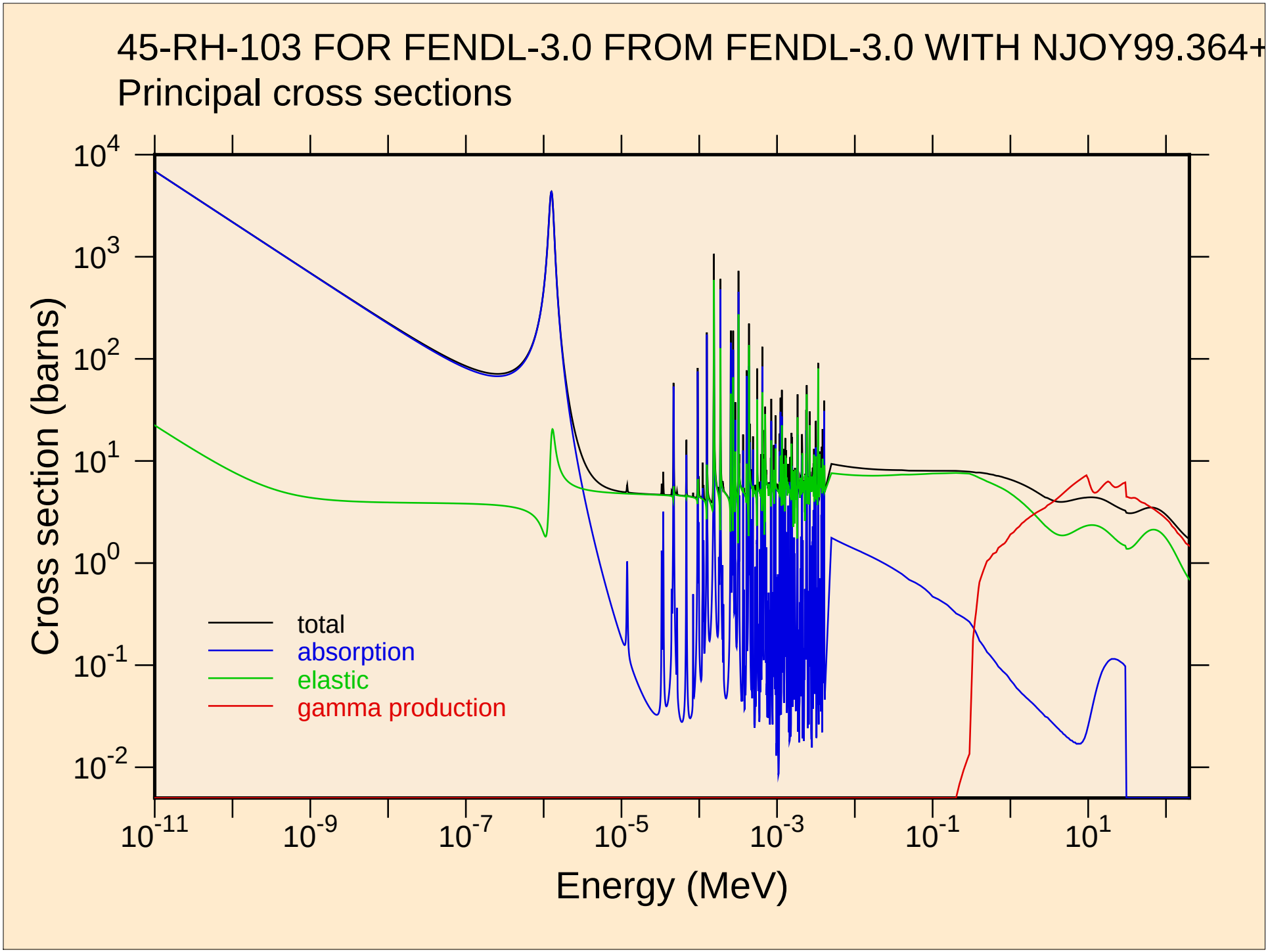
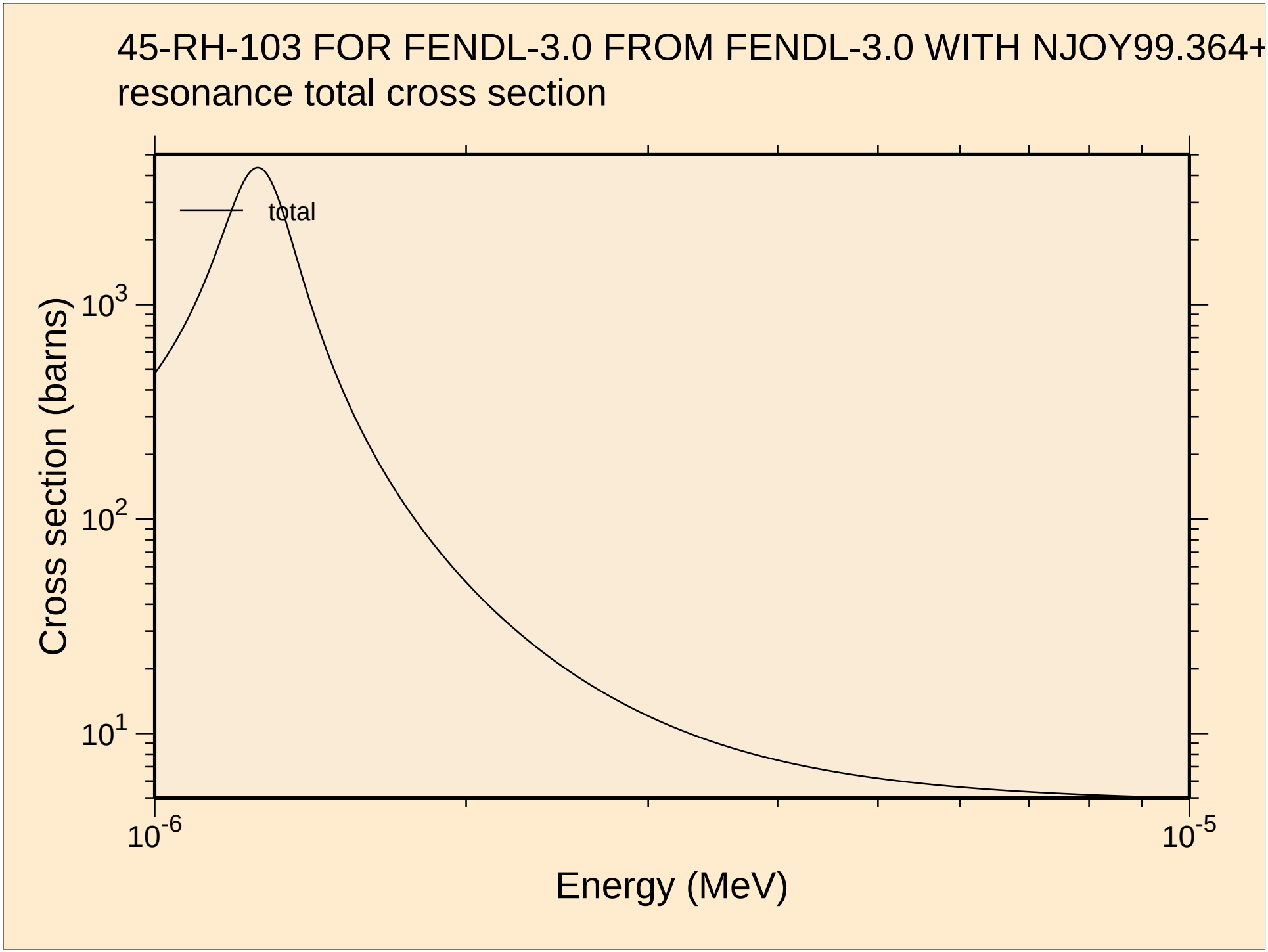
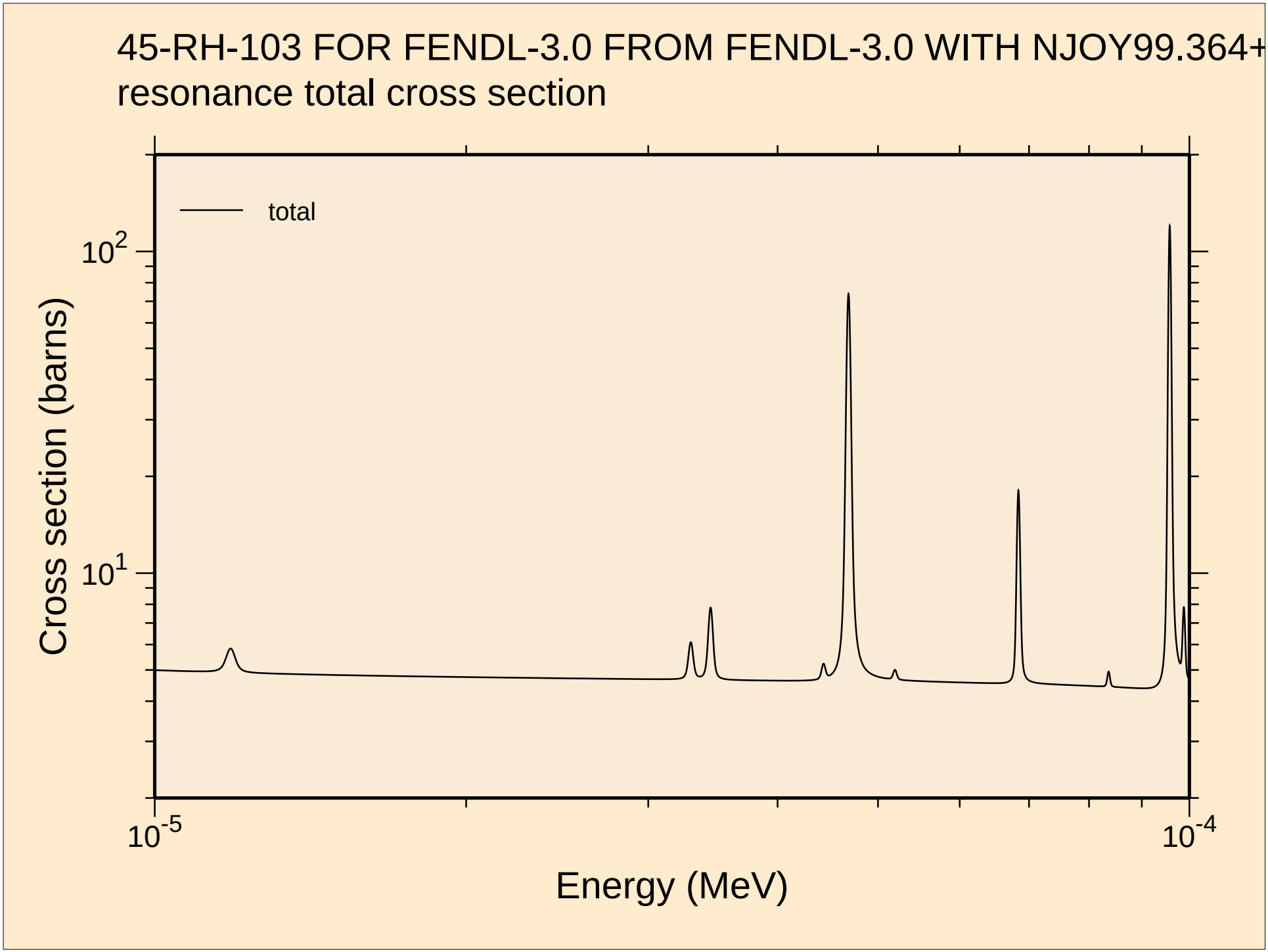
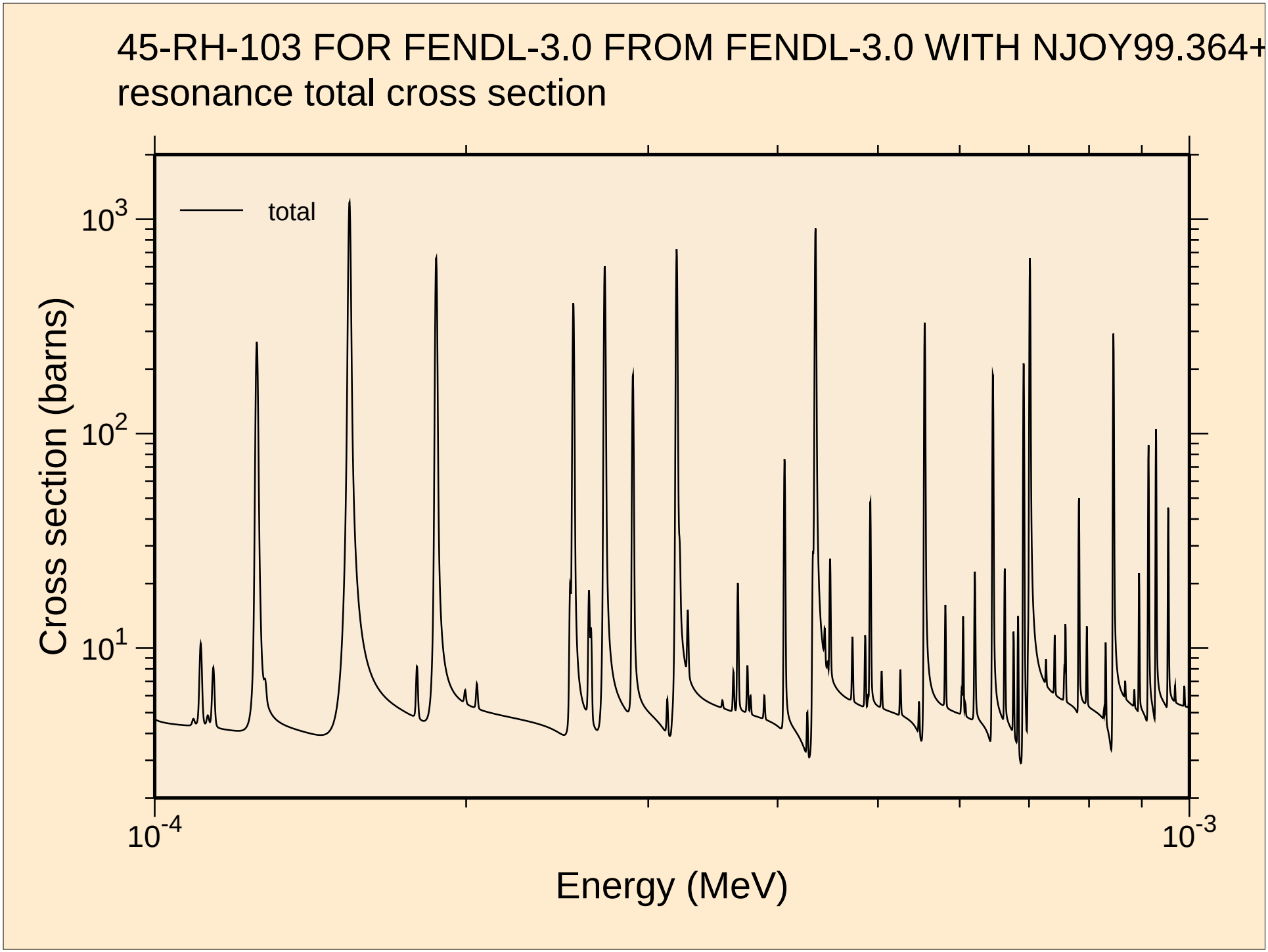
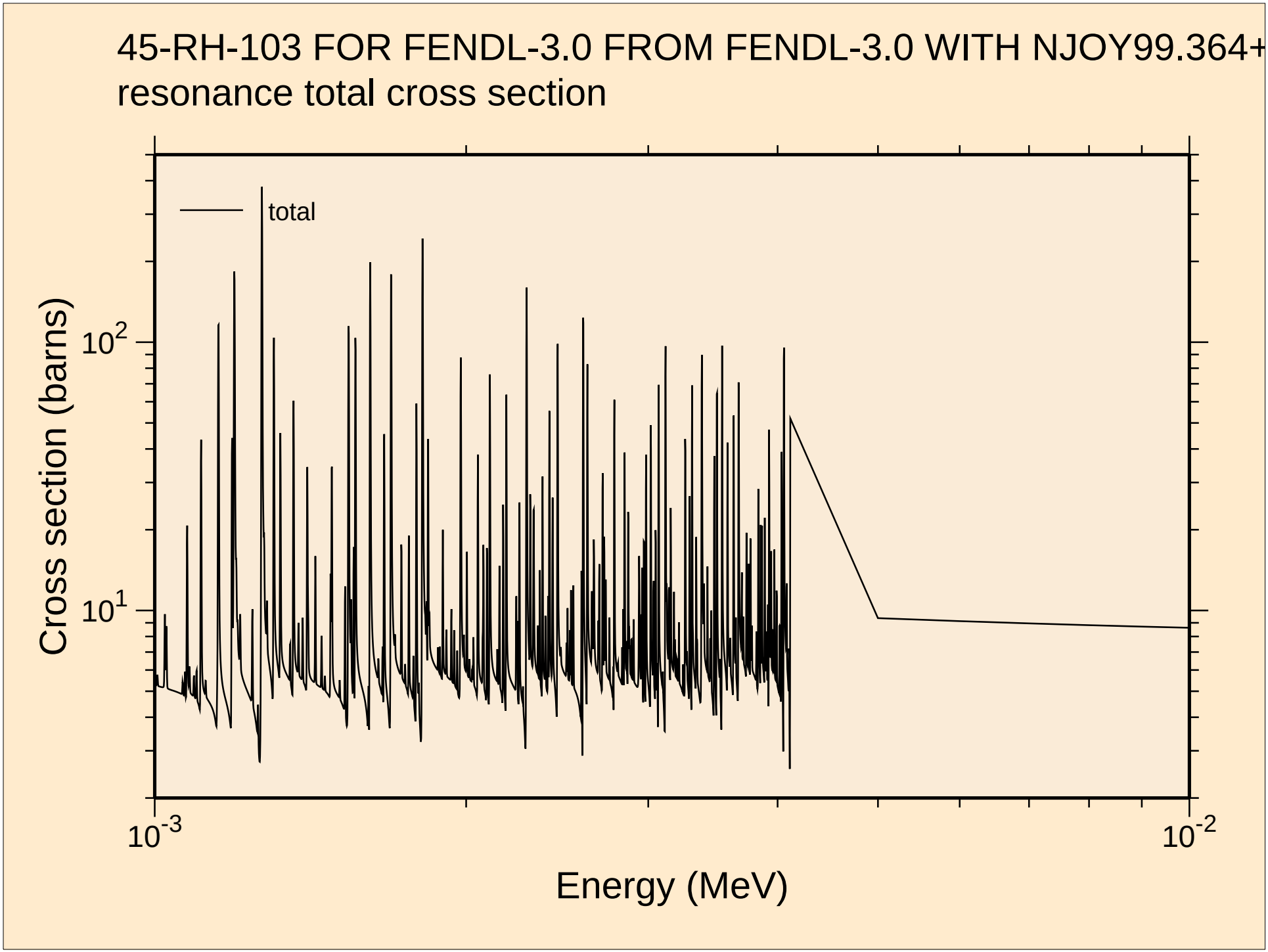
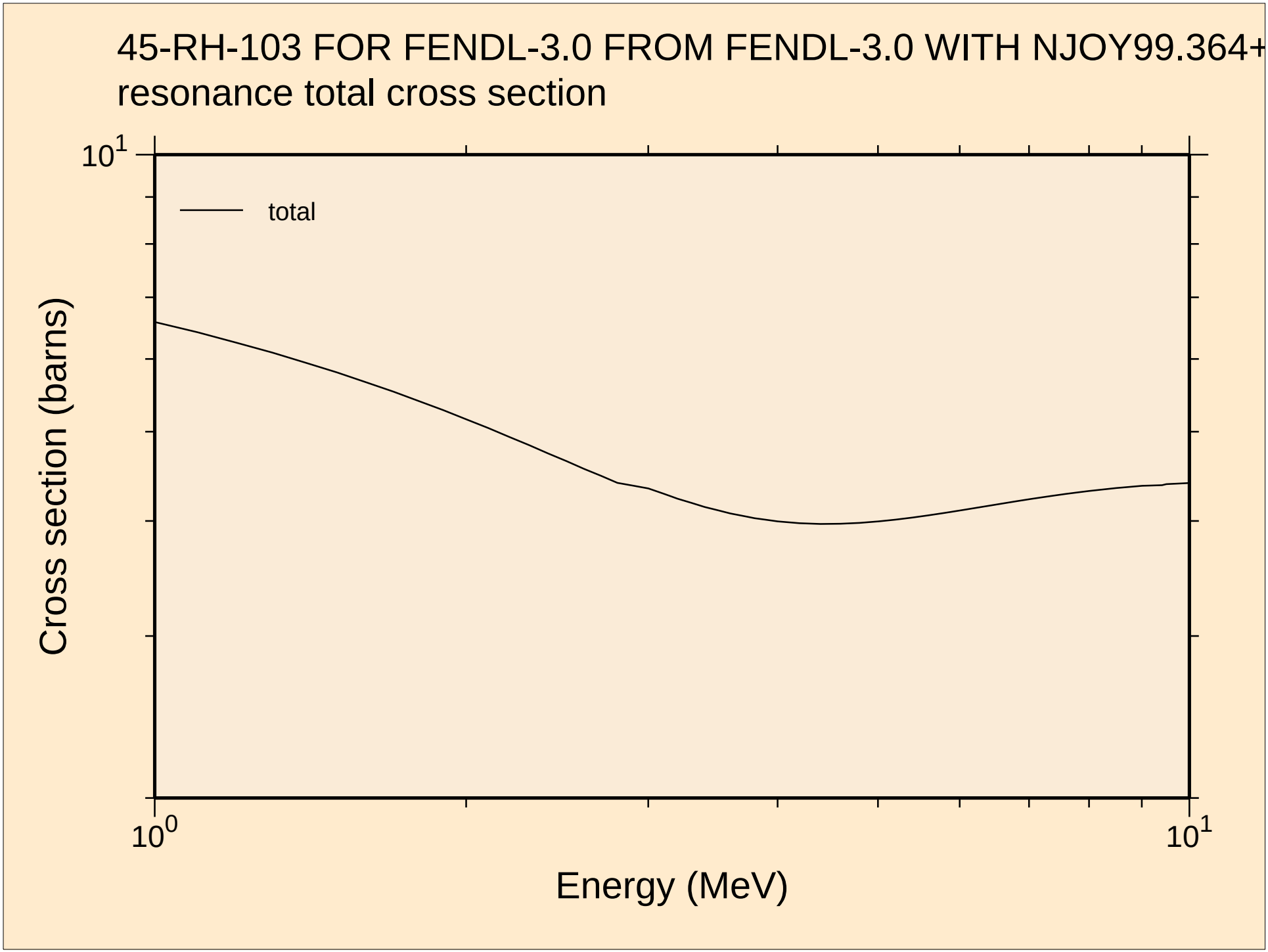

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production

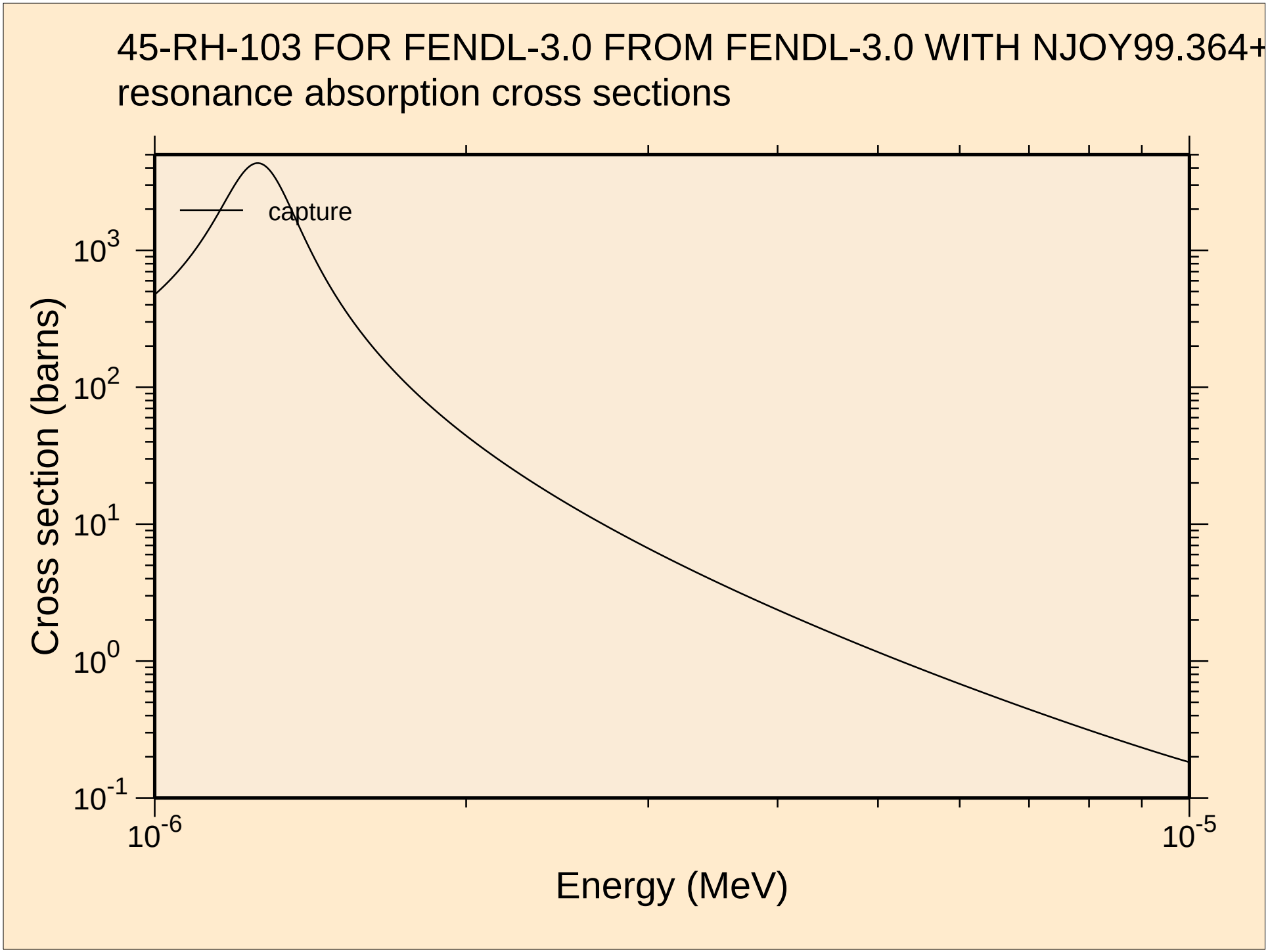

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^-6
10^-5
Energy (MeV)

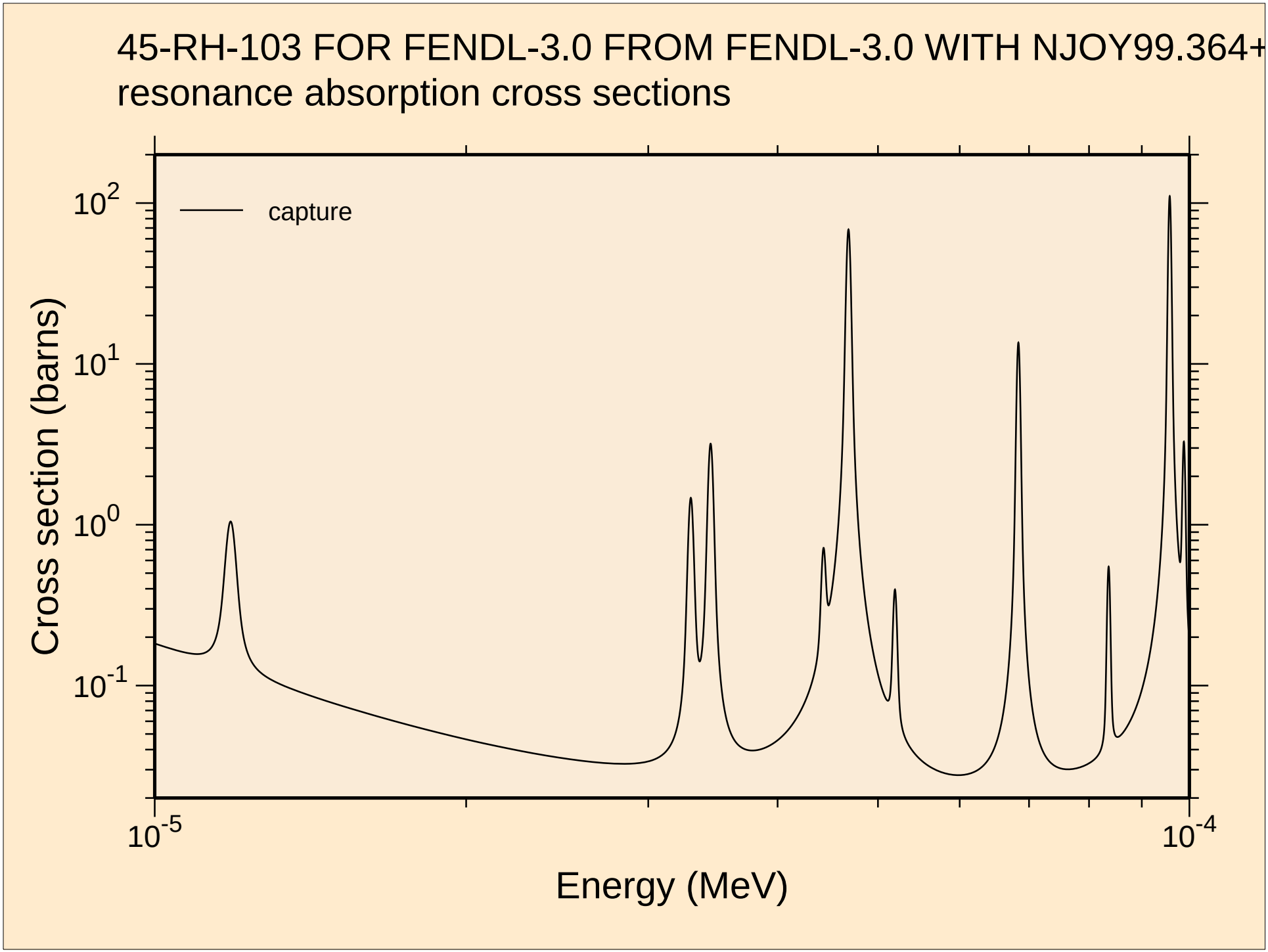

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^2
10^1
10^-5
10^-4
Energy (MeV)

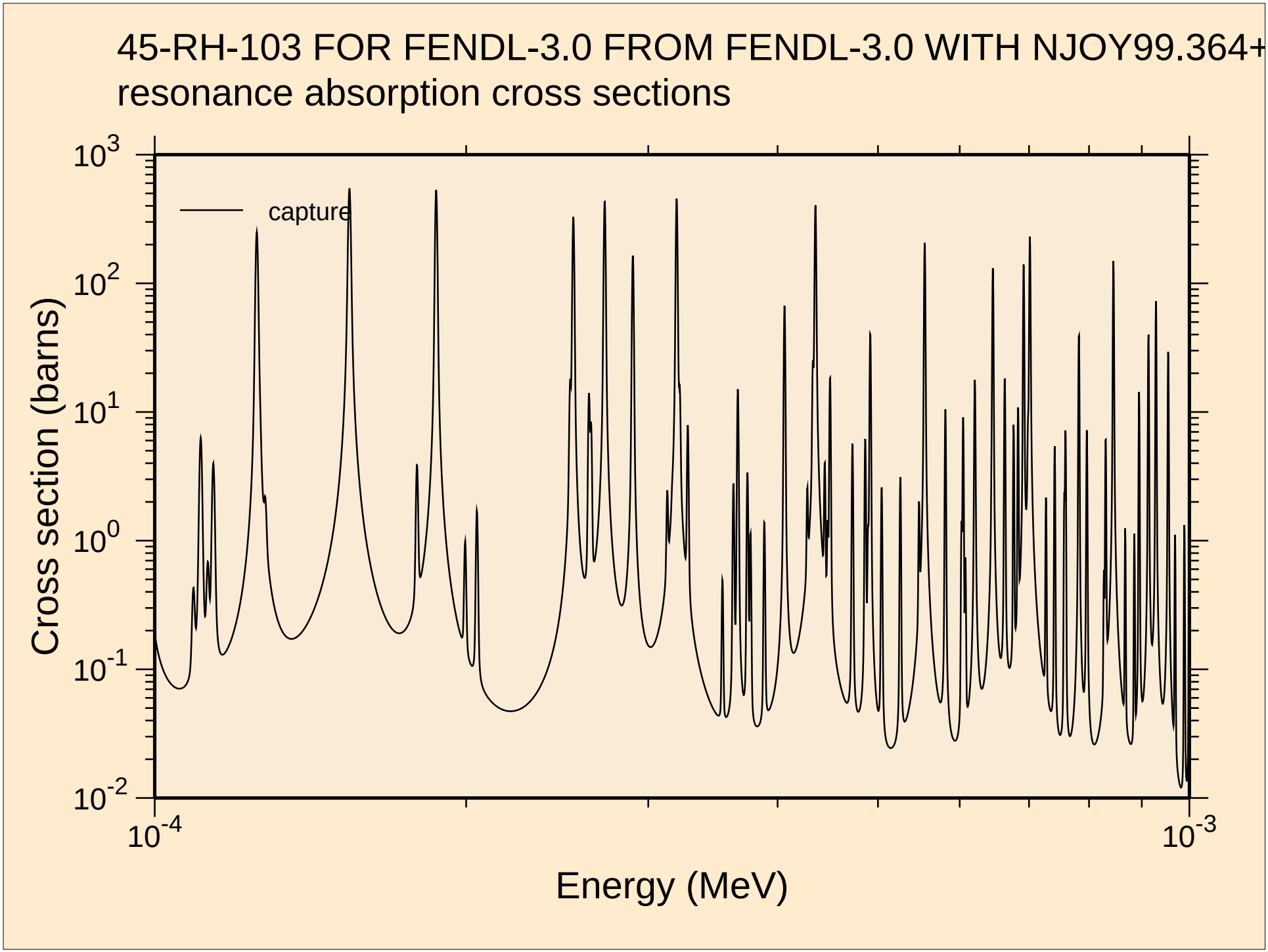

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^-4
10^-3
Energy (MeV)

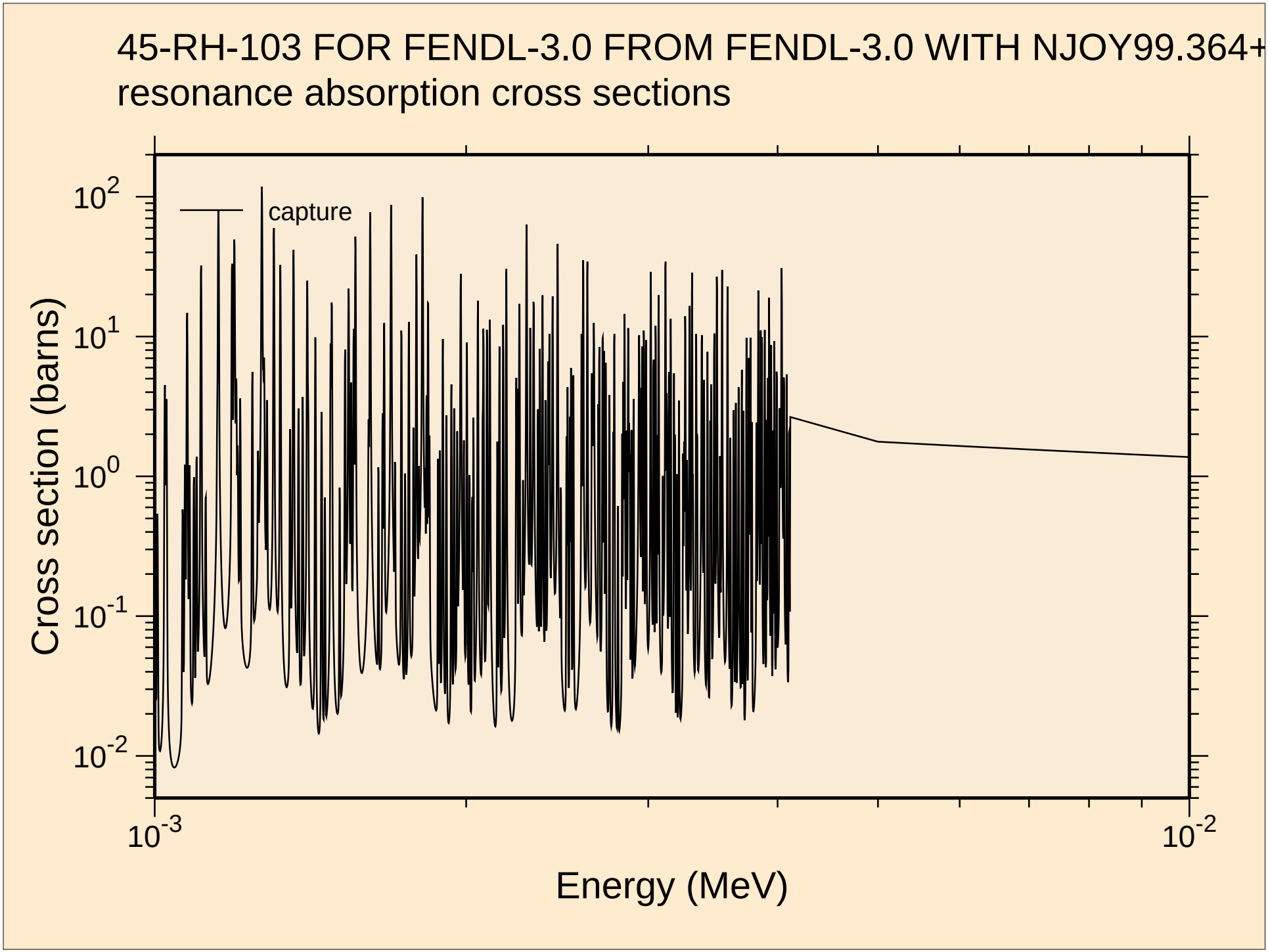

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^2
10^1
10^-3
10^-2
Energy (MeV)

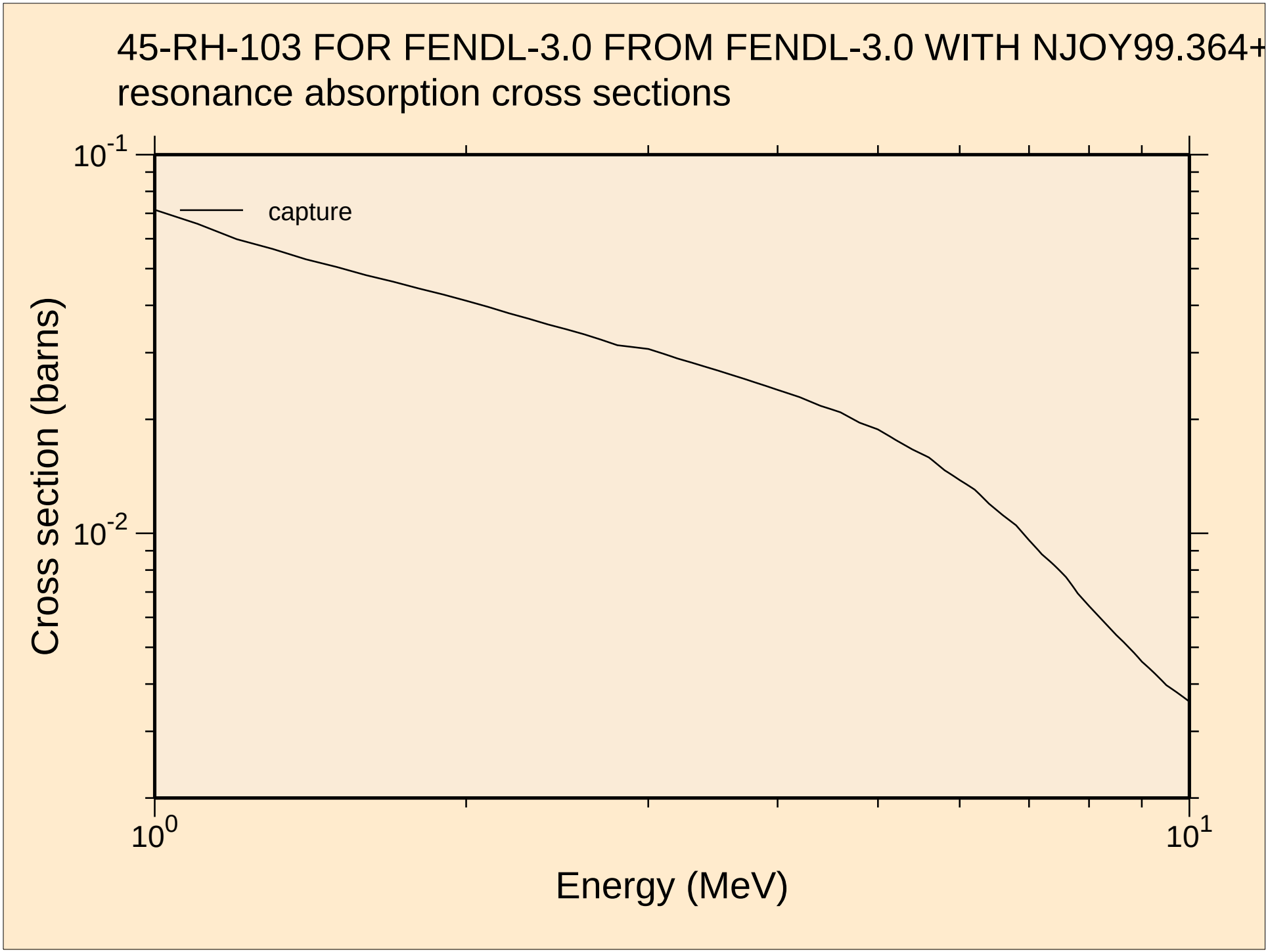

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
resonance total cross section
10^1
total
Cross section (barns)
10^0
10^1
Energy (MeV)

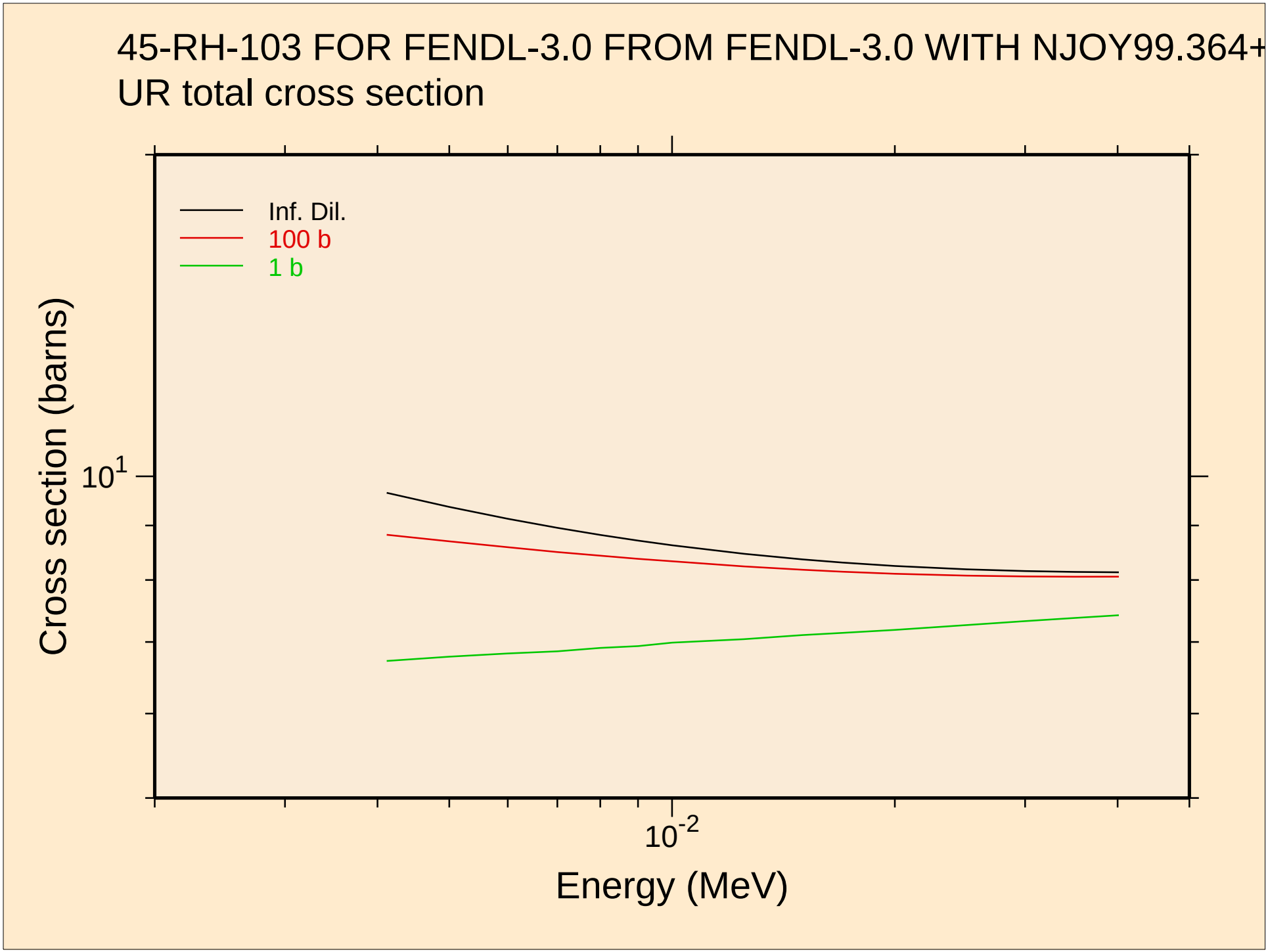

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-6
10^-5
Energy (MeV)

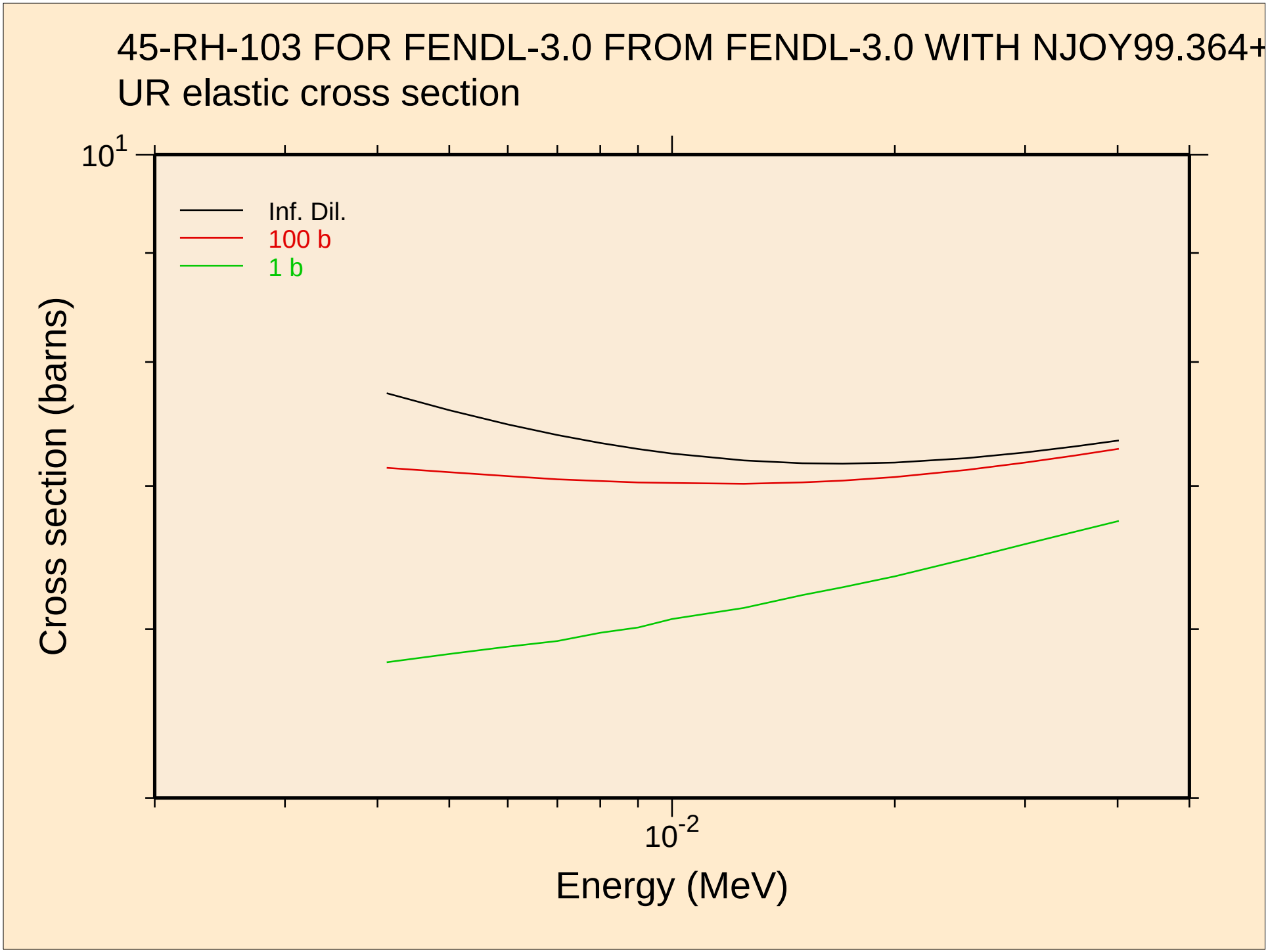

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^2
10^1
10^0
10^-1
10^-5
10^-4
Energy (MeV)

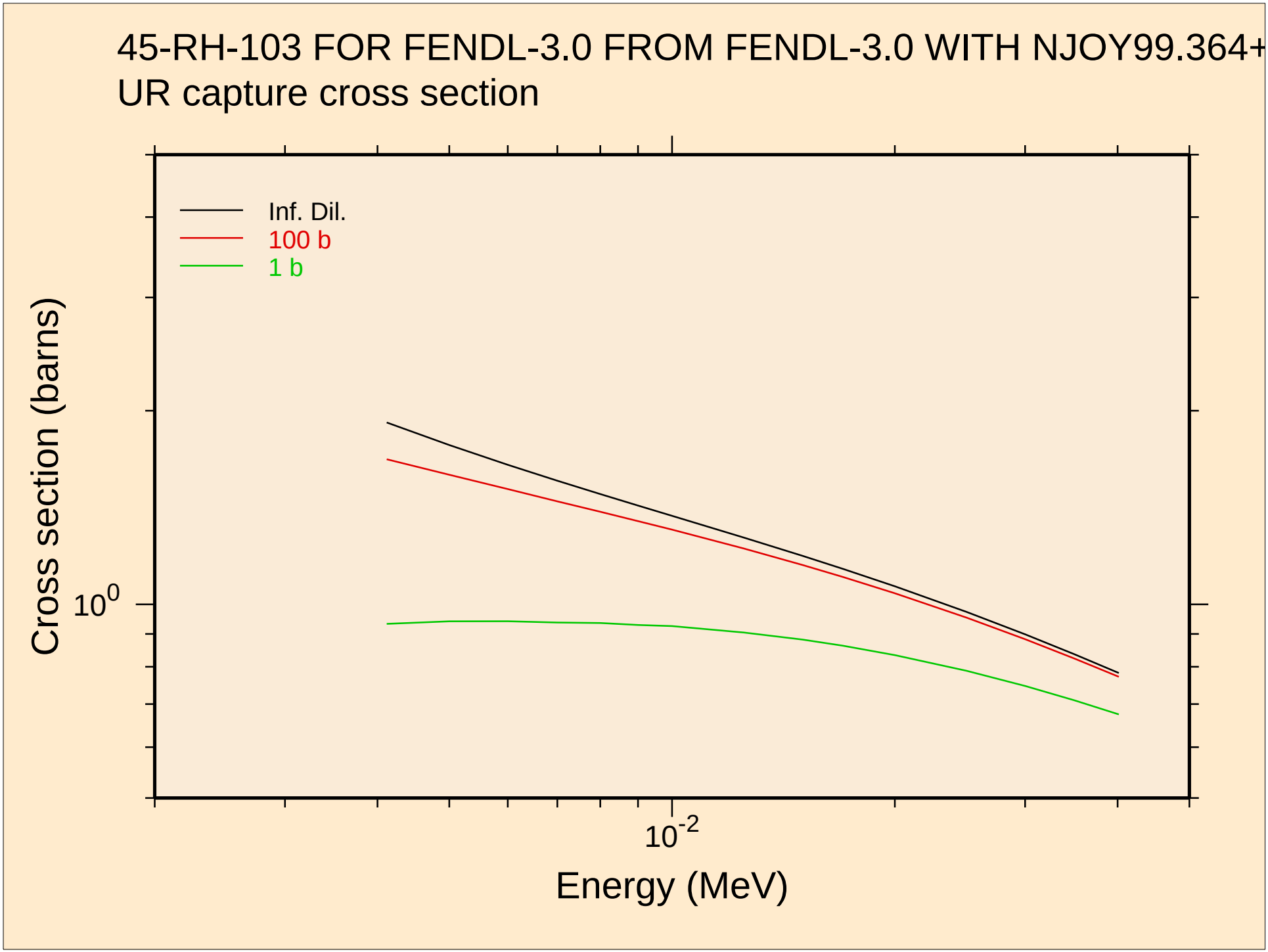

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-4
10^-3
Energy (MeV)

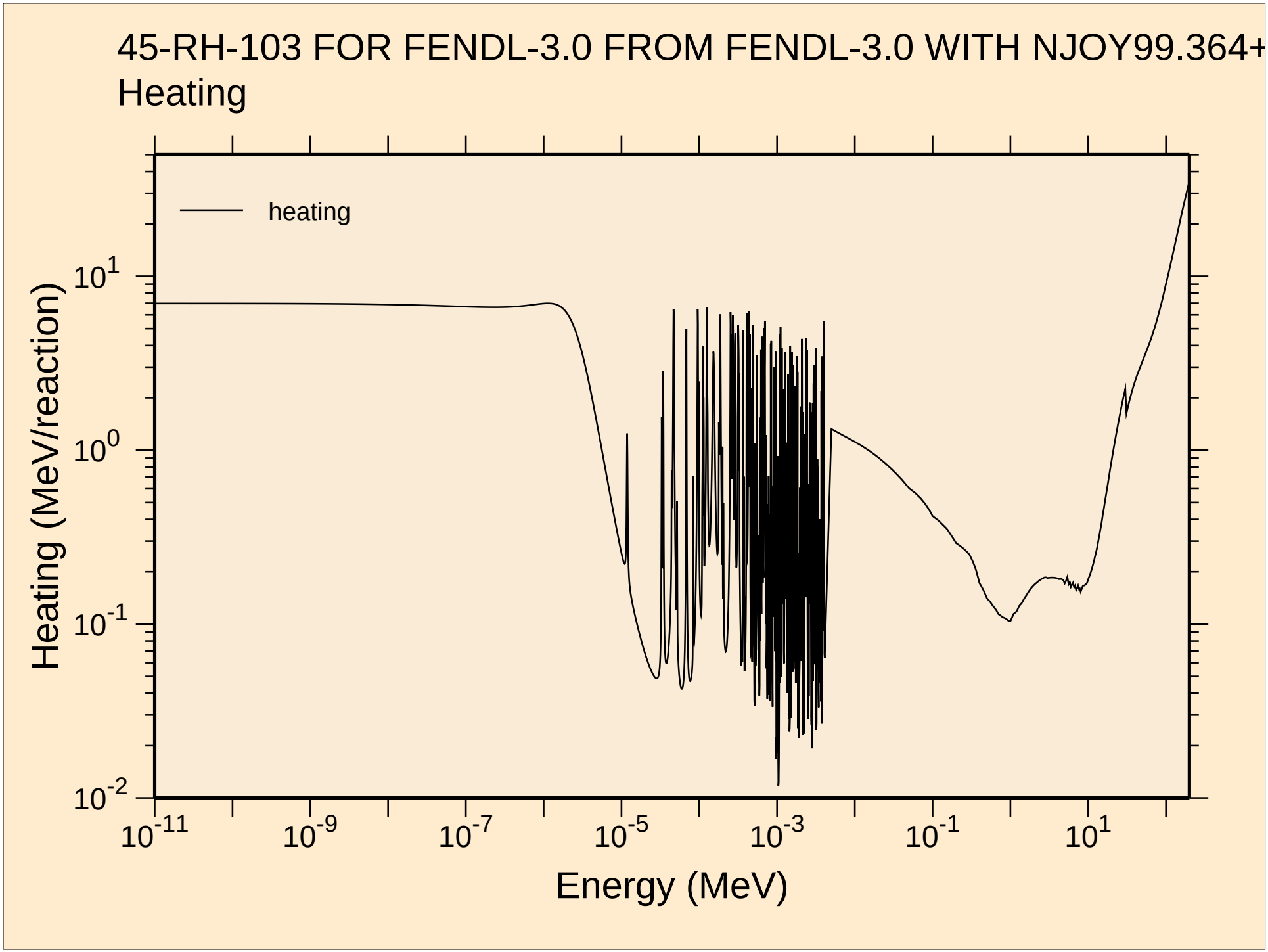

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-2
Energy (MeV)

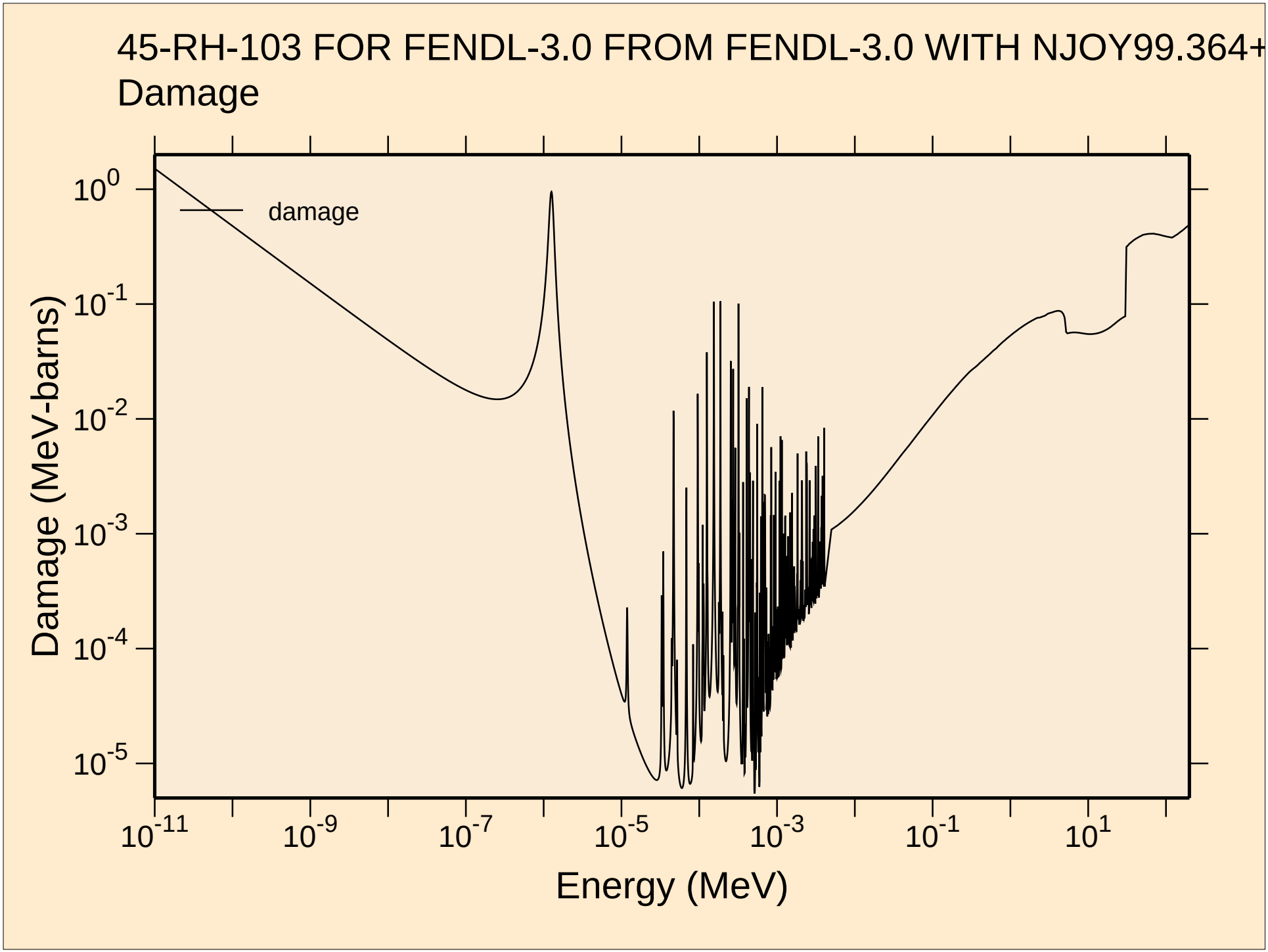

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10-1
10-2
100
101
Energy (MeV)

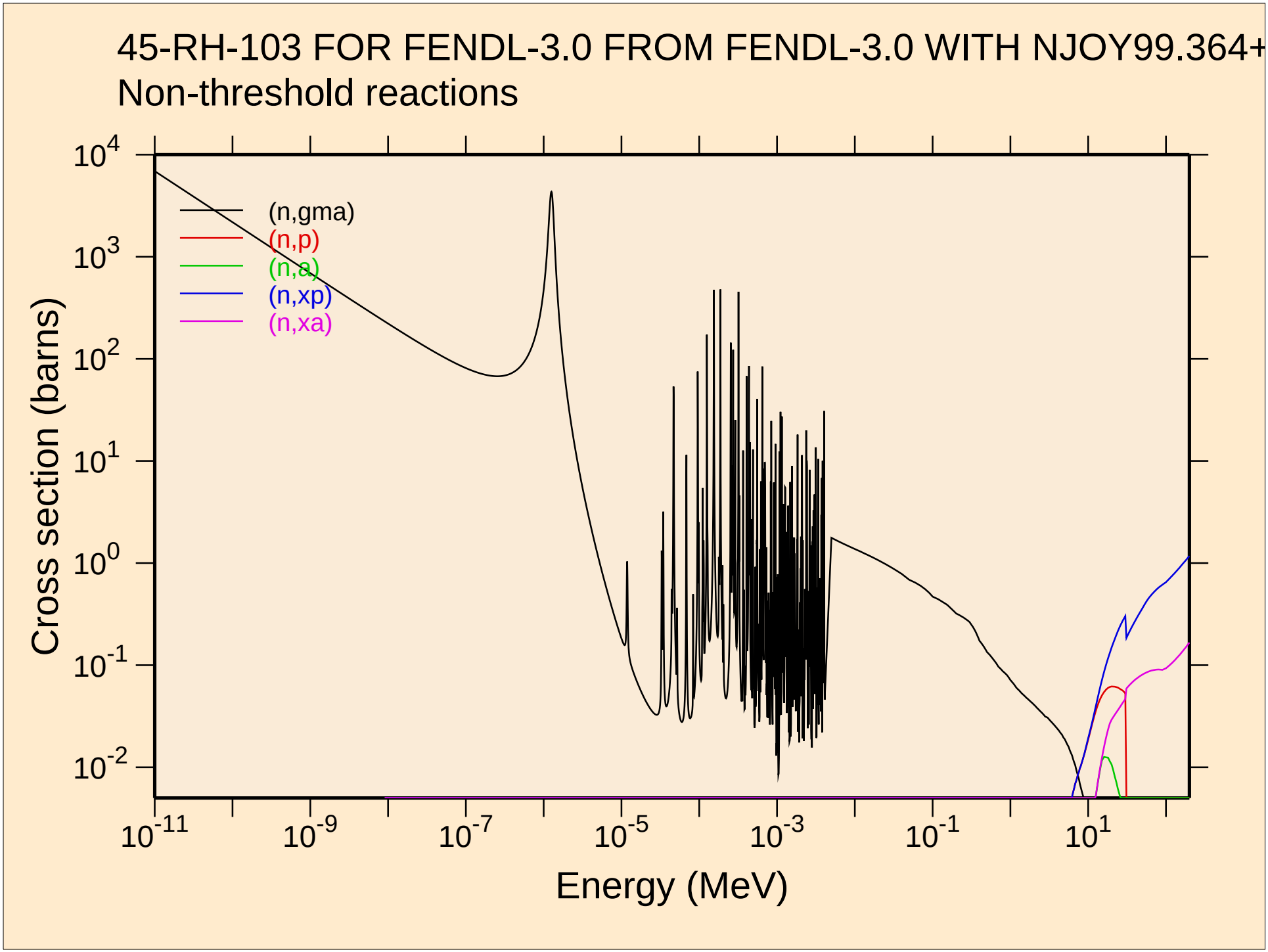

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
UR total cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^1
10^-2
Energy (MeV)

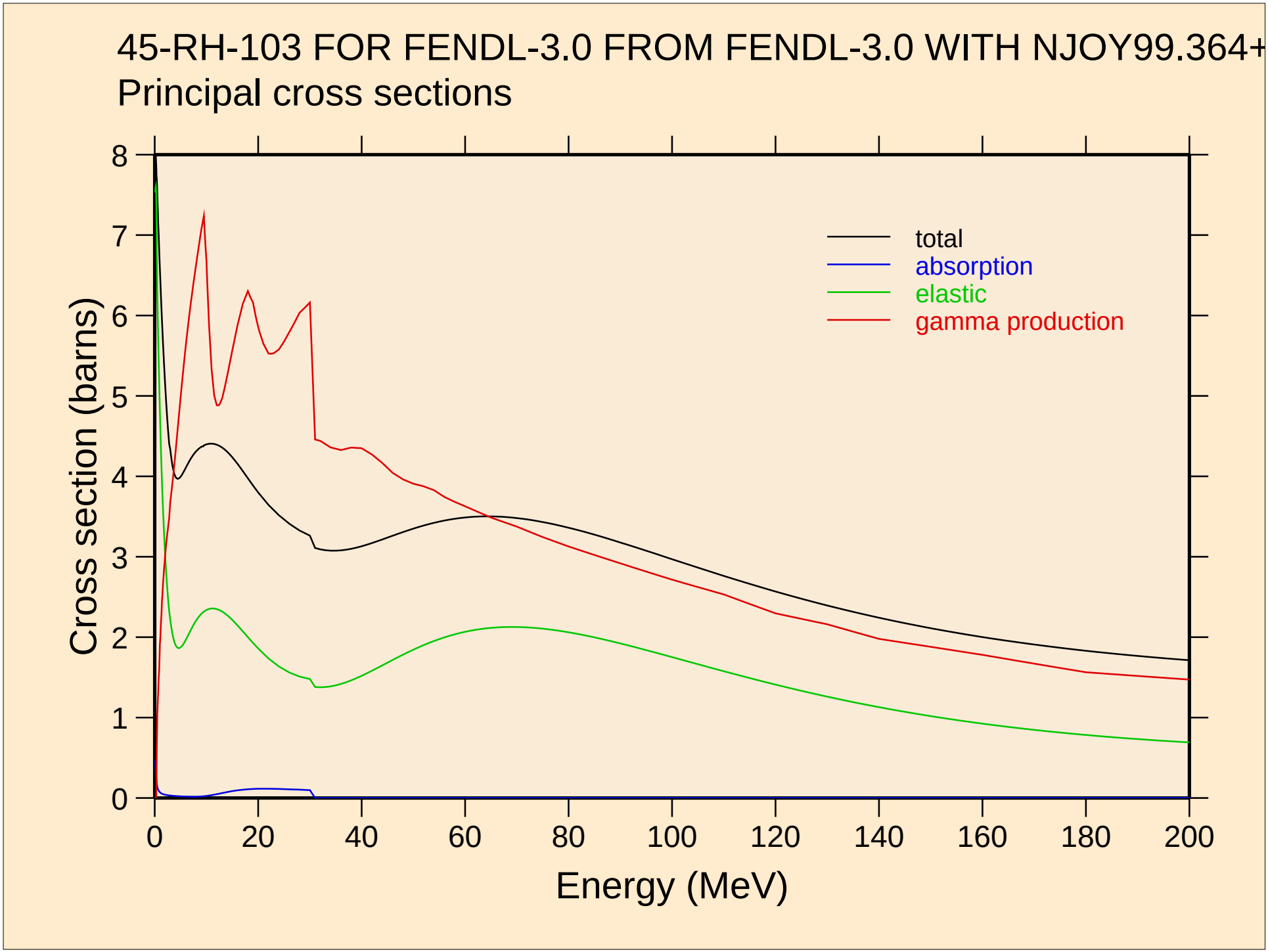

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
UR elastic cross section
10^1
Inf. Dil.
100 b
1 b
Cross section (barns)
10^{-2}
Energy (MeV)

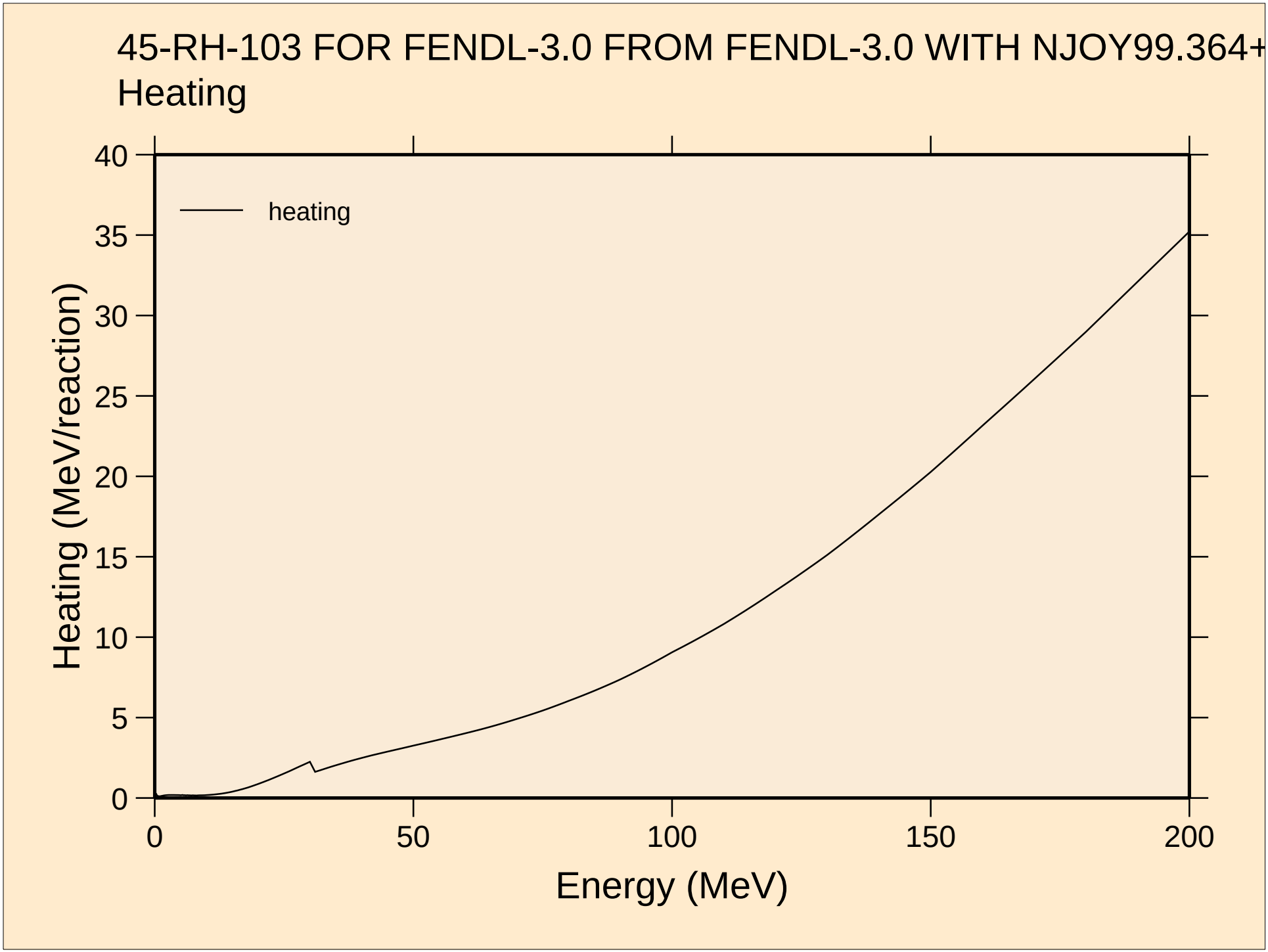

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
UR capture cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^0
10^-2
Energy (MeV)

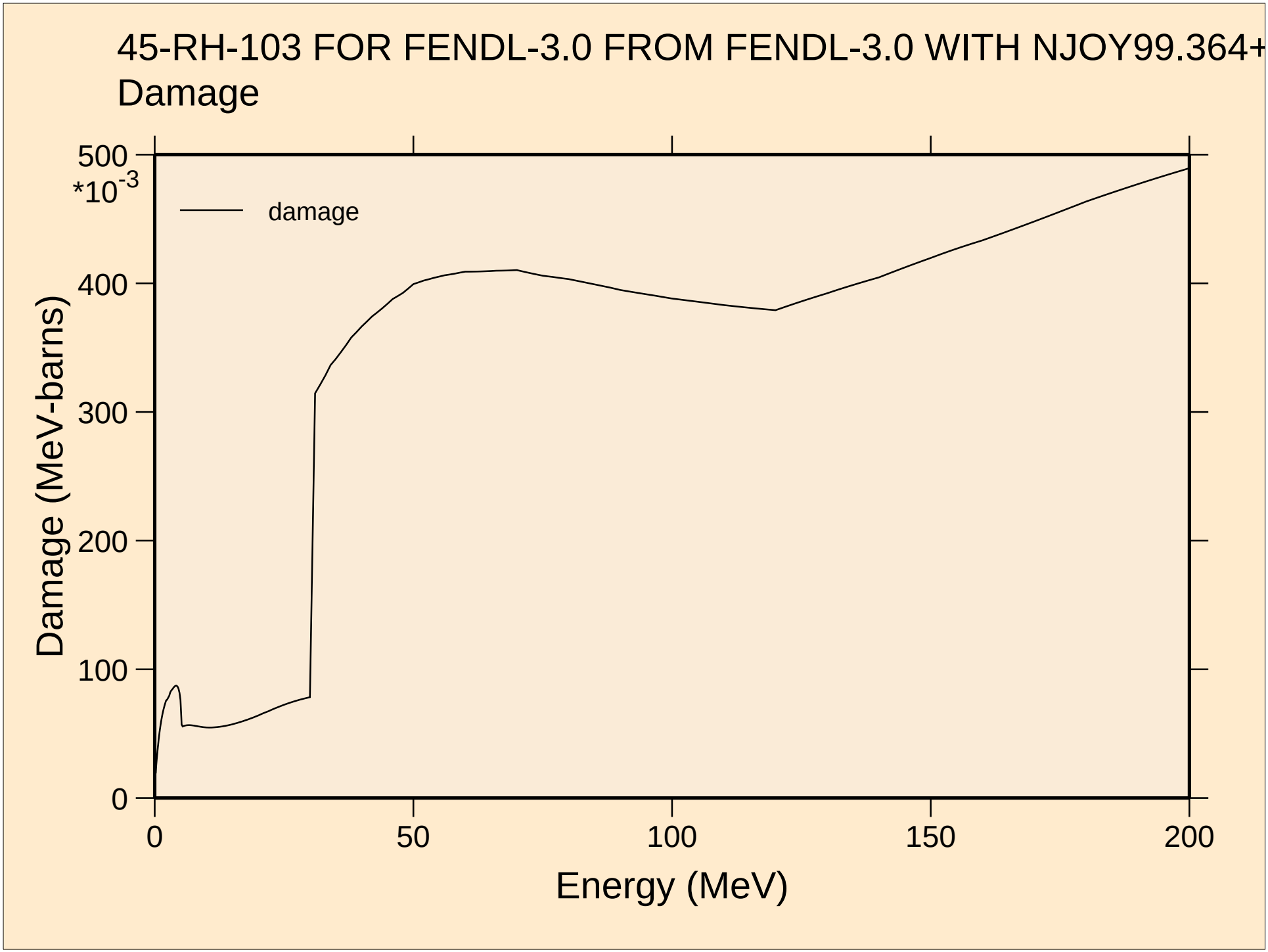

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Heating
heating
Heating (MeV/reaction)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

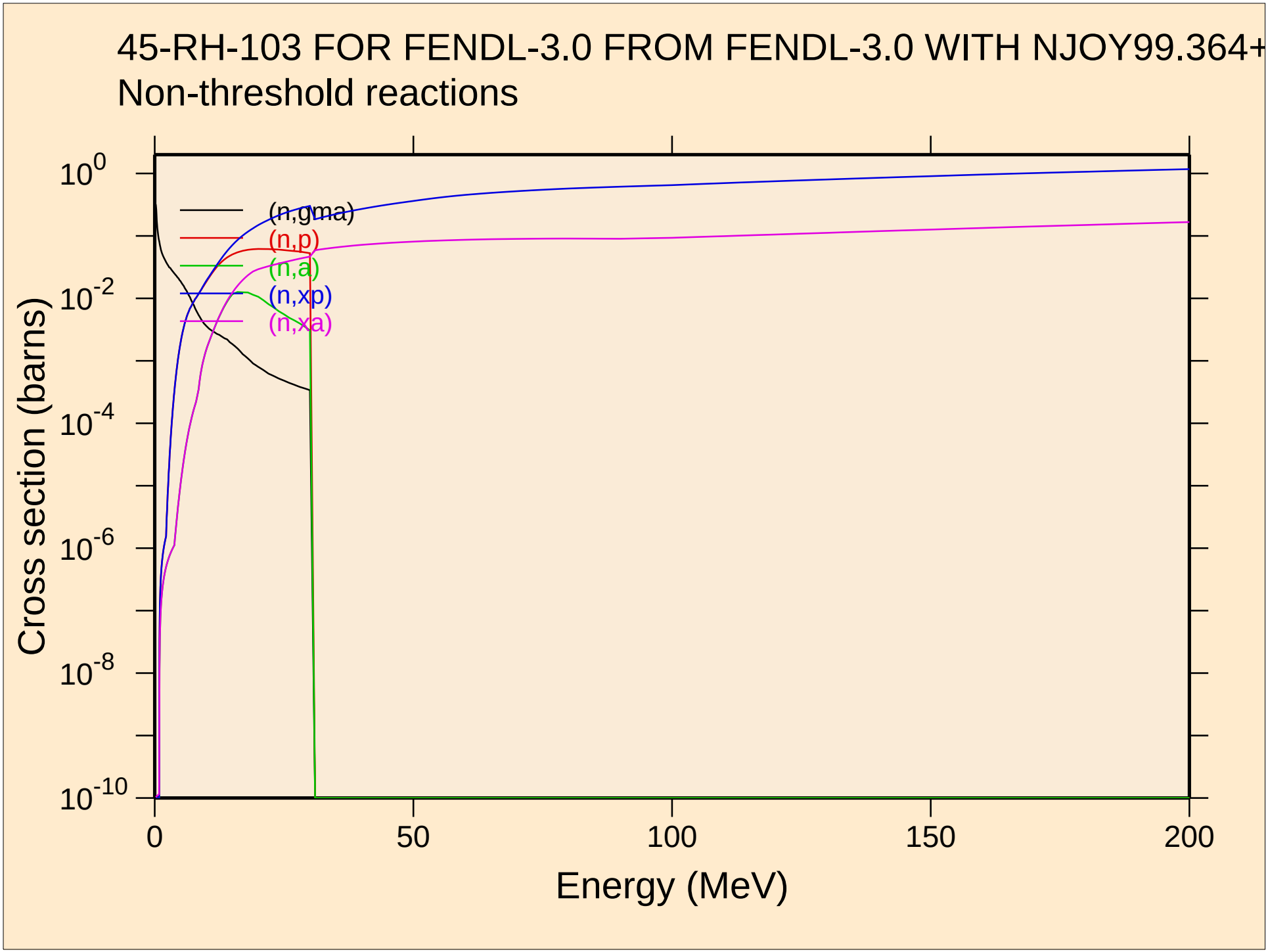

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Damage
damage
Damage (MeV-barns)
Energy (MeV)
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

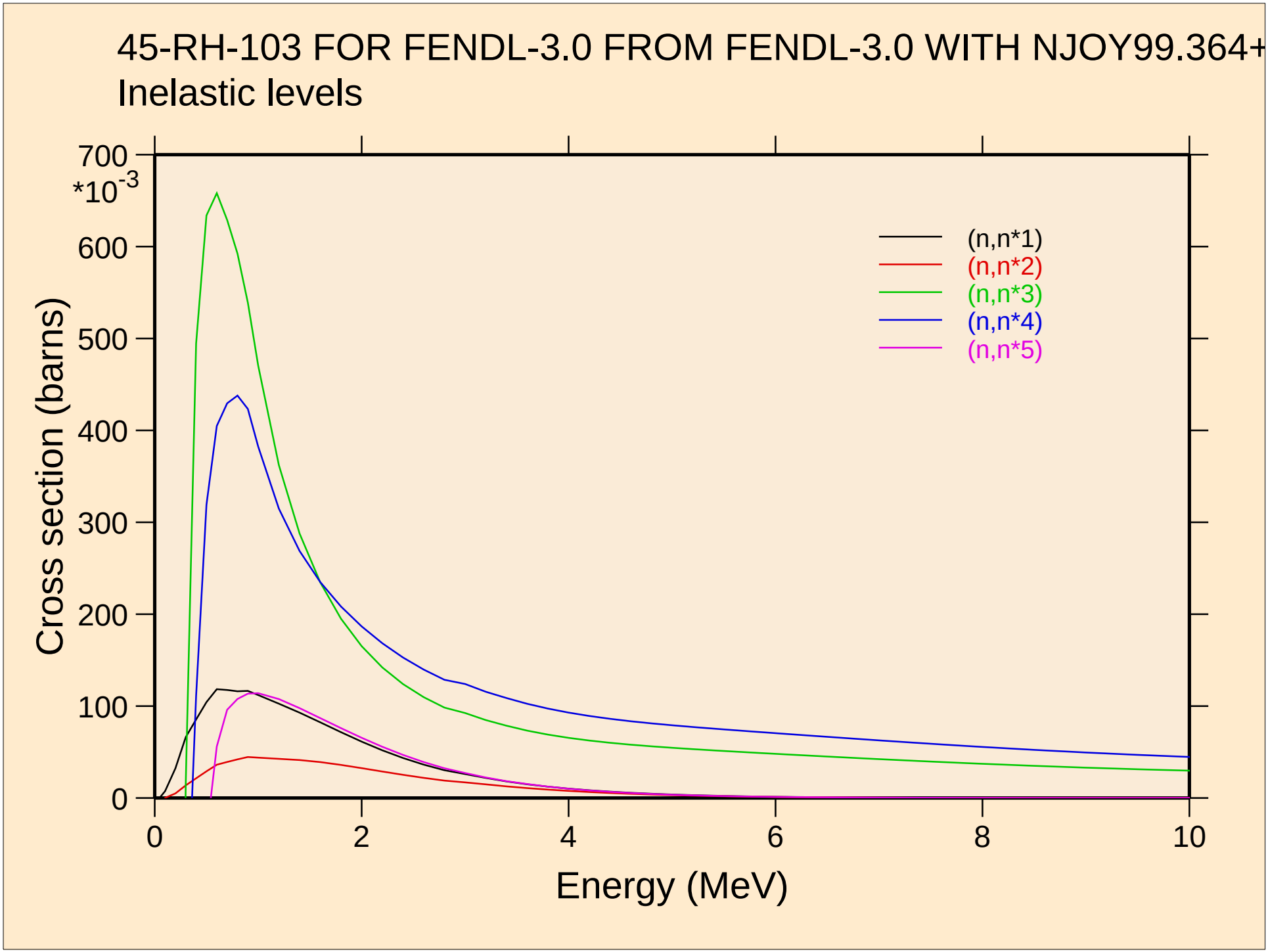

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Non-threshold reactions
(n,gma)
(n,p)
(n,a)
(n,xp)
(n,xa)
Cross section (barns)
Energy (MeV)
10^4
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

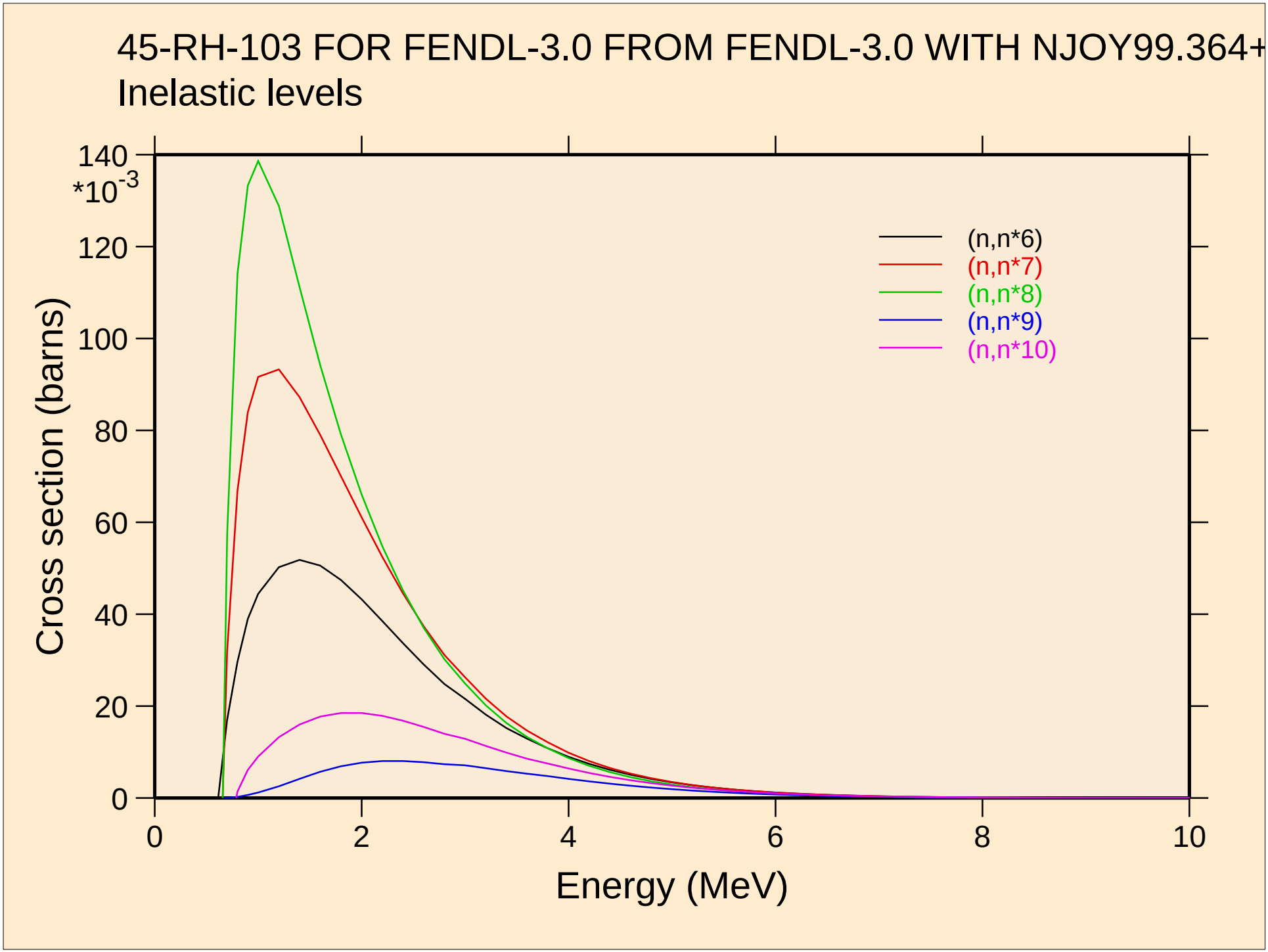

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production
0
1
2
3
4
5
6
7
8
0
20
40
60
80
100
120
140
160
180
200

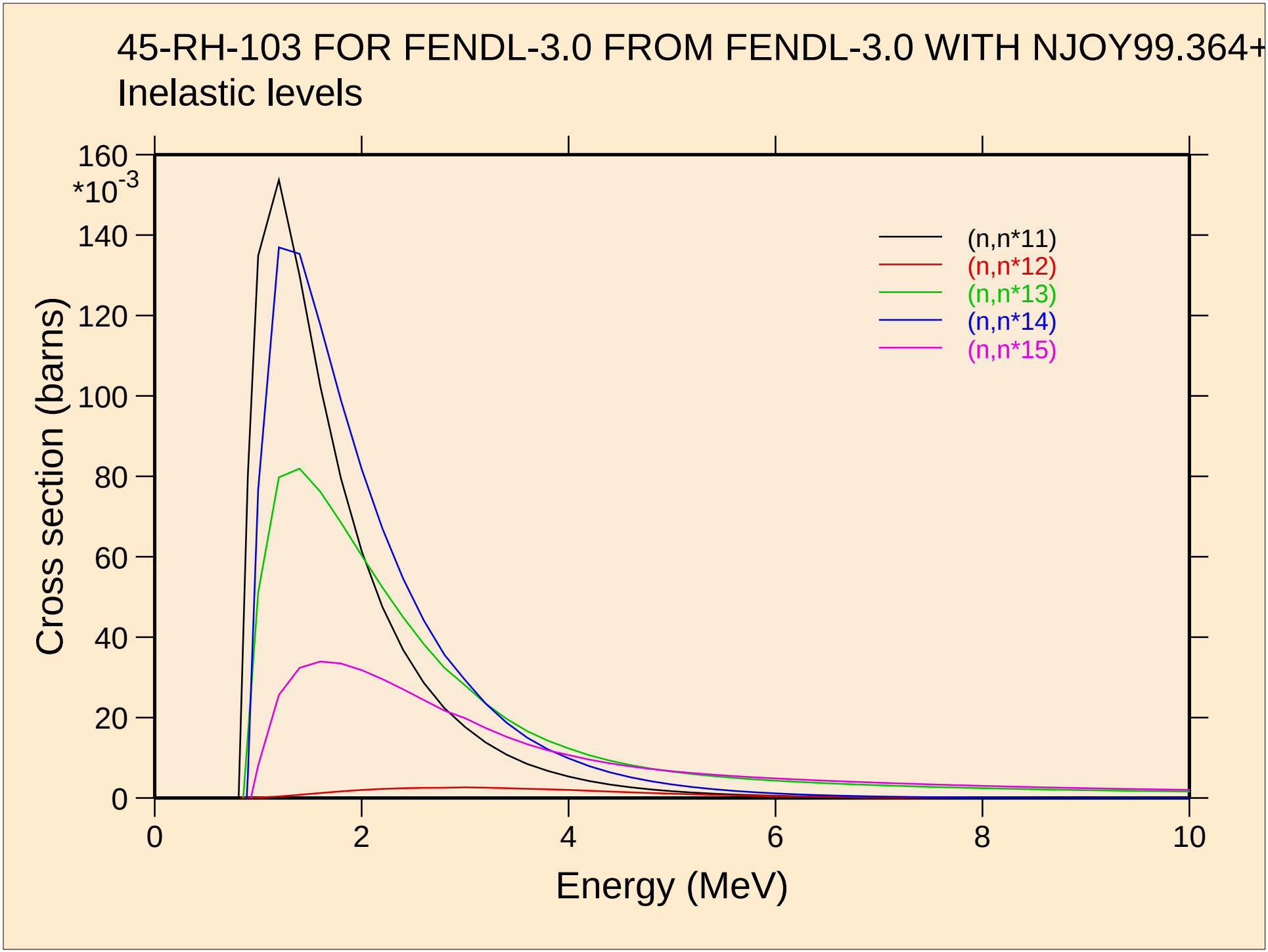

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
5
10
15
20
25
30
35
40
0
50
100
150
200

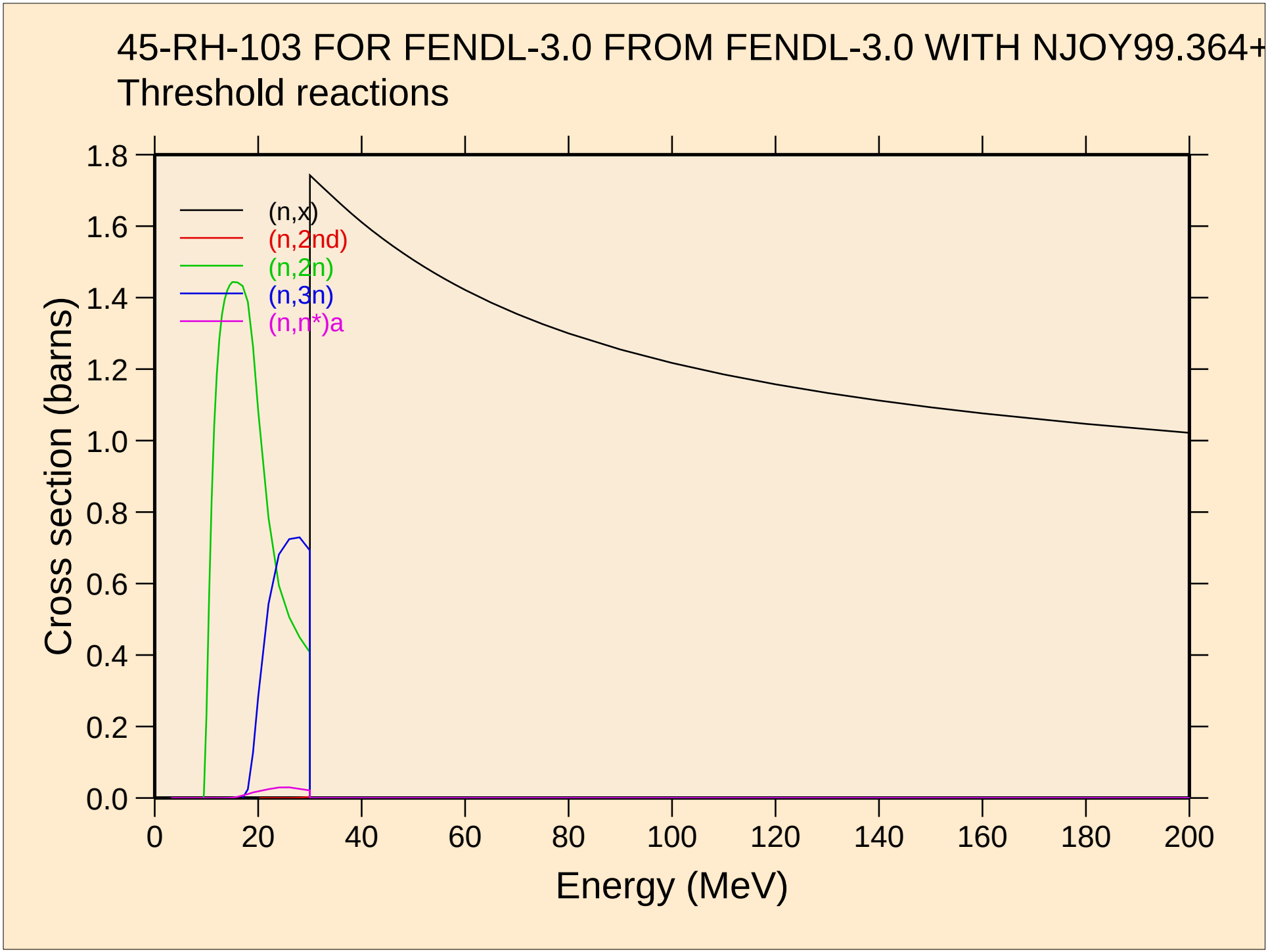

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Damage
500
*10-3
400
300
200
100
0
damage
Damage (MeV-barns)
0
50
100
150
200
Energy (MeV)

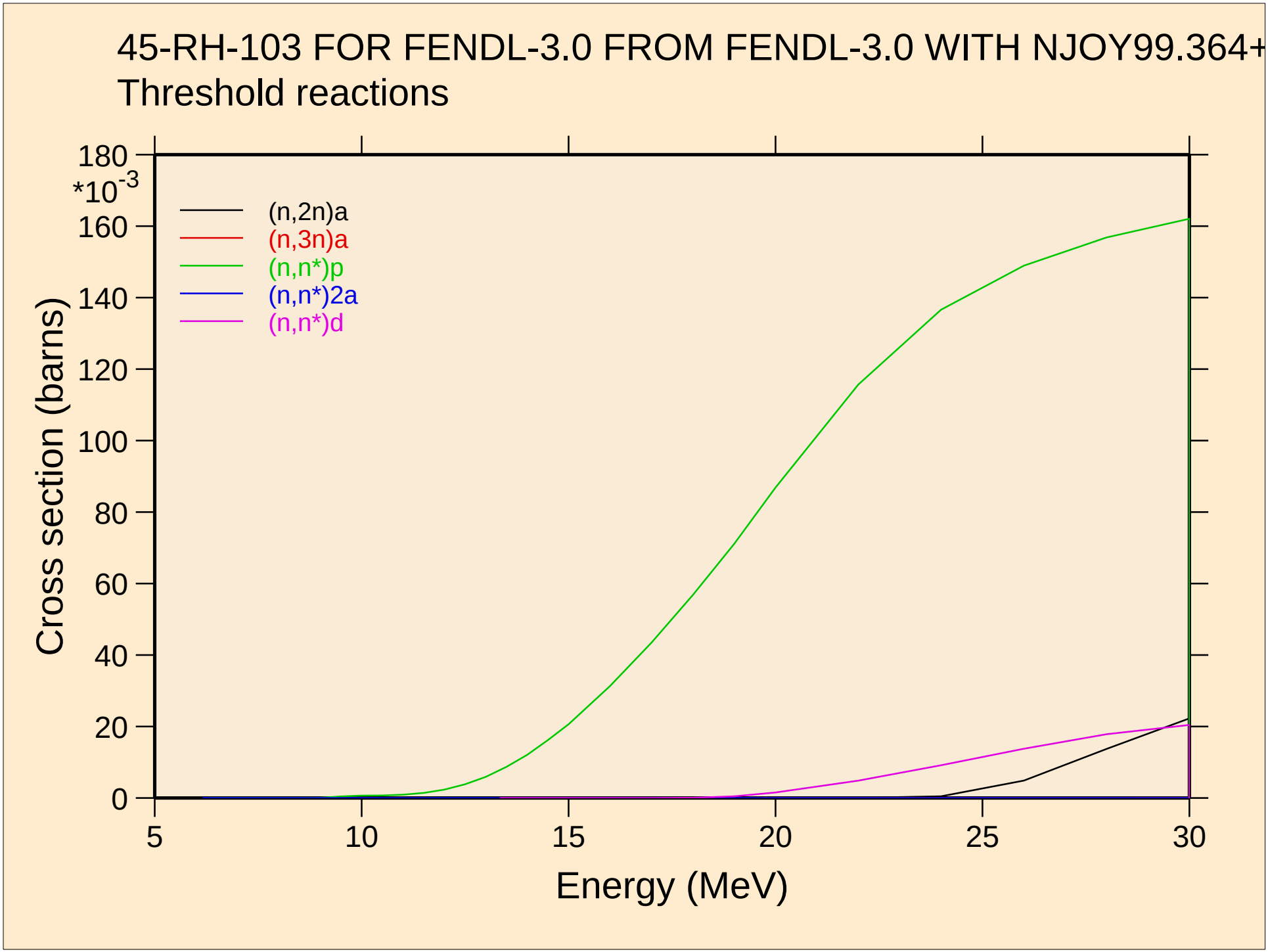

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Non-threshold reactions
Cross section (barns)
Energy (MeV)
(n,gma)
(n,p)
(n,a)
(n,xp)
(n,xa)
10^0
10^-2
10^-4
10^-6
10^-8
10^-10
0
50
100
150
200

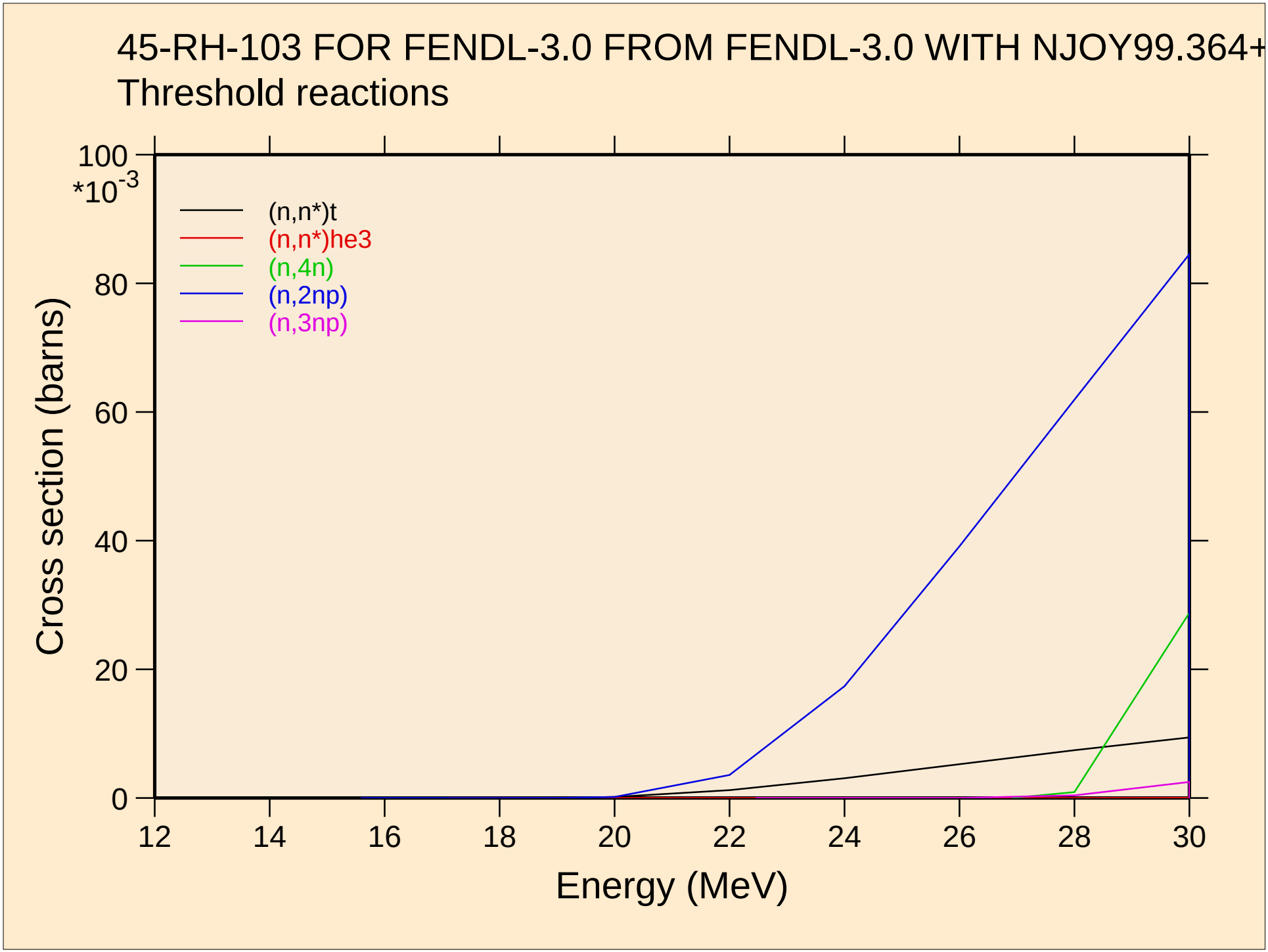

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Inelastic levels
Cross section (barns)
*10-3
700
600
500
400
300
200
100
0
0
2
4
6
8
10
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

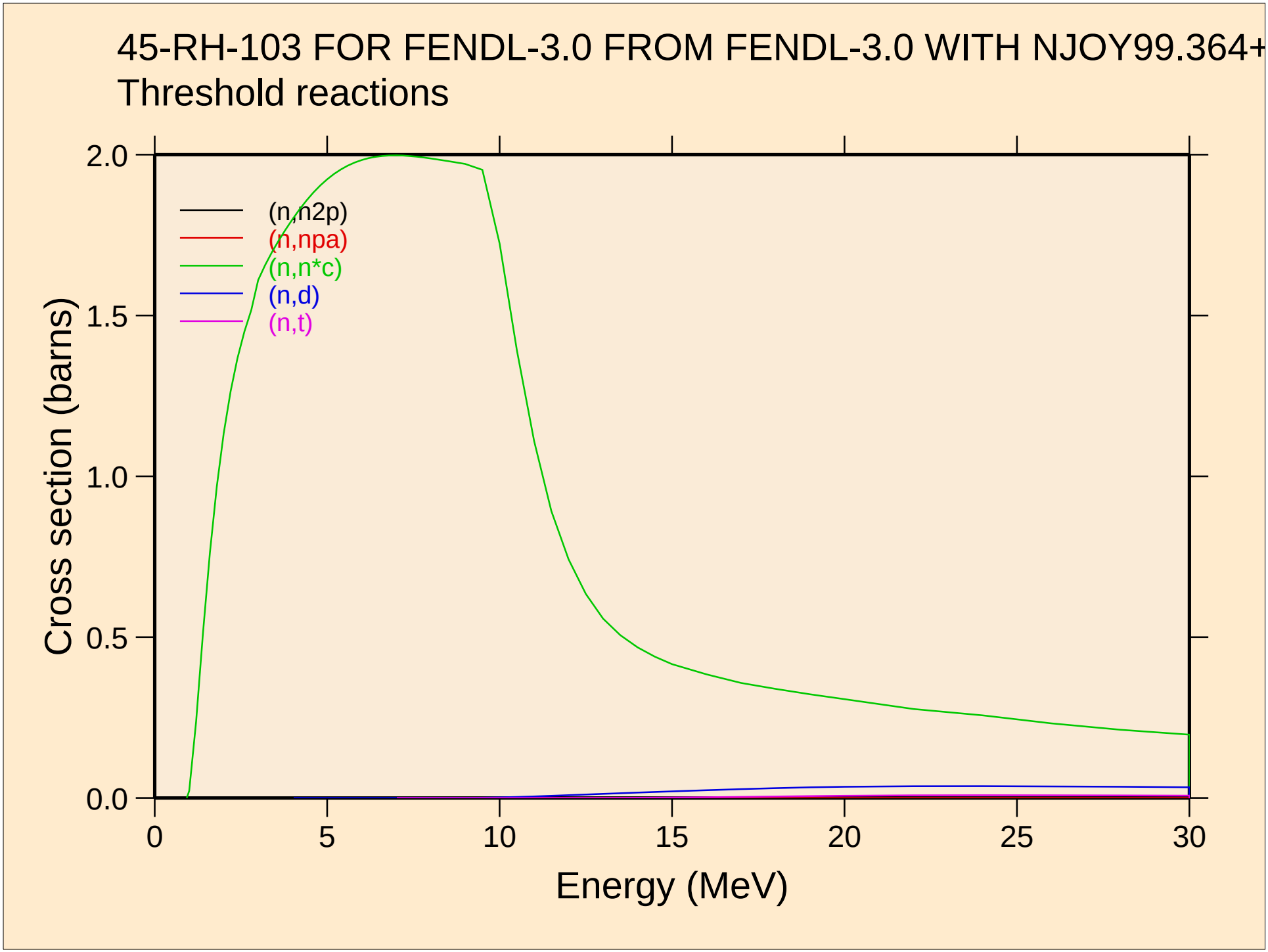

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Inelastic levels
Cross section (barns)
*10-3
140
120
100
80
60
40
20
0
0
2
4
6
8
10
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

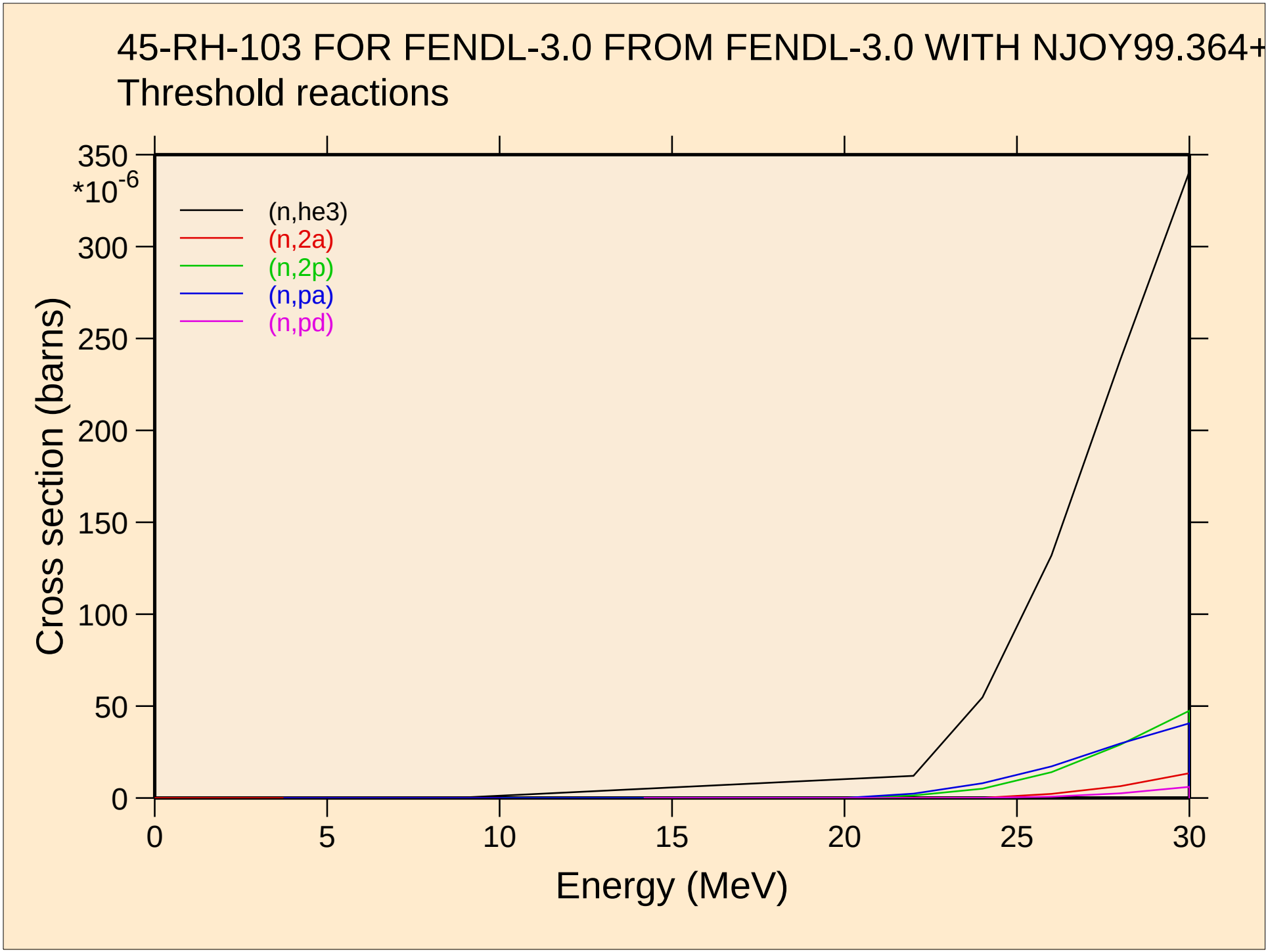

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Inelastic levels
Cross section (barns)
*10-3
160
140
120
100
80
60
40
20
0
0
2
4
6
8
10
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

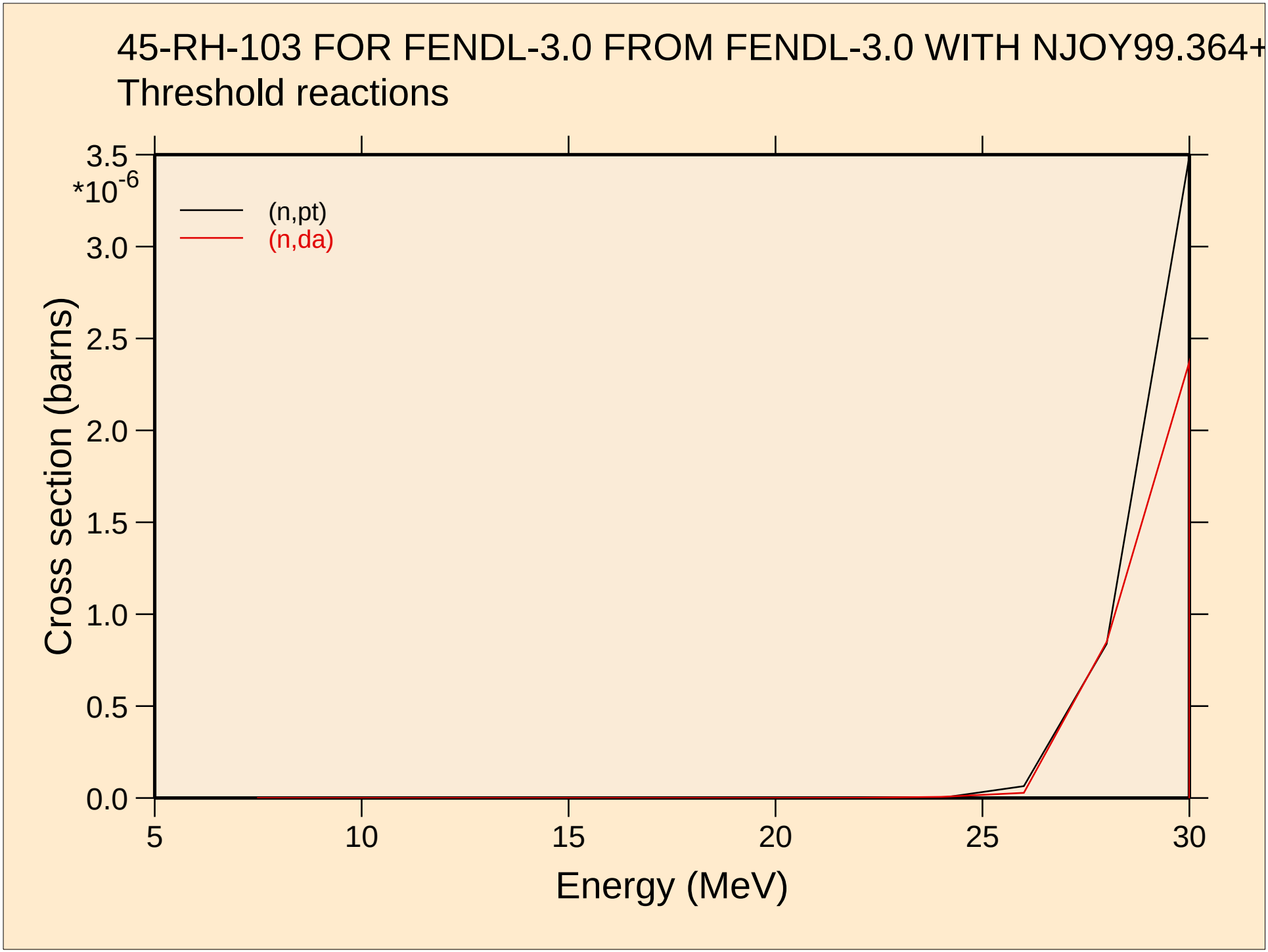

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
Cross section (barns)
Energy (MeV)
(n,x)
(n,2nd)
(n,2n)
(n,3n)
(n,n*)a
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
0
20
40
60
80
100
120
140
160
180
200

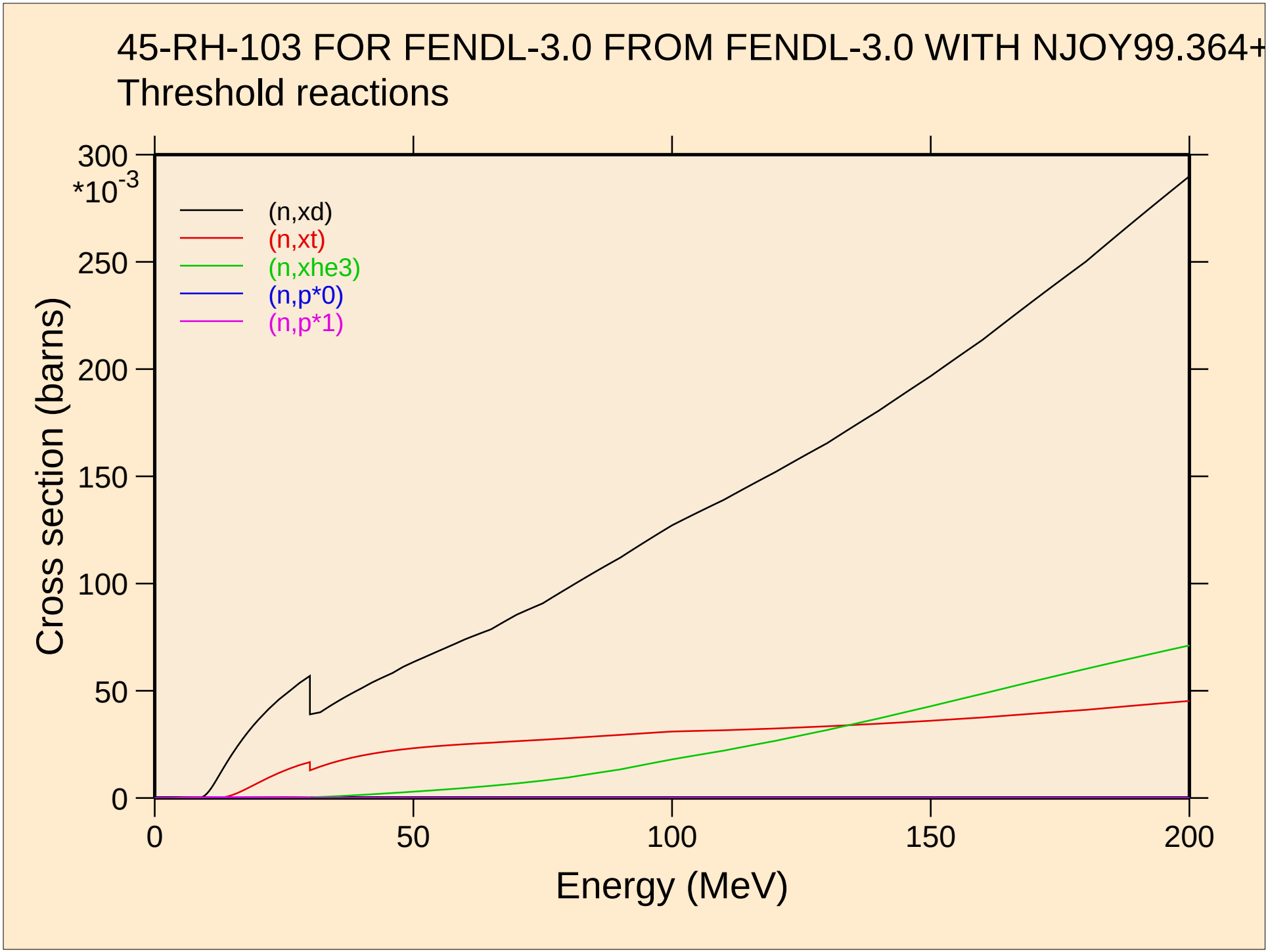

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
Cross section (barns)
*10-3
180
160
140
120
100
80
60
40
20
0
5
10
15
20
25
30
Energy (MeV)
(n,2n)a
(n,3n)a
(n,n*)p
(n,n*)2a
(n,n*)d

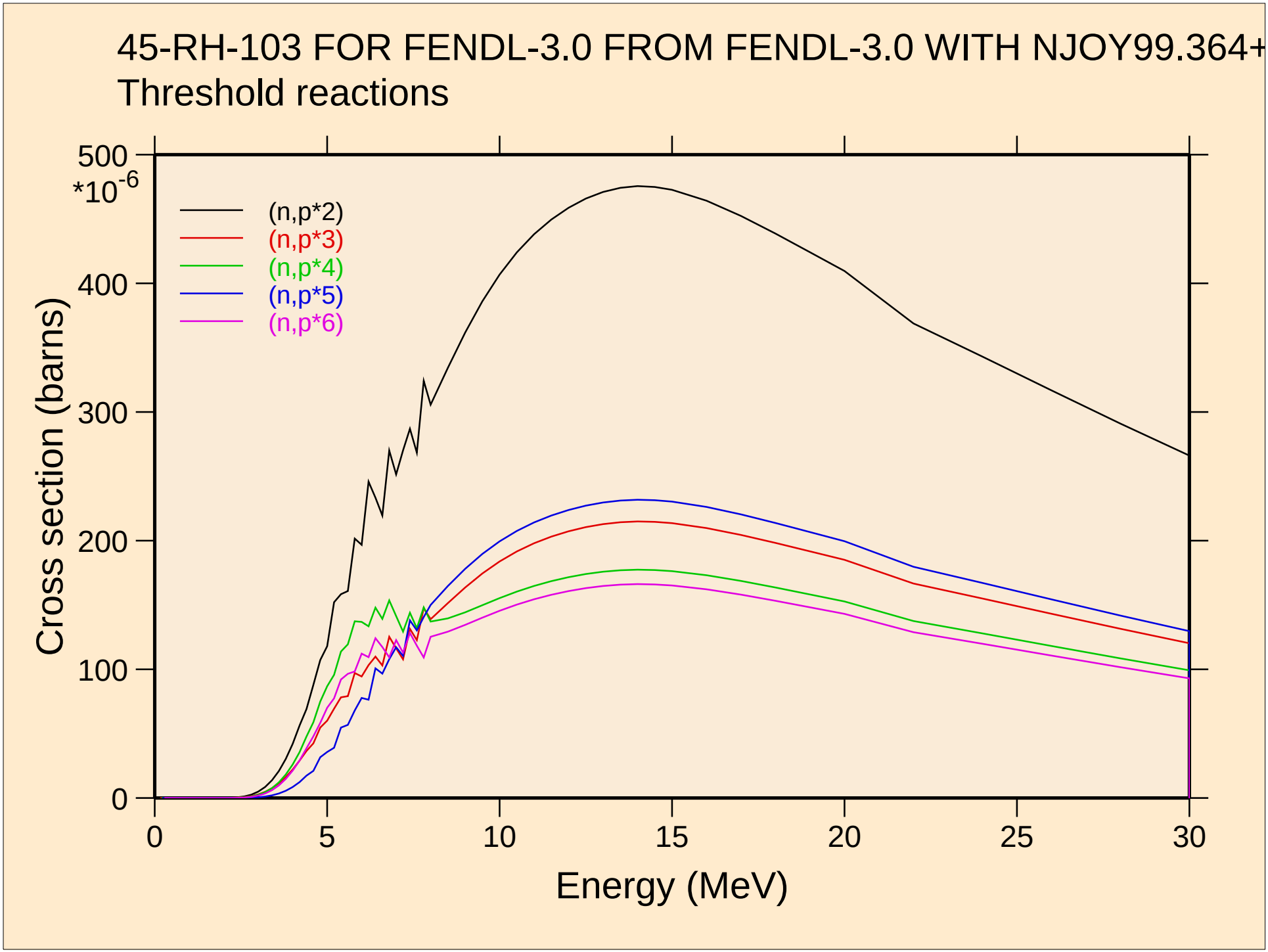

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
100
*10-3
80
60
40
20
0
Cross section (barns)
(n,n*)t
(n,n*)he3
(n,4n)
(n,2np)
(n,3np)
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

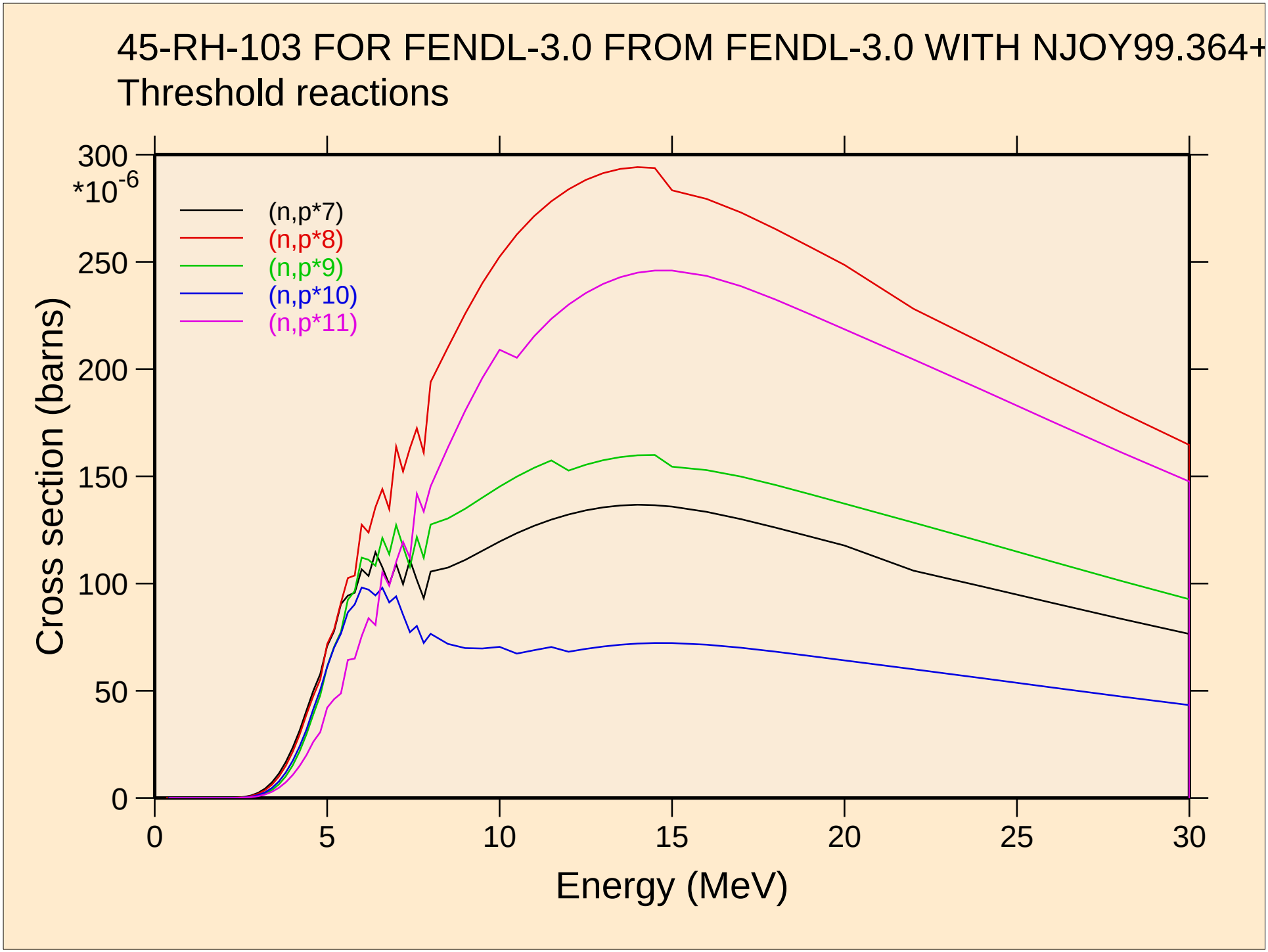

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
(n,n2p)
(n,npa)
(n,n*c)
(n,d)
(n,t)
Cross section (barns)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30
Energy (MeV)

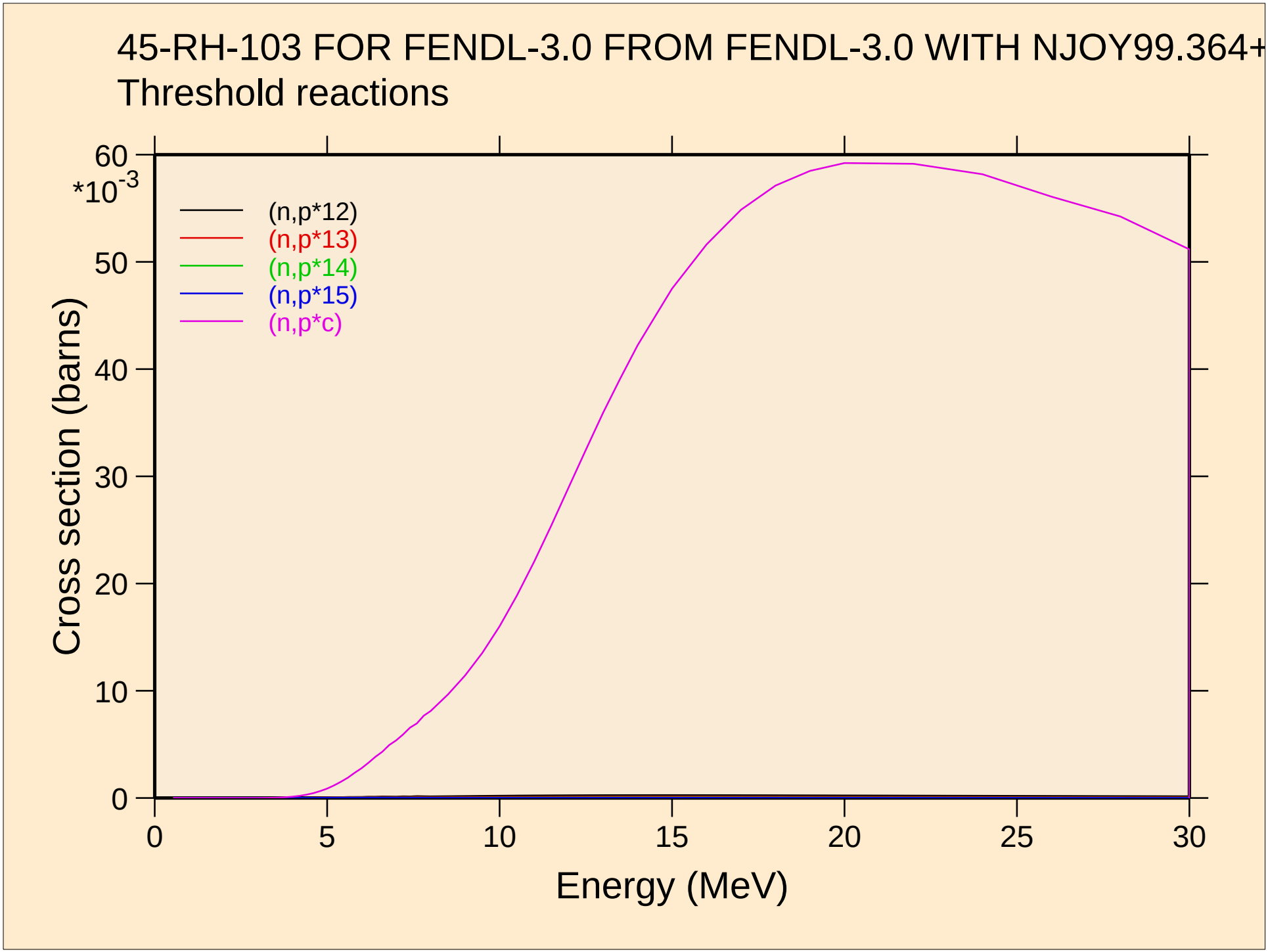

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
Cross section (barns)
*10-6
350
300
250
200
150
100
50
0
0
5
10
15
20
25
30
Energy (MeV)
(n,he3)
(n,2a)
(n,2p)
(n,pa)
(n,pd)

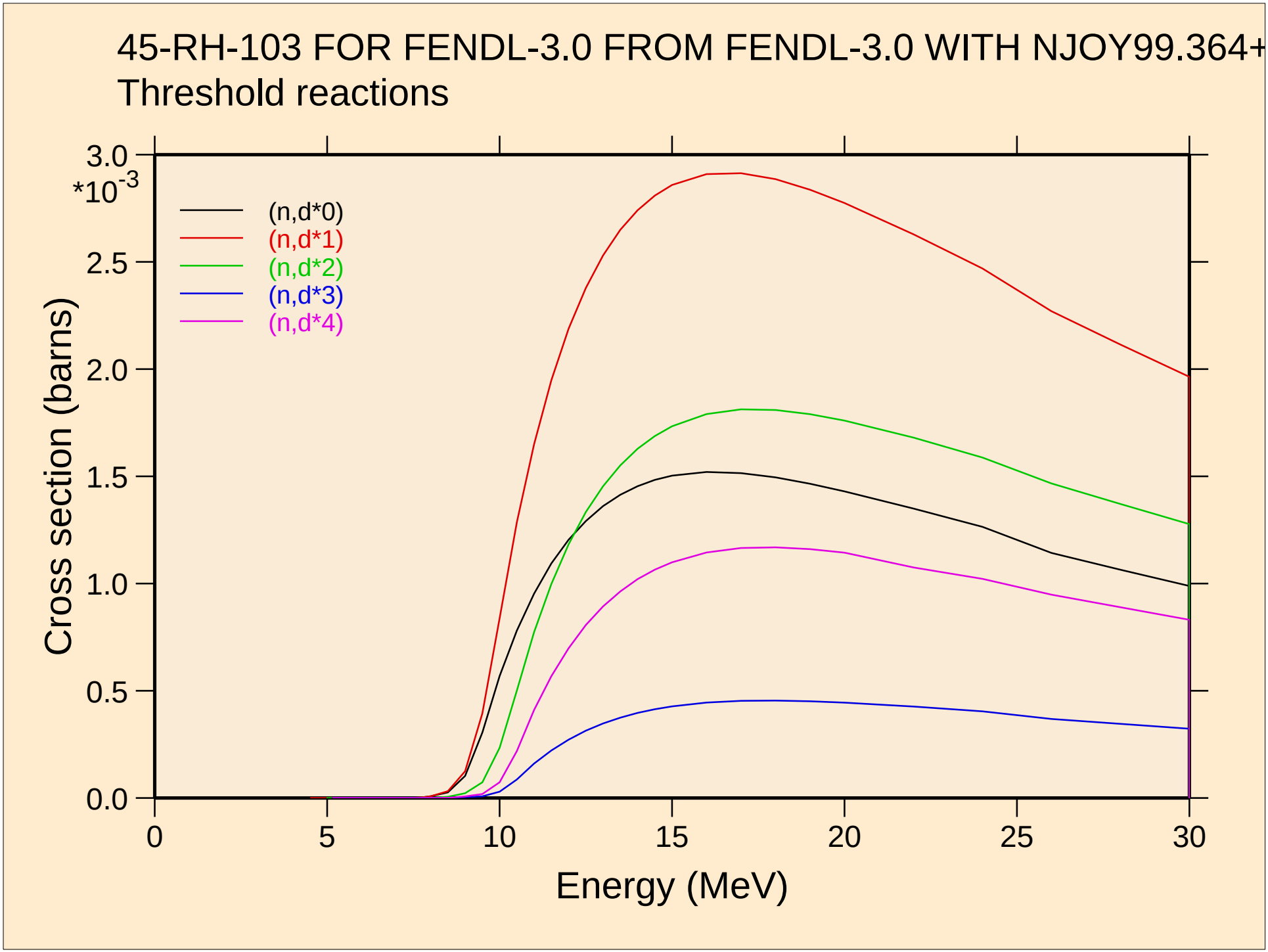

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
3.5
*10-6
3.0
2.5
2.0
1.5
1.0
0.5
0.0
(n,pt)
(n,da)
Cross section (barns)
5
10
15
20
25
30
Energy (MeV)

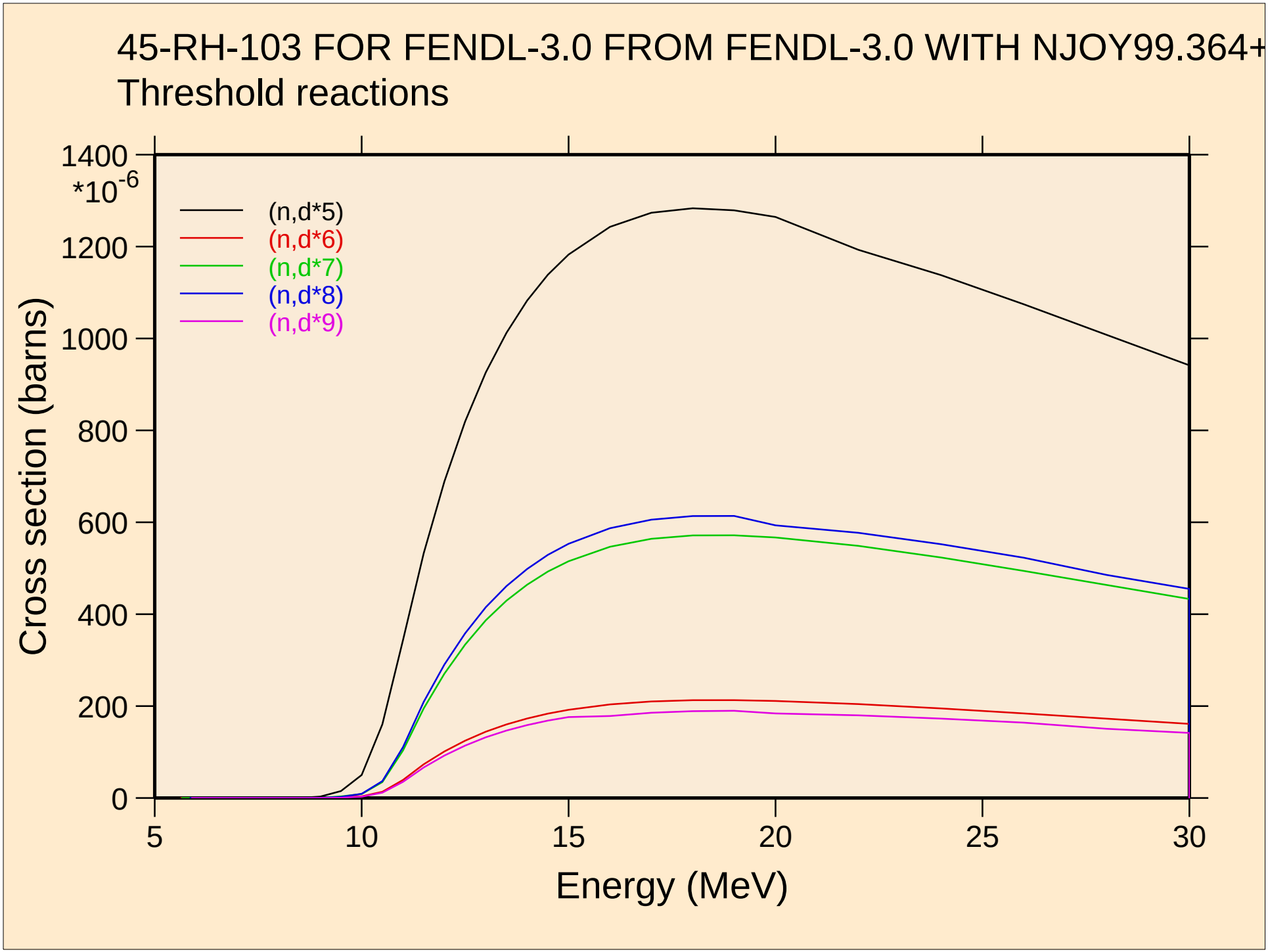

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
300
*10-3
250
200
150
100
50
0
Cross section (barns)
(n,xd)
(n,xt)
(n,xhe3)
(n,p*0)
(n,p*1)
0
50
100
150
200
Energy (MeV)

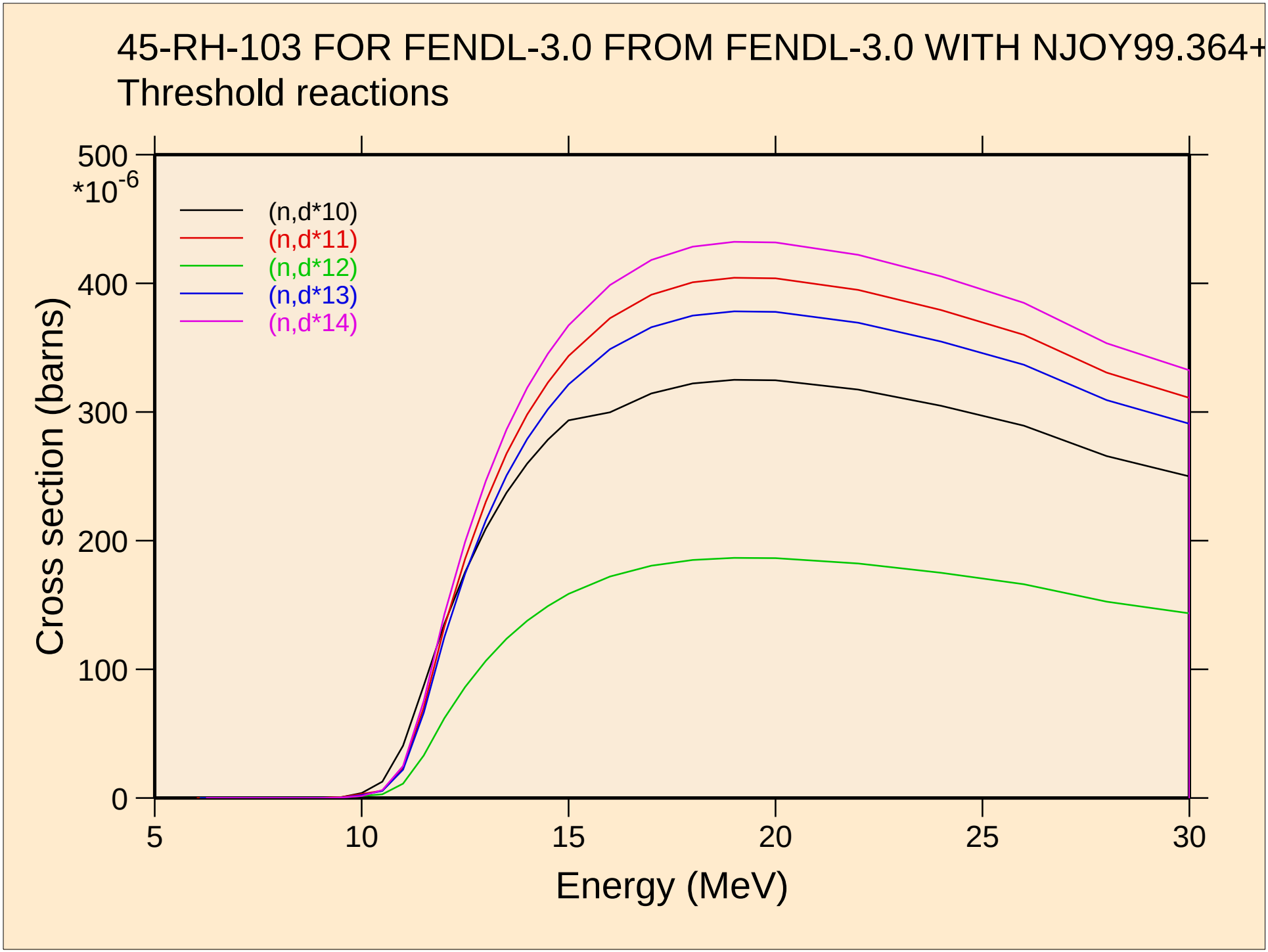

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
500
*10-6
400
300
200
100
0
Cross section (barns)
(n,p*2)
(n,p*3)
(n,p*4)
(n,p*5)
(n,p*6)
0
5
10
15
20
25
30
Energy (MeV)

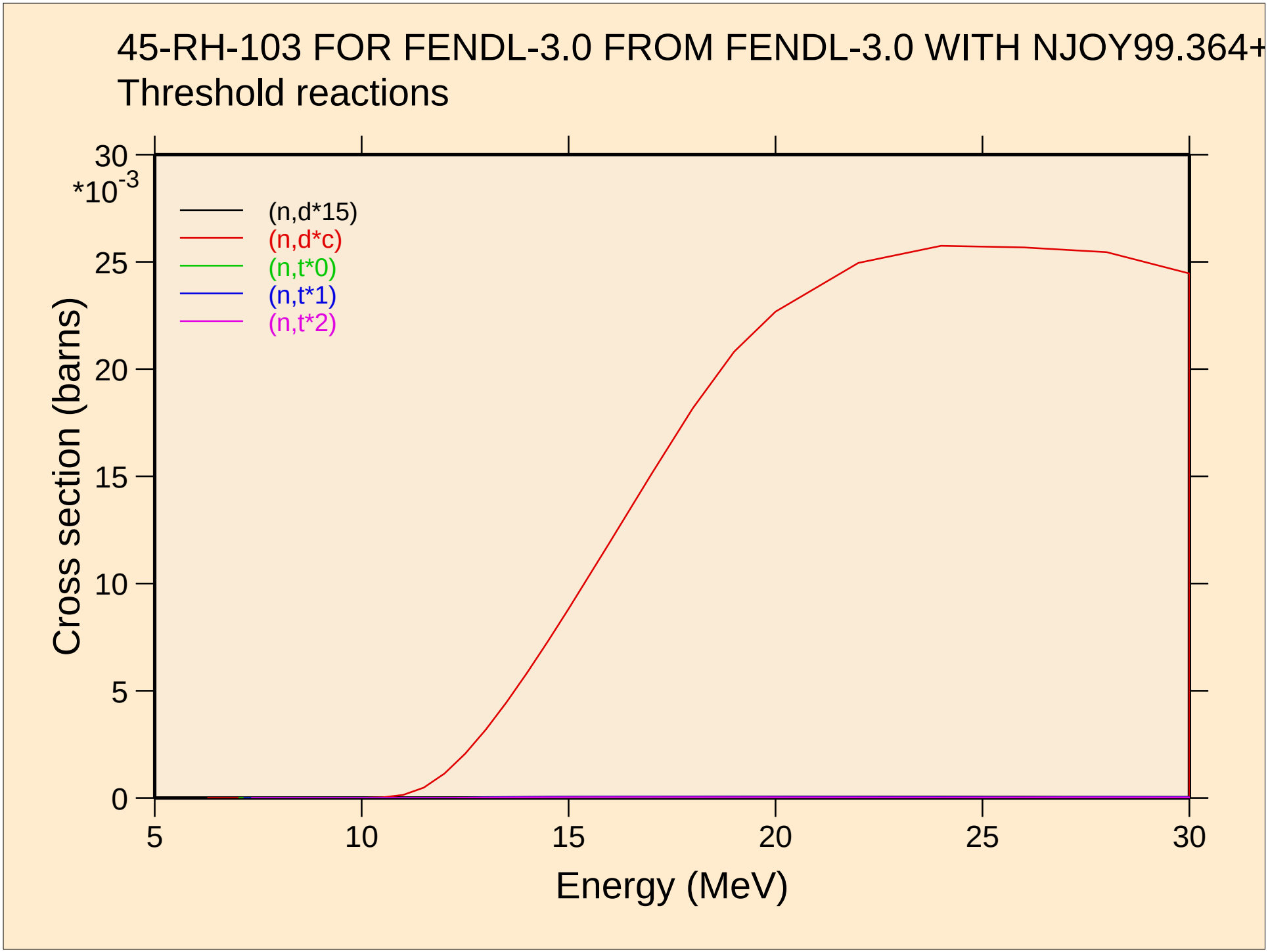

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
300
*10-6
250
200
150
100
50
0
Cross section (barns)
(n,p*7)
(n,p*8)
(n,p*9)
(n,p*10)
(n,p*11)
0
5
10
15
20
25
30
Energy (MeV)

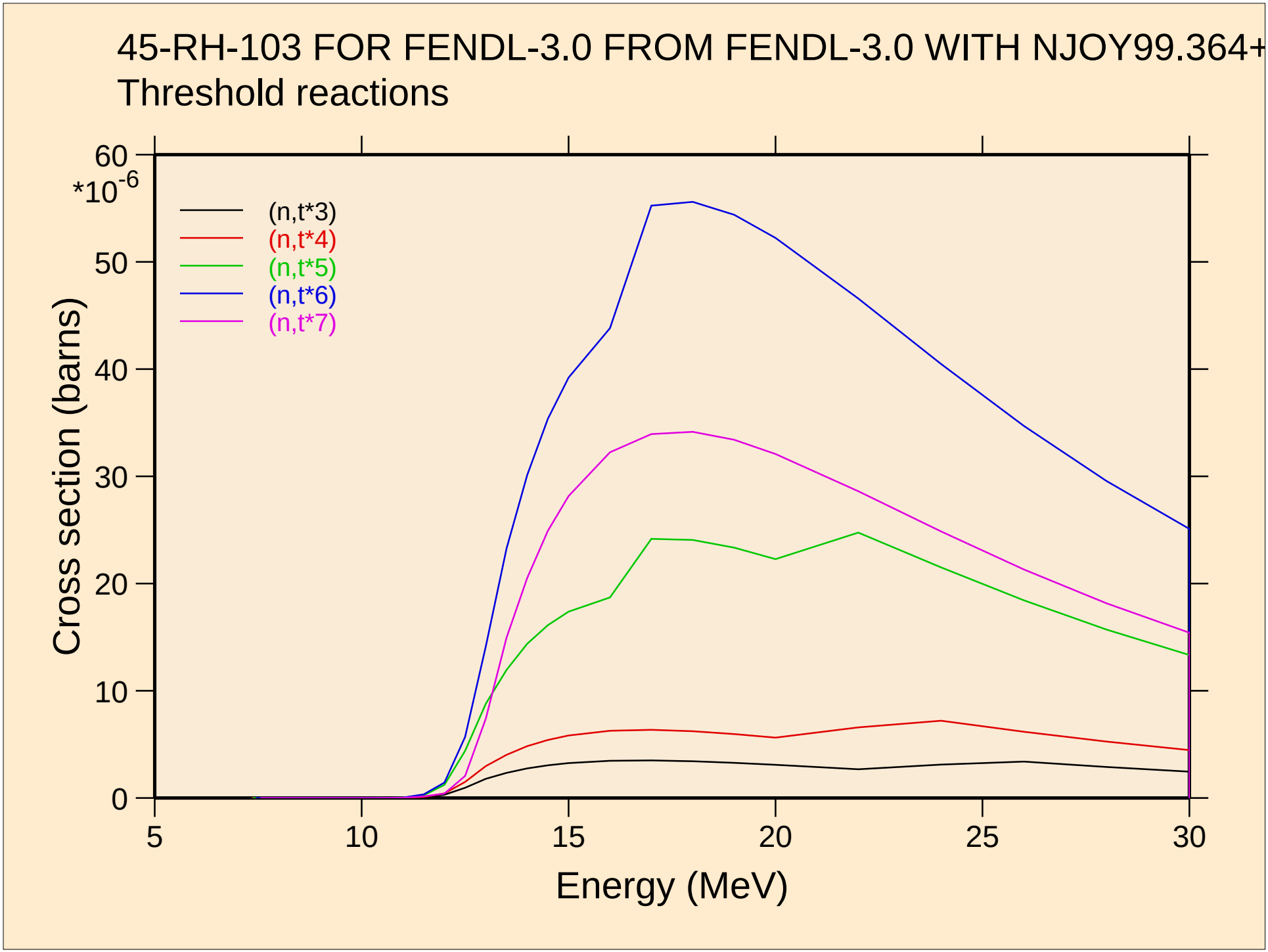

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
*10-3
60
50
40
30
20
10
0
(n,p*12)
(n,p*13)
(n,p*14)
(n,p*15)
(n,p*c)
Cross section (barns)
0
5
10
15
20
25
30
Energy (MeV)

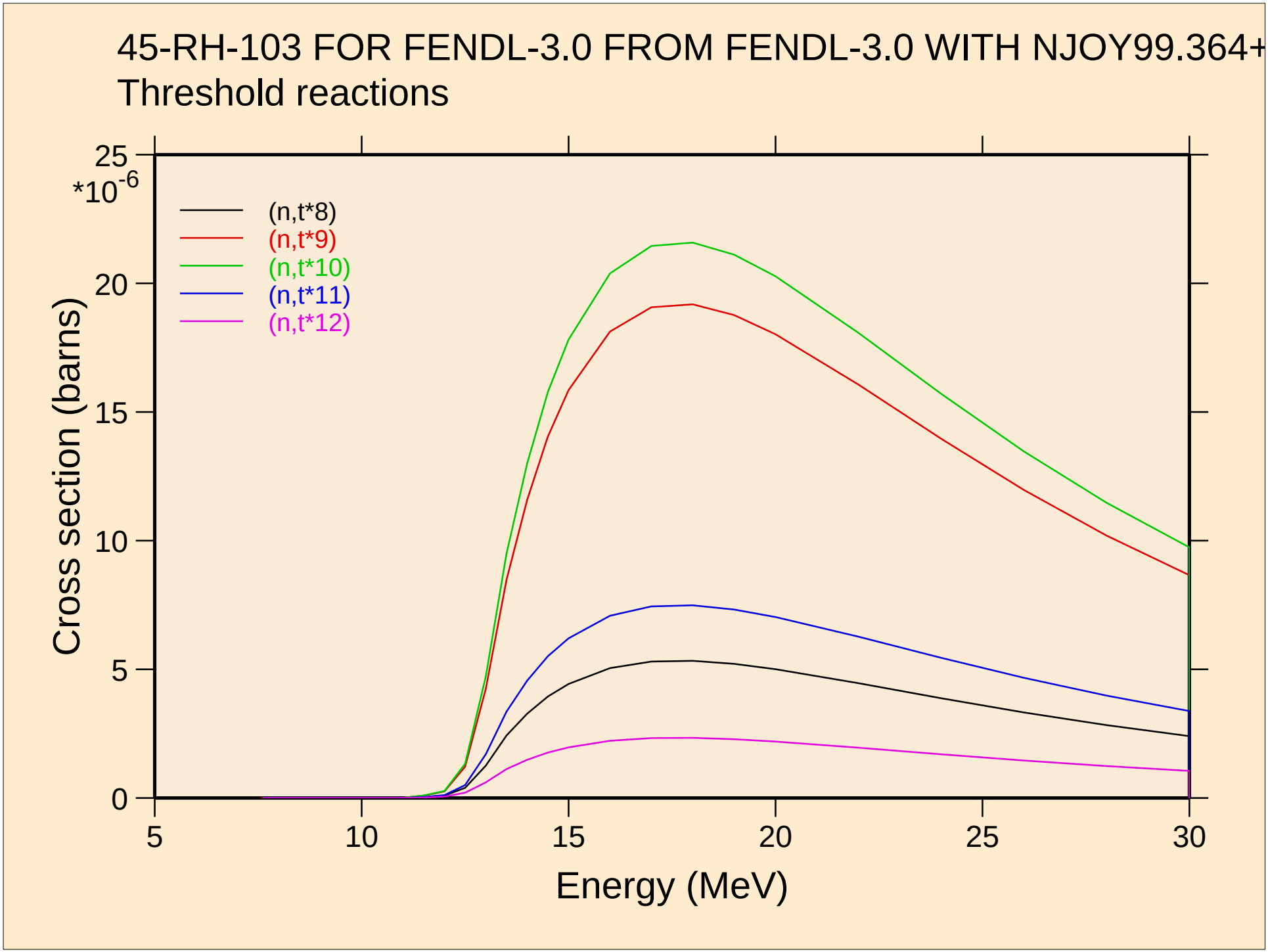

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
Cross section (barns)
*10-3
3.0
2.5
2.0
1.5
1.0
0.5
0.0
(n,d*0)
(n,d*1)
(n,d*2)
(n,d*3)
(n,d*4)
0
5
10
15
20
25
30
Energy (MeV)

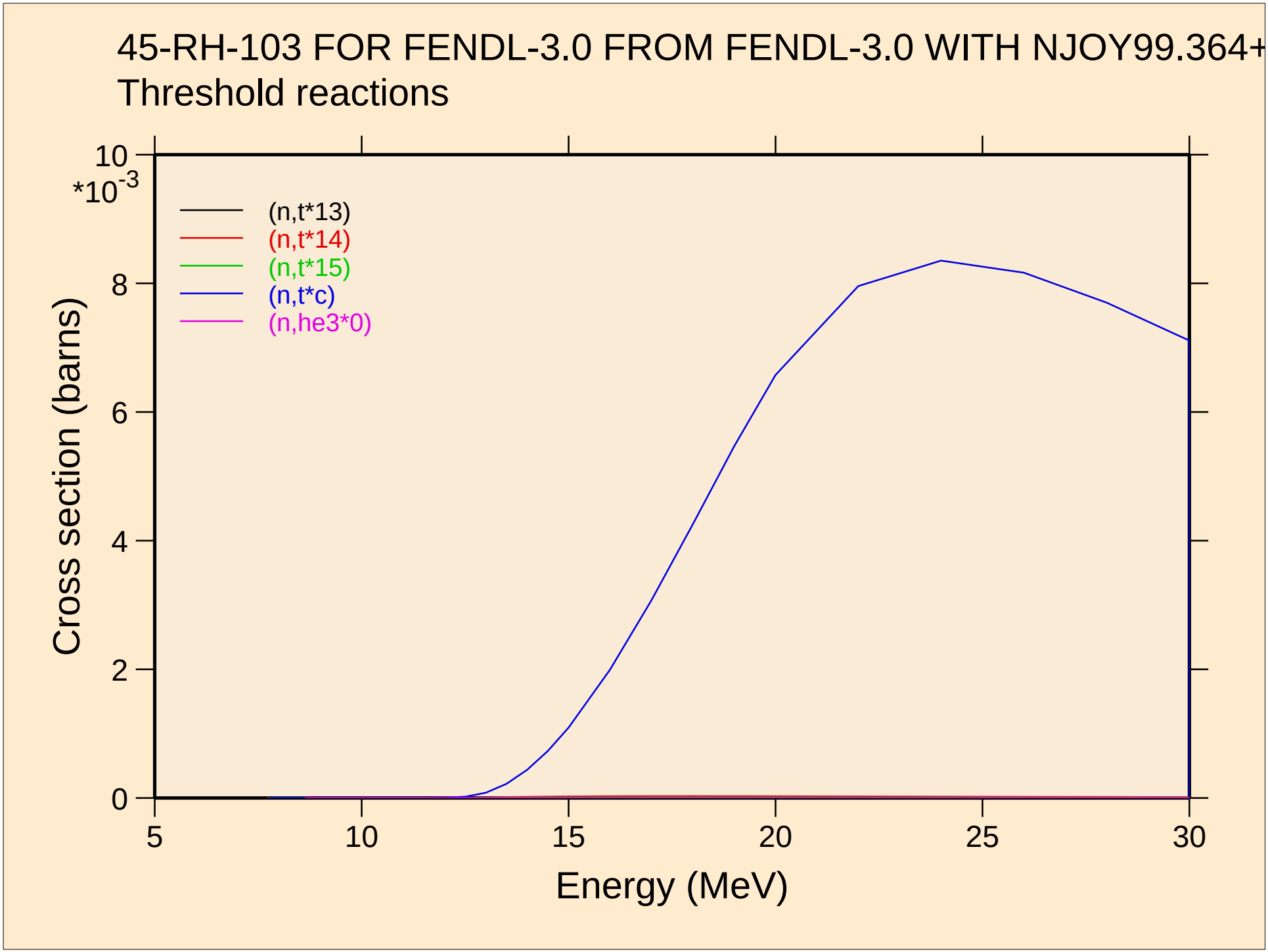

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
1400
*10-6
1200
1000
800
600
400
200
0
Cross section (barns)
(n,d*5)
(n,d*6)
(n,d*7)
(n,d*8)
(n,d*9)
5
10
15
20
25
30
Energy (MeV)

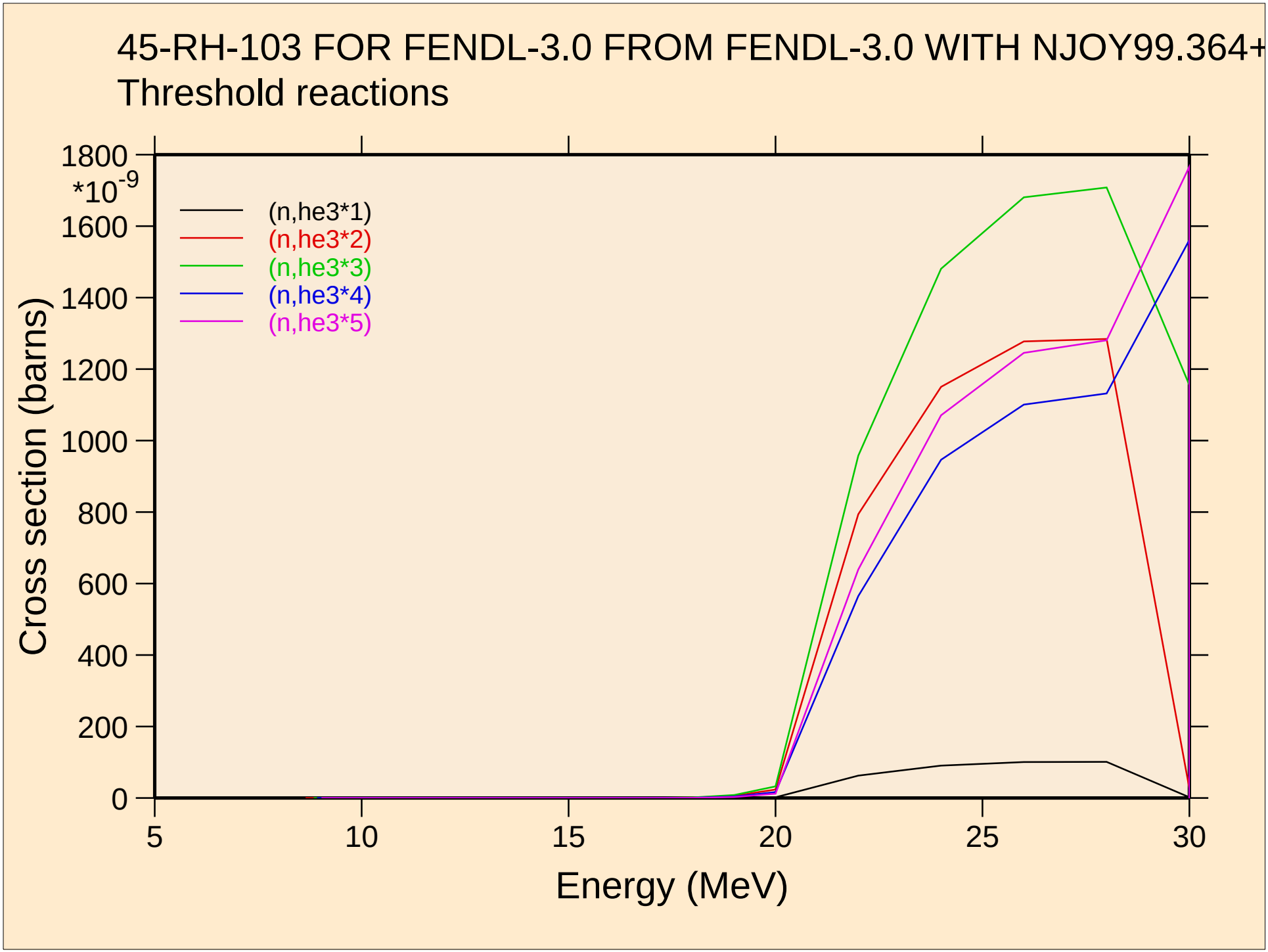

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
500
*10-6
400
300
200
100
0
Cross section (barns)
(n,d*10)
(n,d*11)
(n,d*12)
(n,d*13)
(n,d*14)
5
10
15
20
25
30
Energy (MeV)

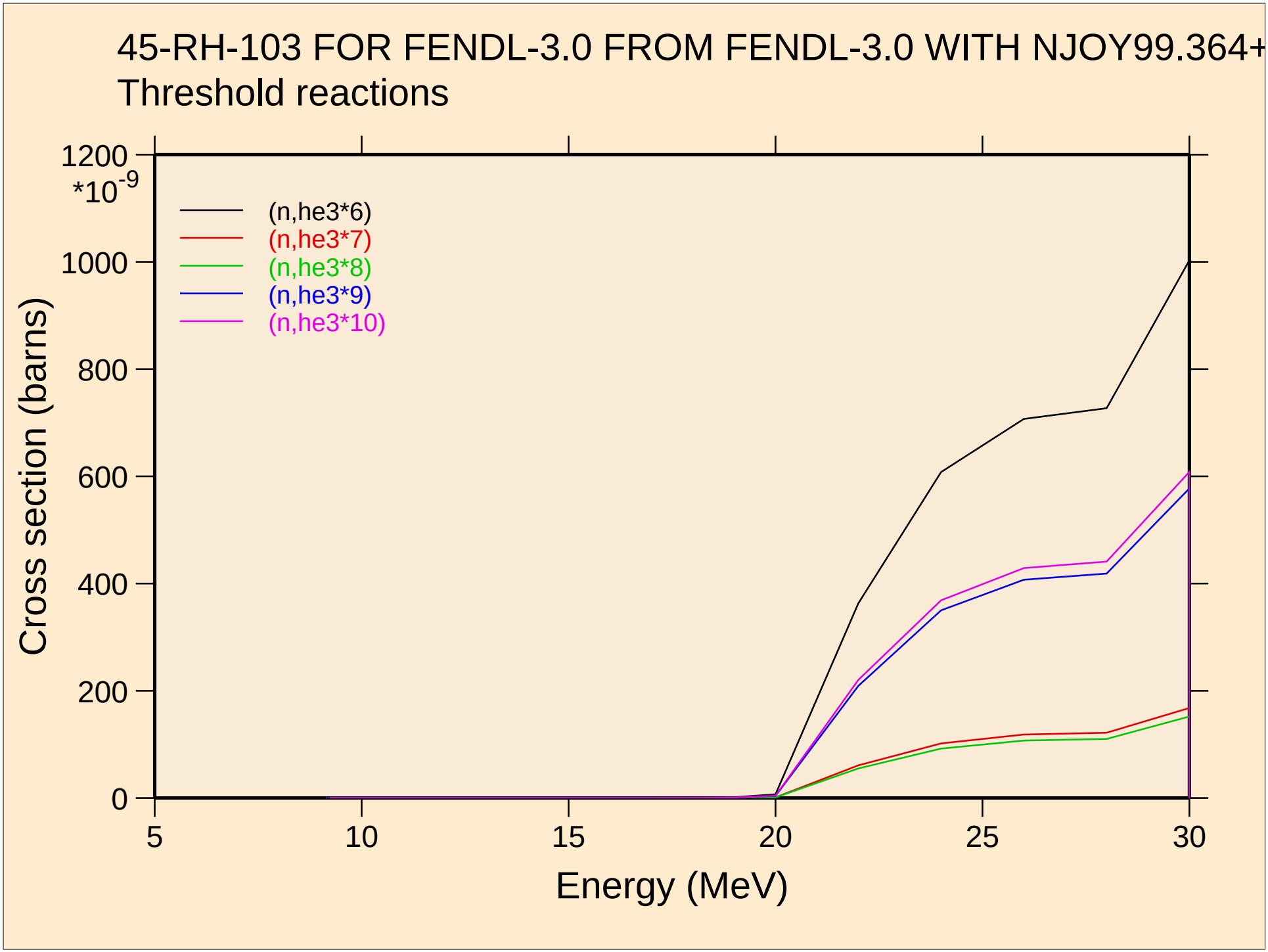

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
*10-3
30
25
20
15
10
5
0
Cross section (barns)
(n,d*15)
(n,d*c)
(n,t*0)
(n,t*1)
(n,t*2)
5
10
15
20
25
30
Energy (MeV)

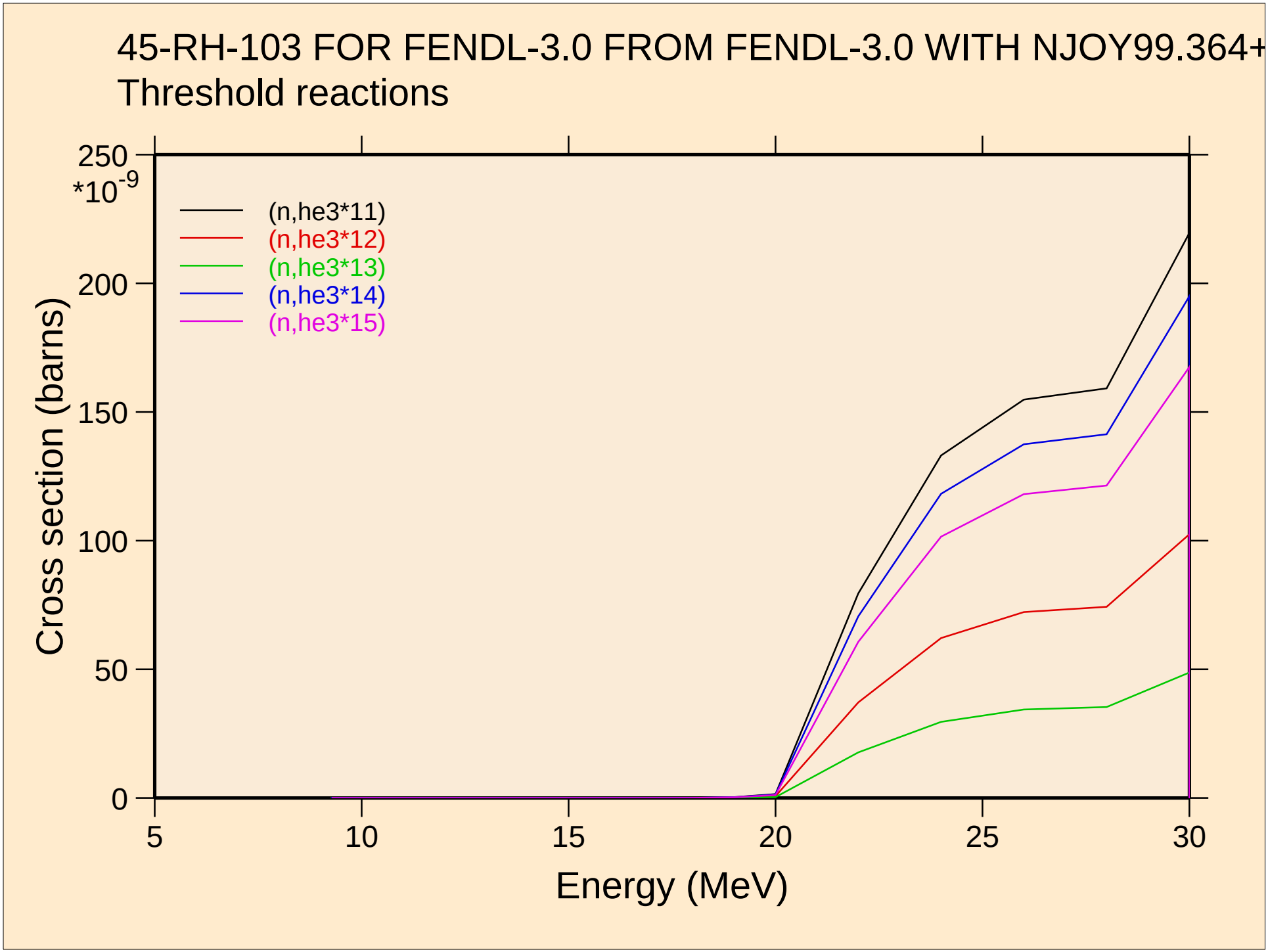

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
Cross section (barns)
*10-6
60
50
40
30
20
10
0
5
10
15
20
25
30
Energy (MeV)
(n,t*3)
(n,t*4)
(n,t*5)
(n,t*6)
(n,t*7)

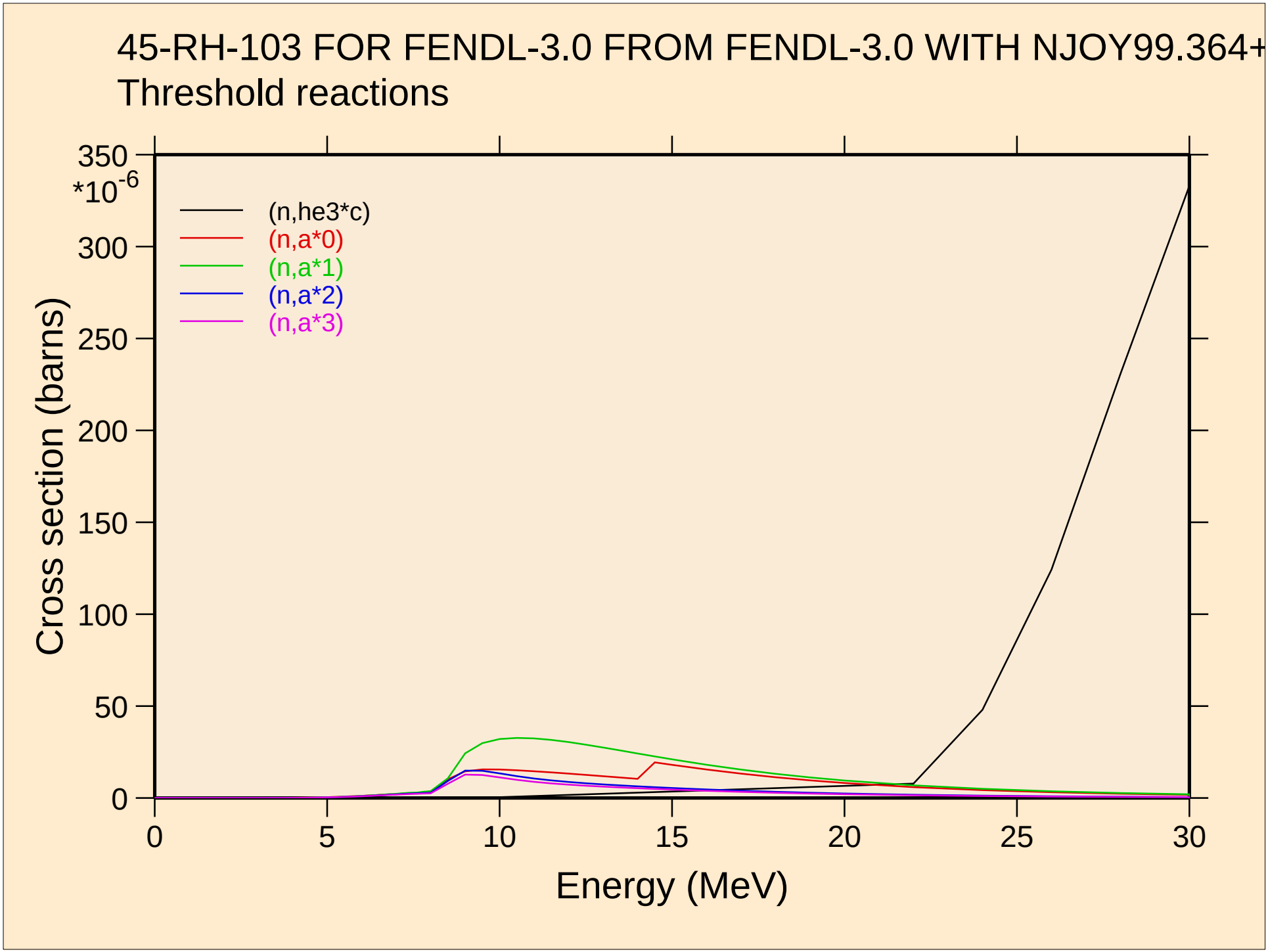

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
*10-6
25
20
15
10
5
0
Cross section (barns)
(n,t*8)
(n,t*9)
(n,t*10)
(n,t*11)
(n,t*12)
5
10
15
20
25
30
Energy (MeV)

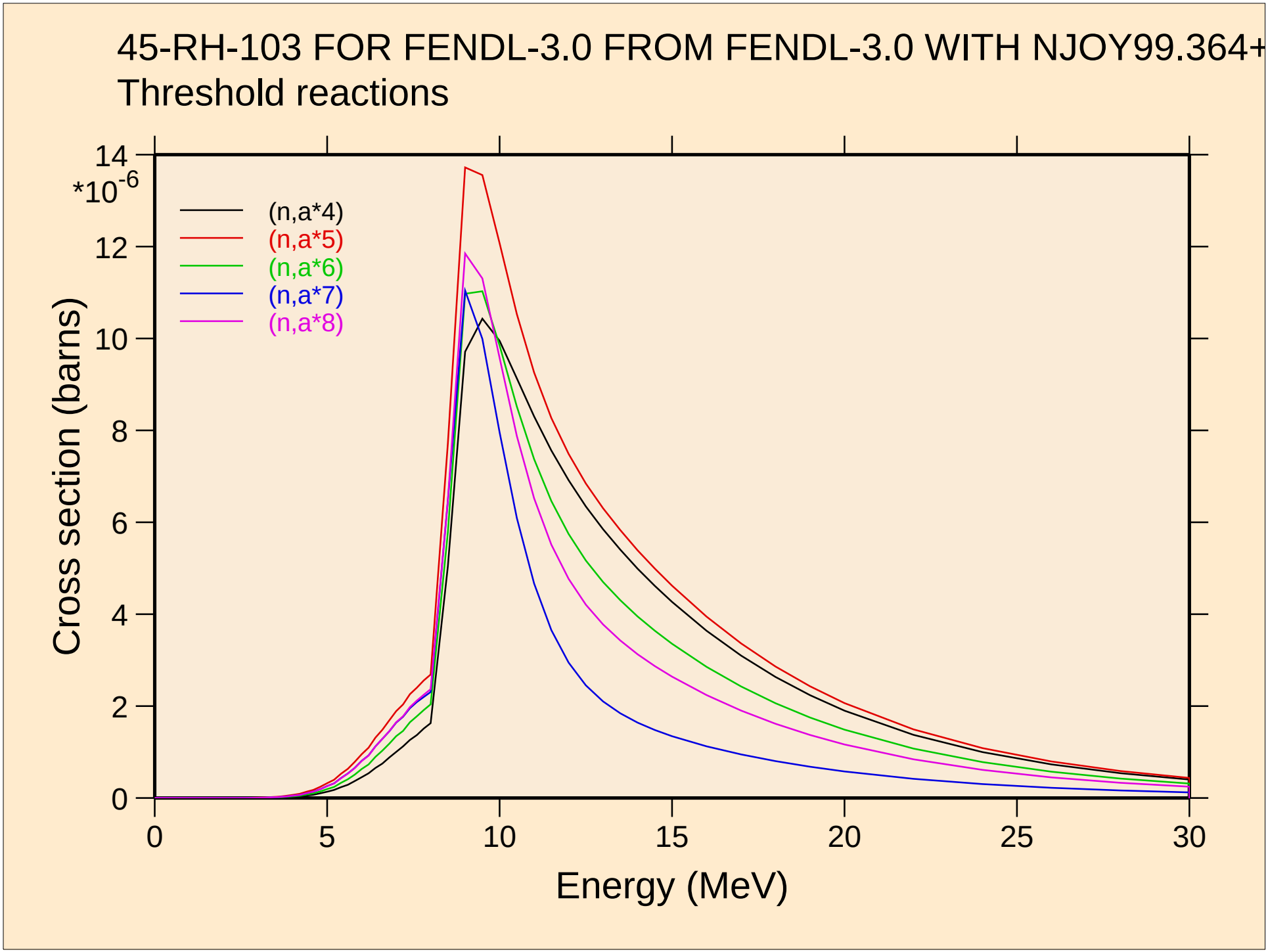

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
10
*10-3
8
6
4
2
0
Cross section (barns)
(n,t*13)
(n,t*14)
(n,t*15)
(n,t*c)
(n,he3*0)
5
10
15
20
25
30
Energy (MeV)

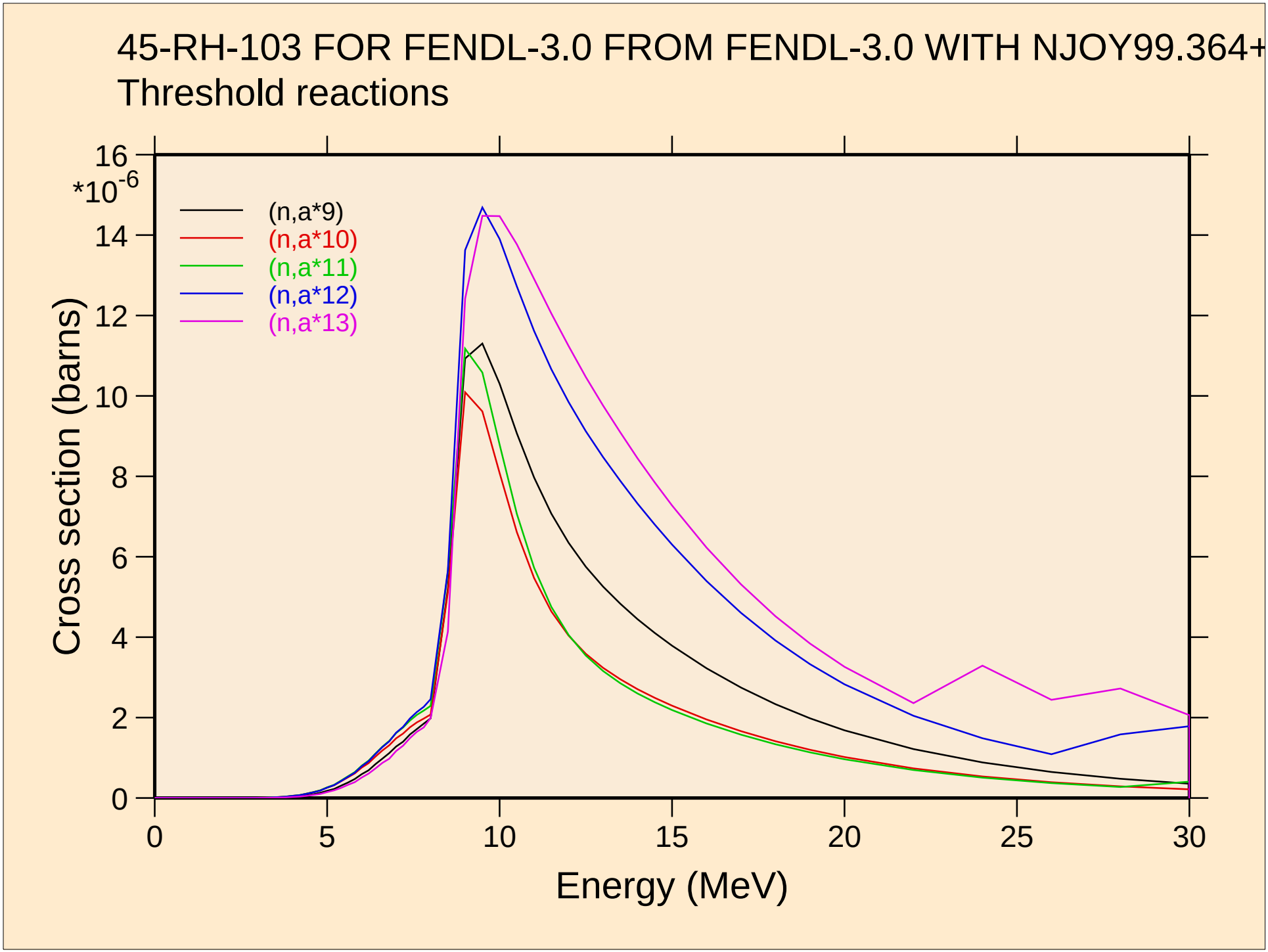

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
1800
*10-9
1600
1400
1200
1000
800
600
400
200
0
Cross section (barns)
(n,he3*1)
(n,he3*2)
(n,he3*3)
(n,he3*4)
(n,he3*5)
5
10
15
20
25
30
Energy (MeV)

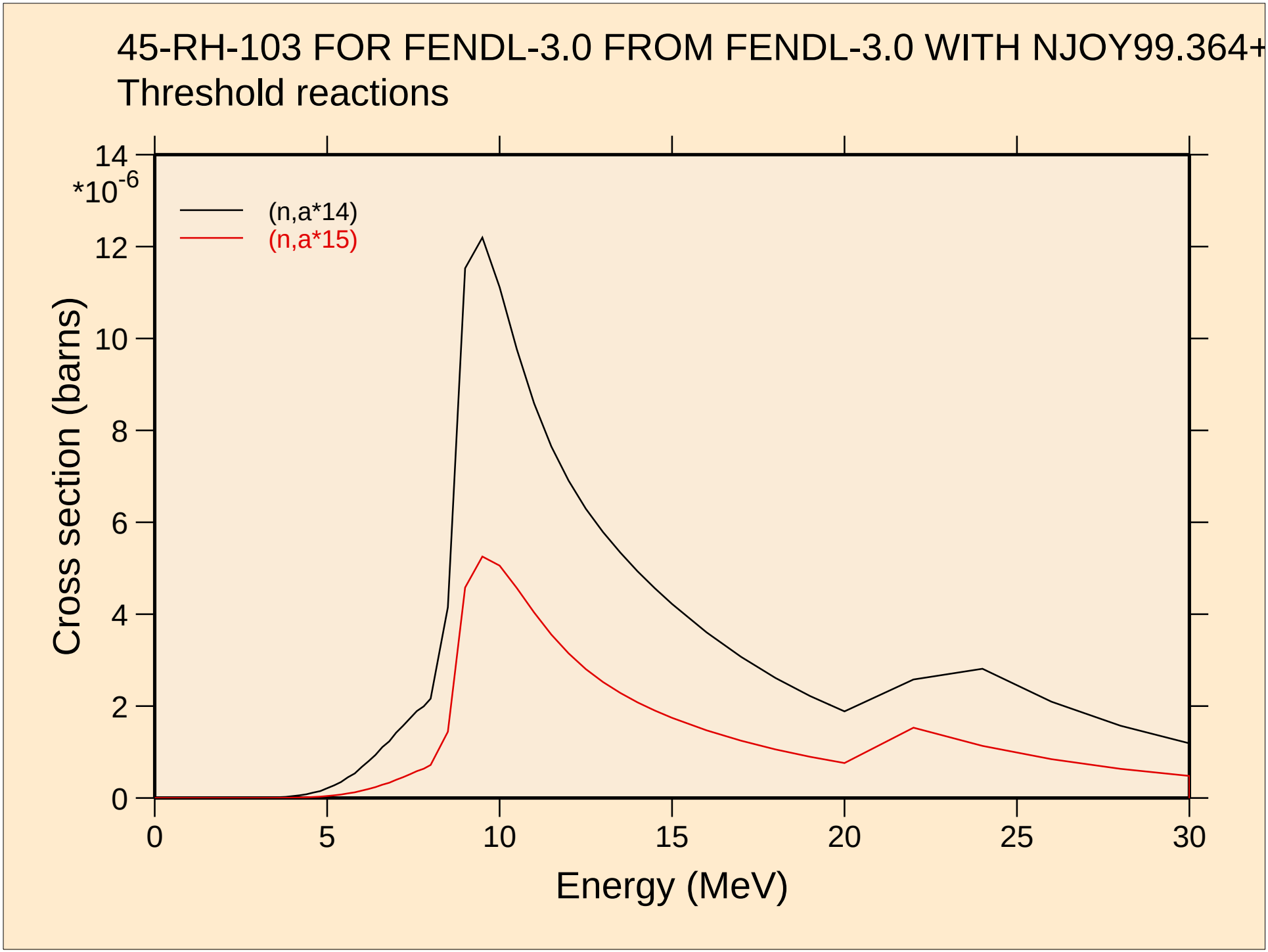

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
1200
*10-9
1000
800
600
400
200
0
Cross section (barns)
(n,he3*6)
(n,he3*7)
(n,he3*8)
(n,he3*9)
(n,he3*10)
5
10
15
20
25
30
Energy (MeV)

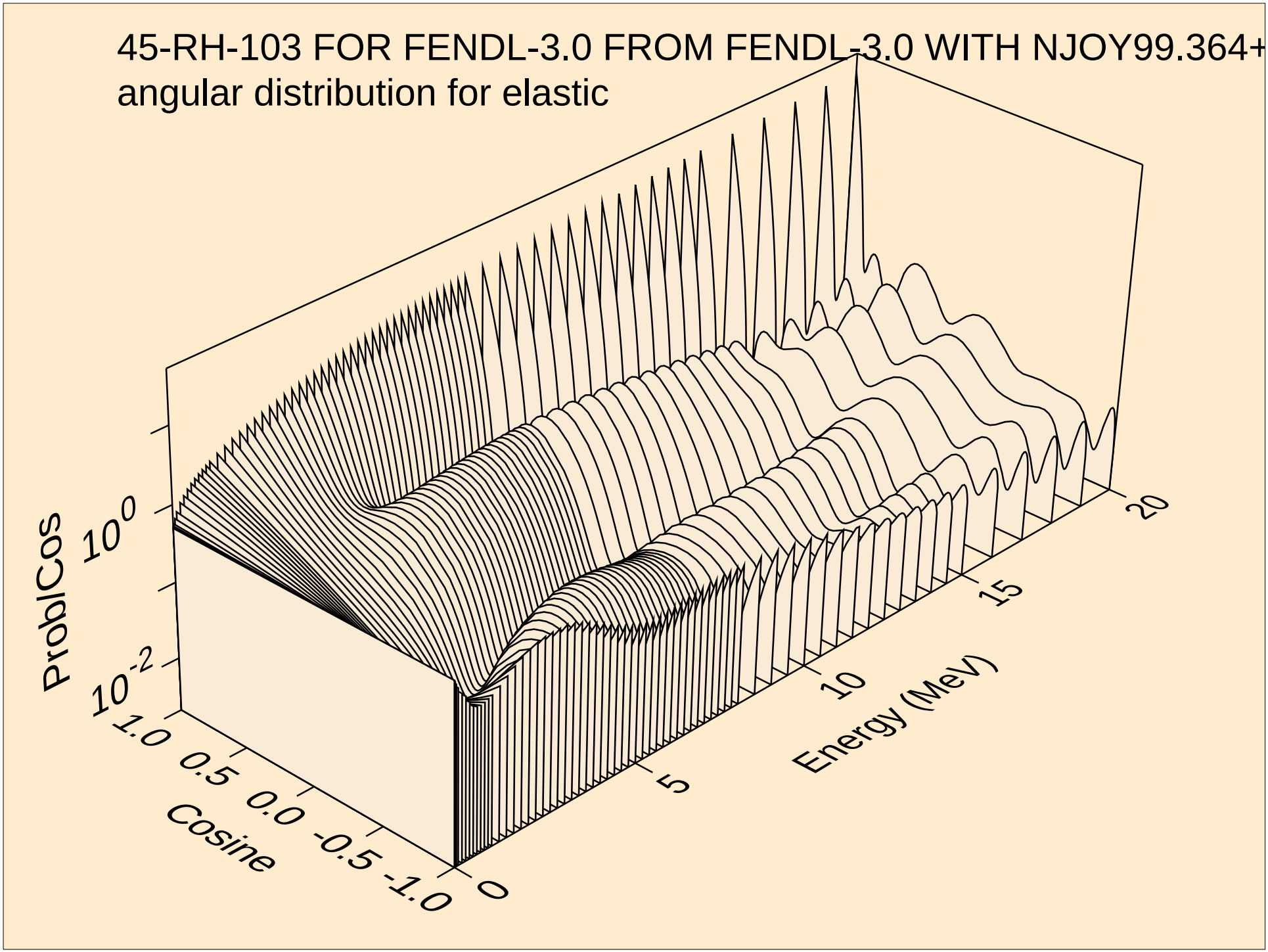

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
250
*10-9
200
150
100
50
0
Cross section (barns)
(n,he3*11)
(n,he3*12)
(n,he3*13)
(n,he3*14)
(n,he3*15)
5
10
15
20
25
30
Energy (MeV)

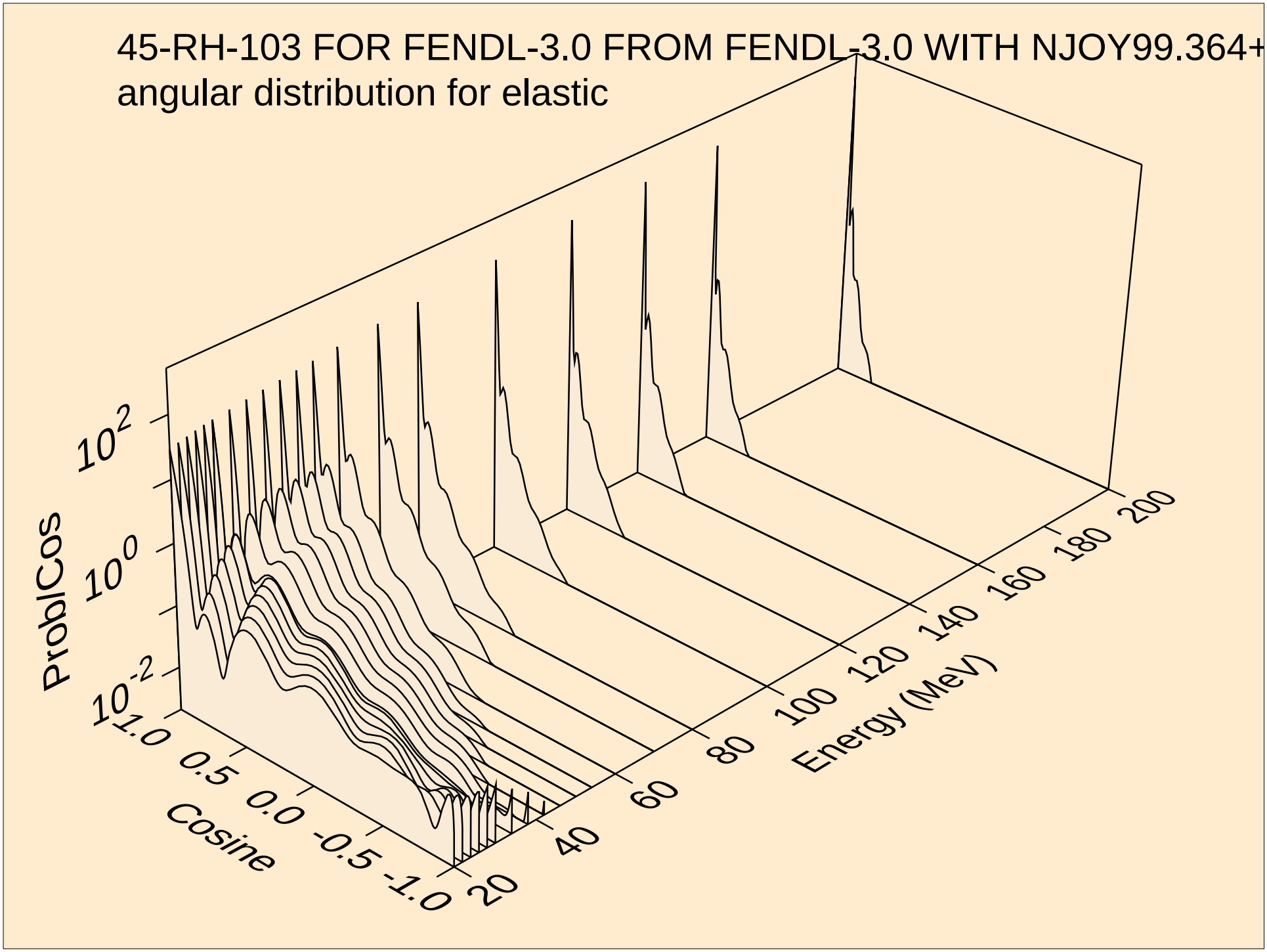

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
Cross section (barns)
*10-6
350
300
250
200
150
100
50
0
0
5
10
15
20
25
30
Energy (MeV)
(n,he3*c)
(n,a*0)
(n,a*1)
(n,a*2)
(n,a*3)

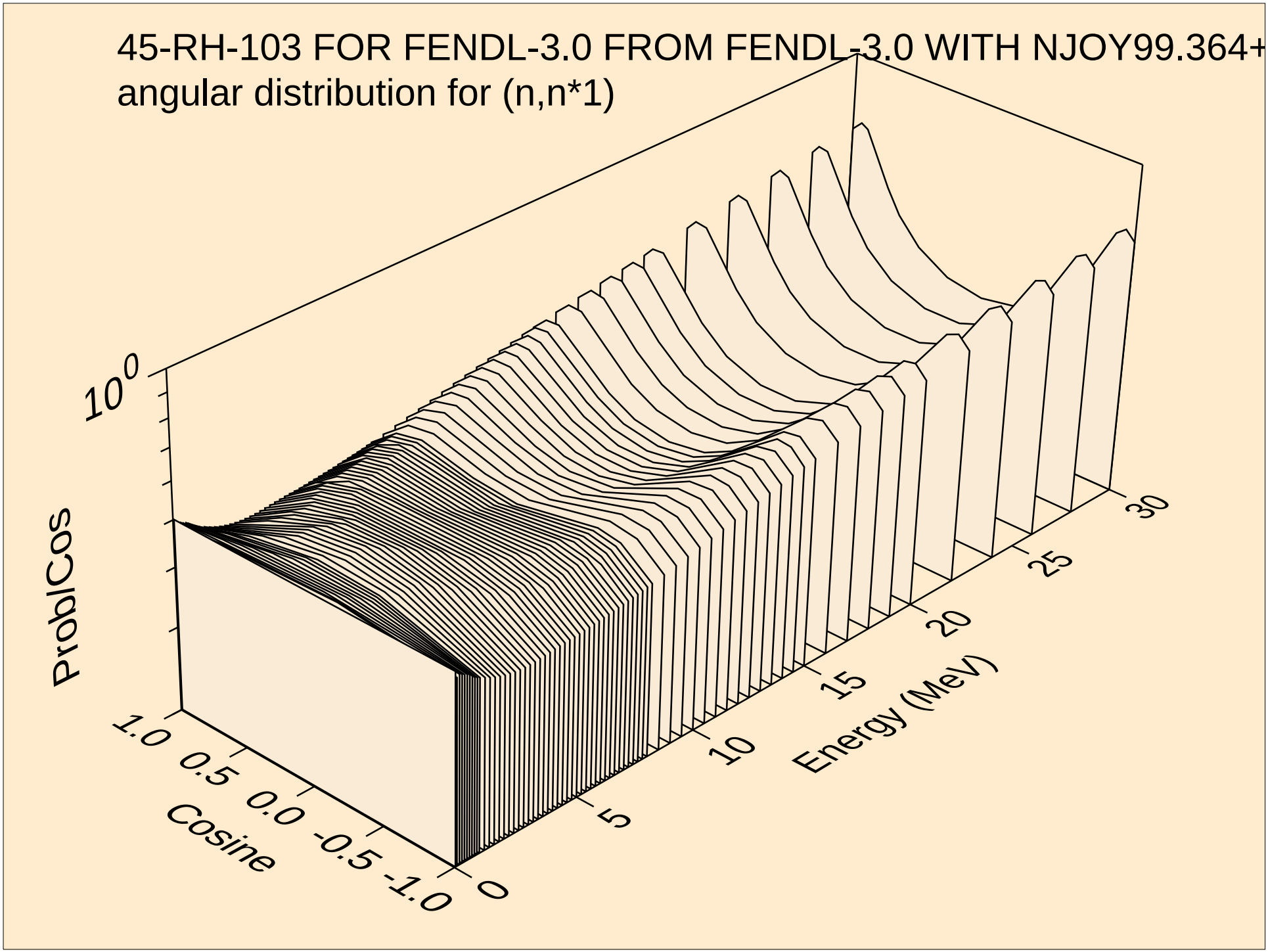

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
Cross section (barns)
*10-6
14
12
10
8
6
4
2
0
0
5
10
15
20
25
30
Energy (MeV)
(n,a*4)
(n,a*5)
(n,a*6)
(n,a*7)
(n,a*8)

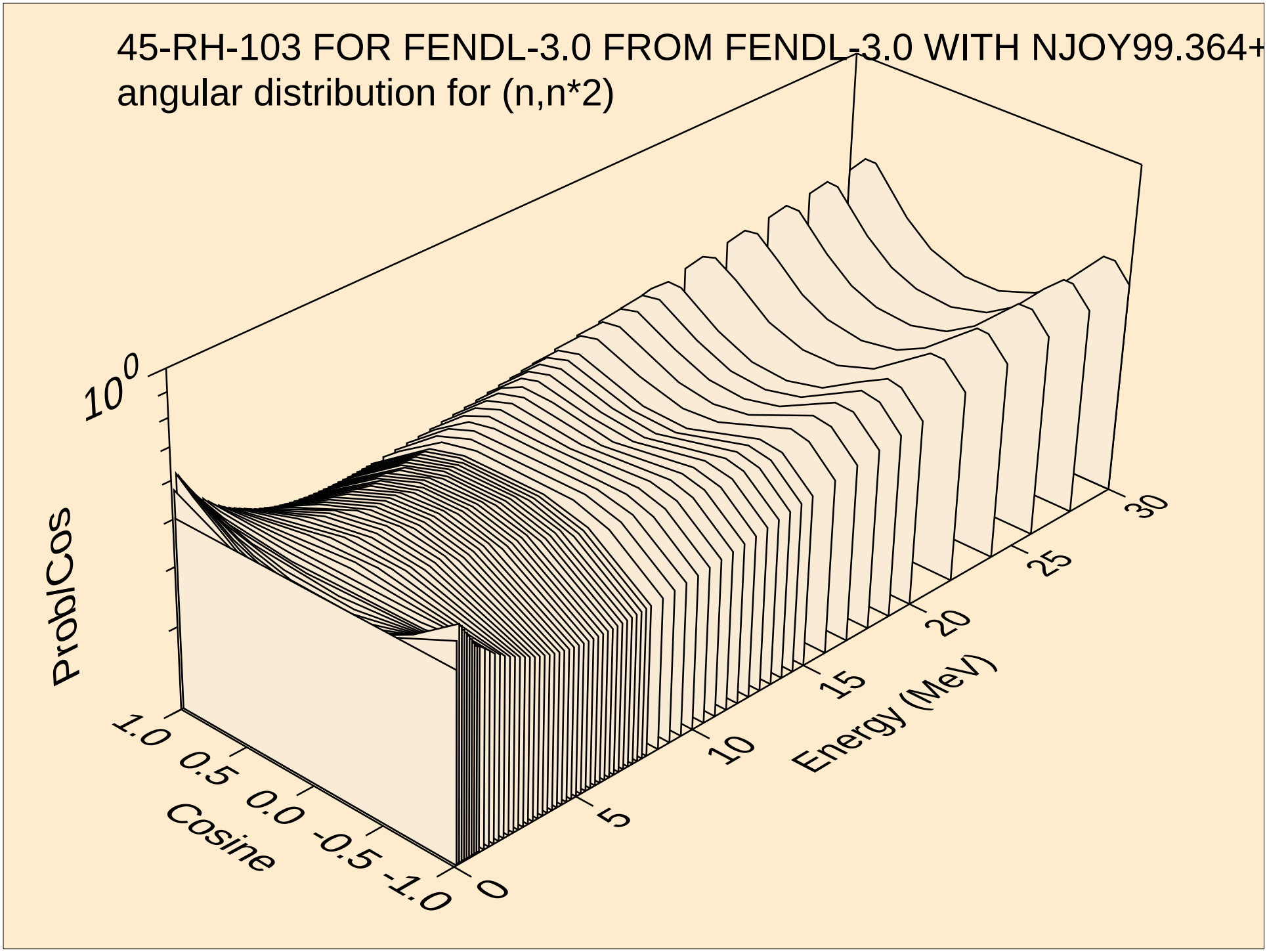

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
Cross section (barns)
*10-6
16
14
12
10
8
6
4
2
0
0
5
10
15
20
25
30
Energy (MeV)
(n,a*9)
(n,a*10)
(n,a*11)
(n,a*12)
(n,a*13)

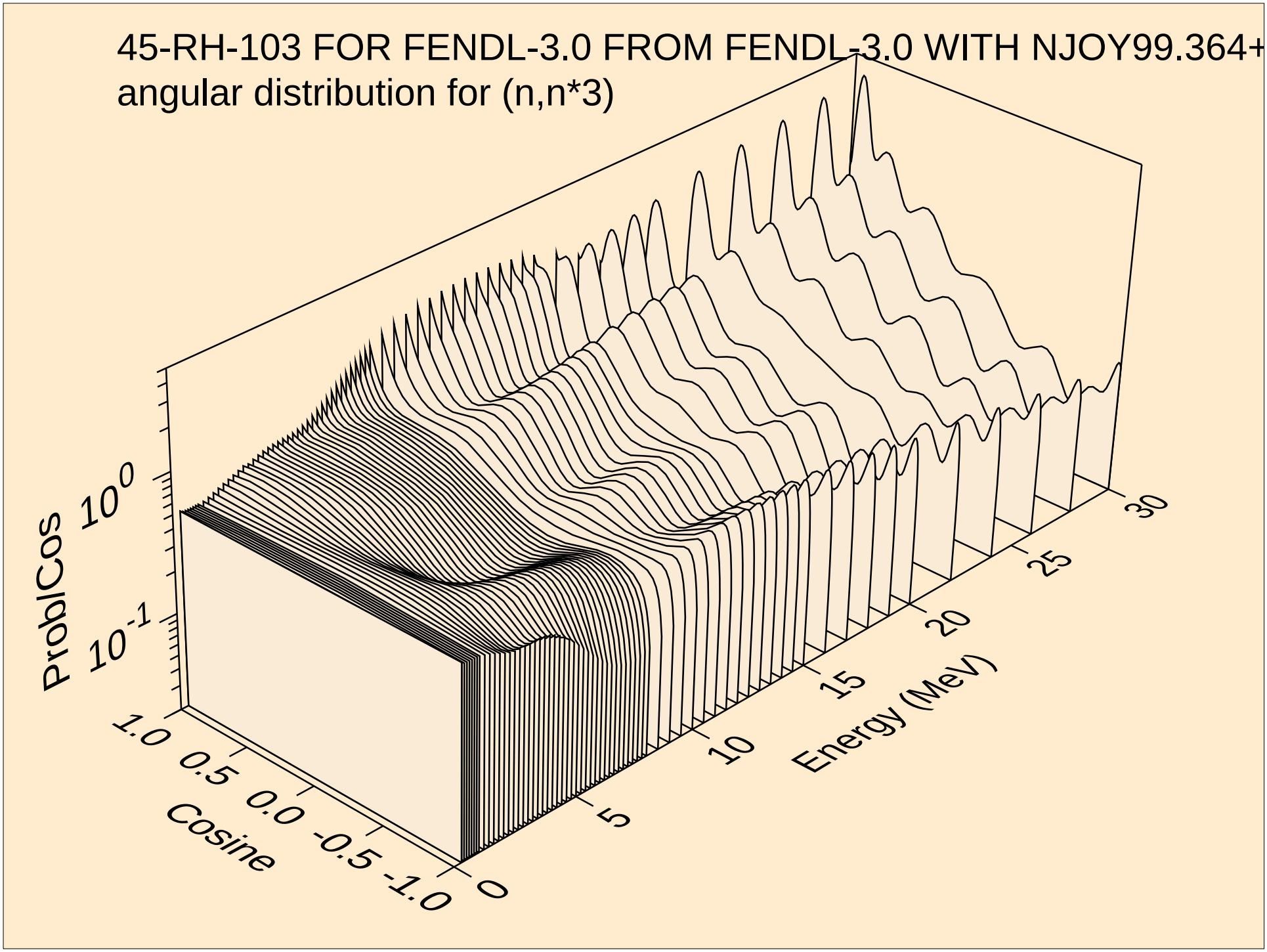

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Threshold reactions
*10-6
(n,a*14)
(n,a*15)
Cross section (barns)
Energy (MeV)
0
2
4
6
8
10
12
14
0
5
10
15
20
25
30

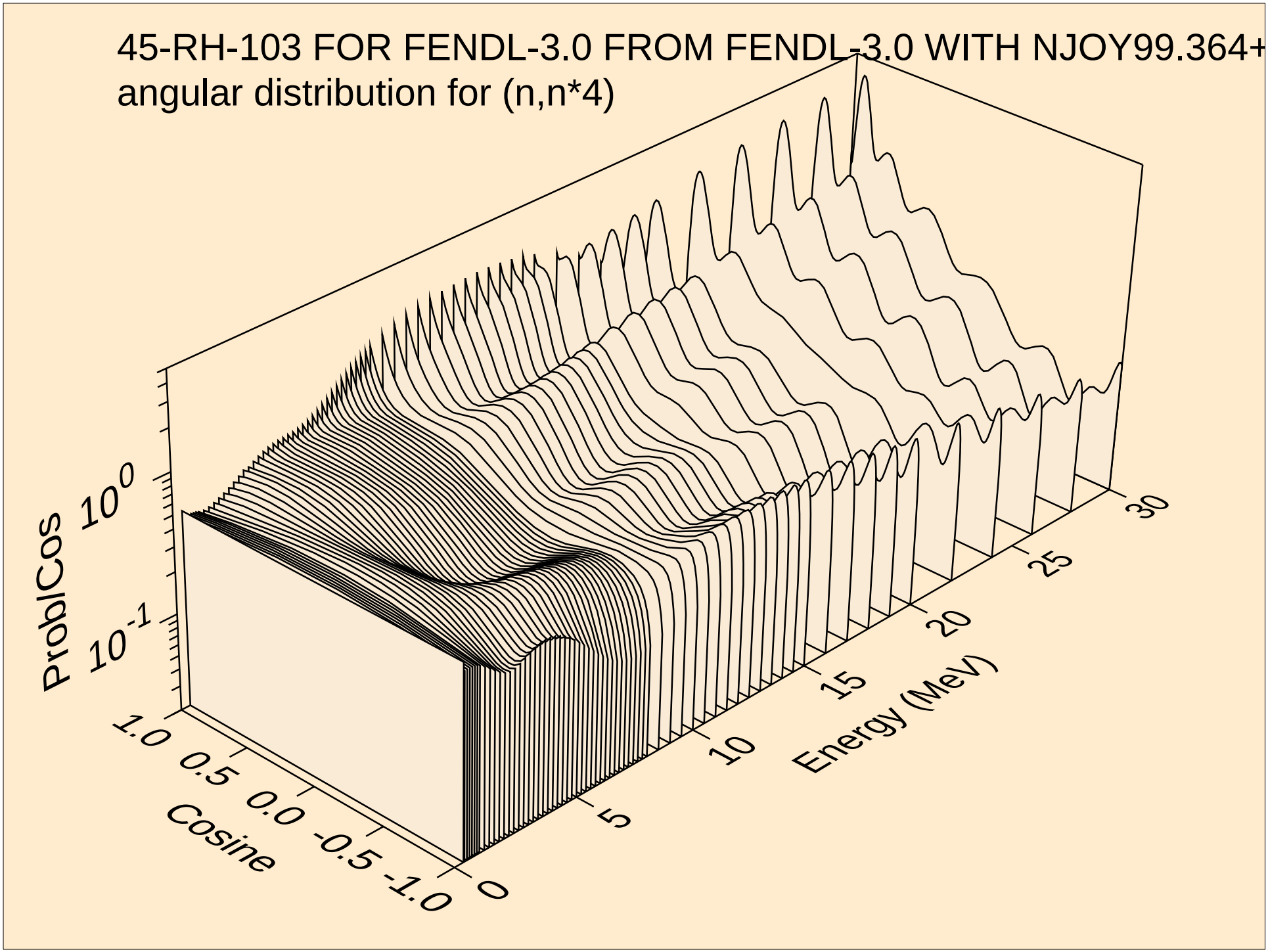

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for elastic
ProbICos
10^{0}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

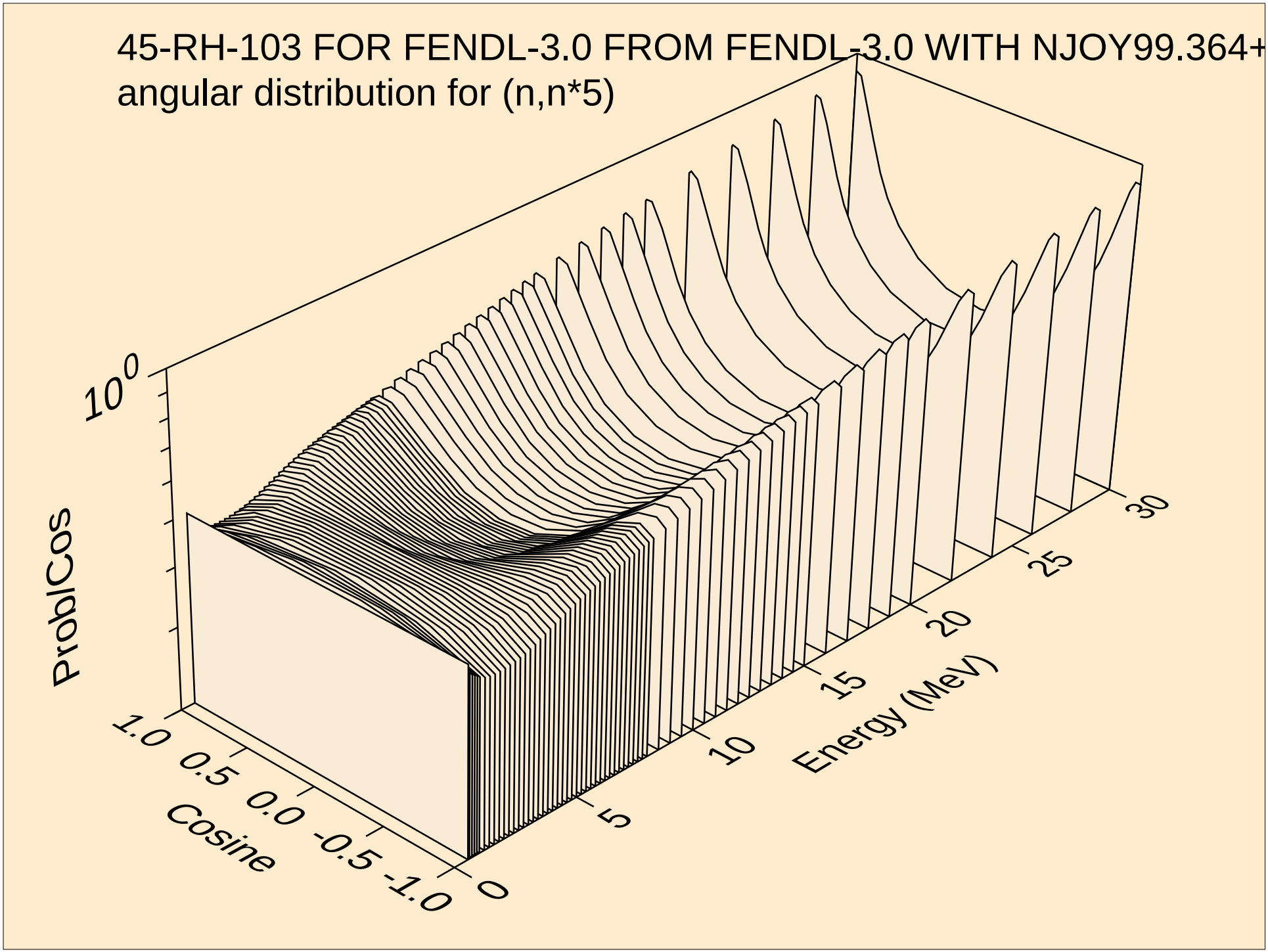

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for elastic
ProbICos
10^{2}
10^{0}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

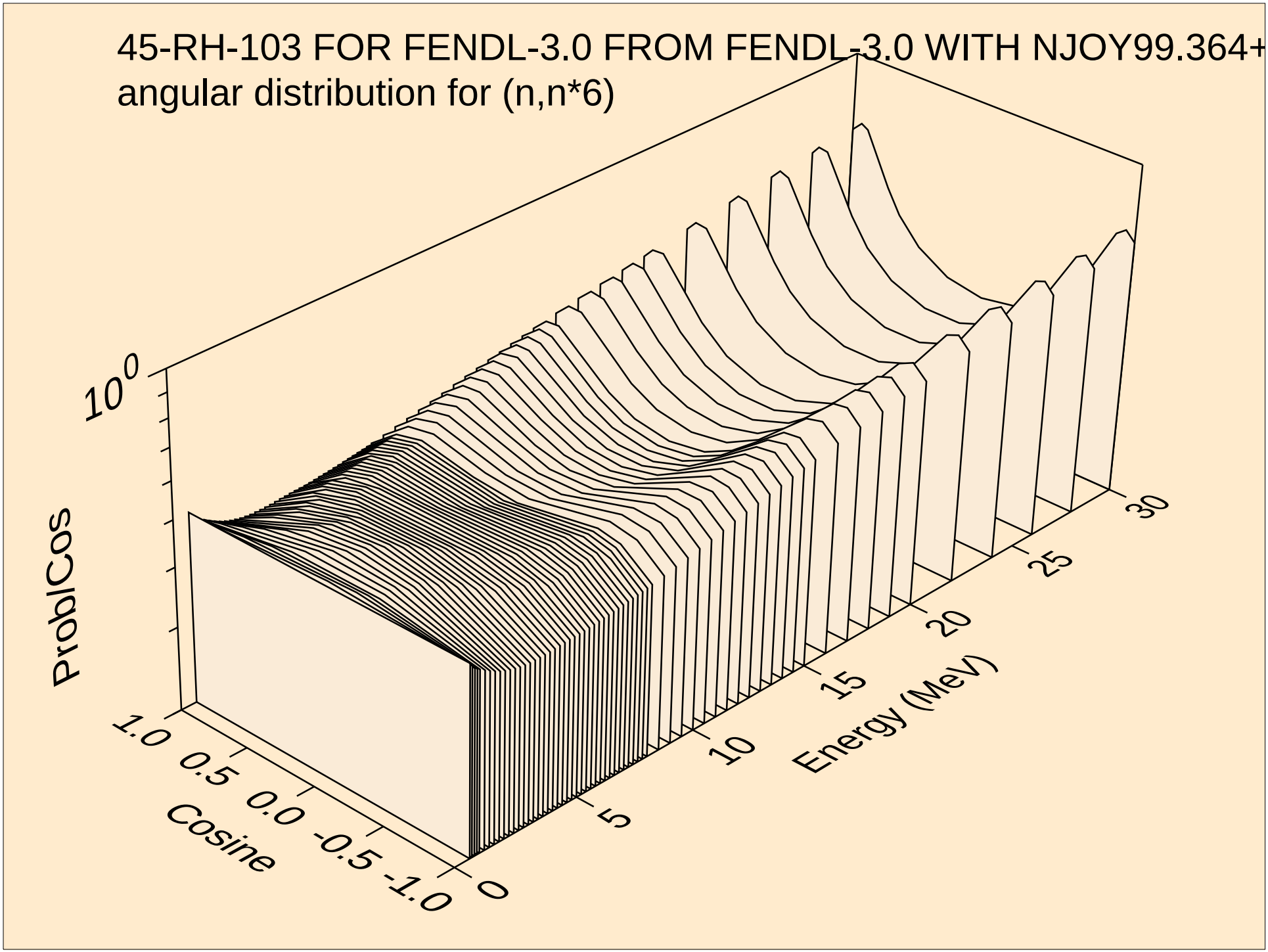

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*1)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

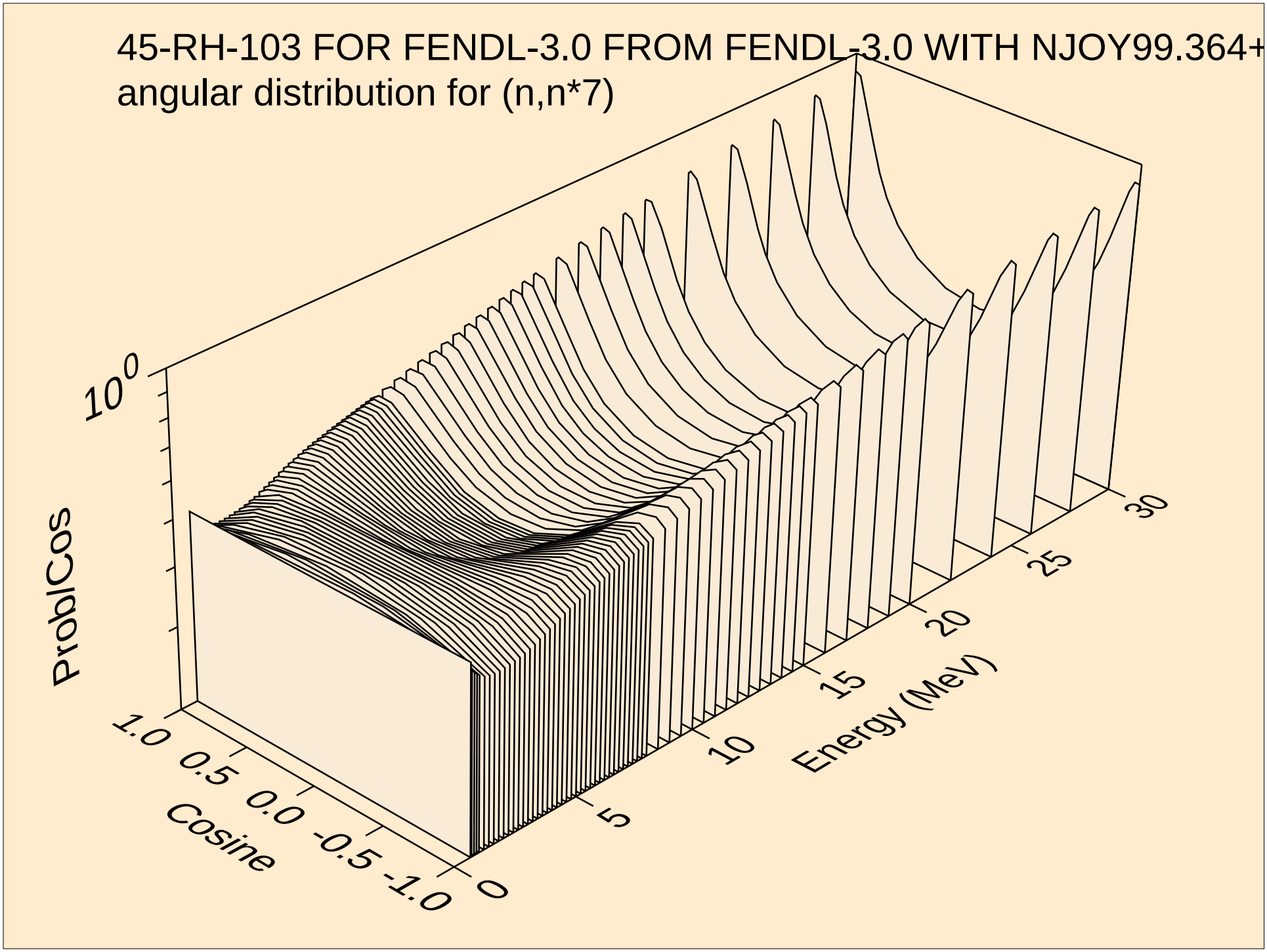

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*2)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

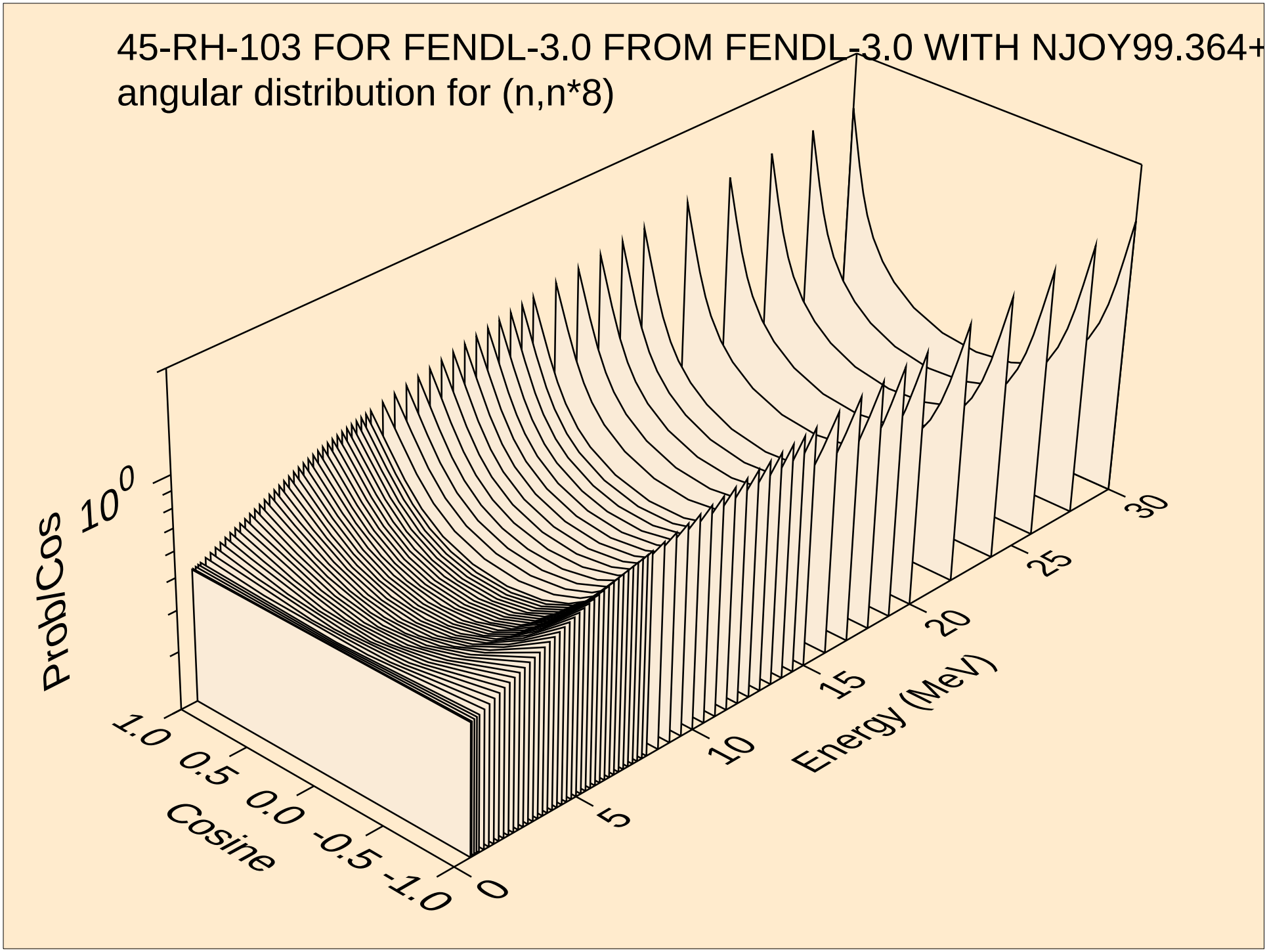

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*3)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

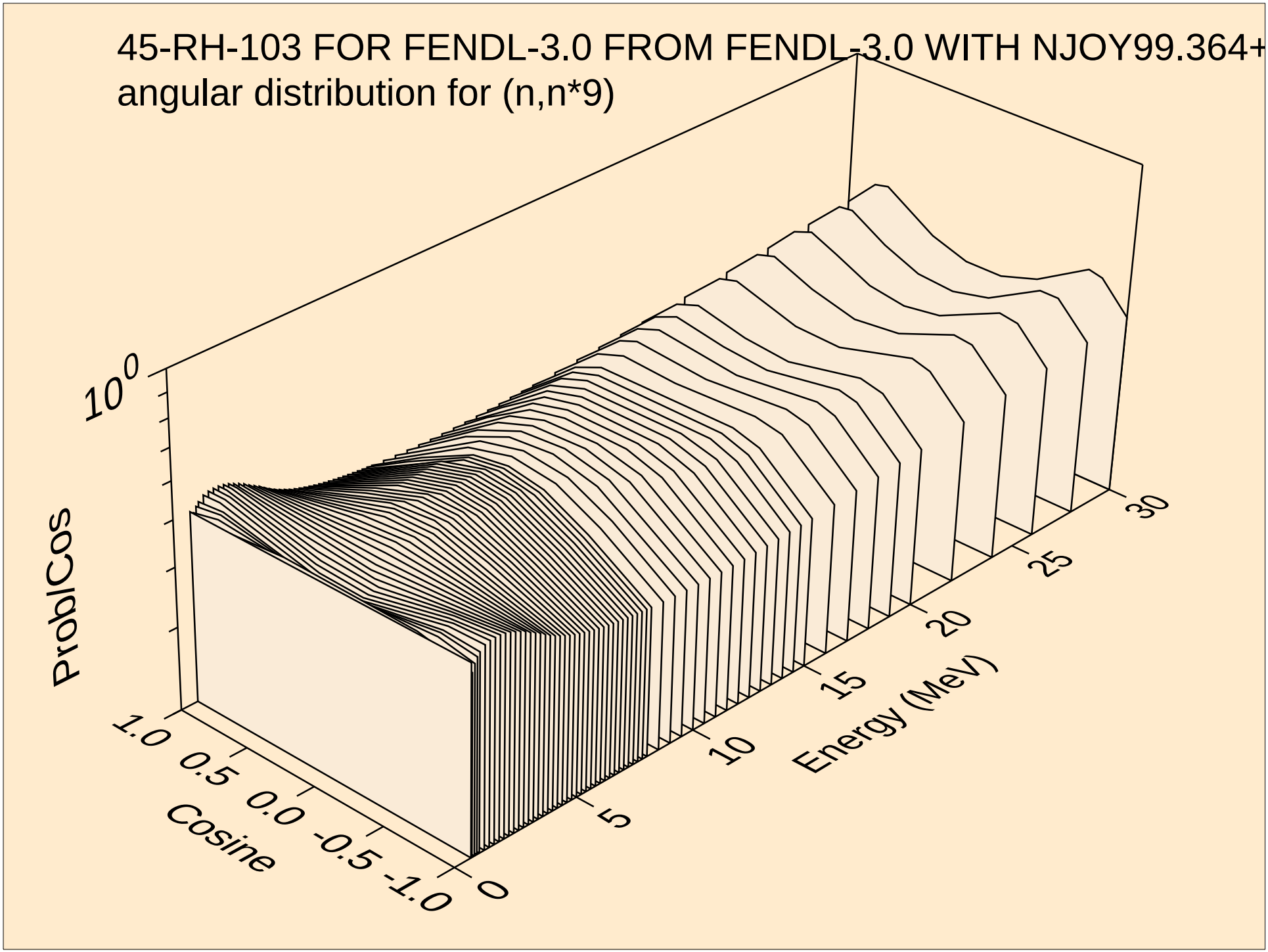

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*4)
Prob\Cos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

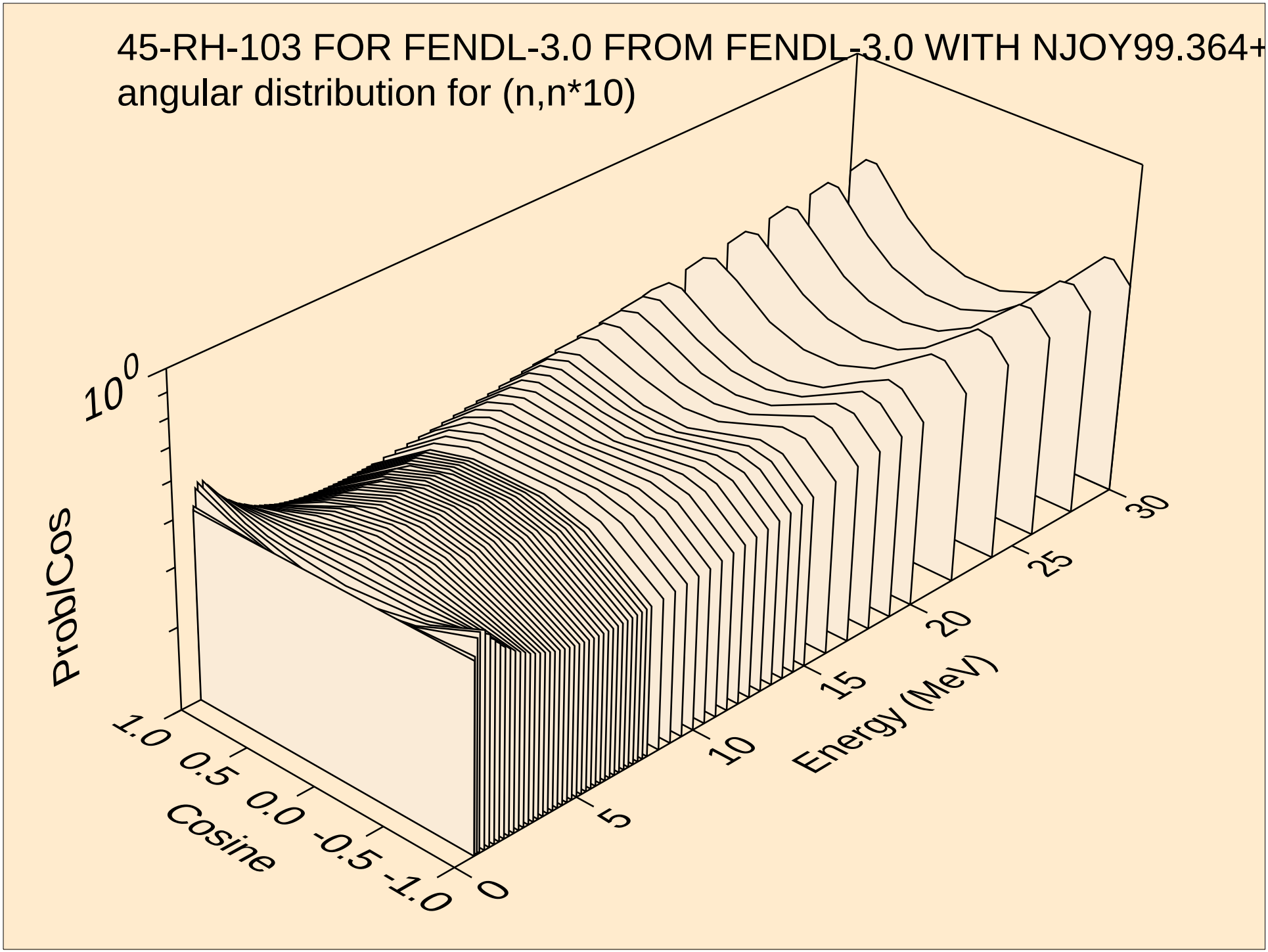

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*5)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

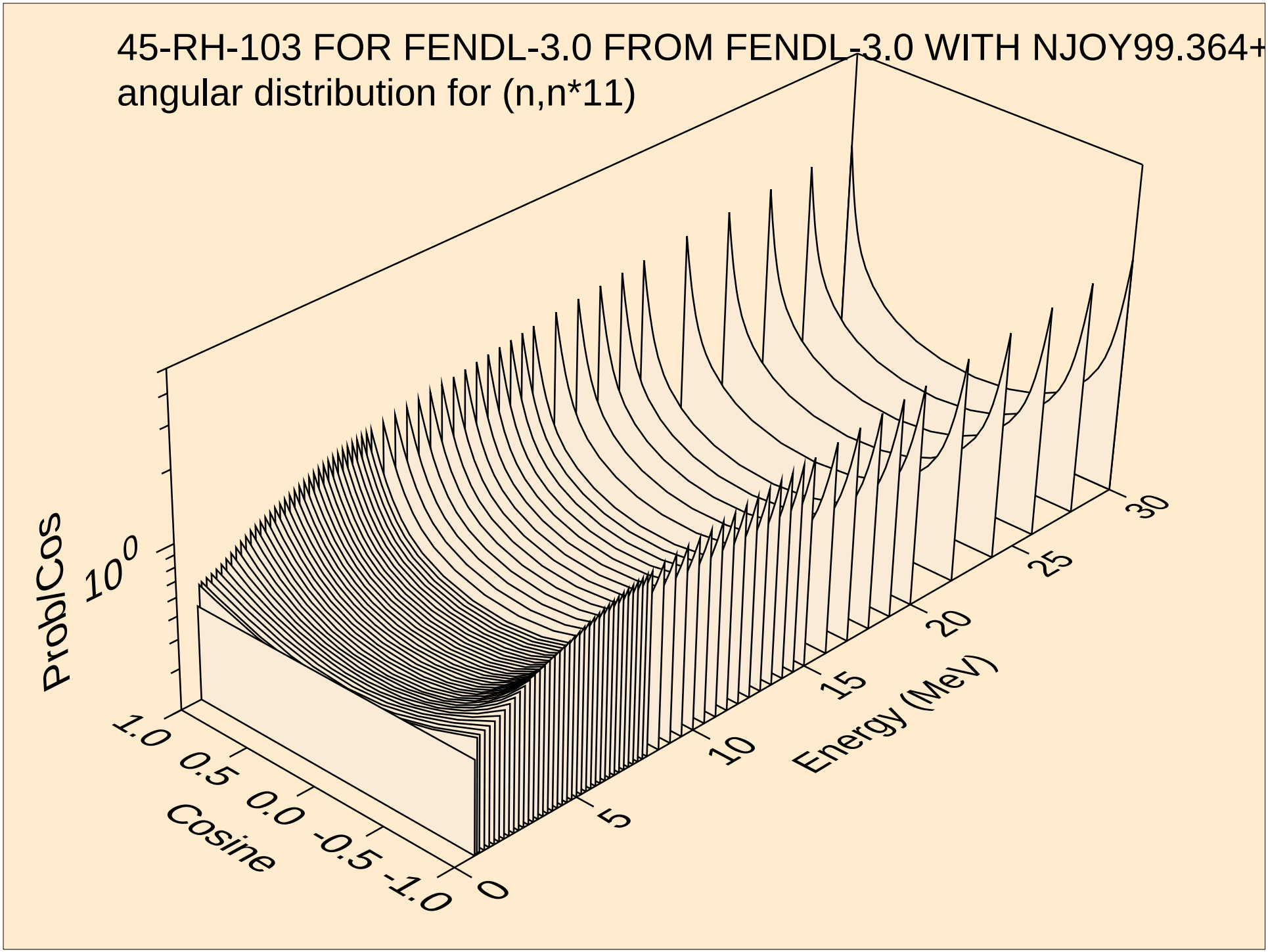

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*6)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

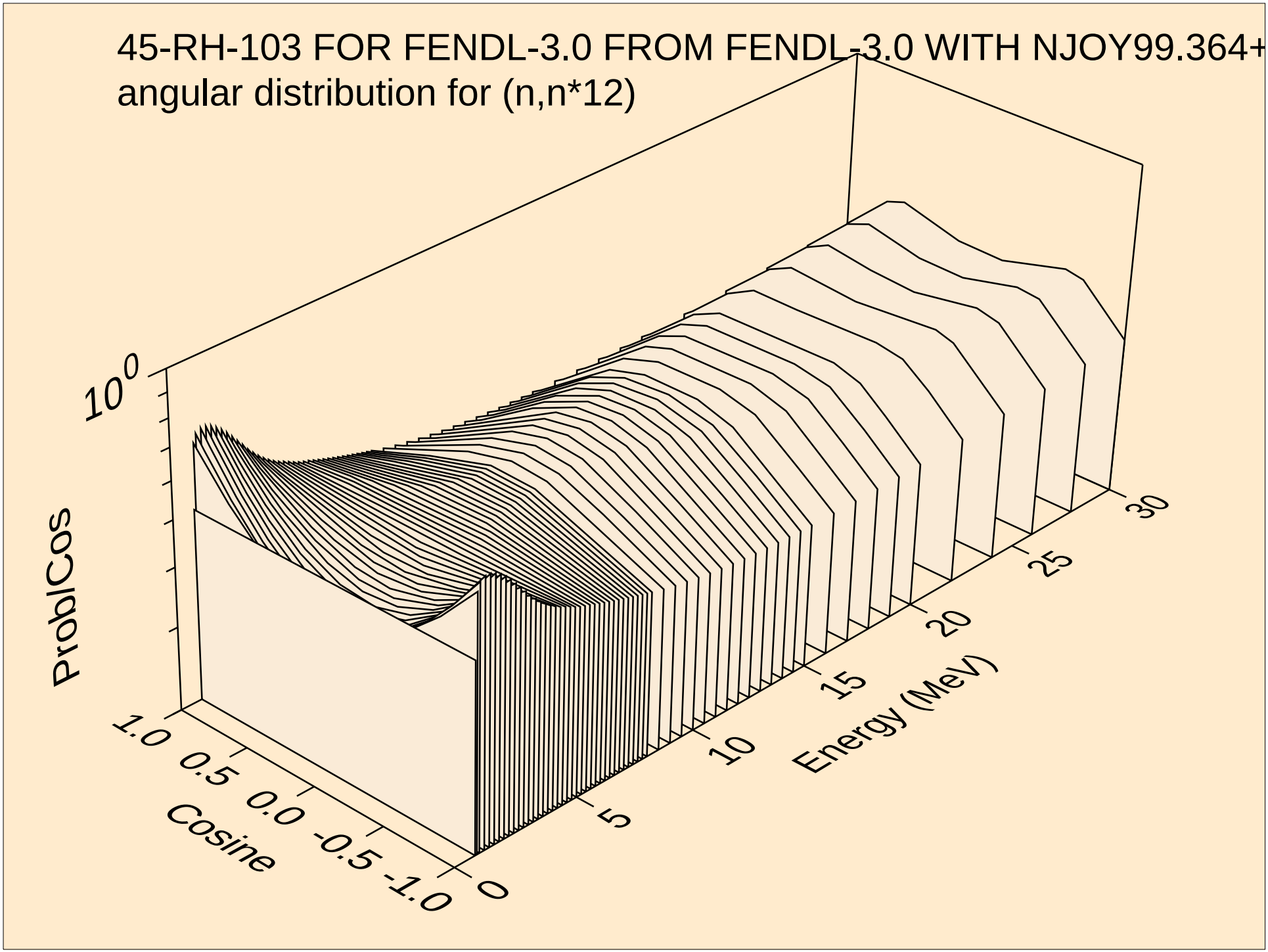

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*7)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

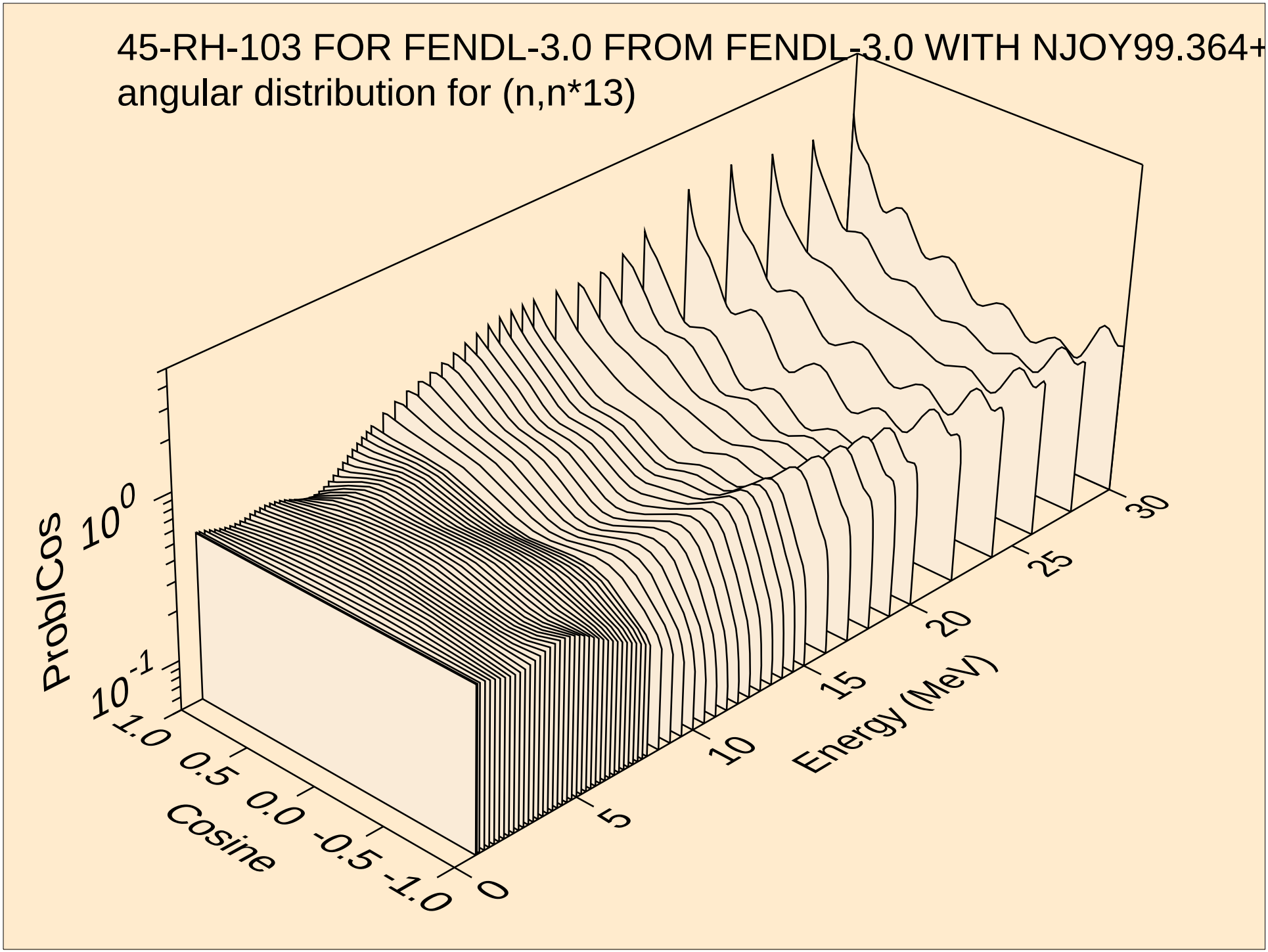

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*8)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

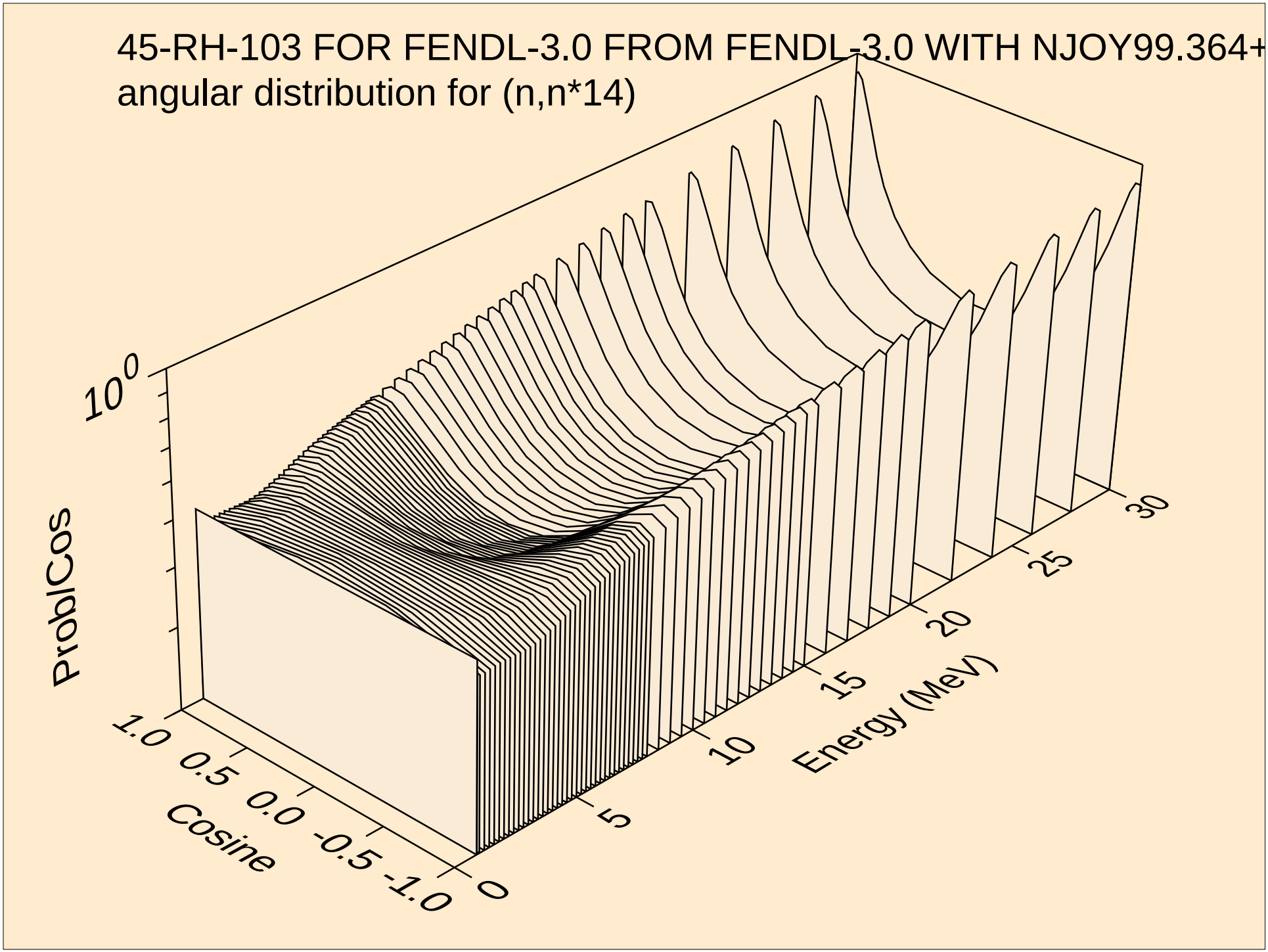

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*9)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

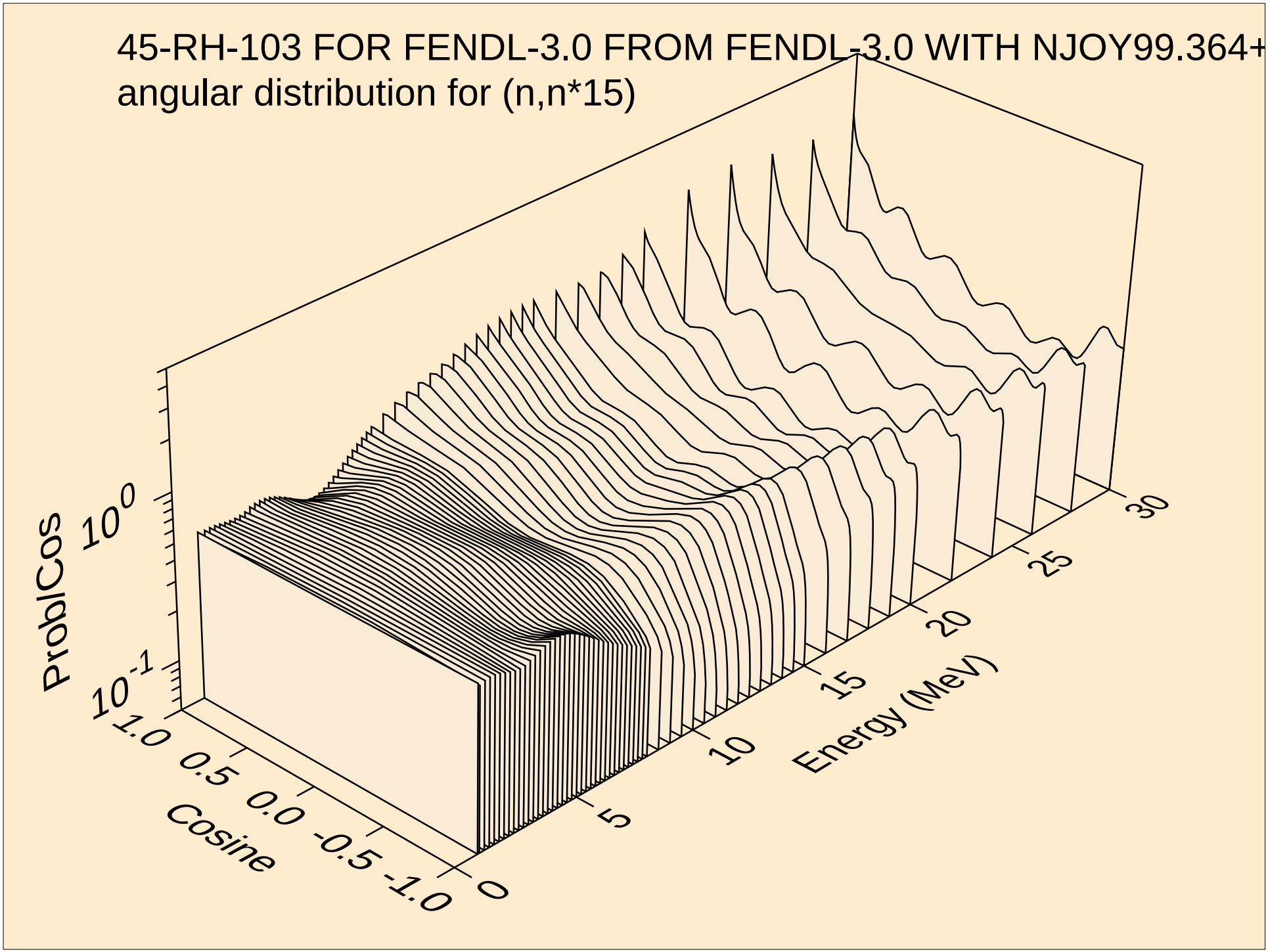

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*10)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

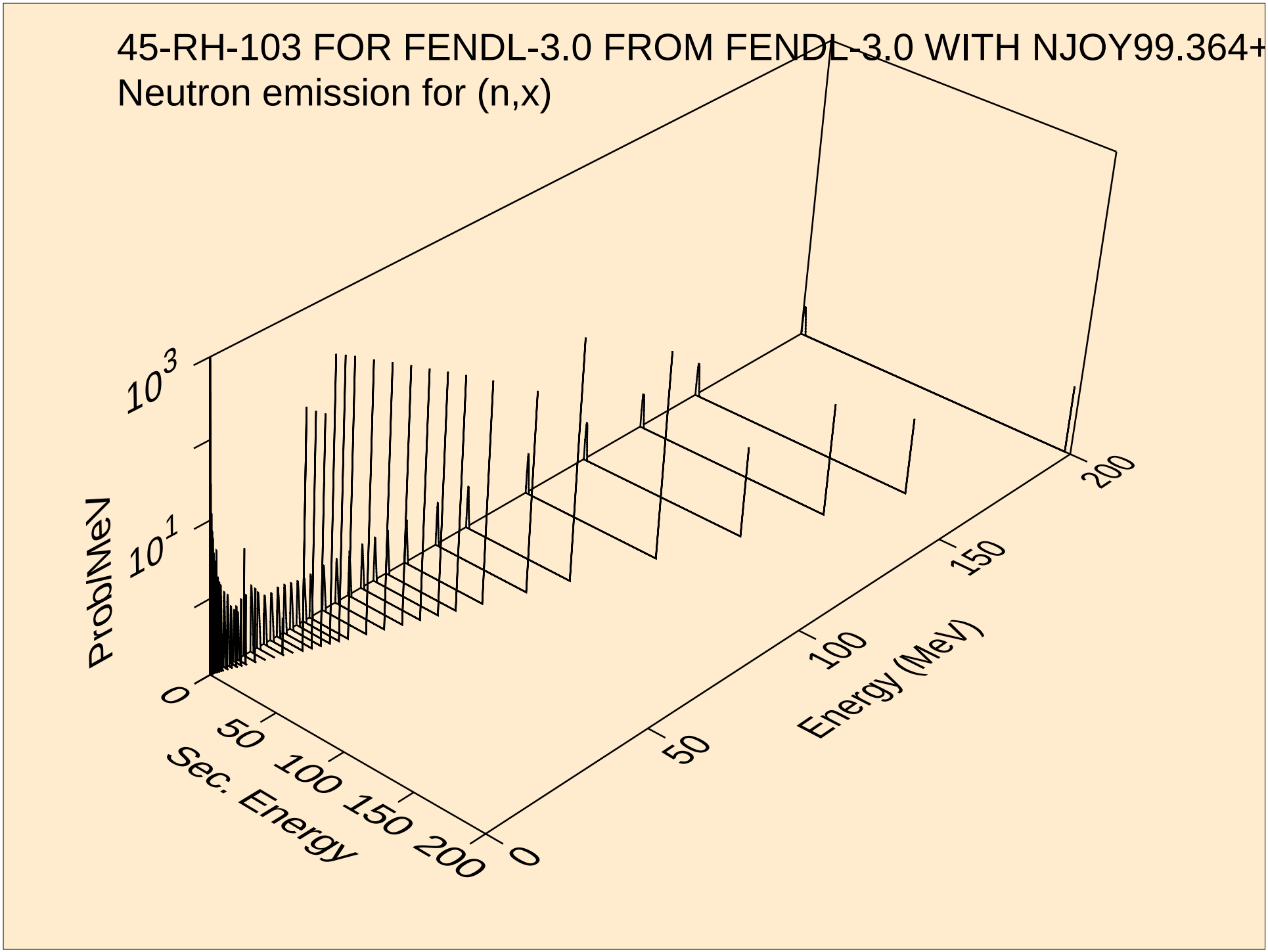

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*11)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

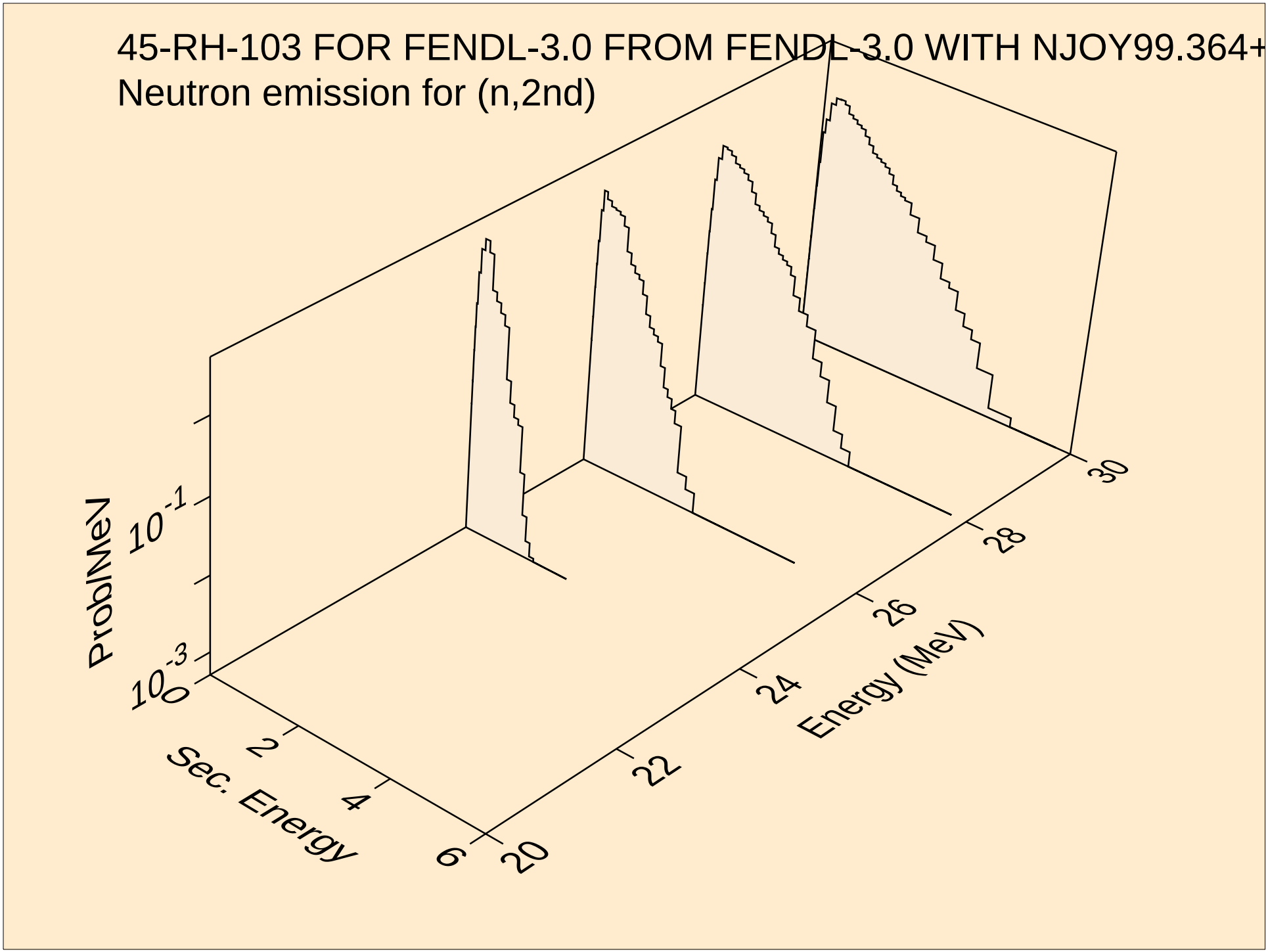

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*12)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

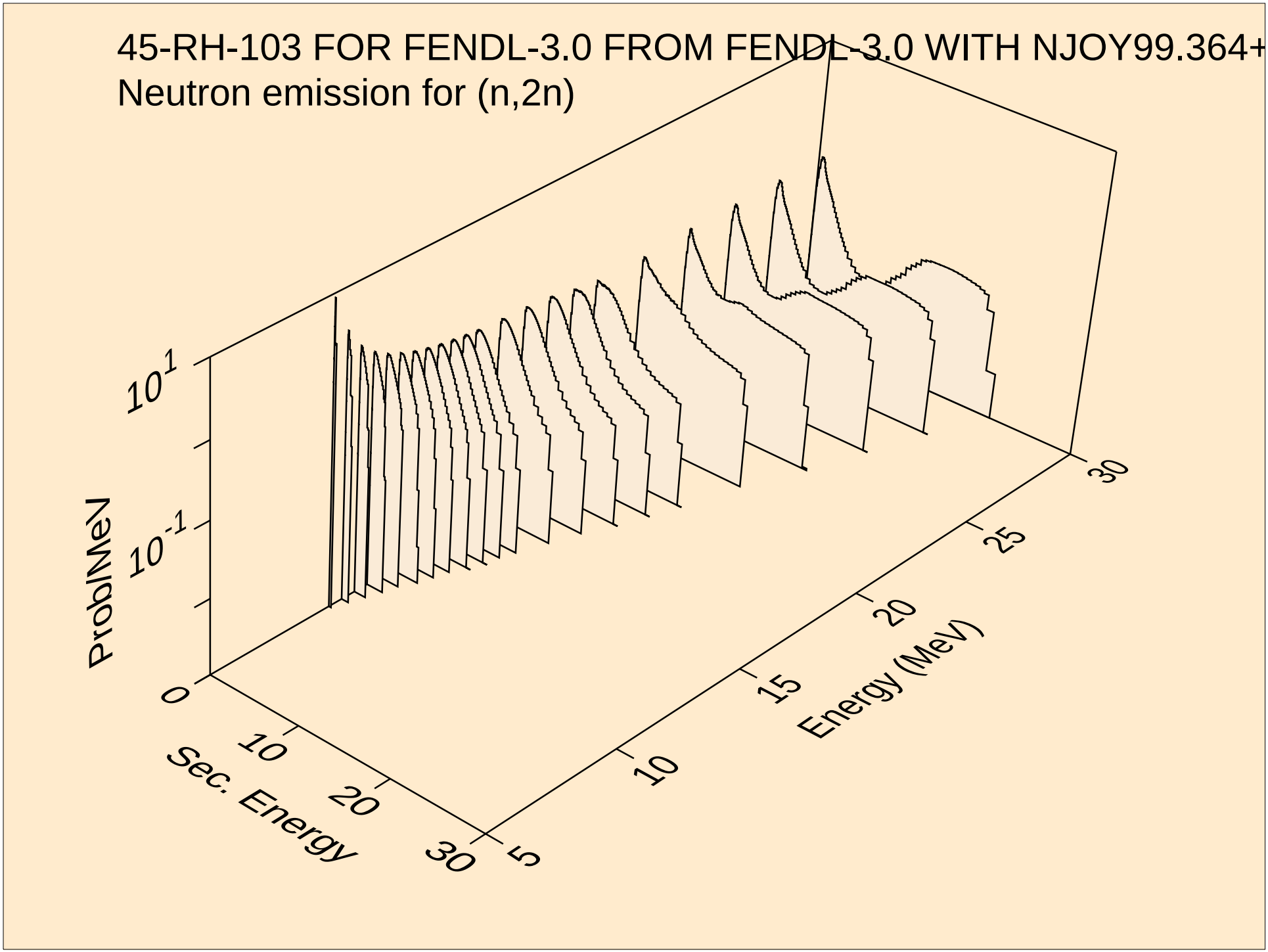

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*13)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

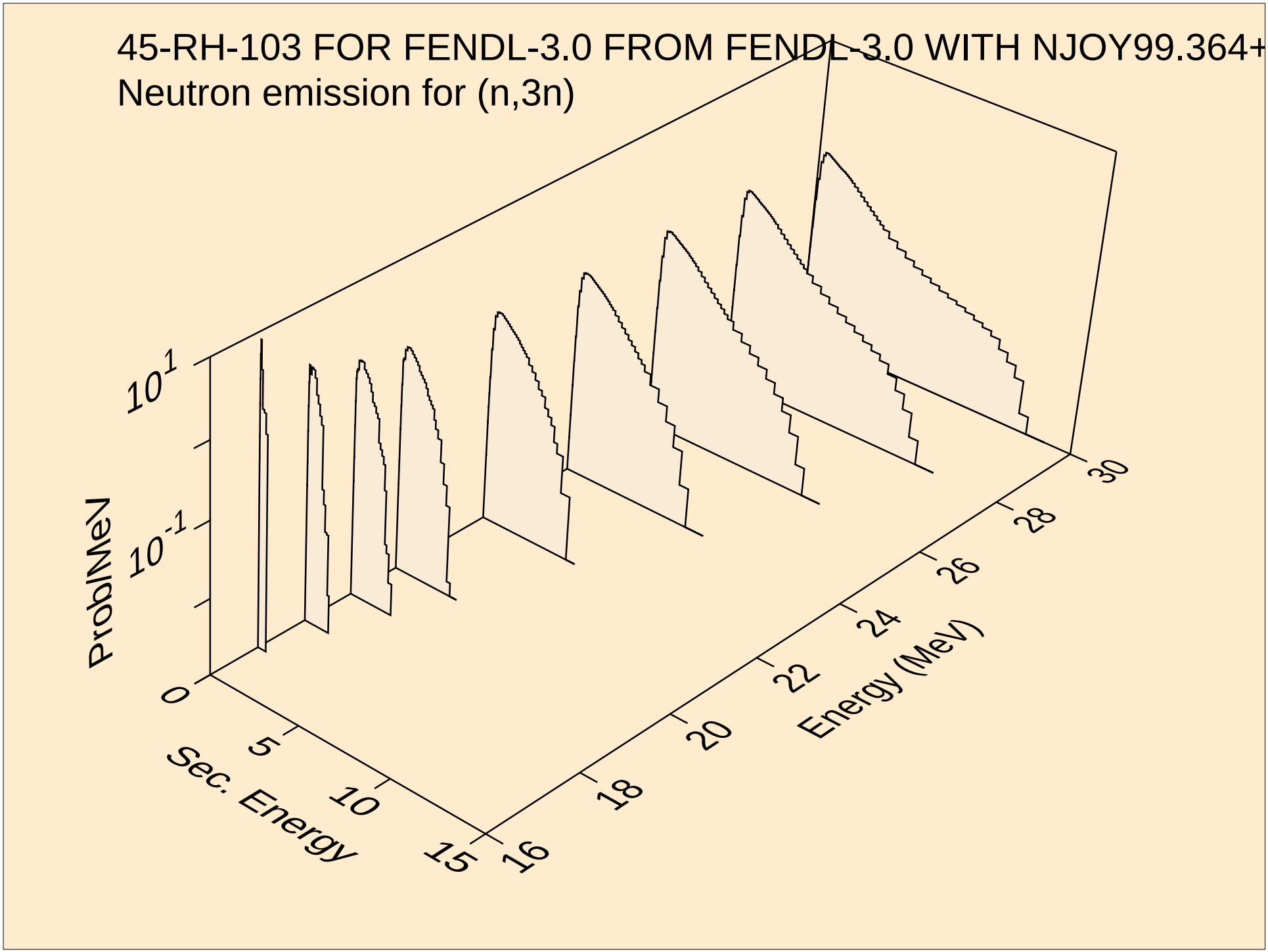

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*14)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

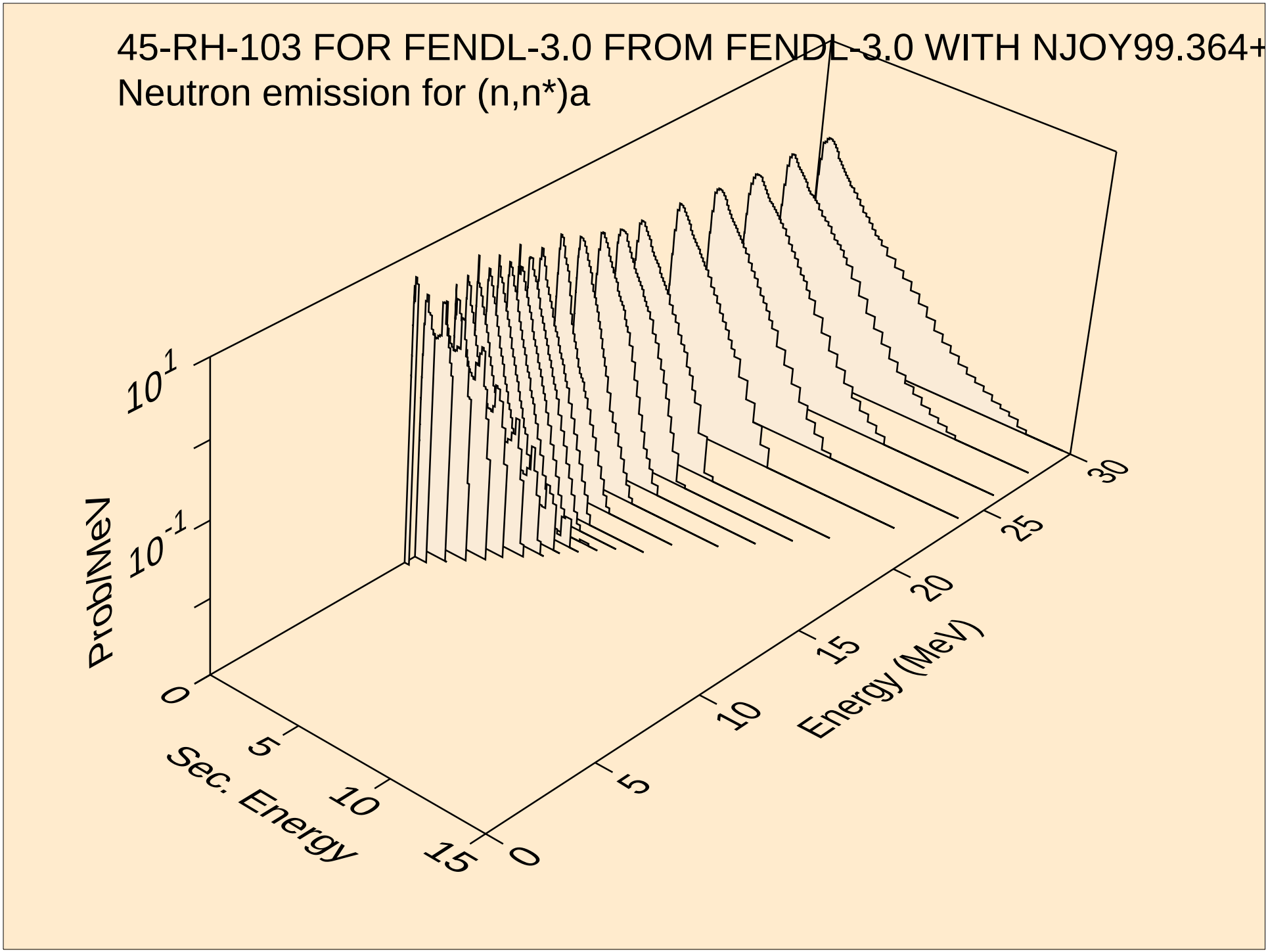

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,n*15)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

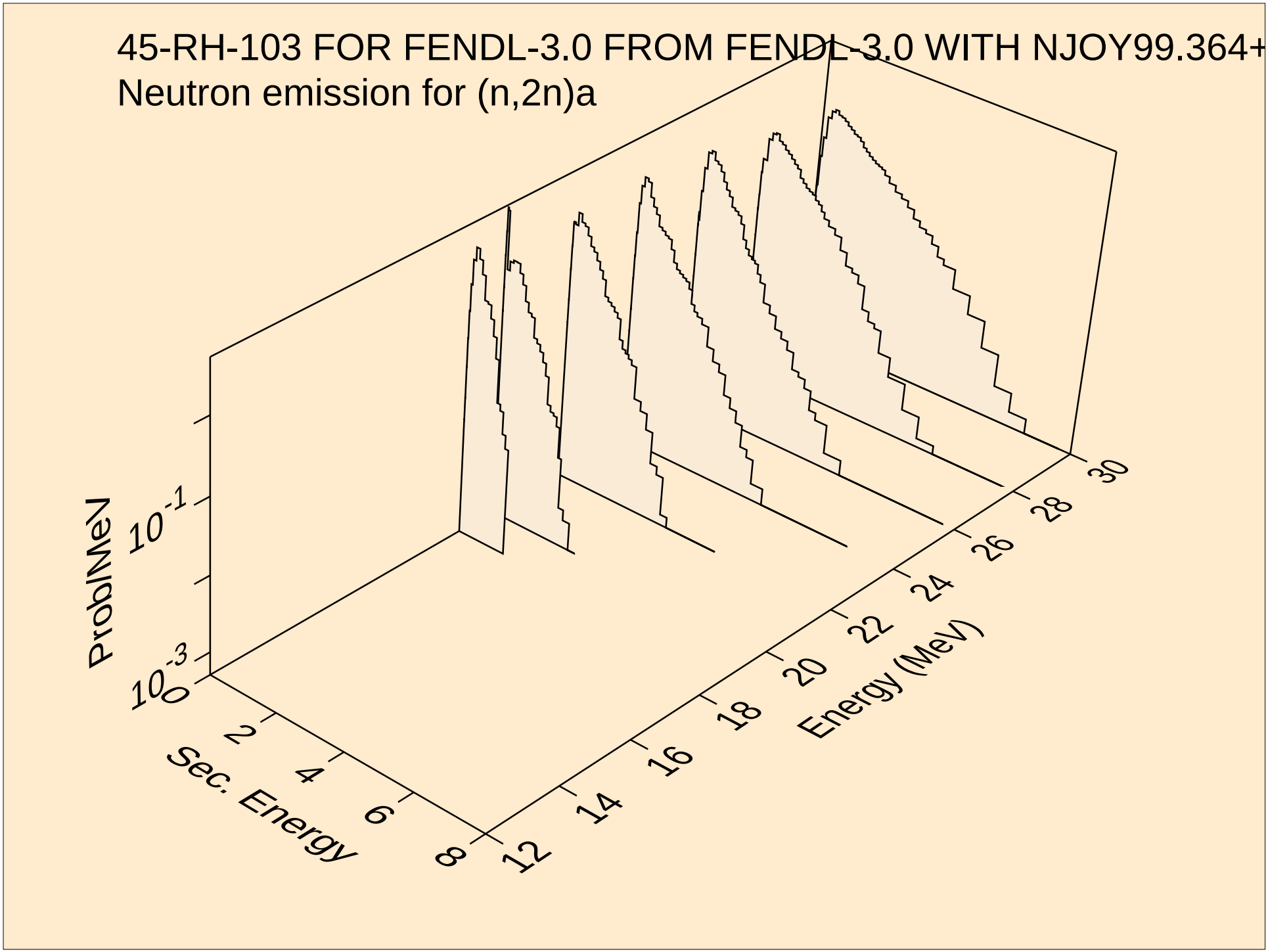

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,x)
Prob/MeV
10^3
10^1
0
50
100
150
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

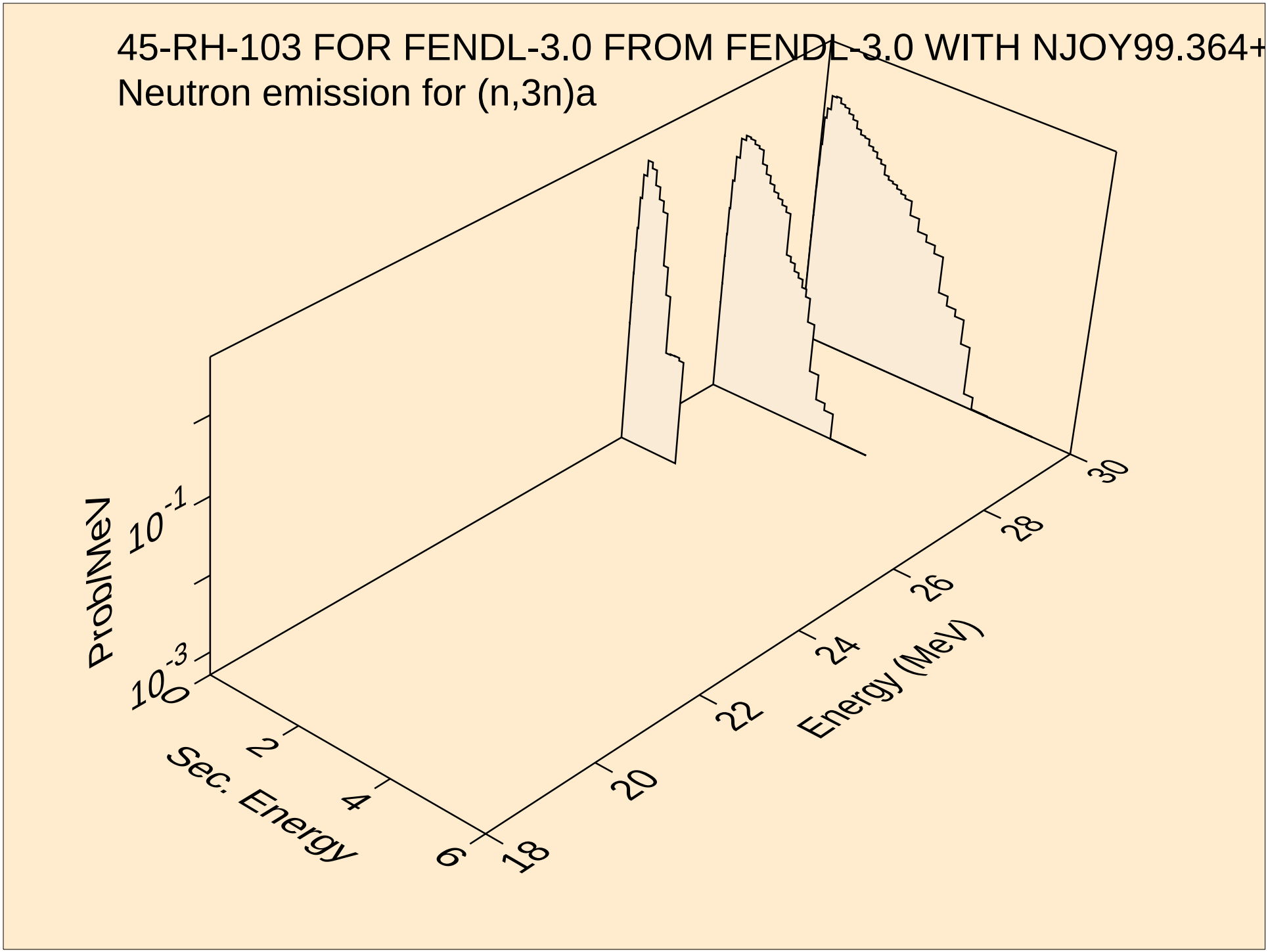

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,2nd)
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
20
22
24
26
28
30
Energy (MeV)

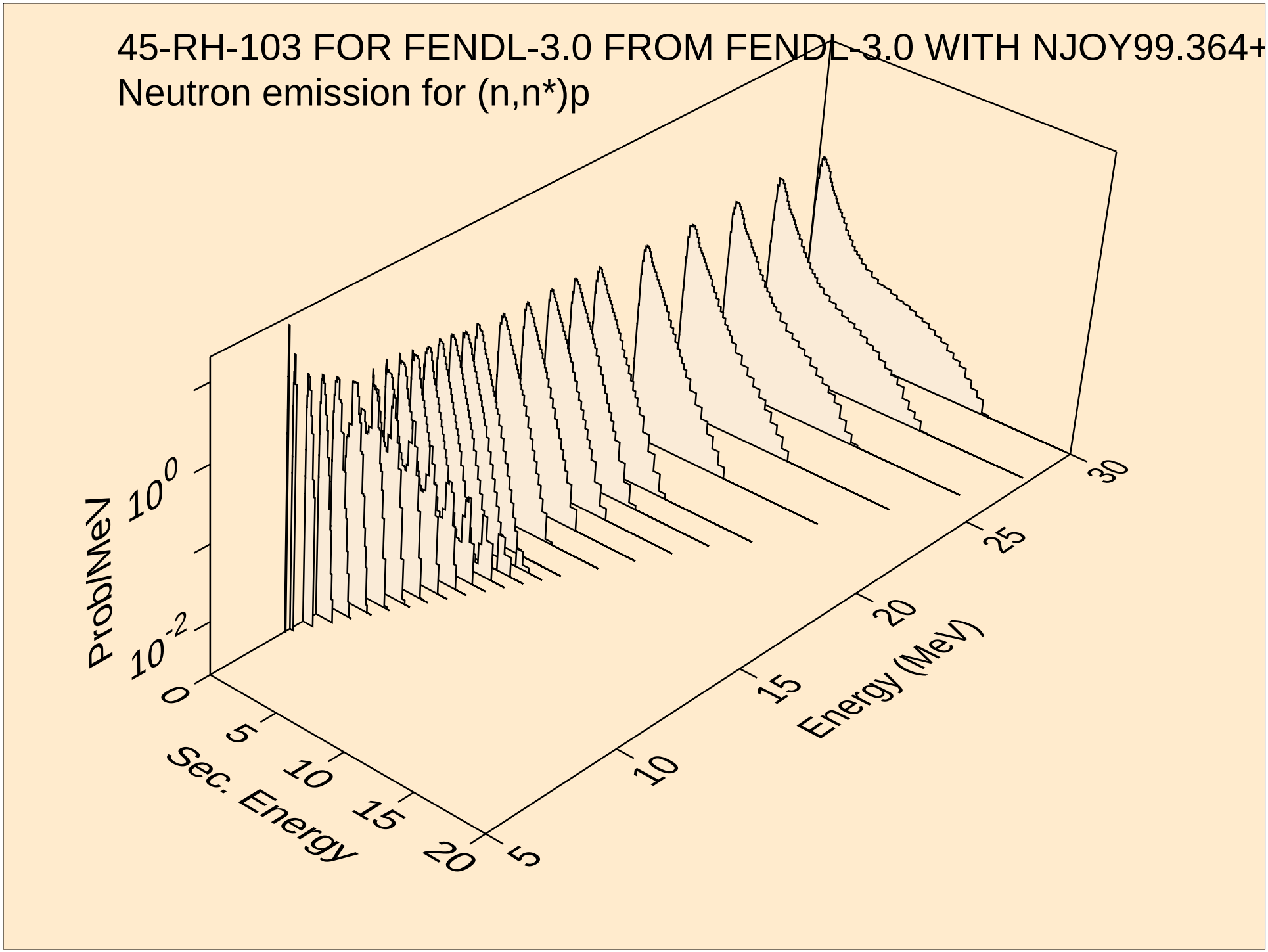

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,2n)
Prob/MeV
10^1
10^-1
0
10
20
30
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

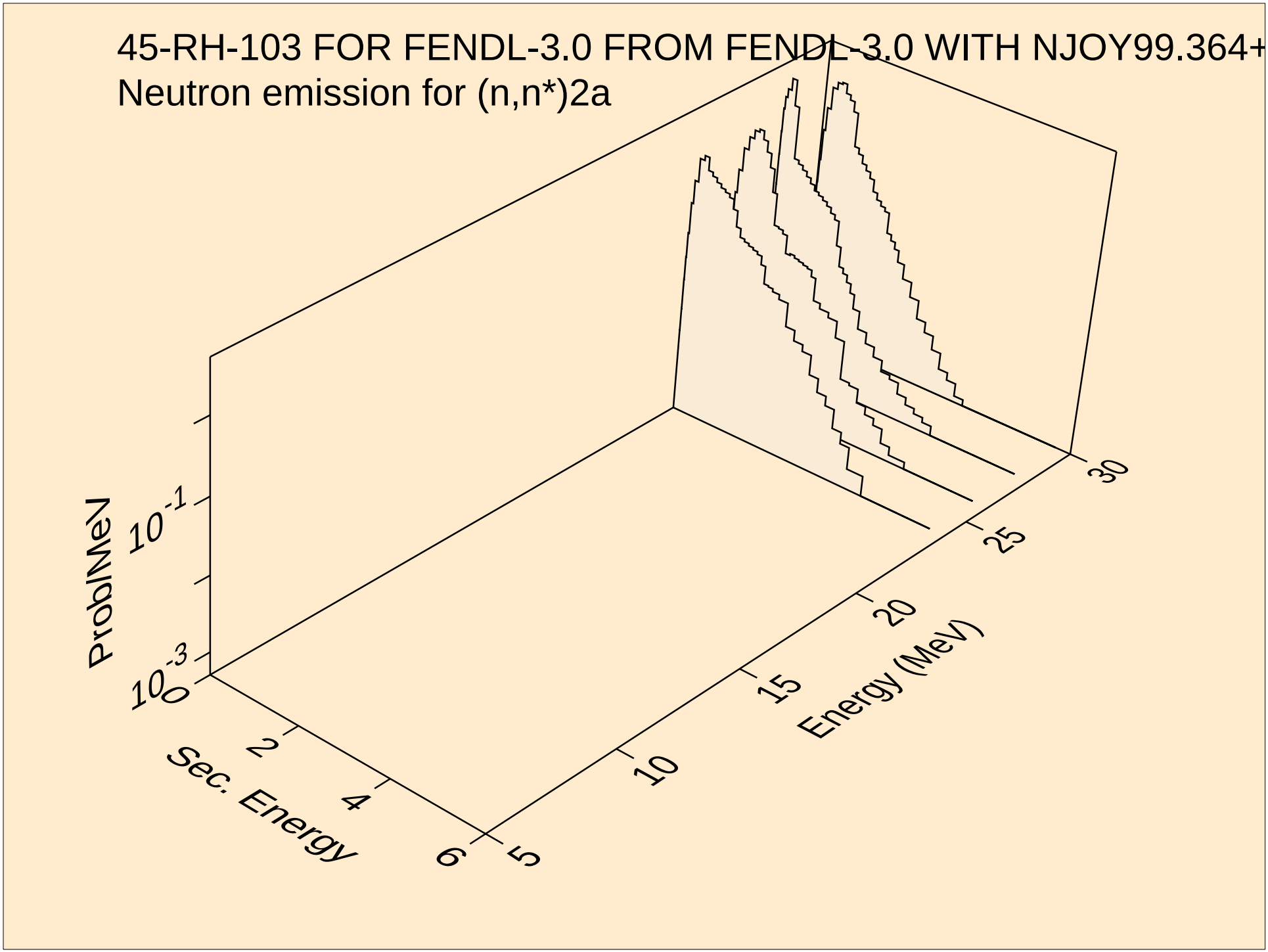

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,3n)
Prob/MeV
10^1
10^-1
0
Sec. Energy
5
10
15
16
18
20
22
24
26
28
30
Energy (MeV)

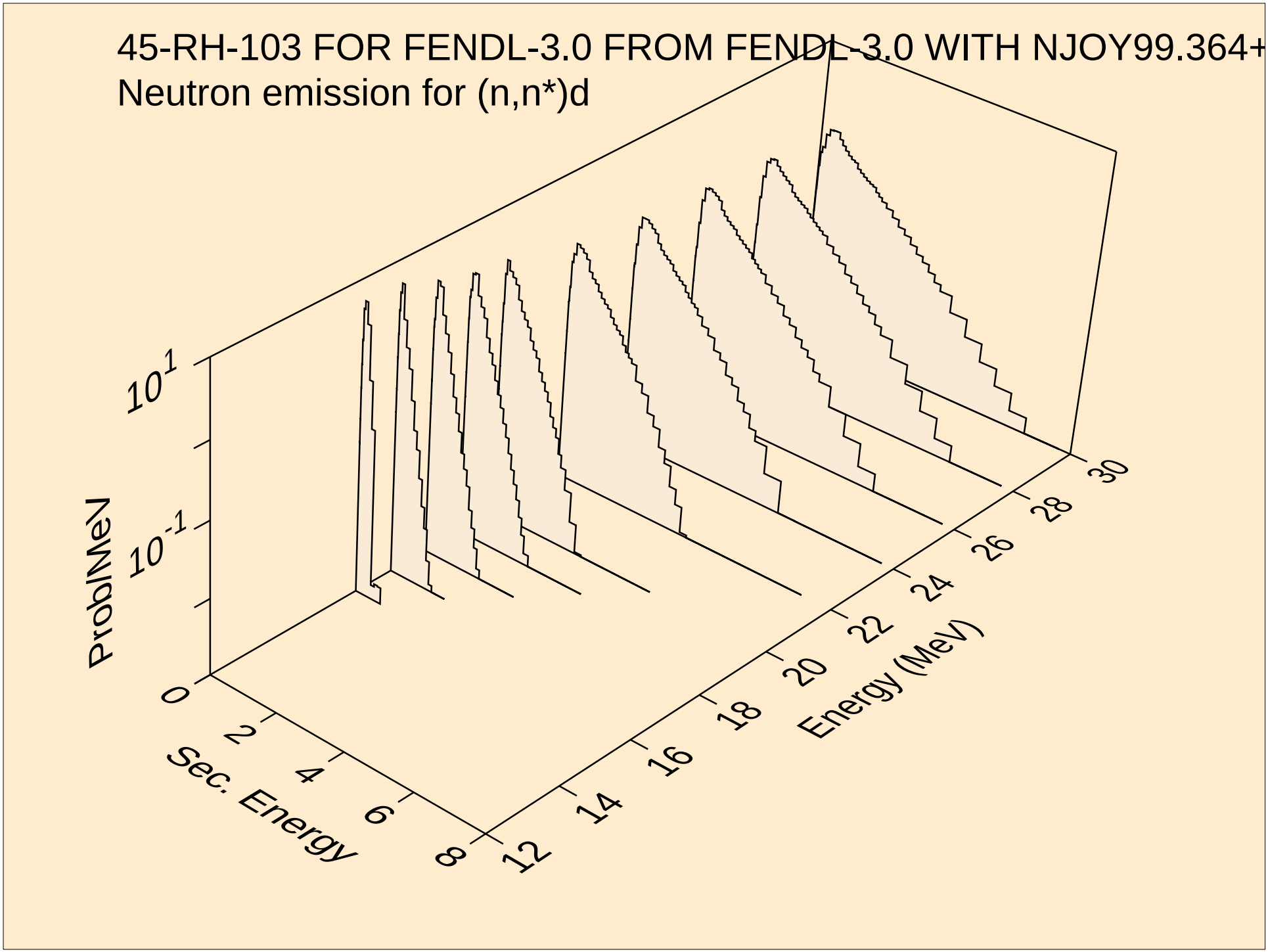

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,n*)a
Prob/MeV
10^1
10^-1
0
Sec. Energy
5
10
15
0
5
10
15
20
25
30
Energy (MeV)

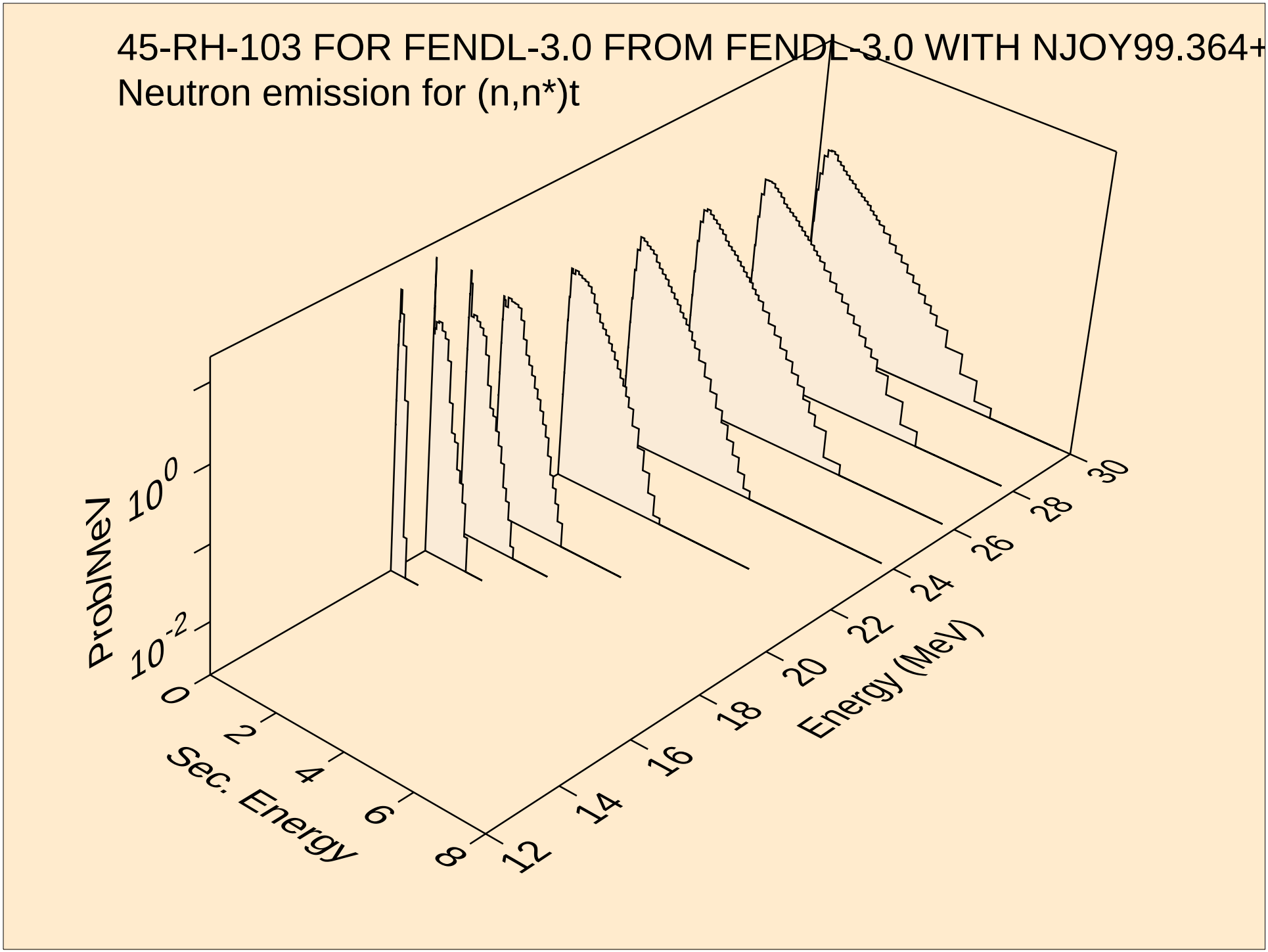

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,2n)a
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

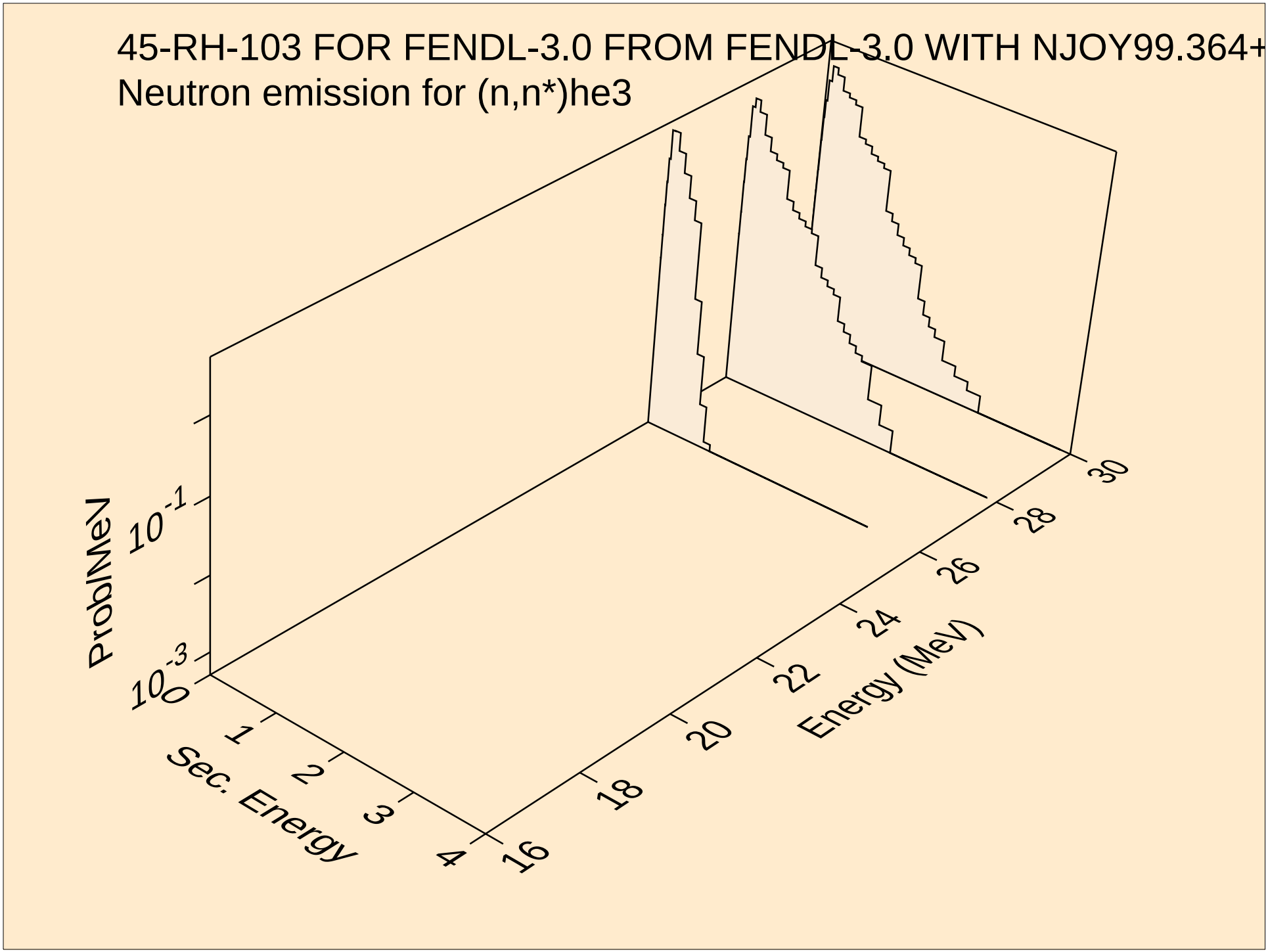

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,3n)a
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
18
20
22
24
26
28
30
Energy (MeV)

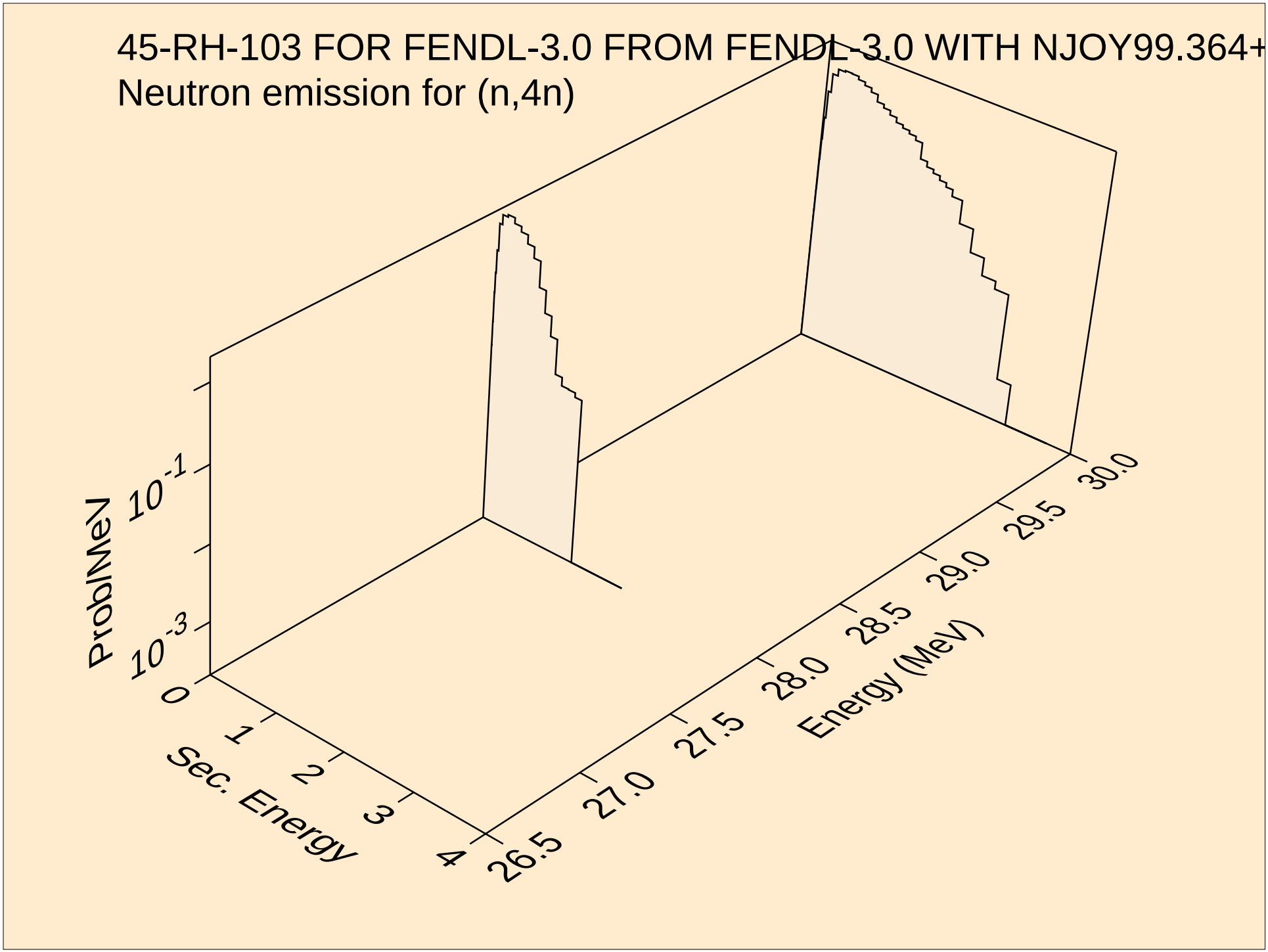

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,n*)p
Prob/MeV
10^{0}
10^{-2}
0
5
10
15
20
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

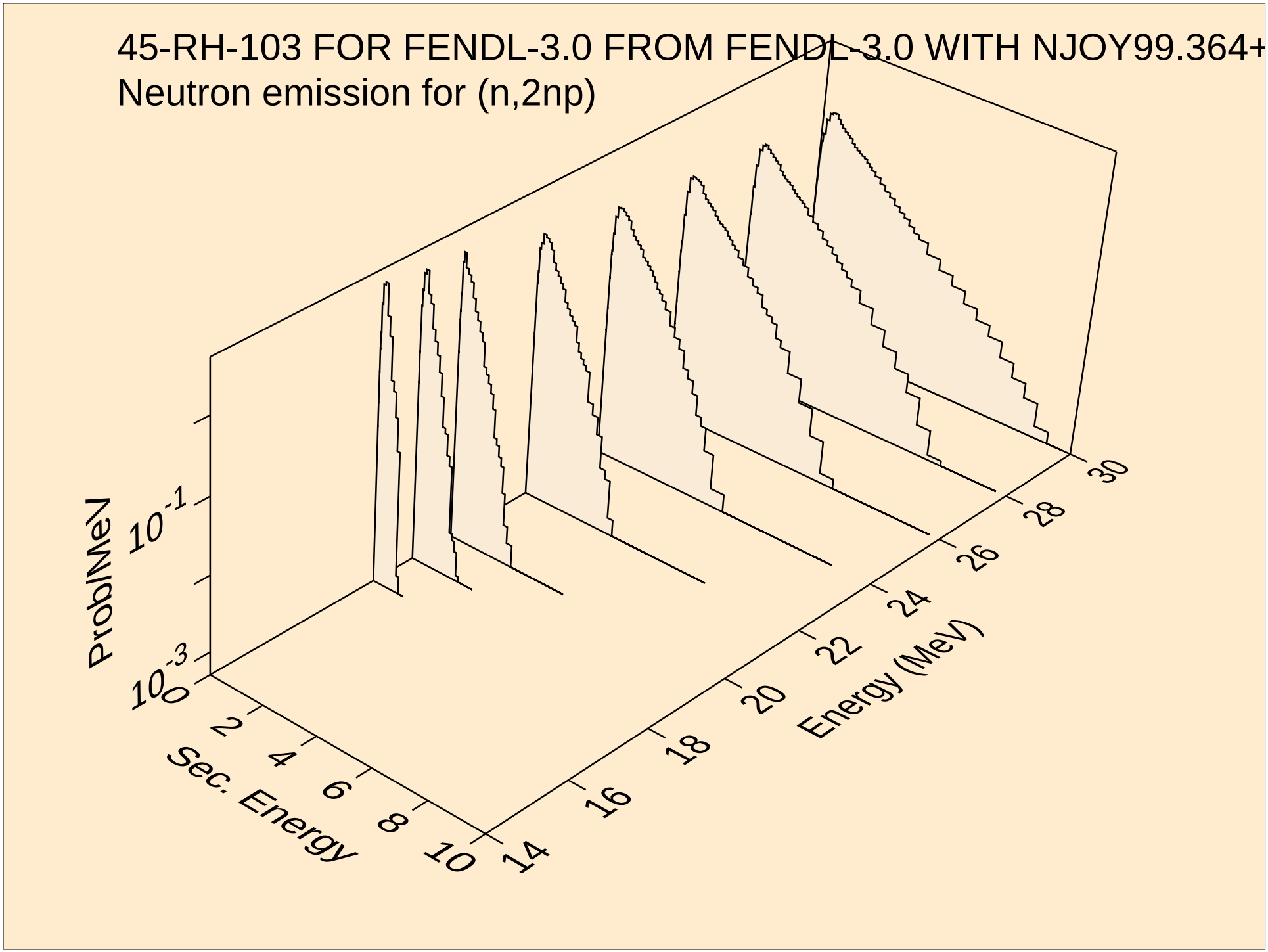

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,n*)2a
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

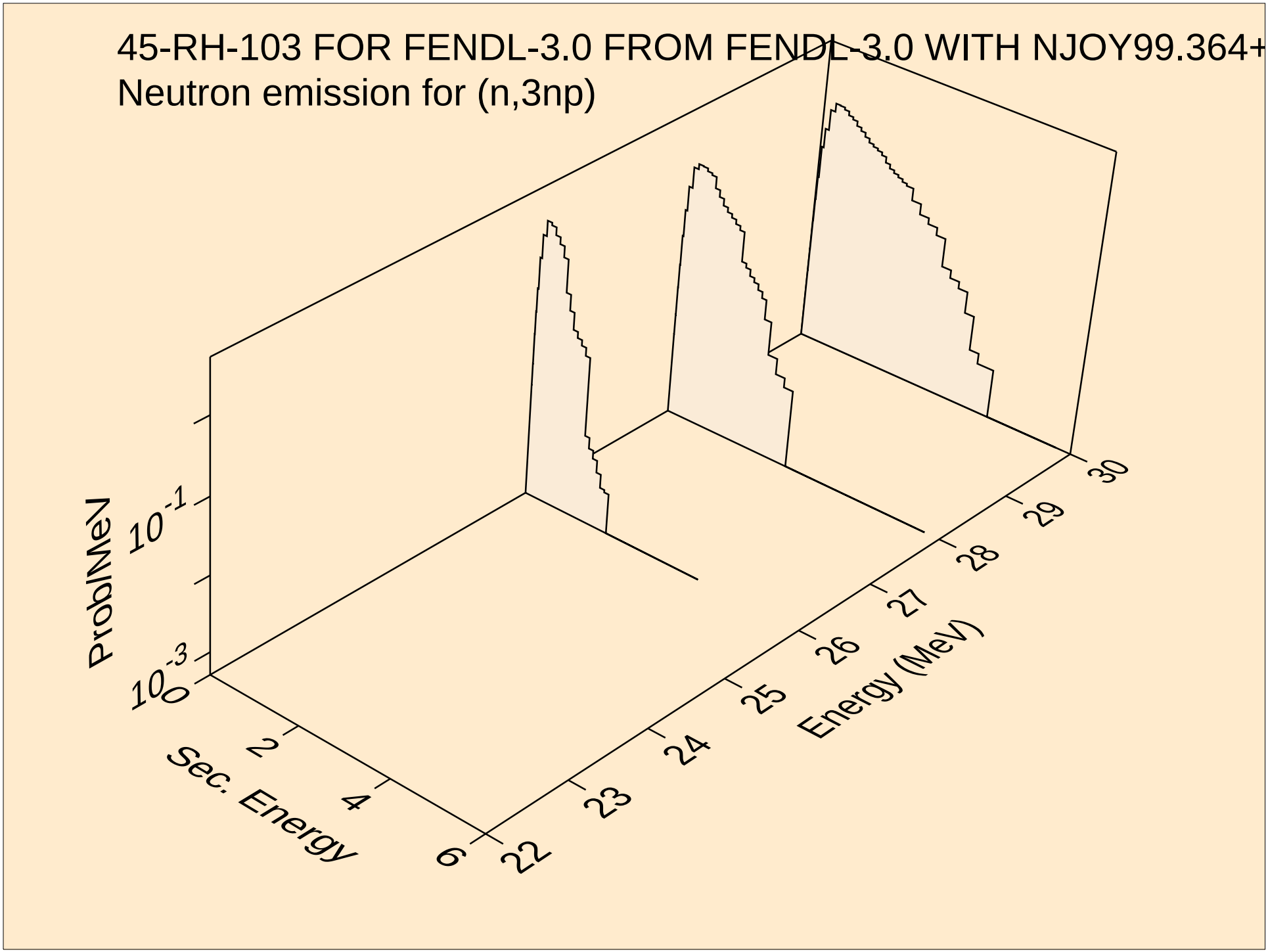

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,n*)d
Prob/MeV
10^1
10^-1
0
2
4
6
8
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

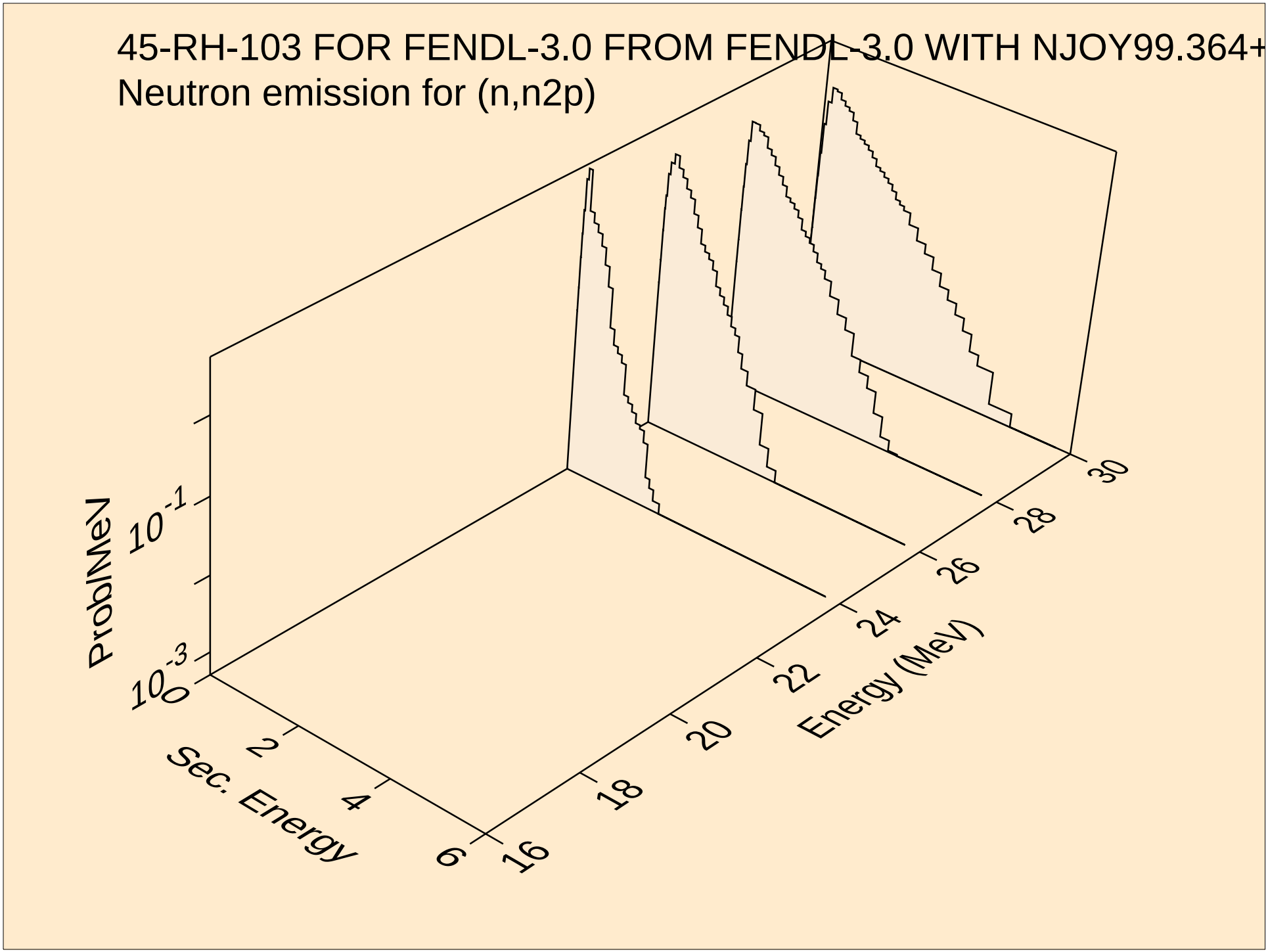

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,n*)t
Prob/MeV
10^0
10^-2
0
2
4
6
8
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

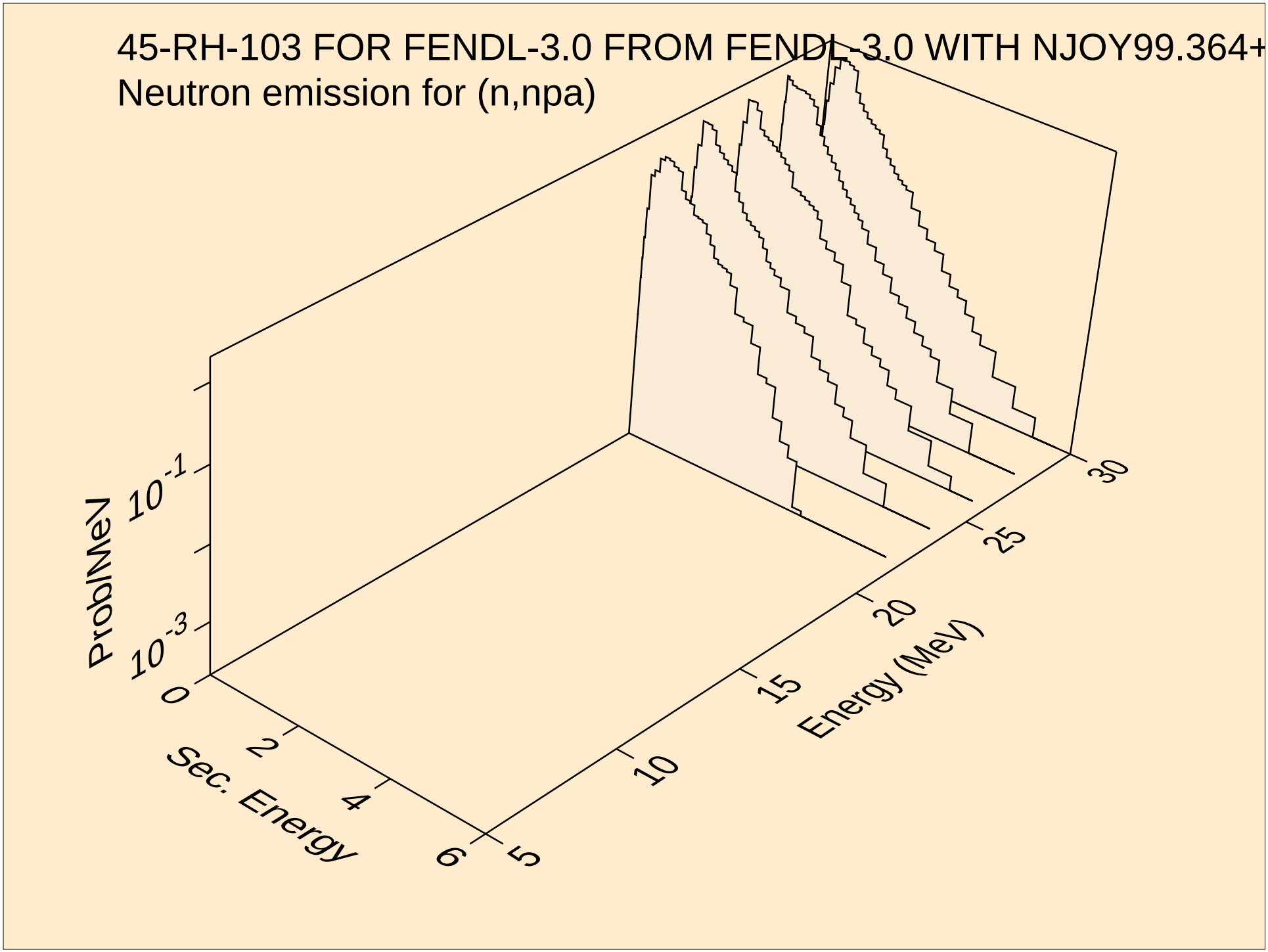

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,n*)he3
Prob/MeV
10-1
10-3
0
1
2
3
4
Sec. Energy
16
18
20
22
24
26
28
30
Energy (MeV)

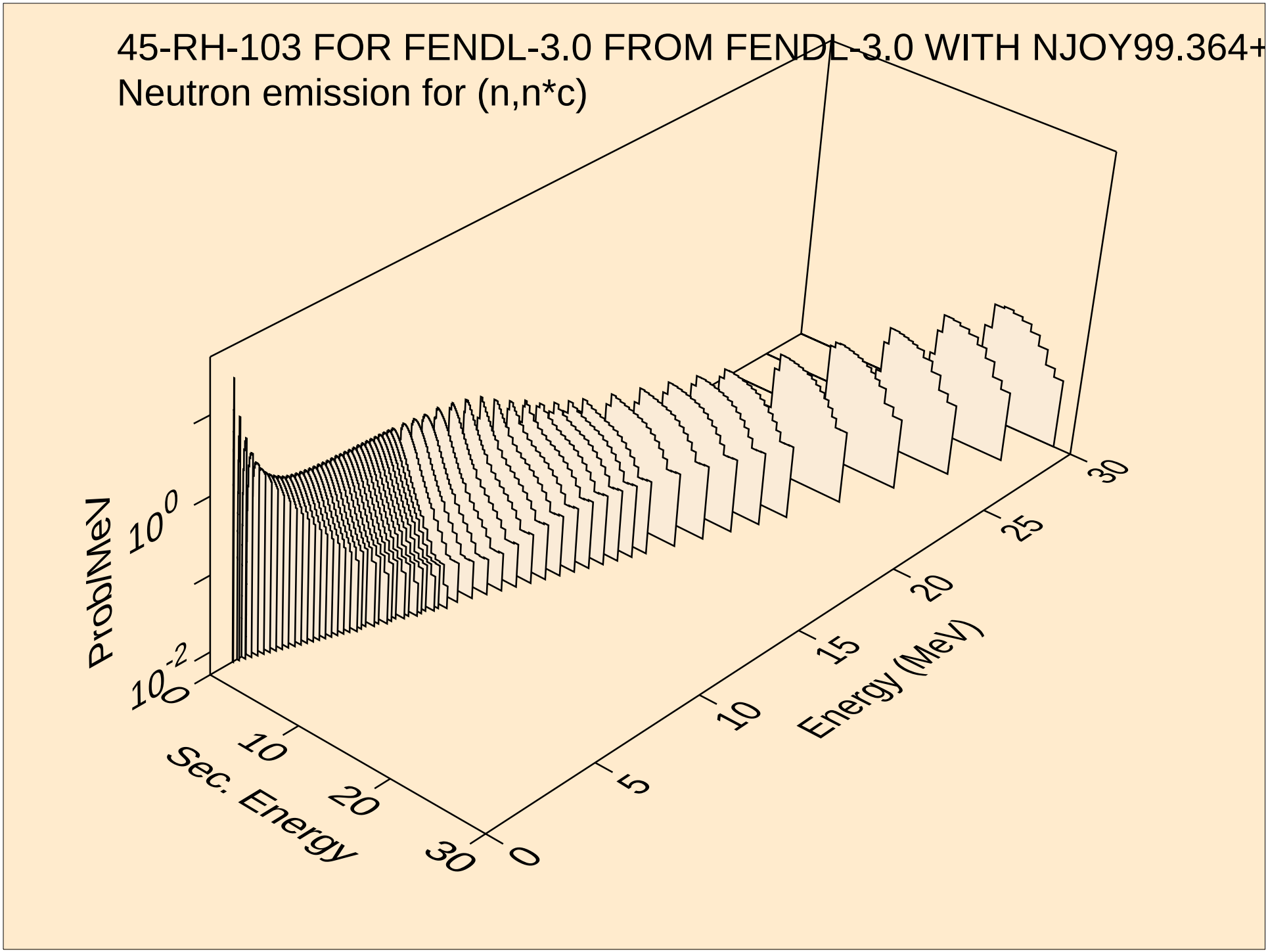

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,4n)
Prob/MeV
10-1
10-3
0
1
2
3
4
Sec. Energy
26.5
27.0
27.5
28.0
28.5
29.0
29.5
30.0
Energy (MeV)

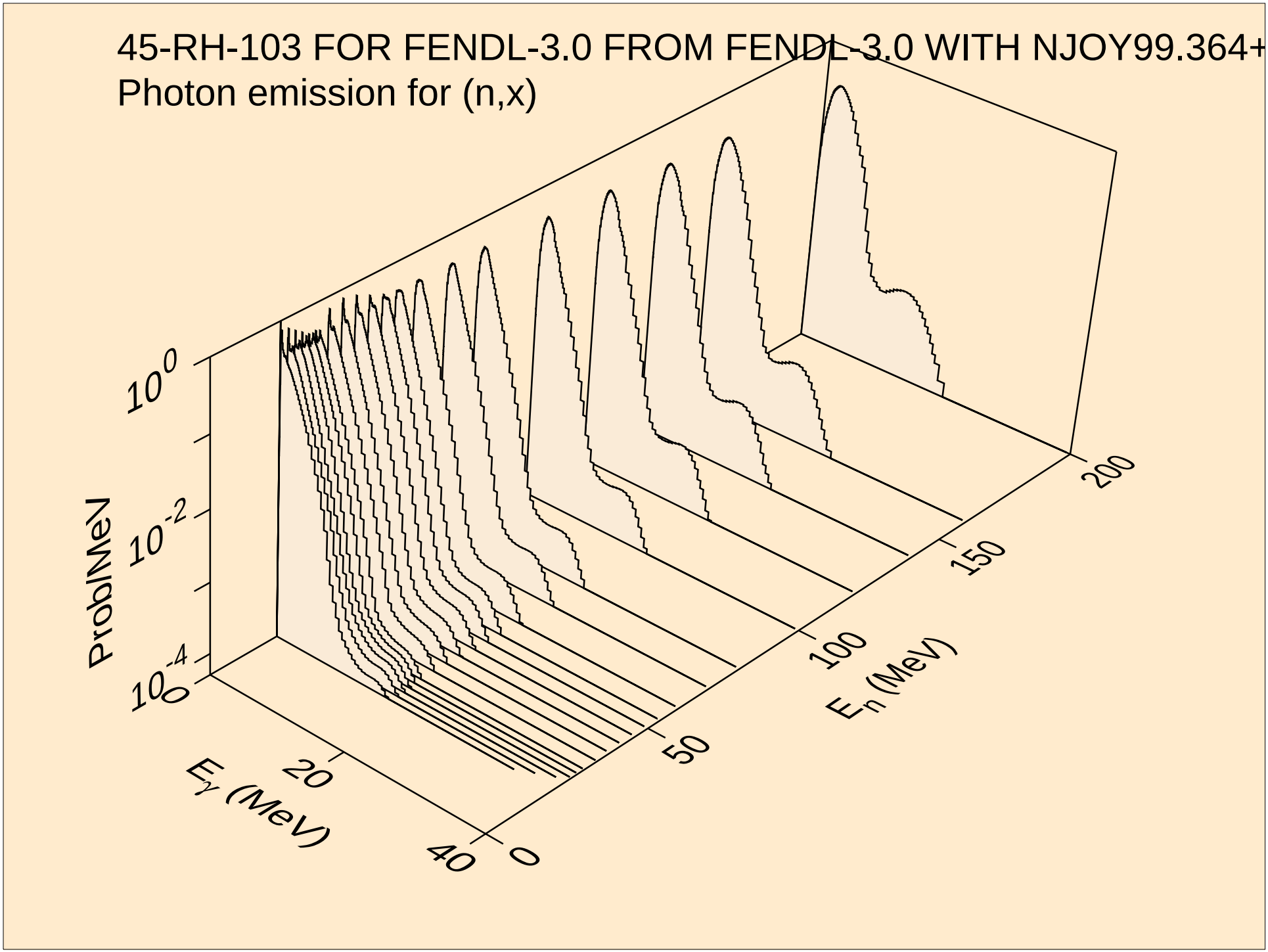

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,2np)
Prob/MeV
10-1
10-3
0
2
4
6
8
10
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

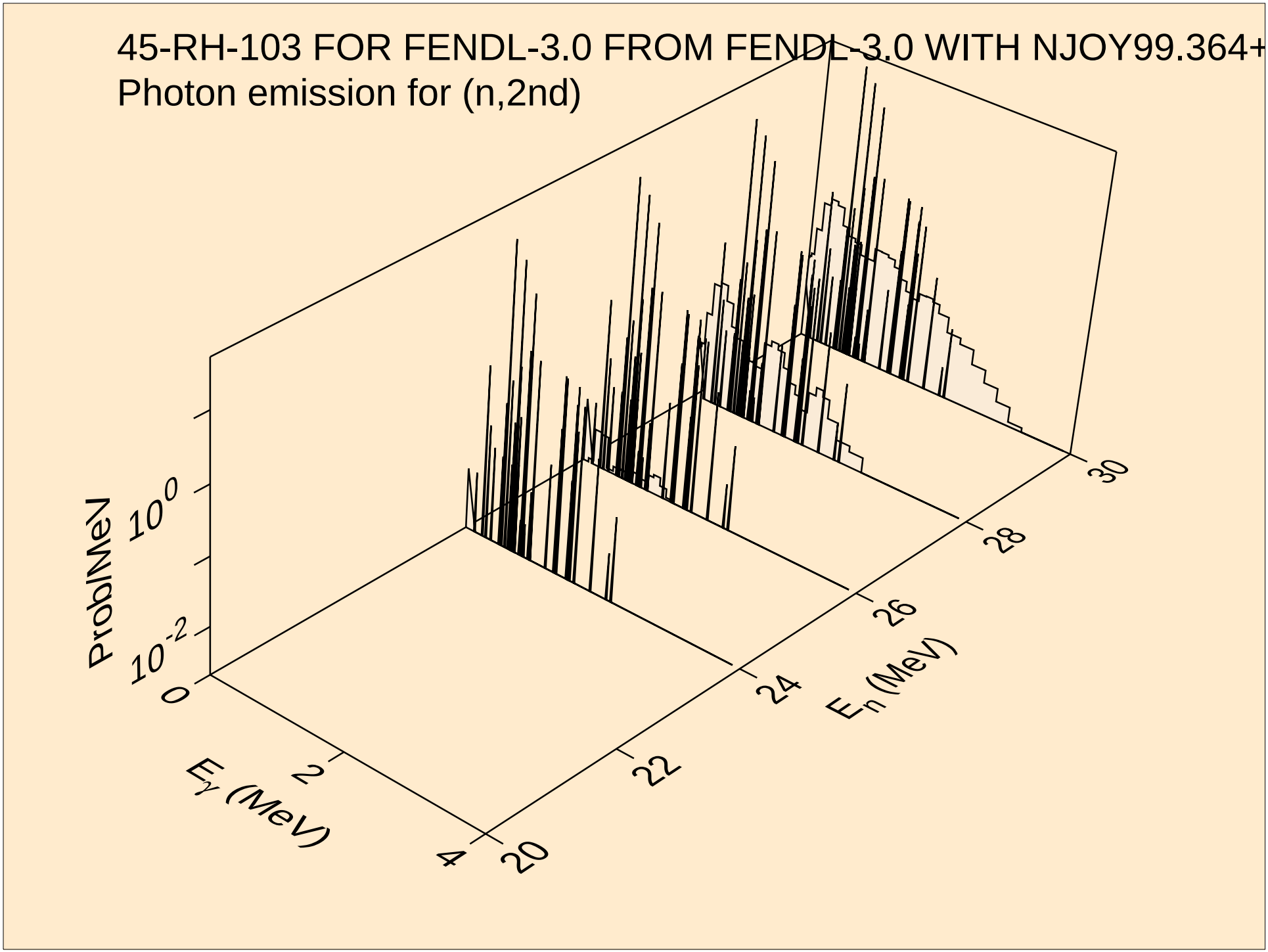

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,3np)
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
22
23
24
25
26
27
28
29
30
Energy (MeV)

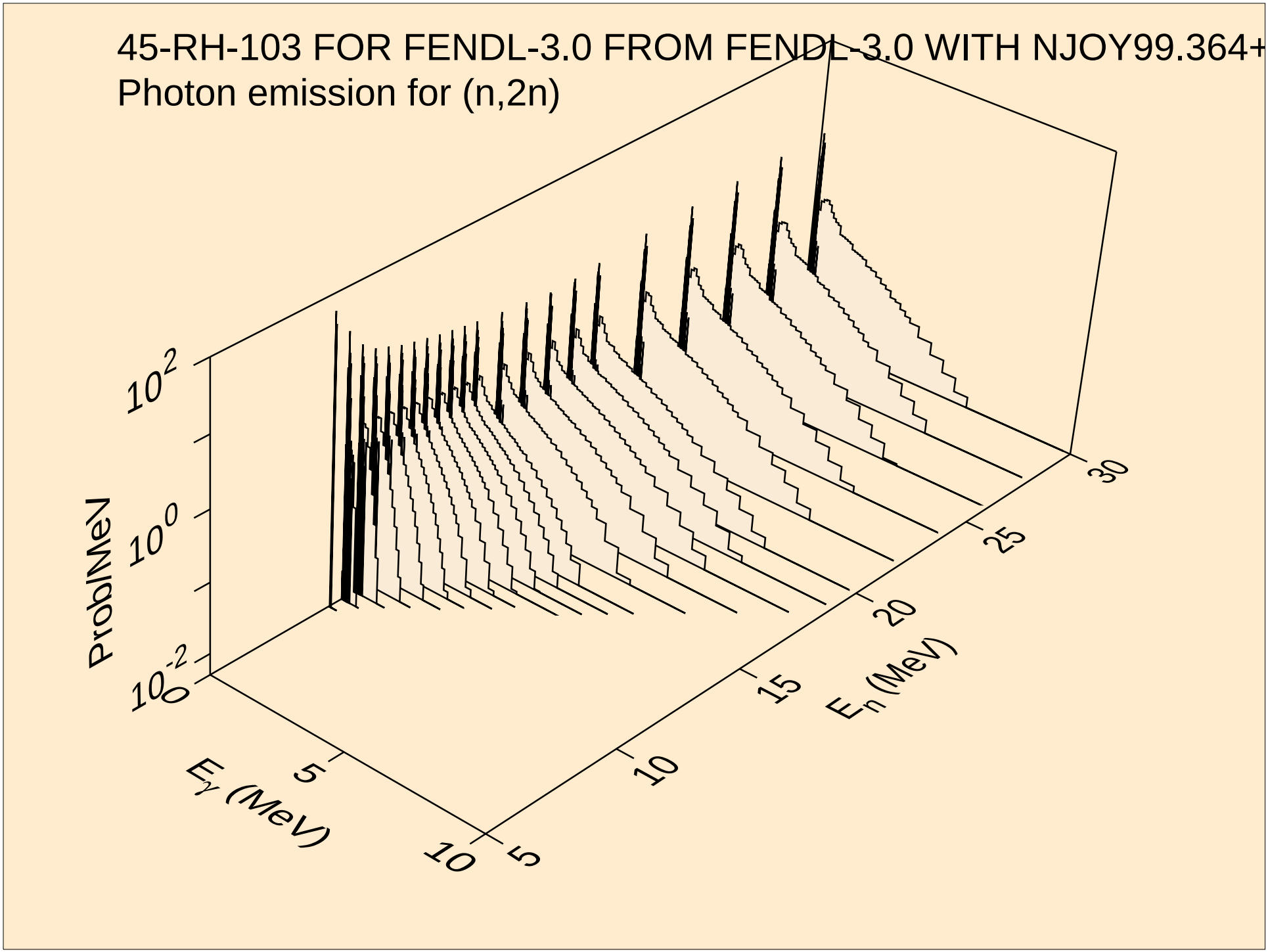

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,n2p)
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
16
18
20
22
24
26
28
30
Energy (MeV)

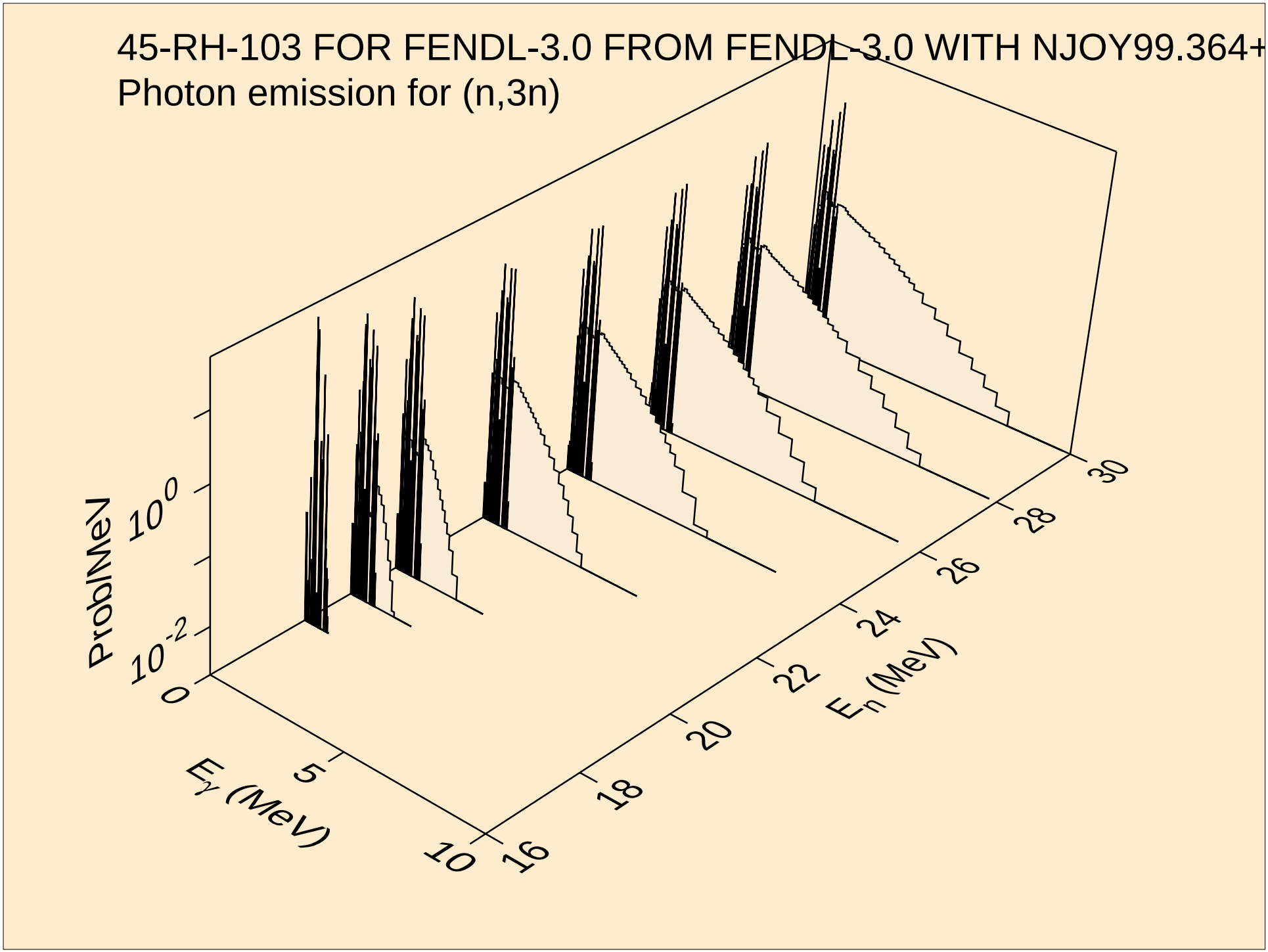

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,npa)
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

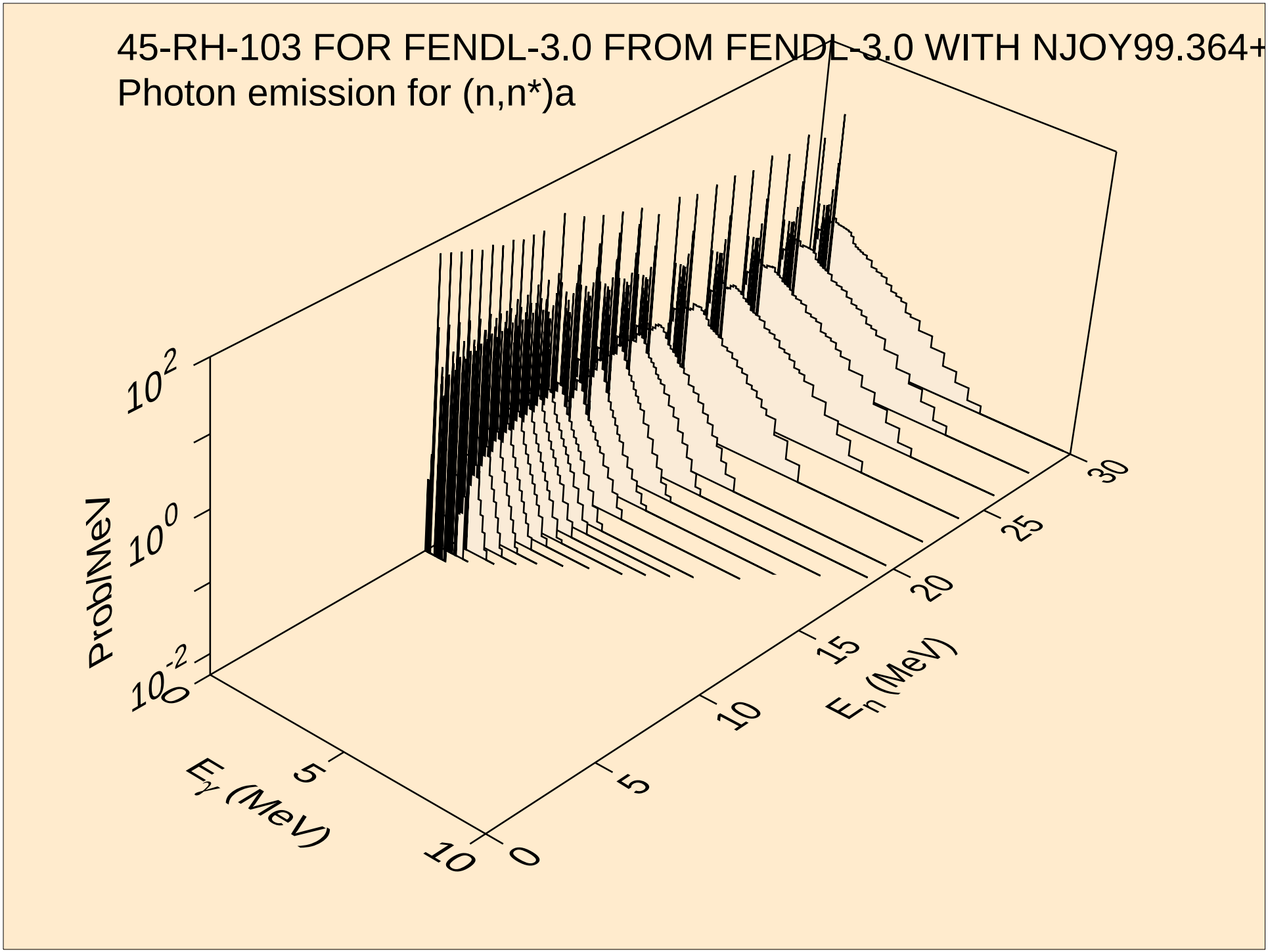

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Neutron emission for (n,n*c)
Prob/MeV
10^{0}
10^{-2}
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

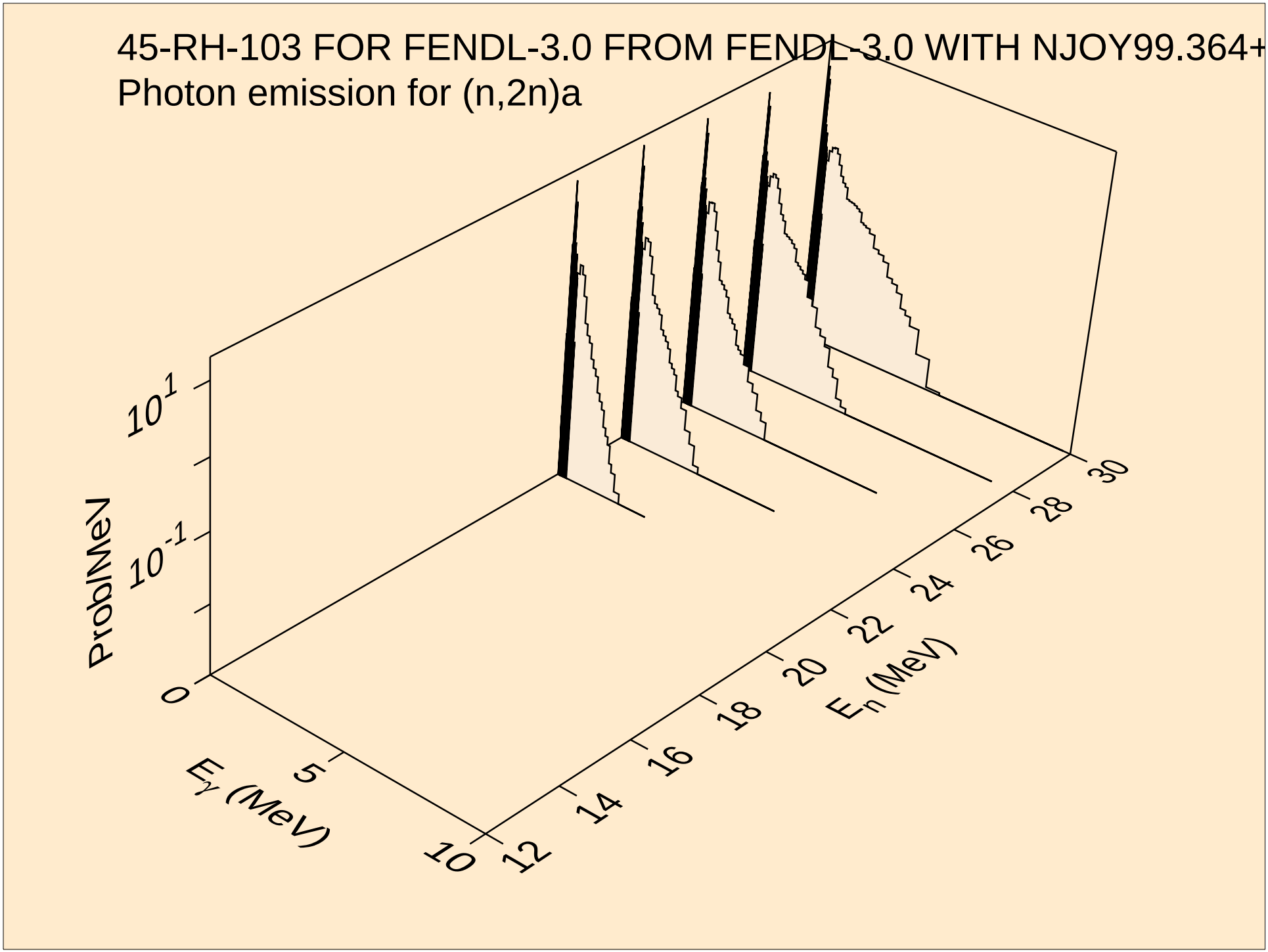

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
20
40
E_γ (MeV)
0
50
100
150
200
E_n (MeV)

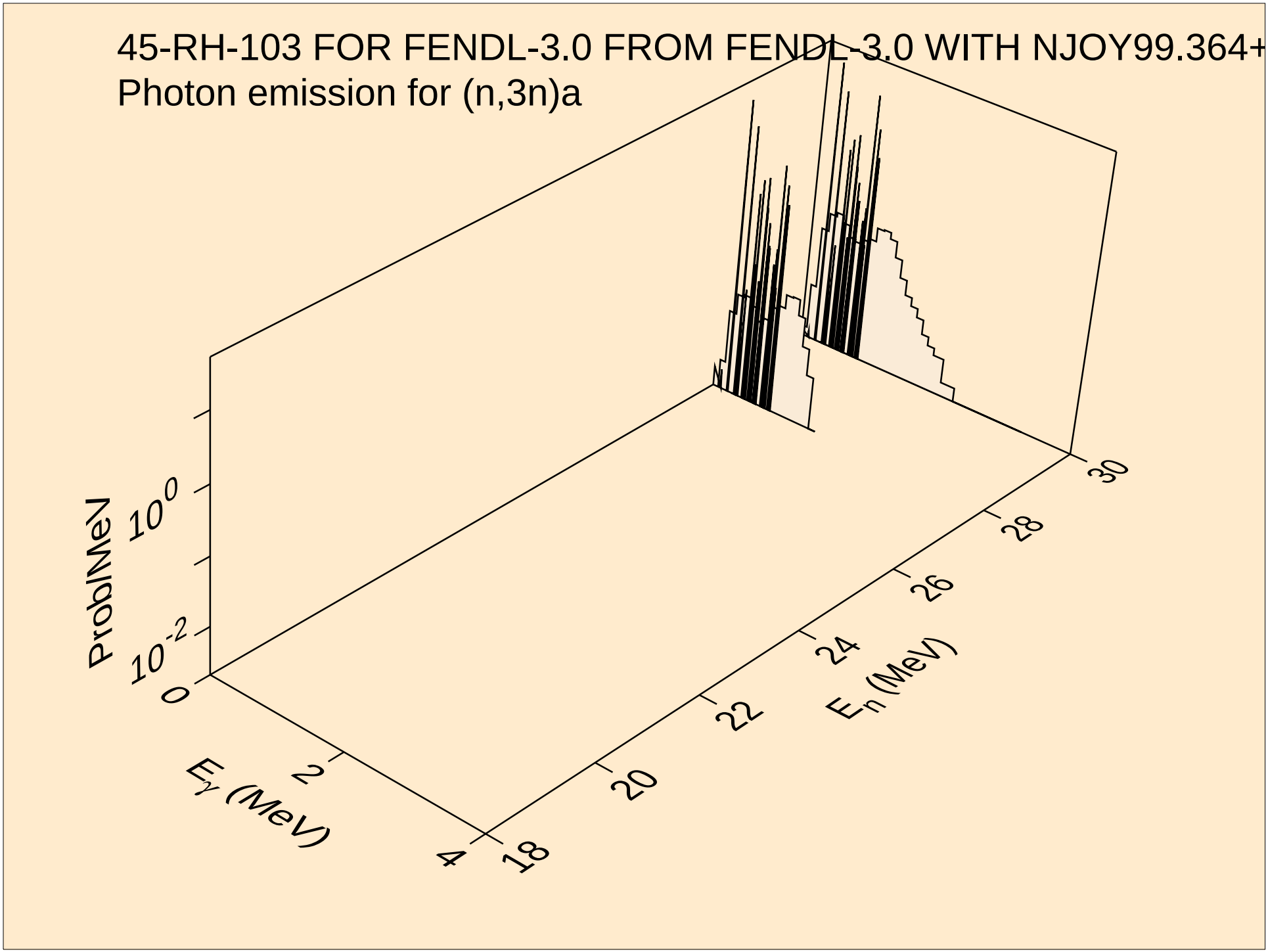

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,2nd)
Prob/MeV
10^0
10^-2
0
2
4
E_γ (MeV)
20
22
24
26
28
30
E_n (MeV)

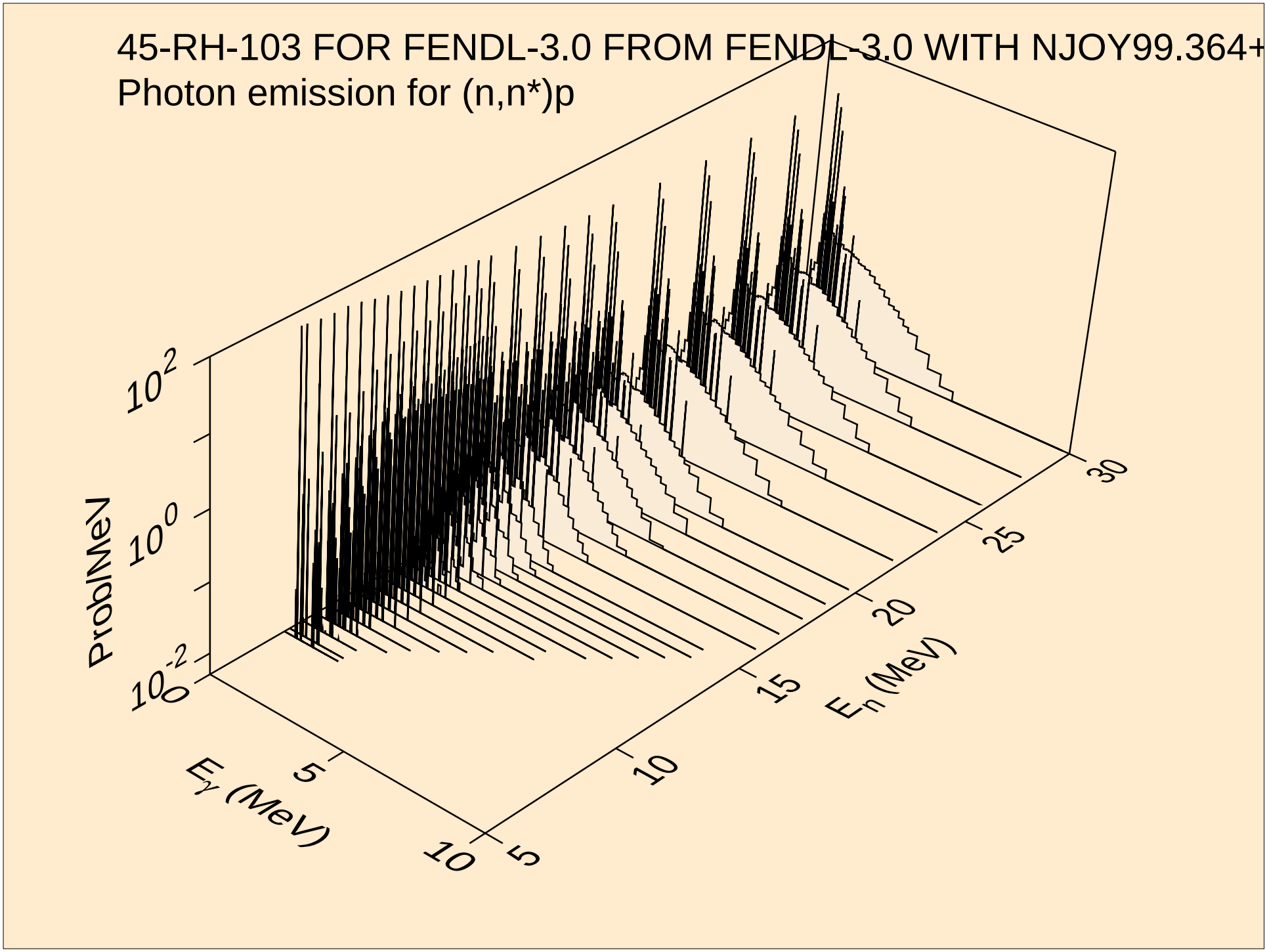

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,2n)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

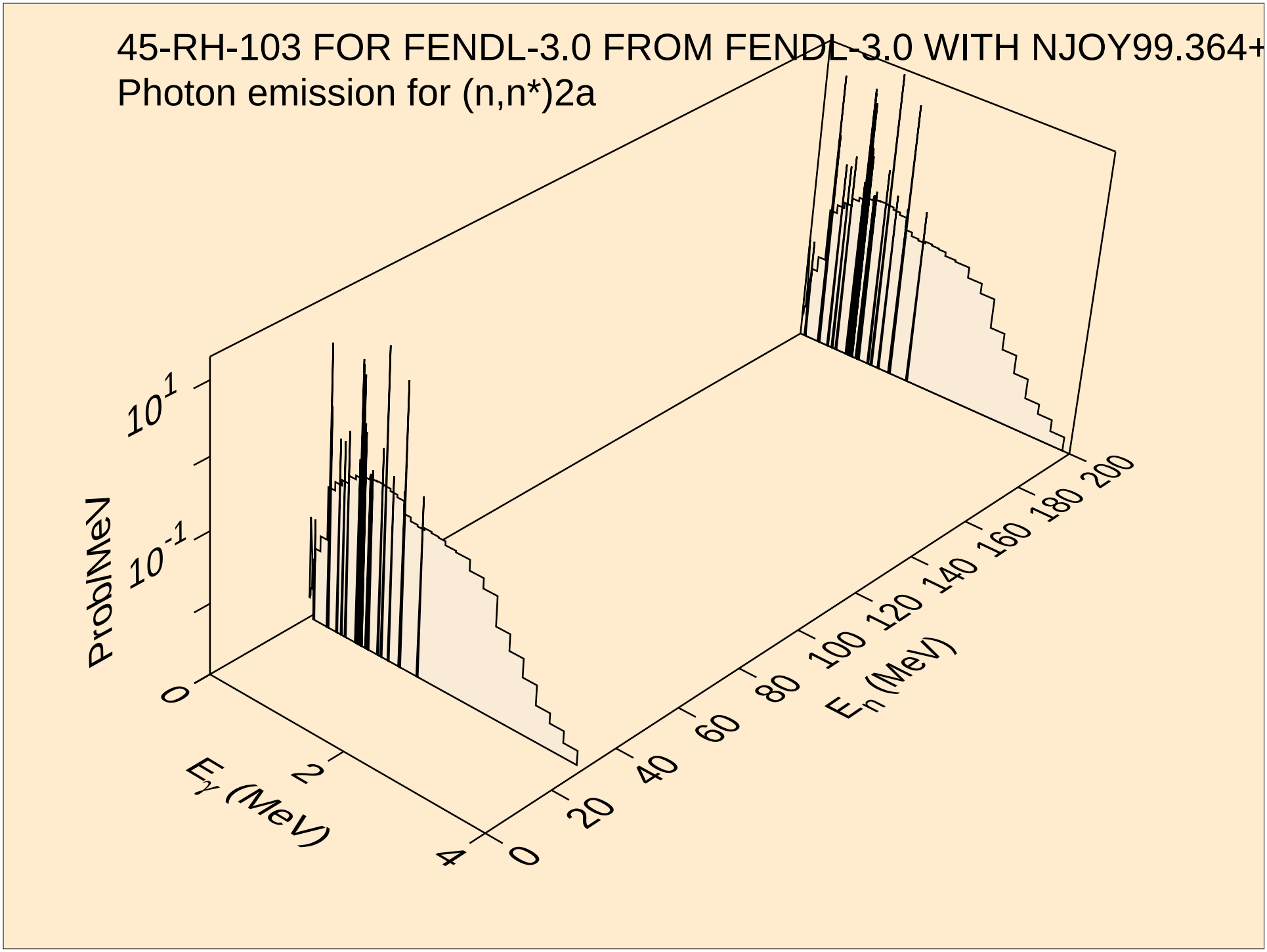

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,3n)
Prob/MeV
10^0
10^-2
0
5
10
Eγ (MeV)
16
18
20
22
24
26
28
30
En (MeV)

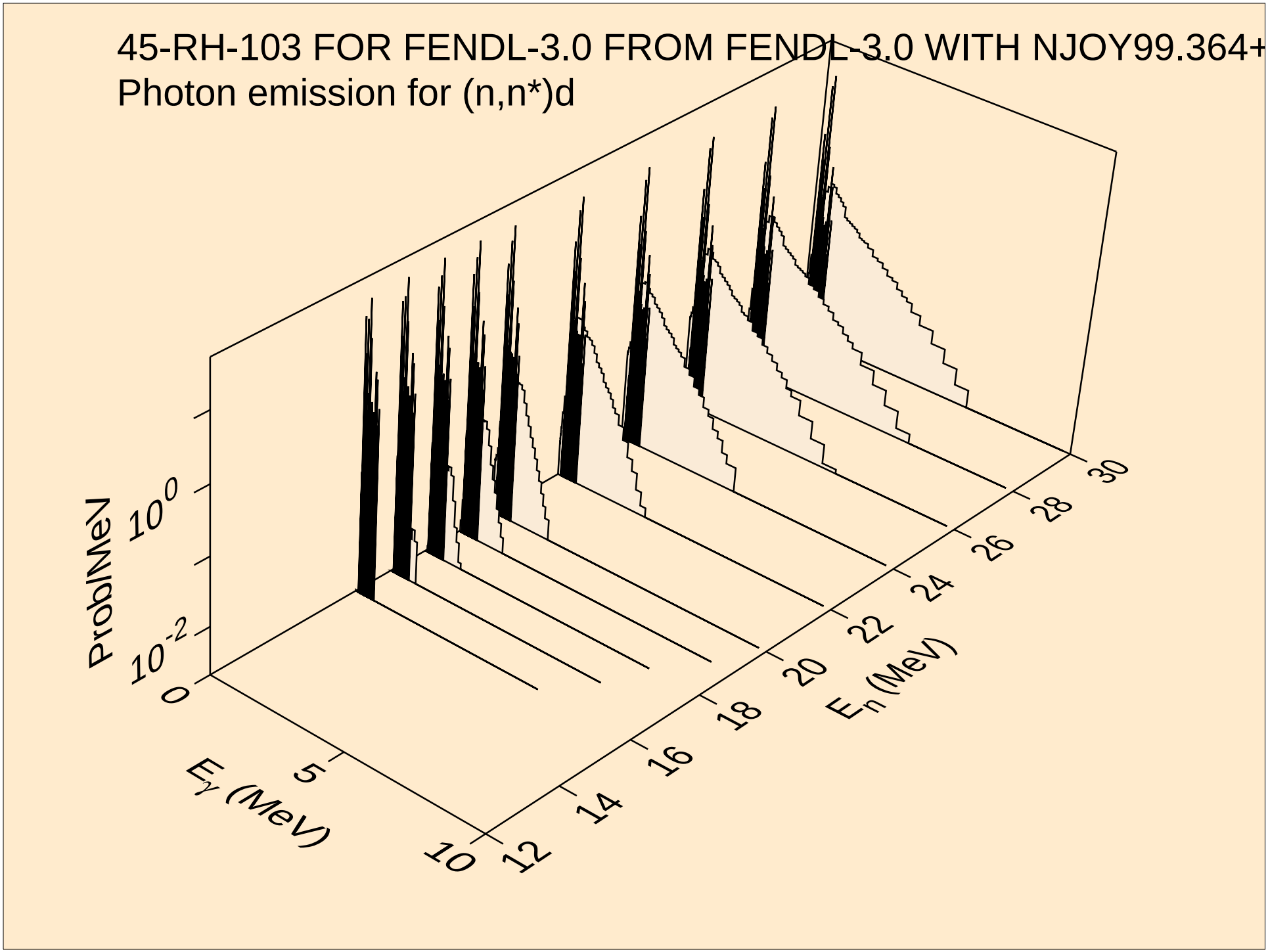

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*)a
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
E_n (MeV)
0
5
10
15
20
25
30

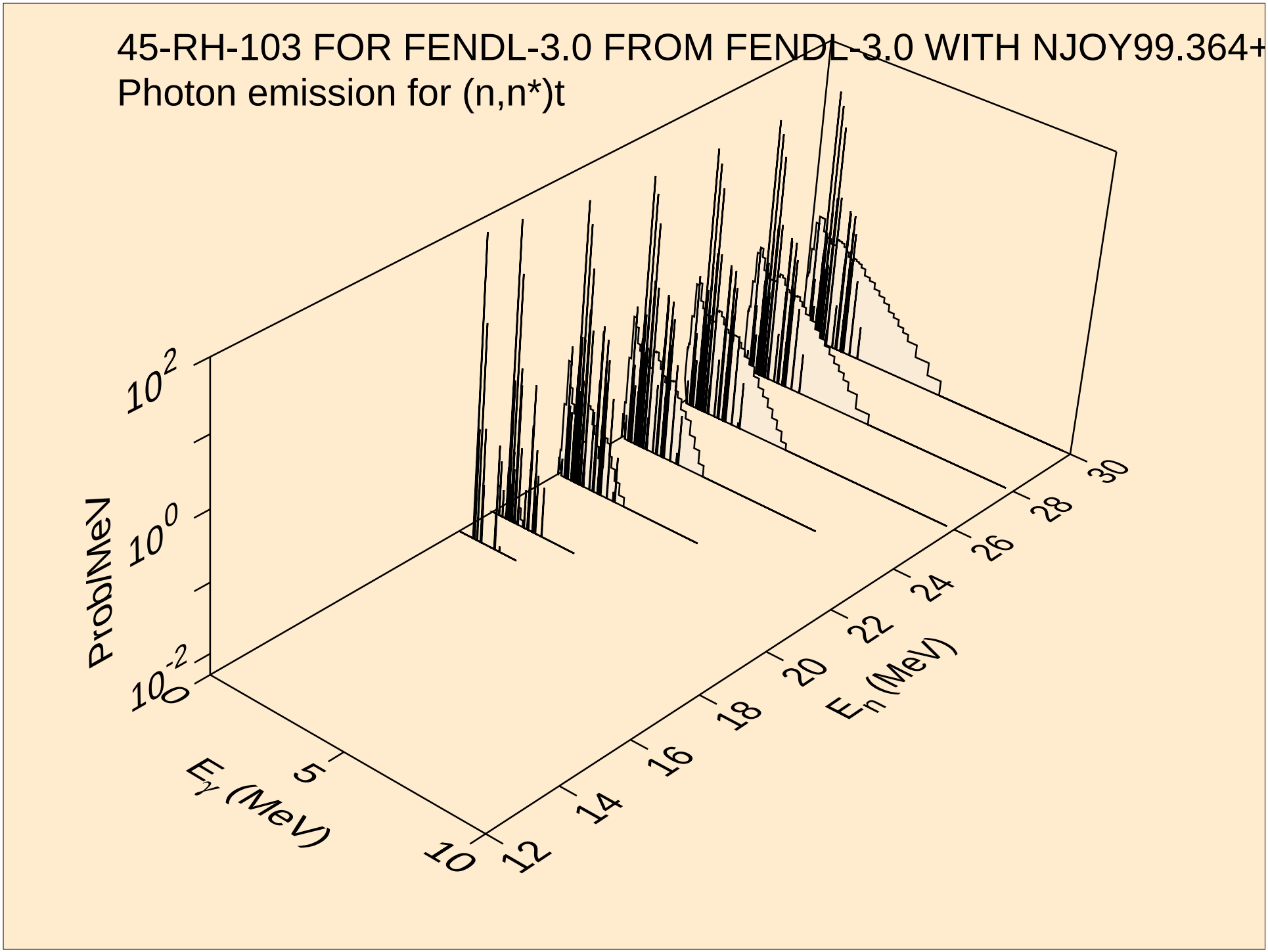

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,2n)a
Prob/MeV
10^1
10^-1
0
5
10
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

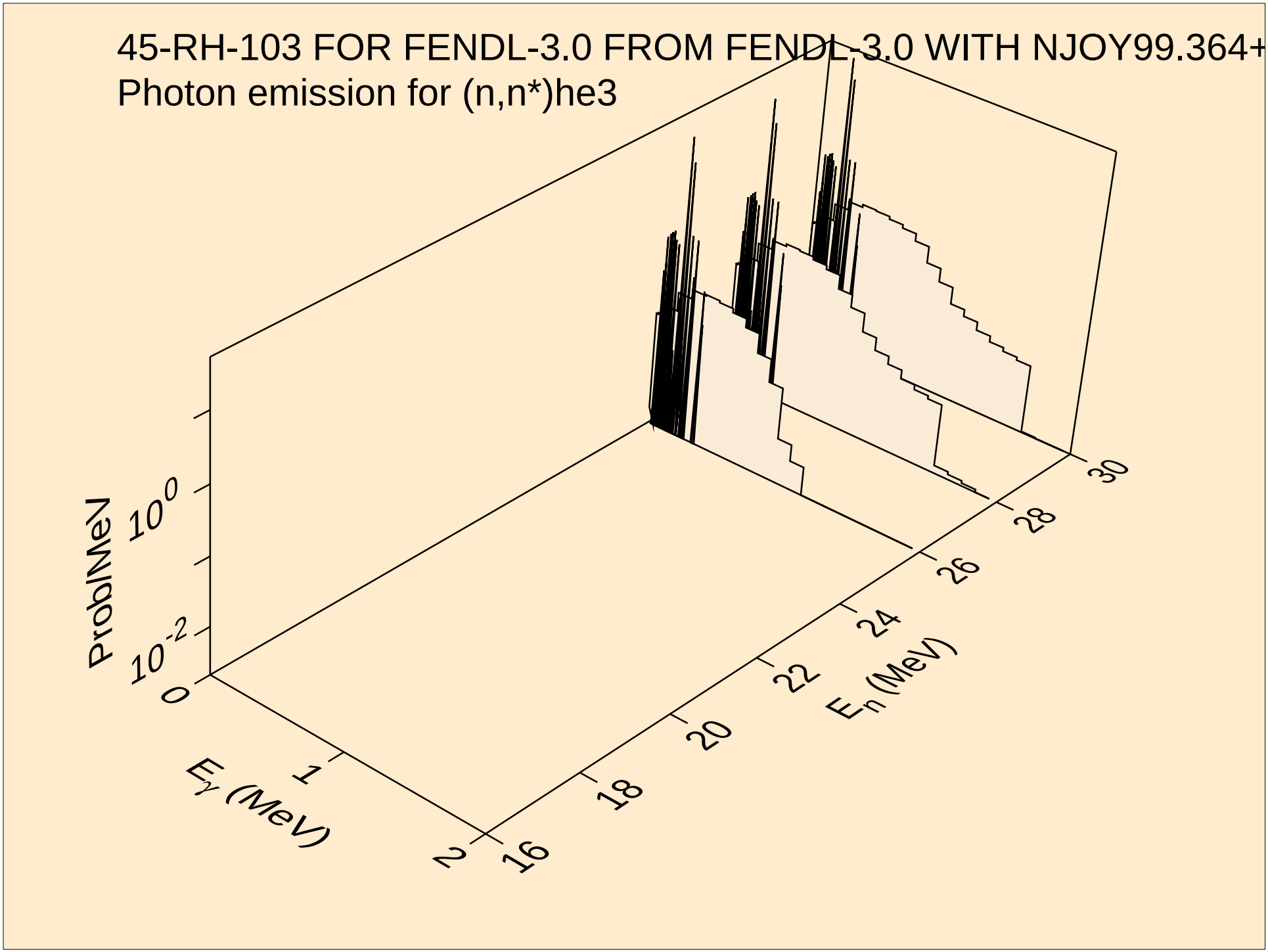

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,3n)a
Prob/MeV
10^0
10^-2
0
E_γ (MeV)
2
4
E_n (MeV)
18
20
22
24
26
28
30

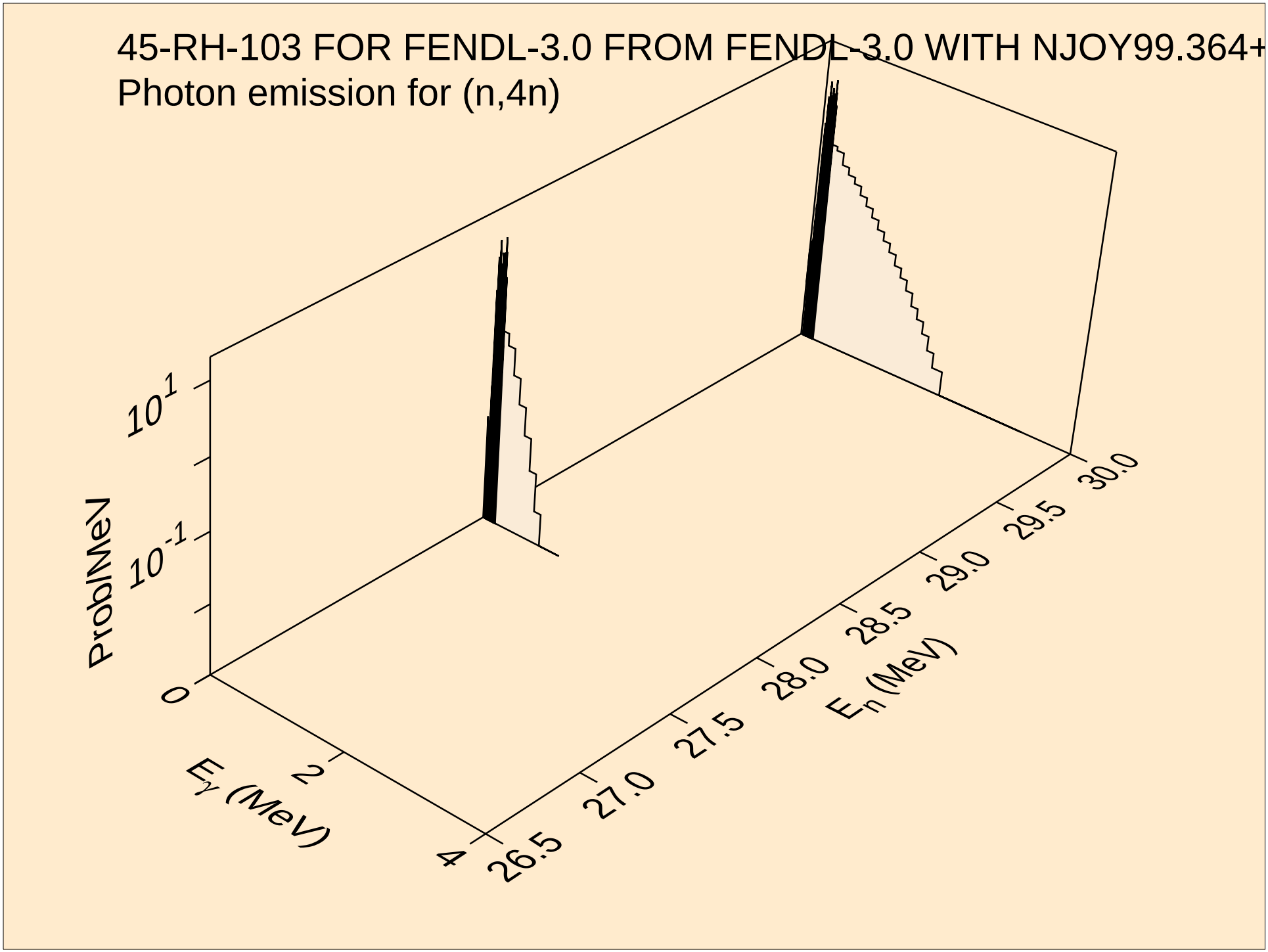

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*)p
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

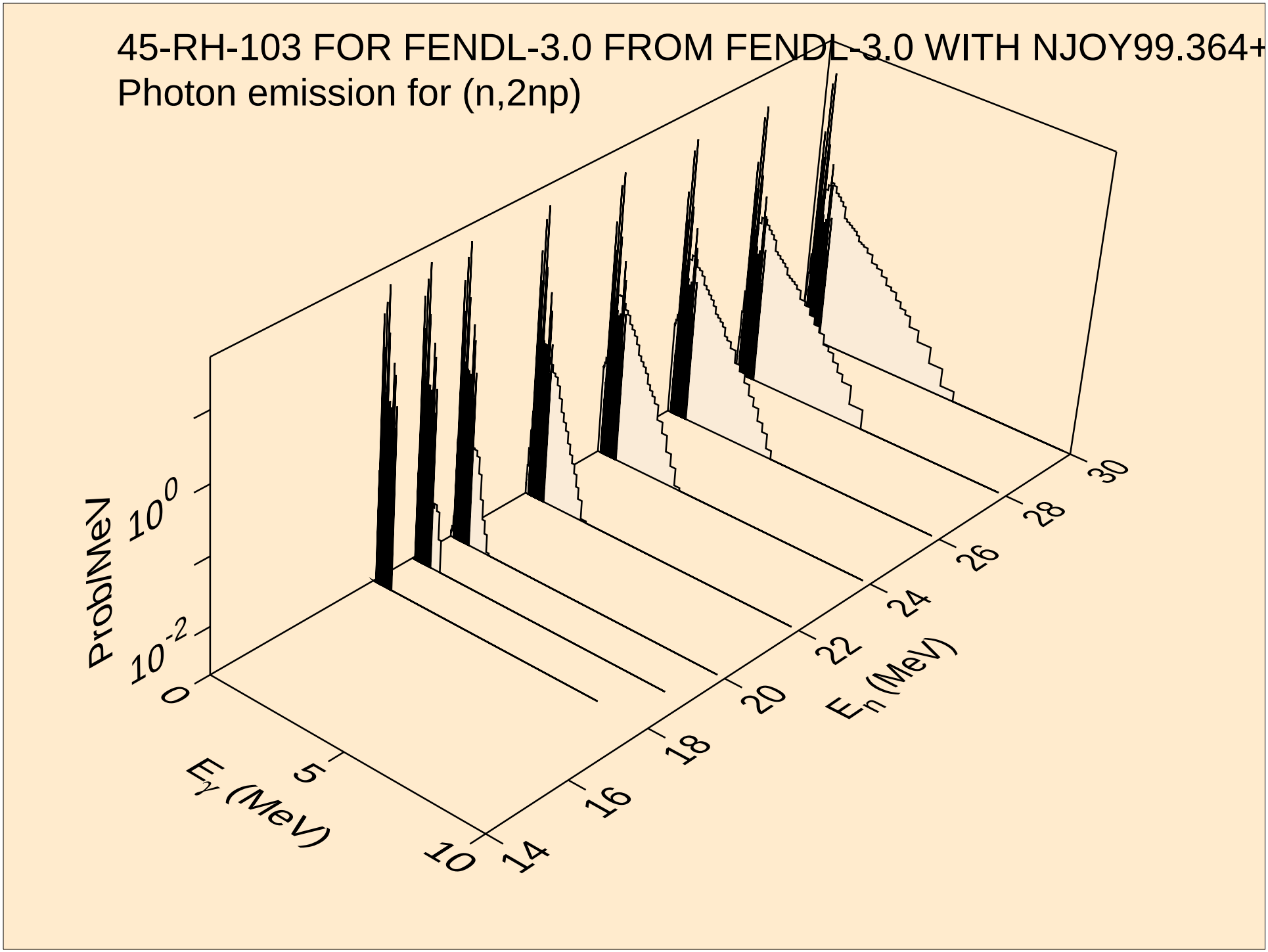

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*)2a
Prob/MeV
10^1
10^-1
0
2
4
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

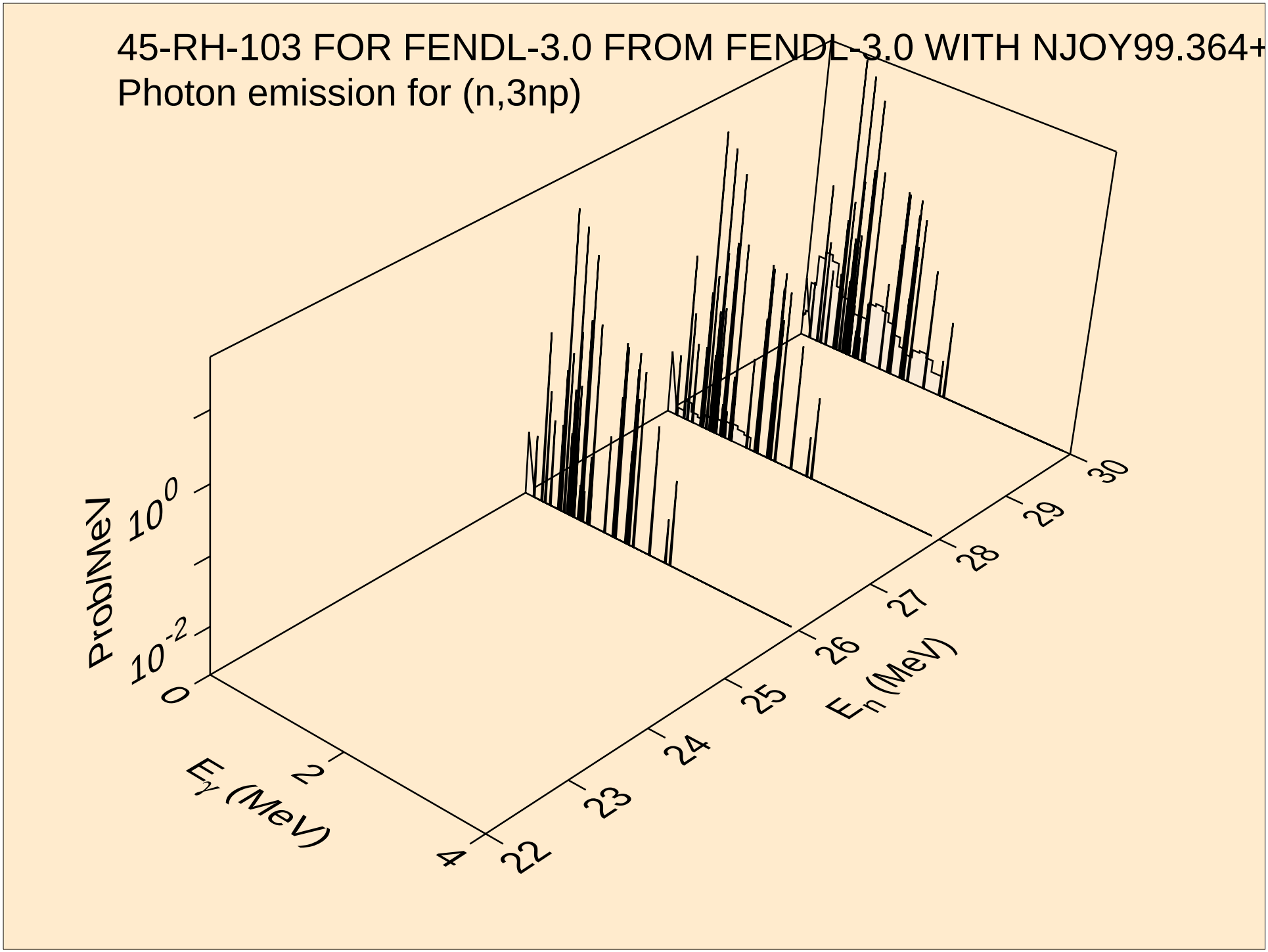

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*)d
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

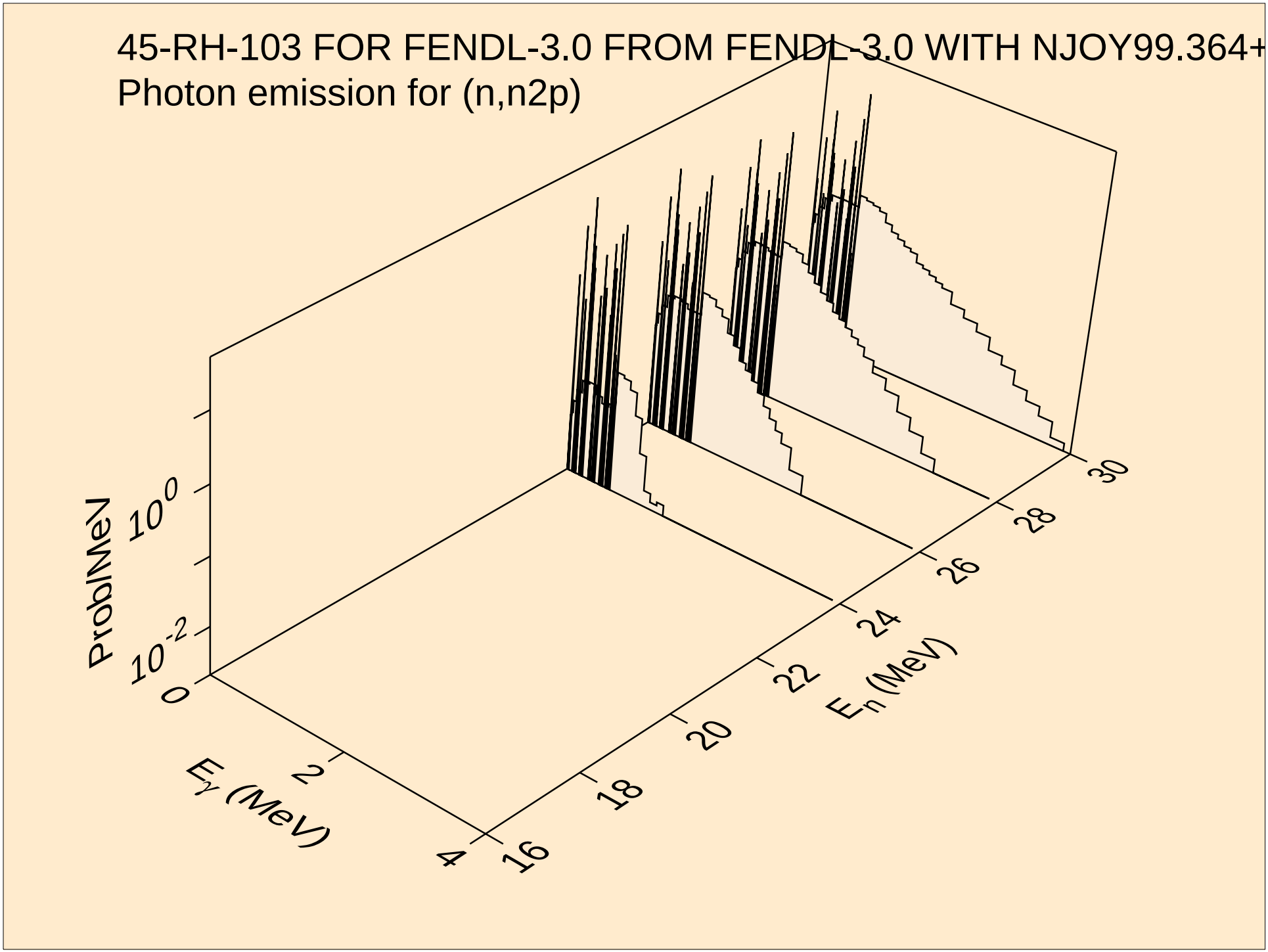

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*)t
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

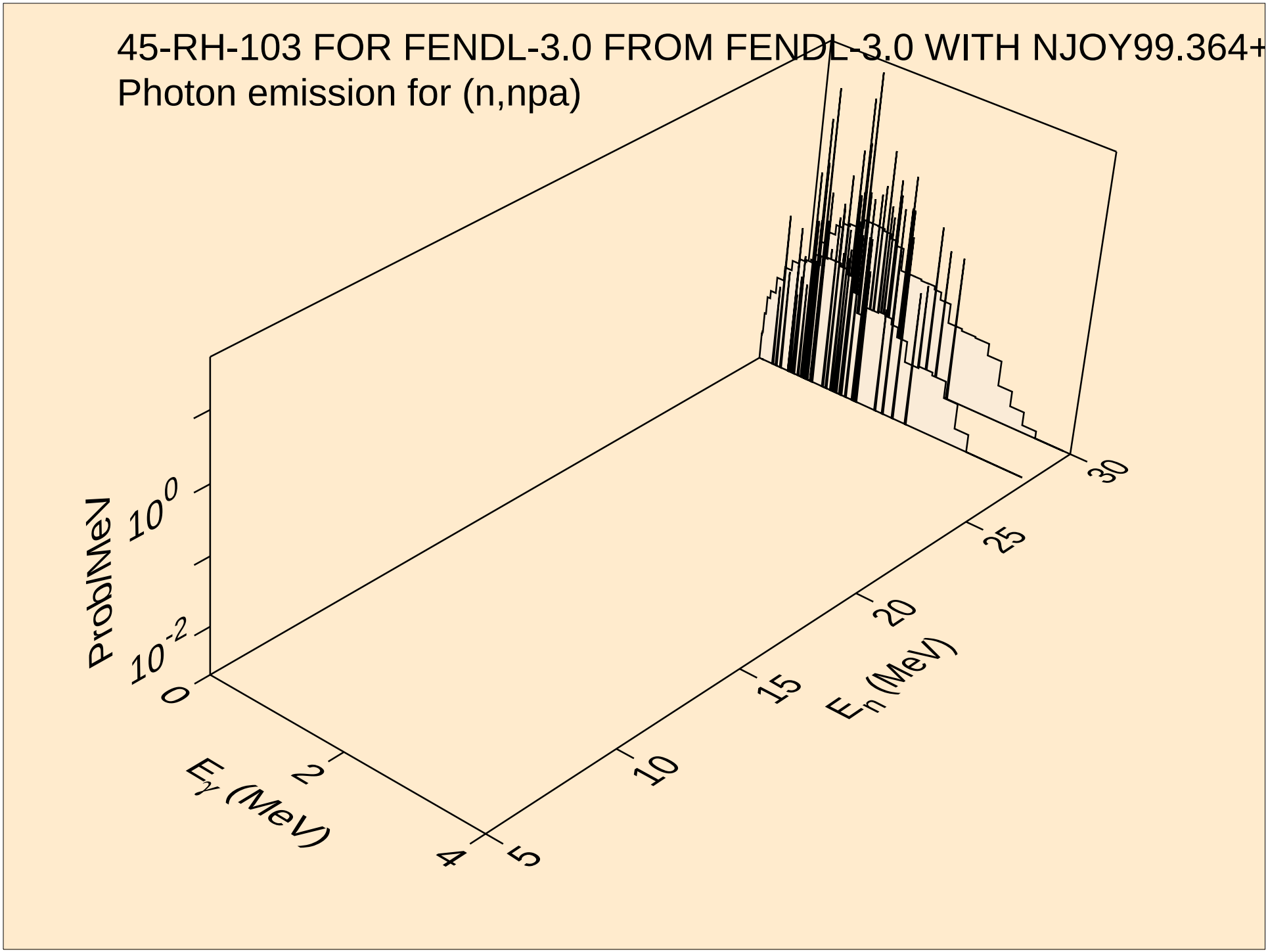

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*)he3
Prob/MeV
10^0
10^-2
0
E_γ (MeV)
1
2
16
18
20
22
24
26
28
30
E_n (MeV)

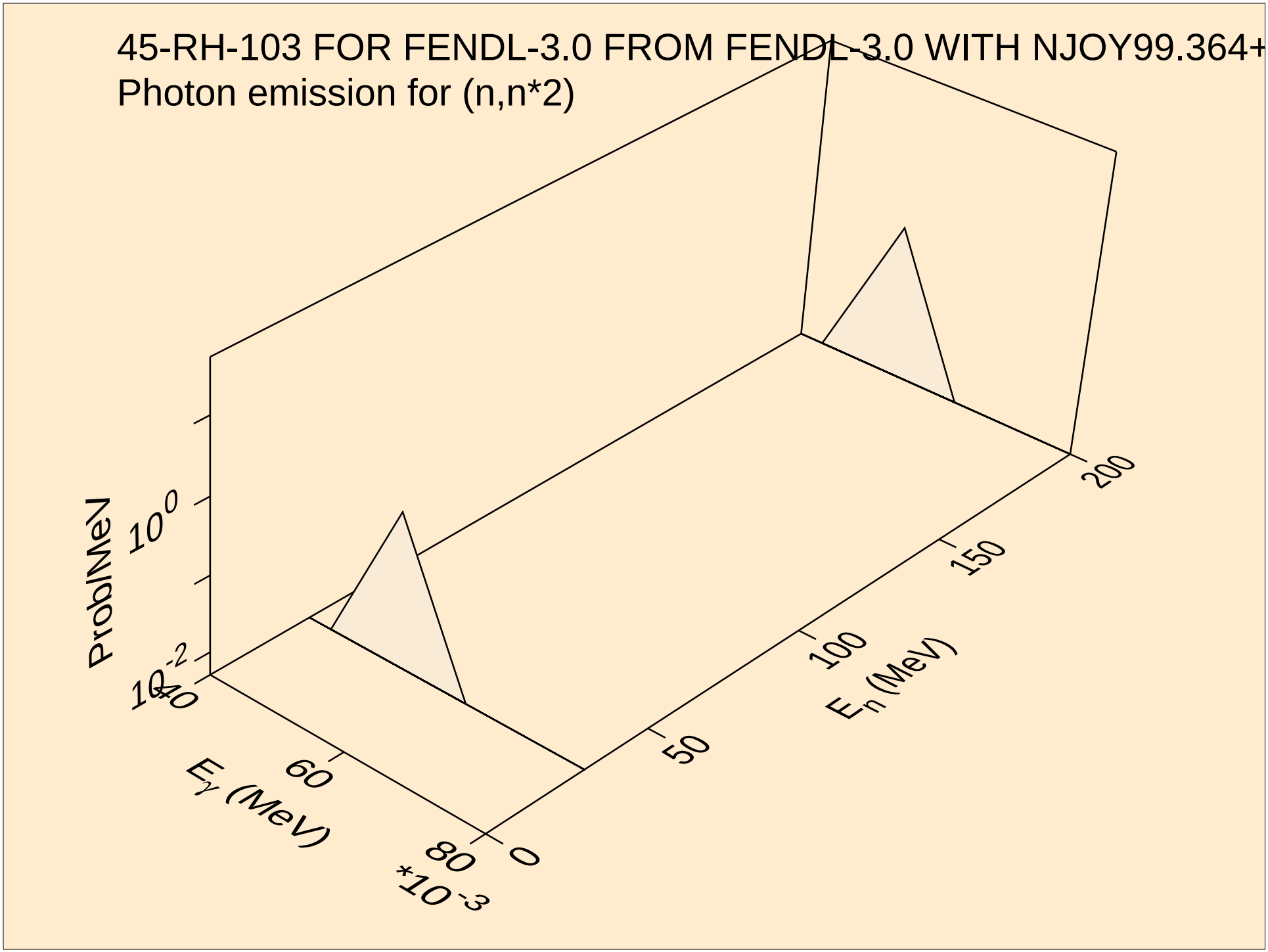

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,4n)
Prob/MeV
10^1
10^-1
0
2
4
E_γ (MeV)
26.5
27.0
27.5
28.0
28.5
29.0
29.5
30.0
E_n (MeV)

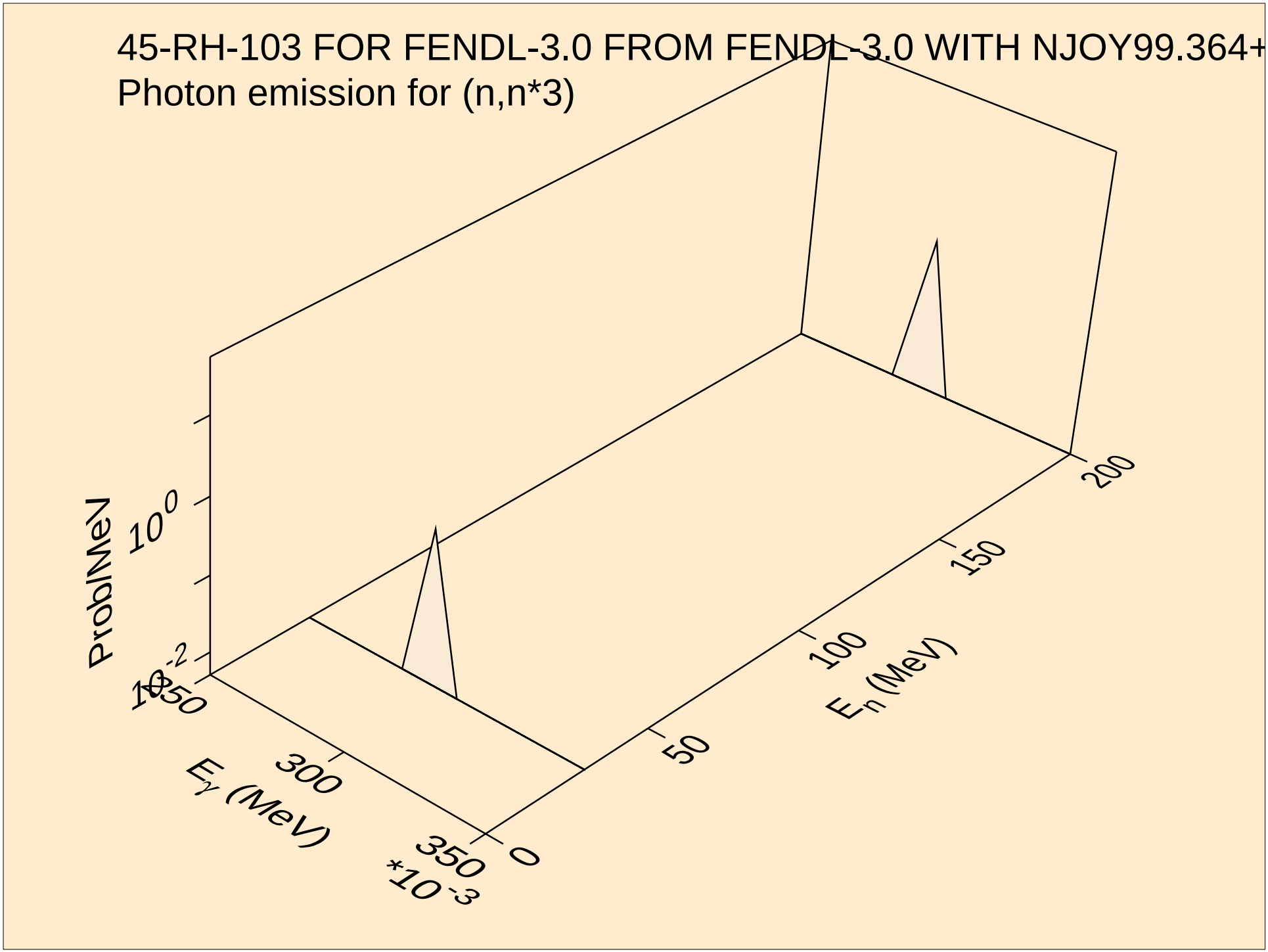

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,2np)
Prob/MeV
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
14
16
18
20
22
24
26
28
30
E_n (MeV)

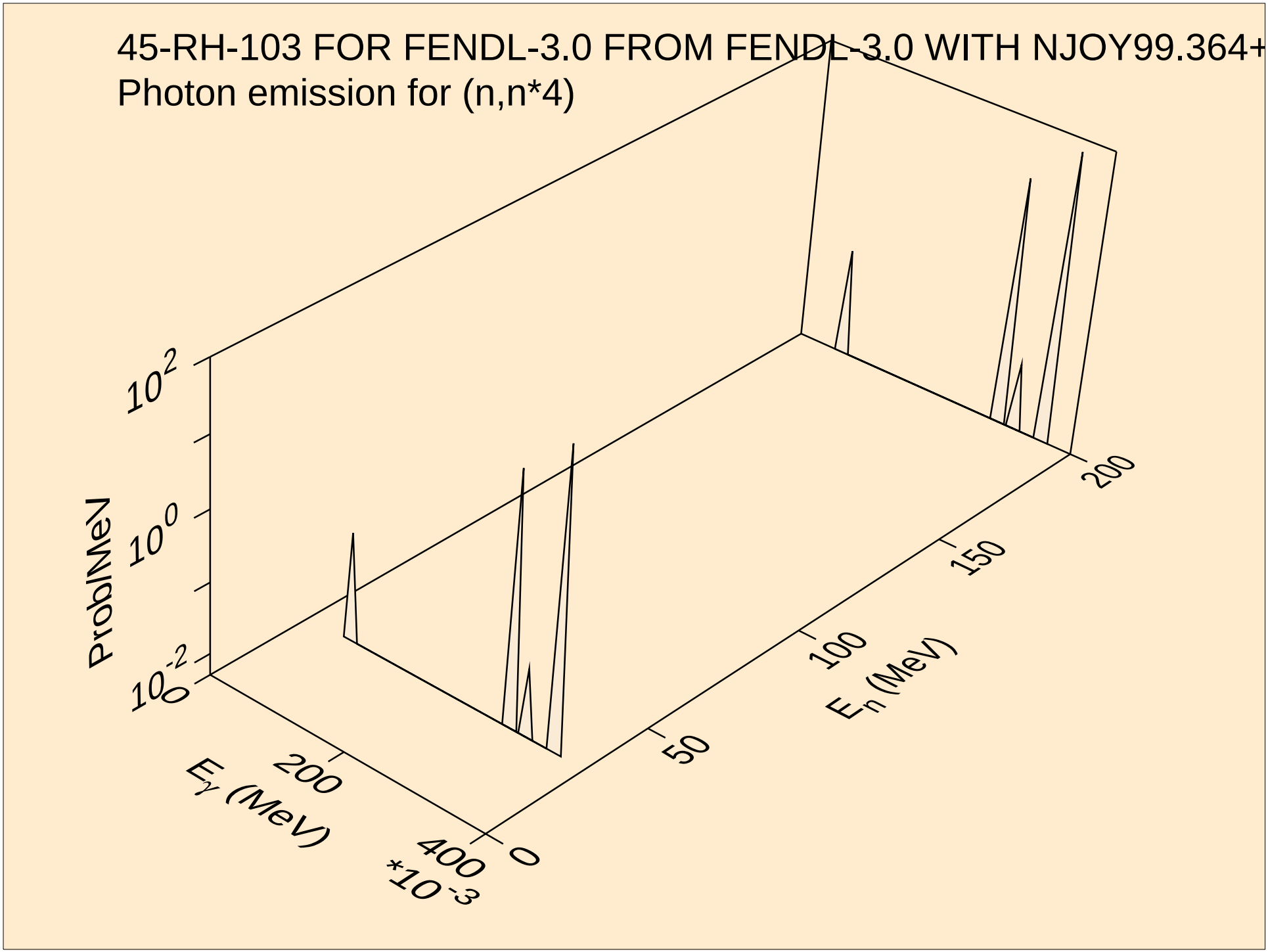

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,3np)
Prob/MeV
10^0
10^-2
0
2
4
E_γ (MeV)
22
23
24
25
26
27
28
29
30
E_n (MeV)

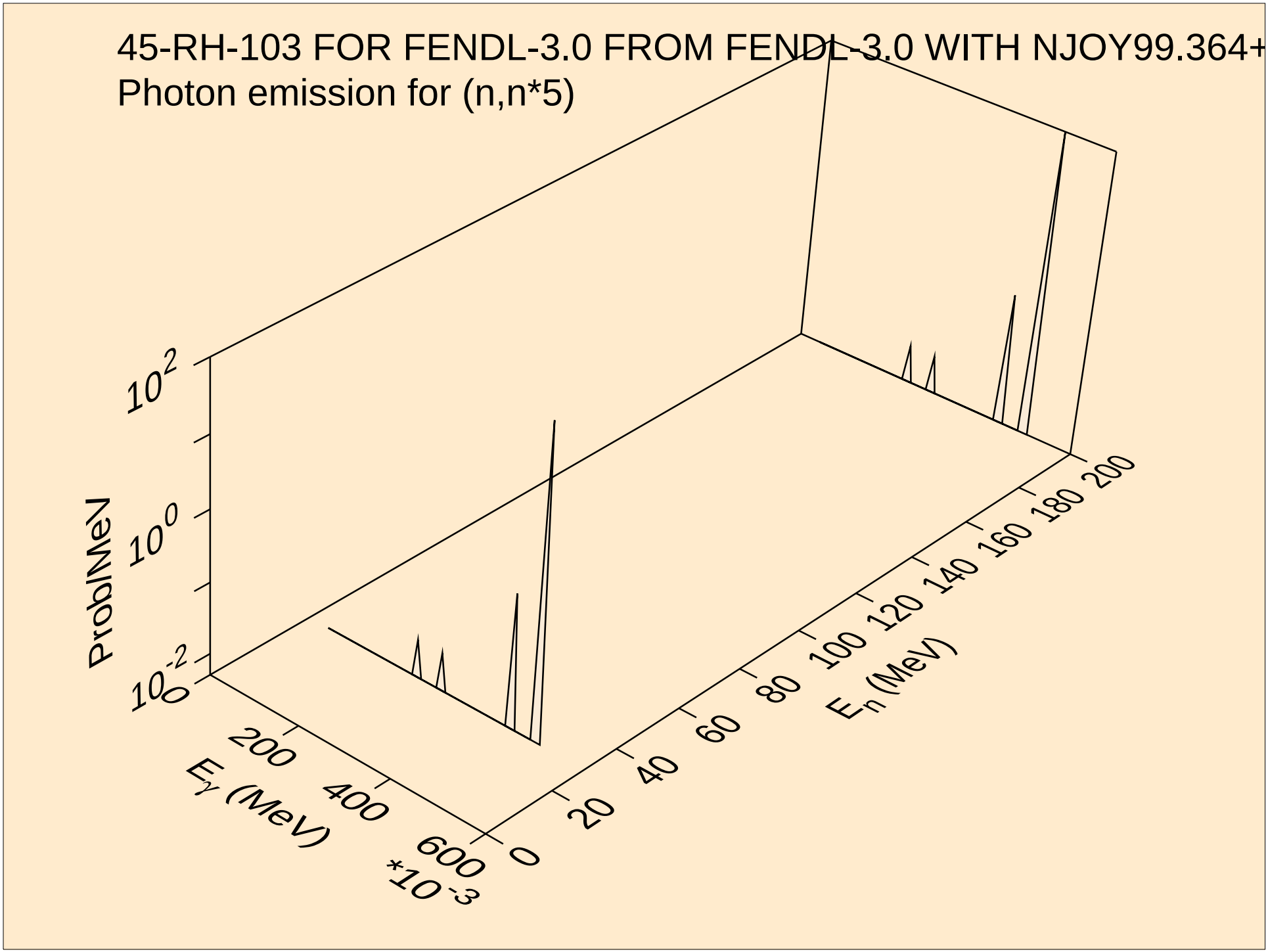

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n2p)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
2
4
16
18
20
22
24
26
28
30
E_n (MeV)

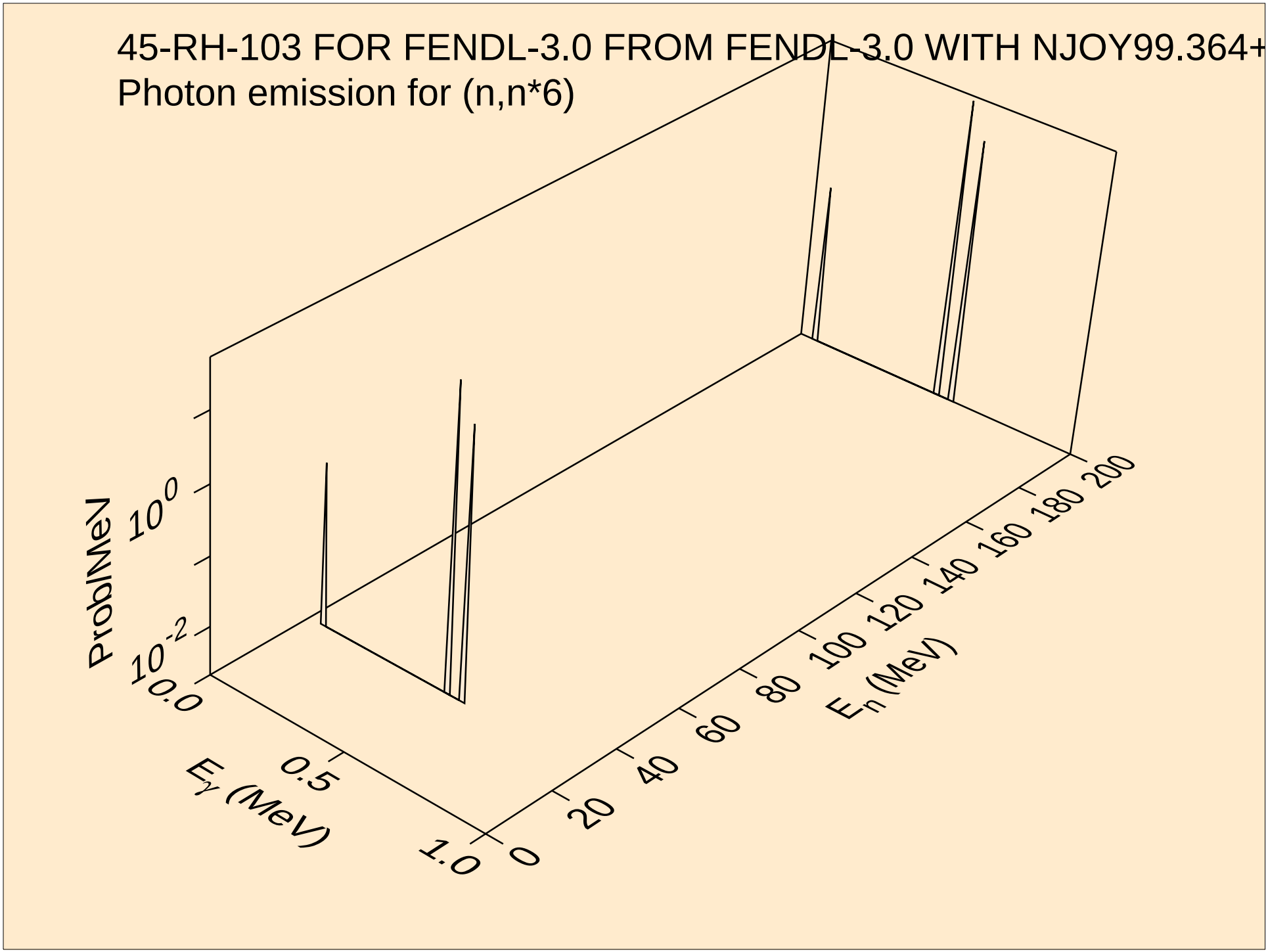

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,npa)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
2
4
5
10
15
20
25
30
E_n (MeV)

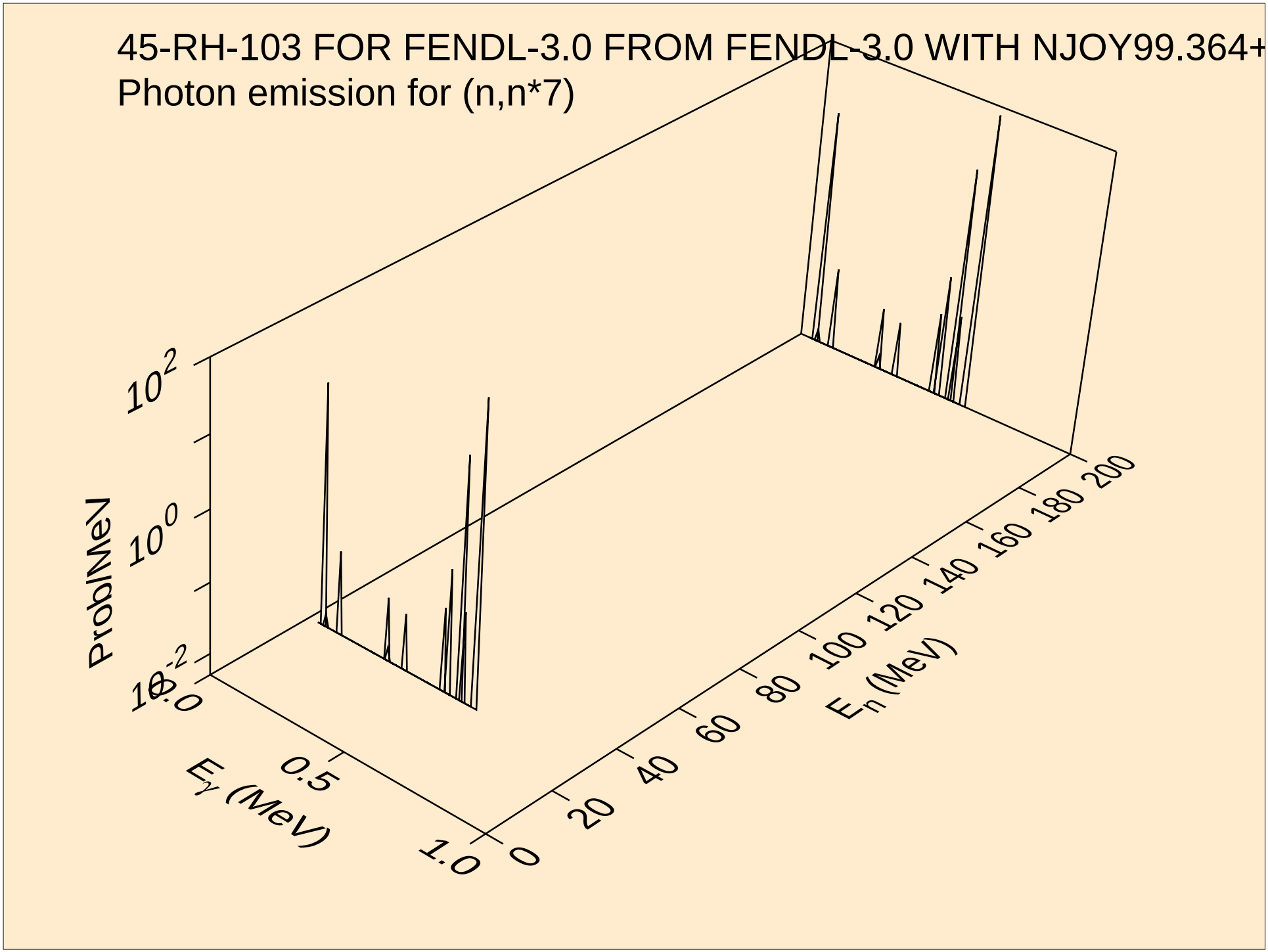

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*2)
Prob/MeV
10^0
10^-2
40
60
80
*10^-3
E_γ (MeV)
0
50
100
150
200
E_n (MeV)

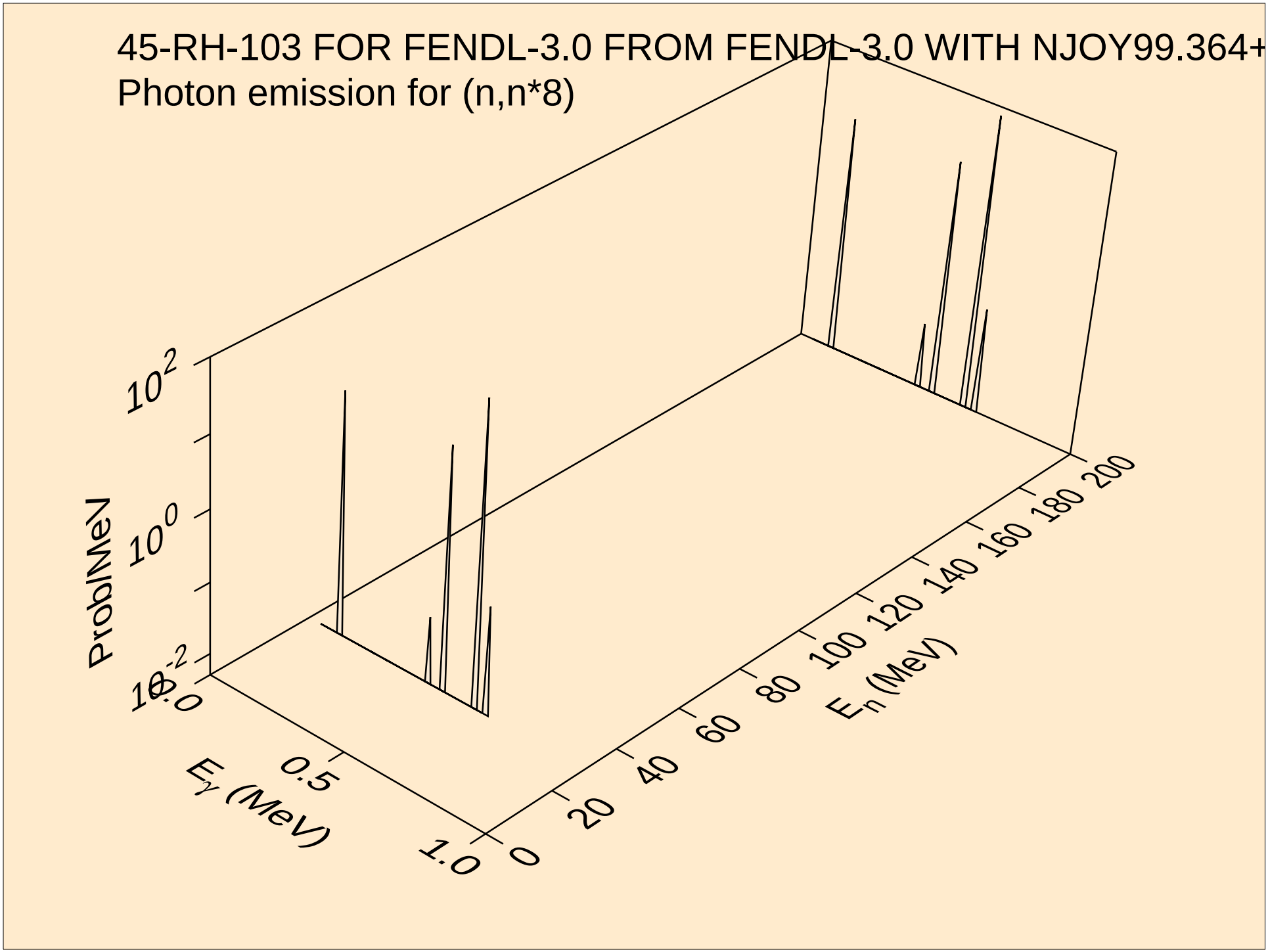

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*3)
Prob/MeV
10^0
10^-2
150
300
350
E_γ (MeV)
*10^-3
0
50
100
150
200
E_n (MeV)

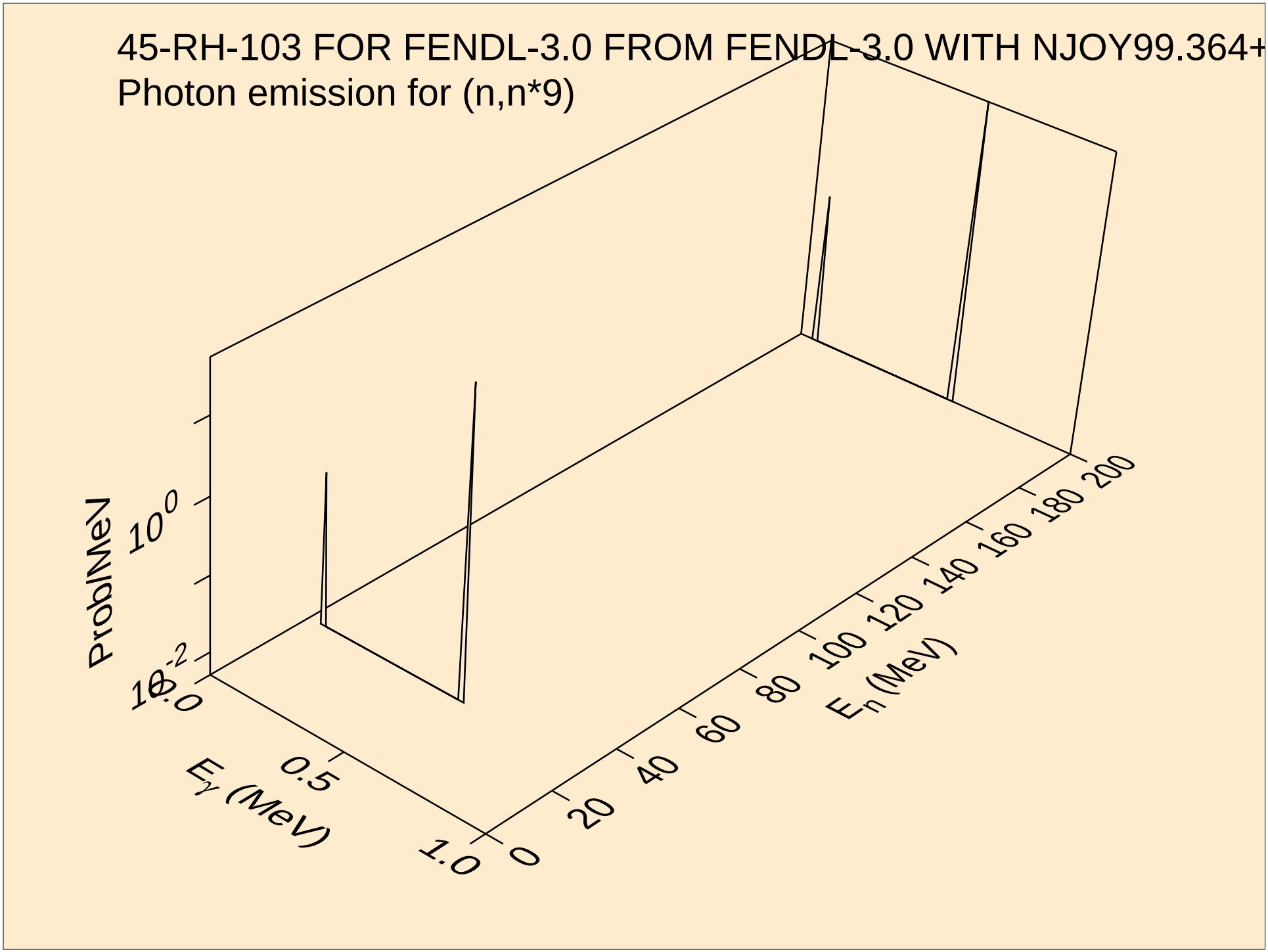

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*4)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
200
400
E_γ (MeV)
*10 -3
50
100
150
200
E_n (MeV)

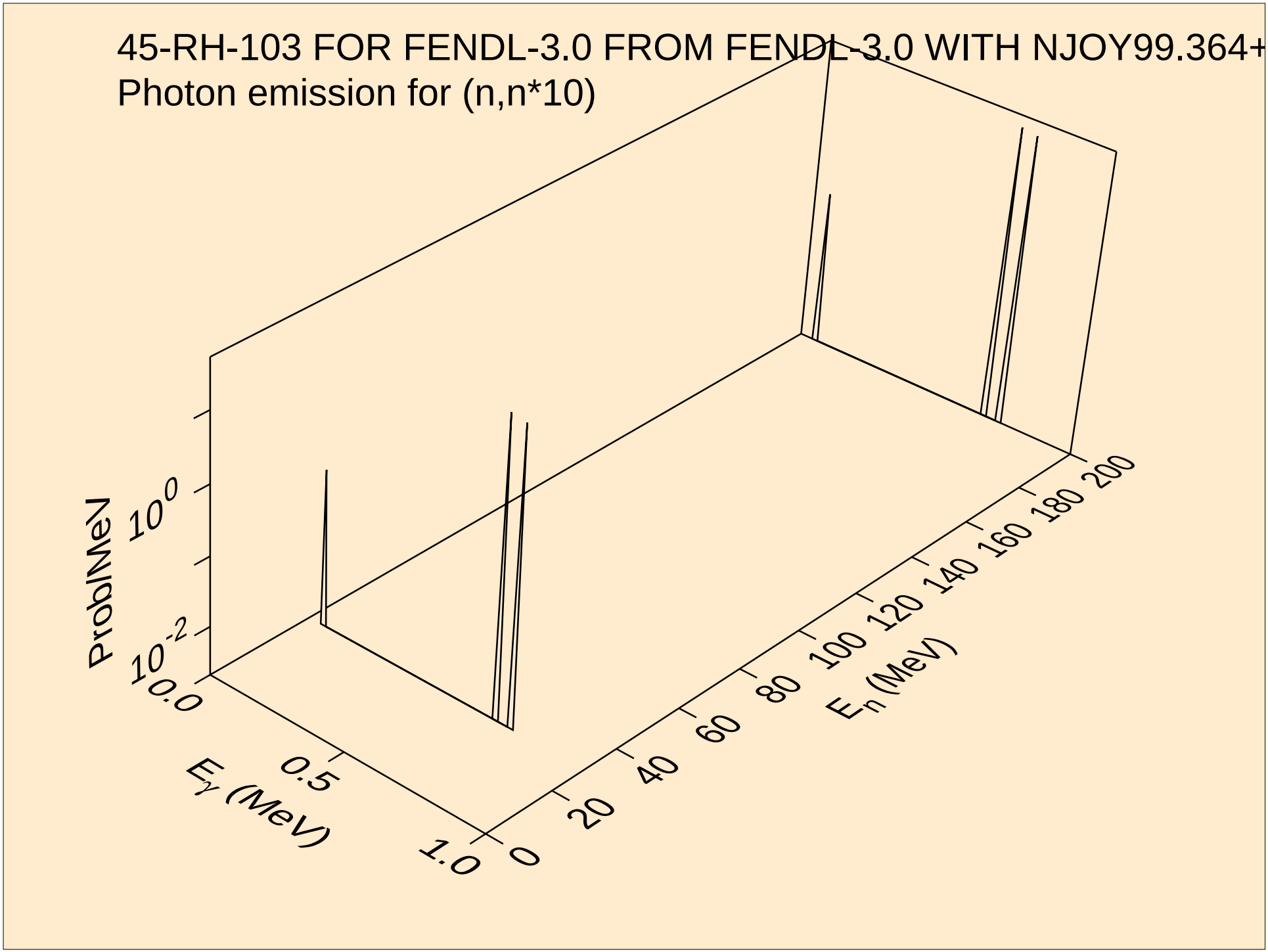

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*5)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
200
400
600
E_γ (MeV)
*10 -3
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

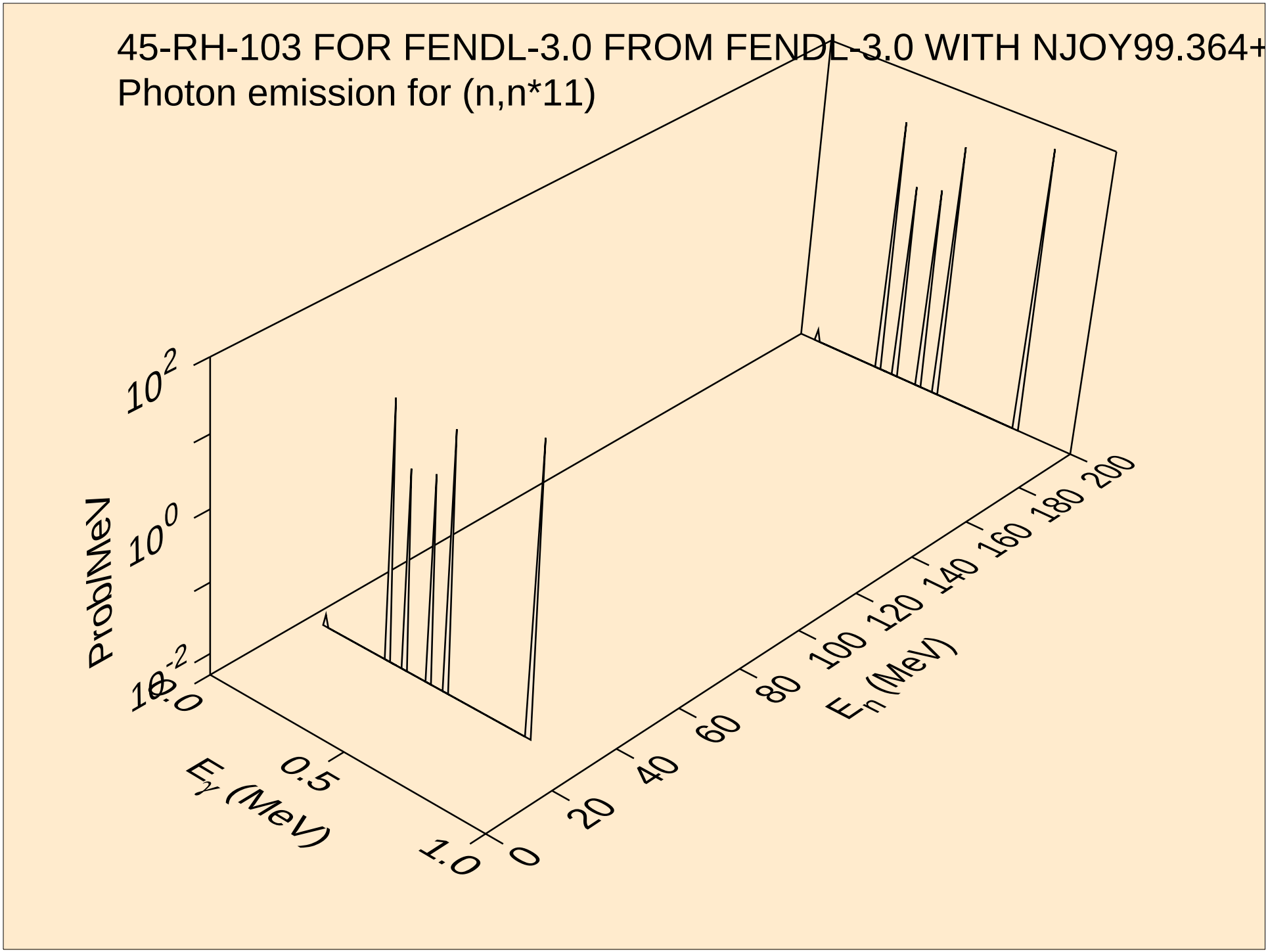

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*6)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

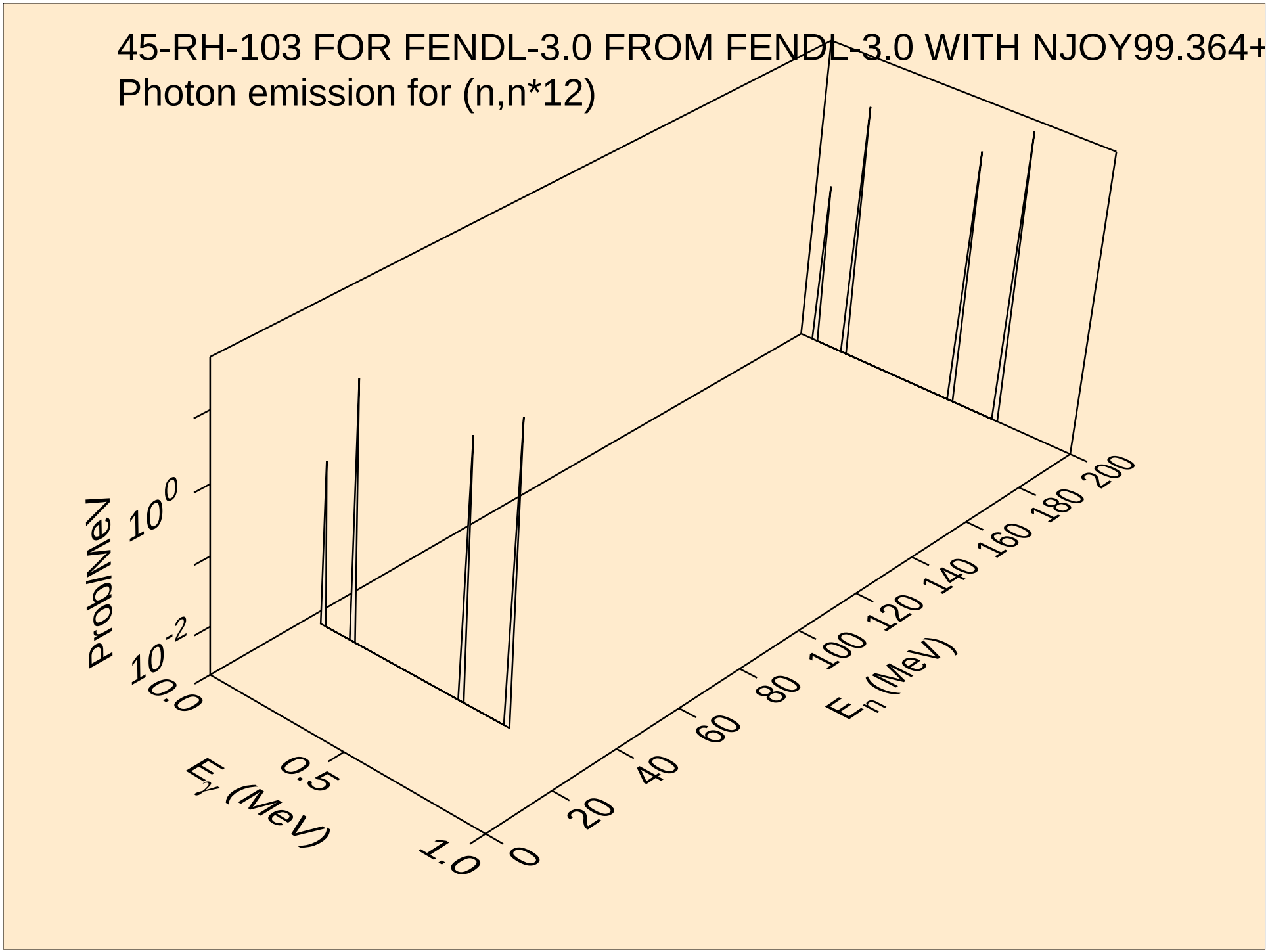

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*7)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

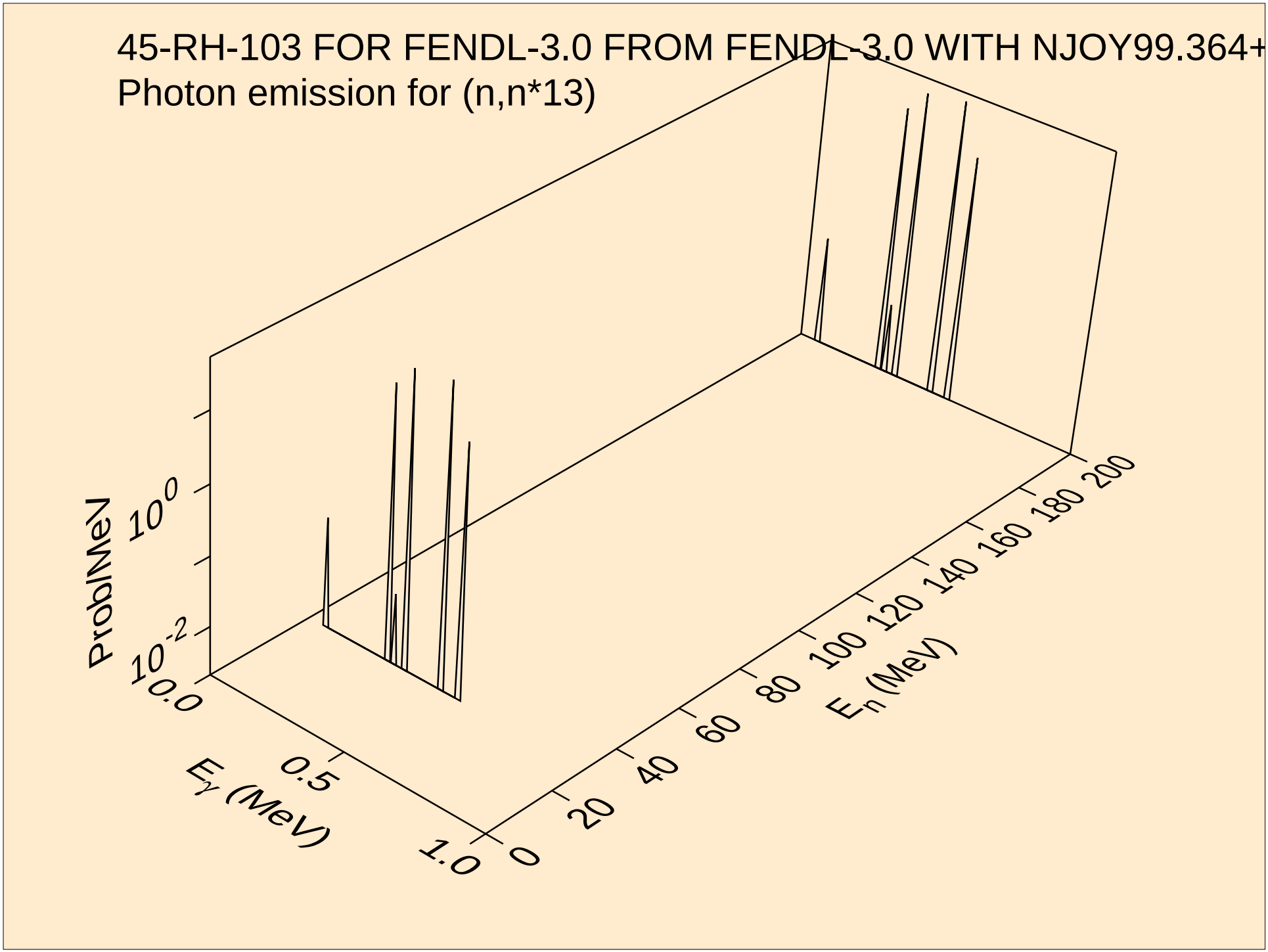

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*8)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

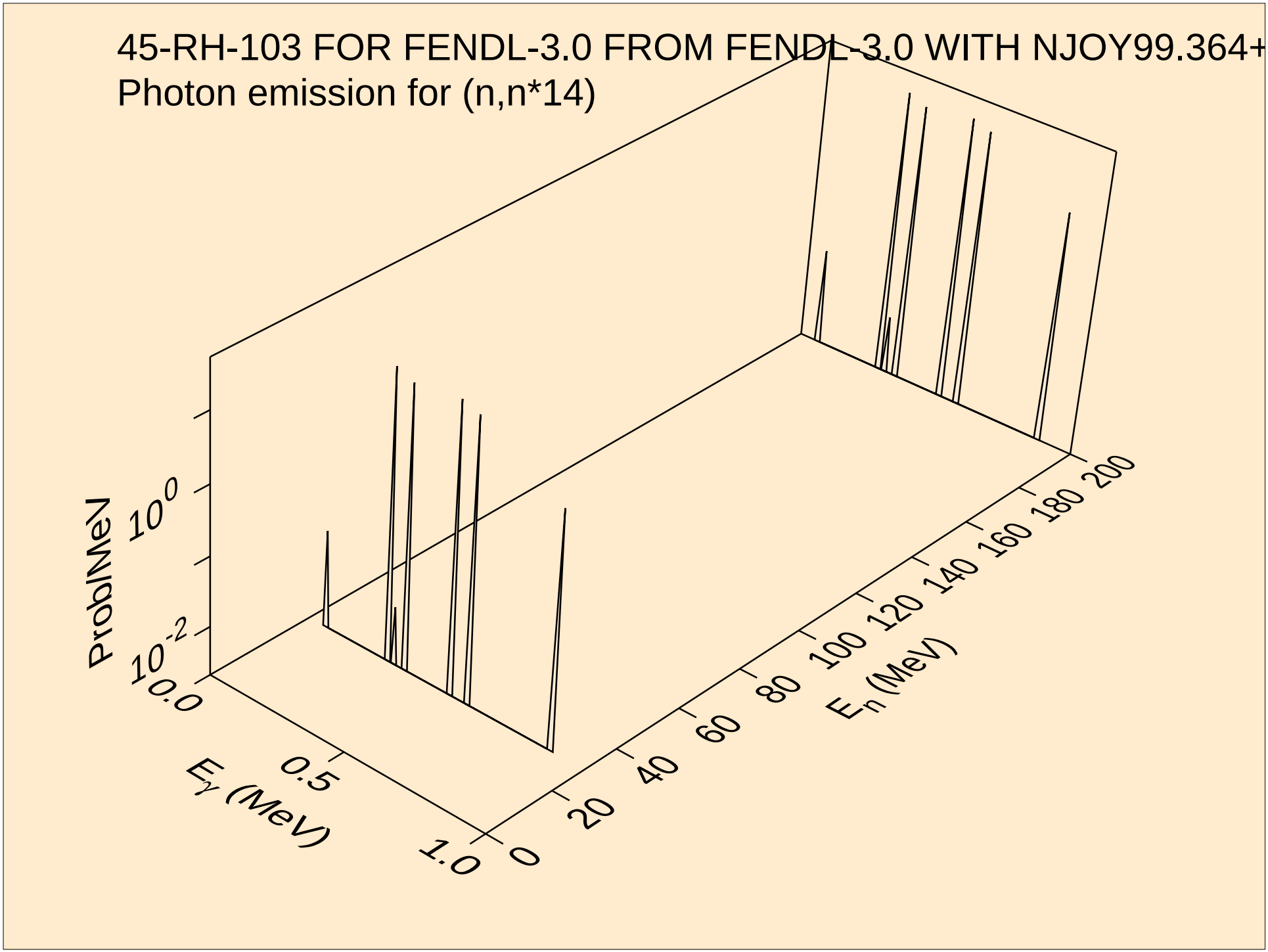

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*9)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

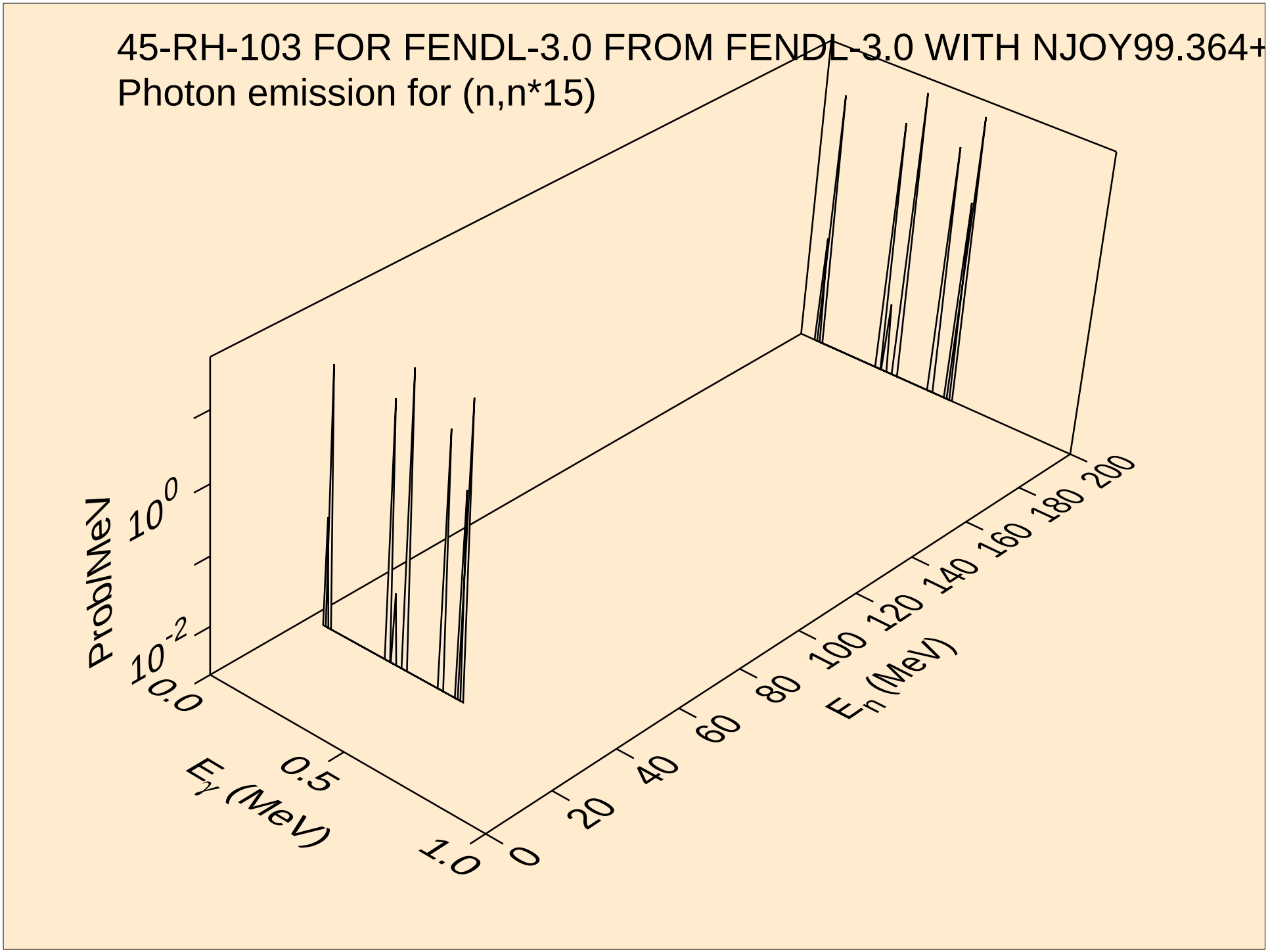

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*10)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

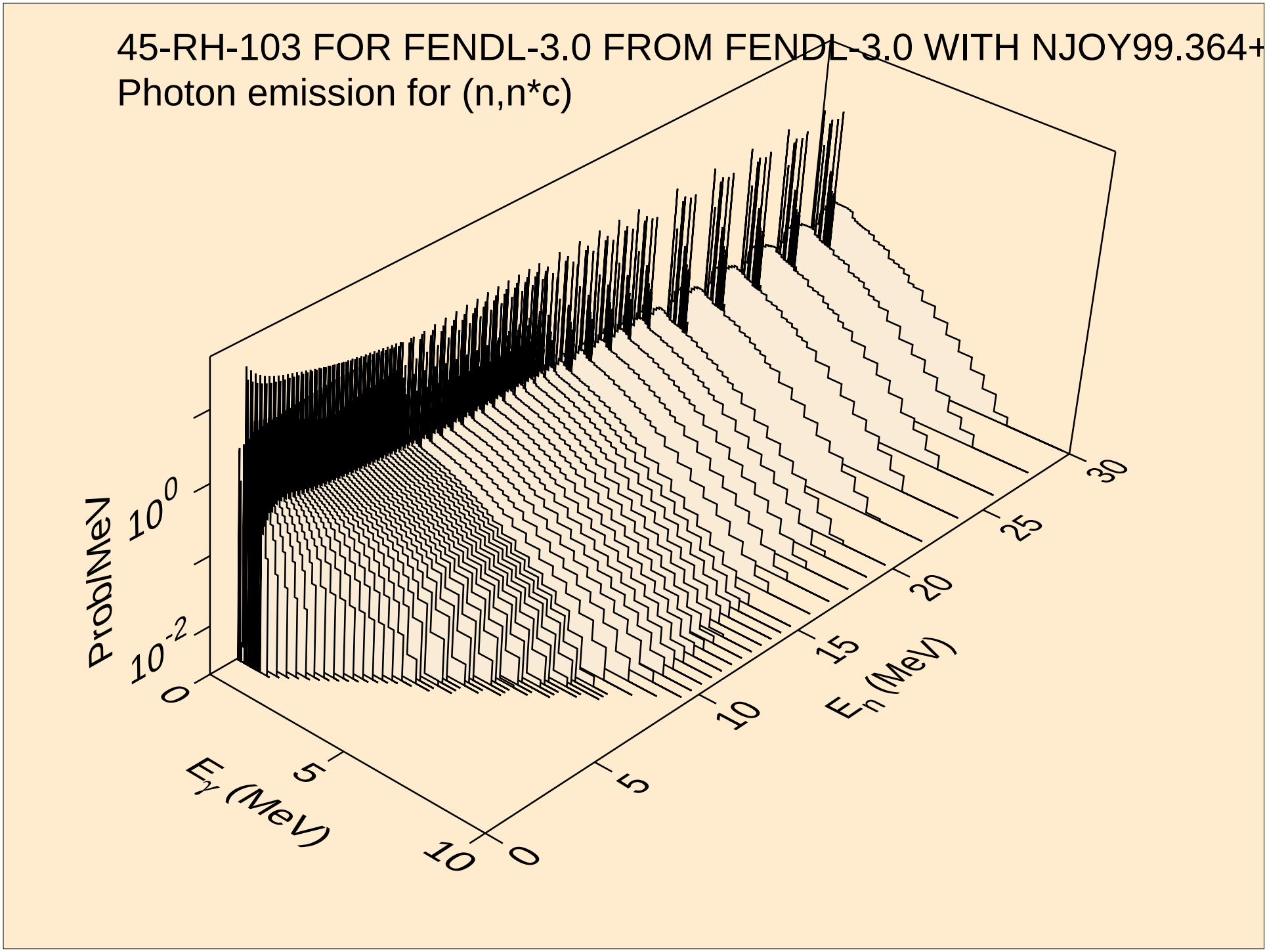

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*11)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

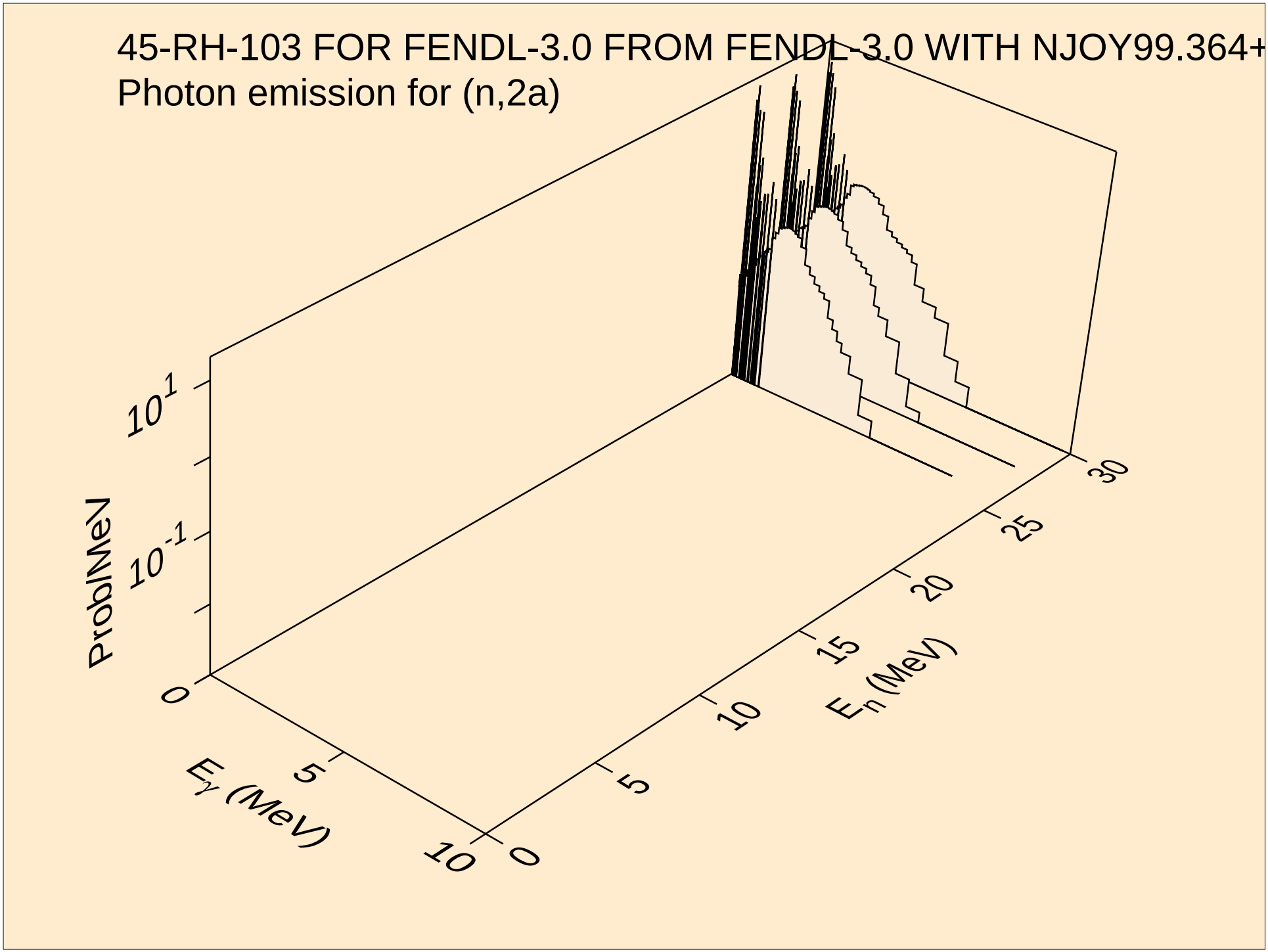

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*12)
Prob/MeV
10^0
10^-2
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

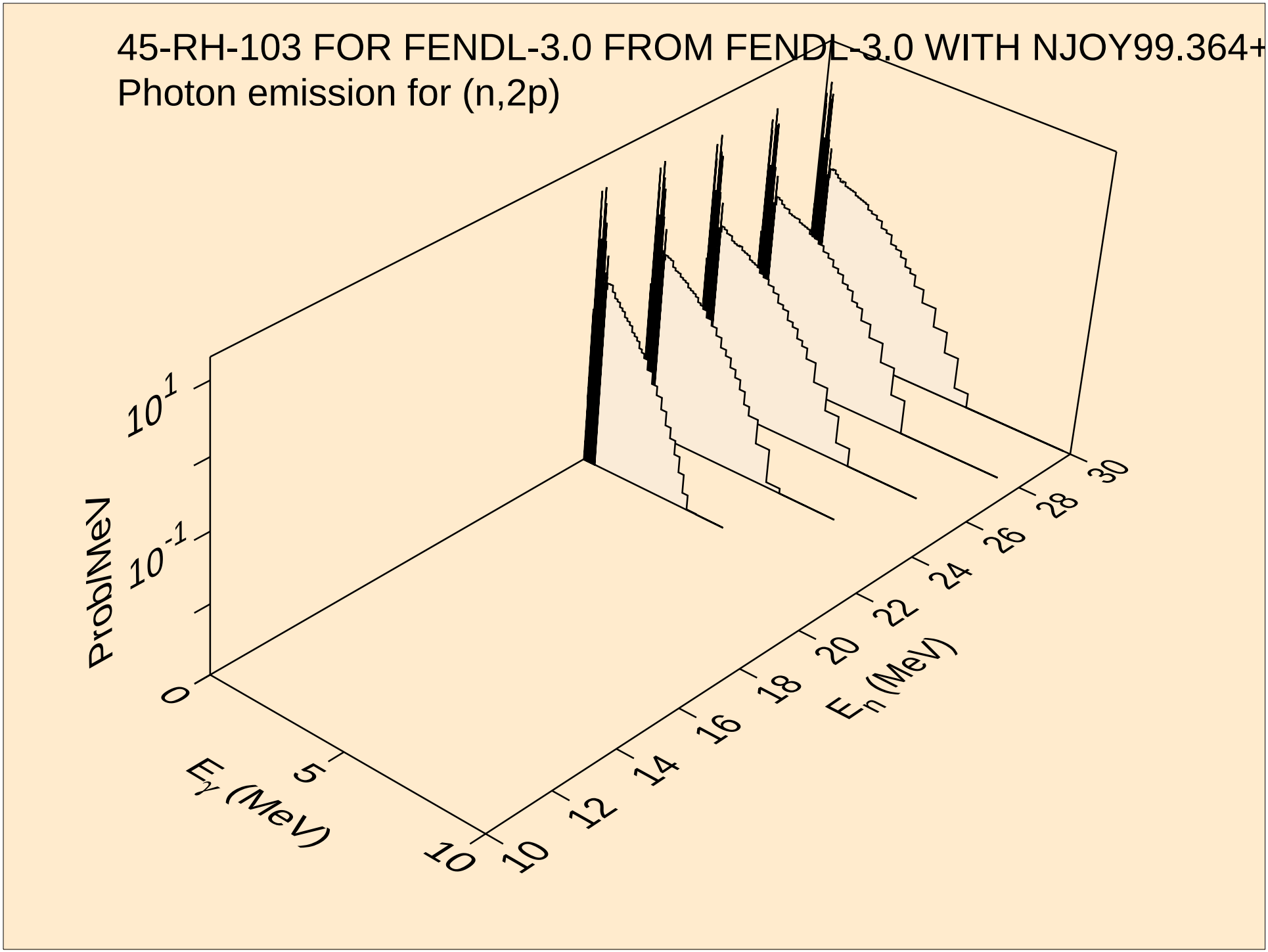

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*13)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

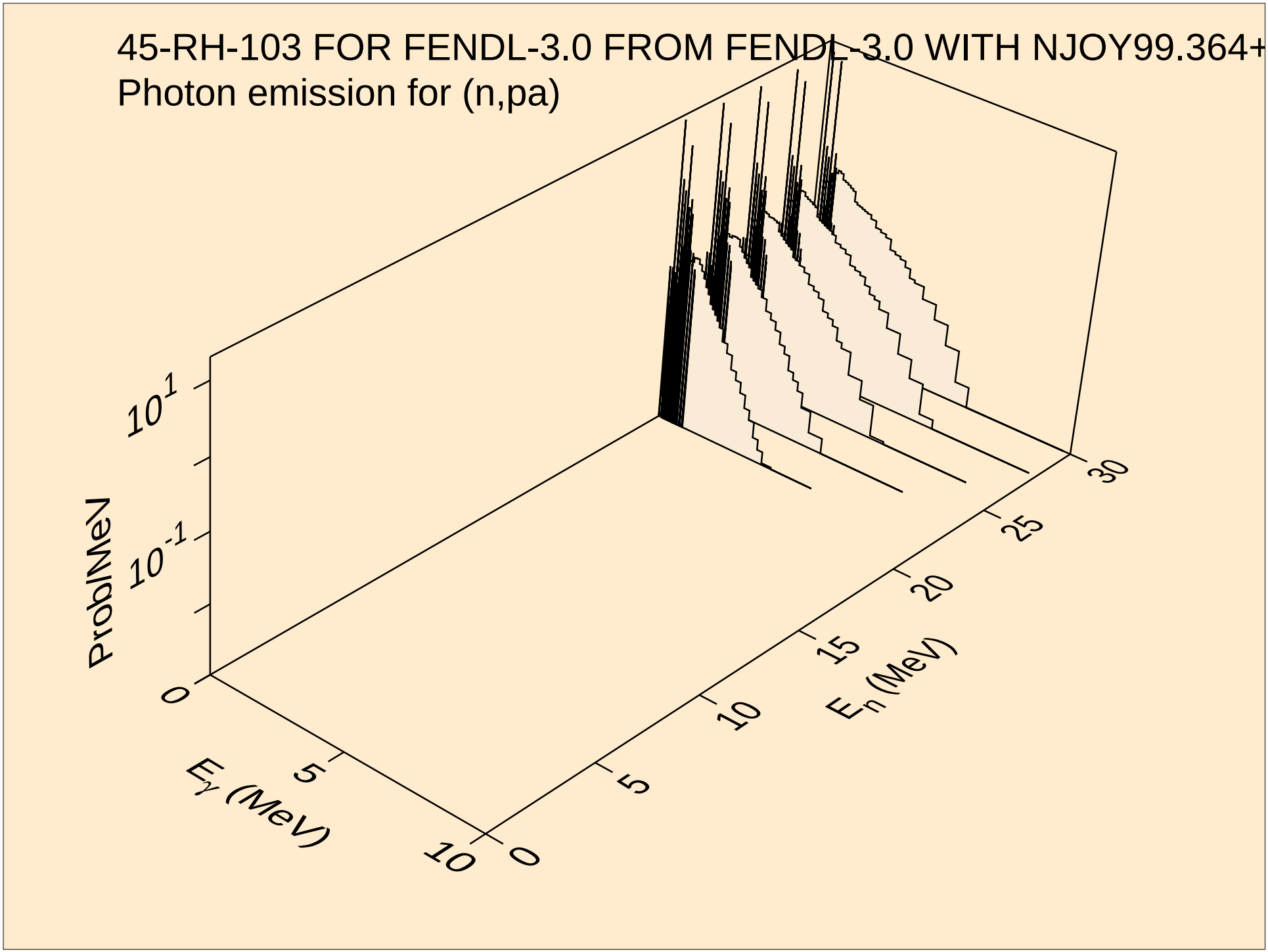

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*14)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

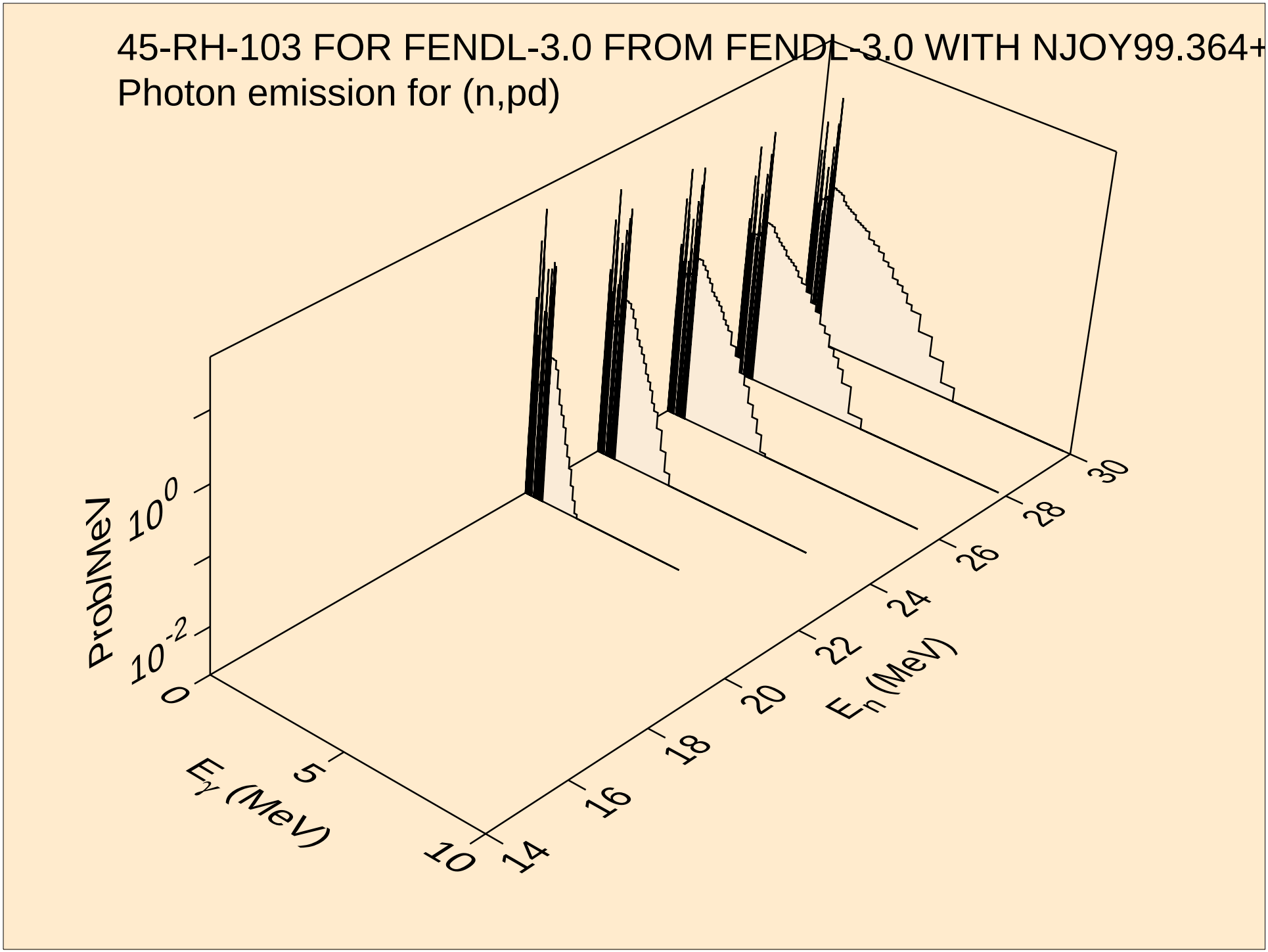

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*15)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

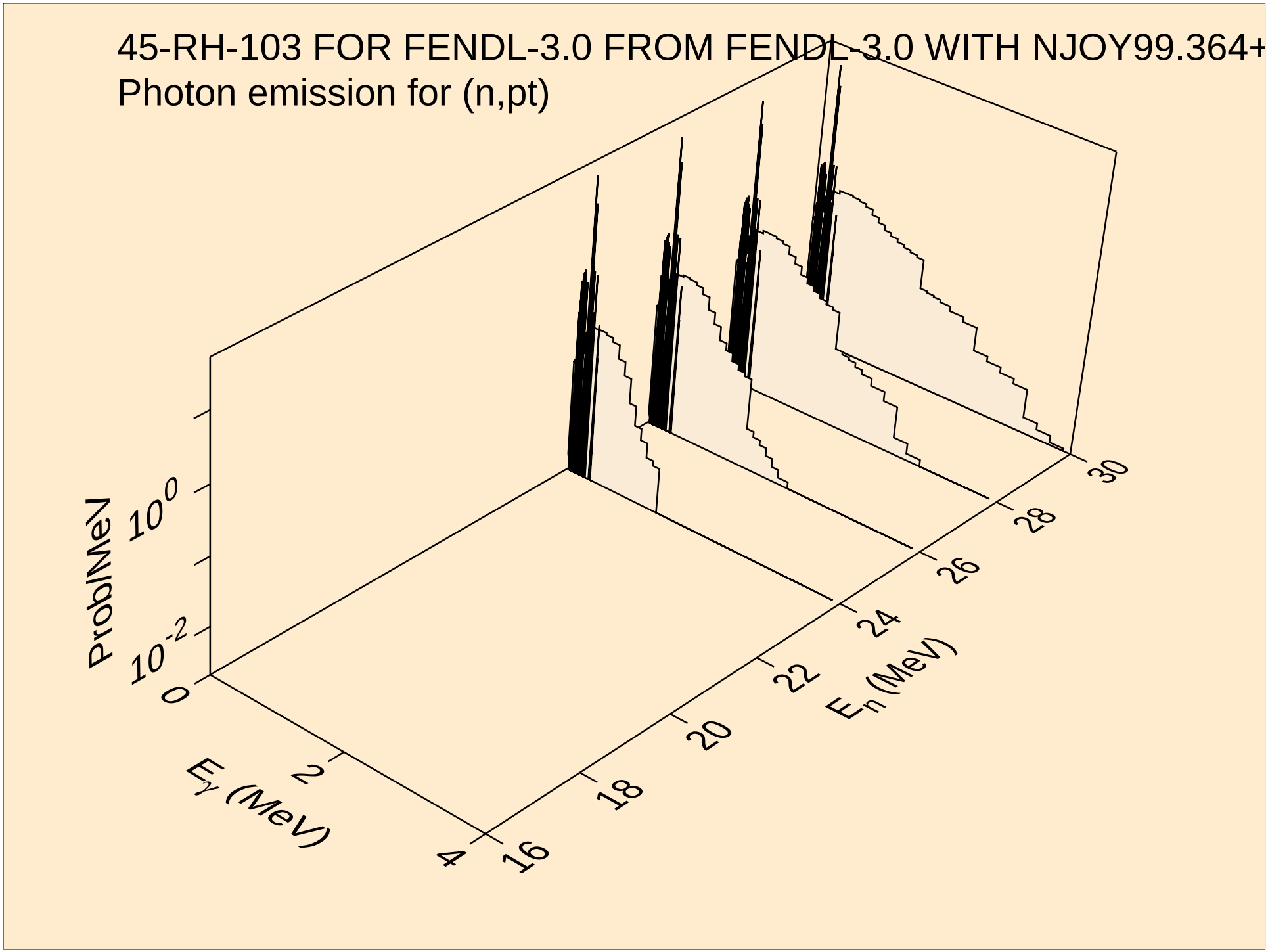

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,n*c)
Prob/MeV
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

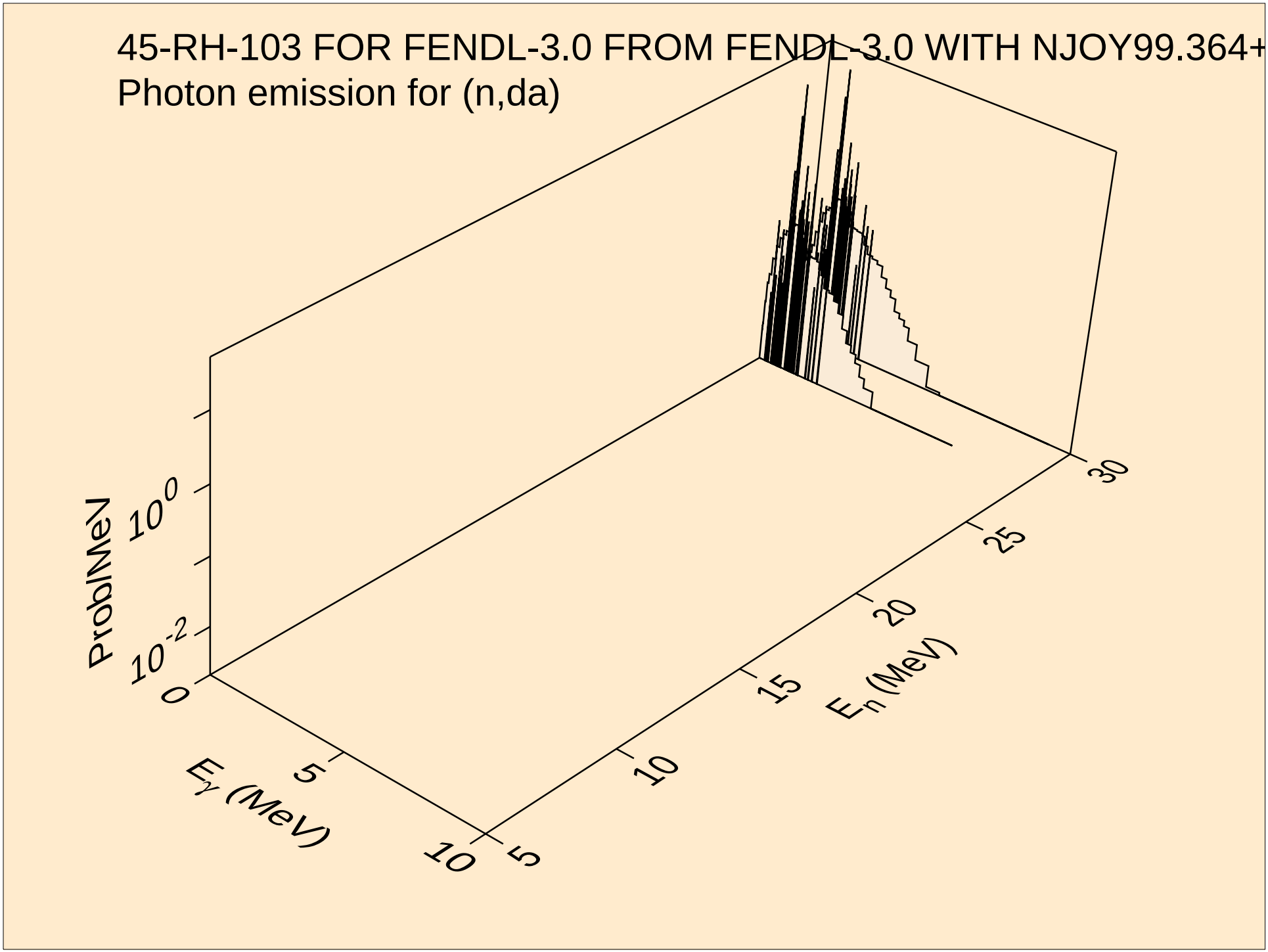

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,2a)
Prob/MeV
10^{1}
10^{-1}
0
E_γ (MeV)
5
10
0
5
10
15
20
25
30
E_n (MeV)

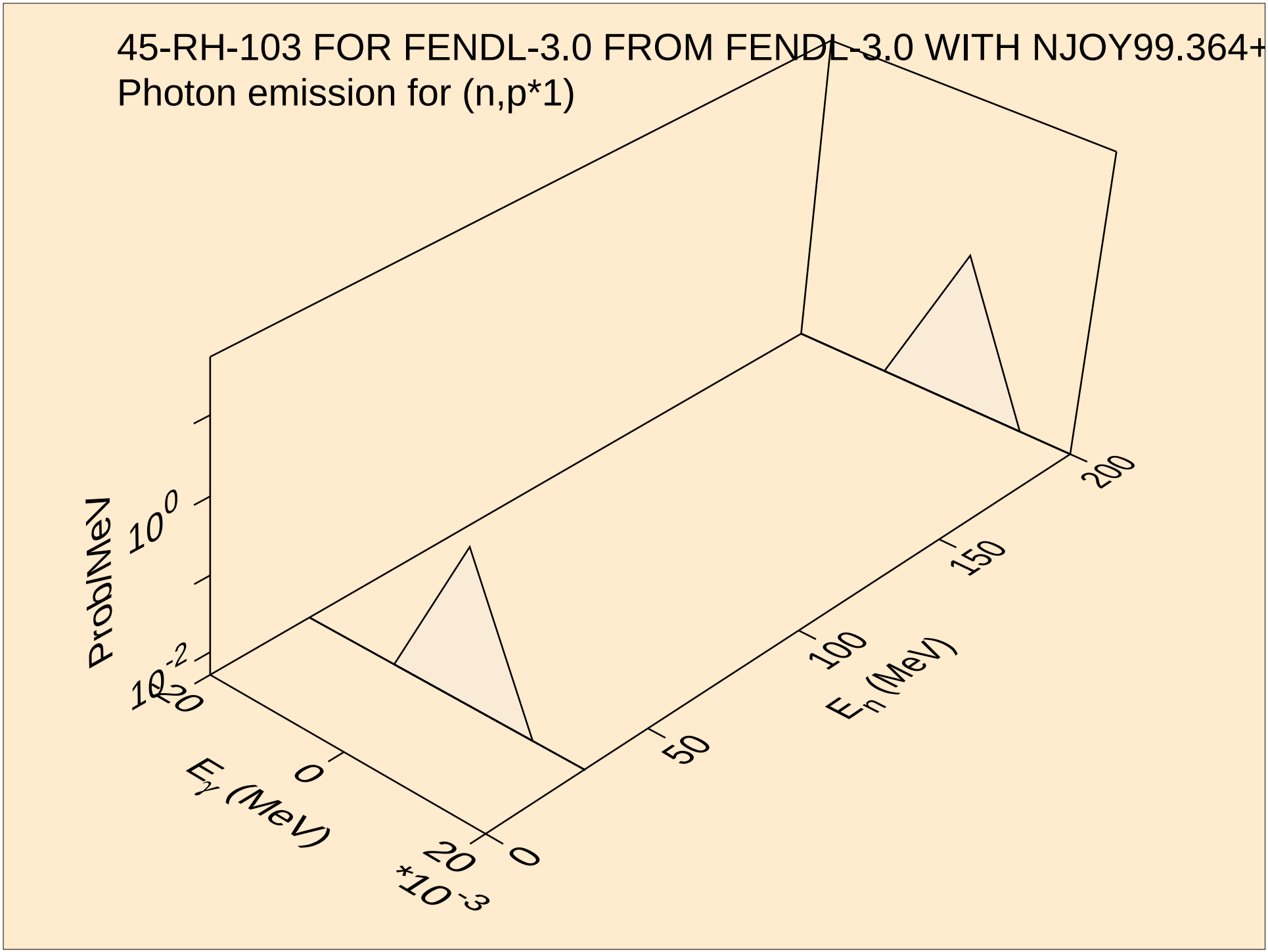

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,2p)
Prob/MeV
10^{1}
10^{-1}
0
E_γ (MeV)
5
10
10
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

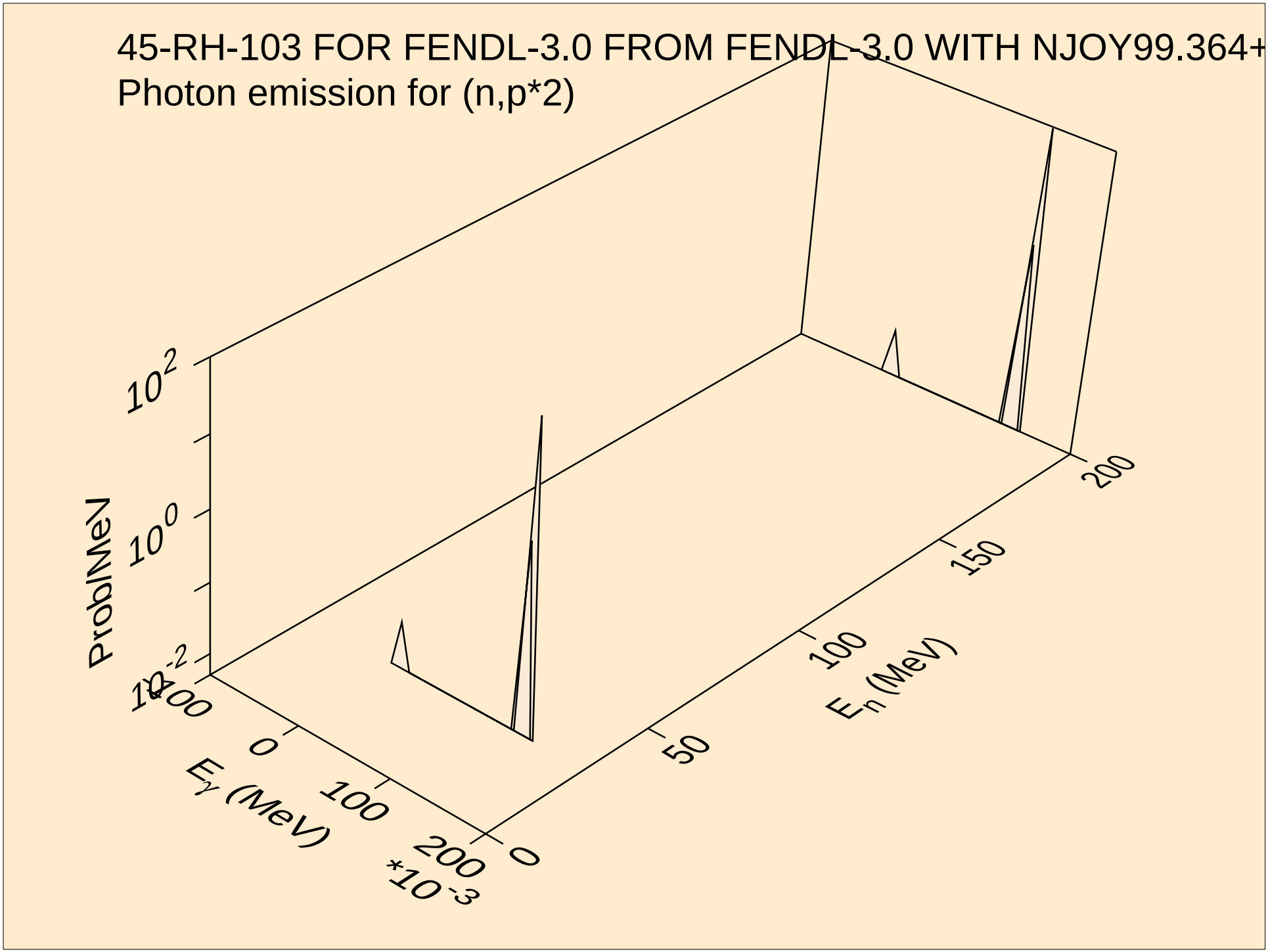

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,pa)
Prob/MeV
10^{1}
10^{-1}
0
E_γ (MeV)
5
10
0
5
10
15
20
25
30
E_n (MeV)

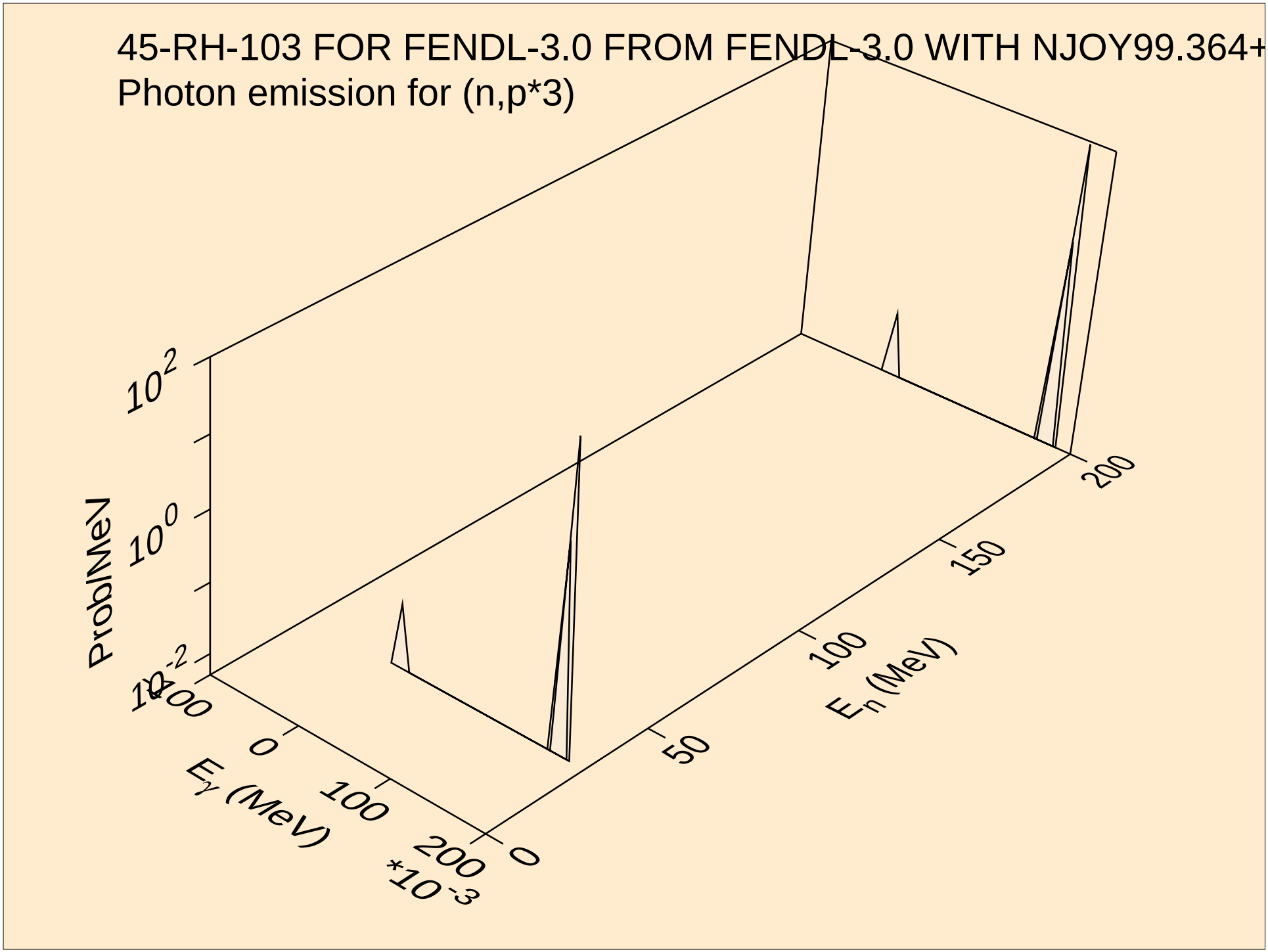

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,pd)
Prob/MeV
10^0
10^-2
0
5
10
Eγ (MeV)
14
16
18
20
22
24
26
28
30
En (MeV)

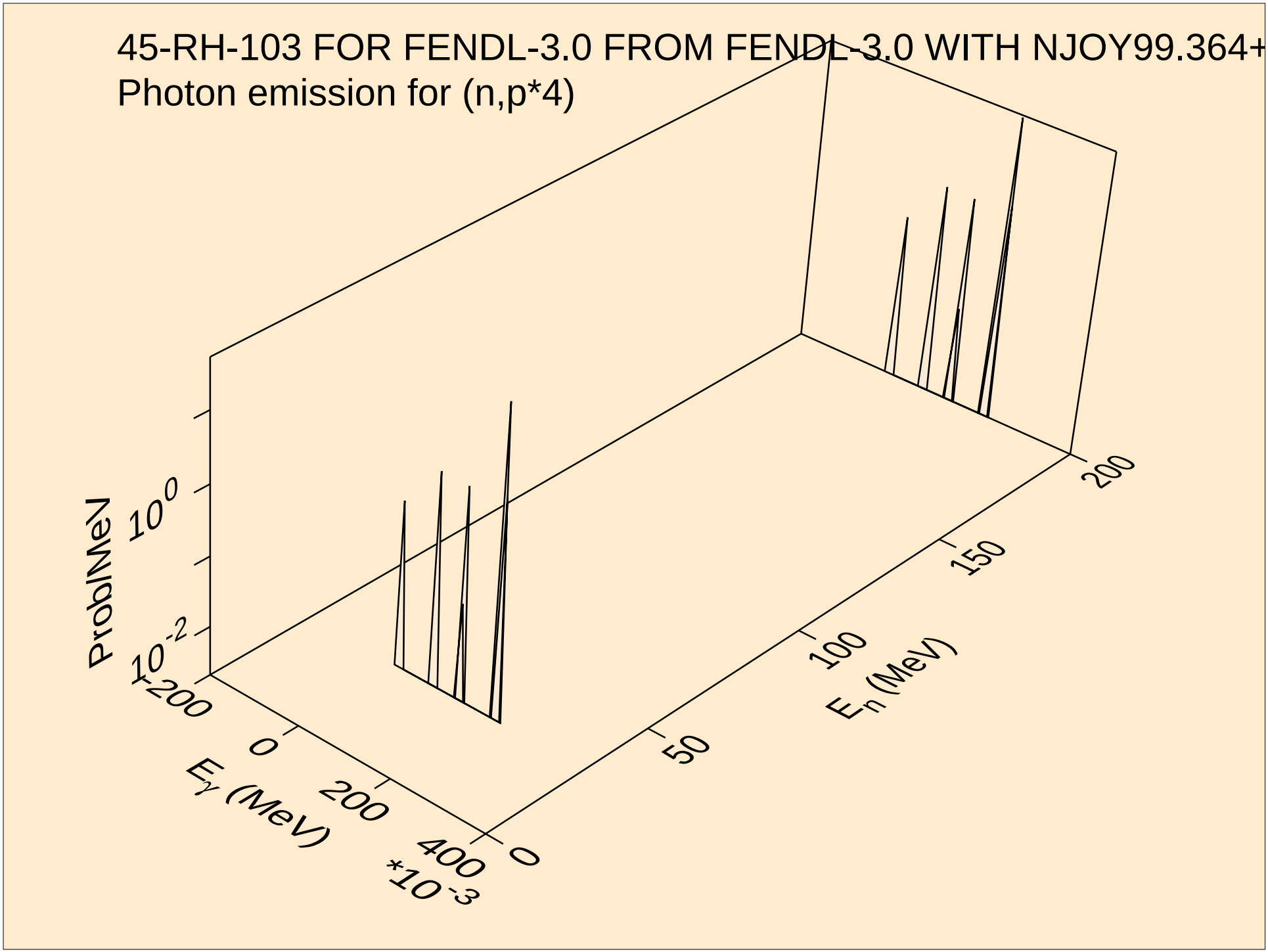

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,pt)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
2
4
16
18
20
22
24
26
28
30
E_n (MeV)

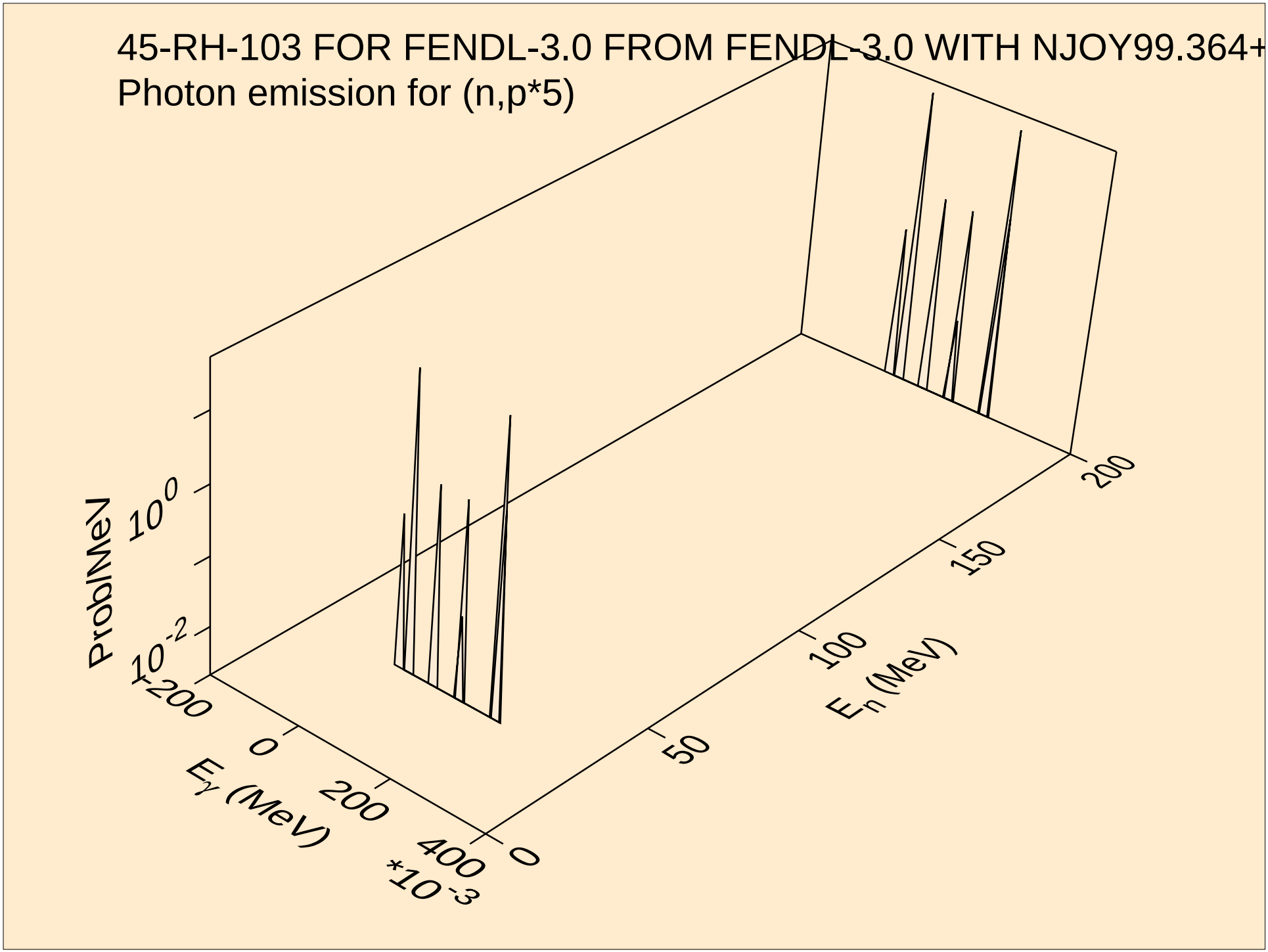

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,da)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

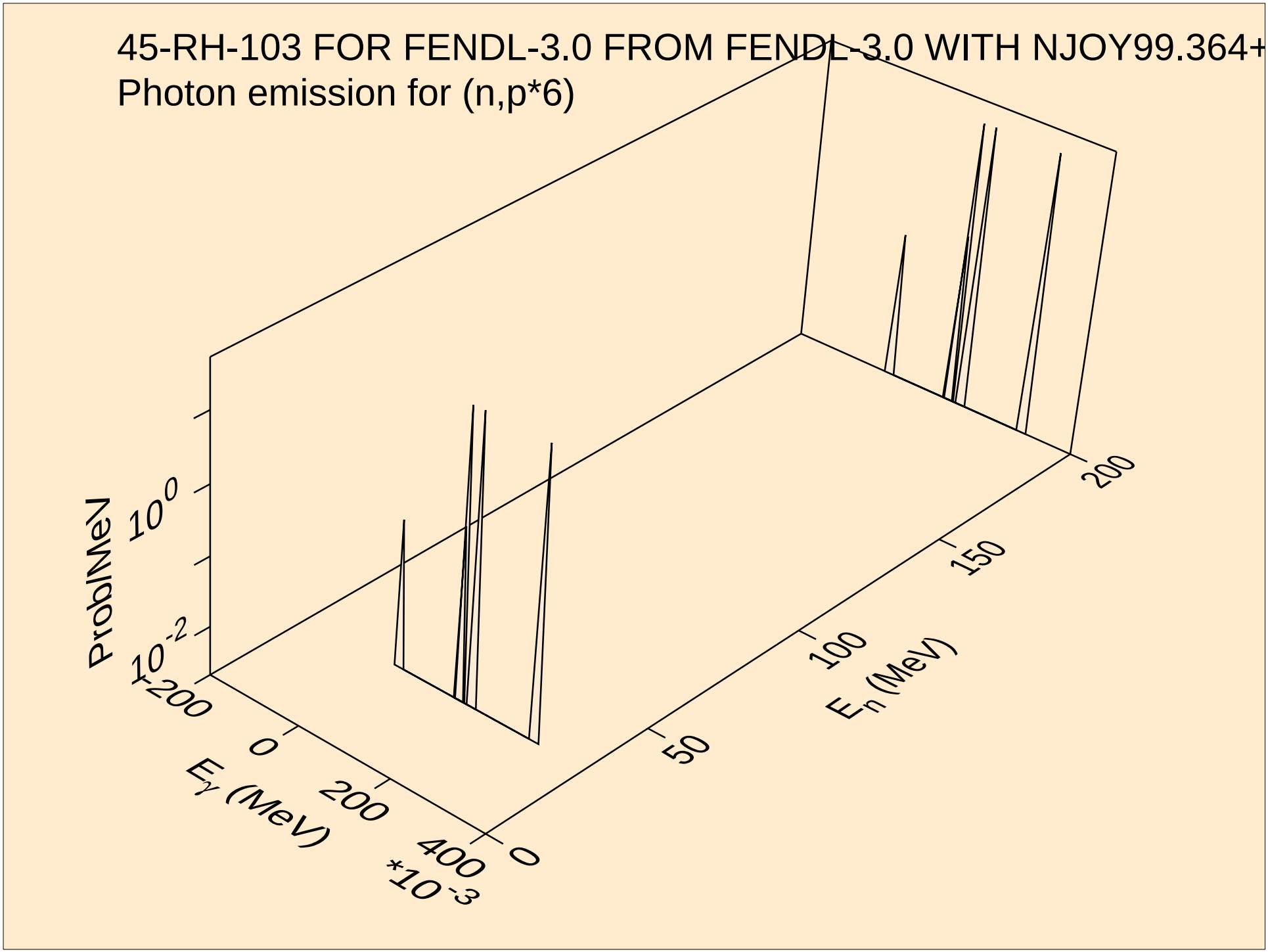

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*1)
Prob/MeV
10^0
10^-2
-20
0
20
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

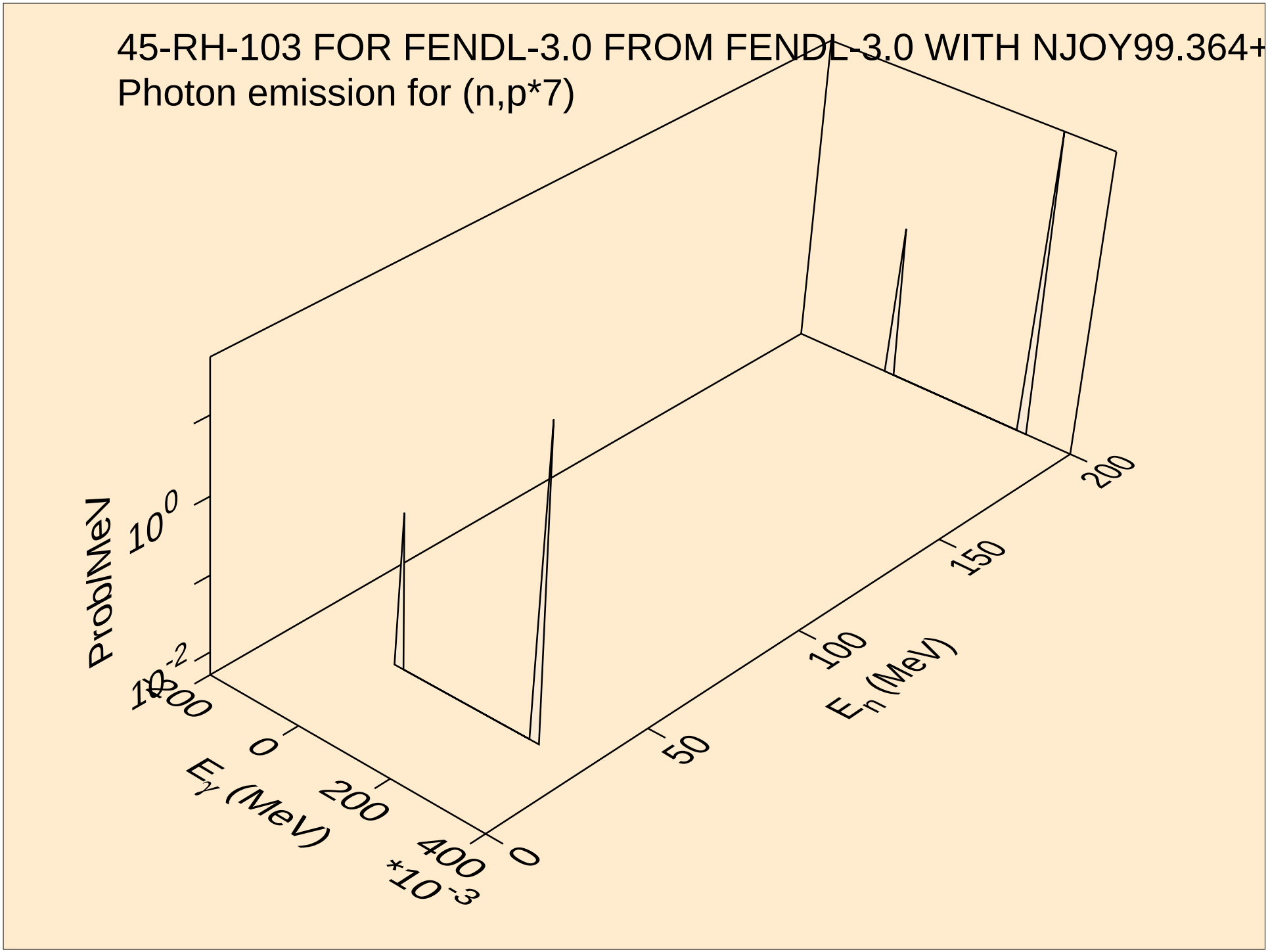

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*2)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
-200
0
100
200
*10 -3
0
50
100
150
200
E_n (MeV)

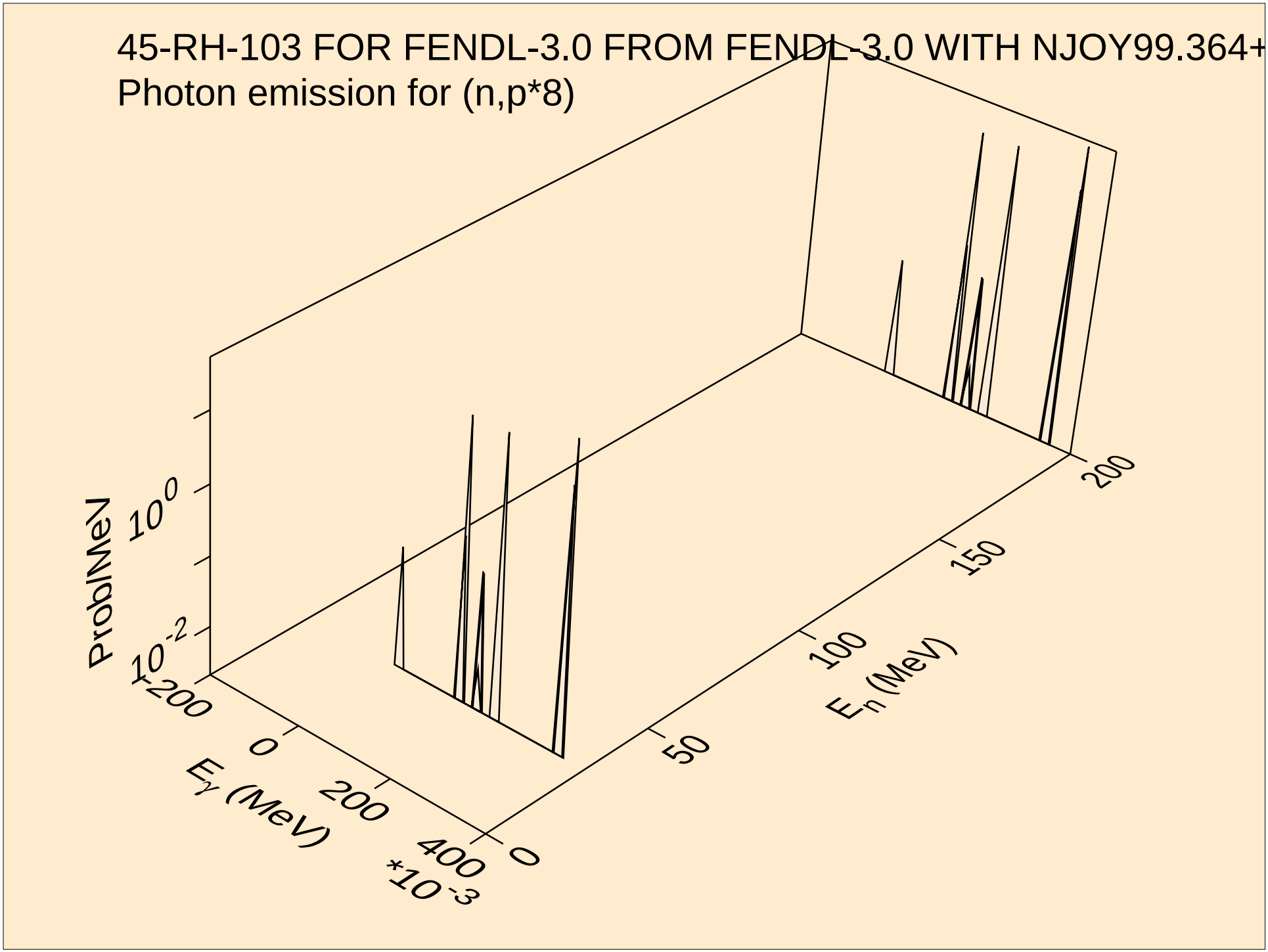

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*3)
Prob/MeV
10^{2}
10^{0}
10^{-2}
-200
0
100
200
E_γ (MeV)
*10 -3
0
50
100
150
200
E_n (MeV)

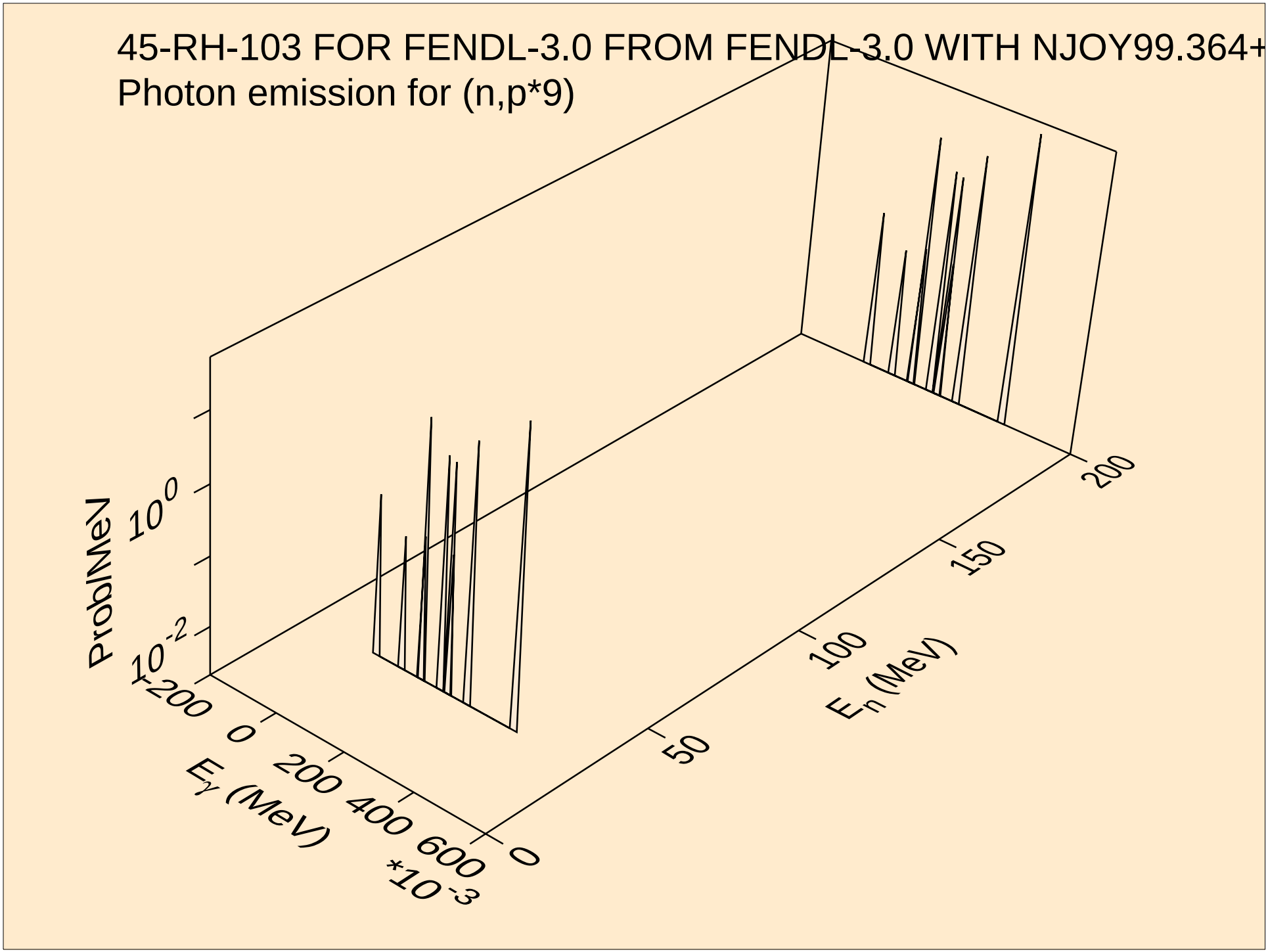

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*4)
Prob/MeV
10^0
10^-2
-200
0
200
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

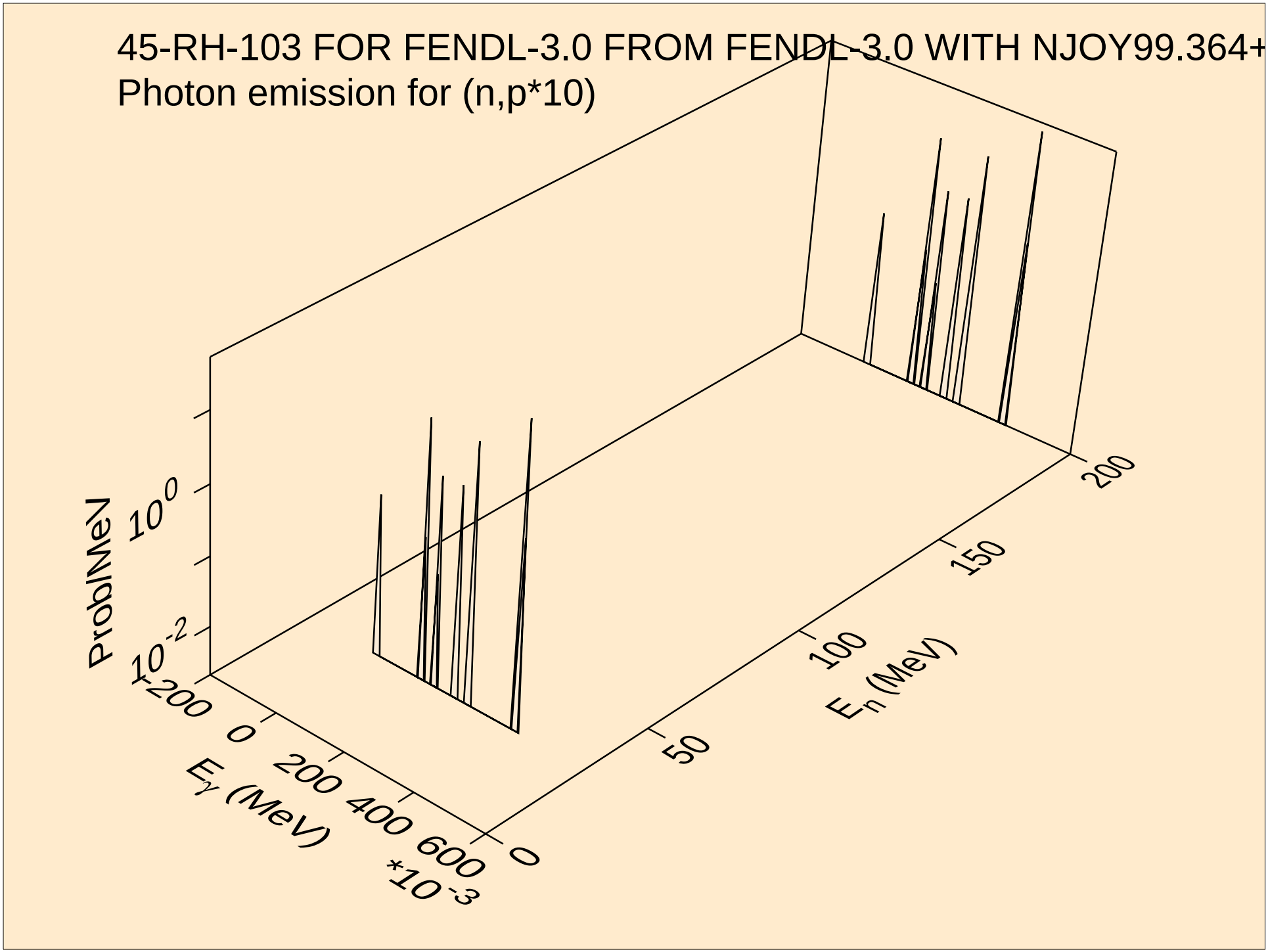

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*5)
Prob/MeV
10^0
10^-2
-200
0
200
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

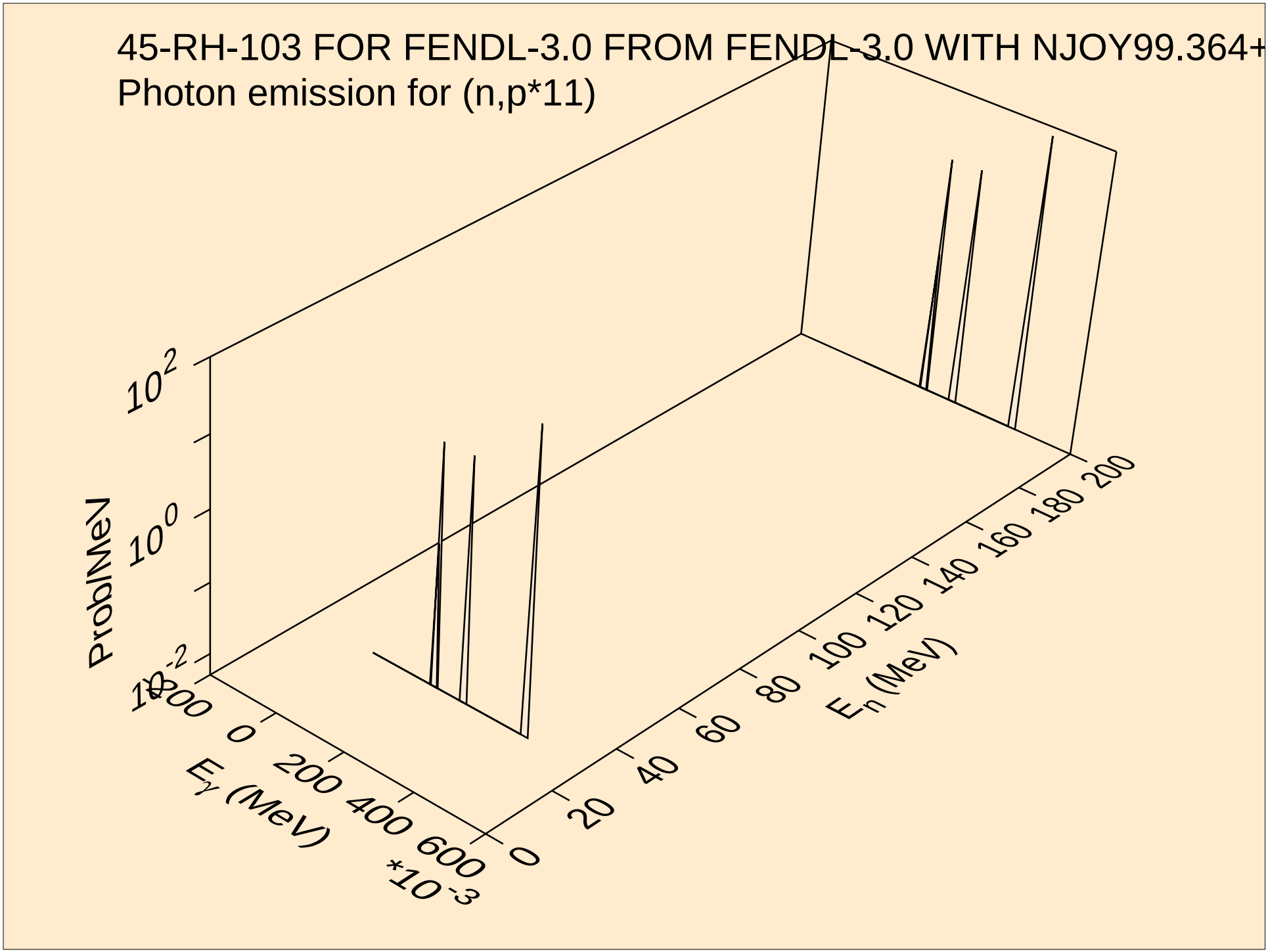

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*6)
Prob/MeV
10^0
10^-2
-200
0
200
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

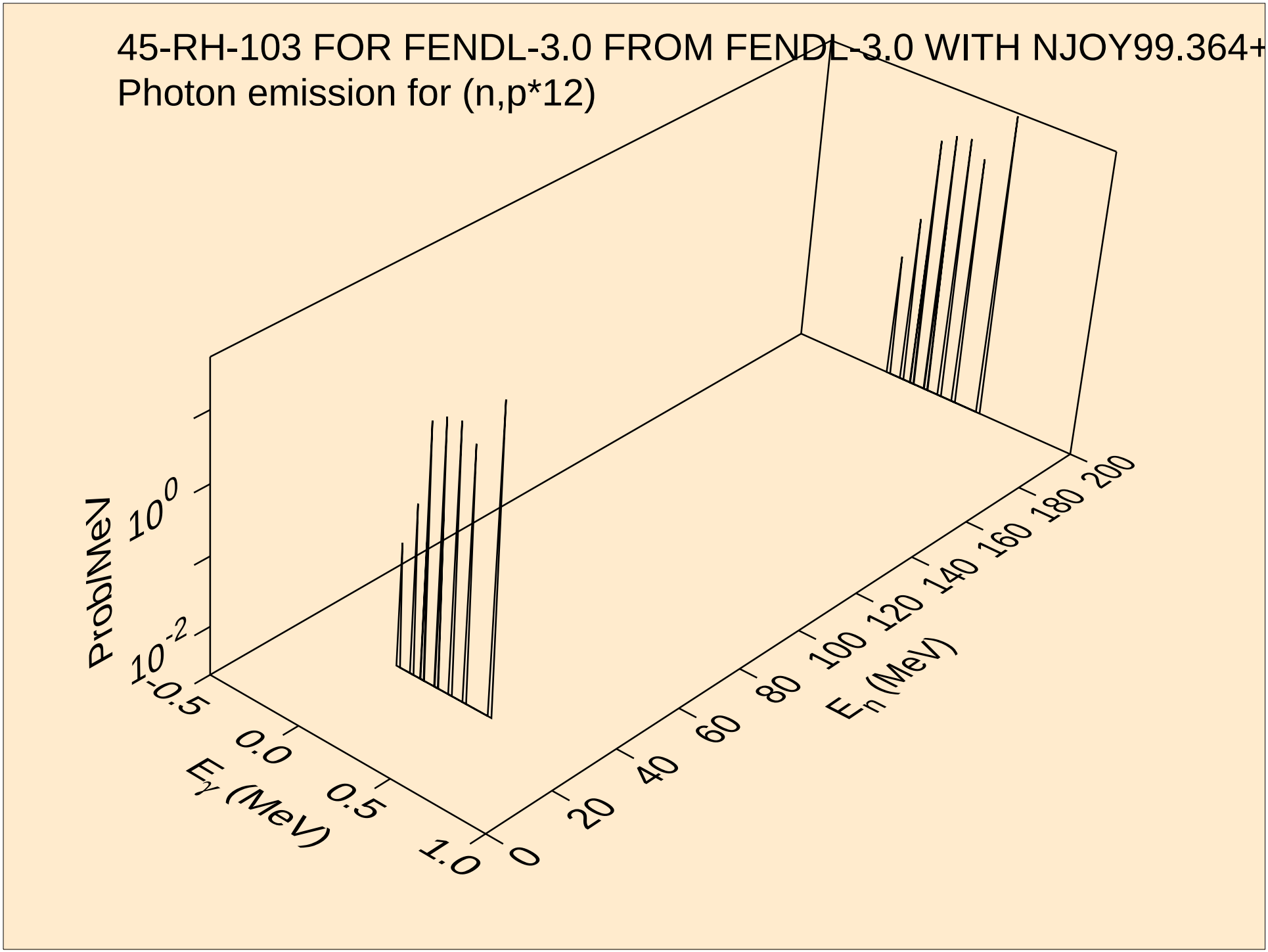

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*7)
Prob/MeV
10^0
10^-2
-200
0
200
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

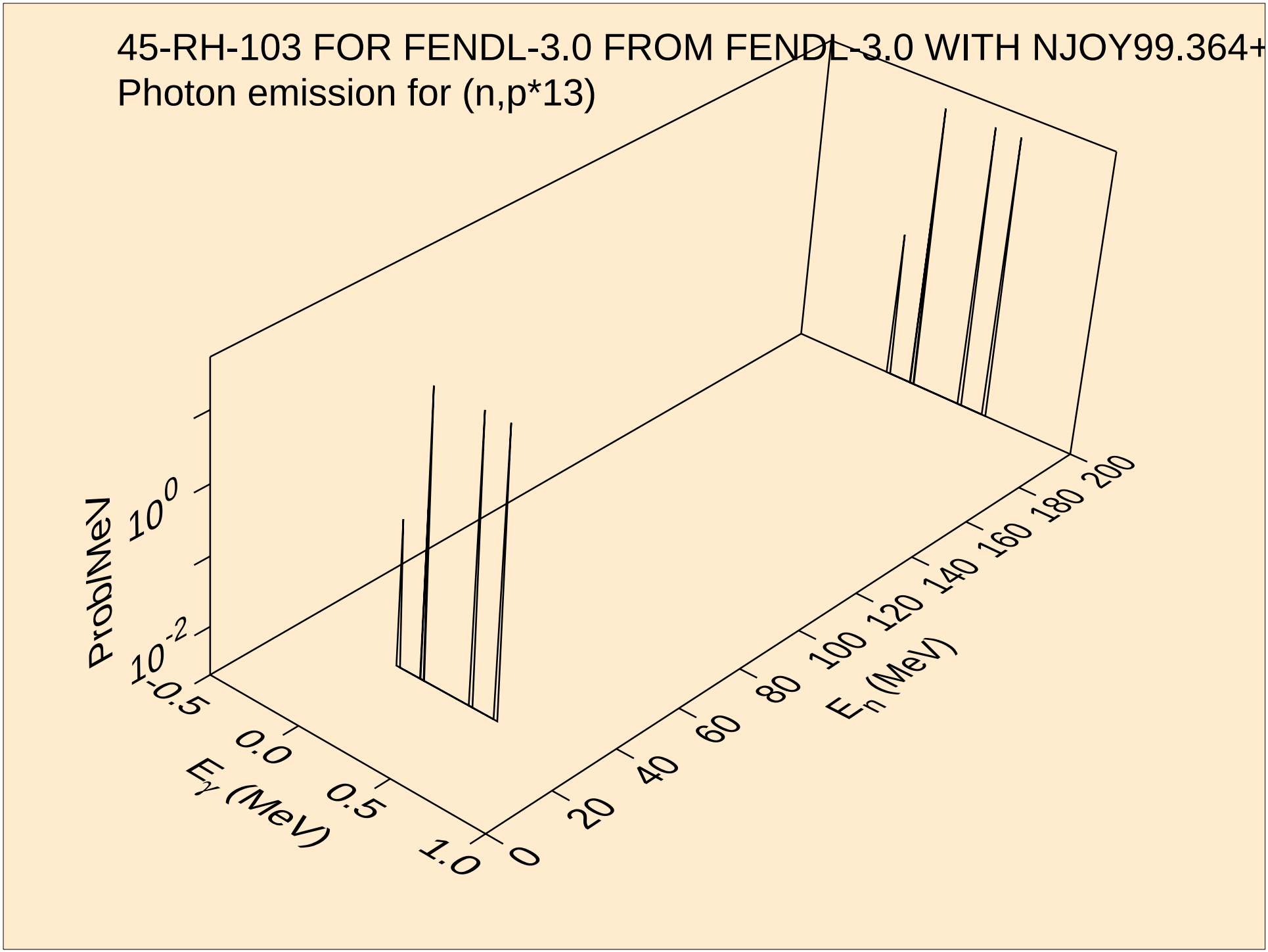

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*8)
Prob/MeV
10^0
10^-2
-200
0
200
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

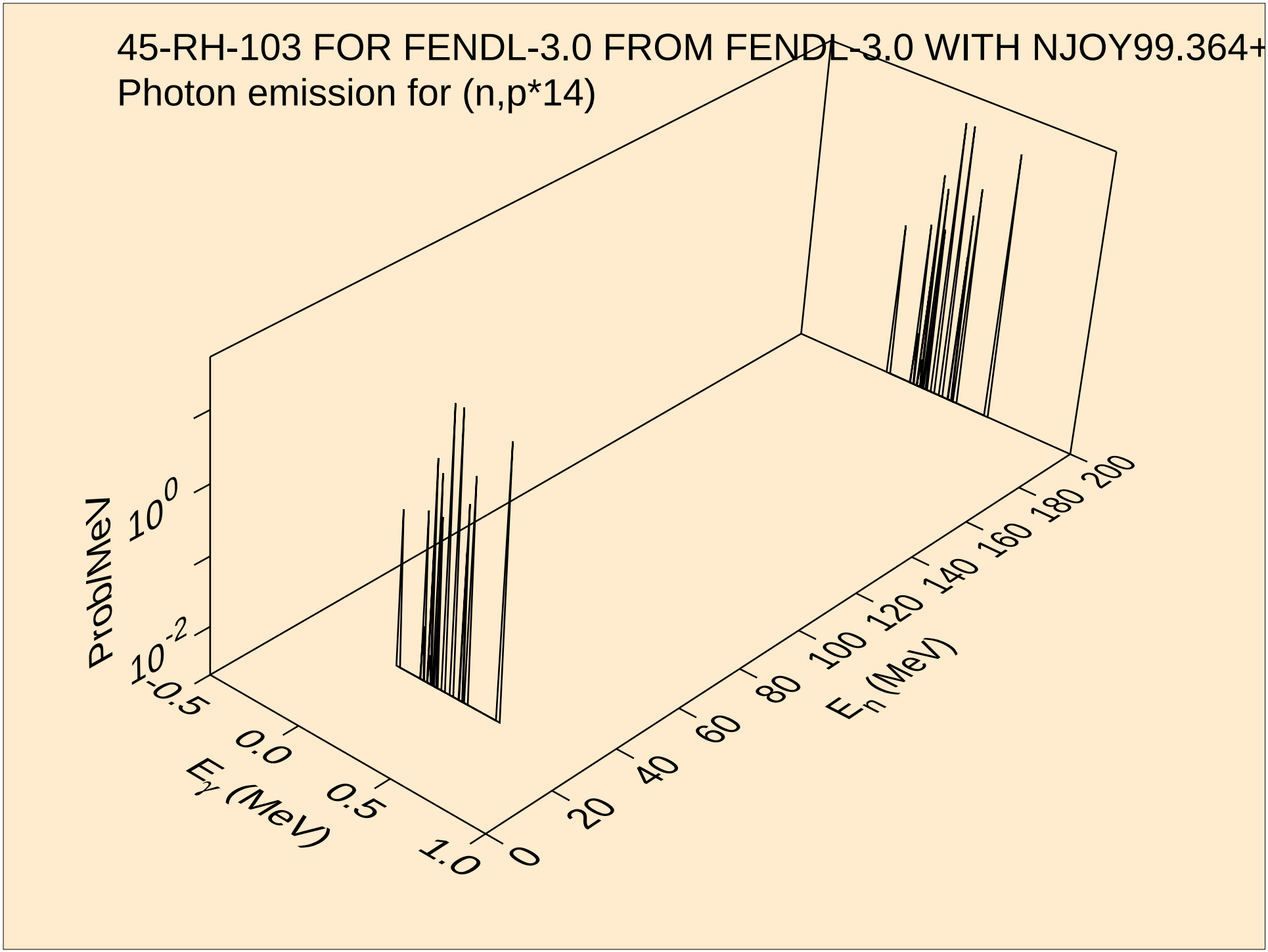

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*9)
Prob/MeV
10^0
10^-2
-200
0
200
400
600
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

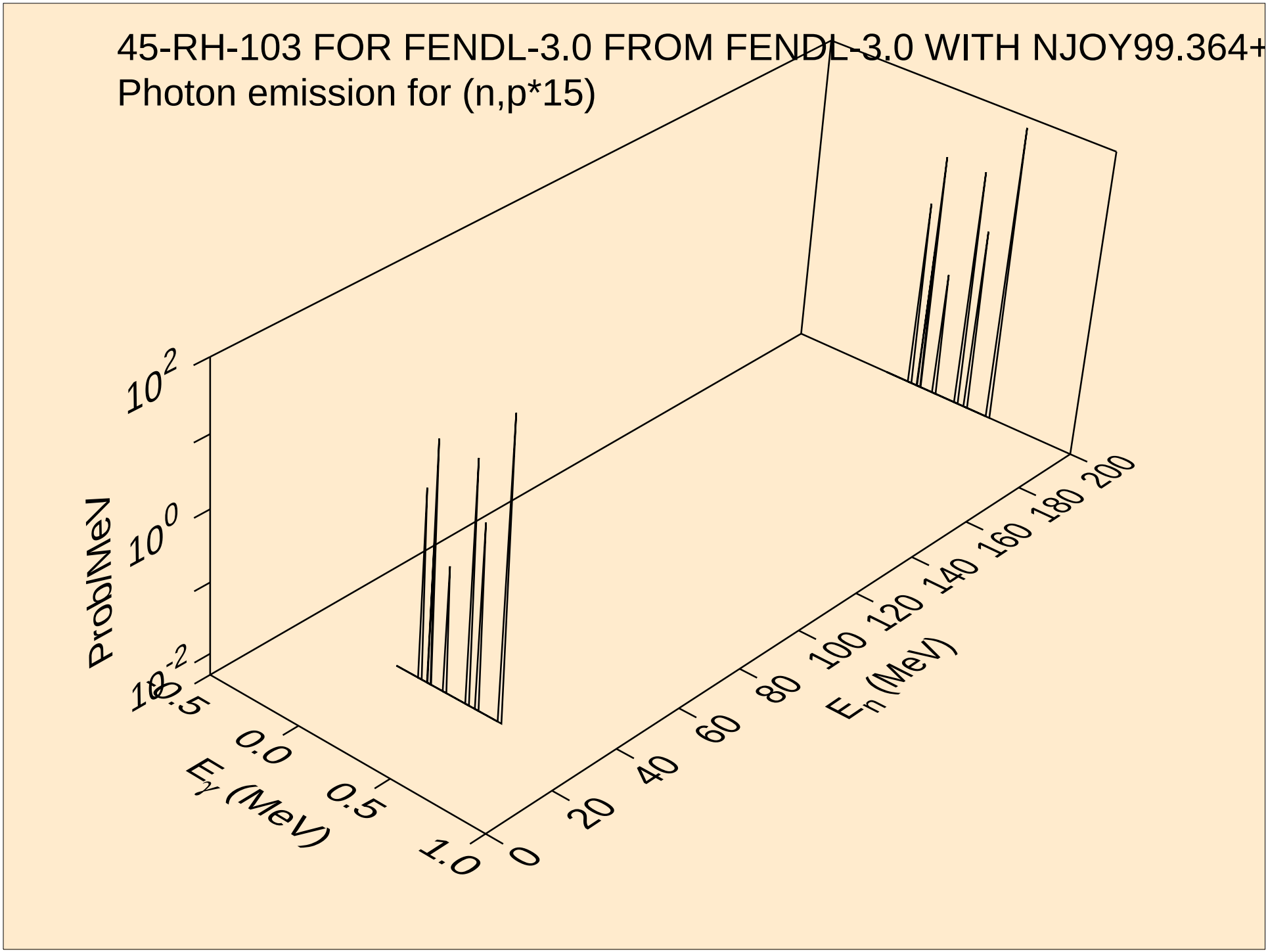

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*10)
Prob/MeV
10^0
10^-2
-200
0
200
400
600
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

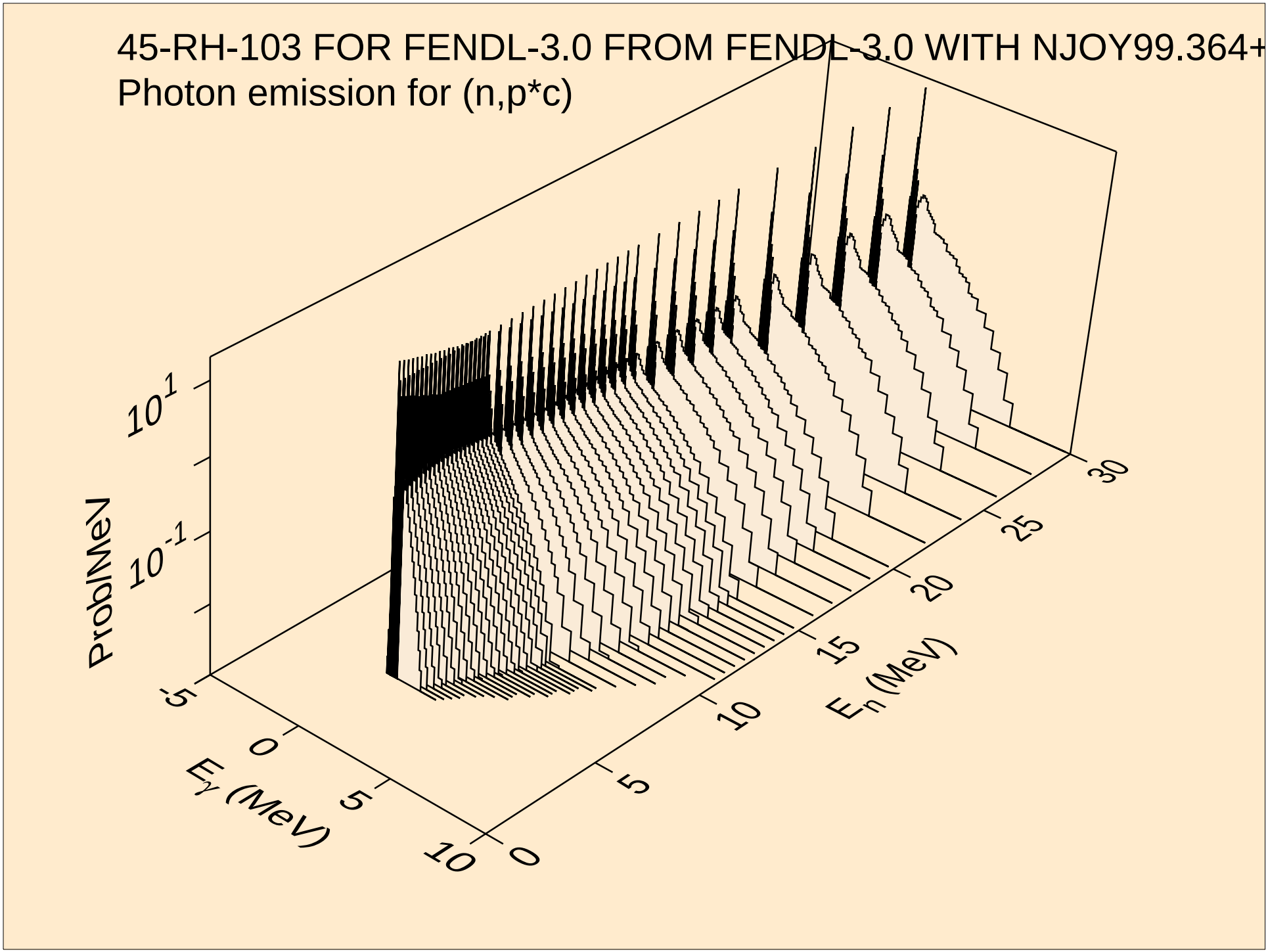

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*11)
Prob/MeV
10^{2}
10^{0}
10^{-2}
-200
0
200
400
600
E_γ (MeV)
*10 -3
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

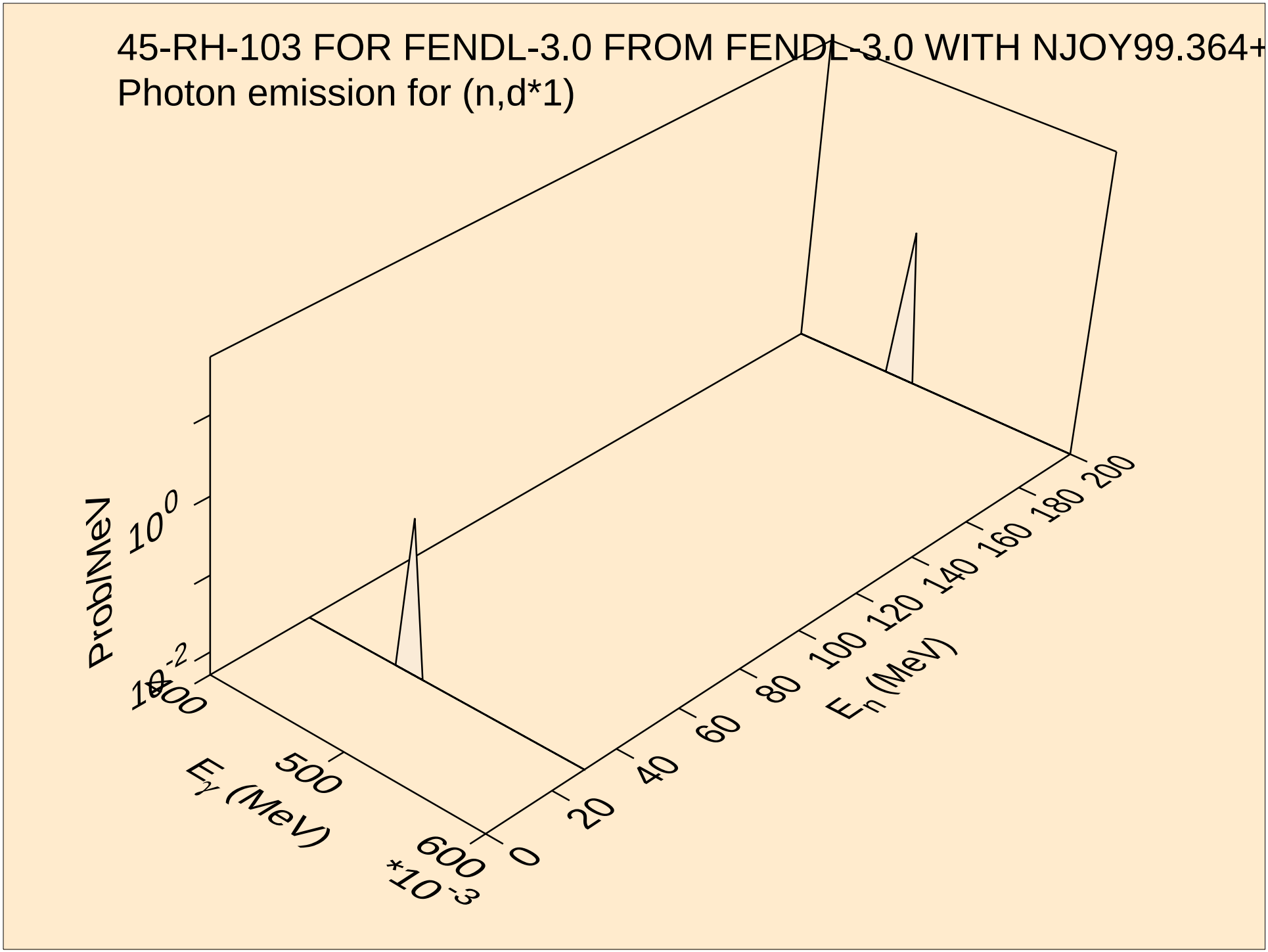

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*12)
Prob/MeV
10^{0}
10^{-2}
-0.5
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

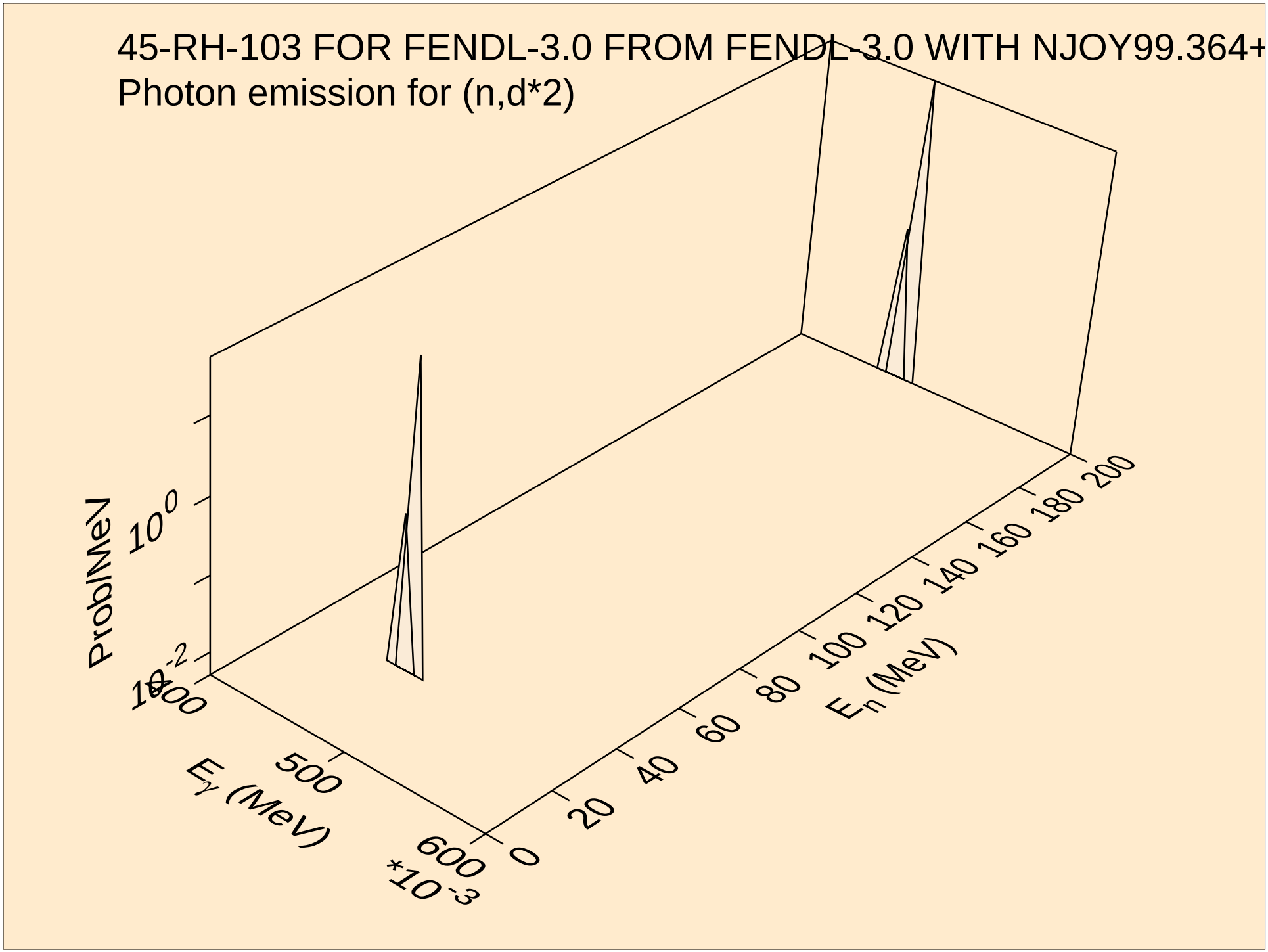

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*13)
Prob/MeV
10^0
10^-2
-0.5
0.0
0.5
1.0
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

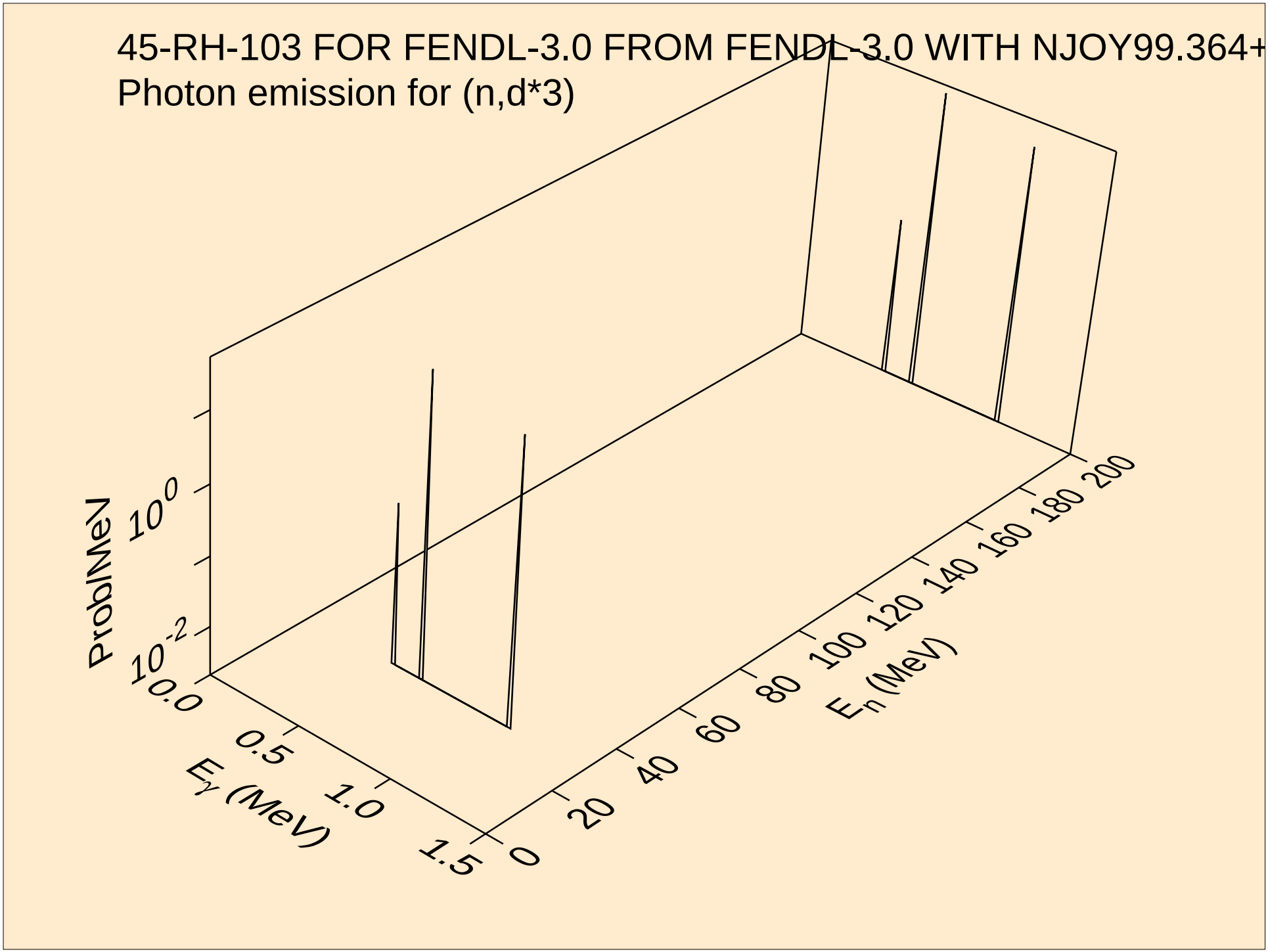

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*14)
Prob/MeV
10^0
10^-2
-0.5
0.0
0.5
1.0
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

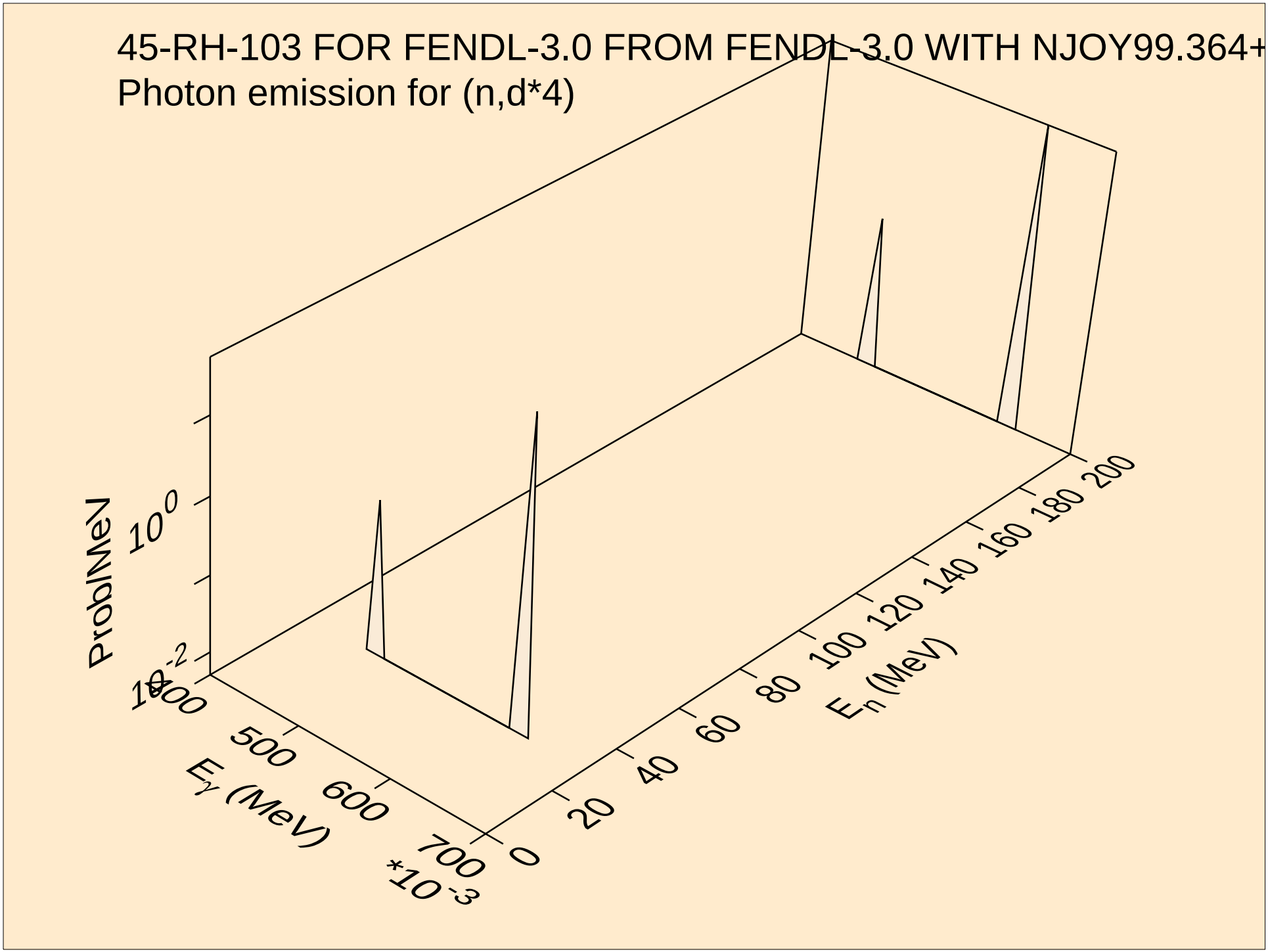

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*15)
Prob/MeV
10^{2}
10^{0}
10^{-2}
-0.5
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

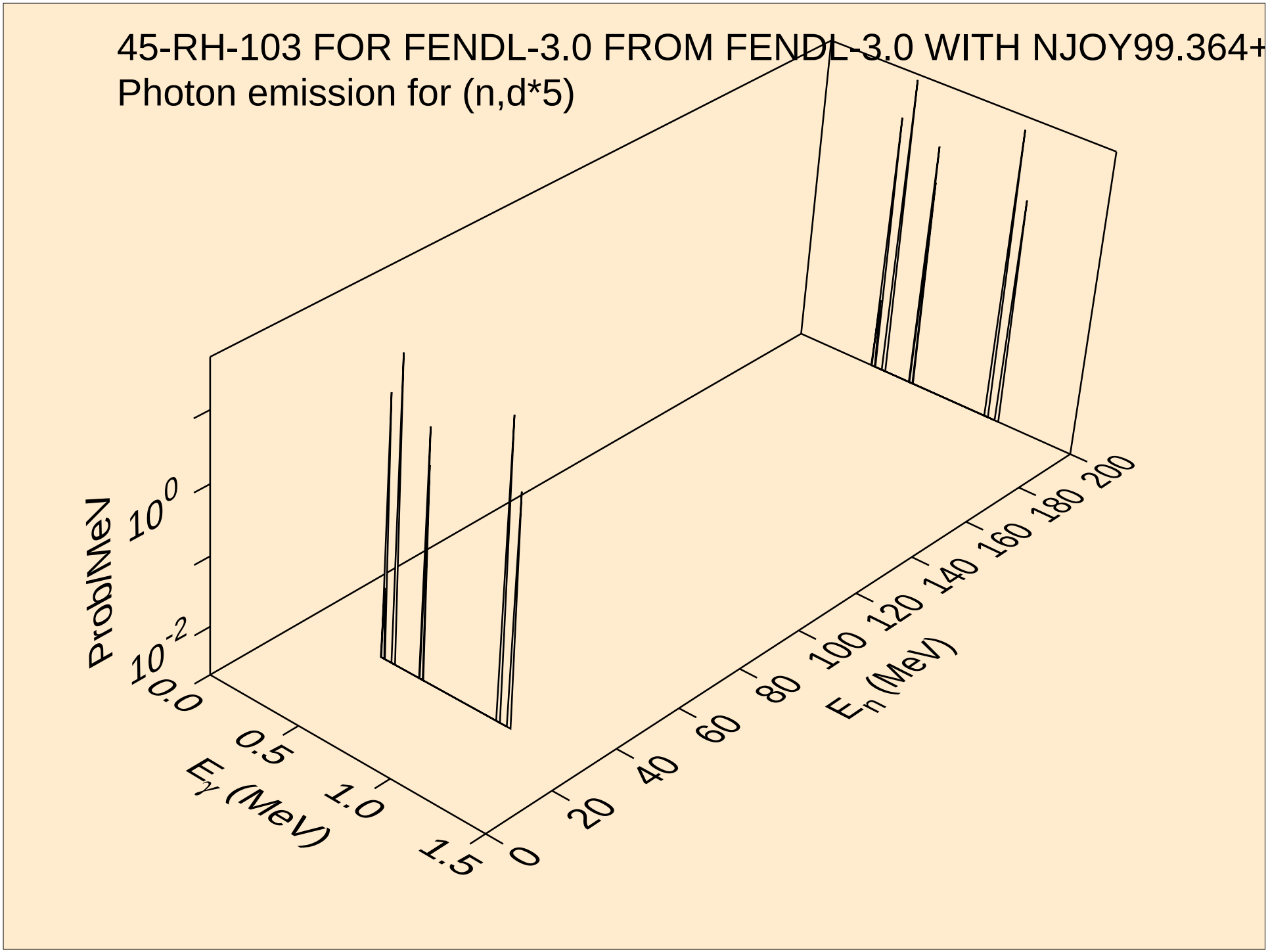

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,p*c)
Prob/MeV
10^{1}
10^{-1}
E_γ (MeV)
-5
0
5
10
E_n (MeV)
0
5
10
15
20
25
30

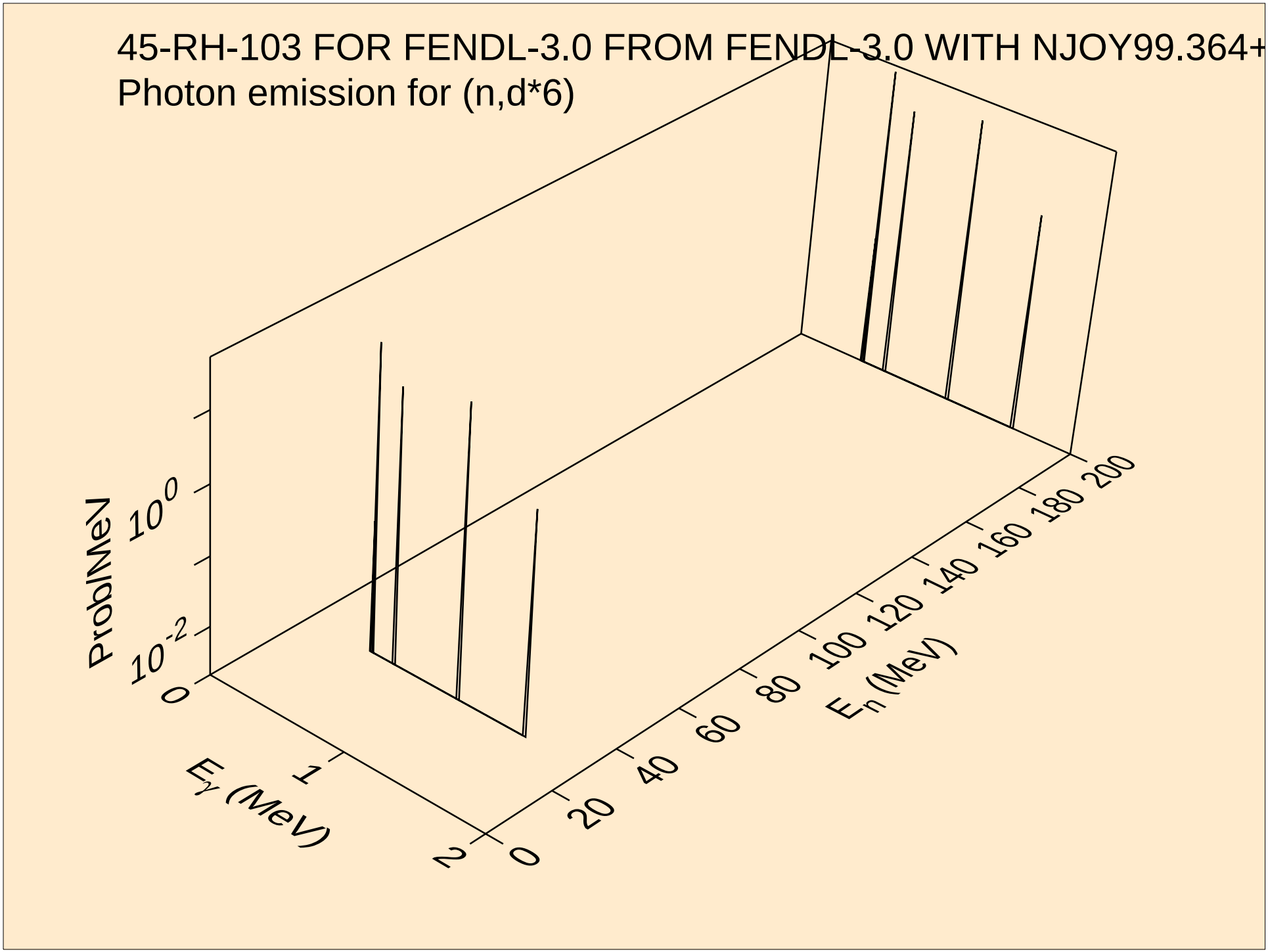

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*1)
Prob/MeV
10^0
10^-2
400
500
600
*10^-3
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

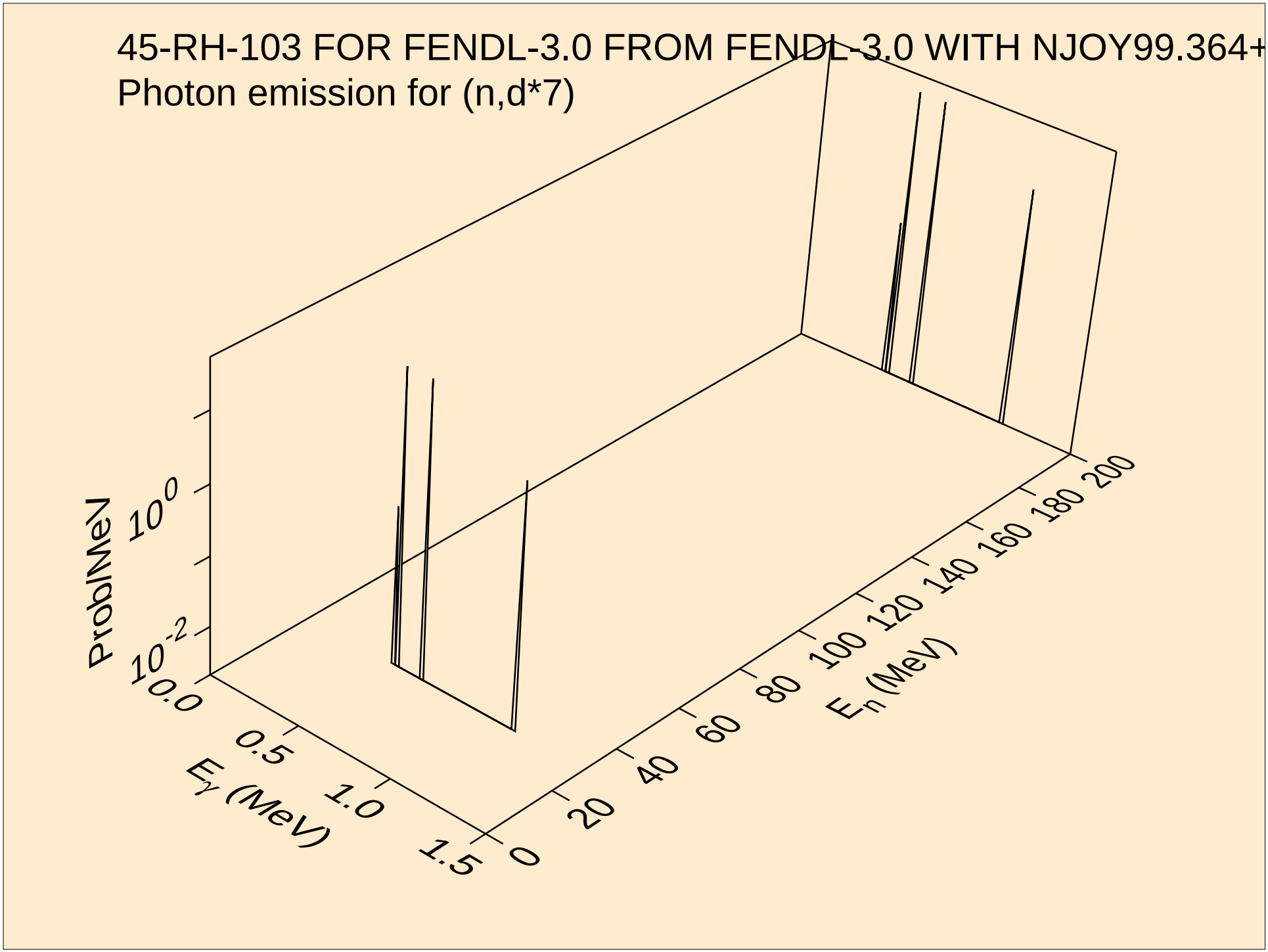

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*2)
Prob/MeV
10^0
10^-2
400
500
600
*10^-3
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

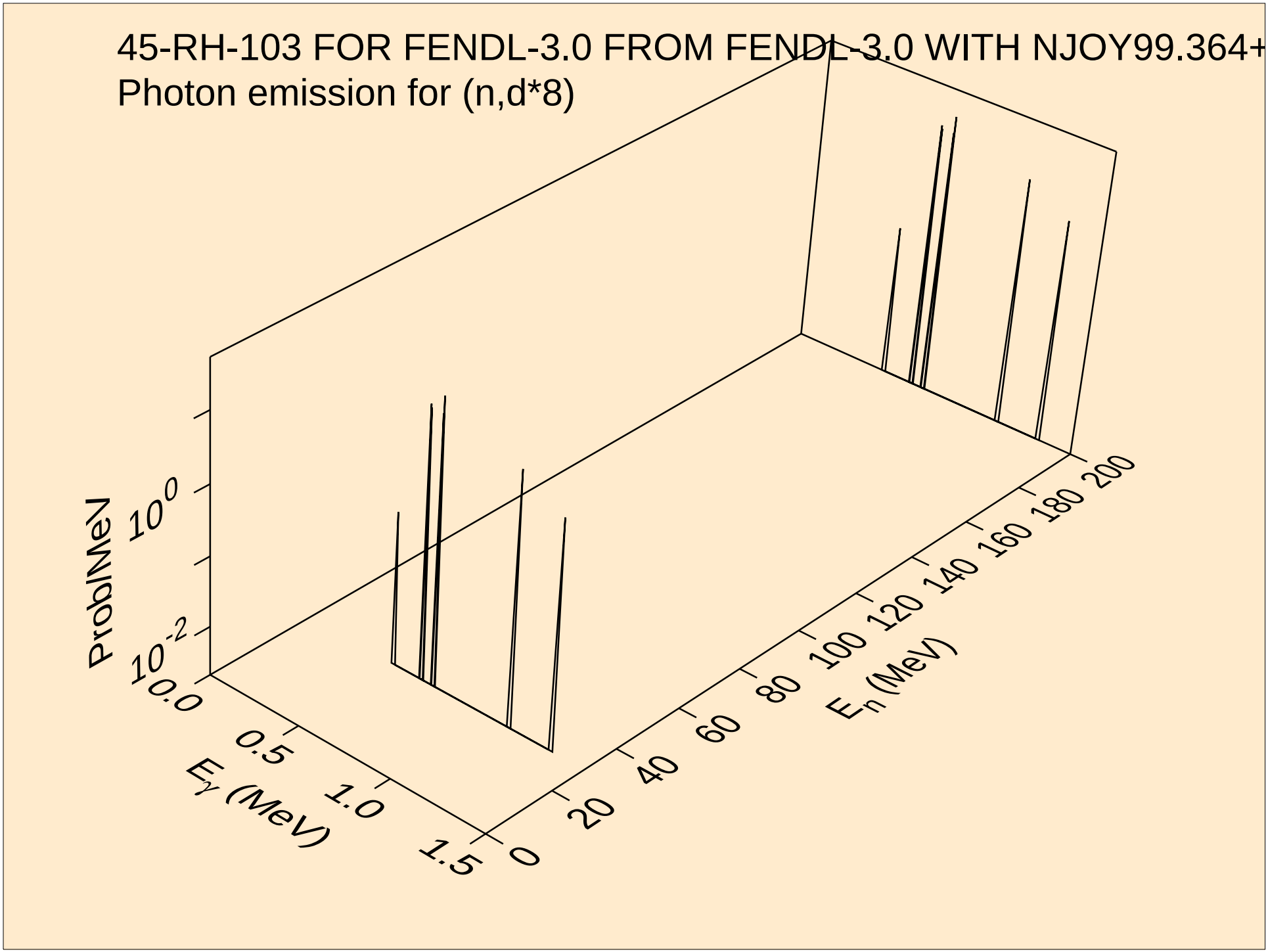

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*3)
Prob/MeV
10^0
10^-2
0.0
0.5
1.0
1.5
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

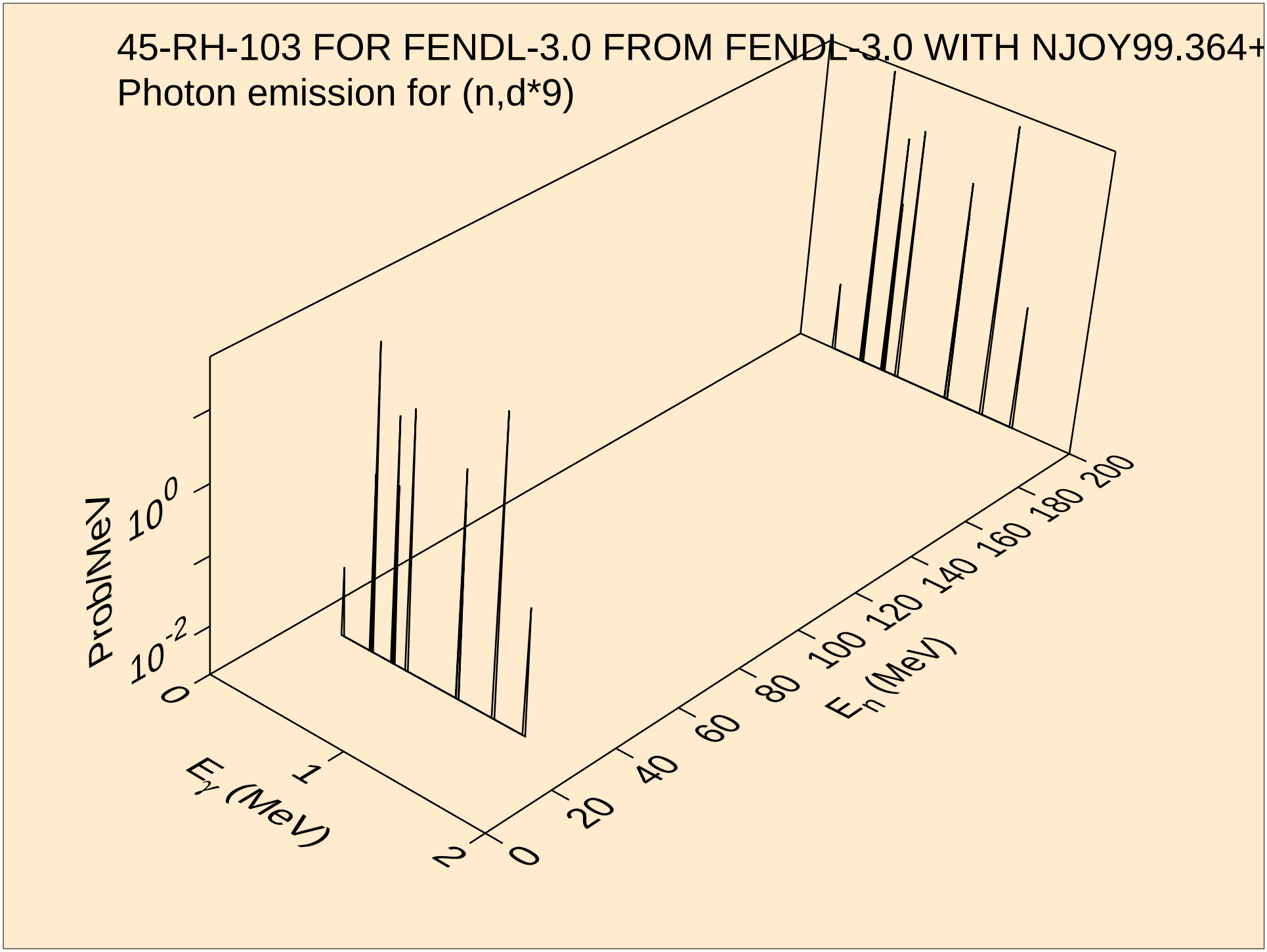

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*4)
Prob/MeV
10^0
10^-2
400
500
600
700
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

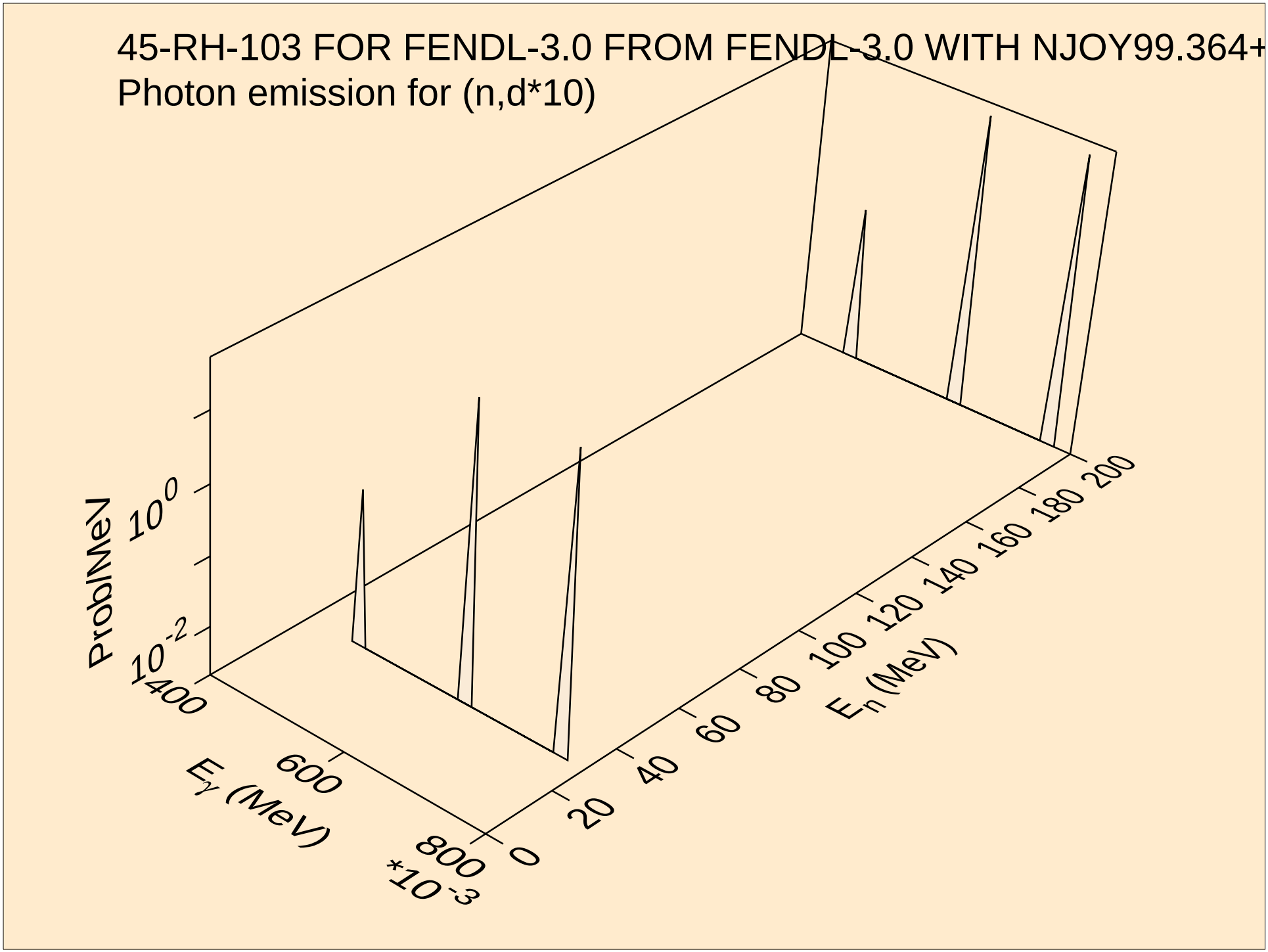

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*5)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
1.5
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

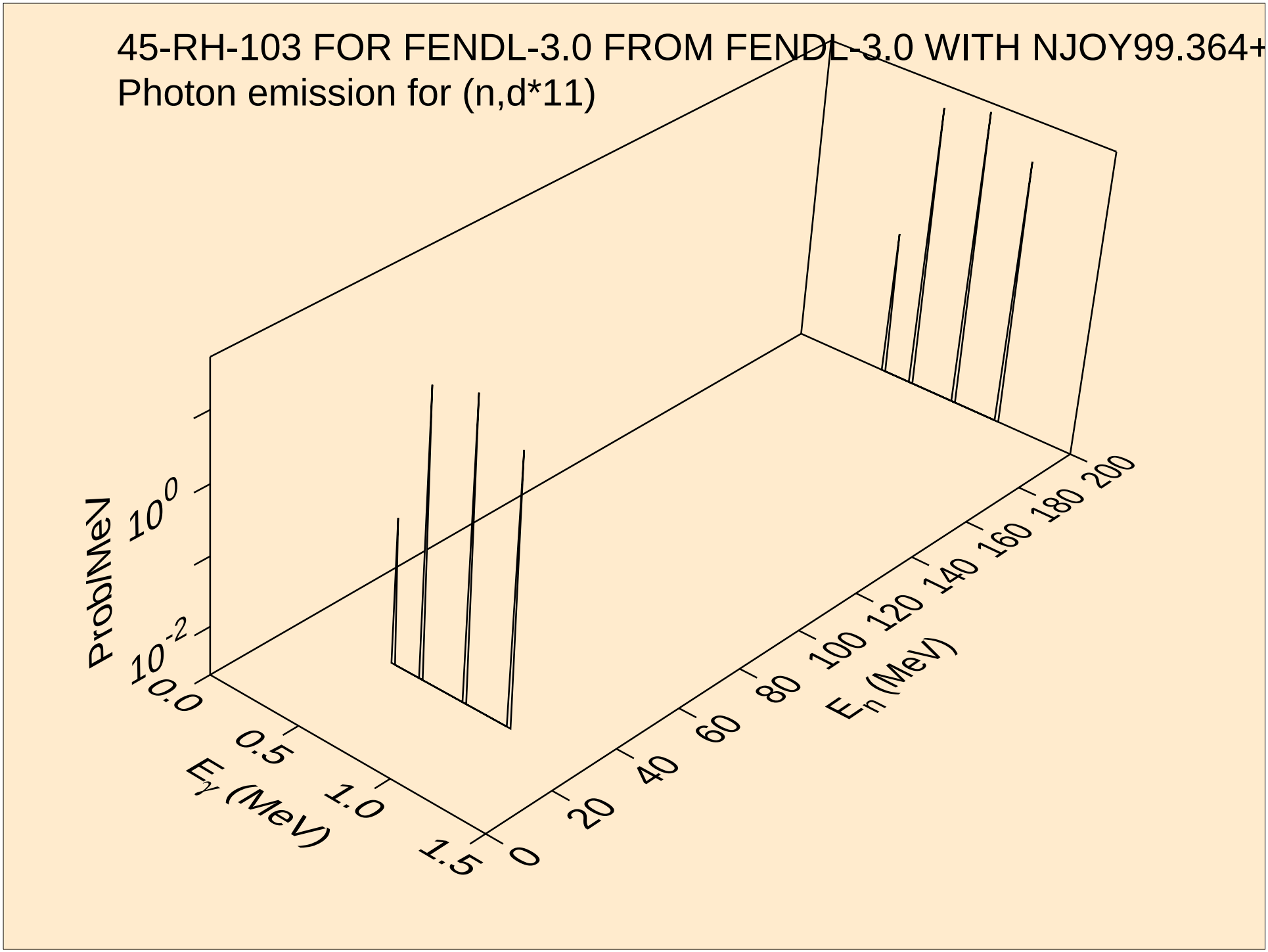

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*6)
Prob/MeV
10^0
10^-2
0
E_γ (MeV)
1
2
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

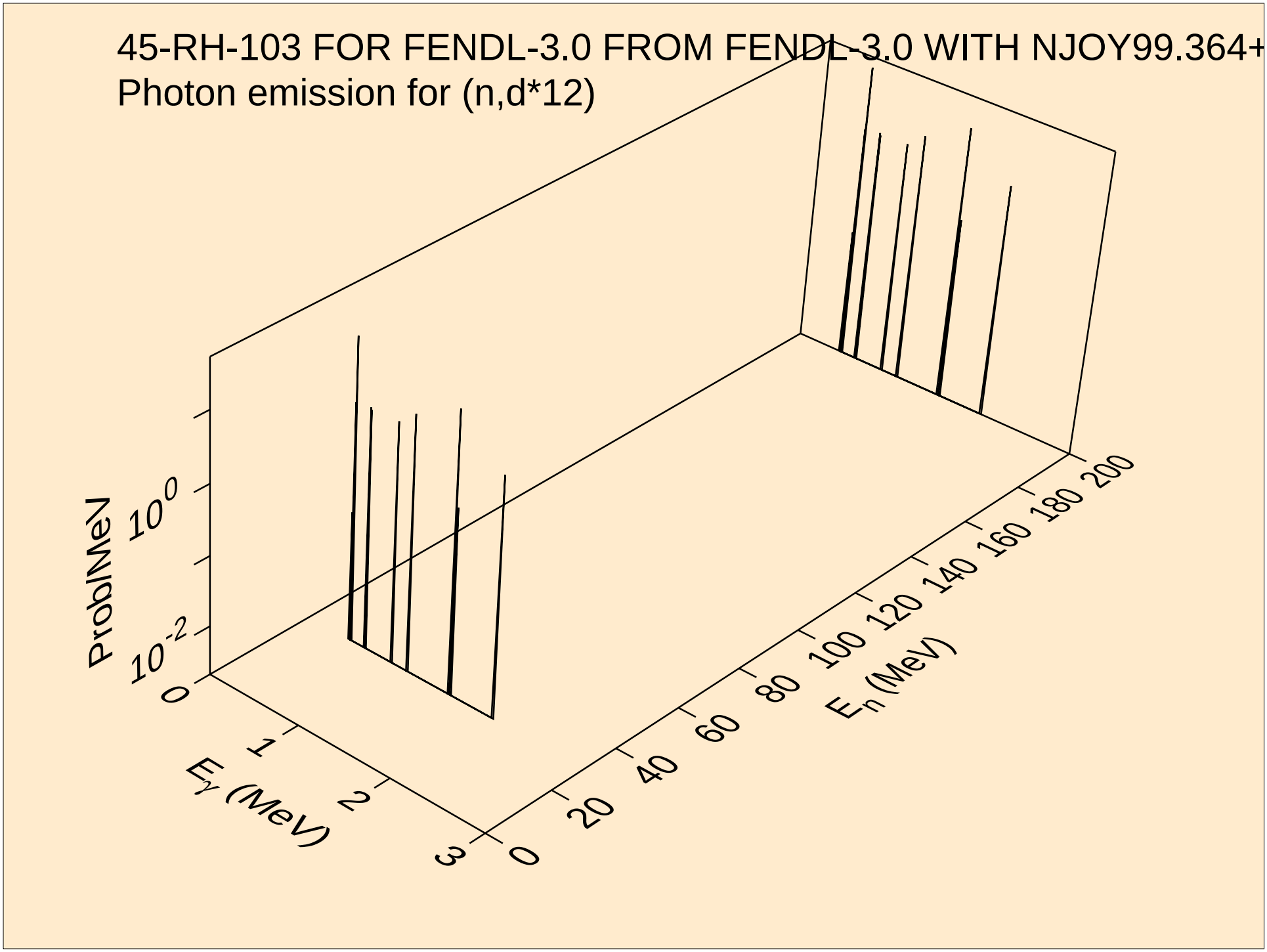

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*7)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
1.5
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

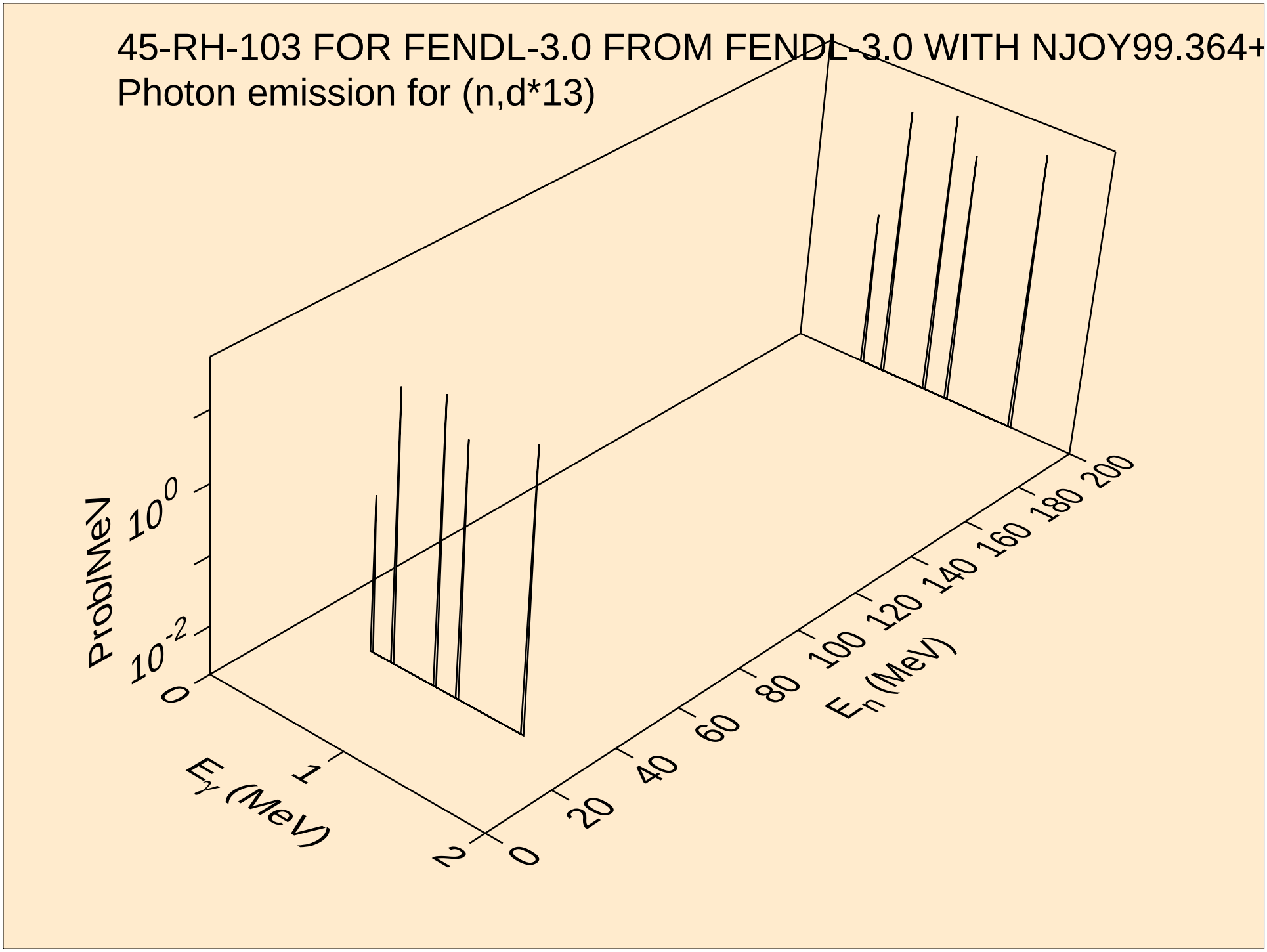

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*8)
Prob/MeV
10^0
10^-2
0.0
0.5
1.0
1.5
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

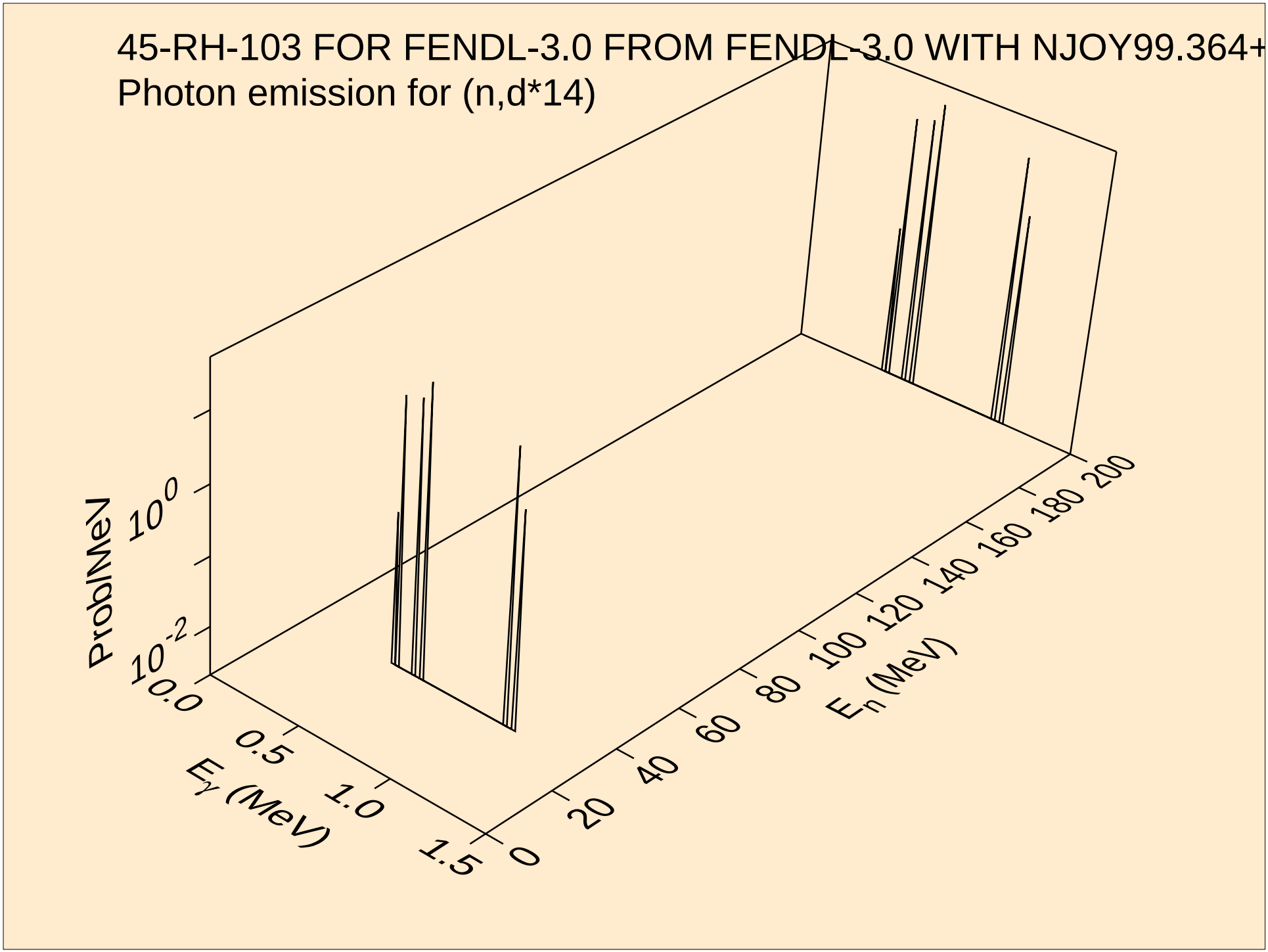

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*9)
Prob/MeV
10^0
10^-2
0
1
2
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

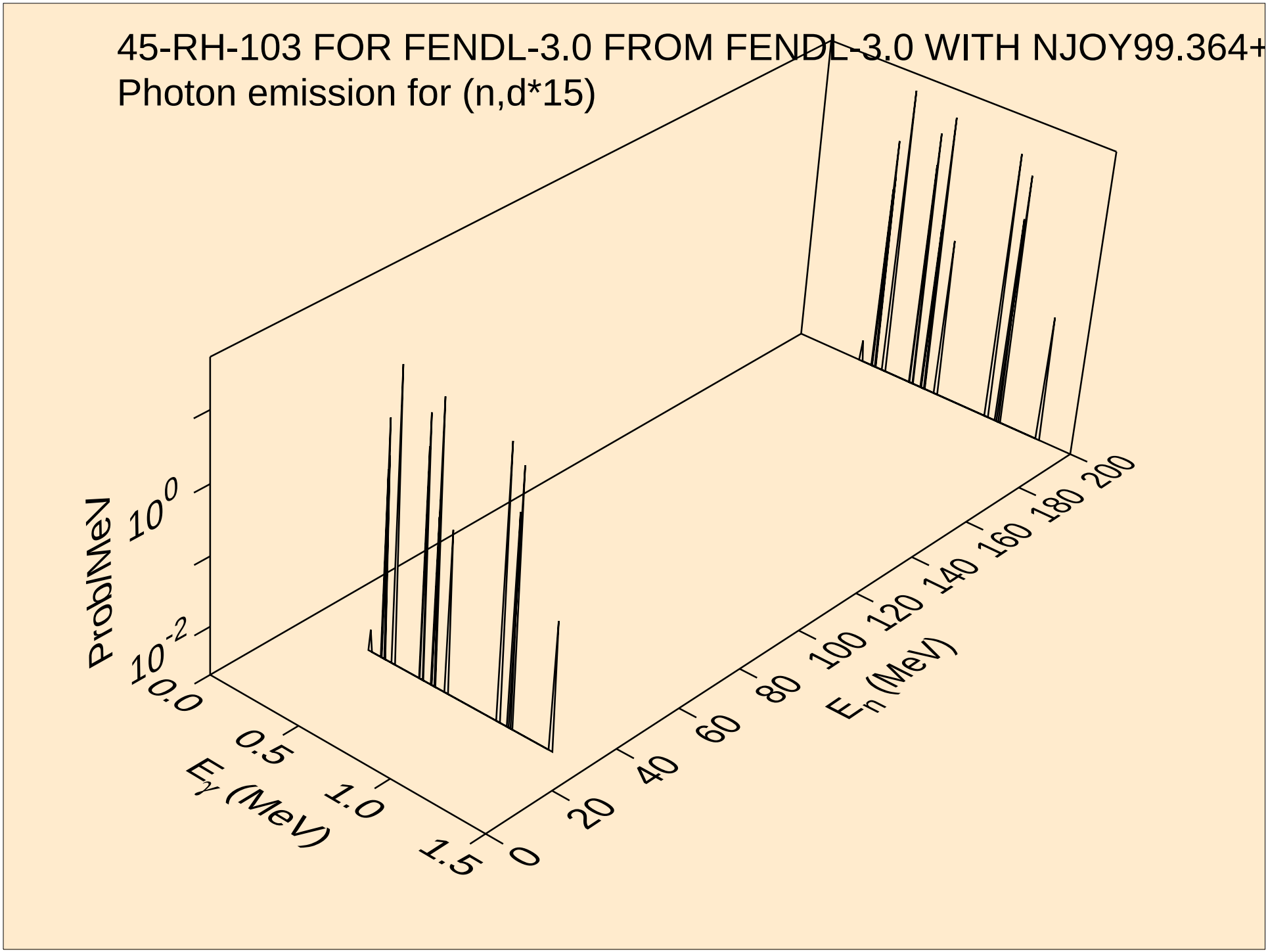

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*10)
Prob/MeV
10^0
10^-2
1400
600
800
*10^-3
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

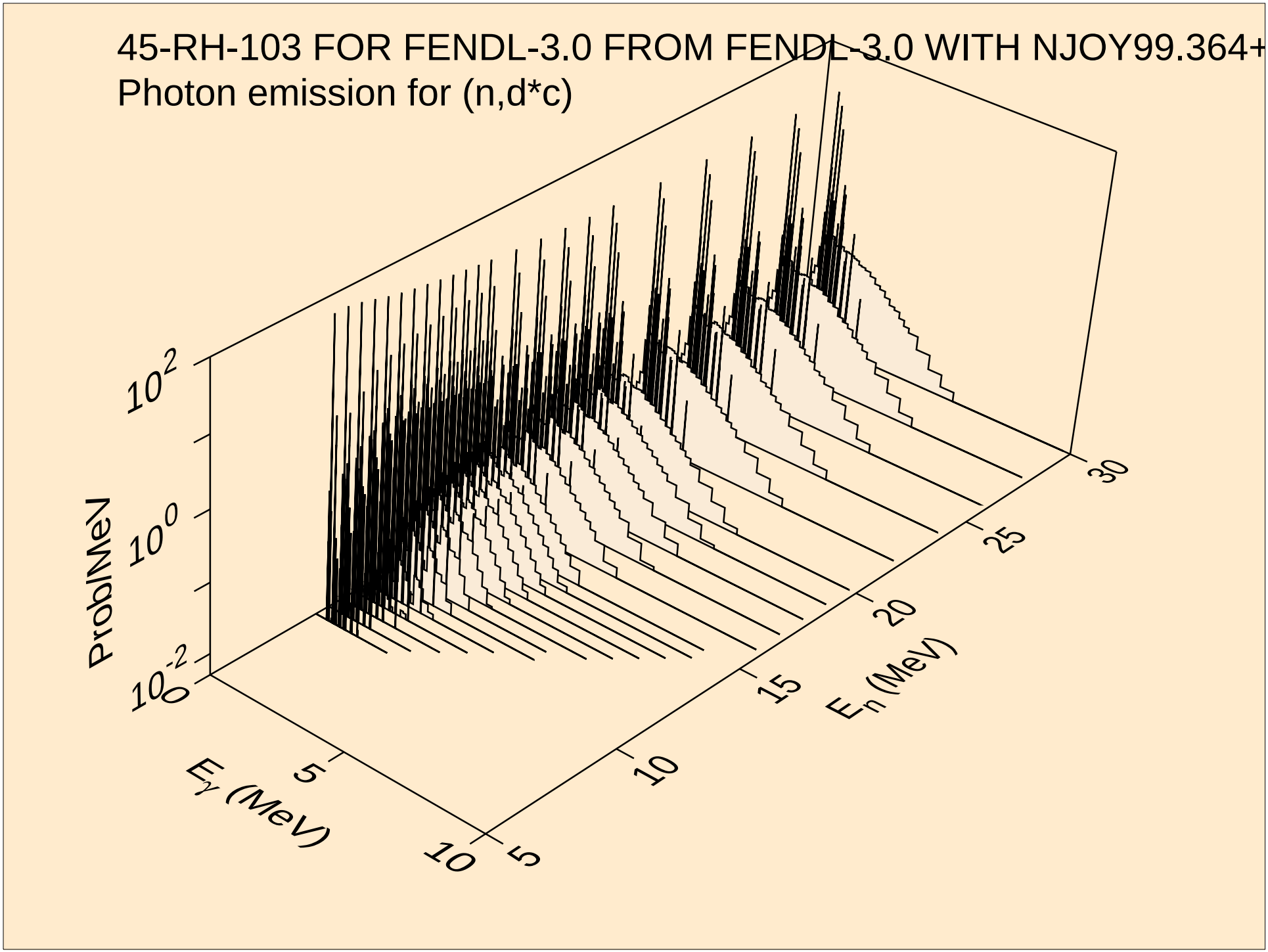

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*11)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
1.5
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

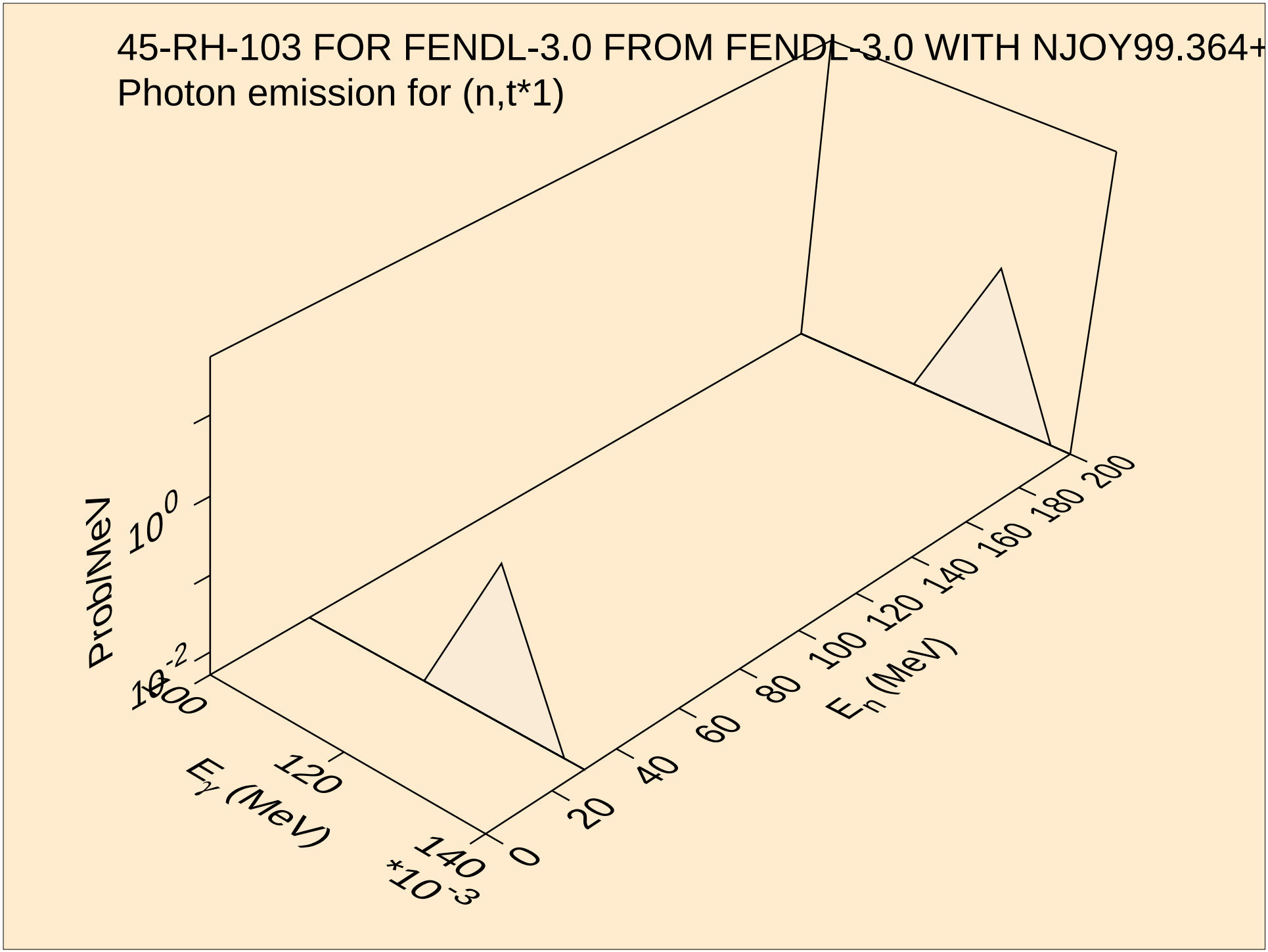

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*12)
Prob/MeV
10^{0}
10^{-2}
0
1
2
3
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

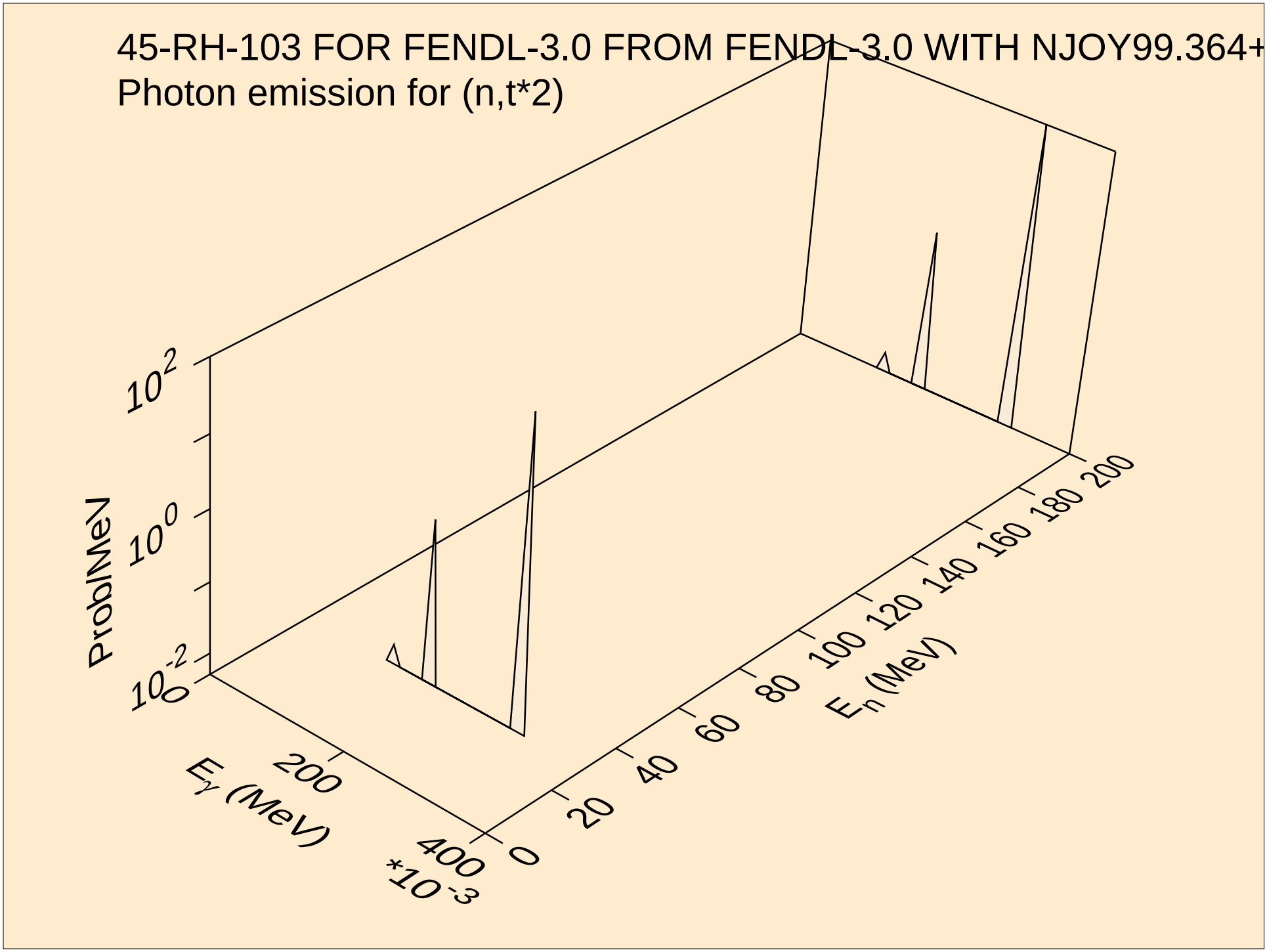

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*13)
Prob/MeV
10^0
10^-2
0
1
2
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

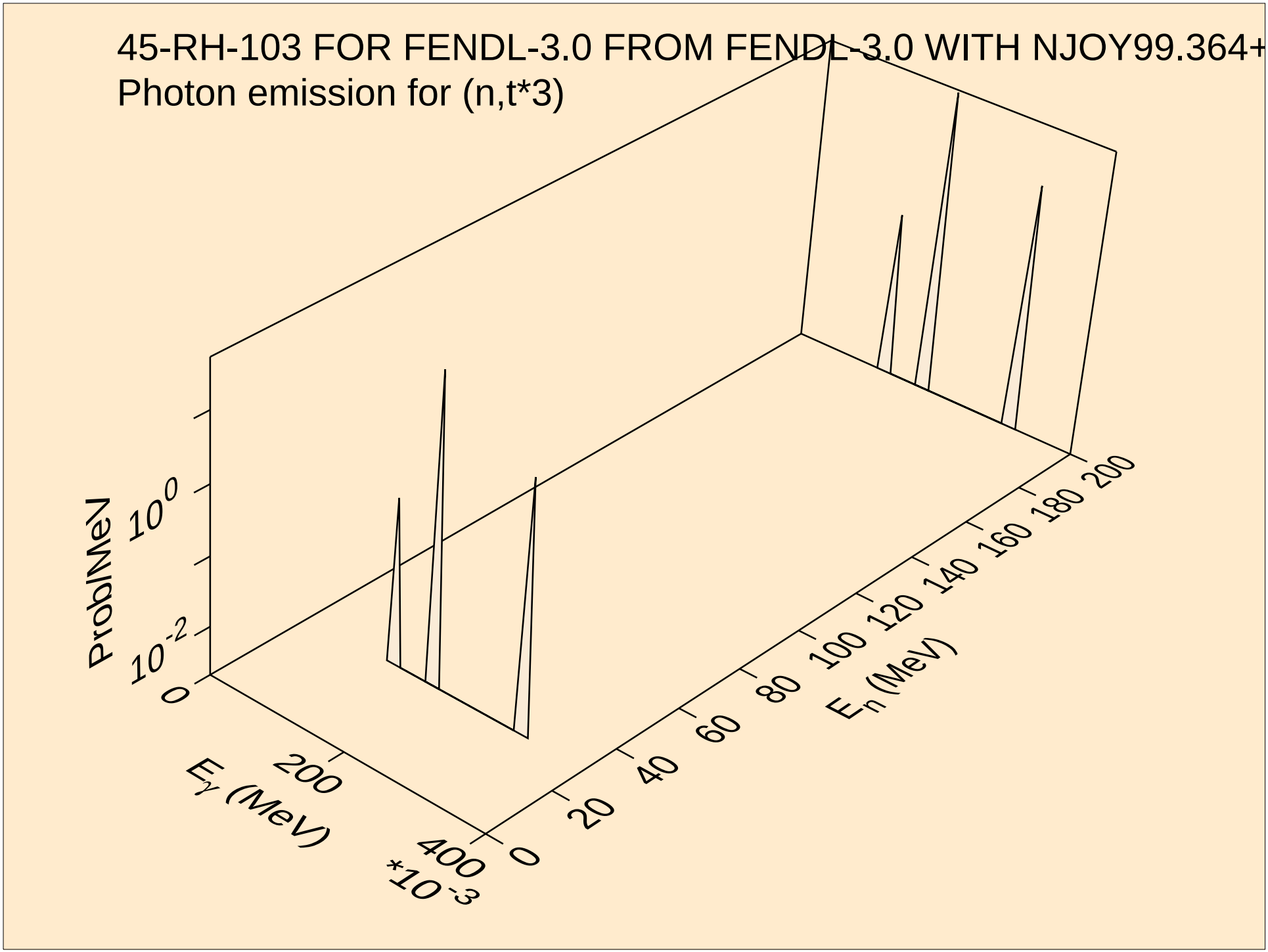

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*14)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
1.5
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

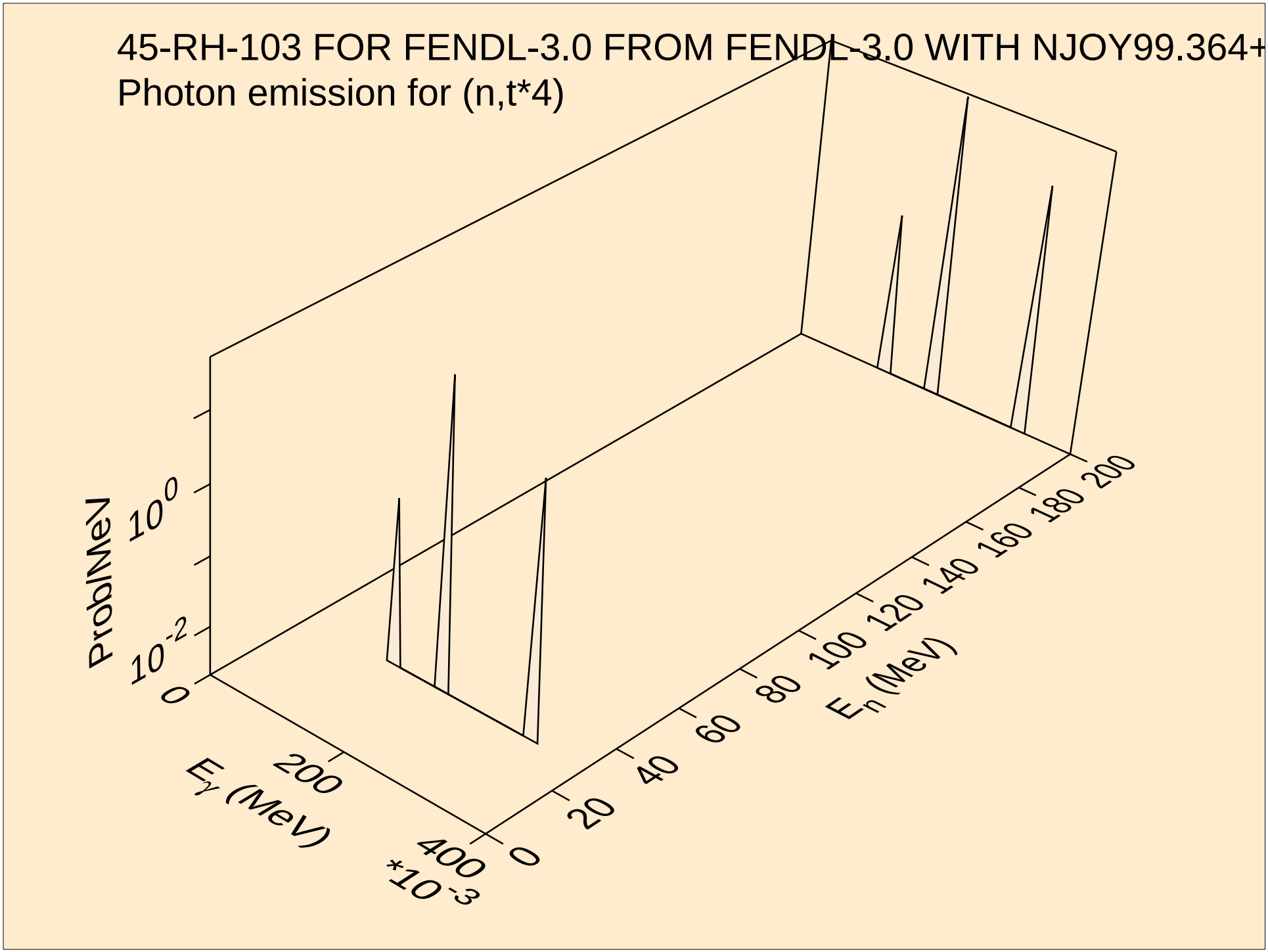

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*15)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
1.5
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

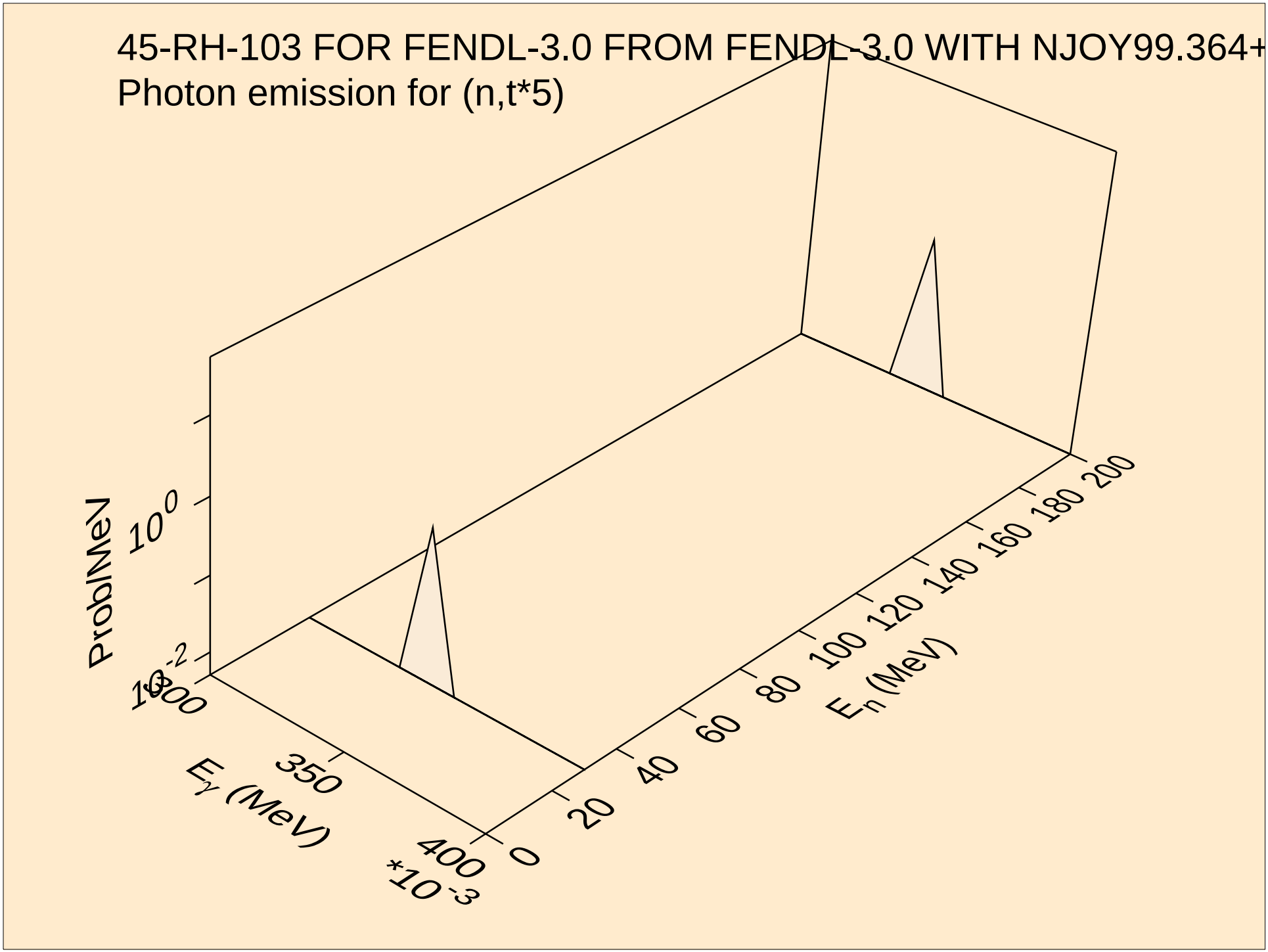

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,d*c)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

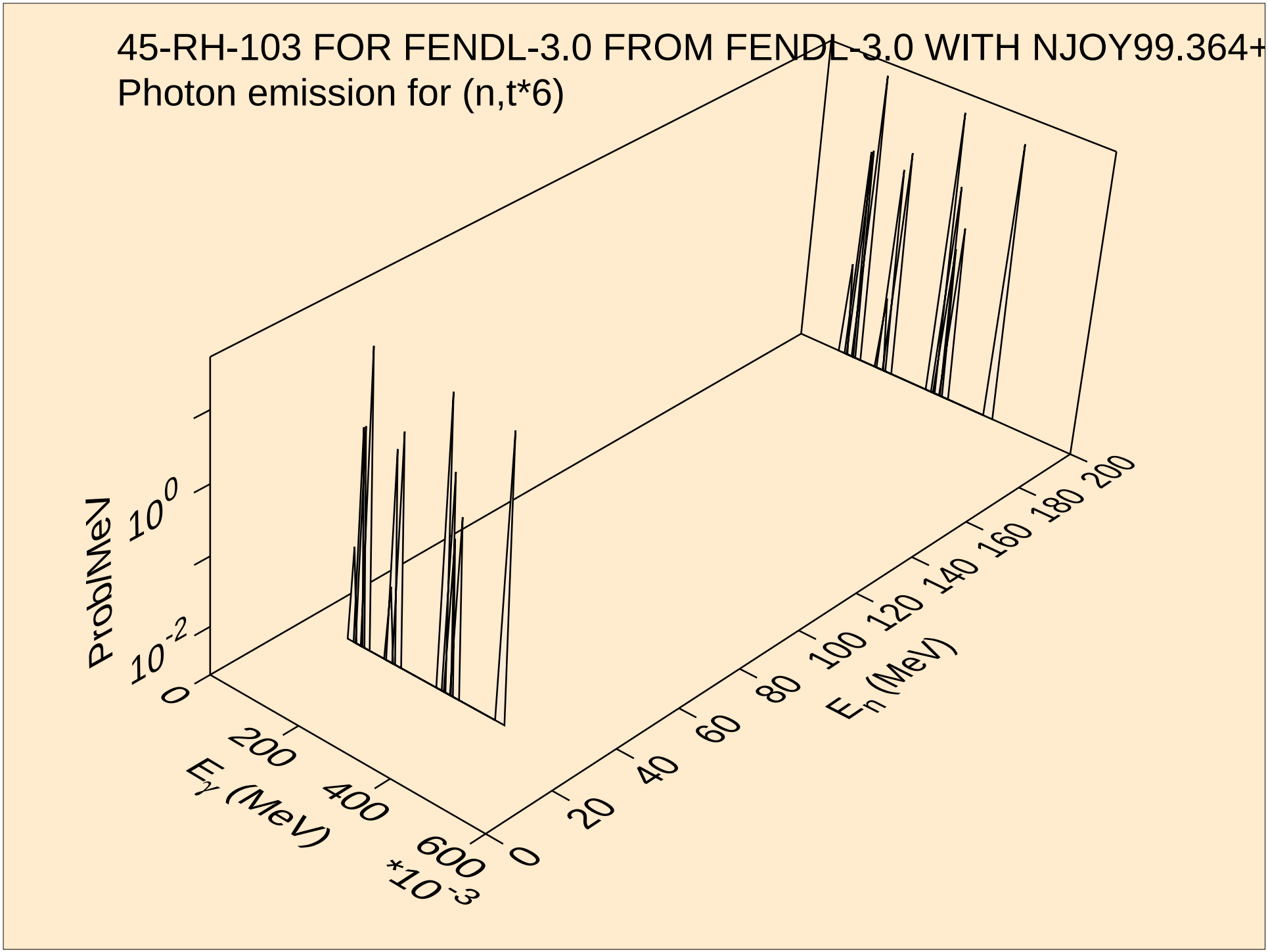

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*1)
Prob/MeV
10^0
10^-2
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)
0
120
140
*10^-3
E_γ (MeV)

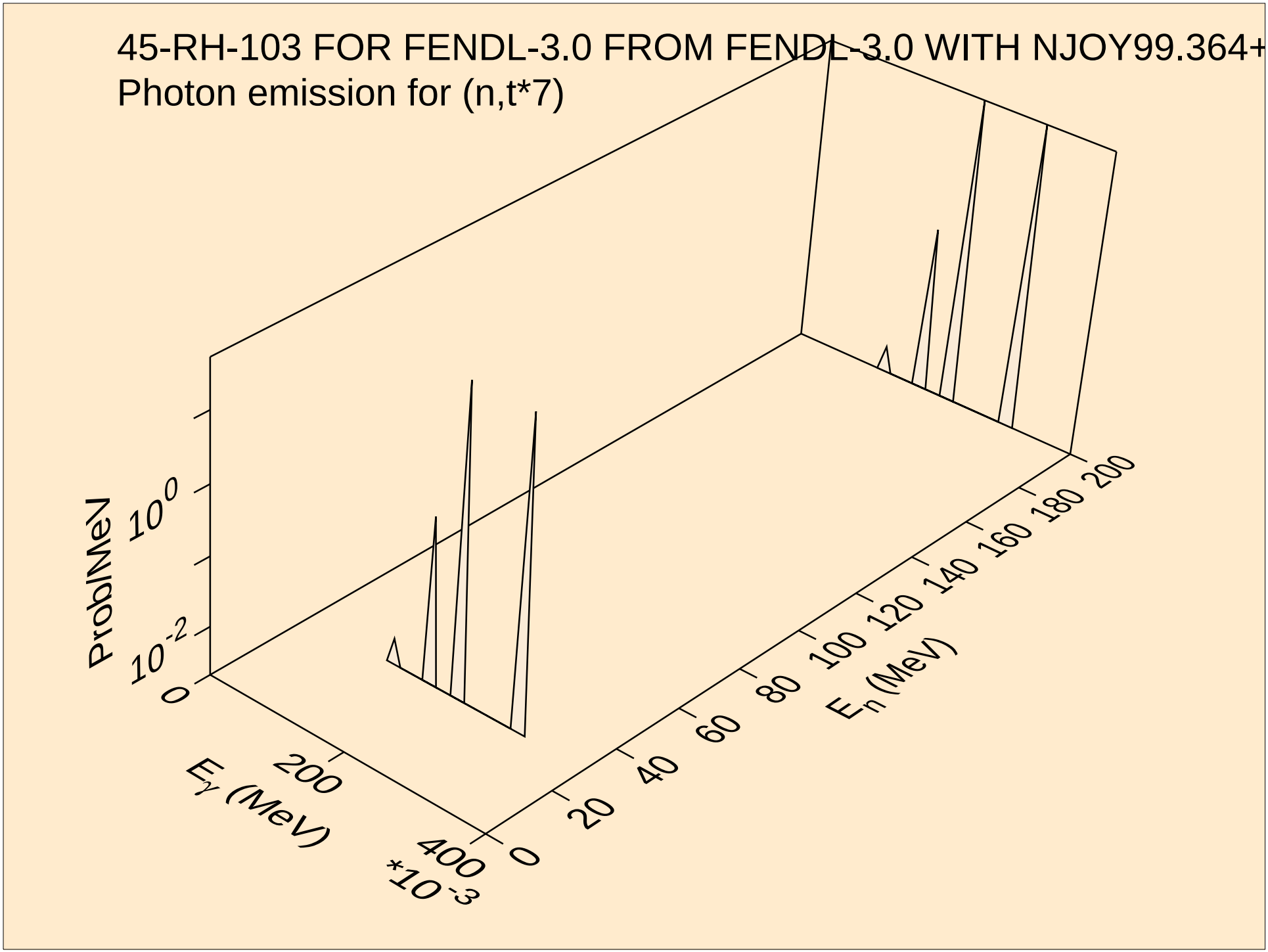

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*2)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
200
400
*10 -3
E_n (MeV)
0
20
40
60
80
100
120
140
160
180
200

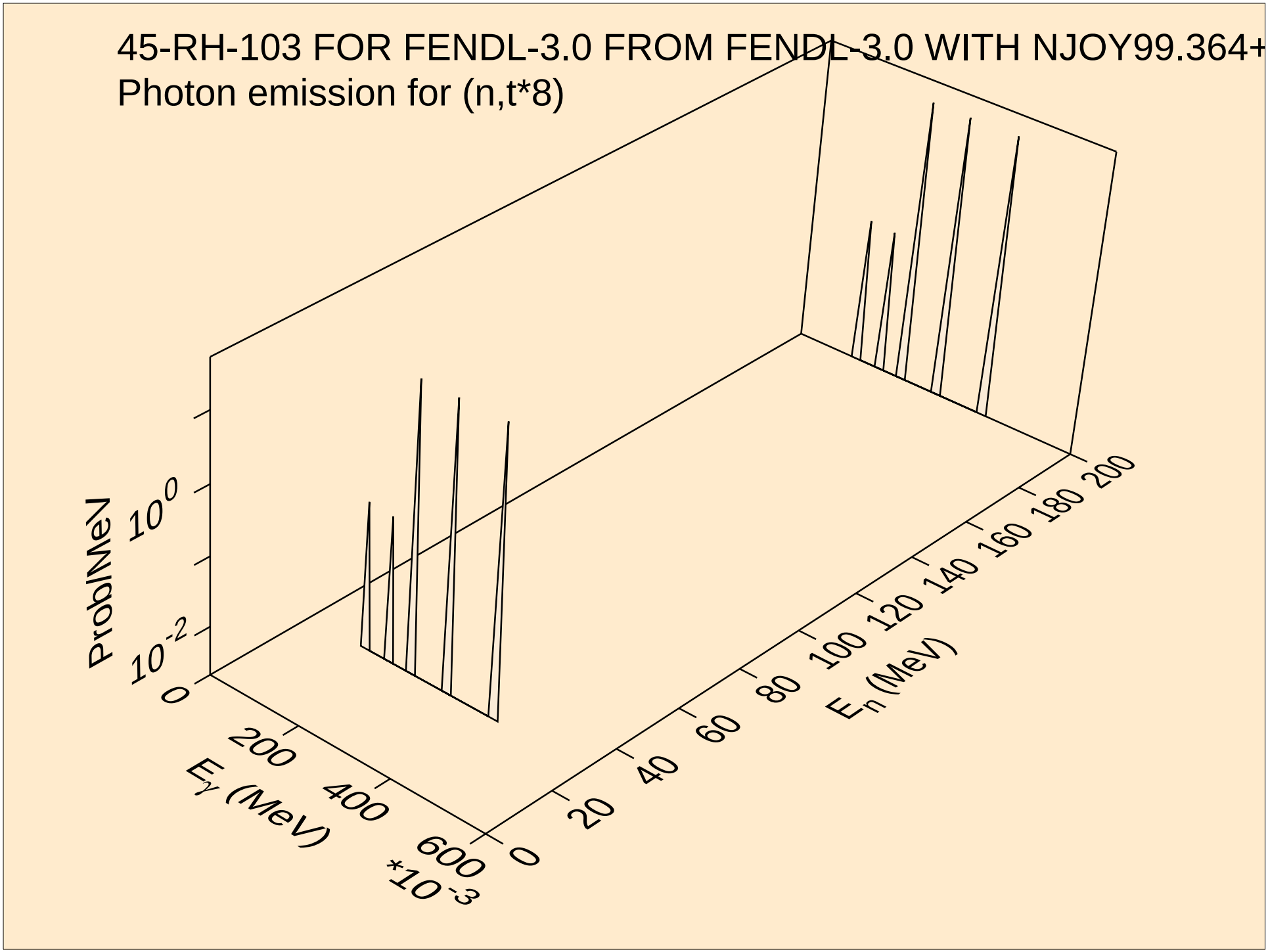

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*3)
Prob/MeV
10^0
10^-2
0
200
400
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

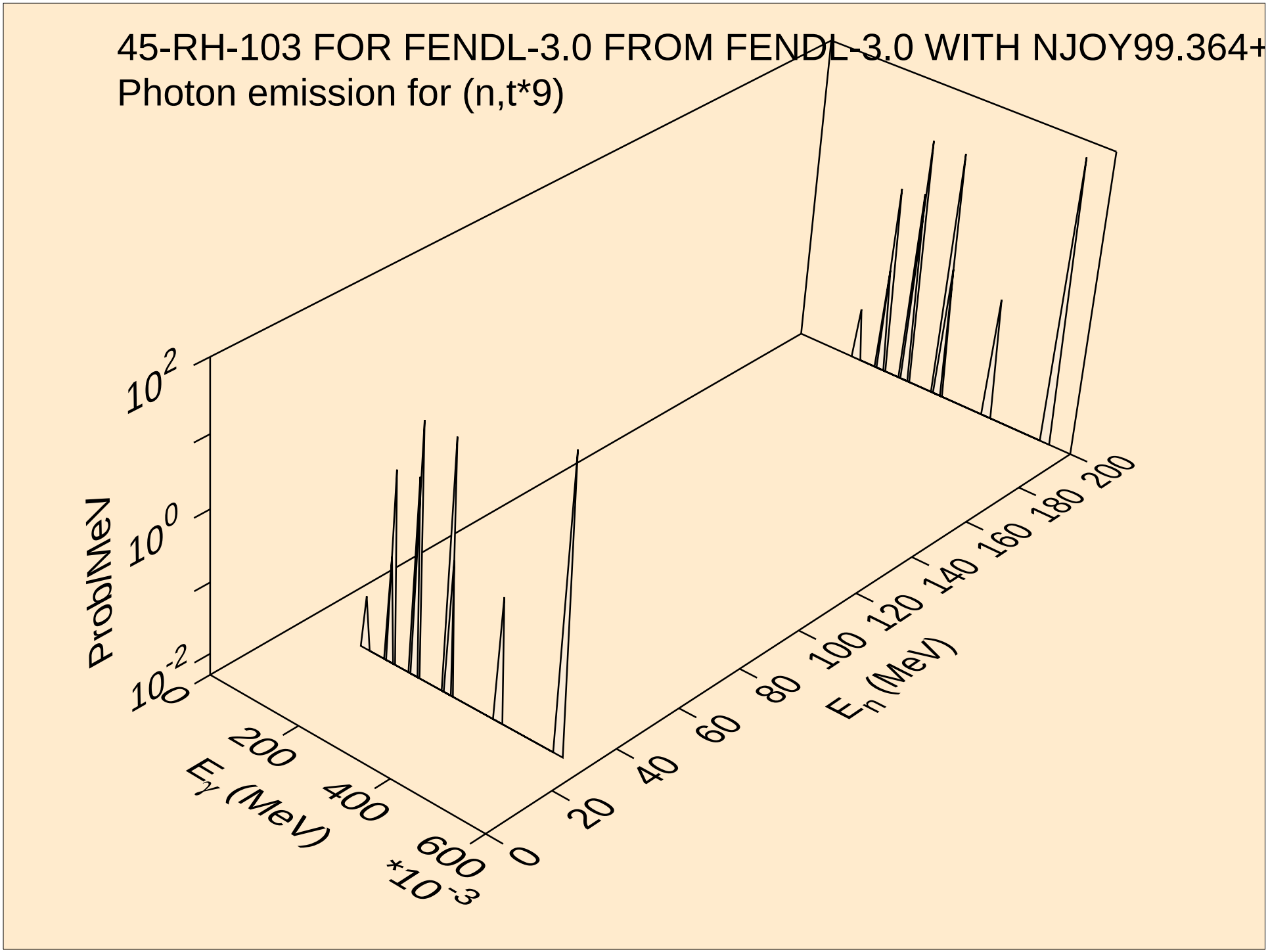

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*4)
Prob/MeV
10^0
10^-2
0
200
400
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

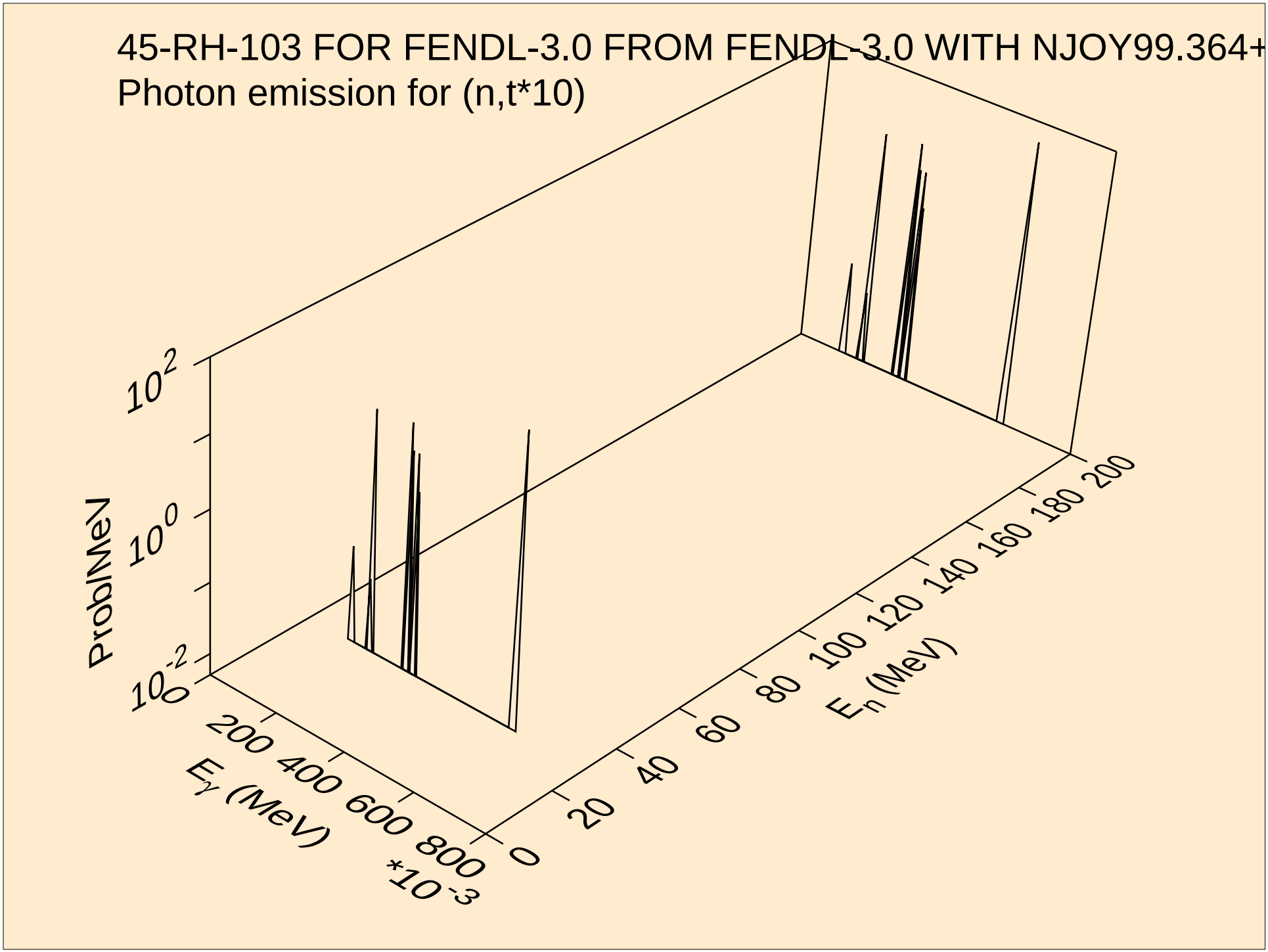

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*5)
Prob/MeV
10^{0}
10^{-2}
300
350
400
E_γ (MeV)
*10 -3
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

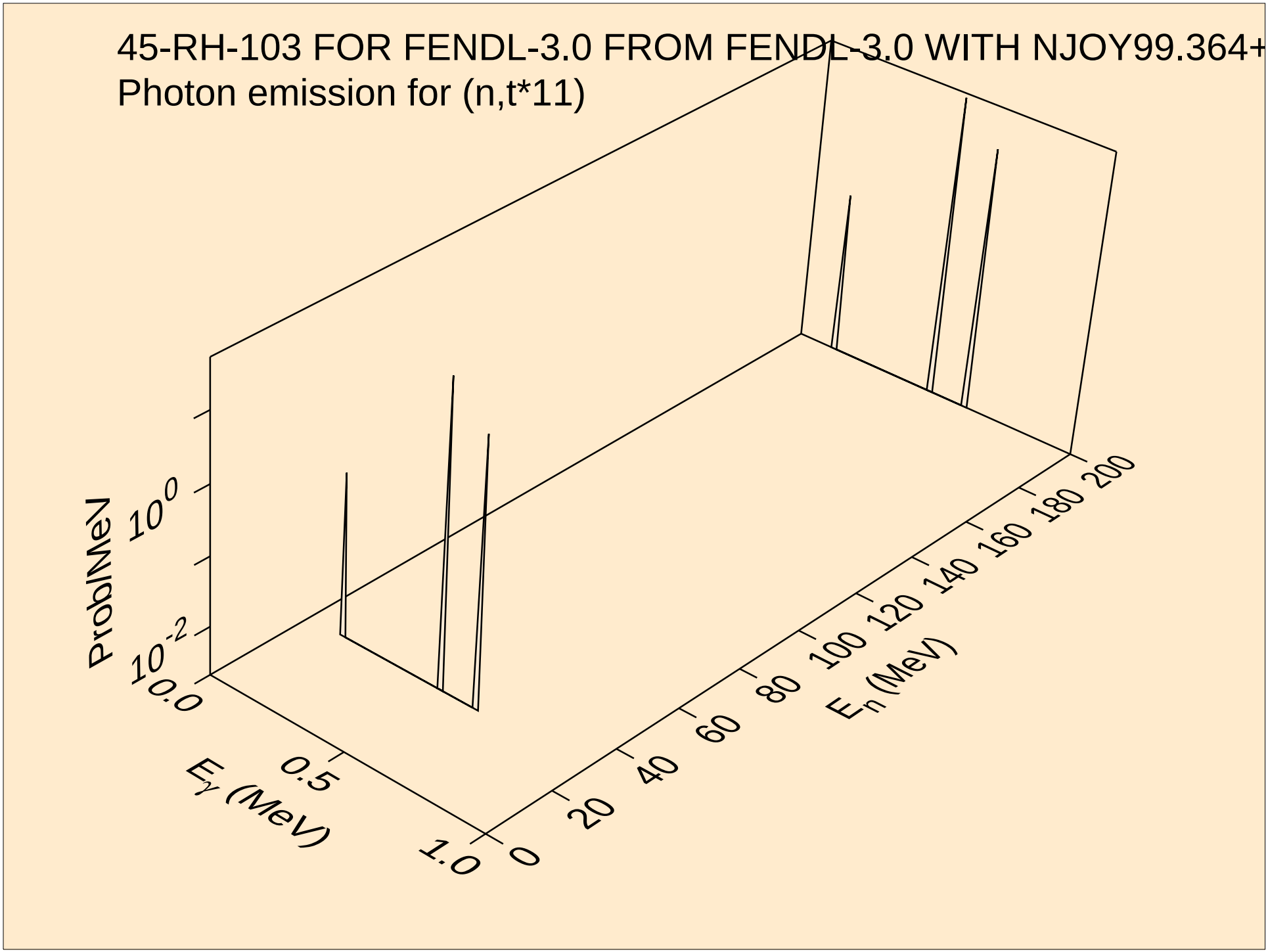

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*6)
Prob/MeV
10^0
10^-2
0
200
400
600
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

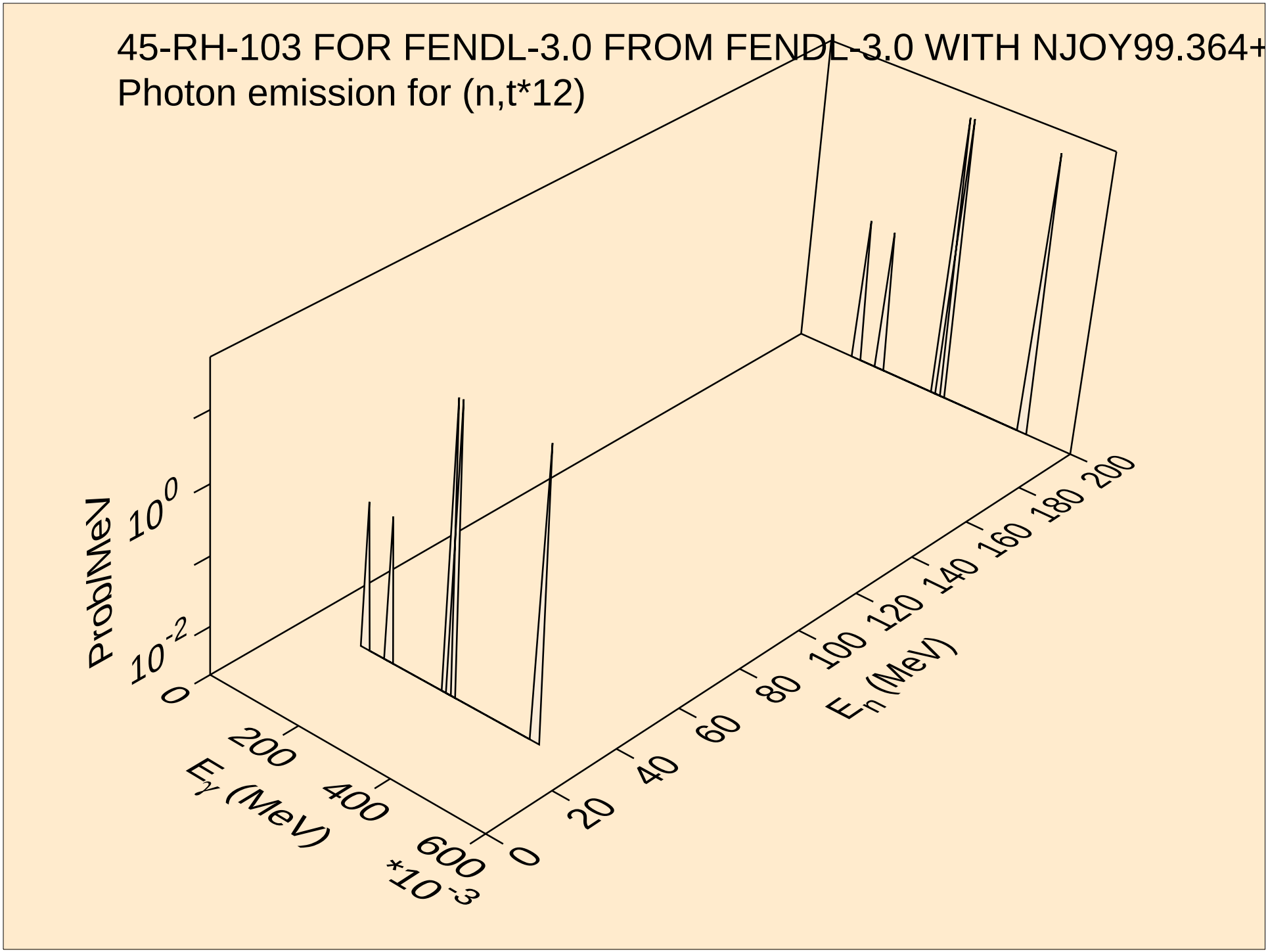

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*7)
Prob/MeV
10^0
10^-2
0
200
400
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

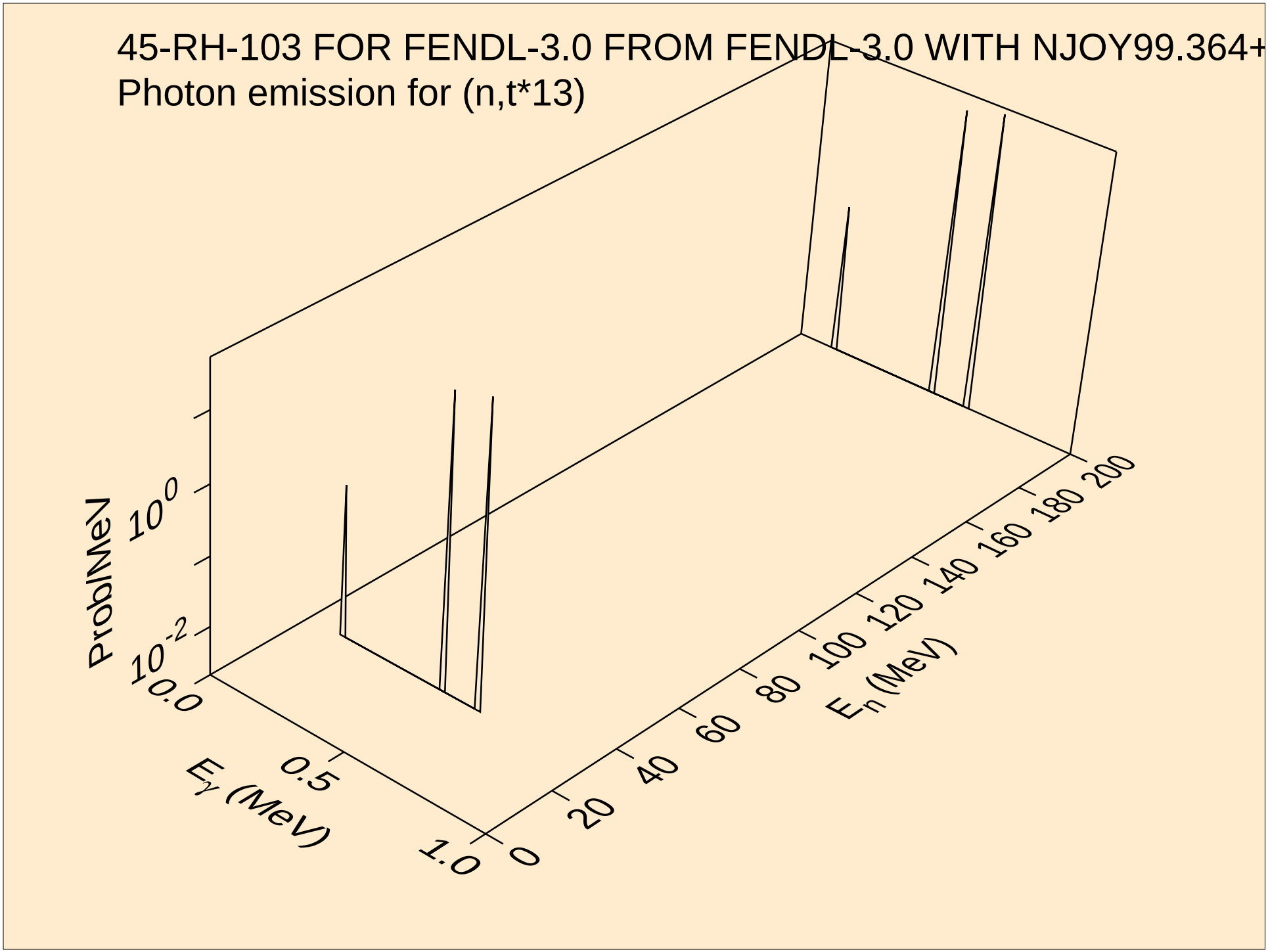

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*8)
Prob/MeV
10^0
10^-2
0
200
400
600
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

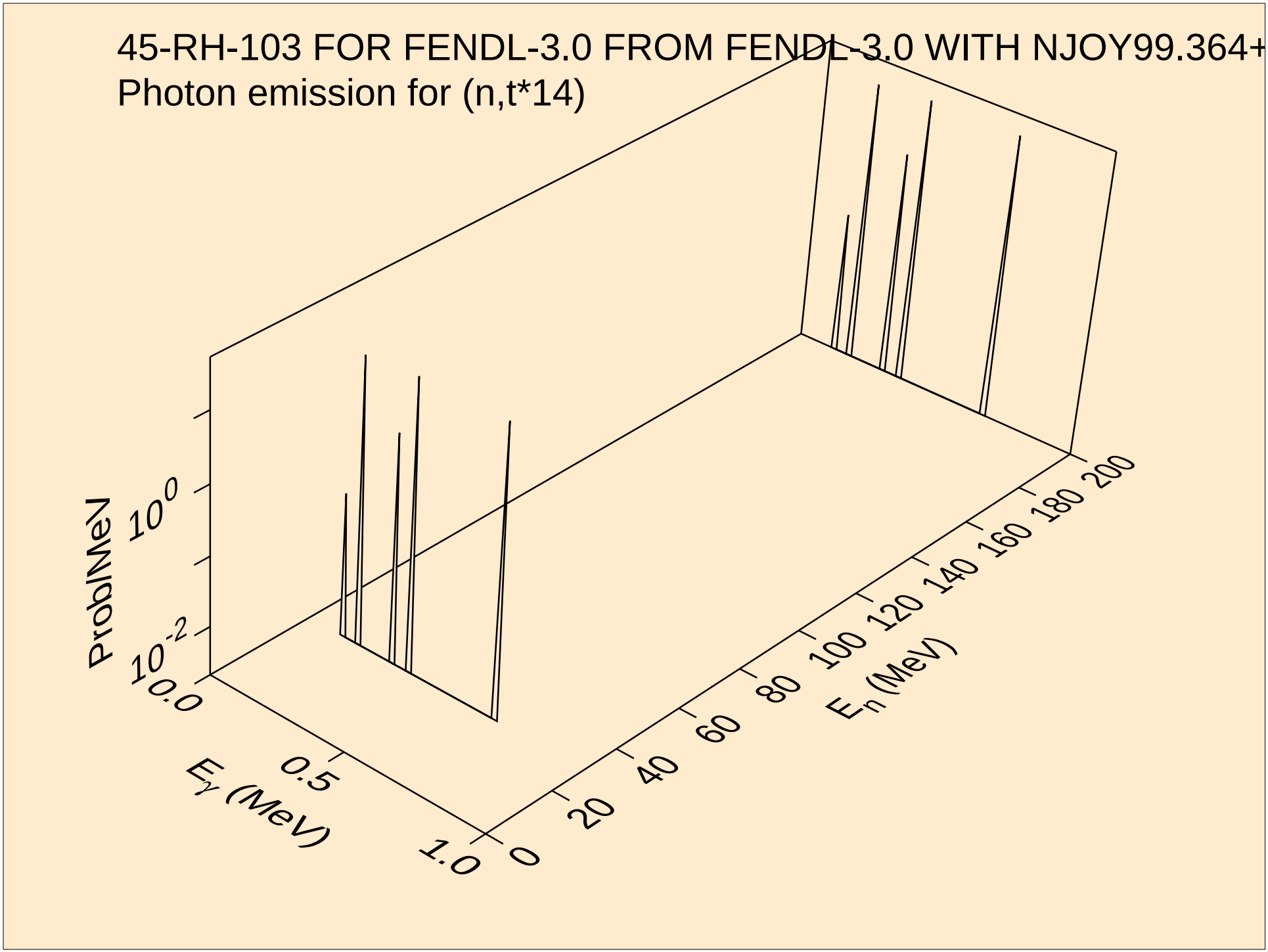

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*9)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
200
400
600
E_γ (MeV)
*10 -3
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

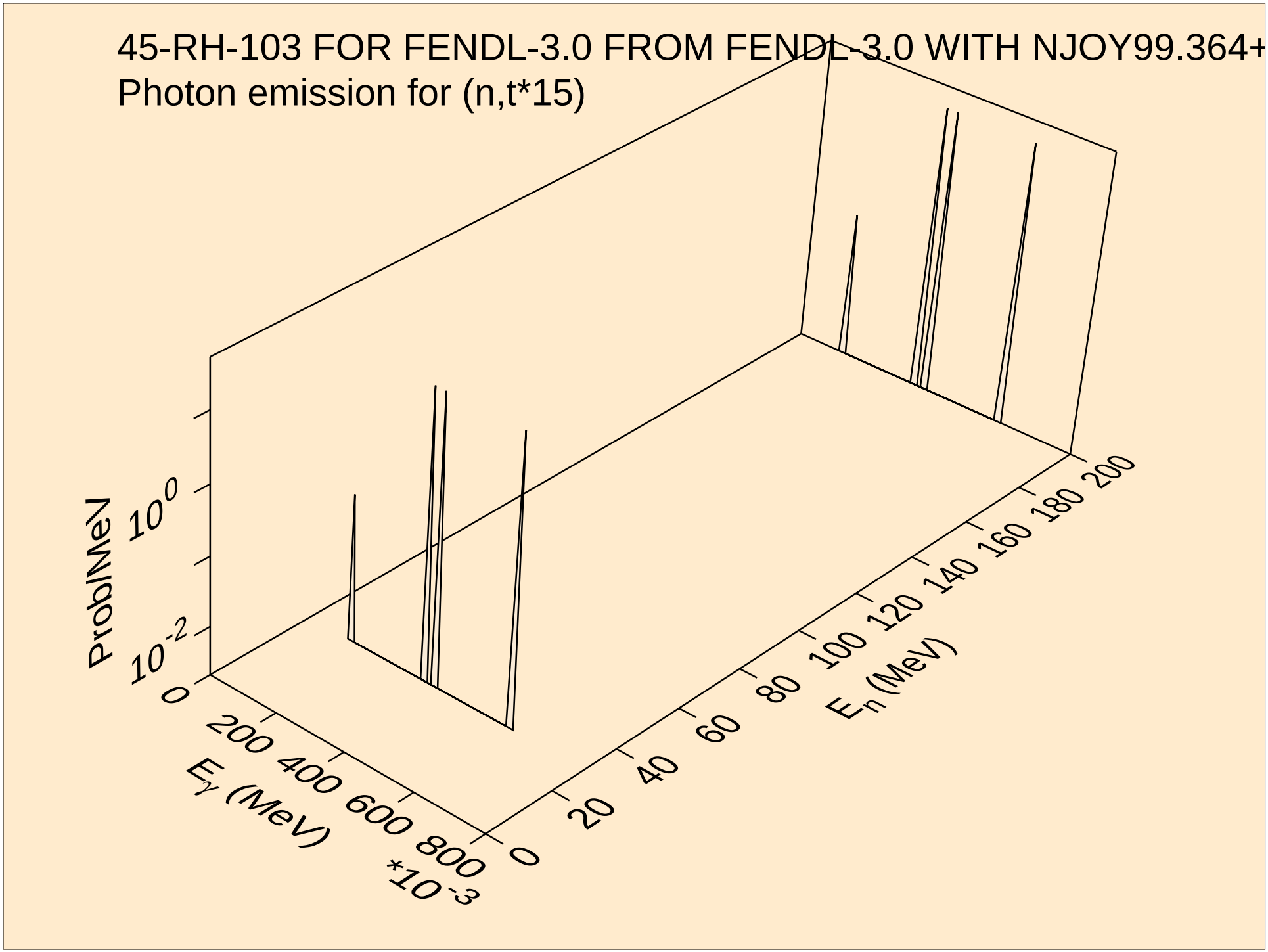

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*10)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
200
400
600
800
E_γ (MeV)
*10 -3
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

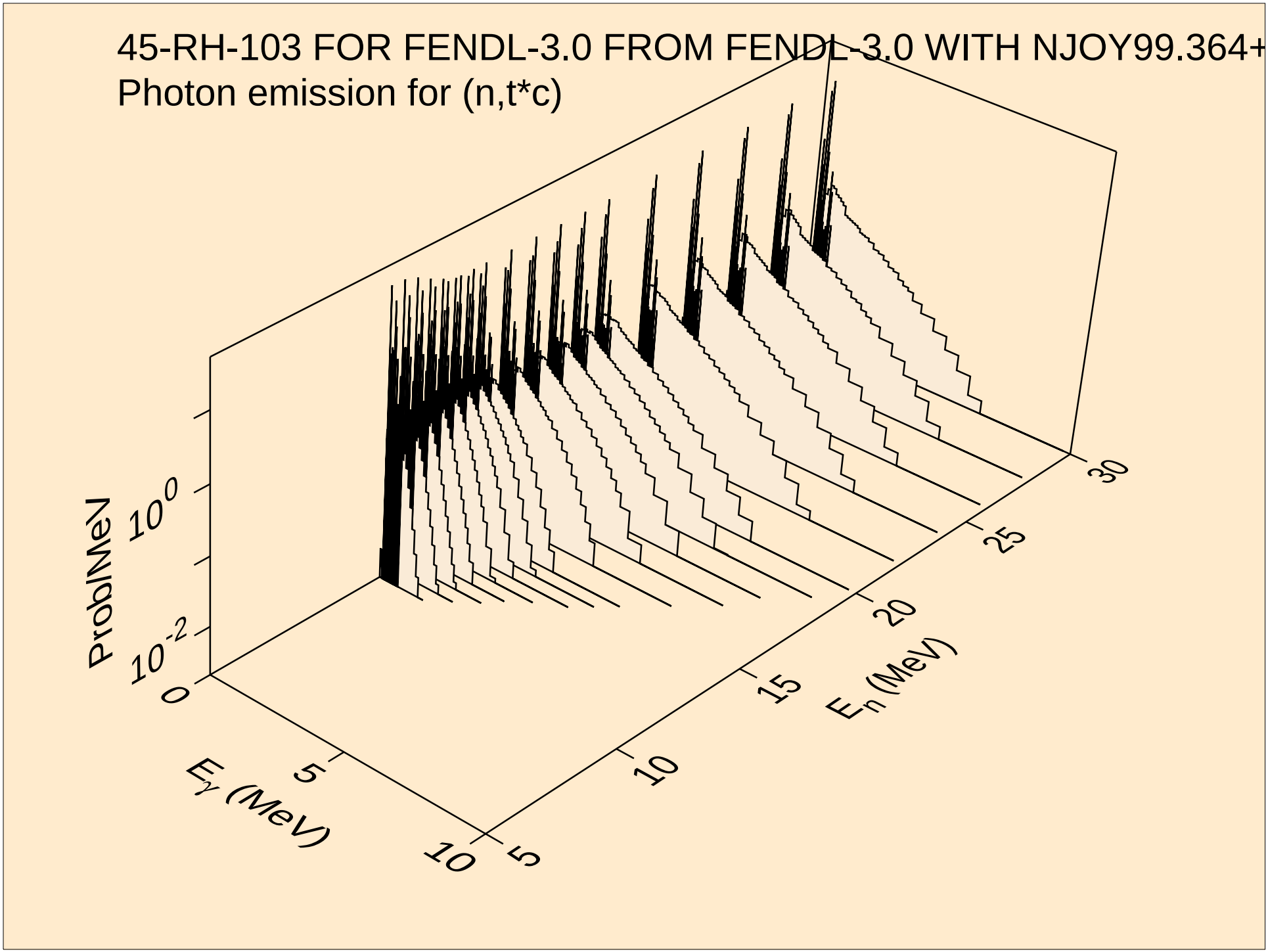

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*11)
Prob/MeV
10^0
10^-2
0.0
0.5
1.0
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

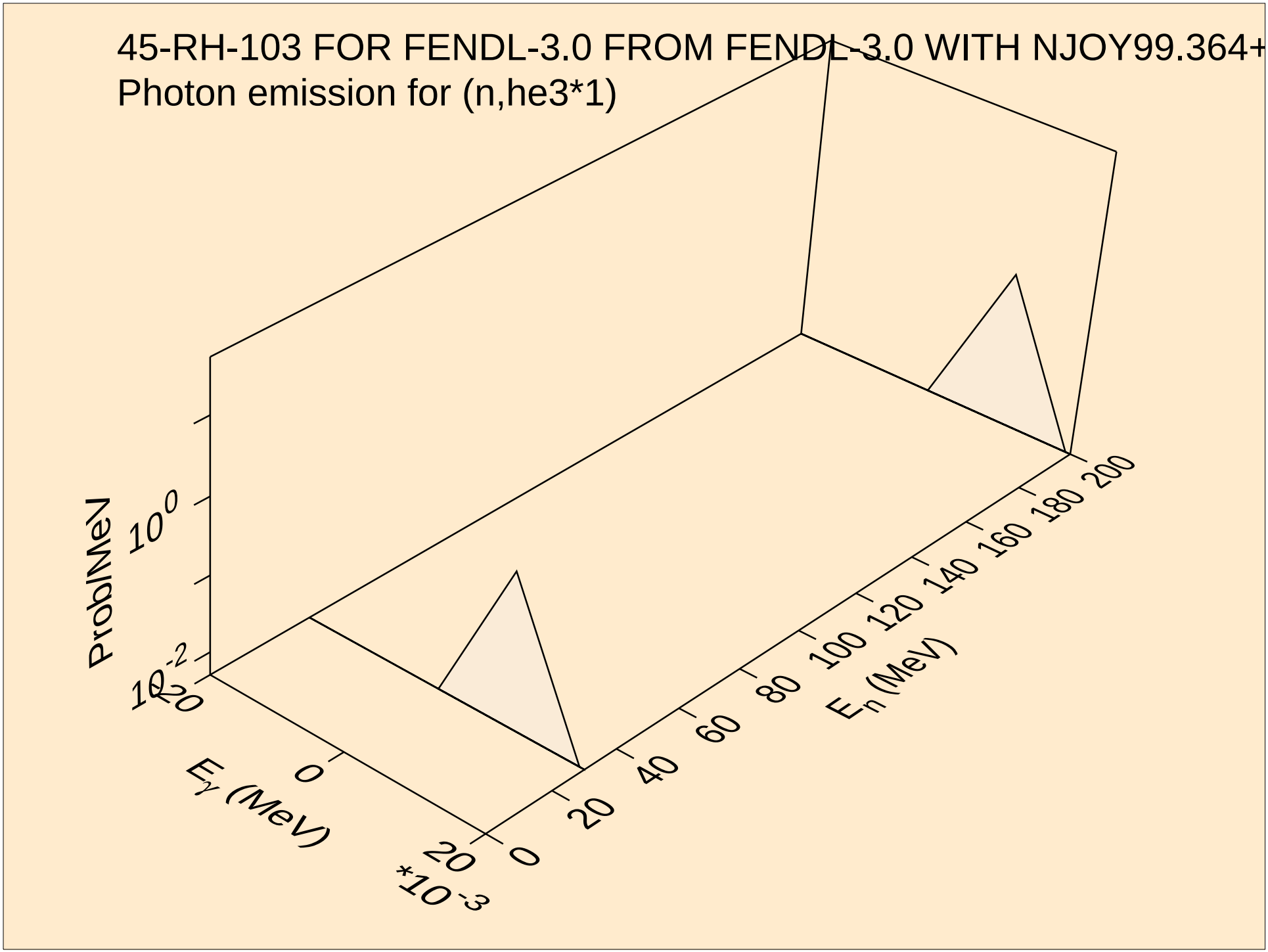

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*12)
Prob/MeV
10^0
10^-2
0
200
400
600
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

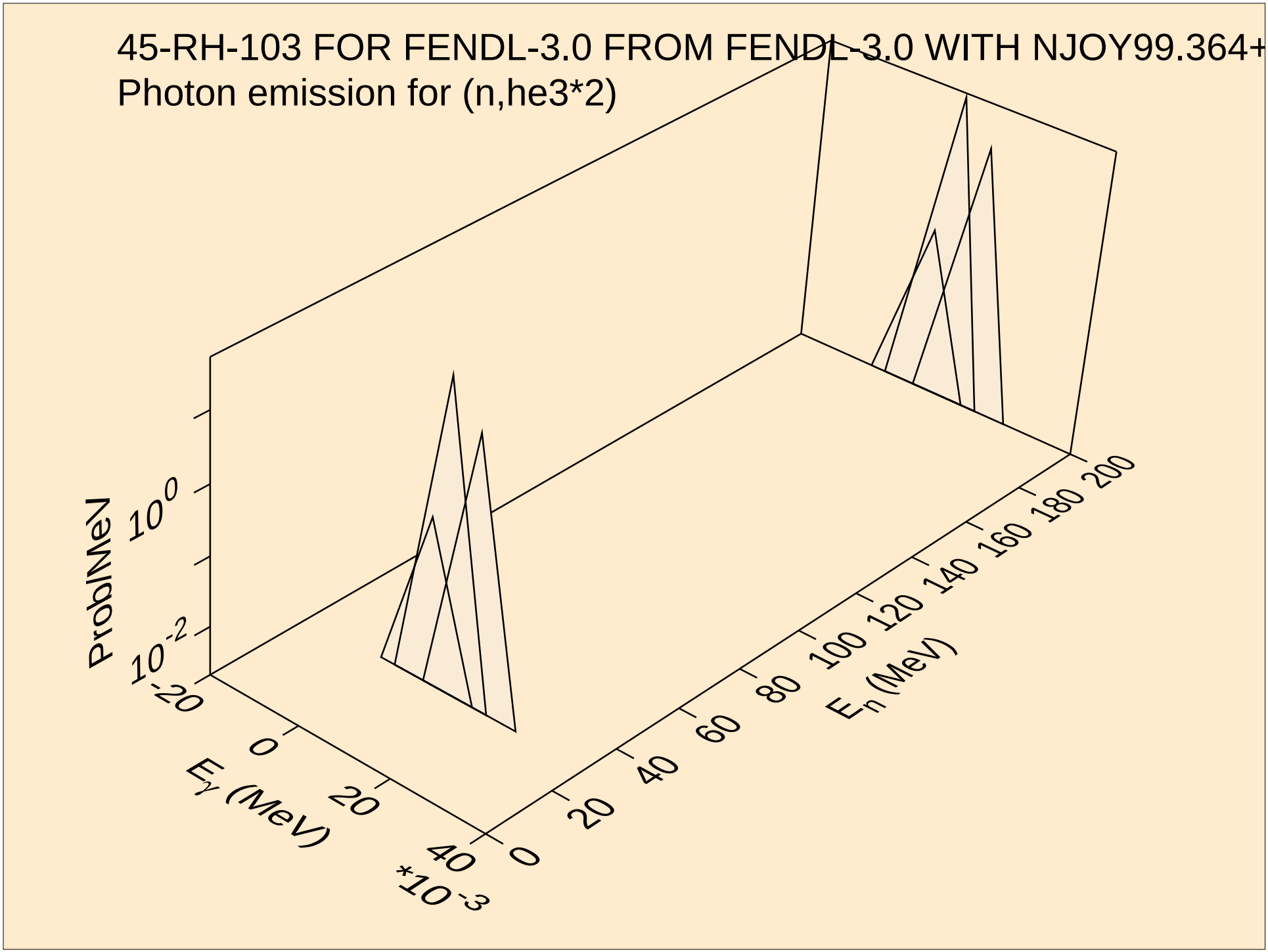

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*13)
Prob/MeV
10^0
10^-2
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

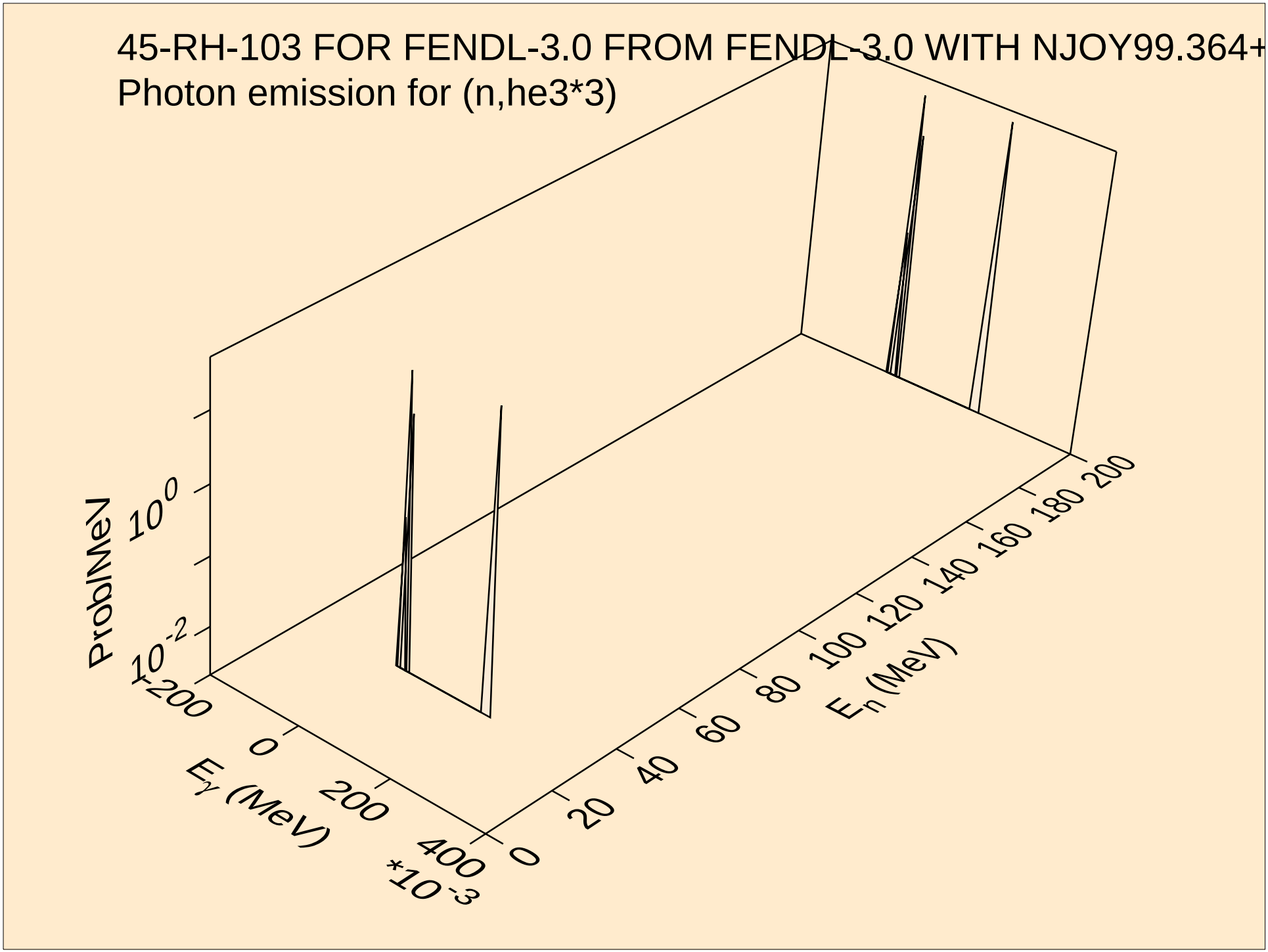

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*14)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

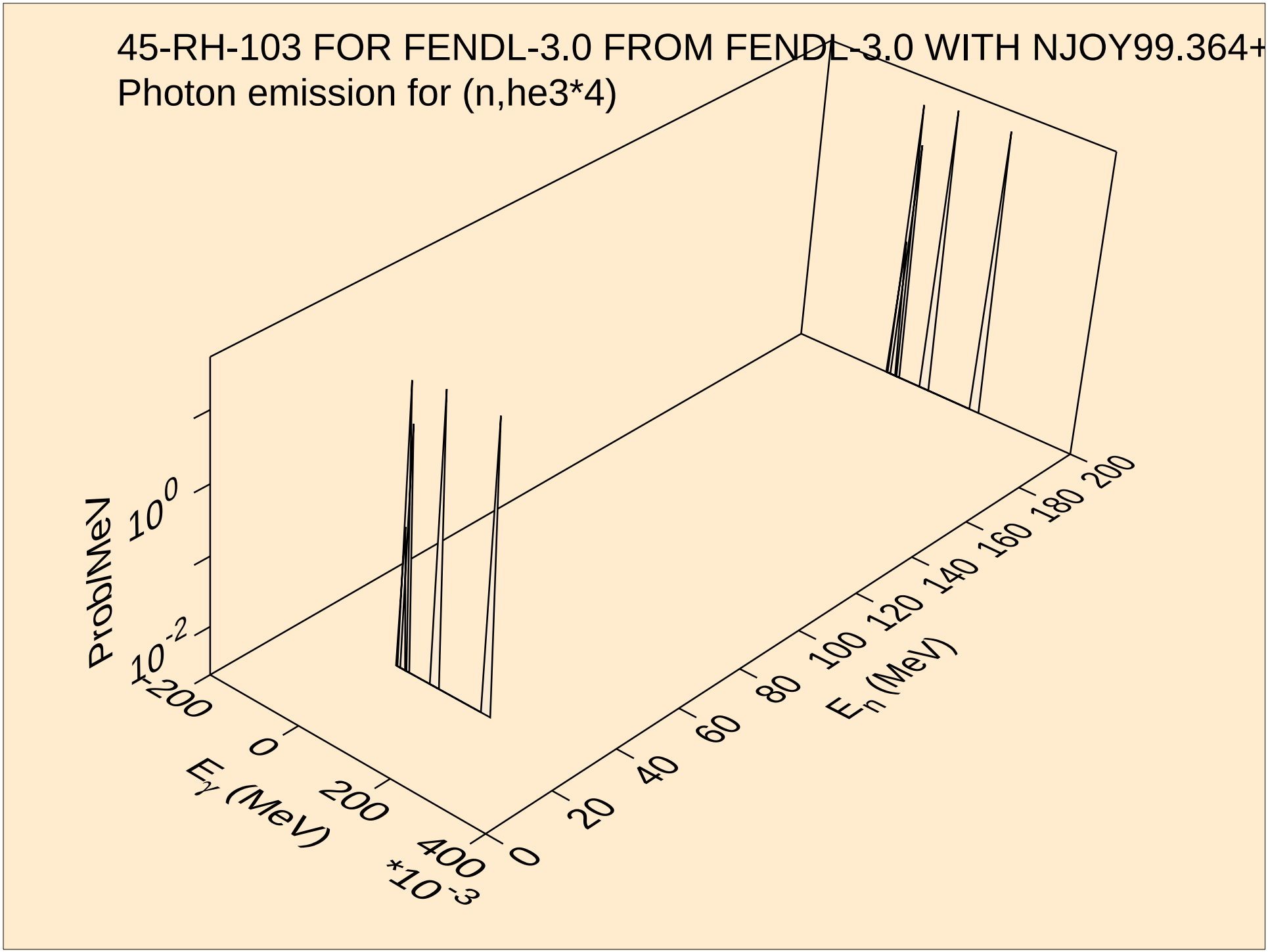

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*15)
Prob/MeV
10^0
10^-2
0
200
400
600
800
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

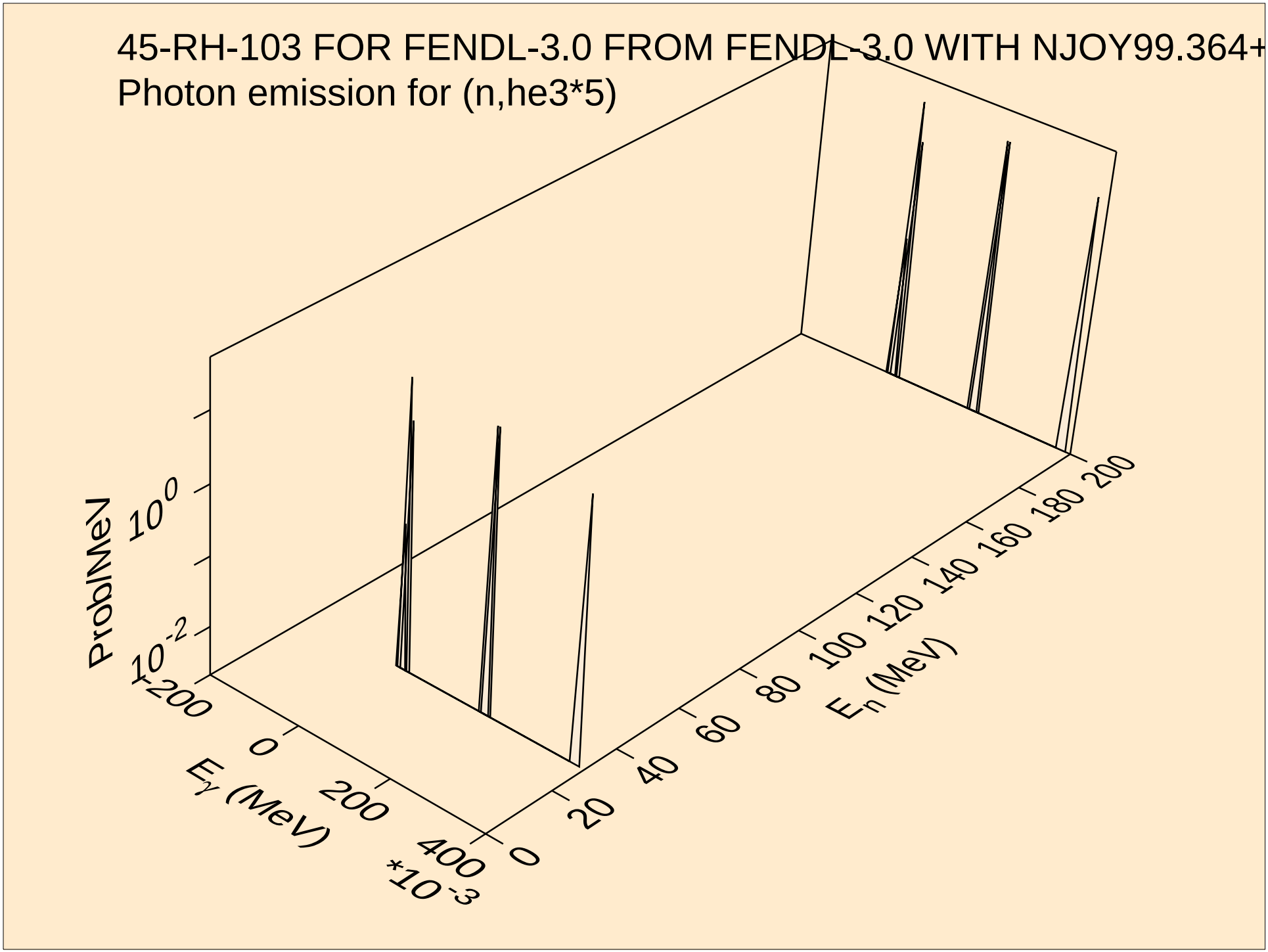

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,t*c)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
5
10
5
10
15
20
25
30
E_n (MeV)

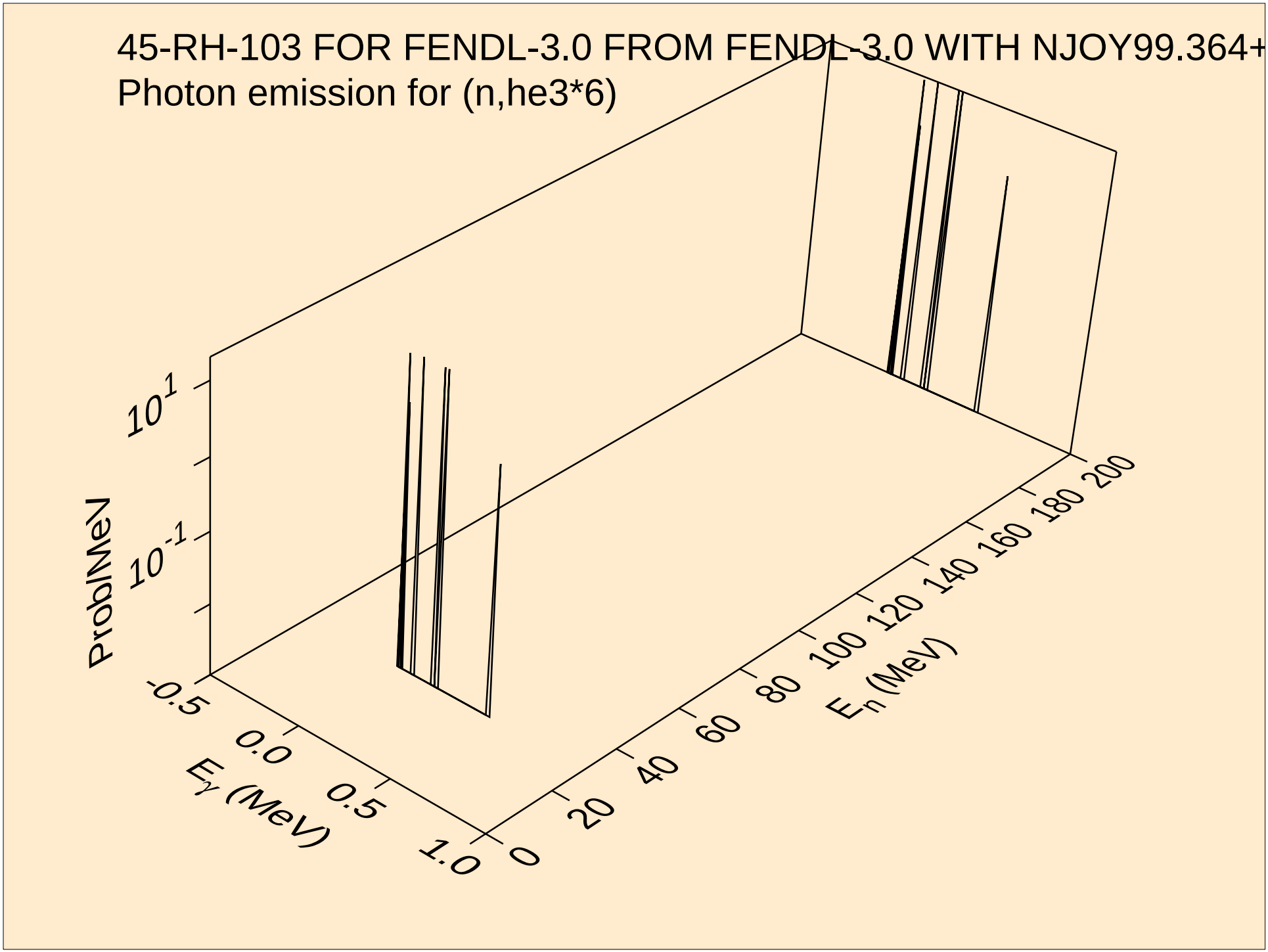

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*1)
Prob/MeV
10^0
10^-2
-20
0
20
E_γ (MeV)
*10^-3
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

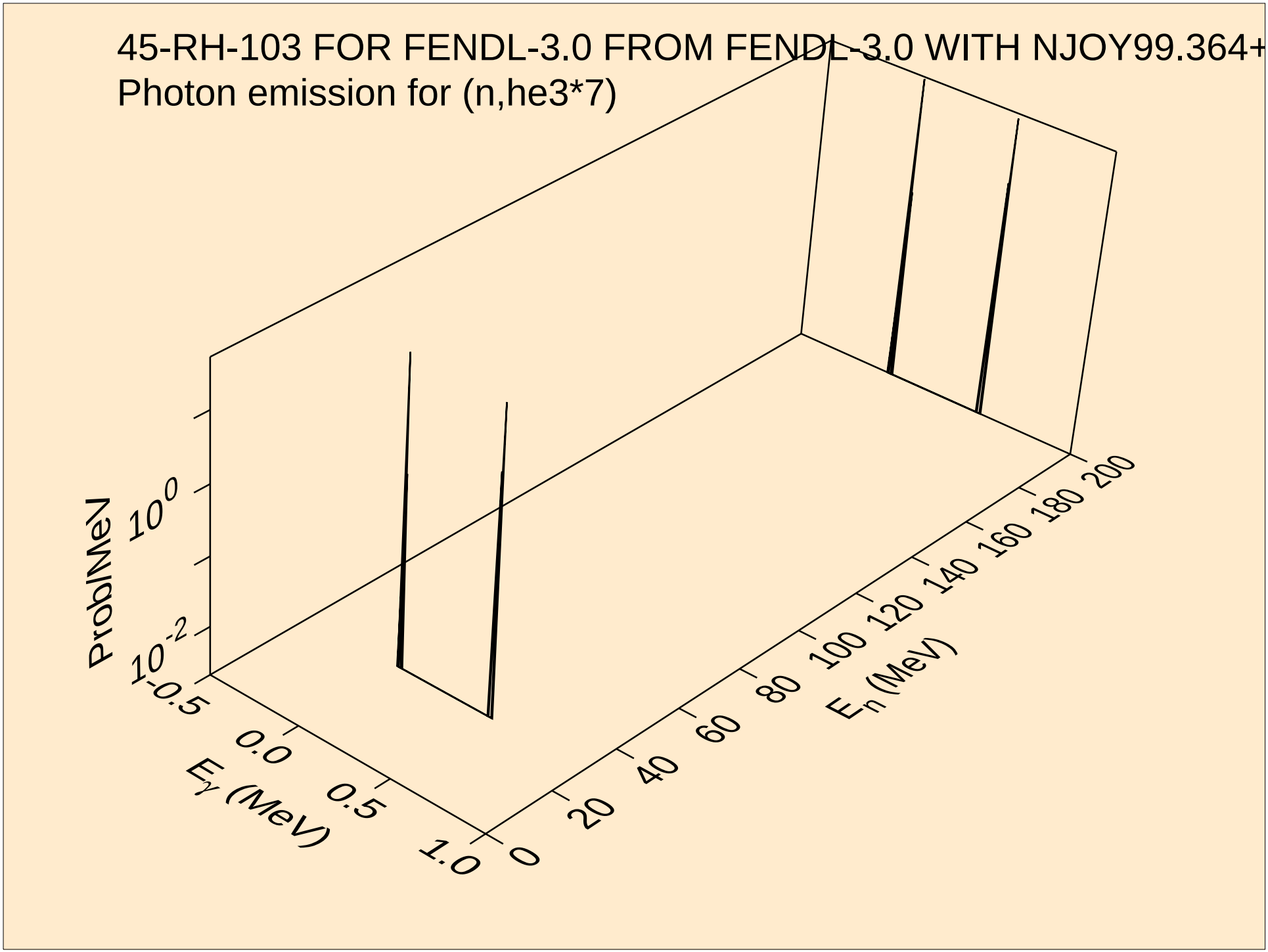

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*2)
Prob/MeV
10^0
10^-2
-20
0
20
40
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

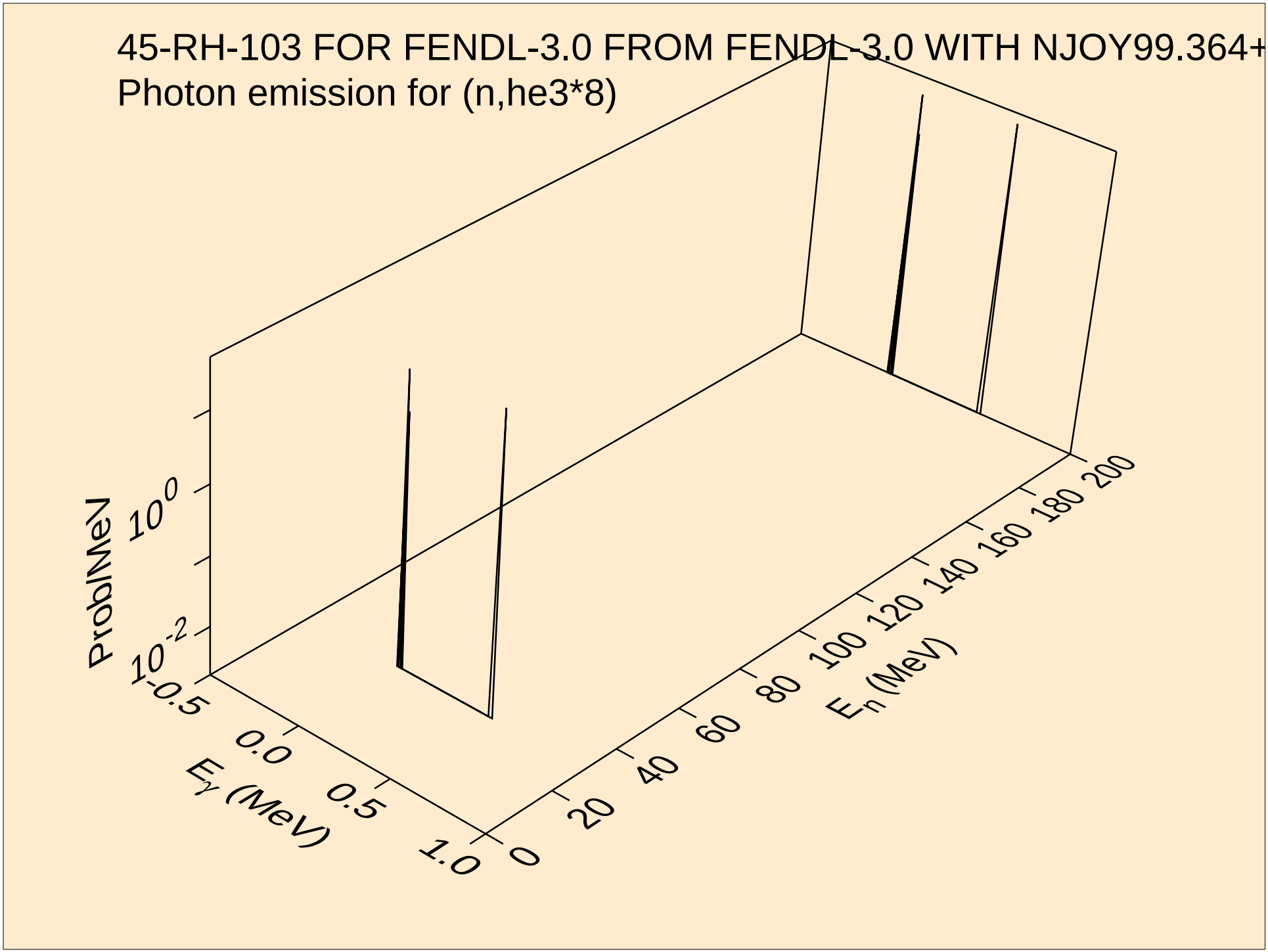

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*3)
Prob/MeV
10^0
10^-2
-200
0
200
400
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

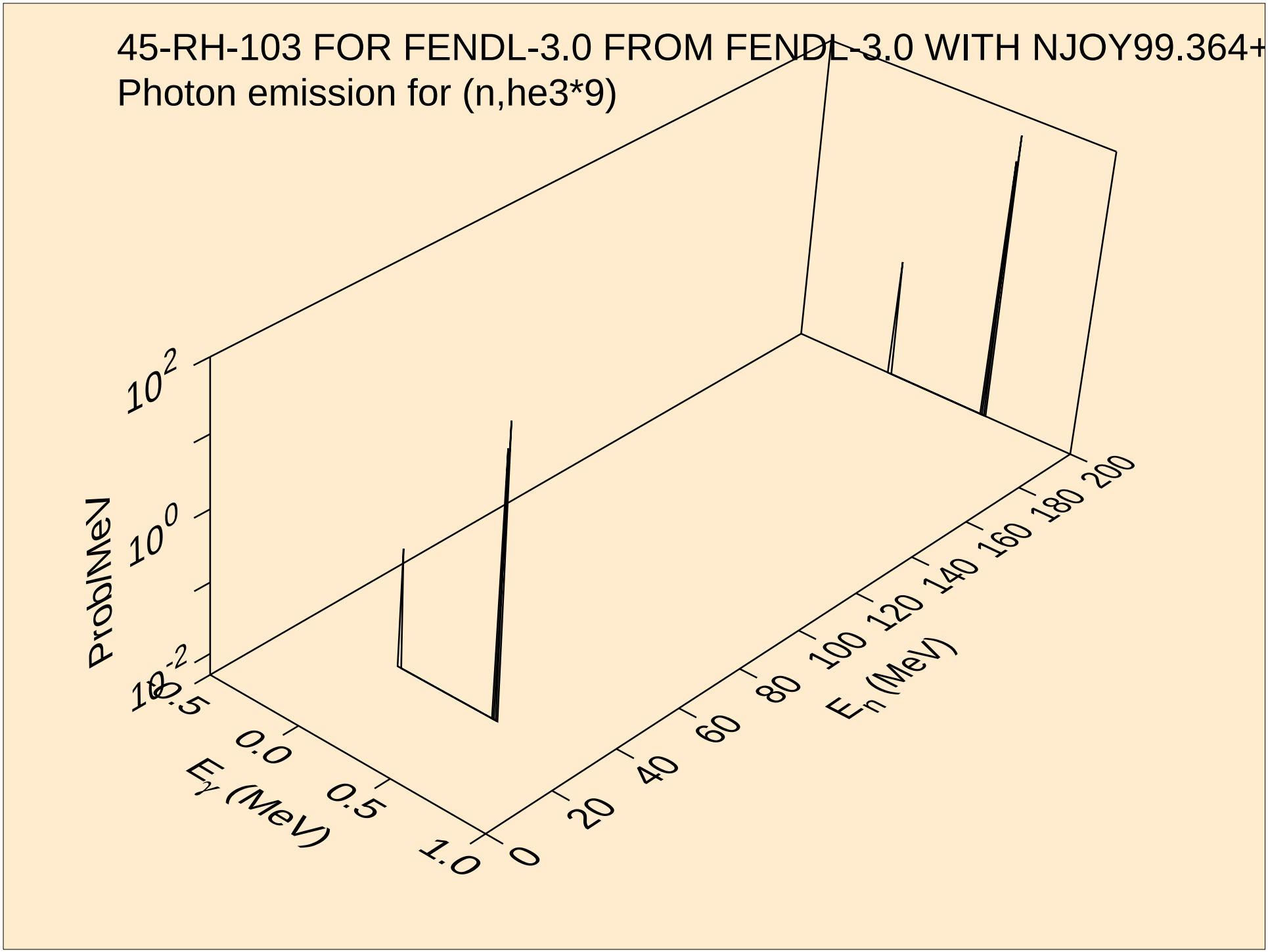

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*4)
Prob/MeV
10^0
10^-2
-200
0
200
400
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

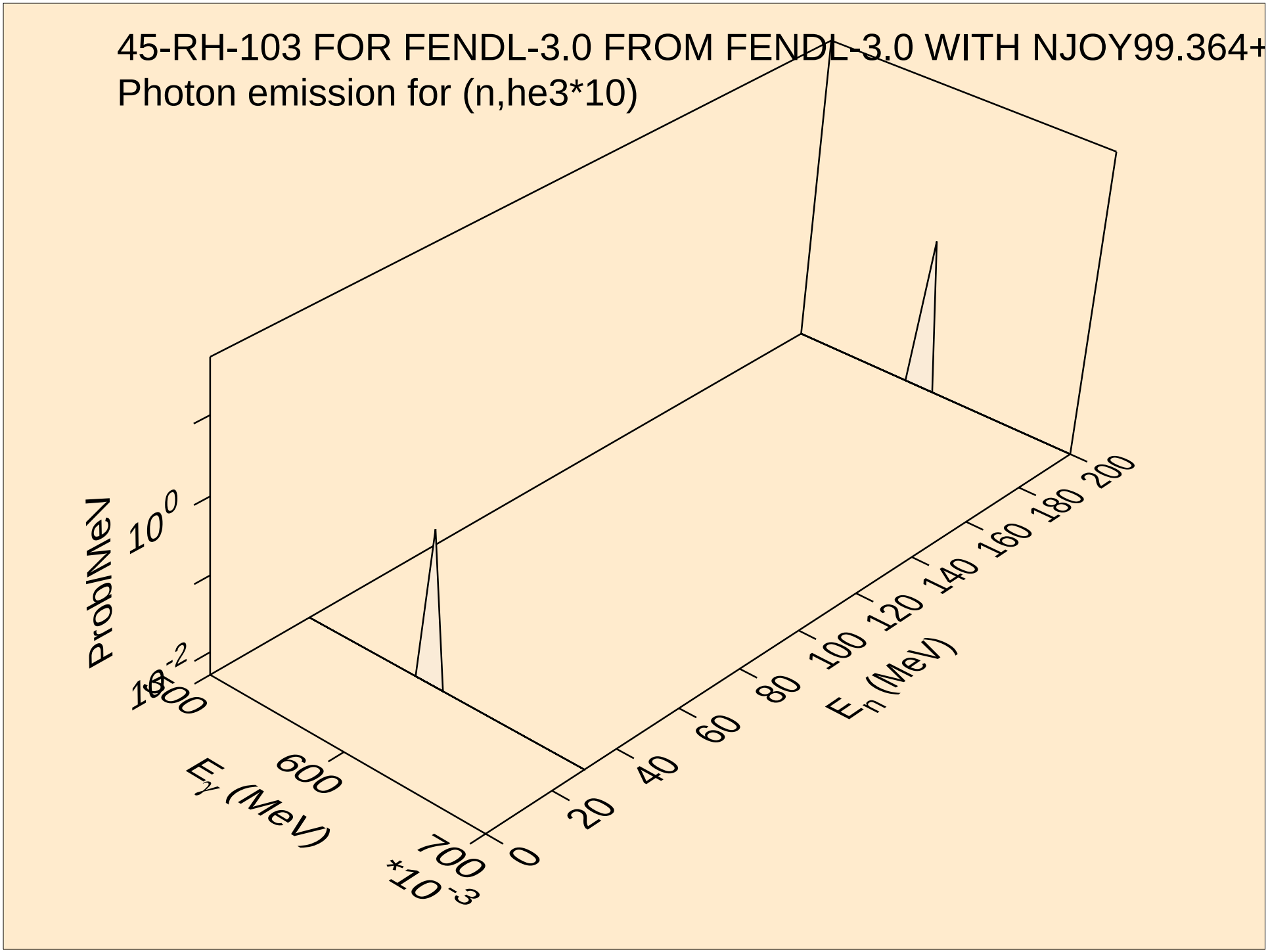

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*5)
Prob/MeV
10^0
10^-2
-200
0
200
400
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

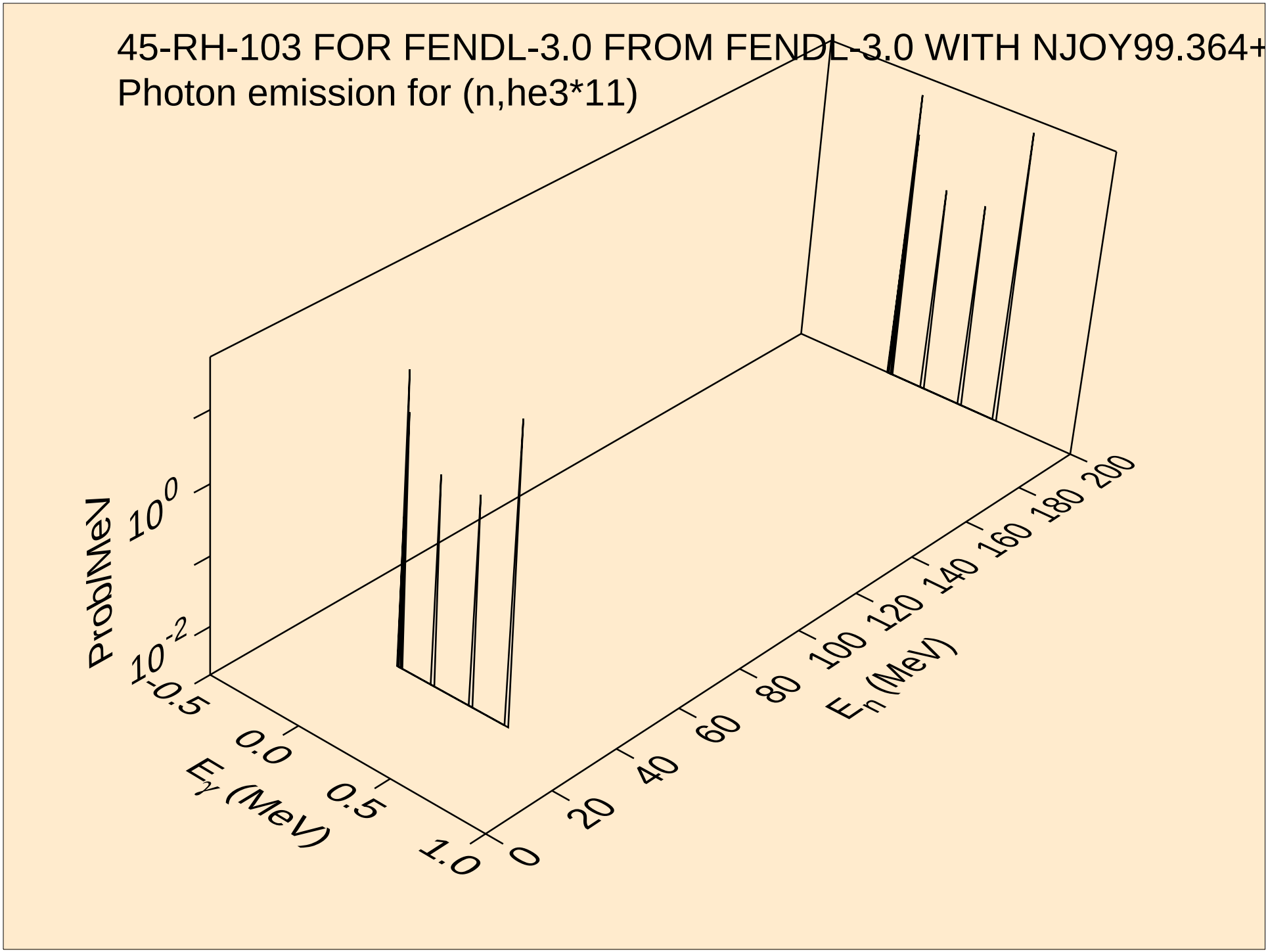

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*6)
Prob/MeV
10^{1}
10^{-1}
-0.5
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

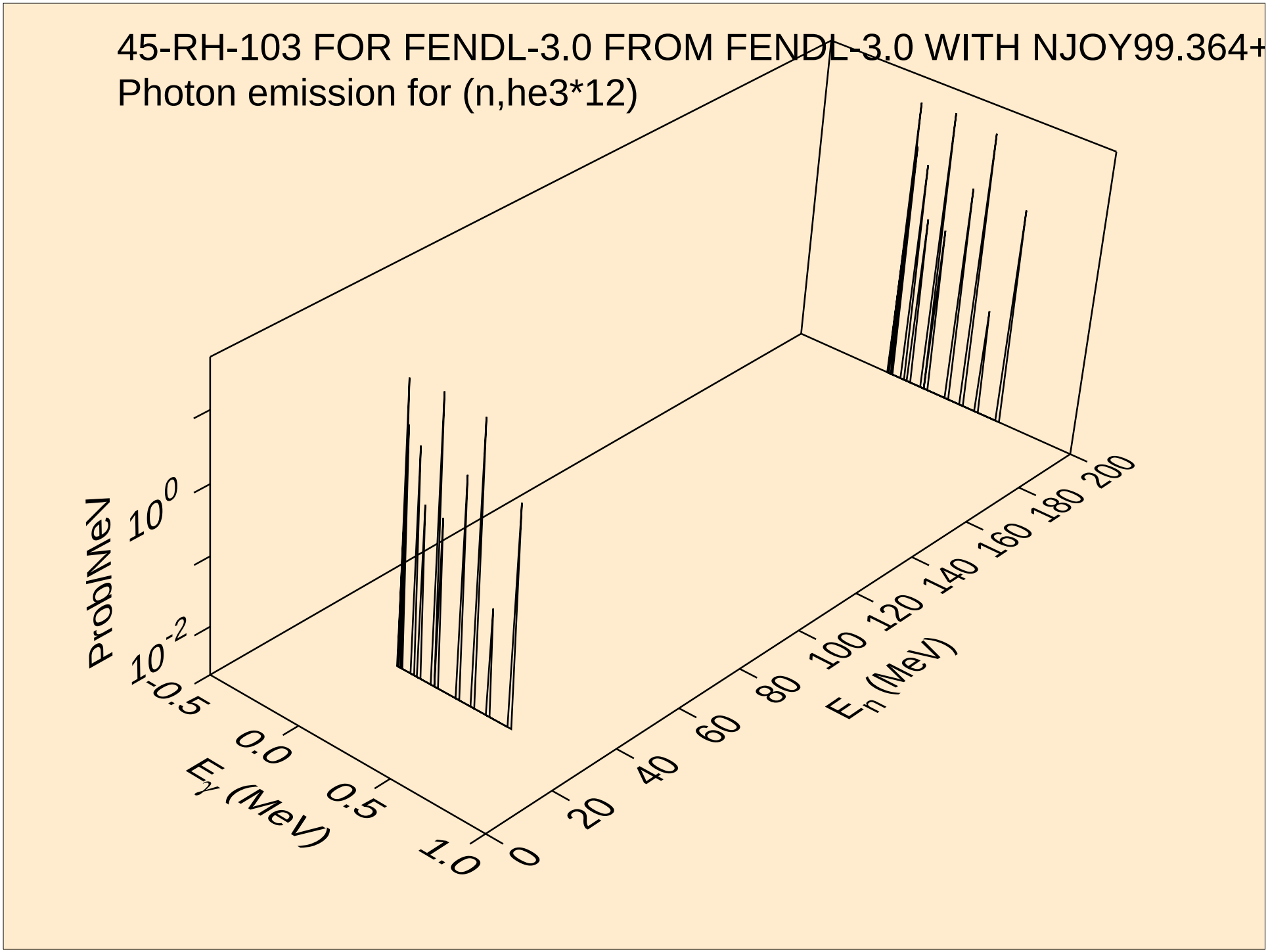

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*7)
Prob/MeV
10^{0}
10^{-2}
-0.5
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

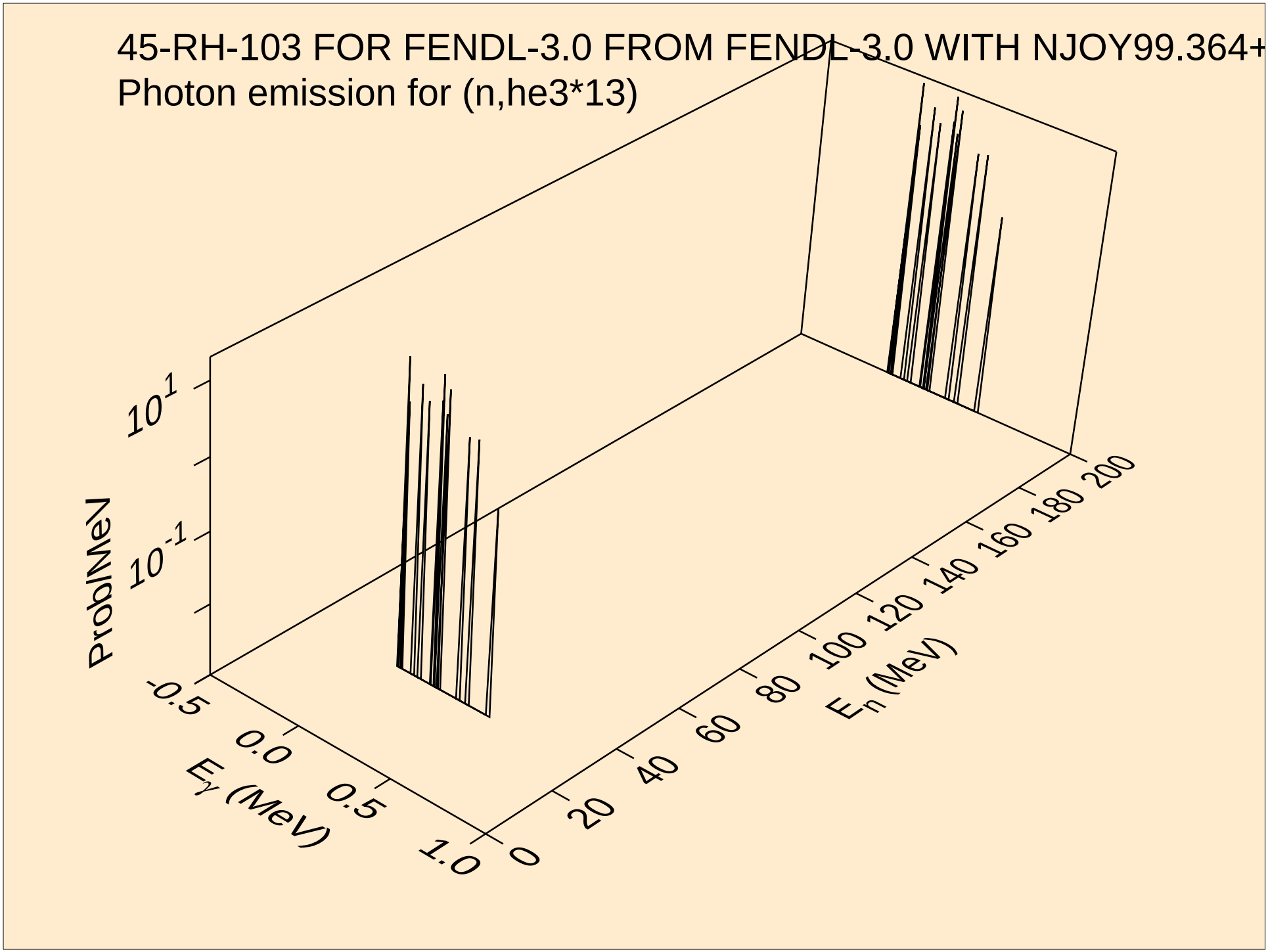

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*8)
Prob/MeV
10^0
10^-2
-0.5
0.0
0.5
1.0
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

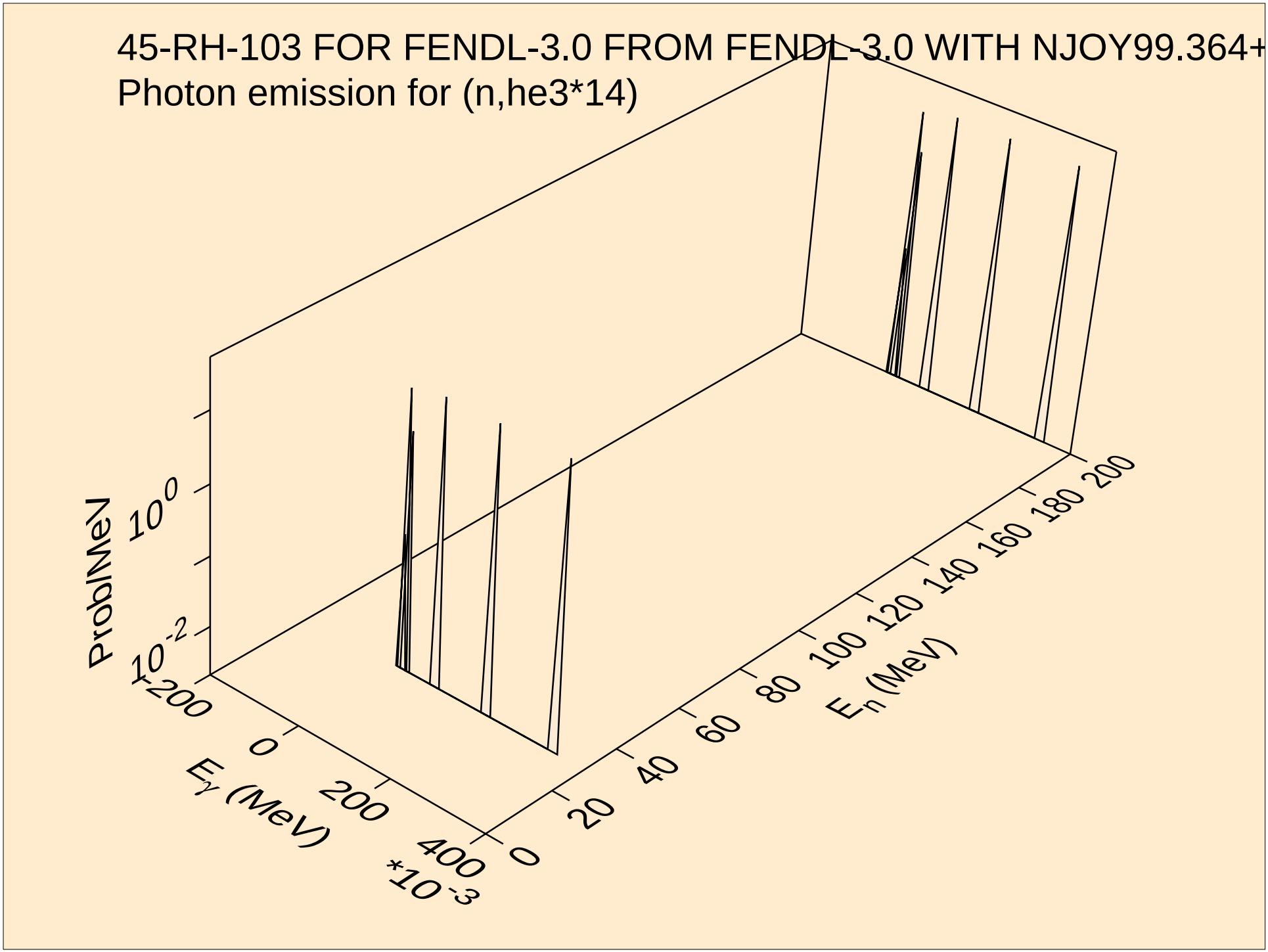

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*9)
Prob/MeV
10^{2}
10^{0}
10^{-2}
-0.5
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

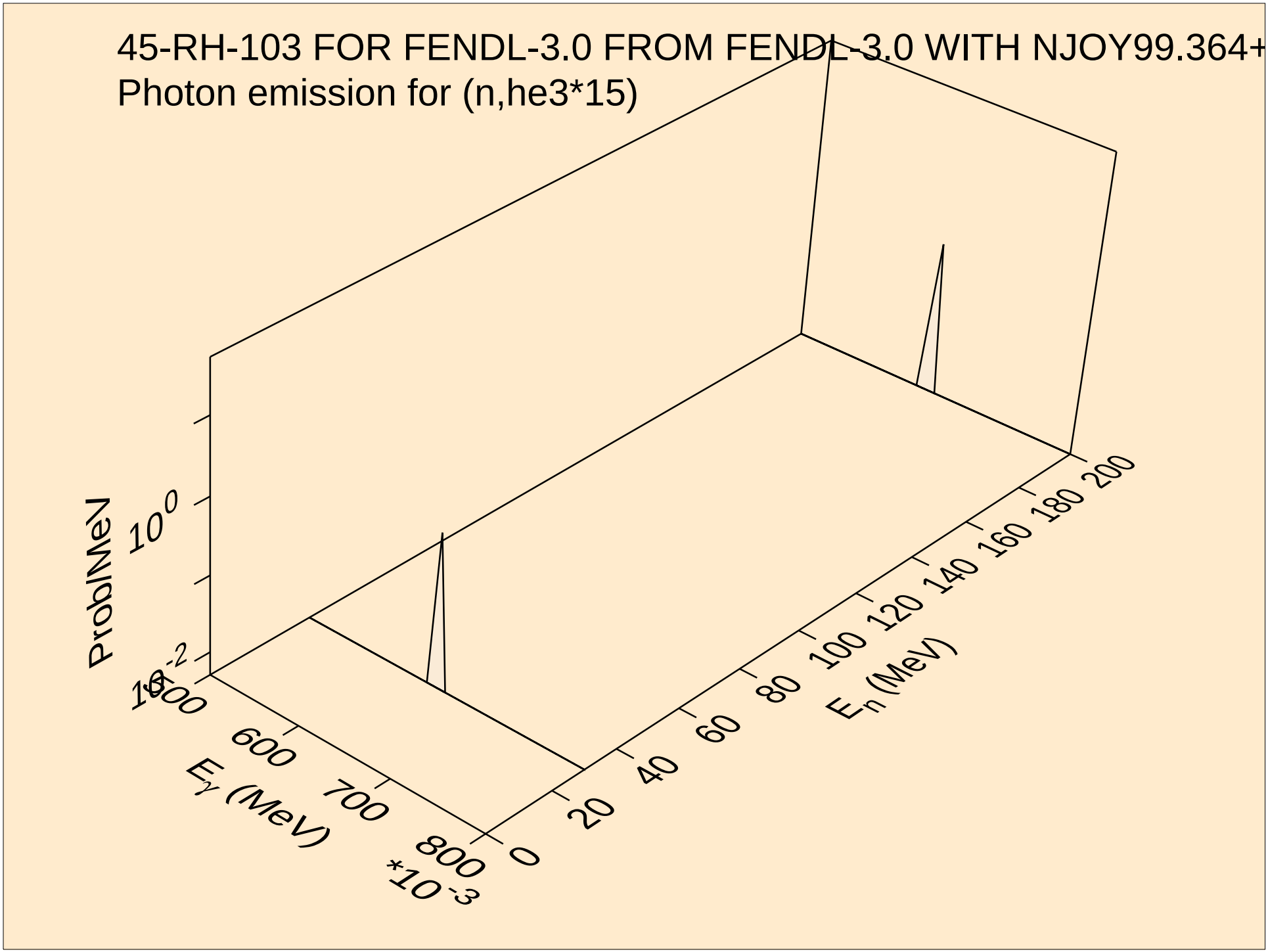

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*10)
Prob/MeV
10^0
10^-2
0
600
E_γ (MeV)
700
*10^-3
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

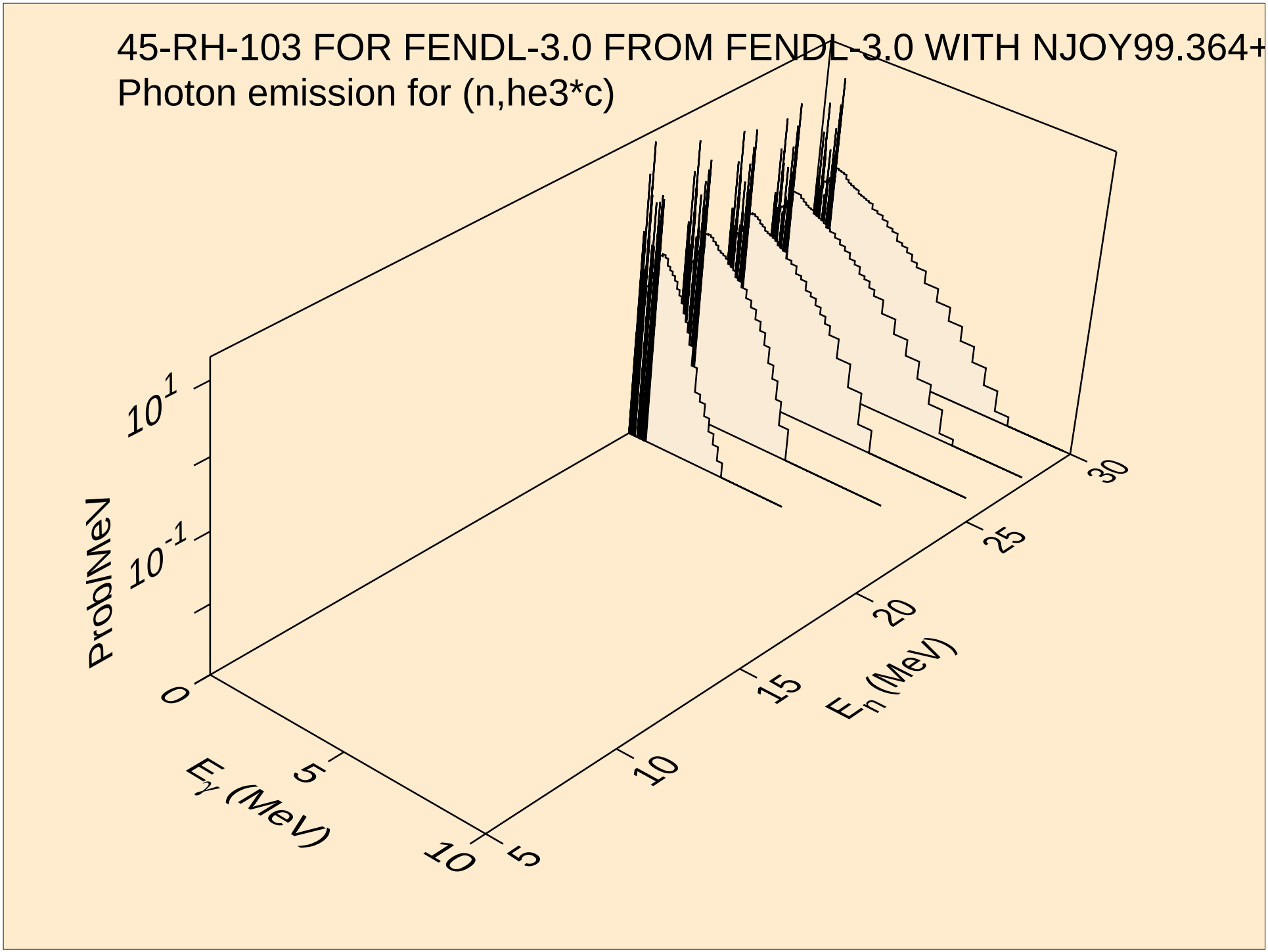

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*11)
Prob/MeV
10^0
10^-2
-0.5
0.0
0.5
1.0
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

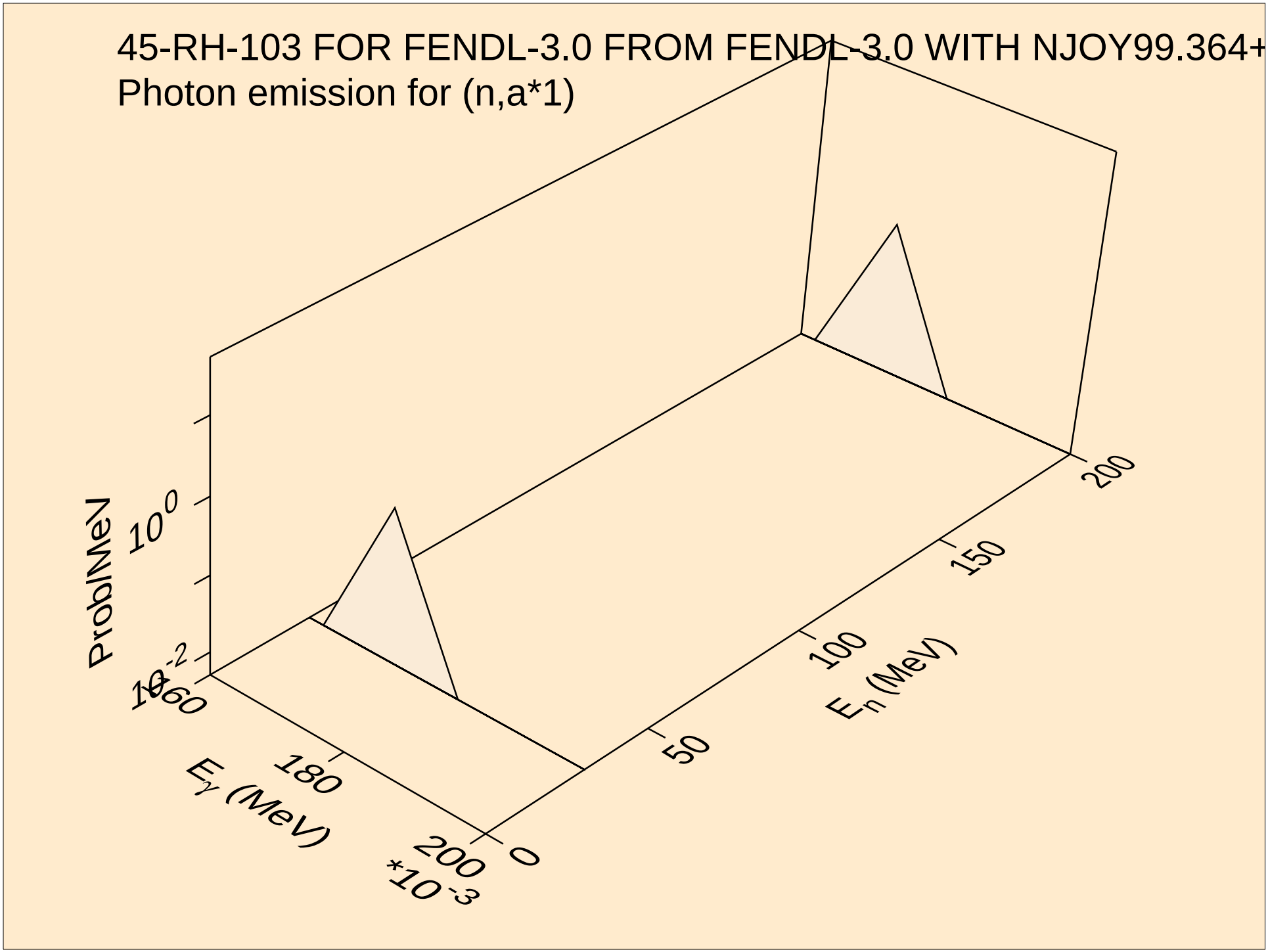

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*12)
Prob/MeV
10^{0}
10^{-2}
-0.5
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

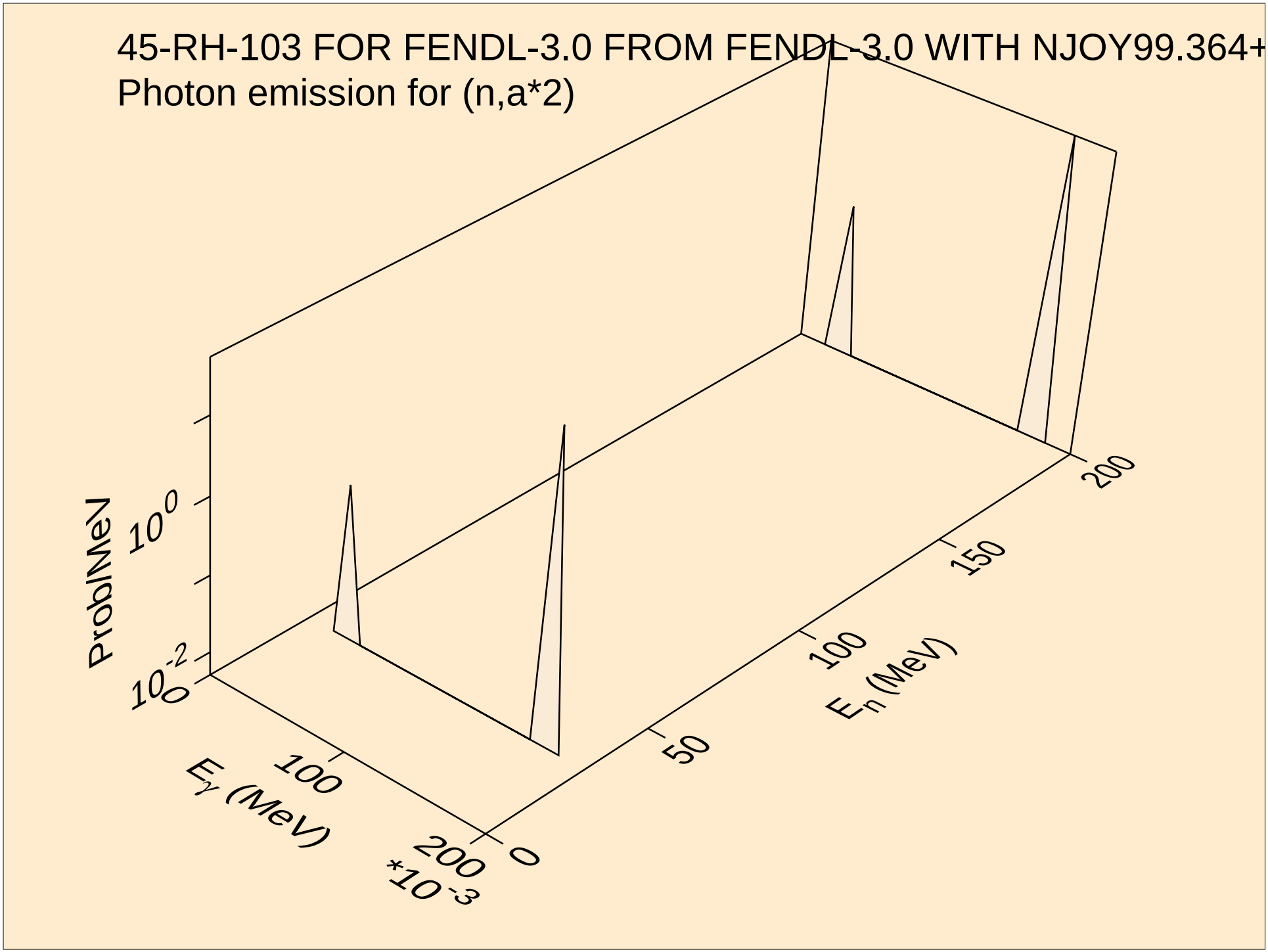

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*13)
Prob/MeV
10^{1}
10^{-1}
-0.5
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

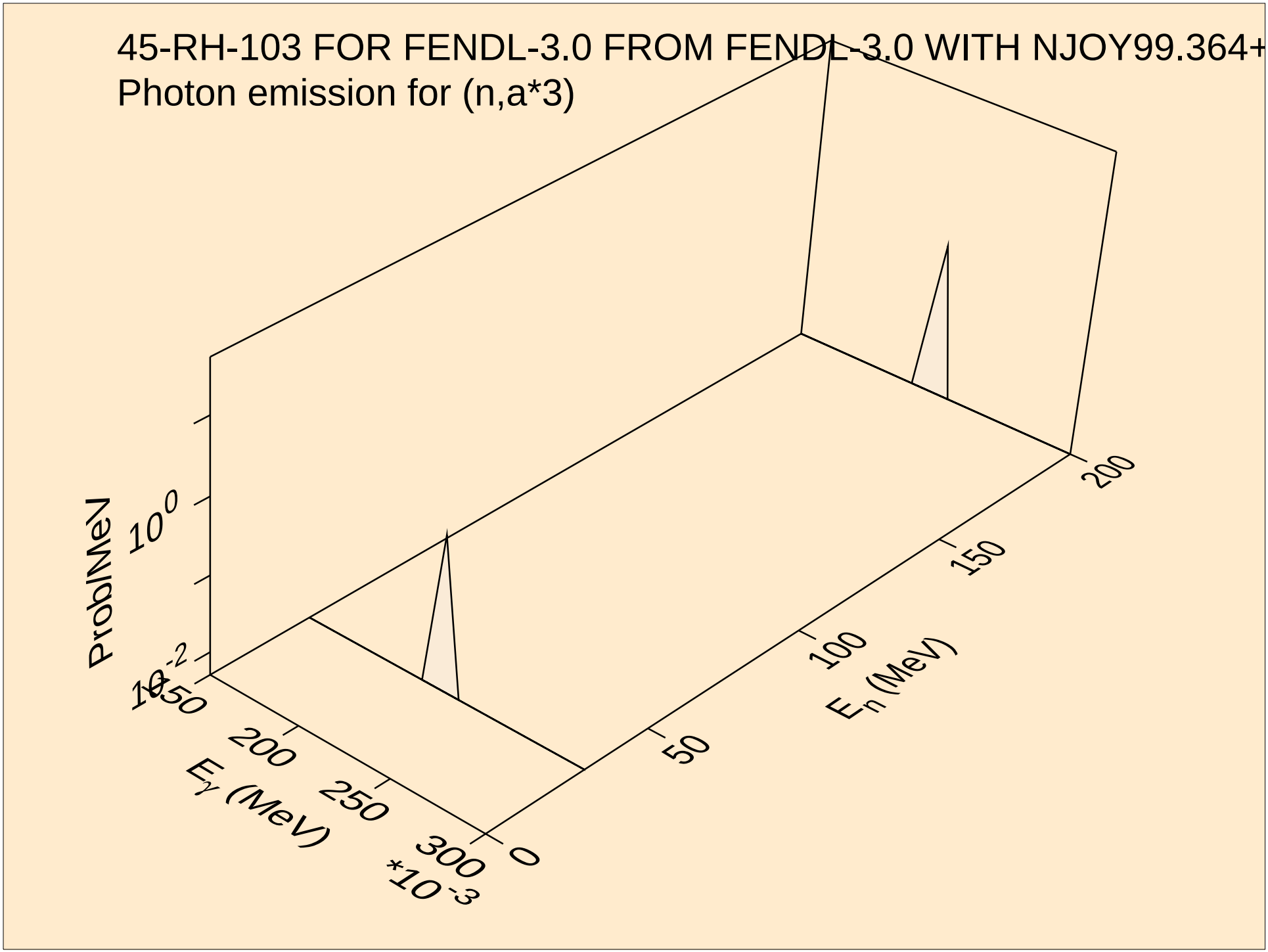

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*14)
Prob/MeV
10^0
10^-2
-200
0
200
400
*10^-3
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

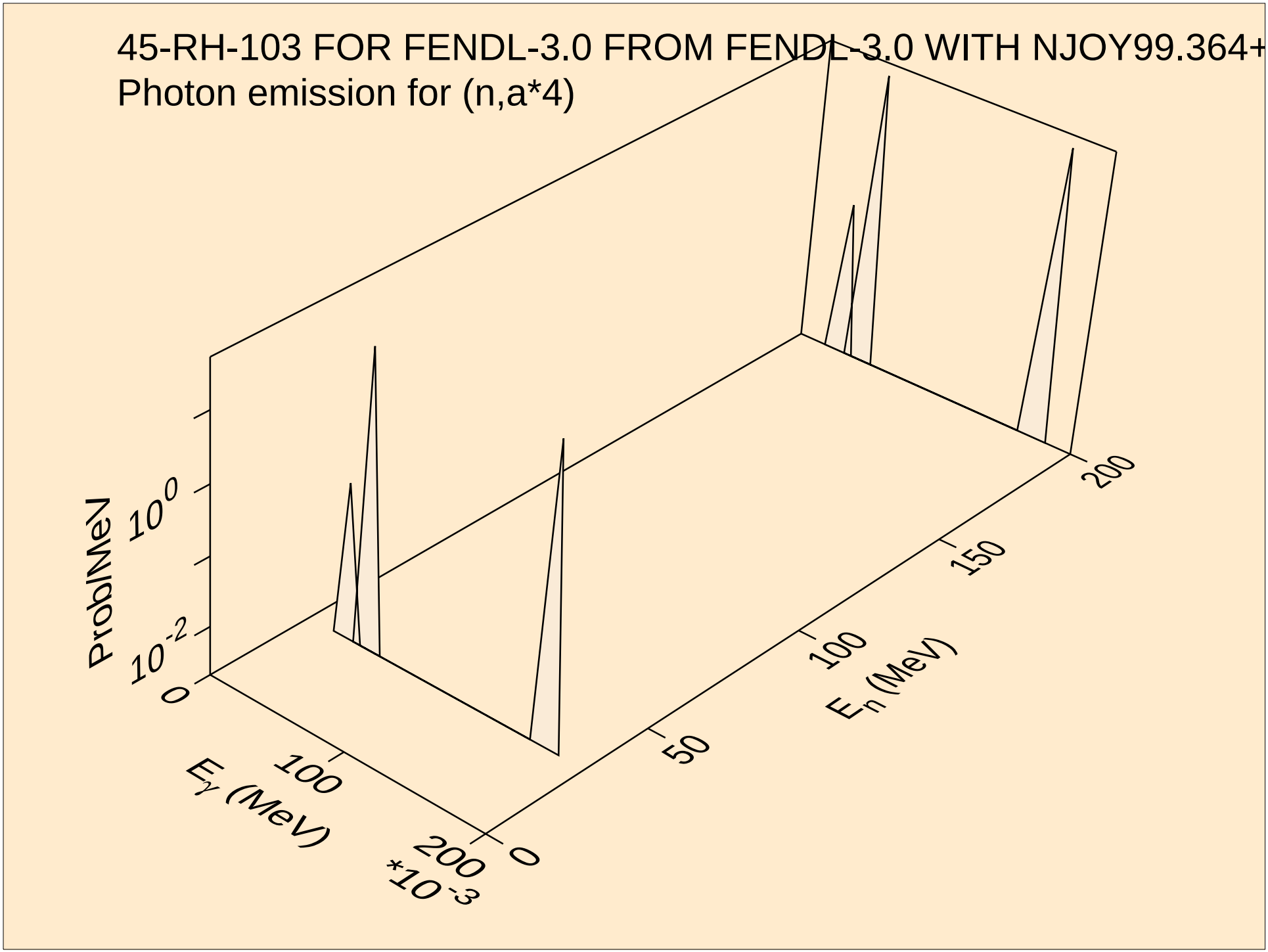

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*15)
Prob/MeV
10^0
10^-2
500
600
700
800
E_γ (MeV)
*10^-3
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

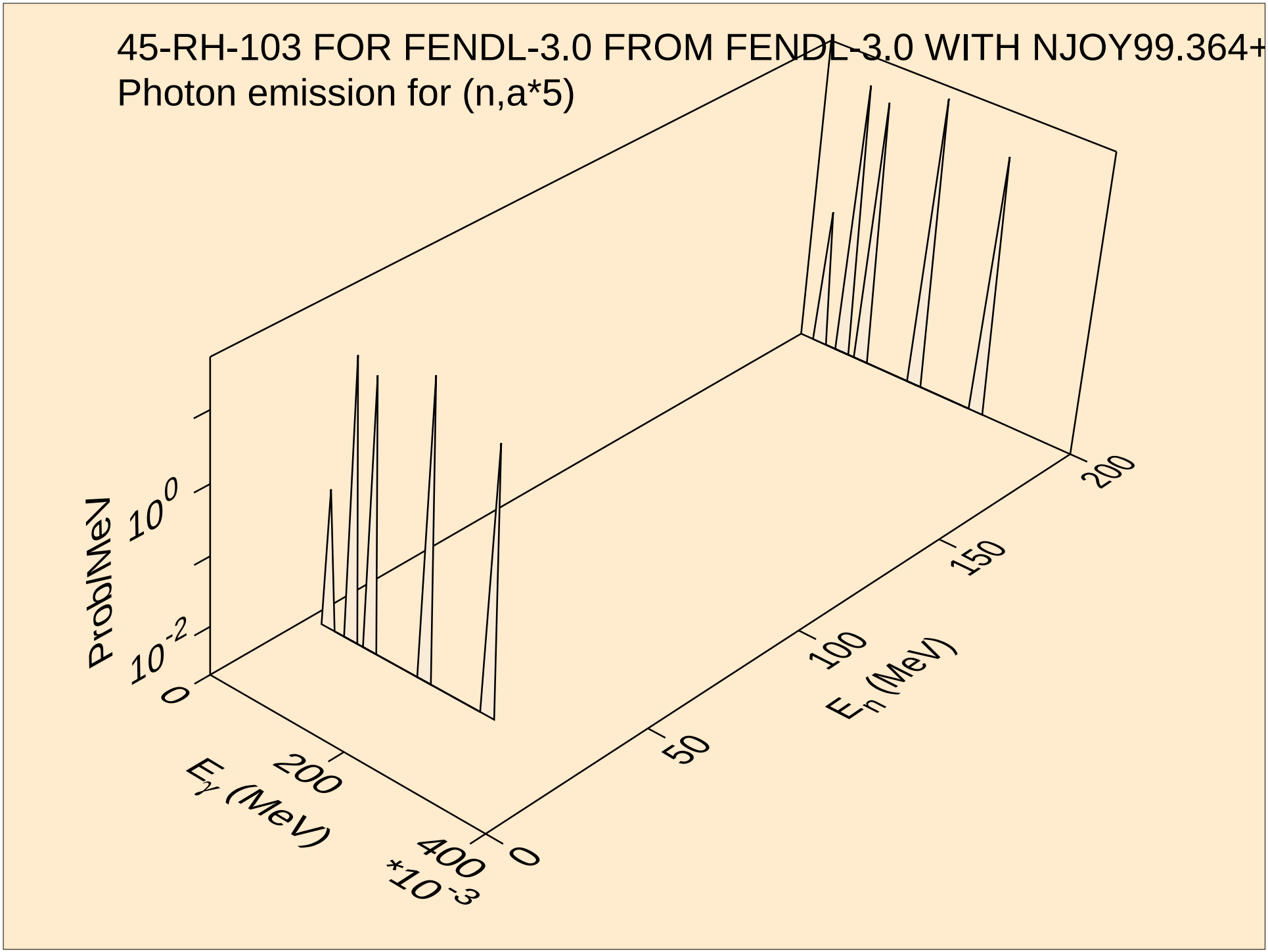

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,he3*c)
Prob/MeV
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

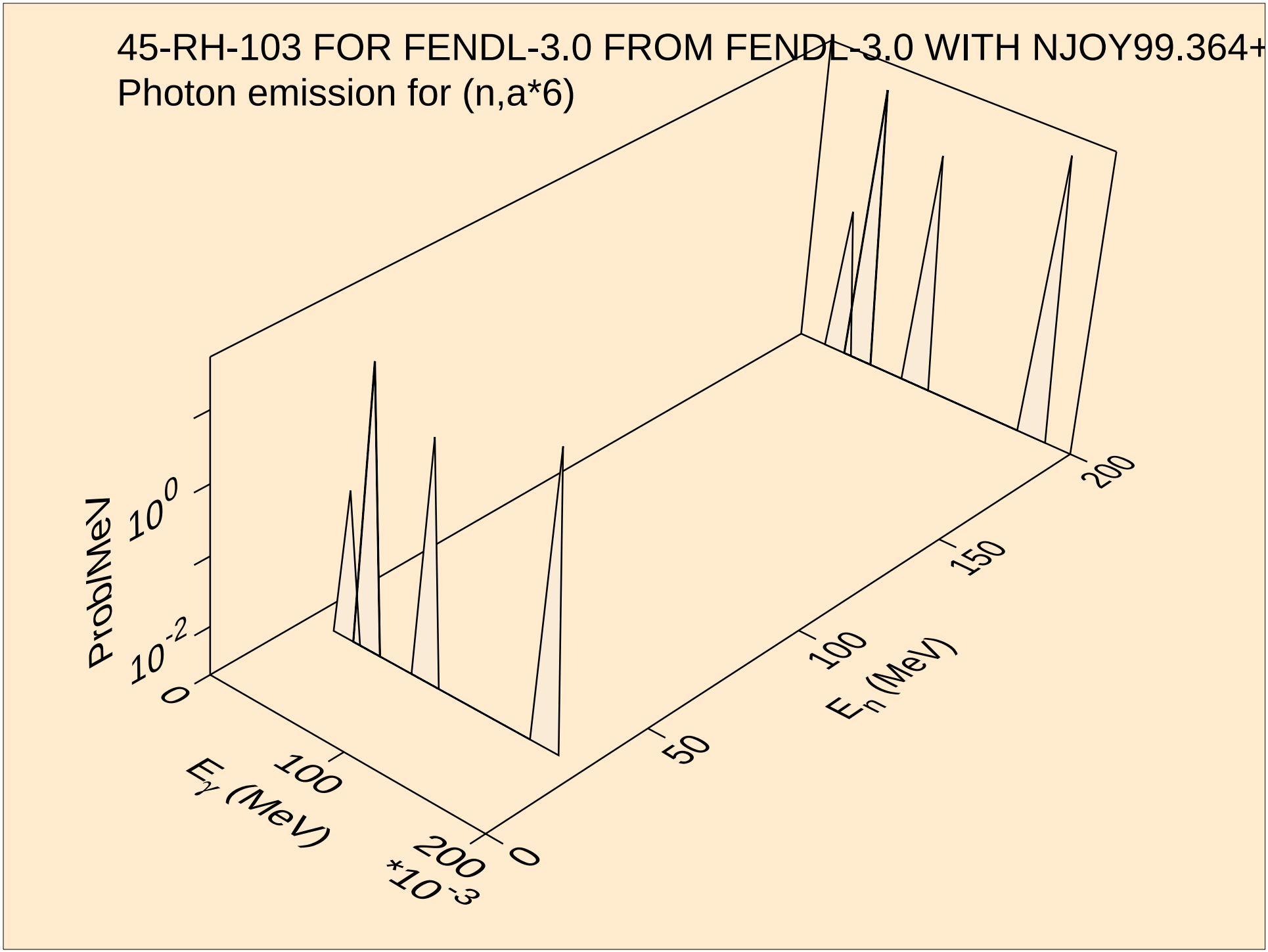

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*1)
Prob/MeV
10^0
10^-2
60
180
200
0
*10^-3
Eγ (MeV)
50
100
150
200
En (MeV)

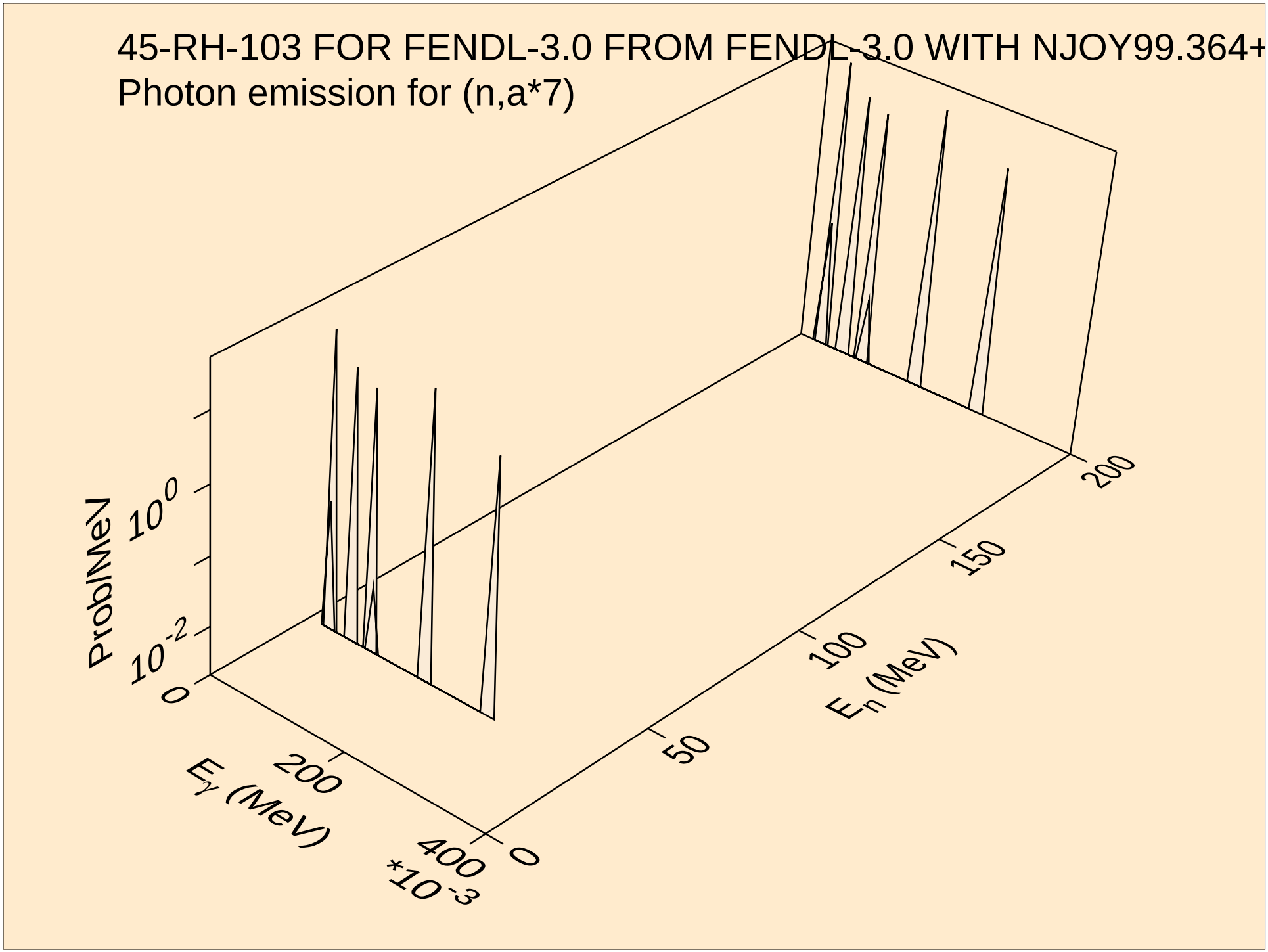

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*2)
Prob/MeV
10^0
10^-2
0
100
200
*10^-3
Eγ (MeV)
50
100
150
200
En (MeV)

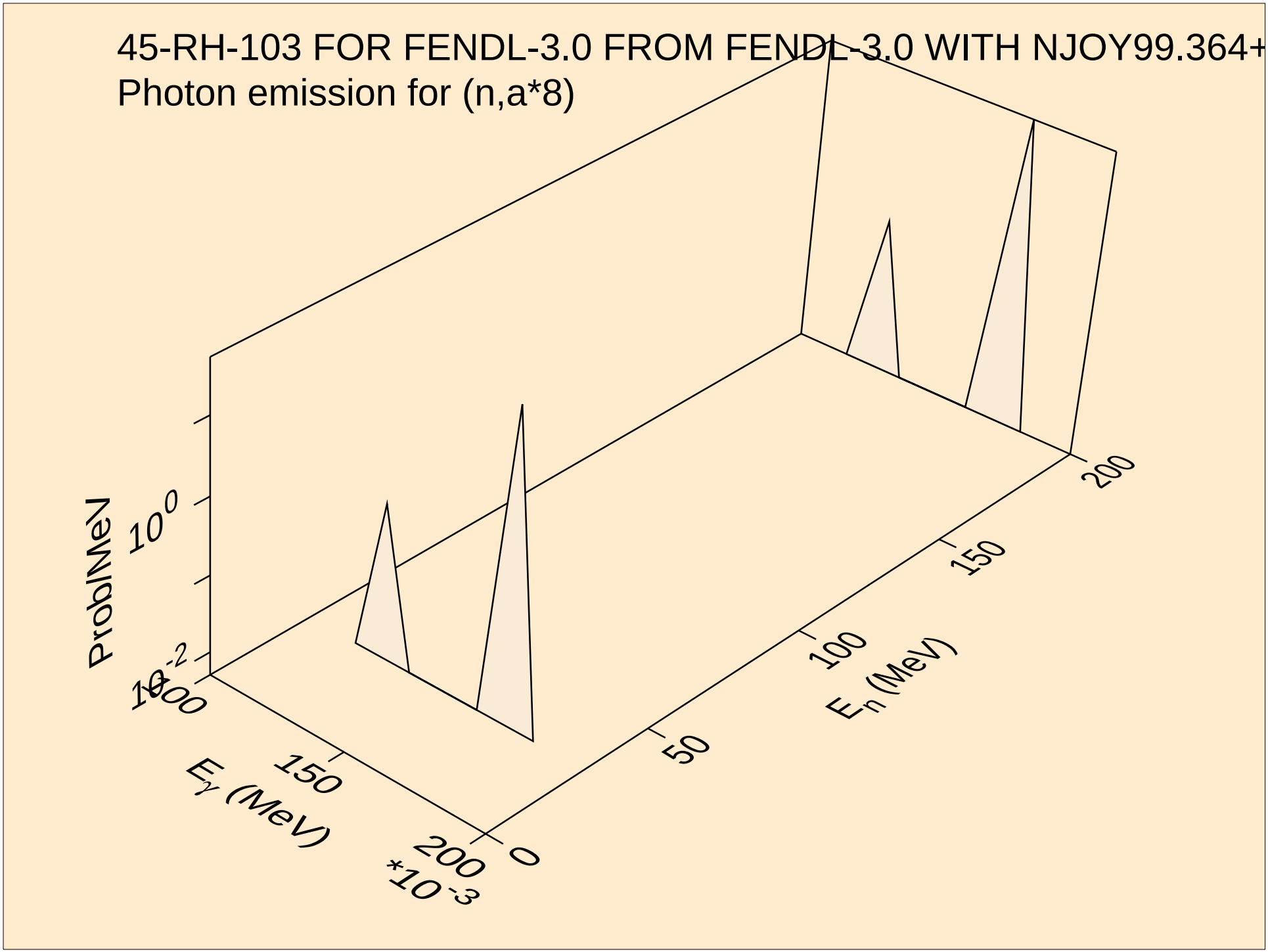

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*3)
Prob/MeV
10^0
10^{-2}
150
200
250
300
$*10^{-3}$
E_γ (MeV)
0
50
100
150
200
E_n (MeV)

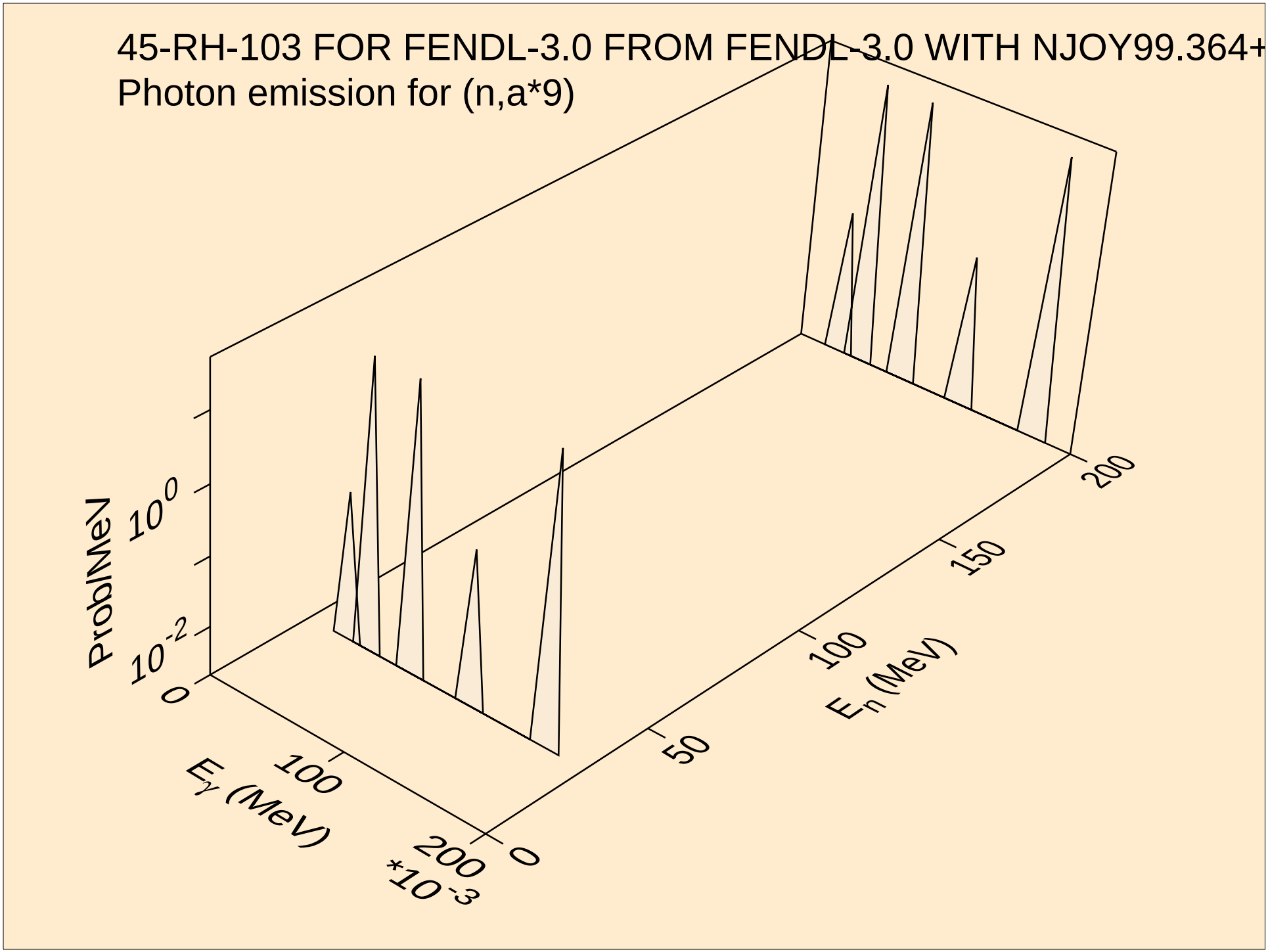

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*4)
Prob/MeV
10^0
10^-2
0
100
200
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

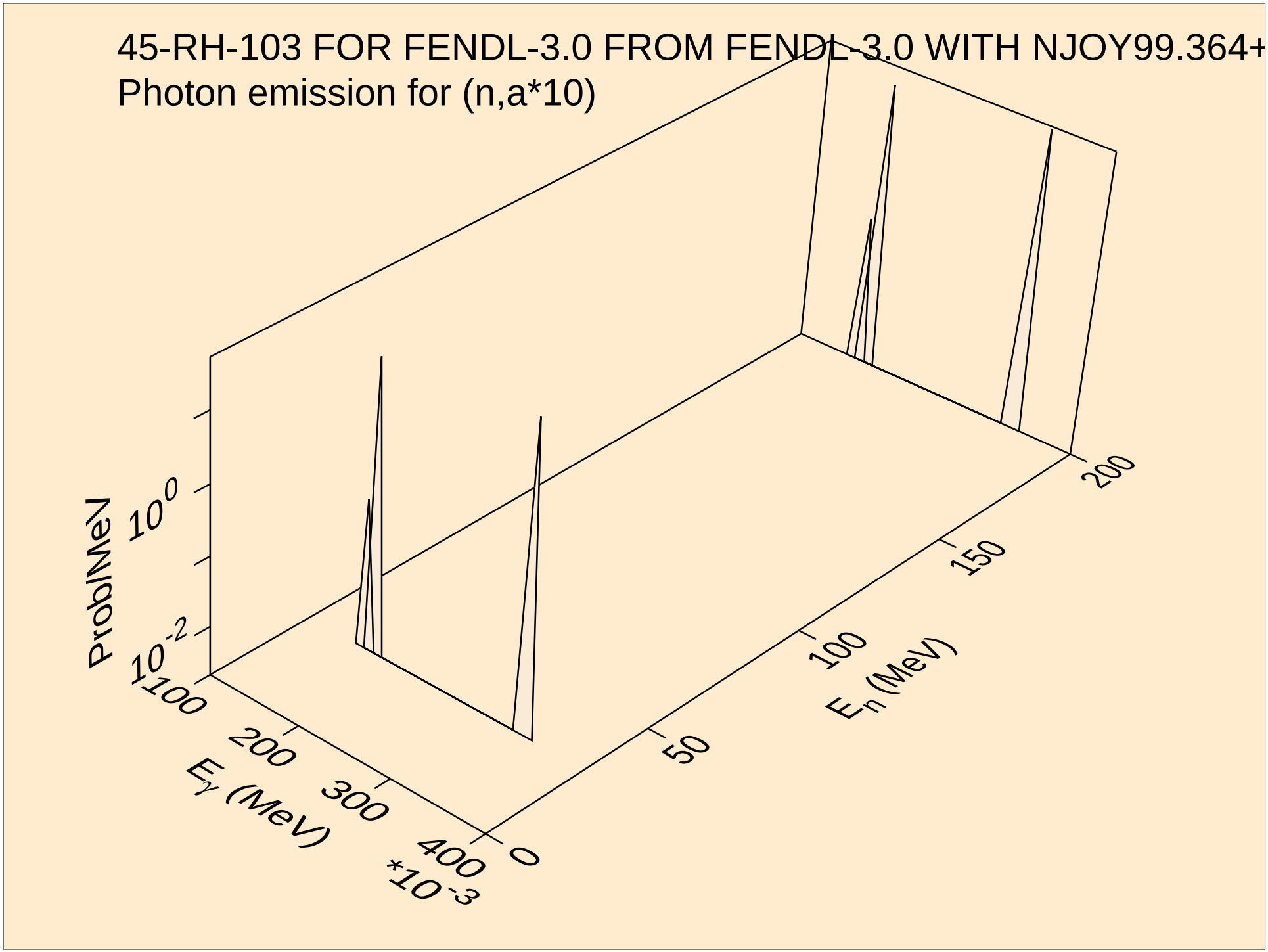

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*5)
Prob/MeV
10^0
10^-2
0
200
400
*10^-3
E_γ (MeV)
0
50
100
150
200
E_n (MeV)

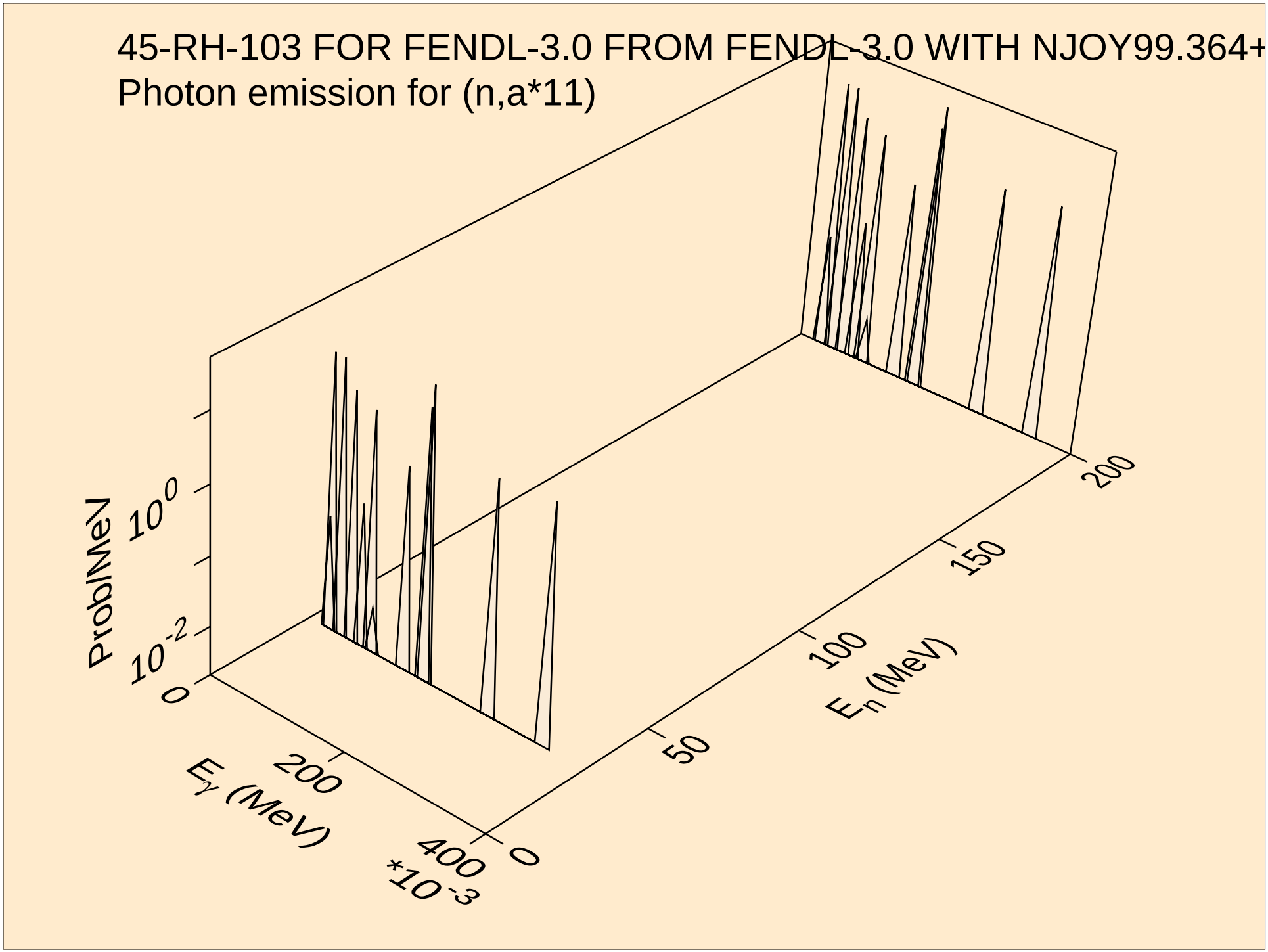

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*6)
Prob/MeV
10^0
10^-2
0
100
200
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

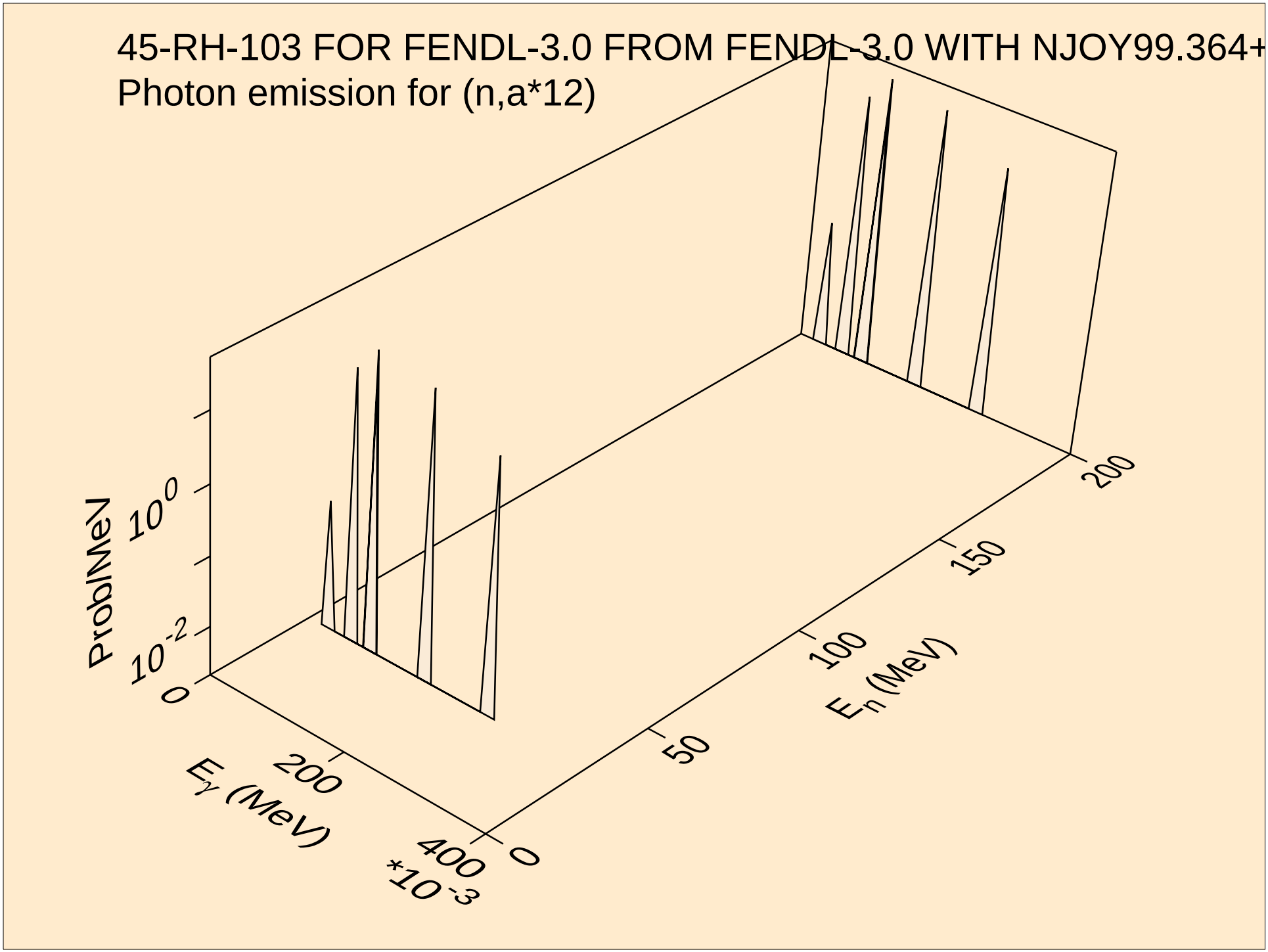

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*7)
Prob/MeV
10^0
10^-2
0
200
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

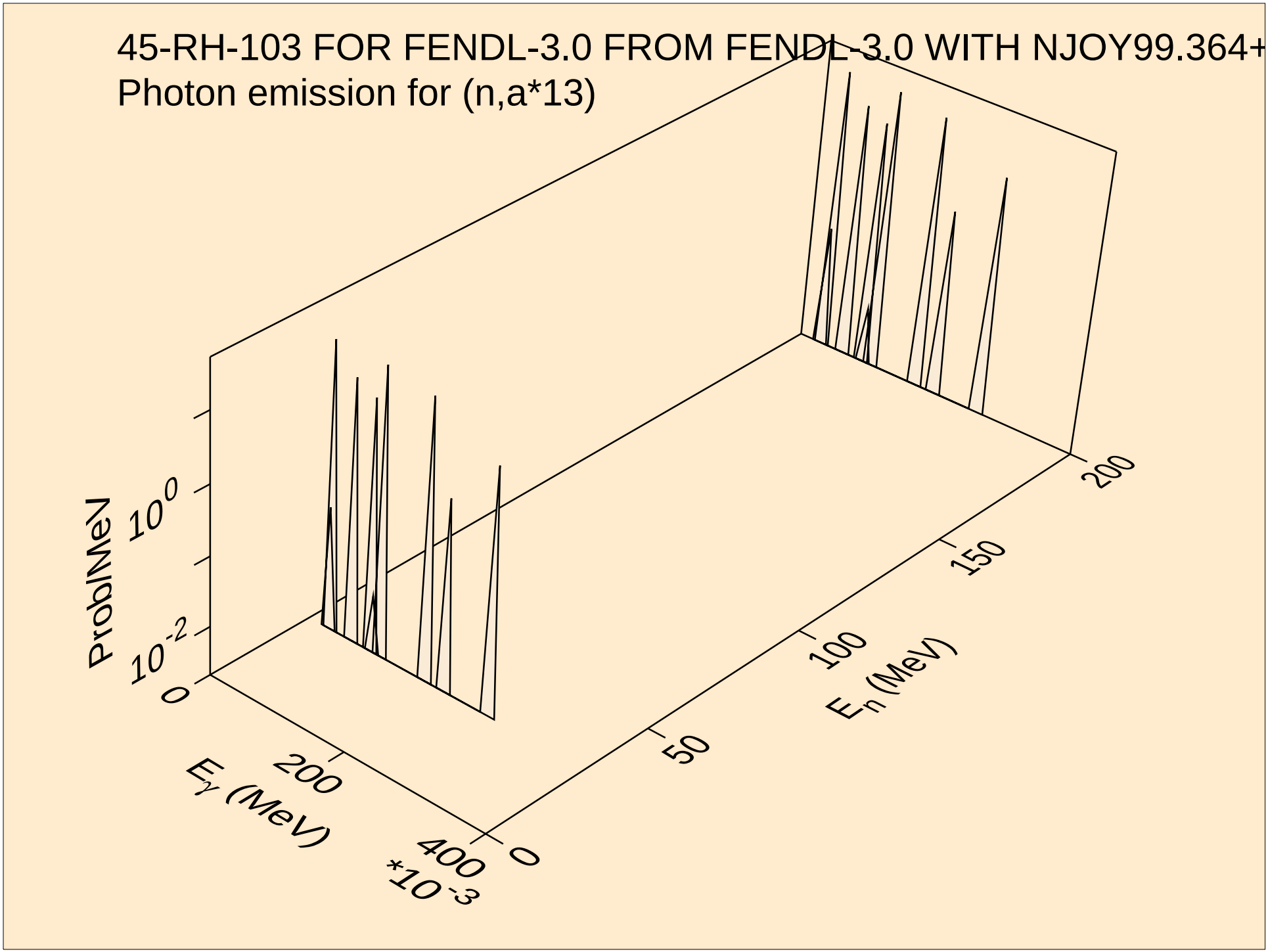

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*8)
Prob/MeV
10^0
10^-2
100
150
200
E_γ (MeV)
*10^-3
0
50
100
150
200
E_n (MeV)

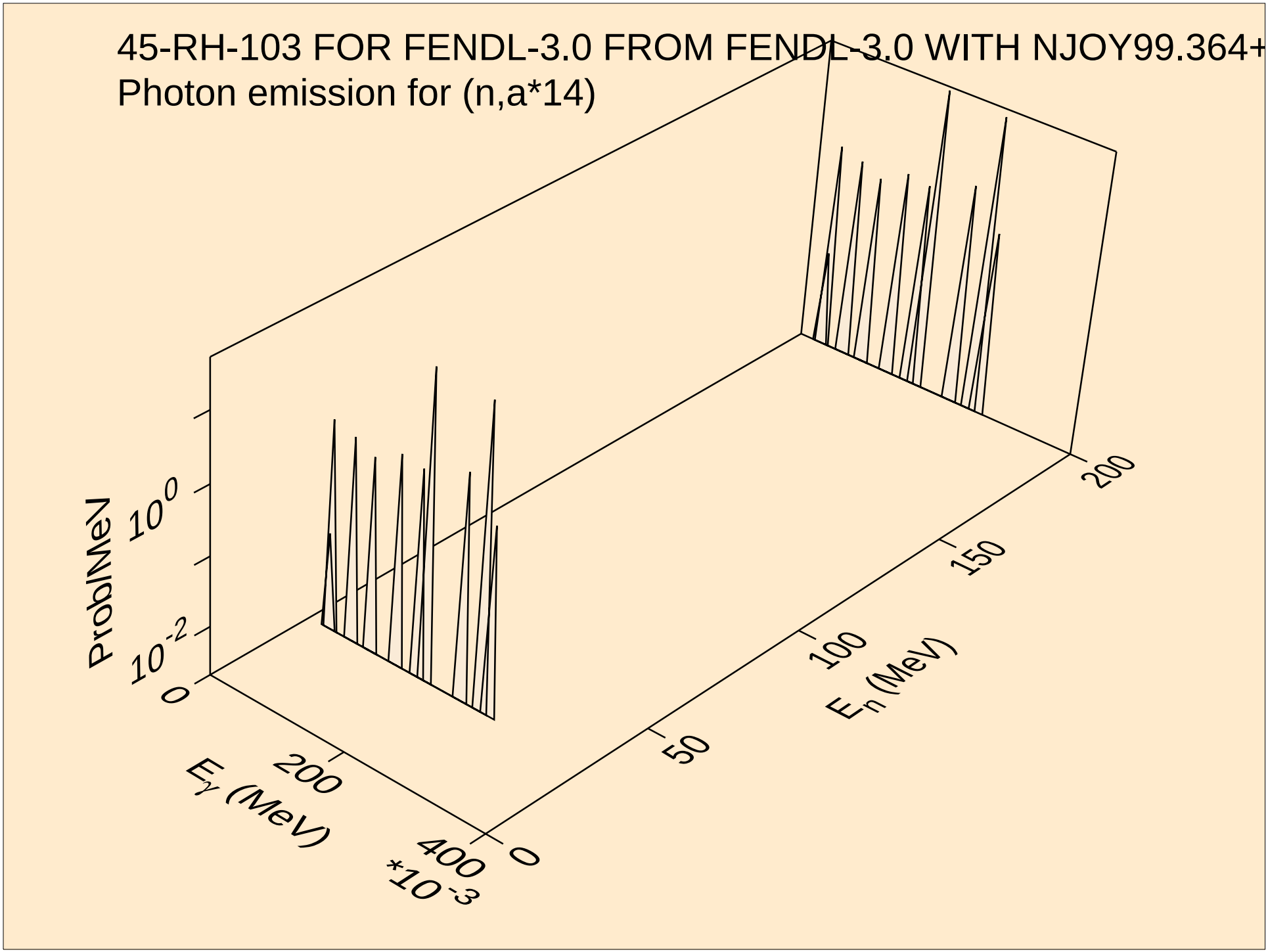

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*9)
Prob/MeV
10^0
10^-2
0
100
200
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

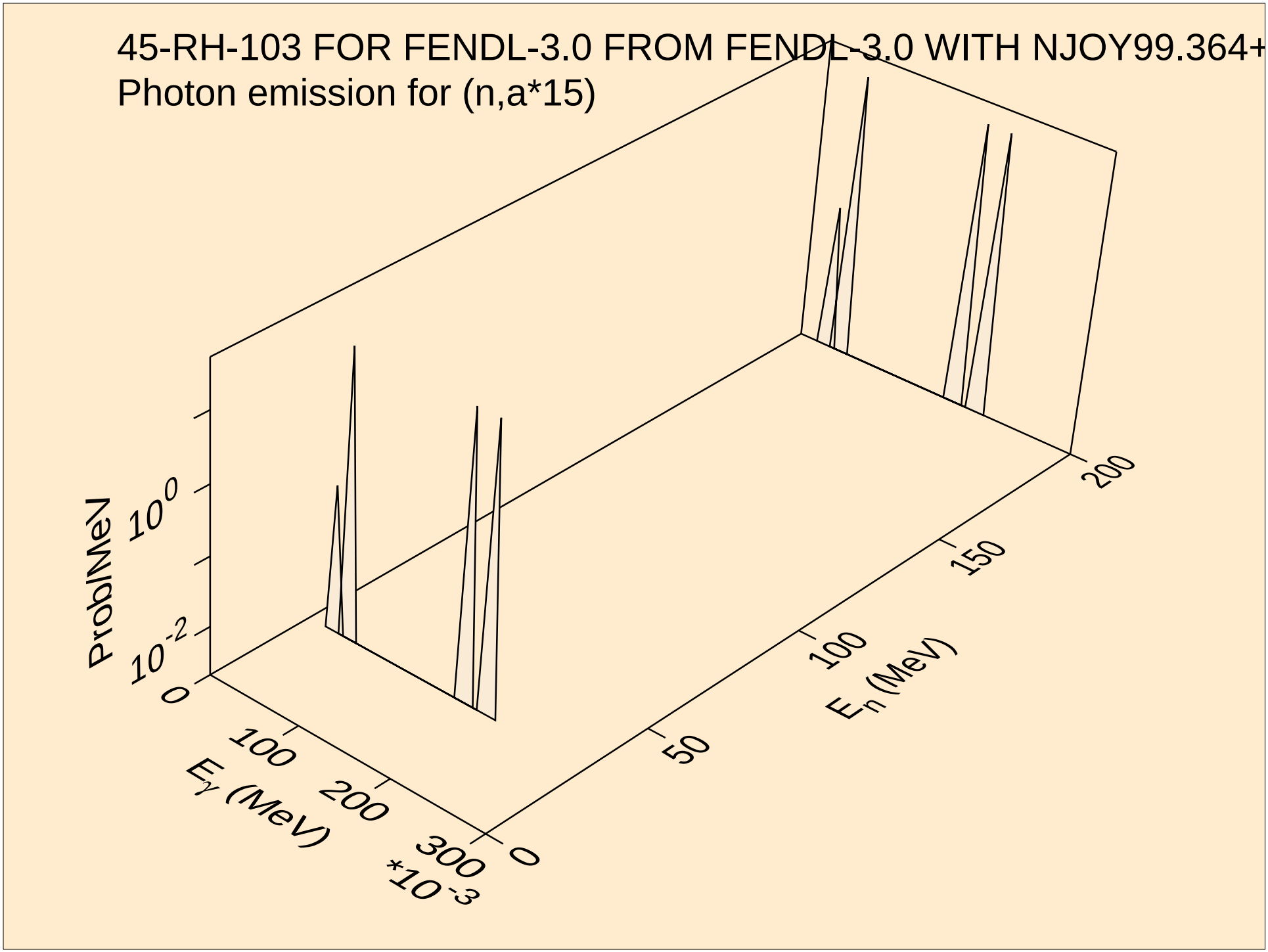

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*10)
Prob/MeV
10^0
10^-2
100
200
300
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

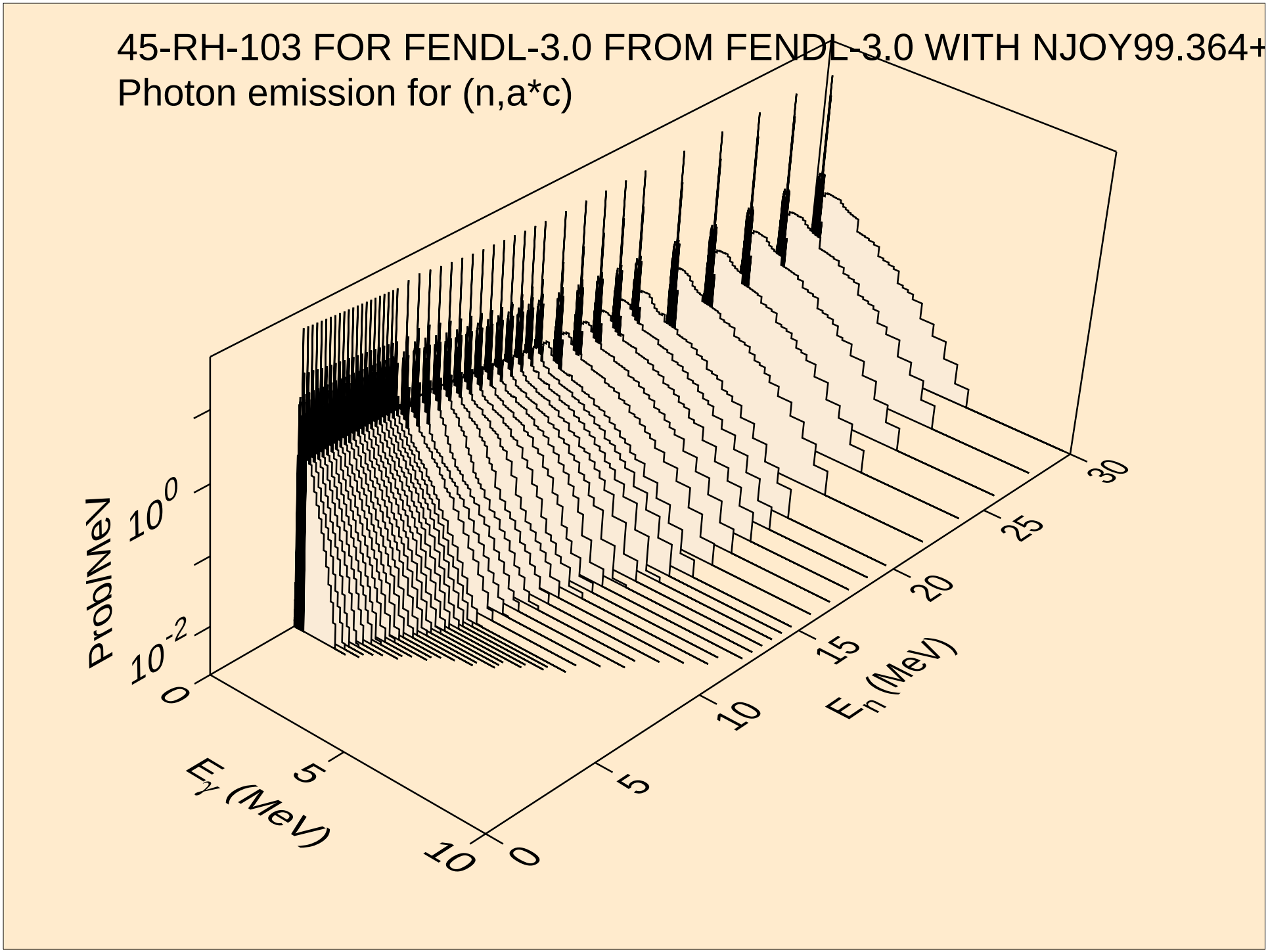

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*11)
Prob/MeV
10^0
10^-2
0
200
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

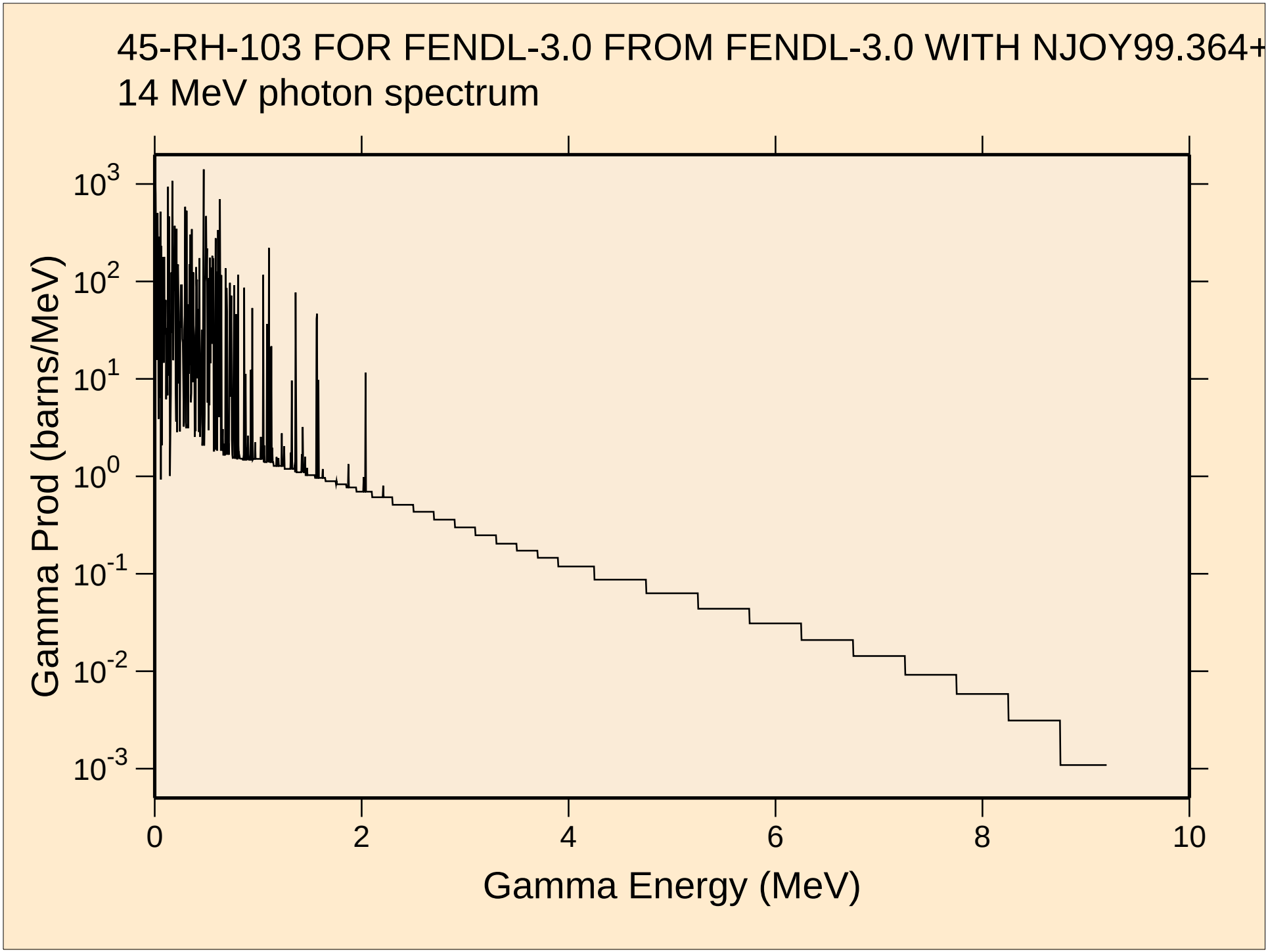

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*12)
Prob/MeV
10^0
10^-2
0
200
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

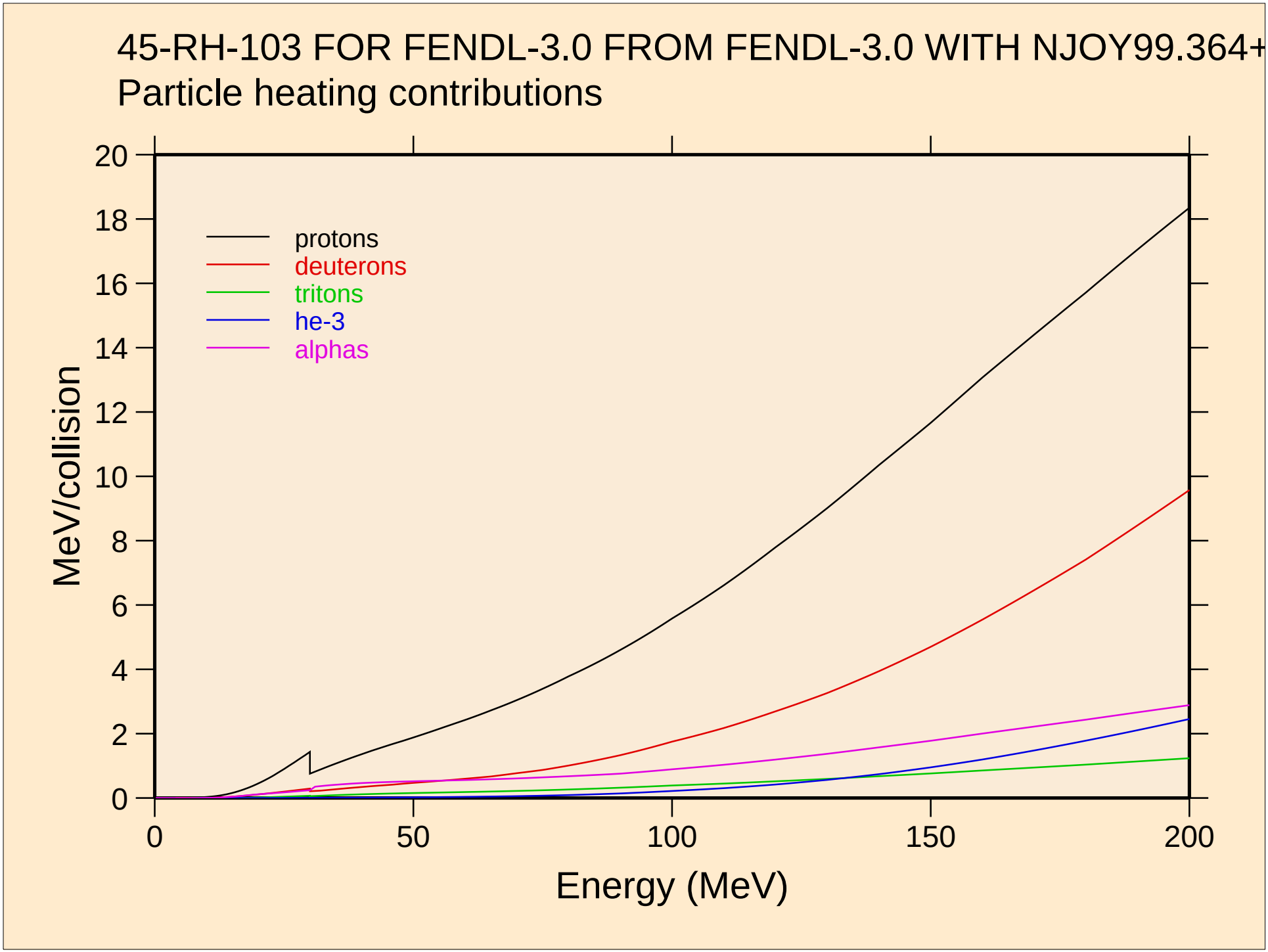

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*13)
Prob/MeV
10^0
10^-2
0
200
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

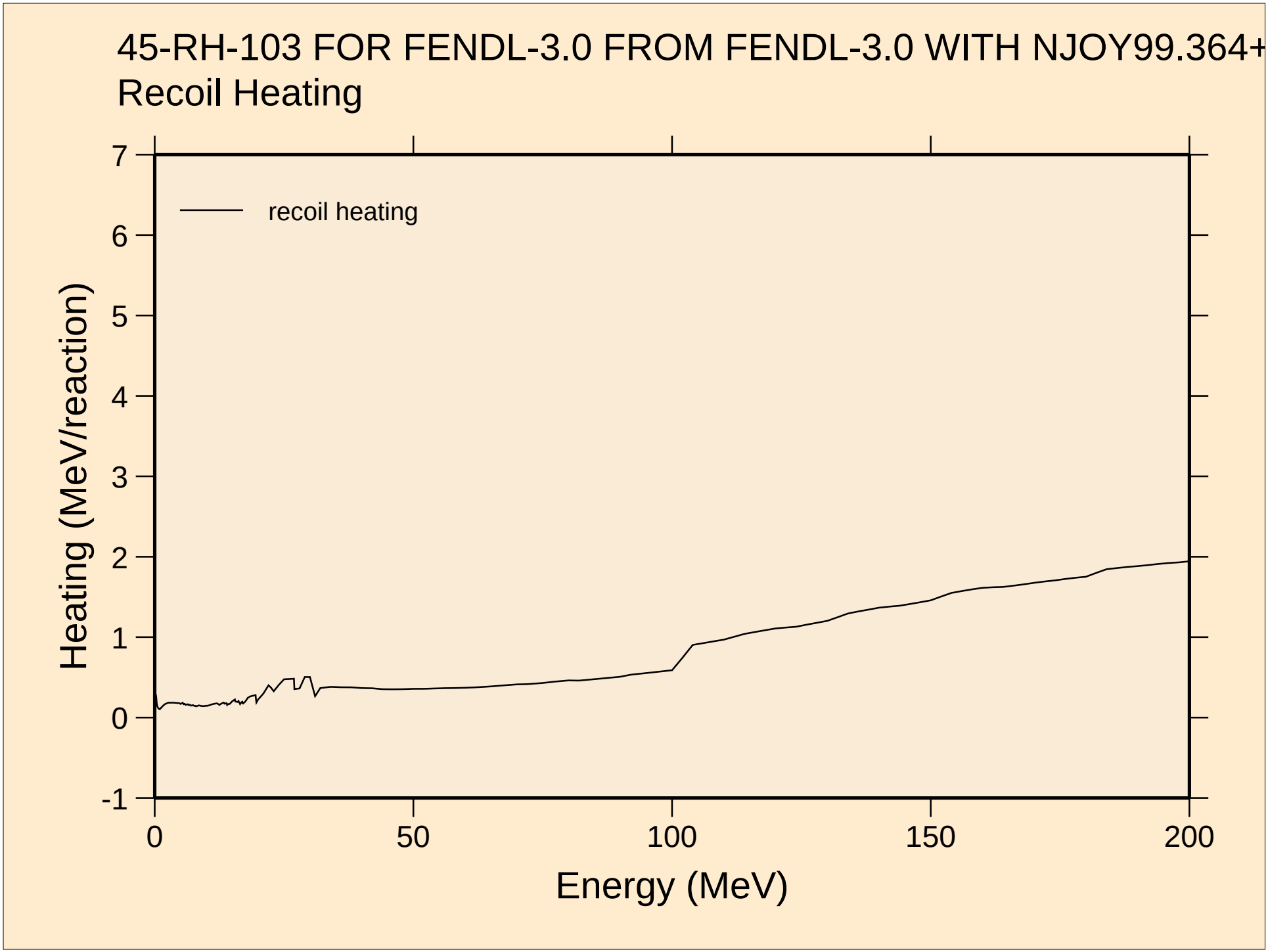

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*14)
Prob/MeV
10^0
10^-2
0
200
400
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

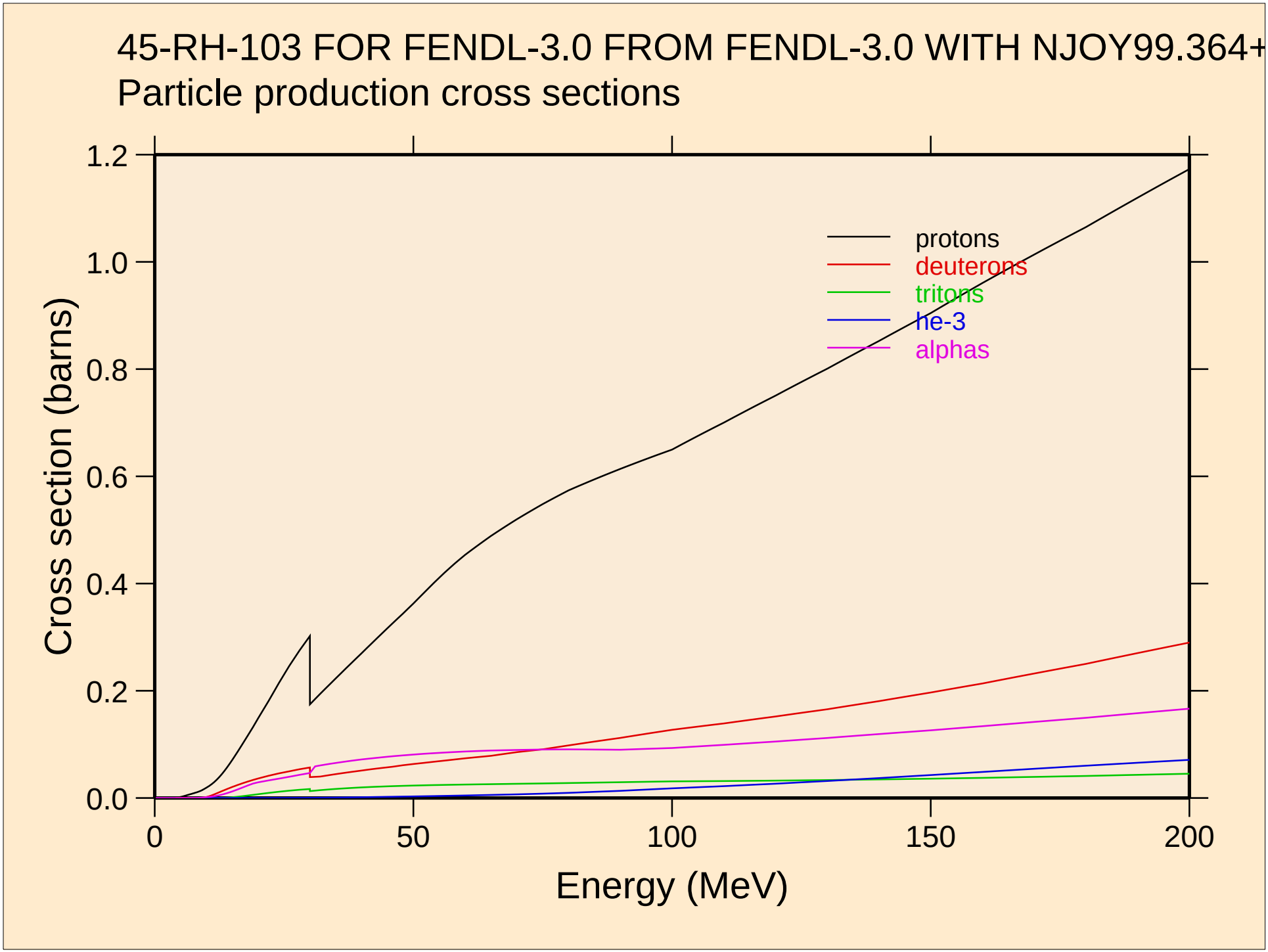

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*15)
Prob/MeV
10^0
10^-2
0
100
200
300
*10^-3
Eγ (MeV)
0
50
100
150
200
En (MeV)

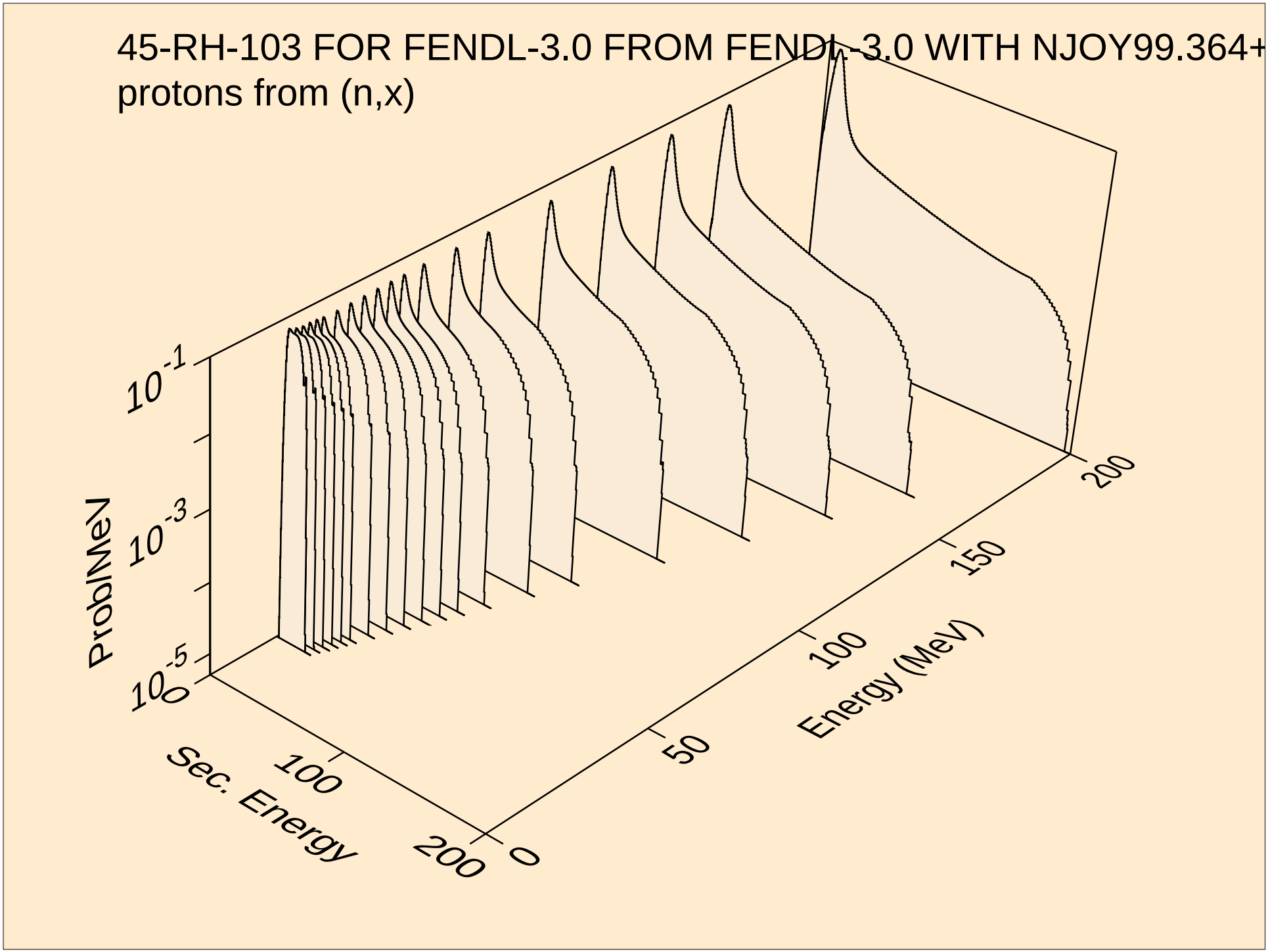

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Photon emission for (n,a*c)
Prob/MeV
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

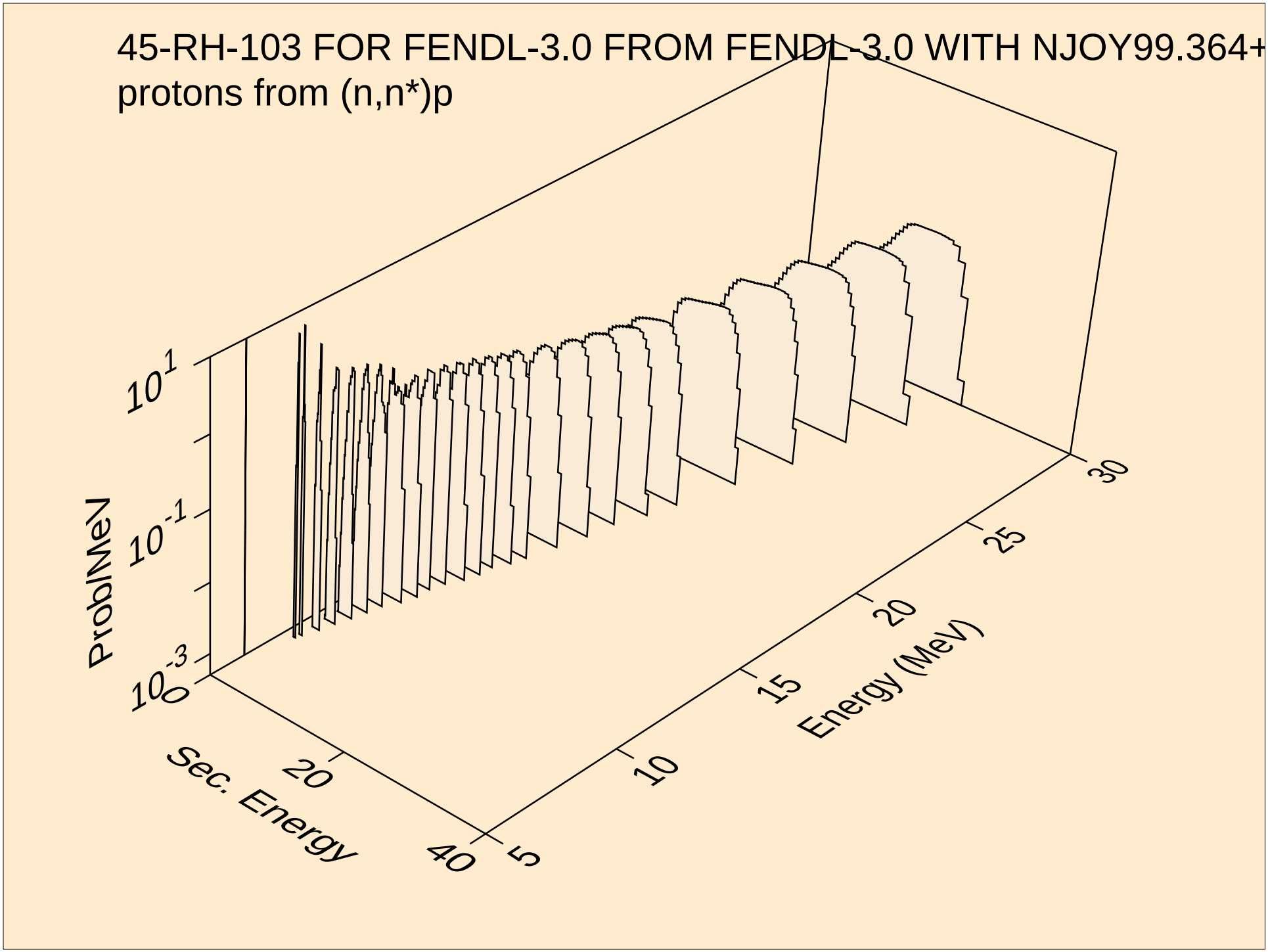

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
0
2
4
6
8
10
Gamma Energy (MeV)

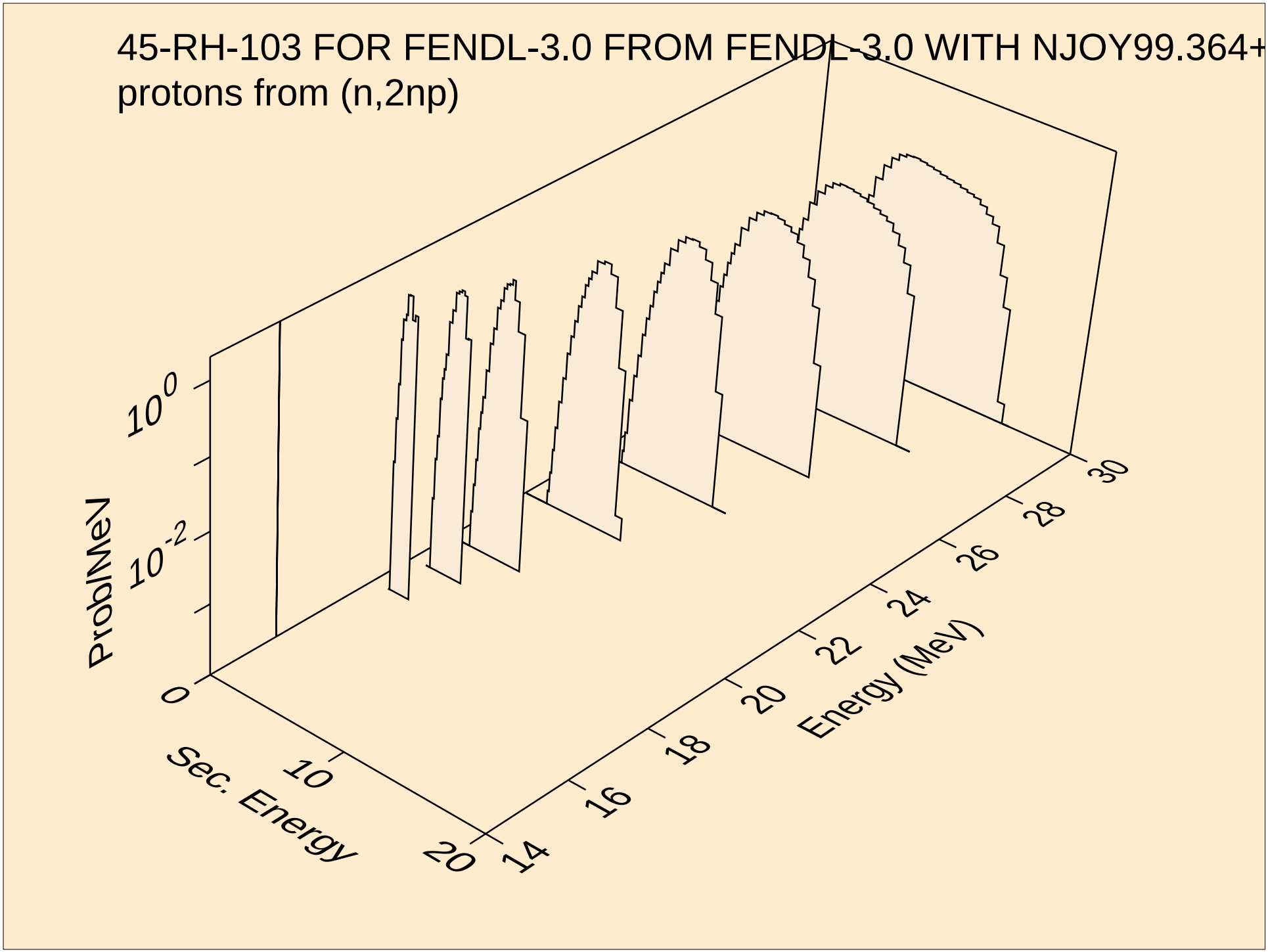

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Particle heating contributions
protons
deuterons
tritons
he-3
alphas
MeV/collision
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
20
0
50
100
150
200

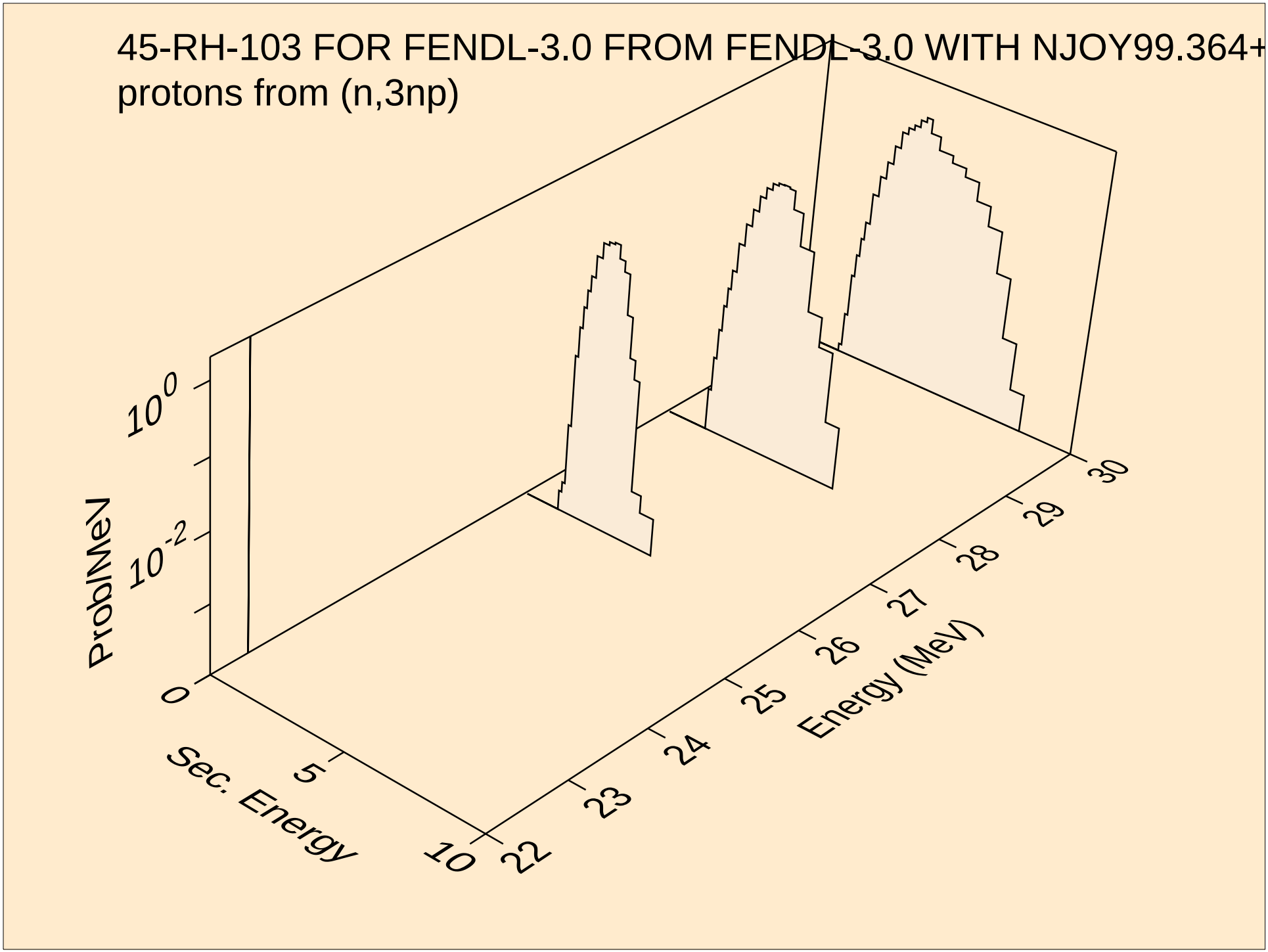

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
7
6
5
4
3
2
1
0
-1
0
50
100
150
200

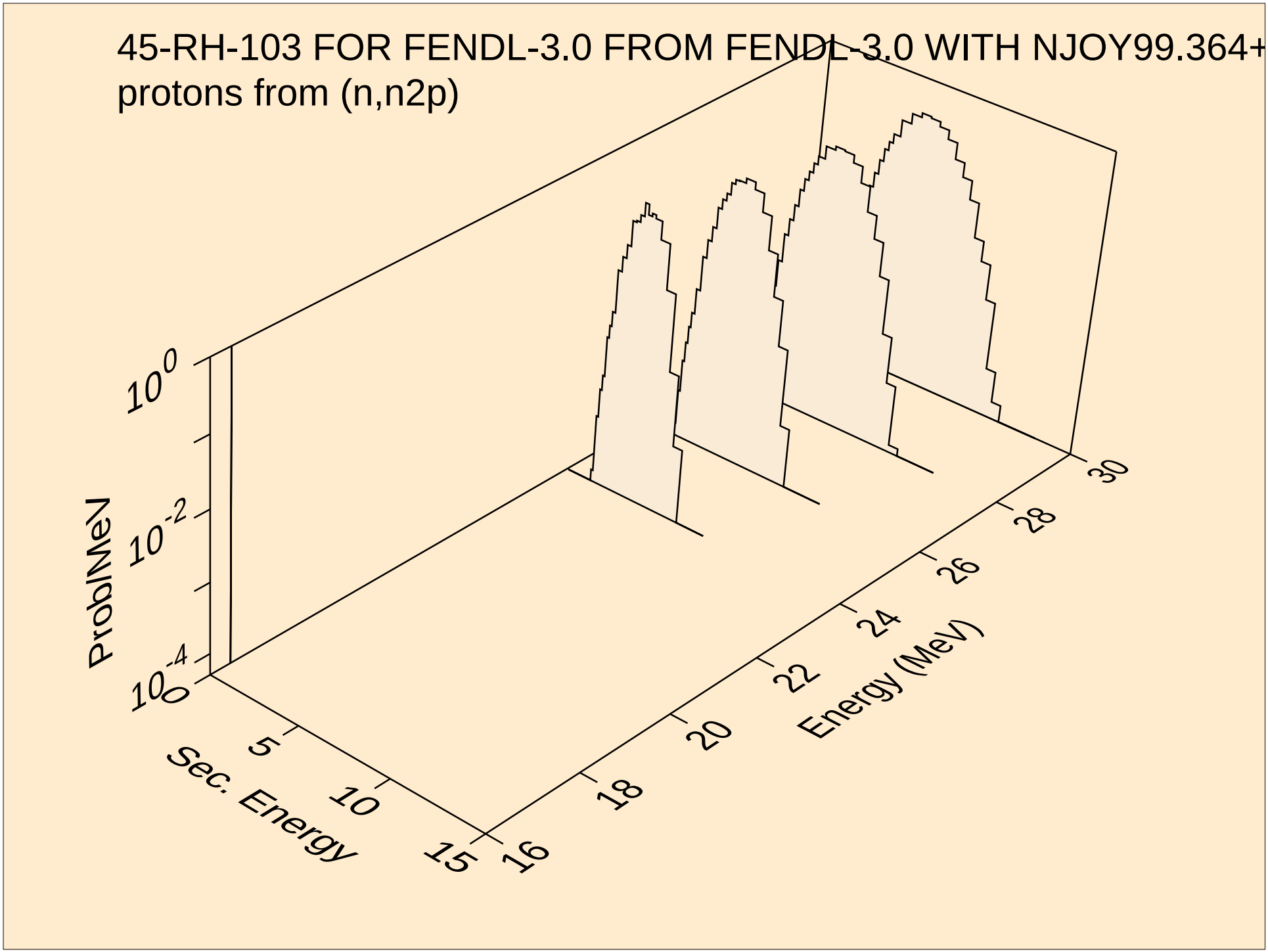

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
Particle production cross sections
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
50
100
150
200
protons
deuterons
tritons
he-3
alphas

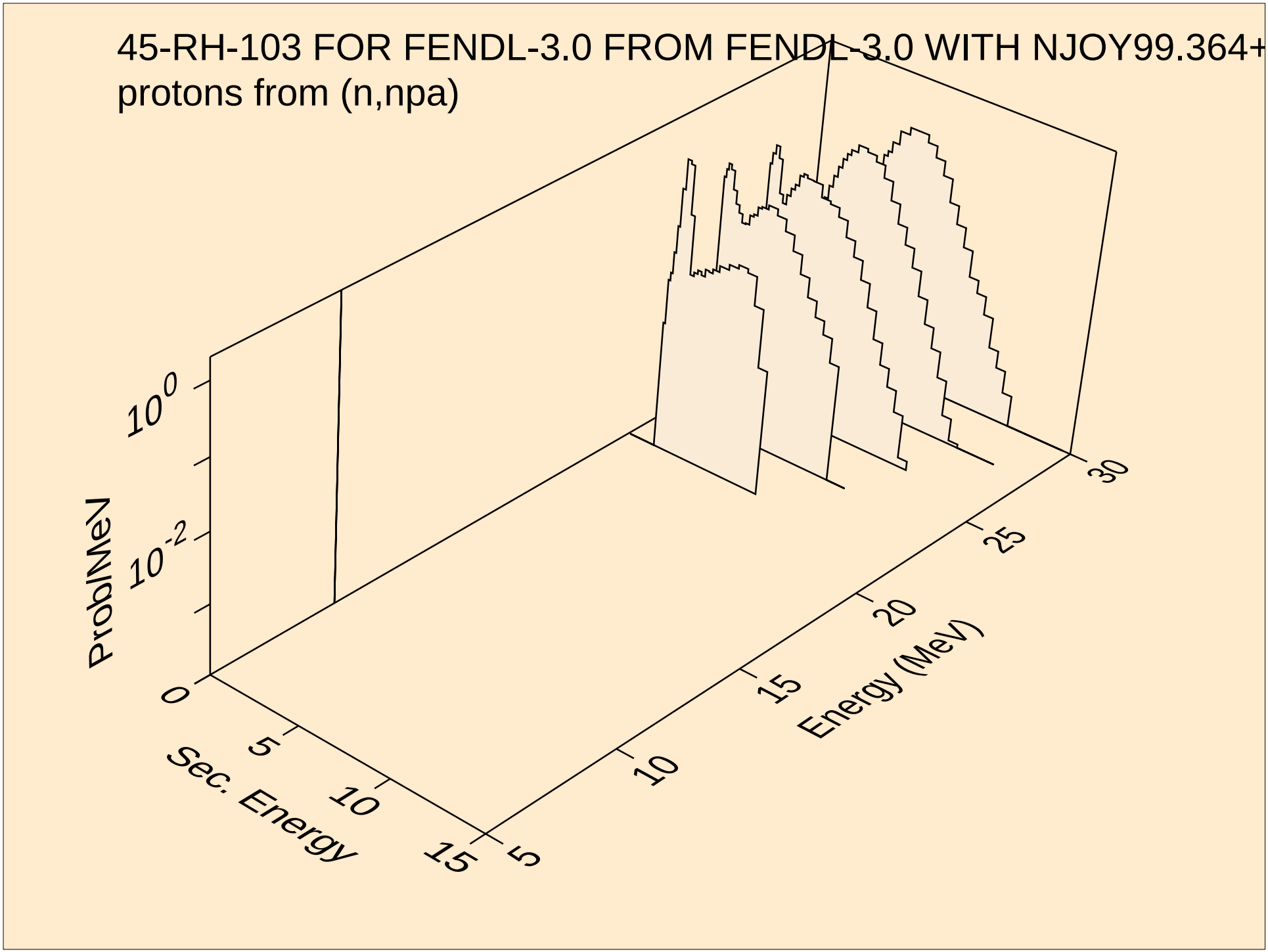

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,x)
Prob/MeV
10-1
10-3
10-5
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

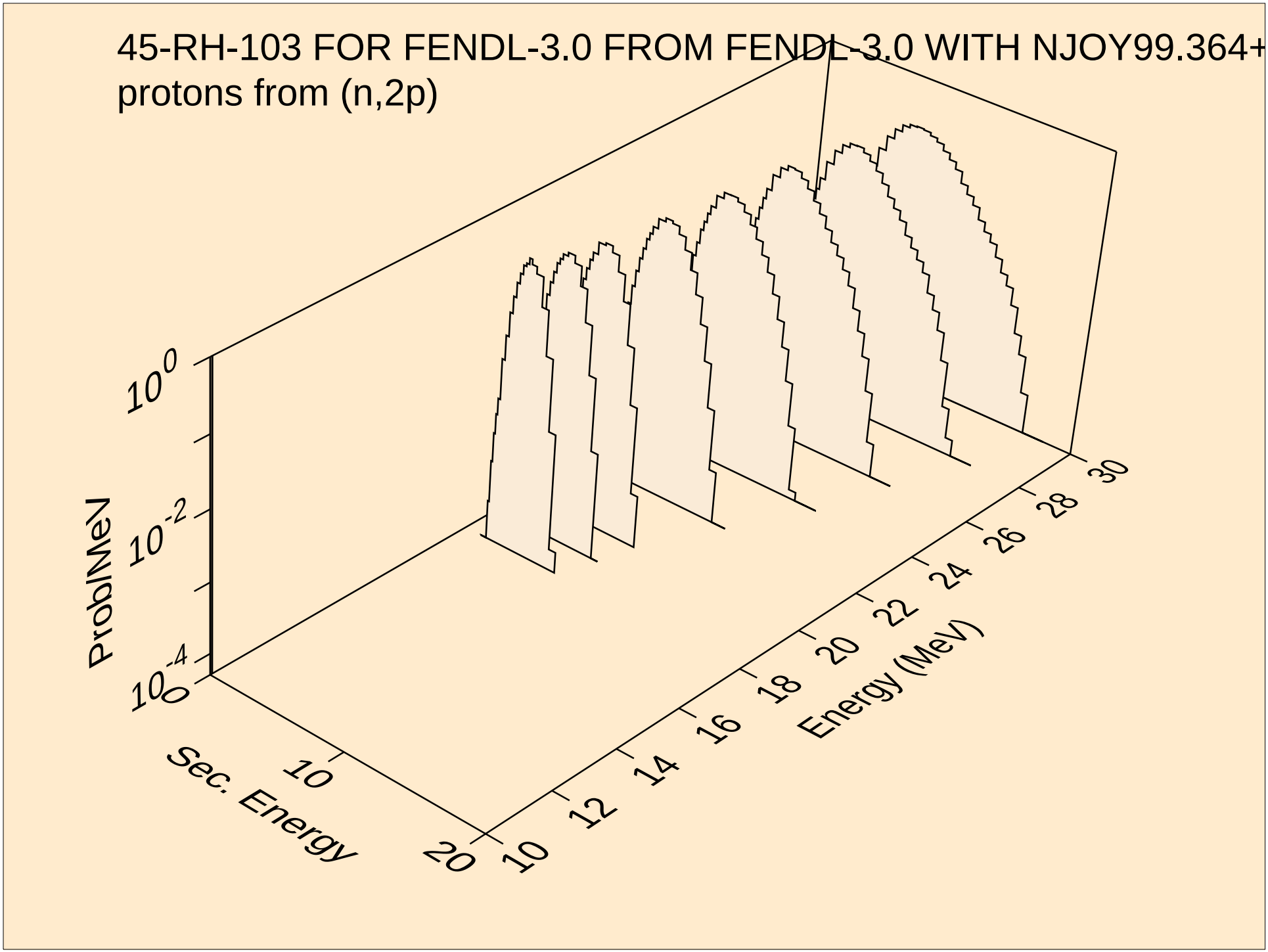

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,n*)p
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
20
40
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

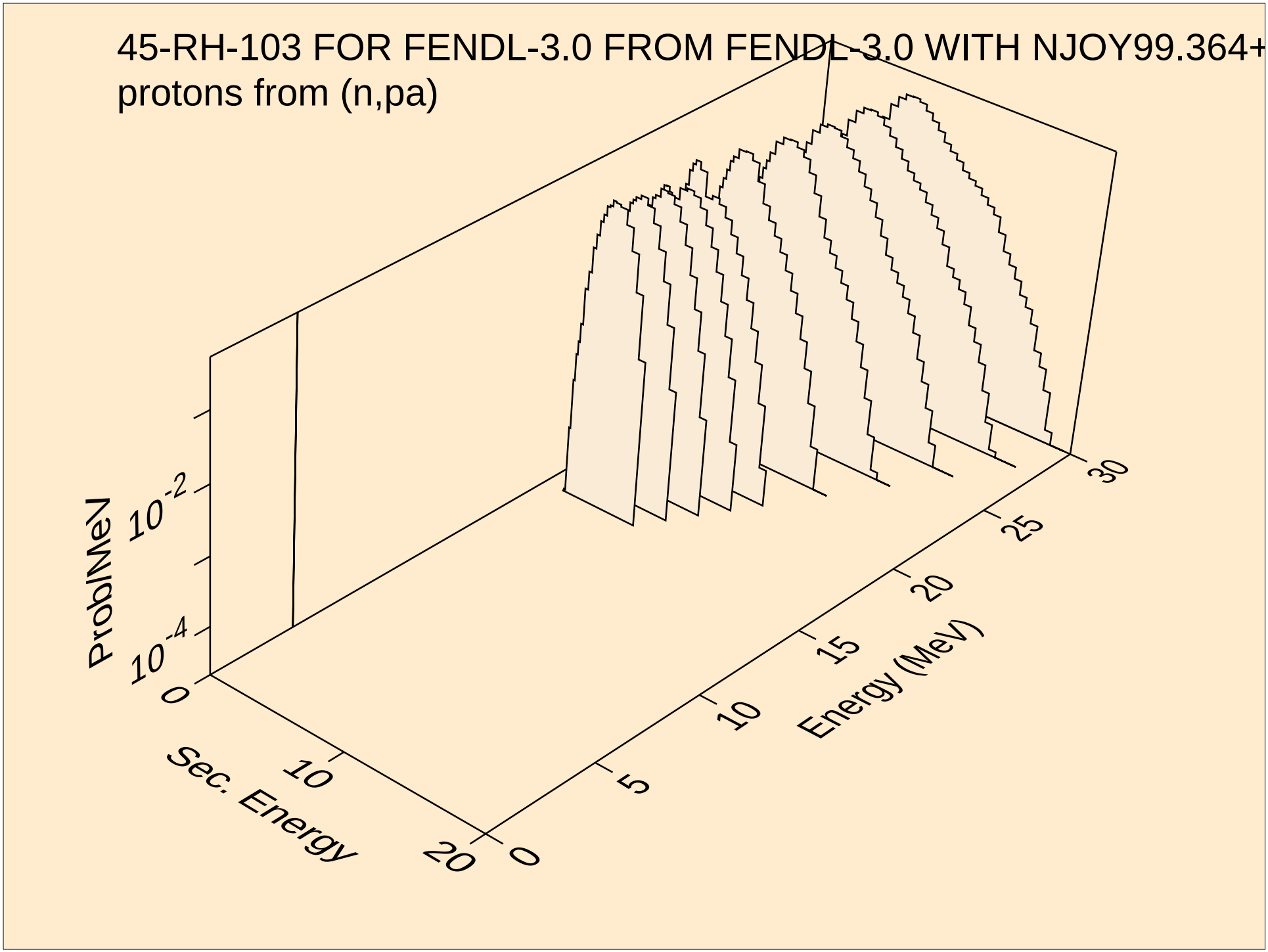

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,2np)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
14
16
18
20
22
24
26
28
30
Energy (MeV)

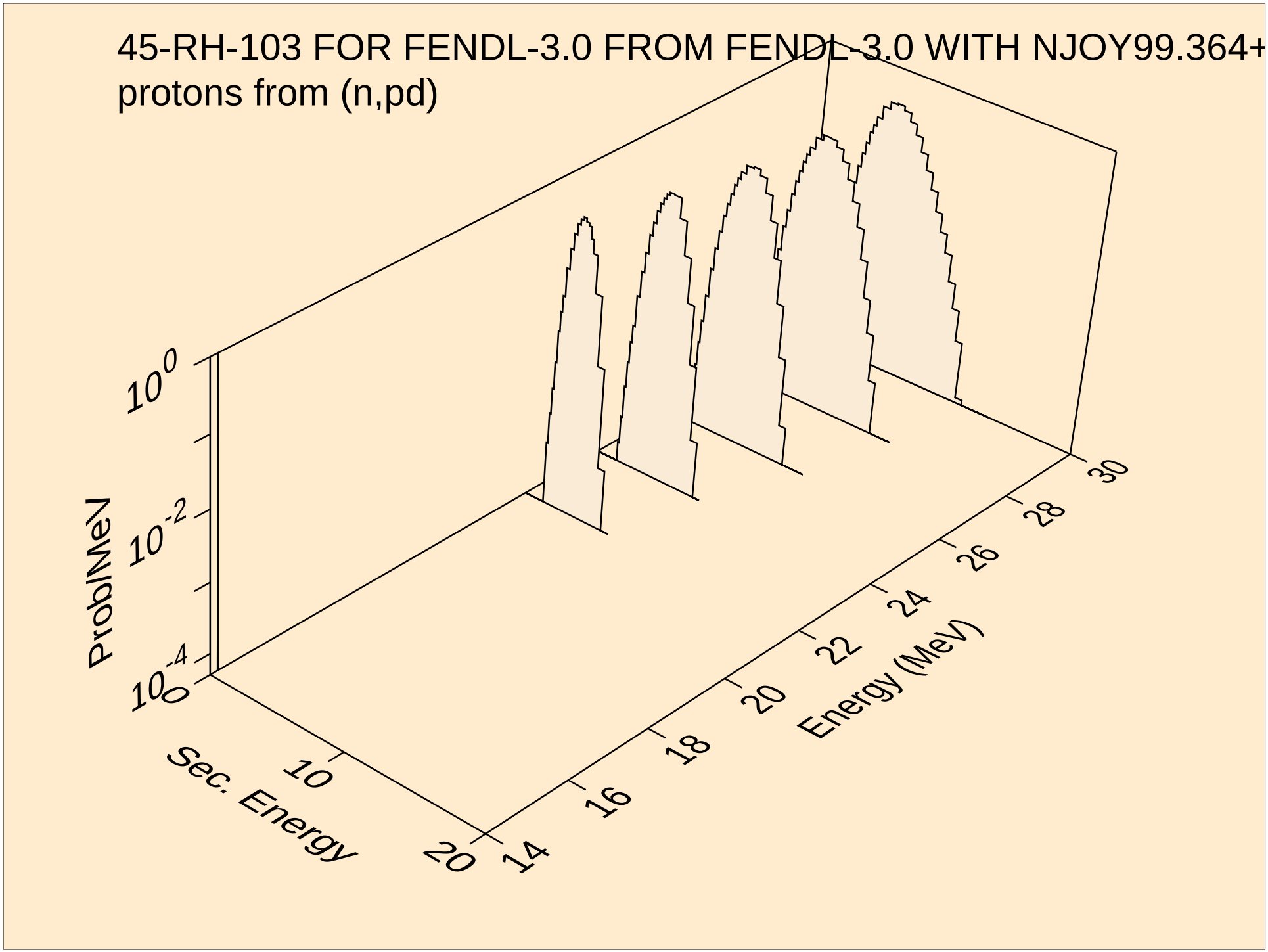

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,3np)
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
Energy (MeV)
22
23
24
25
26
27
28
29
30

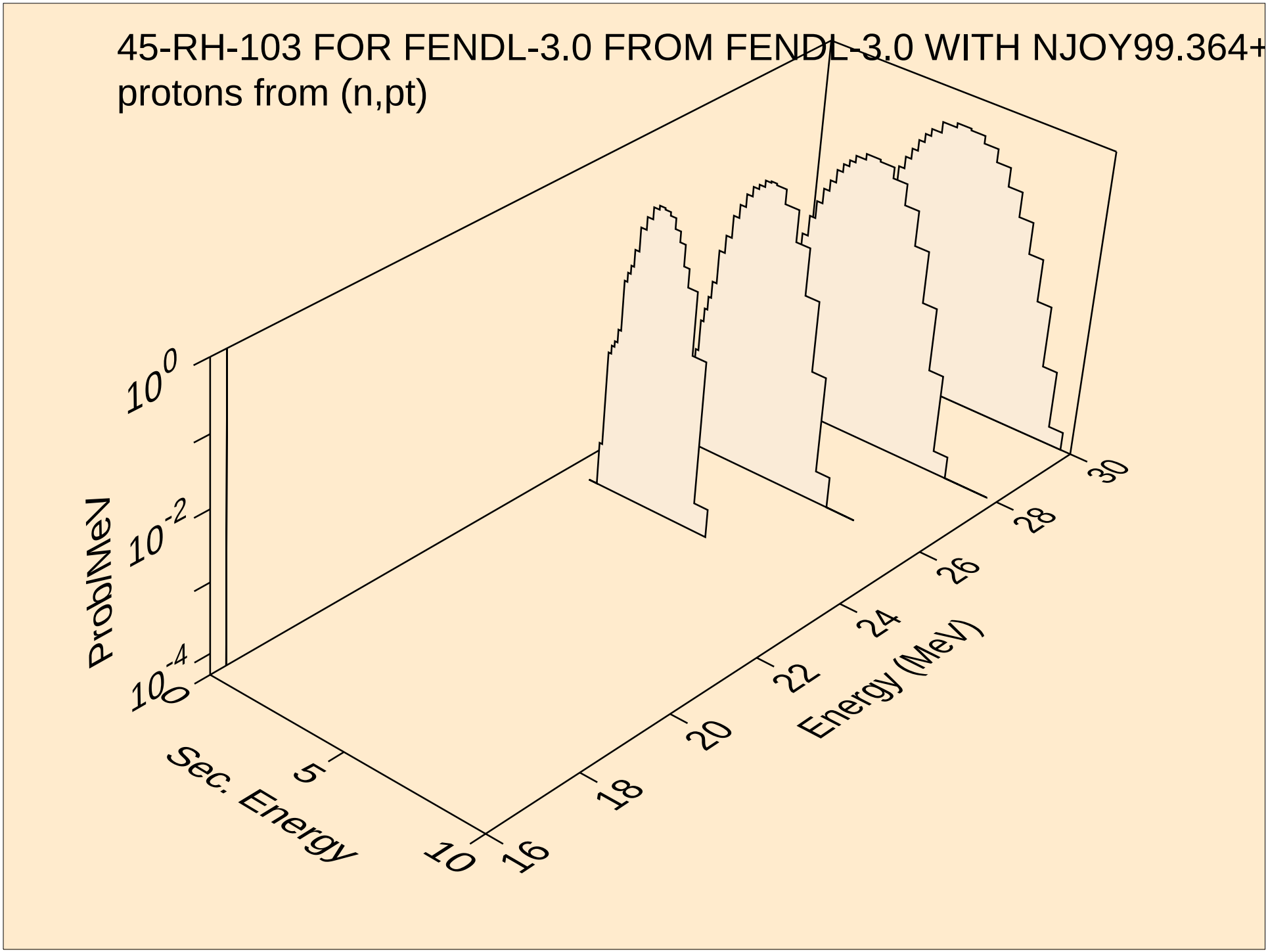

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,n2p)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
5
10
15
Sec. Energy
16
18
20
22
24
26
28
30
Energy (MeV)

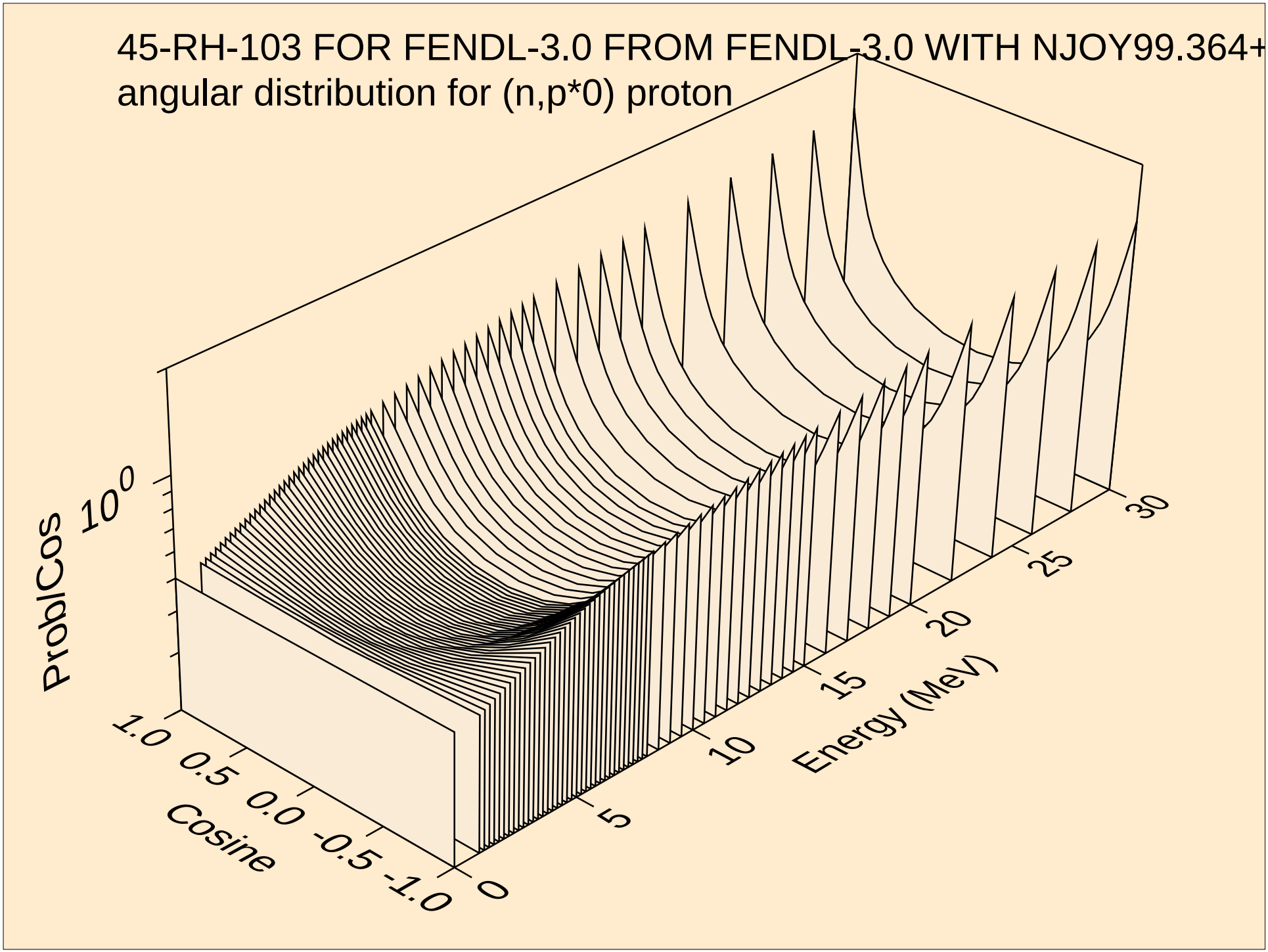

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,npa)
Prob/MeV
10^0
10^-2
0
5
10
15
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

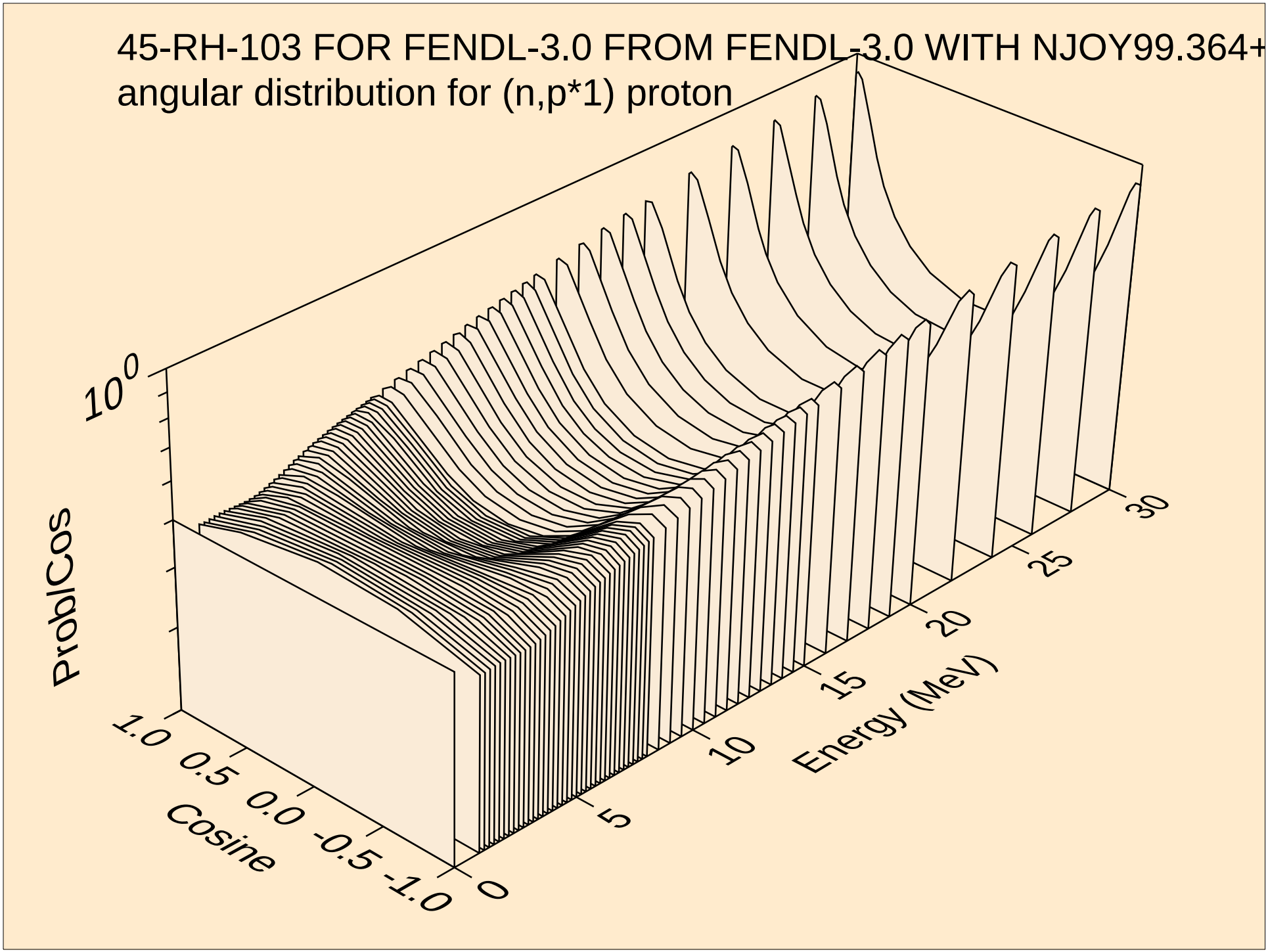

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,2p)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
Sec. Energy
10
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

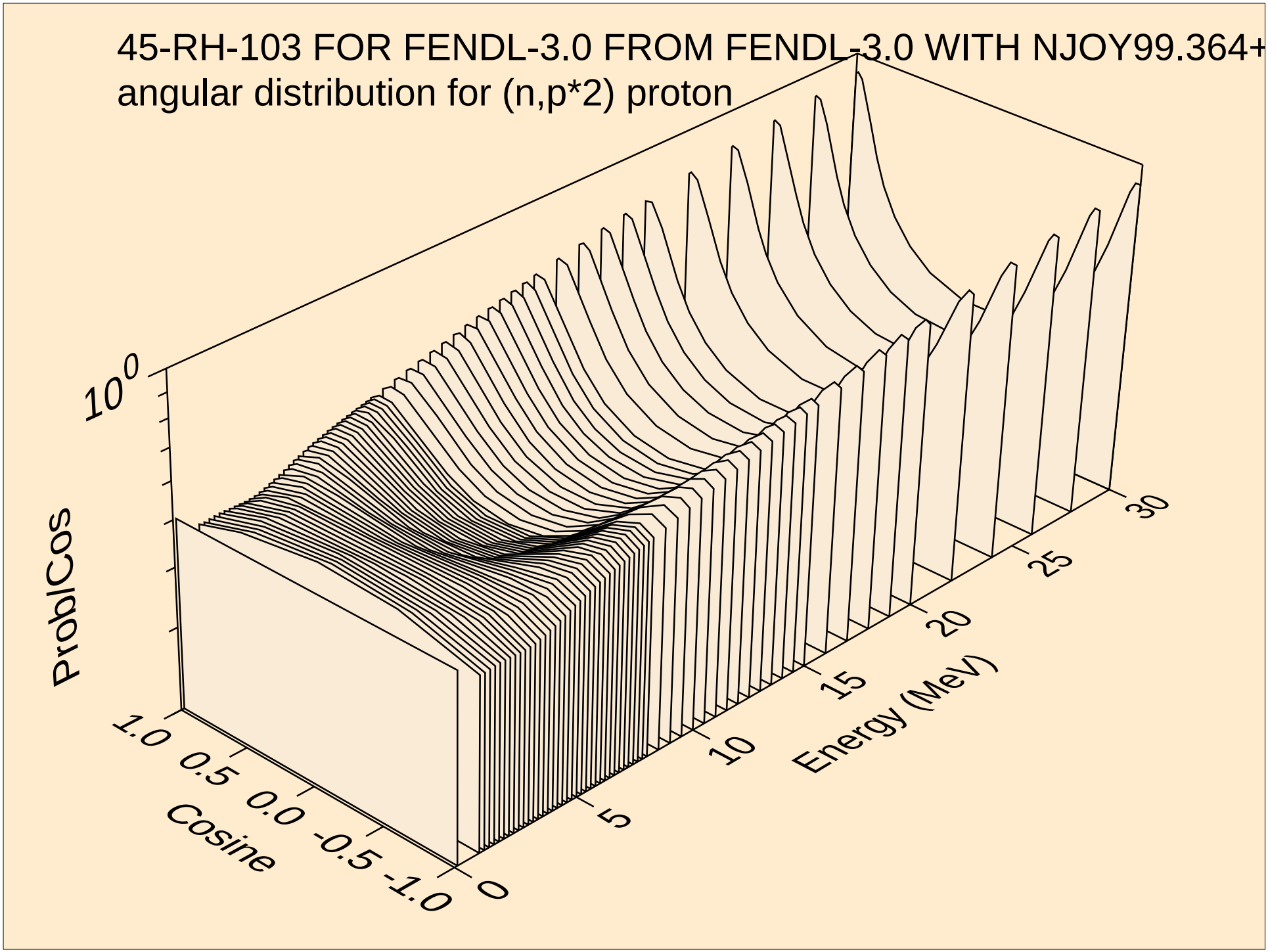

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,pa)
Prob/MeV
10-2
10-4
0
Sec. Energy
10
20
0
5
10
15
20
25
30
Energy (MeV)

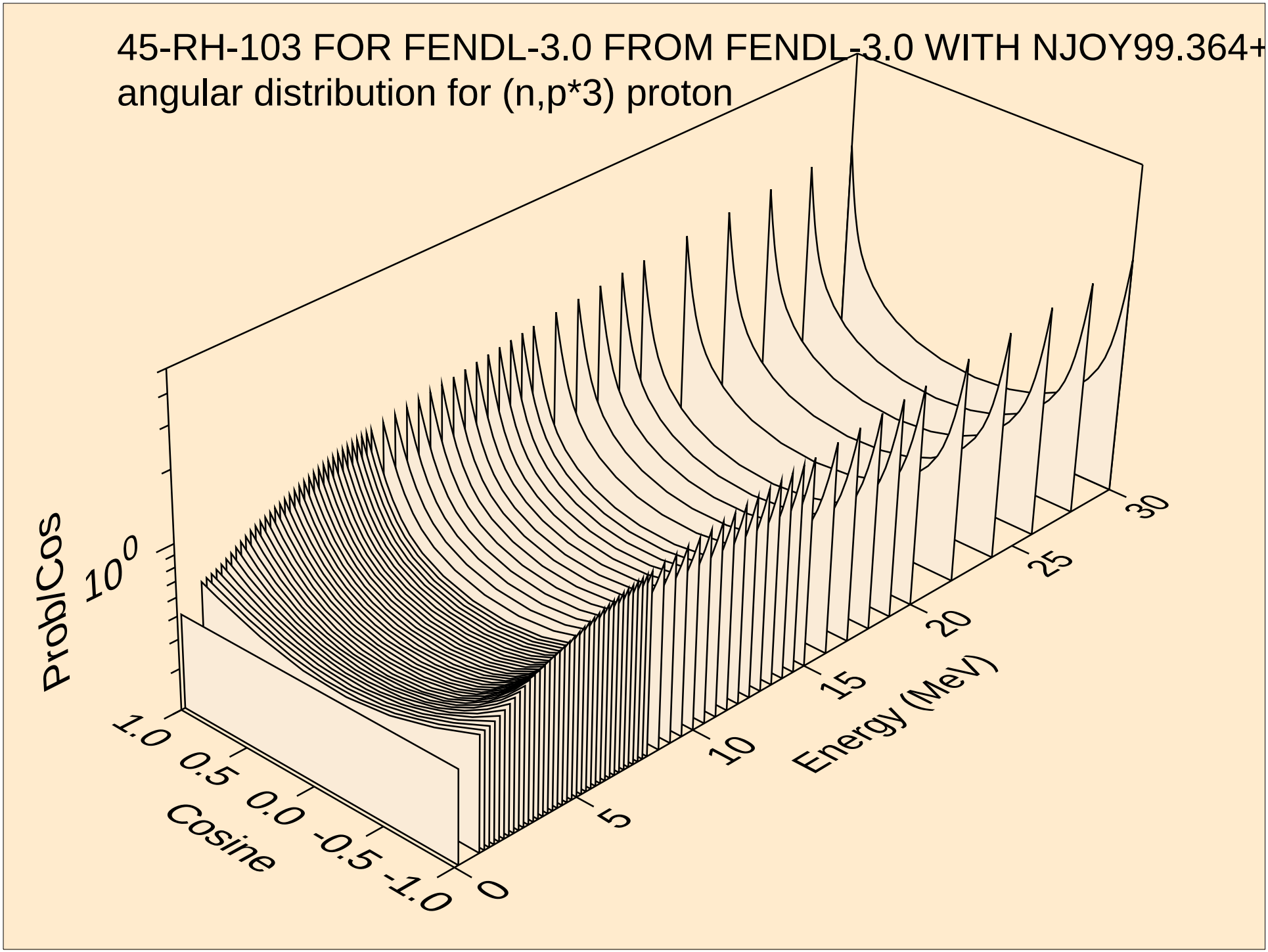

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,pd)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

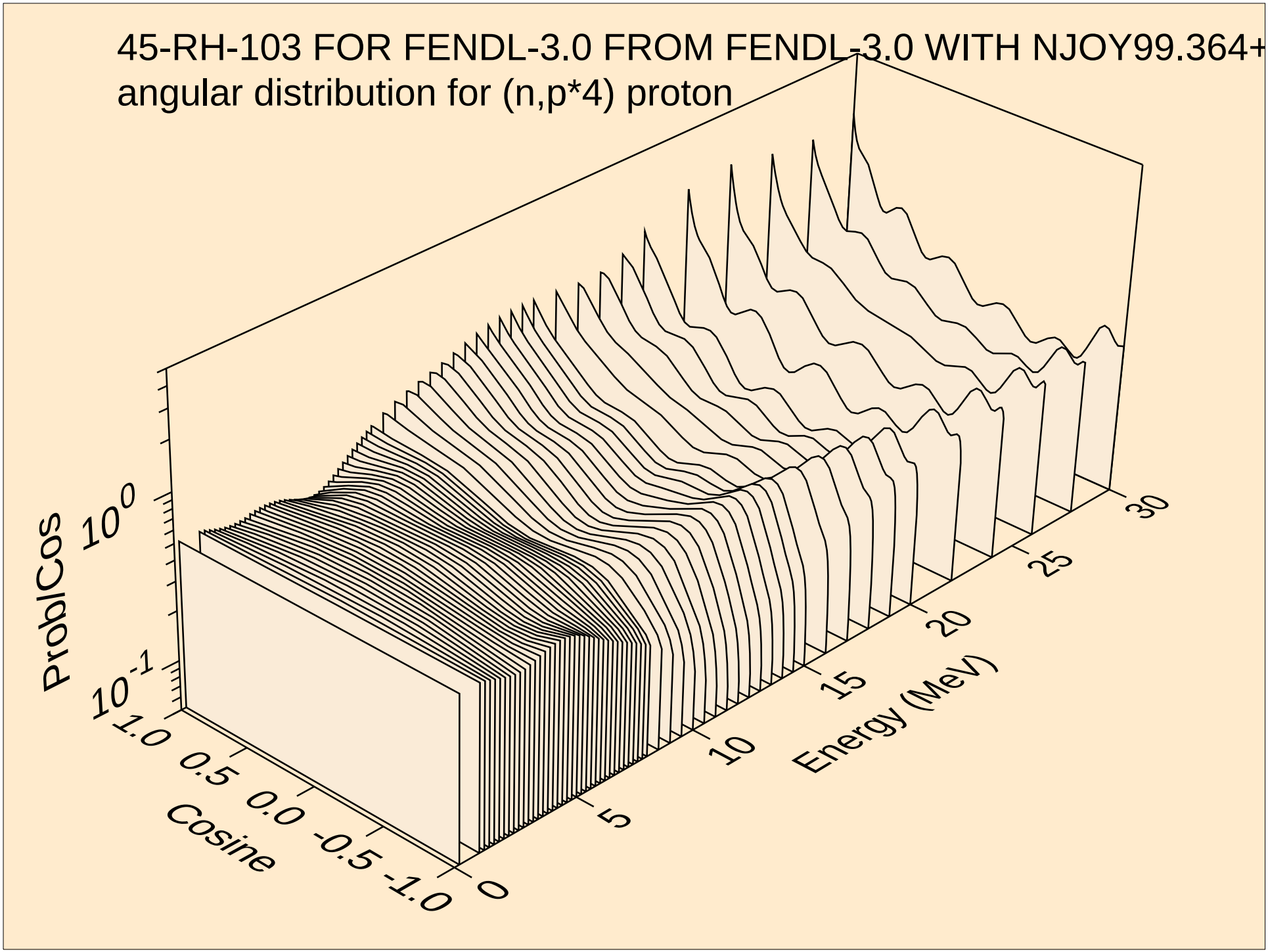

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,pt)
Prob/MeV
10^0
10^-2
10^-4
0
Sec. Energy
5
10
16
18
20
22
24
26
28
30
Energy (MeV)

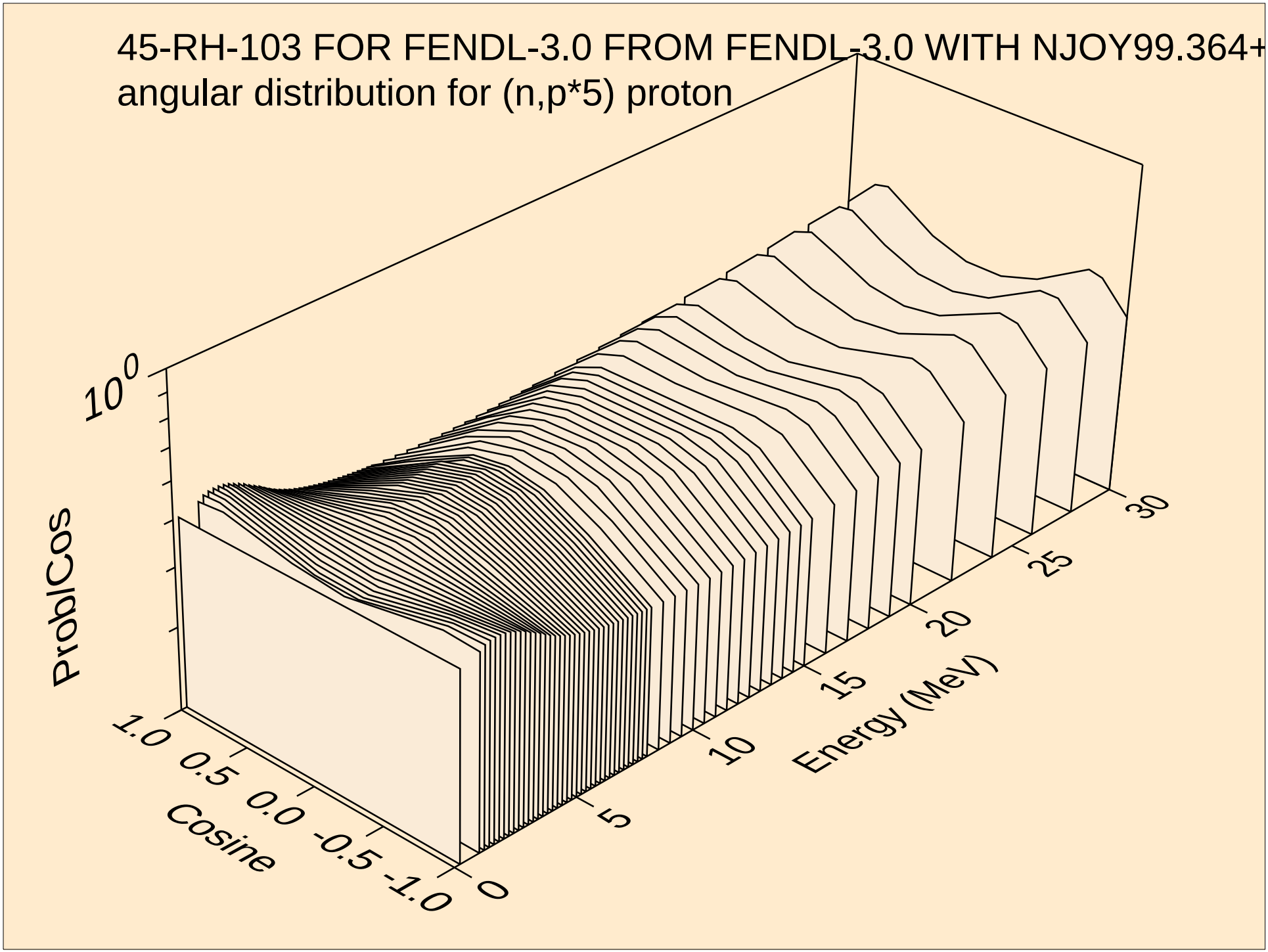

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*0) proton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

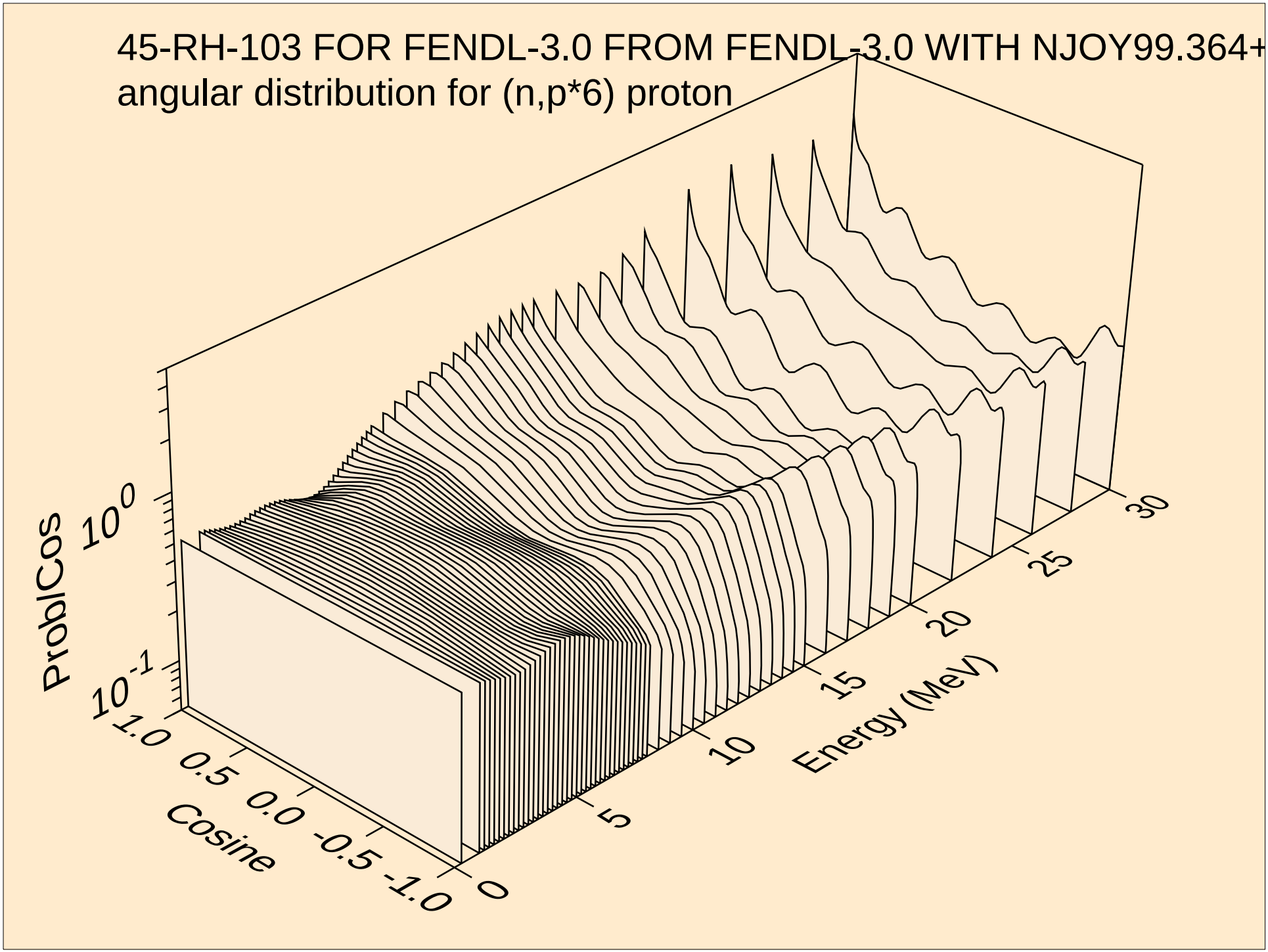

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*1) proton
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

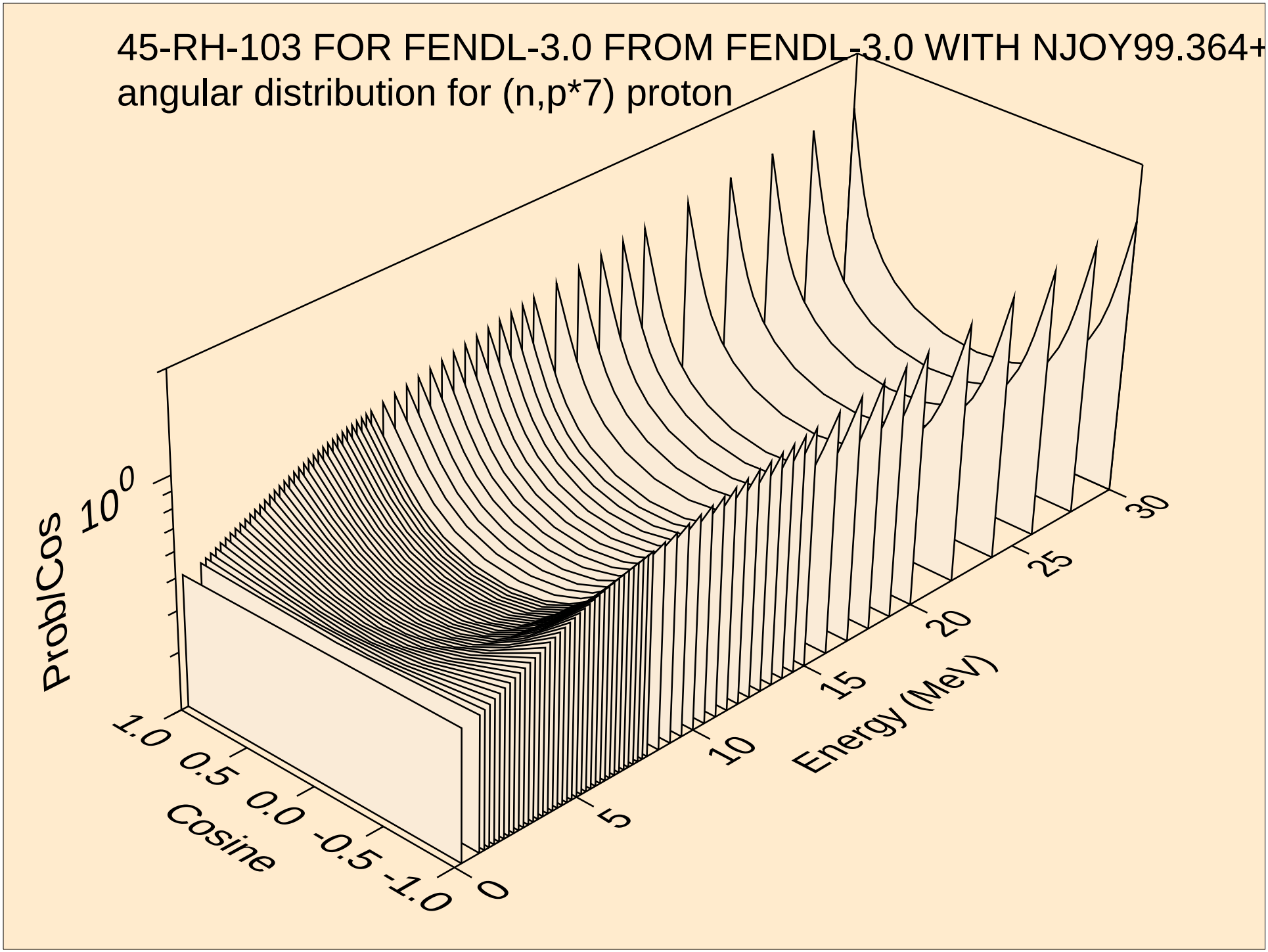

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*2) proton
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

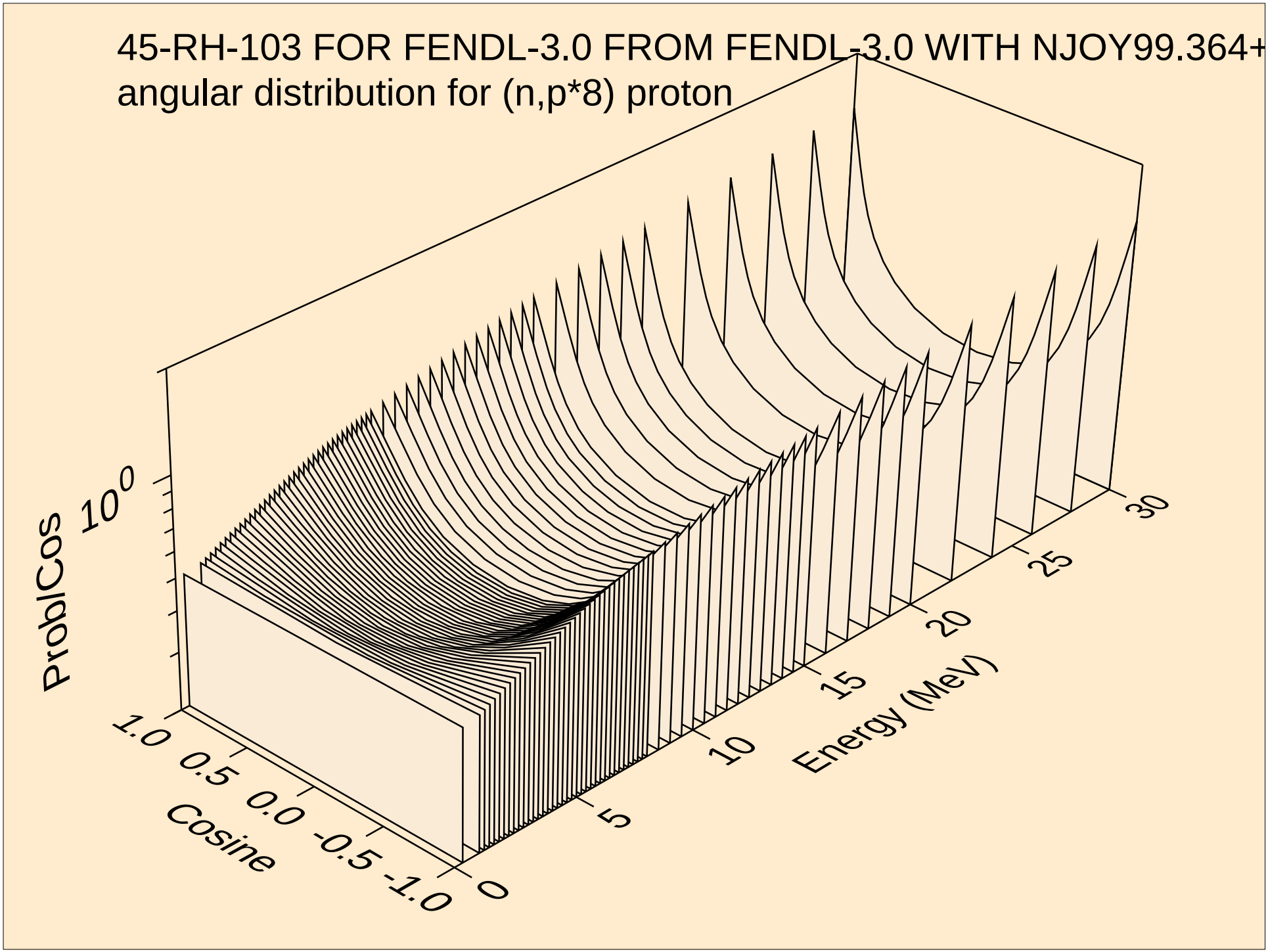

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*3) proton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

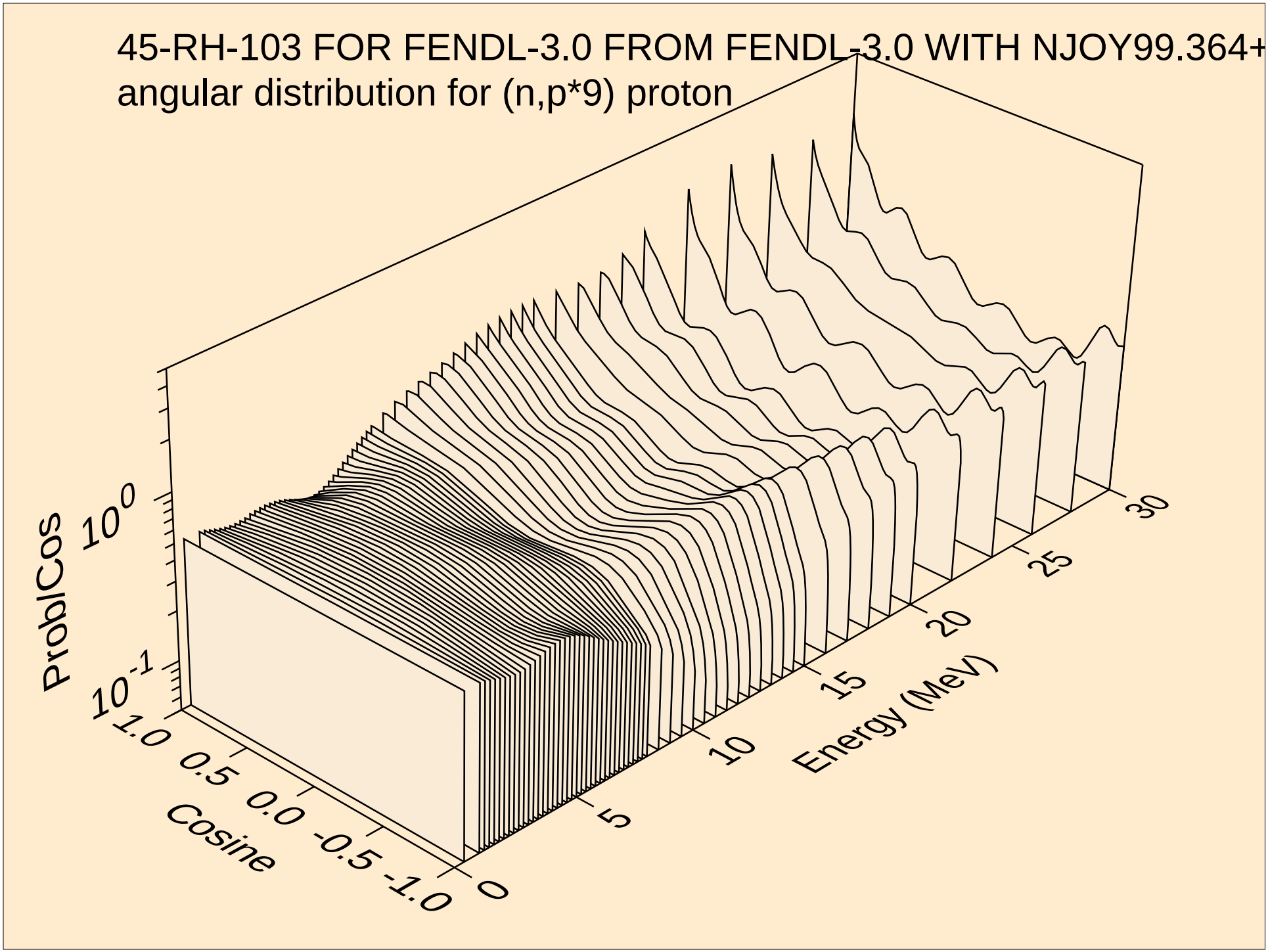

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*4) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

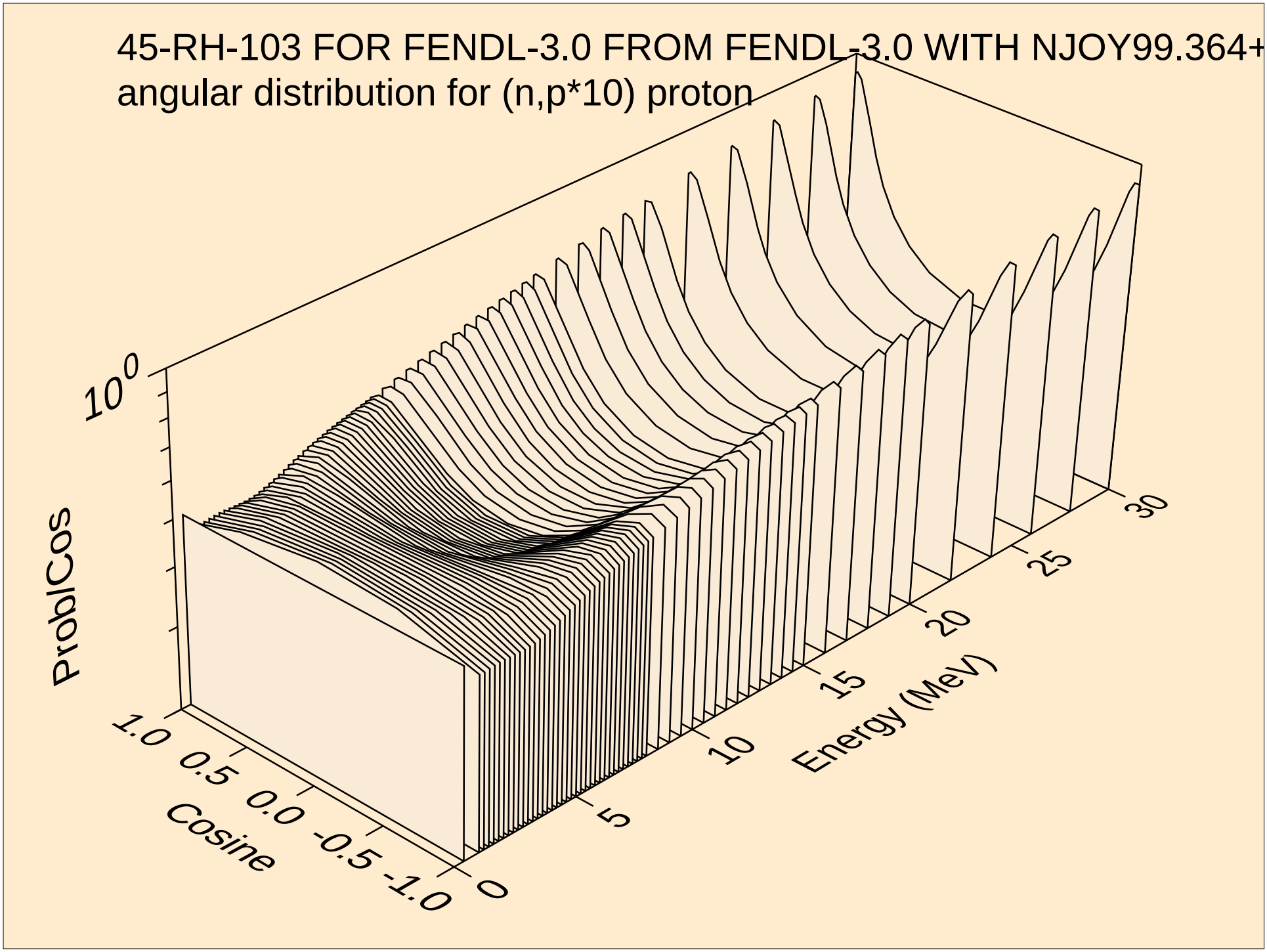

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*5) proton
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

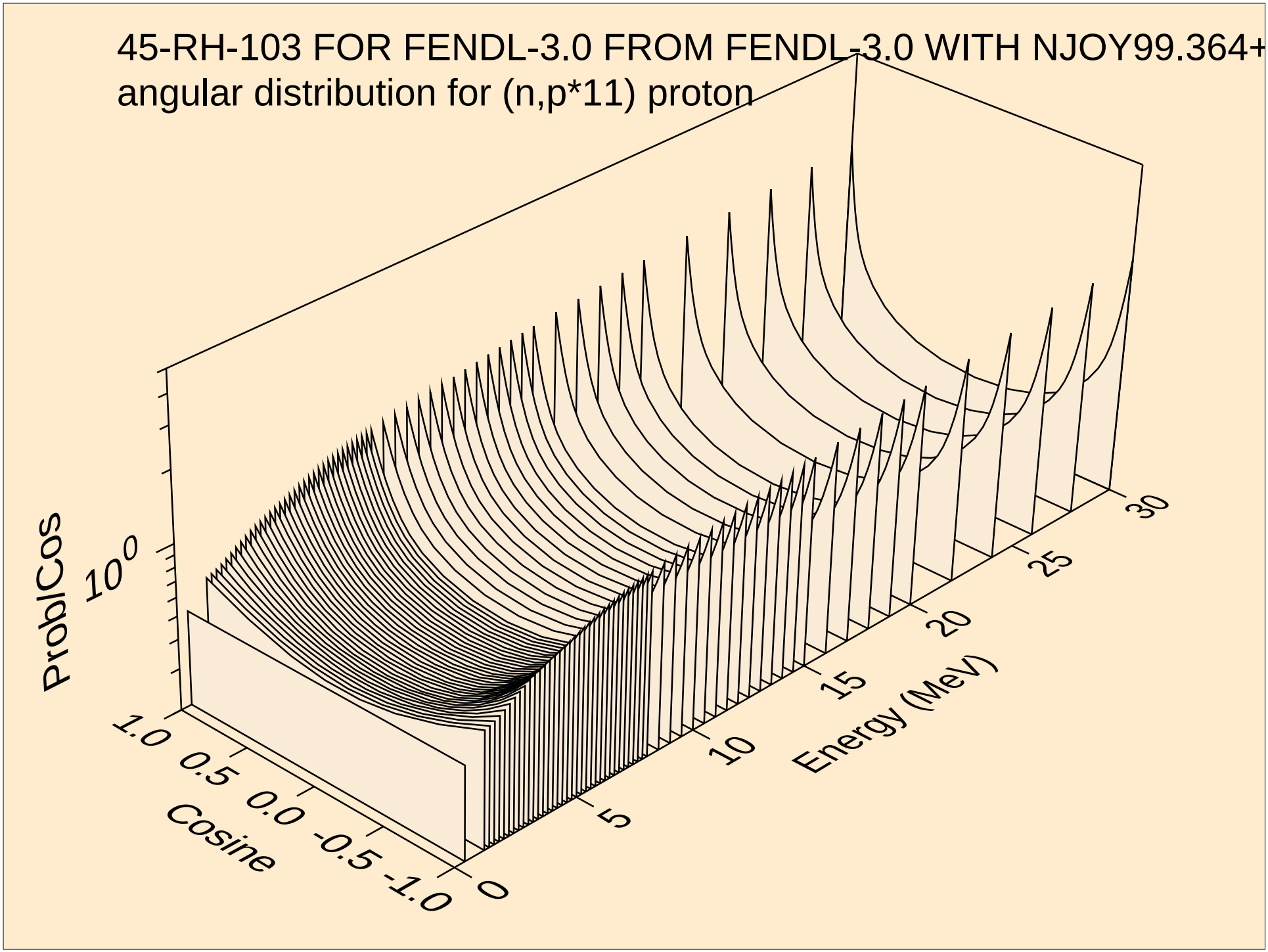

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*6) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

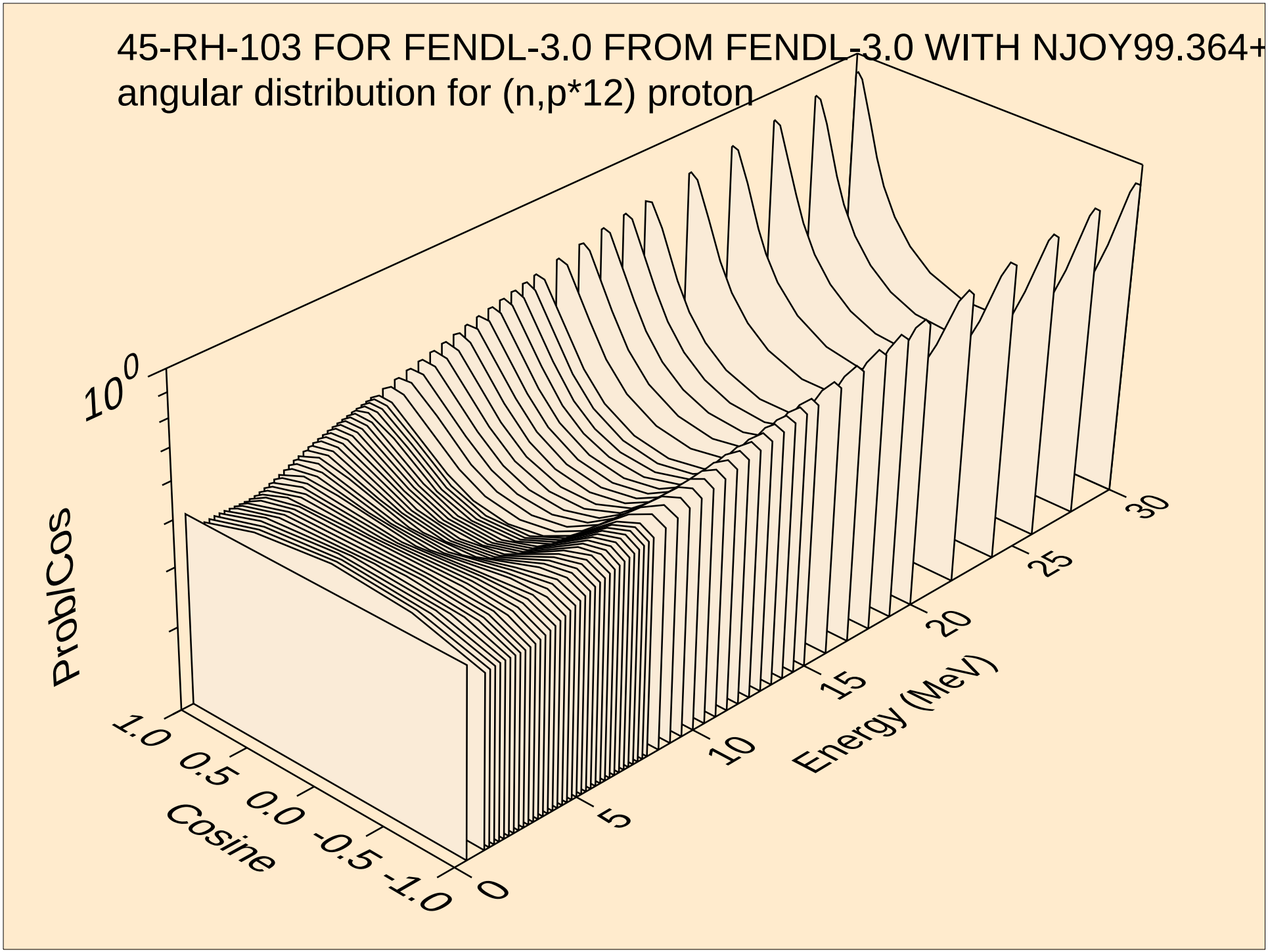

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*7) proton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

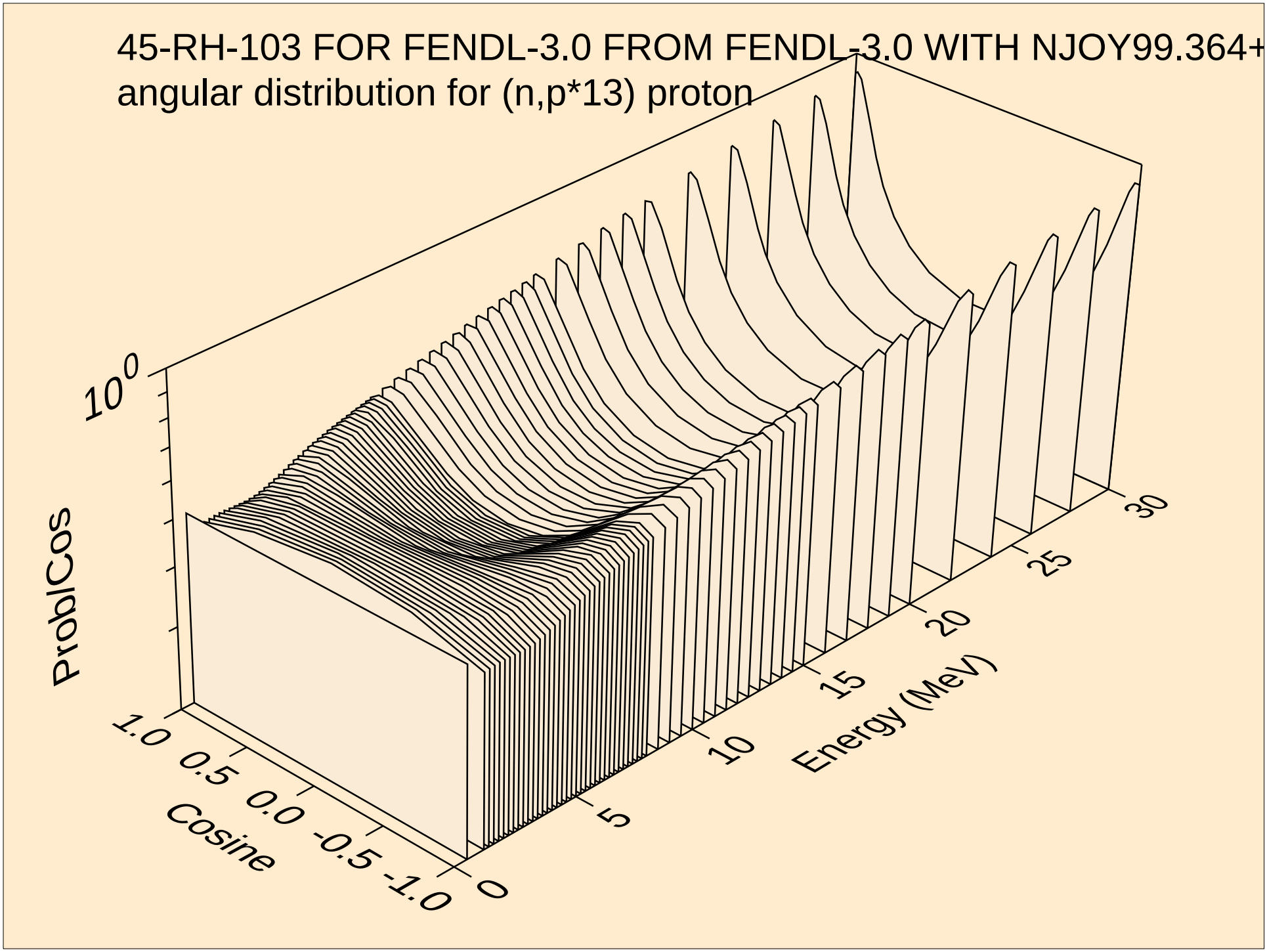

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*8) proton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

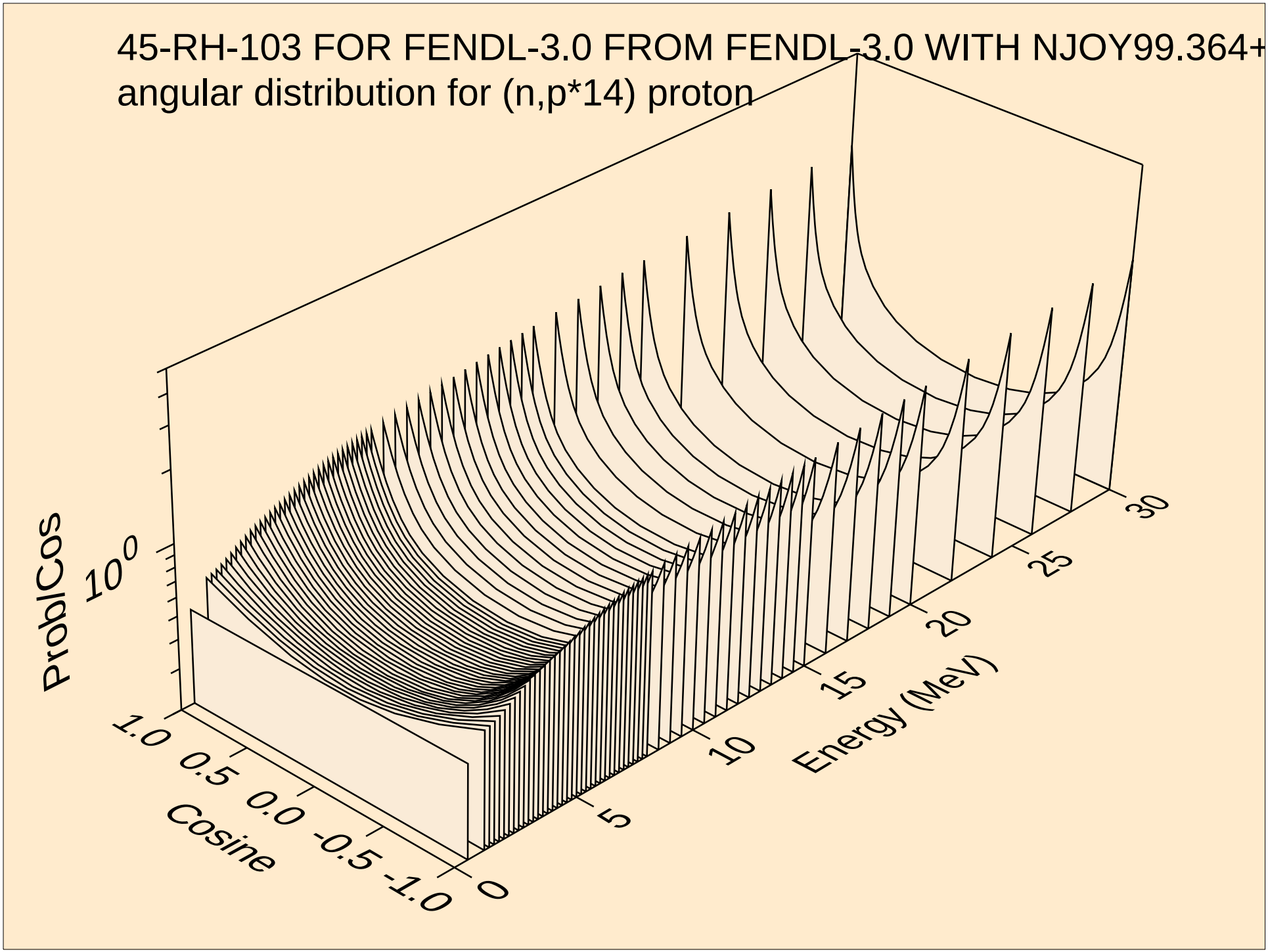

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*9) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

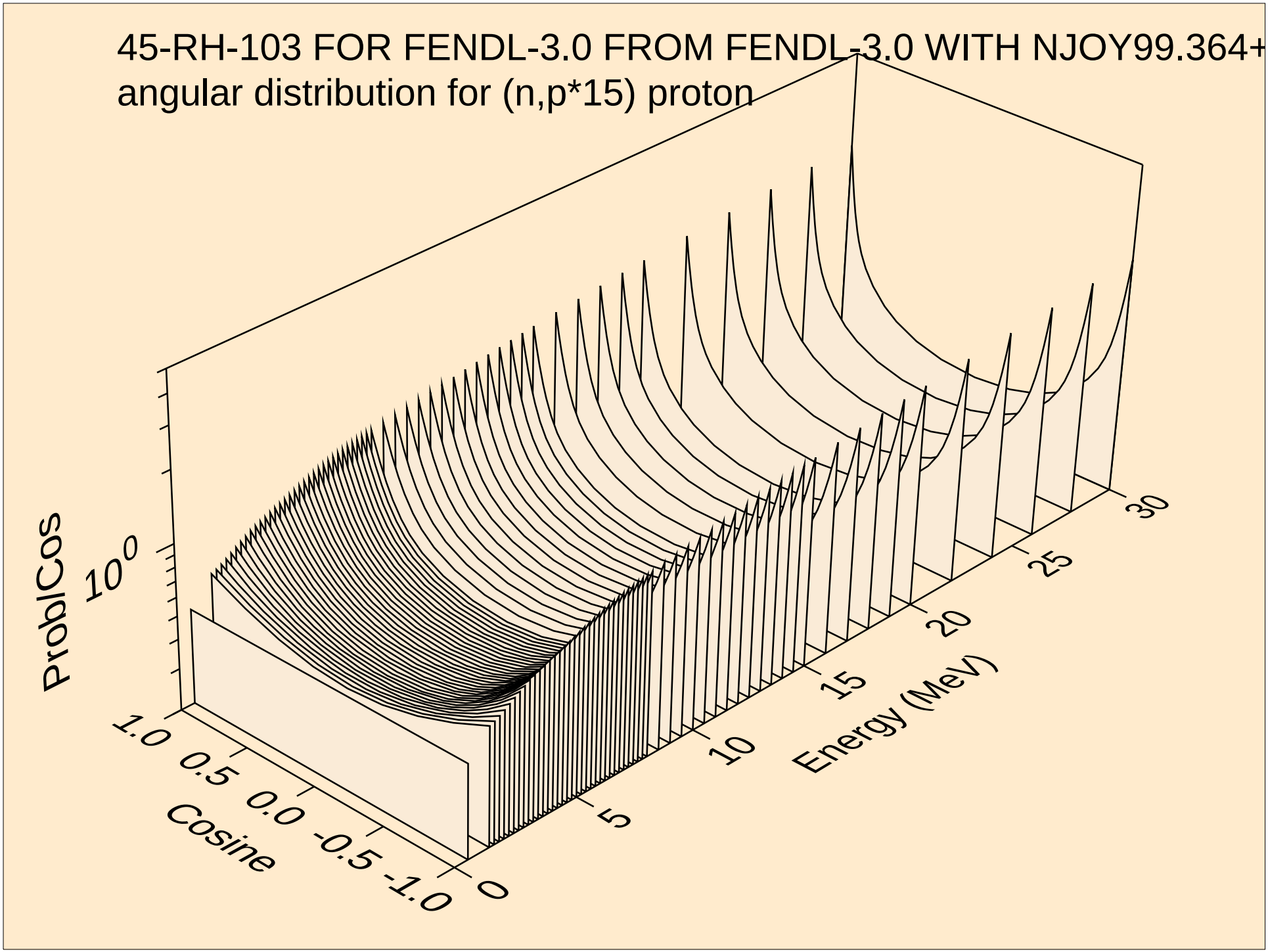

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*10) proton
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

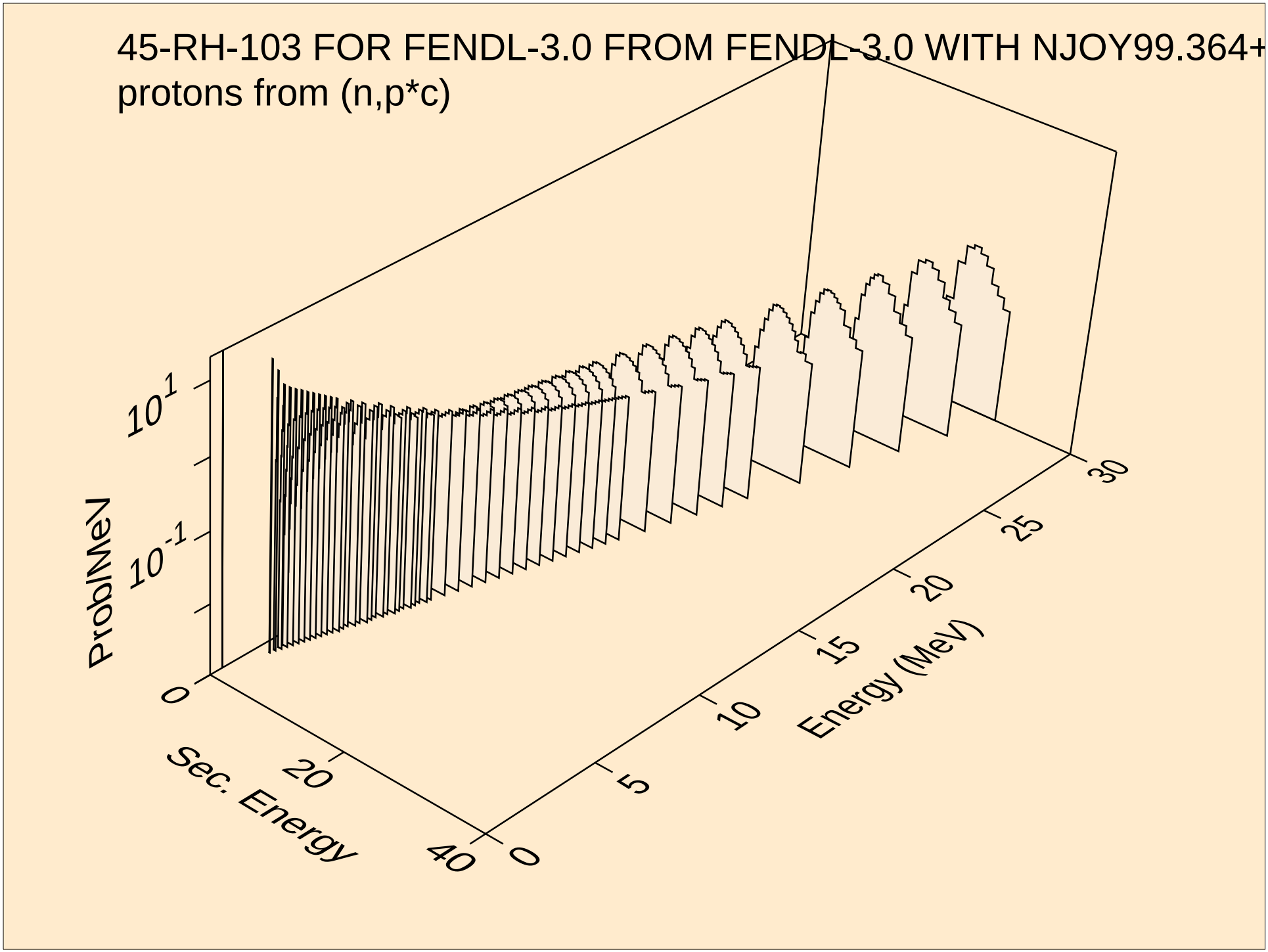

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*11) proton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

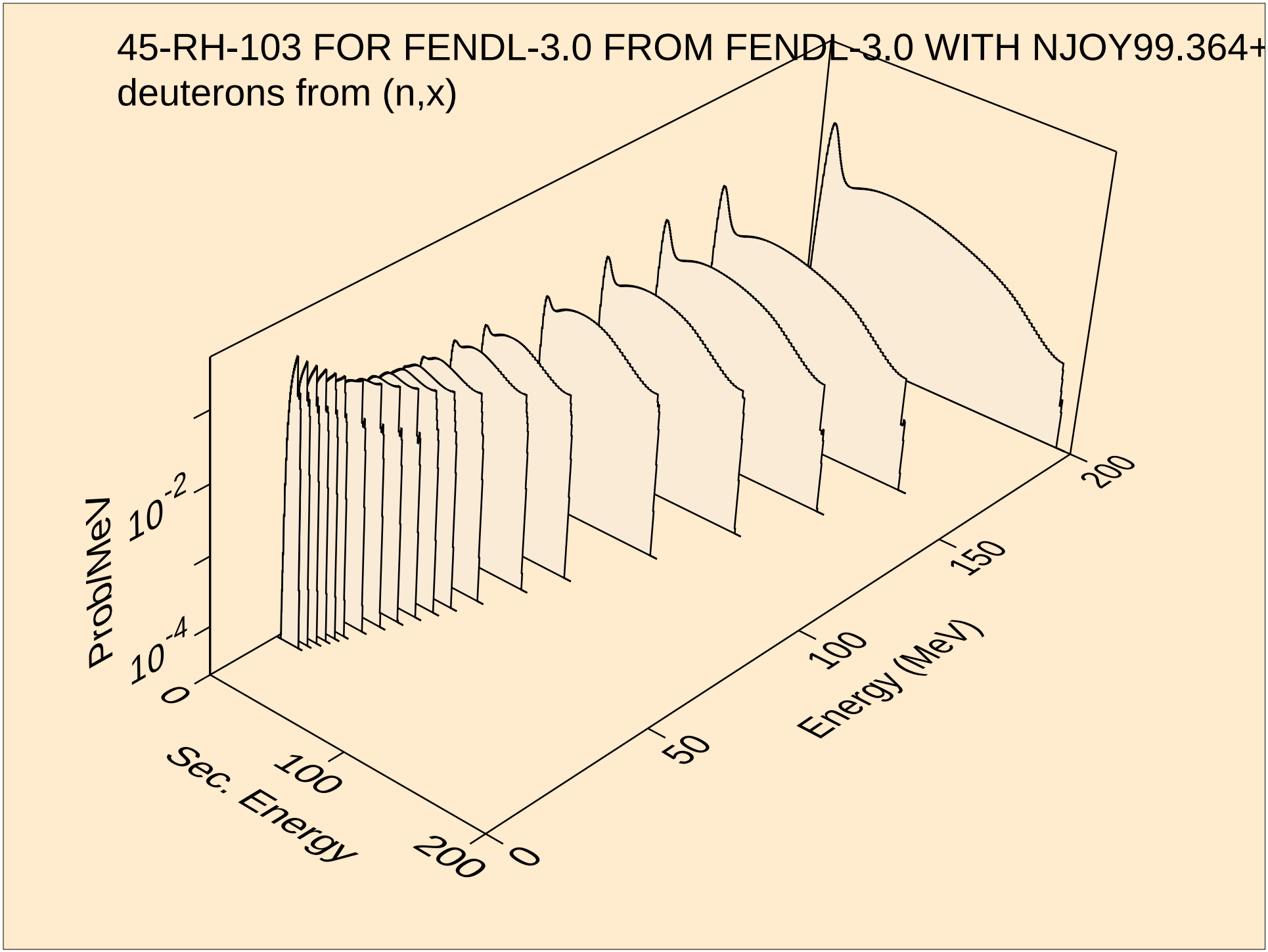

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*12) proton
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

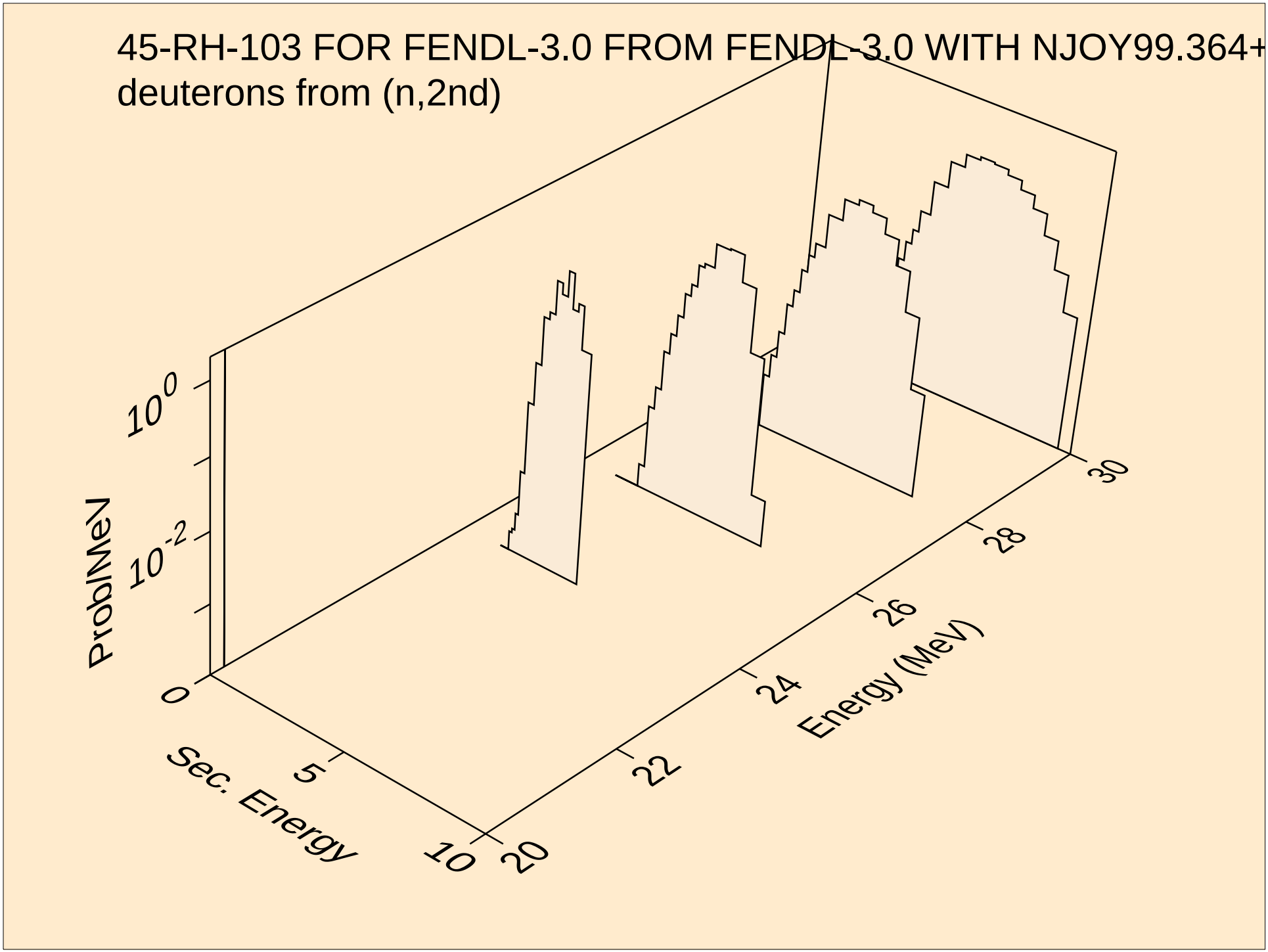

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*13) proton
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

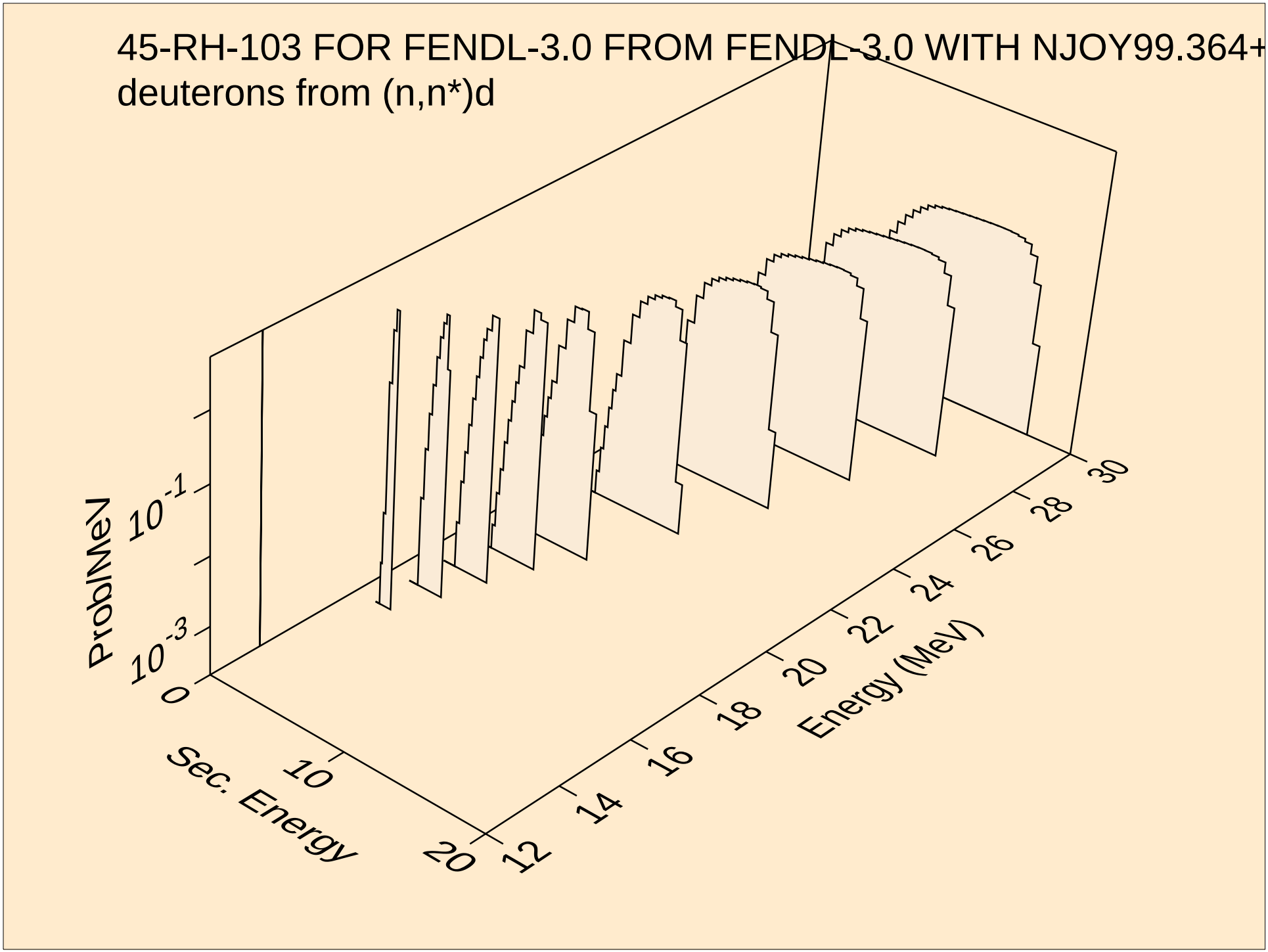

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*14) proton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

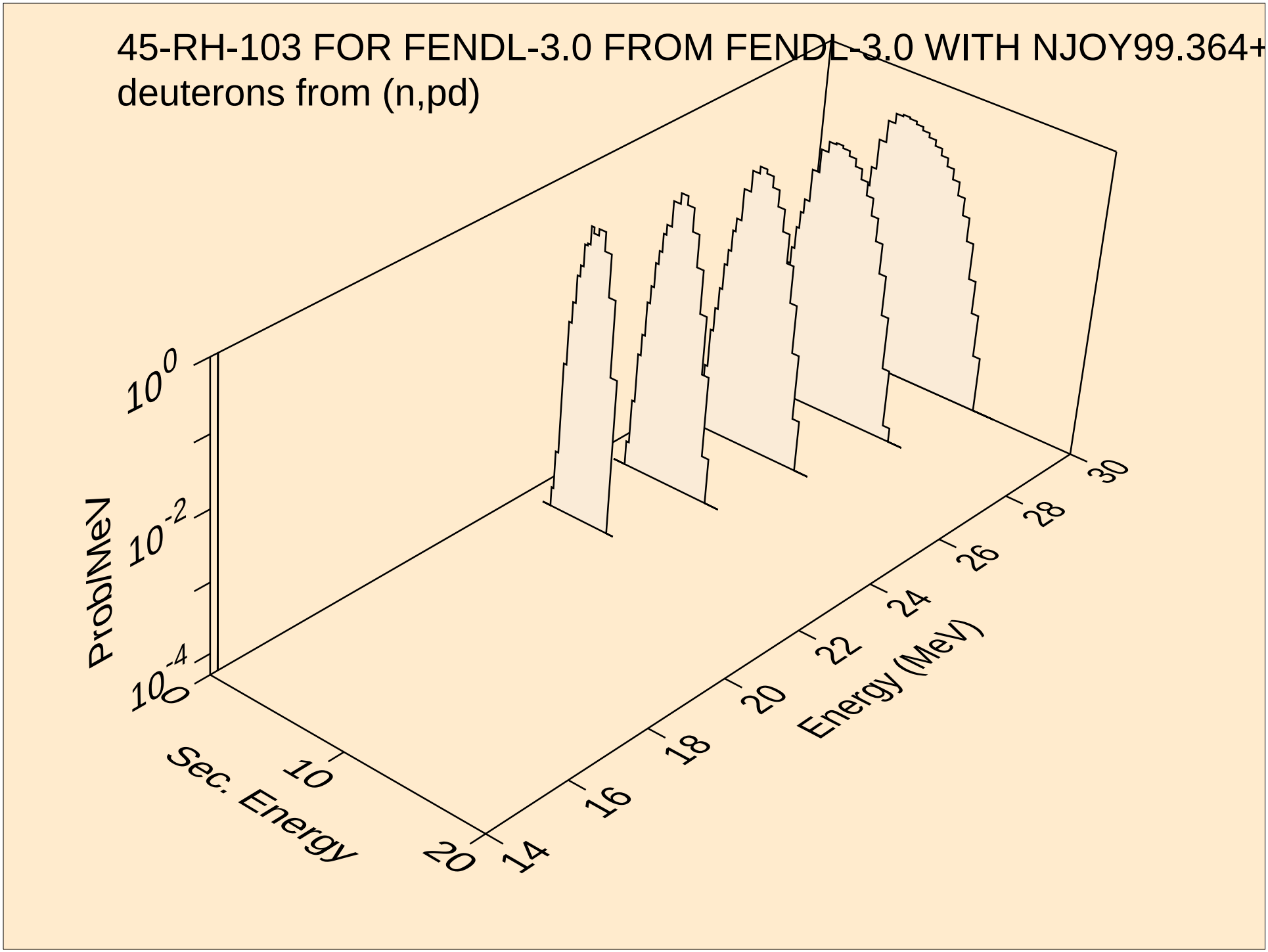

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,p*15) proton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

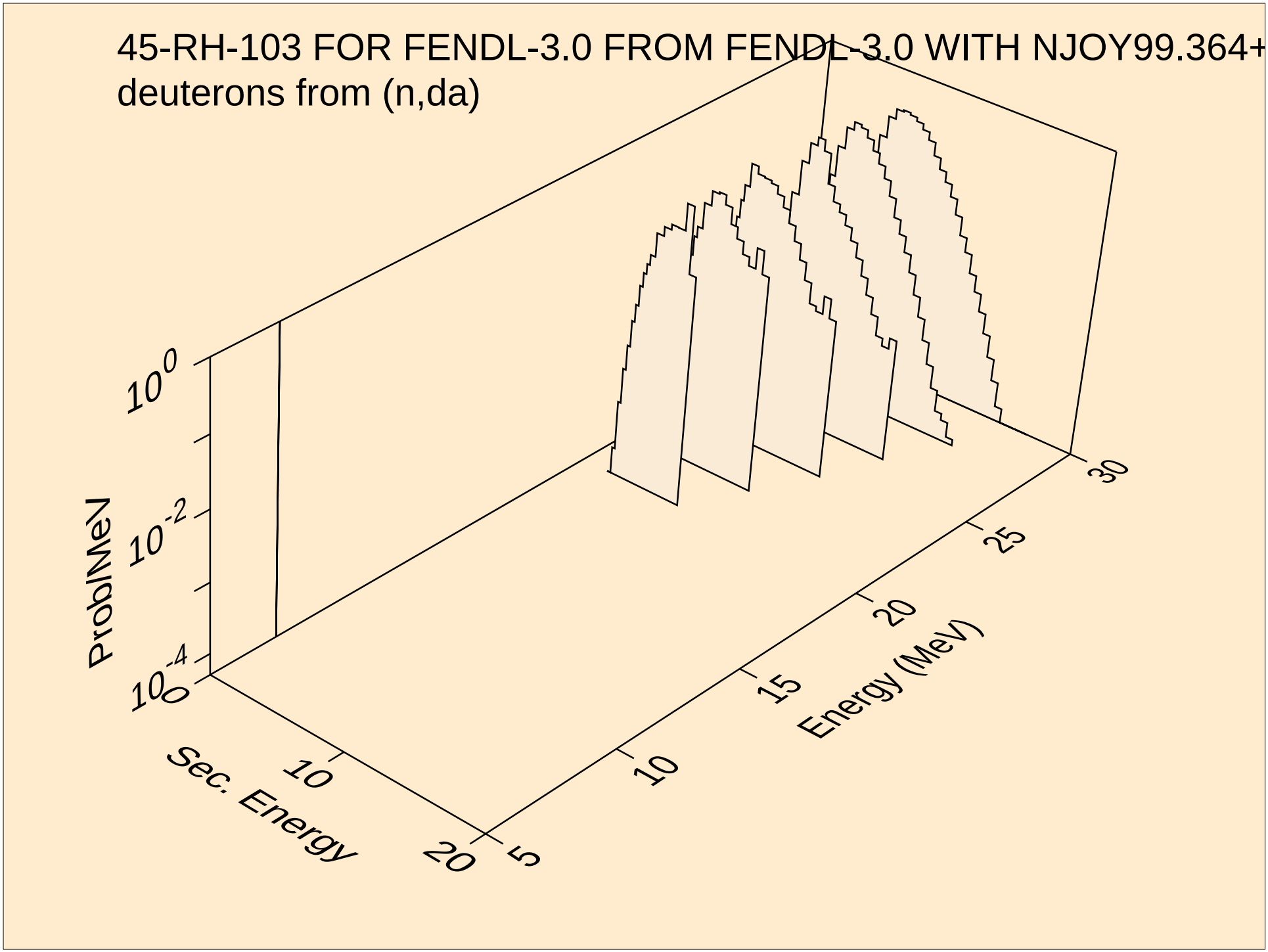

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
protons from (n,p*c)
Prob/MeV
10^1
10^-1
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

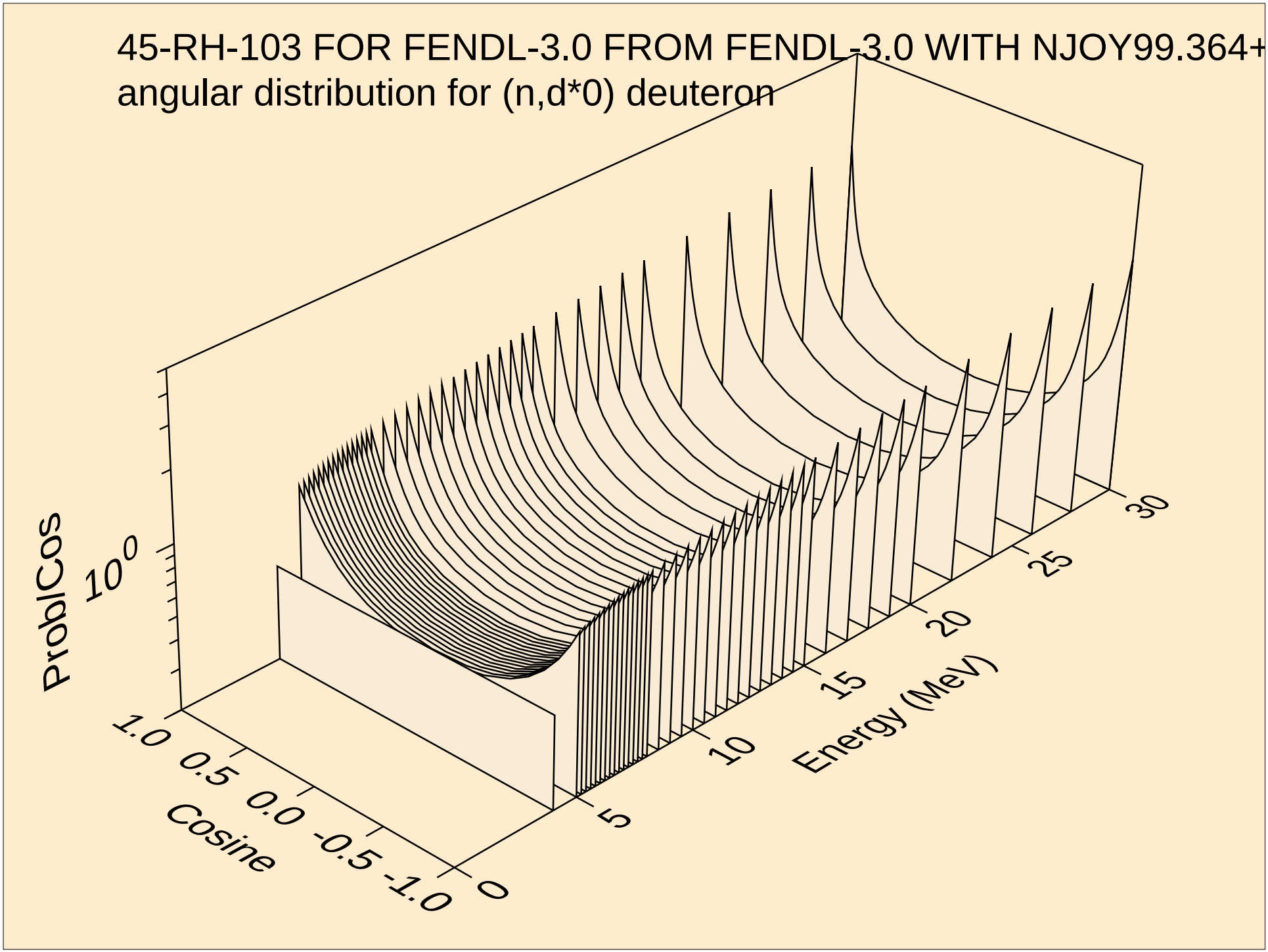

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
deuterons from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

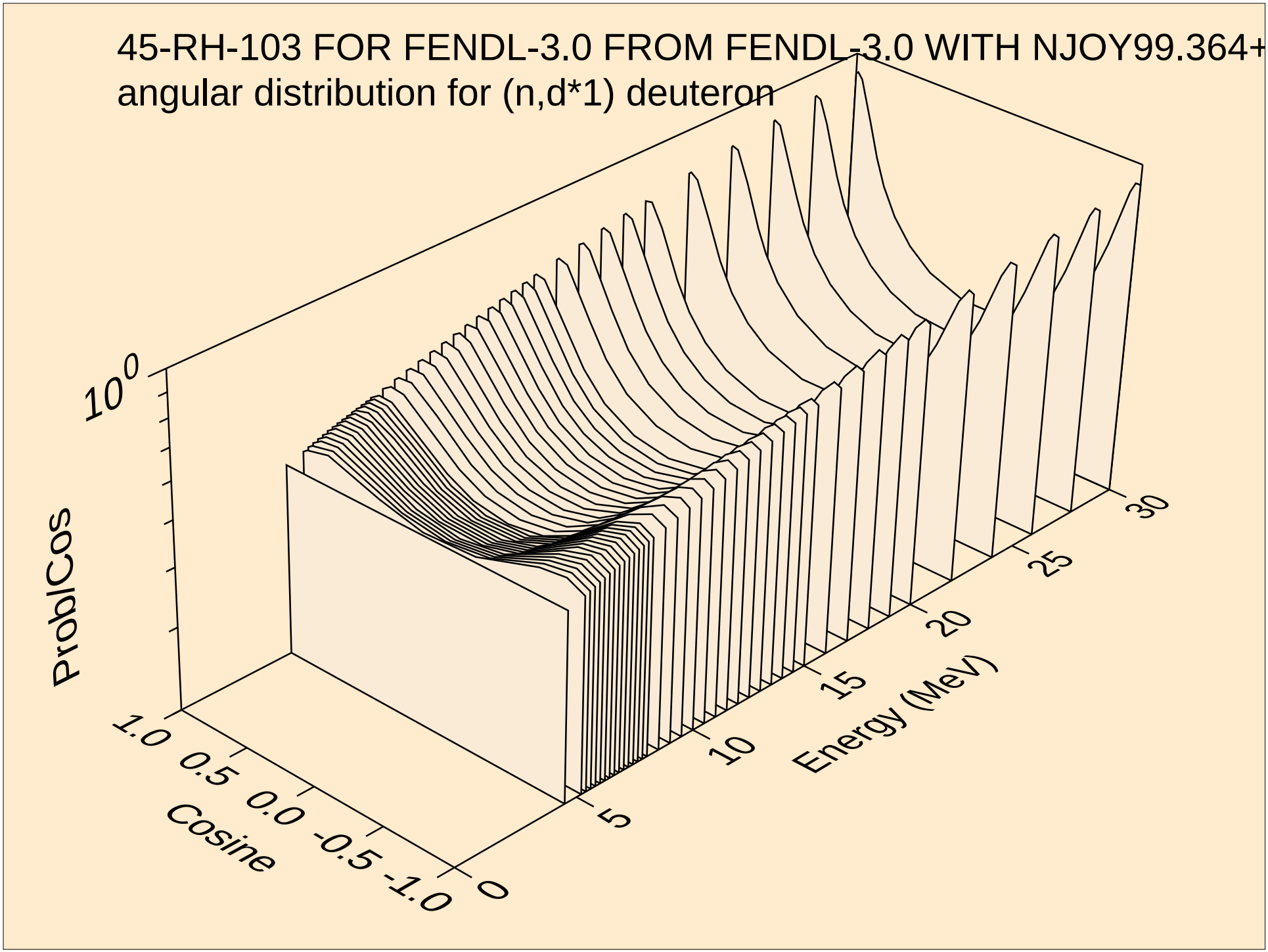

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
deuterons from (n,2nd)
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
20
22
24
26
28
30
Energy (MeV)

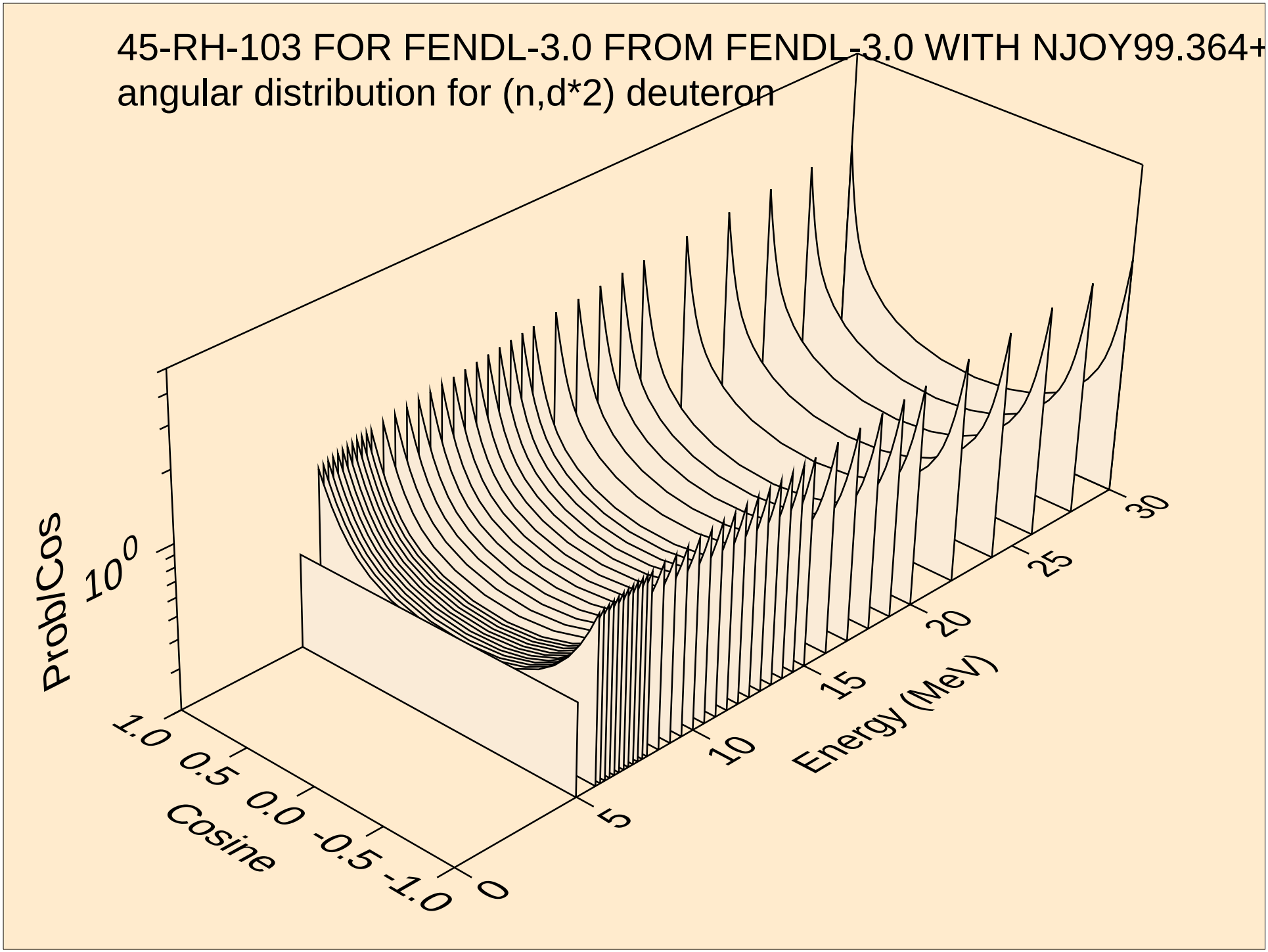

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
deuterons from (n,n*)d
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

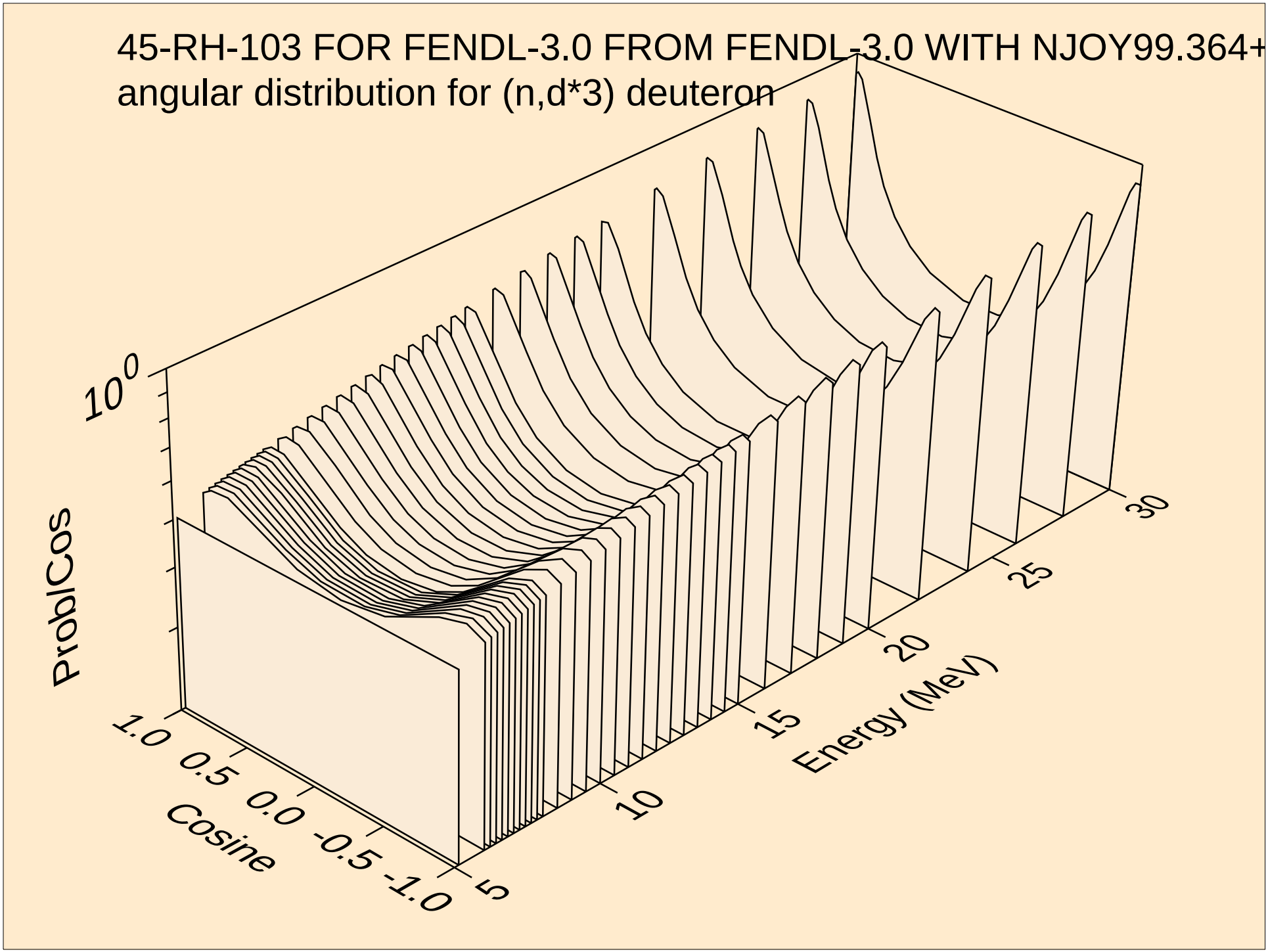

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
deuterons from (n,pd)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

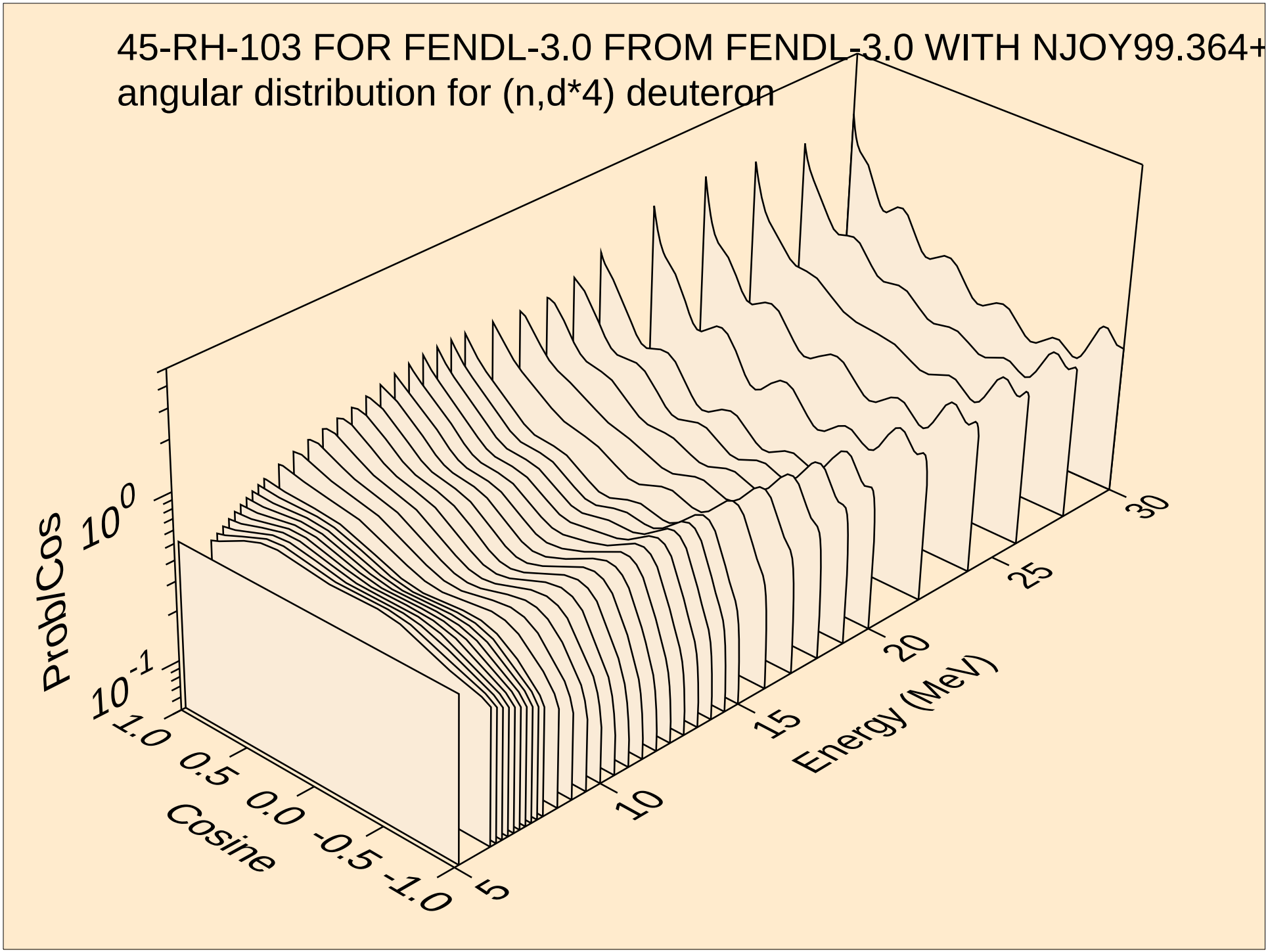

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
deuterons from (n,da)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

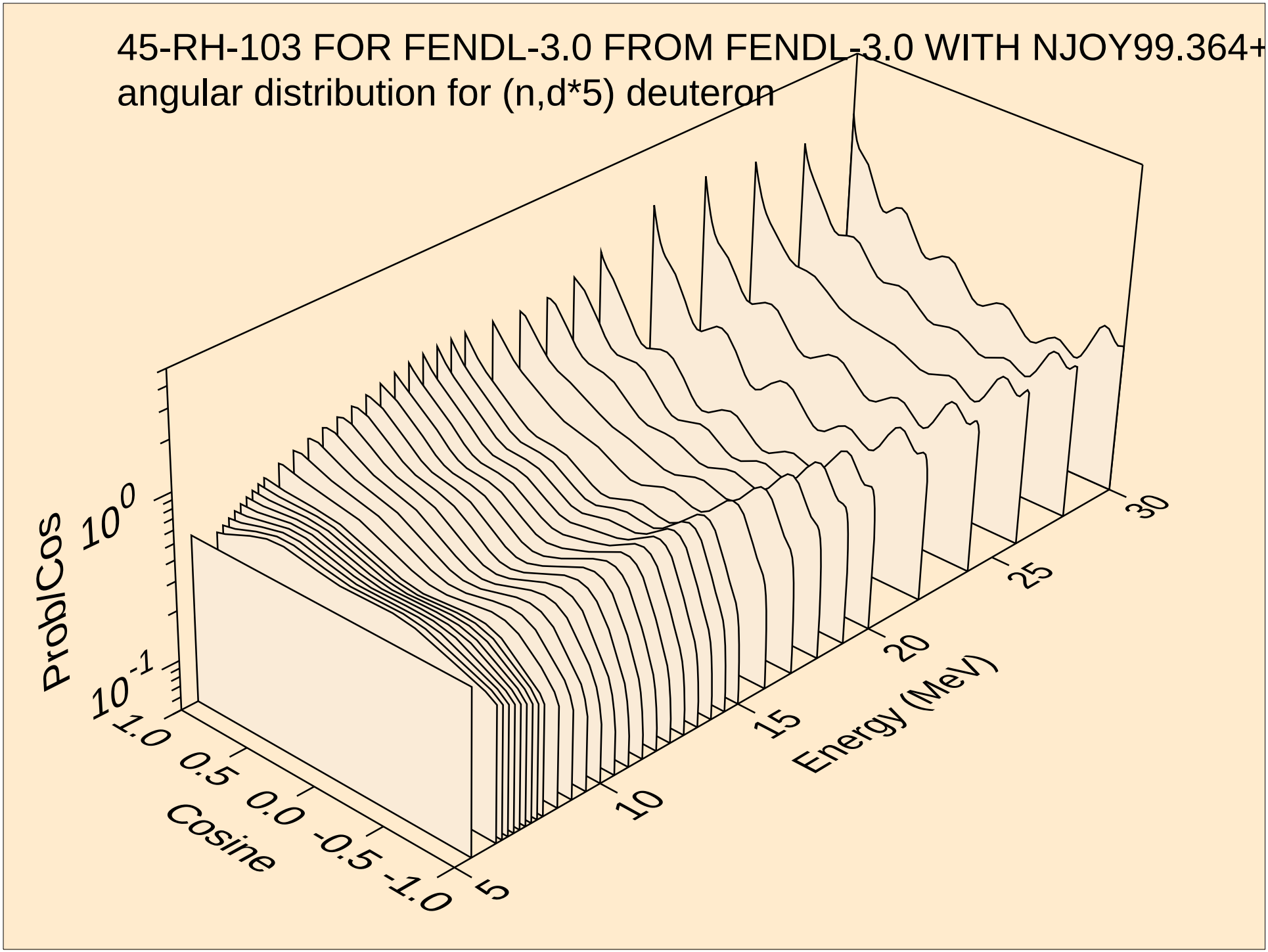

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*0) deuteron
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

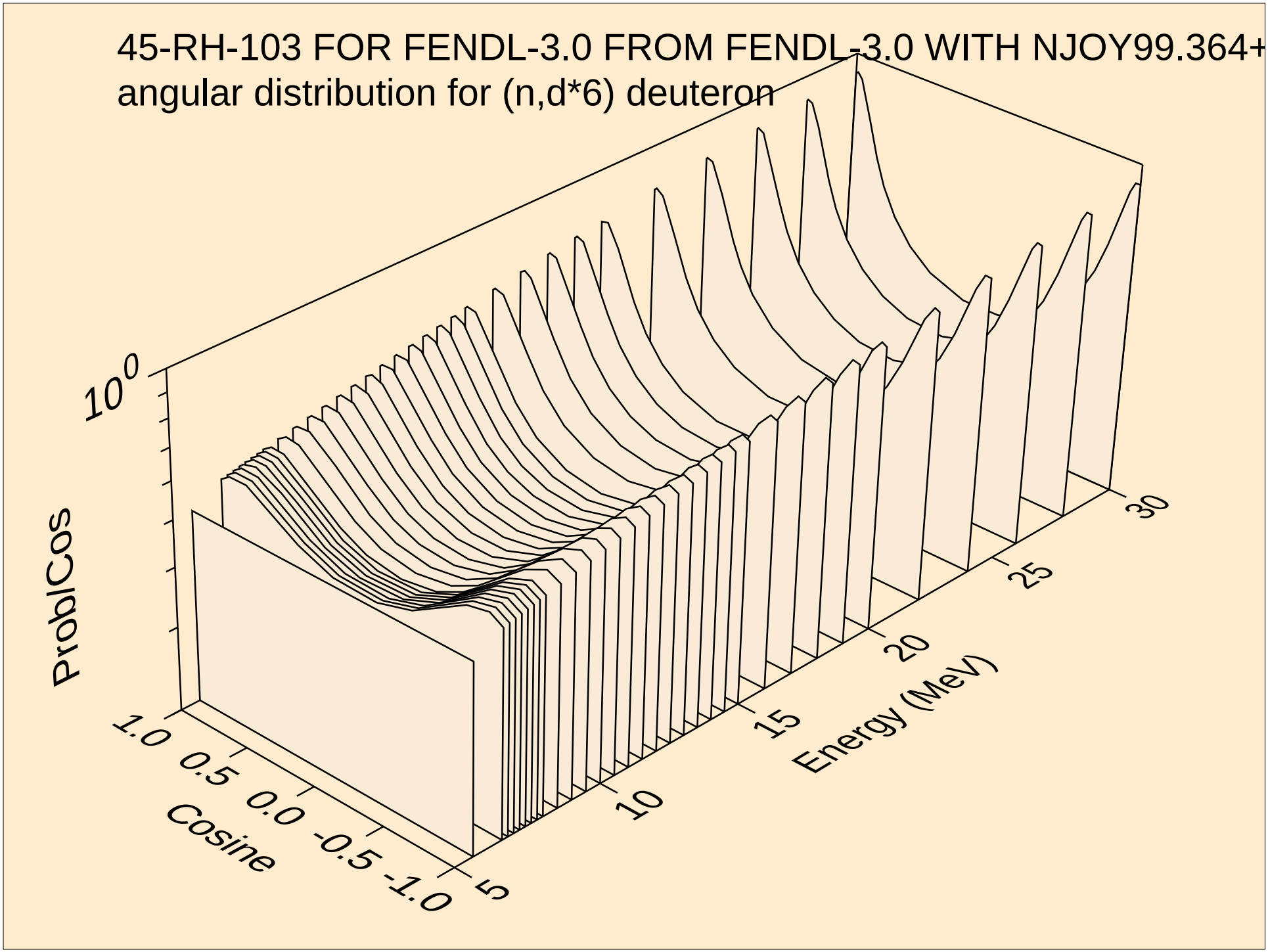

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*1) deuteron
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

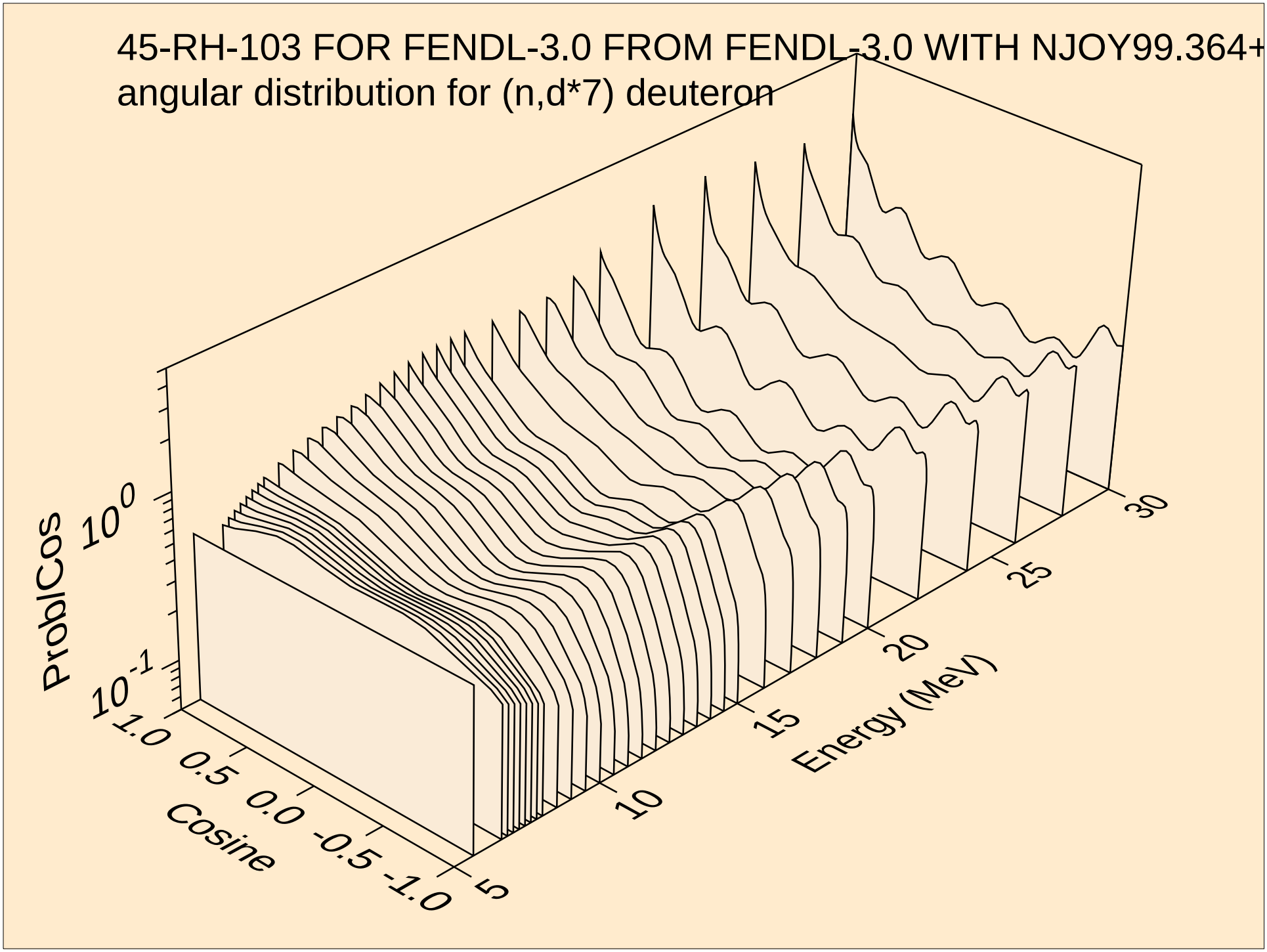

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*2) deuteron
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

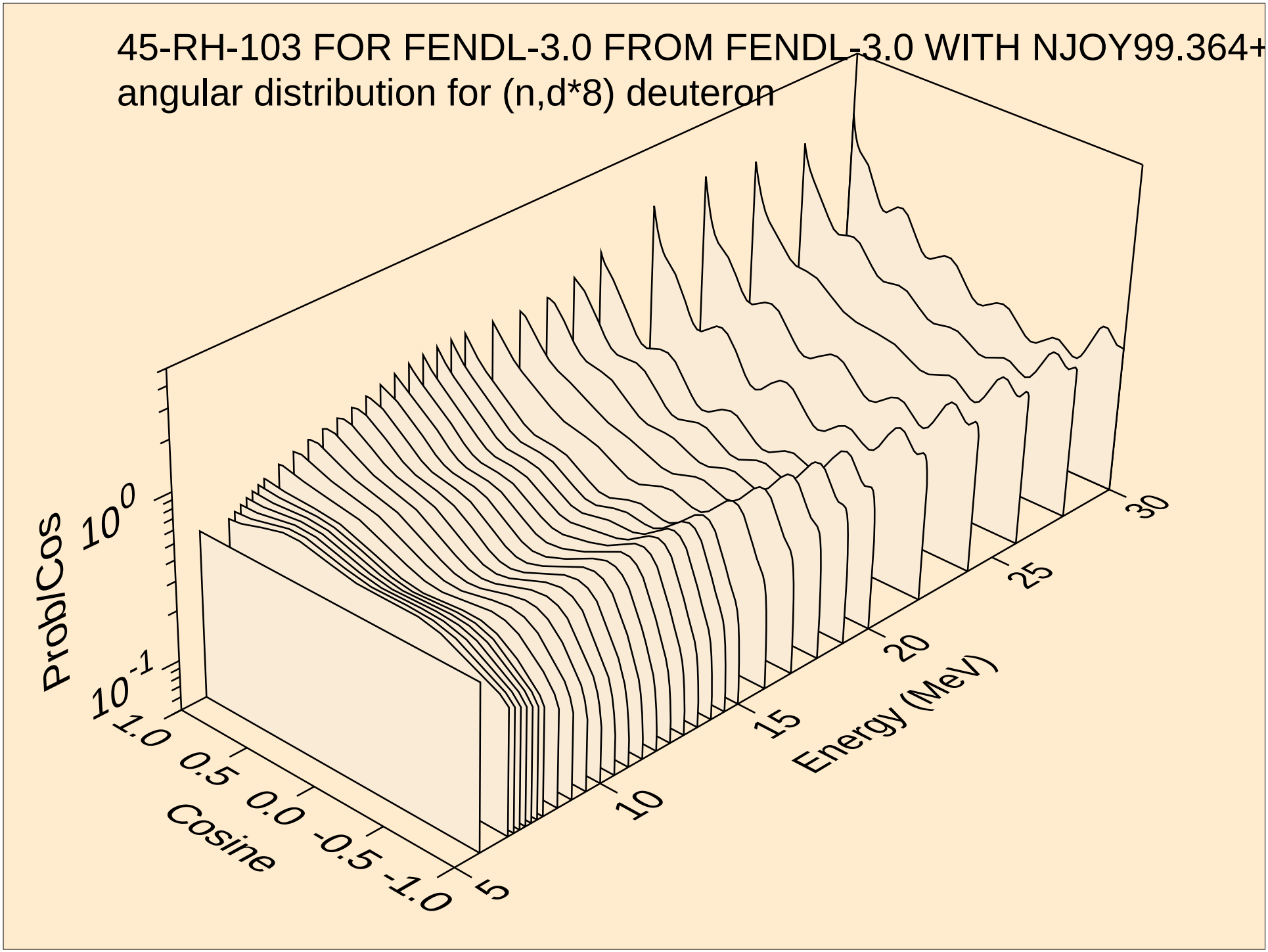

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*3) deuteron
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

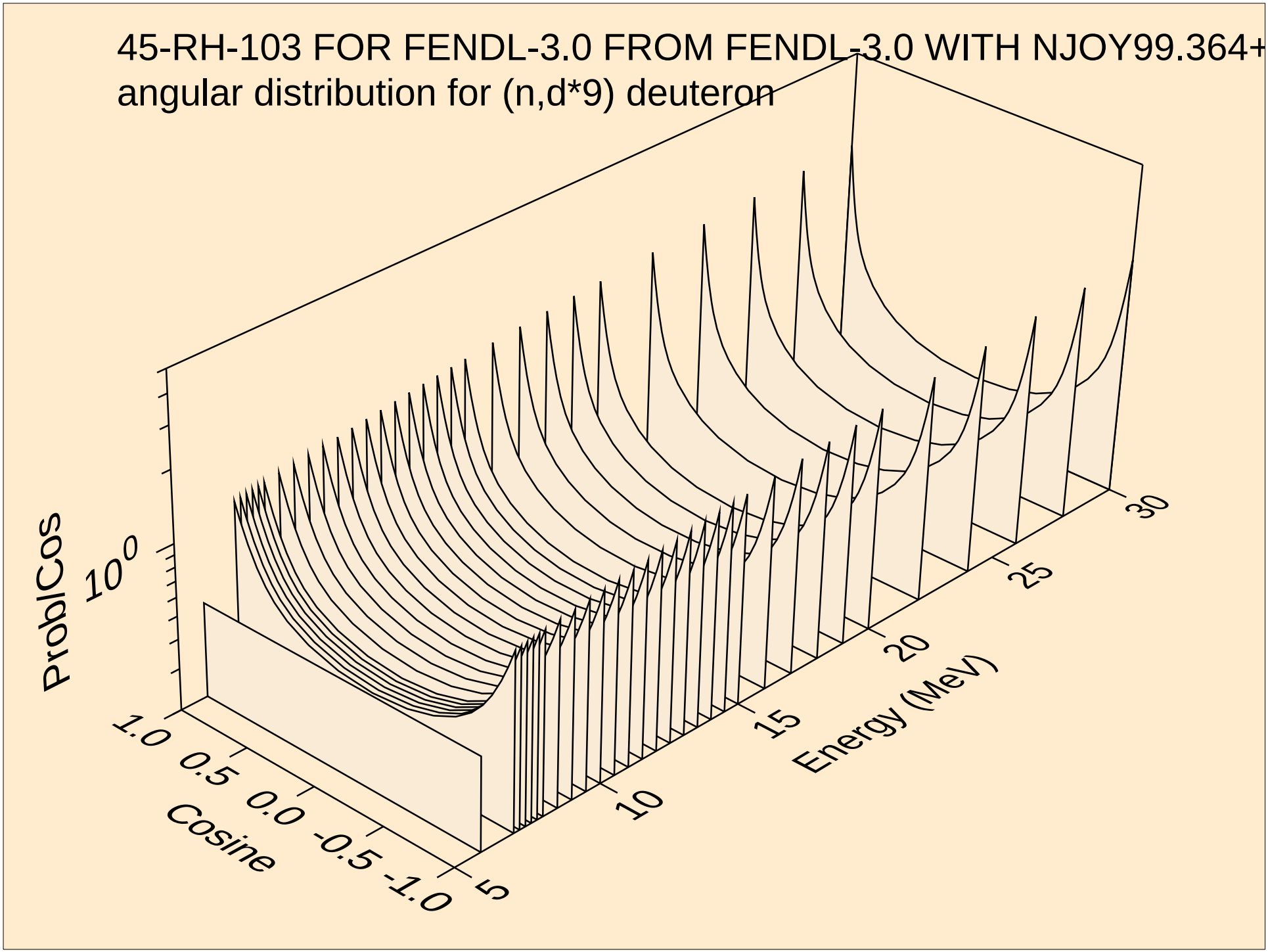

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*4) deuteron
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

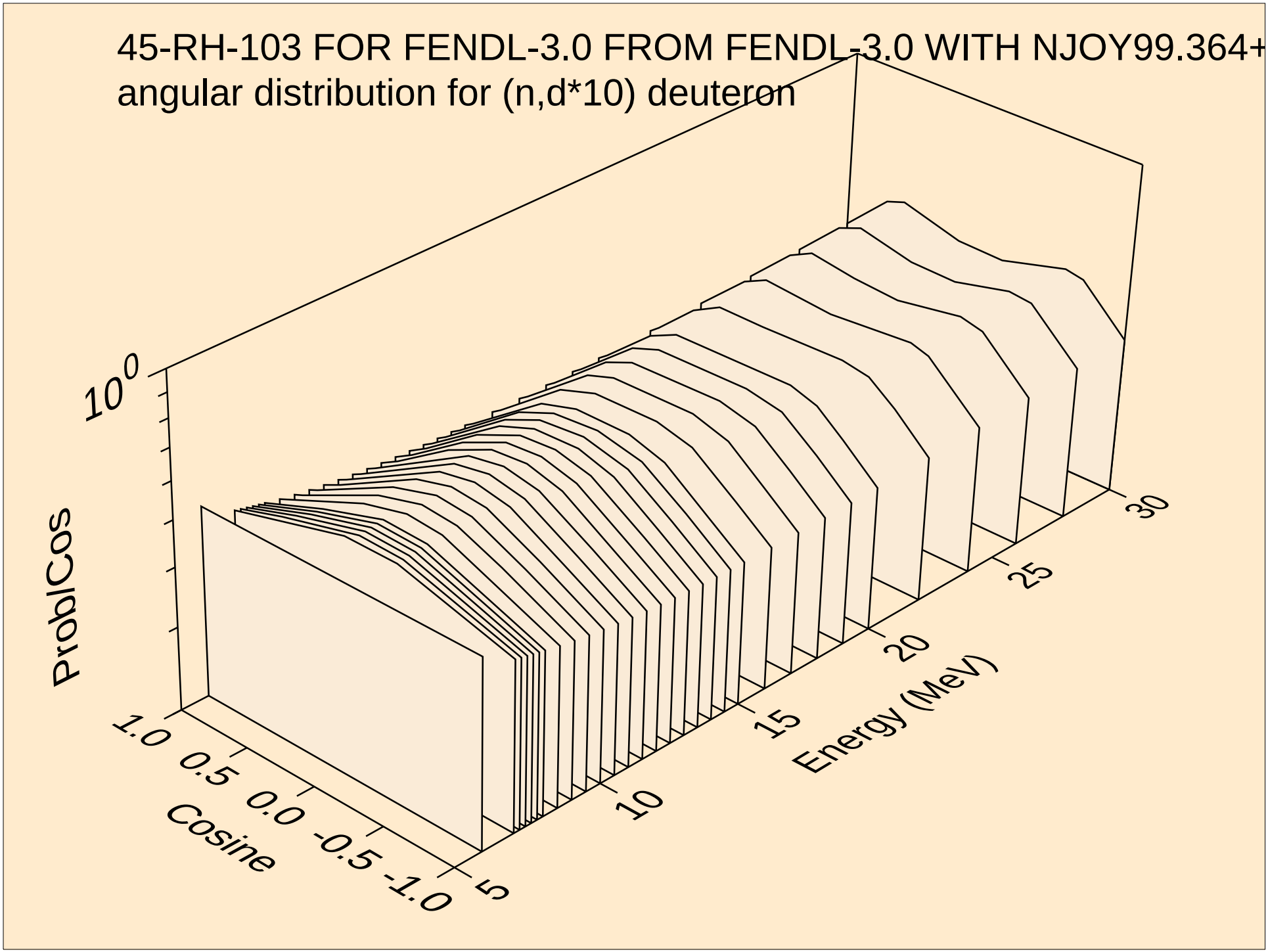

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*5) deuteron
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

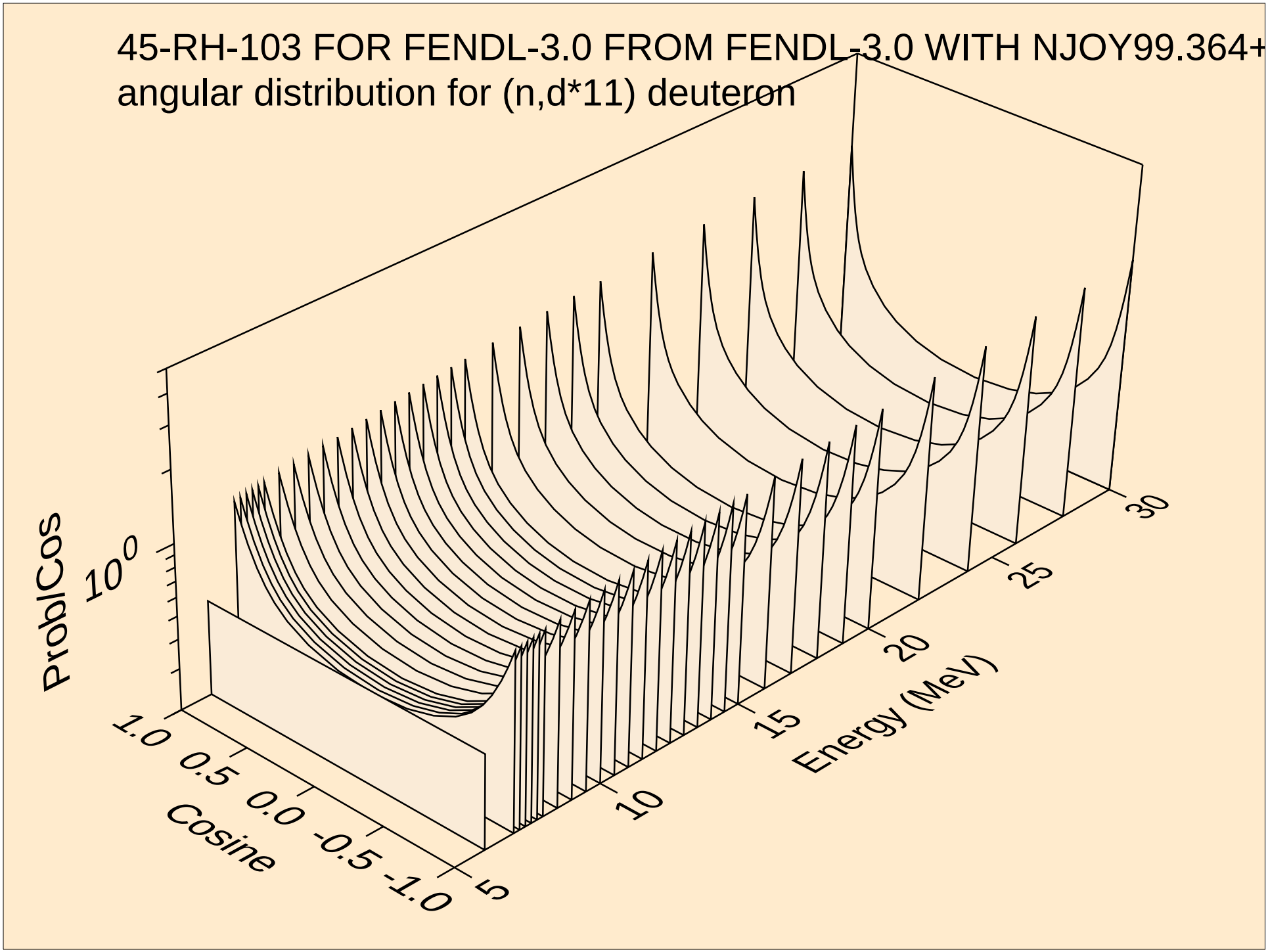

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*6) deuteron
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

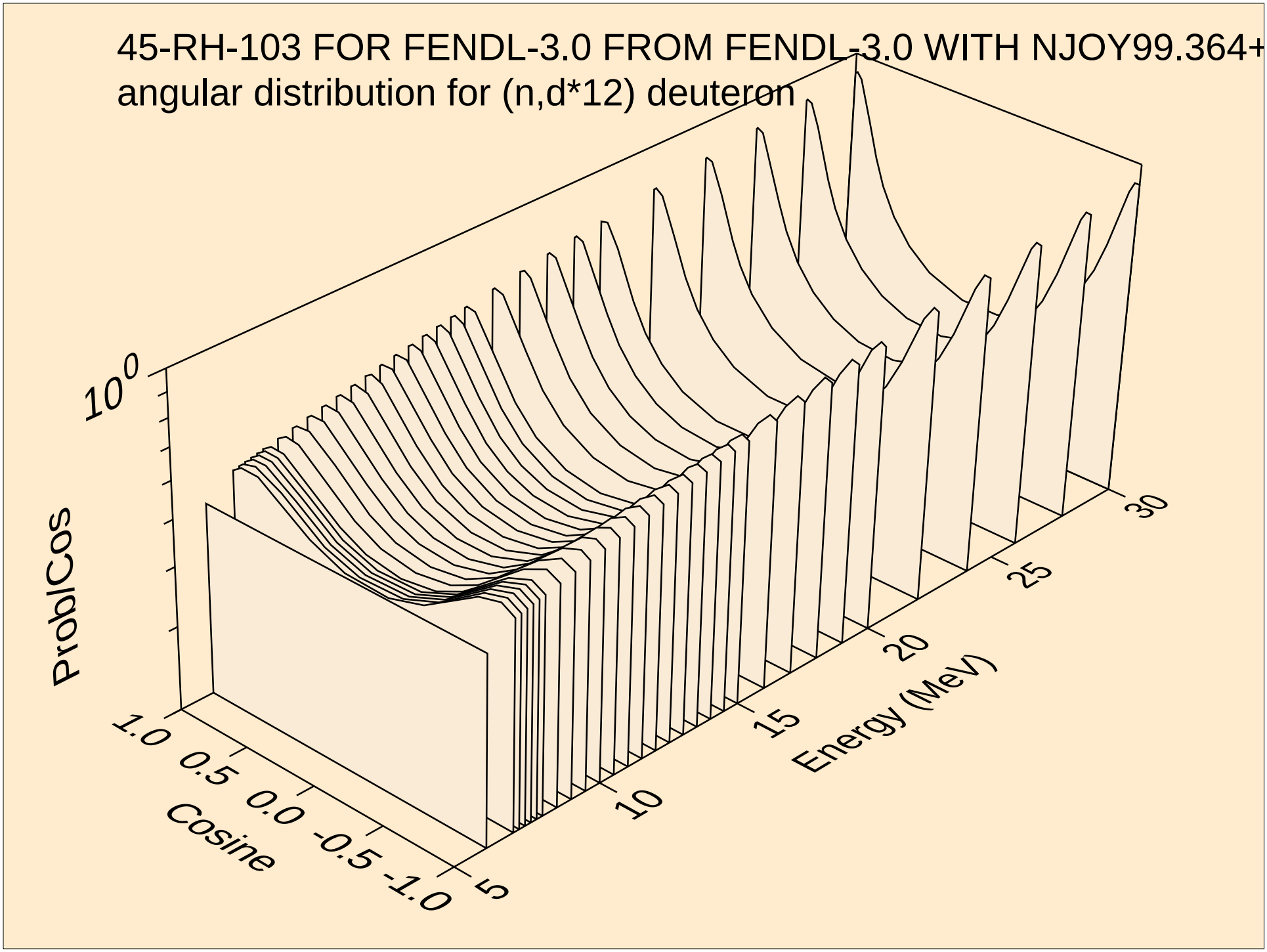

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*7) deuteron
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

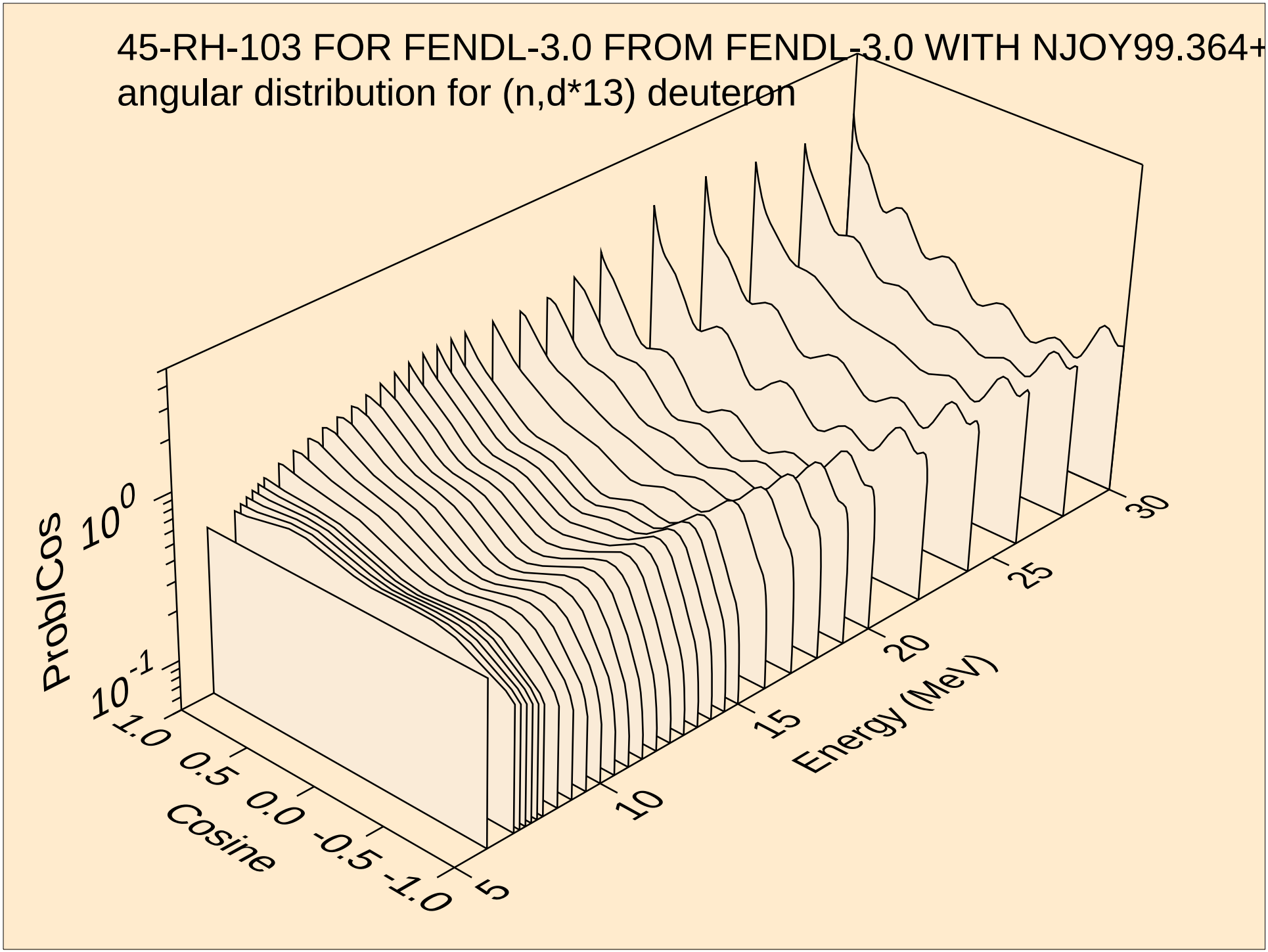

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*8) deuteron
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

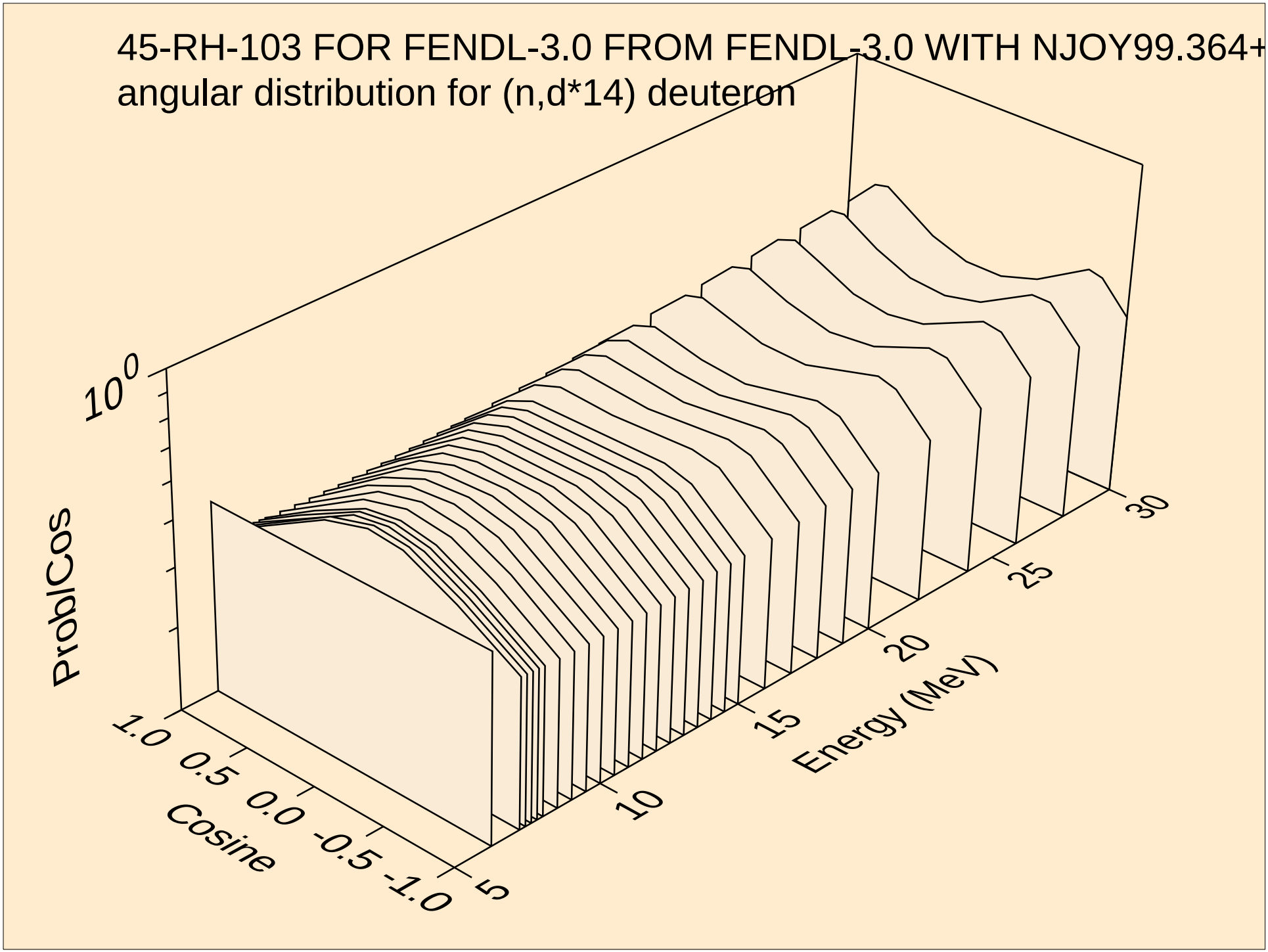

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*9) deuteron
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

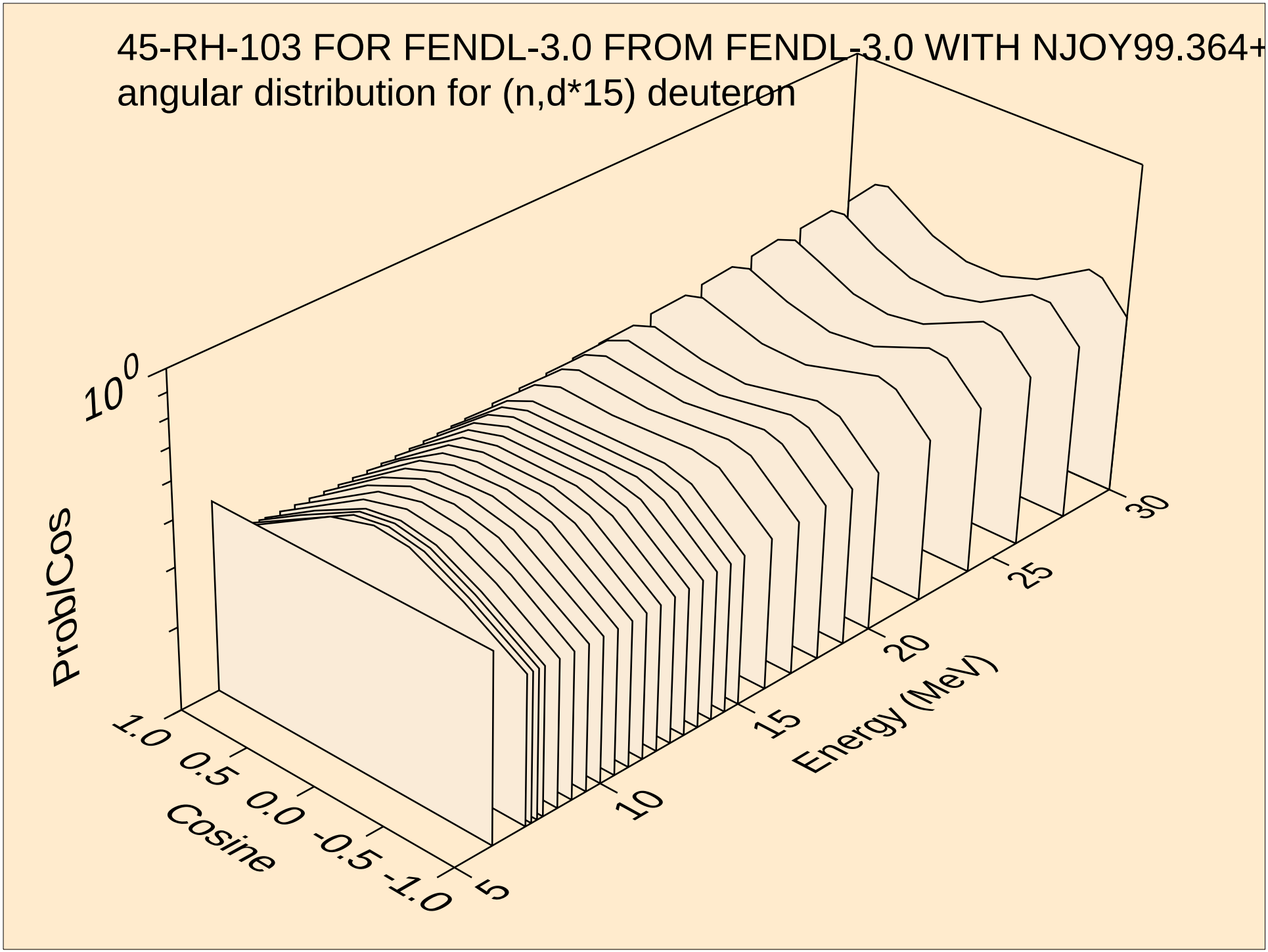

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*10) deuteron
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

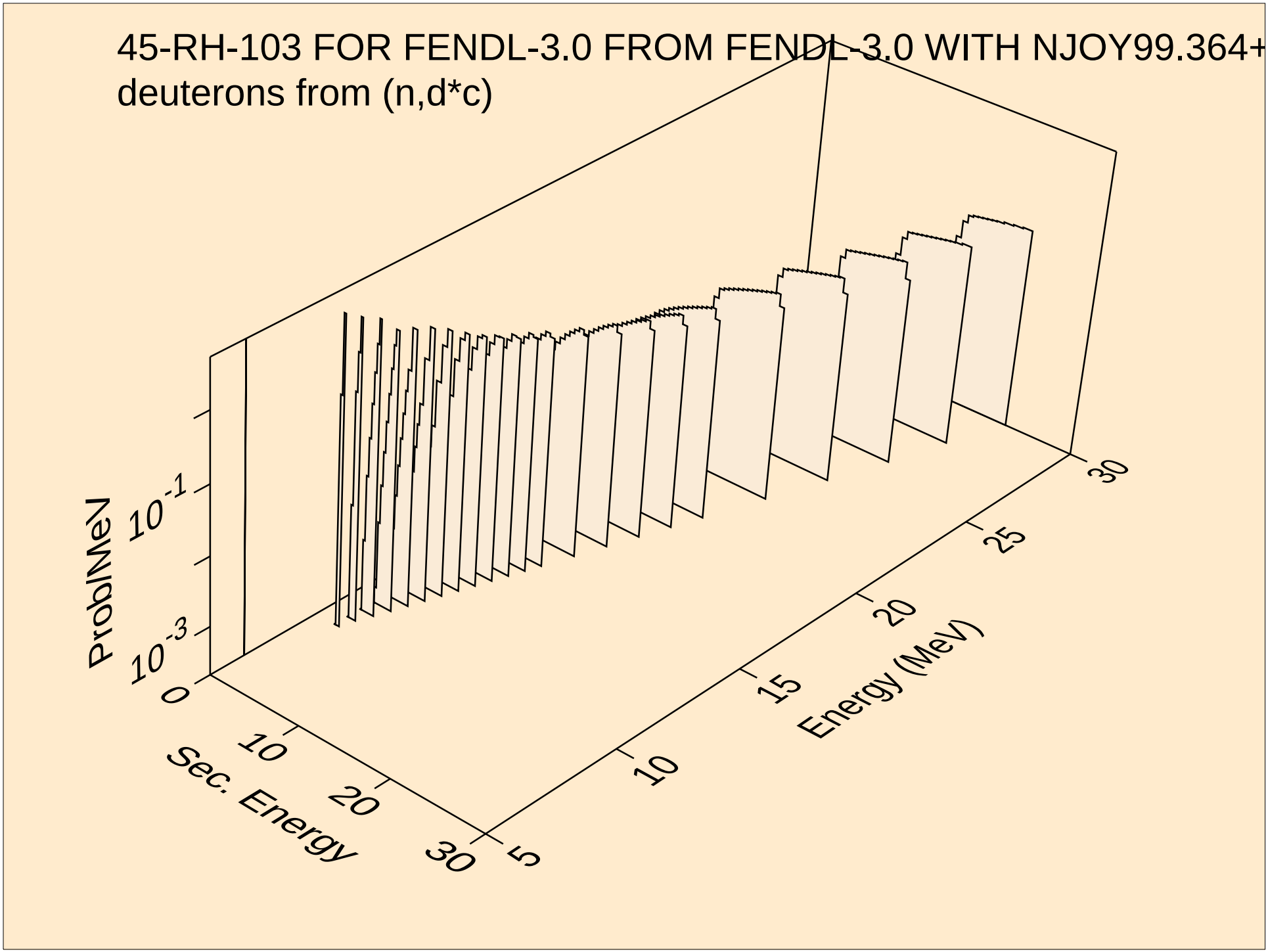

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*11) deuteron
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

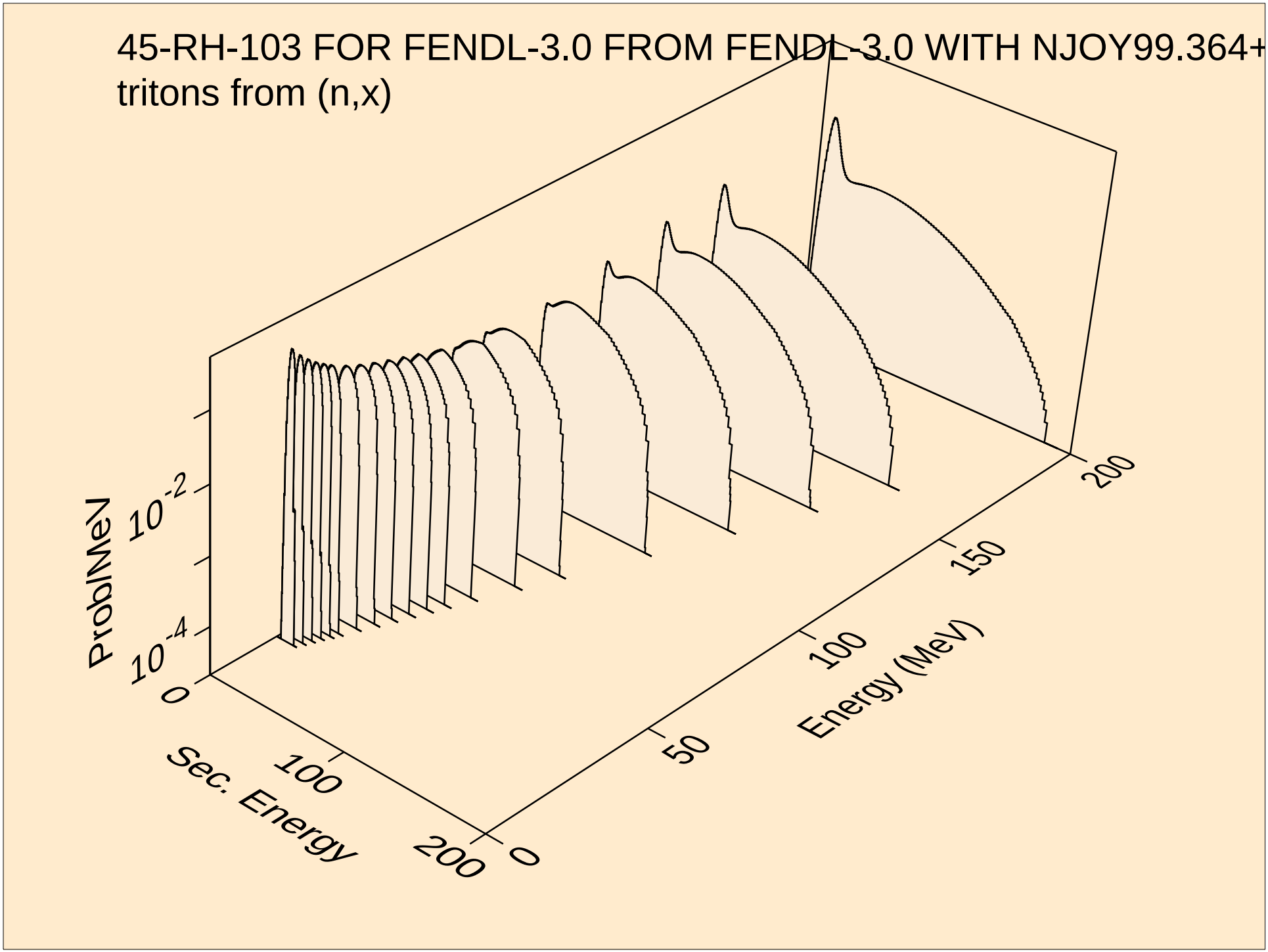

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*12) deuteron
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

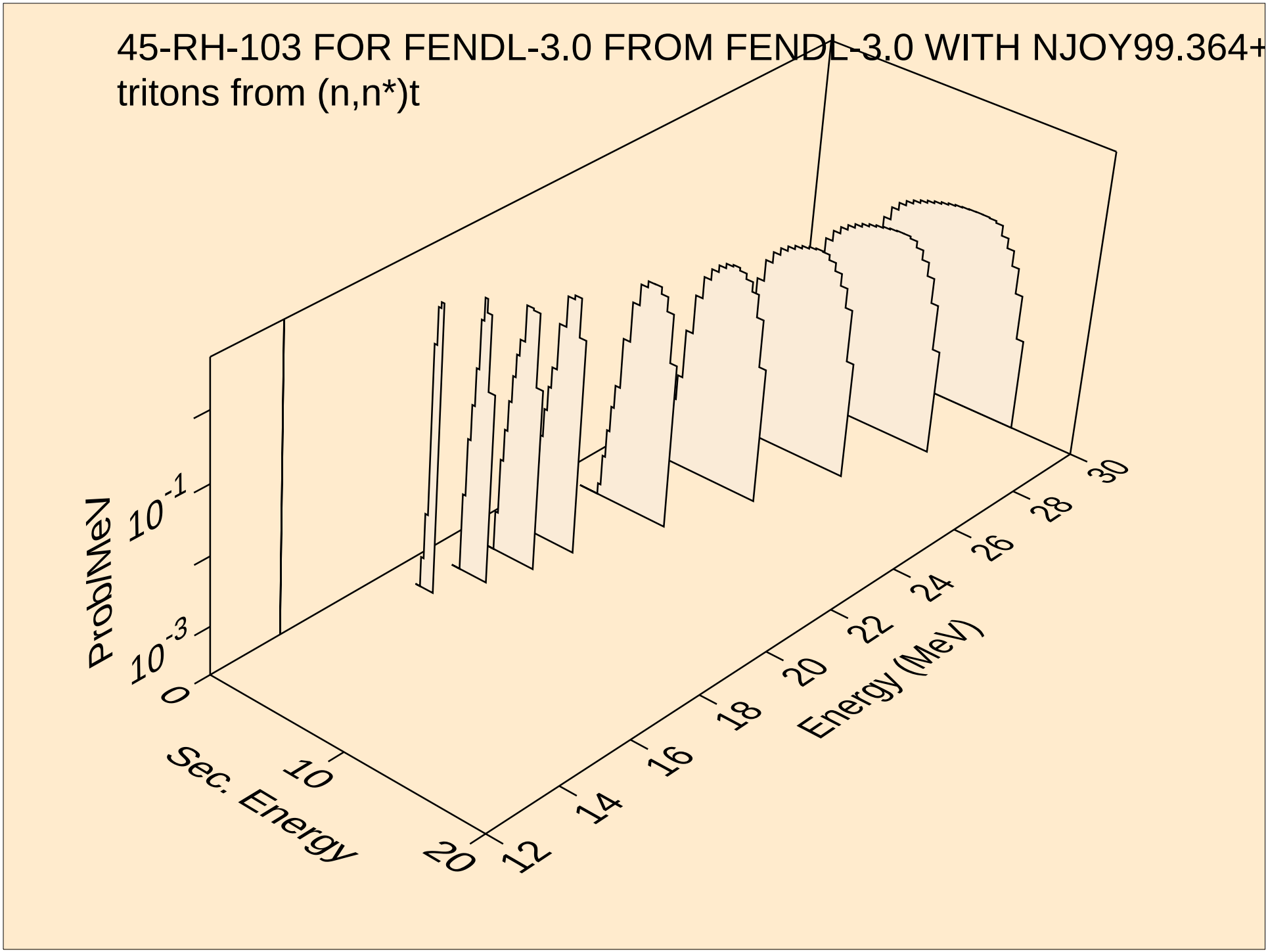

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*13) deuteron
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

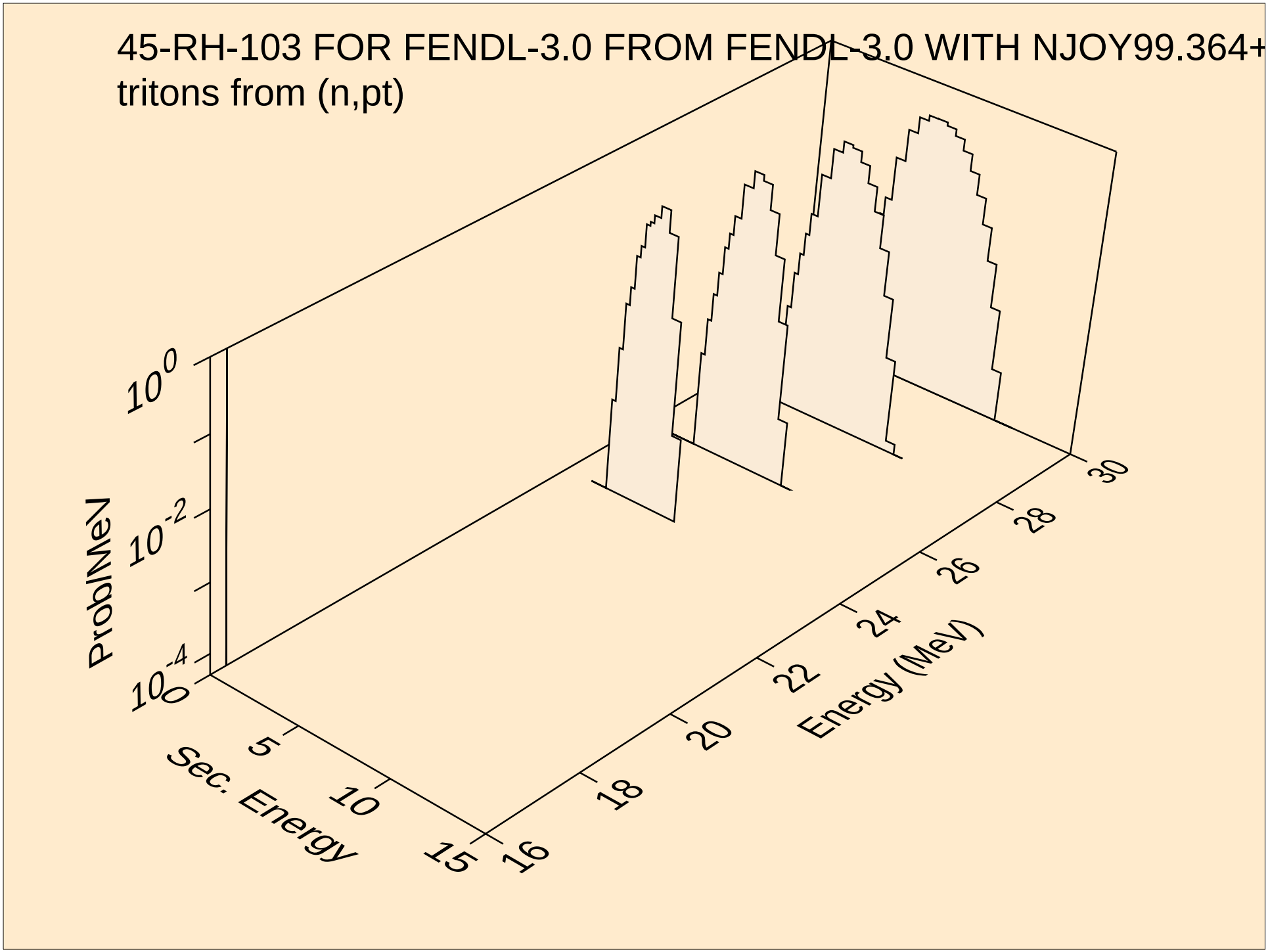

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*14) deuteron
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

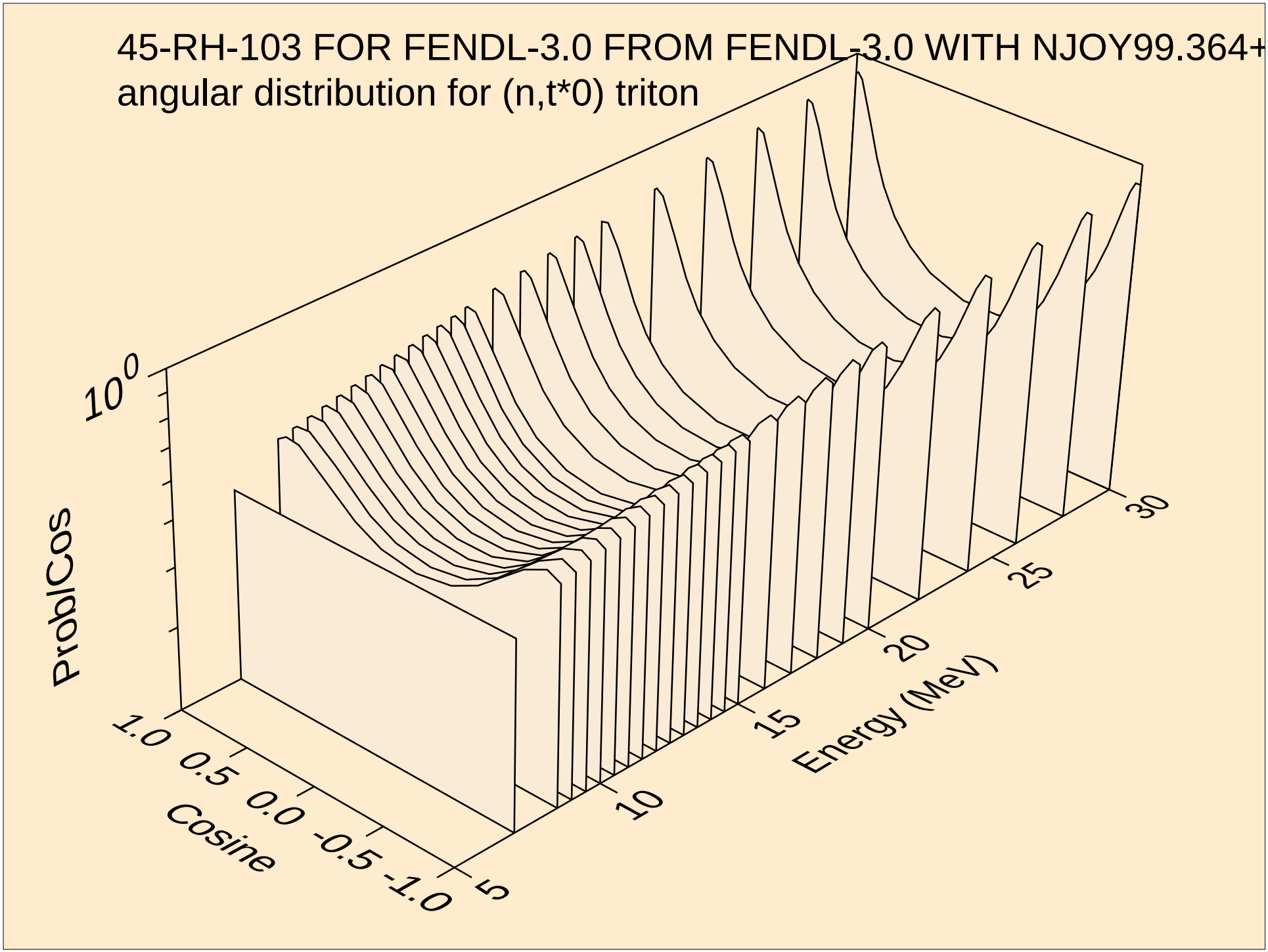

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,d*15) deuteron
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

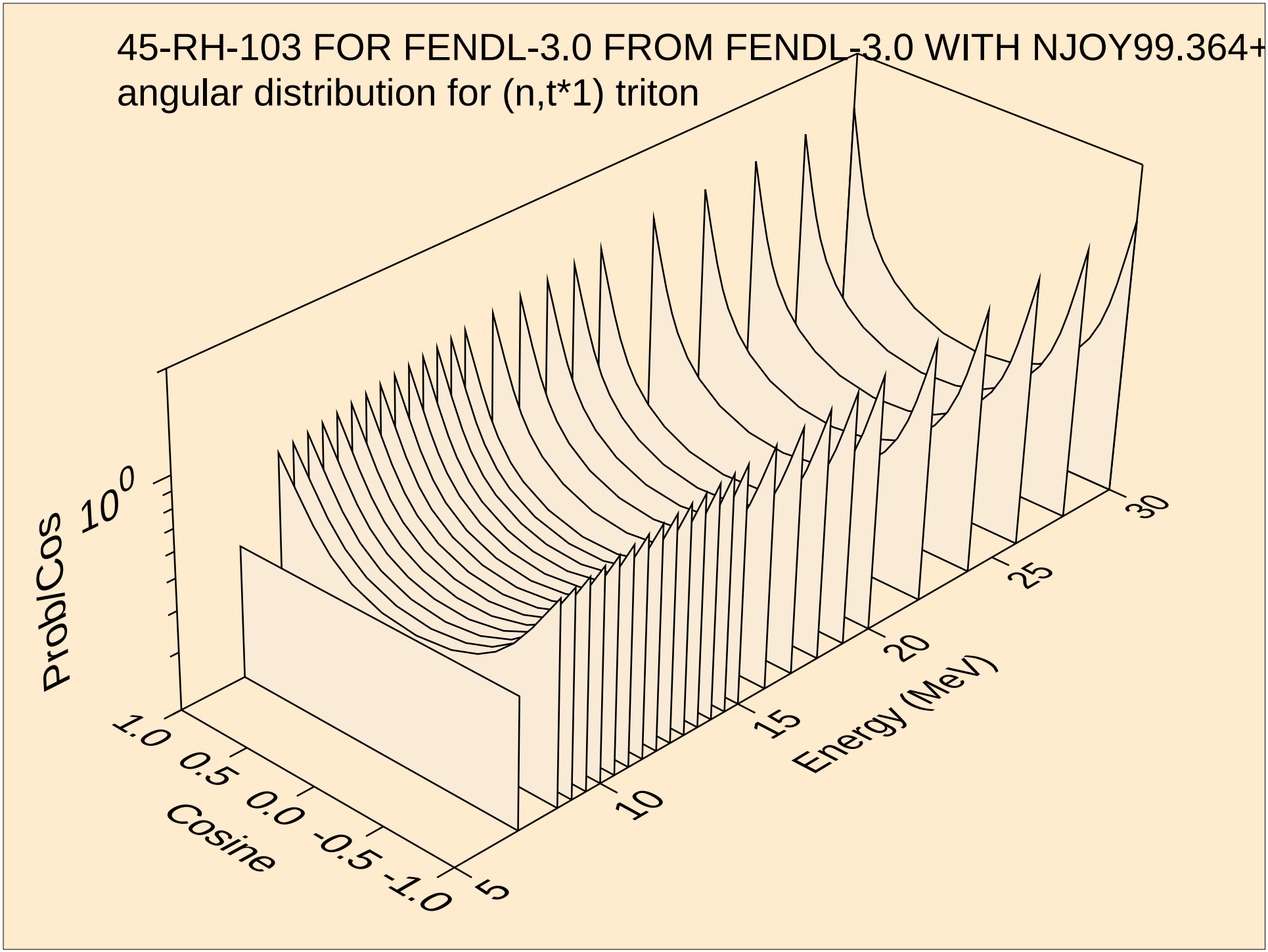

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
deuterons from (n,d*c)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

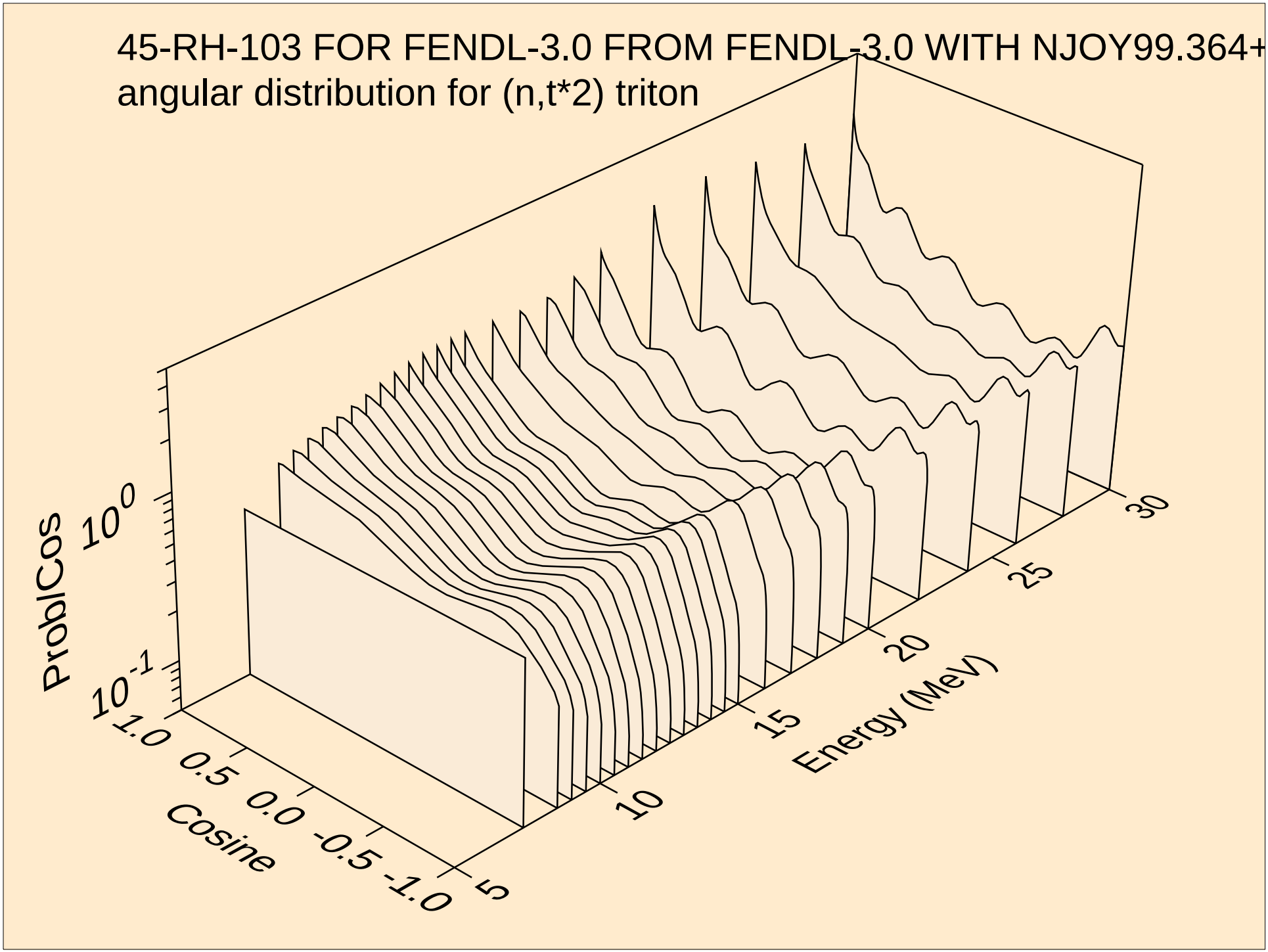

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
tritons from (n,x)
Prob/MeV
10-2
10-4
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

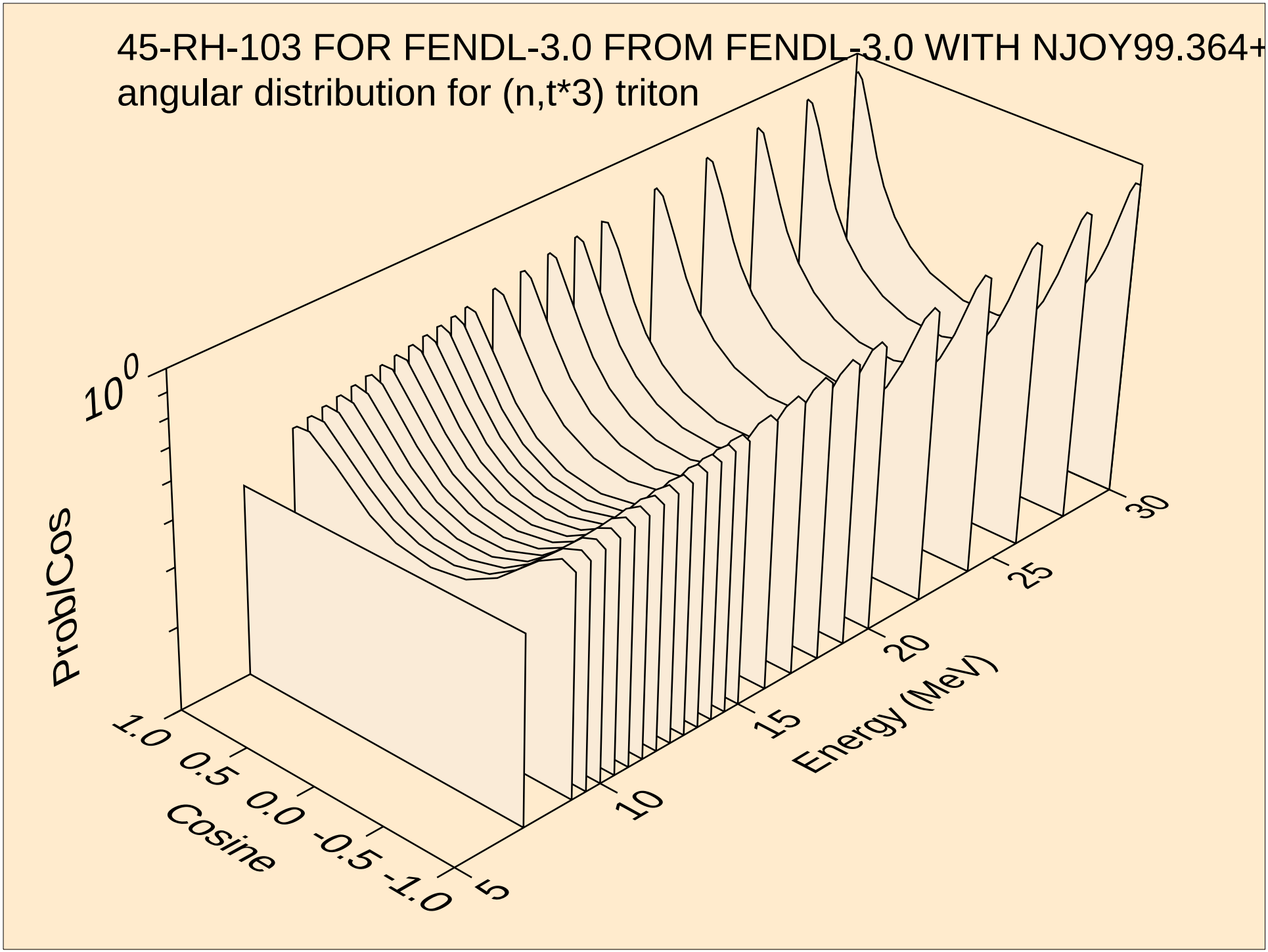

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
tritons from (n,n*)t
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

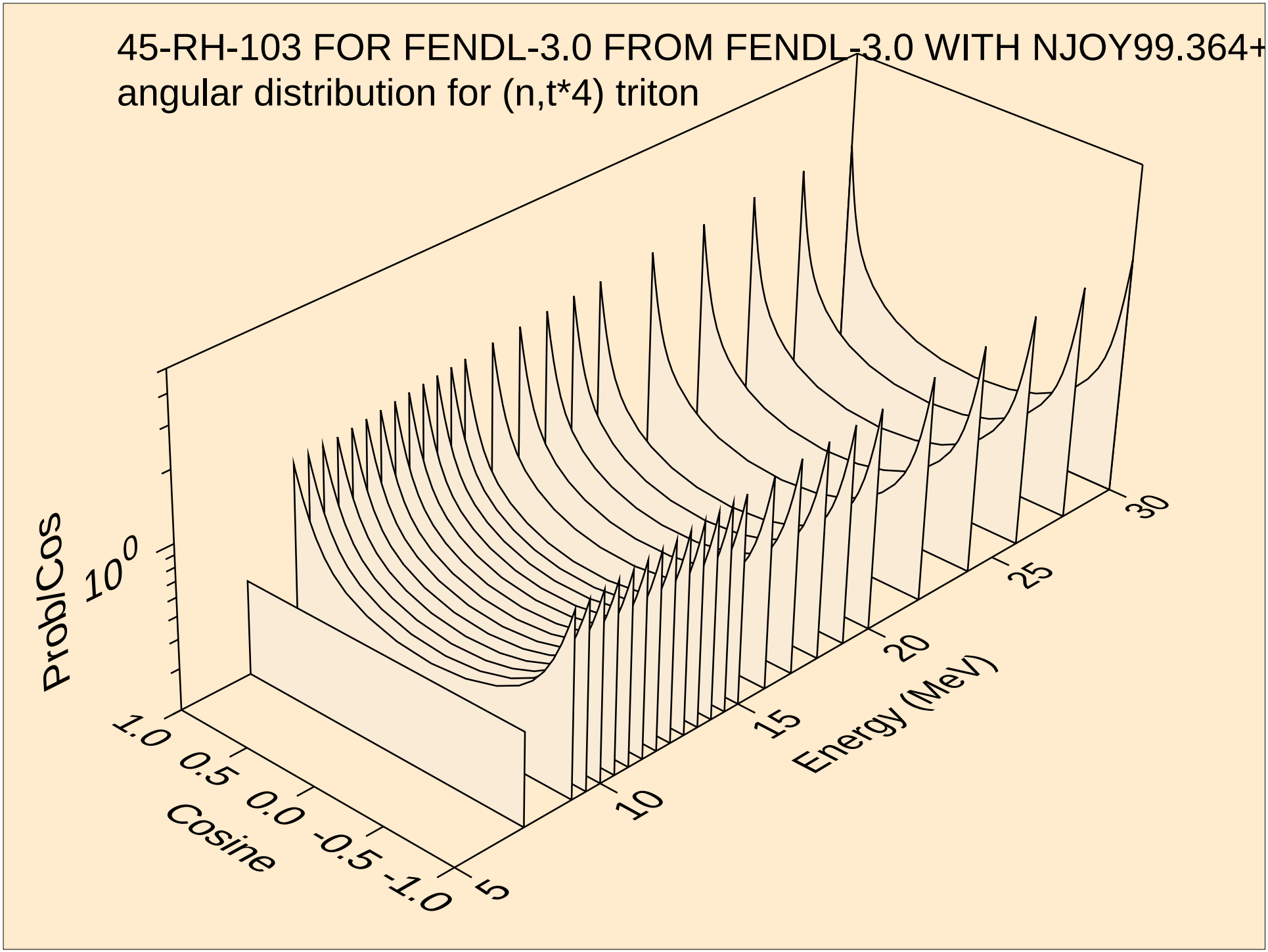

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
tritons from (n,pt)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
5
10
15
Sec. Energy
16
18
20
22
24
26
28
30
Energy (MeV)

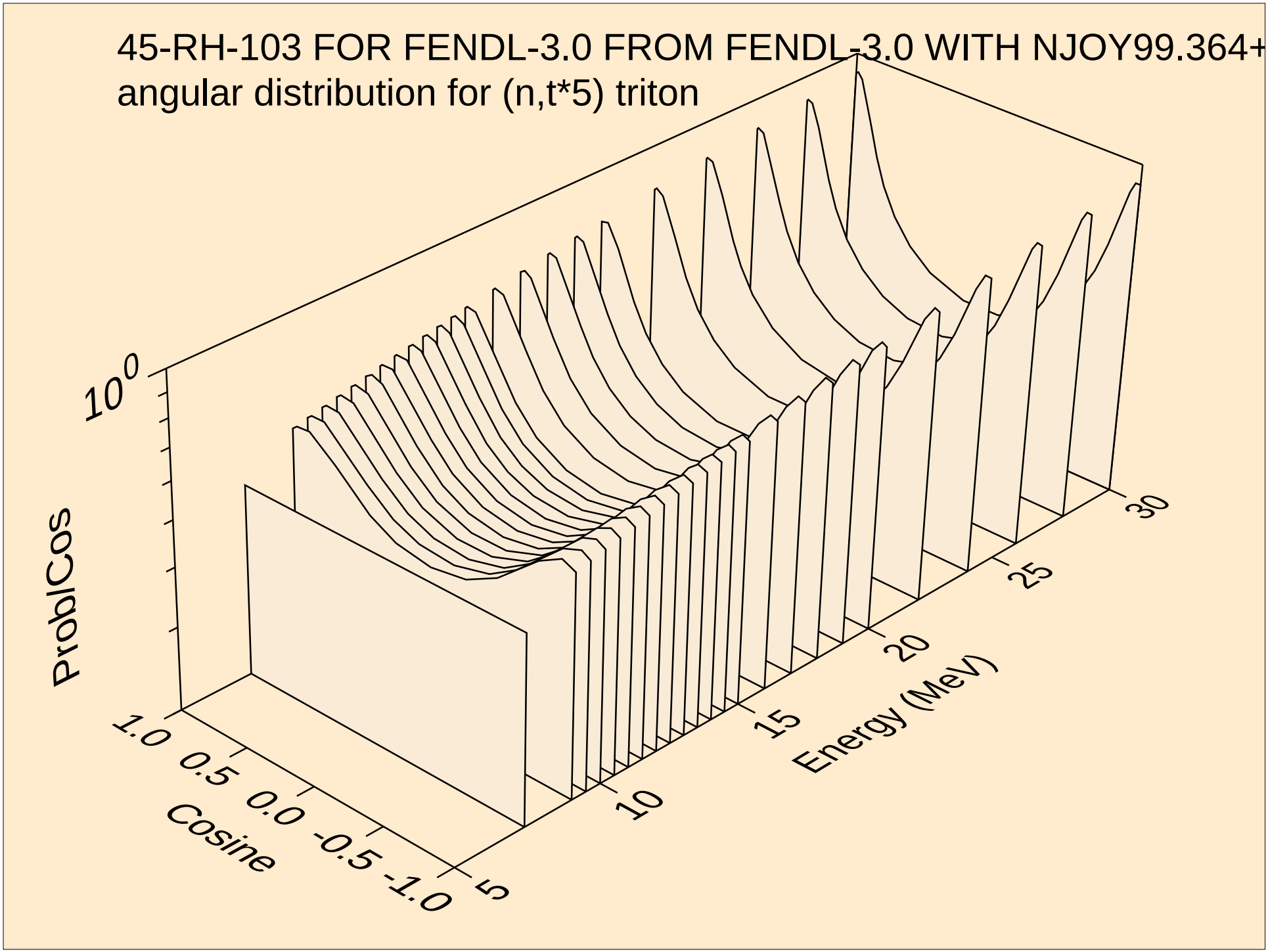

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*0) triton
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

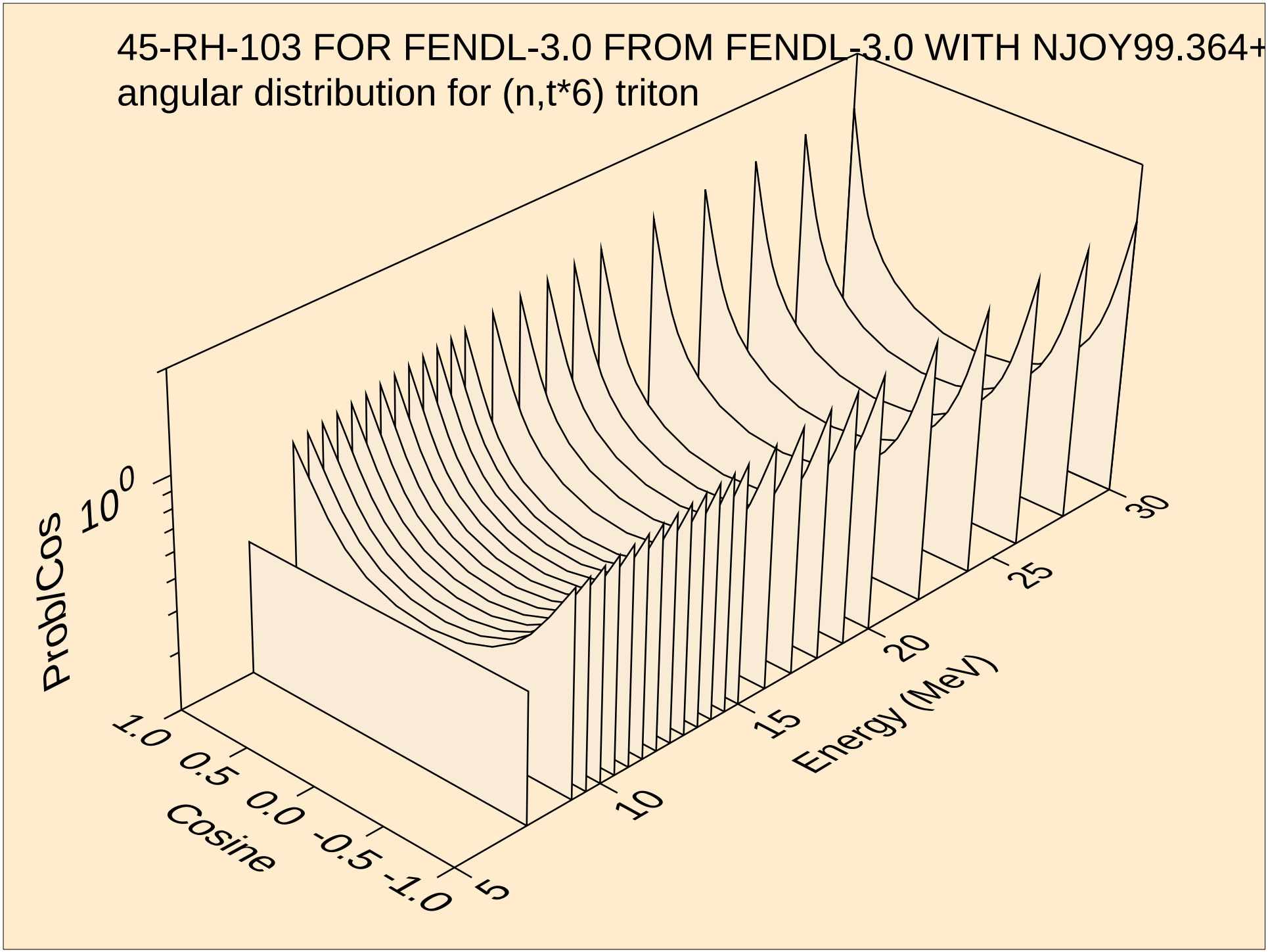

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*1) triton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

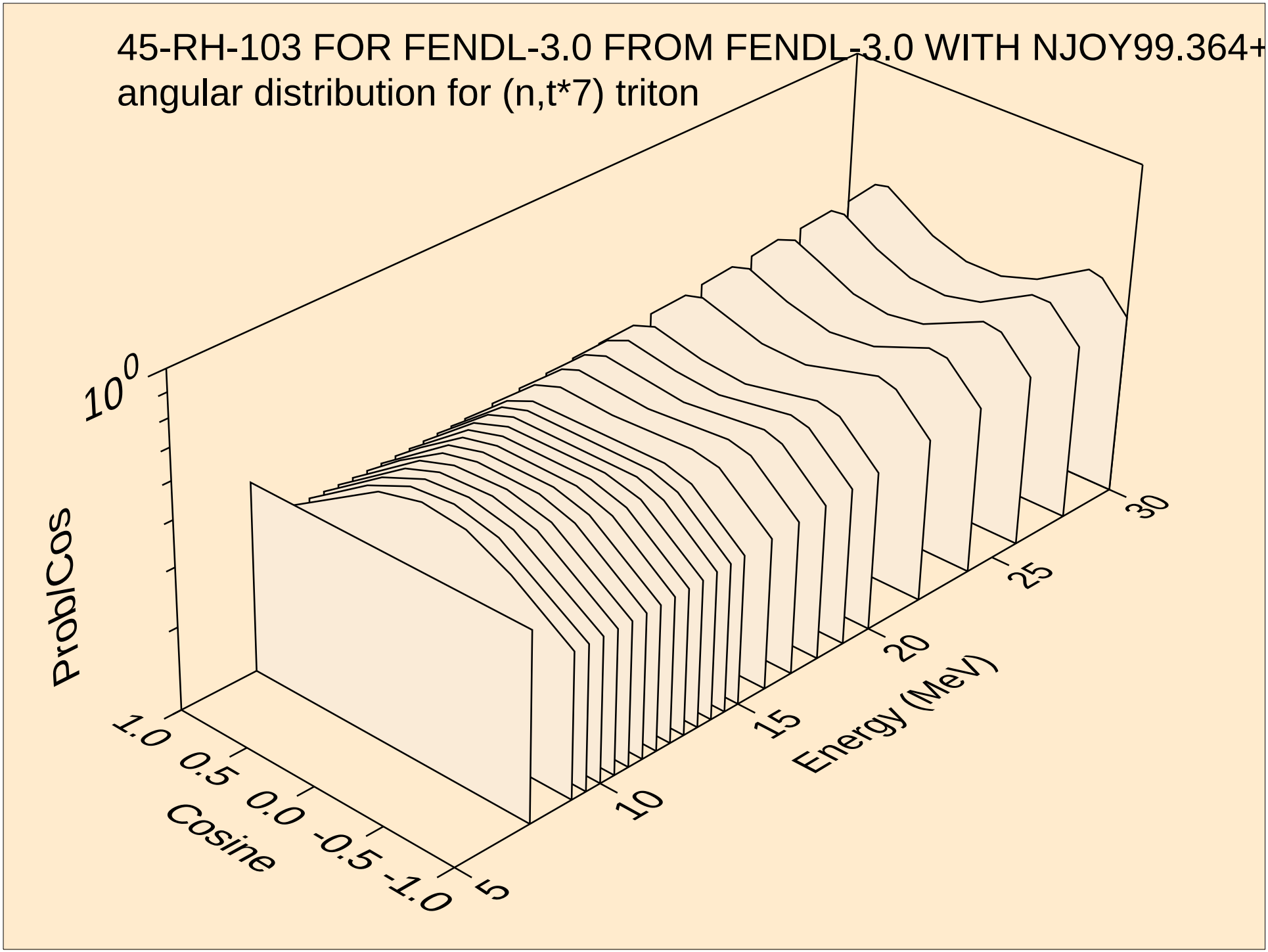

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*2) triton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

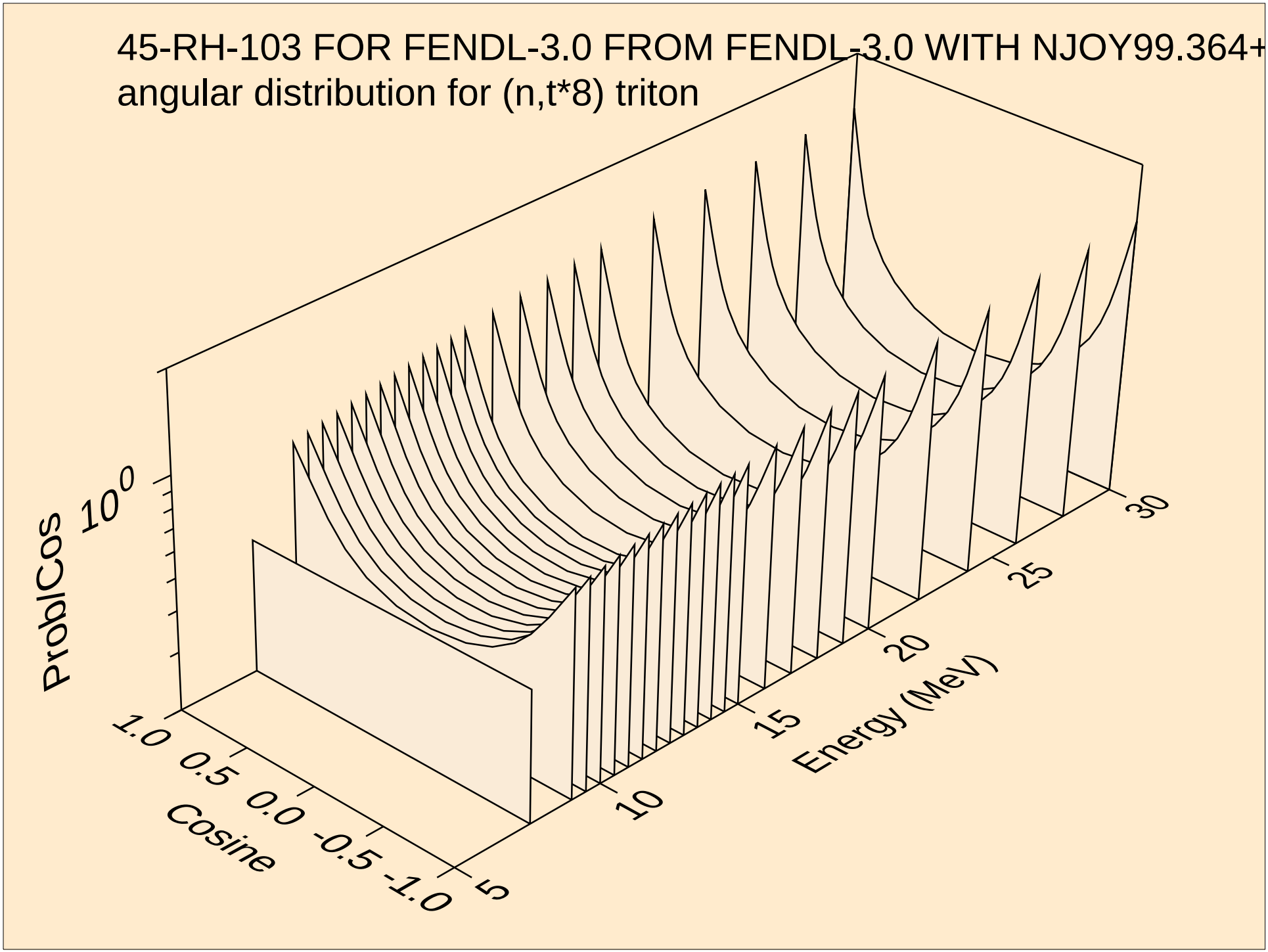

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*3) triton
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

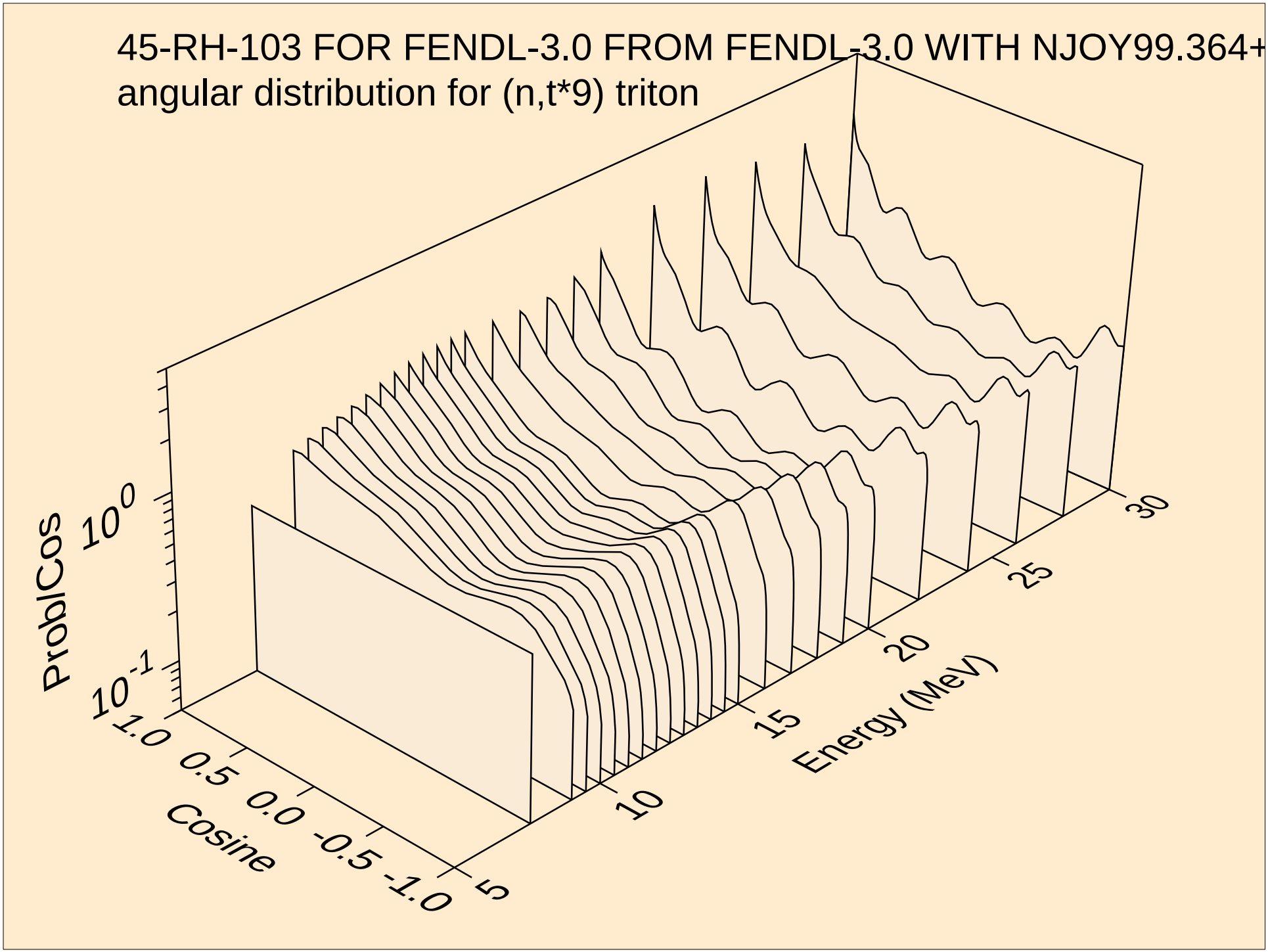

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*4) triton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

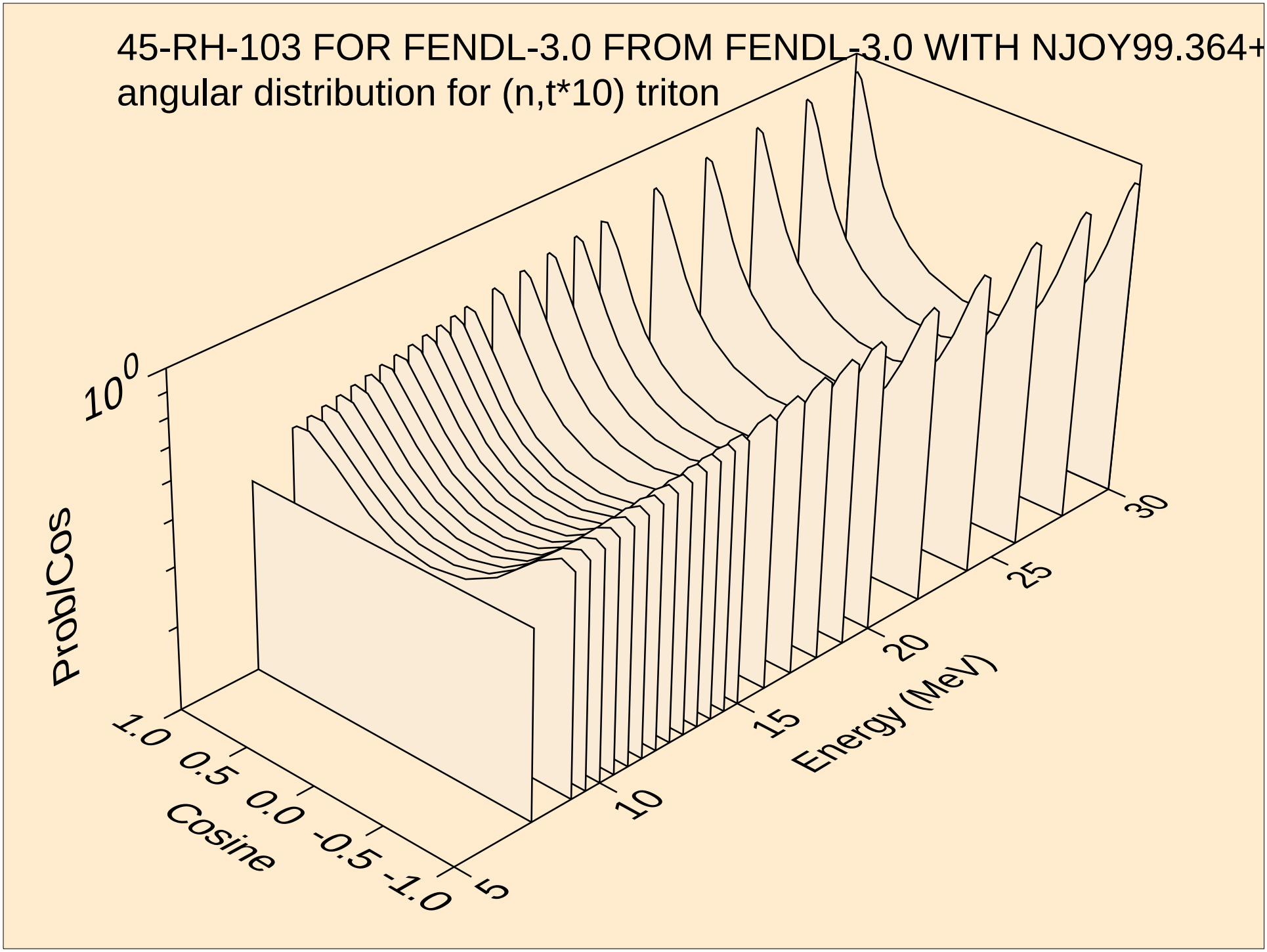

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*5) triton
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

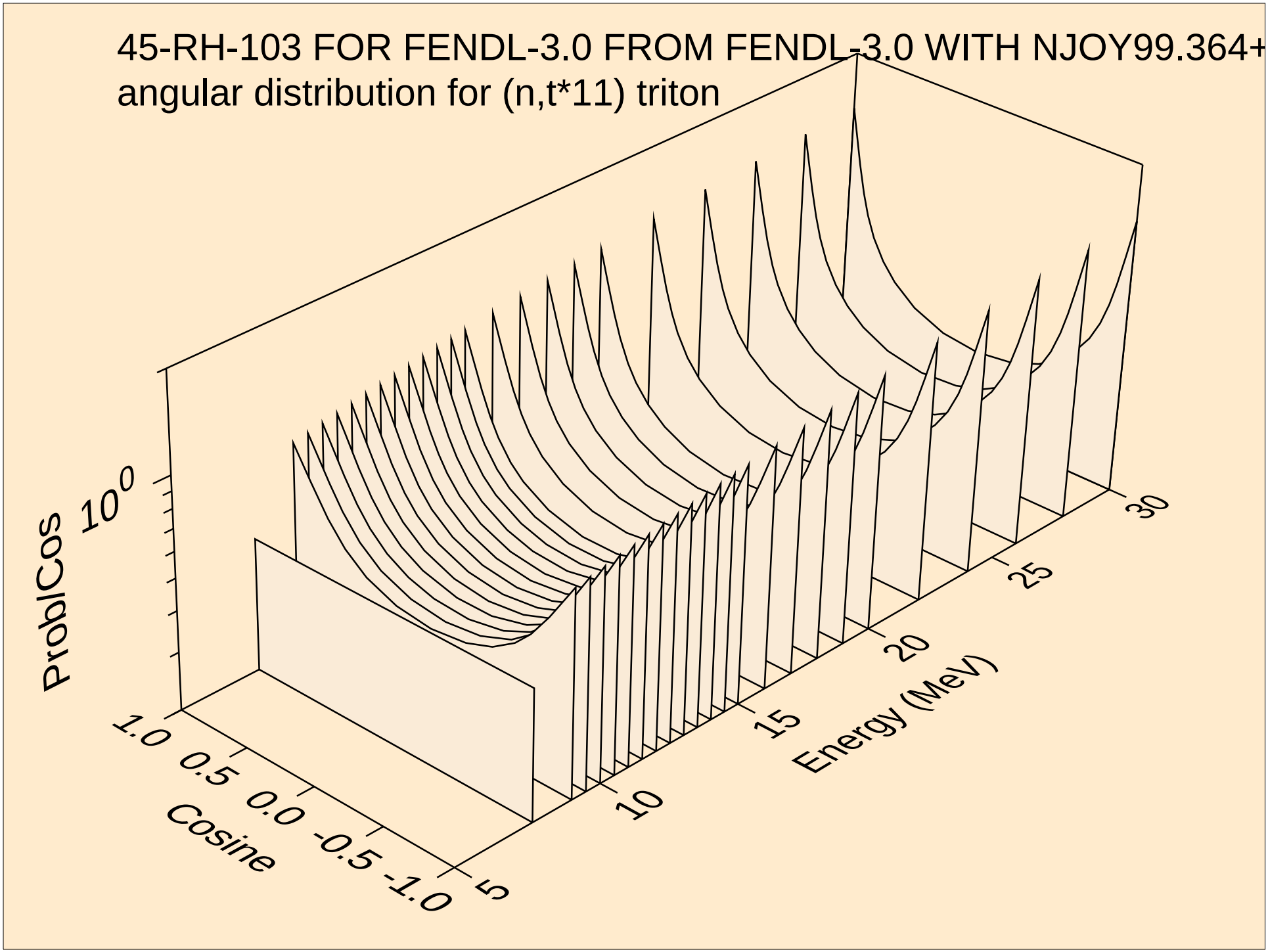

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*6) triton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

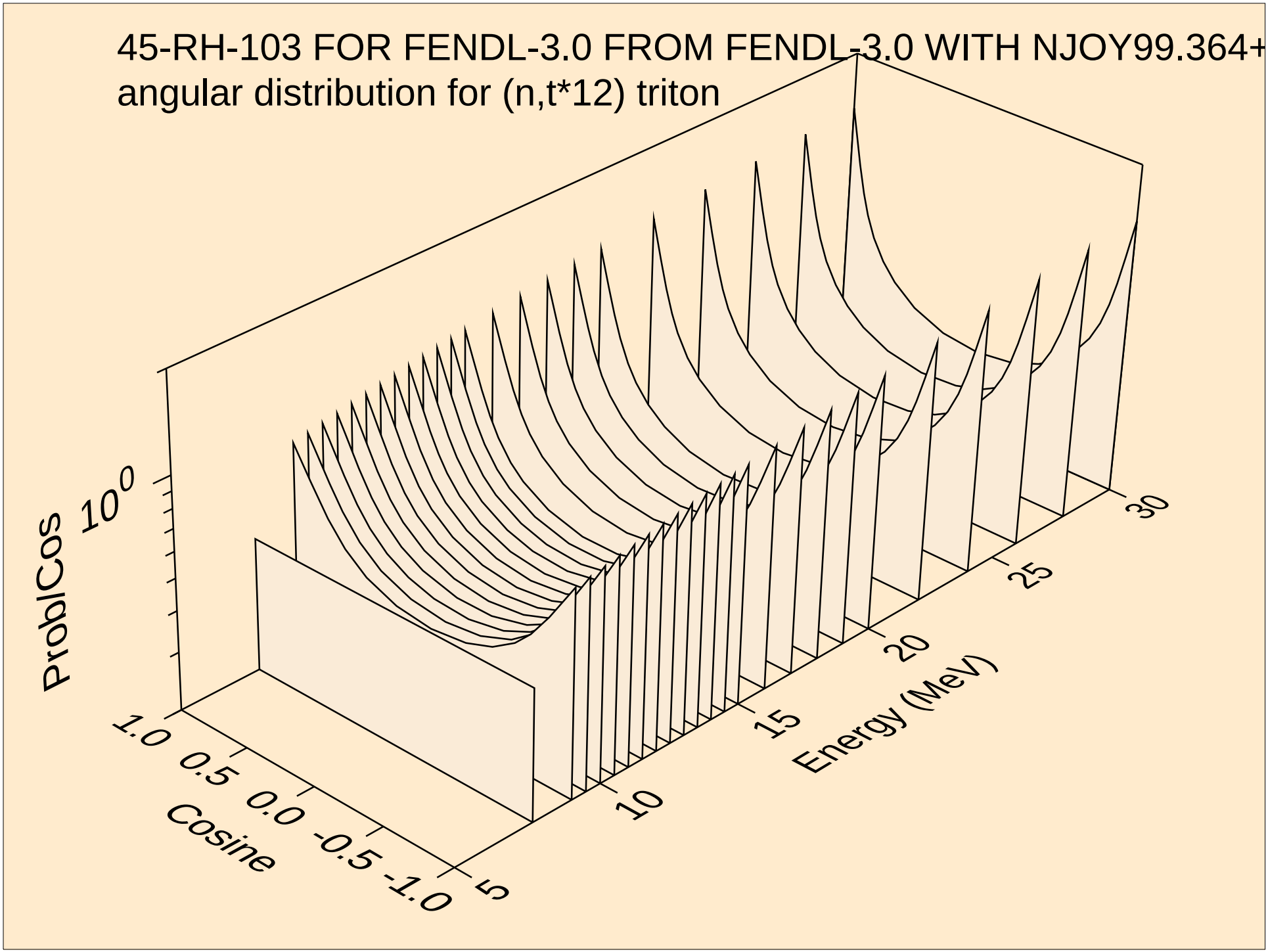

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*7) triton
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

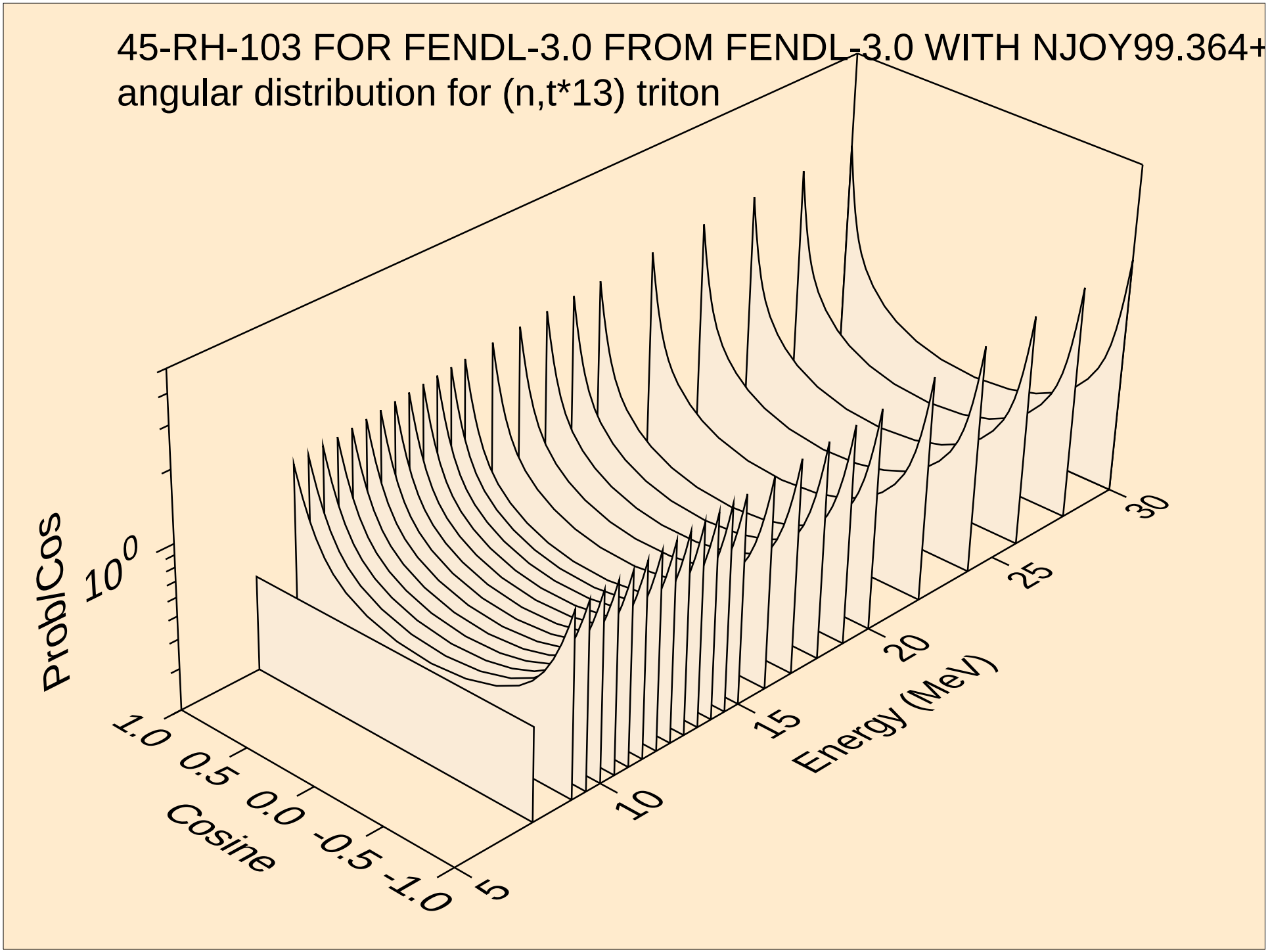

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*8) triton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

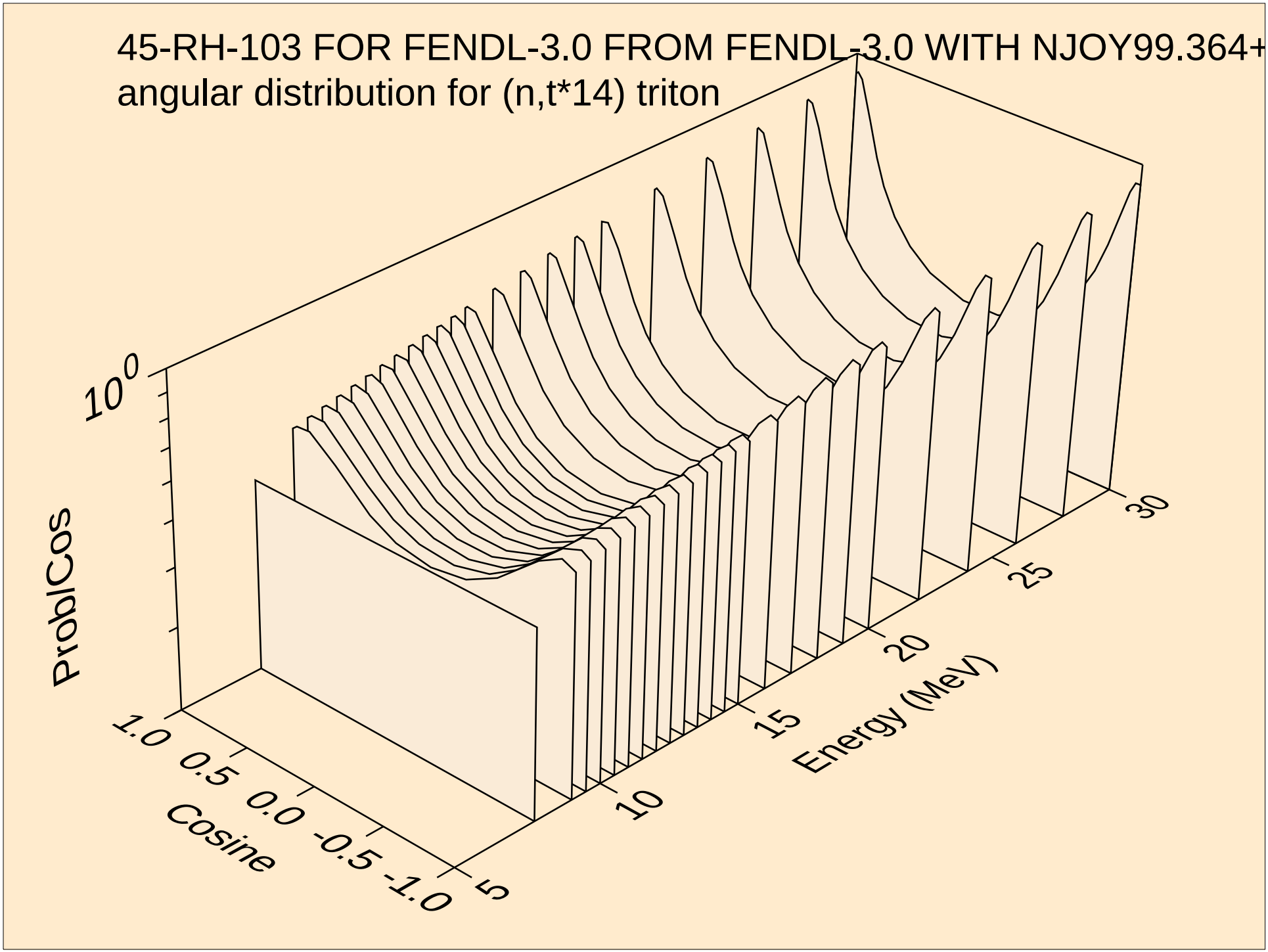

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*9) triton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

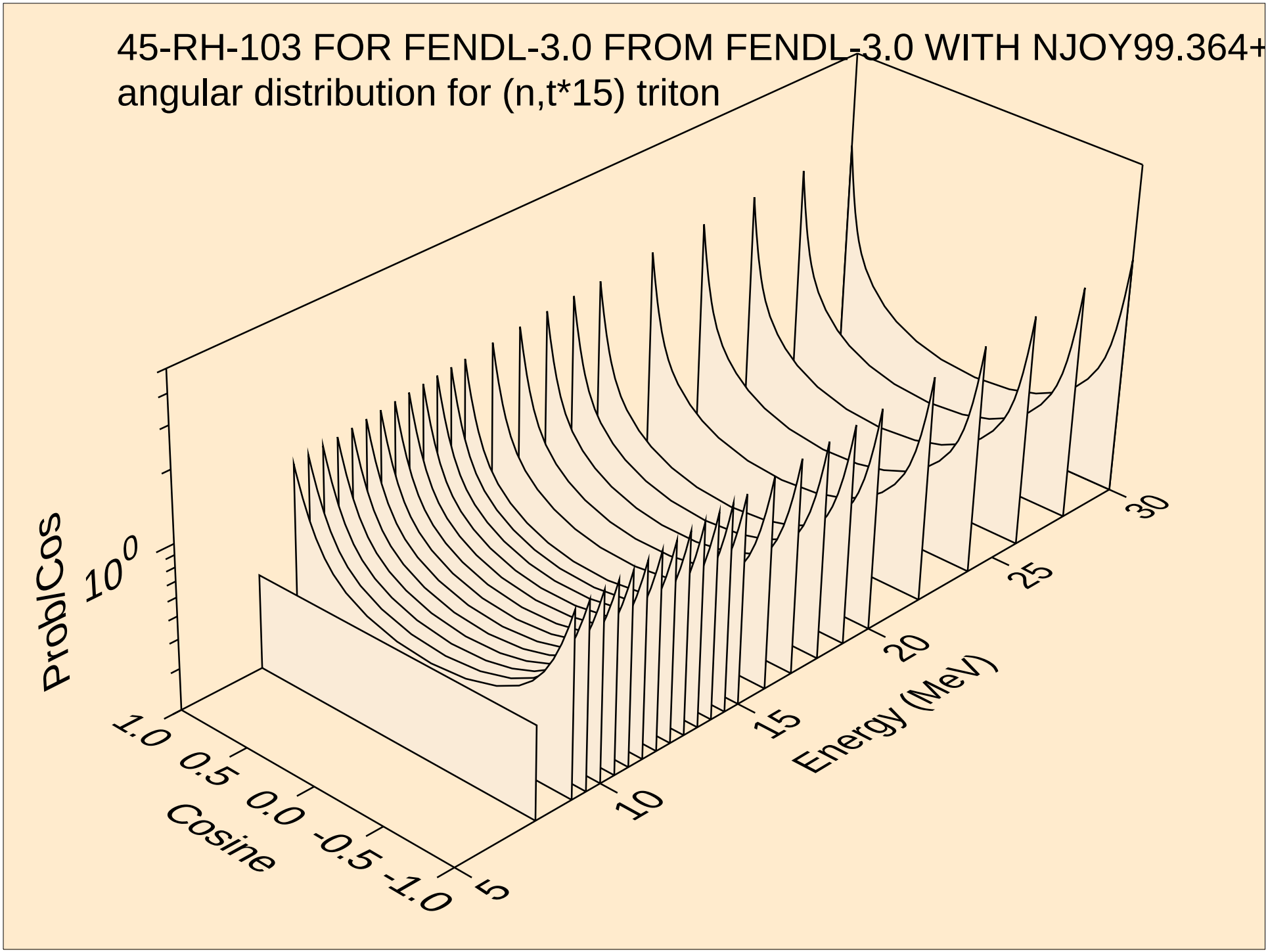

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*10) triton
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

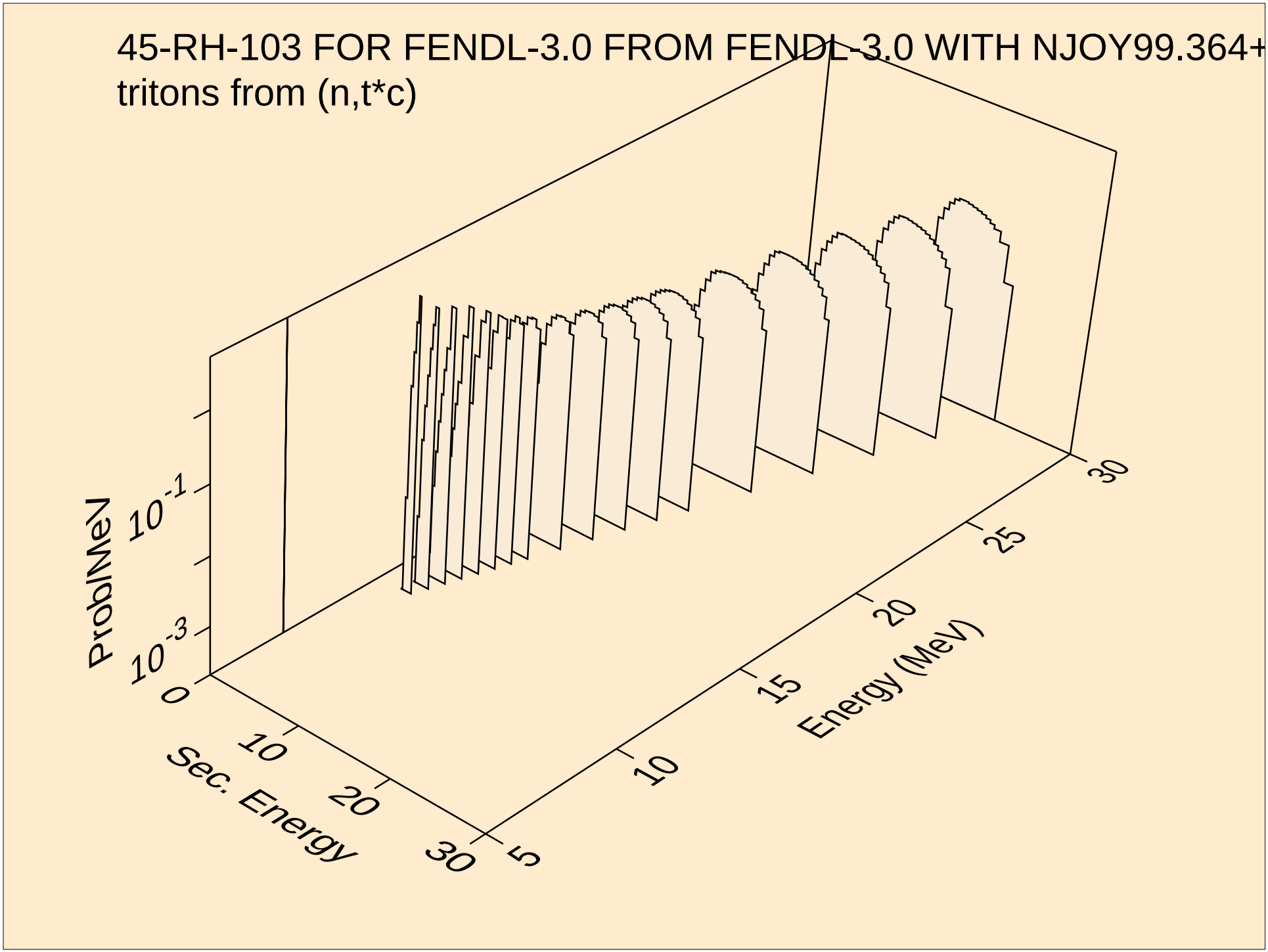

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*11) triton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

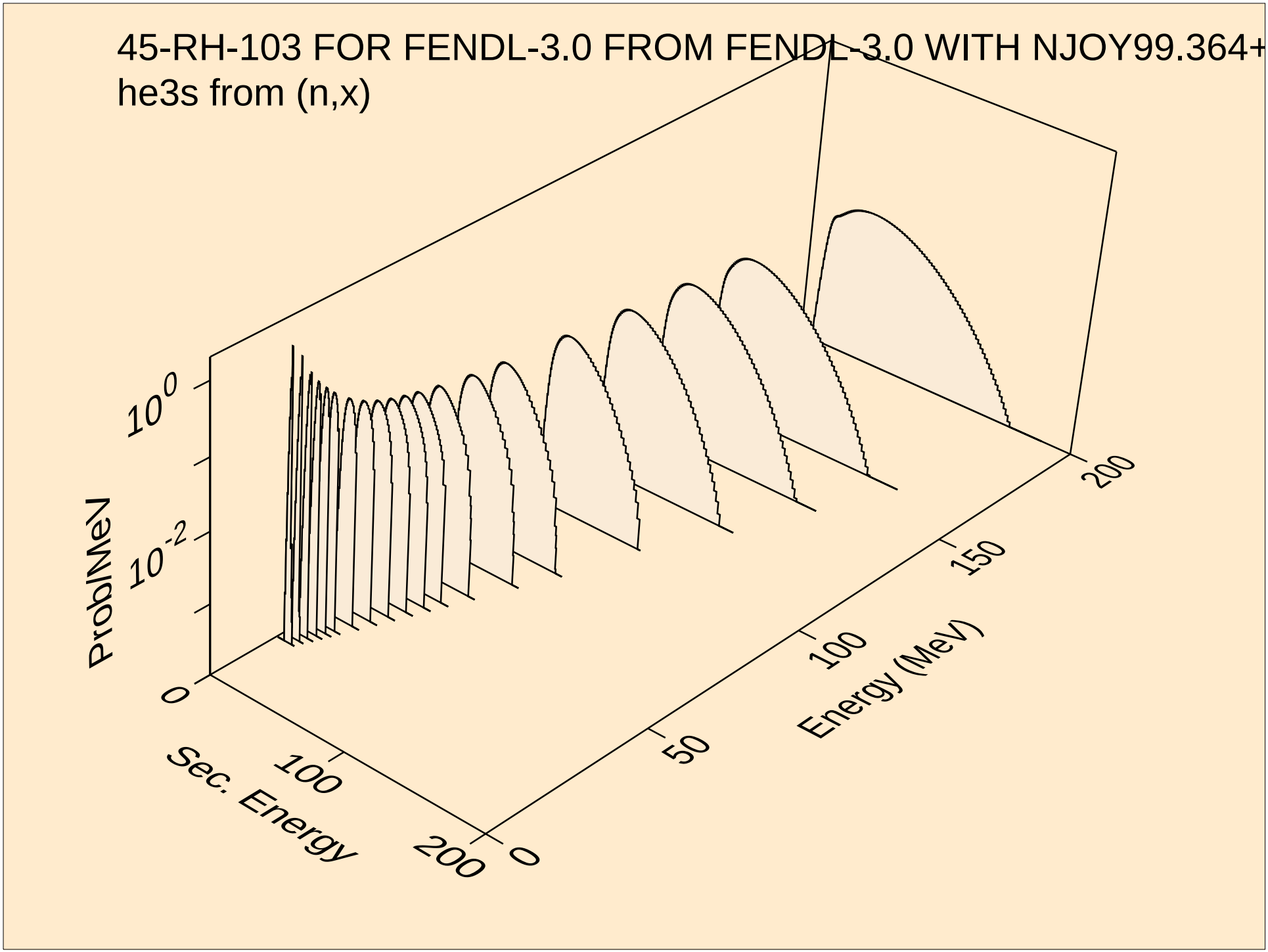

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*12) triton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

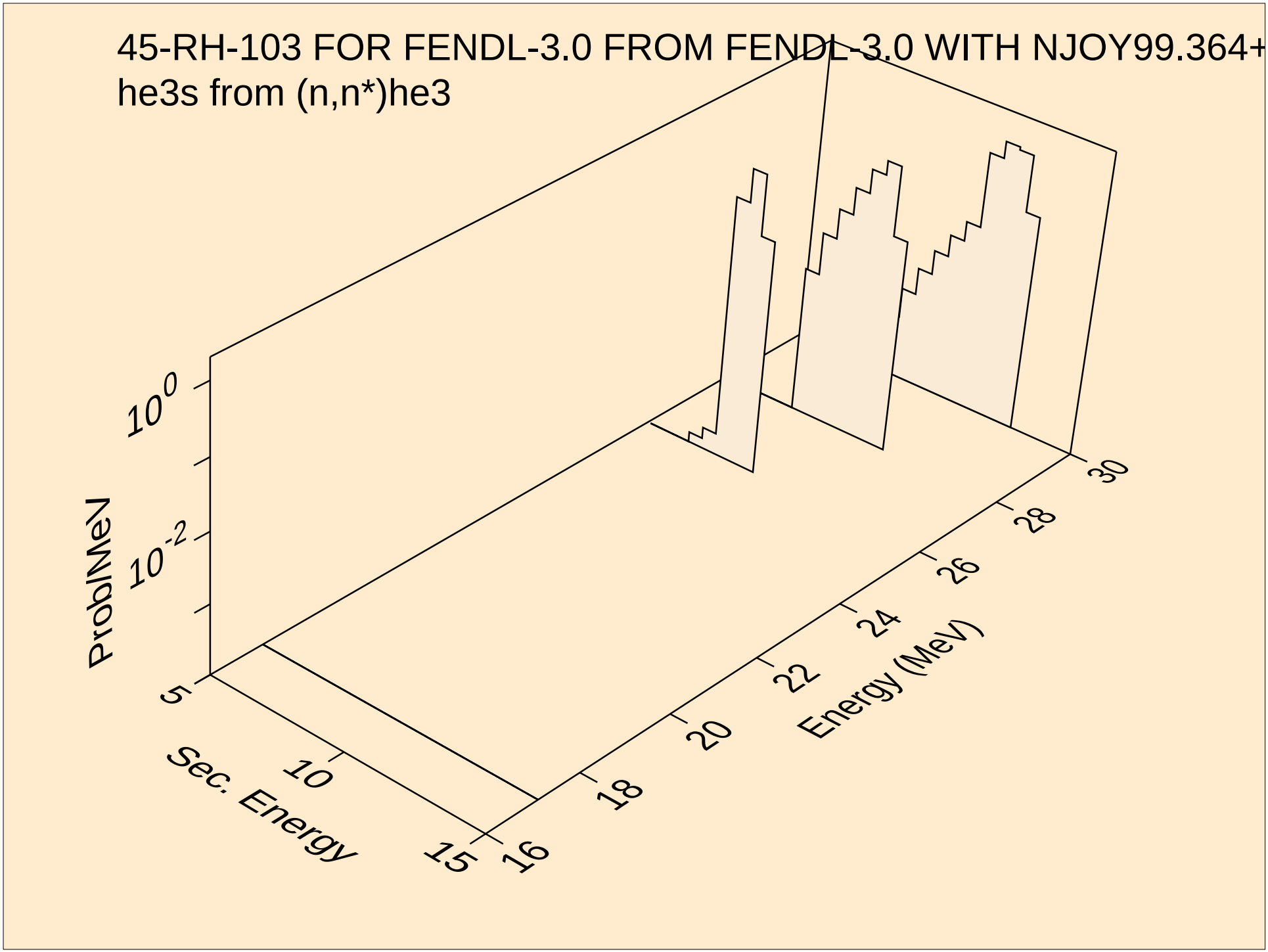

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*13) triton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

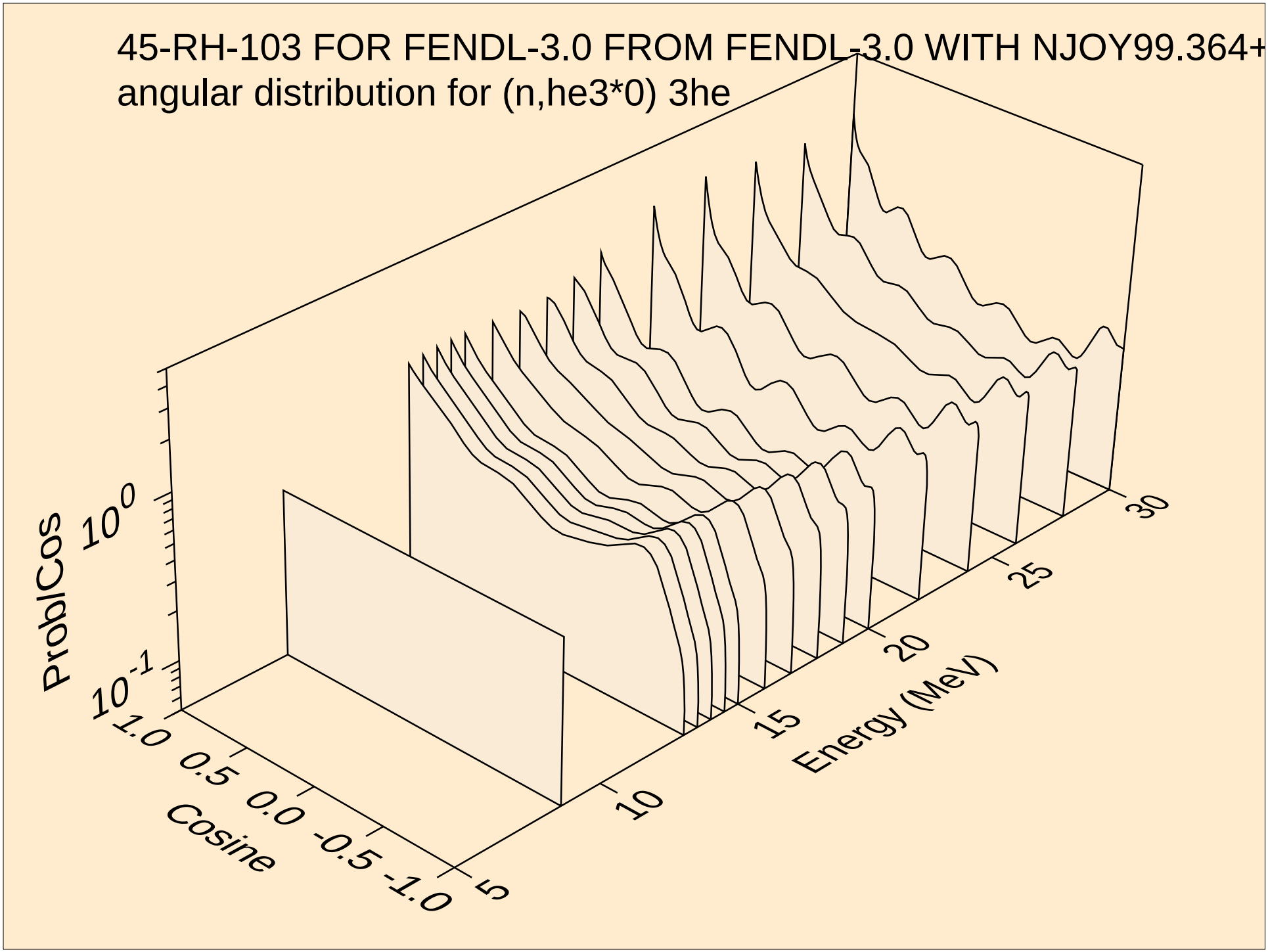

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*14) triton
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

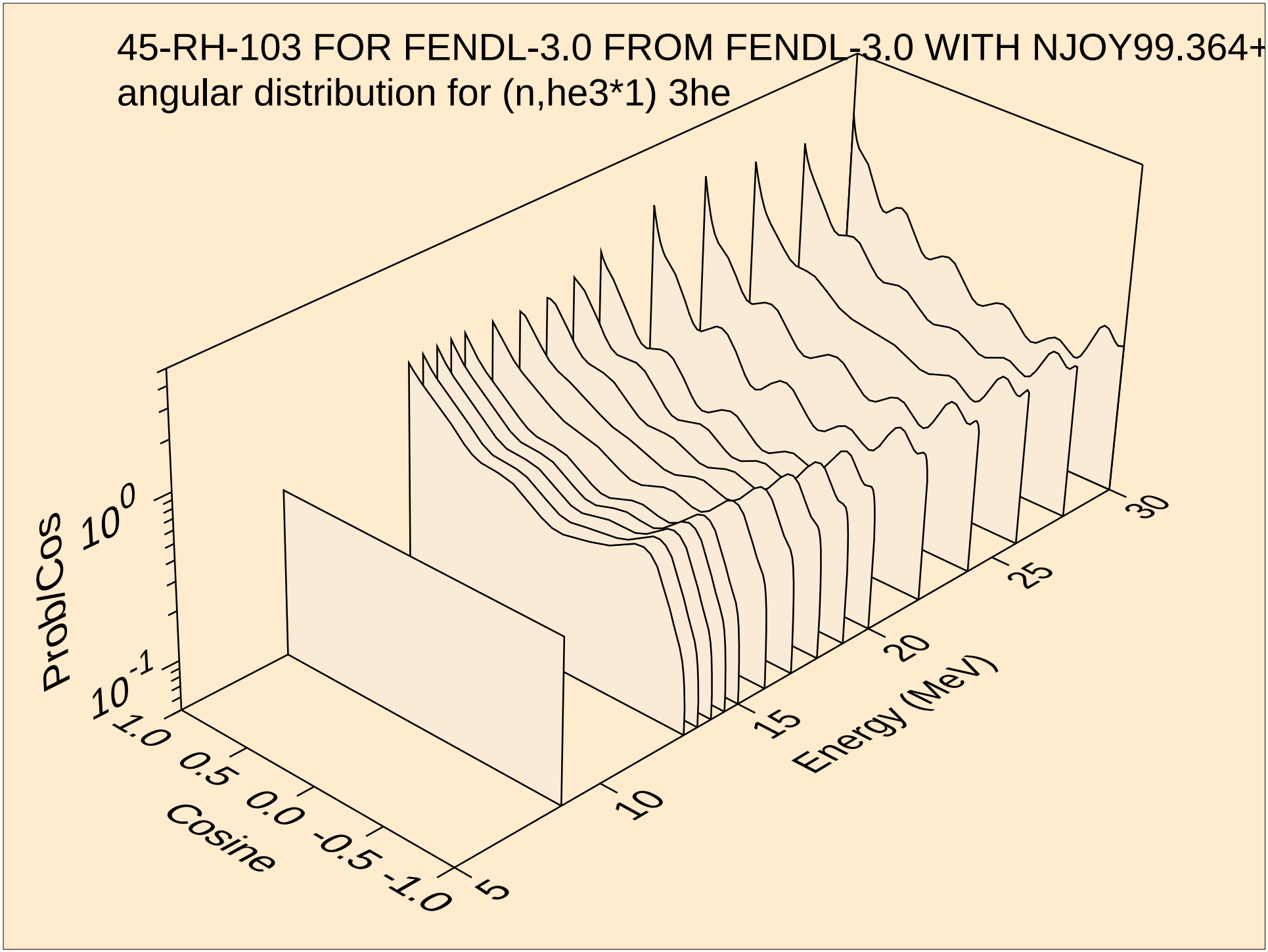

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,t*15) triton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

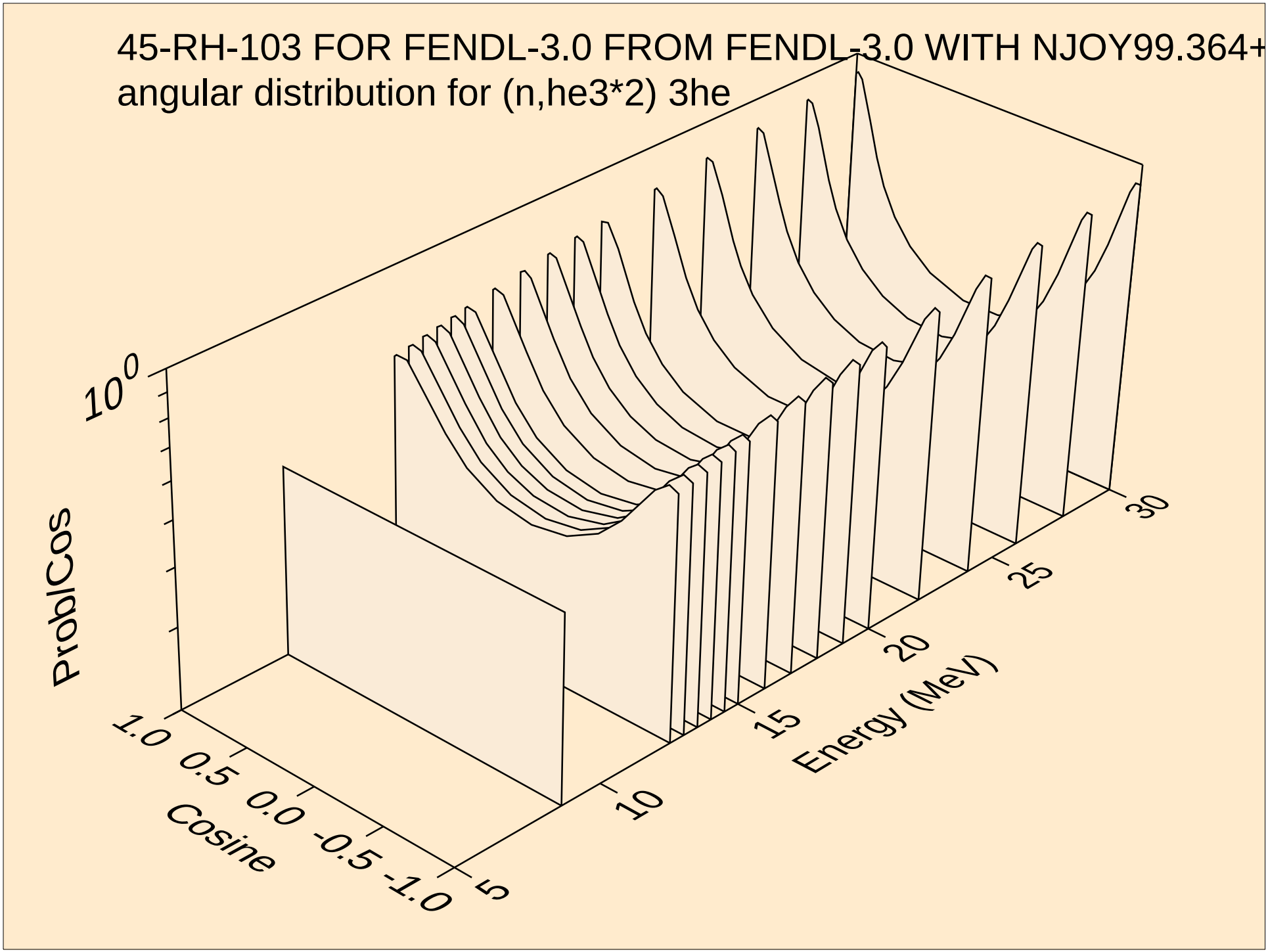

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
tritons from (n,t*c)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

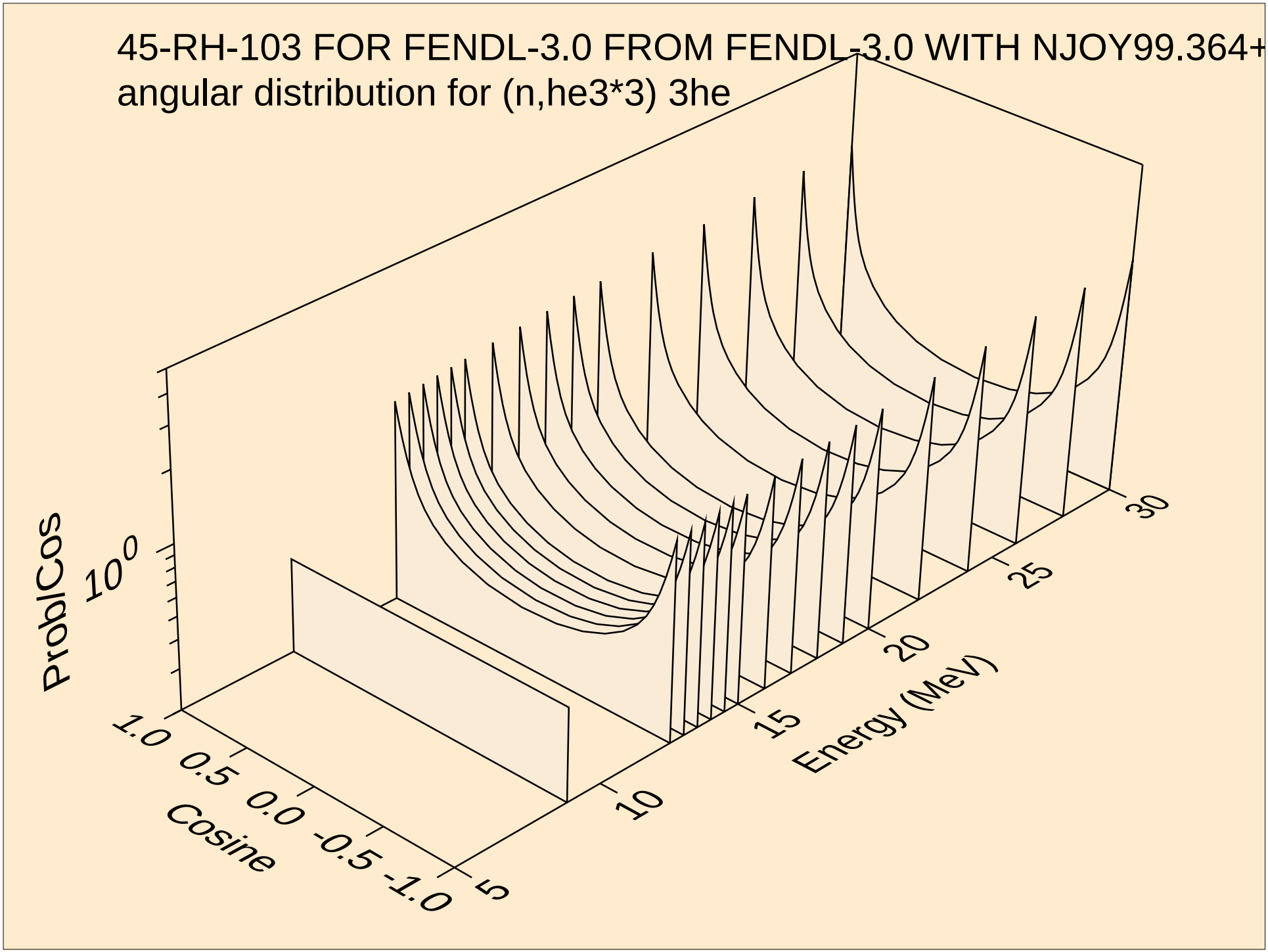

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
he3s from (n,x)
Prob/MeV
10^0
10^-2
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

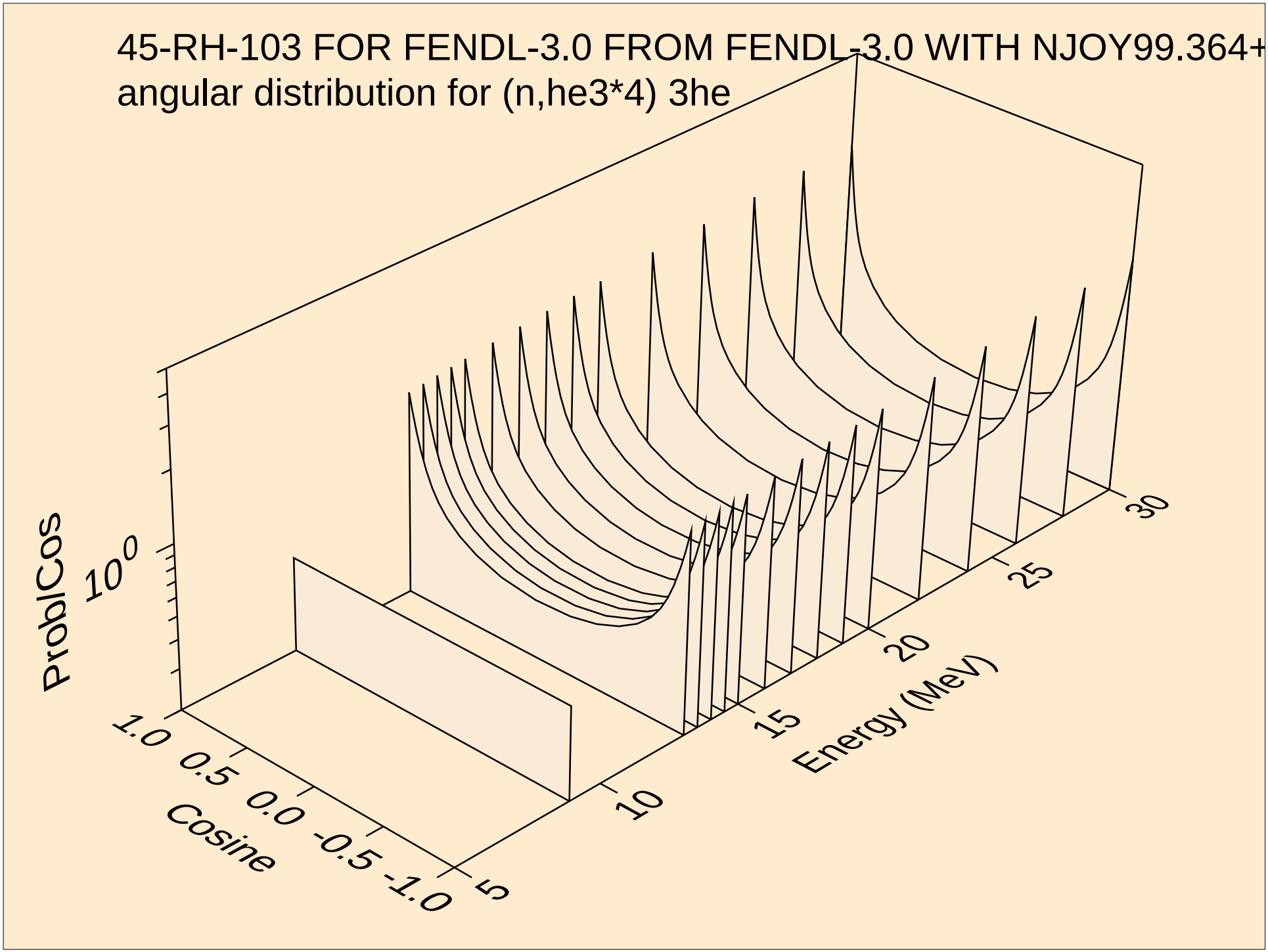

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
he3s from (n,n*)he3
Prob/MeV
10^0
10^-2
5
10
15
16
18
20
22
24
26
28
30
Sec. Energy
Energy (MeV)

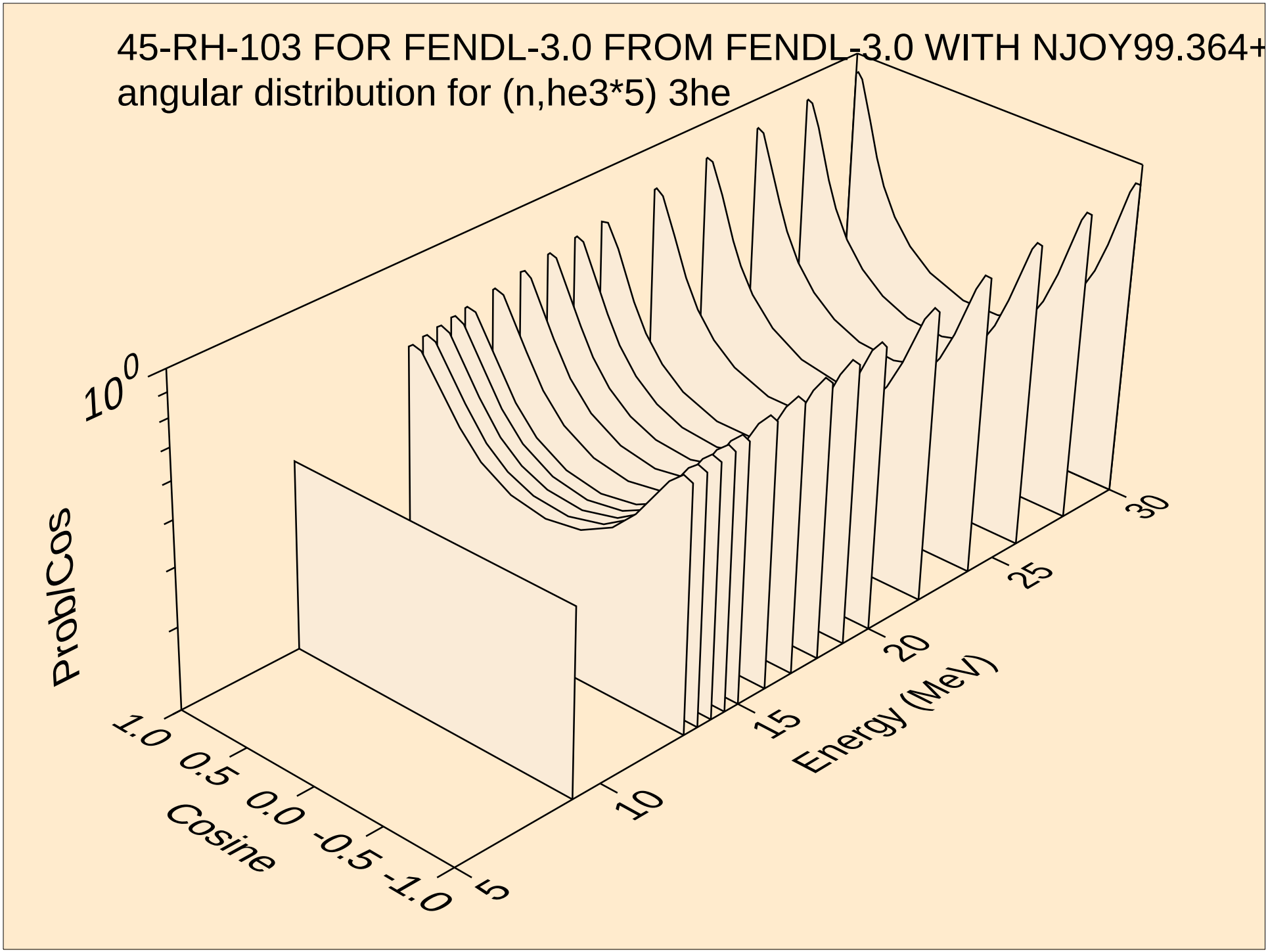

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*0) 3he
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

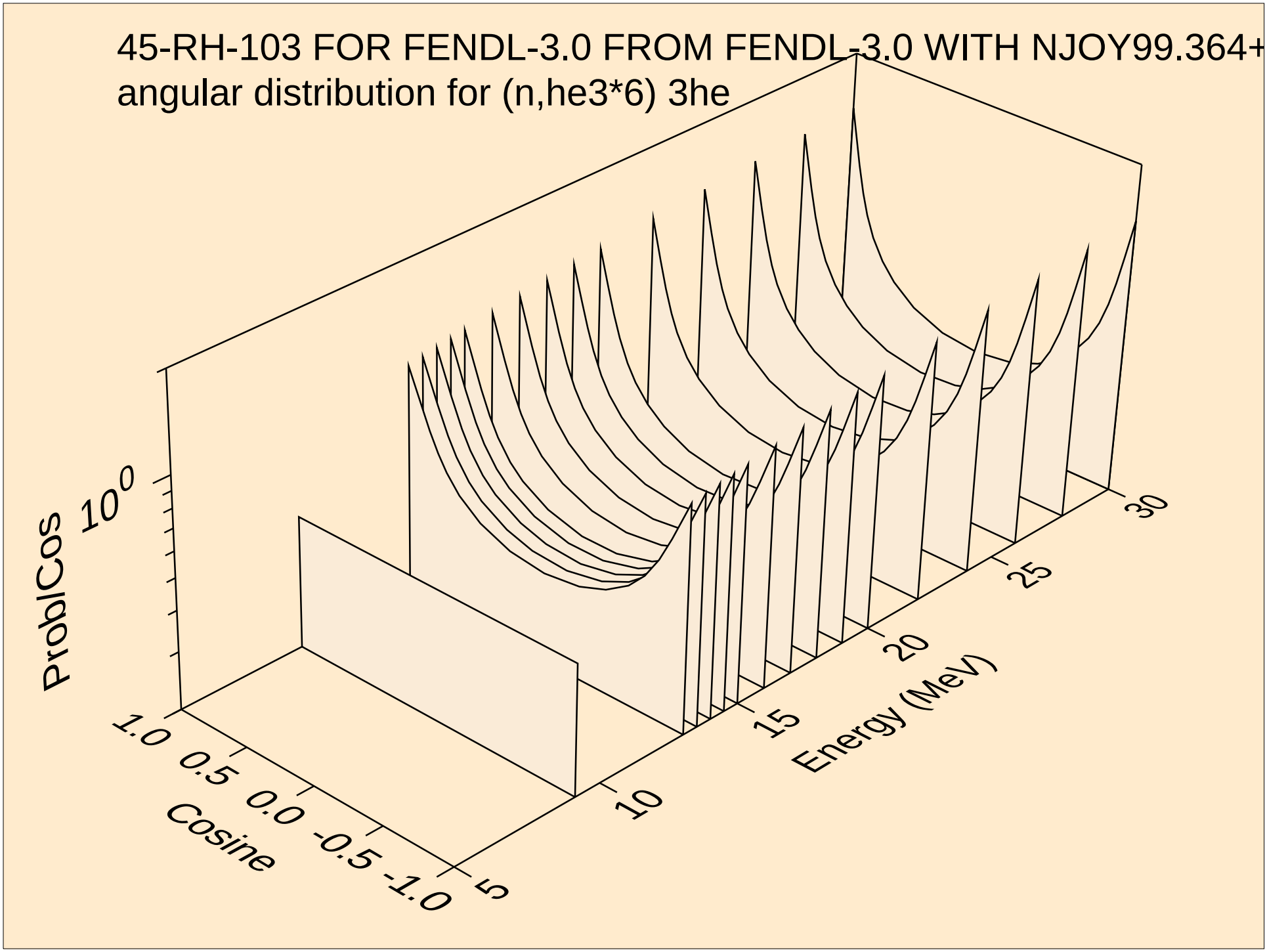

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*1) 3he
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

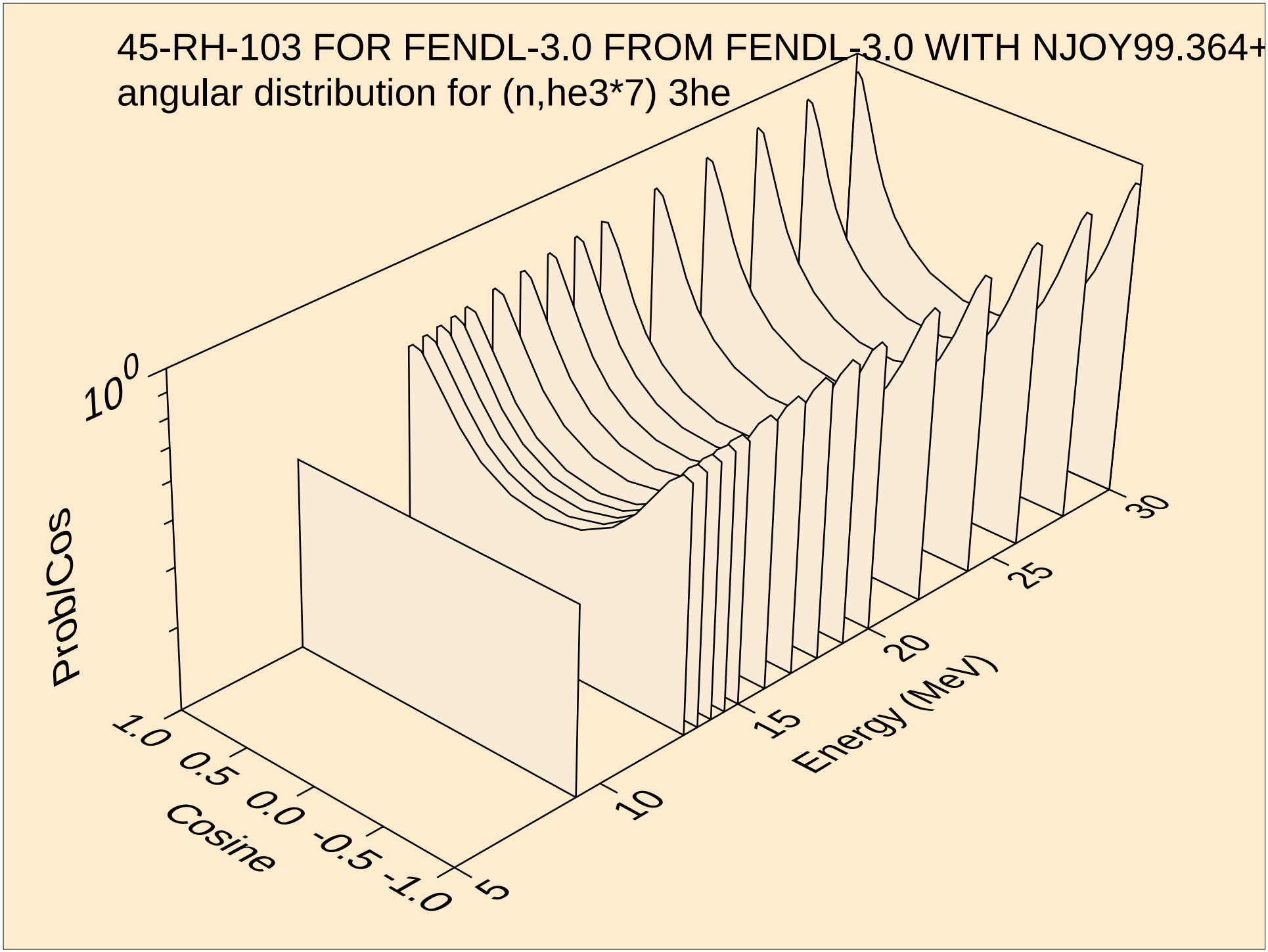

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*2) 3he
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

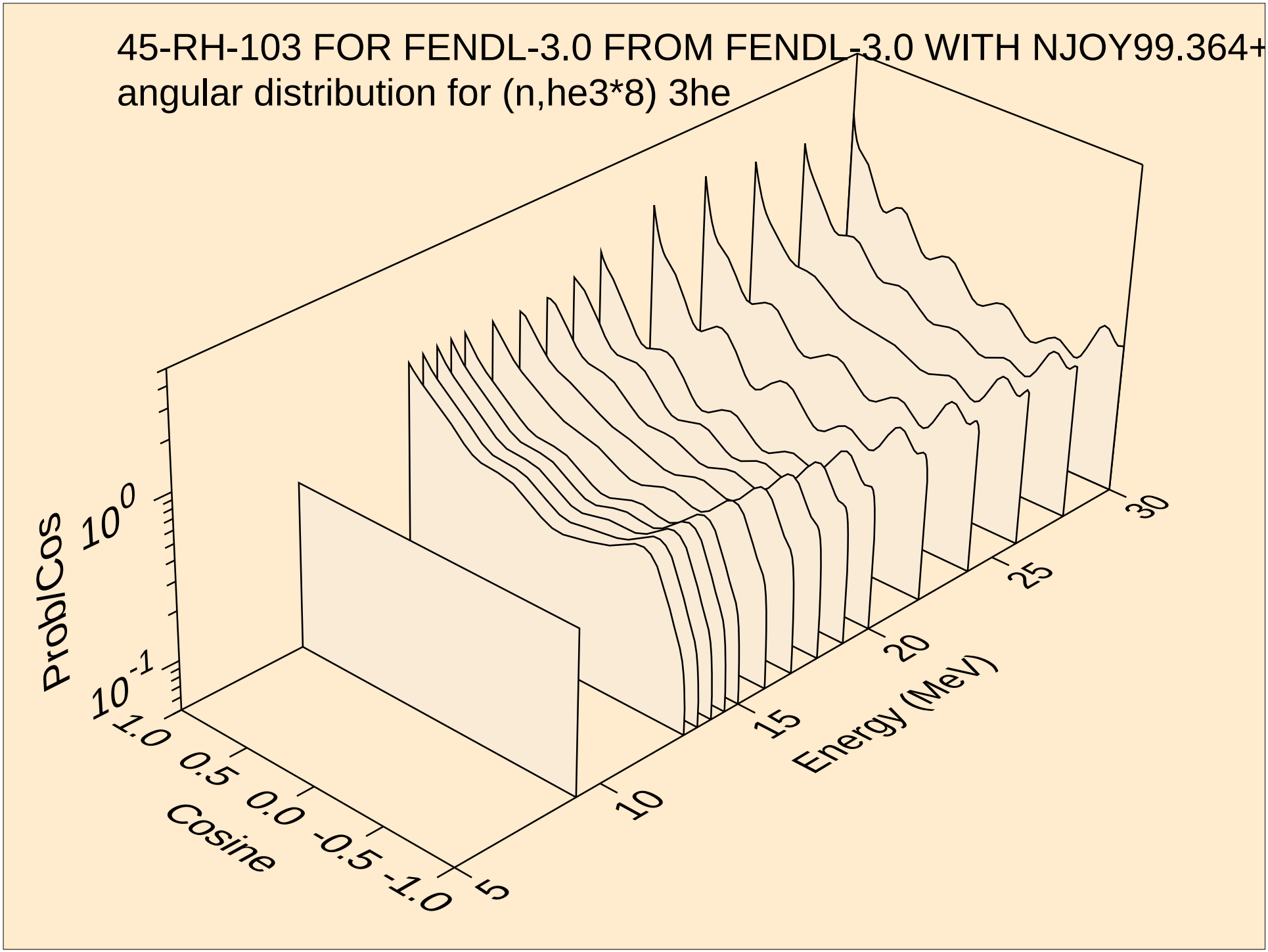

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*3) 3he
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

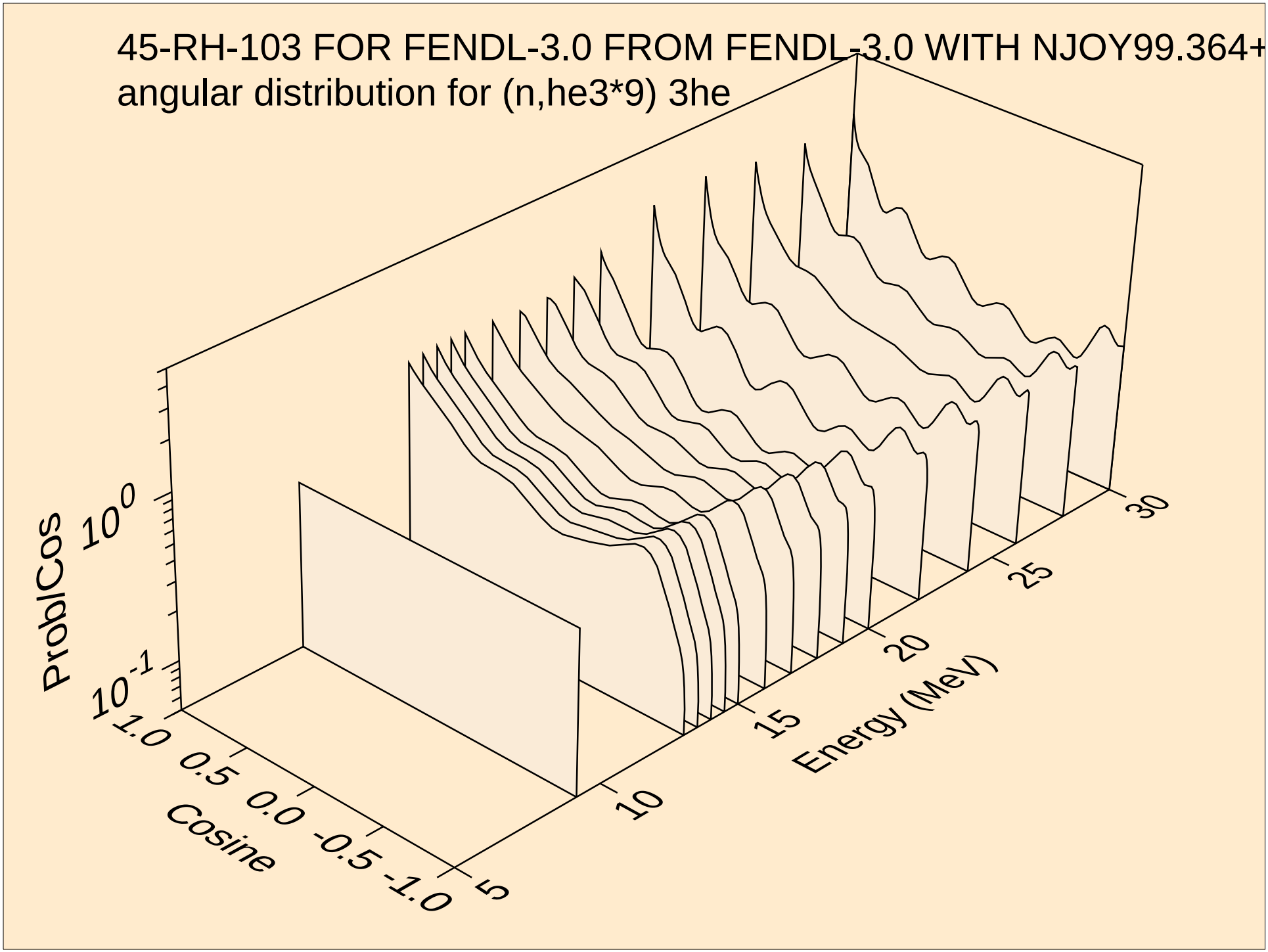

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*4) 3he
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

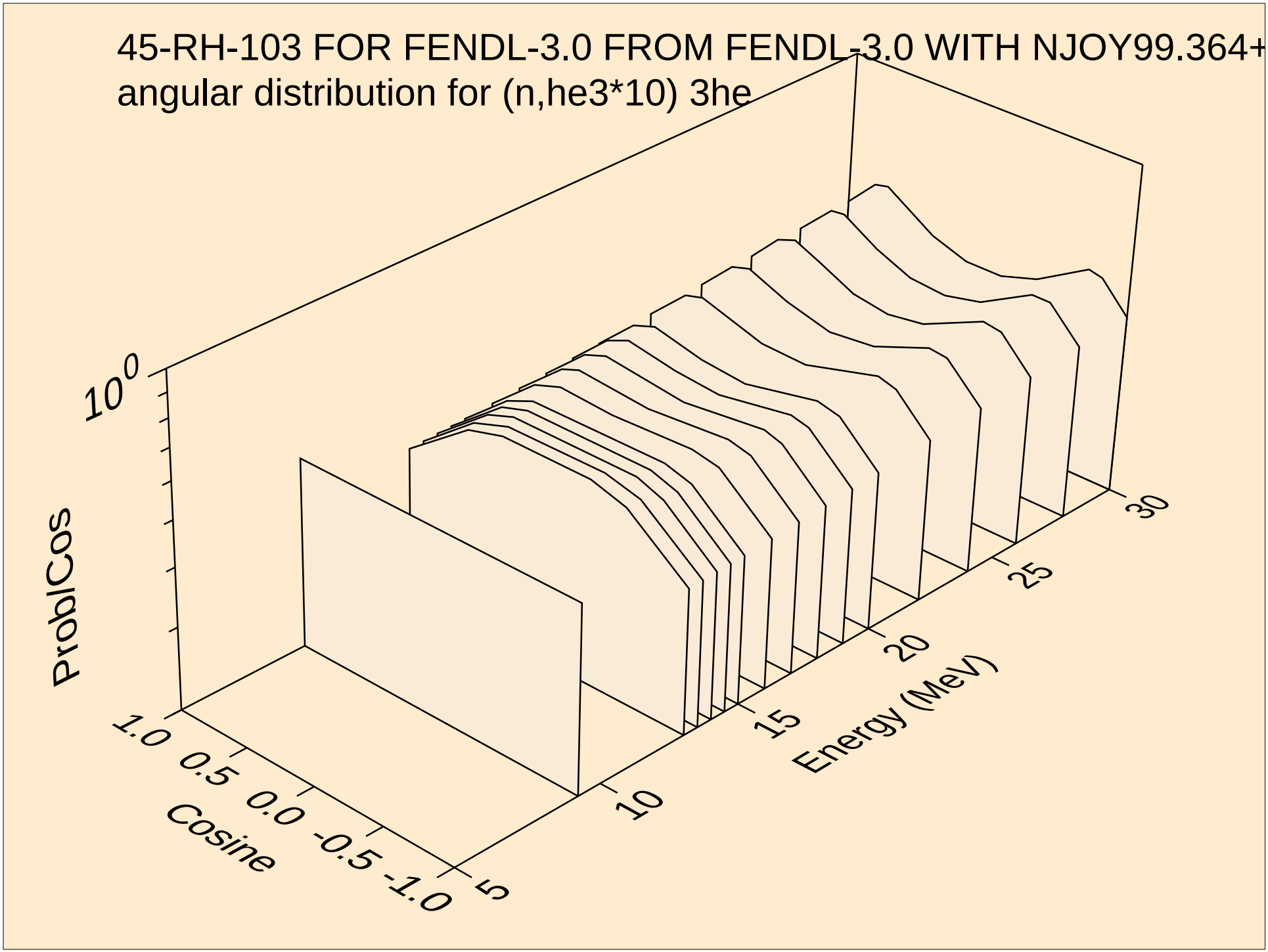

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*5) 3he
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

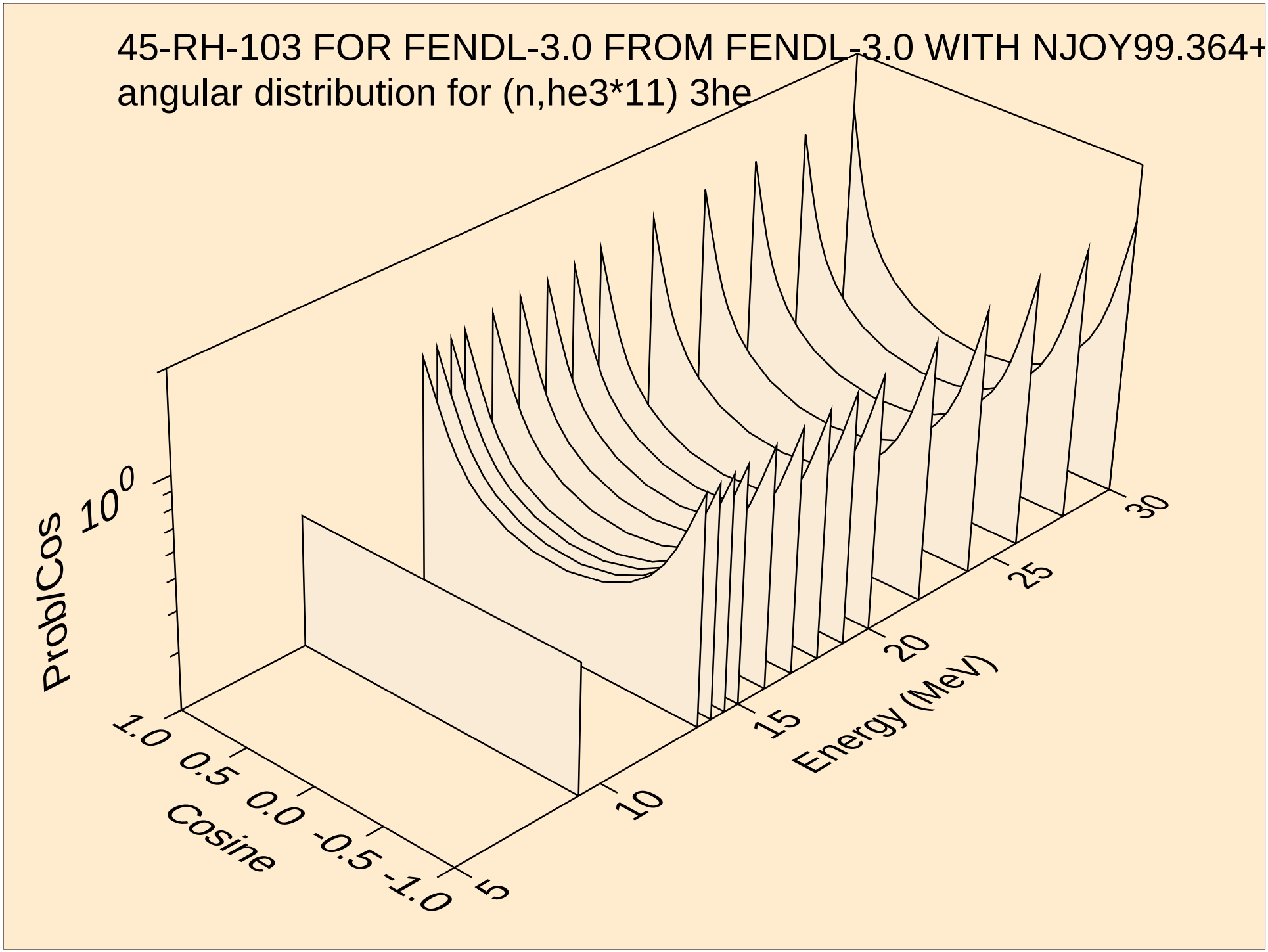

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*6) 3he
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

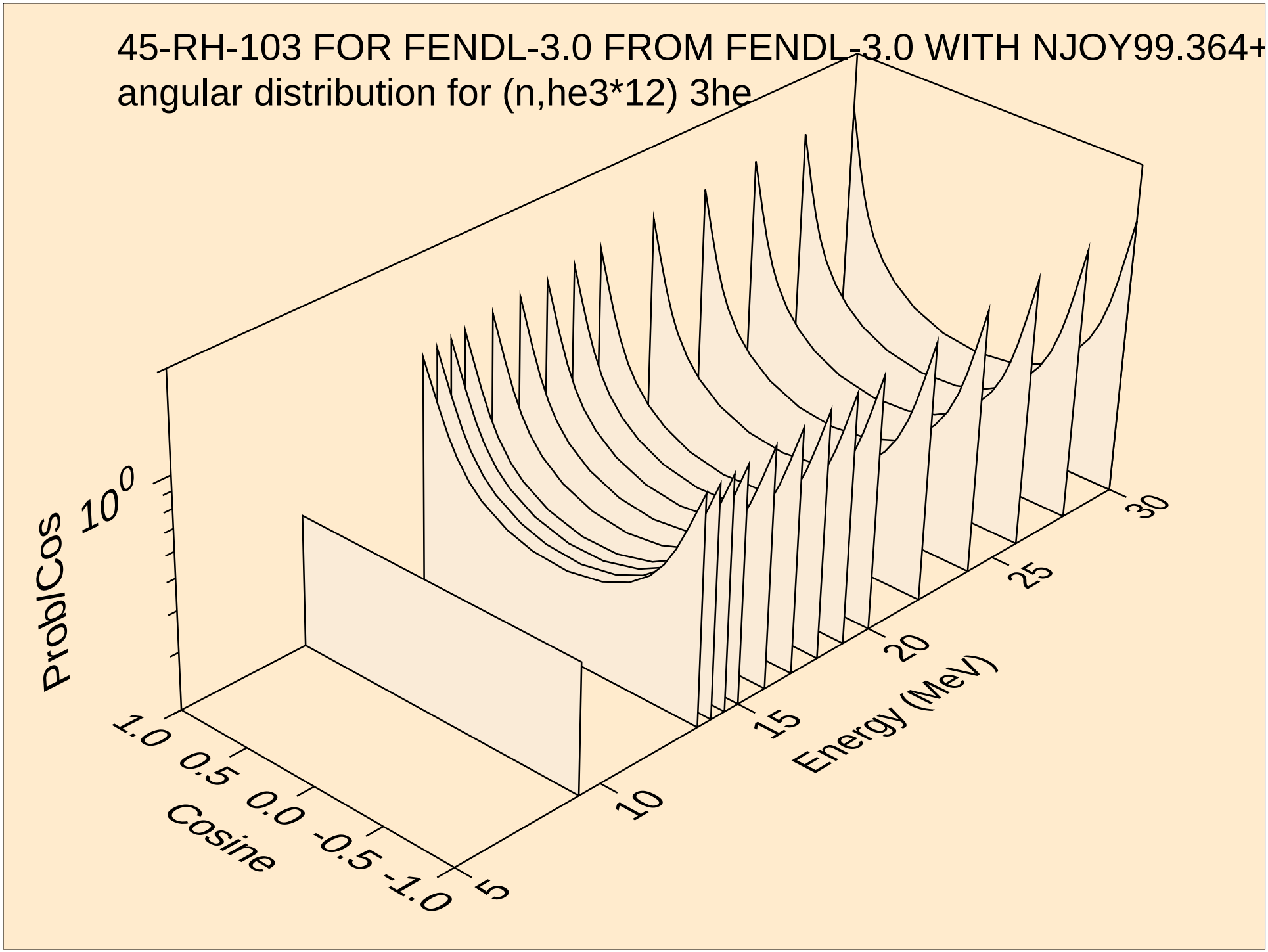

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*7) 3he
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

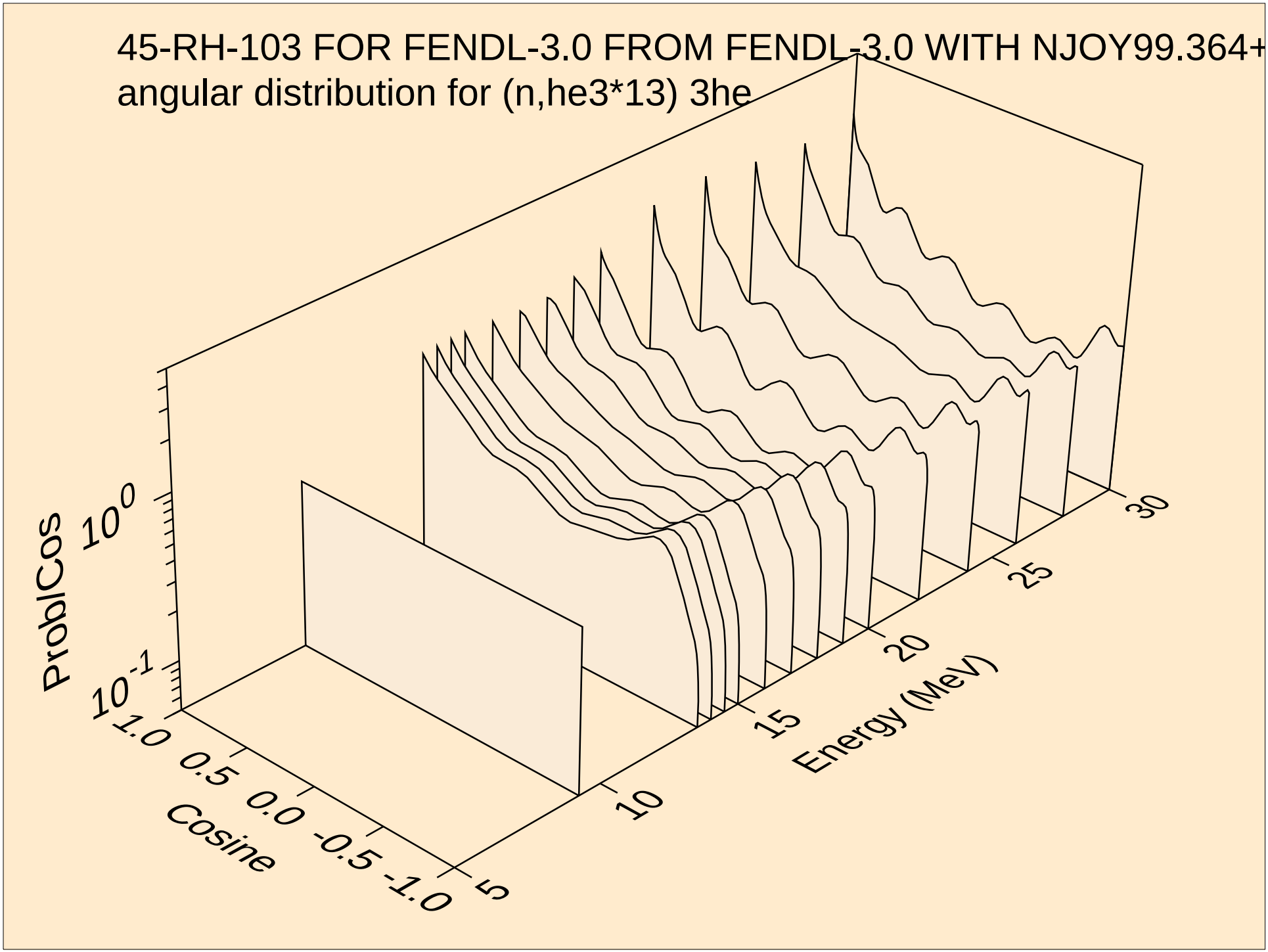

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*8) 3he
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

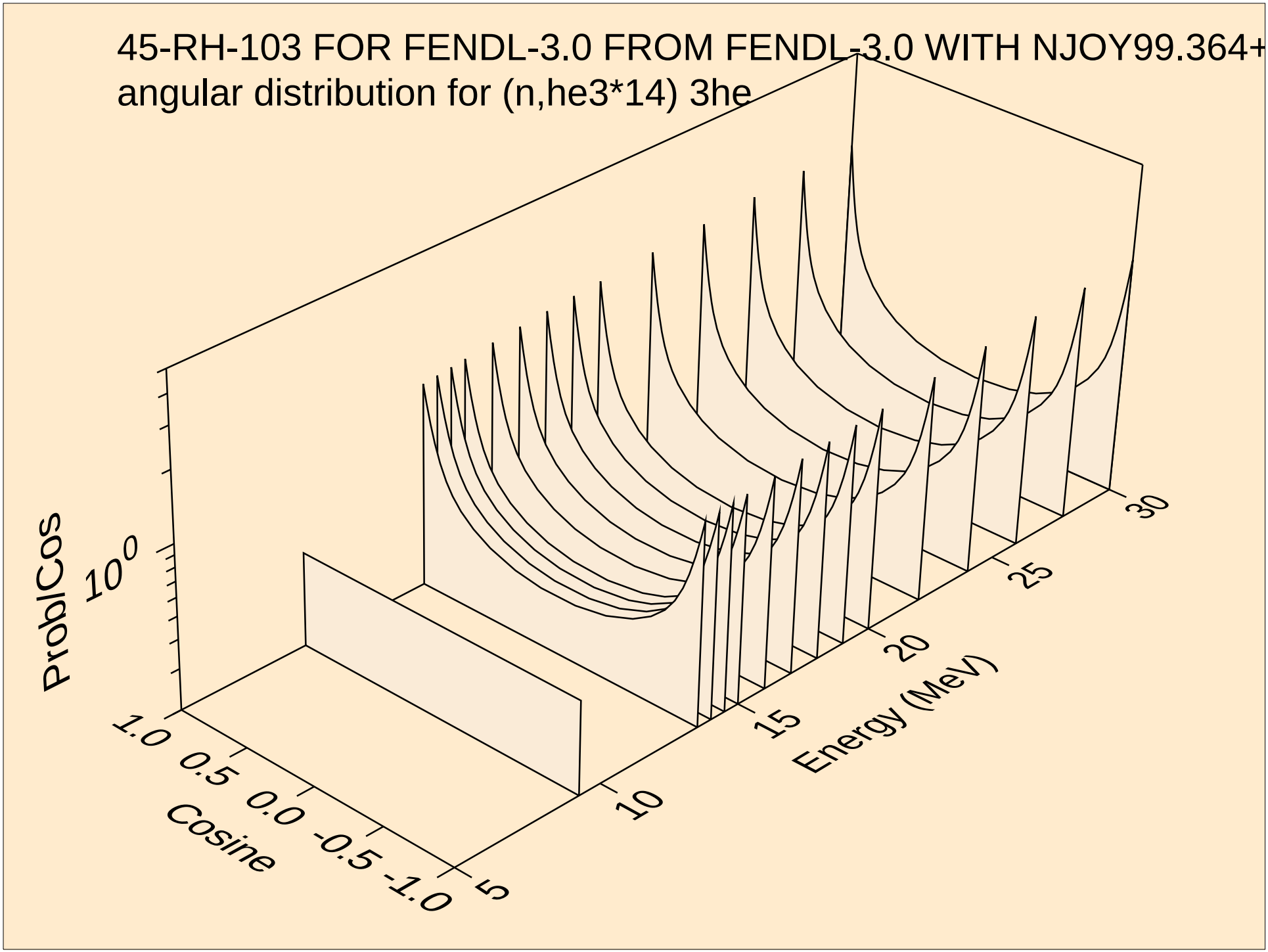

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*9) 3he
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

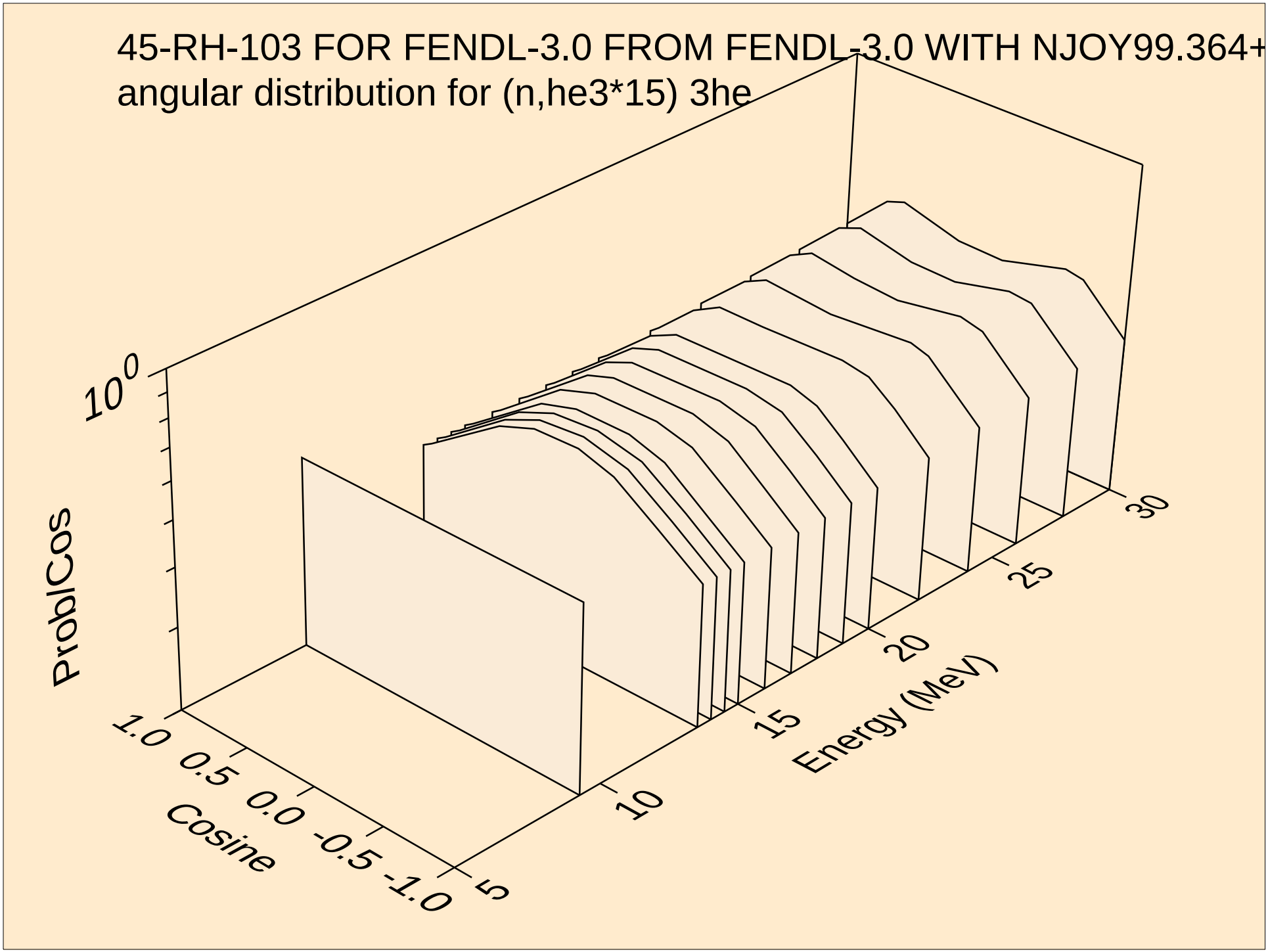

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*10) 3he
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

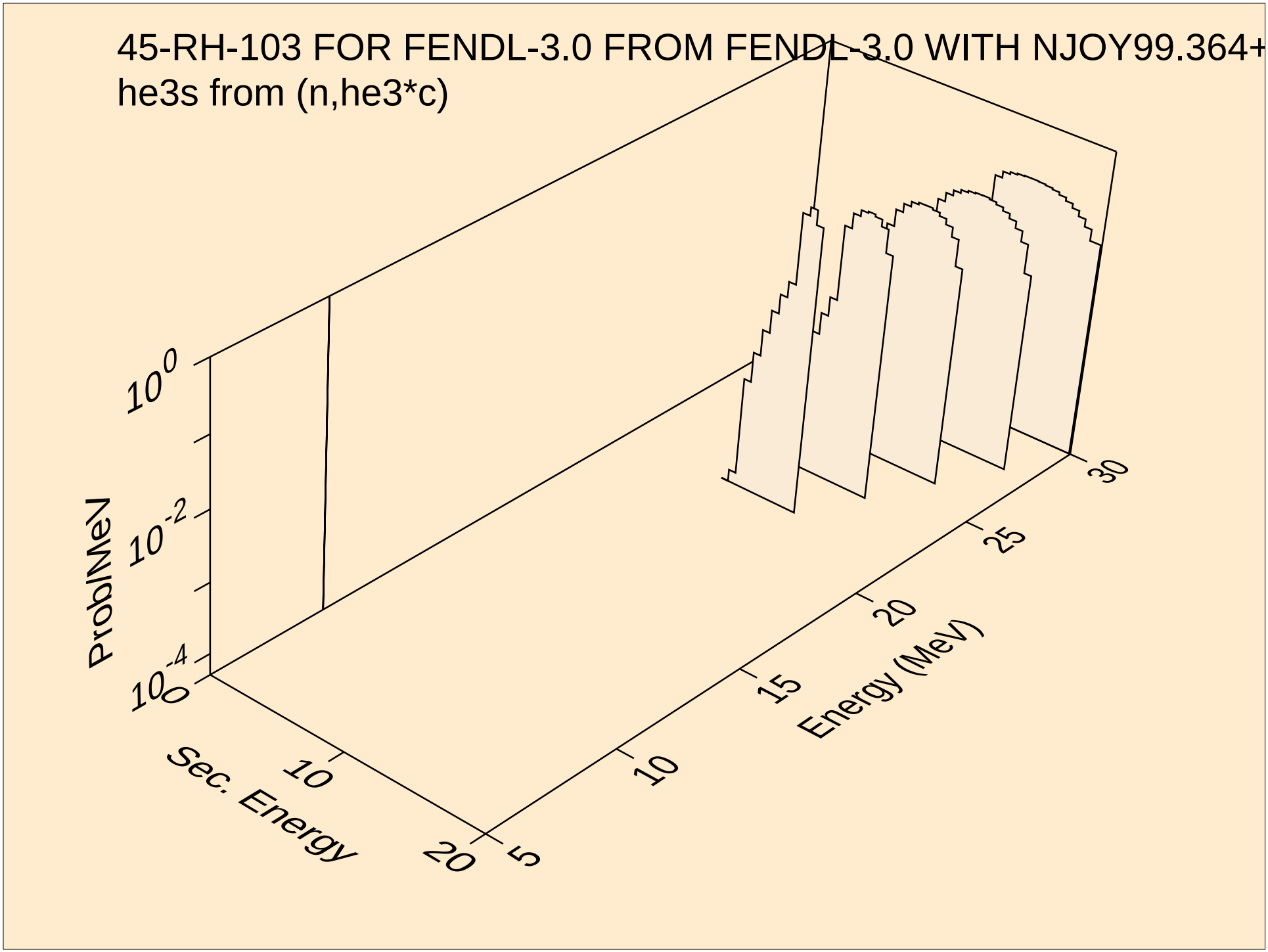

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*11) 3he
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

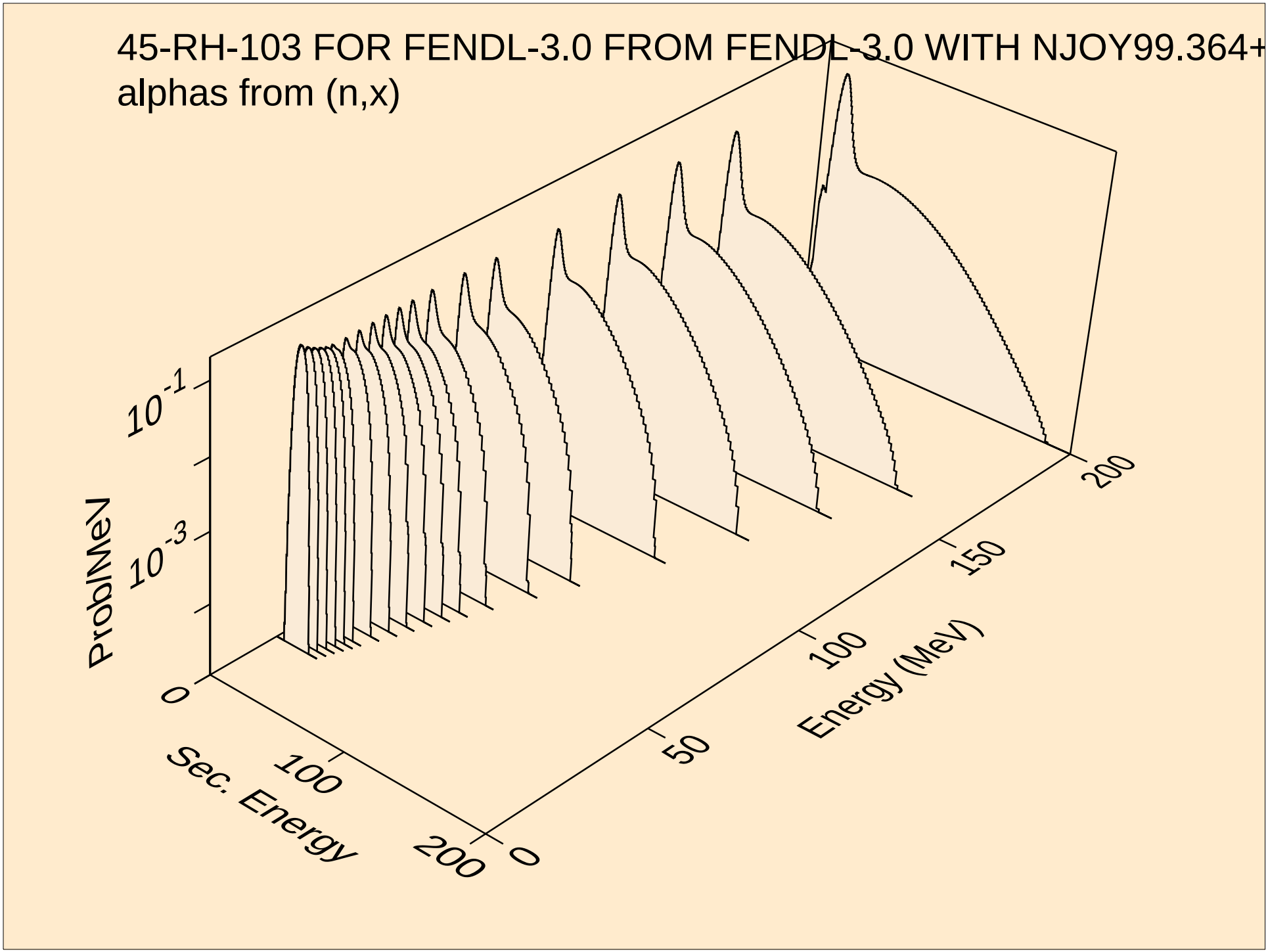

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*12) 3he
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

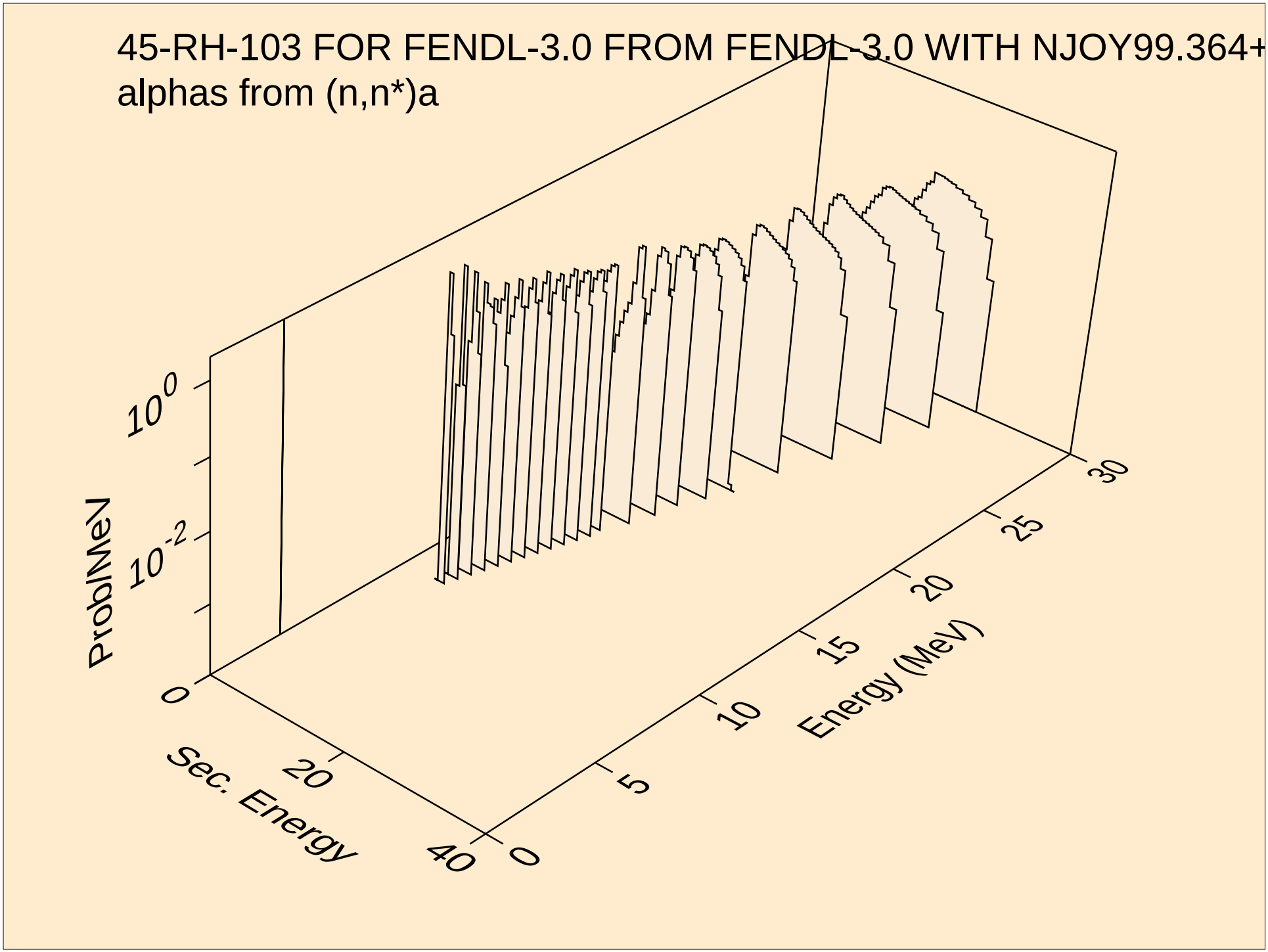

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*13) 3he
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

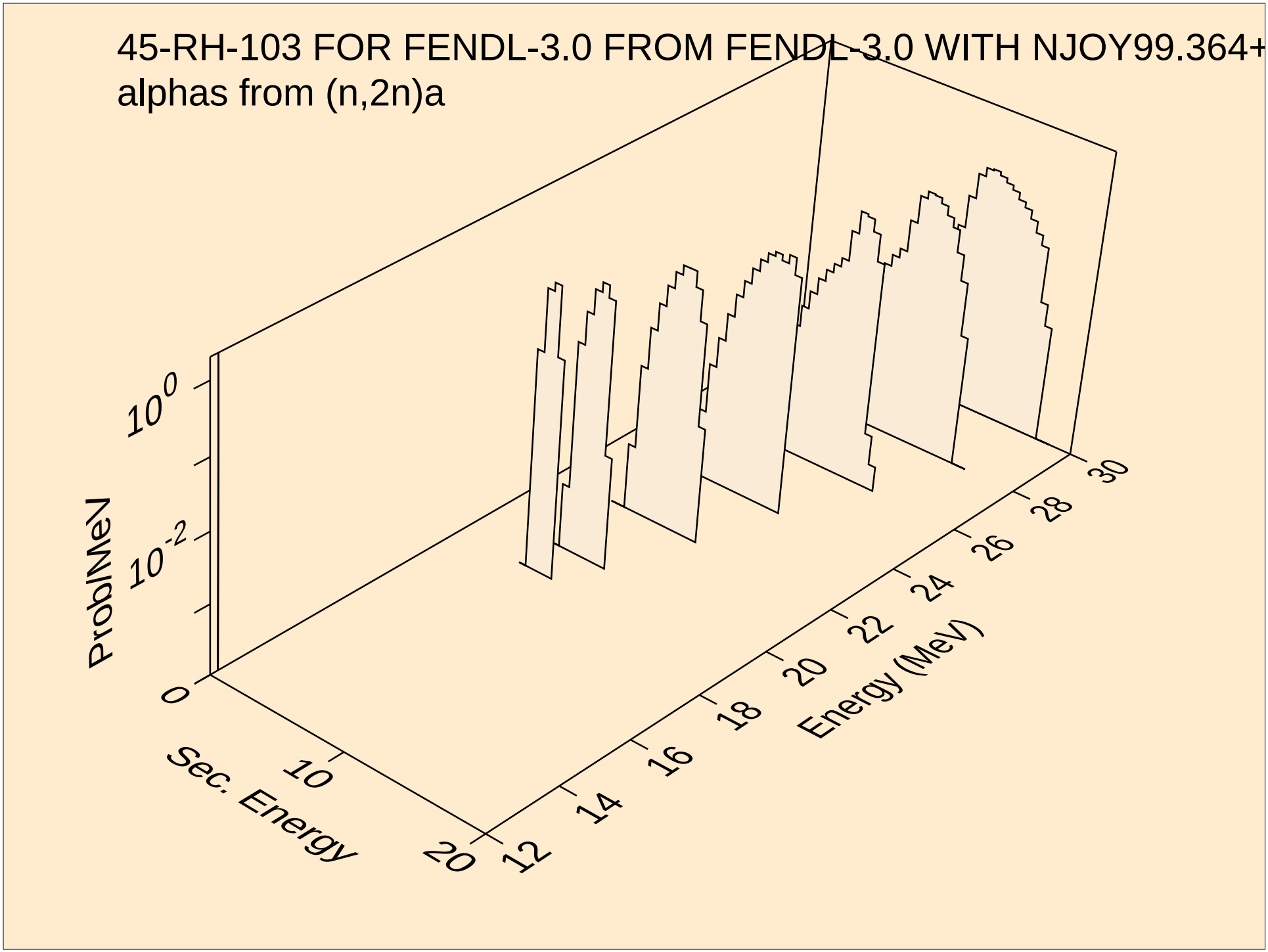

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*14) 3he
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

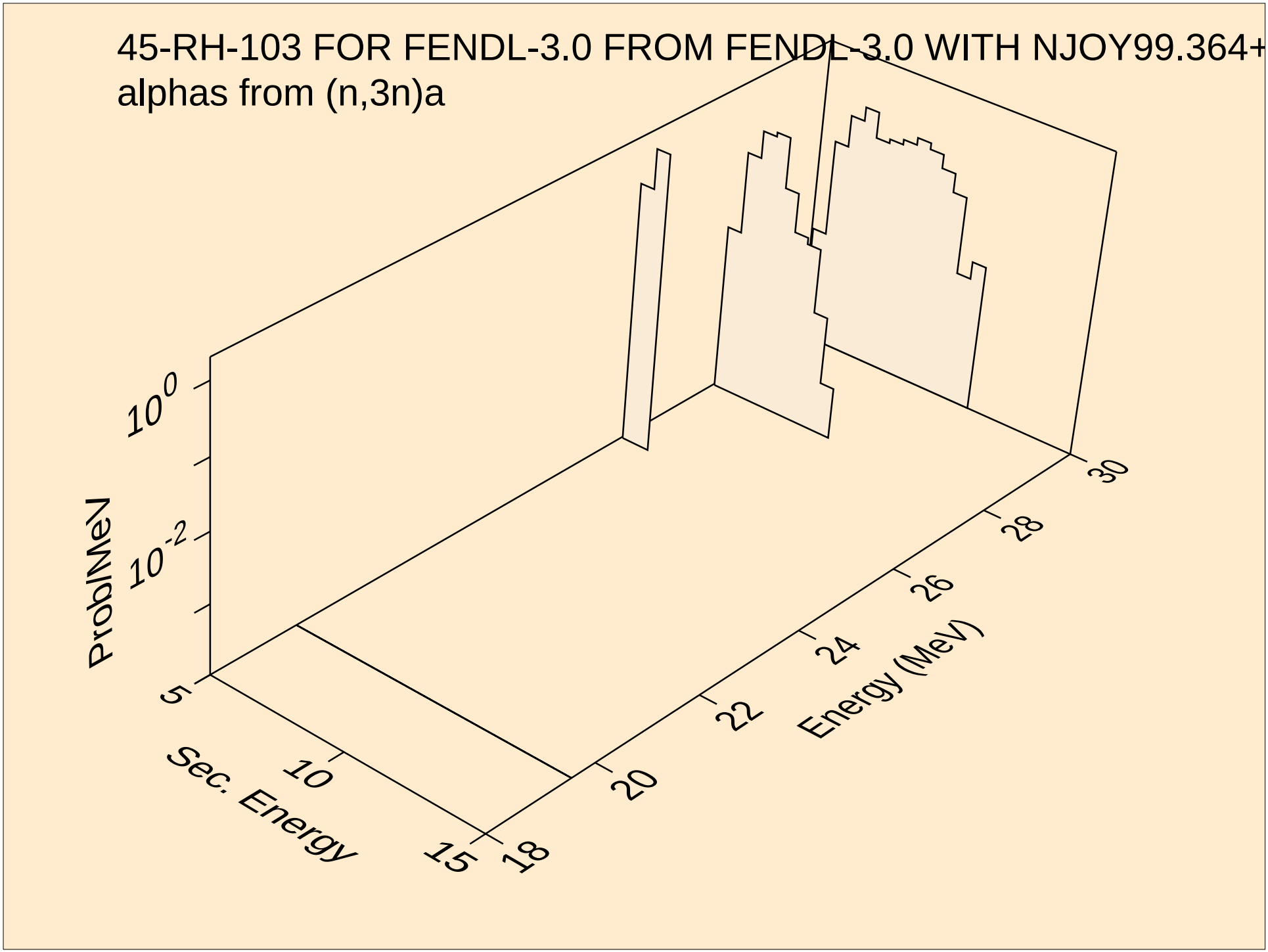

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,he3*15) 3he
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
Energy (MeV)

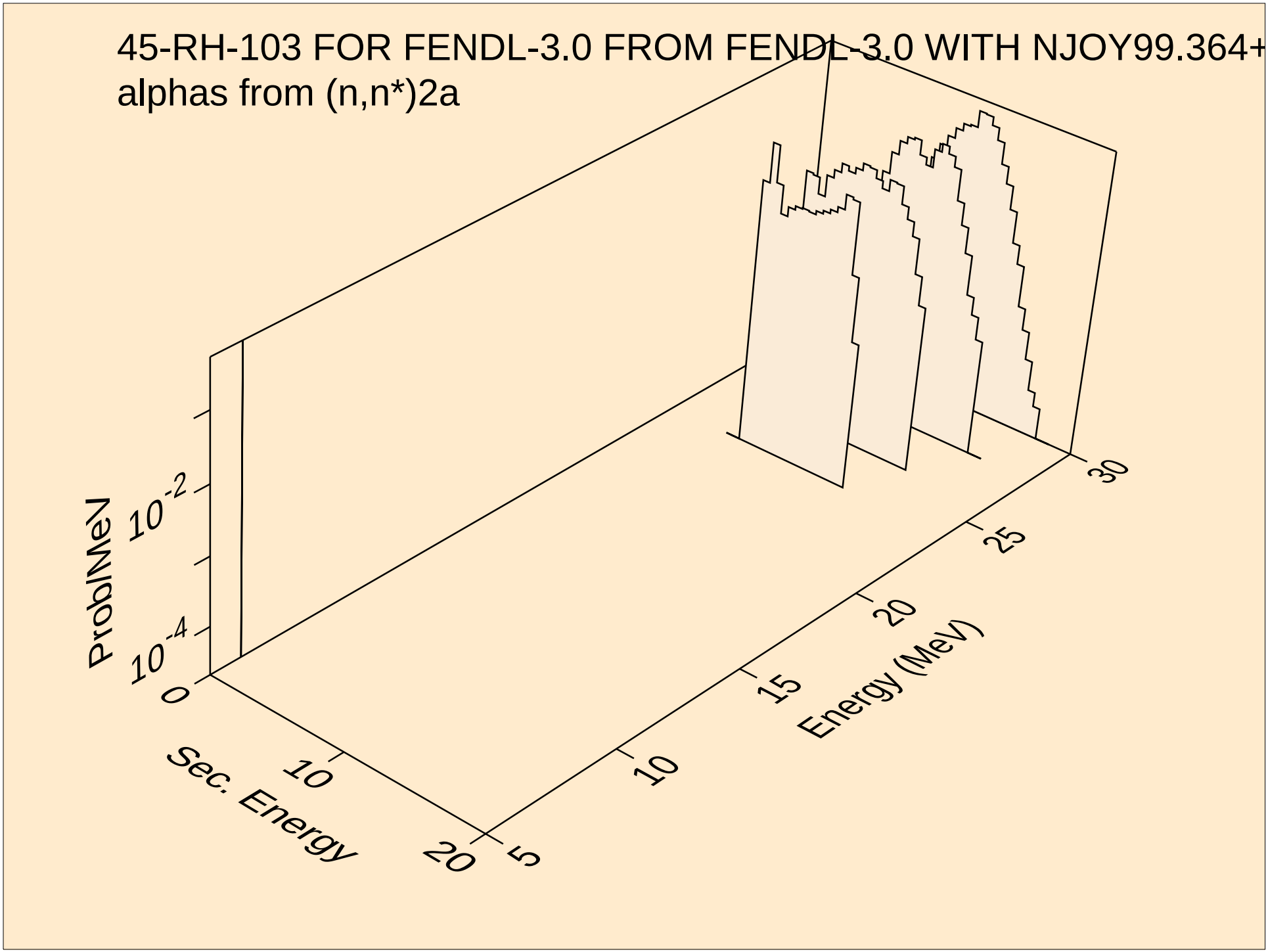

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
he3s from (n,he3*c)
Prob/MeV
10^0
10^-2
10^-4
0
10
20
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

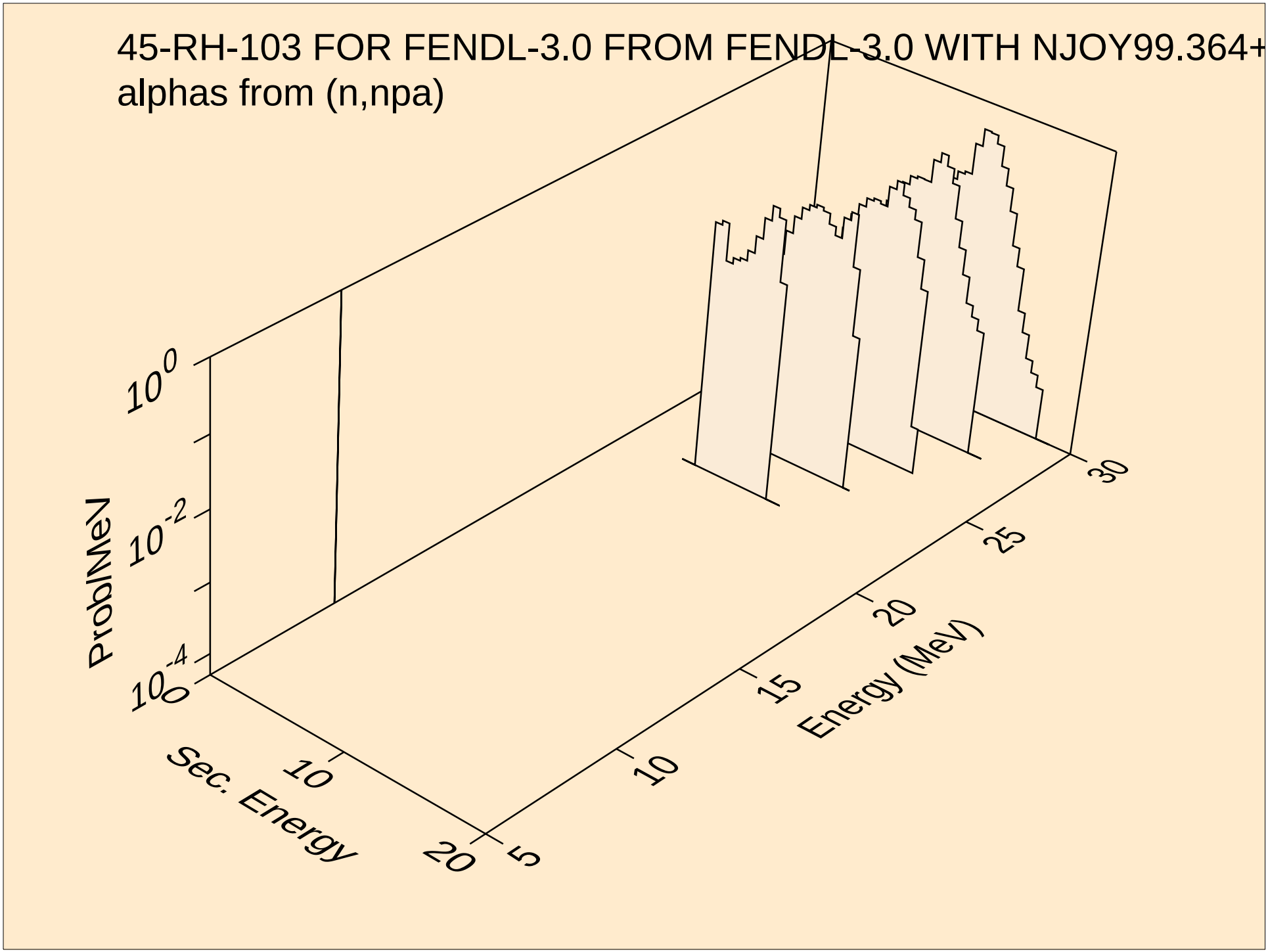

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
alphas from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

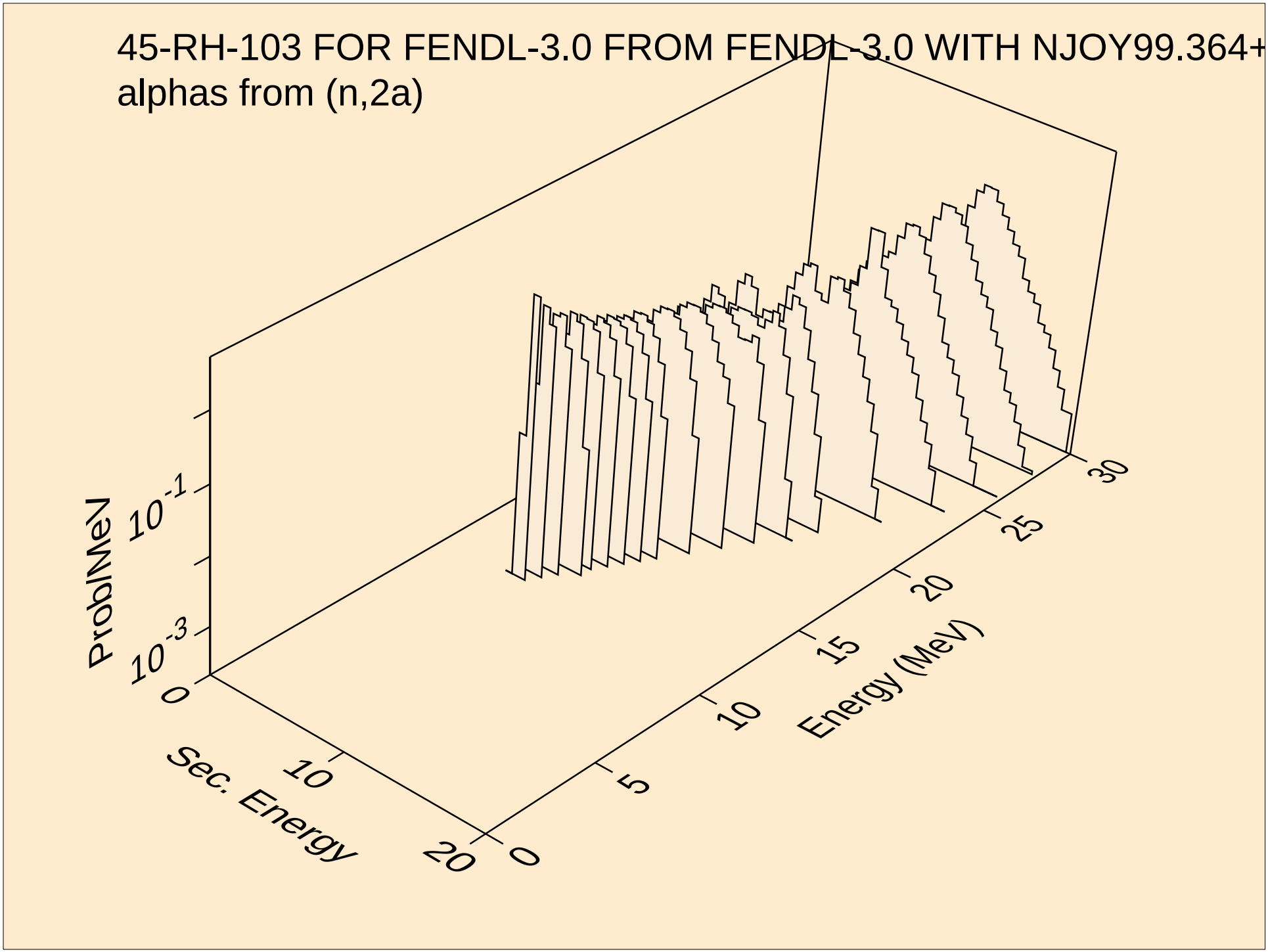

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
alphas from (n,n*)a
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

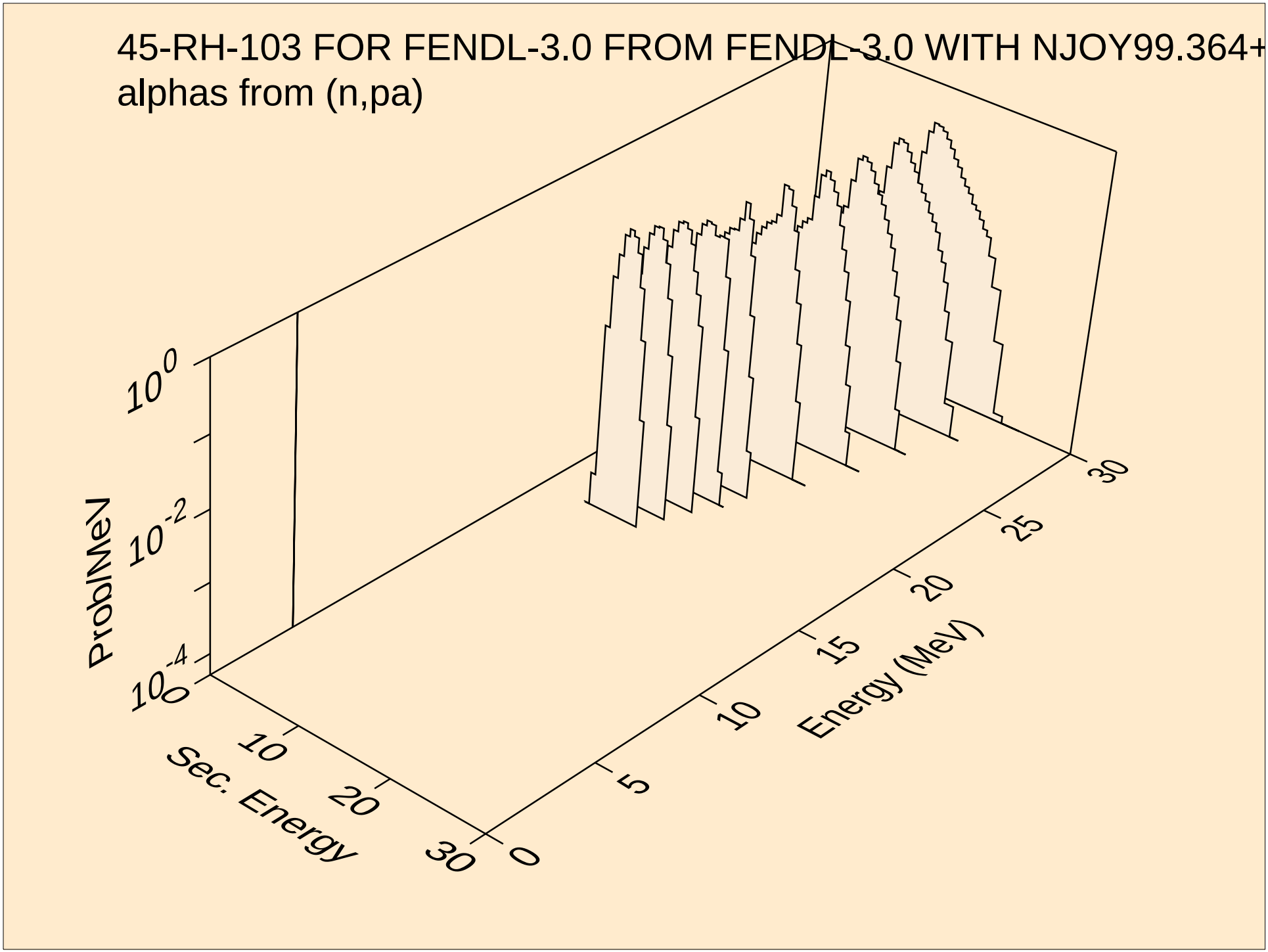

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
alphas from (n,2n)a
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
Energy (MeV)
12
14
16
18
20
22
24
26
28
30

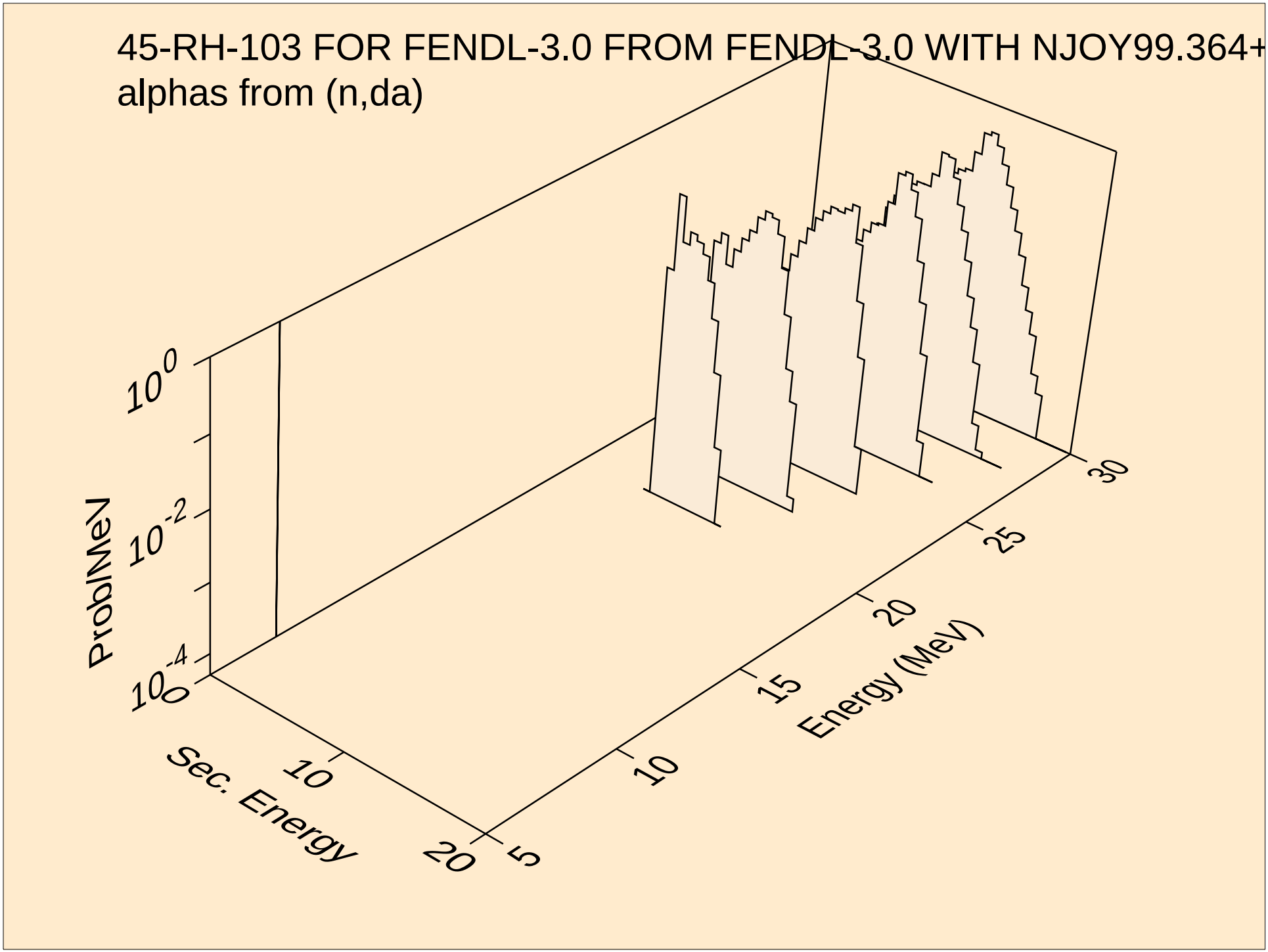

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
alphas from (n,3n)a
Prob/MeV
10^{0}
10^{-2}
5
10
15
18
Sec. Energy
20
22
24
26
28
30
Energy (MeV)

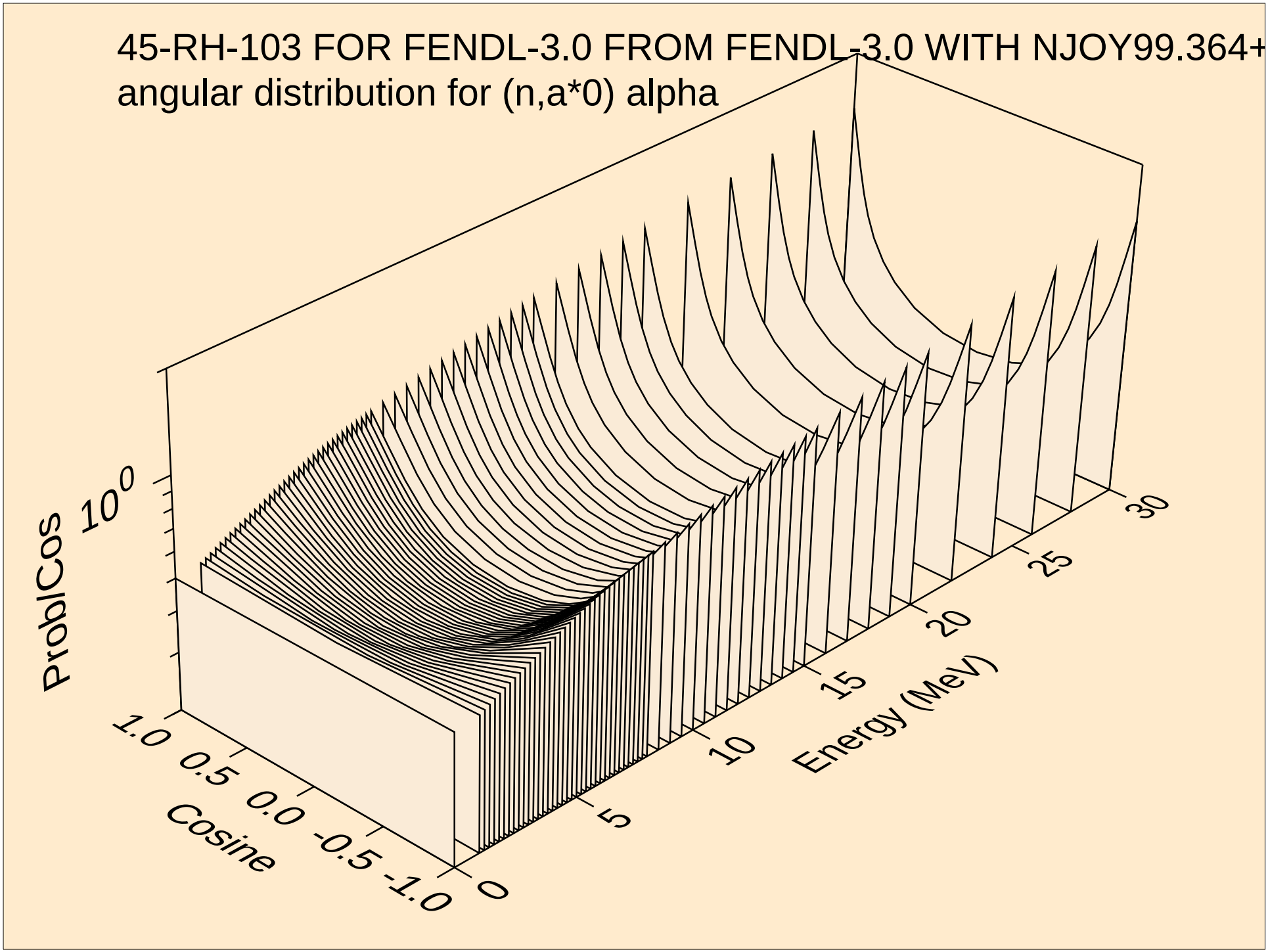

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
alphas from (n,n*)2a
Prob/MeV
10-2
10-4
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

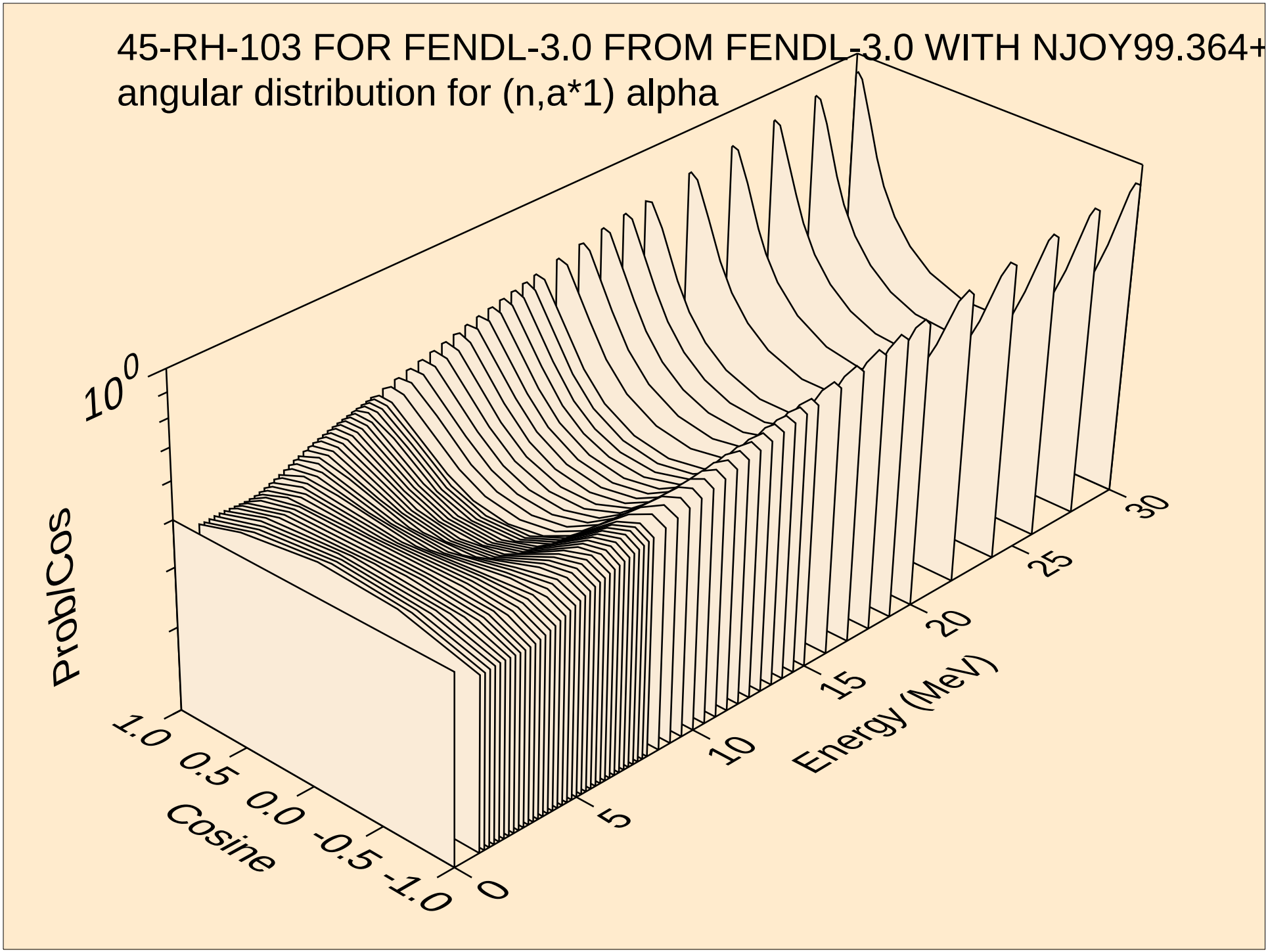

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
alphas from (n,npa)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

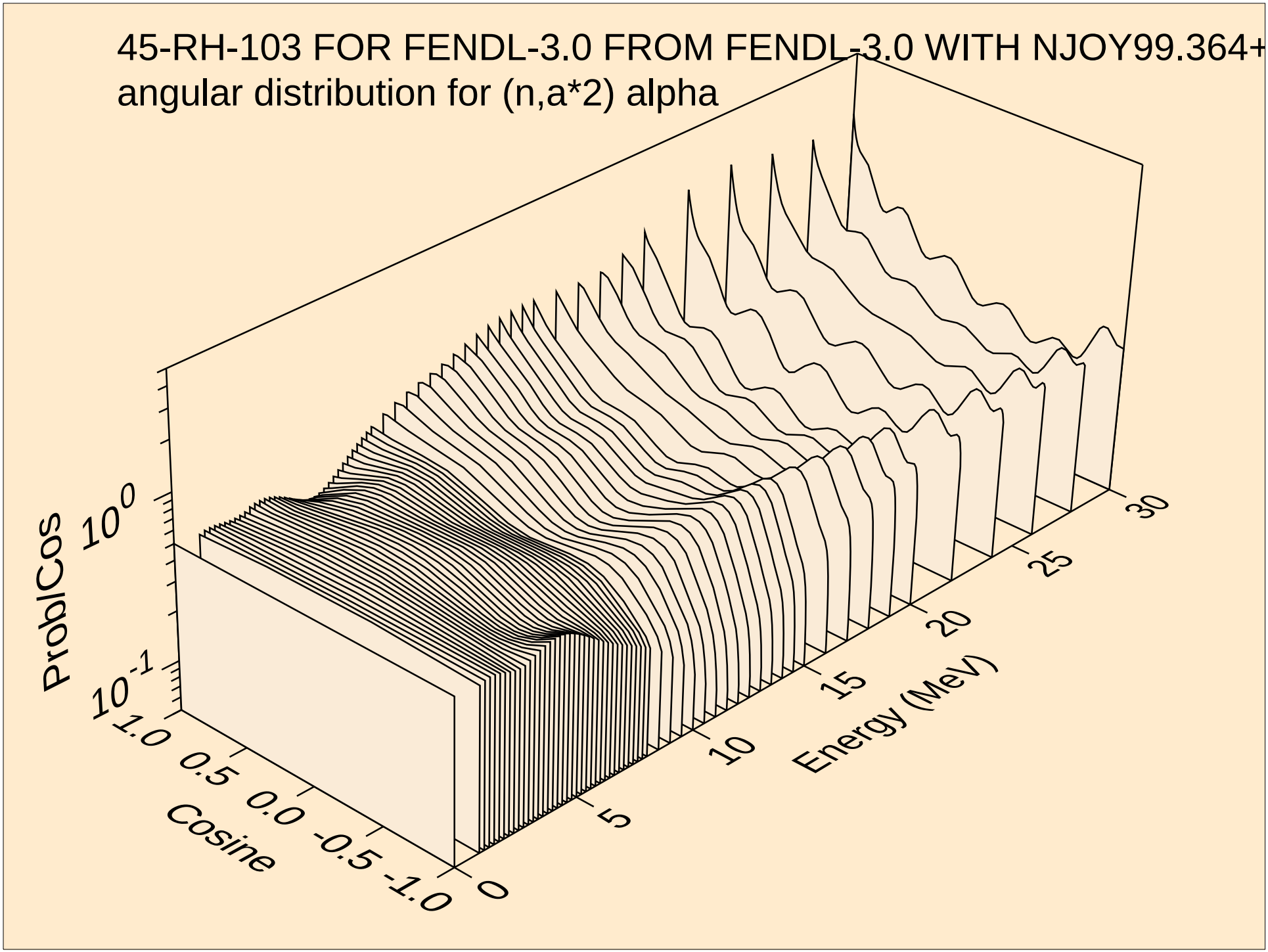

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
alphas from (n,2a)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
0
5
10
15
20
25
30
Energy (MeV)

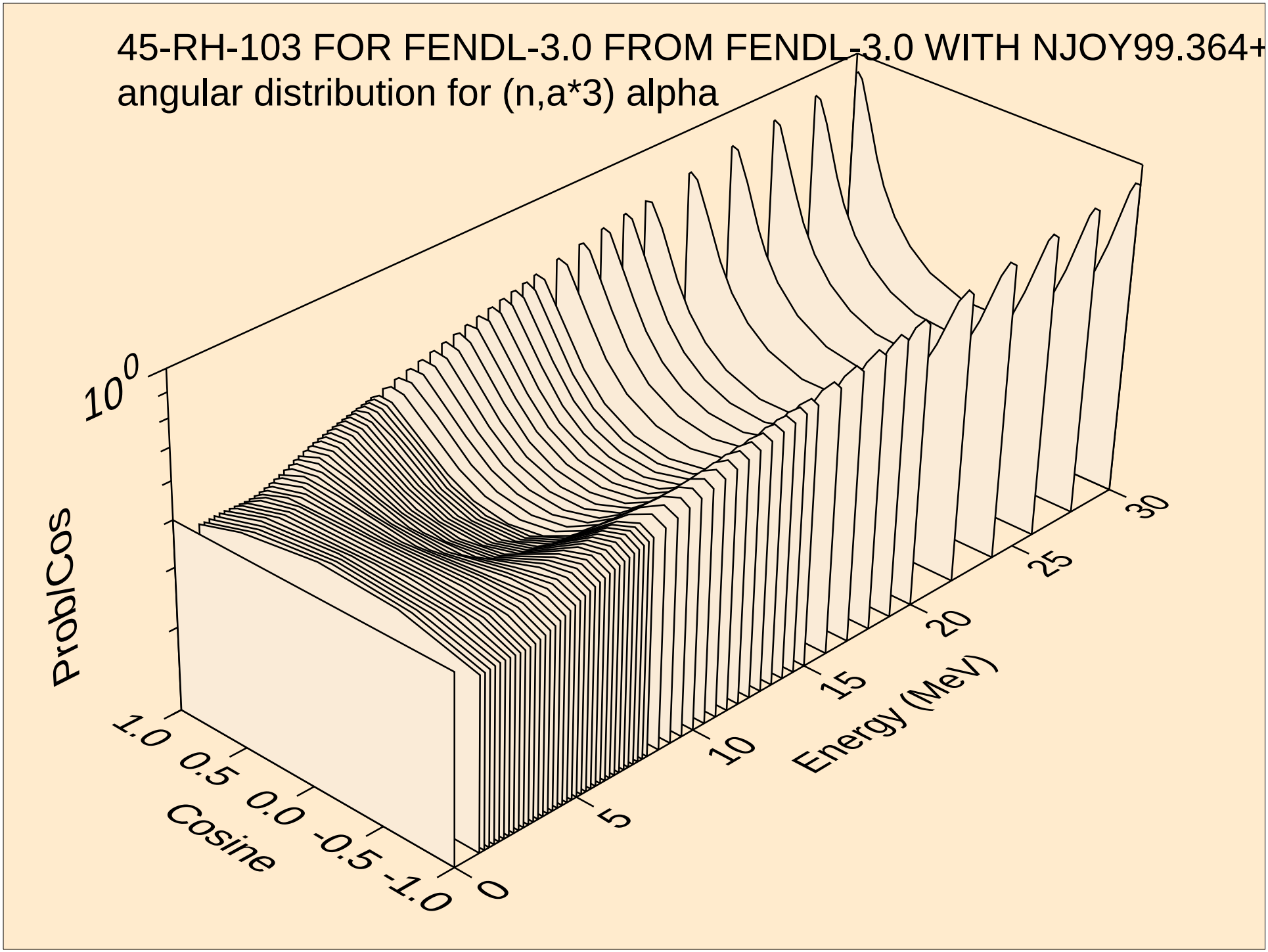

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
alphas from (n,pa)
Prob/MeV
10^0
10^-2
10^-4
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

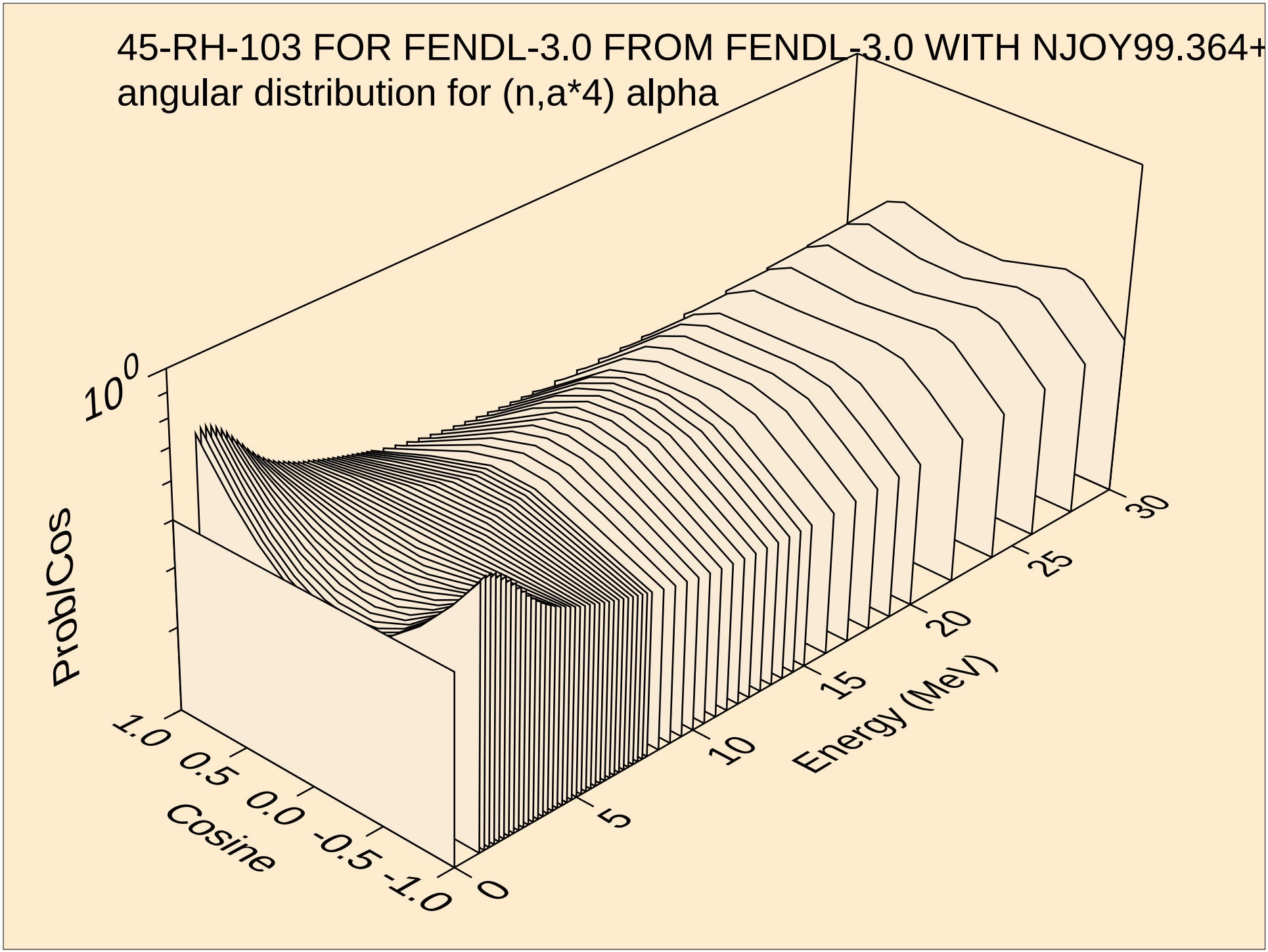

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
alphas from (n,da)
Prob/MeV
10^0
10^-2
10^-4
0
10
Sec. Energy
20
5
10
15
20
25
30
Energy (MeV)

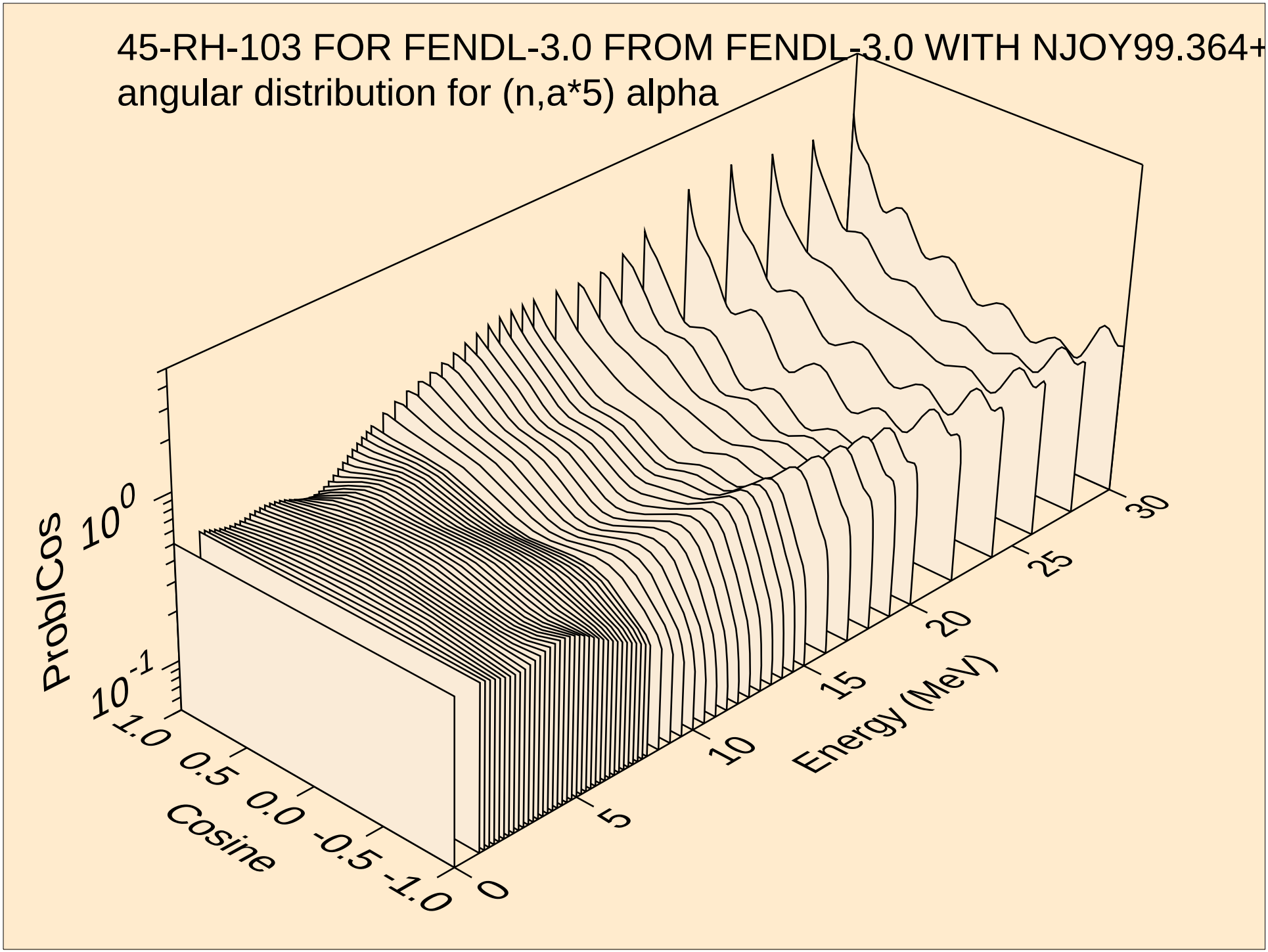

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*0) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

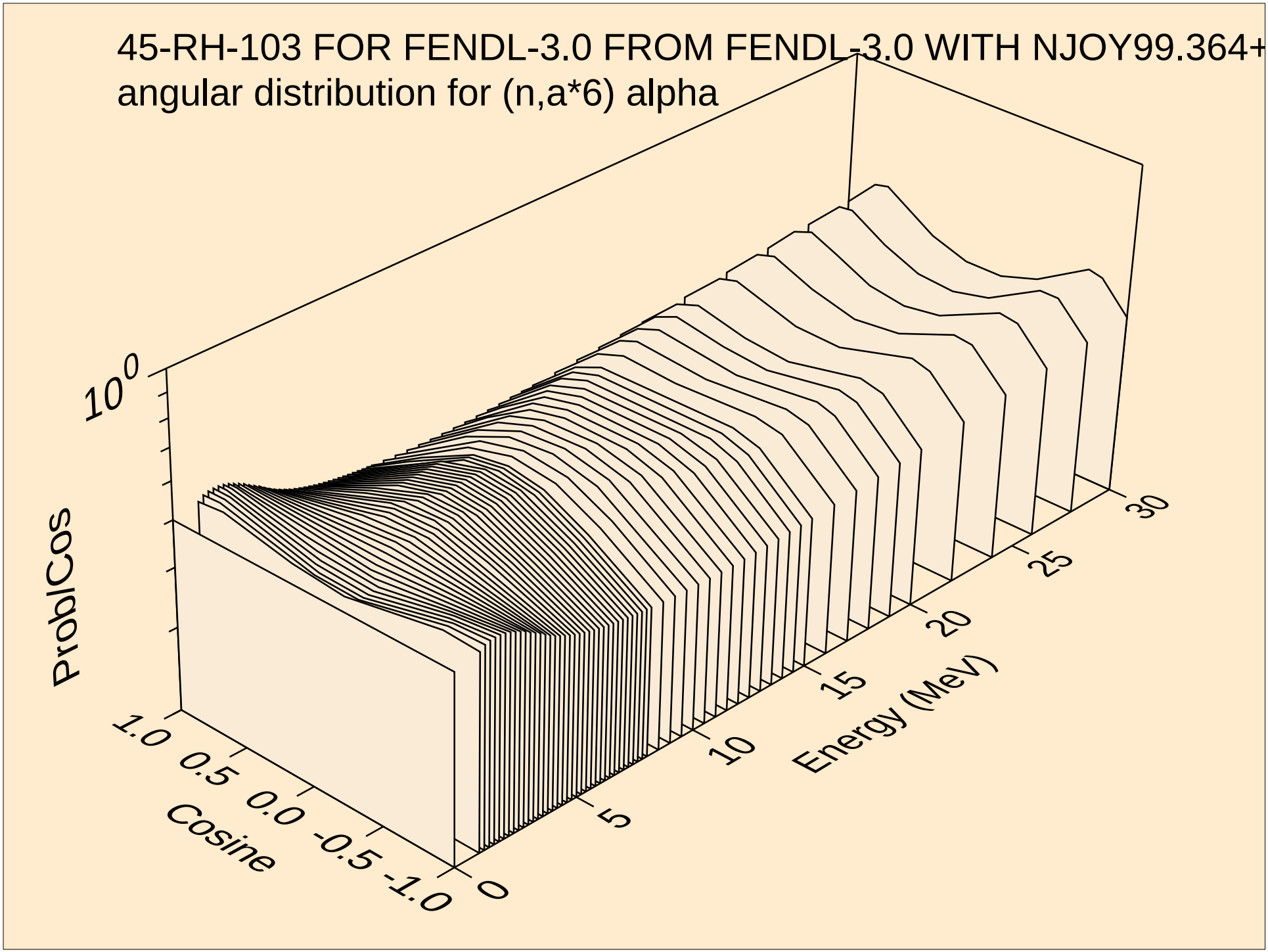

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*1) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

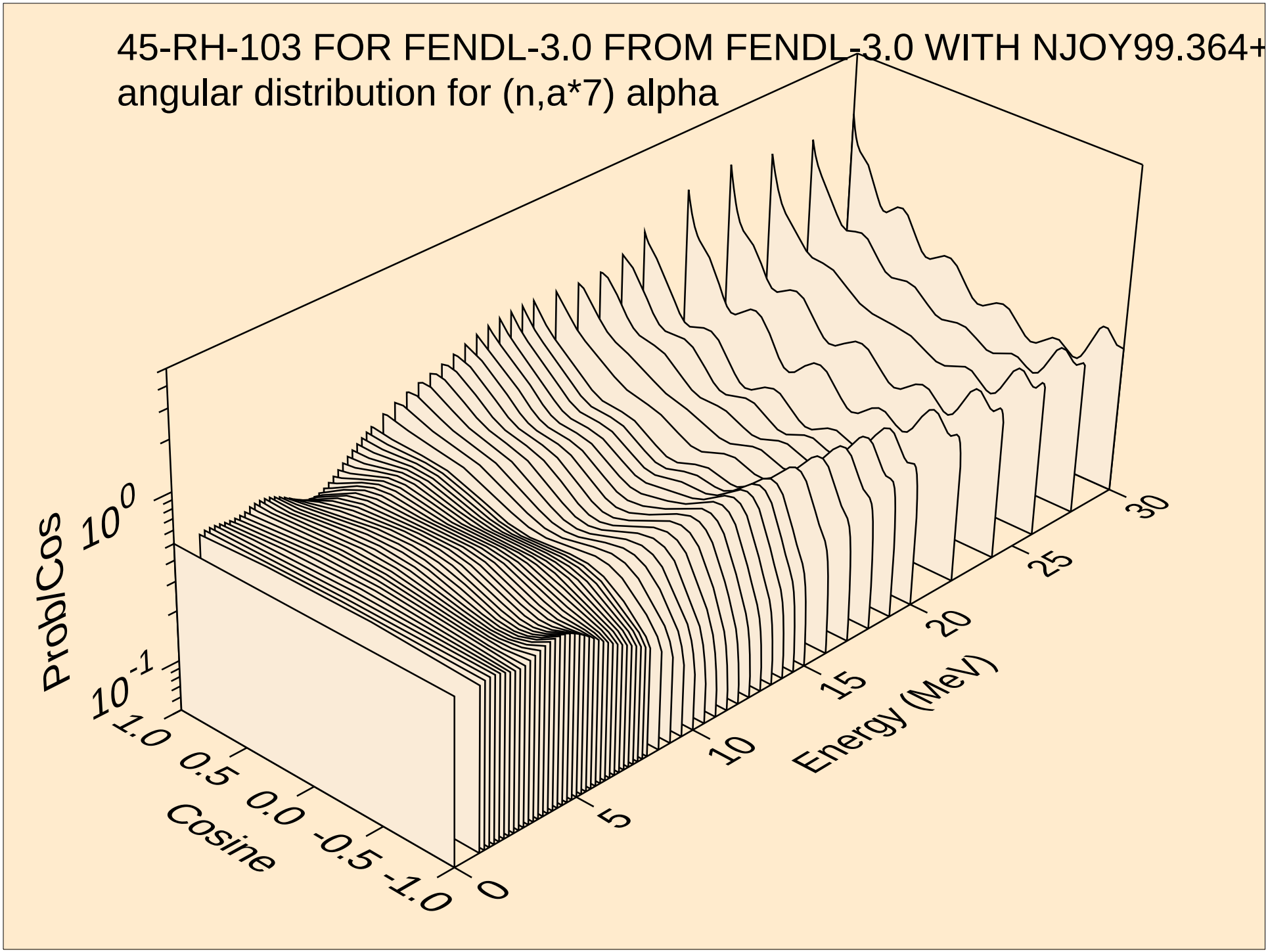

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*2) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

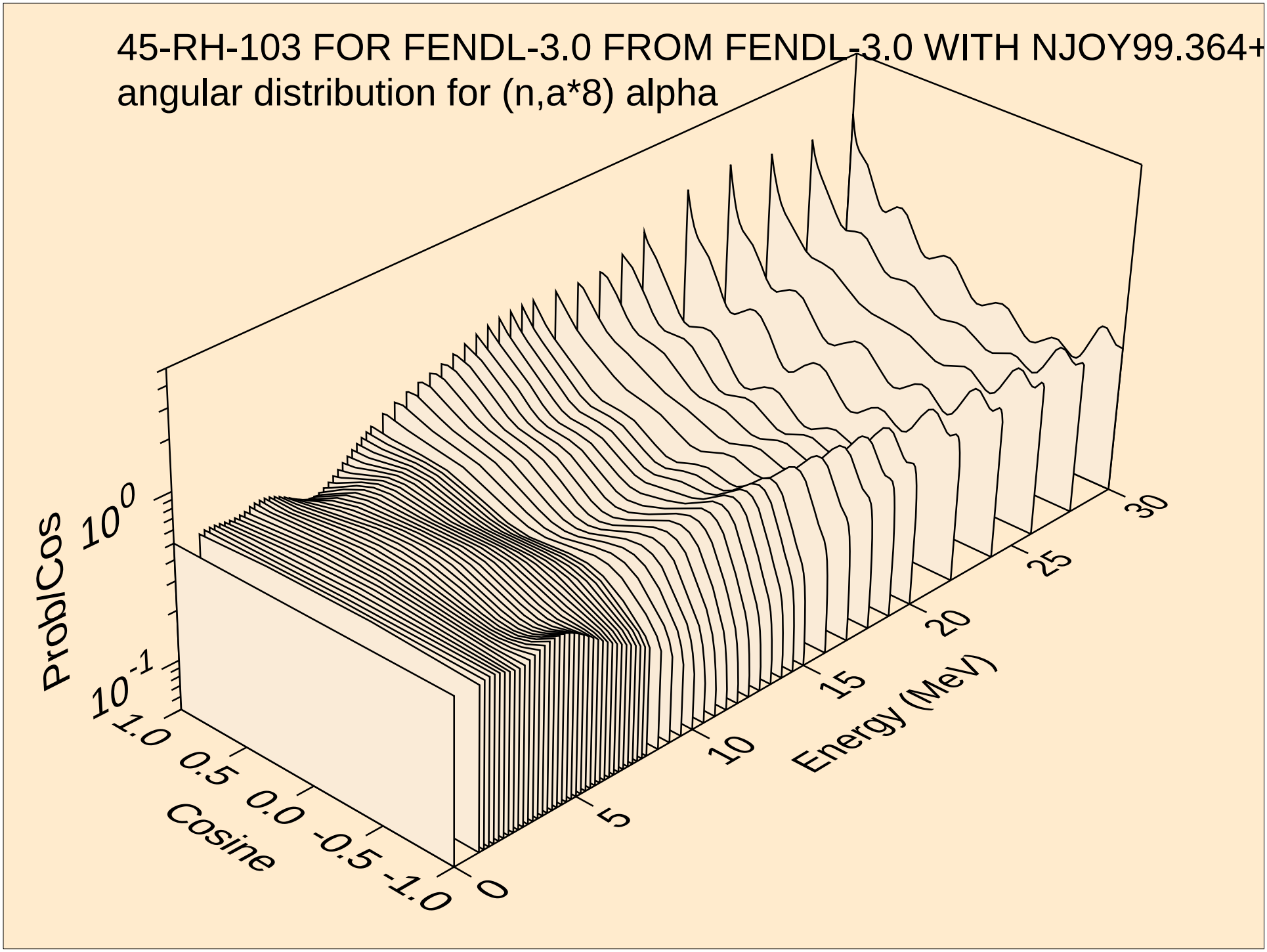

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*3) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

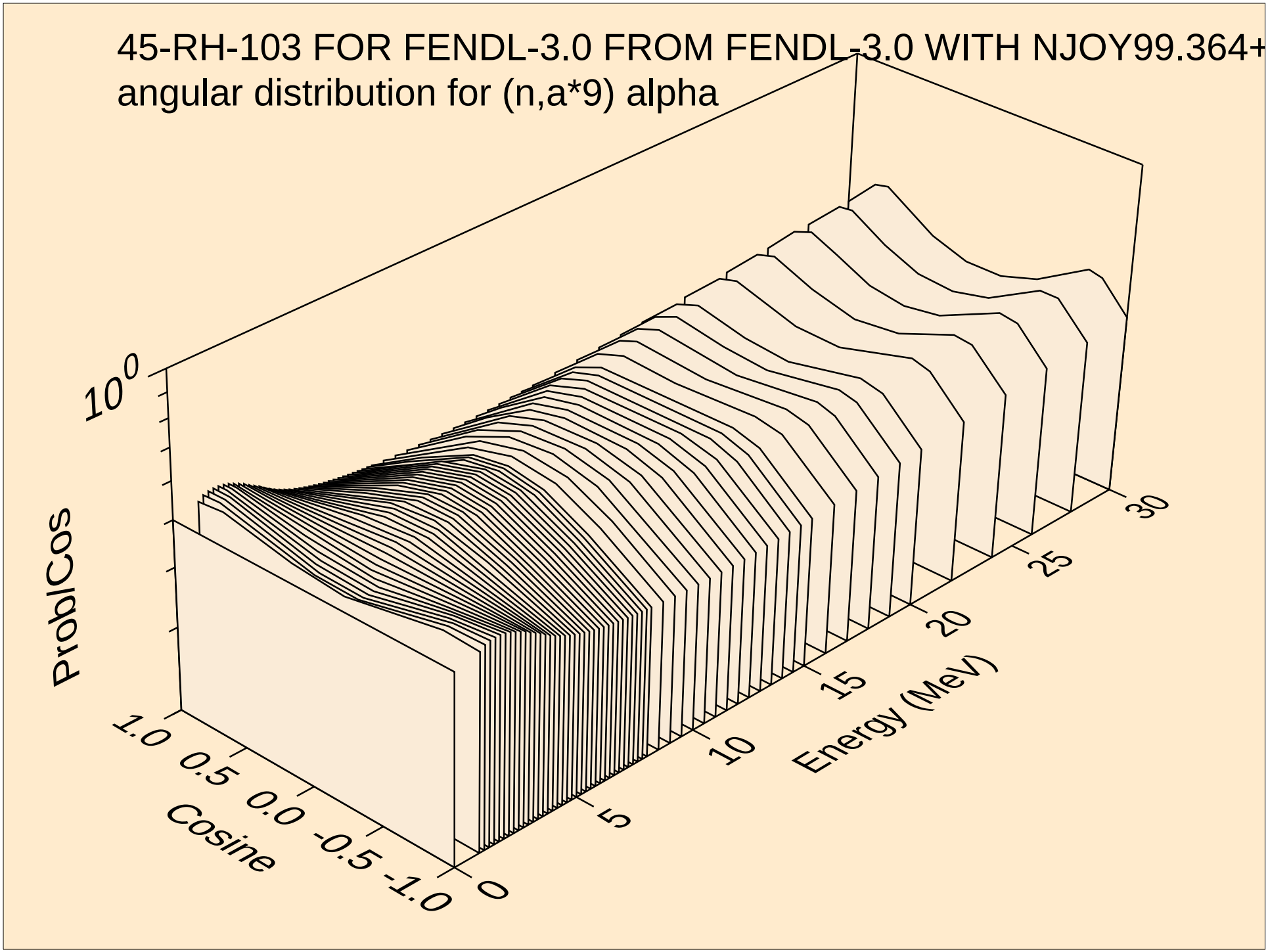

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*4) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

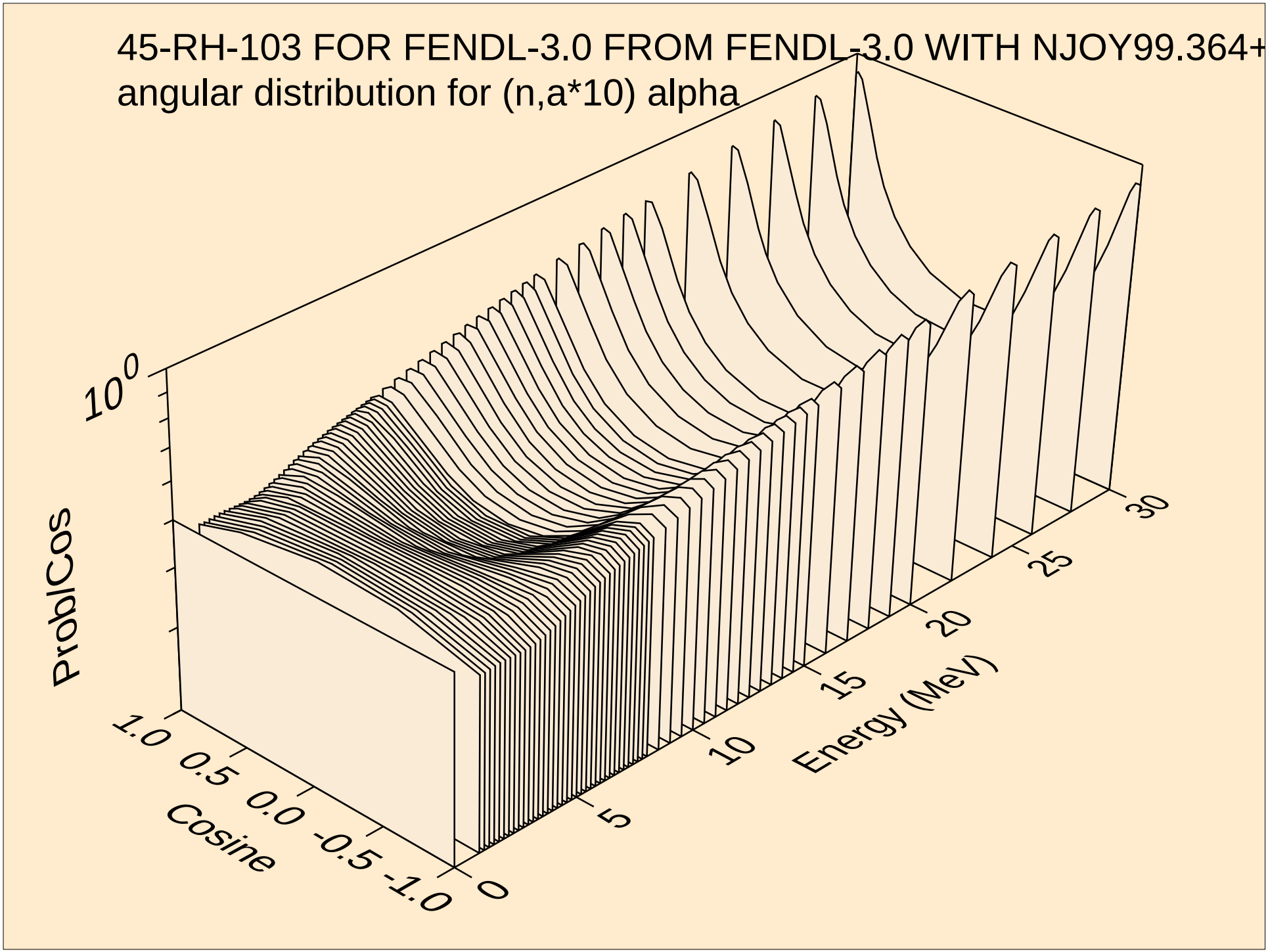

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*5) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

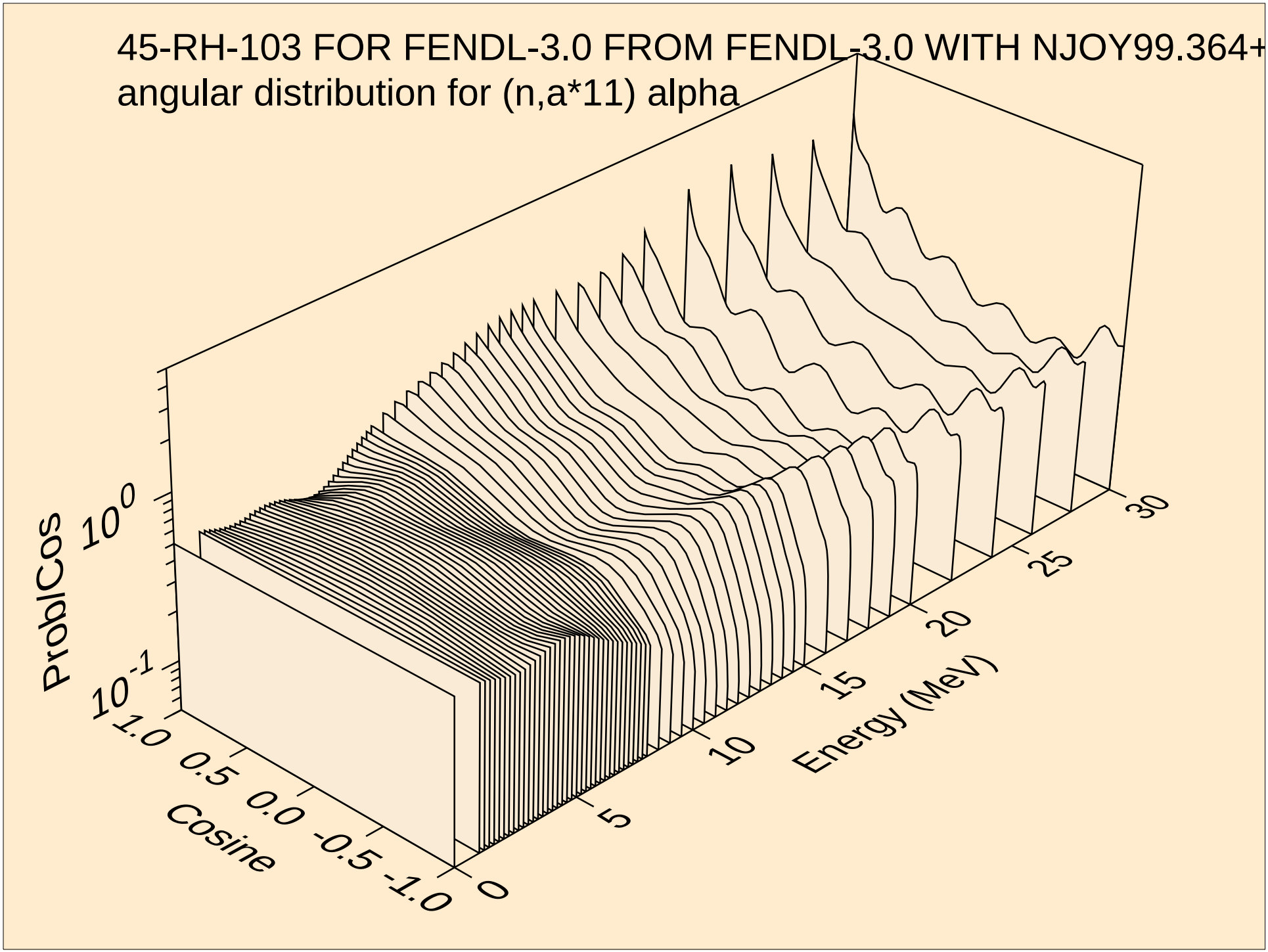

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*6) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

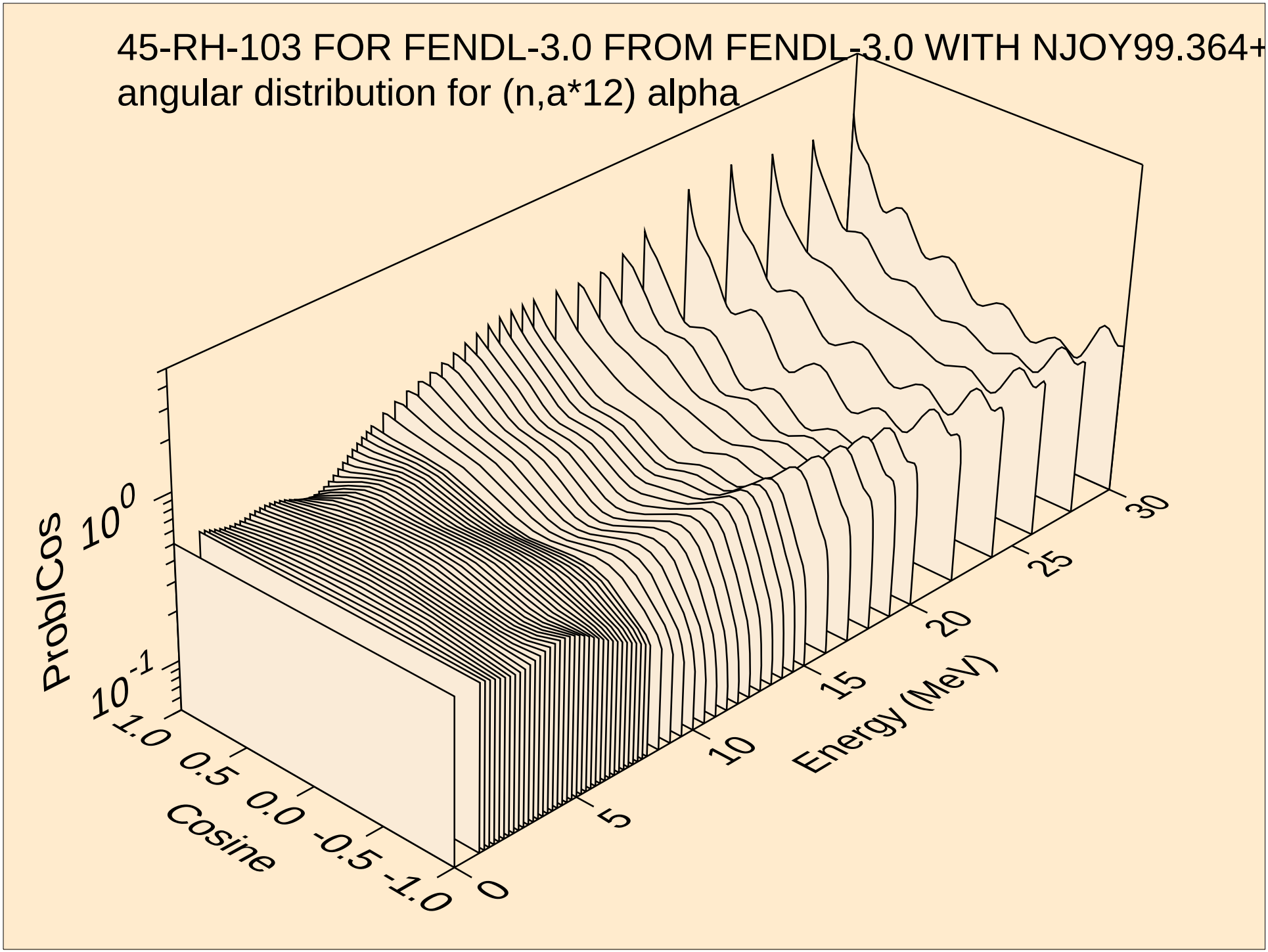

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*7) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

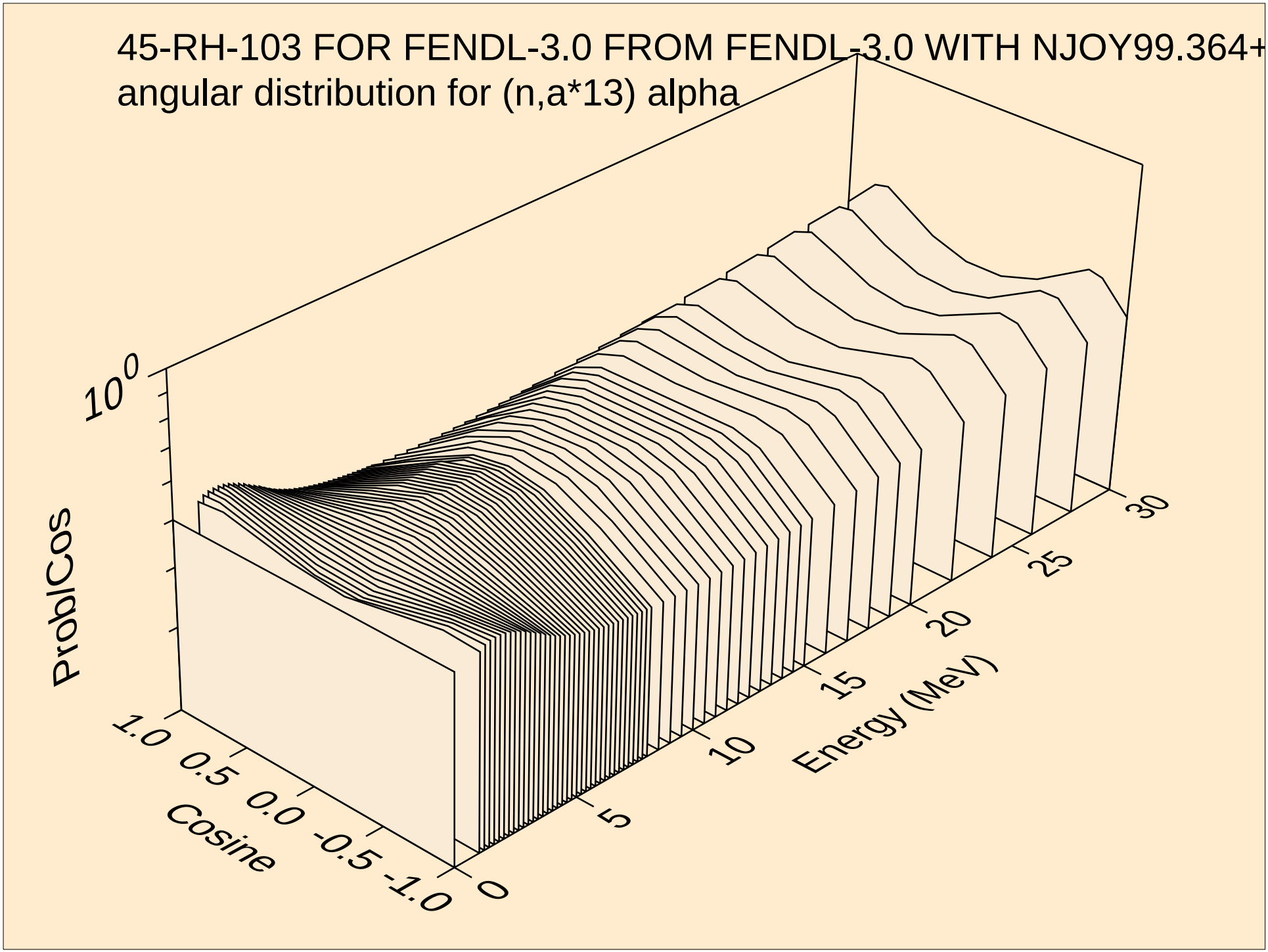

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*8) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

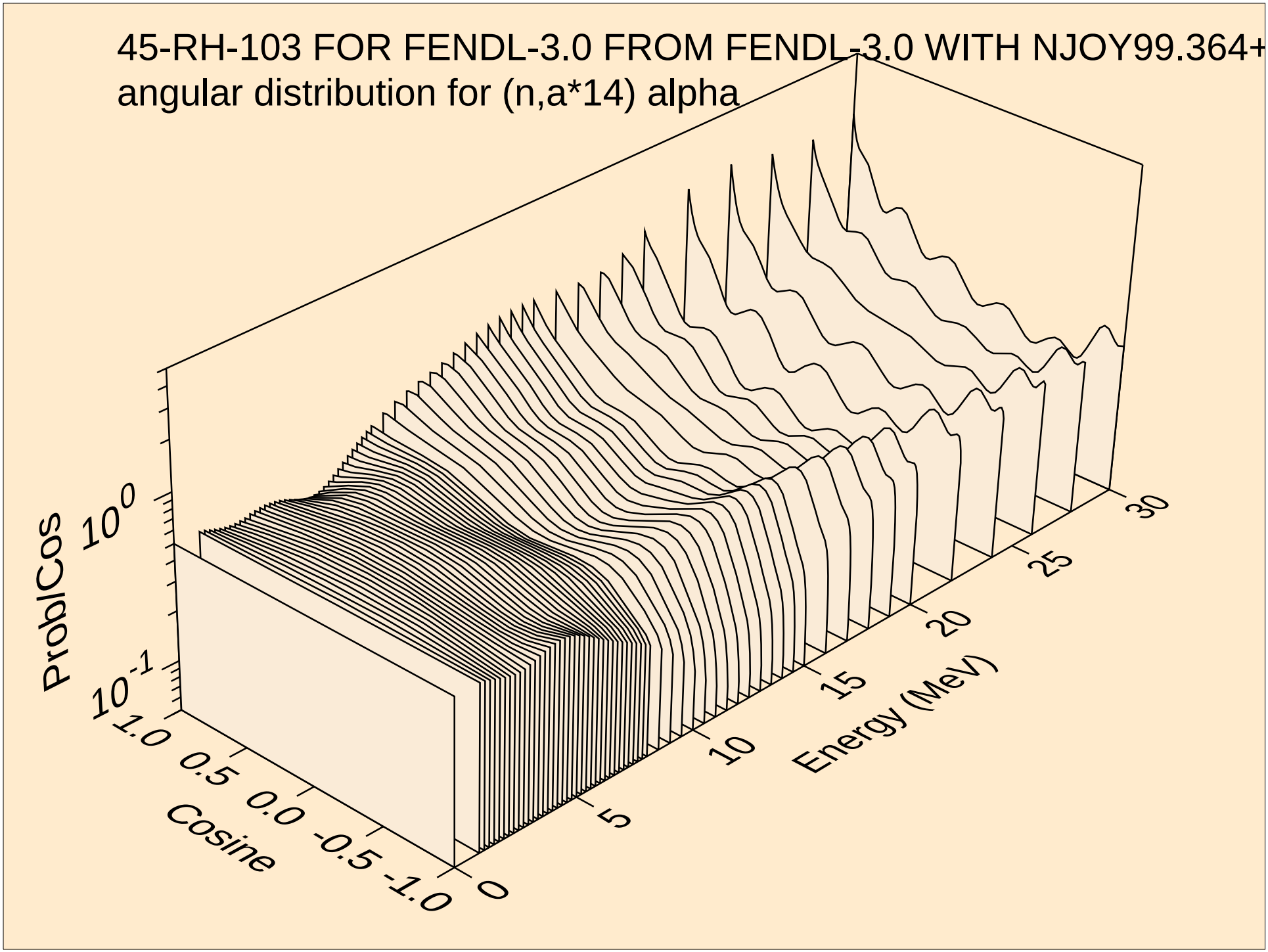

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*9) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

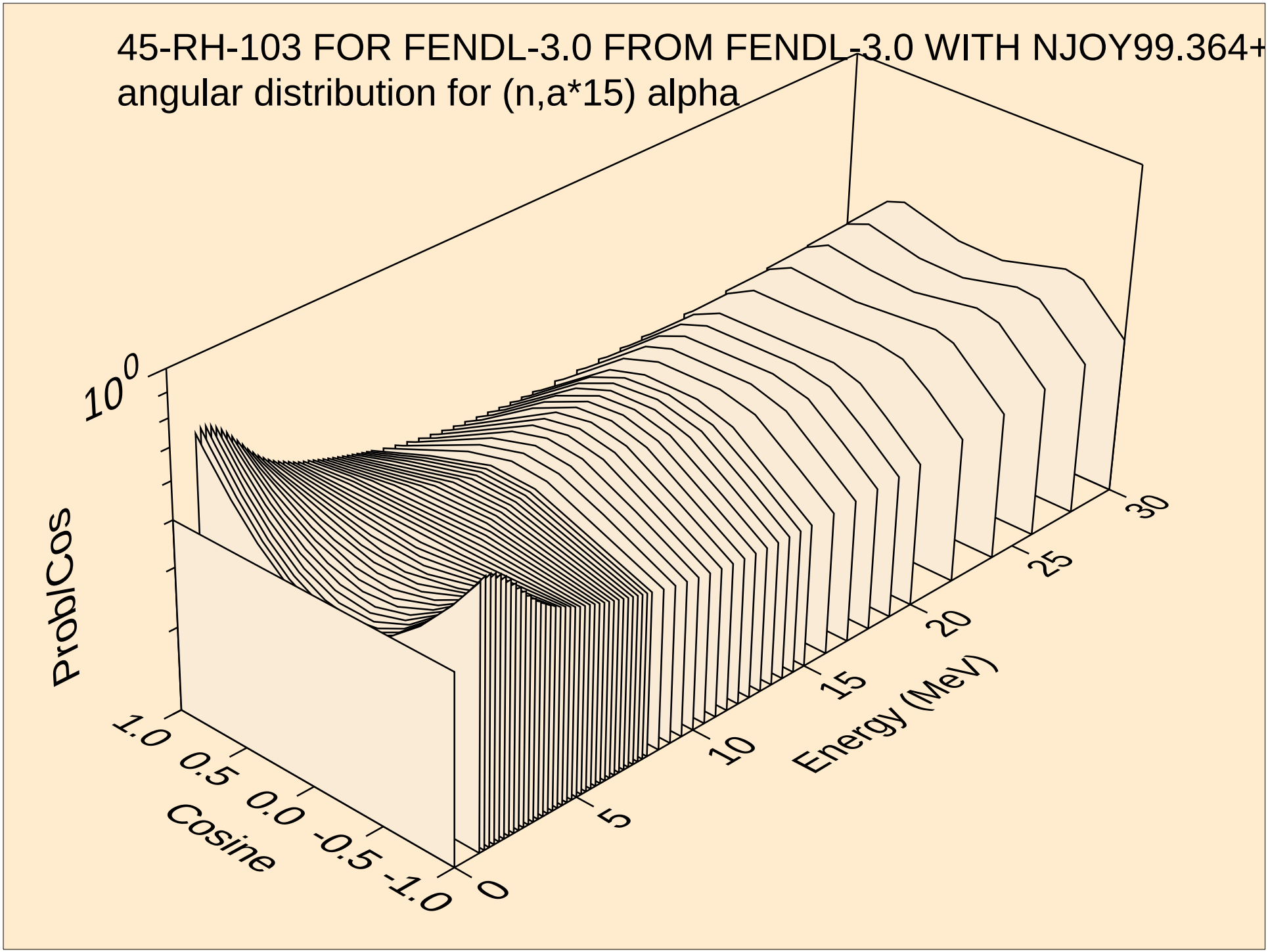

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*10) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

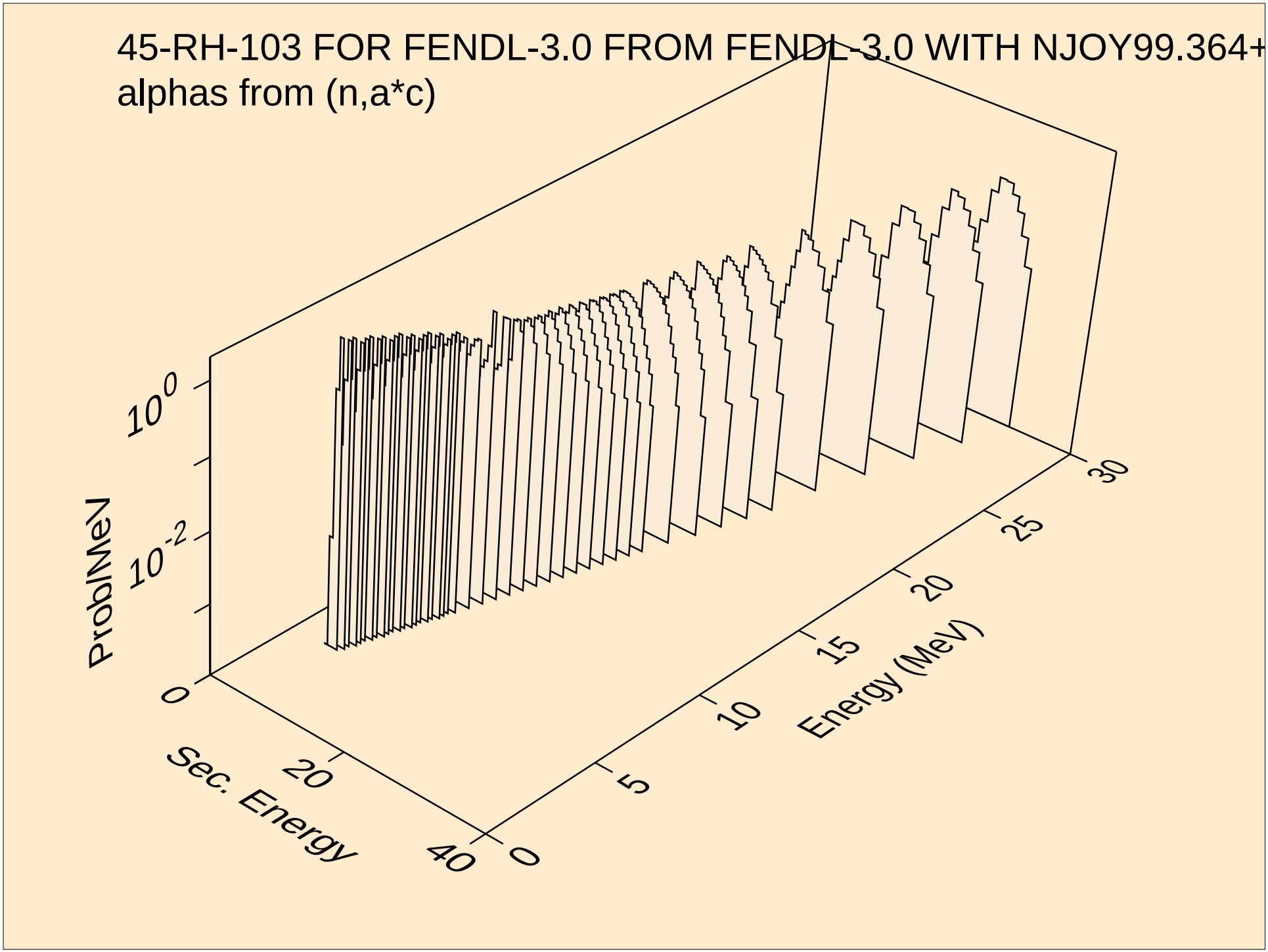

45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*11) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)


45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*12) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)


45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*13) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)


45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*14) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)


45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
angular distribution for (n,a*15) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)


45-RH-103 FOR FENDL-3.0 FROM FENDL-3.0 WITH NJOY99.364+
alphas from (n,a*c)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)