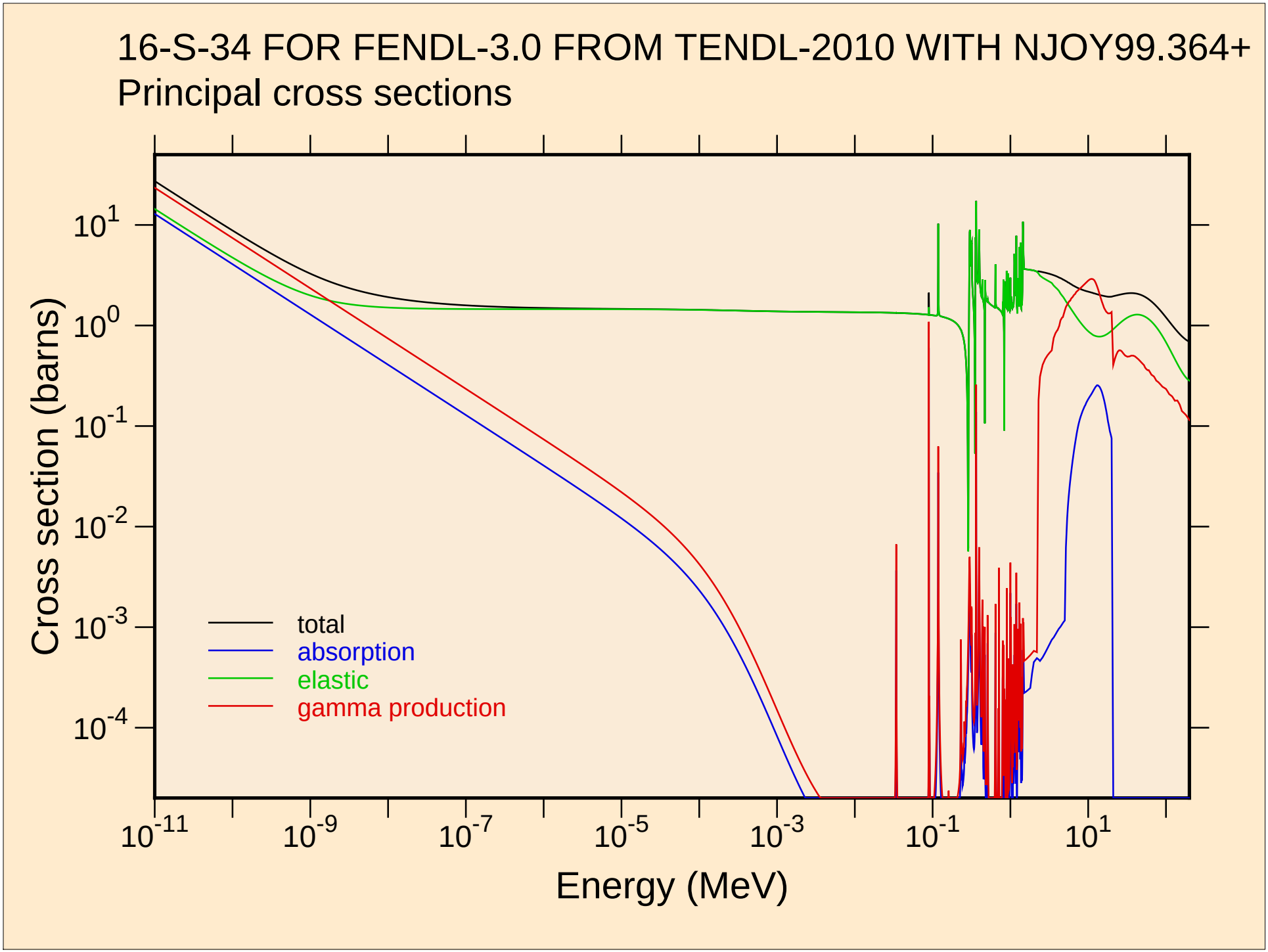
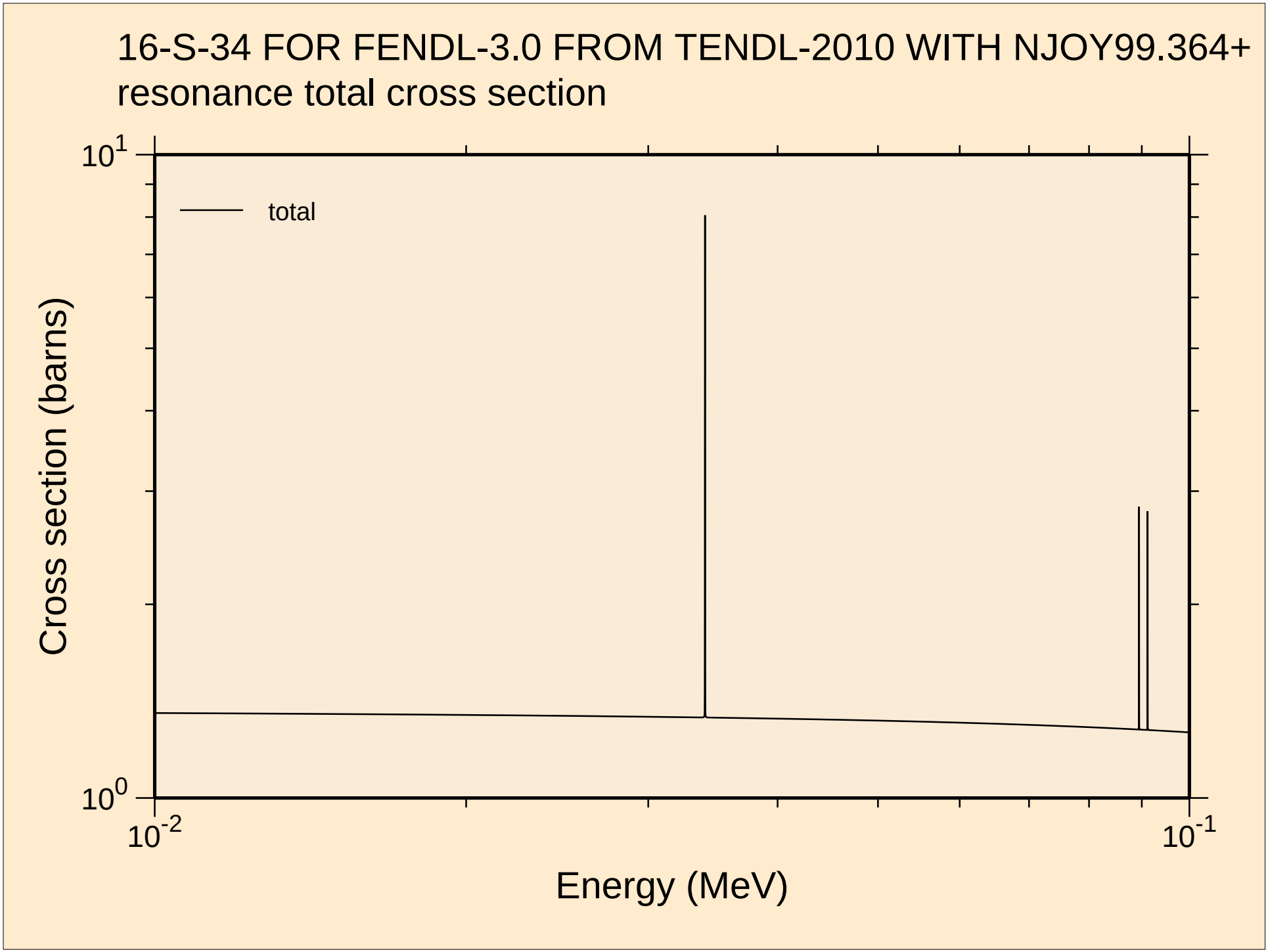
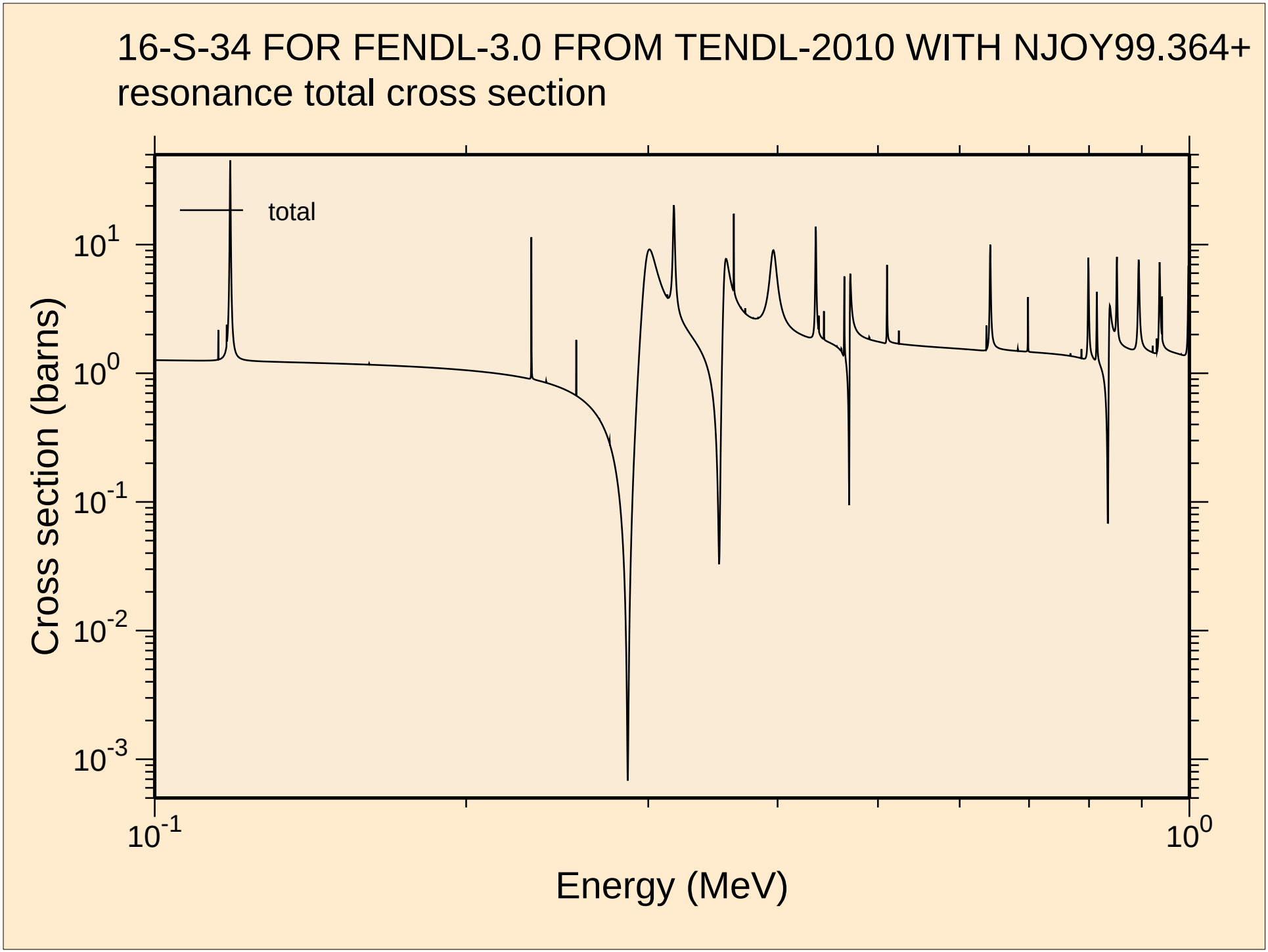
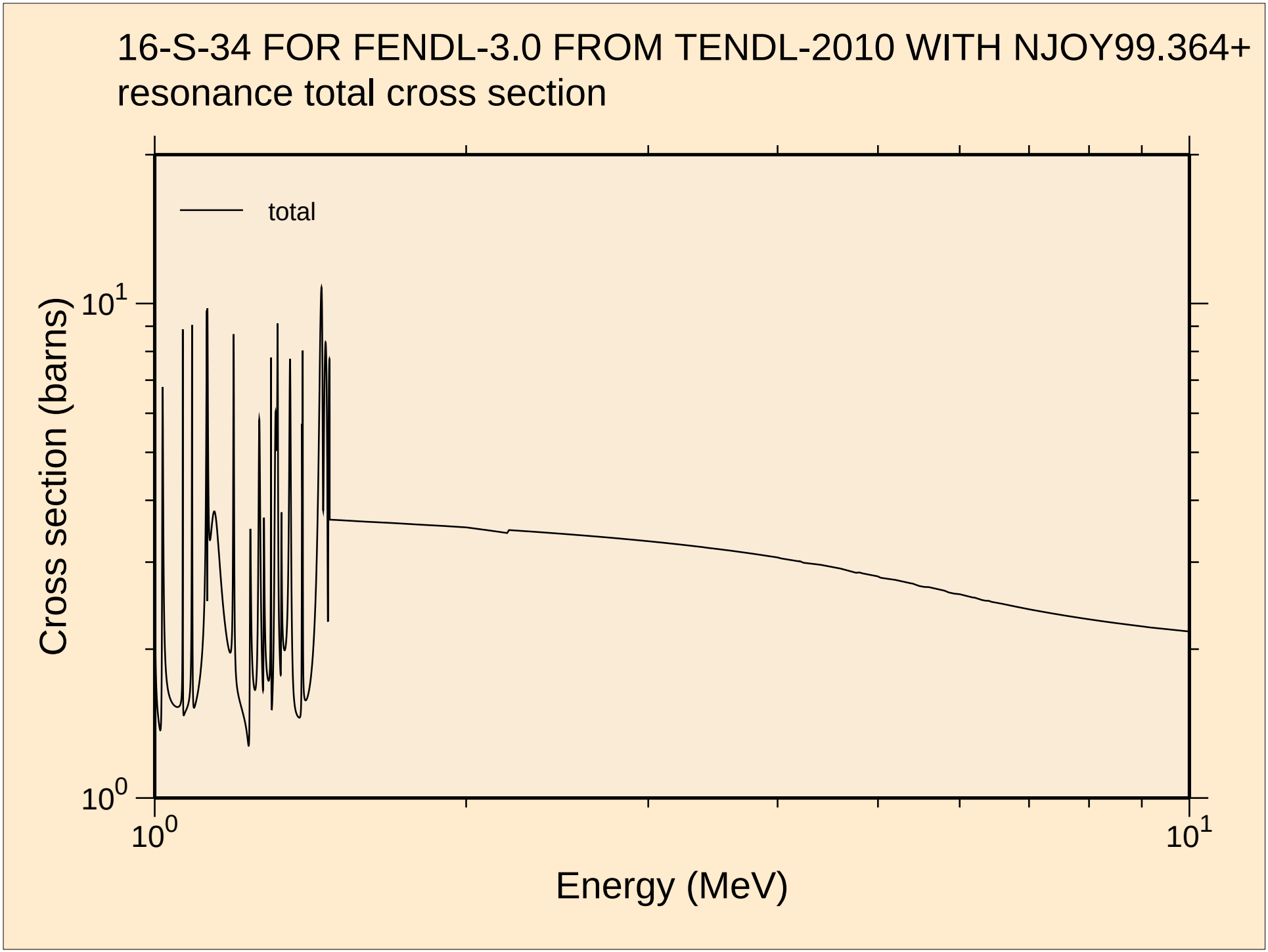
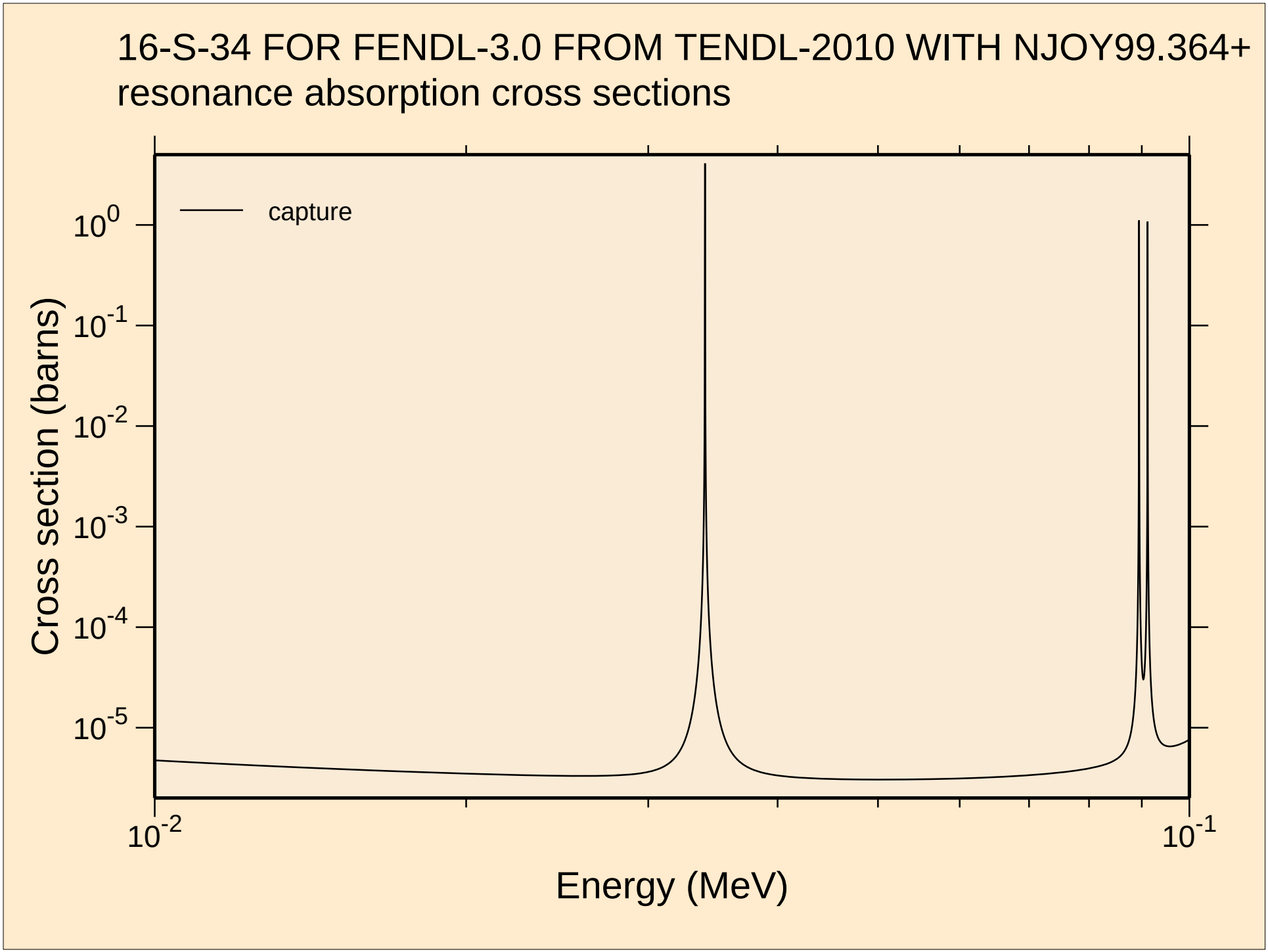
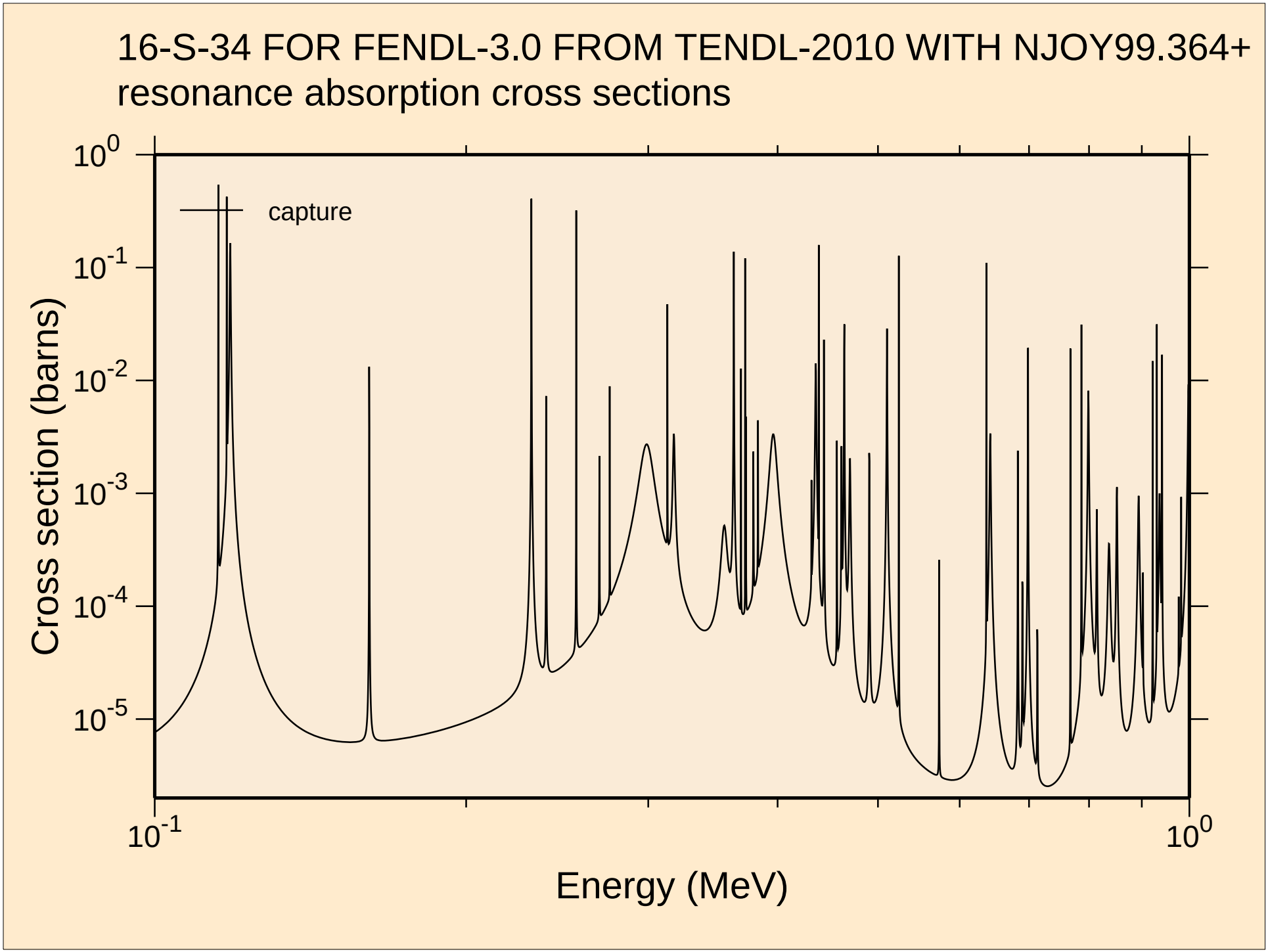

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Principal cross sections
Cross section (barns)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
total
absorption
elastic
gamma production
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

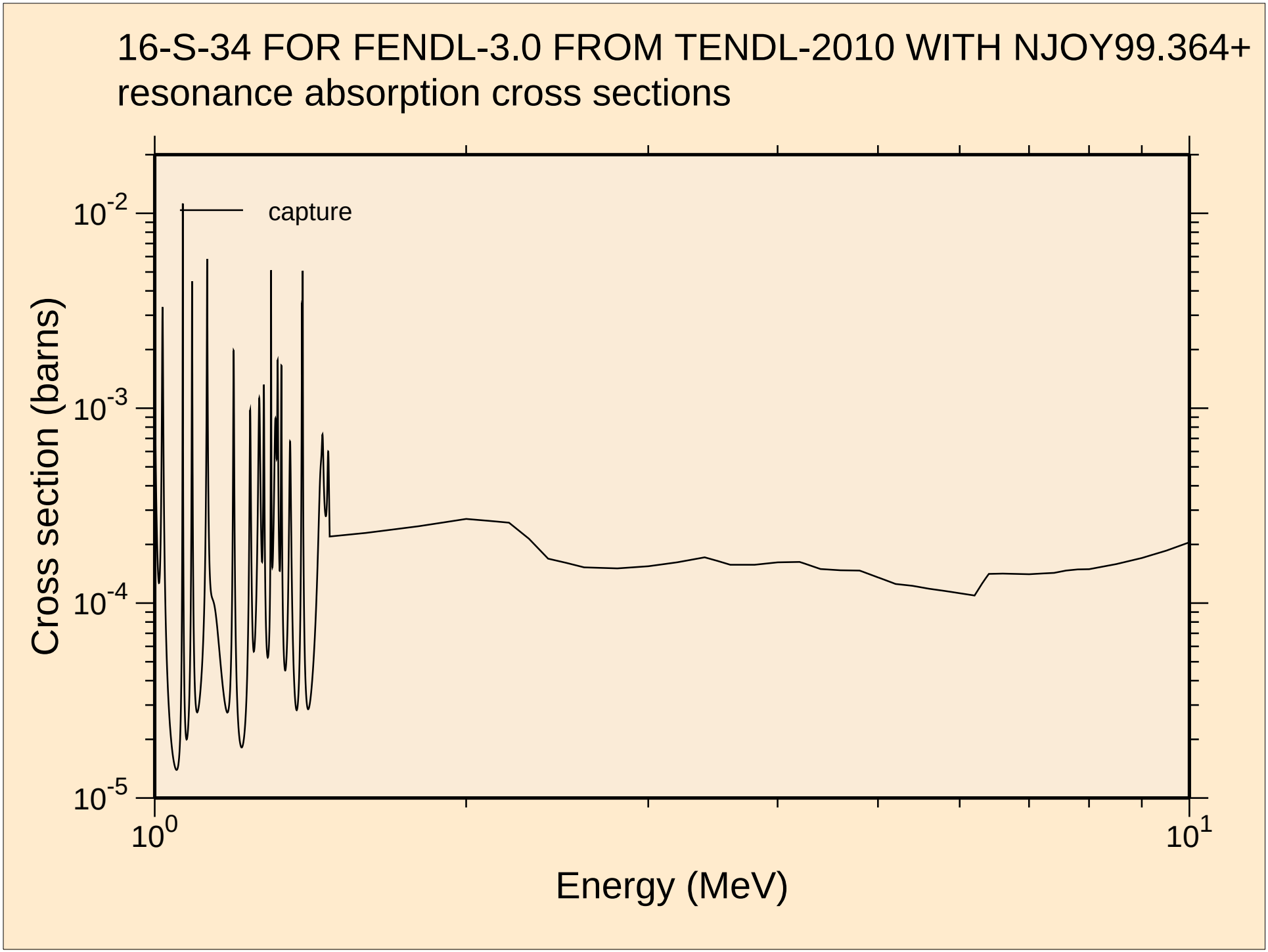

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^1
10^0
10^{-2}
10^{-1}
Energy (MeV)

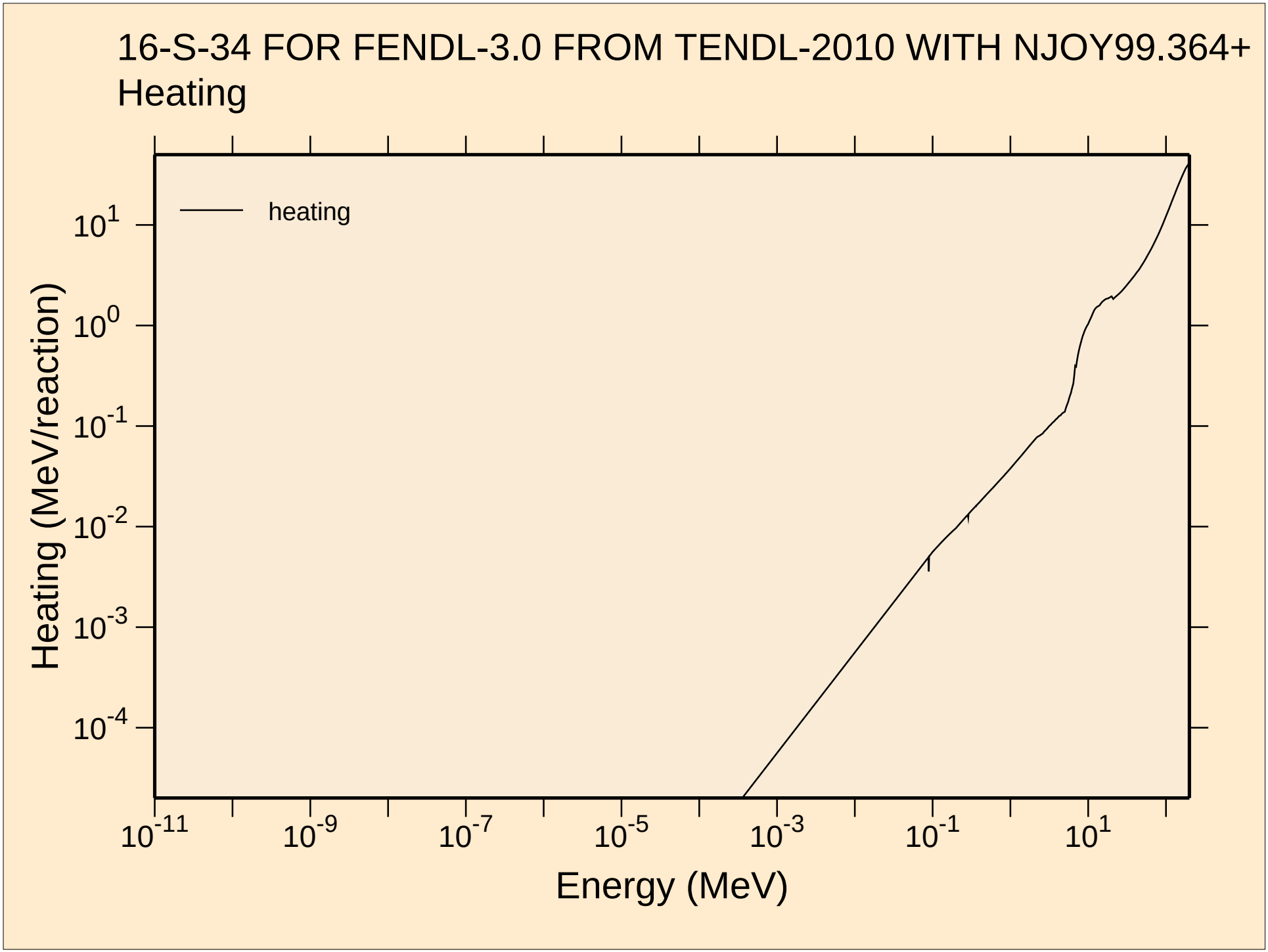

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^1
10^0
10^-1
10^-2
10^-3
10^-1
10^0
Energy (MeV)

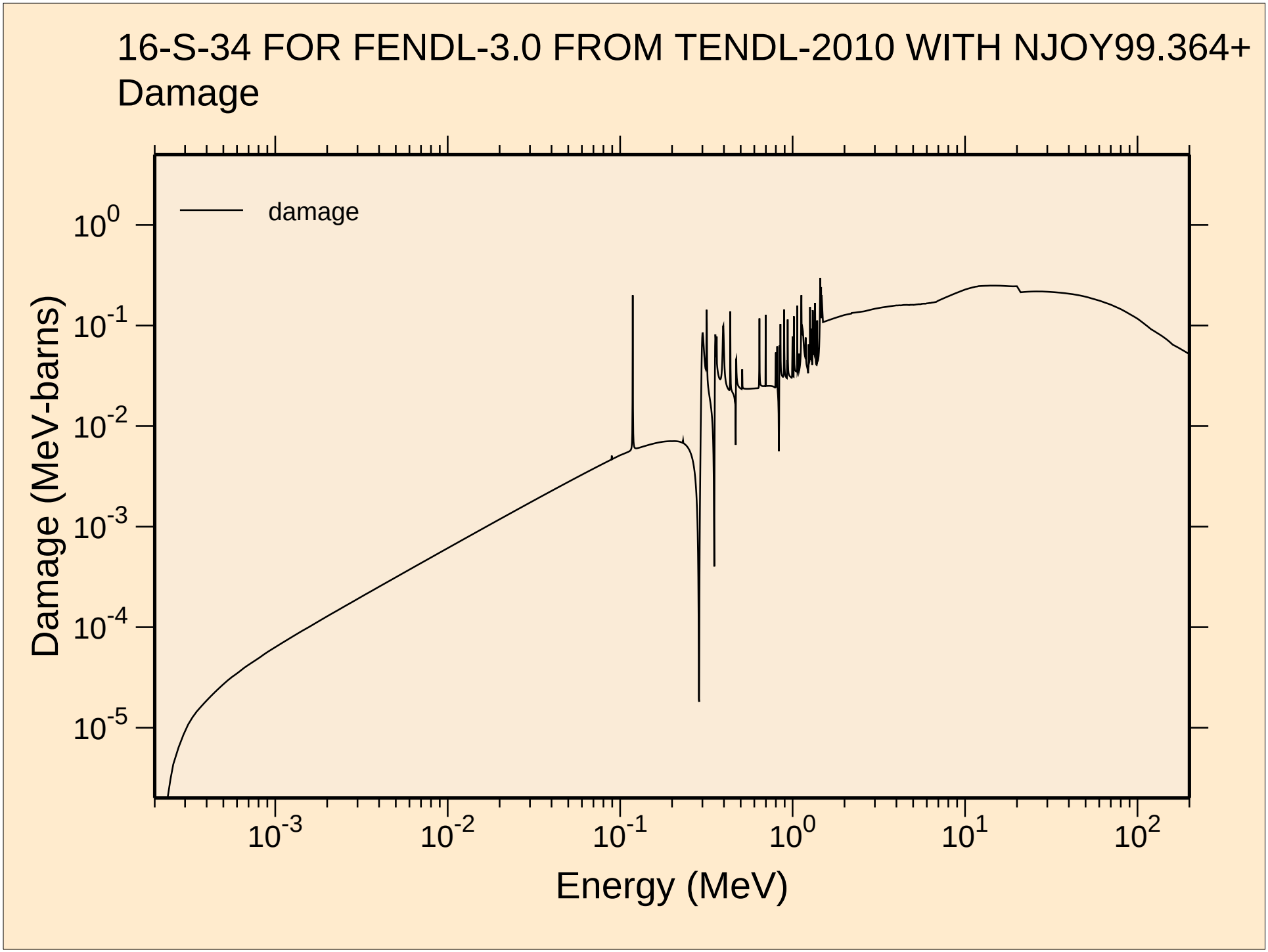

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^1
10^0
10^0
10^1
Energy (MeV)

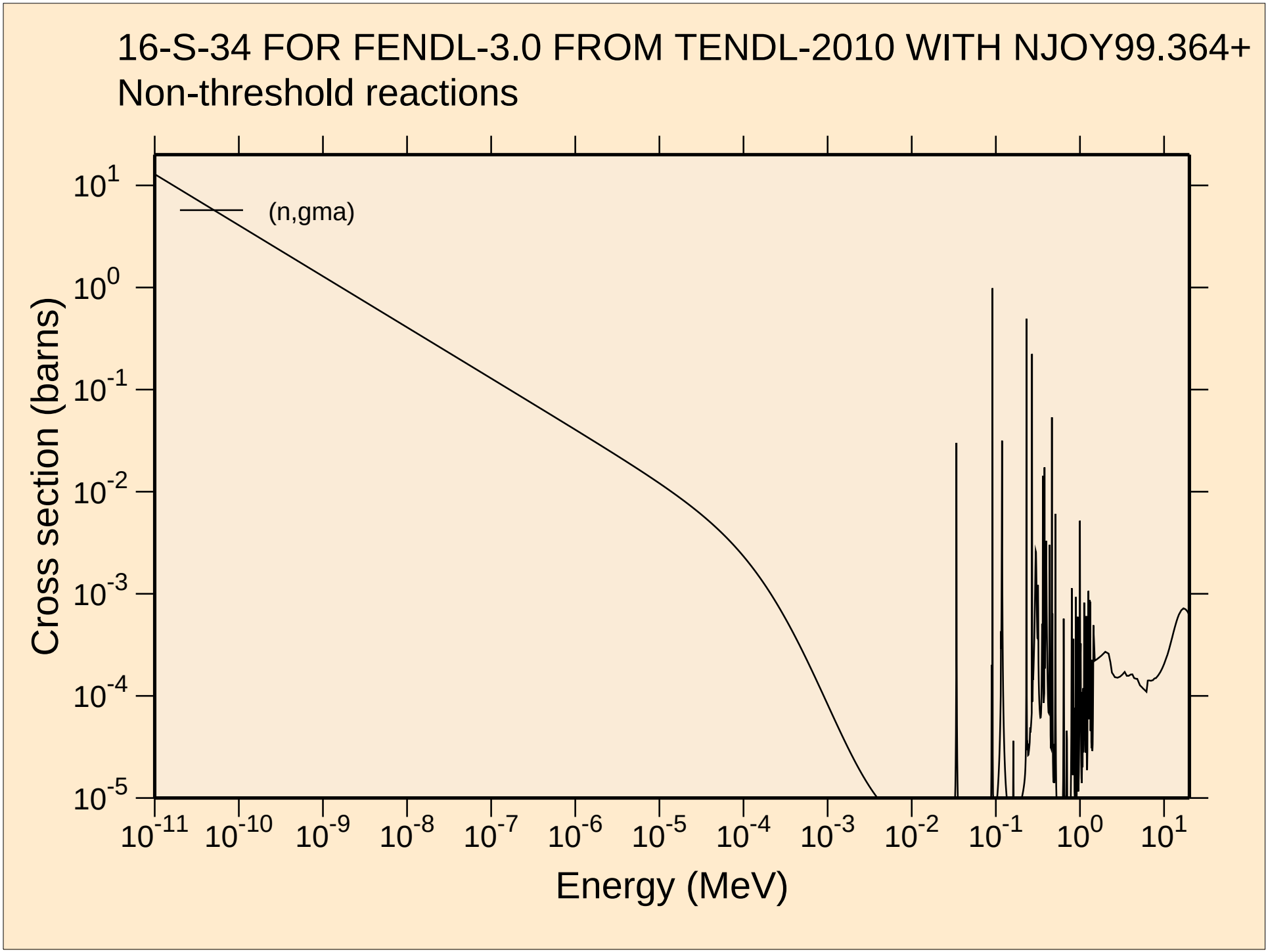

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-2
10^-1
Energy (MeV)

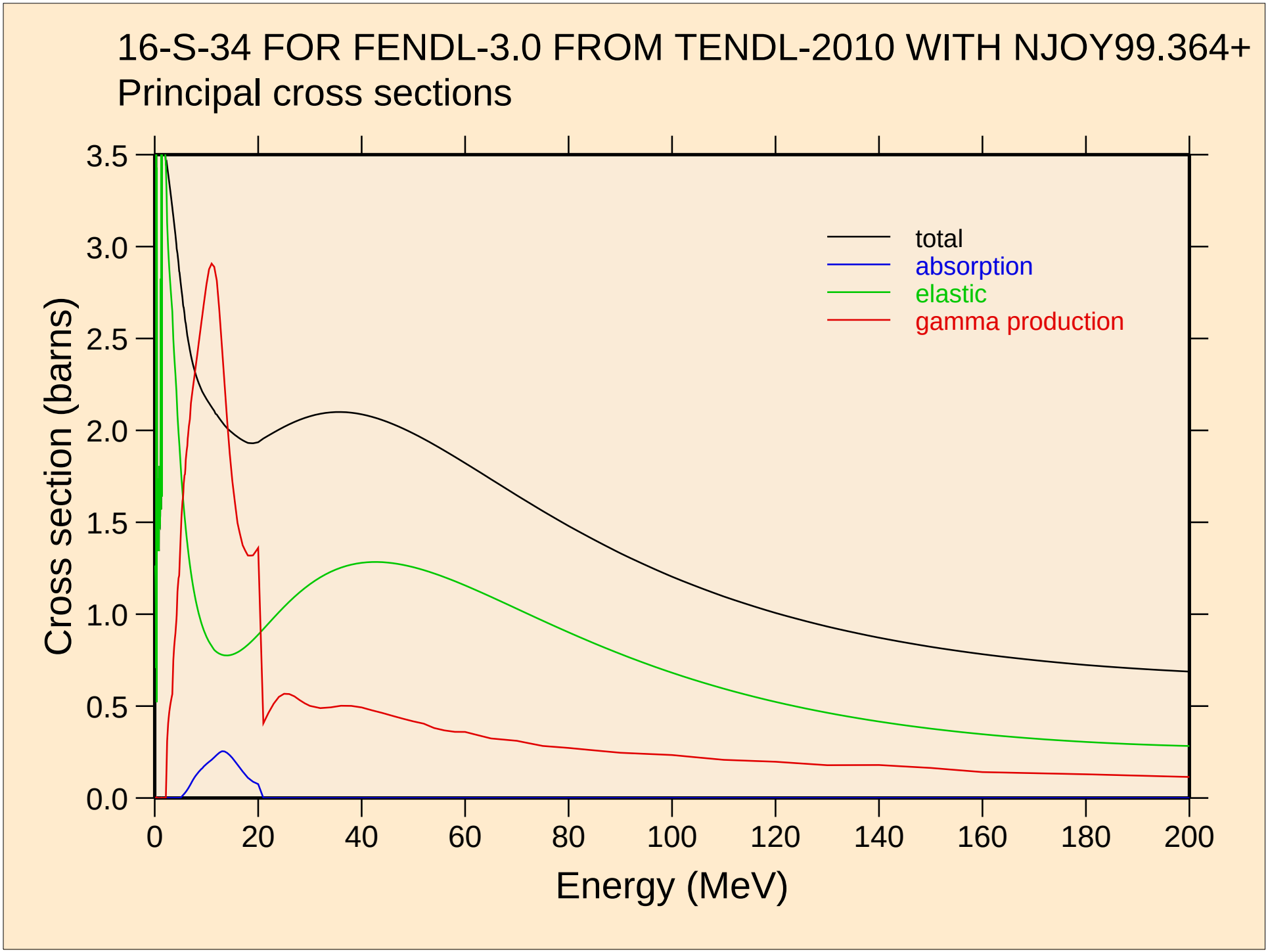

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-1
10^0
Energy (MeV)

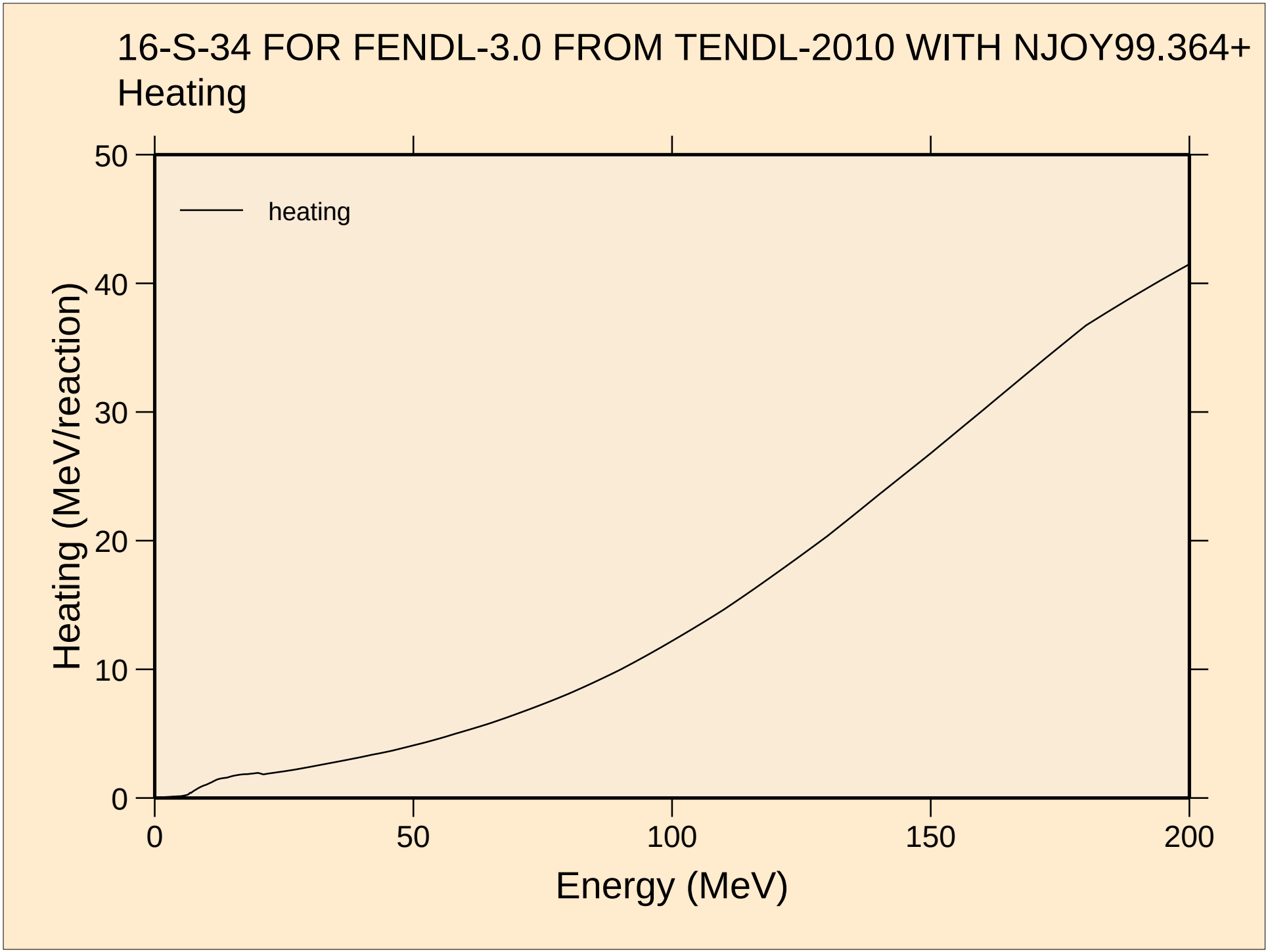

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10-2
10-3
10-4
10-5
100
101
Energy (MeV)

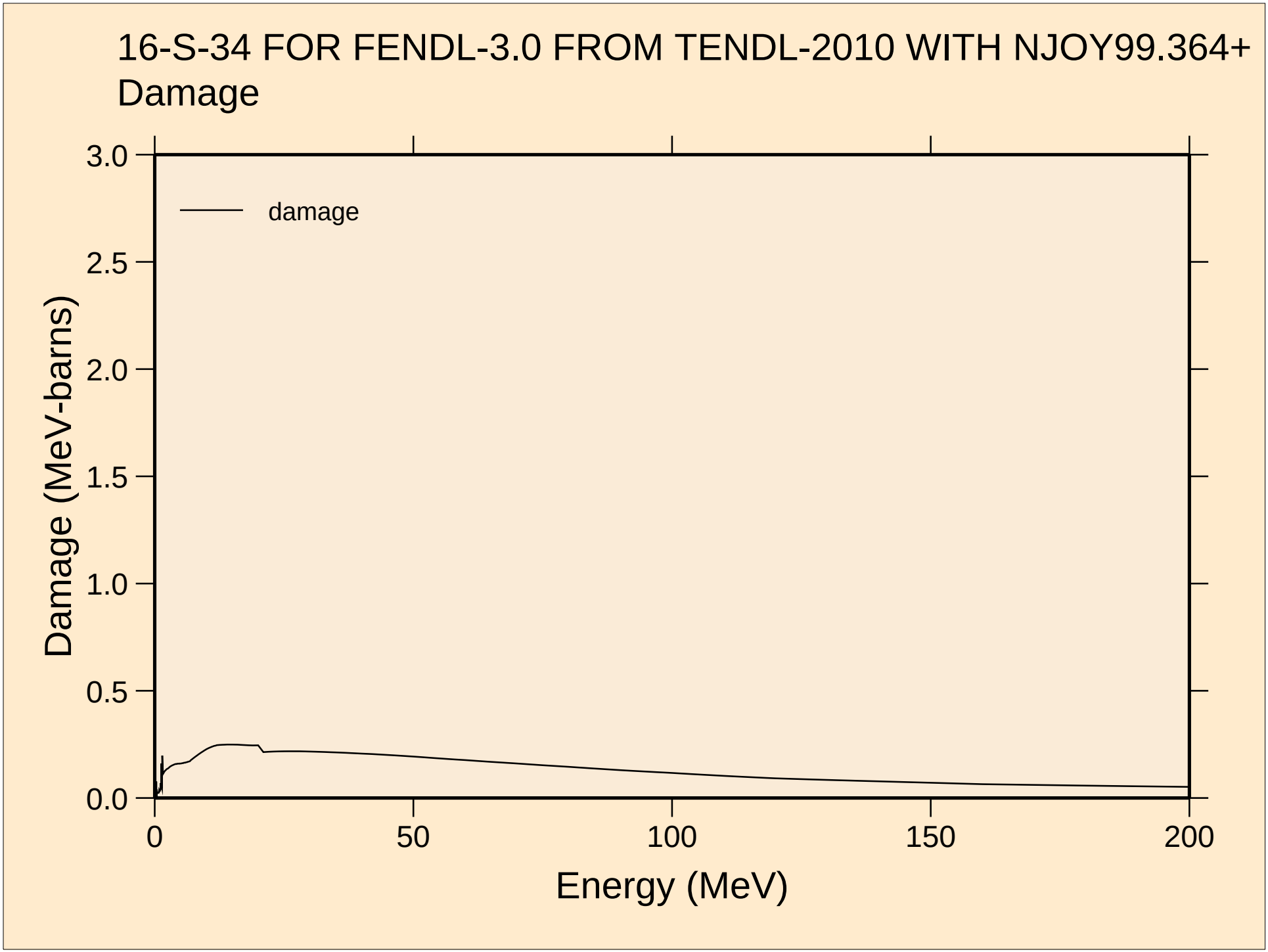

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Heating
heating
Heating (MeV/reaction)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

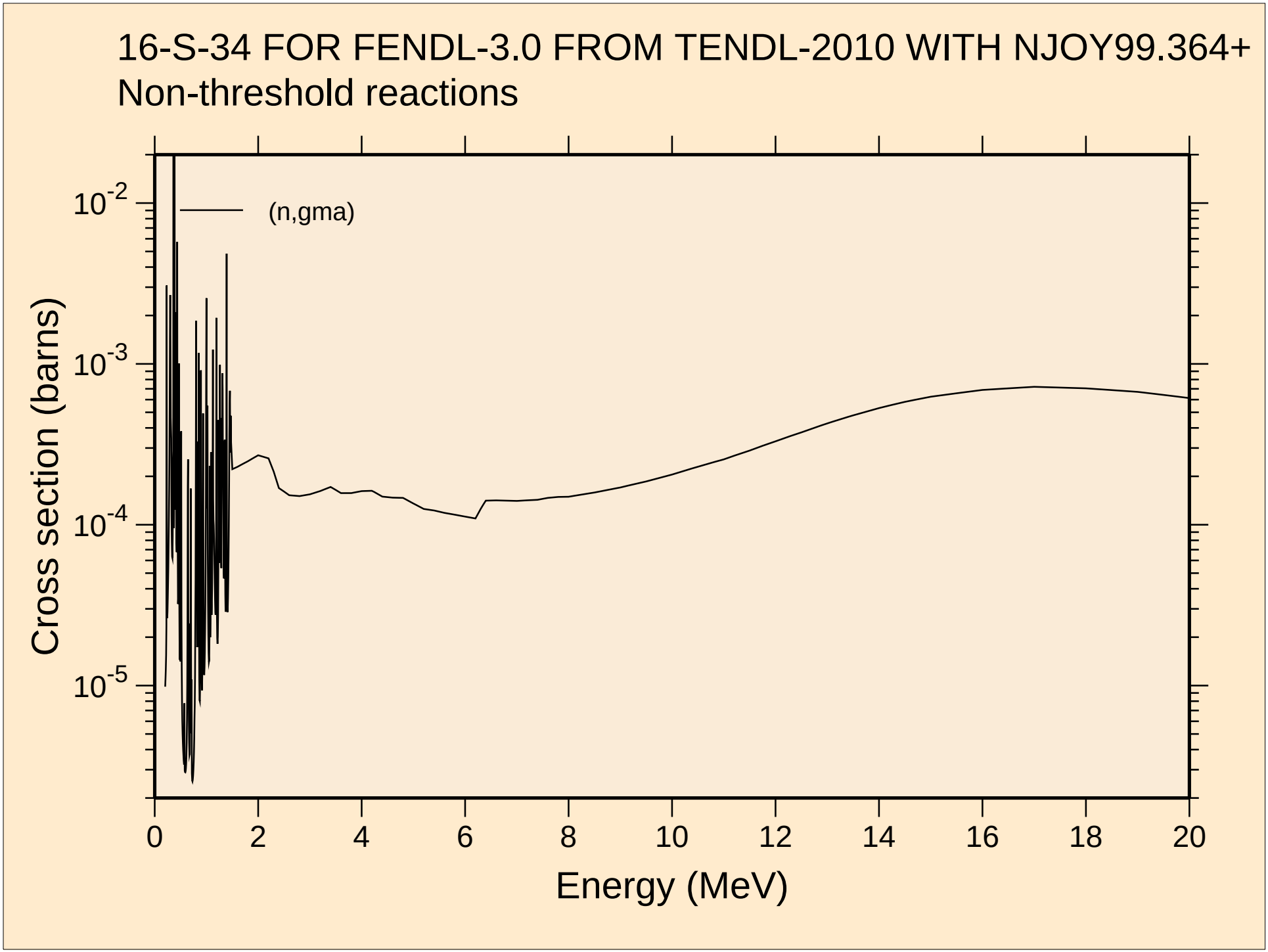

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Damage
damage
Damage (MeV-barns)
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}
10^{2}
Energy (MeV)

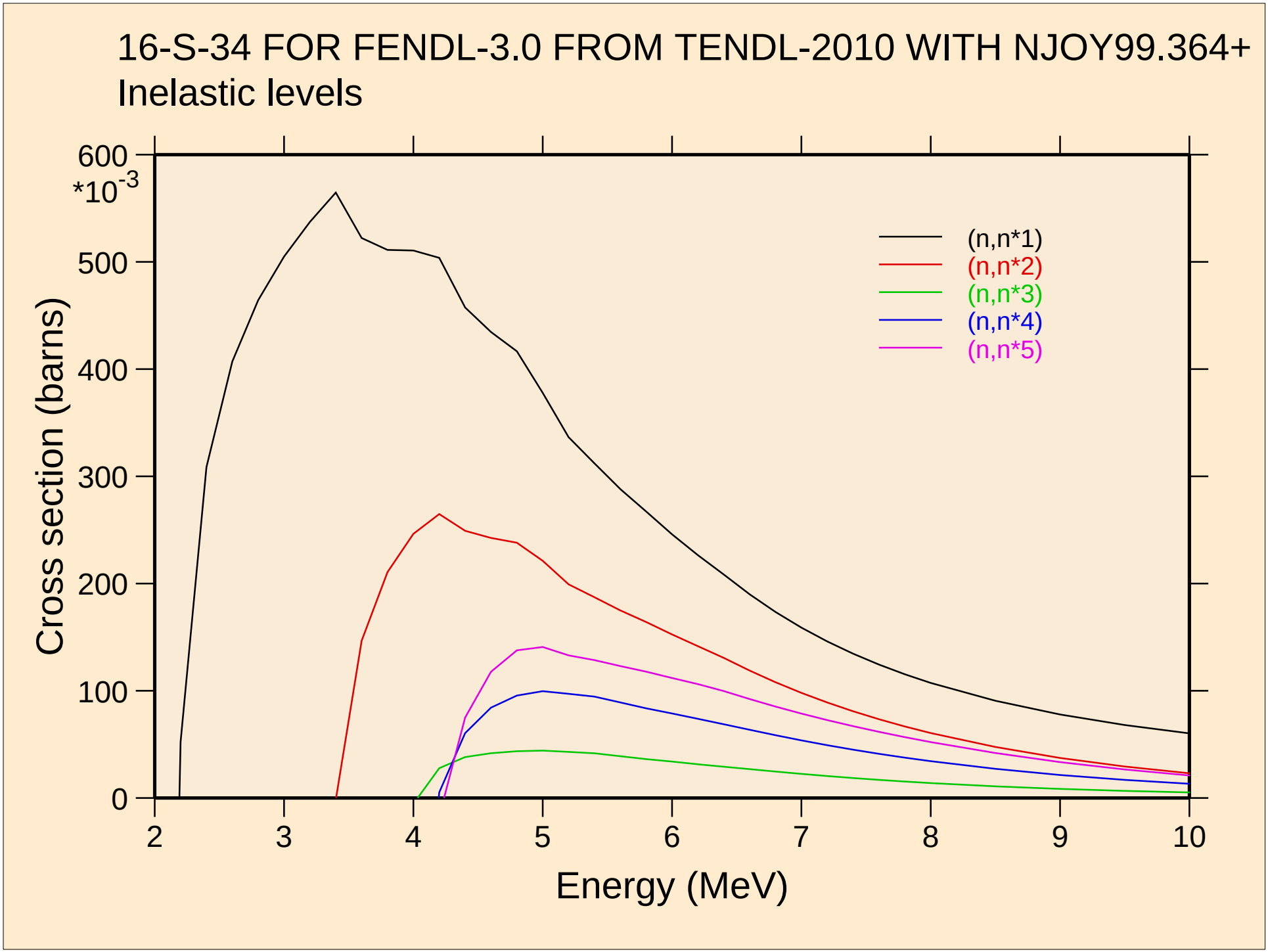

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Non-threshold reactions
(n,gma)
Cross section (barns)
Energy (MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

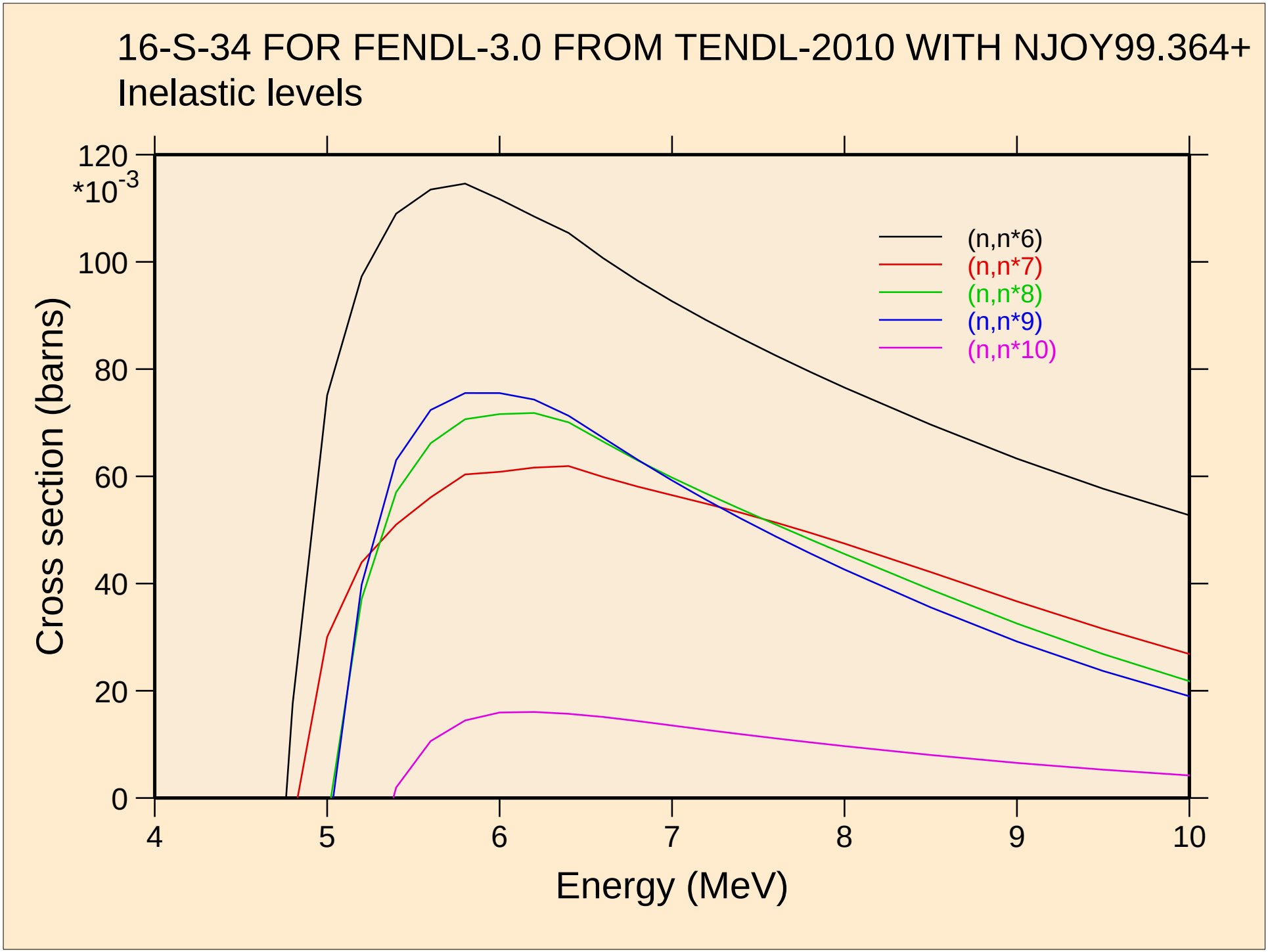

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
20
40
60
80
100
120
140
160
180
200

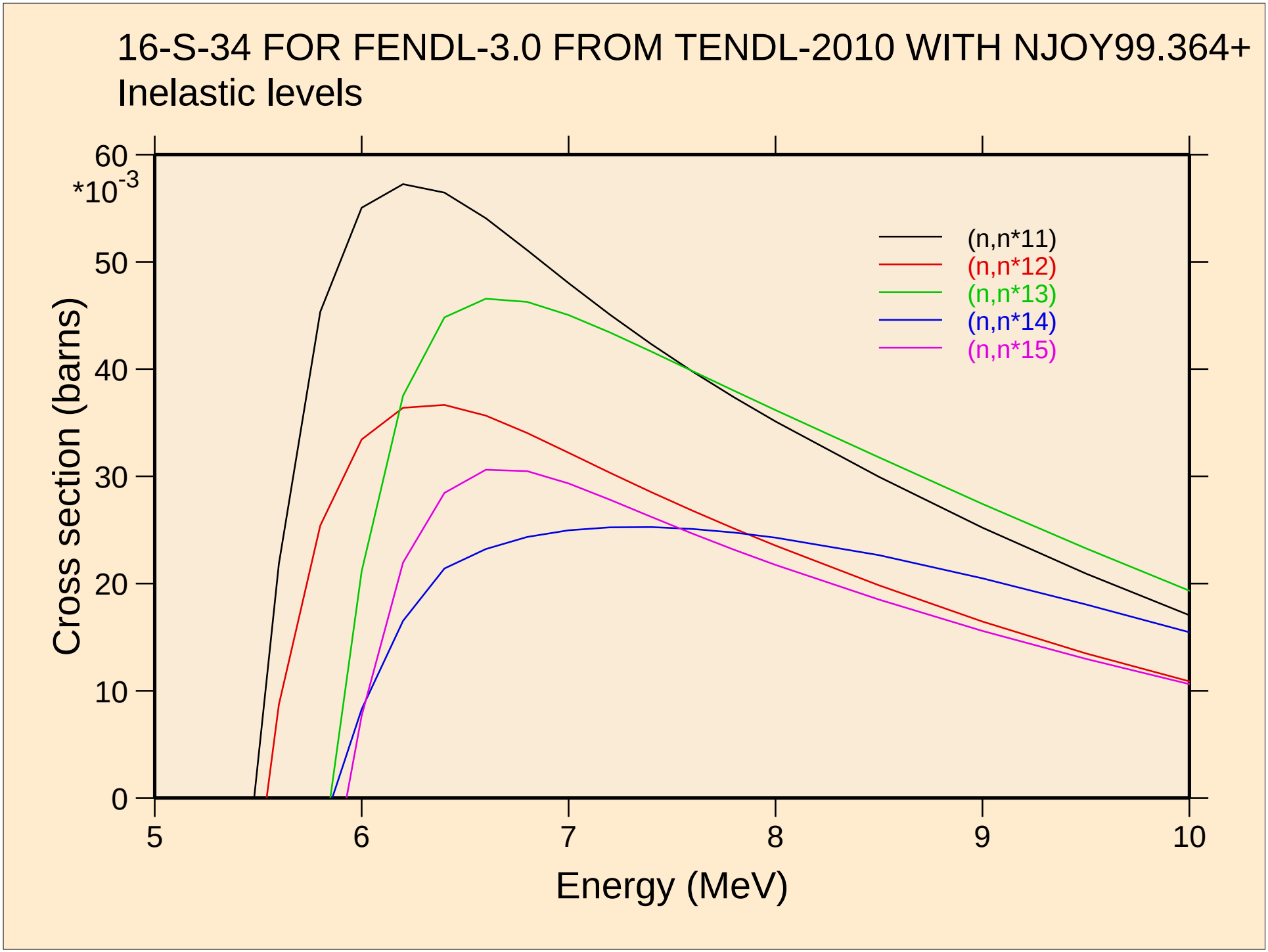

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
0
50
100
150
200

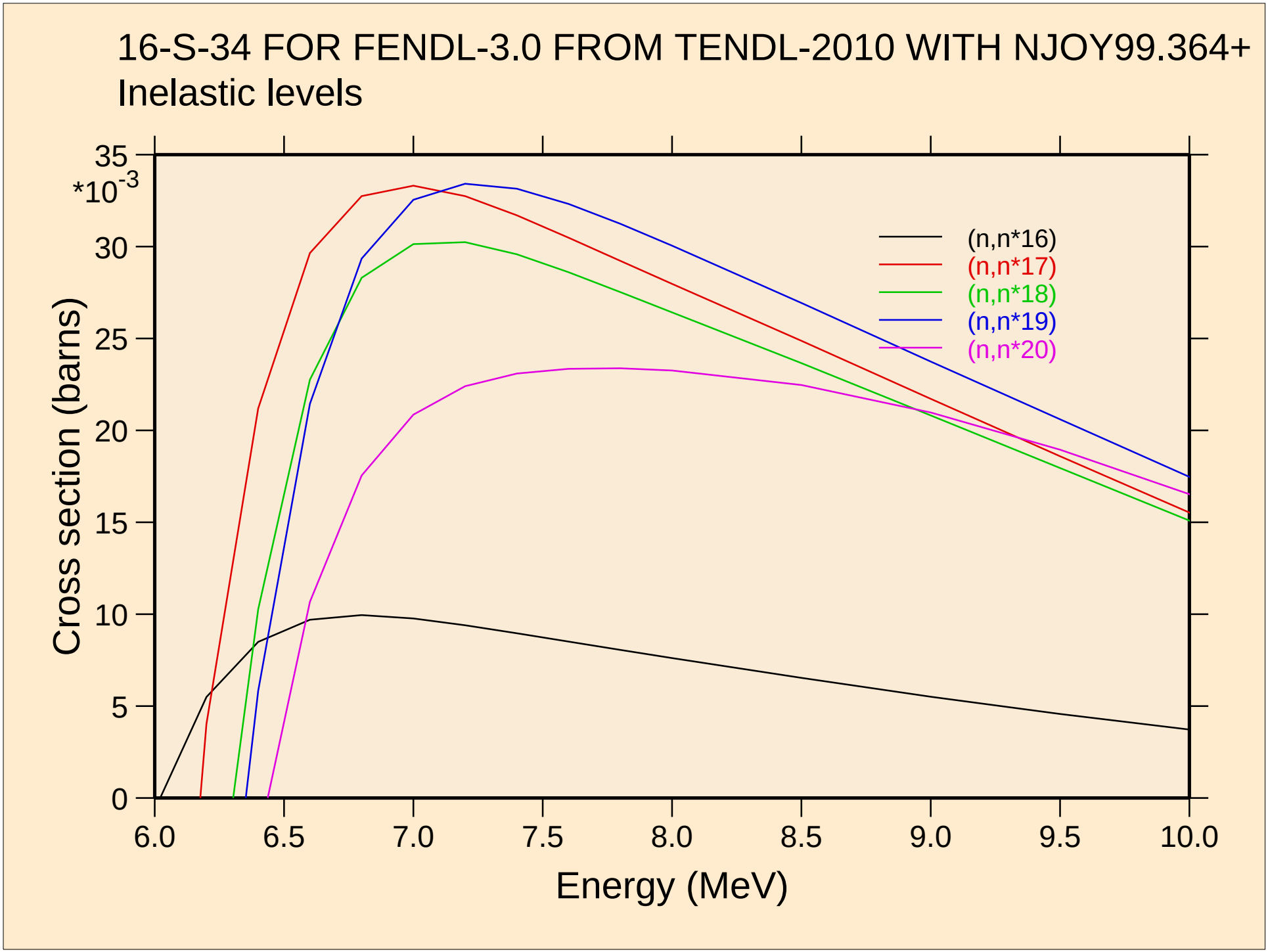

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Damage
damage
Damage (MeV-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
50
100
150
200
Energy (MeV)

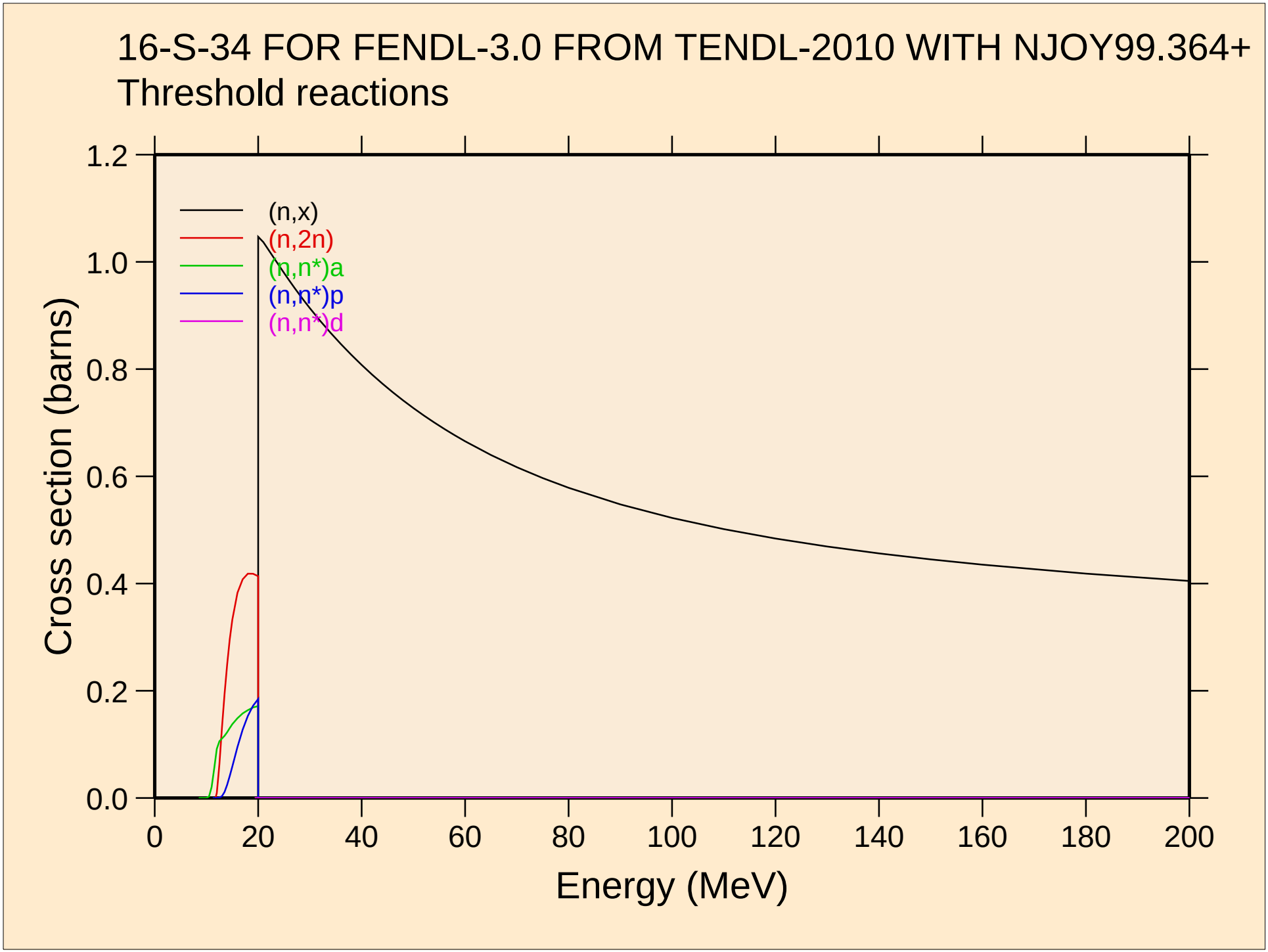

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Non-threshold reactions
(n,gma)
Cross section (barns)
10-2
10-3
10-4
10-5
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

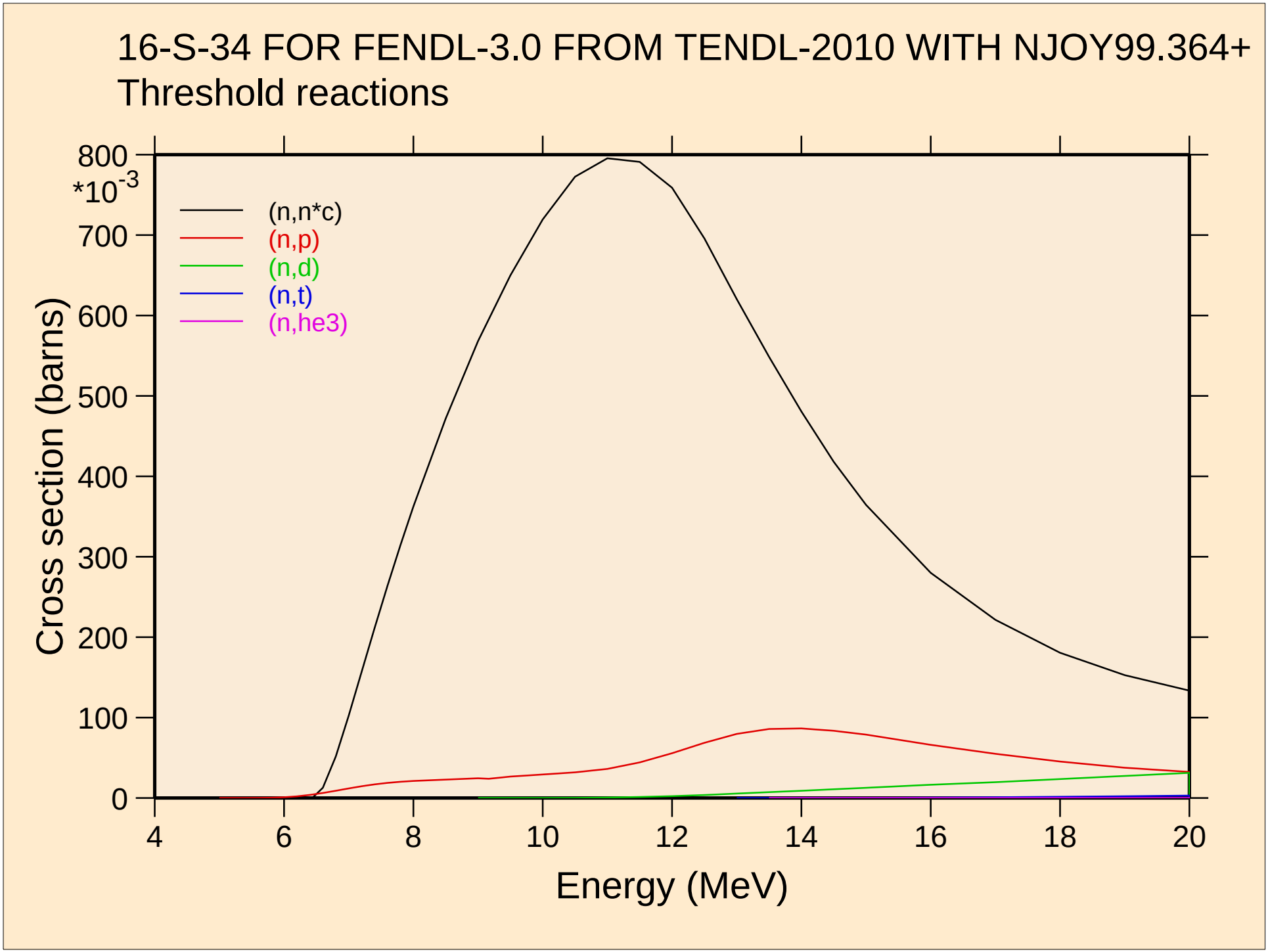

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Inelastic levels
Cross section (barns)
*10-3
600
500
400
300
200
100
0
2
3
4
5
6
7
8
9
10
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

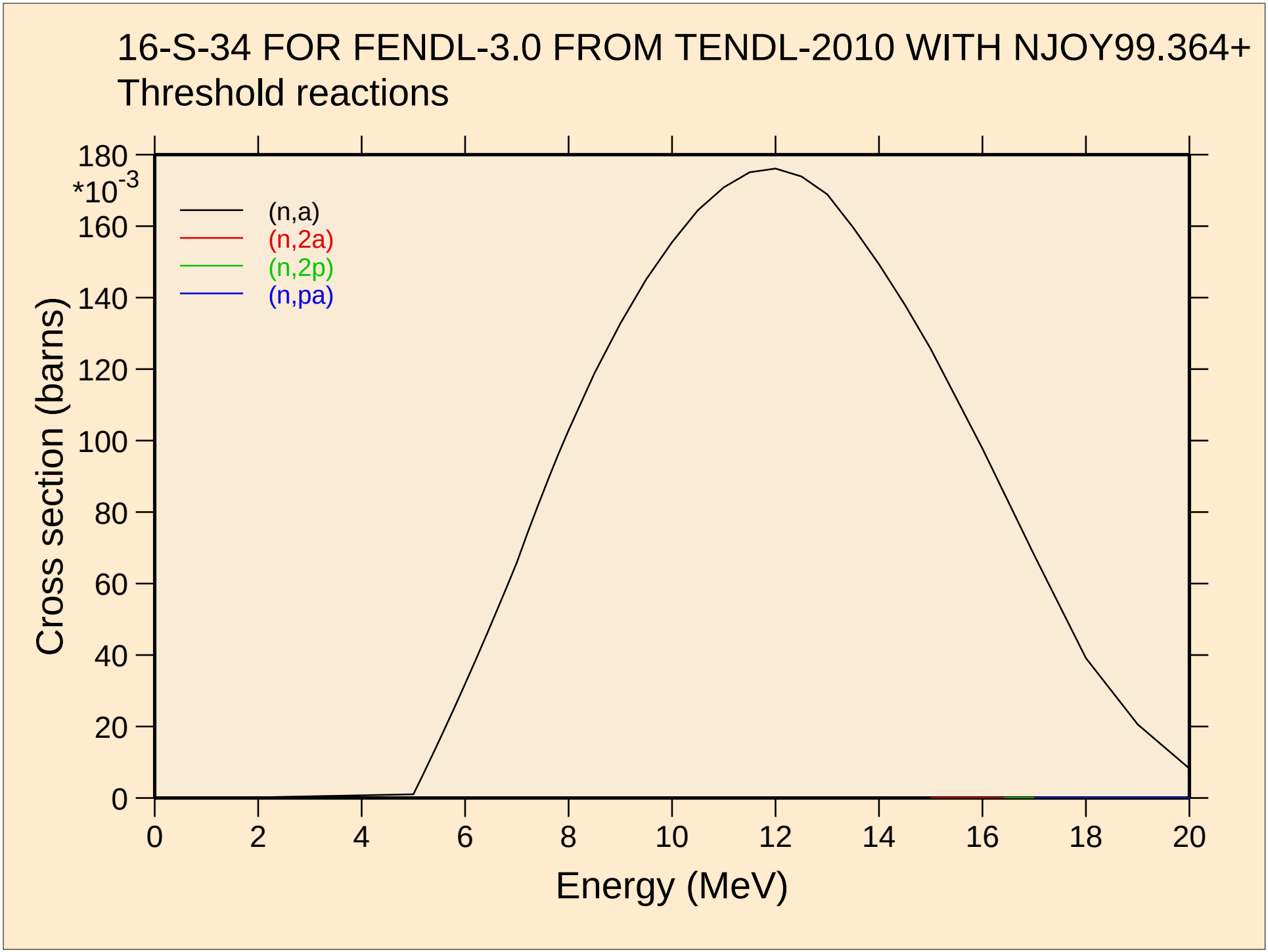

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Inelastic levels
120
*10-3
100
80
60
40
20
0
Cross section (barns)
4
5
6
7
8
9
10
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

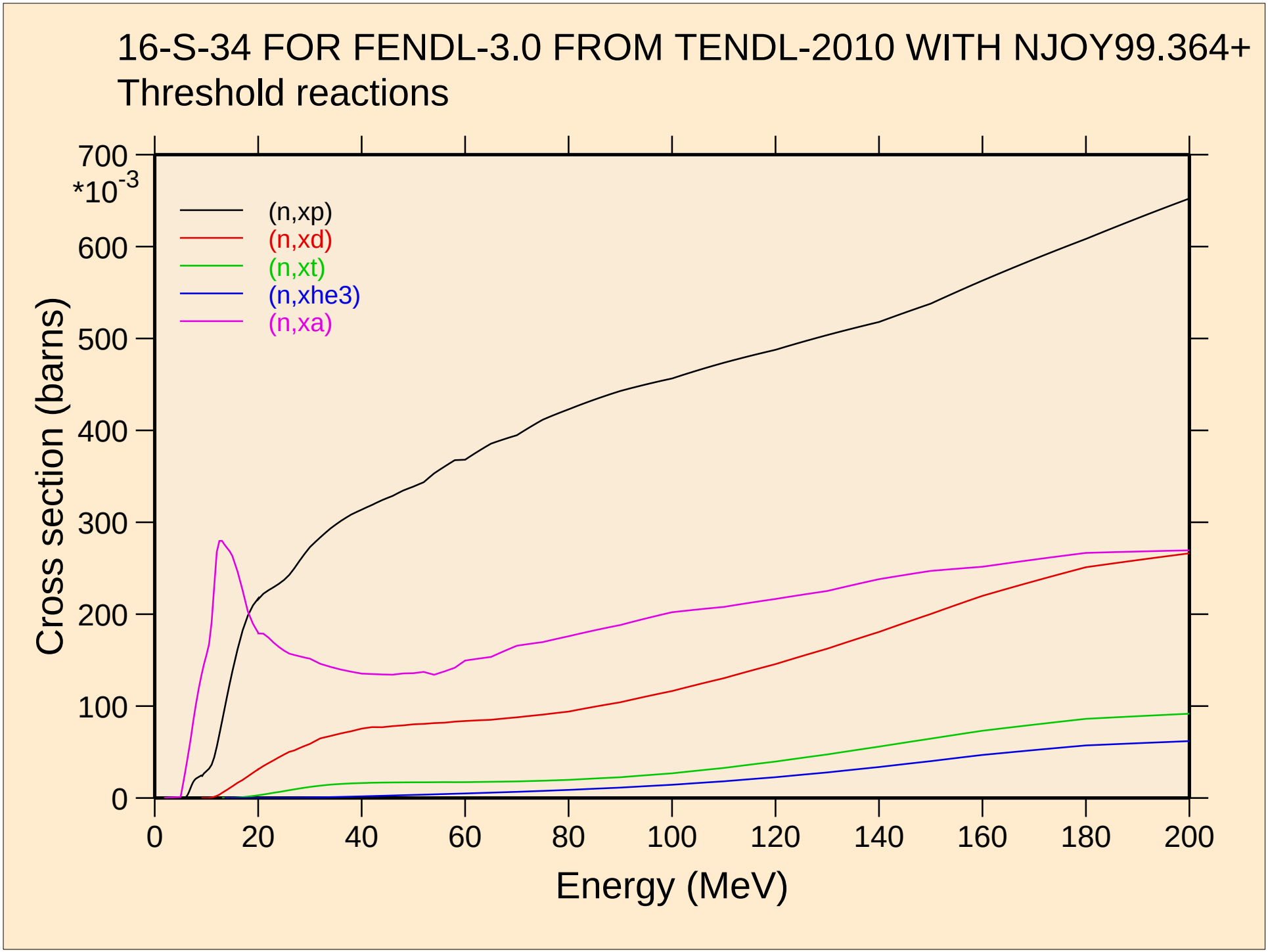

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Inelastic levels
Cross section (barns)
*10-3
60
50
40
30
20
10
0
5
6
7
8
9
10
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

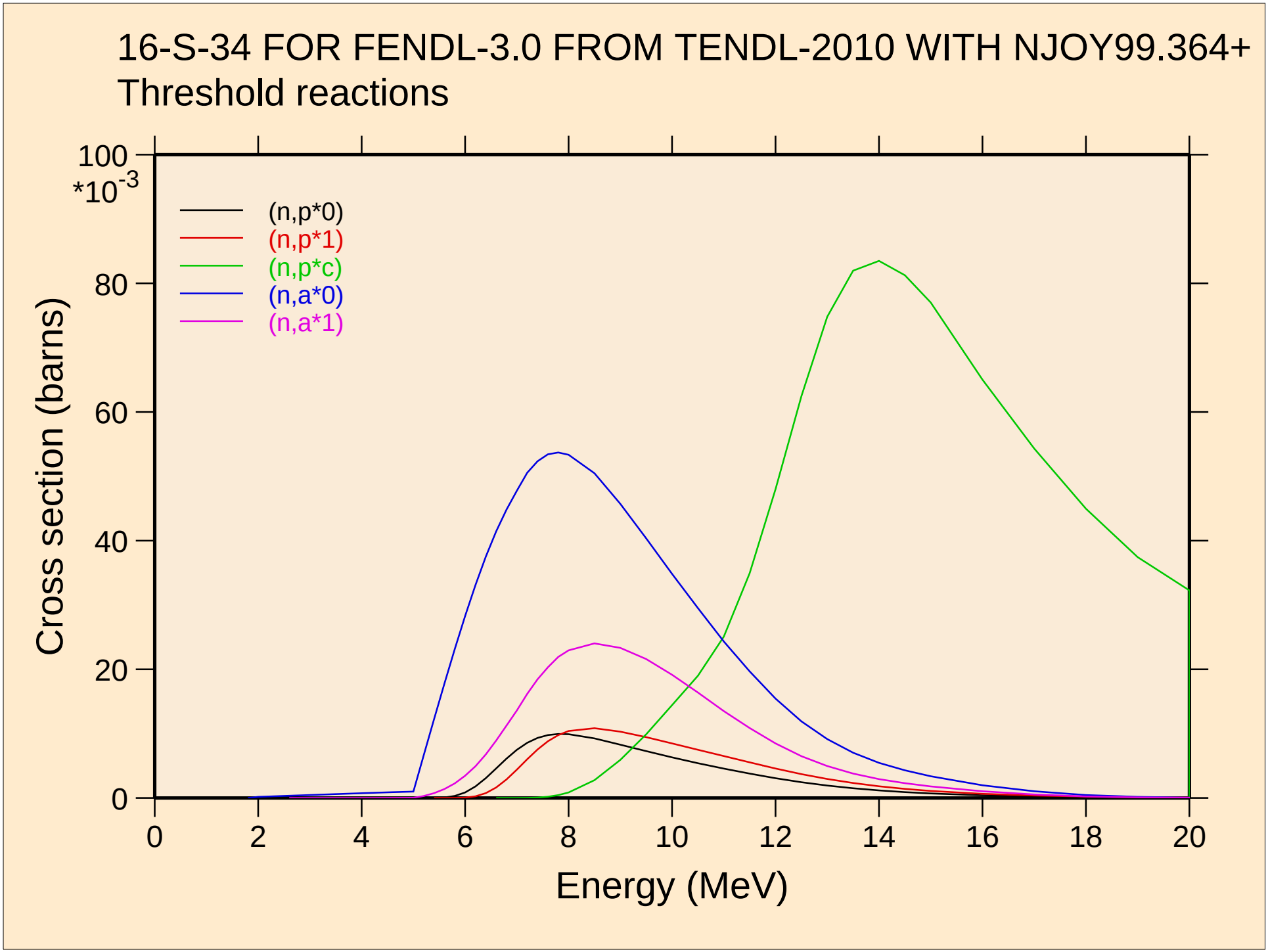

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Inelastic levels
Cross section (barns)
*10-3
35
30
25
20
15
10
5
0
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
10.0
Energy (MeV)
(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)
(n,n*20)

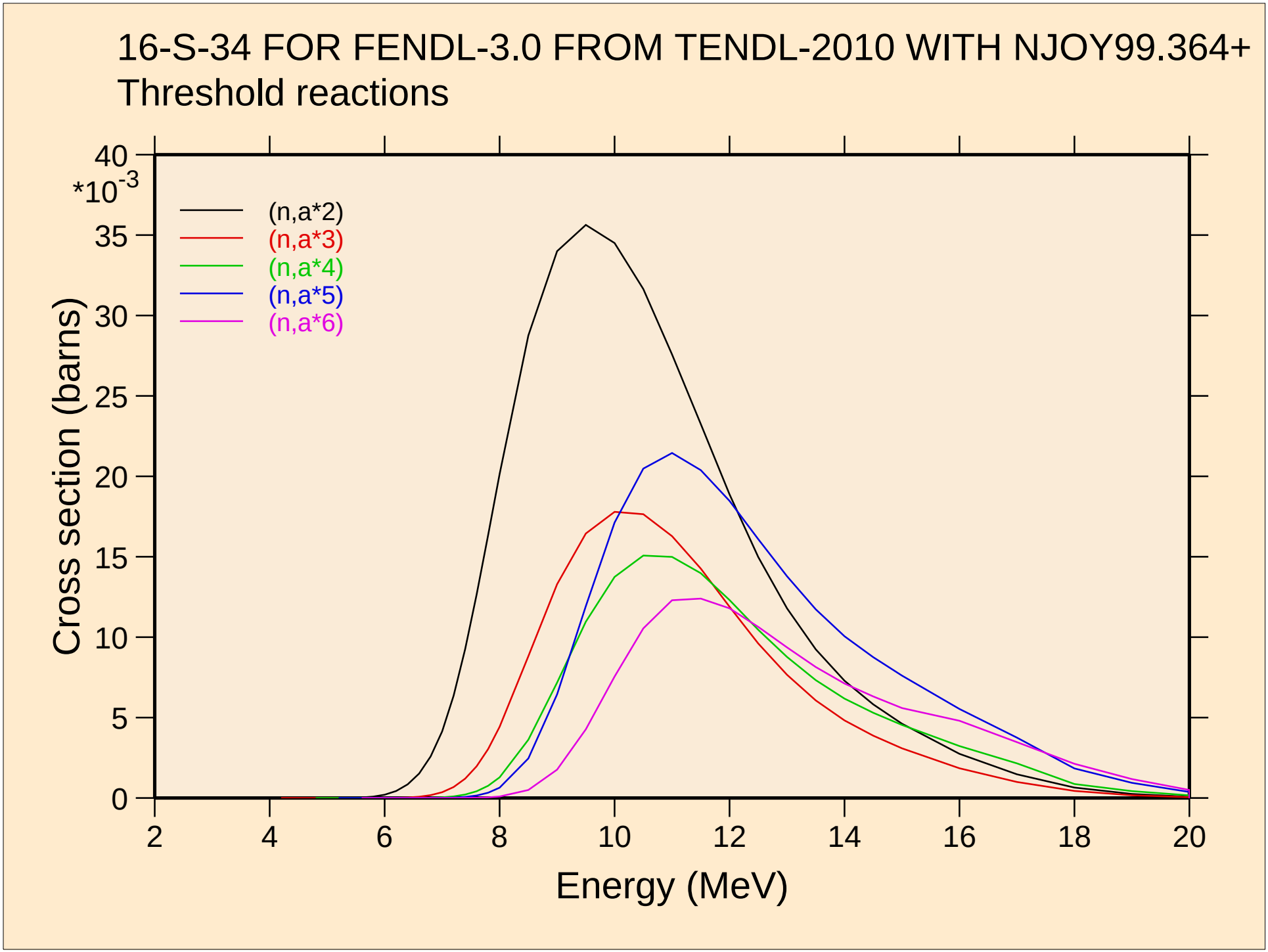

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Threshold reactions
(n,x)
(n,2n)
(n,n*)a
(n,n*)p
(n,n*)d
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
20
40
60
80
100
120
140
160
180
200

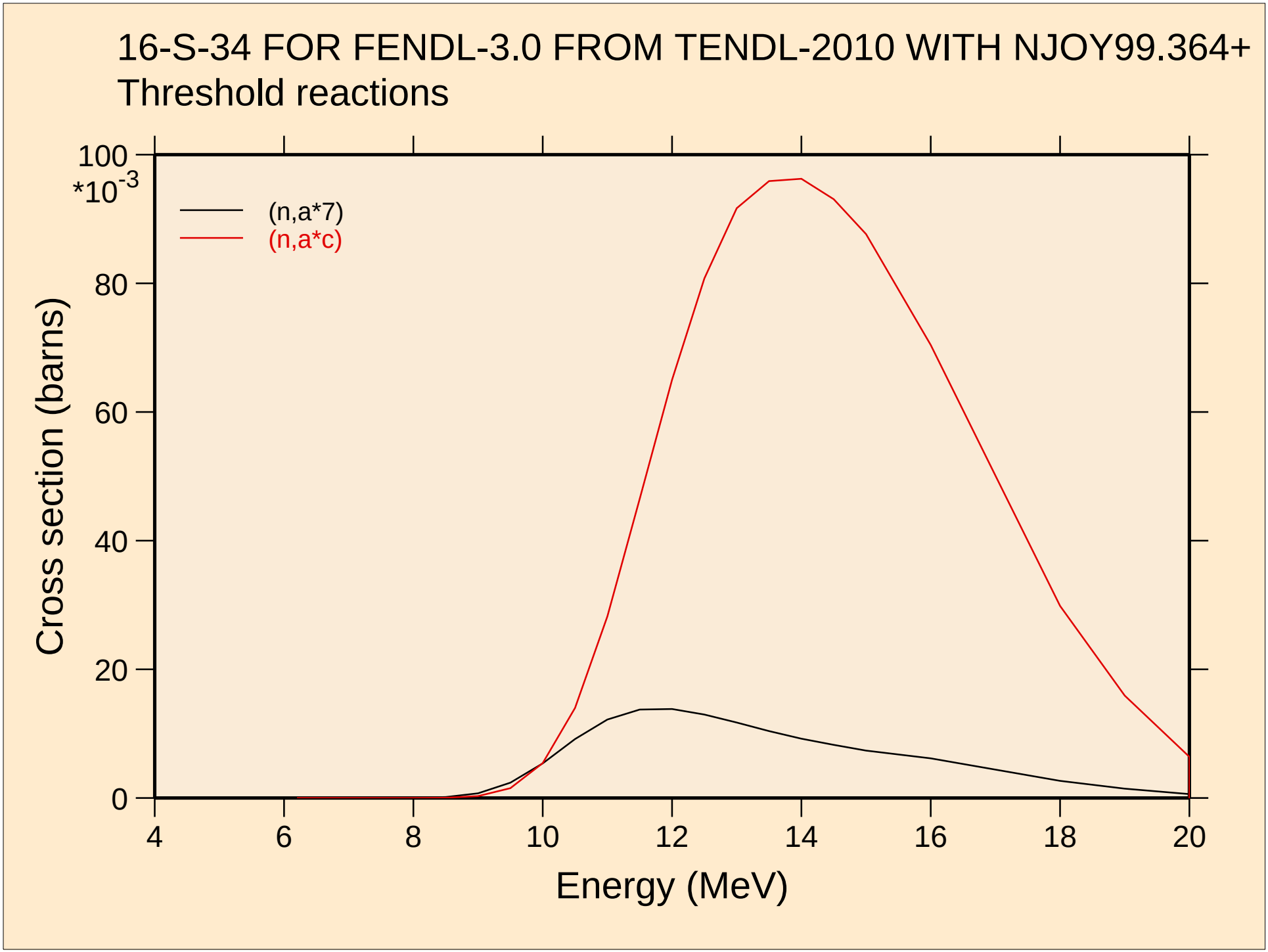

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Threshold reactions
800
*10-3
700
600
500
400
300
200
100
0
Cross section (barns)
(n,n*c)
(n,p)
(n,d)
(n,t)
(n,he3)
4
6
8
10
12
14
16
18
20
Energy (MeV)

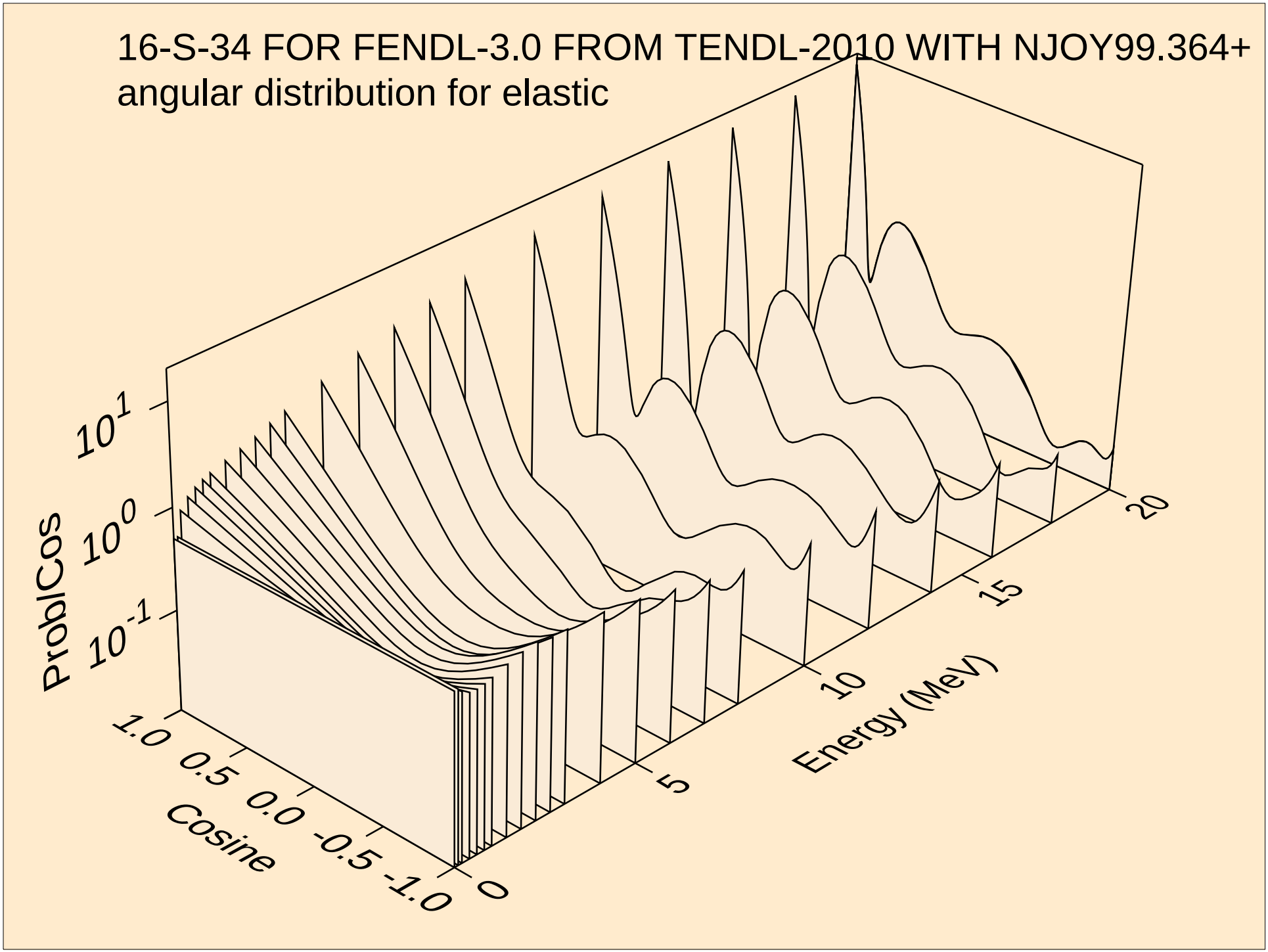

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Threshold reactions
*10-3
180
160
140
120
100
80
60
40
20
0
Cross section (barns)
(n,a)
(n,2a)
(n,2p)
(n,pa)
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

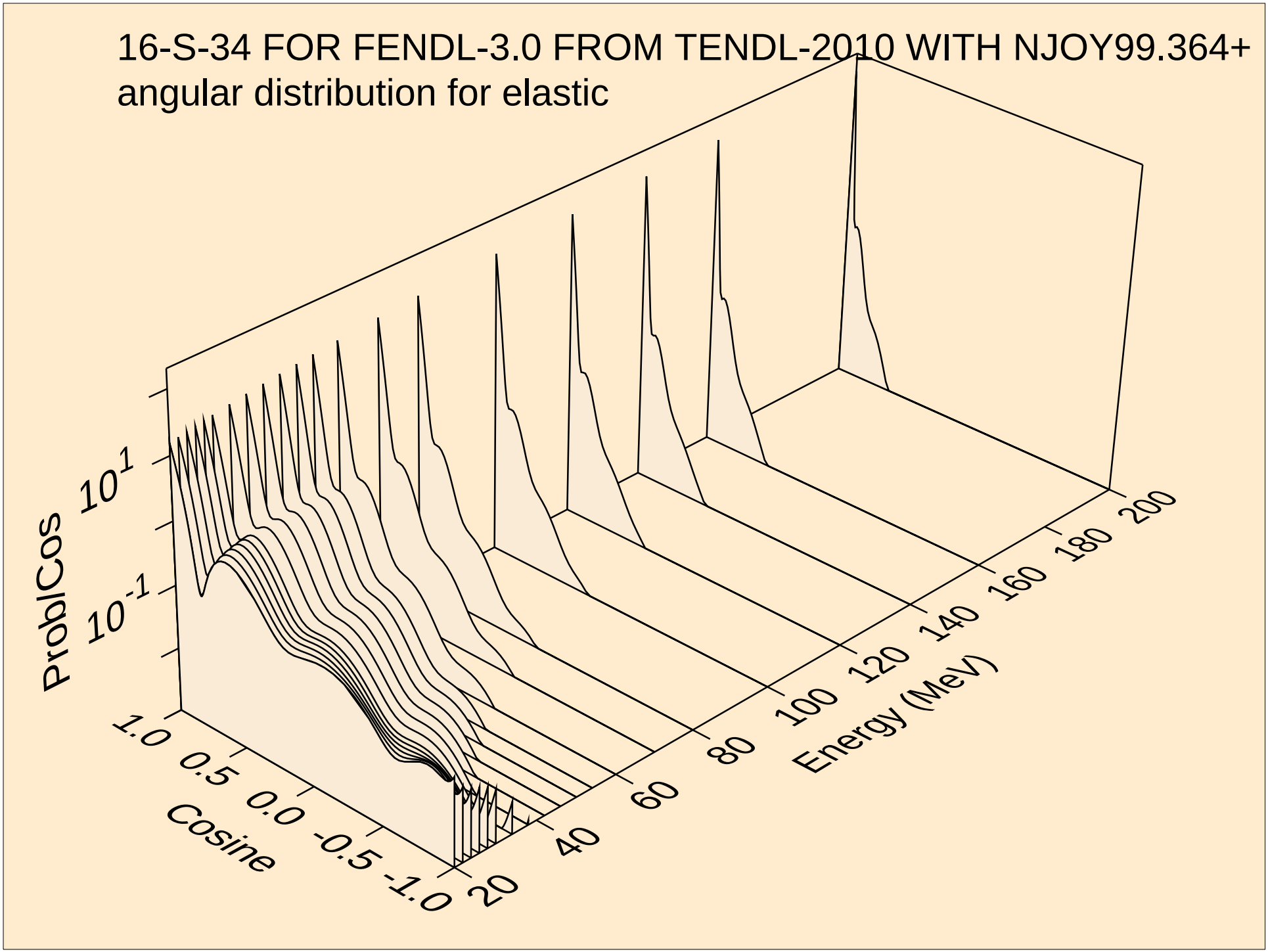

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Threshold reactions
Cross section (barns)
*10-3
700
600
500
400
300
200
100
0
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)
(n,xp)
(n,xd)
(n,xt)
(n,xhe3)
(n,xa)

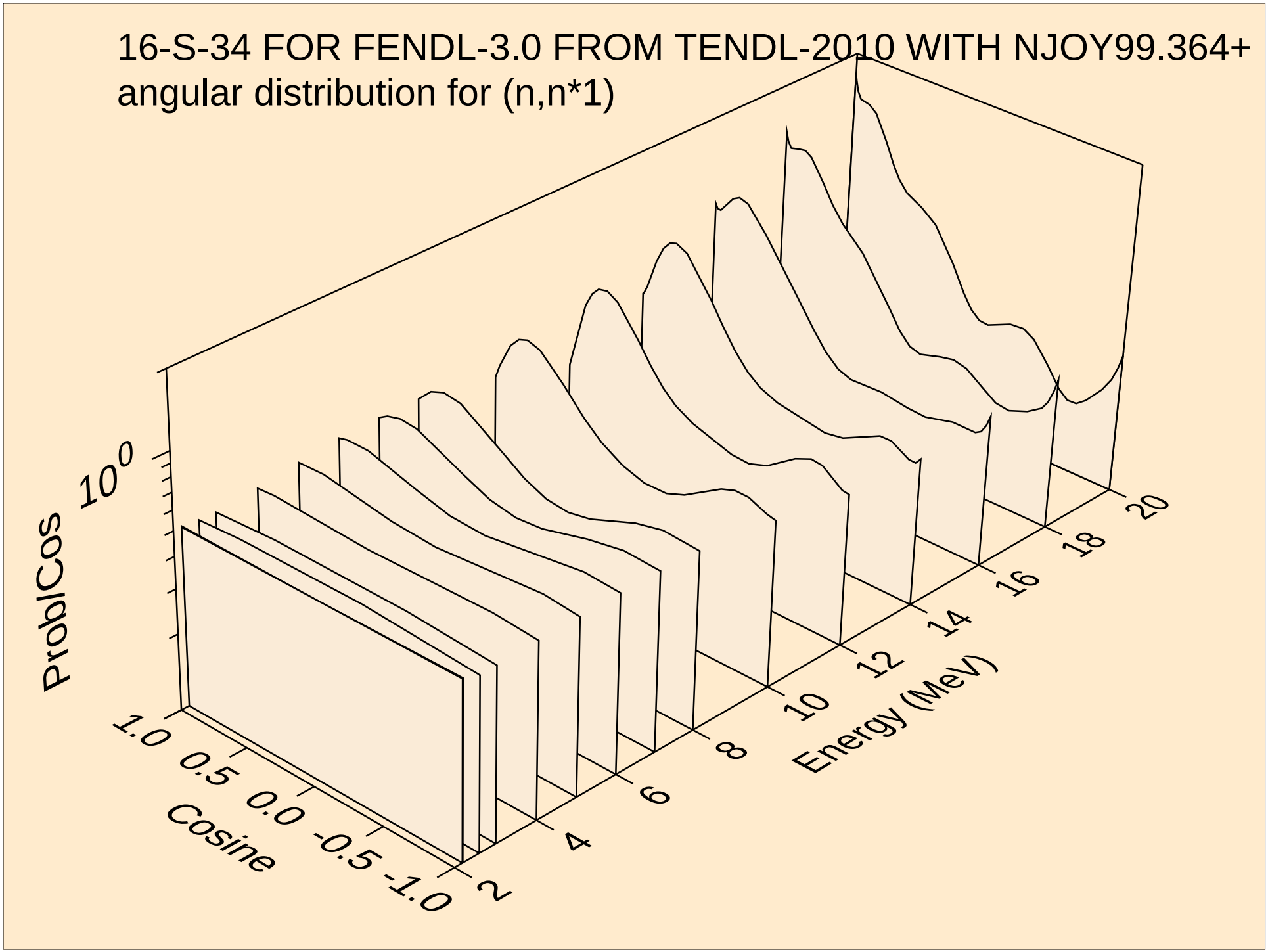

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Threshold reactions
100
*10-3
80
60
40
20
0
Cross section (barns)
(n,p*0)
(n,p*1)
(n,p*c)
(n,a*0)
(n,a*1)
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

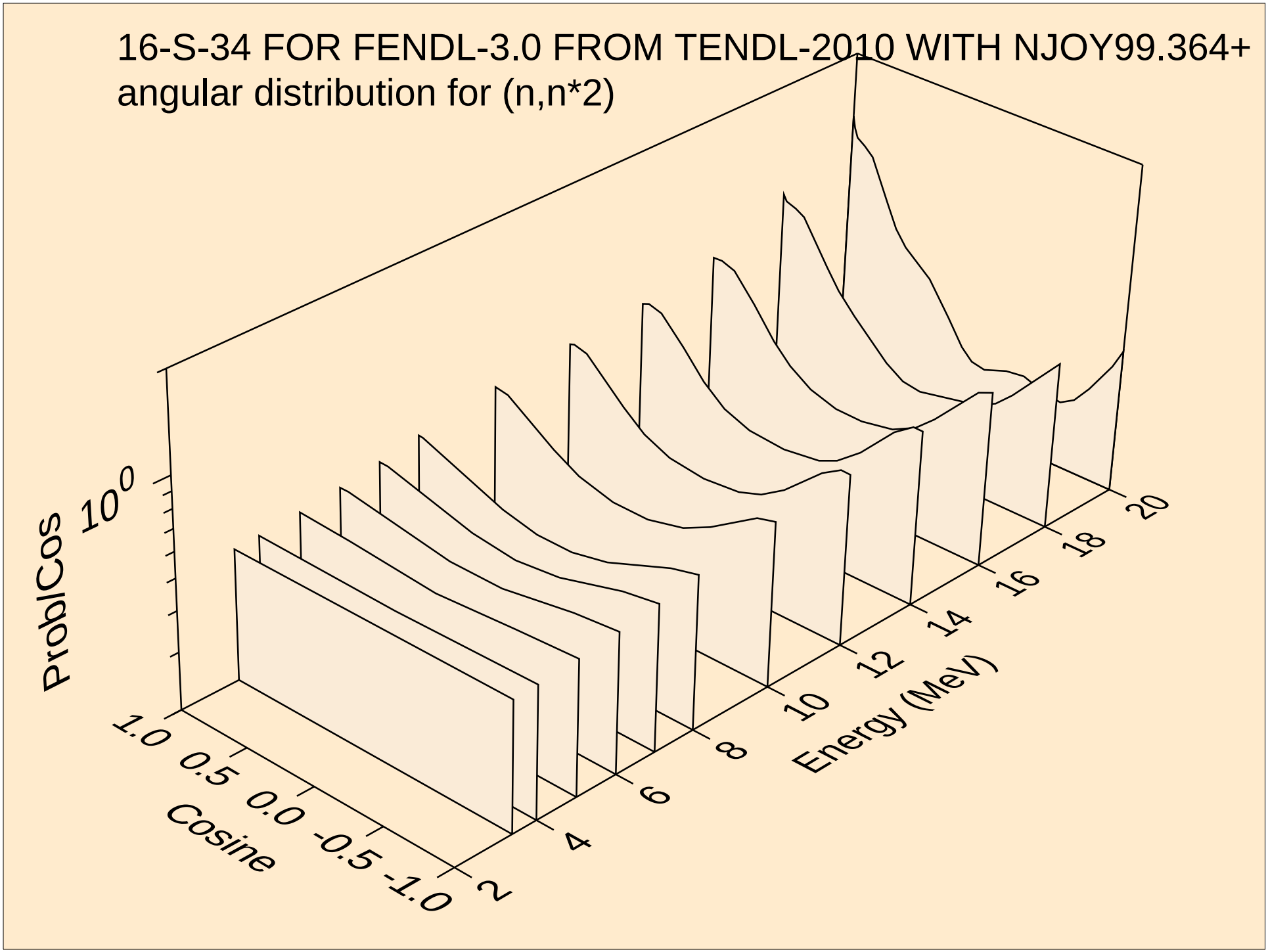

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Threshold reactions
*10-3
Cross section (barns)
Energy (MeV)
(n,a*2)
(n,a*3)
(n,a*4)
(n,a*5)
(n,a*6)
0
5
10
15
20
25
30
35
40
2
4
6
8
10
12
14
16
18
20

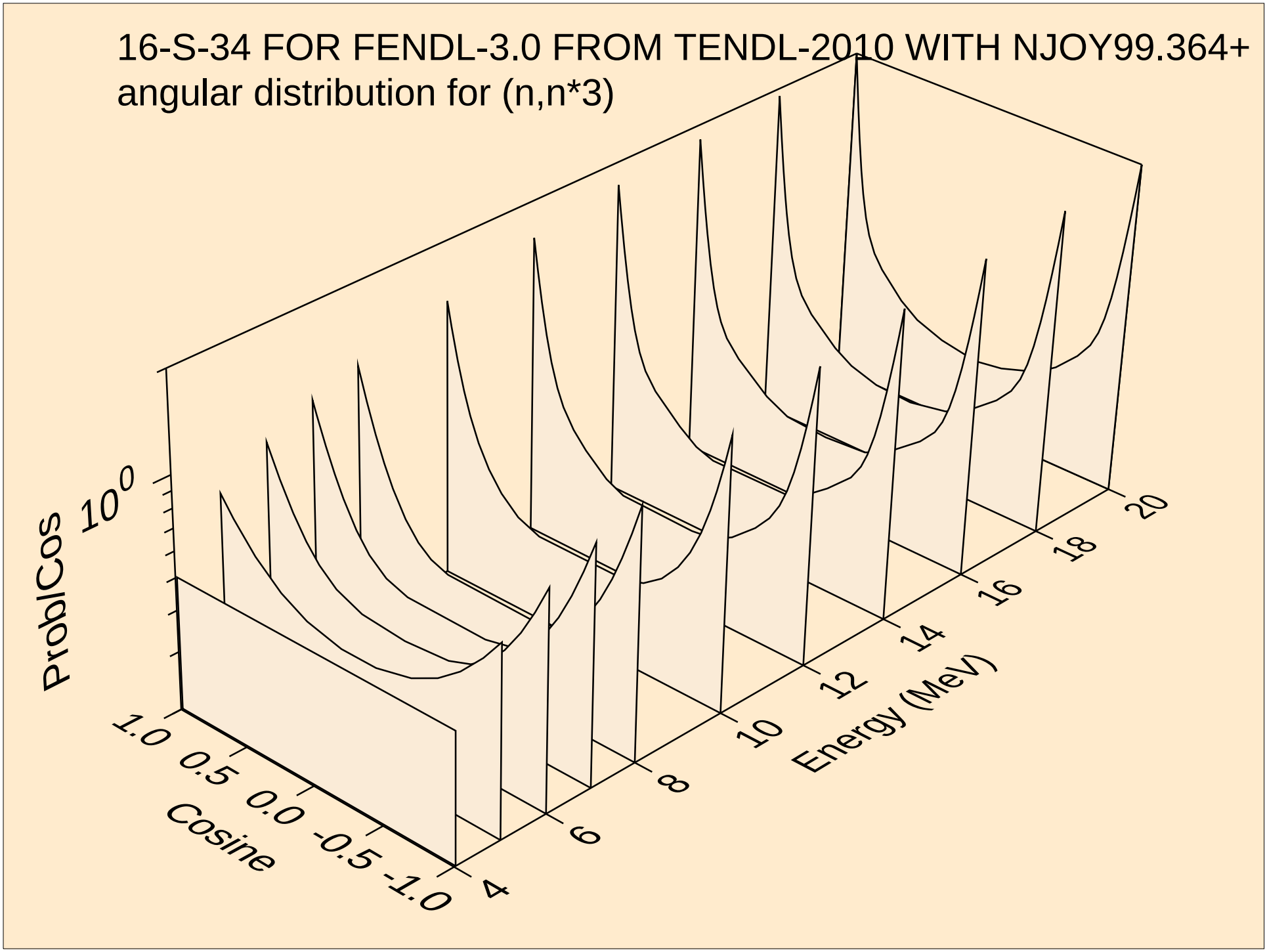

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Threshold reactions
100
*10-3
80
60
40
20
0
(n,a*7)
(n,a*c)
Cross section (barns)
4
6
8
10
12
14
16
18
20
Energy (MeV)

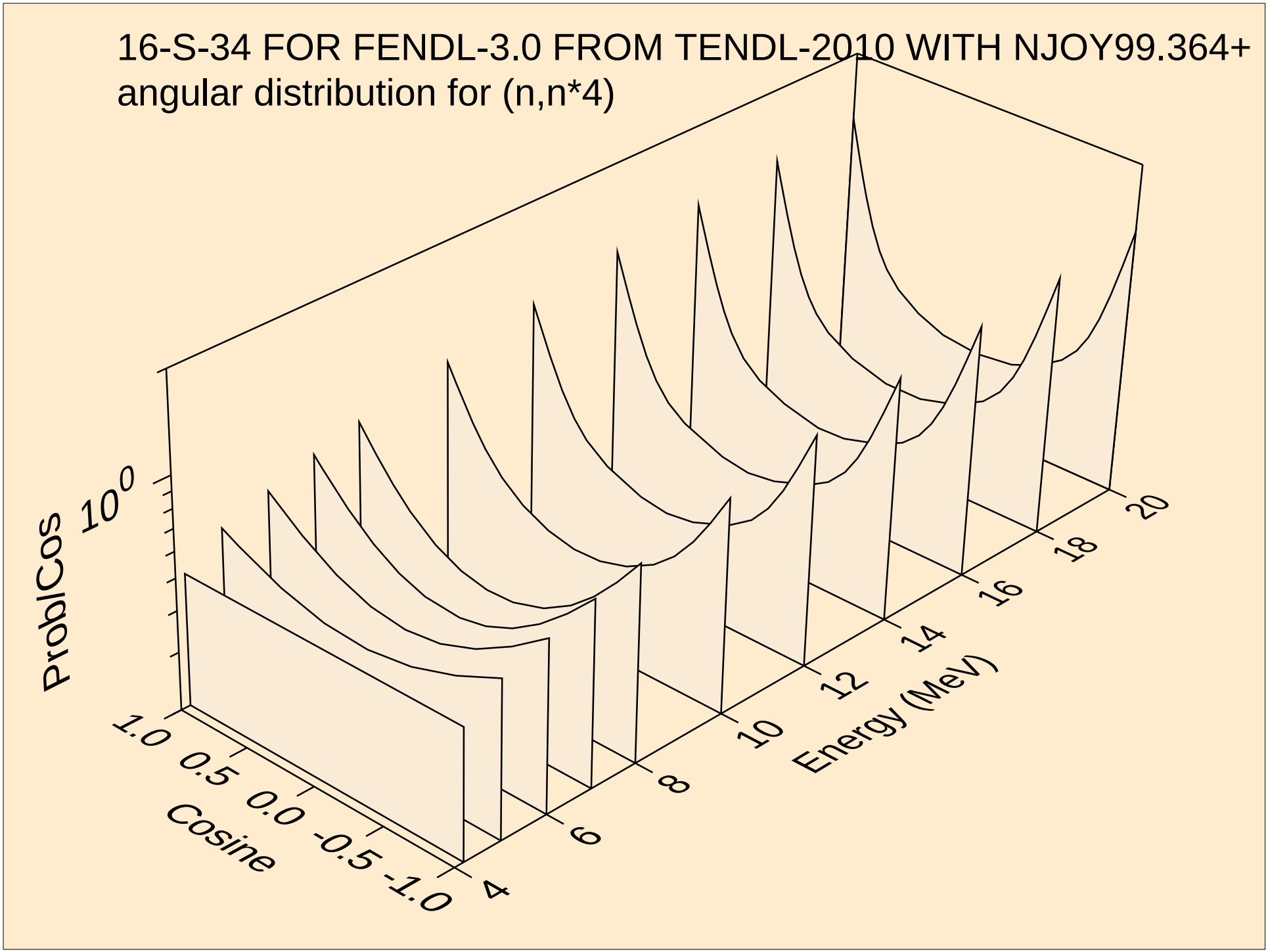

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for elastic
ProbICos
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

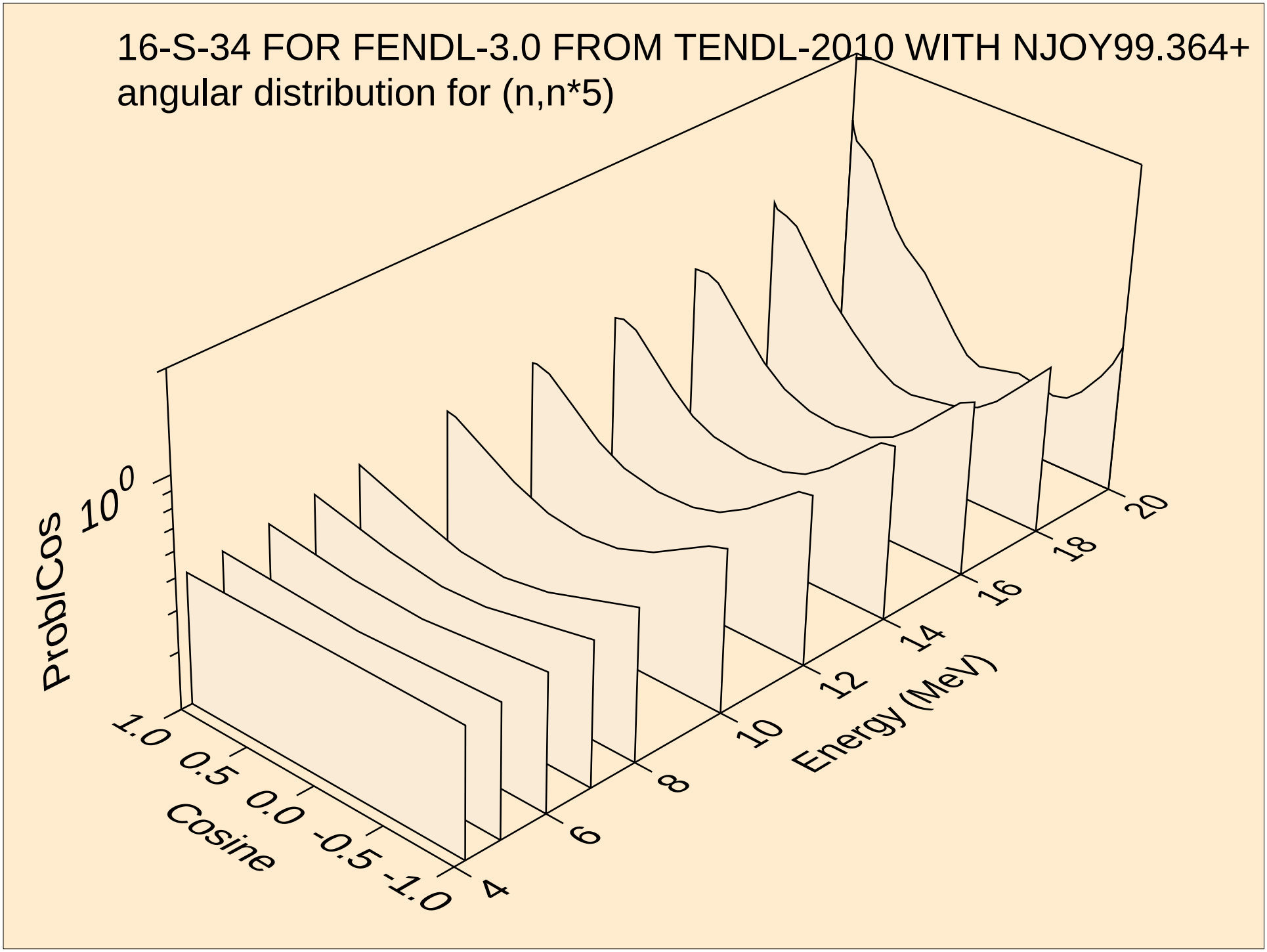

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

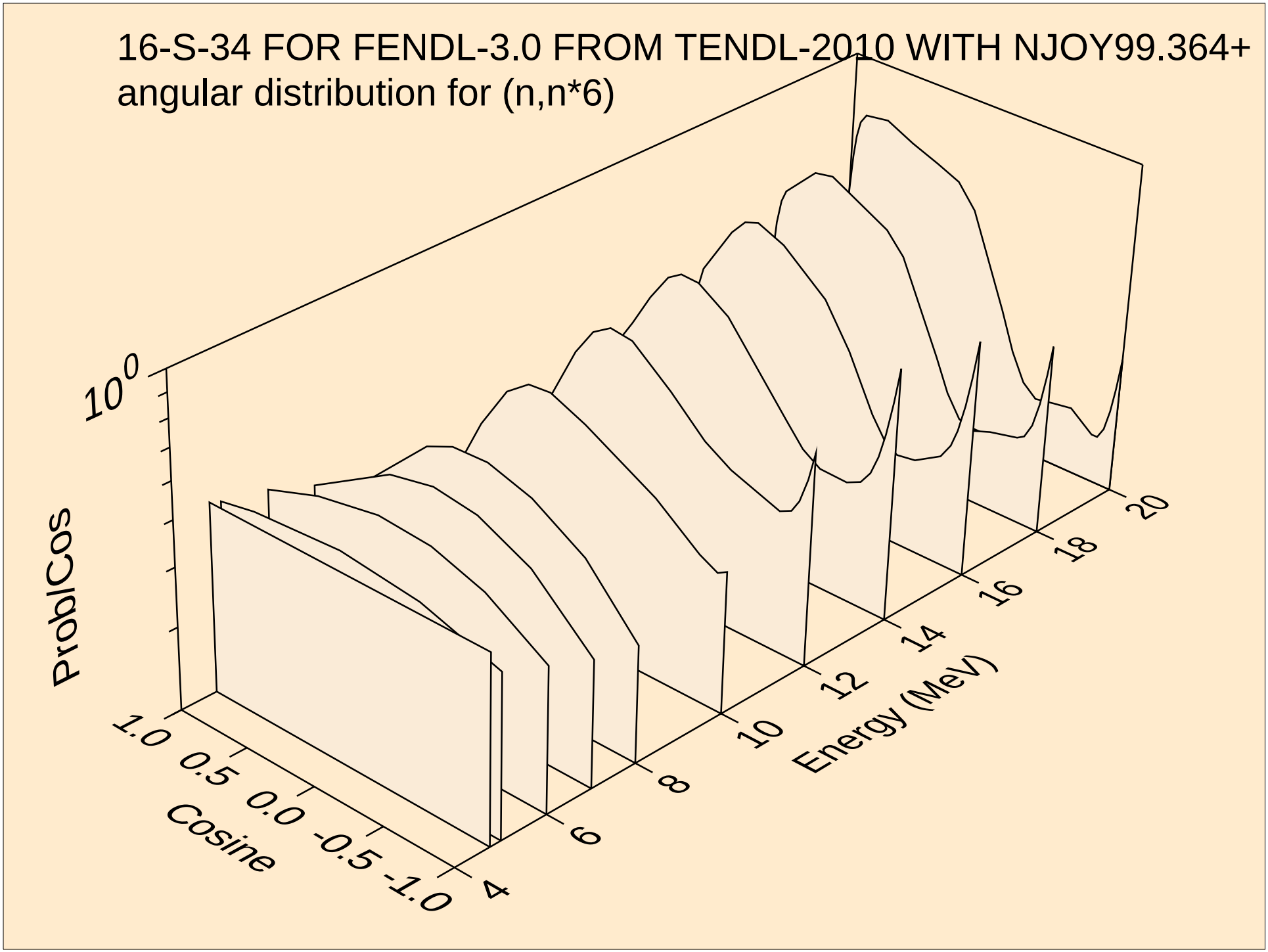

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*1)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

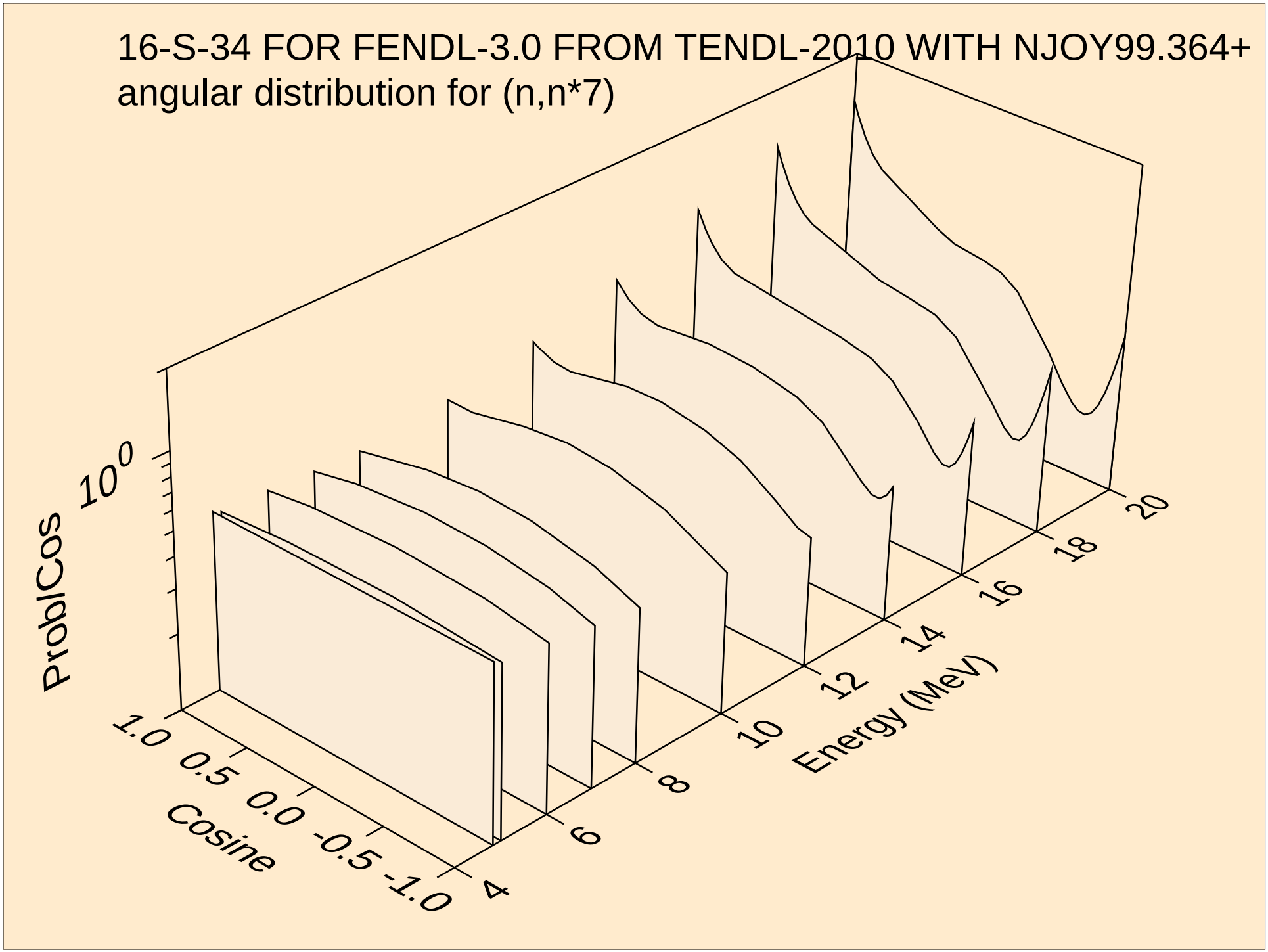

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*2)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

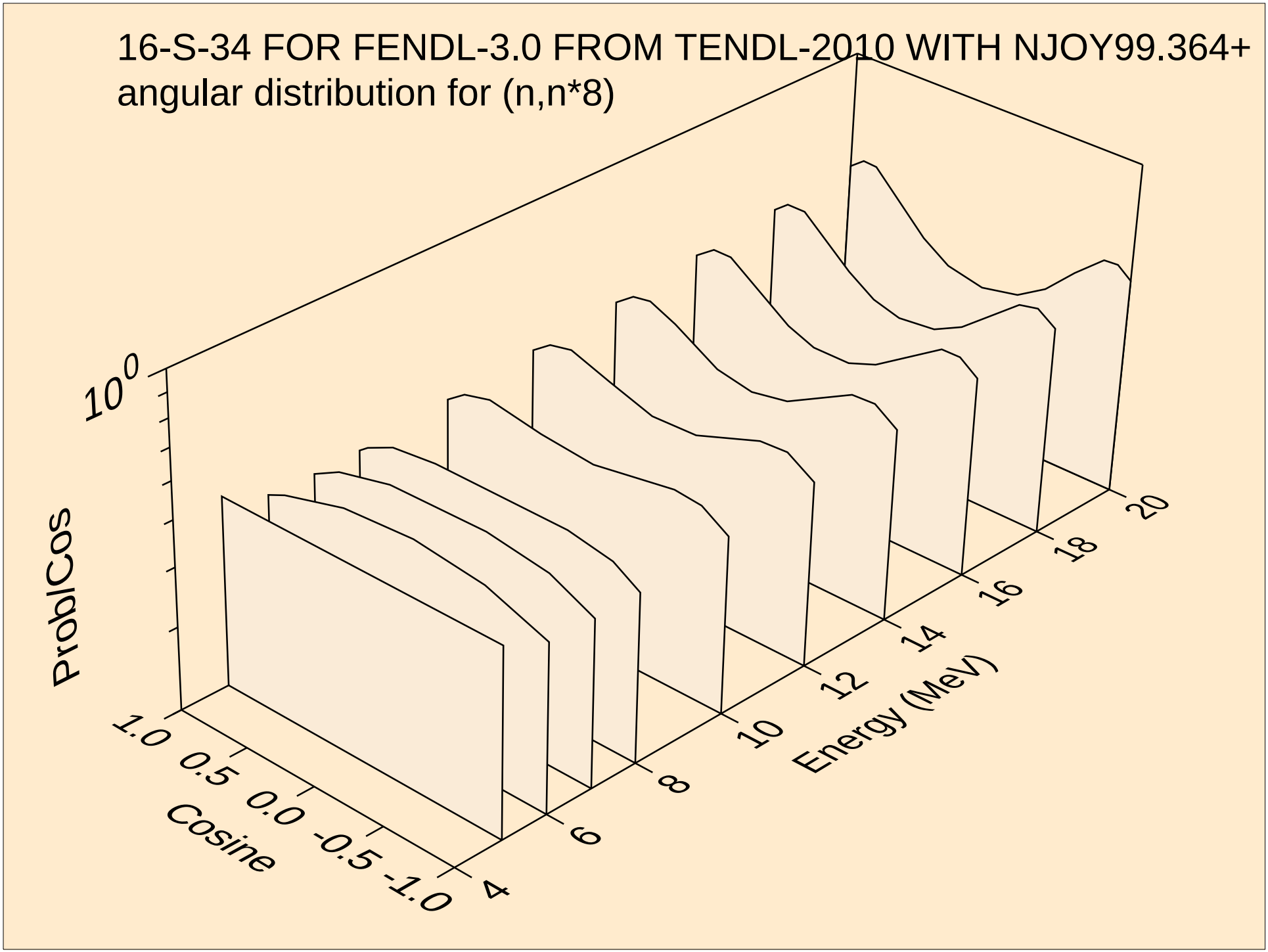

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*3)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

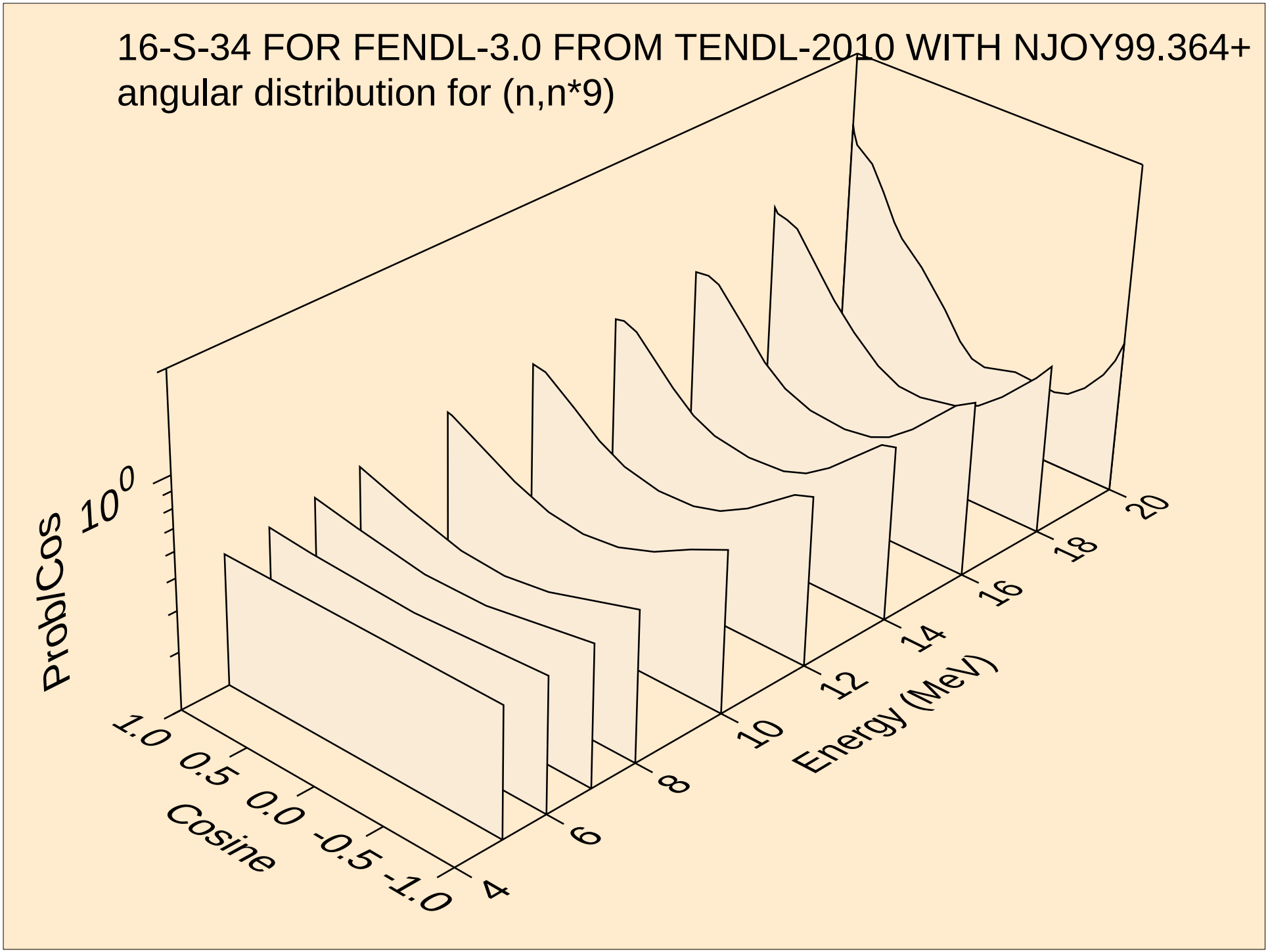

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*4)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

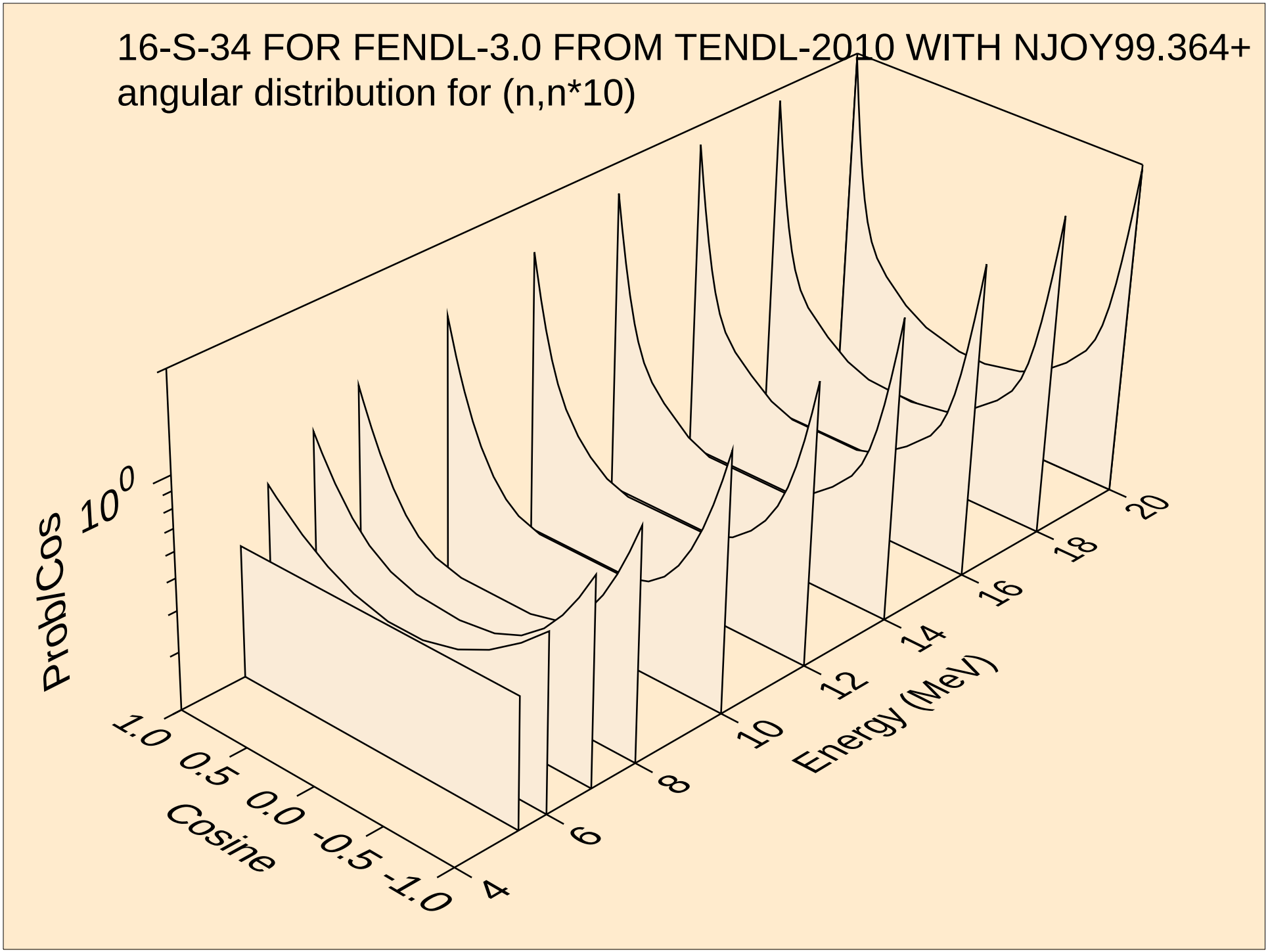

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*5)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

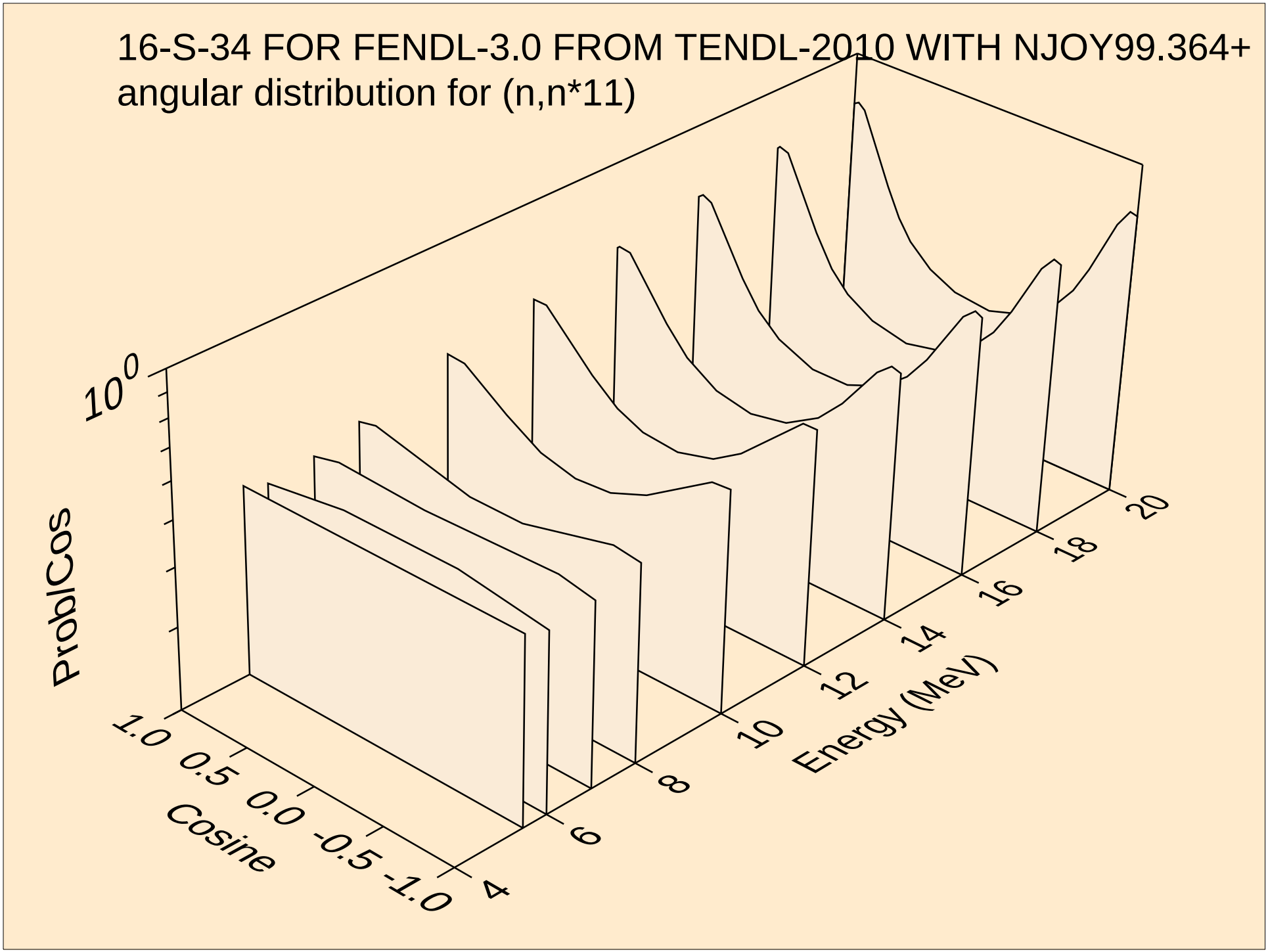

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*6)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

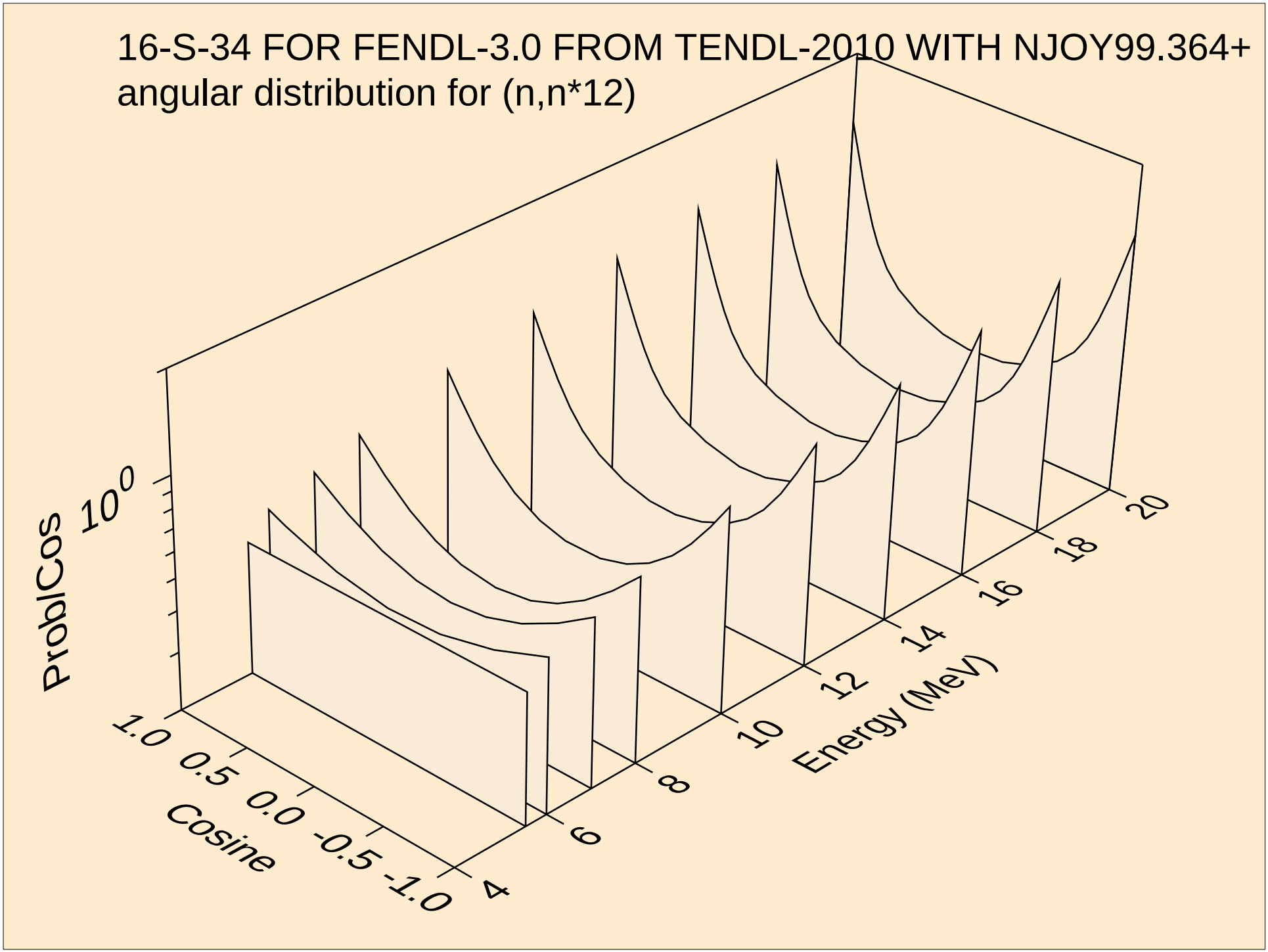

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*7)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

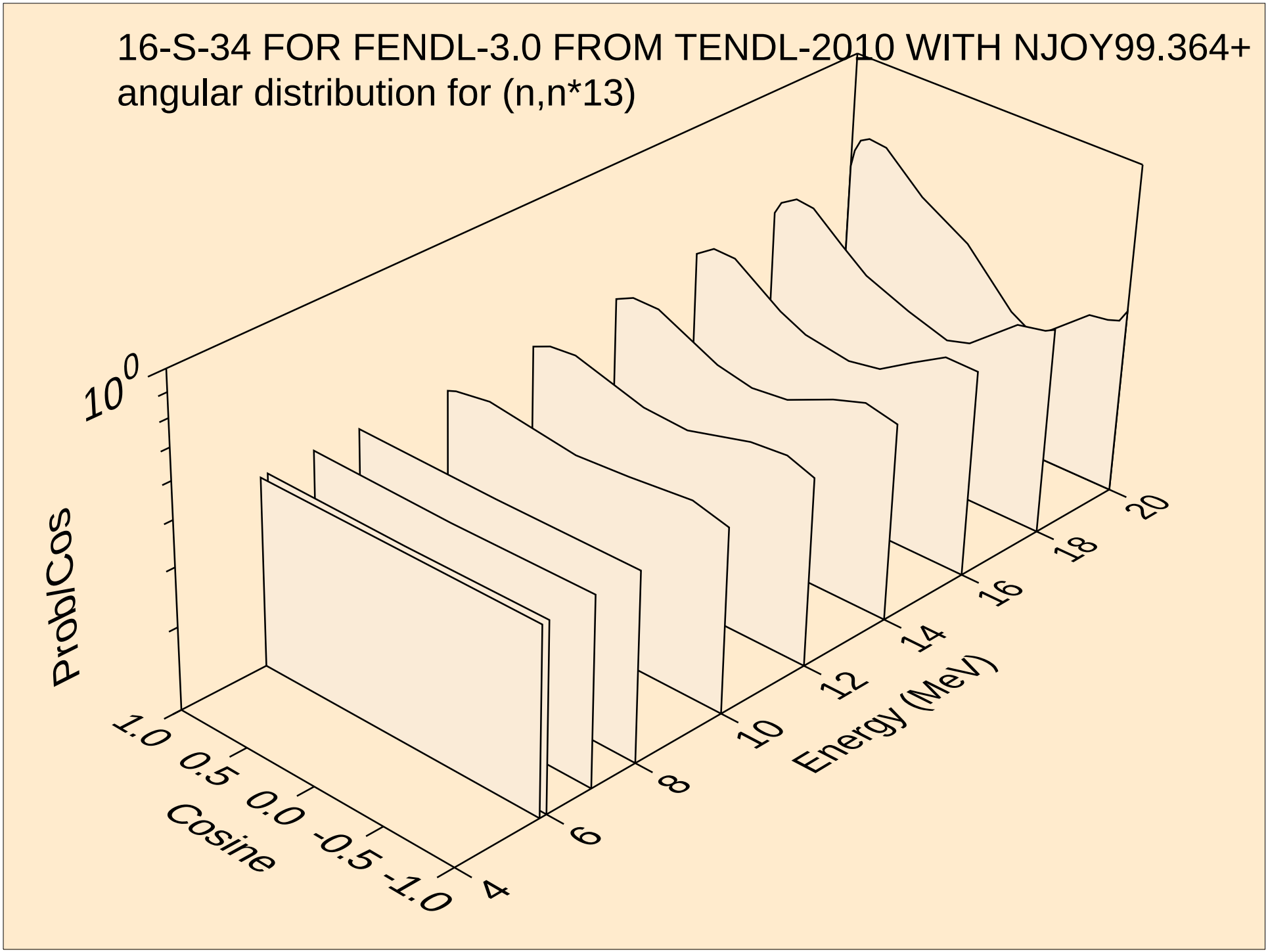

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*8)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

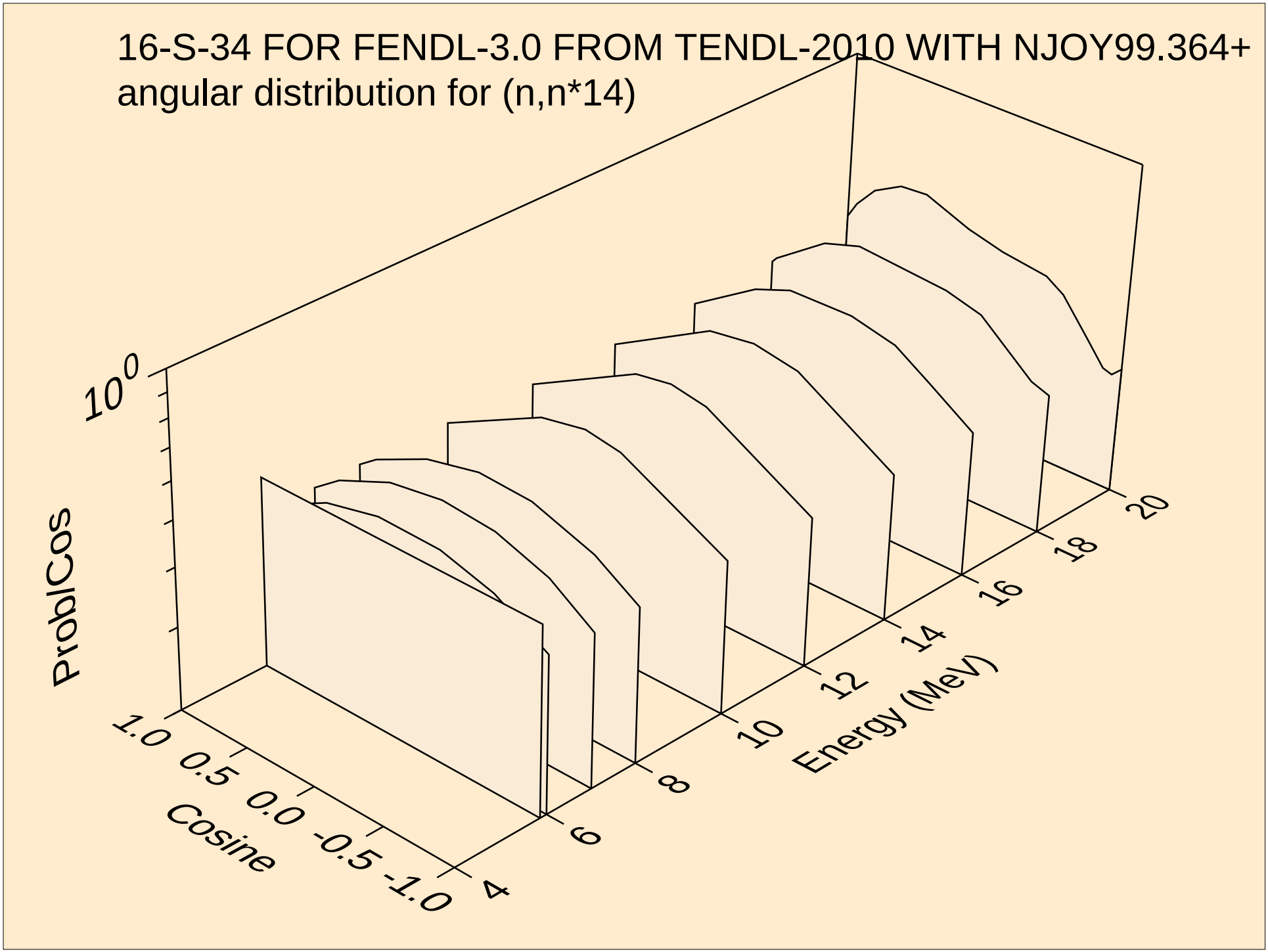

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*9)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

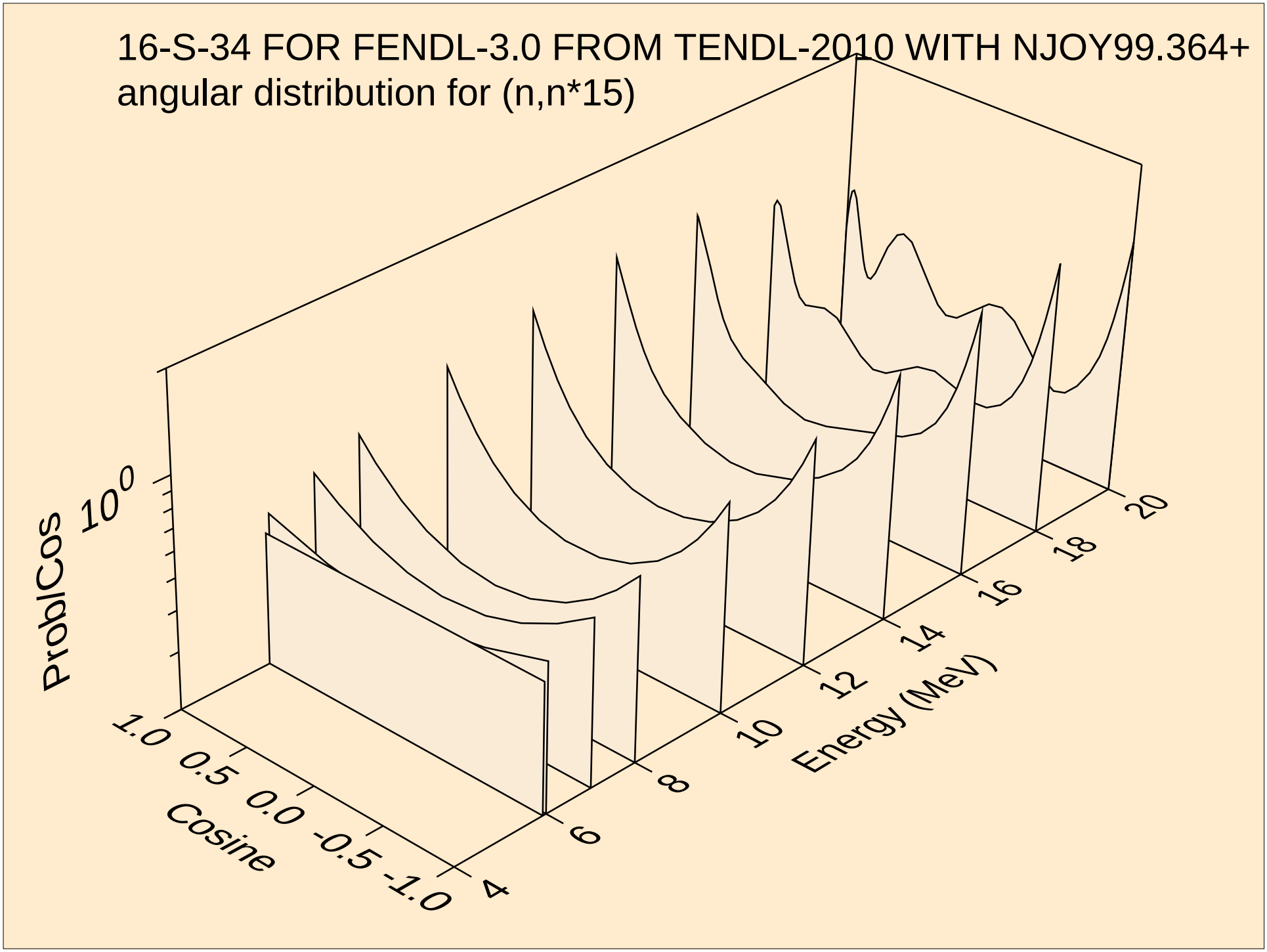

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*10)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

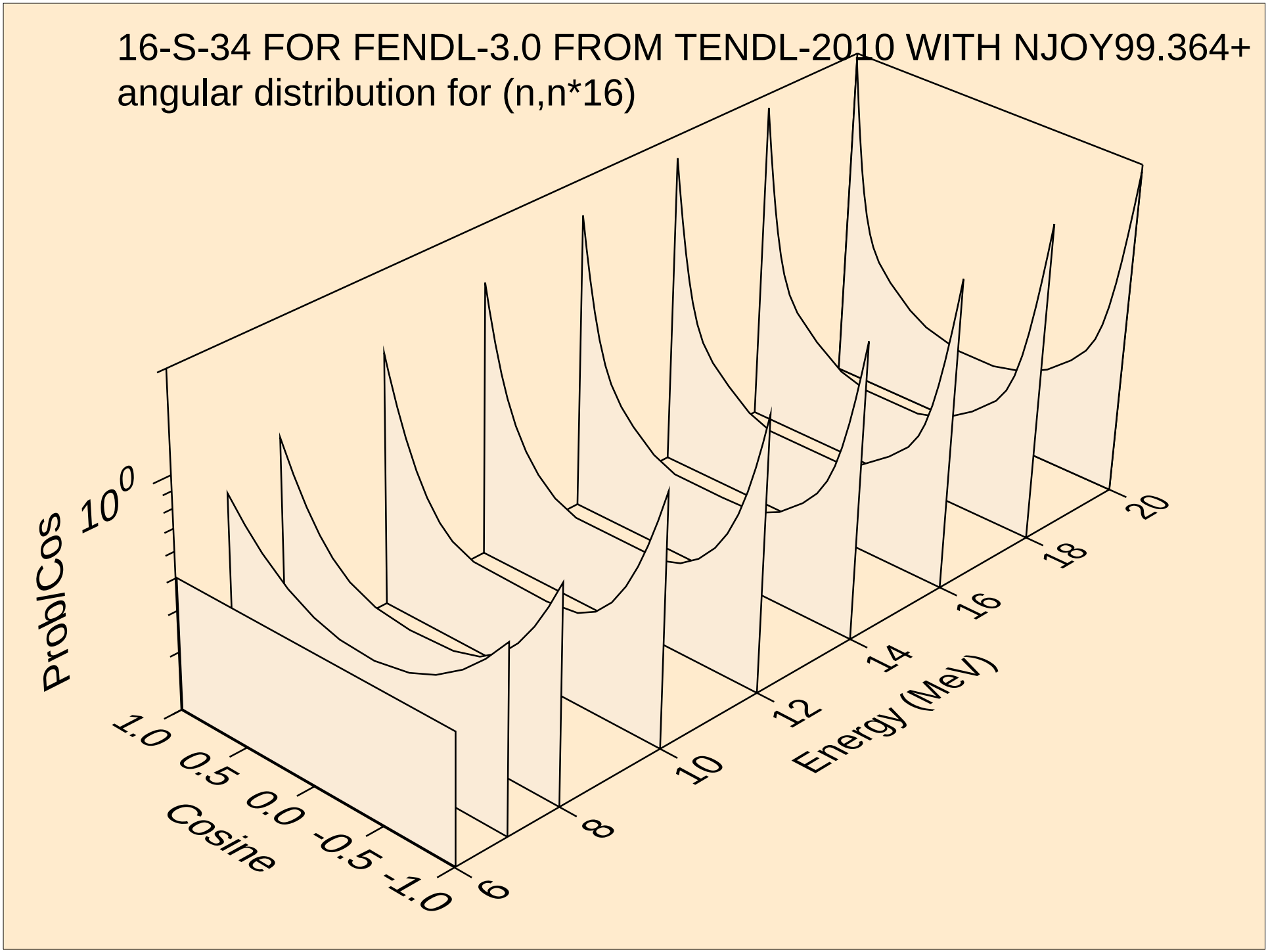

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*11)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

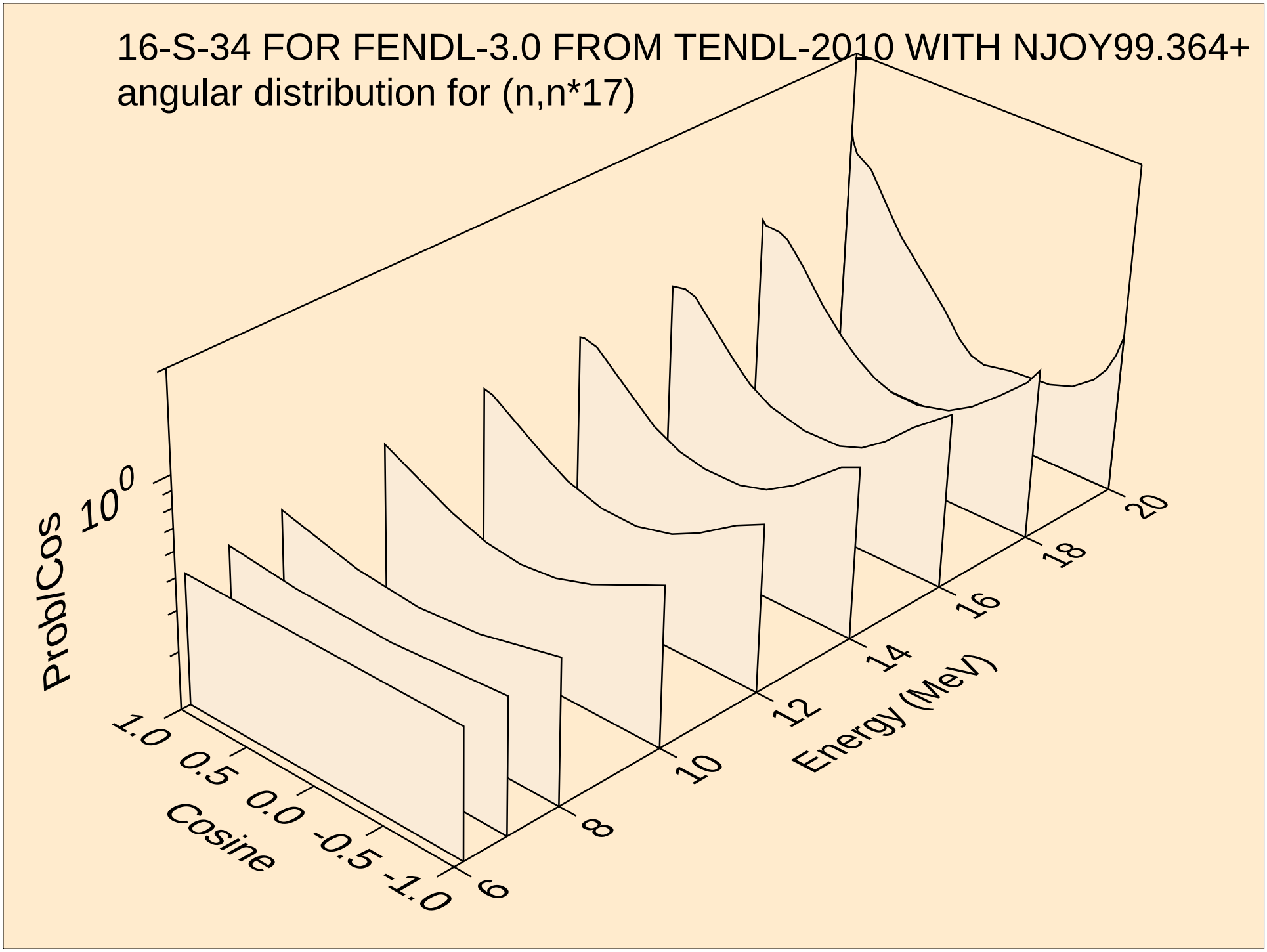

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*12)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

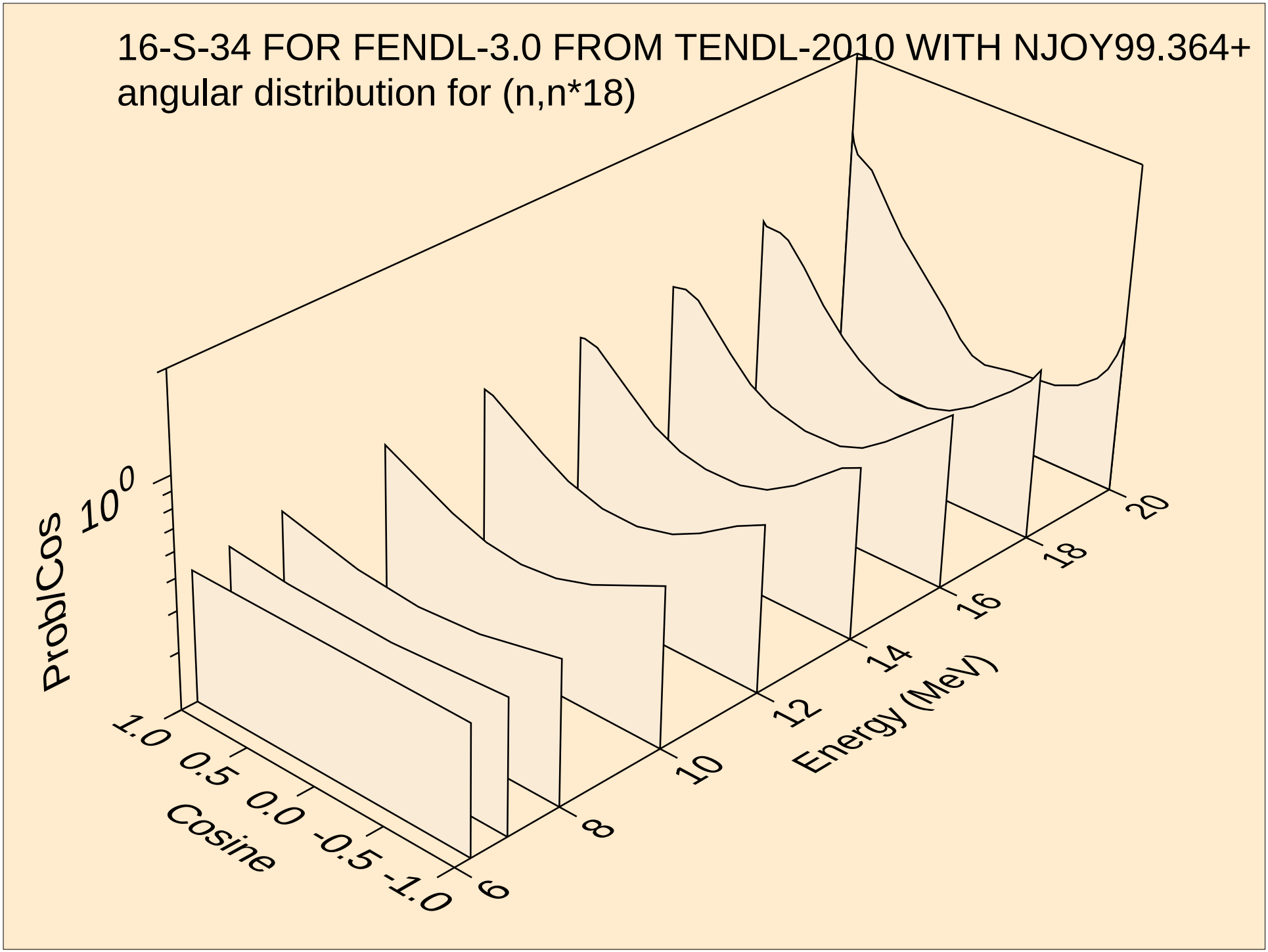

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*13)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

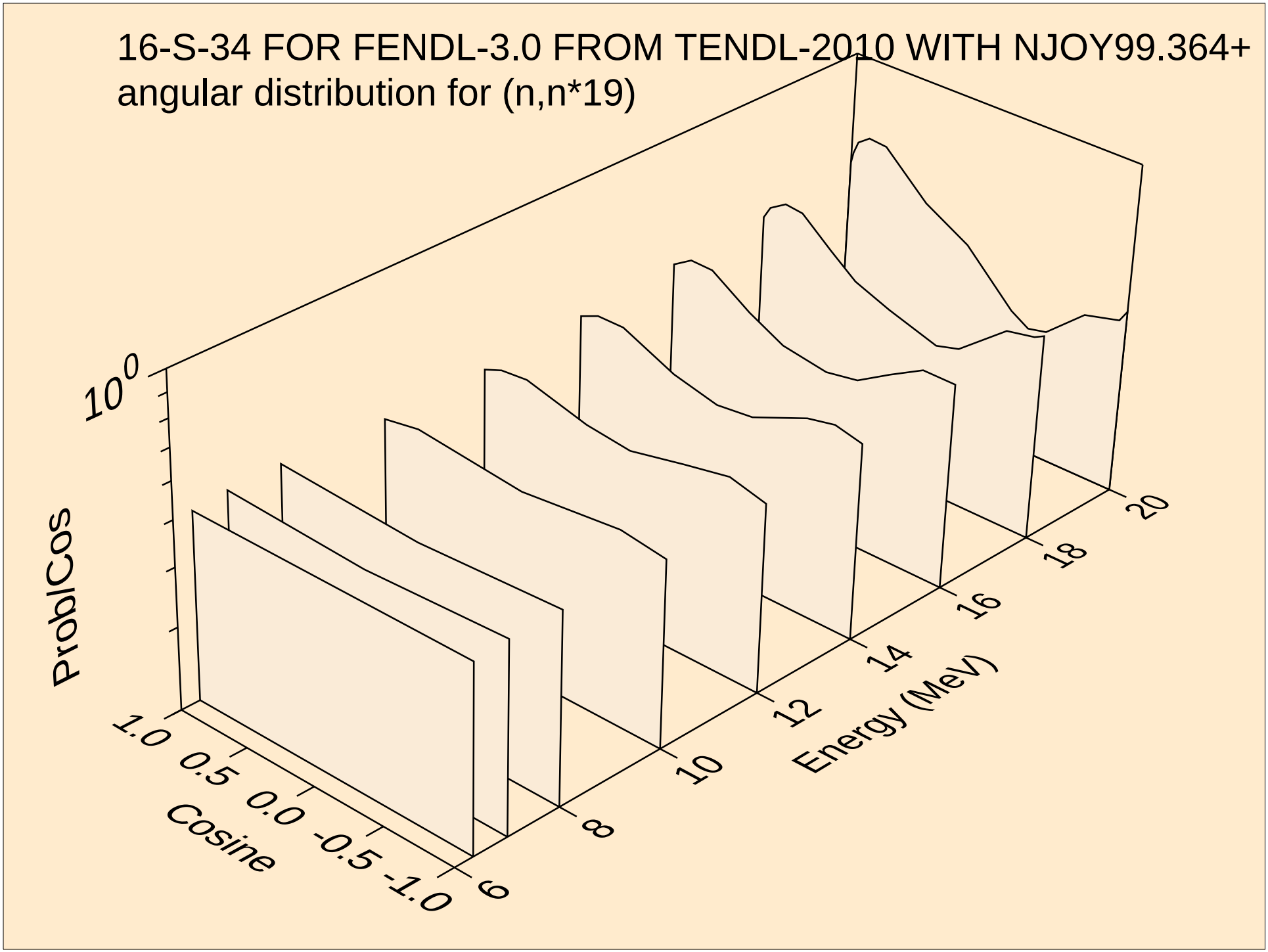

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*14)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

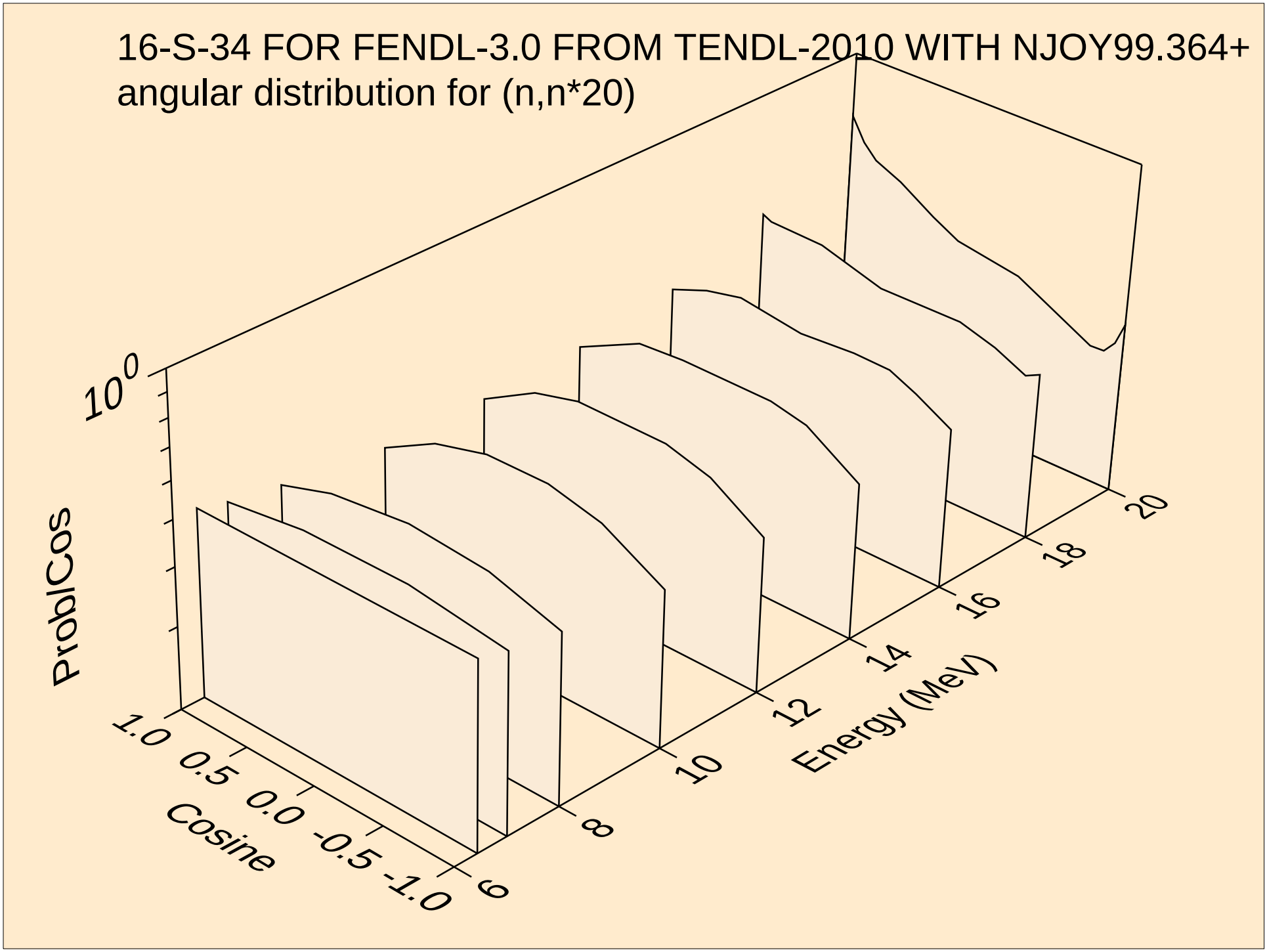

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*15)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

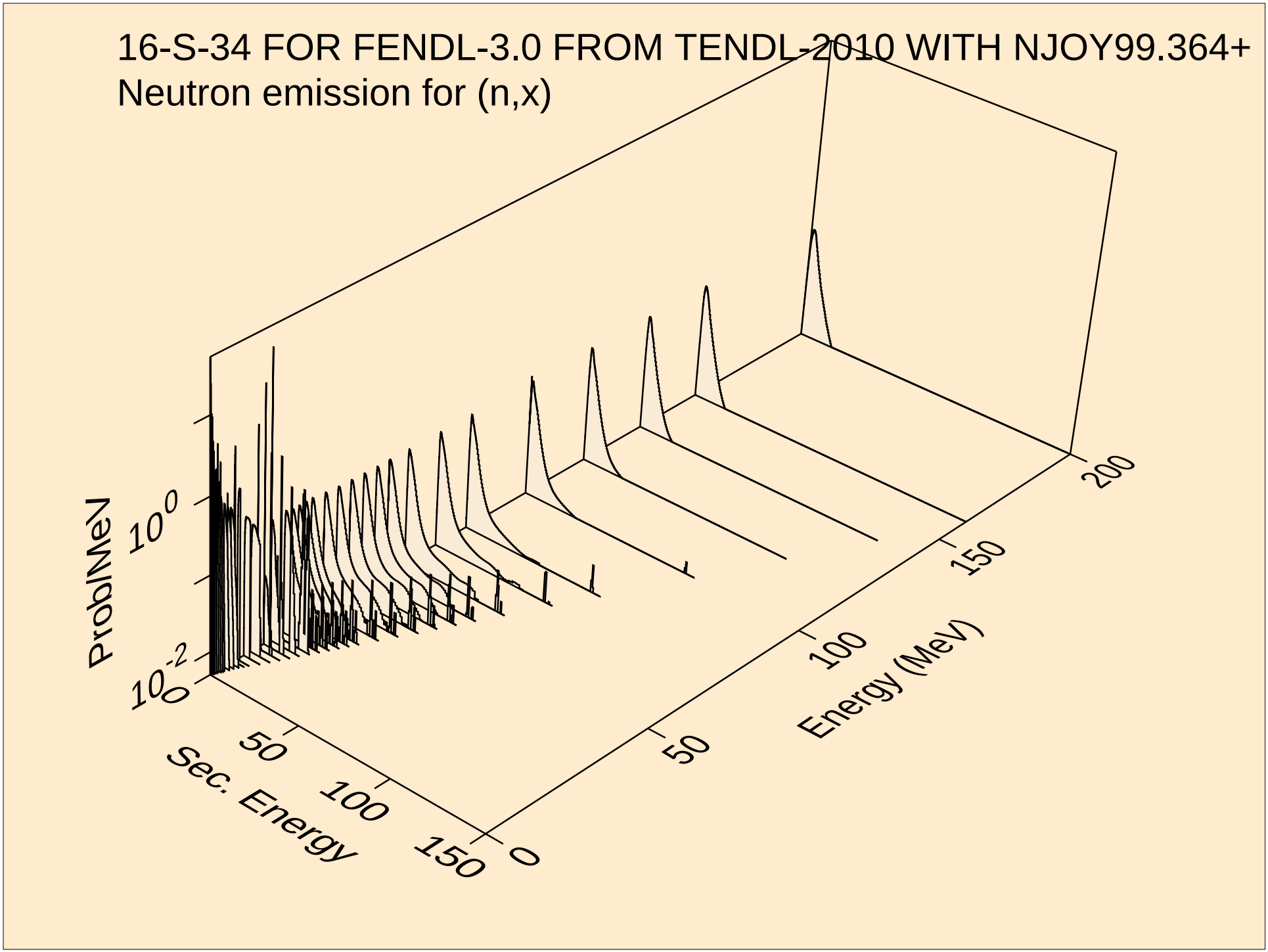

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*16)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

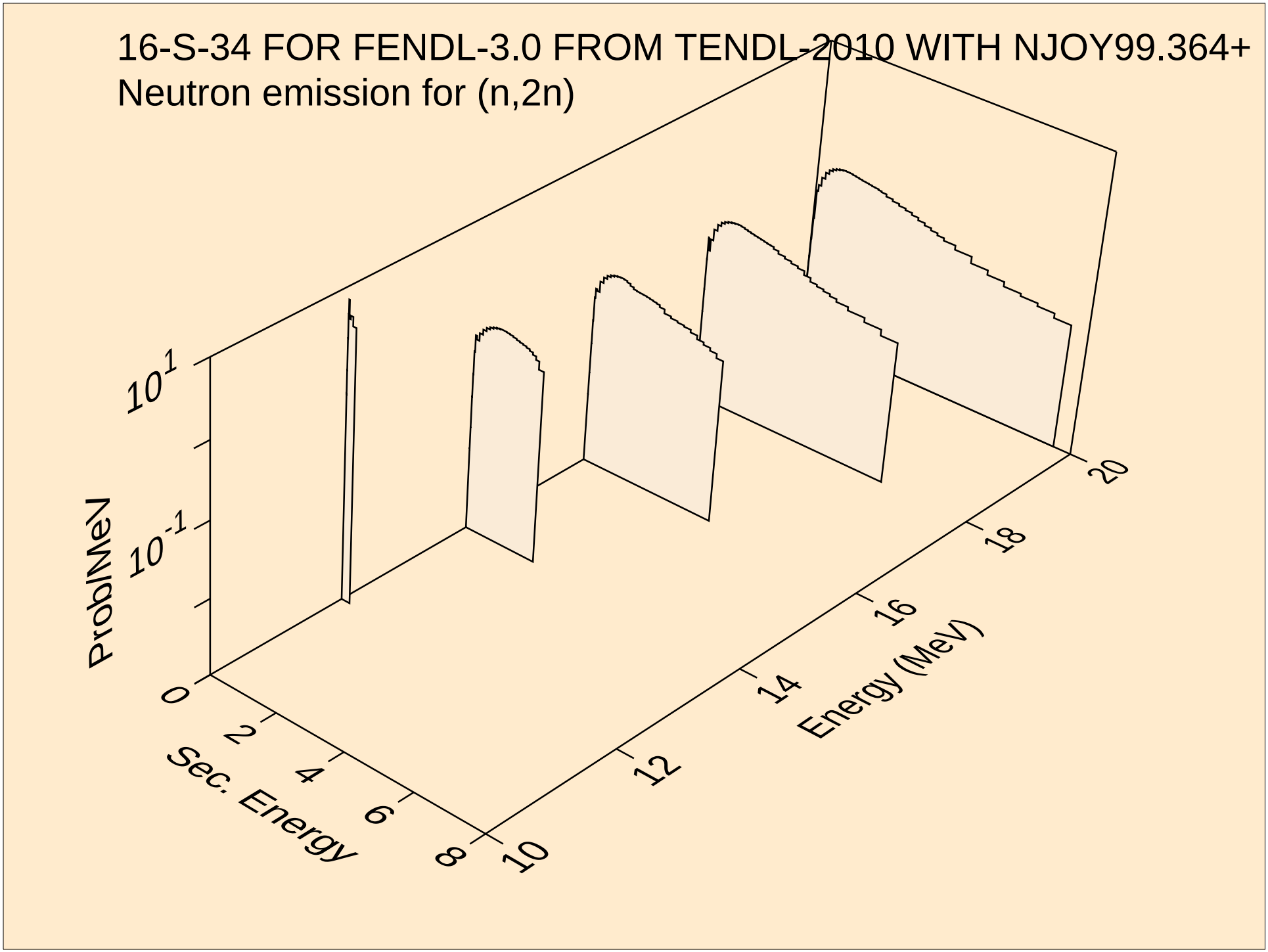

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*17)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

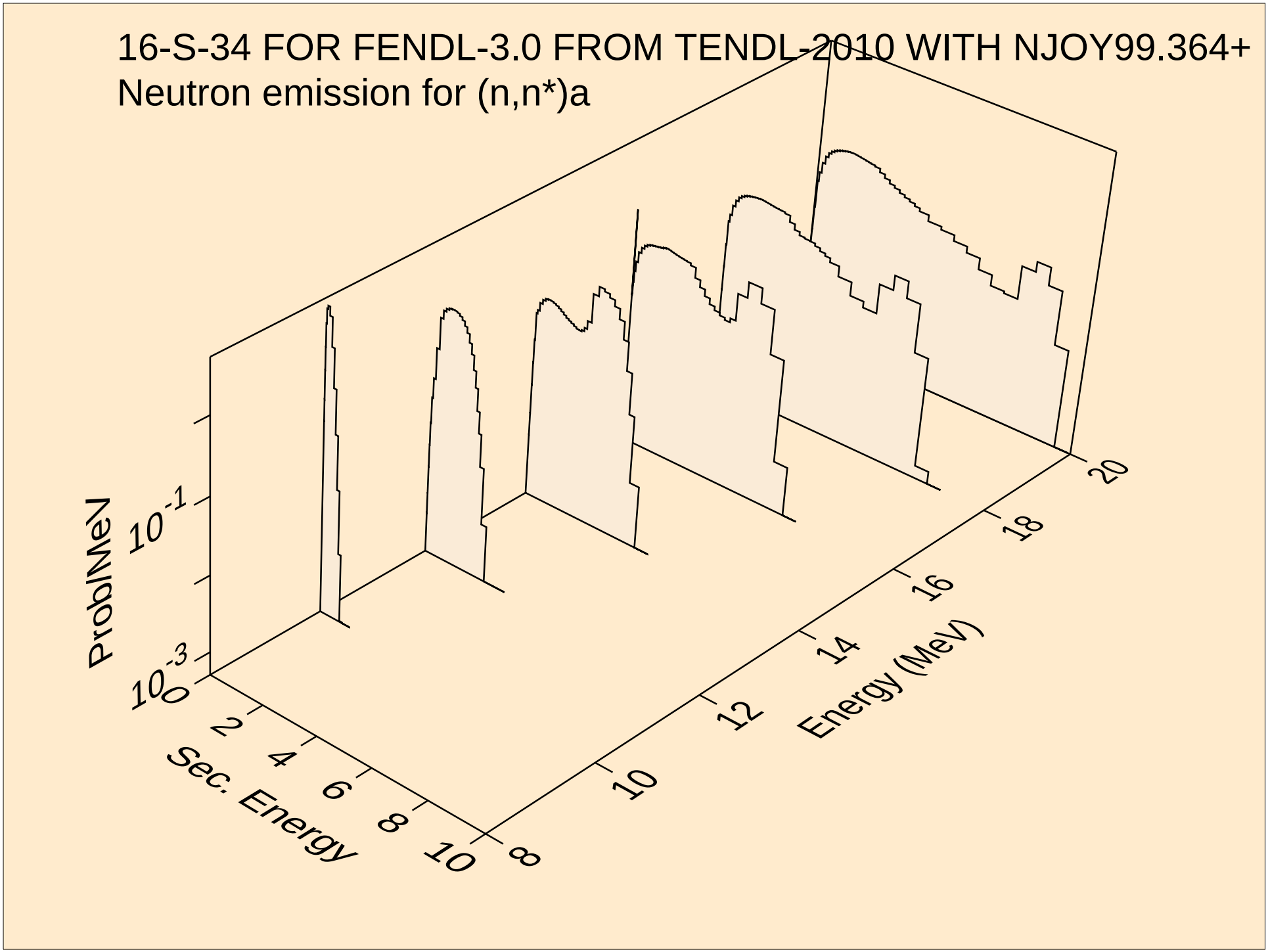

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*18)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

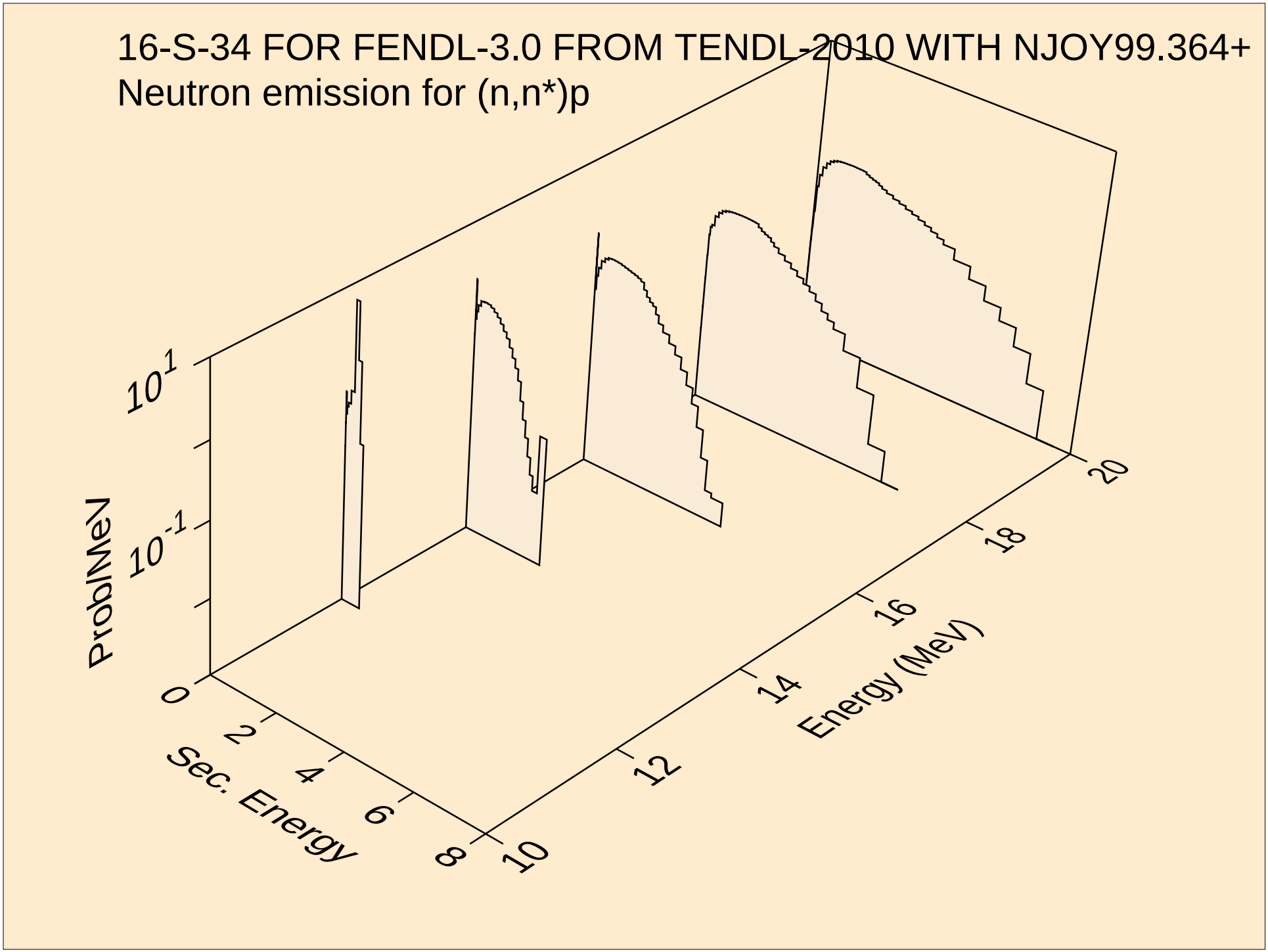

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*19)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

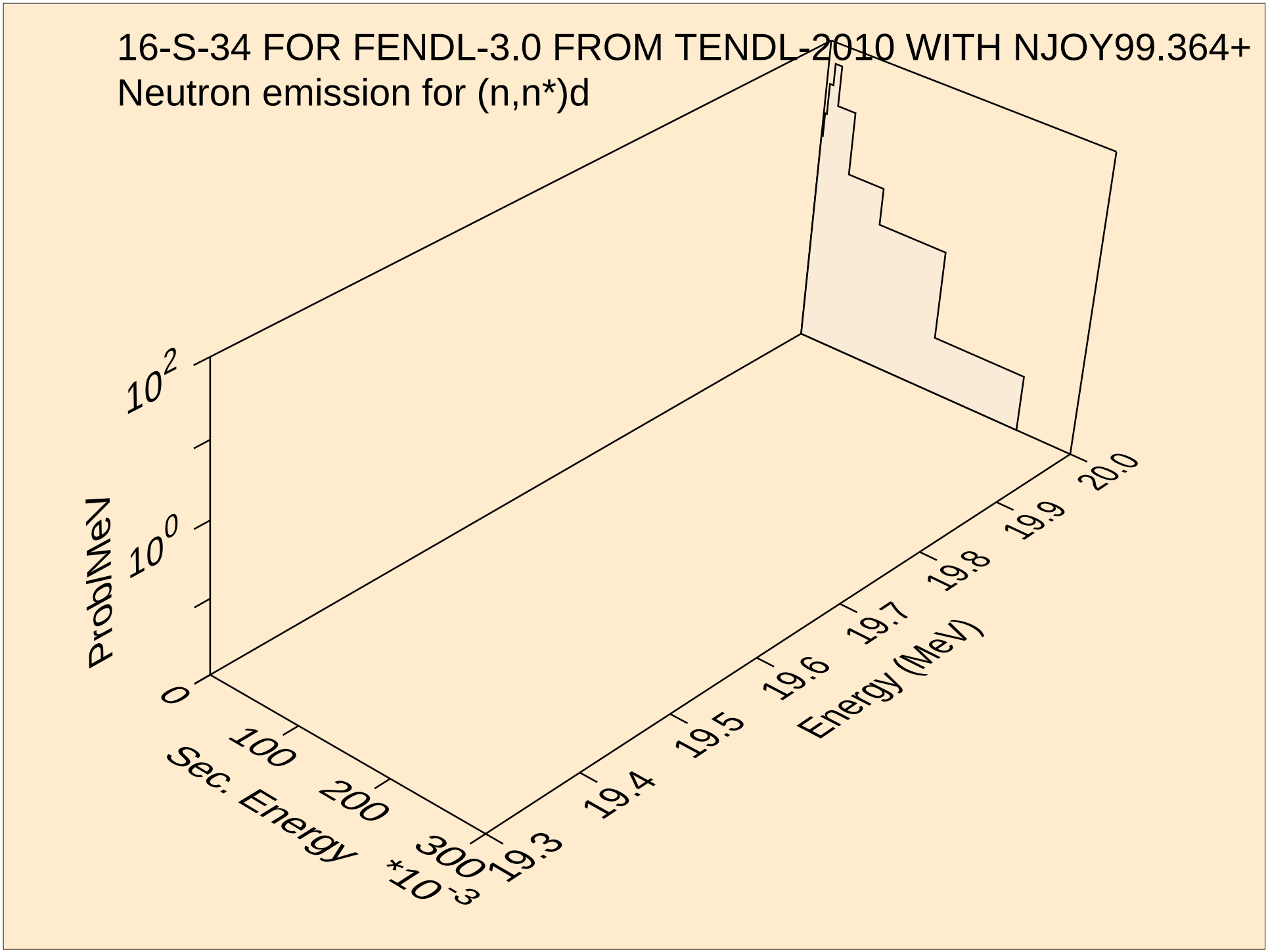

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,n*20)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

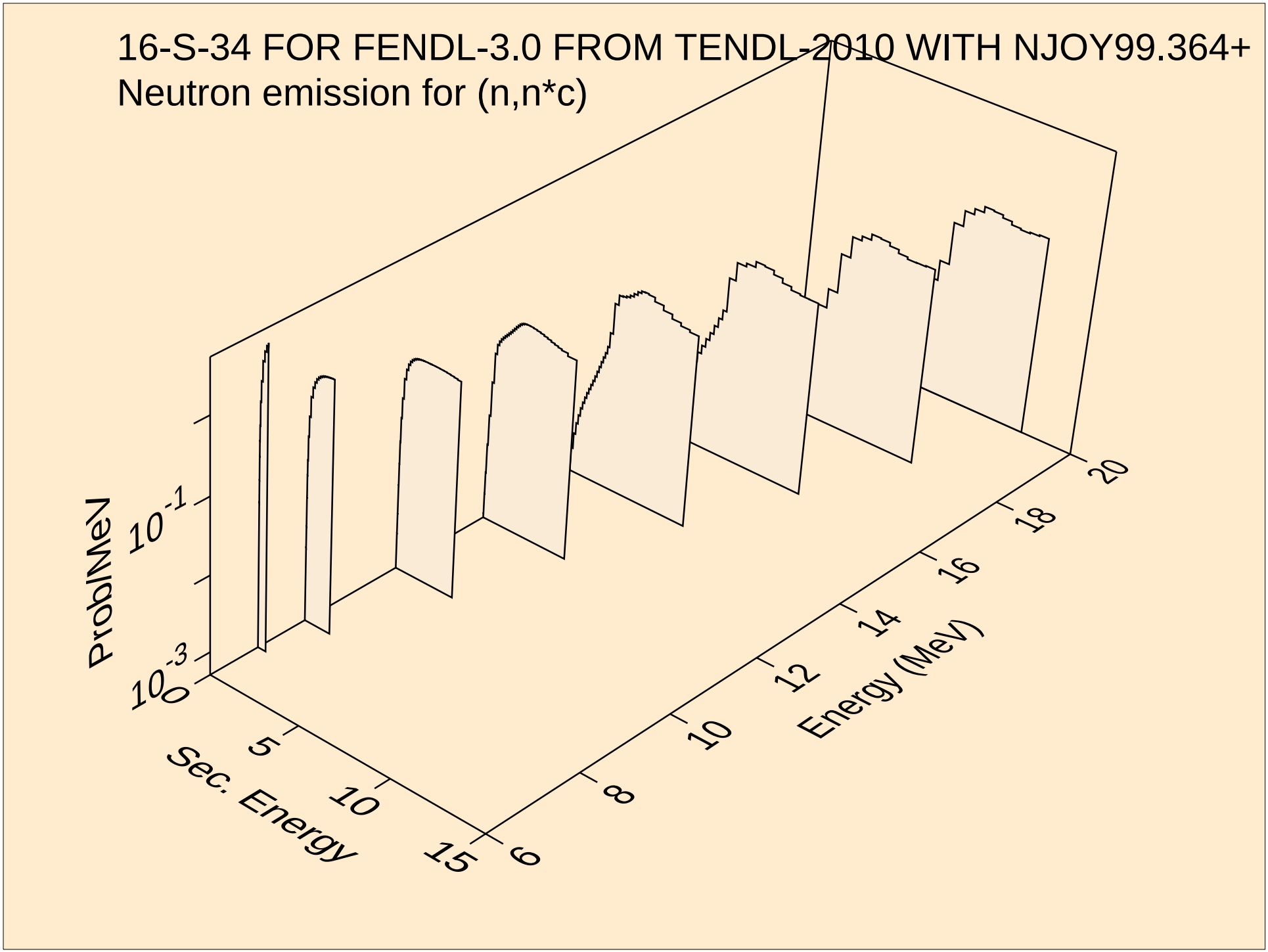

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Neutron emission for (n,x)
Prob/MeV
10^0
10^-2
0
50
100
150
Sec. Energy
0
50
100
150
200
Energy (MeV)

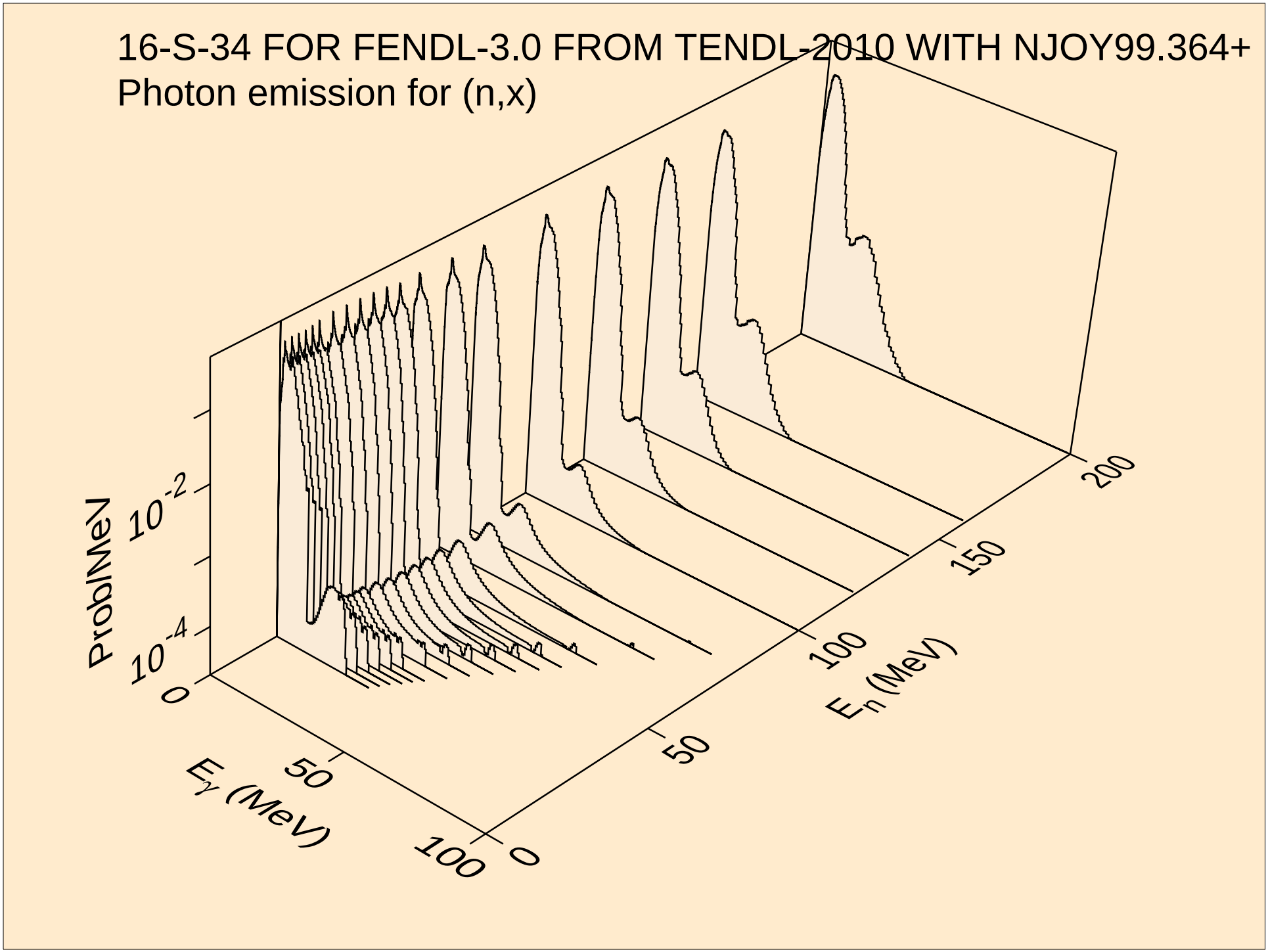

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Neutron emission for (n,2n)
Prob/MeV
10^{1}
10^{-1}
0
2
4
6
8
10
Sec. Energy
12
14
16
18
20
Energy (MeV)

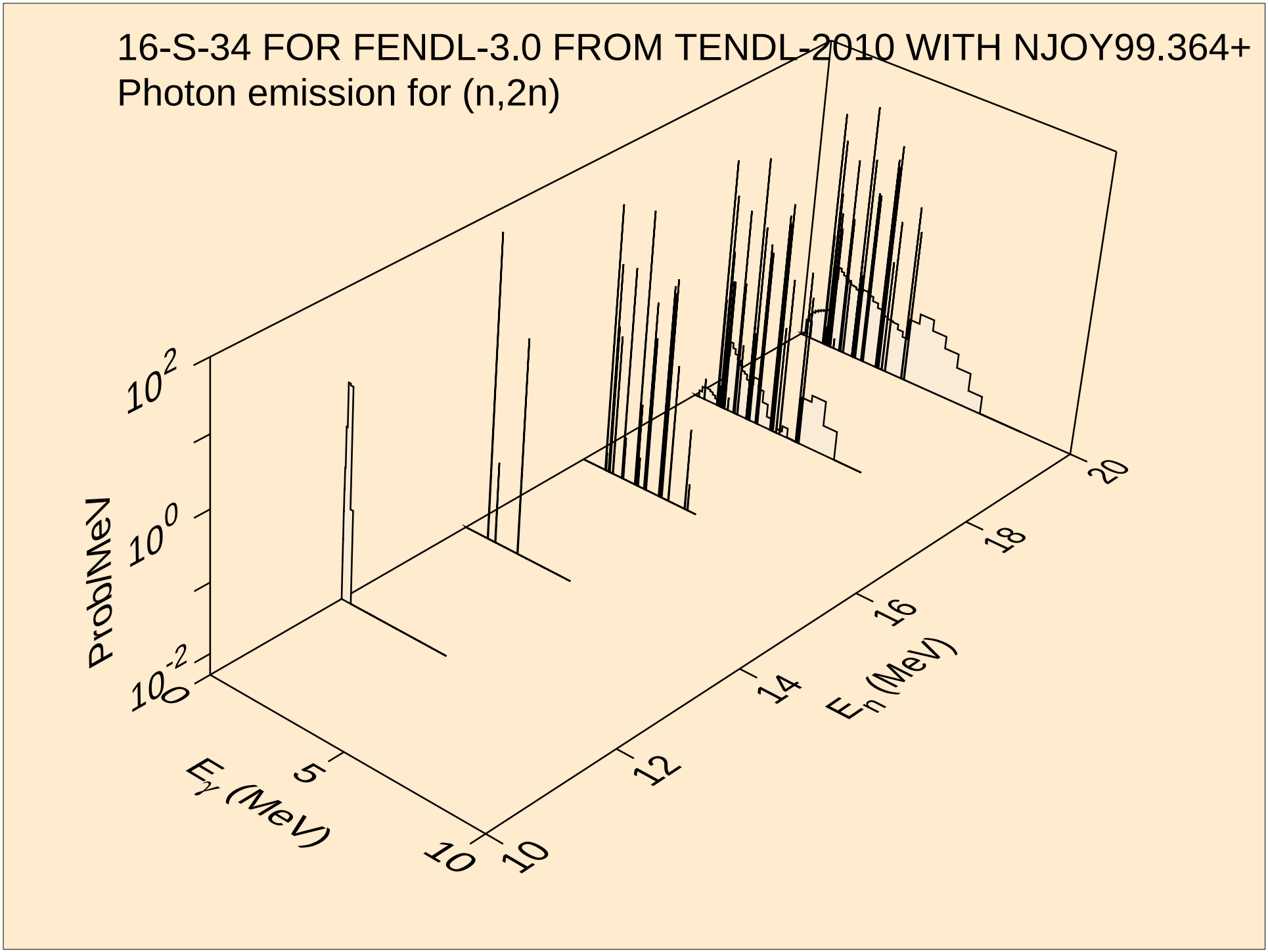

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Neutron emission for (n,n*)a
Prob/MeV
10-1
10-3
0
2
4
6
8
10
Sec. Energy
8
10
12
14
16
18
20
Energy (MeV)

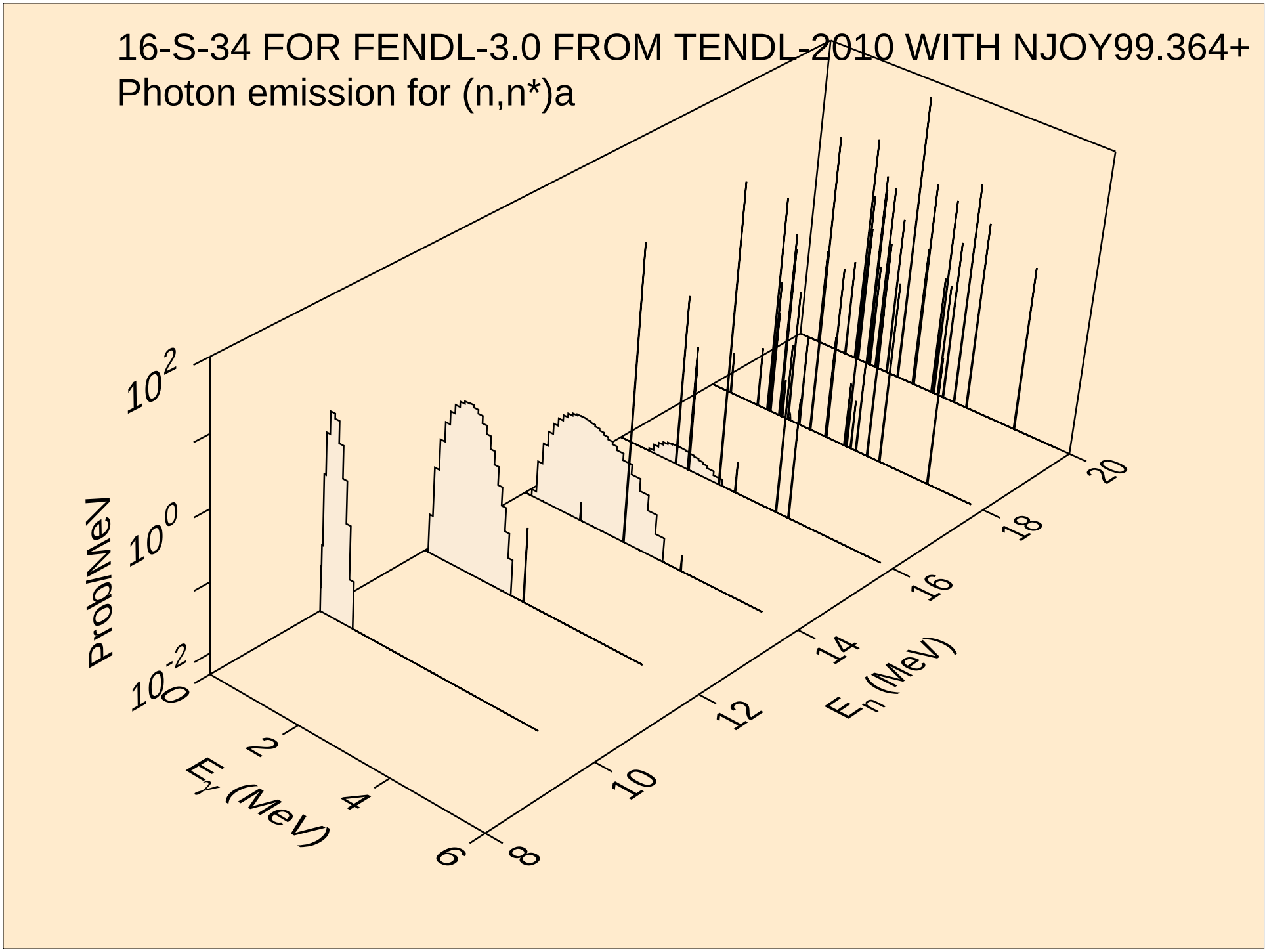

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Neutron emission for (n,n*)p
Prob/MeV
10^1
10^-1
0
2
4
6
8
10
12
14
16
18
20
Sec. Energy
Energy (MeV)

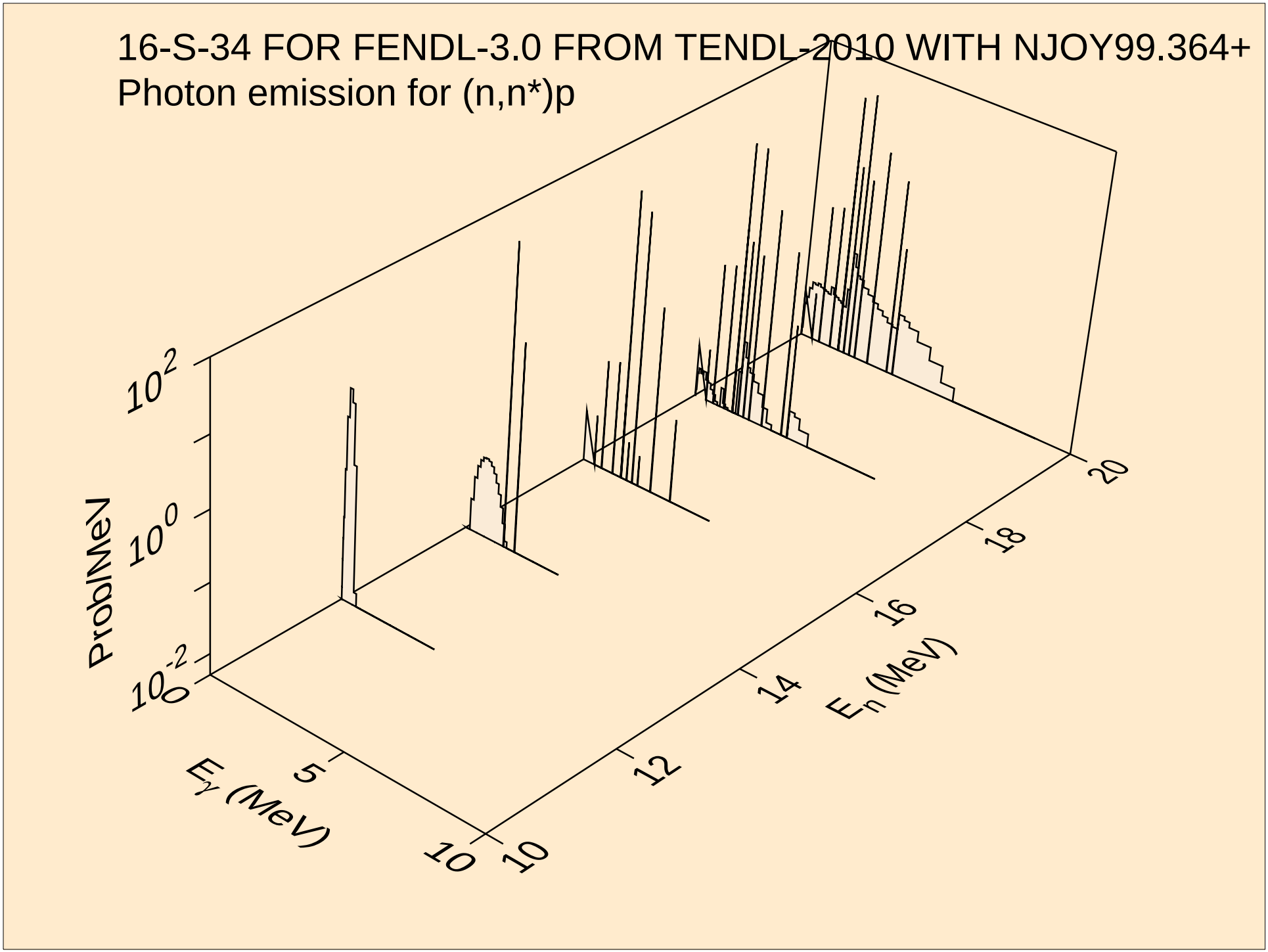

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Neutron emission for (n,n*)d
Prob/MeV
10^2
10^0
0
100
200
300
Sec. Energy *10 -3
19.3
19.4
19.5
19.6
19.7
19.8
19.9
20.0
Energy (MeV)

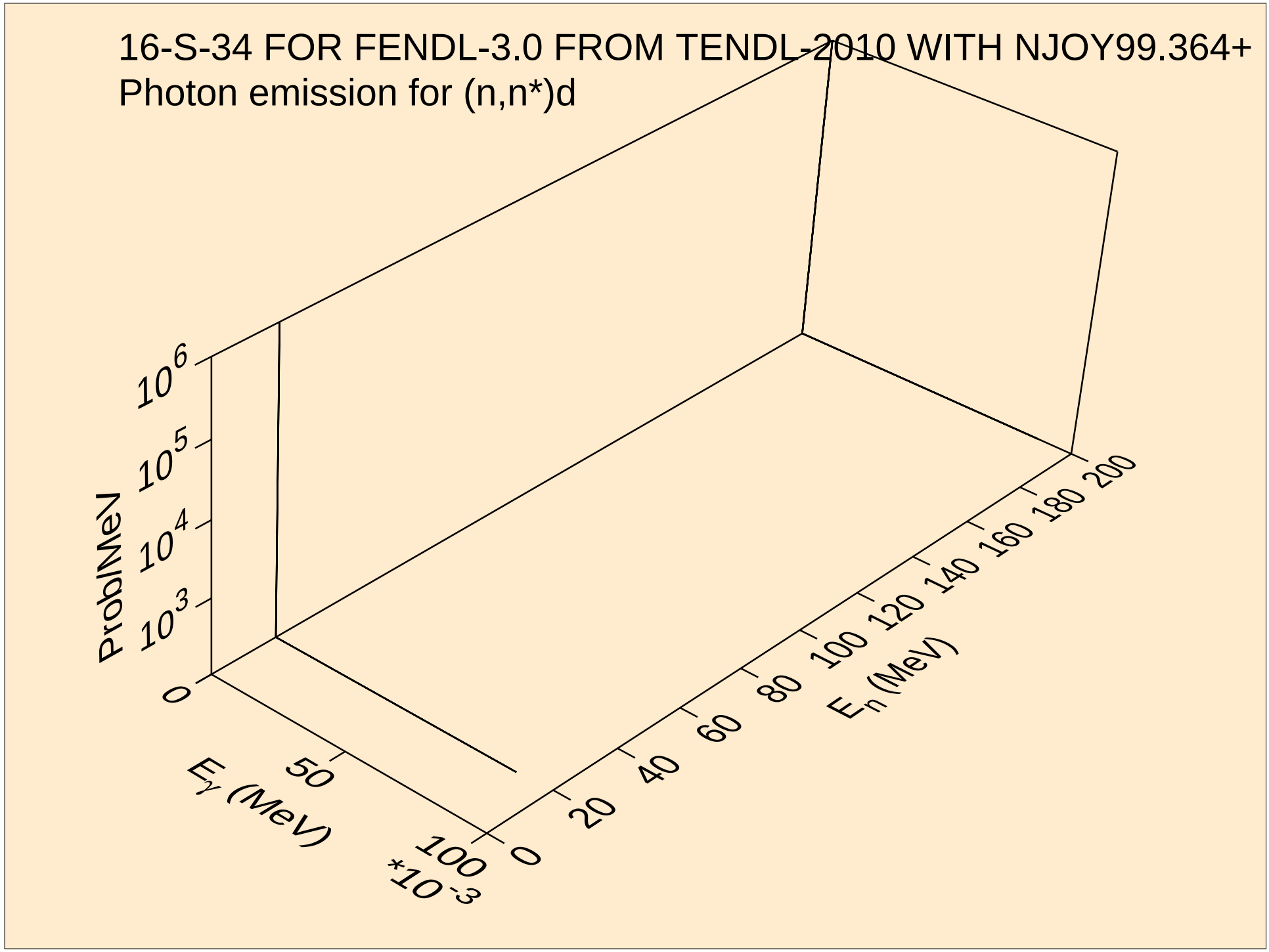

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Neutron emission for (n,n*c)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
6
8
10
12
14
16
18
20
Energy (MeV)

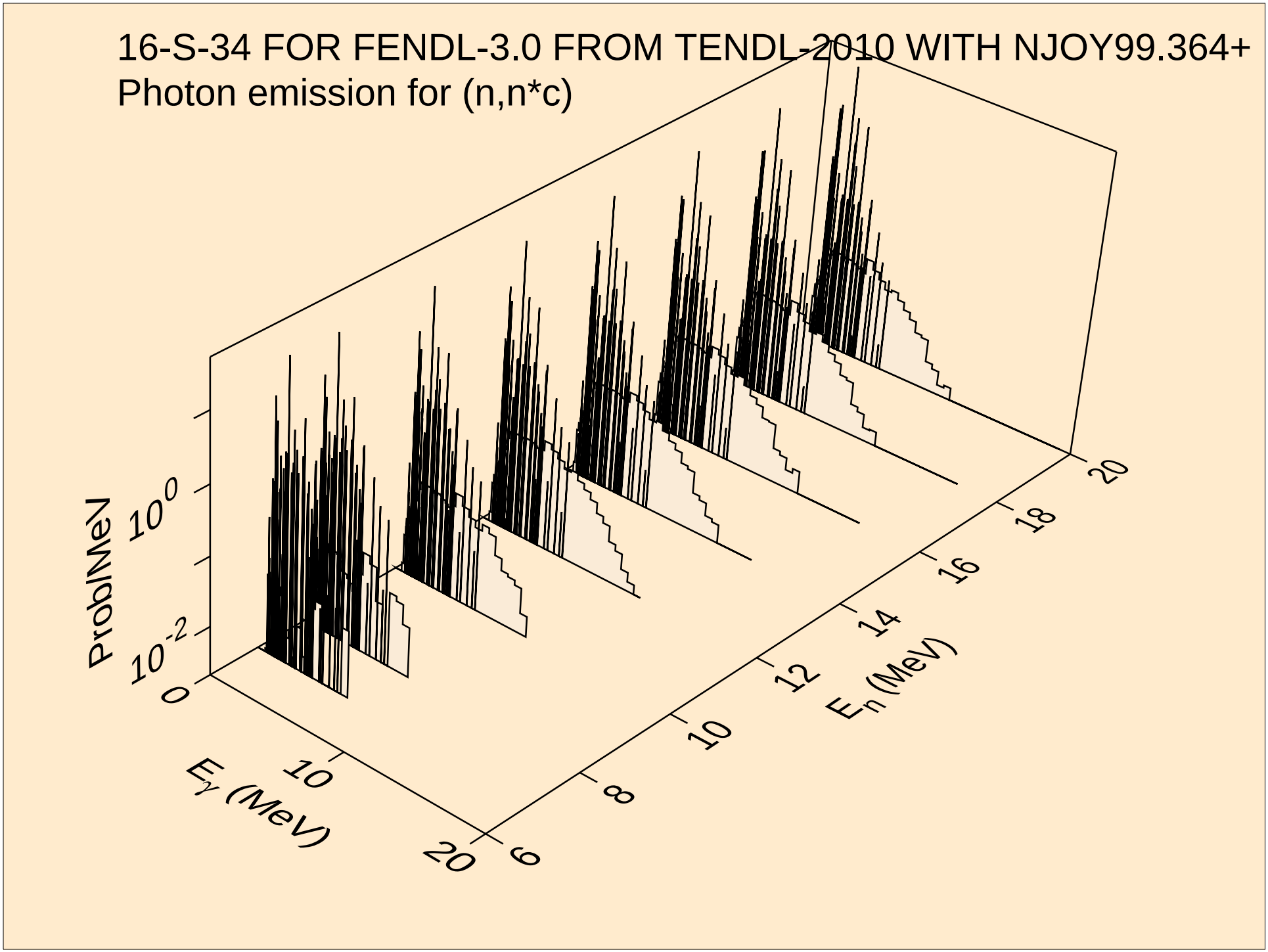

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,x)
Prob/MeV
10-2
10-4
0
50
100
Eγ (MeV)
0
50
100
150
200
En (MeV)

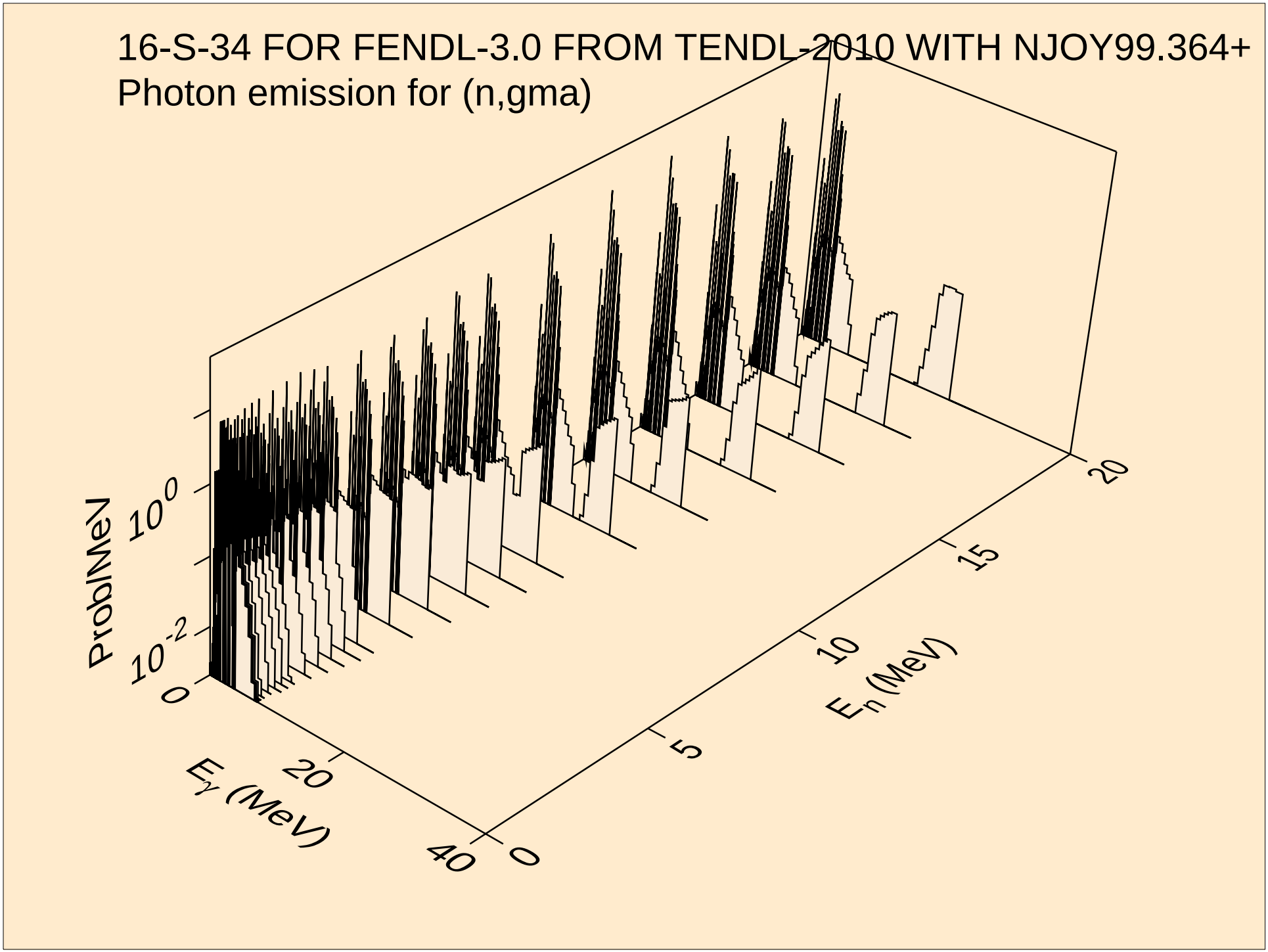

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,2n)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
10
12
14
16
18
20
E_n (MeV)

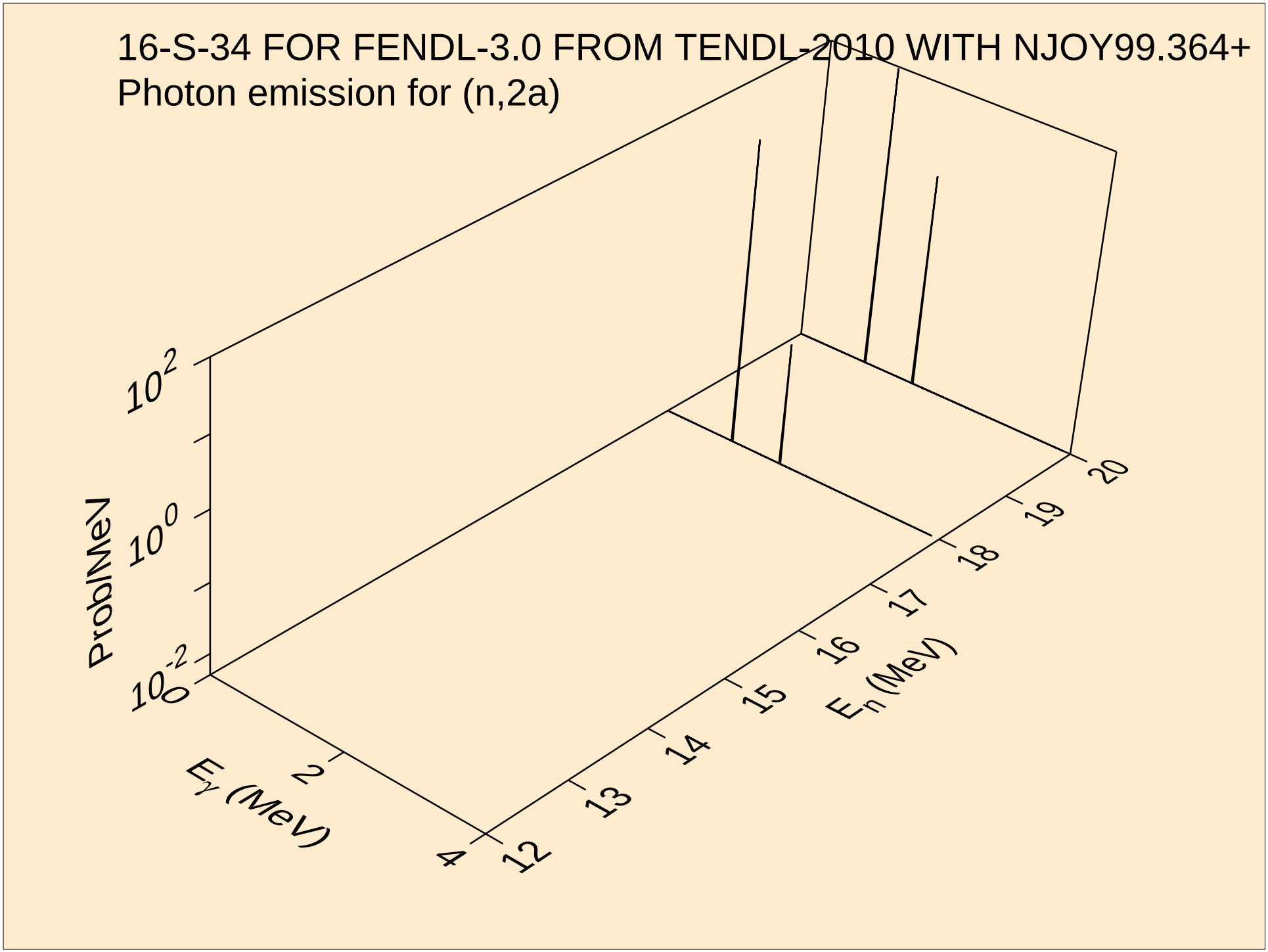

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,n*)a
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
2
4
6
8
E_γ (MeV)
10
12
14
16
18
20
E_n (MeV)

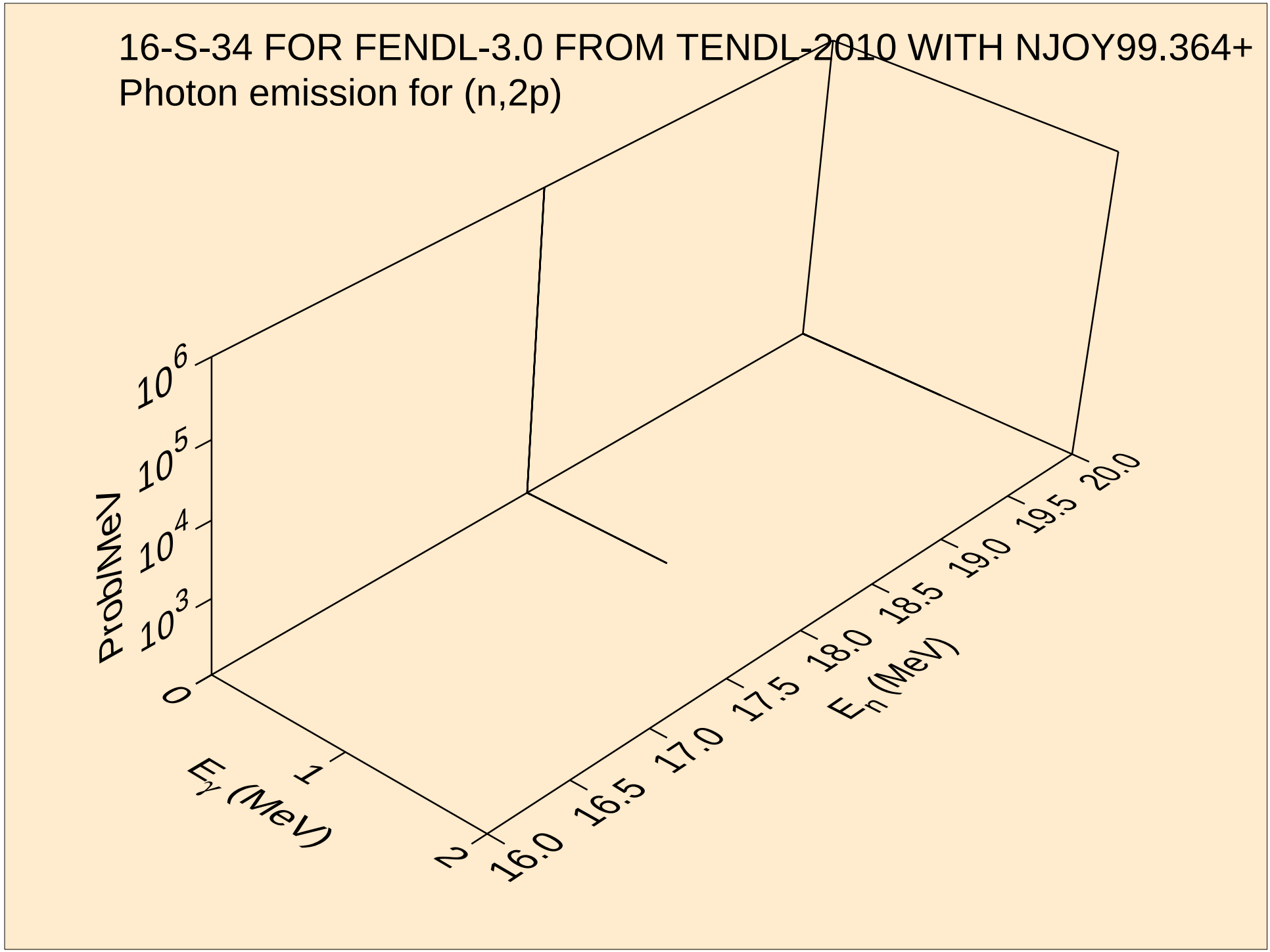

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,n*)p
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
10
12
14
16
18
20
E_n (MeV)

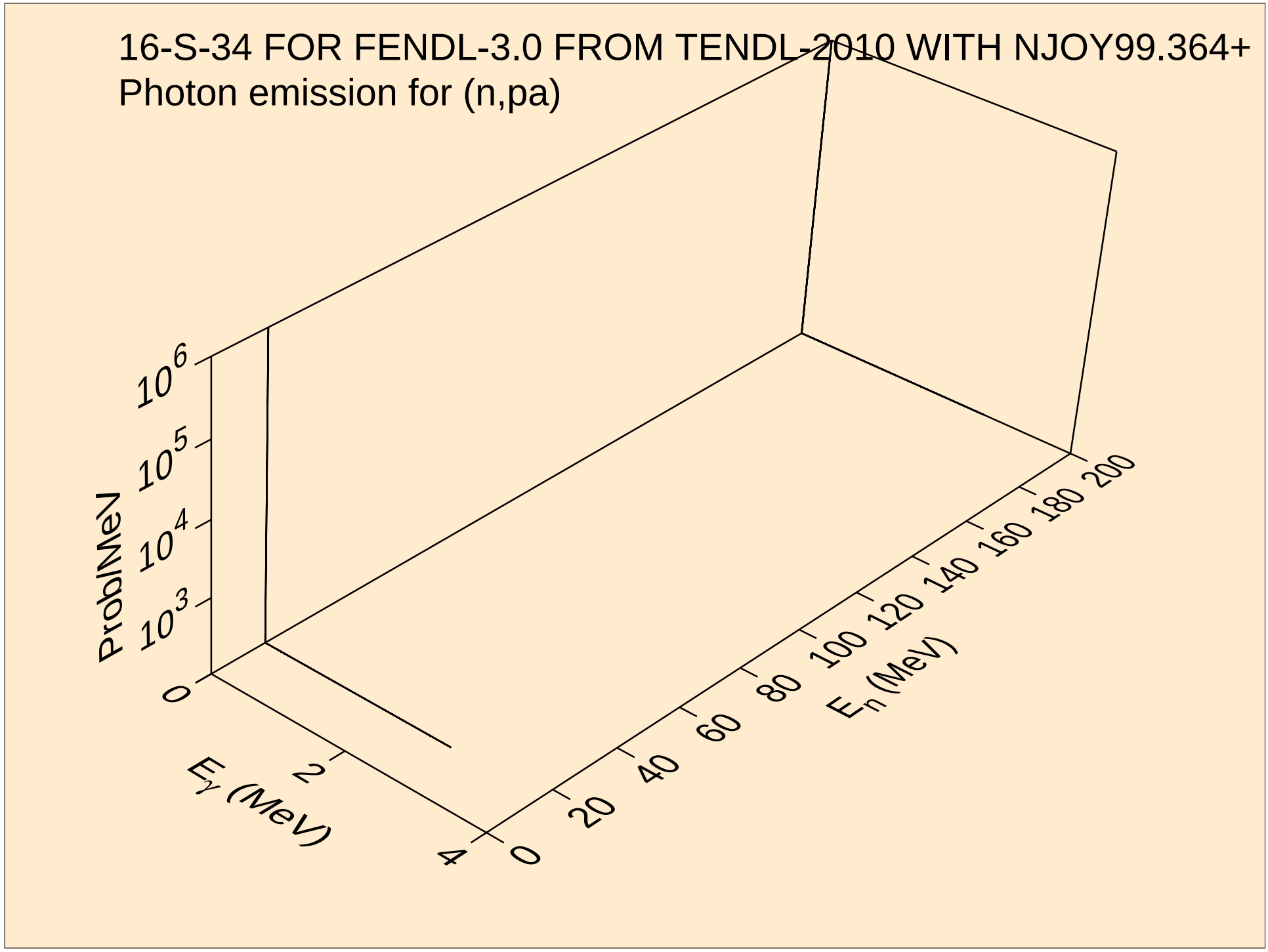

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,n*)d
Prob/MeV
10^6
10^5
10^4
10^3
0
50
100
E_γ (MeV)
*10 -3
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

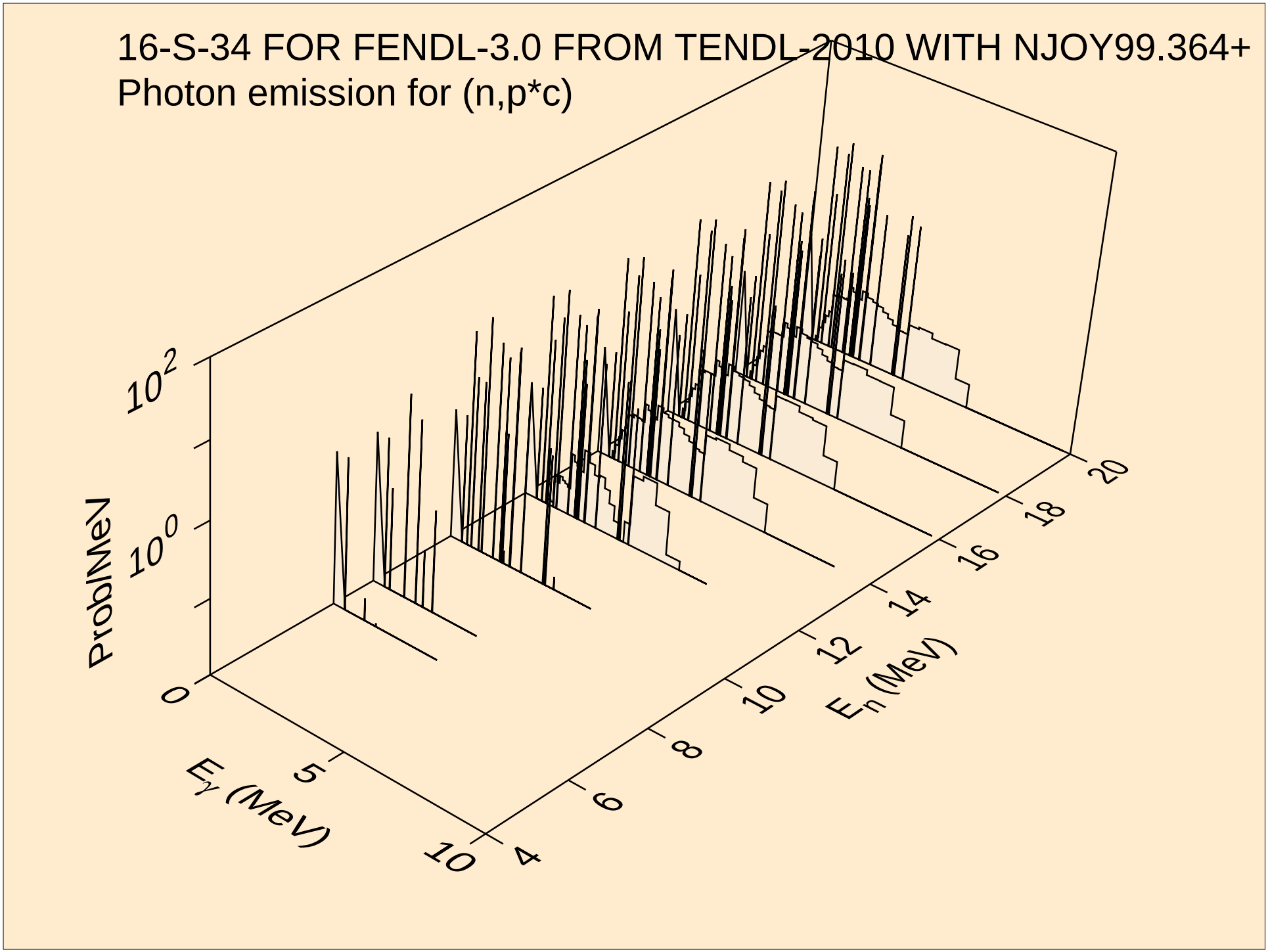

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,n*c)
Prob/MeV
10^0
10^-2
0
E_γ (MeV)
10
20
6
8
10
12
14
16
18
20
E_n (MeV)

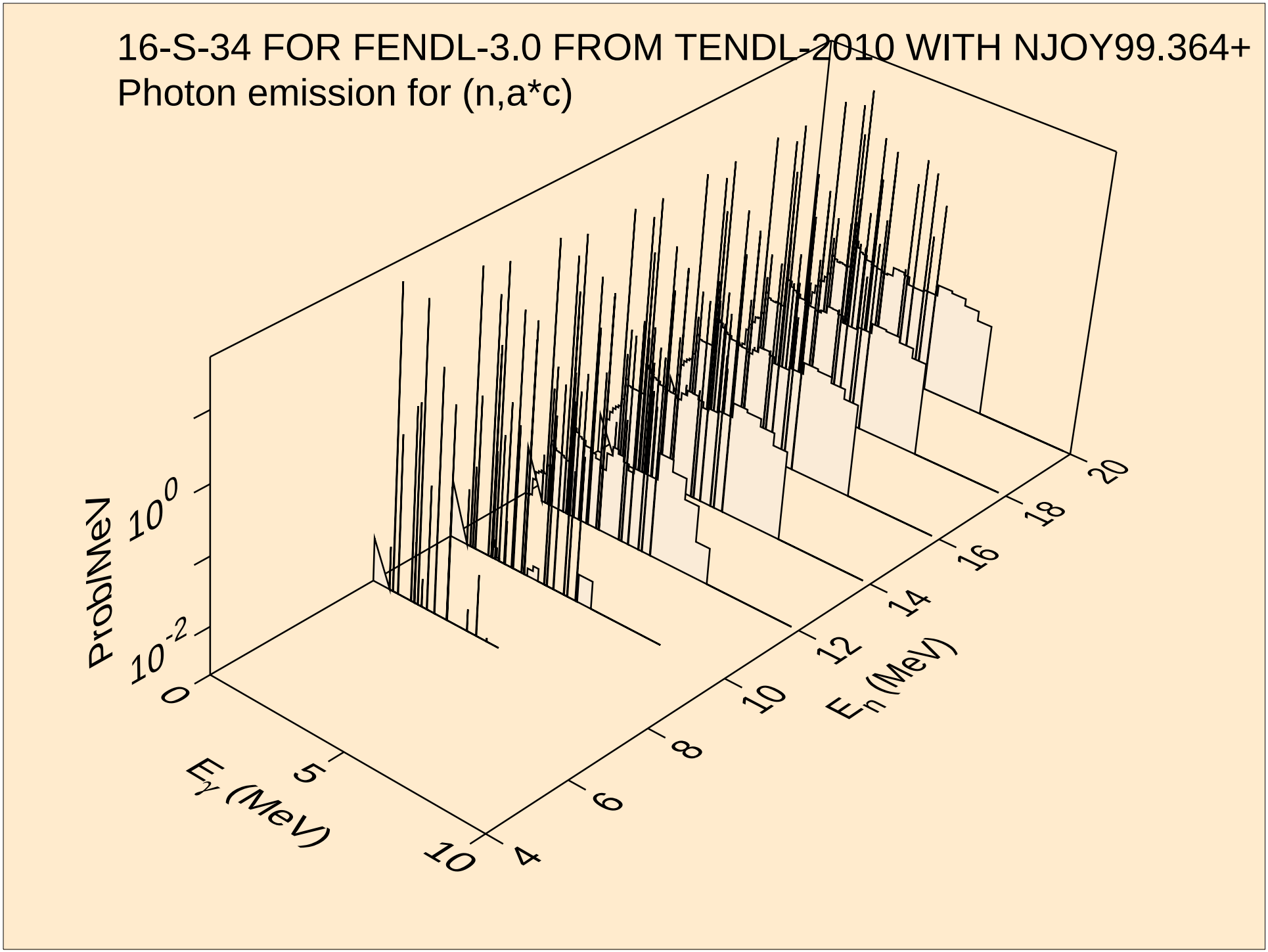

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,gma)
Prob/MeV
10^0
10^-2
0
20
40
E_γ (MeV)
0
5
10
15
20
E_n (MeV)

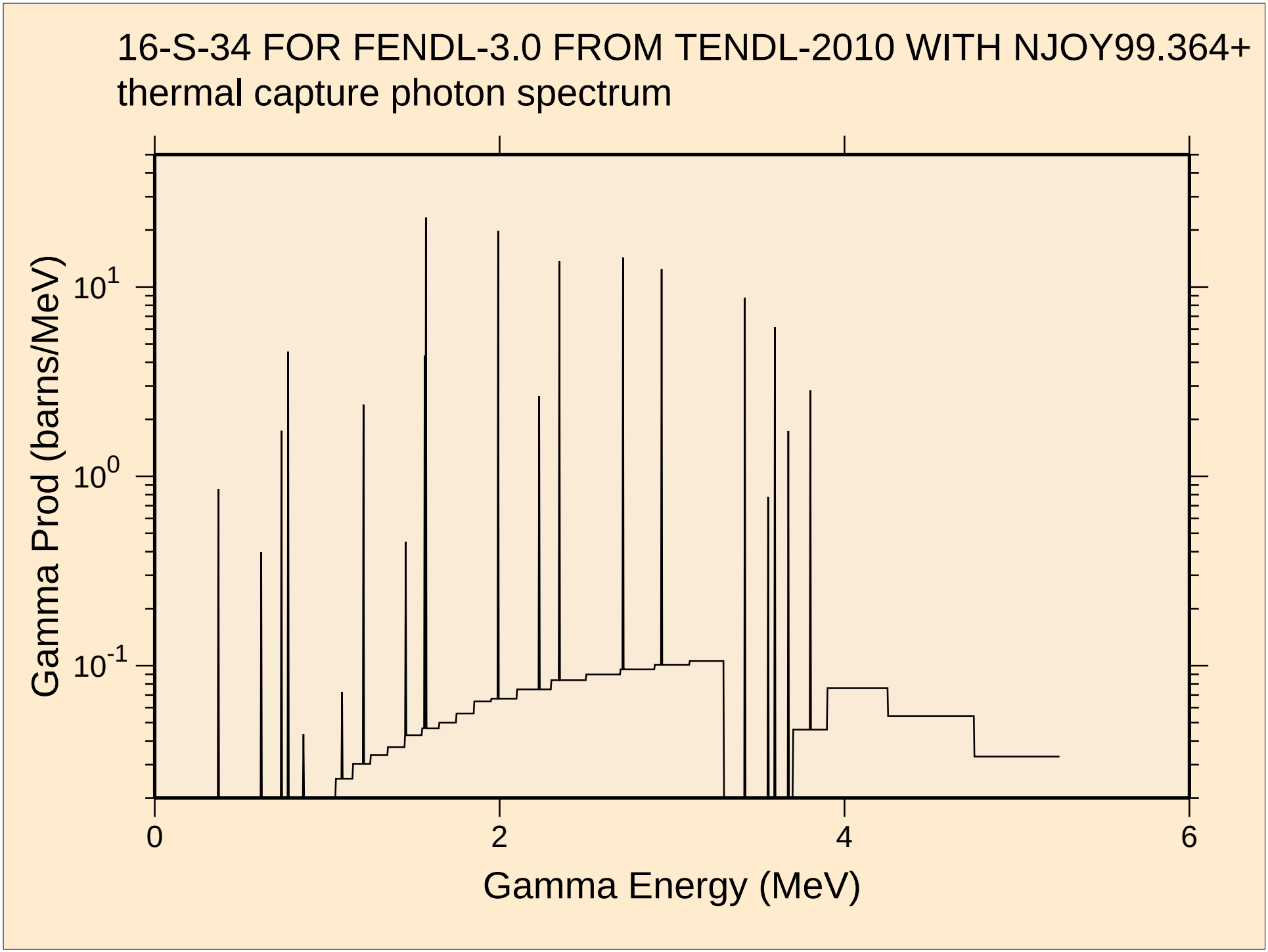

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,2a)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
2
4
E_n (MeV)
12
13
14
15
16
17
18
19
20

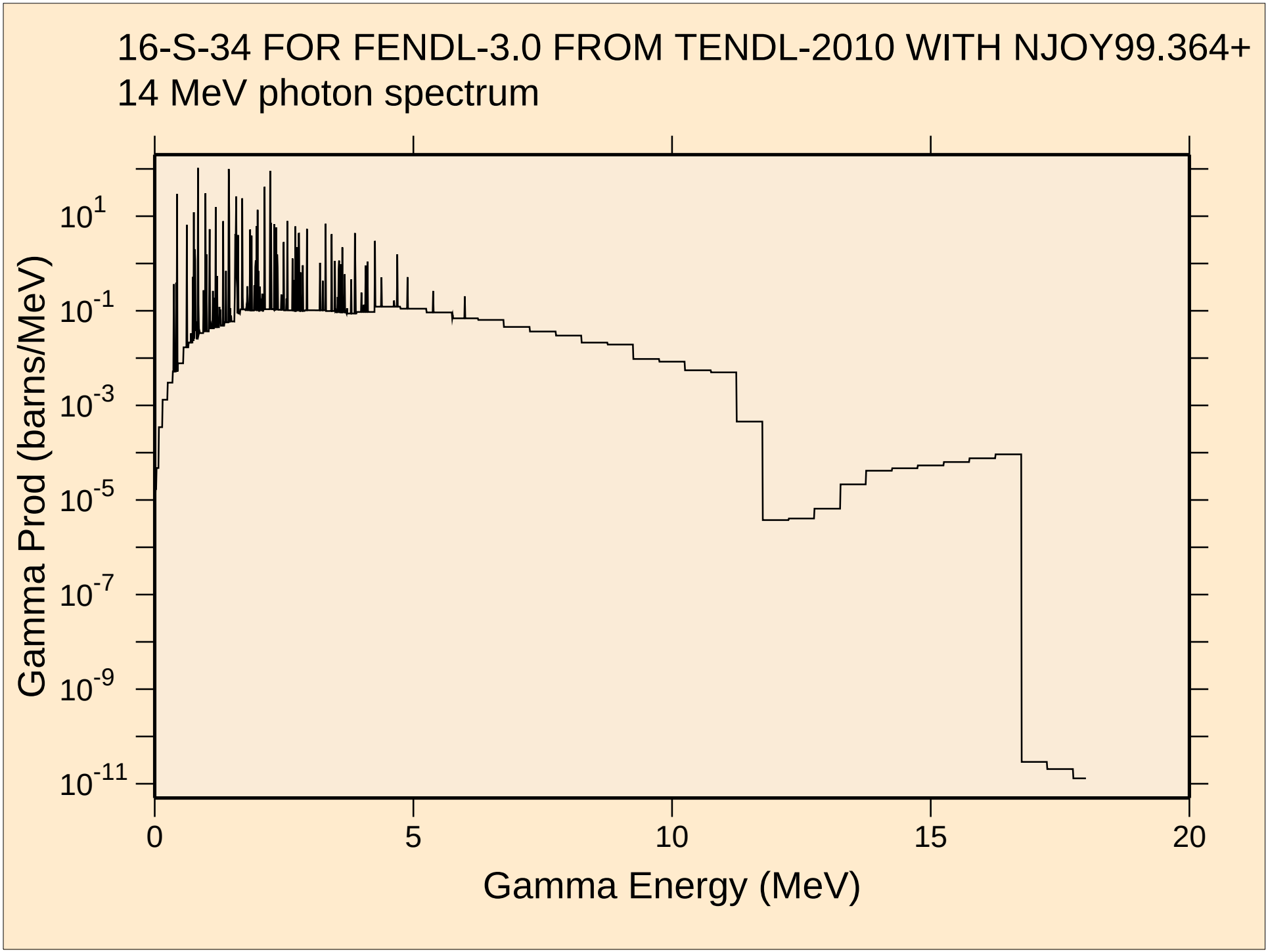

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,2p)
Prob/MeV
10^6
10^5
10^4
10^3
0
E_γ (MeV)
1
2
16.0
16.5
17.0
17.5
18.0
18.5
19.0
19.5
20.0
E_n (MeV)

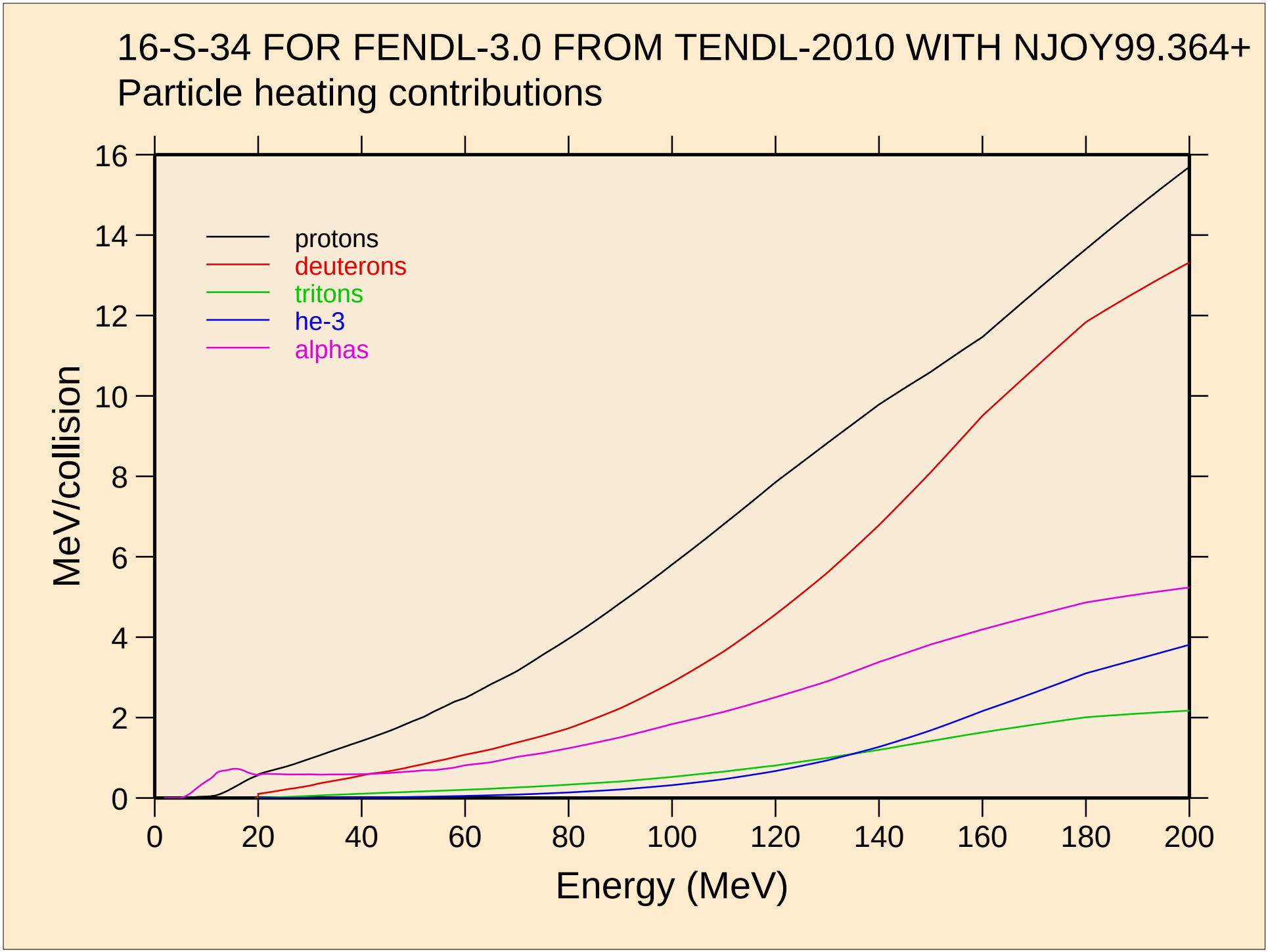

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,pa)
Prob/MeV
10^6
10^5
10^4
10^3
0
2
4
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

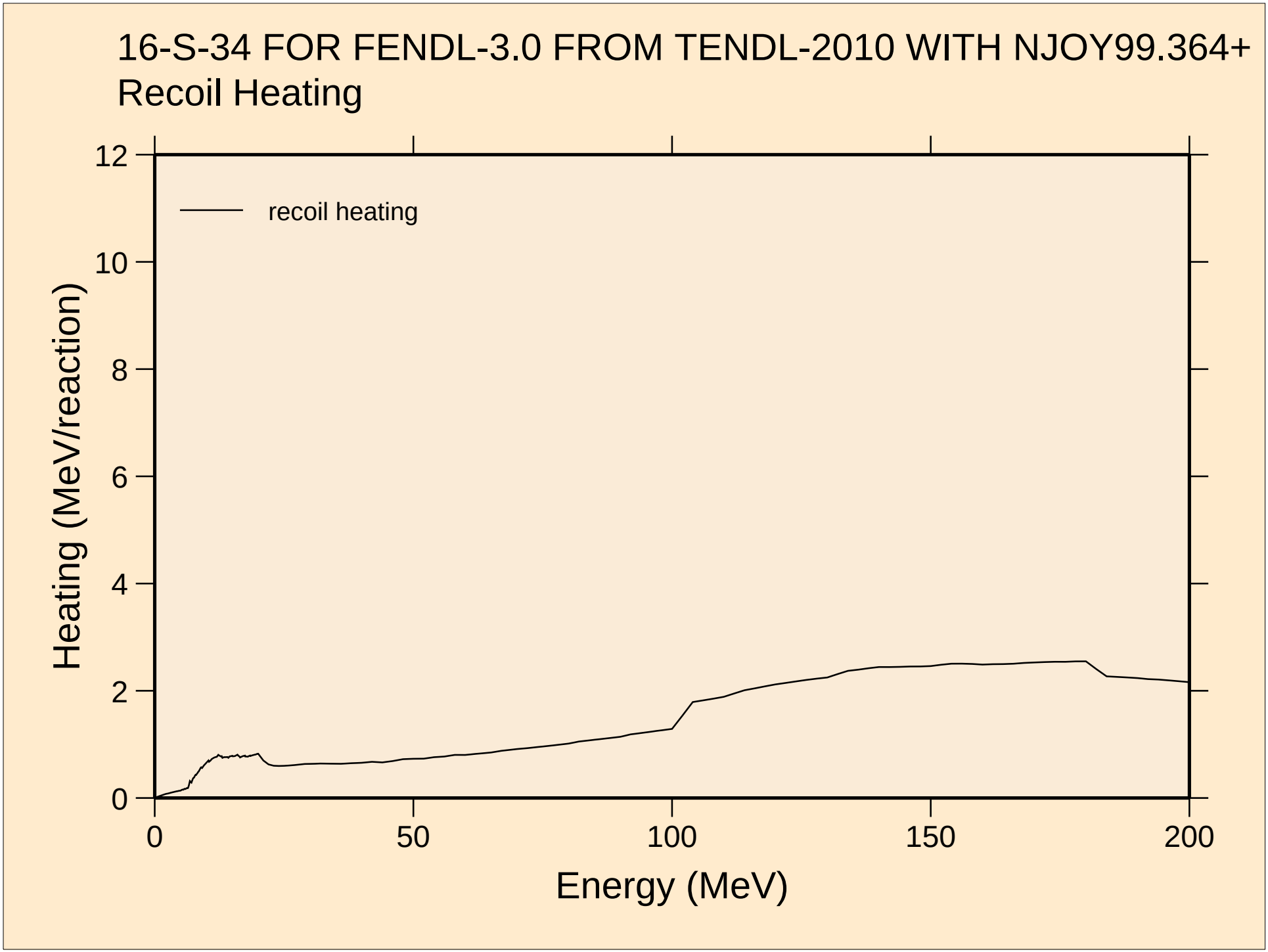

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,p*c)
Prob/MeV
10^2
10^0
0
5
10
E_γ (MeV)
4
6
8
10
12
14
16
18
20
E_n (MeV)

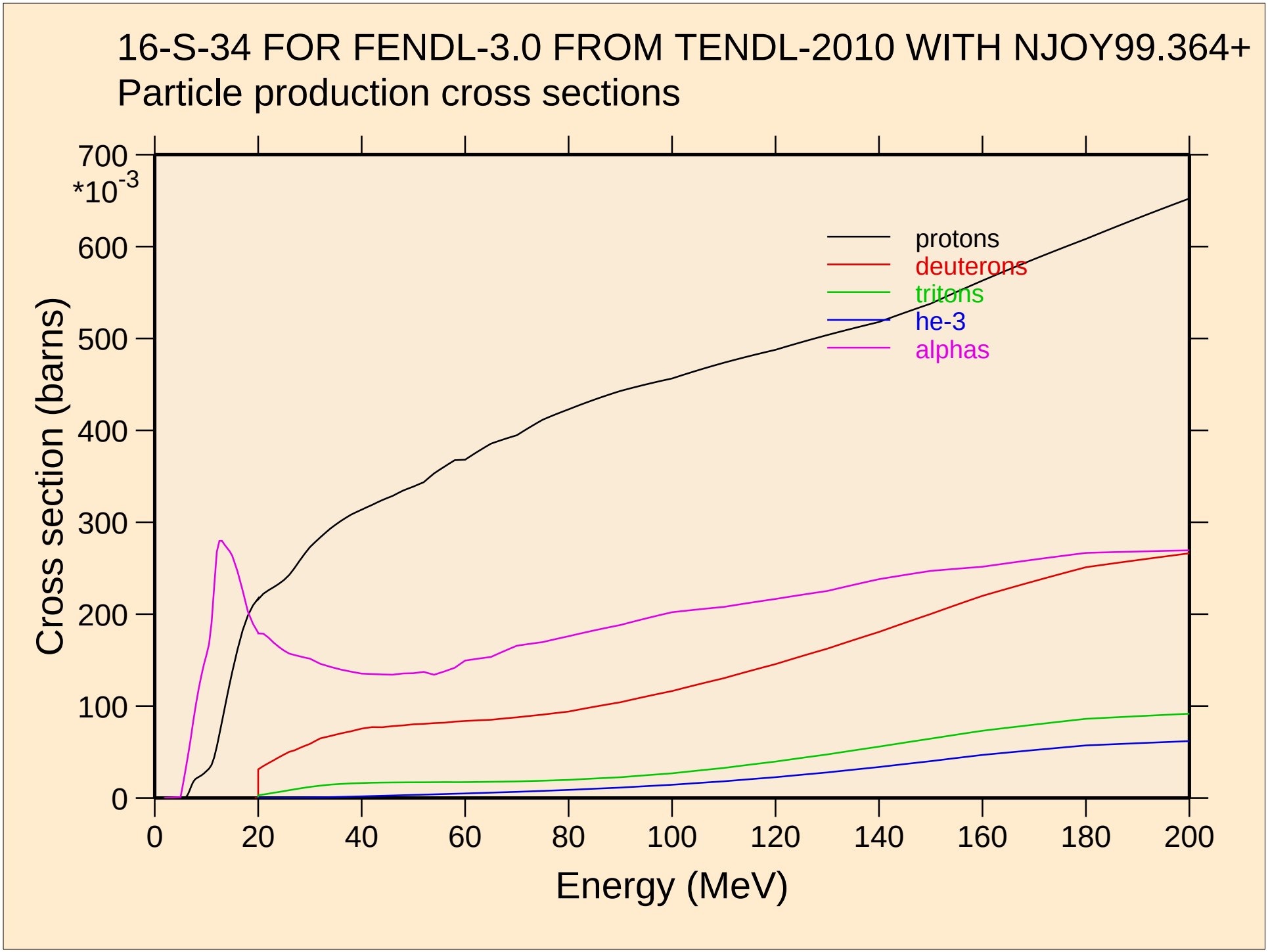

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Photon emission for (n,a*c)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
4
6
8
10
12
14
16
18
20
E_n (MeV)

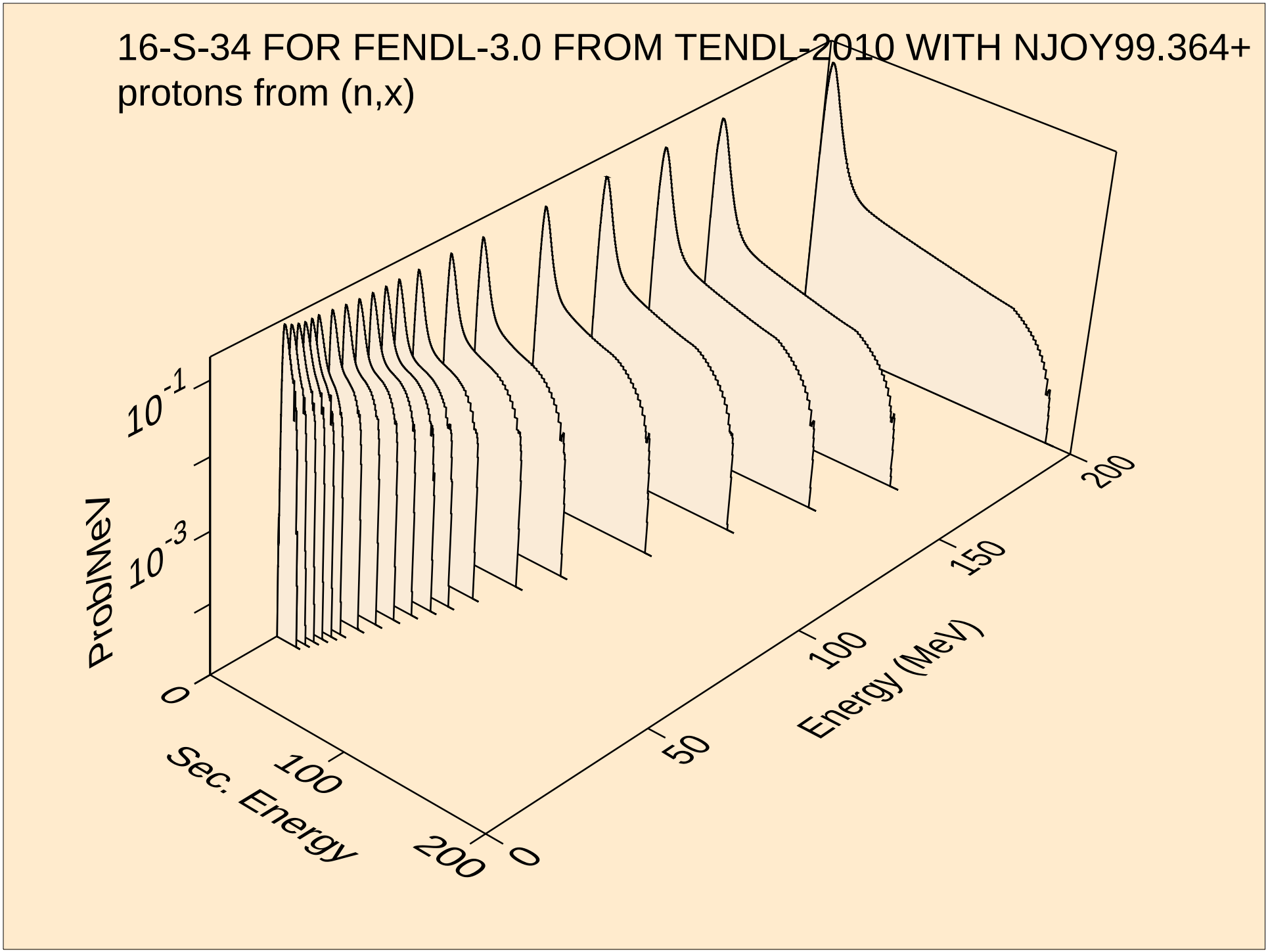

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10^1
10^0
10^-1
0
2
4
6
Gamma Energy (MeV)

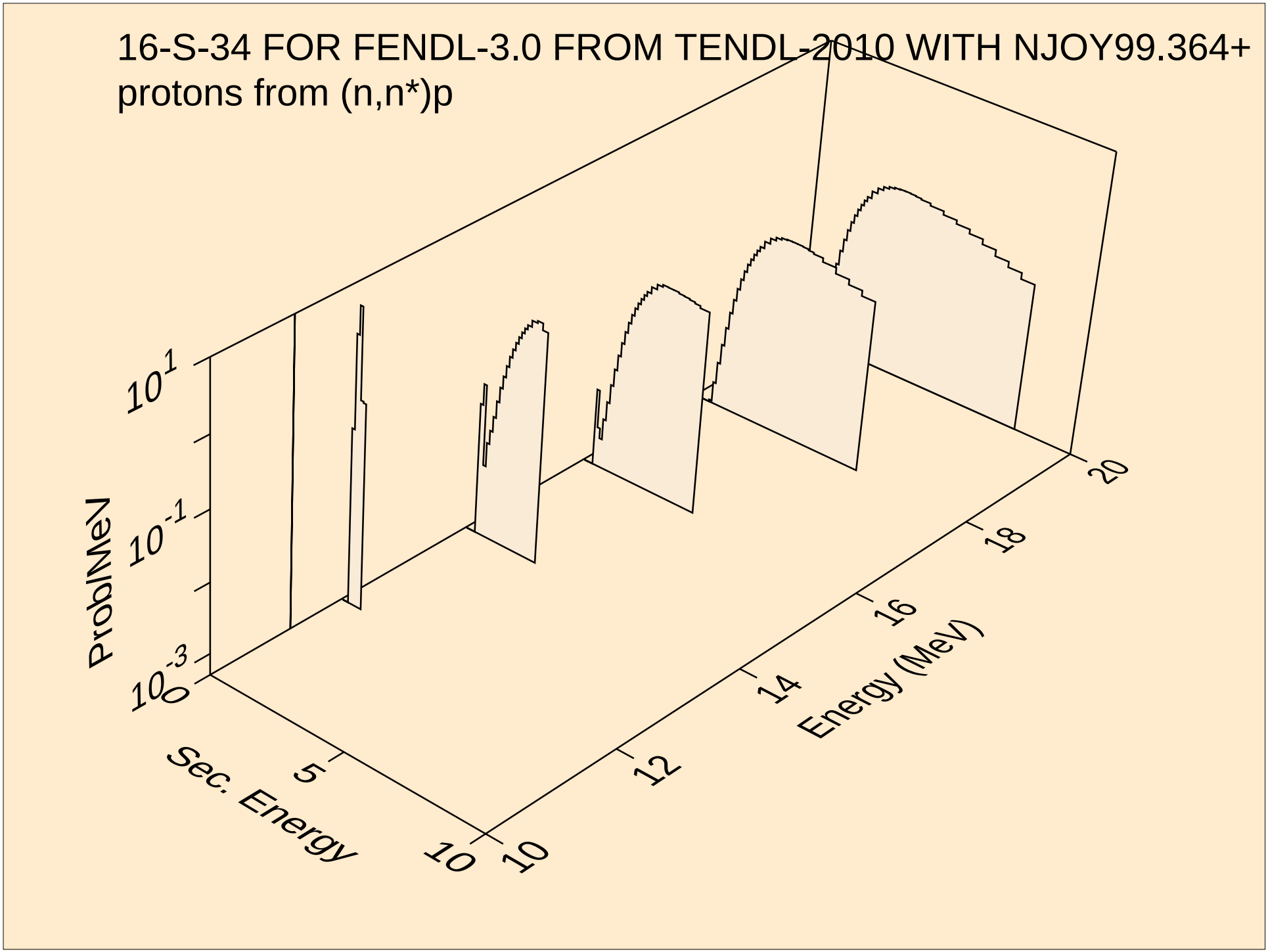

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^1
10^-1
10^-3
10^-5
10^-7
10^-9
10^-11
0
5
10
15
20
Gamma Energy (MeV)

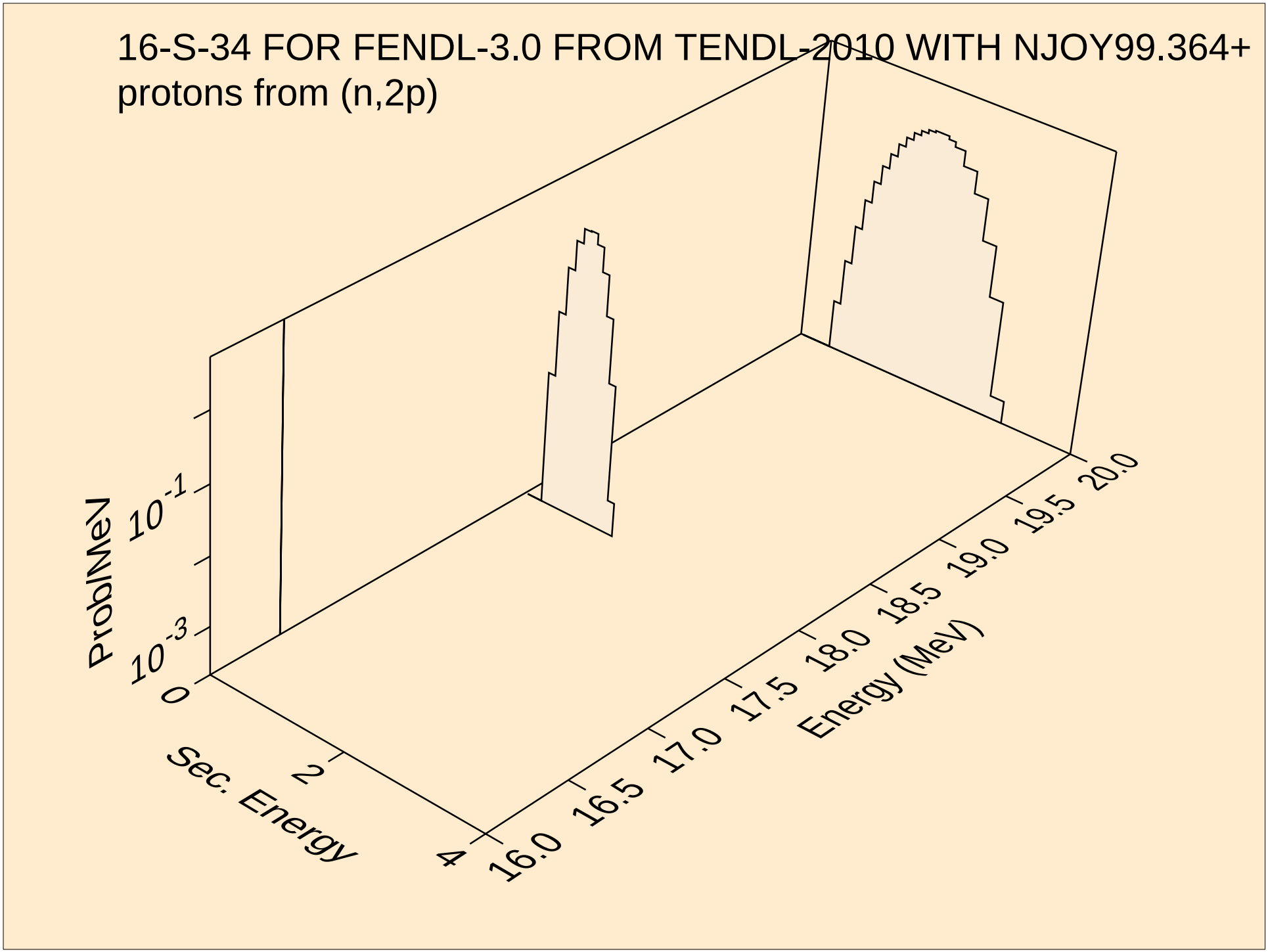

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Particle heating contributions
protons
deuterons
tritons
he-3
alphas
MeV/collision
Energy (MeV)
0
2
4
6
8
10
12
14
16
0
20
40
60
80
100
120
140
160
180
200

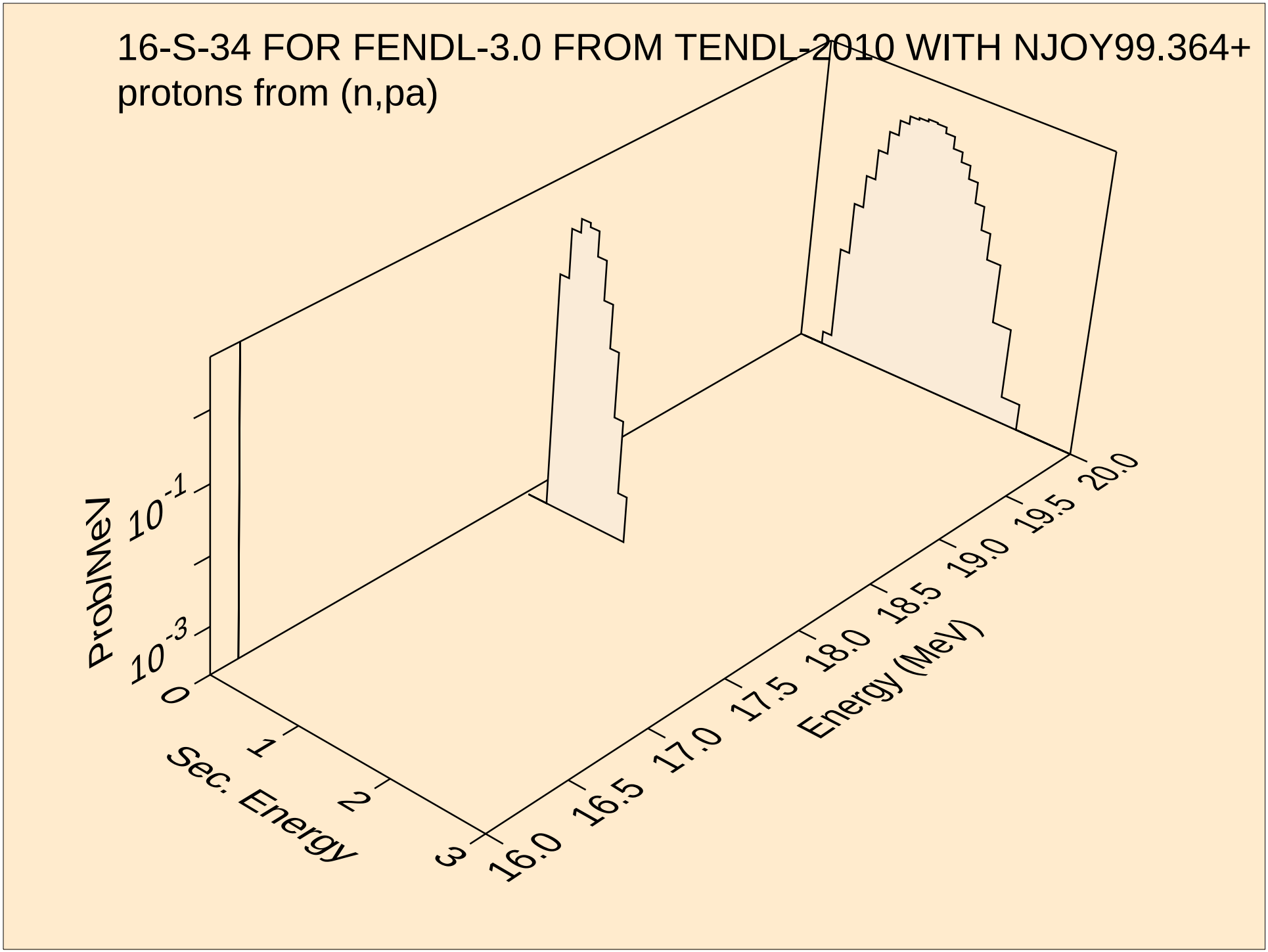

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0
2
4
6
8
10
12
0
50
100
150
200

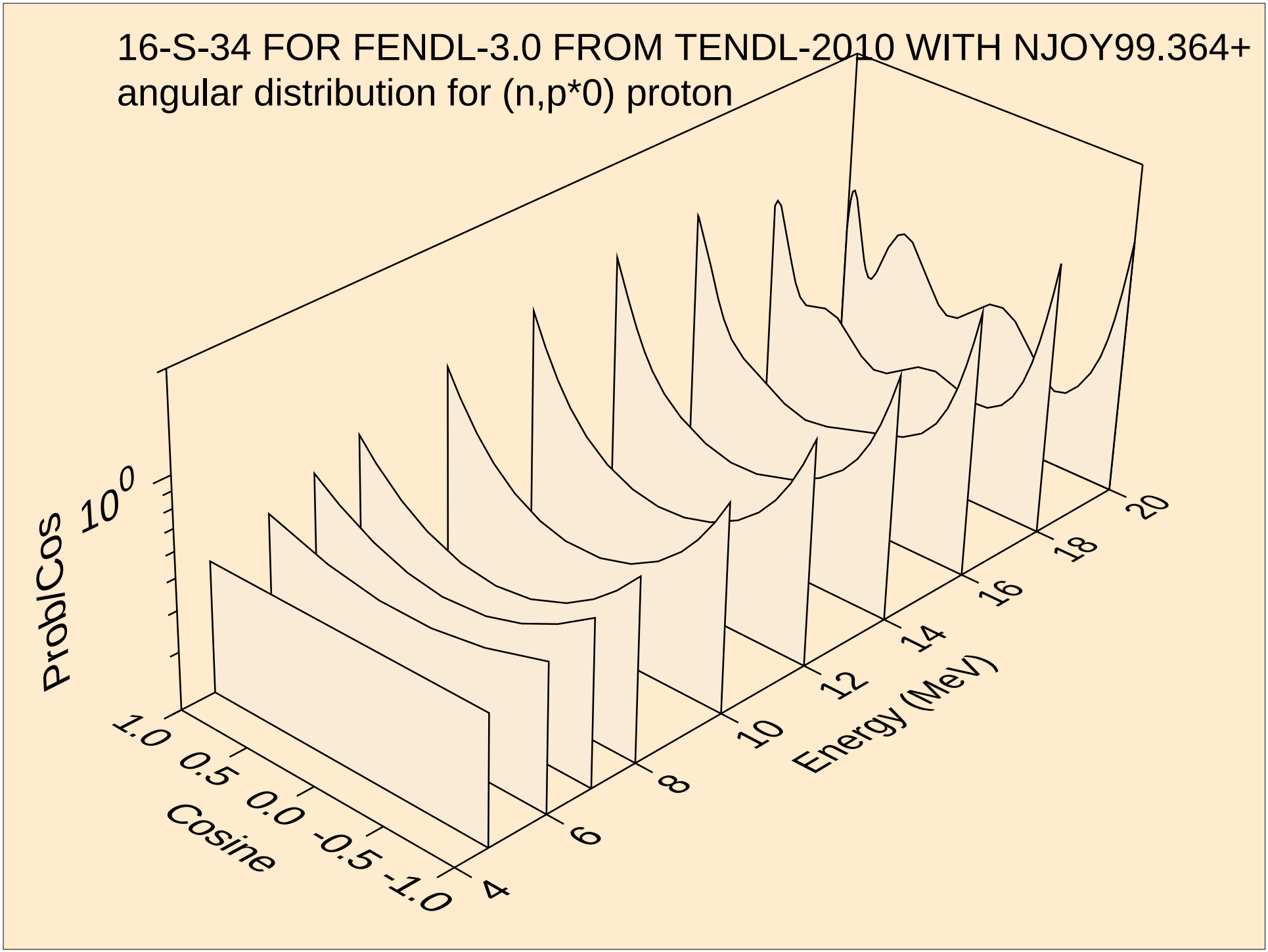

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
Particle production cross sections
Cross section (barns)
*10-3
700
600
500
400
300
200
100
0
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)
protons
deuterons
tritons
he-3
alphas

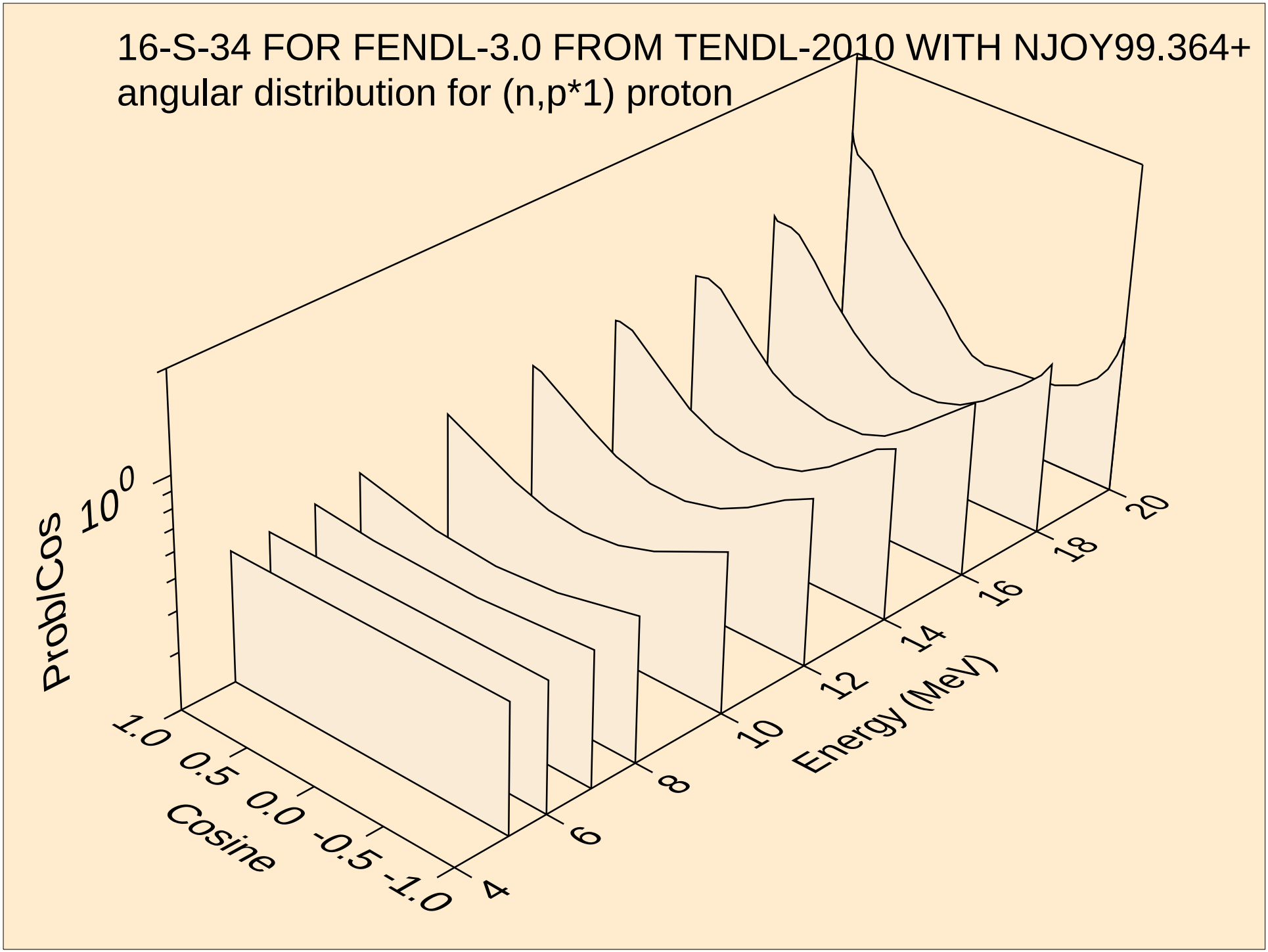

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
protons from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

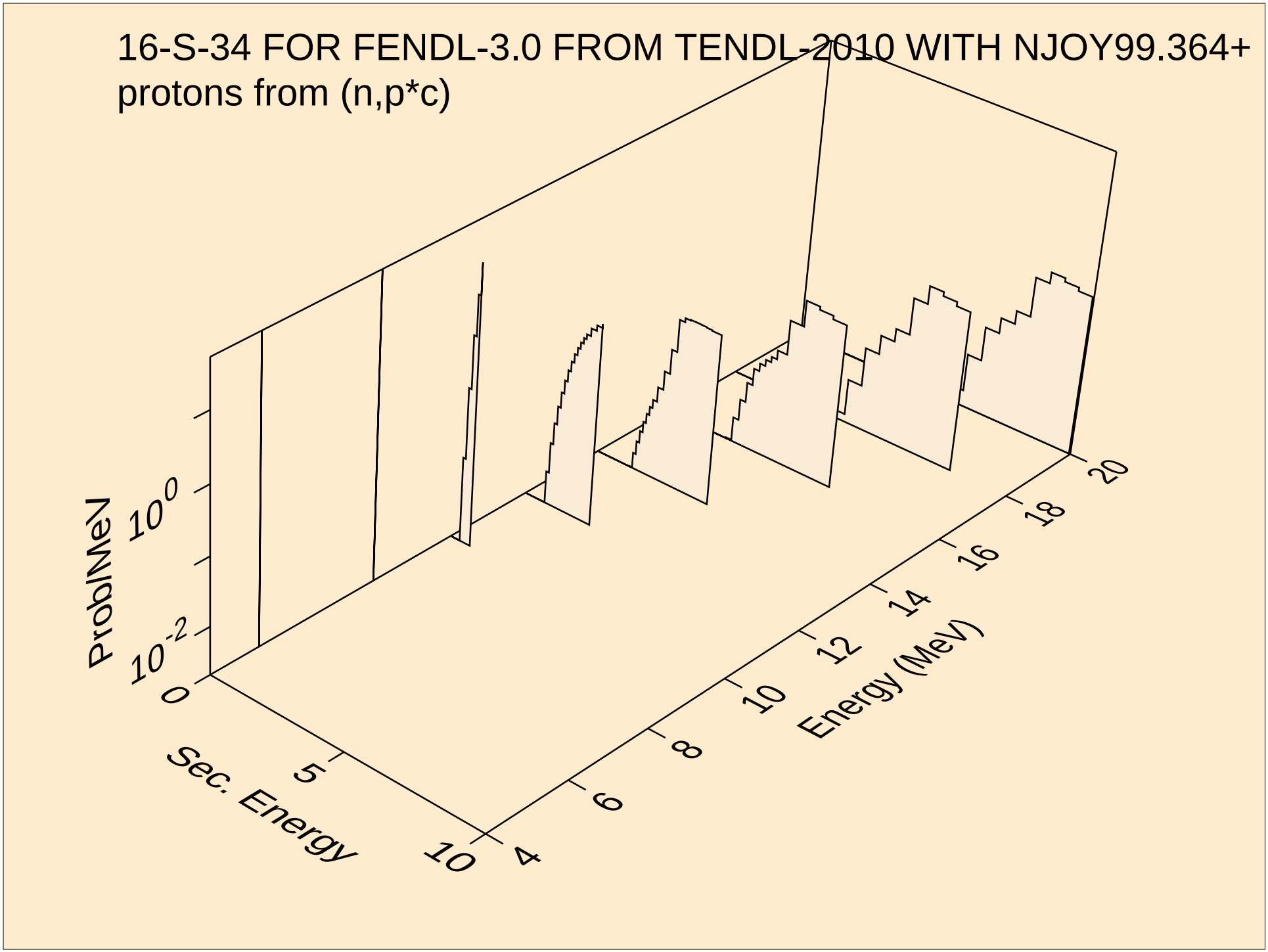

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
protons from (n,n*)p
Prob/MeV
10^1
10^-1
10^-3
0
5
10
Sec. Energy
10
12
14
16
18
20
Energy (MeV)

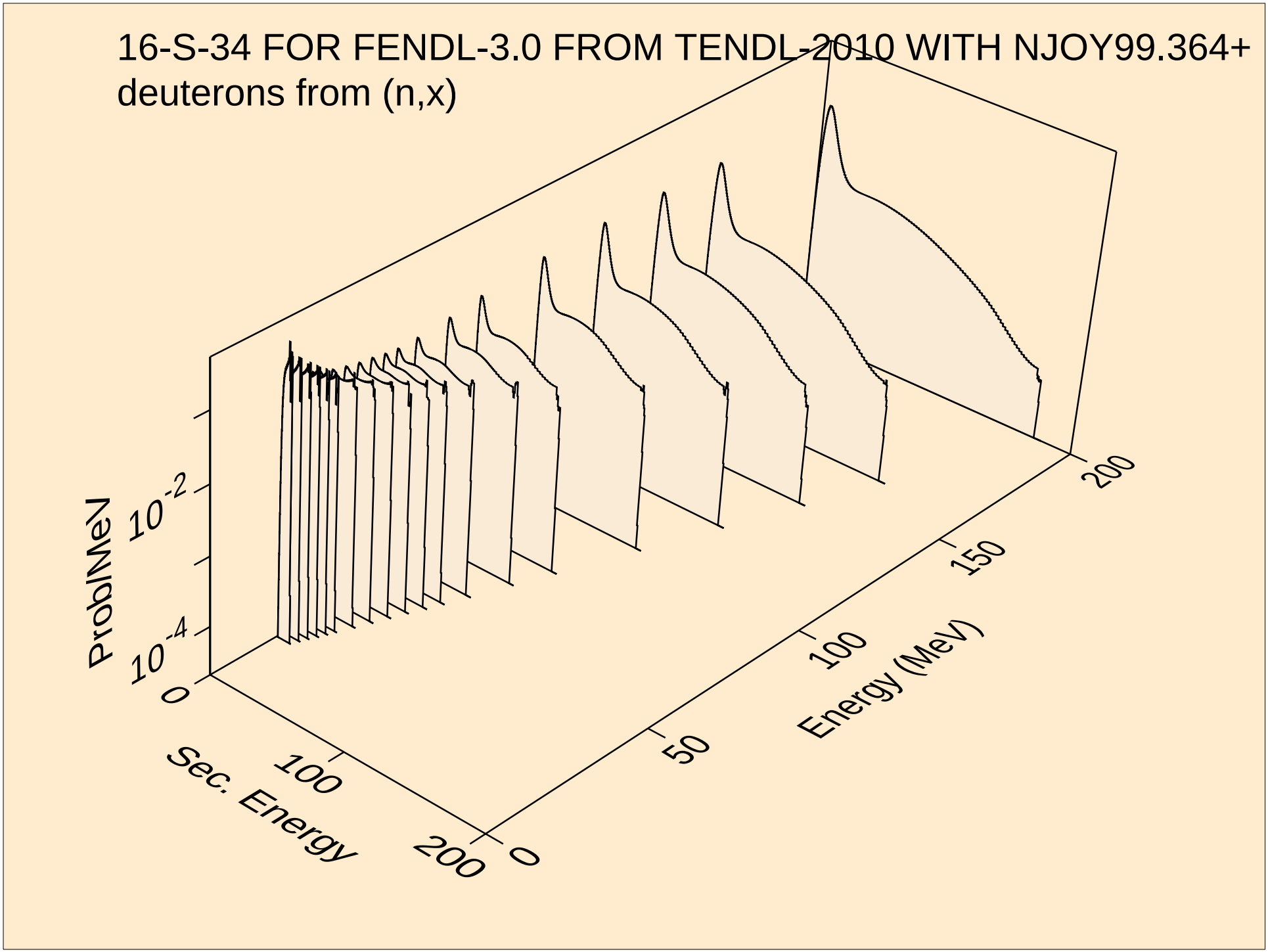

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
protons from (n,2p)
Prob/MeV
10-1
10-3
0
Sec. Energy
2
4
16.0
16.5
17.0
17.5
18.0
18.5
19.0
19.5
20.0
Energy (MeV)

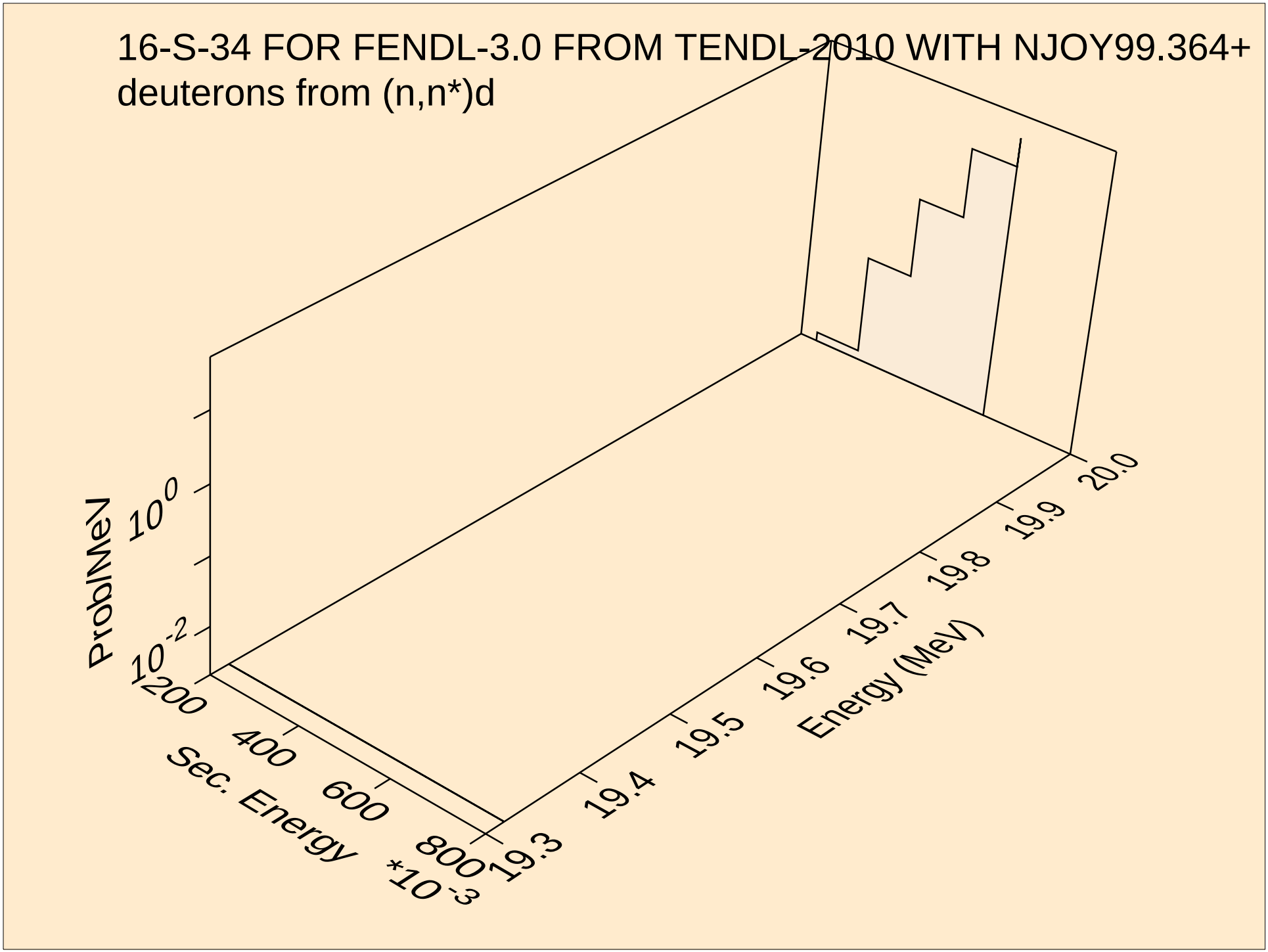

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
protons from (n,pa)
Prob/MeV
10-1
10-3
0
1
2
3
Sec. Energy
16.0
16.5
17.0
17.5
18.0
18.5
19.0
19.5
20.0
Energy (MeV)

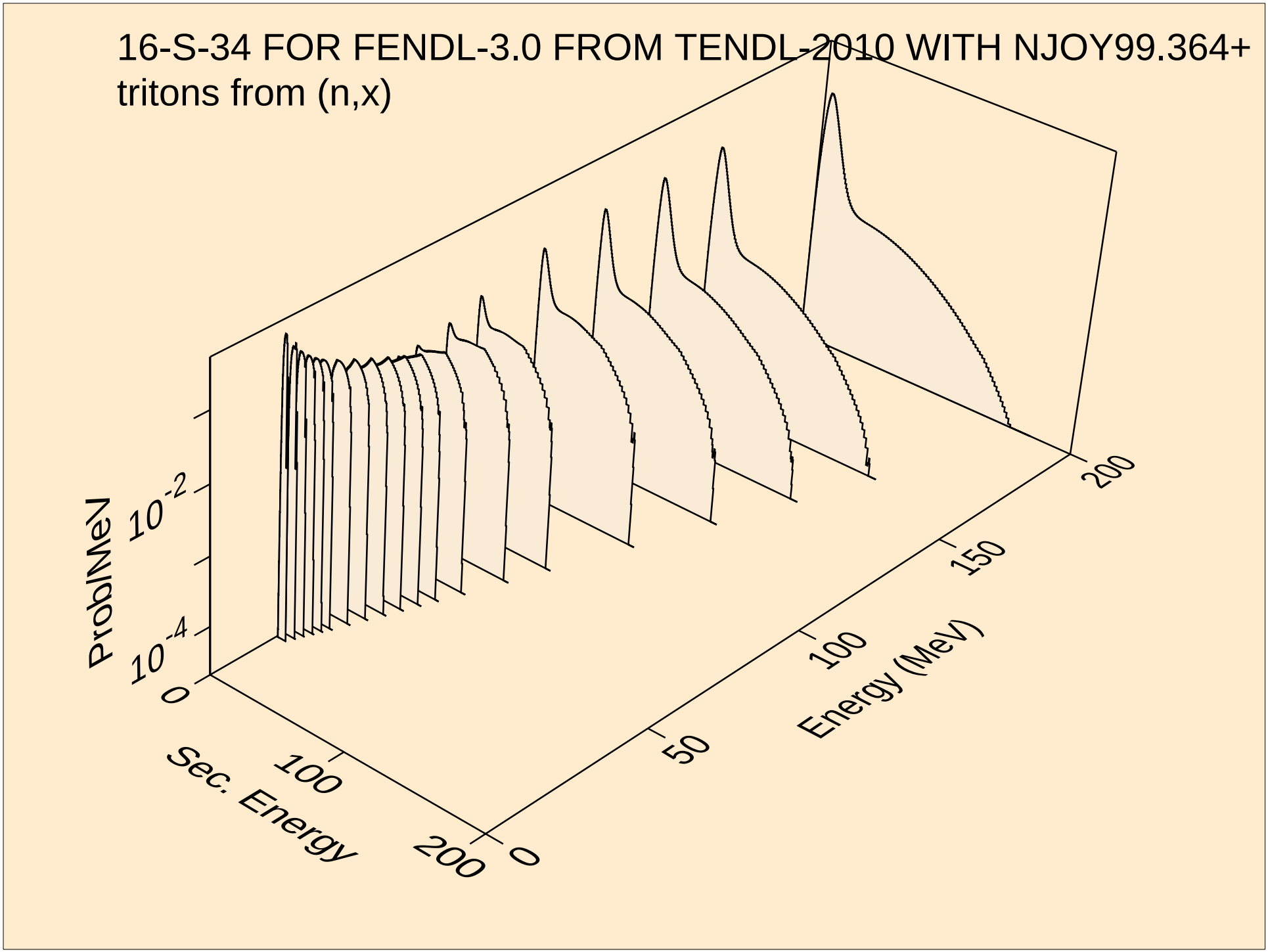

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,p*0) proton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

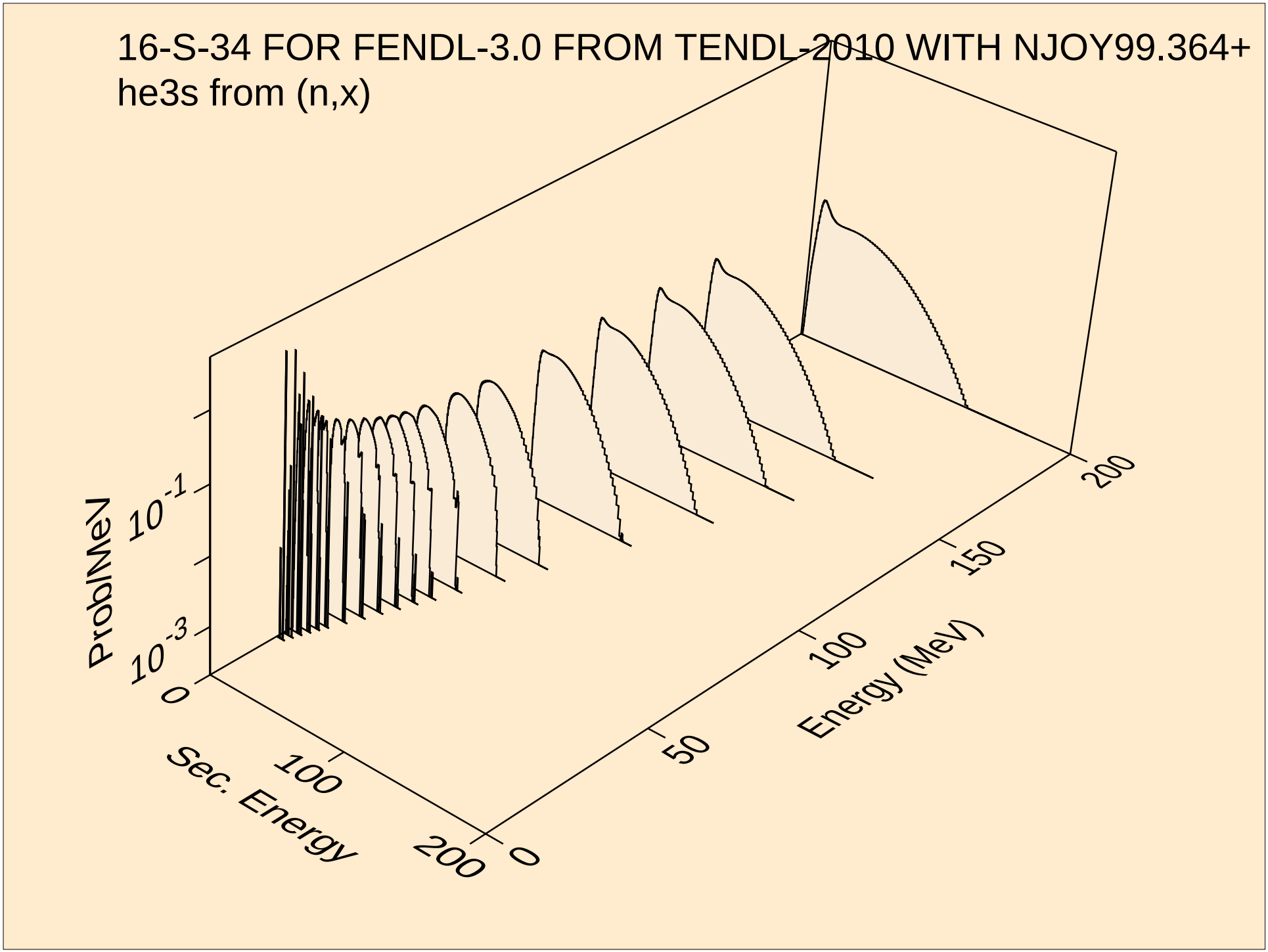

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,p*1) proton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

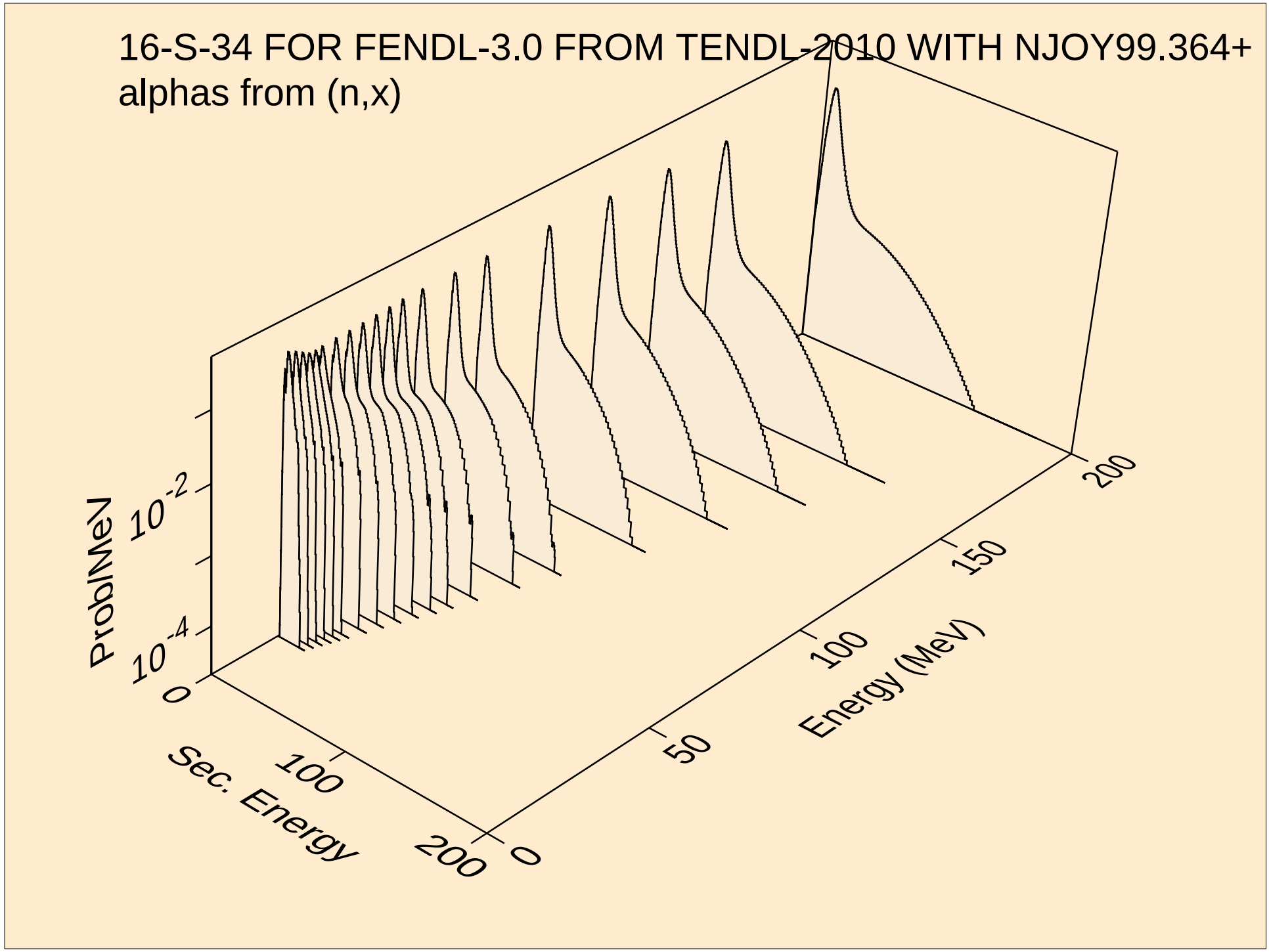

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
protons from (n,p*c)
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
Energy (MeV)
4
6
8
10
12
14
16
18
20

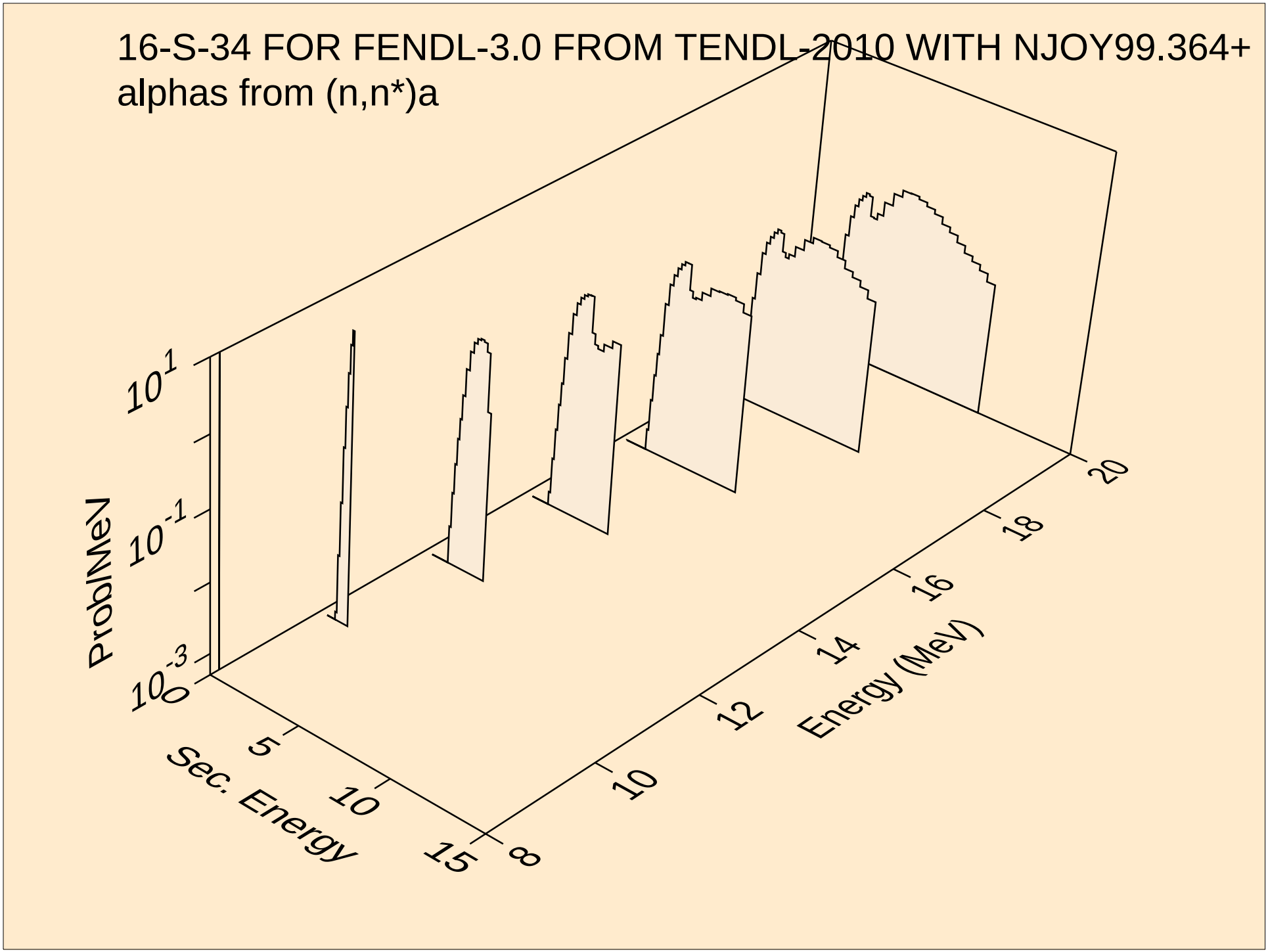

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
deuterons from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

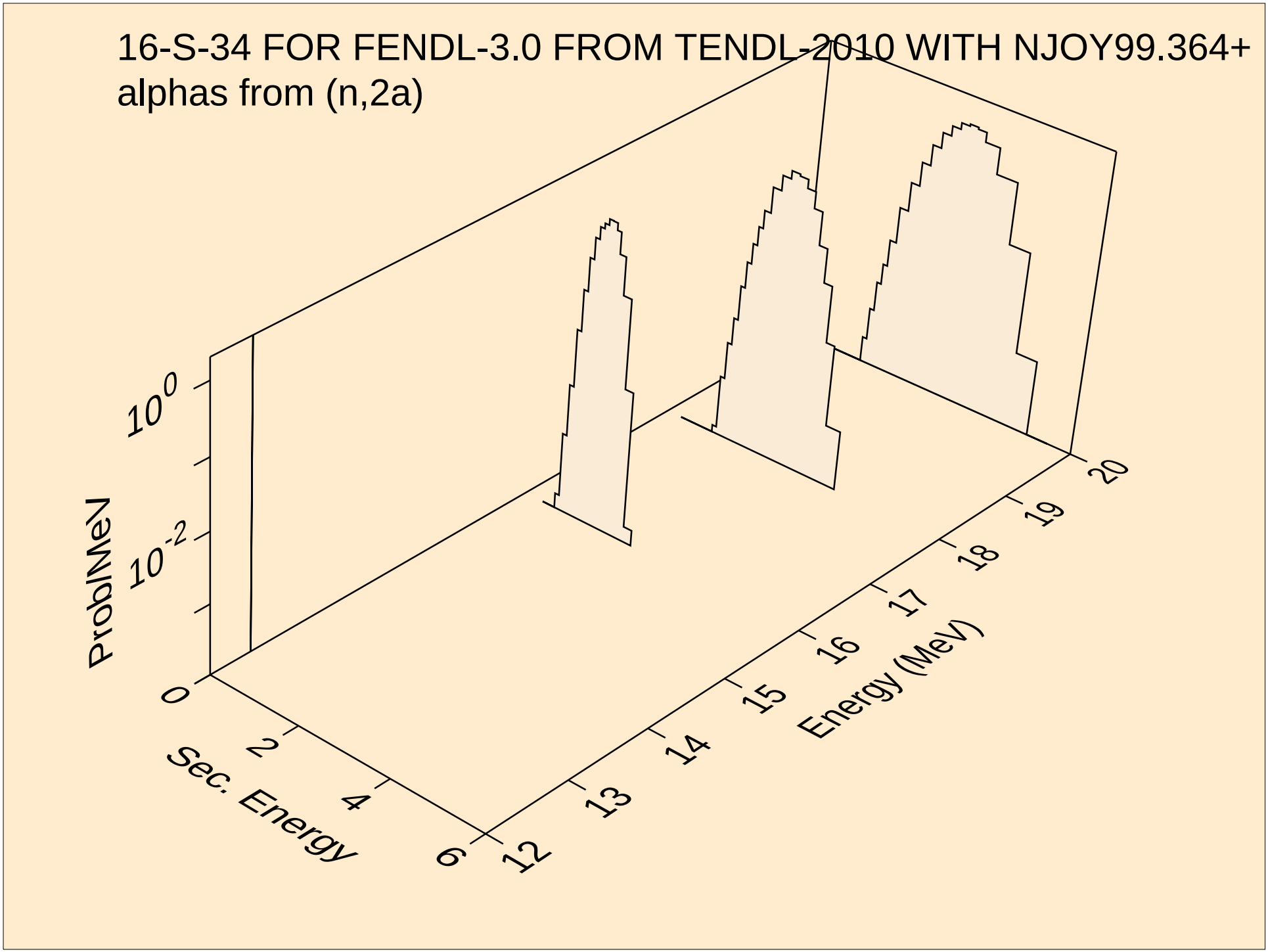

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
deuterons from (n,n*)d
Prob/MeV
10^0
10^-2
200
400
600
800
Sec. Energy
*10^-3
19.3
19.4
19.5
19.6
19.7
19.8
19.9
20.0
Energy (MeV)

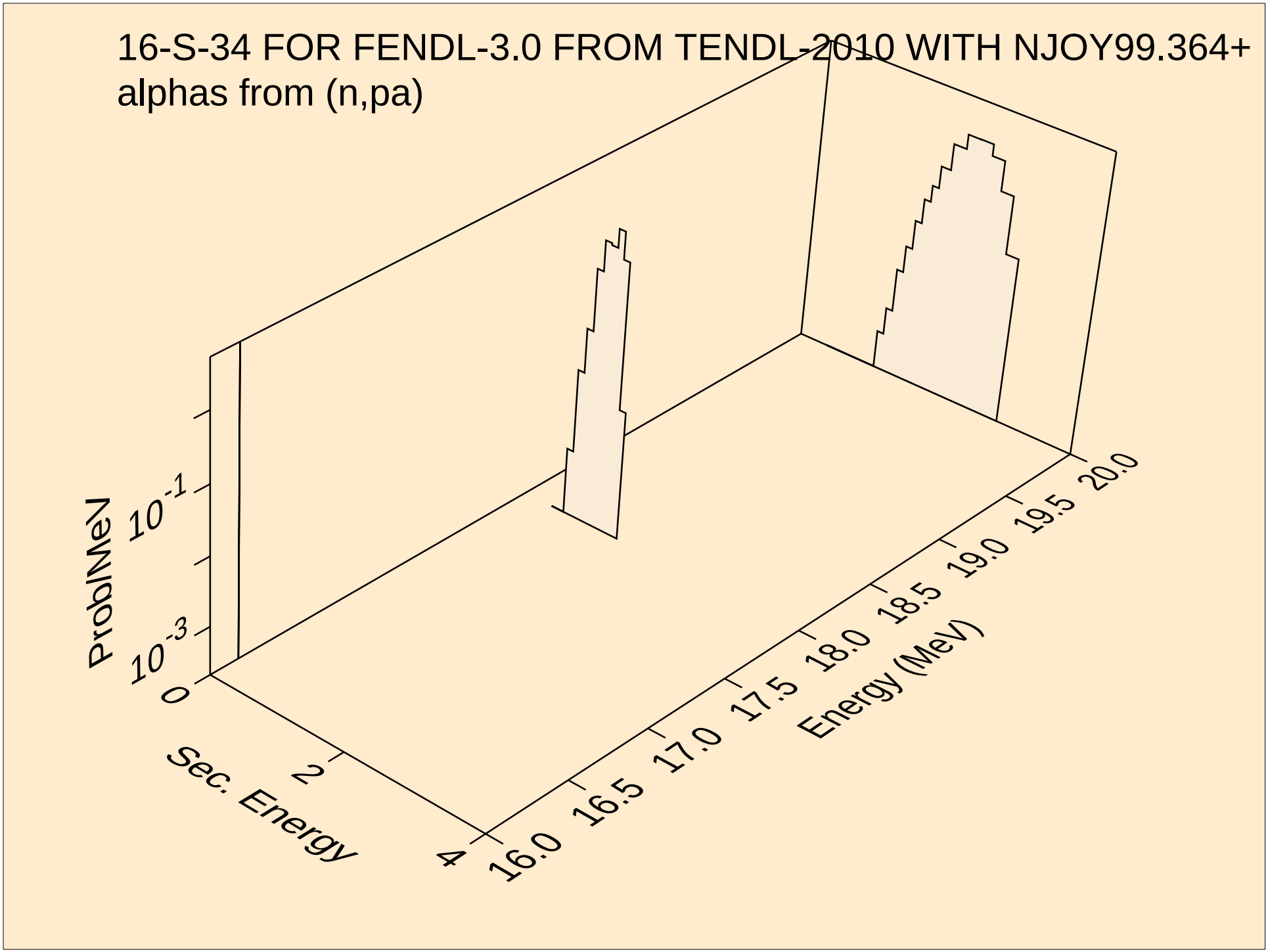

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
tritons from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

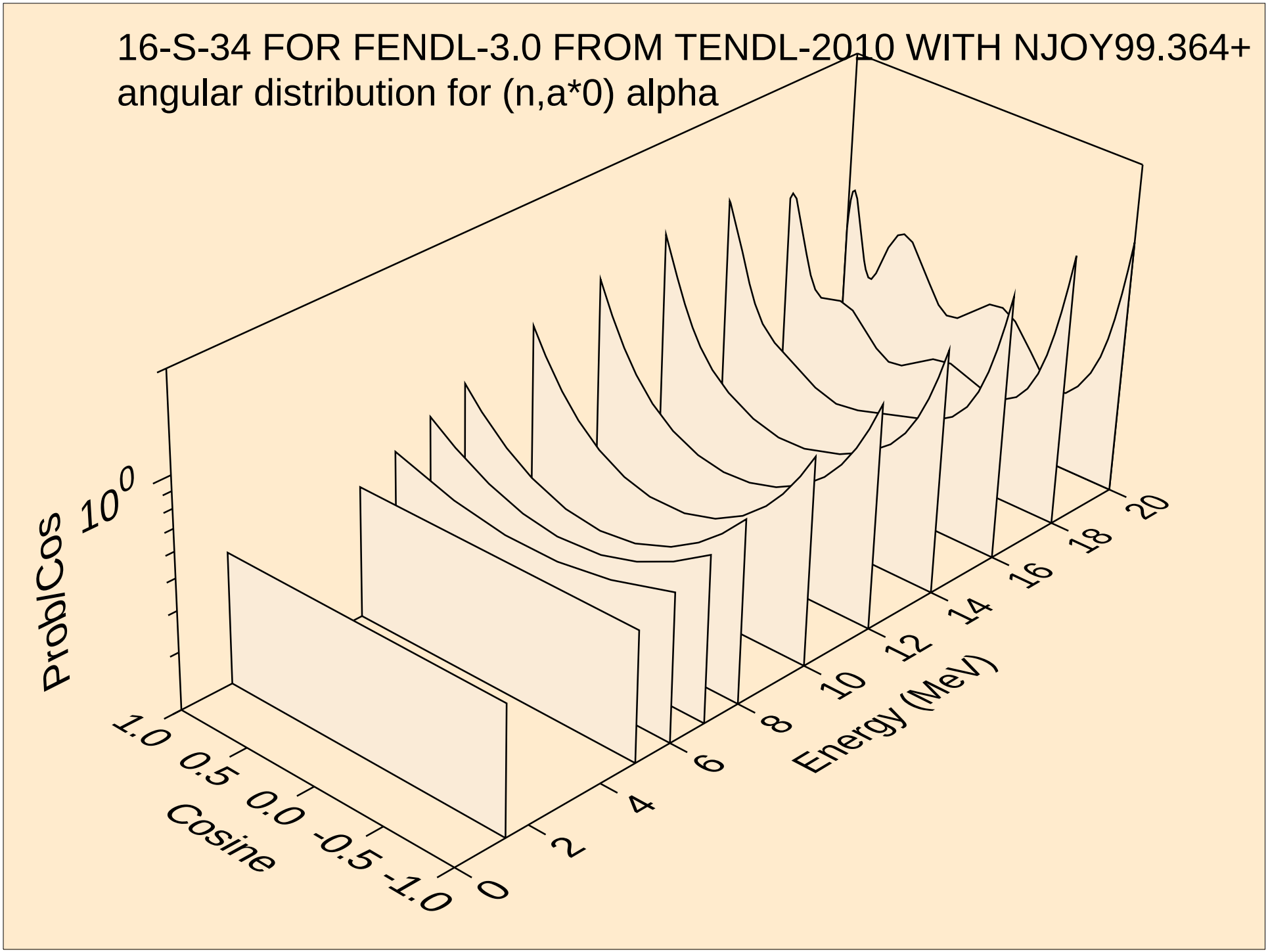

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
he3s from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

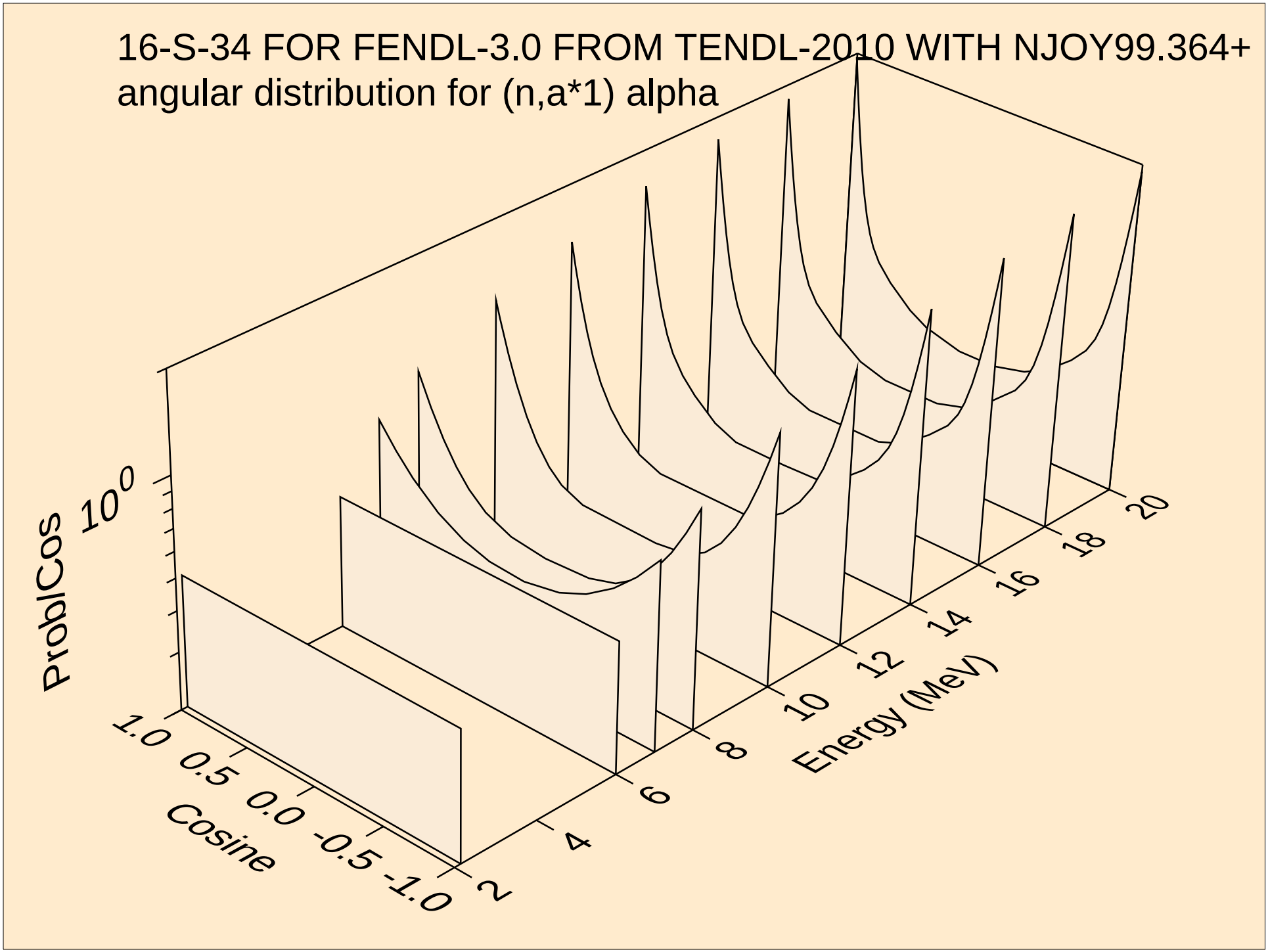

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
alphas from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

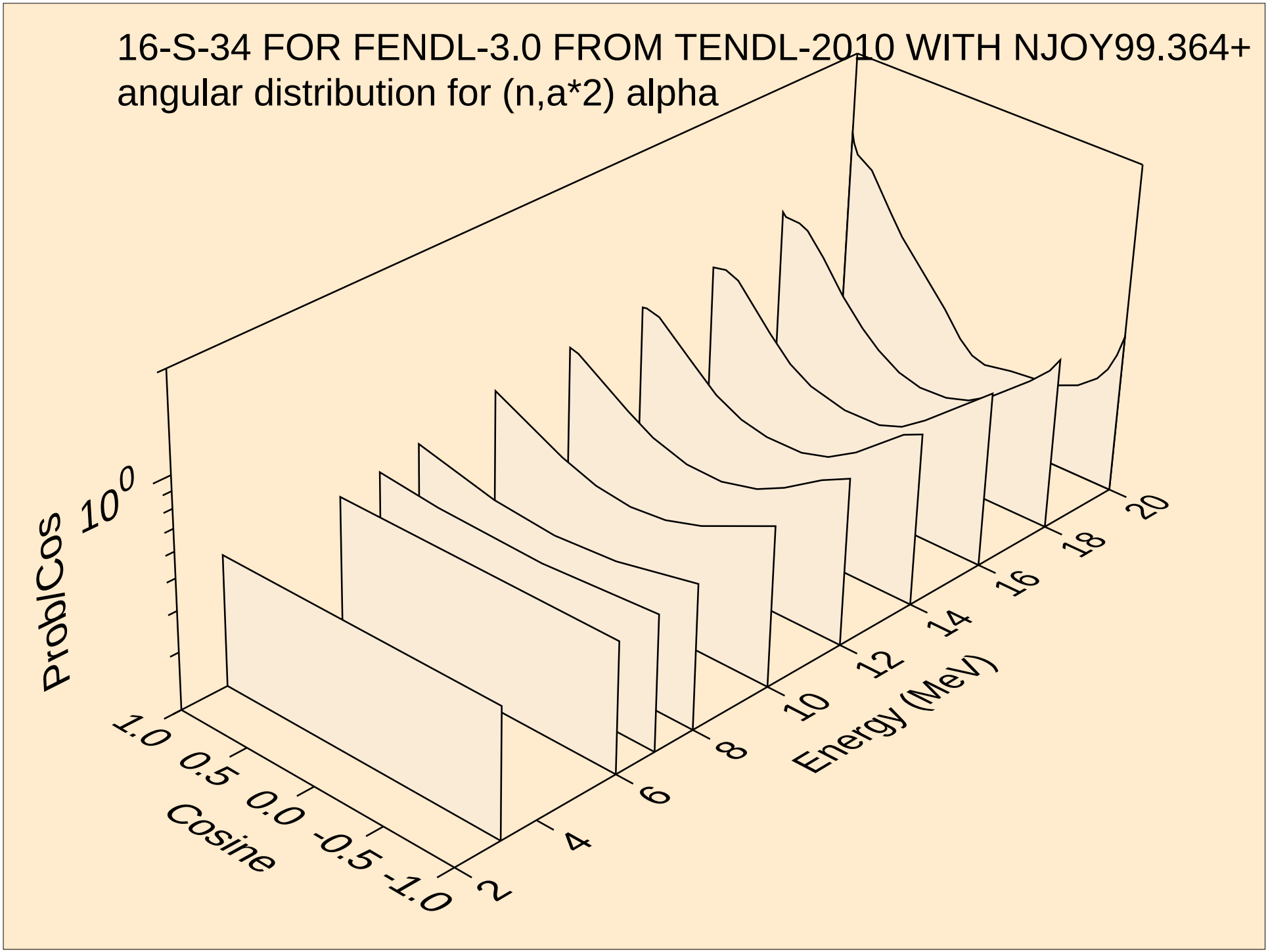

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
alphas from (n,n*)a
Prob/MeV
10^1
10^-1
10^-3
0
5
10
15
Sec. Energy
8
10
12
14
16
18
20
Energy (MeV)

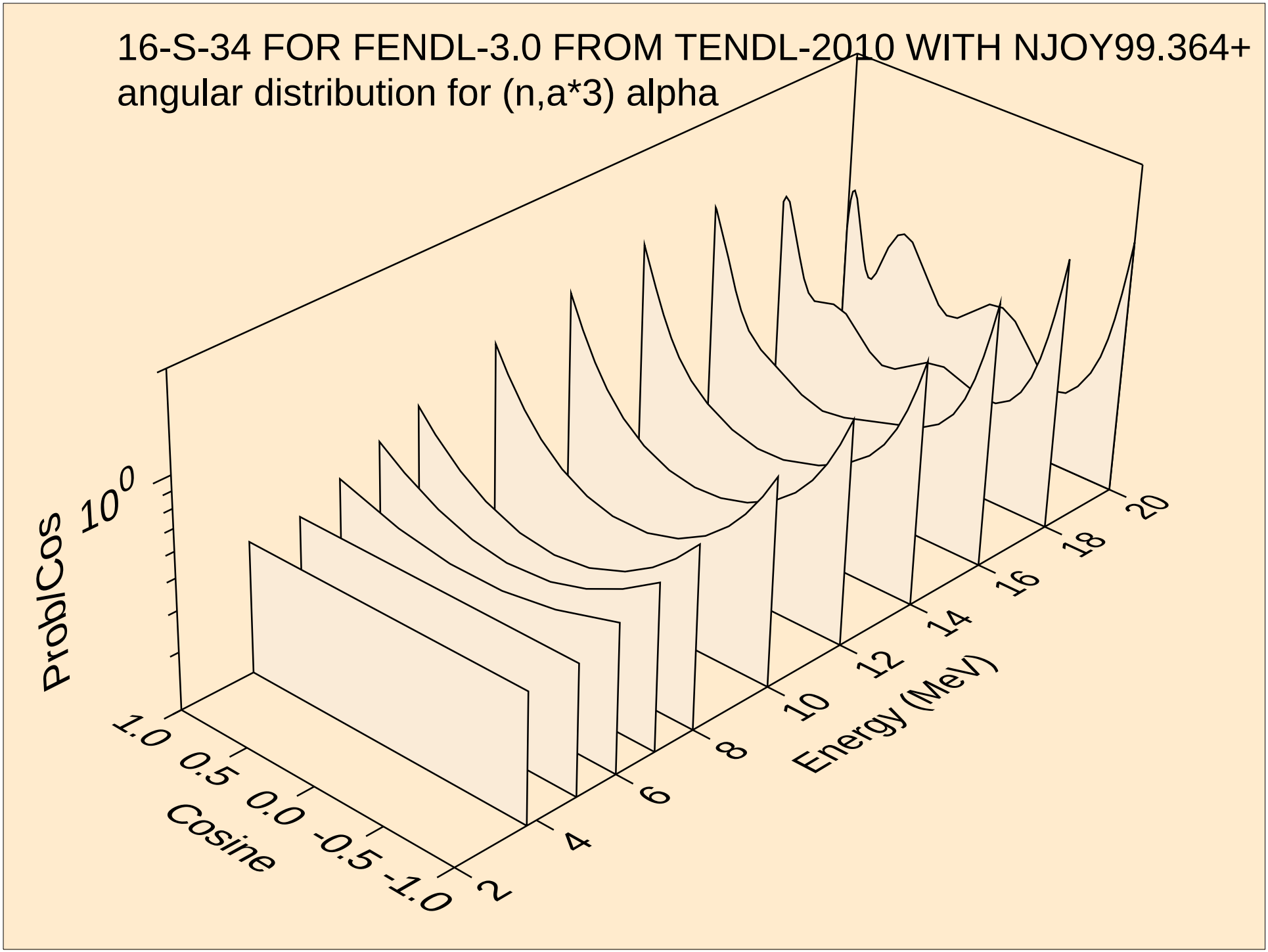

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
alphas from (n,2a)
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
Sec. Energy
12
13
14
15
16
17
18
19
20
Energy (MeV)

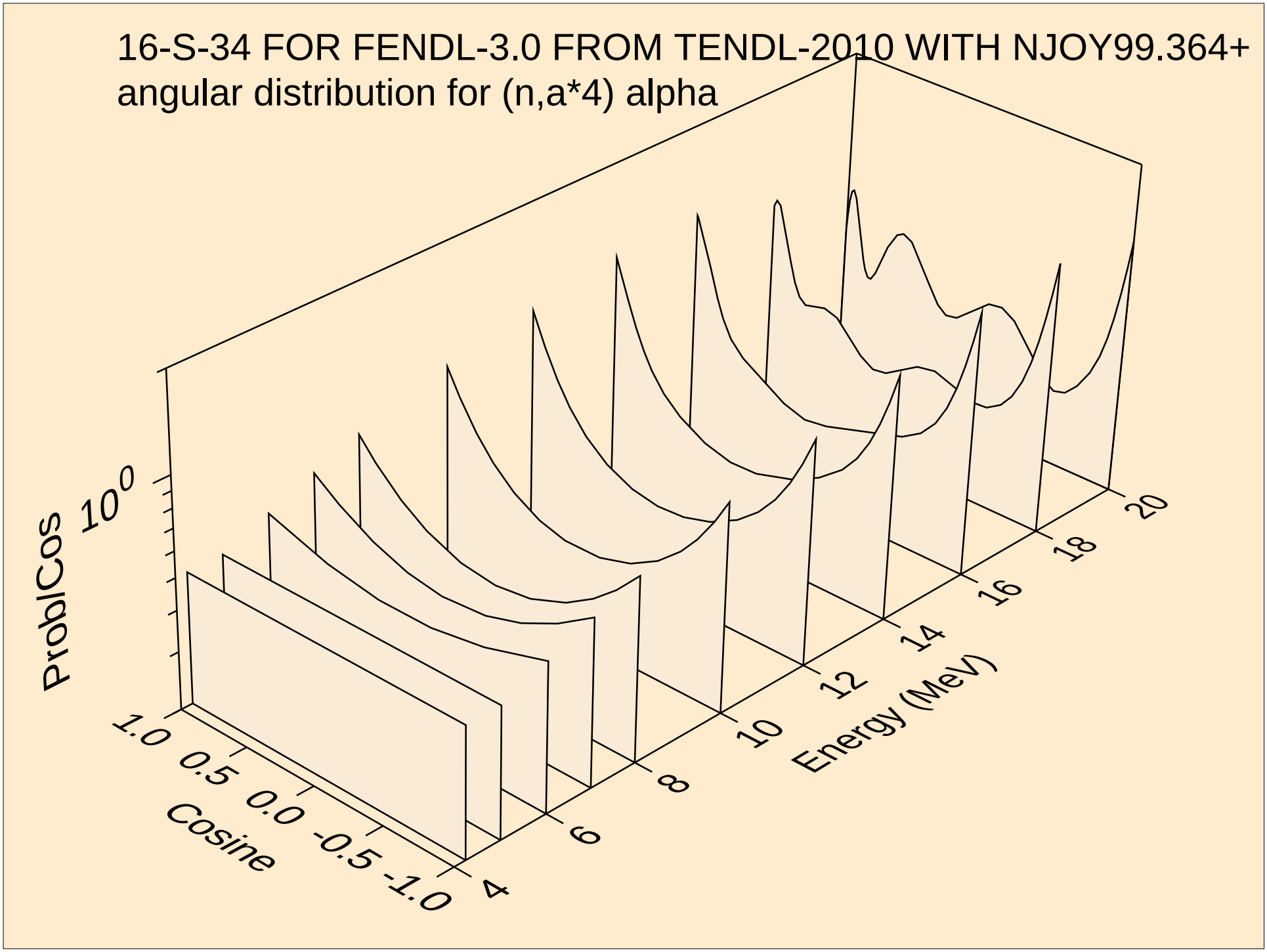

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
alphas from (n,pa)
Prob/MeV
10-1
10-3
0
Sec. Energy
2
4
16.0
16.5
17.0
17.5
18.0
18.5
19.0
19.5
20.0
Energy (MeV)

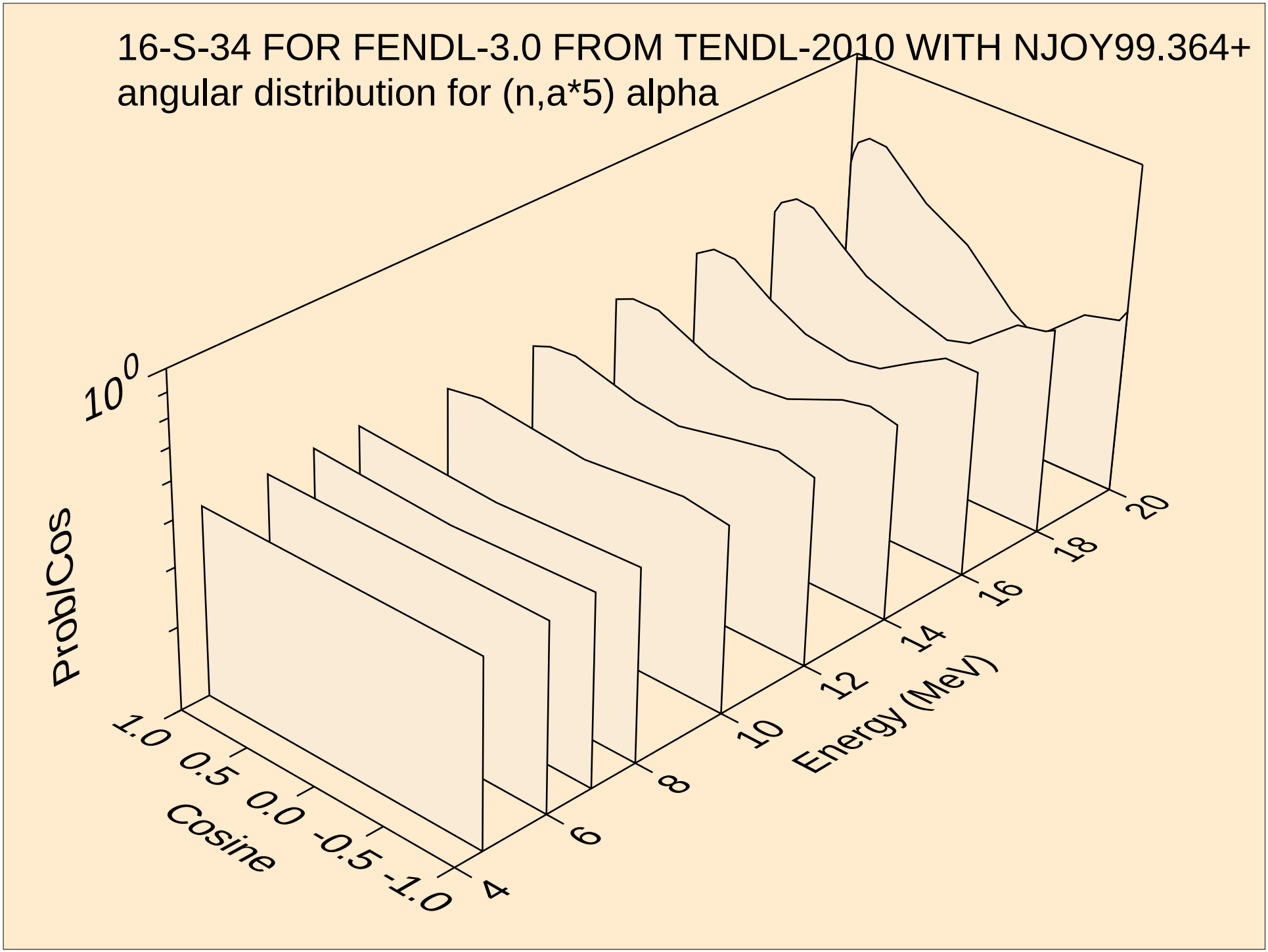

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,a*0) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

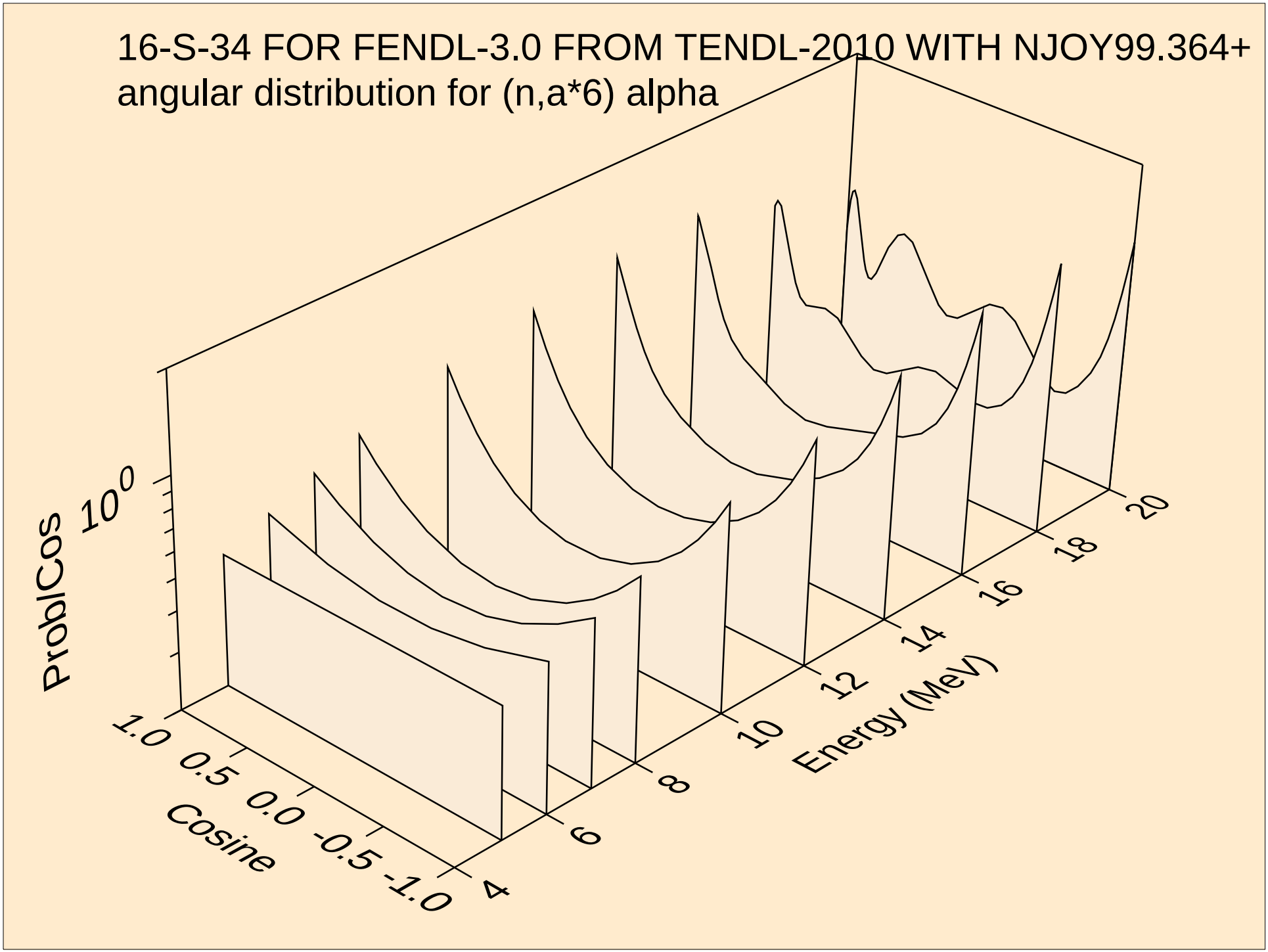

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,a*1) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

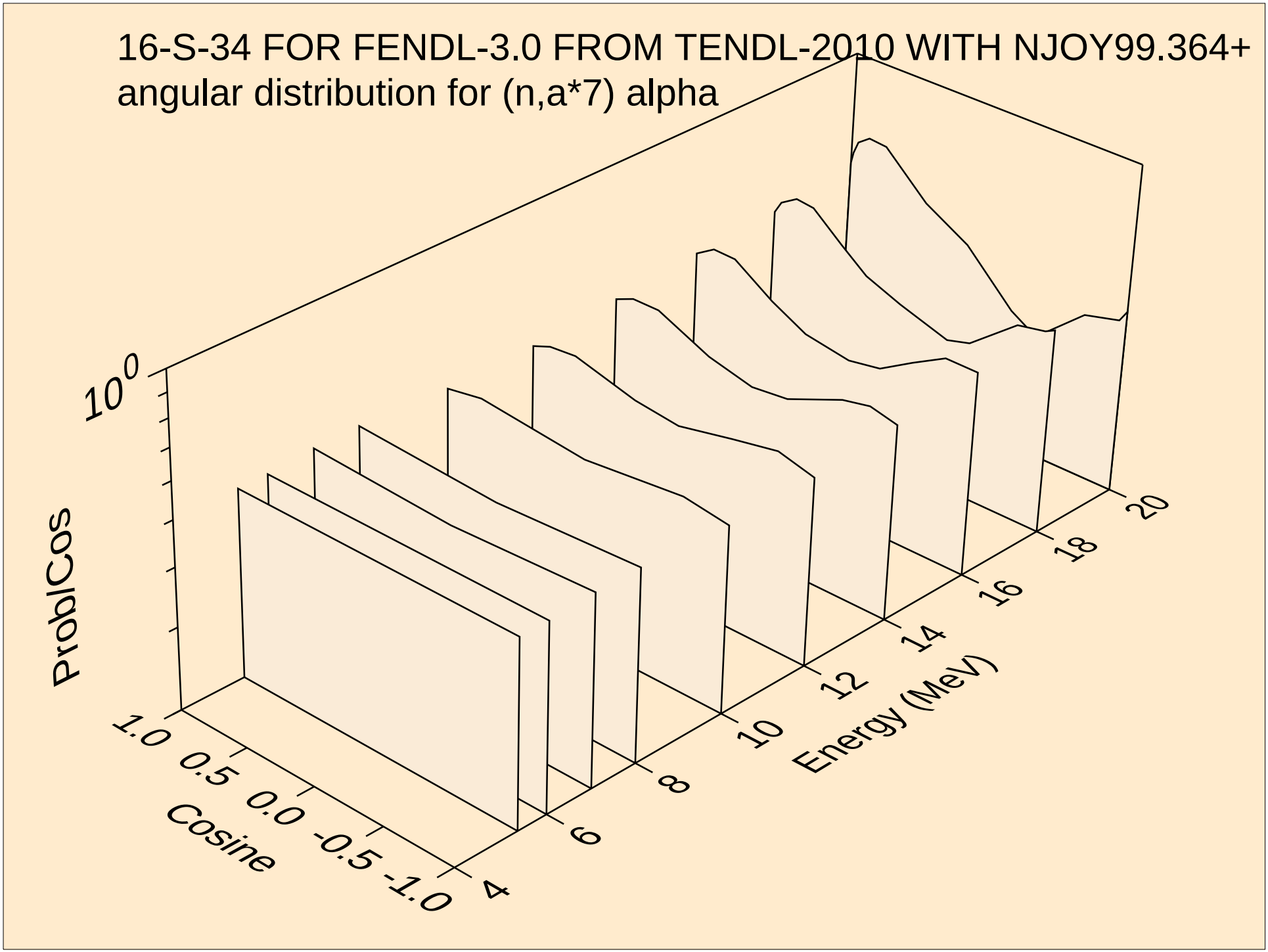

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,a*2) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

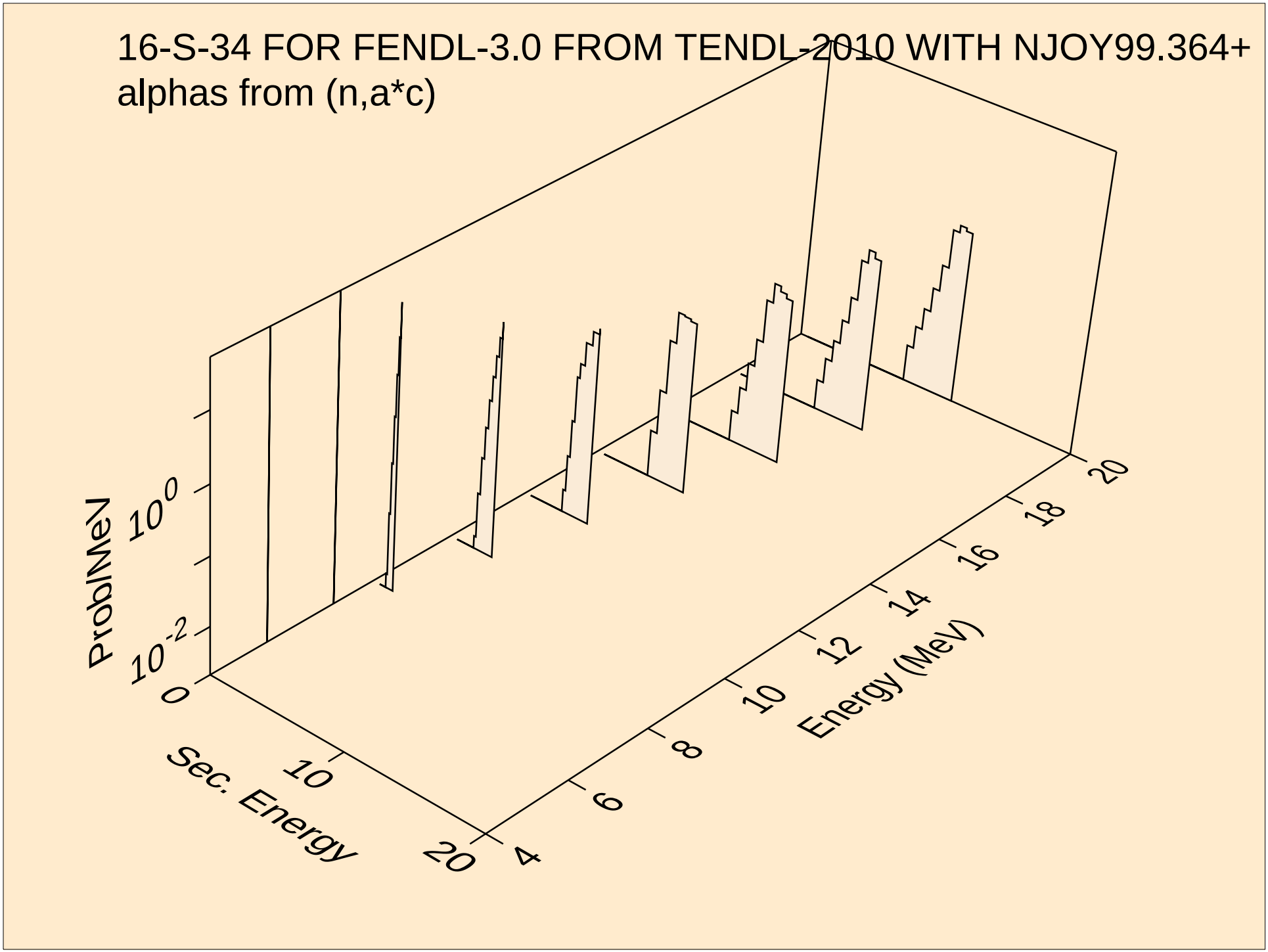

16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,a*3) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,a*4) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)


16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,a*5) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)


16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,a*6) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)


16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
angular distribution for (n,a*7) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)


16-S-34 FOR FENDL-3.0 FROM TENDL-2010 WITH NJOY99.364+
alphas from (n,a*c)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
4
6
8
10
12
14
16
18
20
Energy (MeV)