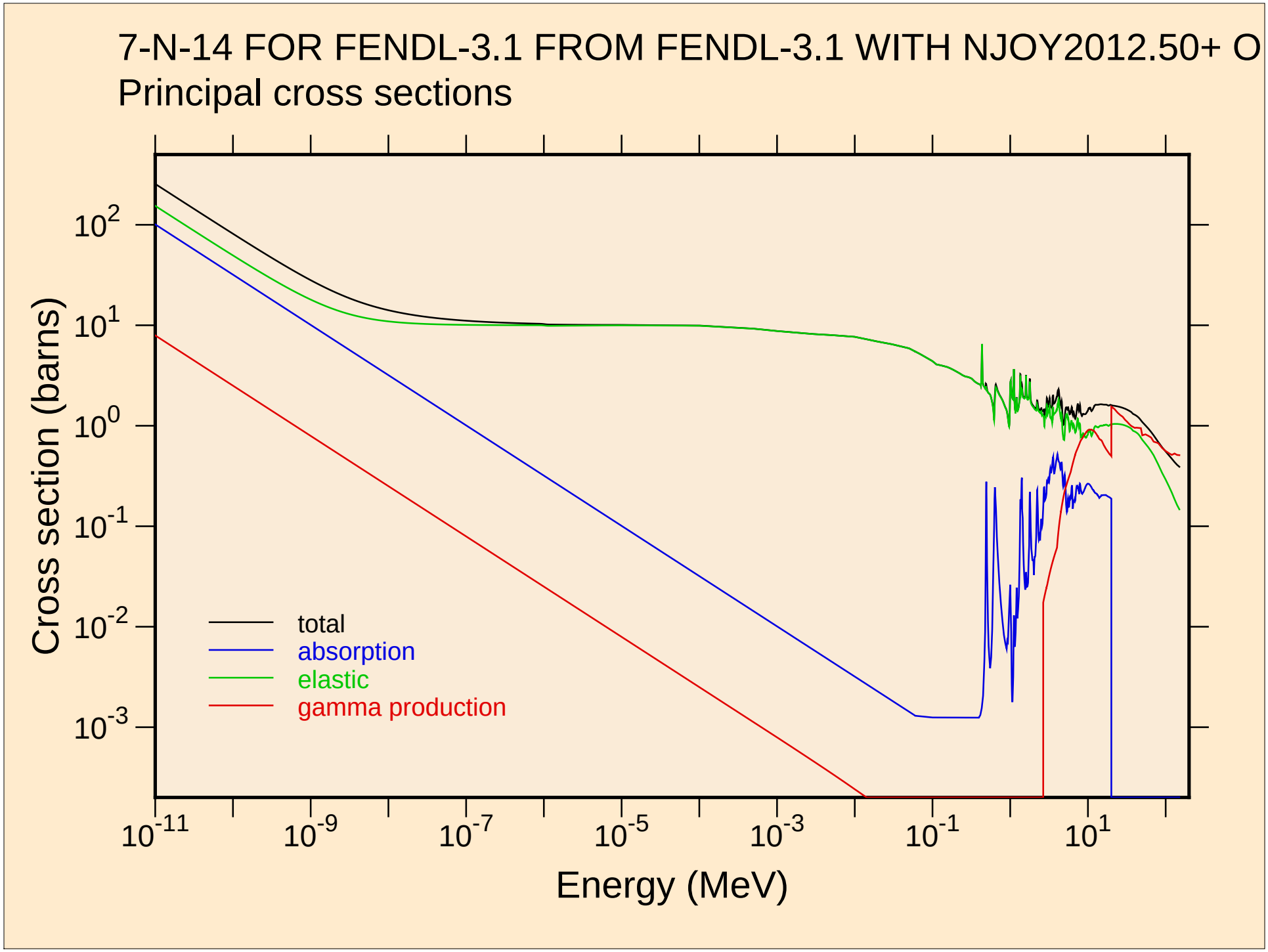
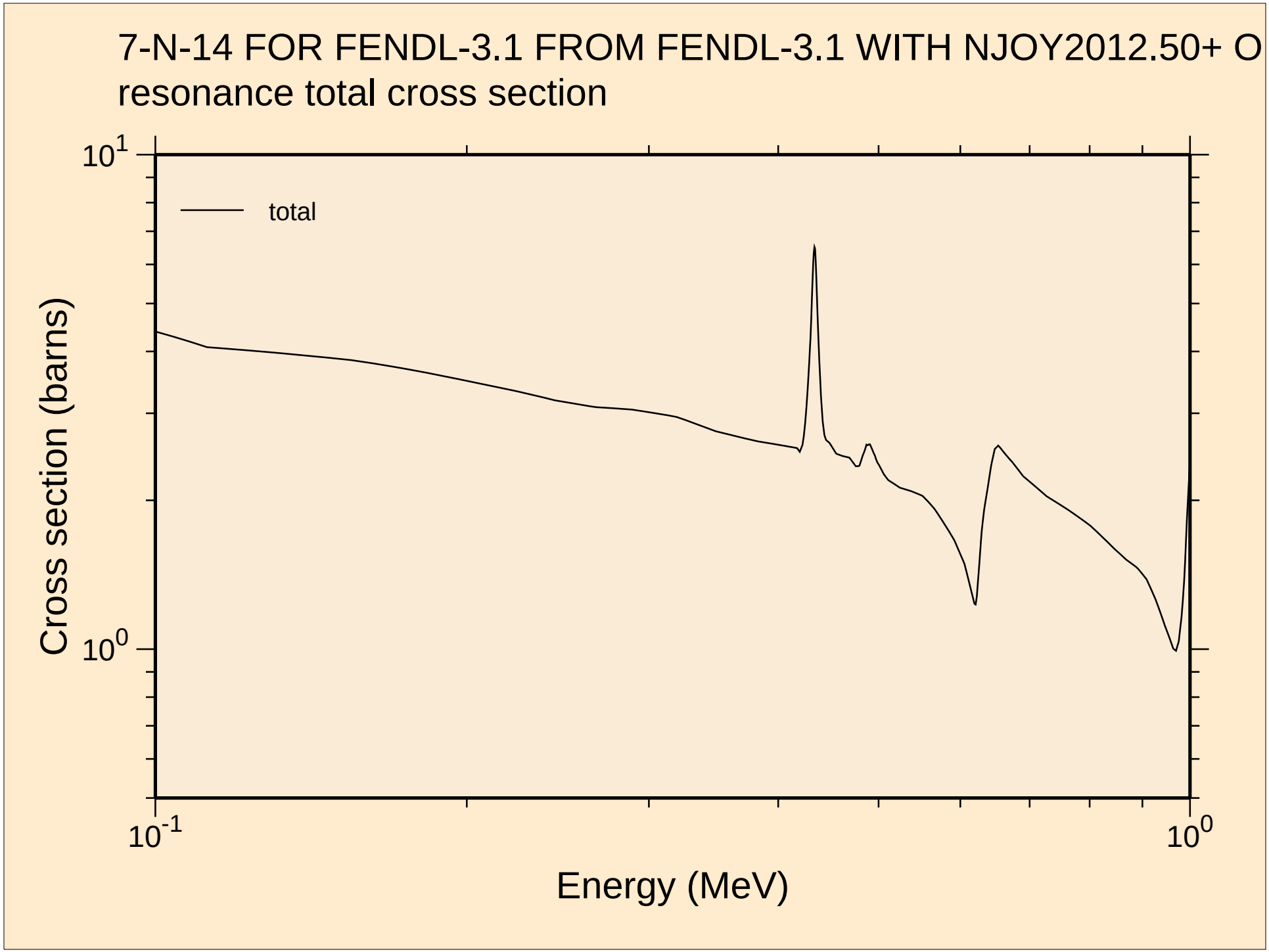
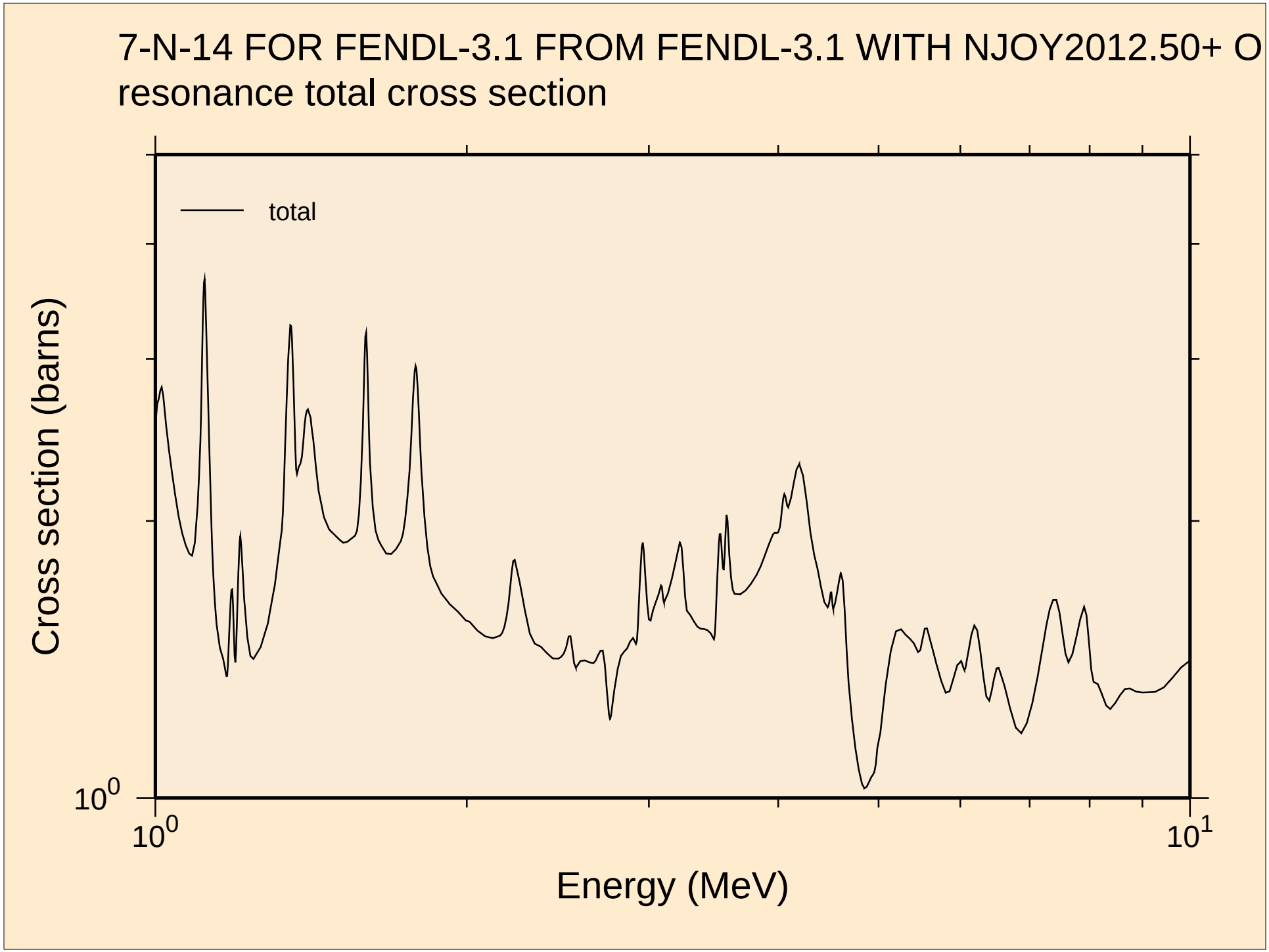
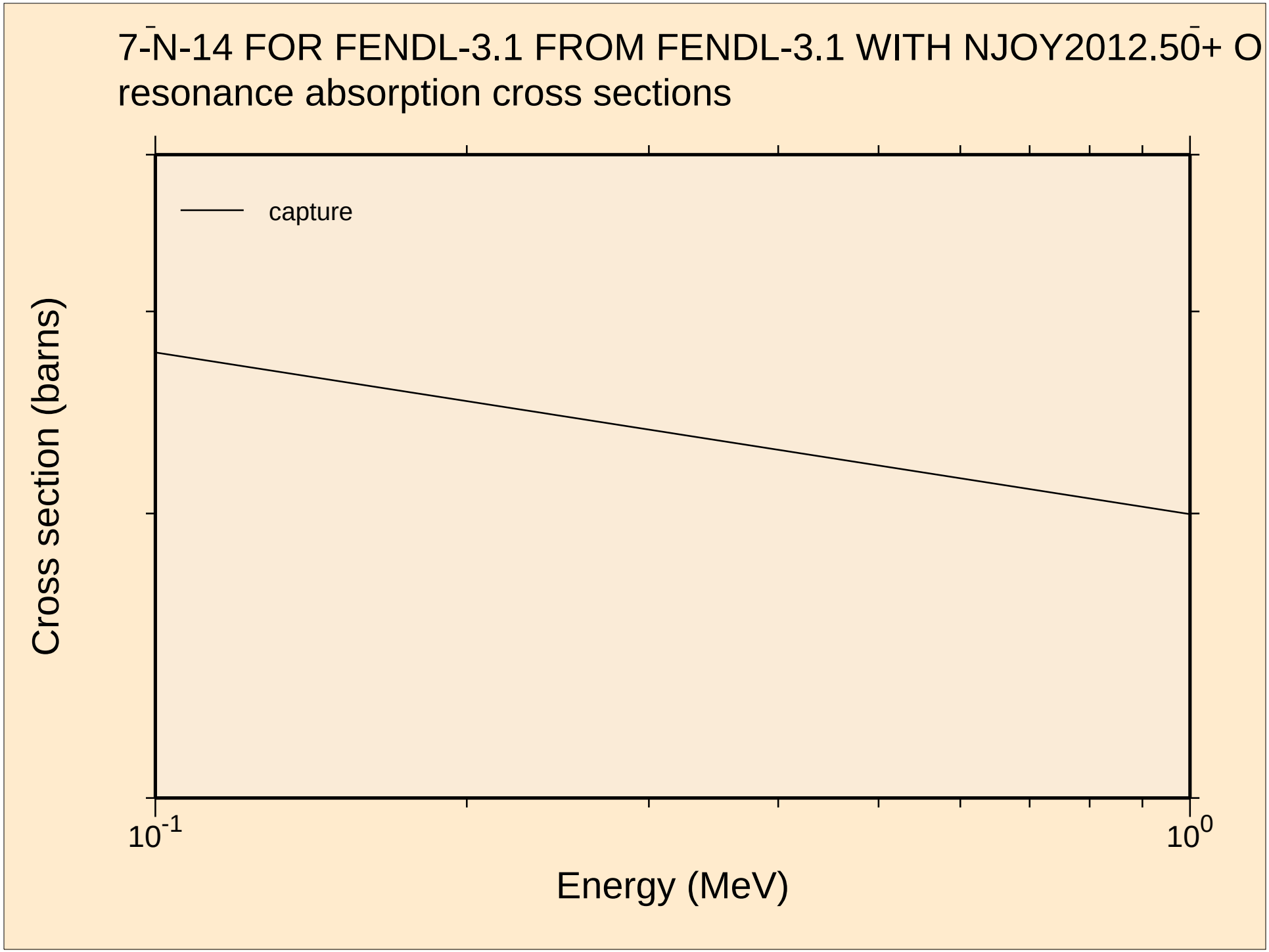
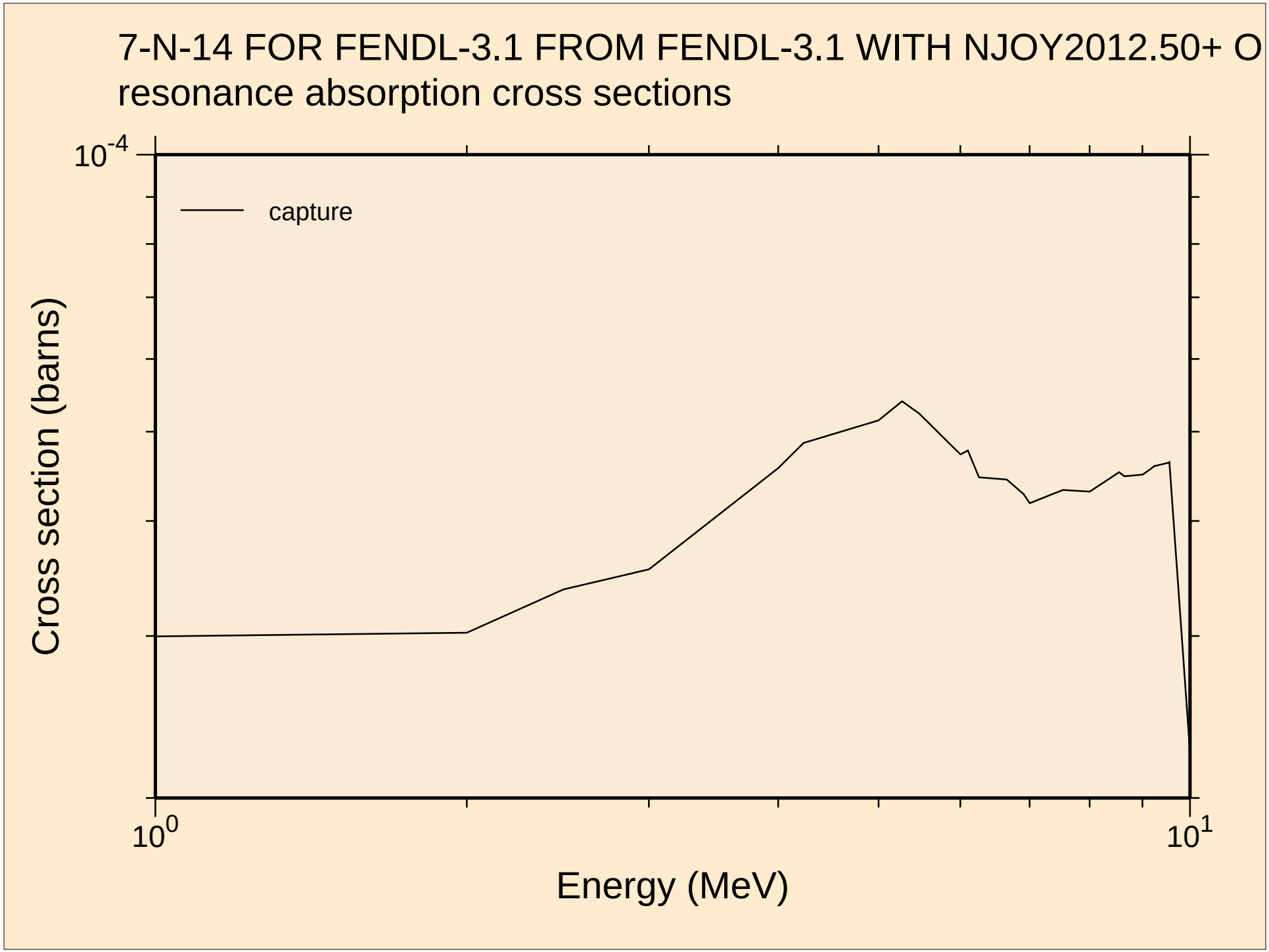
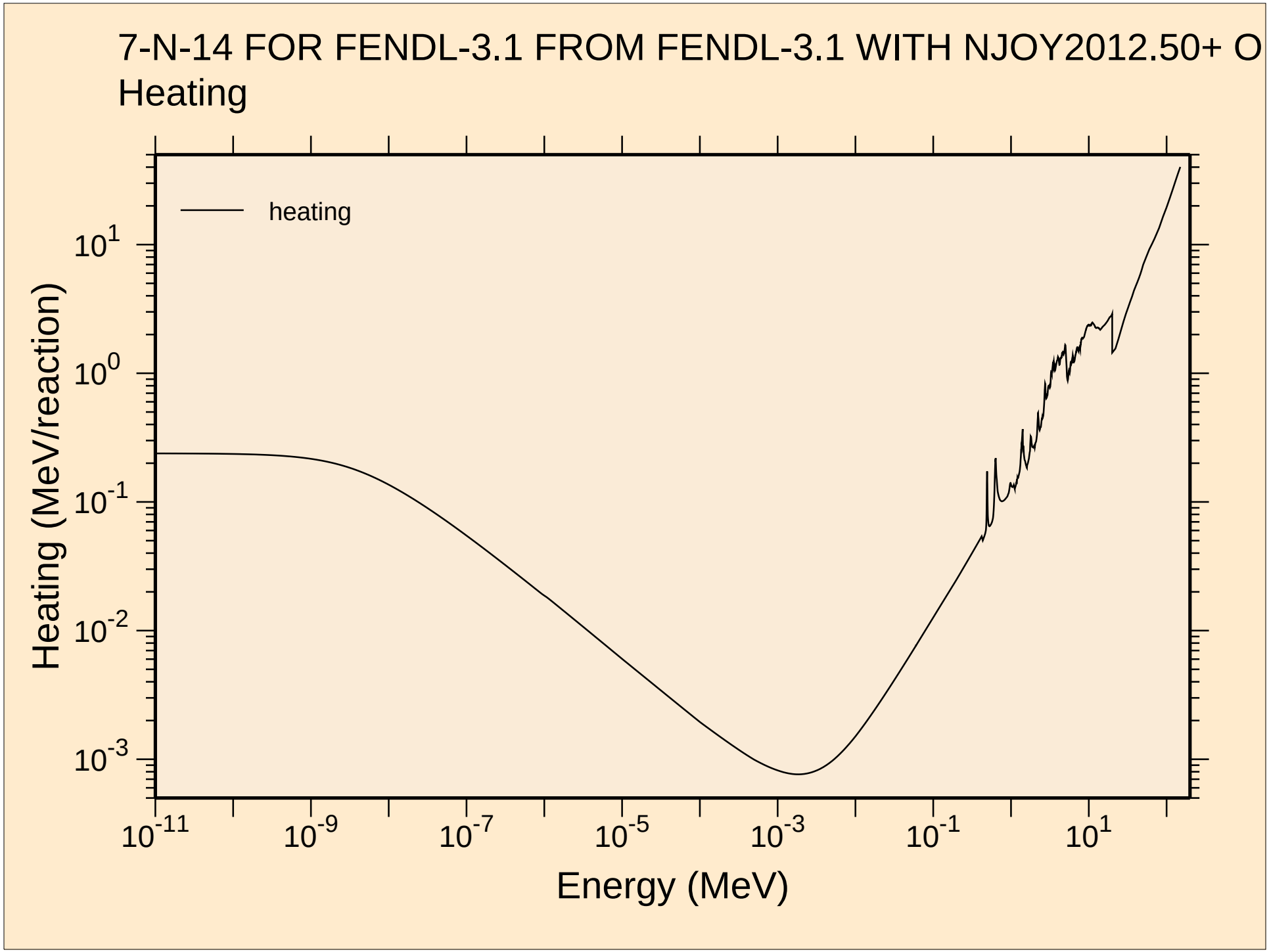

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Principal cross sections
Cross section (barns)
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
total
absorption
elastic
gamma production
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

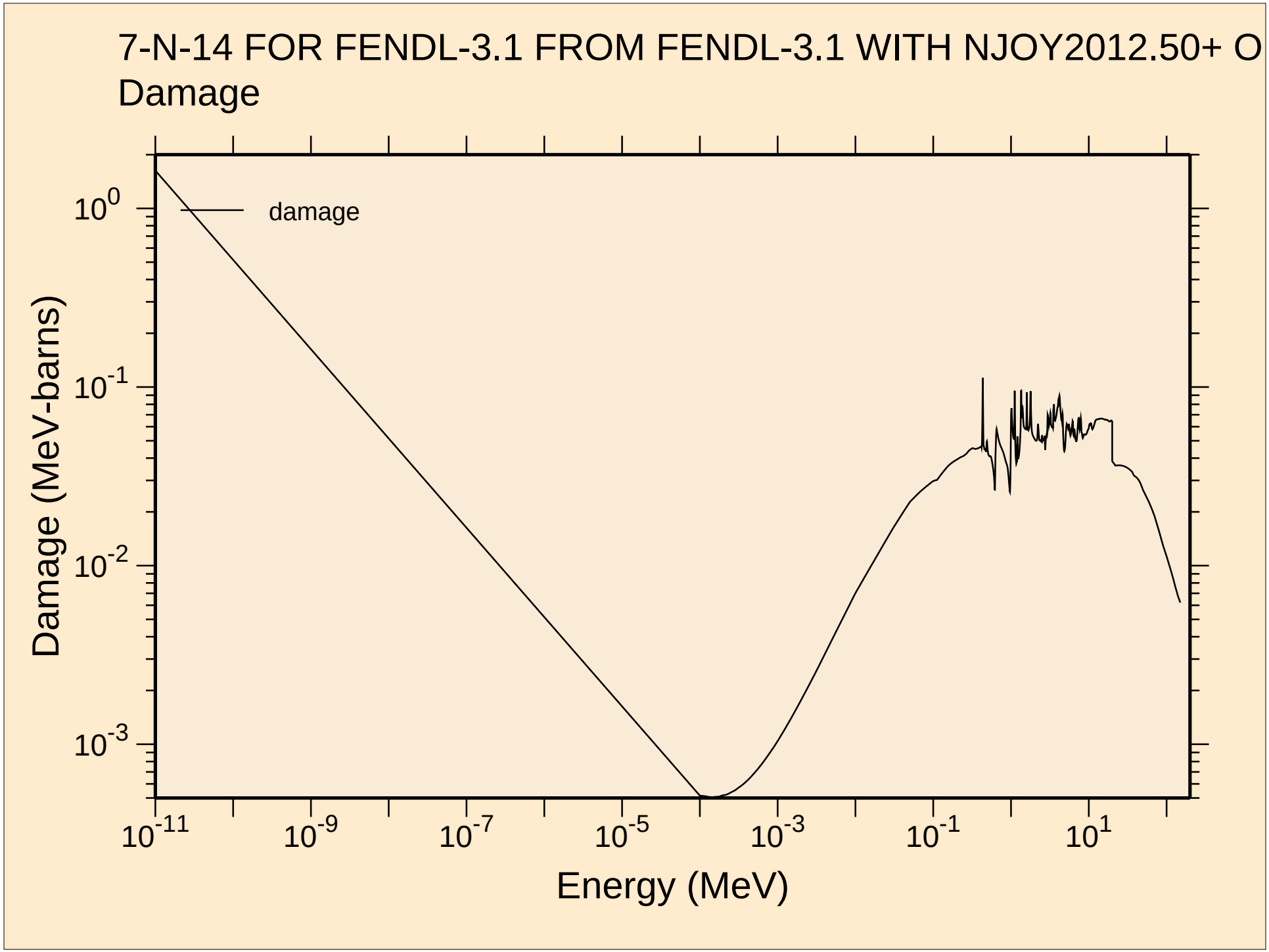

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
resonance total cross section
total
Cross section (barns)
10^1
10^0
10^-1
10^0
Energy (MeV)

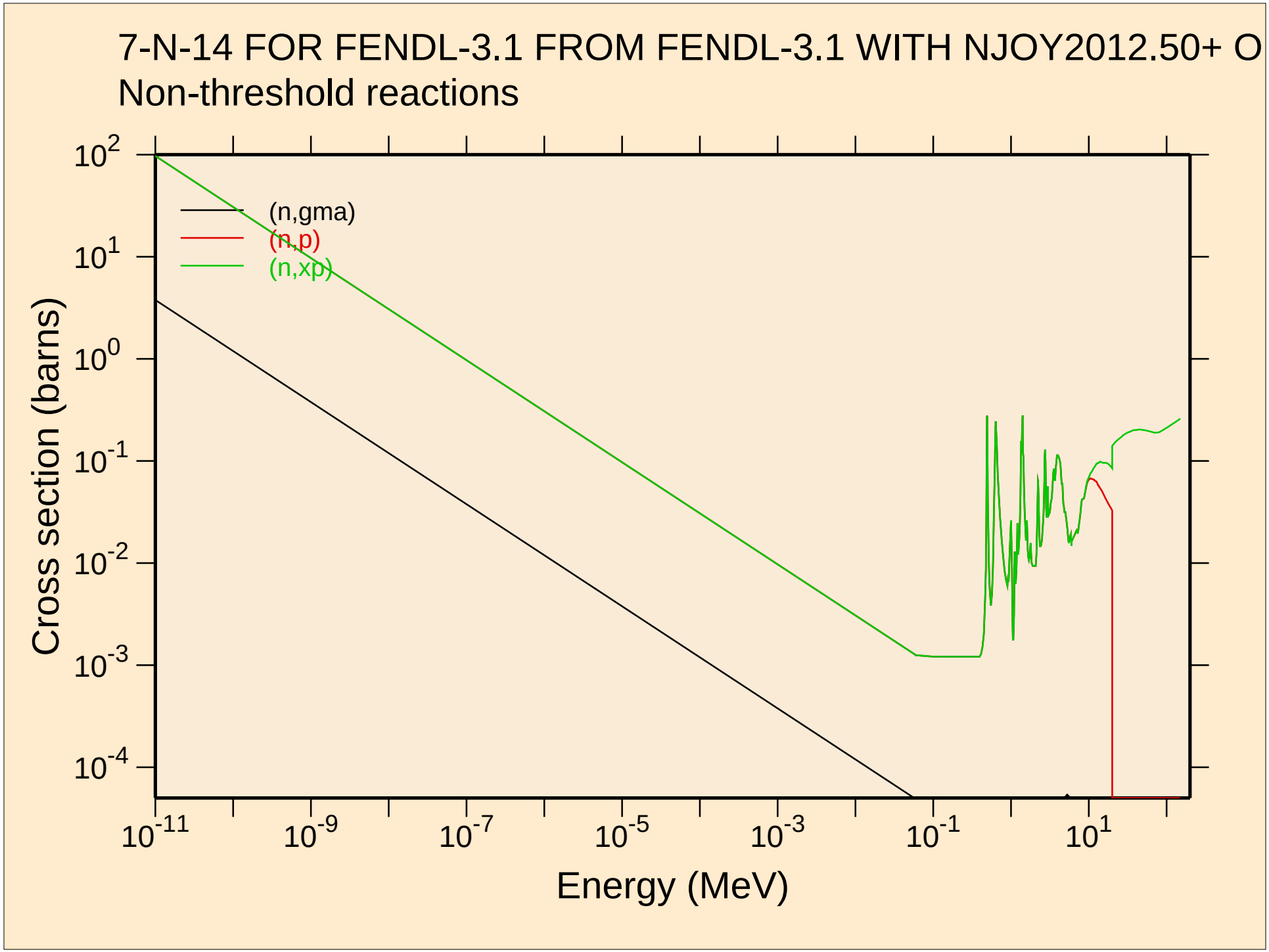

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
resonance total cross section
total
Cross section (barns)
10^0
10^0
10^1
Energy (MeV)

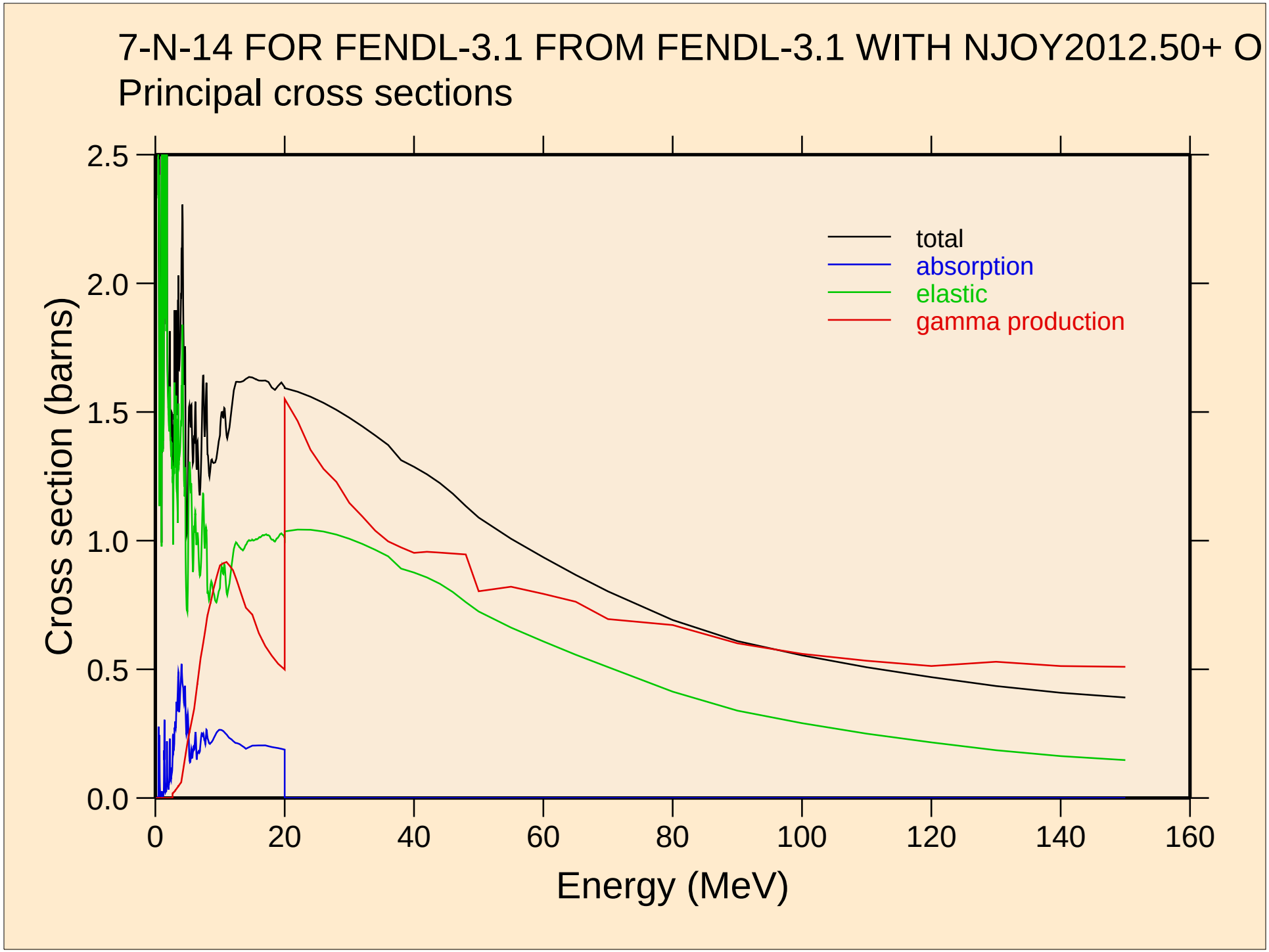

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
resonance absorption cross sections
capture
Cross section (barns)
10^{-1}
10^{0}
Energy (MeV)

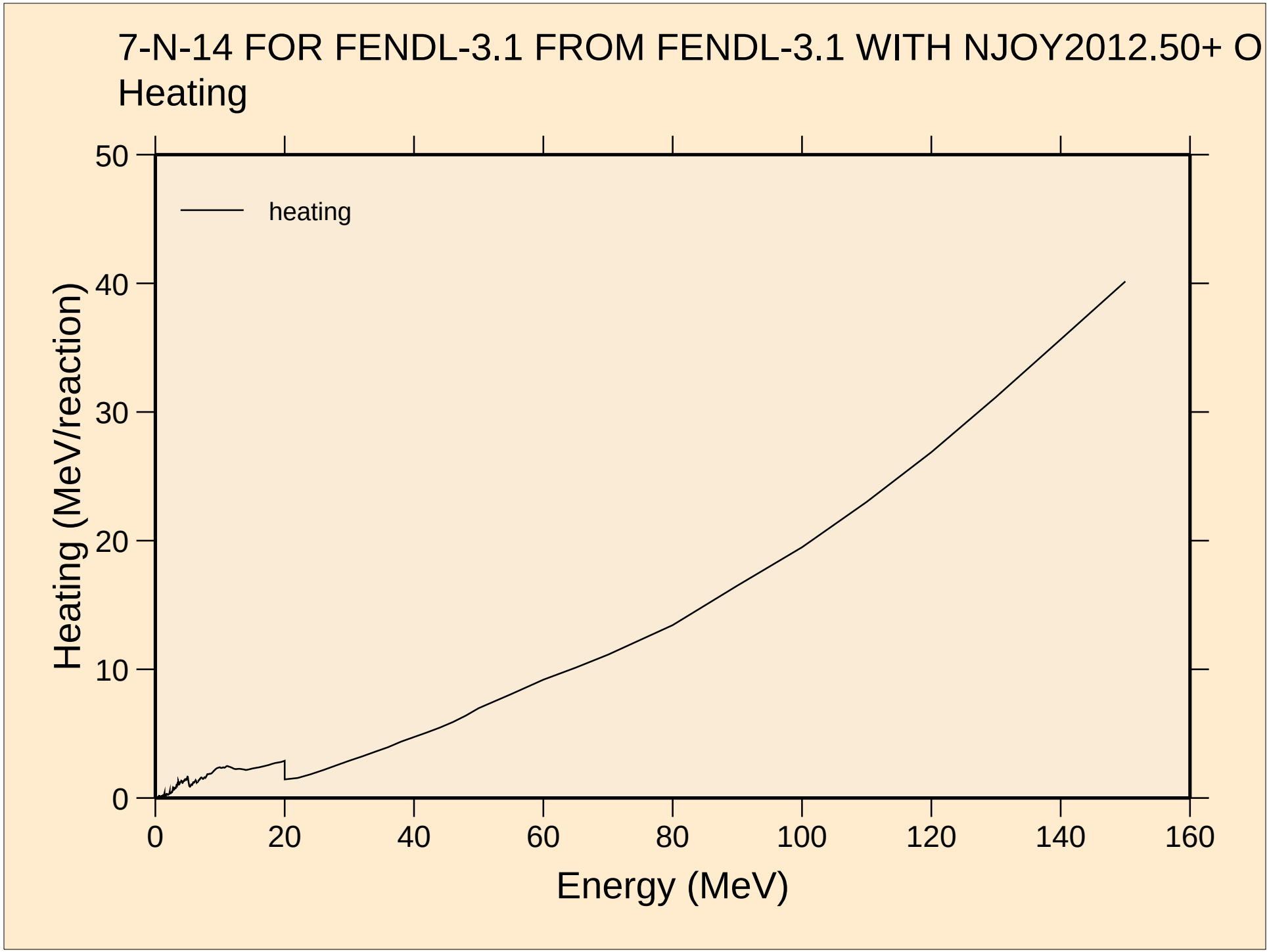

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
resonance absorption cross sections
10-4
capture
Cross section (barns)
100
101
Energy (MeV)

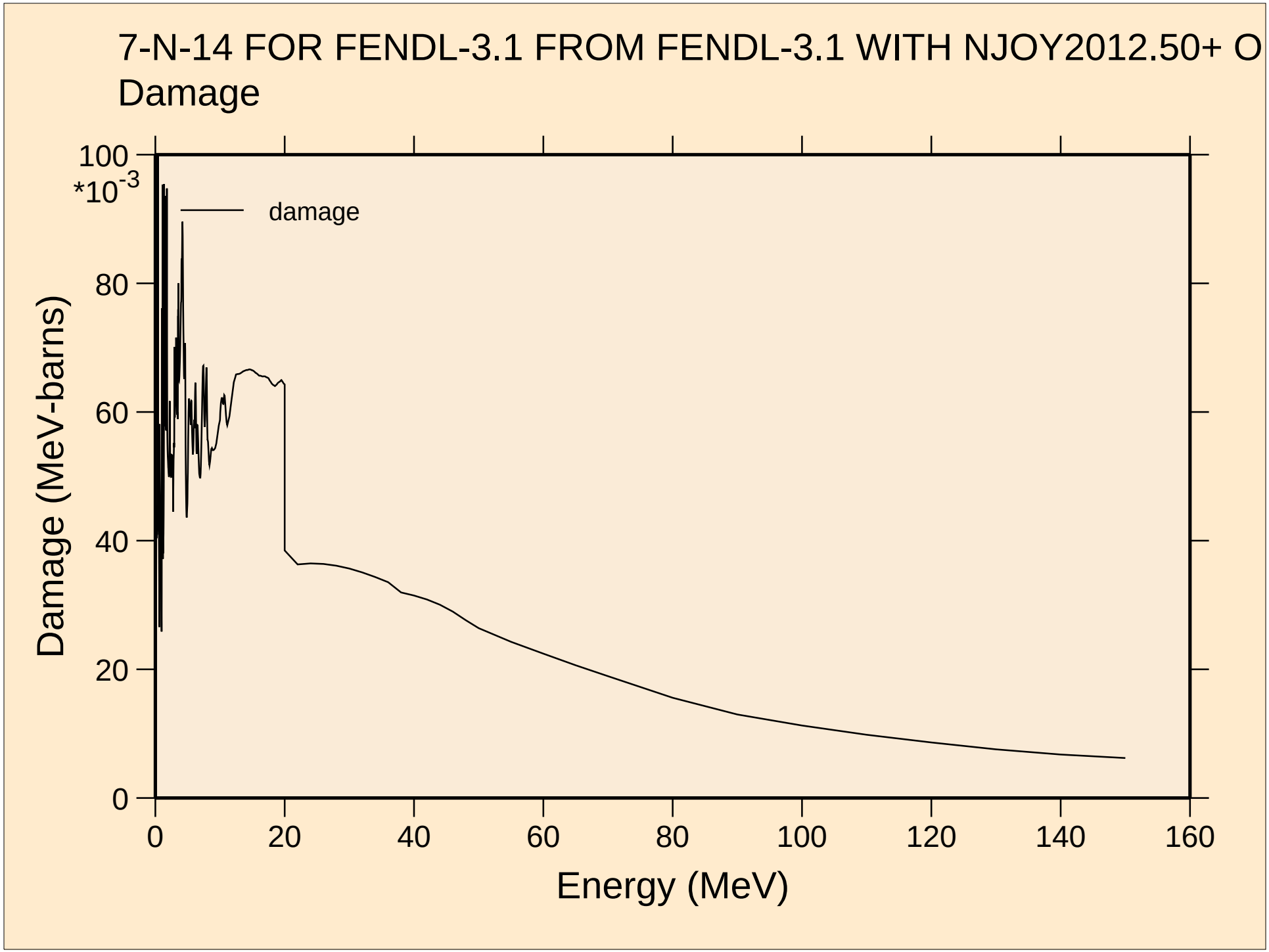

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Heating
heating
Heating (MeV/reaction)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

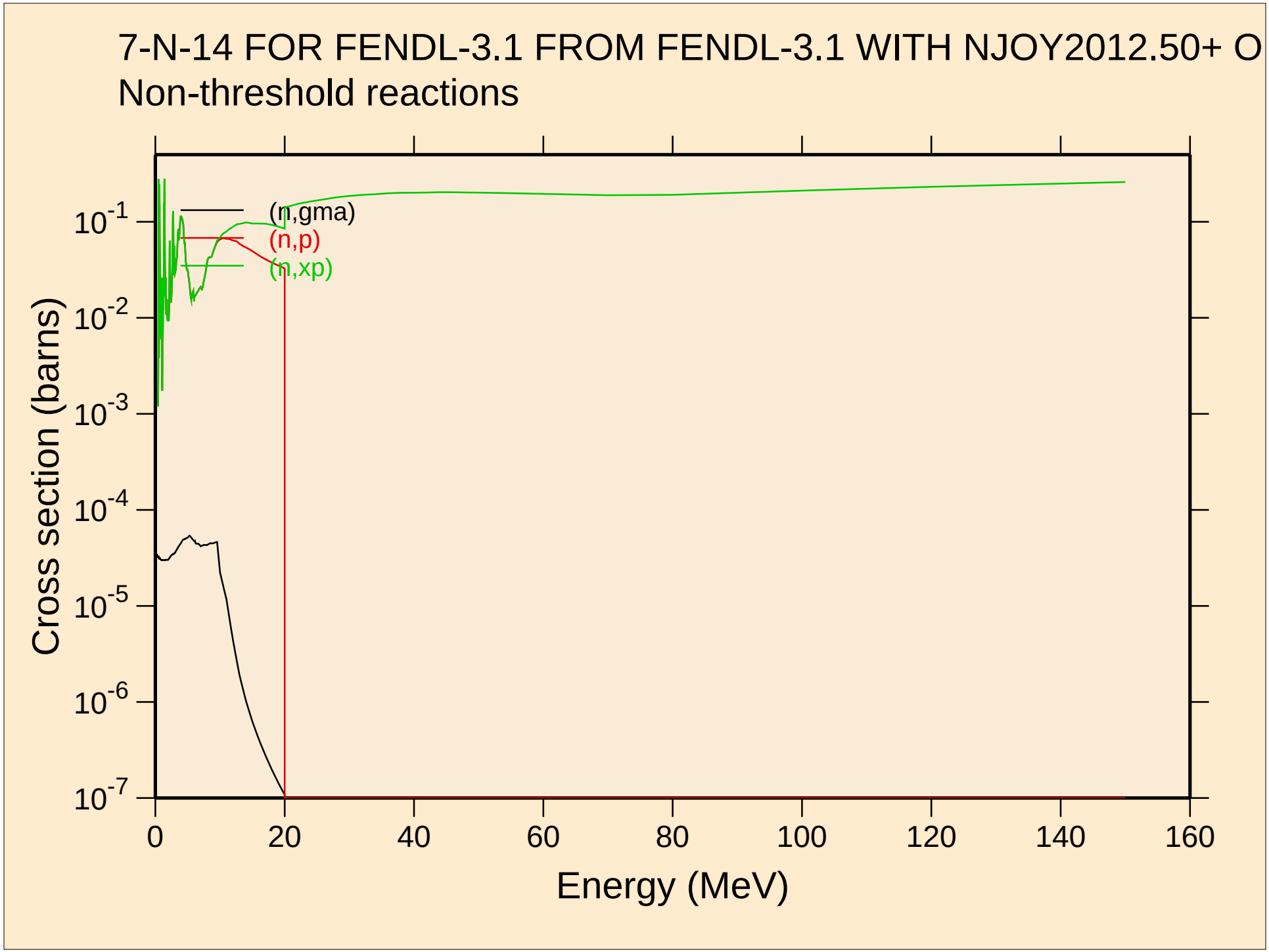

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Damage
damage
Damage (MeV-barns)
10^0
10^-1
10^-2
10^-3
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

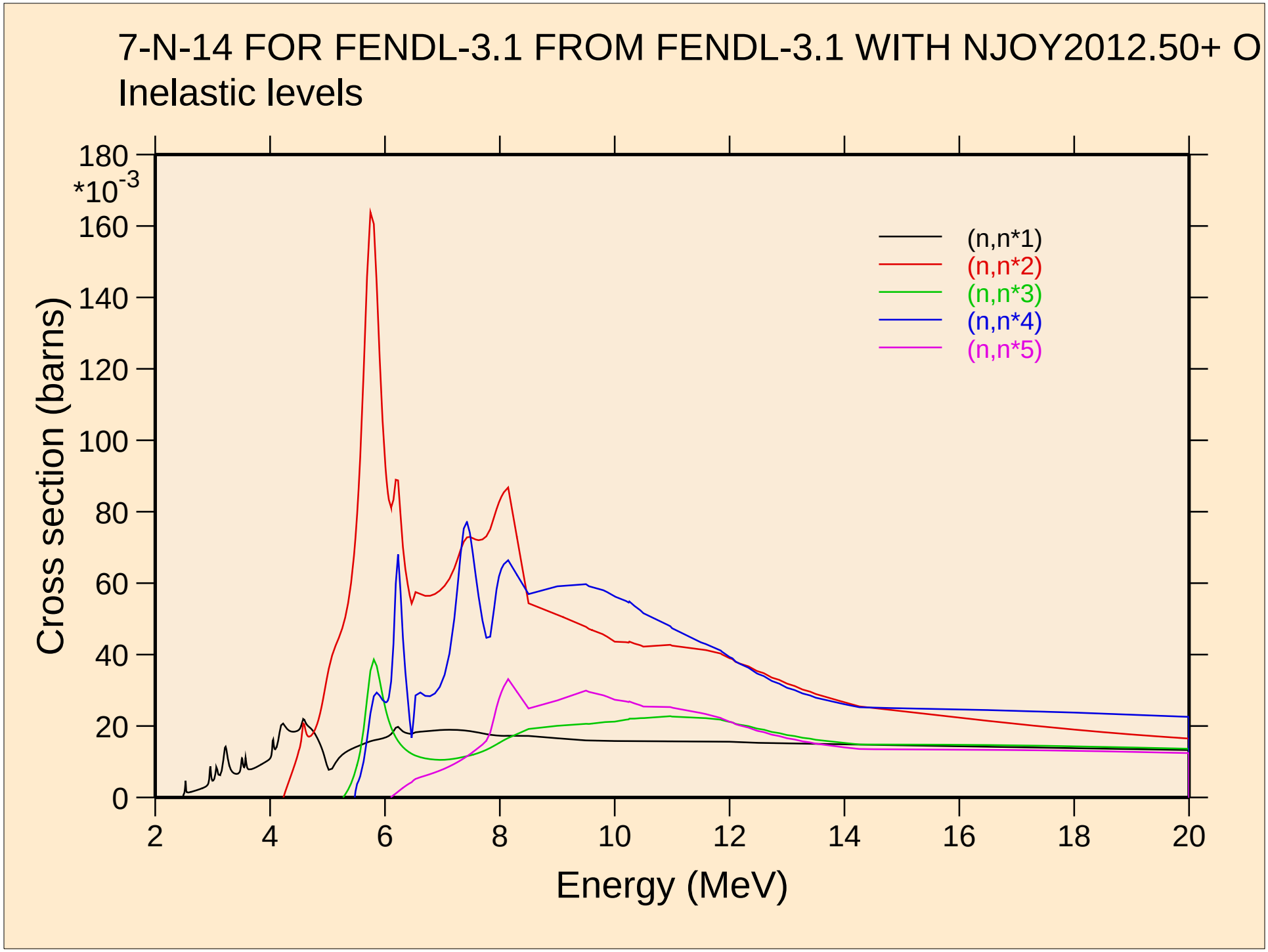

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Non-threshold reactions
(n,gma)
(n,p)
(n,xp)
Cross section (barns)
Energy (MeV)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

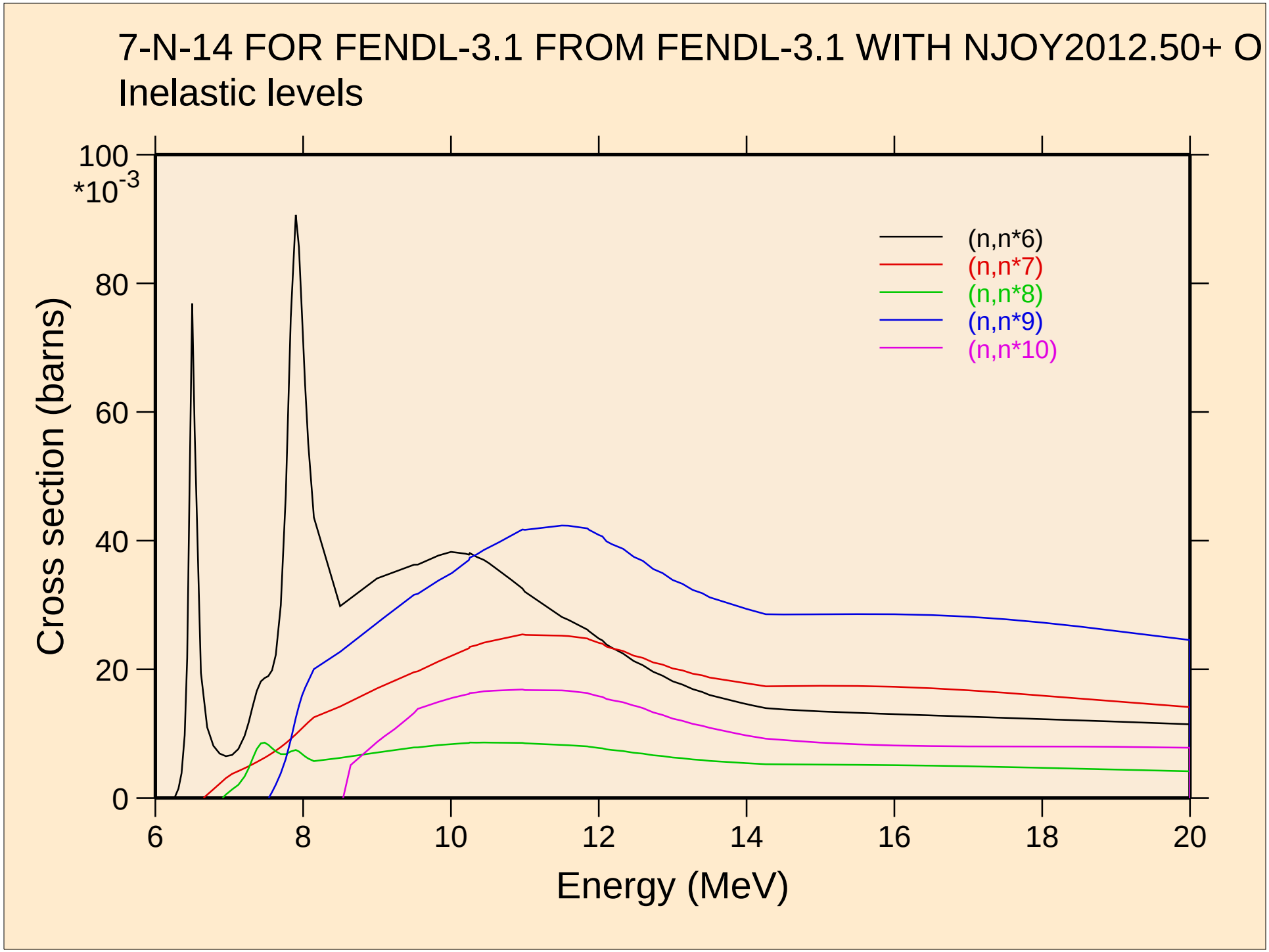

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production
0.0
0.5
1.0
1.5
2.0
2.5
0
20
40
60
80
100
120
140
160

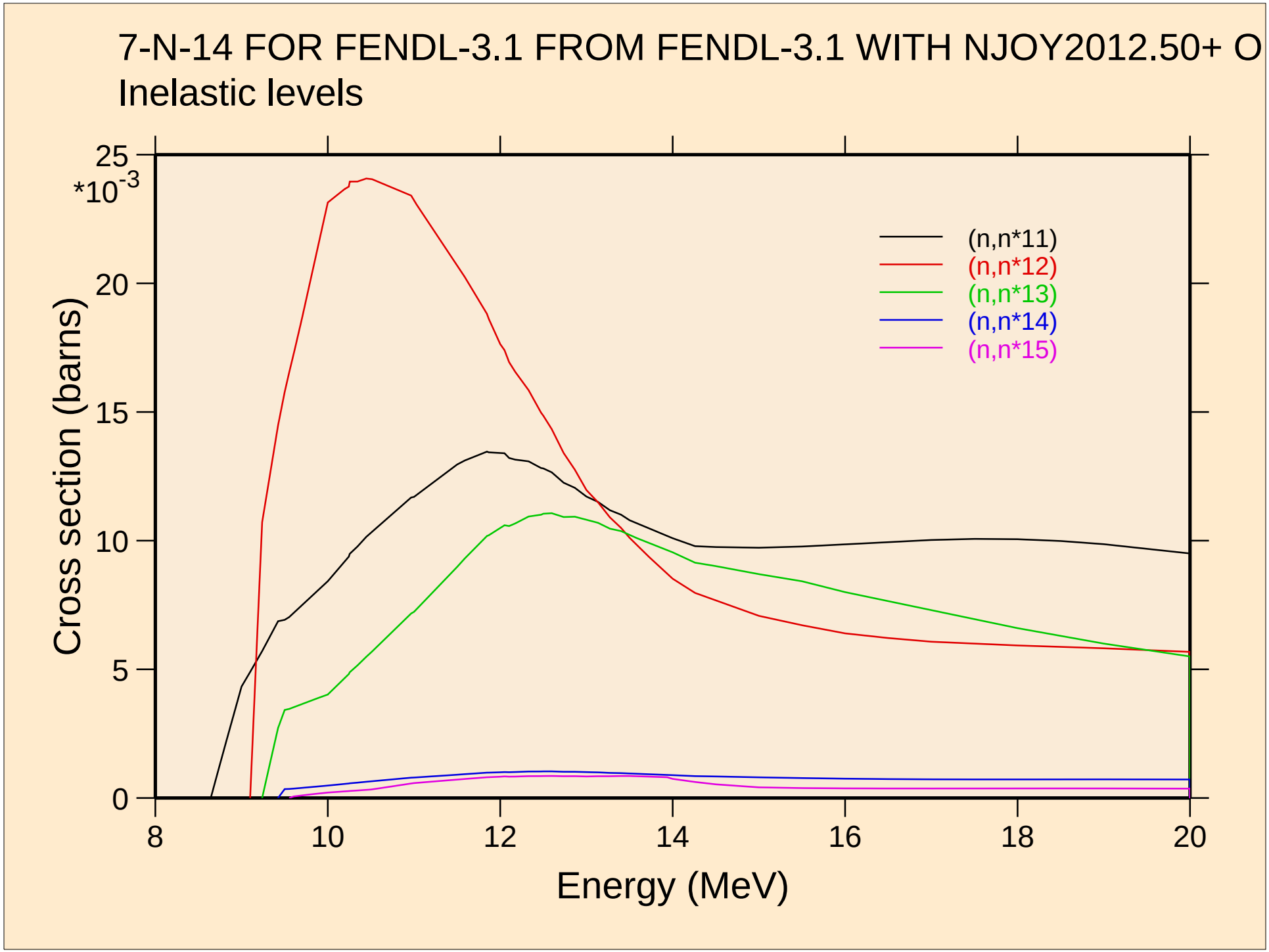

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
0
20
40
60
80
100
120
140
160

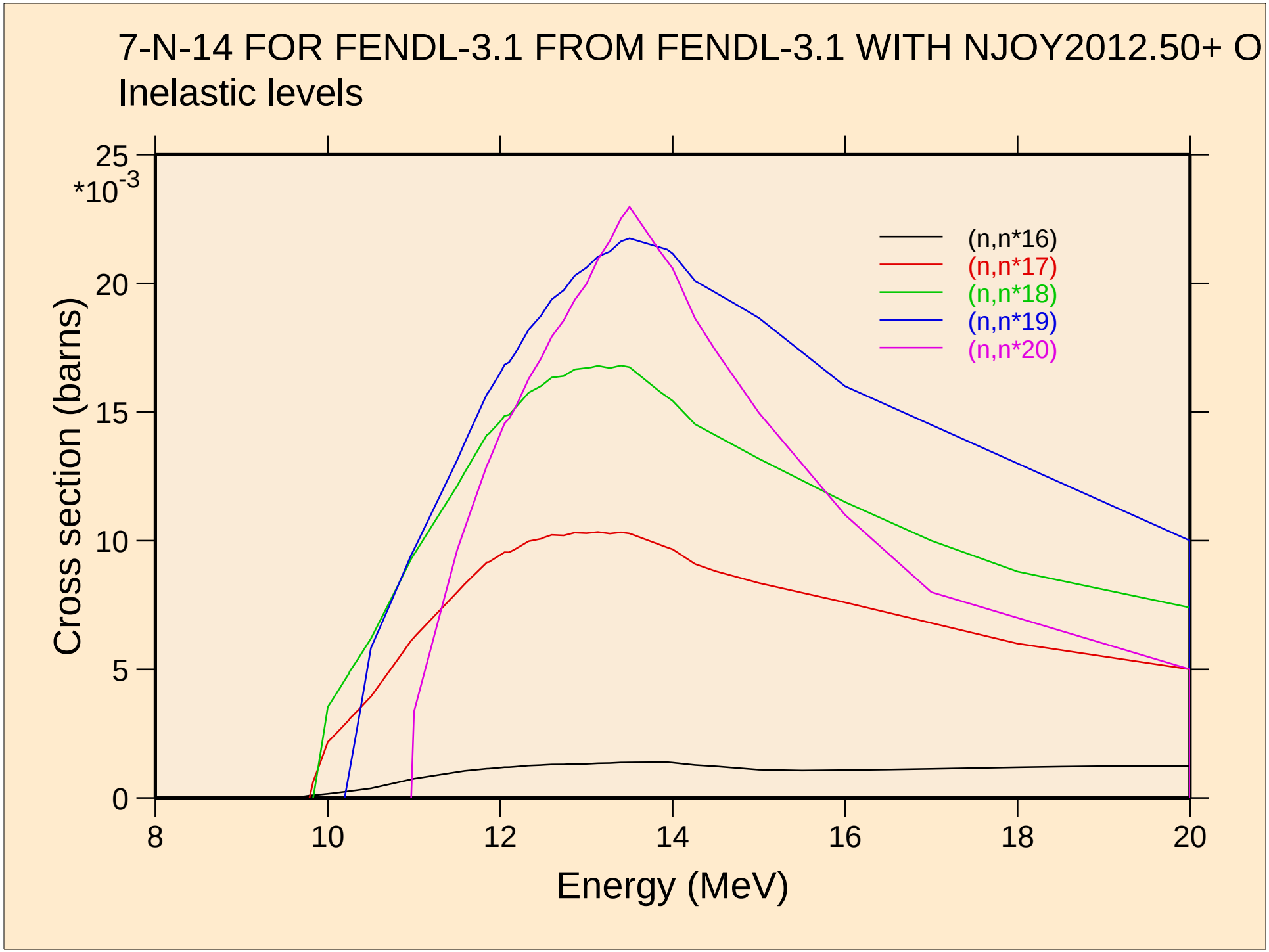

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Damage
100
*10-3
damage
80
60
40
20
0
Damage (MeV-barns)
0
20
40
60
80
100
120
140
160
Energy (MeV)

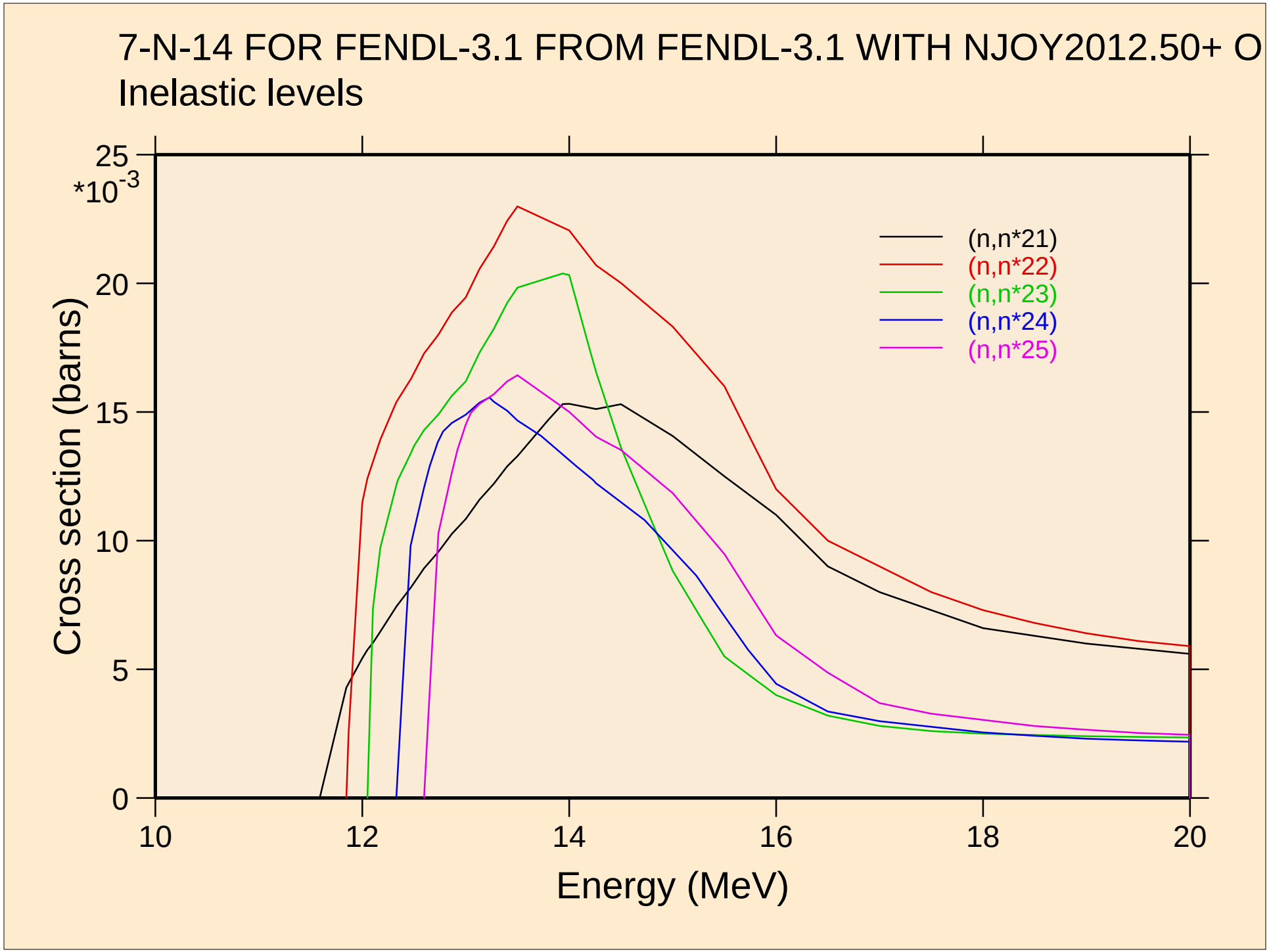

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Non-threshold reactions
(n,gma)
(n,p)
(n,xp)
Cross section (barns)
10-1
10-2
10-3
10-4
10-5
10-6
10-7
0
20
40
60
80
100
120
140
160
Energy (MeV)

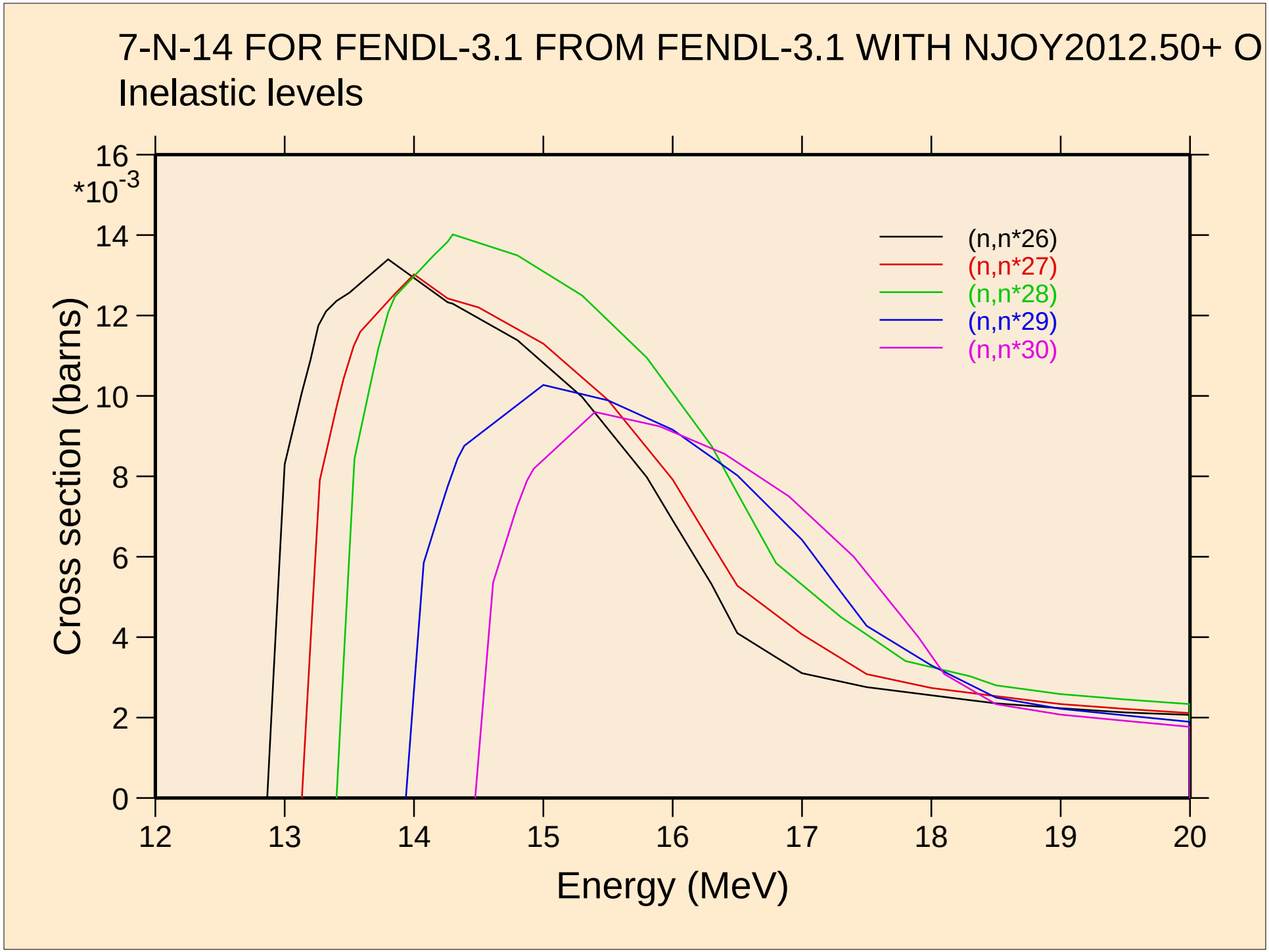

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Inelastic levels
Cross section (barns)
*10-3
180
160
140
120
100
80
60
40
20
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

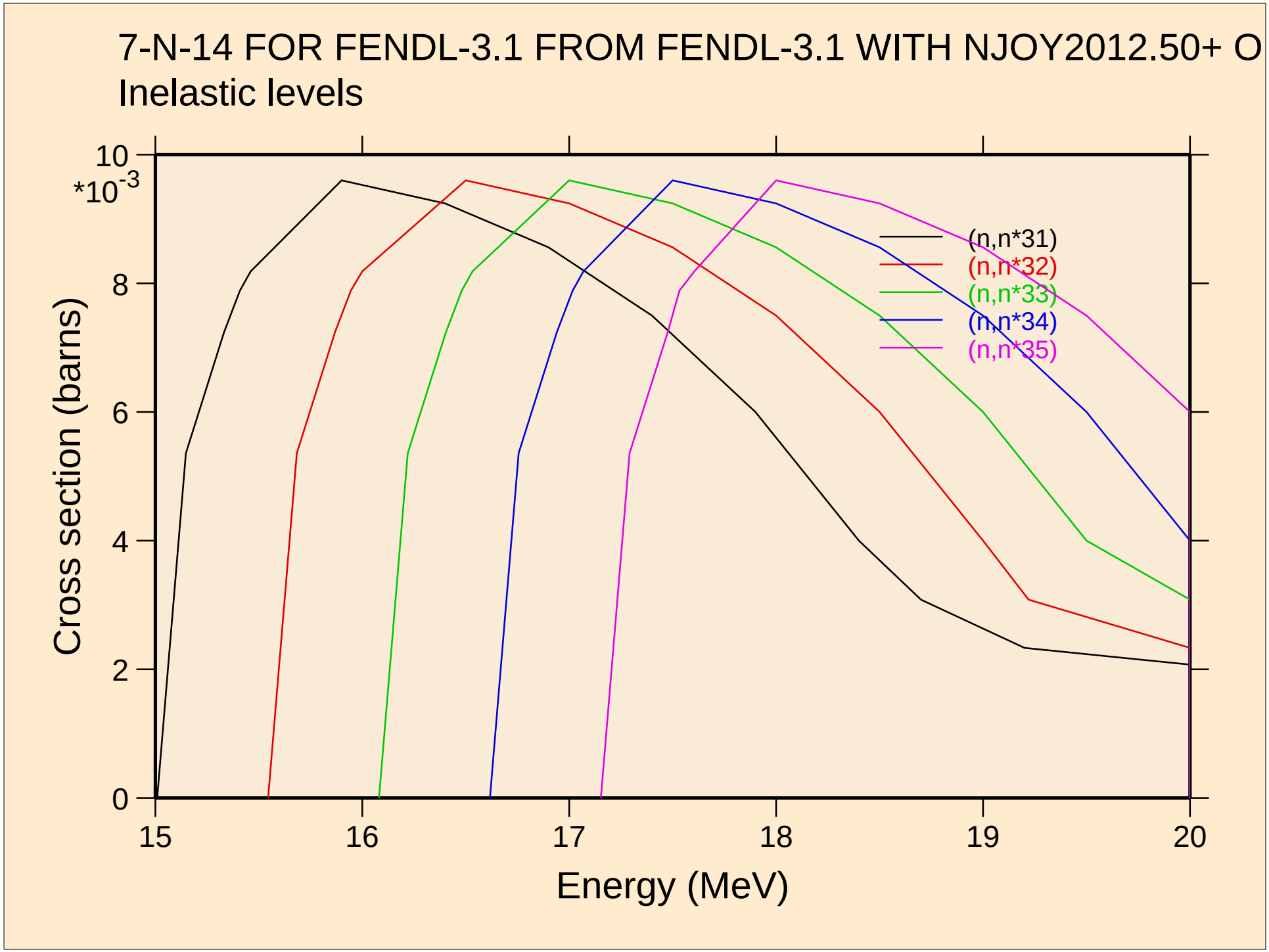

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Inelastic levels
100
*10-3
80
60
40
20
0
Cross section (barns)
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

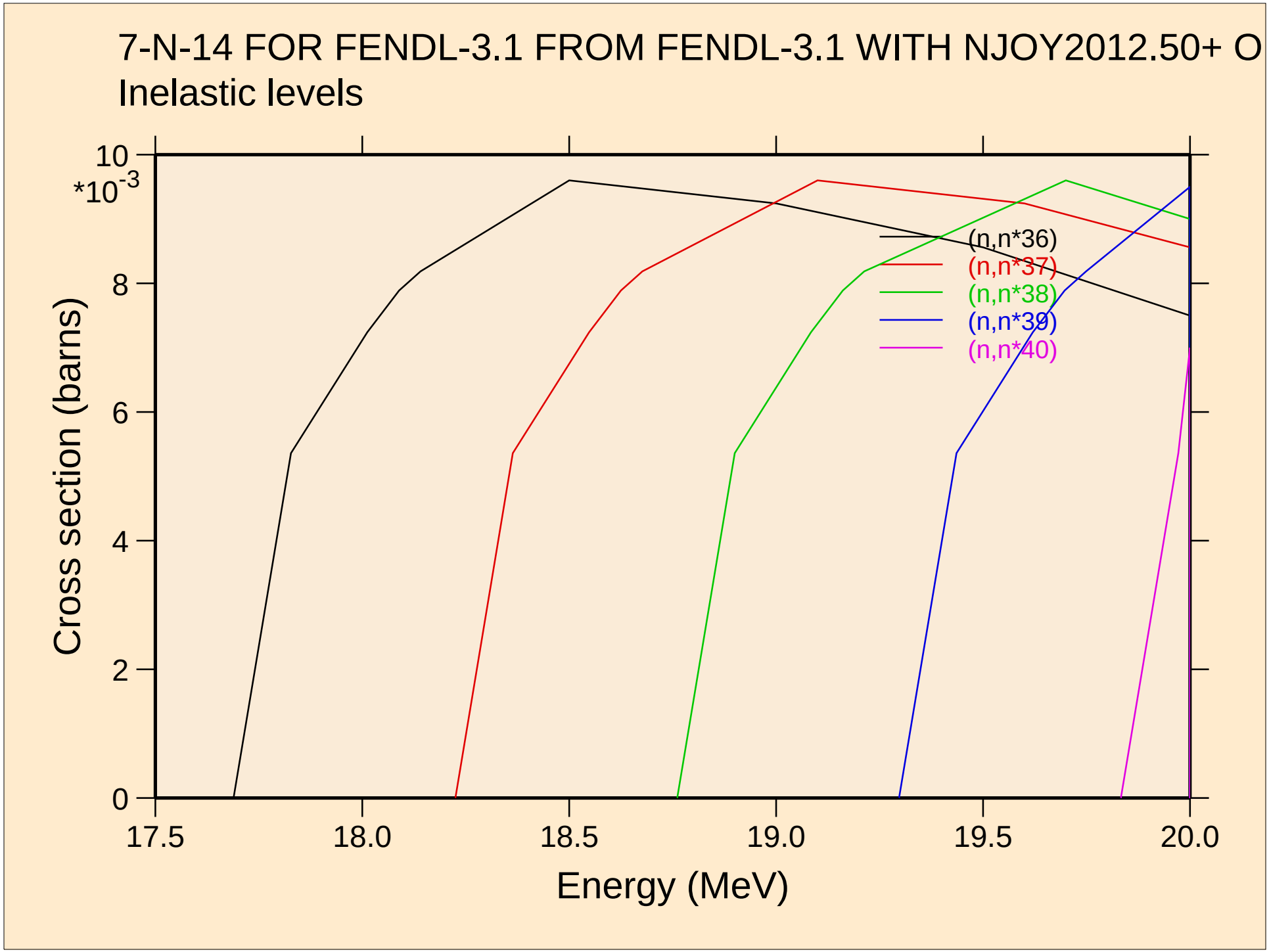

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Inelastic levels
Cross section (barns)
*10-3
25
20
15
10
5
0
8
10
12
14
16
18
20
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

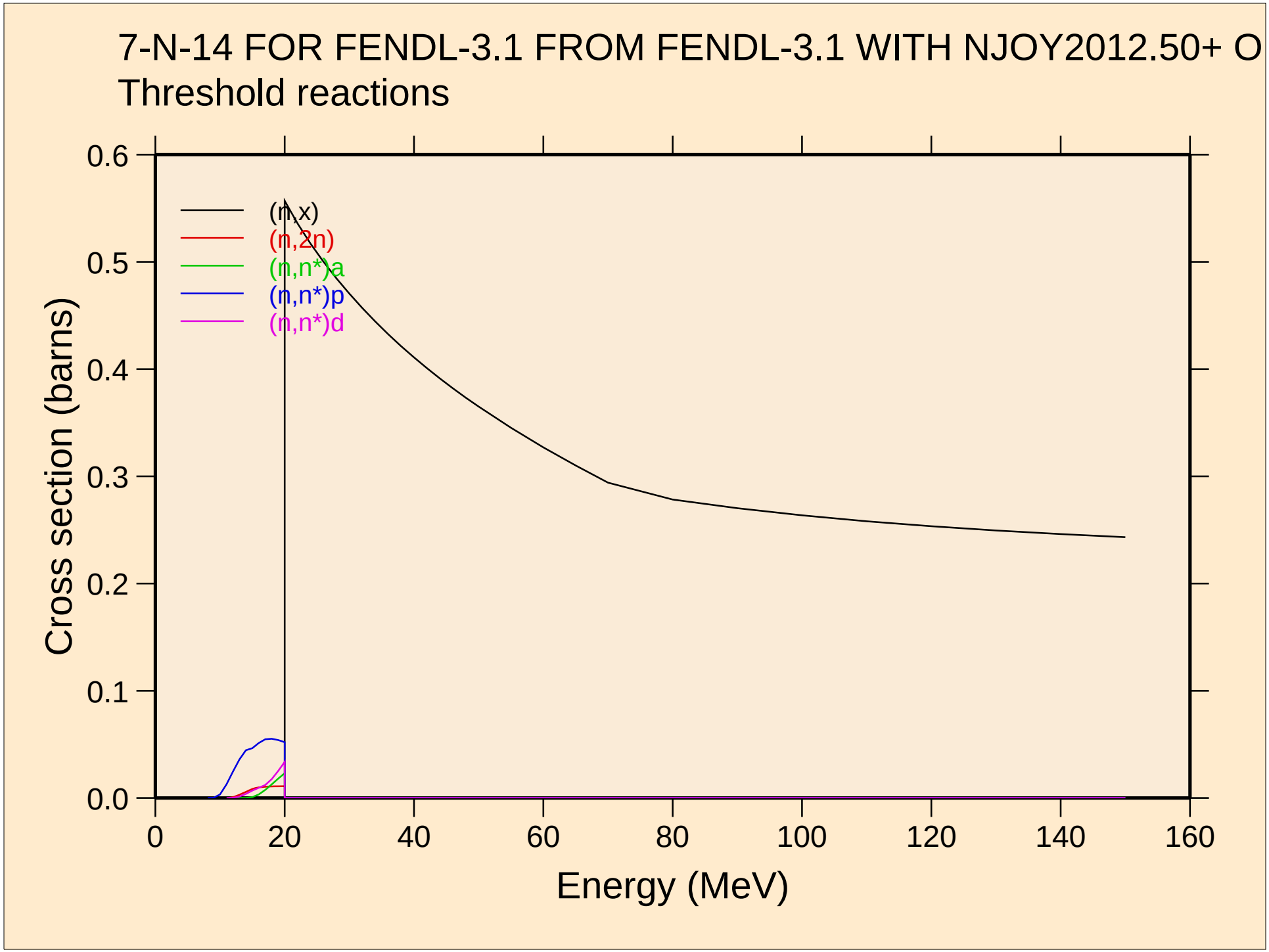

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Inelastic levels
Cross section (barns)
*10-3
25
20
15
10
5
0
8
10
12
14
16
18
20
Energy (MeV)
(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)
(n,n*20)

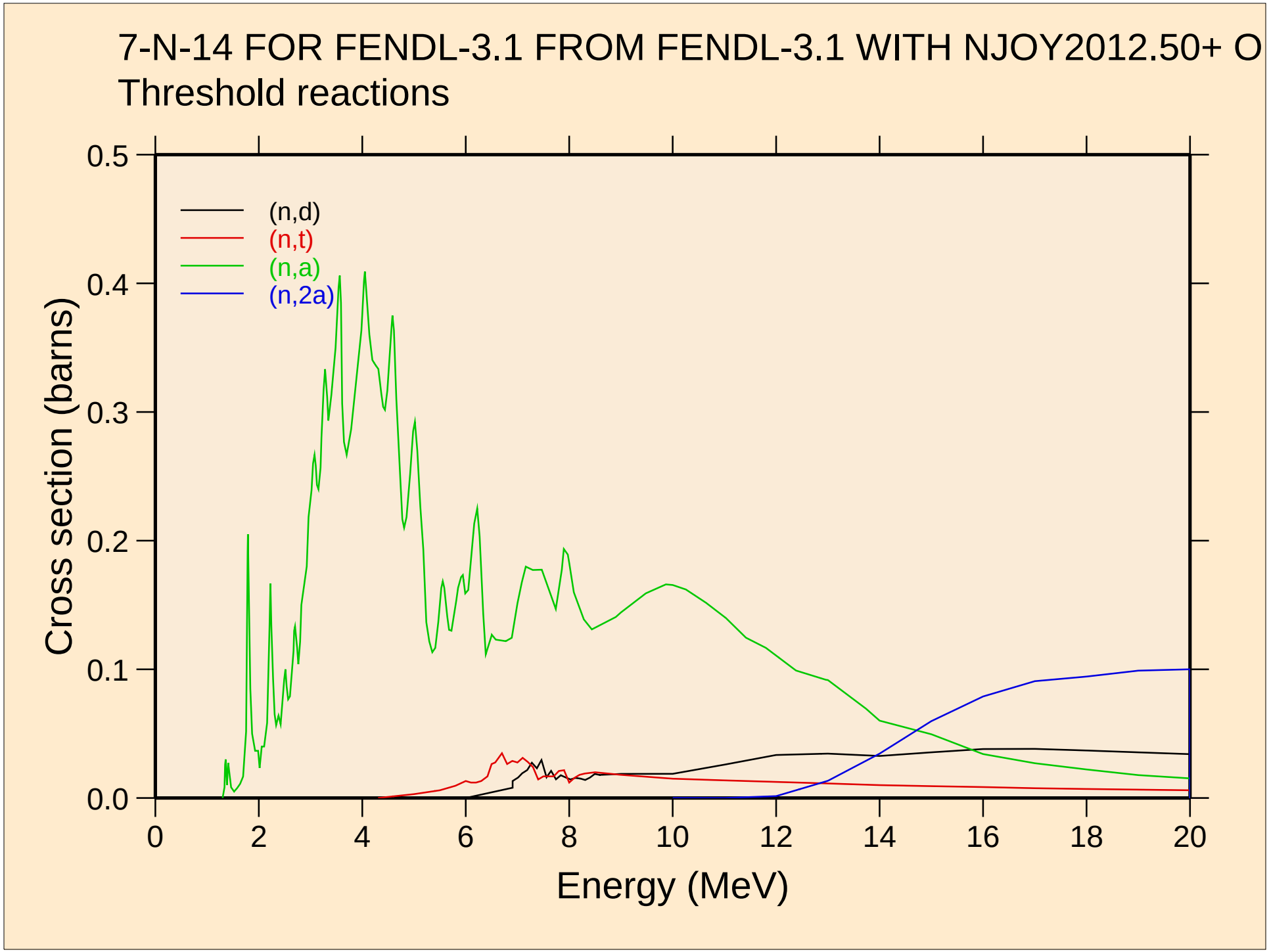

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Inelastic levels
Cross section (barns)
*10-3
25
20
15
10
5
0
10
12
14
16
18
20
Energy (MeV)
(n,n*21)
(n,n*22)
(n,n*23)
(n,n*24)
(n,n*25)

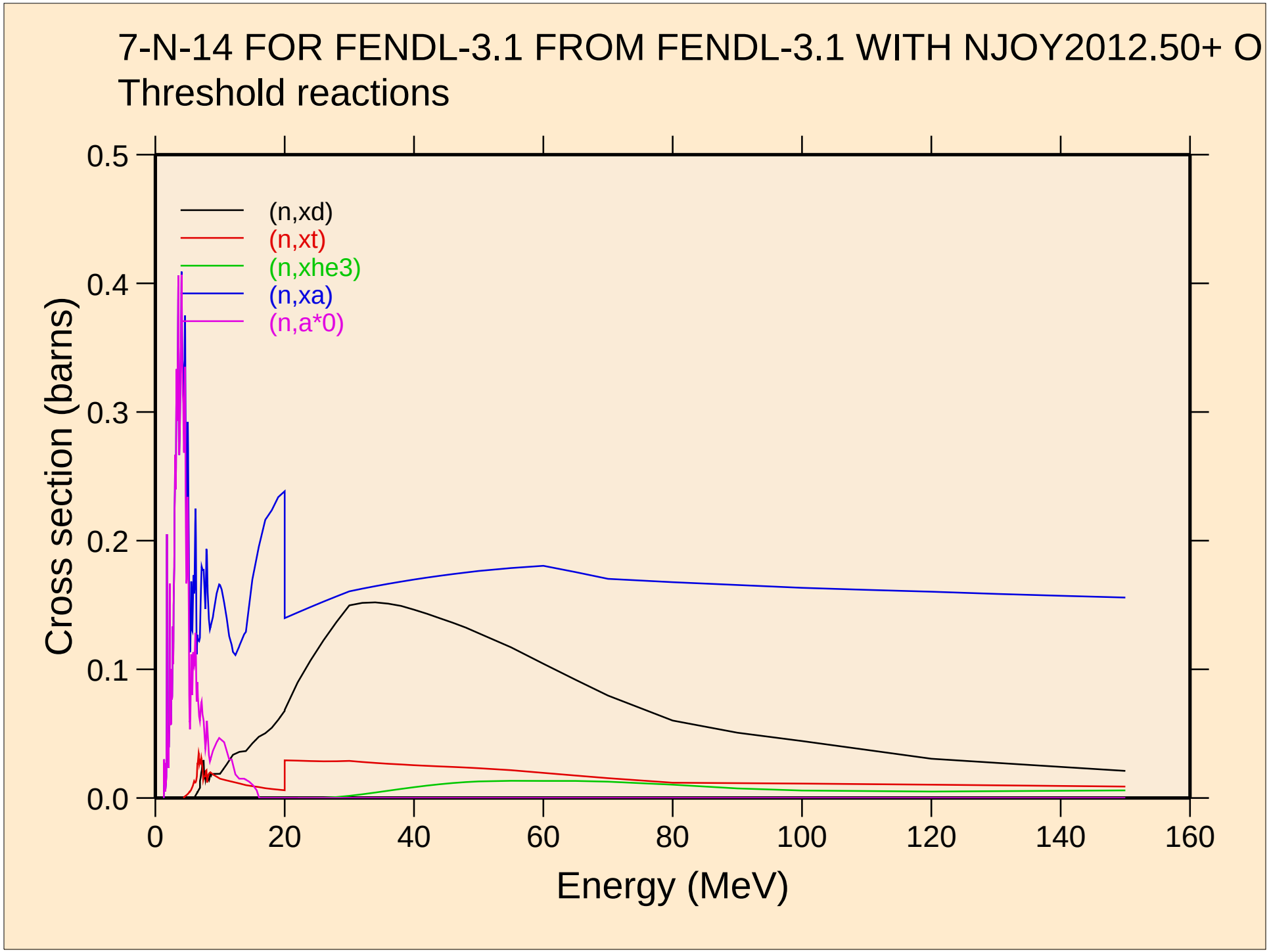

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Inelastic levels
Cross section (barns)
*10-3
16
14
12
10
8
6
4
2
0
12
13
14
15
16
17
18
19
20
Energy (MeV)
(n,n*26)
(n,n*27)
(n,n*28)
(n,n*29)
(n,n*30)

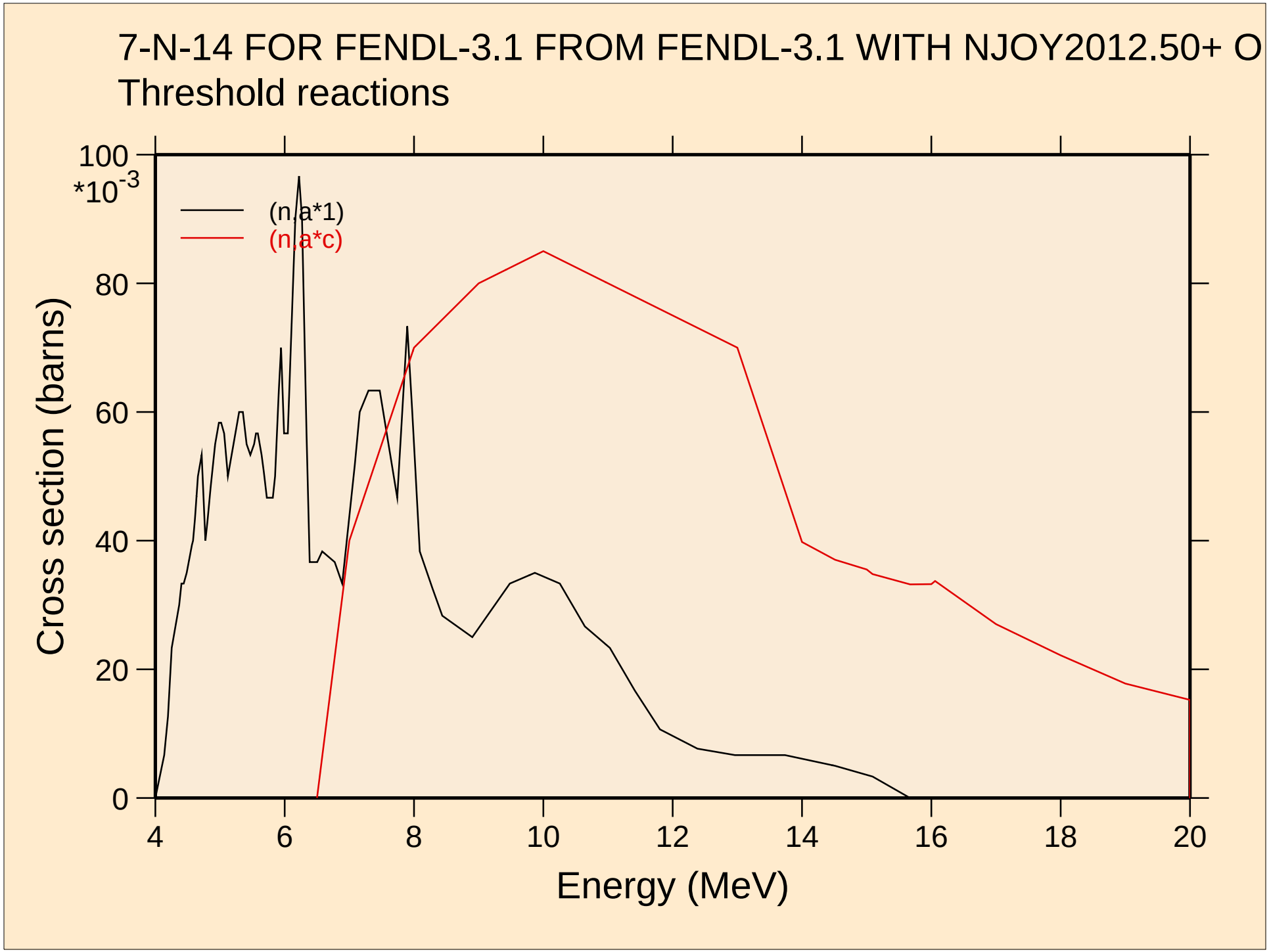

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Inelastic levels
10
*10-3
8
6
4
2
0
Cross section (barns)
15
16
17
18
19
20
Energy (MeV)
(n,n*31)
(n,n*32)
(n,n*33)
(n,n*34)
(n,n*35)

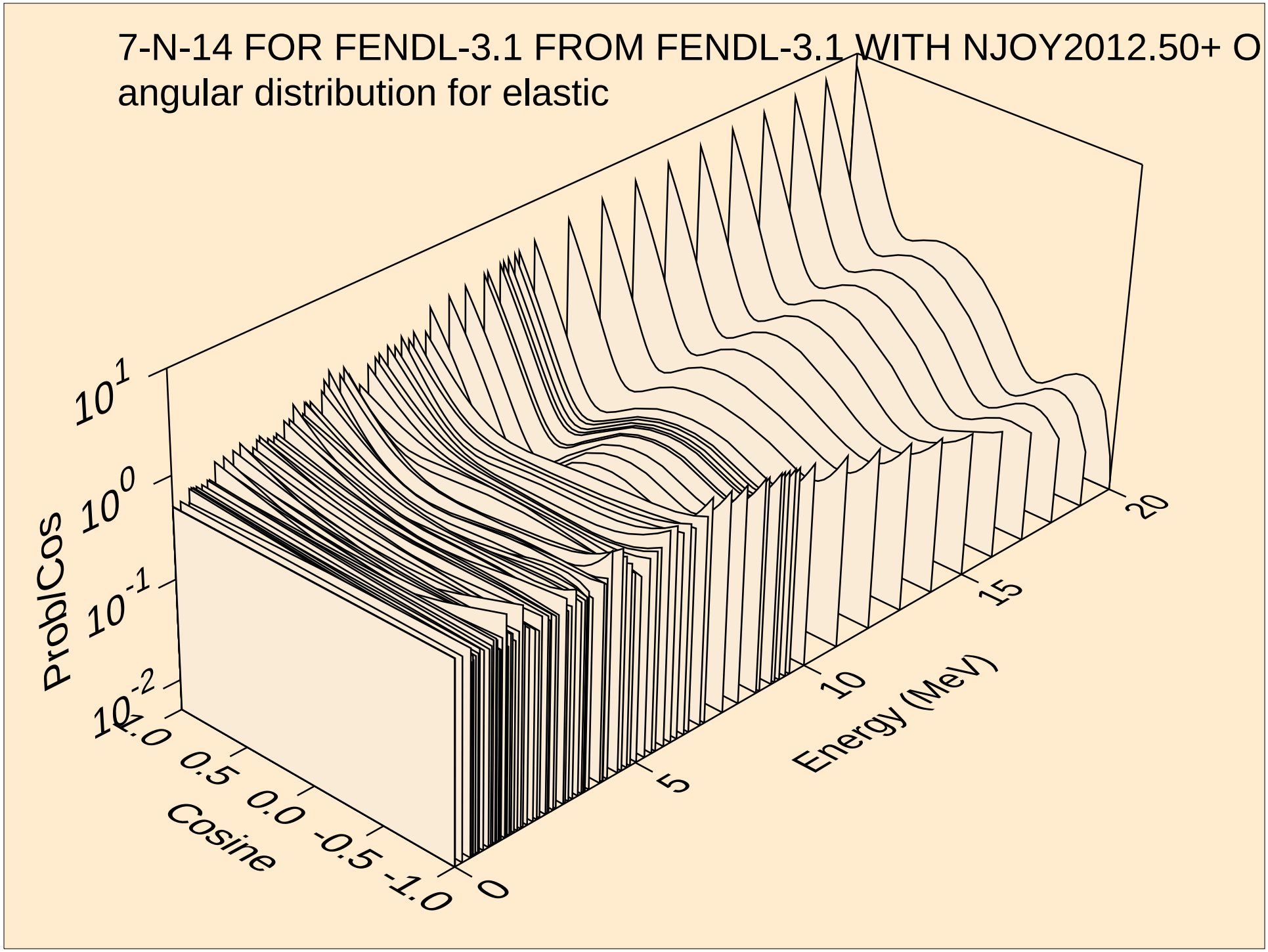

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Inelastic levels
10
*10-3
8
6
4
2
0
Cross section (barns)
17.5
18.0
18.5
19.0
19.5
20.0
Energy (MeV)
(n,n*36)
(n,n*37)
(n,n*38)
(n,n*39)
(n,n*40)

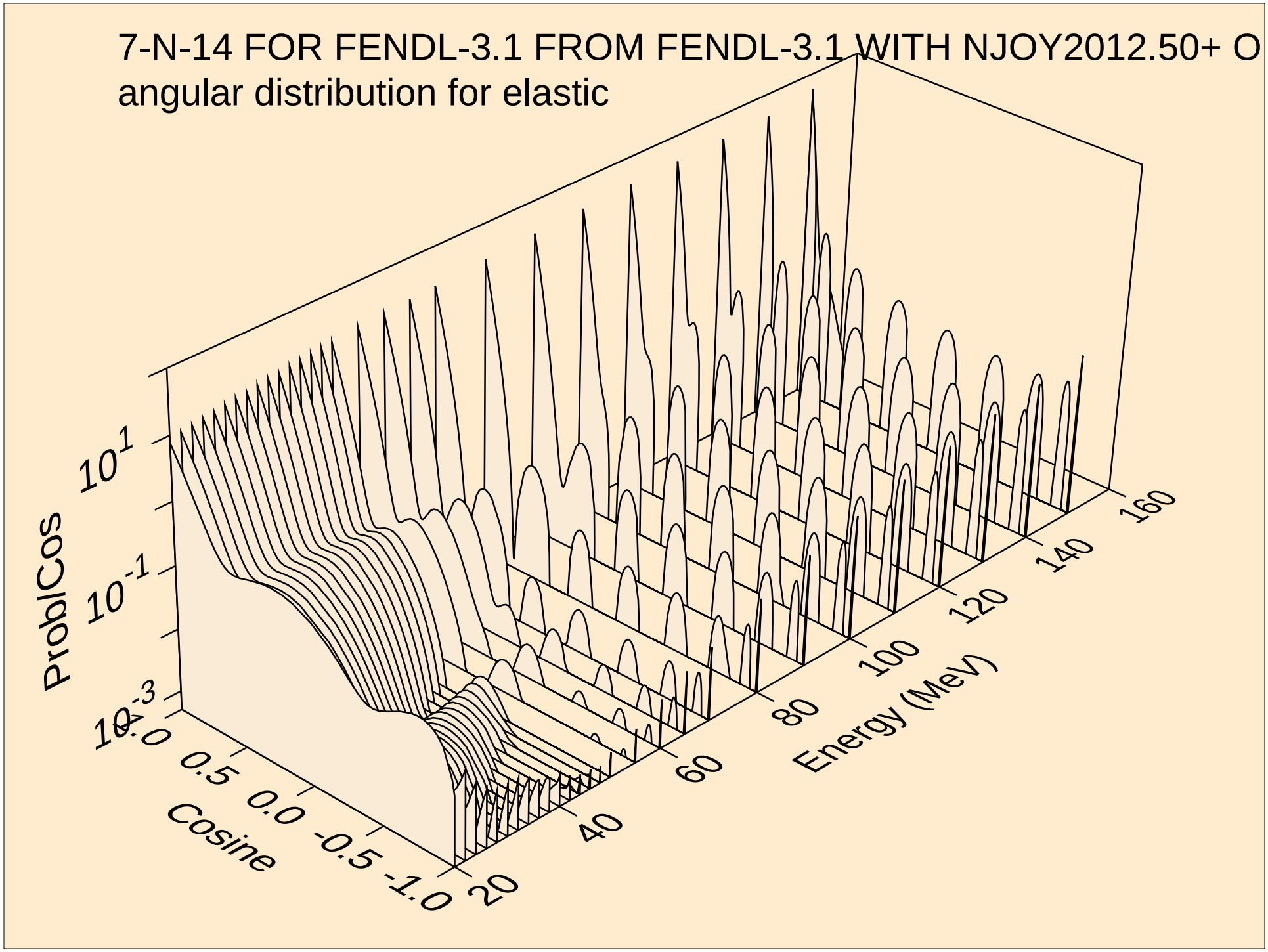

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Threshold reactions
Cross section (barns)
Energy (MeV)
(n,x)
(n,2n)
(n,n*)a
(n,n*)p
(n,n*)d
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
100
120
140
160

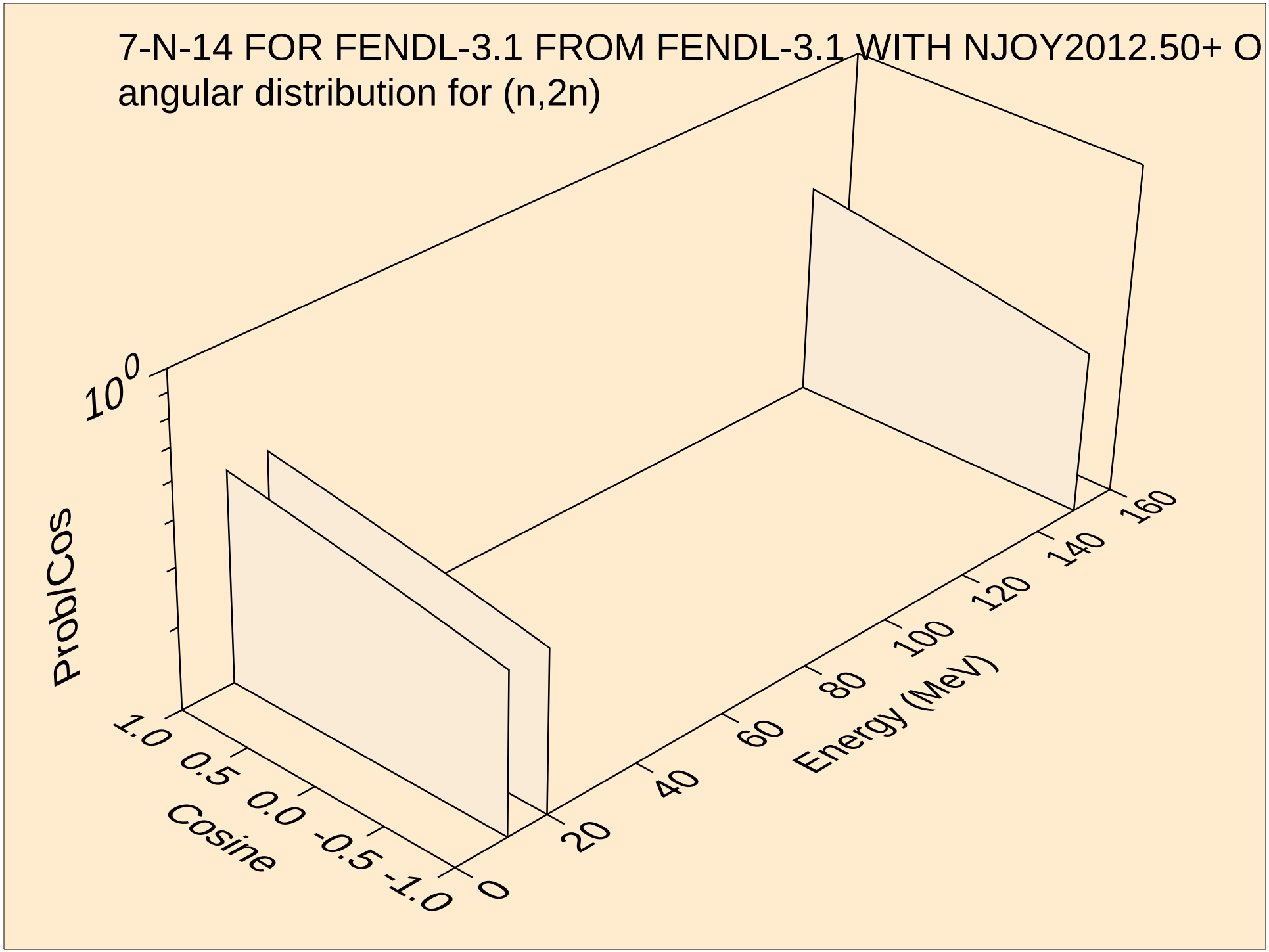

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Threshold reactions
(n,d)
(n,t)
(n,a)
(n,2a)
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

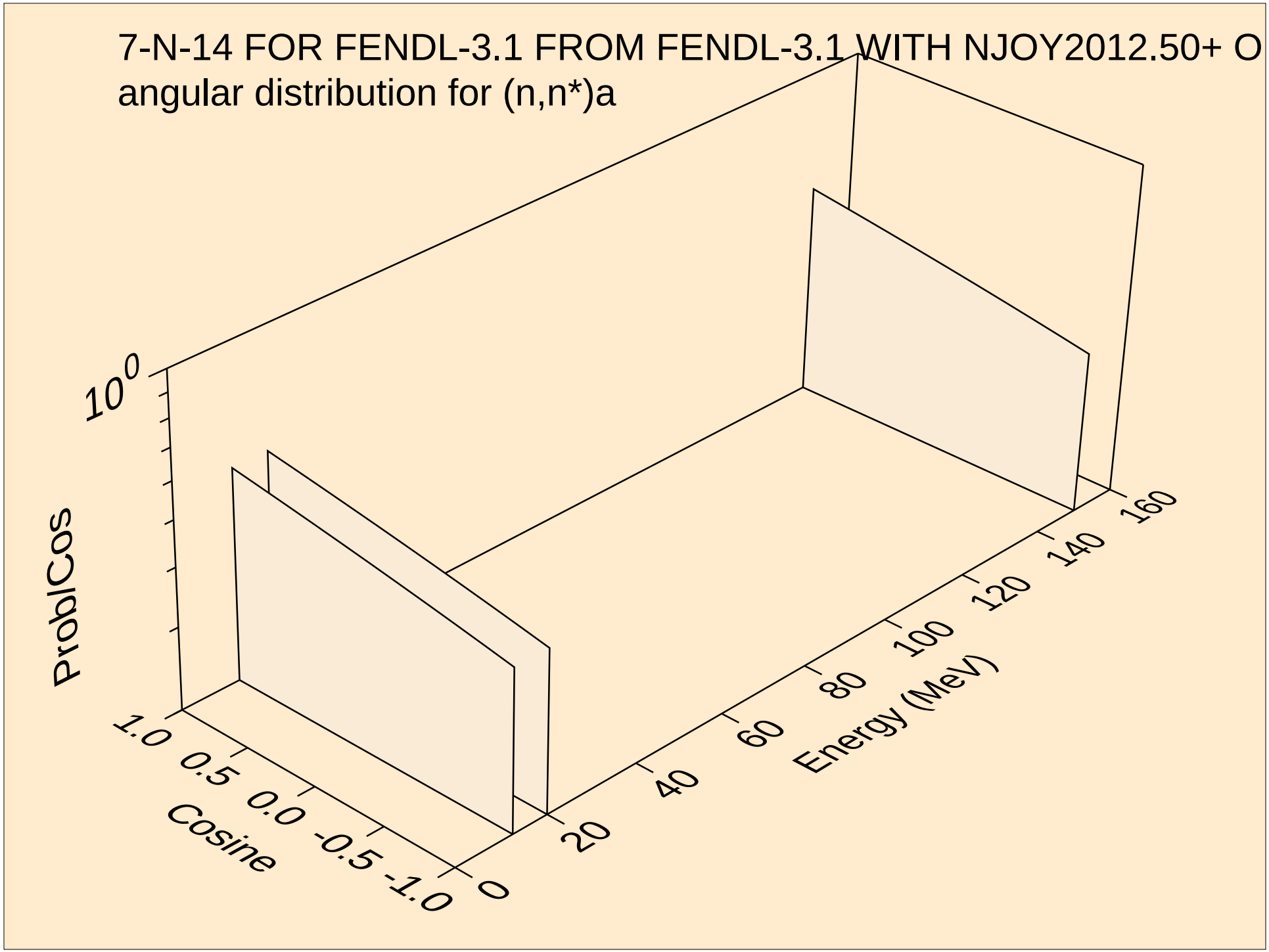

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Threshold reactions
(n,xd)
(n,xt)
(n,xhe3)
(n,xa)
(n,a*0)
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
80
100
120
140
160
Energy (MeV)

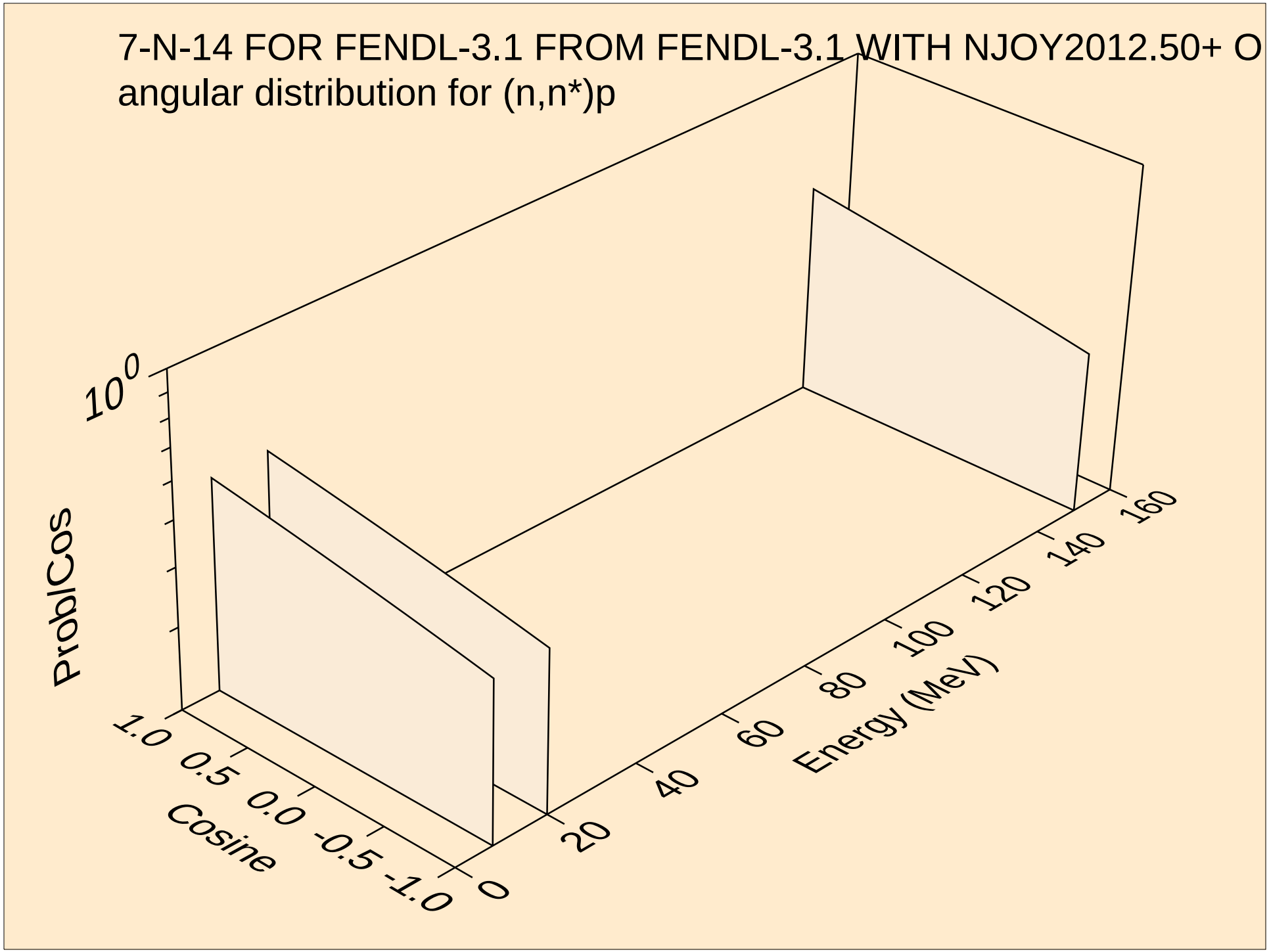

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Threshold reactions
100
*10-3
80
60
40
20
0
(n,a*1)
(n,a*c)
Cross section (barns)
4
6
8
10
12
14
16
18
20
Energy (MeV)

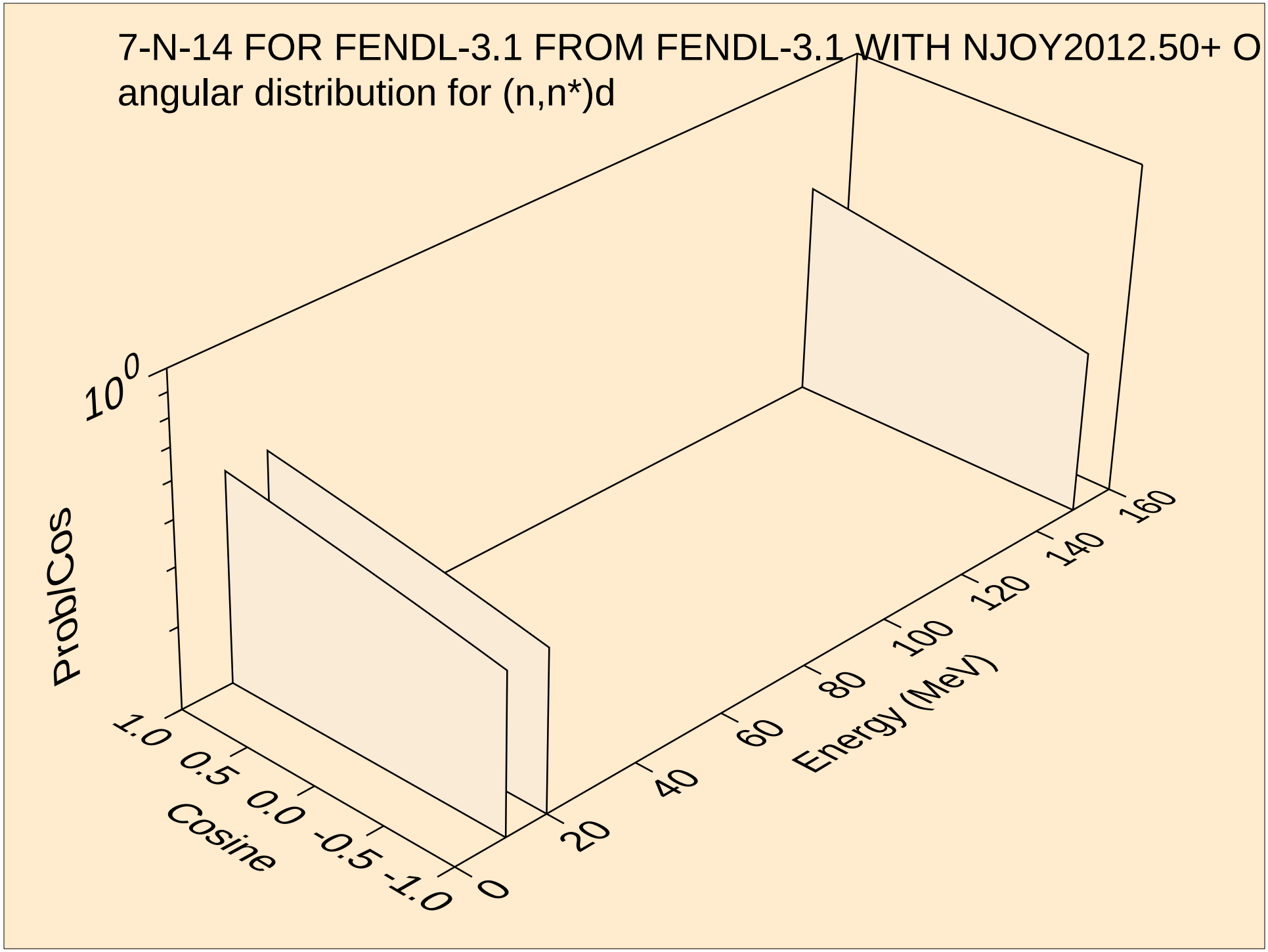

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for elastic
ProbCos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

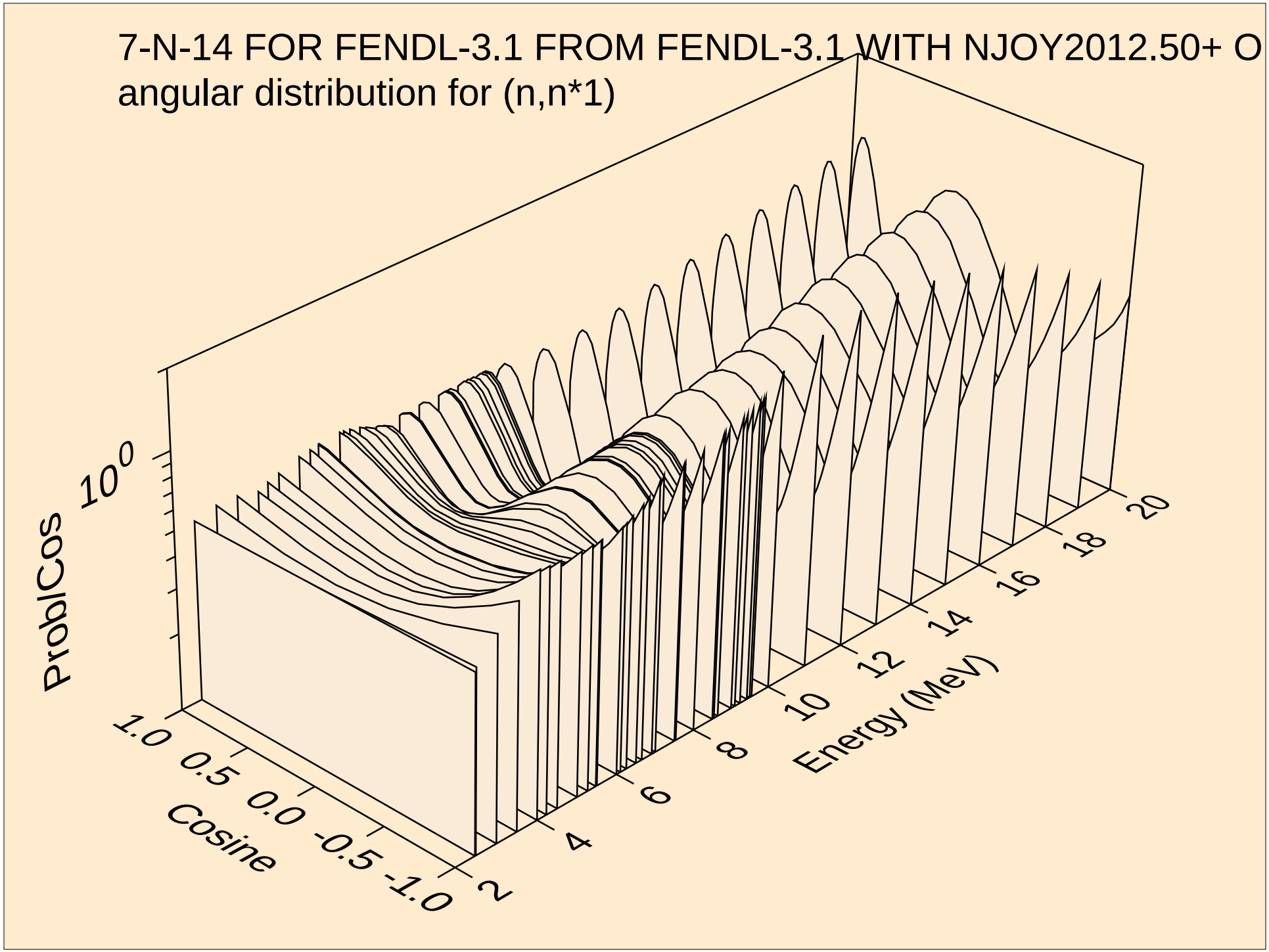

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for elastic
ProbCos
10^1
10^-1
10^-3
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

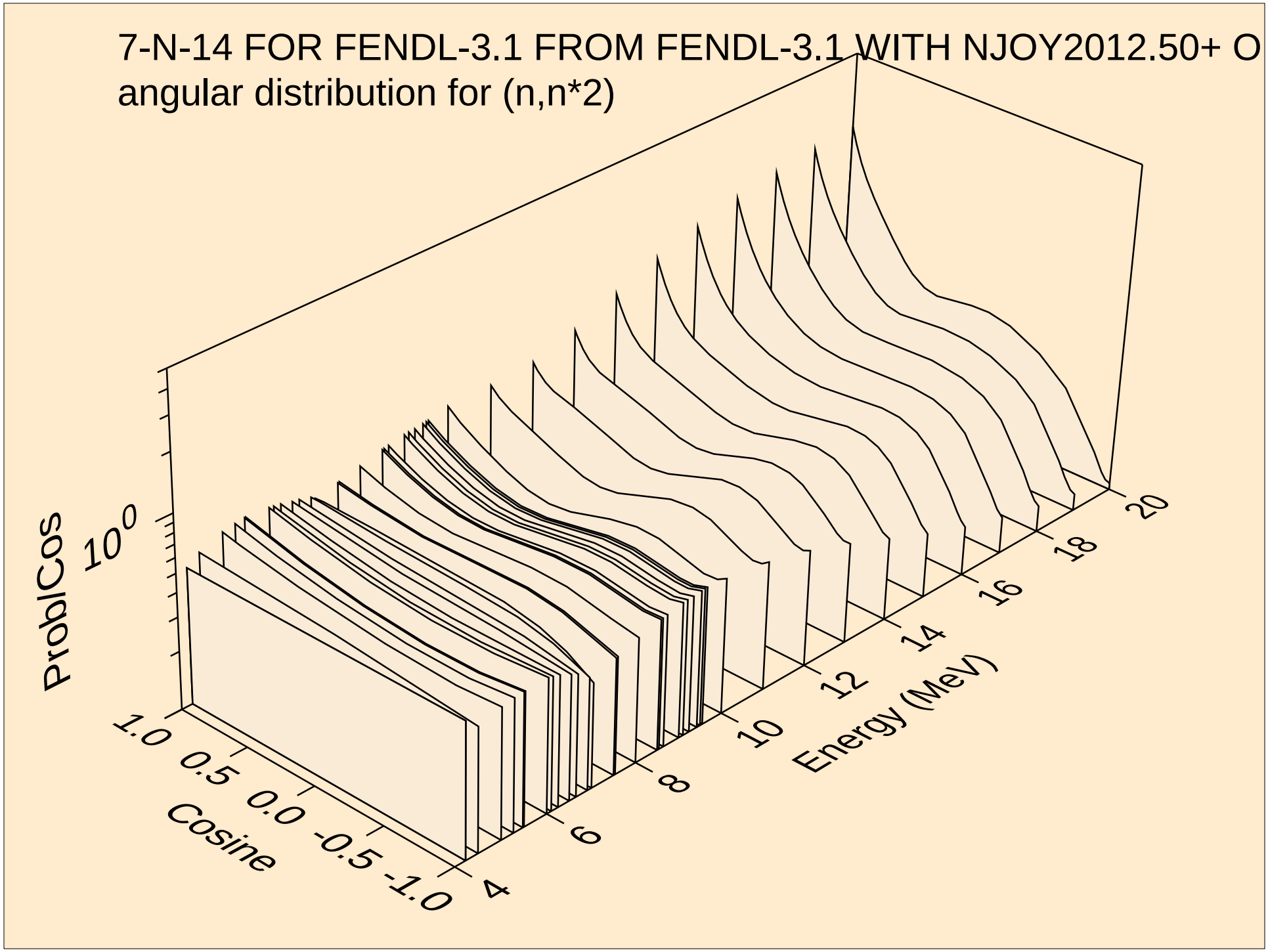

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,2n)
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
20
40
60
80
100
120
140
160

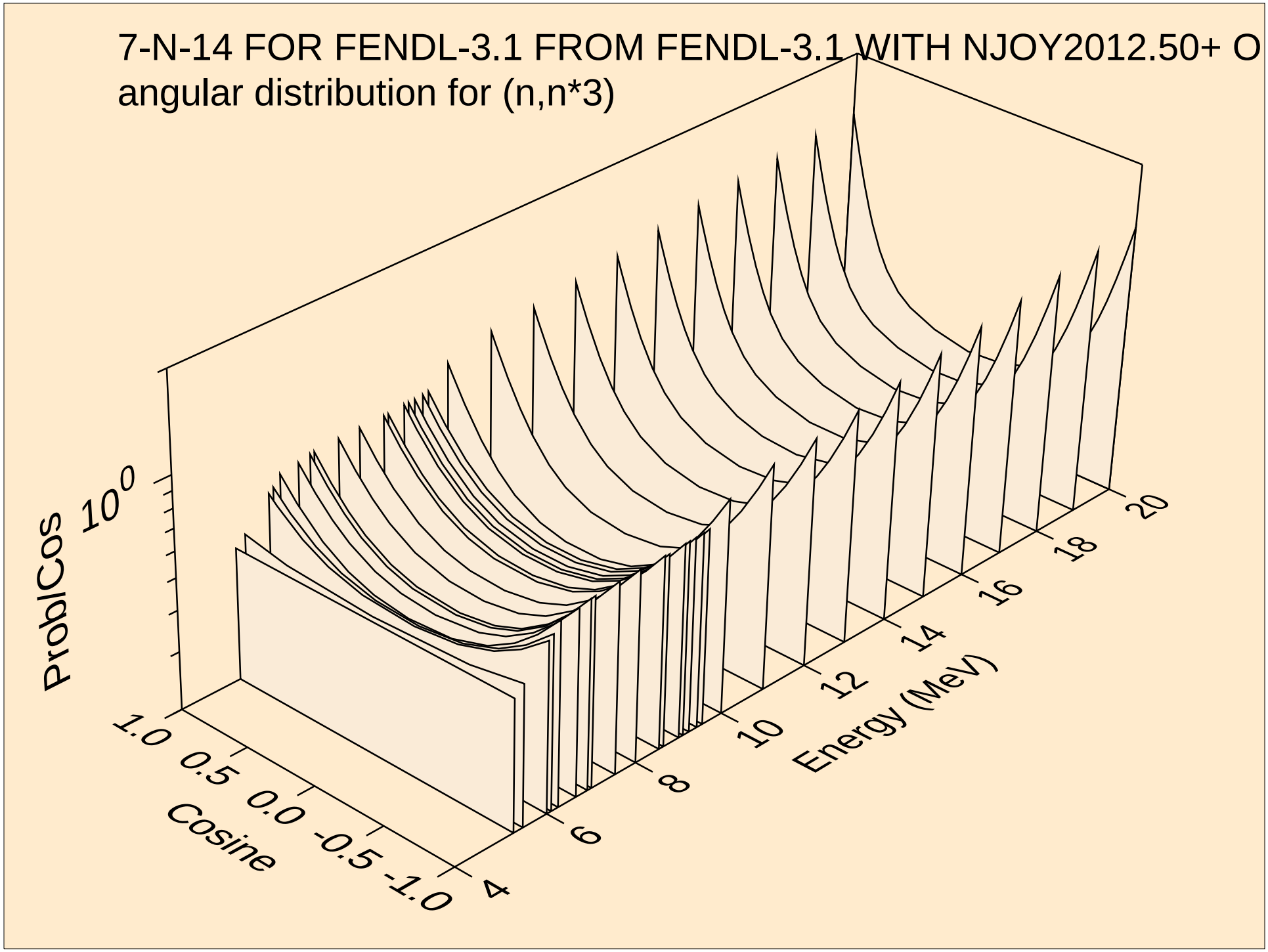

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*)a
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
20
40
60
80
100
120
140
160

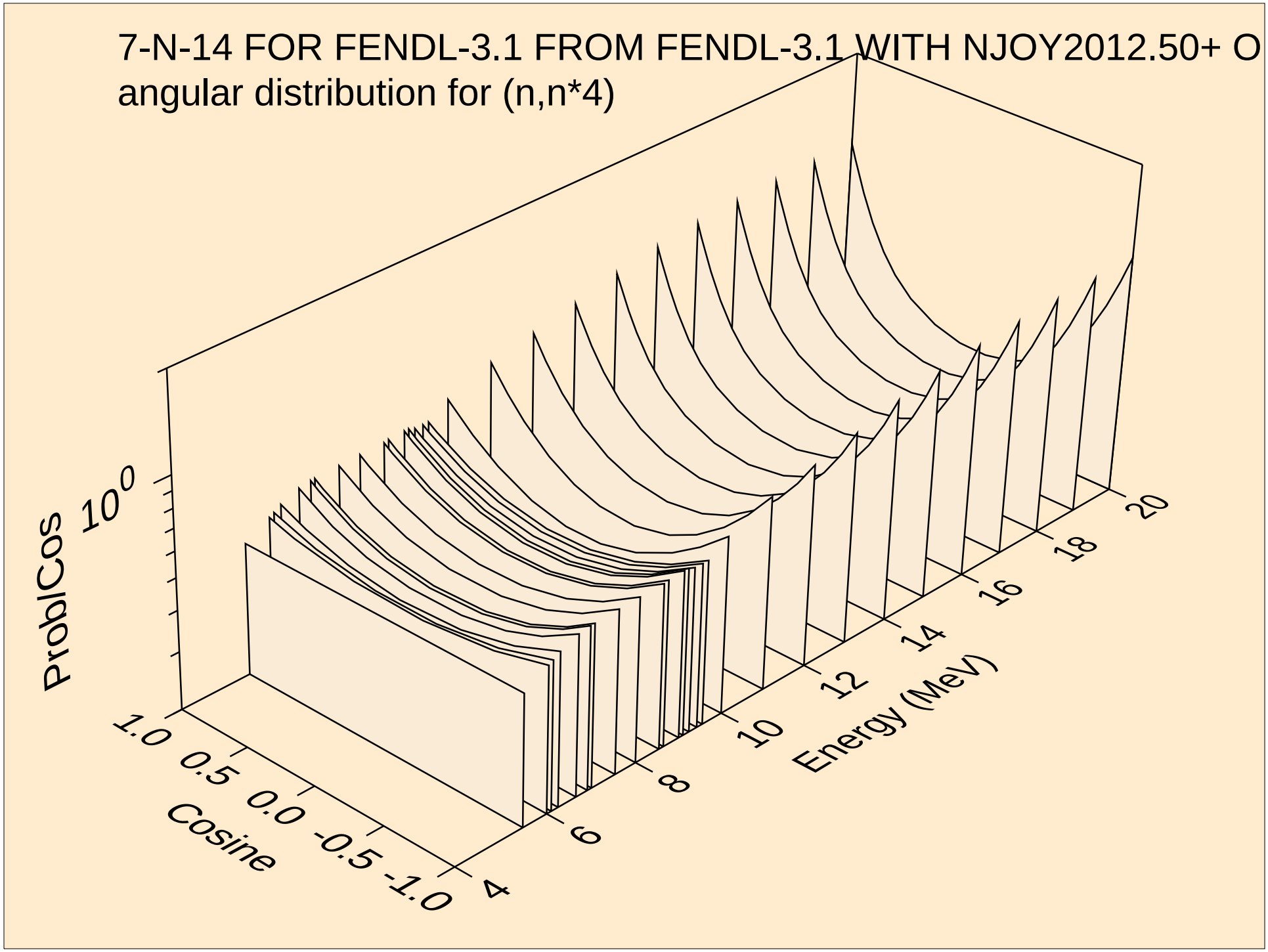

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*)p
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

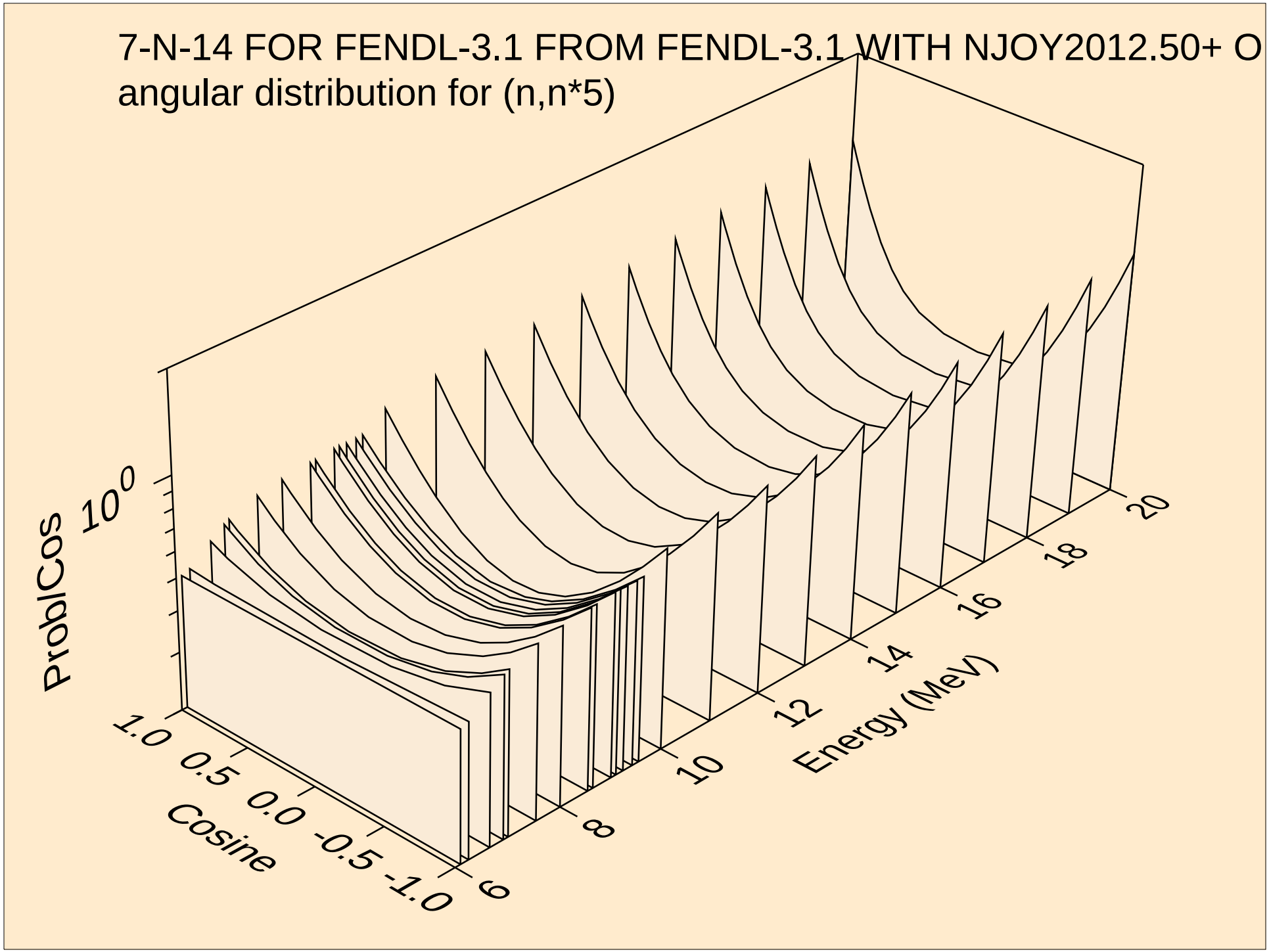

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*)d
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

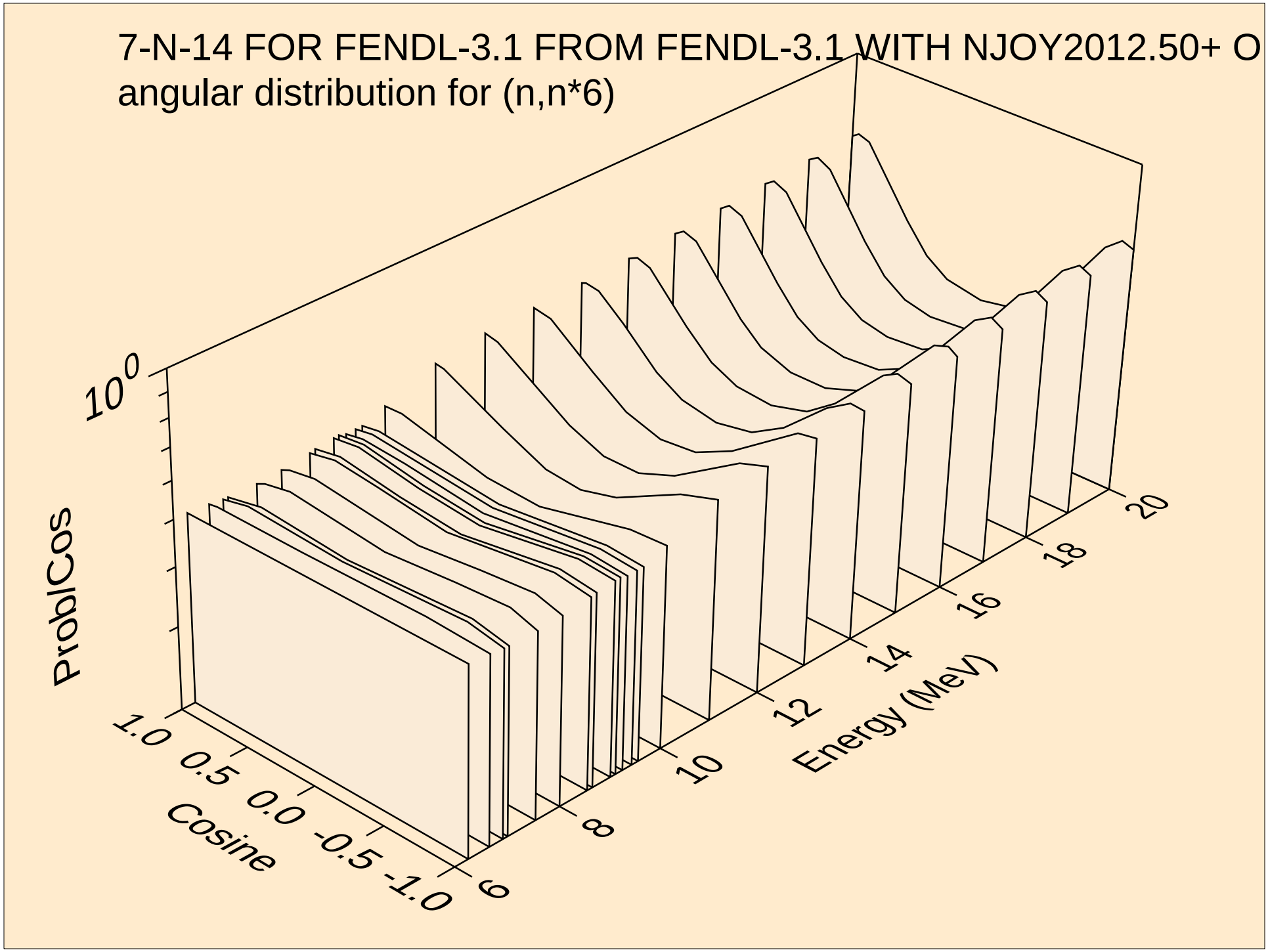

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*1)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

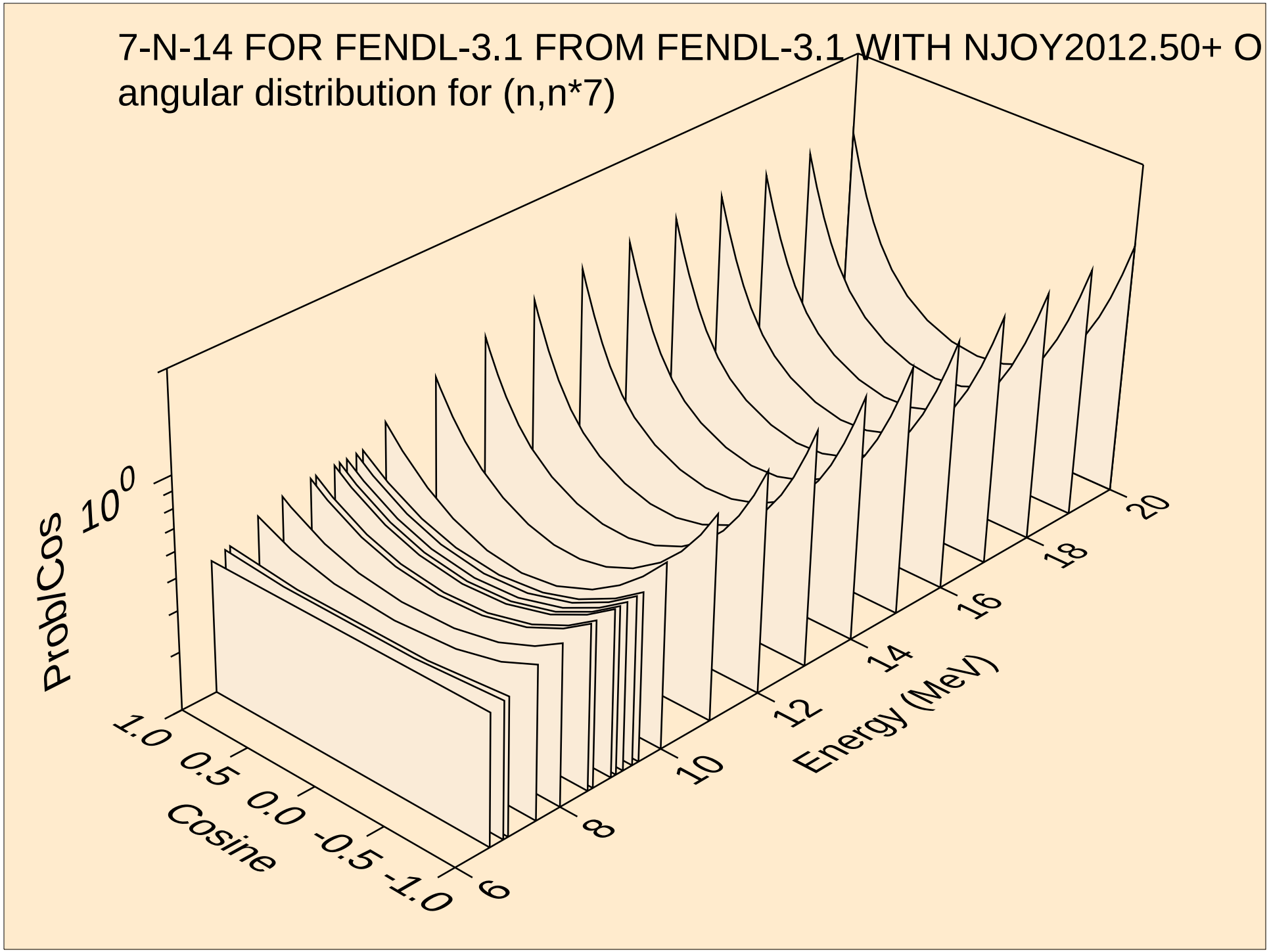

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*2)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

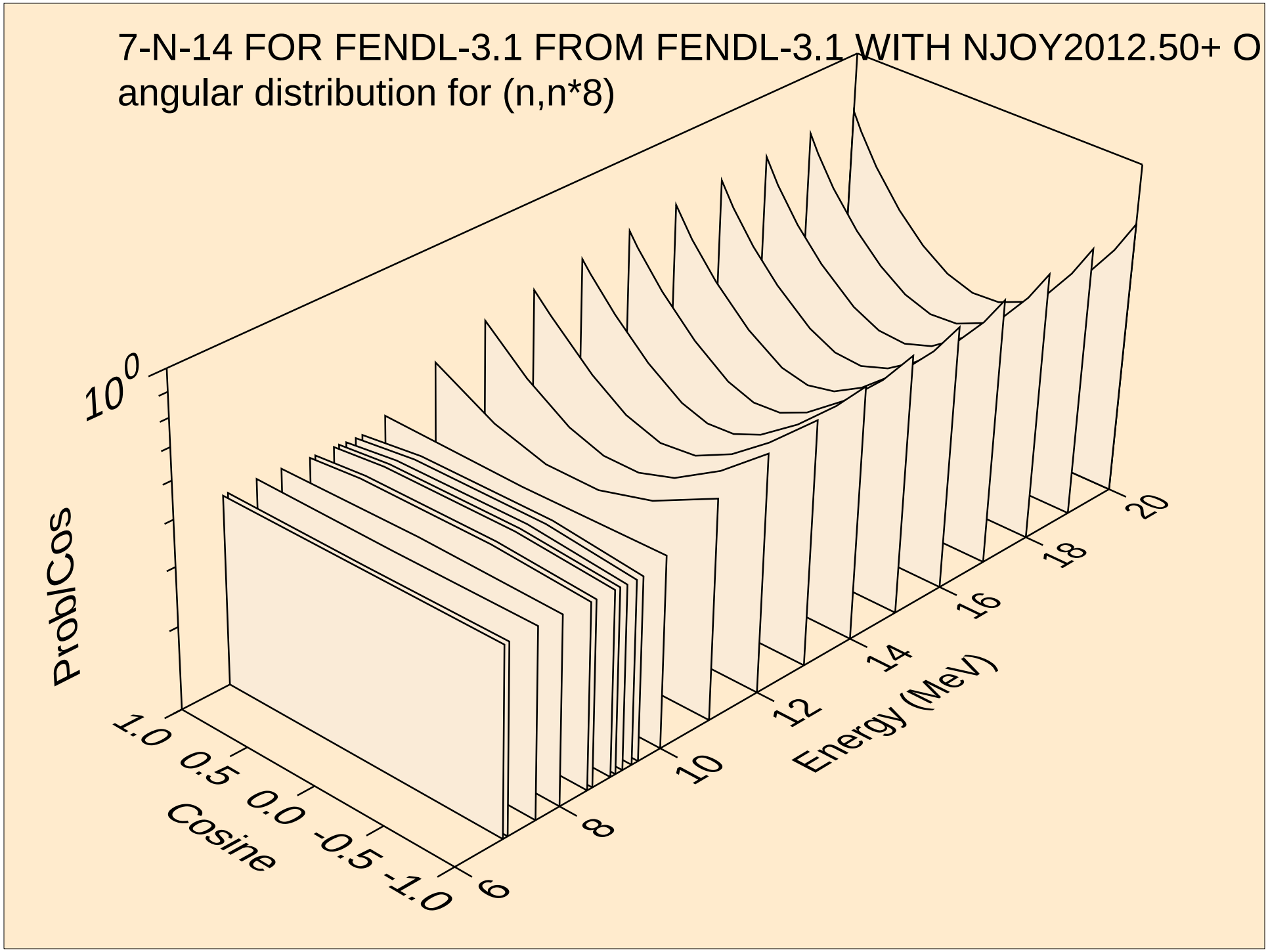

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*3)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

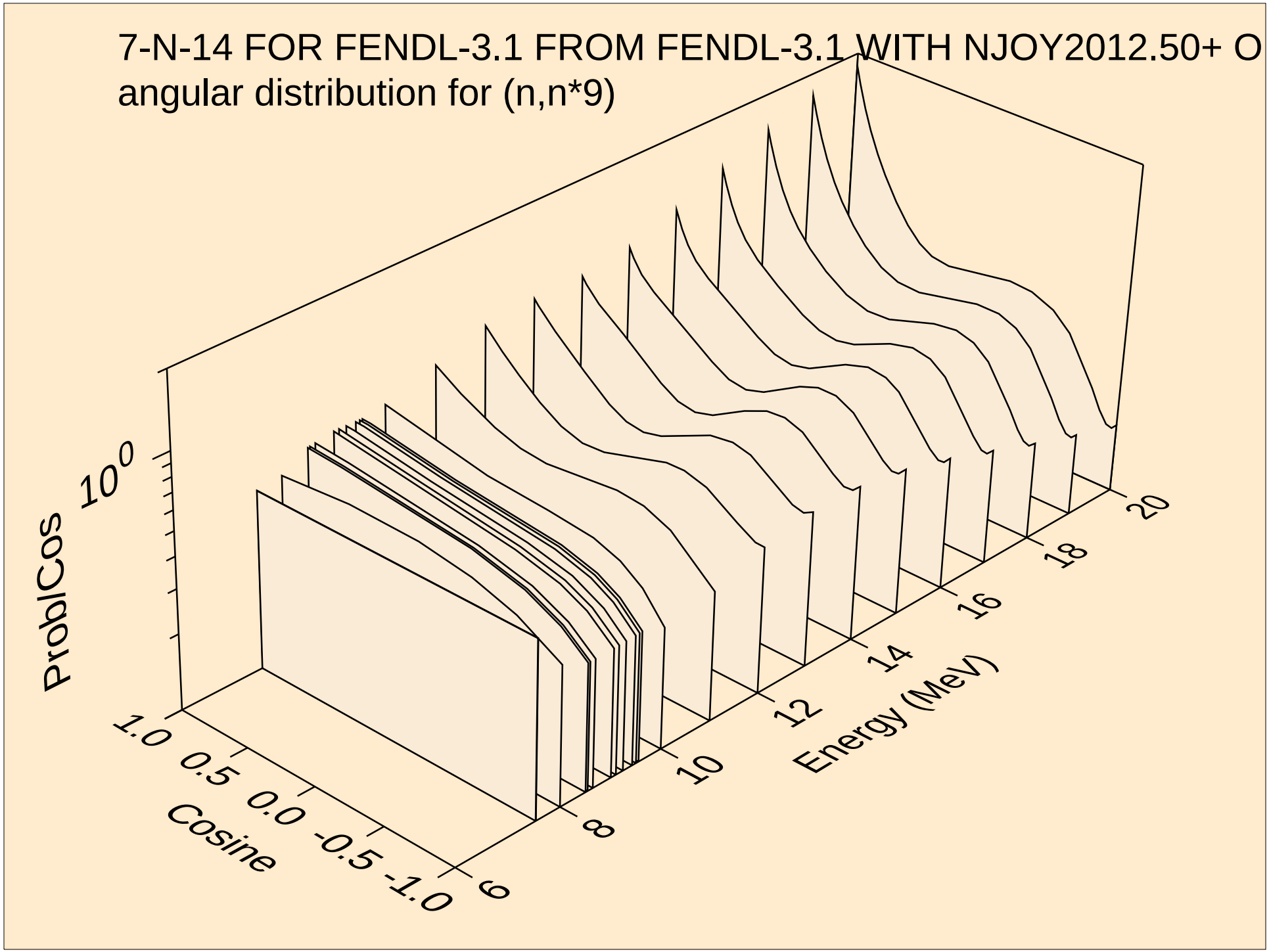

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*4)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

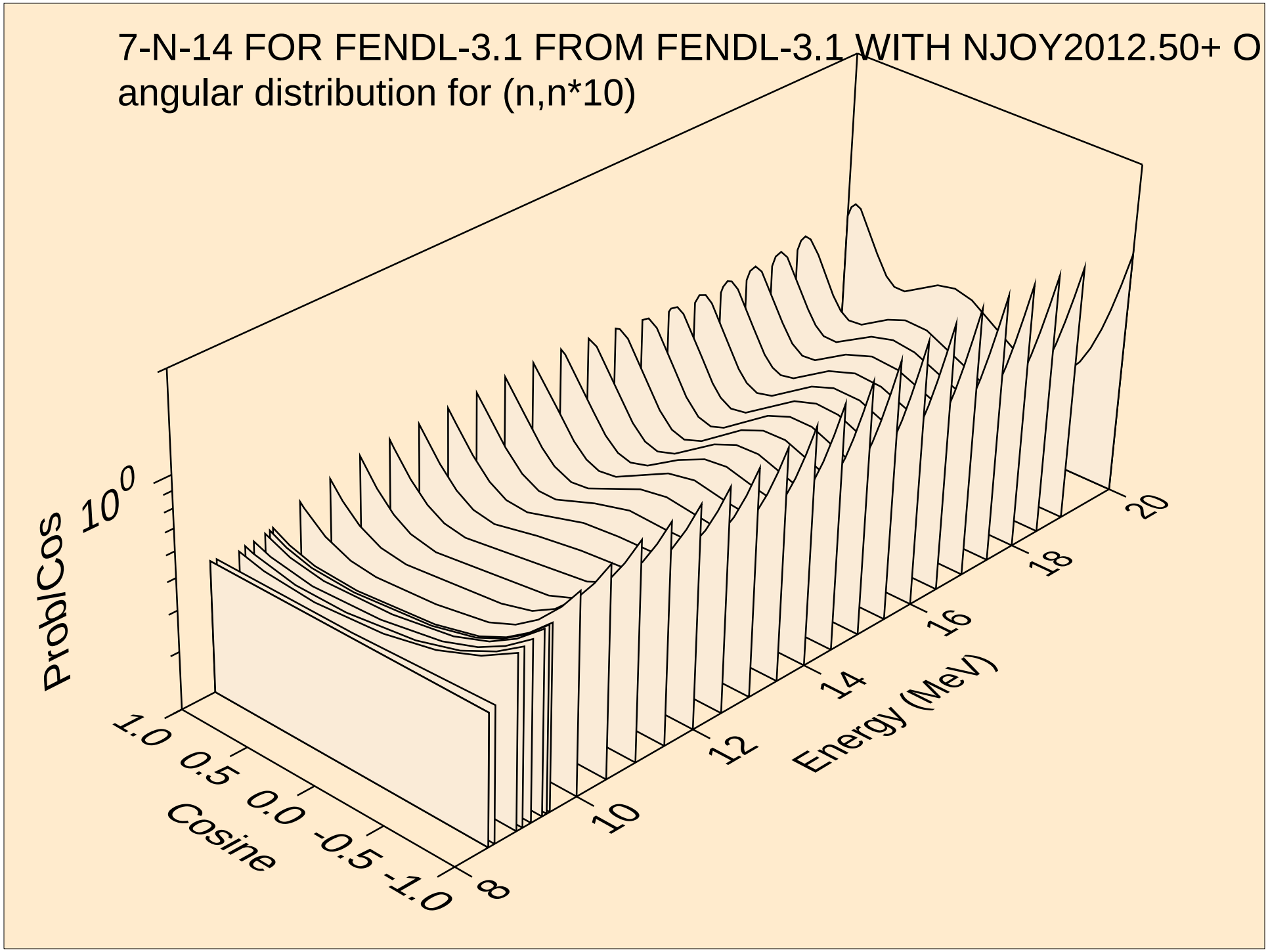

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*5)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

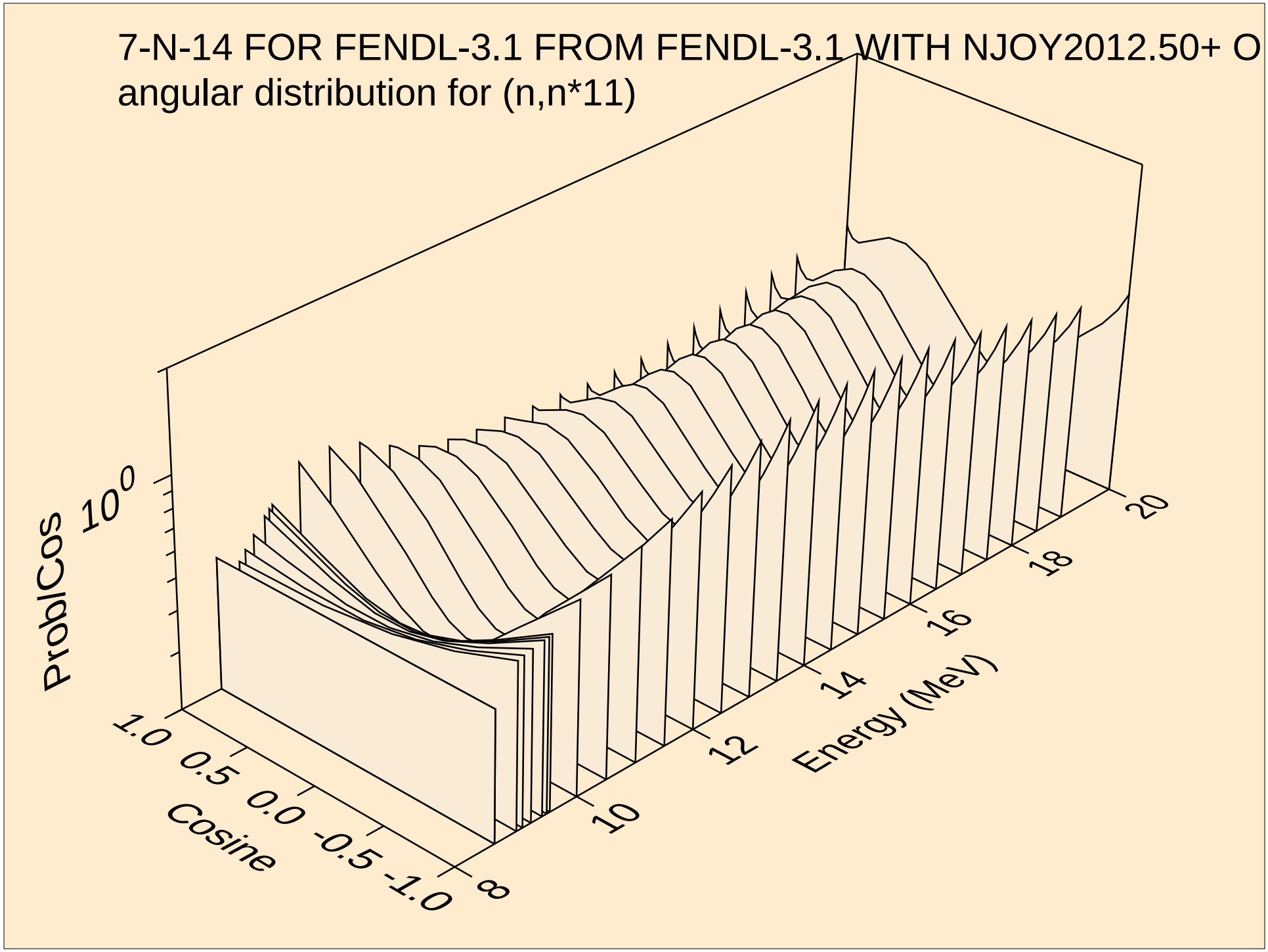

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*6)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

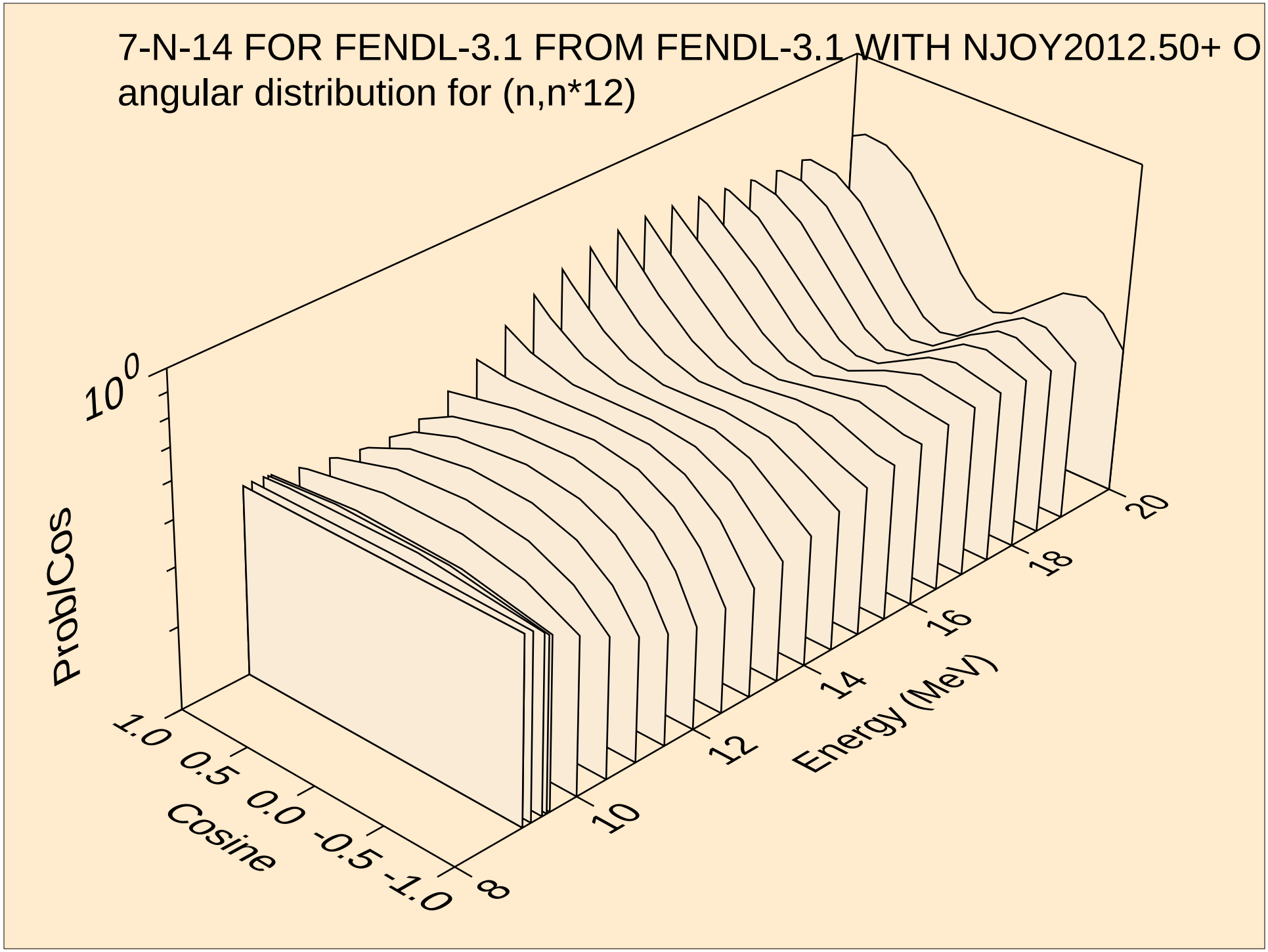

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*7)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

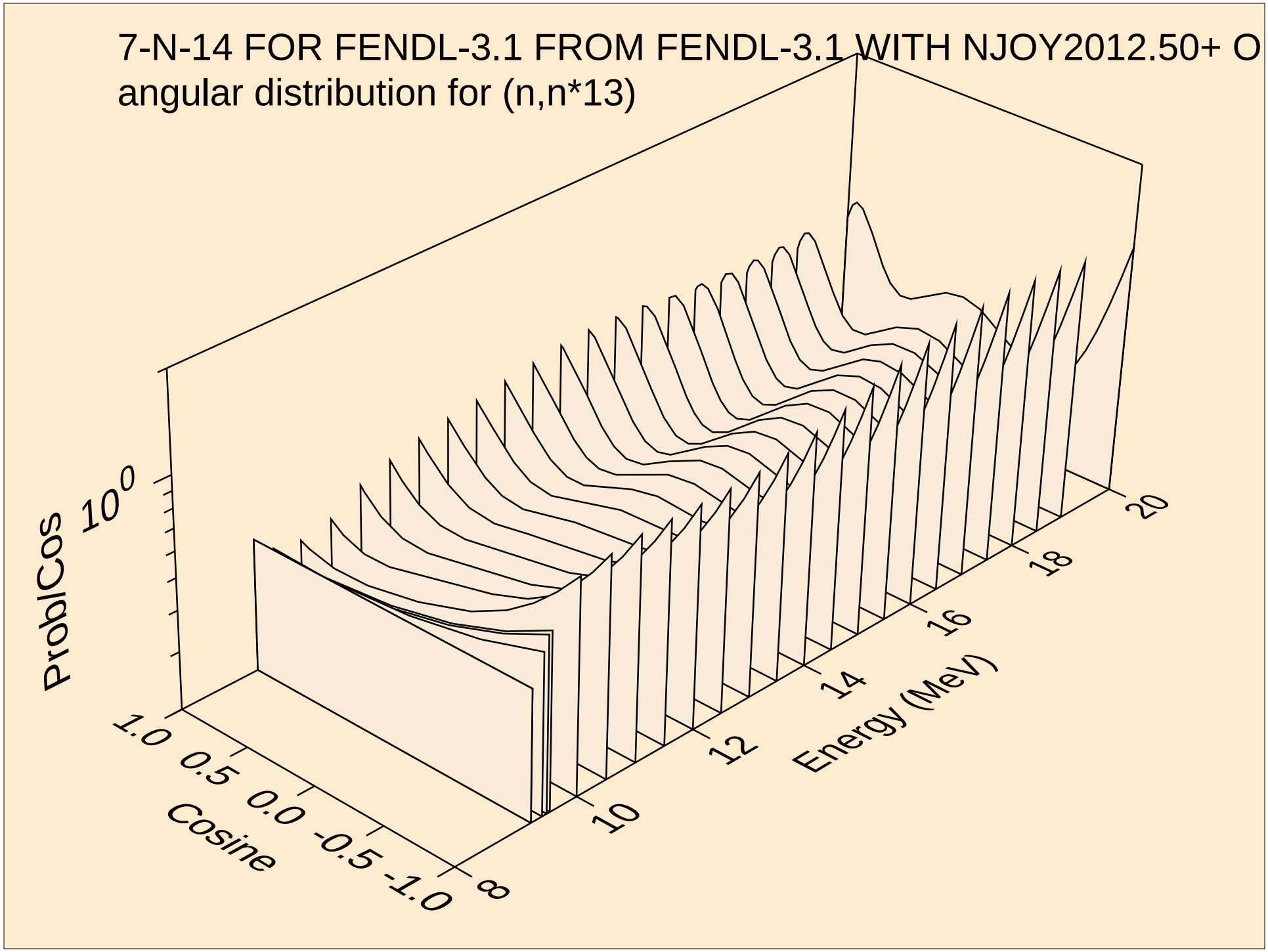

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*8)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

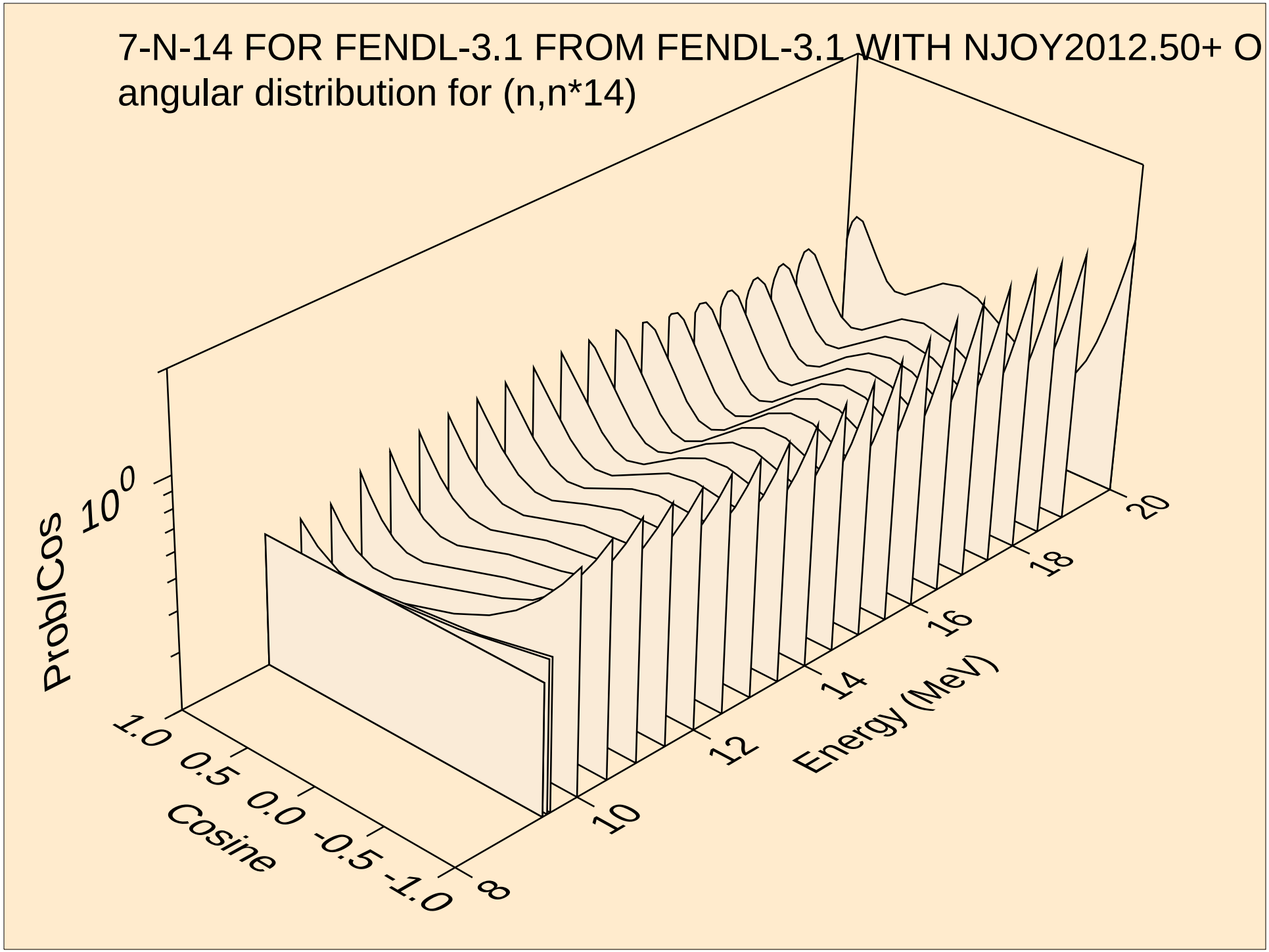

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*9)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

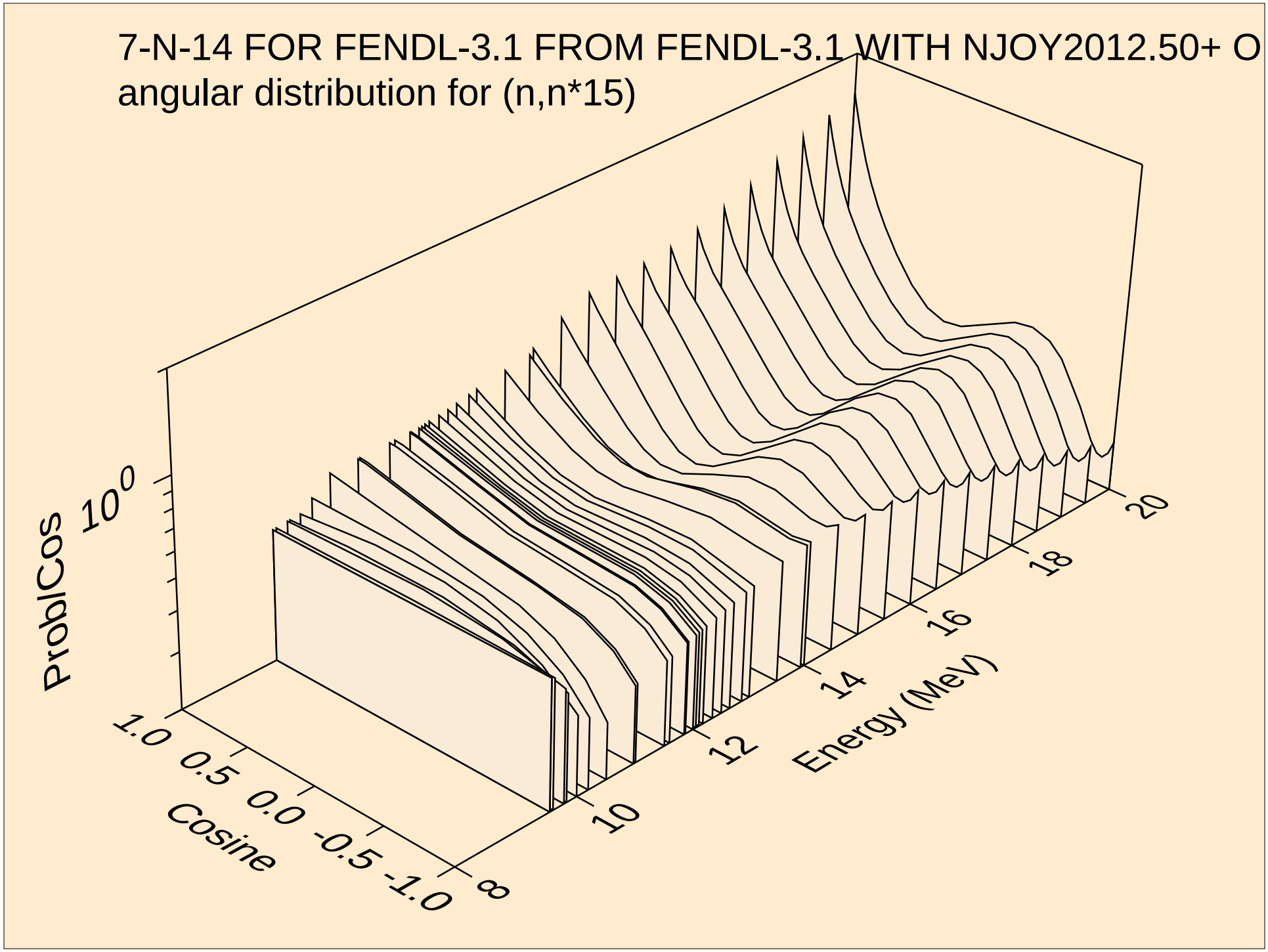

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*10)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

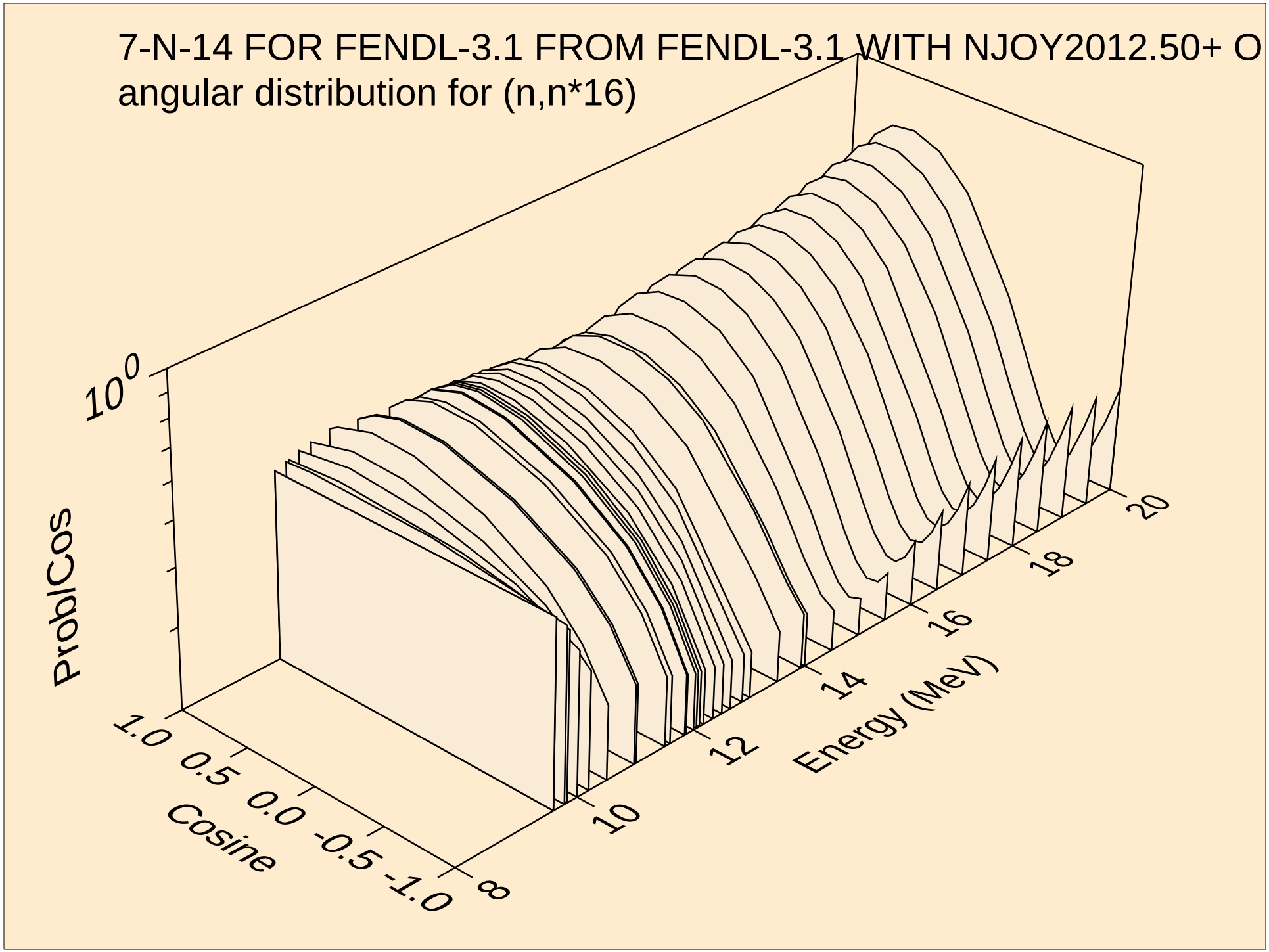

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*11)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

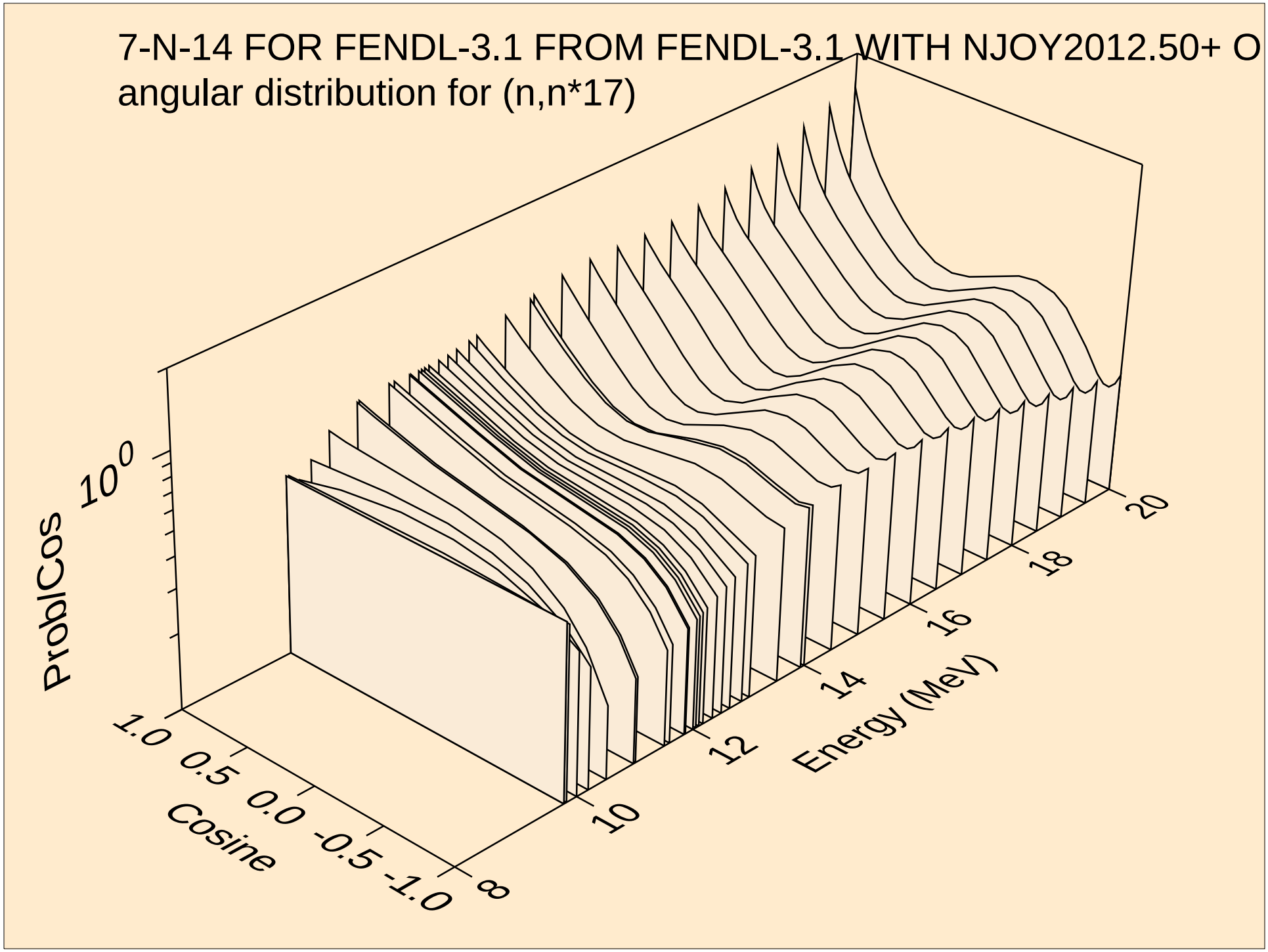

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*12)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

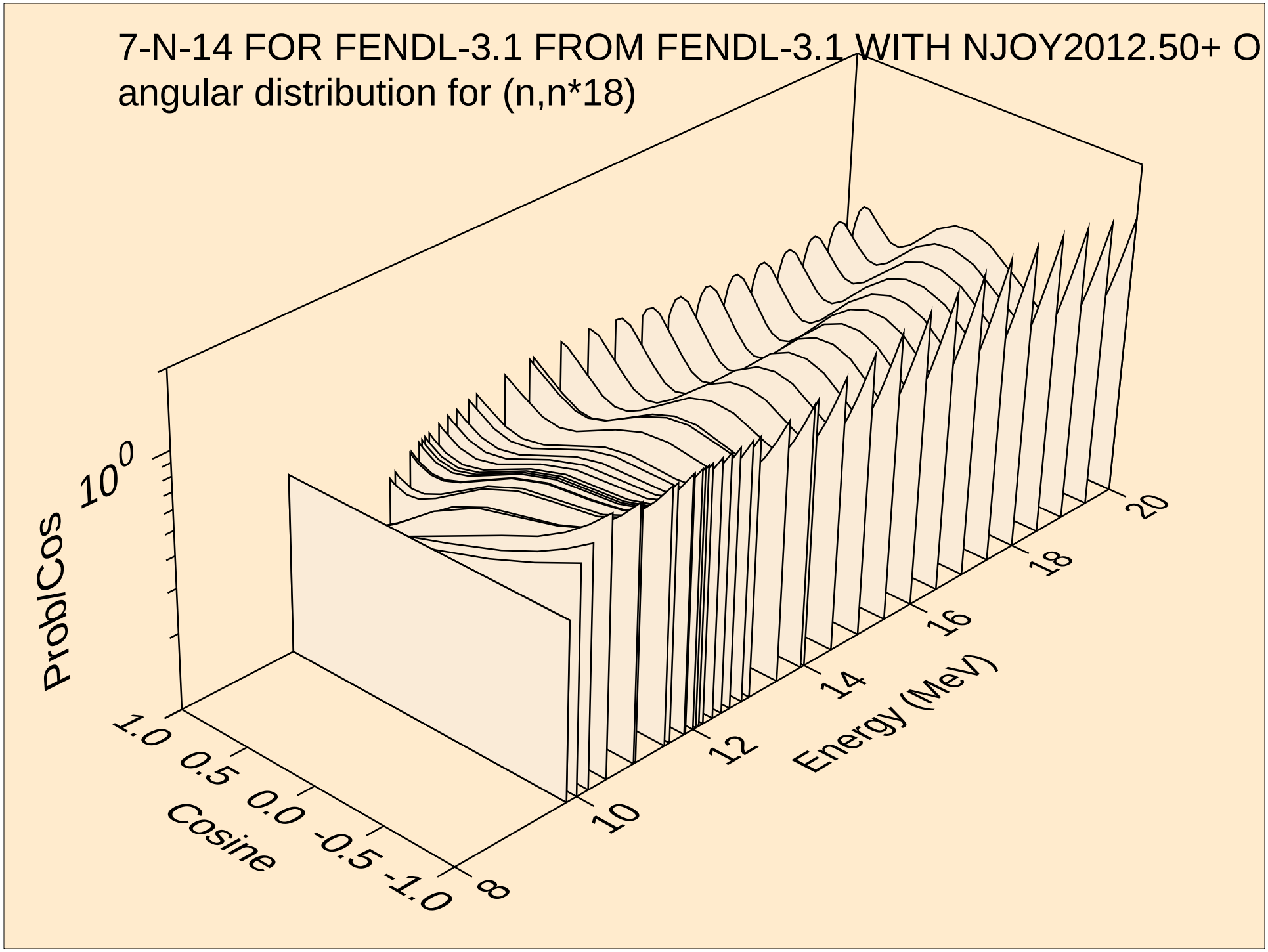

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*13)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

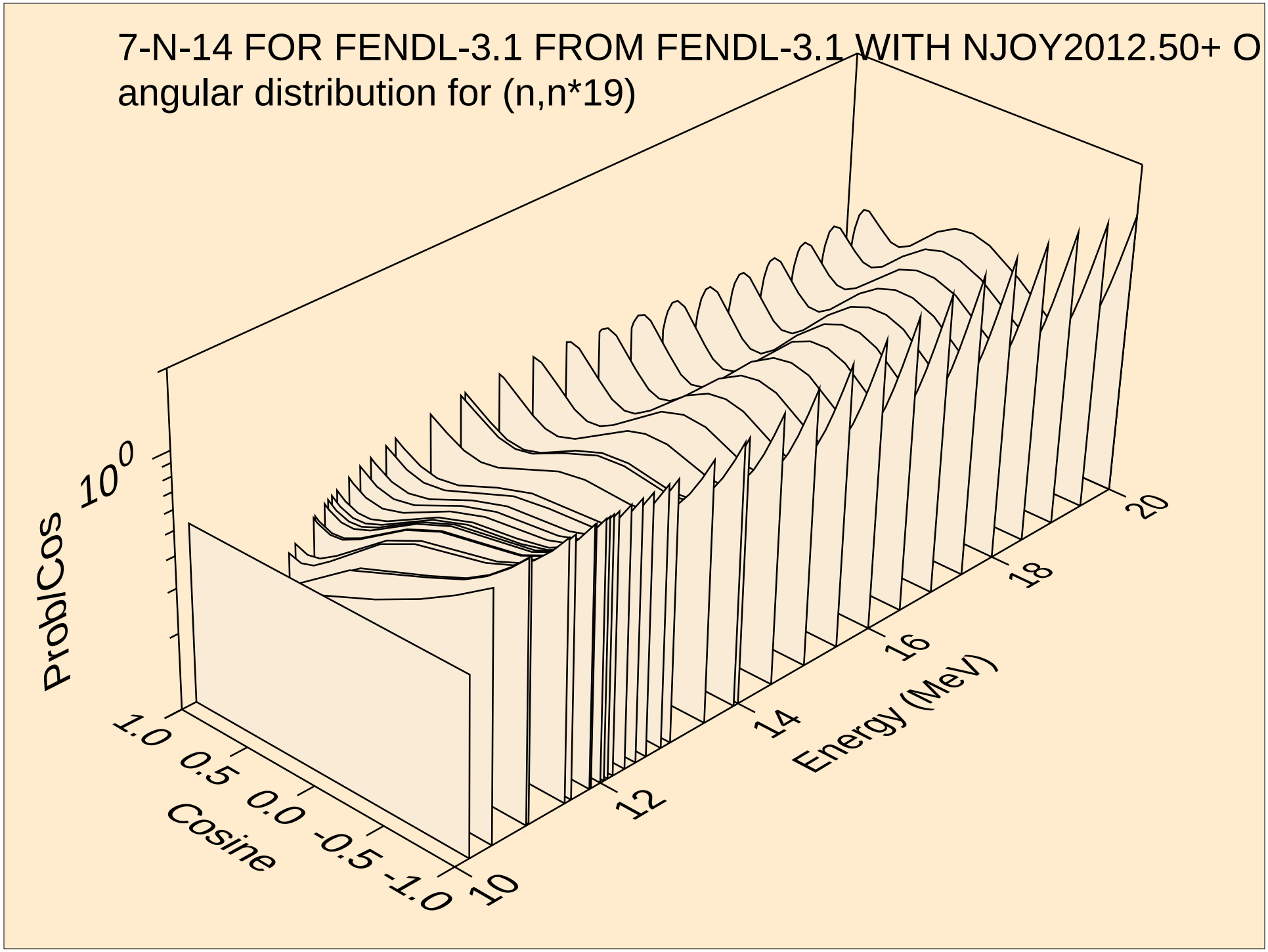

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*14)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

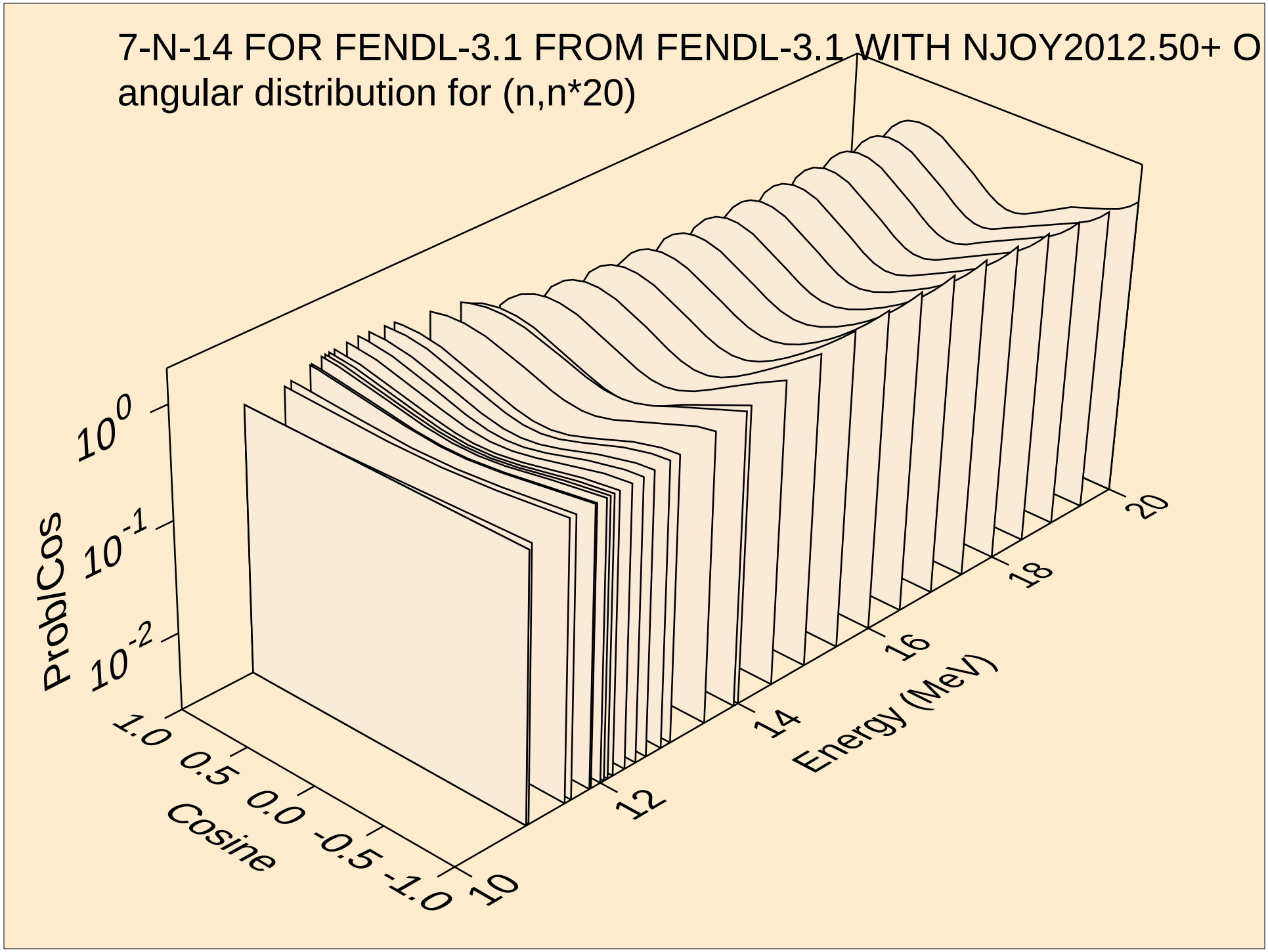

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*15)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

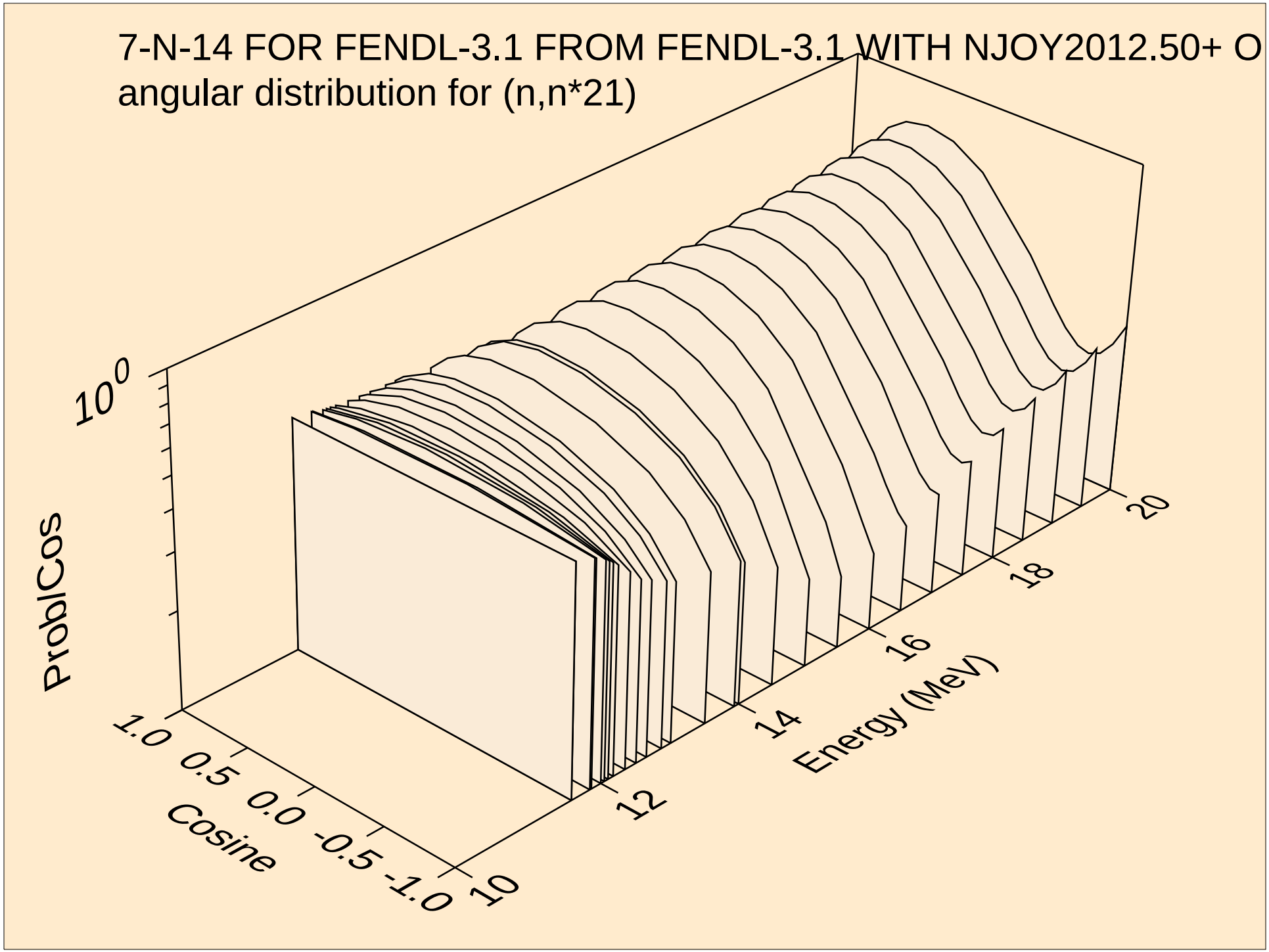

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*16)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

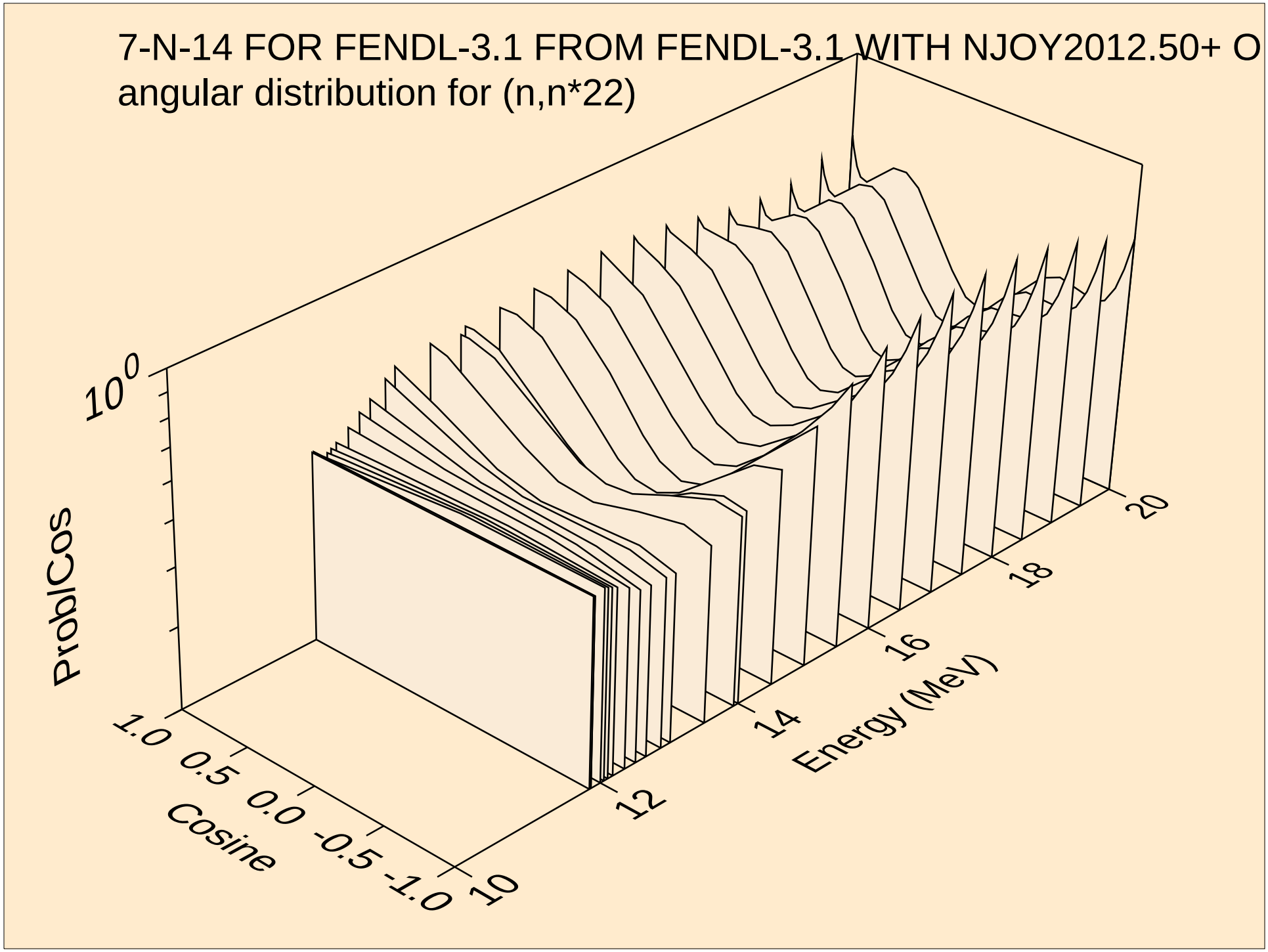

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*17)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

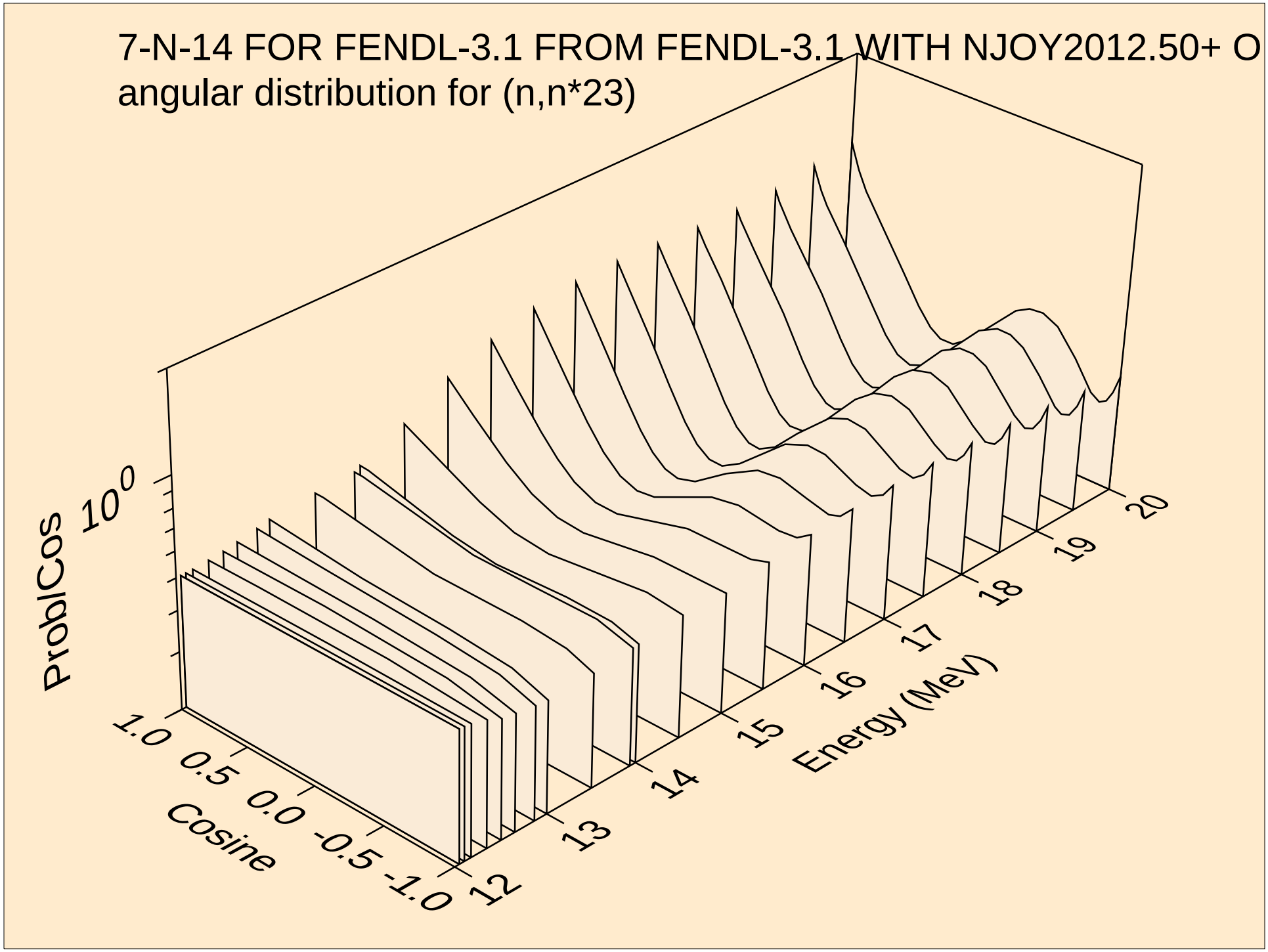

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*18)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

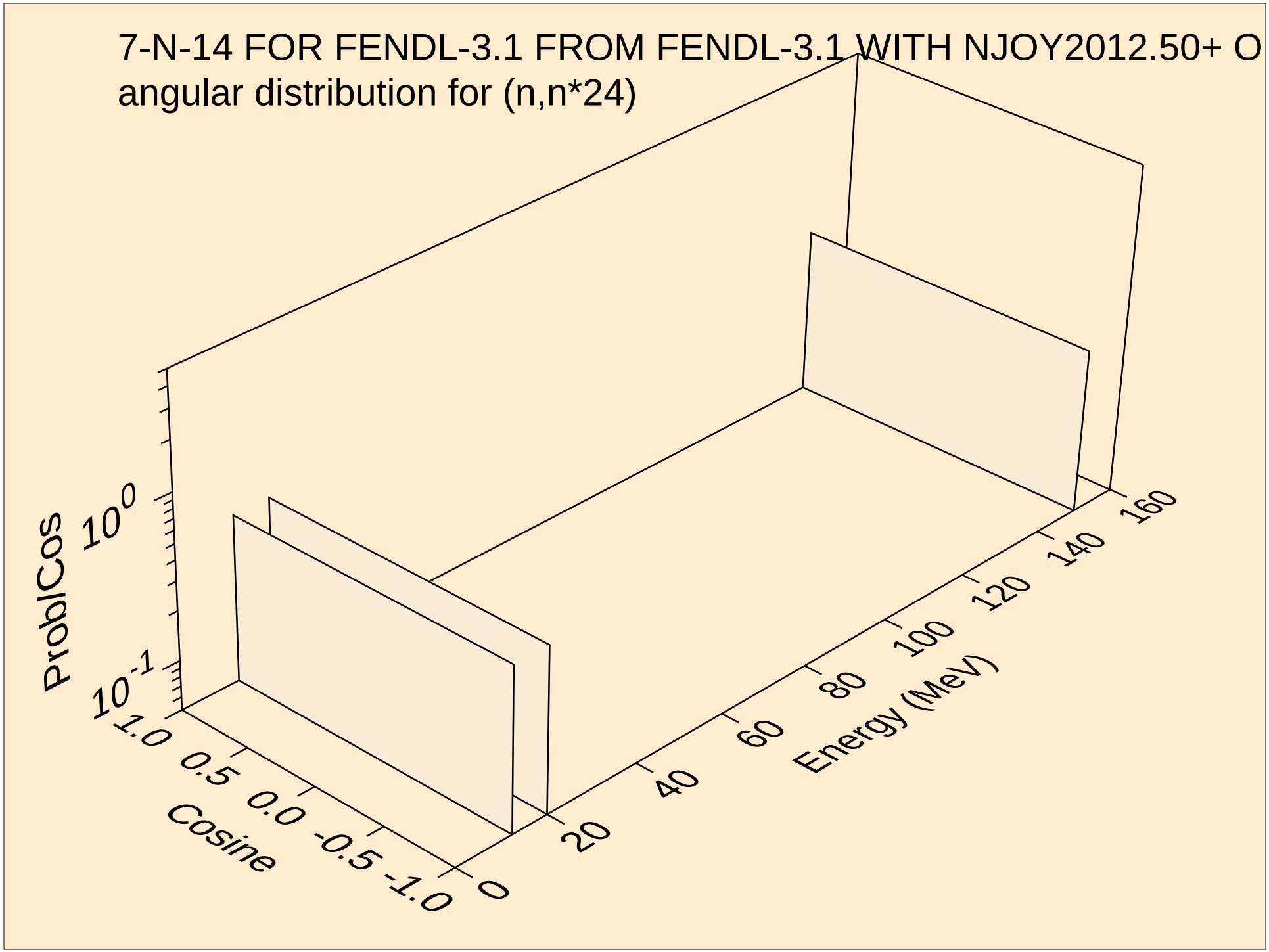

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*19)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
10
12
14
16
18
20
Energy (MeV)

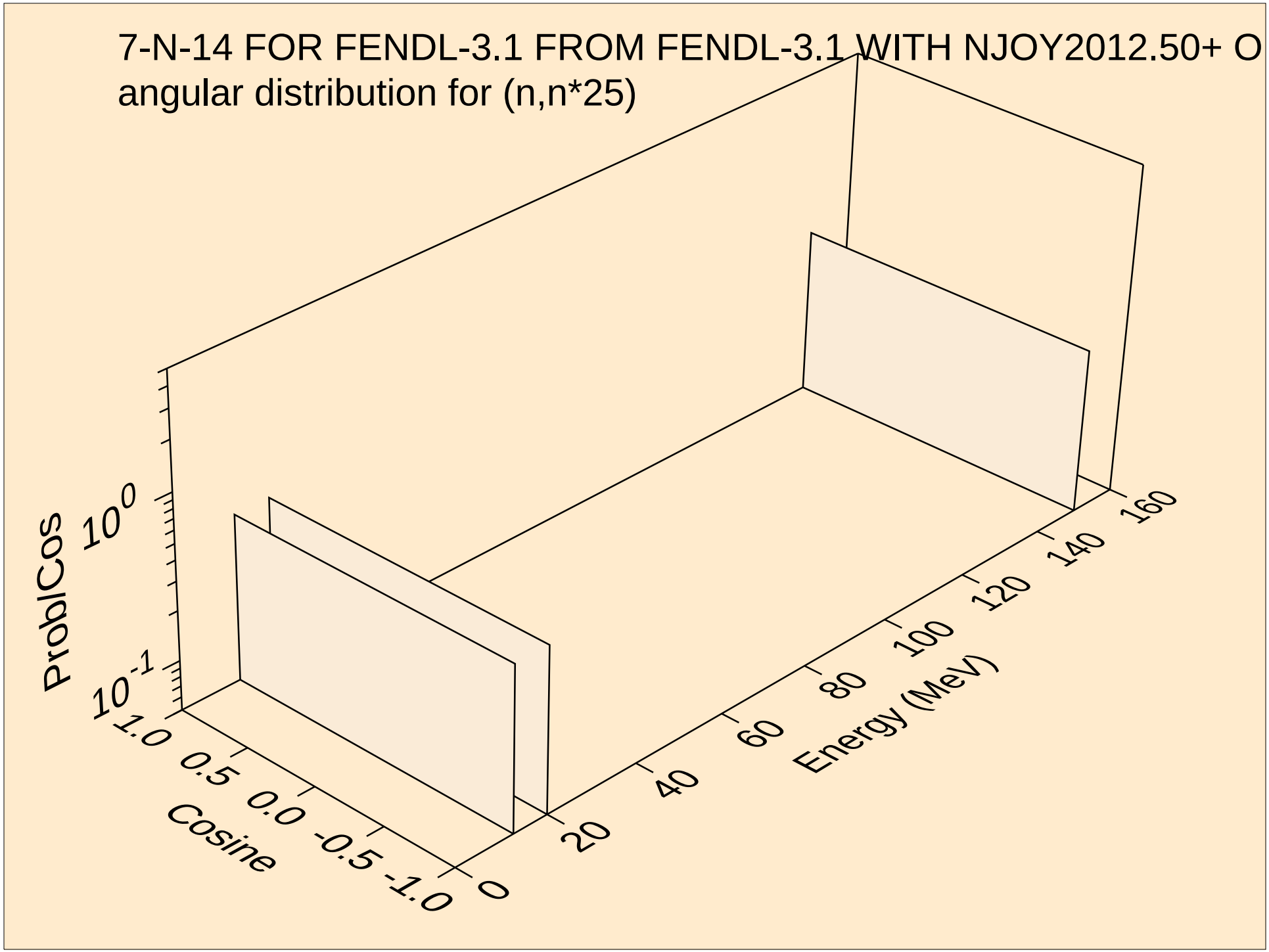

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*20)
ProbICos
10^0
10^-1
10^-2
1.0
0.5
0.0
-0.5
-1.0
Cosine
10
12
14
16
18
20
Energy (MeV)

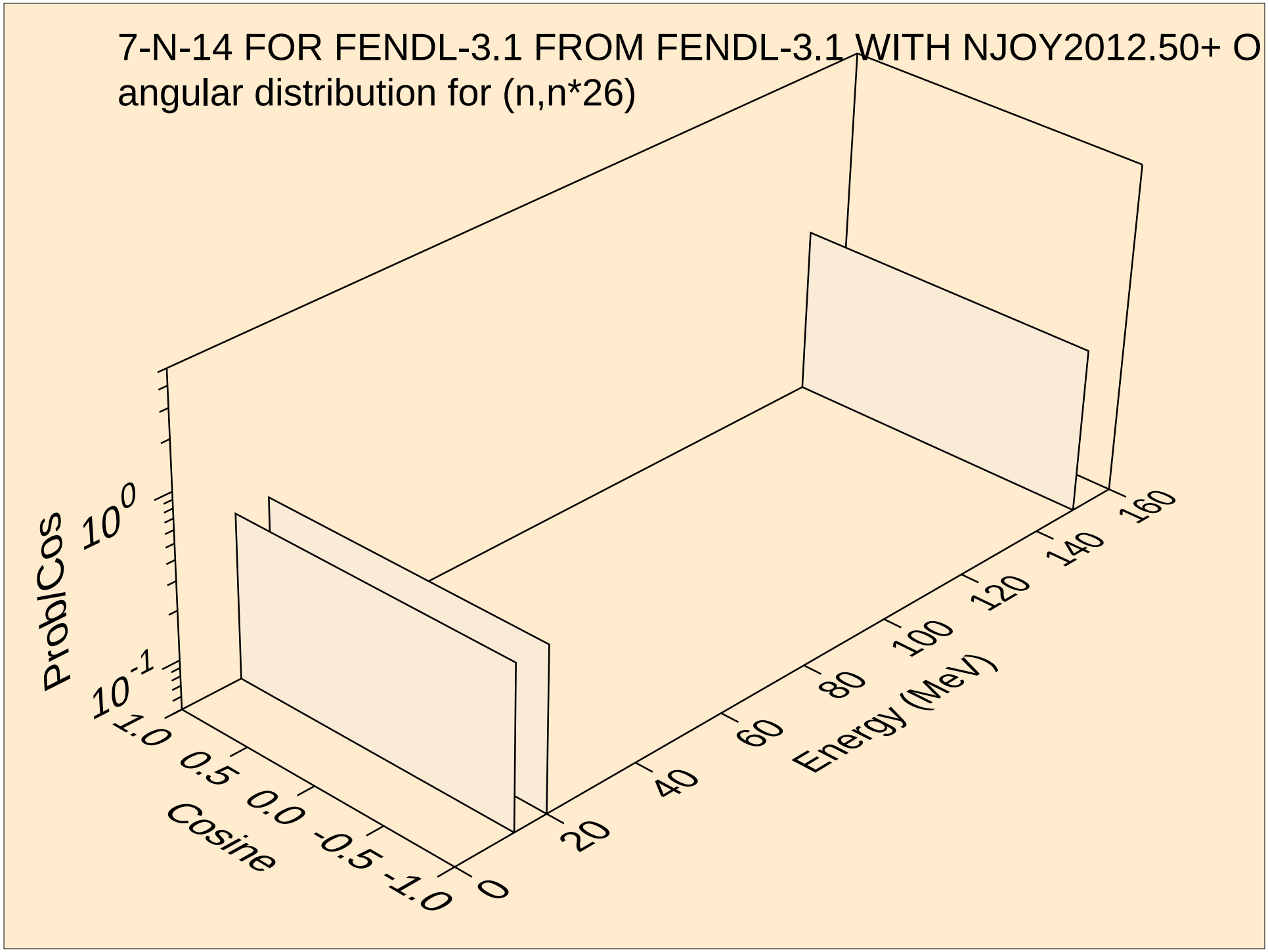

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*21)
10^0
ProblCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
10
12
14
16
18
20
Energy (MeV)

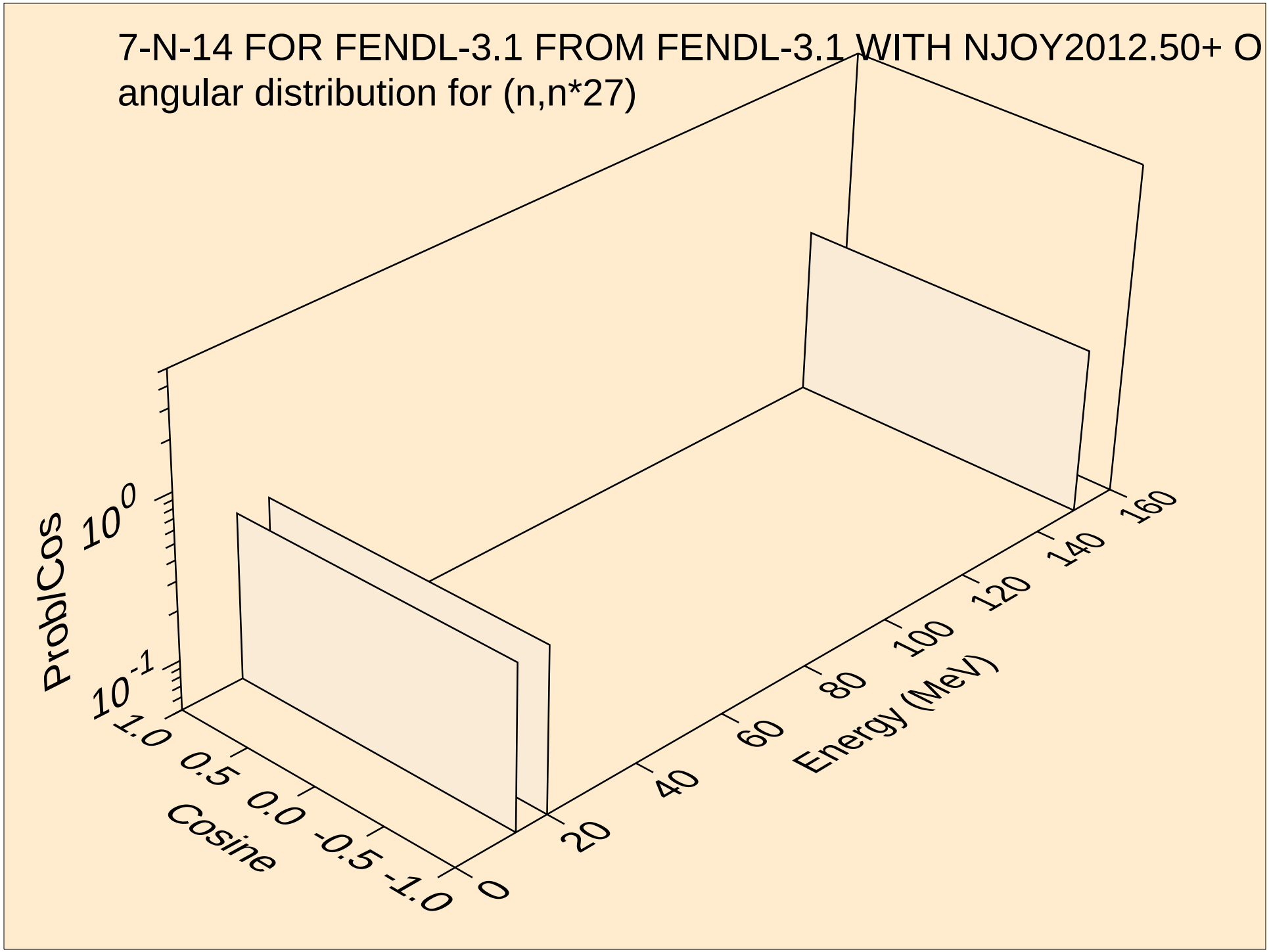

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*22)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
10
12
14
16
18
20
Energy (MeV)

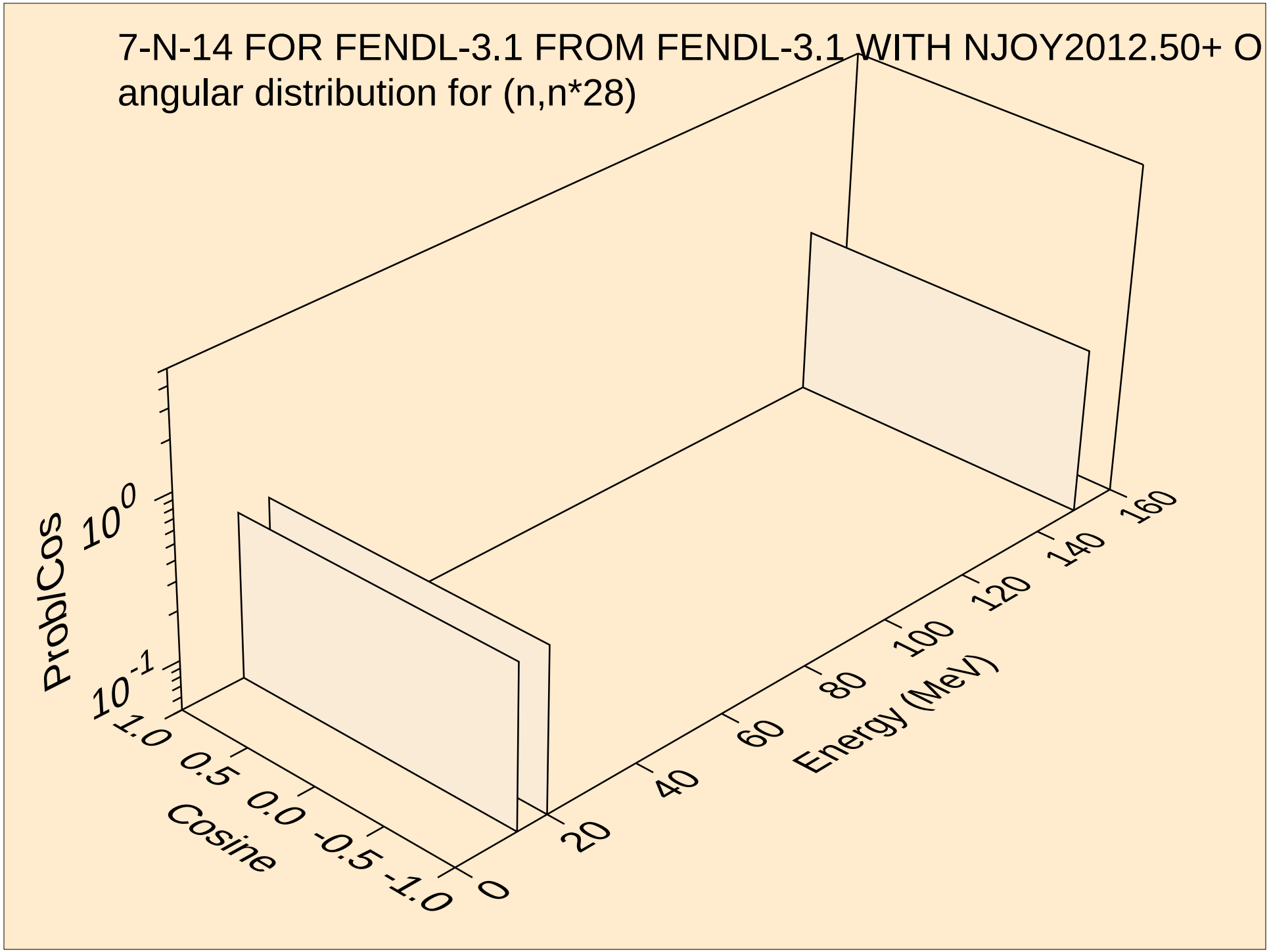

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*23)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
12
13
14
15
16
17
18
19
20
Energy (MeV)

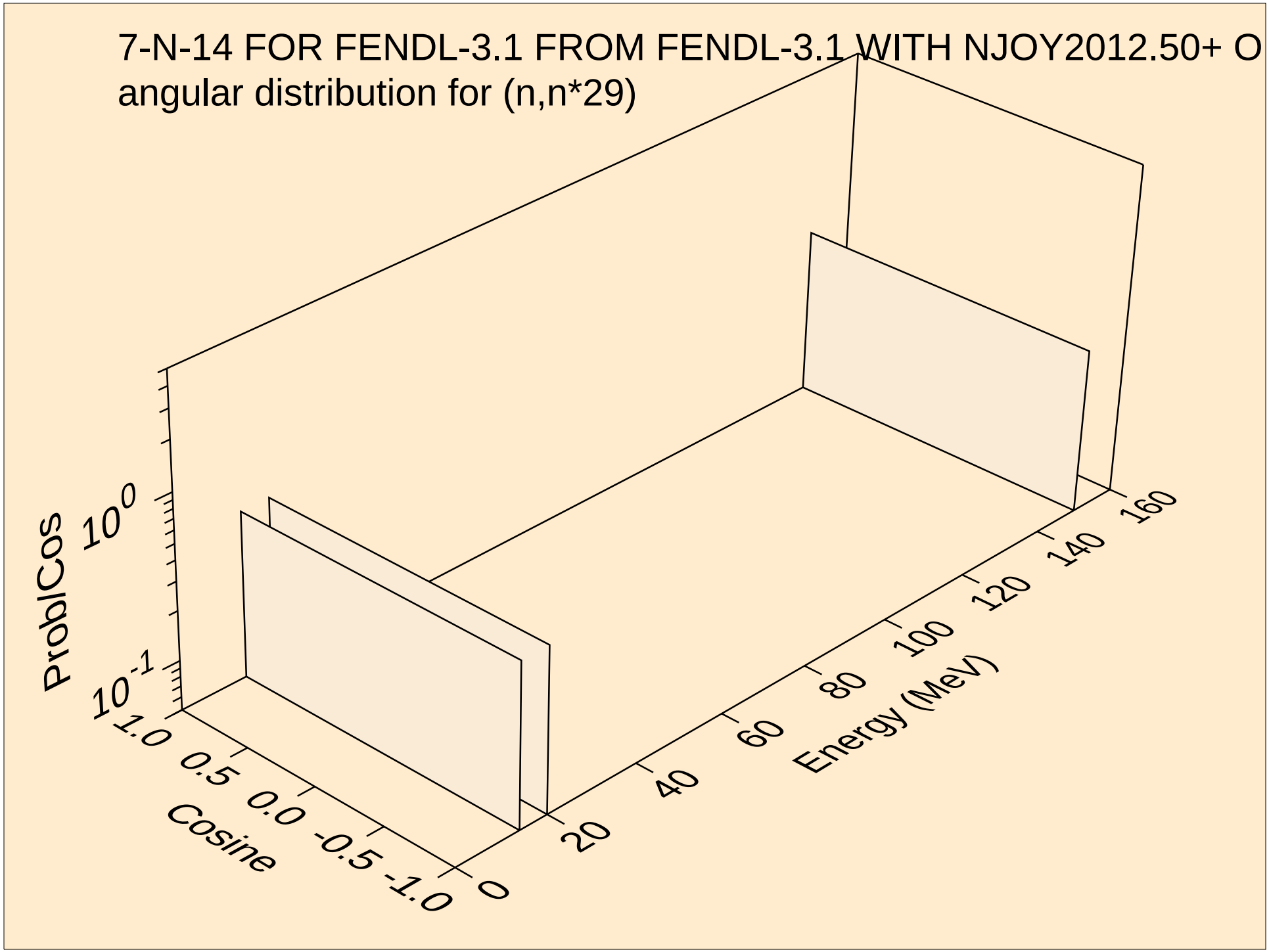

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*24)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

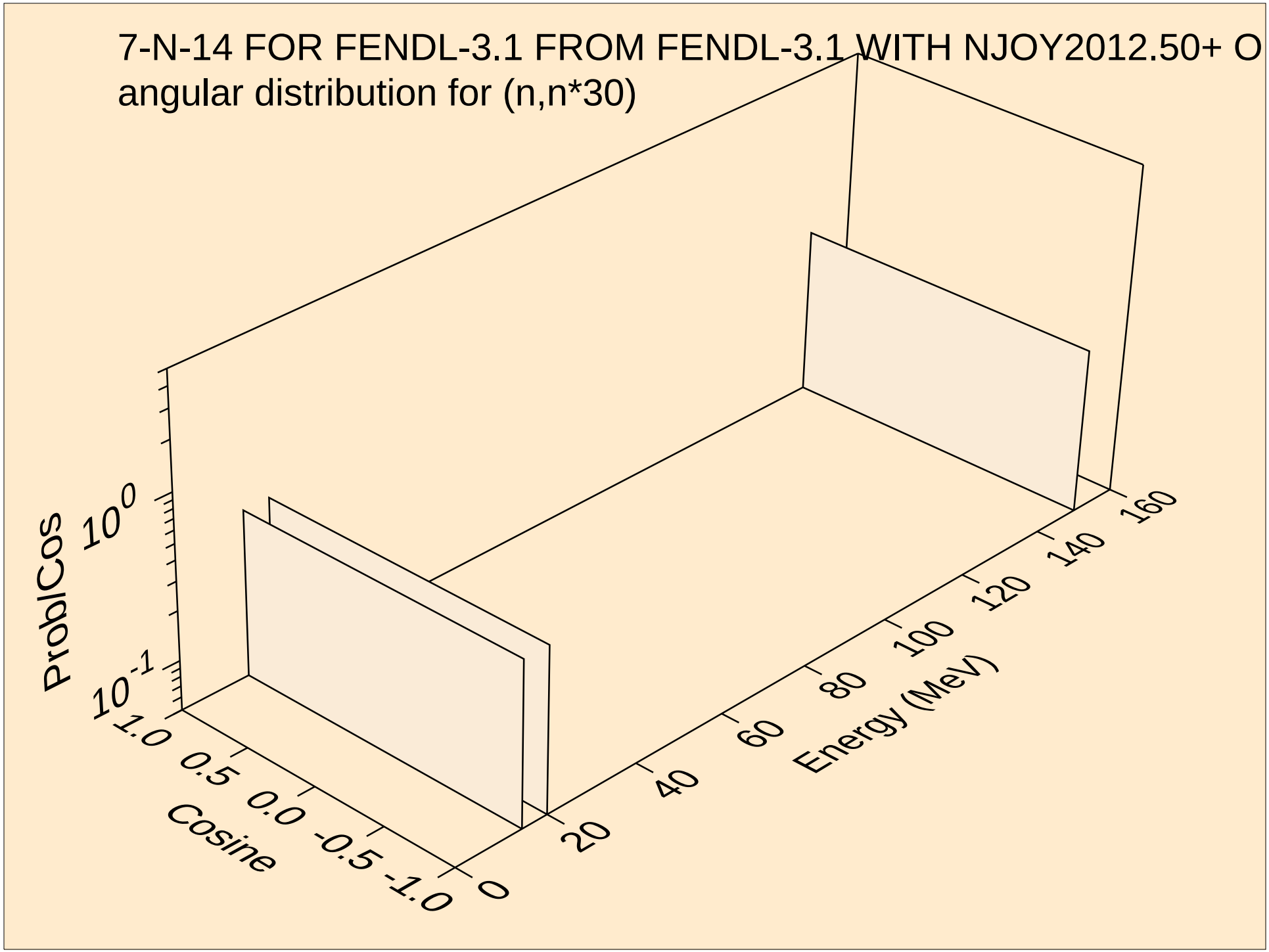

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*25)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

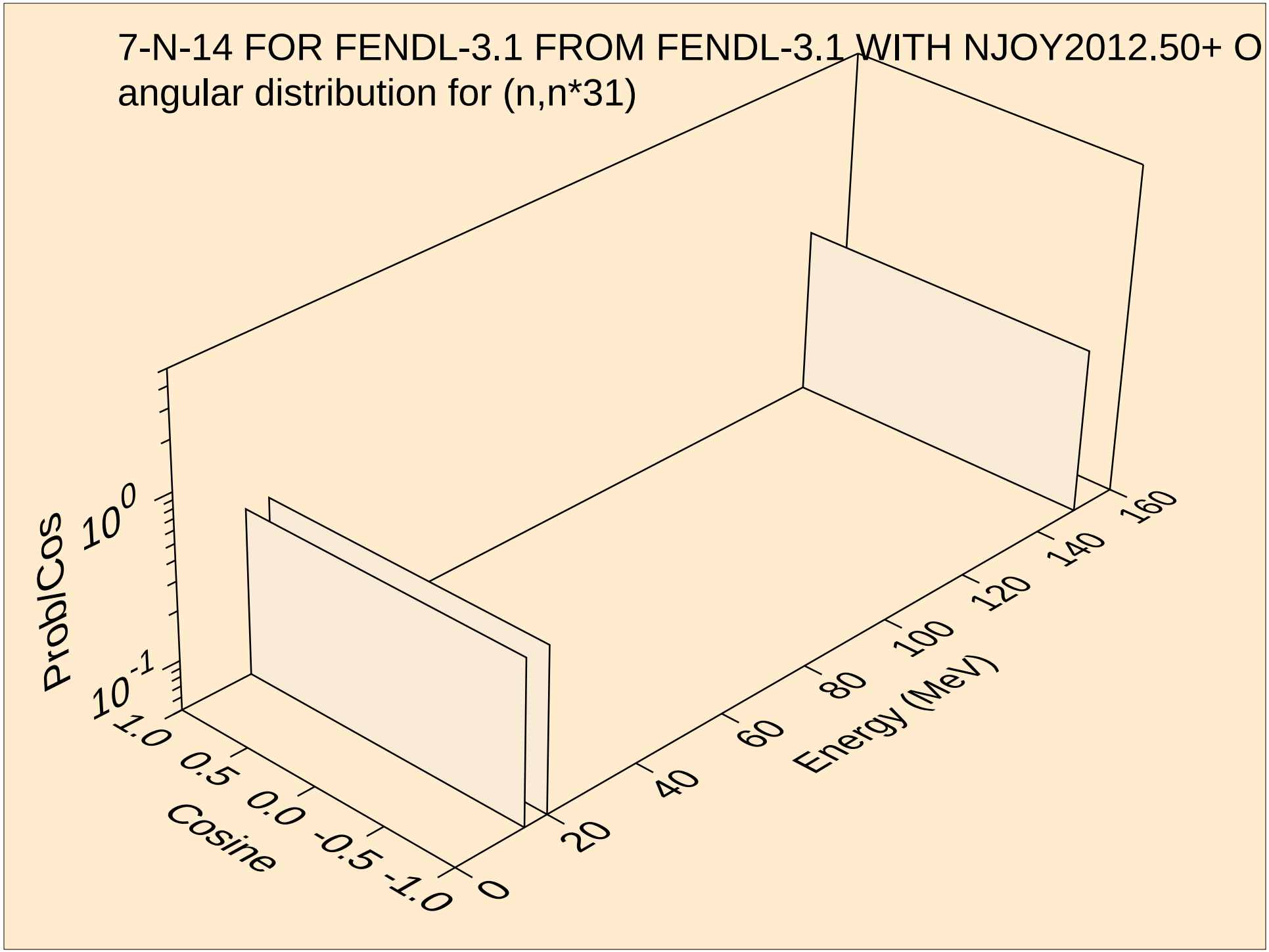

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*26)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

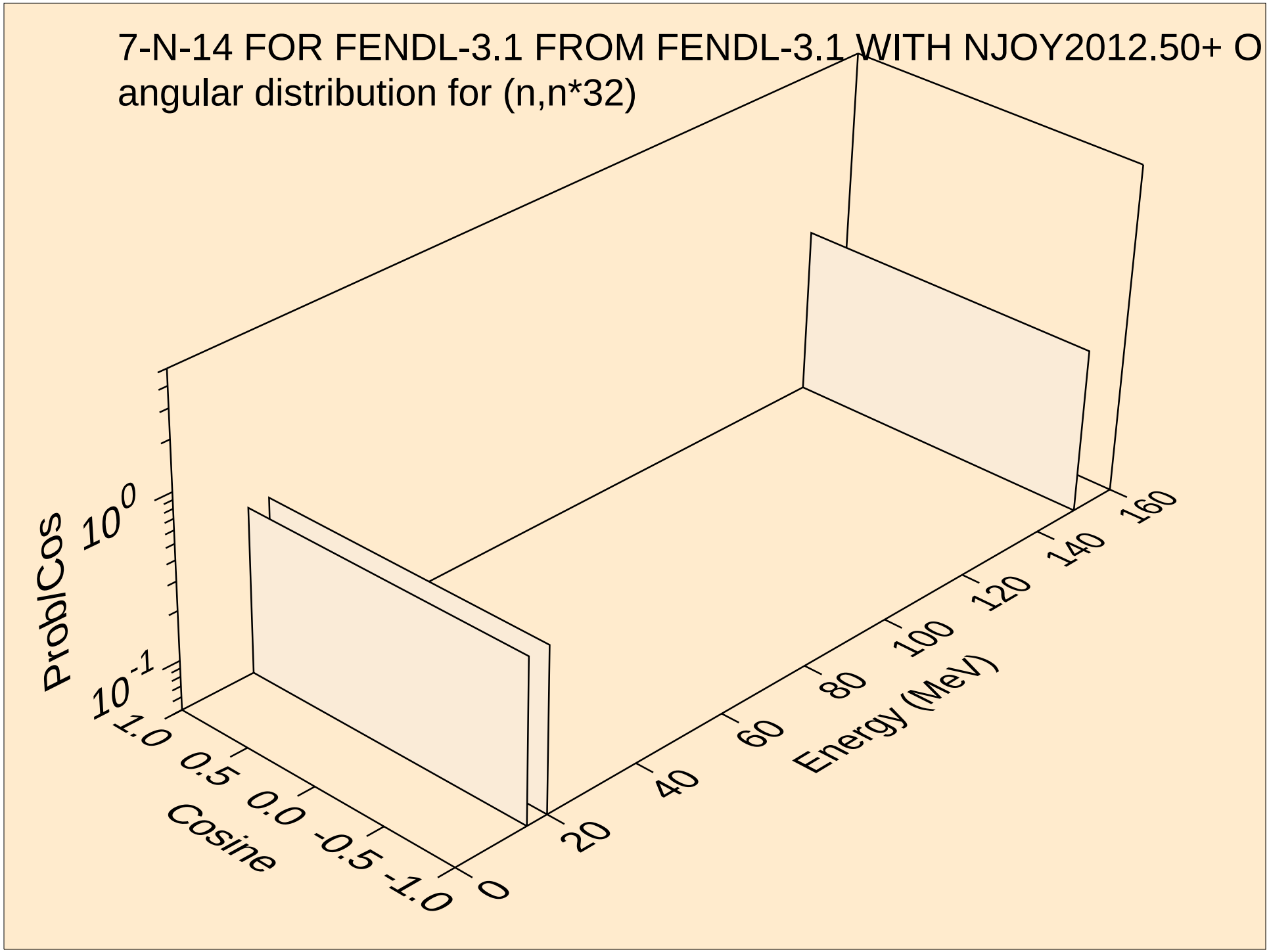

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*27)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

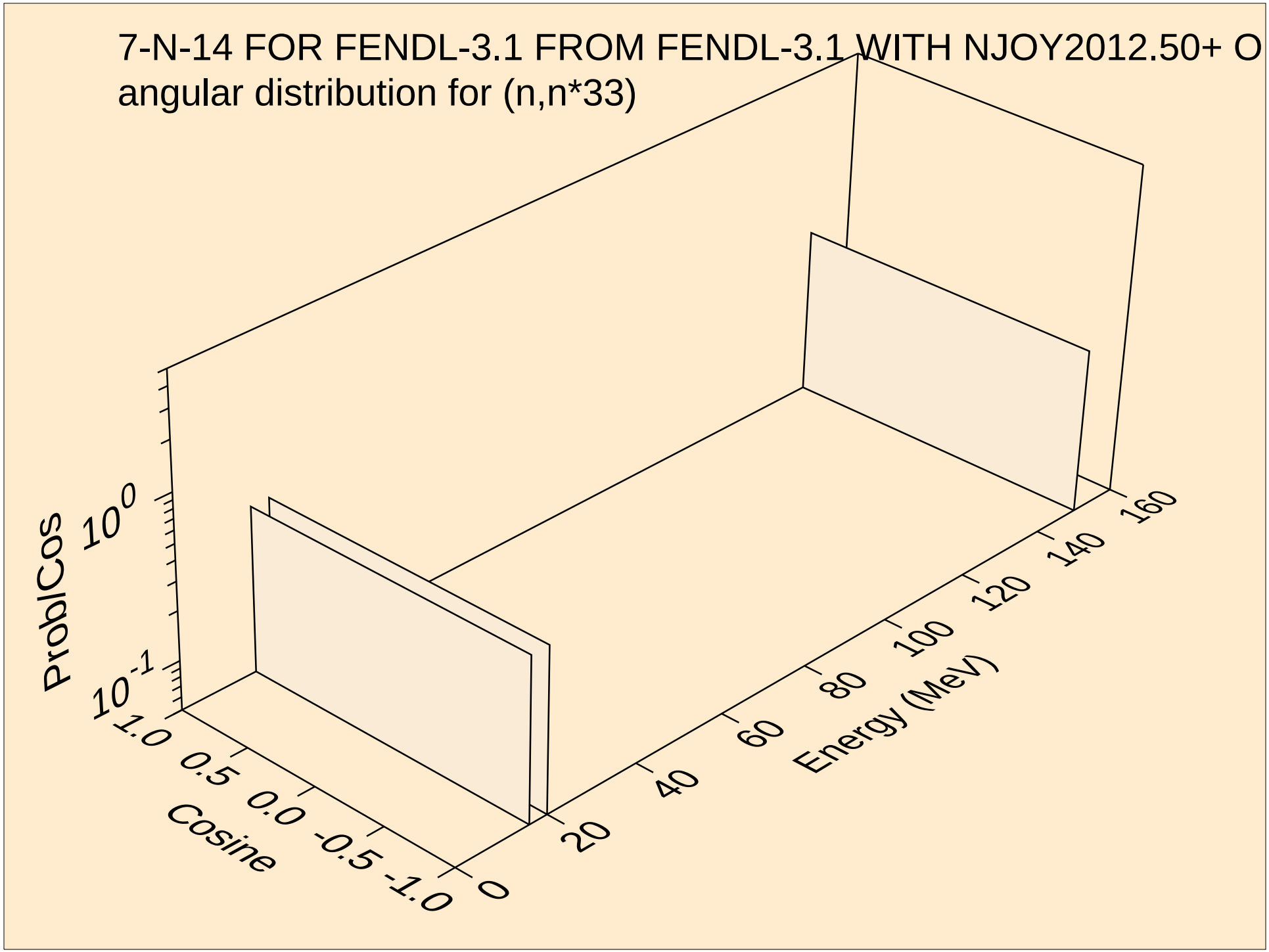

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*28)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

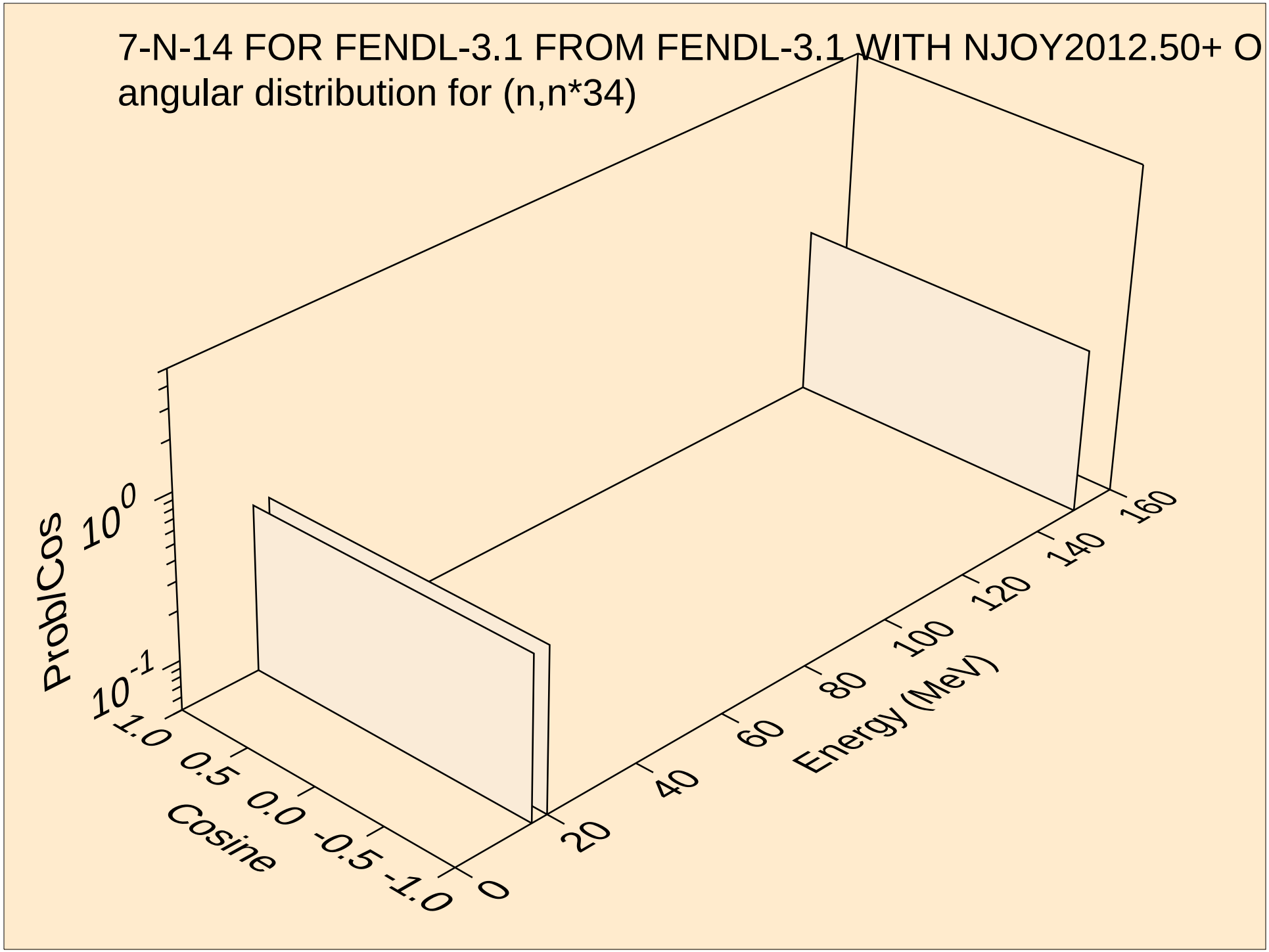

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*29)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

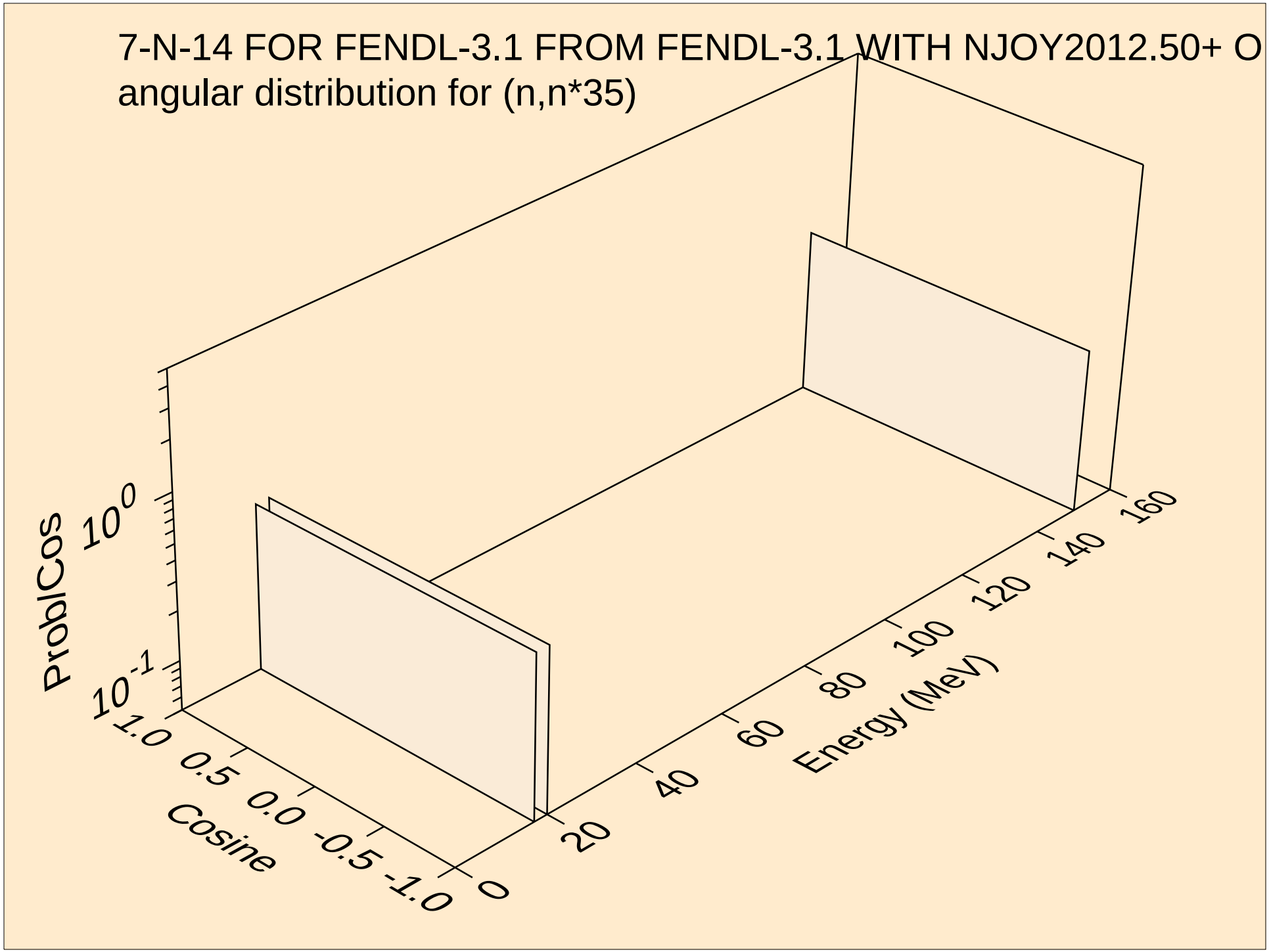

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*30)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

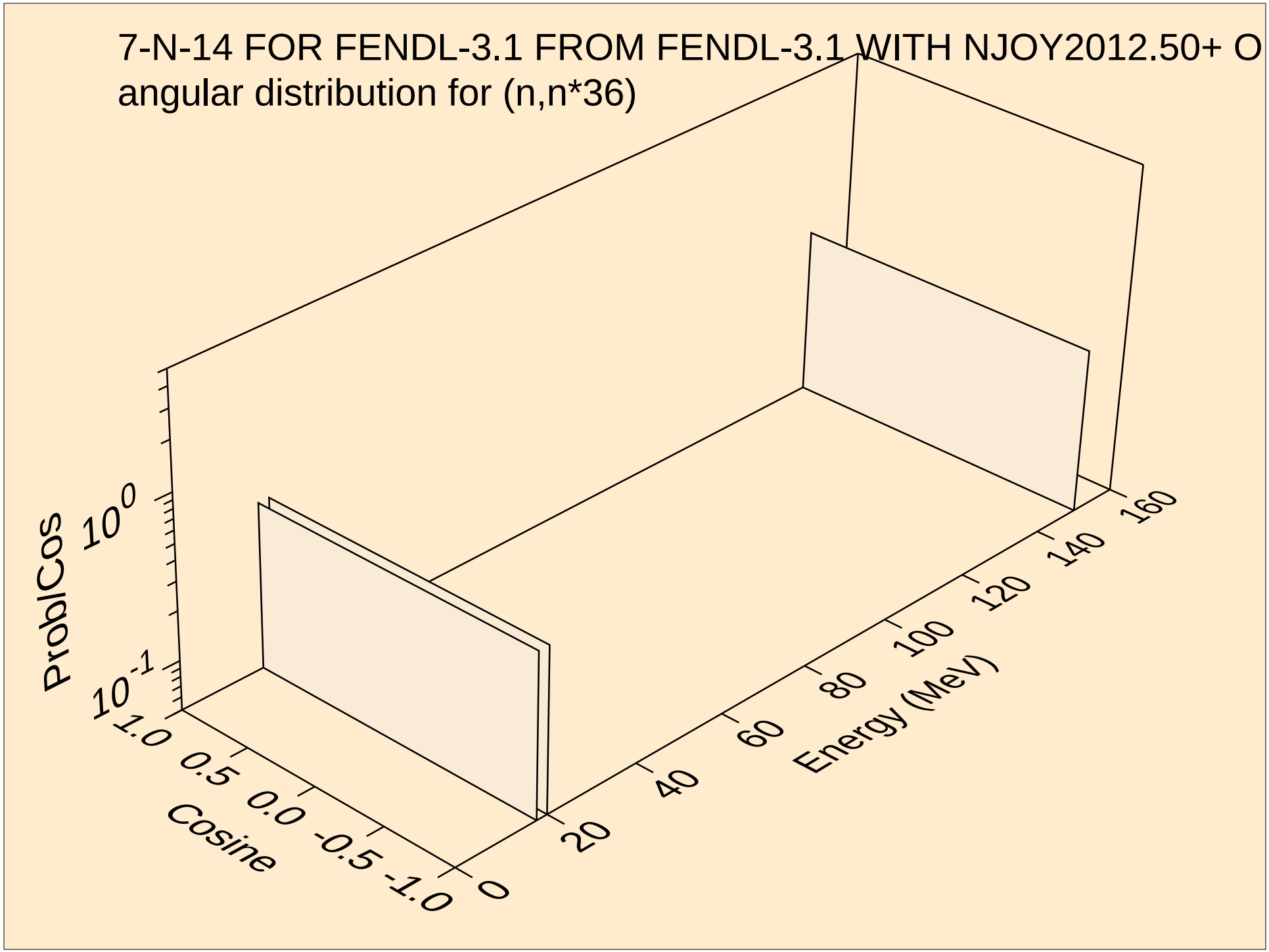

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*31)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

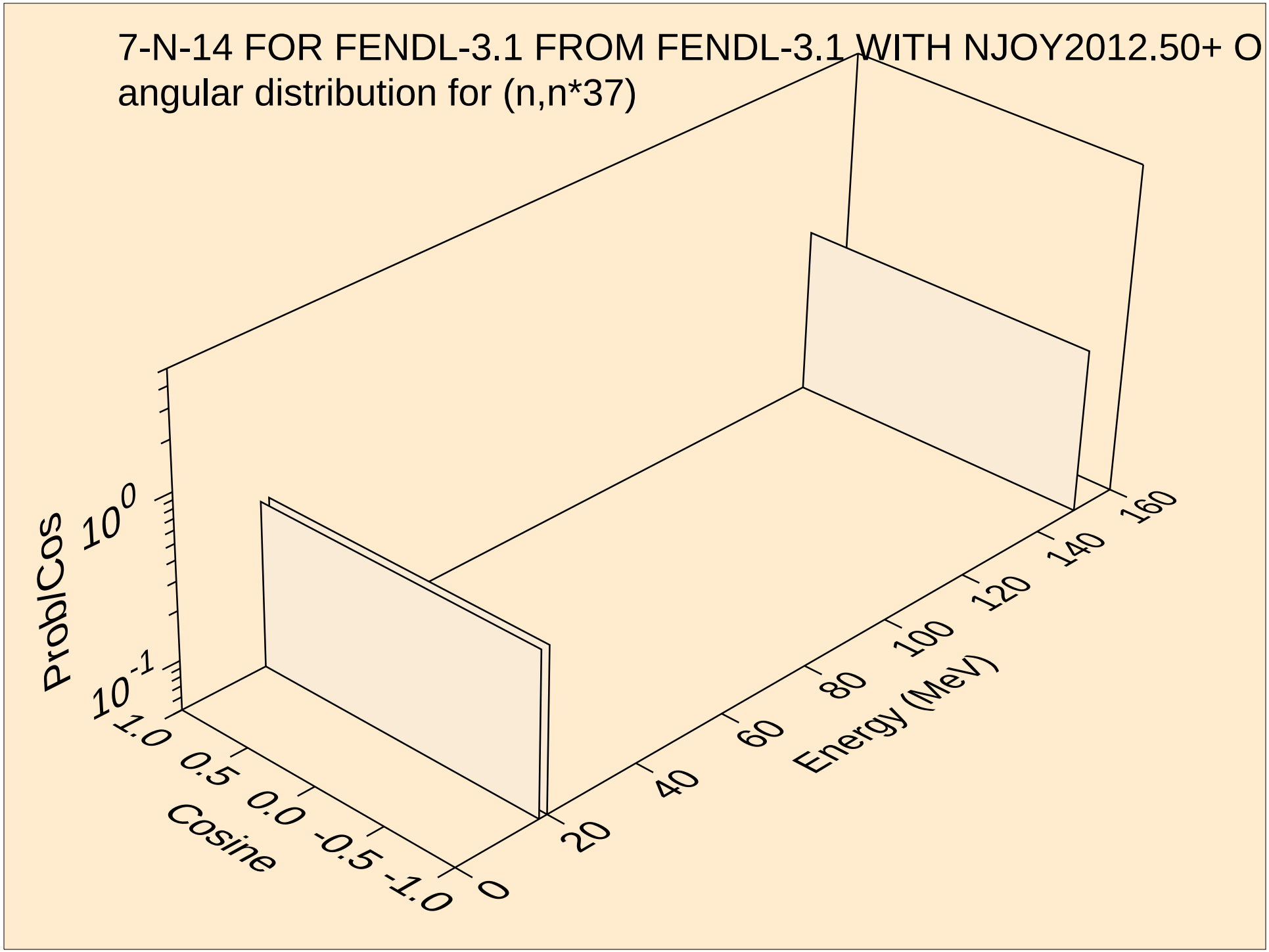

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*32)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

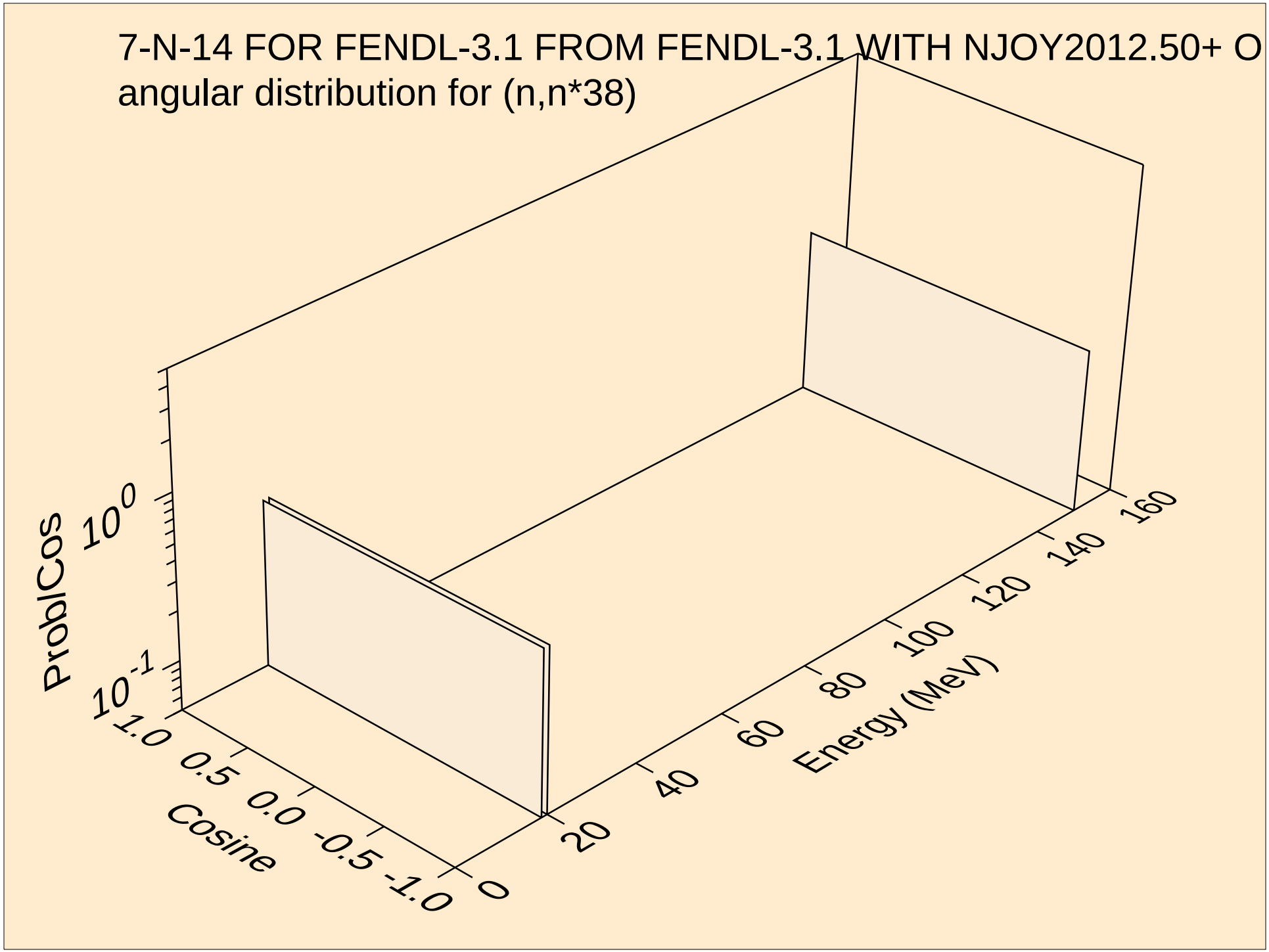

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*33)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

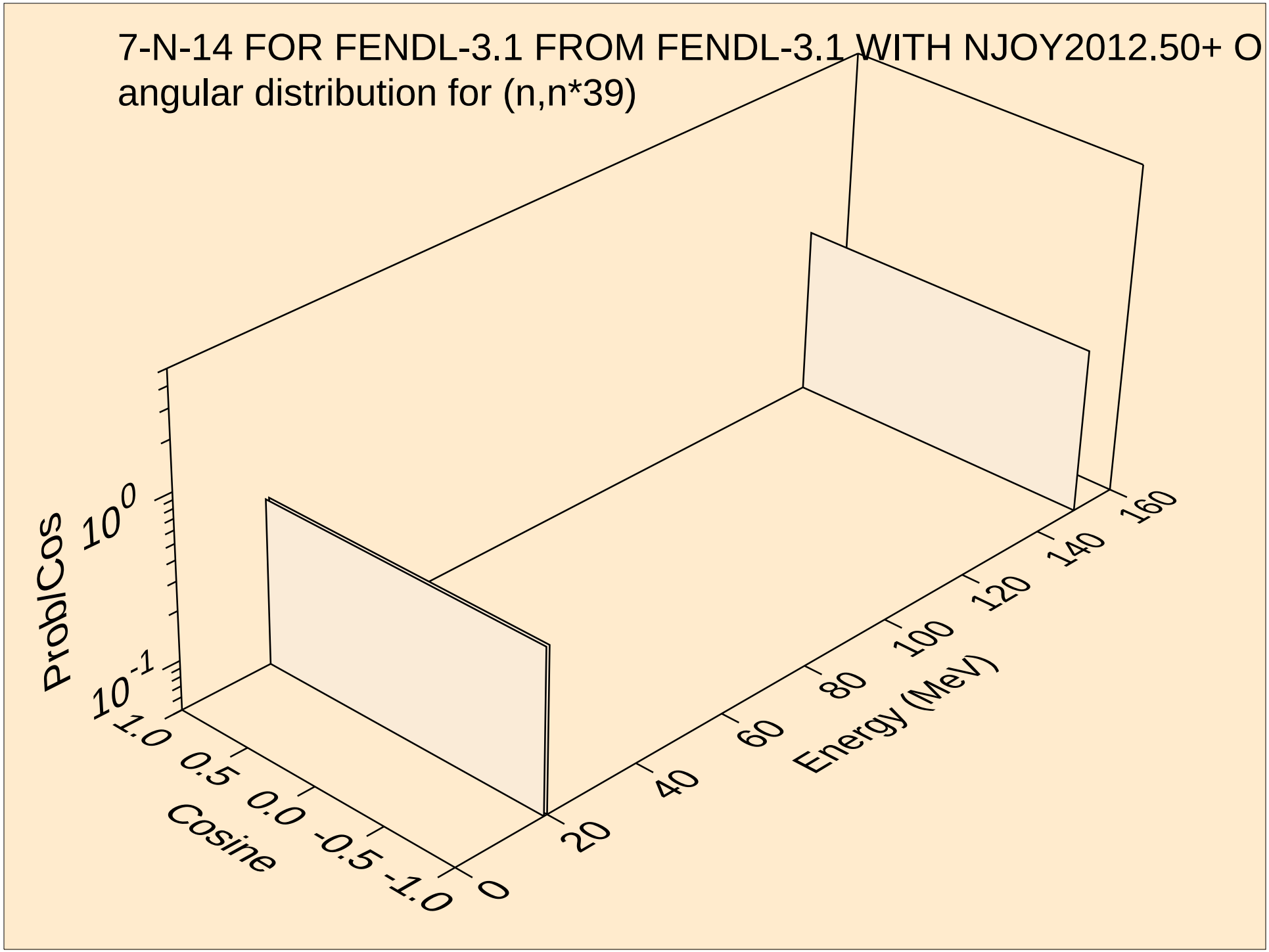

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*34)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

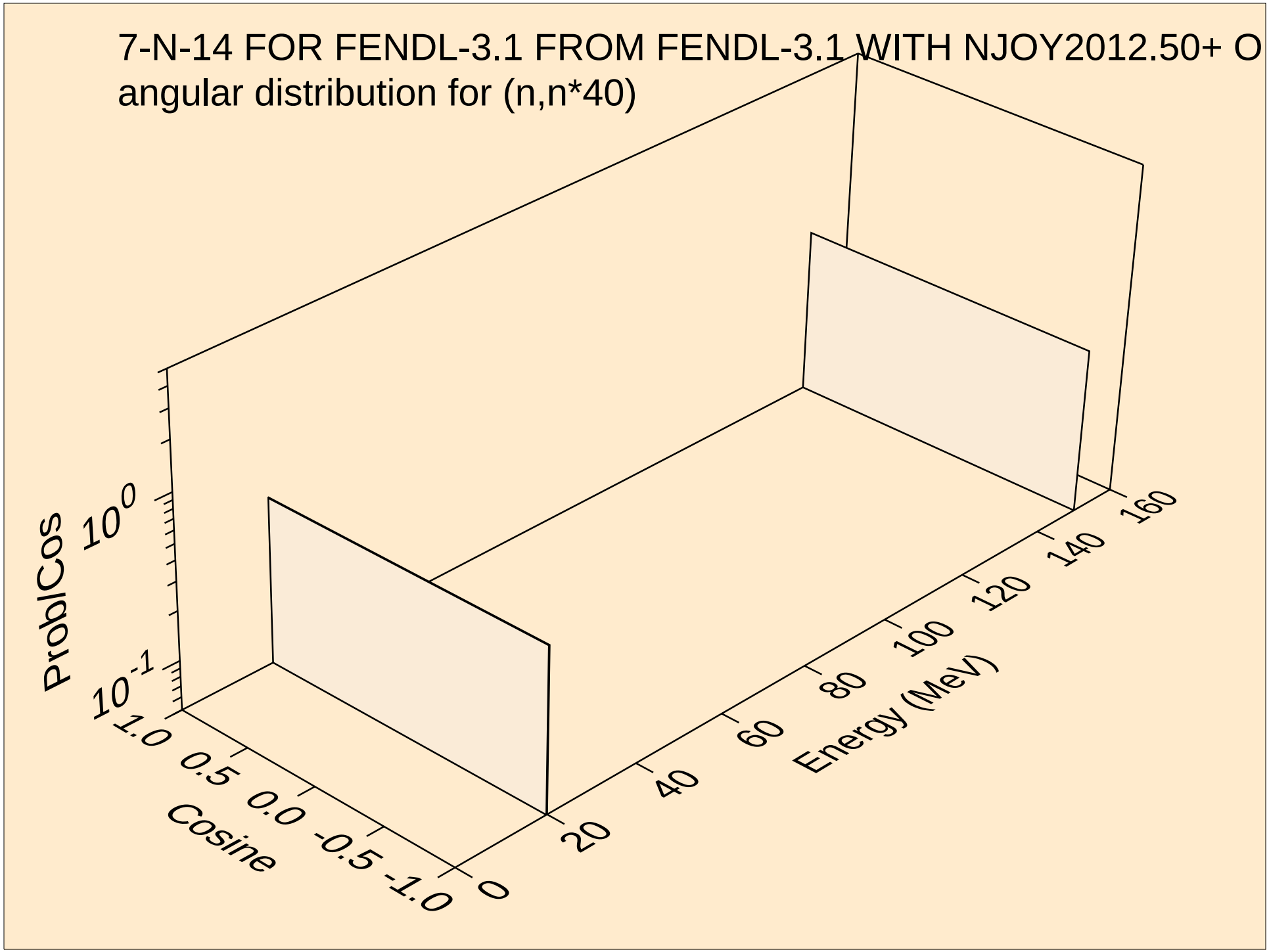

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*35)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

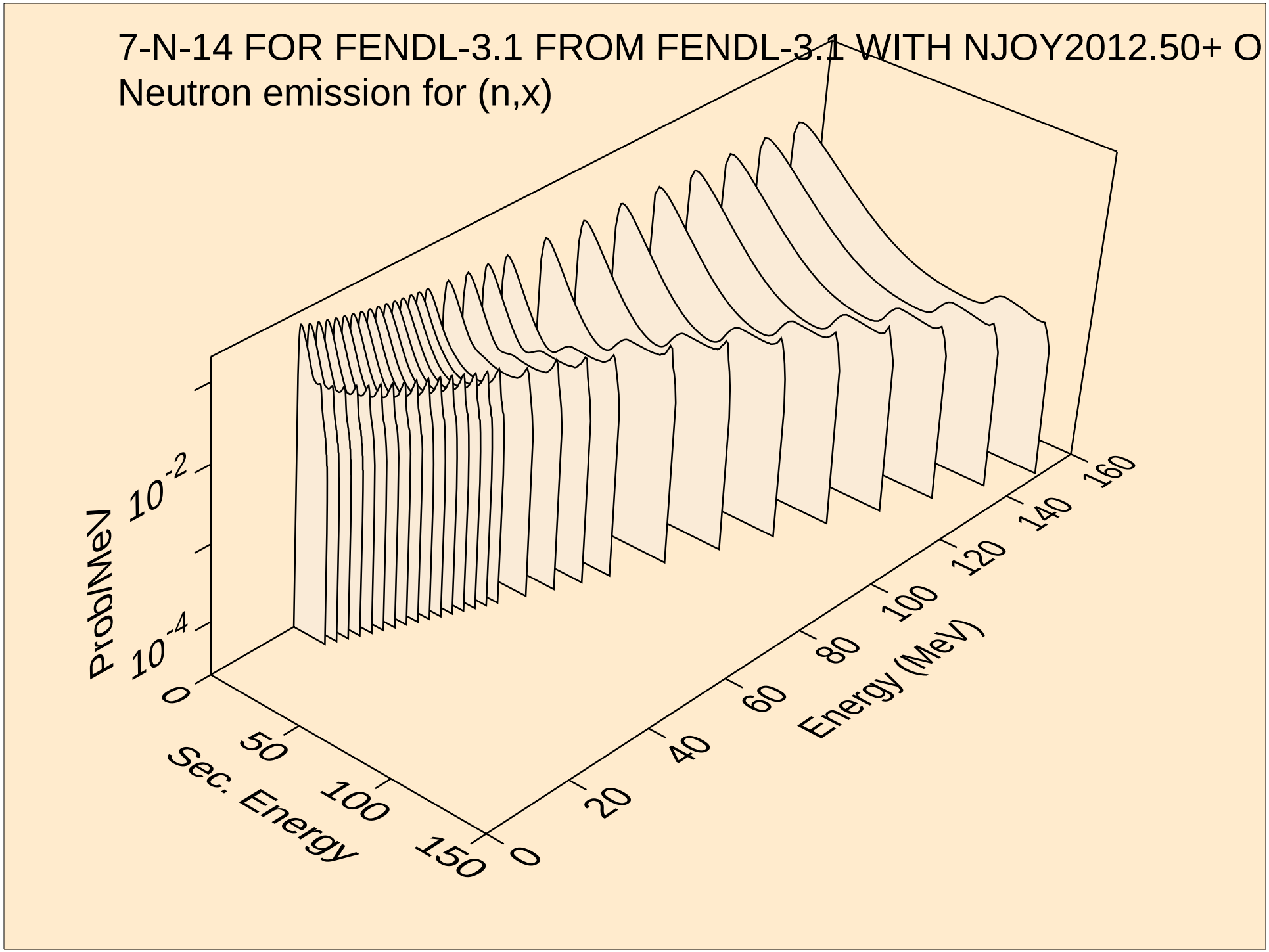

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*36)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

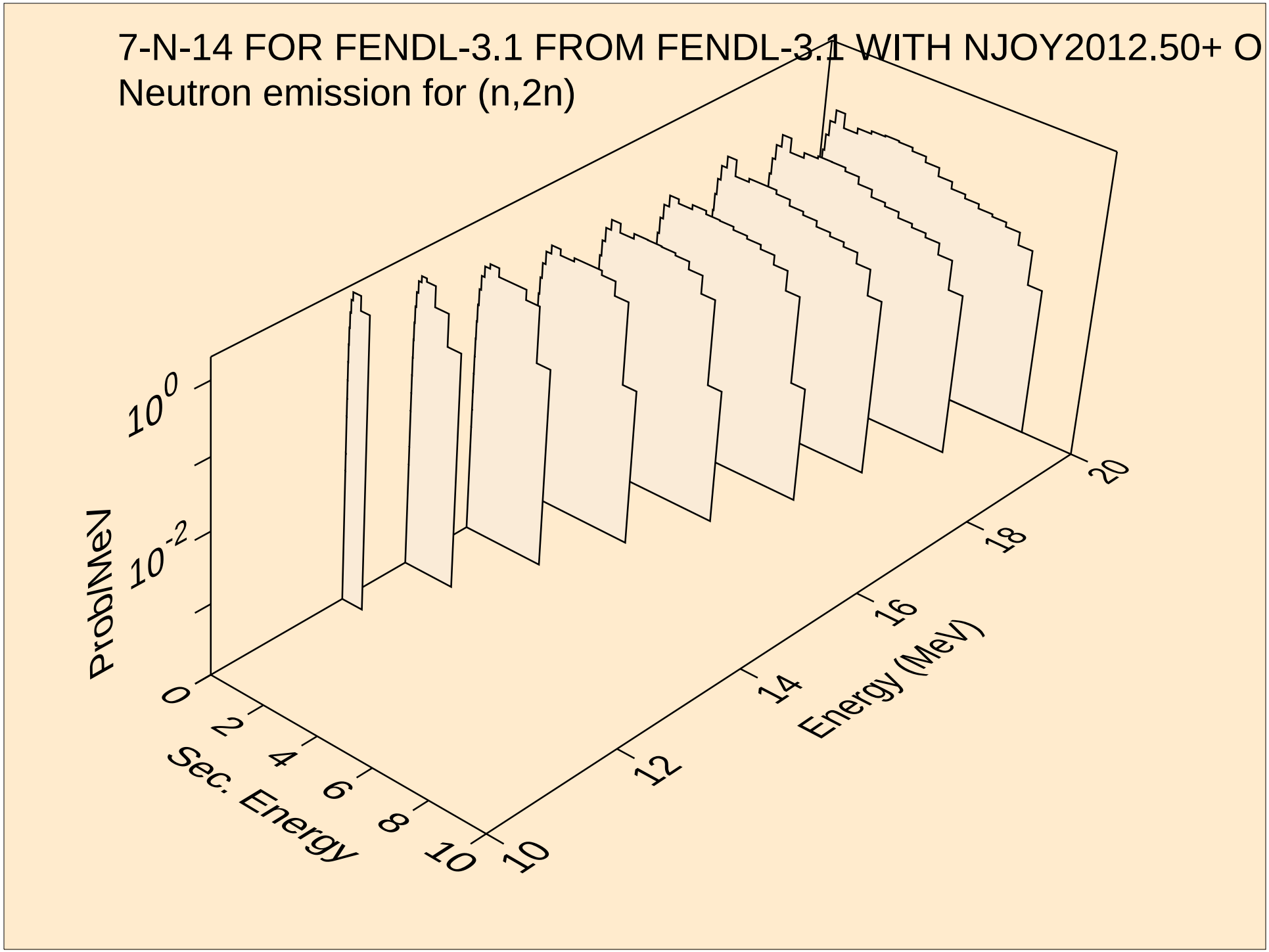

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*37)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

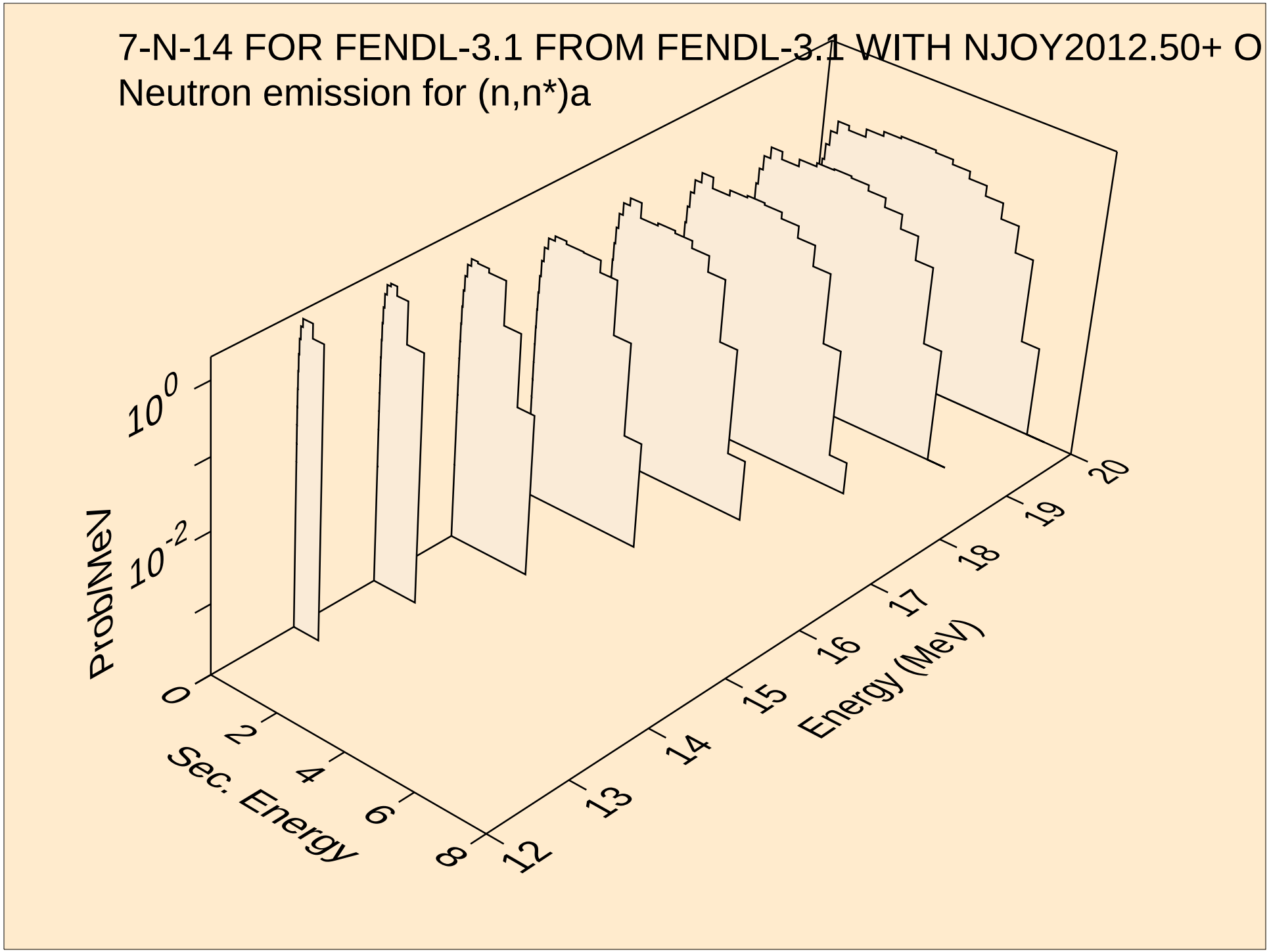

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*38)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

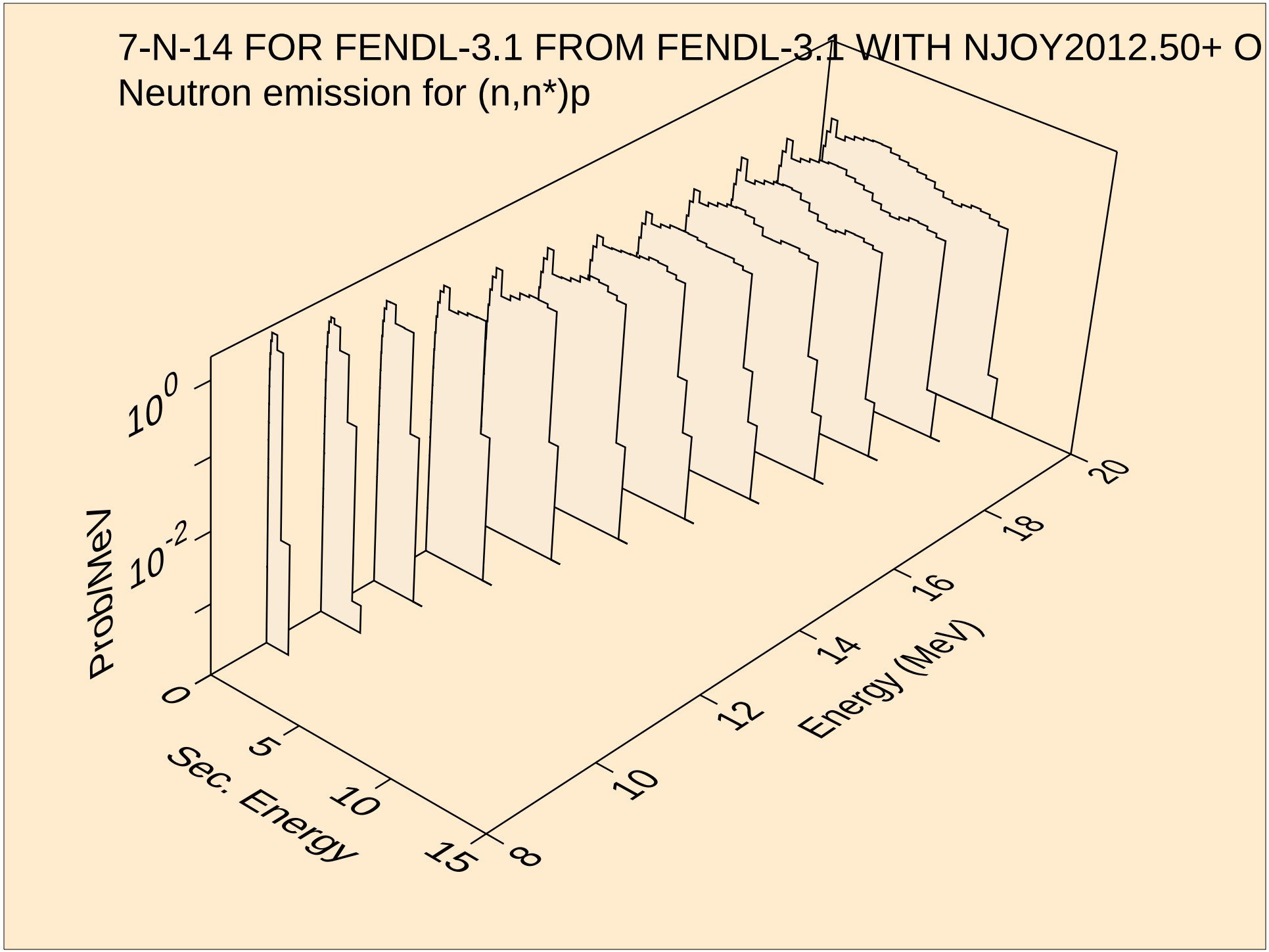

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*39)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

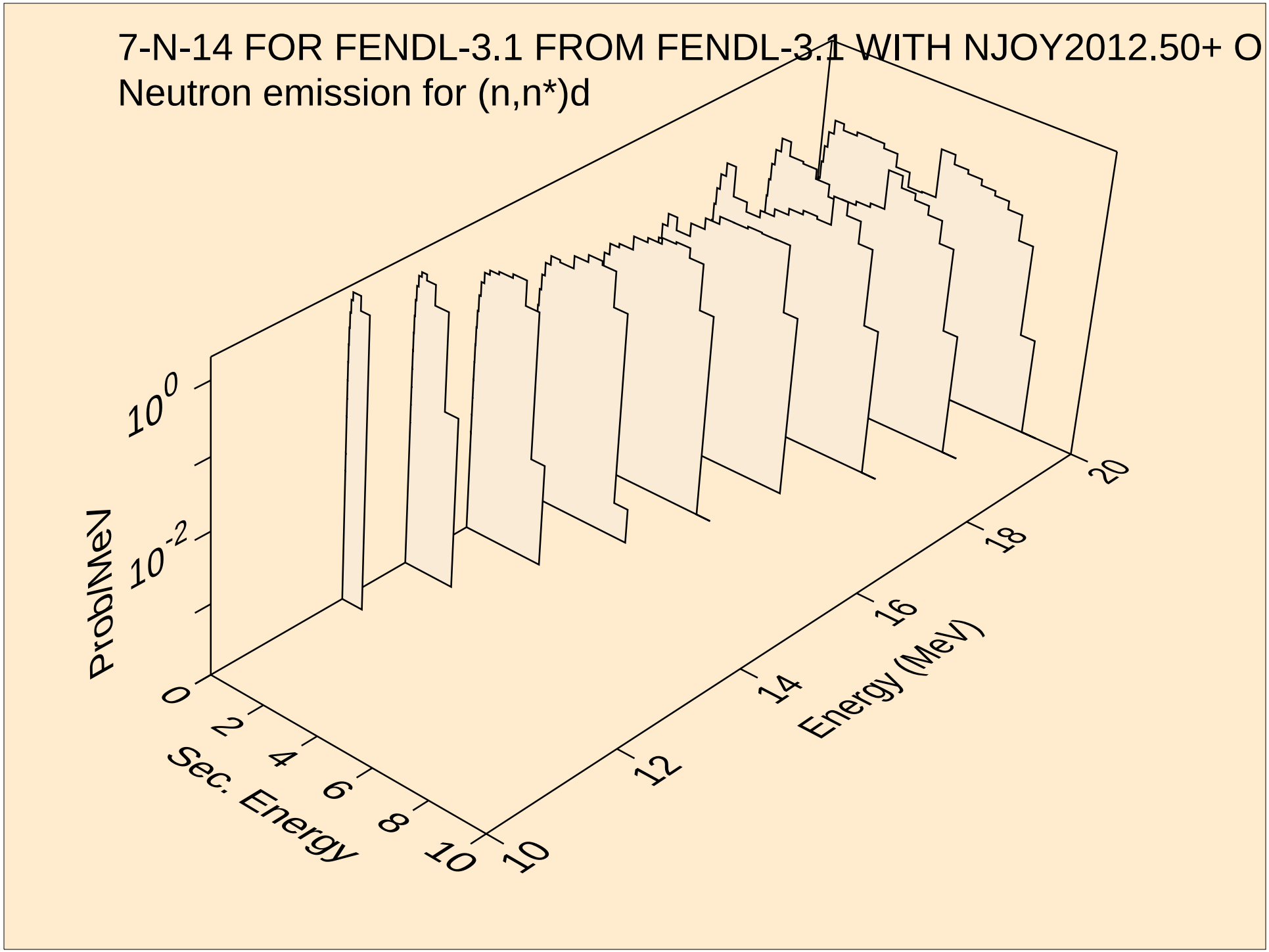

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
angular distribution for (n,n*40)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)

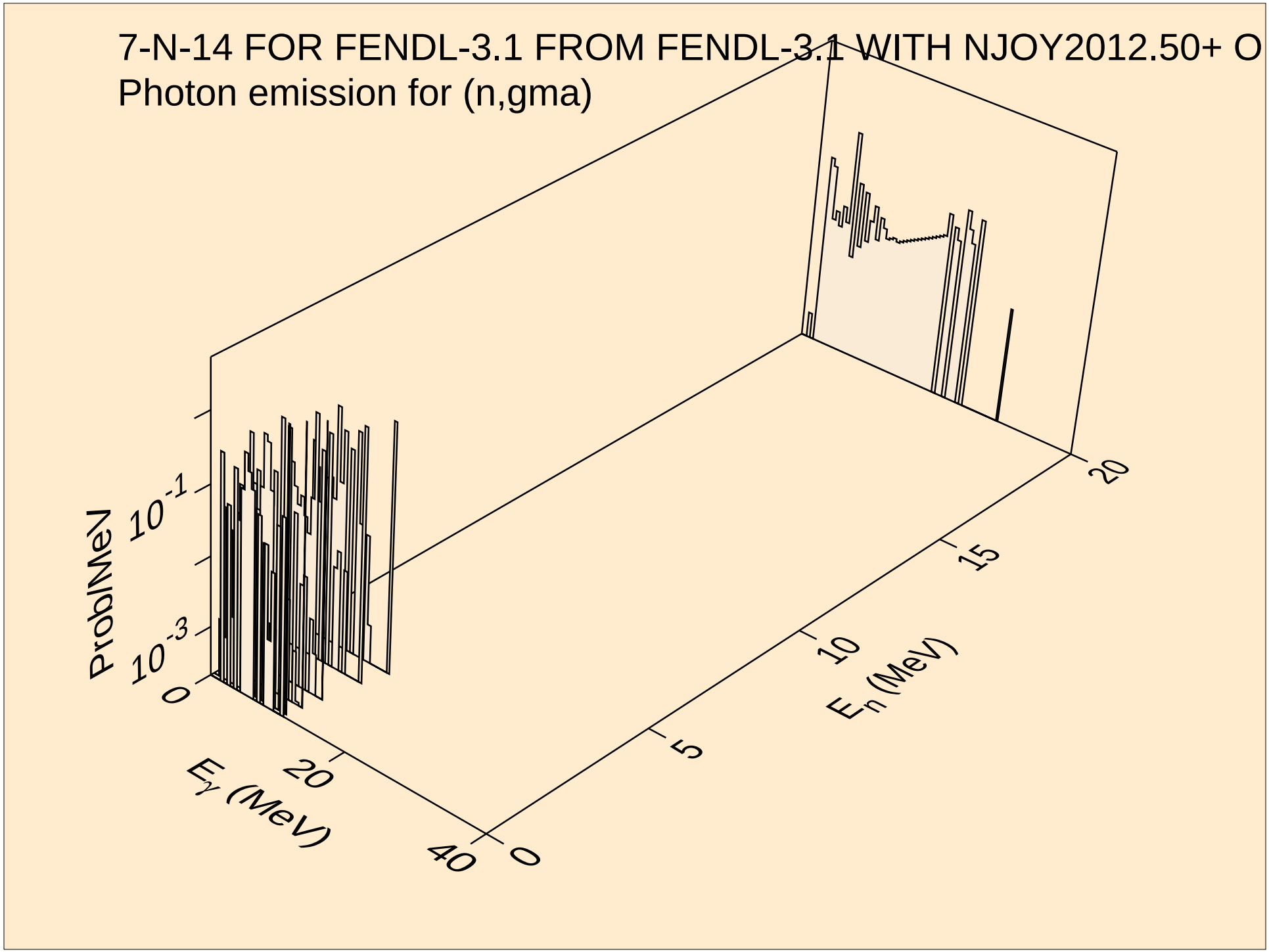

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Neutron emission for (n,x)
Prob/MeV
10-2
10-4
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

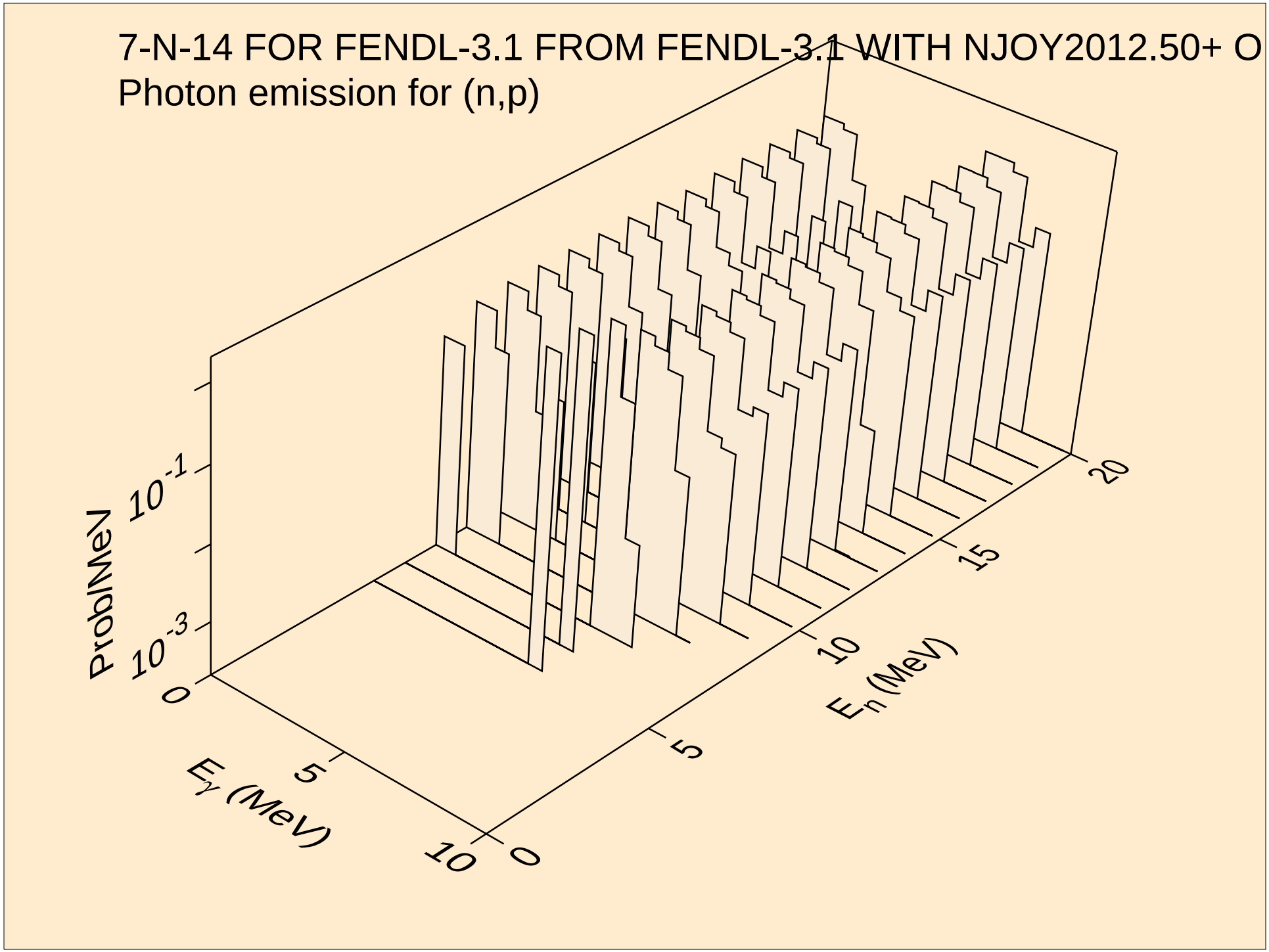

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Neutron emission for (n,2n)
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
8
10
Sec. Energy
10
12
14
16
18
20
Energy (MeV)

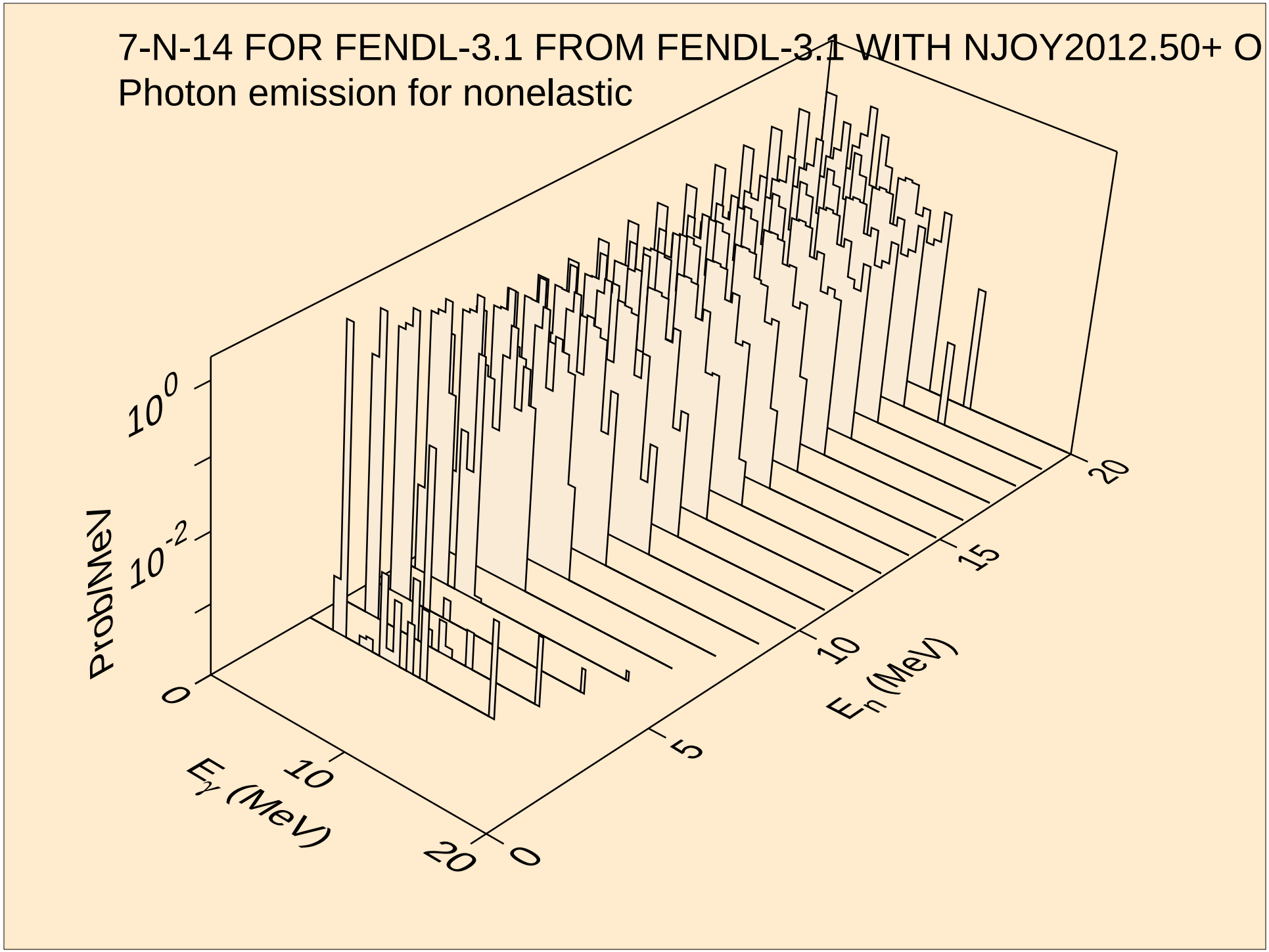

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Neutron emission for (n,n*)a
Prob/MeV
10^0
10^-2
0
2
4
6
8
Sec. Energy
12
13
14
15
16
17
18
19
20
Energy (MeV)

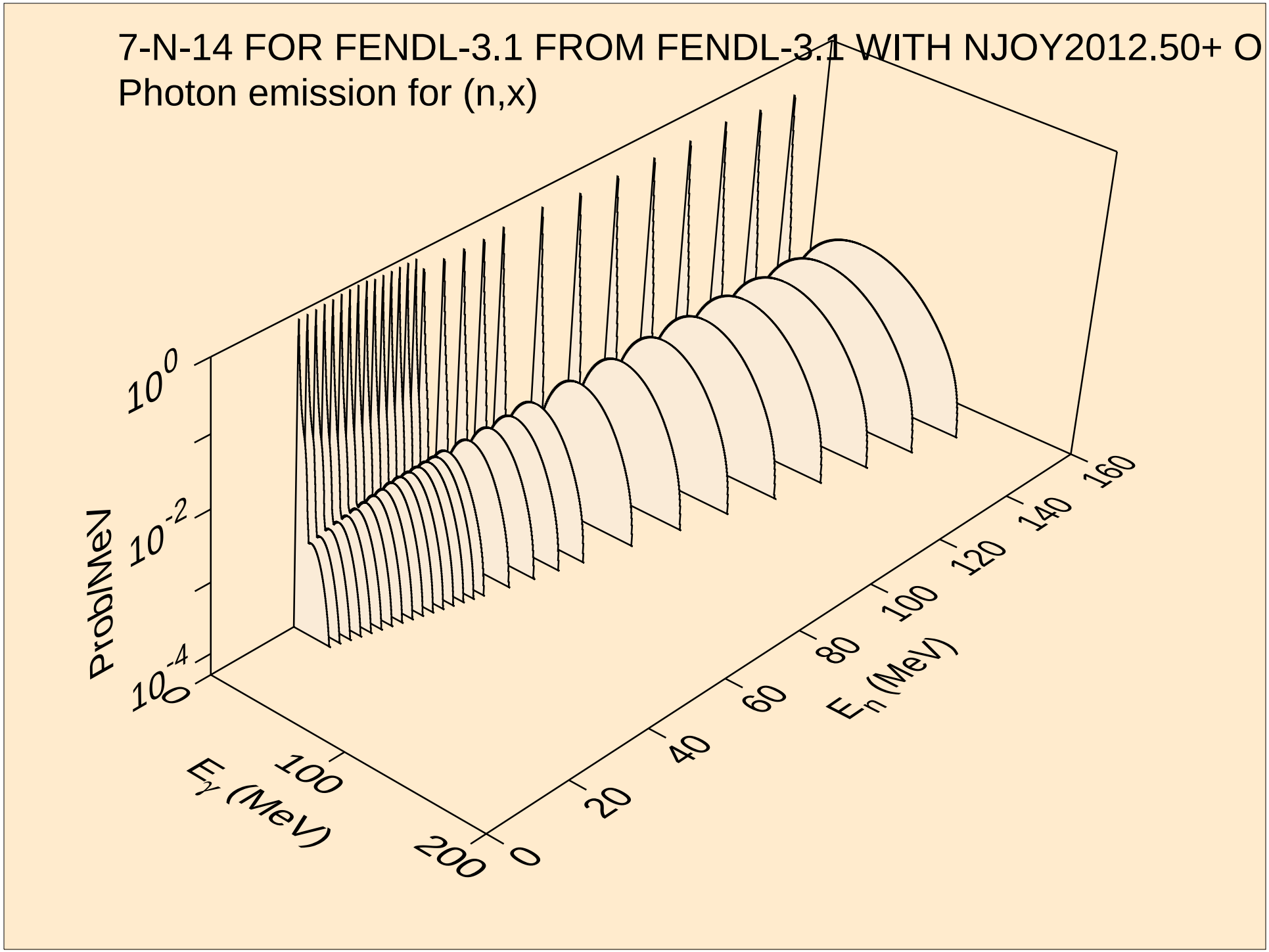

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Neutron emission for (n,n*)p
Prob/MeV
10^{0}
10^{-2}
0
5
10
15
Sec. Energy
8
10
12
14
16
18
20
Energy (MeV)

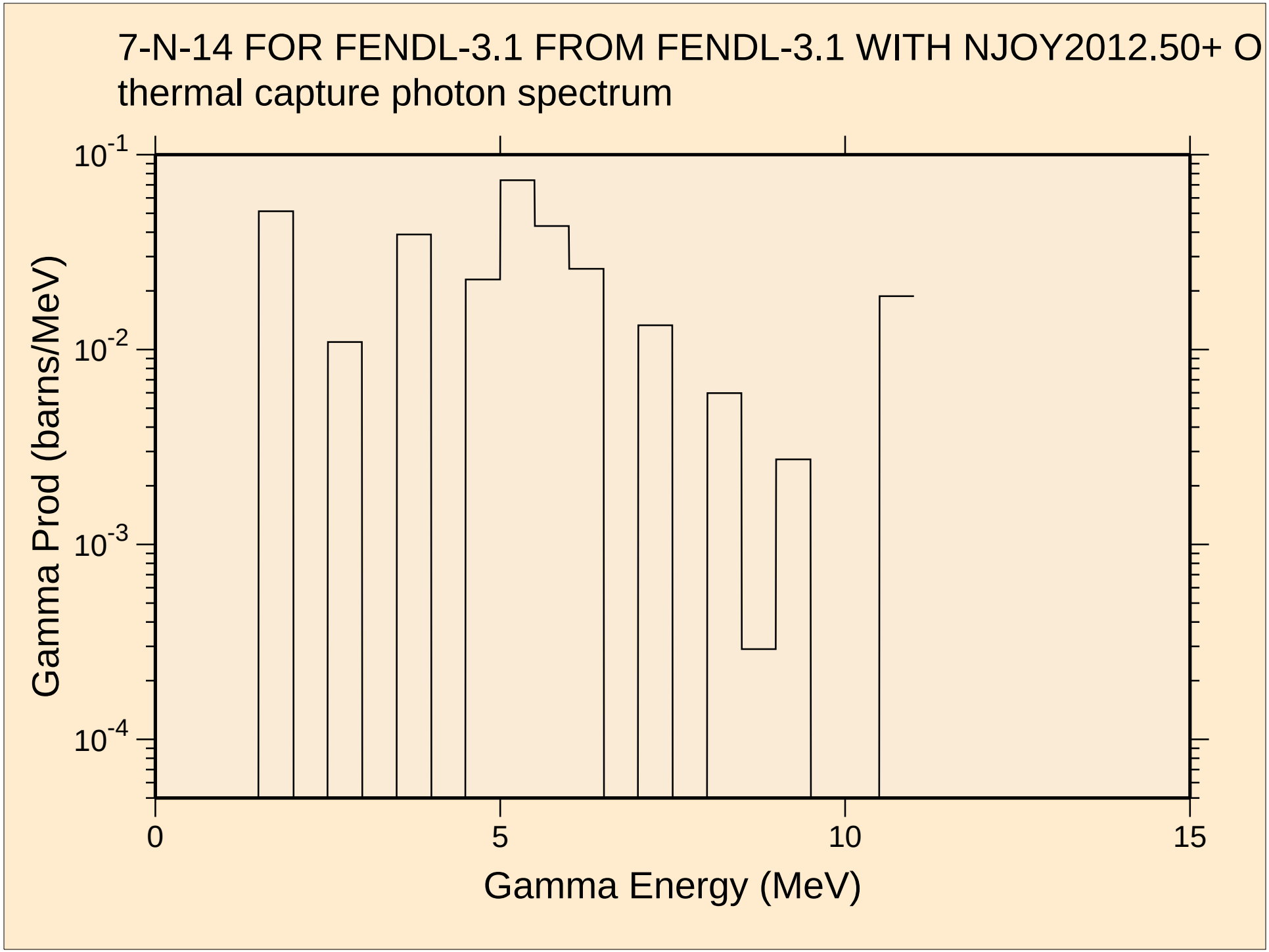

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Neutron emission for (n,n*)d
Prob/MeV
10^0
10^-2
0
2
4
6
8
10
Sec. Energy
10
12
14
16
18
20
Energy (MeV)

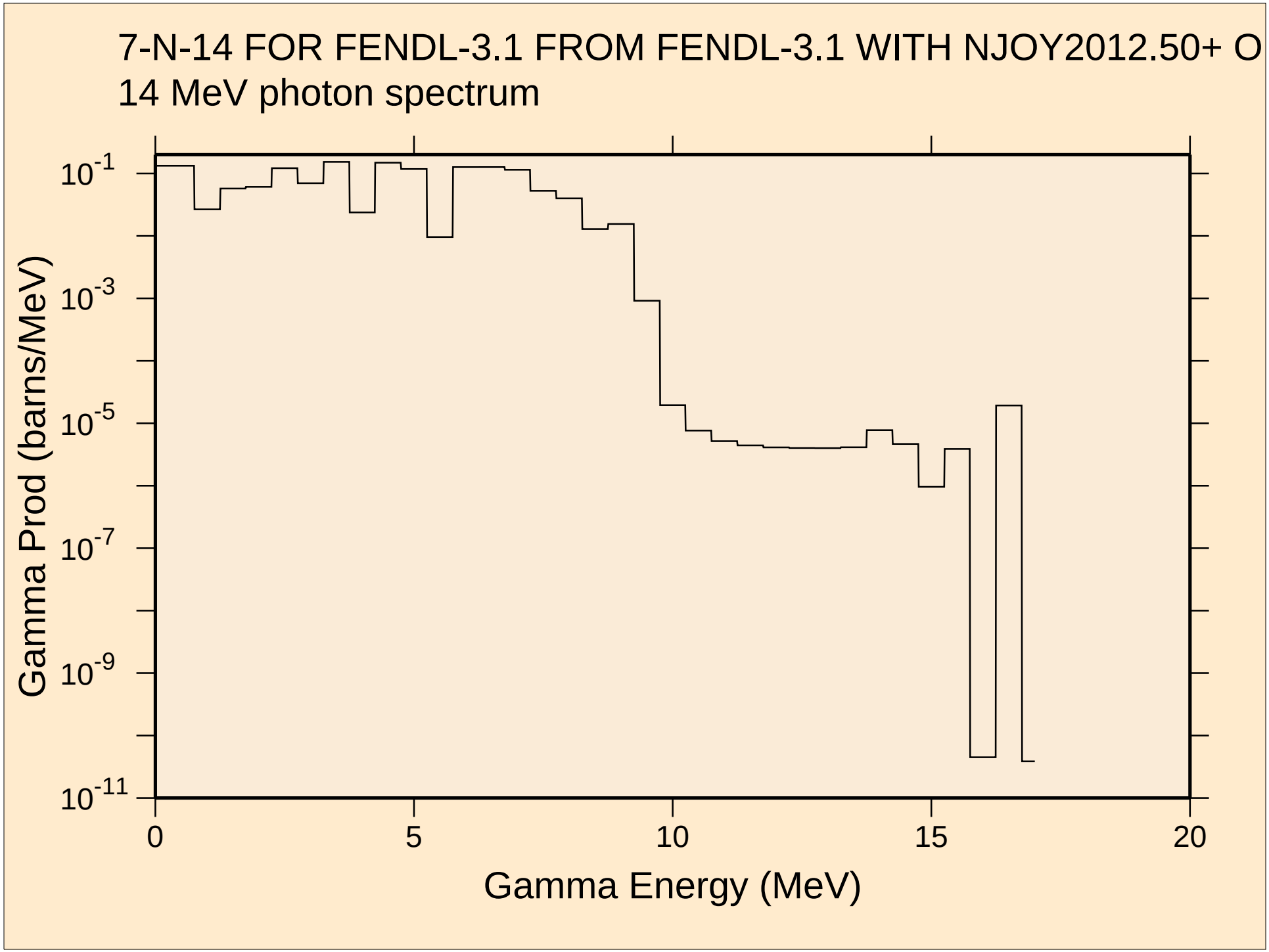

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Photon emission for (n,gma)
Prob/MeV
10-1
10-3
0
Eγ (MeV)
20
40
0
5
10
15
20
En (MeV)

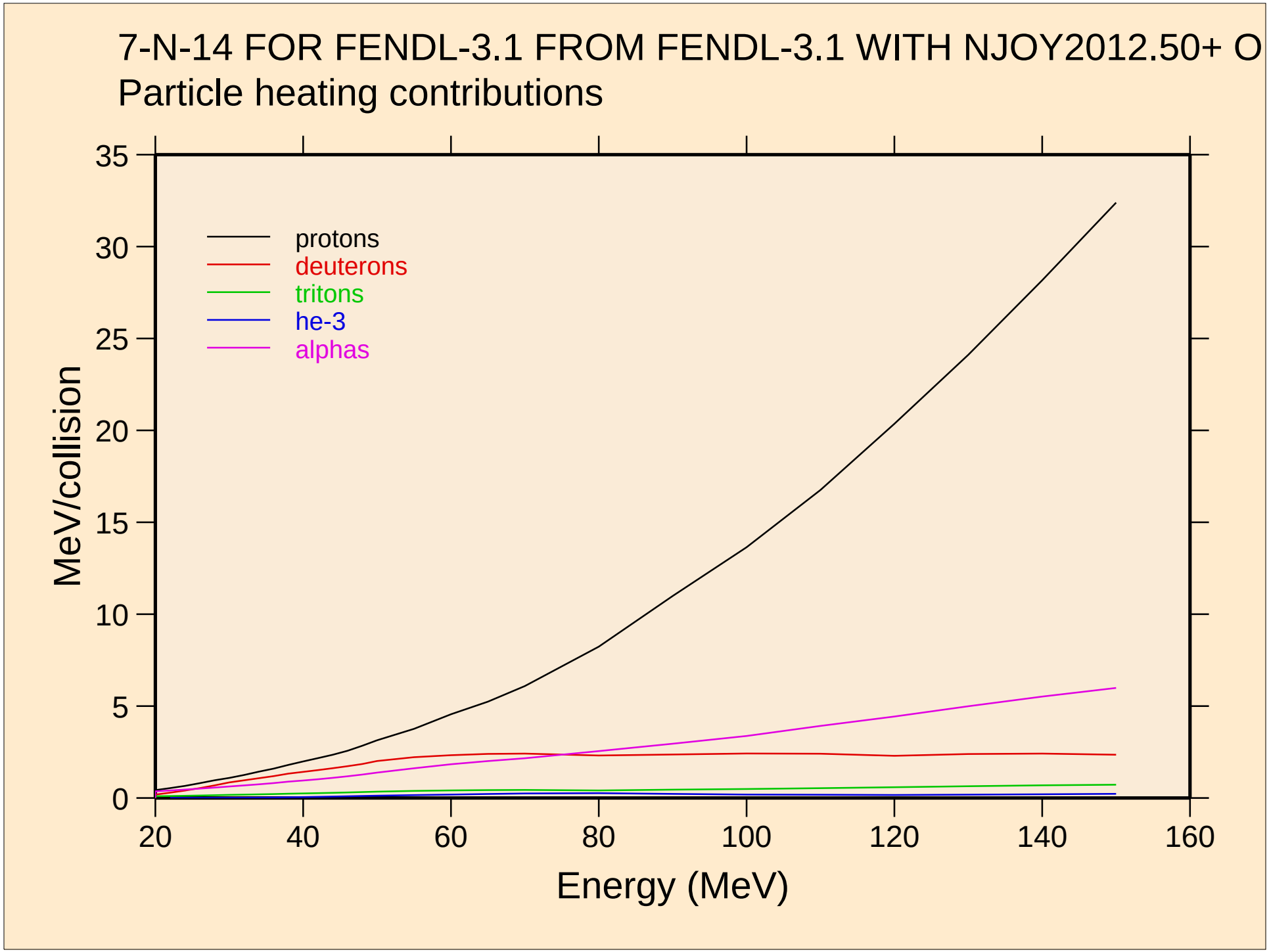

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Photon emission for (n,p)
Prob/MeV
10-1
10-3
0
5
10
Eγ (MeV)
0
5
10
15
20
En (MeV)

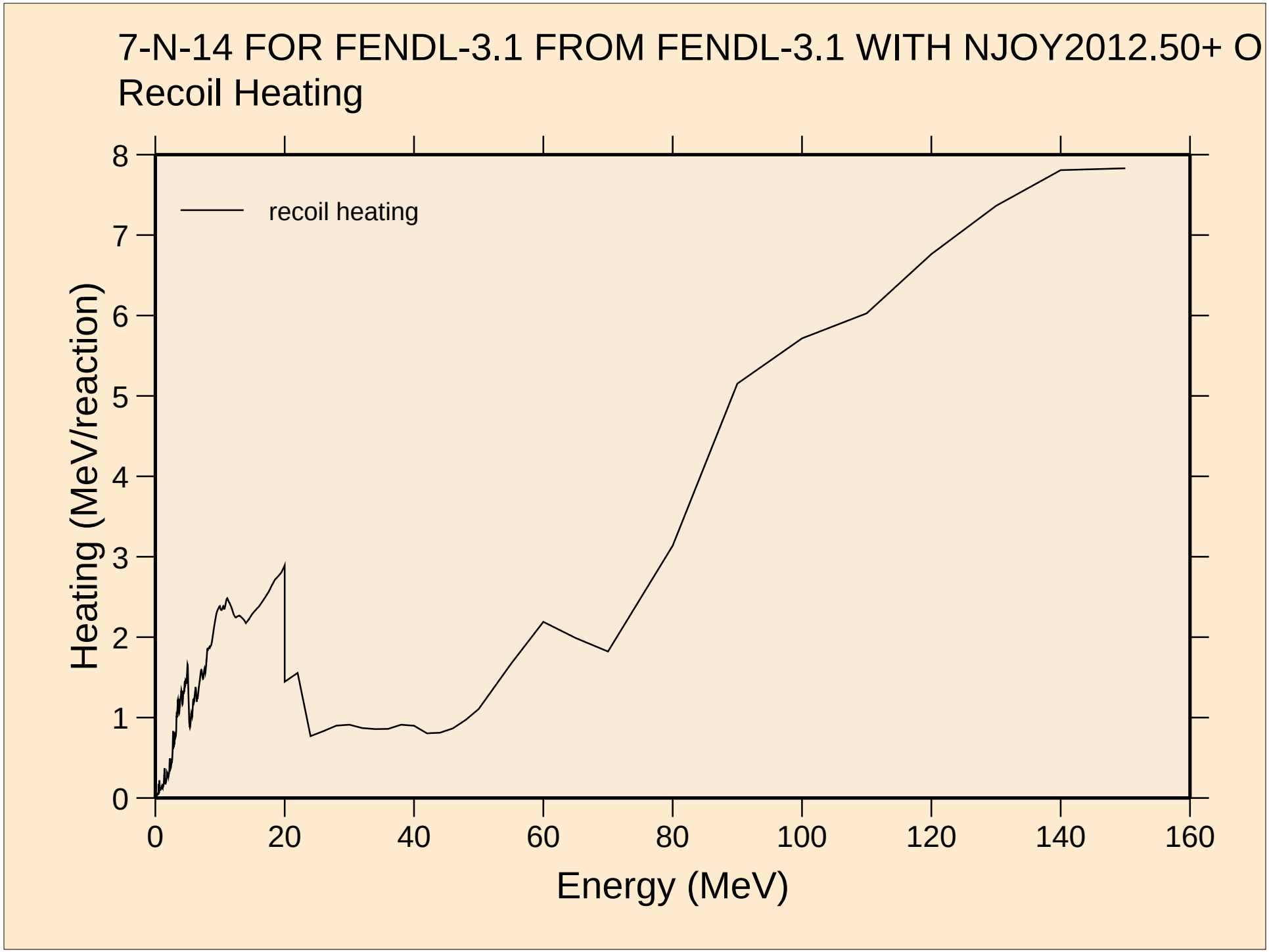

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Photon emission for nonelastic
Prob/MeV
10^{0}
10^{-2}
0
10
20
E_γ (MeV)
0
5
10
15
20
E_n (MeV)

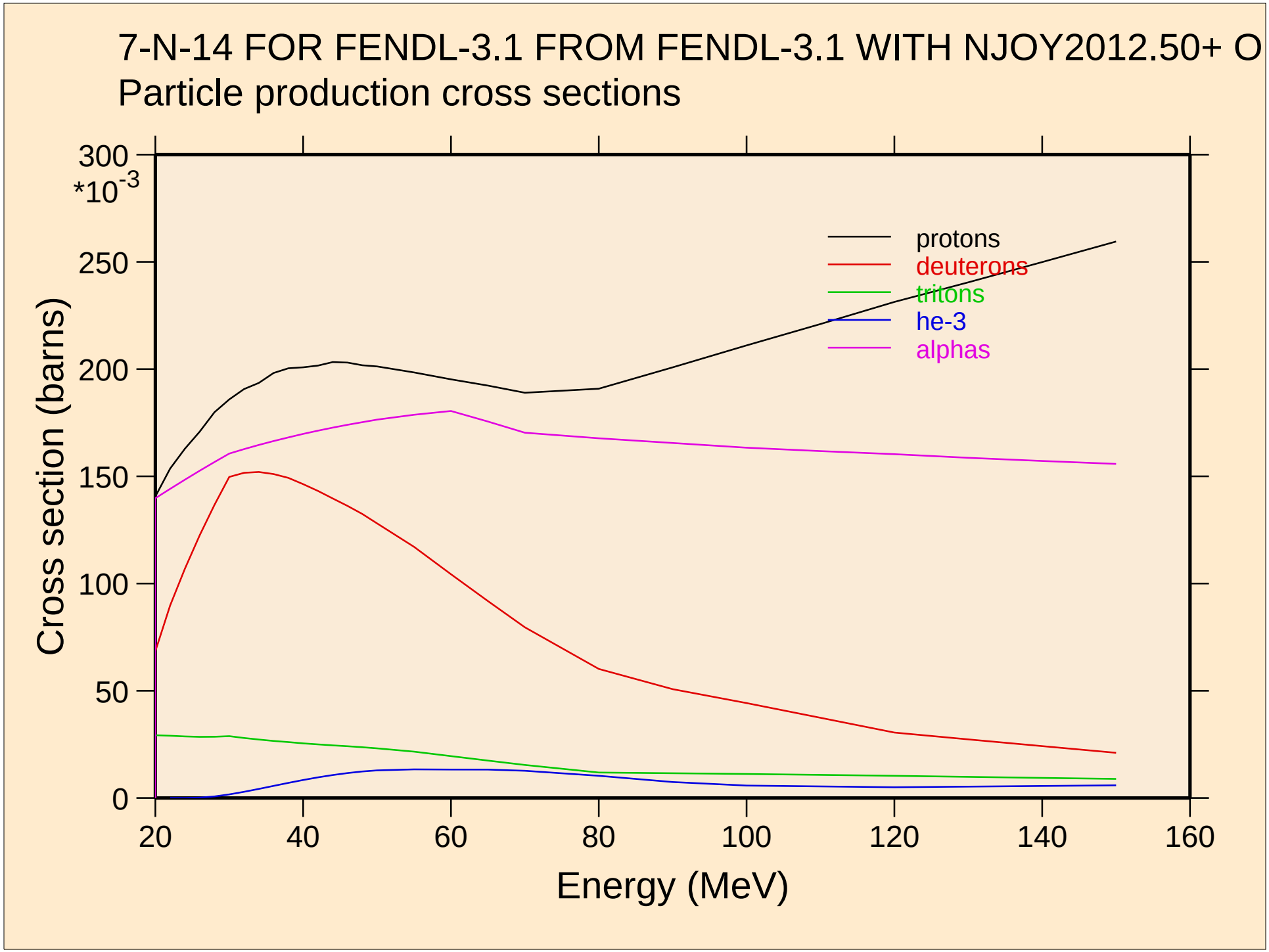

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Photon emission for (n,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
E_γ (MeV)
0
100
200
E_n (MeV)
0
20
40
60
80
100
120
140
160

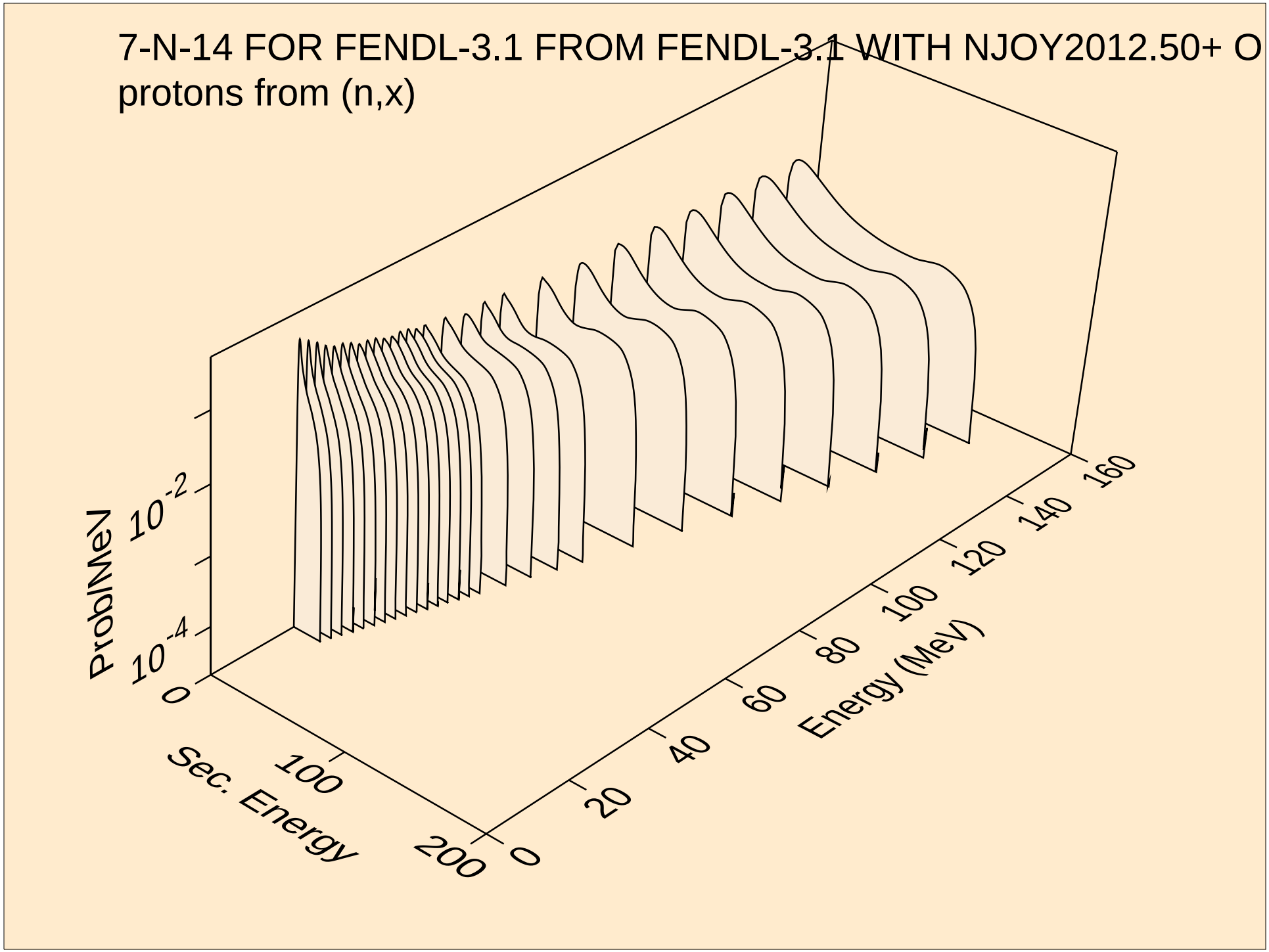

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10-1
10-2
10-3
10-4
0
5
10
15
Gamma Energy (MeV)

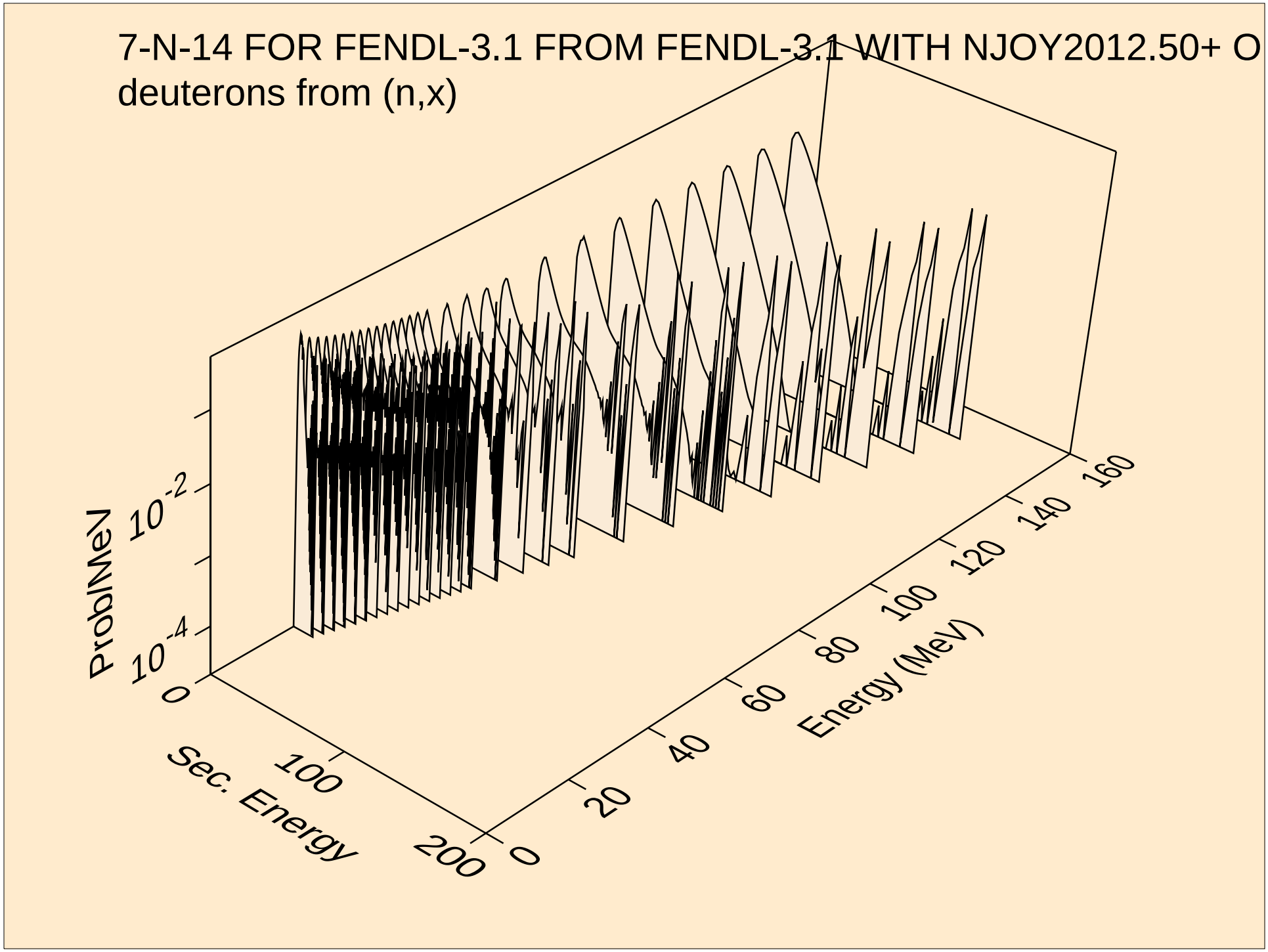

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10-1
10-3
10-5
10-7
10-9
10-11
0
5
10
15
20
Gamma Energy (MeV)

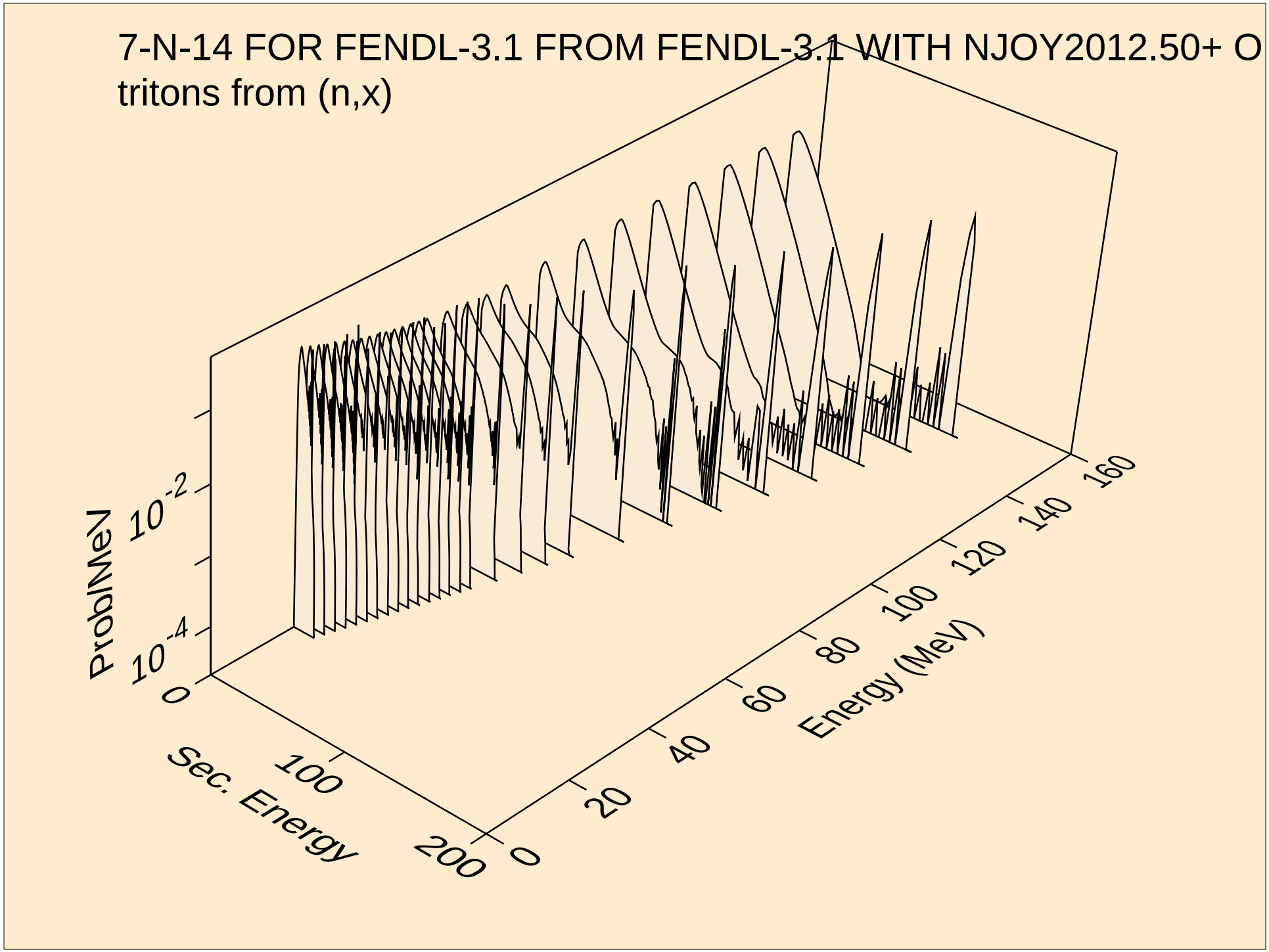

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Particle heating contributions
protons
deuterons
tritons
he-3
alphas
MeV/collision
Energy (MeV)
0
5
10
15
20
25
30
35
20
40
60
80
100
120
140
160

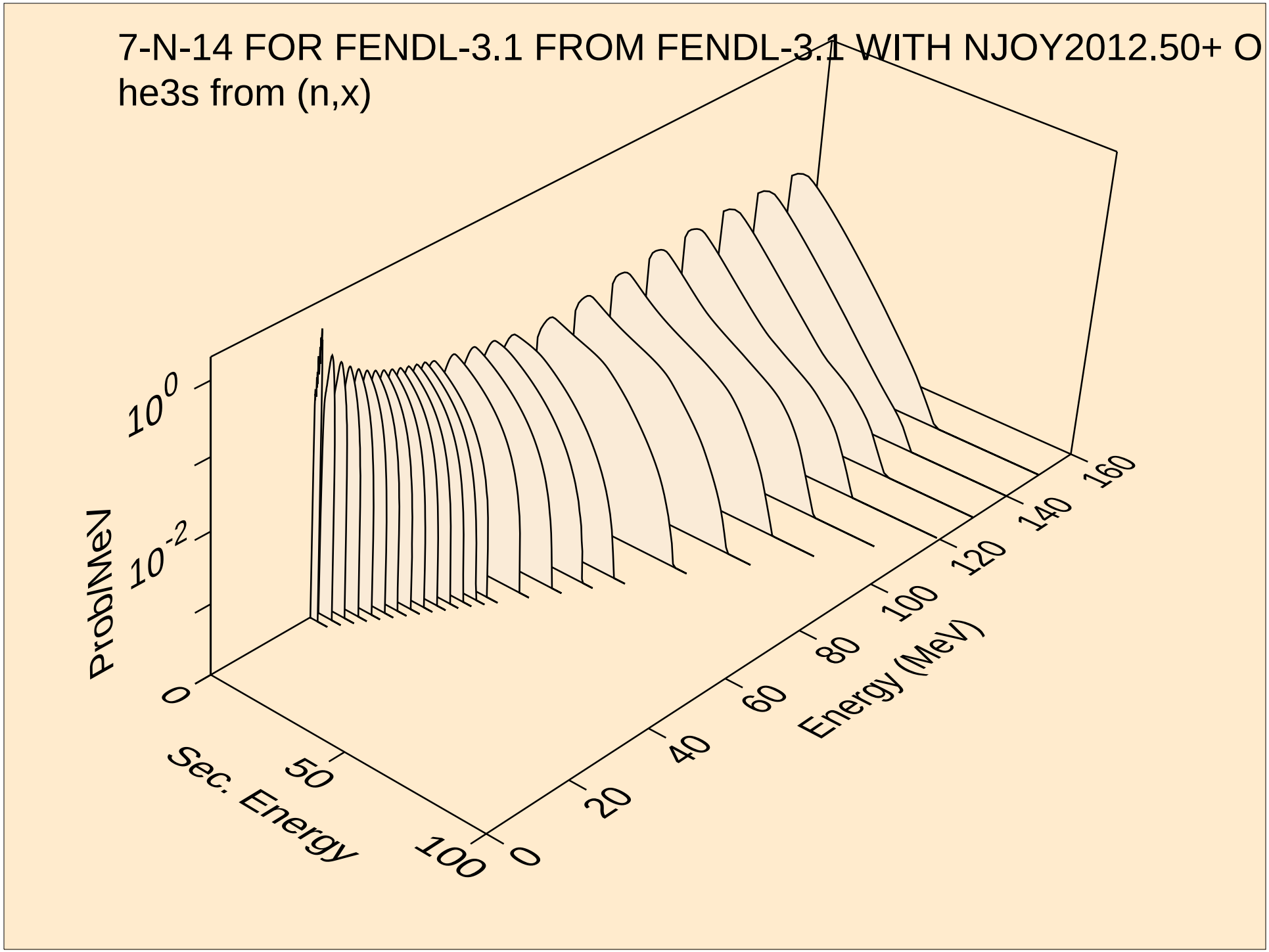

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0
1
2
3
4
5
6
7
8
0
20
40
60
80
100
120
140
160

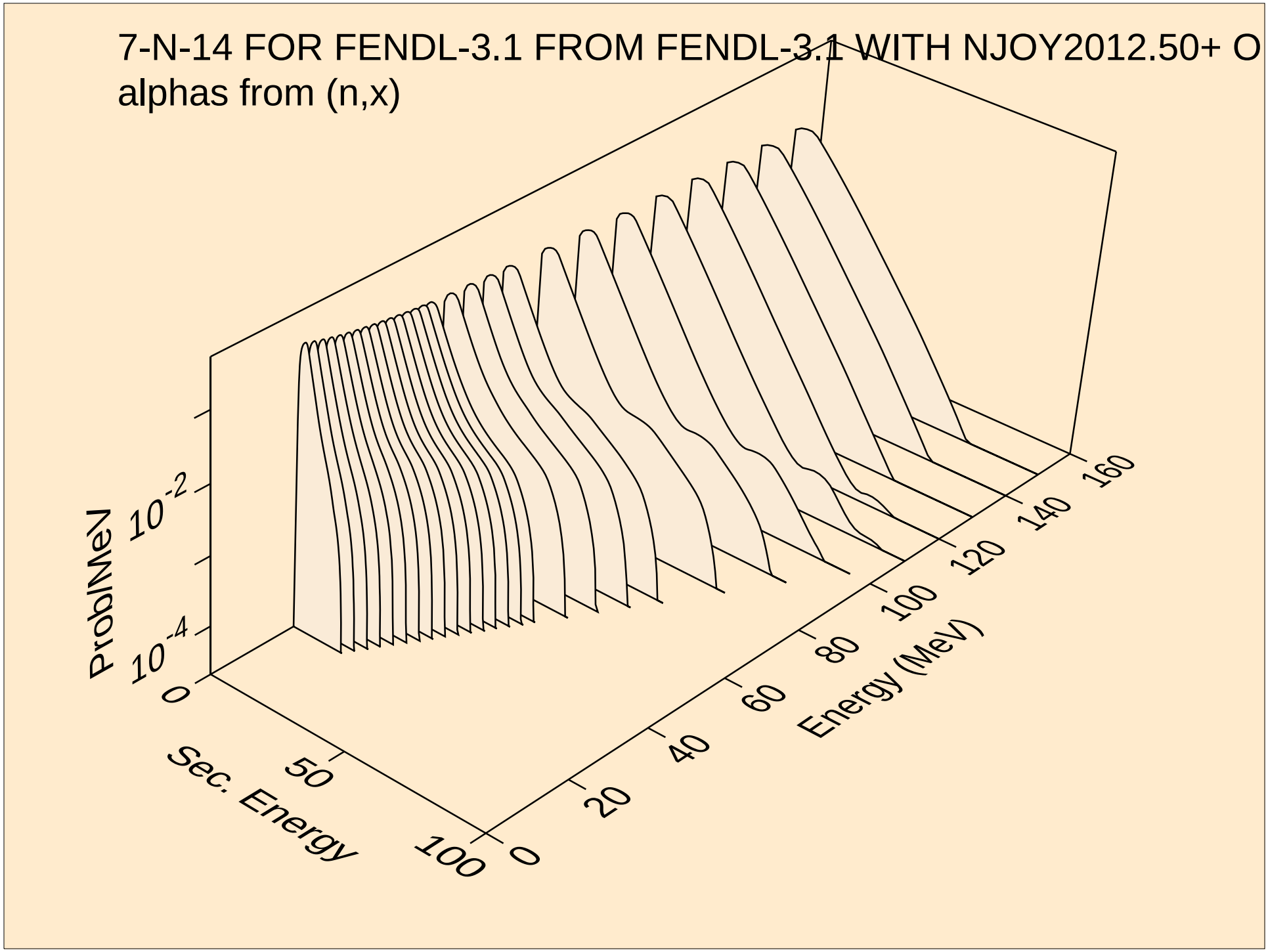

7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
Particle production cross sections
Cross section (barns)
*10-3
300
250
200
150
100
50
0
20
40
60
80
100
120
140
160
Energy (MeV)
protons
deuterons
tritons
he-3
alphas


7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
protons from (n,x)
Prob/MeV
10-2
10-4
0
100
200
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)


7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
deuterons from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)


7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
tritons from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)


7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
he3s from (n,x)
Prob/MeV
10^0
10^-2
0
Sec. Energy
50
100
0
20
40
60
80
100
120
140
160
Energy (MeV)


7-N-14 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+ O
alphas from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
50
100
0
20
40
60
80
100
120
140
160
Energy (MeV)