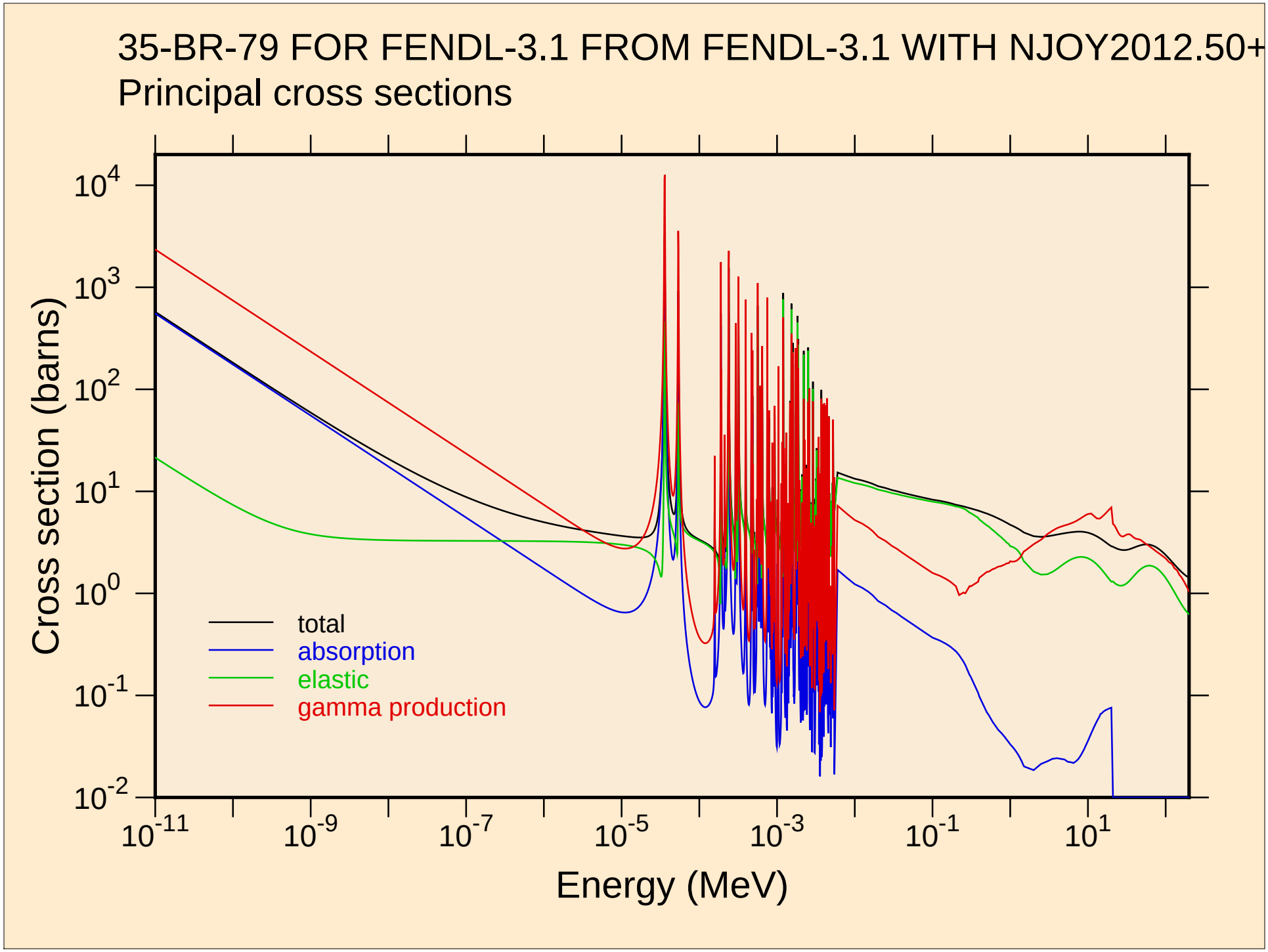
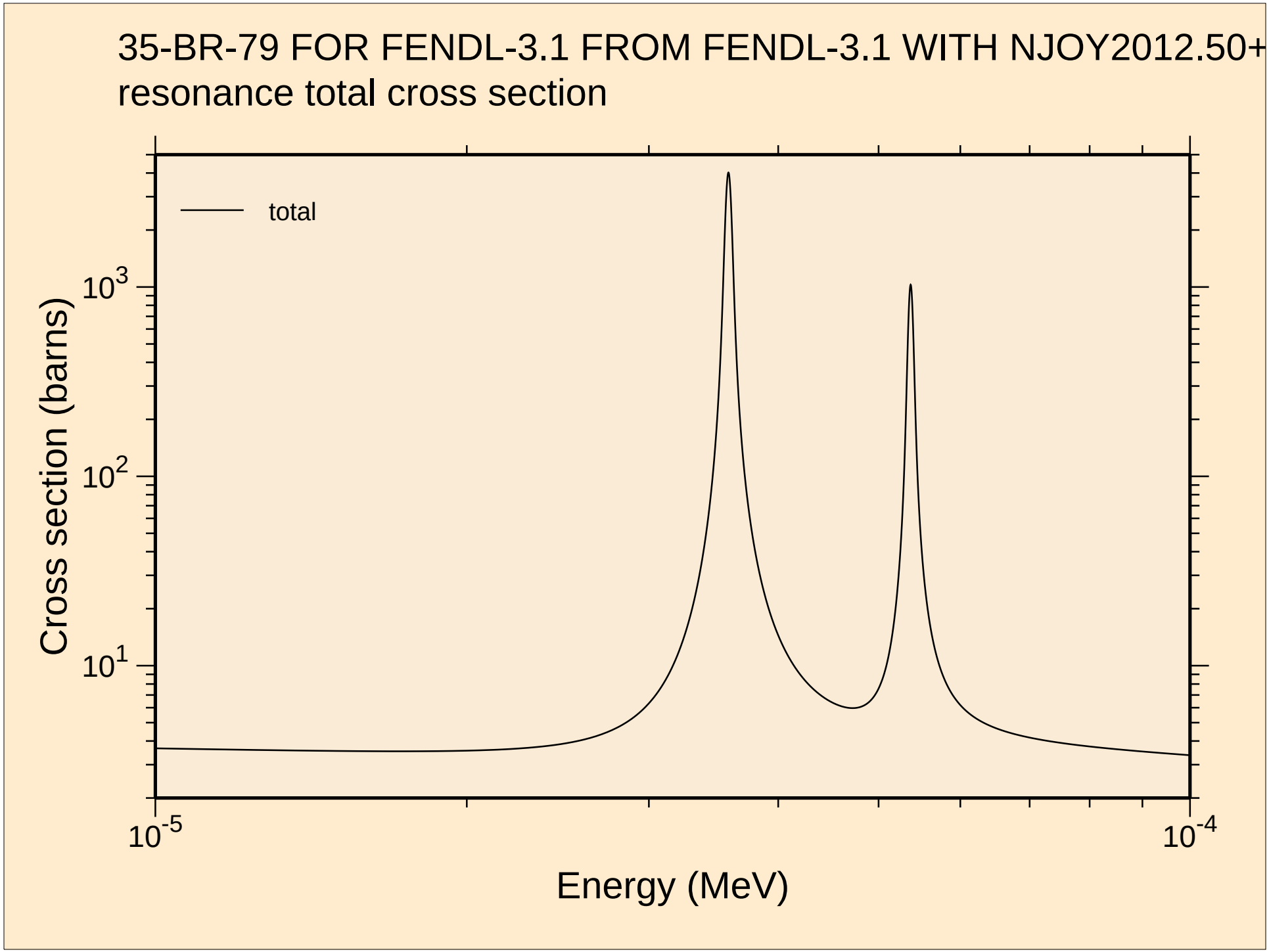
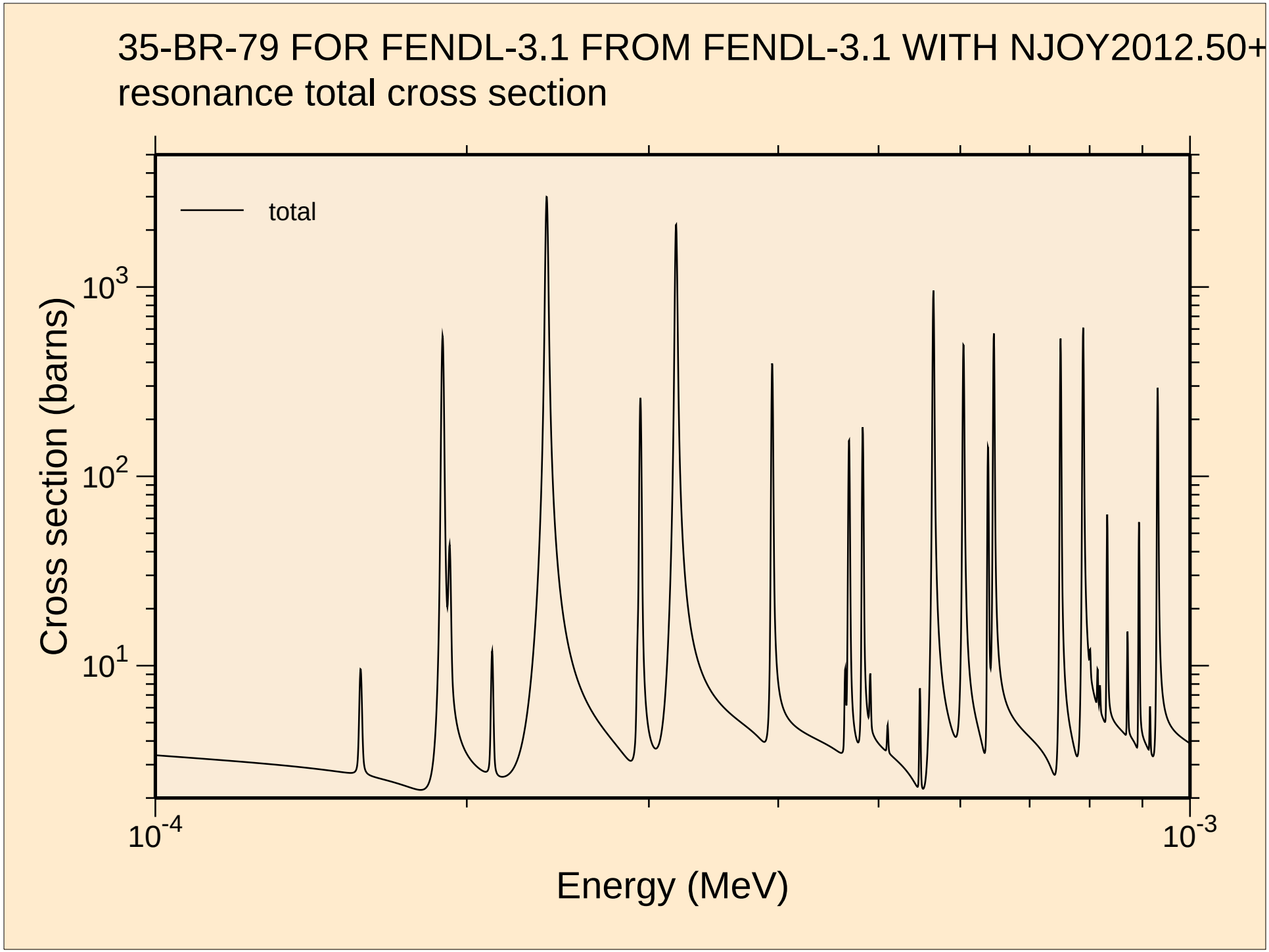
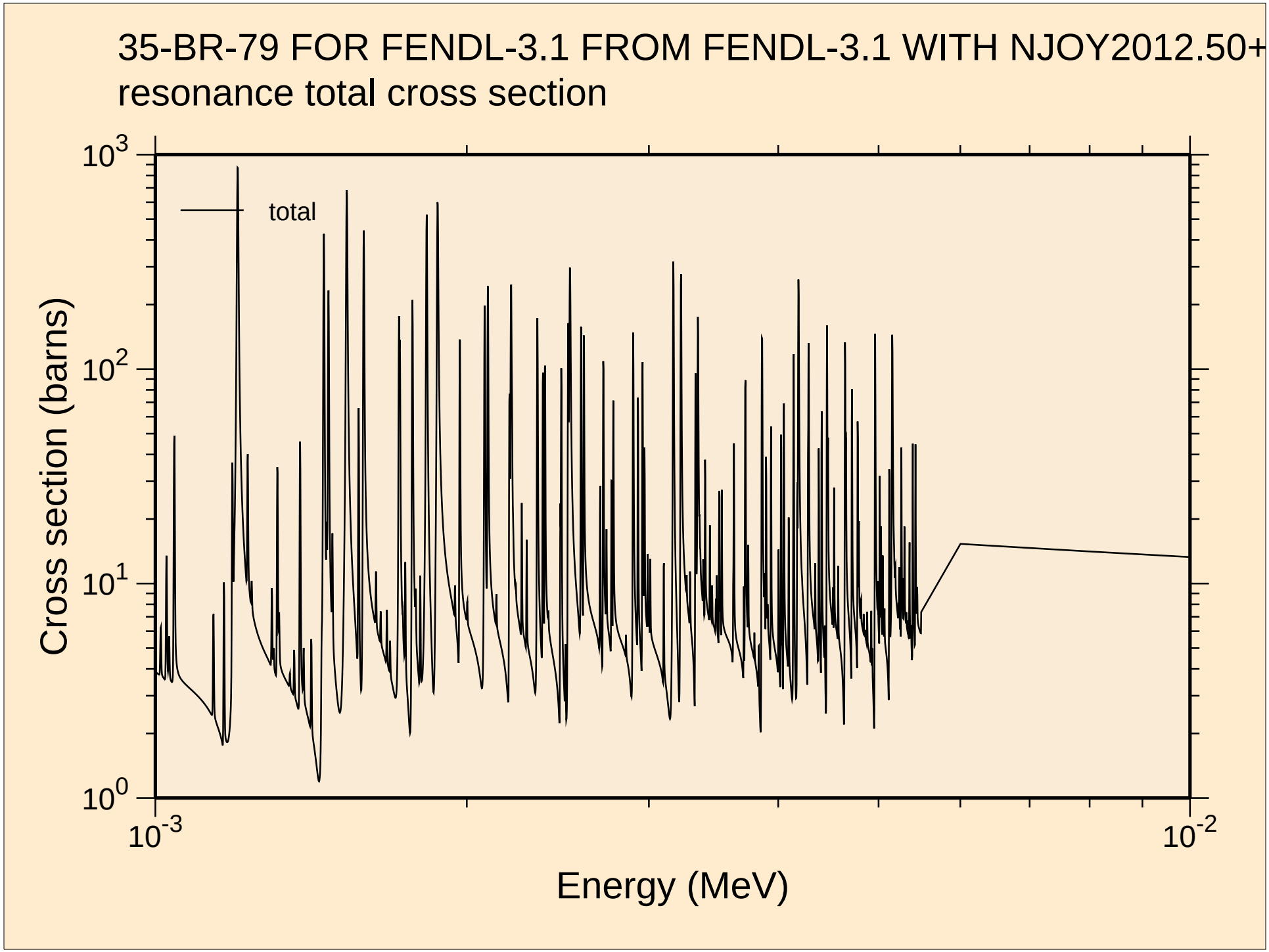
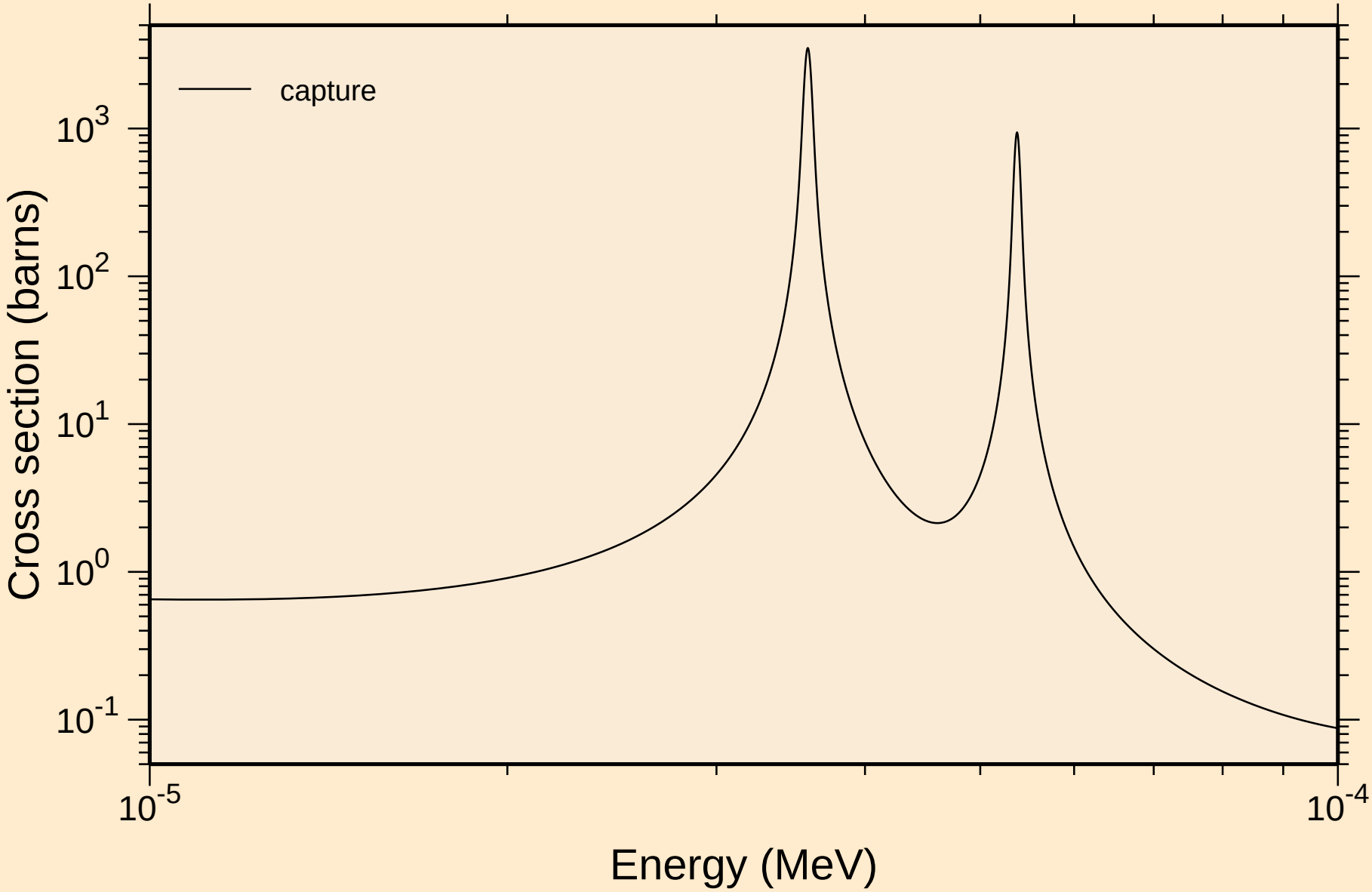

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production

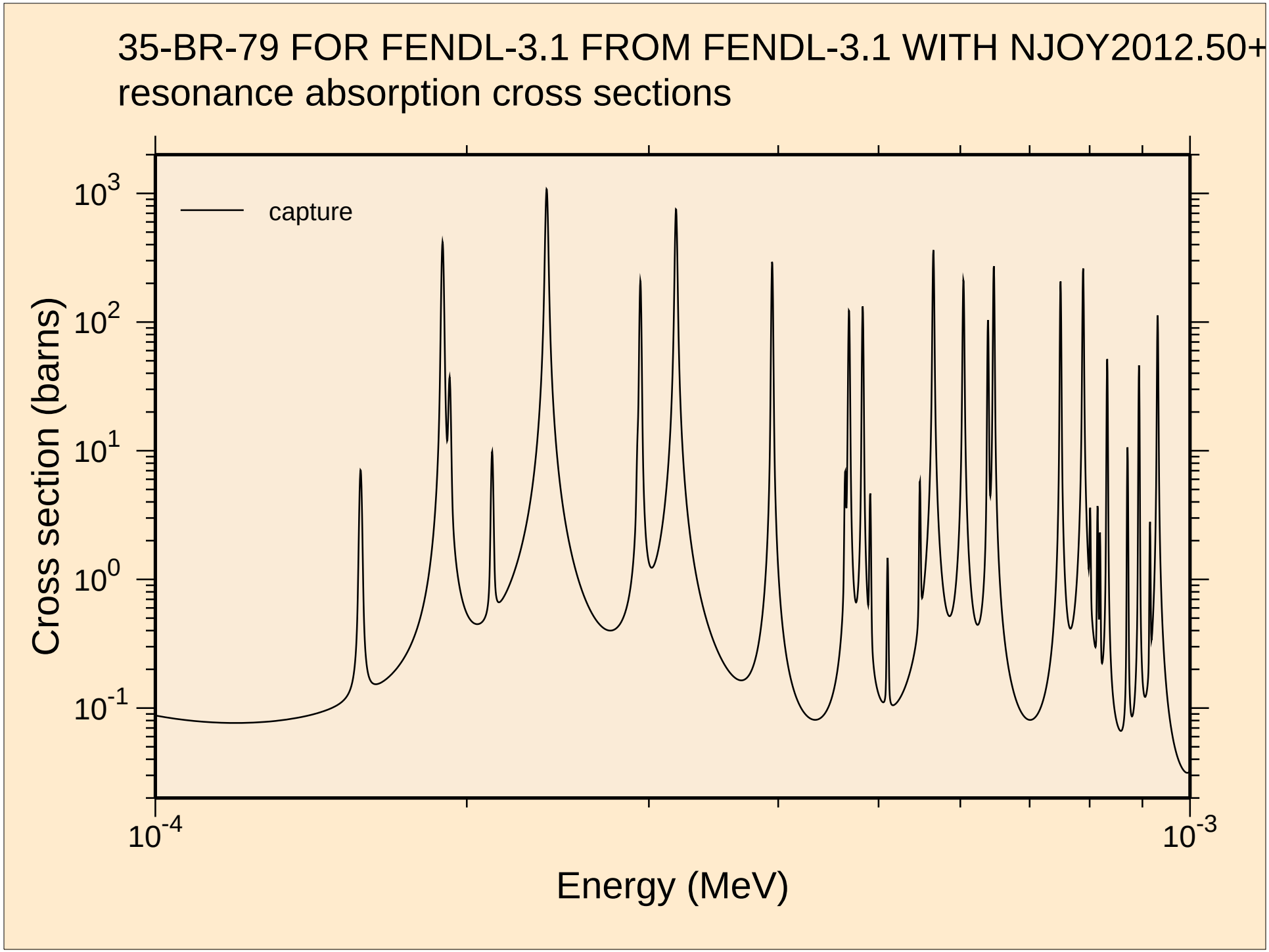

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^-5
10^-4
Energy (MeV)

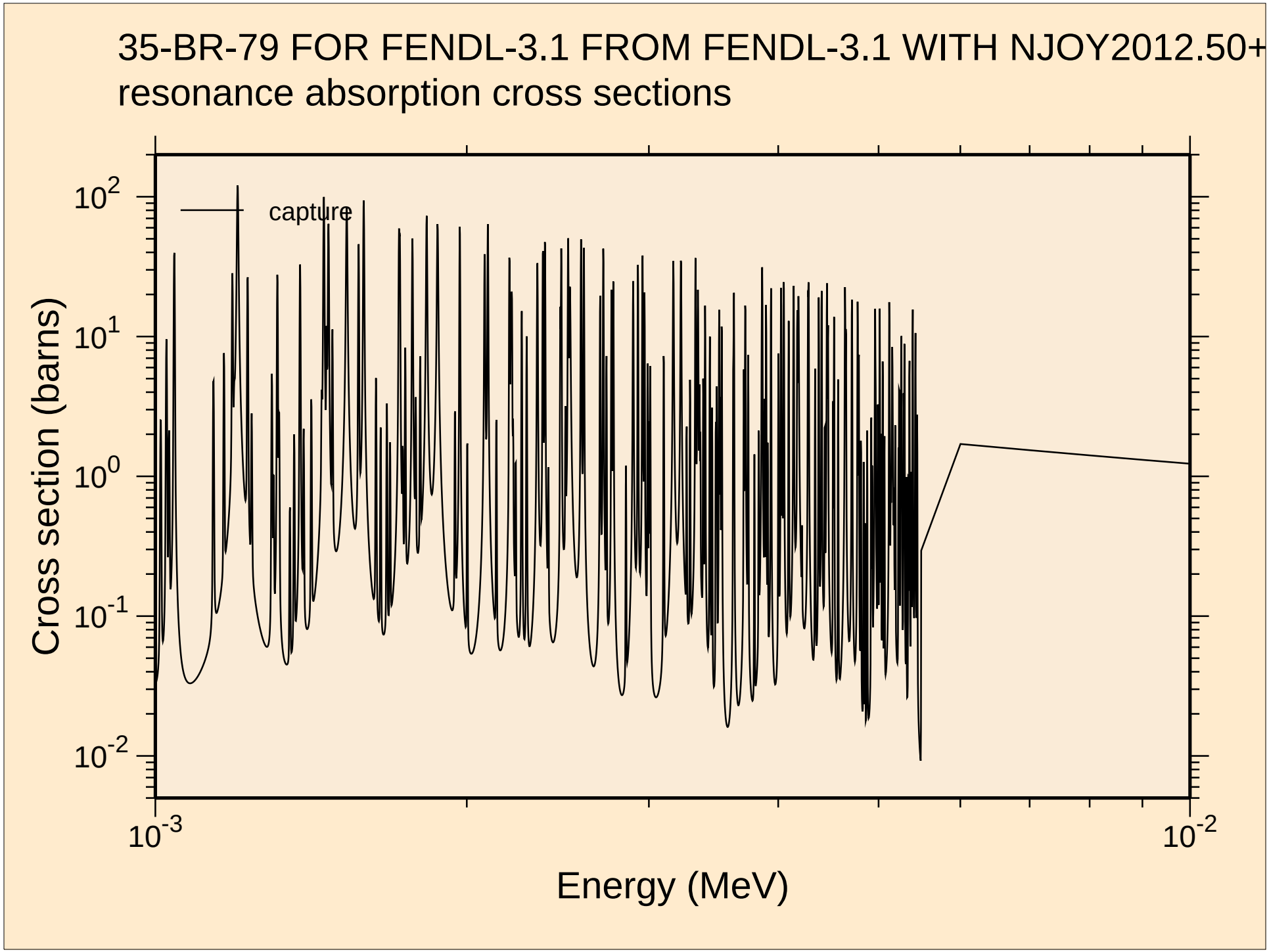

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^-4
10^-3
Energy (MeV)

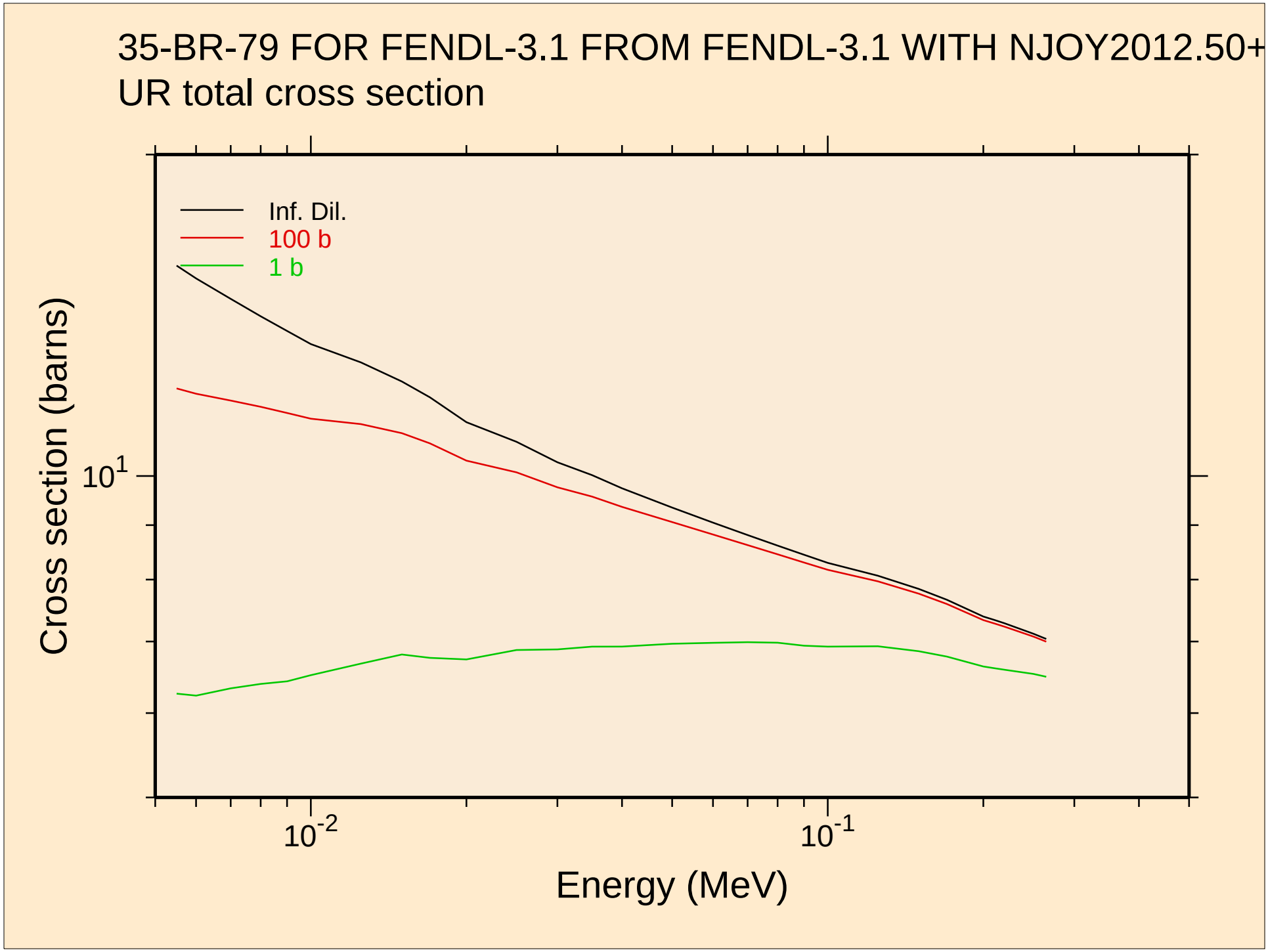

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^0
10^-3
10^-2
Energy (MeV)

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
resonance absorption cross sections

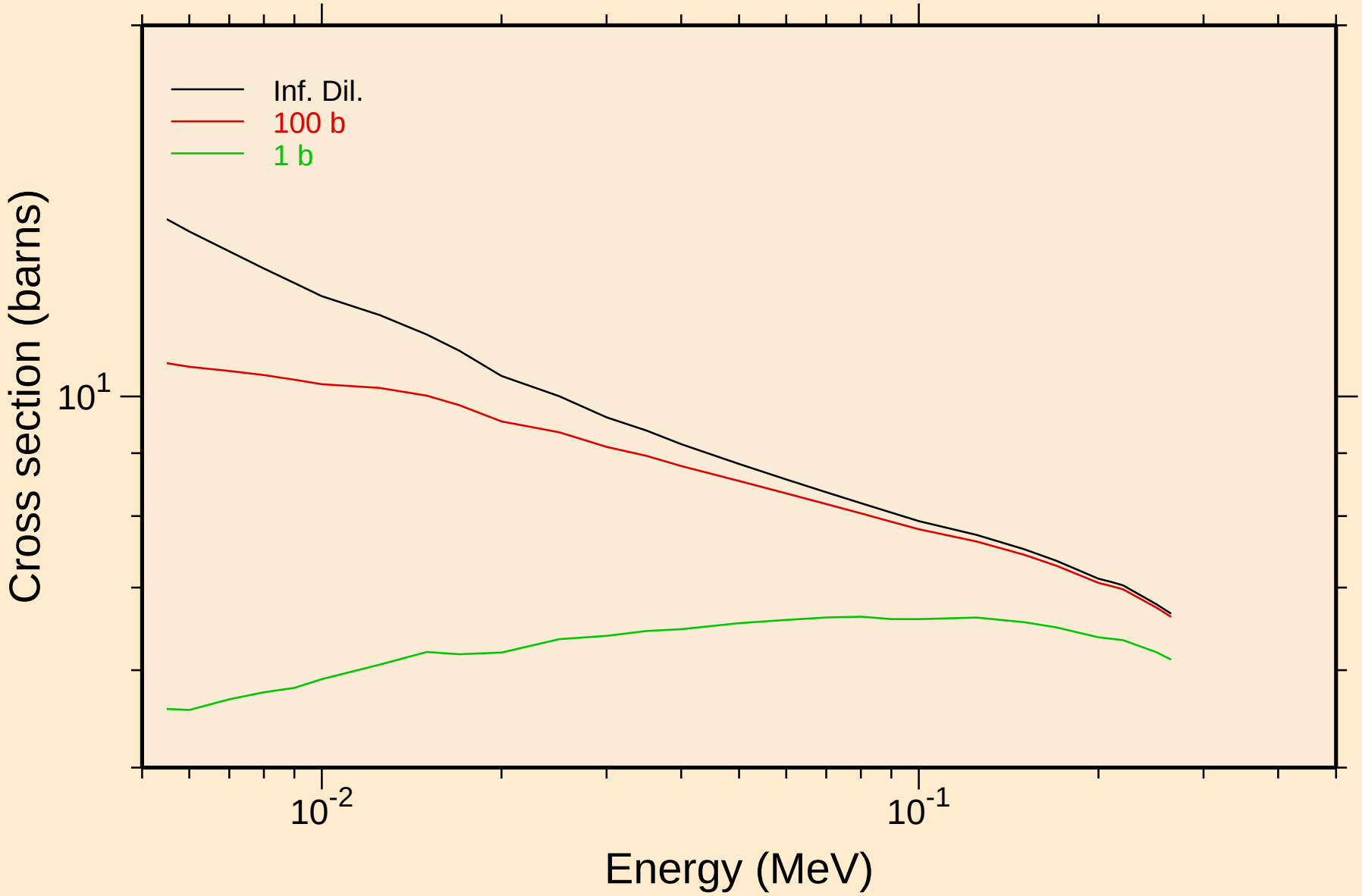


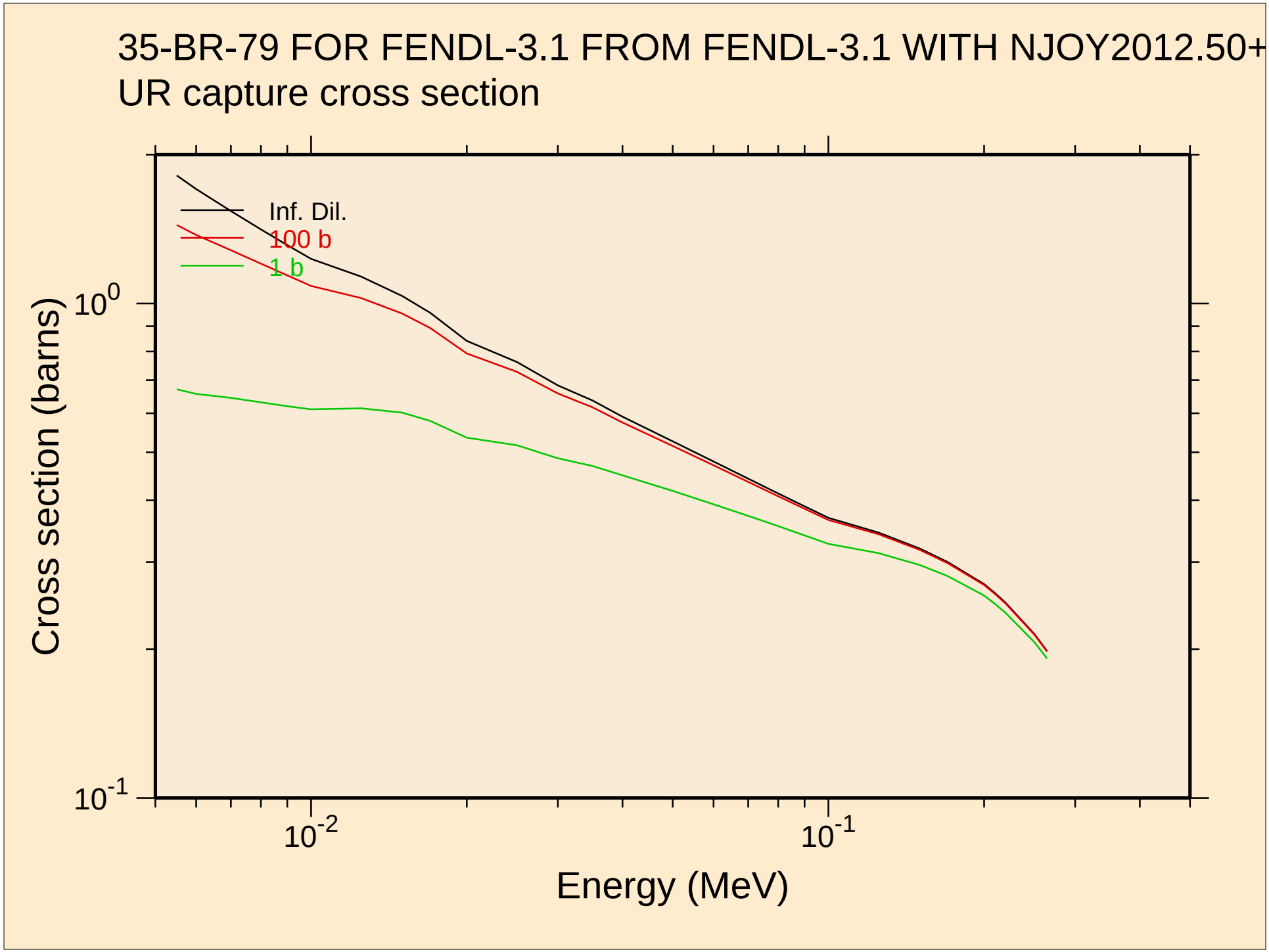

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
resonance absorption cross sections
capture
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-4
10^-3
Energy (MeV)

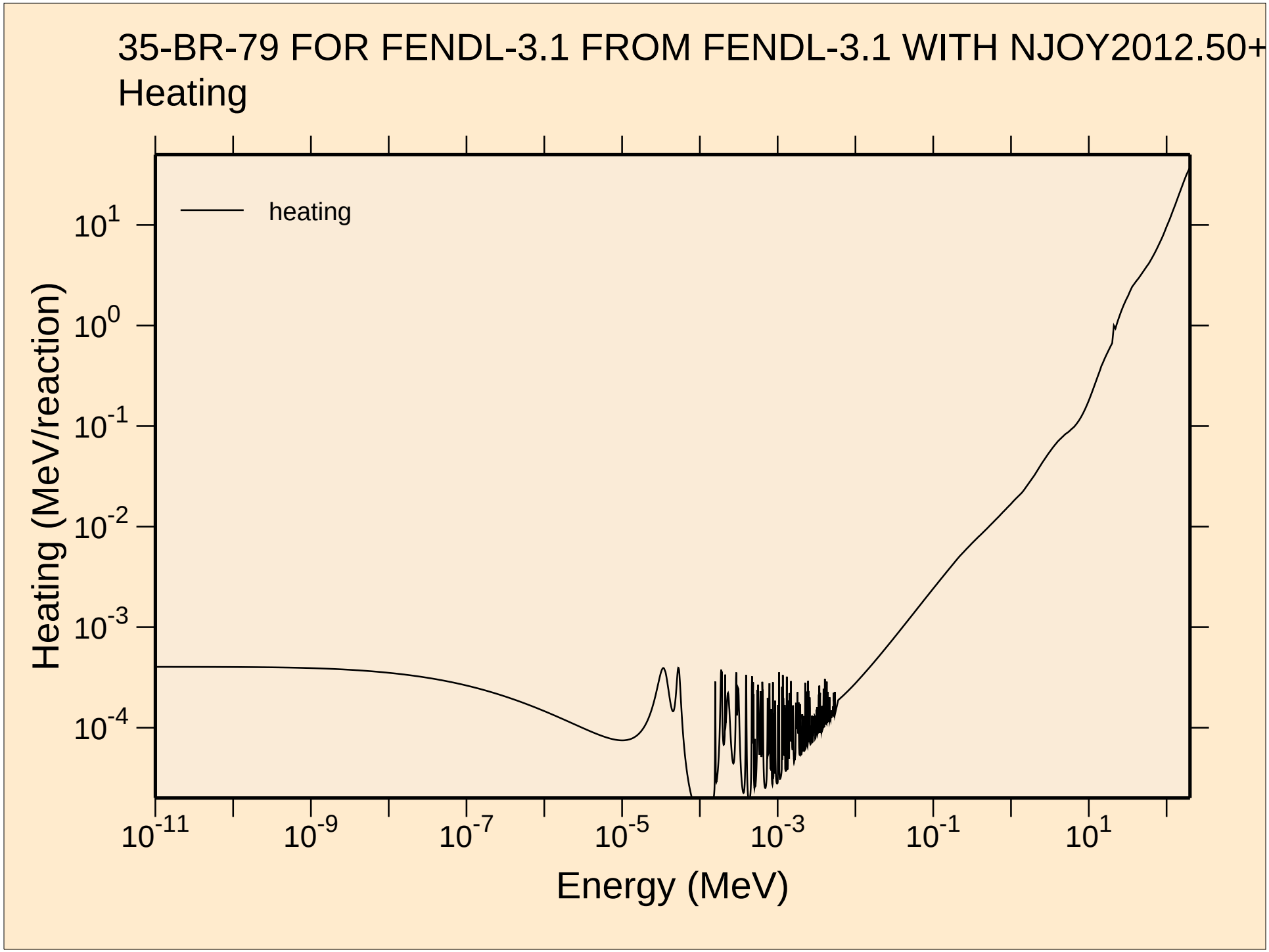

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
resonance absorption cross sections
capture
Cross section (barns)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-2
Energy (MeV)

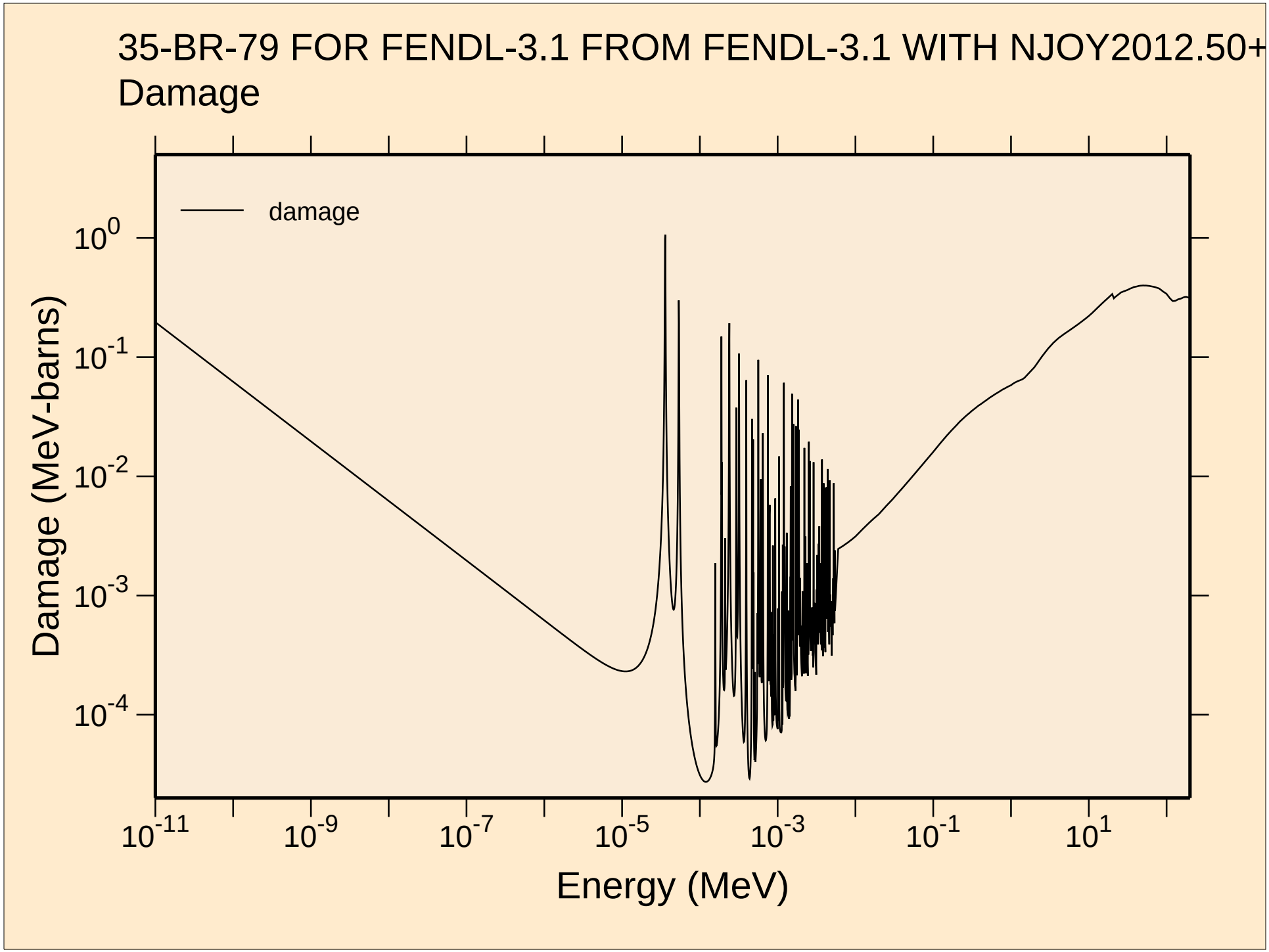

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
UR total cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^1
10^-2
10^-1
Energy (MeV)

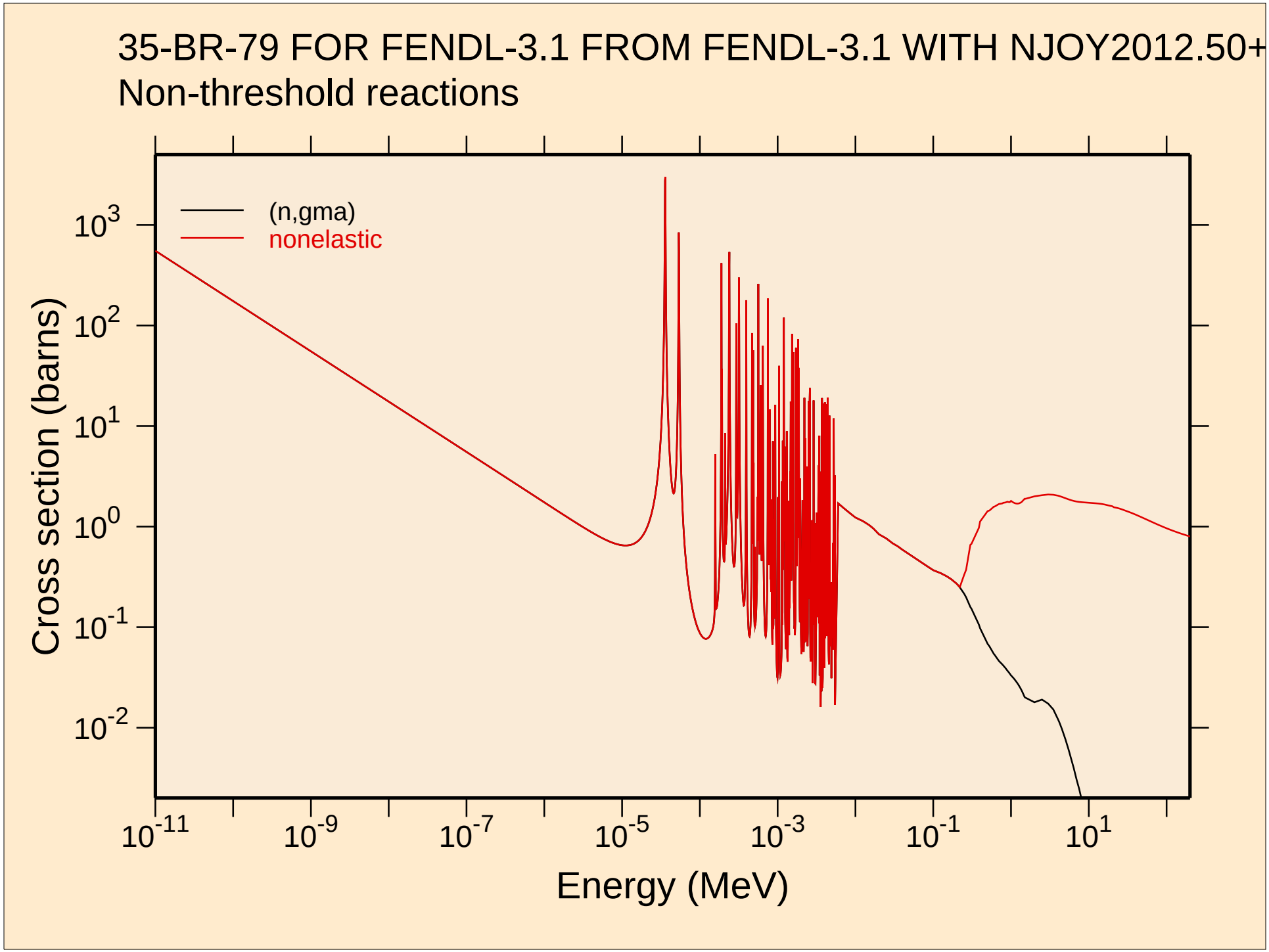
35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
UR elastic cross section

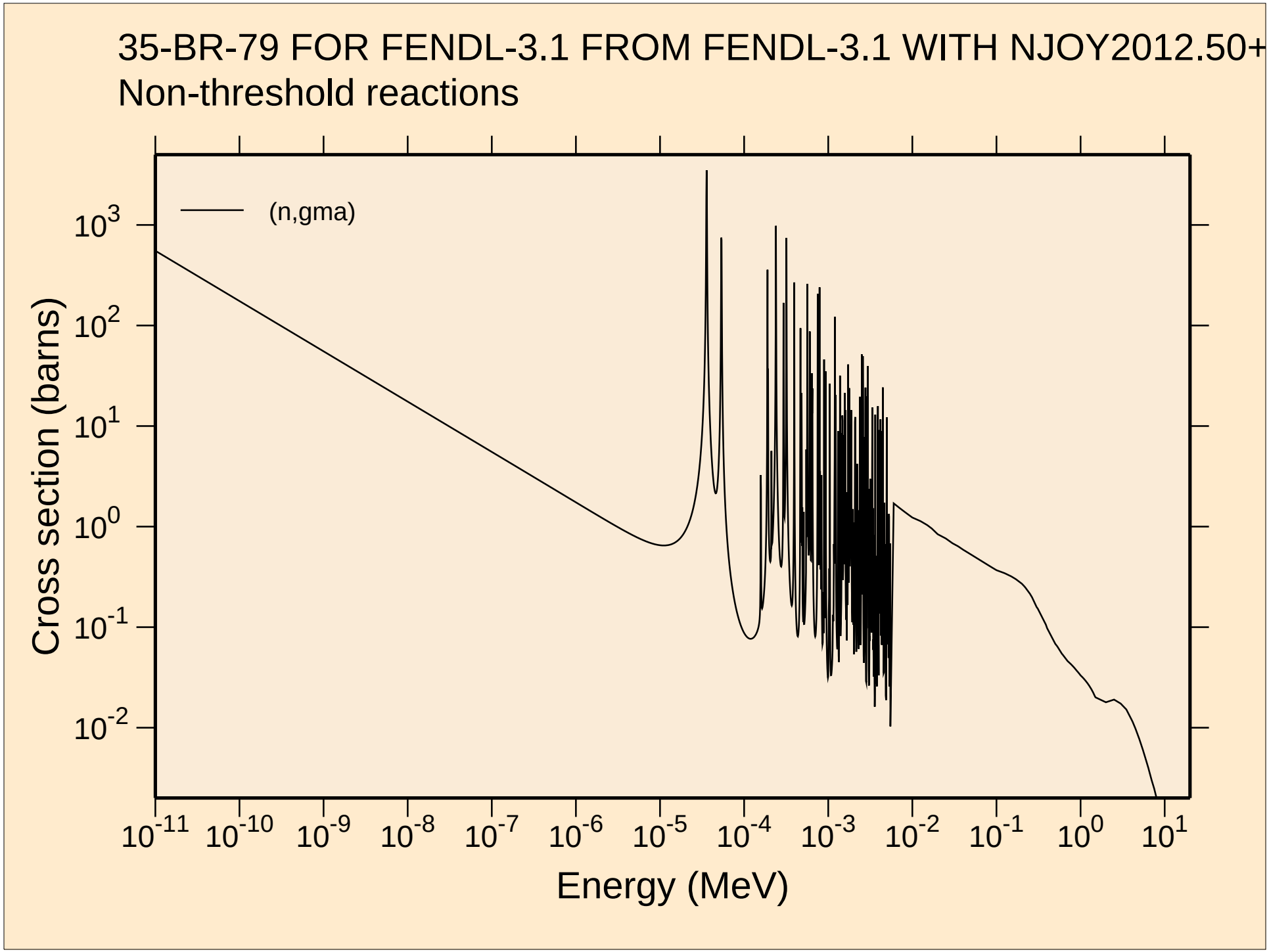


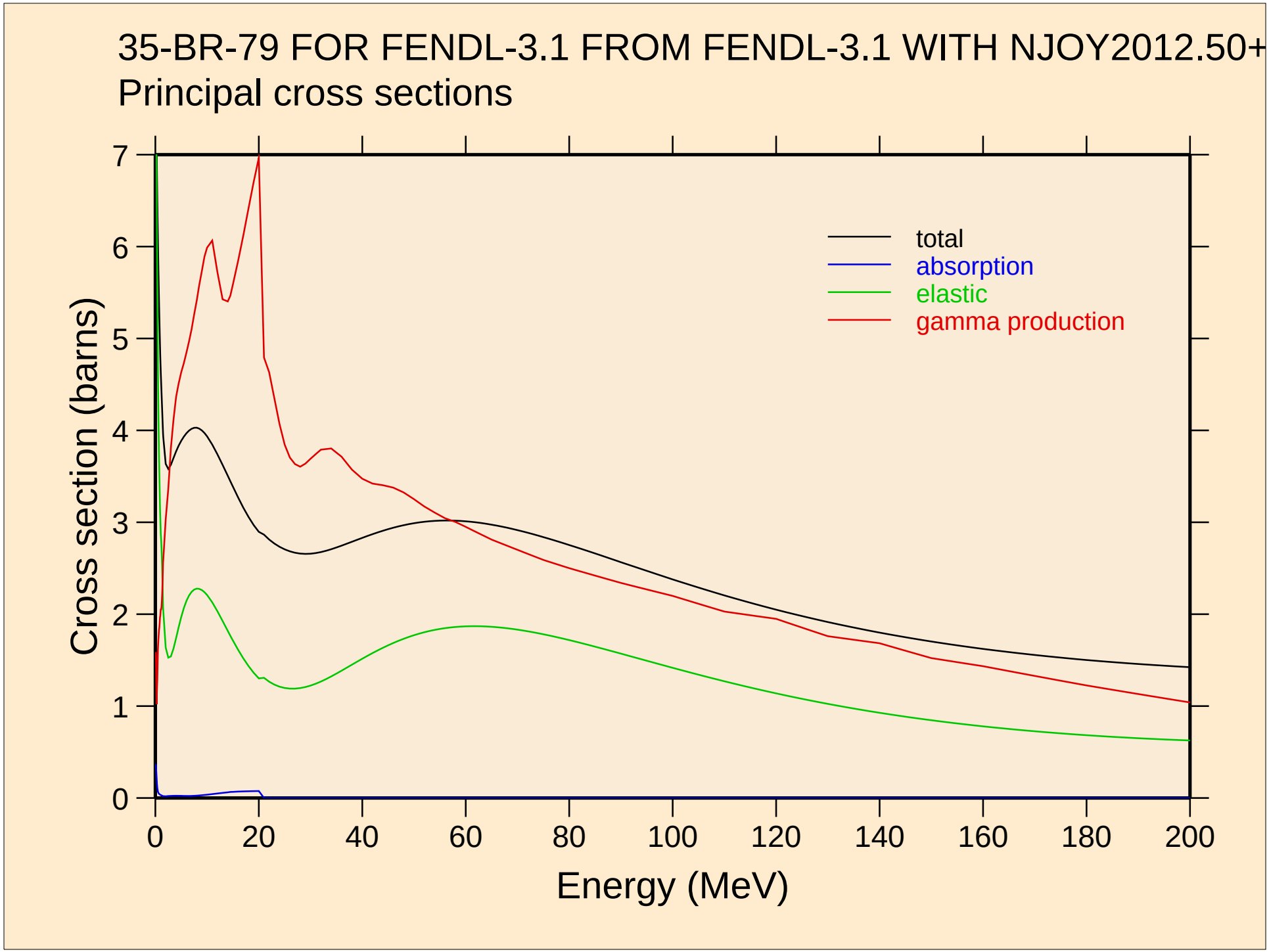

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
UR capture cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^0
10^-1
10^-2
10^-1
Energy (MeV)

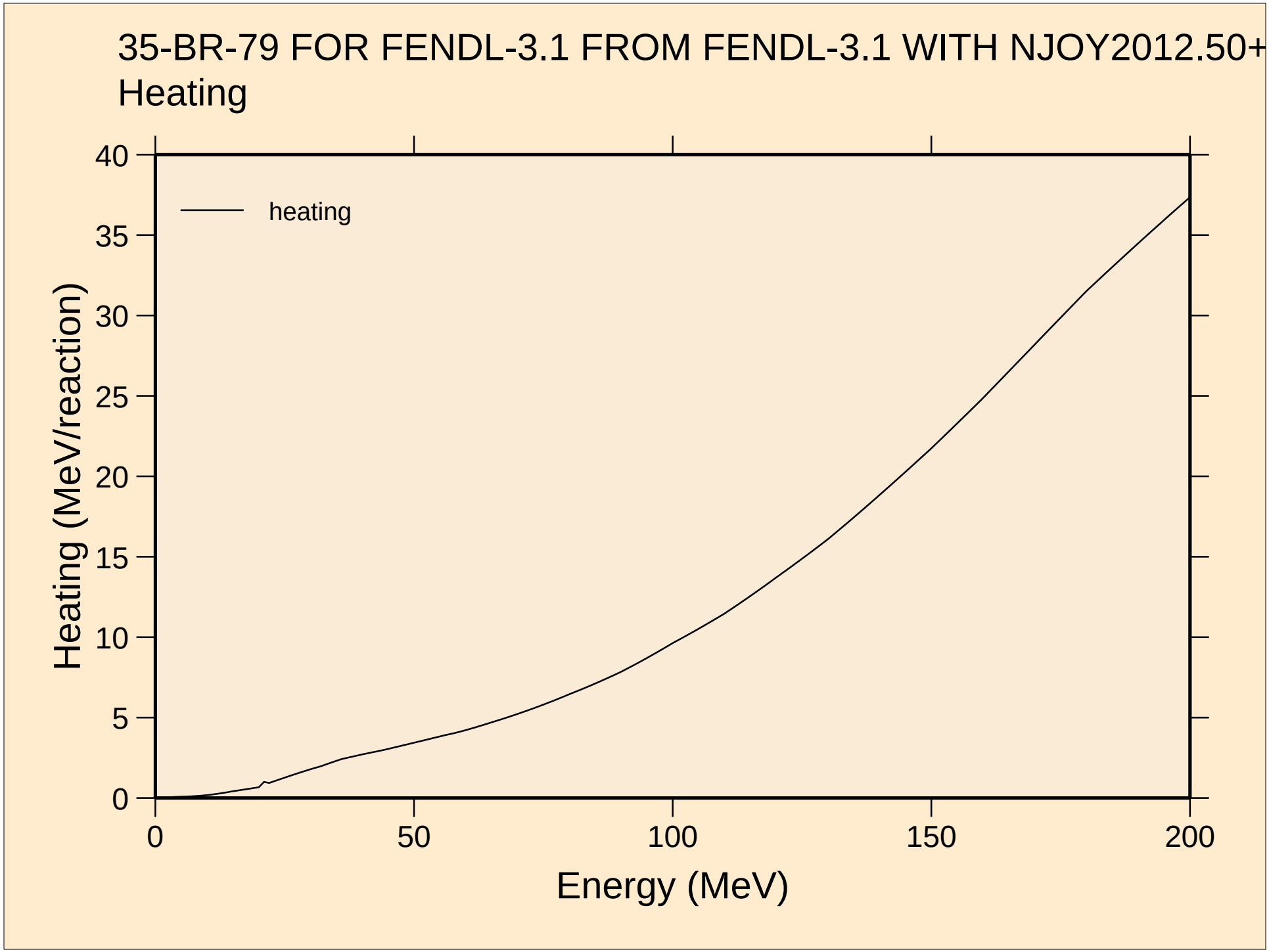

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Heating
heating
Heating (MeV/reaction)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

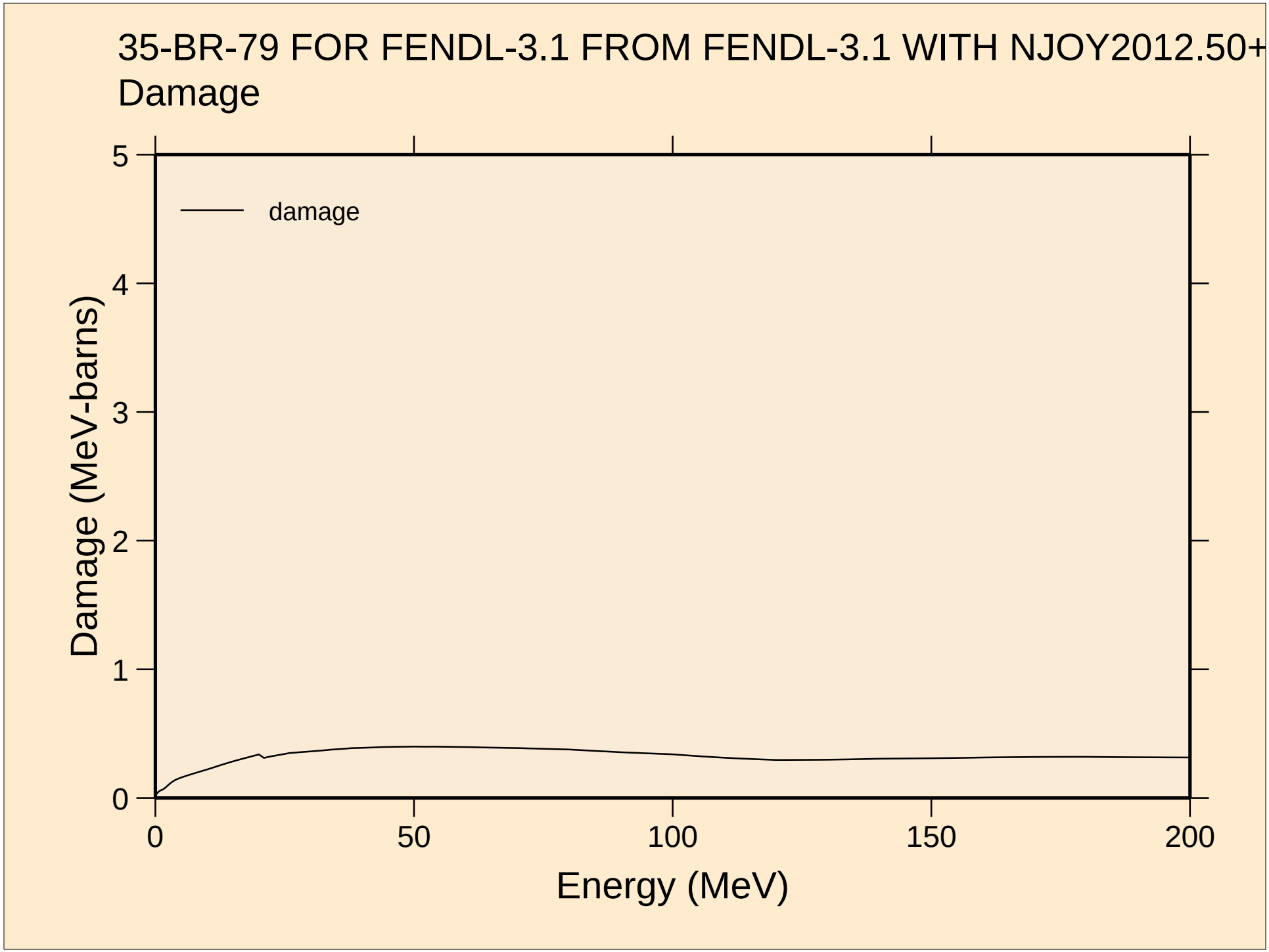

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Damage
damage
Damage (MeV-barns)
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

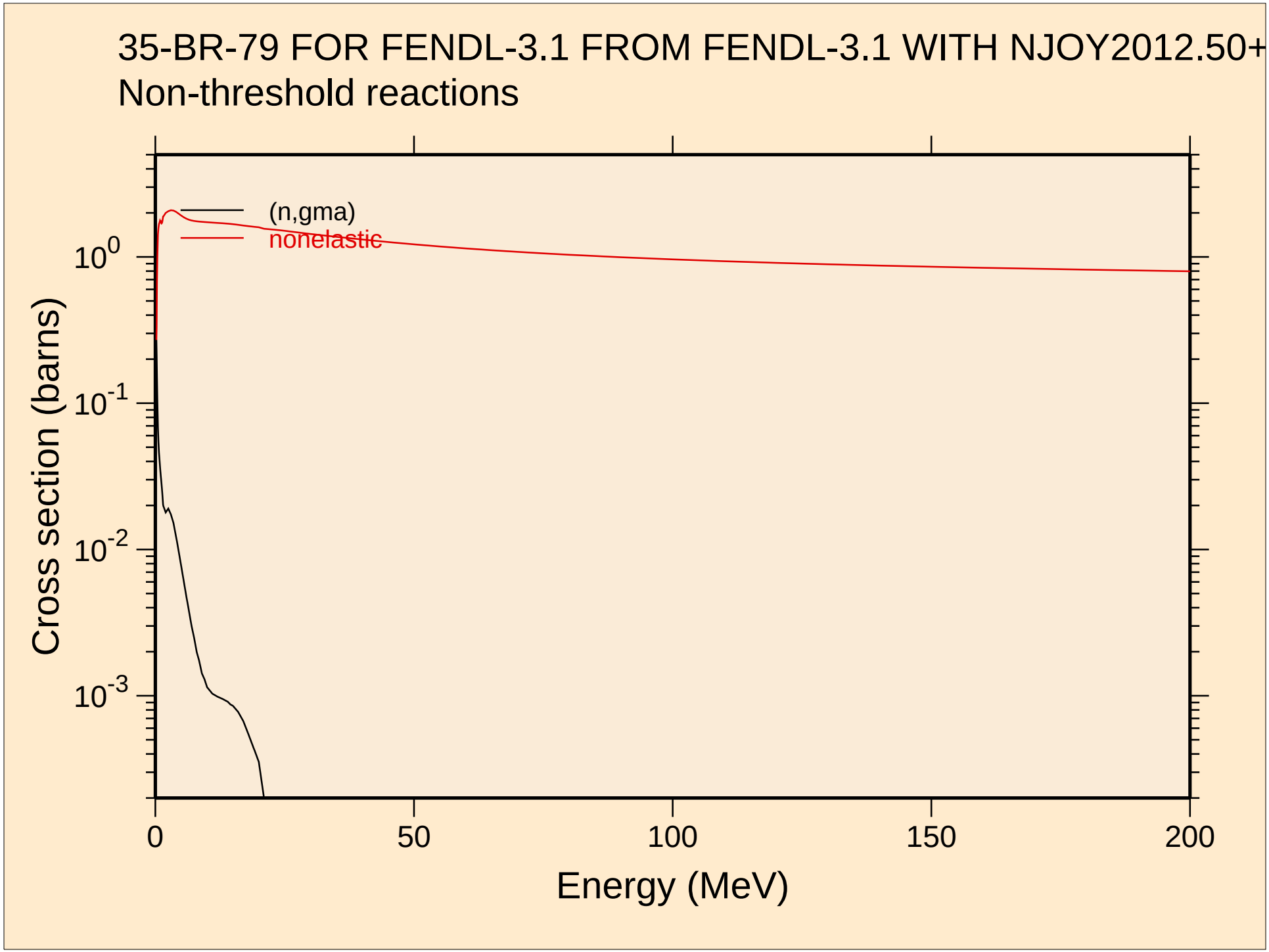

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Non-threshold reactions
(n,gma)
nonelastic
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

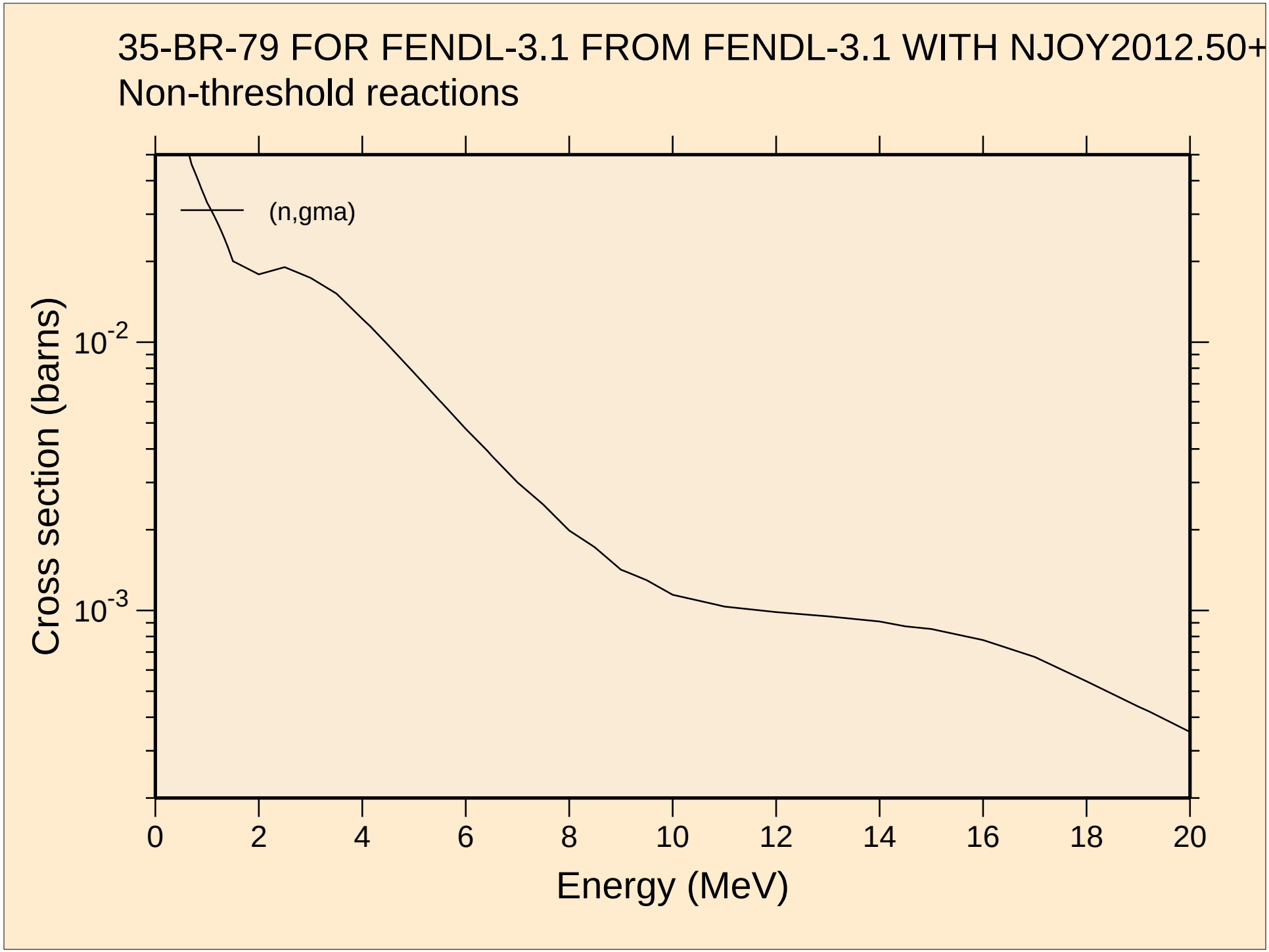

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Non-threshold reactions
(n,gma)
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-11 10^-10 10^-9 10^-8 10^-7 10^-6 10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1
Energy (MeV)

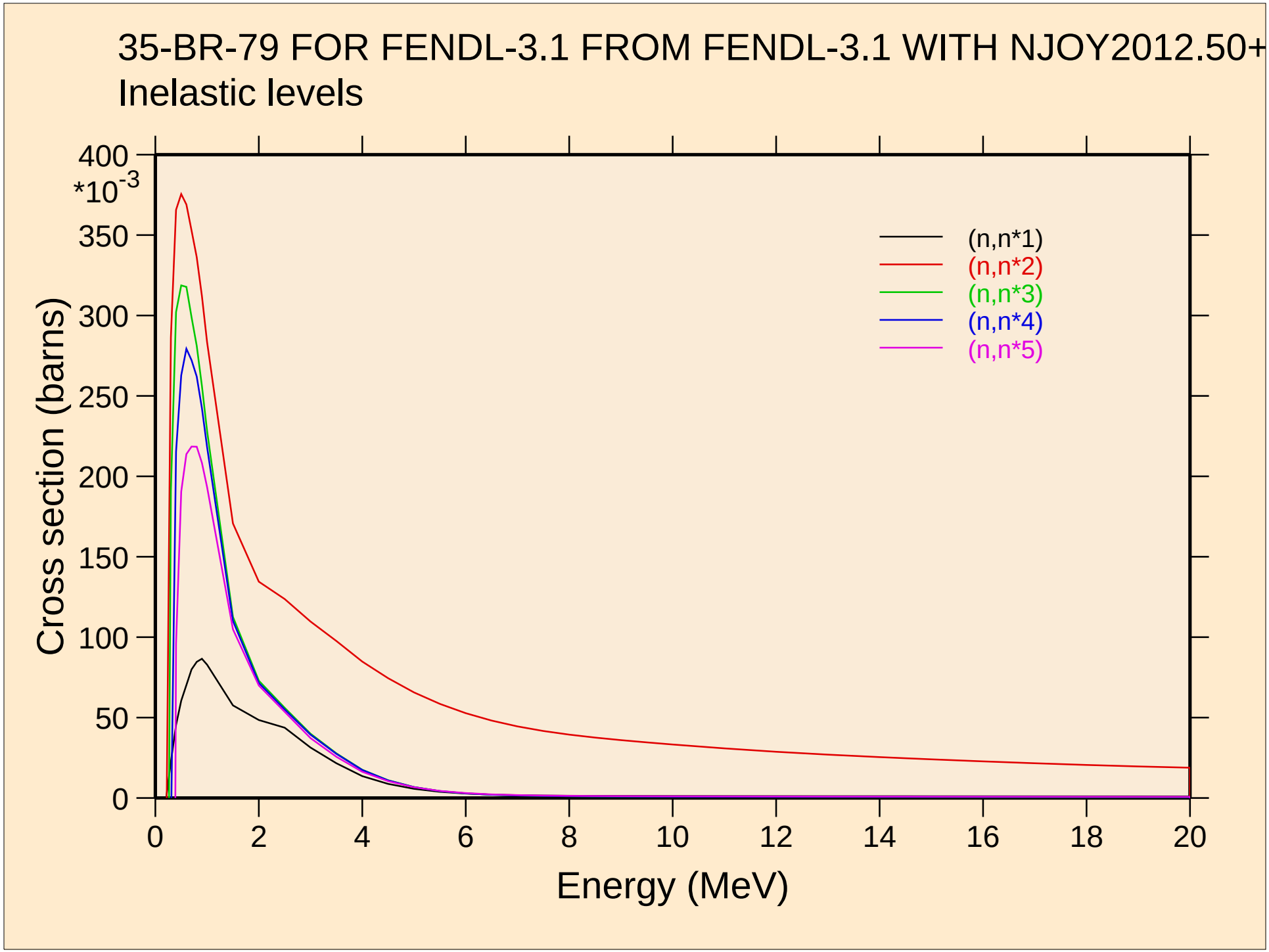

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Principal cross sections
Cross section (barns)
Energy (MeV)
0
1
2
3
4
5
6
7
0
20
40
60
80
100
120
140
160
180
200
total
absorption
elastic
gamma production

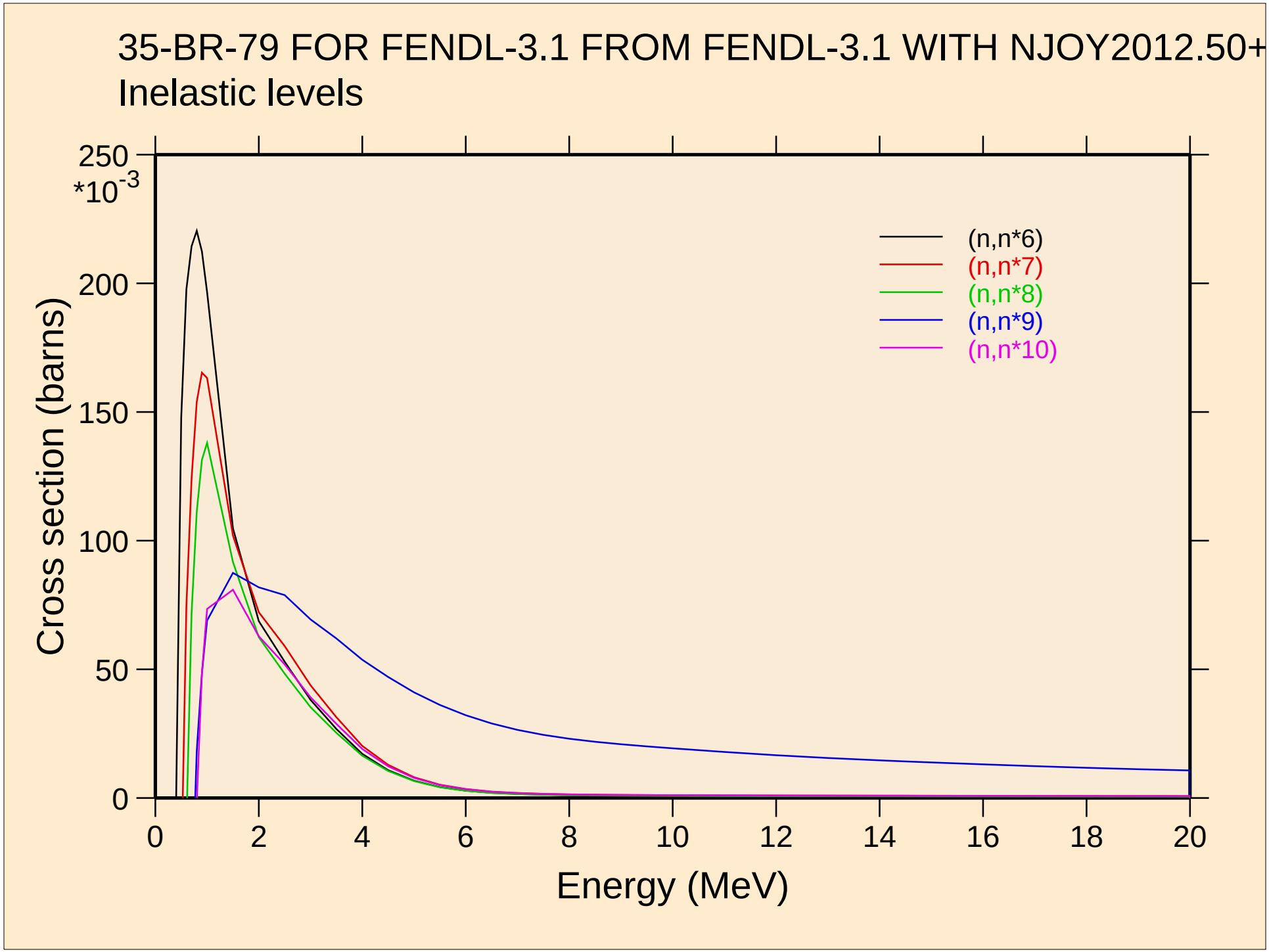

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
5
10
15
20
25
30
35
40
0
50
100
150
200

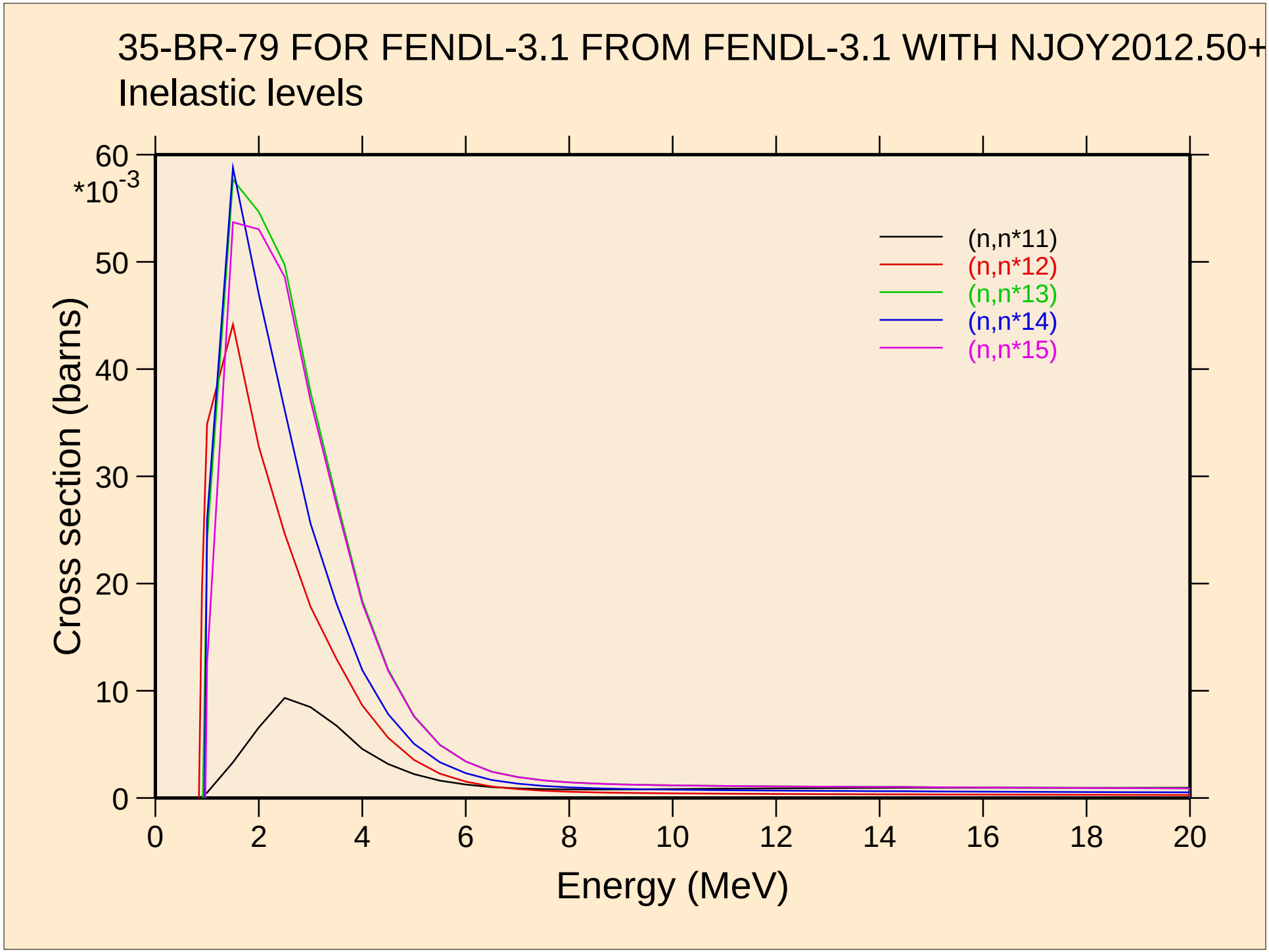

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Damage
damage
Damage (MeV-barns)
Energy (MeV)
0
1
2
3
4
5
0
50
100
150
200

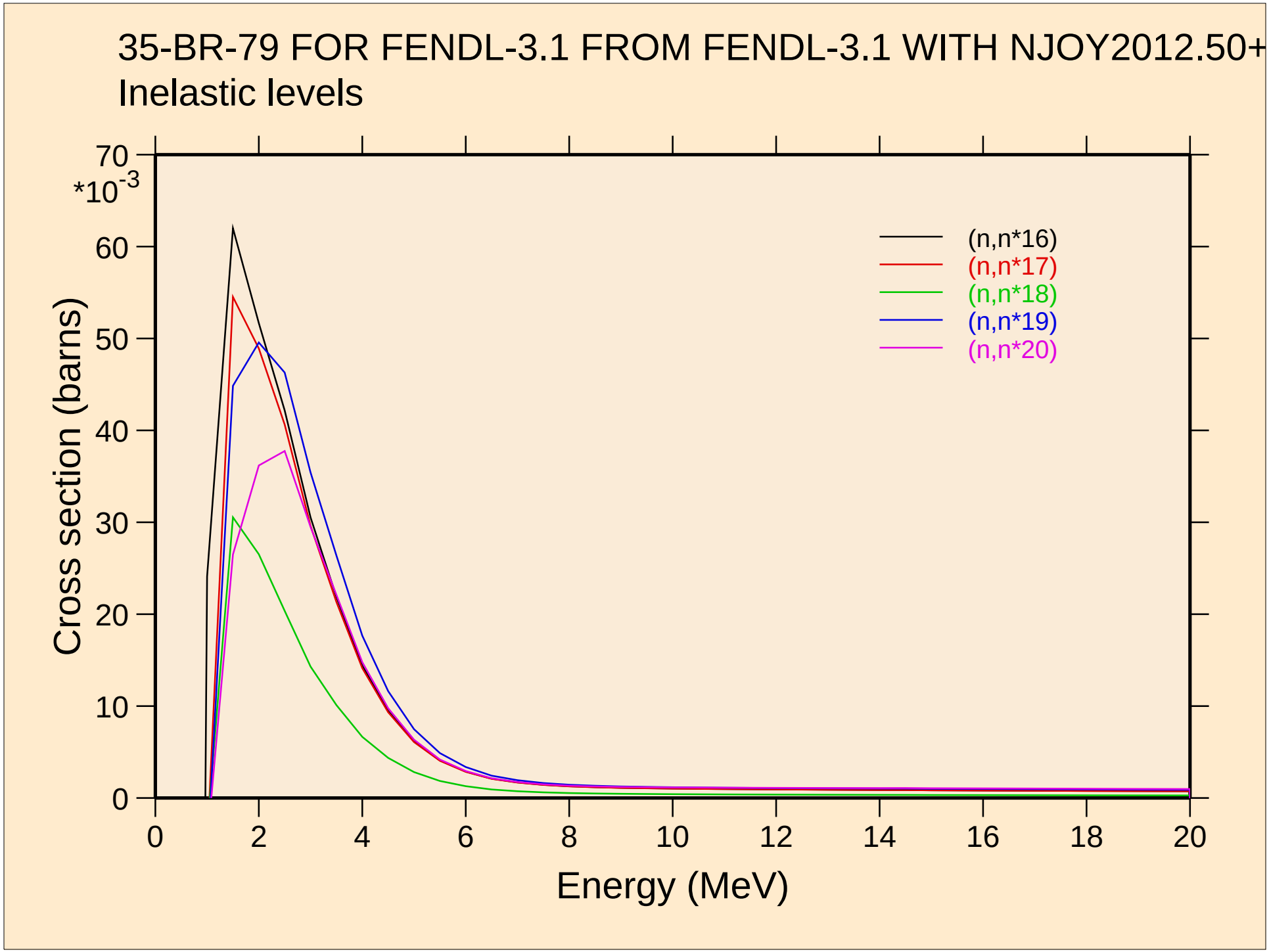

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Non-threshold reactions
(n,gma)
nonelastic
Cross section (barns)
10^0
10^-1
10^-2
10^-3
0
50
100
150
200
Energy (MeV)

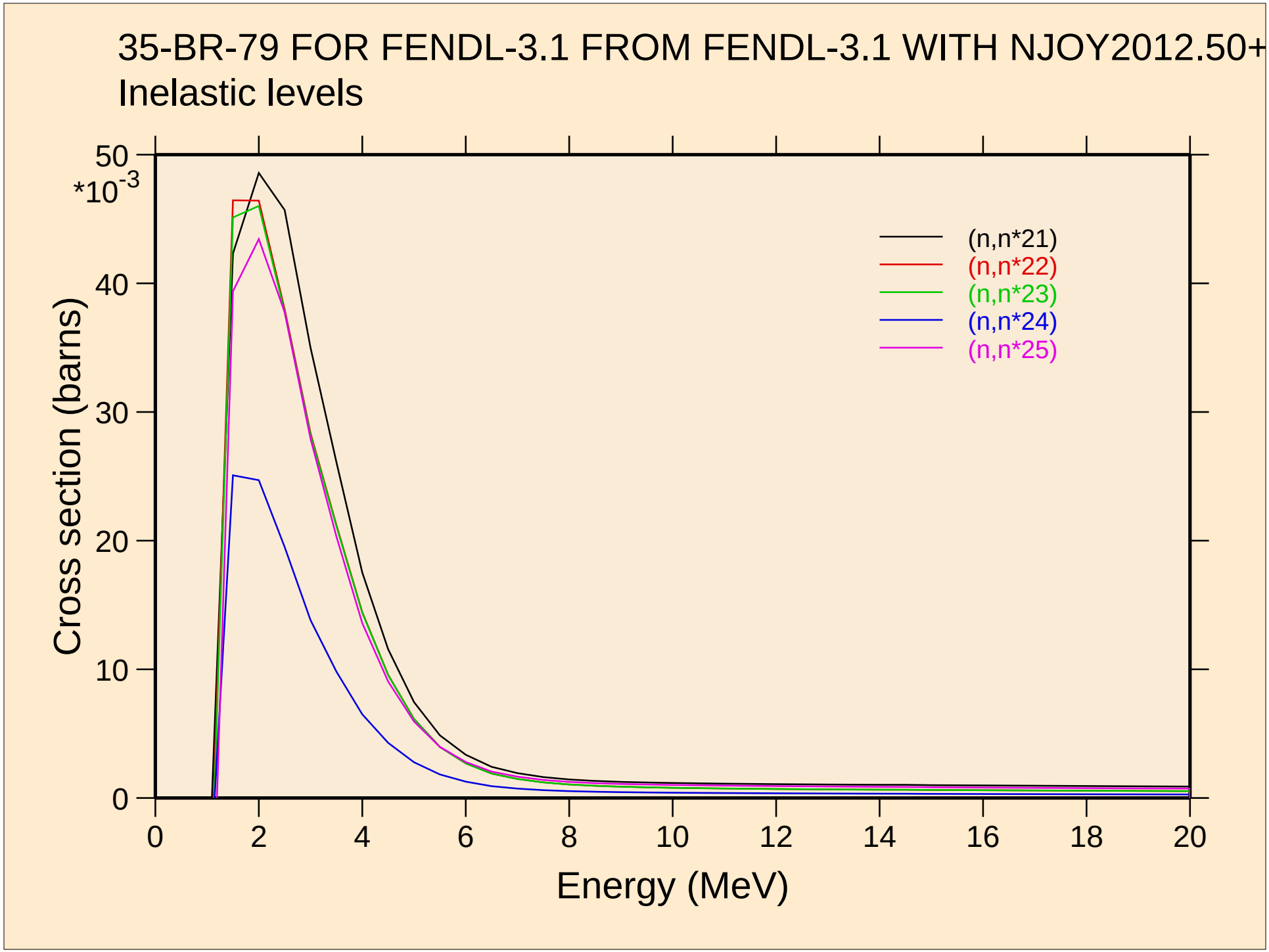

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Non-threshold reactions
(n,gma)
Cross section (barns)
10-2
10-3
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

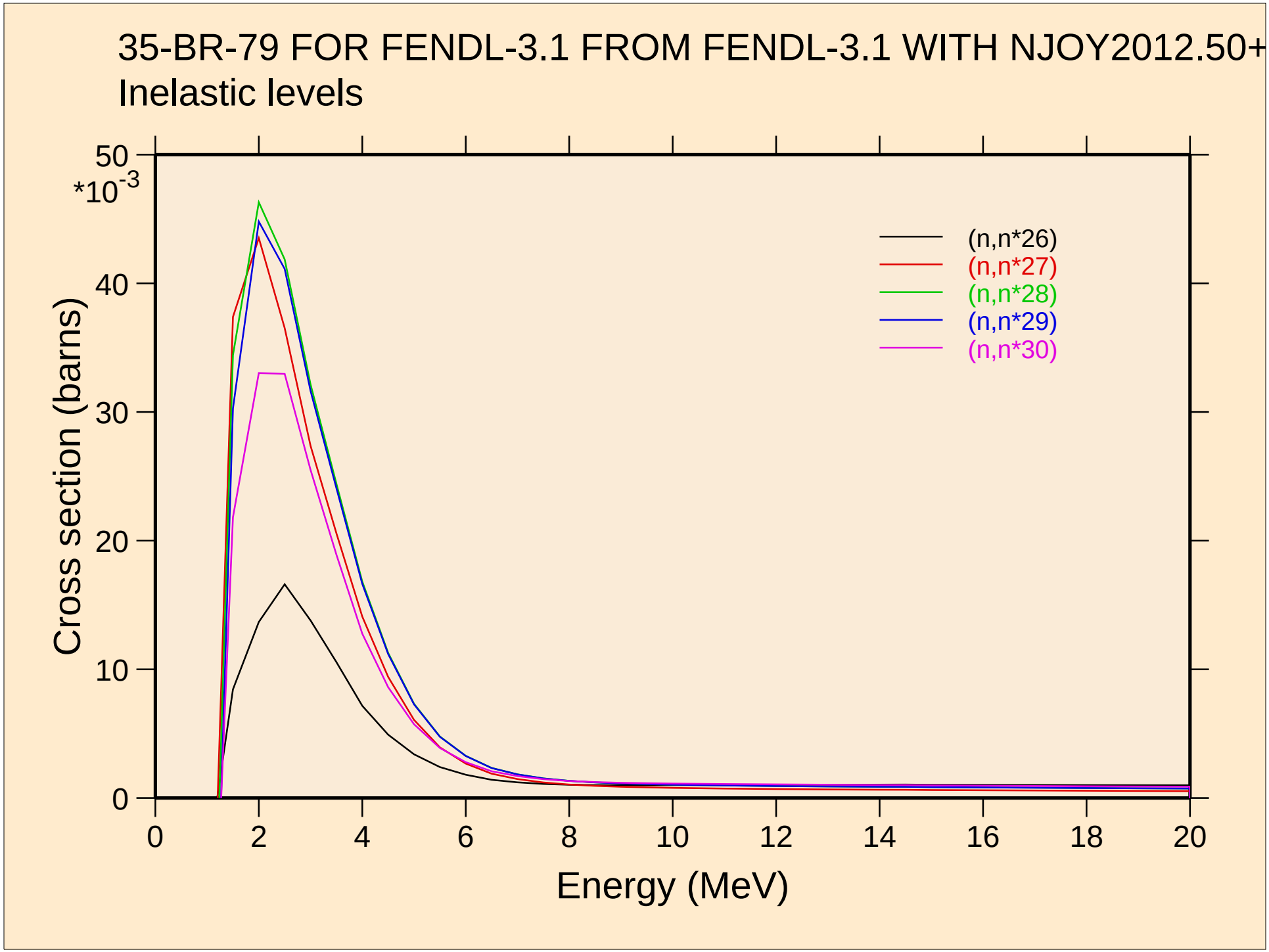

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Inelastic levels
Cross section (barns)
*10-3
400
350
300
250
200
150
100
50
0
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

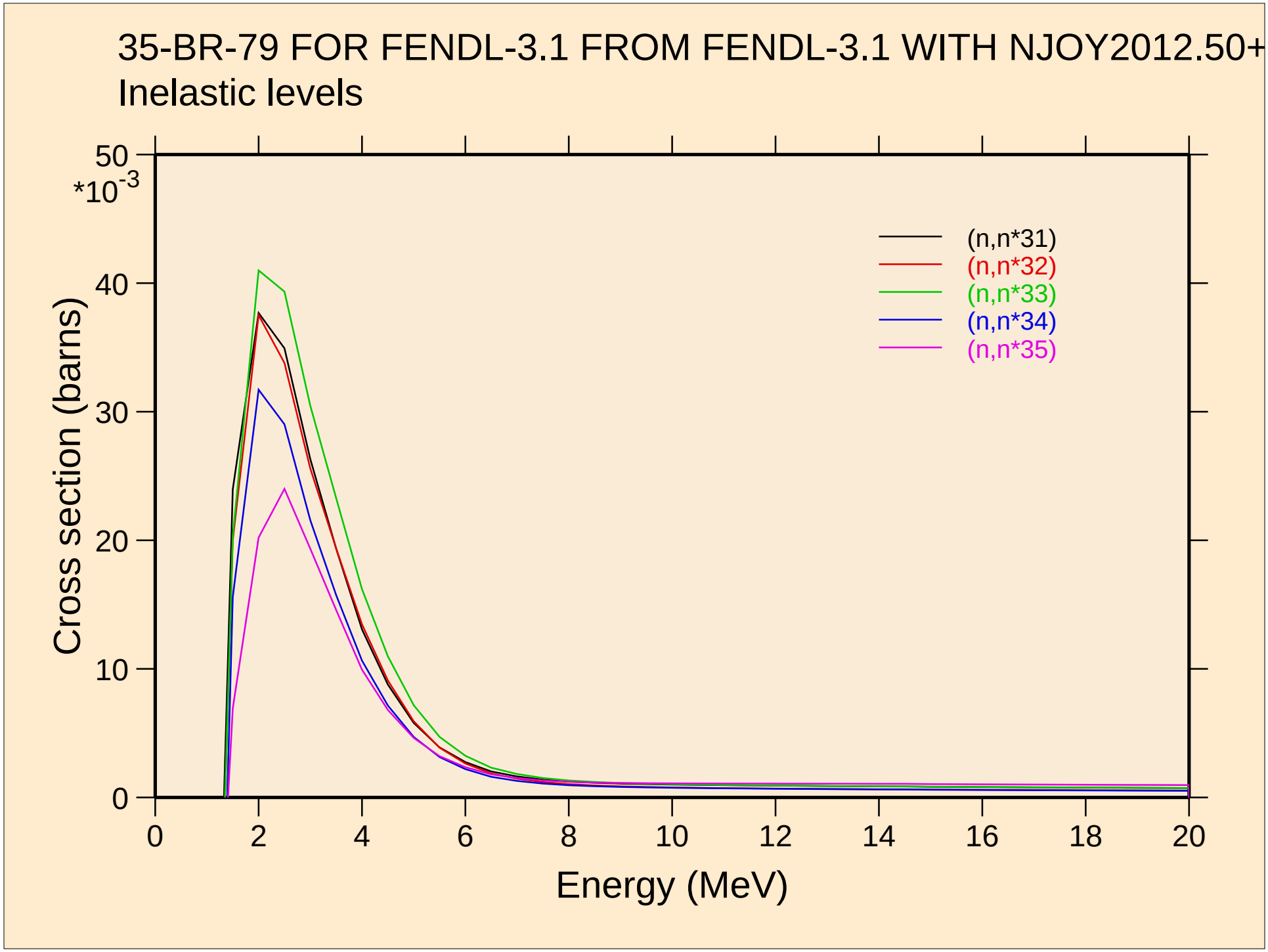

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Inelastic levels
Cross section (barns)
*10-3
250
200
150
100
50
0
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

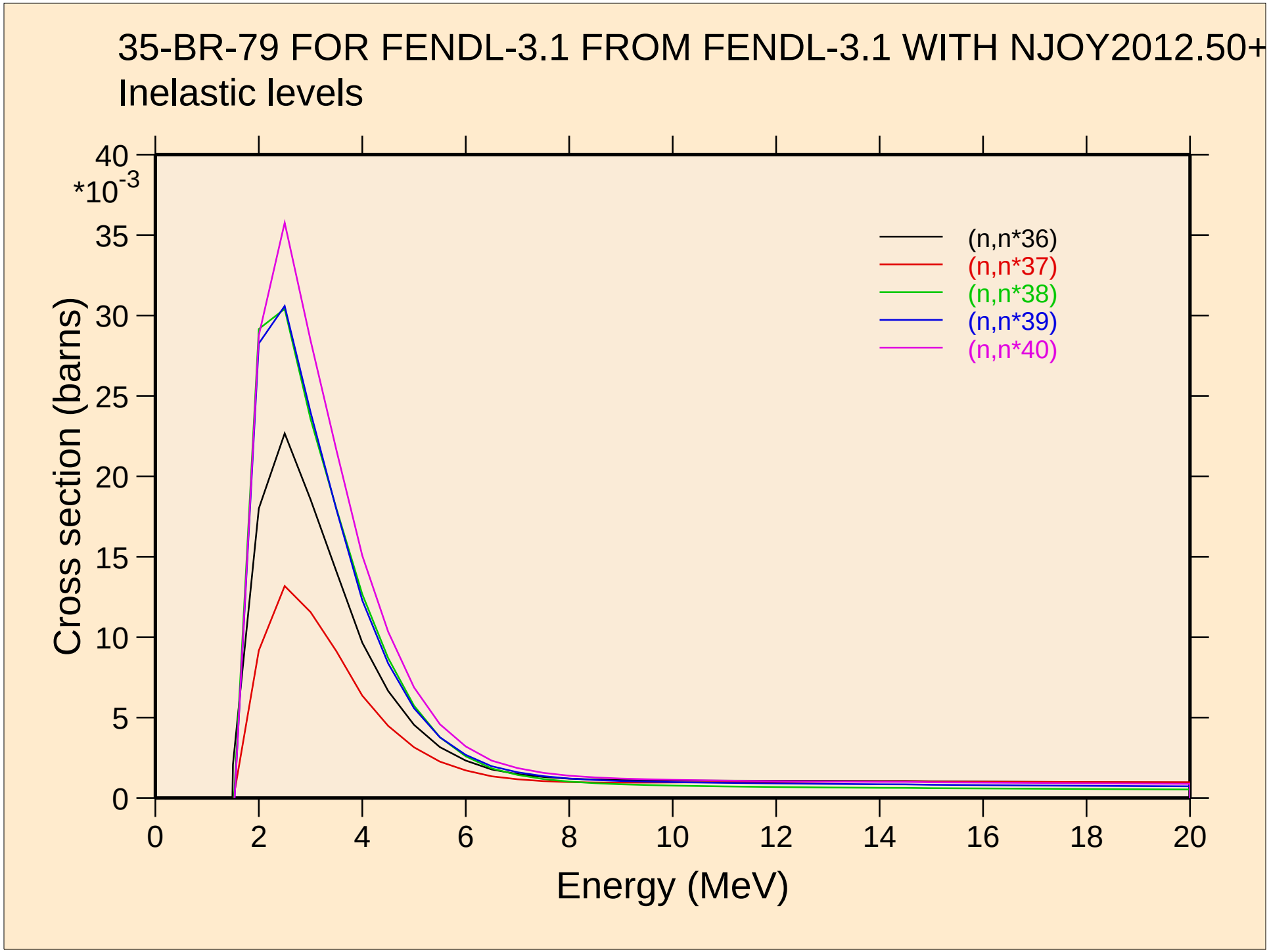

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Inelastic levels
Cross section (barns)
*10-3
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

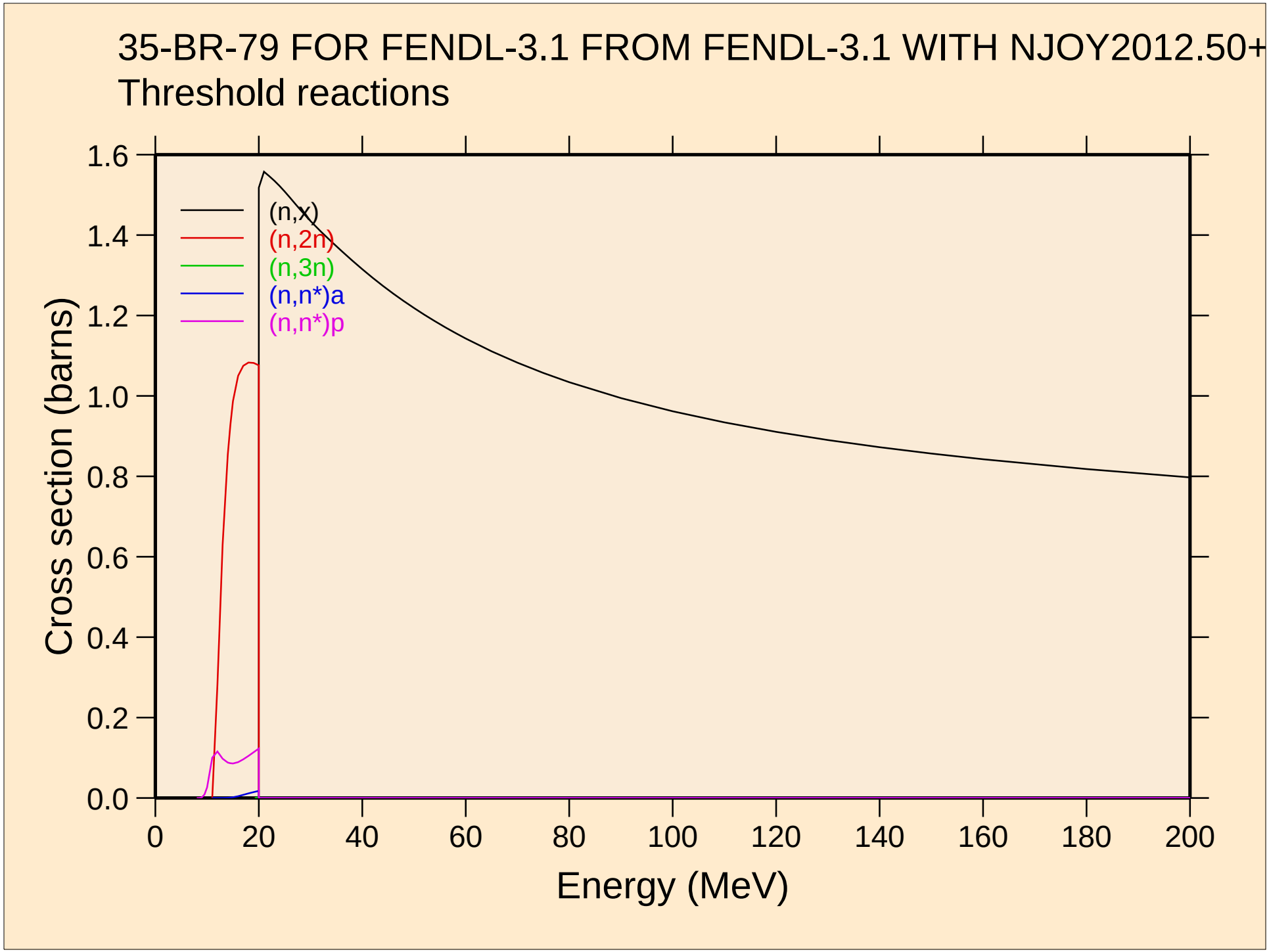

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Inelastic levels
Cross section (barns)
*10-3
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)
(n,n*20)

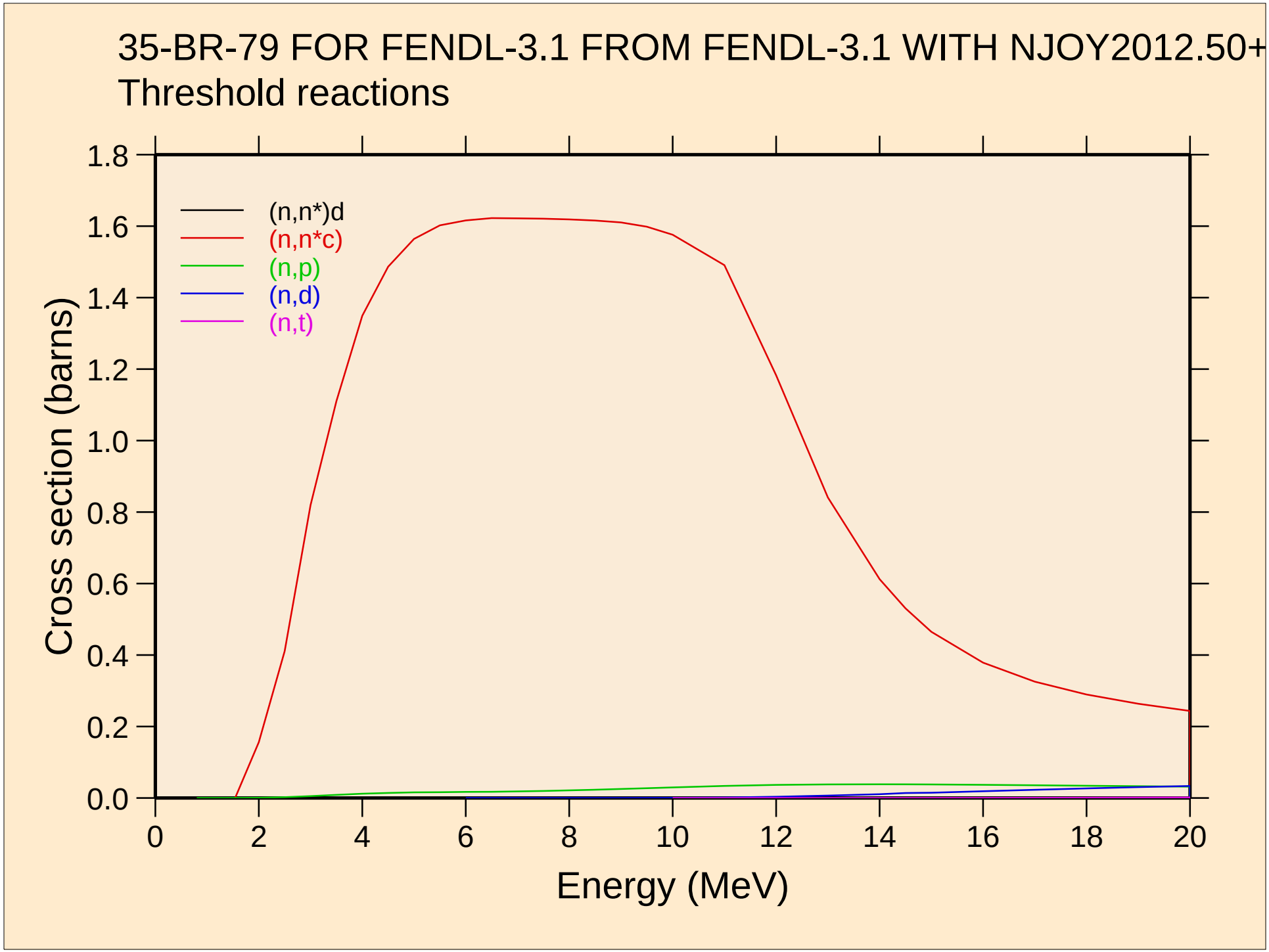

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Inelastic levels
Cross section (barns)
*10-3
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*21)
(n,n*22)
(n,n*23)
(n,n*24)
(n,n*25)

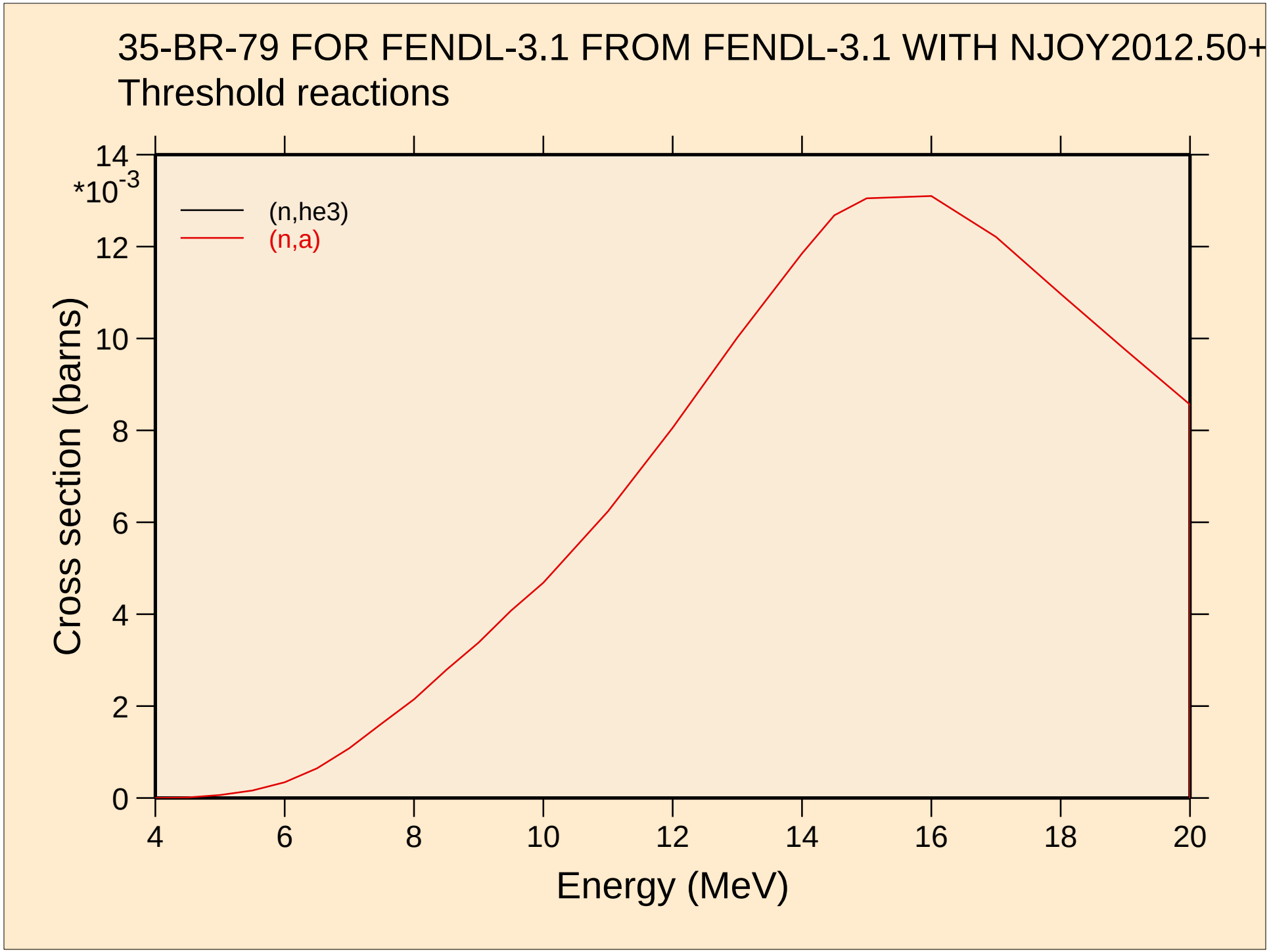

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Inelastic levels
Cross section (barns)
*10-3
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*26)
(n,n*27)
(n,n*28)
(n,n*29)
(n,n*30)

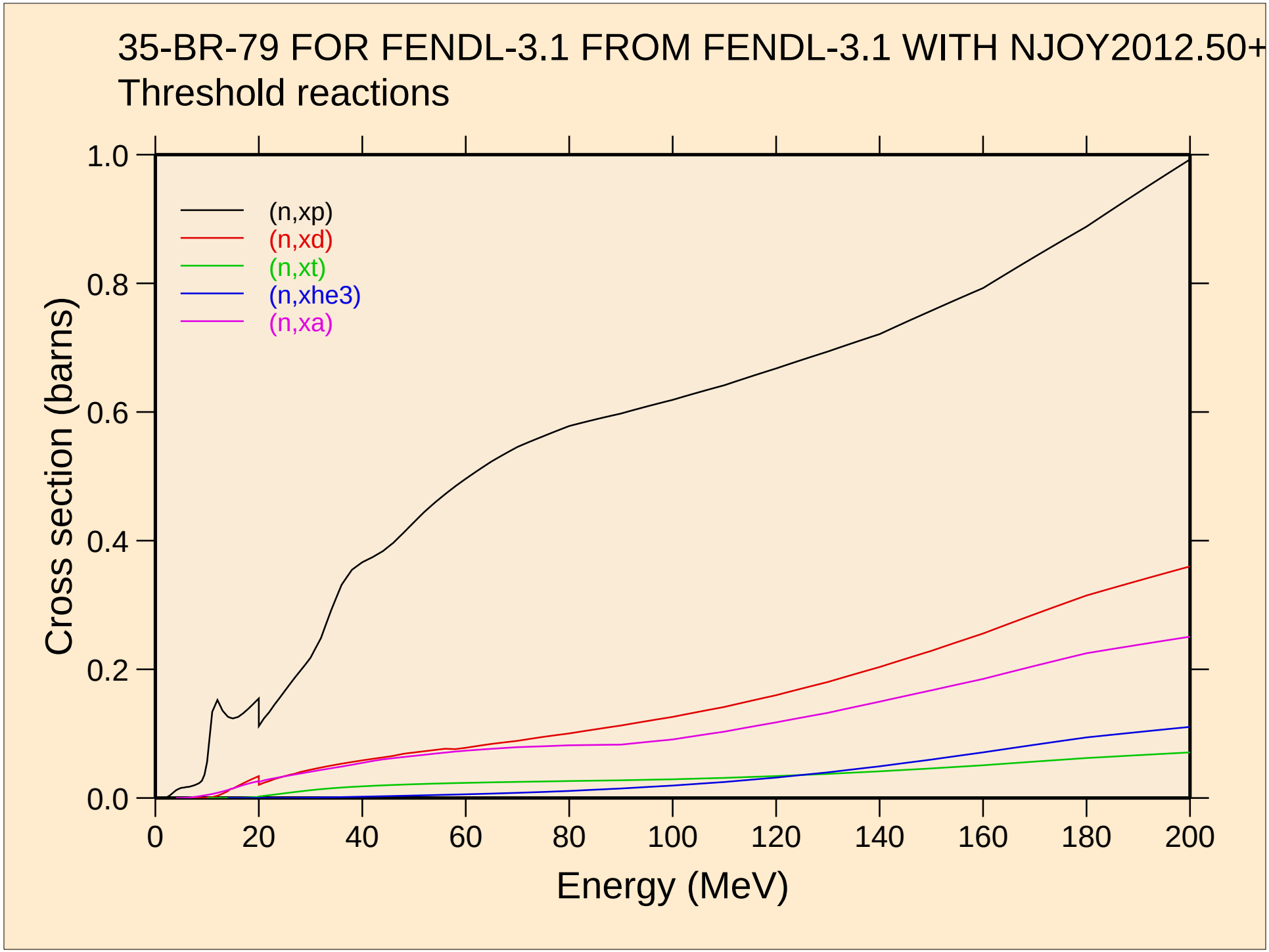

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Inelastic levels
Cross section (barns)
*10-3
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*31)
(n,n*32)
(n,n*33)
(n,n*34)
(n,n*35)

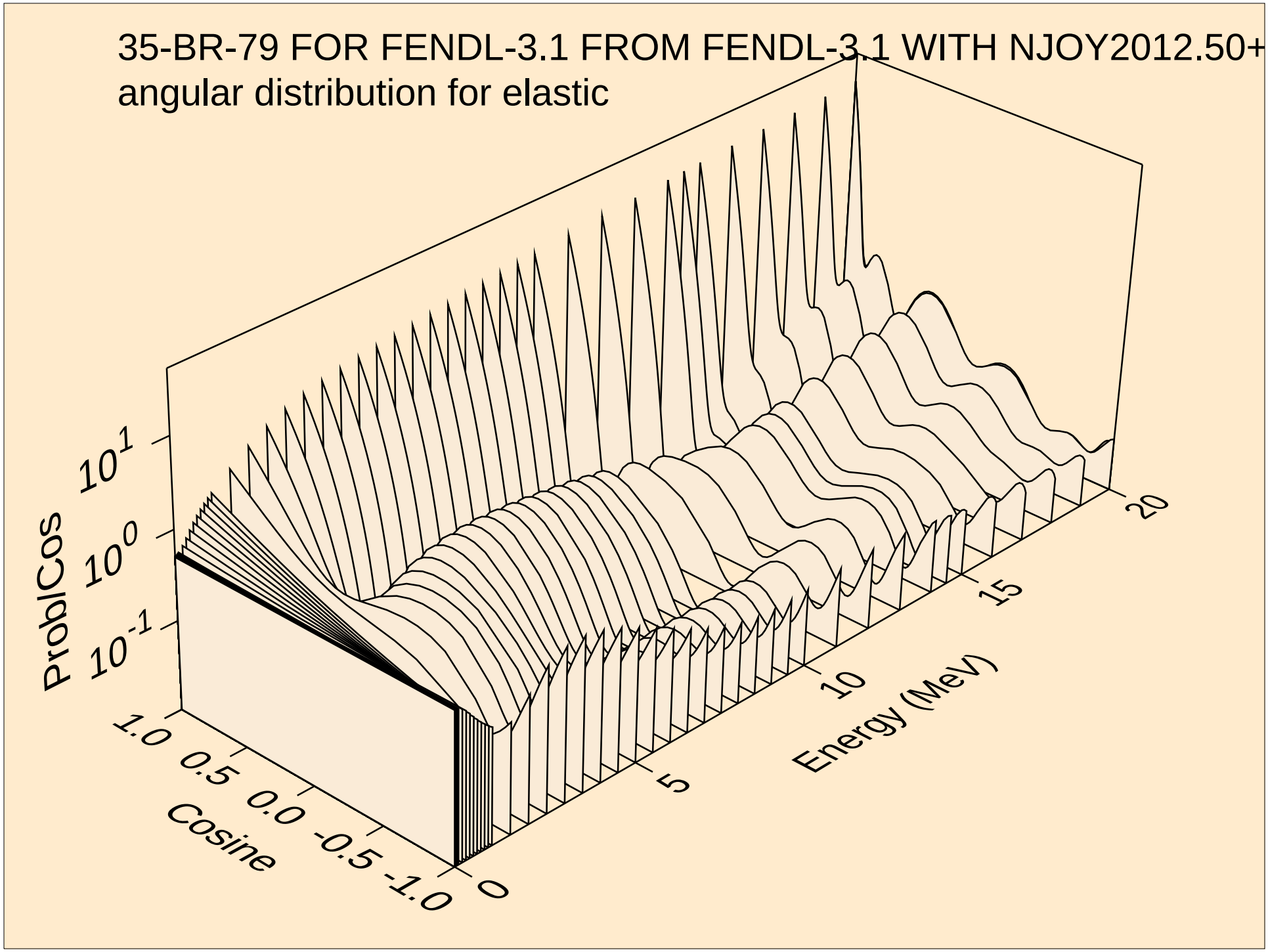

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Inelastic levels
Cross section (barns)
*10-3
Energy (MeV)
(n,n*36)
(n,n*37)
(n,n*38)
(n,n*39)
(n,n*40)
0
5
10
15
20
25
30
35
40
0
2
4
6
8
10
12
14
16
18
20

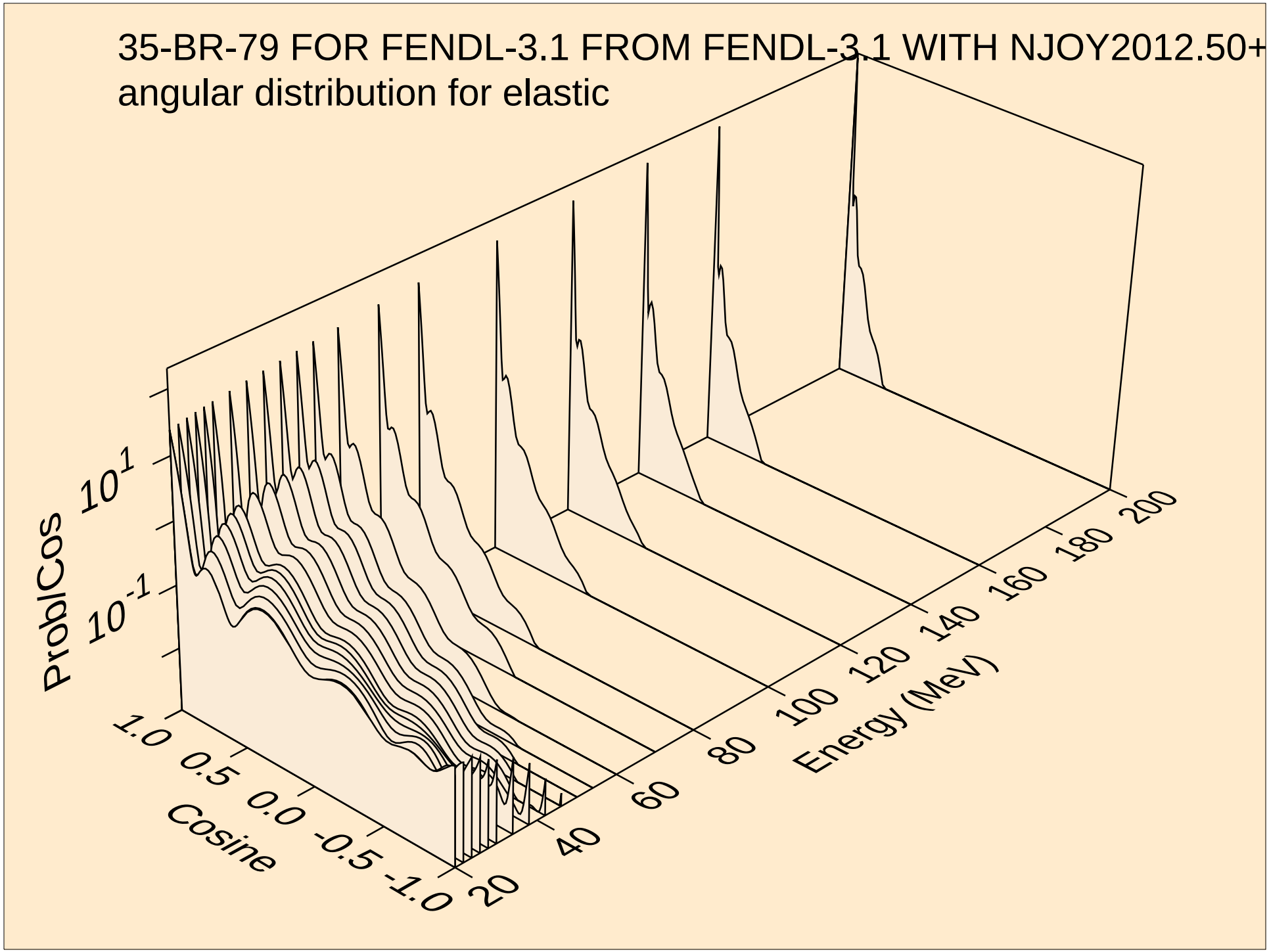

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Threshold reactions
(n,x)
(n,2n)
(n,3n)
(n,n*)a
(n,n*)p
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
20
40
60
80
100
120
140
160
180
200

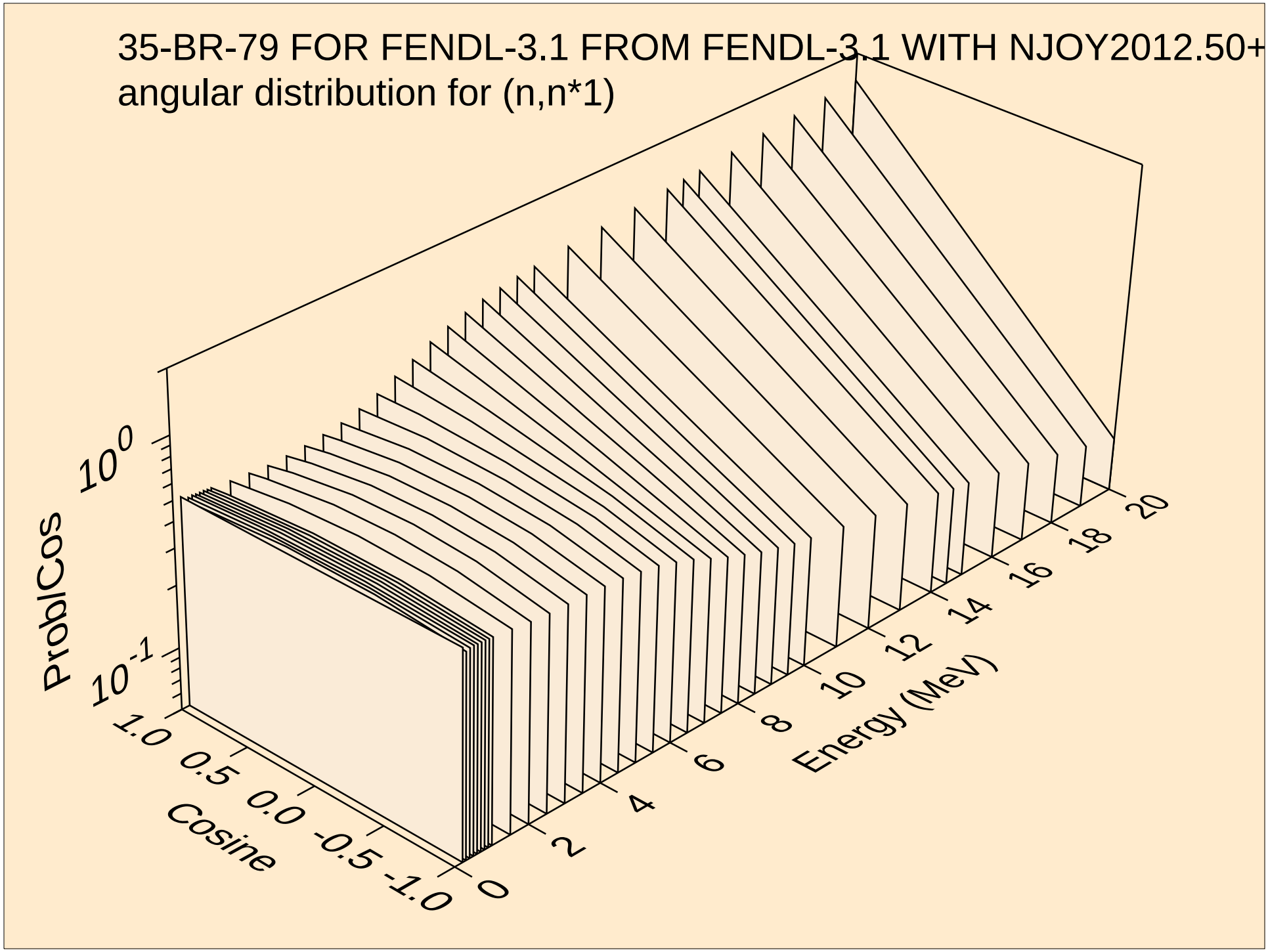

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Threshold reactions
(n,n*)d
(n,n*c)
(n,p)
(n,d)
(n,t)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
0
2
4
6
8
10
12
14
16
18
20

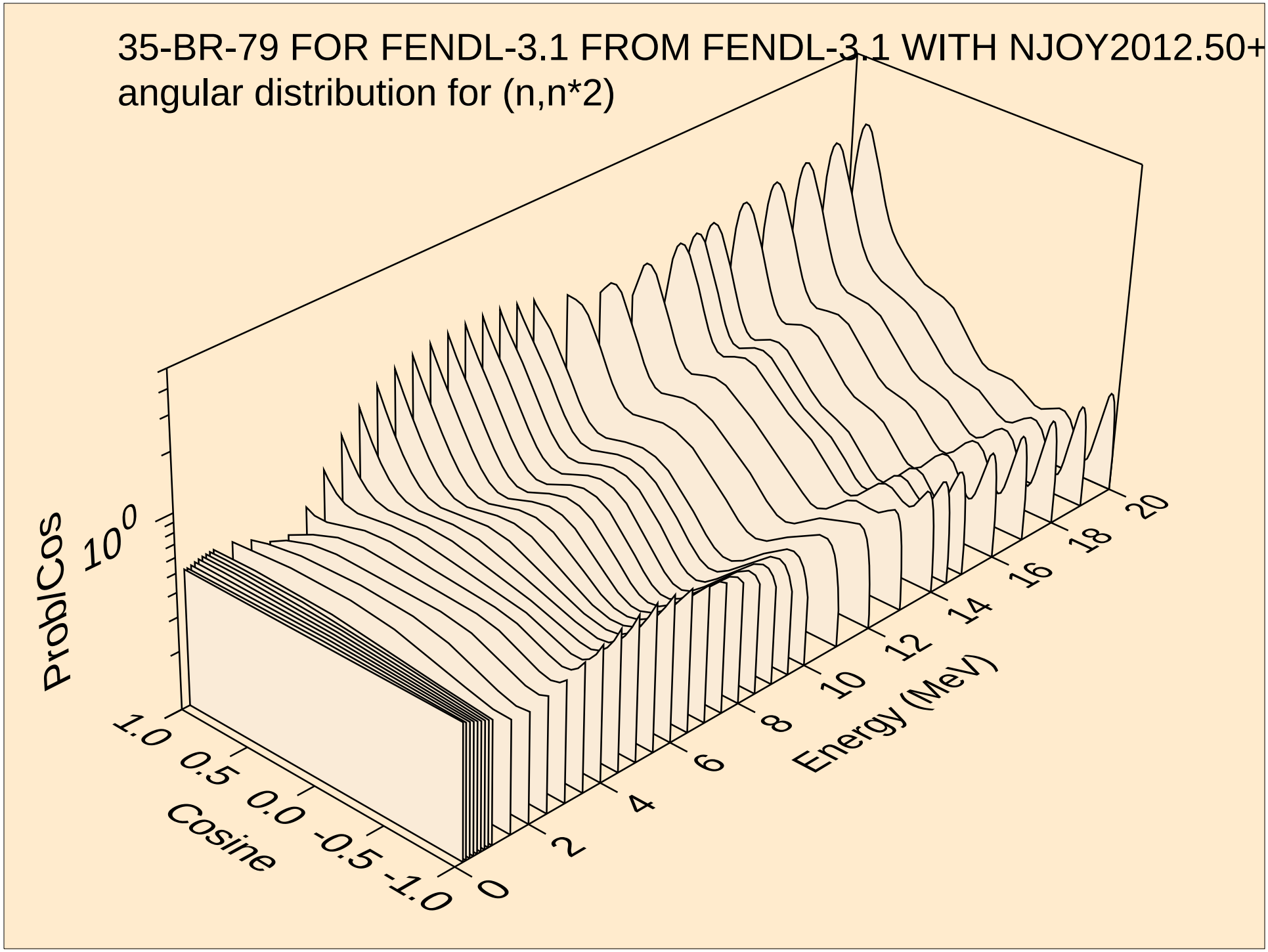

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Threshold reactions
*10-3
(n,he3)
(n,a)
Cross section (barns)
Energy (MeV)
0
2
4
6
8
10
12
14
4
6
8
10
12
14
16
18
20

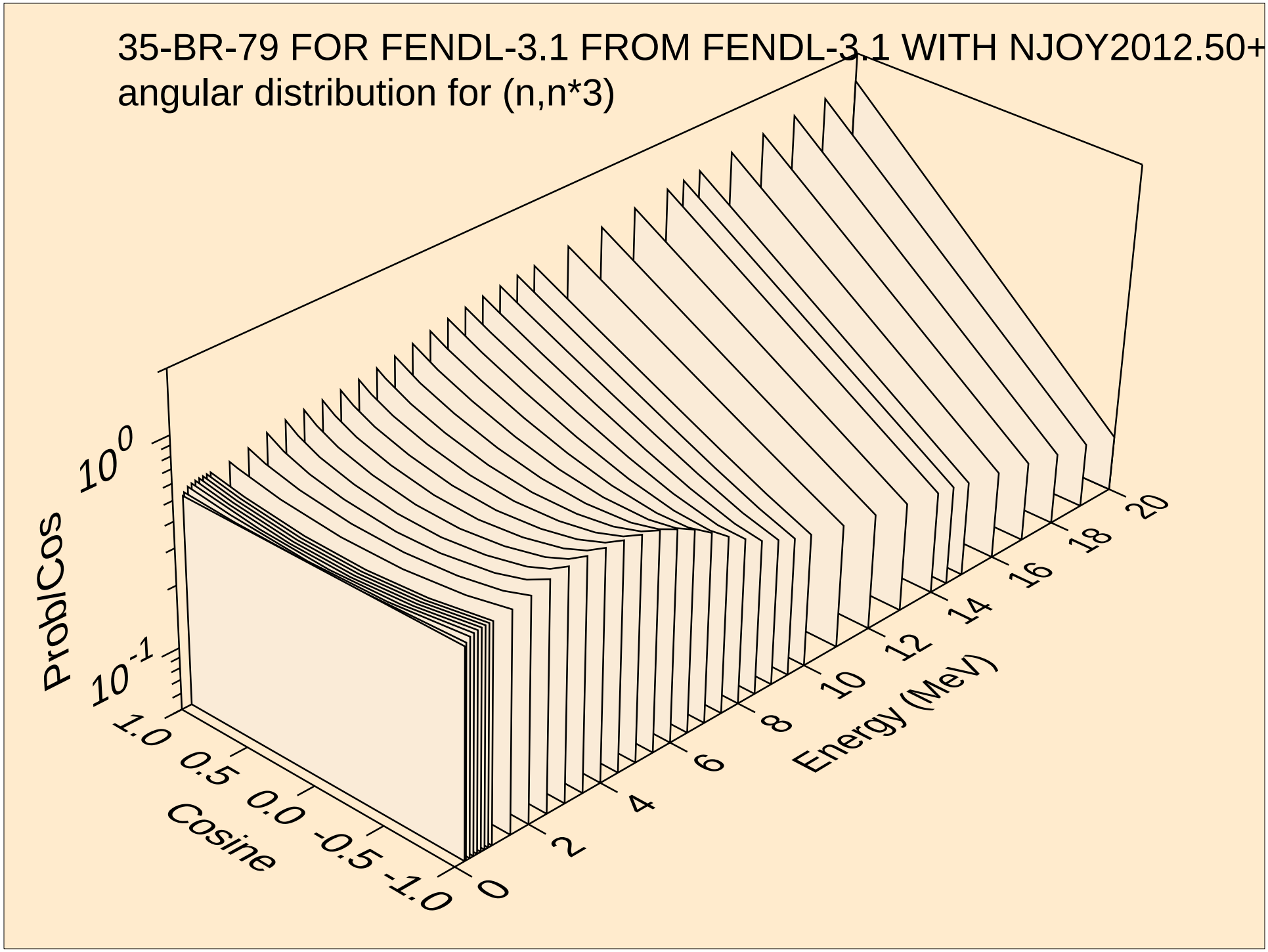

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Threshold reactions
(n,xp)
(n,xd)
(n,xt)
(n,xhe3)
(n,xa)
Cross section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

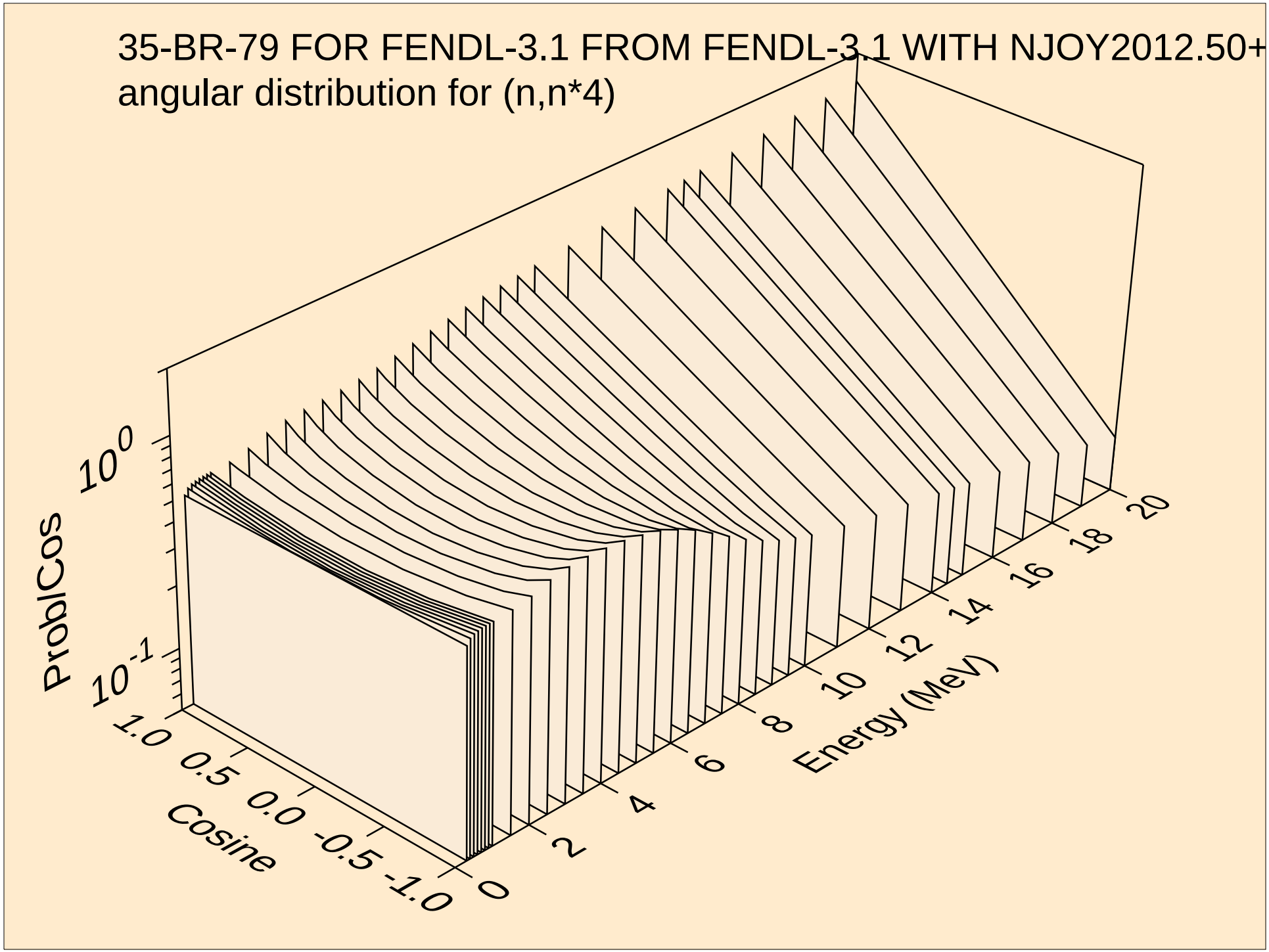

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for elastic
ProbICos
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

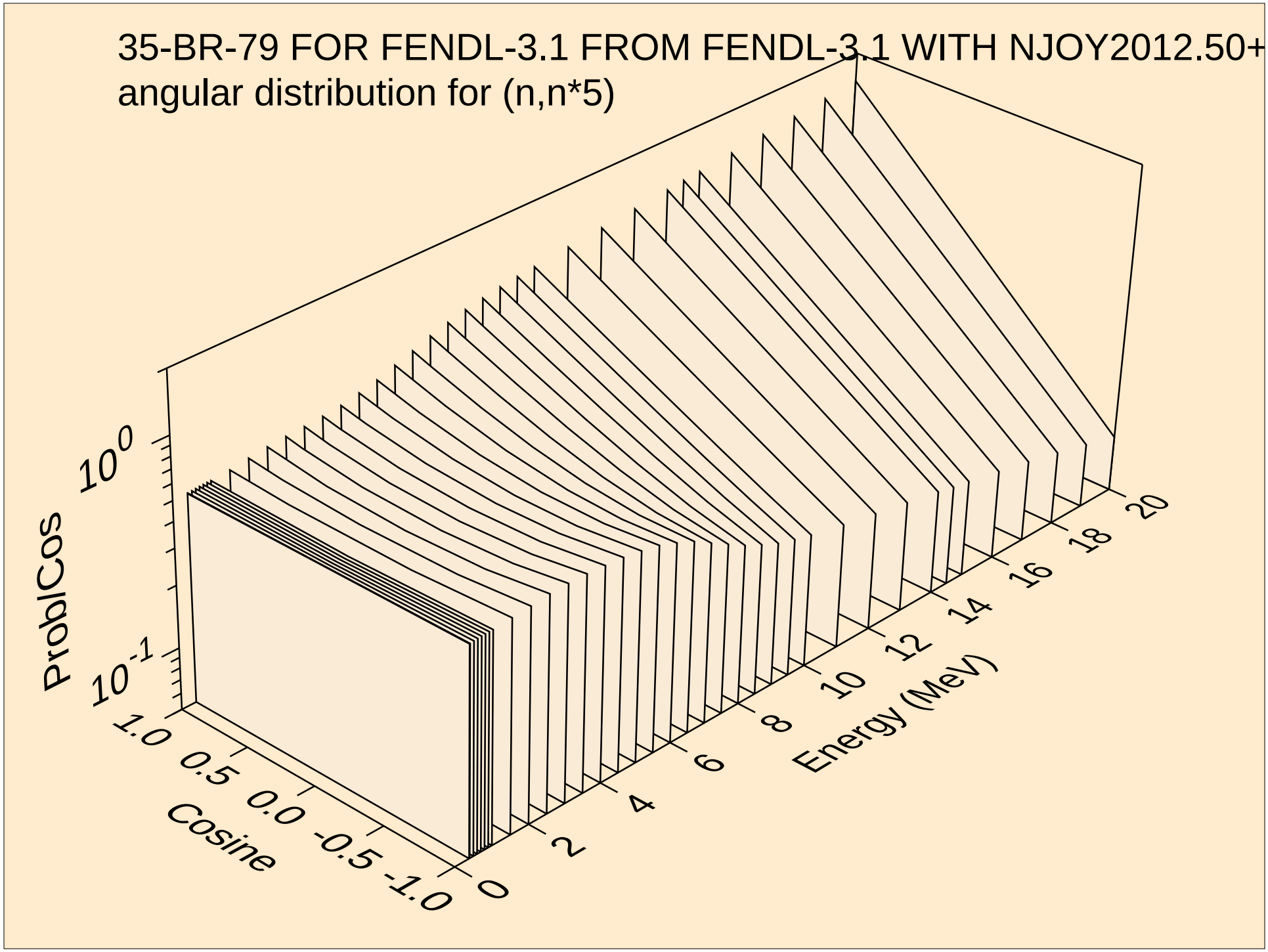

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

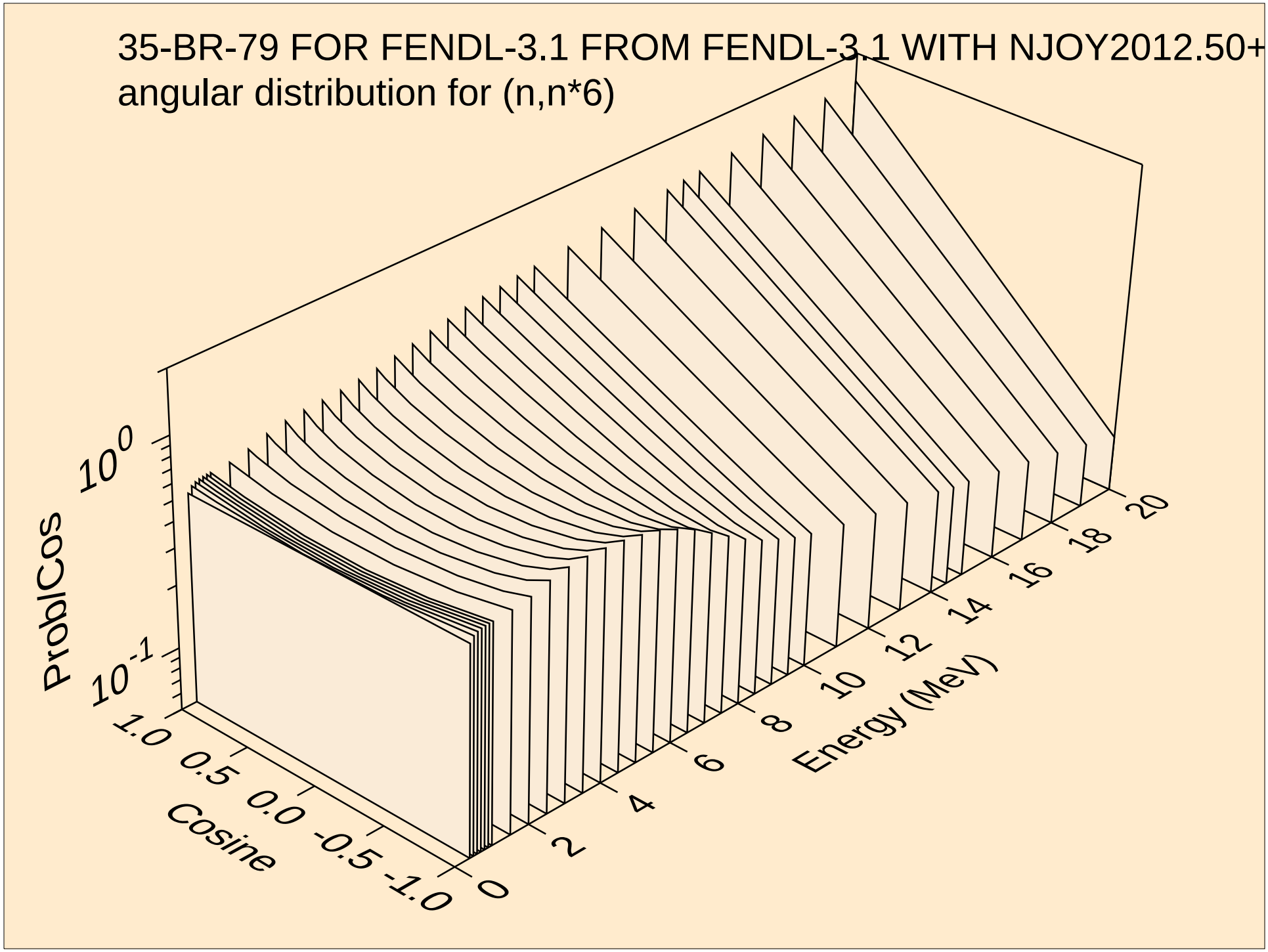

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*1)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

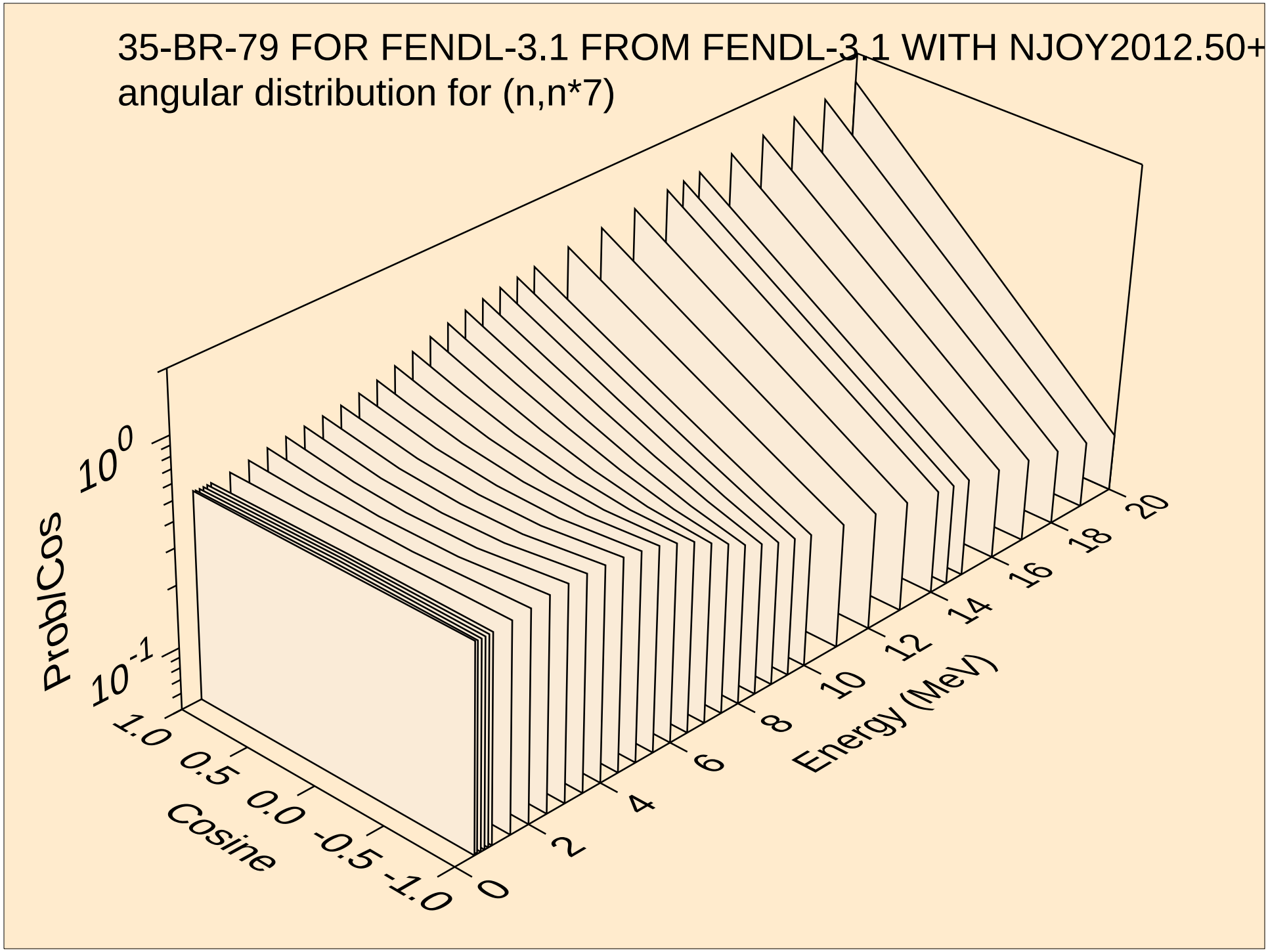

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*2)
ProblCos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
20

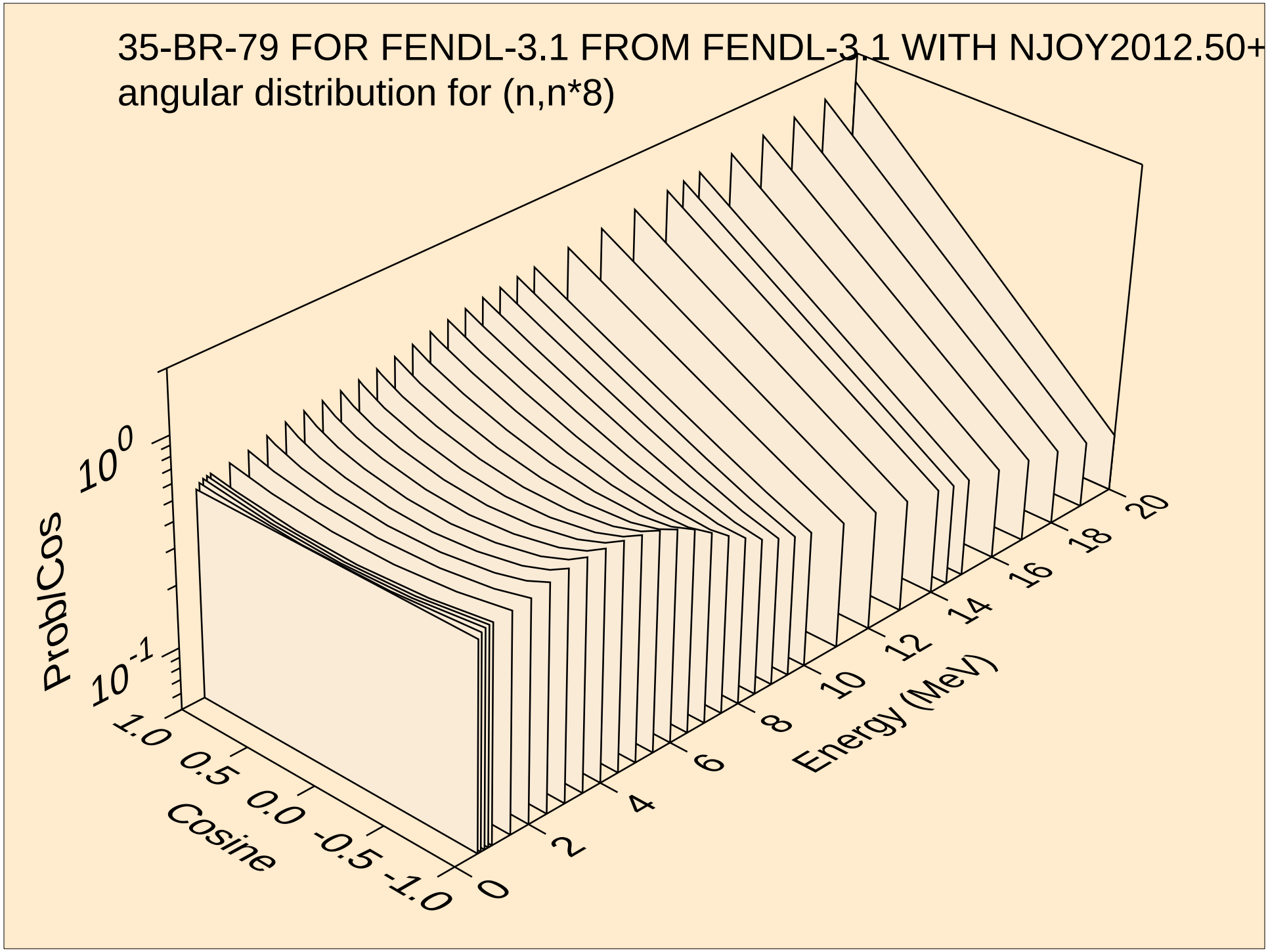

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*3)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

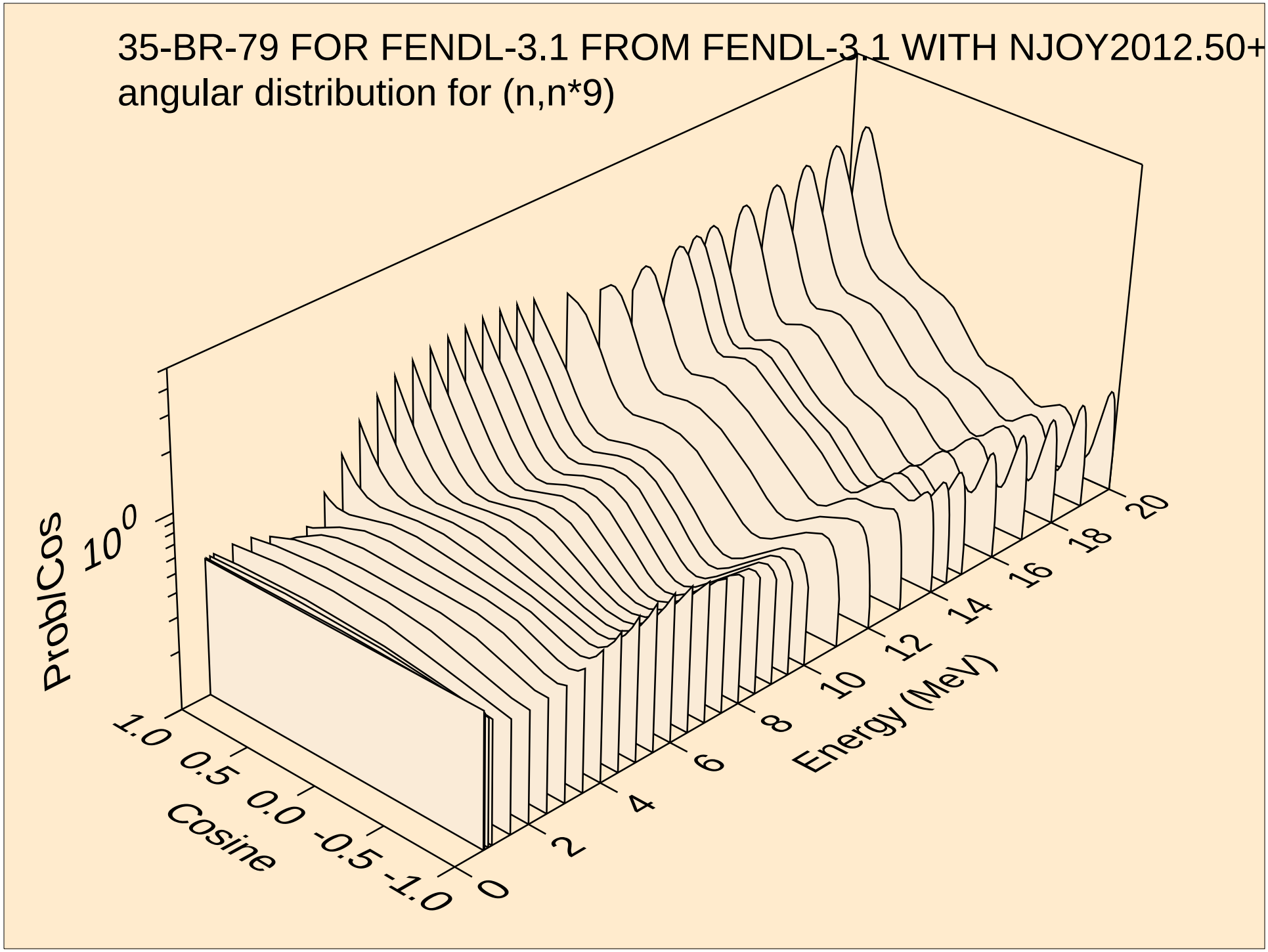

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*4)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

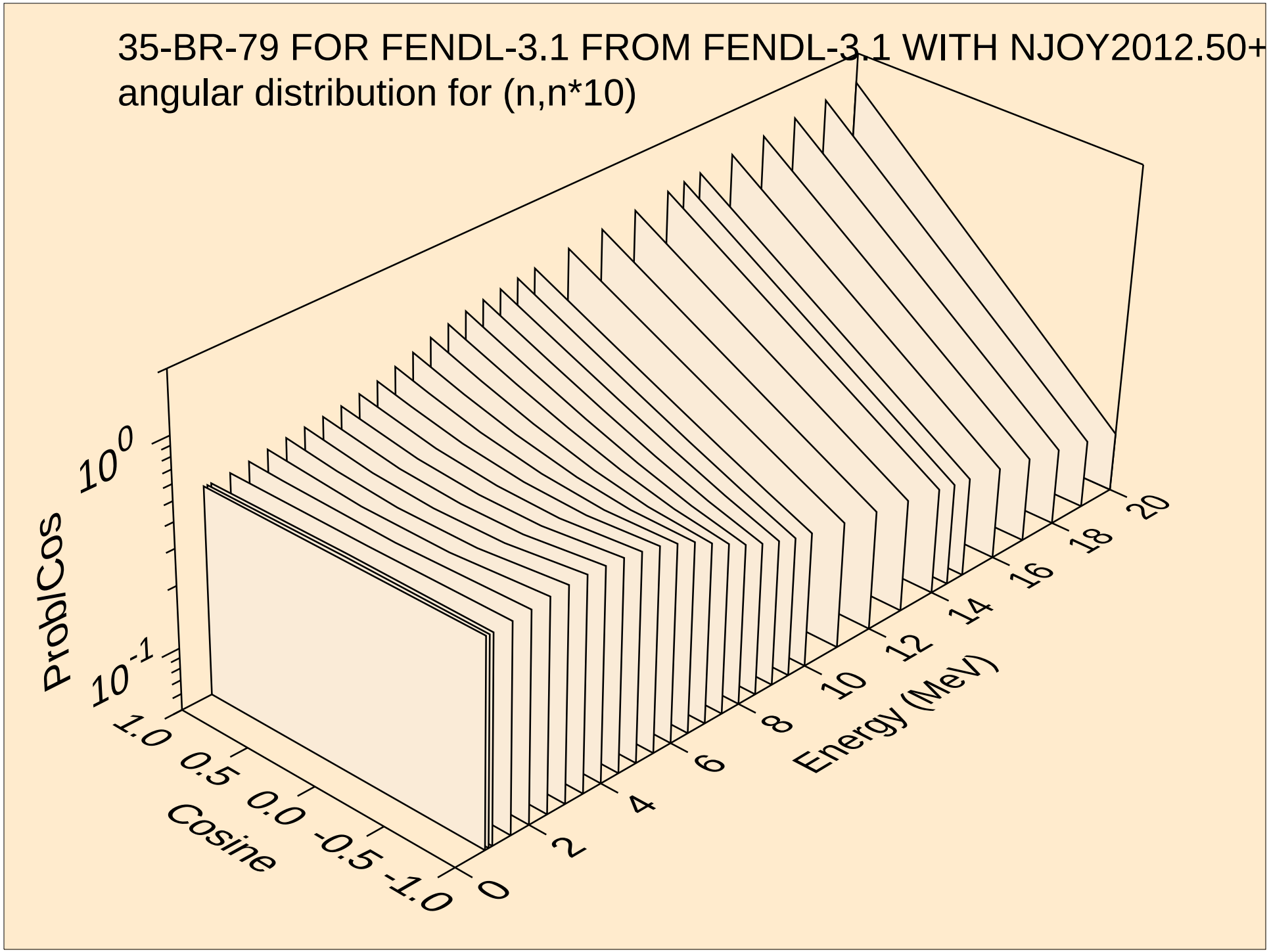

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*5)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

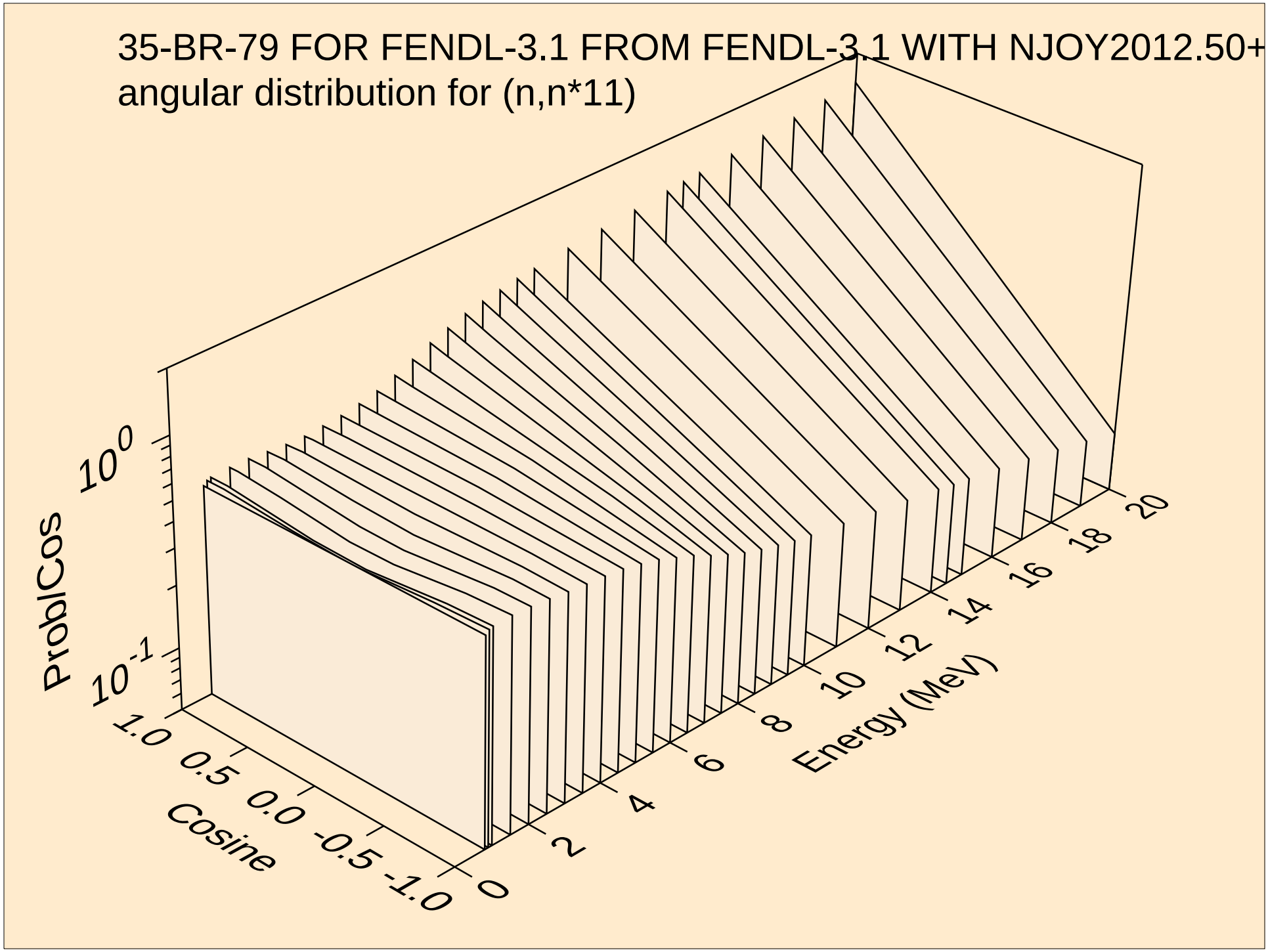

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*6)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

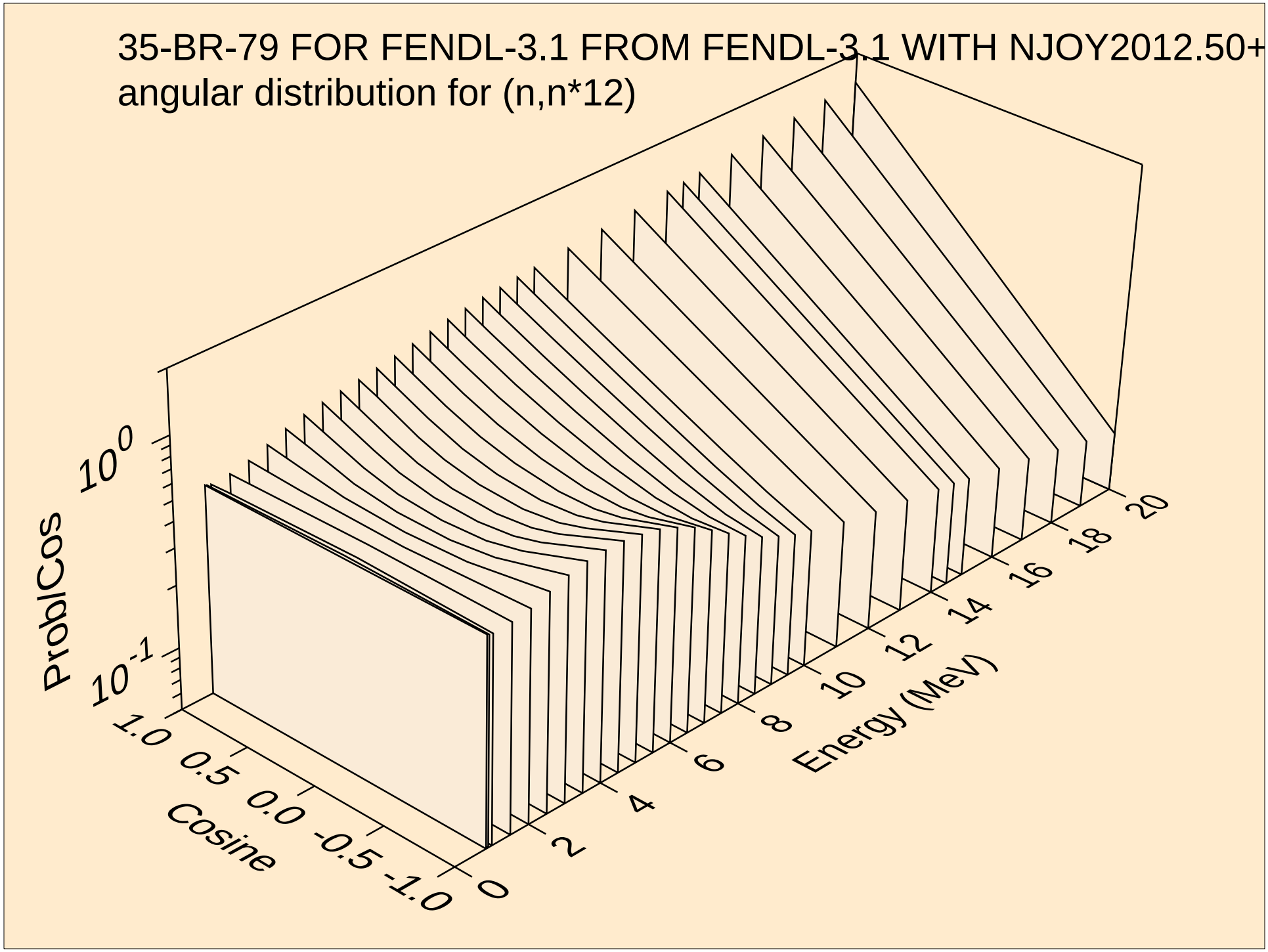

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*7)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

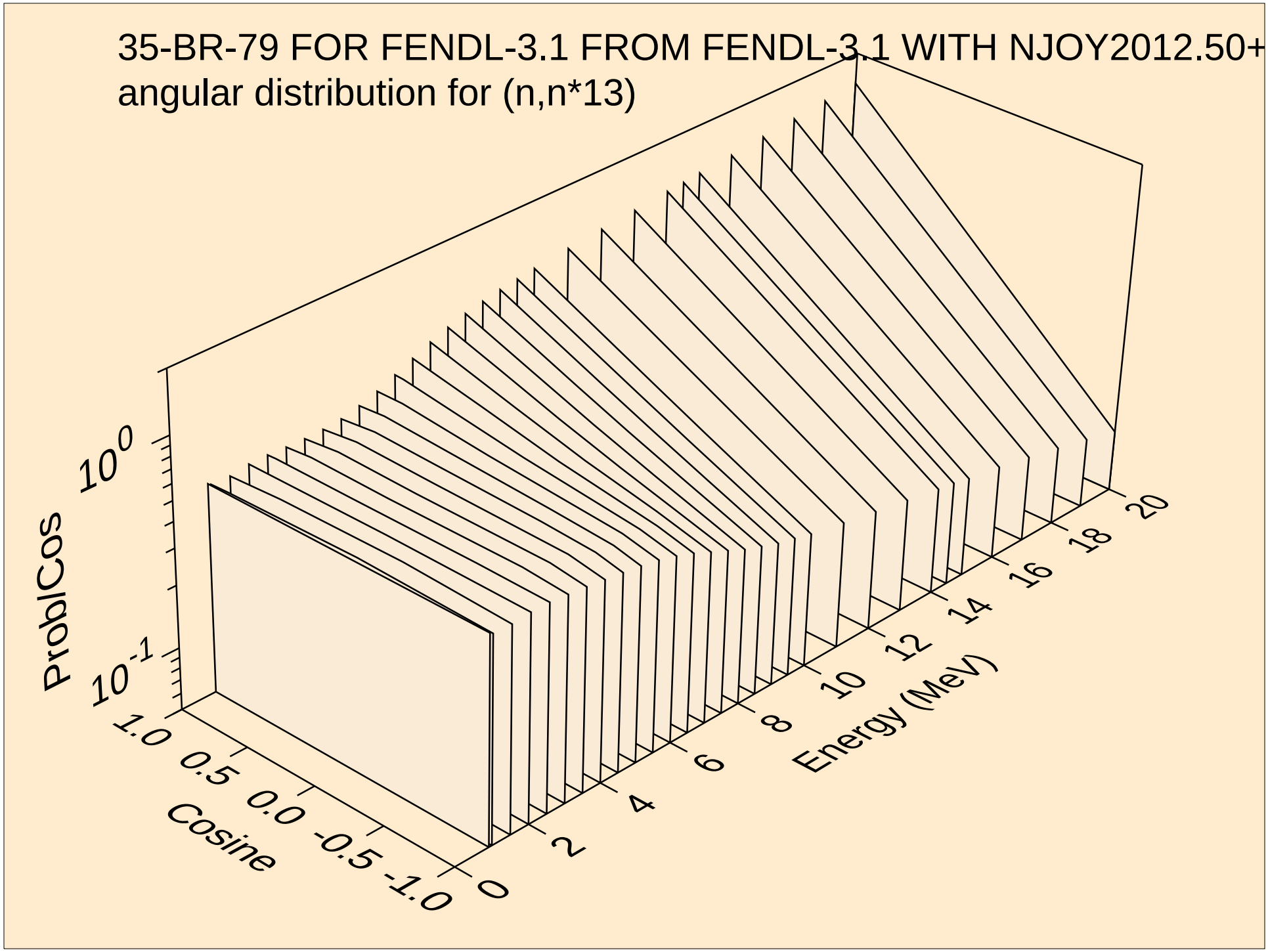

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*8)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

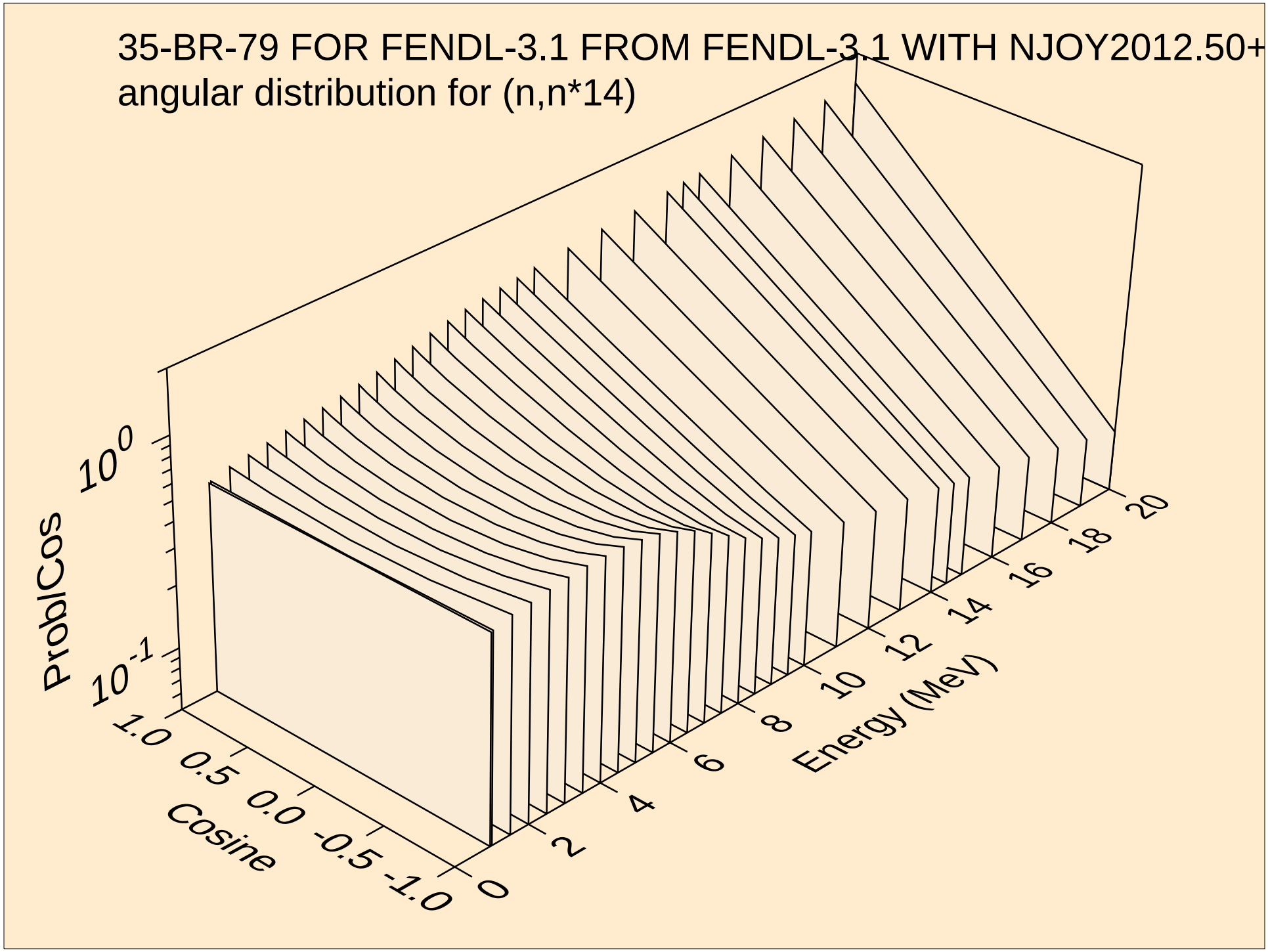

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*9)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

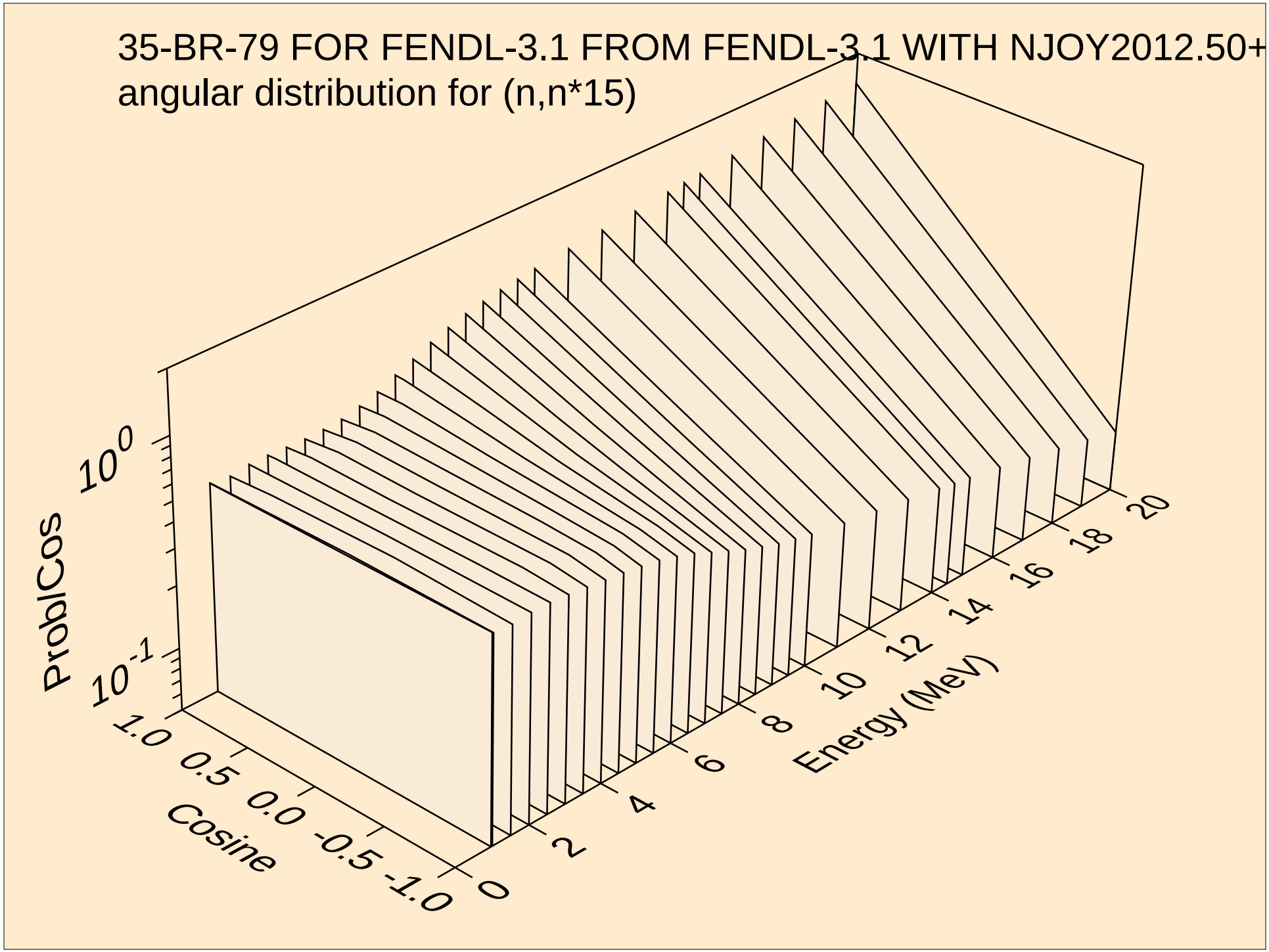

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*10)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

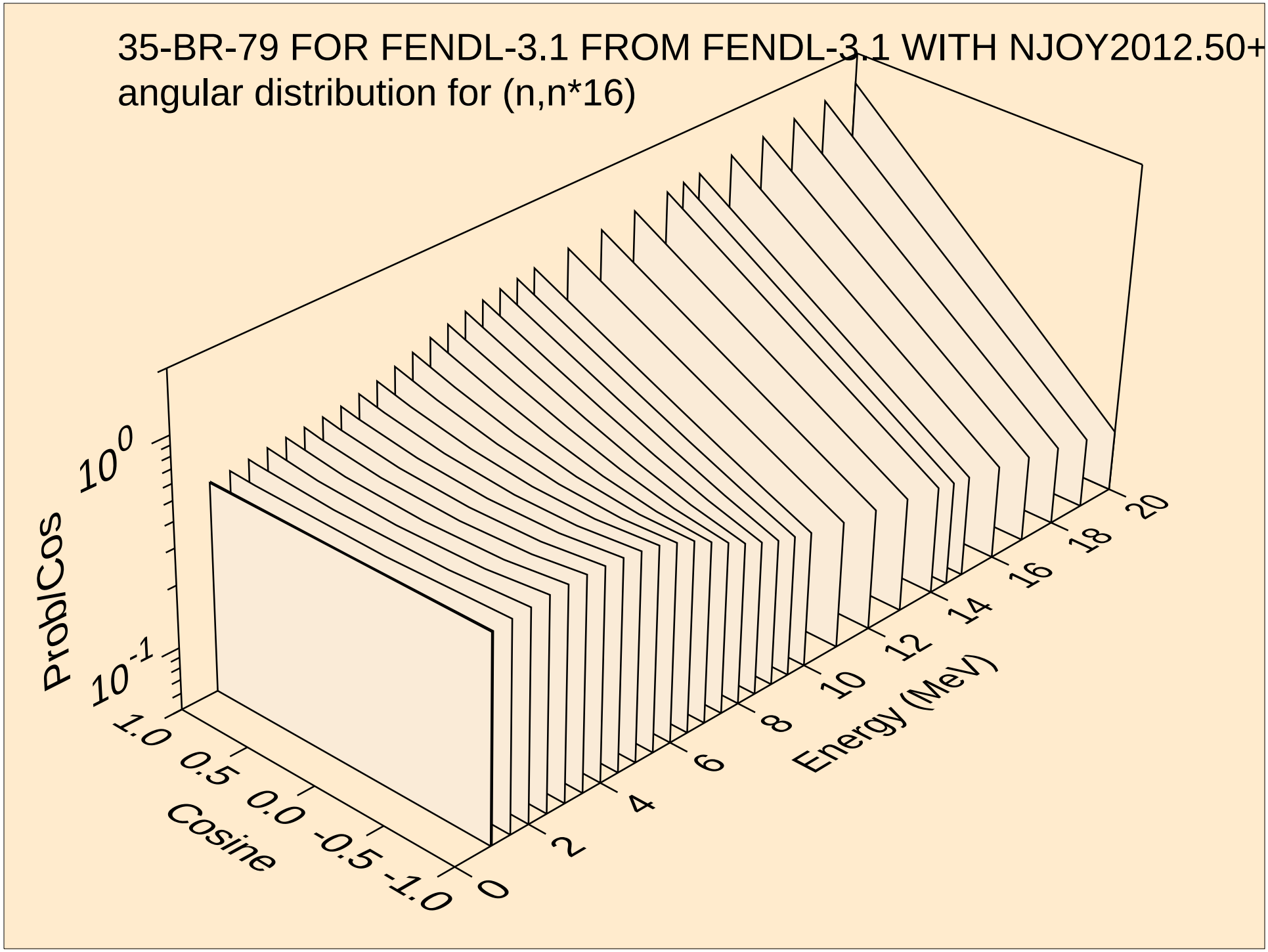

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*11)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

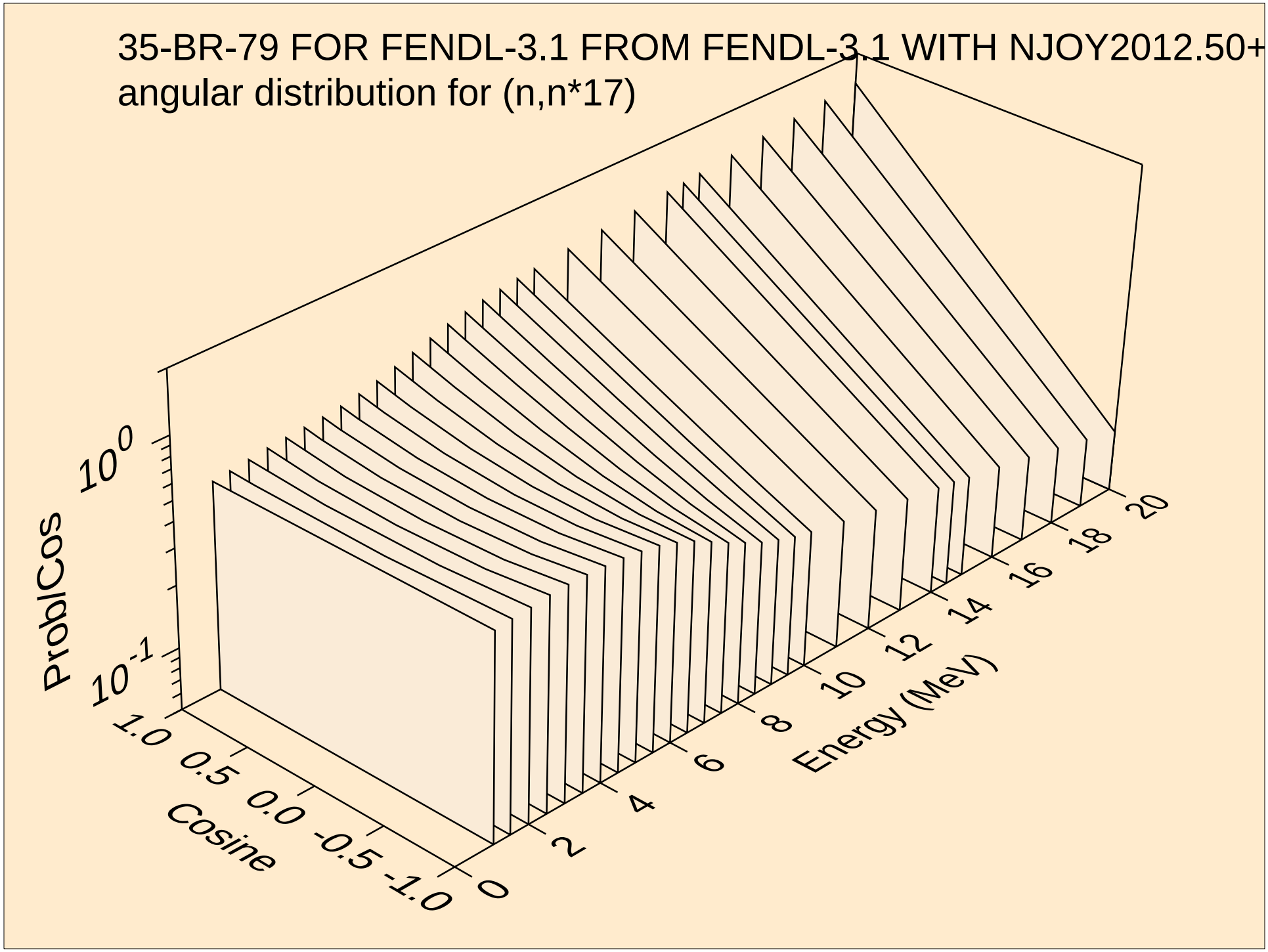

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*12)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

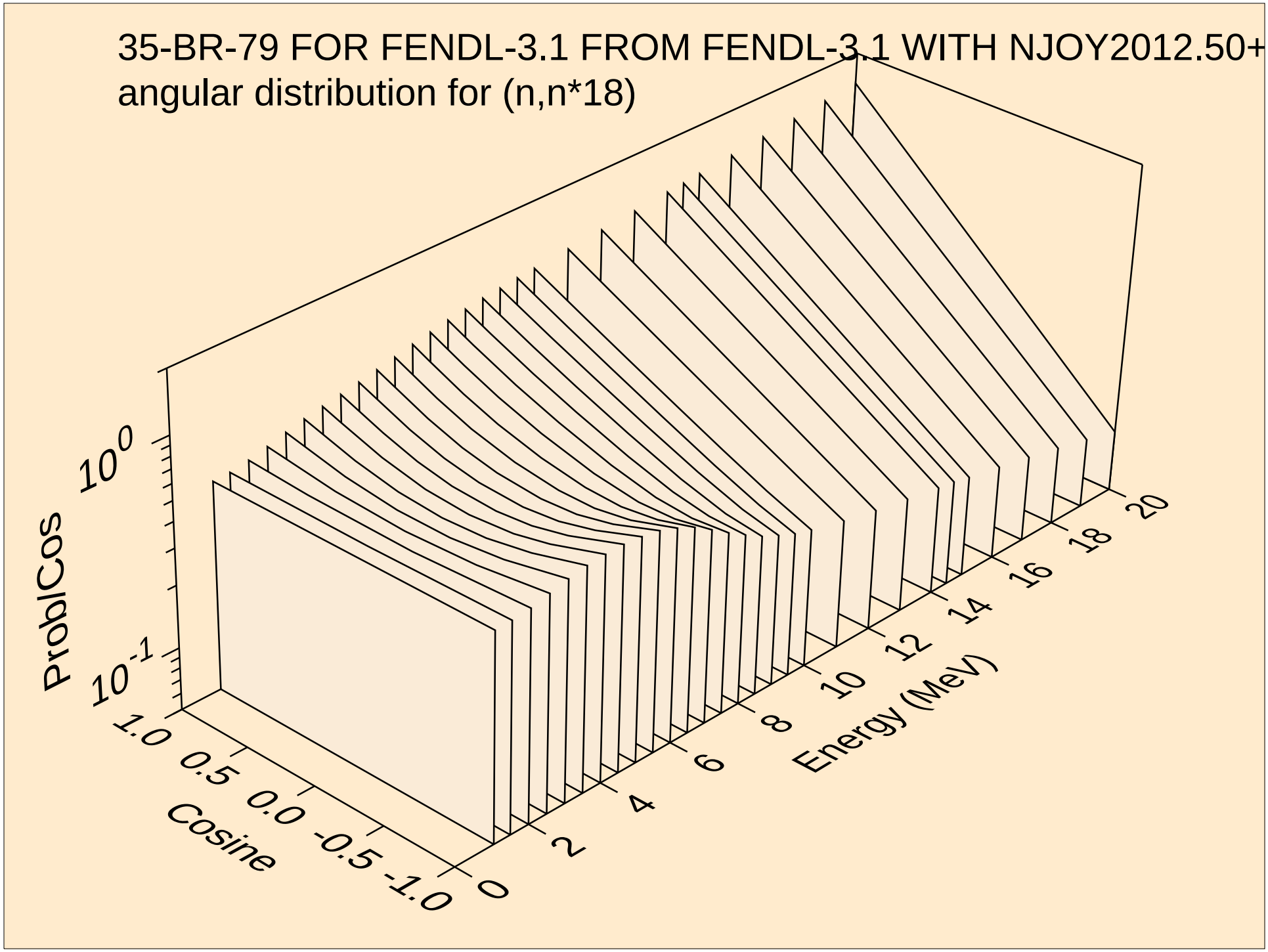

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*13)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

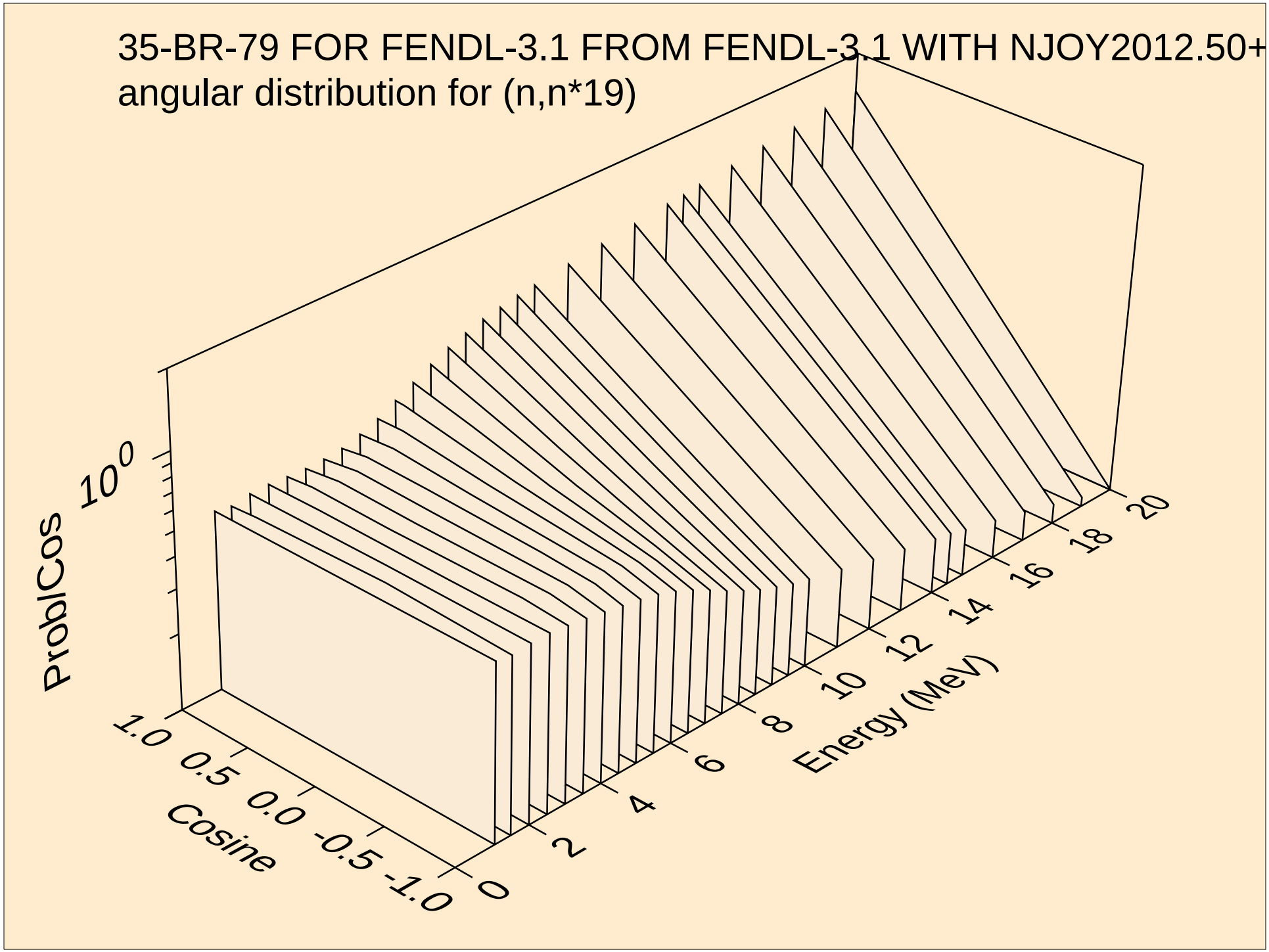

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*14)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

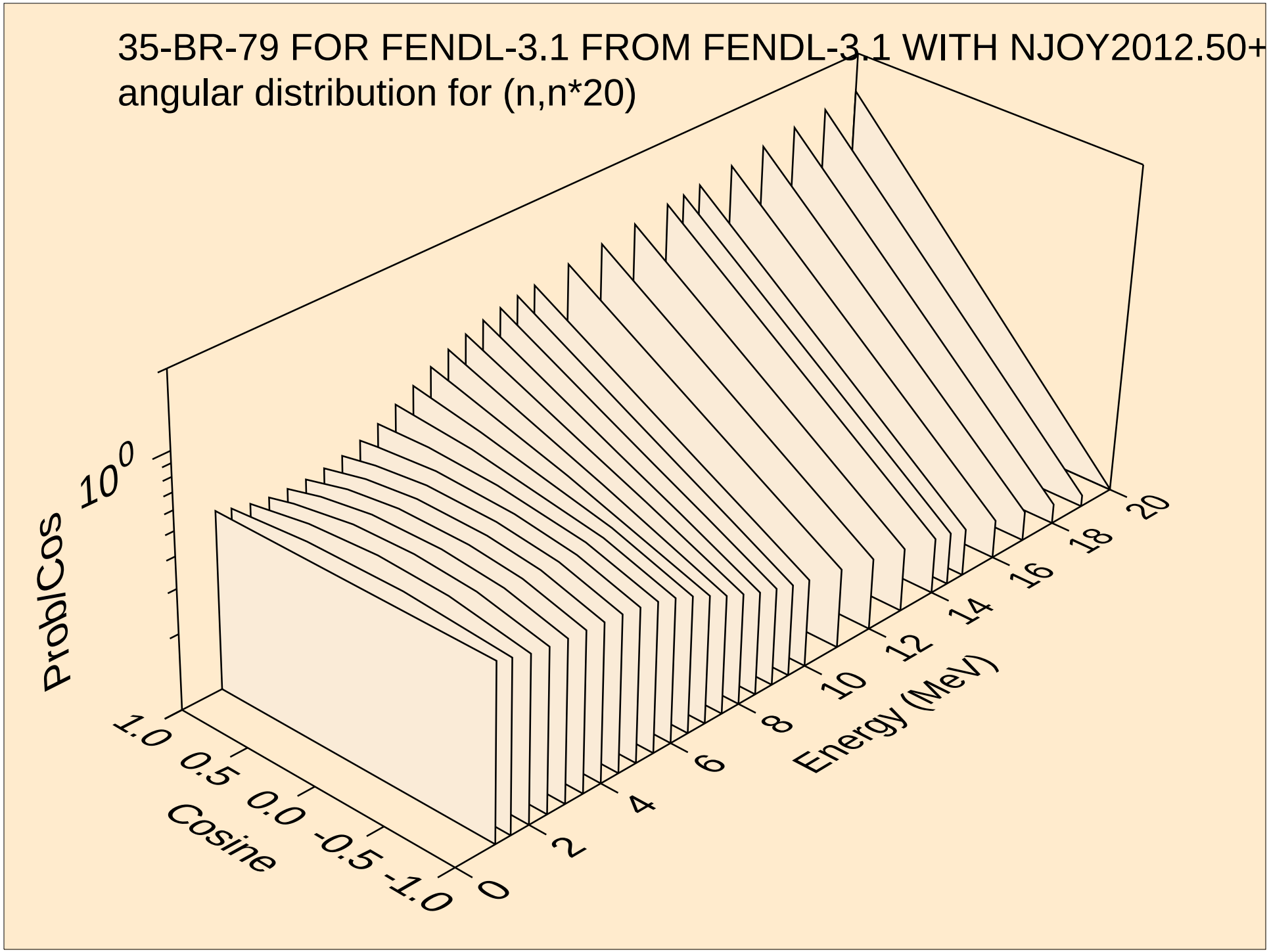

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*15)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

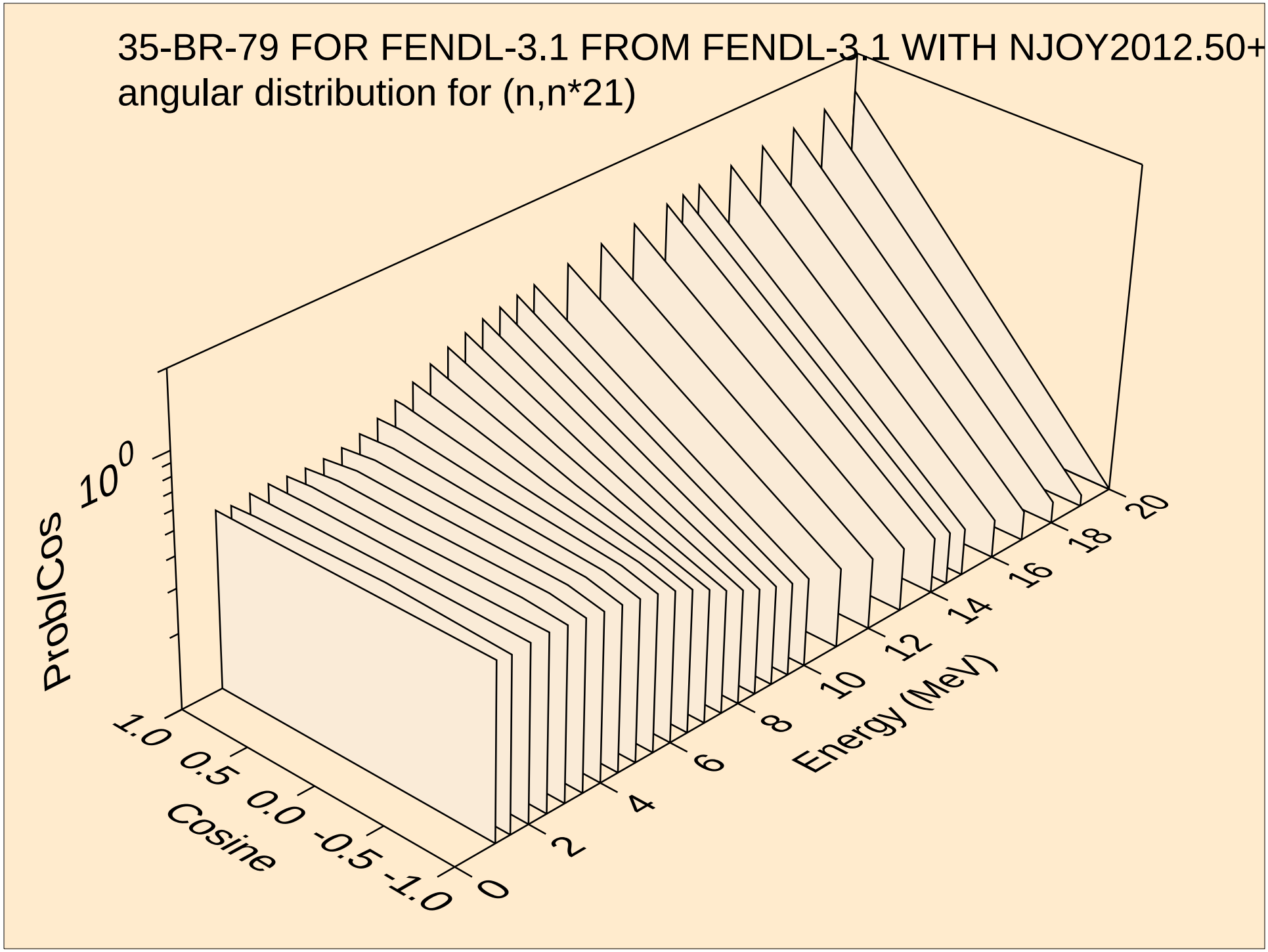

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*16)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

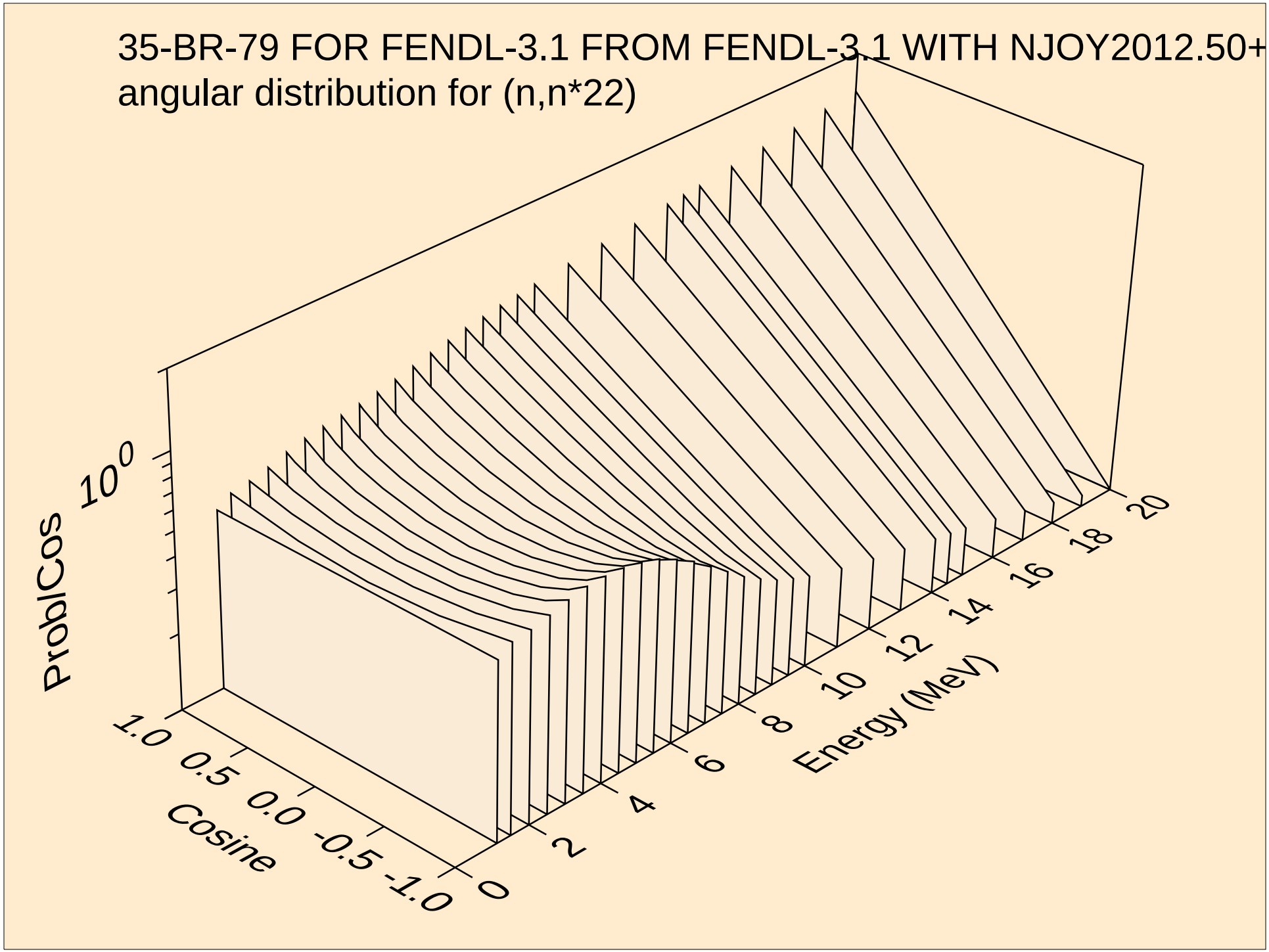

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*17)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

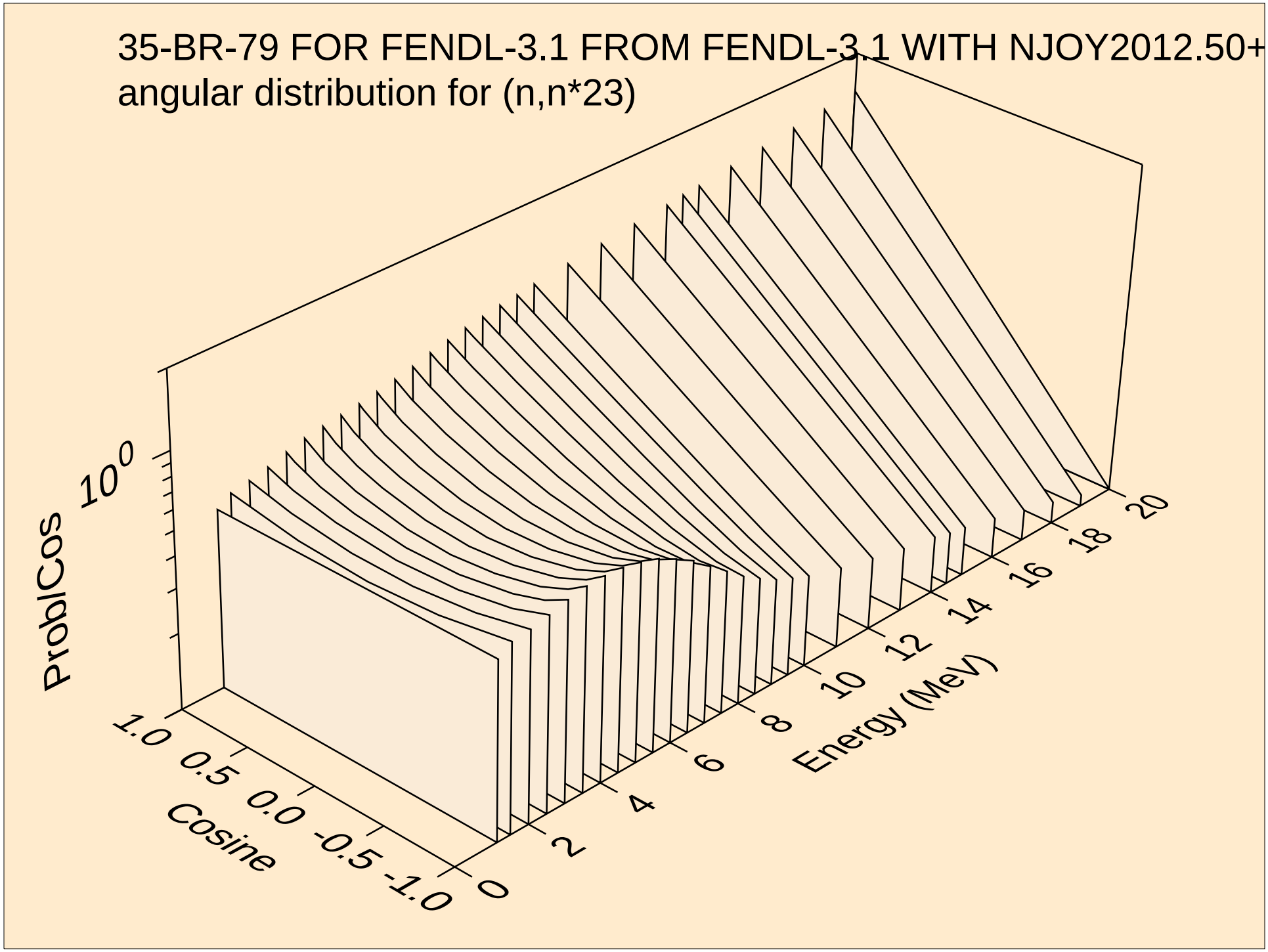

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*18)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

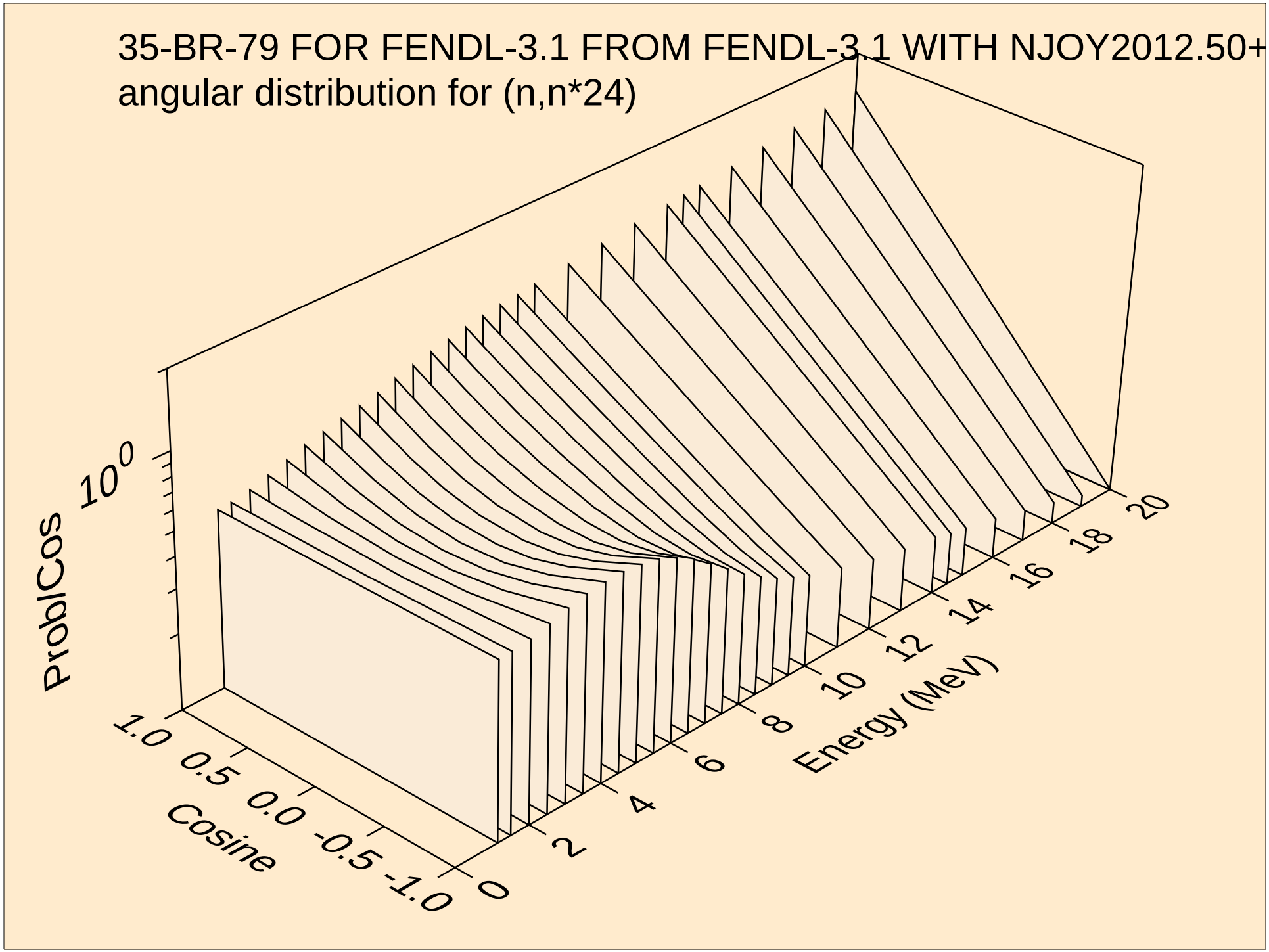

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*19)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

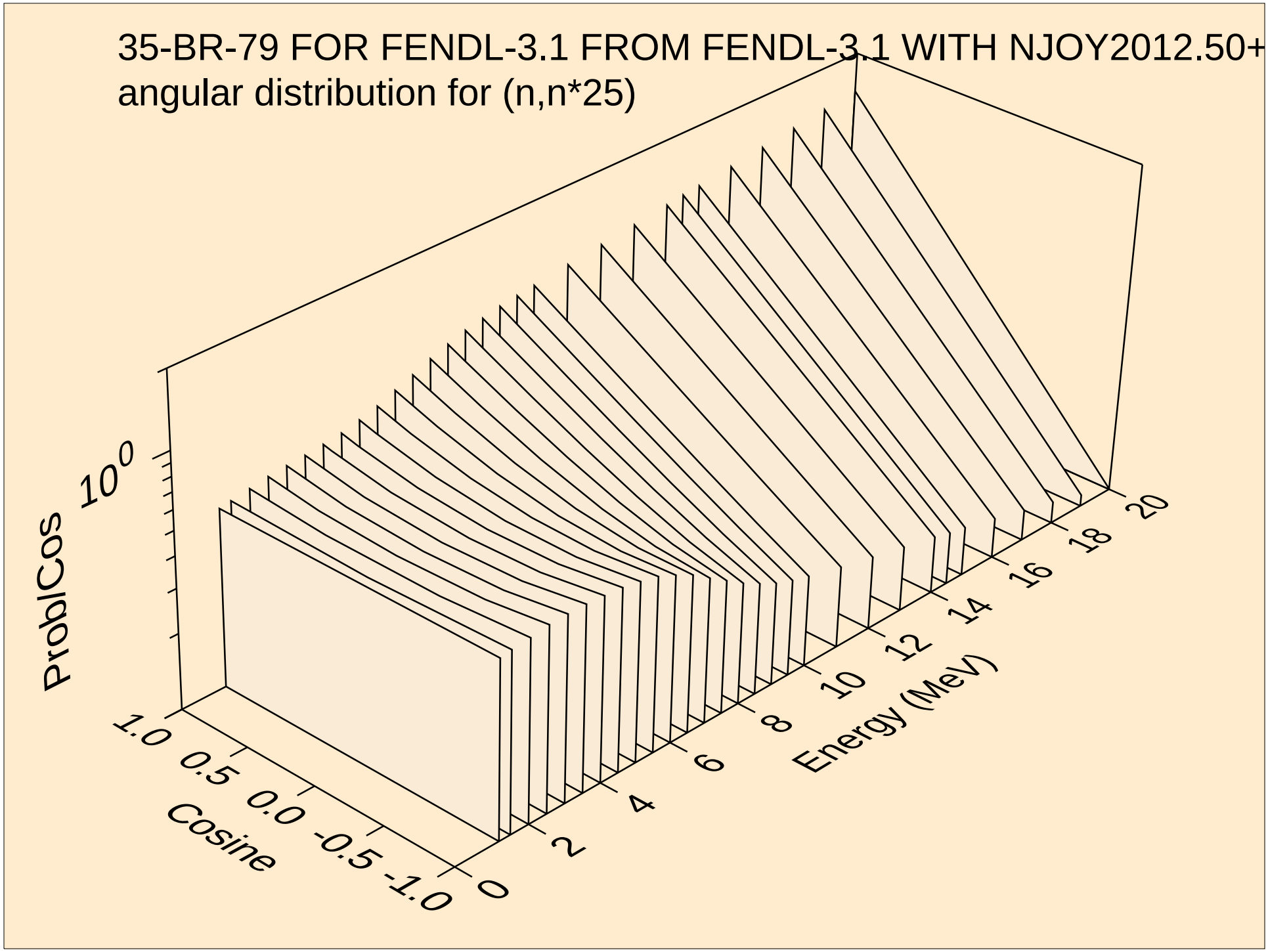

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*20)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

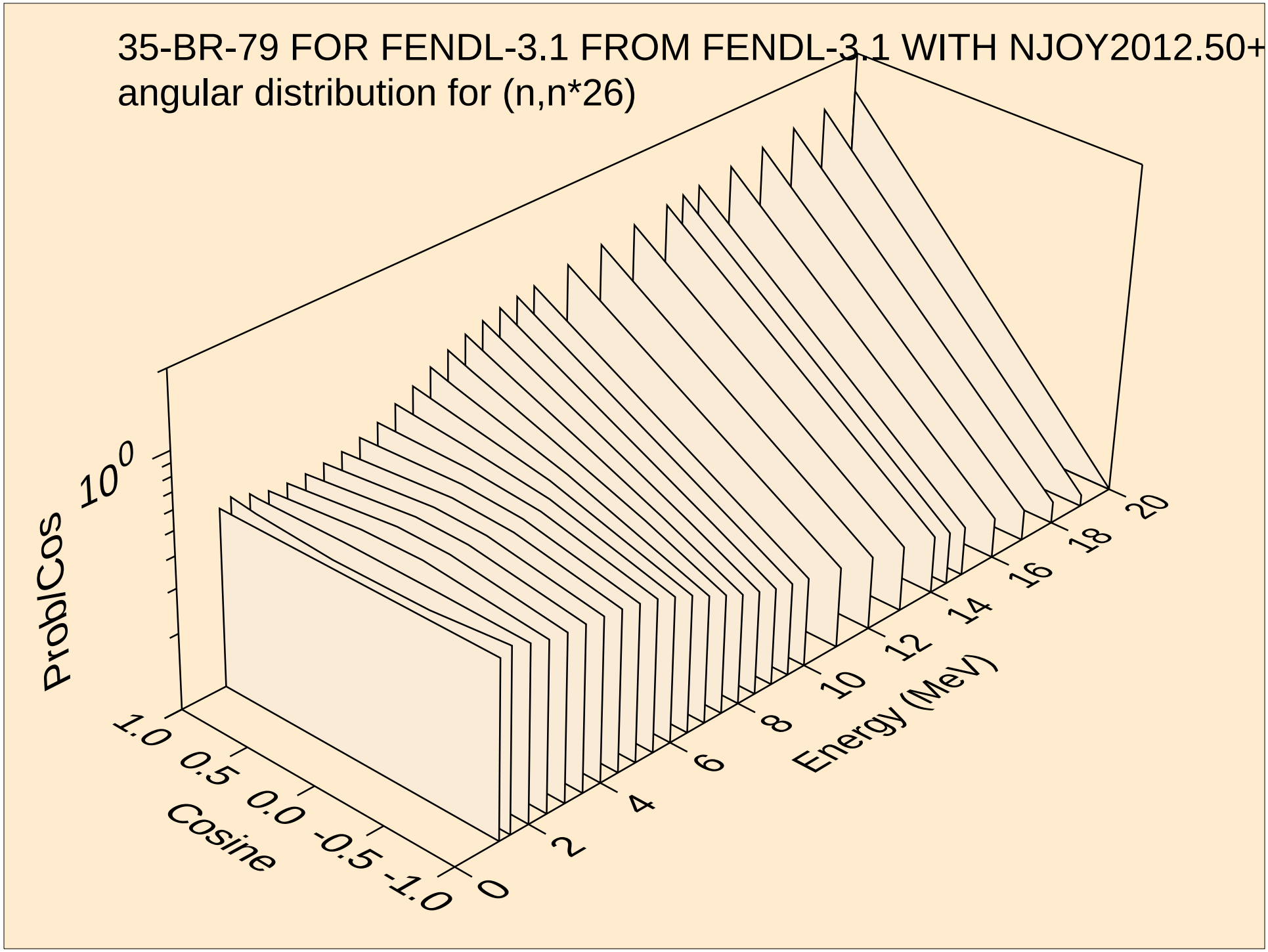

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*21)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

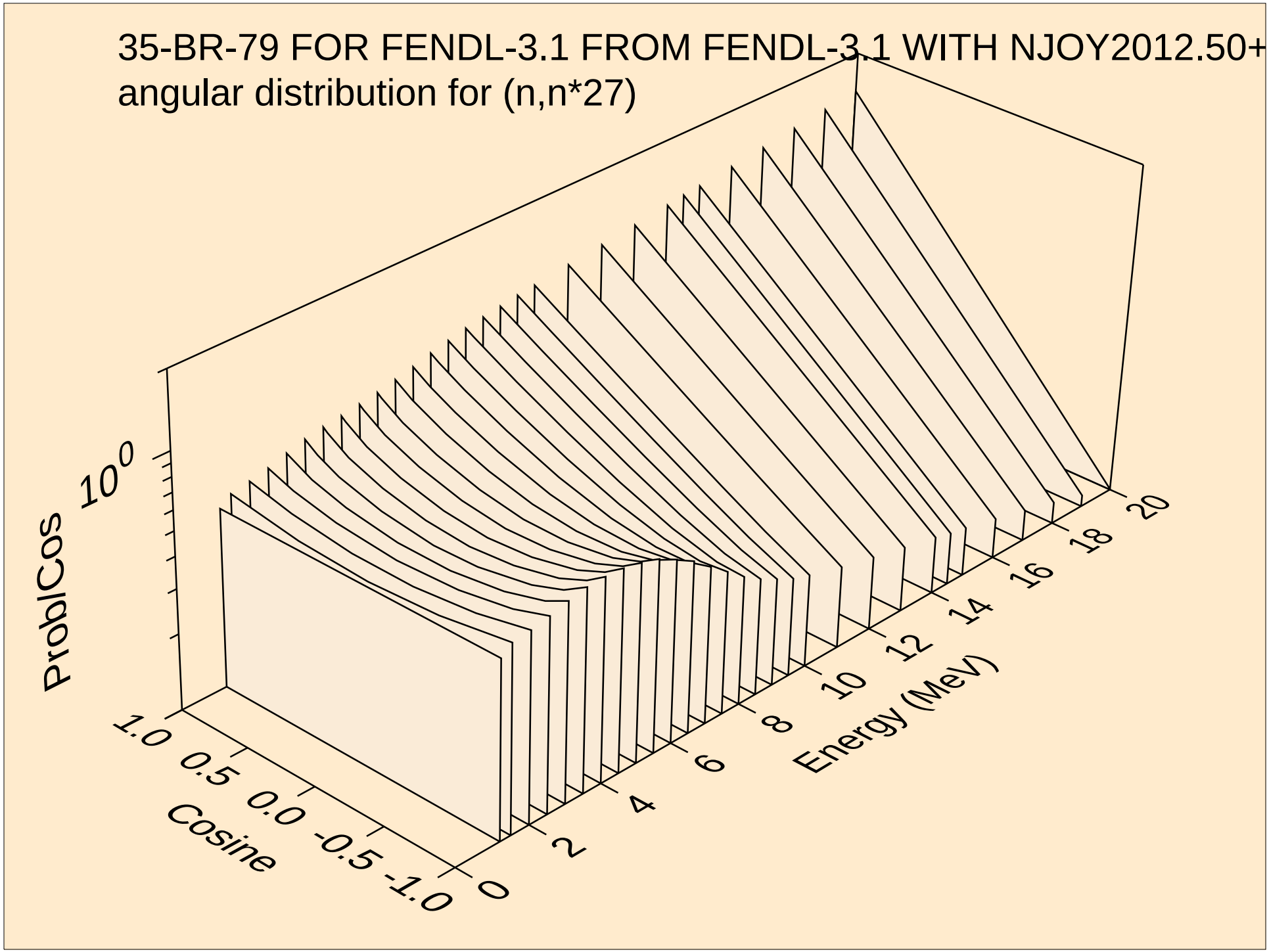

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*22)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

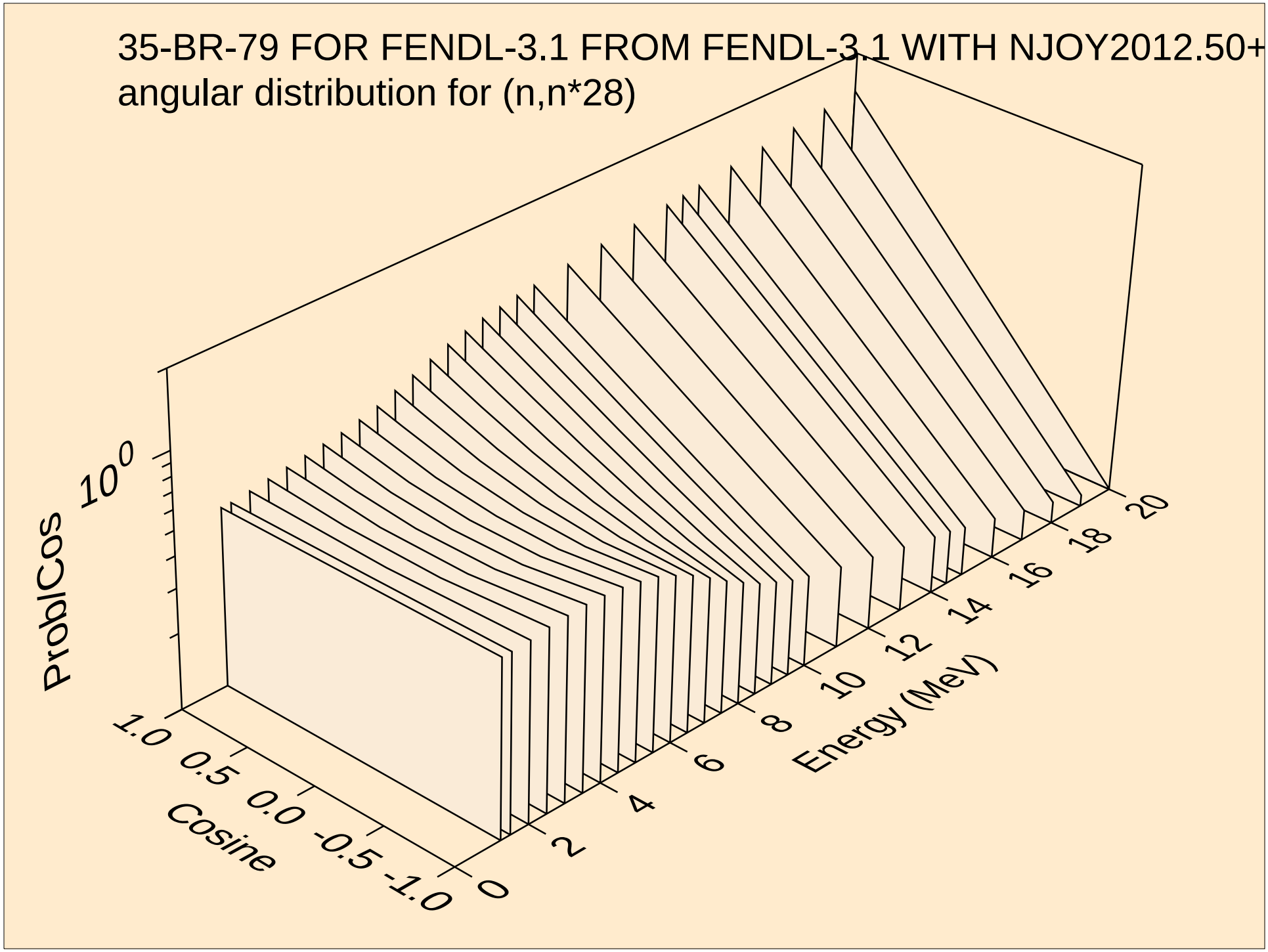

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*23)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

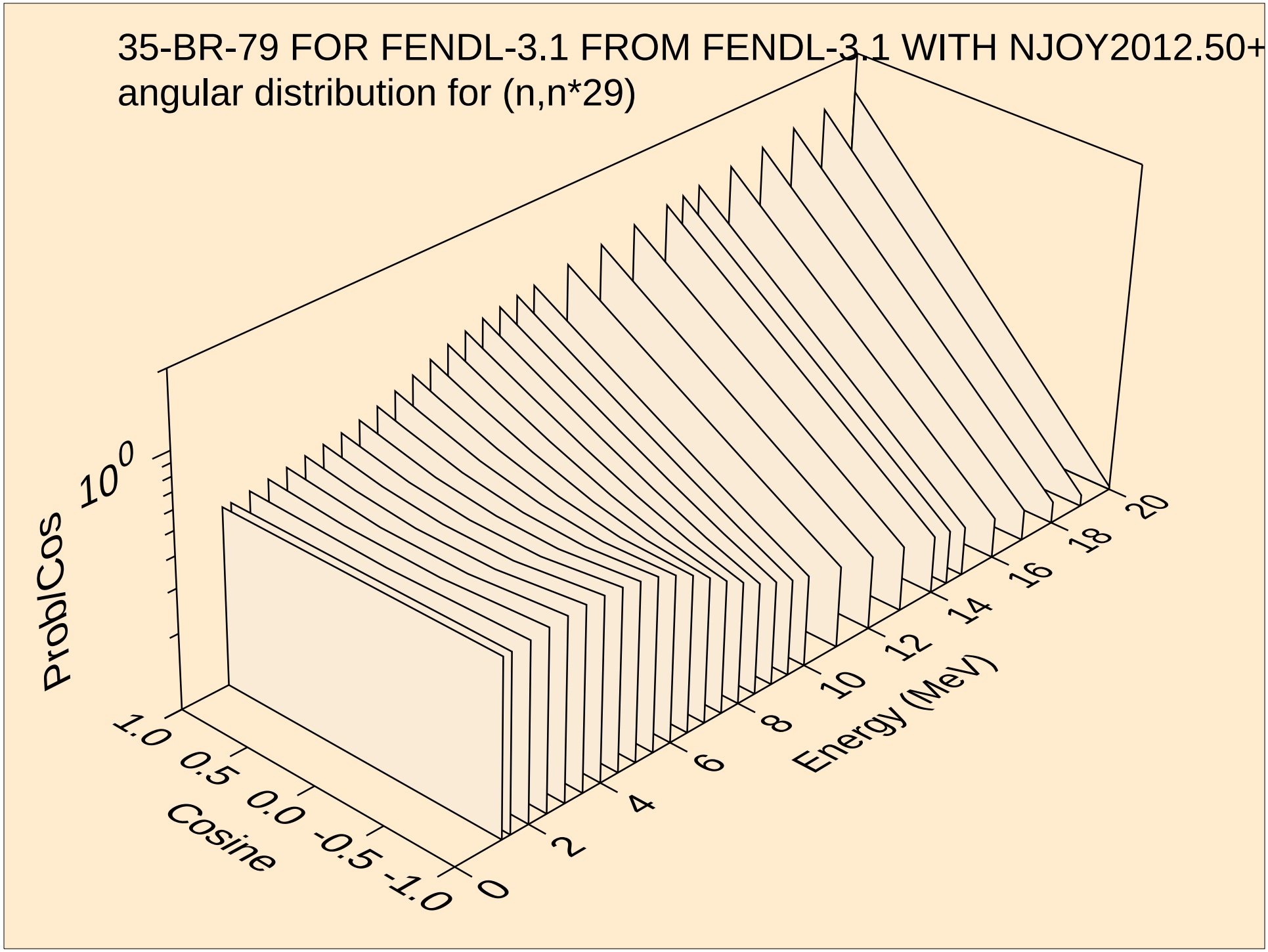

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*24)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

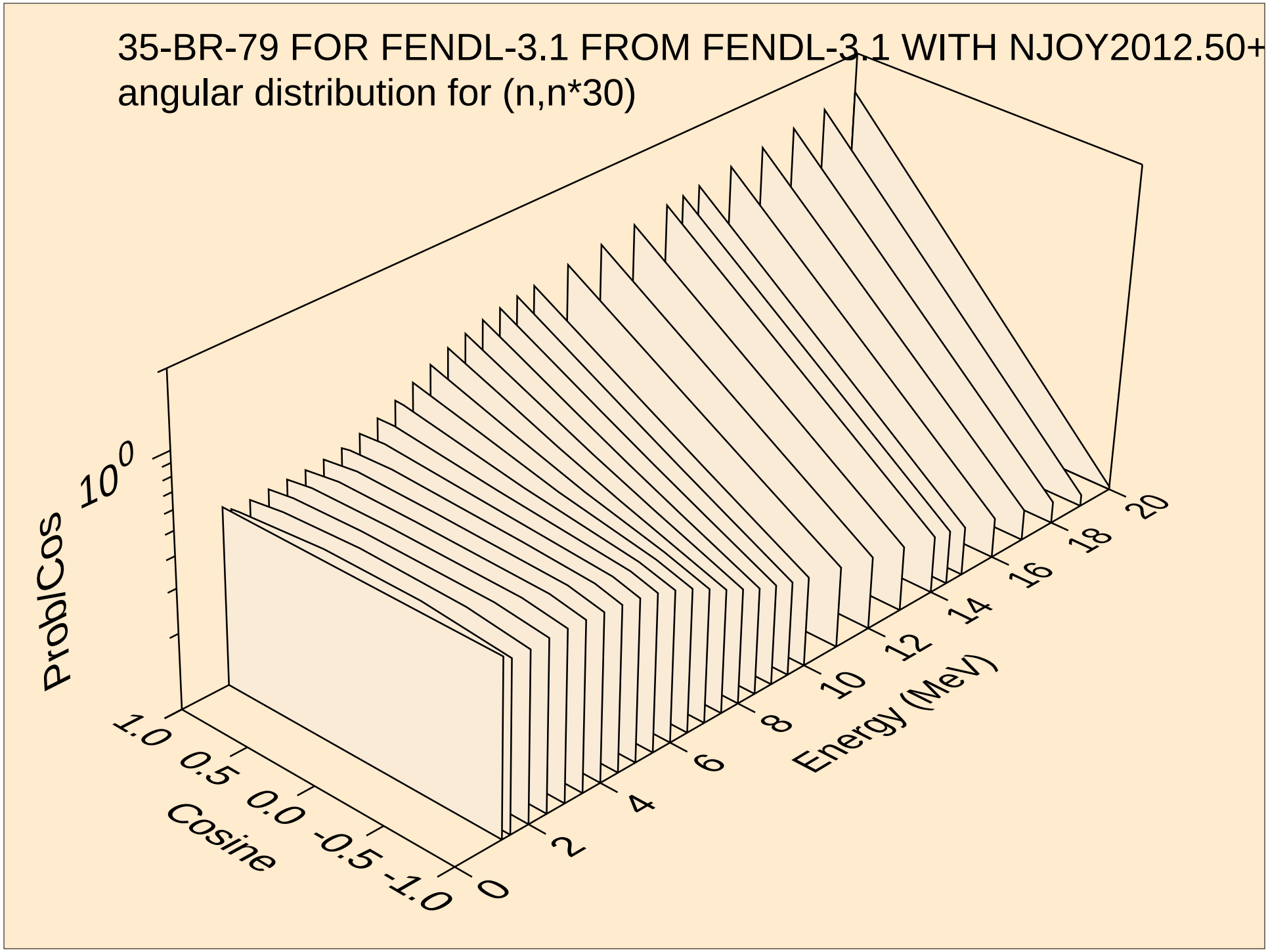

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*25)
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
20

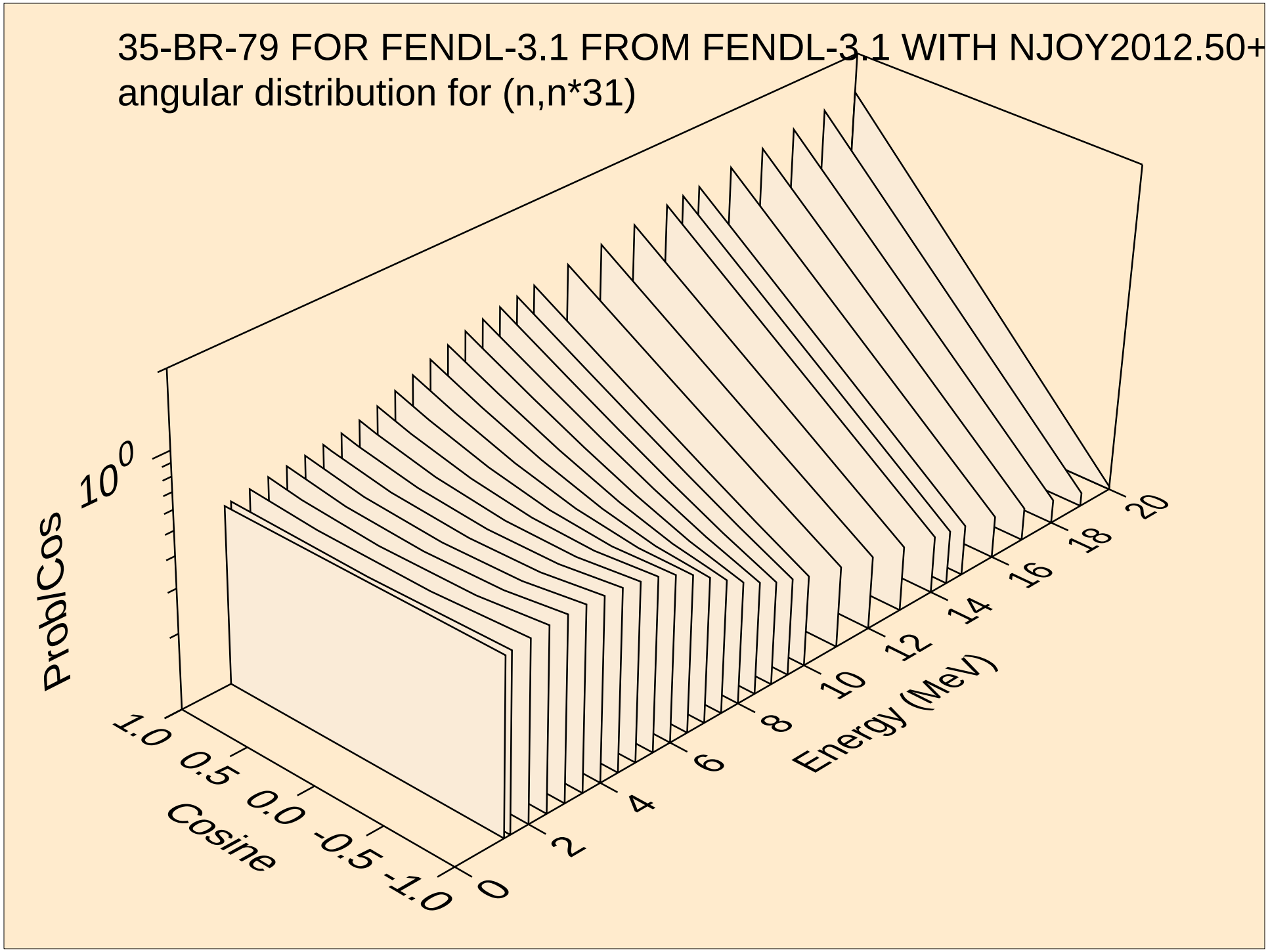

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*26)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

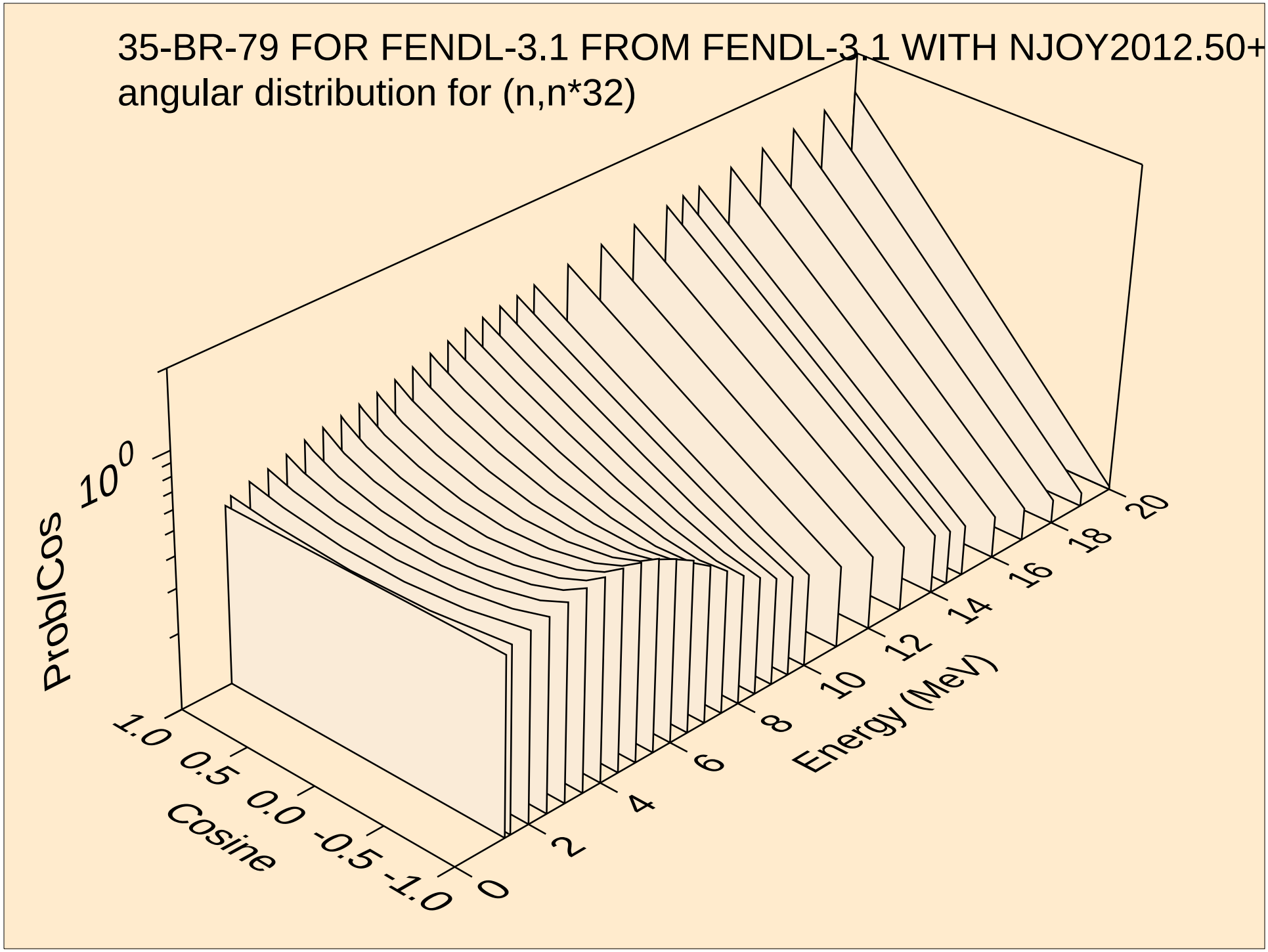

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*27)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

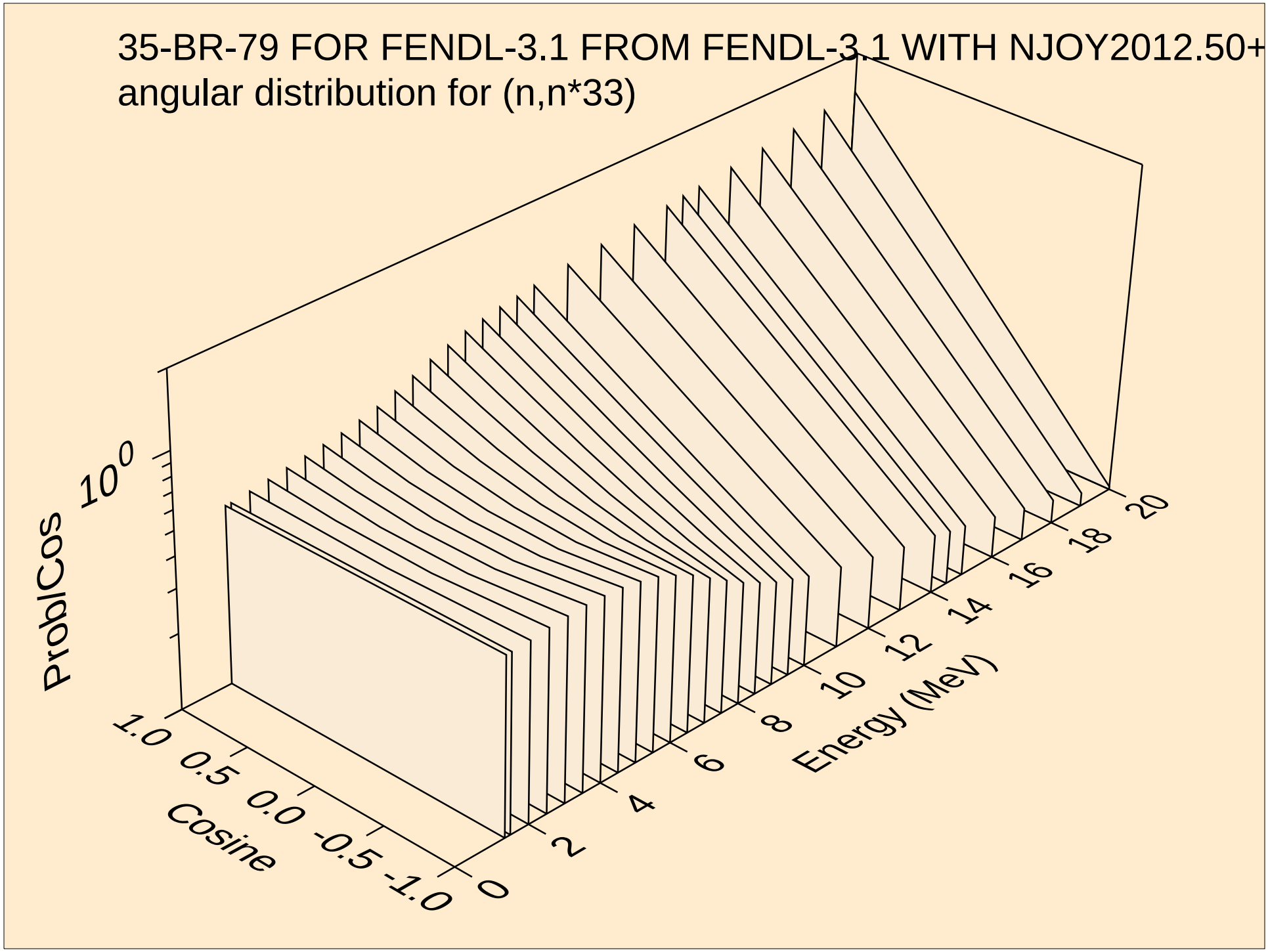

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*28)
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
20

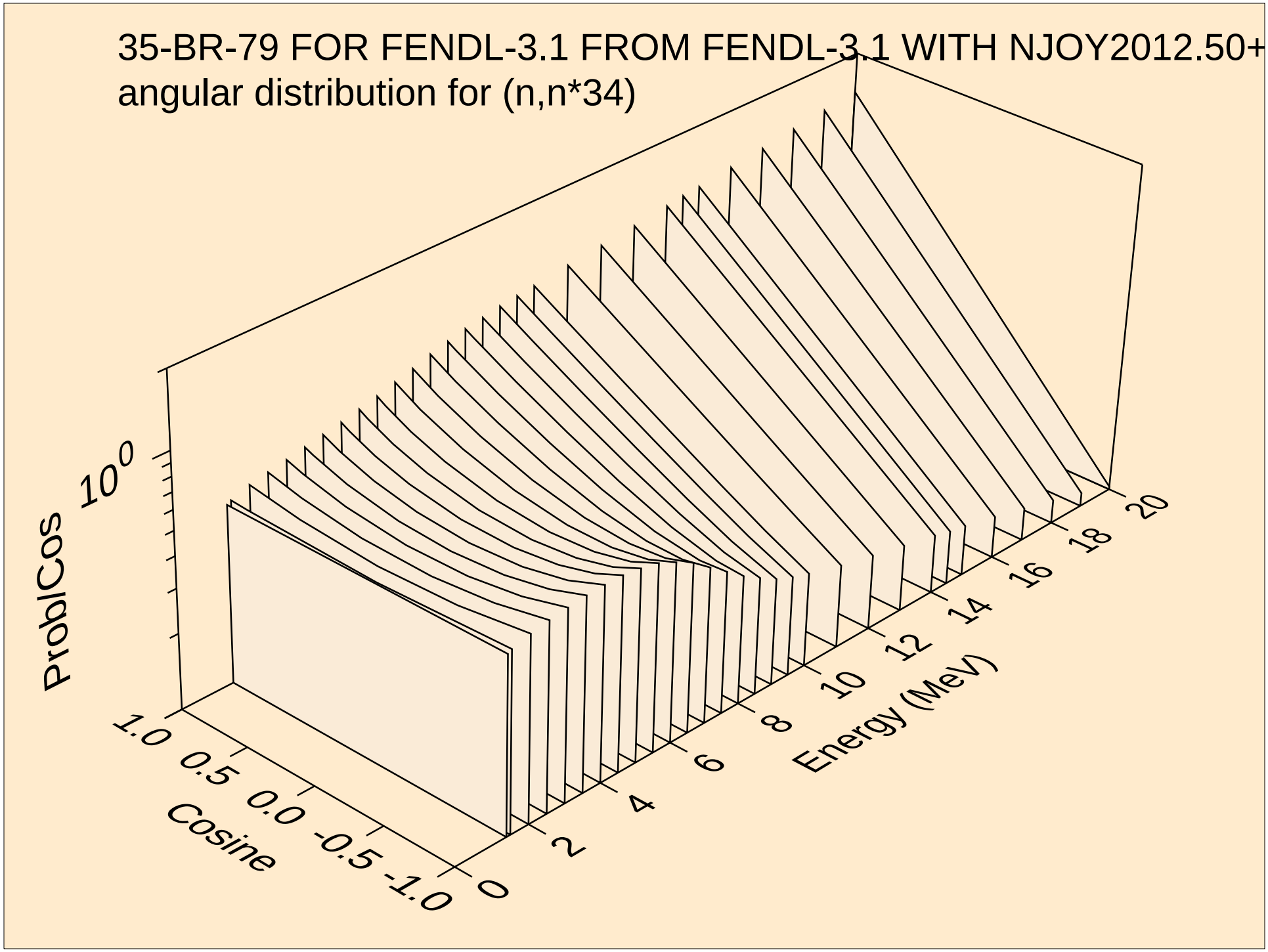

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*29)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

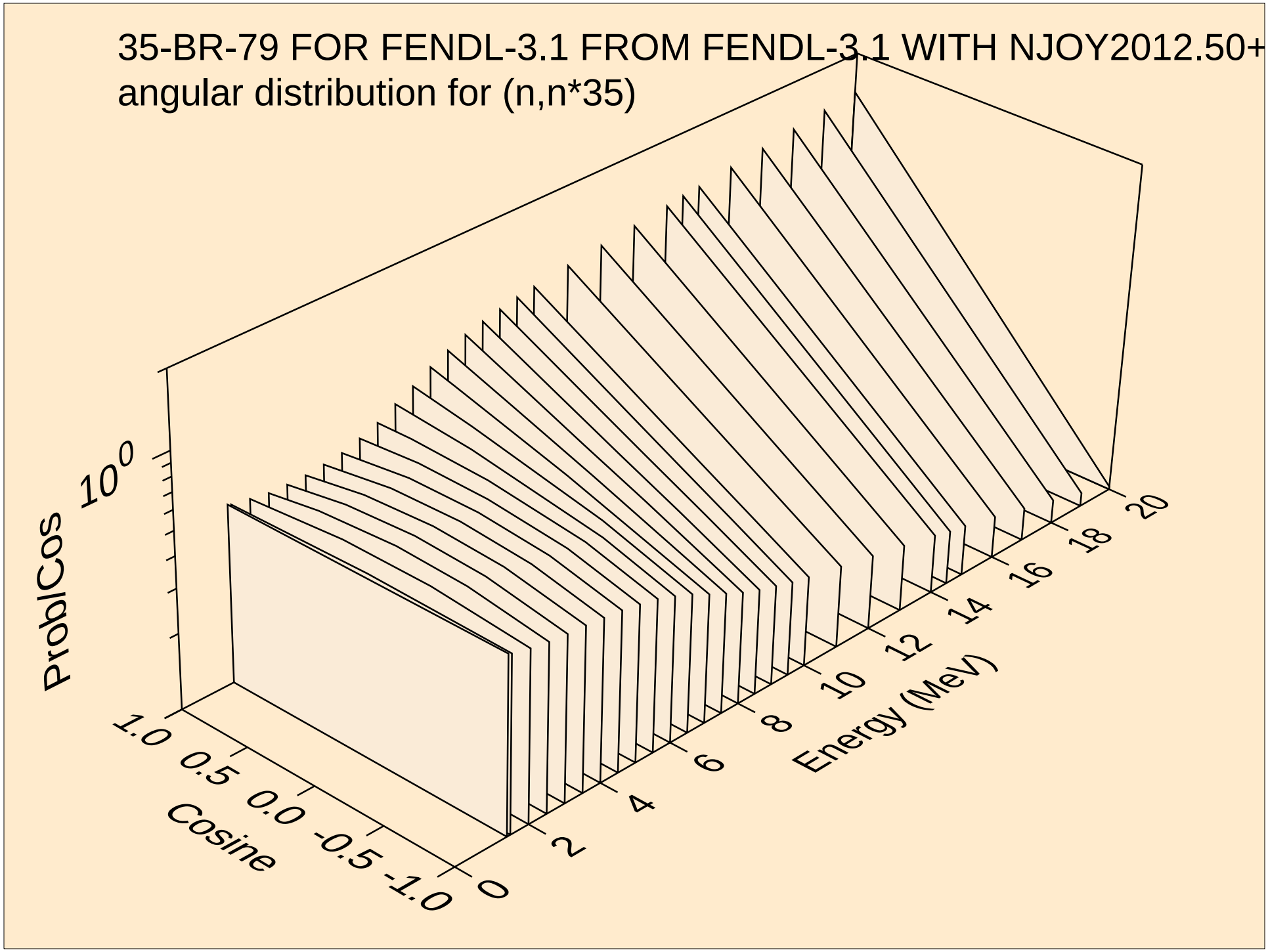

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*30)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

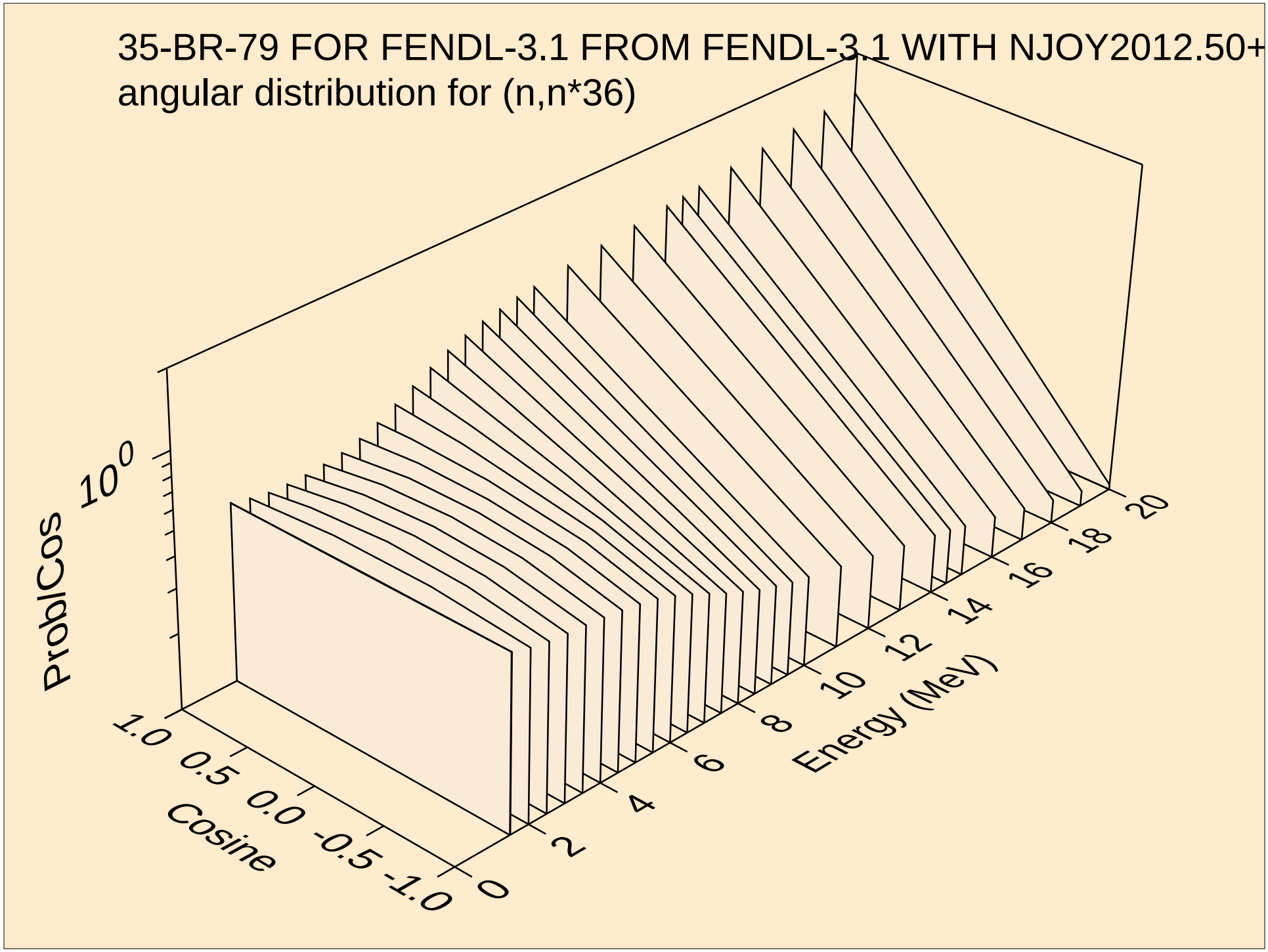

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*31)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

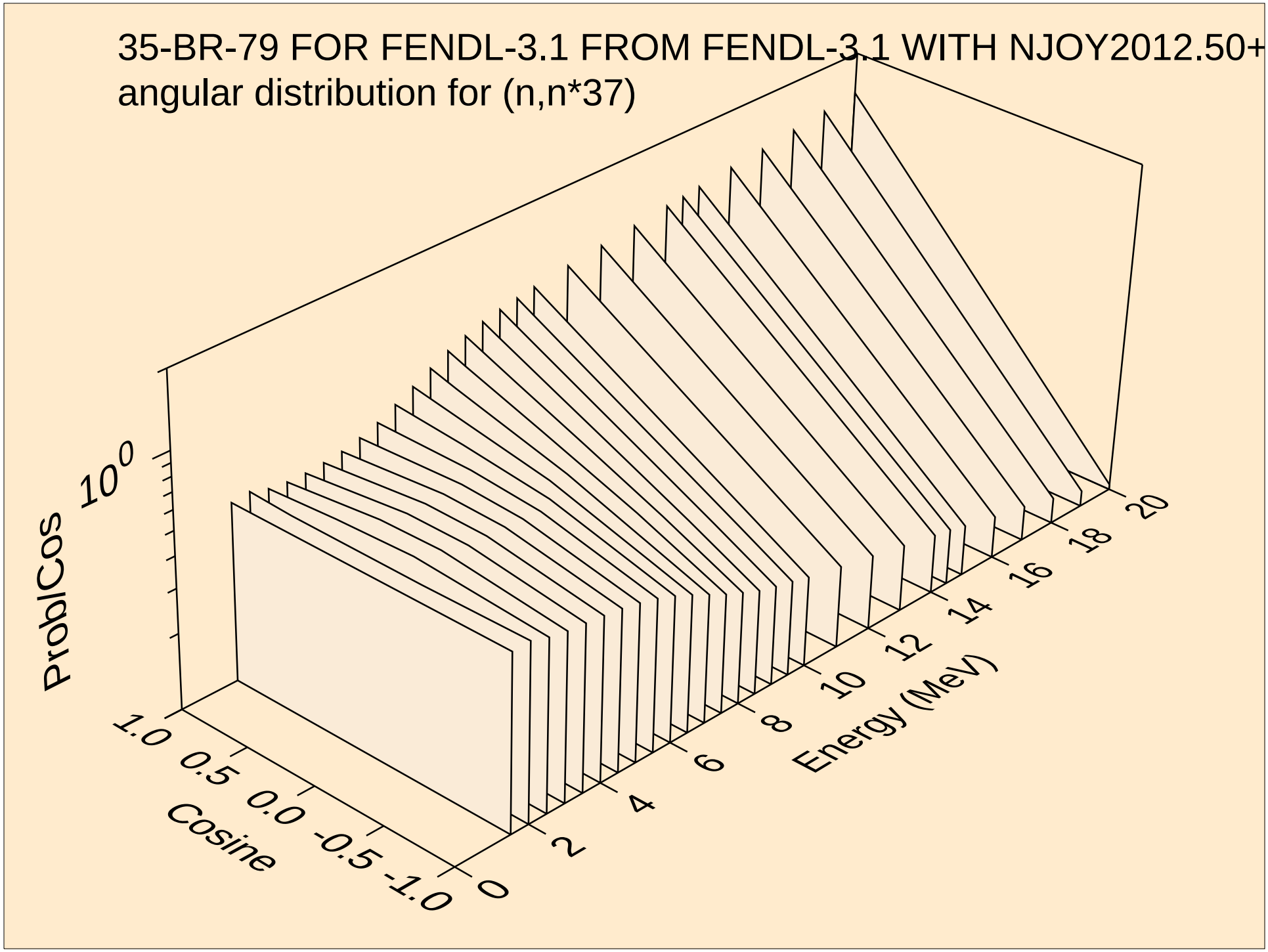

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*32)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

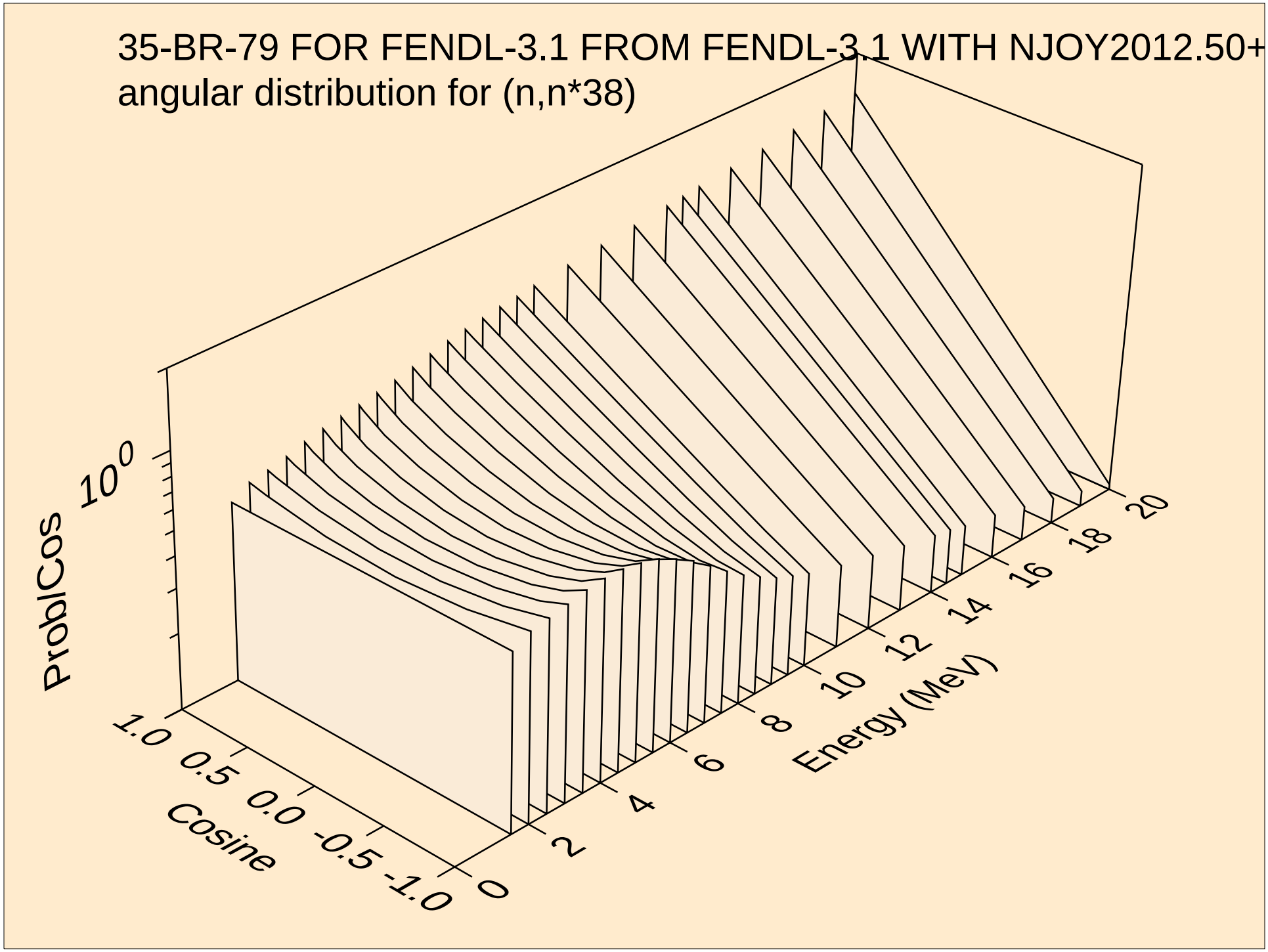

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*33)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

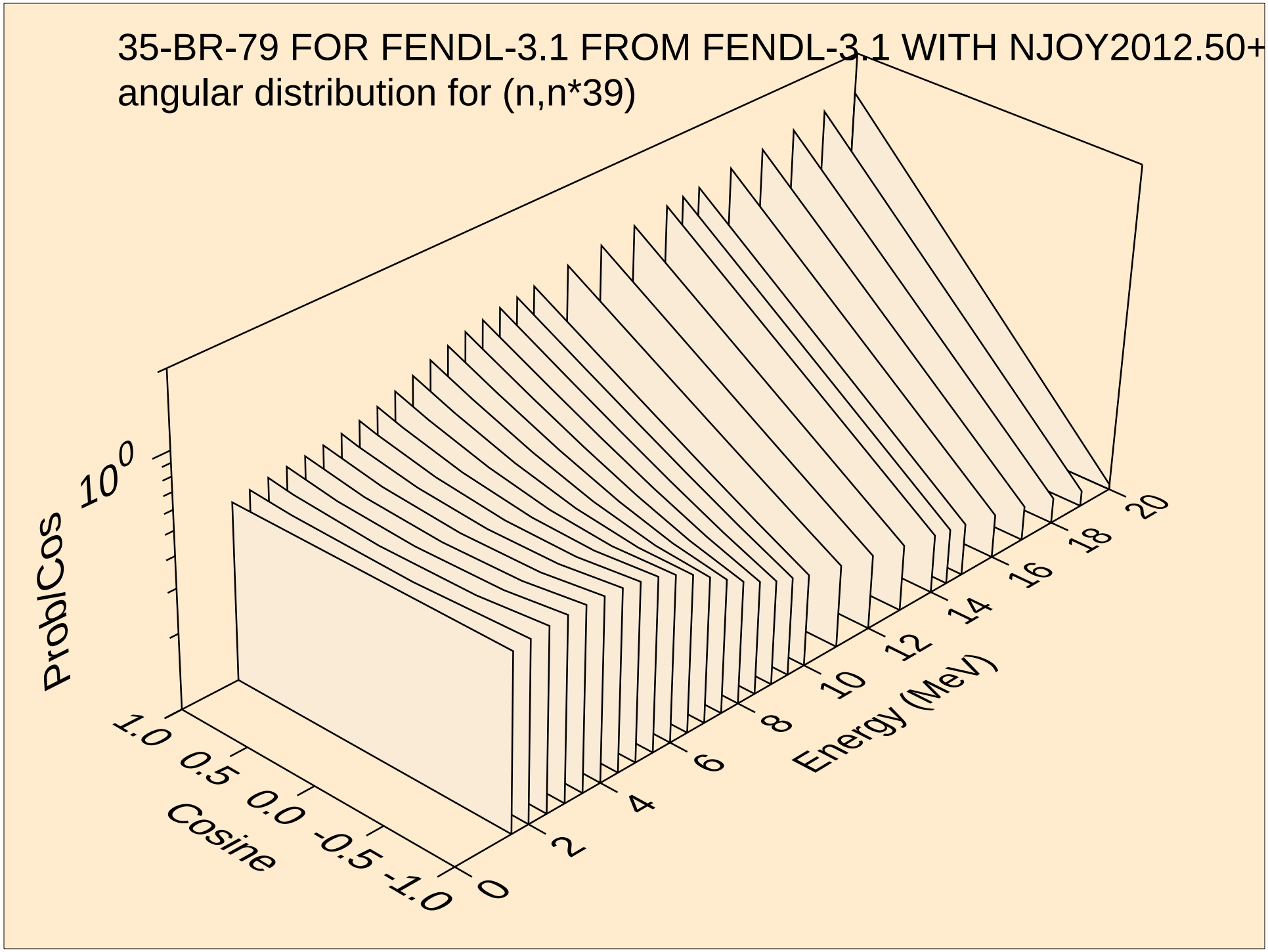

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*34)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

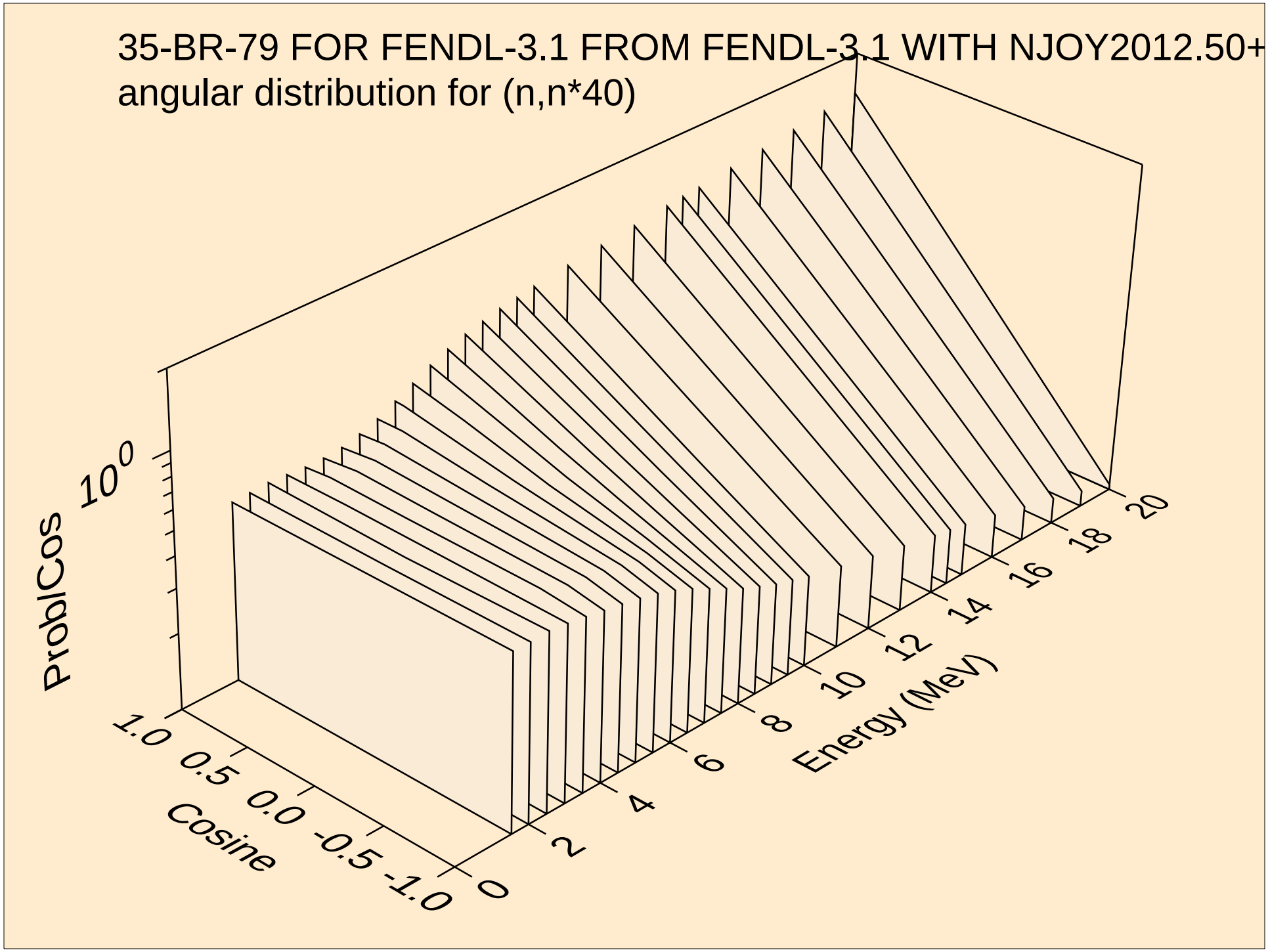

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*35)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

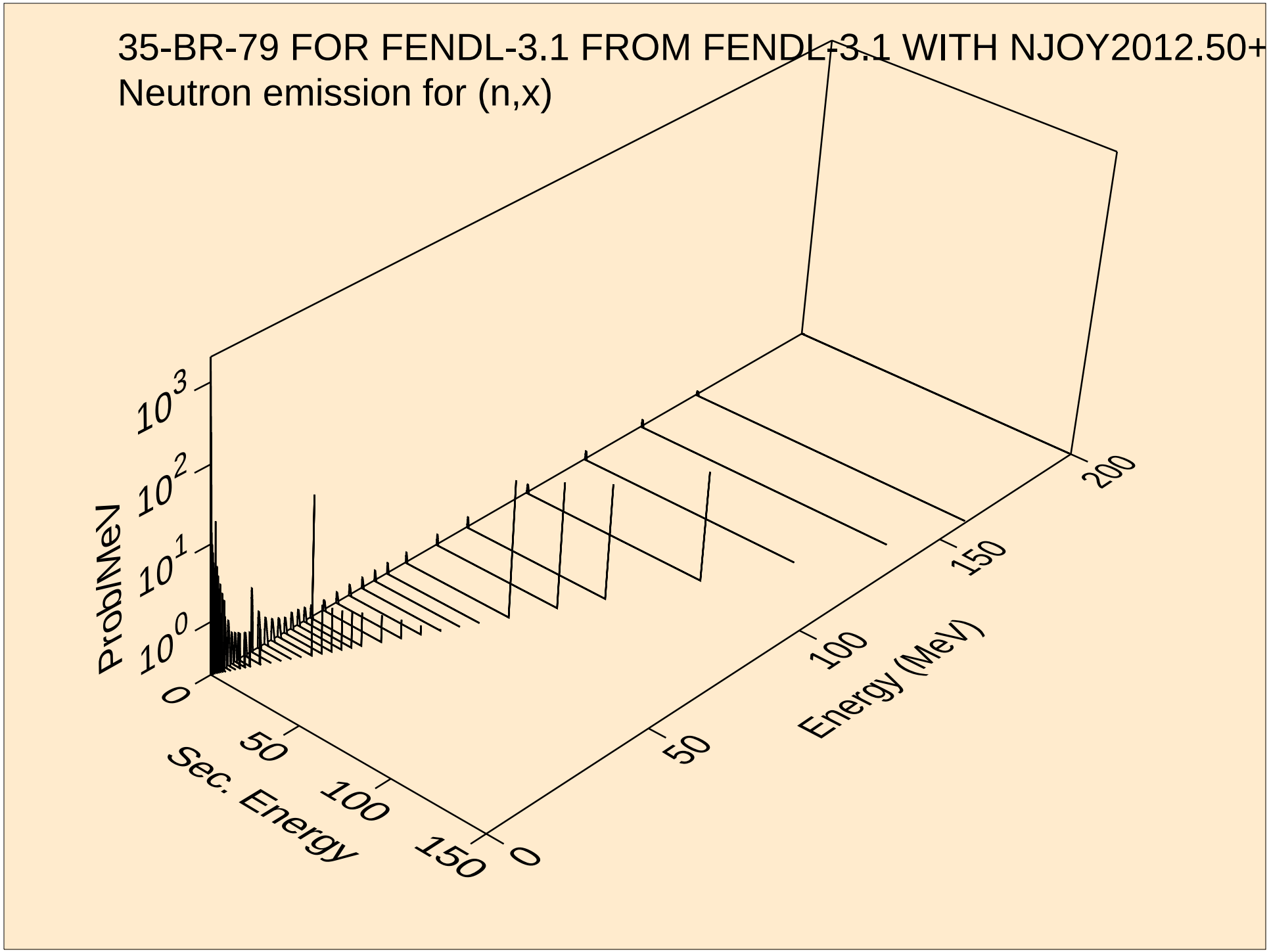

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*36)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

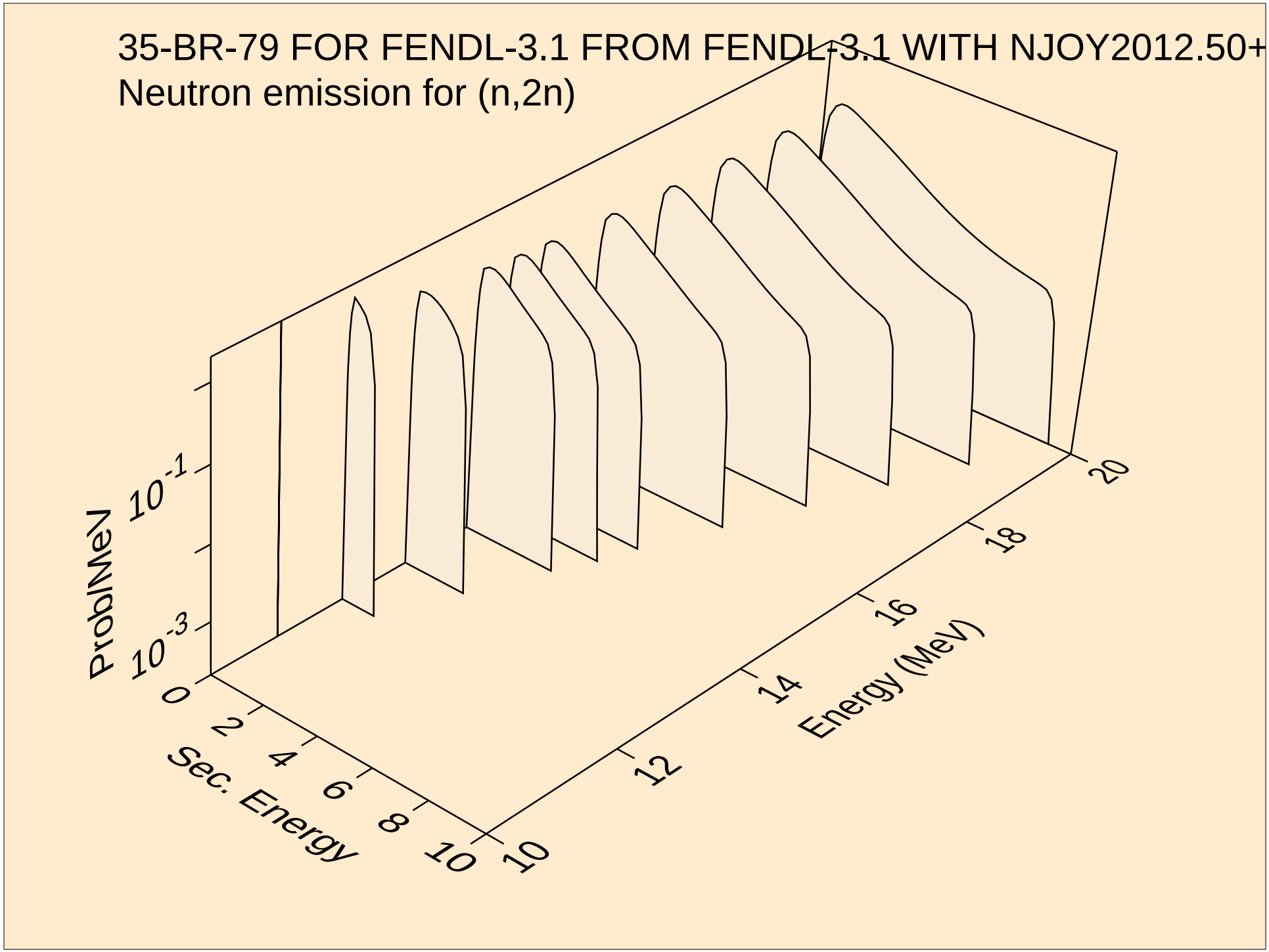

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*37)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

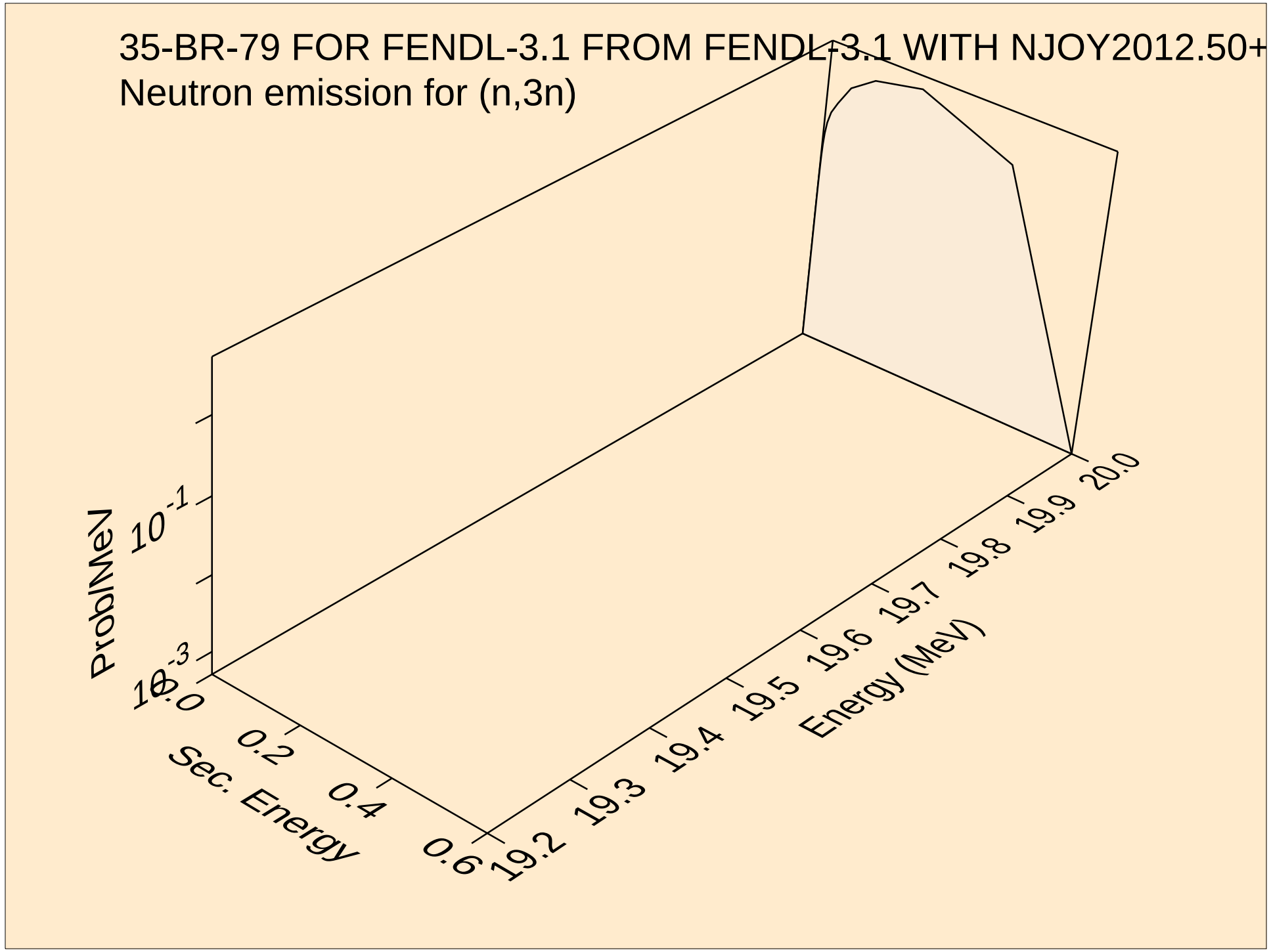

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*38)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

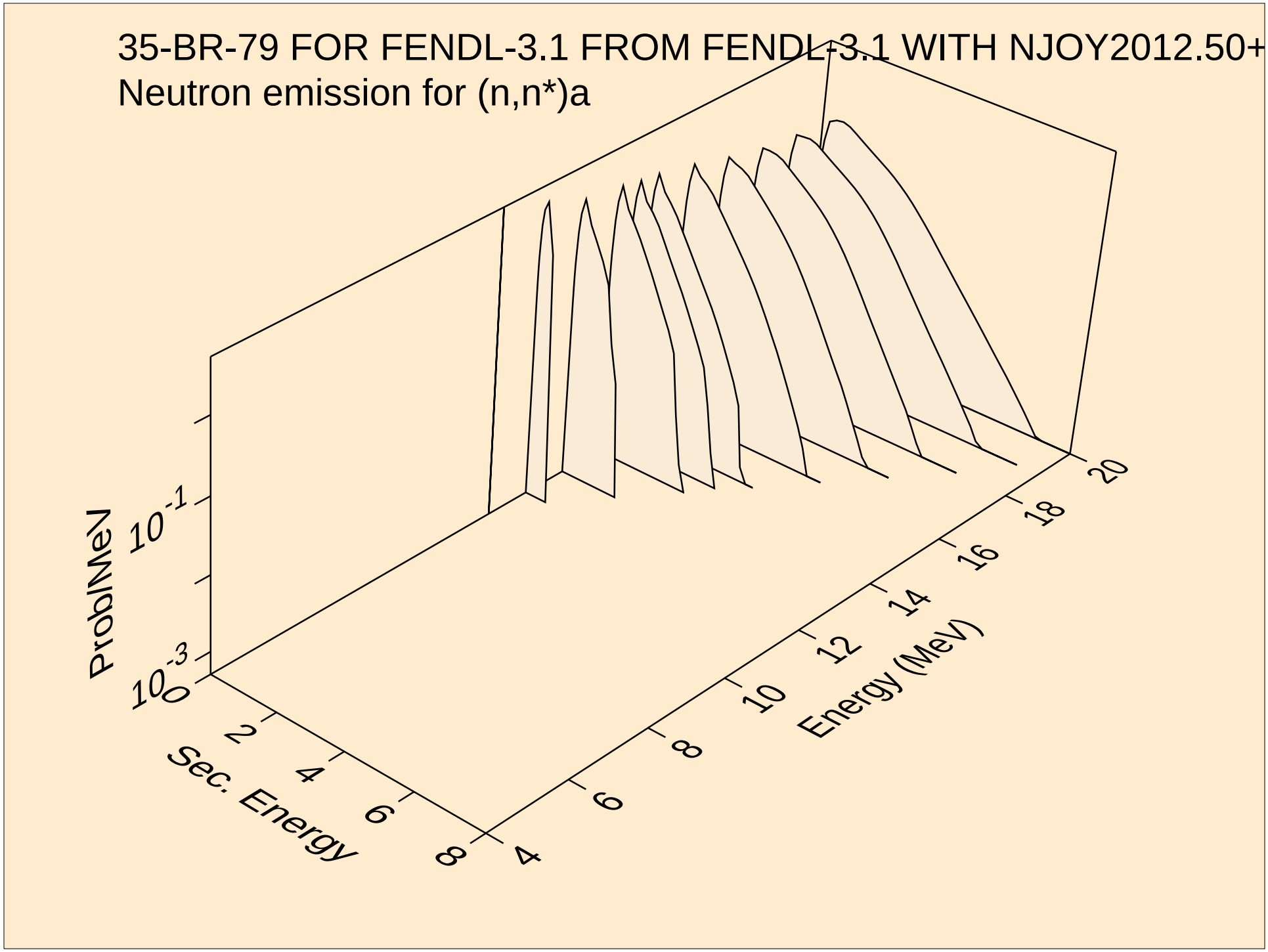

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*39)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

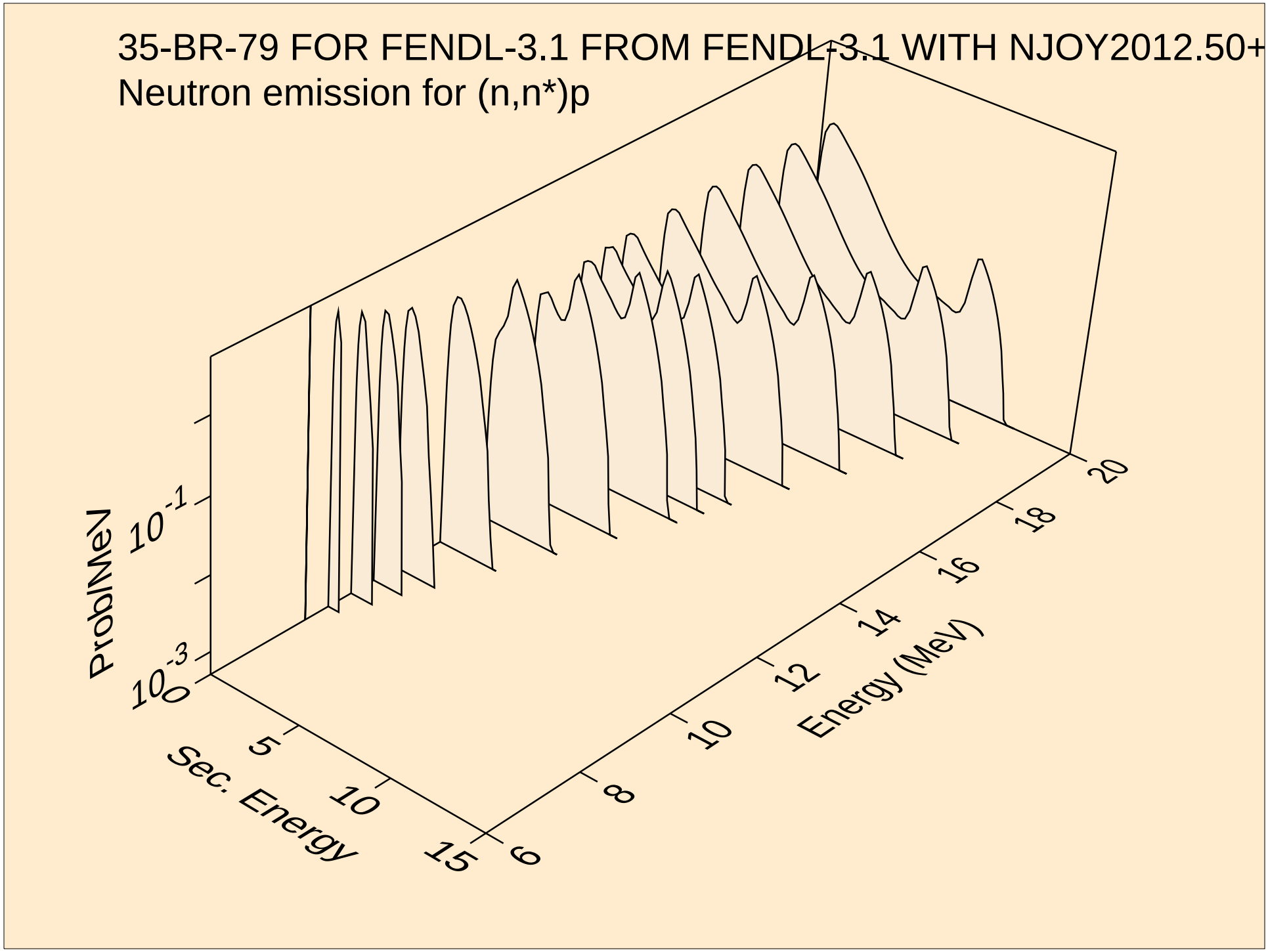

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
angular distribution for (n,n*40)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

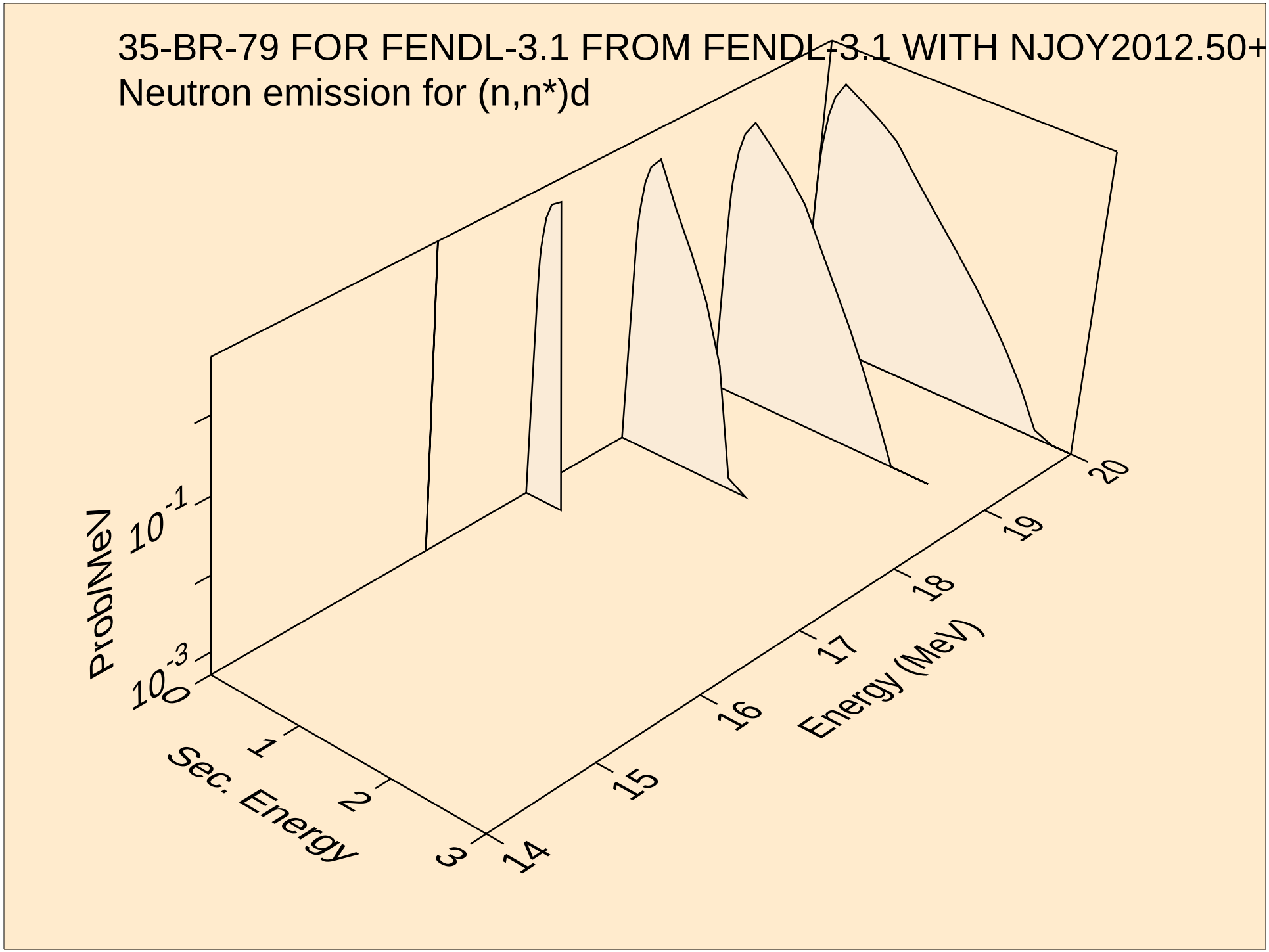

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Neutron emission for (n,x)
Prob/MeV
10^3
10^2
10^1
10^0
0
50
100
150
Sec. Energy
0
50
100
150
200
Energy (MeV)

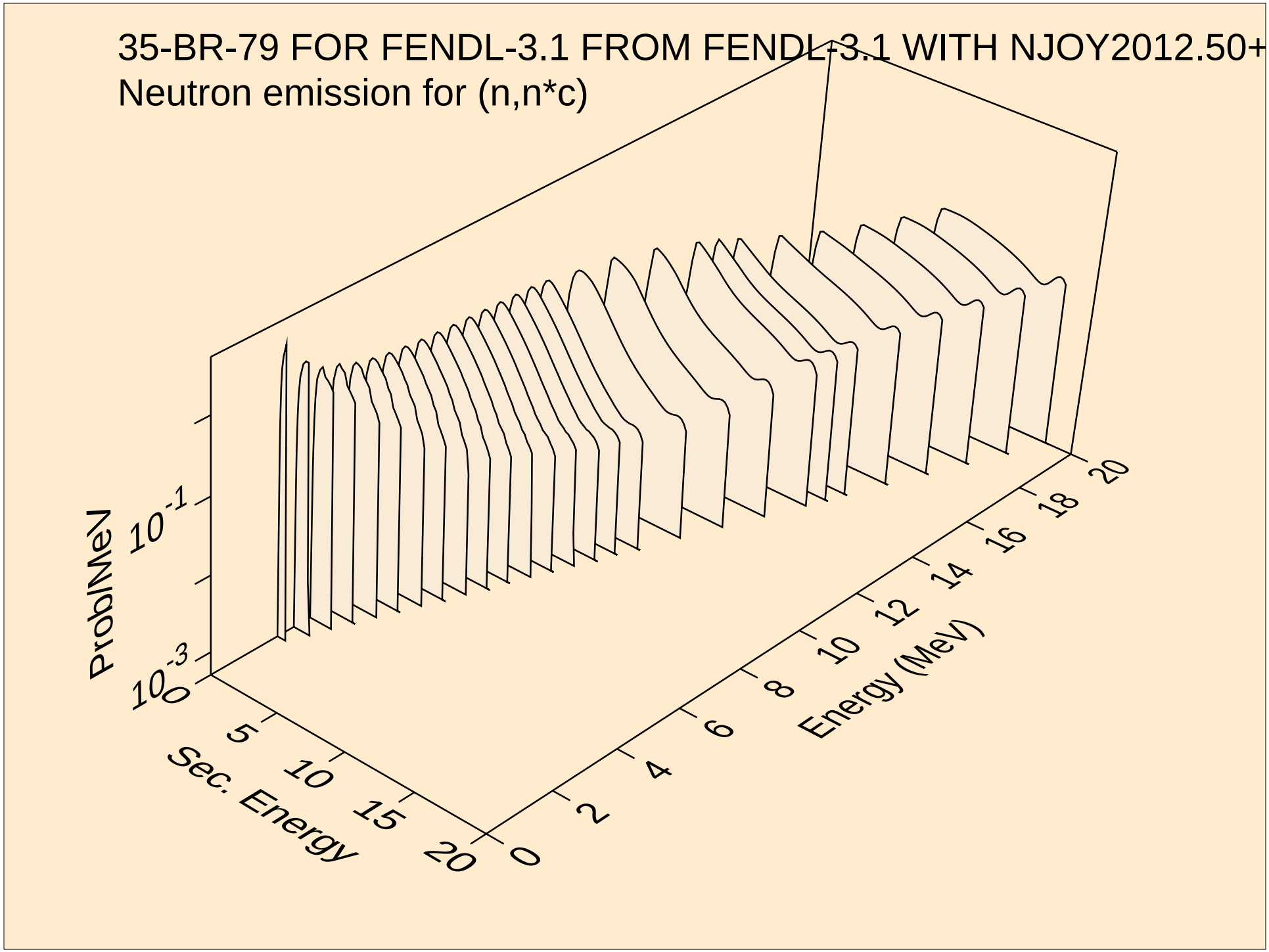

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Neutron emission for (n,2n)
Prob/MeV
10-1
10-3
0
2
4
6
8
10
Sec. Energy
10
12
14
16
18
20
Energy (MeV)

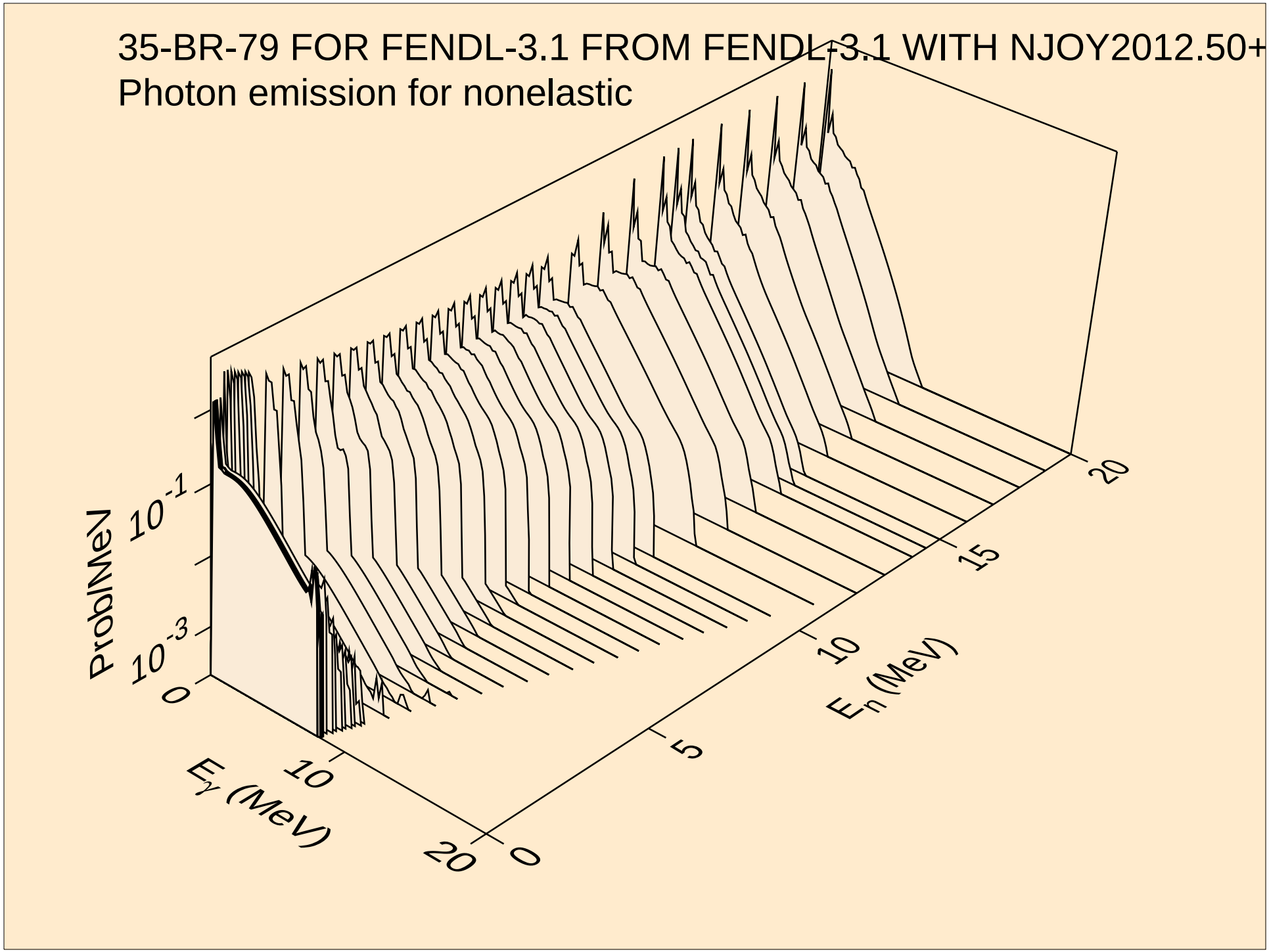

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Neutron emission for (n,3n)
Prob/MeV
10-1
10-3
0.0
0.2
0.4
0.6
Sec. Energy
19.2
19.3
19.4
19.5
19.6
19.7
19.8
19.9
20.0
Energy (MeV)

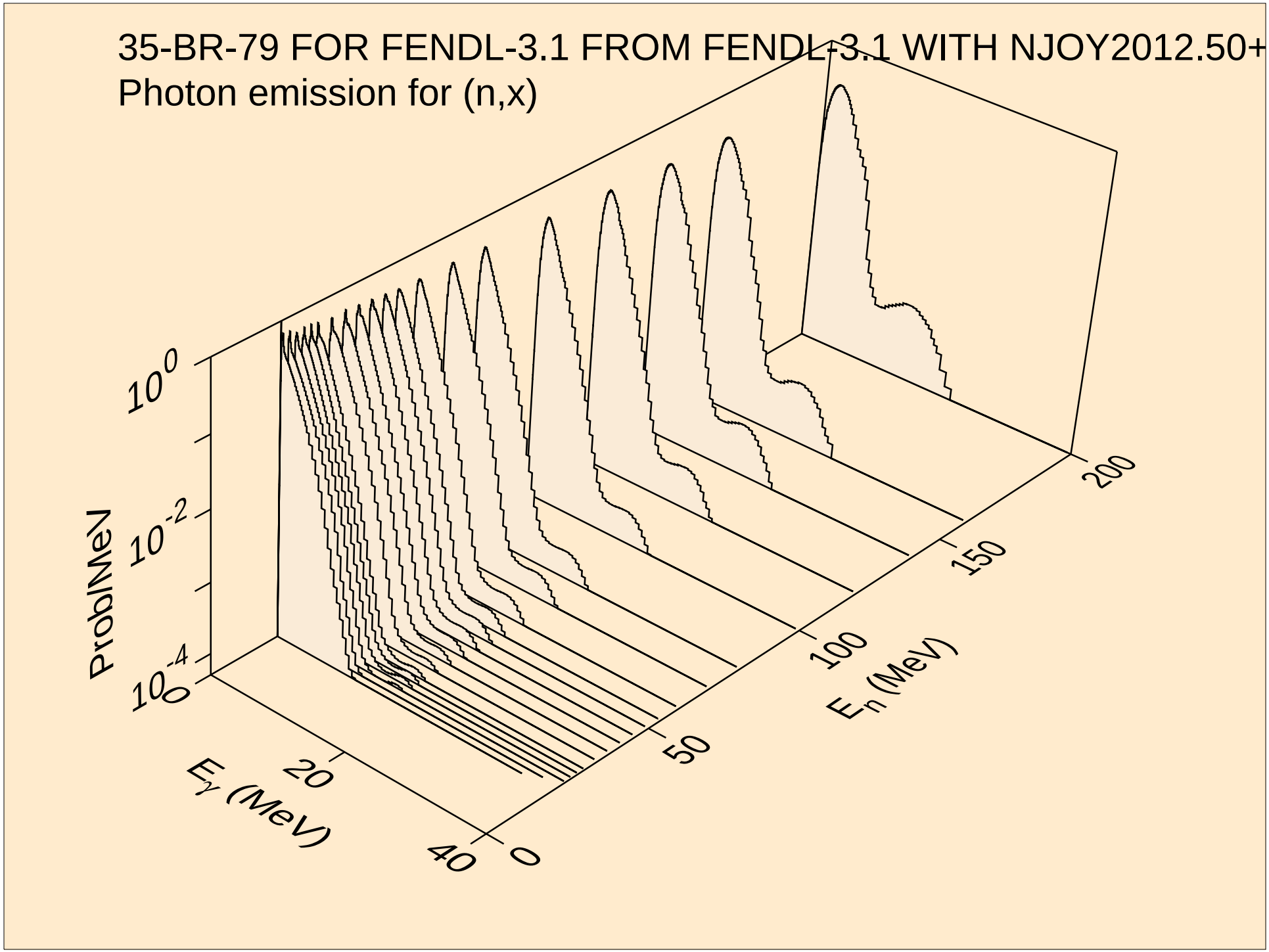

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Neutron emission for (n,n*)a
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
4
6
8
10
12
14
16
18
20
Energy (MeV)

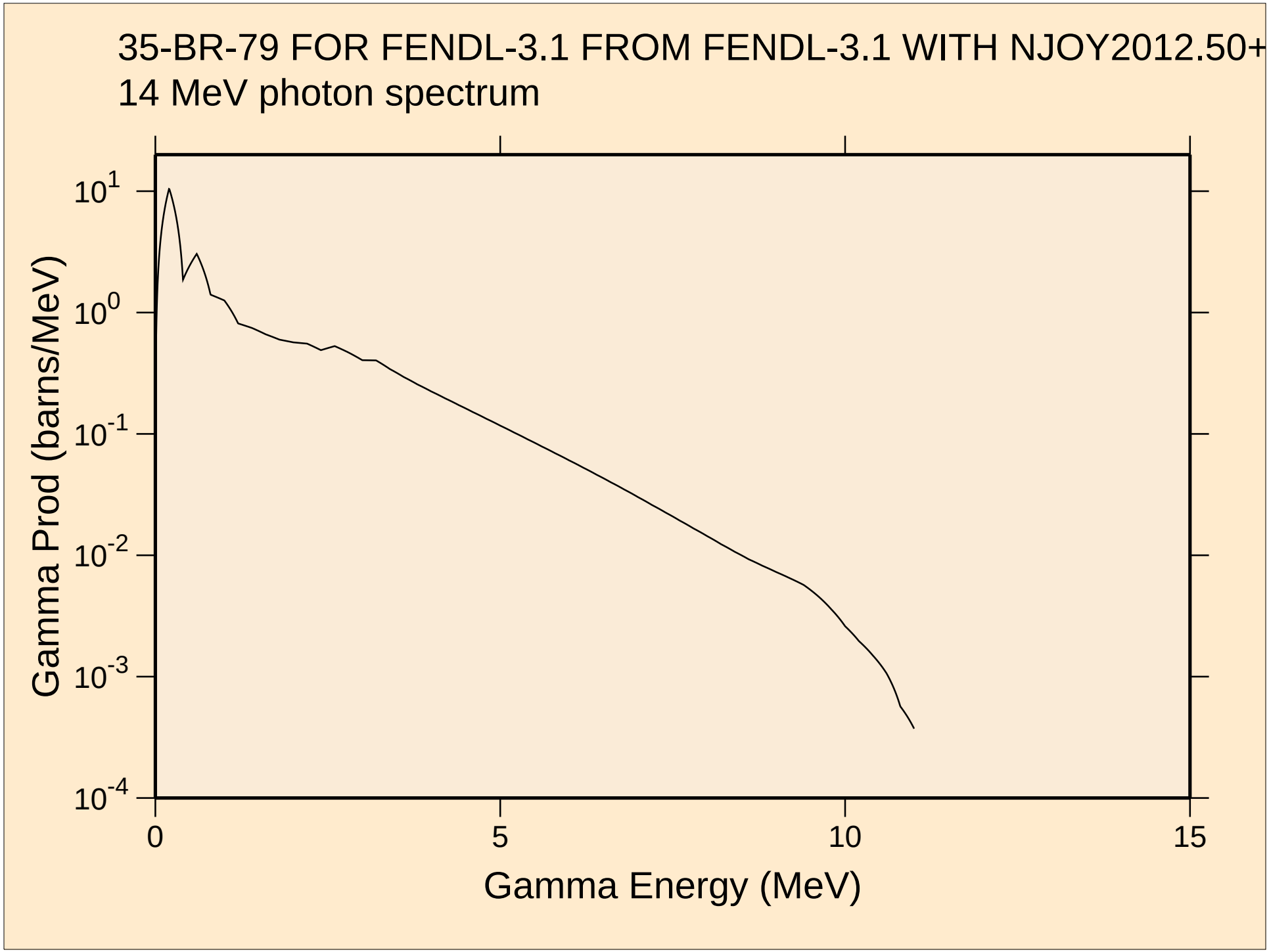

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Neutron emission for (n,n*)p
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
6
8
10
12
14
16
18
20
Energy (MeV)

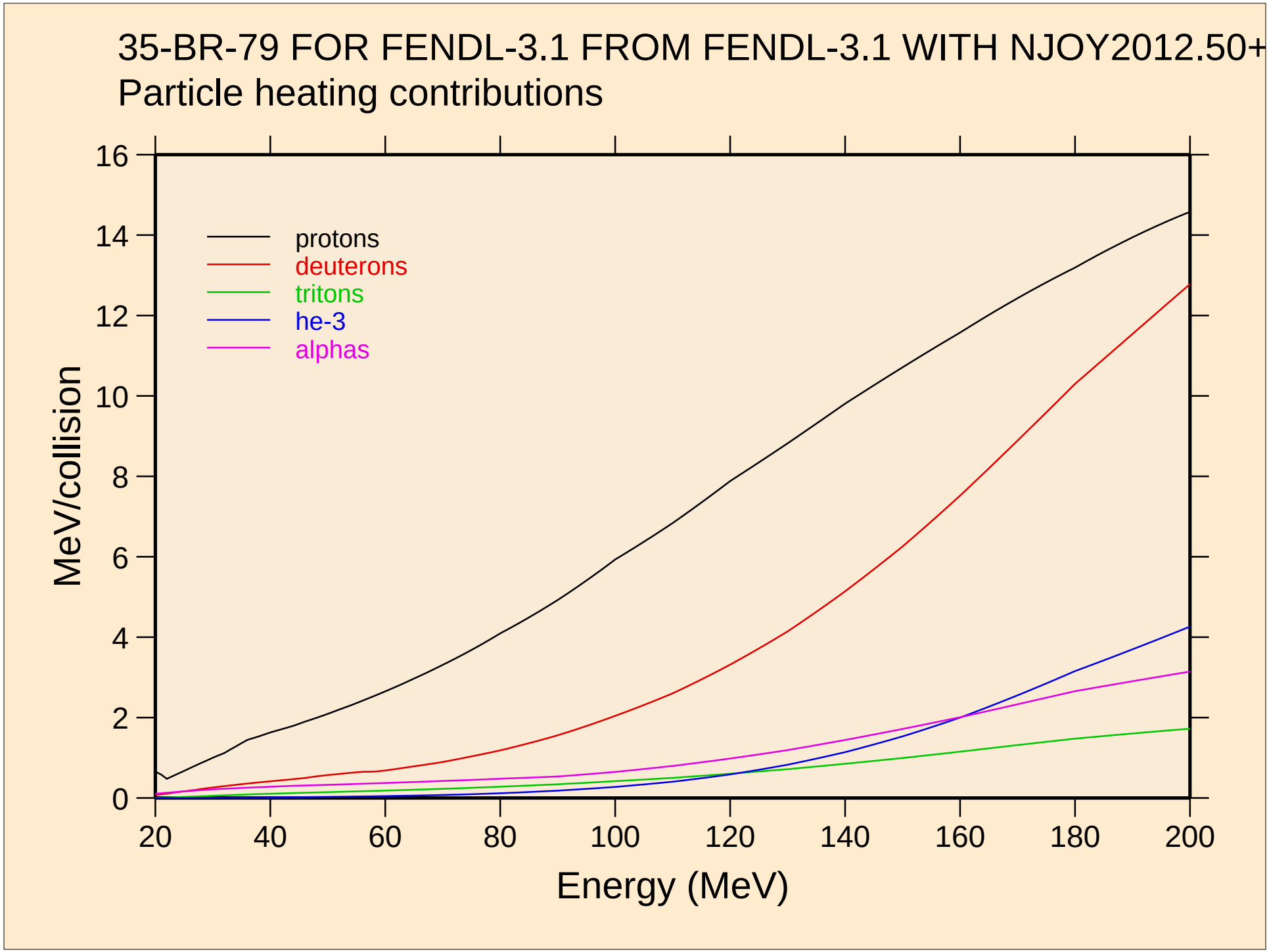

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Neutron emission for (n,n*)d
Prob/MeV
10-1
10-3
0
1
2
3
Sec. Energy
14
15
16
17
18
19
20
Energy (MeV)

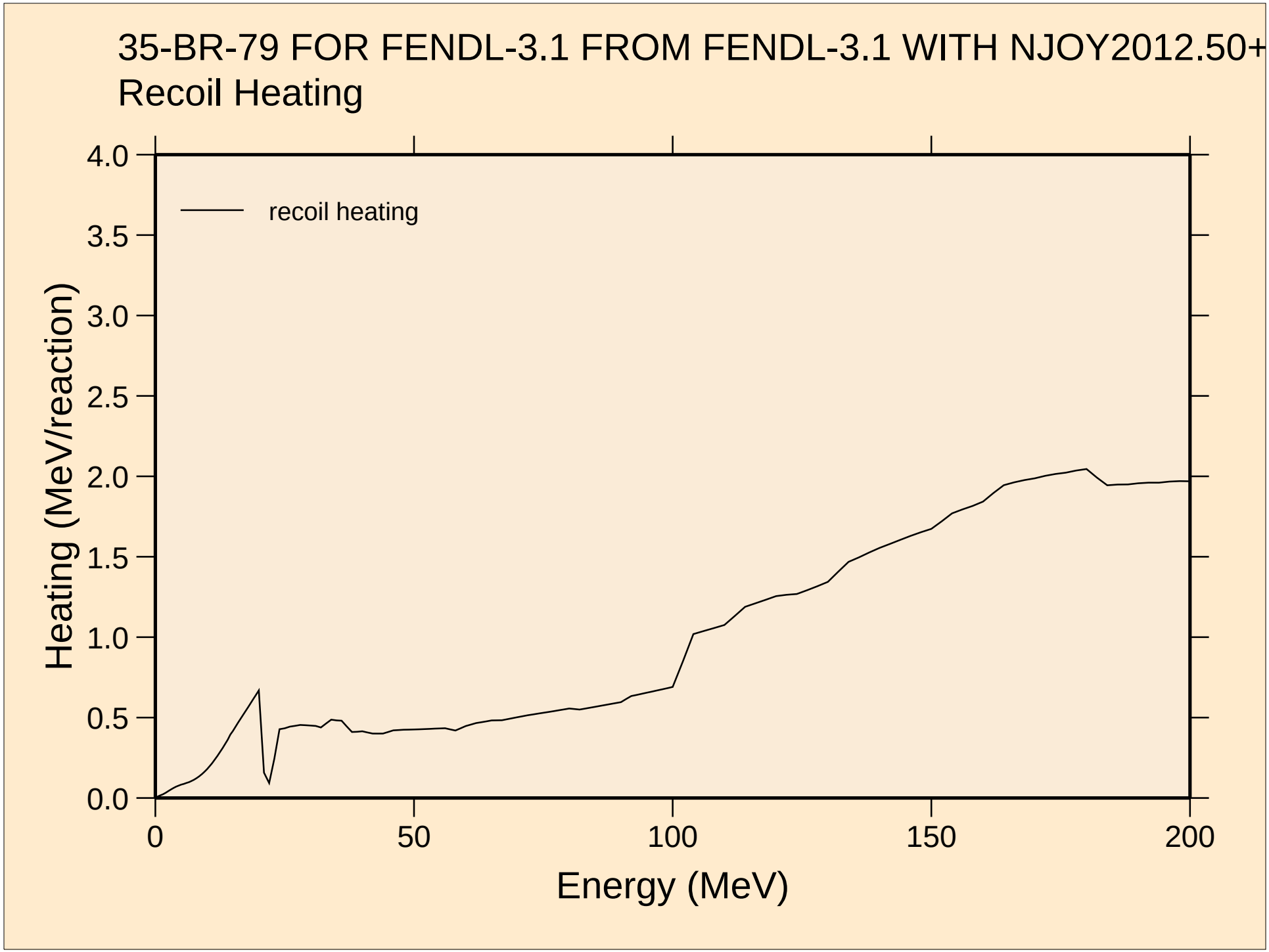

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Neutron emission for (n,n*c)
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

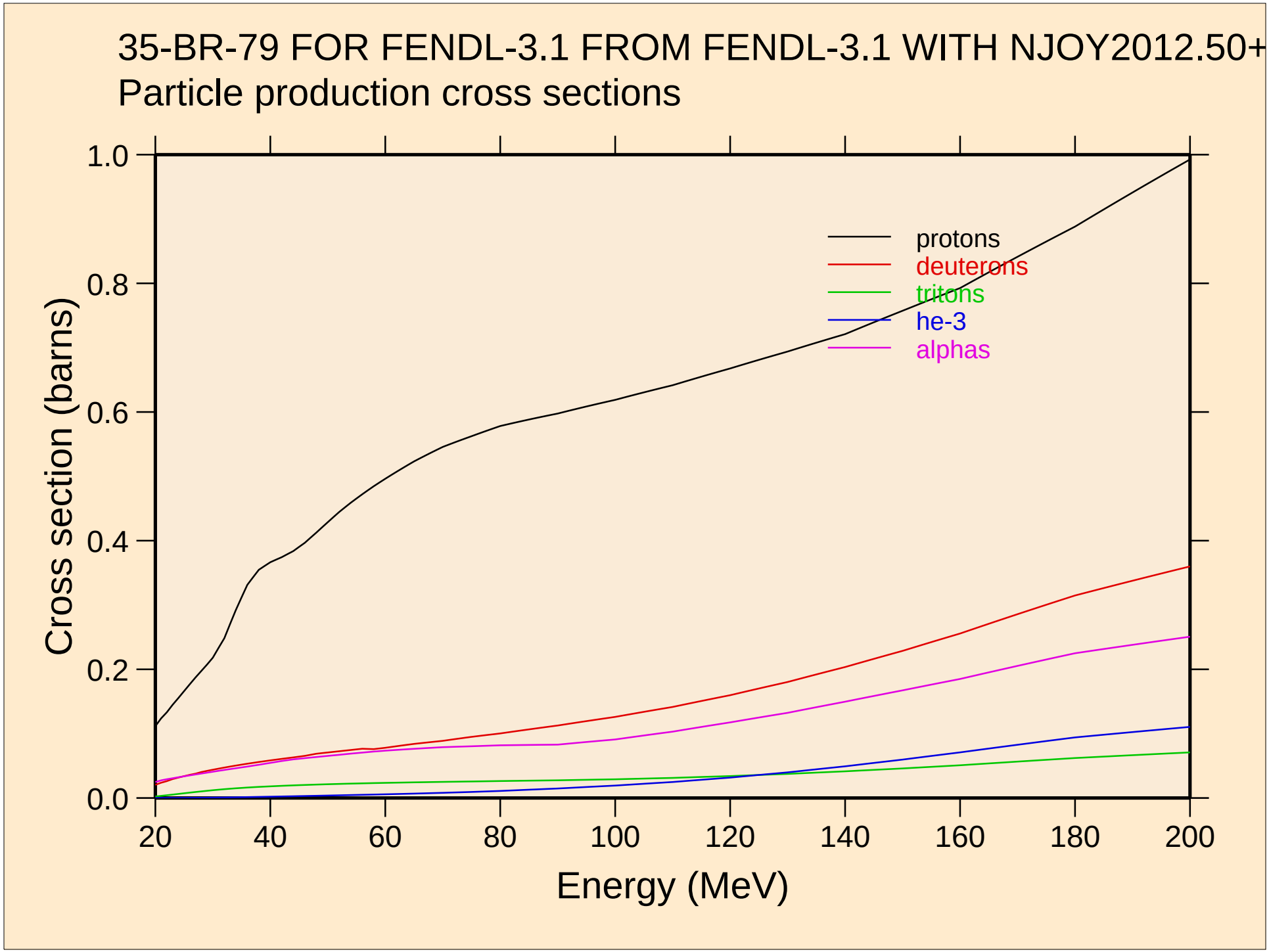

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Photon emission for nonelastic
Prob/MeV
10-1
10-3
0
Eγ (MeV)
10
20
0
5
10
15
20
En (MeV)

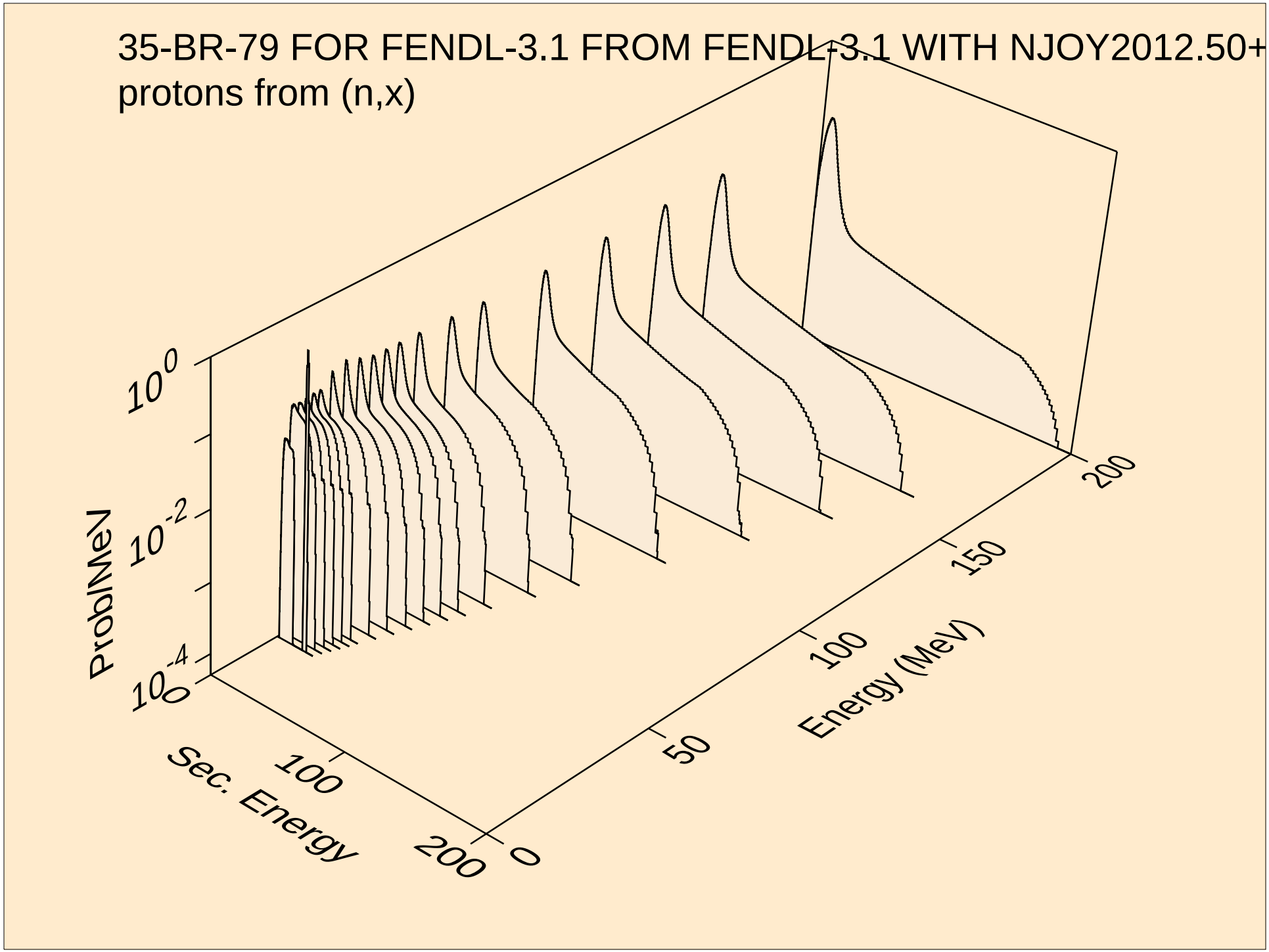

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Photon emission for (n,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
20
40
E_γ (MeV)
0
50
100
150
200
E_n (MeV)

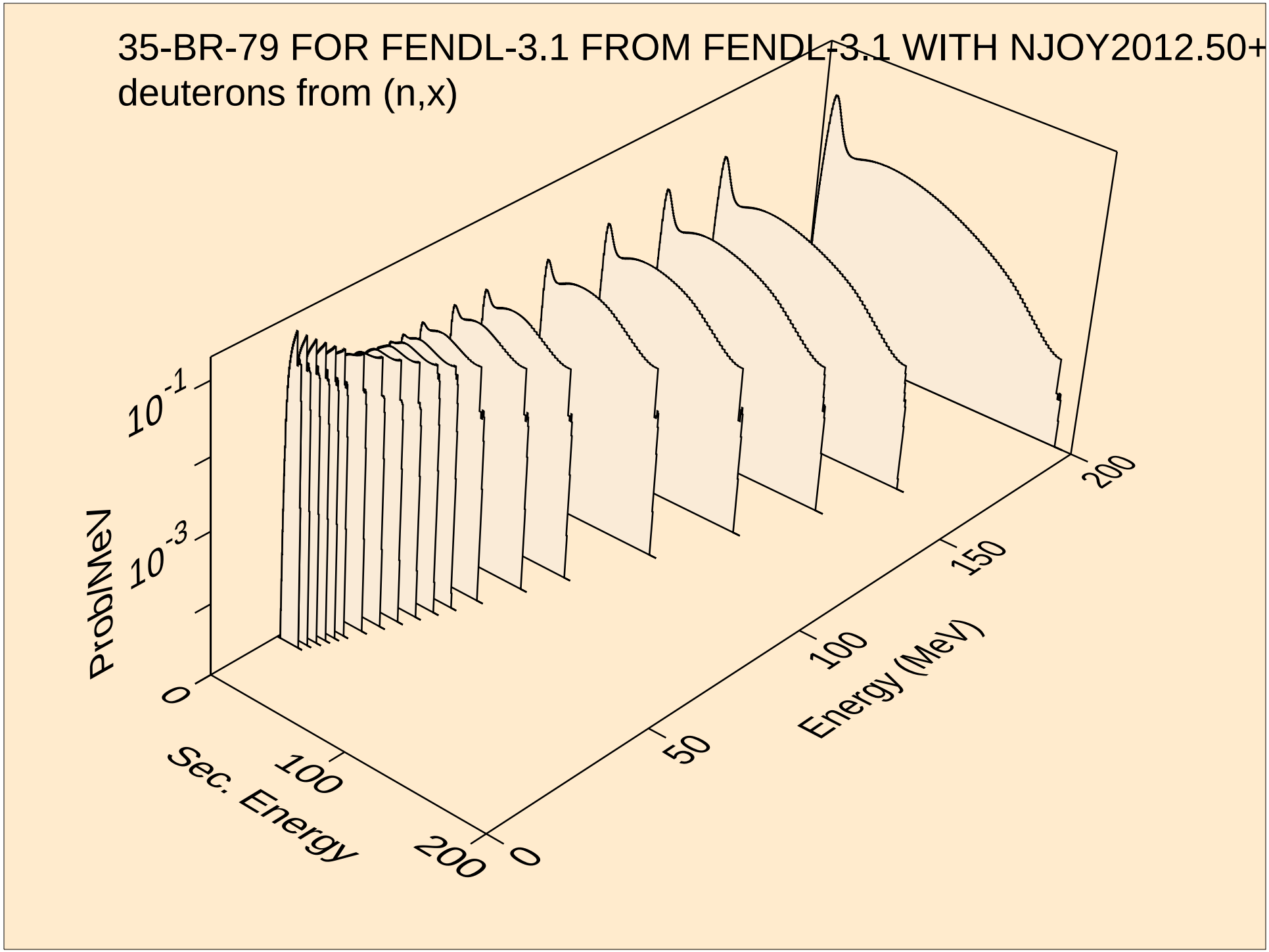

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0
5
10
15
Gamma Energy (MeV)

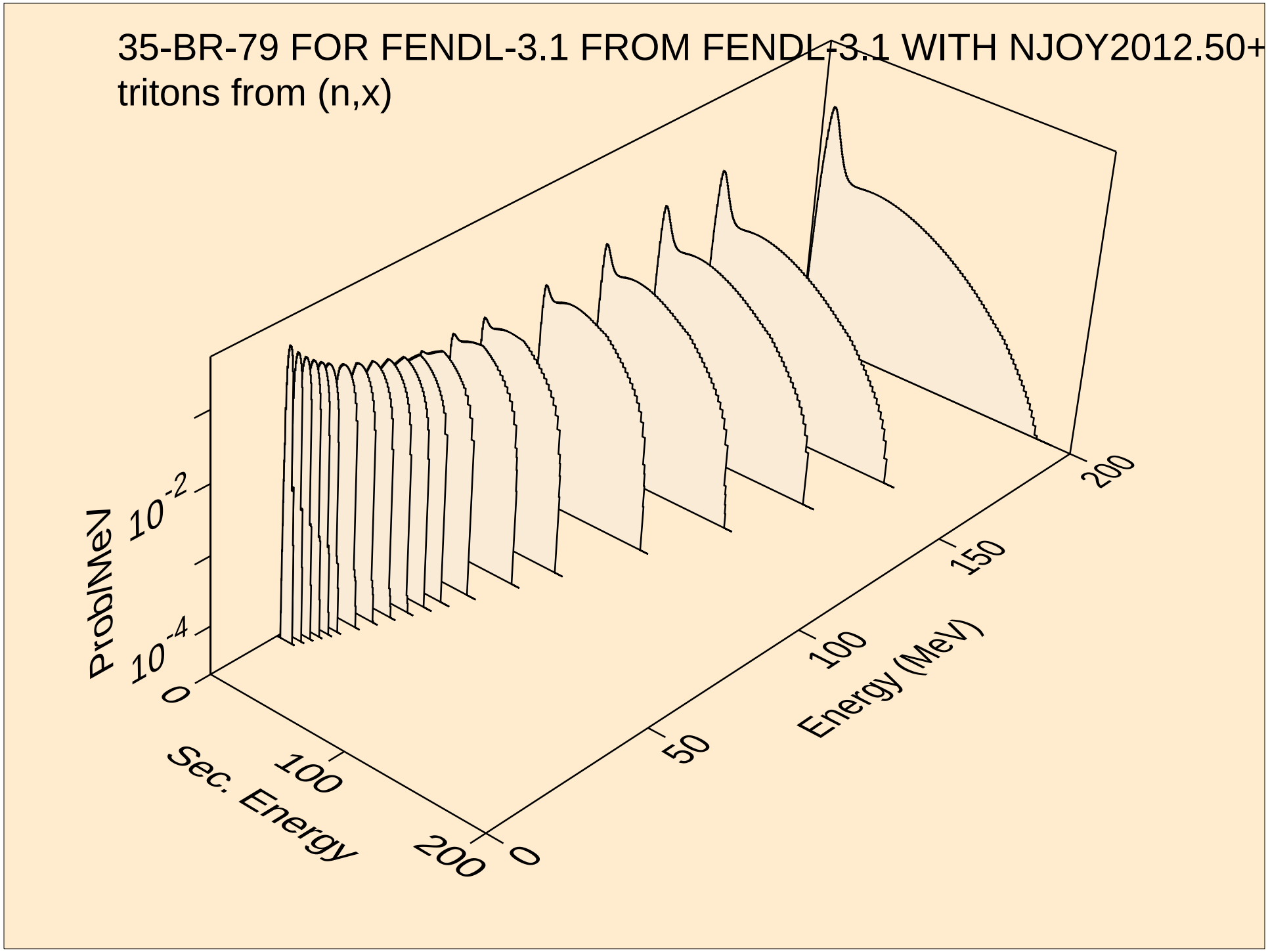

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Particle heating contributions
protons
deuterons
tritons
he-3
alphas
MeV/collision
Energy (MeV)
0
2
4
6
8
10
12
14
16
20
40
60
80
100
120
140
160
180
200

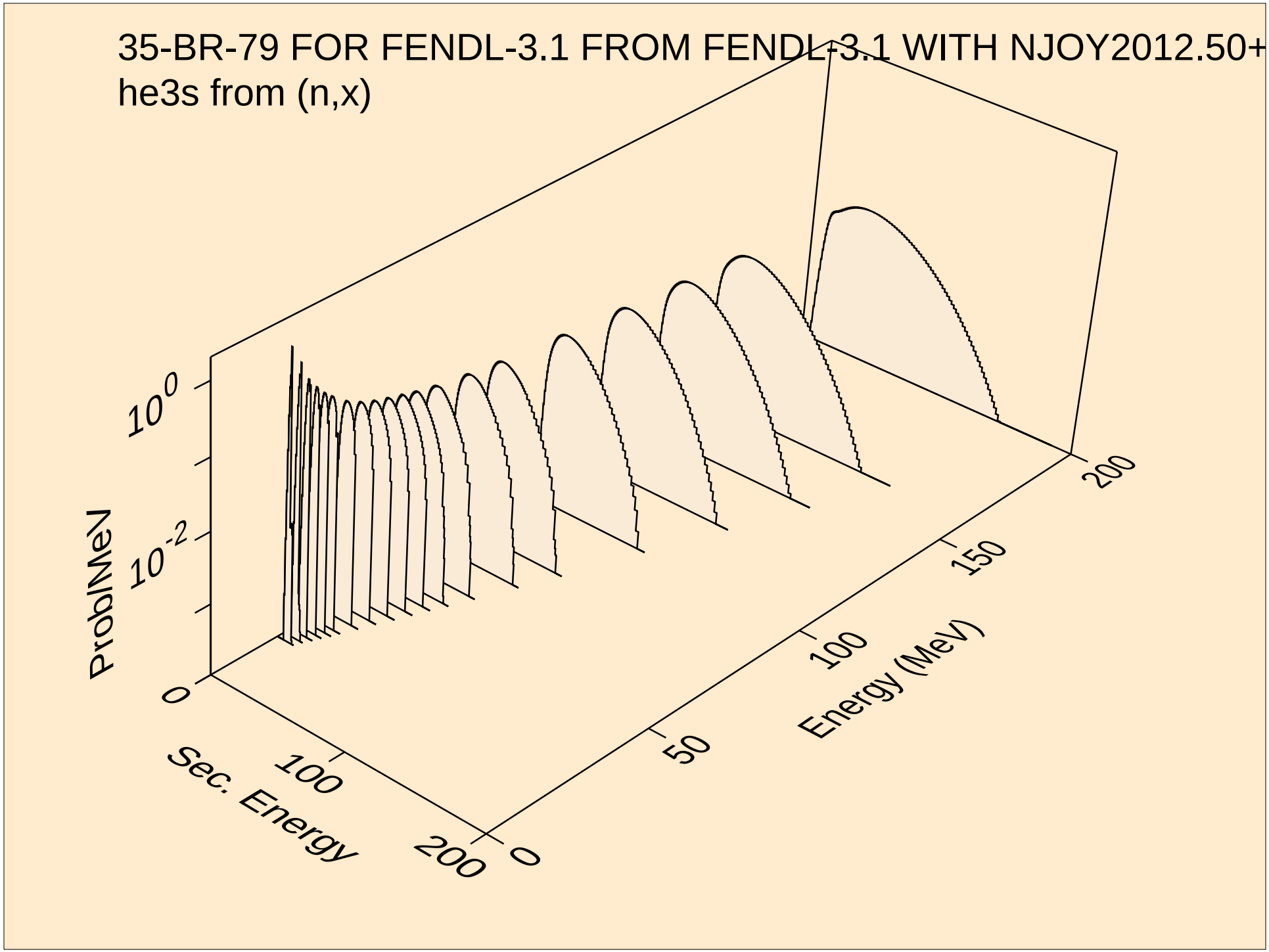

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
0
50
100
150
200

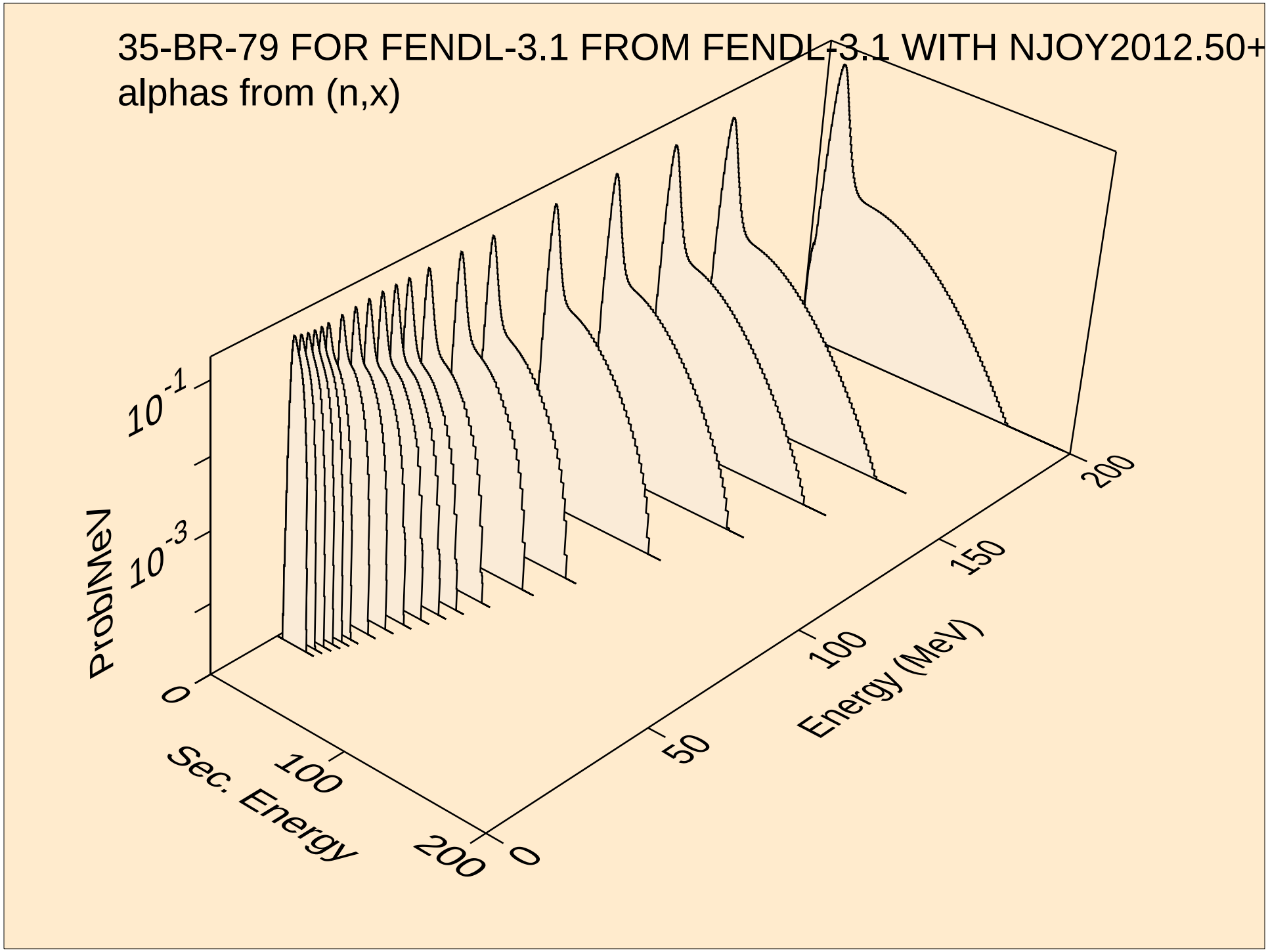

35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
Particle production cross sections
Cross section (barns)
Energy (MeV)
1.0
0.8
0.6
0.4
0.2
0.0
20
40
60
80
100
120
140
160
180
200
protons
deuterons
tritons
he-3
alphas


35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
protons from (n,x)
Prob/MeV
10^0
10^-2
10^-4
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)


35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
deuterons from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)


35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
tritons from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)


35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
he3s from (n,x)
Prob/MeV
10^0
10^-2
0
Sec. Energy
100
200
0
50
100
Energy (MeV)
150
200


35-BR-79 FOR FENDL-3.1 FROM FENDL-3.1 WITH NJOY2012.50+
alphas from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)