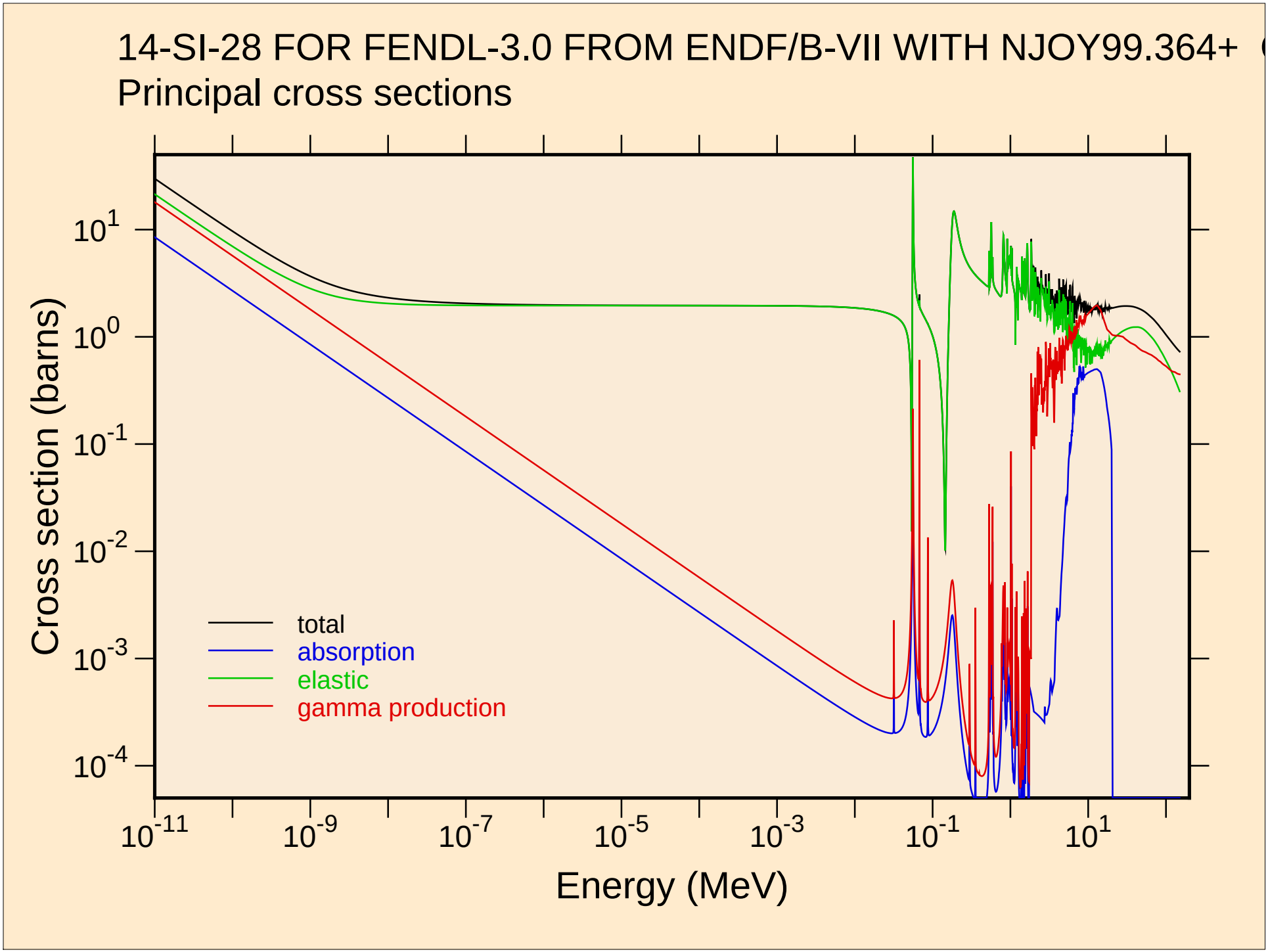
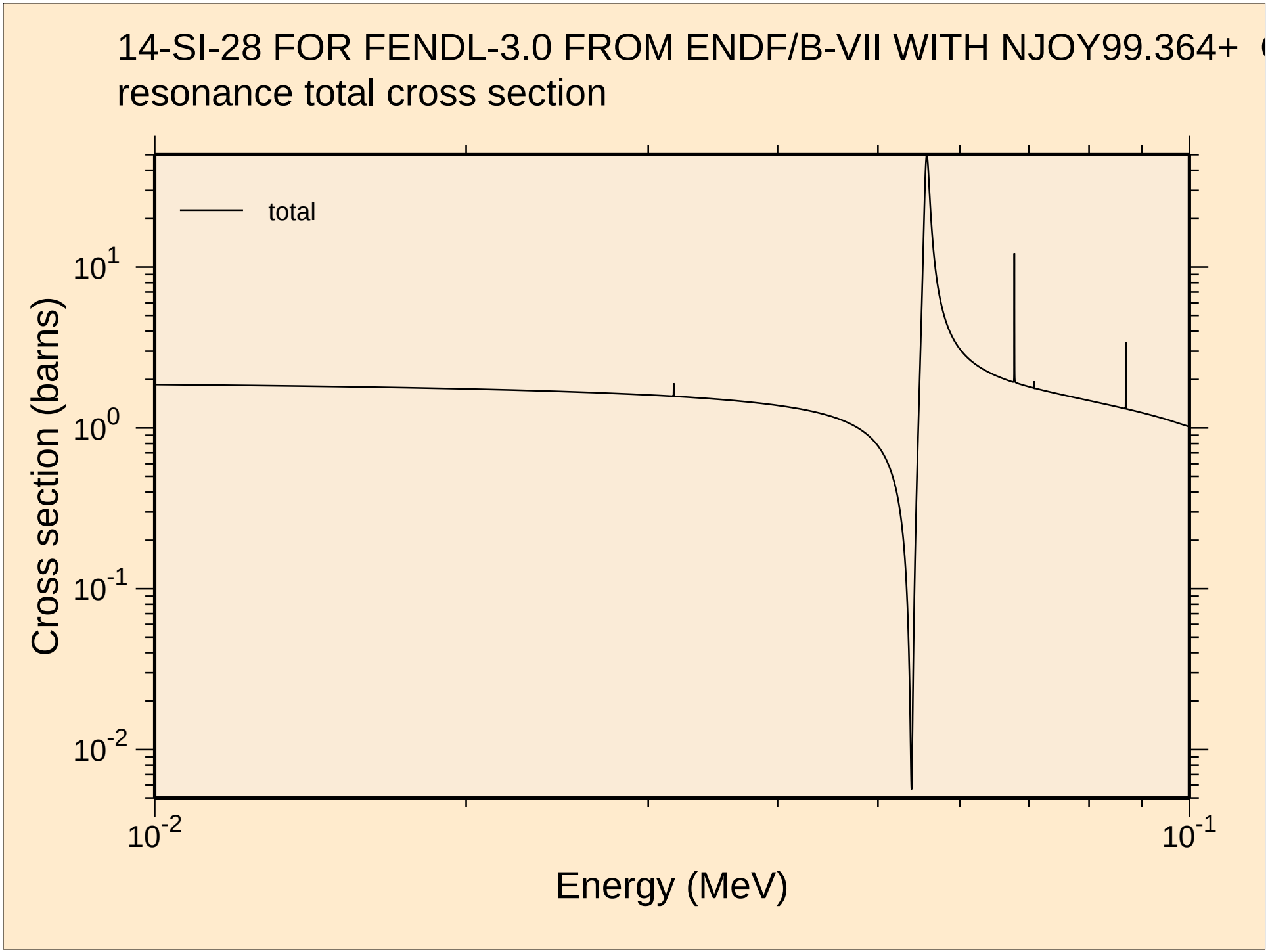
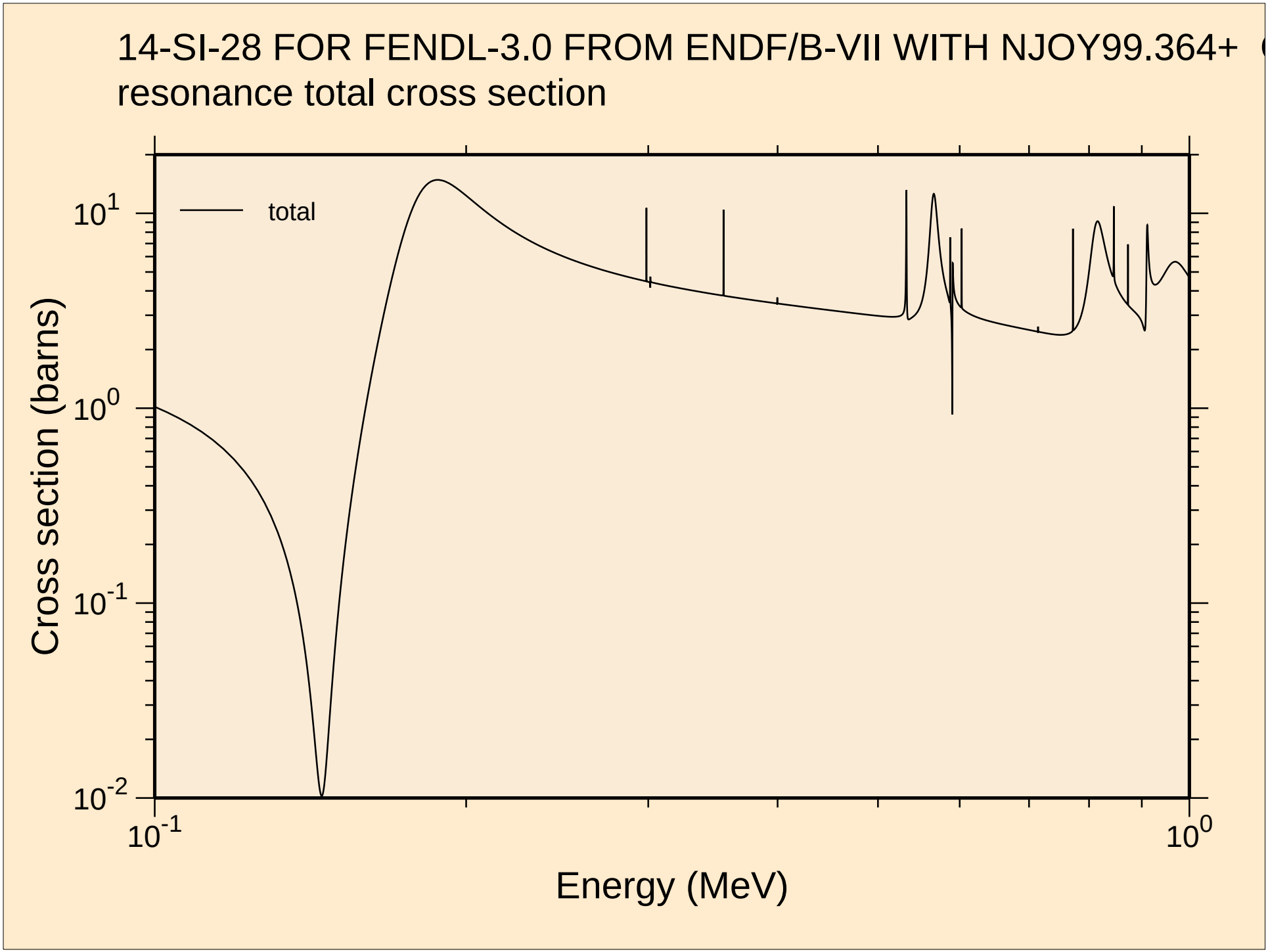
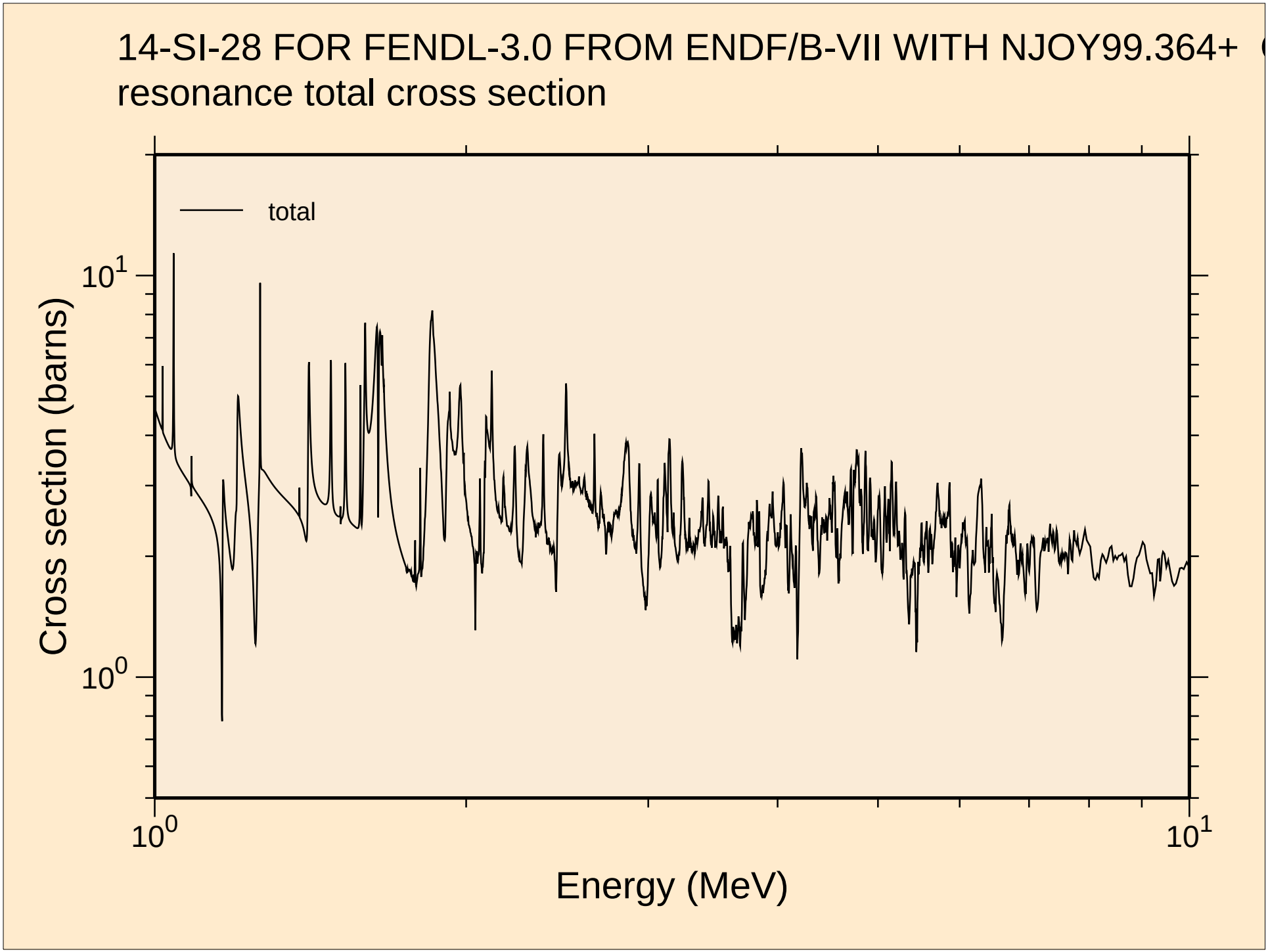
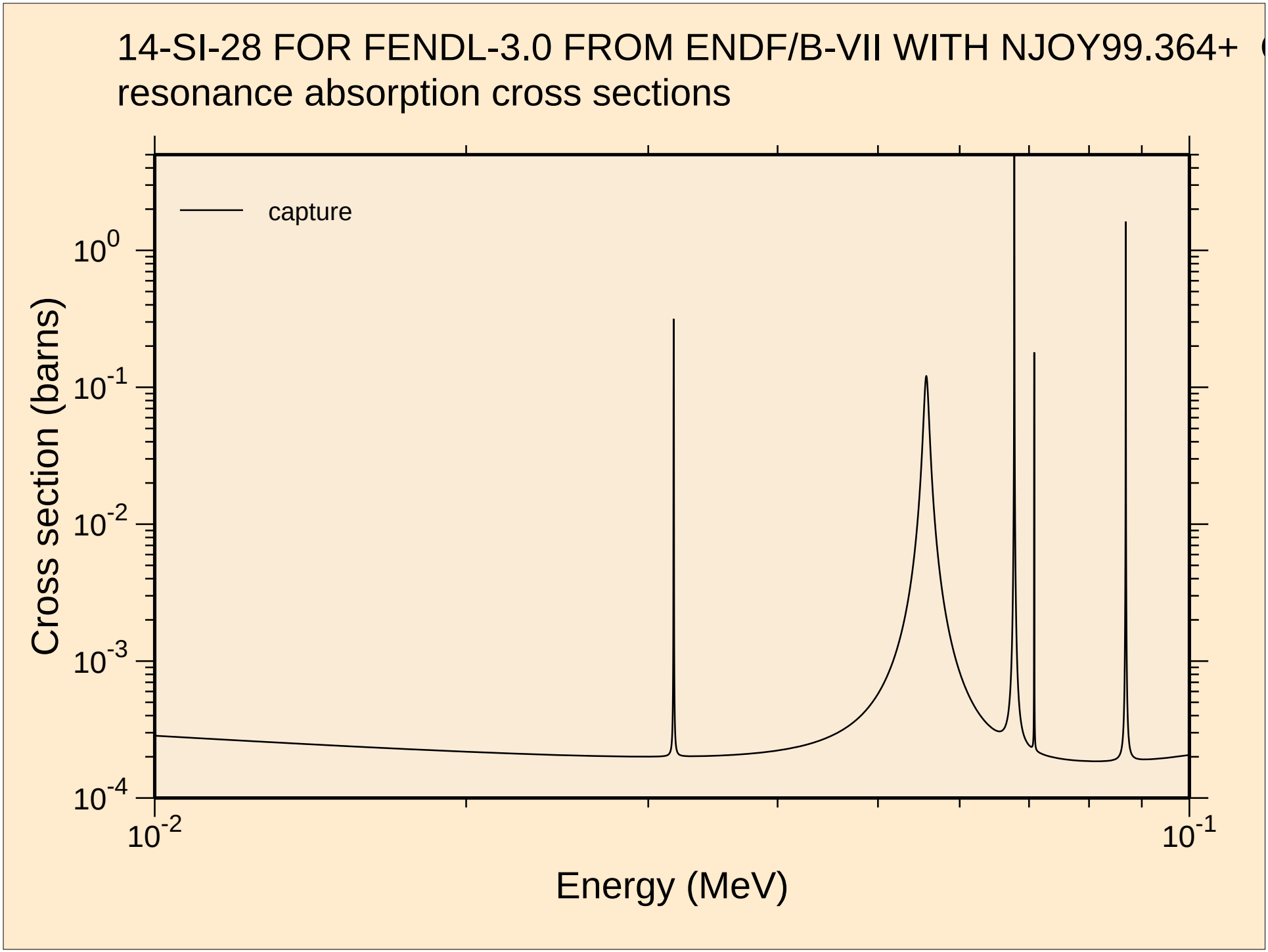
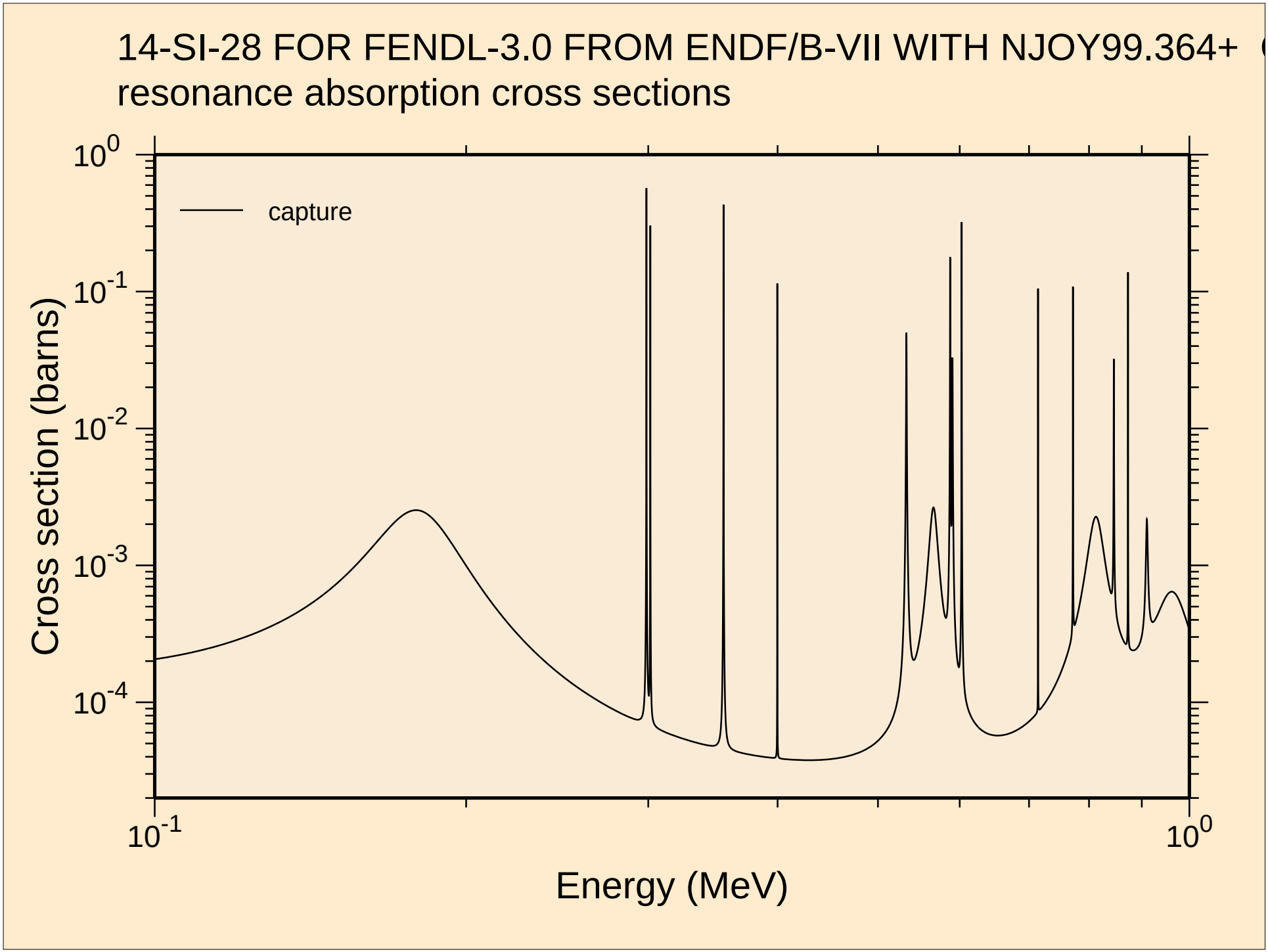

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Principal cross sections
Cross section (barns)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
total
absorption
elastic
gamma production
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

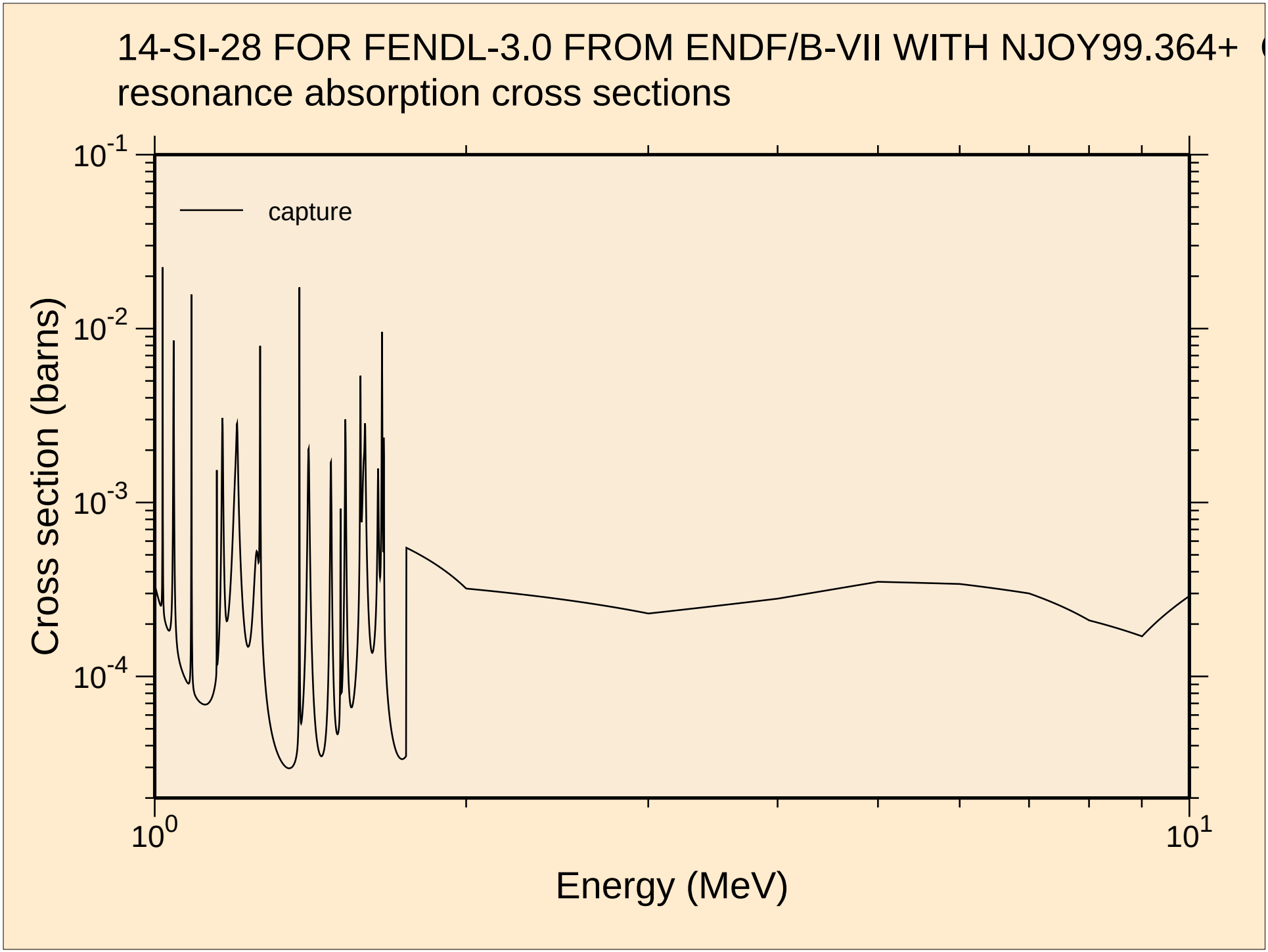

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^1
10^0
10^-1
10^-2
10^-2
10^-1
Energy (MeV)

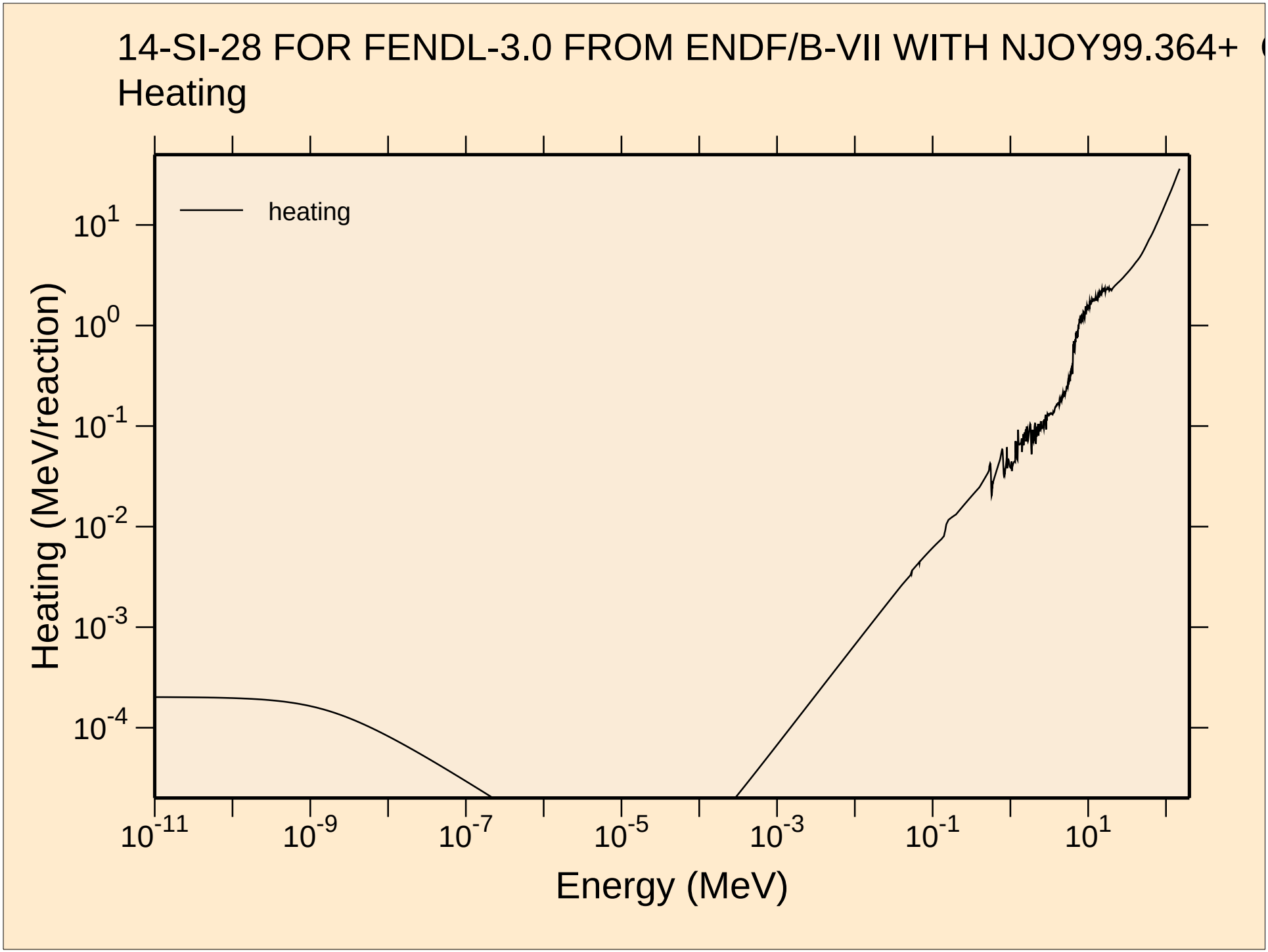

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-1}
10^{0}
Energy (MeV)

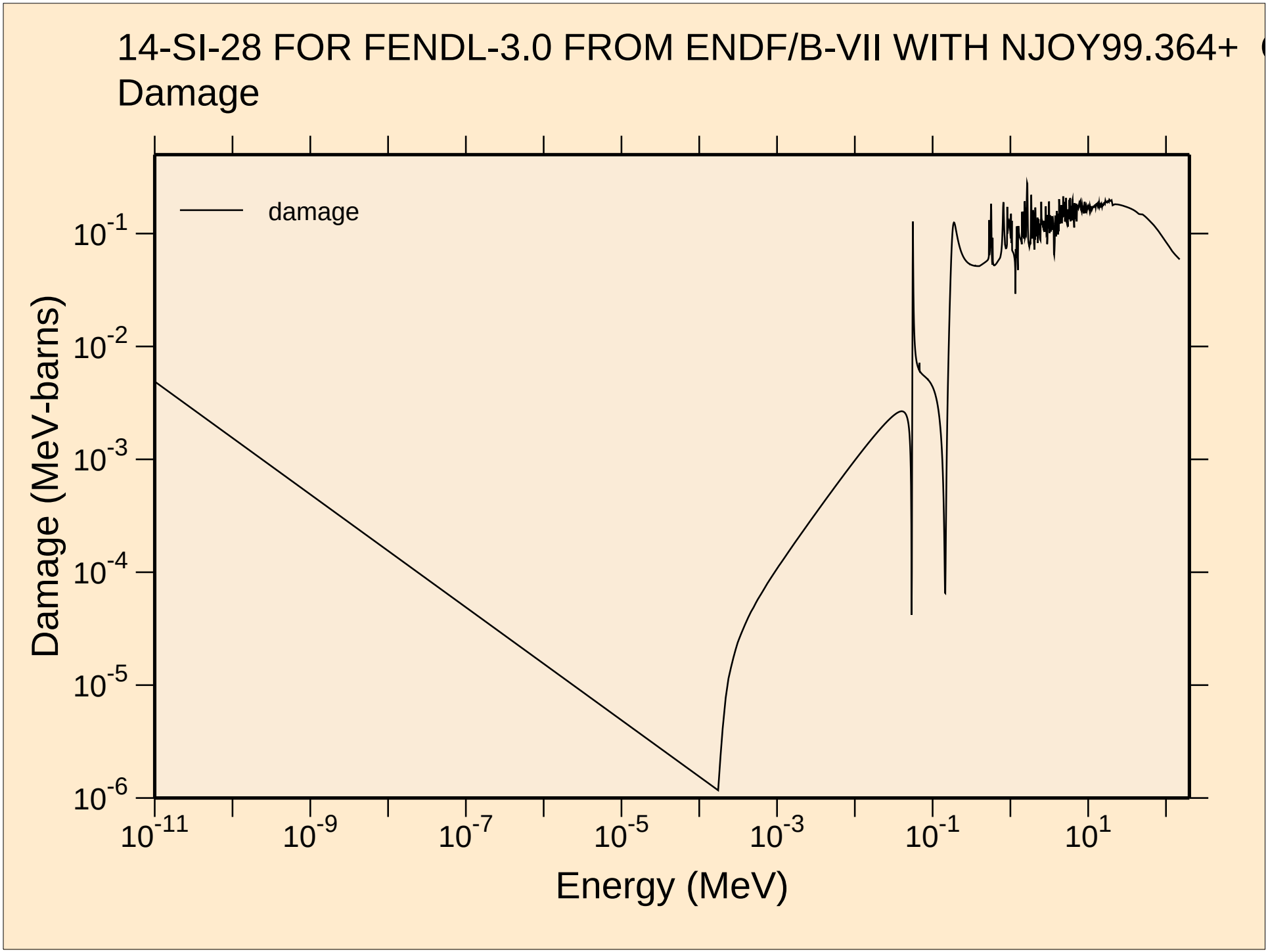

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^1
10^0
10^0
10^1
Energy (MeV)

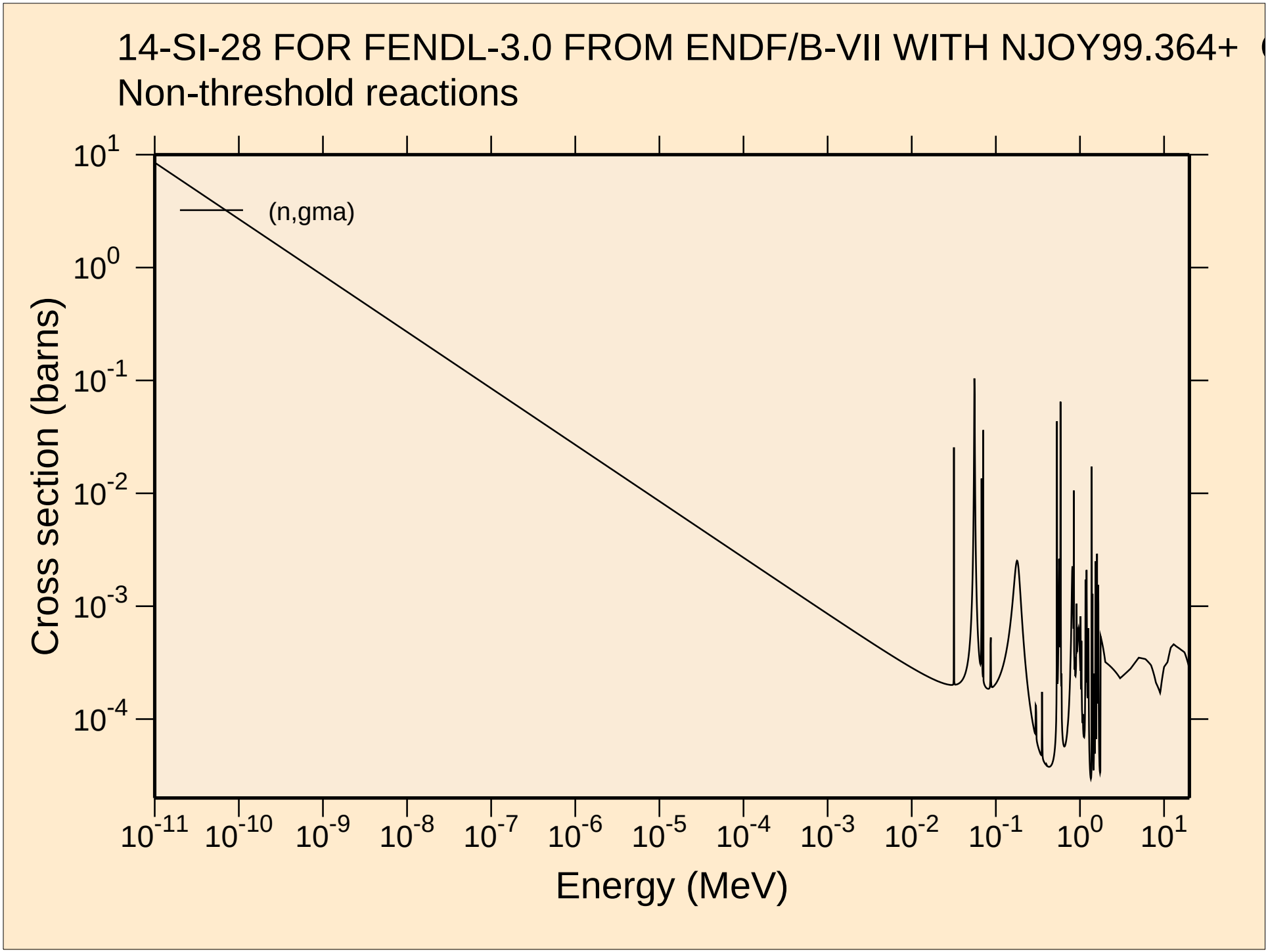

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^0
10^-1
10^-2
10^-3
10^-4
10^-2
10^-1
Energy (MeV)

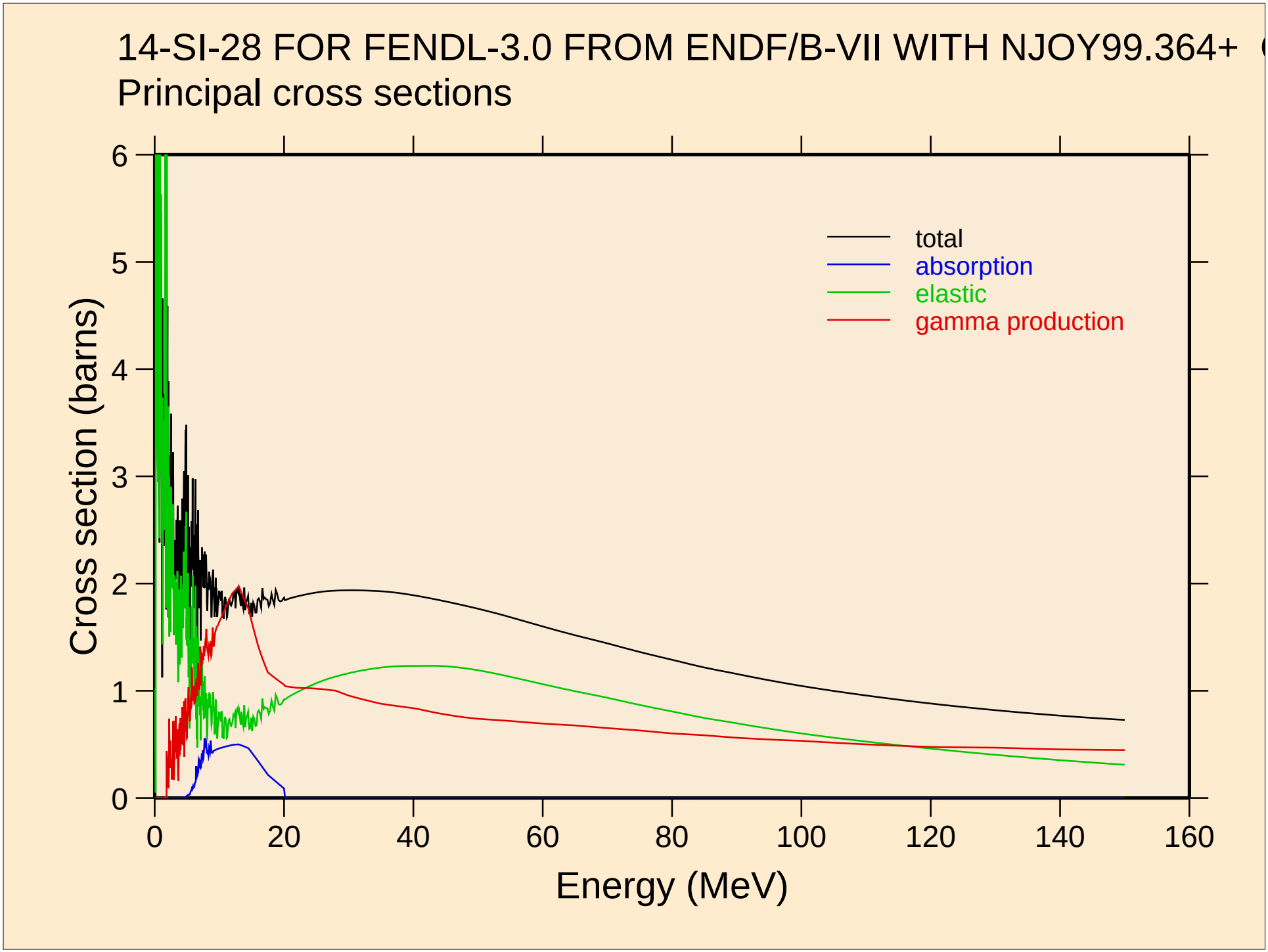

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-1}
10^{0}
Energy (MeV)

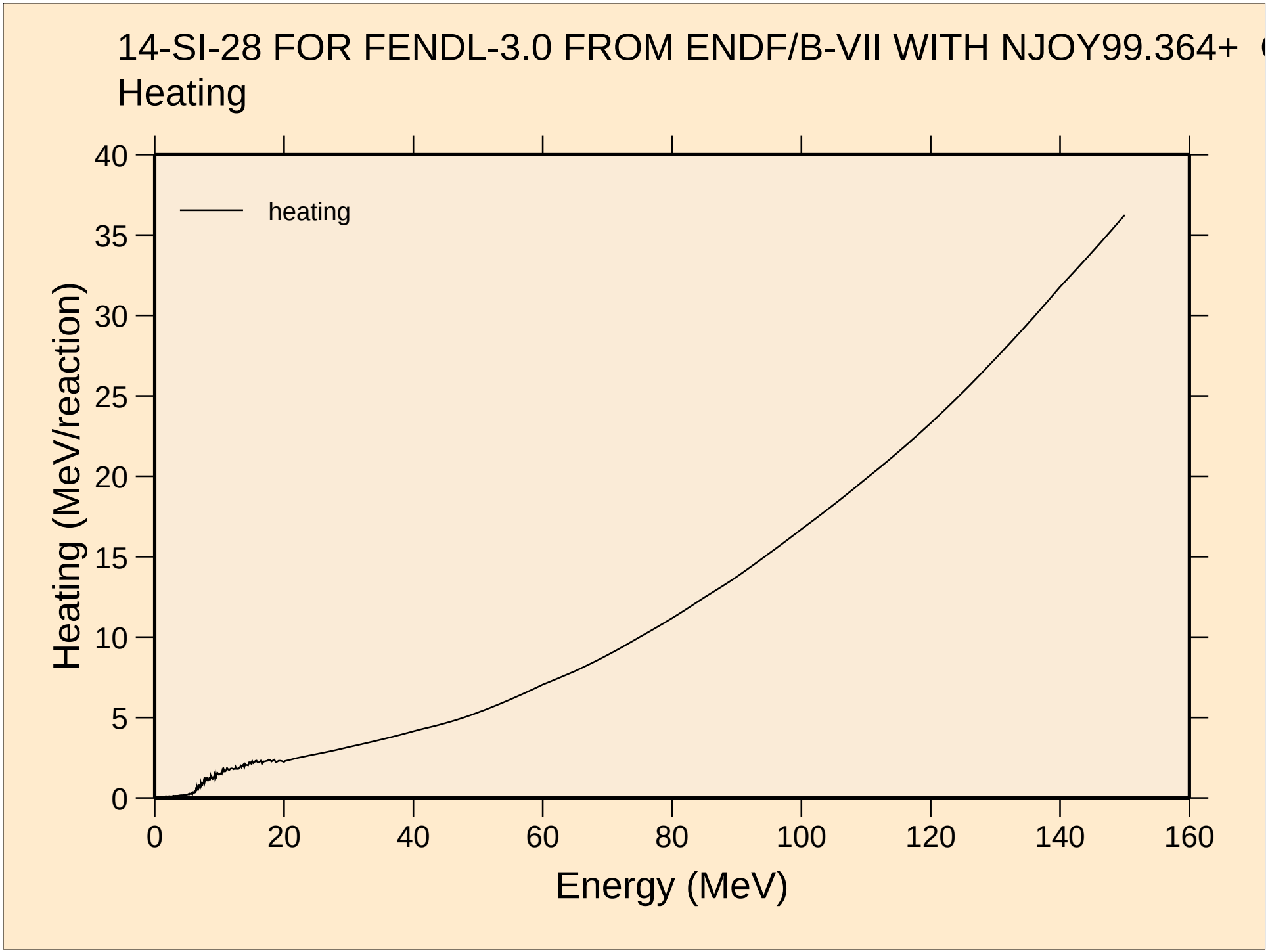

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10-1
10-2
10-3
10-4
100
101
Energy (MeV)

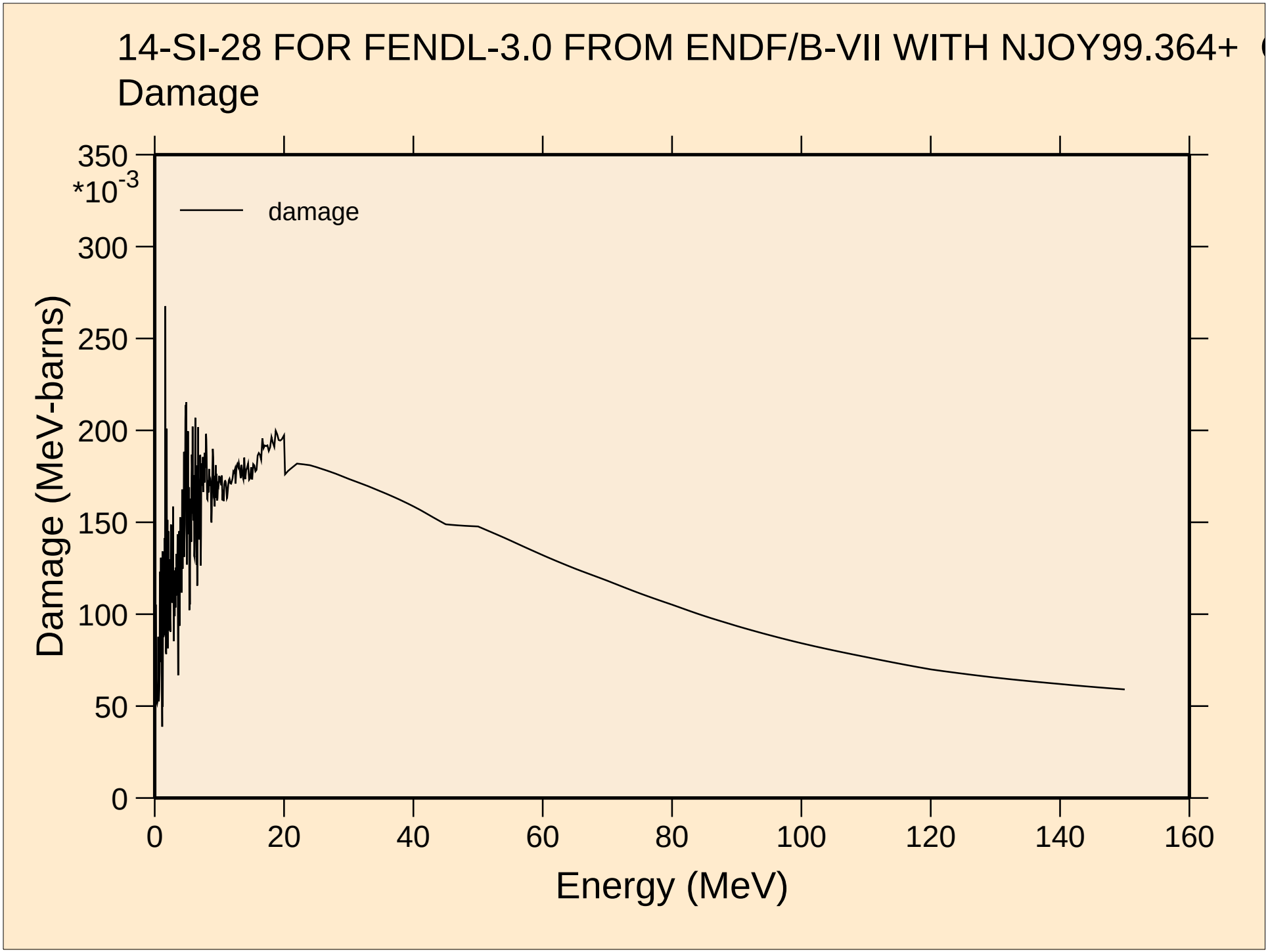

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Heating
heating
Heating (MeV/reaction)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

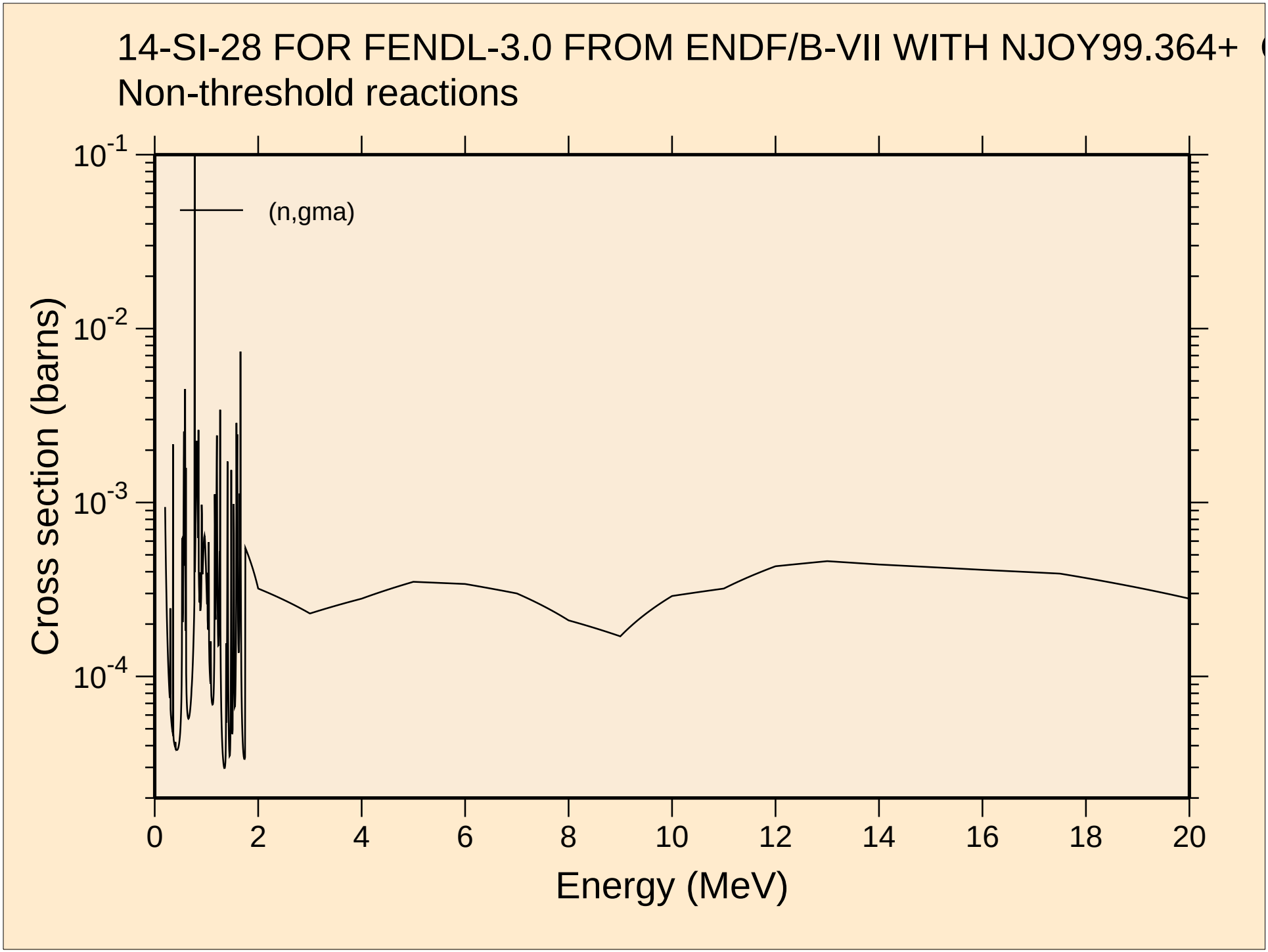

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Damage
damage
Damage (MeV-barns)
10-1
10-2
10-3
10-4
10-5
10-6
10-11
10-9
10-7
10-5
10-3
10-1
101
Energy (MeV)

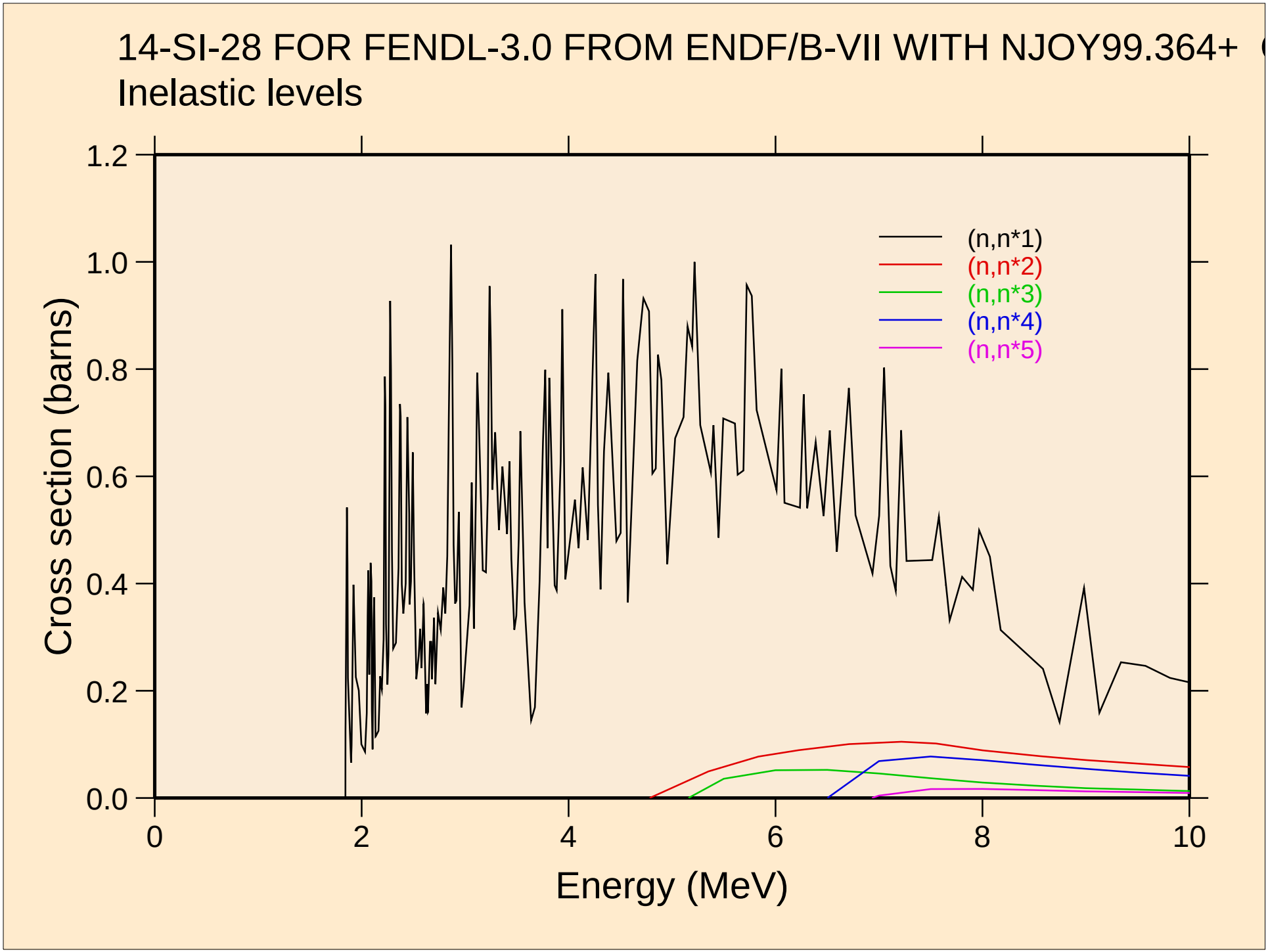

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Non-threshold reactions
(n,gma)
Cross section (barns)
Energy (MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

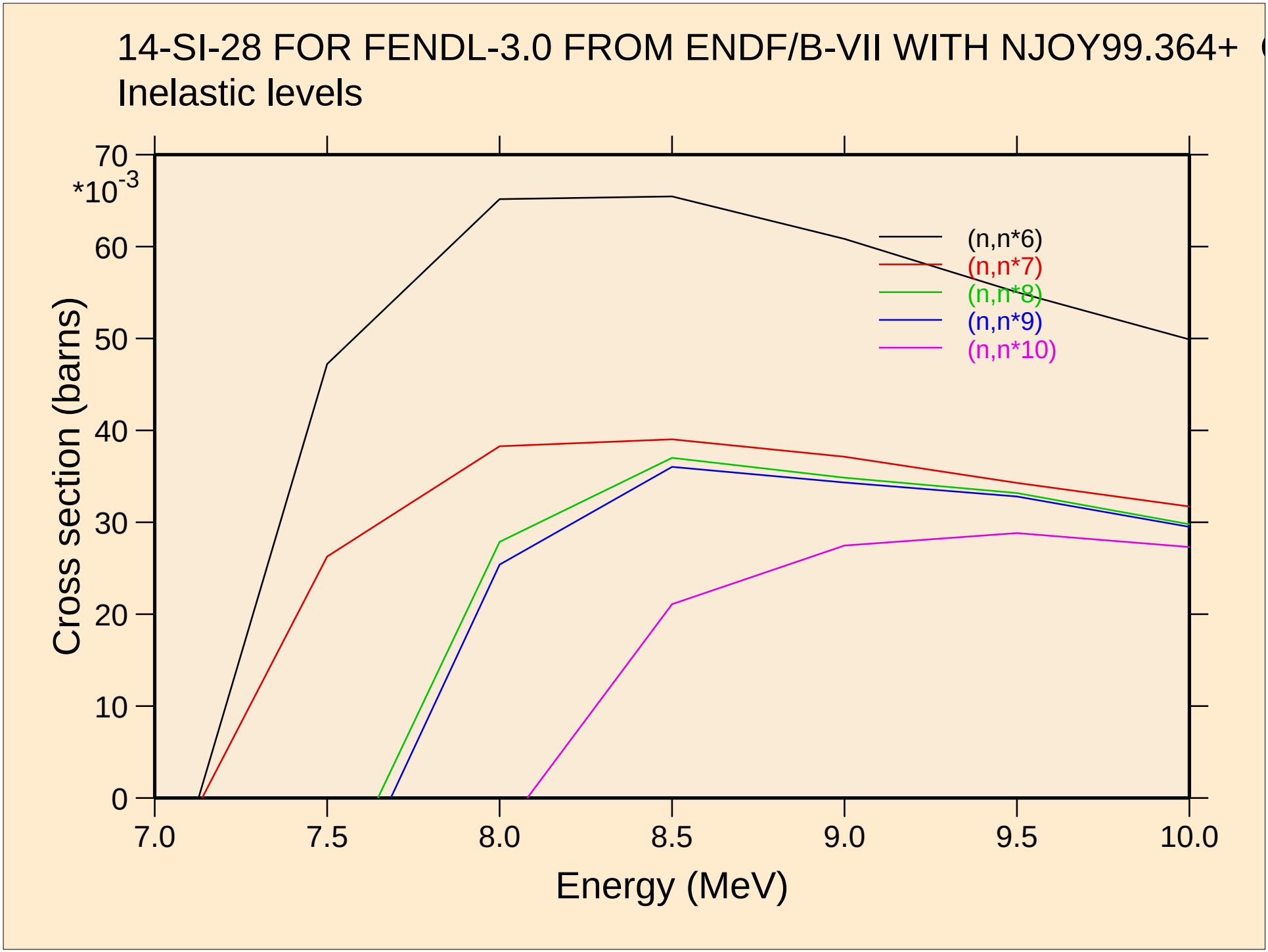

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Principal cross sections
Cross section (barns)
Energy (MeV)
0
1
2
3
4
5
6
0
20
40
60
80
100
120
140
160
total
absorption
elastic
gamma production

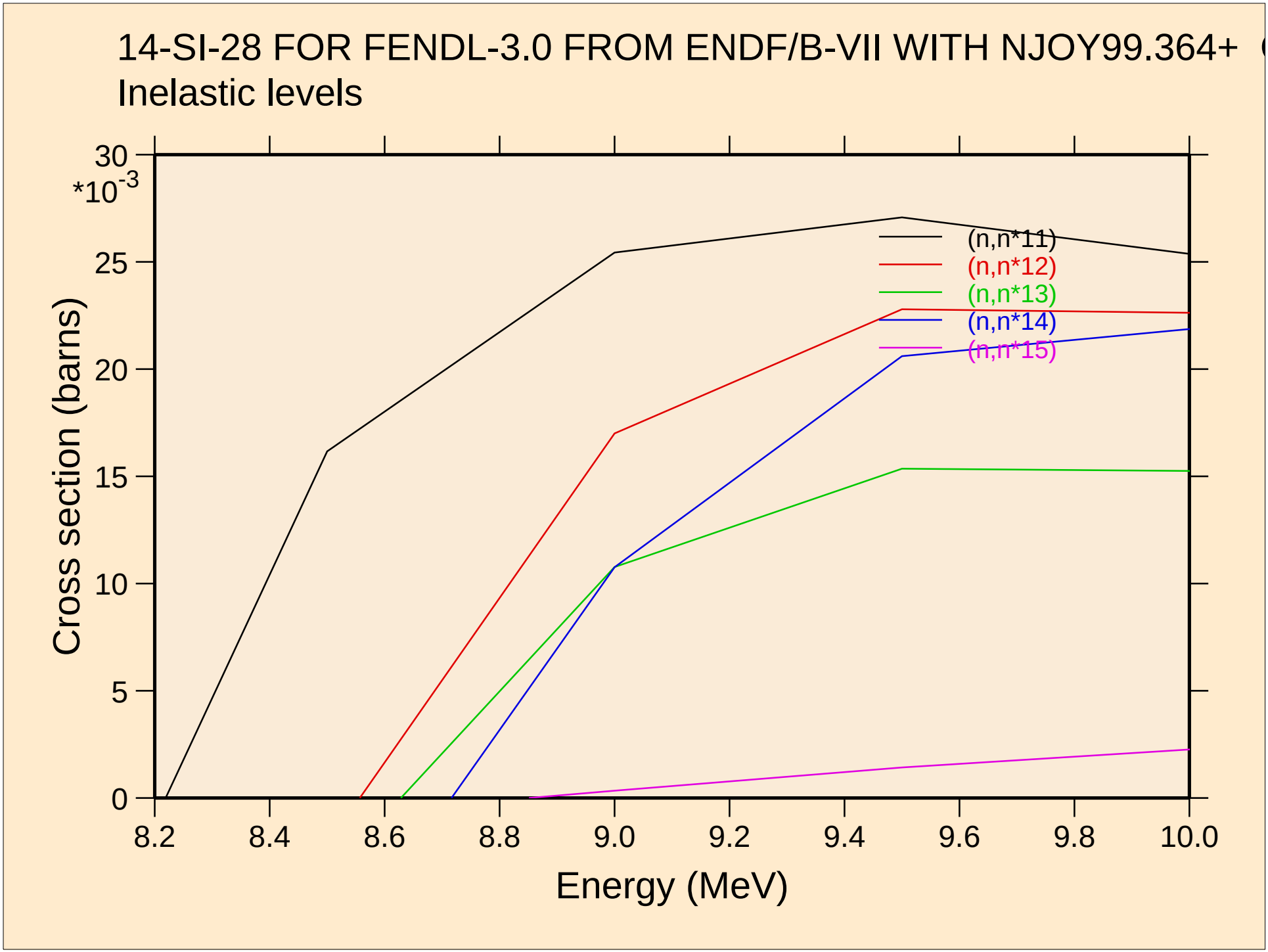

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
5
10
15
20
25
30
35
40
0
20
40
60
80
100
120
140
160

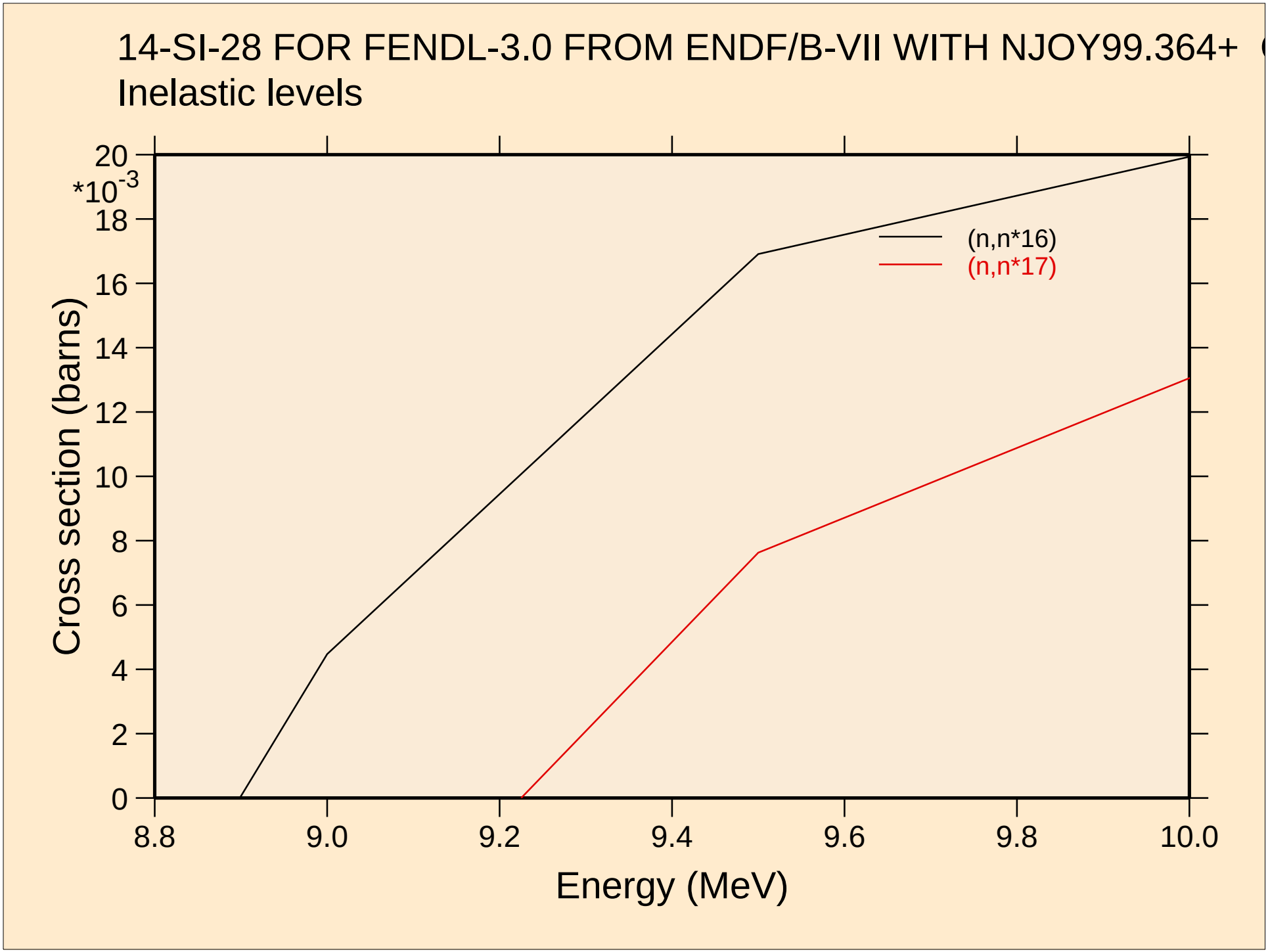

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Damage
damage
*10-3
350
300
250
200
150
100
50
0
Damage (MeV-barns)
0
20
40
60
80
100
120
140
160
Energy (MeV)

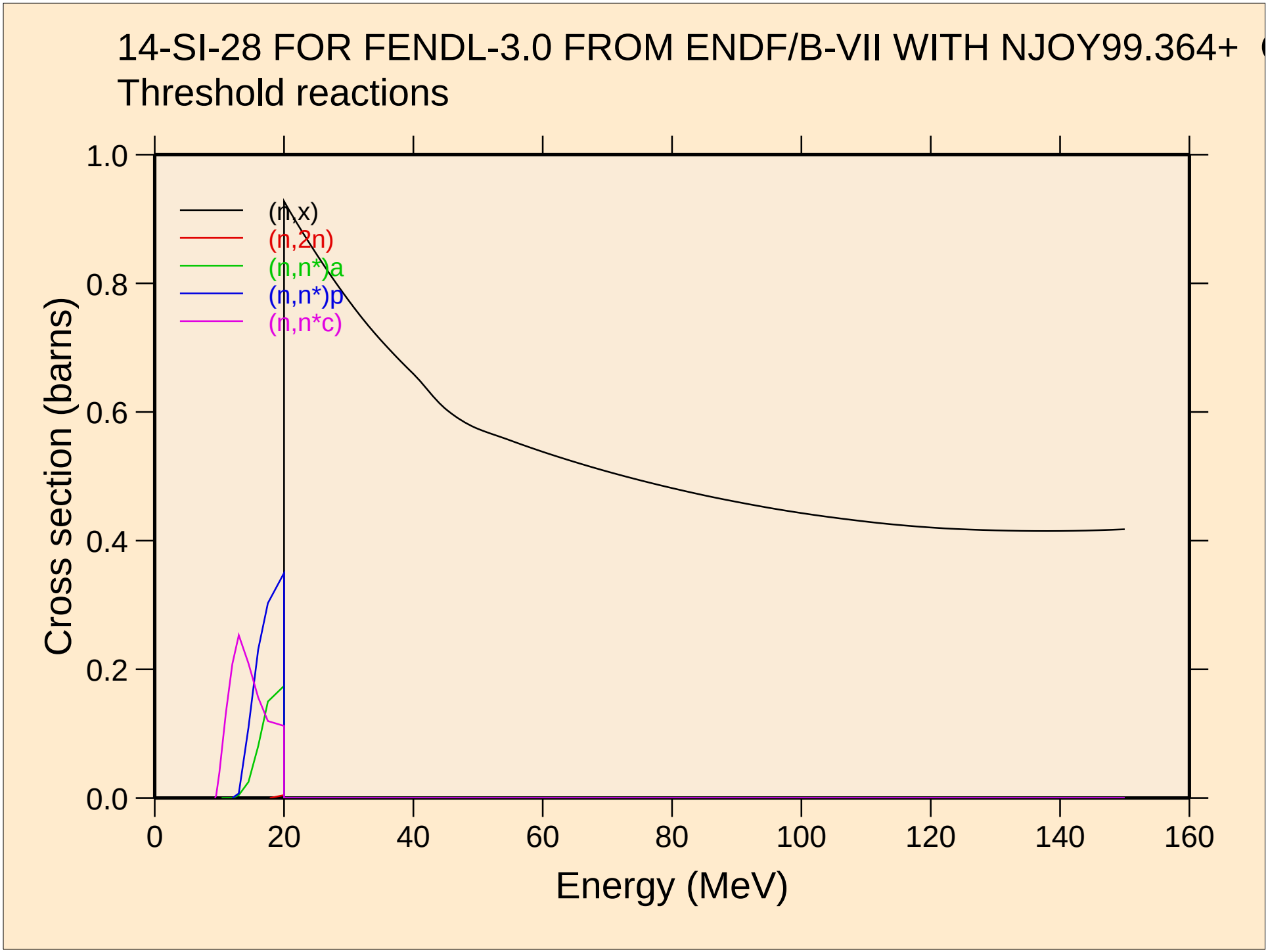

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Non-threshold reactions
(n,gma)
Cross section (barns)
10-1
10-2
10-3
10-4
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

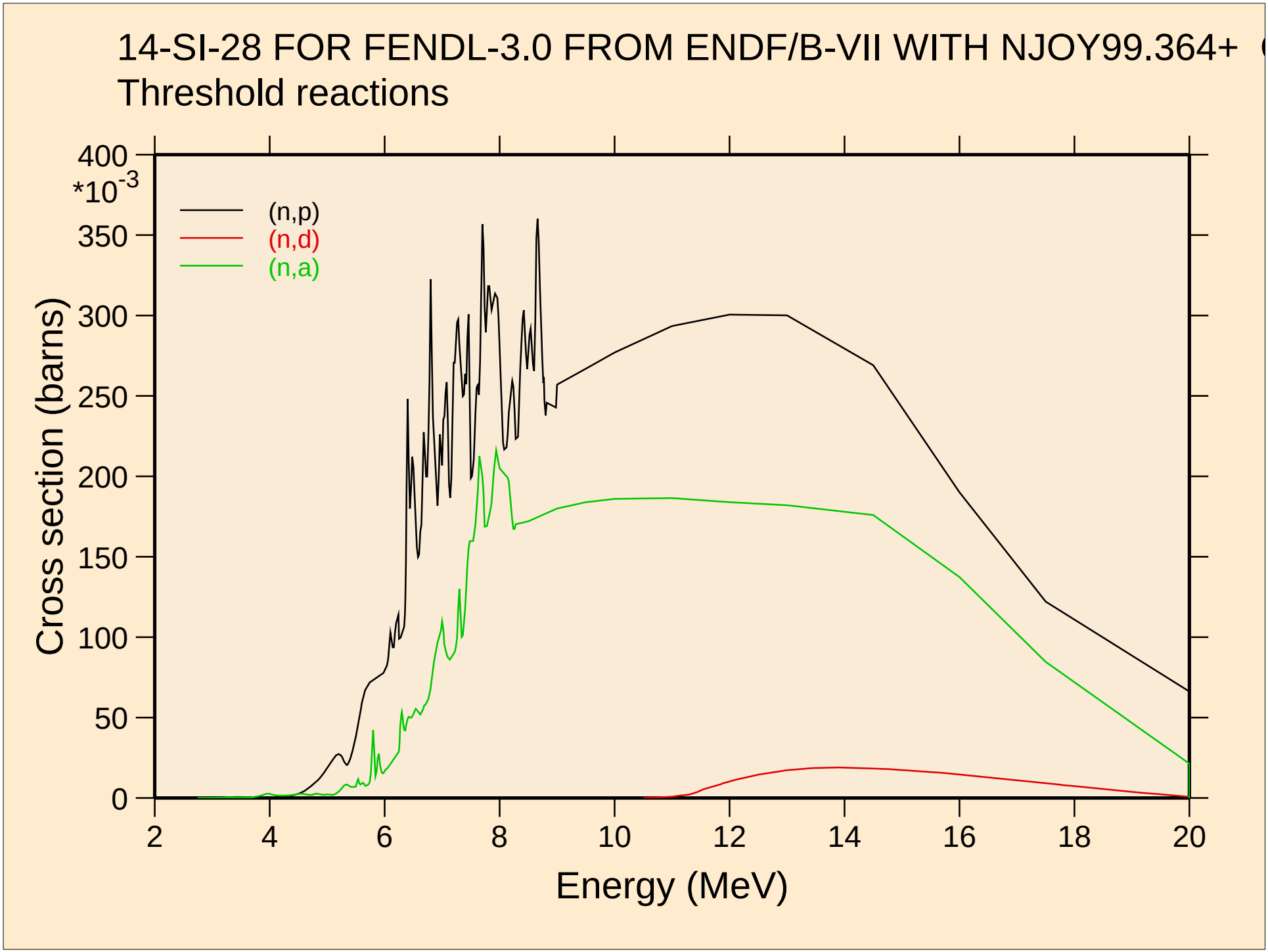

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Inelastic levels
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

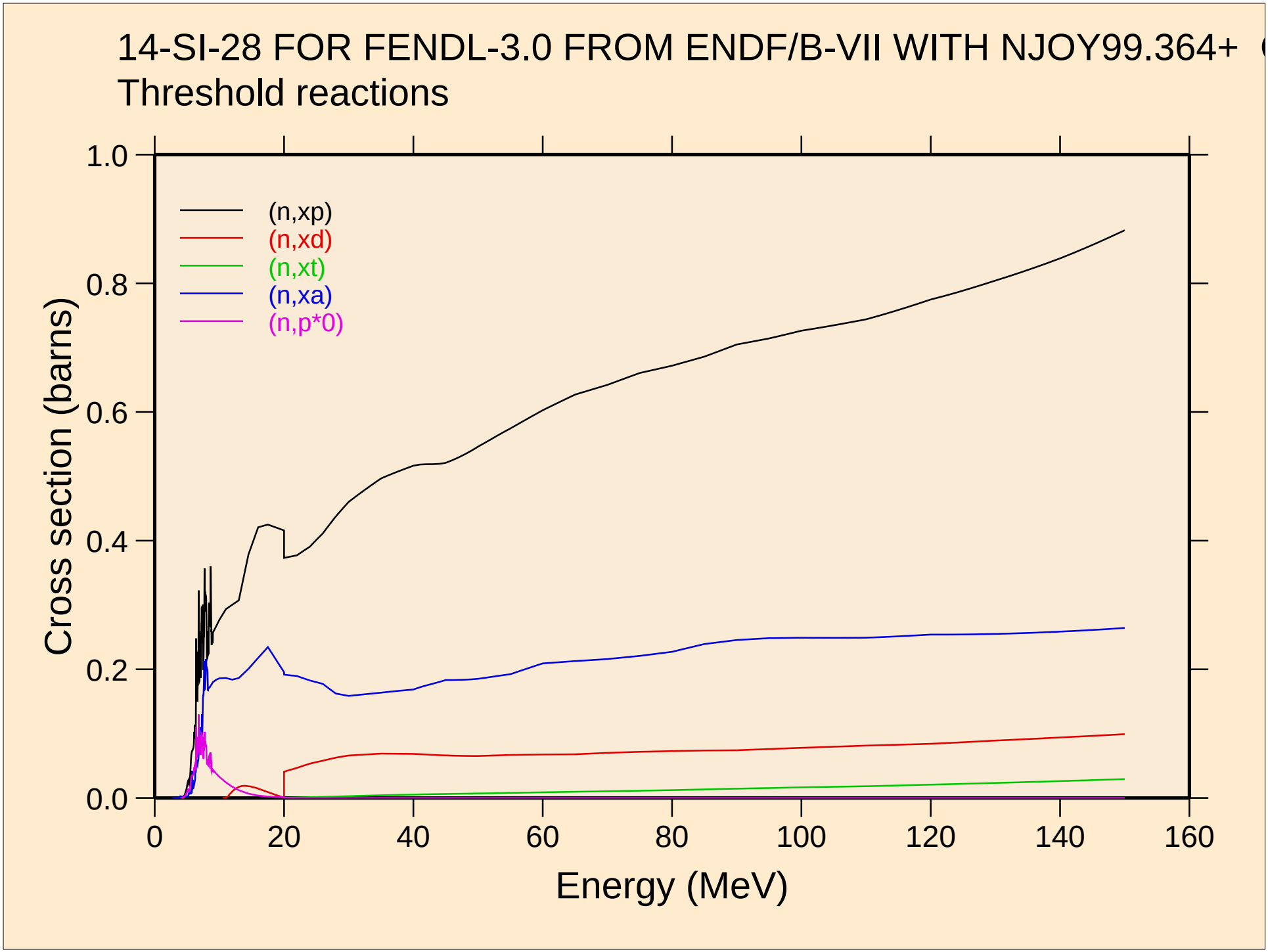

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Inelastic levels
Cross section (barns)
*10-3
70
60
50
40
30
20
10
0
7.0
7.5
8.0
8.5
9.0
9.5
10.0
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

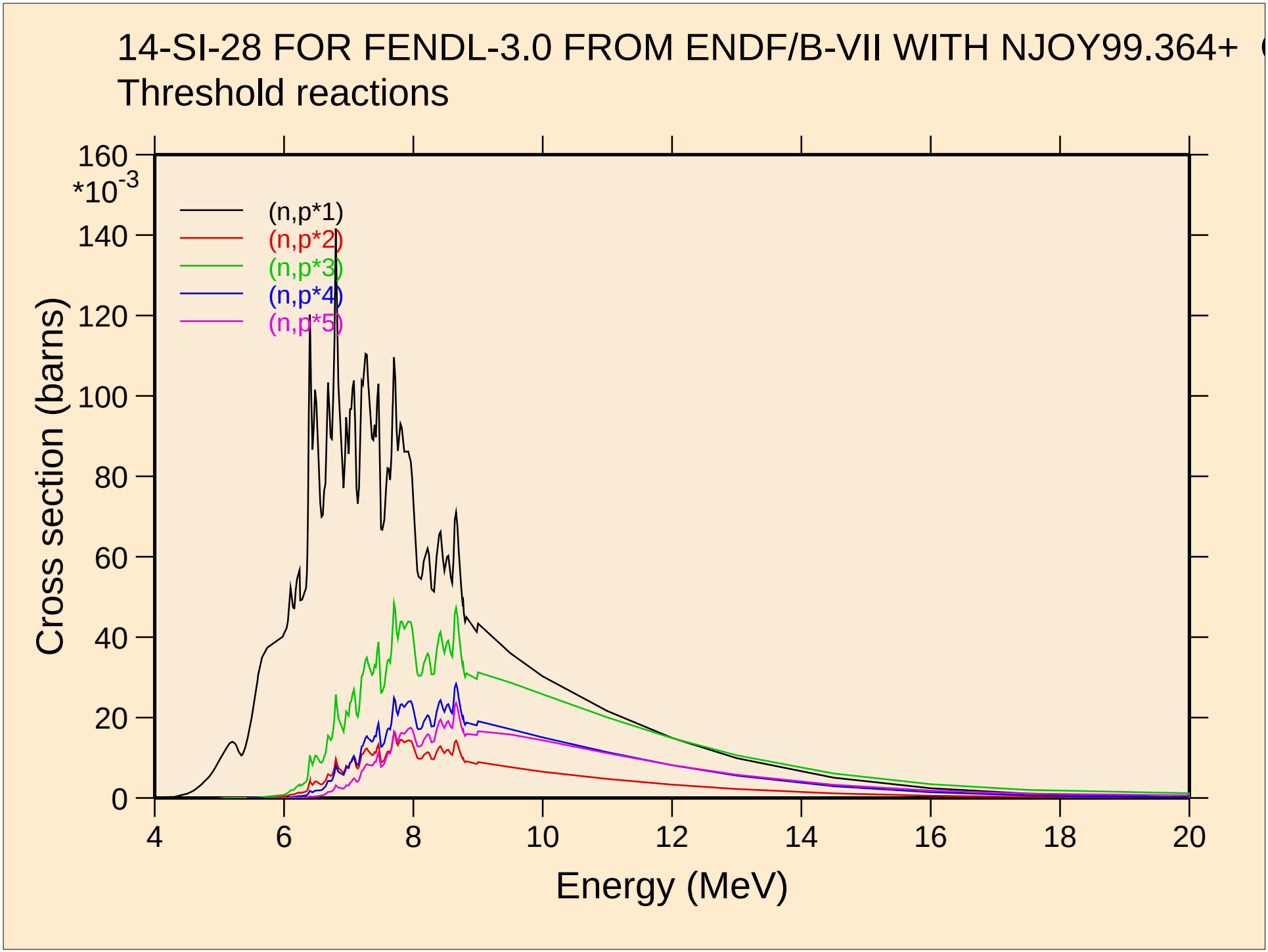

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Inelastic levels
*10-3
30
25
20
15
10
5
0
Cross section (barns)
8.2
8.4
8.6
8.8
9.0
9.2
9.4
9.6
9.8
10.0
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

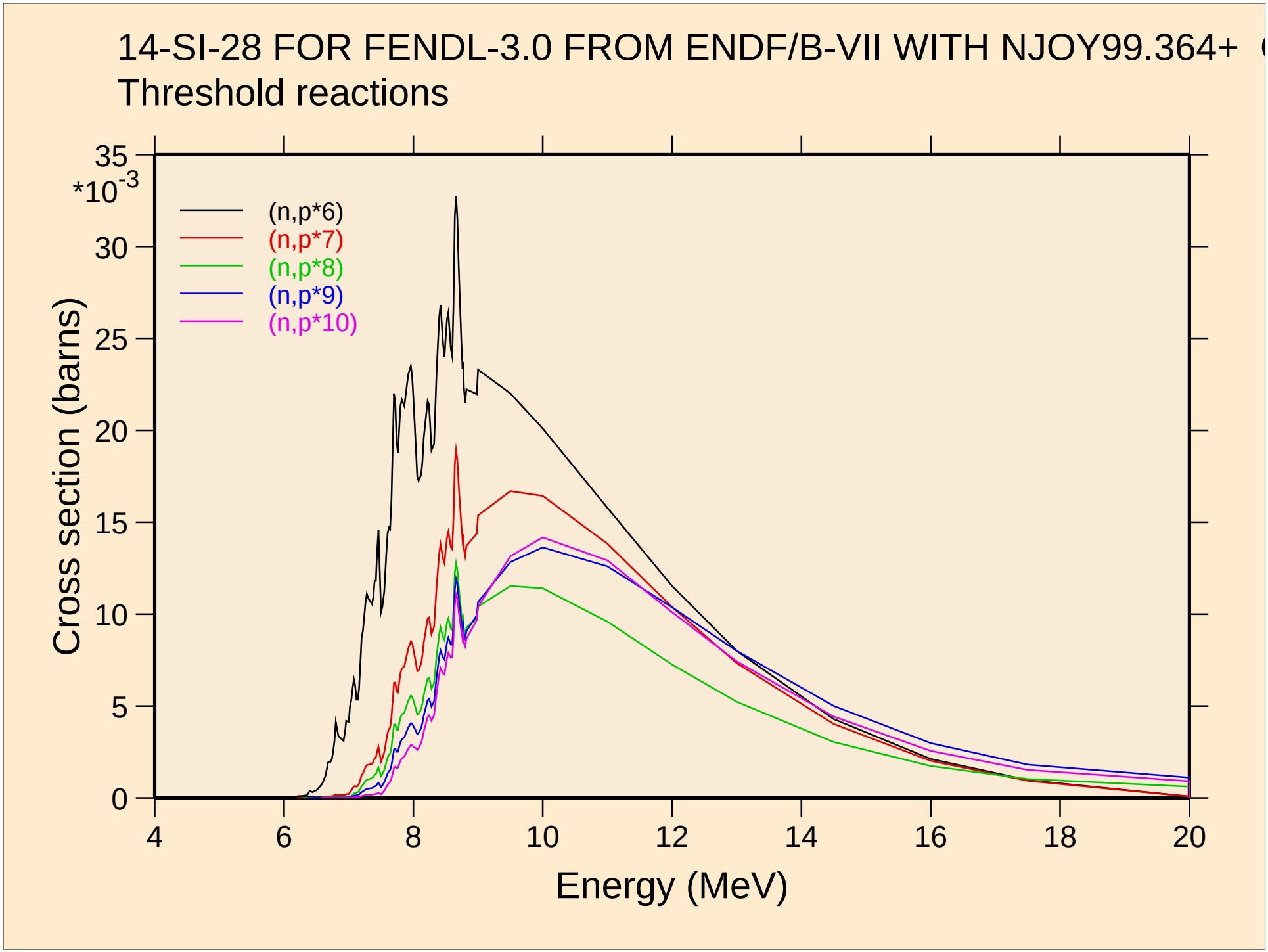

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Inelastic levels
Cross section (barns)
*10-3
20
18
16
14
12
10
8
6
4
2
0
8.8
9.0
9.2
9.4
9.6
9.8
10.0
Energy (MeV)
(n,n*16)
(n,n*17)

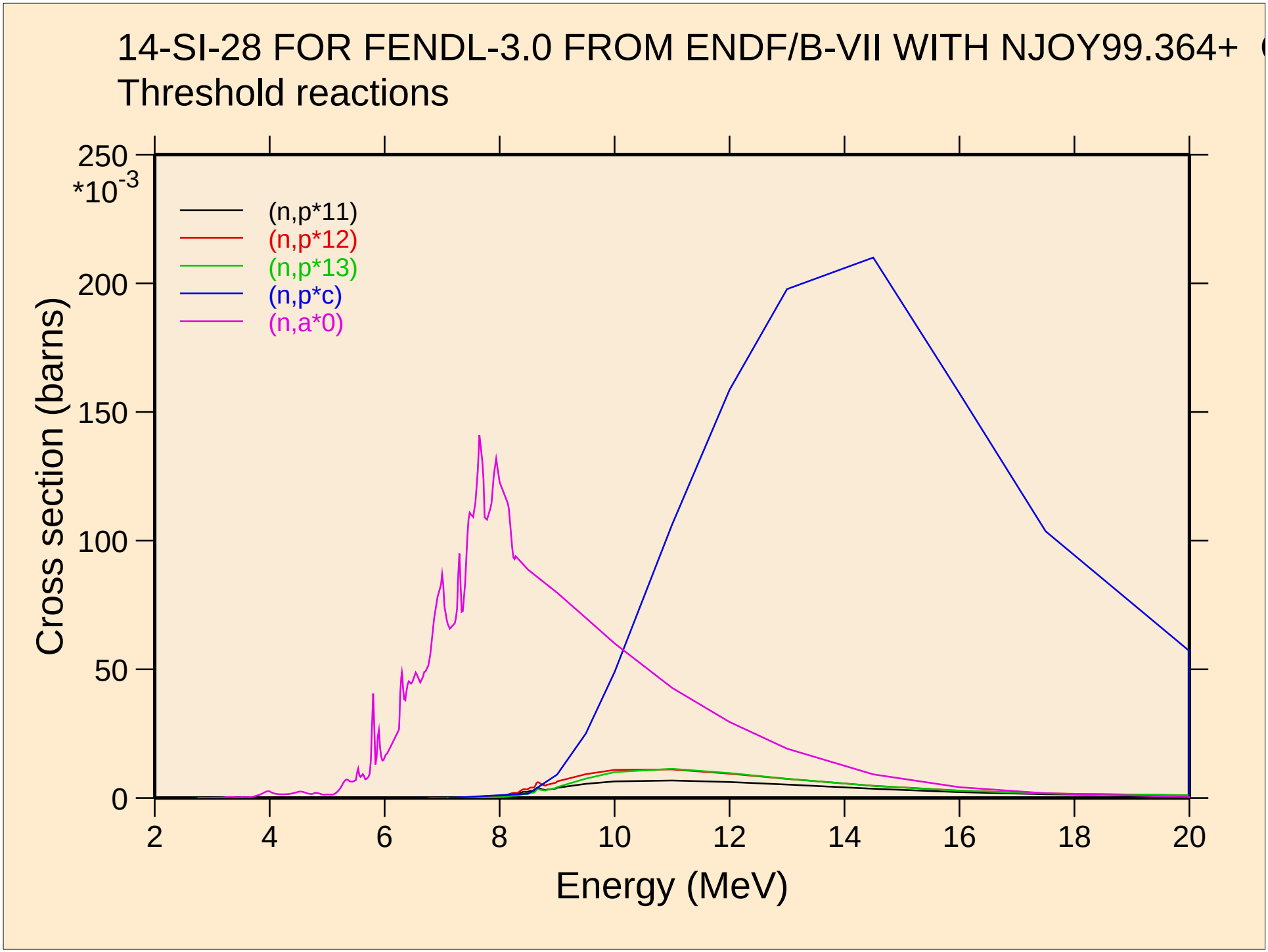

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
(n,x)
(n,2n)
(n,n*)a
(n,n*)p
(n,n*c)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
120
140
160

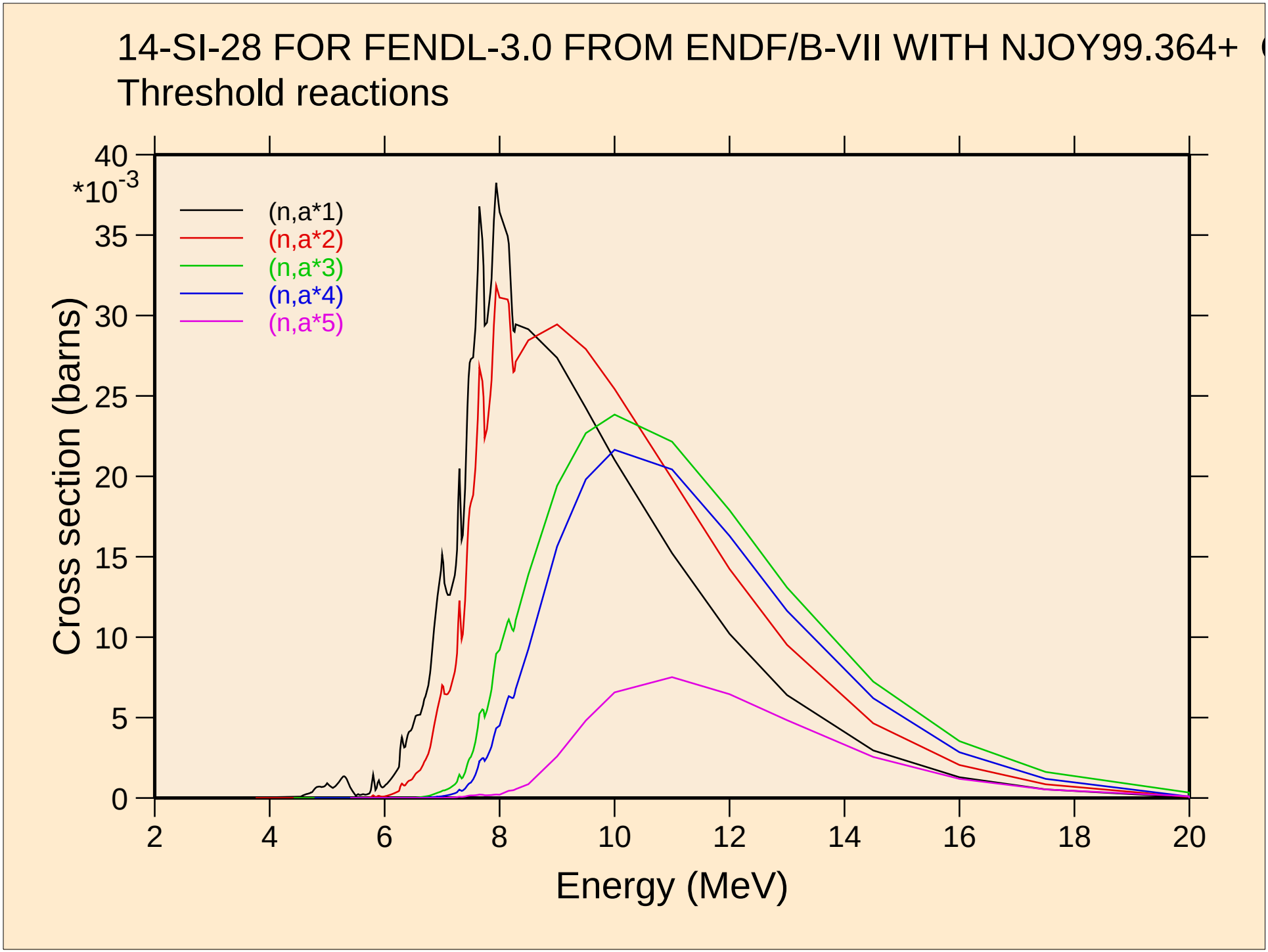

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
*10-3
(n,p)
(n,d)
(n,a)
Cross section (barns)
Energy (MeV)
0
50
100
150
200
250
300
350
400
2
4
6
8
10
12
14
16
18
20

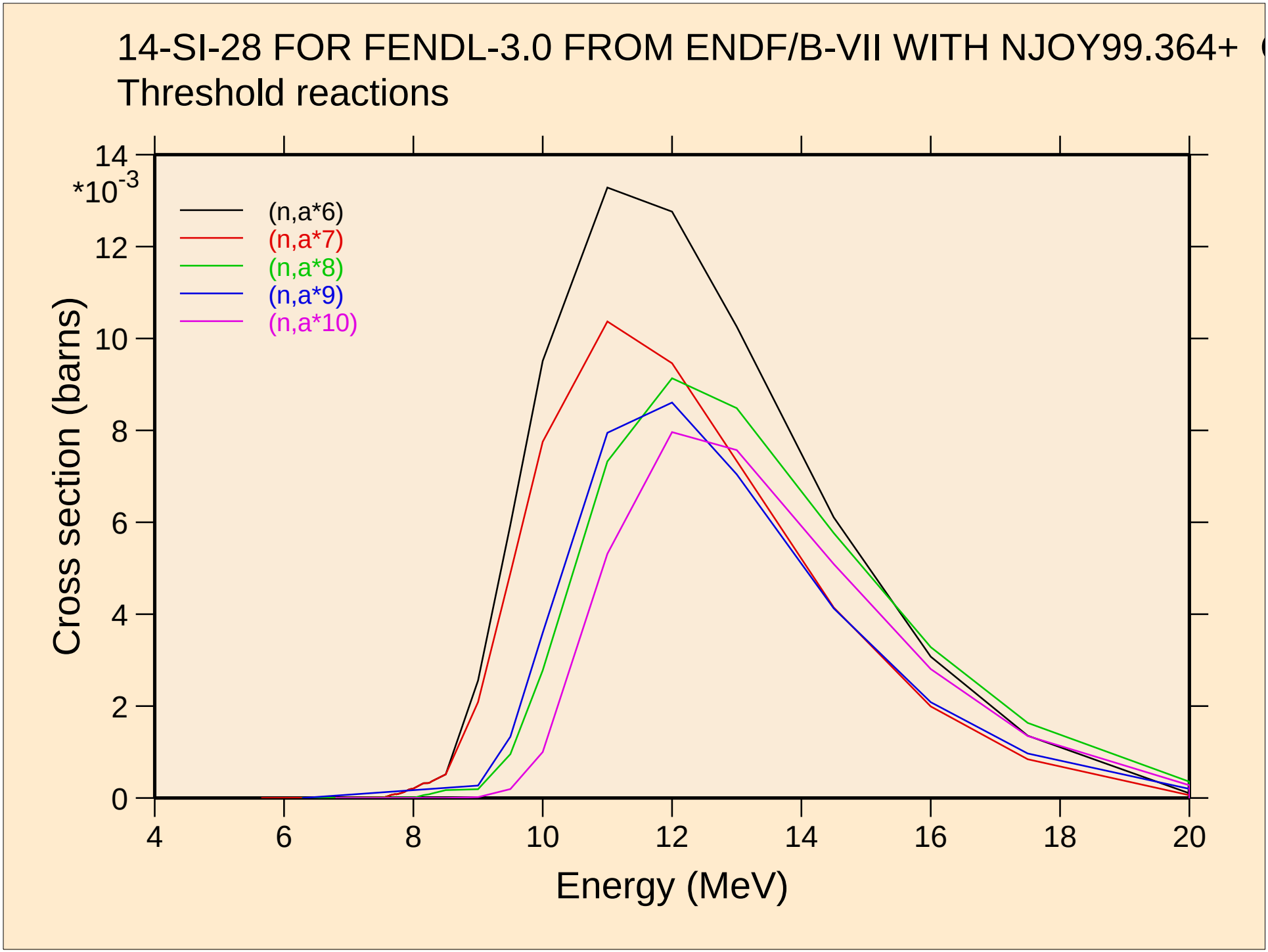

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
(n,xp)
(n,xd)
(n,xt)
(n,xa)
(n,p*0)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
120
140
160

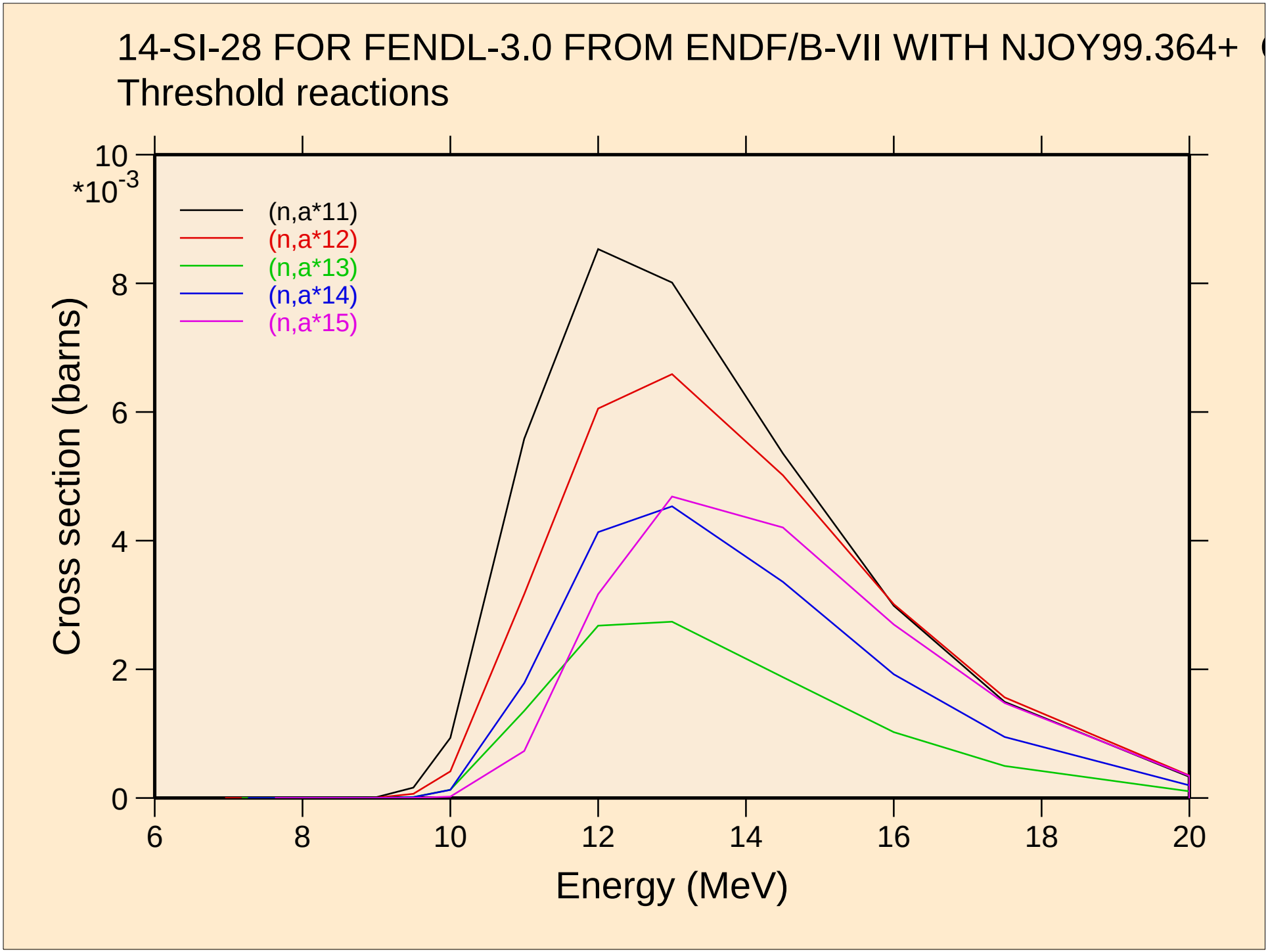

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
*10-3
160
140
120
100
80
60
40
20
0
Cross section (barns)
(n,p*1)
(n,p*2)
(n,p*3)
(n,p*4)
(n,p*5)
4
6
8
10
12
14
16
18
20
Energy (MeV)

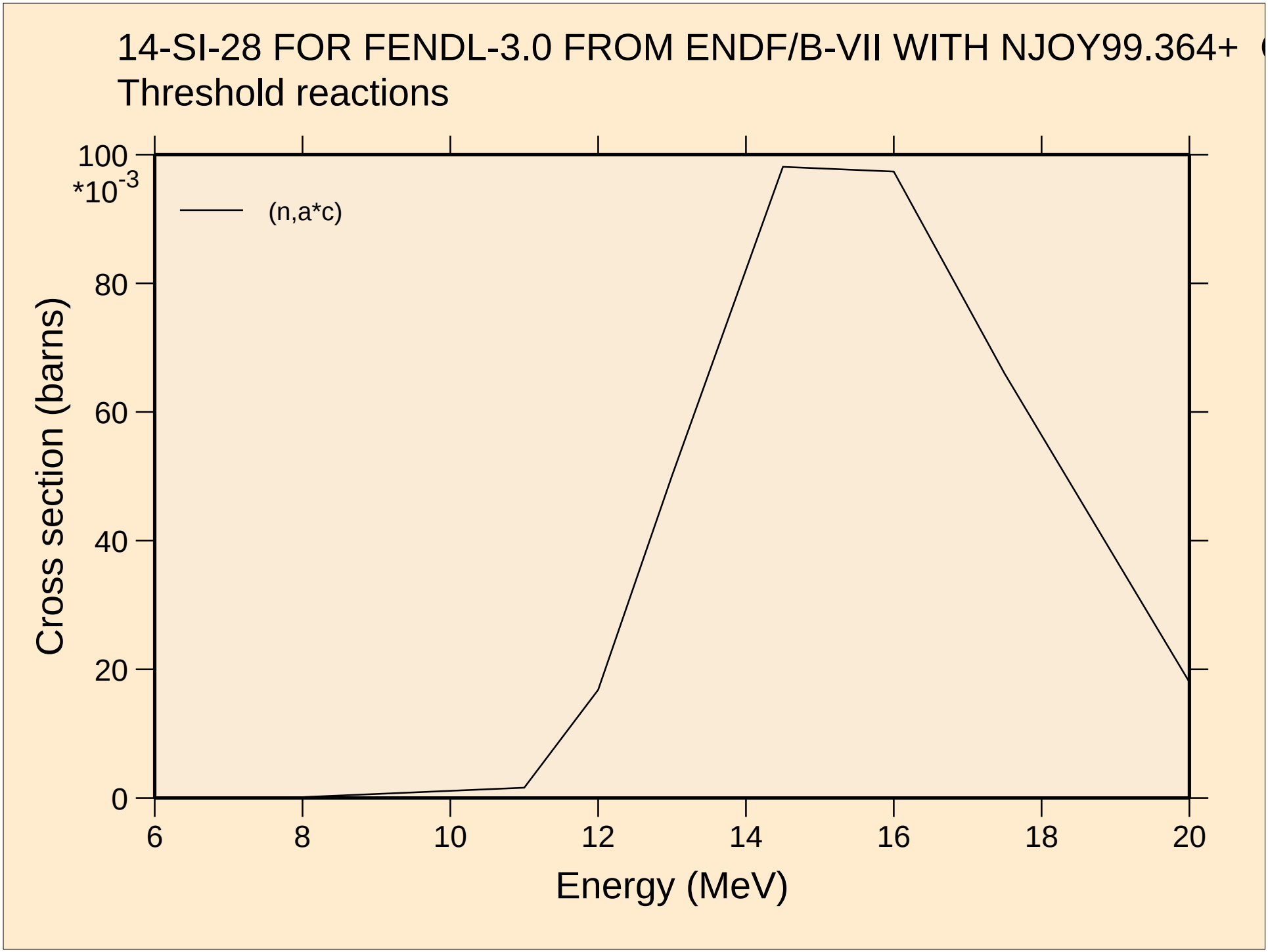

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
*10-3
Cross section (barns)
Energy (MeV)
(n,p*6)
(n,p*7)
(n,p*8)
(n,p*9)
(n,p*10)
0
5
10
15
20
25
30
35
4
6
8
10
12
14
16
18
20

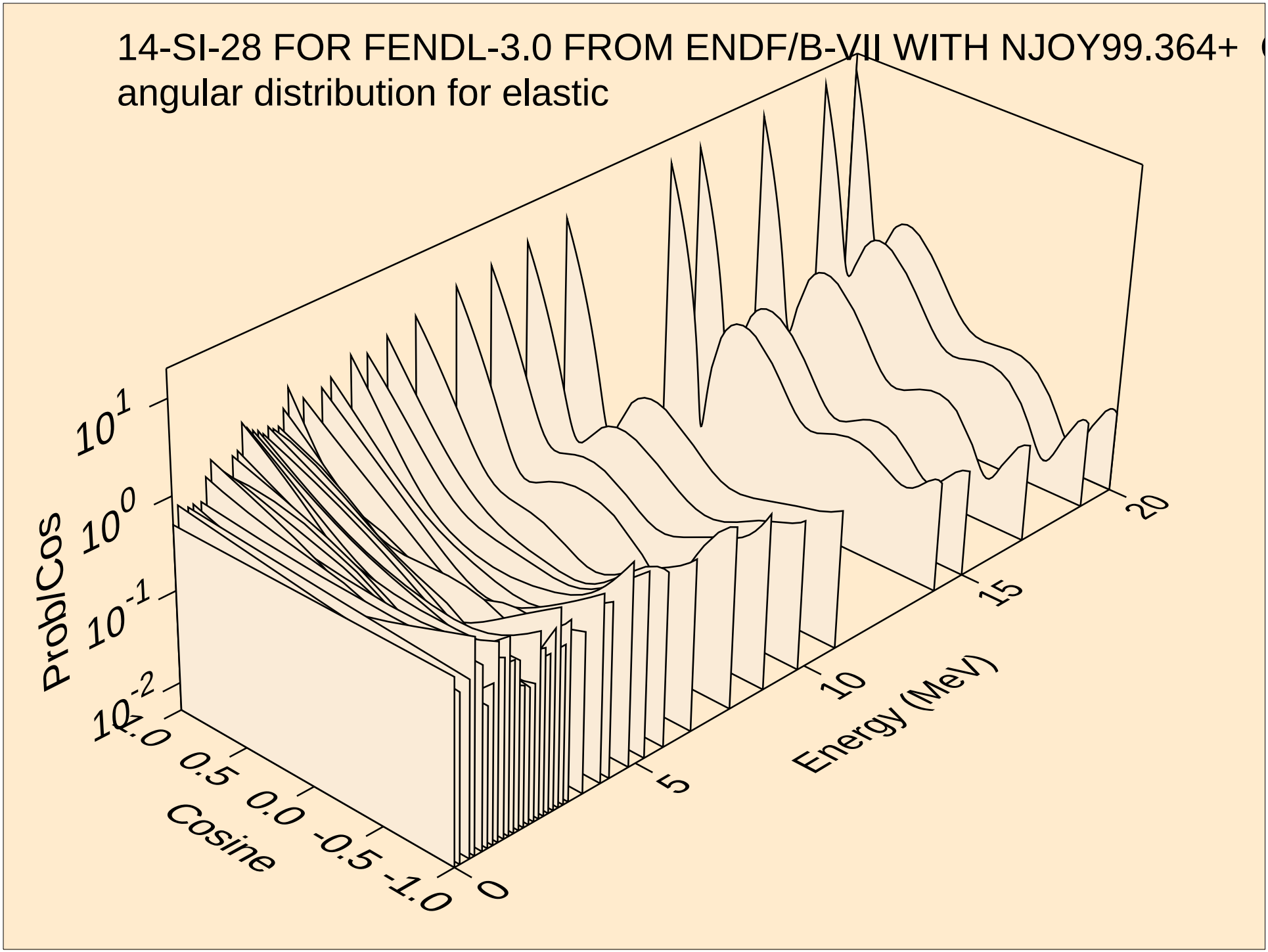

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
250
*10-3
200
150
100
50
0
Cross section (barns)
(n,p*11)
(n,p*12)
(n,p*13)
(n,p*c)
(n,a*0)
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

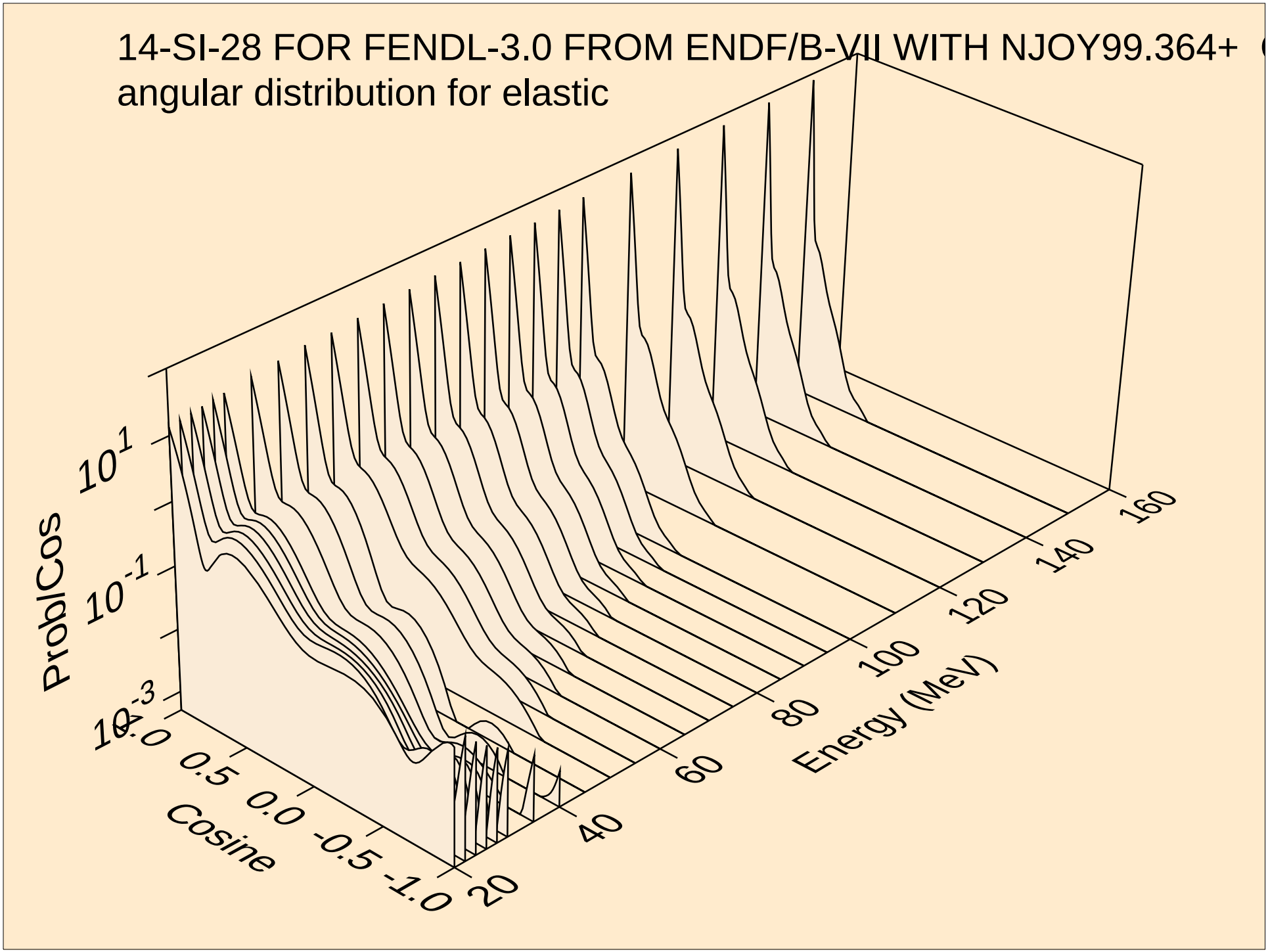

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
*10-3
Cross section (barns)
Energy (MeV)
(n,a*1)
(n,a*2)
(n,a*3)
(n,a*4)
(n,a*5)
0
5
10
15
20
25
30
35
40
2
4
6
8
10
12
14
16
18
20

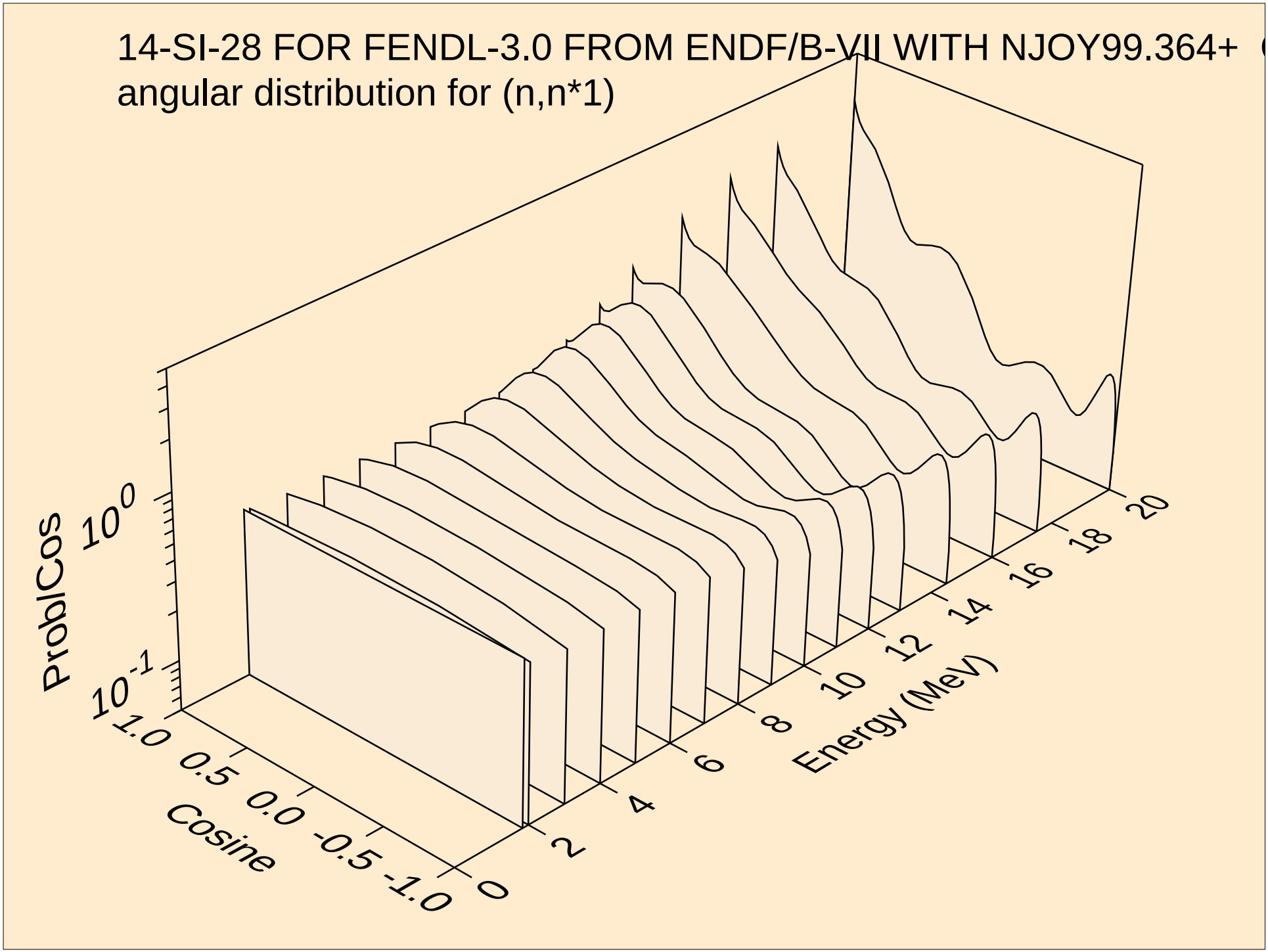

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
*10-3
Cross section (barns)
Energy (MeV)
(n,a*6)
(n,a*7)
(n,a*8)
(n,a*9)
(n,a*10)
0
2
4
6
8
10
12
14
4
6
8
10
12
14
16
18
20

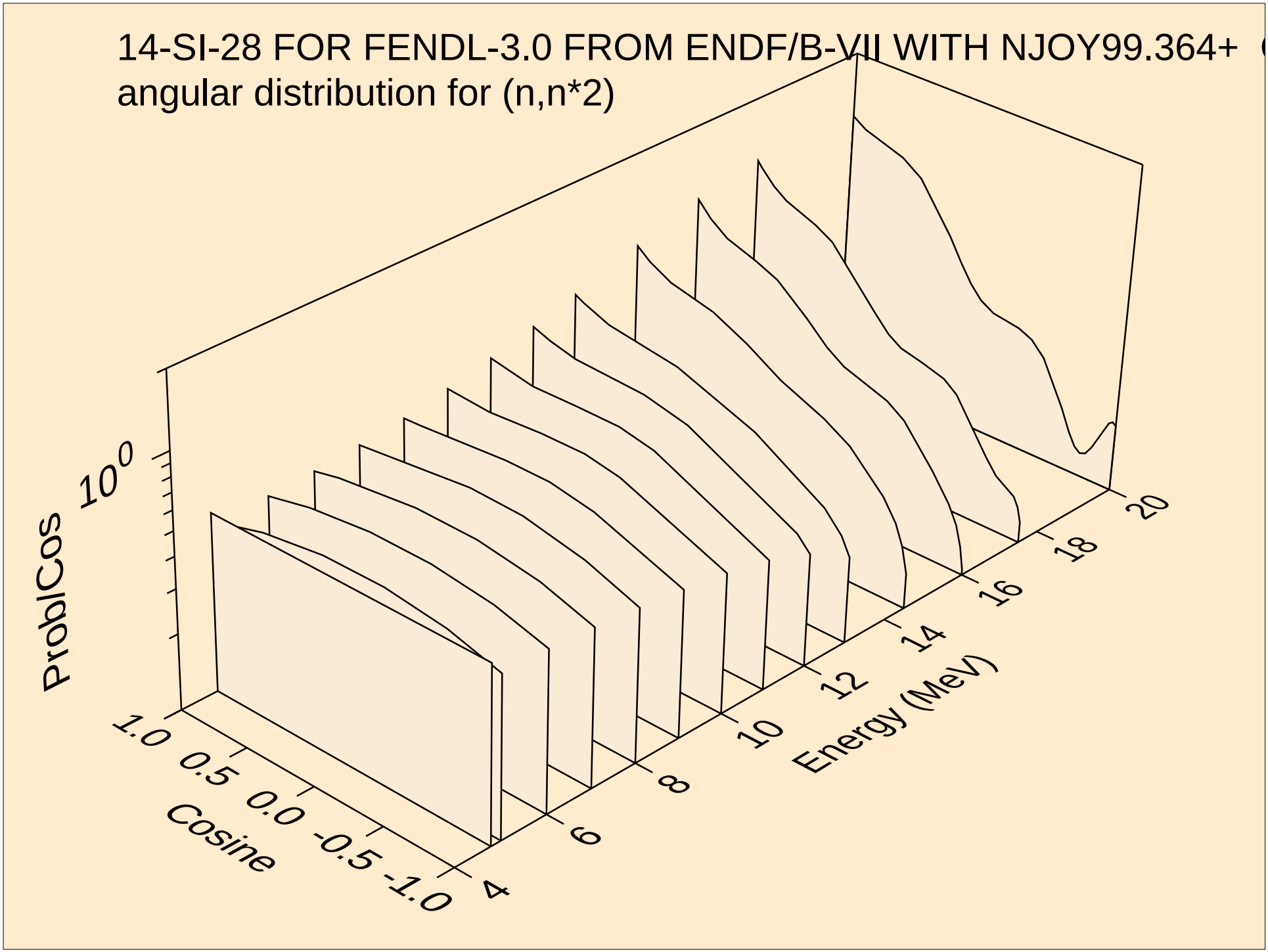

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
10
*10-3
8
6
4
2
0
Cross section (barns)
(n,a*11)
(n,a*12)
(n,a*13)
(n,a*14)
(n,a*15)
6
8
10
12
14
16
18
20
Energy (MeV)

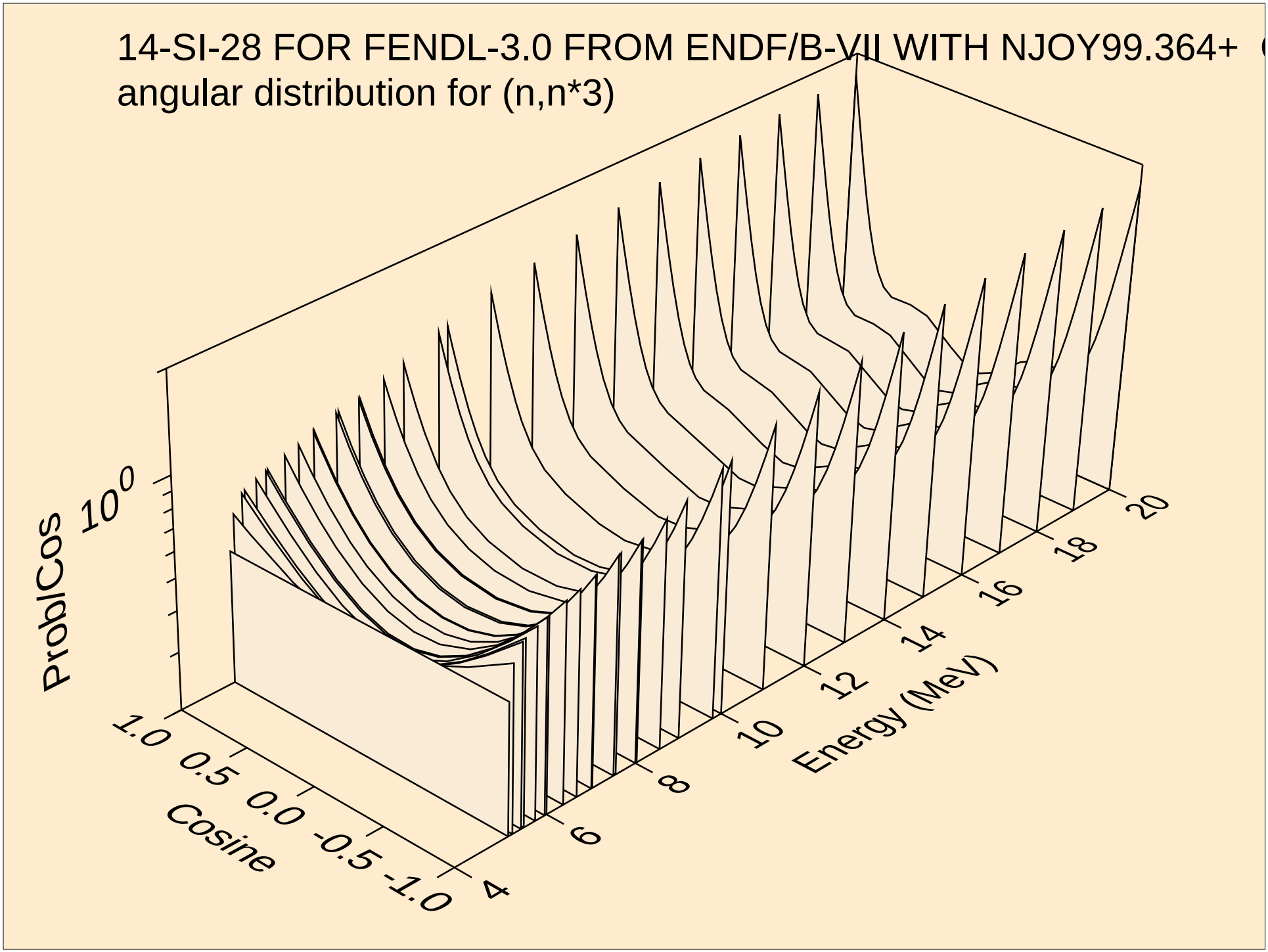

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
100
*10-3
80
60
40
20
0
(n,a*c)
Cross section (barns)
6
8
10
12
14
16
18
20
Energy (MeV)

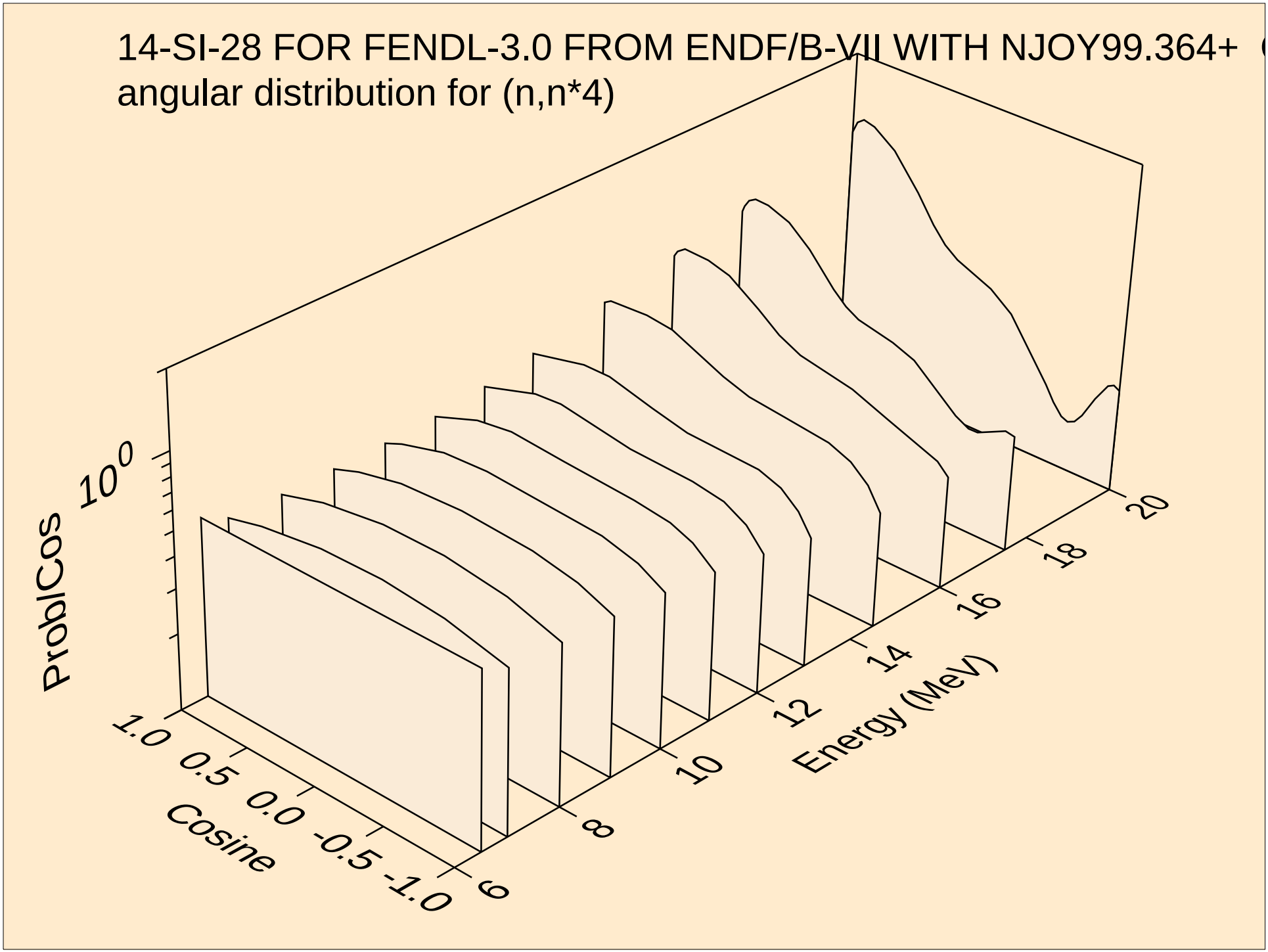

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for elastic
ProbICos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

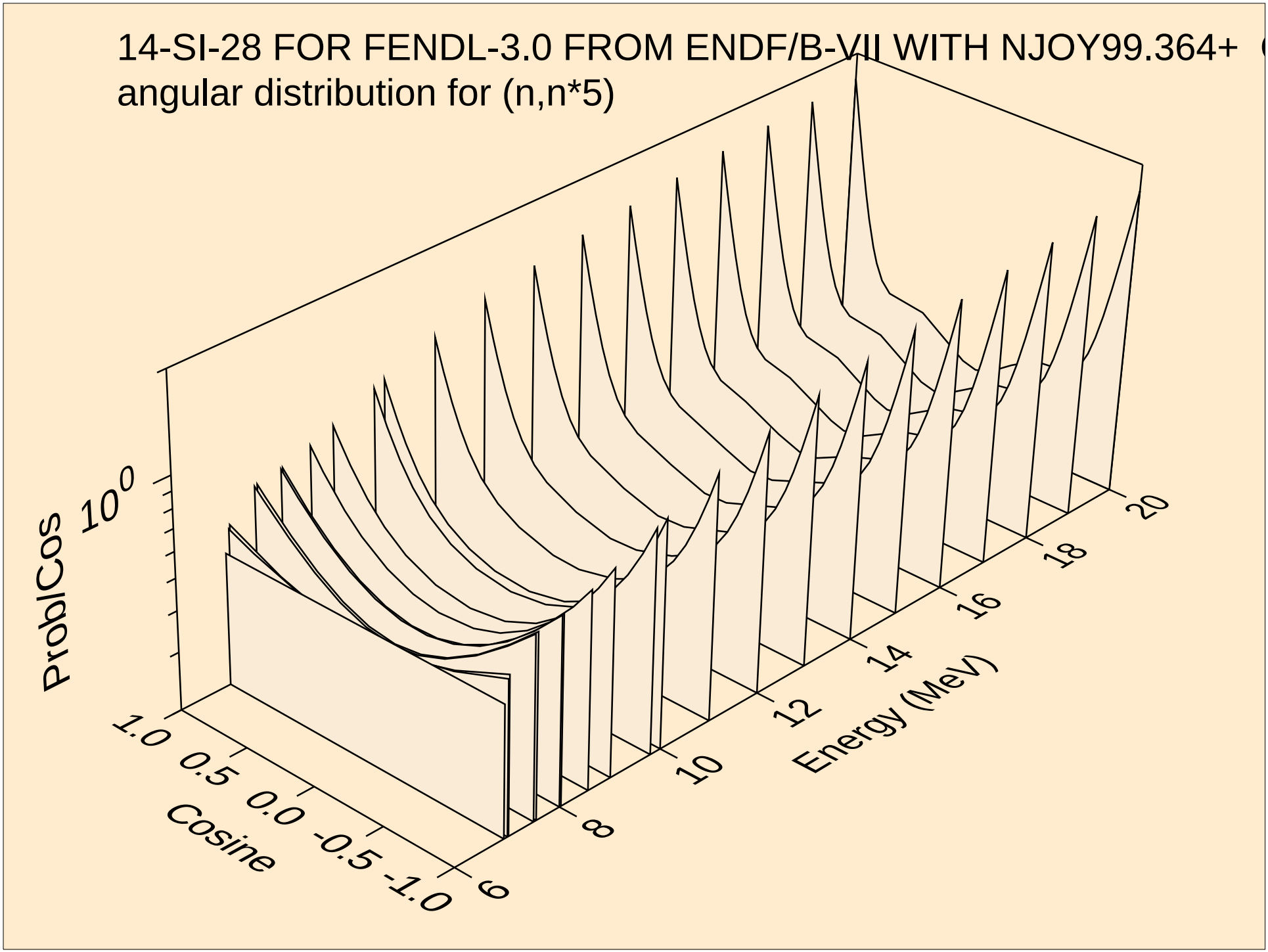

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for elastic
ProbICos
10^1
10^-1
10^-3
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

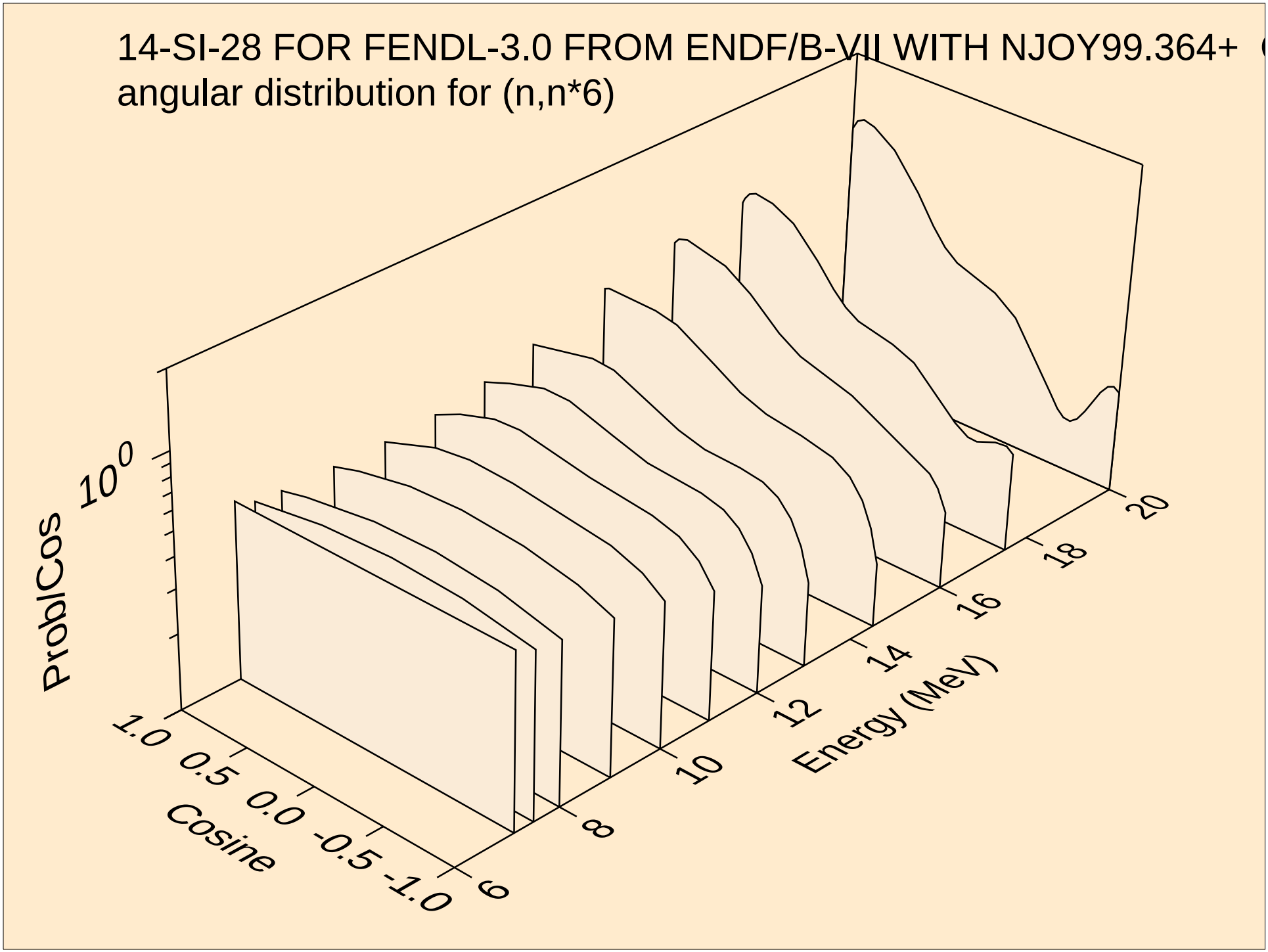

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*1)
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

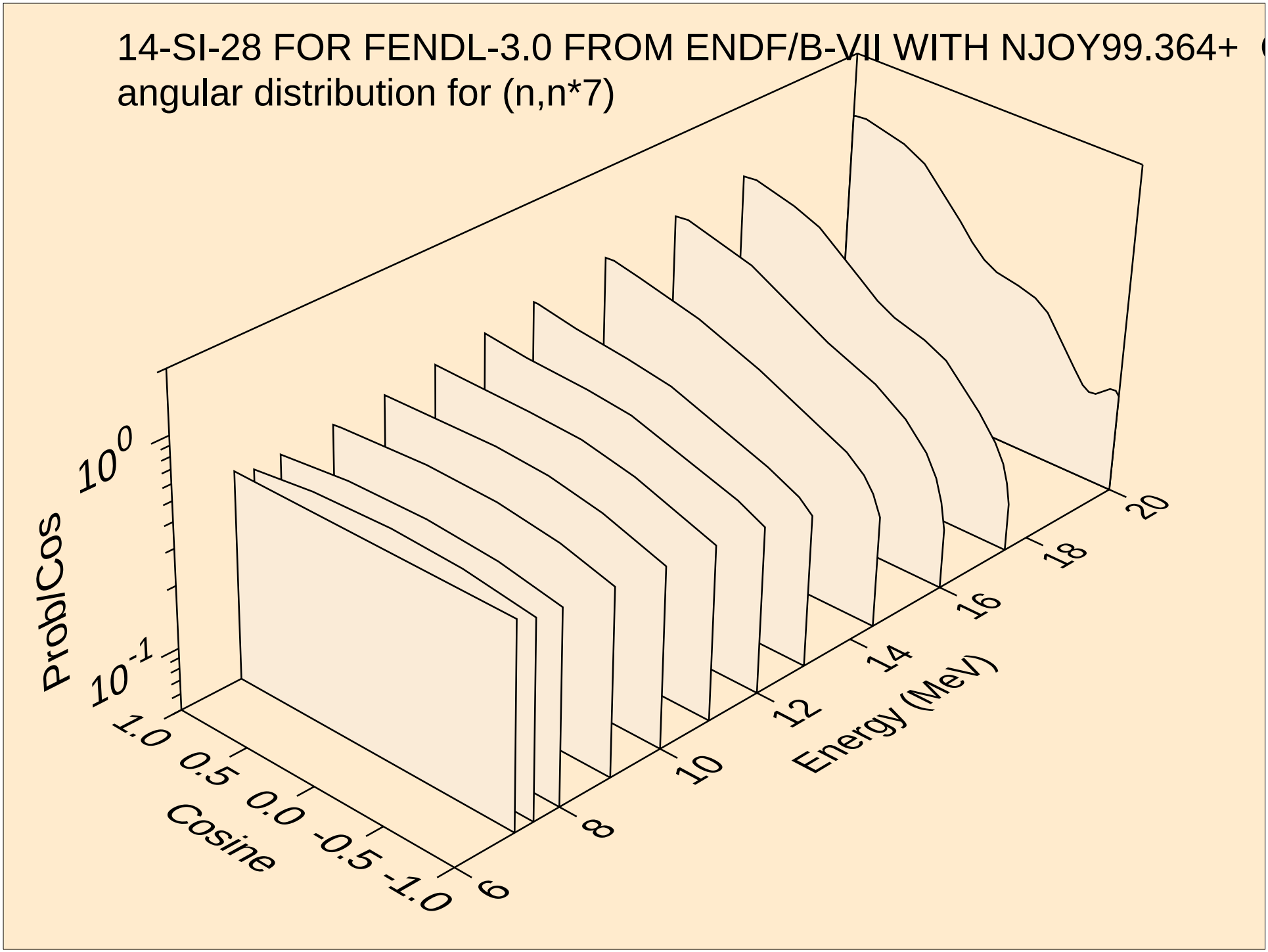

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*2)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

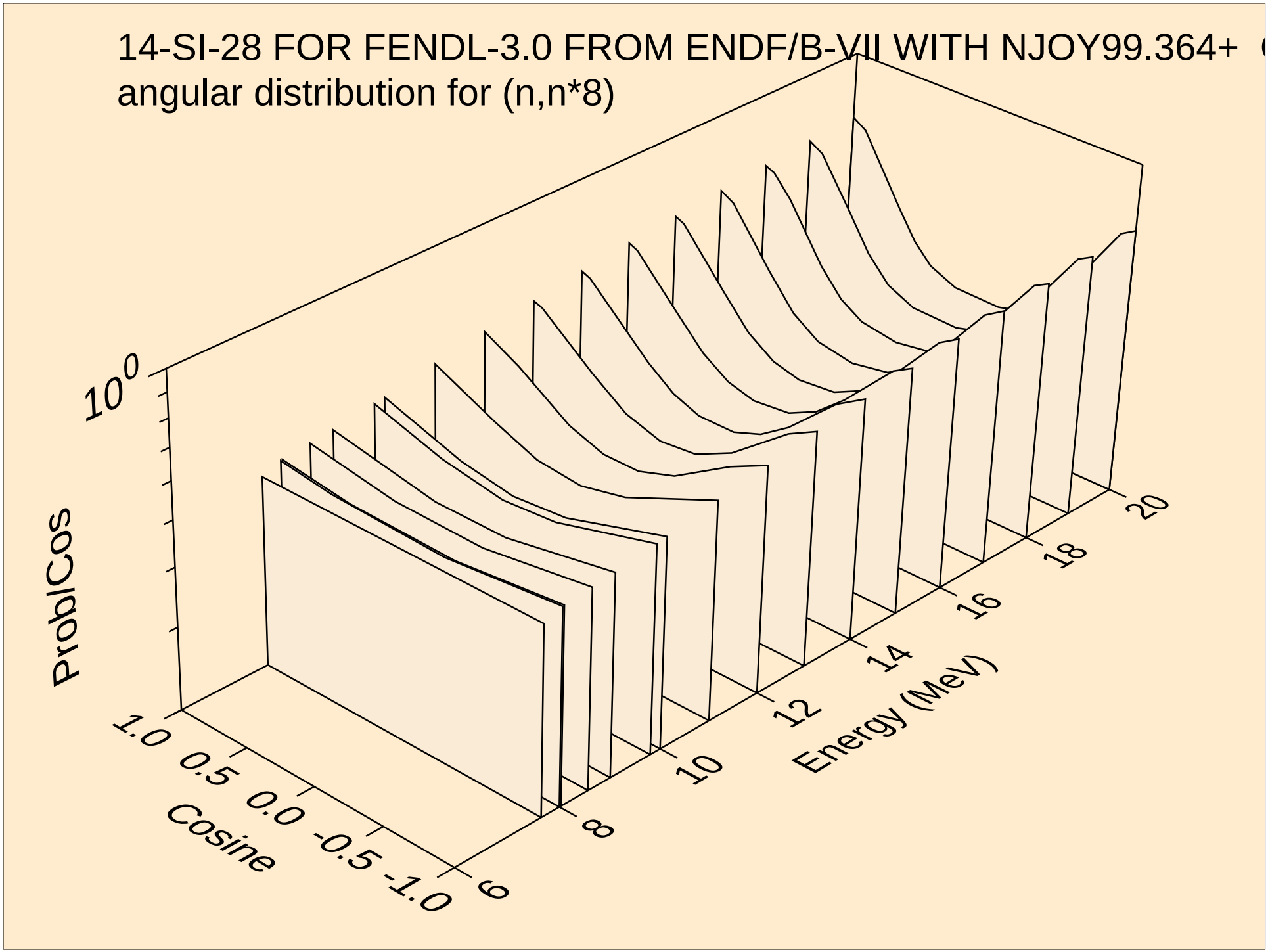

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*3)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

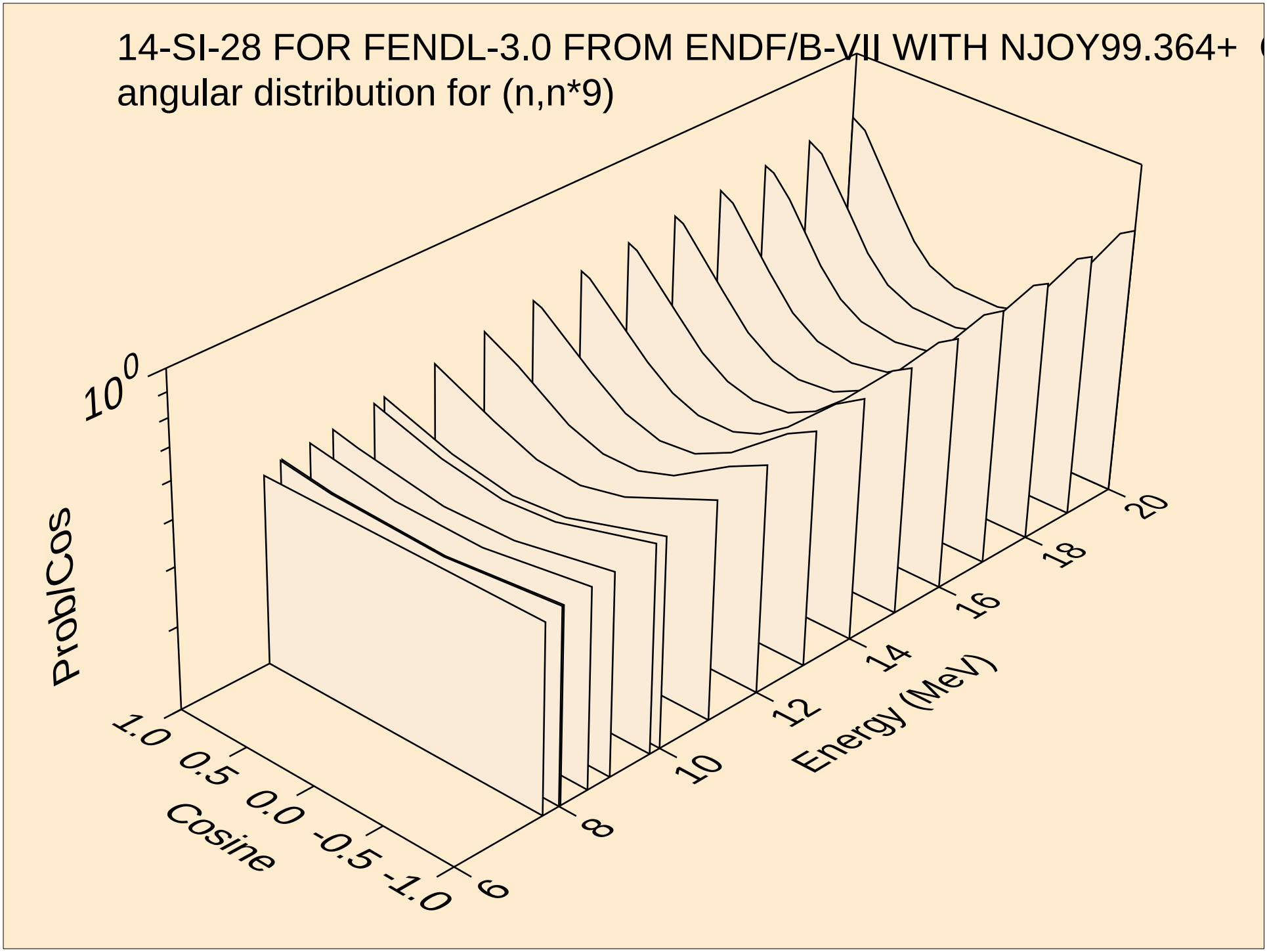

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*4)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

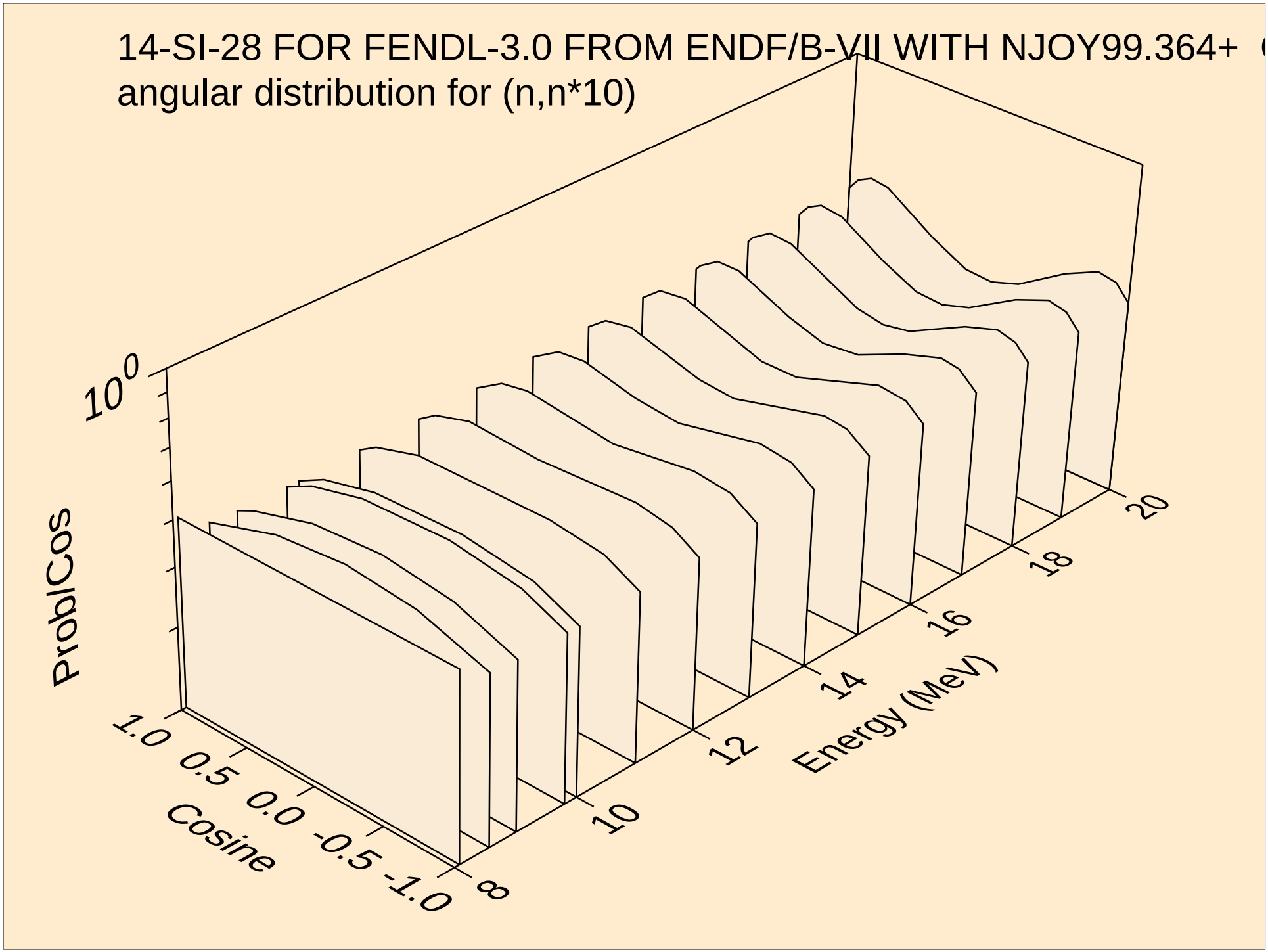

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*5)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

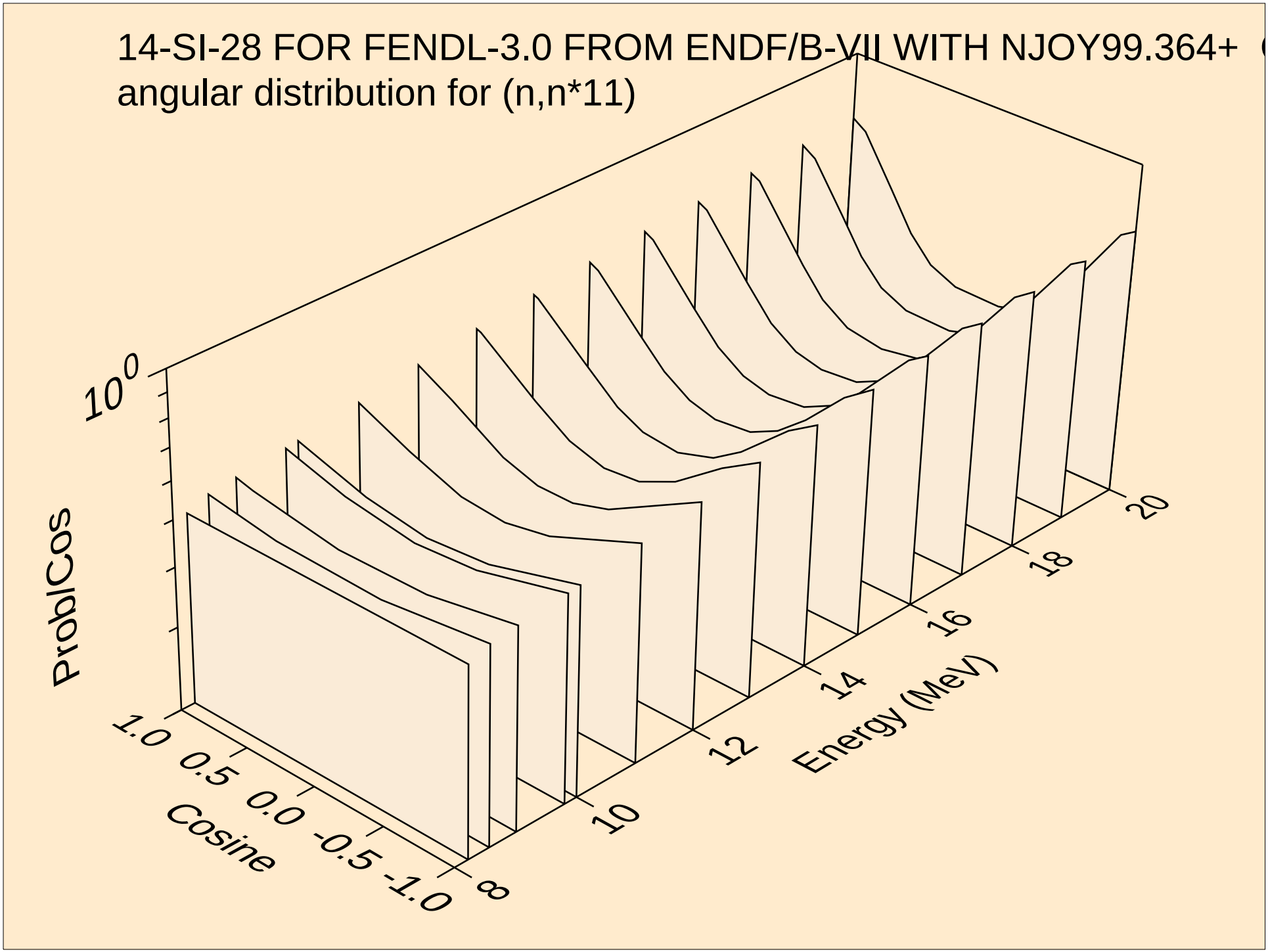

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*6)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

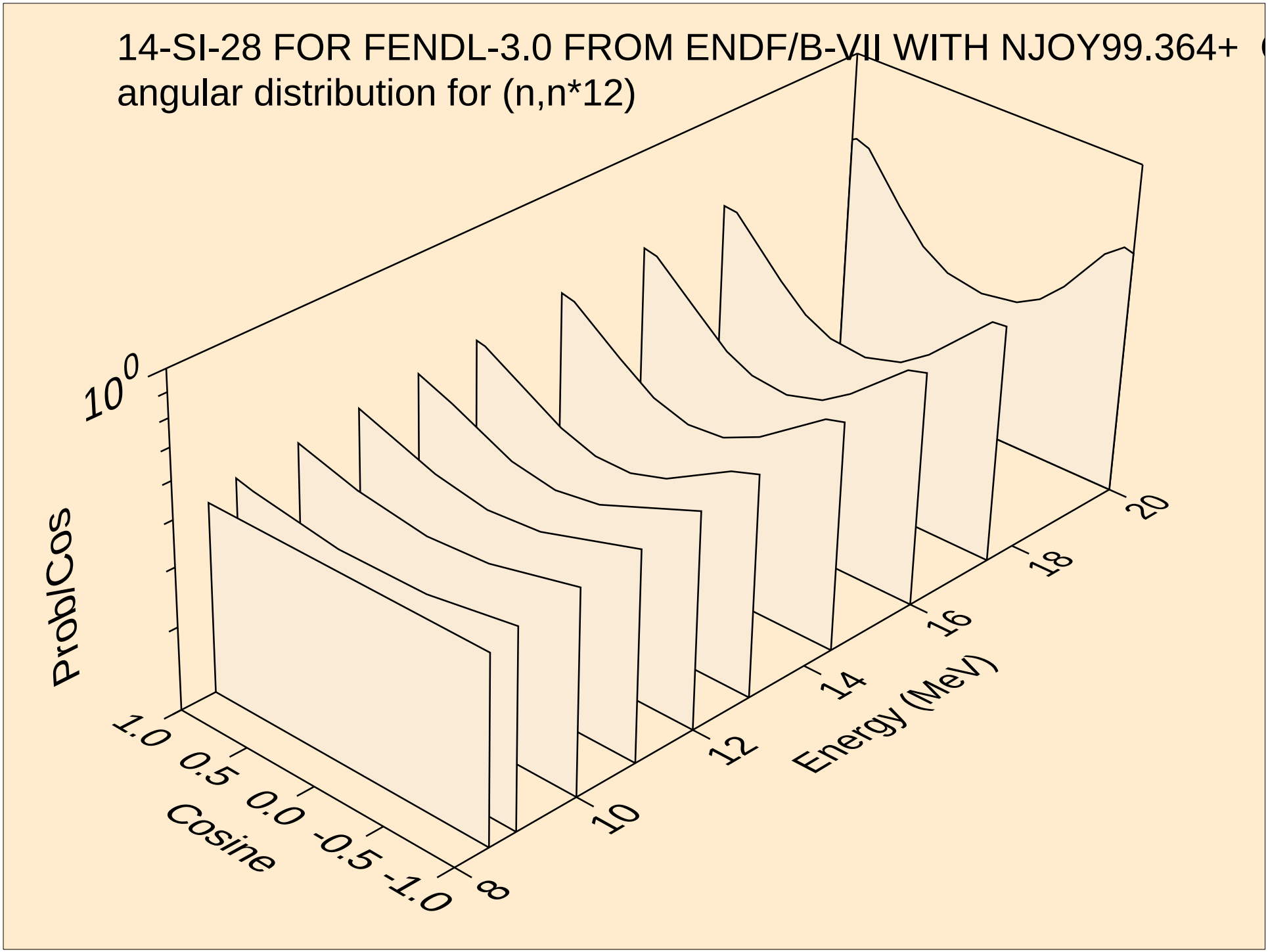

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*7)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

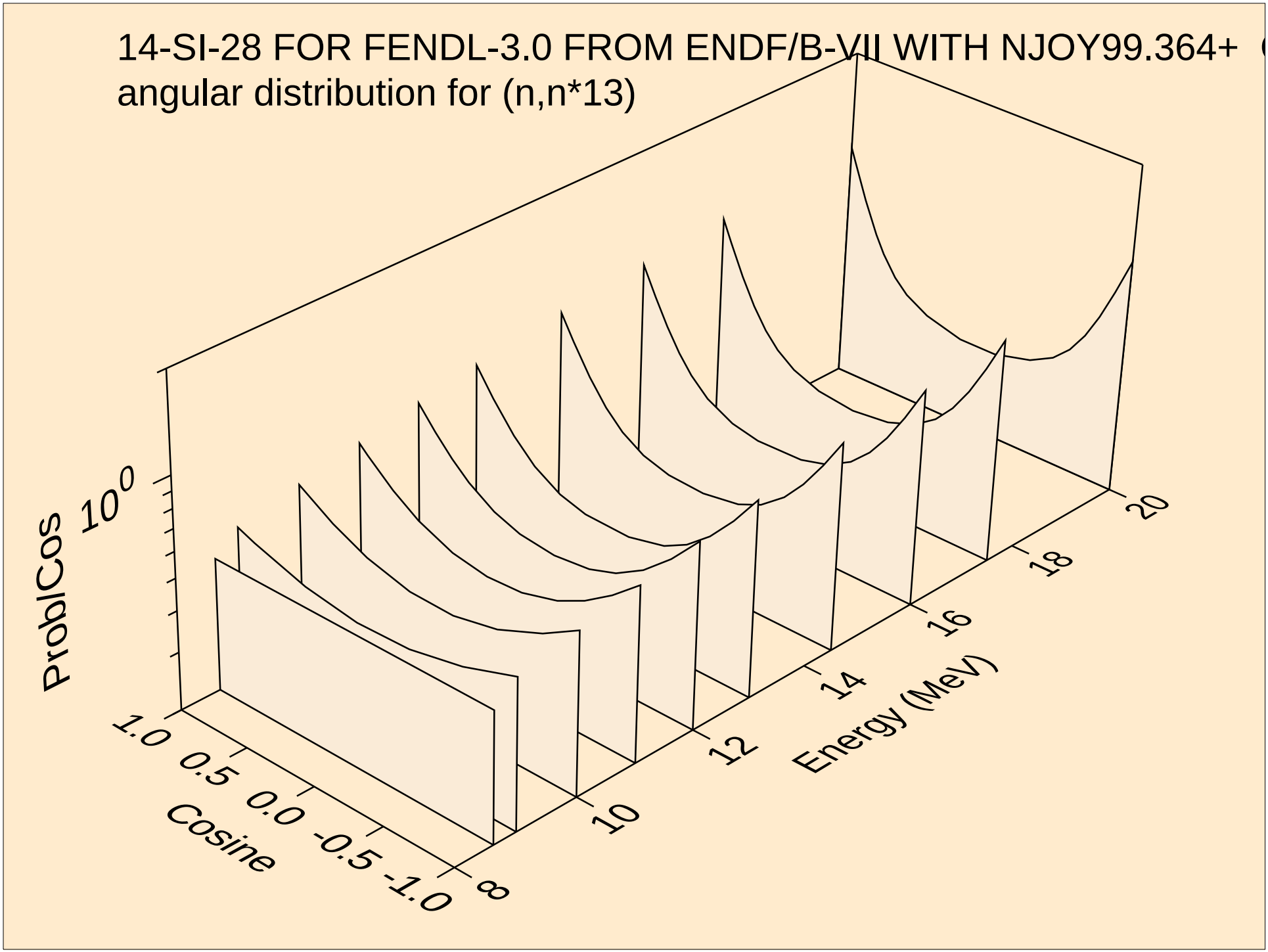

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*8)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

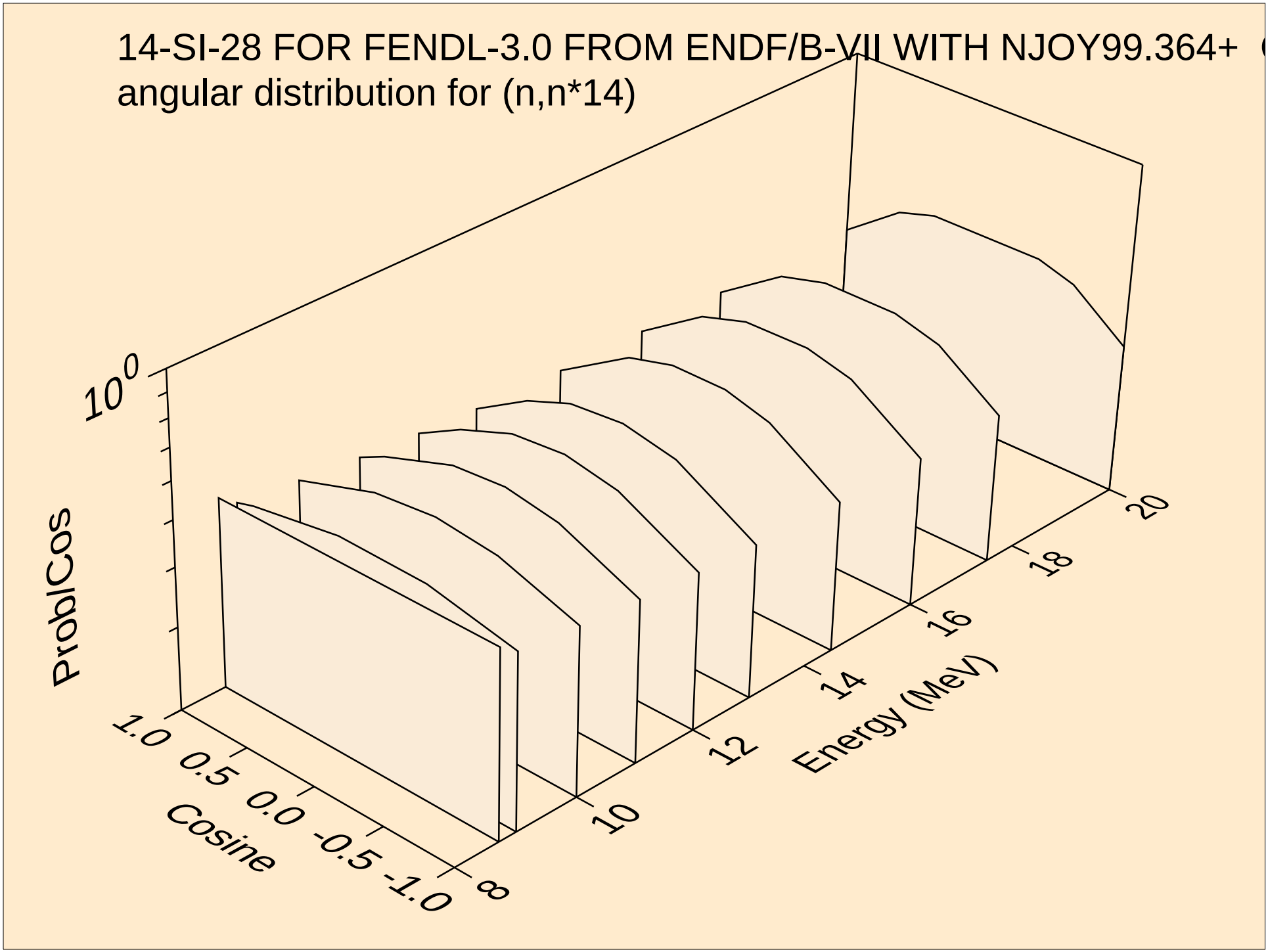

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*9)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

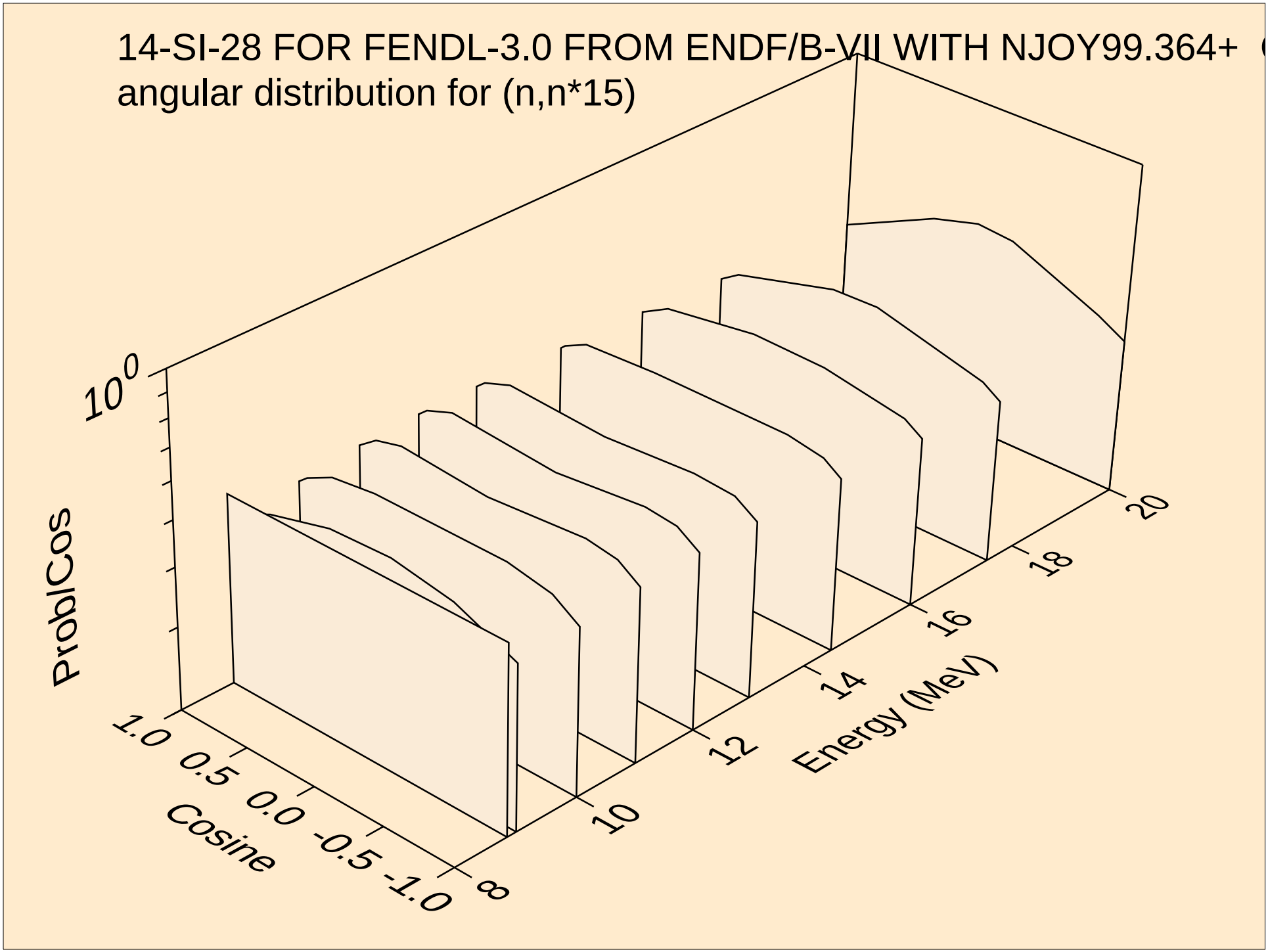

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*10)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

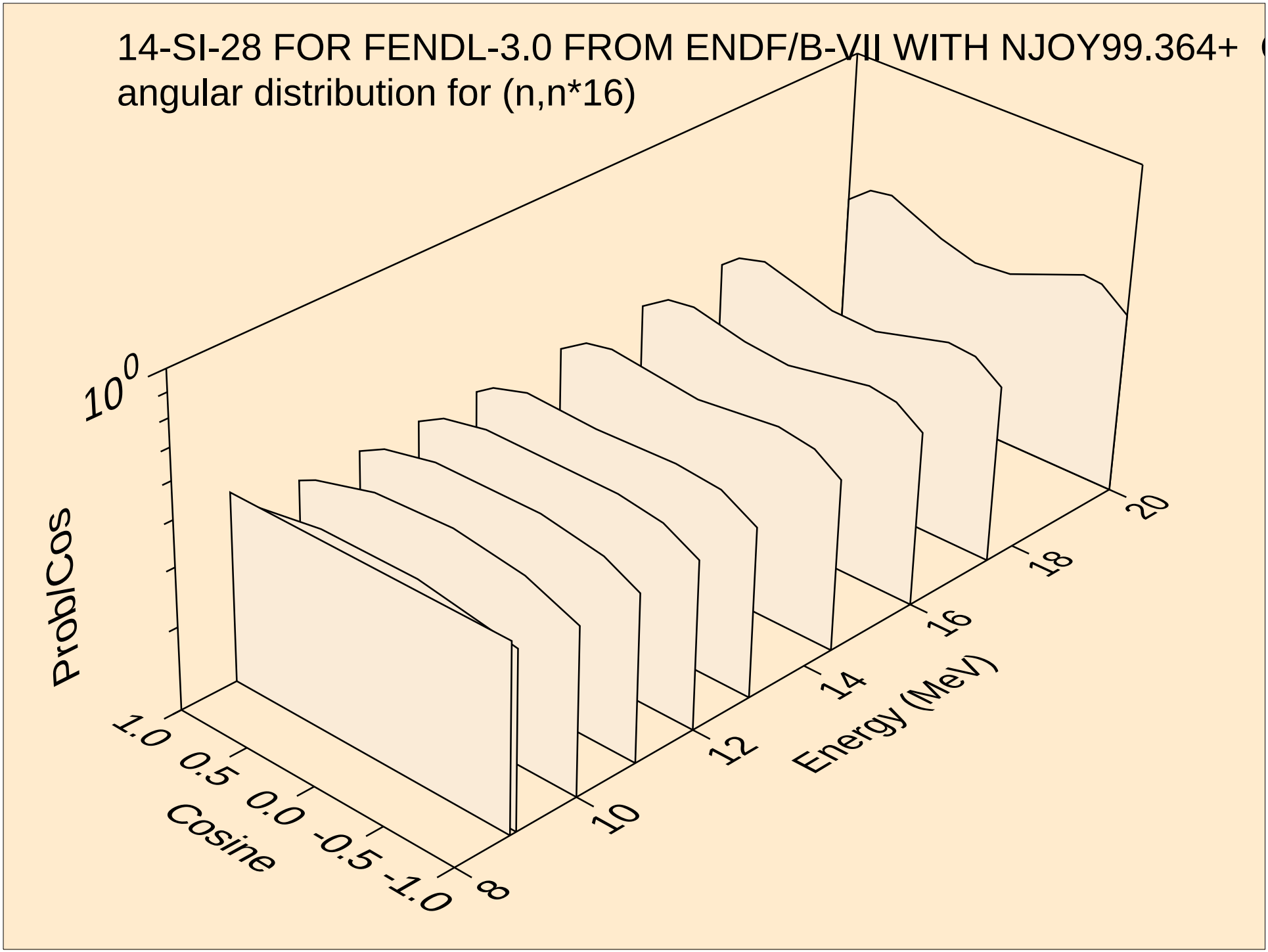

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*11)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

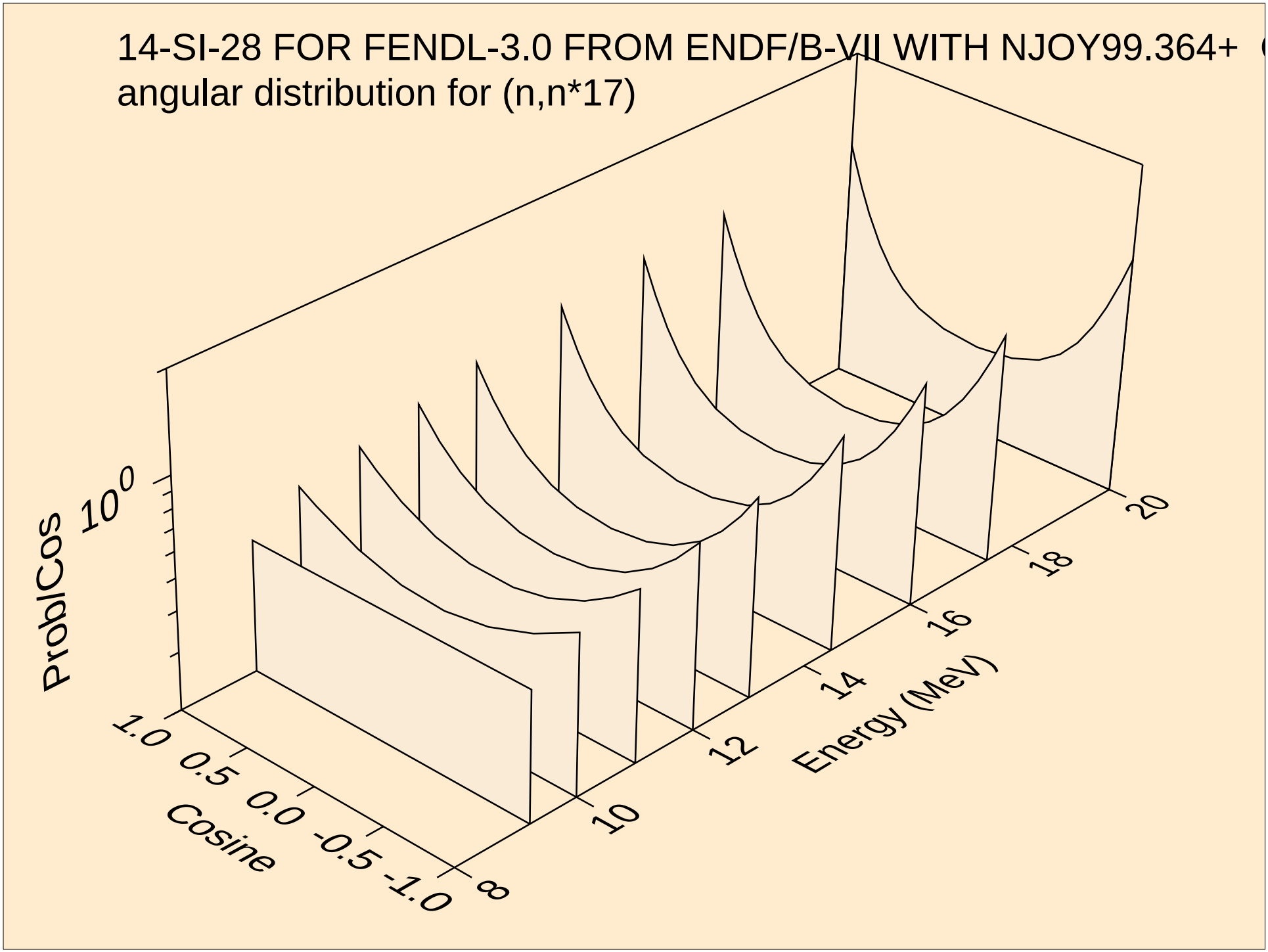

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*12)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

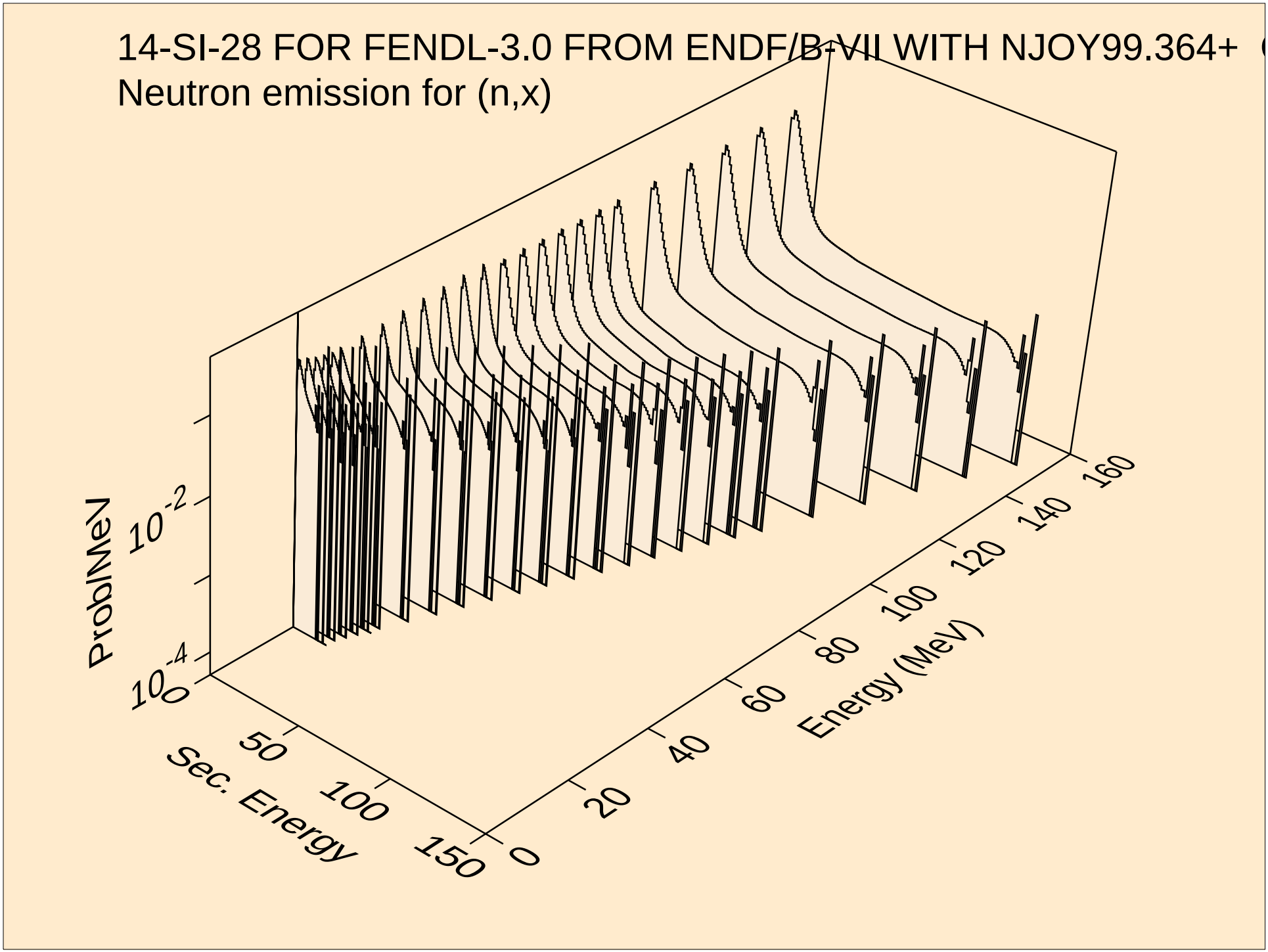

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*13)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

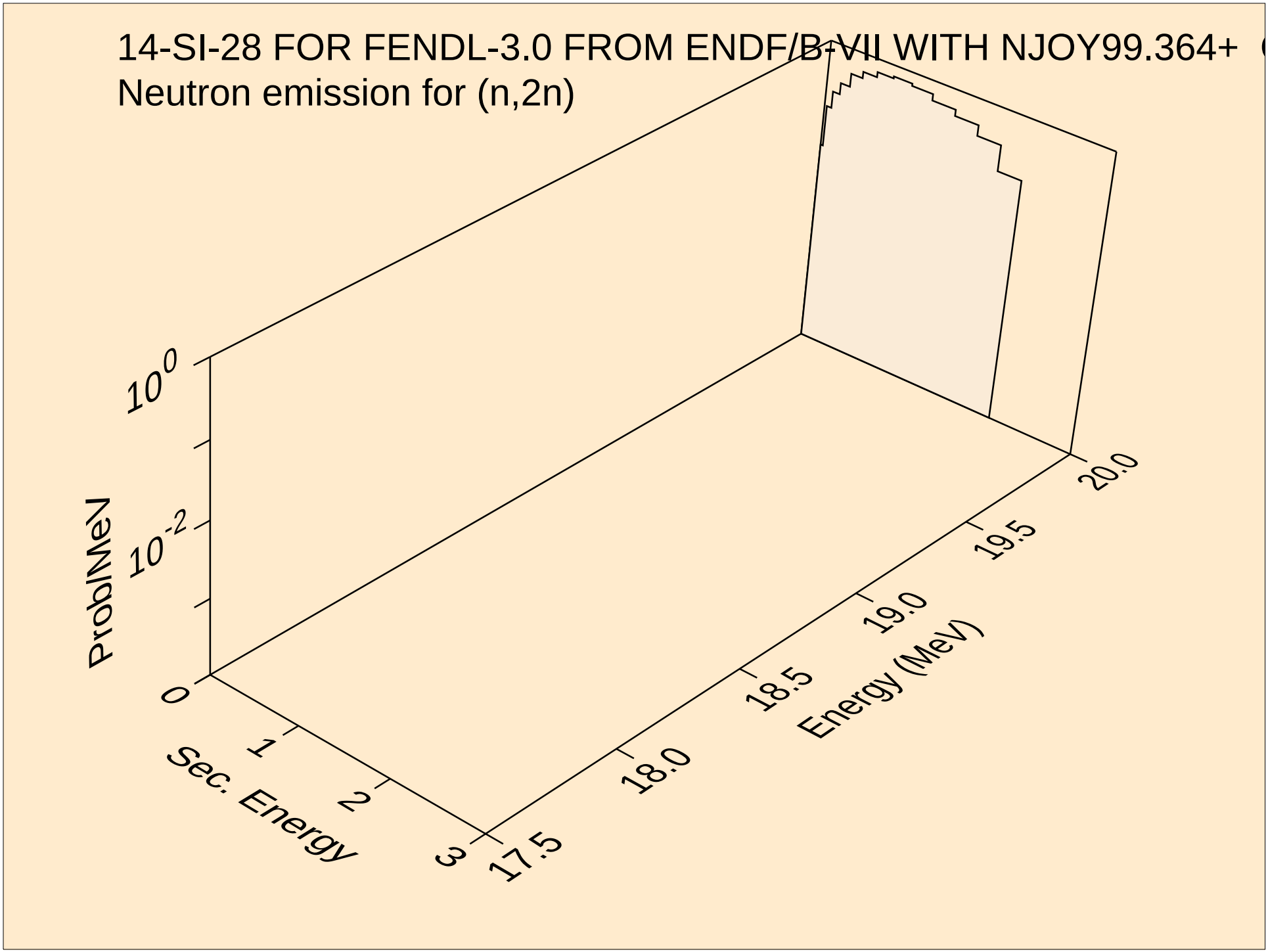

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*14)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

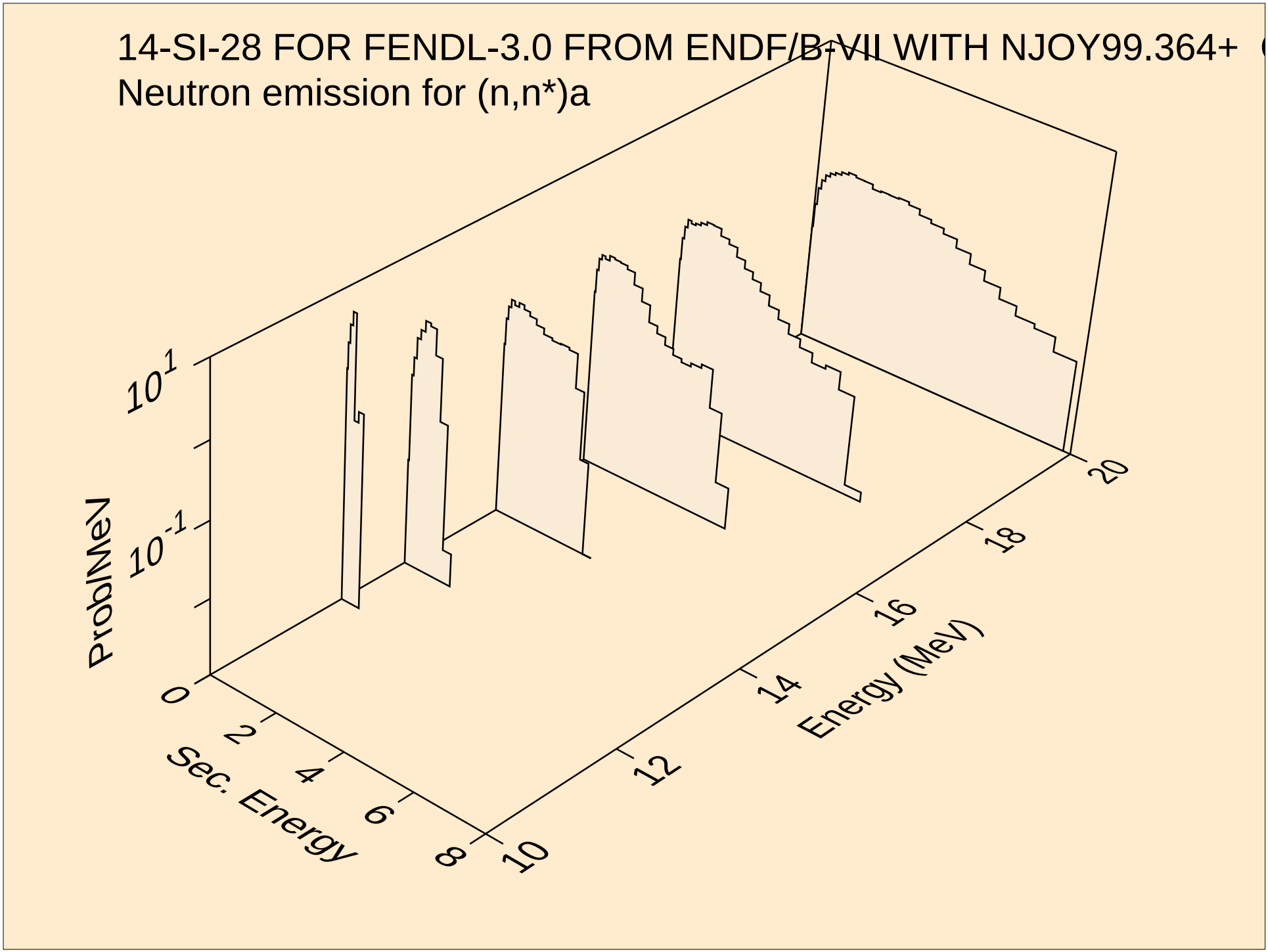

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*15)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

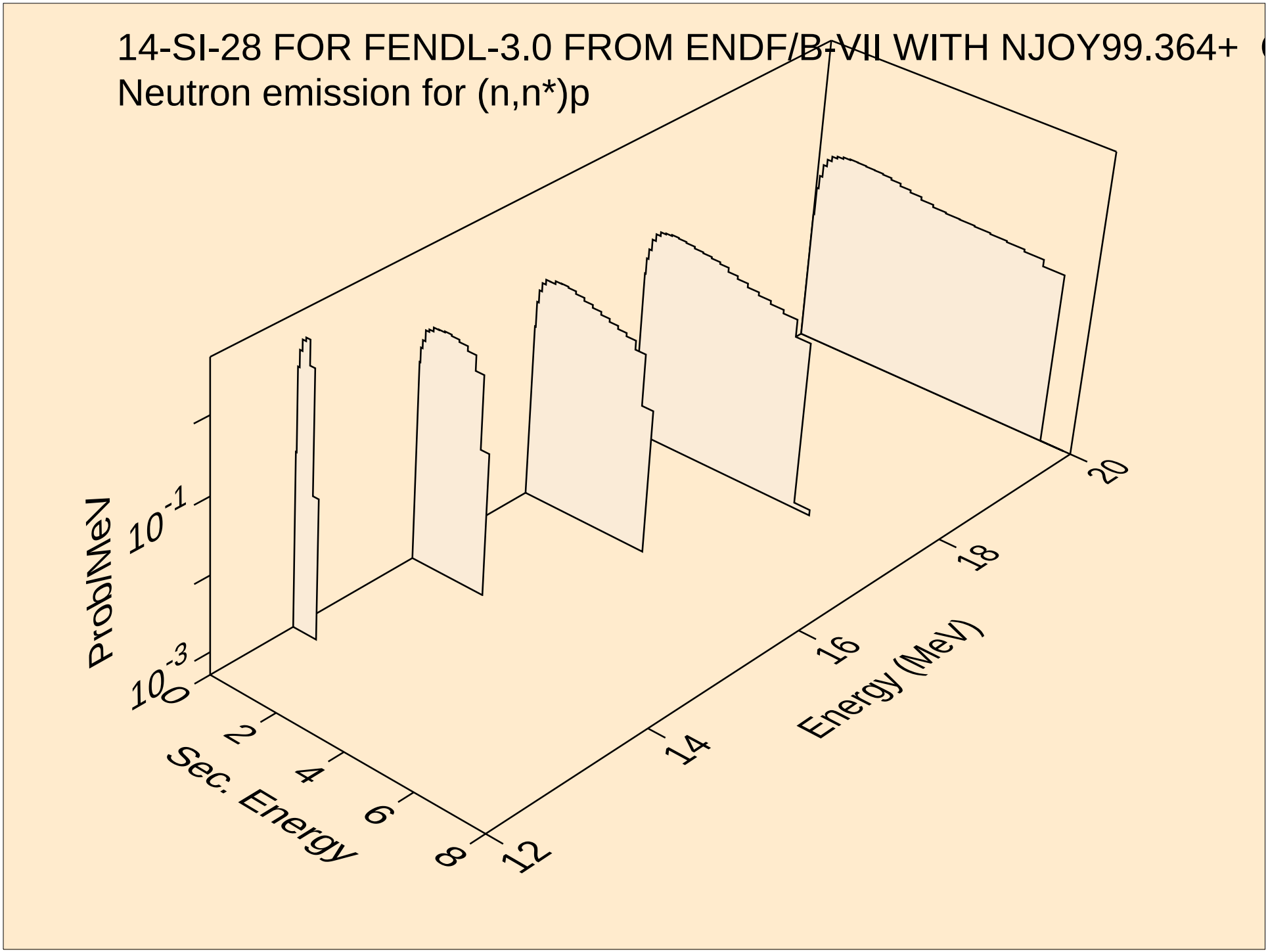

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*16)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

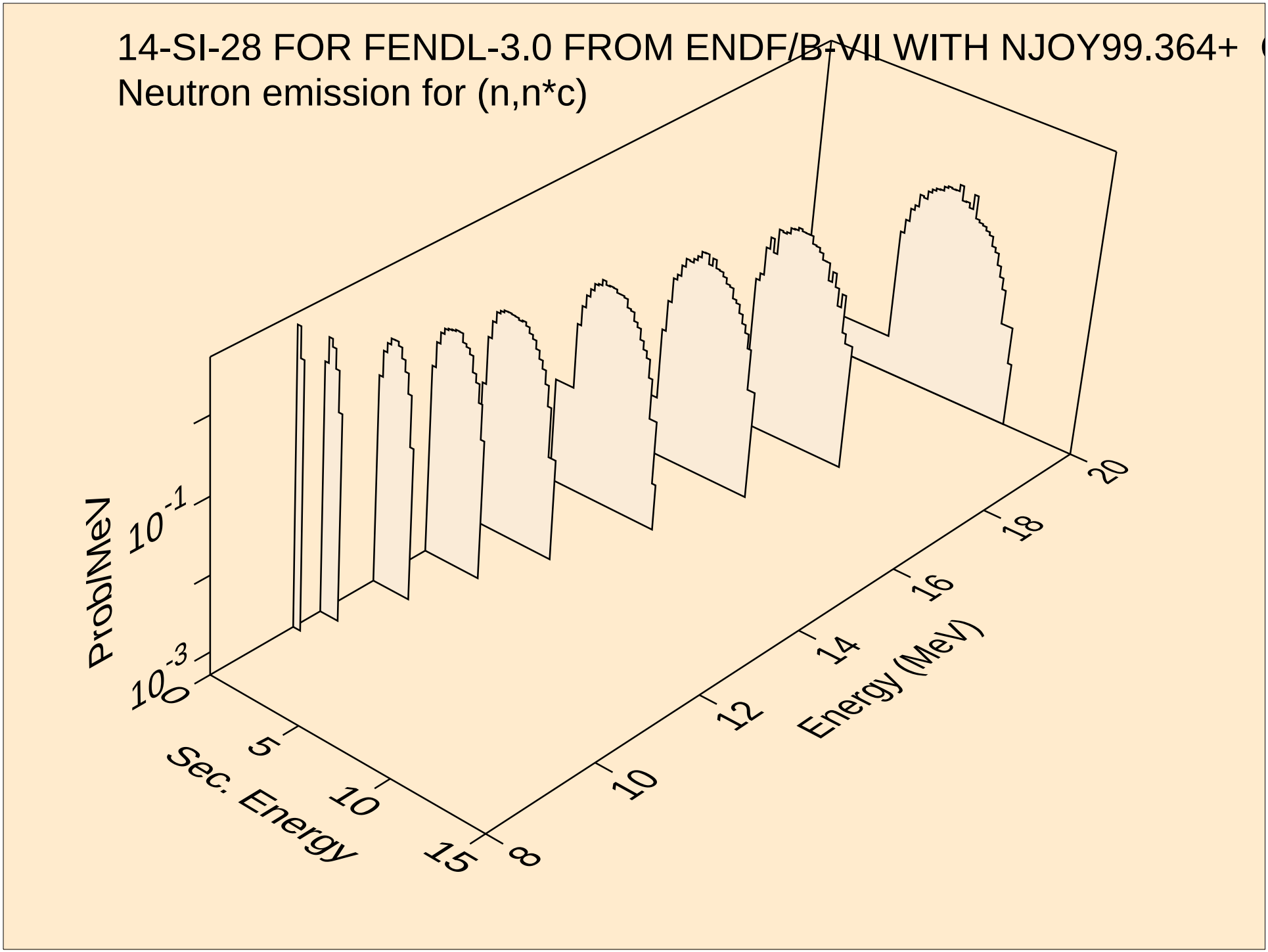

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,n*17)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
8
10
12
14
16
18
20
Energy (MeV)

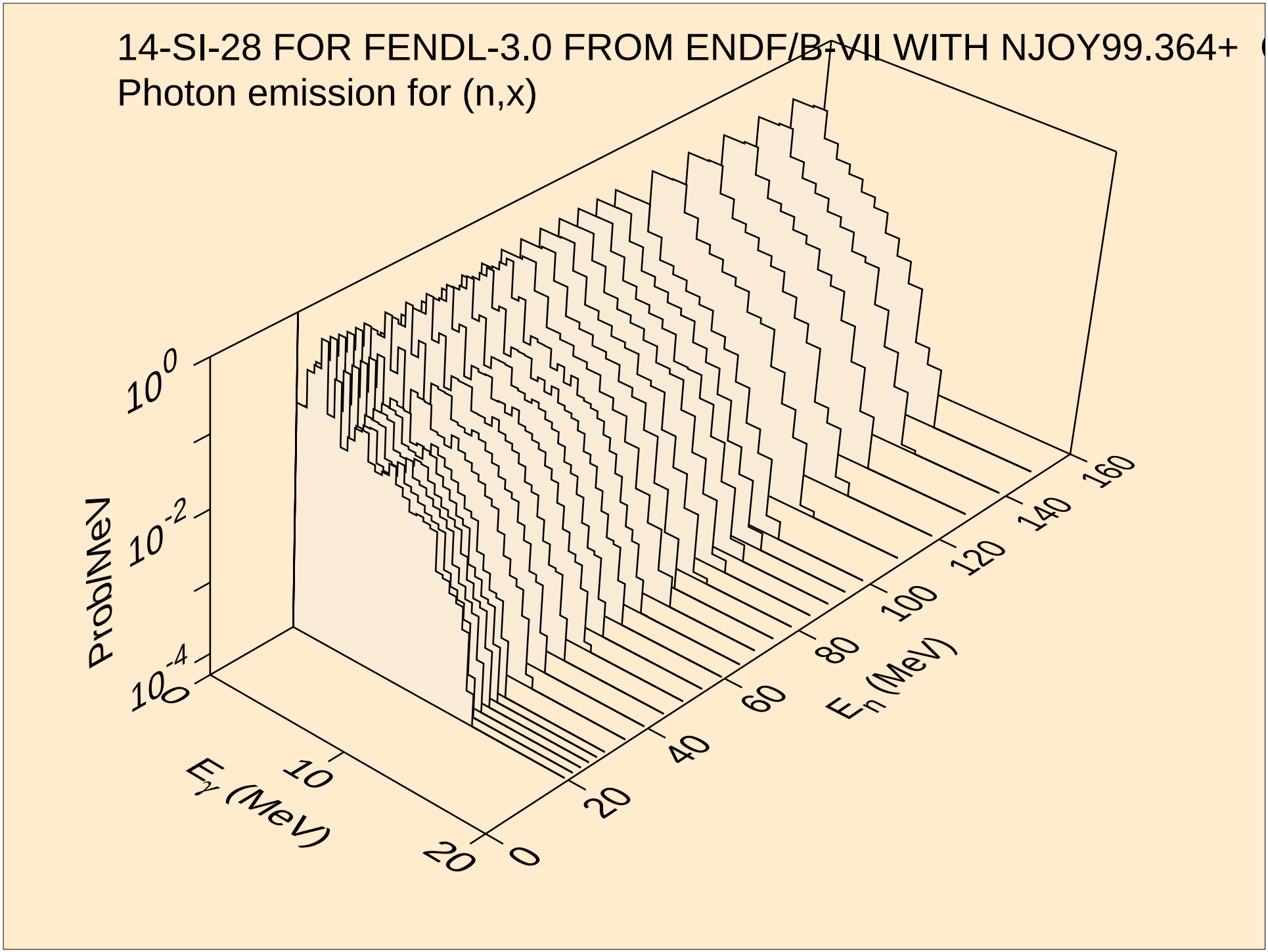

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Neutron emission for (n,x)
Prob/MeV
10-2
10-4
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

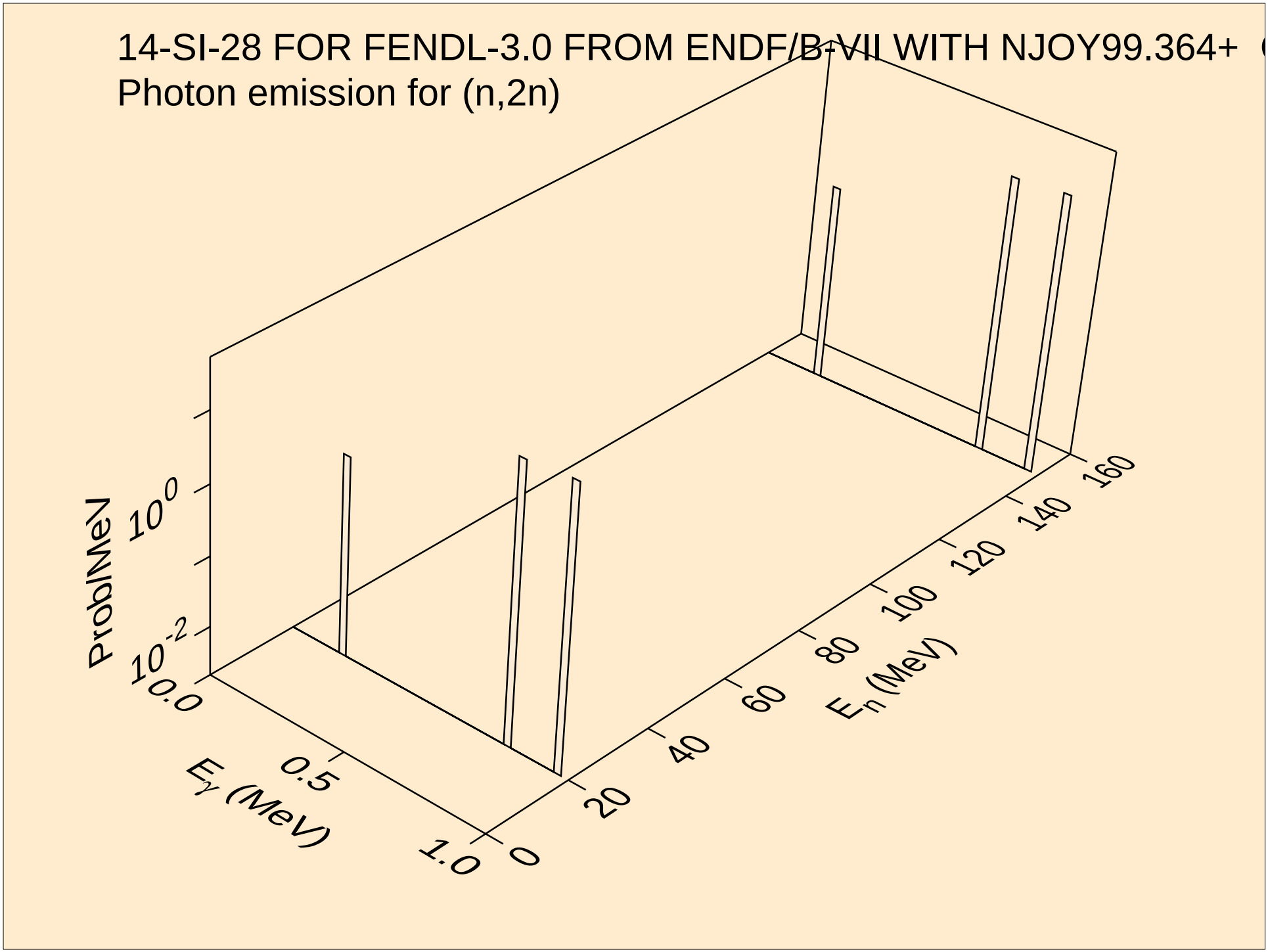

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Neutron emission for (n,2n)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
1
2
3
Energy (MeV)
17.5
18.0
18.5
19.0
19.5
20.0

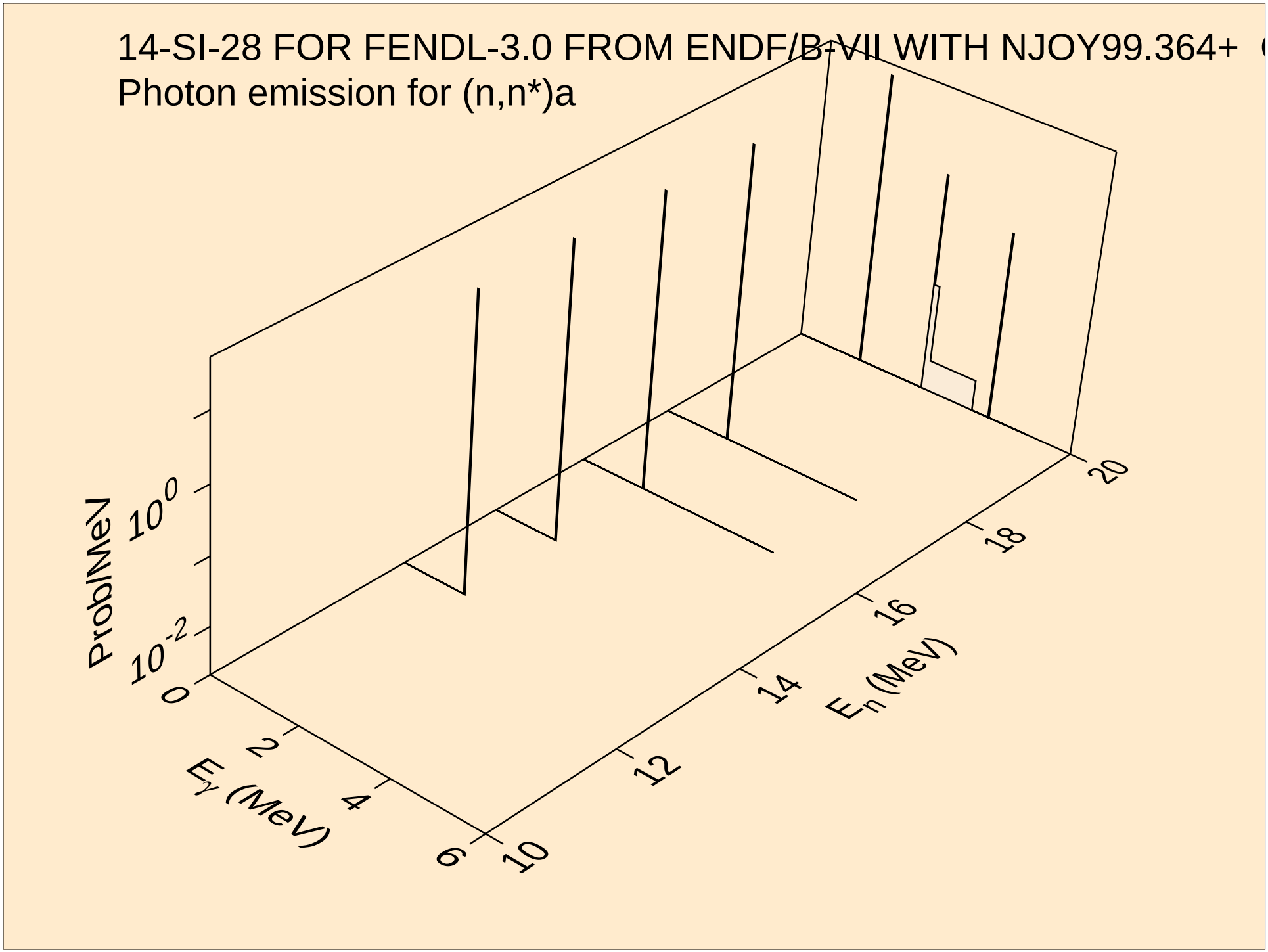

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Neutron emission for (n,n*)a
Prob/MeV
10^1
10^-1
0
2
4
6
8
10
12
14
16
18
20
Sec. Energy
Energy (MeV)

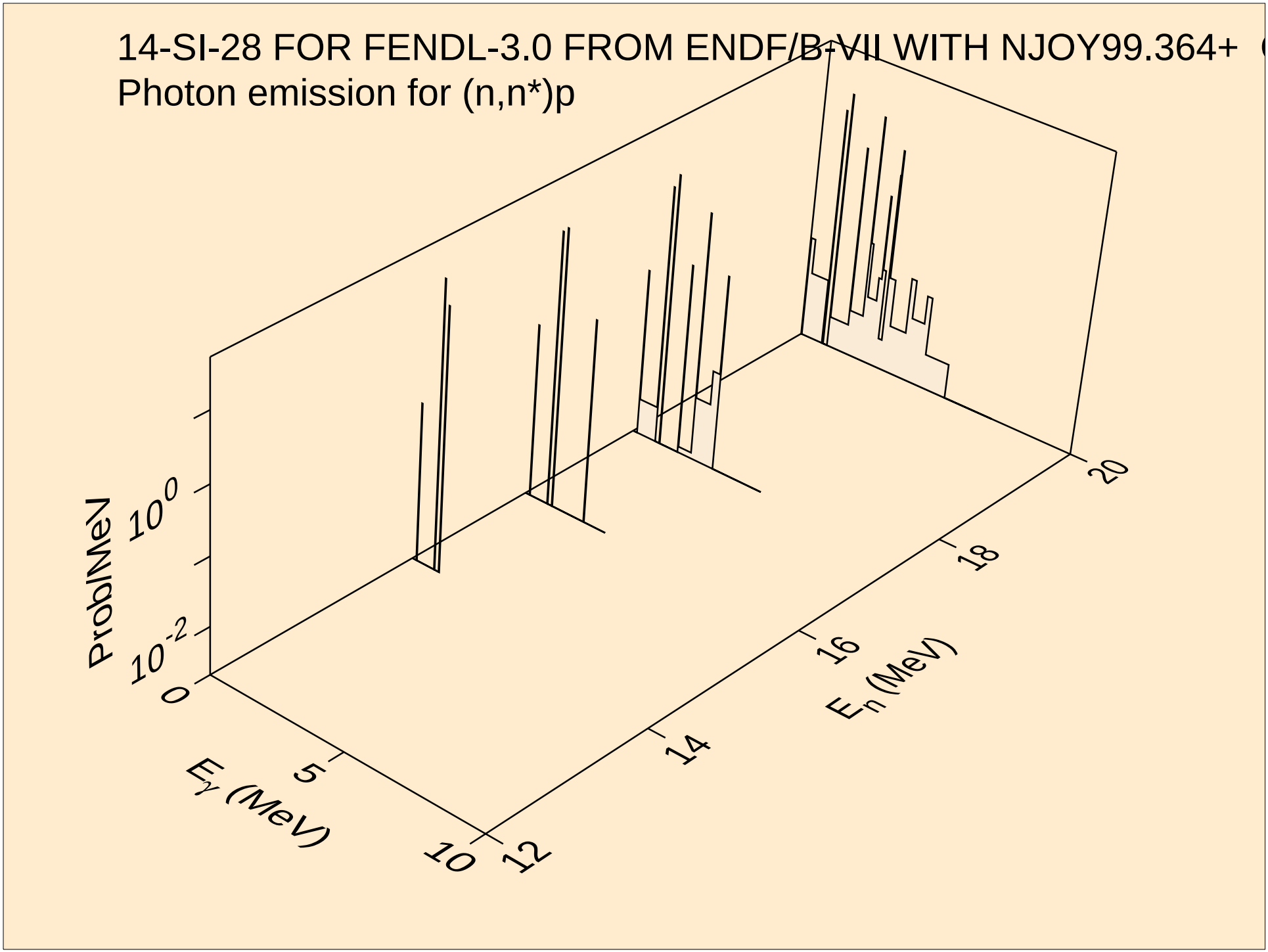

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Neutron emission for (n,n*)p
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
12
14
16
18
20
Energy (MeV)

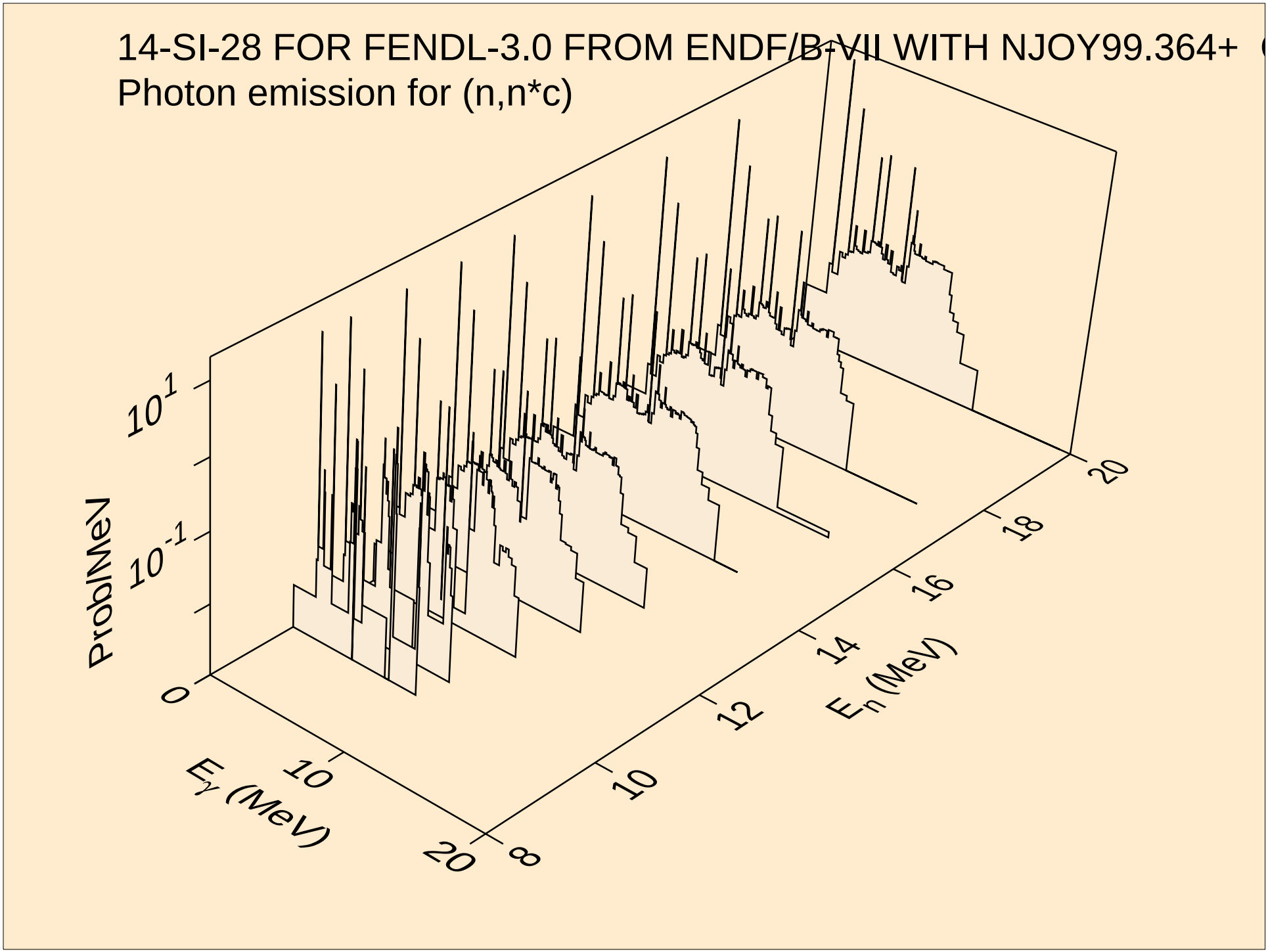

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Neutron emission for (n,n*c)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
8
10
12
14
16
18
20
Energy (MeV)

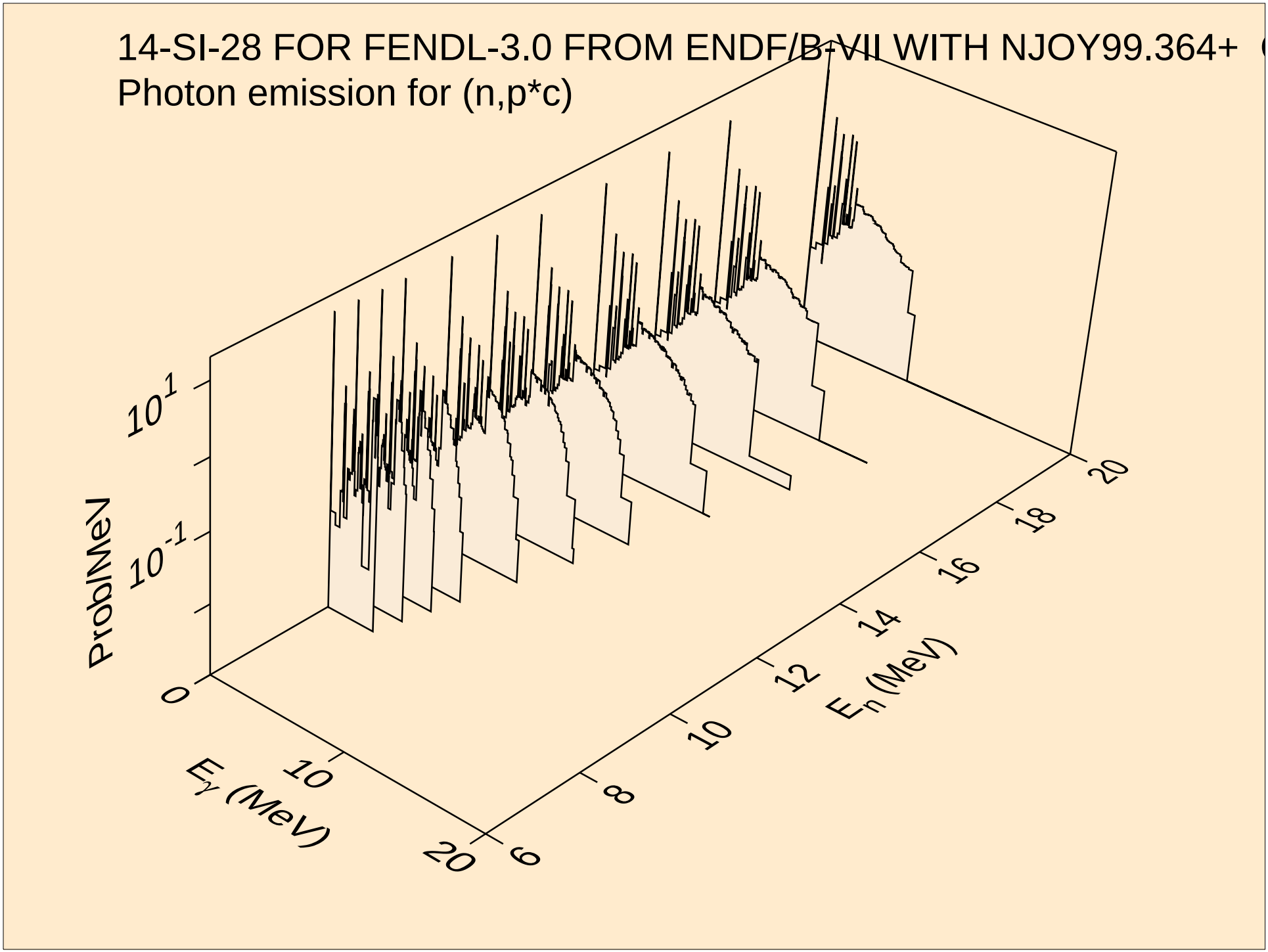

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
E_γ (MeV)
0
20
40
60
80
100
120
140
160
E_n (MeV)

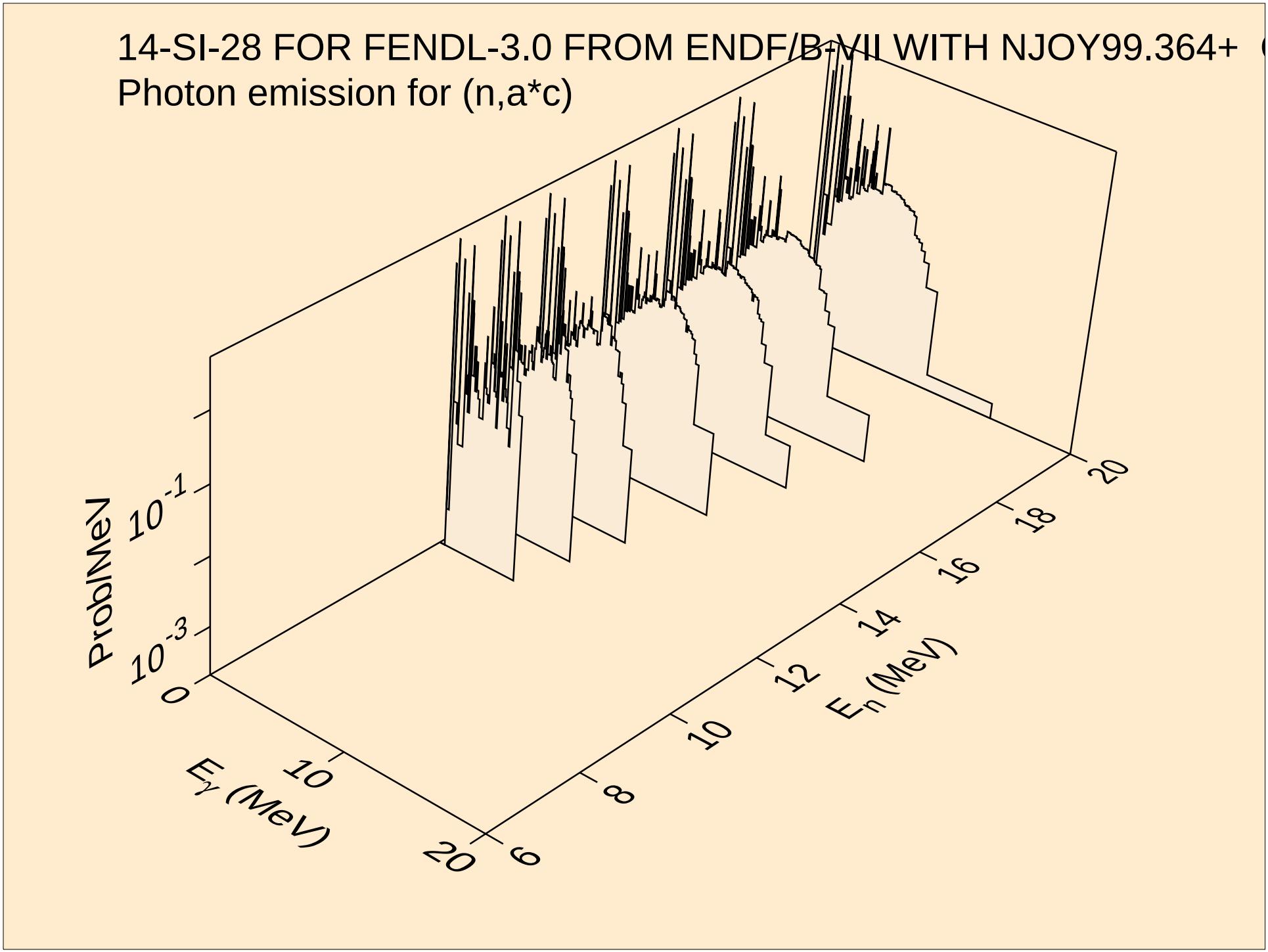

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,2n)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
E_n (MeV)

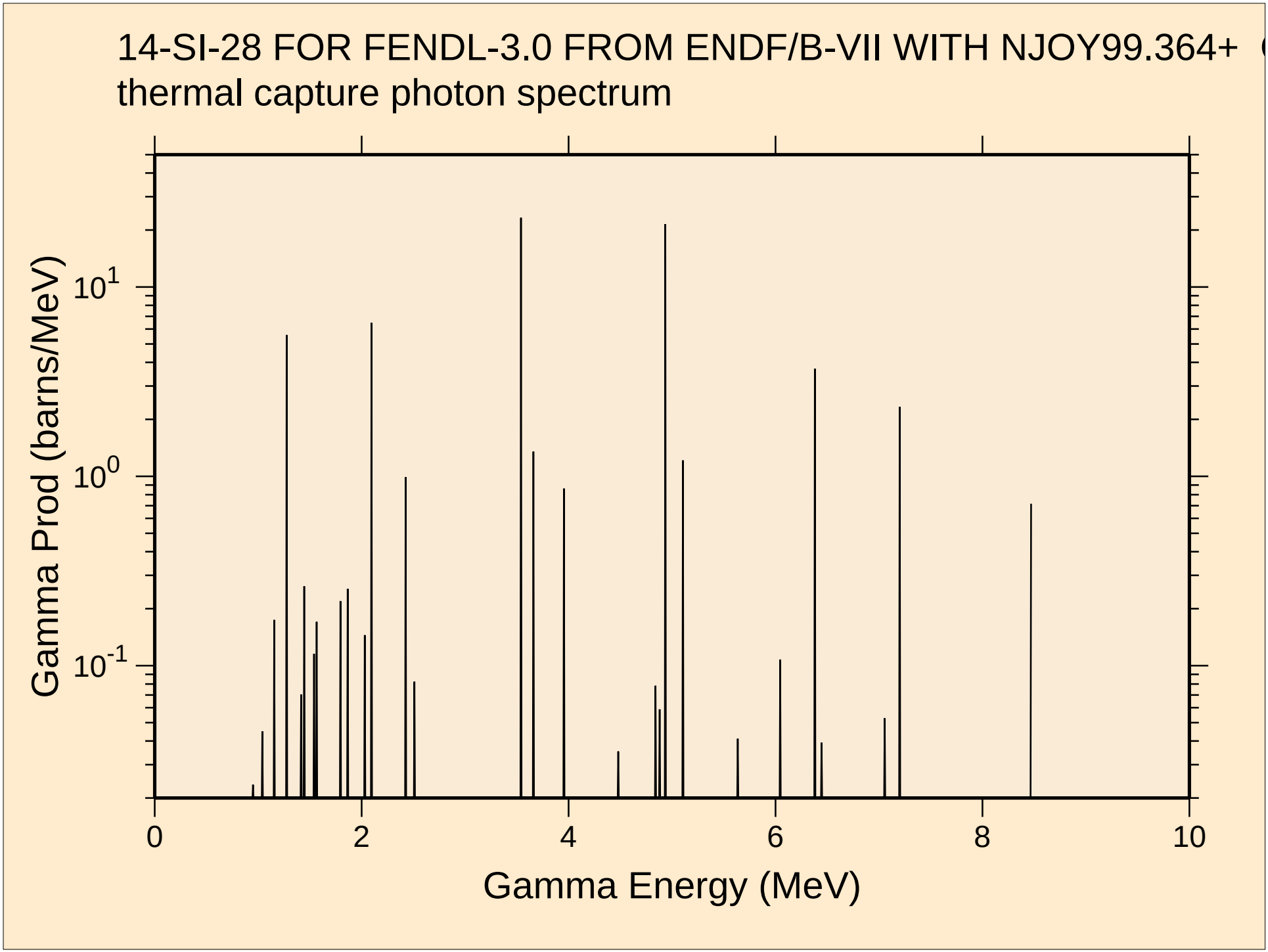

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,n*)a
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
E_γ (MeV)
10
12
14
16
18
20
E_n (MeV)

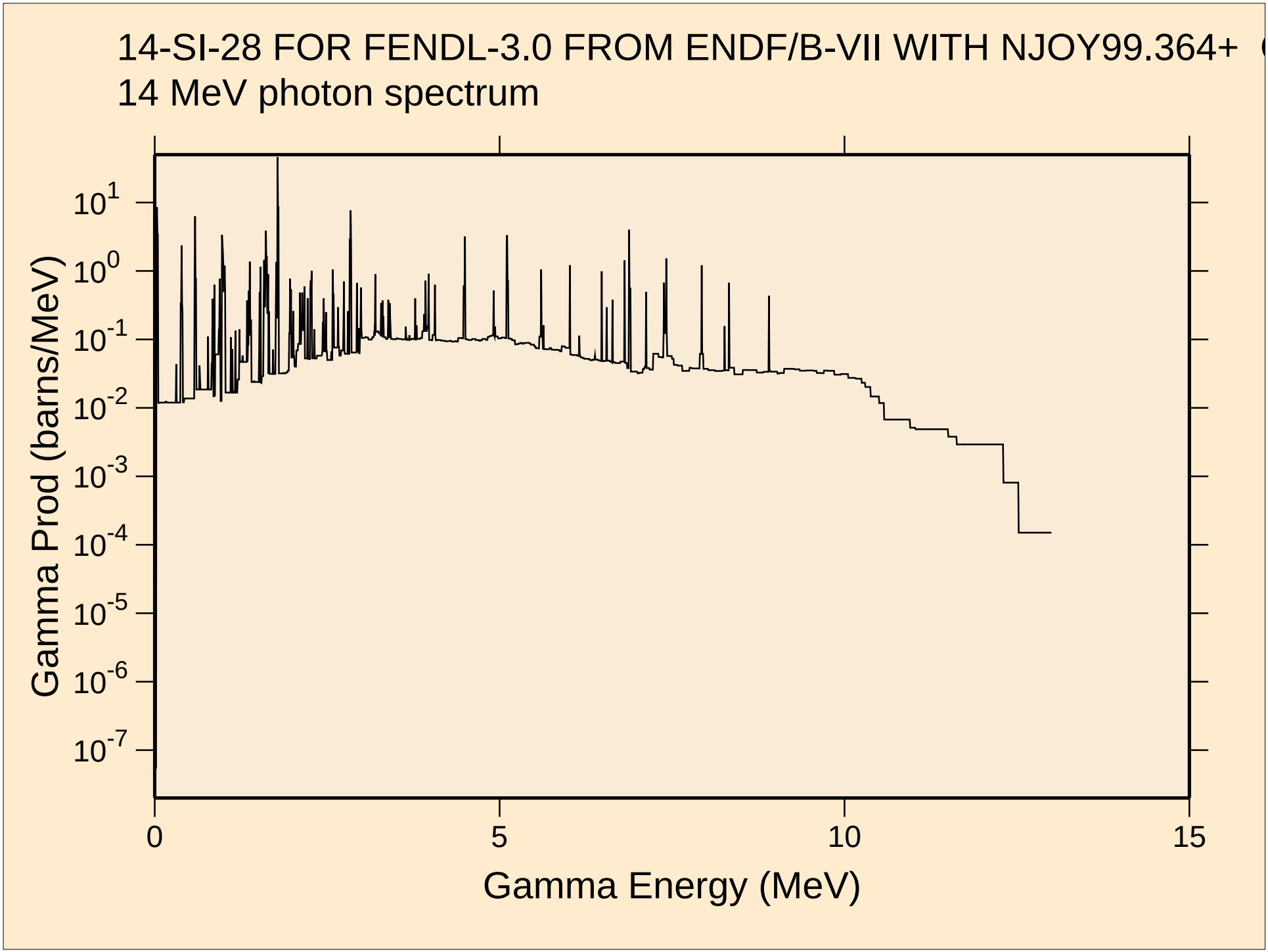

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,n*)p
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
5
10
12
14
16
18
20
E_n (MeV)

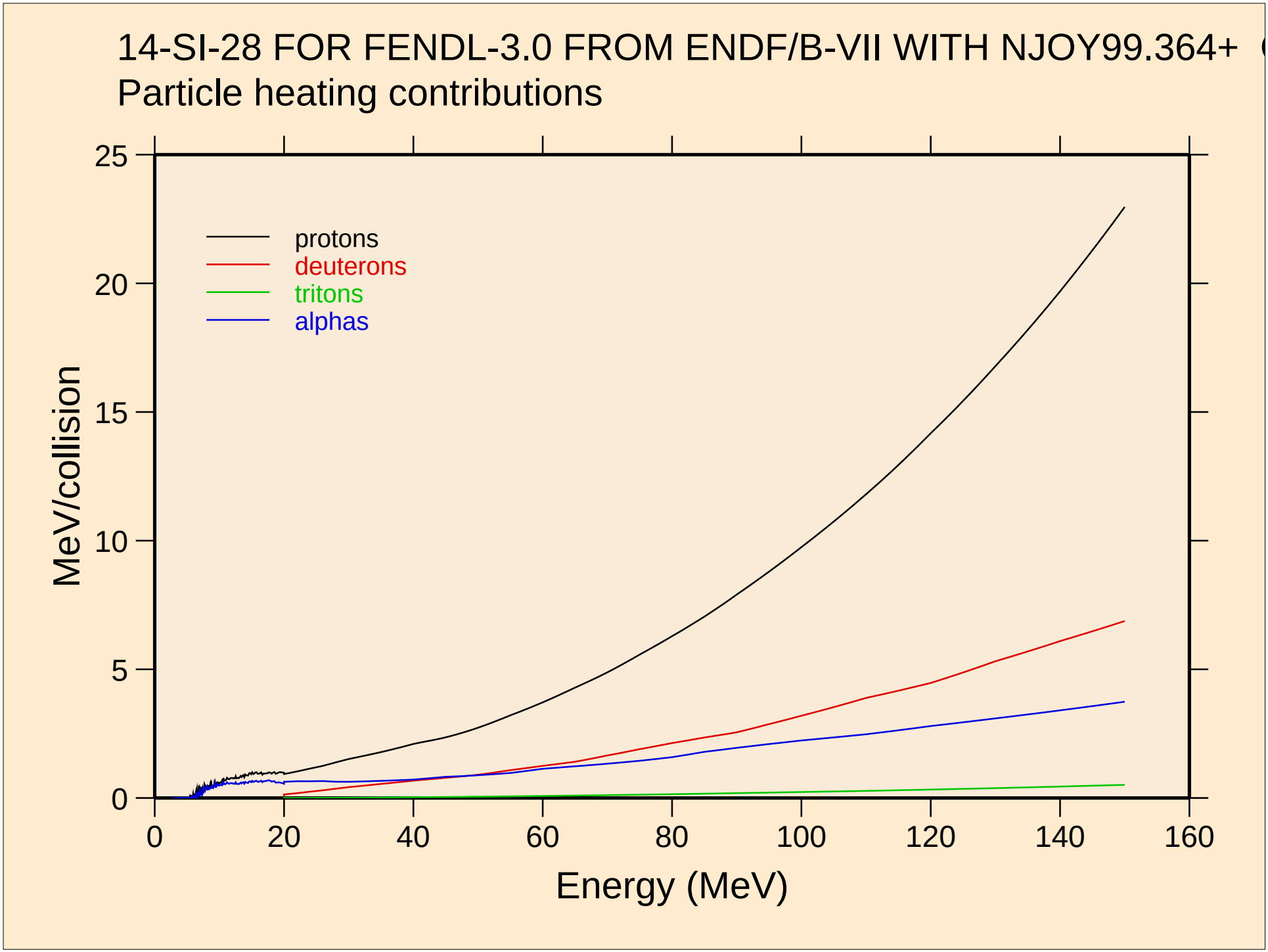

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,n*c)
Prob/MeV
10^{1}
10^{-1}
0
10
20
E_γ (MeV)
8
10
12
14
16
18
20
E_n (MeV)

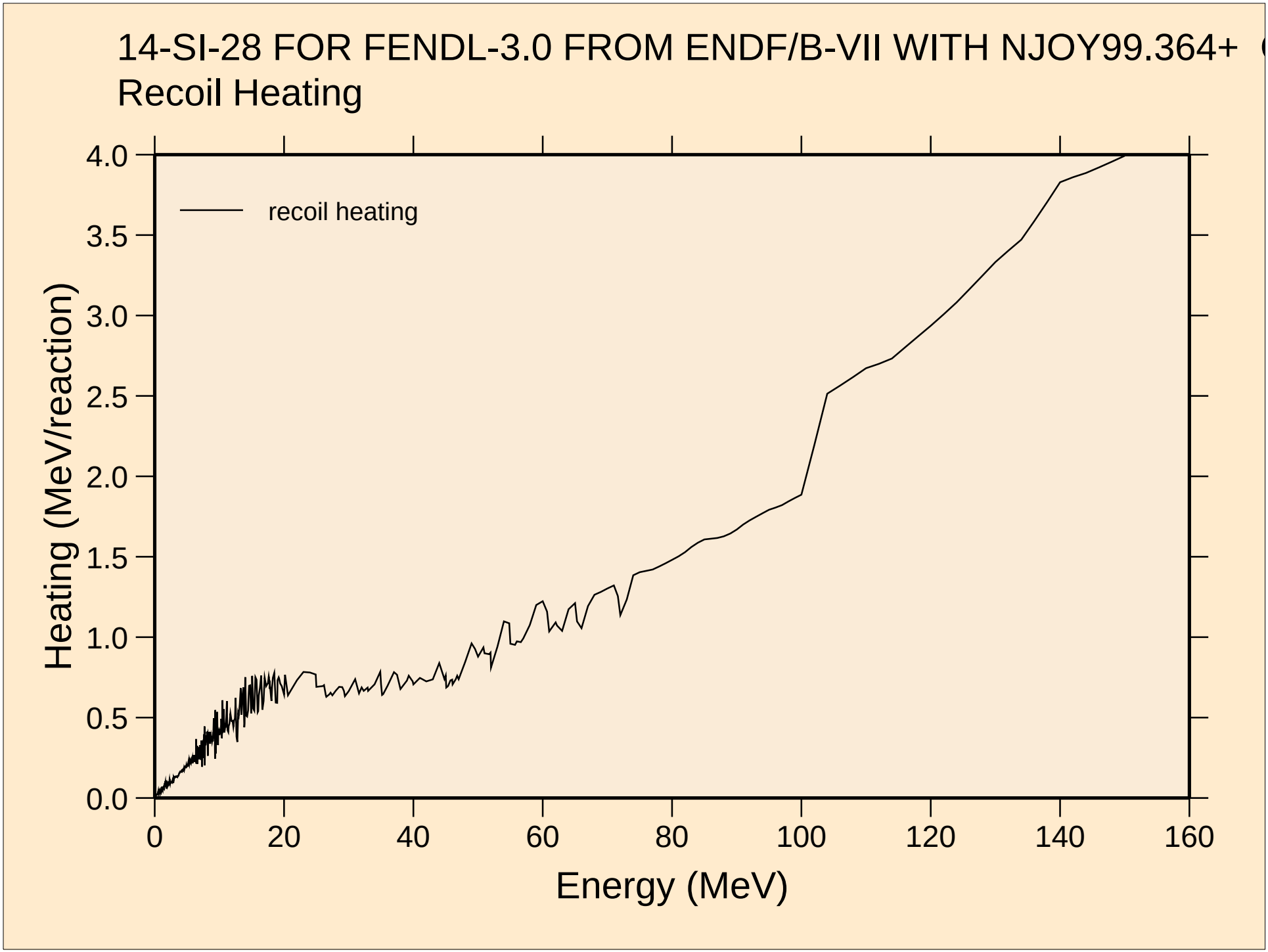

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,p*c)
Prob/MeV
10^{1}
10^{-1}
0
10
20
E_γ (MeV)
6
8
10
12
14
16
18
20
E_n (MeV)

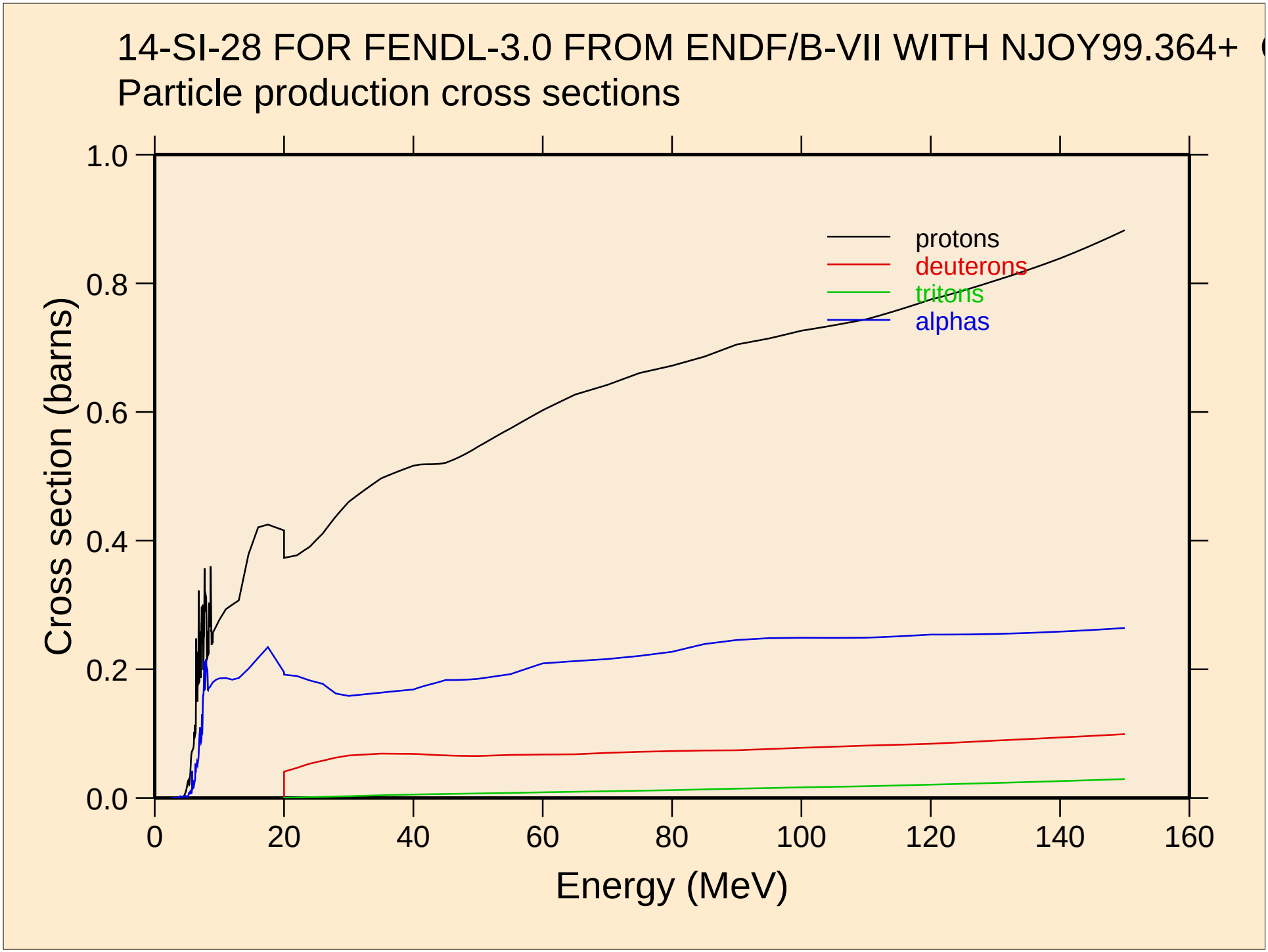

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,a*c)
Prob/MeV
10^-1
10^-3
0
10
20
Eγ (MeV)
6
8
10
12
14
16
18
20
En (MeV)

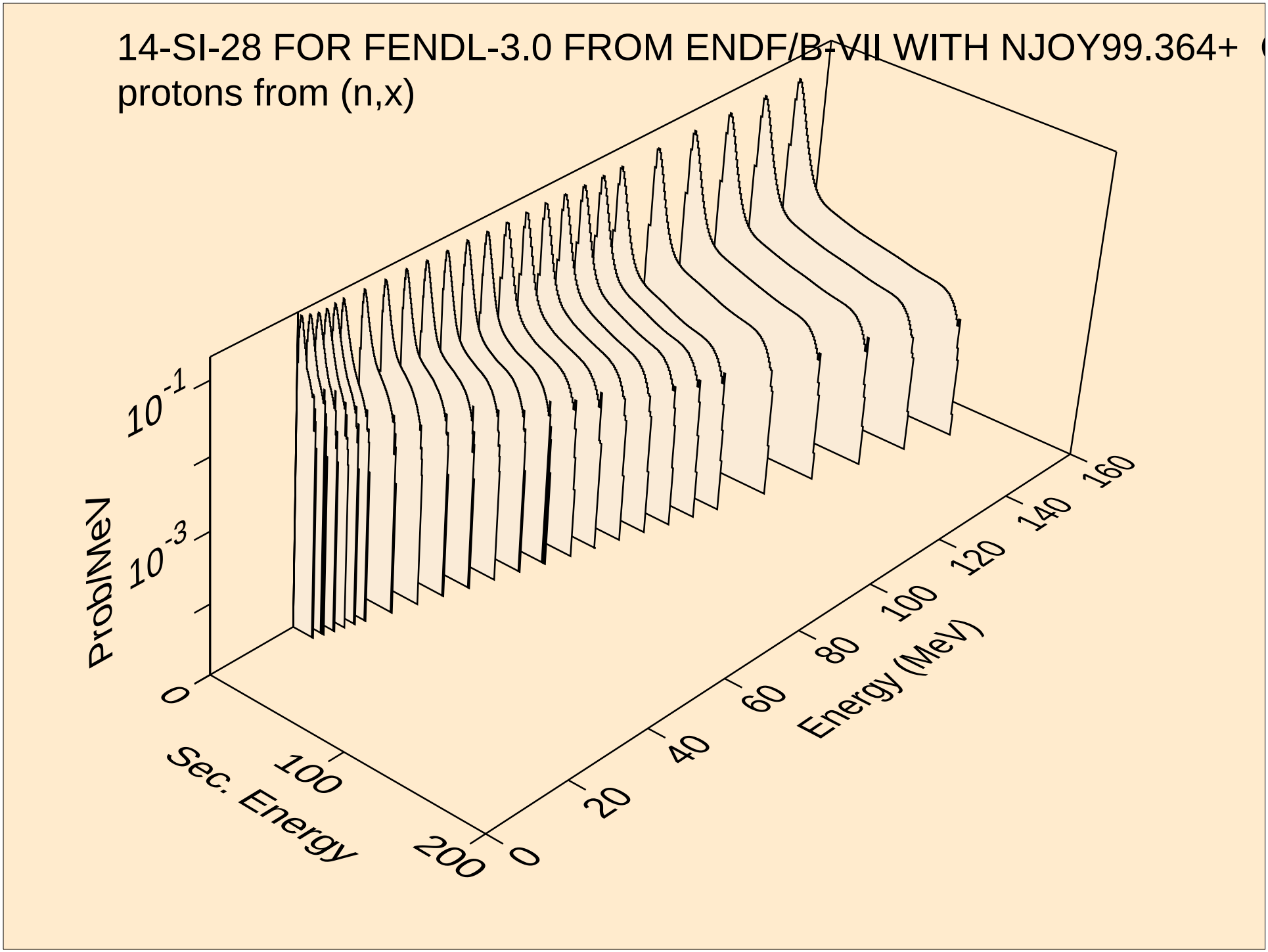

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10^1
10^0
10^-1
0
2
4
6
8
10
Gamma Energy (MeV)

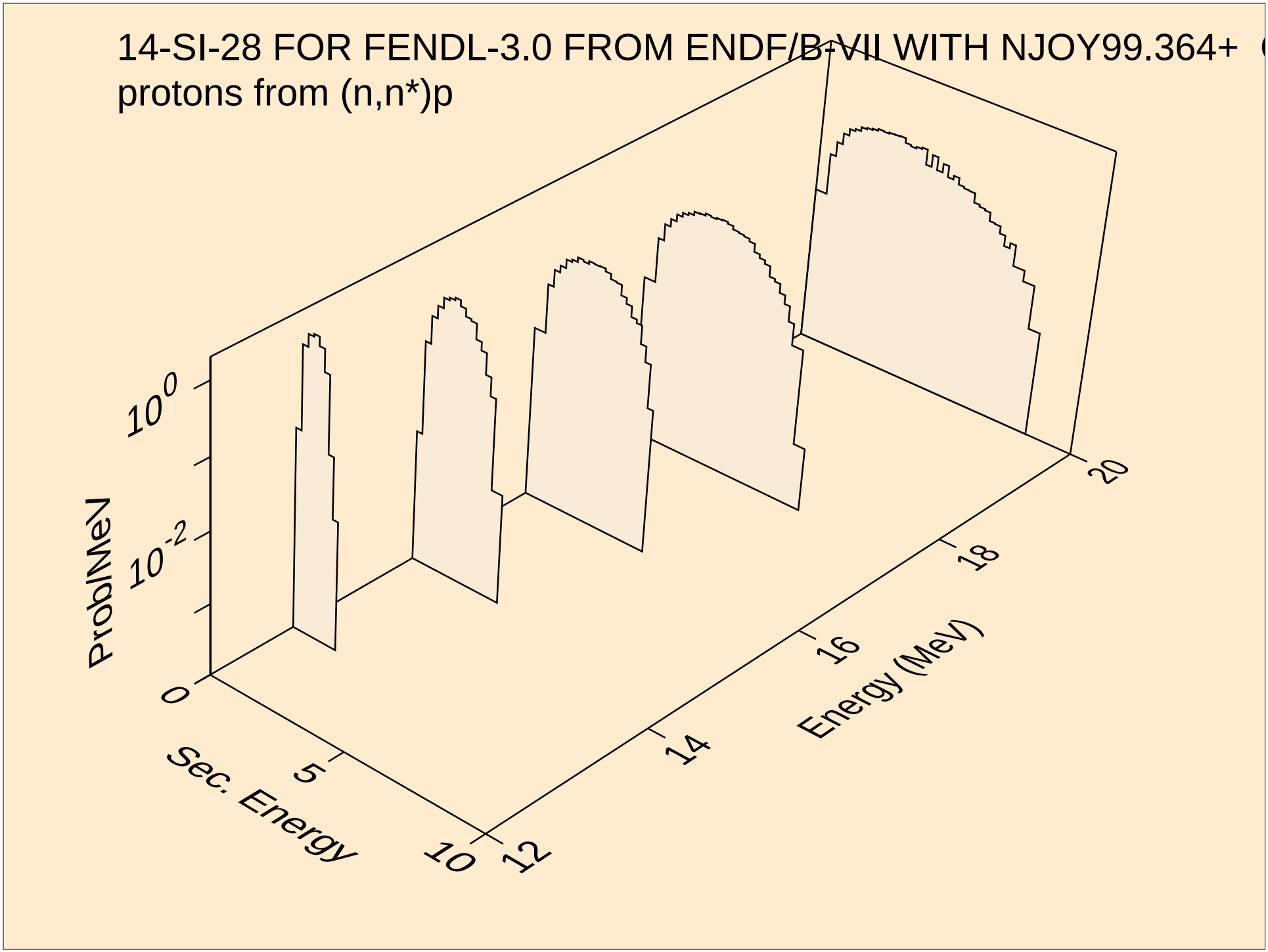

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
5
10
15
Gamma Energy (MeV)

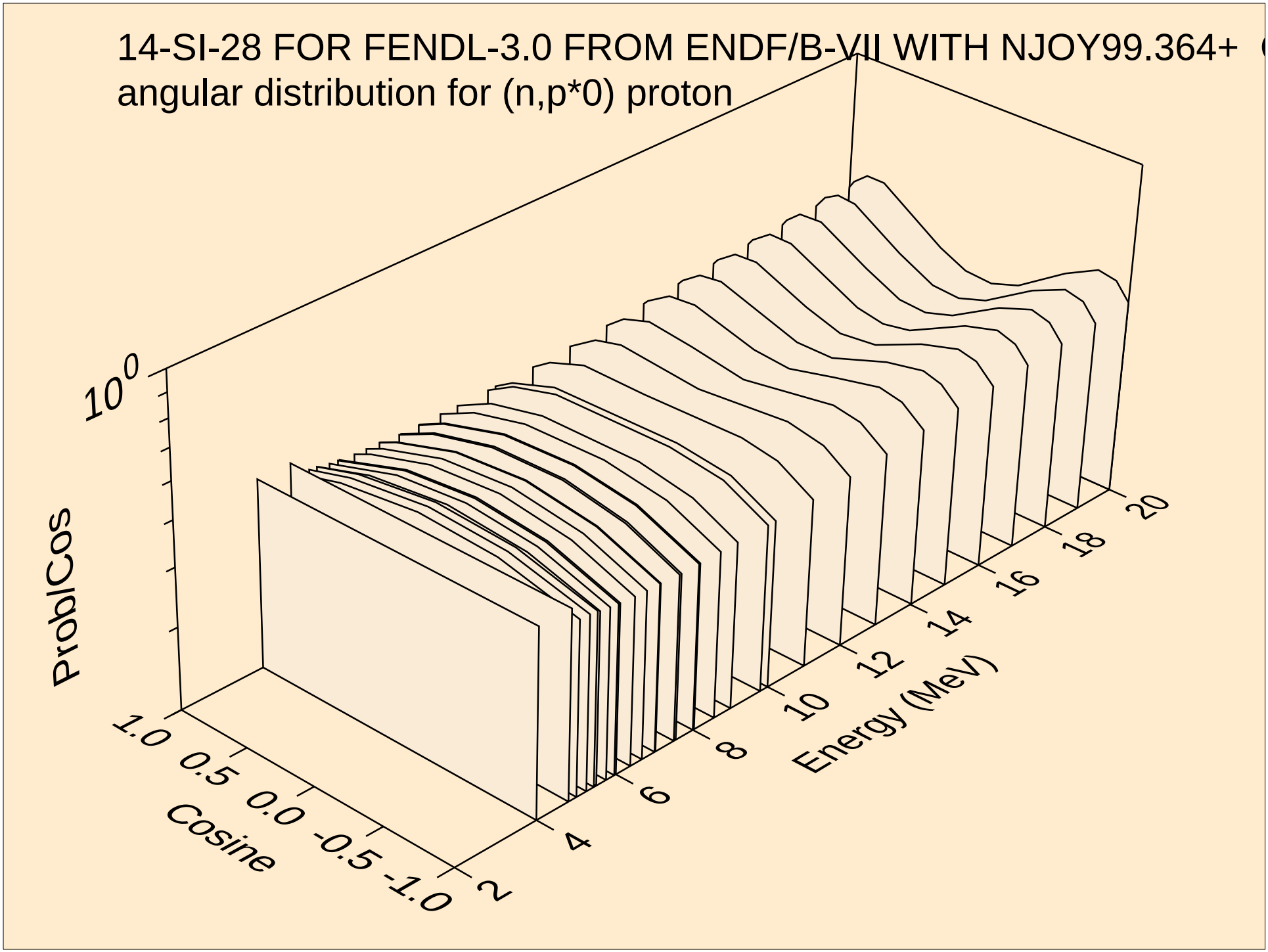

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Particle heating contributions
protons
deuterons
tritons
alphas
MeV/collision
Energy (MeV)
0
5
10
15
20
25
0
20
40
60
80
100
120
140
160

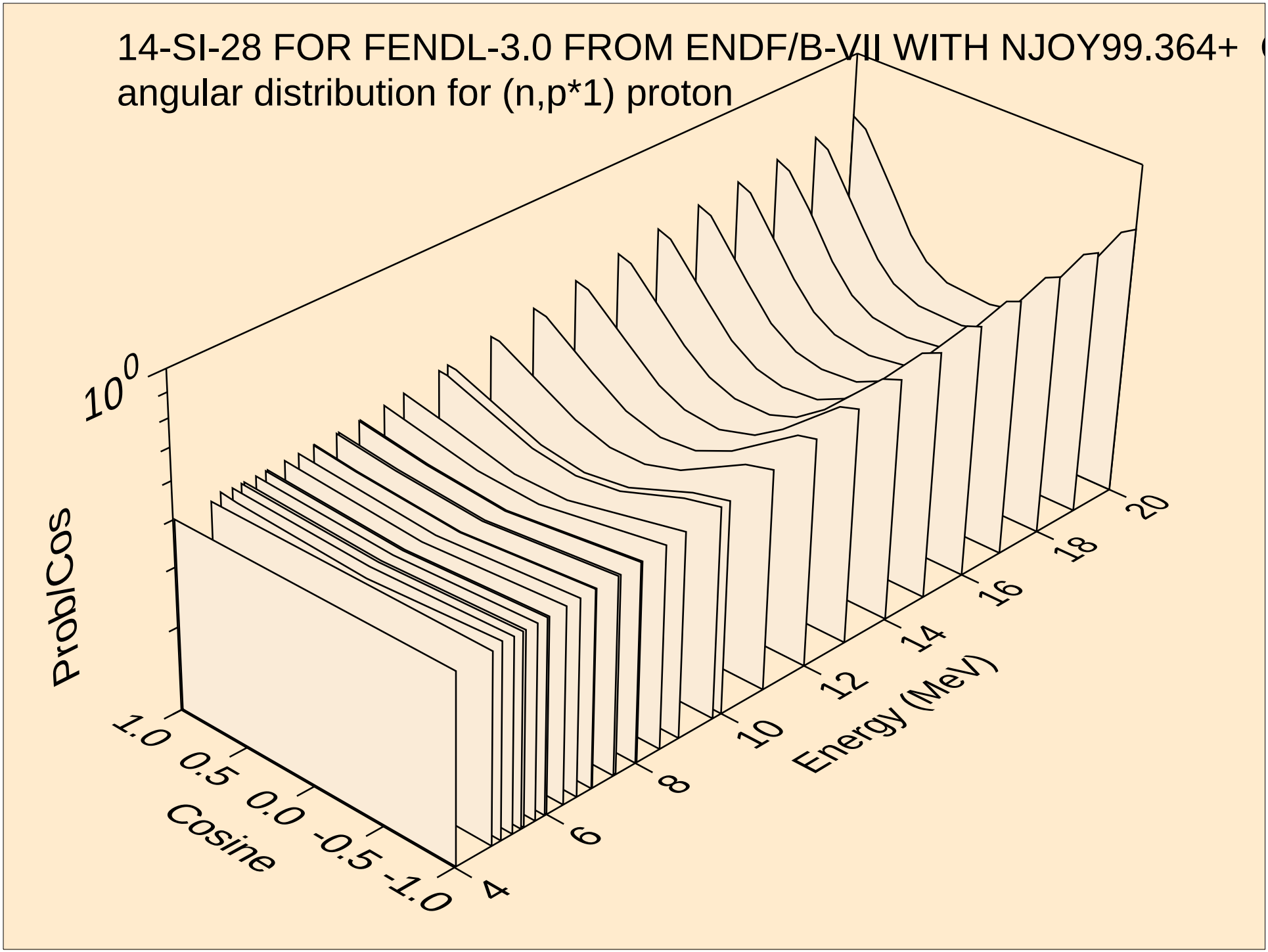

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
0
20
40
60
80
100
120
140
160

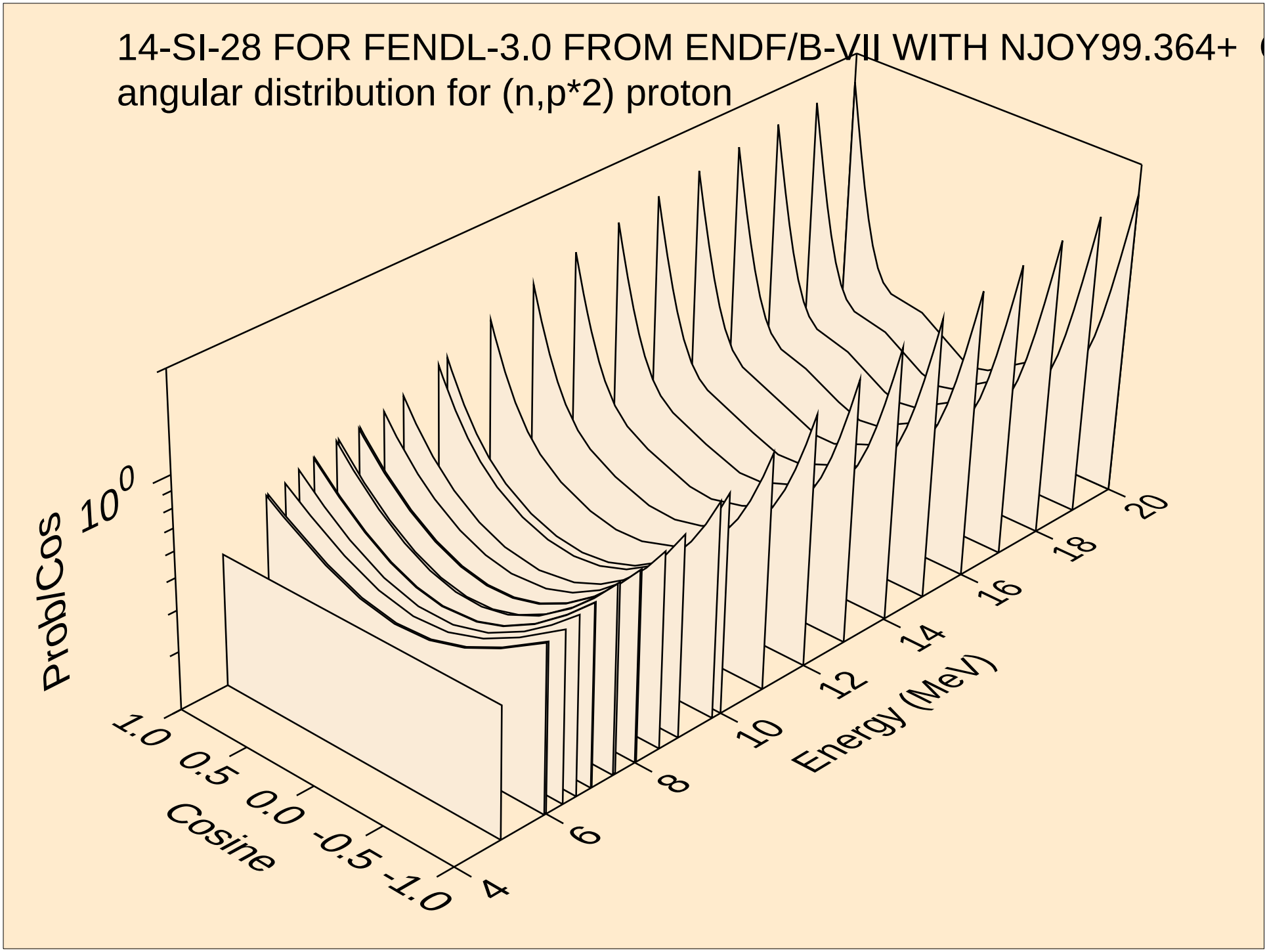

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Particle production cross sections
Cross section (barns)
Energy (MeV)
protons
deuterons
tritons
alphas
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
120
140
160

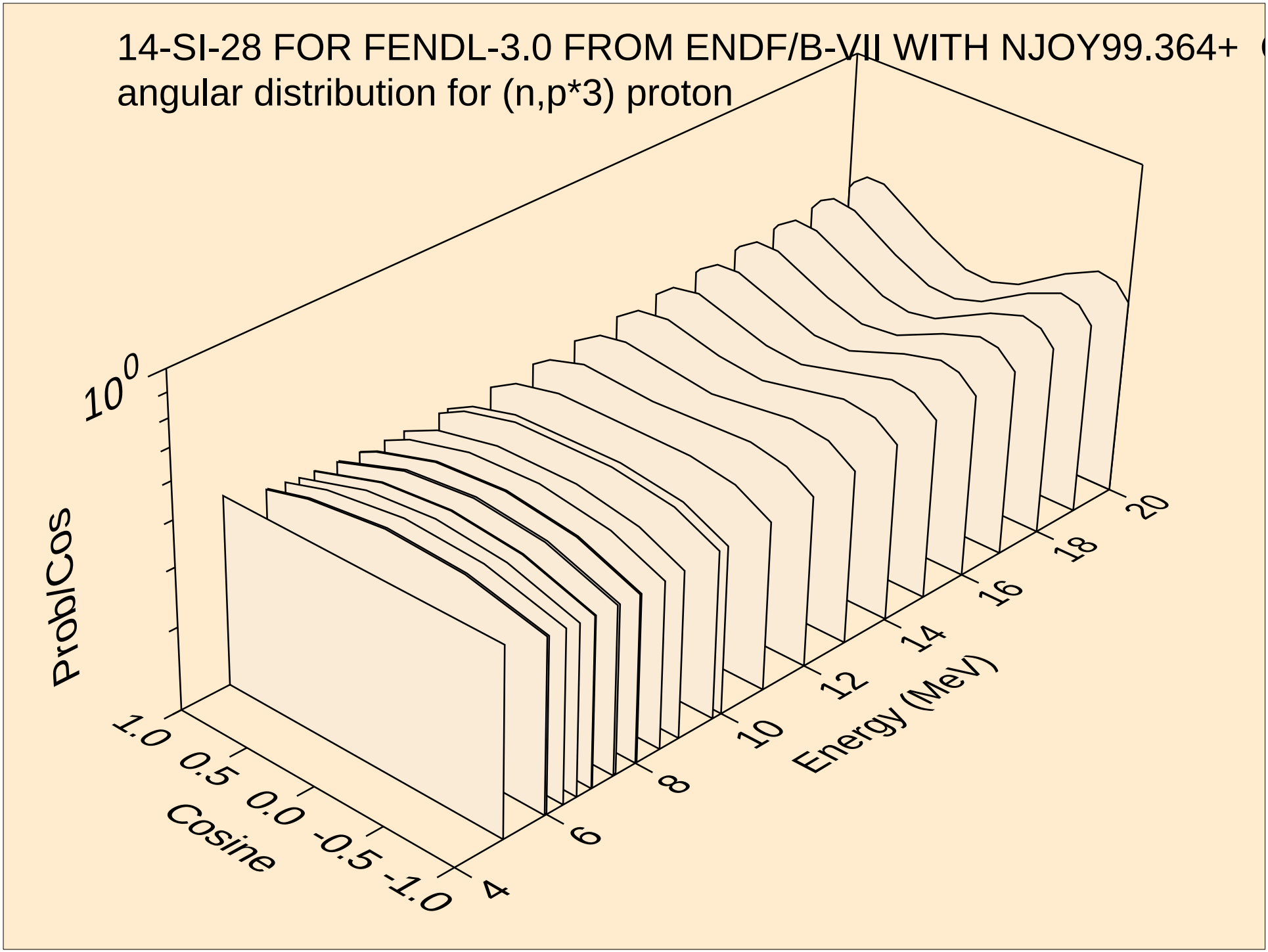

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
protons from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)

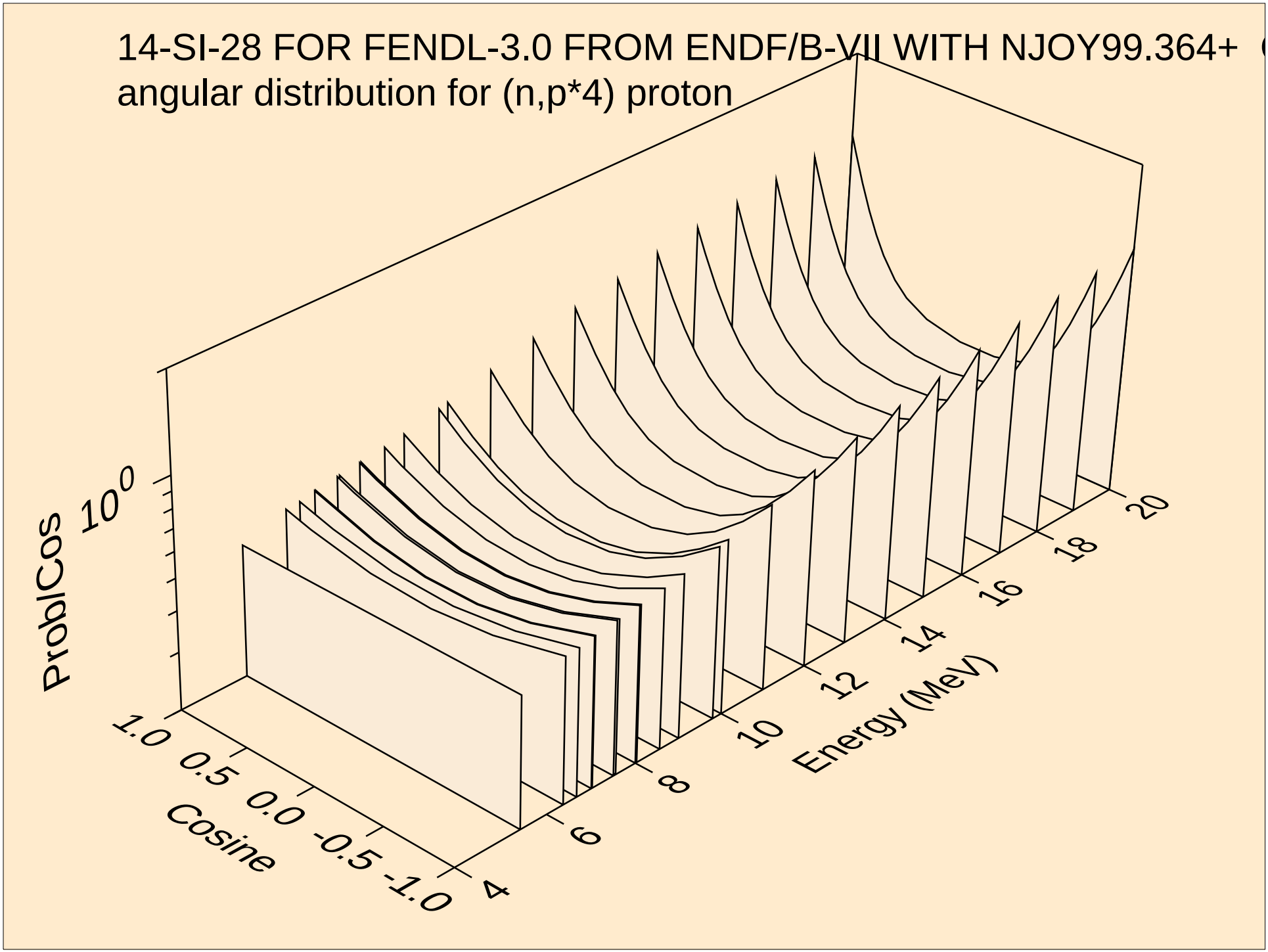

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
protons from (n,n*)p
Prob/MeV
10^0
10^-2
0
5
10
12
Sec. Energy
14
16
18
20
Energy (MeV)

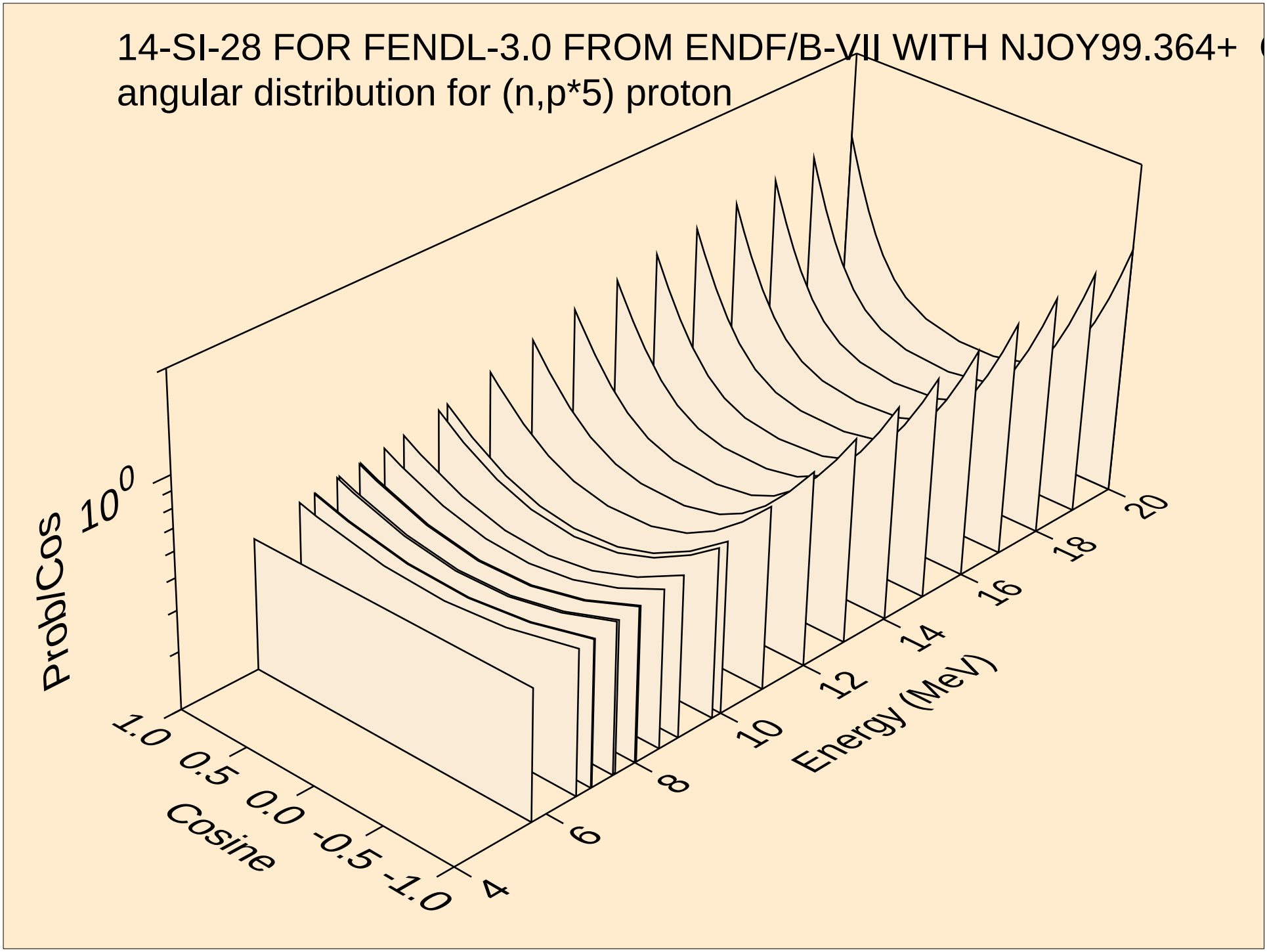

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*0) proton
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
2
4
6
8
10
12
14
16
18
20

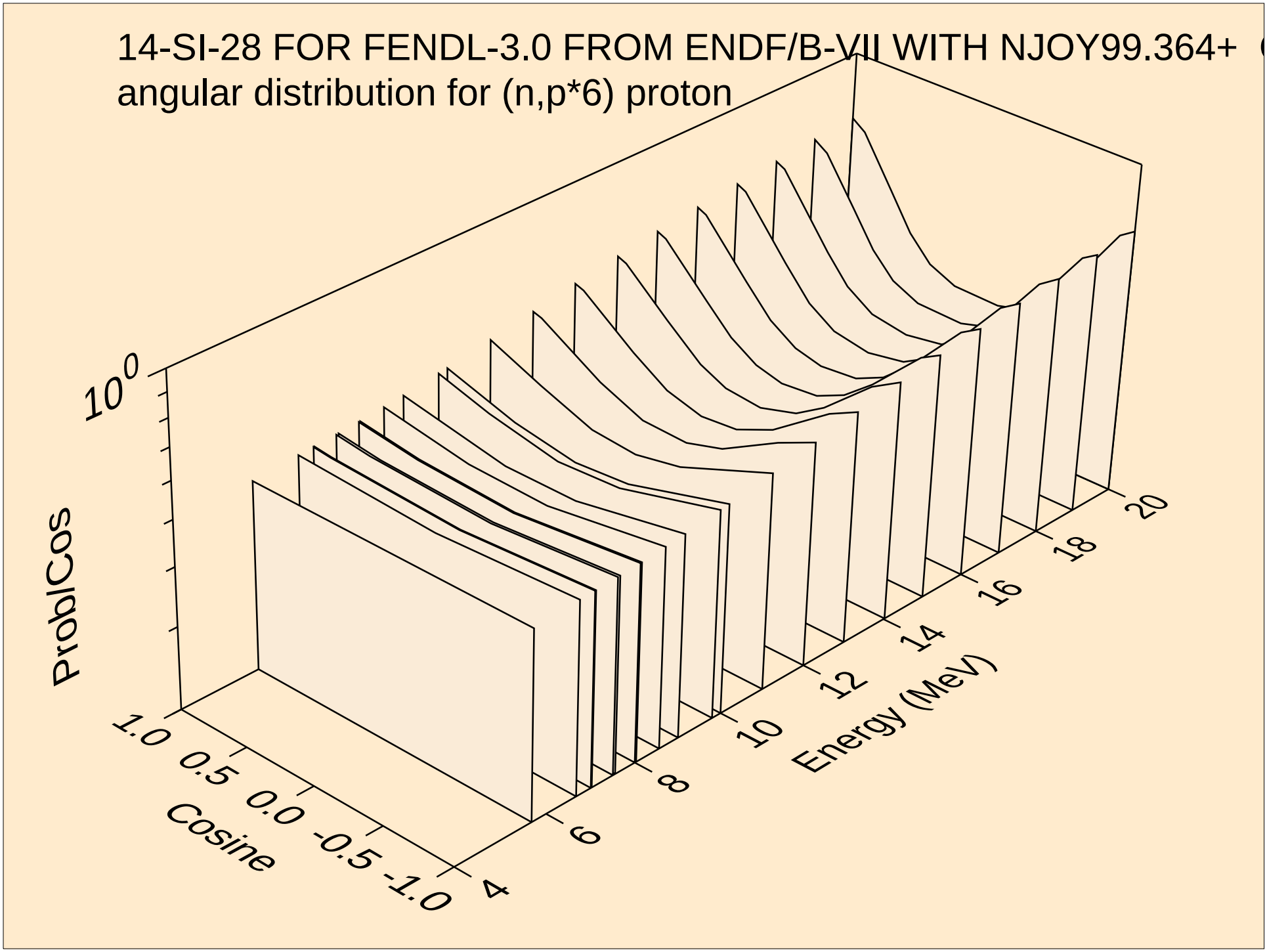

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*1) proton
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
4
6
8
10
12
14
16
18
20

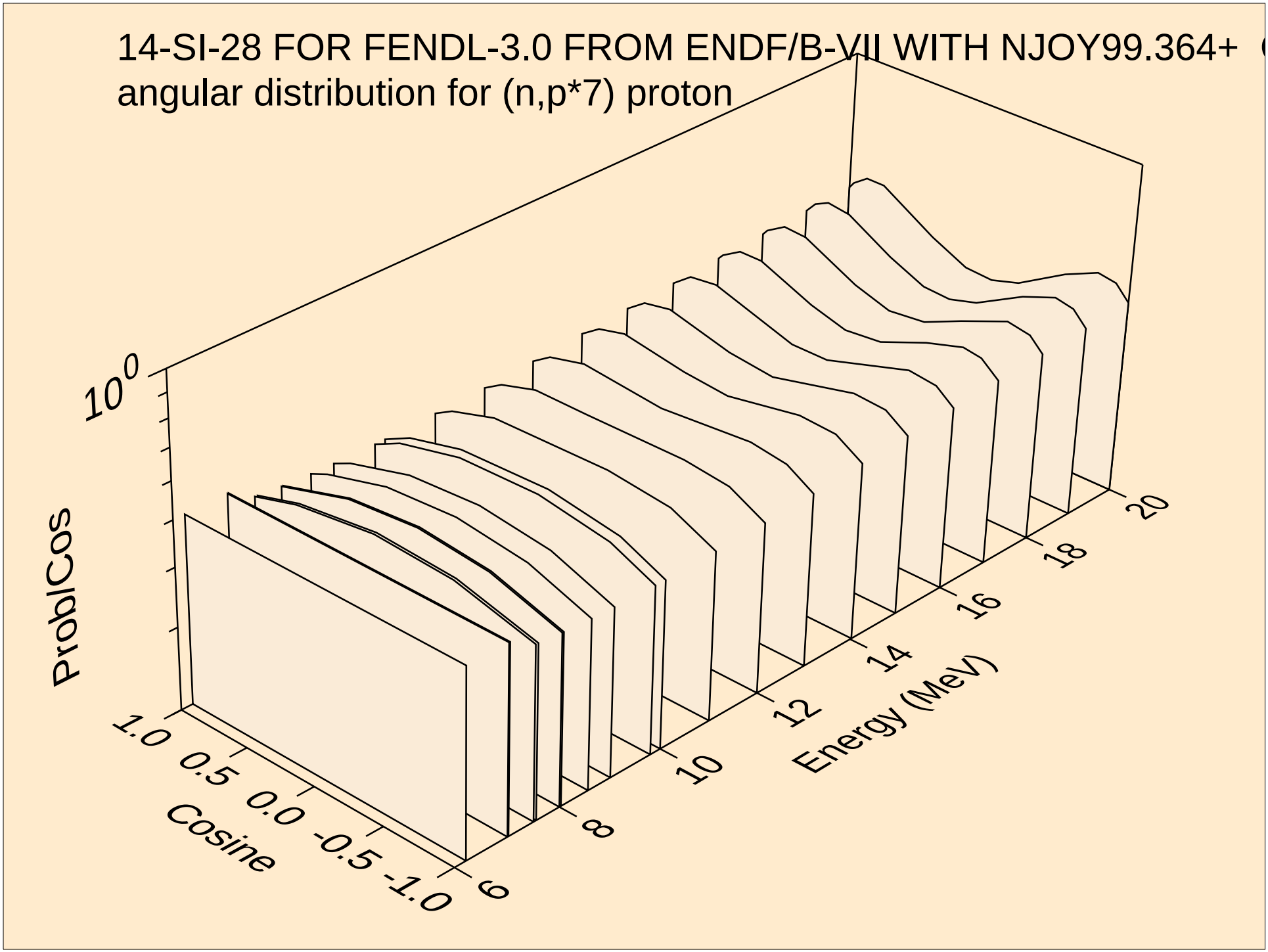

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*2) proton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

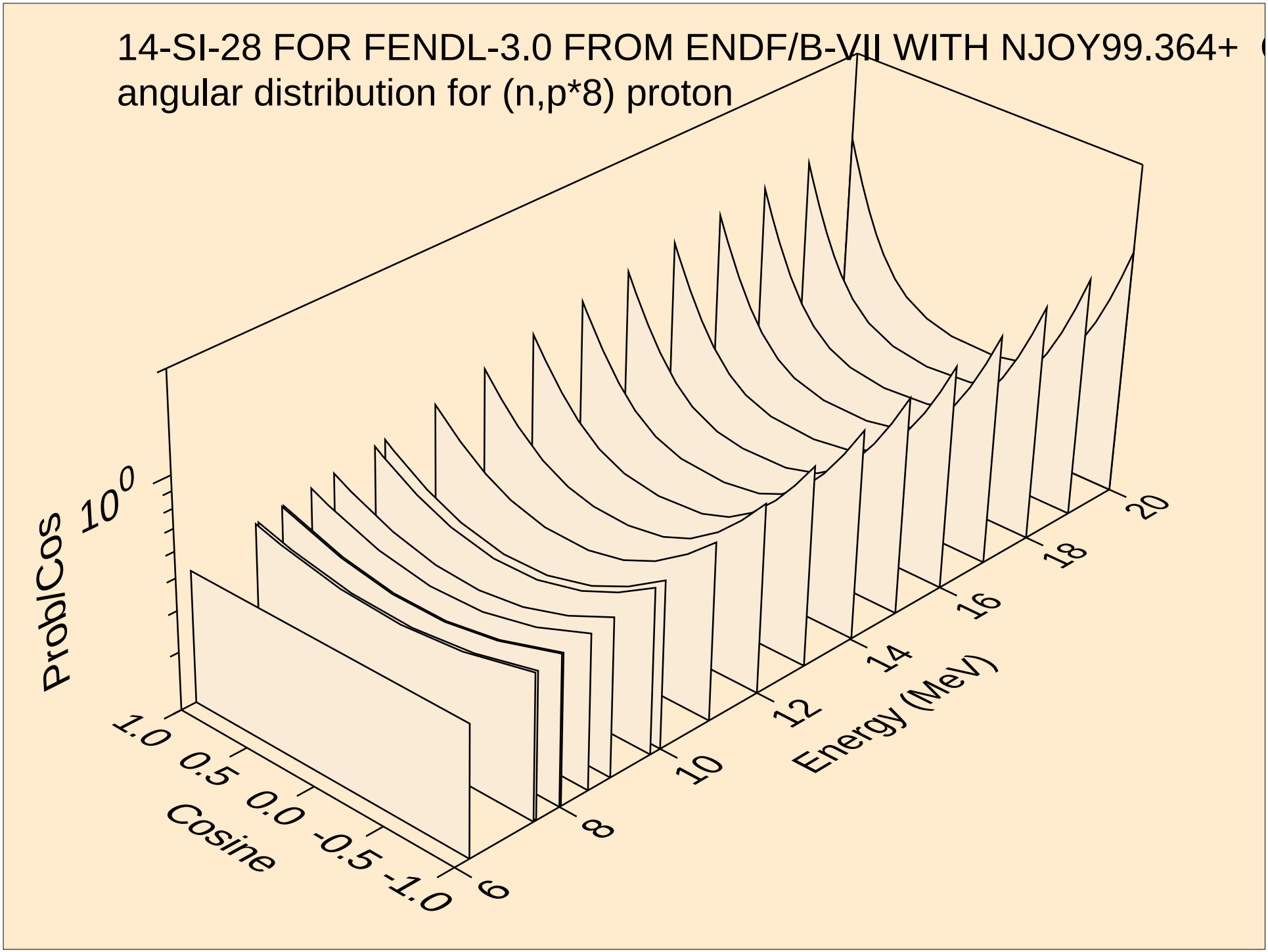

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*3) proton
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
4
6
8
10
12
14
16
18
20

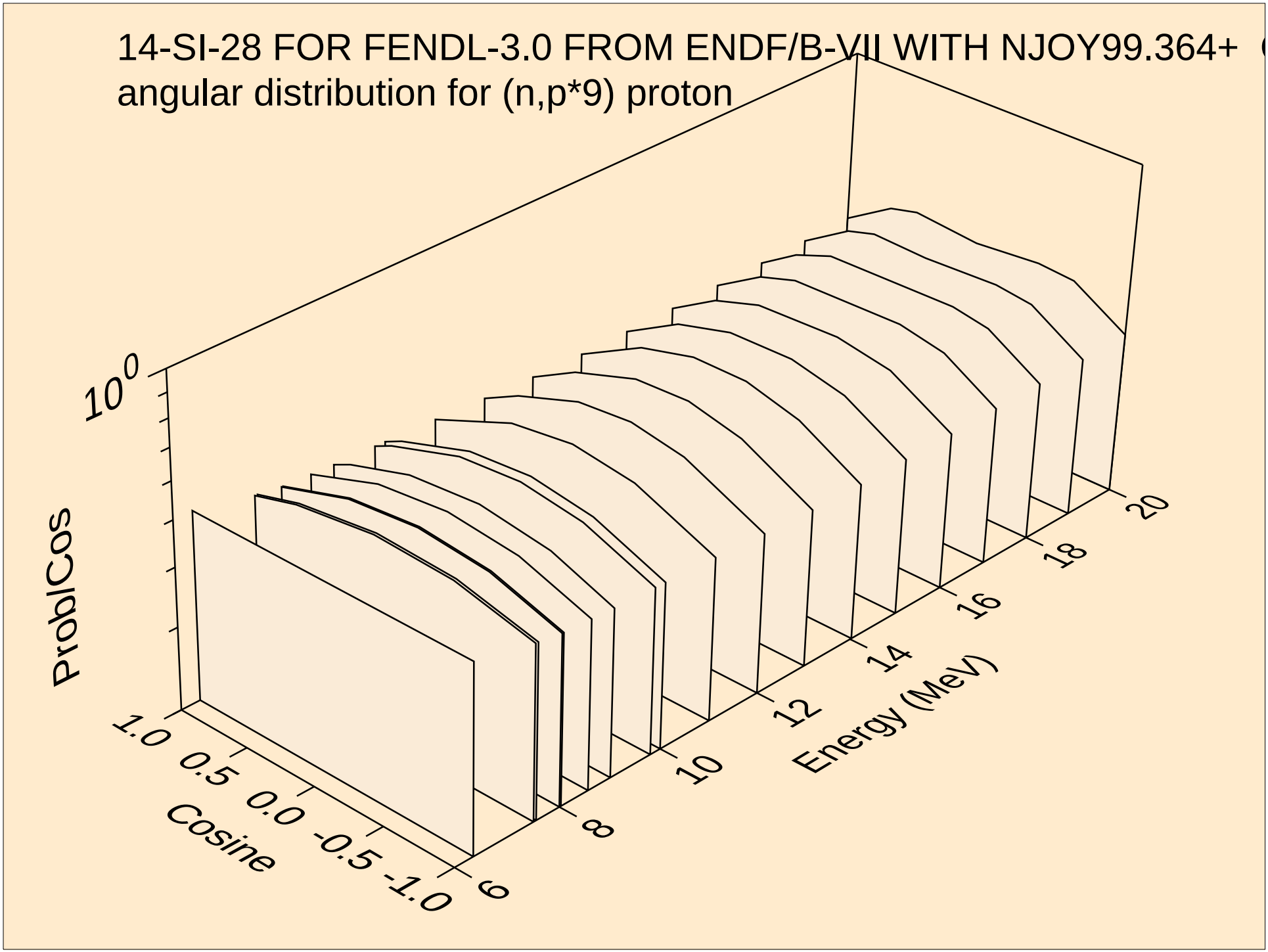

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*4) proton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

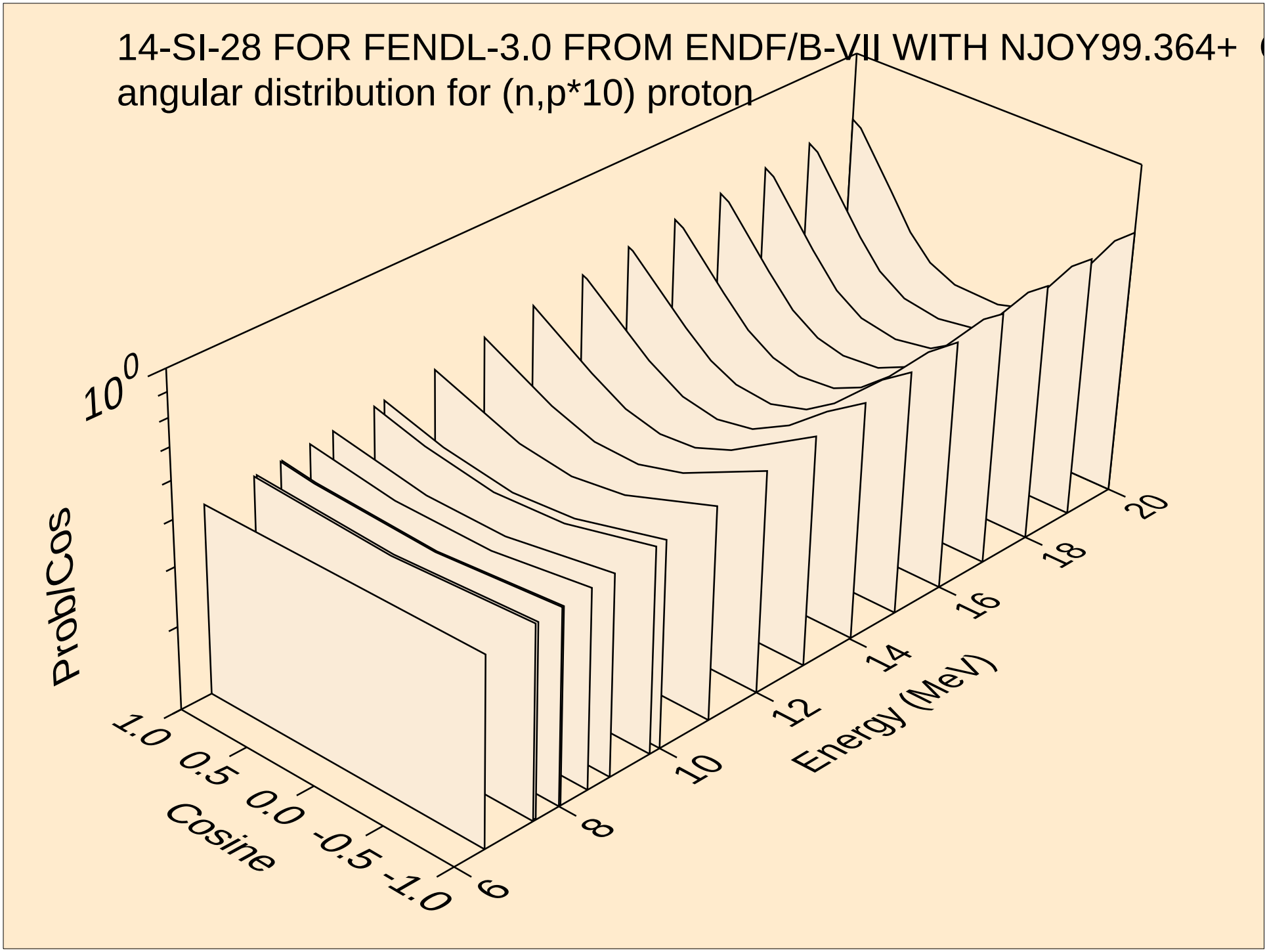

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*5) proton
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

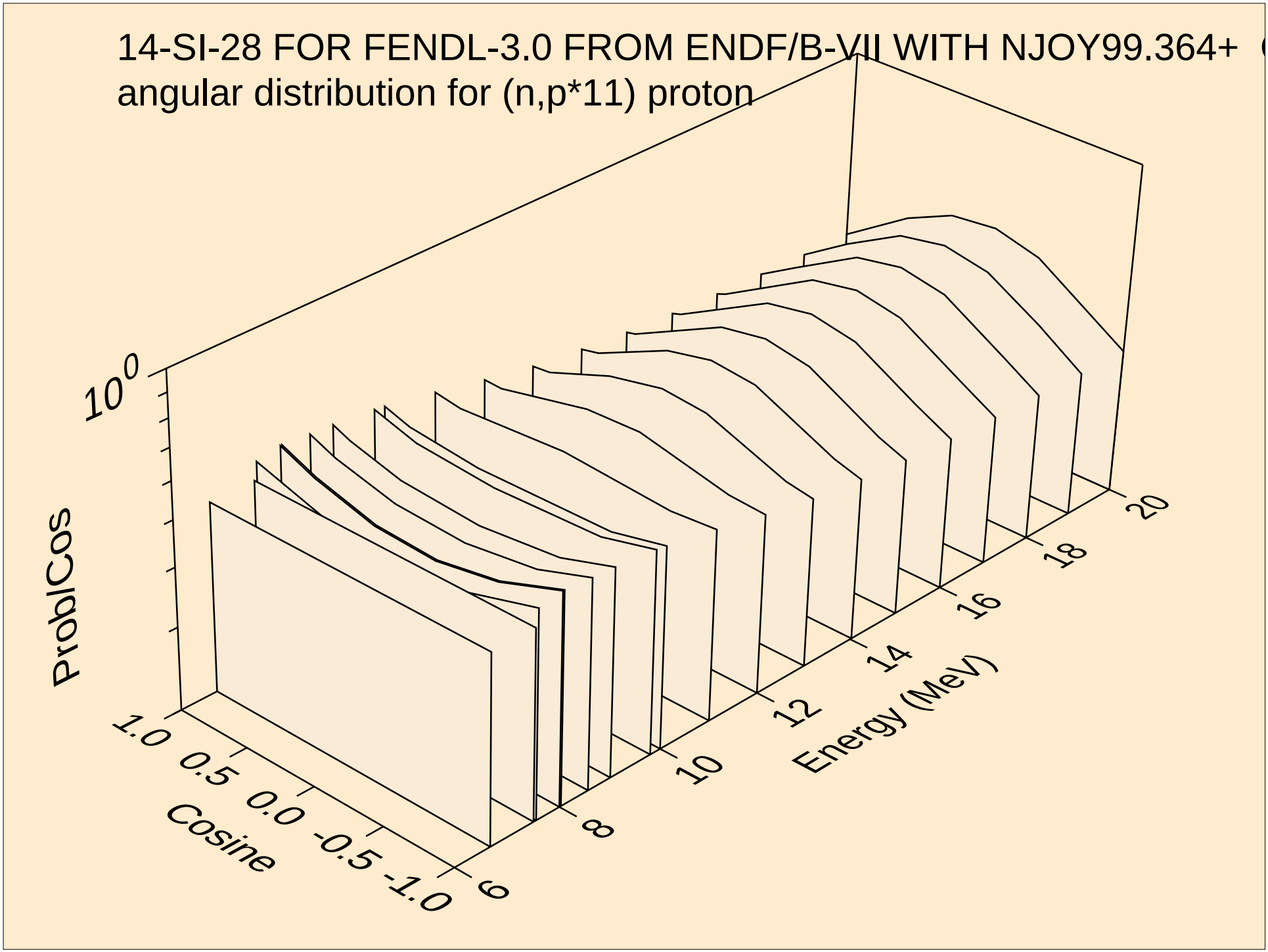

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*6) proton
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
4
6
8
10
12
14
16
18
20

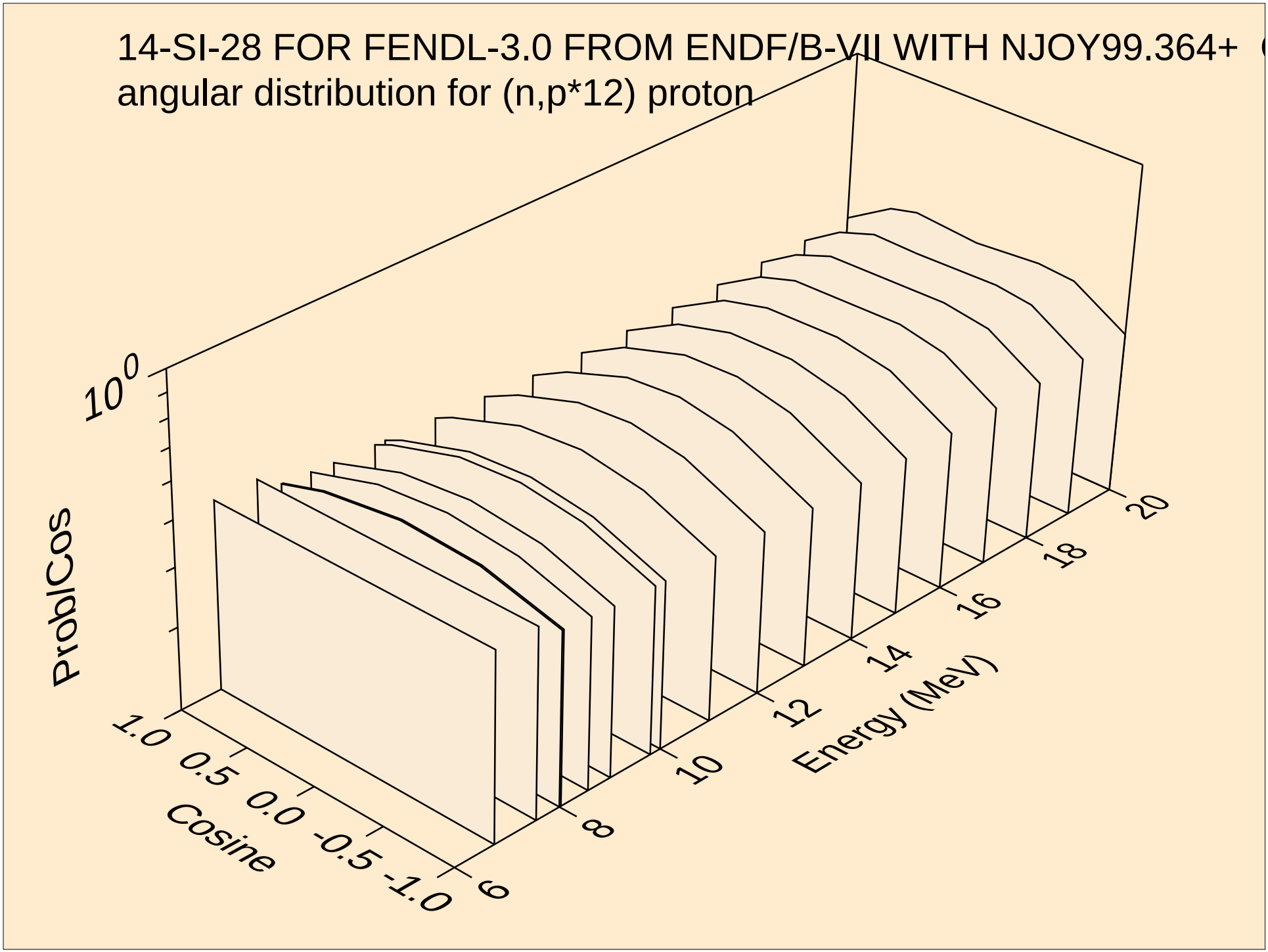

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*7) proton
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

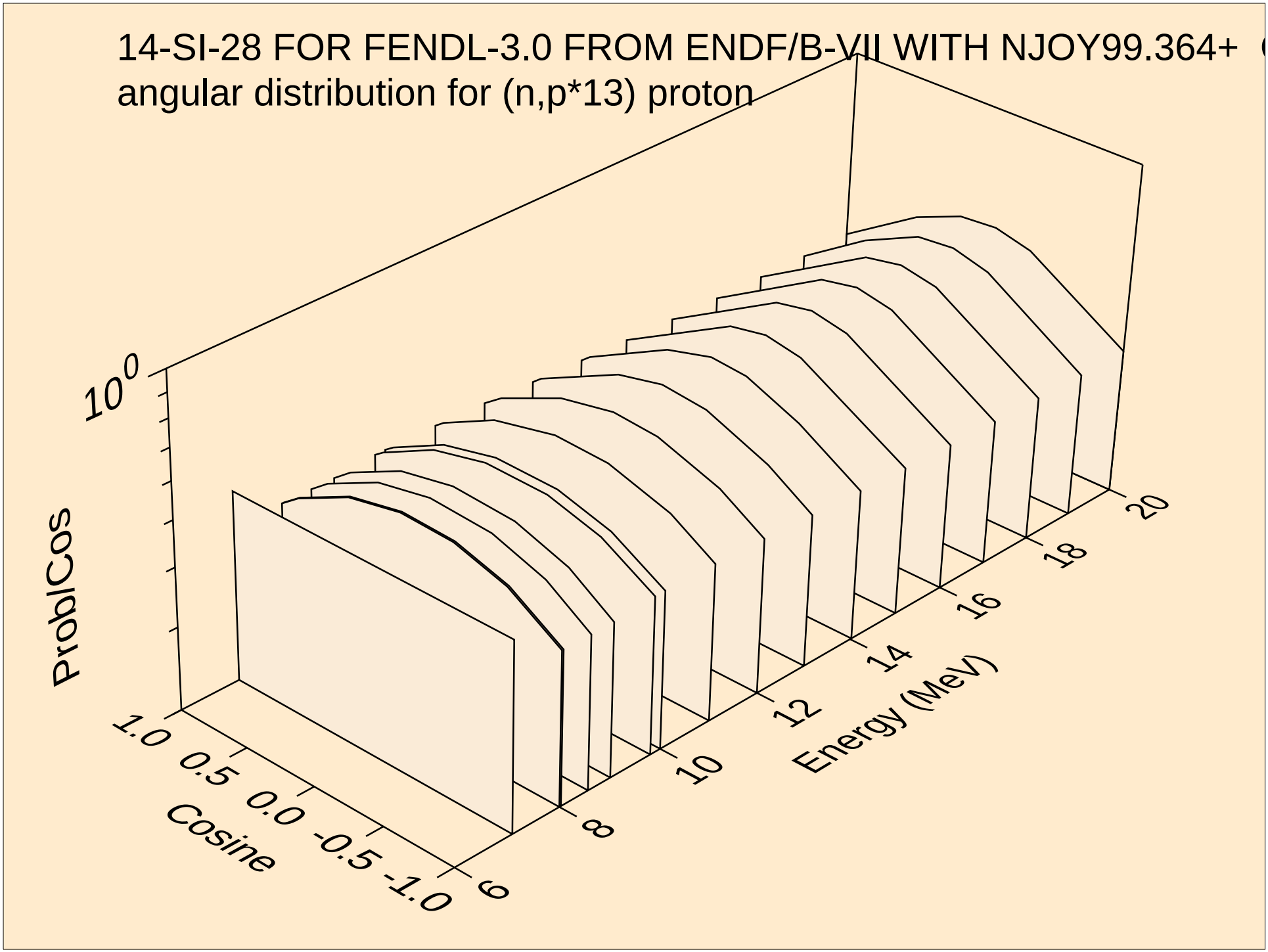

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*8) proton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

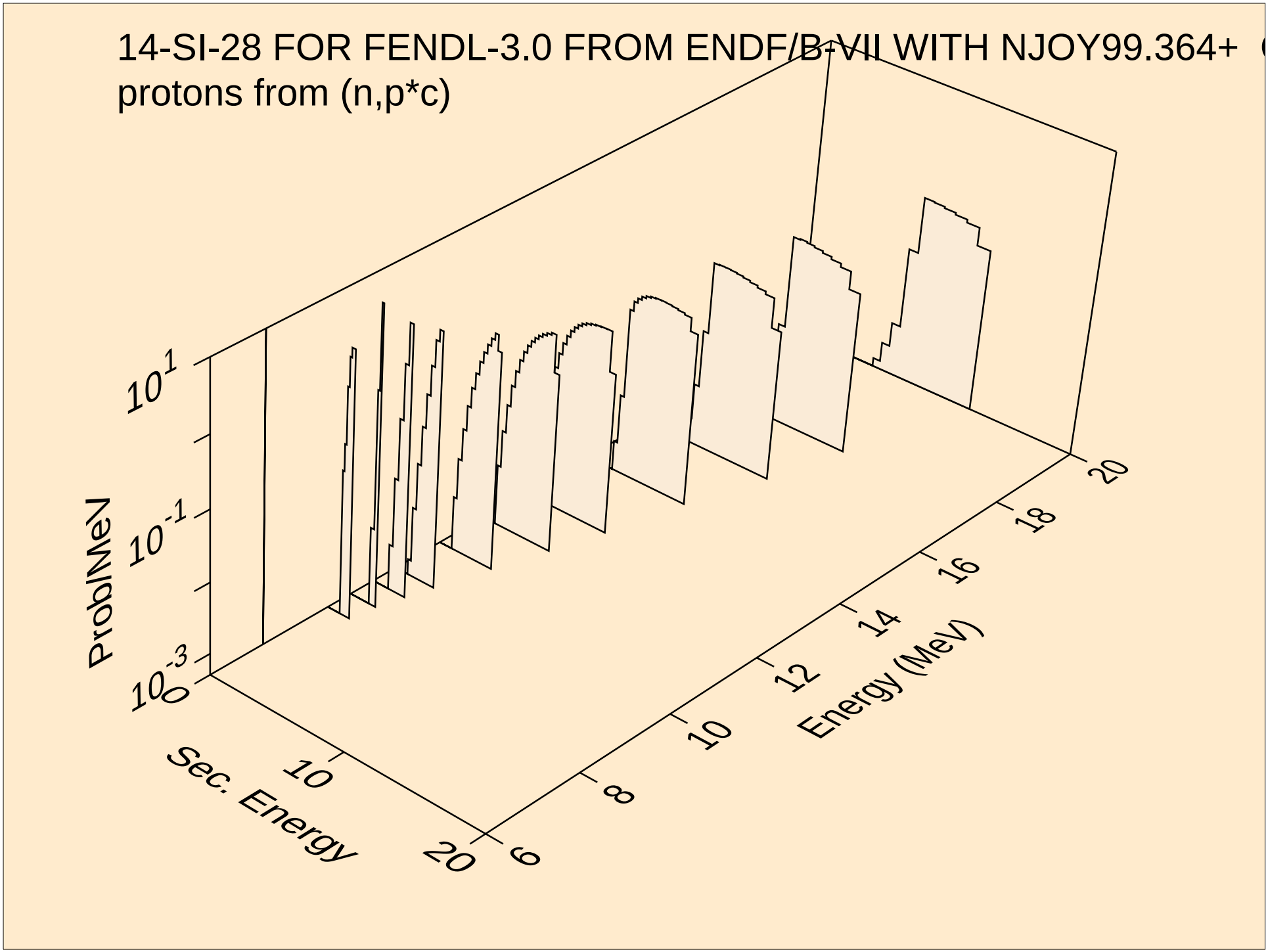

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*9) proton
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

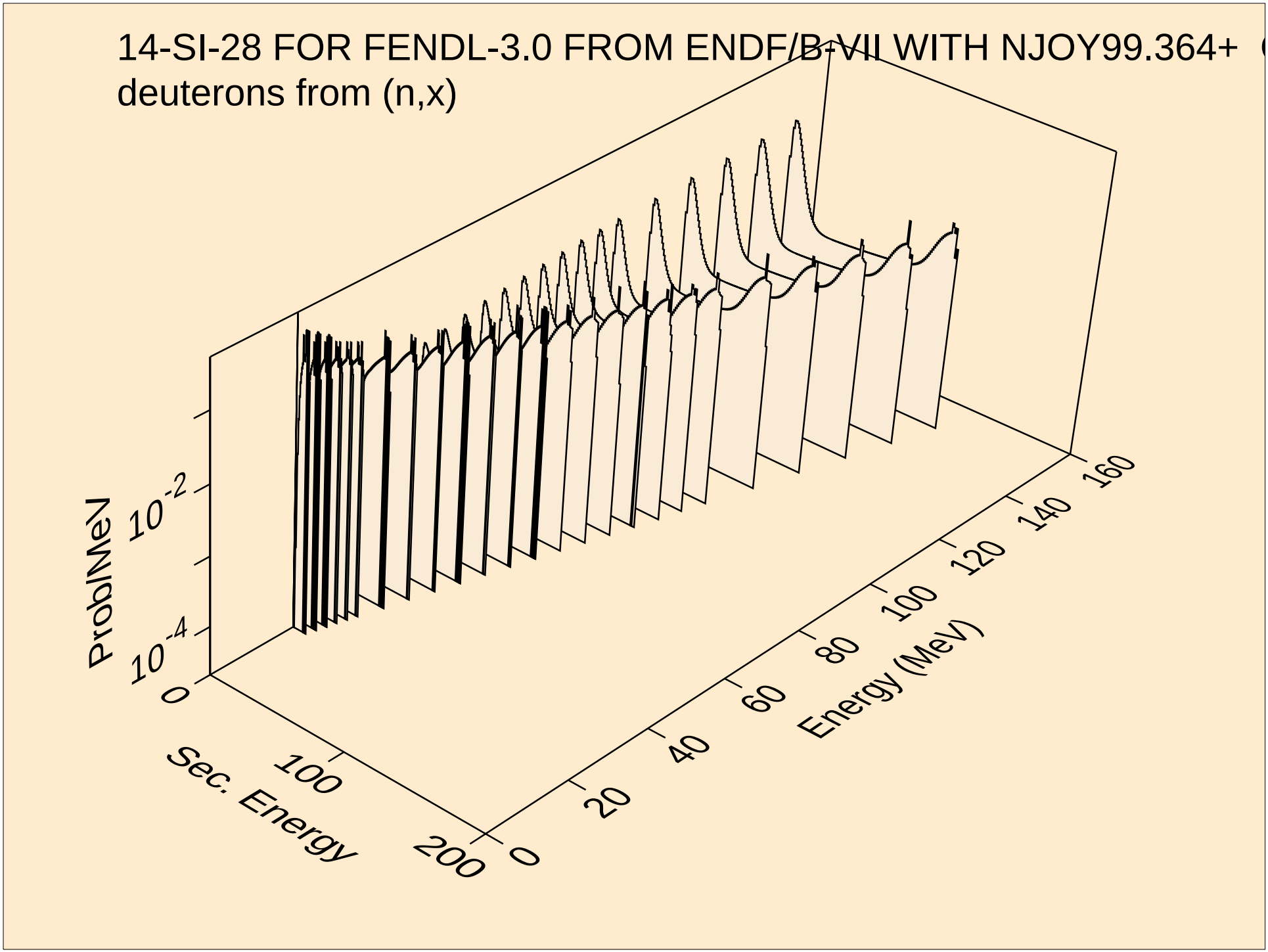

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*10) proton
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

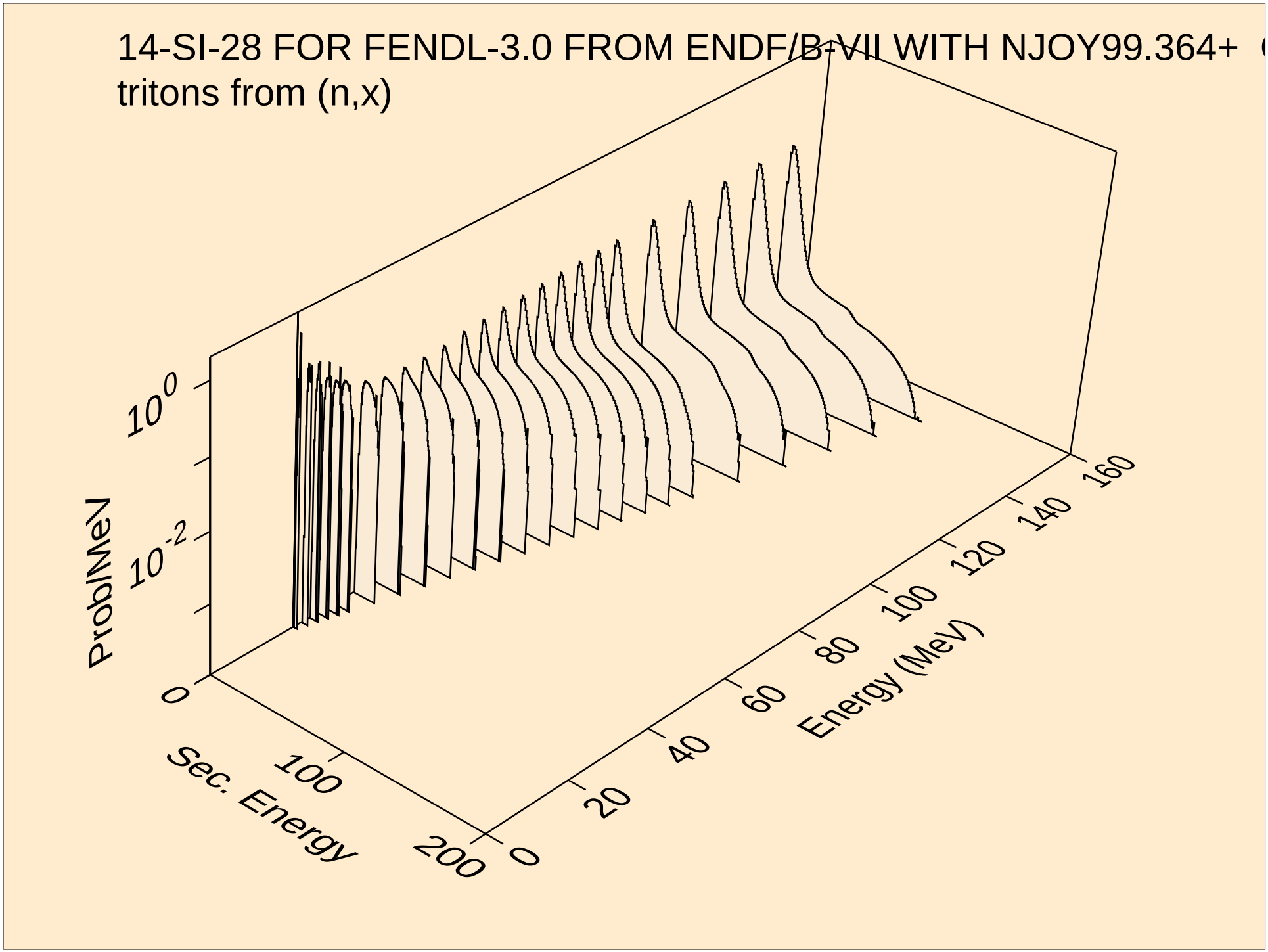

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*11) proton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

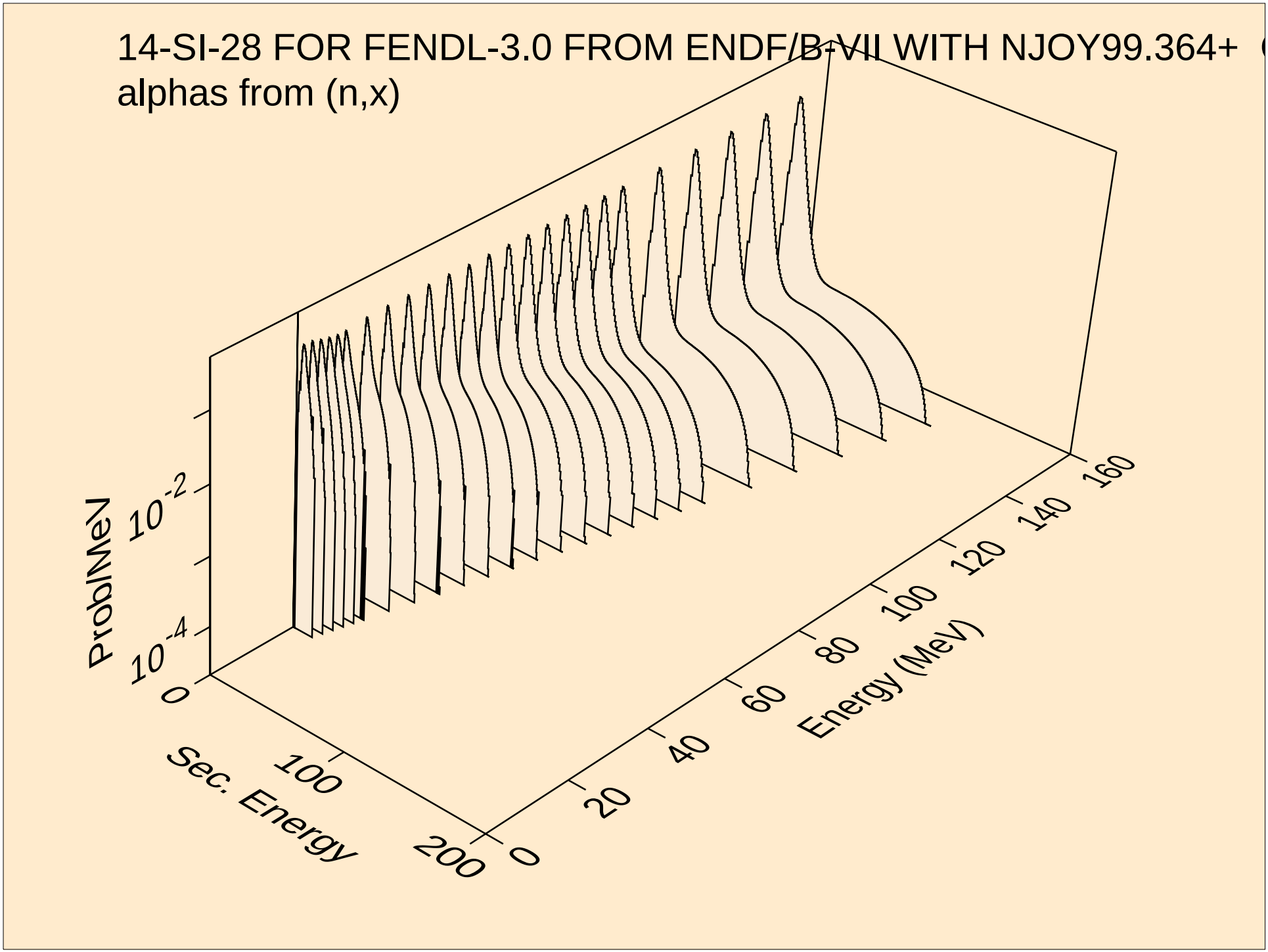

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*12) proton
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

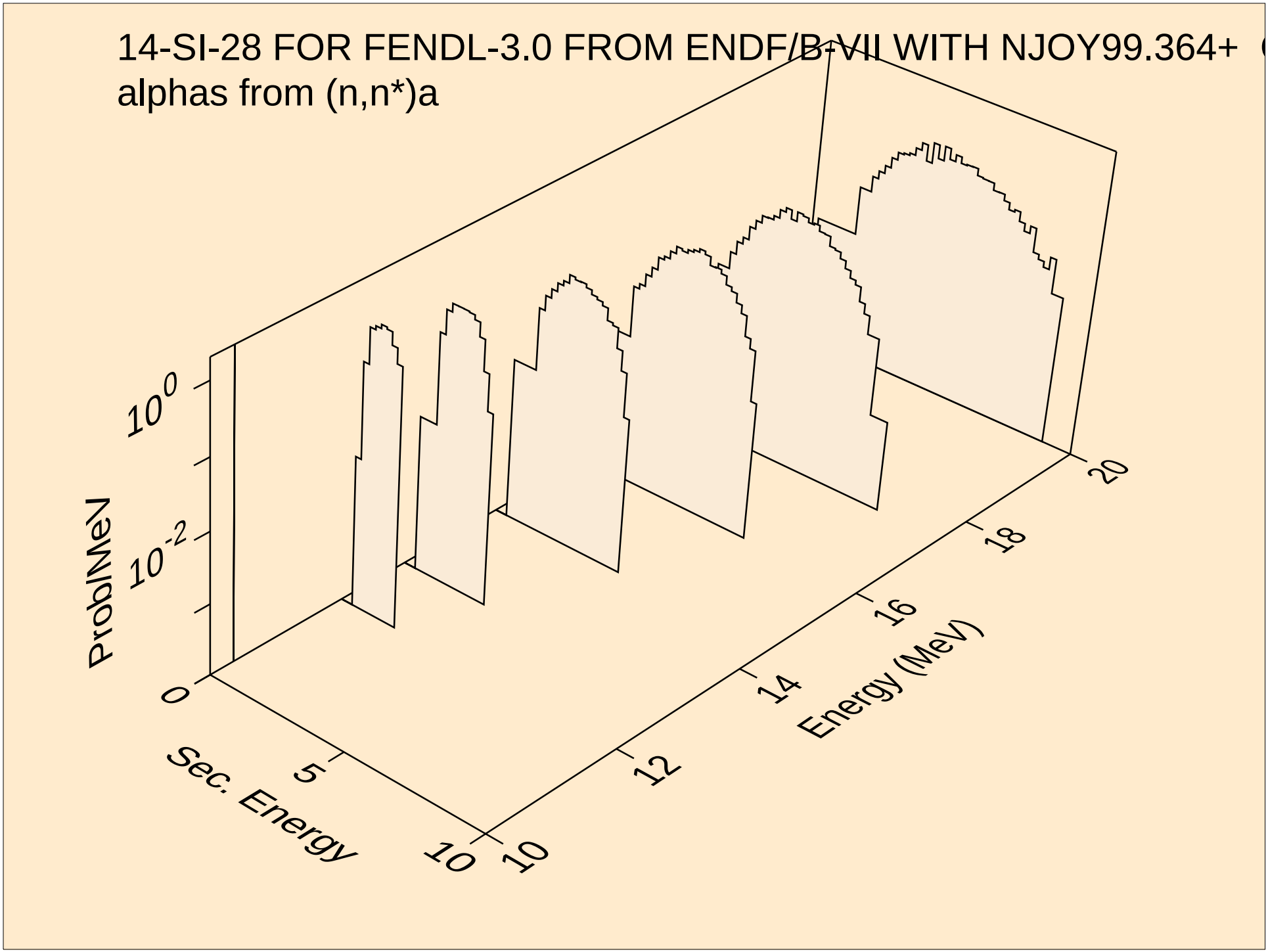

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,p*13) proton
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

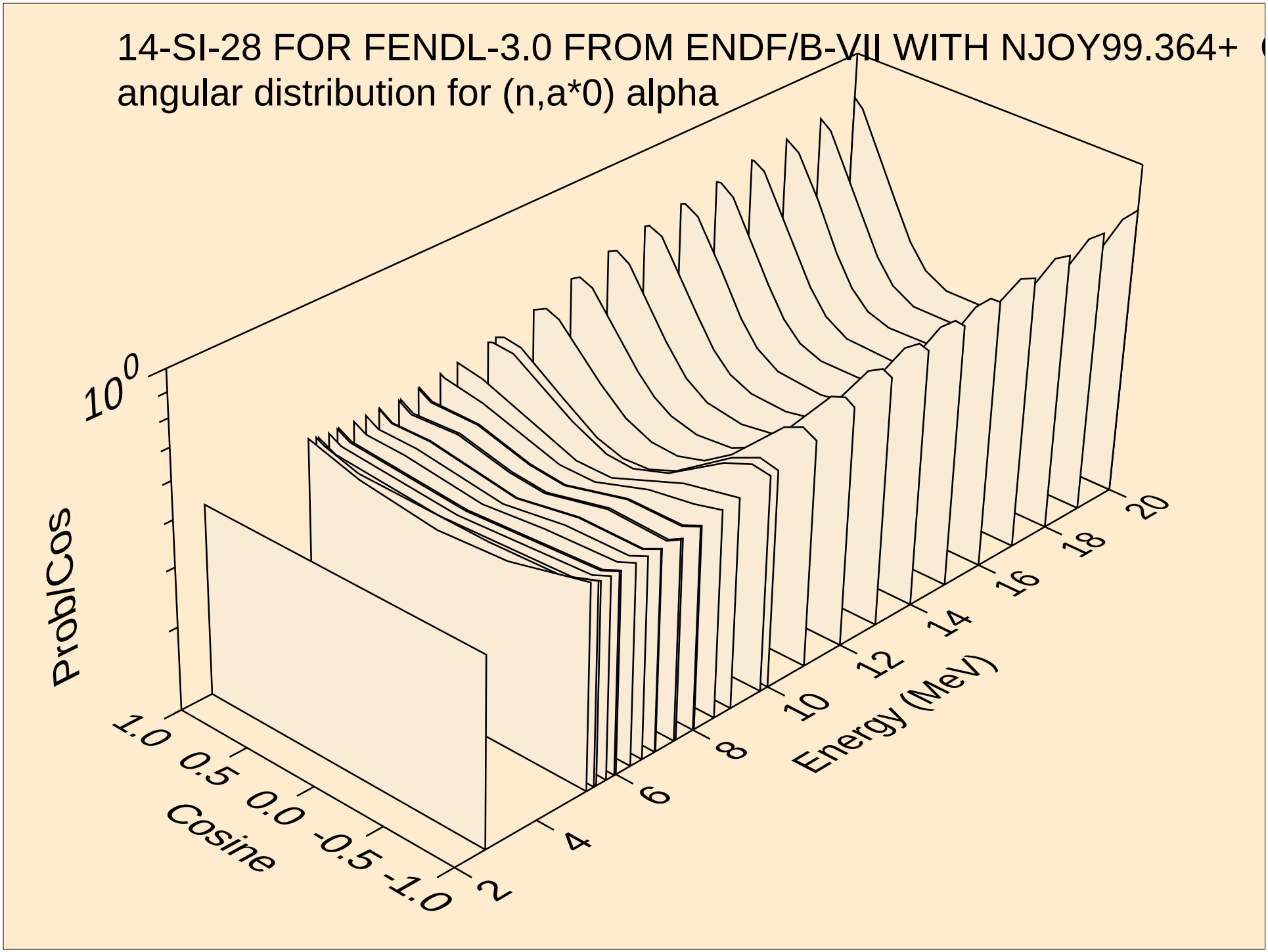

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
protons from (n,p*c)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
10
20
Sec. Energy
6
8
10
12
14
16
18
20
Energy (MeV)

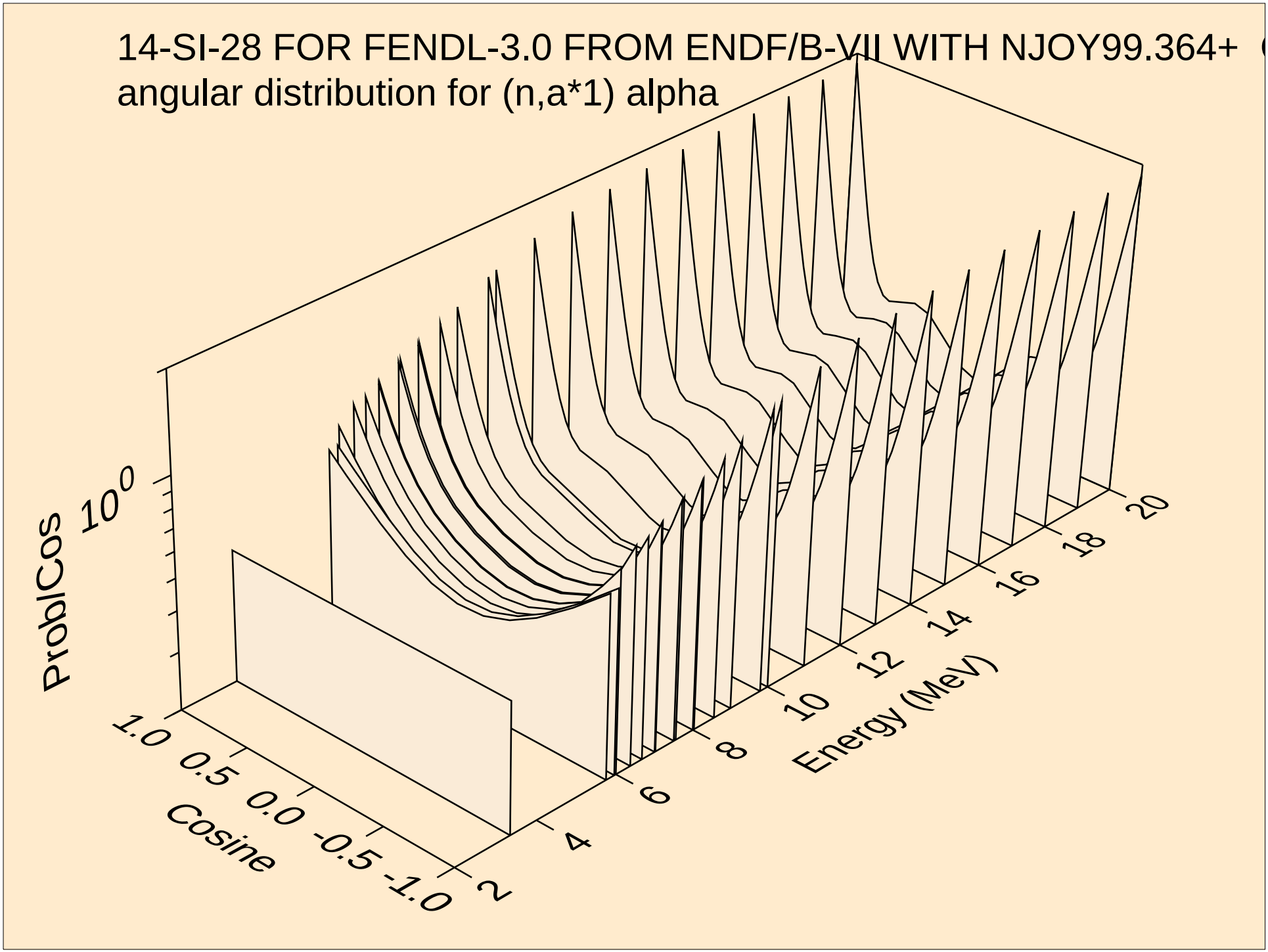

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
deuterons from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)

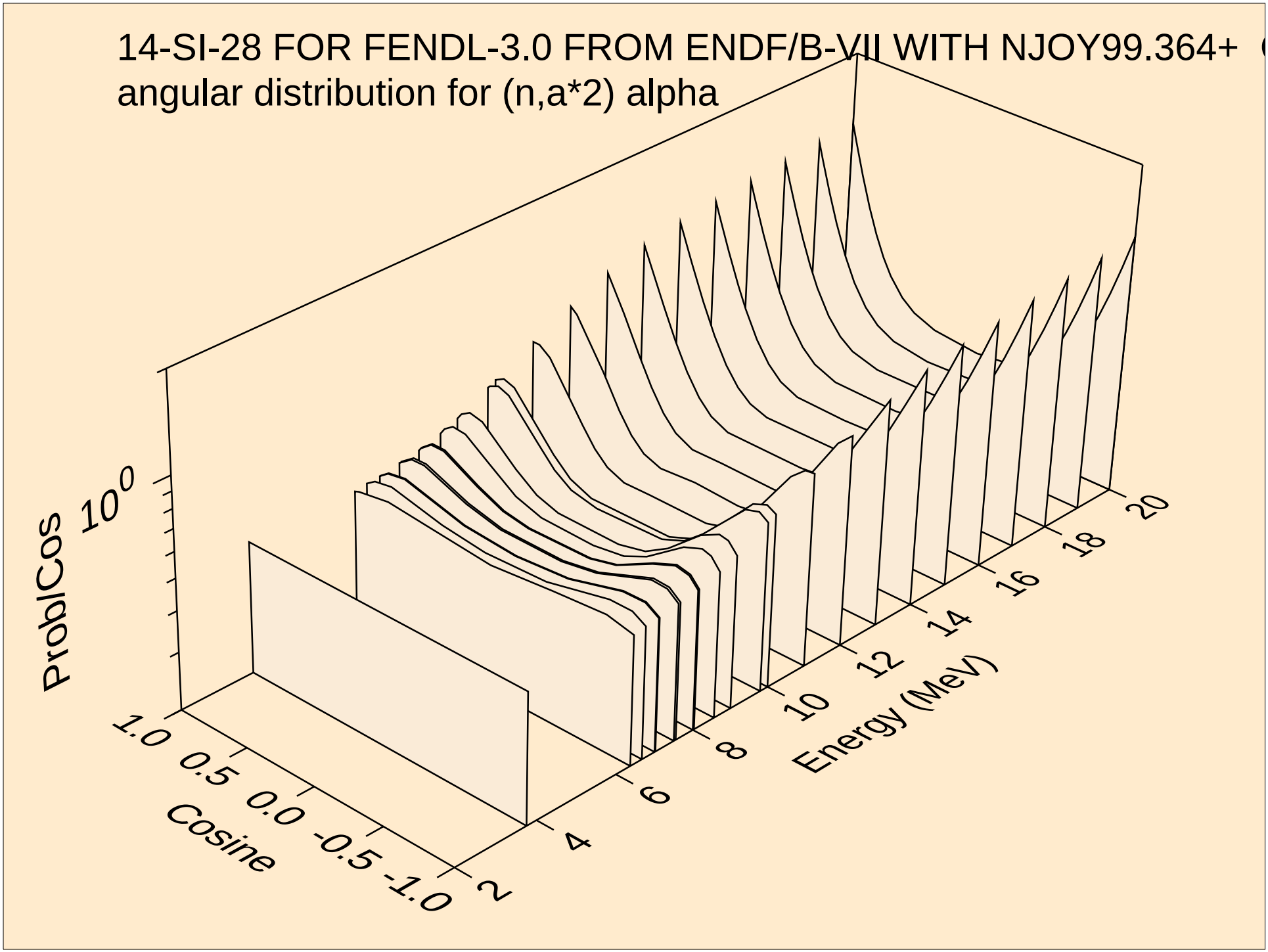

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
tritons from (n,x)
Prob/MeV
10^{0}
10^{-2}
0
100
200
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

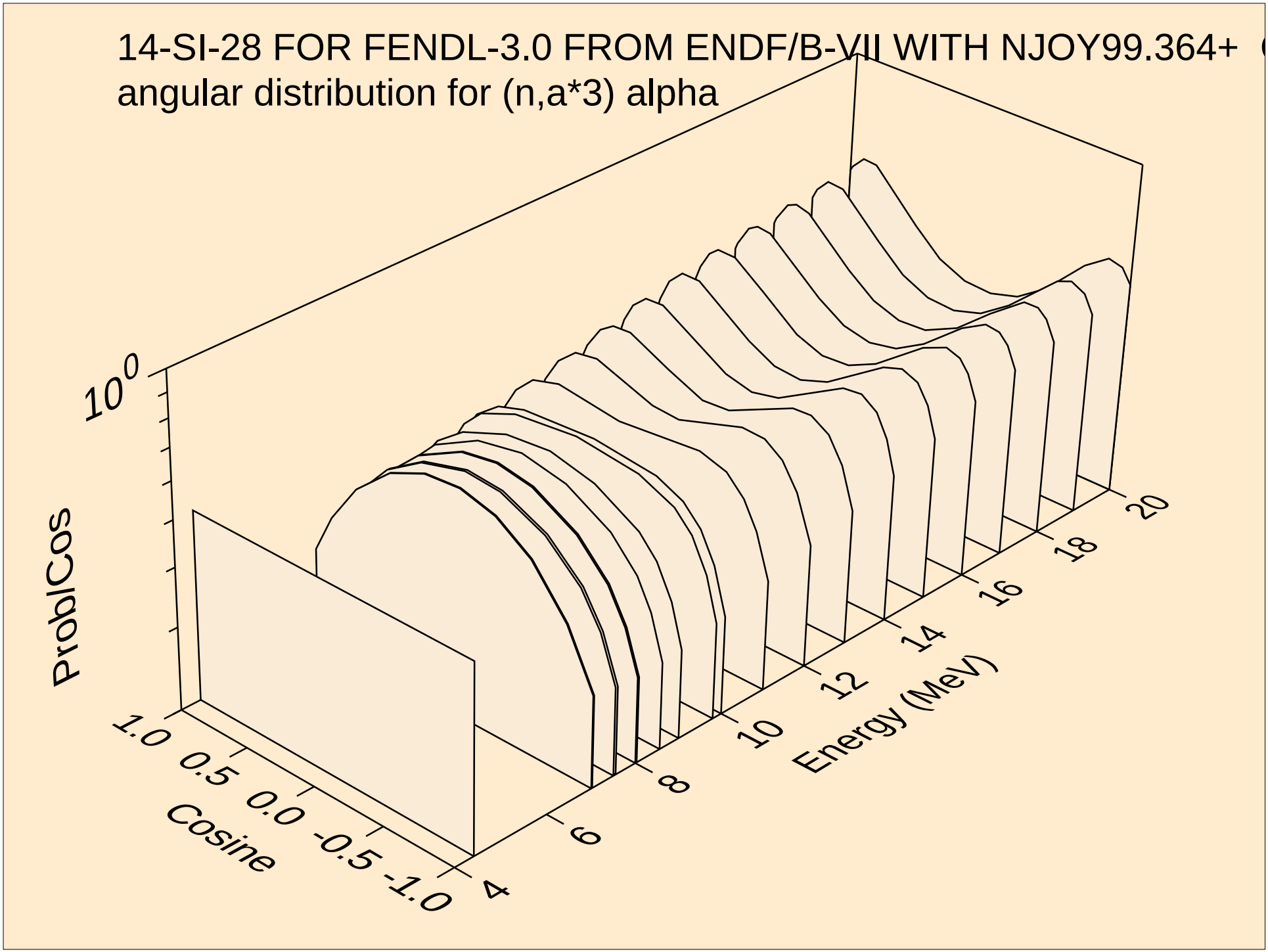

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
alphas from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)

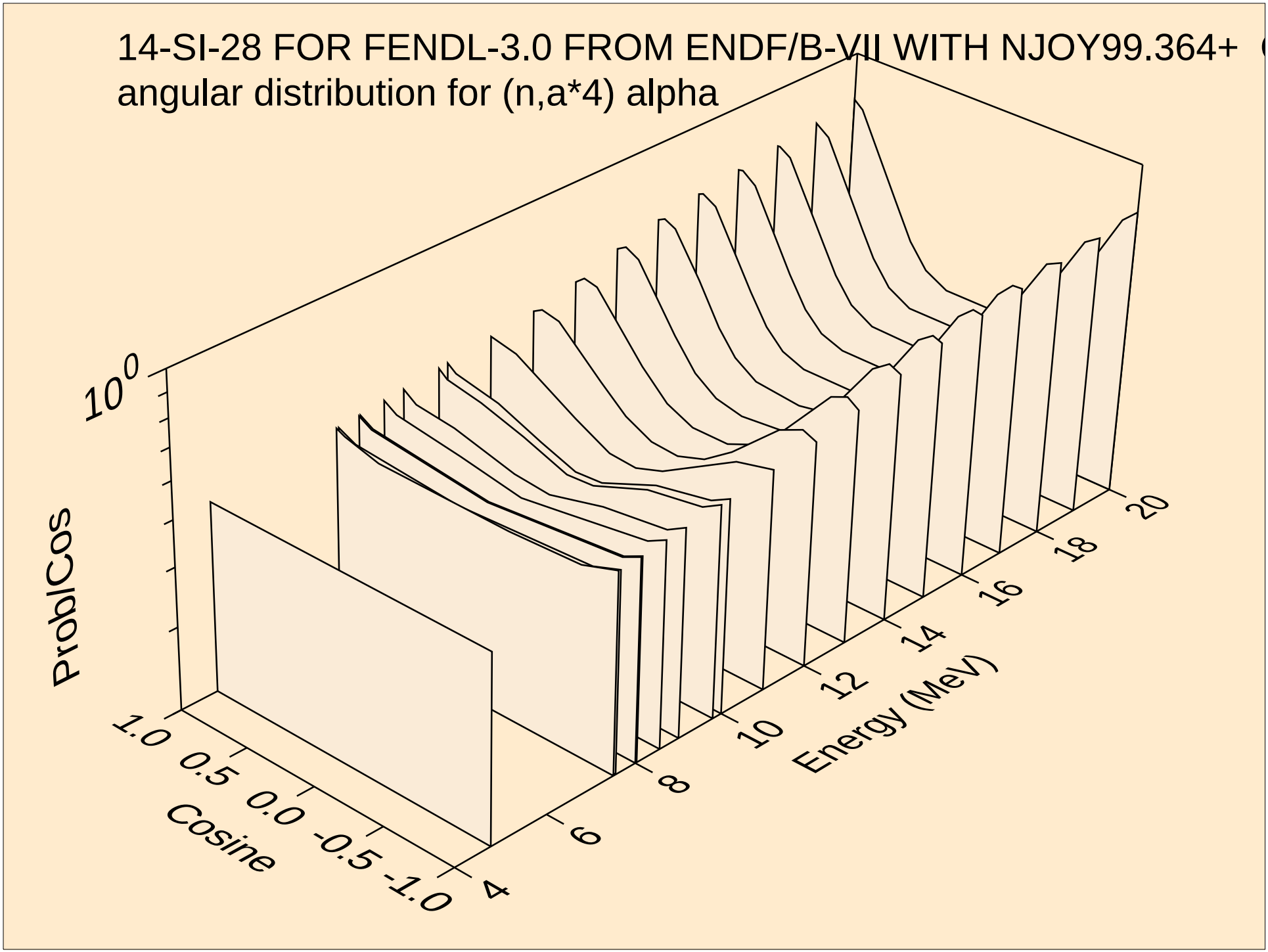

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
alphas from (n,n*)a
Prob/MeV
10^{0}
10^{-2}
0
5
10
Sec. Energy
10
12
14
16
18
20
Energy (MeV)

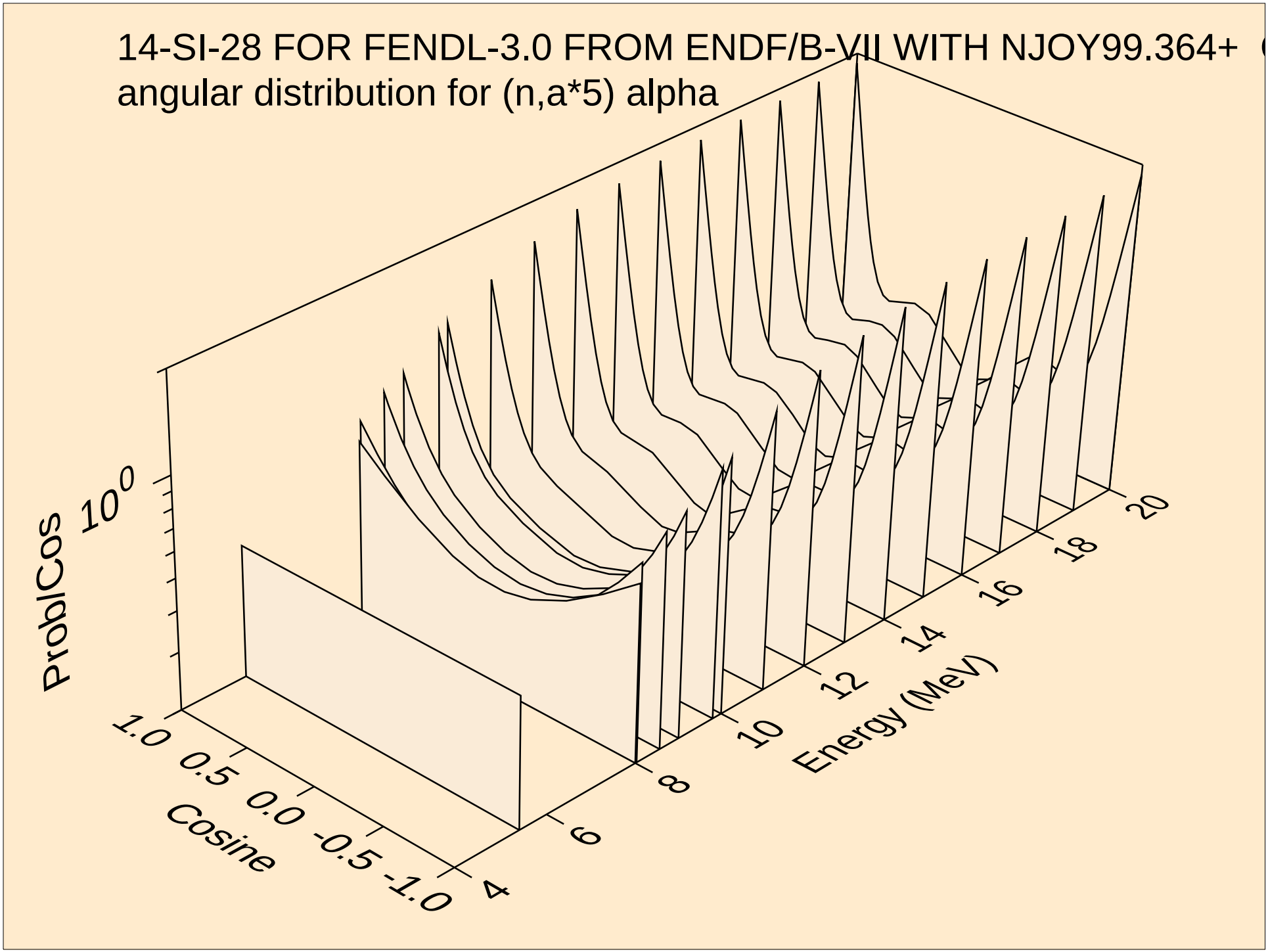

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*0) alpha
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
2
4
6
8
10
12
14
16
18
20

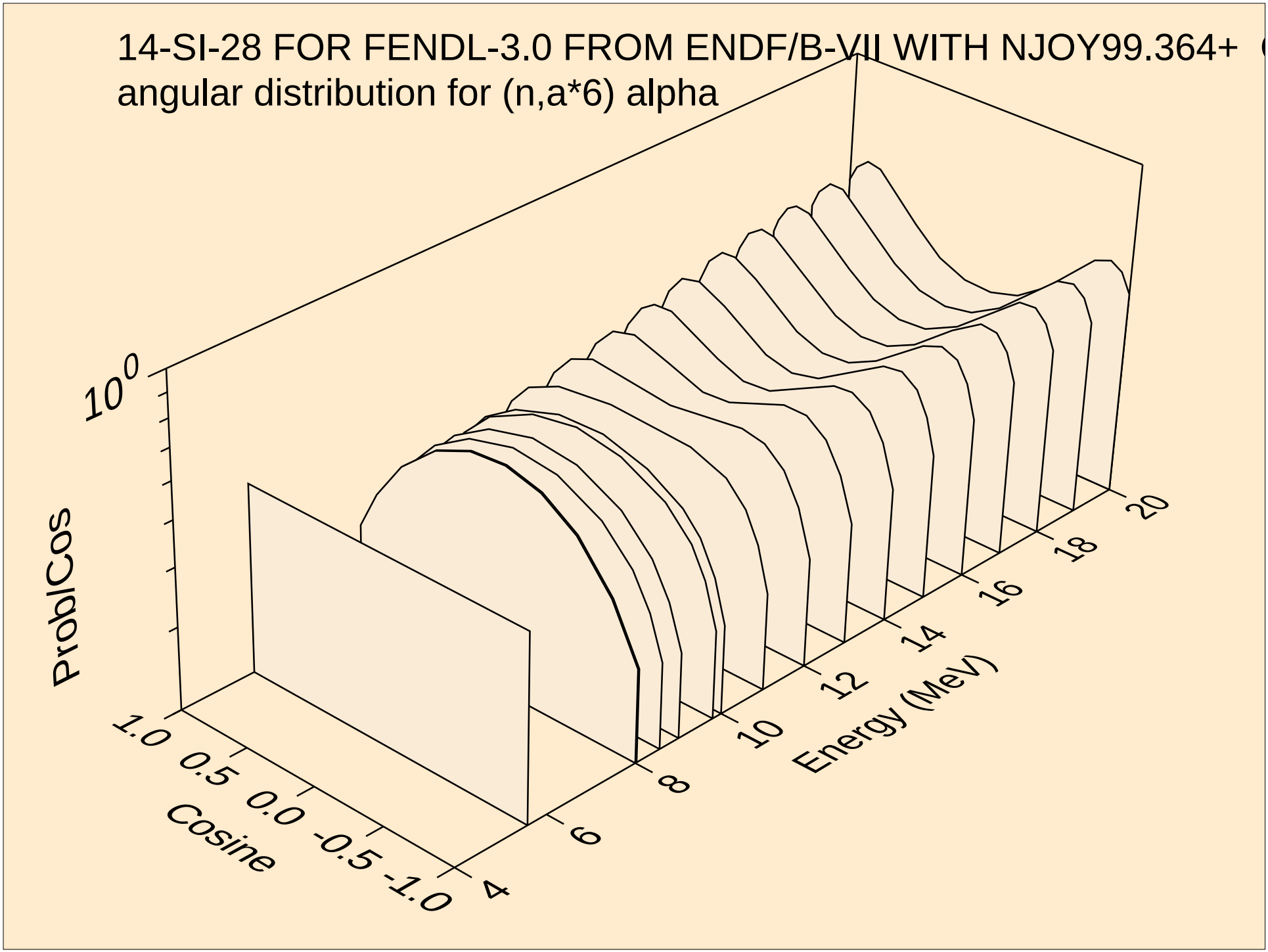

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*1) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

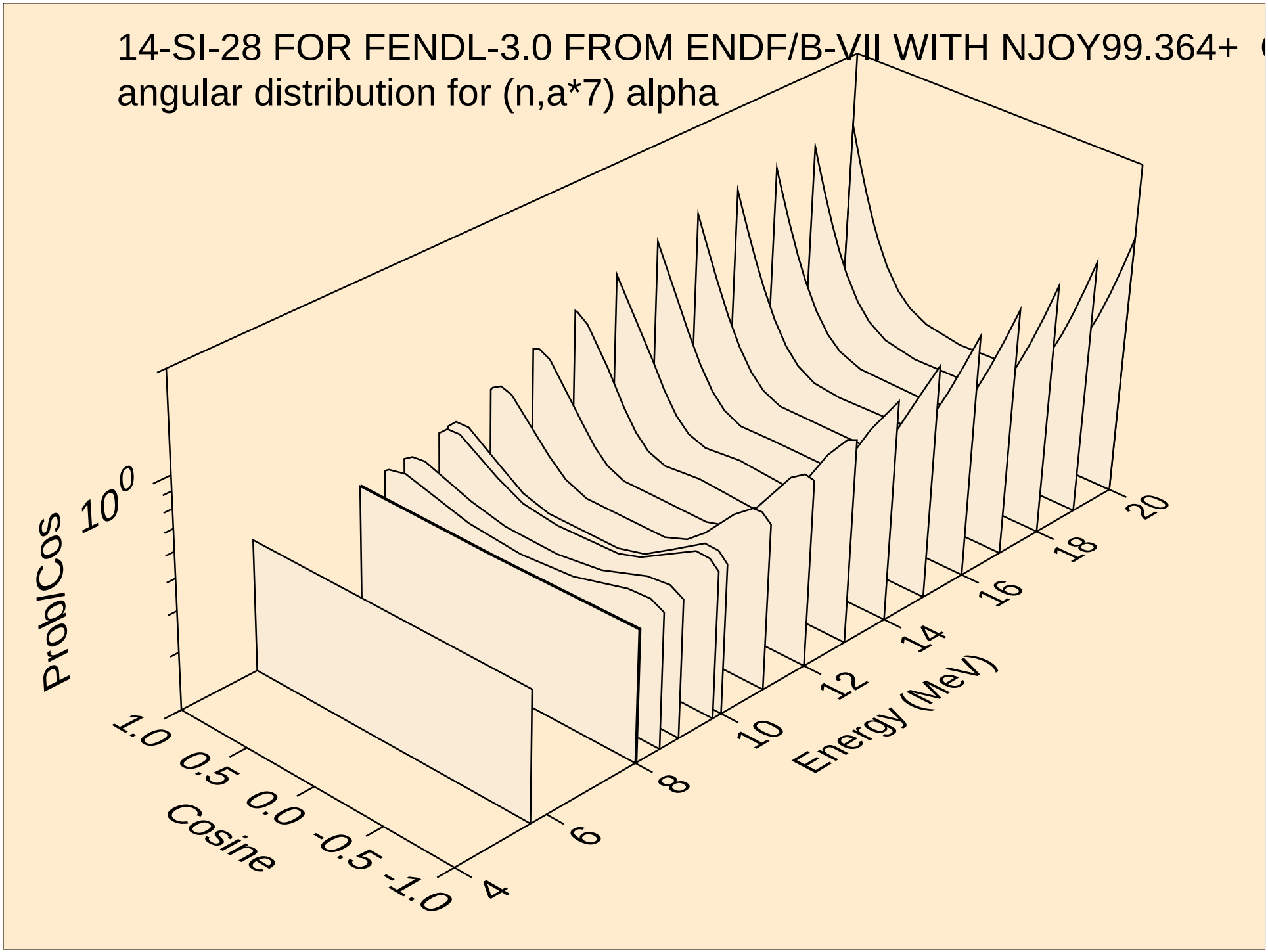

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*2) alpha
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

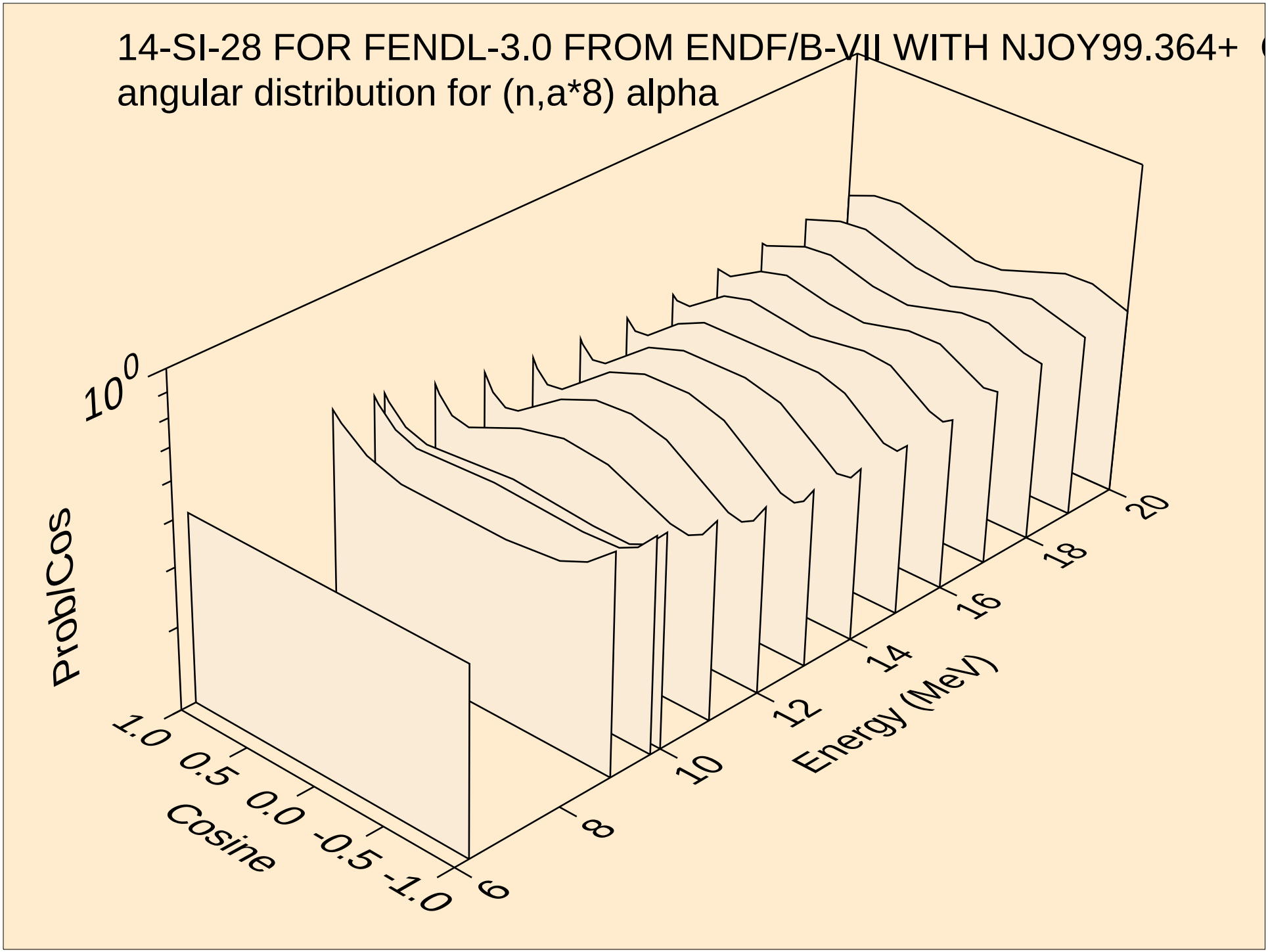

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*3) alpha
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
4
6
8
10
12
14
16
18
20

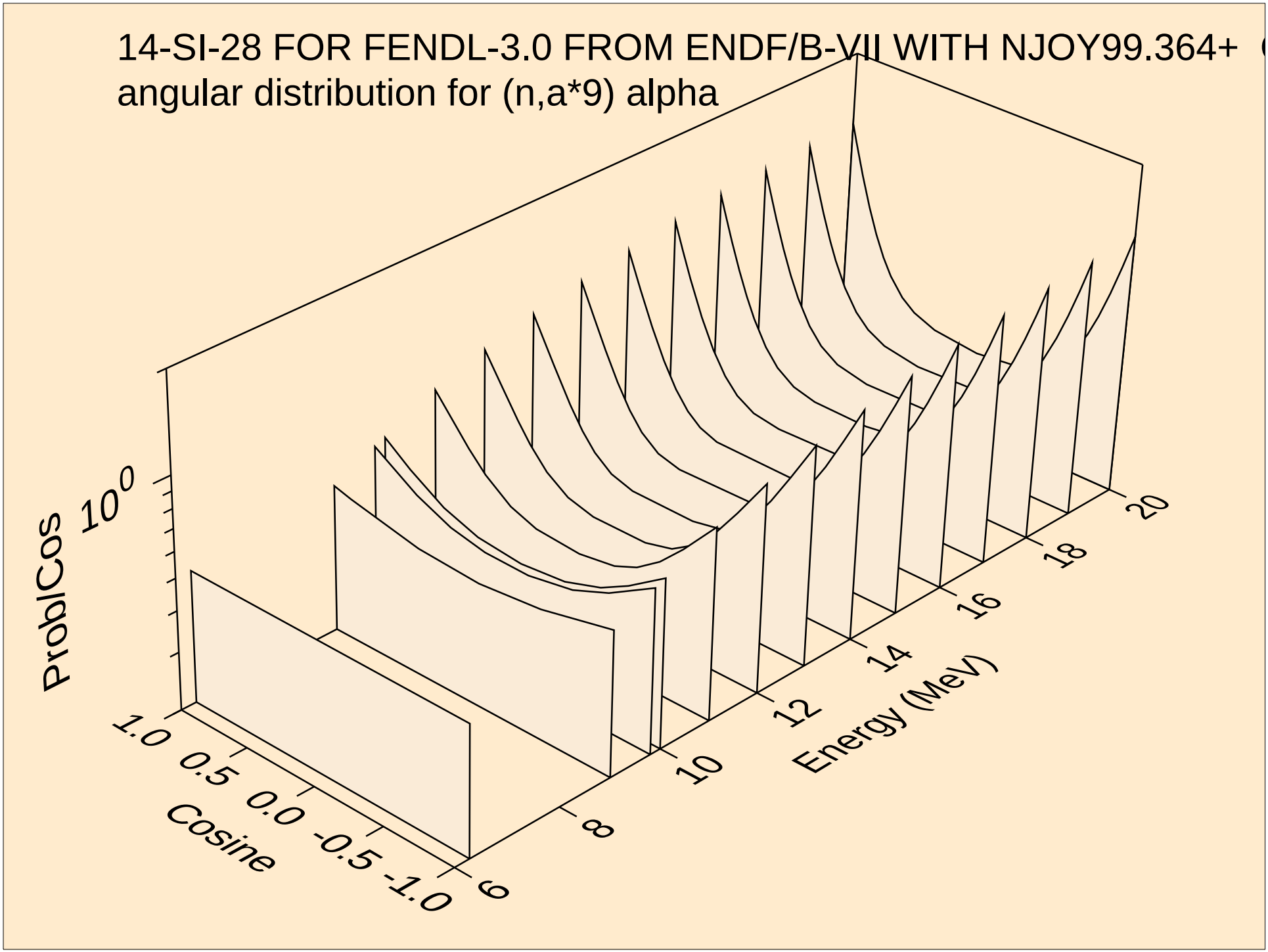

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*4) alpha
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
4
6
8
10
12
14
16
18
20

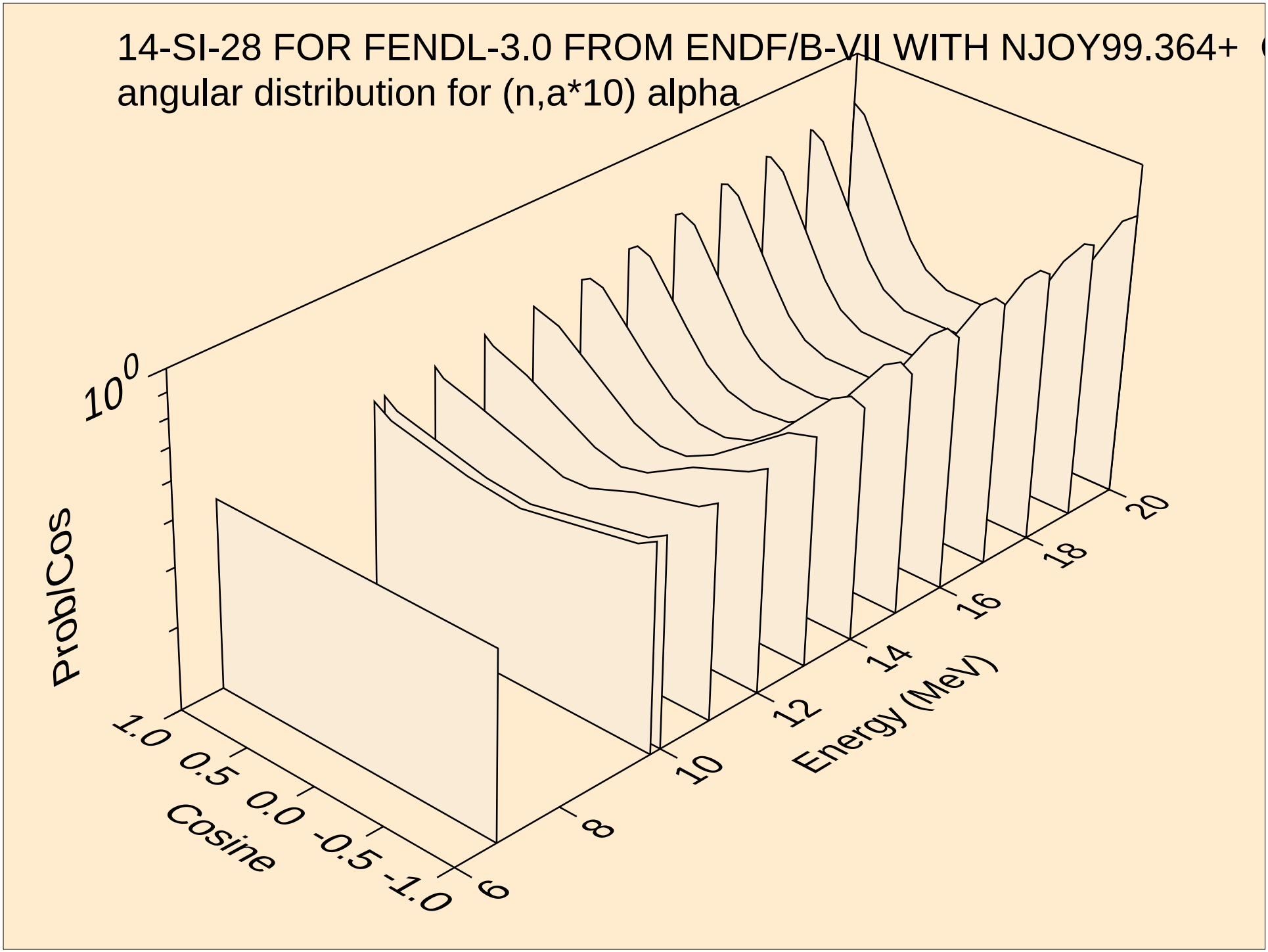

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*5) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

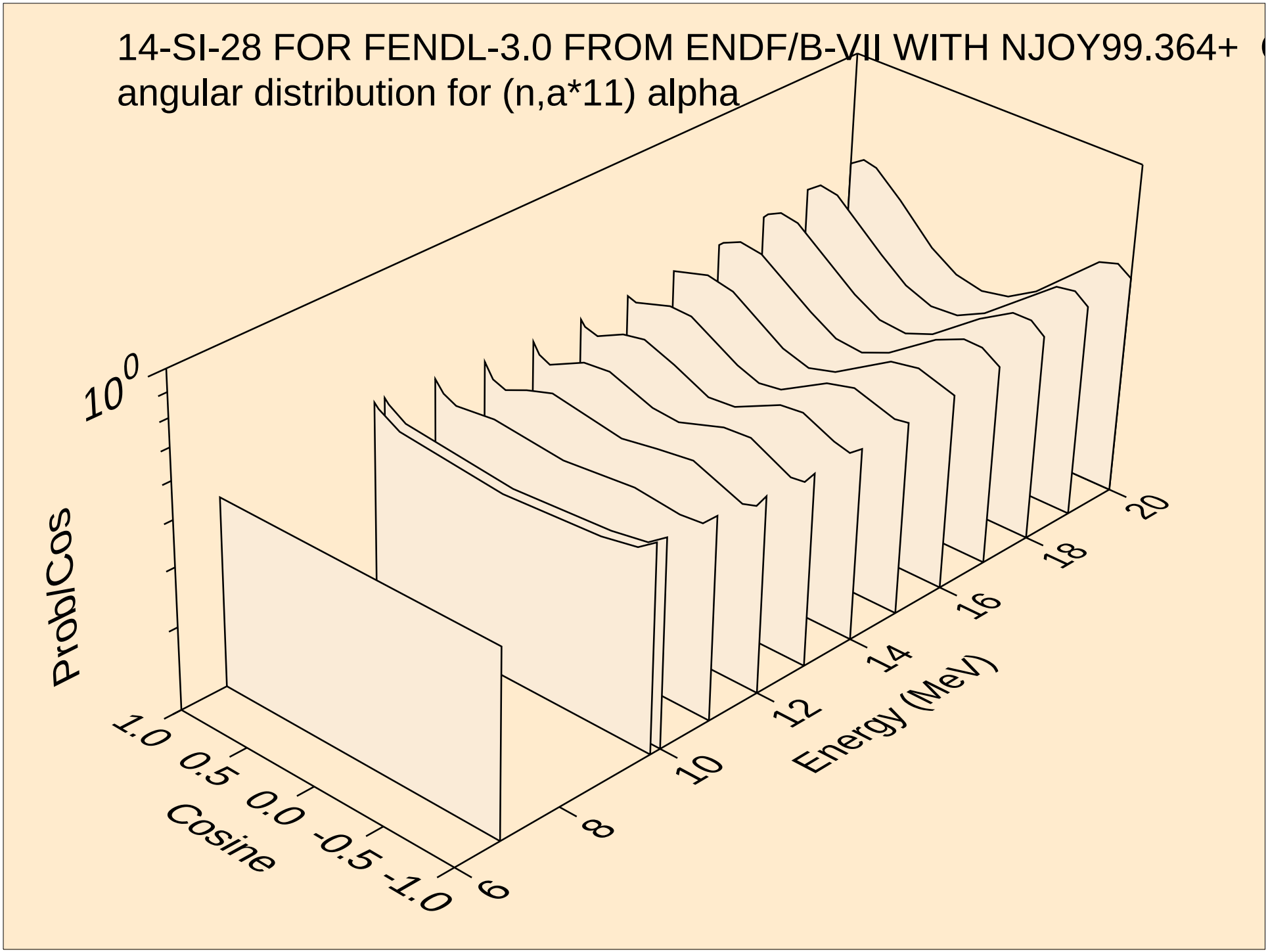

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*6) alpha
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
4
6
8
10
12
14
16
18
20

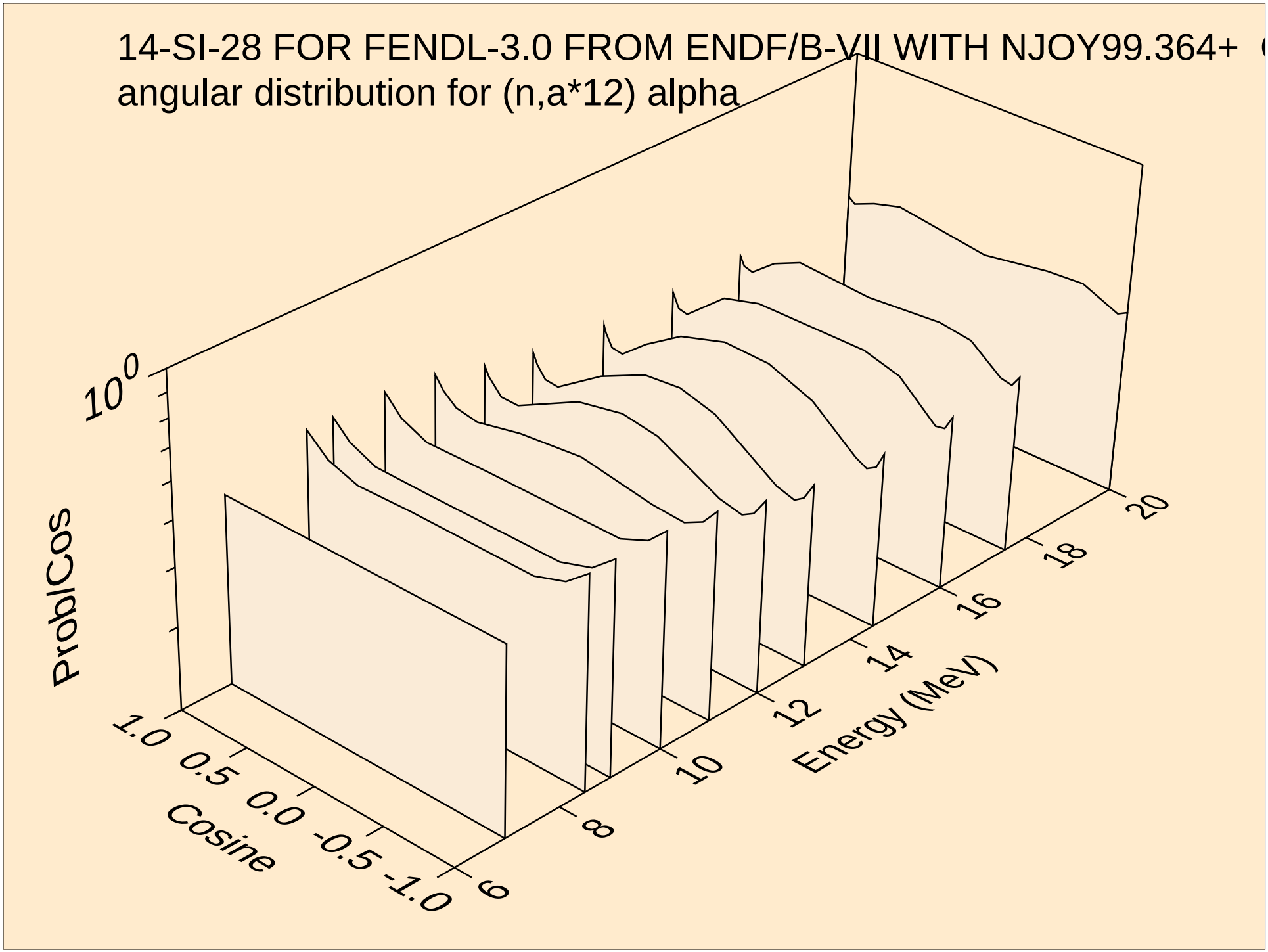

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*7) alpha
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

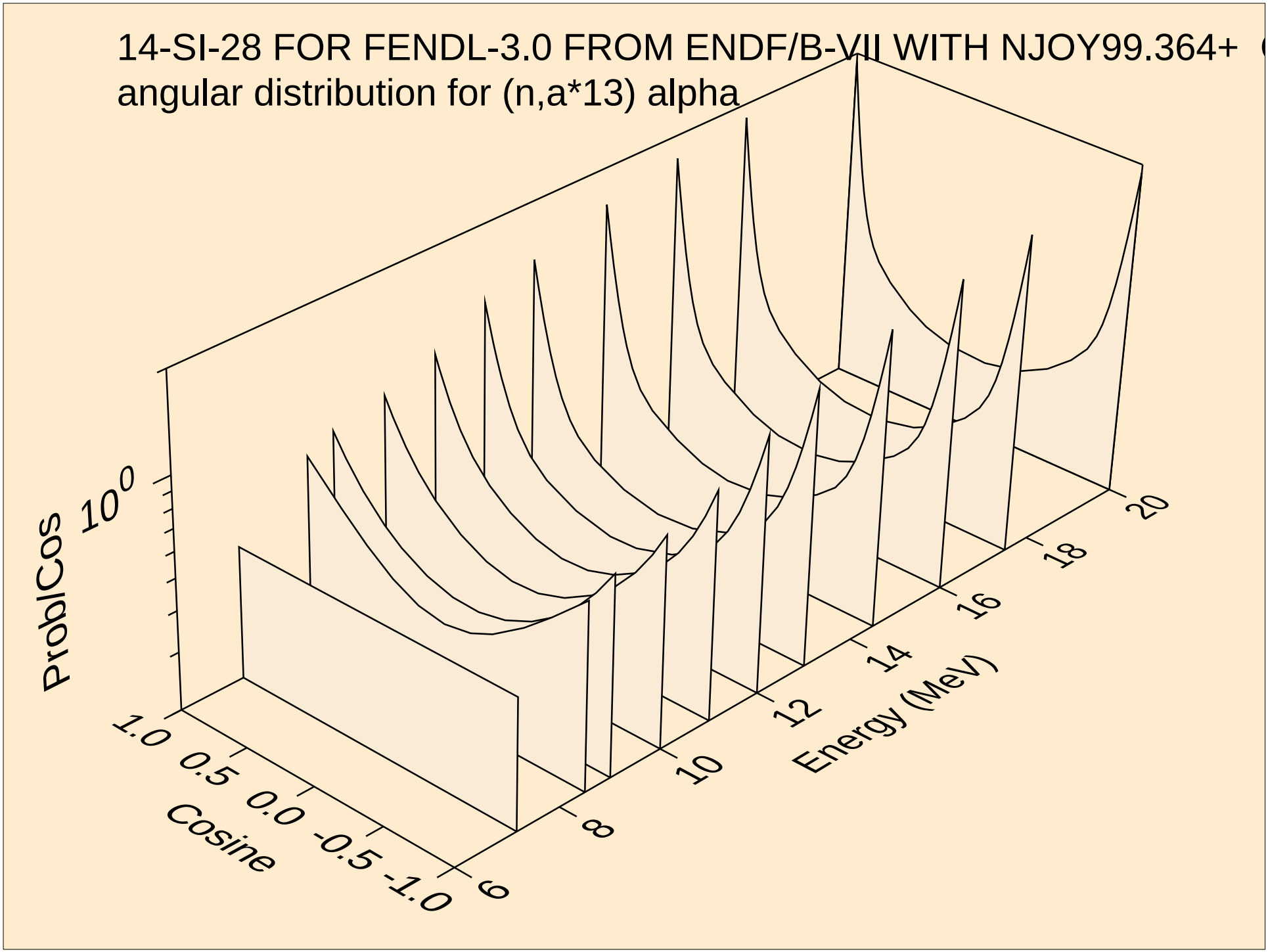

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*8) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

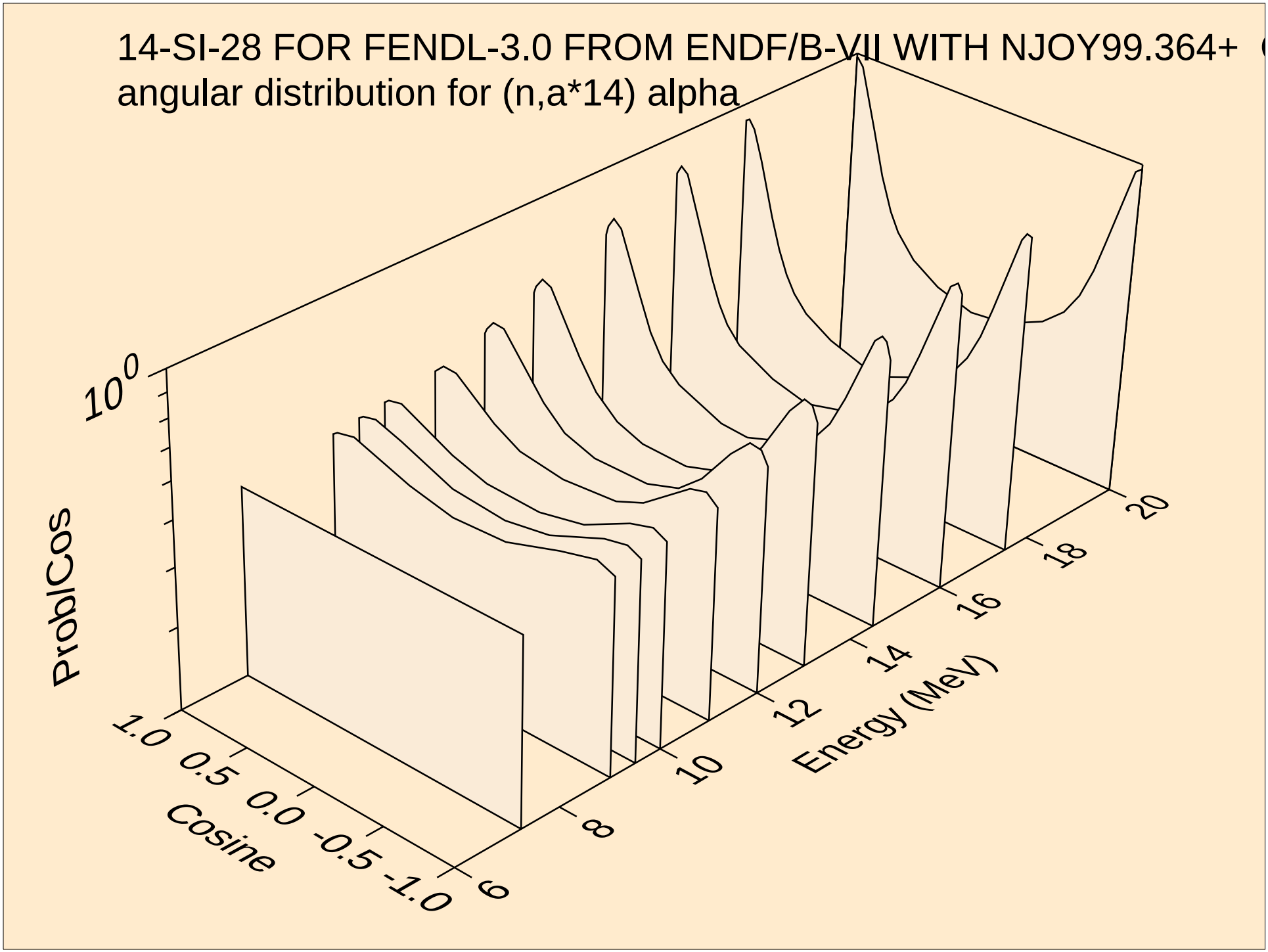

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*9) alpha
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

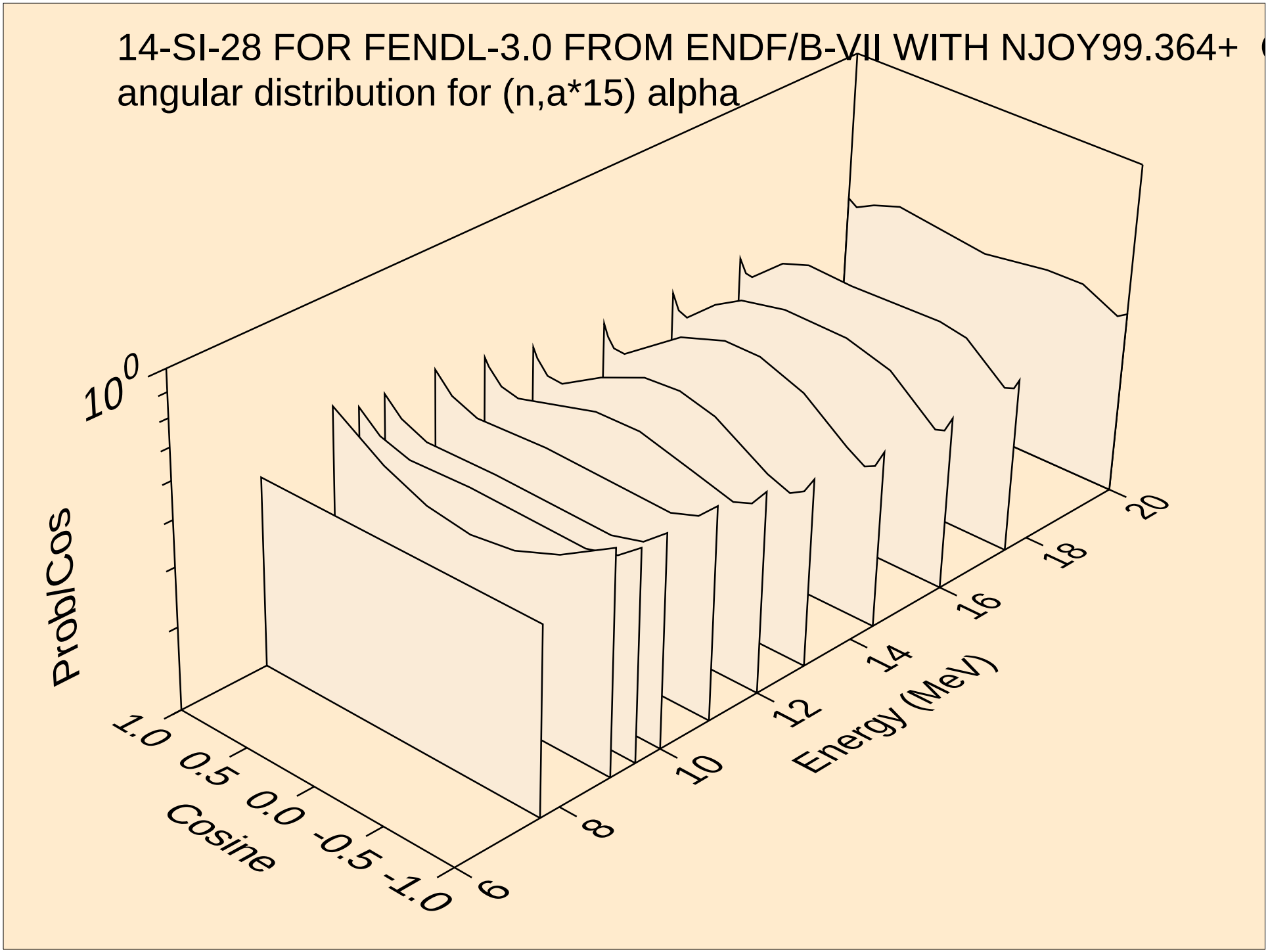

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*10) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

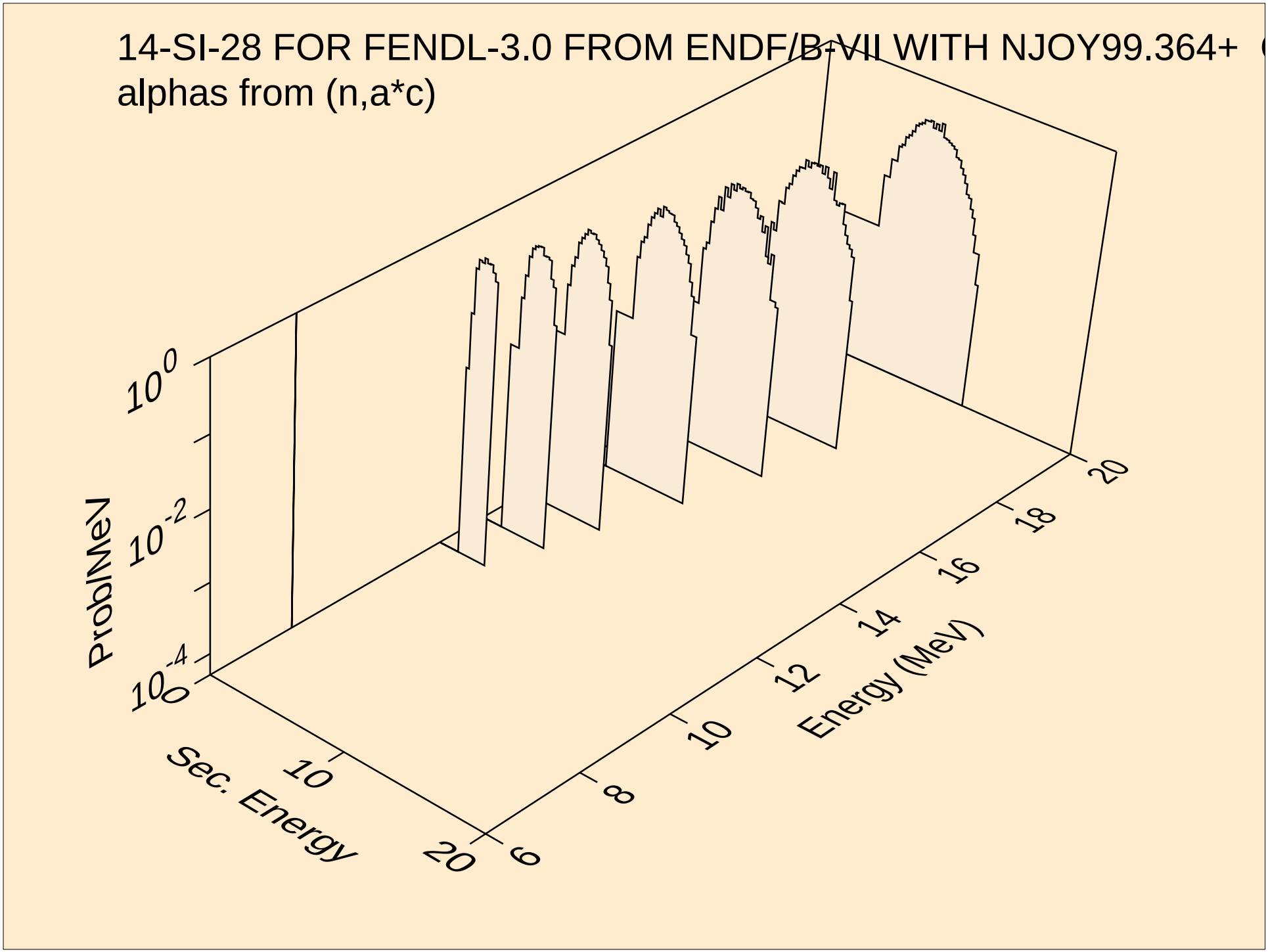

14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*11) alpha
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
6
8
10
12
14
16
18
20


14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*12) alpha
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)


14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*13) alpha
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)


14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*14) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)


14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for (n,a*15) alpha
ProbICos
10^0
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
6
8
10
12
14
16
18
20


14-SI-28 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
alphas from (n,a*c)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
Sec. Energy
6
8
10
12
14
16
18
20
Energy (MeV)