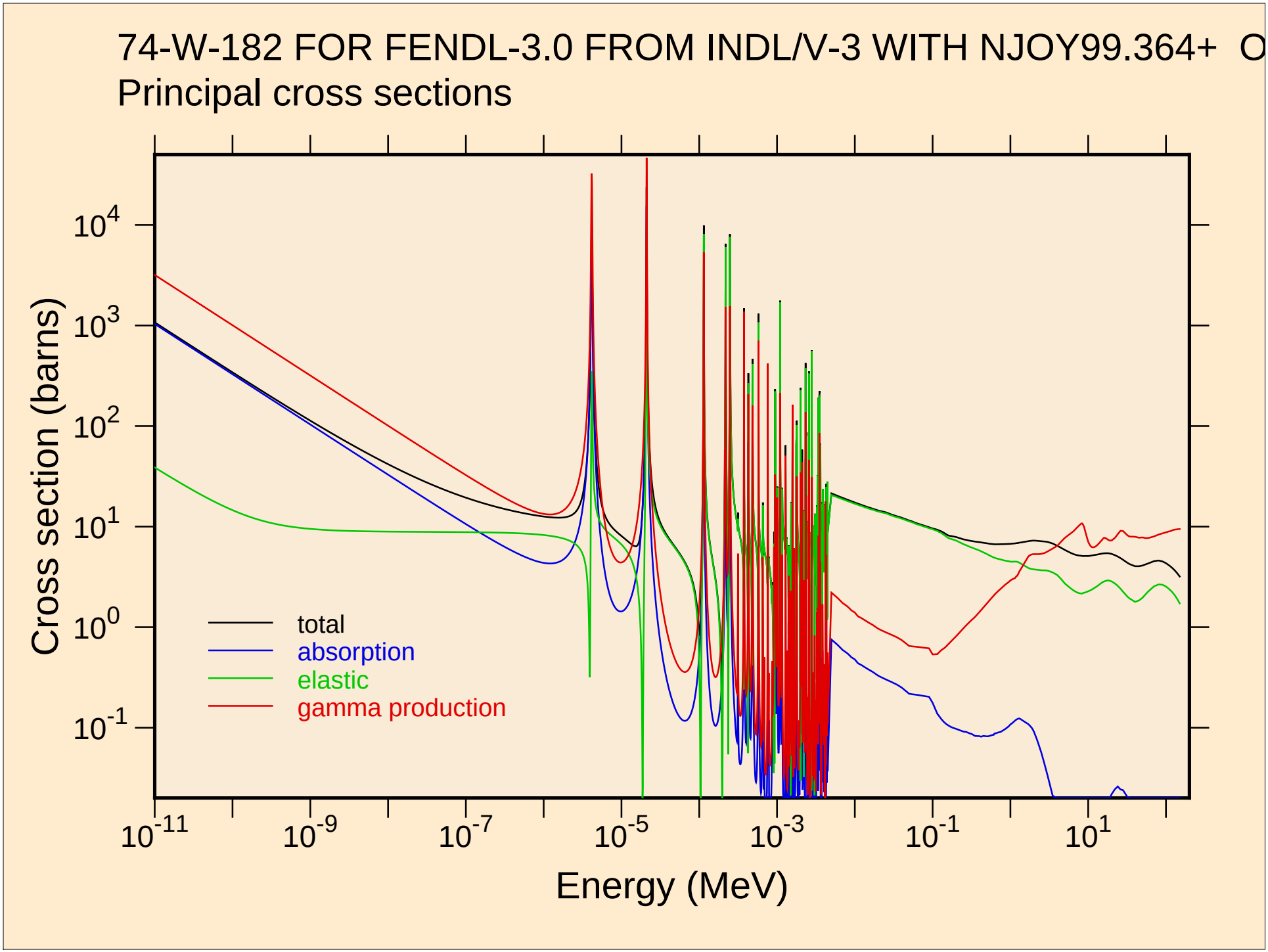
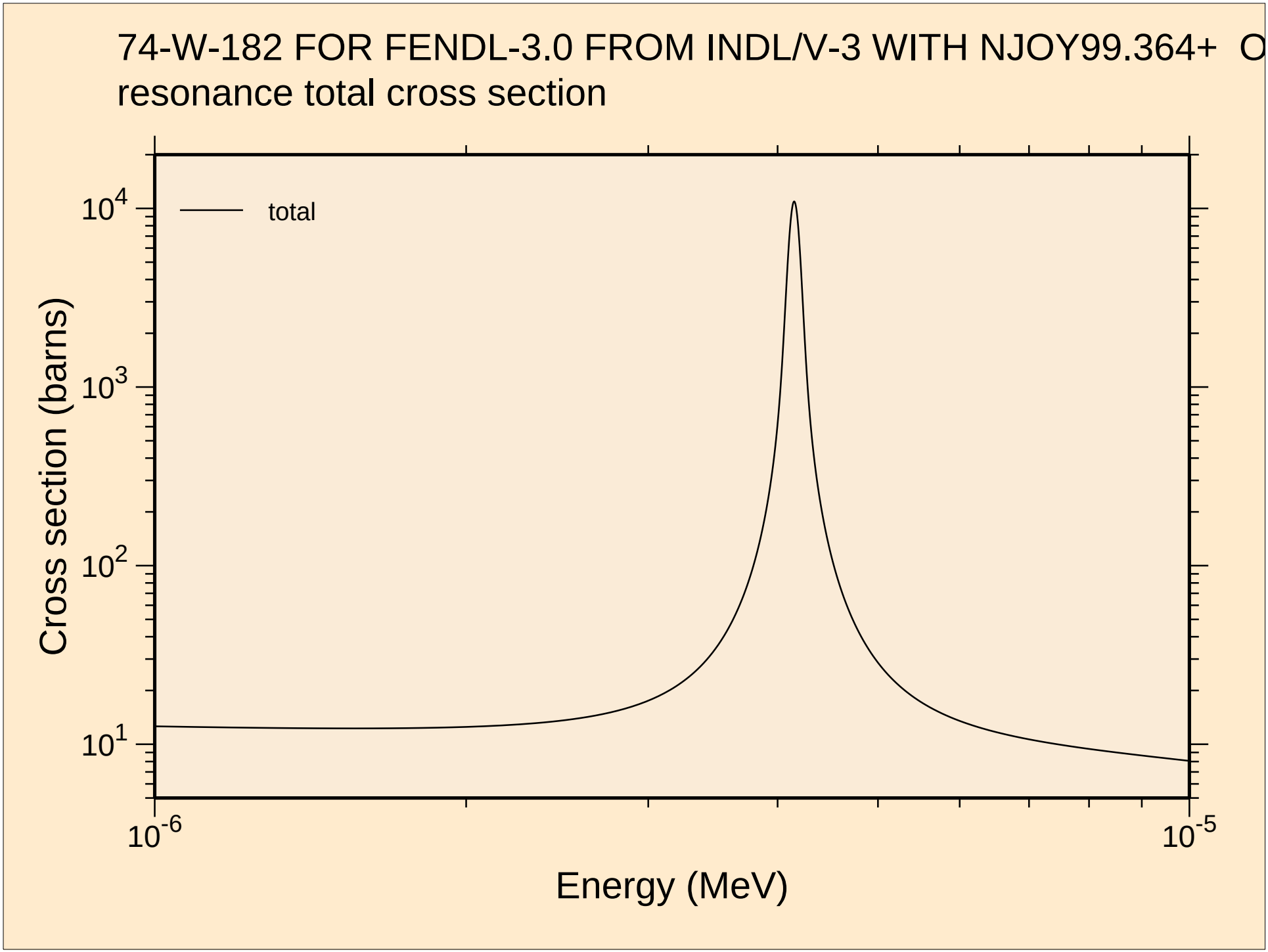
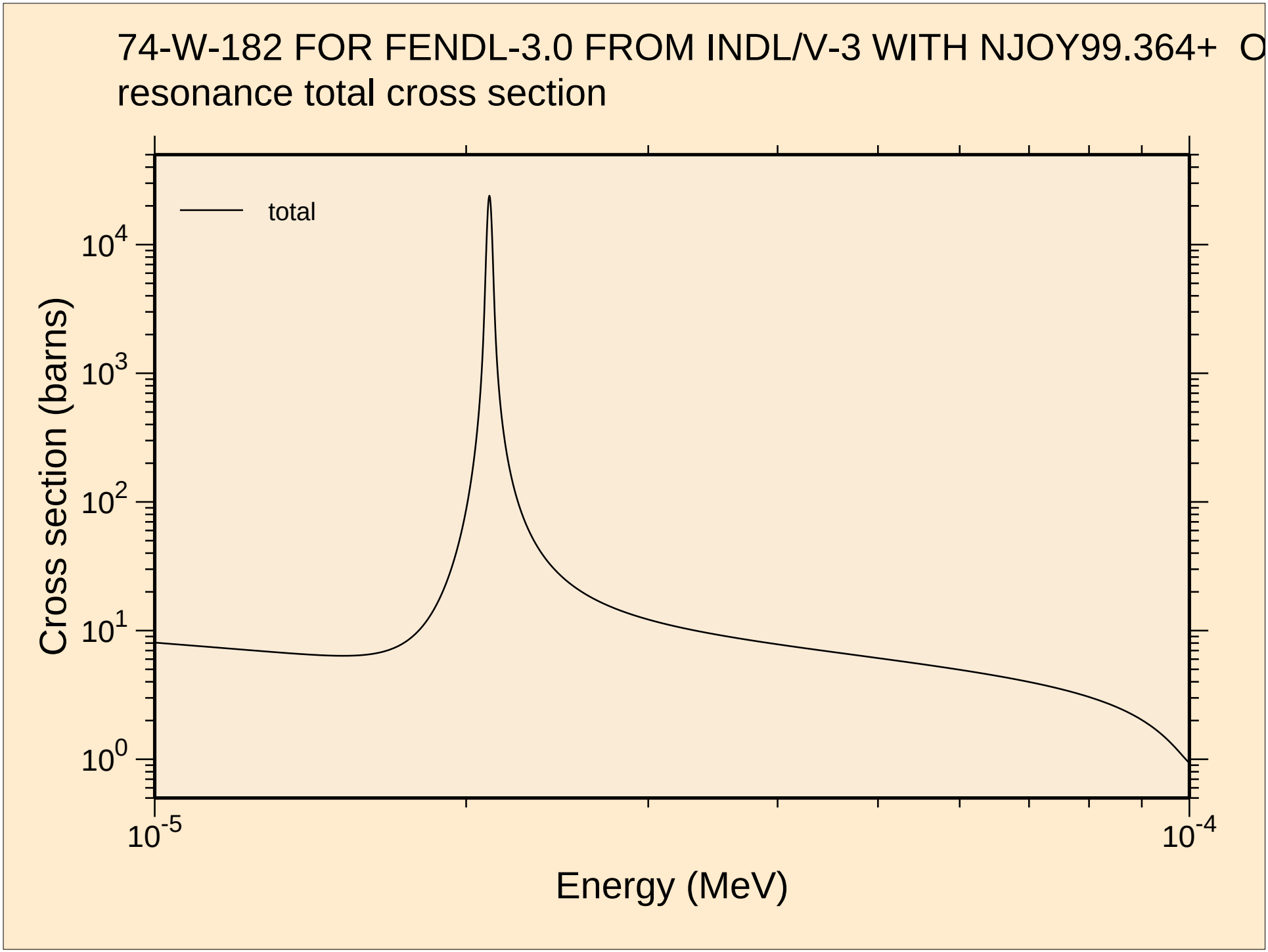
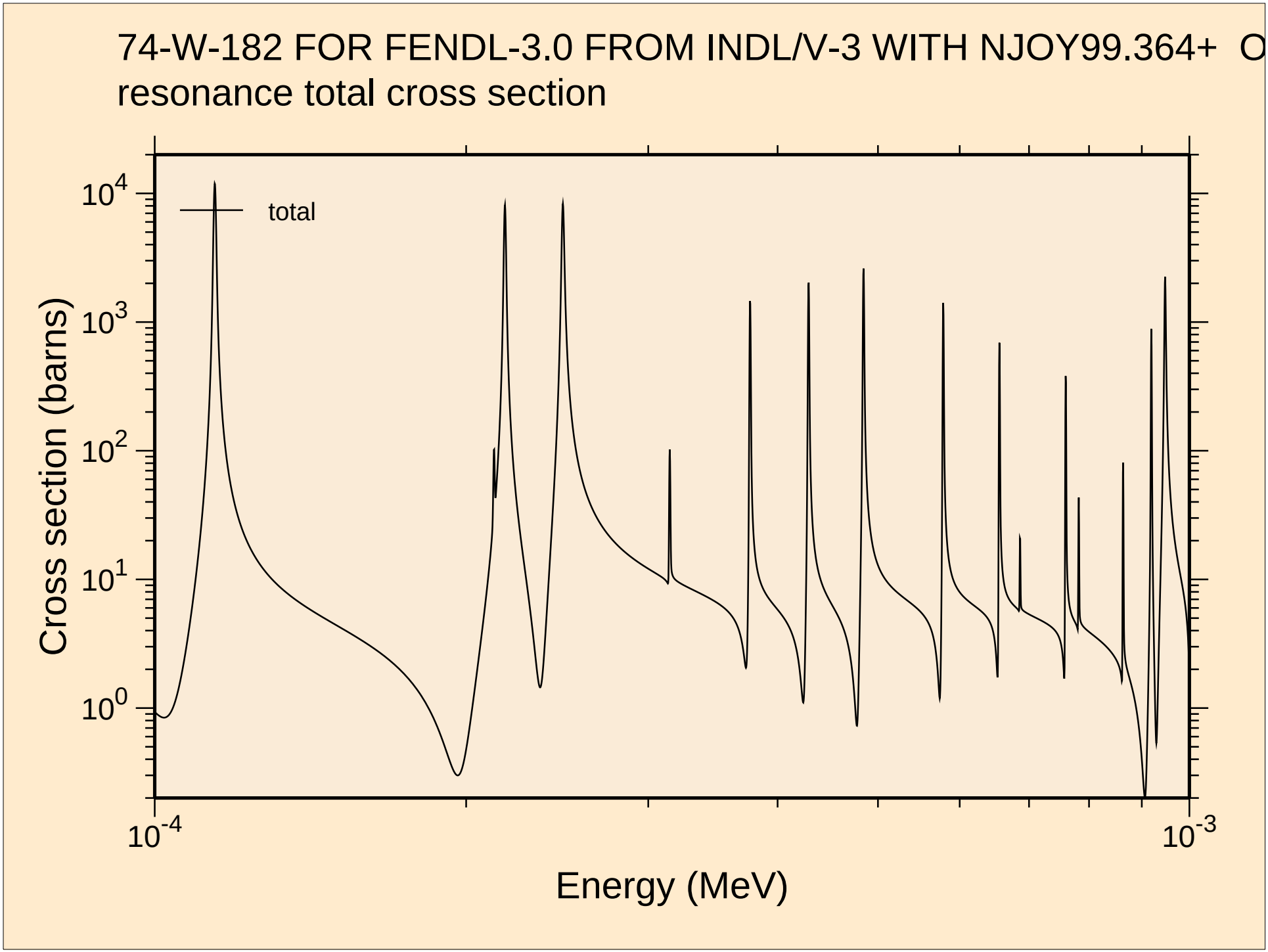
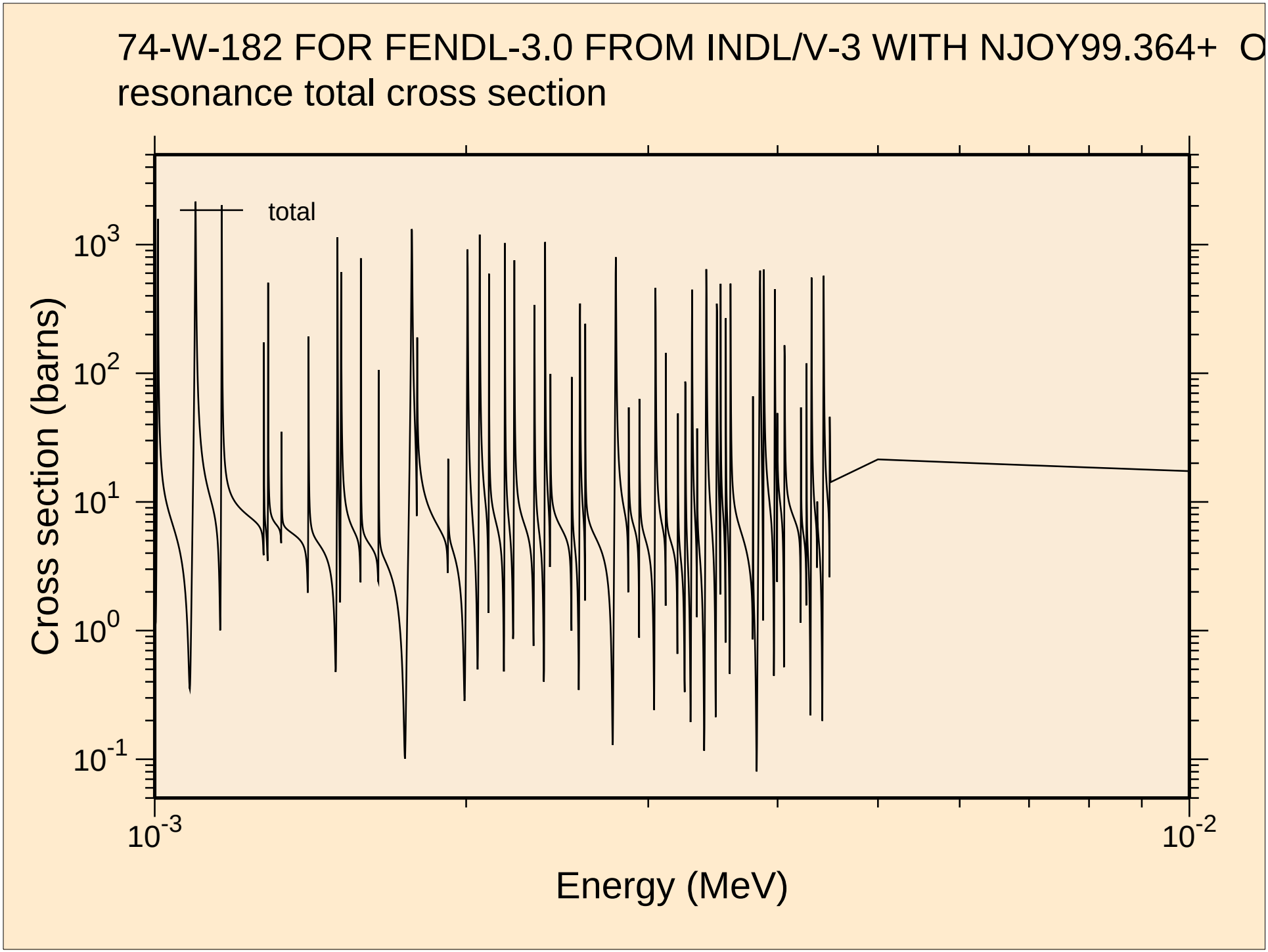
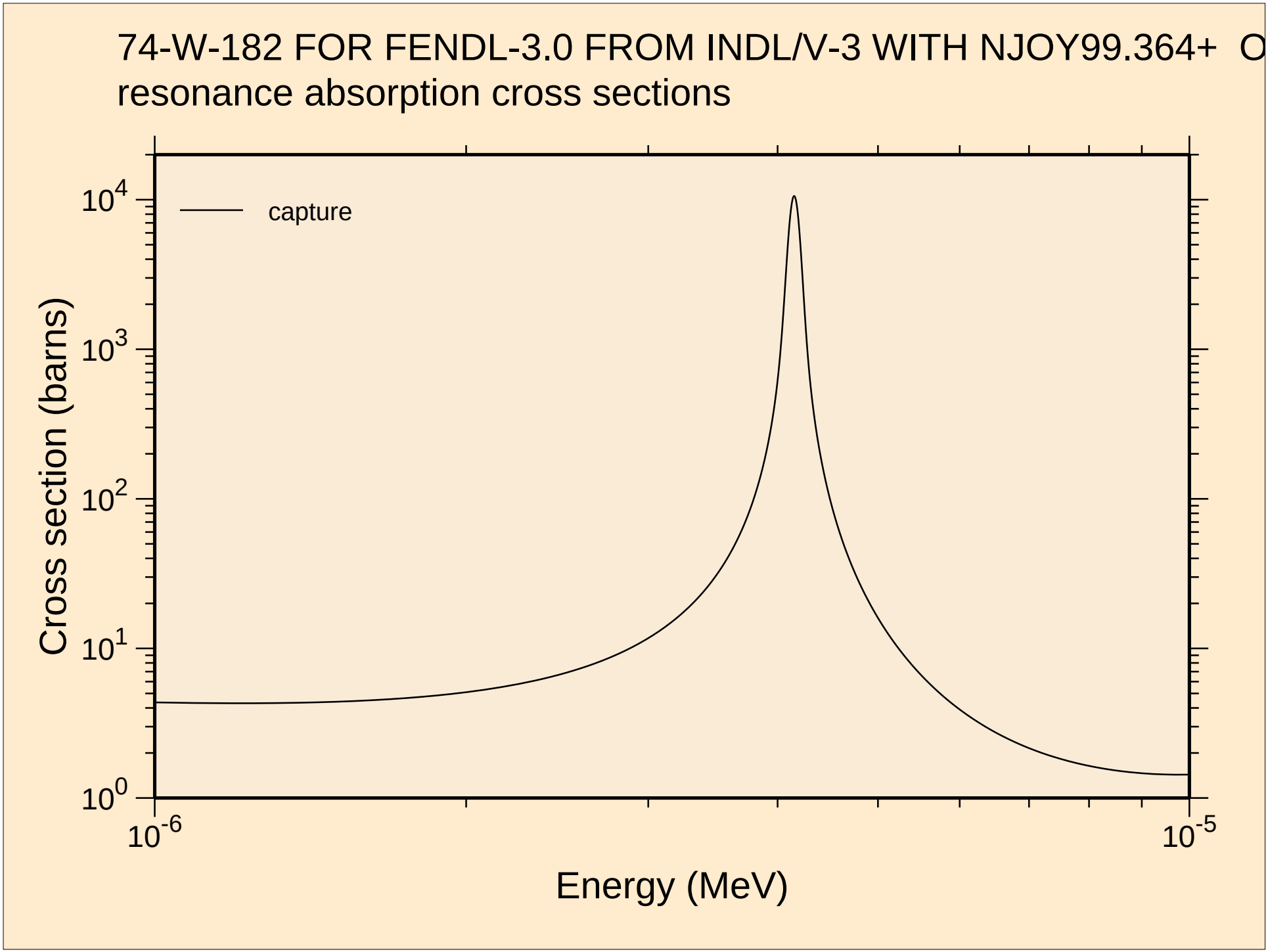

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Principal cross sections
Cross section (barns)
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
total
absorption
elastic
gamma production
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

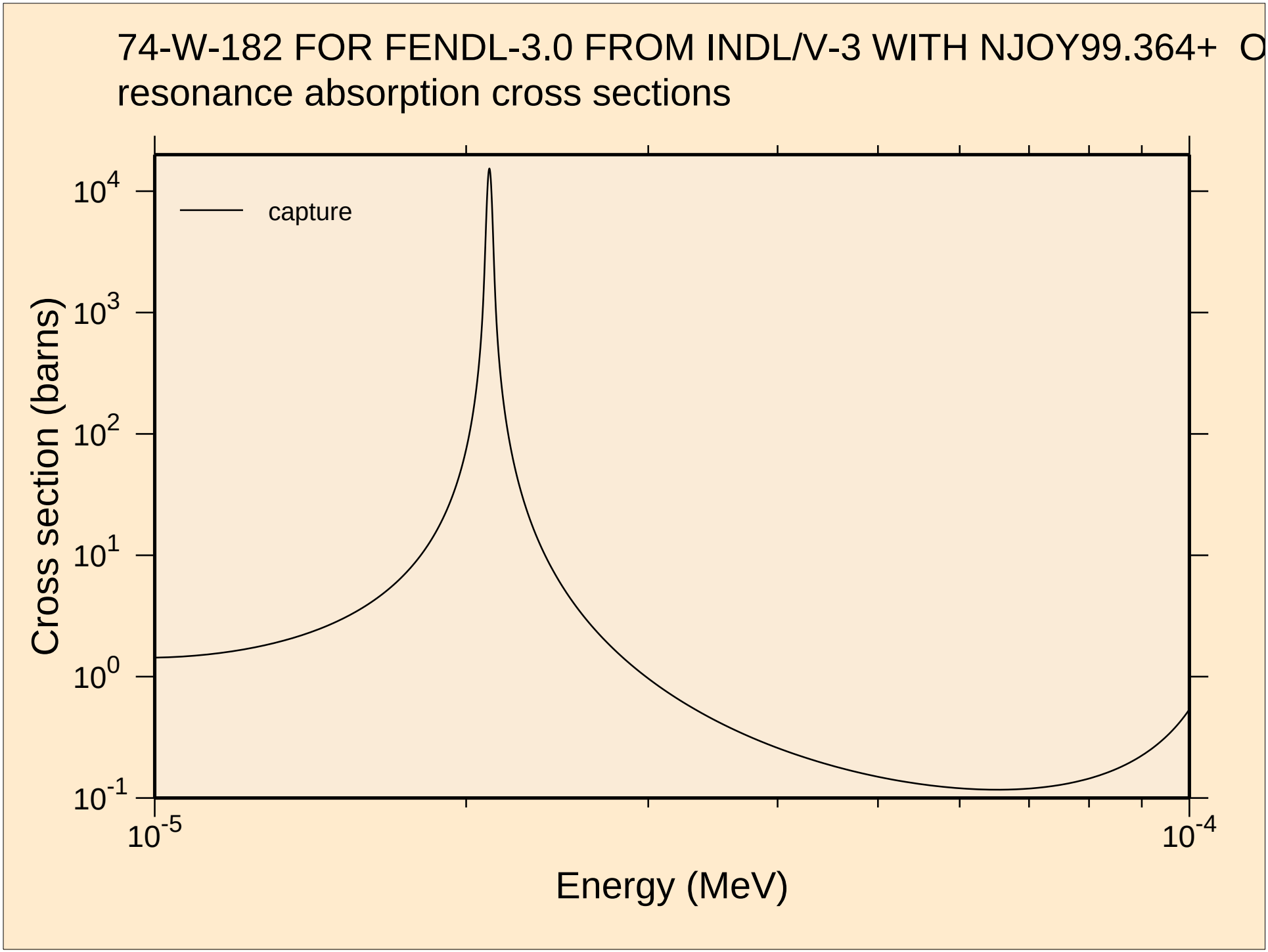

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^1
10^-6
10^-5
Energy (MeV)

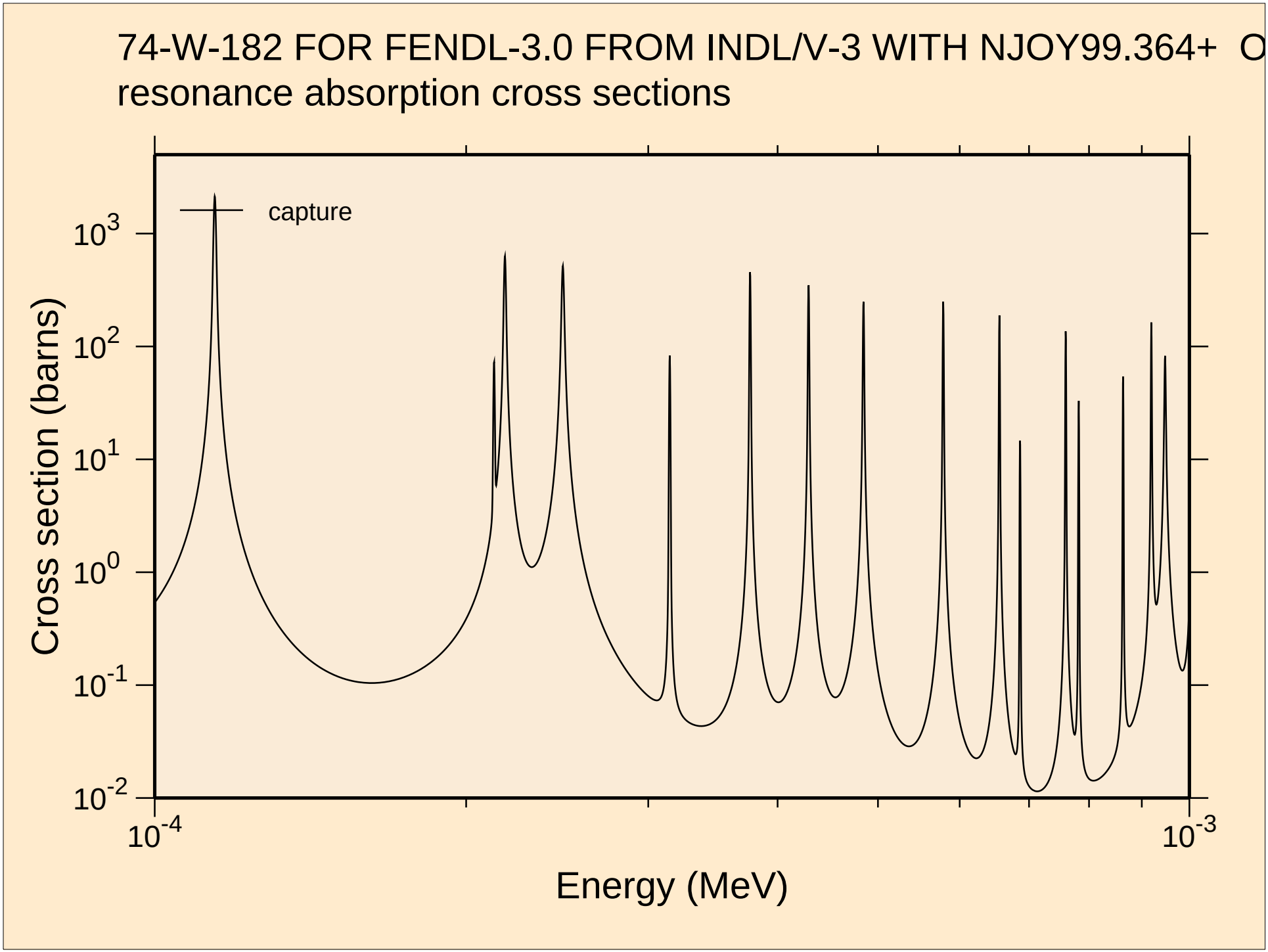

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^1
10^0
10^-5
10^-4
Energy (MeV)

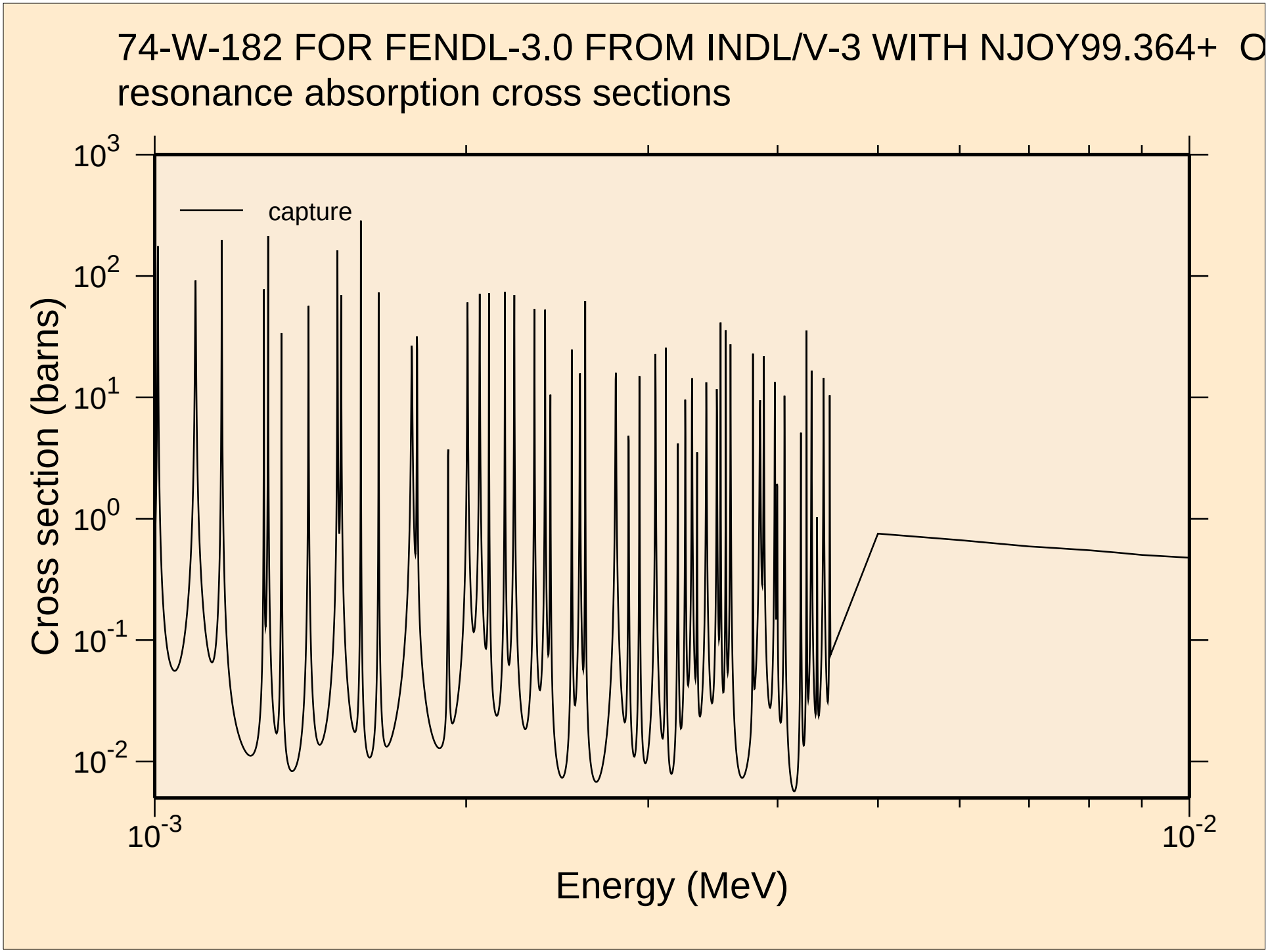

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^1
10^0
10^{-4}
10^{-3}
Energy (MeV)

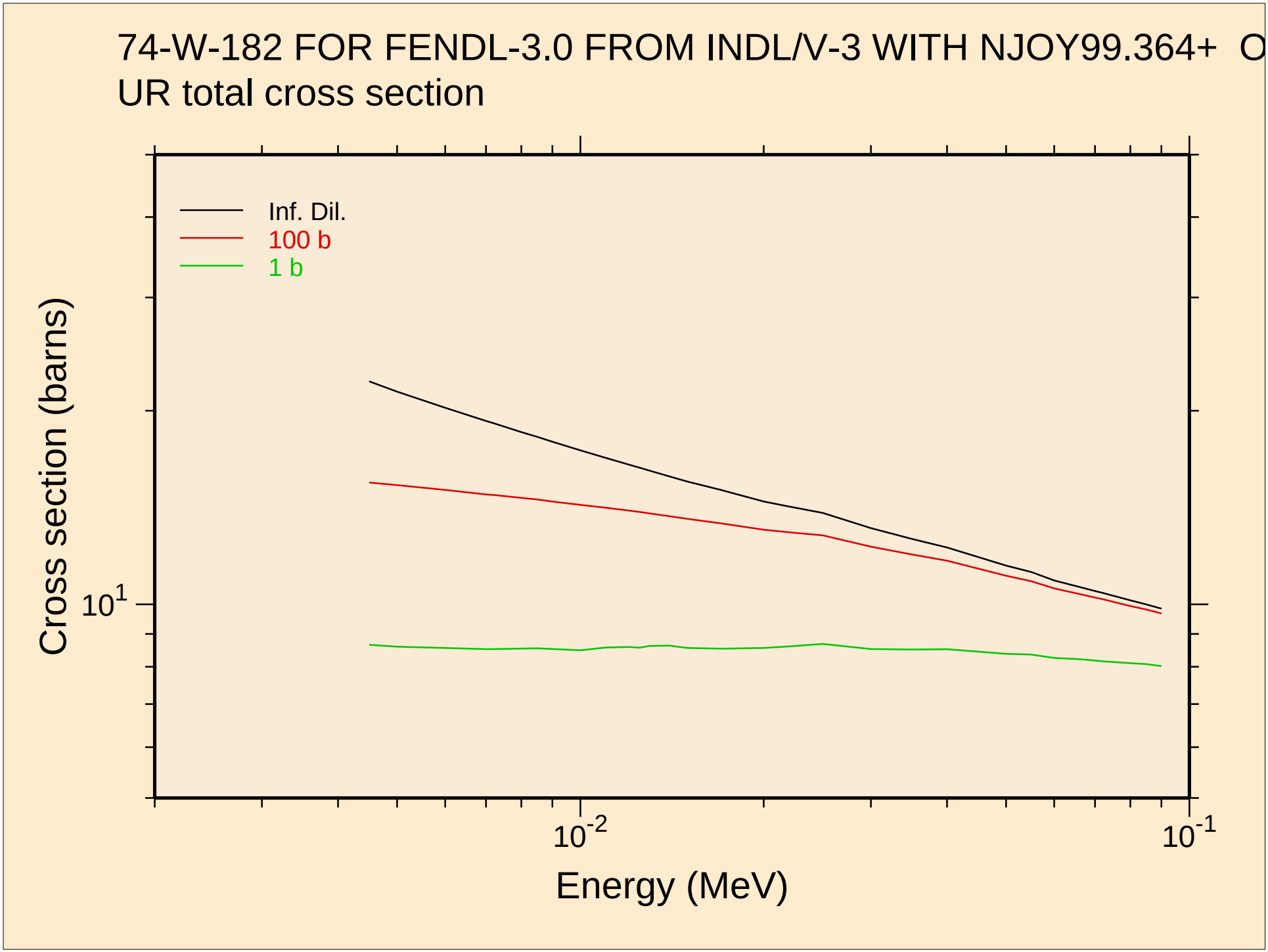

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-3
10^-2
Energy (MeV)

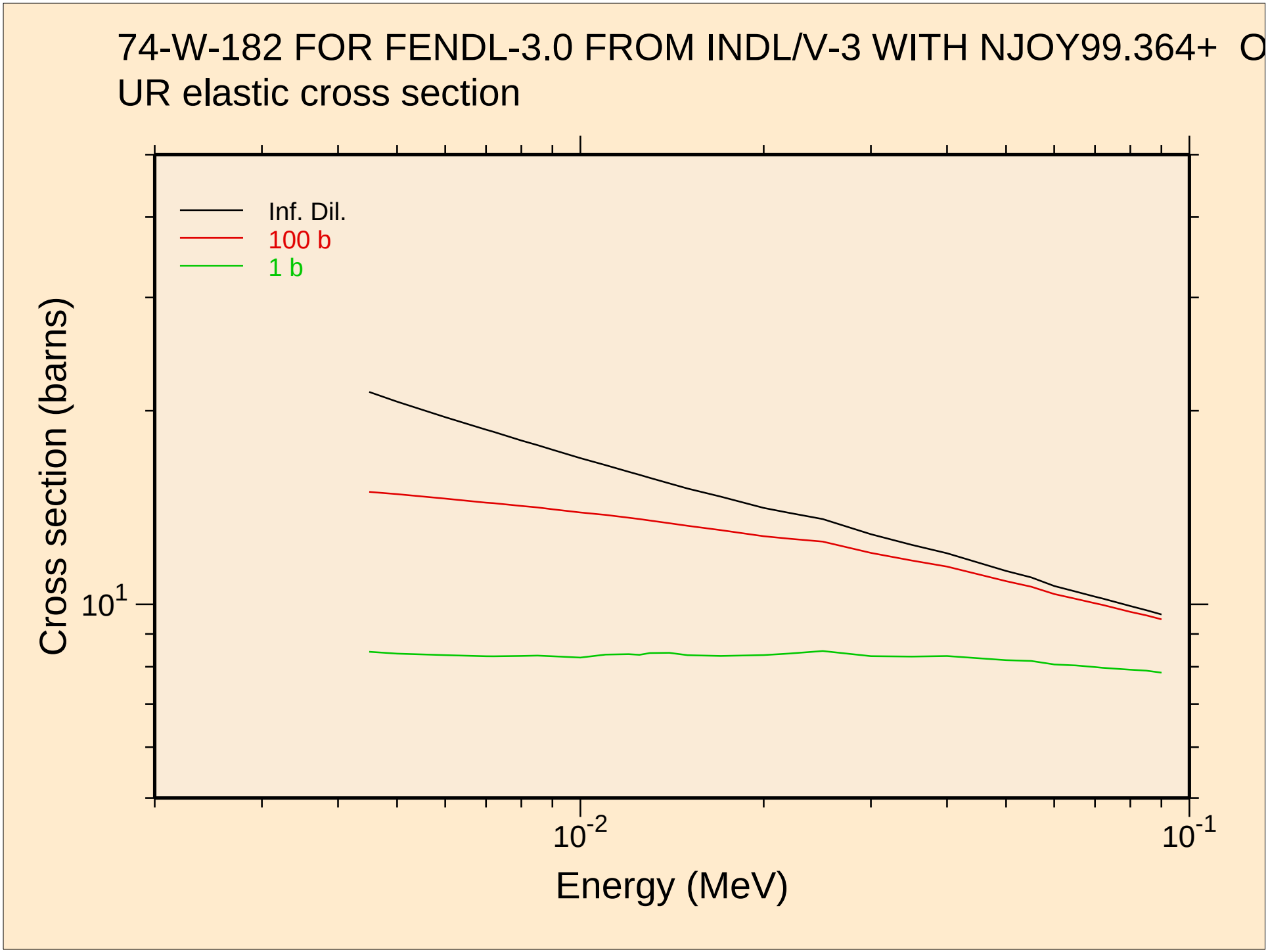

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
resonance absorption cross sections
capture
Cross section (barns)
10^4
10^3
10^2
10^1
10^0
10^-6
10^-5
Energy (MeV)

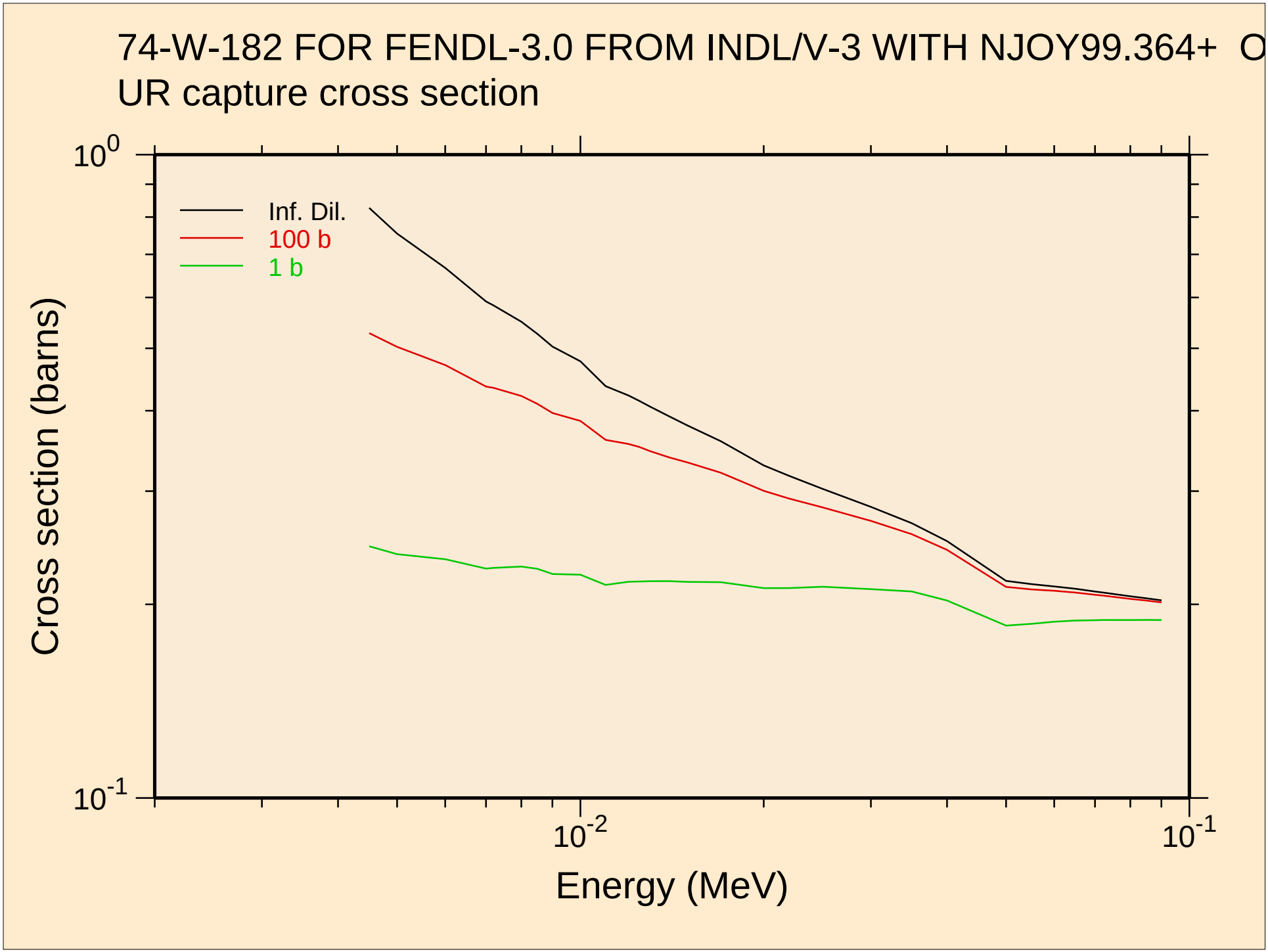

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
resonance absorption cross sections
capture
Cross section (barns)
10^4
10^3
10^2
10^1
10^0
10^-1
10^-5
10^-4
Energy (MeV)

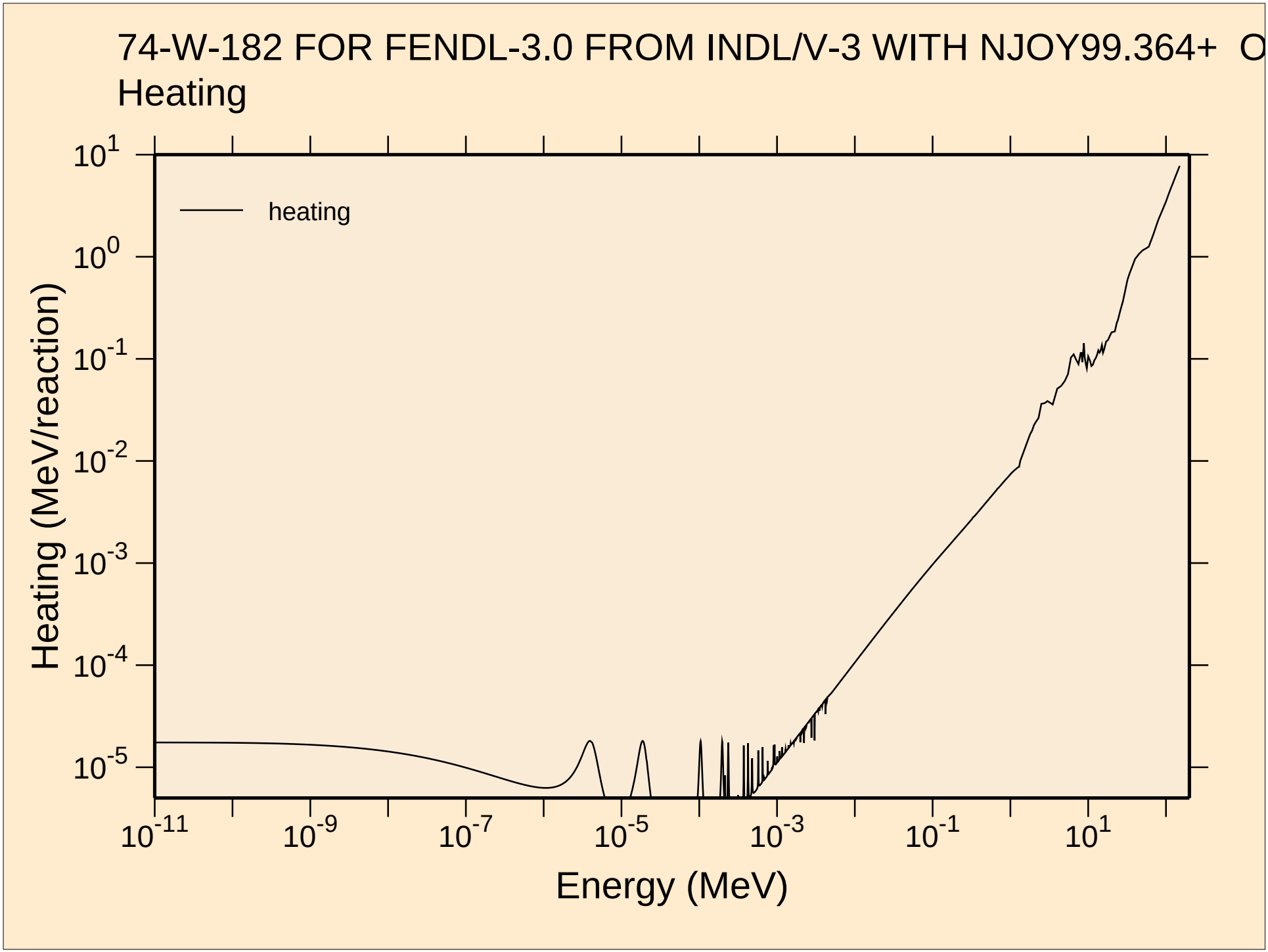

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
resonance absorption cross sections
capture
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-4
10^-3
Energy (MeV)

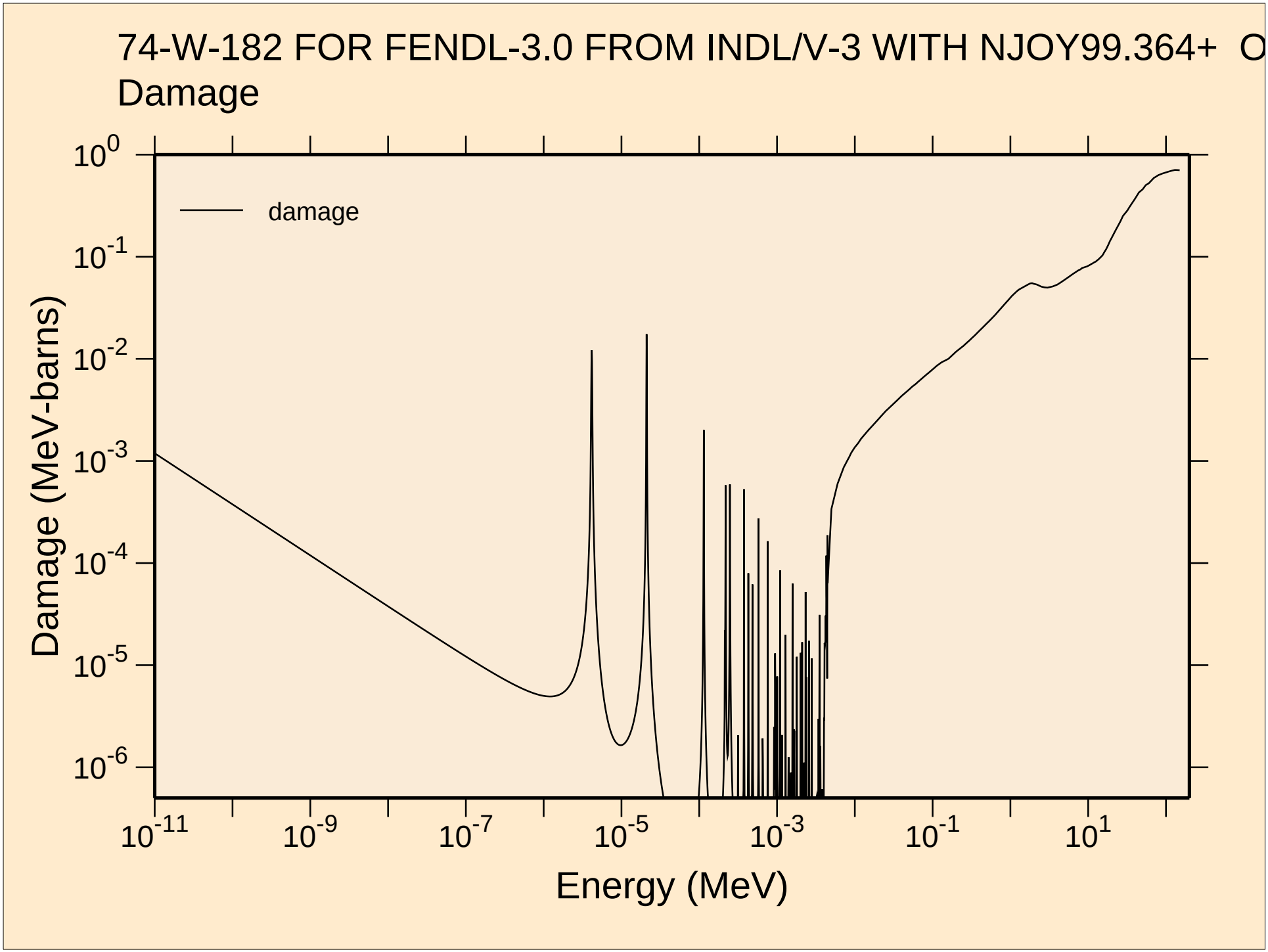

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
resonance absorption cross sections
capture
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-2
Energy (MeV)

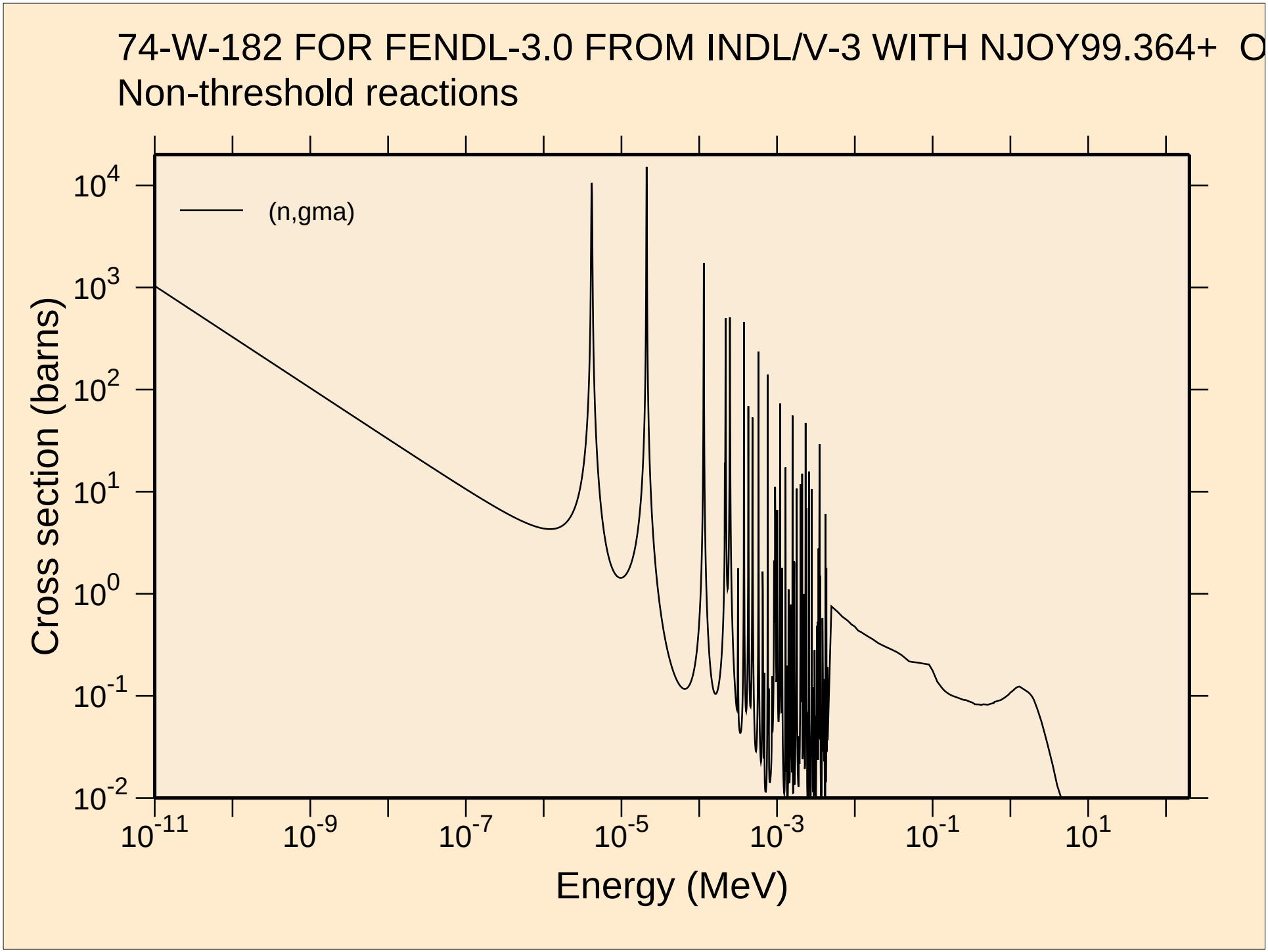

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
UR total cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^1
10^-2
10^-1
Energy (MeV)

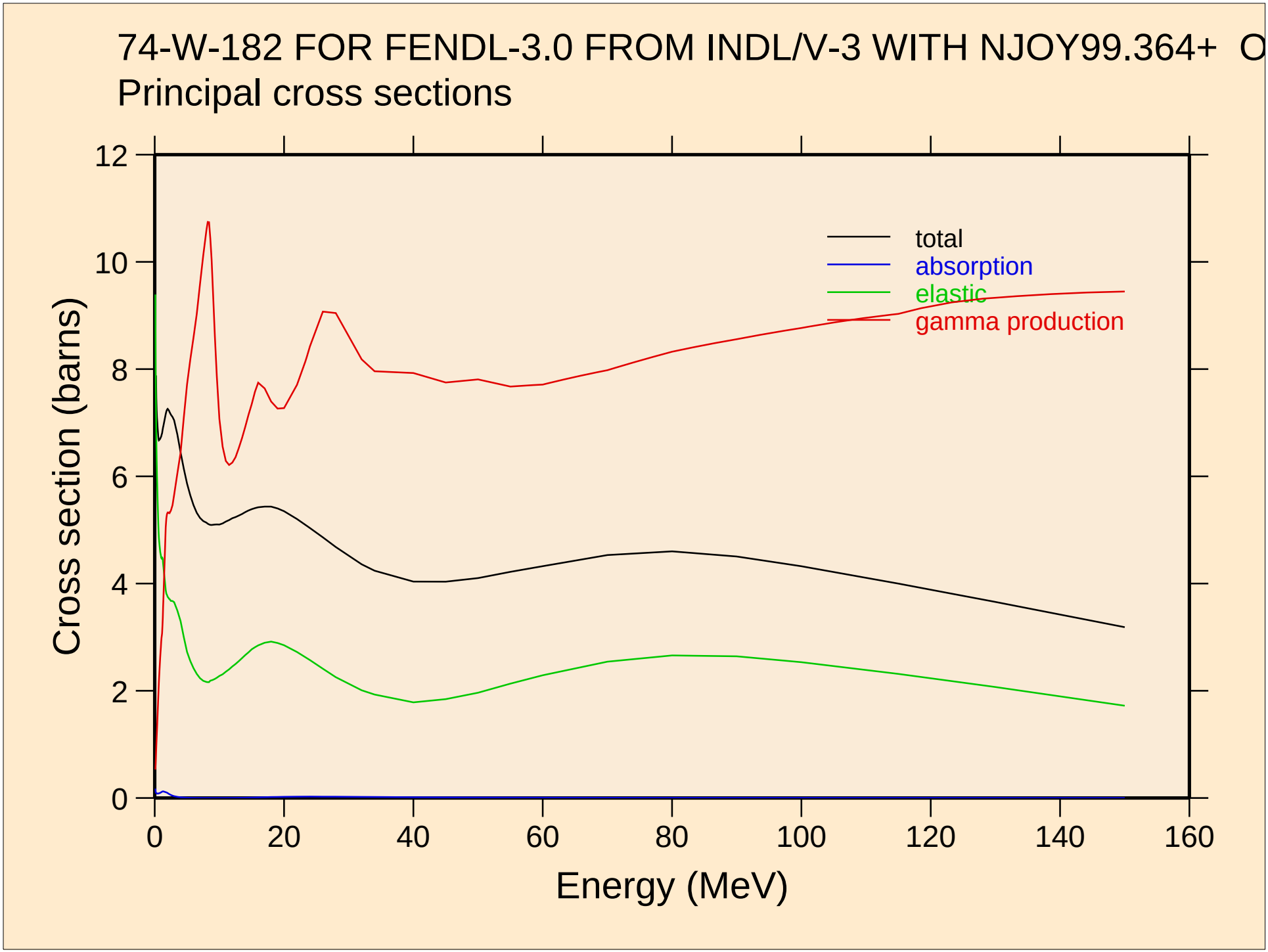

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
UR elastic cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^1
10^-2
10^-1
Energy (MeV)

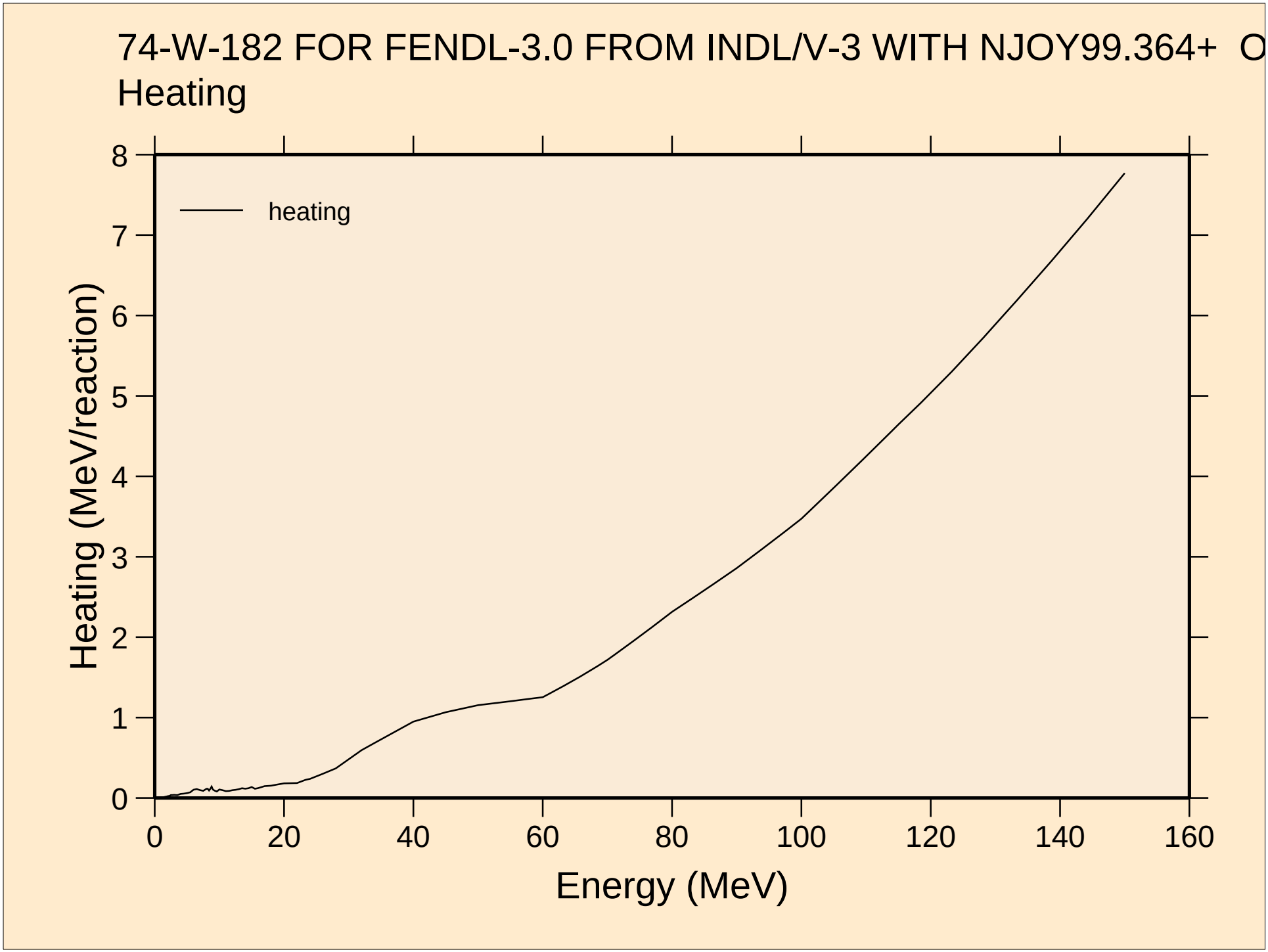

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
UR capture cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
Energy (MeV)
10^0
10^-1
10^-2
10^-1

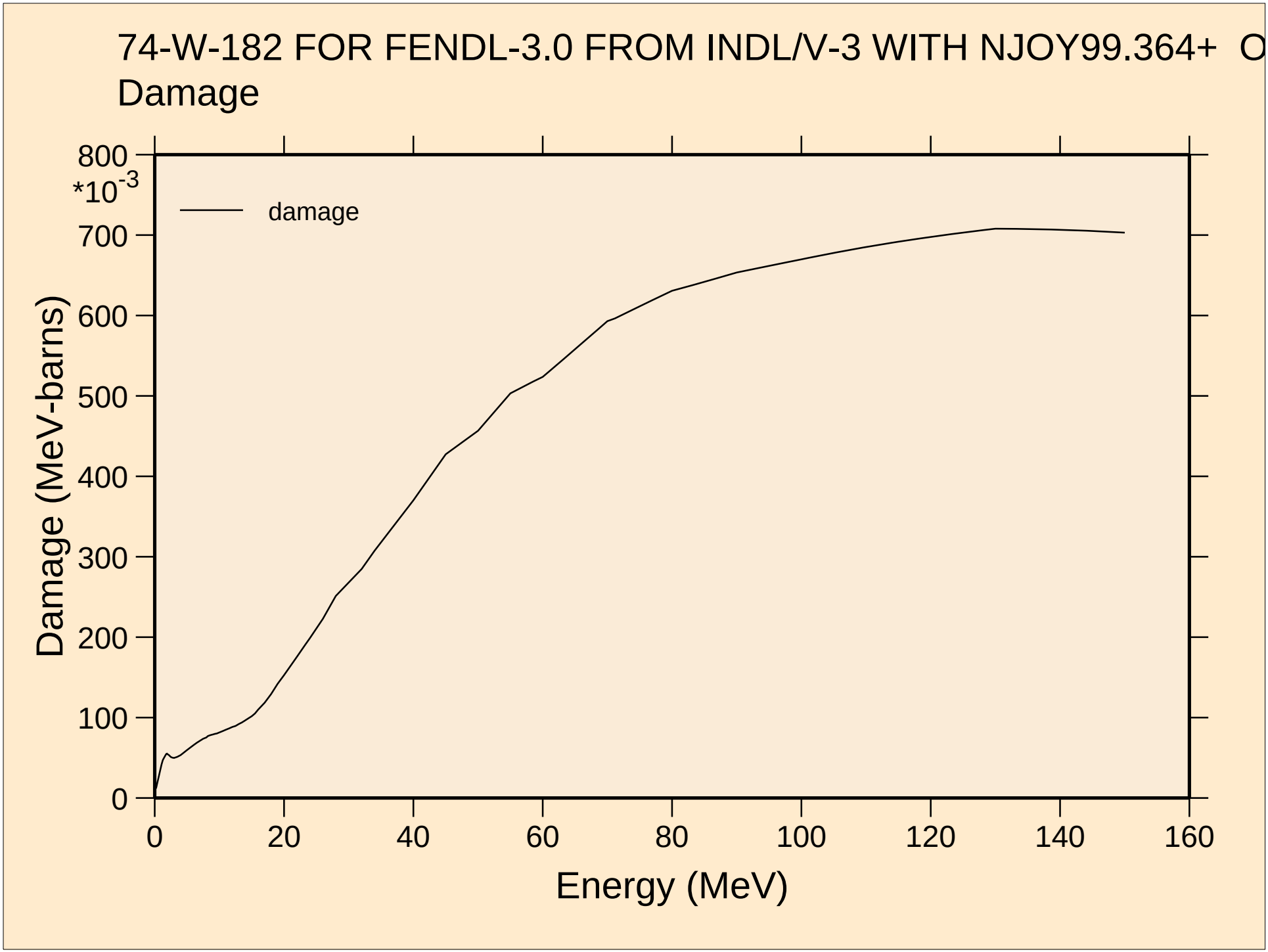

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

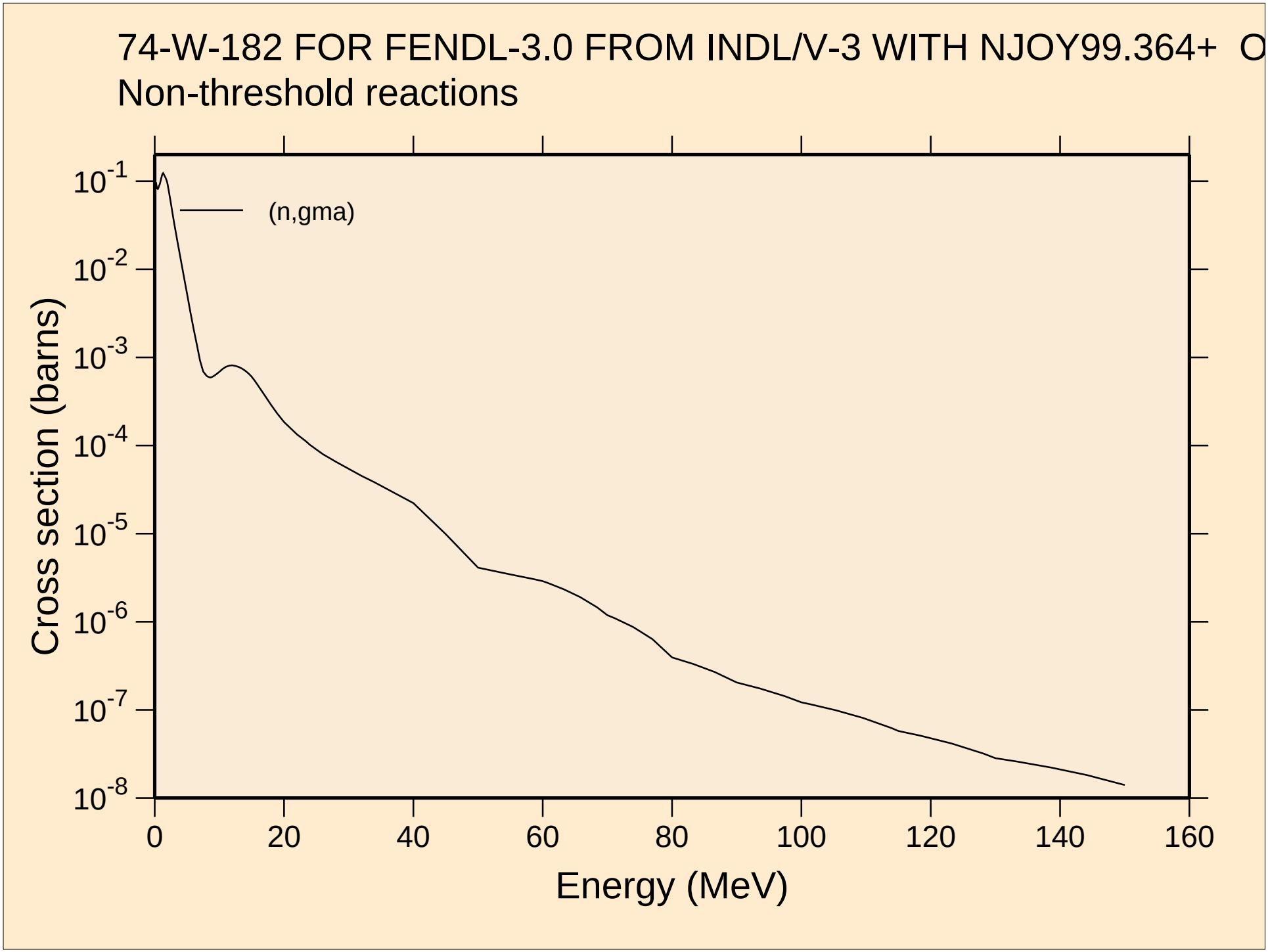

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Damage
damage
Damage (MeV-barns)
Energy (MeV)
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

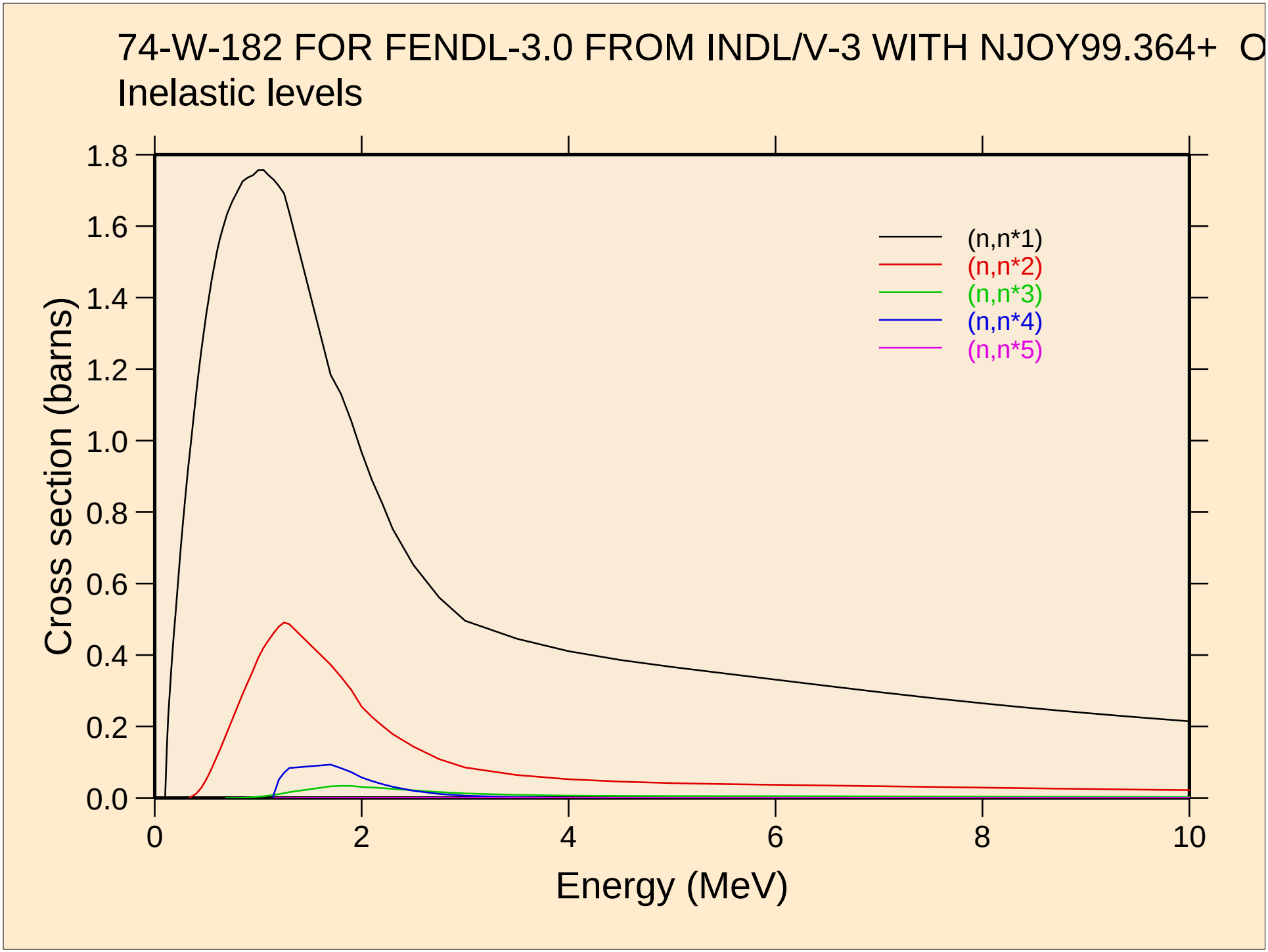

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Non-threshold reactions
(n,gma)
Cross section (barns)
Energy (MeV)
10^4
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

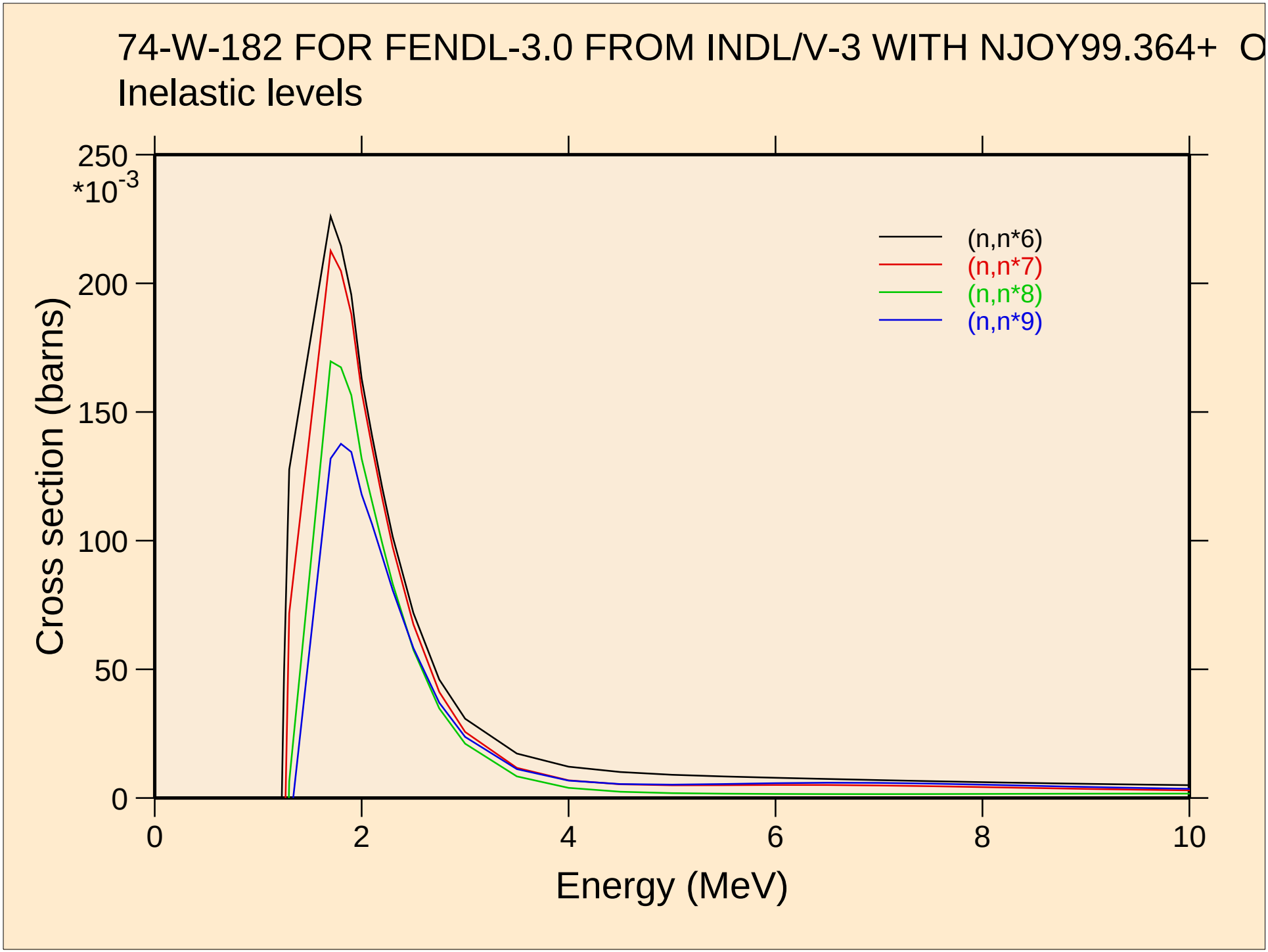

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production
0
2
4
6
8
10
12
0
20
40
60
80
100
120
140
160

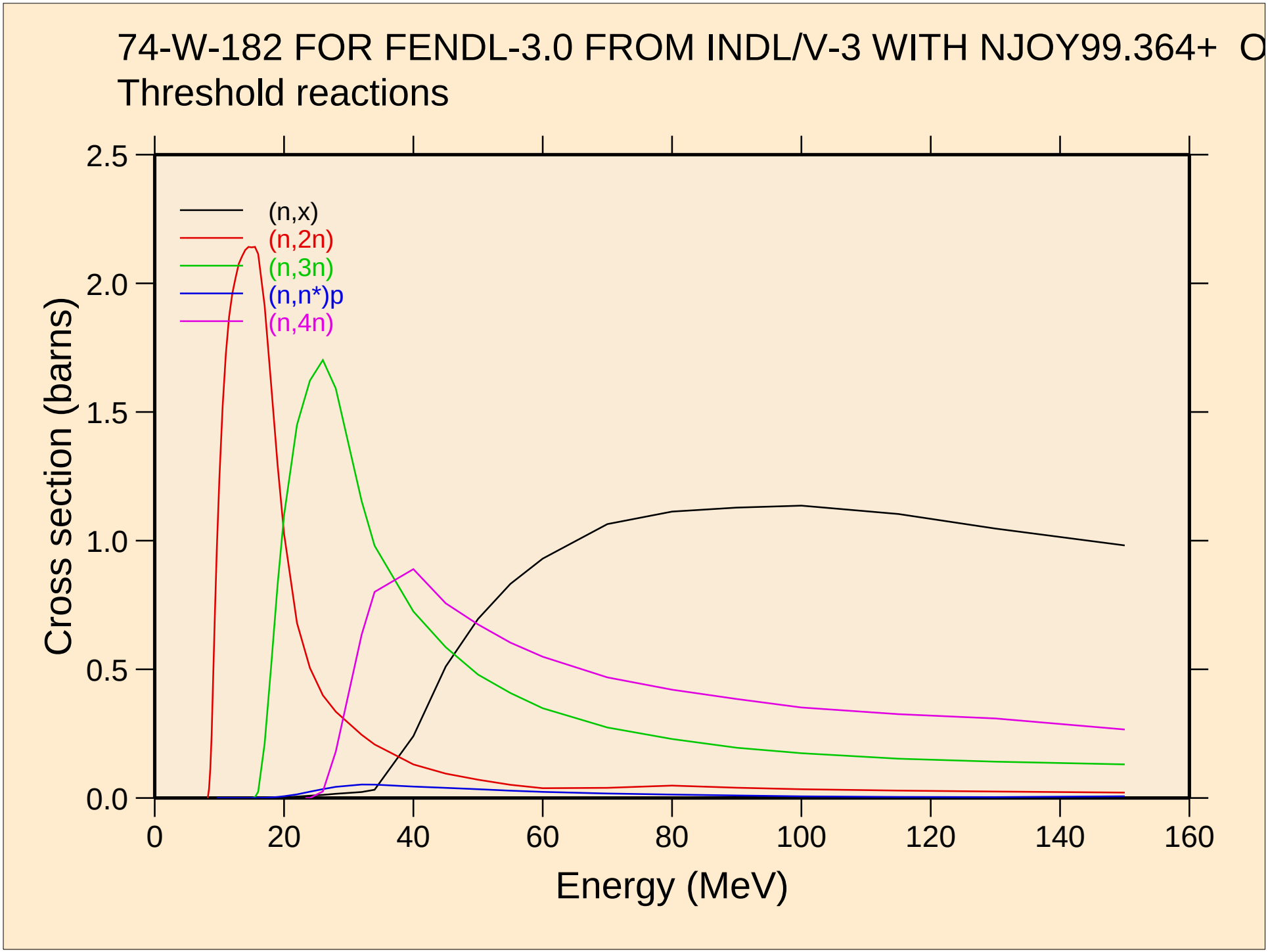

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
1
2
3
4
5
6
7
8
0
20
40
60
80
100
120
140
160

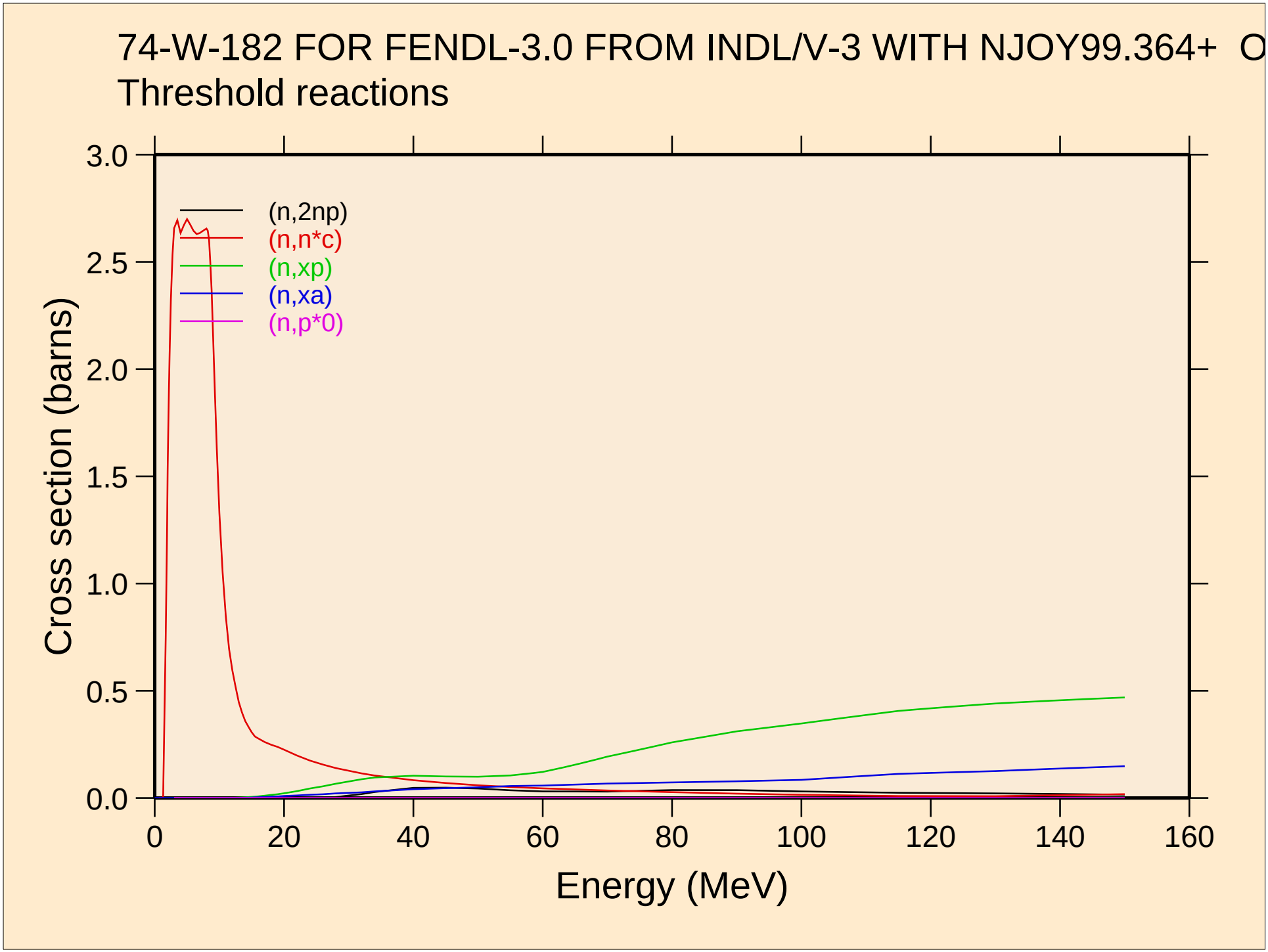

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Damage
800
*10-3
700
600
500
400
300
200
100
0
damage
Damage (MeV-barns)
0
20
40
60
80
100
120
140
160
Energy (MeV)

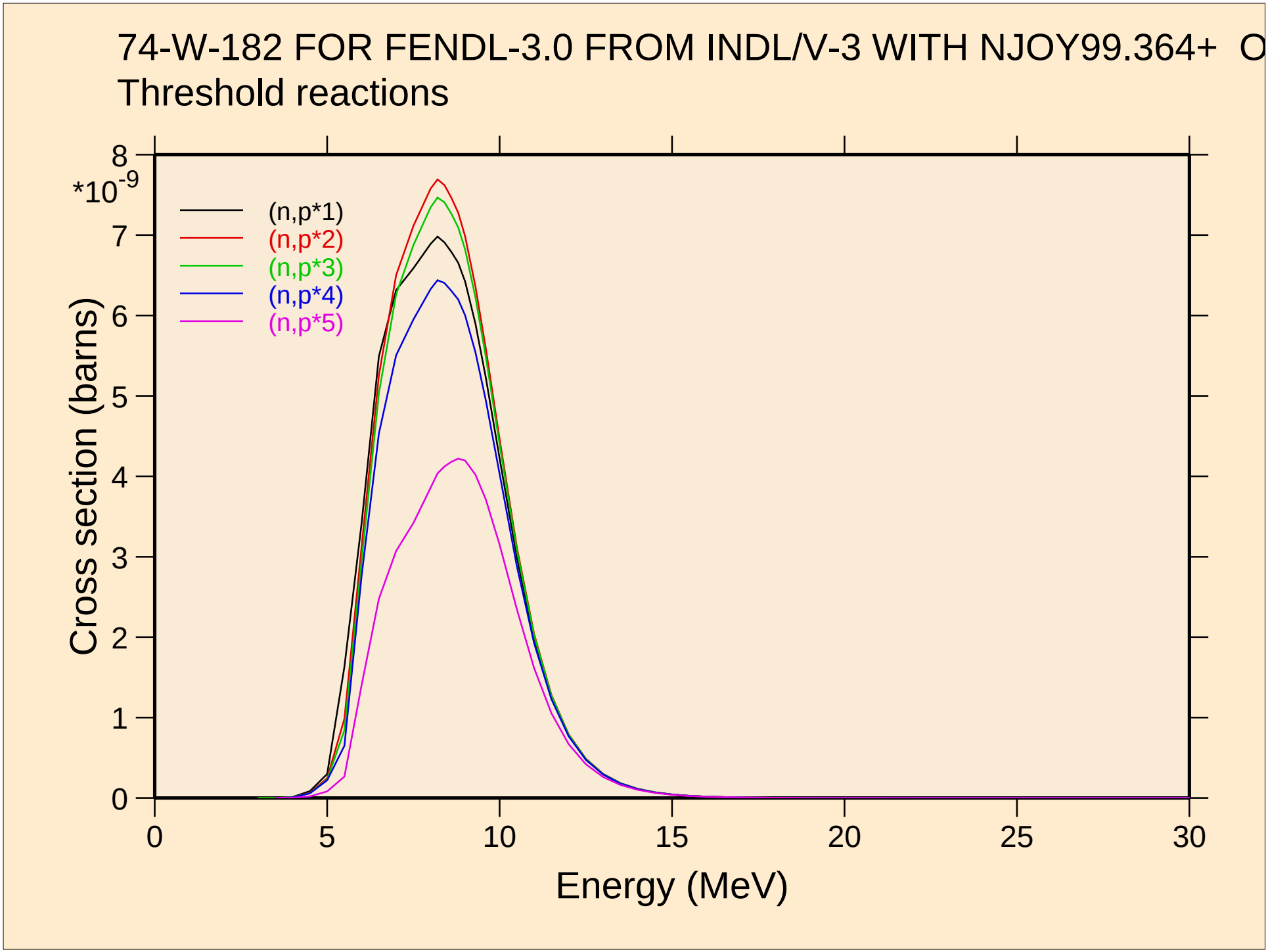

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Non-threshold reactions
(n,gma)
Cross section (barns)
10-1
10-2
10-3
10-4
10-5
10-6
10-7
10-8
0
20
40
60
80
100
120
140
160
Energy (MeV)

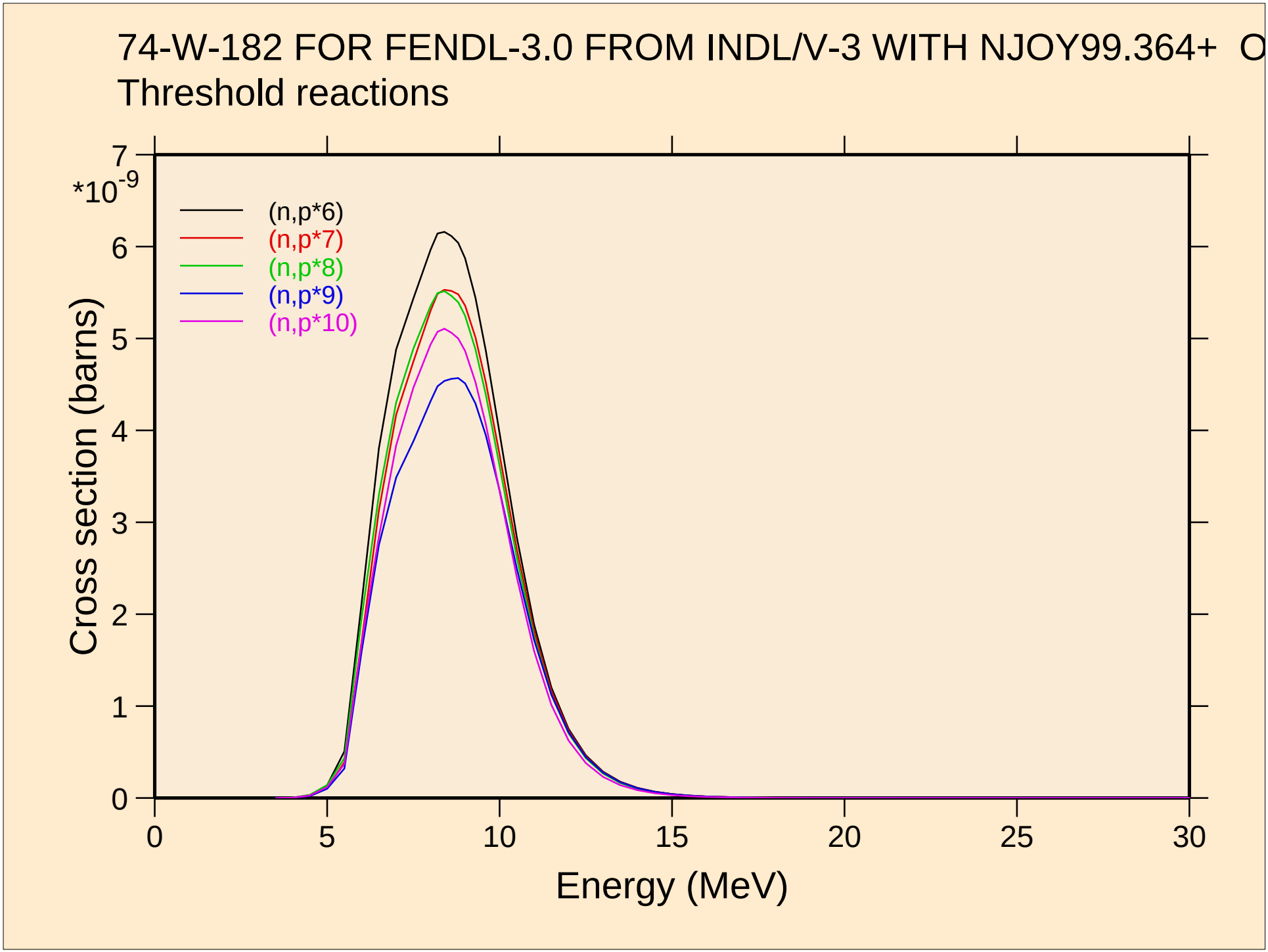

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Inelastic levels
Cross section (barns)
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
0
2
4
6
8
10

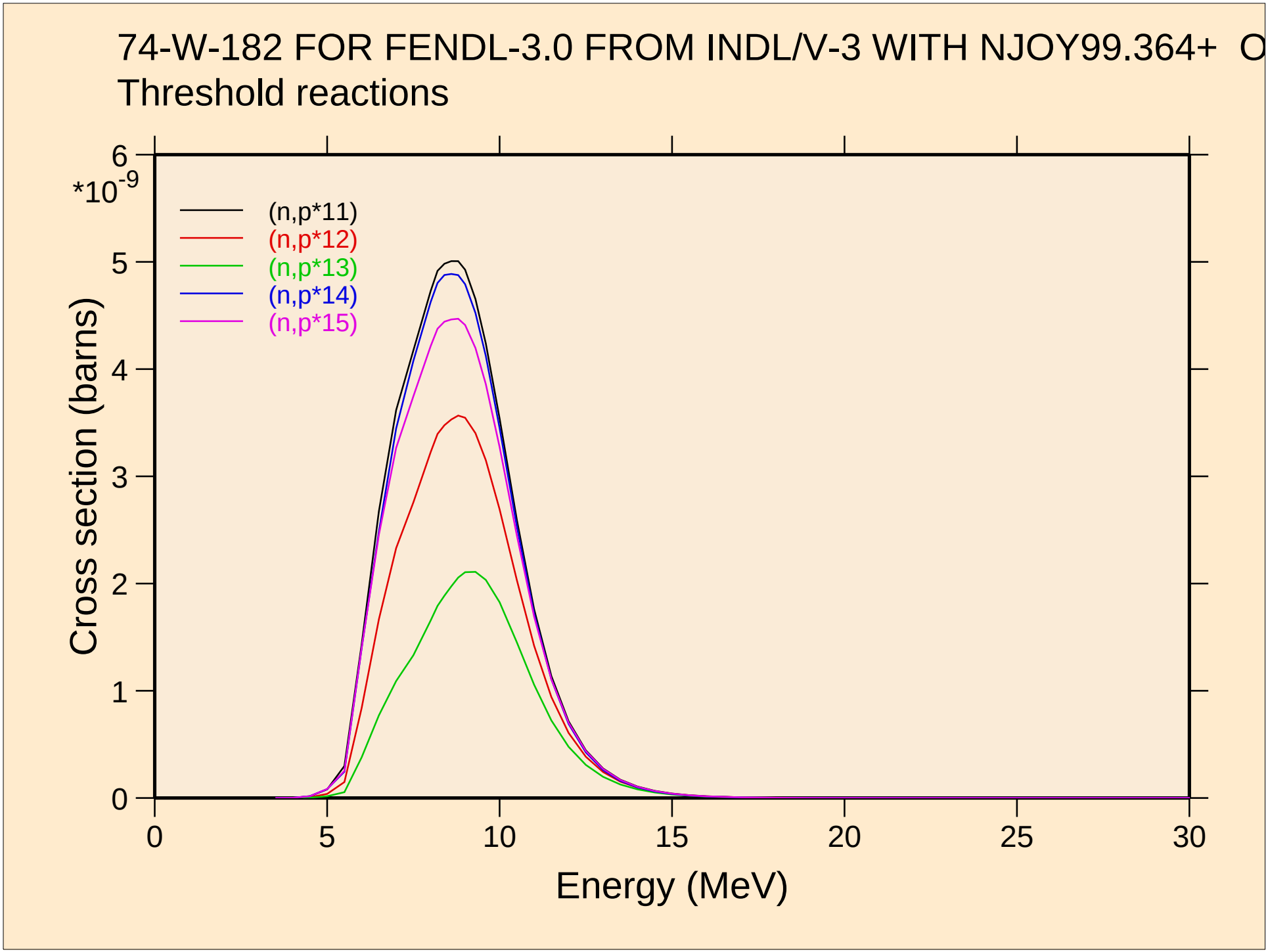

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Inelastic levels
250
*10-3
200
150
100
50
0
Cross section (barns)
0
2
4
6
8
10
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)

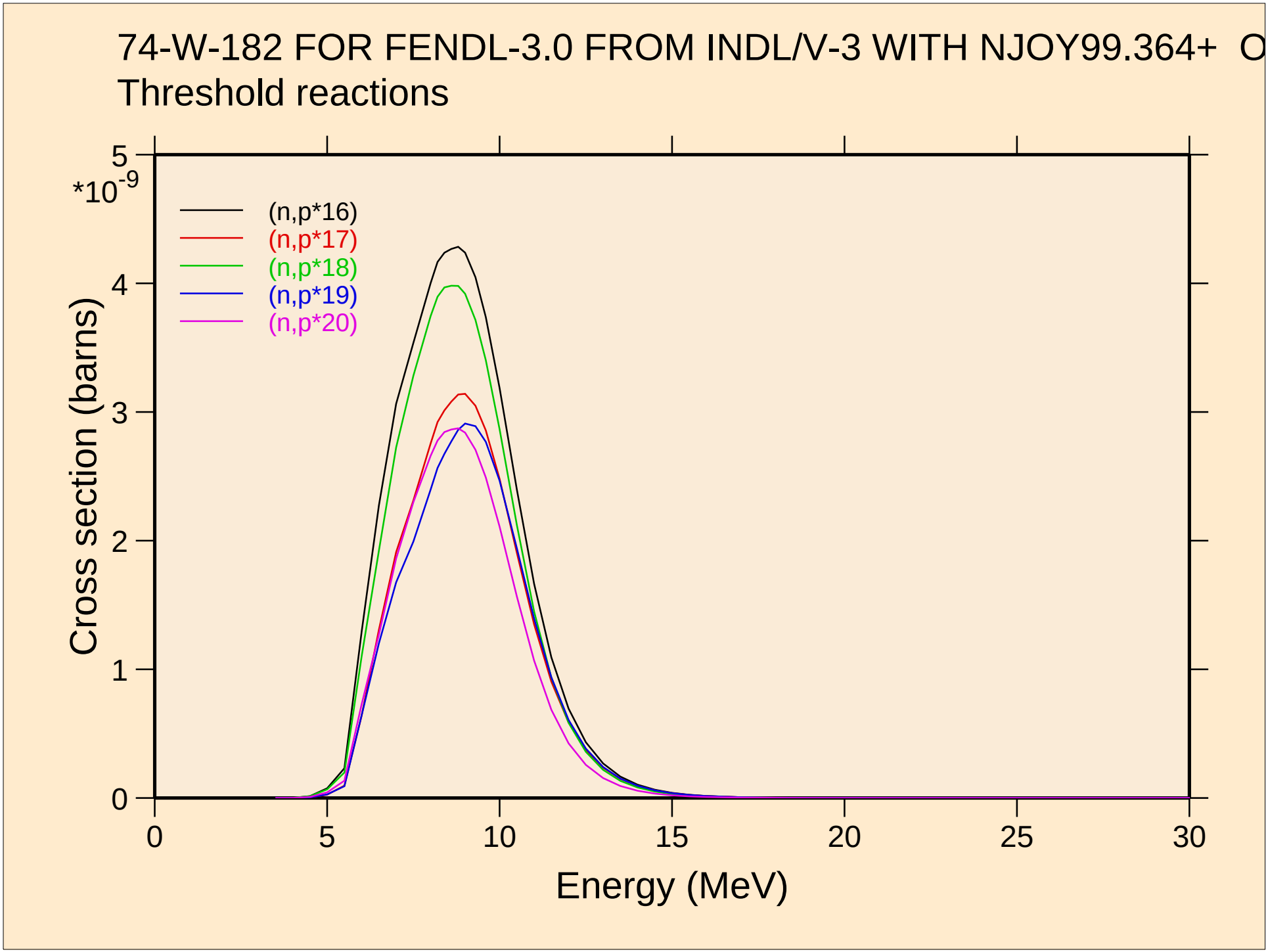

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Threshold reactions
(n,x)
(n,2n)
(n,3n)
(n,n*)p
(n,4n)
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
0
20
40
60
80
100
120
140
160

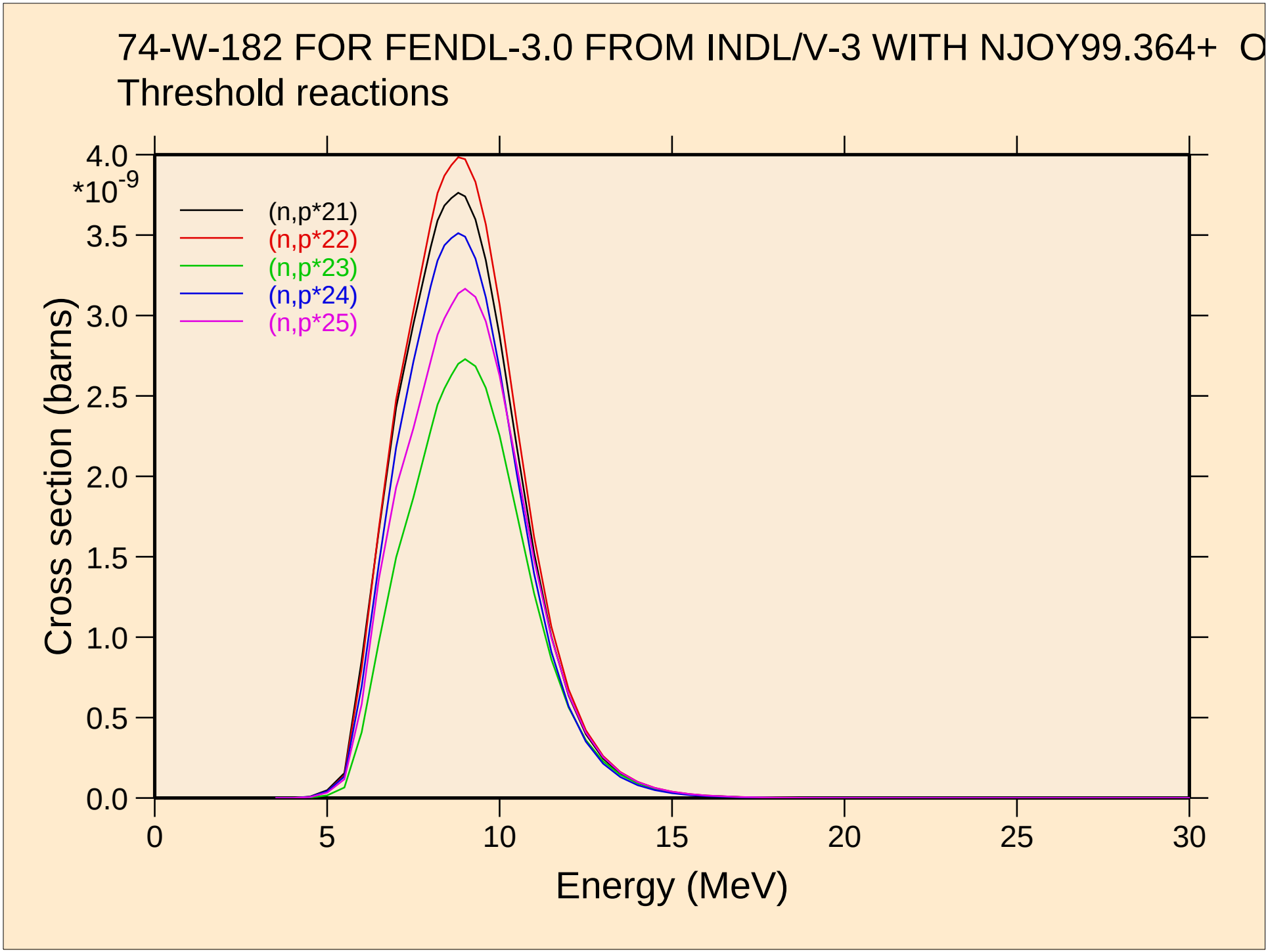

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Threshold reactions
(n,2np)
(n,n*c)
(n,xp)
(n,xa)
(n,p*0)
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0
20
40
60
80
100
120
140
160

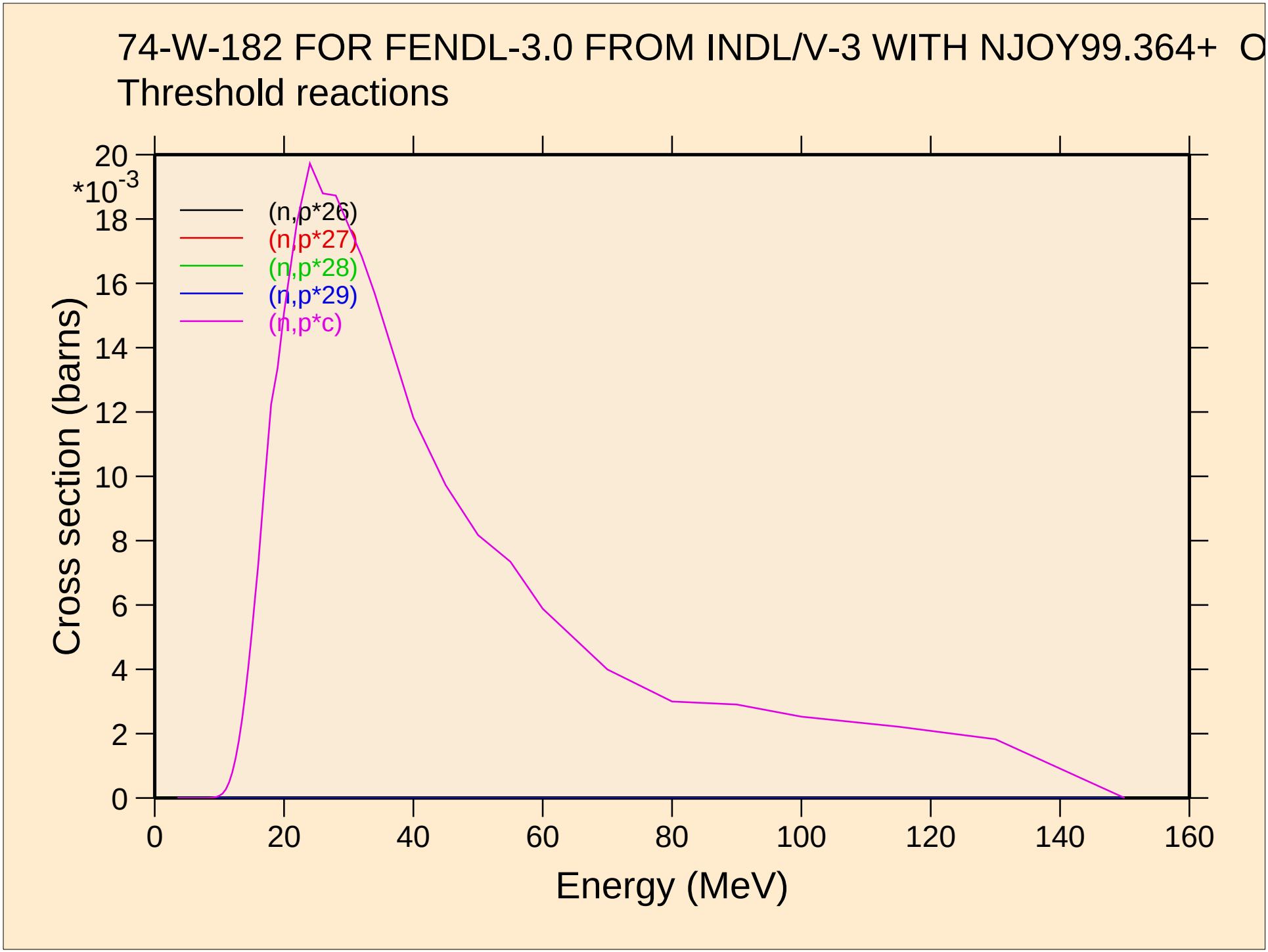

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Threshold reactions
*10-9
Cross section (barns)
(n,p*1)
(n,p*2)
(n,p*3)
(n,p*4)
(n,p*5)
0
1
2
3
4
5
6
7
8
0
5
10
15
20
25
30
Energy (MeV)

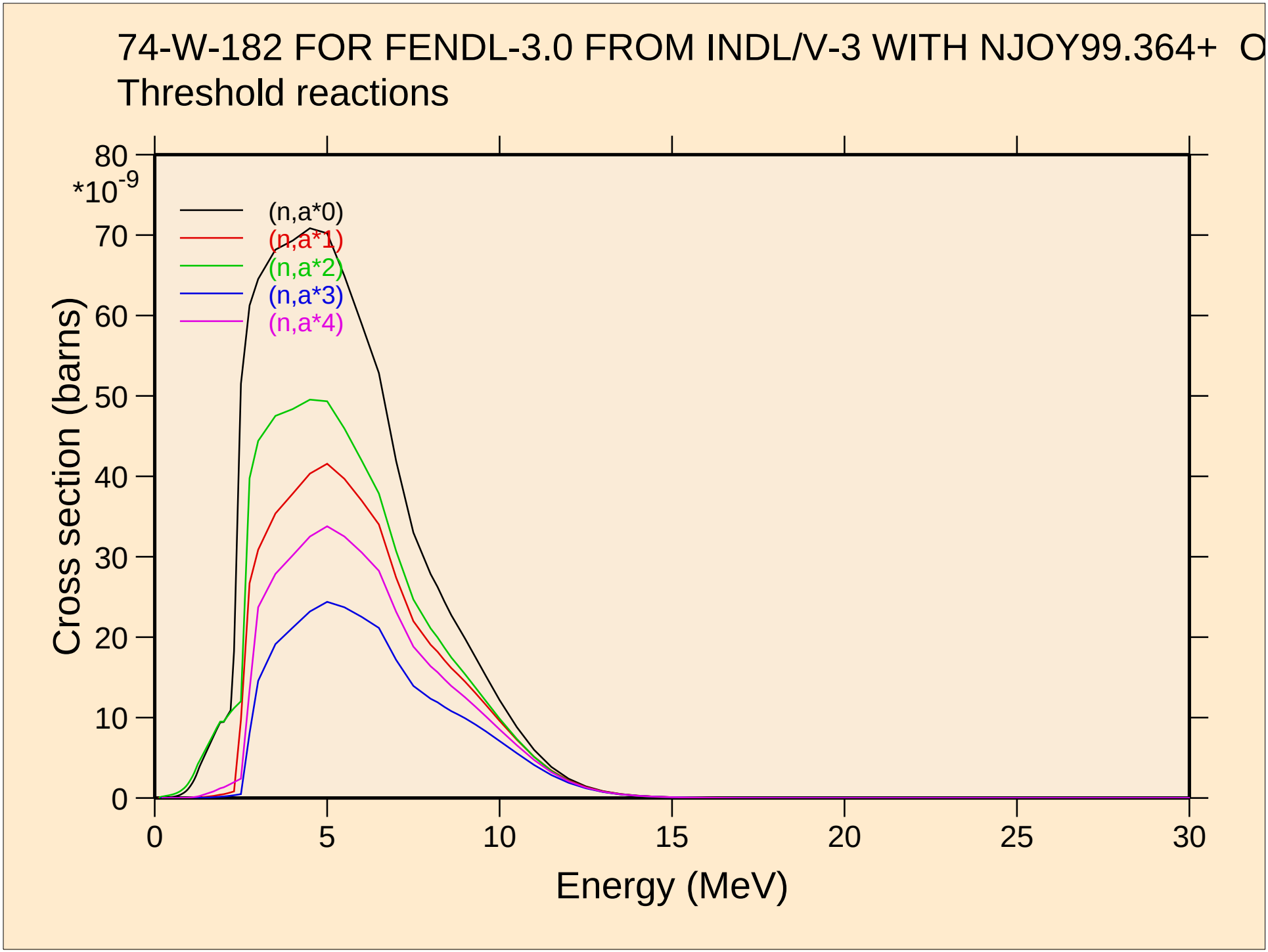

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Threshold reactions
*10-9
(n,p*6)
(n,p*7)
(n,p*8)
(n,p*9)
(n,p*10)
Cross section (barns)
Energy (MeV)
0
1
2
3
4
5
6
7
0
5
10
15
20
25
30

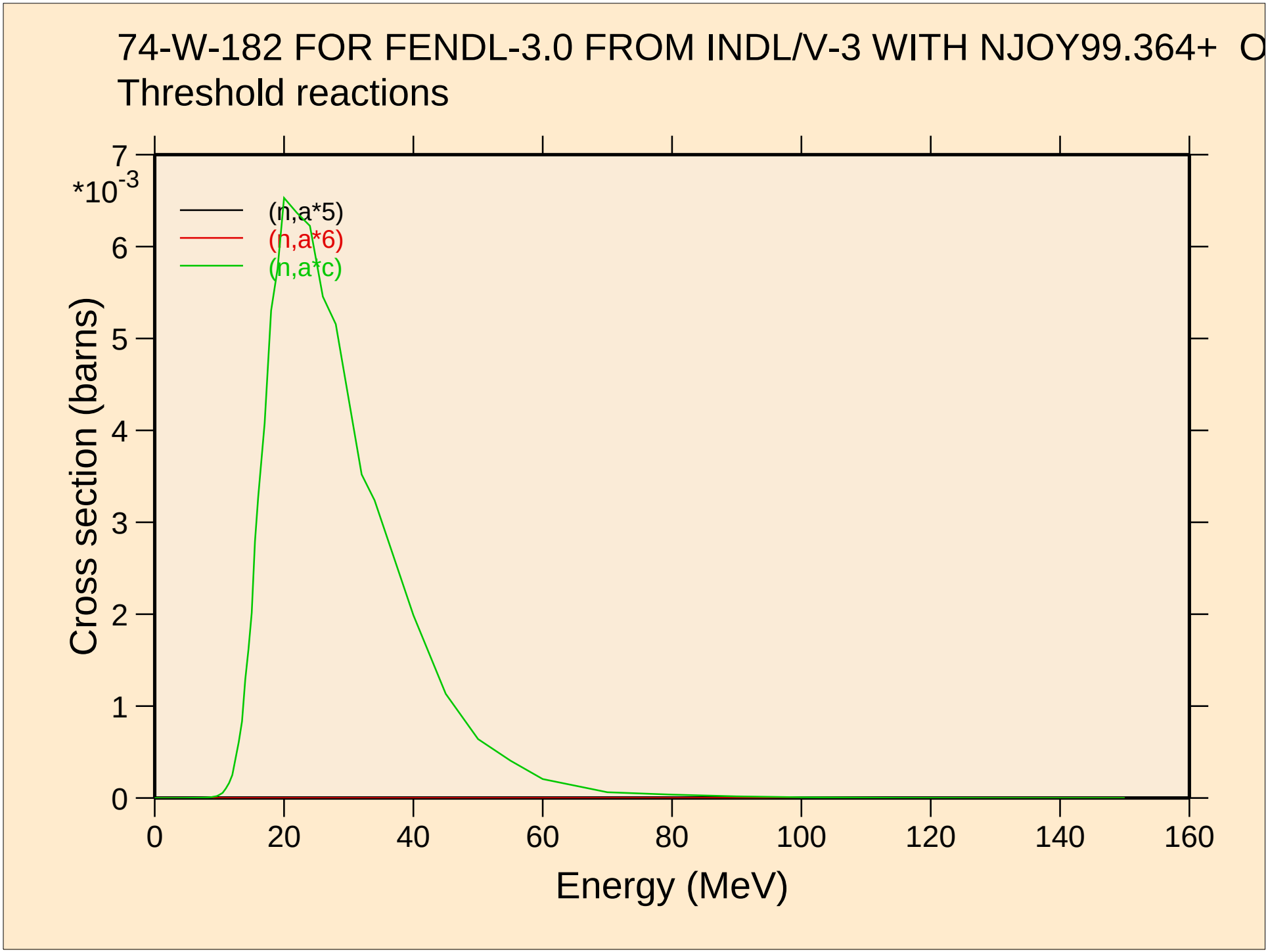

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Threshold reactions
*10-9
Cross section (barns)
(n,p*11)
(n,p*12)
(n,p*13)
(n,p*14)
(n,p*15)
0
1
2
3
4
5
6
0
5
10
15
20
25
30
Energy (MeV)

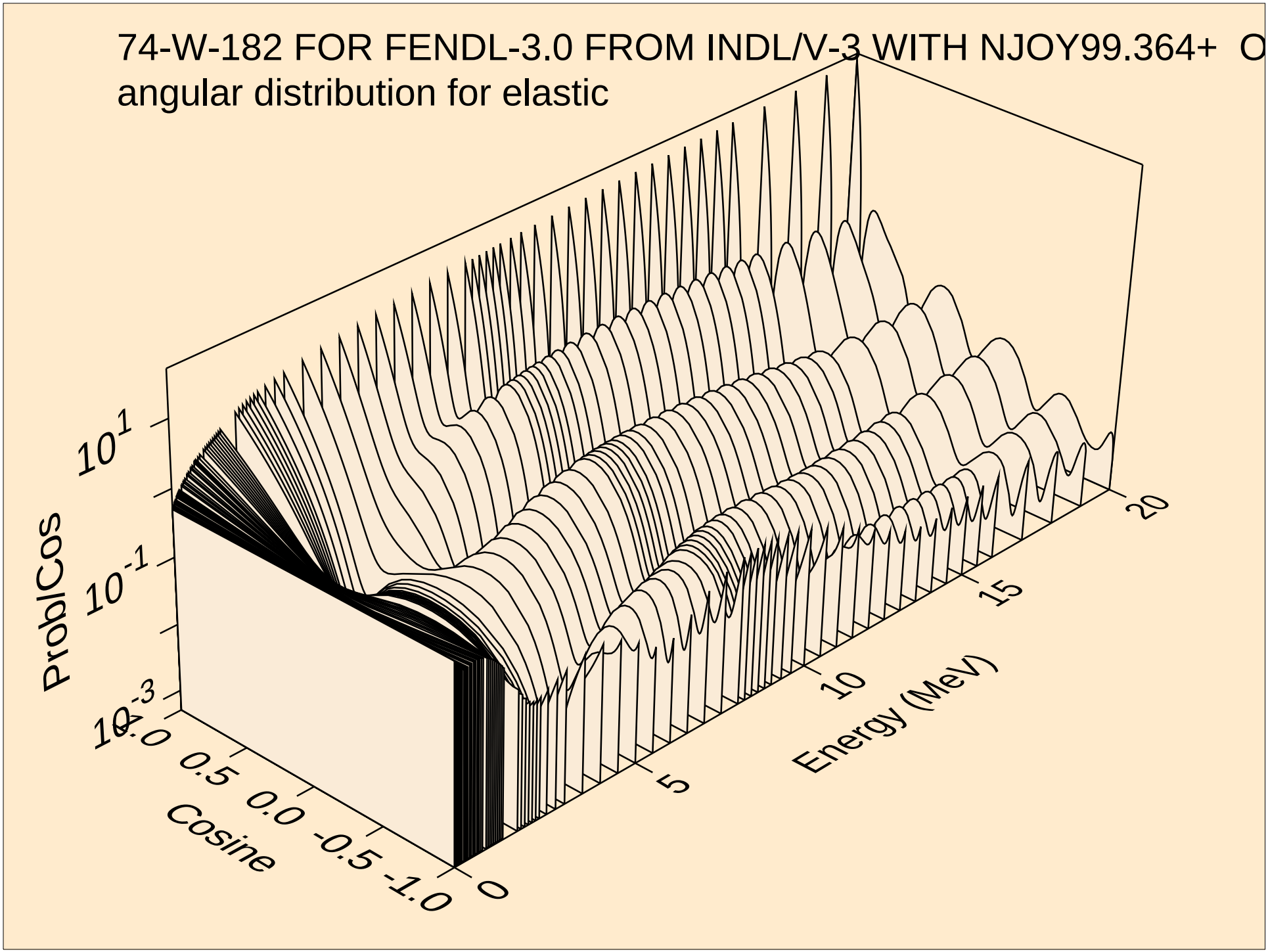

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Threshold reactions
*10-9
Cross section (barns)
(n,p*16)
(n,p*17)
(n,p*18)
(n,p*19)
(n,p*20)
0
1
2
3
4
5
0
5
10
15
20
25
30
Energy (MeV)

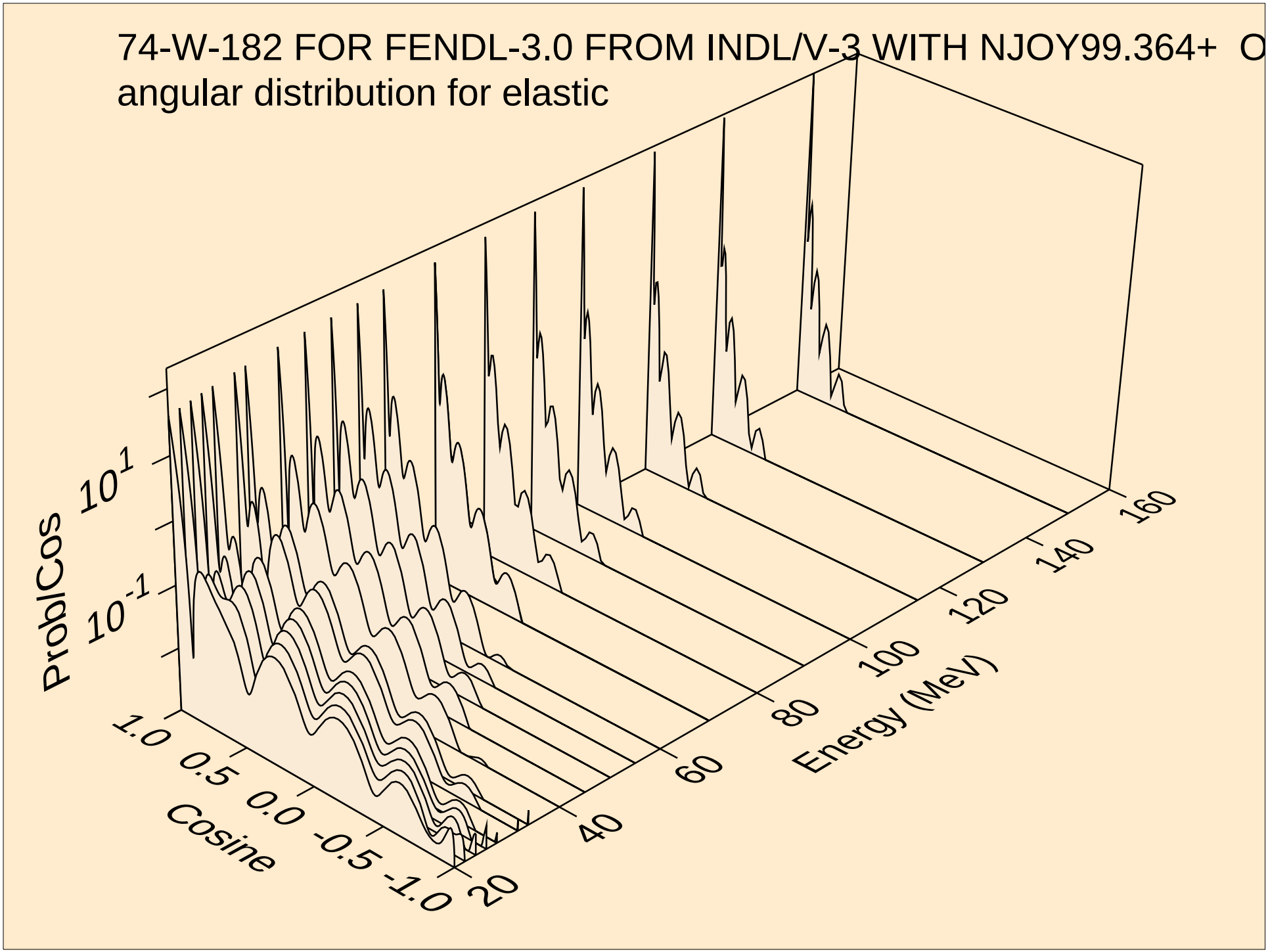

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Threshold reactions
Cross section (barns)
*10-9
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
(n,p*21)
(n,p*22)
(n,p*23)
(n,p*24)
(n,p*25)
0
5
10
15
20
25
30
Energy (MeV)

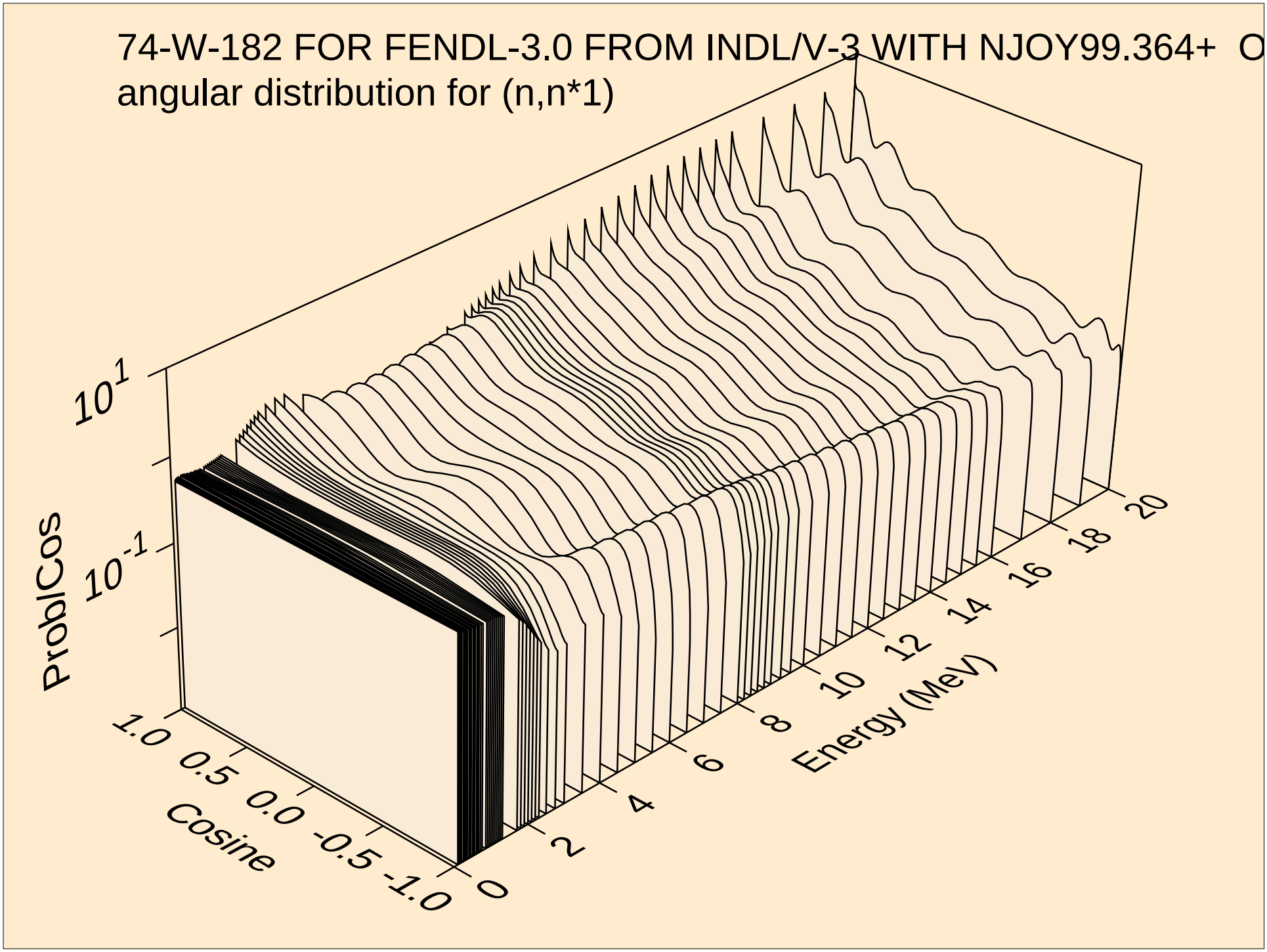

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Threshold reactions
*10-3
Cross section (barns)
(n,p*26)
(n,p*27)
(n,p*28)
(n,p*29)
(n,p*c)
0
2
4
6
8
10
12
14
16
18
20
0
20
40
60
80
100
120
140
160
Energy (MeV)

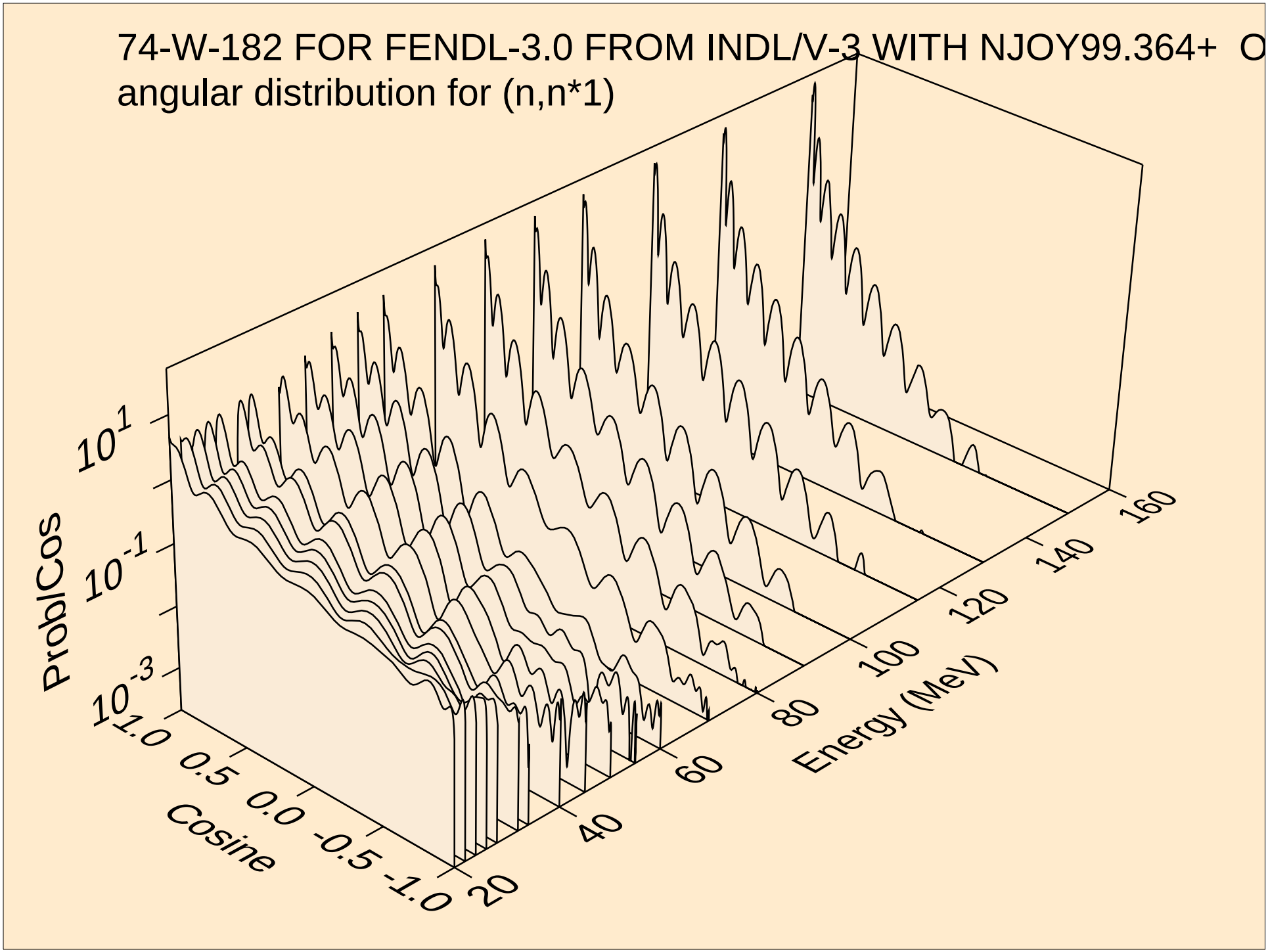

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Threshold reactions
*10-9
(n,a*0)
(n,a*1)
(n,a*2)
(n,a*3)
(n,a*4)
Cross section (barns)
Energy (MeV)
0
10
20
30
40
50
60
70
80
0
5
10
15
20
25
30

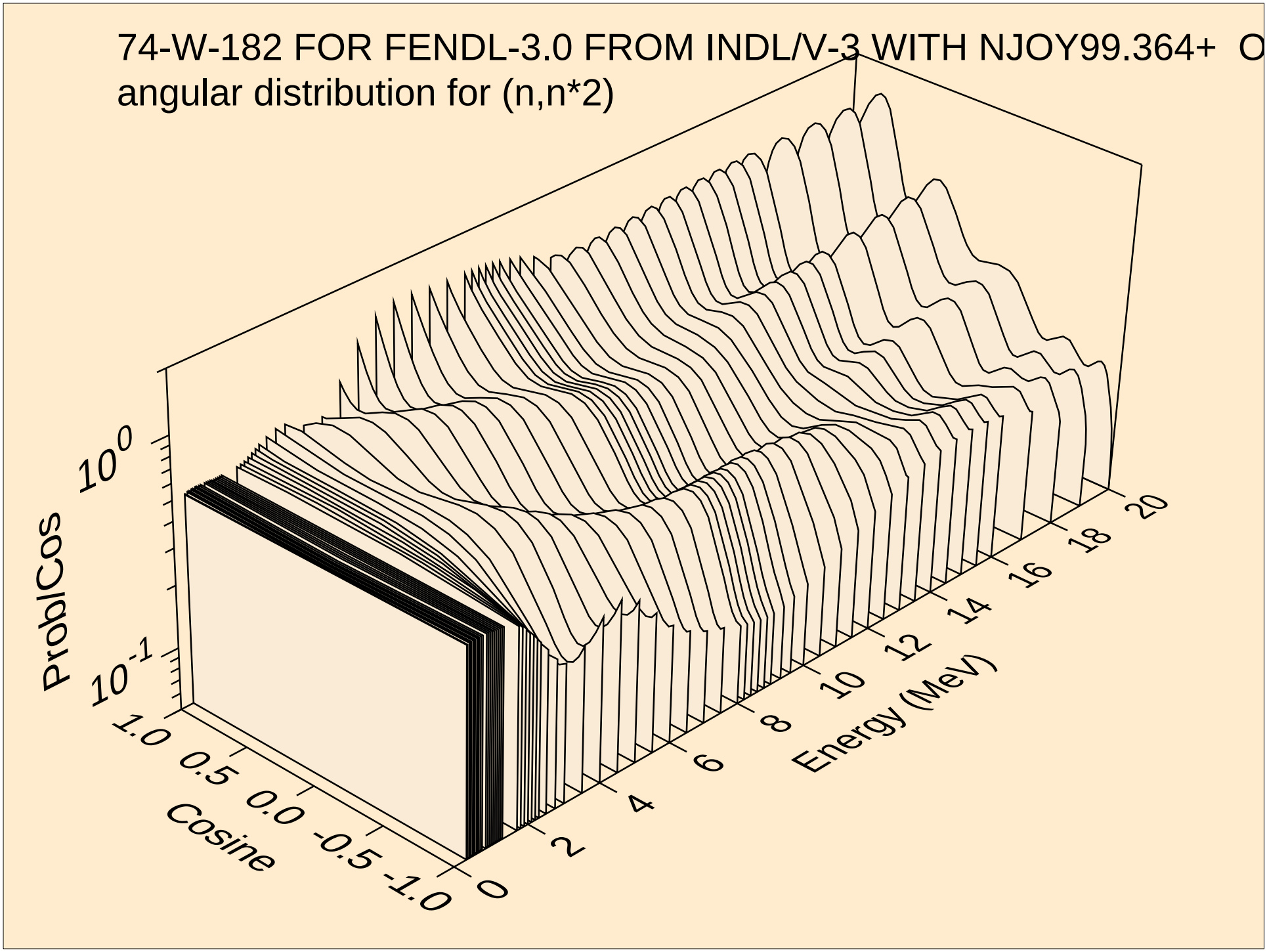

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Threshold reactions
*10-3
(n,a*5)
(n,a*6)
(n,a*c)
Cross section (barns)
Energy (MeV)
0
1
2
3
4
5
6
7
0
20
40
60
80
100
120
140
160

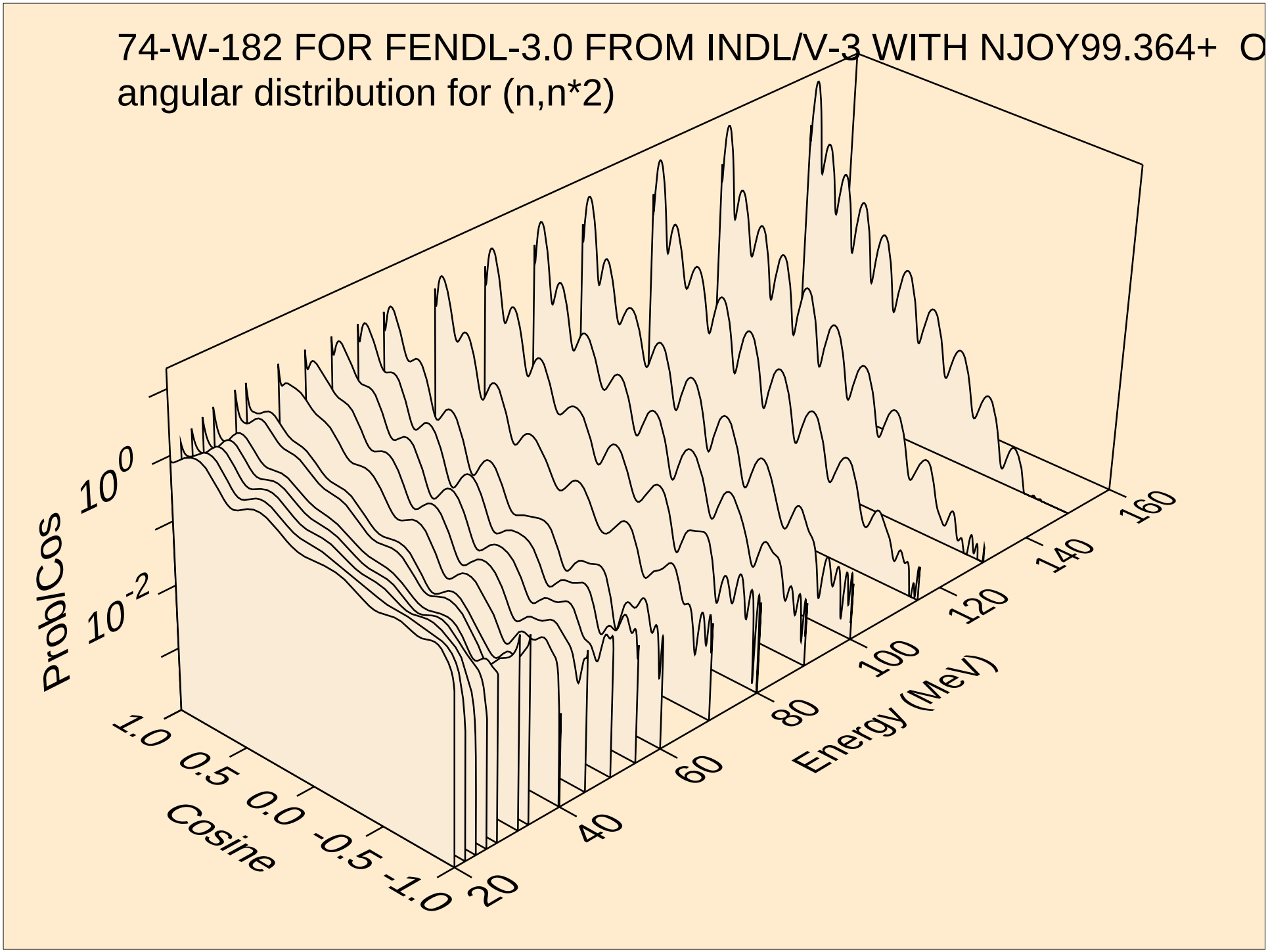

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for elastic
Prob\Cos
10^1
10^-1
10^-3
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

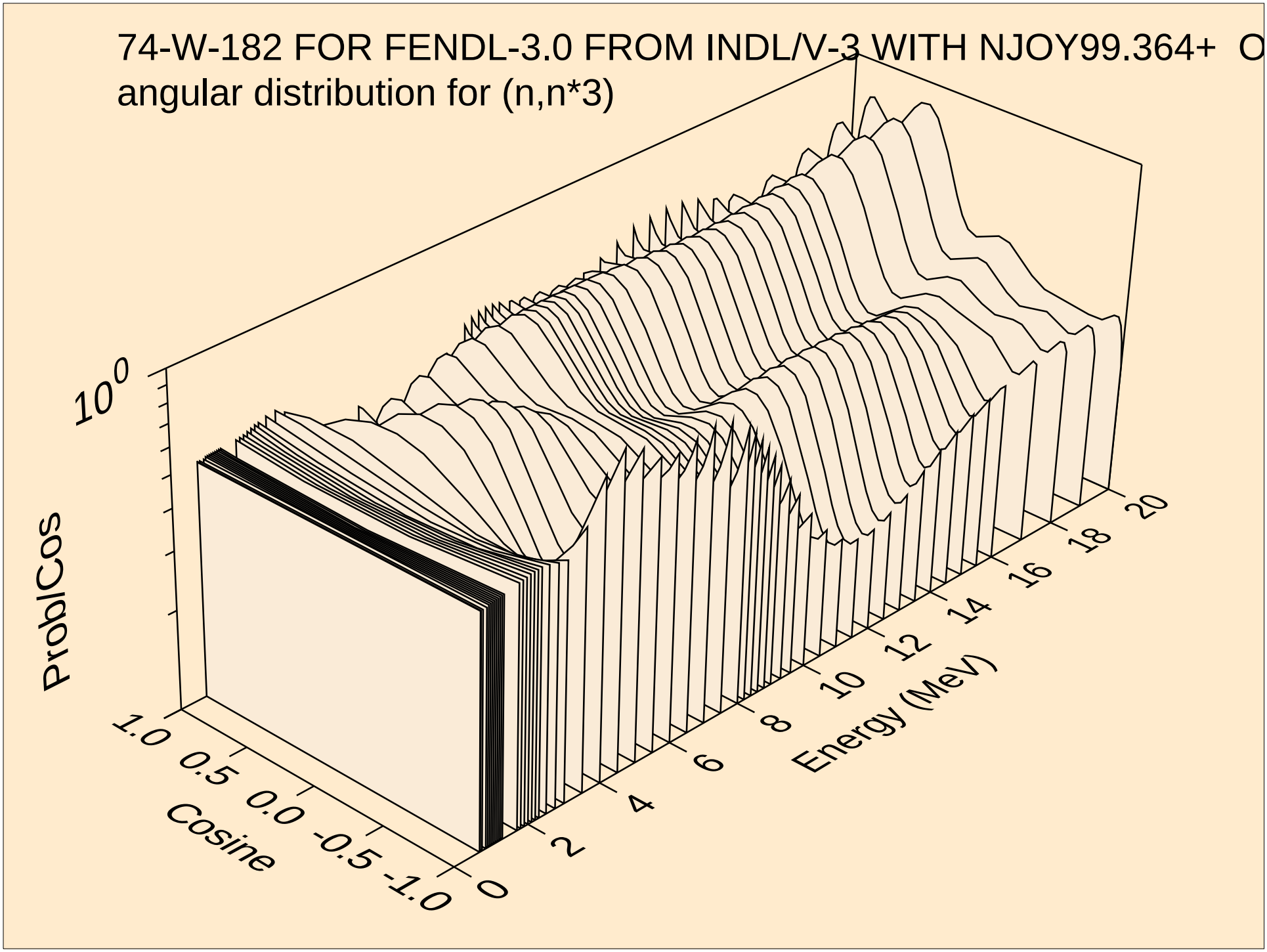

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

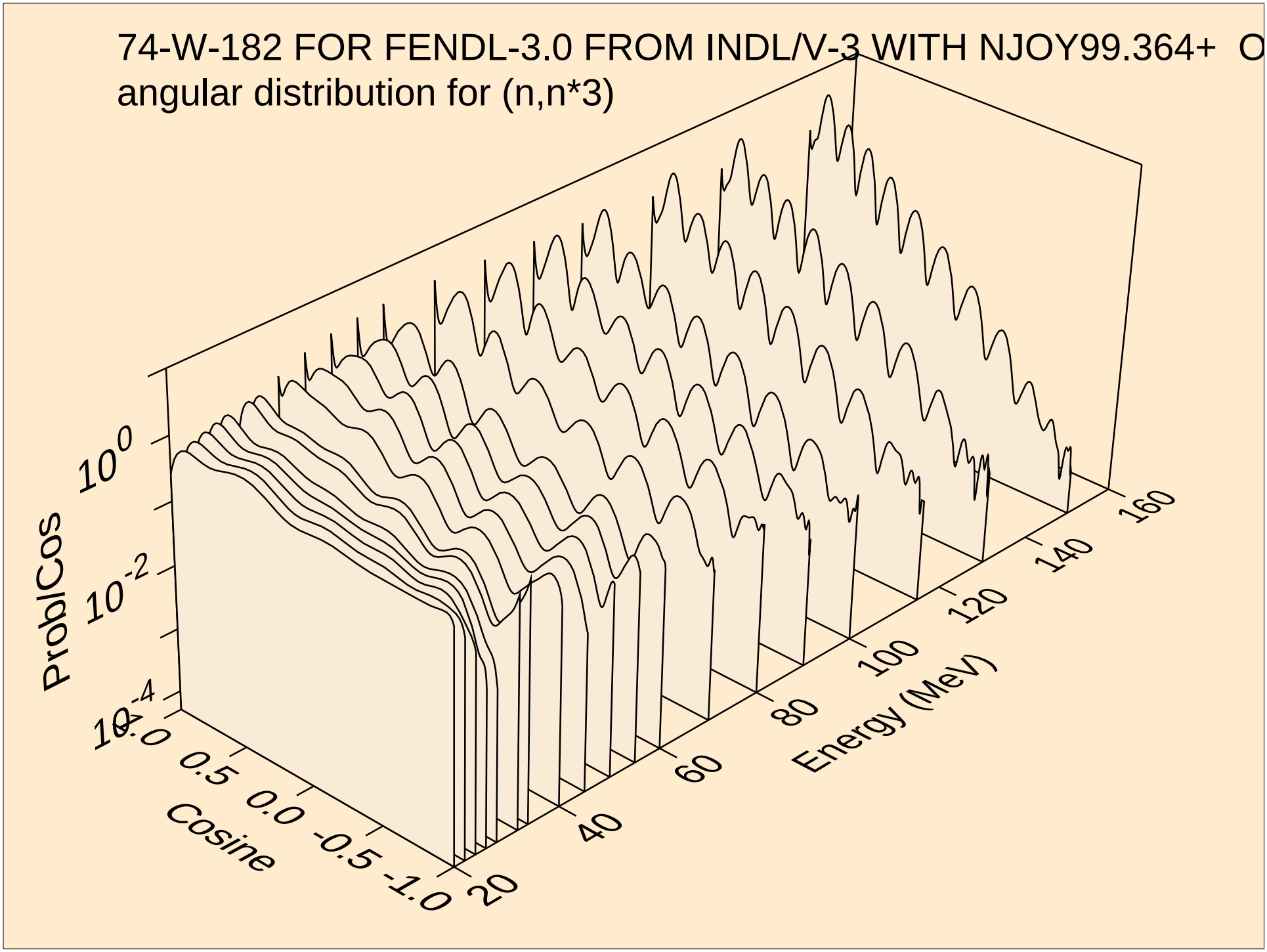

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*1)
ProblCos
10^{1}
10^{-1}
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
20

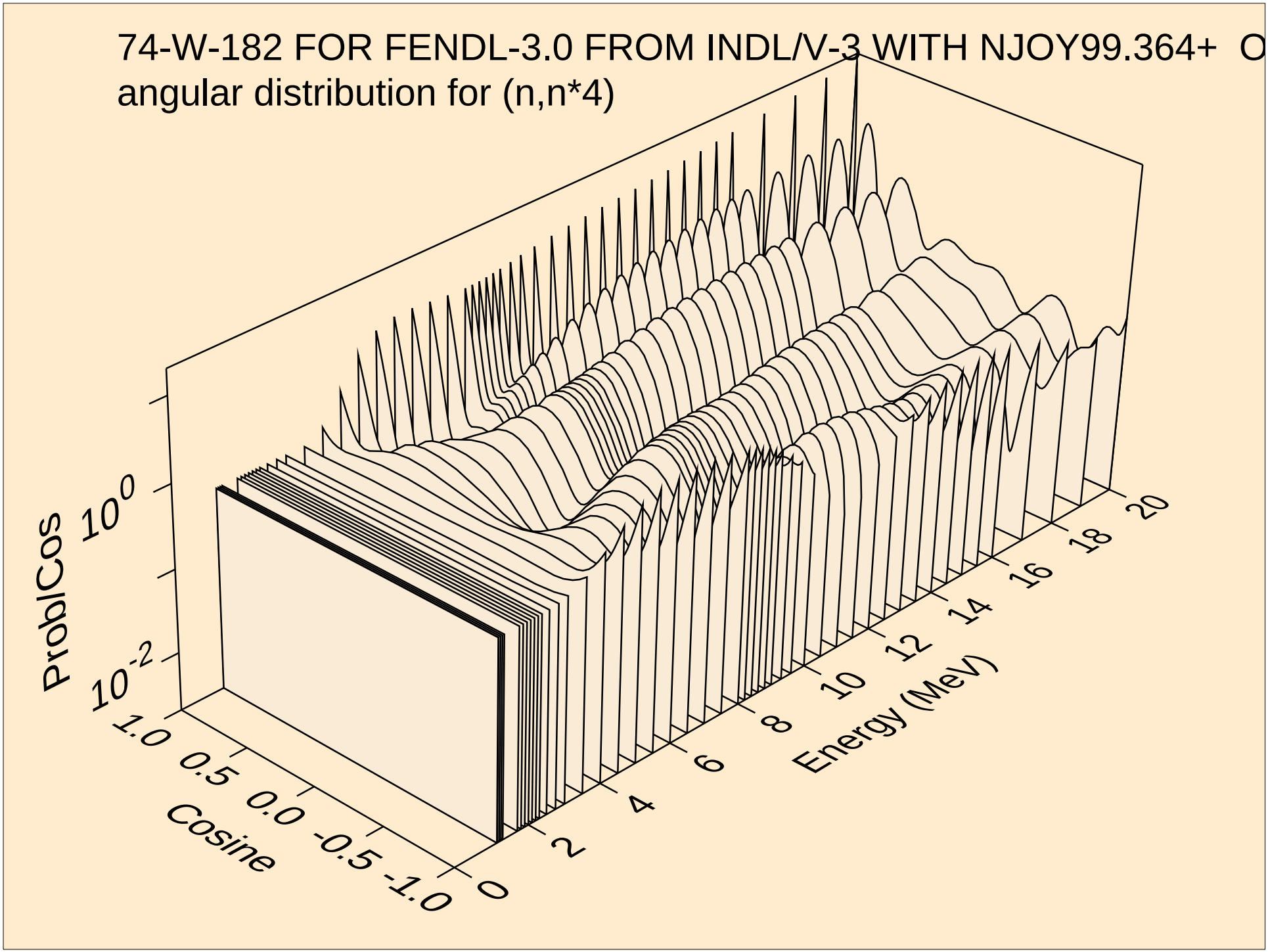

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*1)
ProbICos
10^1
10^-1
10^-3
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

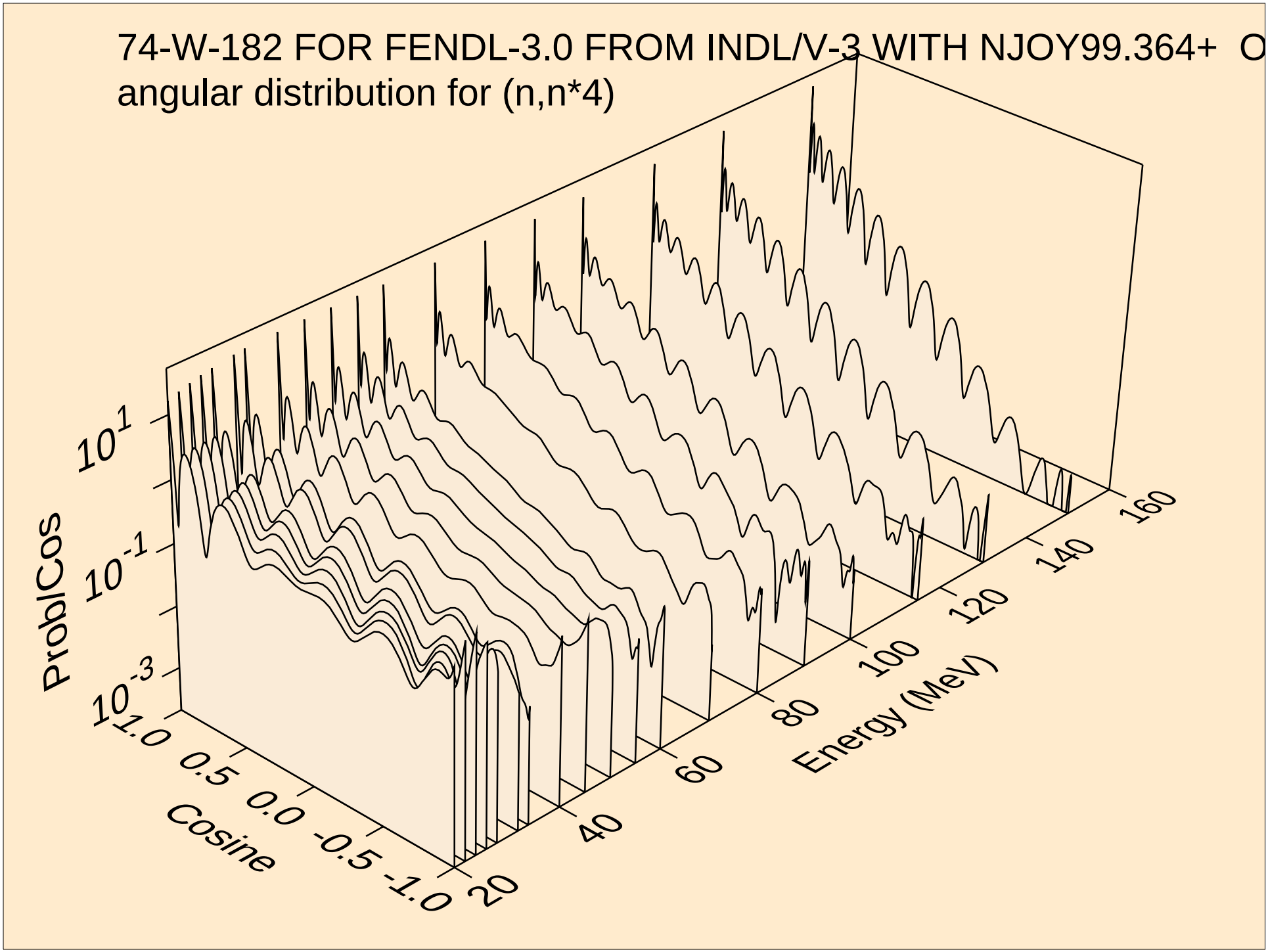

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*2)
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

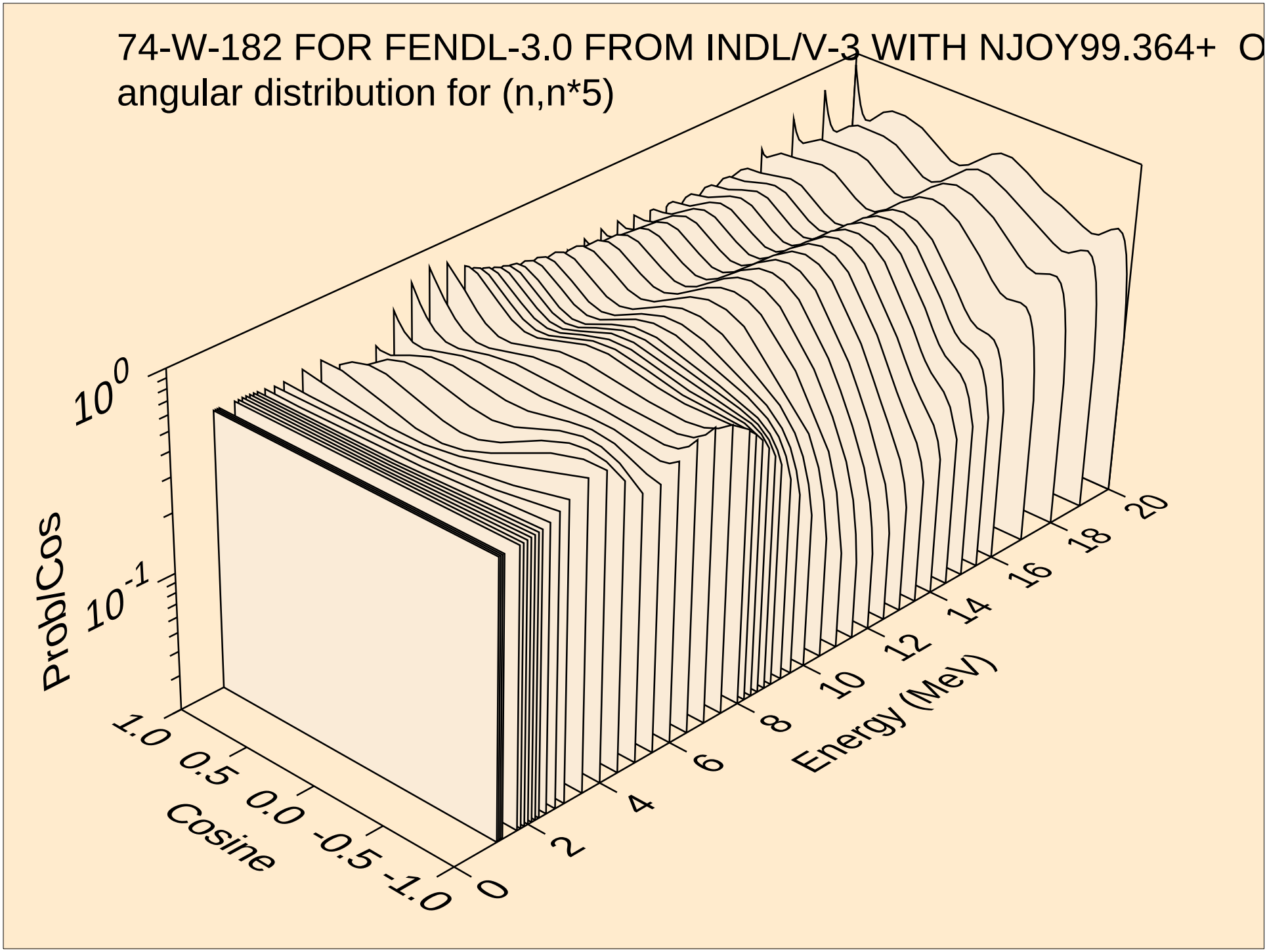

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*2)
ProbICos
10^0
10^-2
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

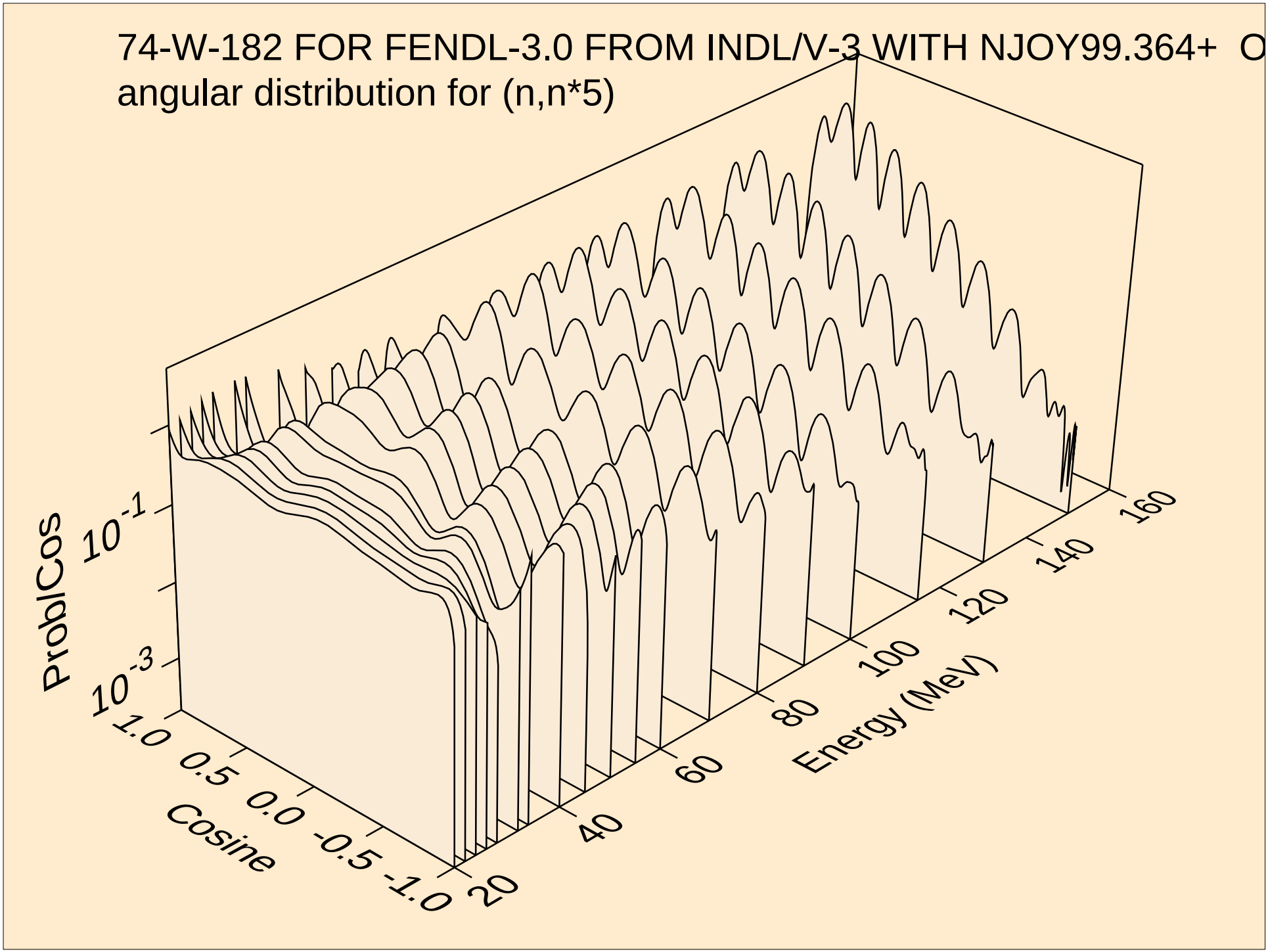

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*3)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

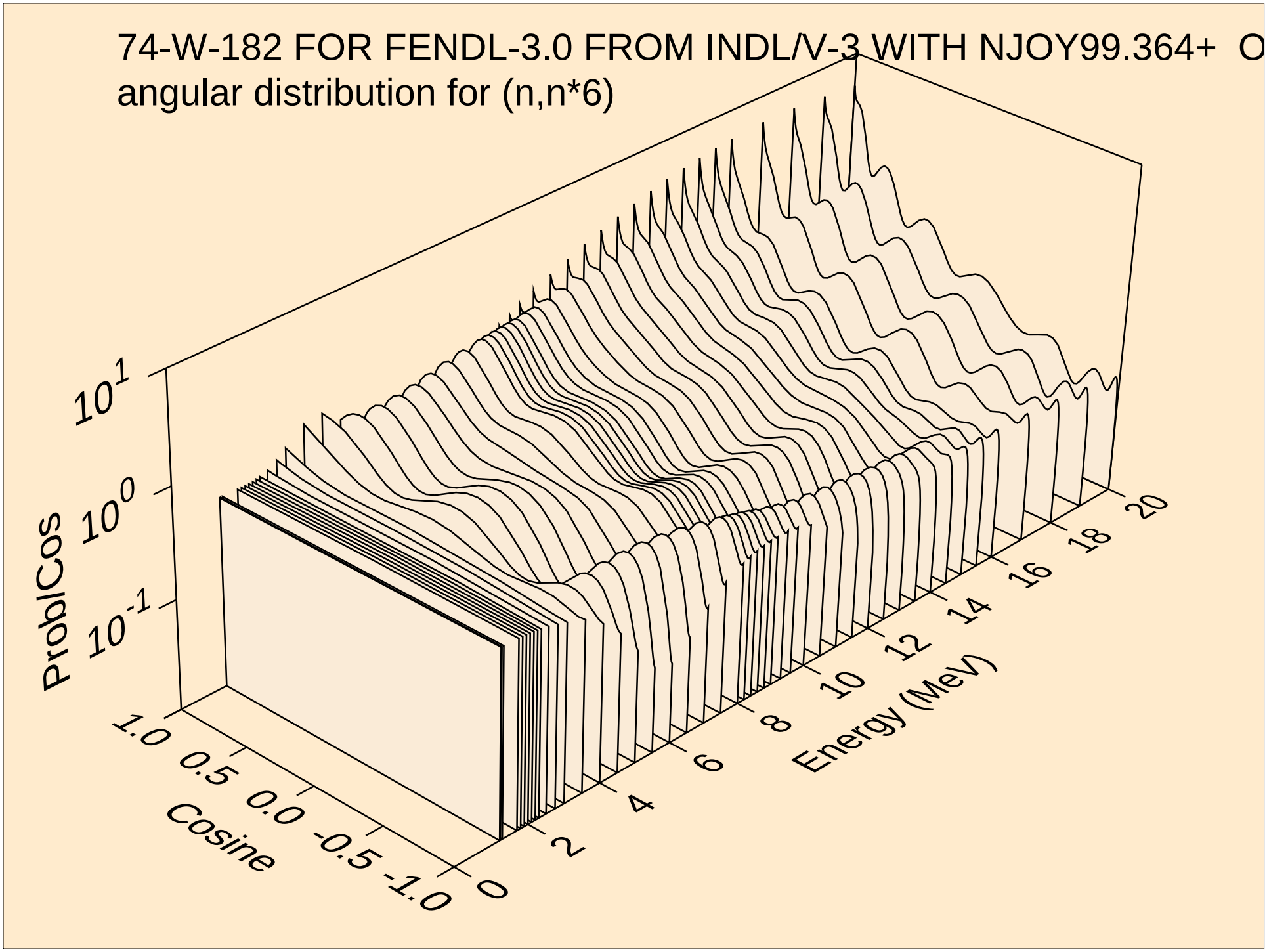

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*3)
Prob\Cos
10^0
10^-2
10^-4
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

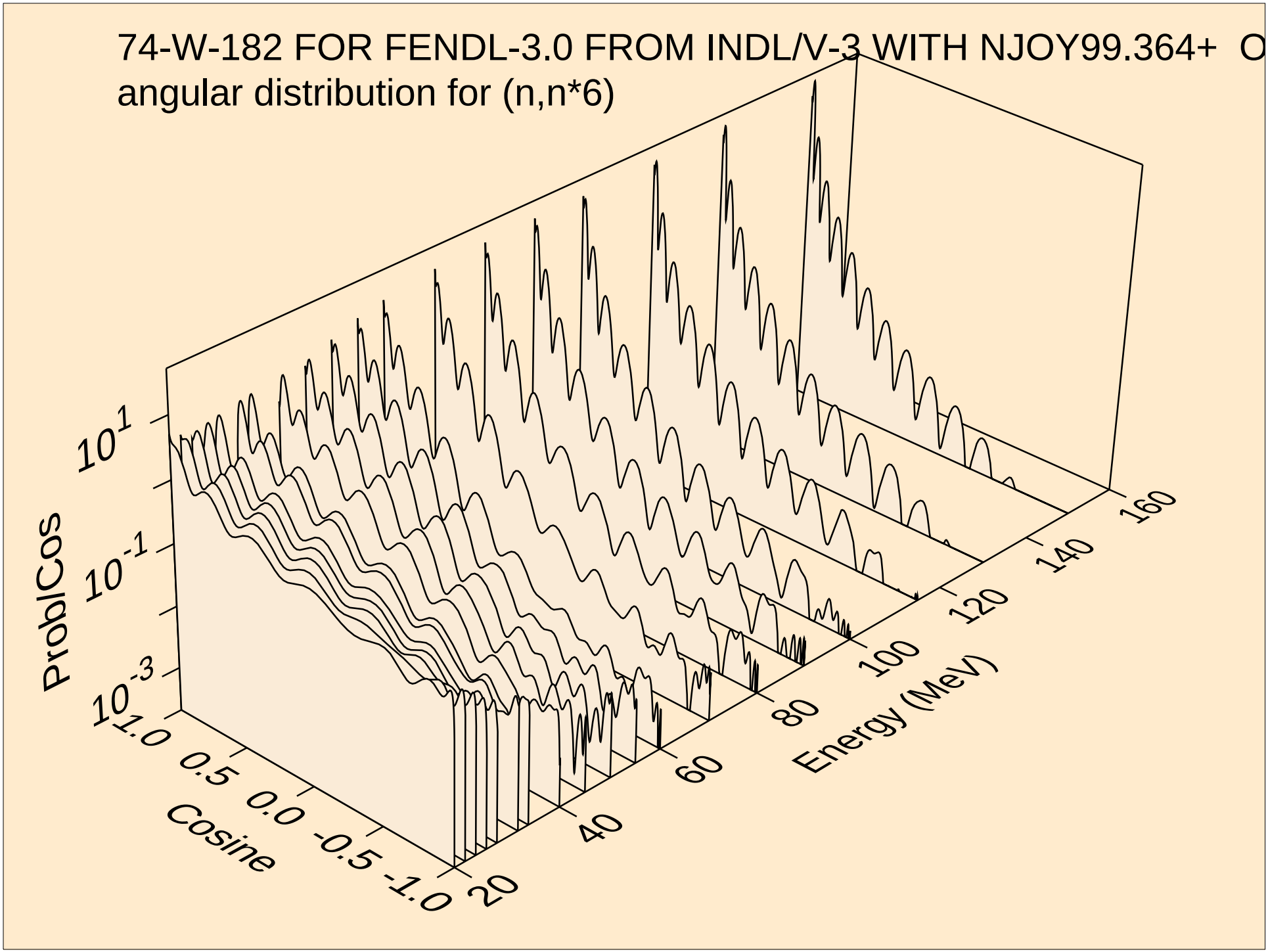

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*4)
Prob\Cos
10^0
10^-2
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

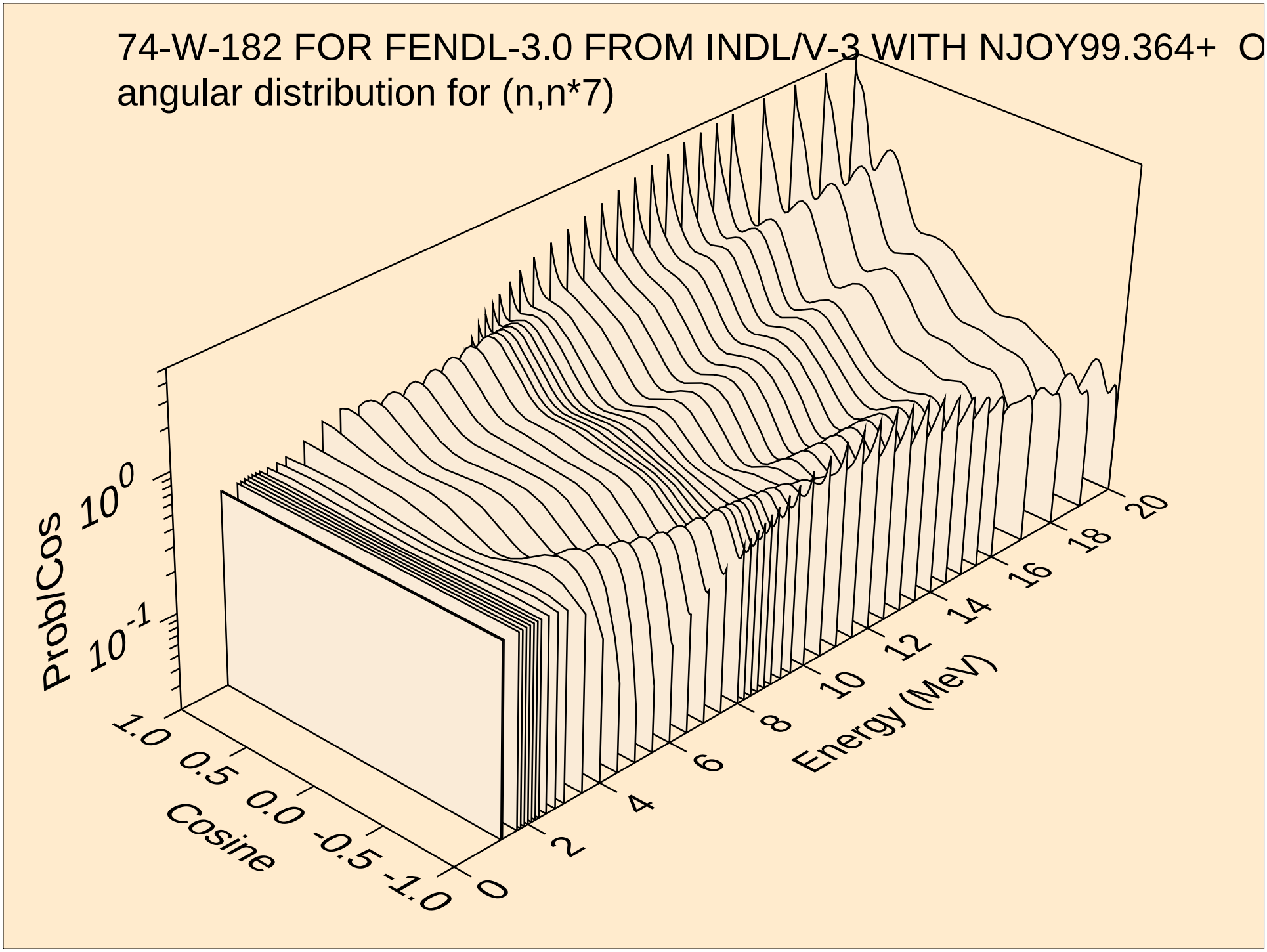

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*4)
ProbICos
10^1
10^-1
10^-3
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

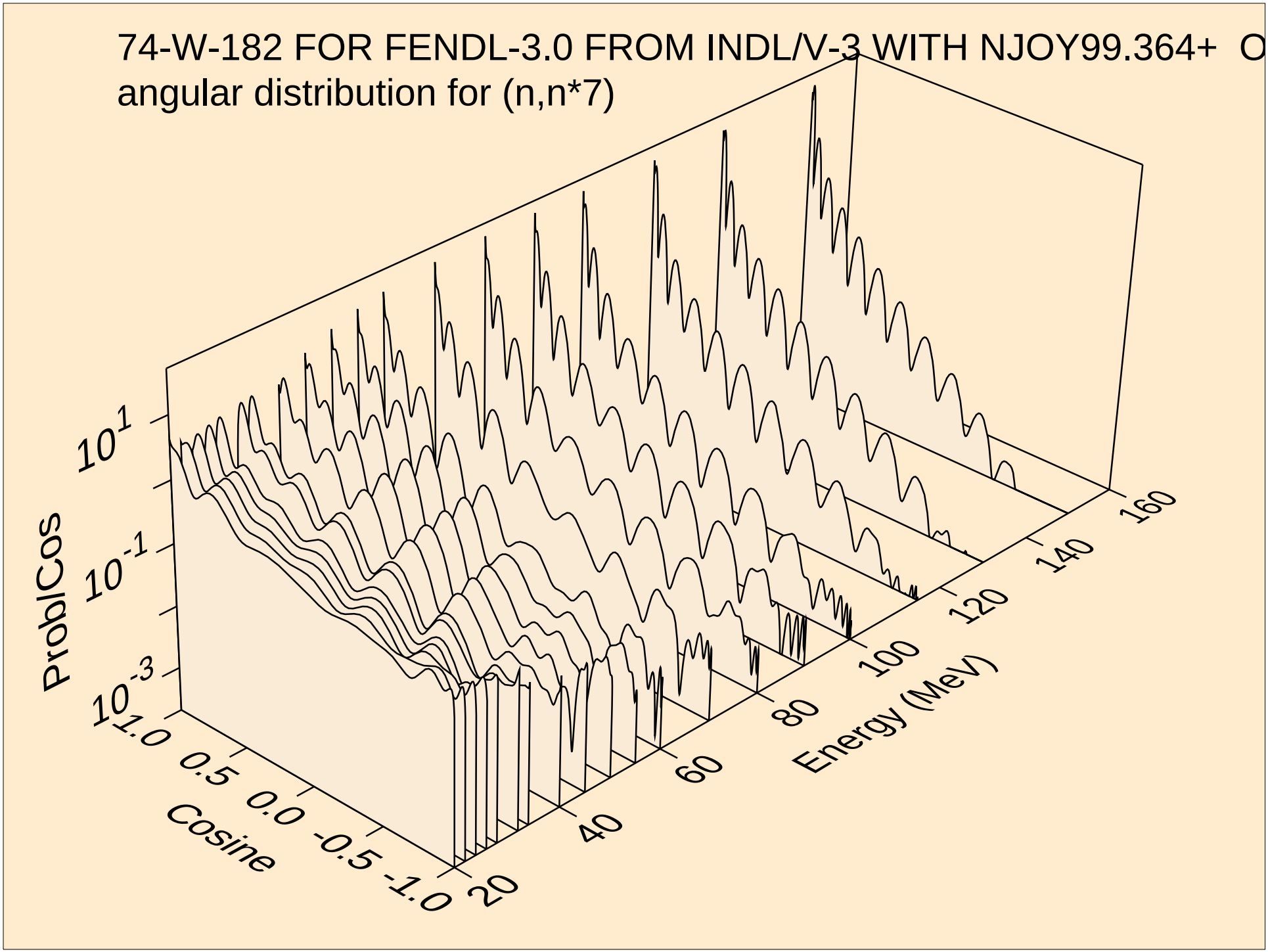

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*5)
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

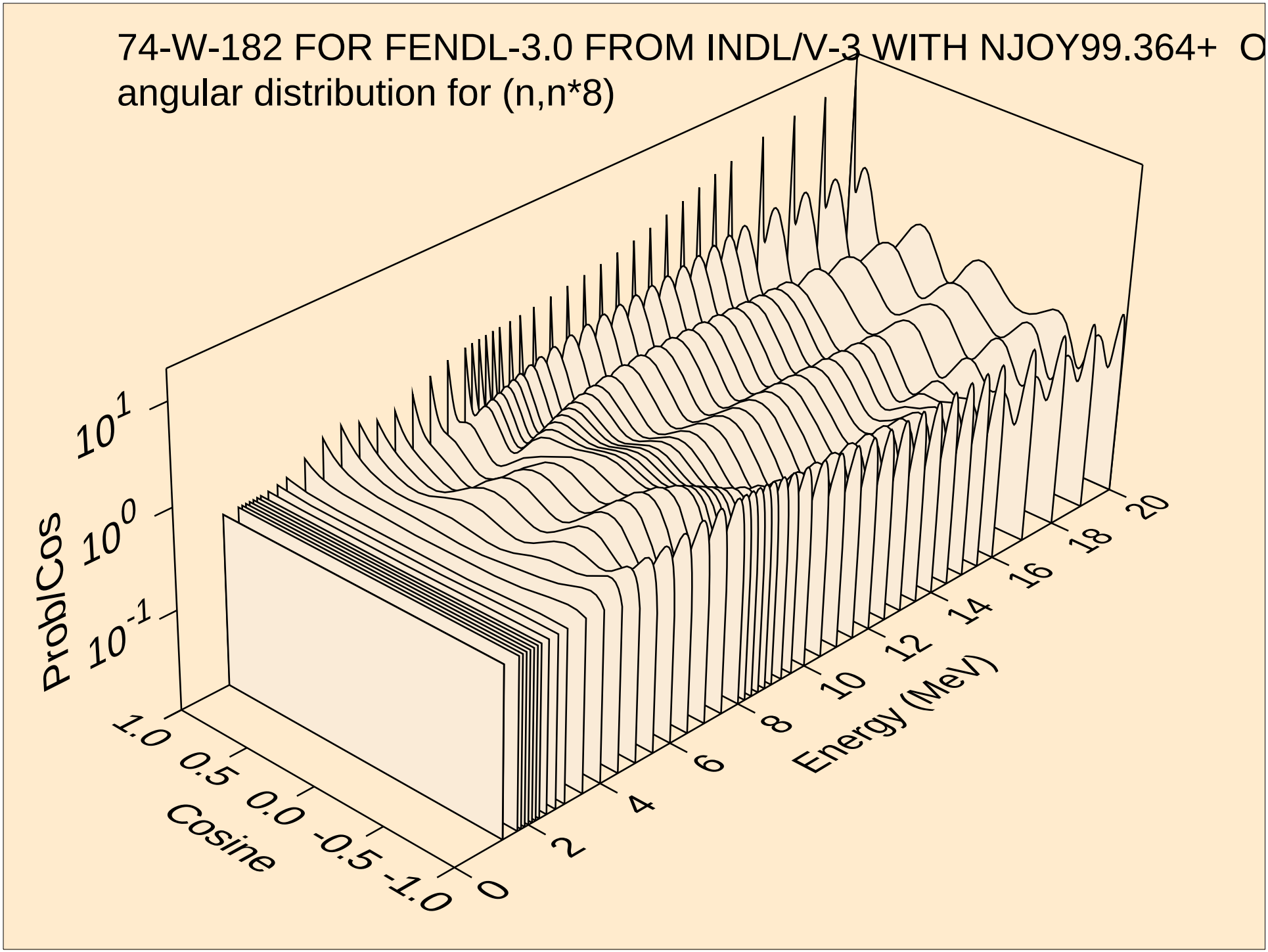

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*5)
Prob\Cos
10-1
10-3
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

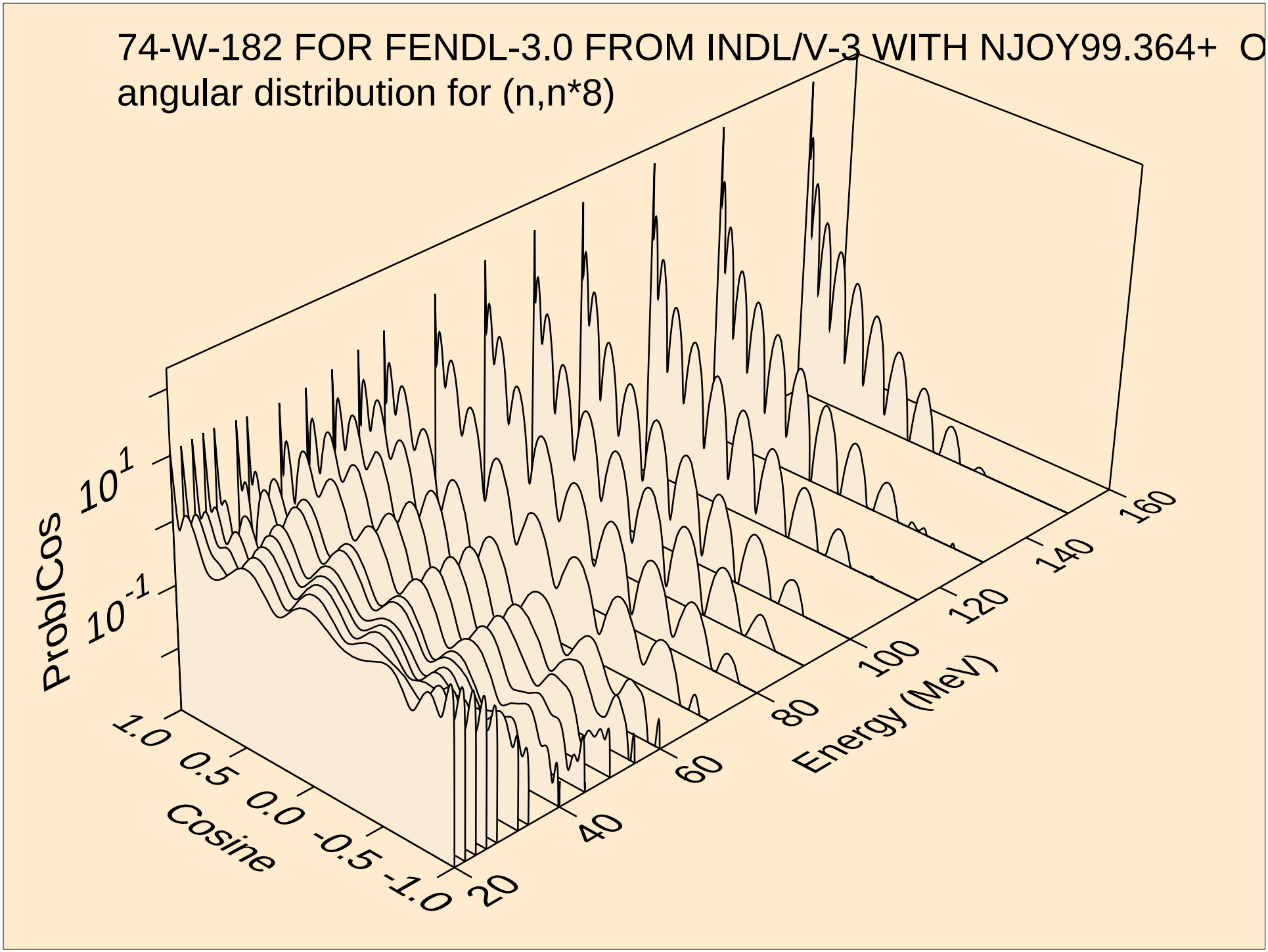

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*6)
ProbICos
10^1
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

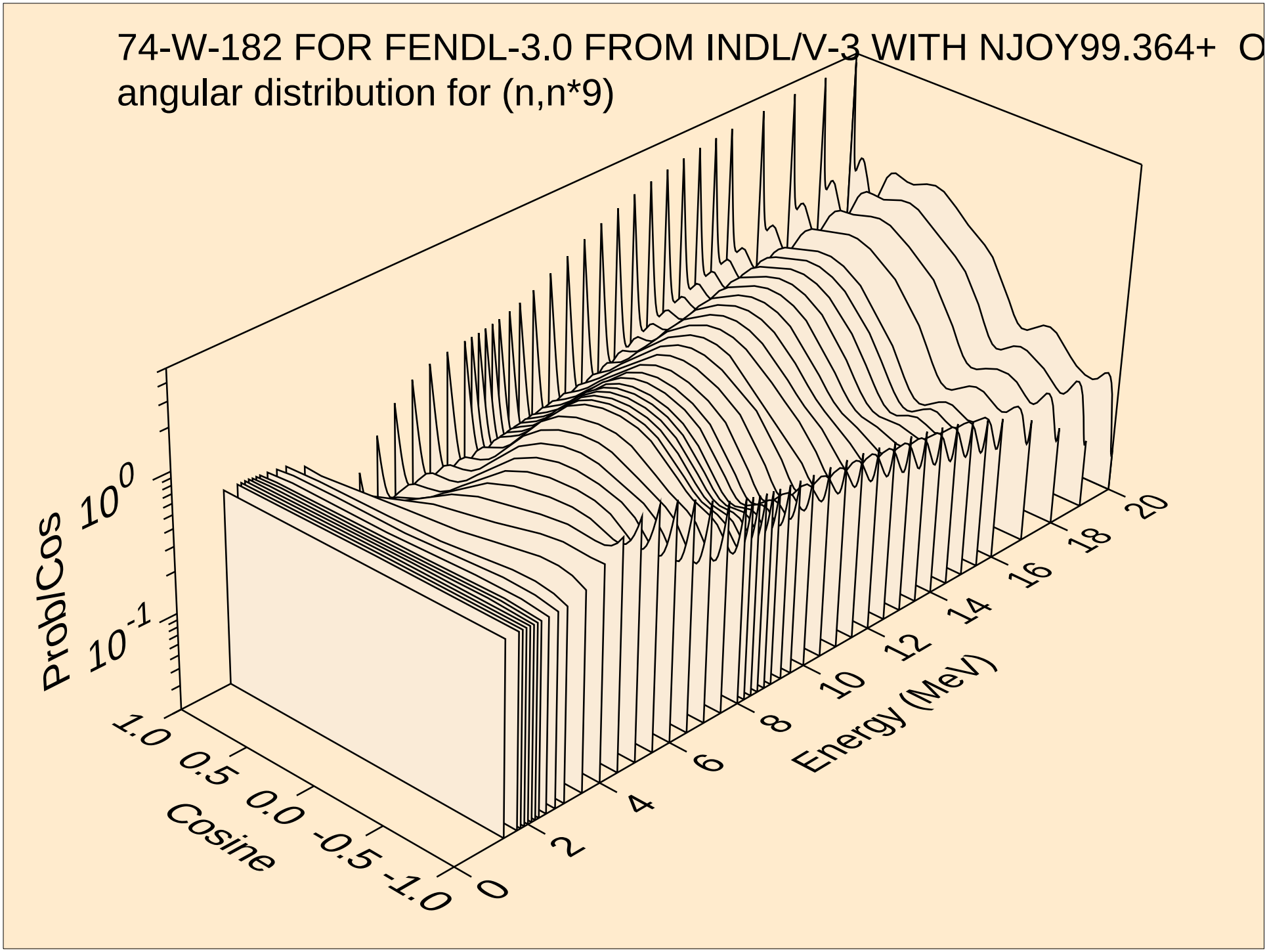

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*6)
ProblCos
10^{1}
10^{-1}
10^{-3}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

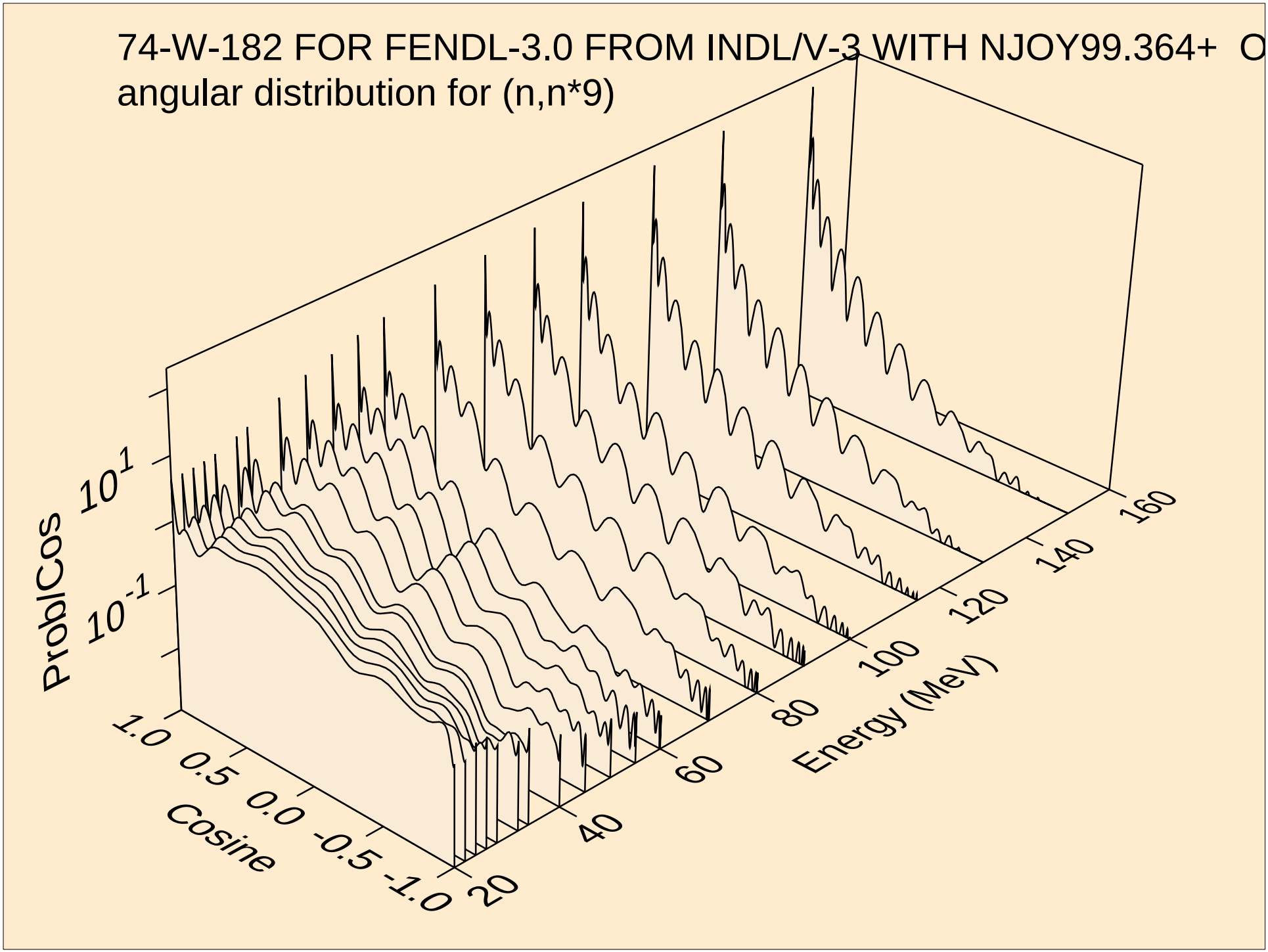

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*7)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

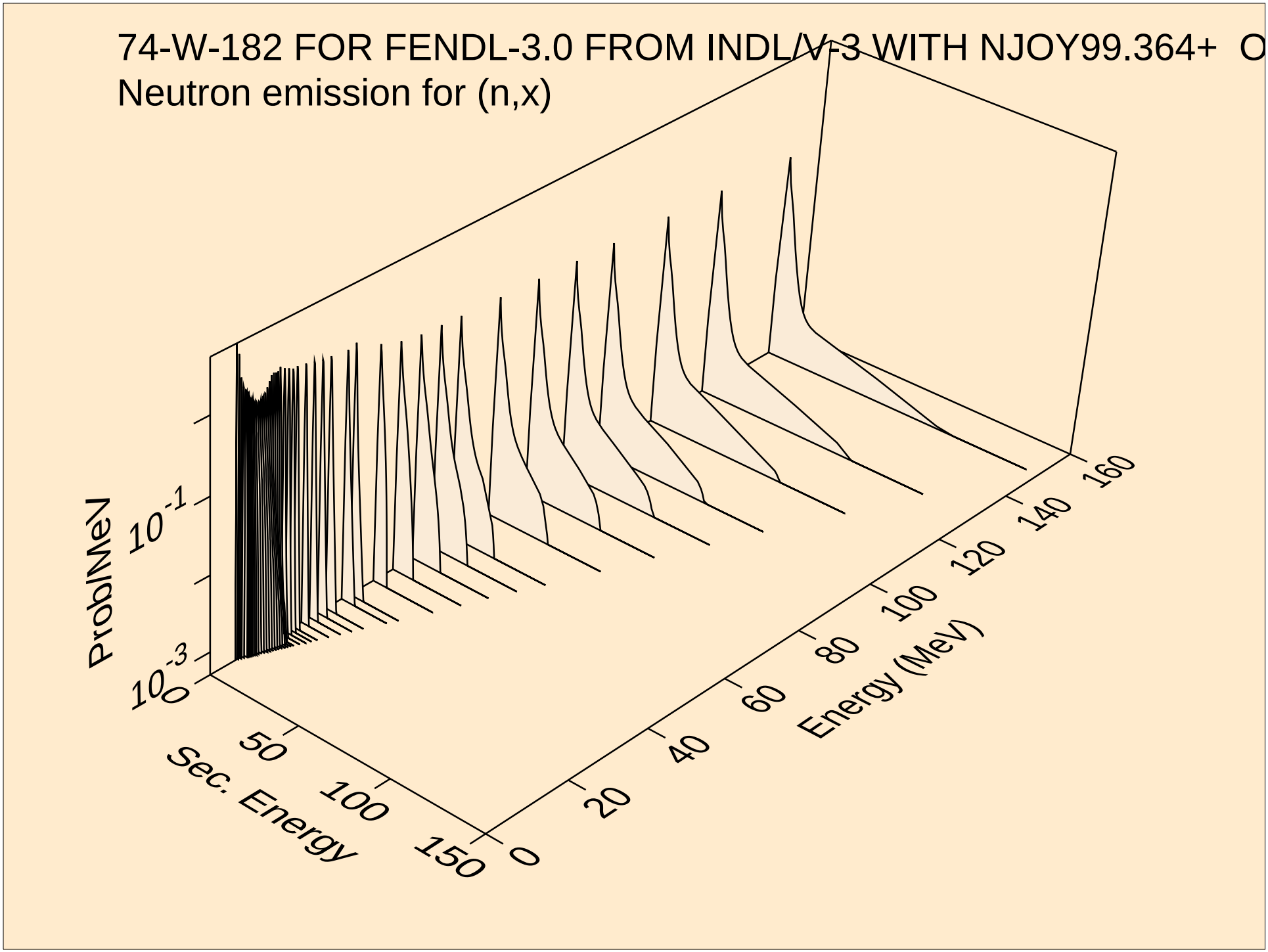

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*7)
ProbICos
10^1
10^-1
10^-3
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

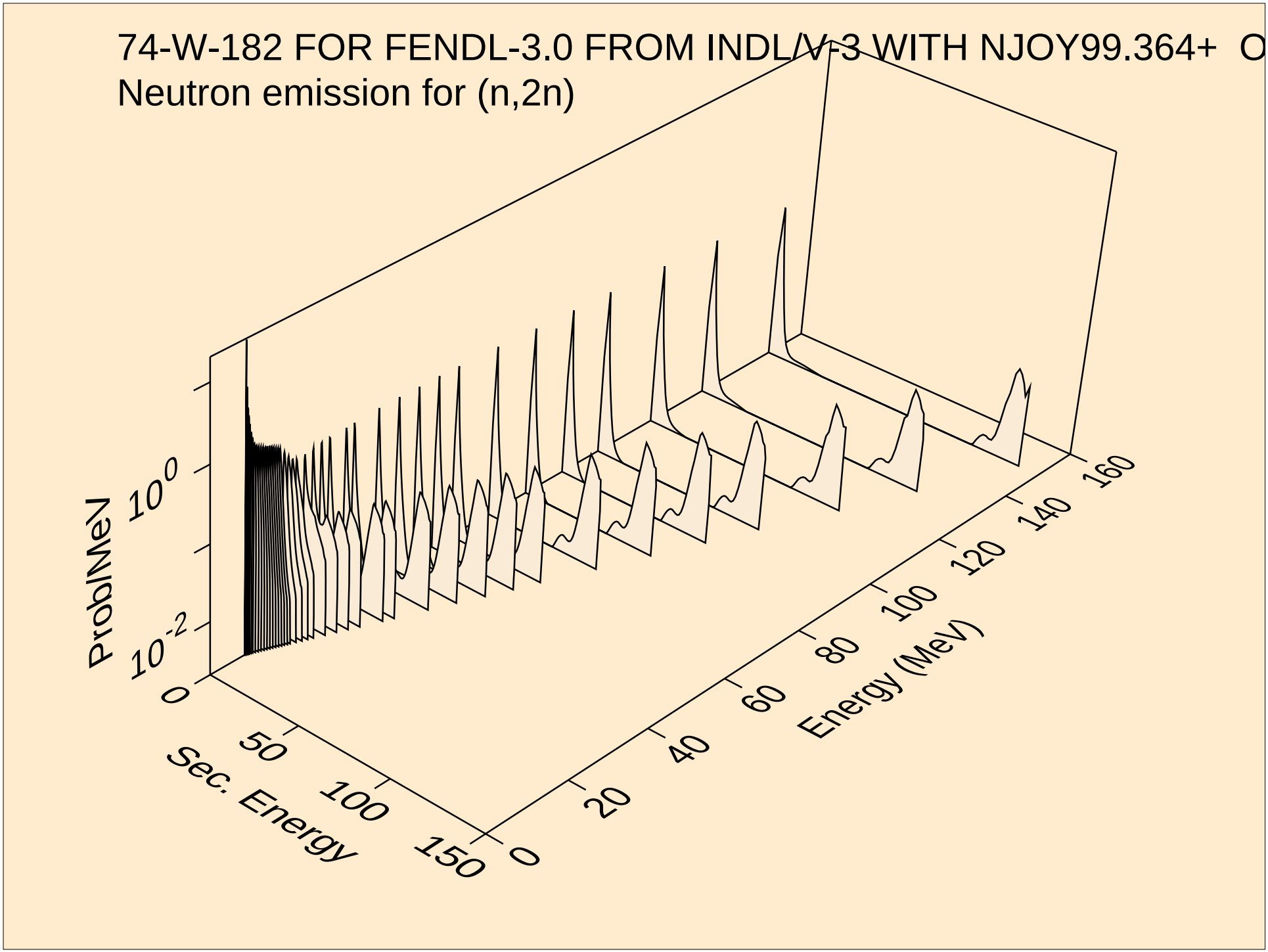

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*8)
Prob\Cos
10^1
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

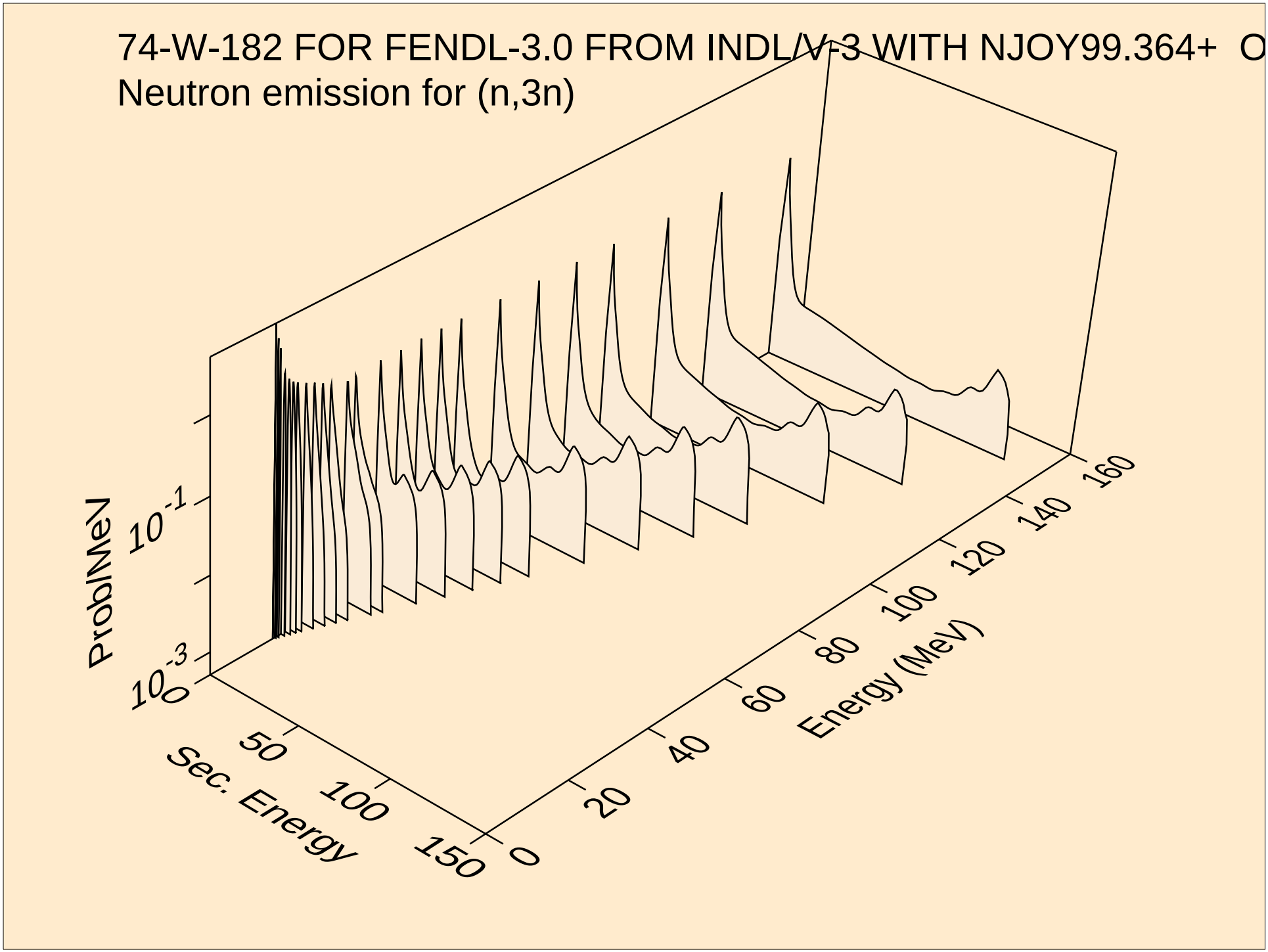

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*8)
Prob\Cos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

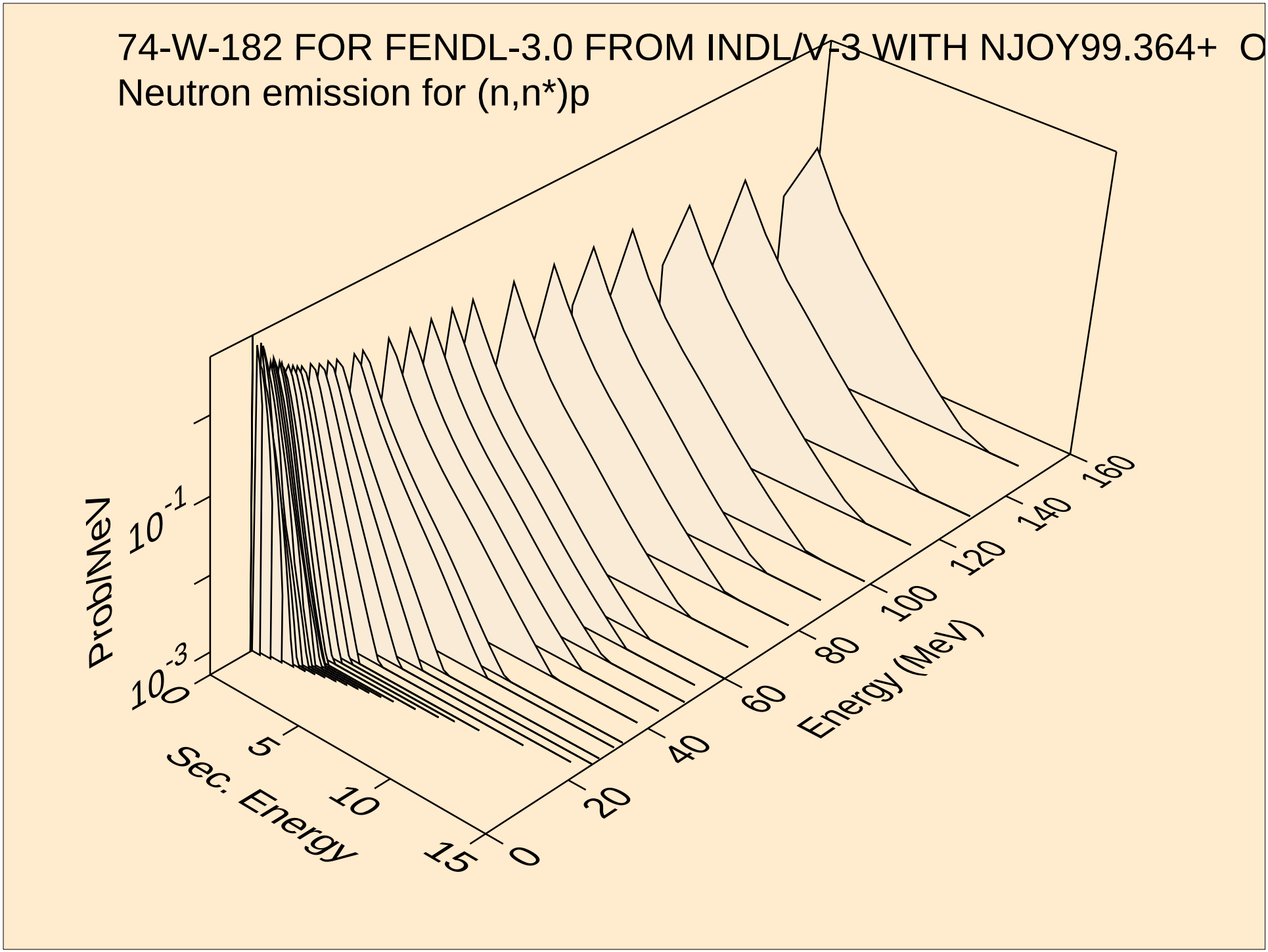

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*9)
Prob\Cos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

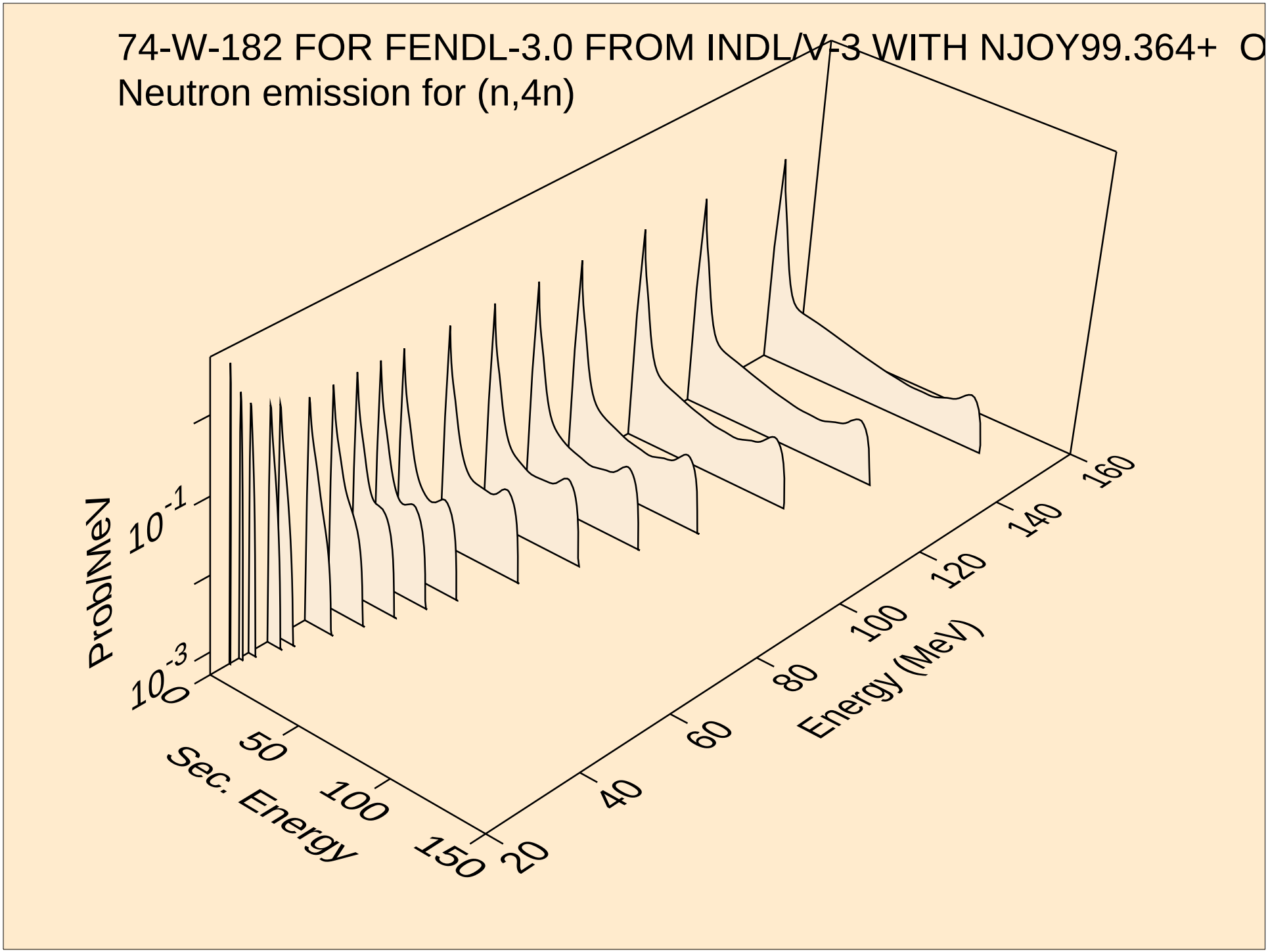

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,n*9)
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

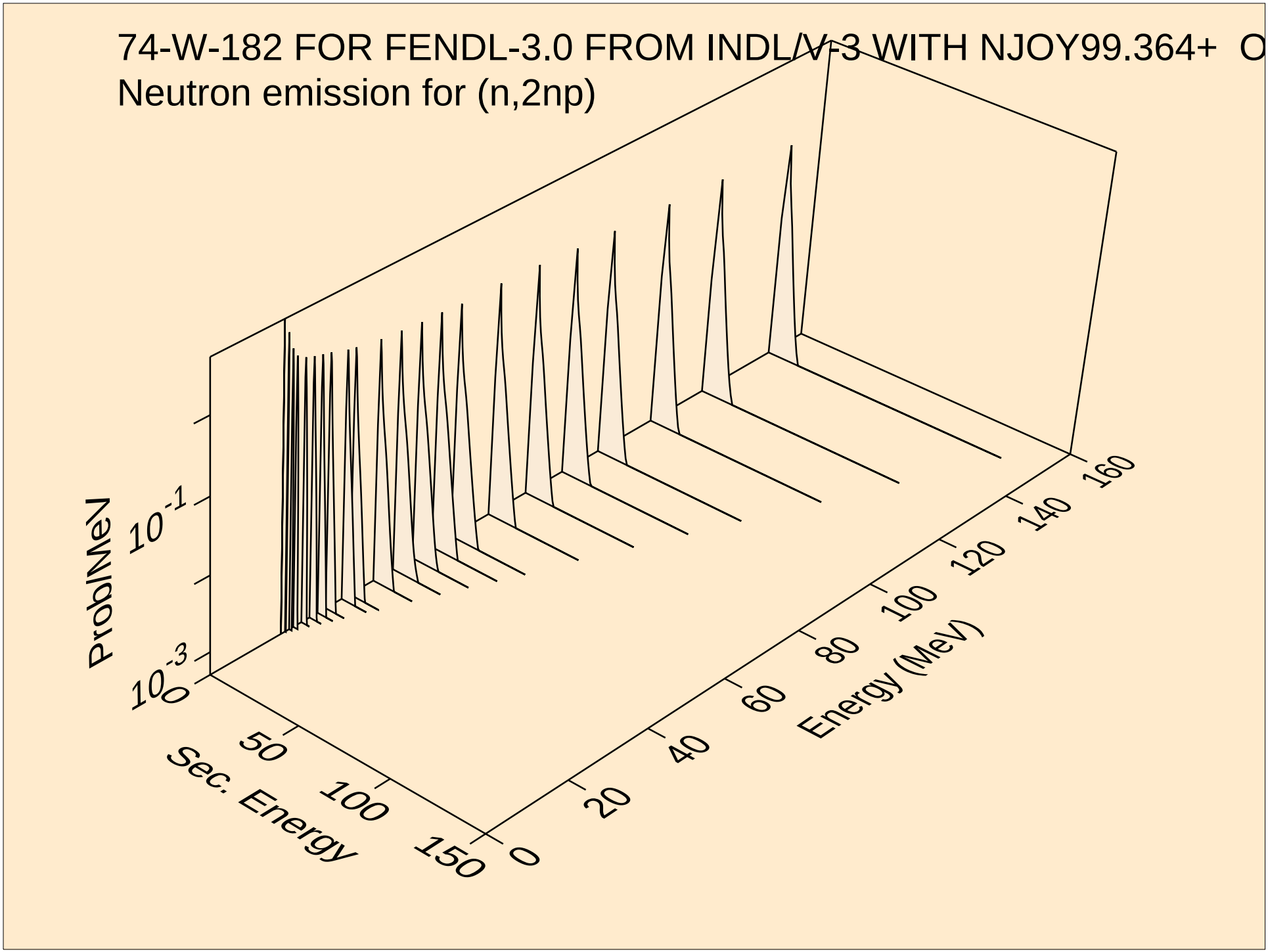

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Neutron emission for (n,x)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

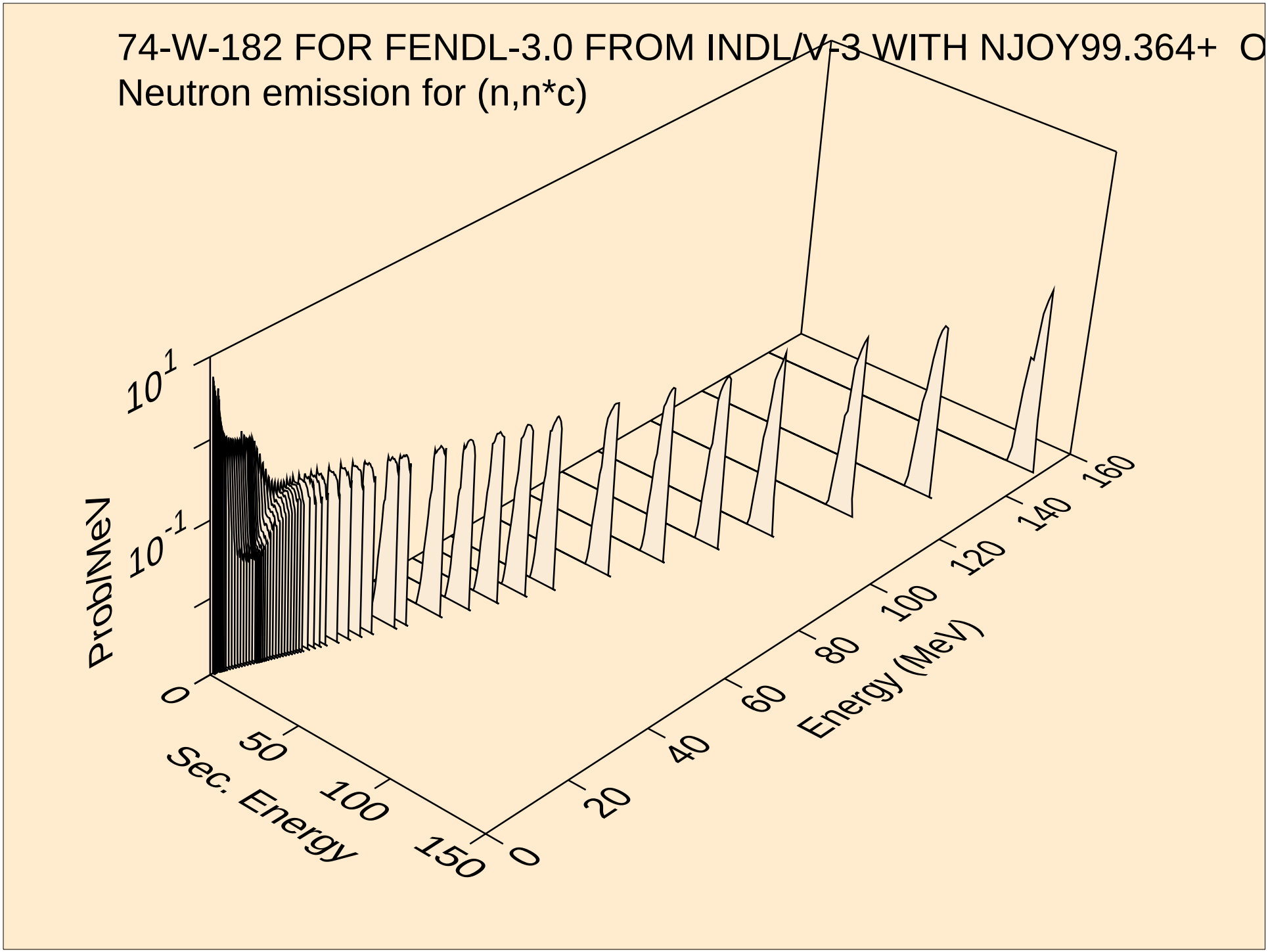

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Neutron emission for (n,2n)
Prob/MeV
10^0
10^-2
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

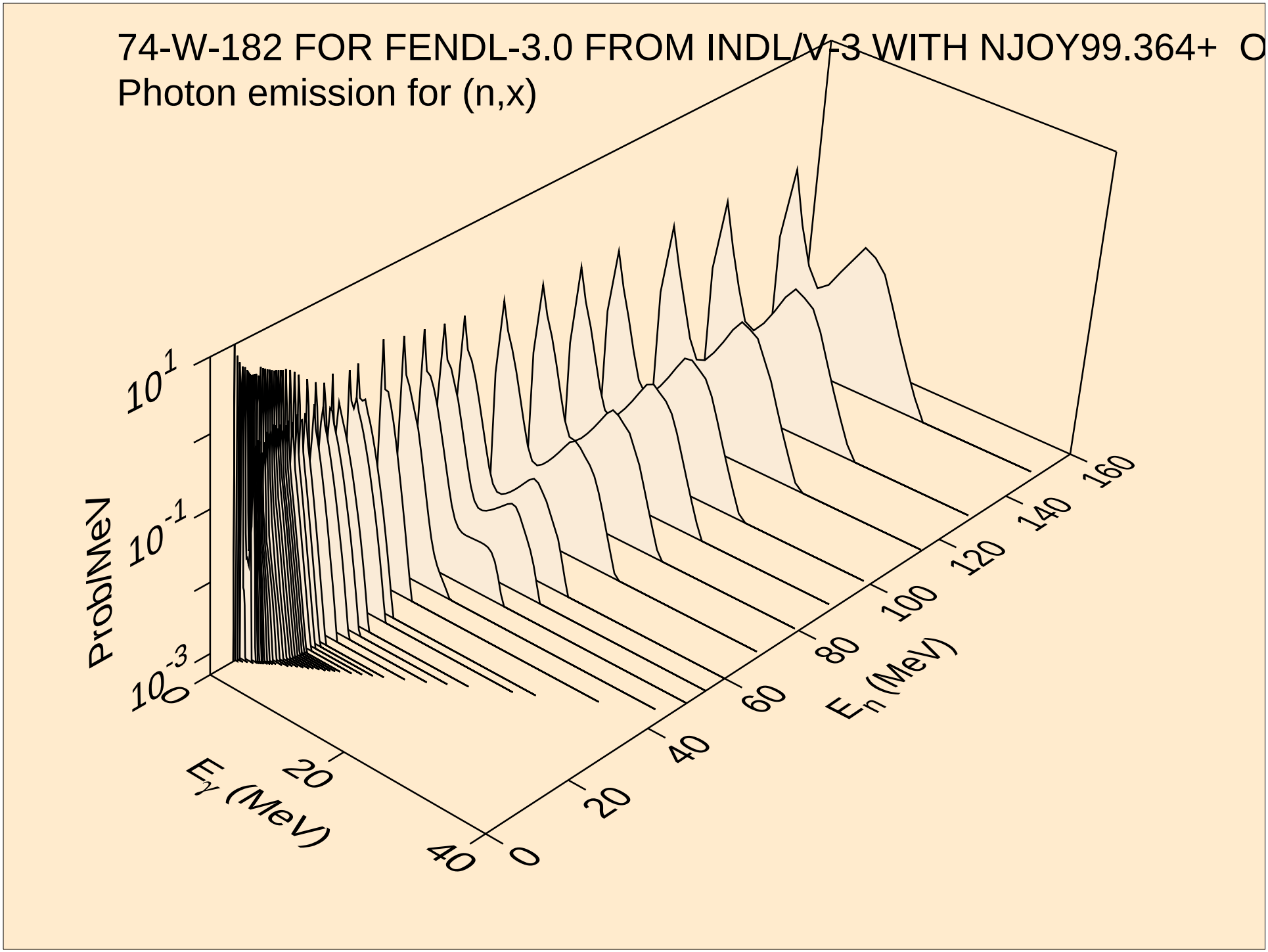

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Neutron emission for (n,3n)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

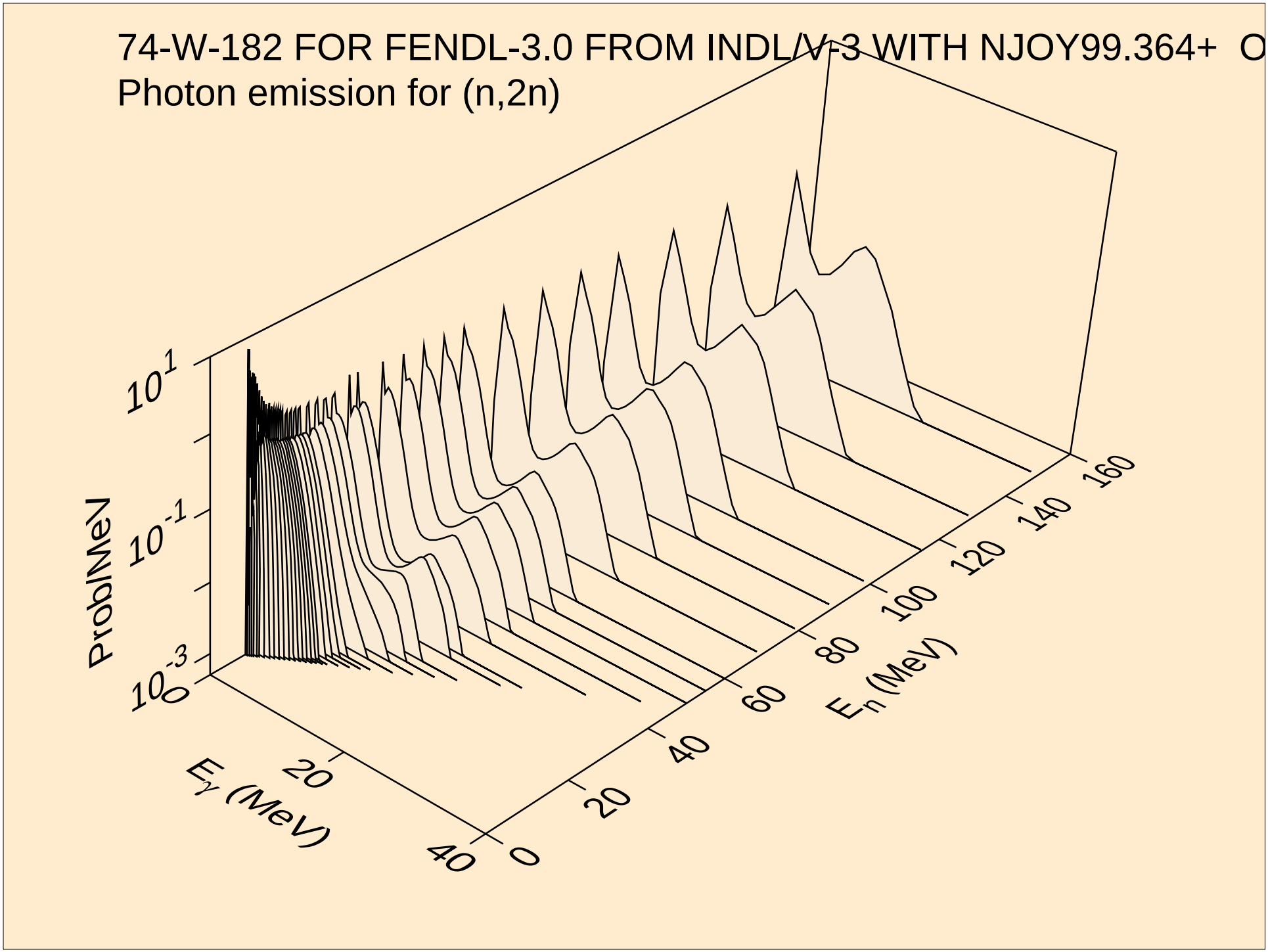

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Neutron emission for (n,n*)p
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

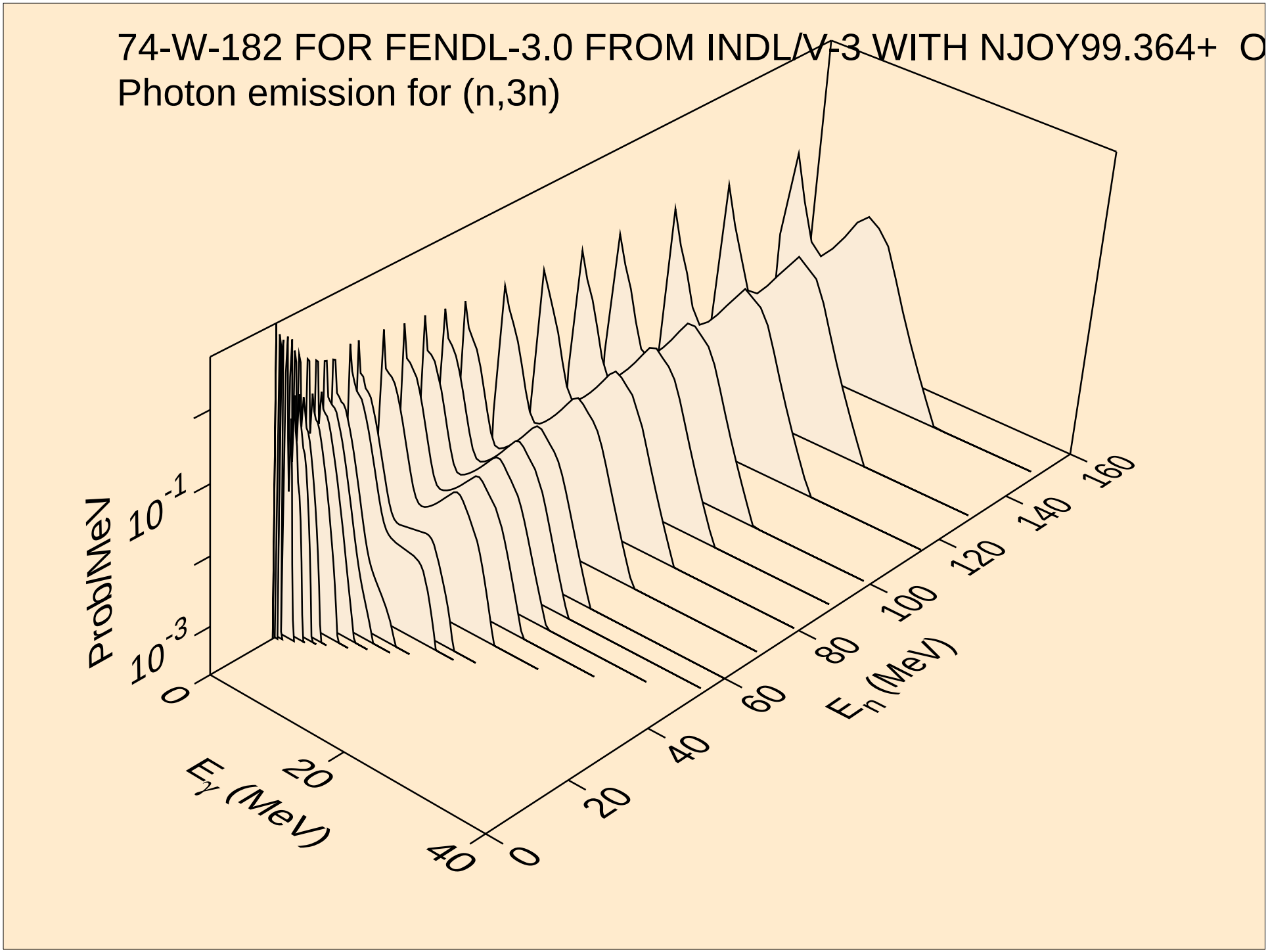

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Neutron emission for (n,4n)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
20
40
60
80
100
120
140
160
Energy (MeV)

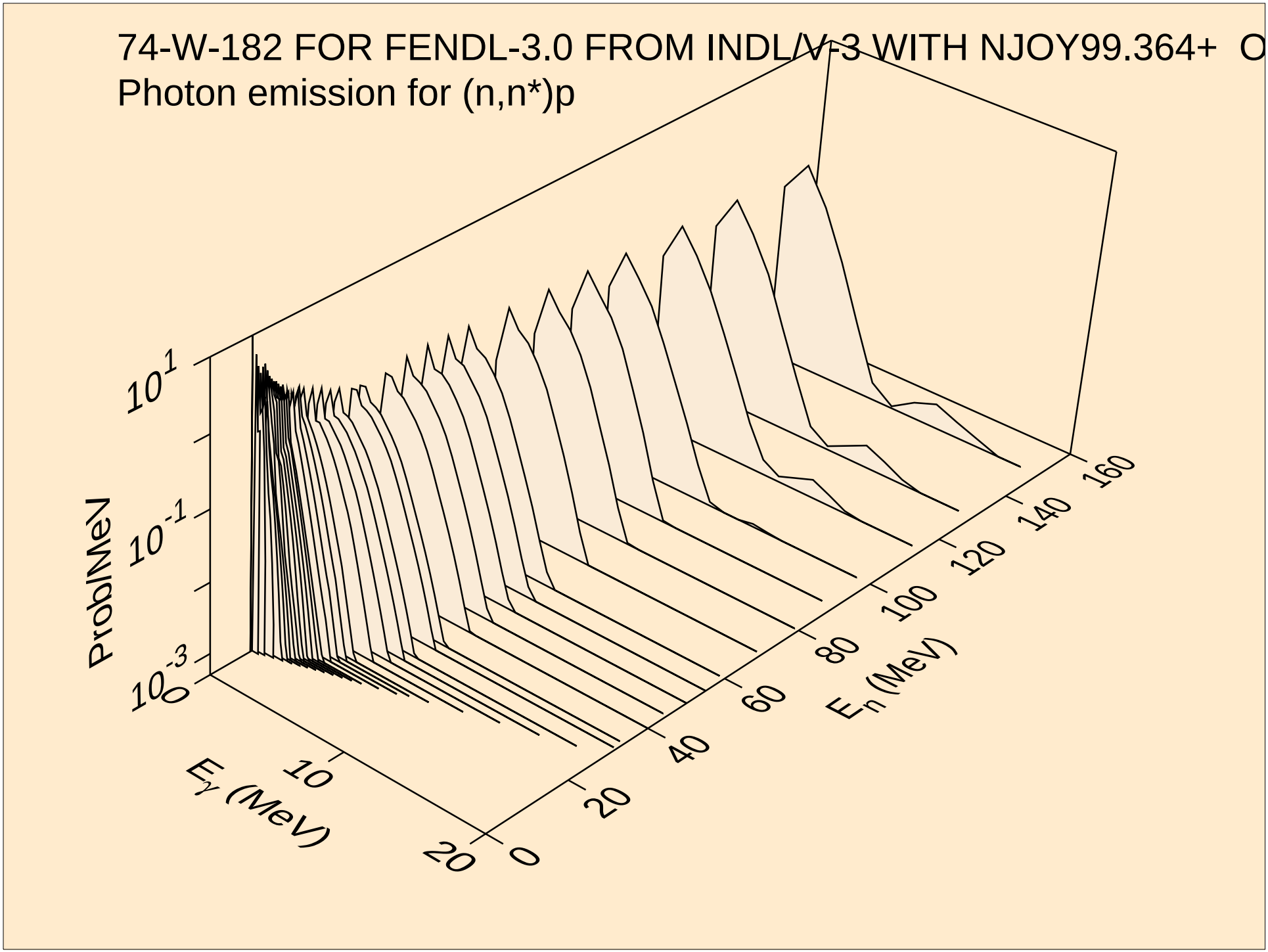

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Neutron emission for (n,2np)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

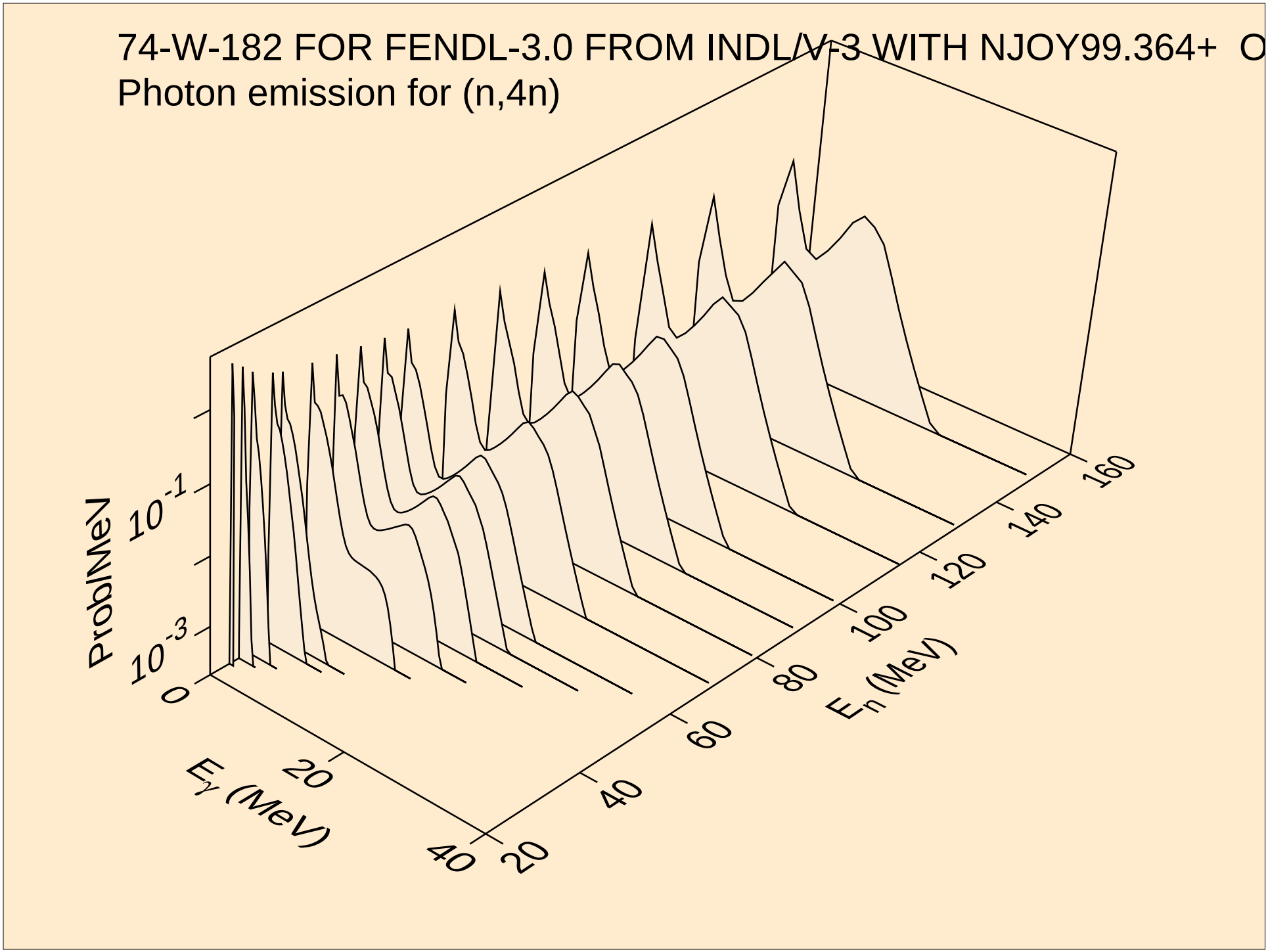

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Neutron emission for (n,n*c)
Prob/MeV
10^{1}
10^{-1}
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

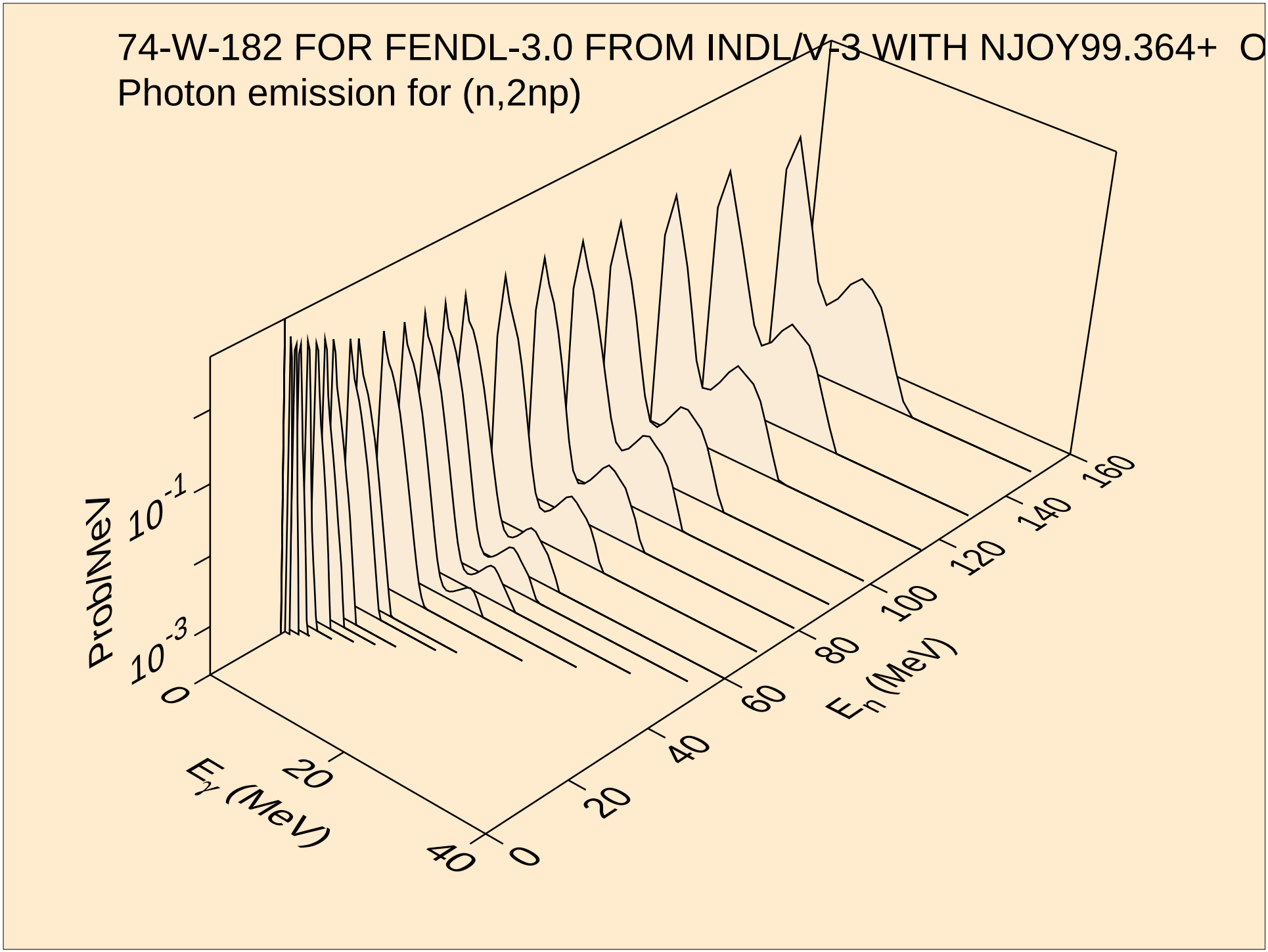

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Photon emission for (n,x)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
20
40
E_γ (MeV)
0
20
40
60
80
100
120
140
160
E_n (MeV)

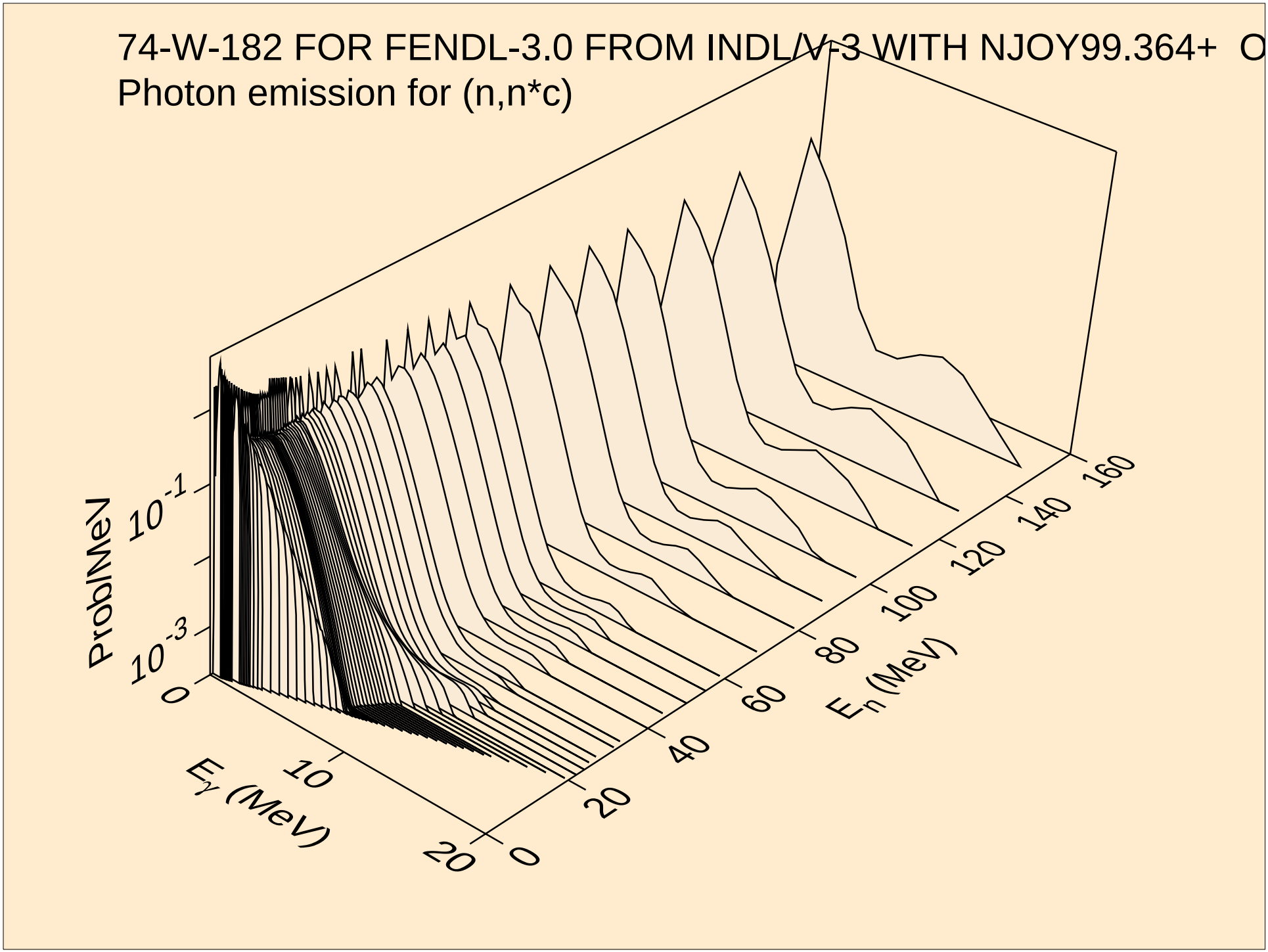

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Photon emission for (n,2n)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
20
40
E_γ (MeV)
0
20
40
60
80
100
120
140
160
E_n (MeV)

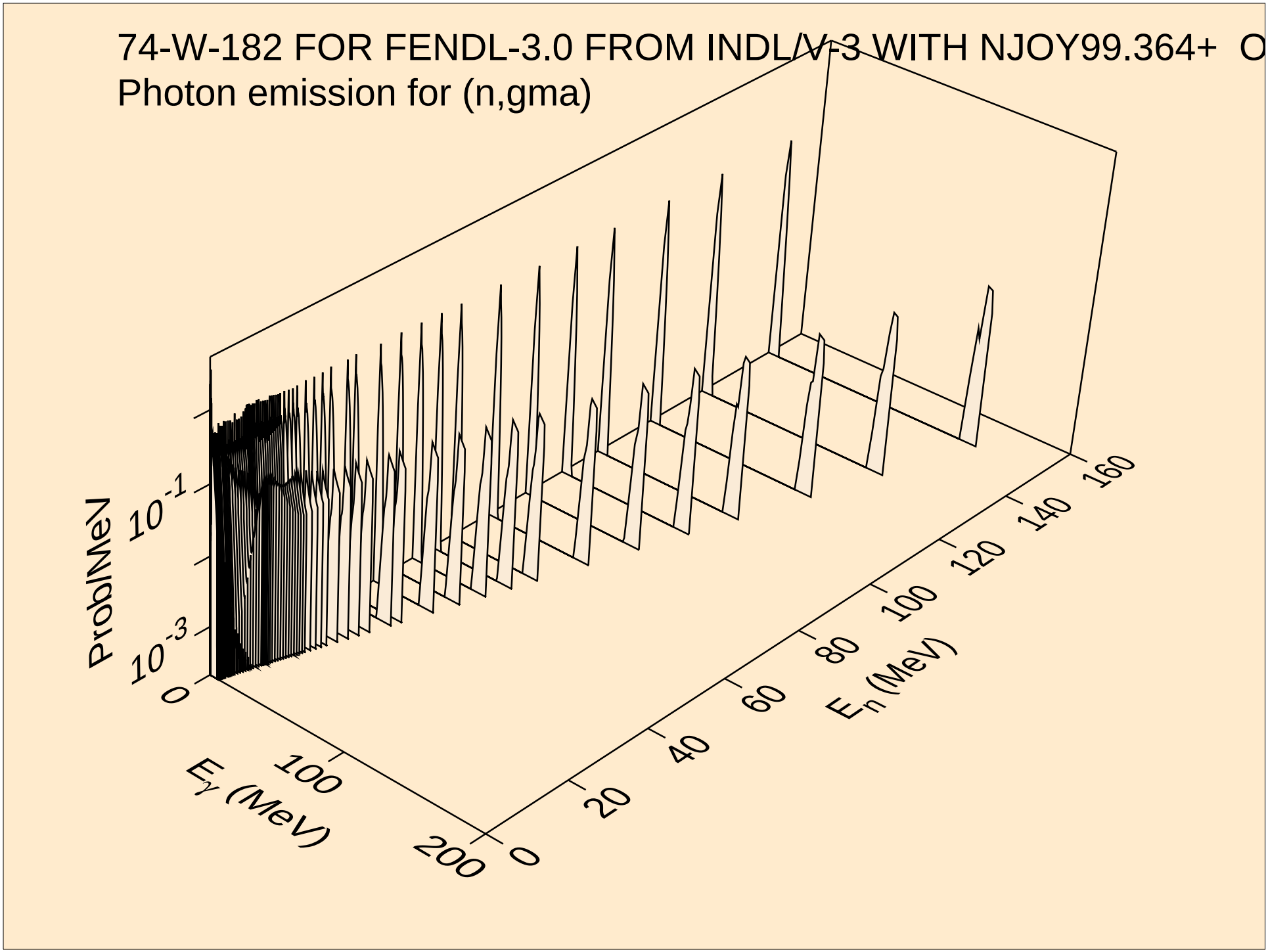

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Photon emission for (n,3n)
Prob/MeV
10-1
10-3
0
Eγ (MeV)
20
40
0
20
40
60
80
100
120
140
160
En (MeV)

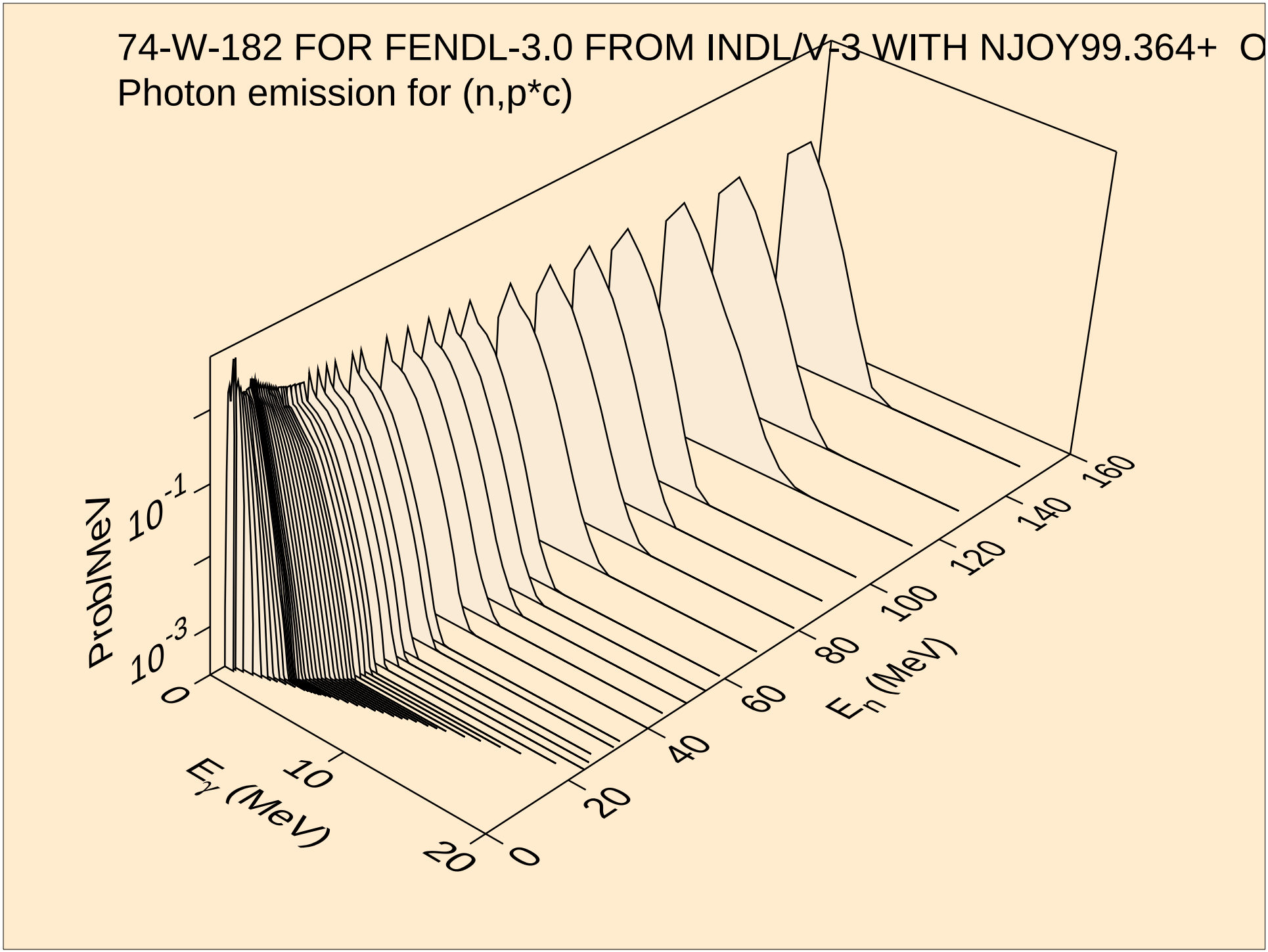

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Photon emission for (n,n*)p
Prob/MeV
10^{1}
10^{-1}
10^{-3}
E_γ (MeV)
0
10
20
E_n (MeV)
0
20
40
60
80
100
120
140
160

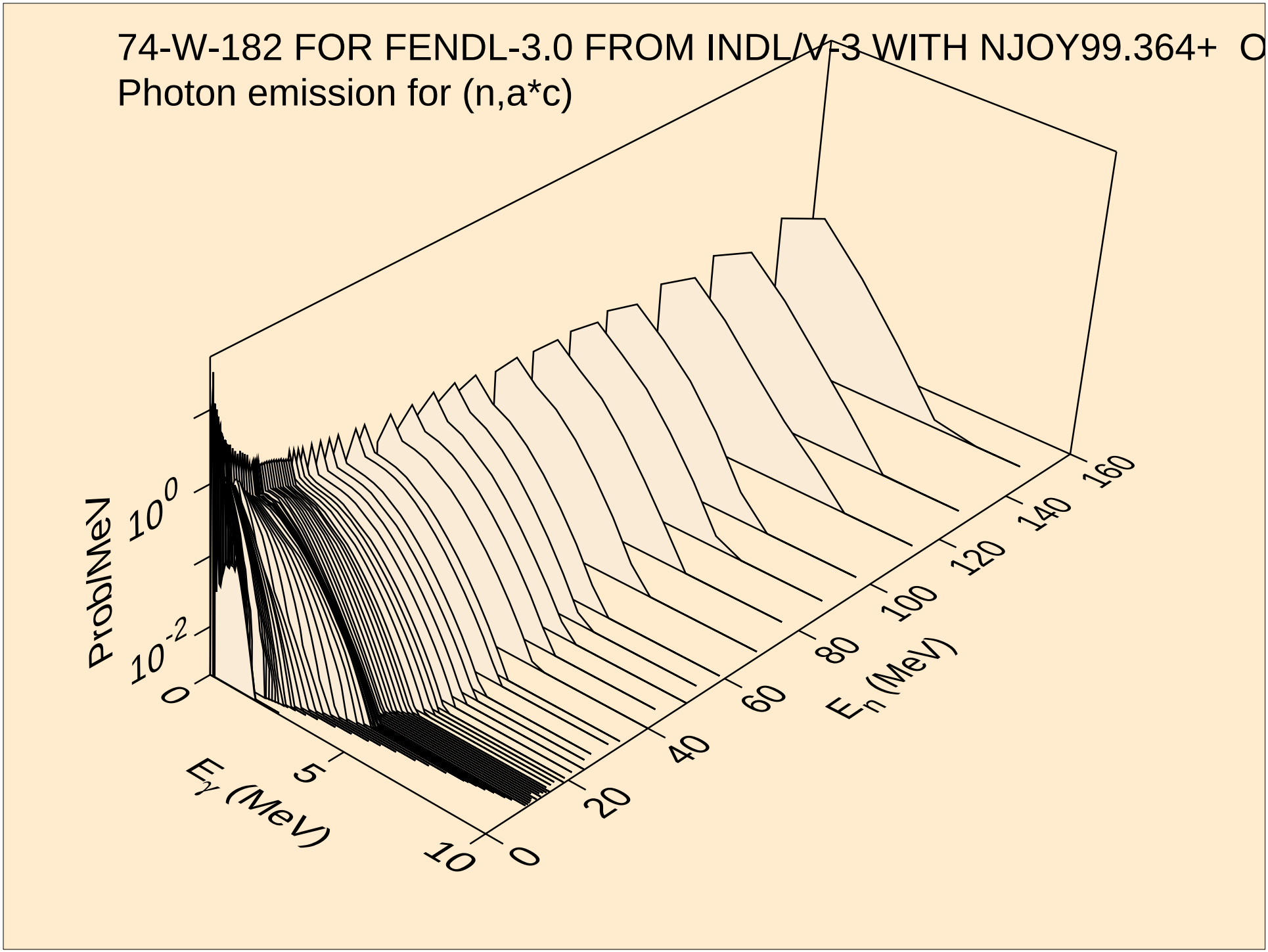

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Photon emission for (n,4n)
Prob/MeV
10-1
10-3
0
Eγ (MeV)
20
40
20
40
60
80
100
120
140
160
En (MeV)

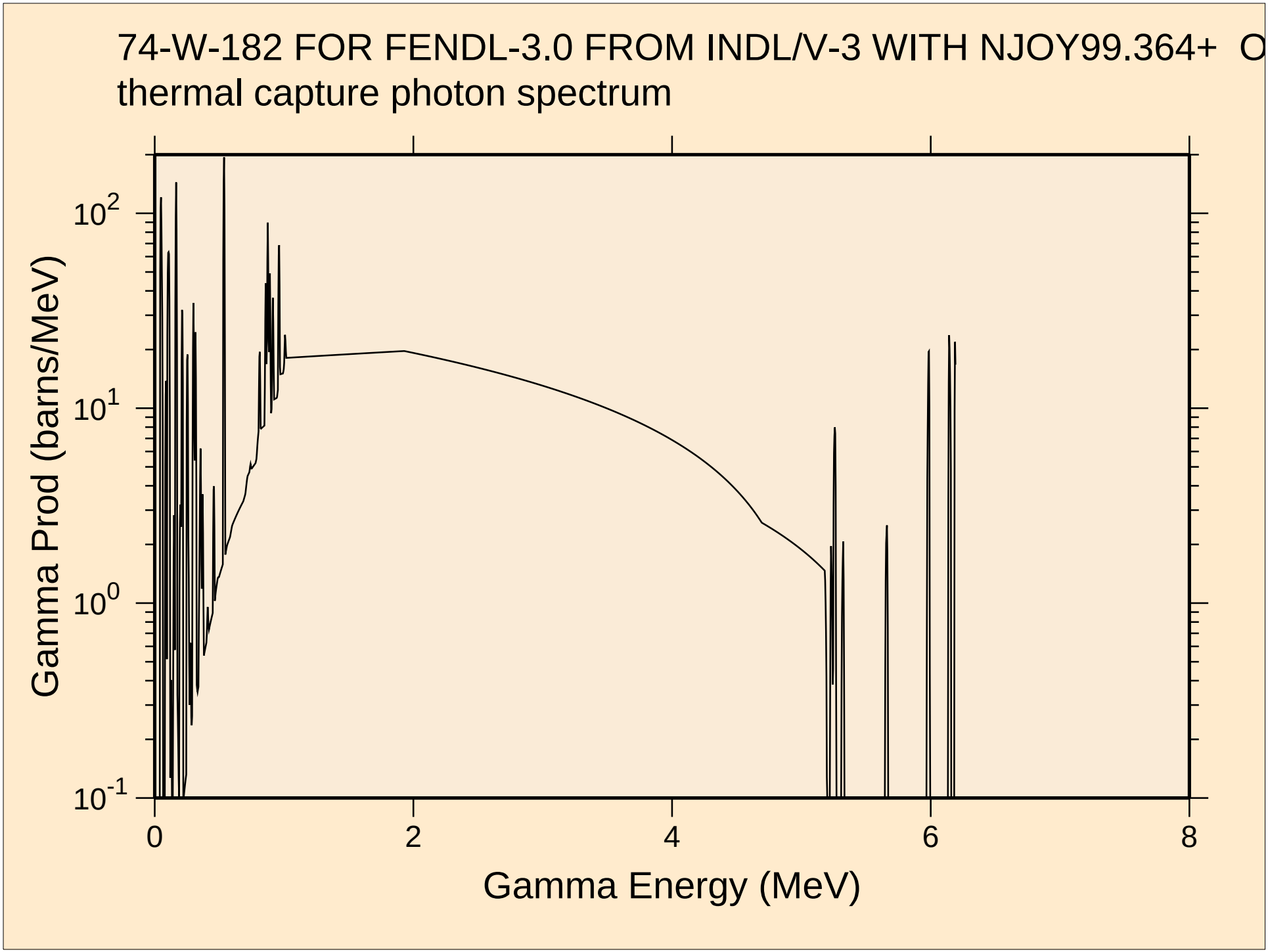

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Photon emission for (n,2np)
Prob/MeV
10-1
10-3
0
Eγ (MeV)
20
40
0
20
40
60
80
100
120
140
160
En (MeV)

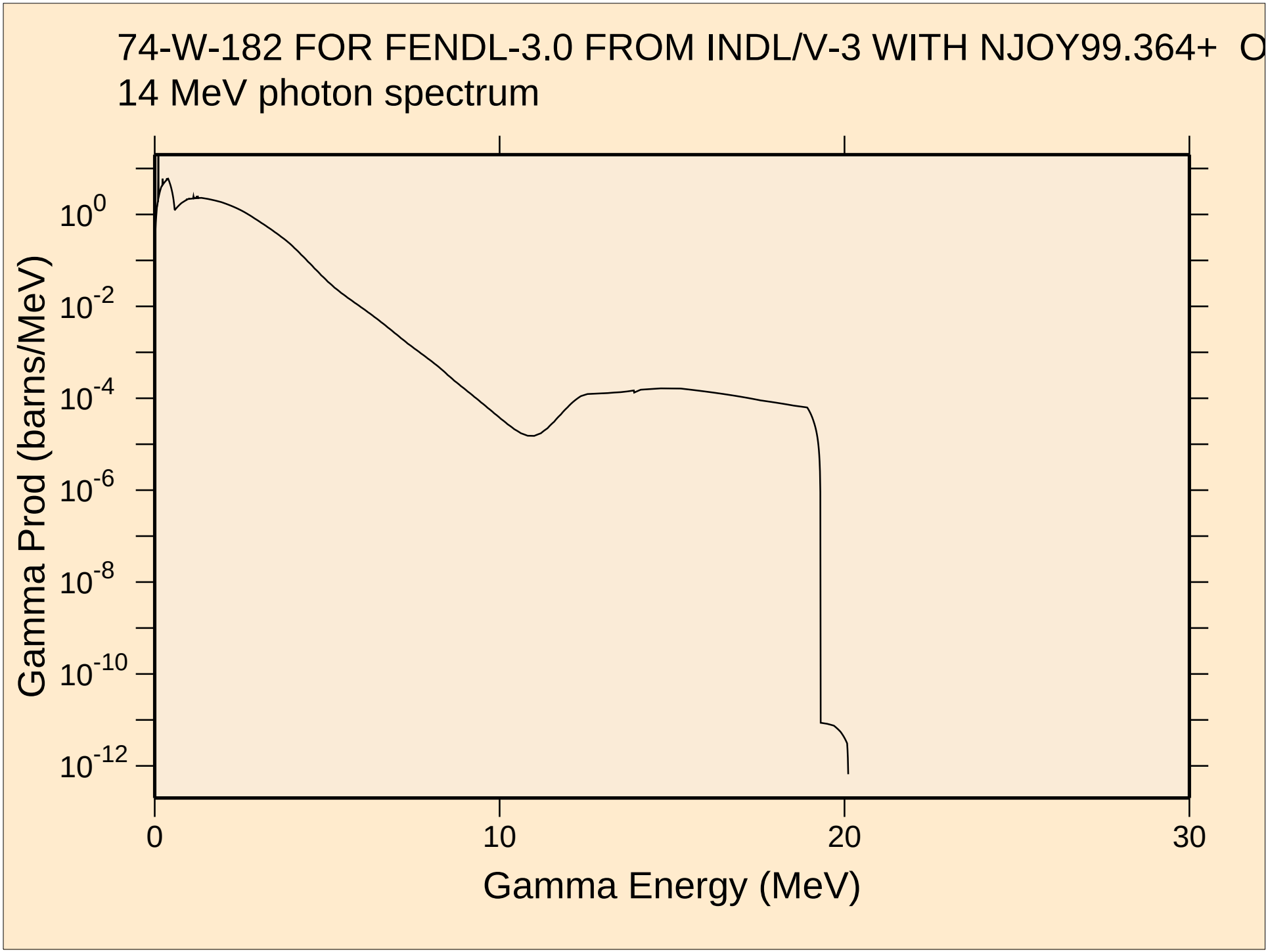

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Photon emission for (n,n*c)
Prob/MeV
10-1
10-3
0
Eγ (MeV)
10
20
0
20
40
60
80
100
120
140
160
En (MeV)

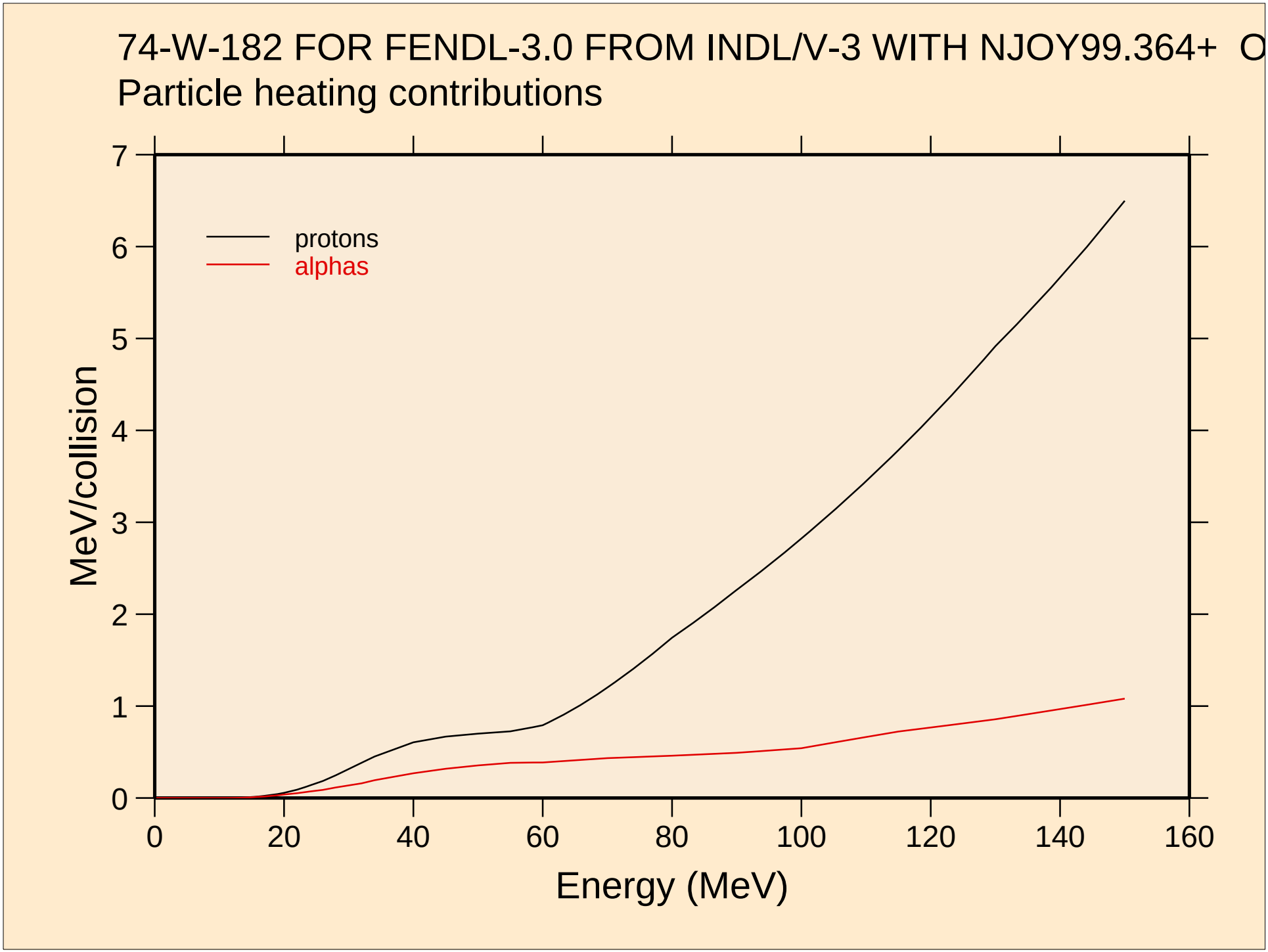

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Photon emission for (n,gma)
Prob/MeV
10-1
10-3
0
Eγ (MeV)
100
200
0
20
40
60
80
100
120
140
160
En (MeV)

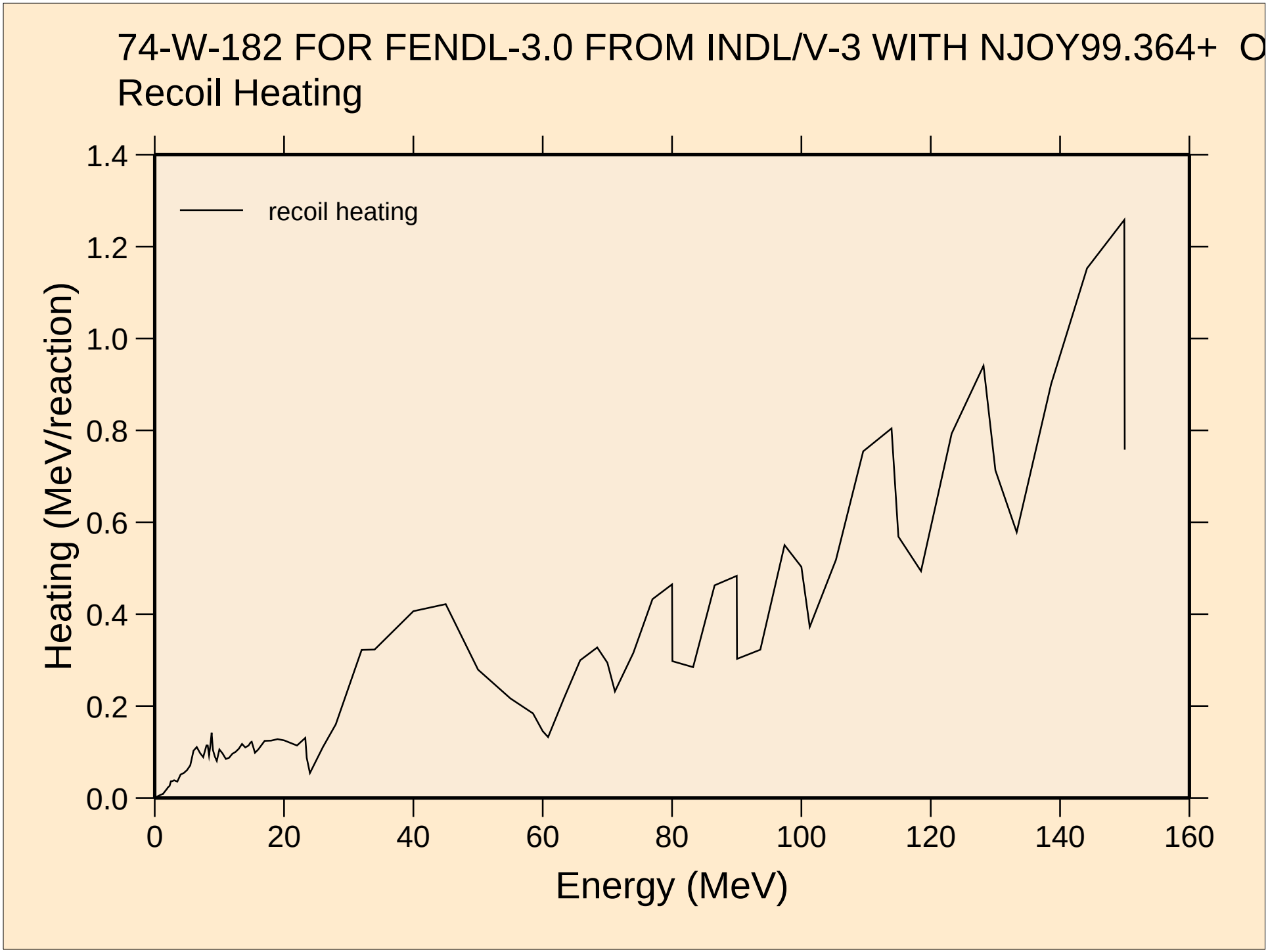

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Photon emission for (n,p*c)
Prob/MeV
10-1
10-3
0
Eγ (MeV)
10
20
0
20
40
60
80
100
120
140
160
En (MeV)

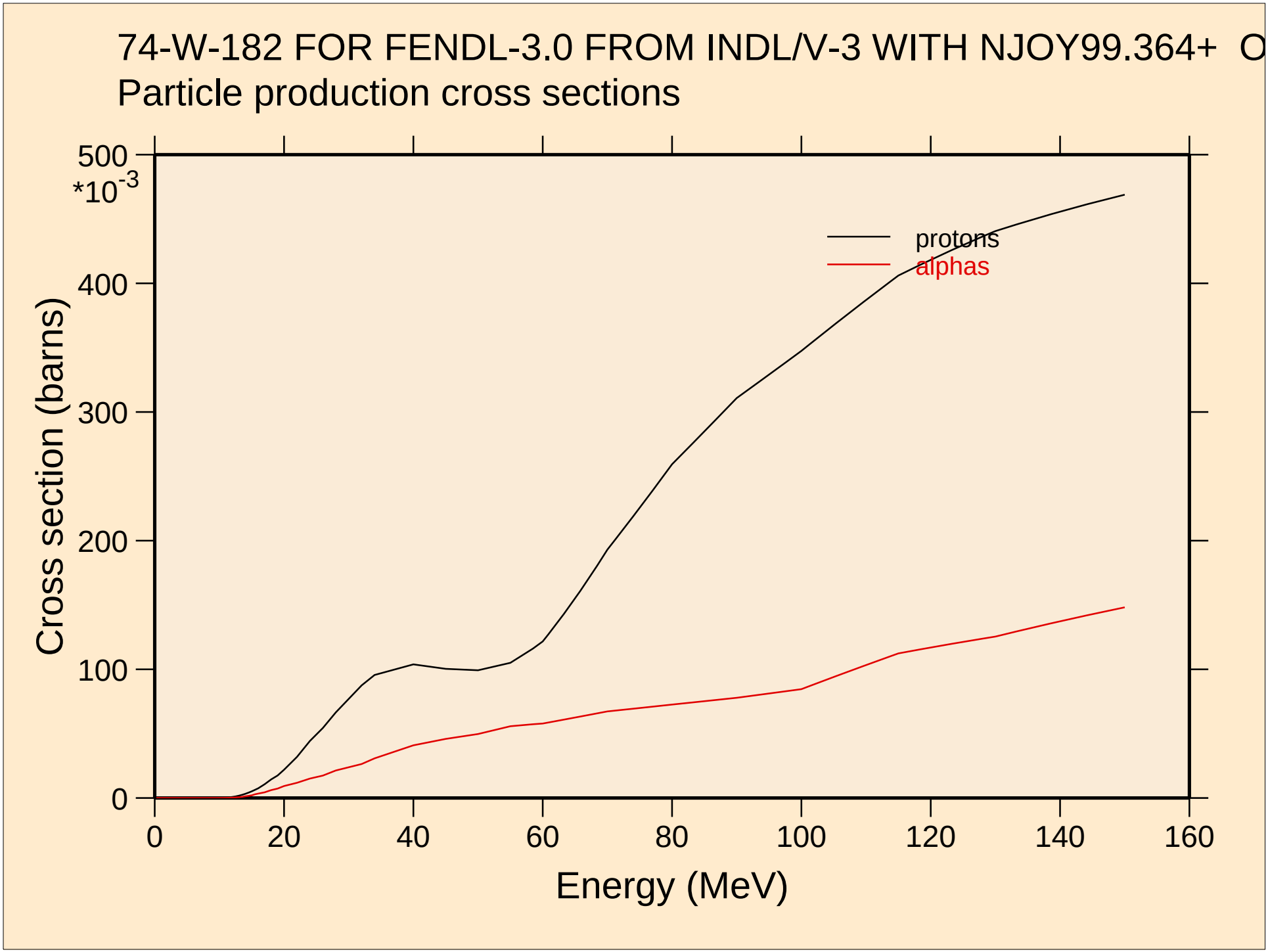

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Photon emission for (n,a*c)
Prob/MeV
10^0
10^-2
0
E_γ (MeV)
5
10
0
20
40
60
80
100
120
140
160
E_n (MeV)

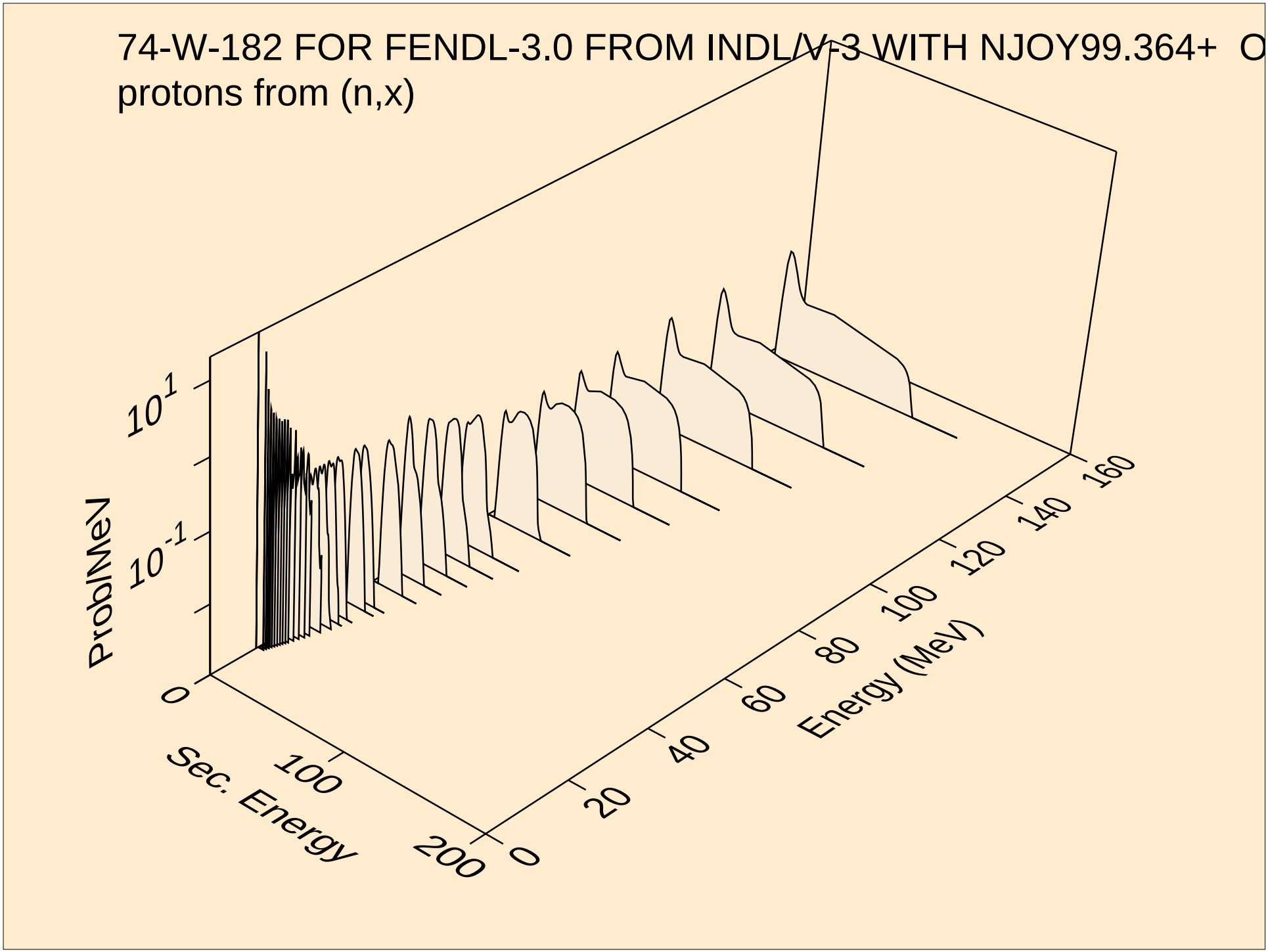

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10^2
10^1
10^0
10^-1
0
2
4
6
8
Gamma Energy (MeV)

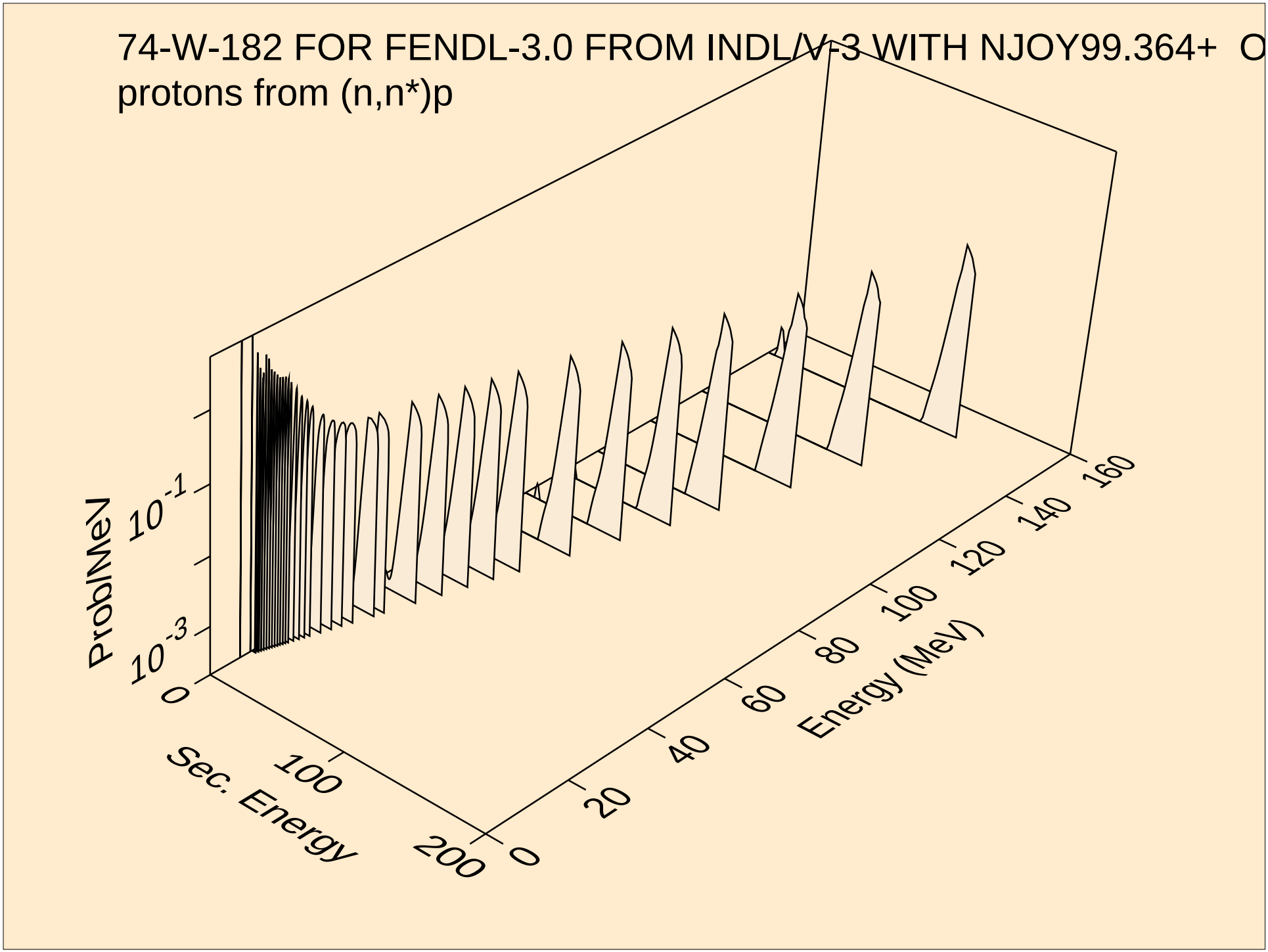

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^0
10^-2
10^-4
10^-6
10^-8
10^-10
10^-12
0
10
20
30
Gamma Energy (MeV)

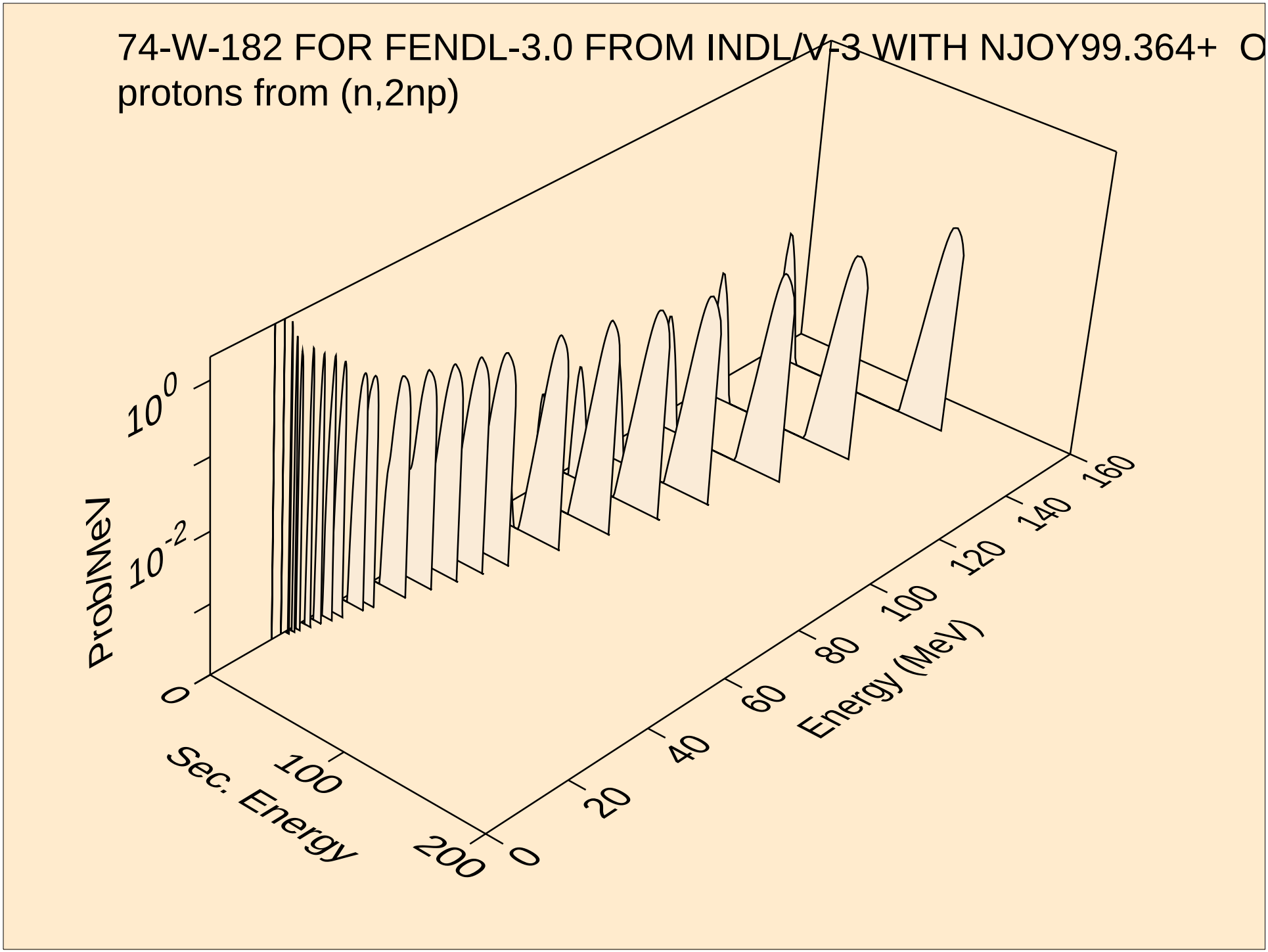

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Particle heating contributions
protons
alphas
MeV/collision
Energy (MeV)
0
1
2
3
4
5
6
7
0
20
40
60
80
100
120
140
160

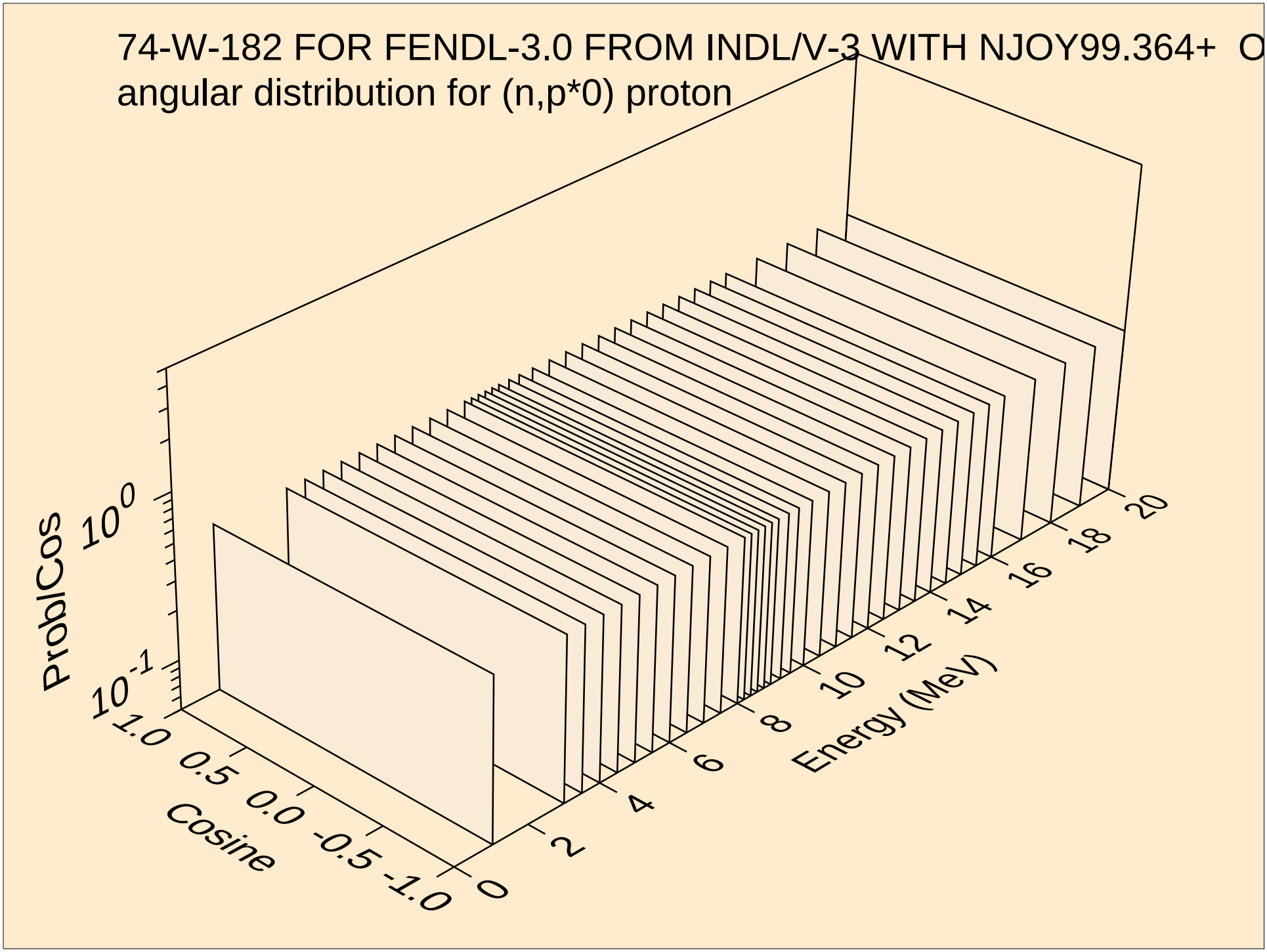

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
20
40
60
80
100
120
140
160

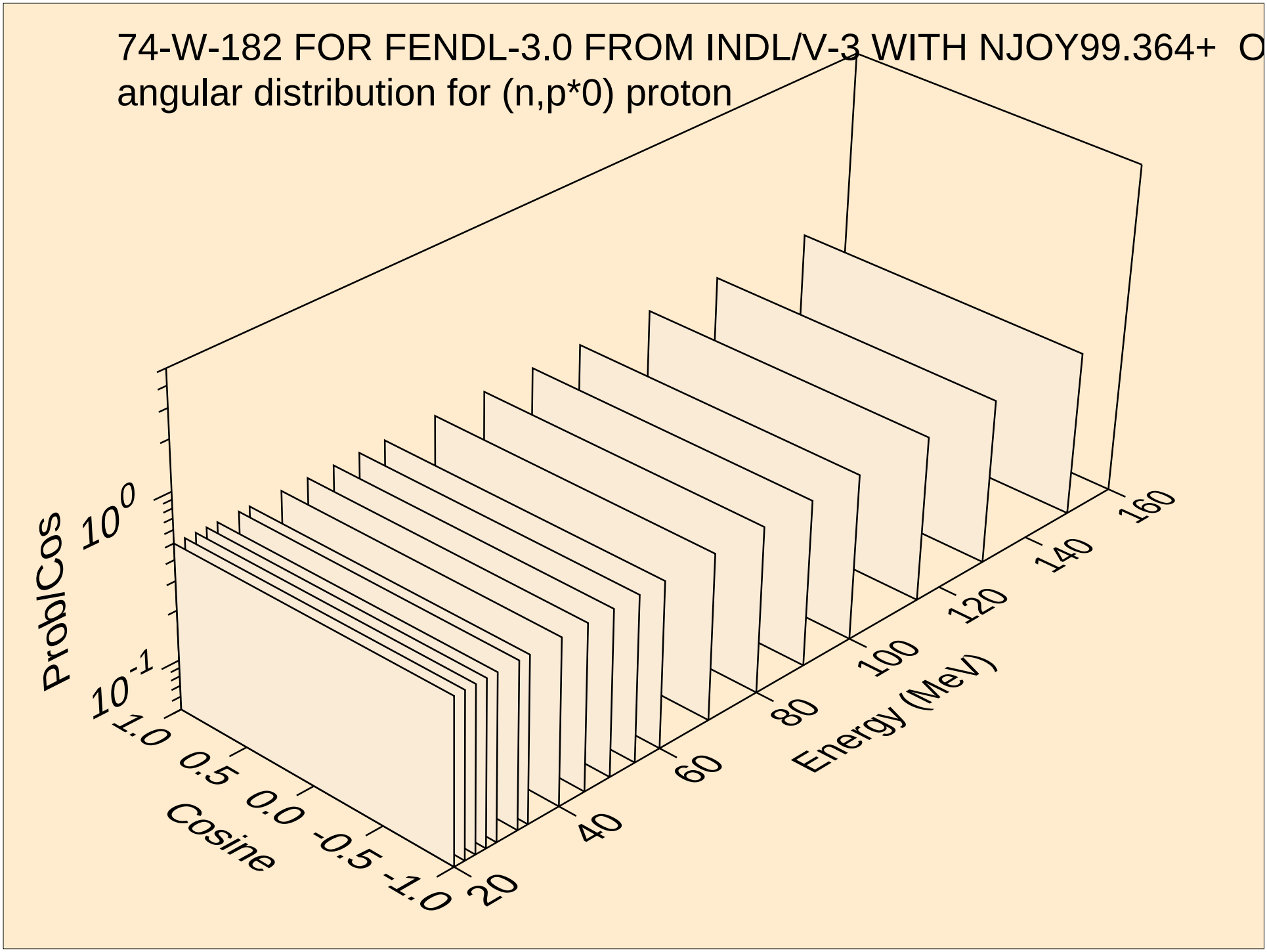

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
Particle production cross sections
500
*10-3
400
300
200
100
0
Cross section (barns)
protons
alphas
0
20
40
60
80
100
120
140
160
Energy (MeV)

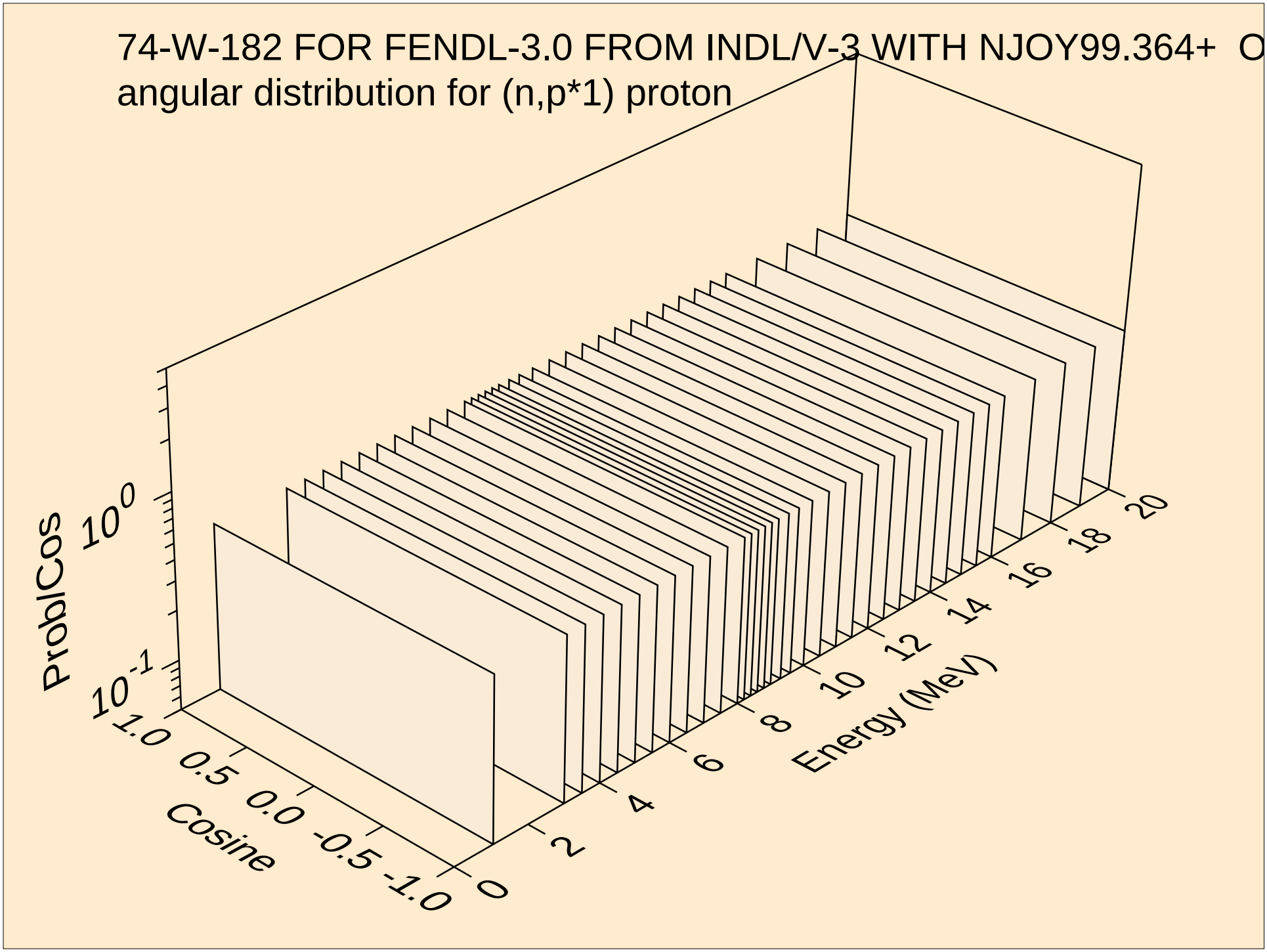

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
protons from (n,x)
Prob/MeV
10^1
10^-1
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)

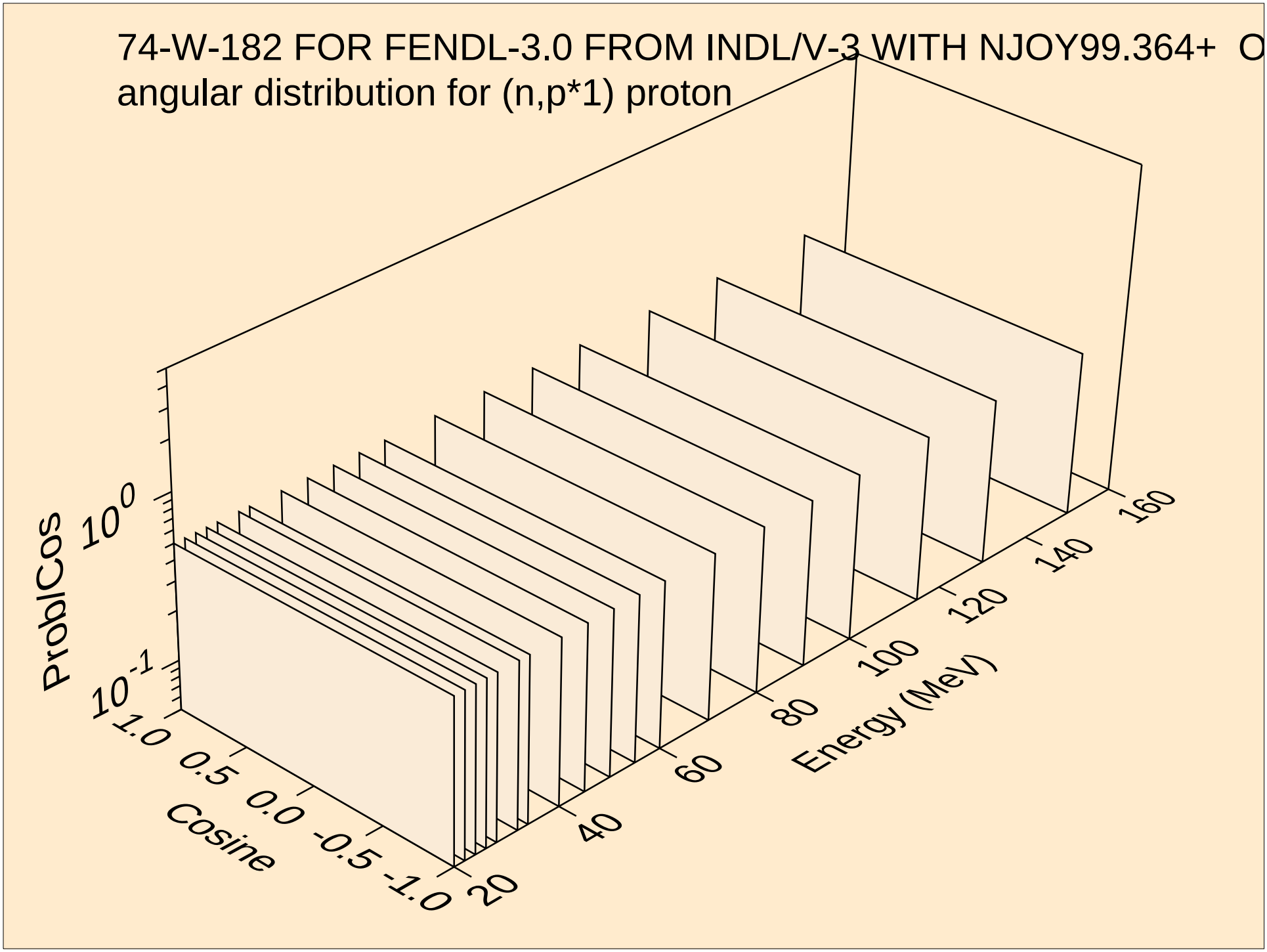

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
protons from (n,n*)p
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)

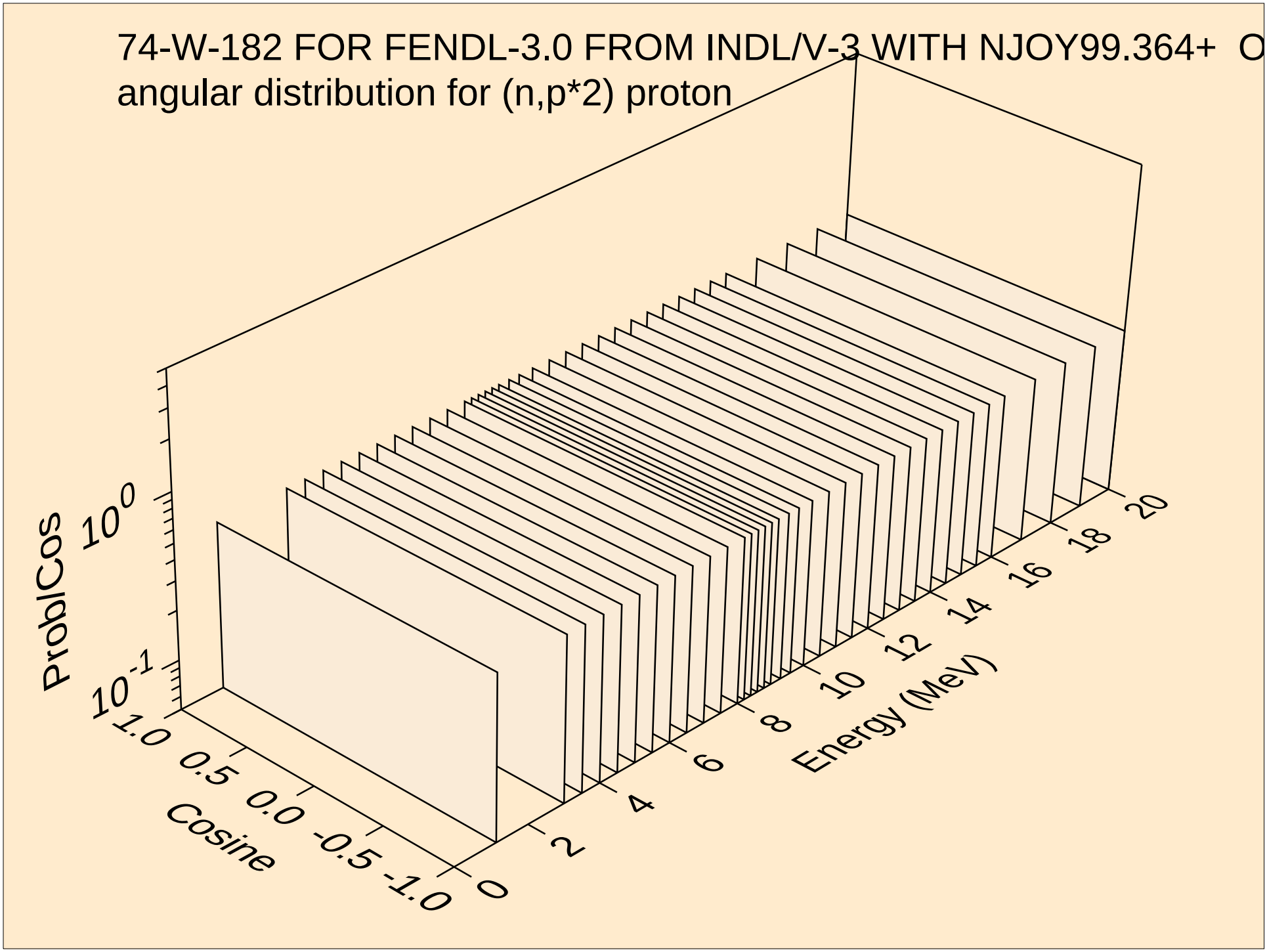

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
protons from (n,2np)
Prob/MeV
10^0
10^-2
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)

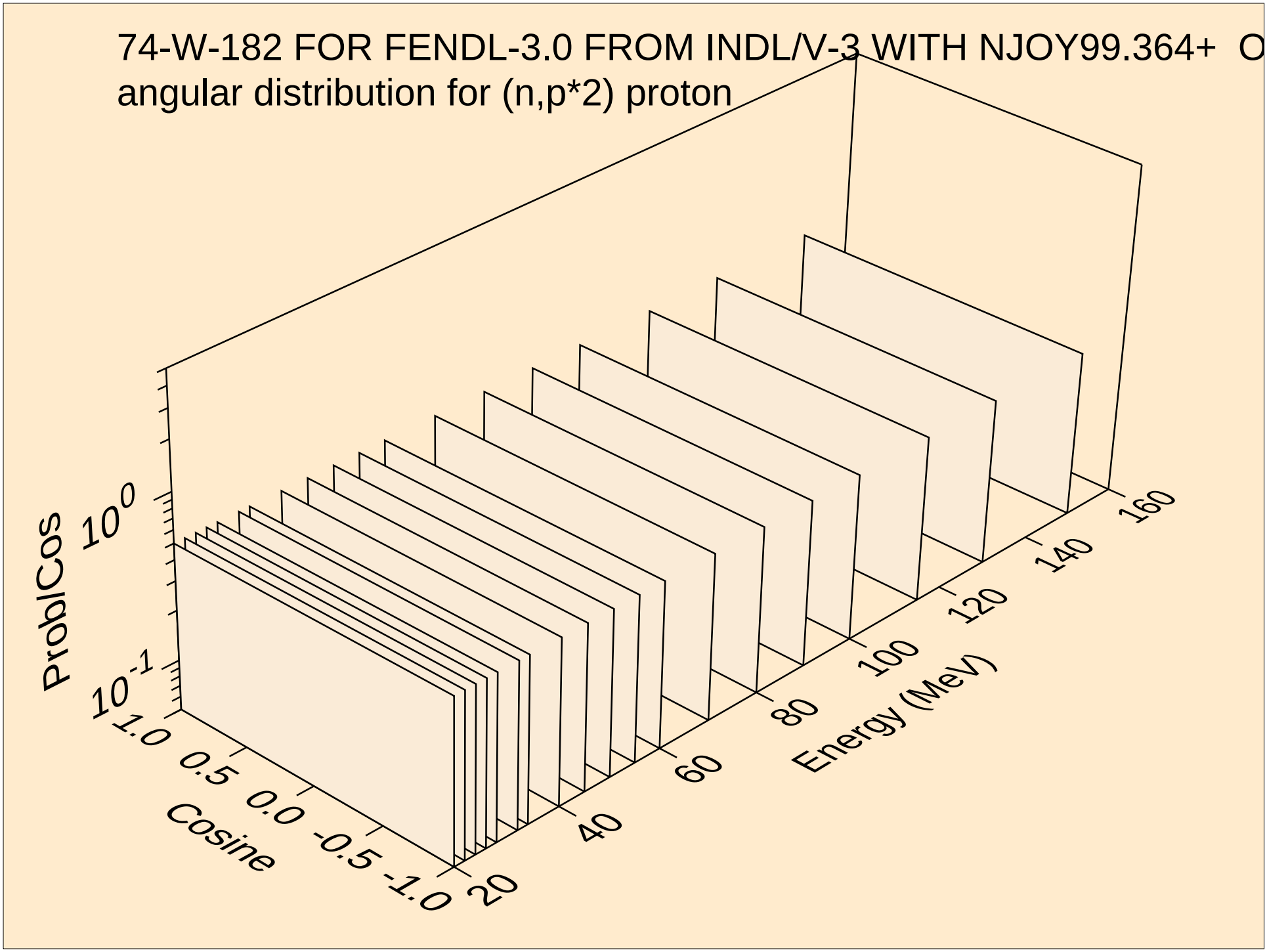

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*0) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

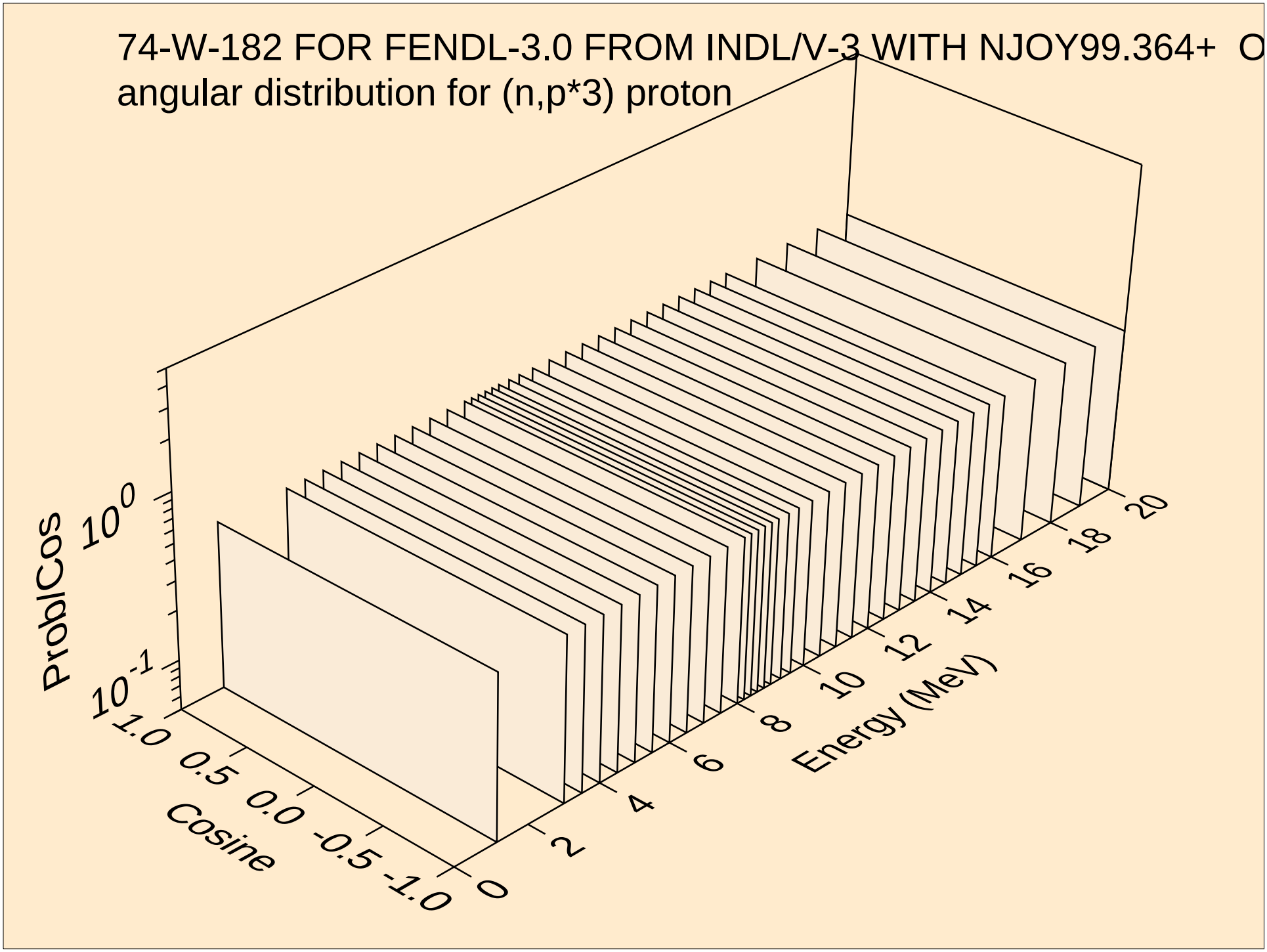

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*0) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

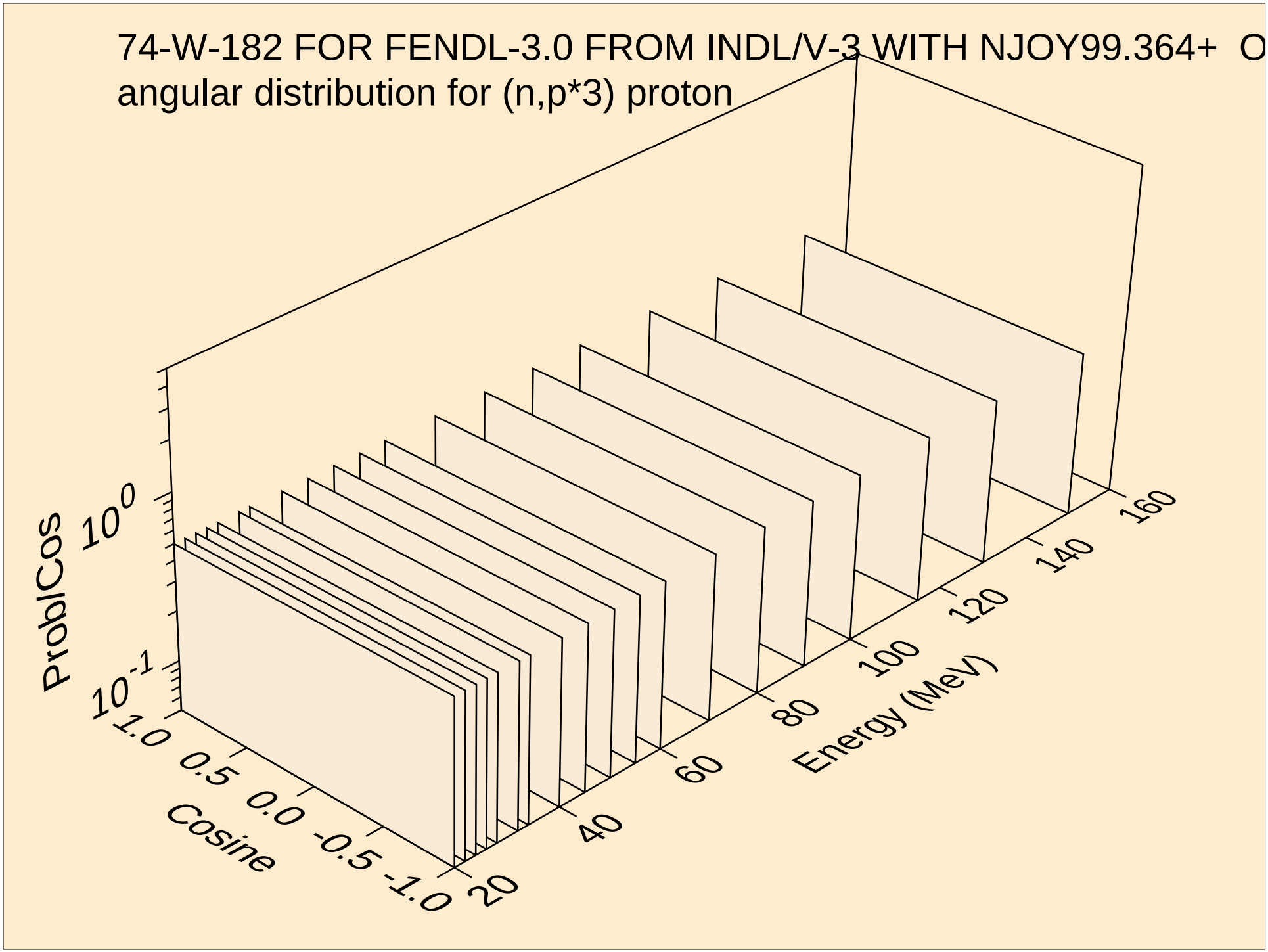

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*1) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

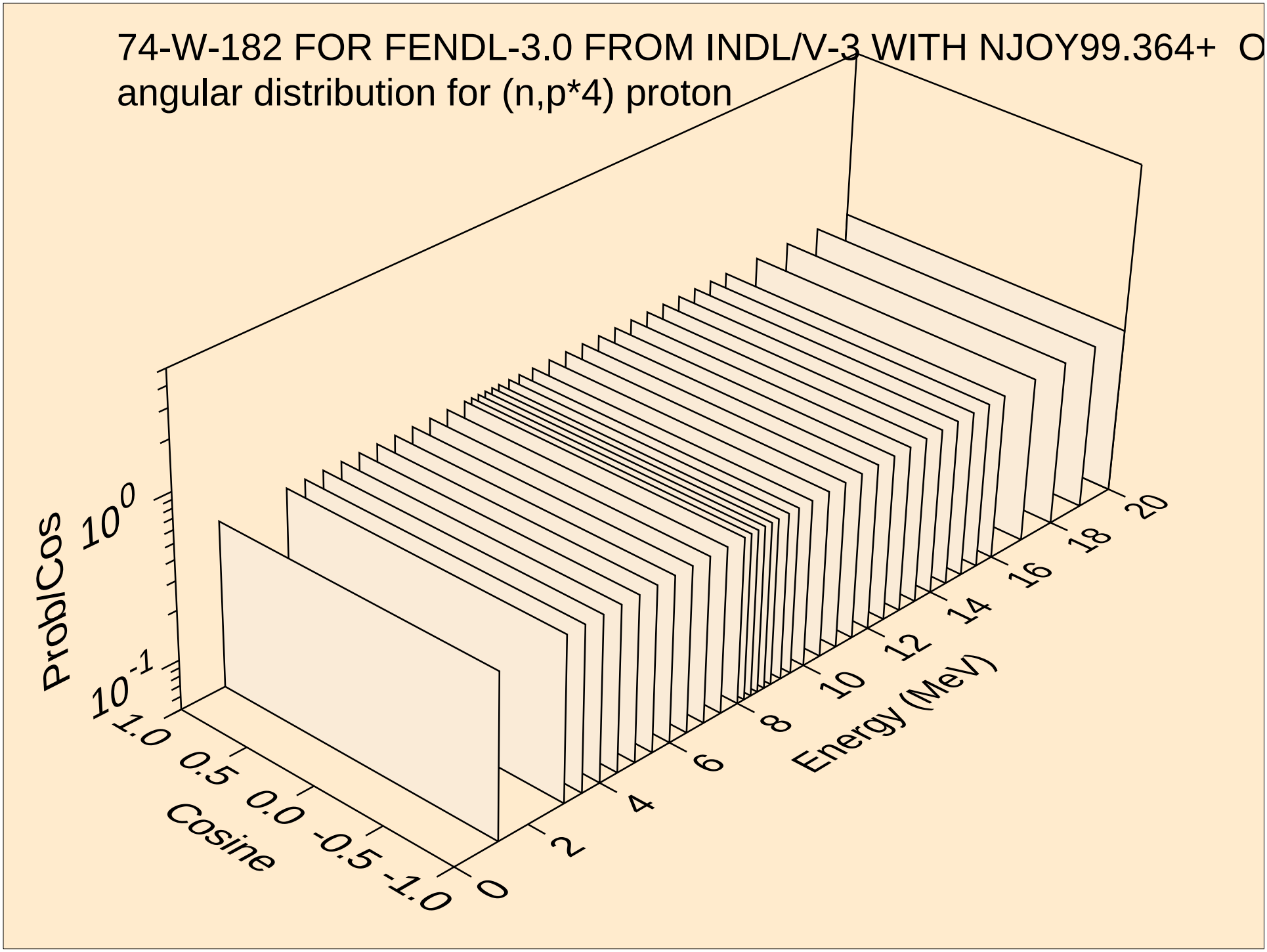

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*1) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

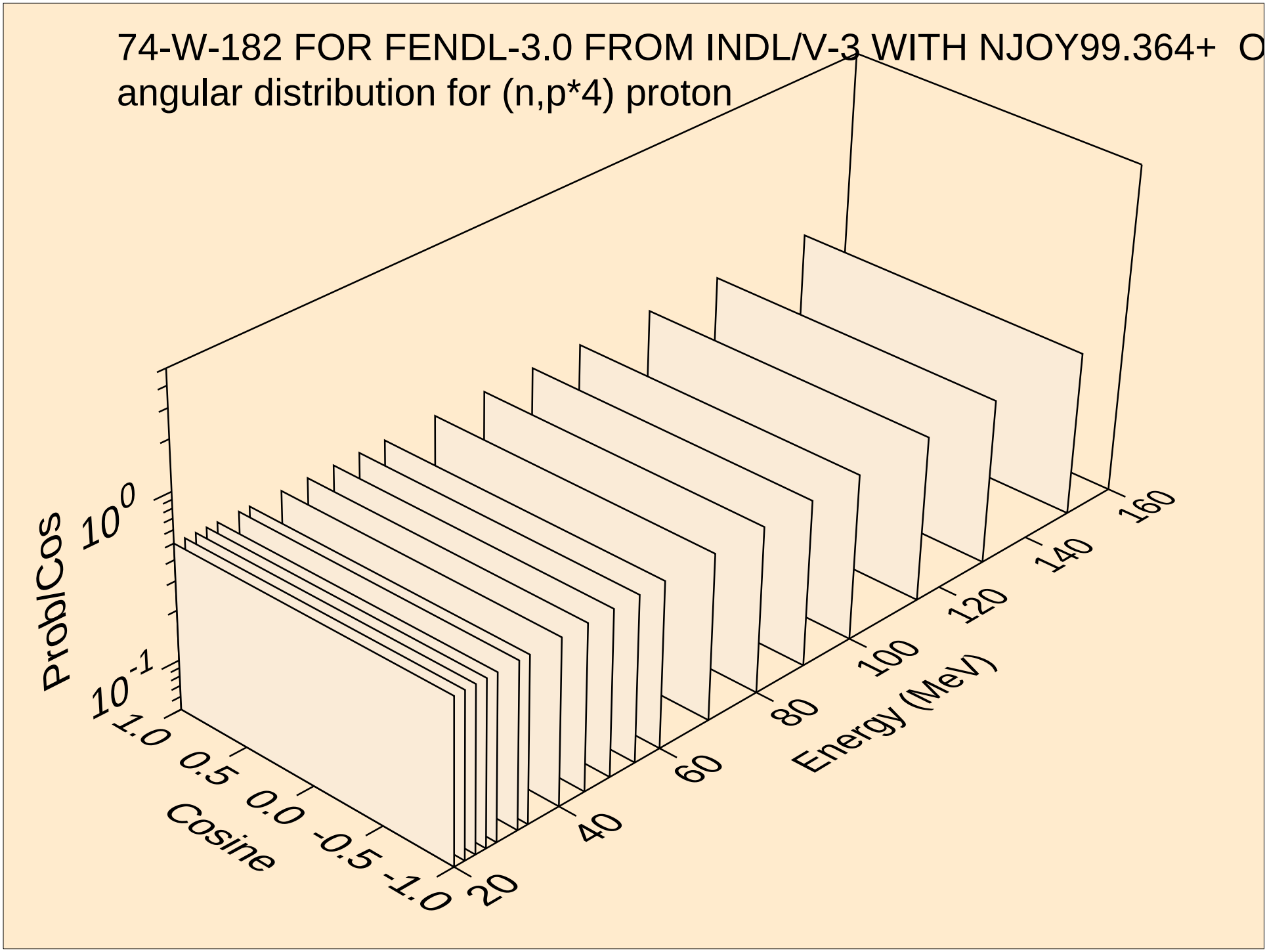

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*2) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

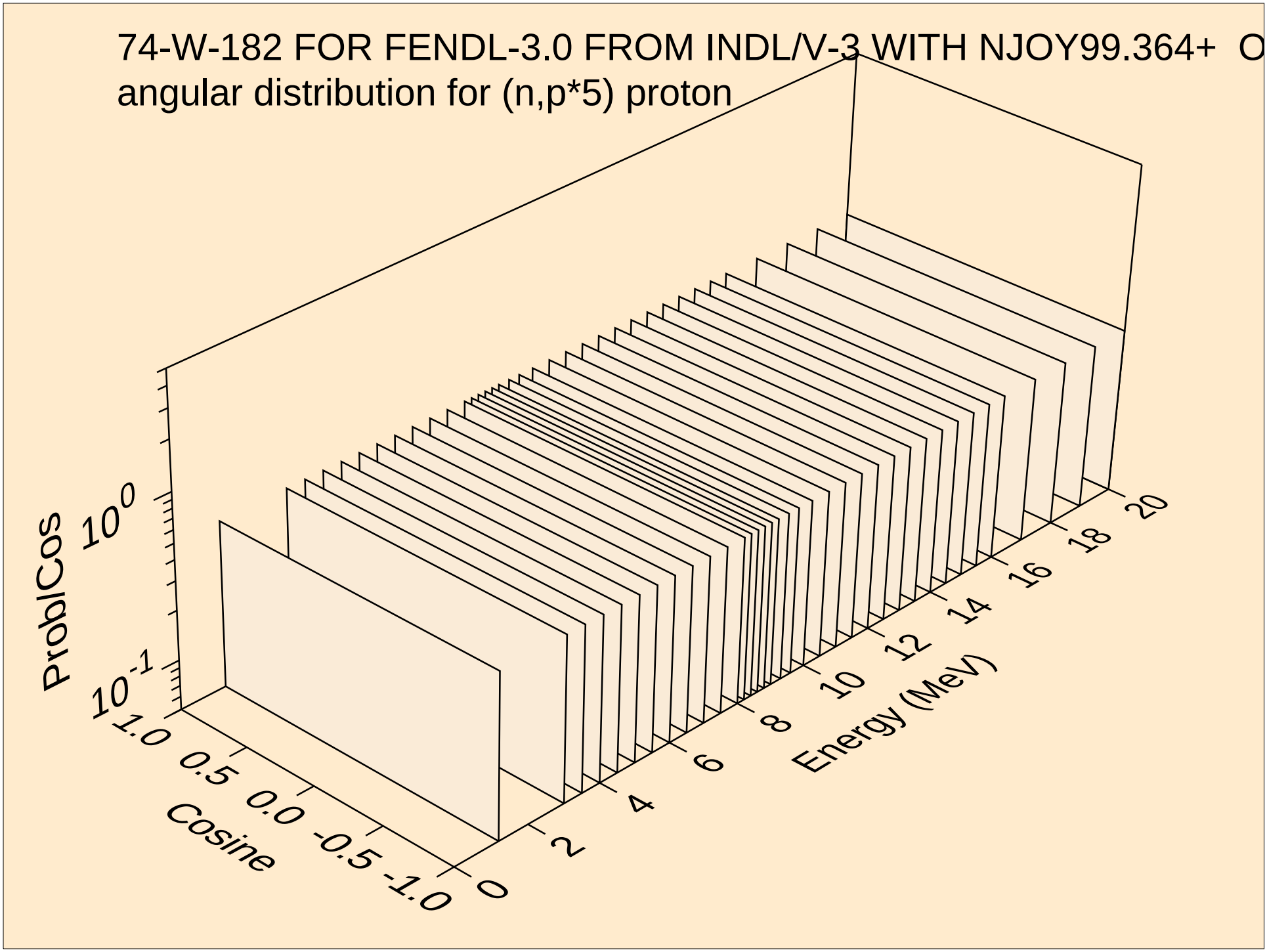

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*2) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

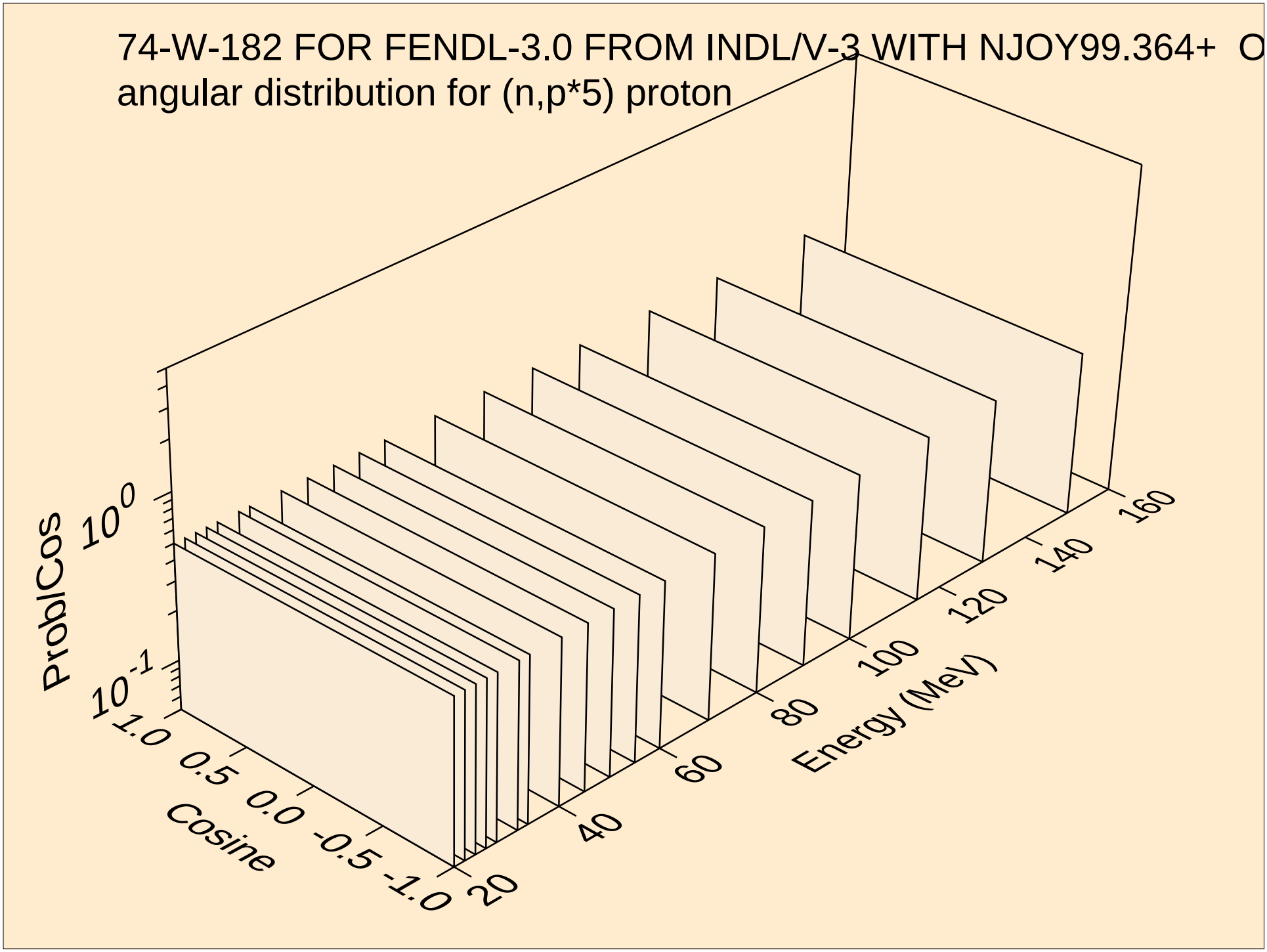

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*3) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

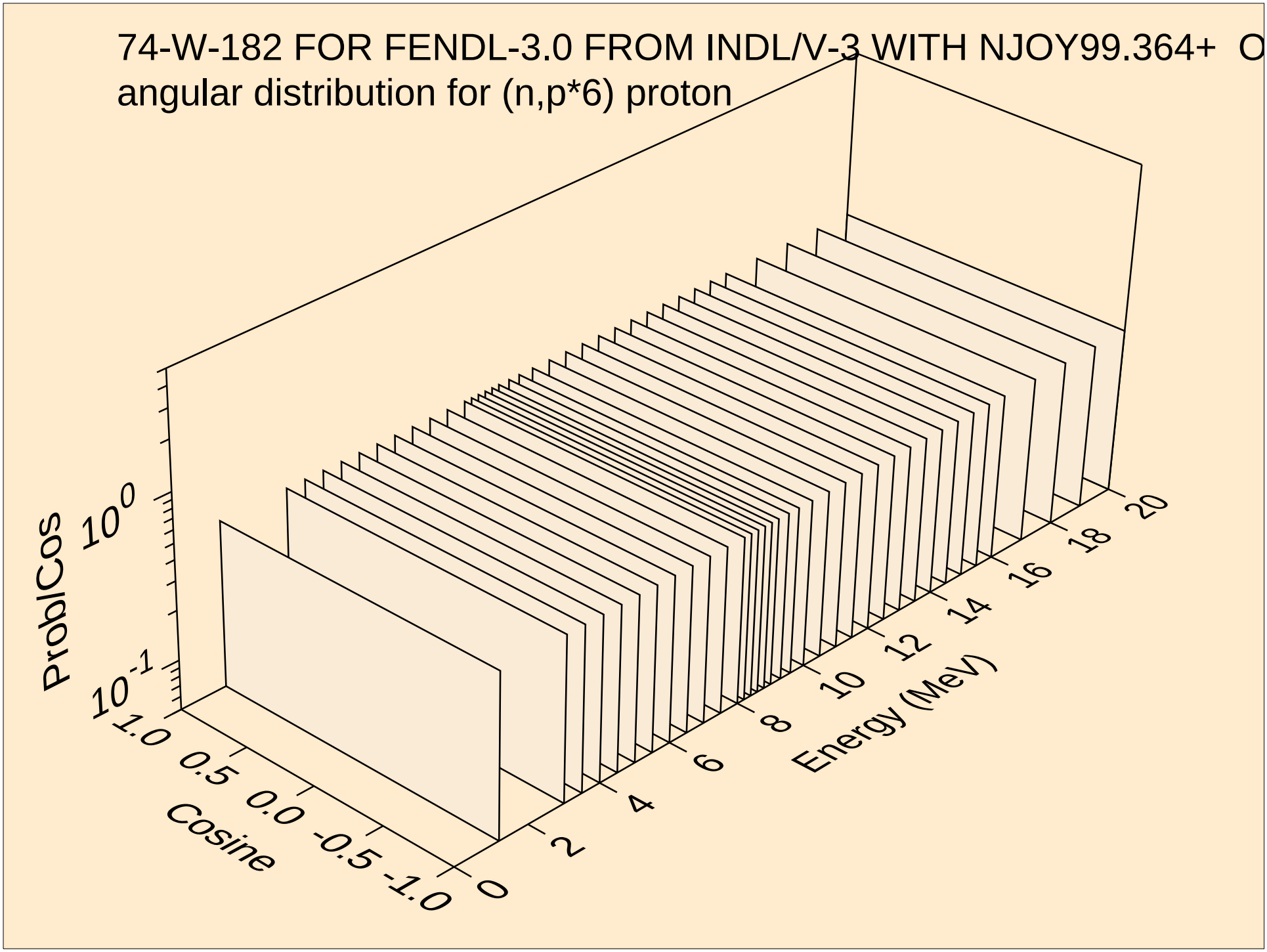

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*3) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

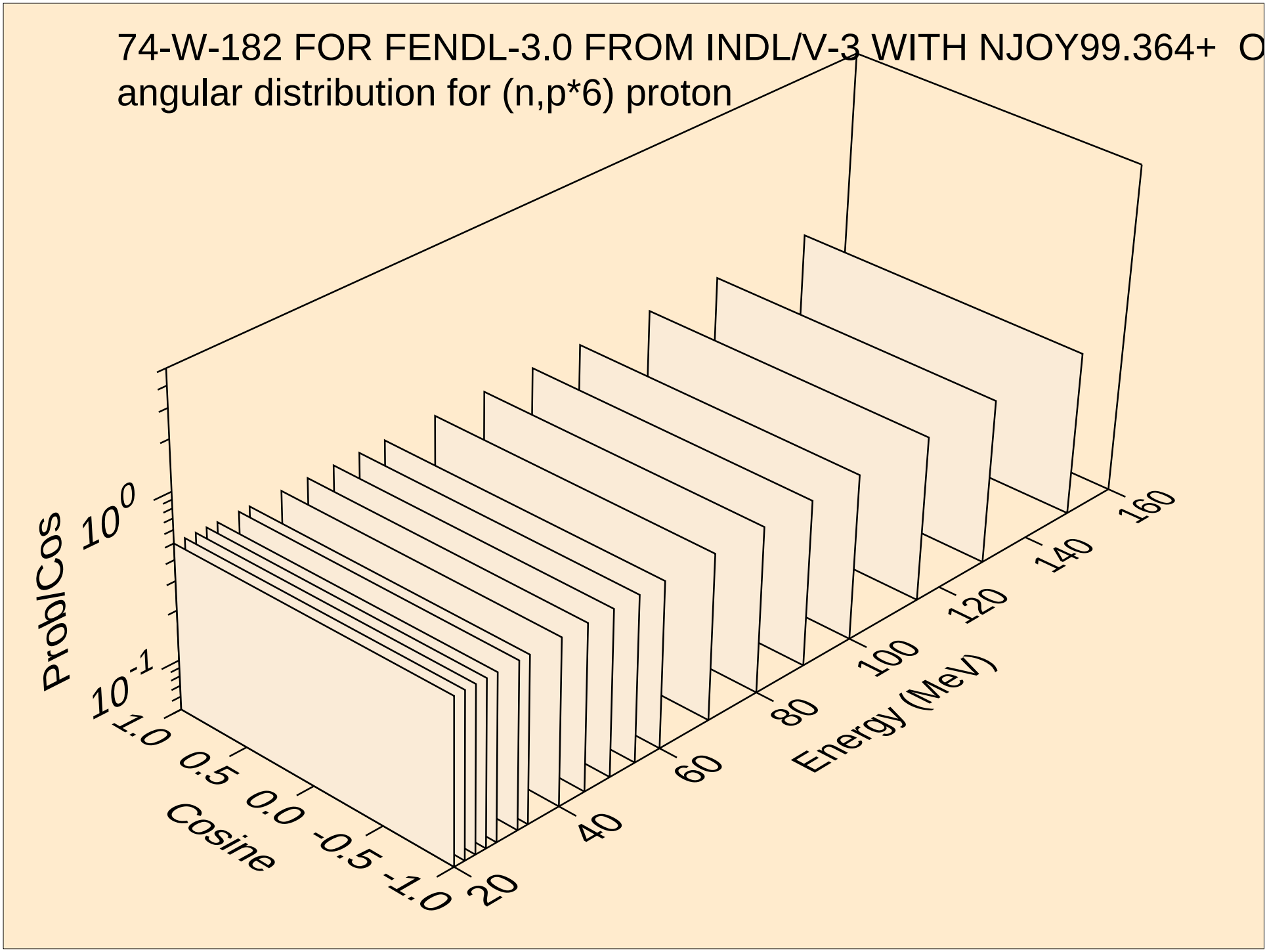

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*4) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

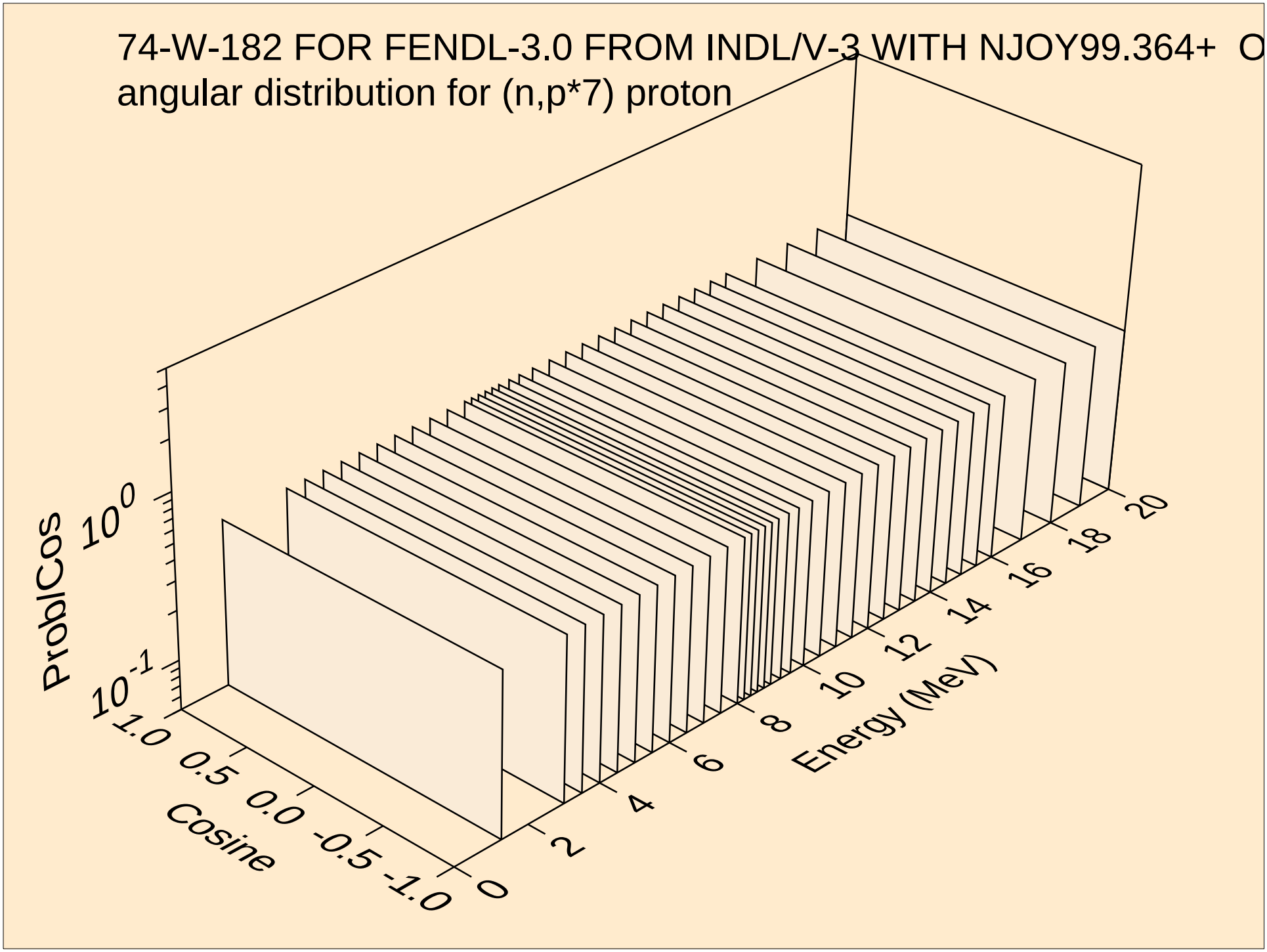

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*4) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

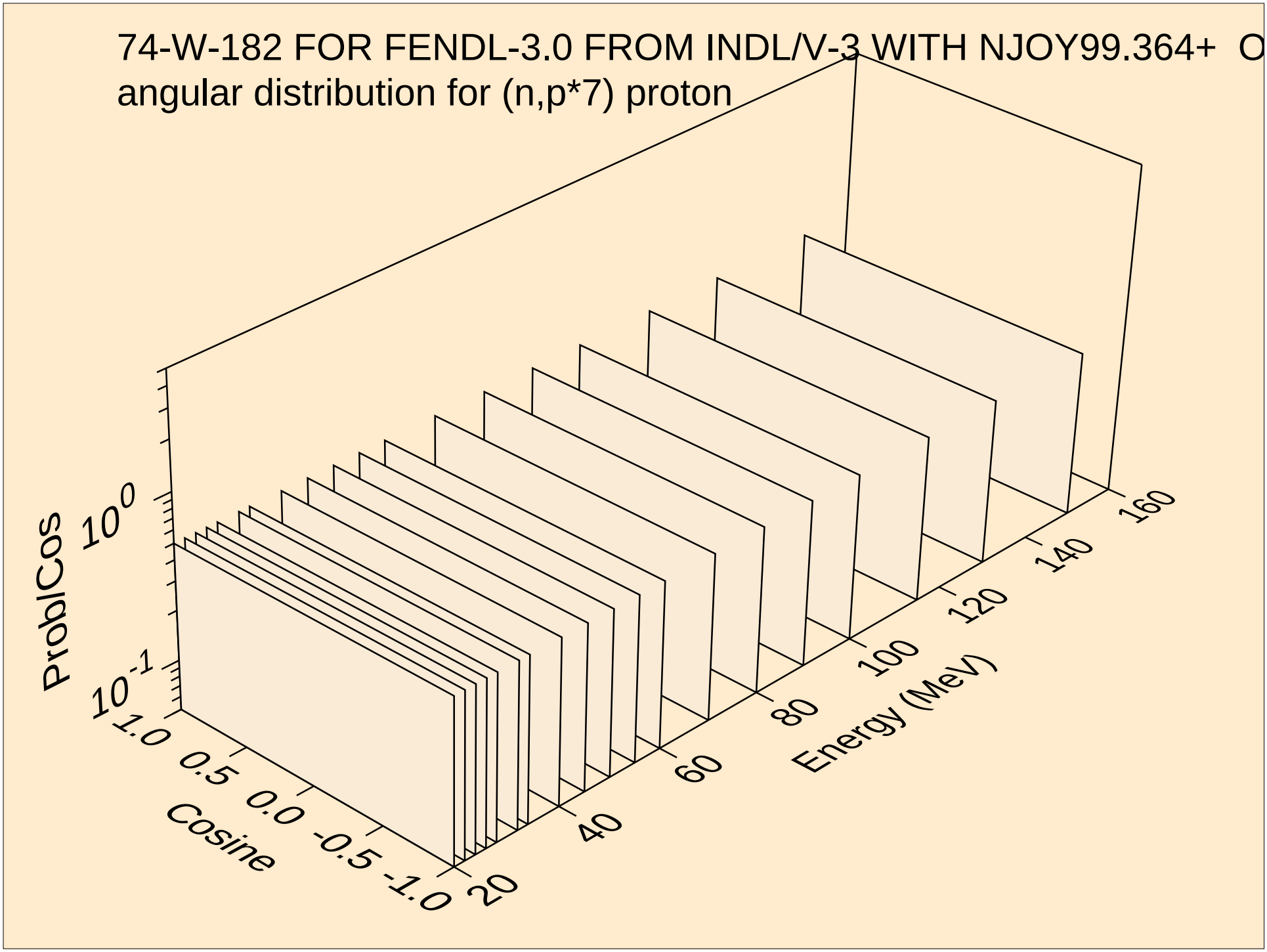

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*5) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

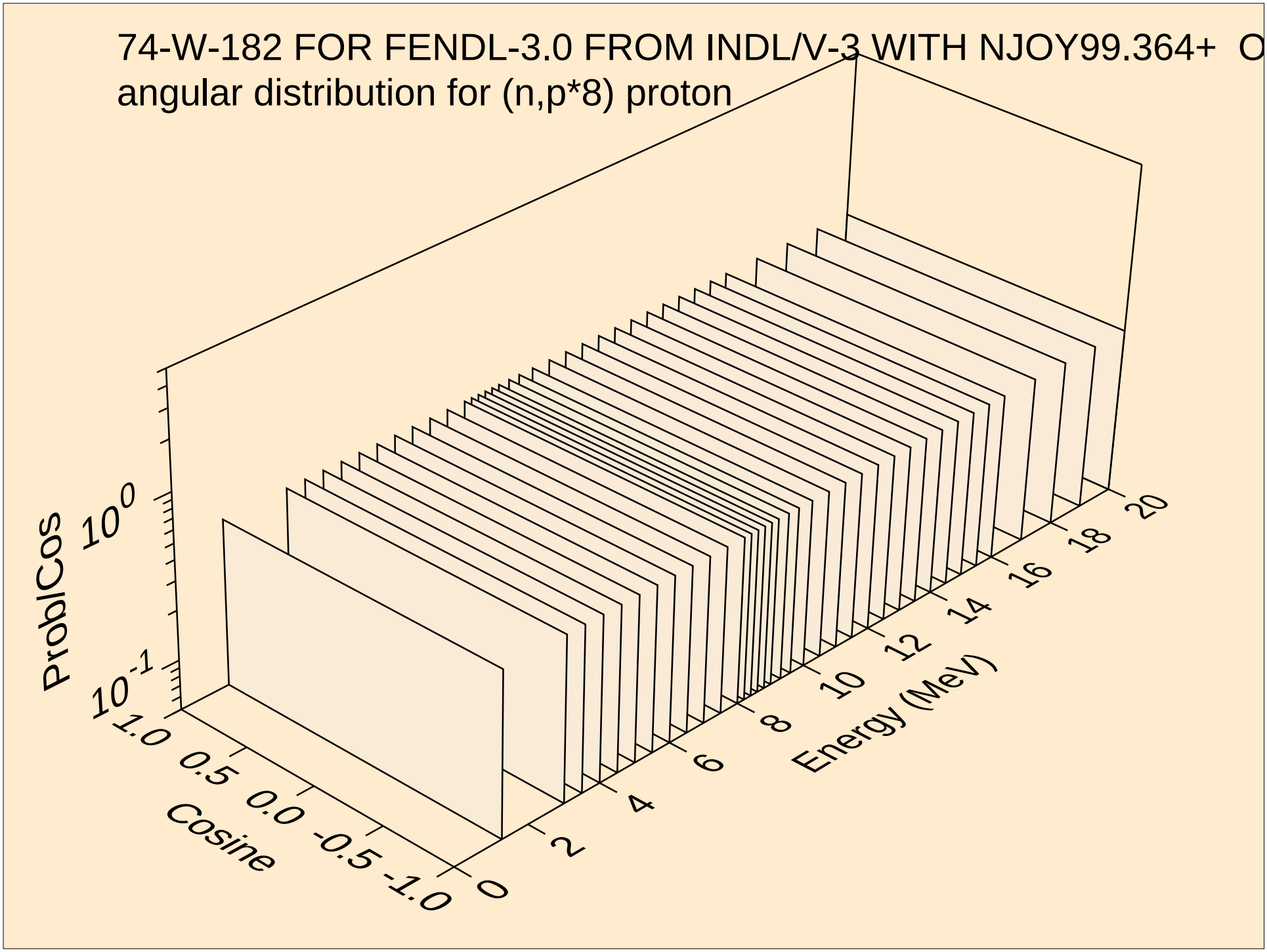

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*5) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

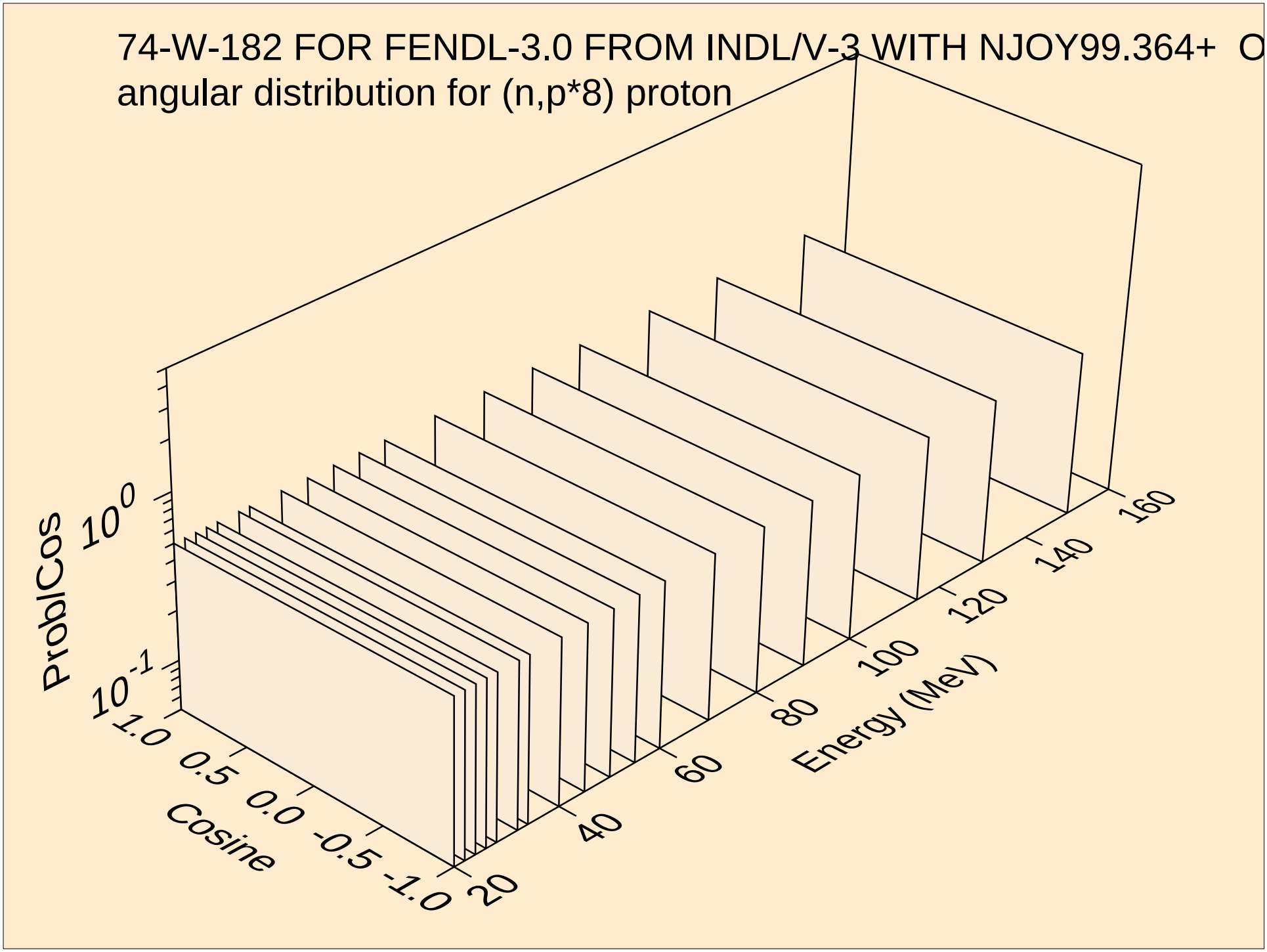

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*6) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

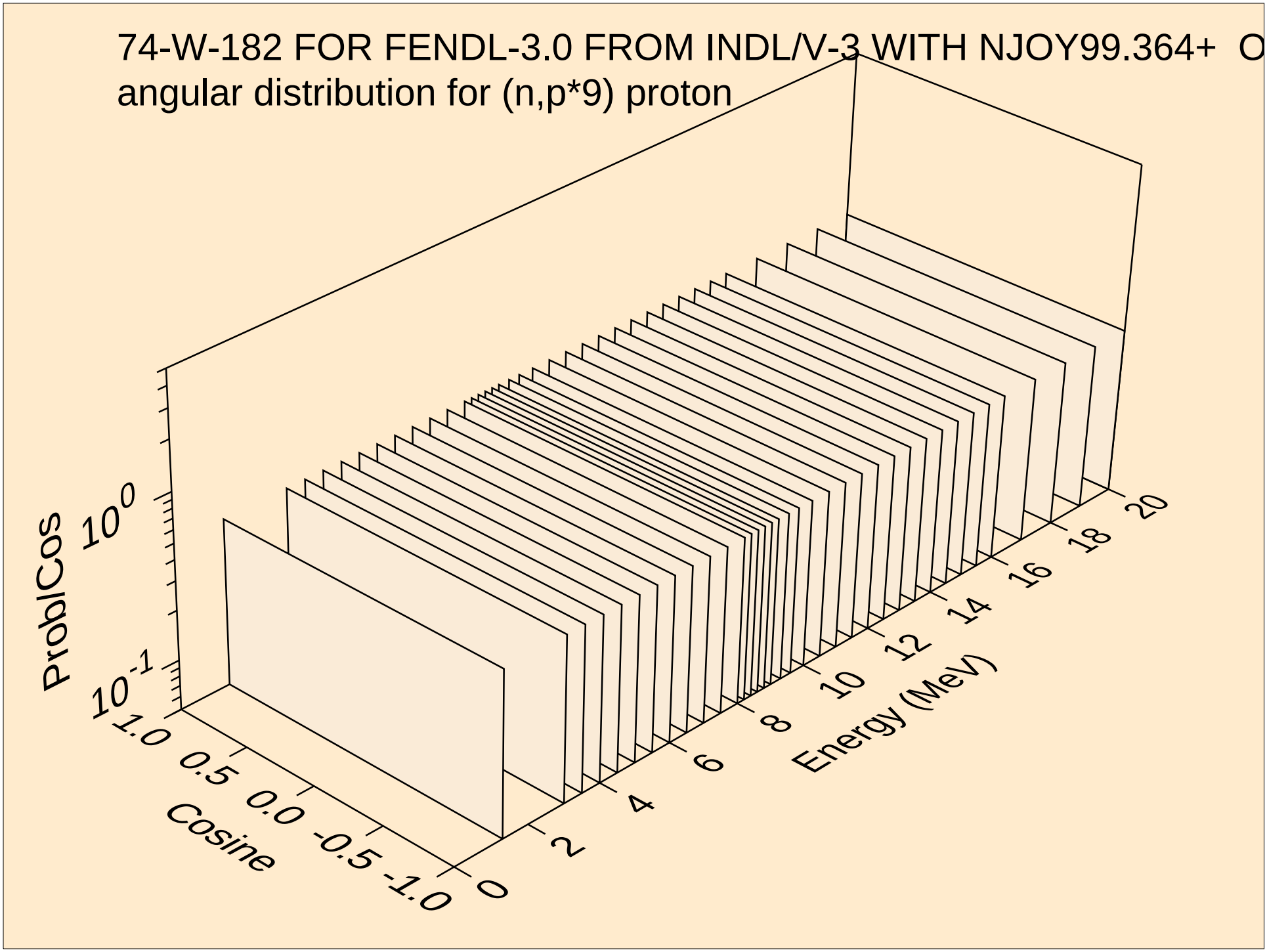

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*6) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

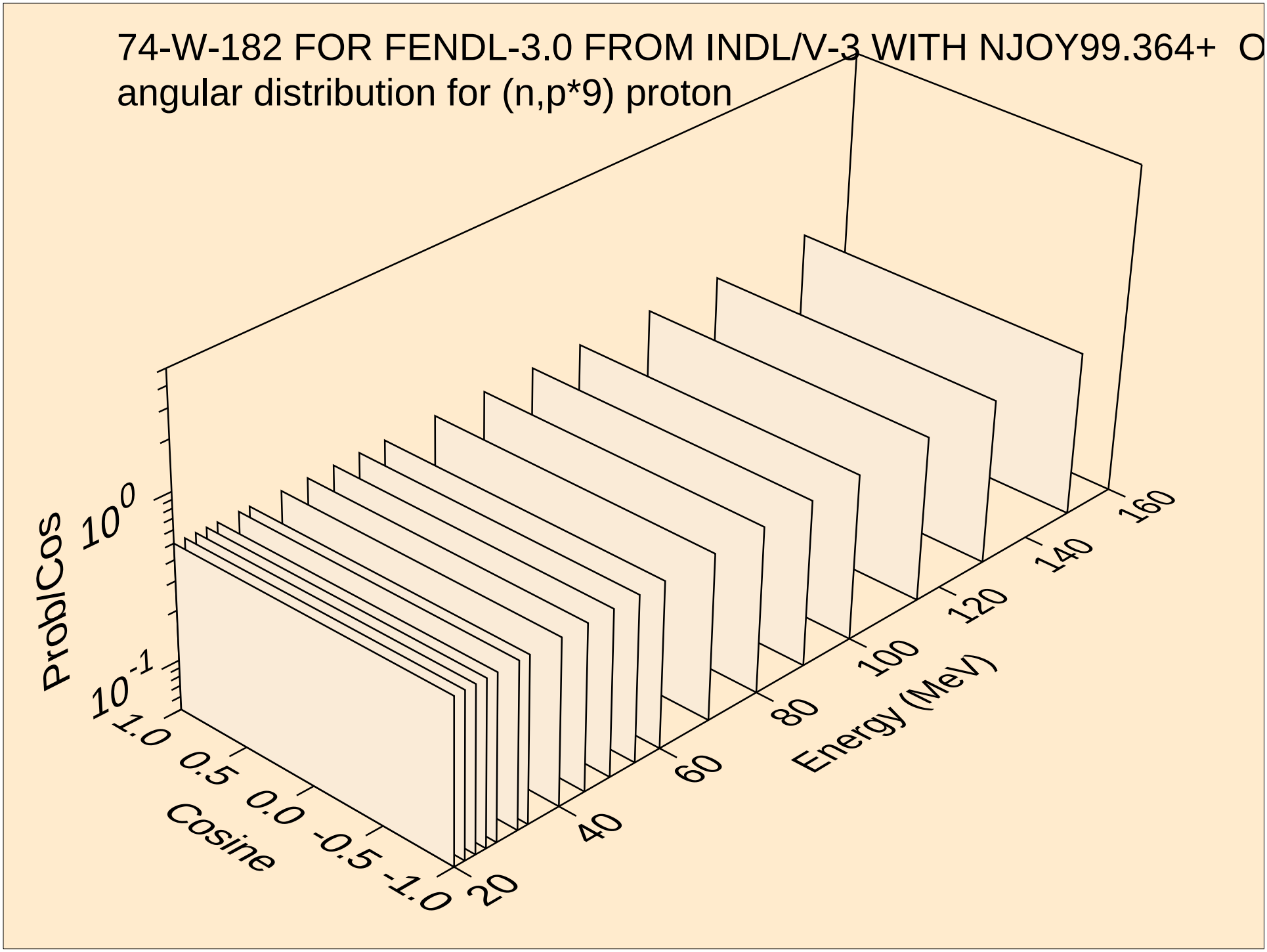

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*7) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

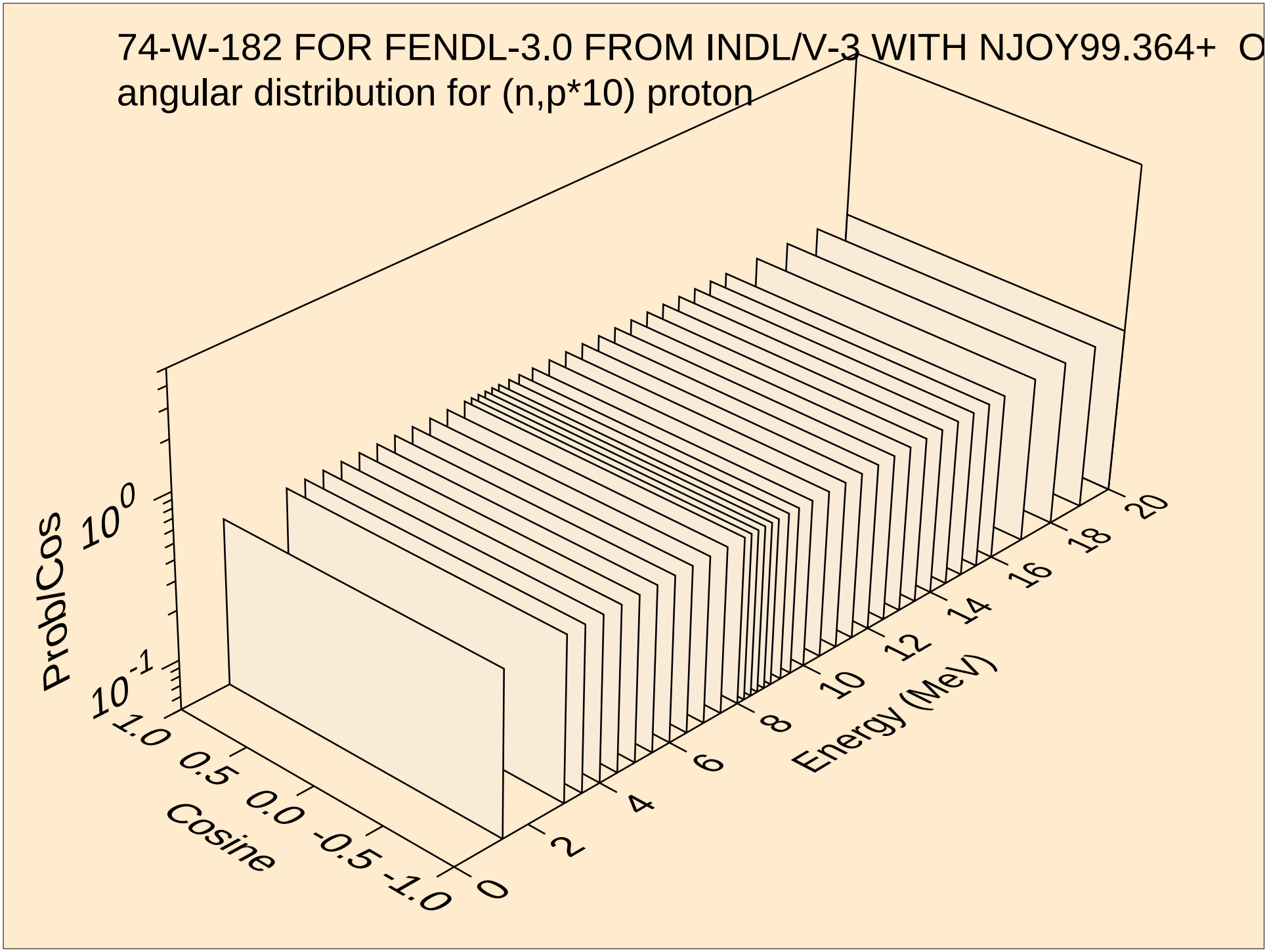

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*7) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

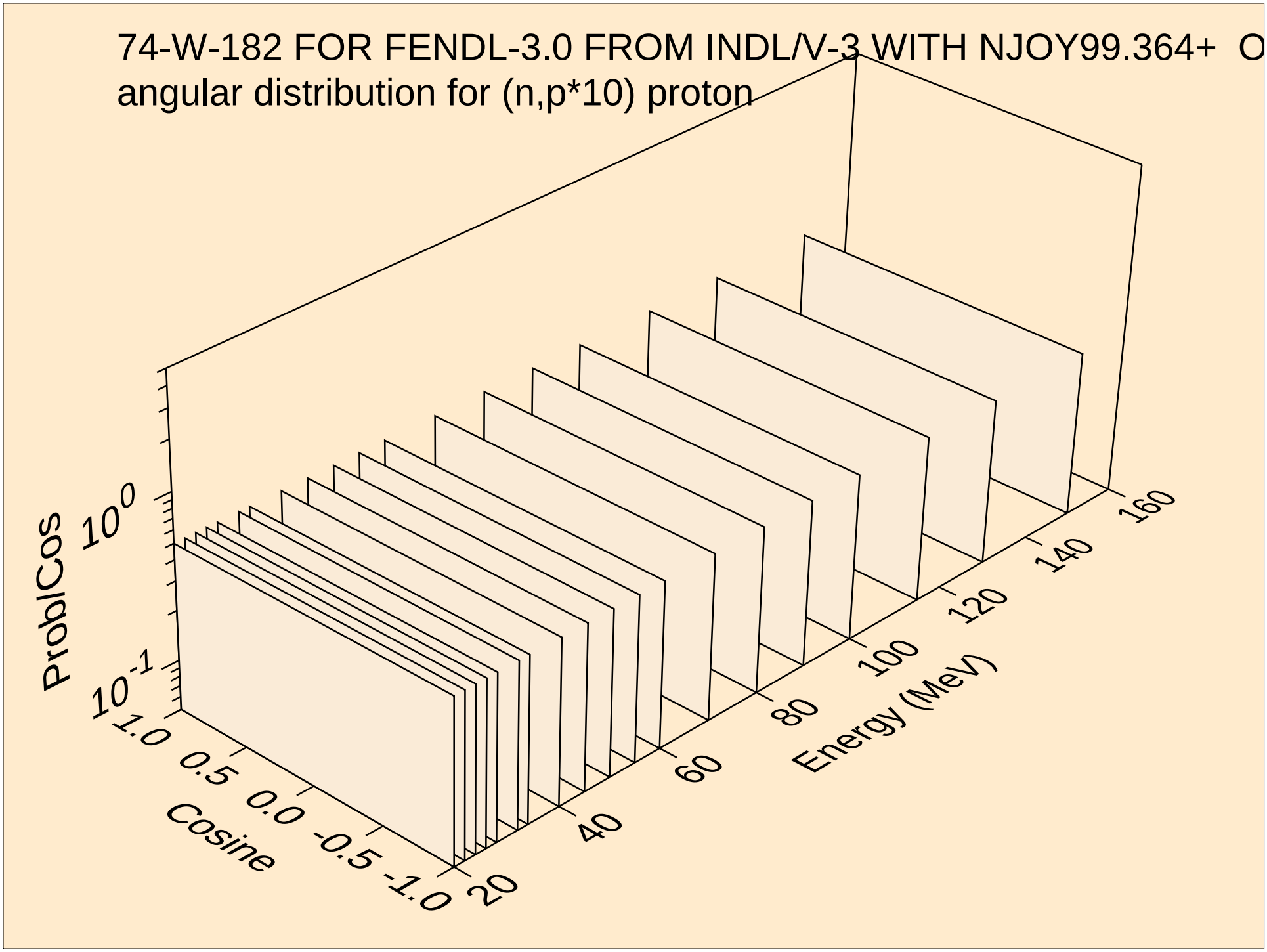

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*8) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

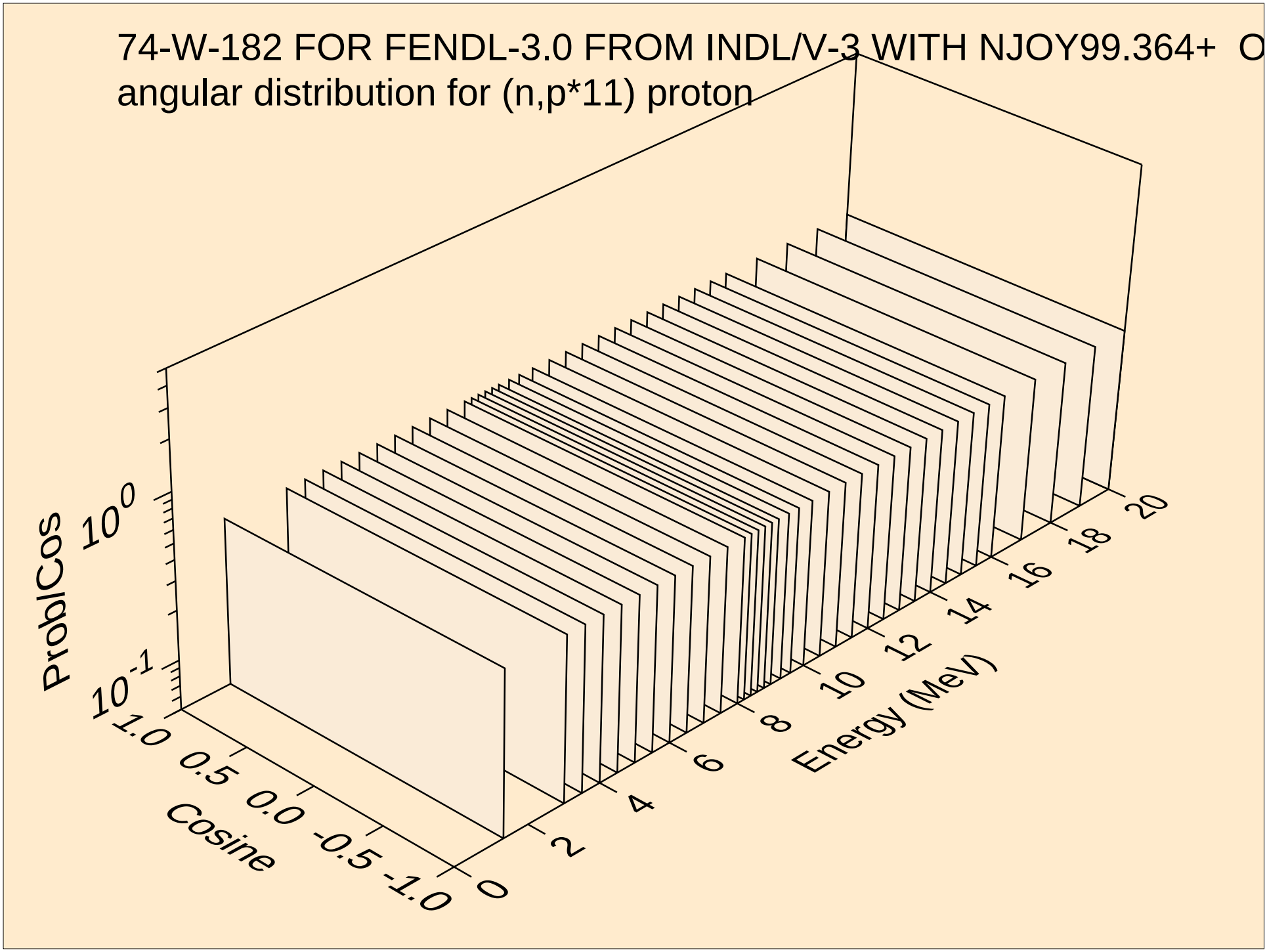

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*8) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

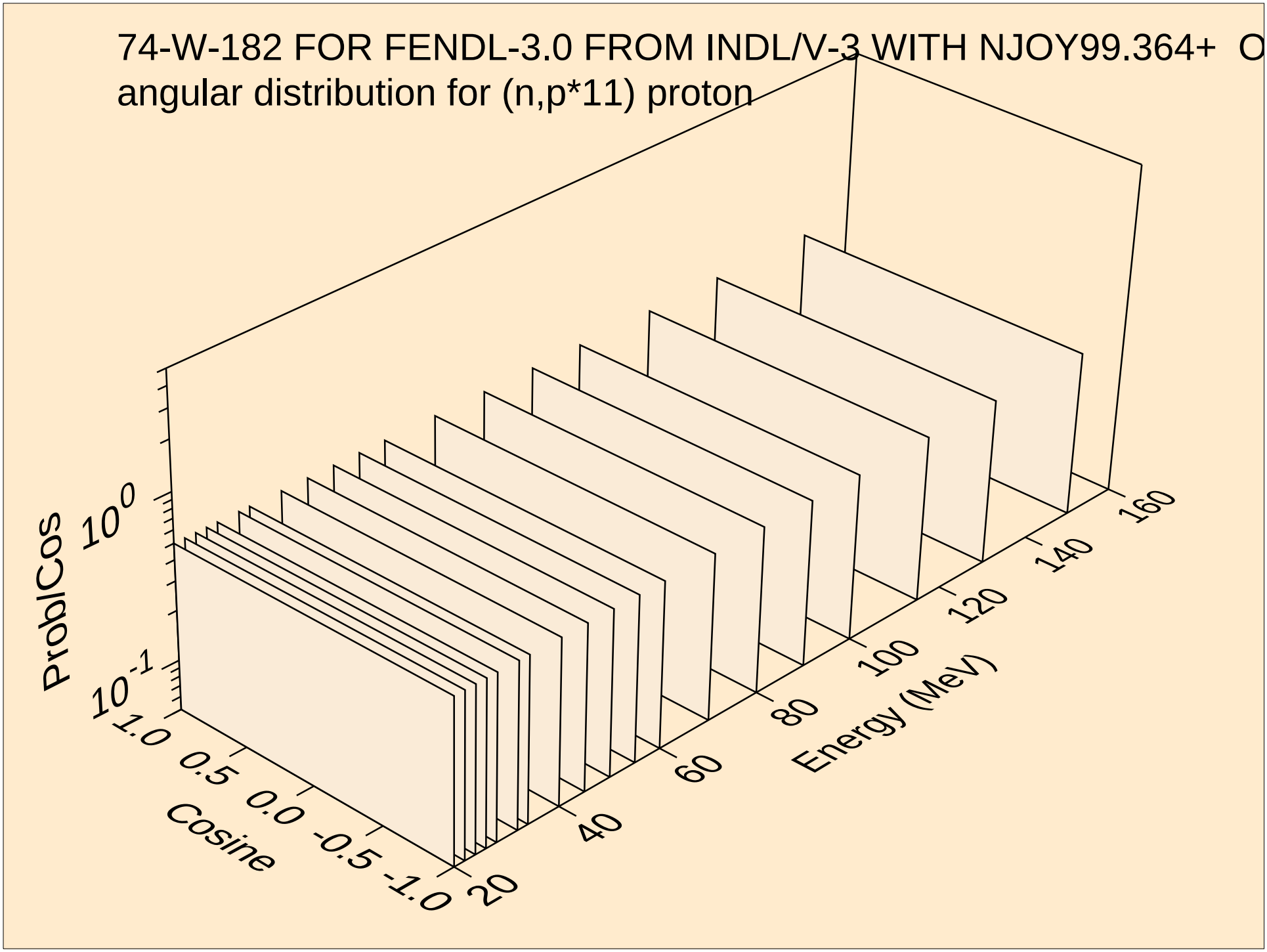

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*9) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

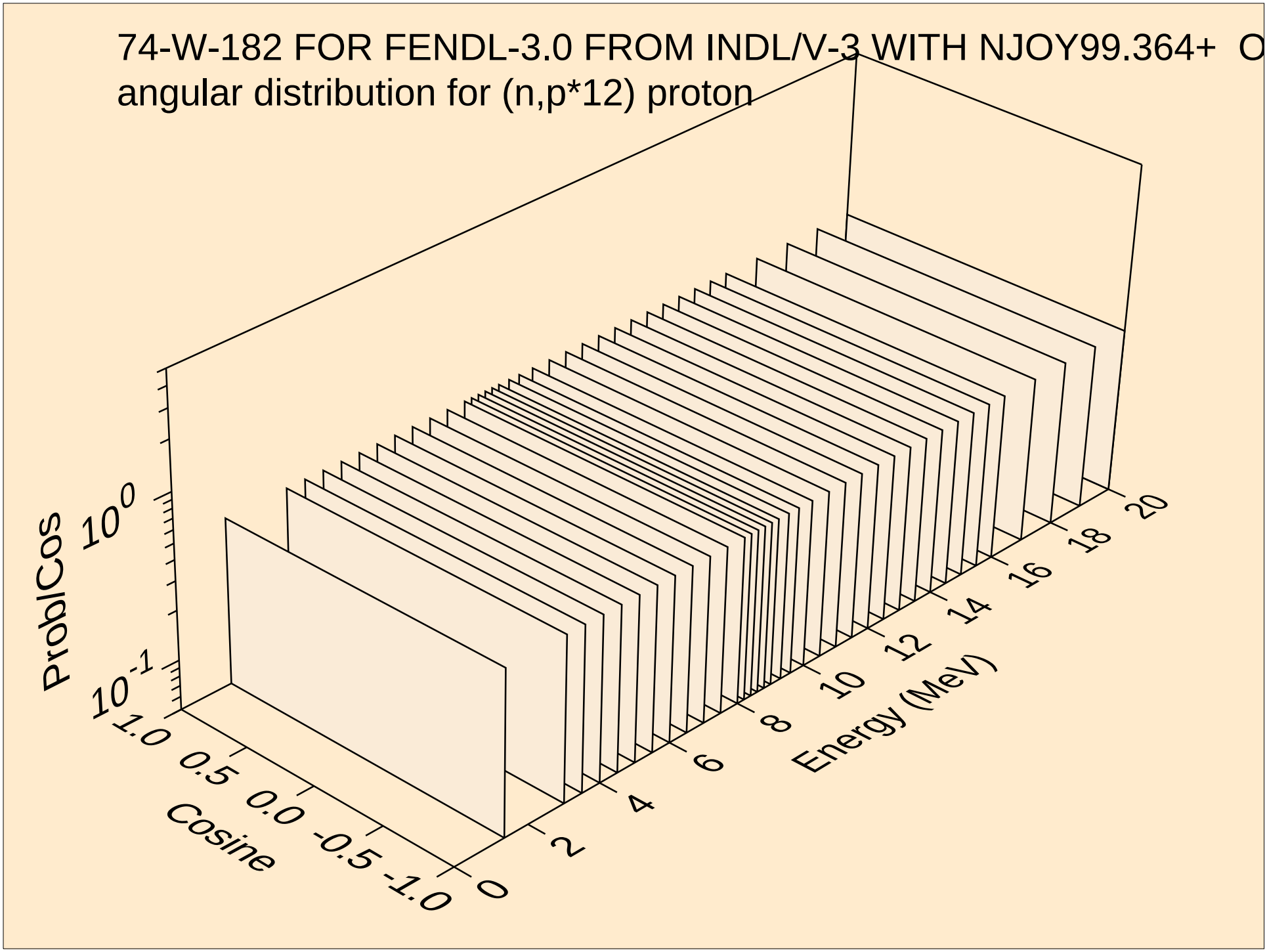

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*9) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

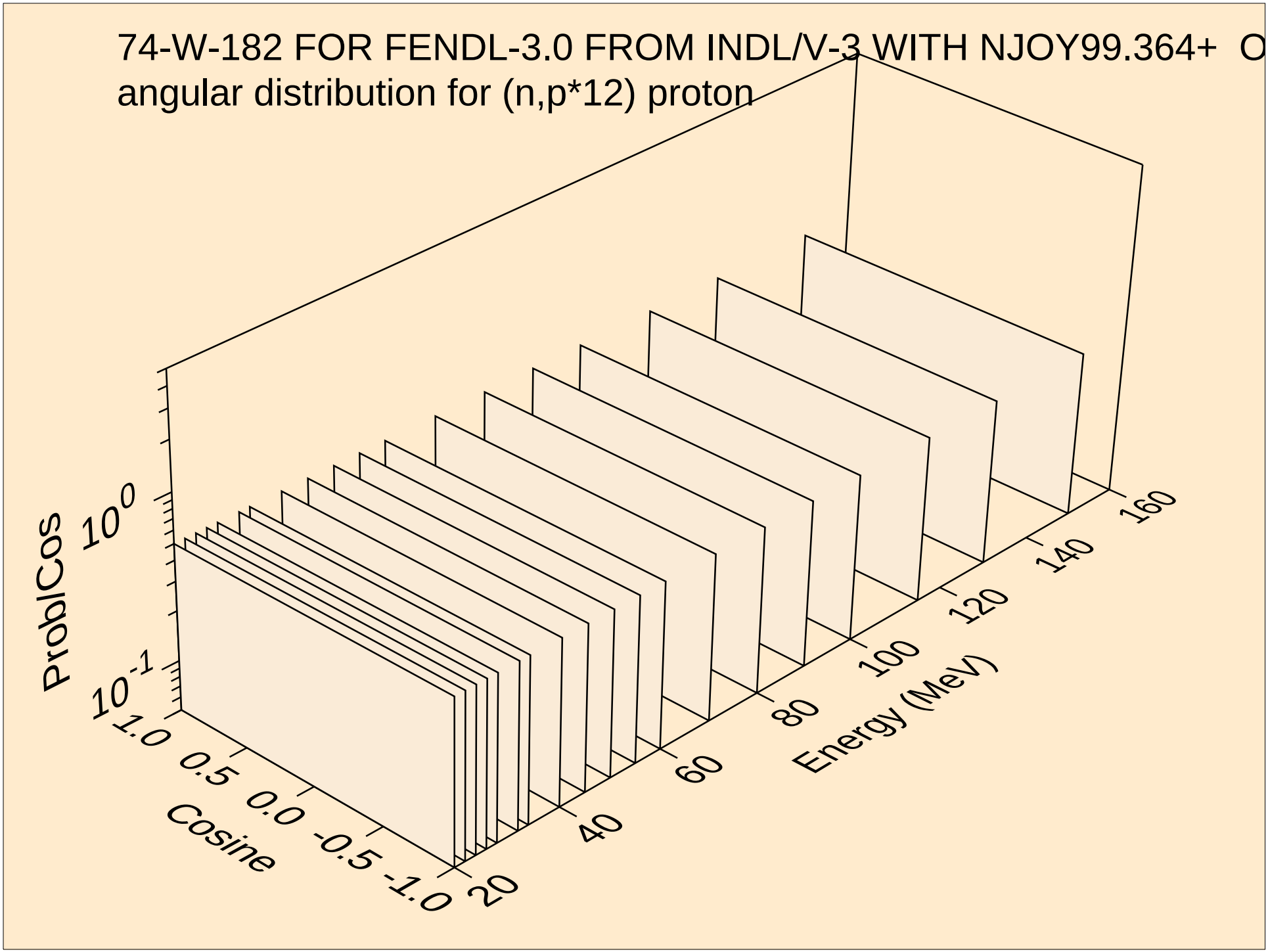

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*10) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

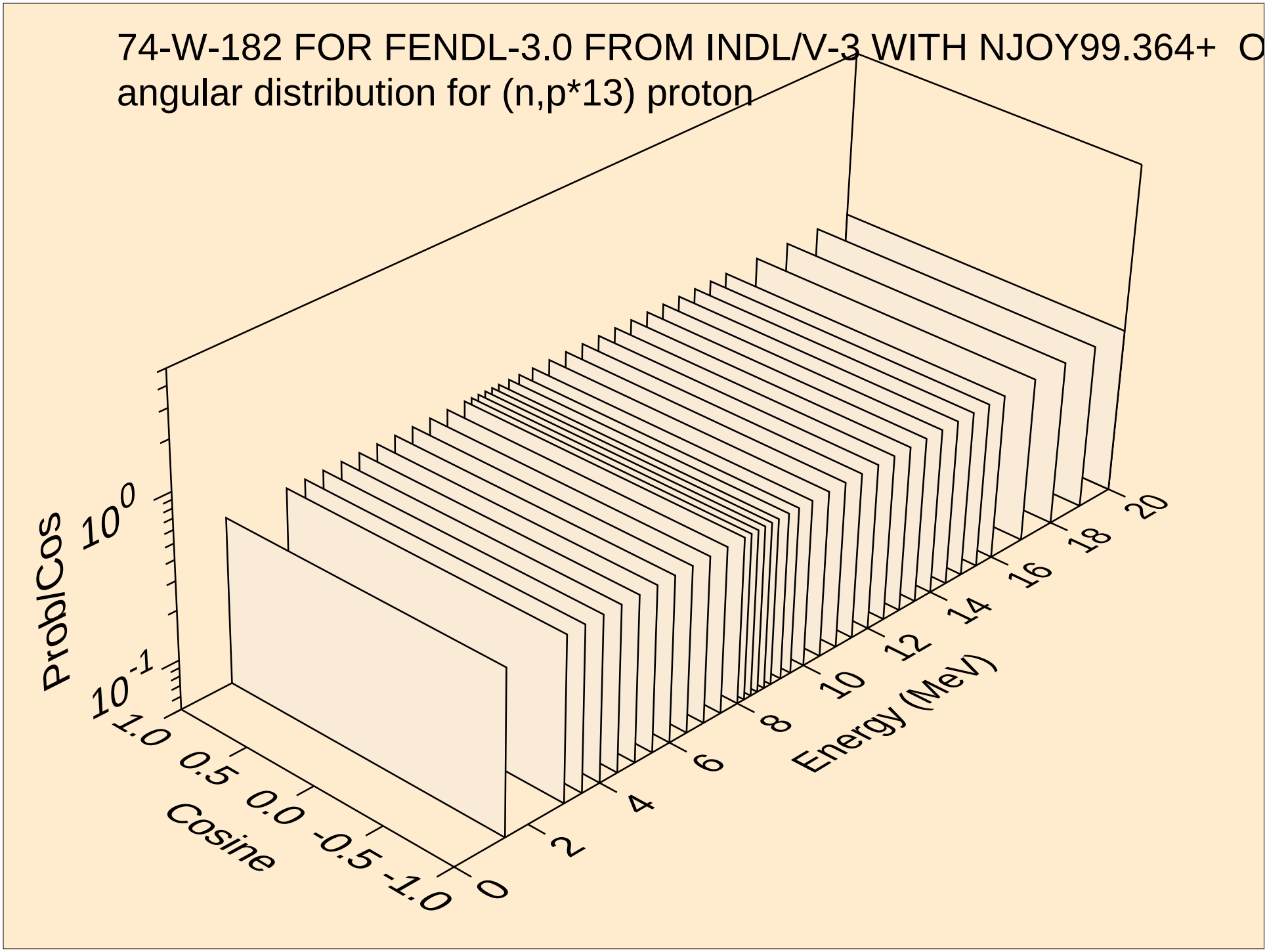

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*10) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

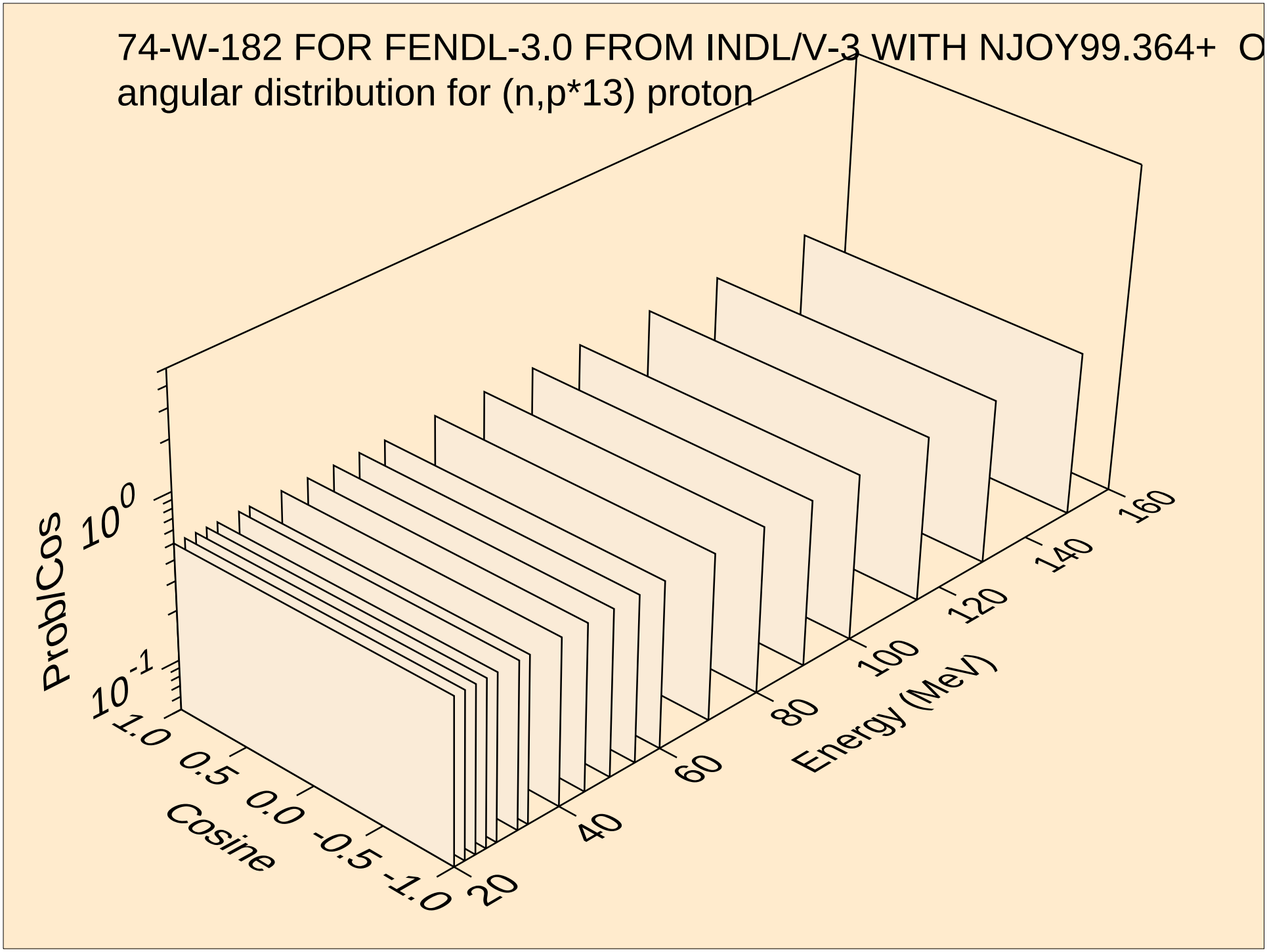

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*11) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

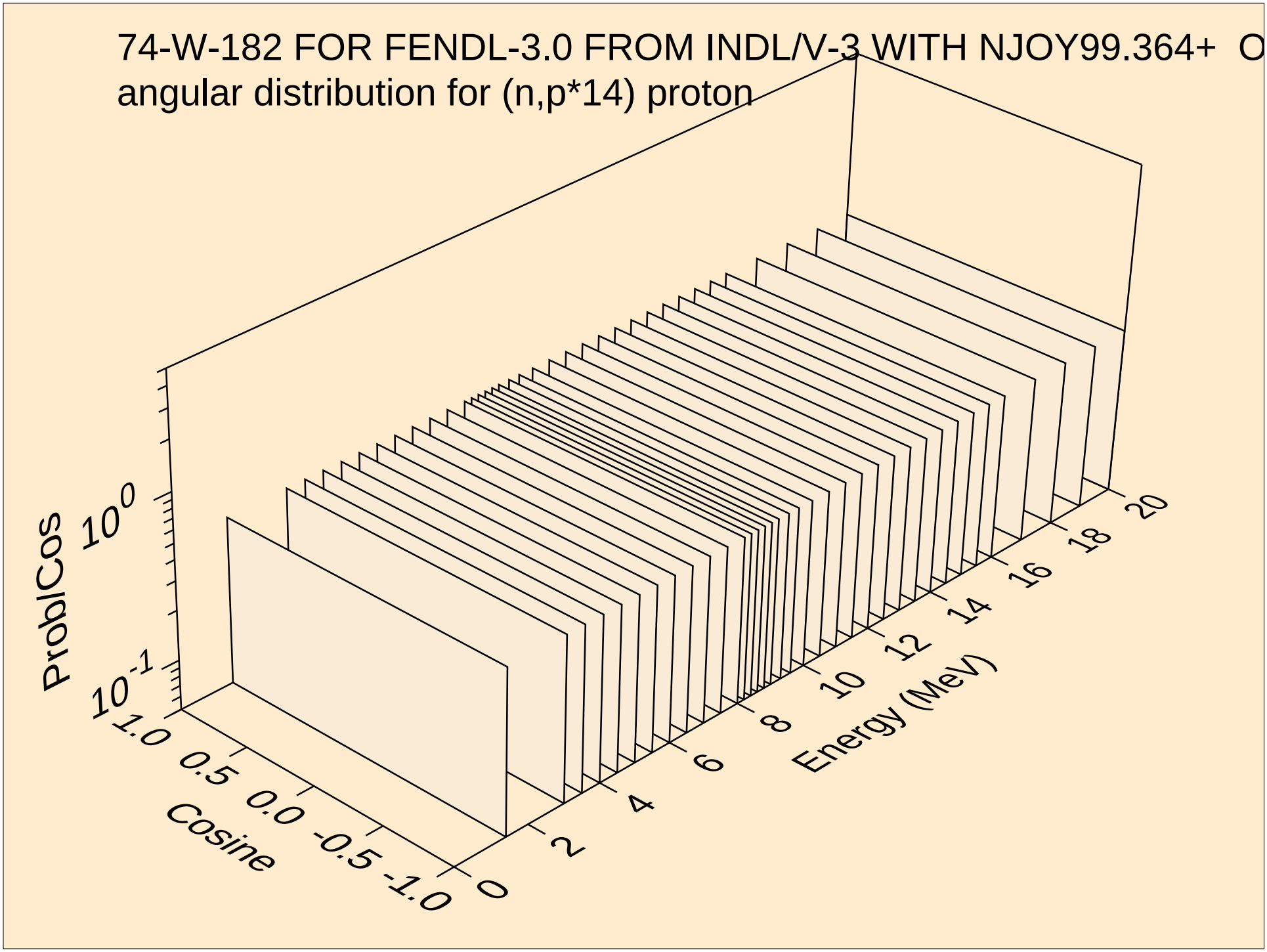

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*11) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

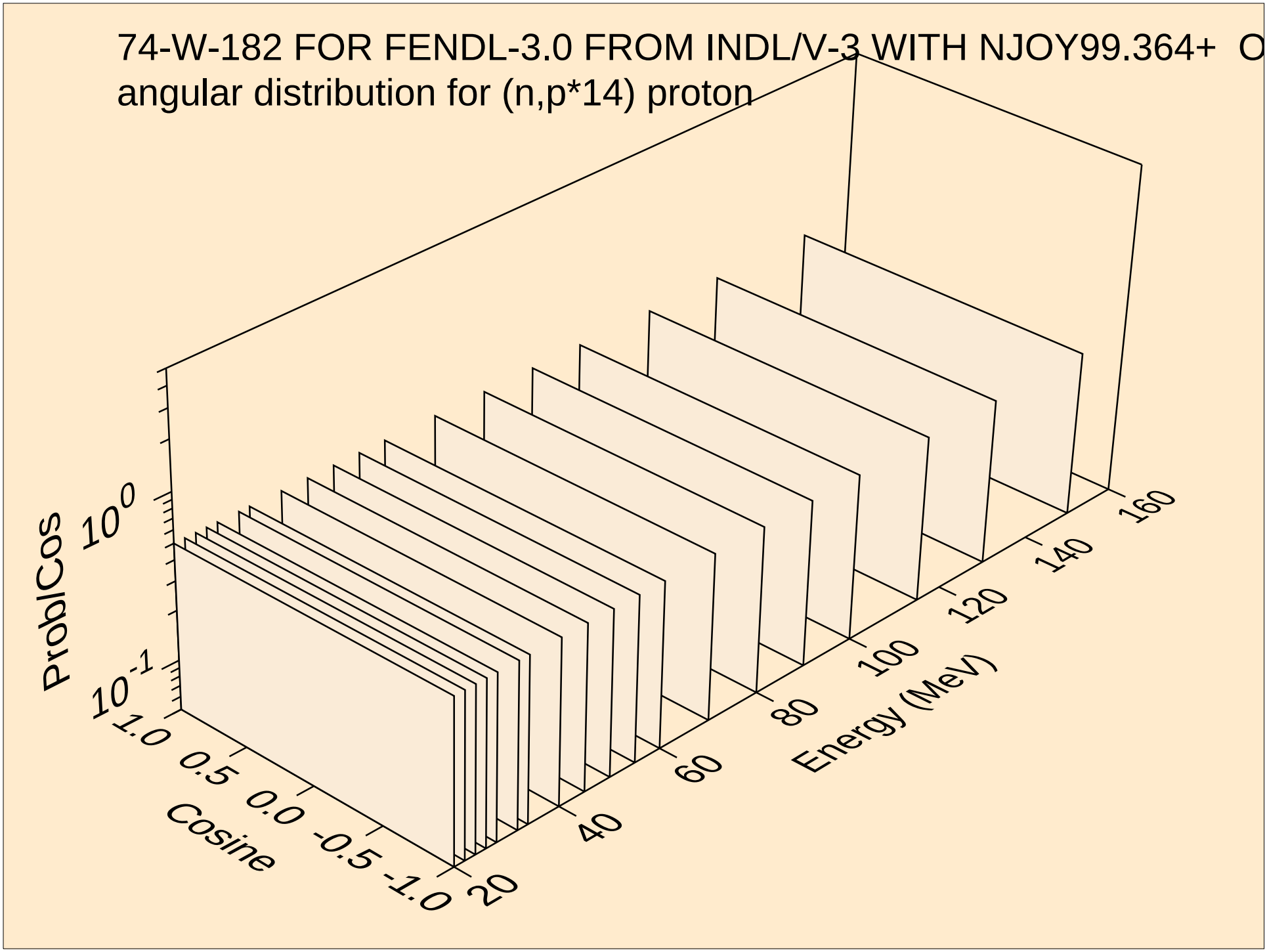

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*12) proton
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

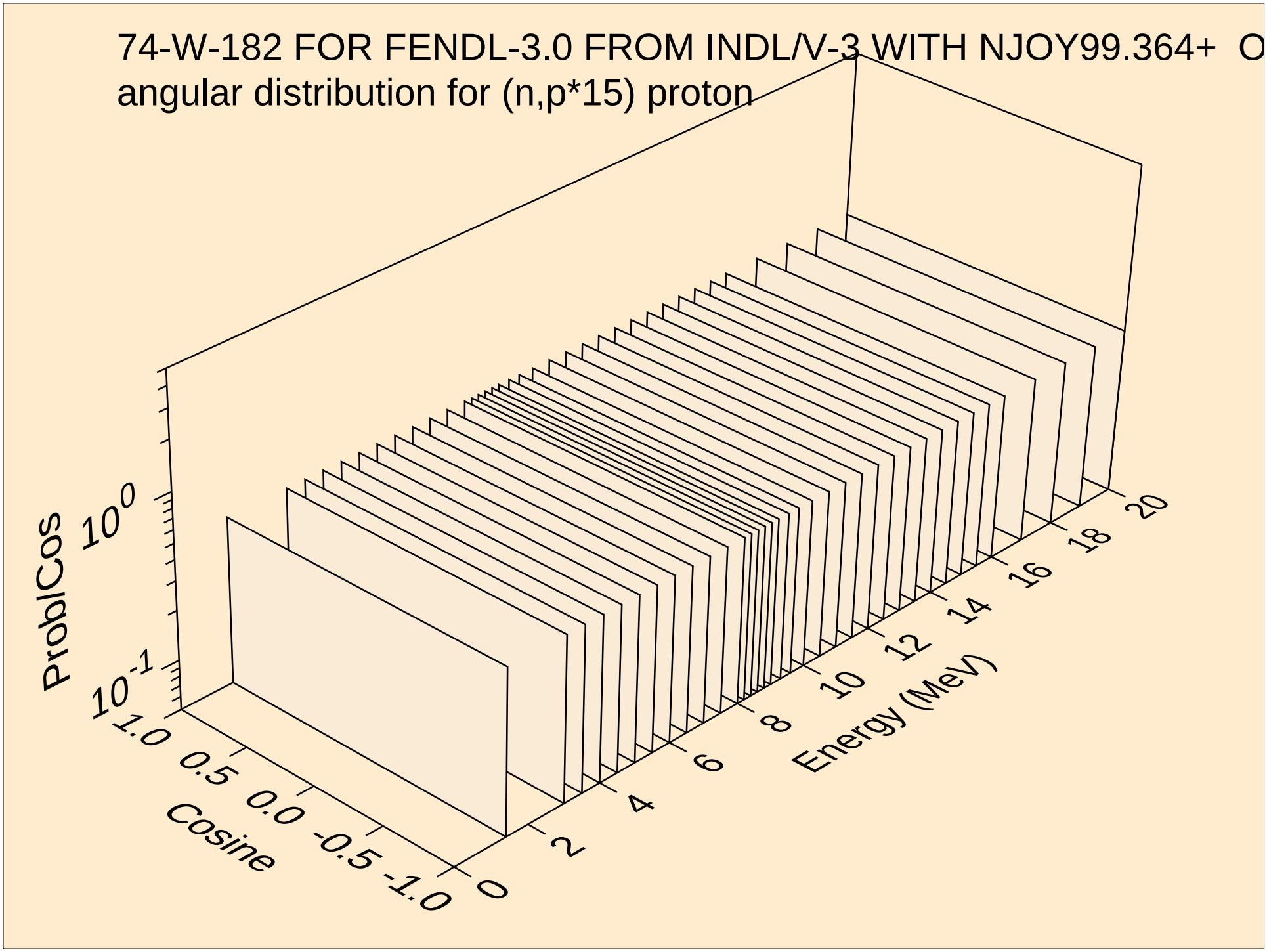

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*12) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

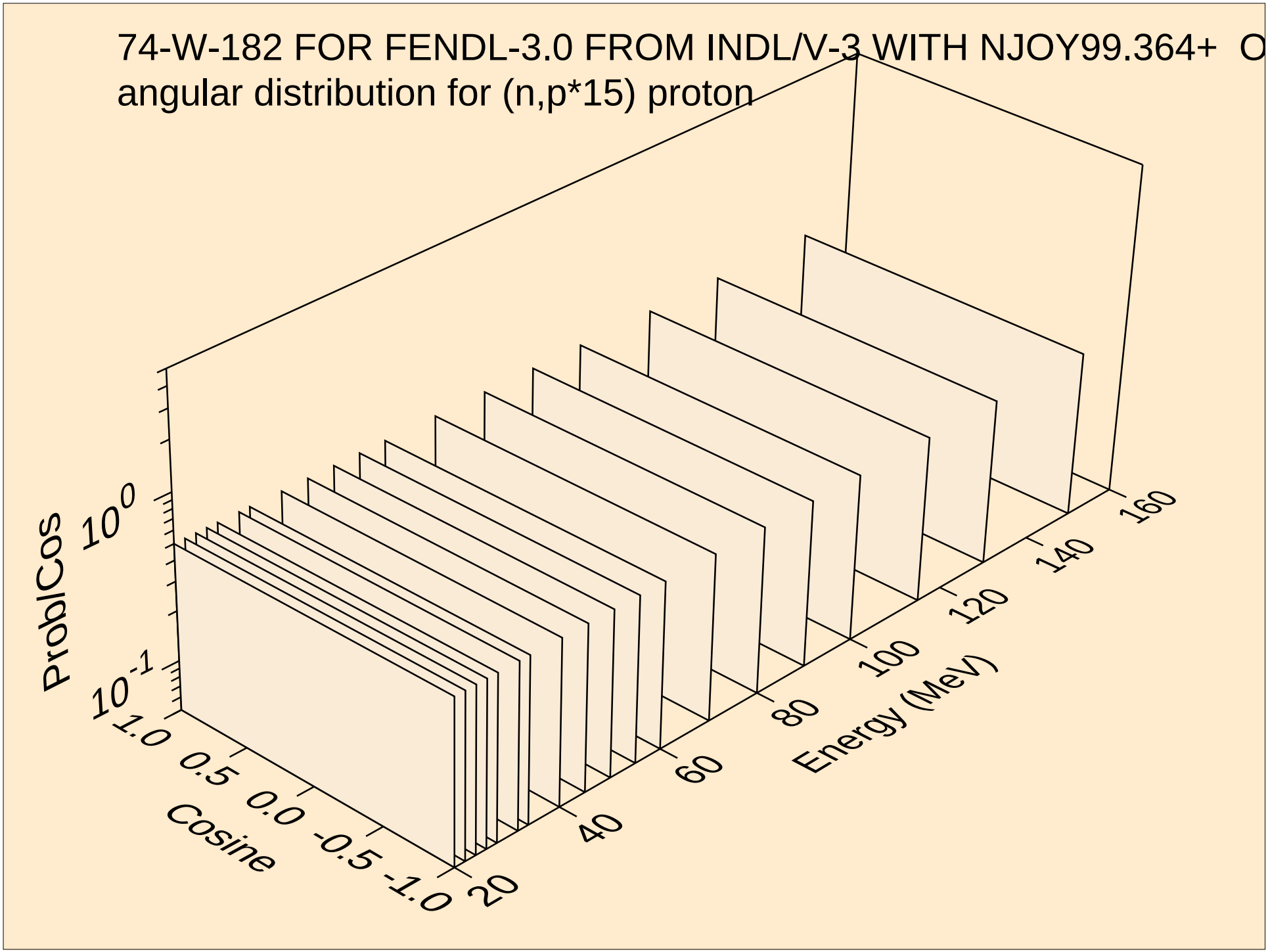

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*13) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

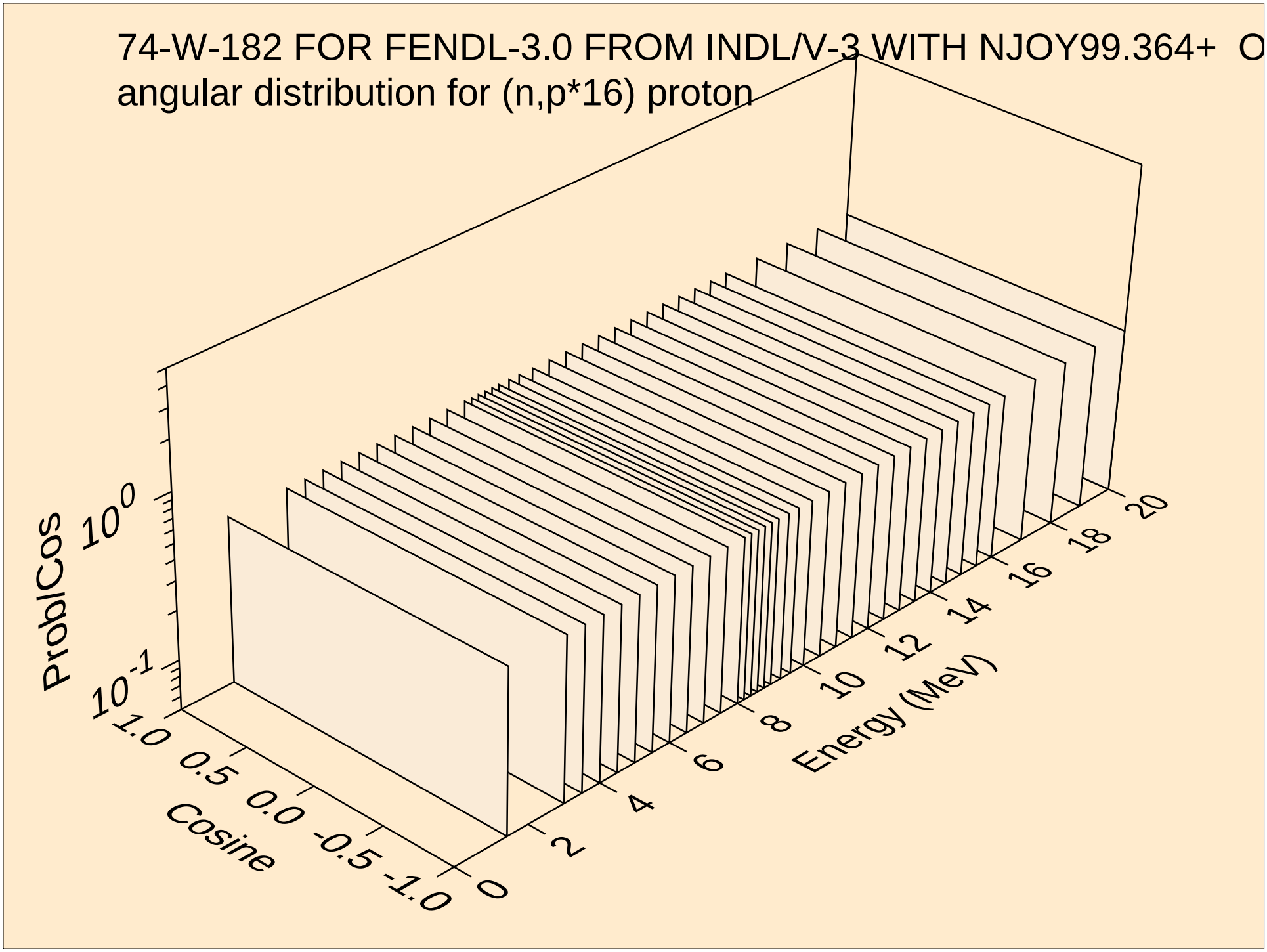

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*13) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

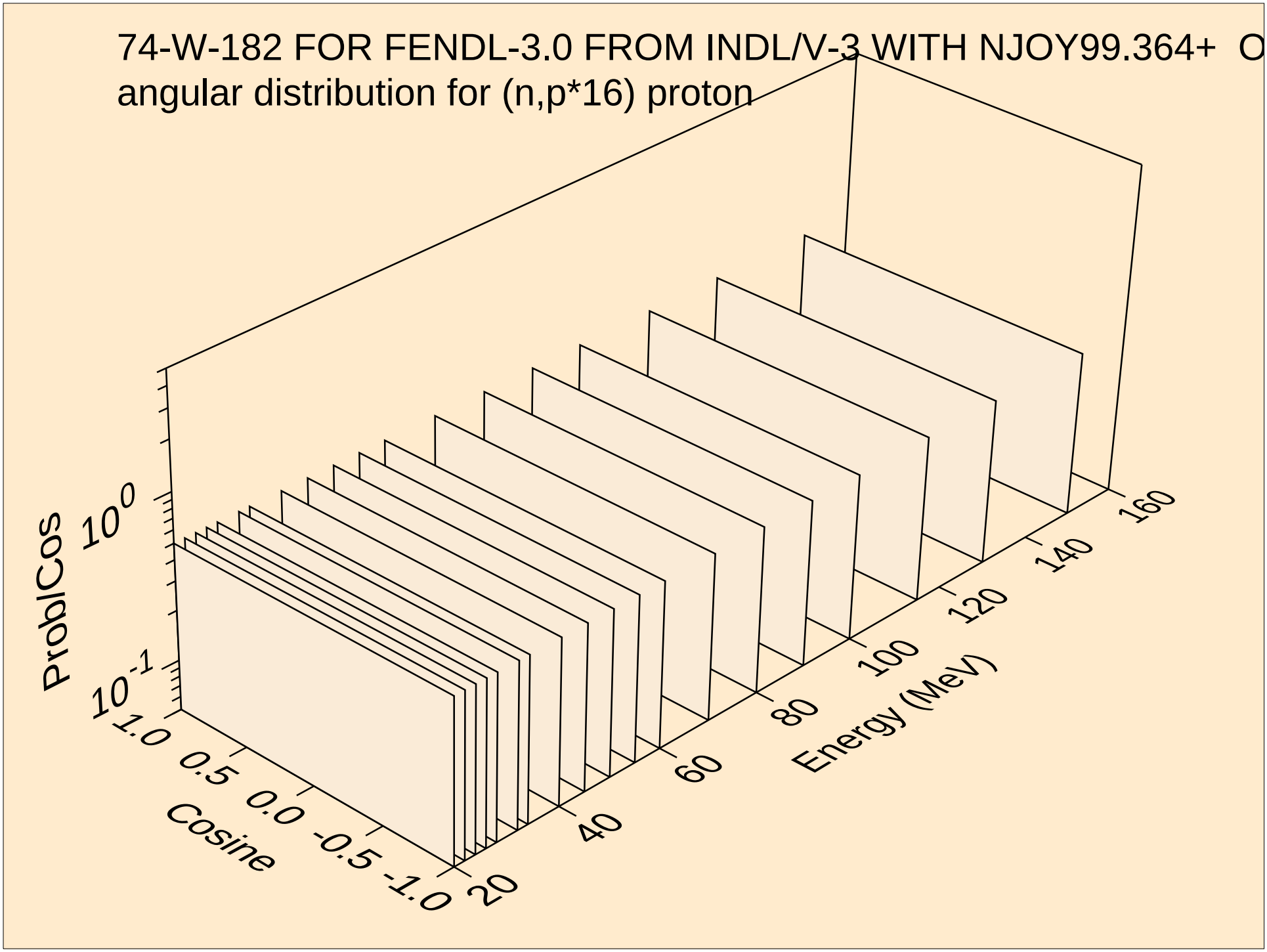

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*14) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

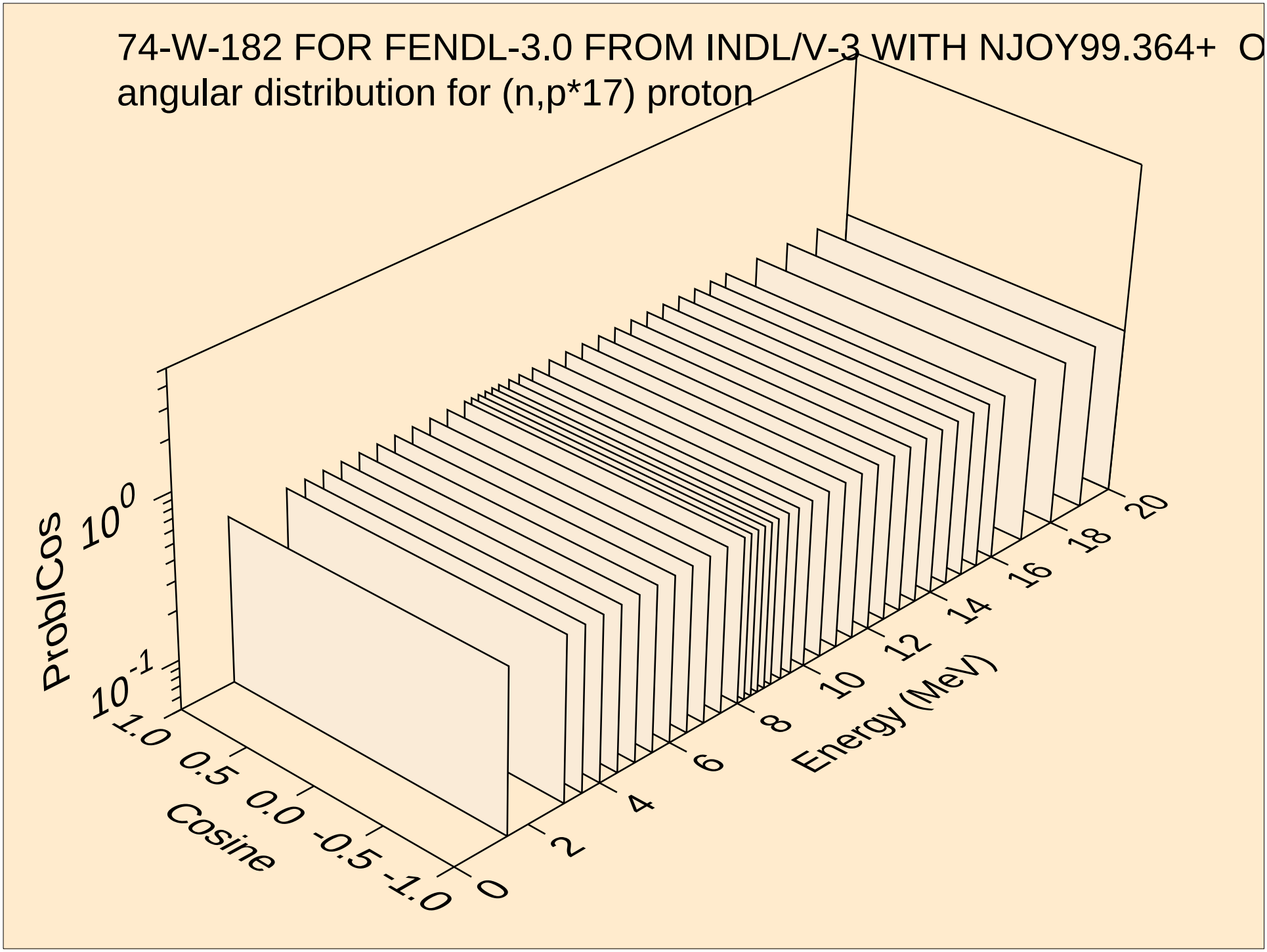

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*14) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

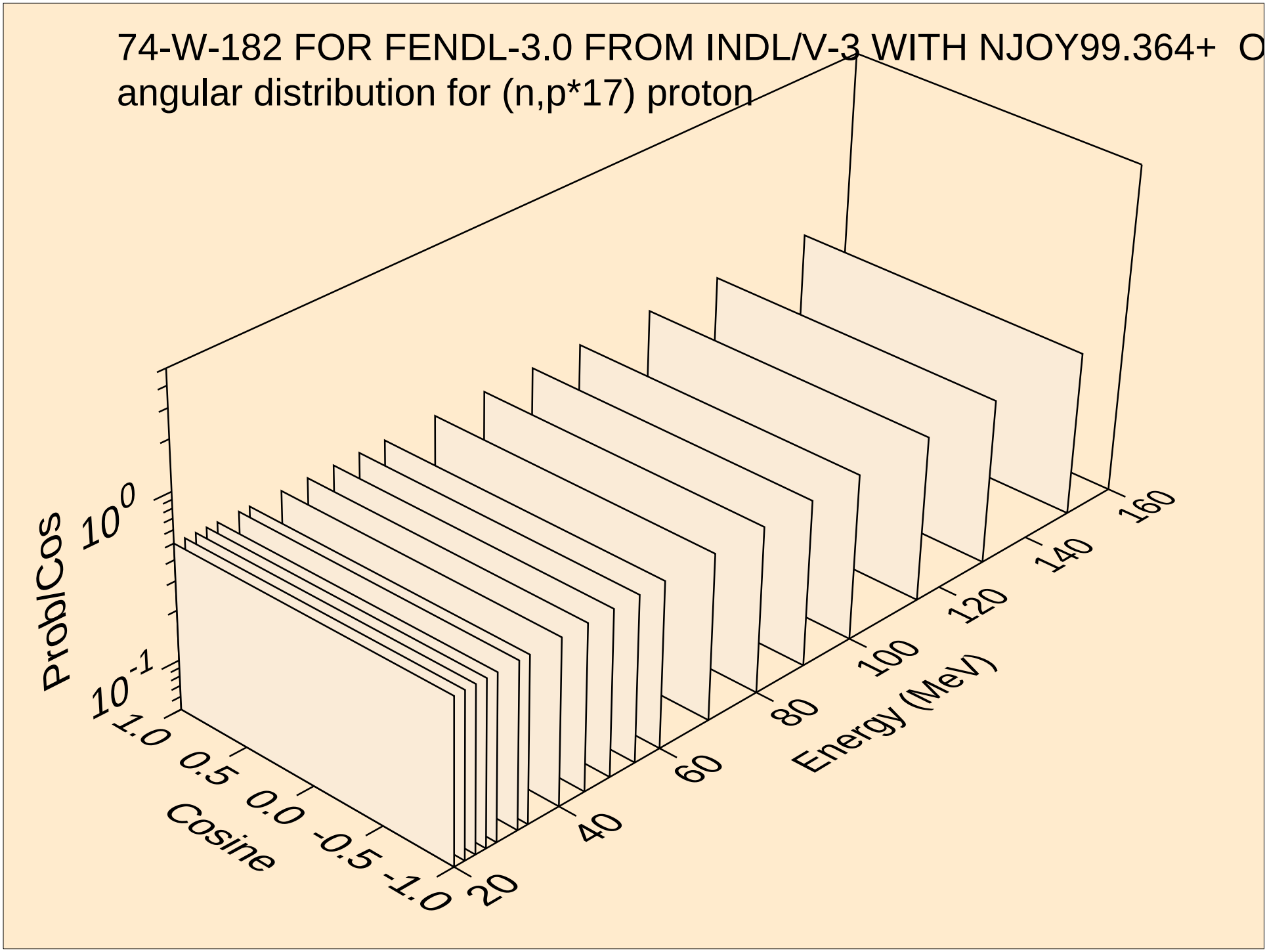

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*15) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

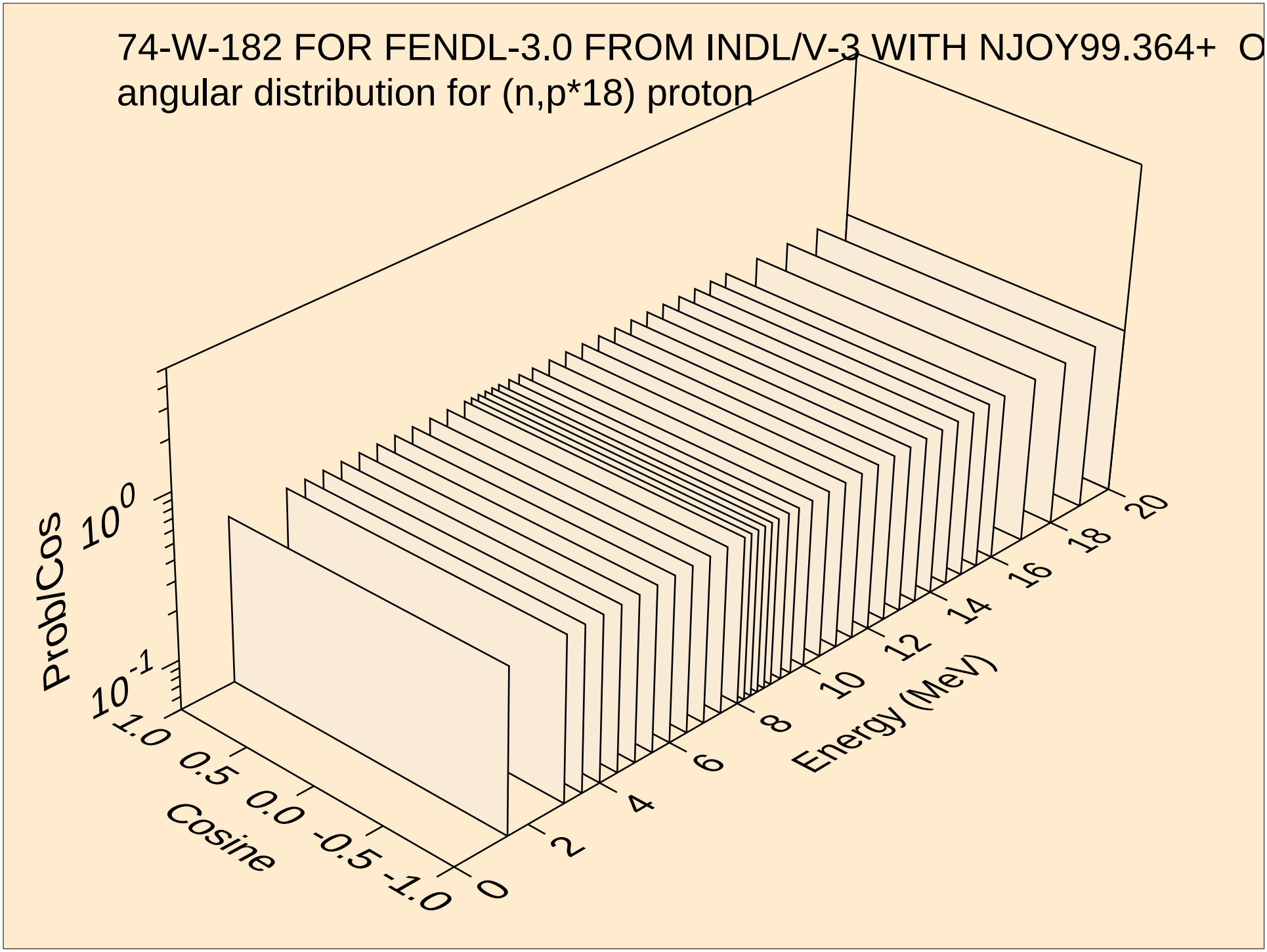

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*15) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

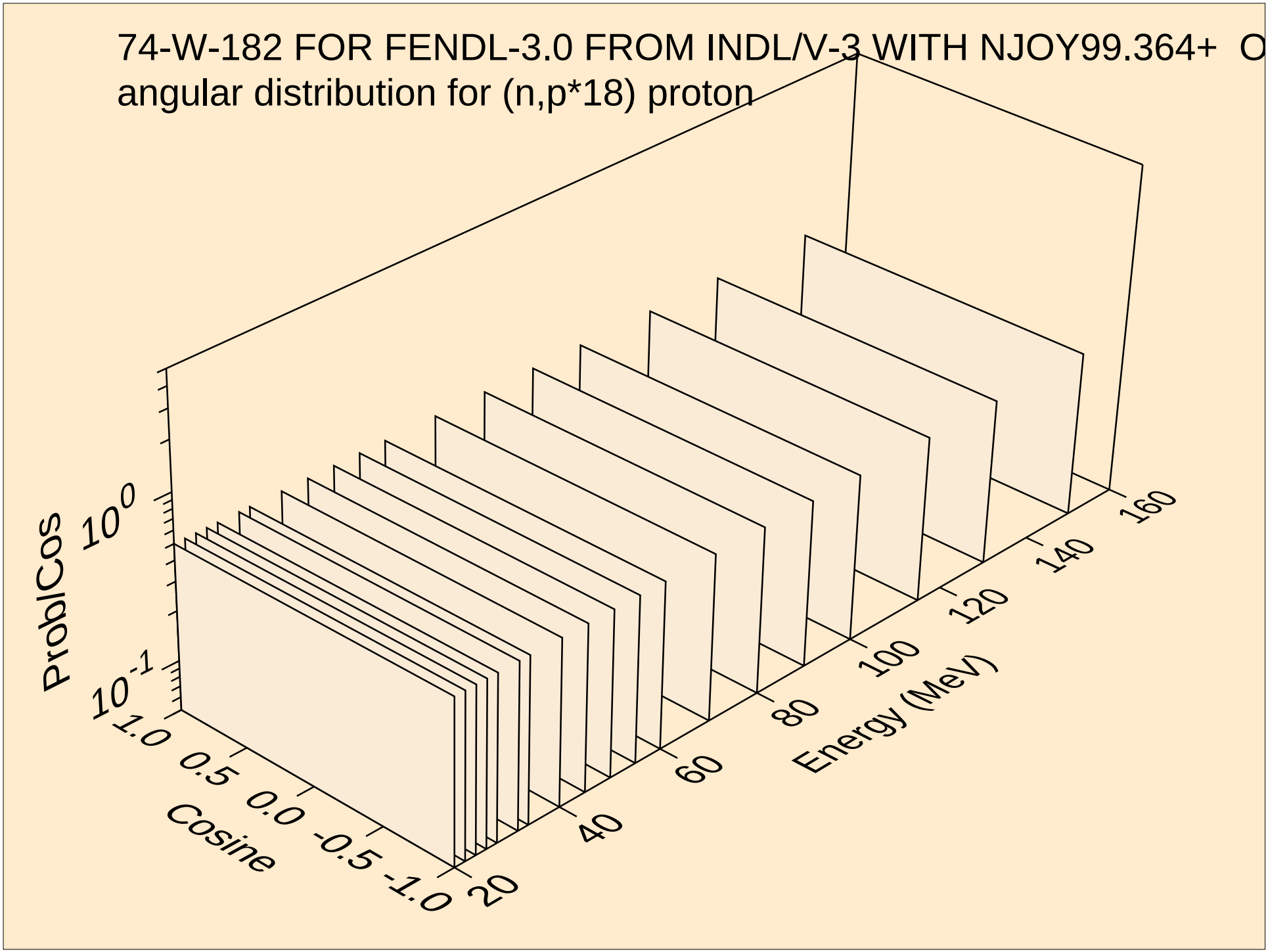

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*16) proton
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

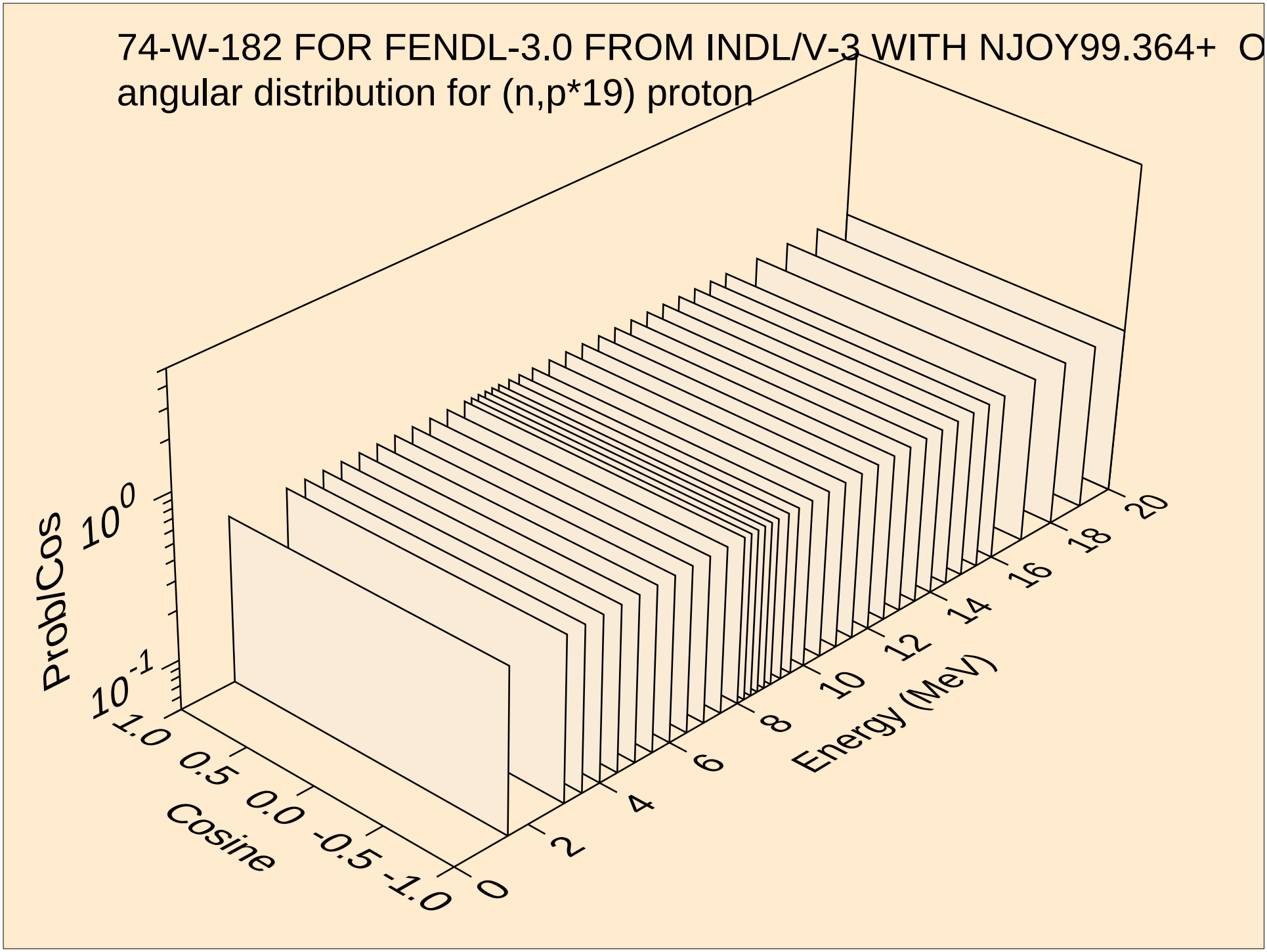

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*16) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

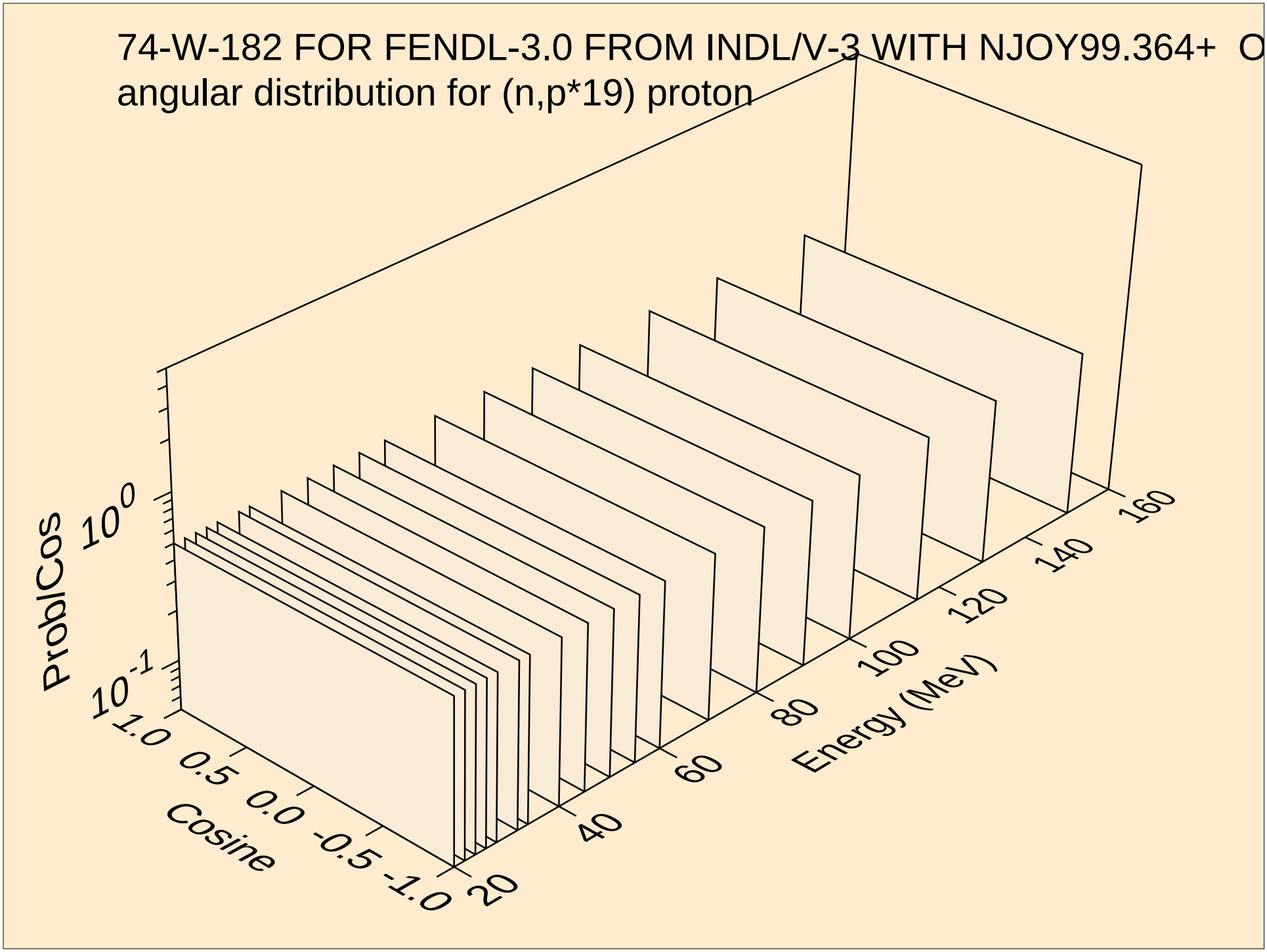

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*17) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

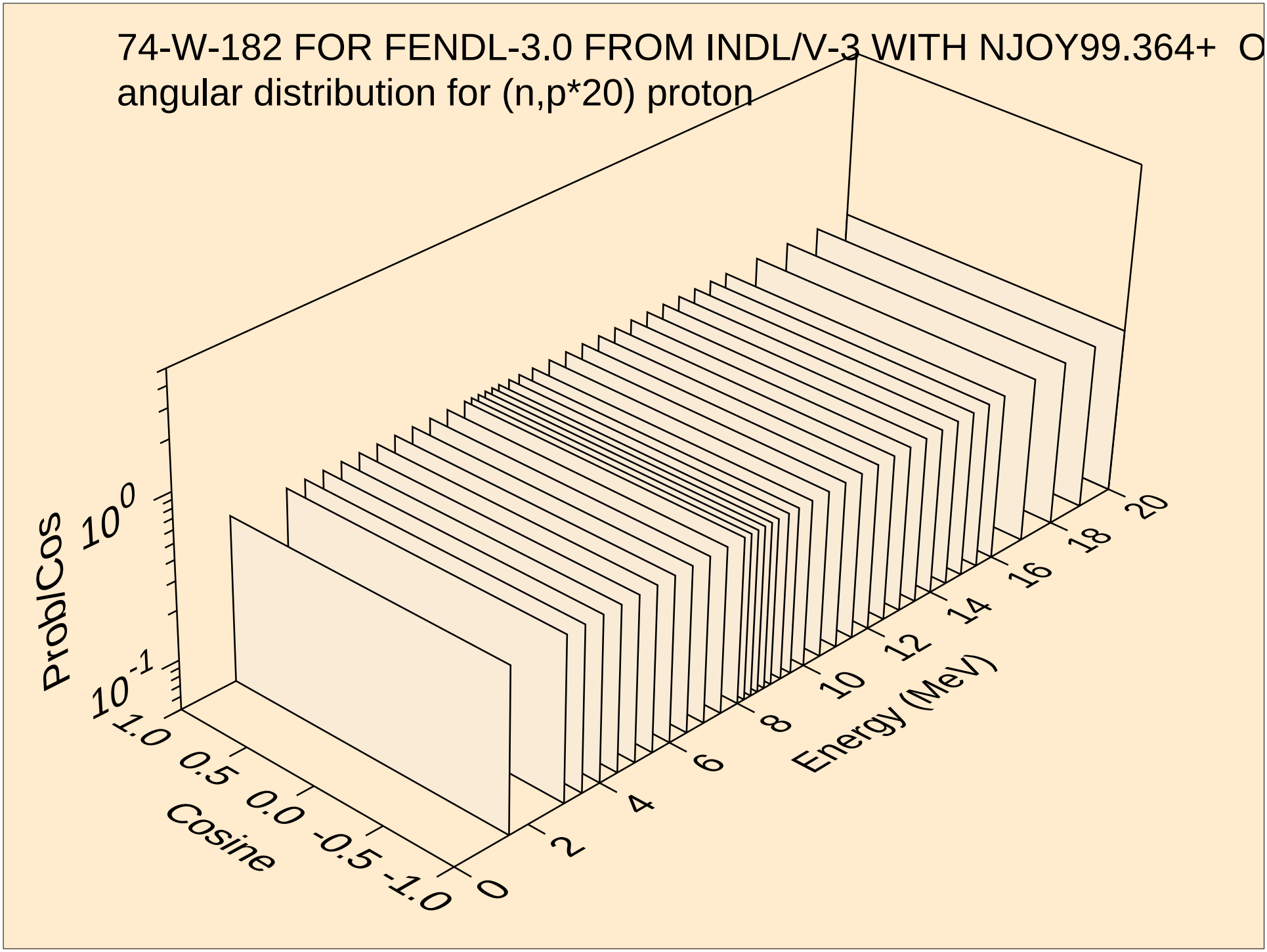

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*17) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

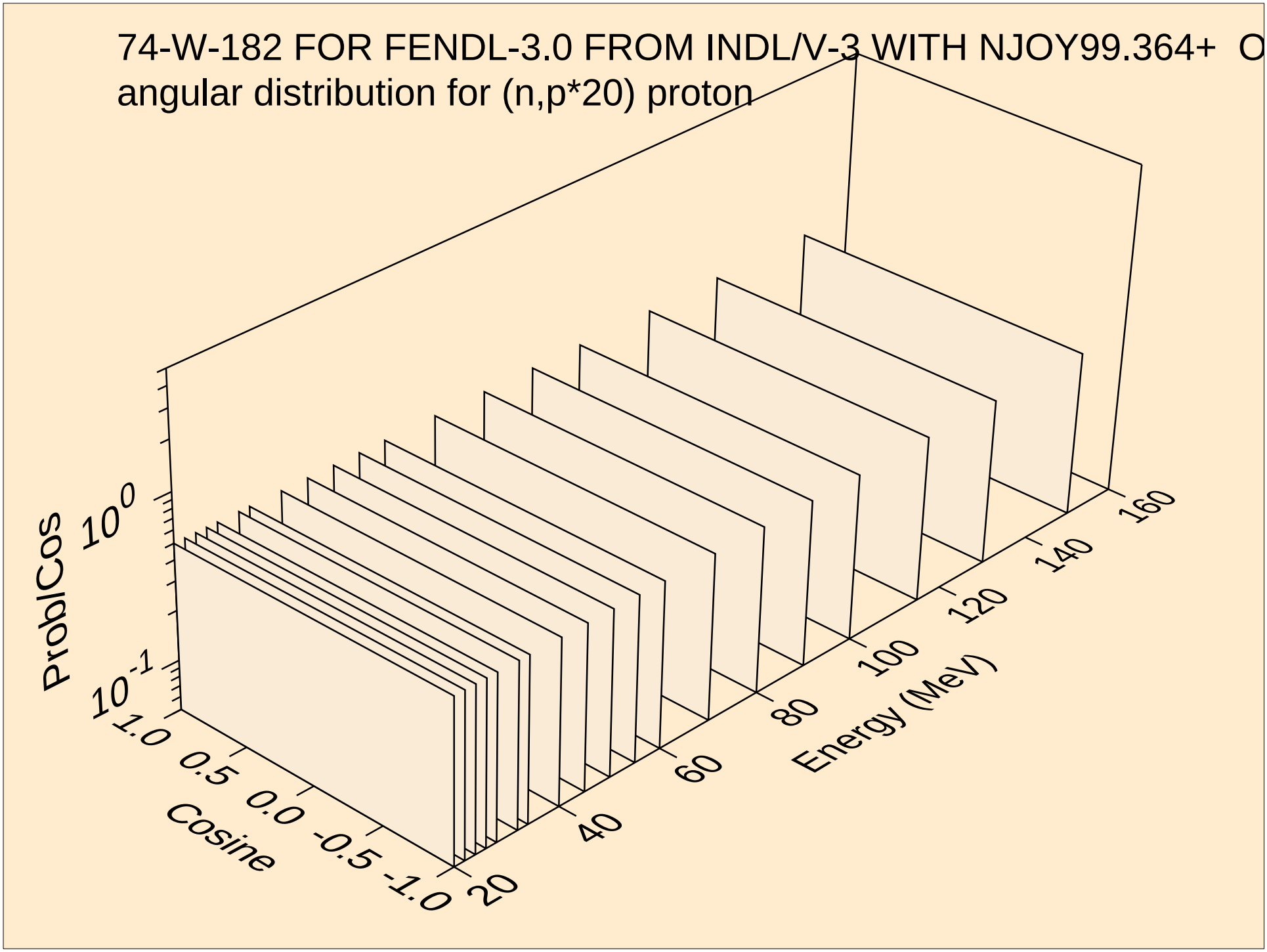

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*18) proton
ProblCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

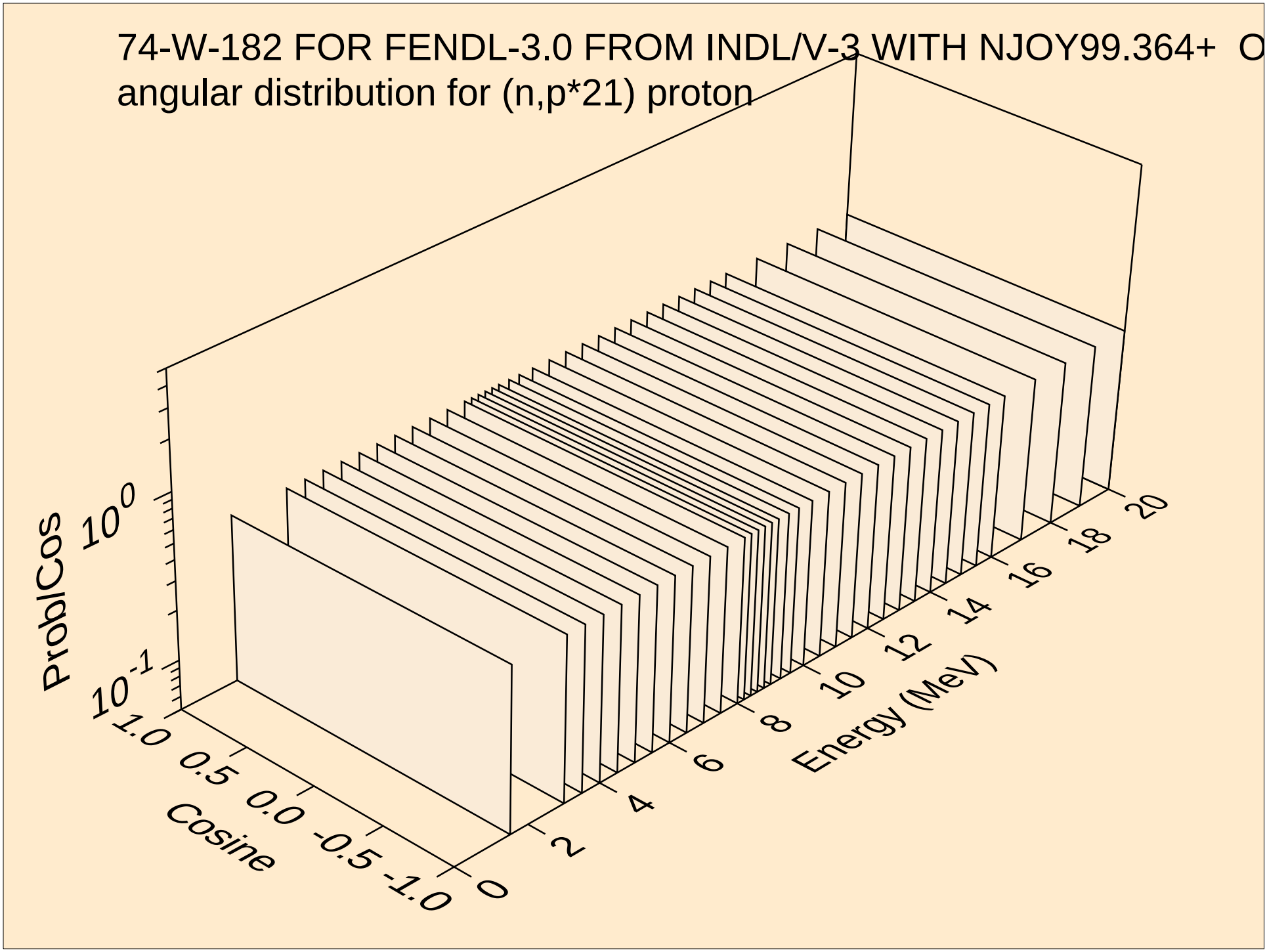

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*18) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

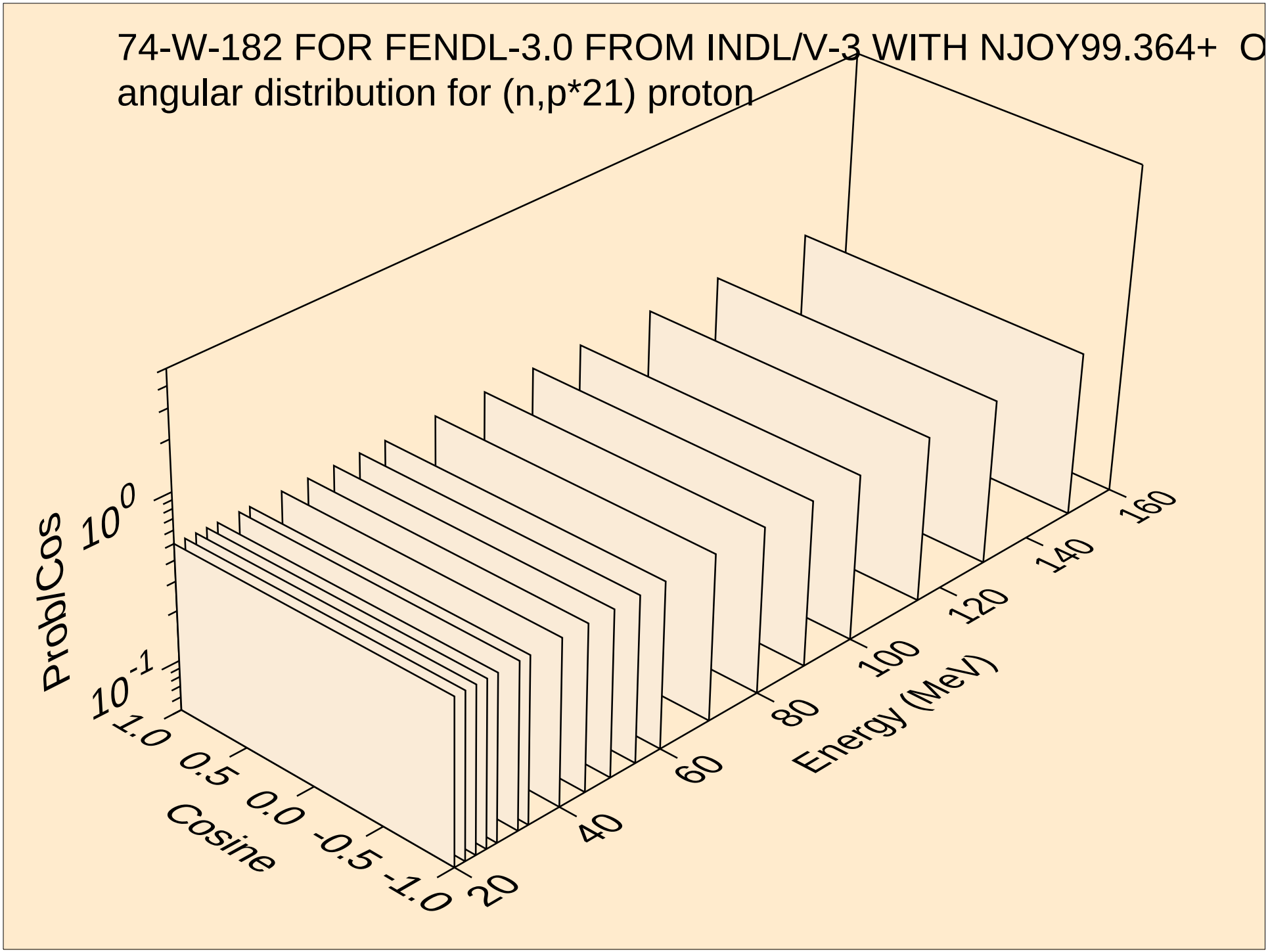

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*19) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

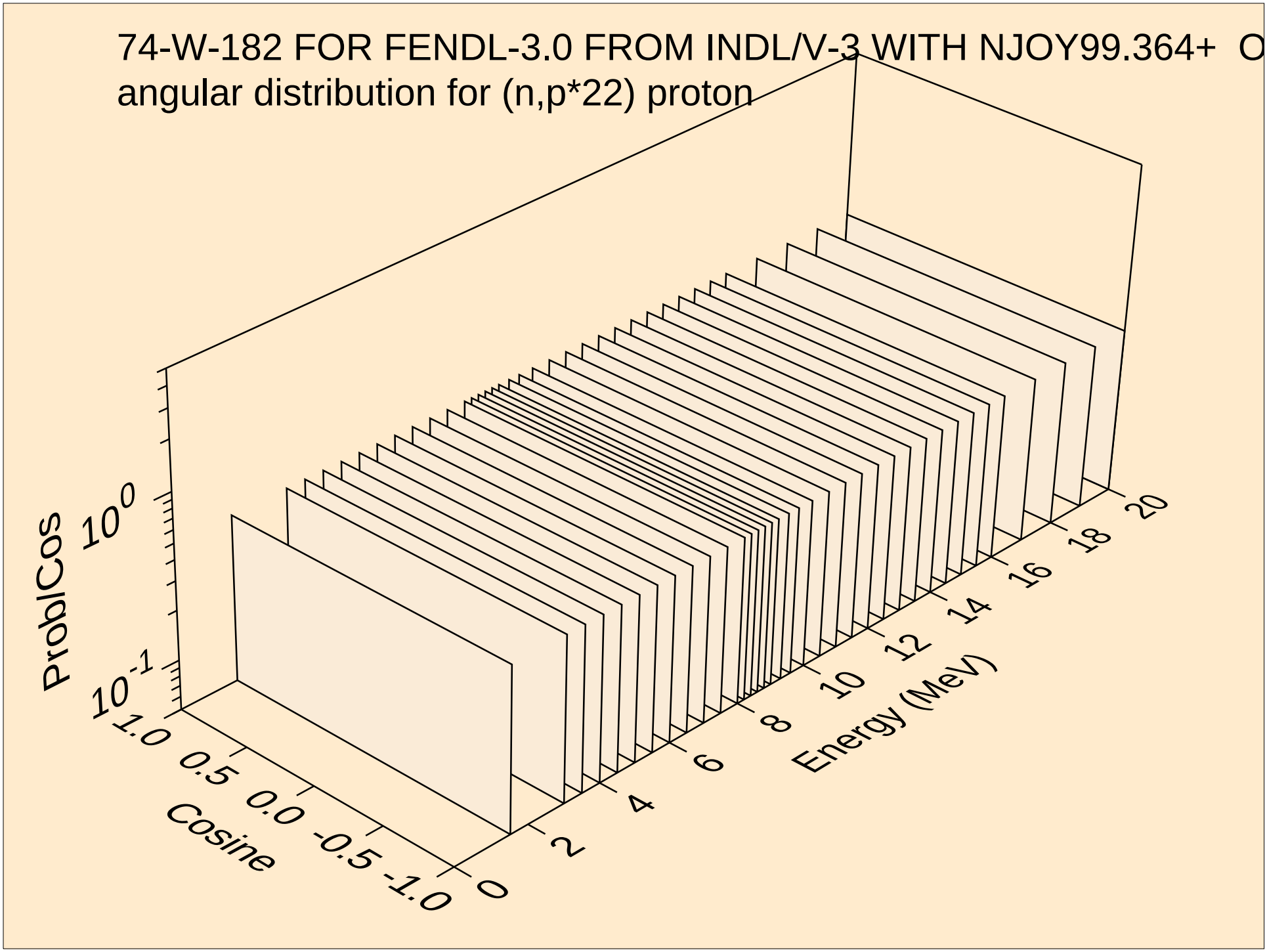

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*19) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

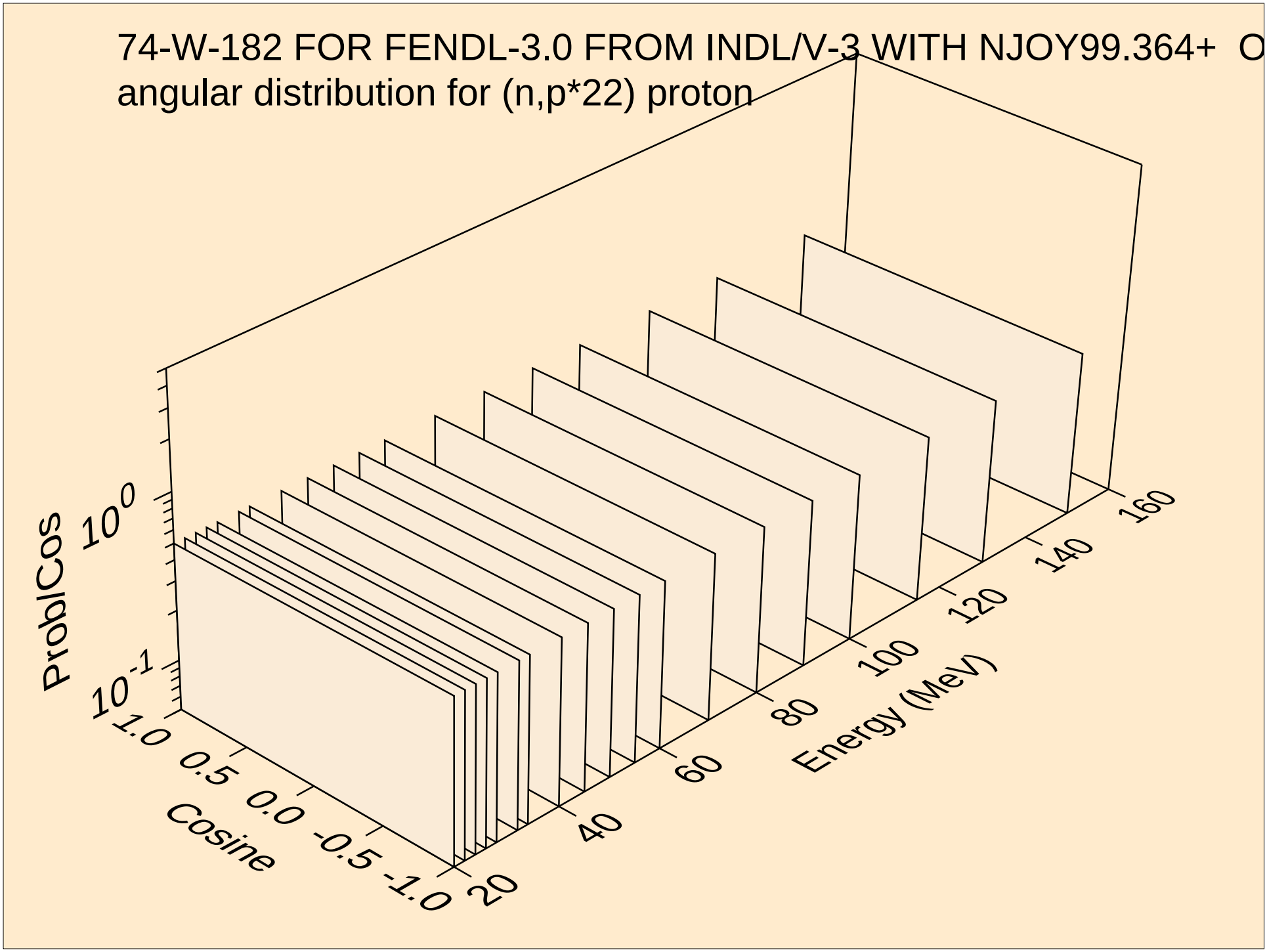

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*20) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

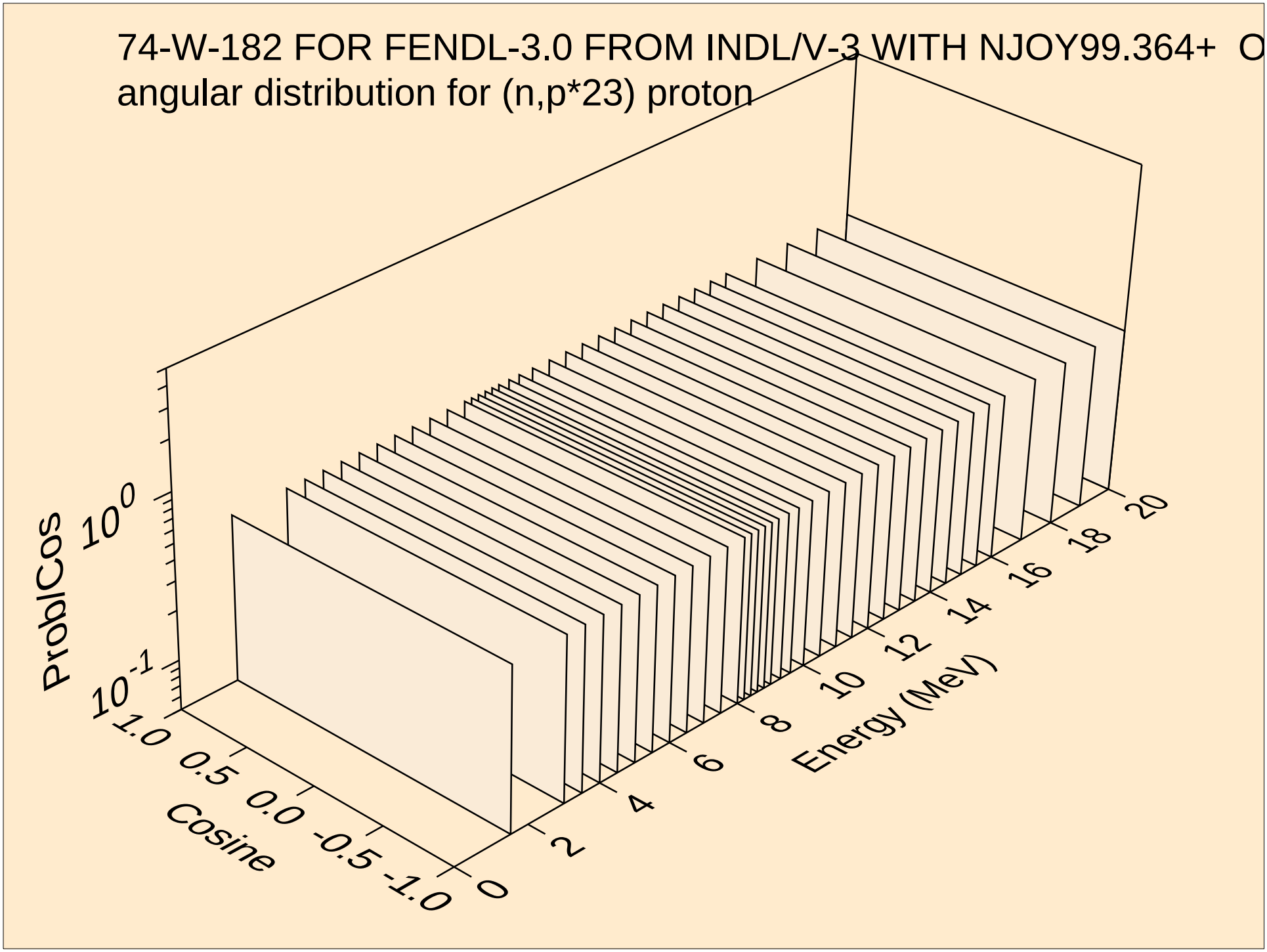

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*20) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

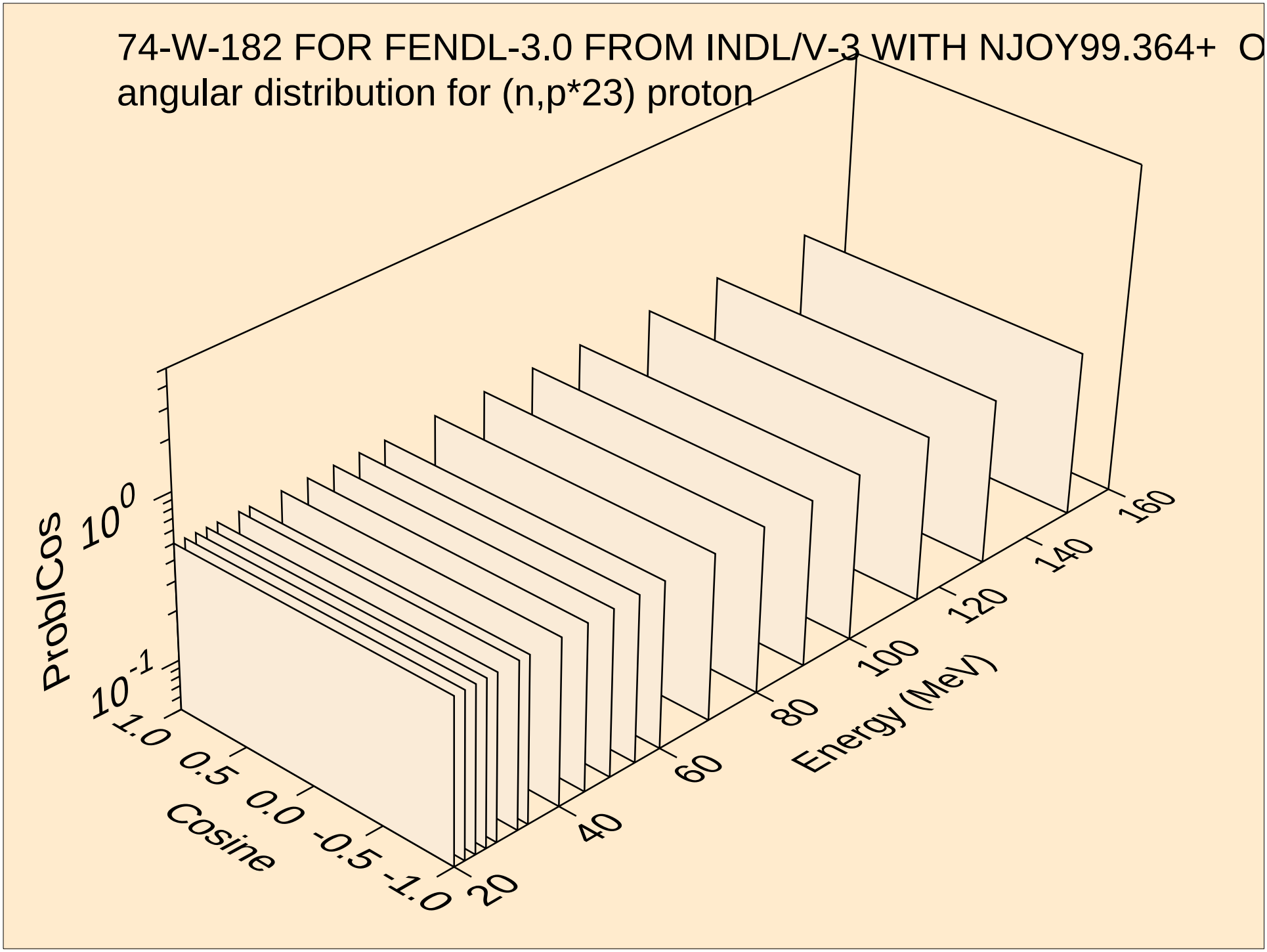

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*21) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

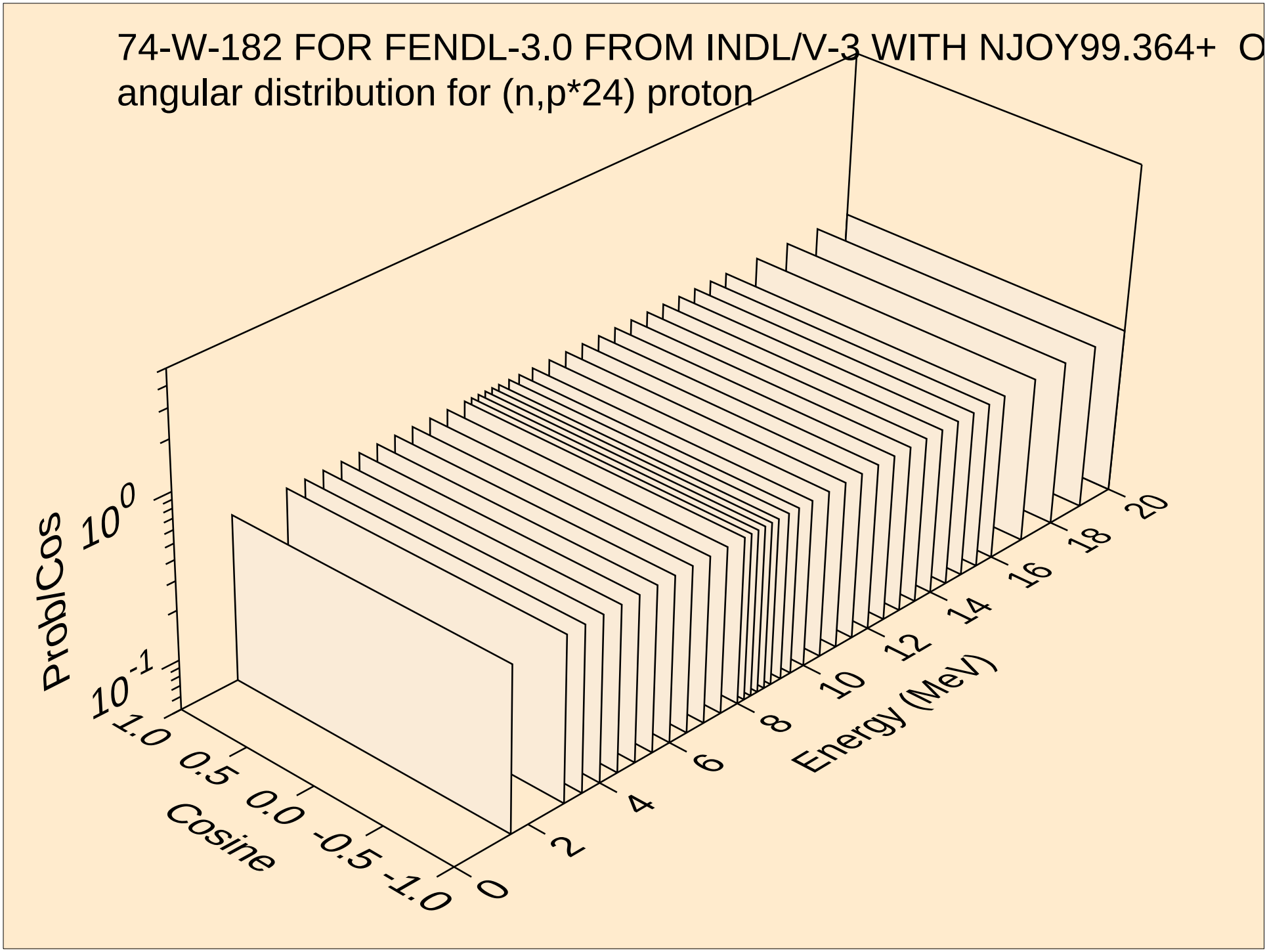

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*21) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

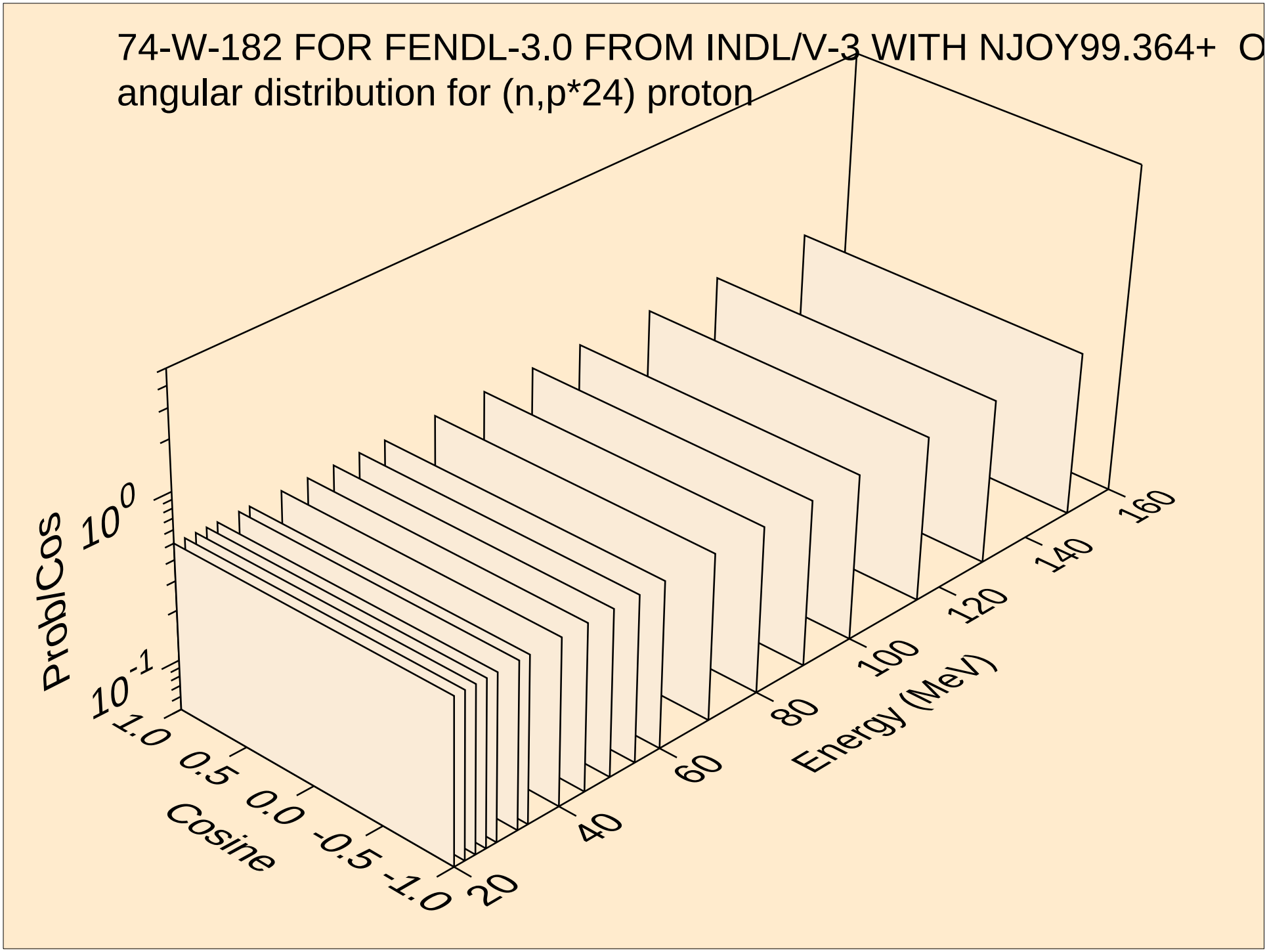

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*22) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

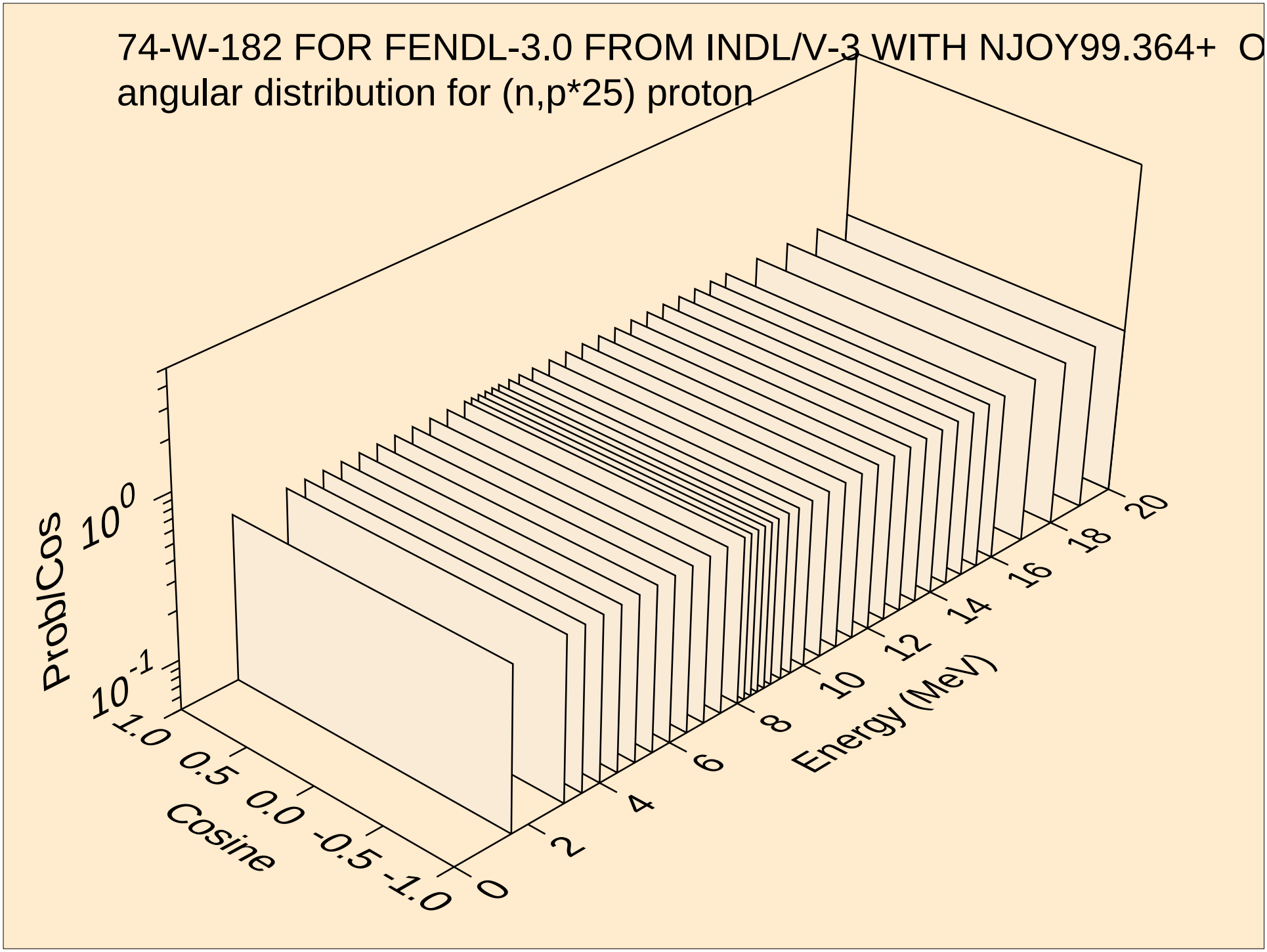

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*22) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

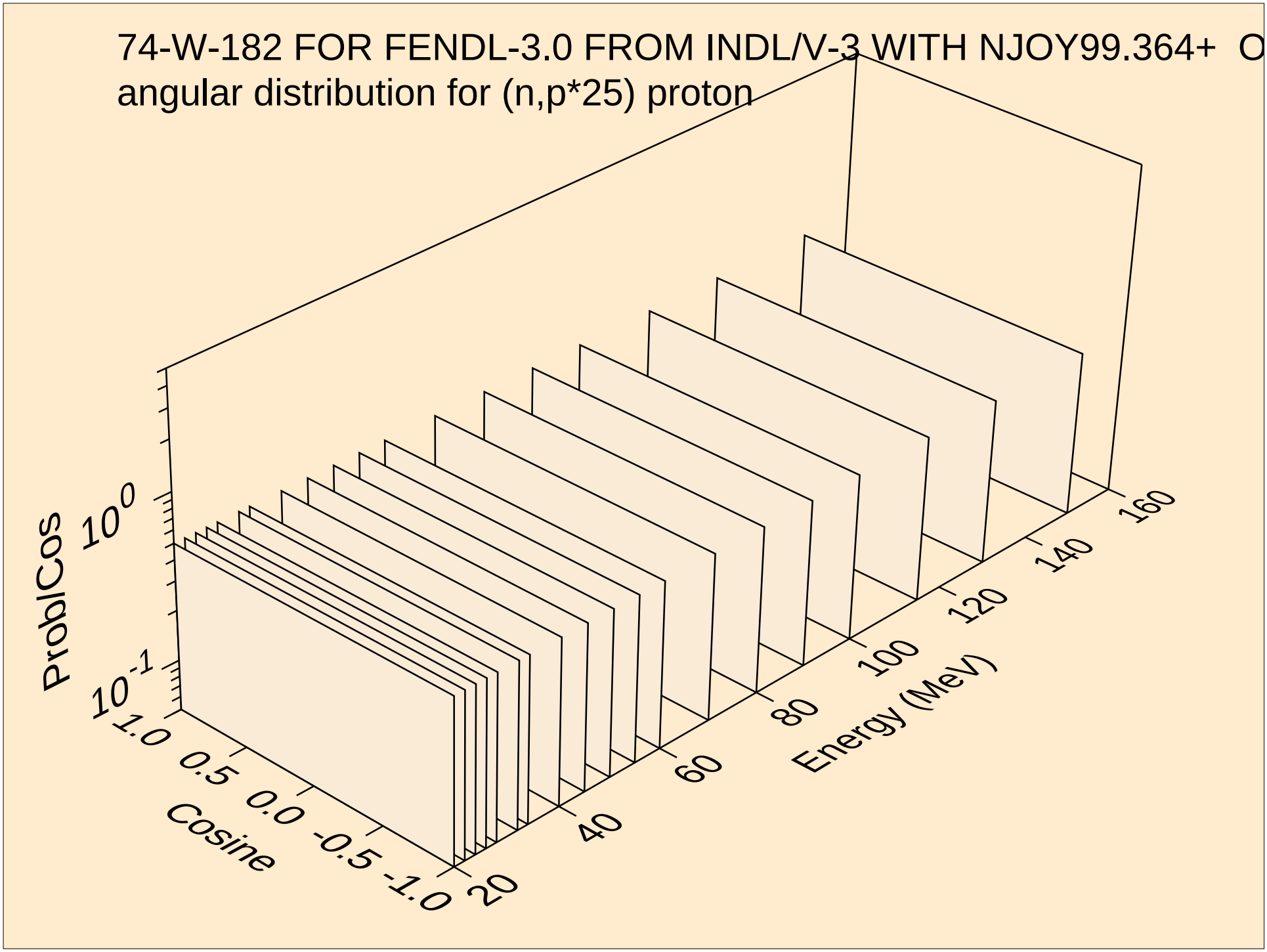

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*23) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

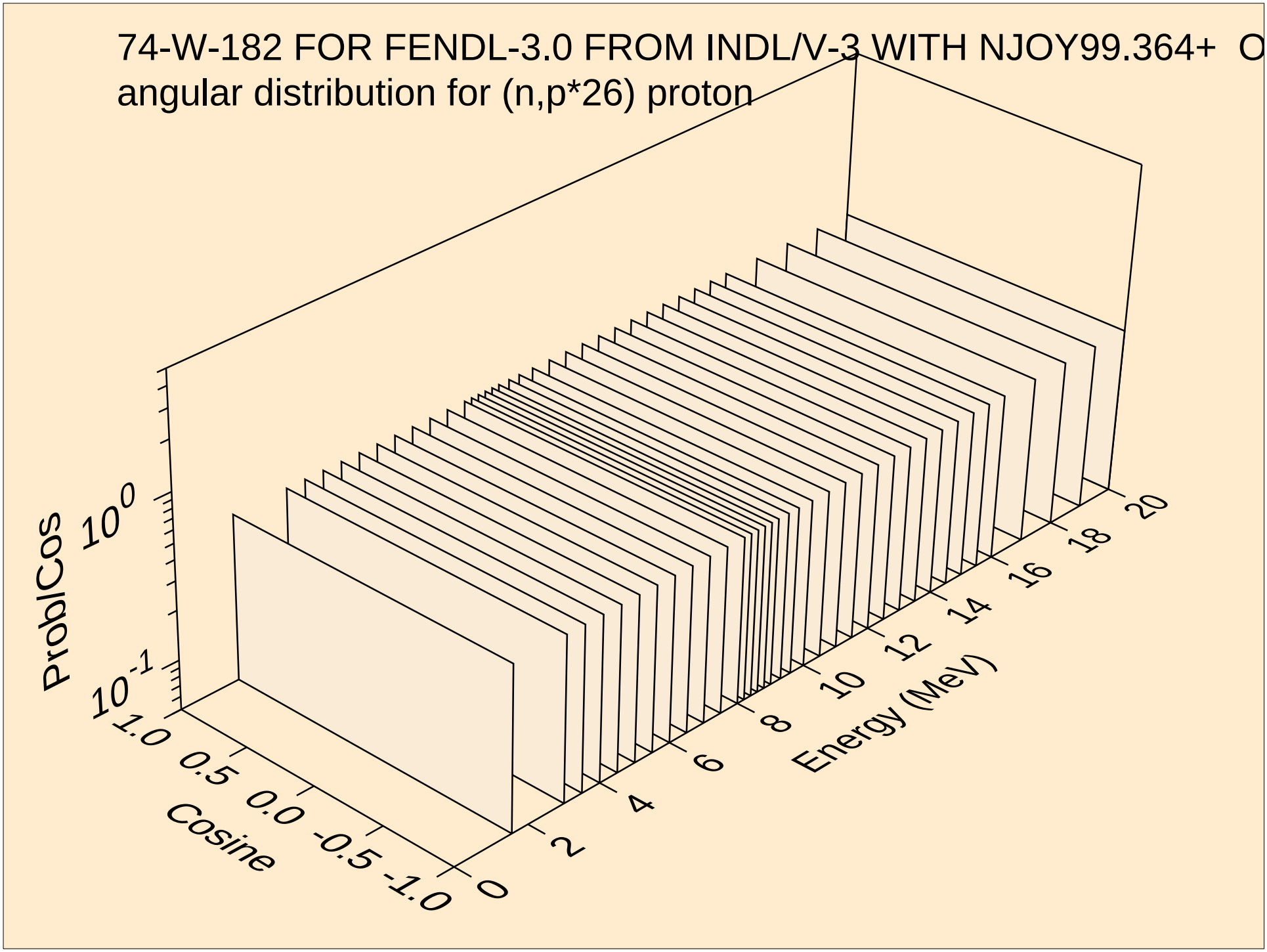

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*23) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

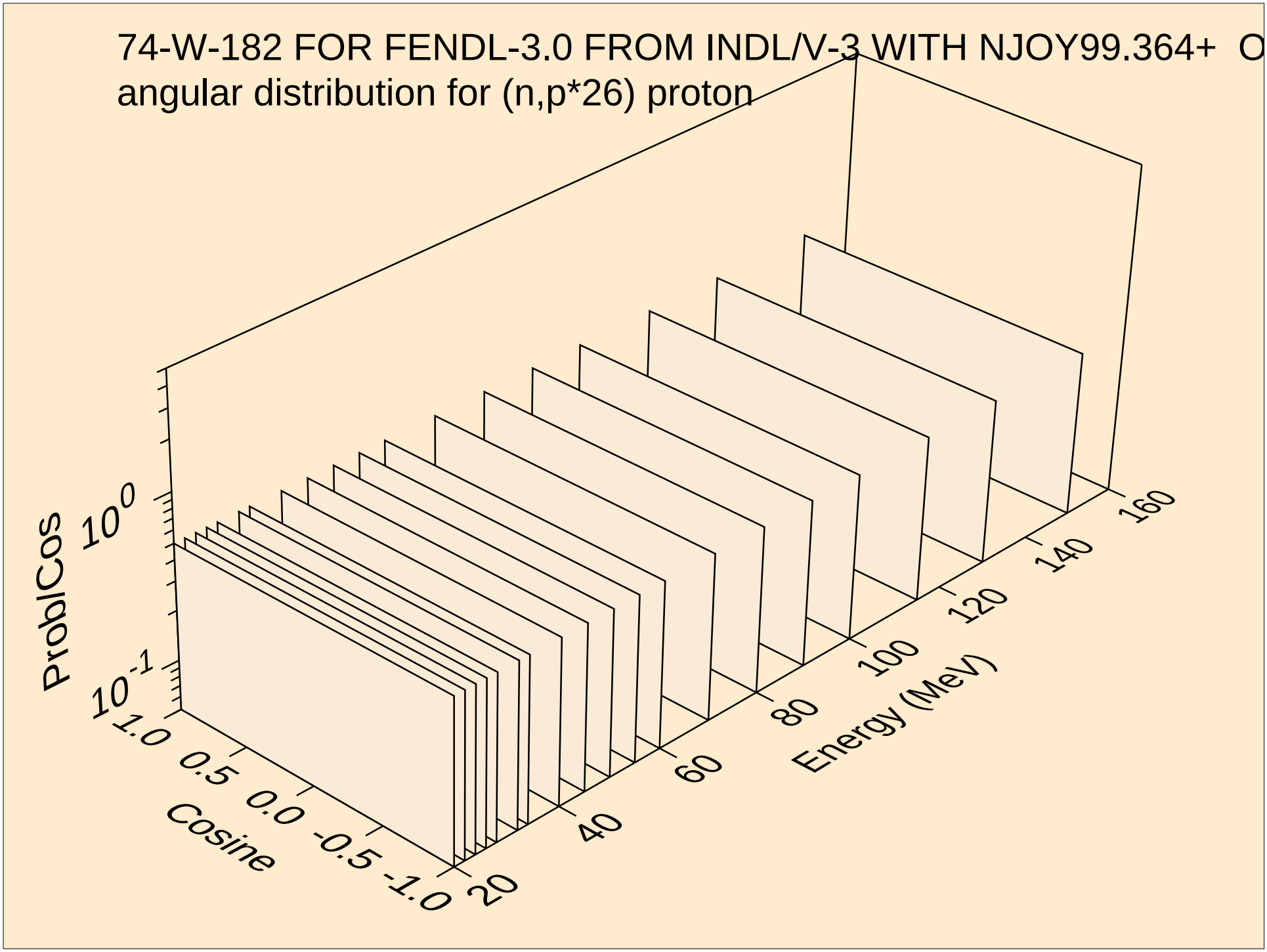

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*24) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

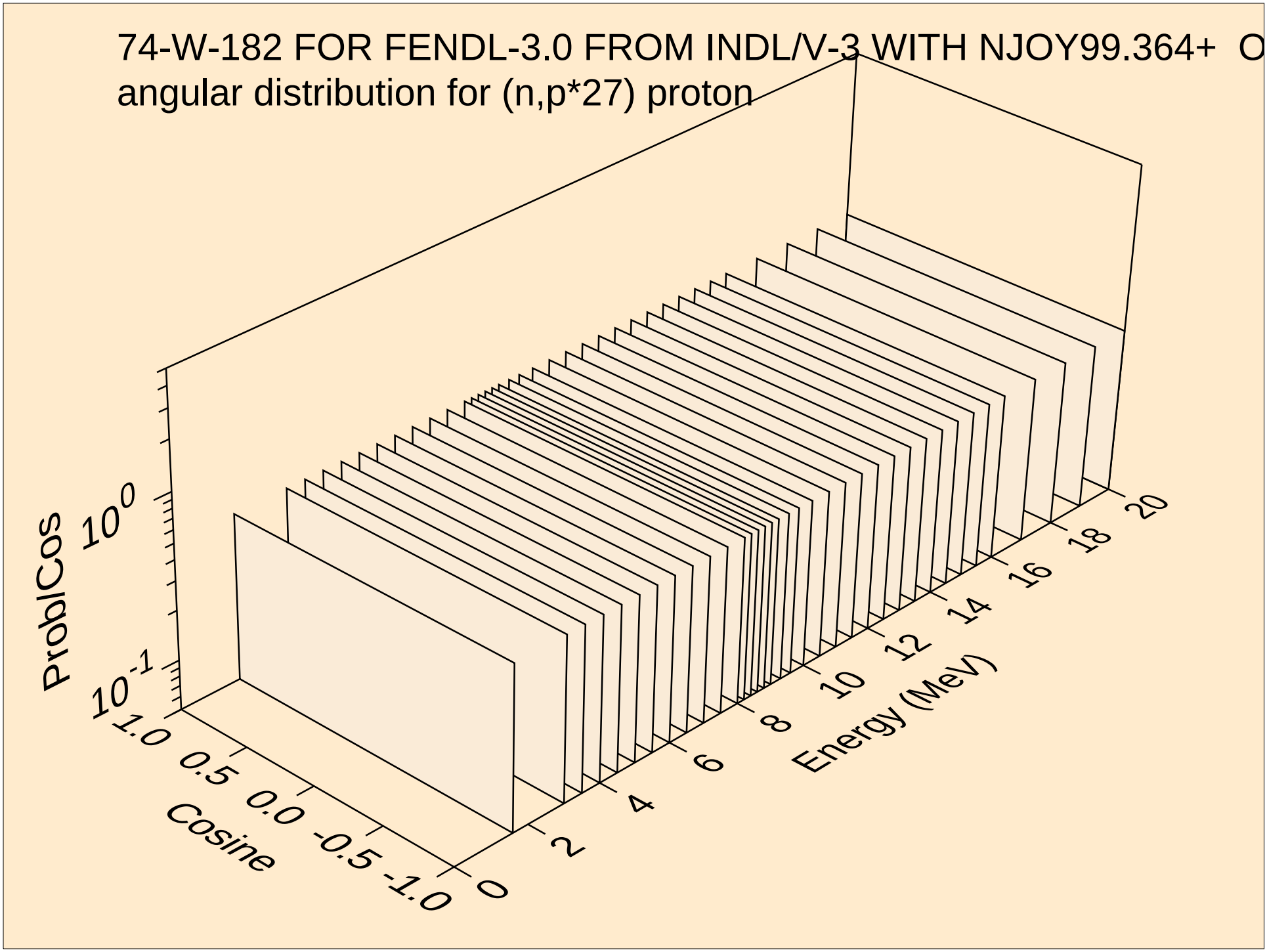

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*24) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

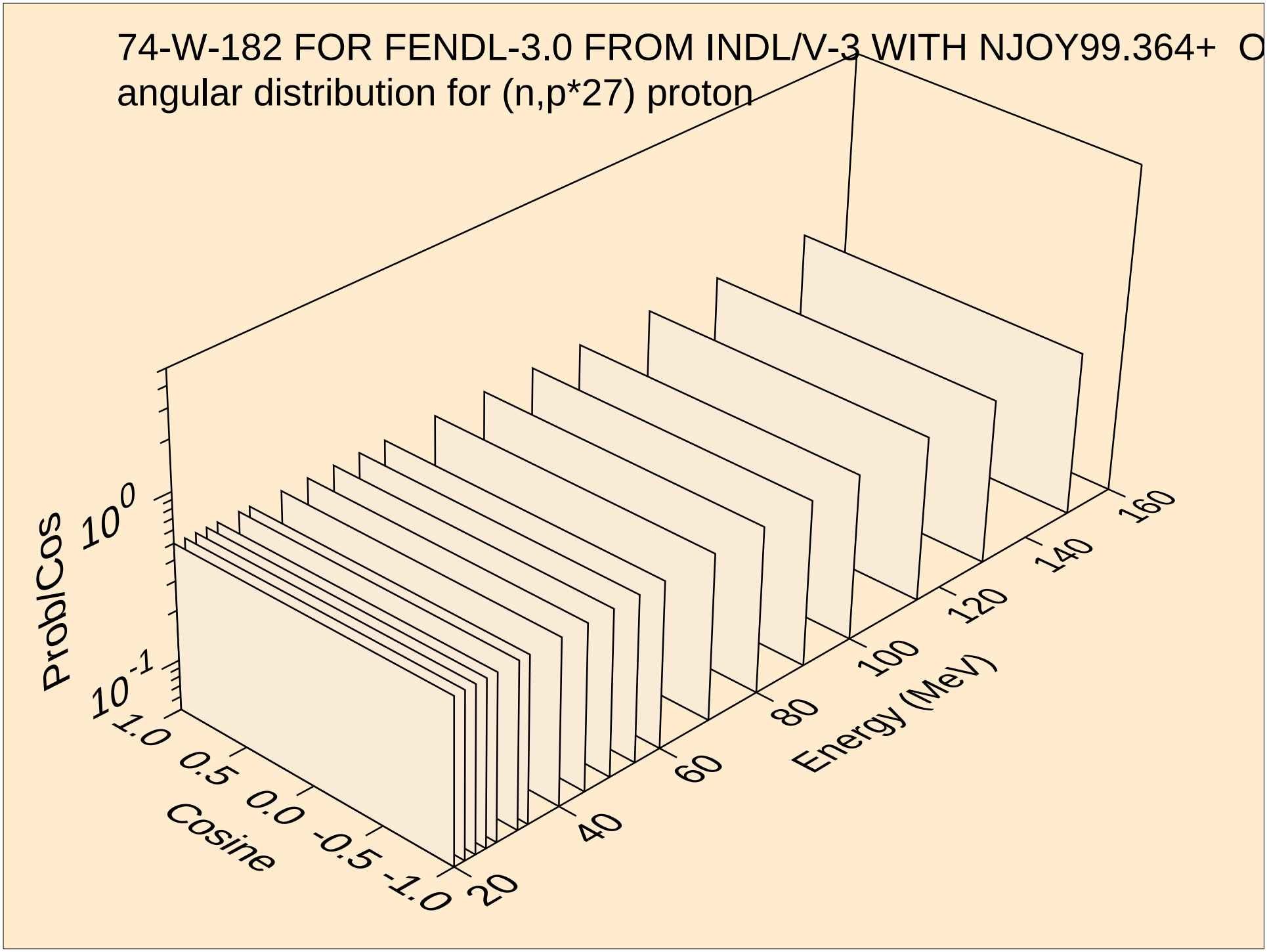

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*25) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

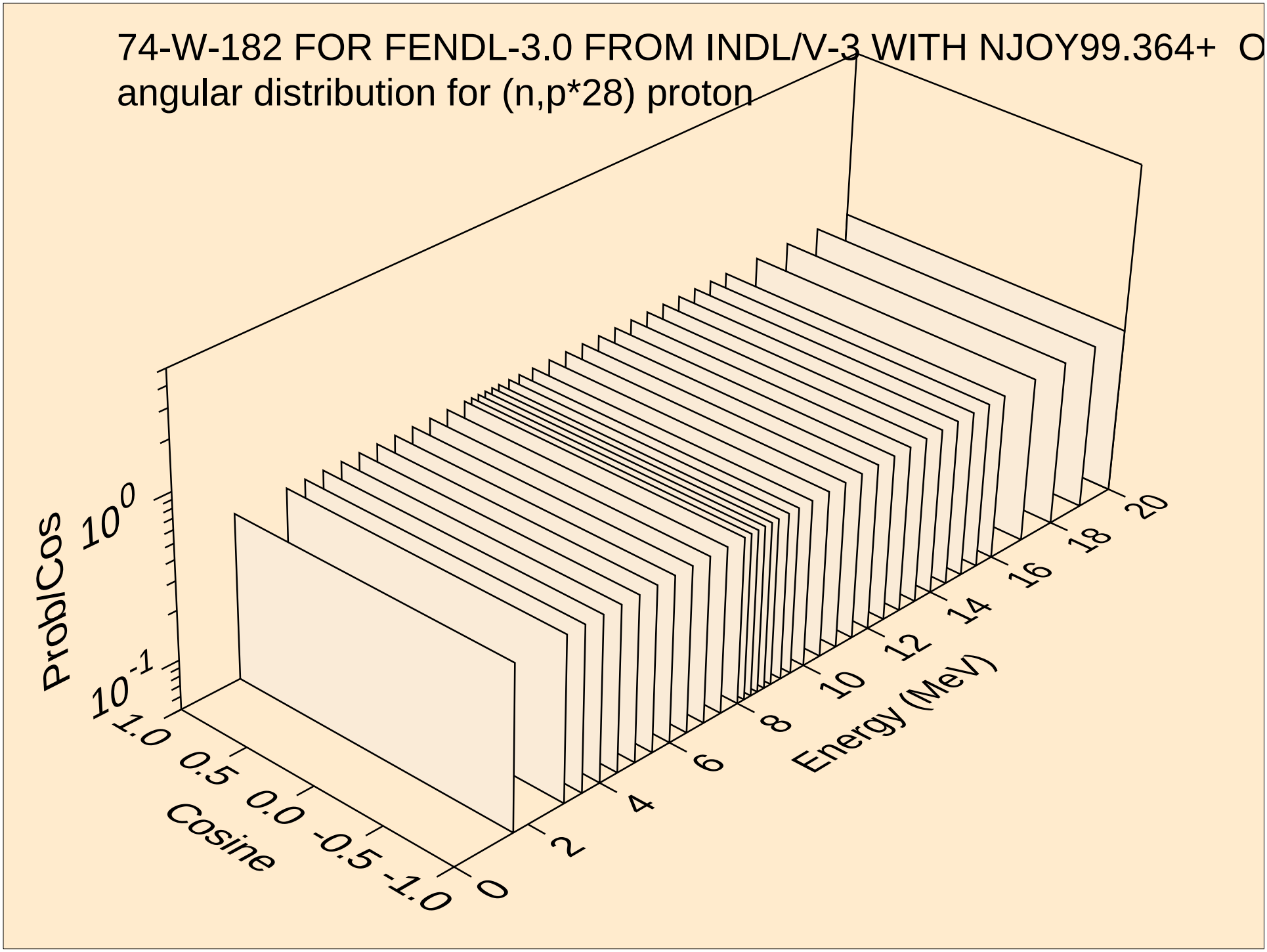

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*25) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

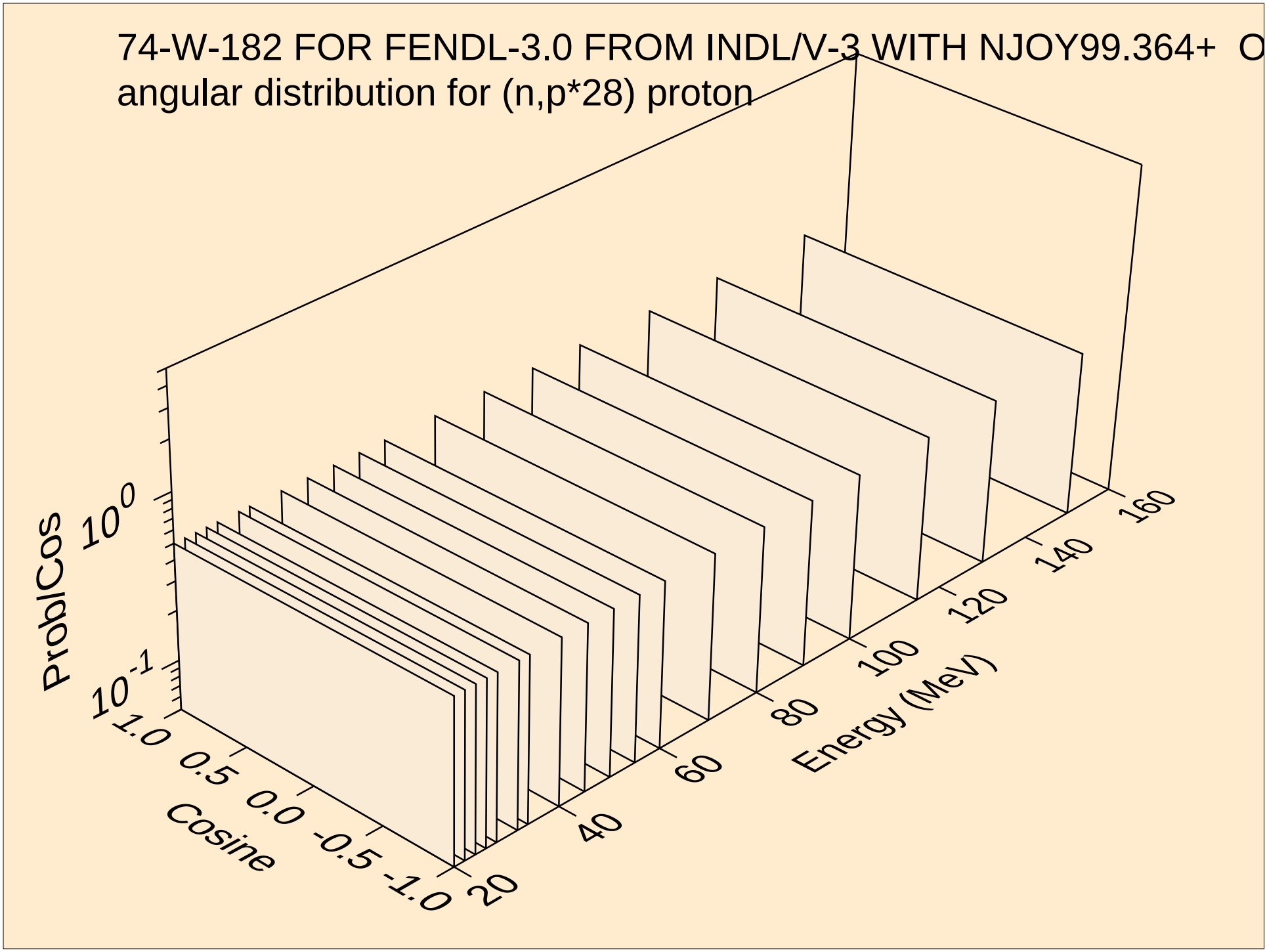

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*26) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

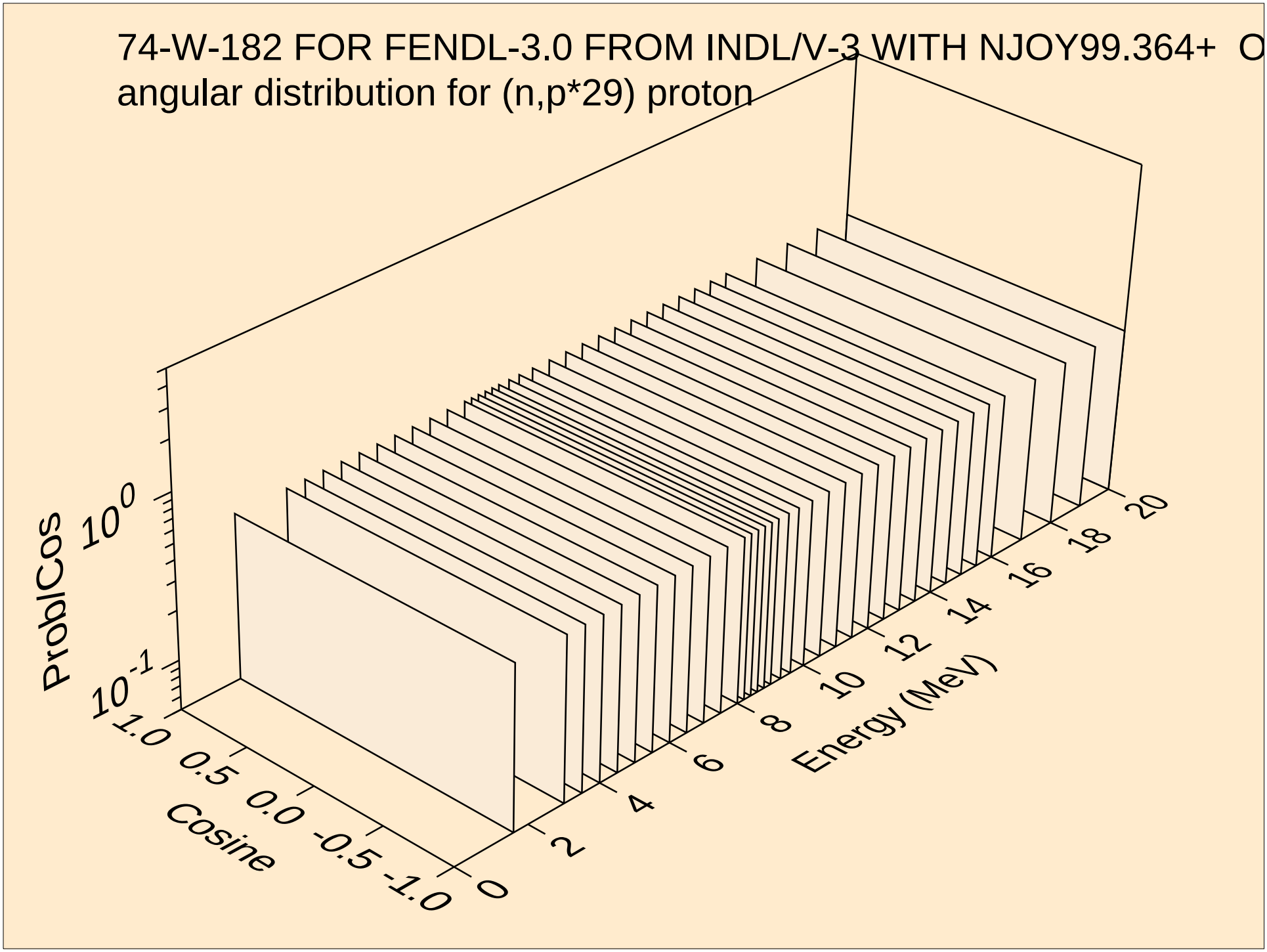

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*26) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

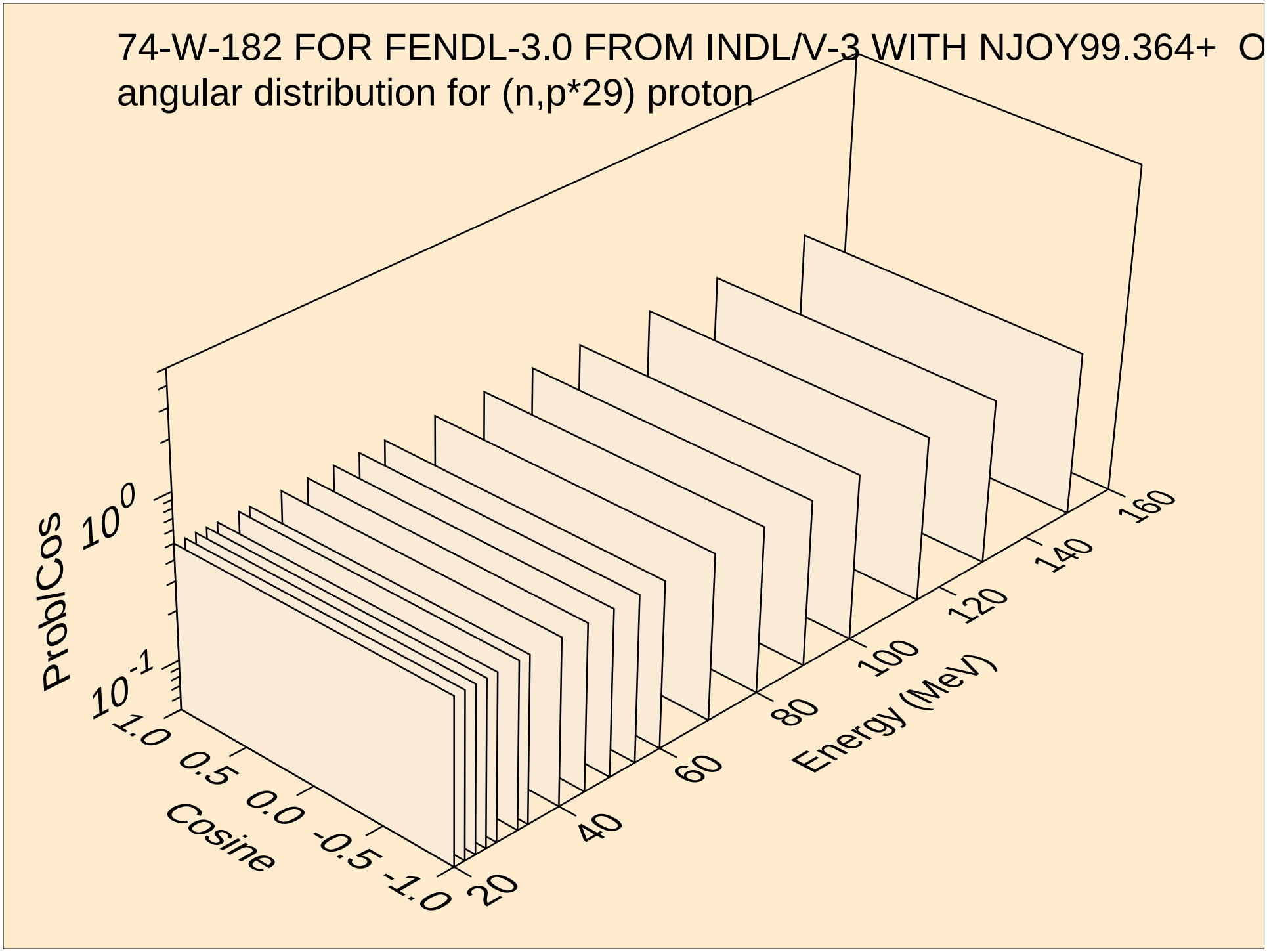

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*27) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

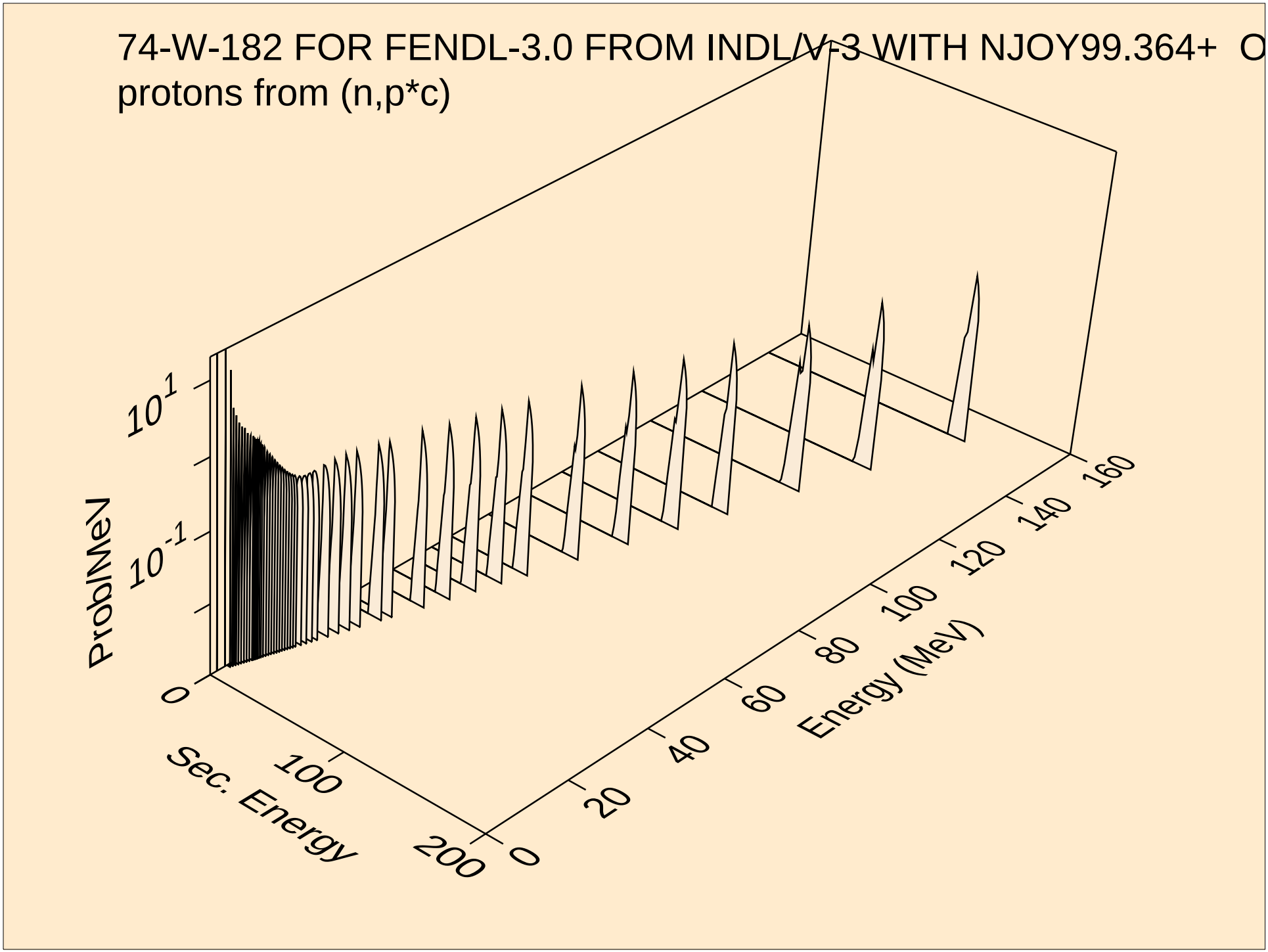

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*27) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

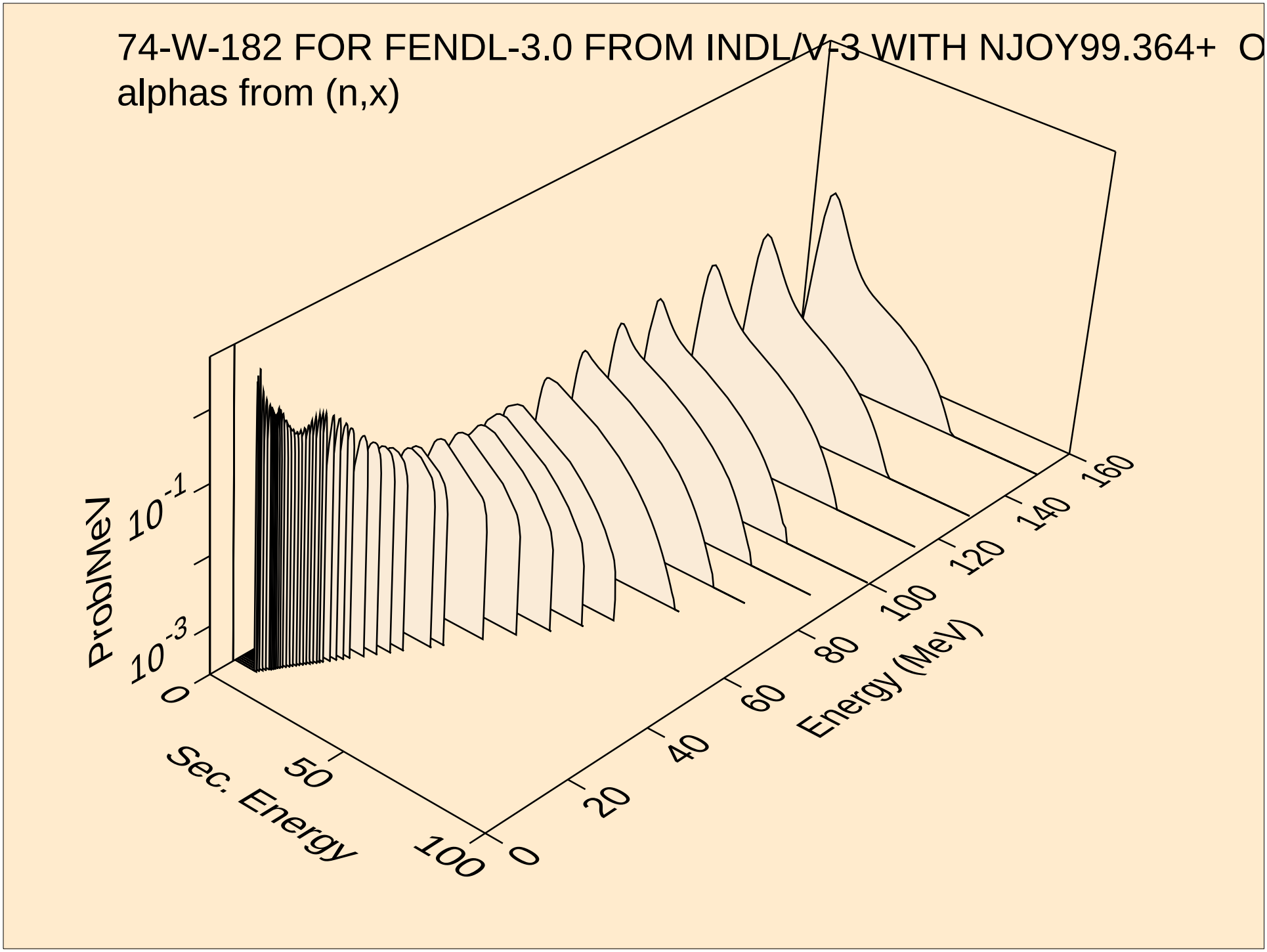

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*28) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

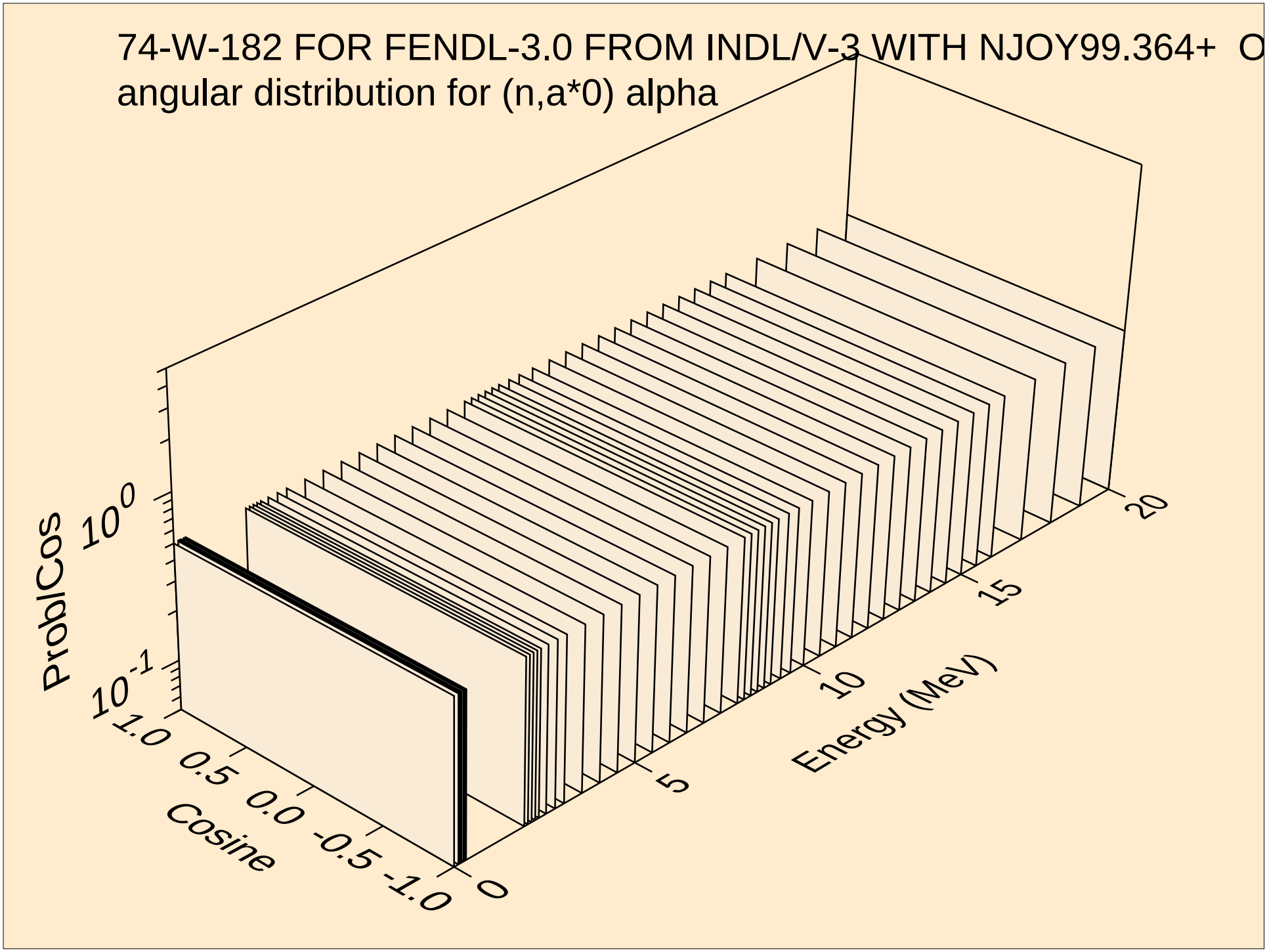

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*28) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

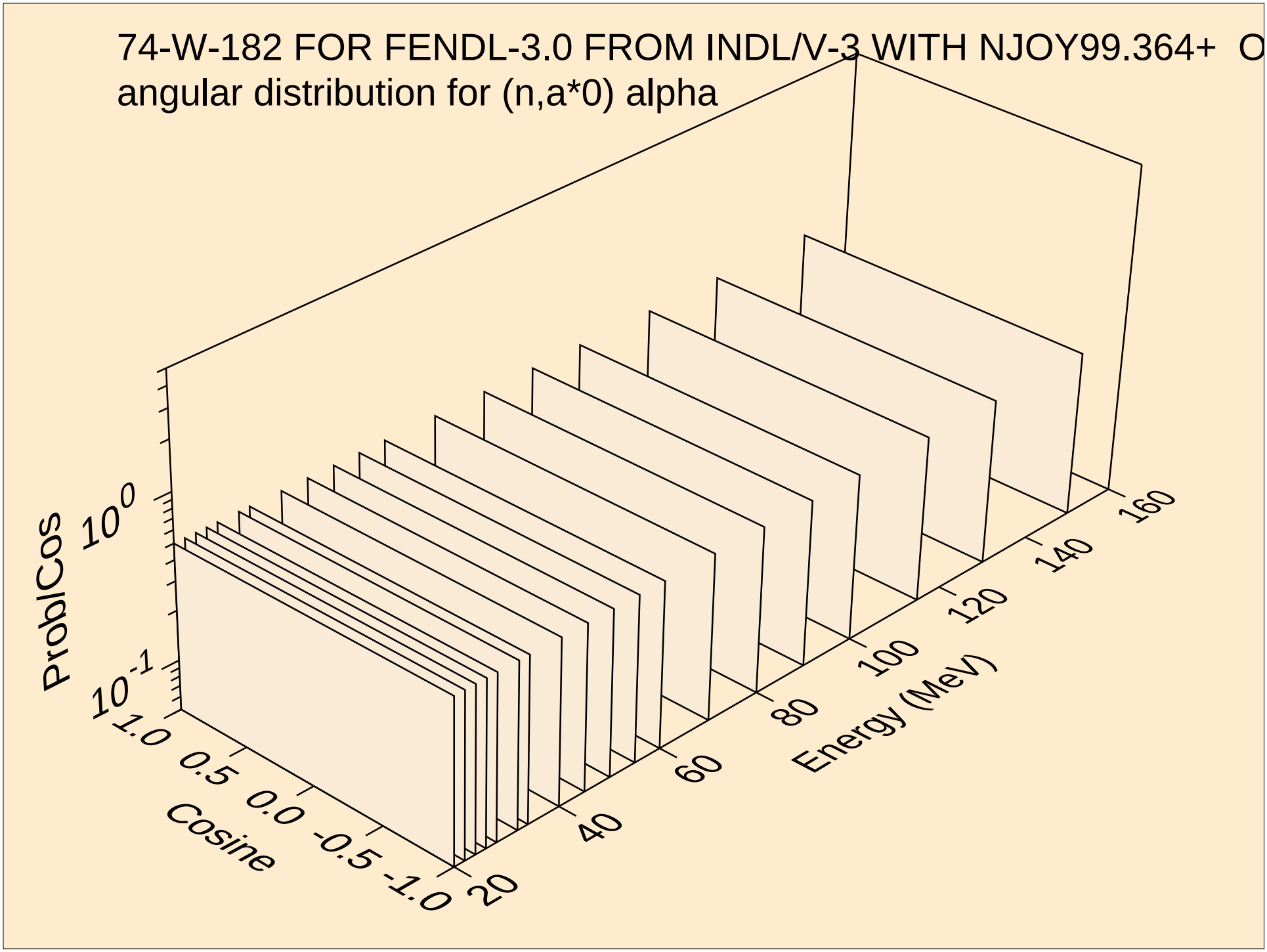

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*29) proton
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

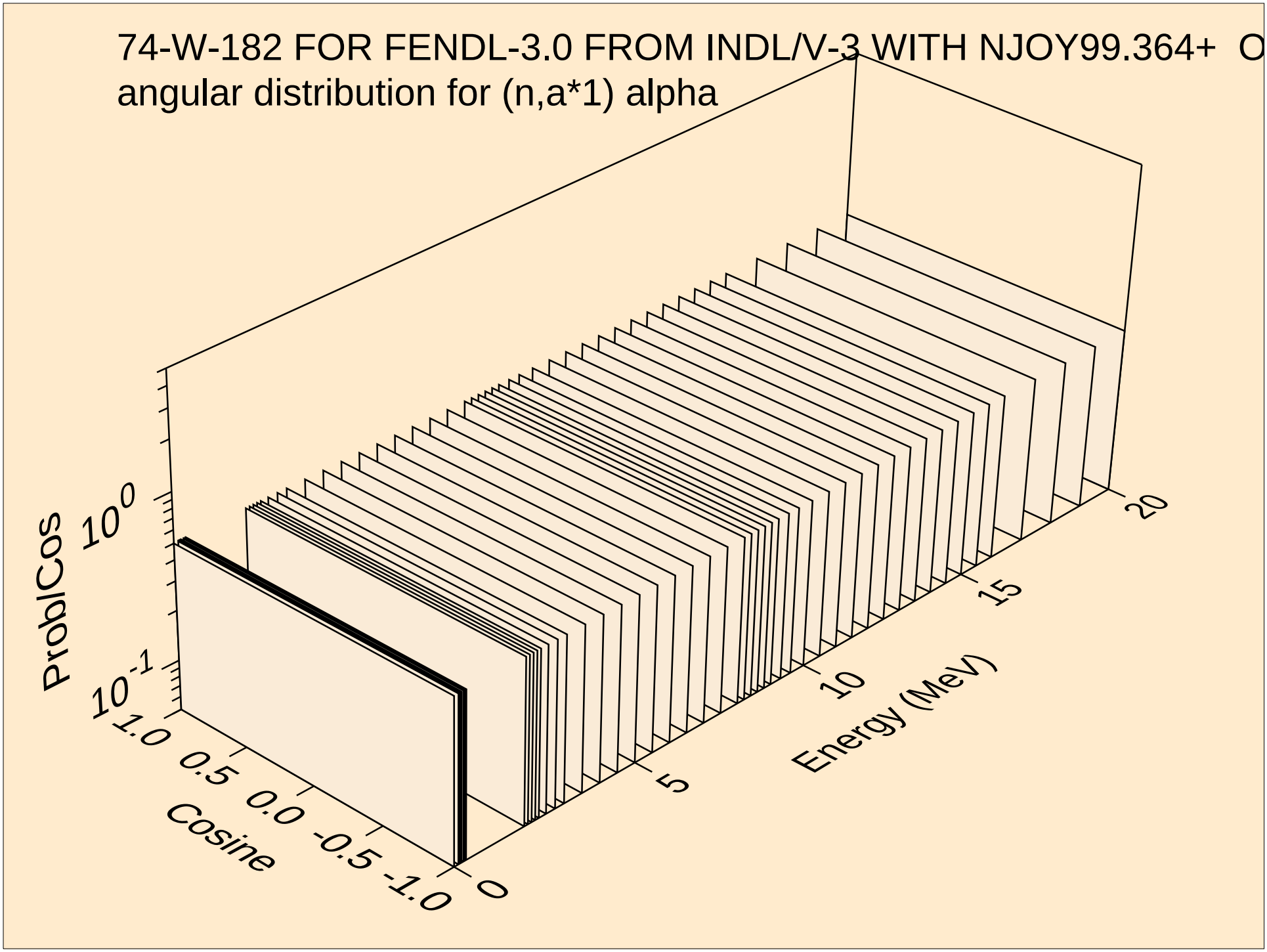

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,p*29) proton
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

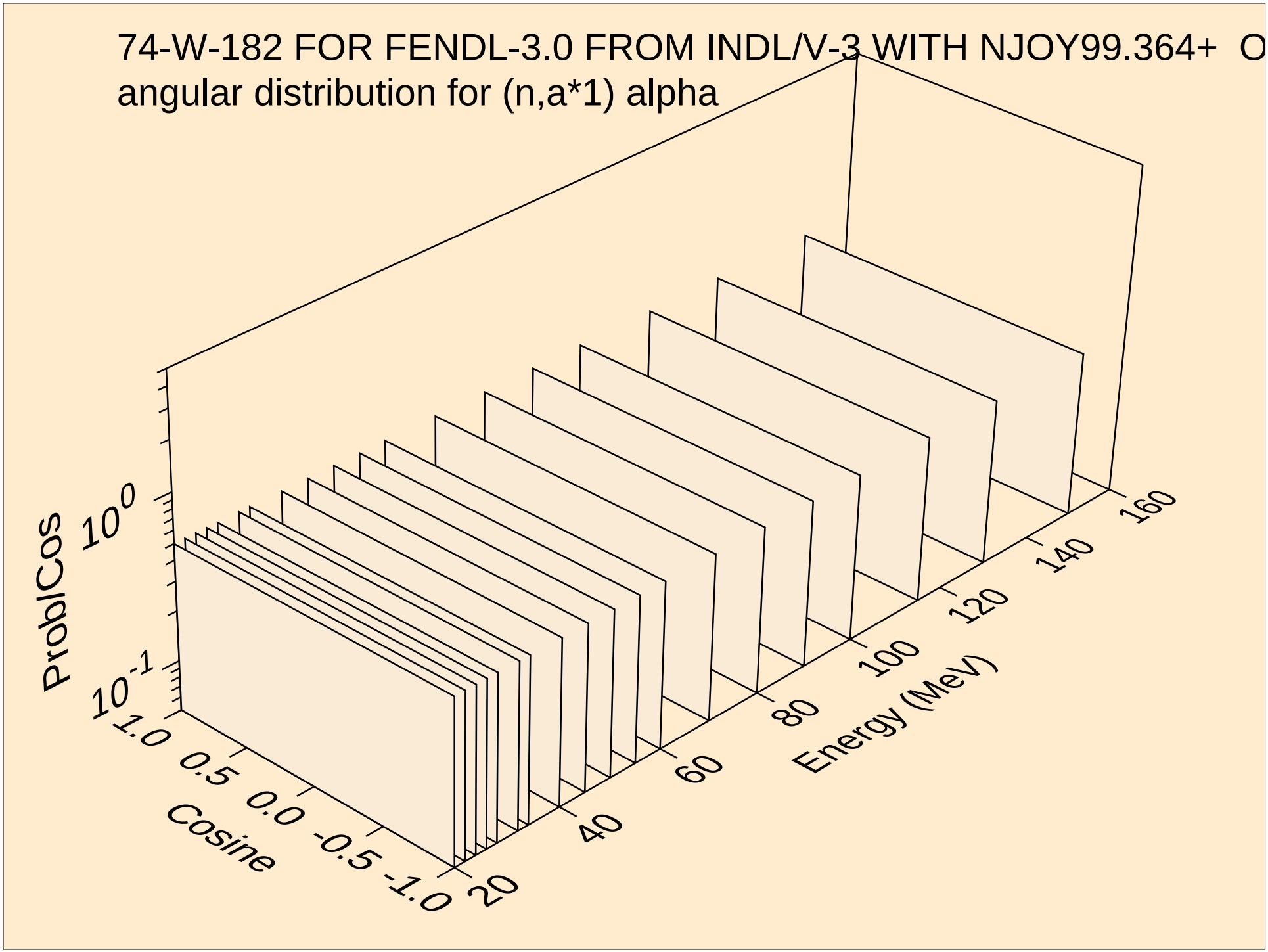

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
protons from (n,p*c)
Prob/MeV
10^{1}
10^{-1}
0
100
200
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

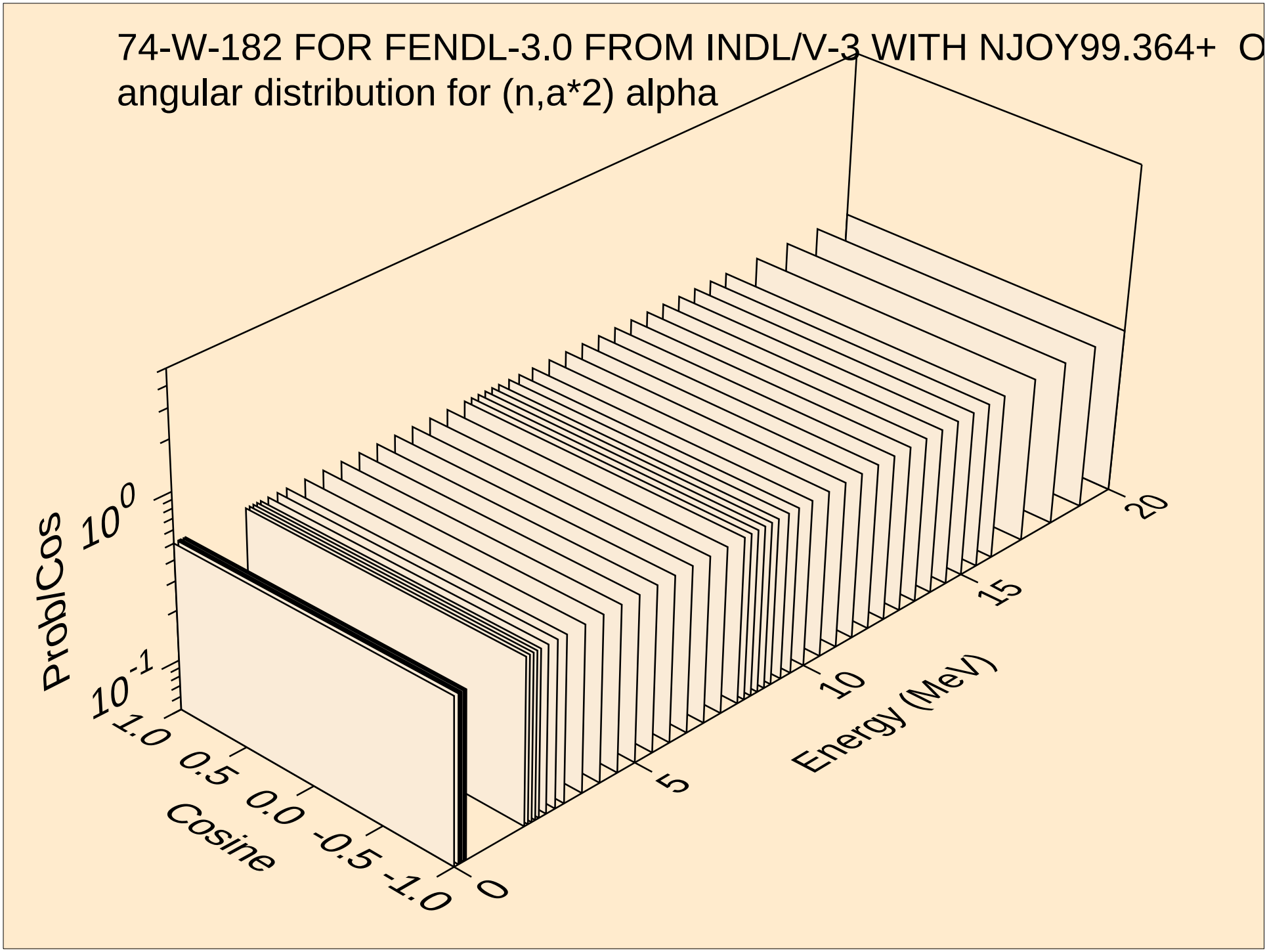

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
alphas from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
50
100
0
20
40
60
80
100
120
140
160
Energy (MeV)

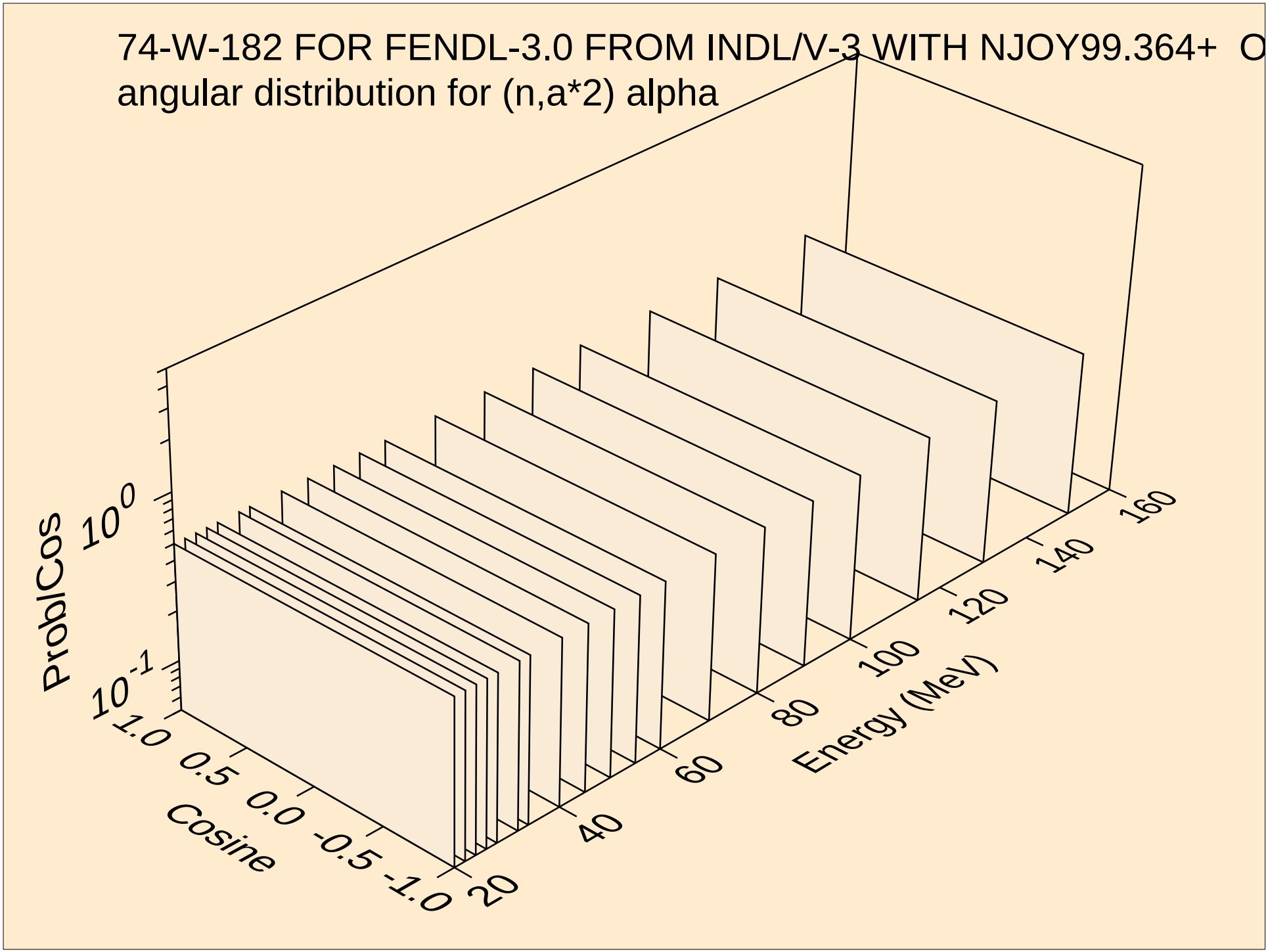

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*0) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

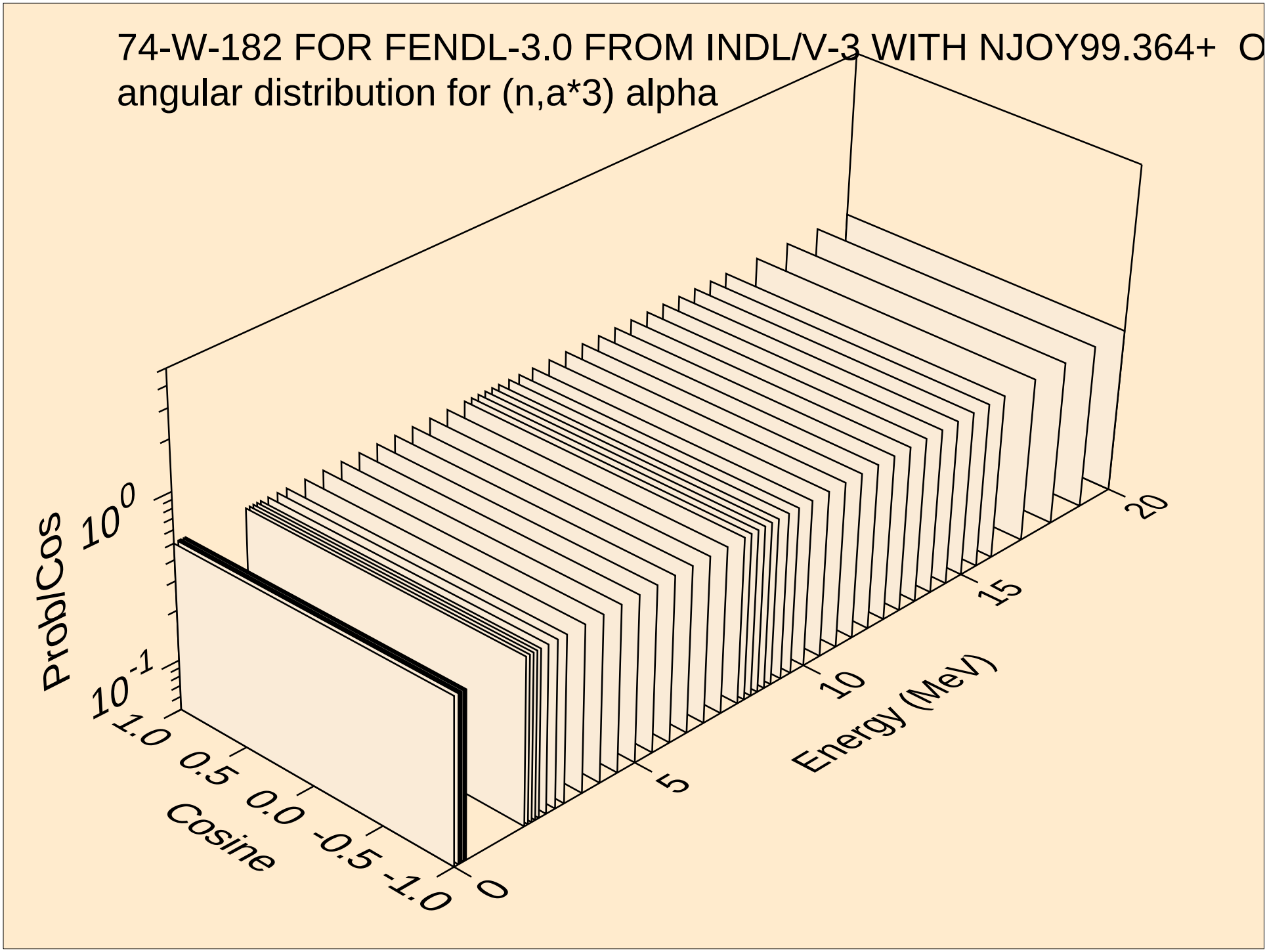

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*0) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

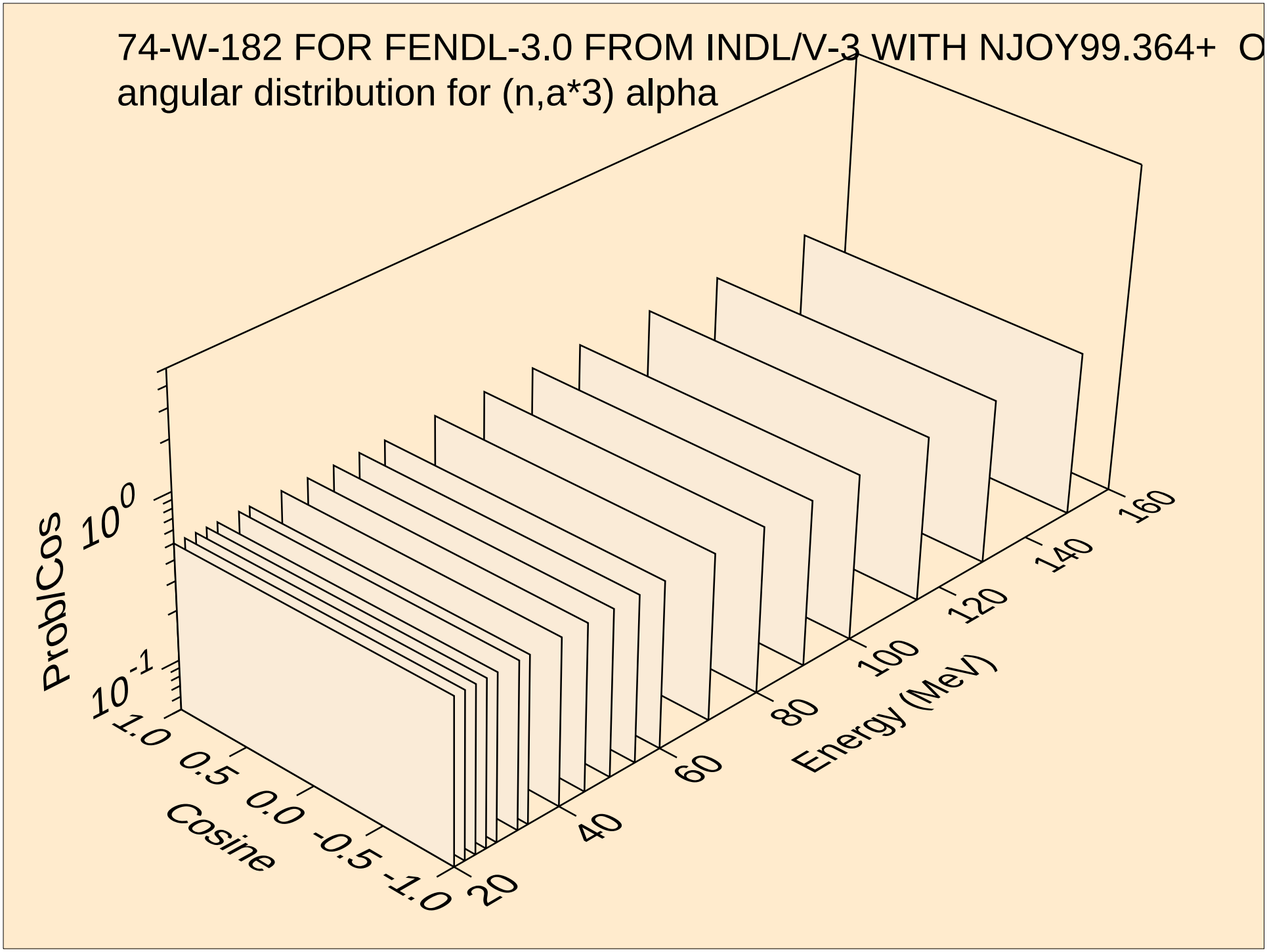

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*1) alpha
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

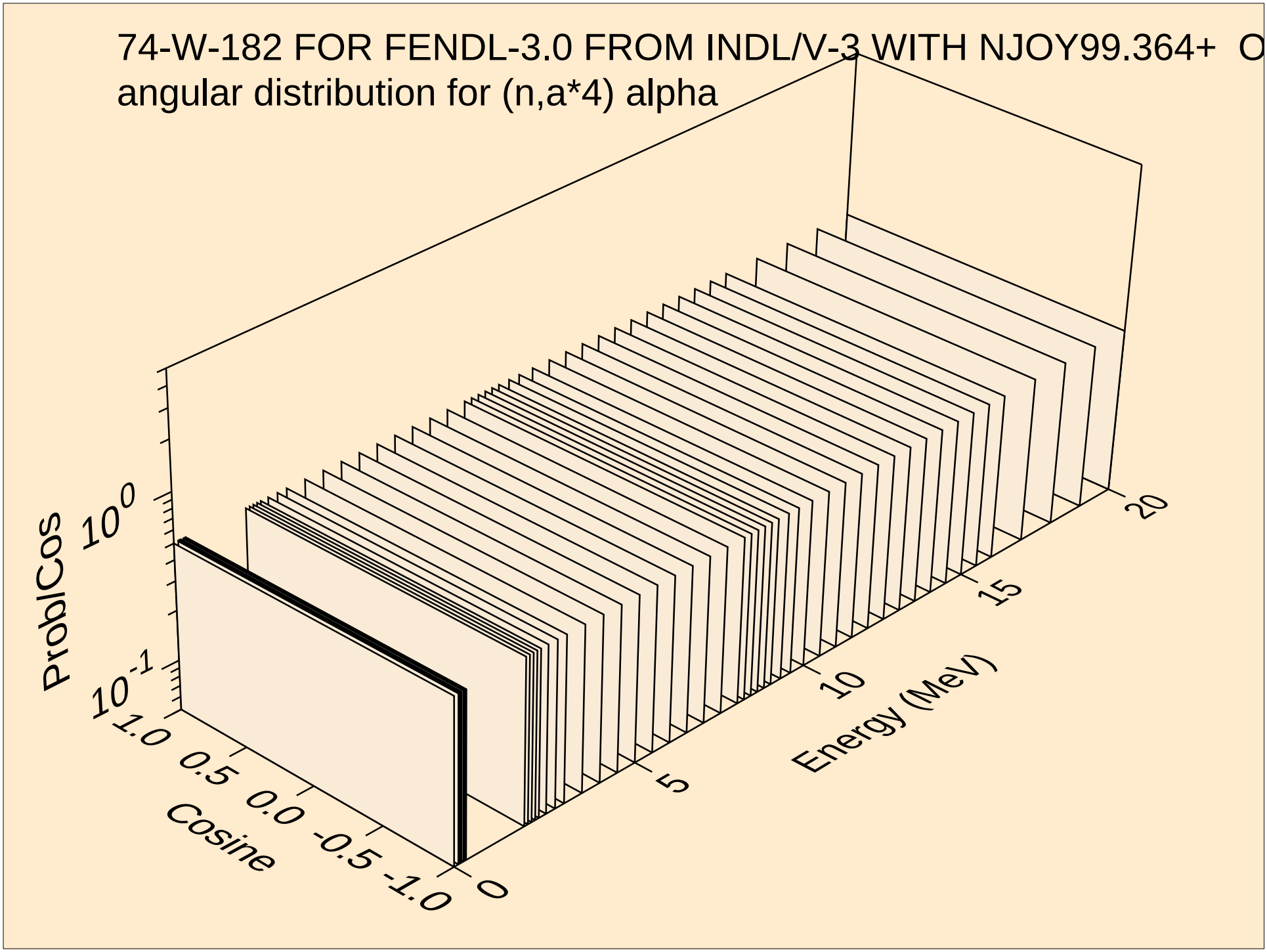

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*1) alpha
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

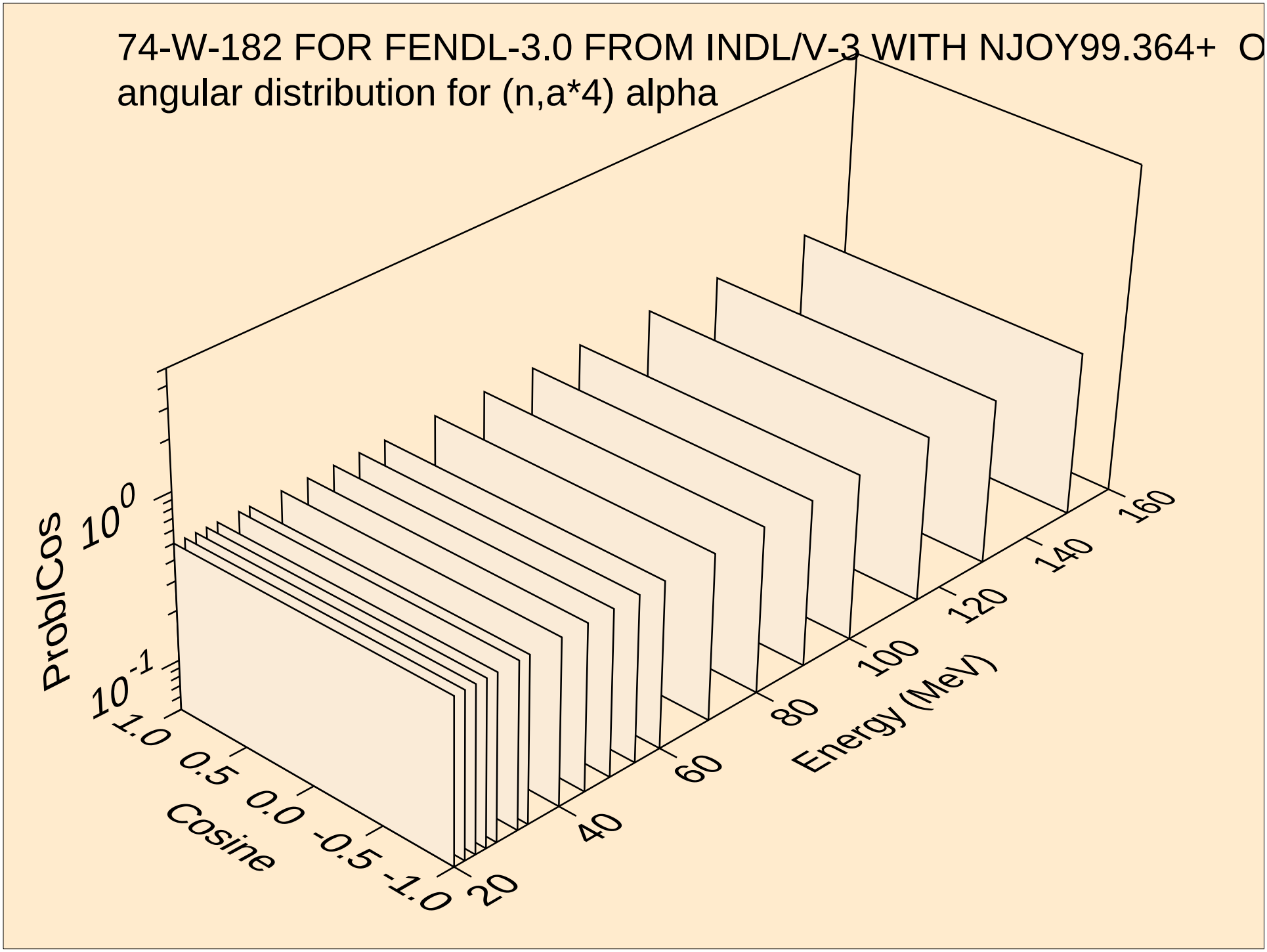

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*2) alpha
ProbCos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

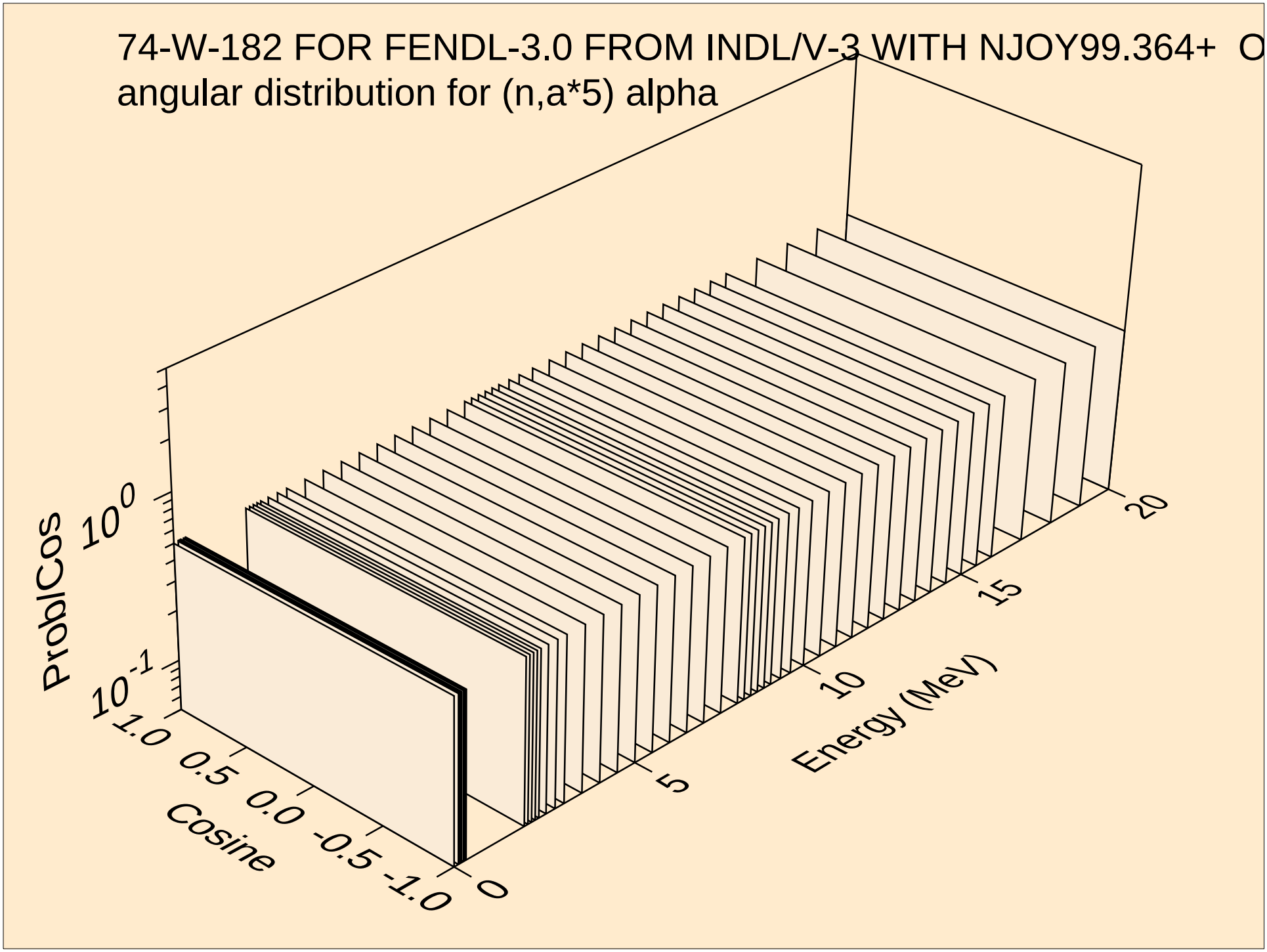

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*2) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

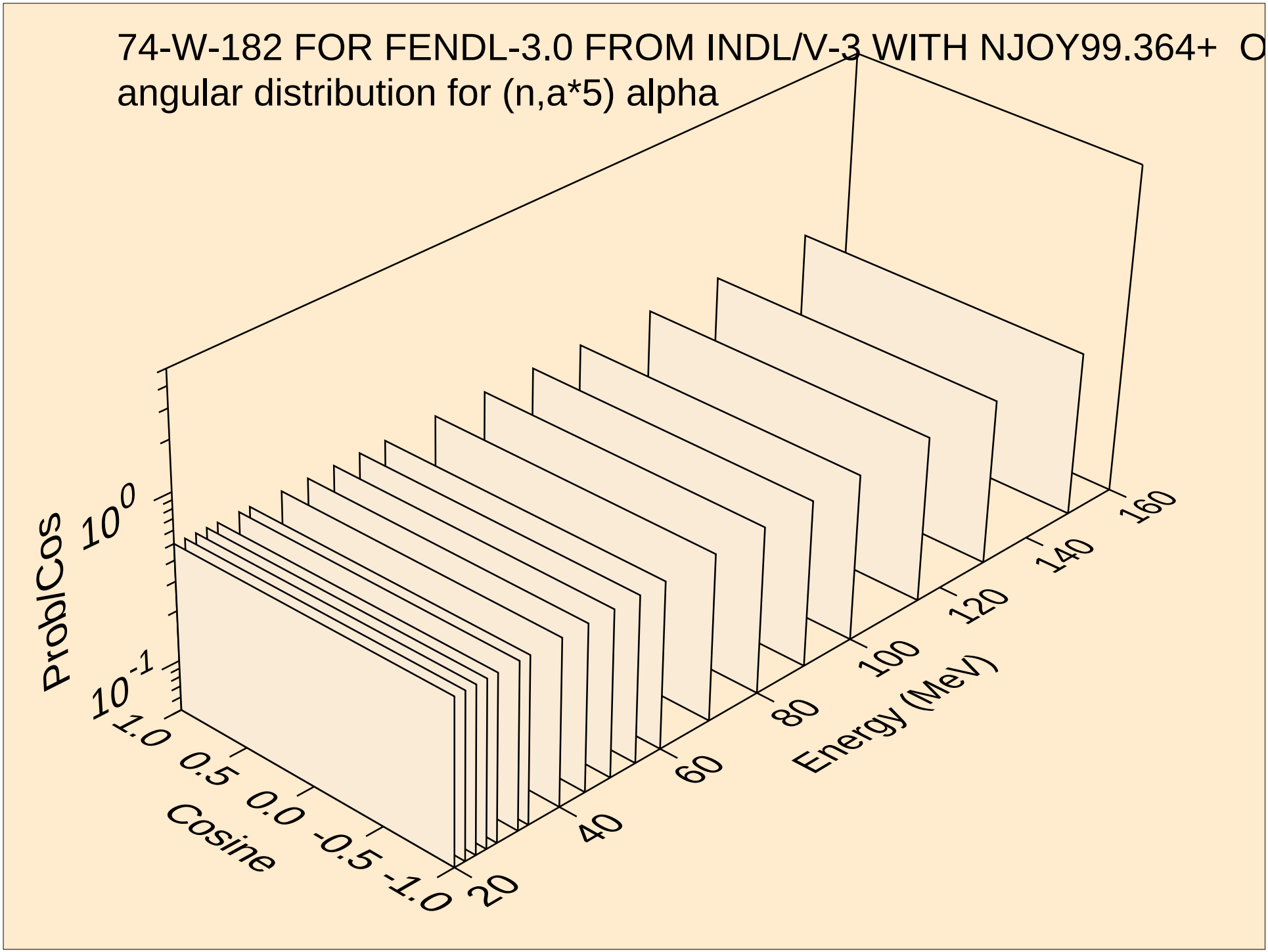

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*3) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

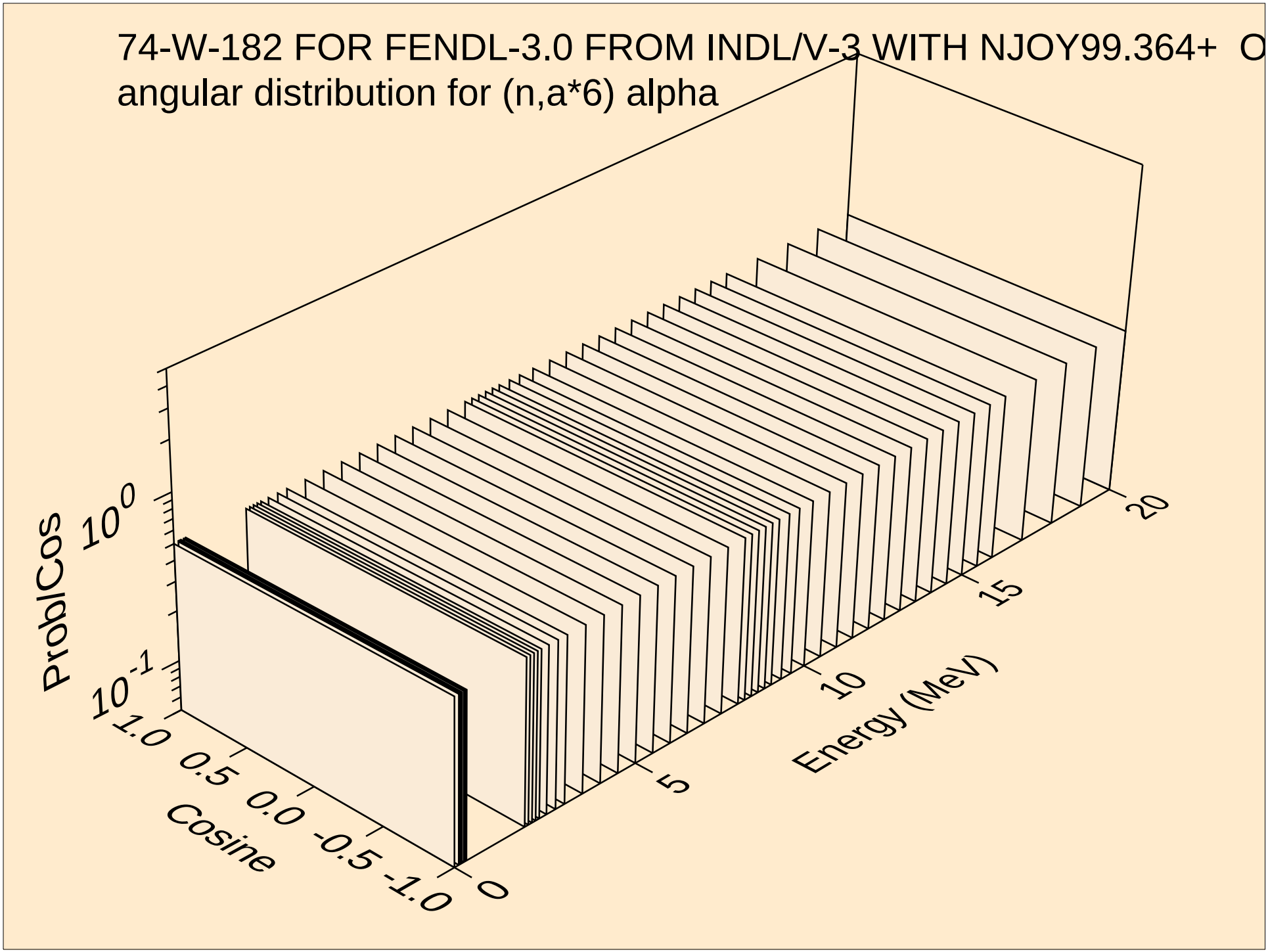

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*3) alpha
ProbICos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

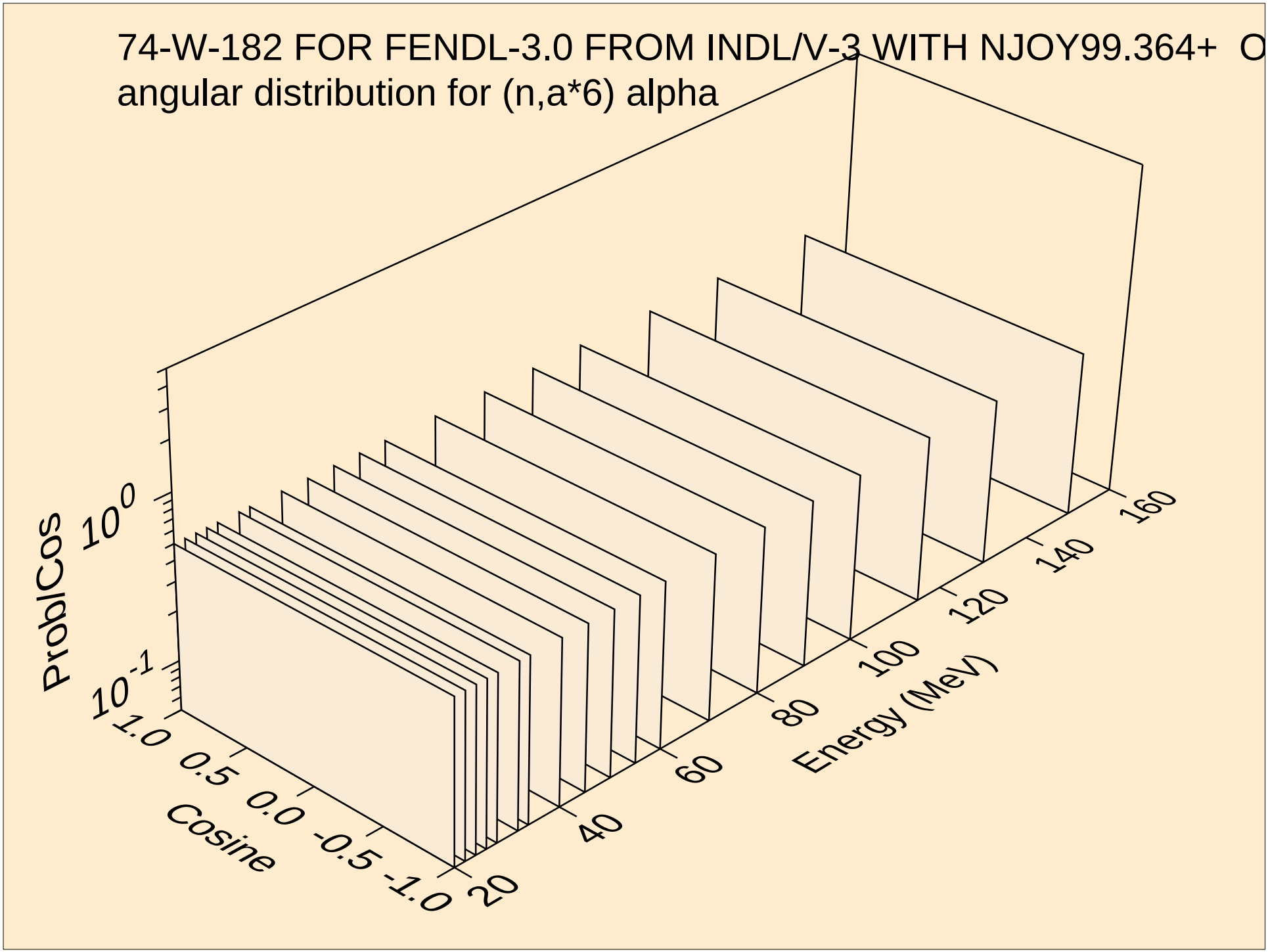

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*4) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

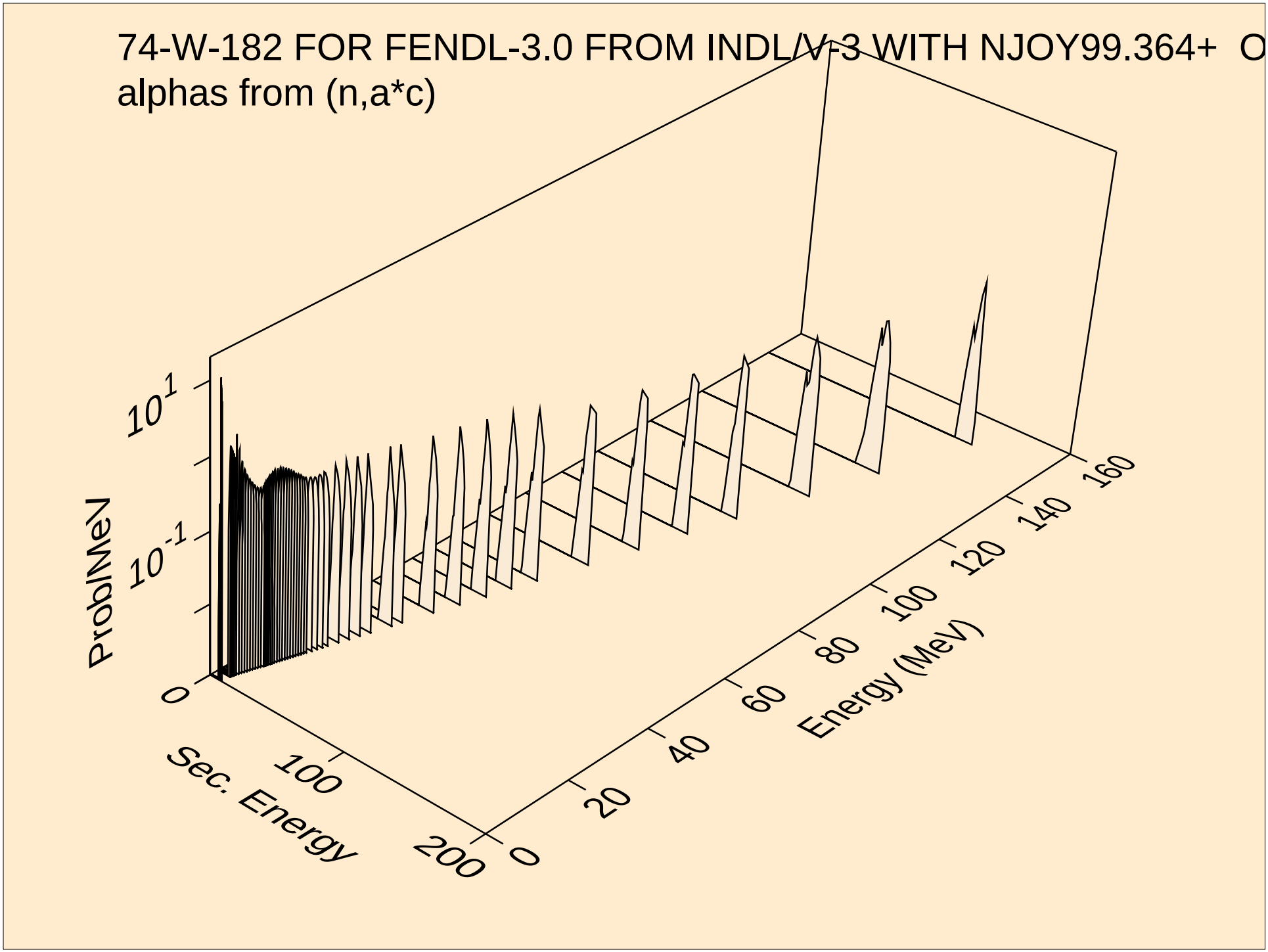

74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*4) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)


74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*5) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)


74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*5) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)


74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*6) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)


74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
angular distribution for (n,a*6) alpha
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)


74-W-182 FOR FENDL-3.0 FROM INDL/V-3 WITH NJOY99.364+ O
alphas from (n,a*c)
Prob/MeV
10^1
10^-1
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)