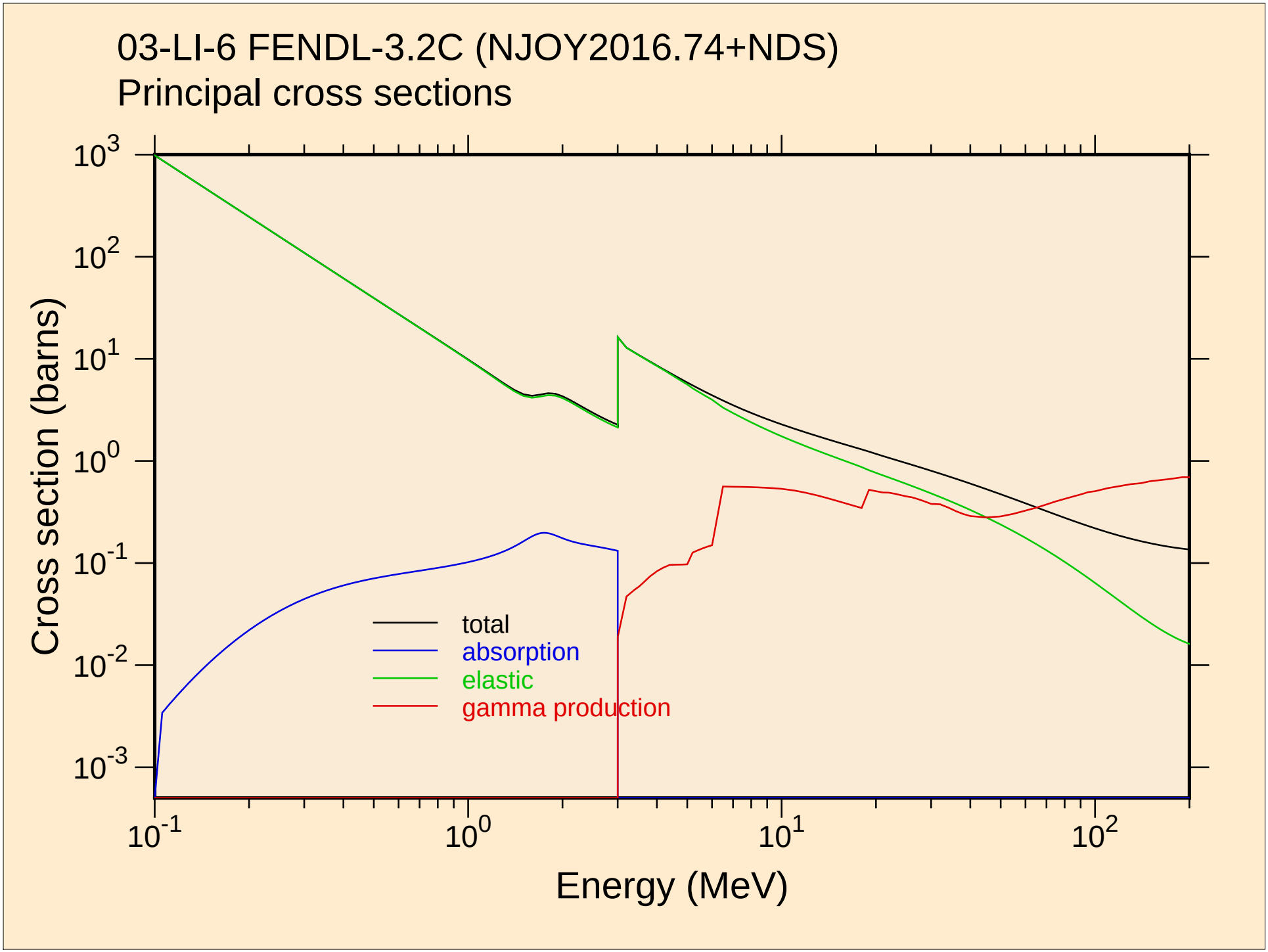
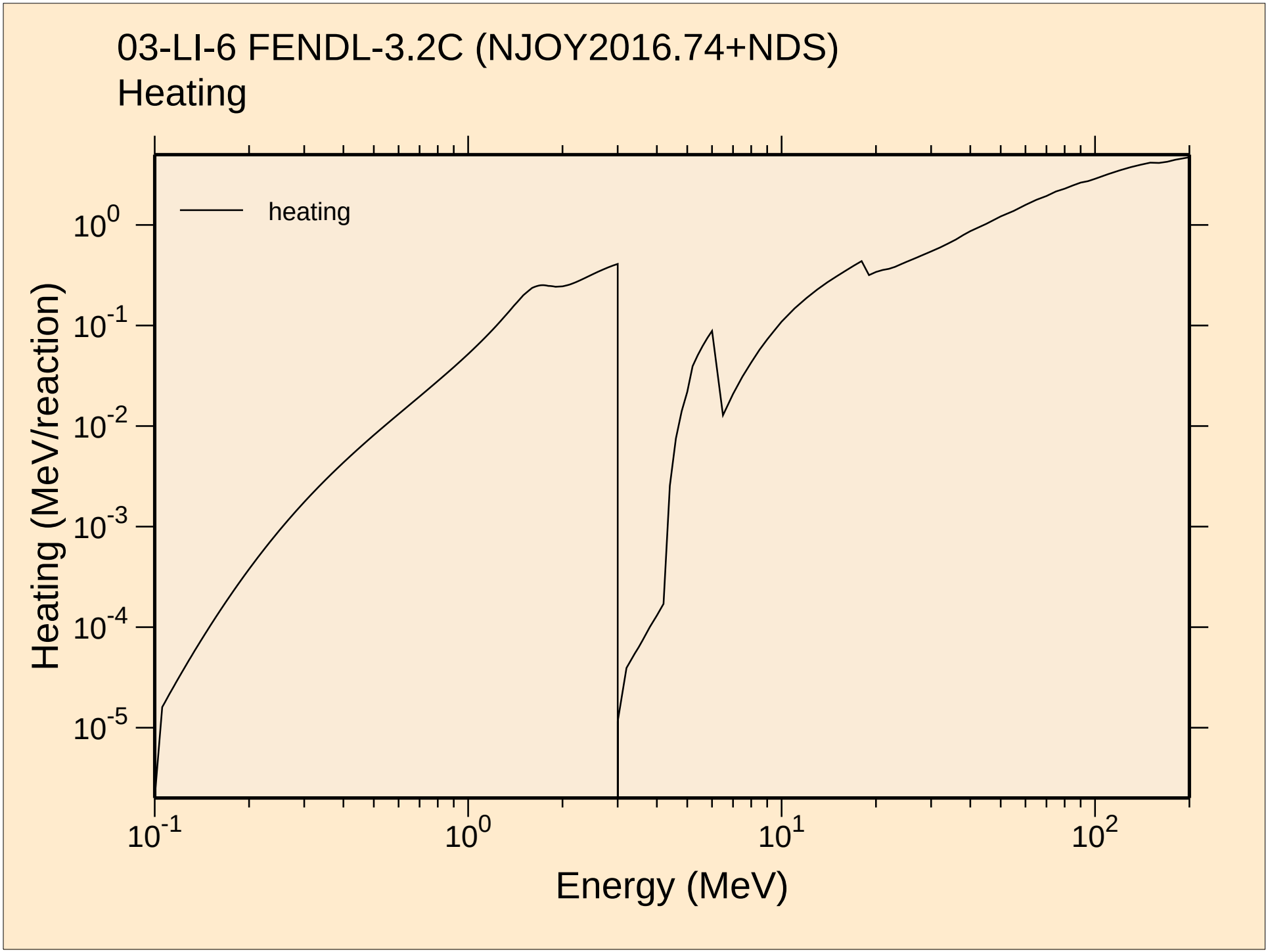
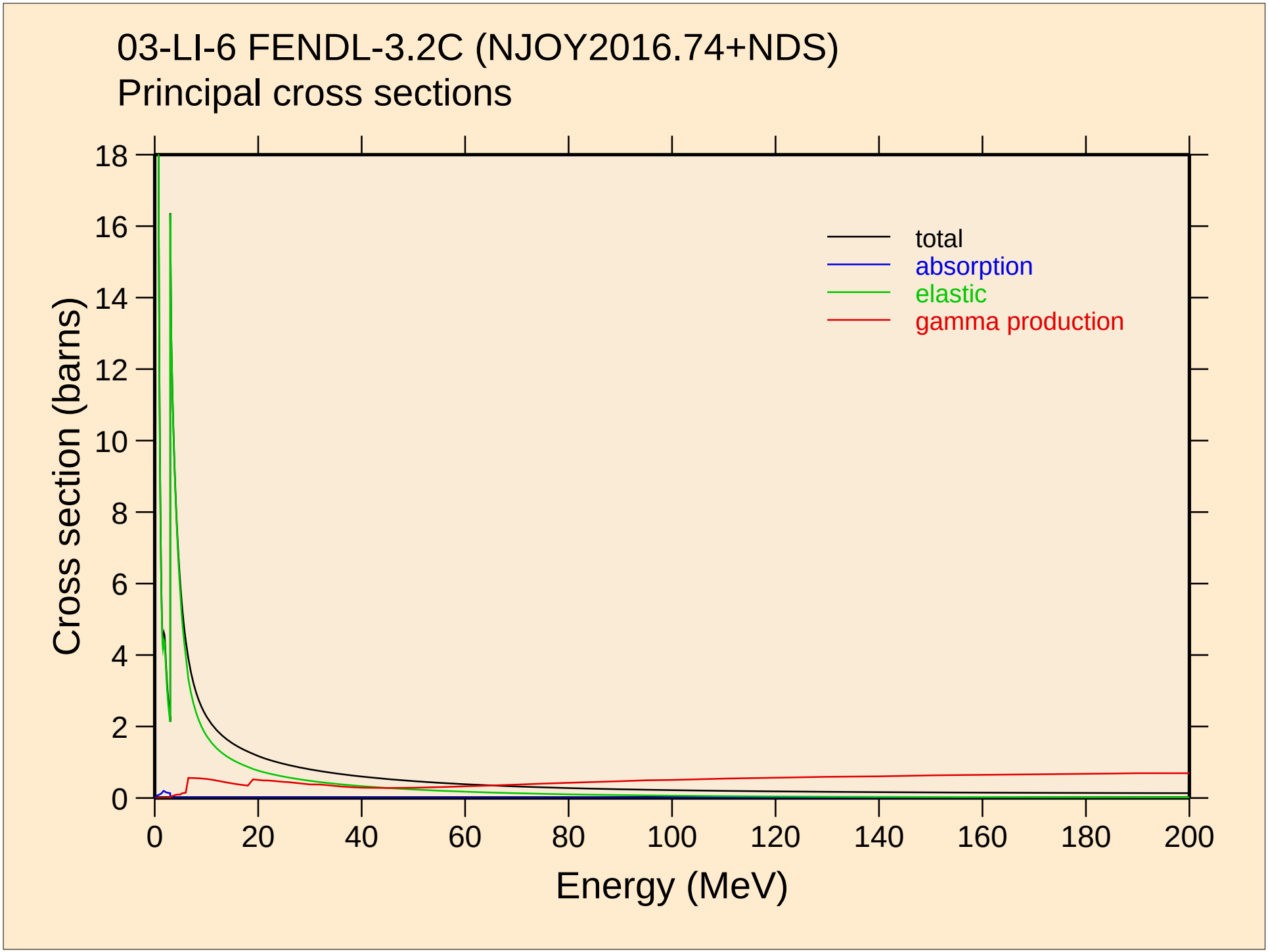
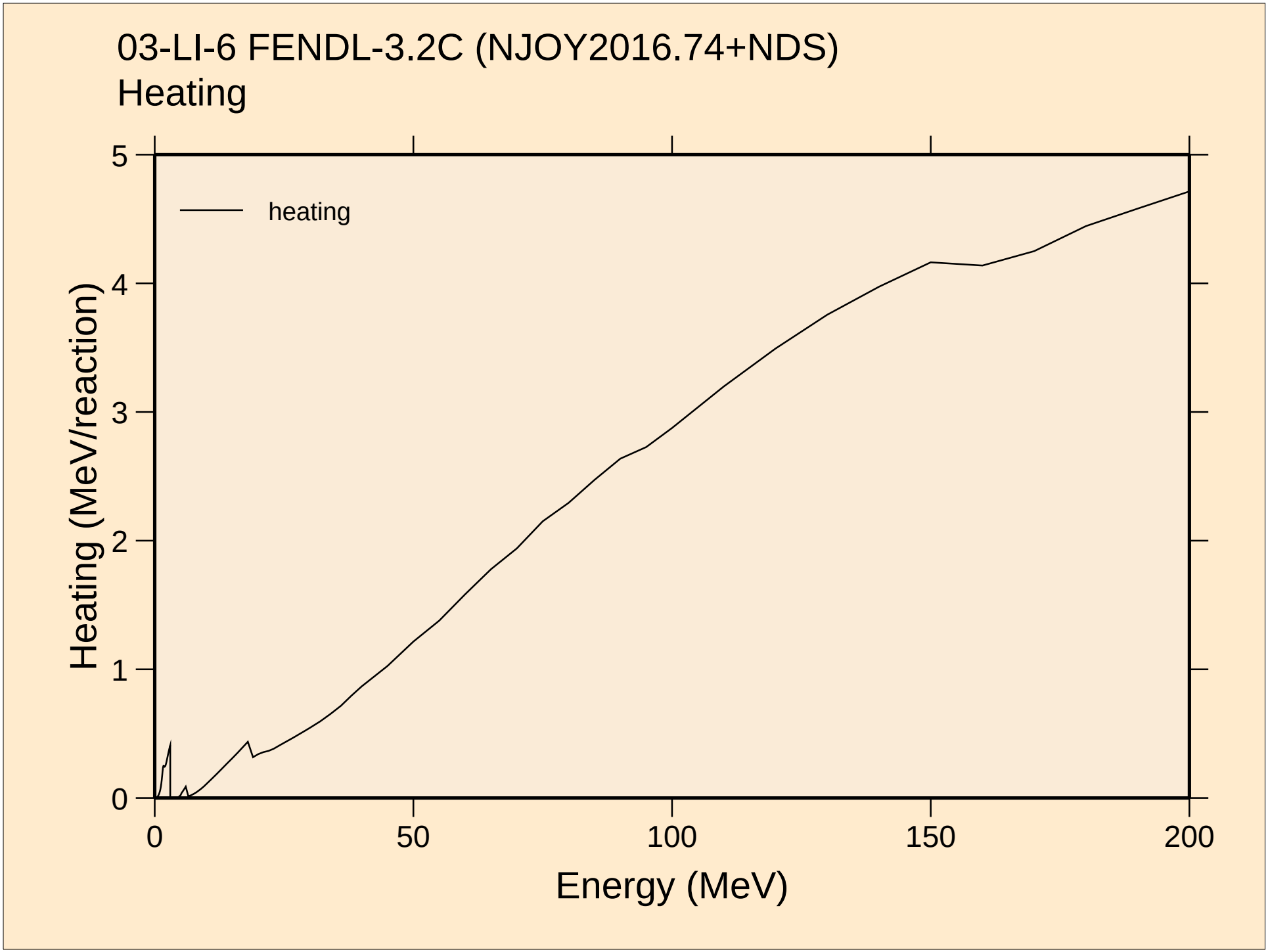
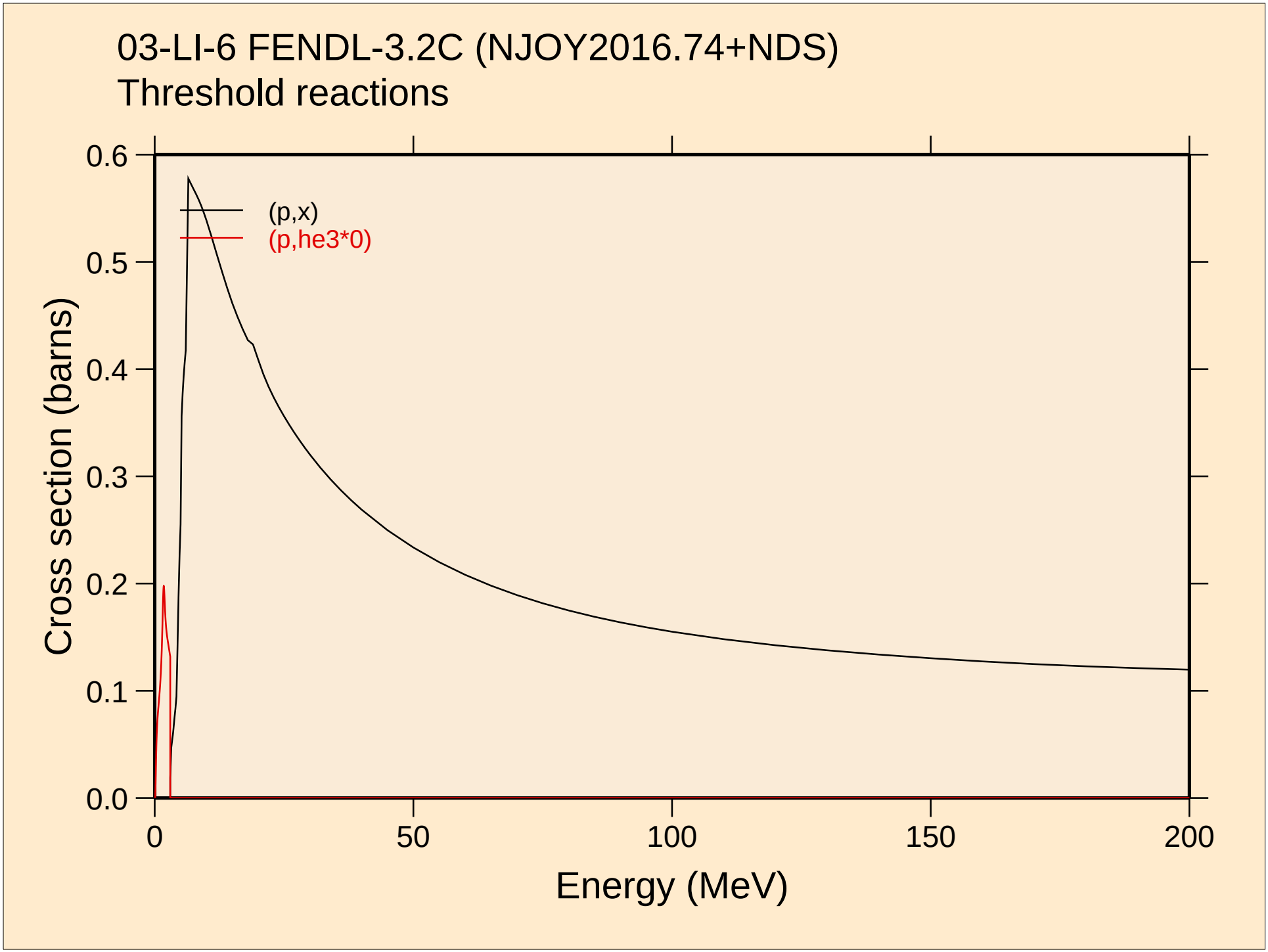
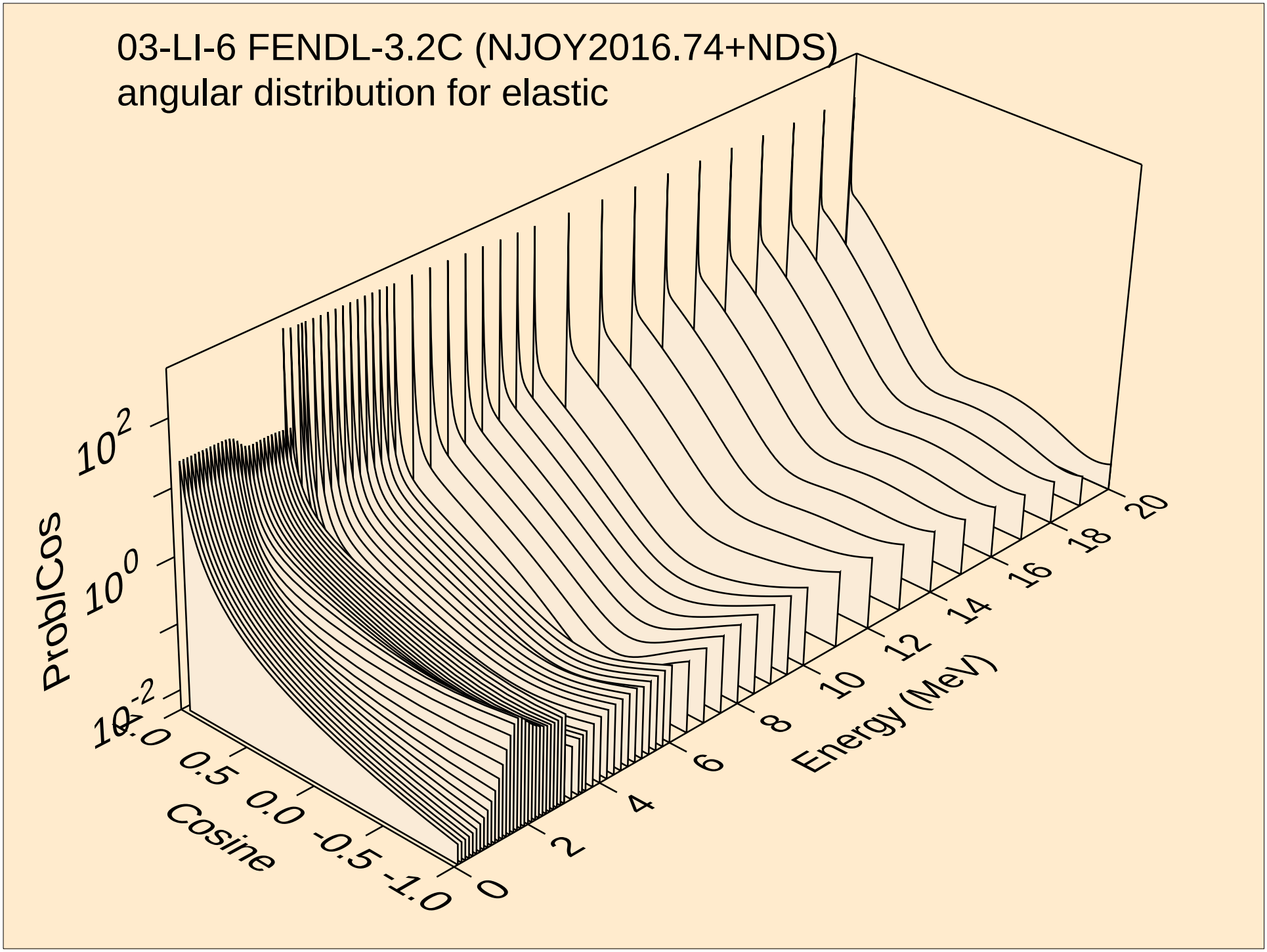

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production

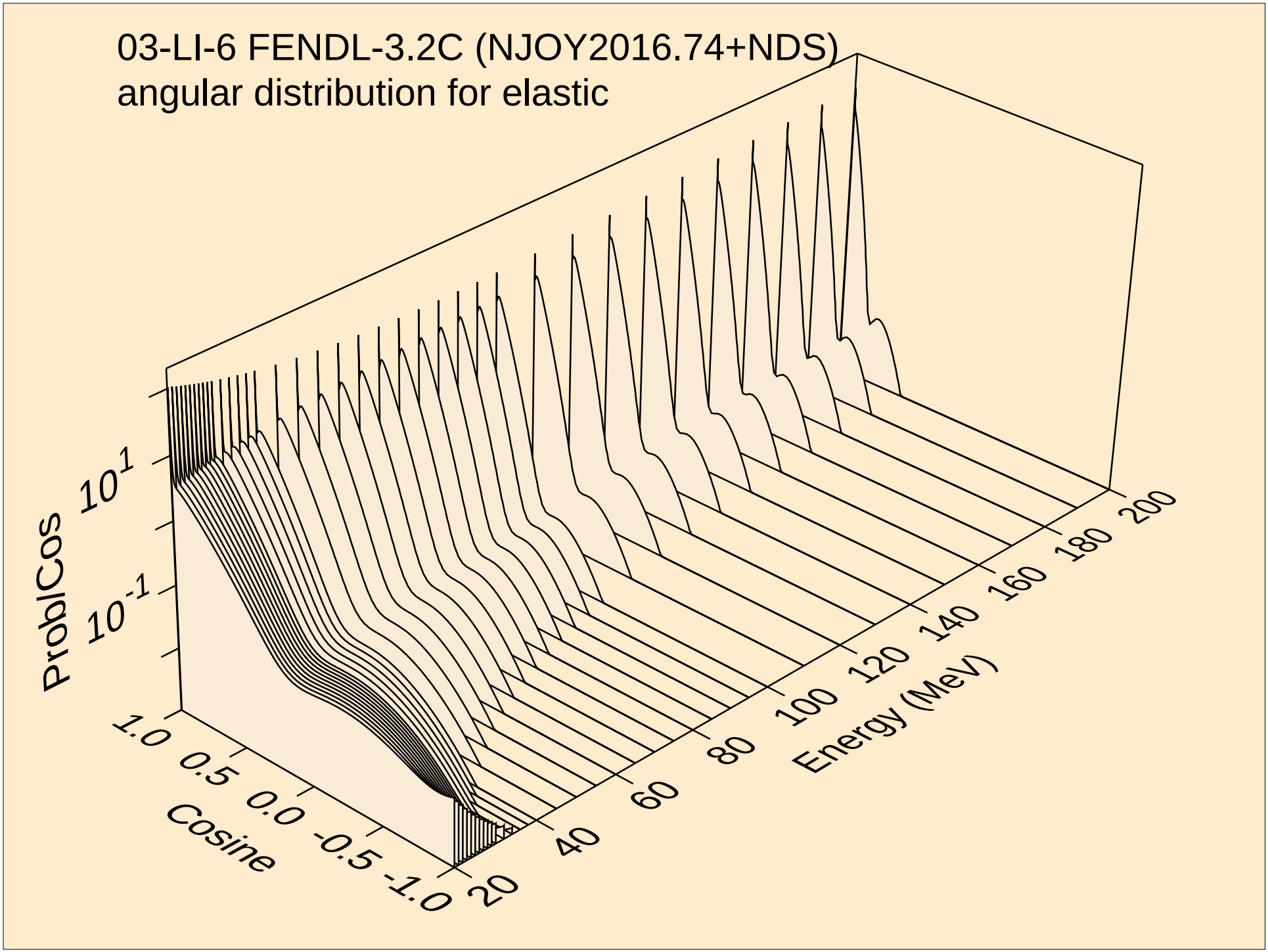

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-1
10^0
10^1
10^2

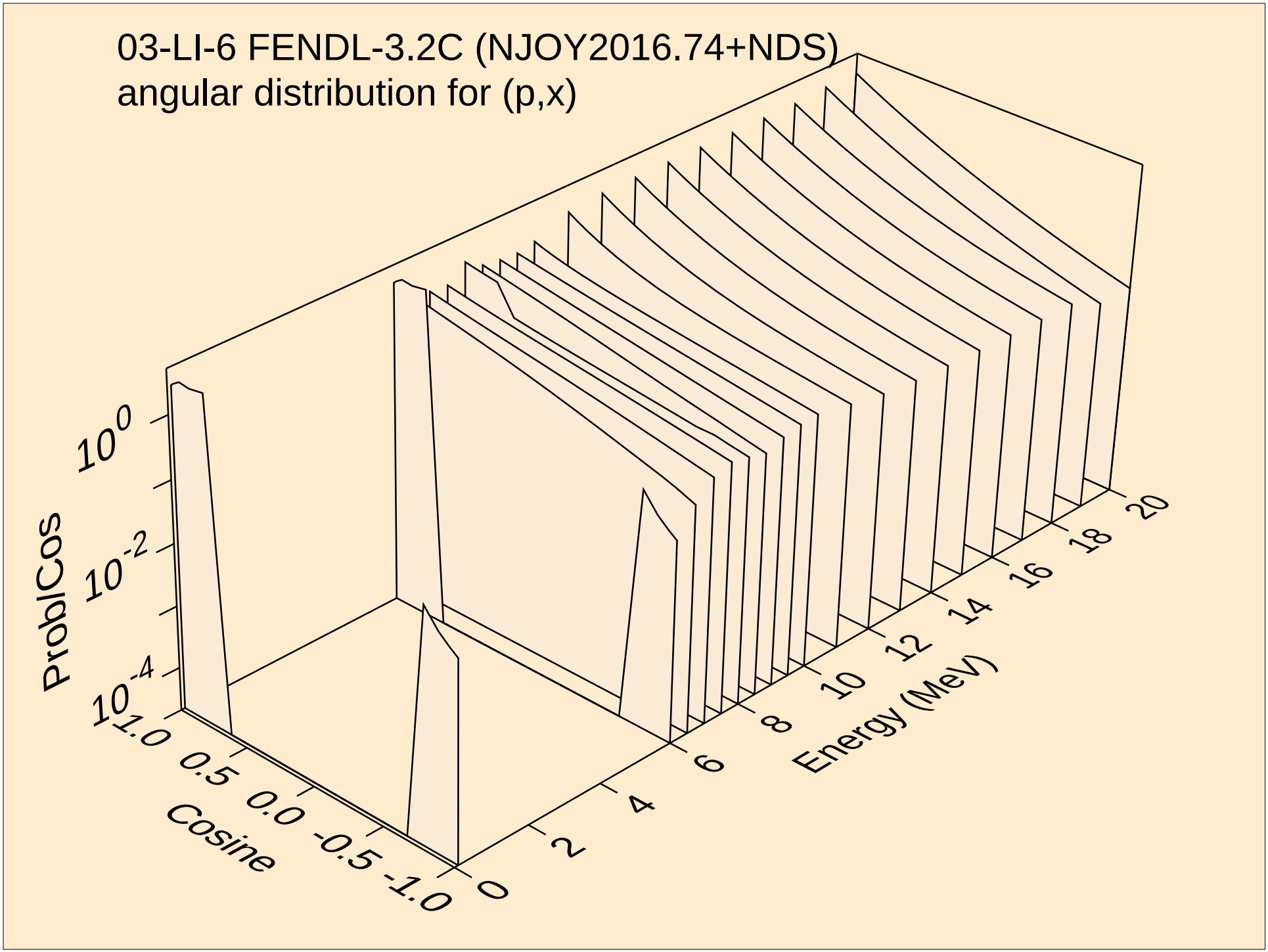

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
Principal cross sections
Cross section (barns)
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
0
20
40
60
80
100
120
140
160
180
200
total
absorption
elastic
gamma production

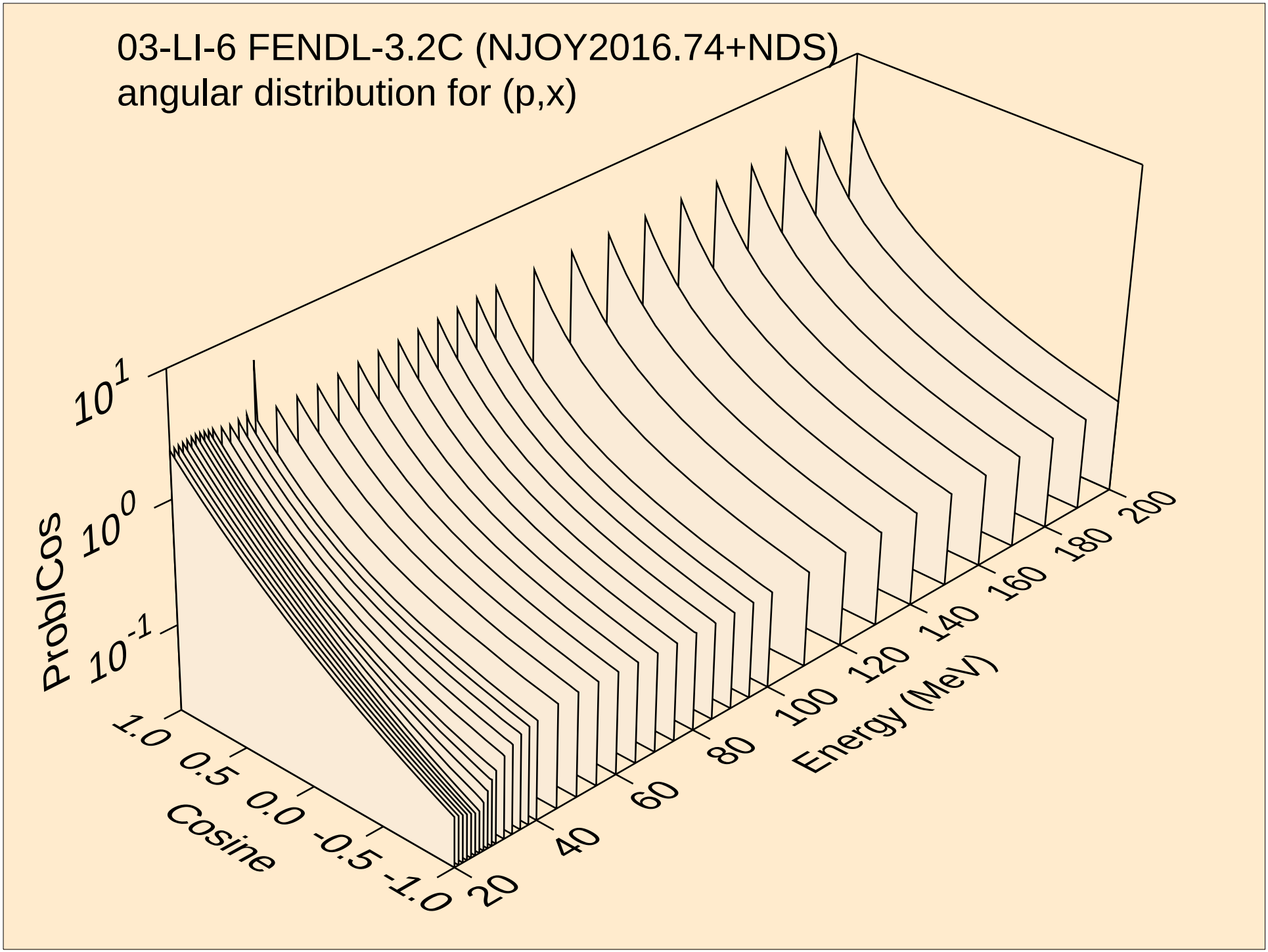

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
1
2
3
4
5
0
50
100
150
200

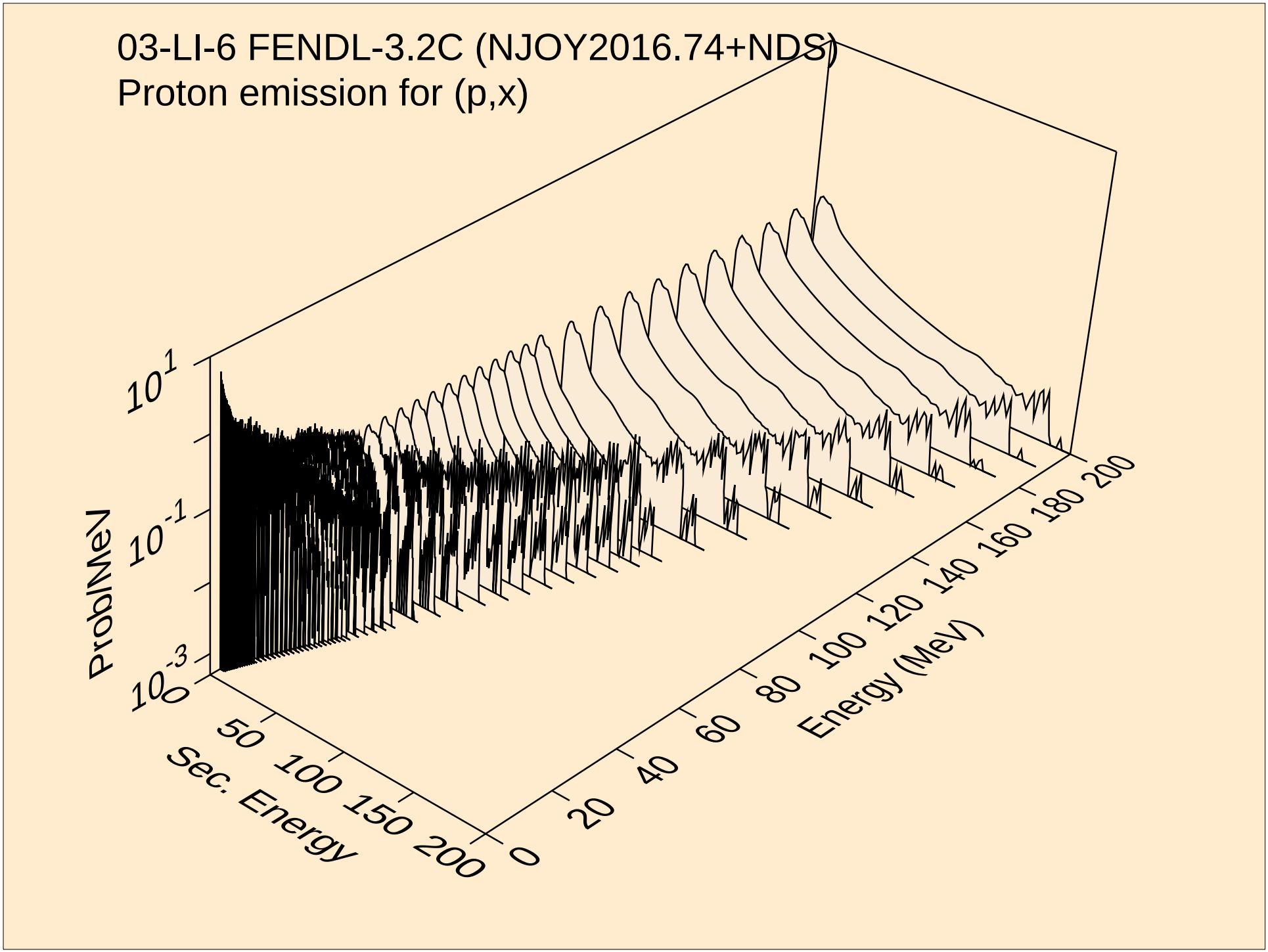

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
Threshold reactions
(p,x)
(p,he3*0)
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
50
100
150
200
Energy (MeV)

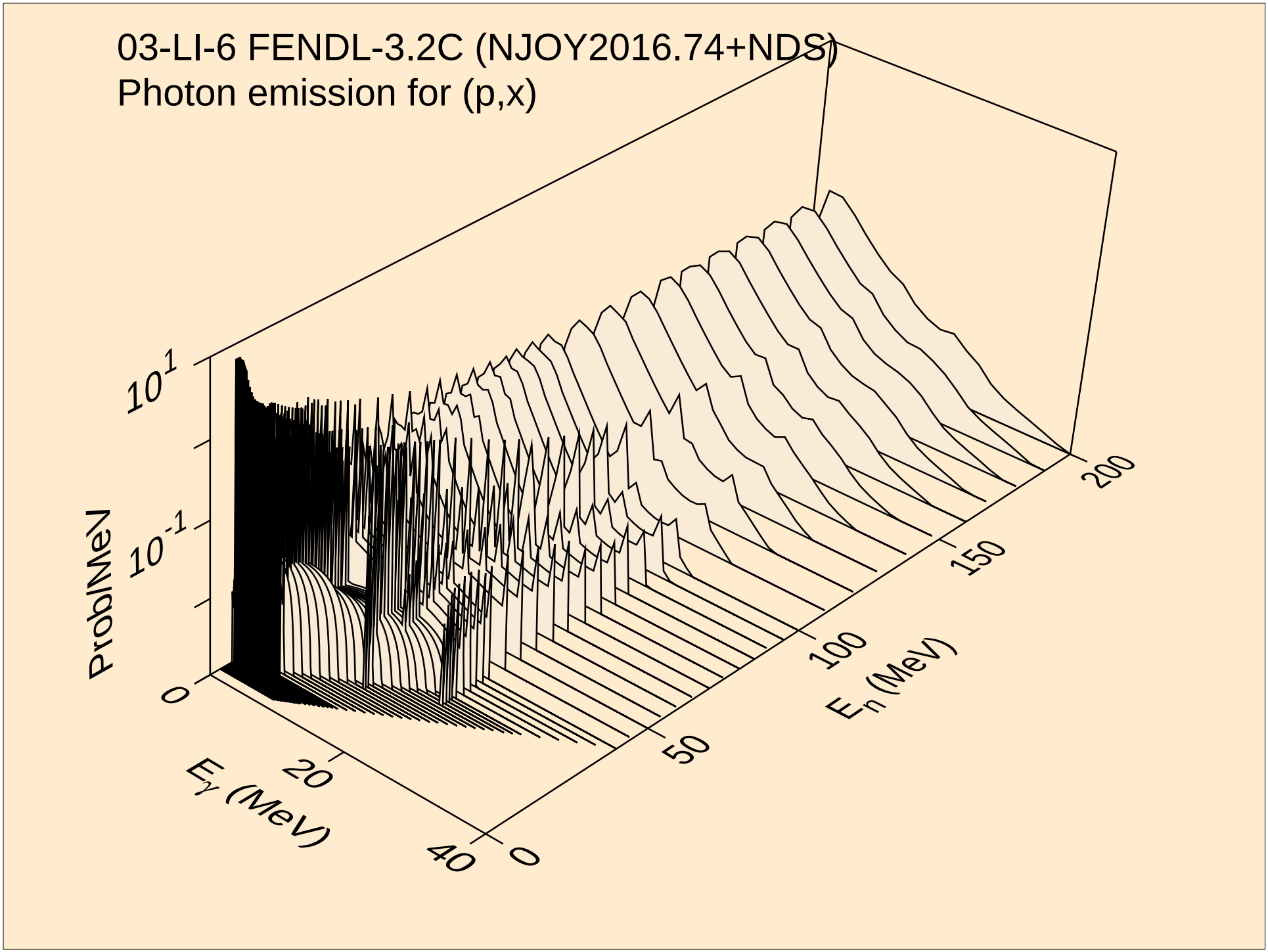

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for elastic
ProbICos
10^{2}
10^{0}
10^{-2}
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
20

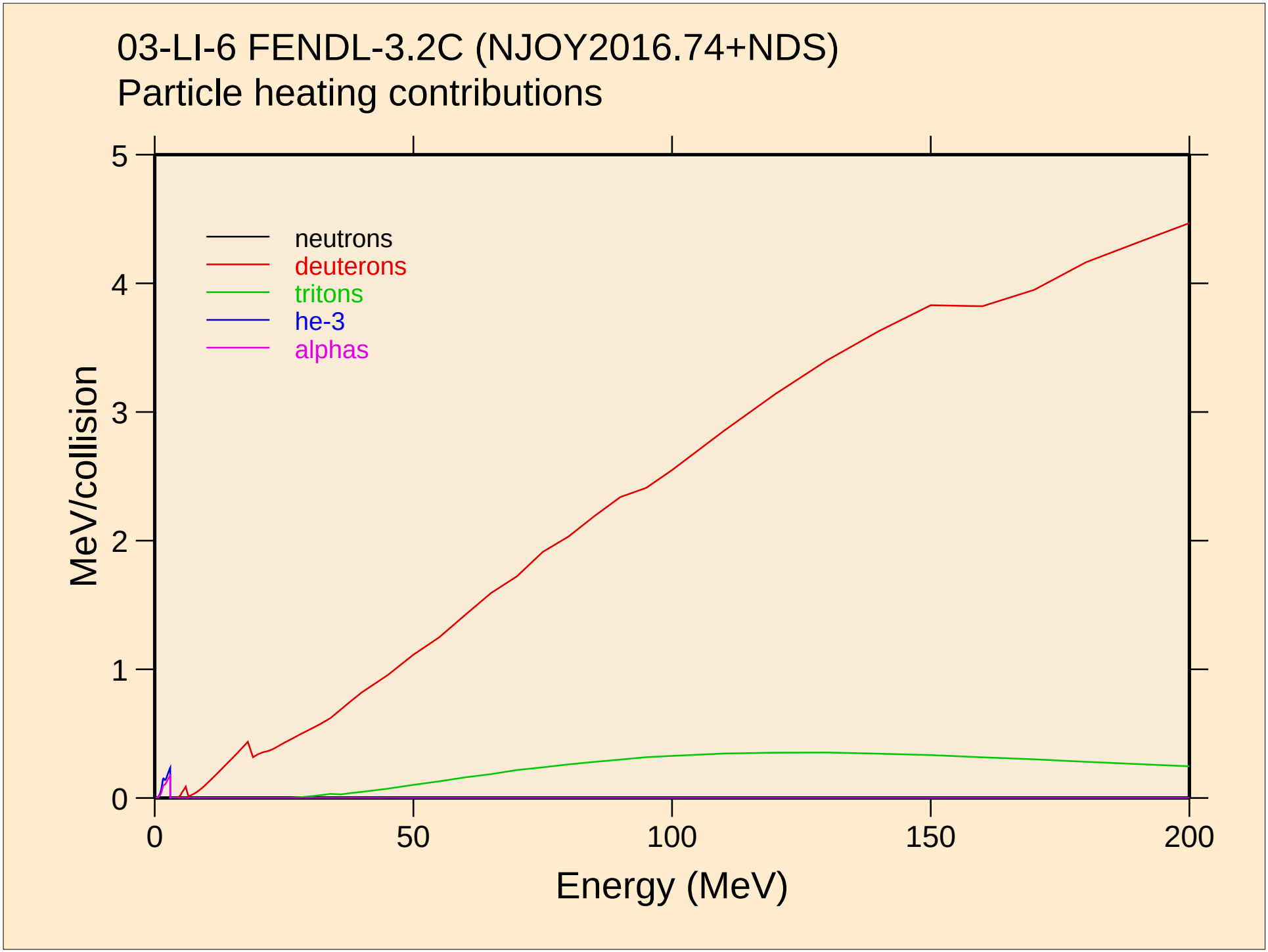

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

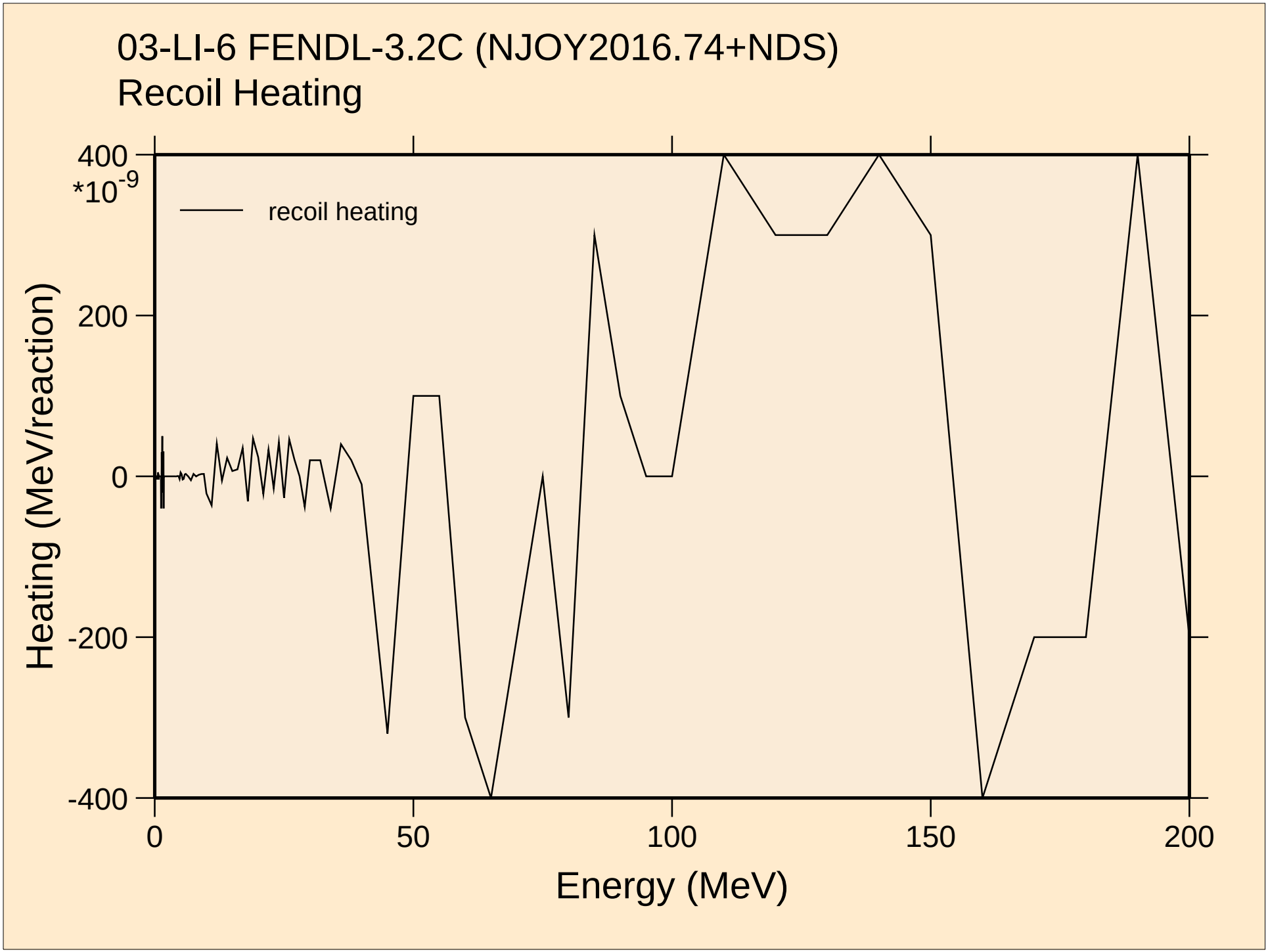

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for (p,x)
ProbICos
10^0
10^-2
10^-4
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

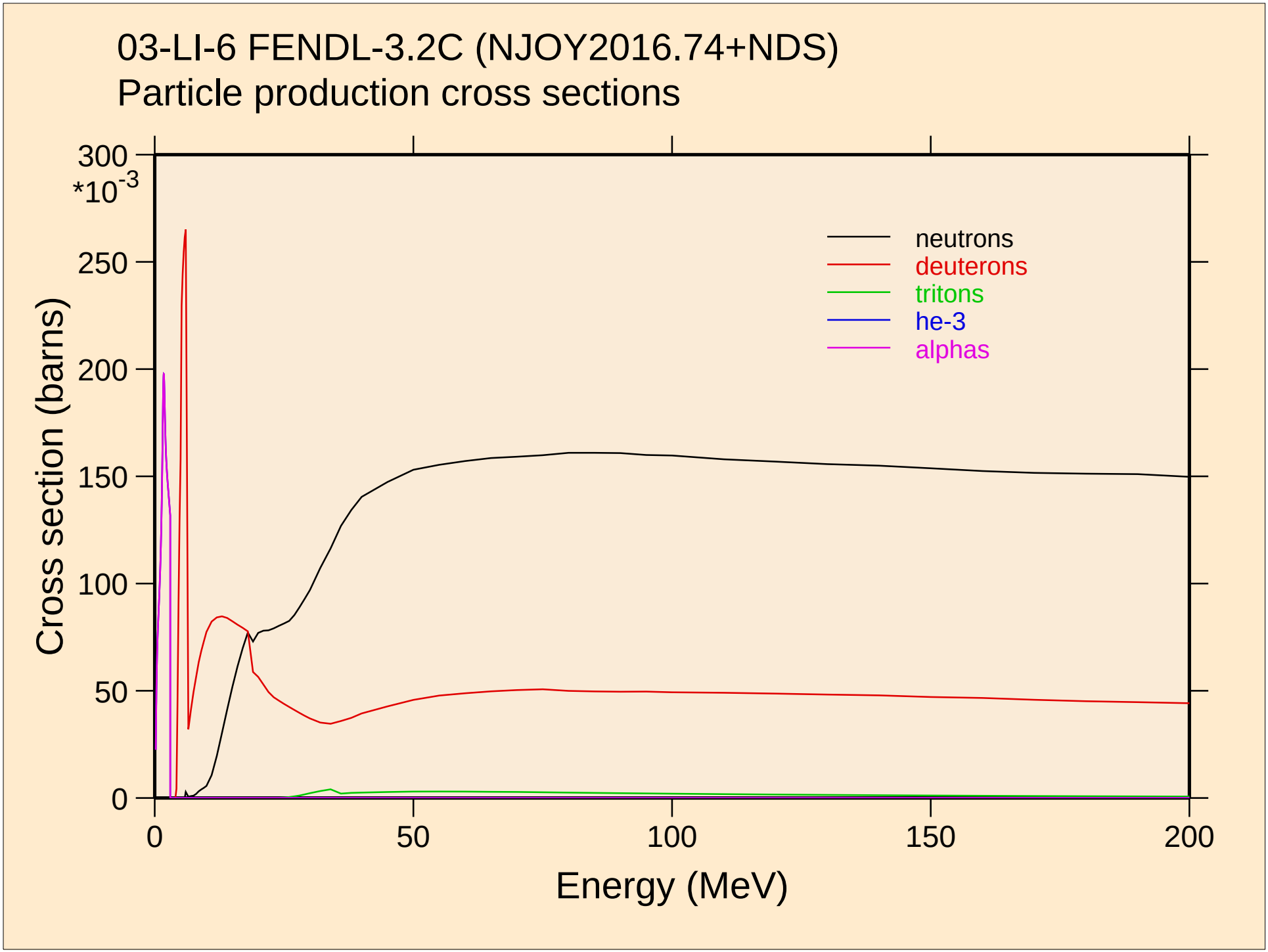

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for (p,x)
ProbICos
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

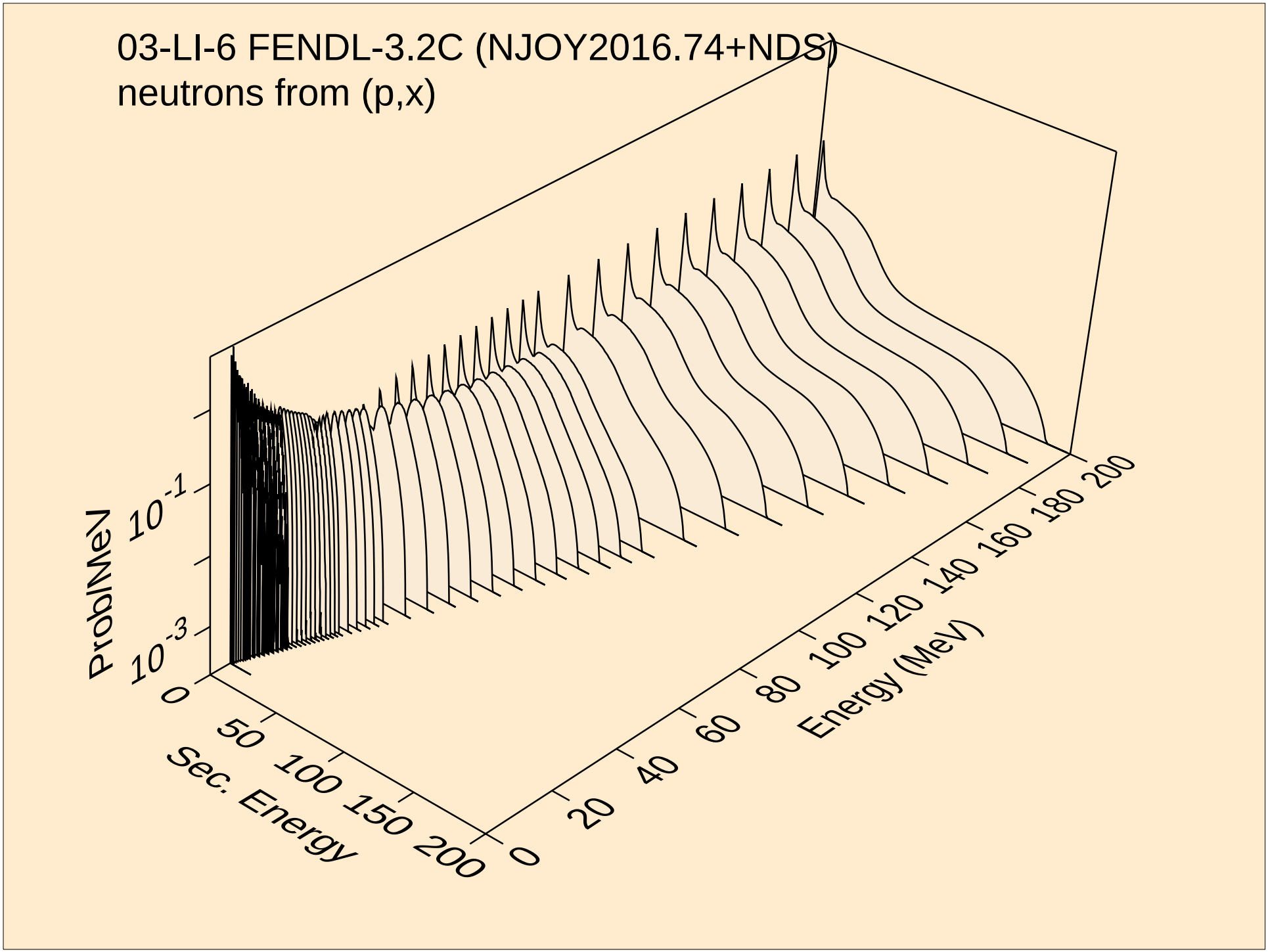

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
Proton emission for (p,x)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
50
100
150
200
Sec. Energy
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

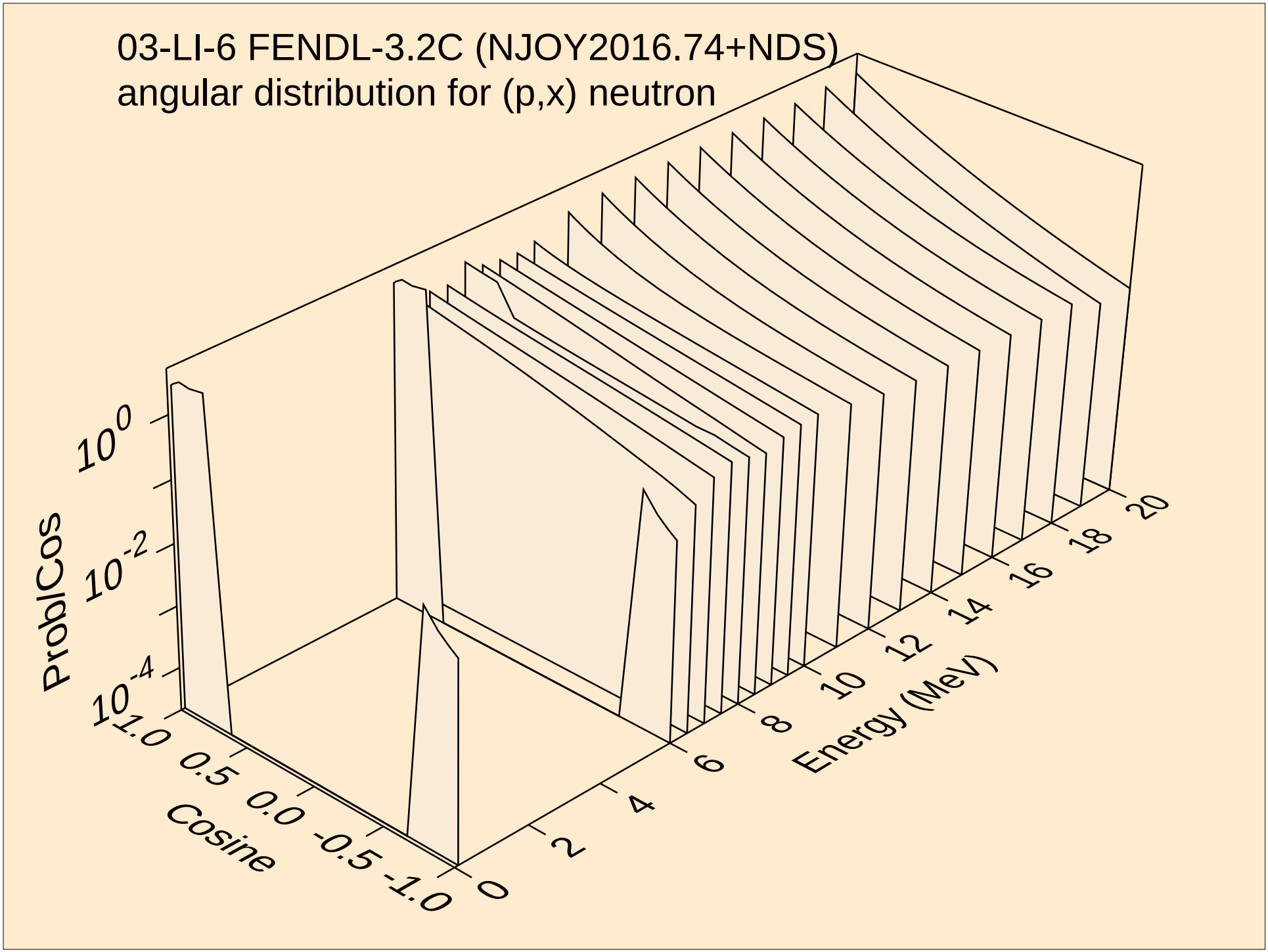

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
Photon emission for (p,x)
Prob/MeV
10^{1}
10^{-1}
0
20
40
E_γ (MeV)
0
50
100
150
200
E_n (MeV)

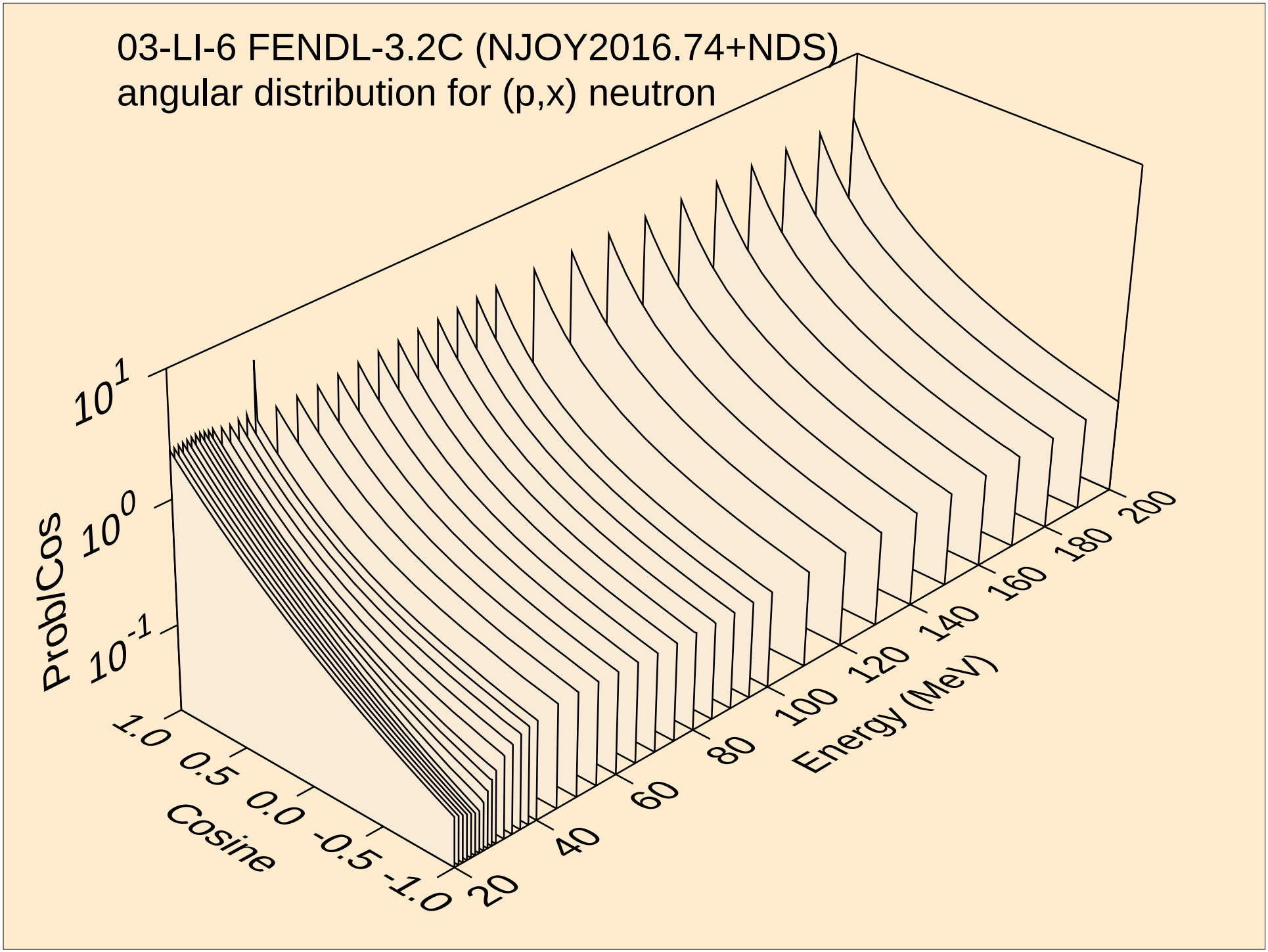

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
Particle heating contributions
neutrons
deuterons
tritons
he-3
alphas
MeV/collision
Energy (MeV)
0
1
2
3
4
5
0
50
100
150
200

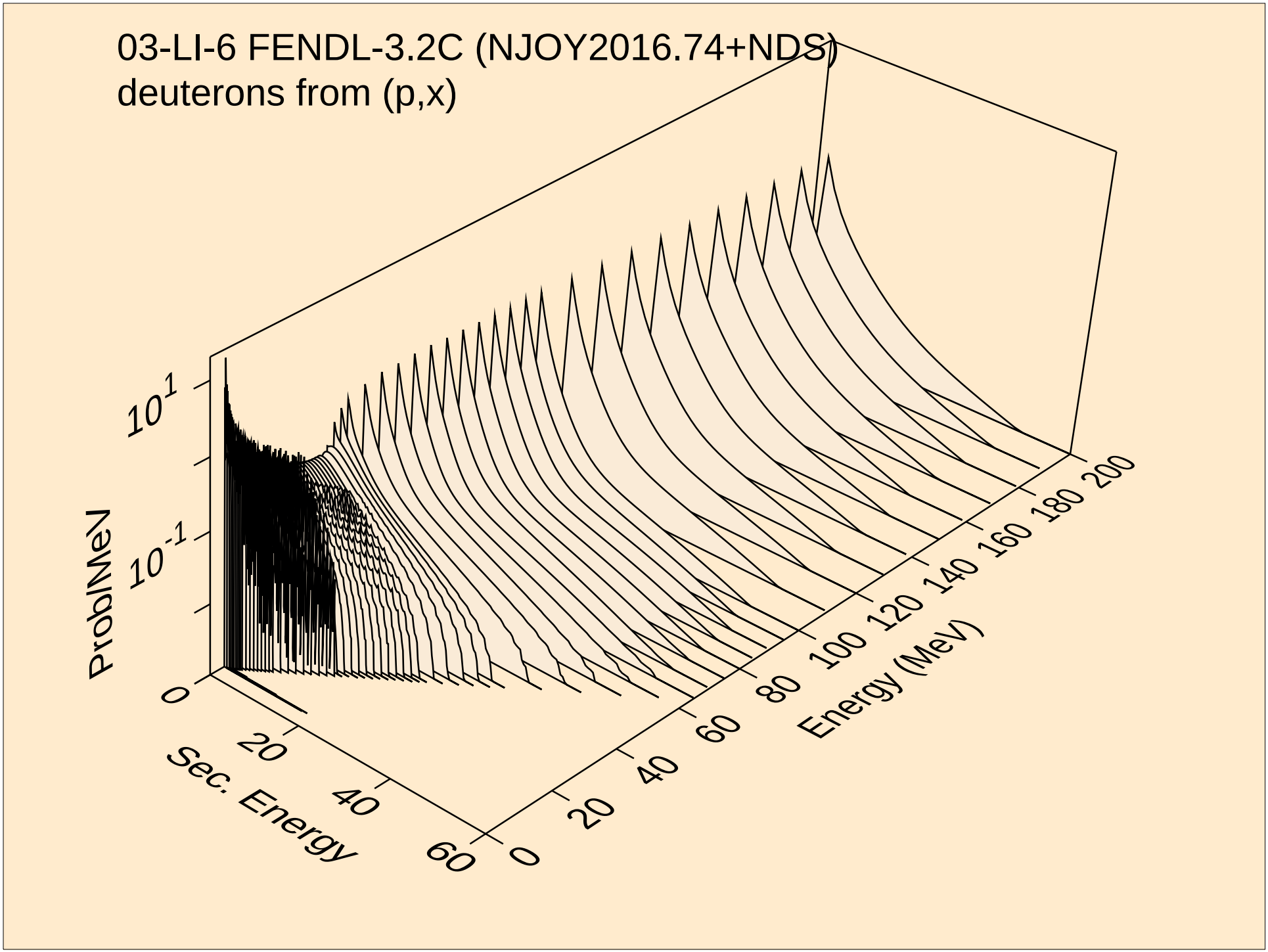

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
Recoil Heating
400
*10-9
200
0
-200
-400
recoil heating
Heating (MeV/reaction)
0
50
100
150
200
Energy (MeV)

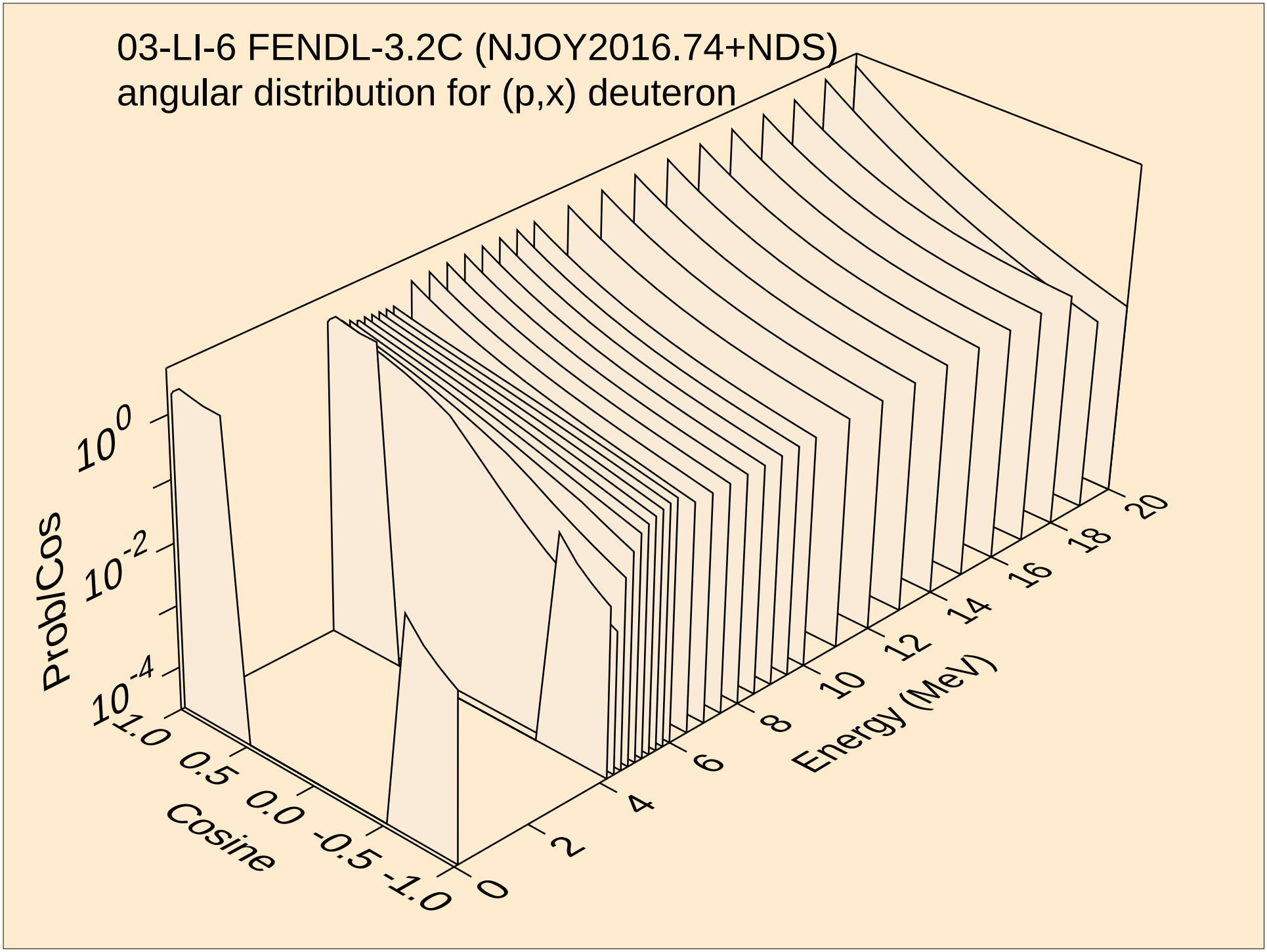

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
Particle production cross sections
300
*10-3
250
200
150
100
50
0
Cross section (barns)
0
50
100
150
200
Energy (MeV)
neutrons
deuterons
tritons
he-3
alphas

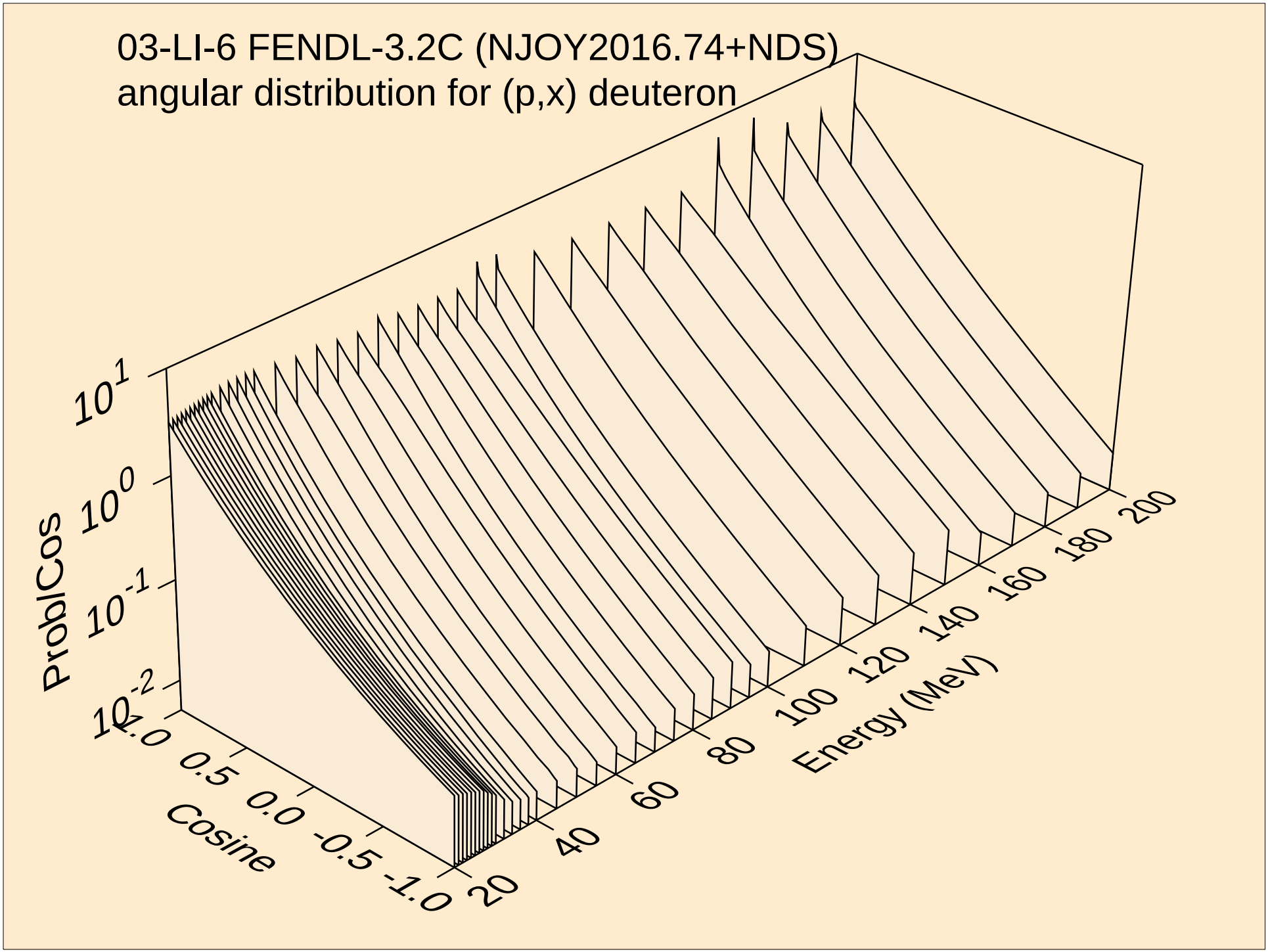

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
neutrons from (p,x)
Prob/MeV
10-1
10-3
0
50
100
150
200
Sec. Energy
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

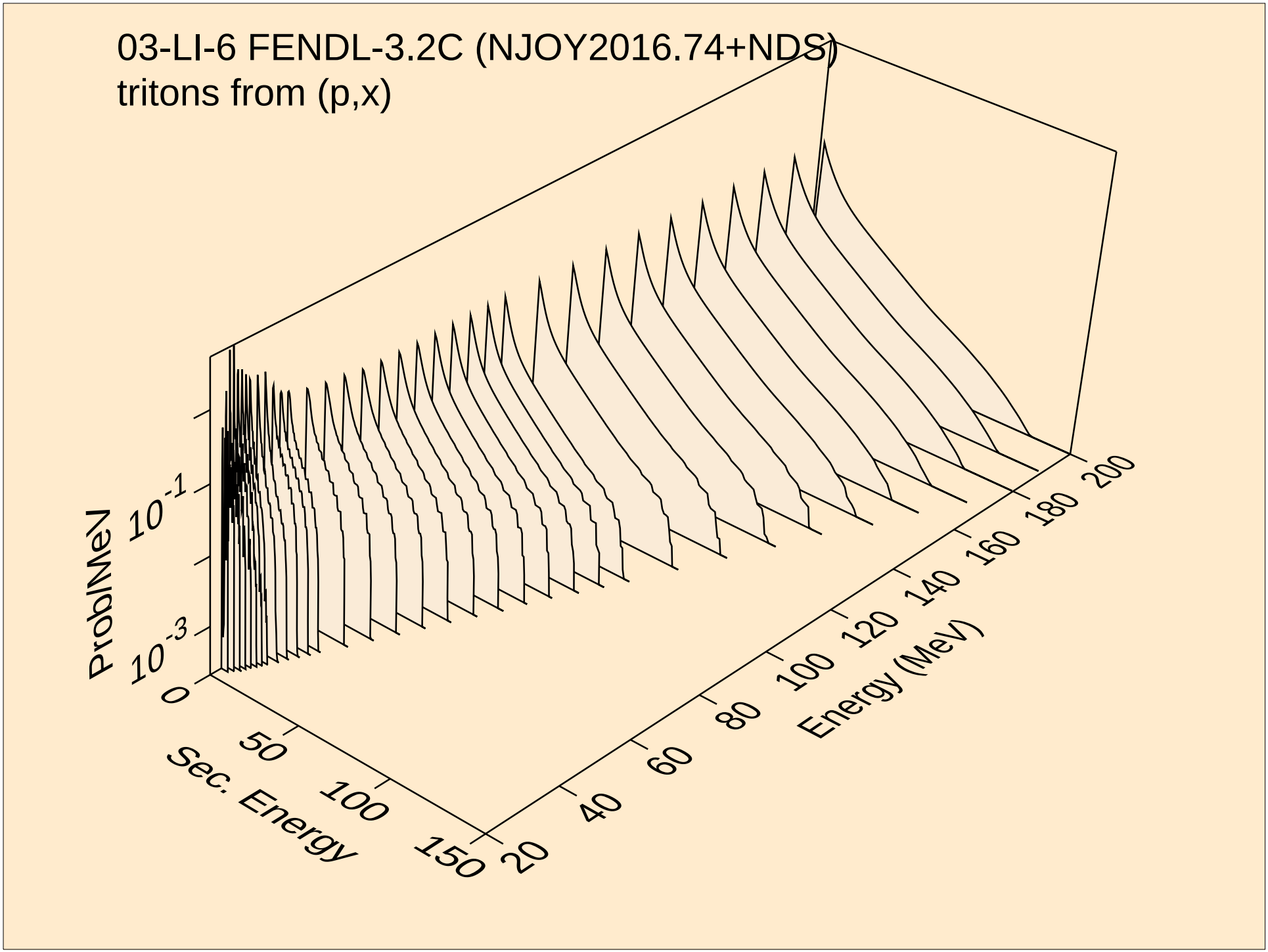

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for (p,x) neutron
ProbICos
10^0
10^-2
10^-4
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

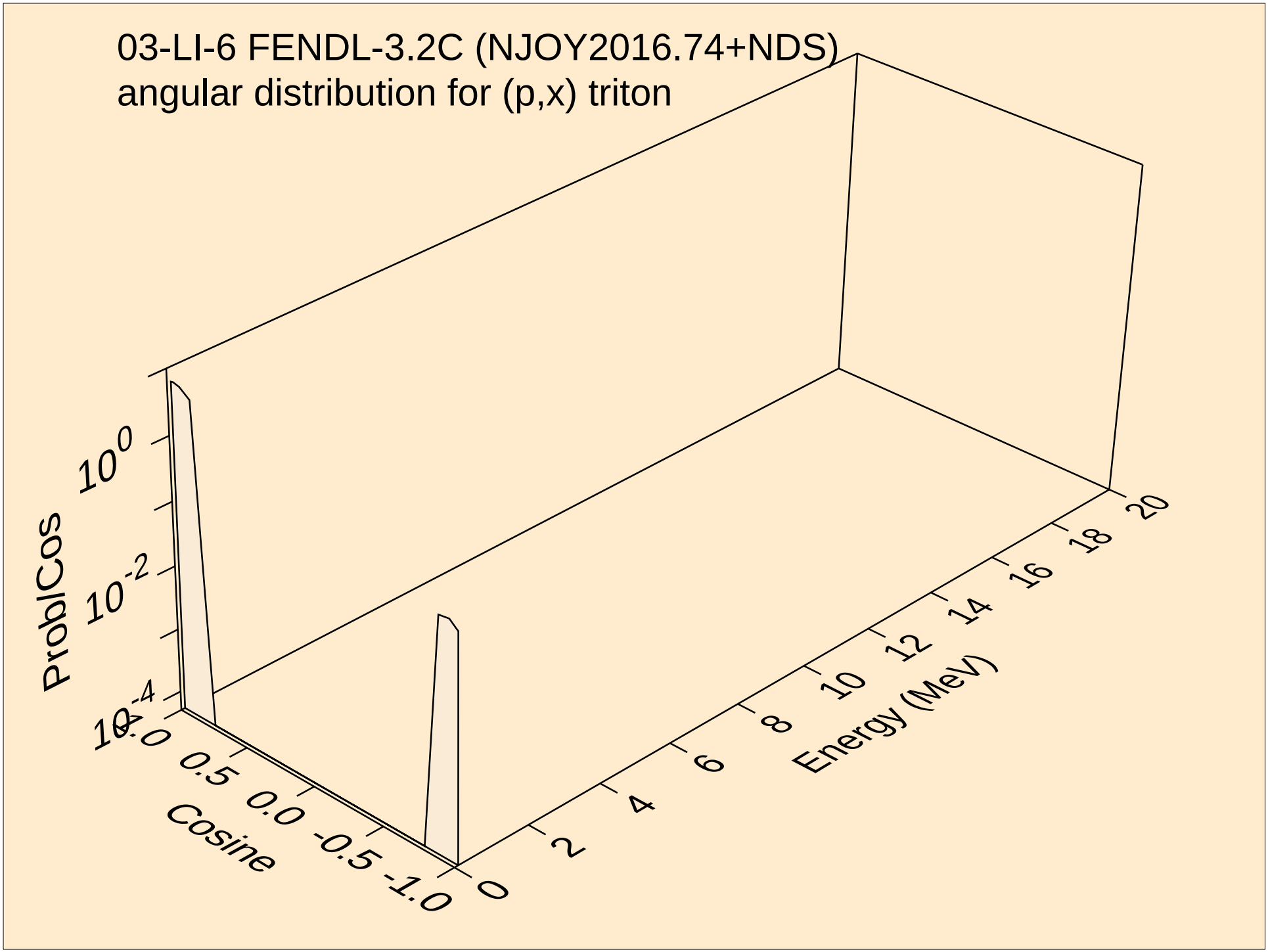

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for (p,x) neutron
ProbICos
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

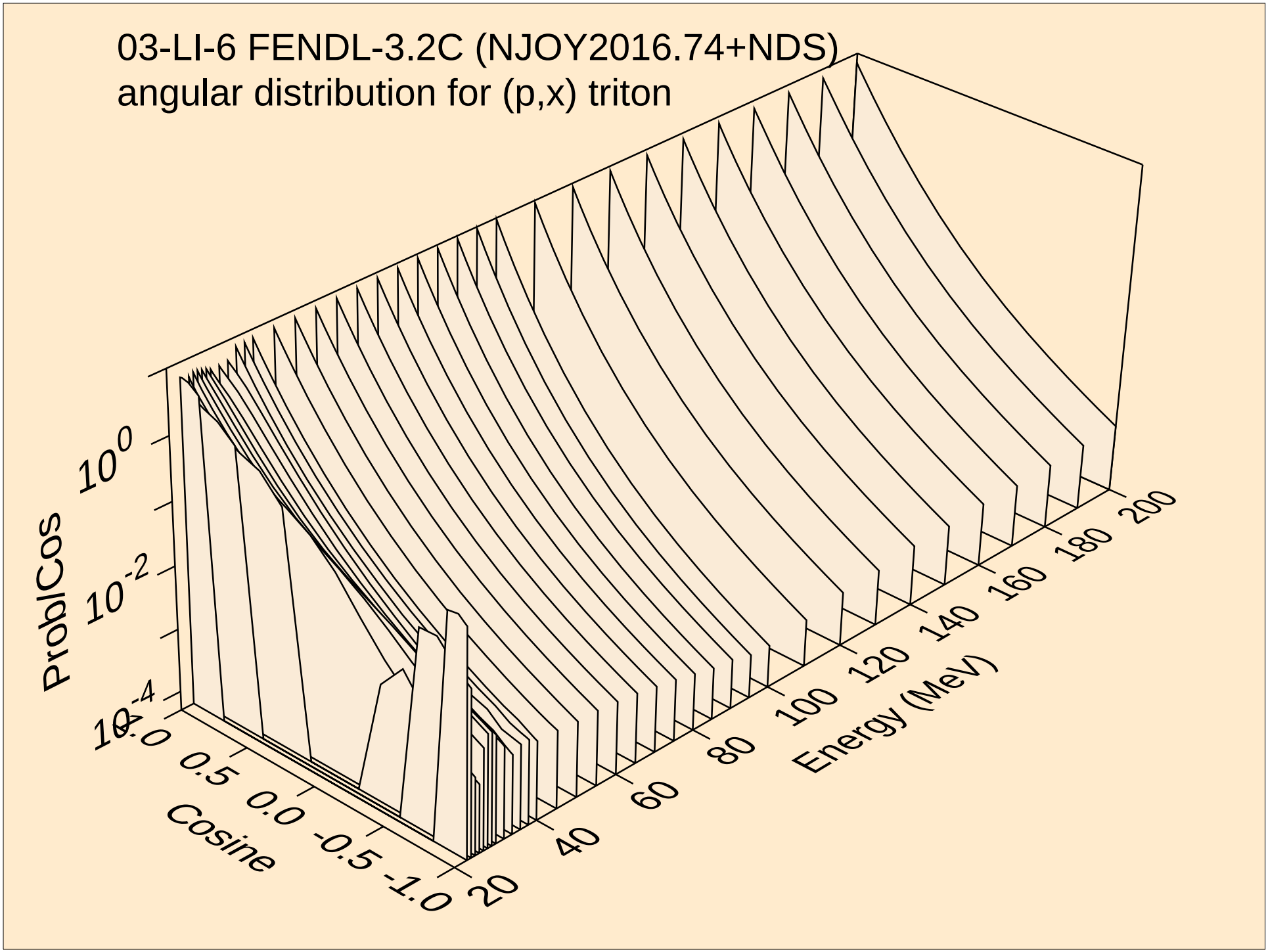

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
deuterons from (p,x)
Prob/MeV
10^1
10^-1
0
20
40
60
Sec. Energy
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

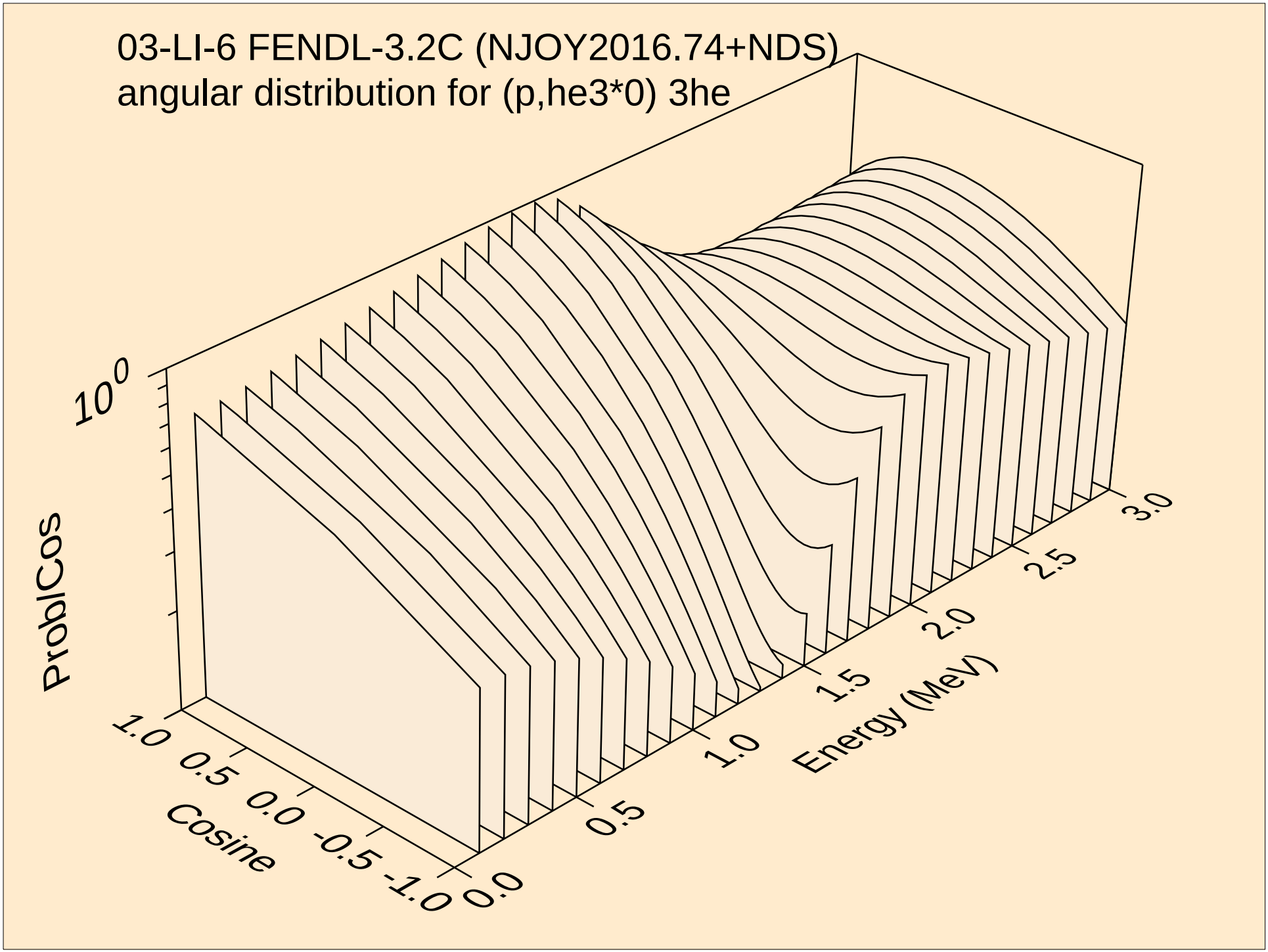

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for (p,x) deuteron
ProbICos
10^0
10^-2
10^-4
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

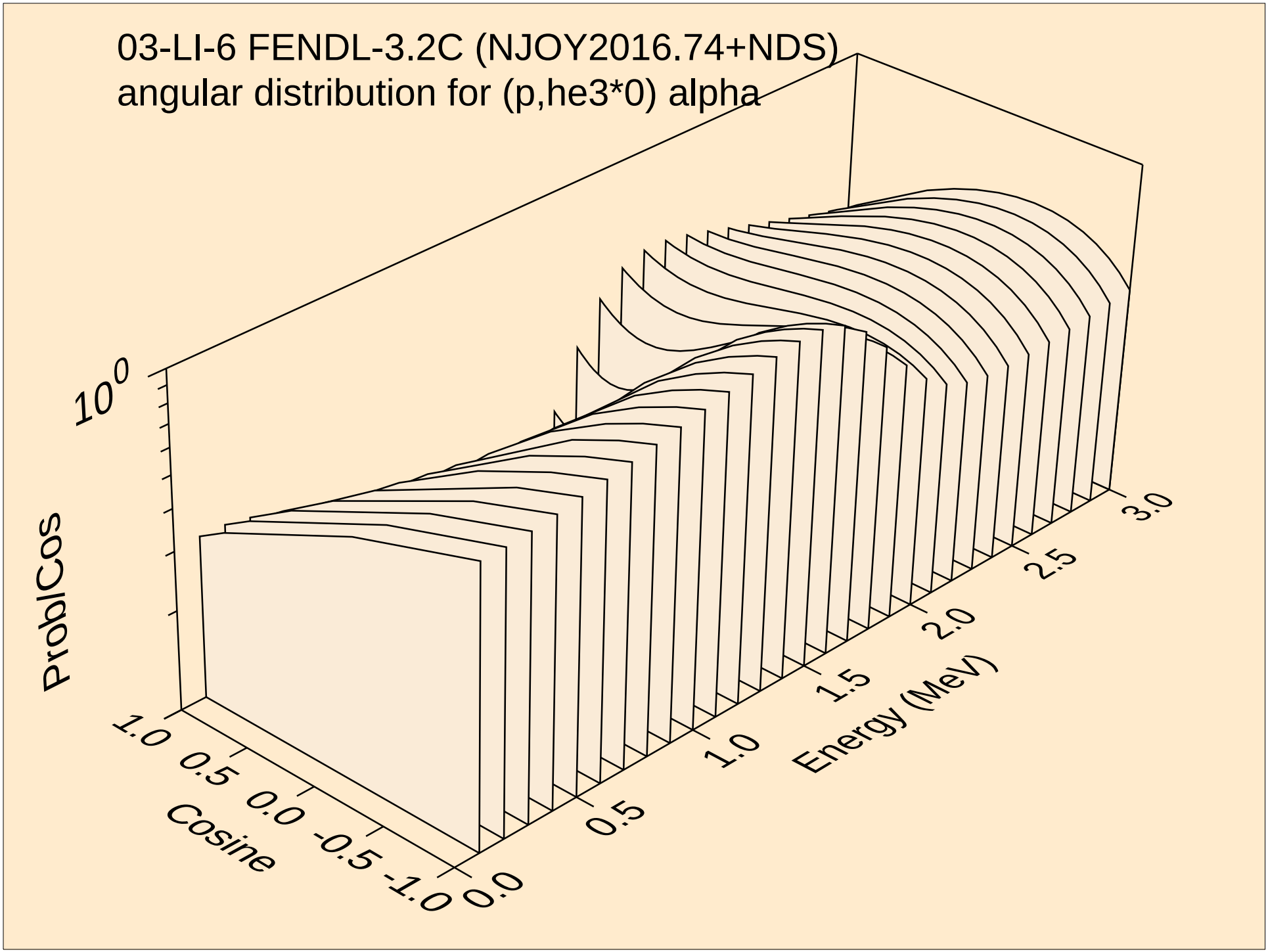

03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for (p,x) deuteron
ProbCos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)


03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
tritons from (p,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
50
100
150
20
40
60
80
100
120
140
160
180
200
Energy (MeV)


03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for (p,x) triton
Prob\Cos
10^{0}
10^{-2}
10^{-4}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for (p,x) triton
ProbICos
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
180
200
Energy (MeV)


03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for (p,he3*0) 3he
10^0
ProblCos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Energy (MeV)


03-LI-6 FENDL-3.2C (NJOY2016.74+NDS)
angular distribution for (p,he3*0) alpha
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Energy (MeV)