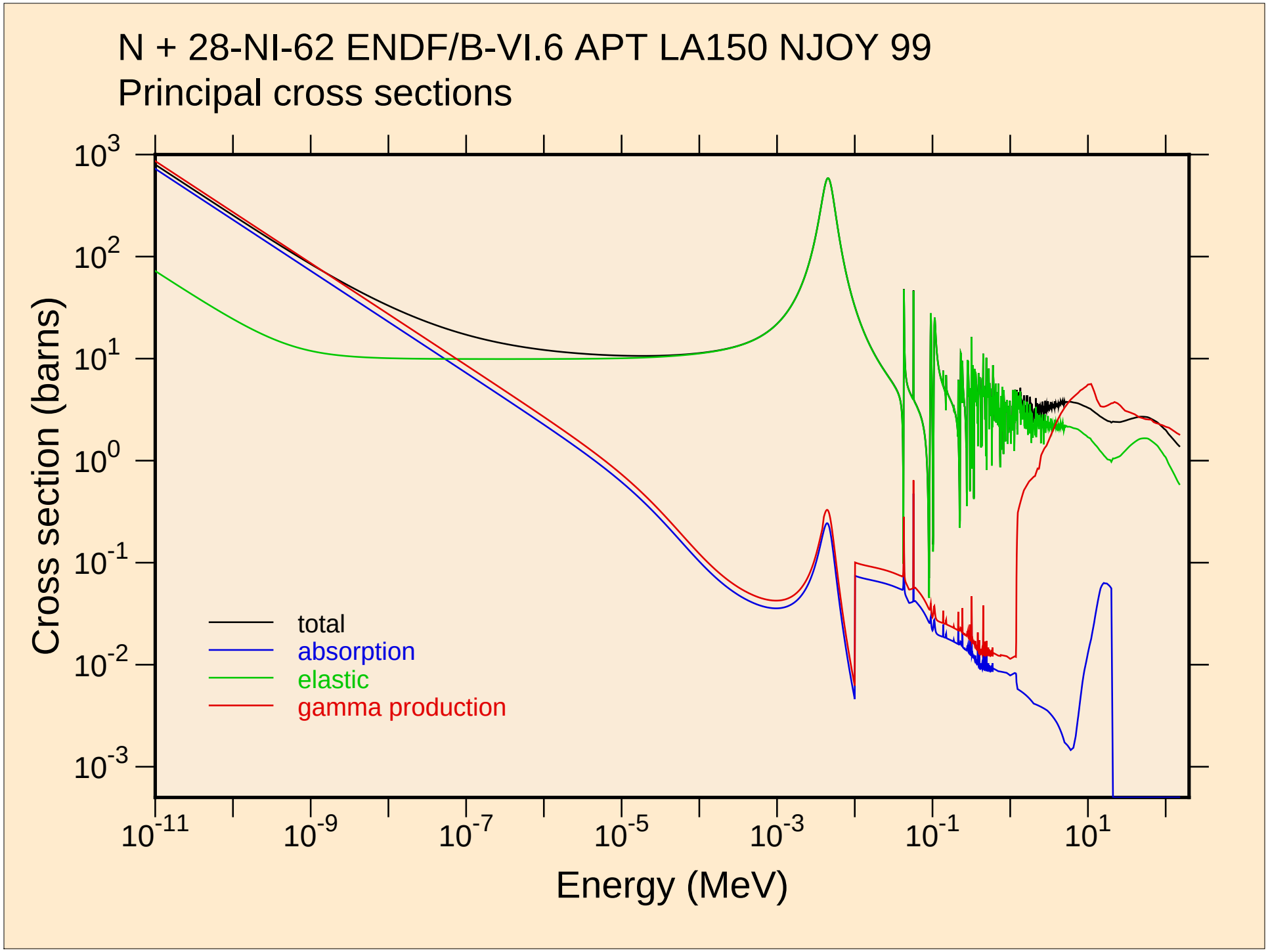
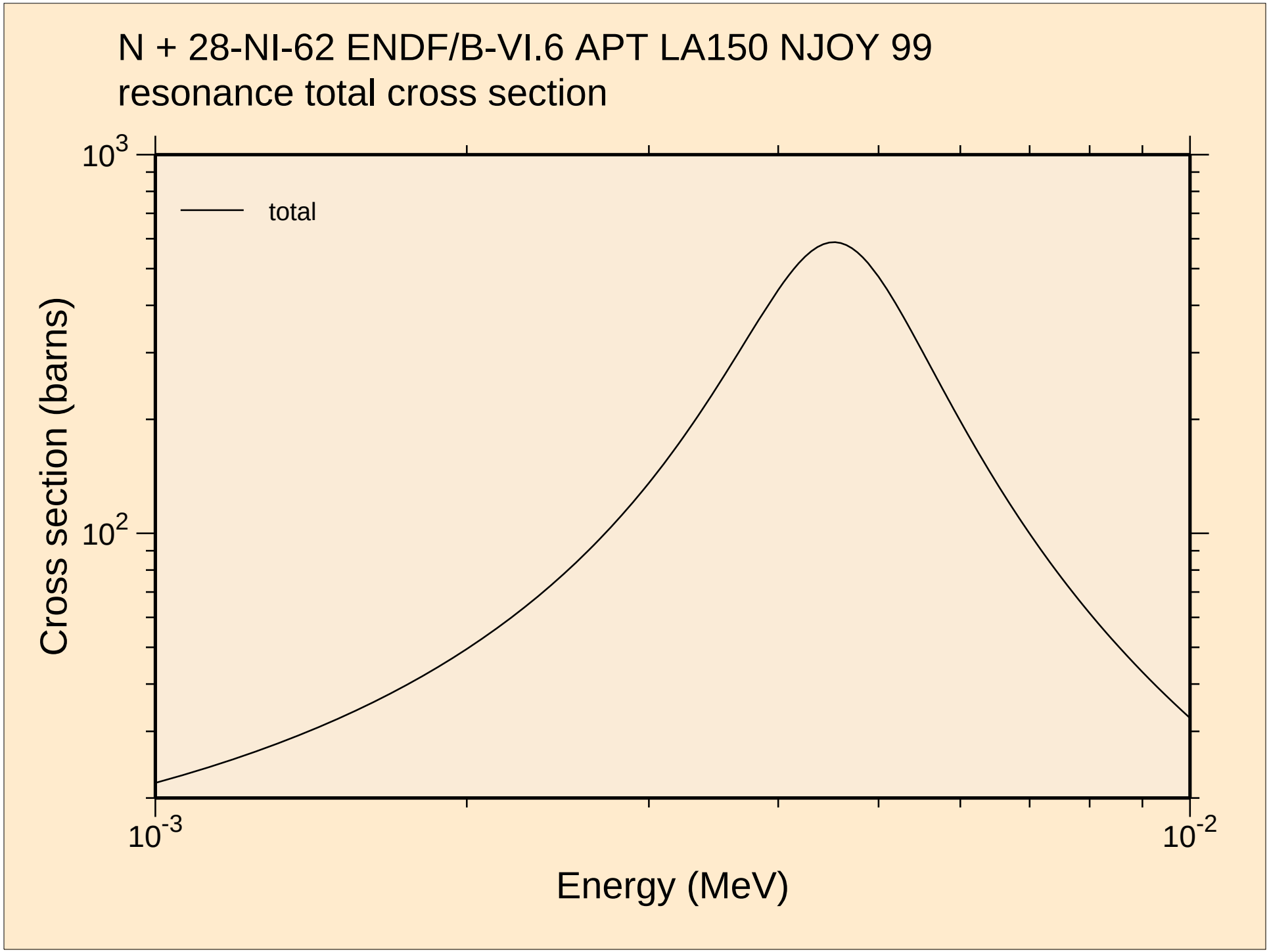
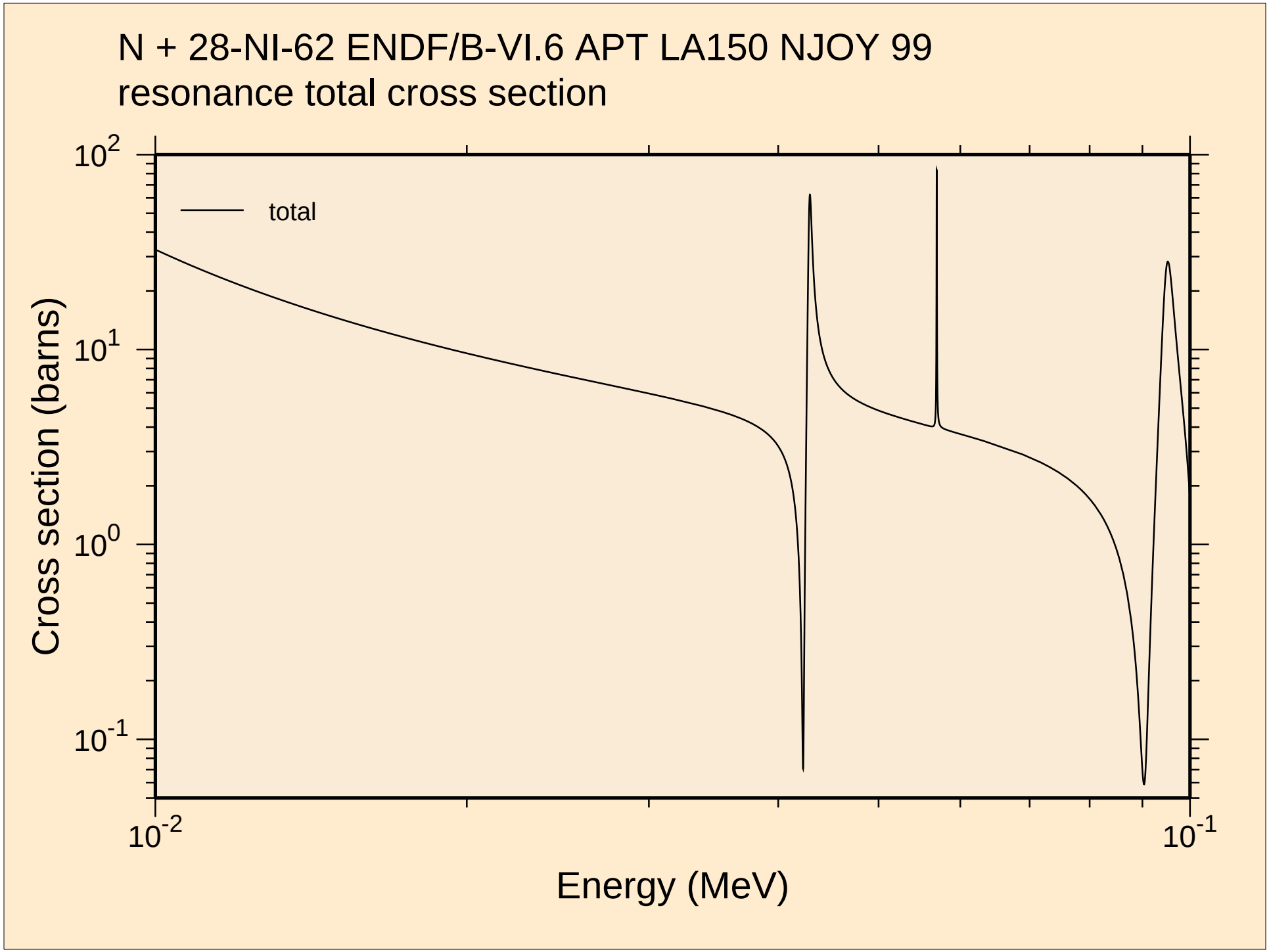
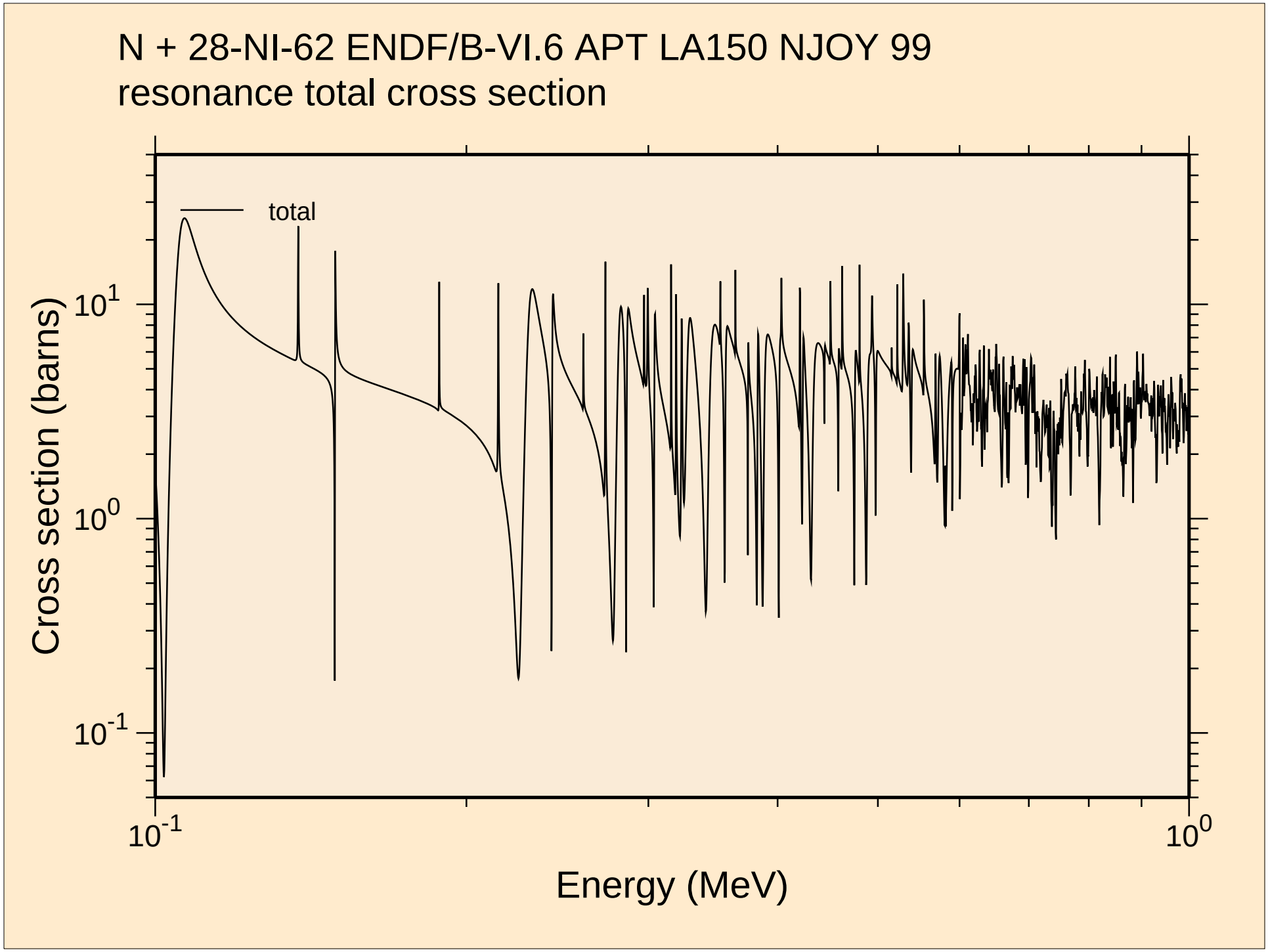
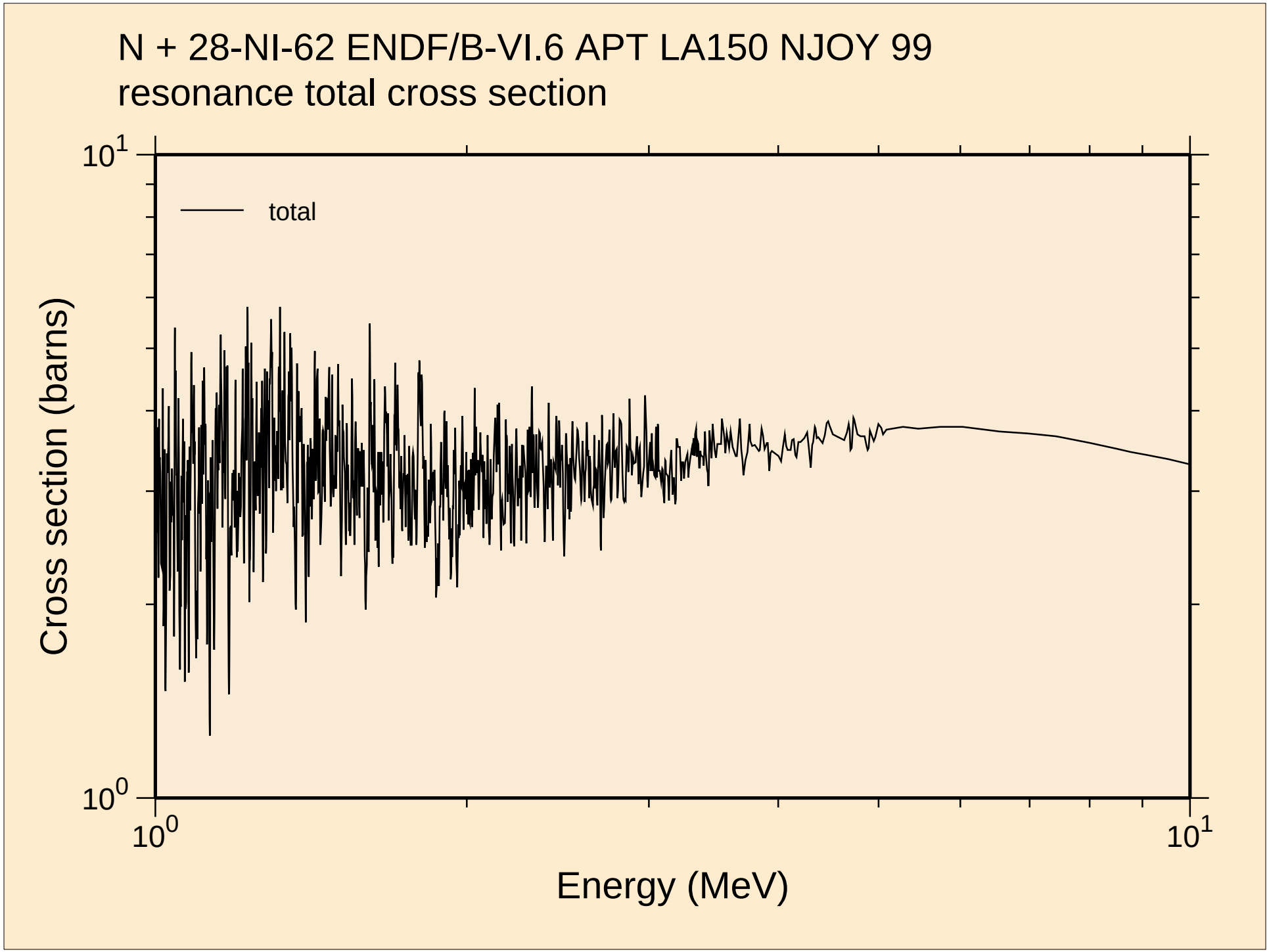
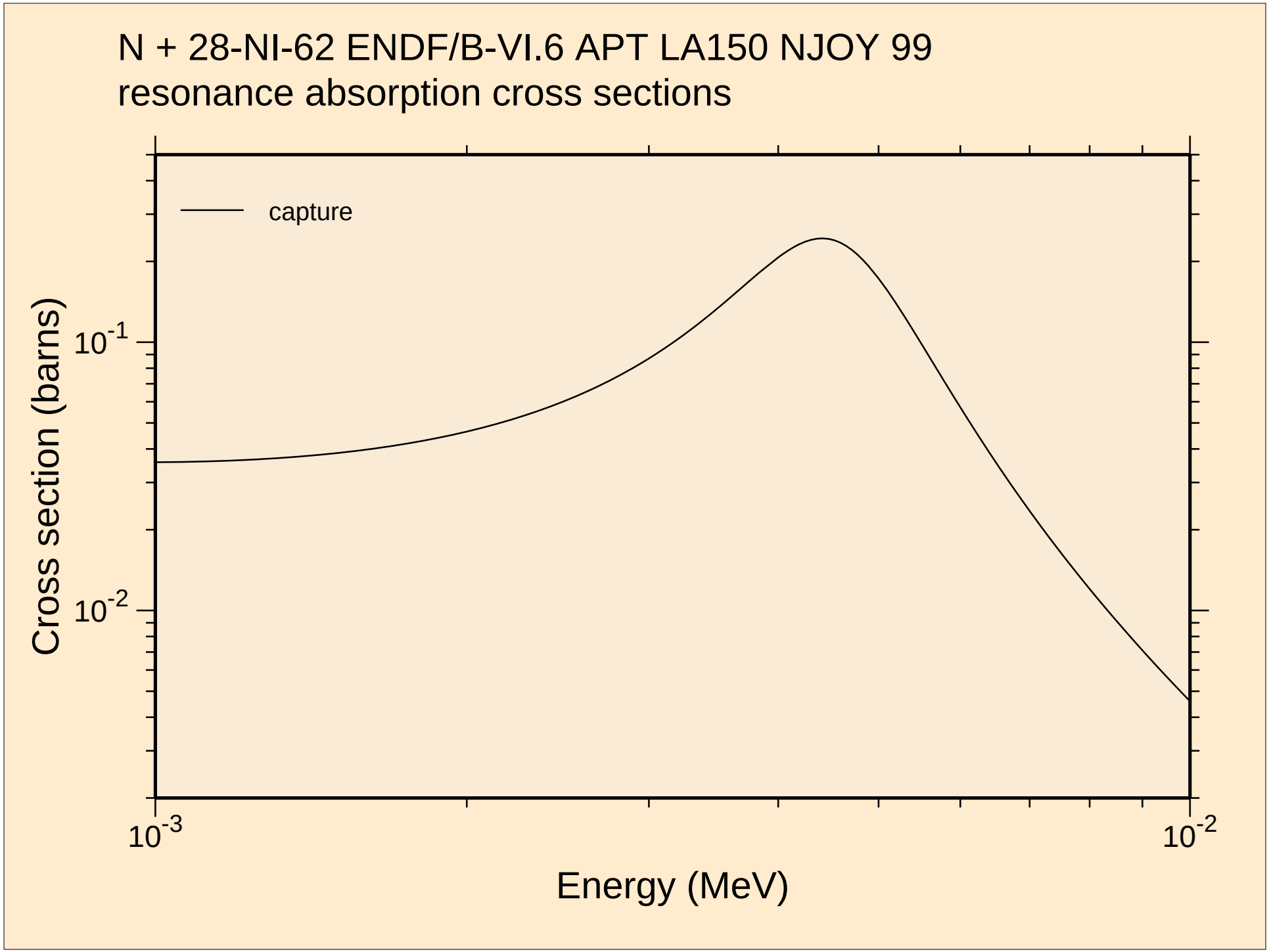

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Principal cross sections
Cross section (barns)
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)
total
absorption
elastic
gamma production

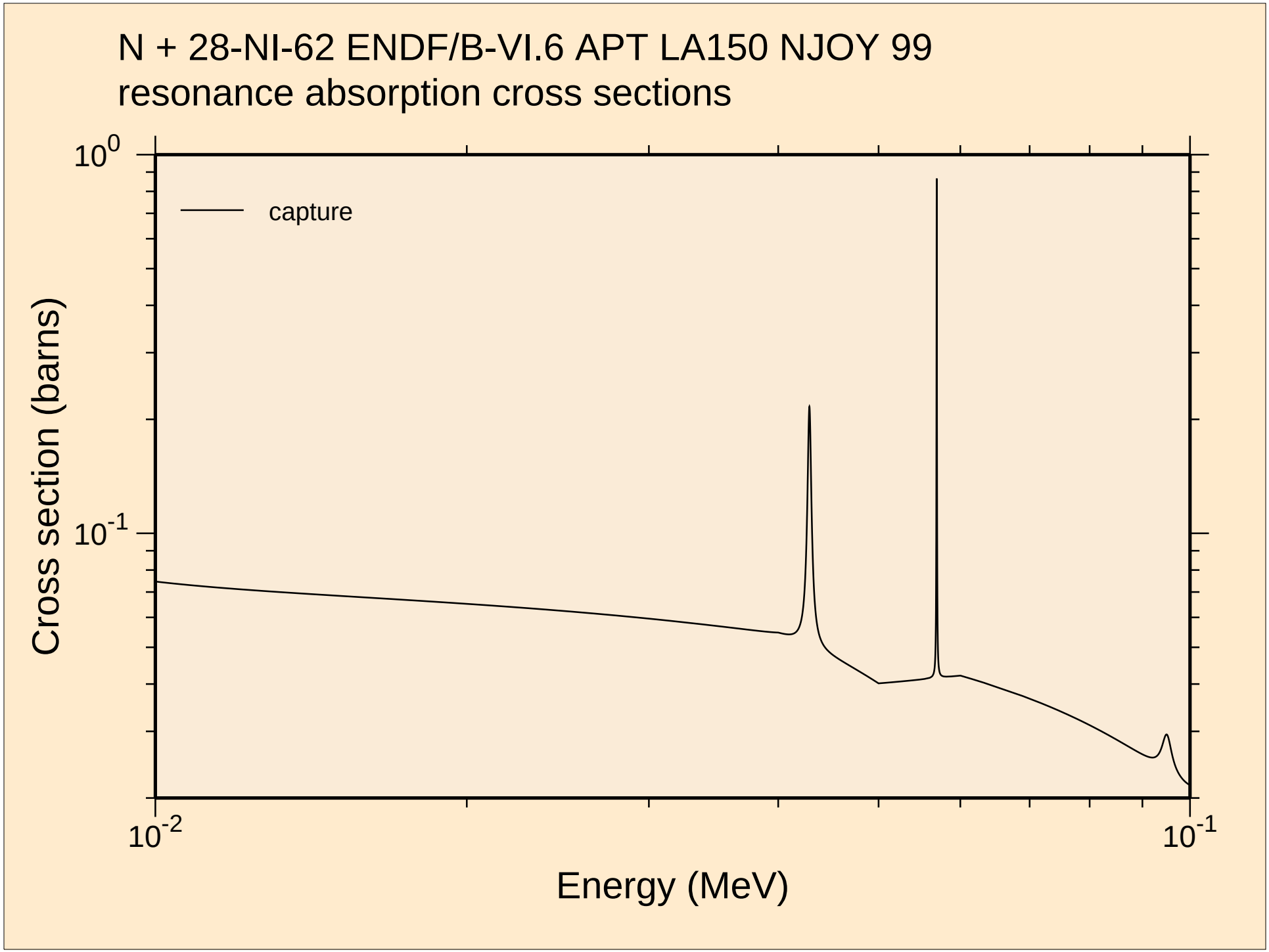

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
resonance total cross section
total
Cross section (barns)
10^3
10^2
10^-3
10^-2
Energy (MeV)


N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
resonance total cross section
total
Cross section (barns)
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-1}
Energy (MeV)

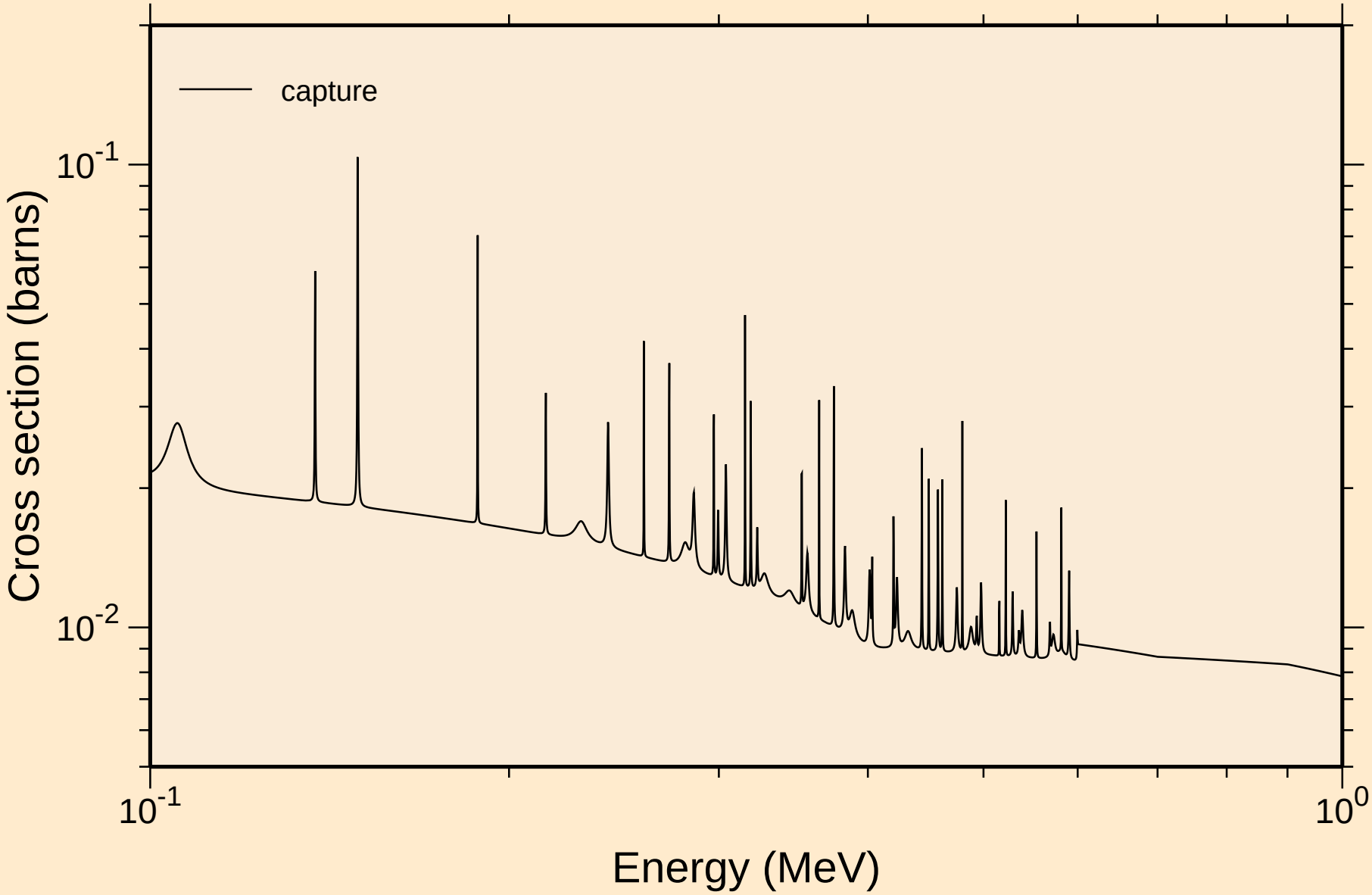

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
resonance total cross section
total
Cross section (barns)
10^1
10^0
10^-1
10^-1
10^0
Energy (MeV)

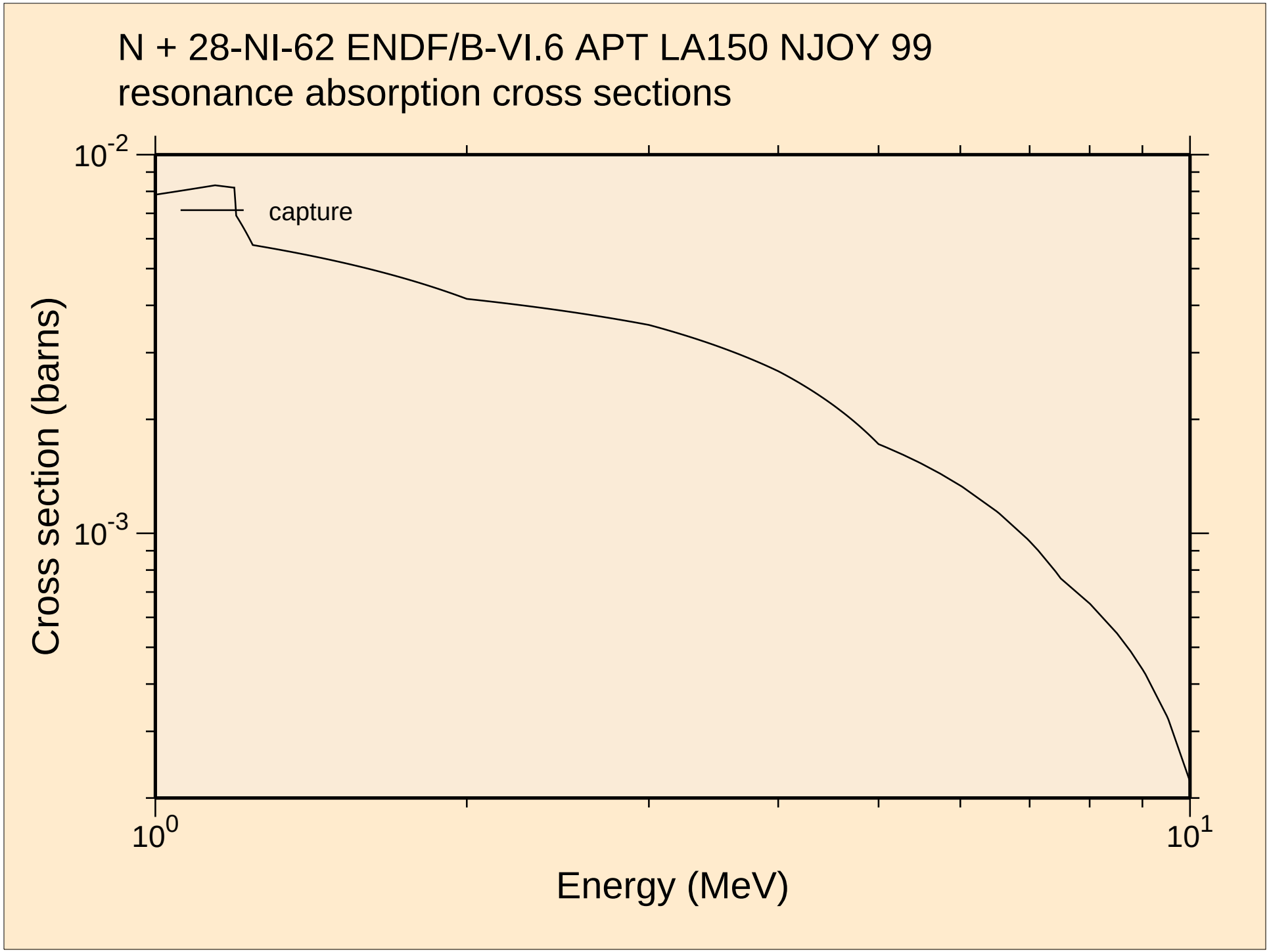

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
resonance total cross section
total
Cross section (barns)
Energy (MeV)
10^1
10^0
10^0
10^1

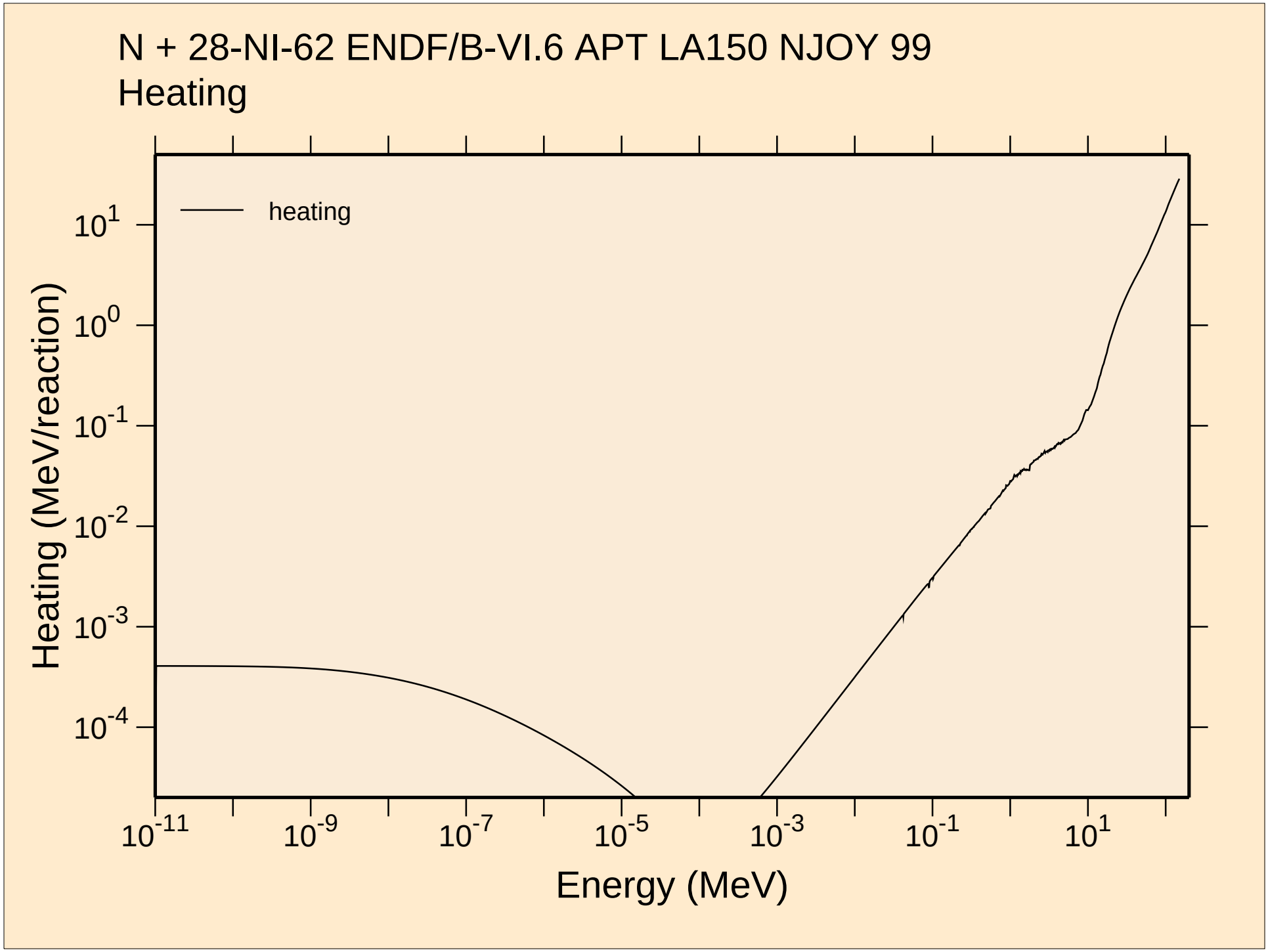

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
resonance absorption cross sections
capture
Cross section (barns)
10-1
10-2
10-3
10-2
Energy (MeV)

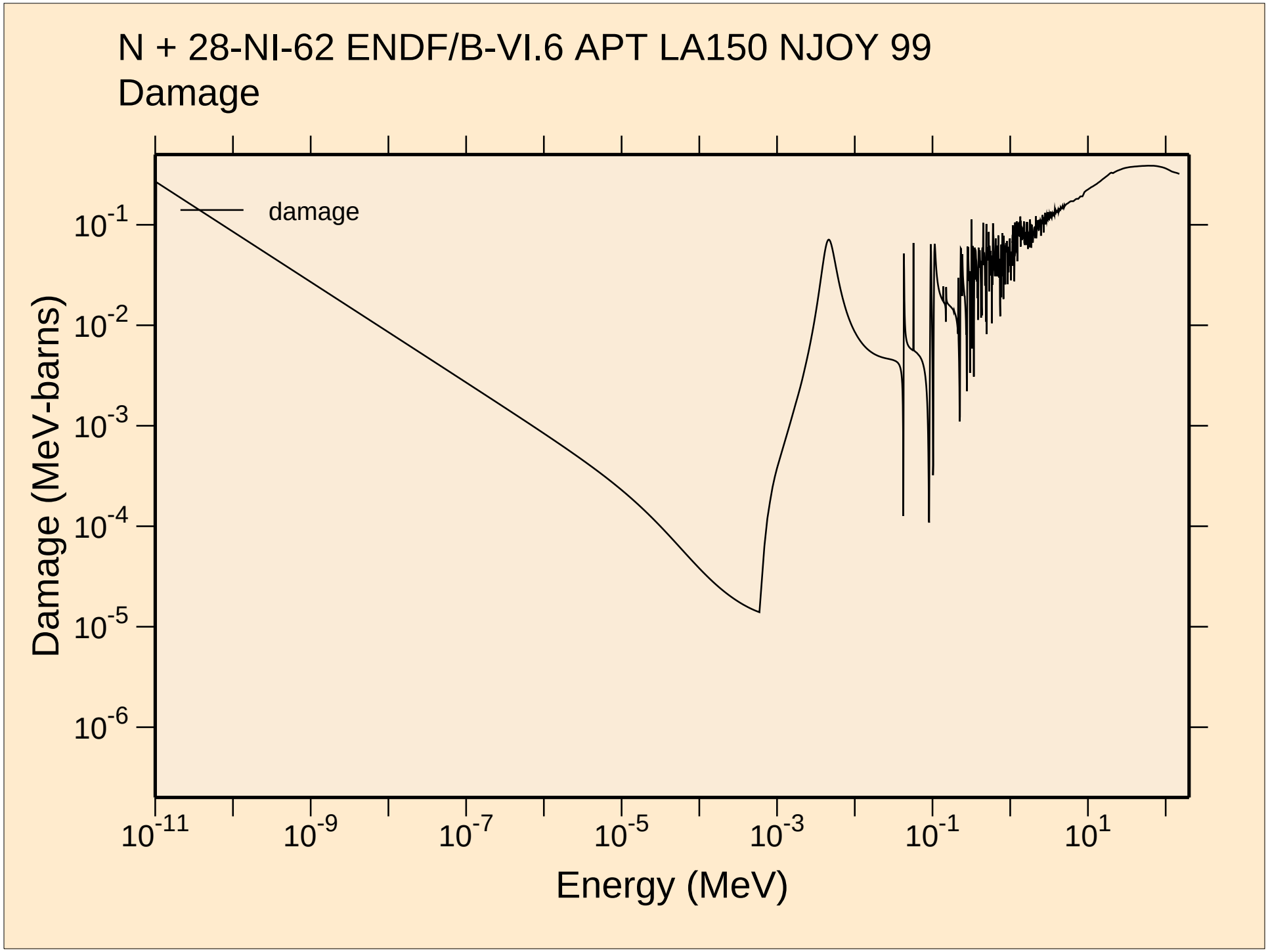

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
resonance absorption cross sections
capture
Cross section (barns)
10^0
10^-1
10^-2
10^-1
Energy (MeV)

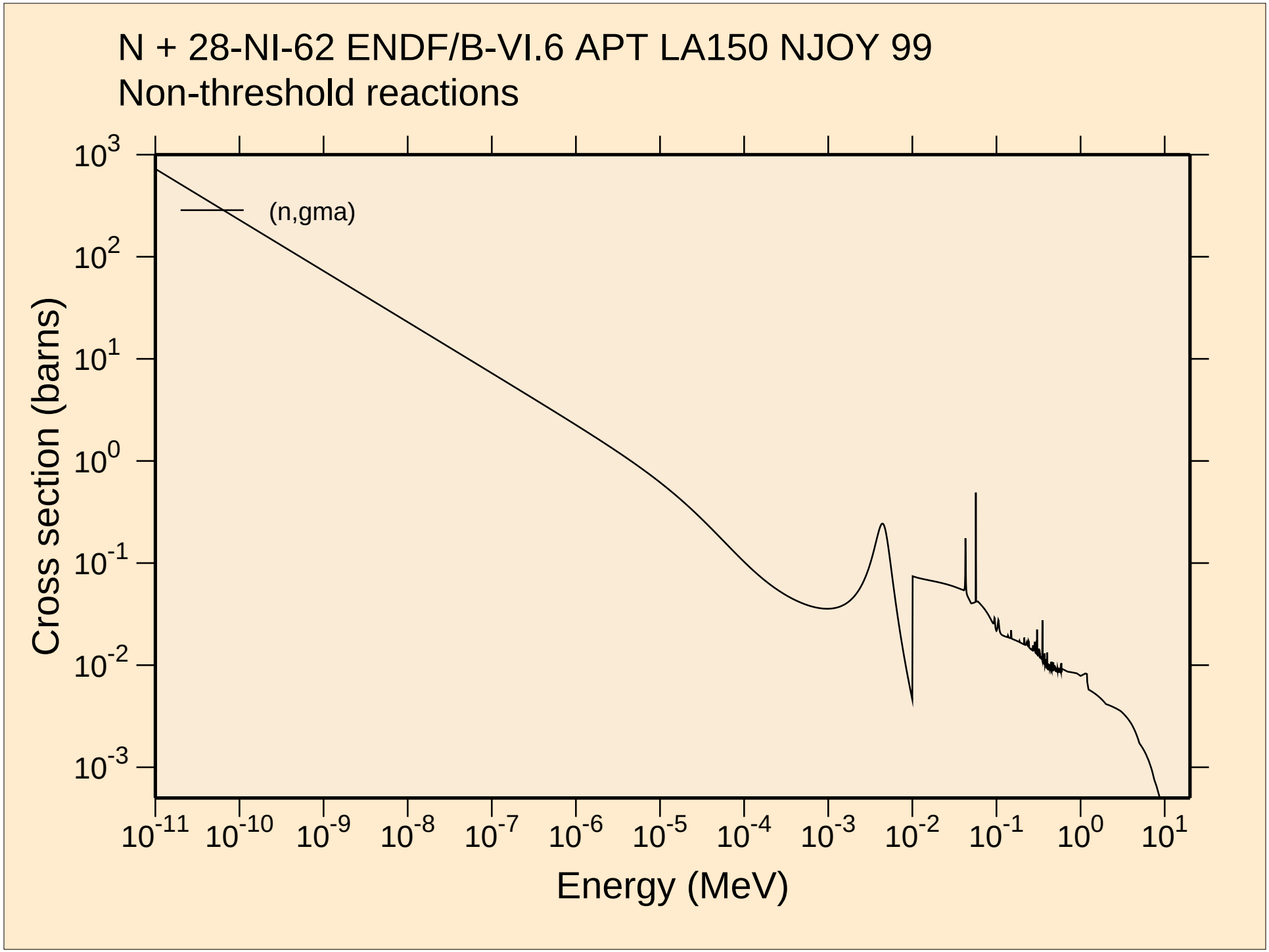
N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
resonance absorption cross sections

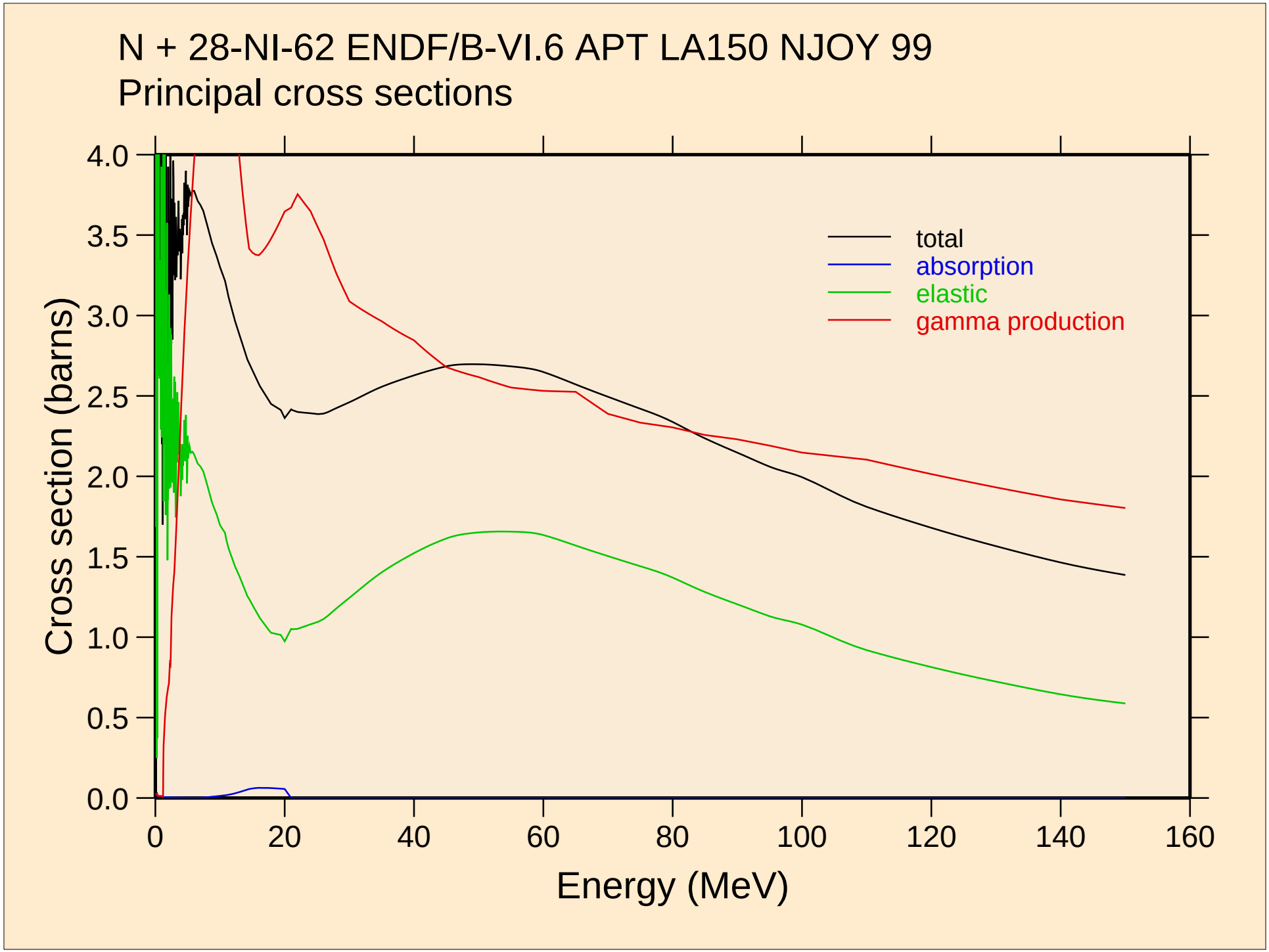


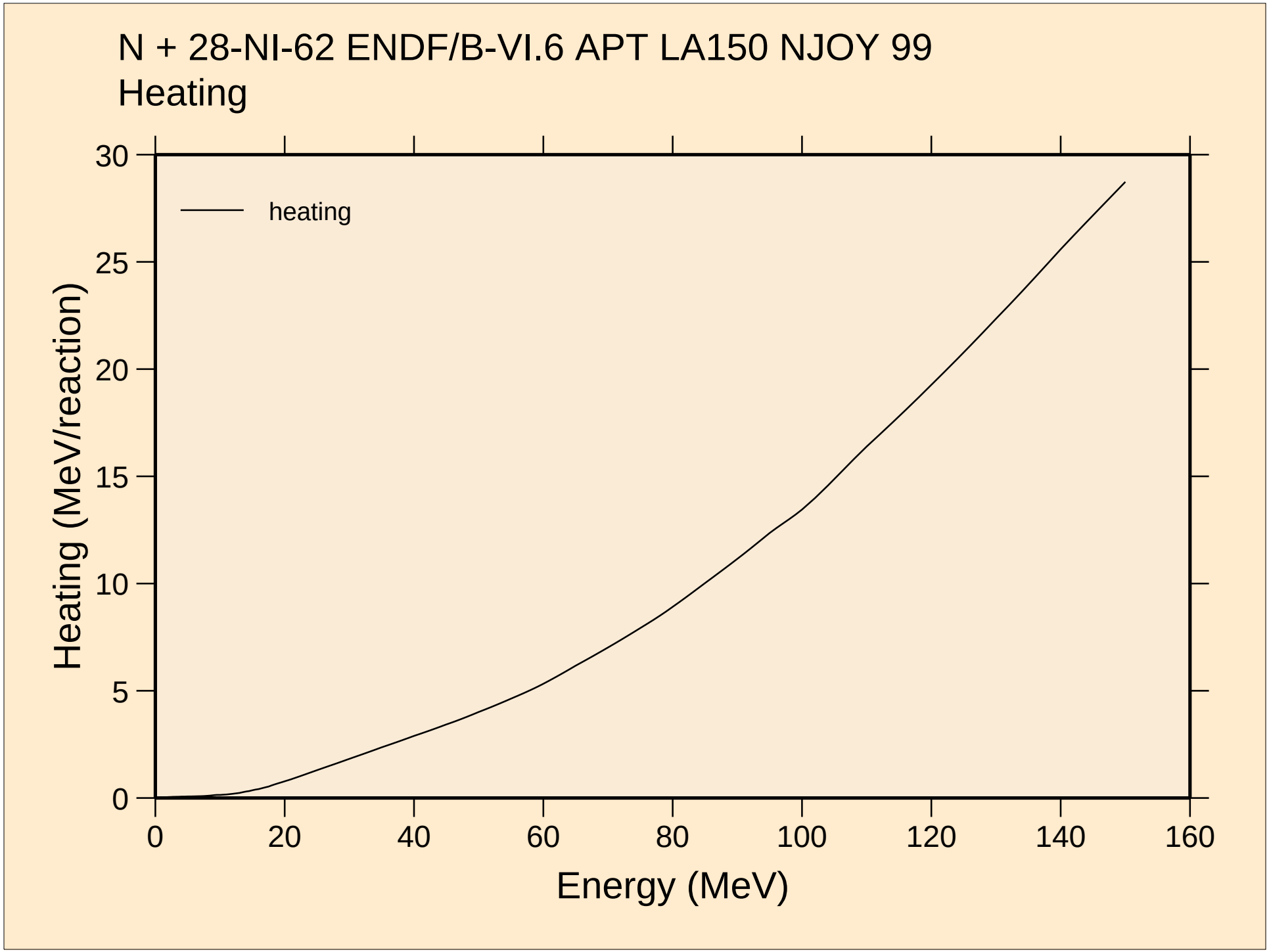

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
resonance absorption cross sections
10-2
10-3
capture
Cross section (barns)
100
101
Energy (MeV)

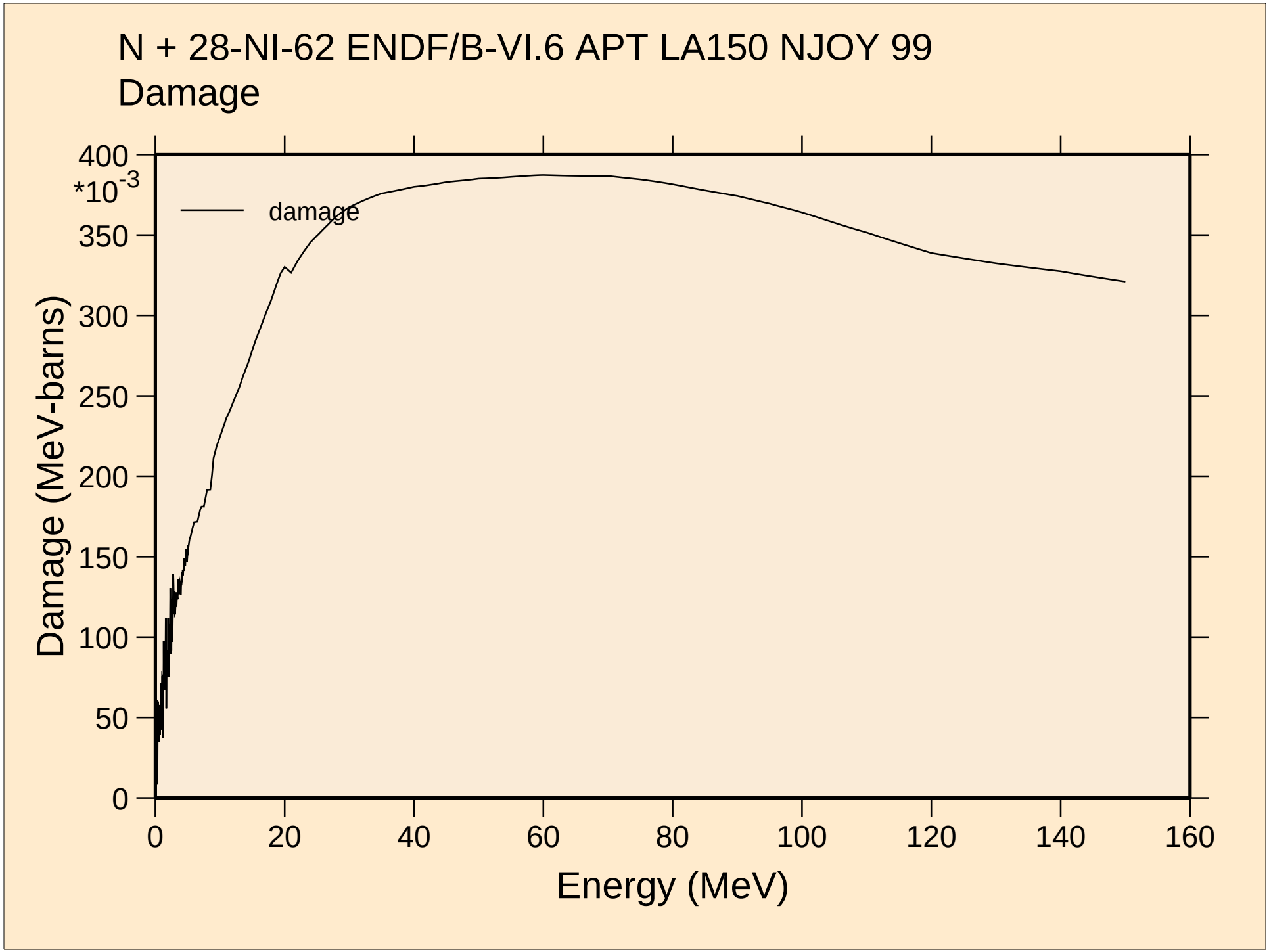

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Heating
heating
Heating (MeV/reaction)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

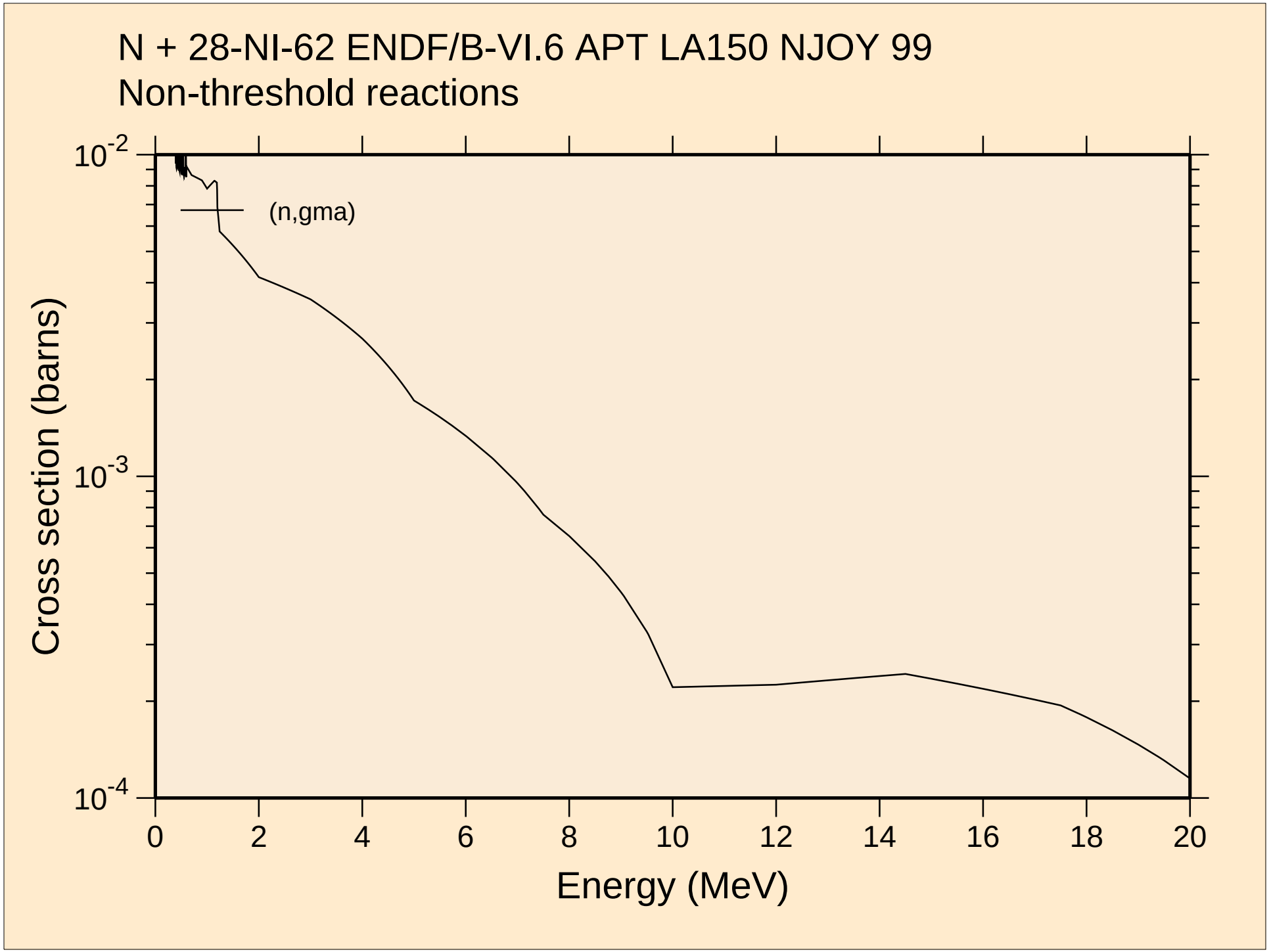

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Damage
damage
Damage (MeV-barns)
10-1
10-2
10-3
10-4
10-5
10-6
10-11
10-9
10-7
10-5
10-3
10-1
101
Energy (MeV)

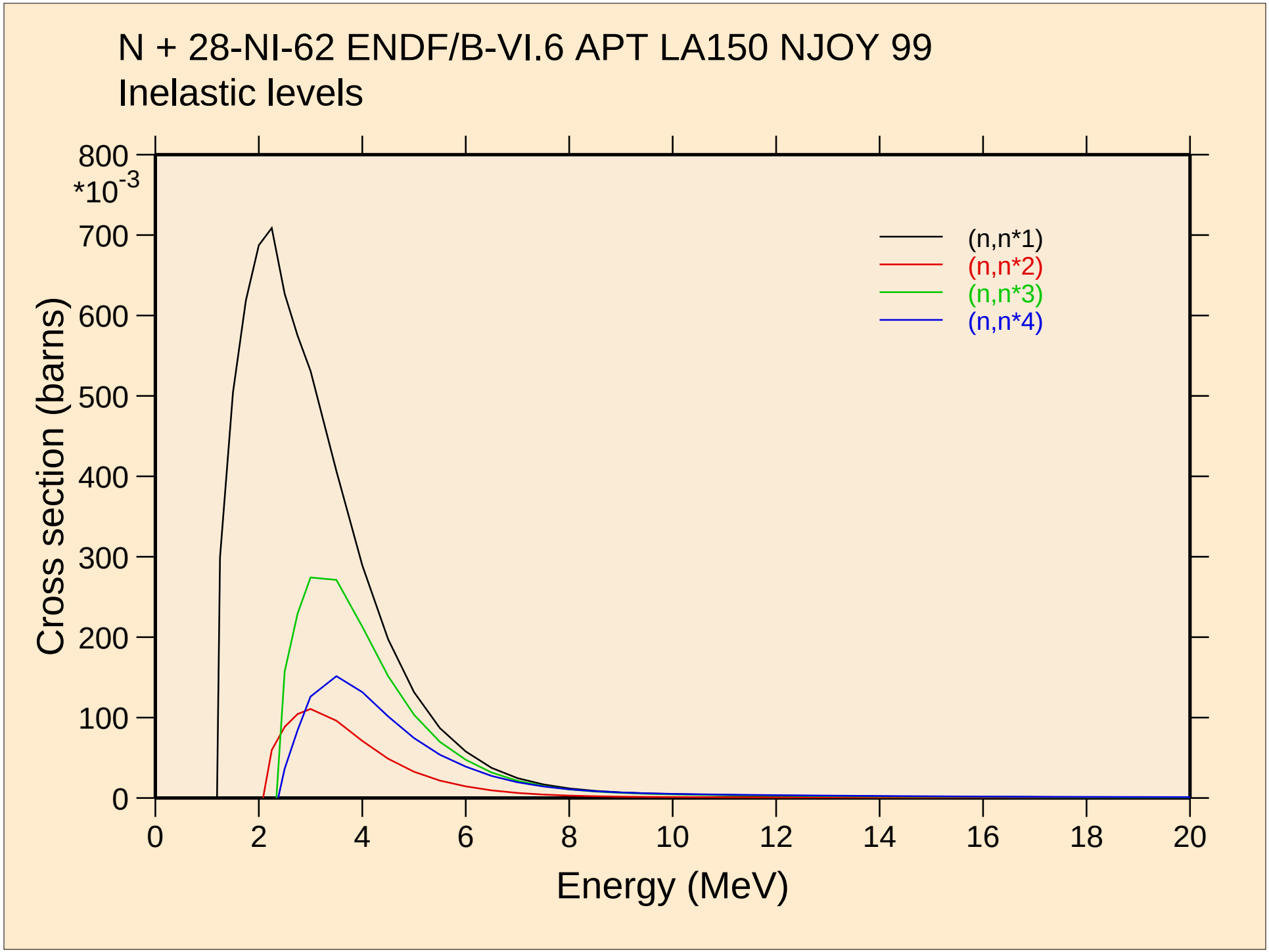

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Non-threshold reactions
(n,gma)
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-11 10^-10 10^-9 10^-8 10^-7 10^-6 10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1
Energy (MeV)

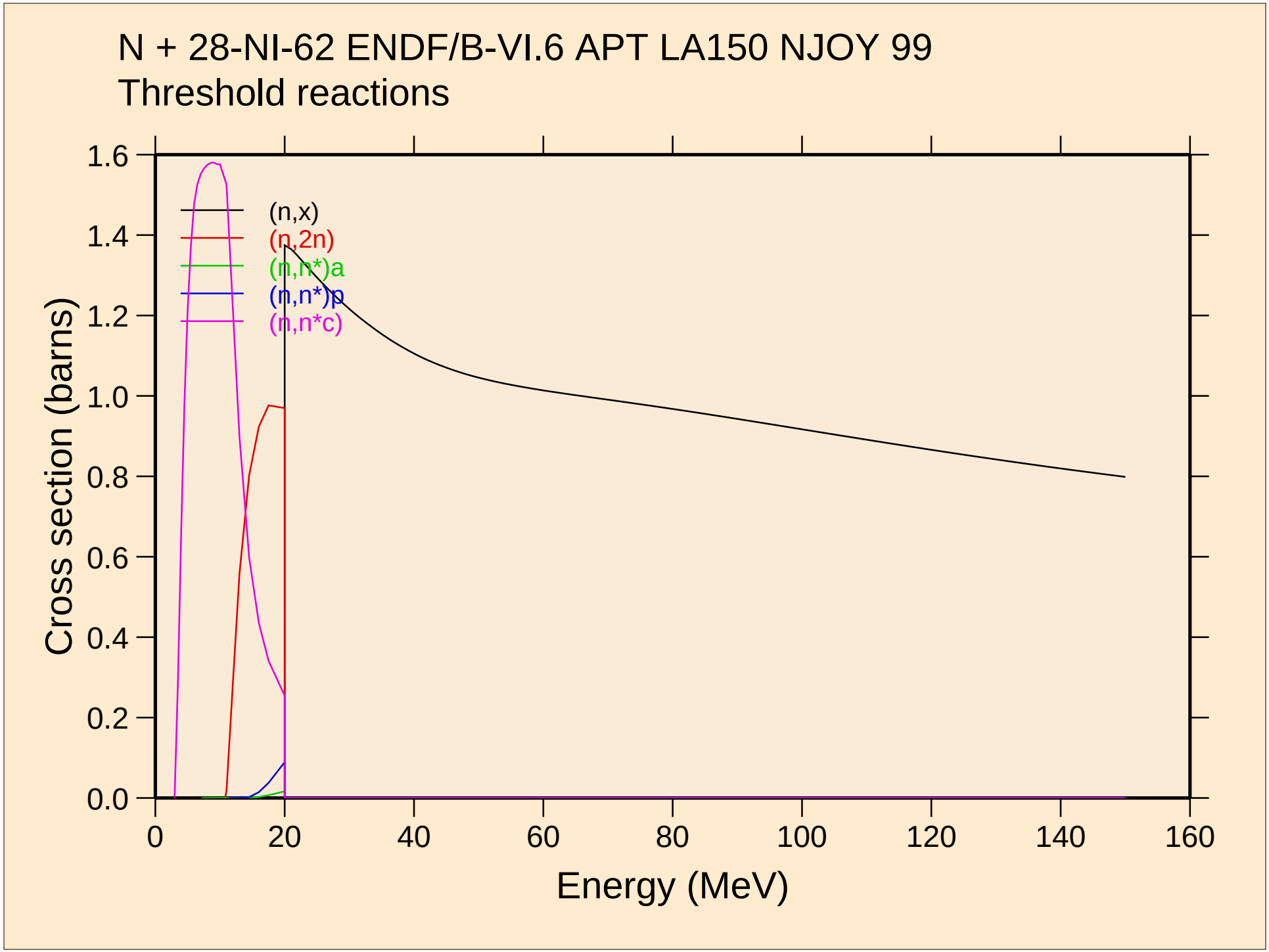

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Principal cross sections
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
0
20
40
60
80
100
120
140
160
total
absorption
elastic
gamma production

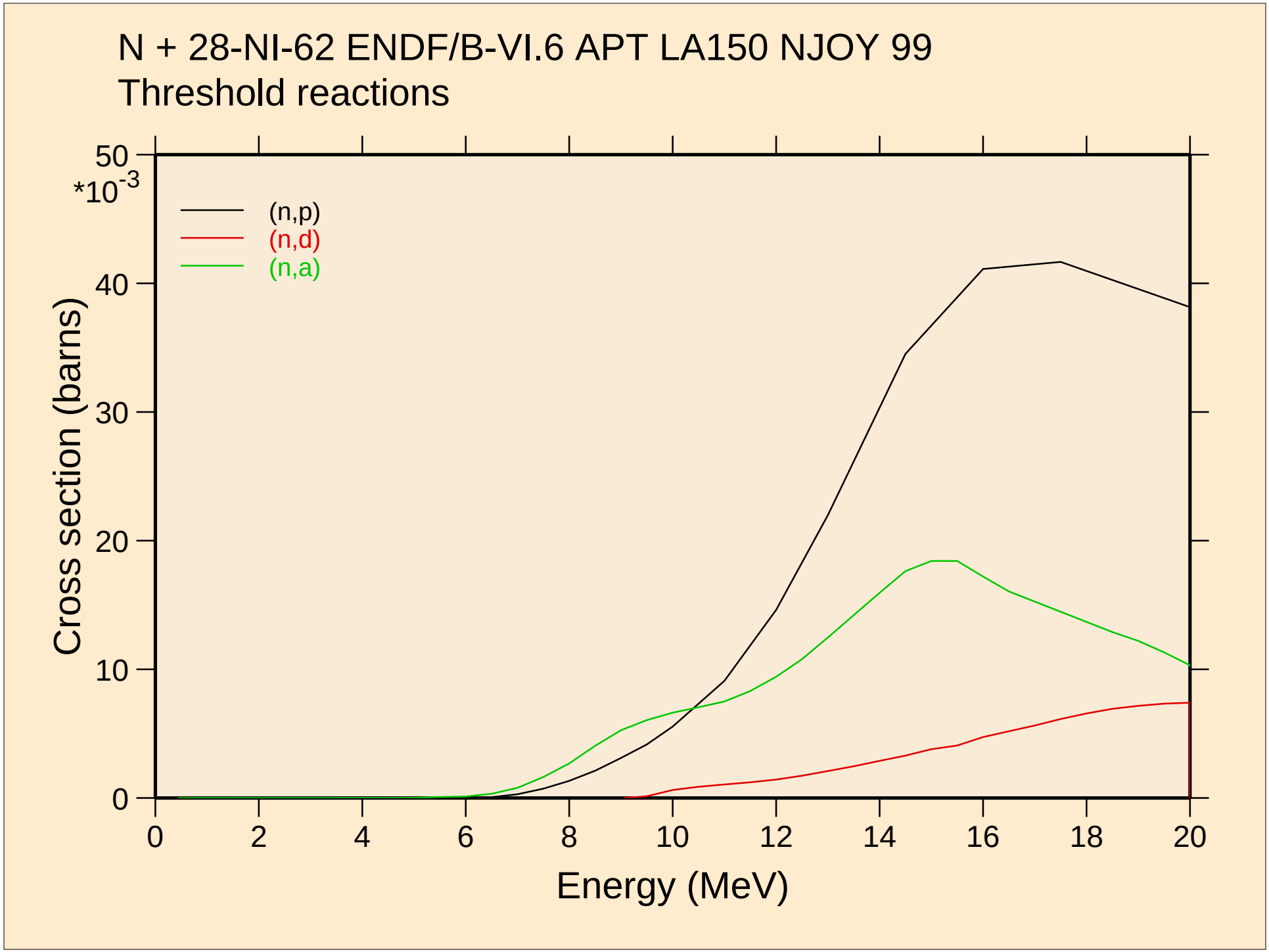

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
5
10
15
20
25
30
0
20
40
60
80
100
120
140
160

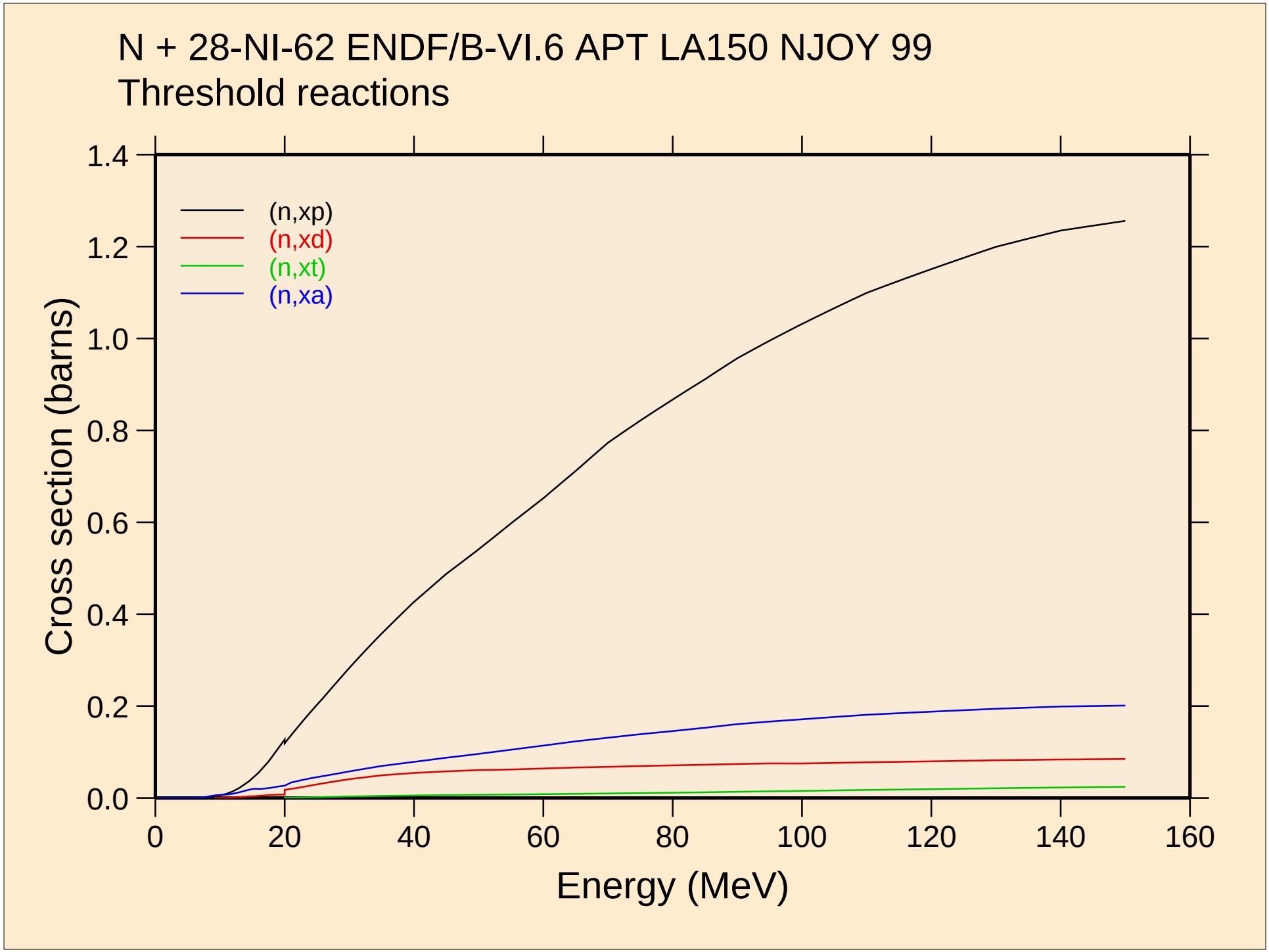

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Damage
400
*10-3
350
300
250
200
150
100
50
0
damage
Damage (MeV-barns)
0
20
40
60
80
100
120
140
160
Energy (MeV)

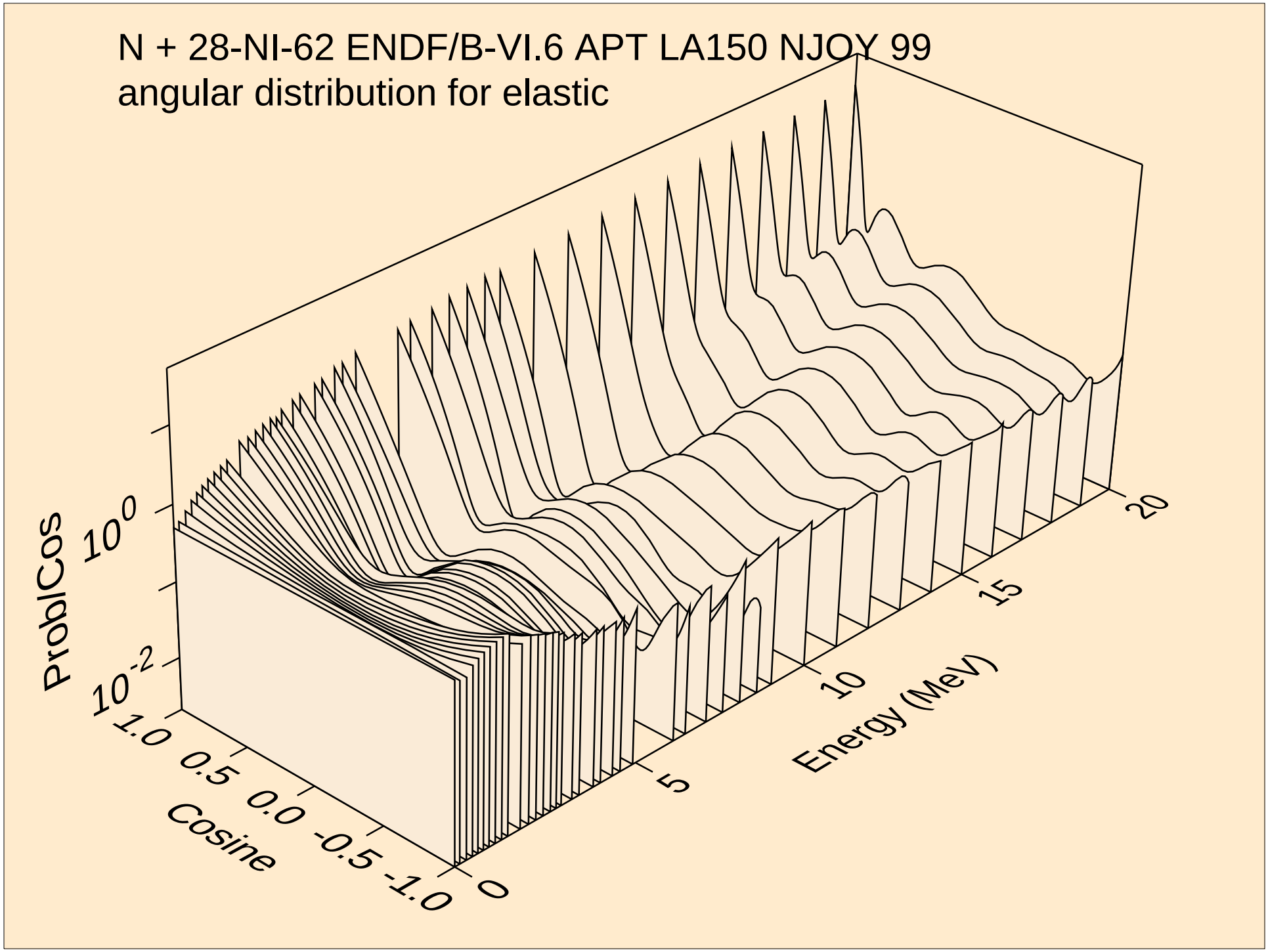

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Non-threshold reactions
(n,gma)
Cross section (barns)
10-2
10-3
10-4
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

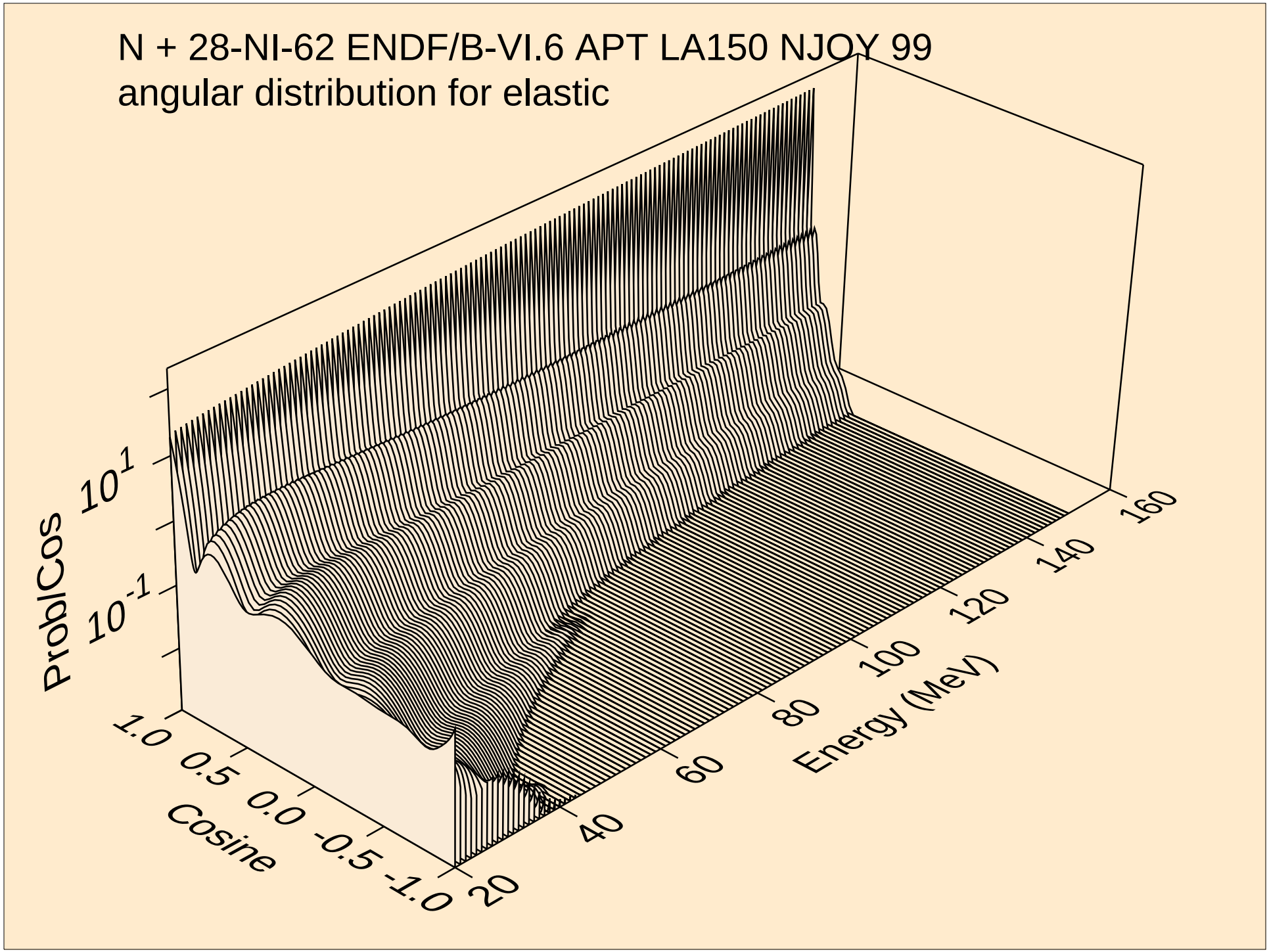

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Inelastic levels
Cross section (barns)
*10-3
800
700
600
500
400
300
200
100
0
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)

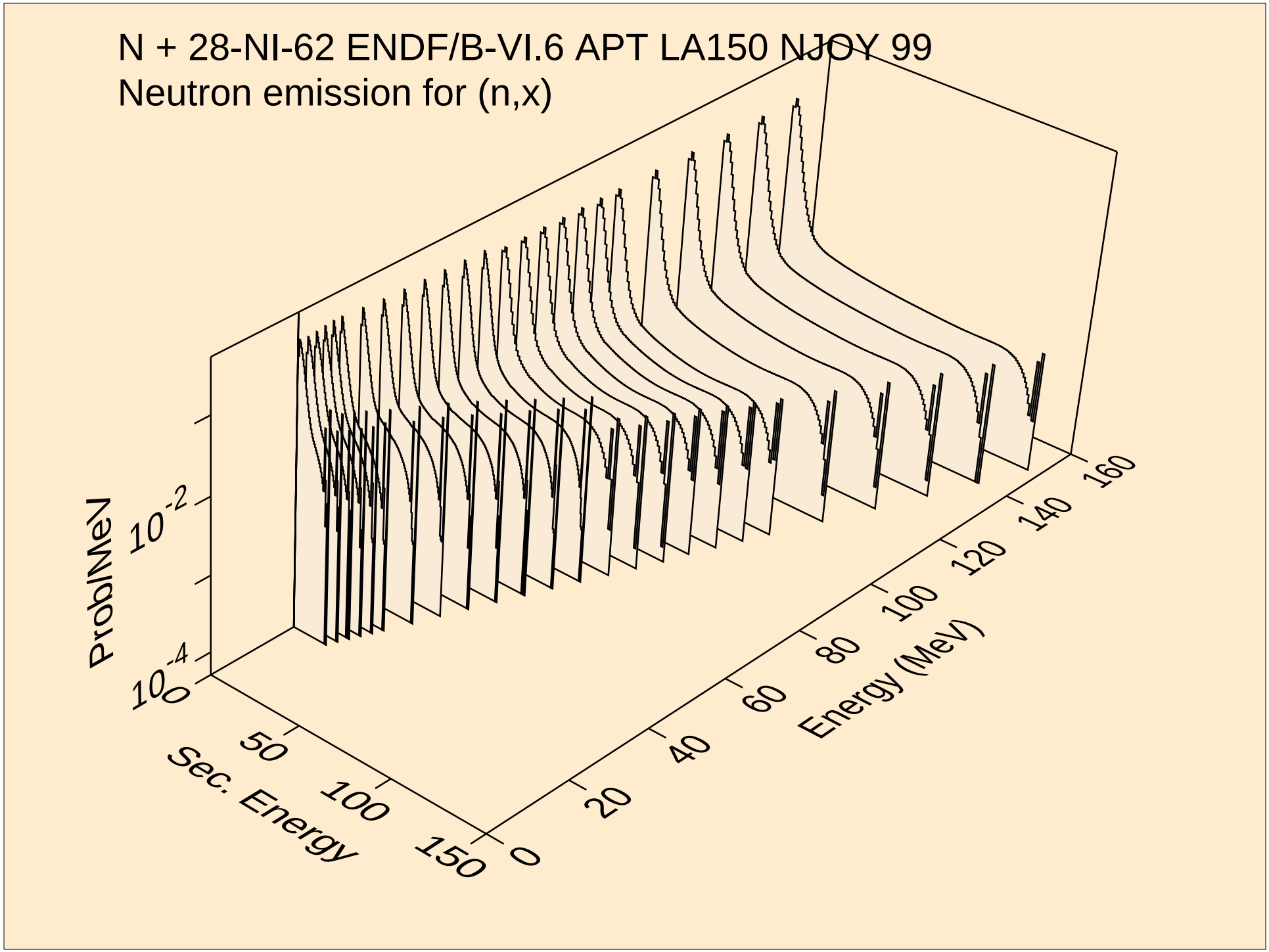

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Threshold reactions
Cross section (barns)
Energy (MeV)
(n,x)
(n,2n)
(n,n*)a
(n,n*)p
(n,n*c)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
20
40
60
80
100
120
140
160

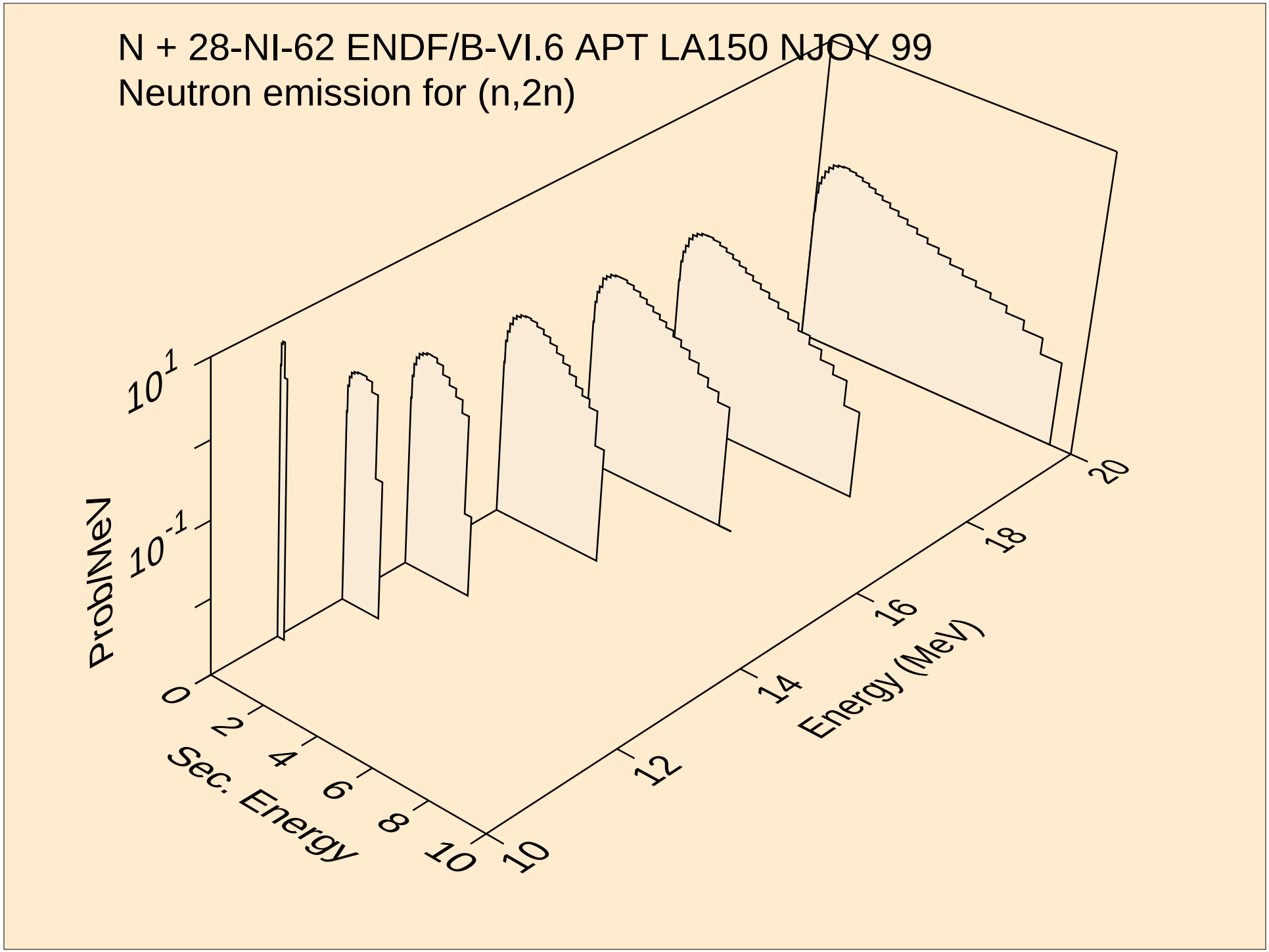

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Threshold reactions
*10-3
(n,p)
(n,d)
(n,a)
Cross section (barns)
Energy (MeV)
0
10
20
30
40
50
0
2
4
6
8
10
12
14
16
18
20

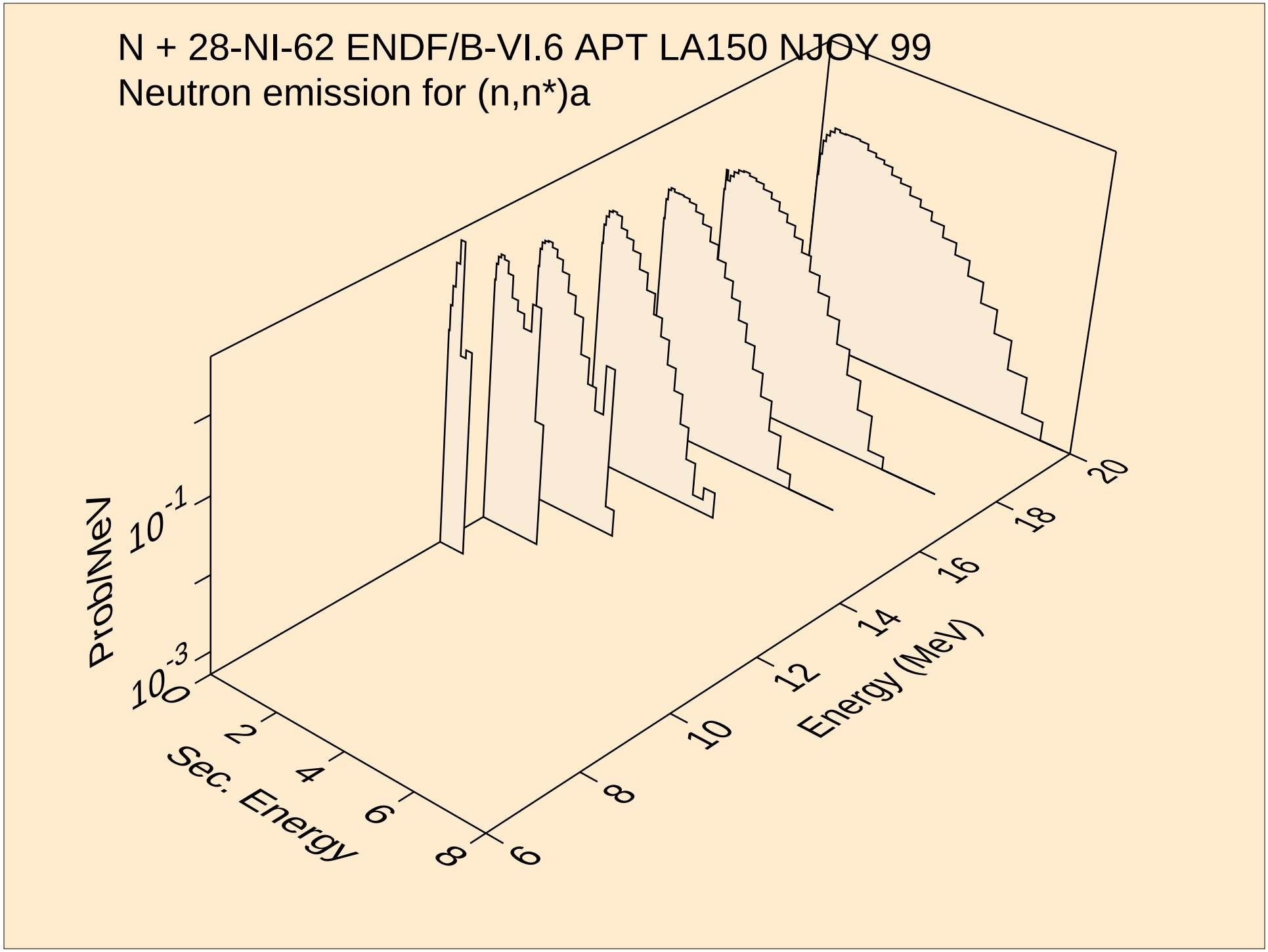

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Threshold reactions
(n,xp)
(n,xd)
(n,xt)
(n,xa)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
20
40
60
80
100
120
140
160

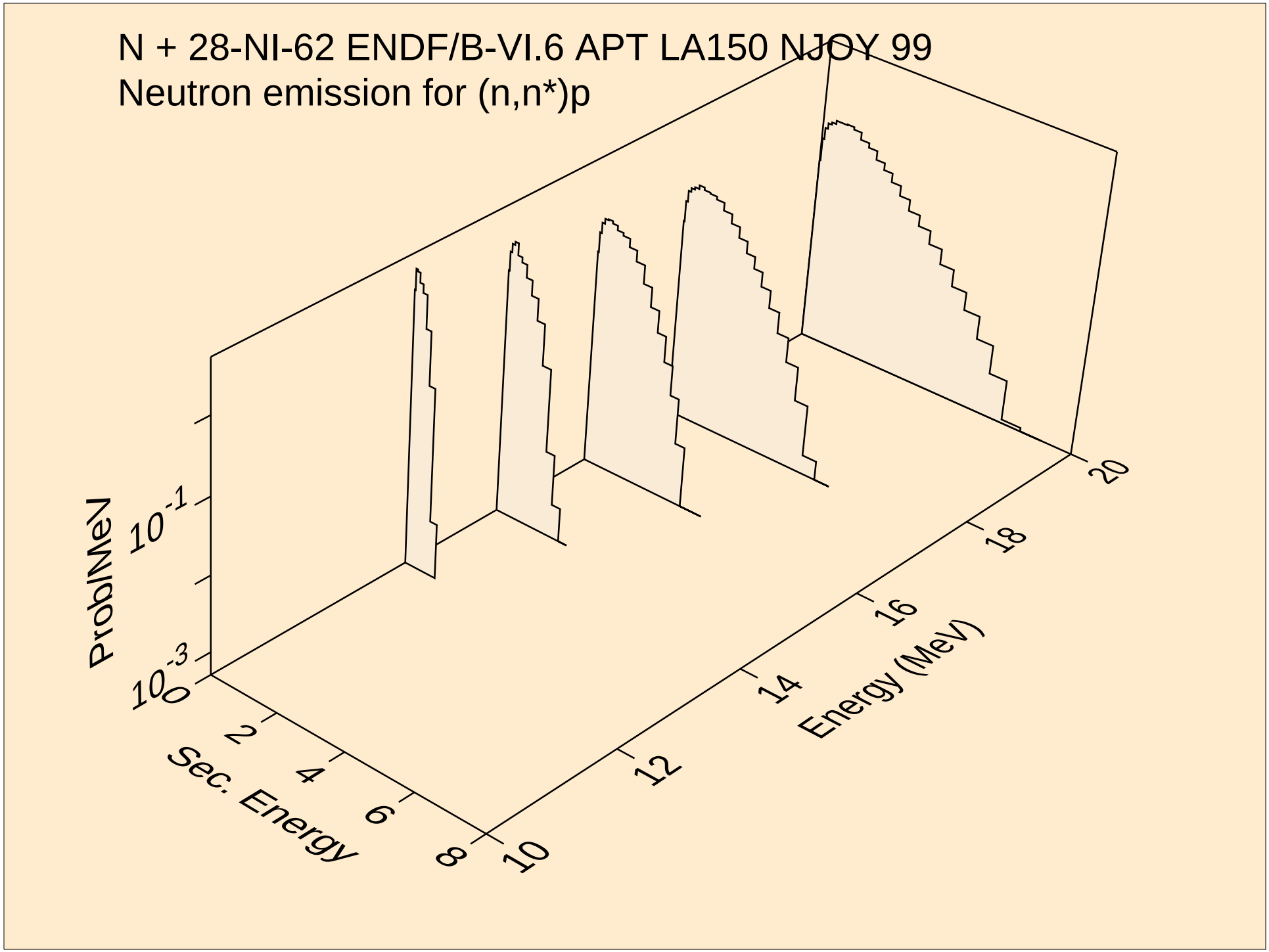

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
angular distribution for elastic
ProbICos
10^0
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

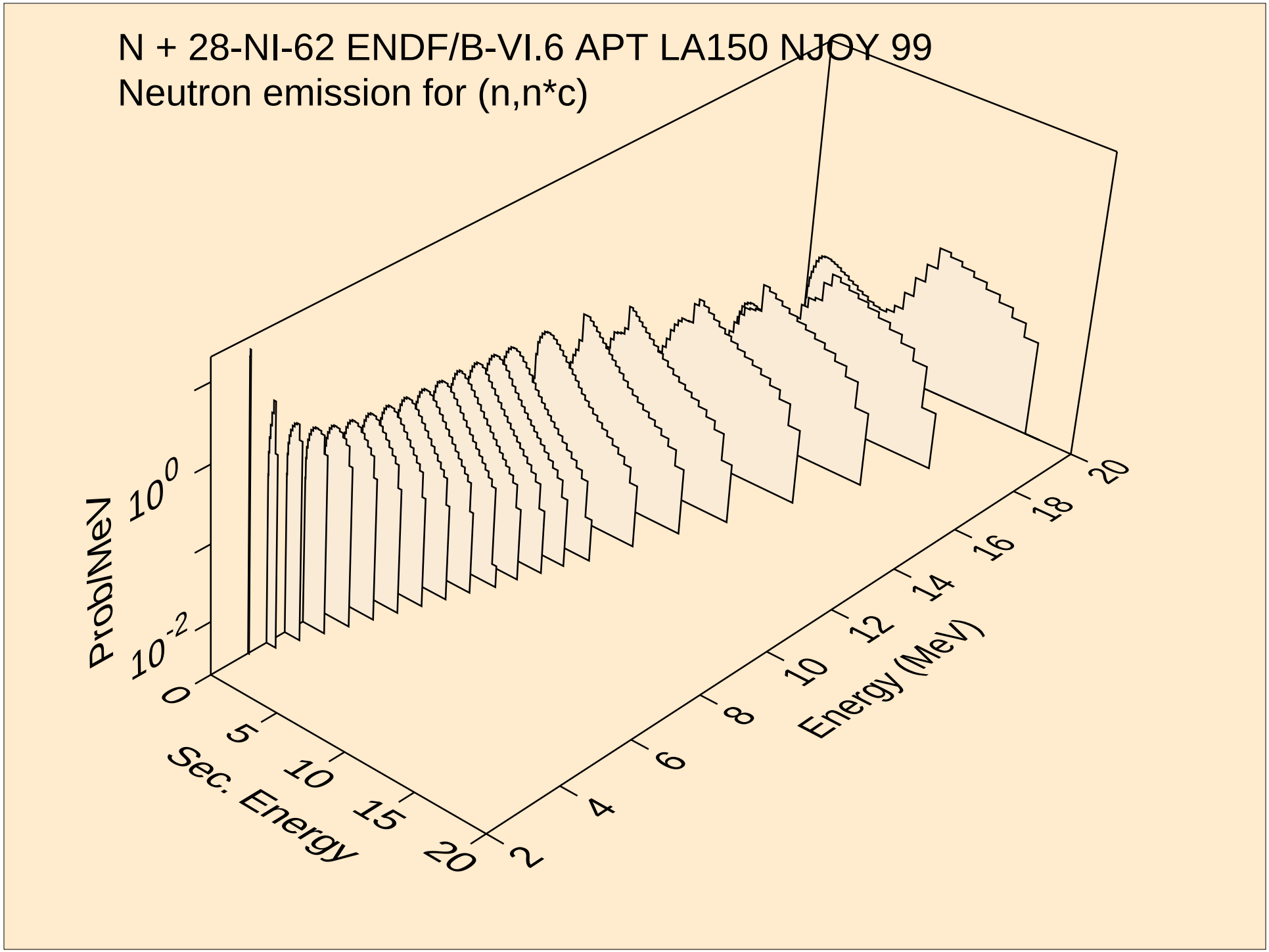

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

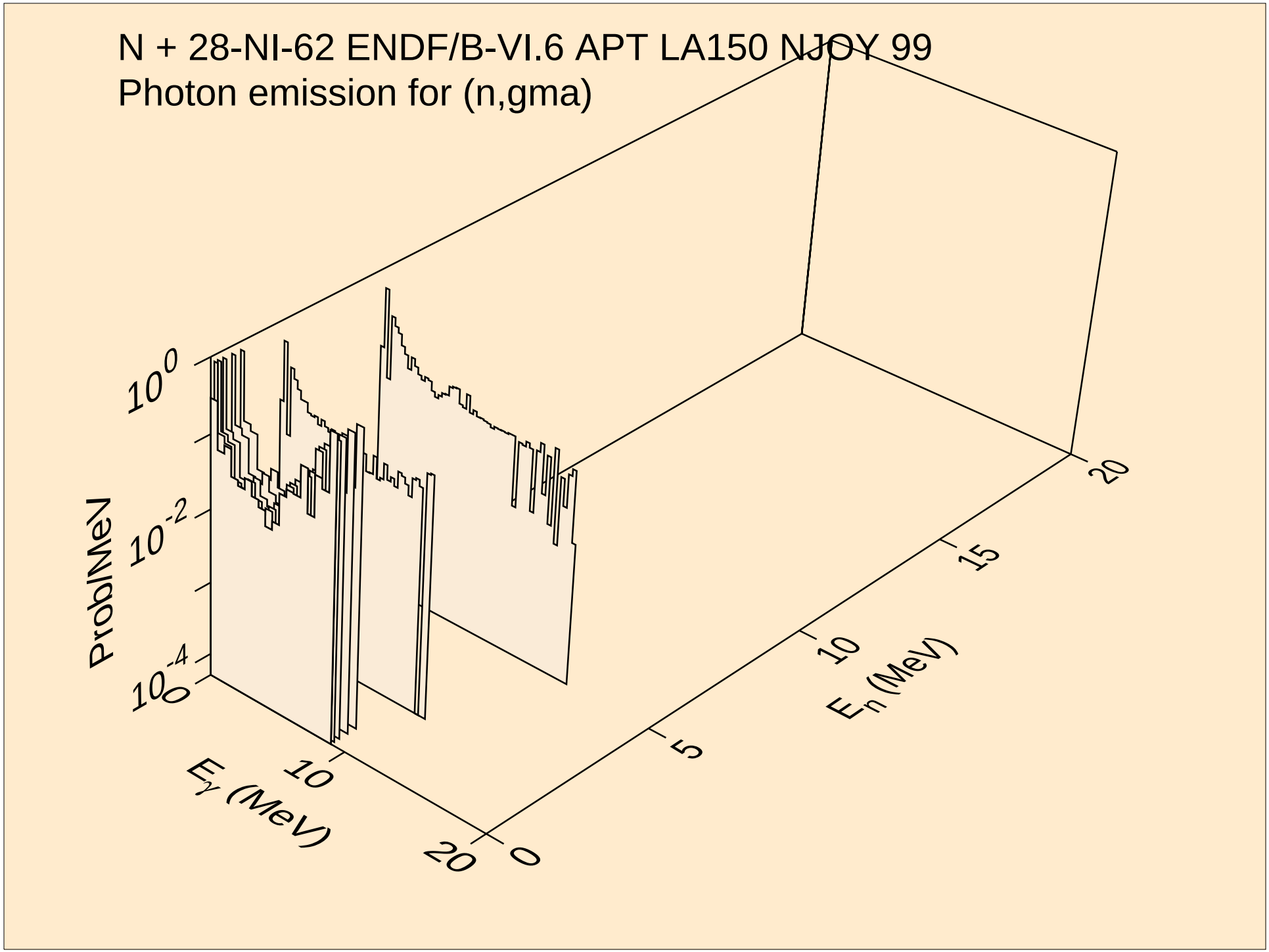

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Neutron emission for (n,x)
Prob/MeV
10-2
10-4
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

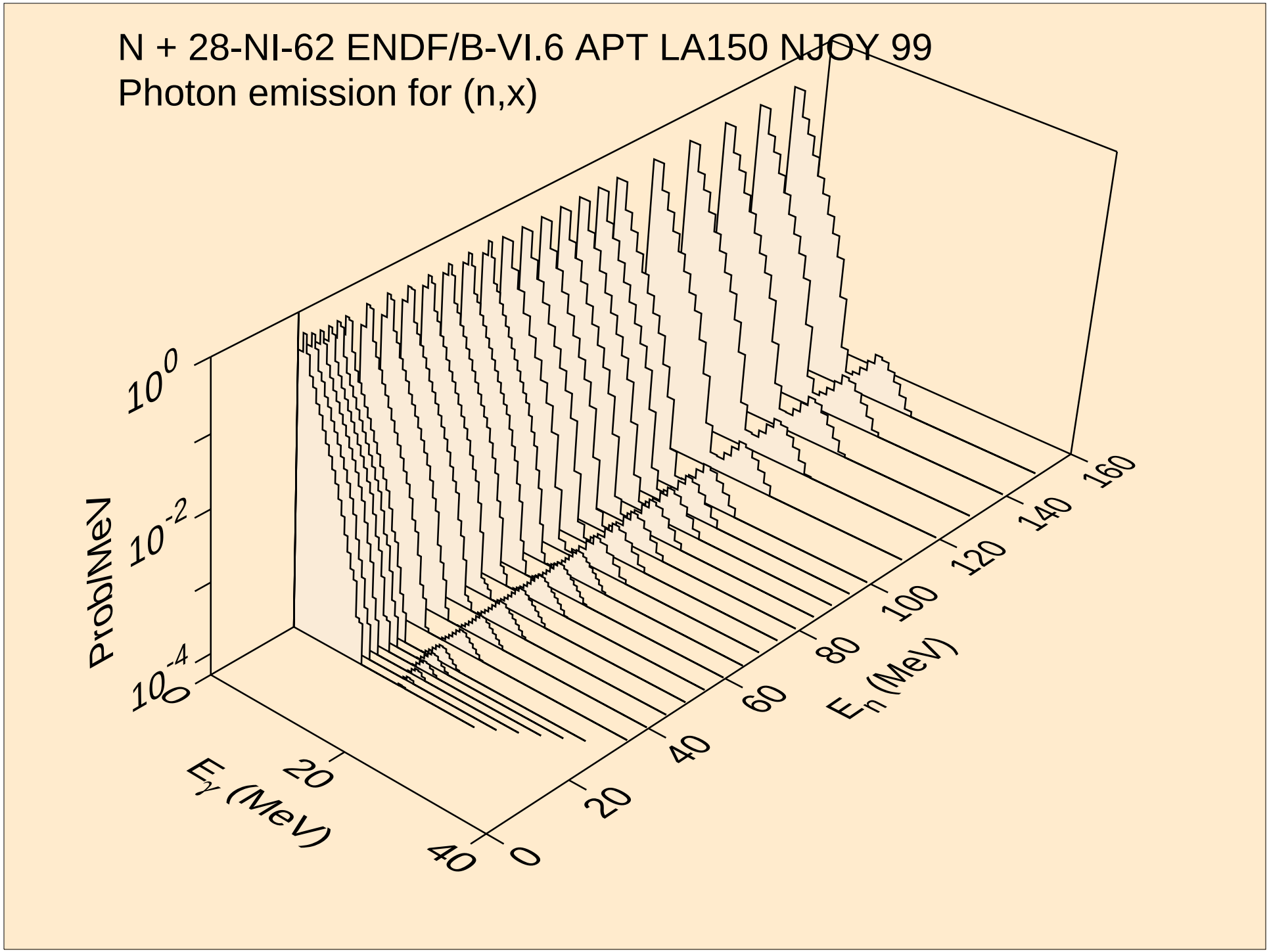

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Neutron emission for (n,2n)
Prob/MeV
10^1
10^-1
0
2
4
6
8
10
Sec. Energy
10
12
14
16
18
20
Energy (MeV)

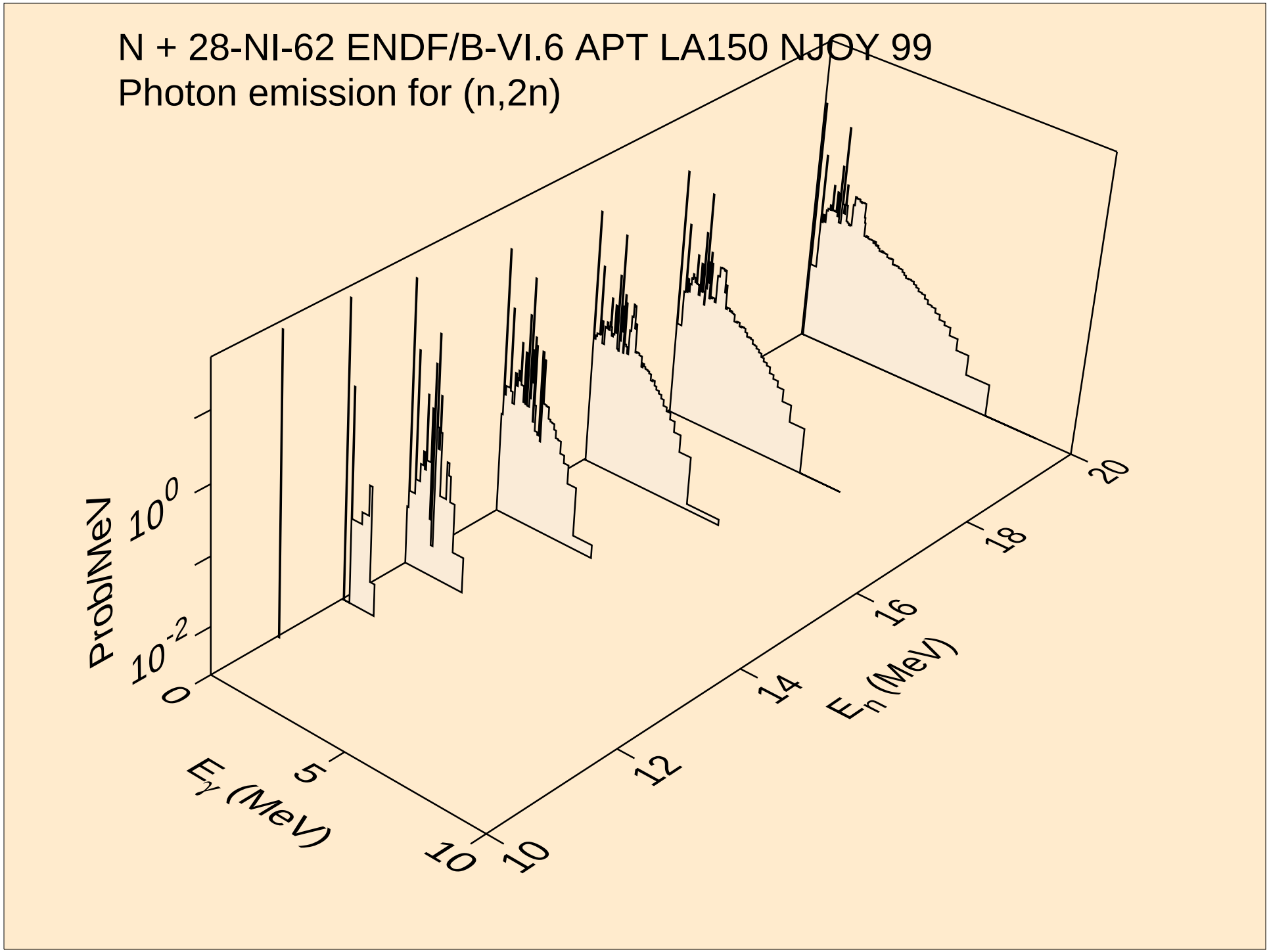

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Neutron emission for (n,n*)a
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
6
8
10
12
14
16
18
20
Energy (MeV)

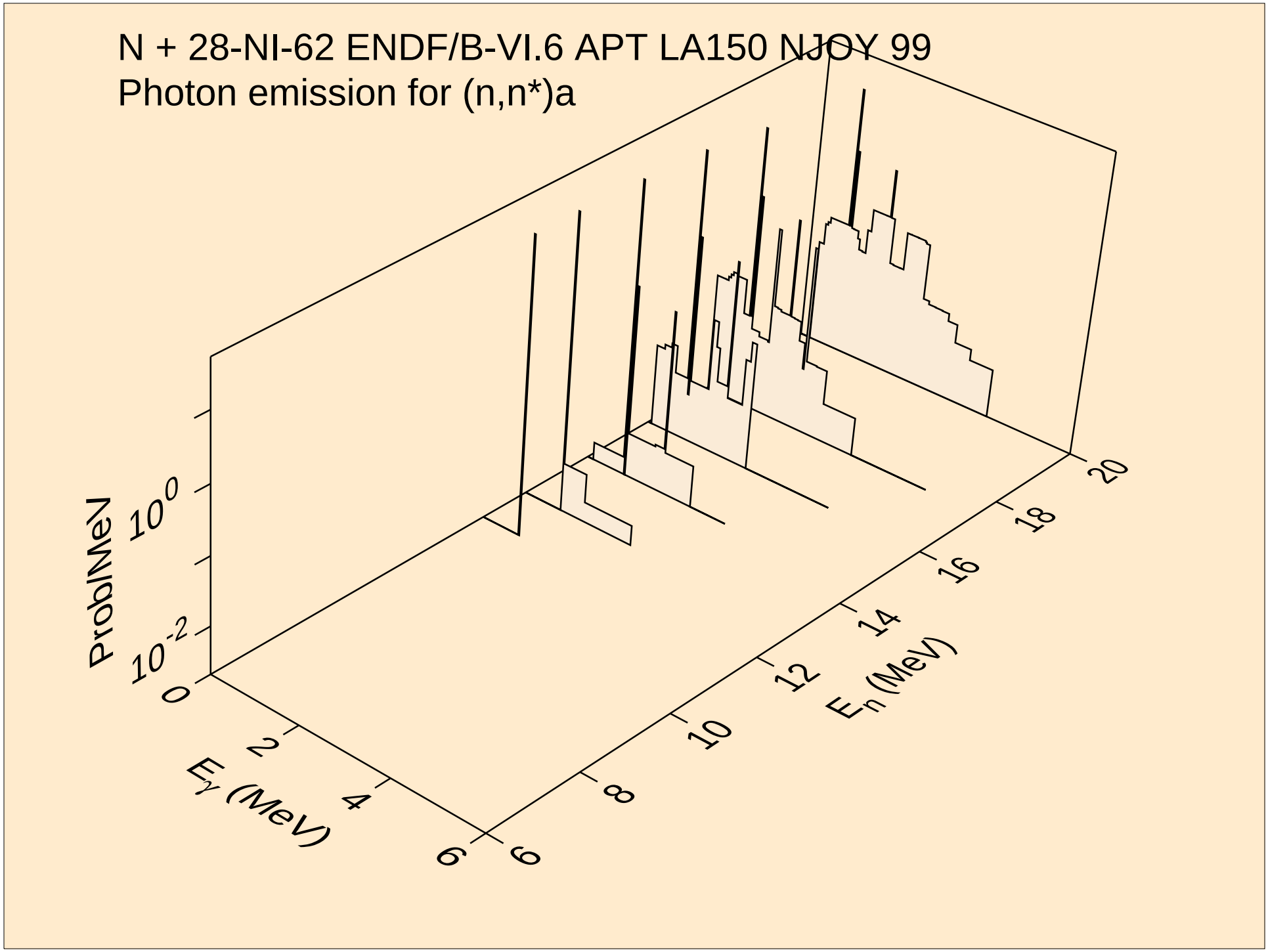

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Neutron emission for (n,n*)p
Prob/MeV
10-1
10-3
0
2
4
6
8
10
Sec. Energy
12
14
16
18
20
Energy (MeV)

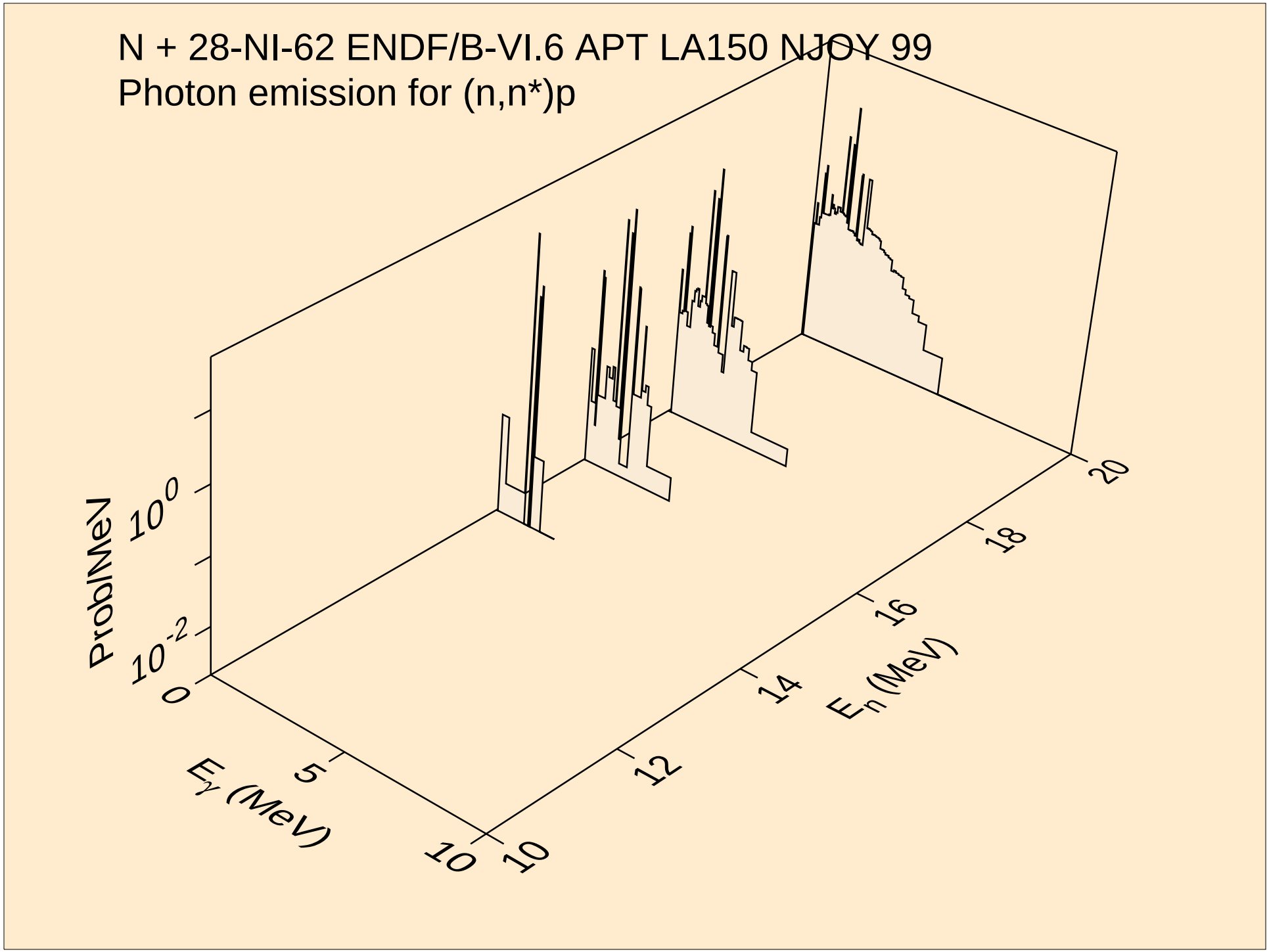

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Neutron emission for (n,n*c)
Prob/MeV
10^0
10^-2
0
5
10
15
20
Sec. Energy
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

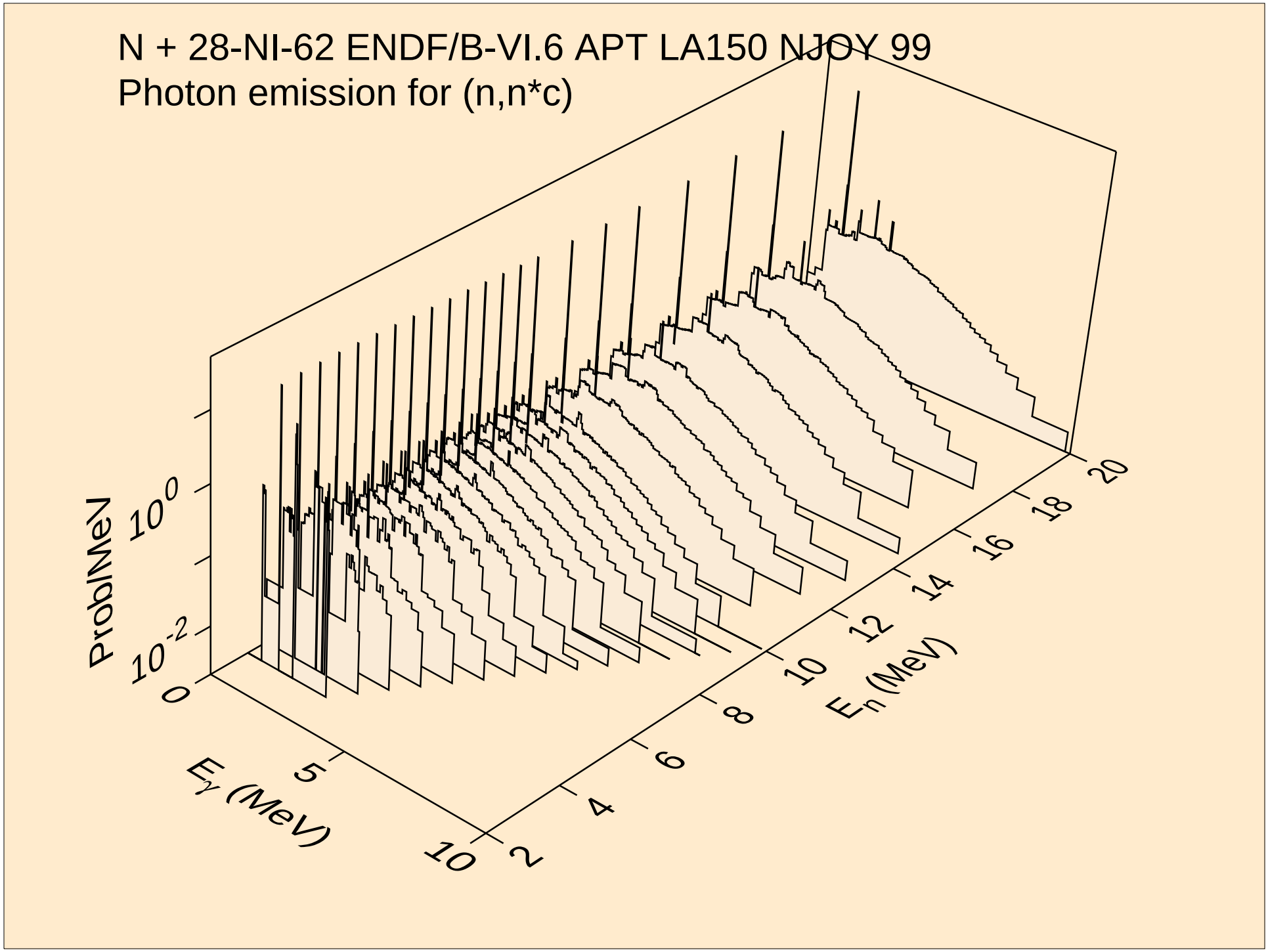

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Photon emission for (n,gma)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
E_γ (MeV)
5
10
15
20
E_n (MeV)

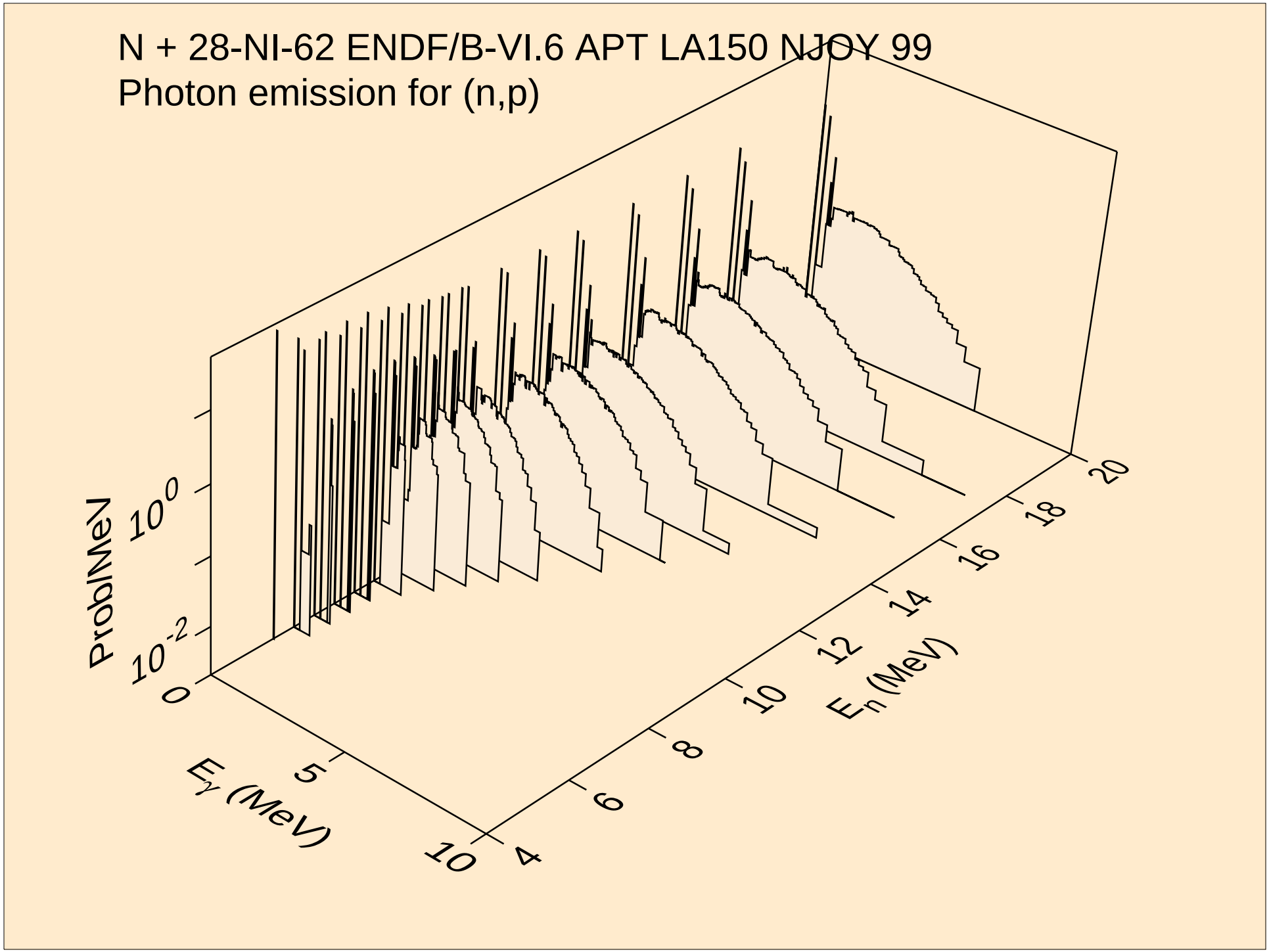

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Photon emission for (n,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
E_γ (MeV)
0
20
40
E_n (MeV)
0
20
40
60
80
100
120
140
160

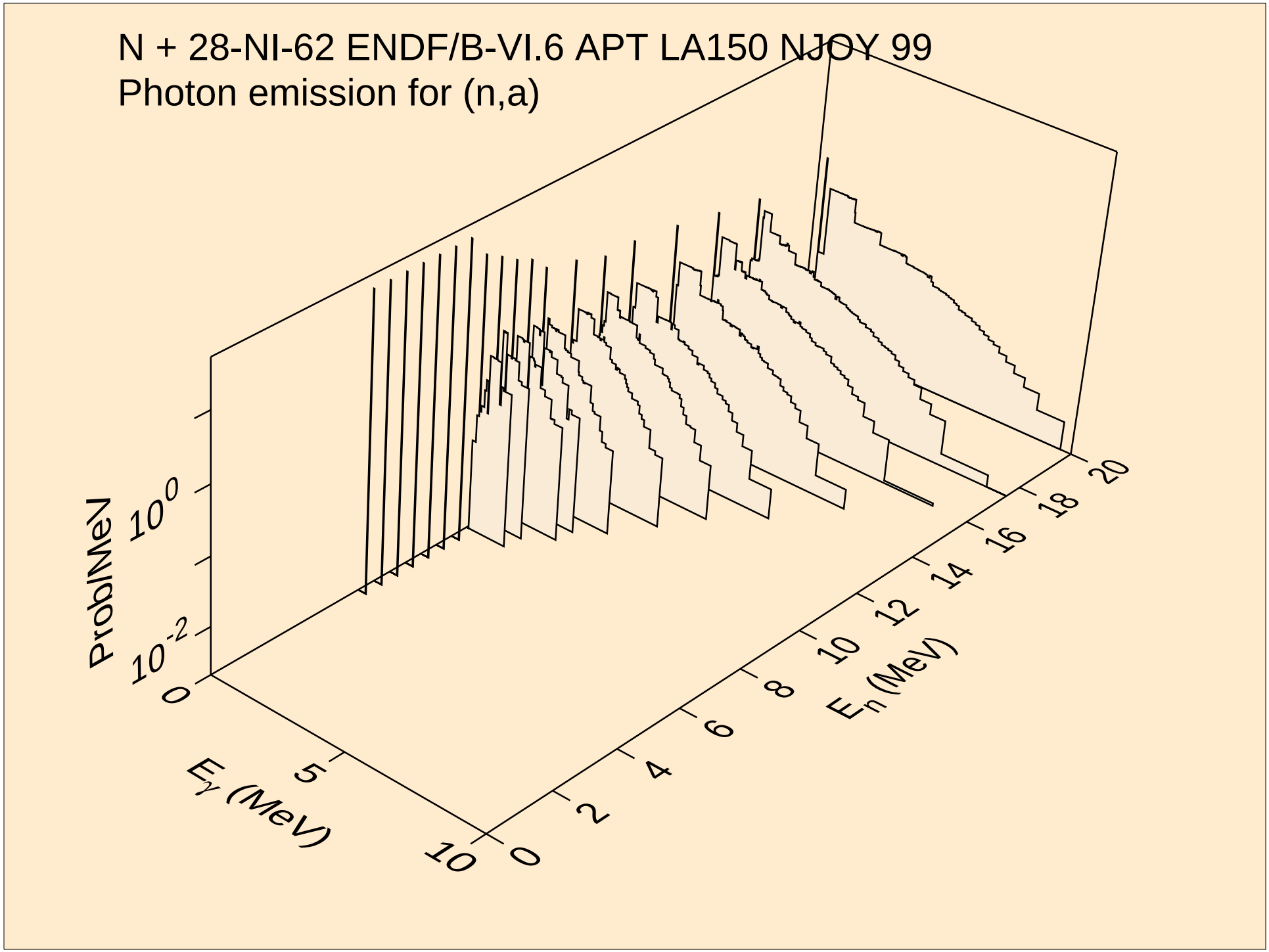

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Photon emission for (n,2n)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
10
12
14
16
18
20
E_n (MeV)

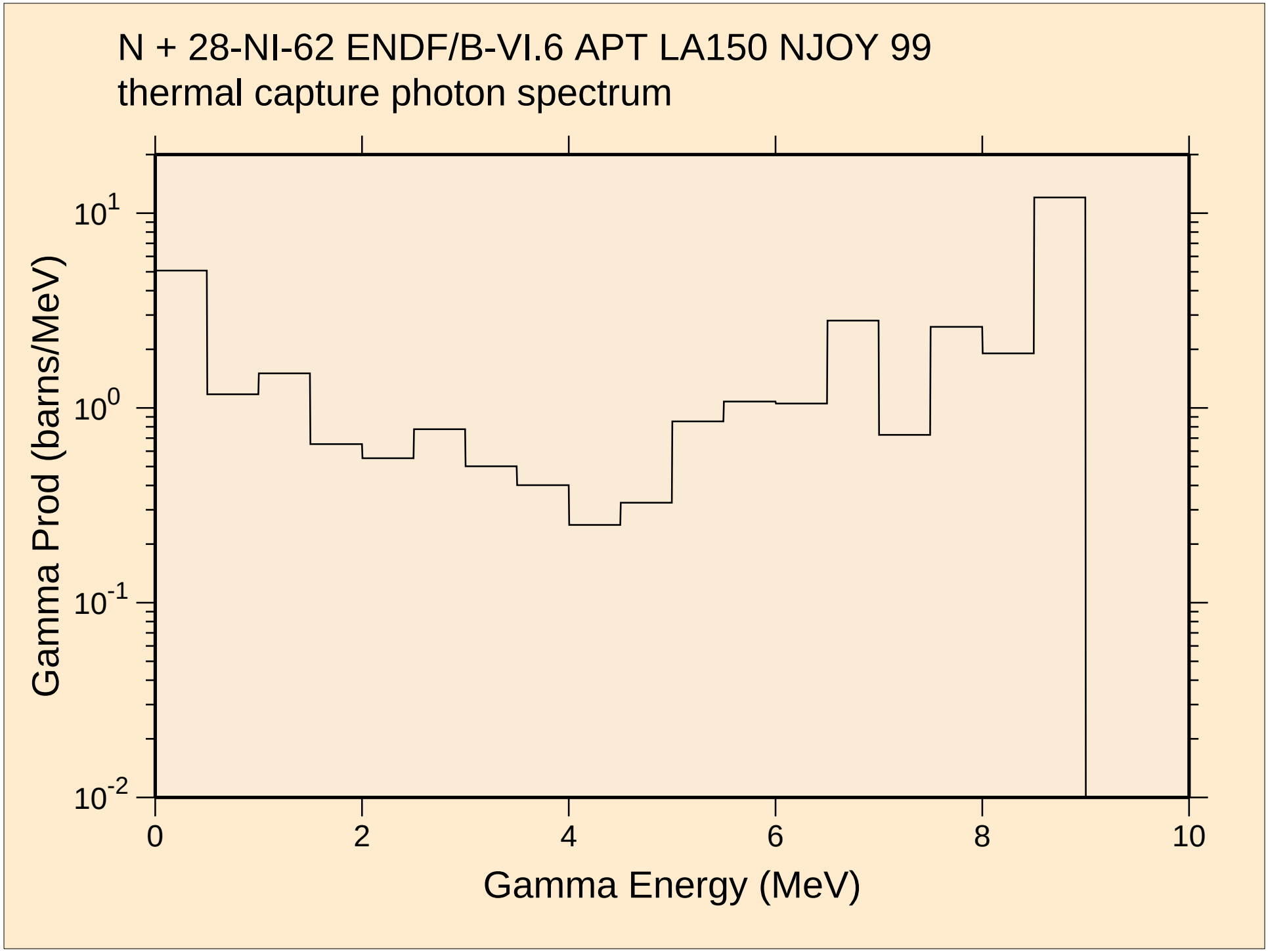

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Photon emission for (n,n*)a
Prob/MeV
10^0
10^-2
0
2
4
6
E_γ (MeV)
6
8
10
12
14
16
18
20
E_n (MeV)

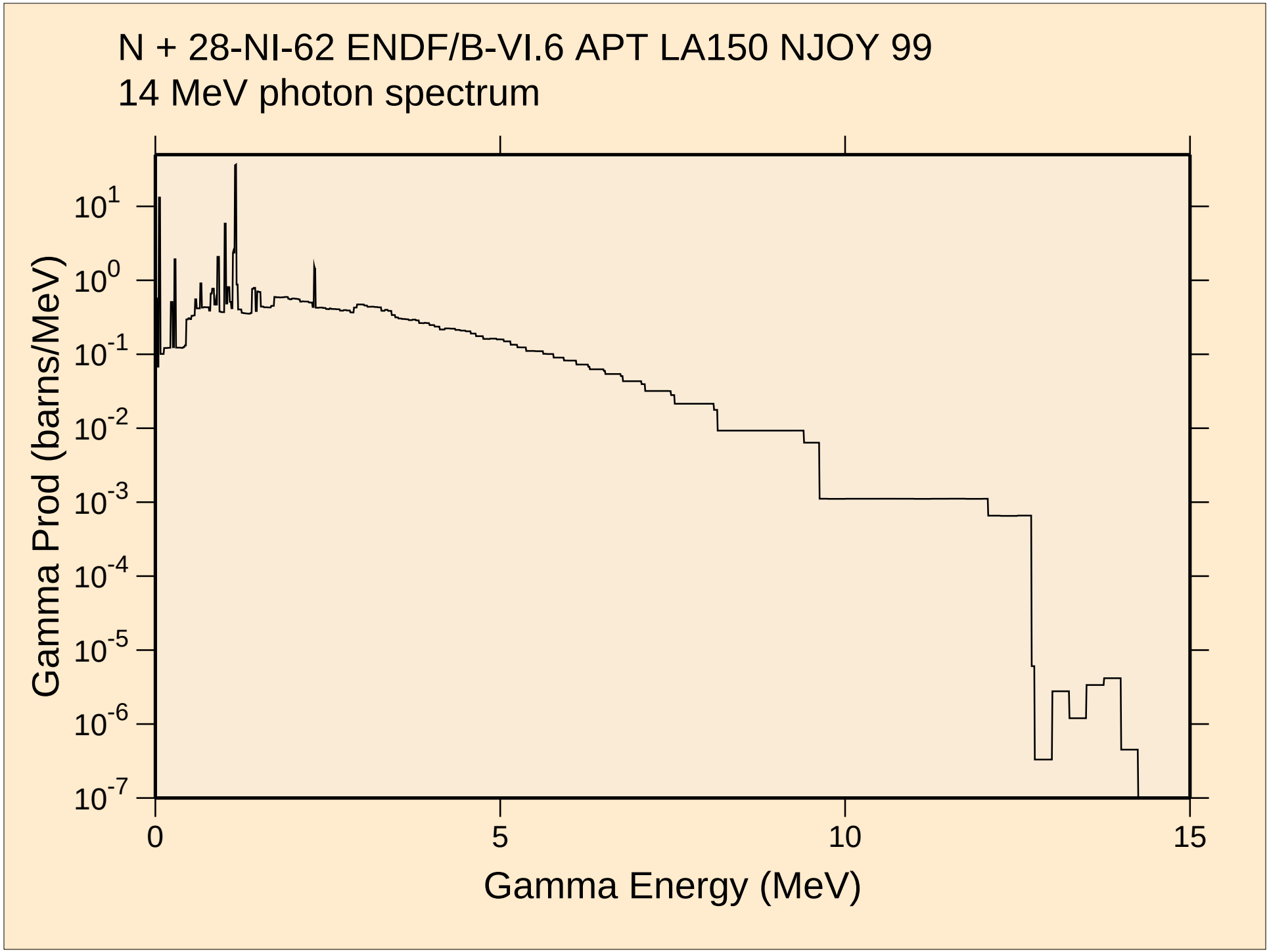

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Photon emission for (n,n*)p
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
10
12
14
16
18
20
E_n (MeV)

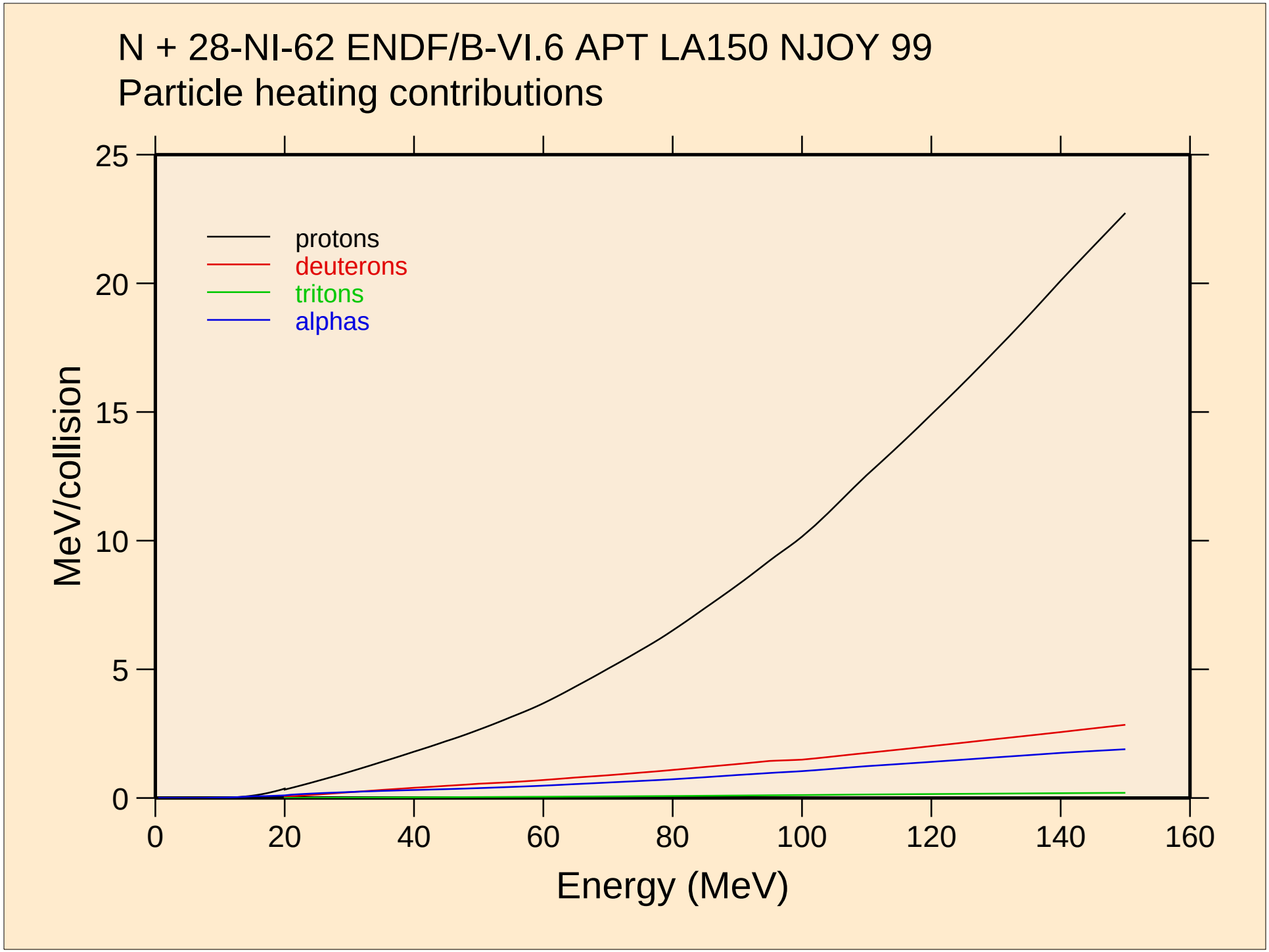

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Photon emission for (n,n*c)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
5
10
2
4
6
8
10
12
14
16
18
20
E_n (MeV)

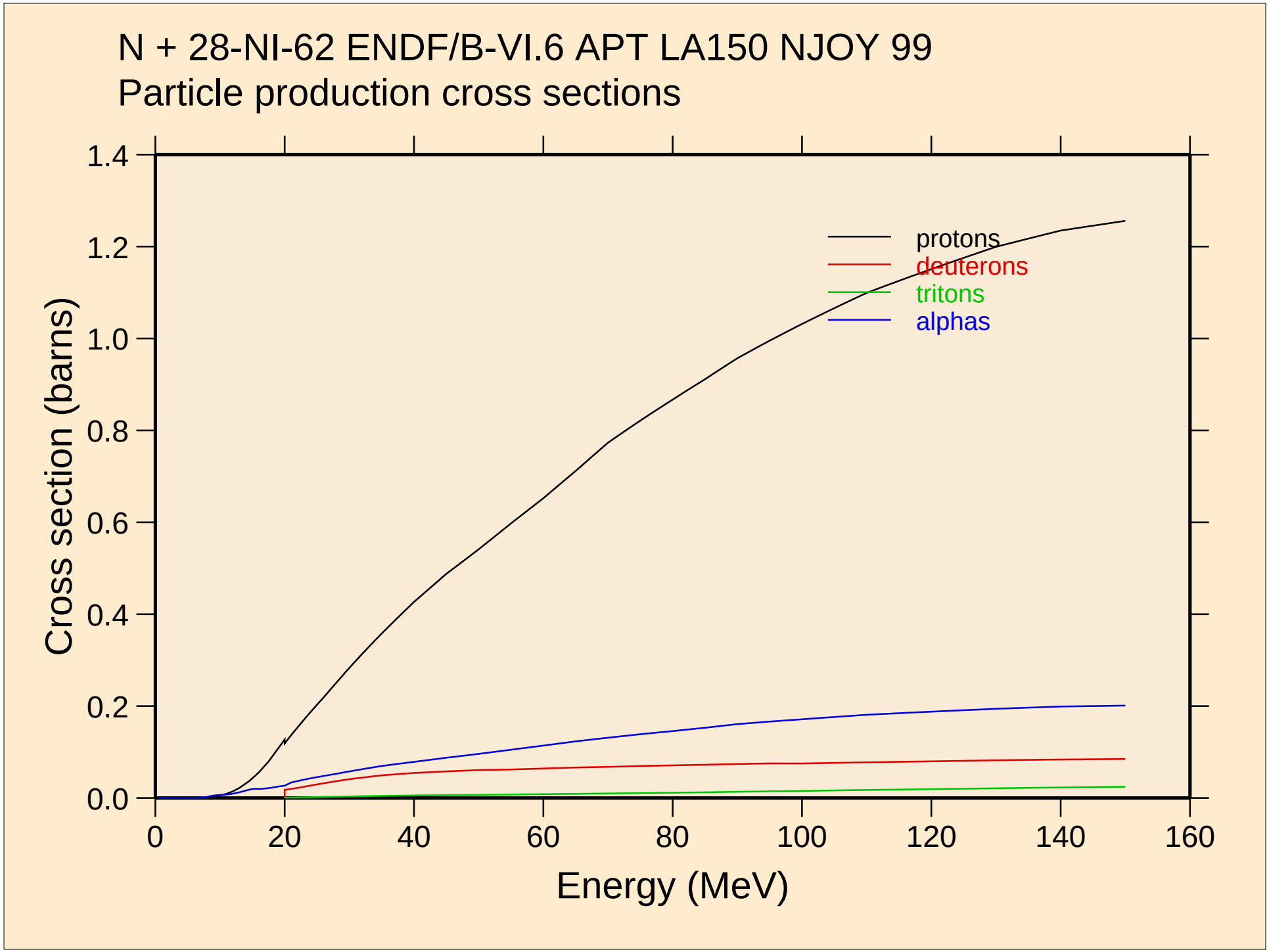

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Photon emission for (n,p)
Prob/MeV
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
4
6
8
10
12
14
16
18
20
E_n (MeV)

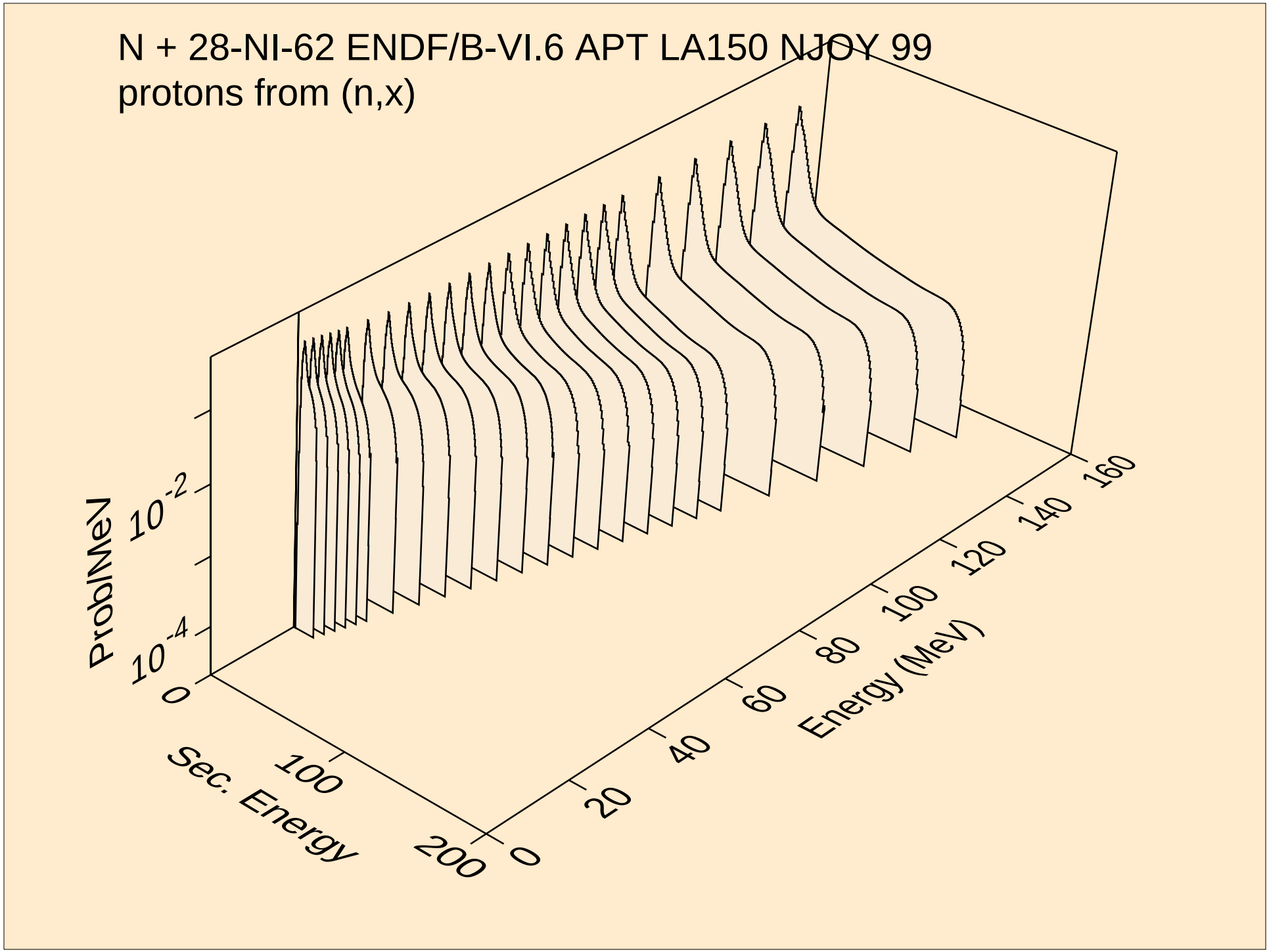

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Photon emission for (n,a)
Prob/MeV
10^0
10^-2
0
5
10
Eγ (MeV)
0
2
4
6
8
10
12
14
16
18
20
En (MeV)

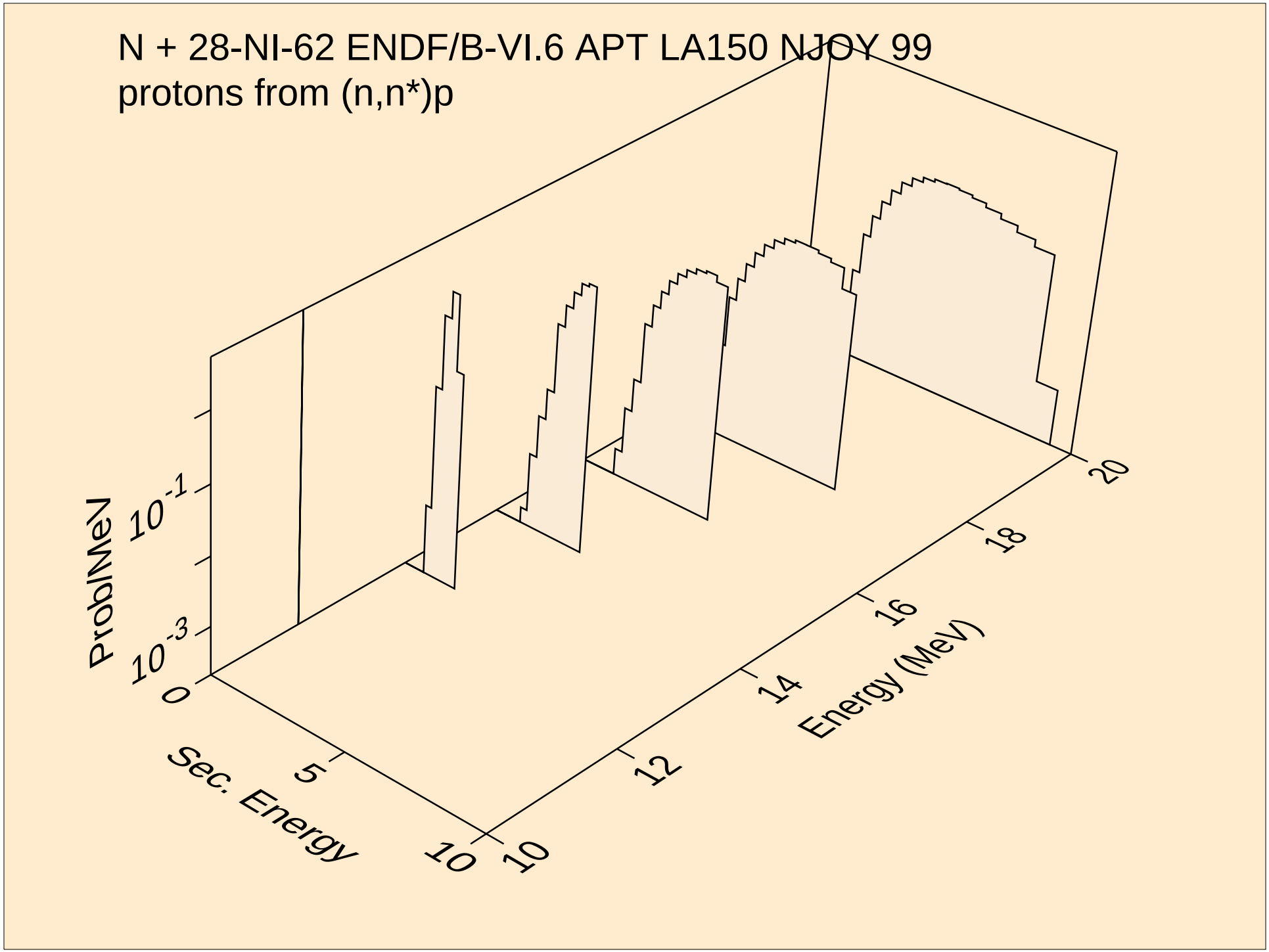

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10^1
10^0
10^-1
10^-2
0
2
4
6
8
10
Gamma Energy (MeV)

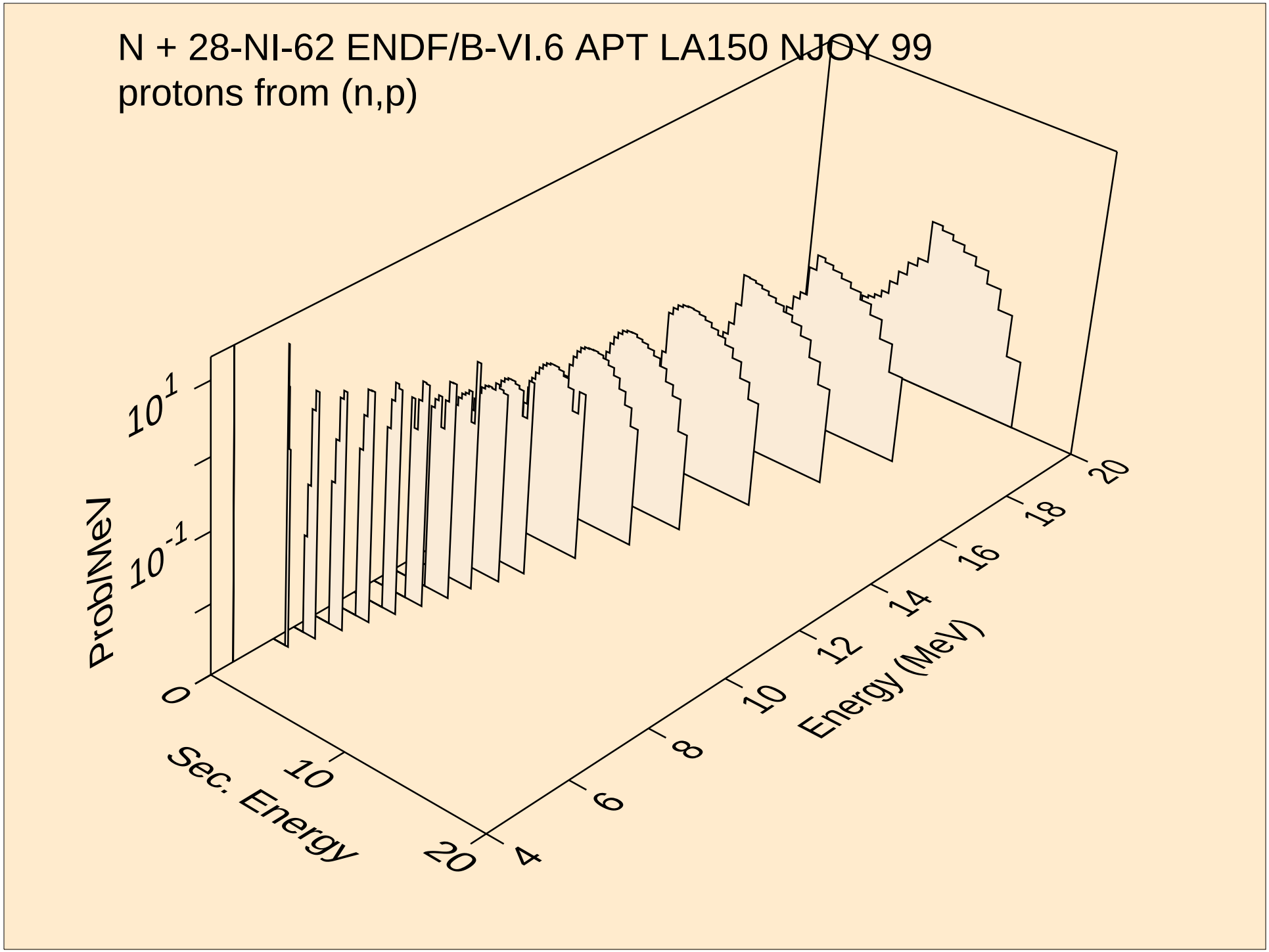

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
5
10
15
Gamma Energy (MeV)

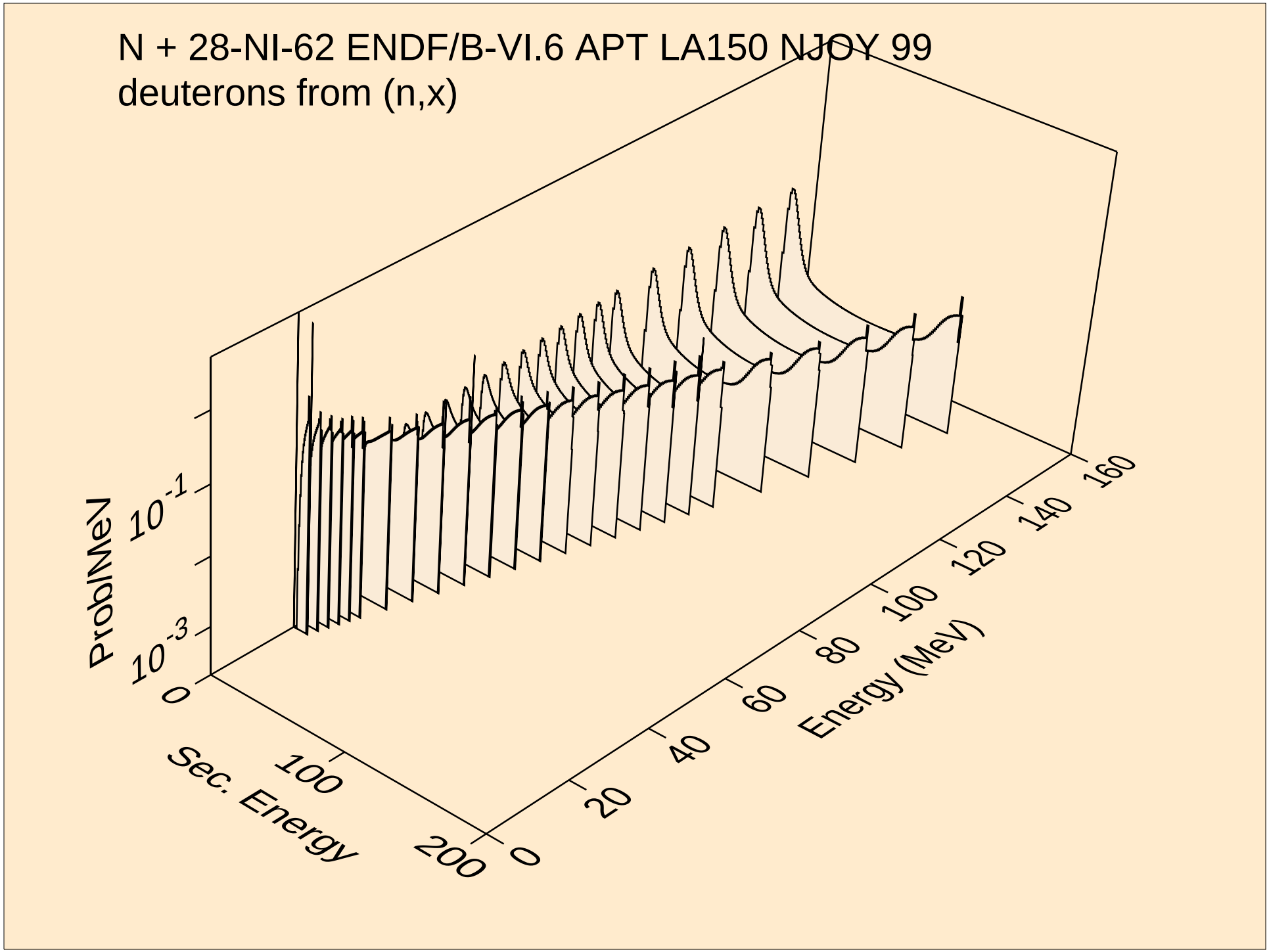

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Particle heating contributions
protons
deuterons
tritons
alphas
MeV/collision
Energy (MeV)
0
5
10
15
20
25
0
20
40
60
80
100
120
140
160

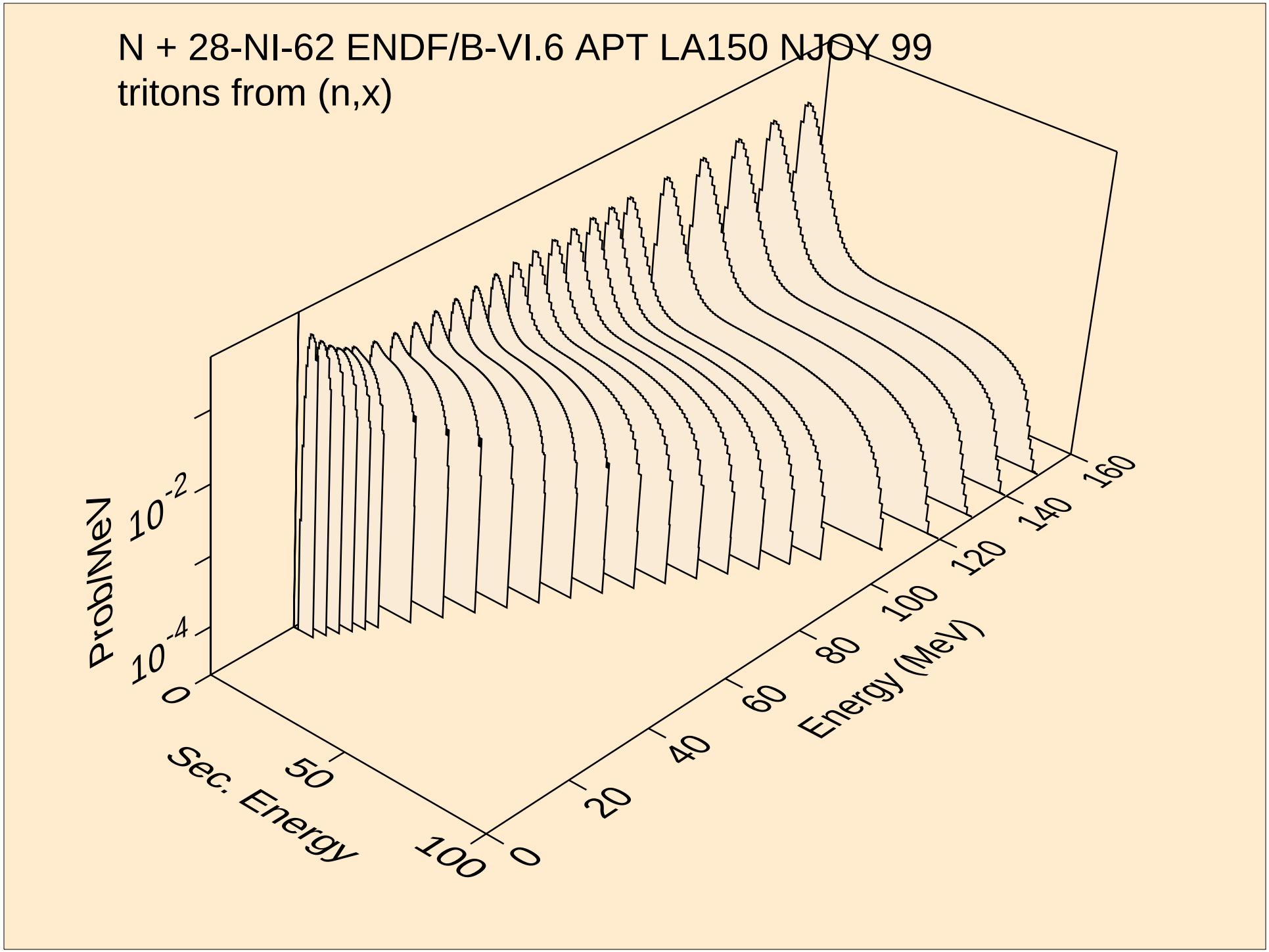

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
Particle production cross sections
Cross section (barns)
Energy (MeV)
protons
deuterons
tritons
alphas
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
20
40
60
80
100
120
140
160

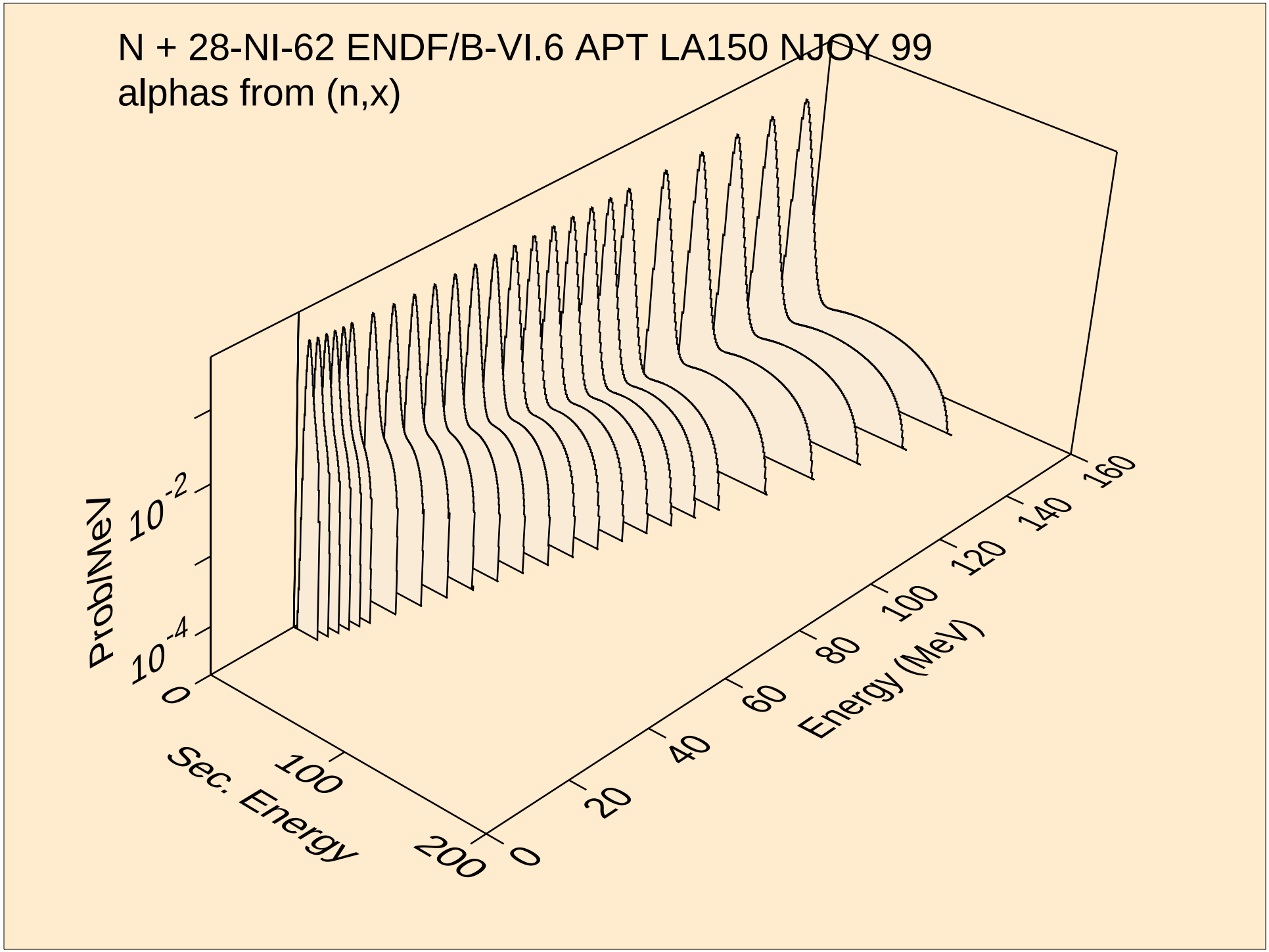

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
protons from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)

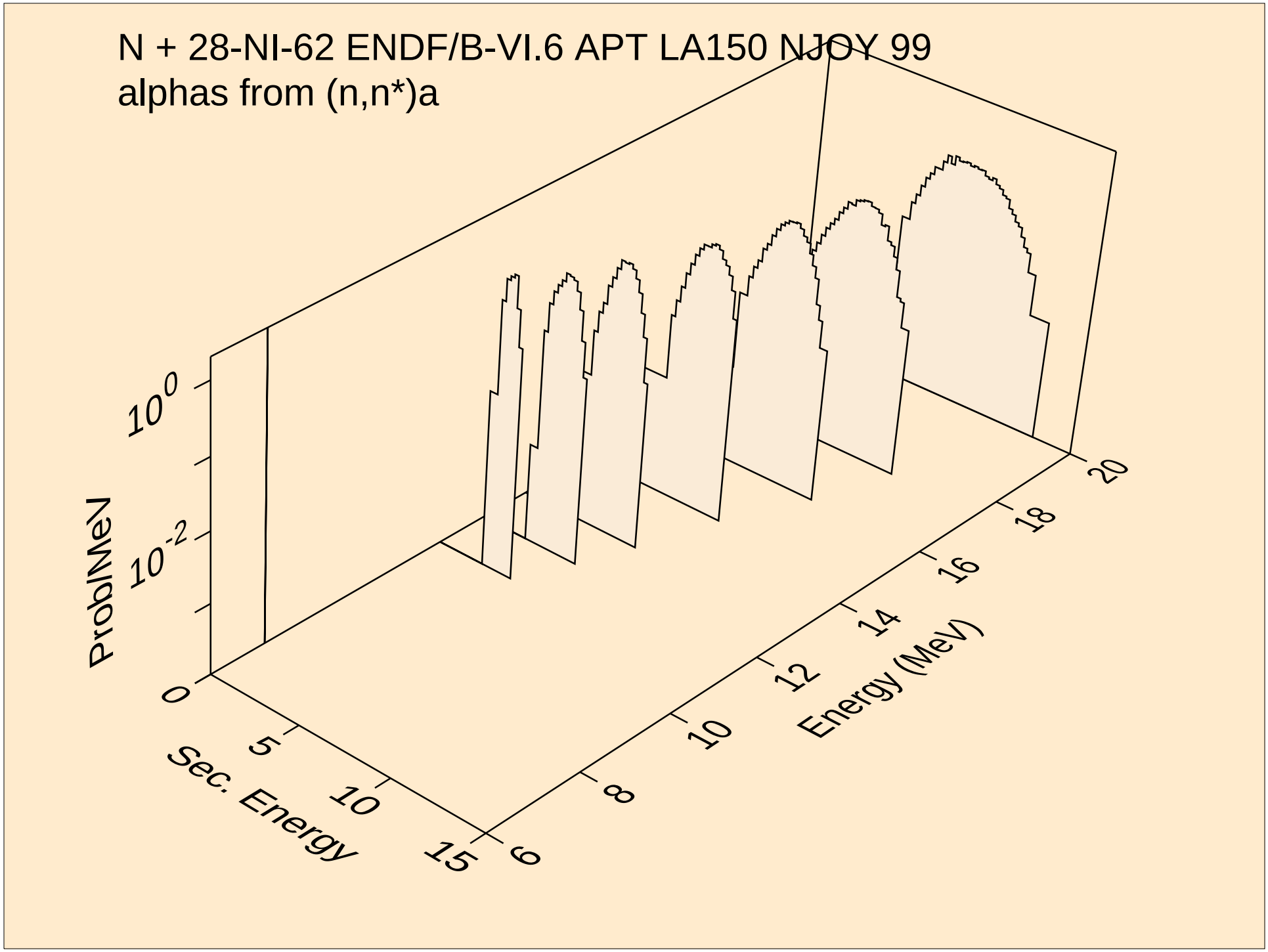

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
protons from (n,n*)p
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
10
12
14
16
18
20
Energy (MeV)

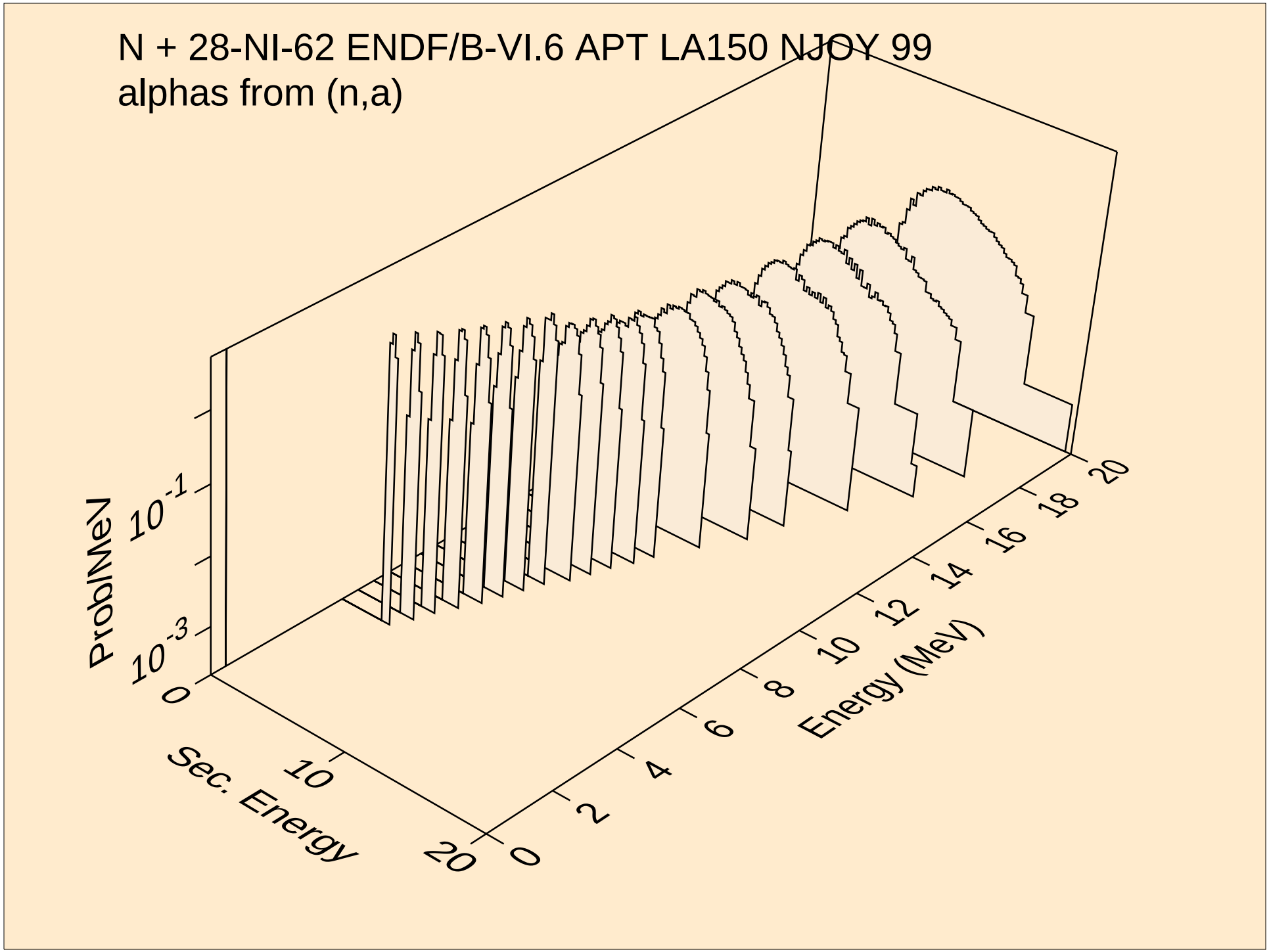

N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
protons from (n,p)
Prob/MeV
10^1
10^-1
0
Sec. Energy
10
20
4
6
8
10
12
14
16
18
20
Energy (MeV)


N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
deuterons 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)


N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
tritons from (n,x)
Prob/MeV
10-2
10-4
0
Sec. Energy
50
100
0
20
40
60
80
100
120
140
160
Energy (MeV)


N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
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)


N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
alphas from (n,n*)a
Prob/MeV
10^0
10^-2
0
5
10
15
Sec. Energy
6
8
10
12
14
16
18
20
Energy (MeV)


N + 28-NI-62 ENDF/B-VI.6 APT LA150 NJOY 99
alphas from (n,a)
Prob/MeV
10^-1
10^-3
0
Sec. Energy
10
20
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)