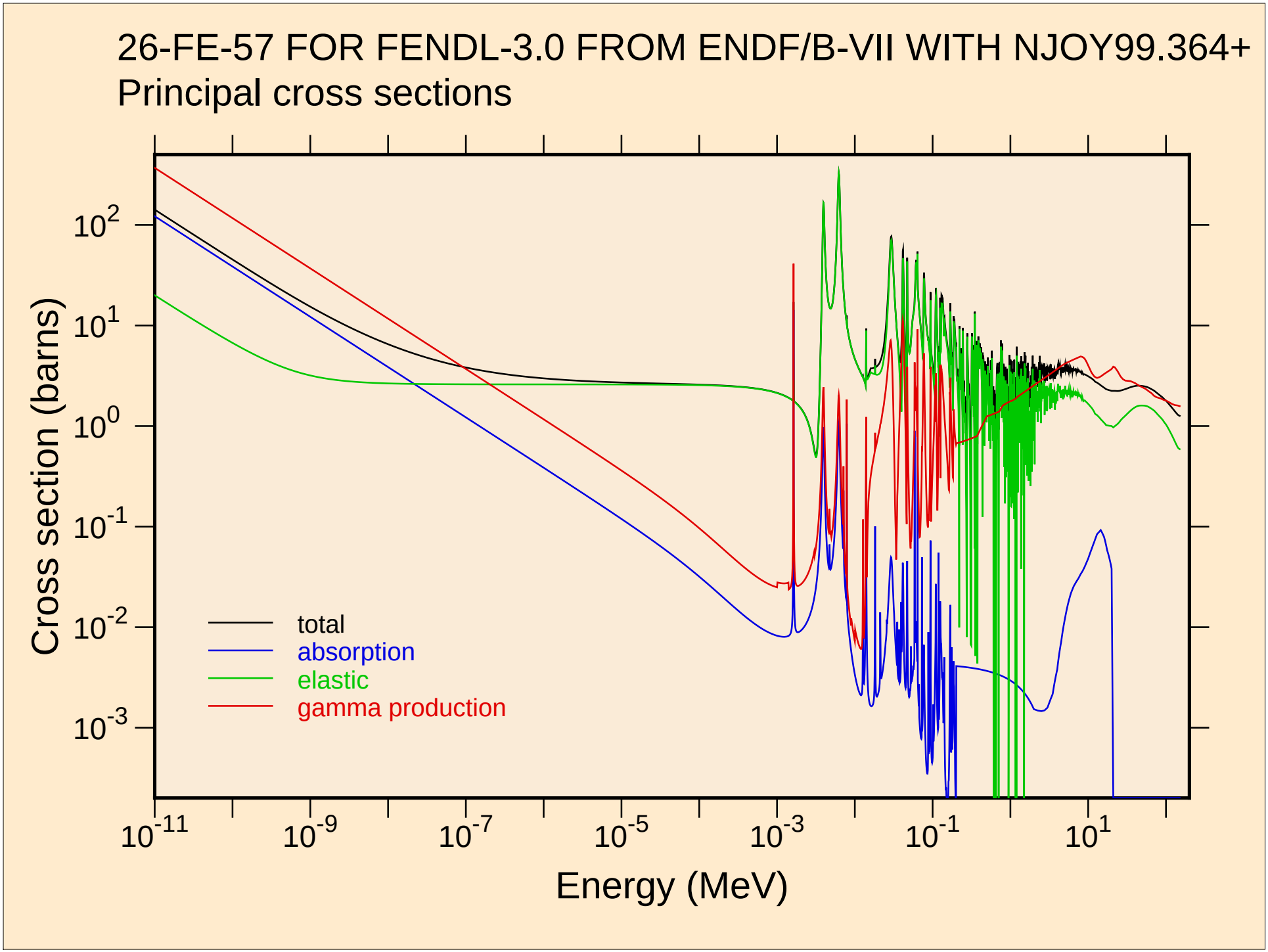
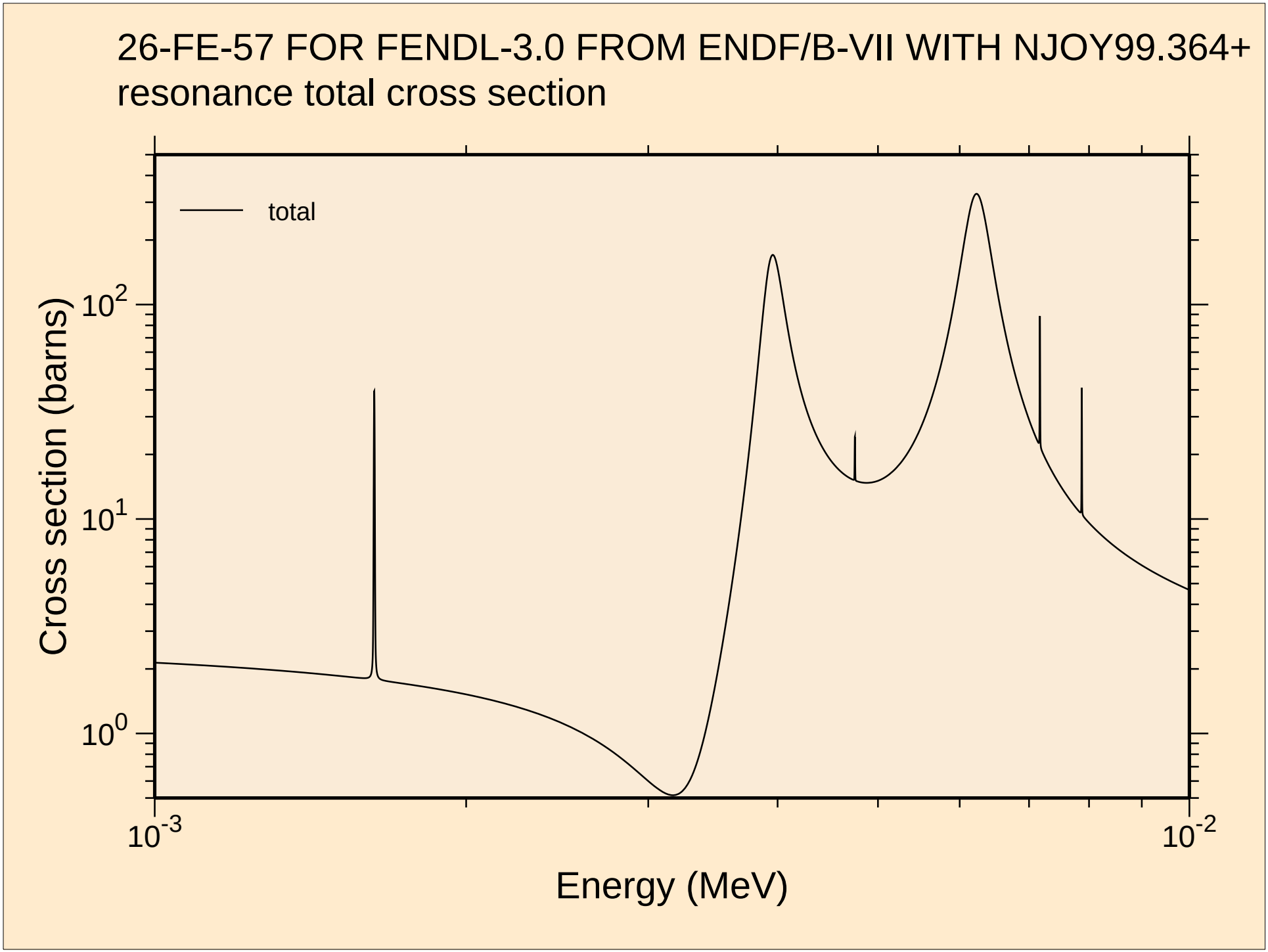
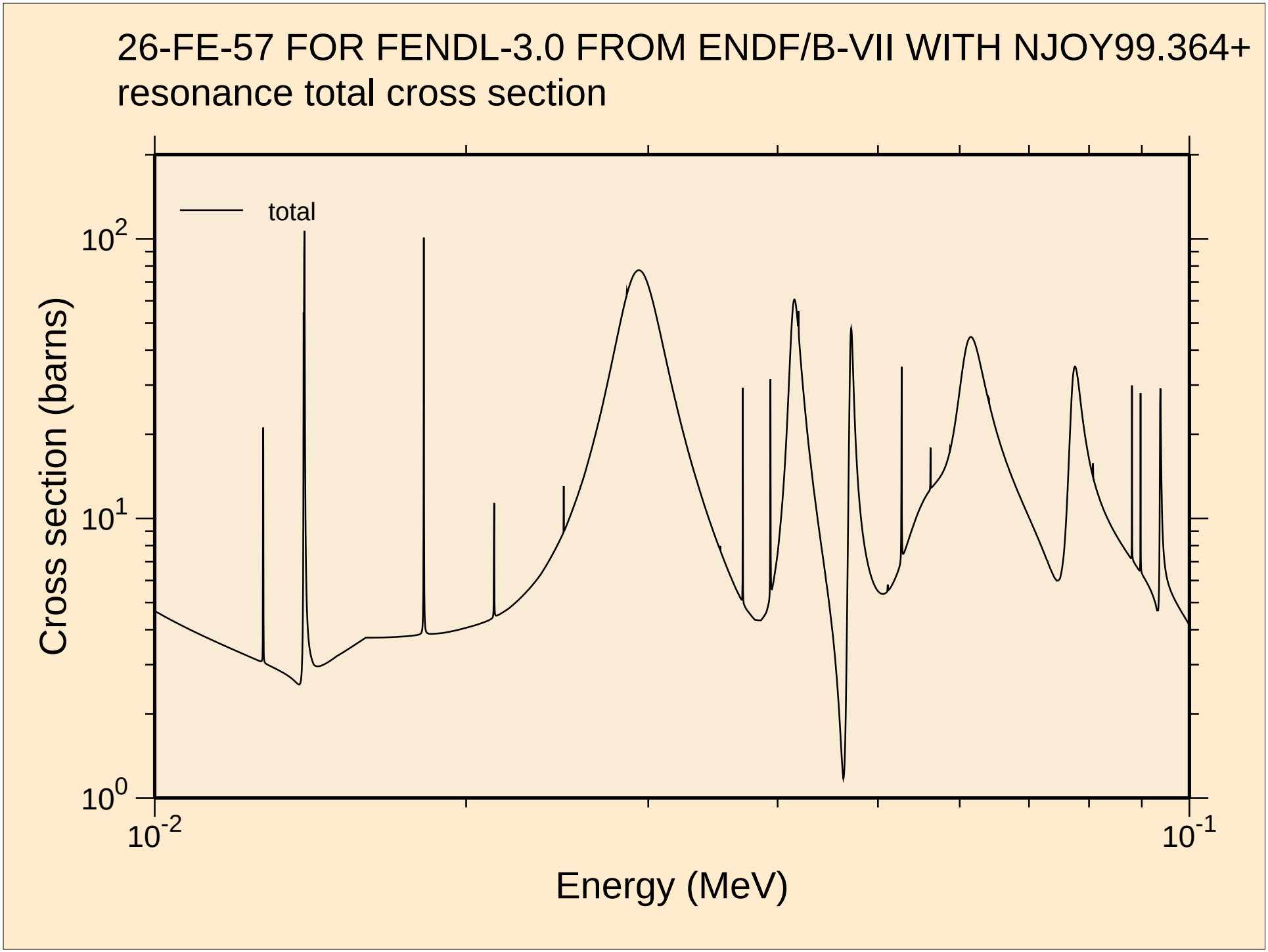
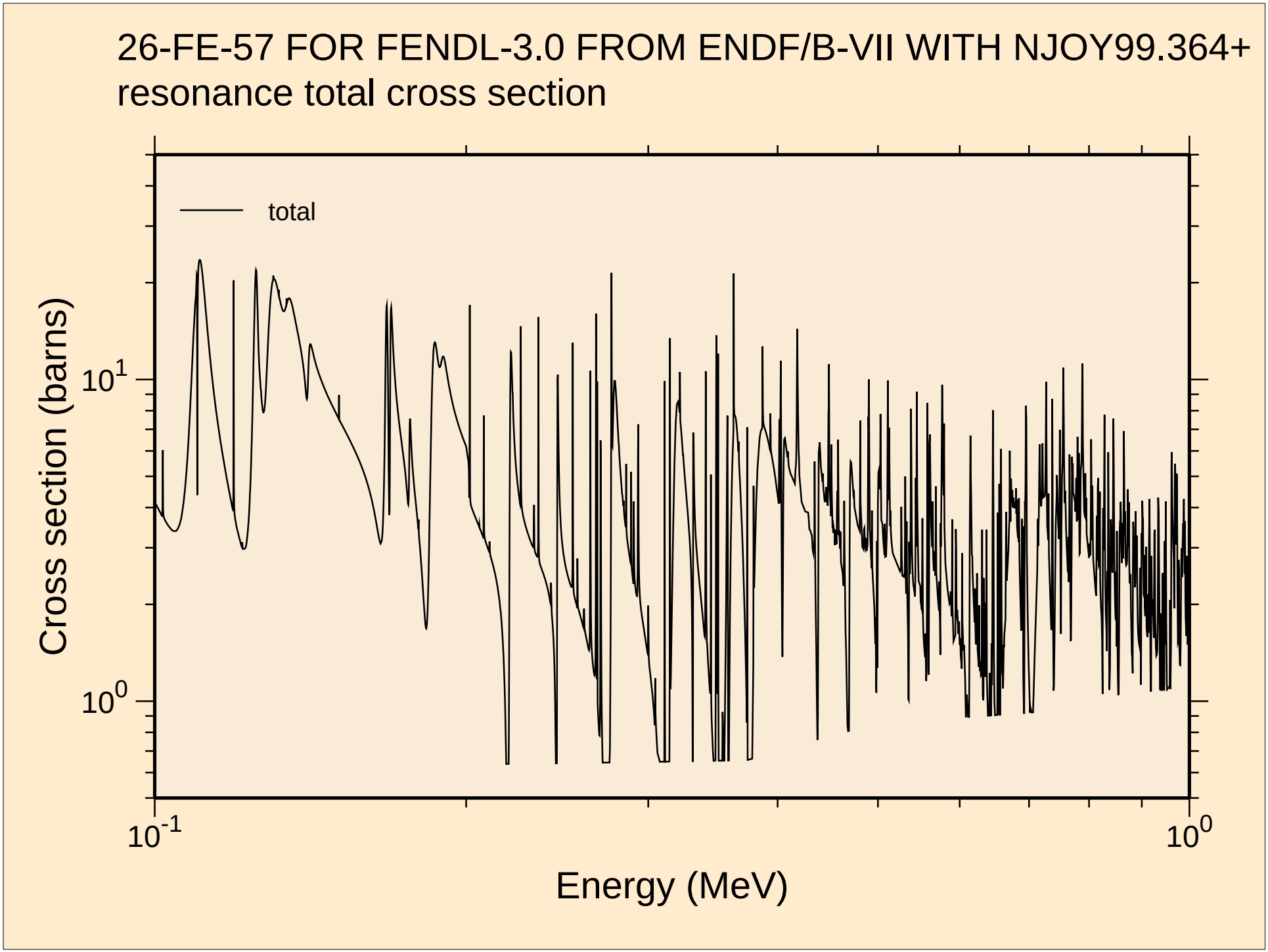
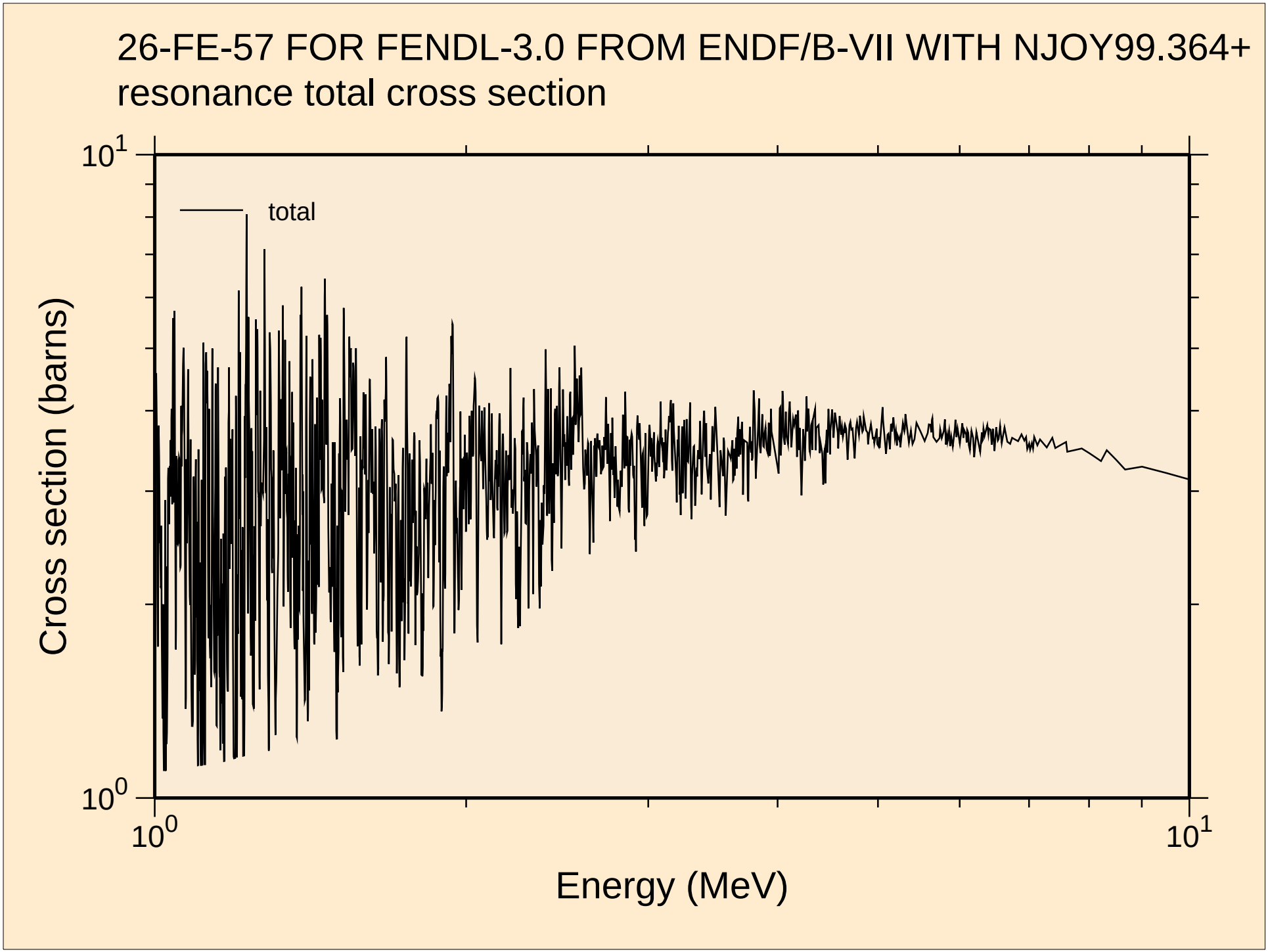
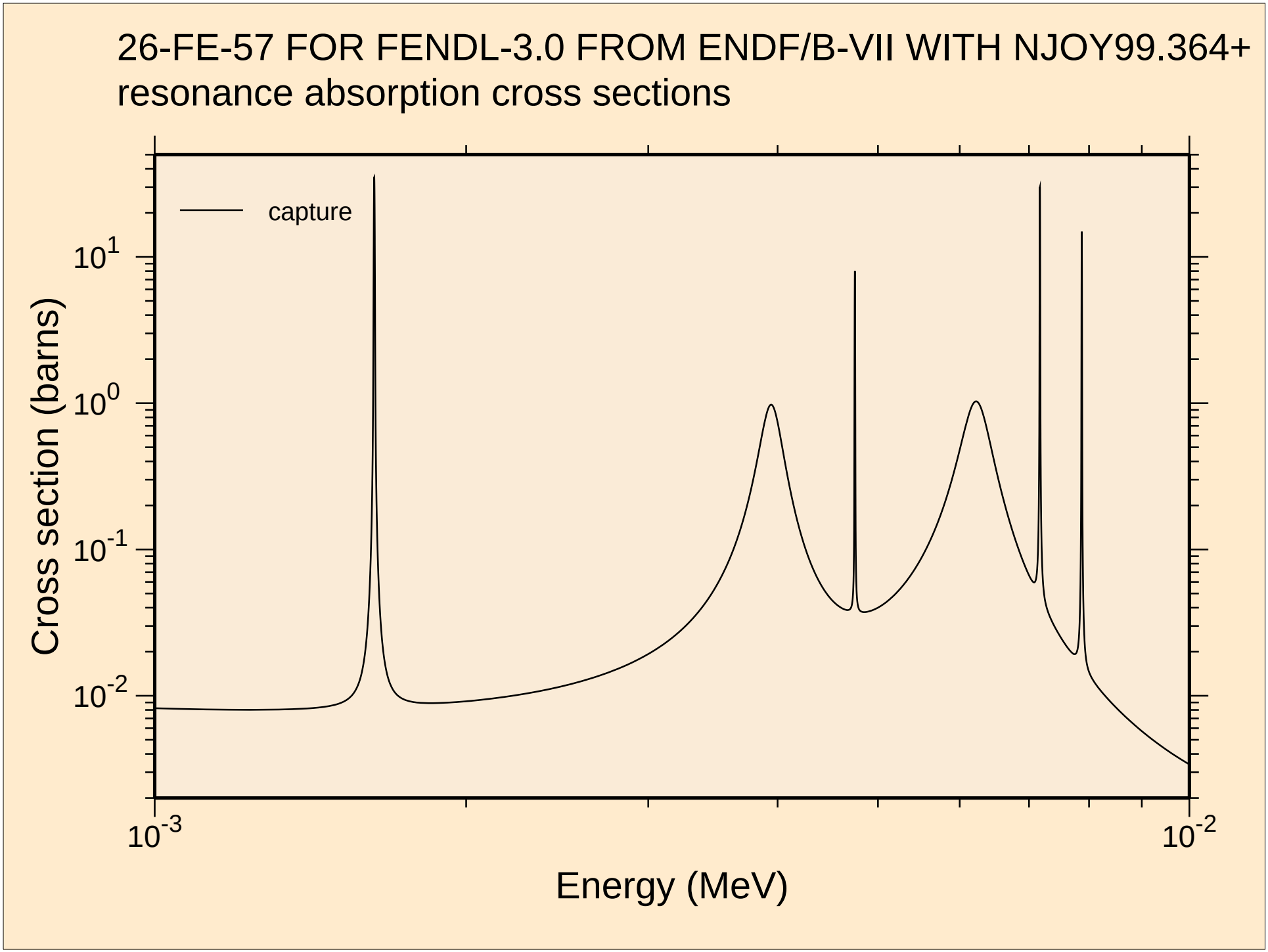

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Principal cross sections
Cross section (barns)
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
total
absorption
elastic
gamma production
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

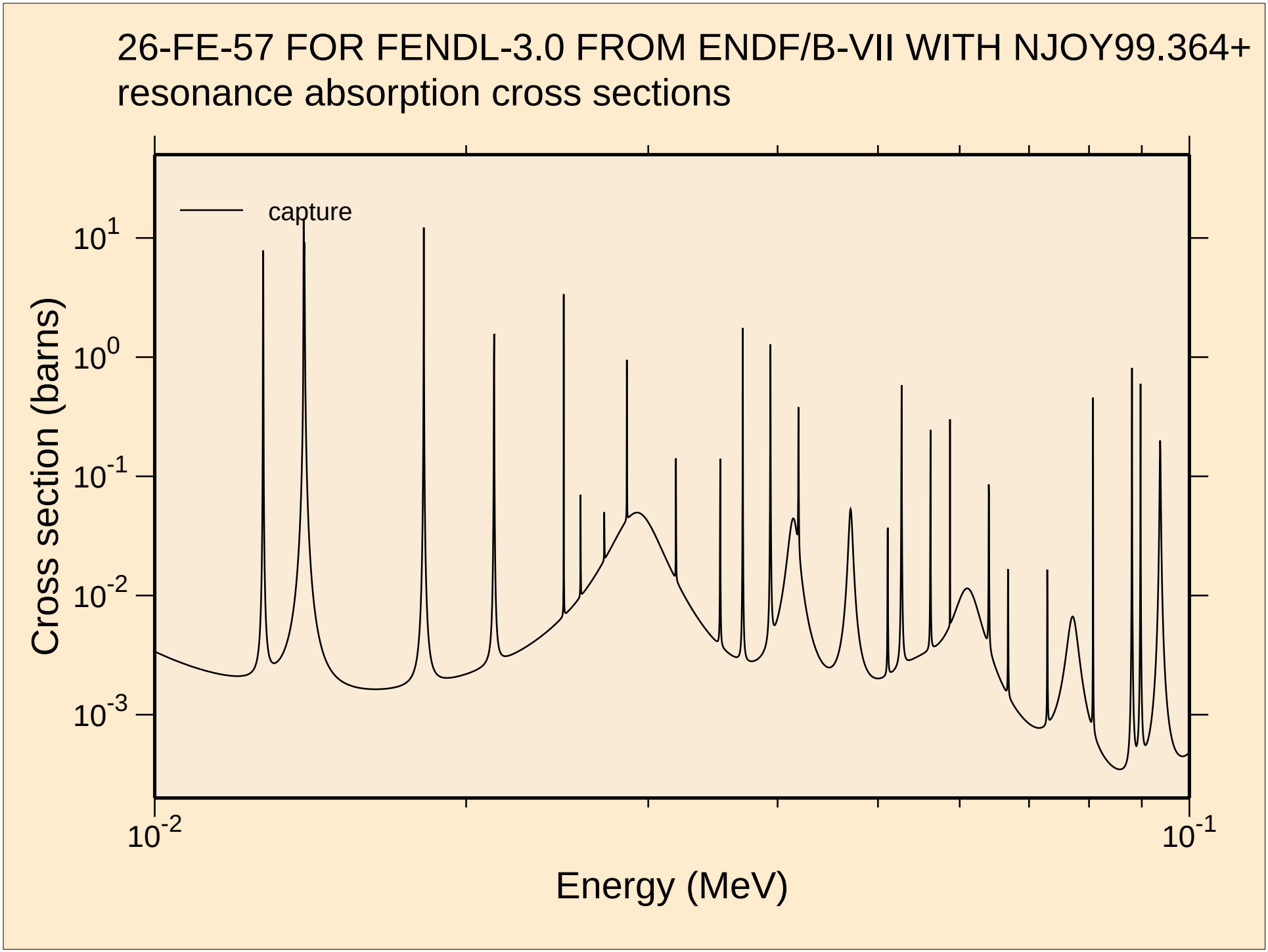

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^2
10^1
10^0
10^-3
10^-2
Energy (MeV)

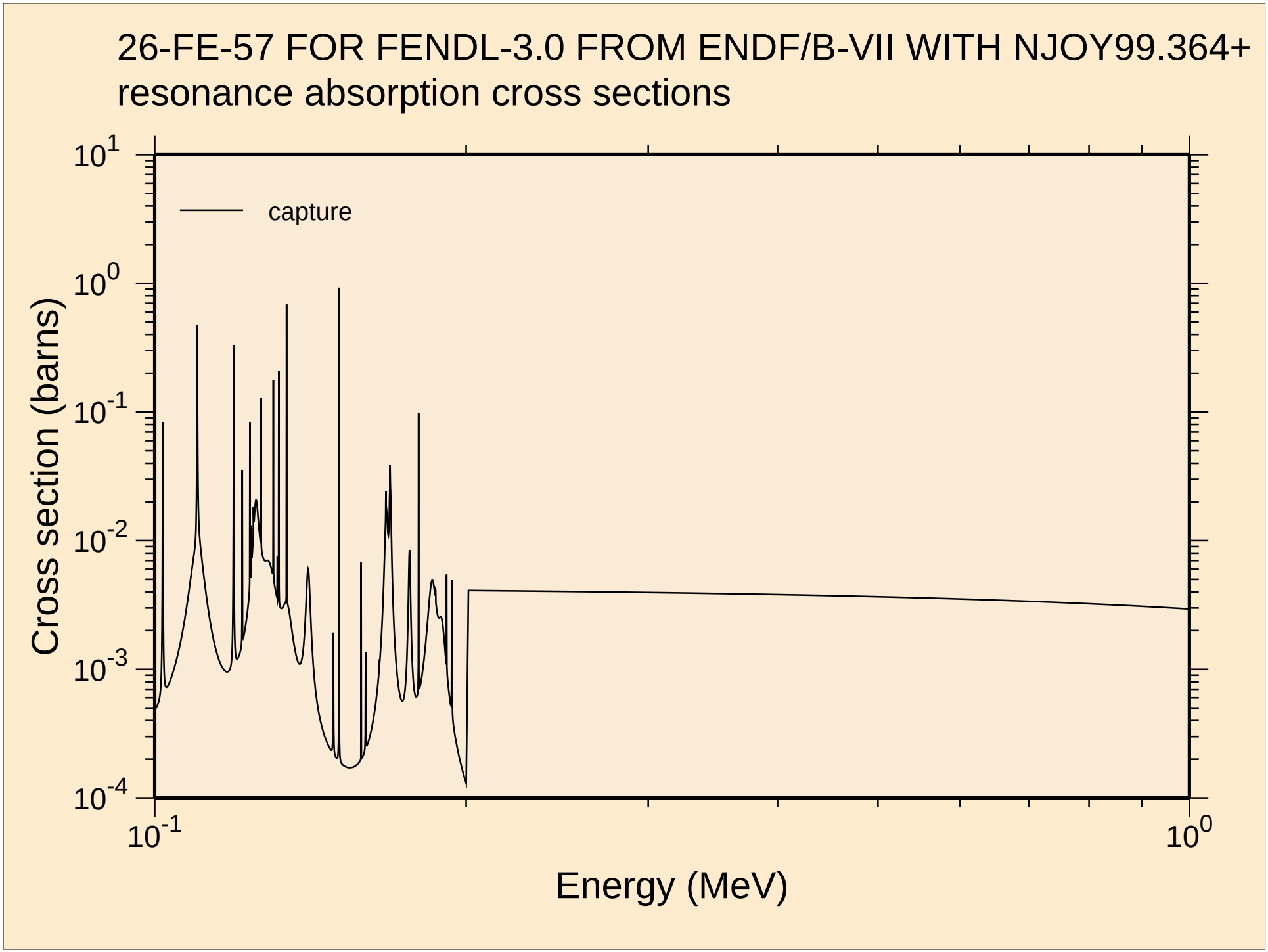

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^2
10^1
10^0
10^{-2}
10^{-1}
Energy (MeV)

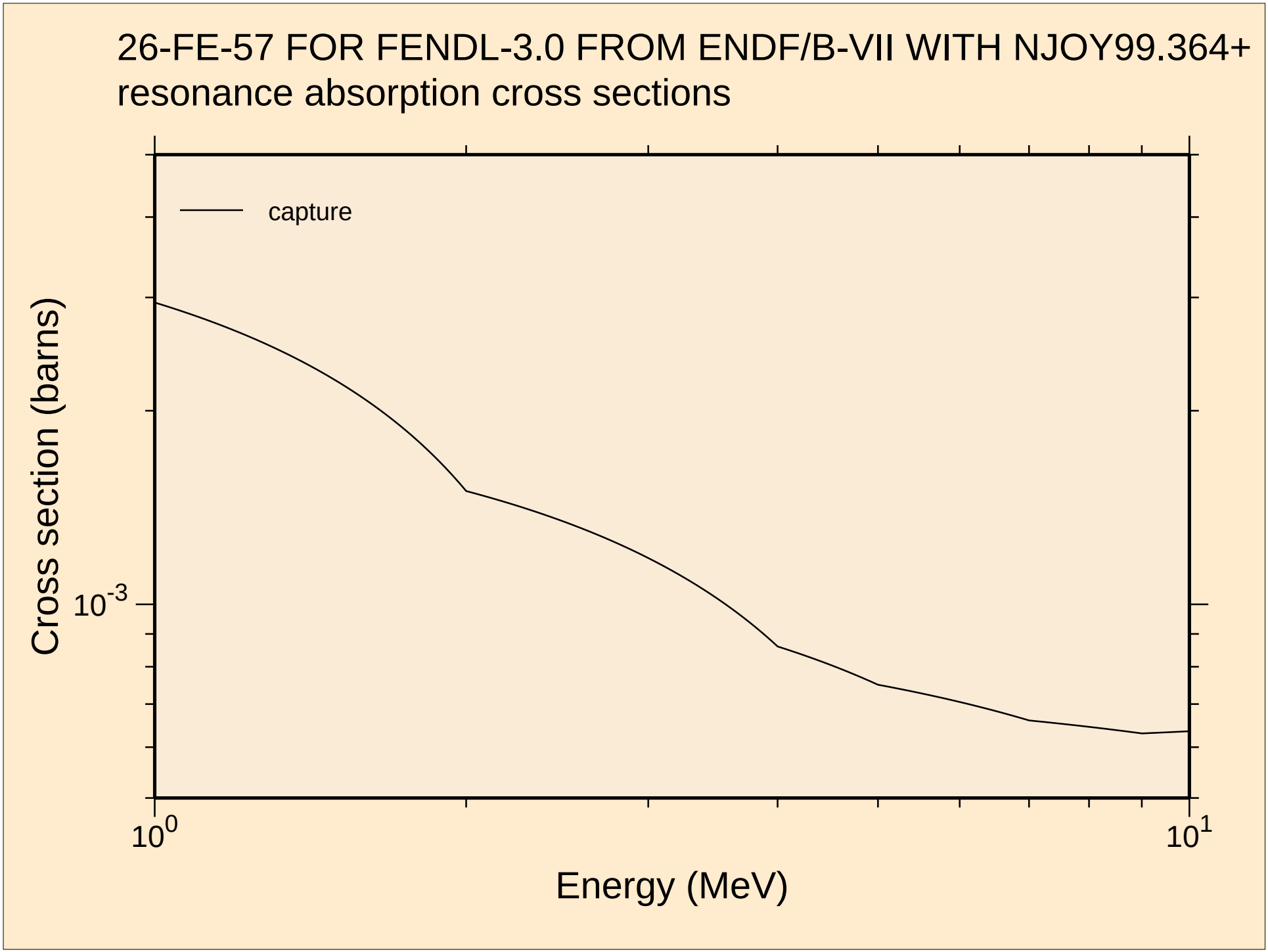

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
10^1
10^0
10^-1
10^0
Energy (MeV)

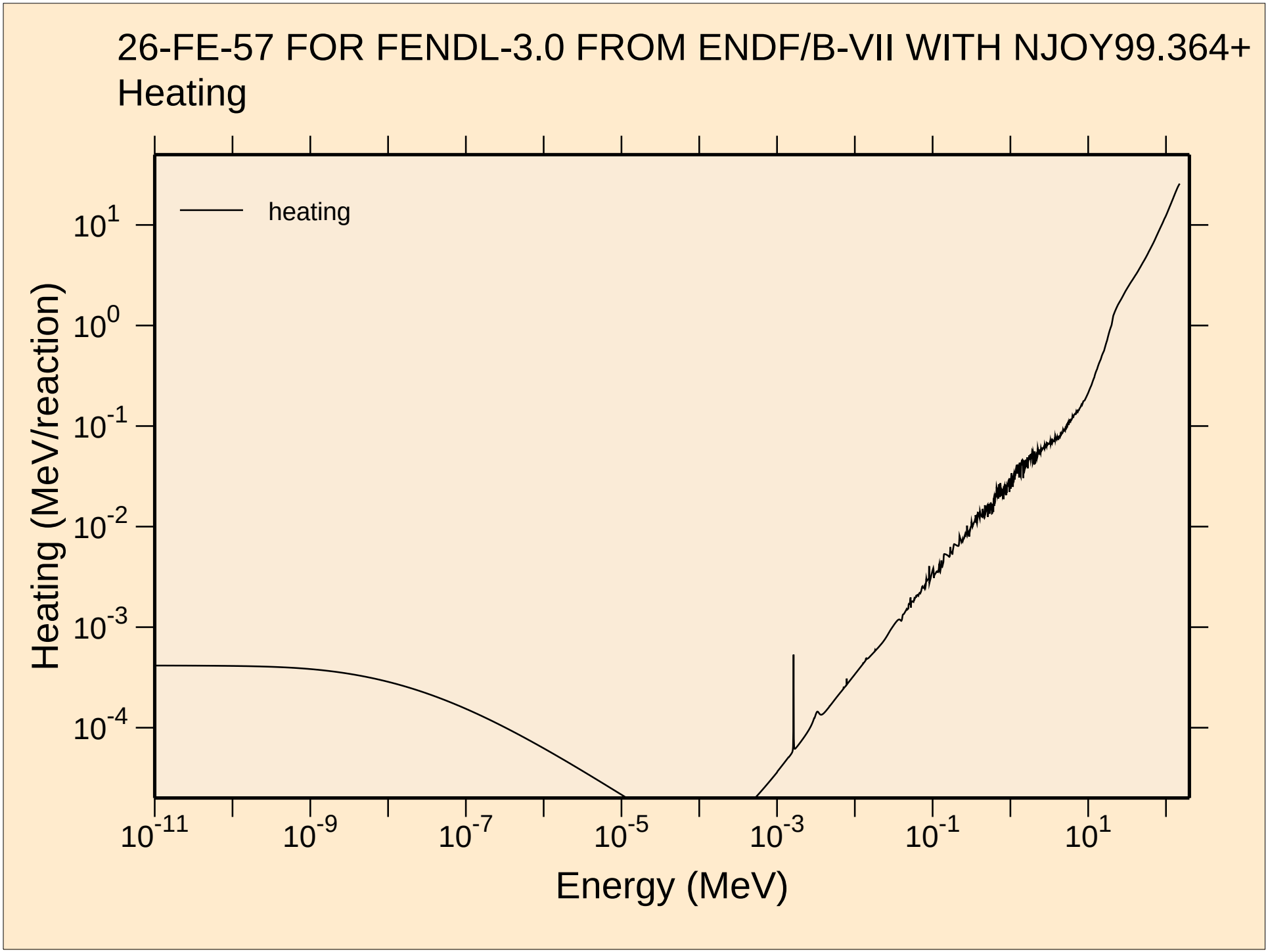

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance total cross section
total
Cross section (barns)
Energy (MeV)
10^1
10^0
10^0
10^1

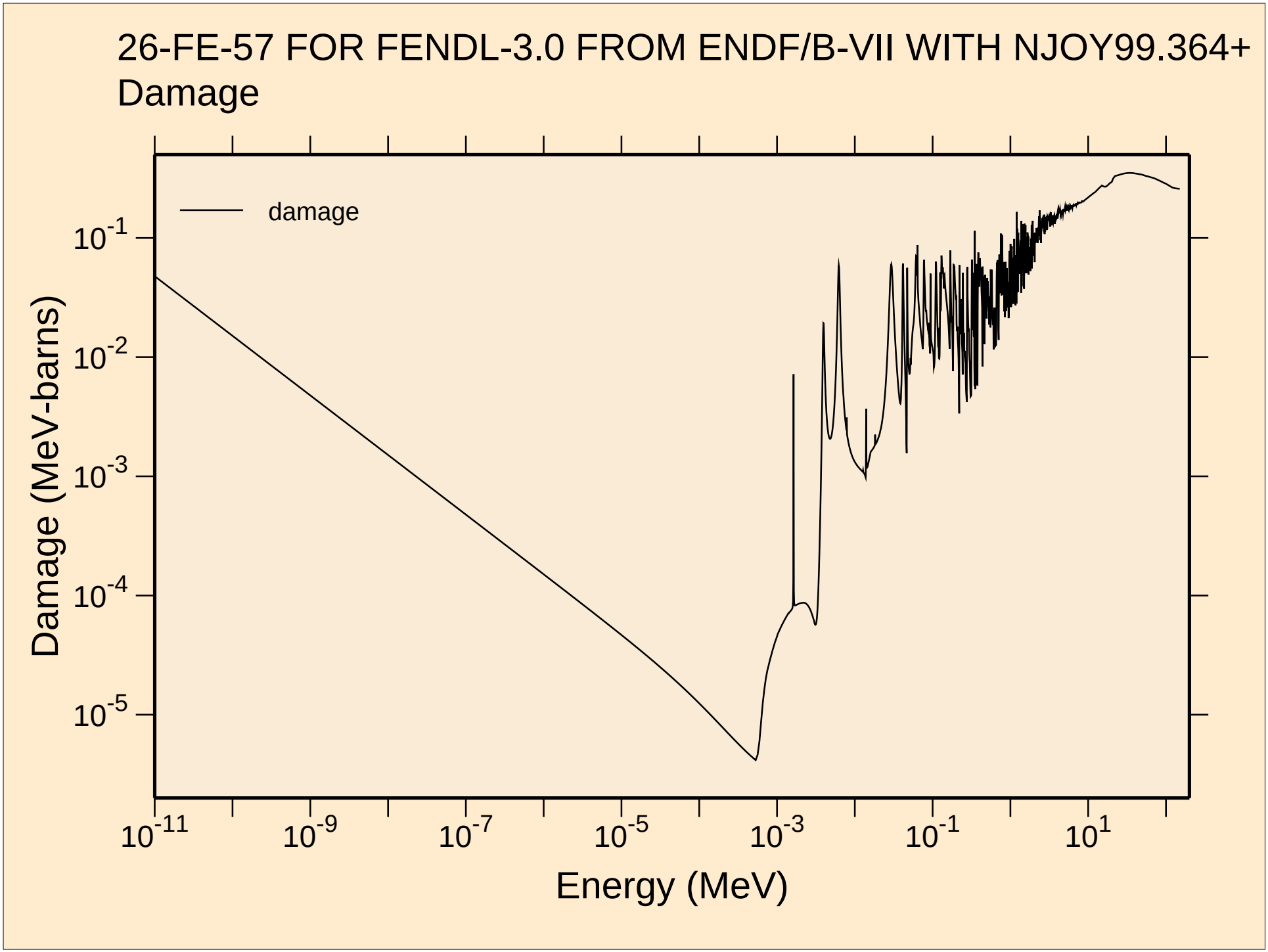

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^1
10^0
10^-1
10^-2
10^-3
10^-2
Energy (MeV)

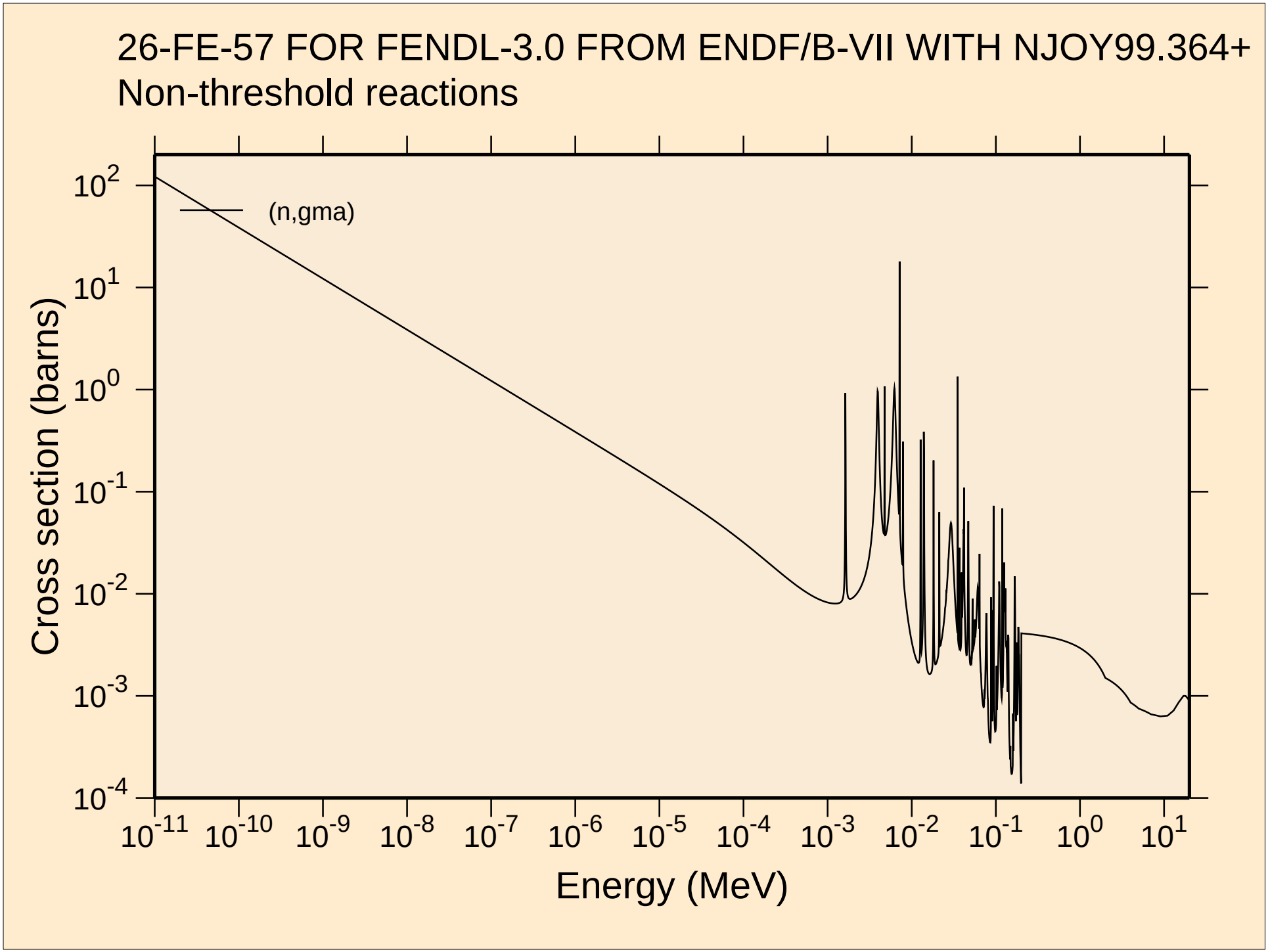

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^1
10^0
10^-1
10^-2
10^-3
10^-2
10^-1
Energy (MeV)

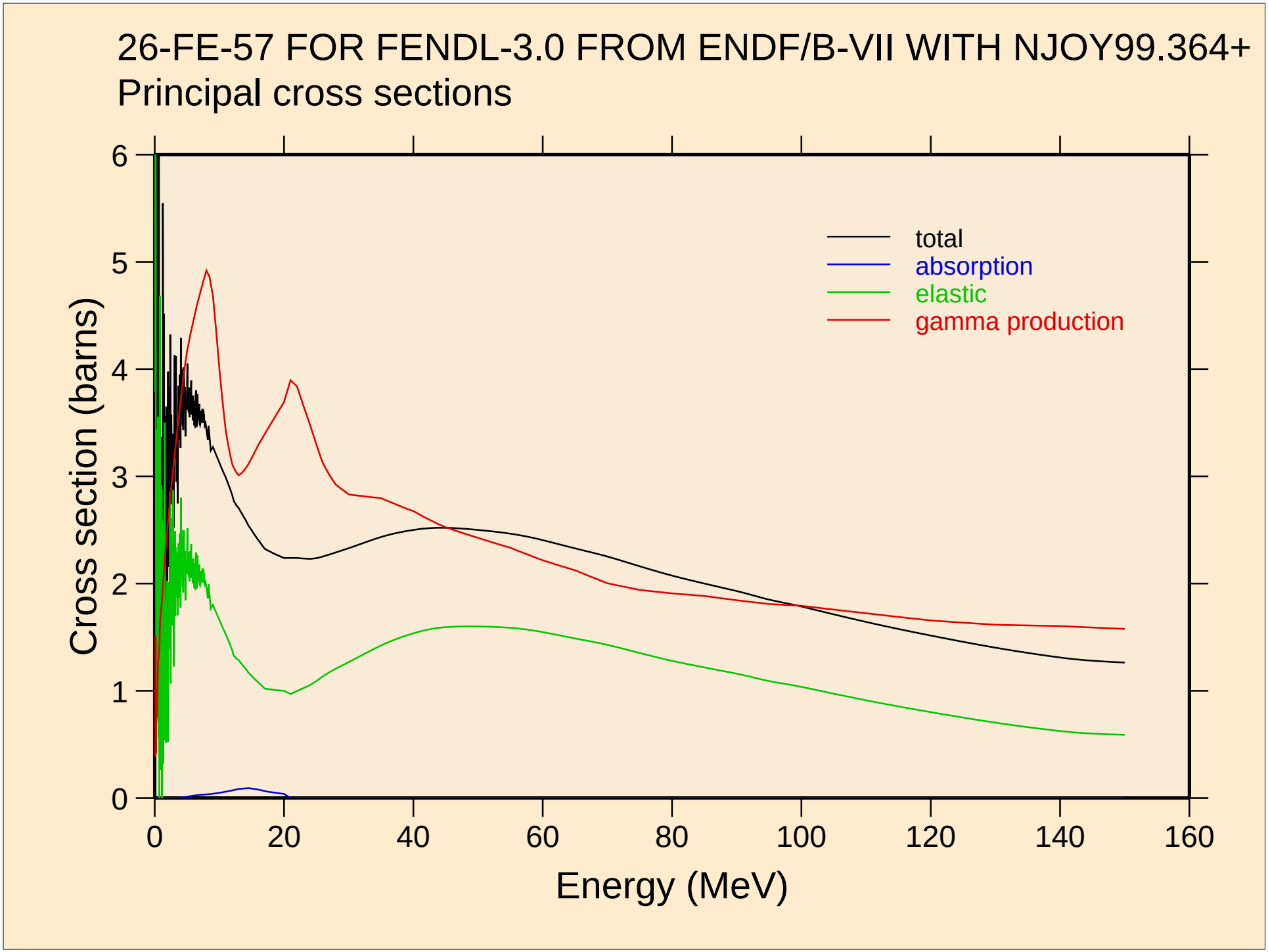

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-1
10^0
Energy (MeV)

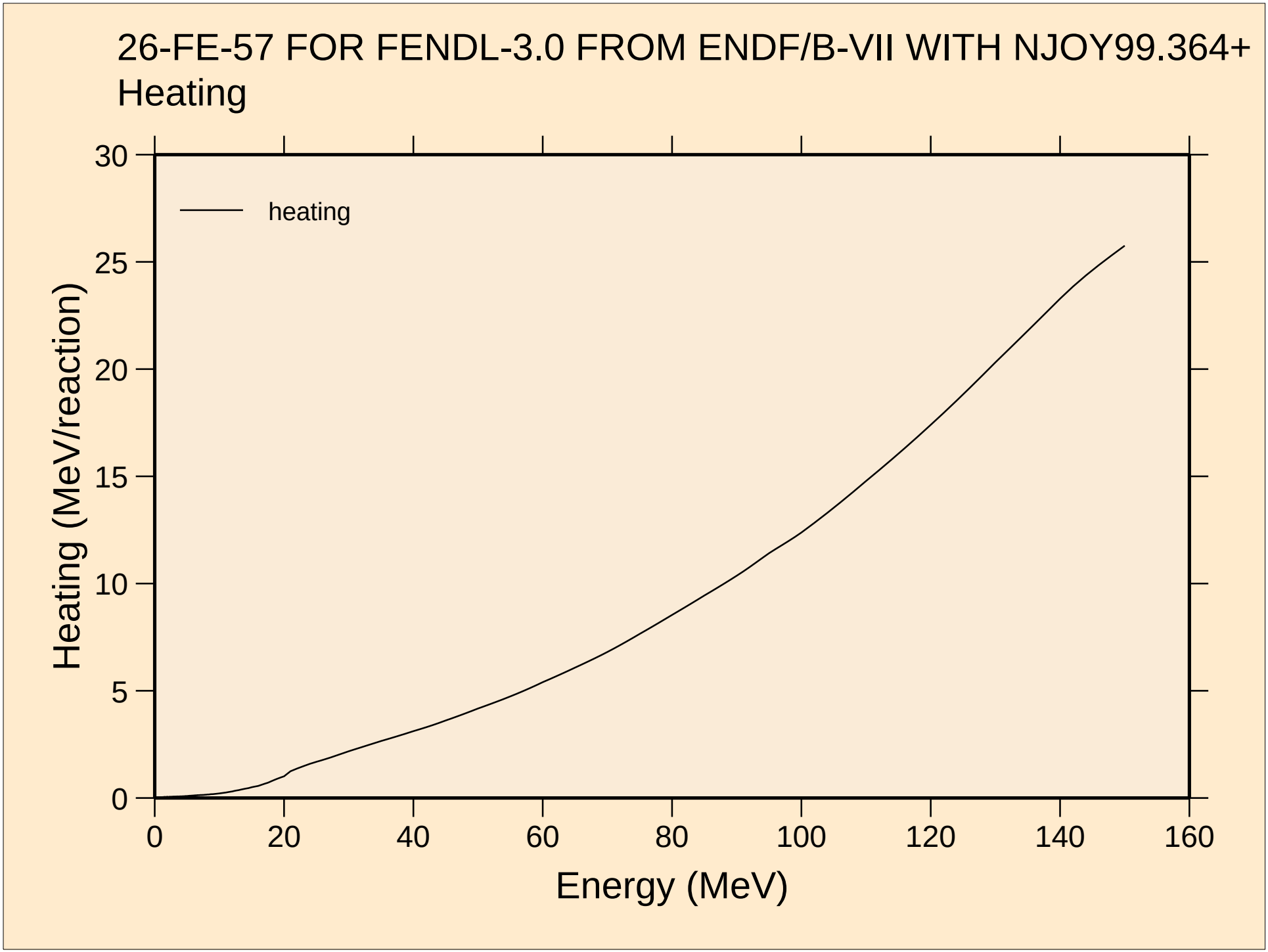

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
resonance absorption cross sections
capture
Cross section (barns)
10-3
100
101
Energy (MeV)

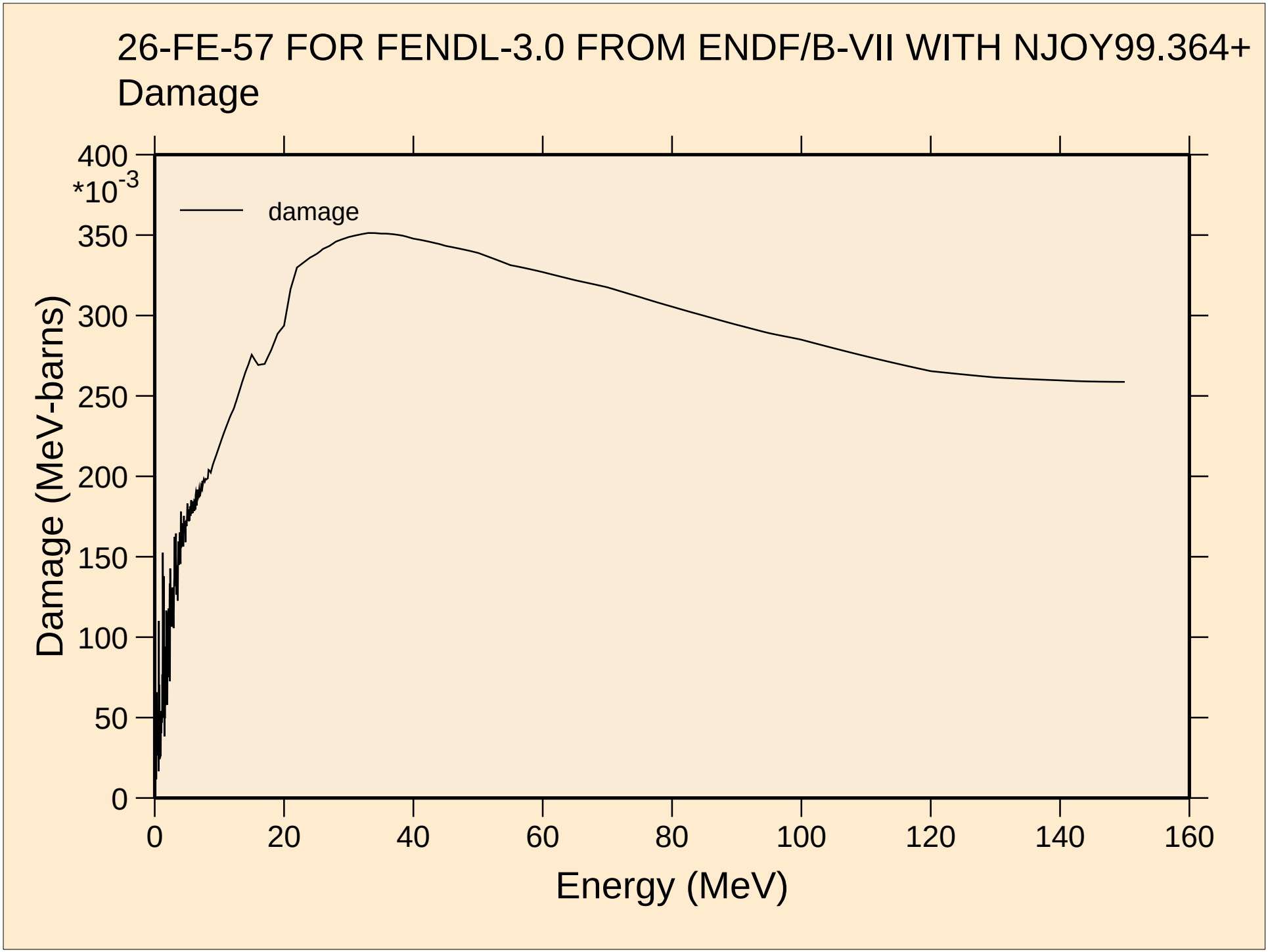

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Heating
heating
Heating (MeV/reaction)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

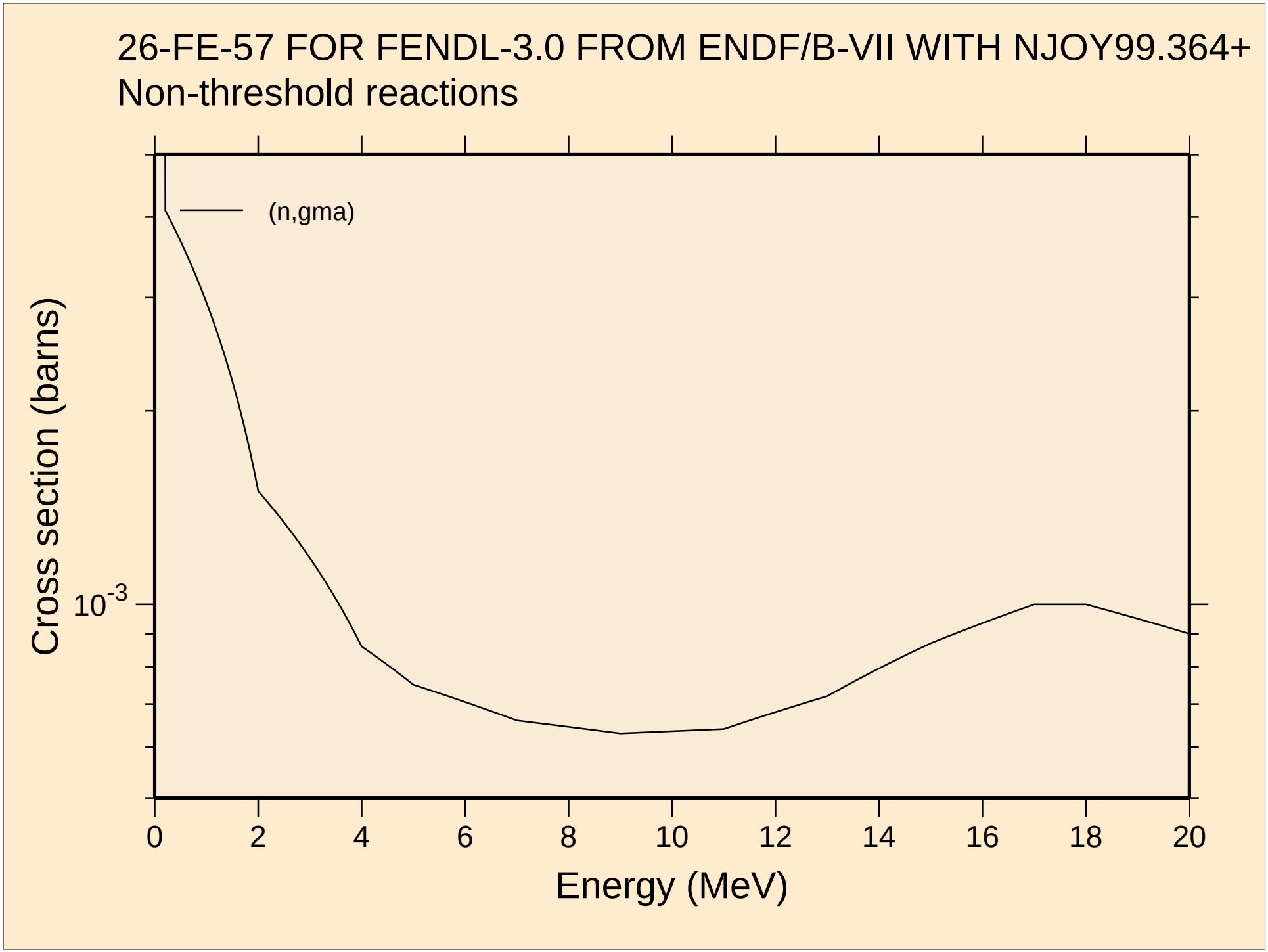

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Damage
damage
Damage (MeV-barns)
10-1
10-2
10-3
10-4
10-5
10-11
10-9
10-7
10-5
10-3
10-1
101
Energy (MeV)

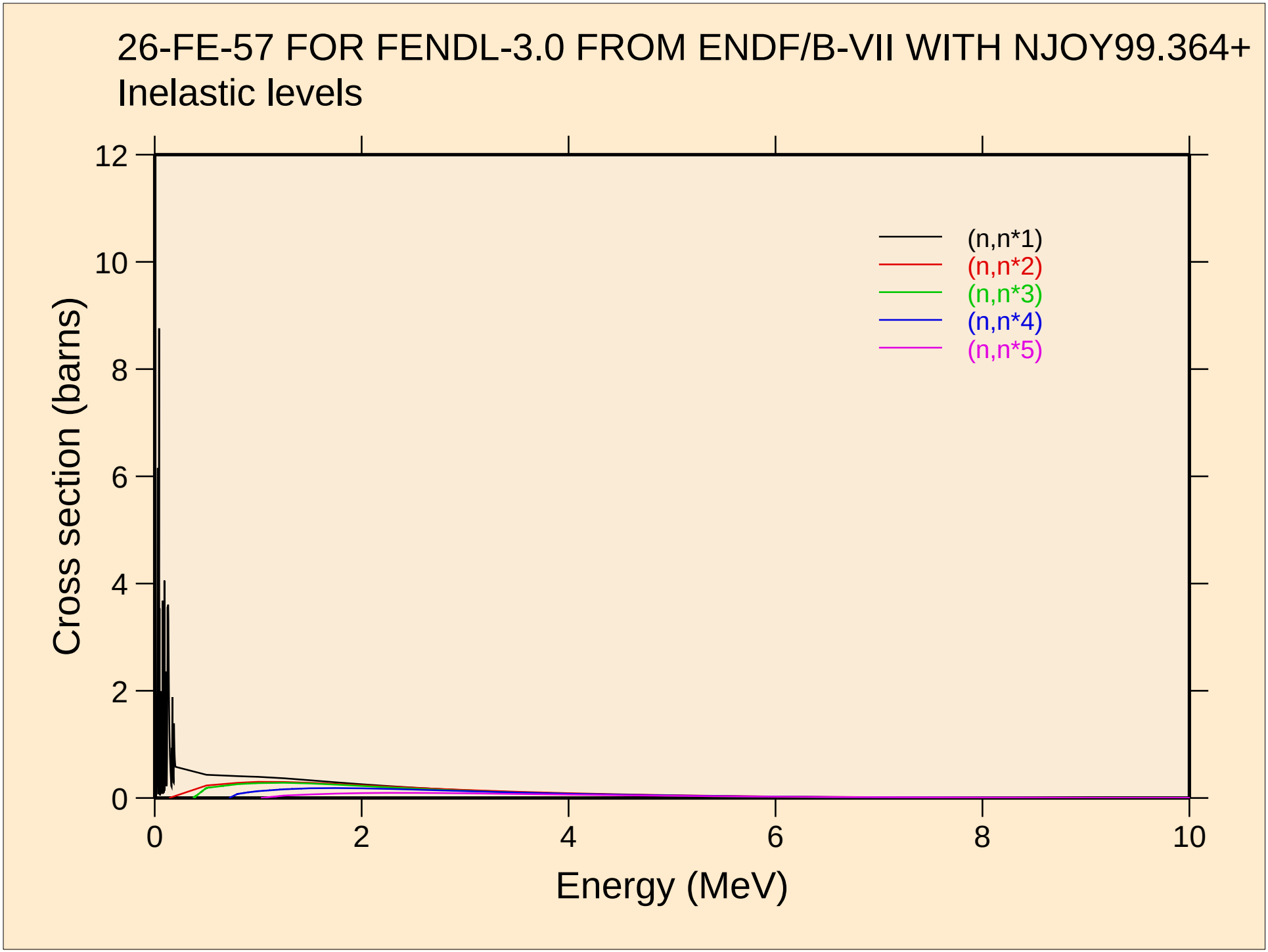

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Non-threshold reactions
(n,gma)
Cross section (barns)
Energy (MeV)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-10
10^-9
10^-8
10^-7
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1

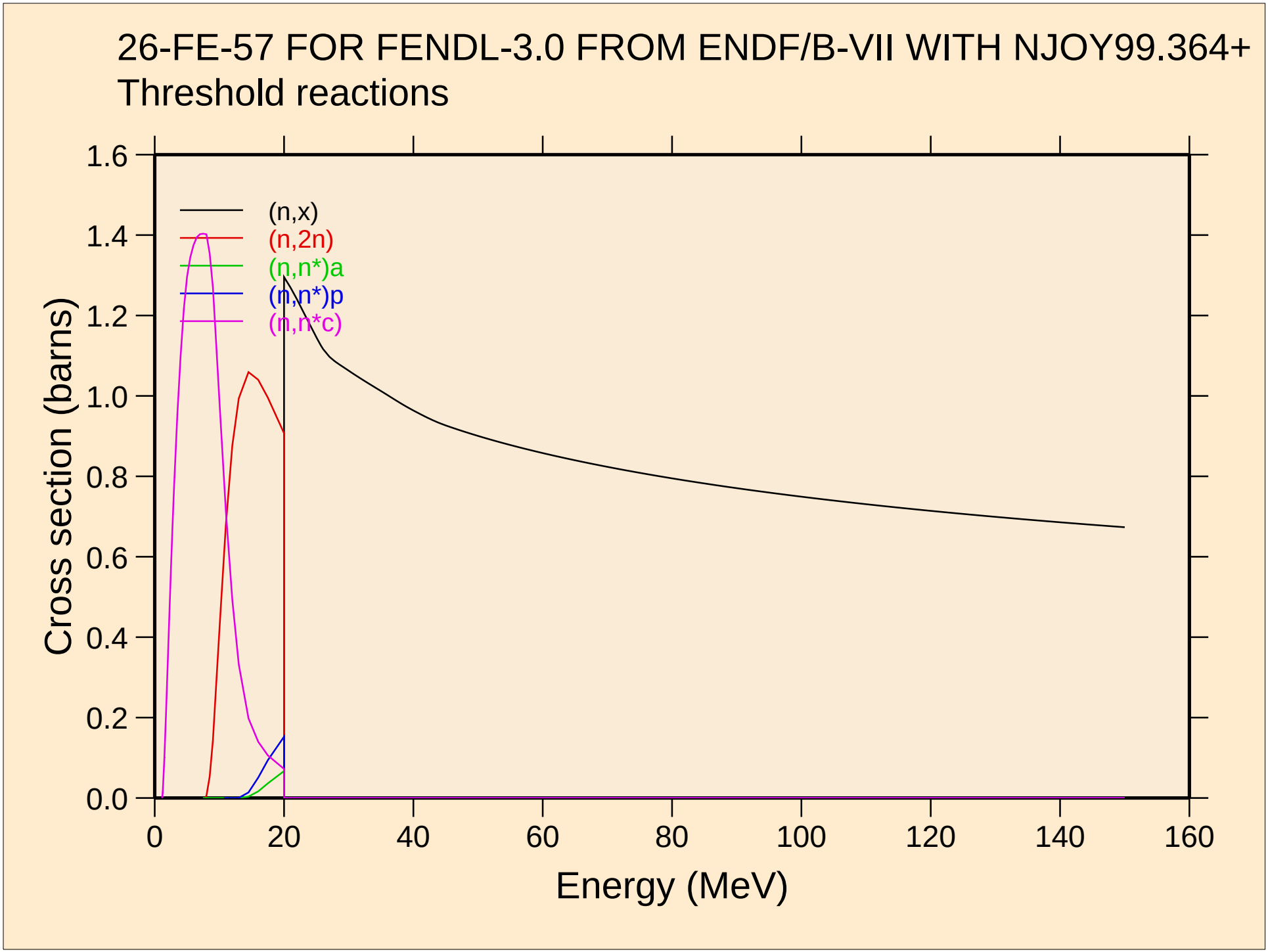

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Principal cross sections
Cross section (barns)
Energy (MeV)
0
1
2
3
4
5
6
0
20
40
60
80
100
120
140
160
total
absorption
elastic
gamma production

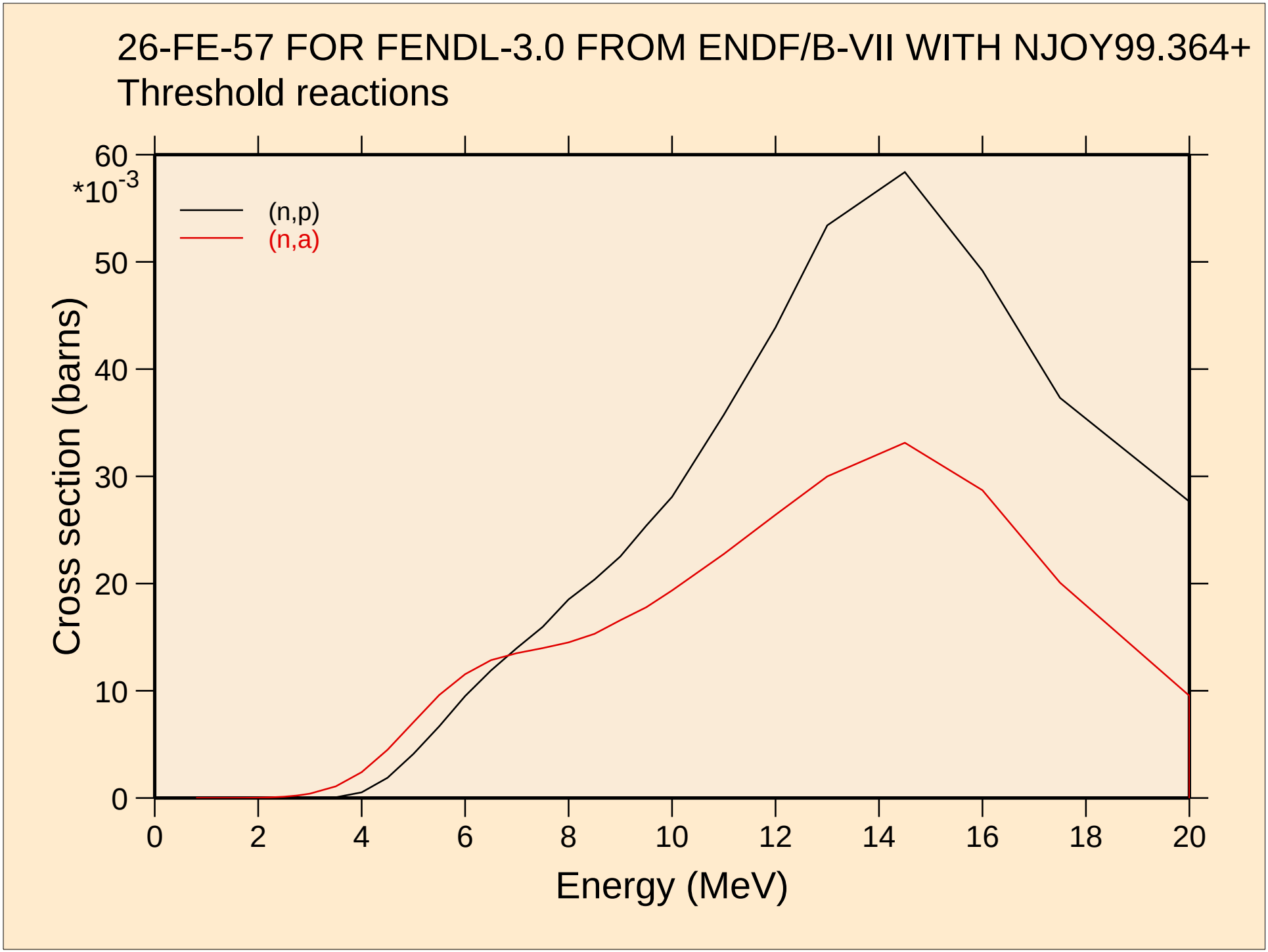

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
5
10
15
20
25
30
0
20
40
60
80
100
120
140
160

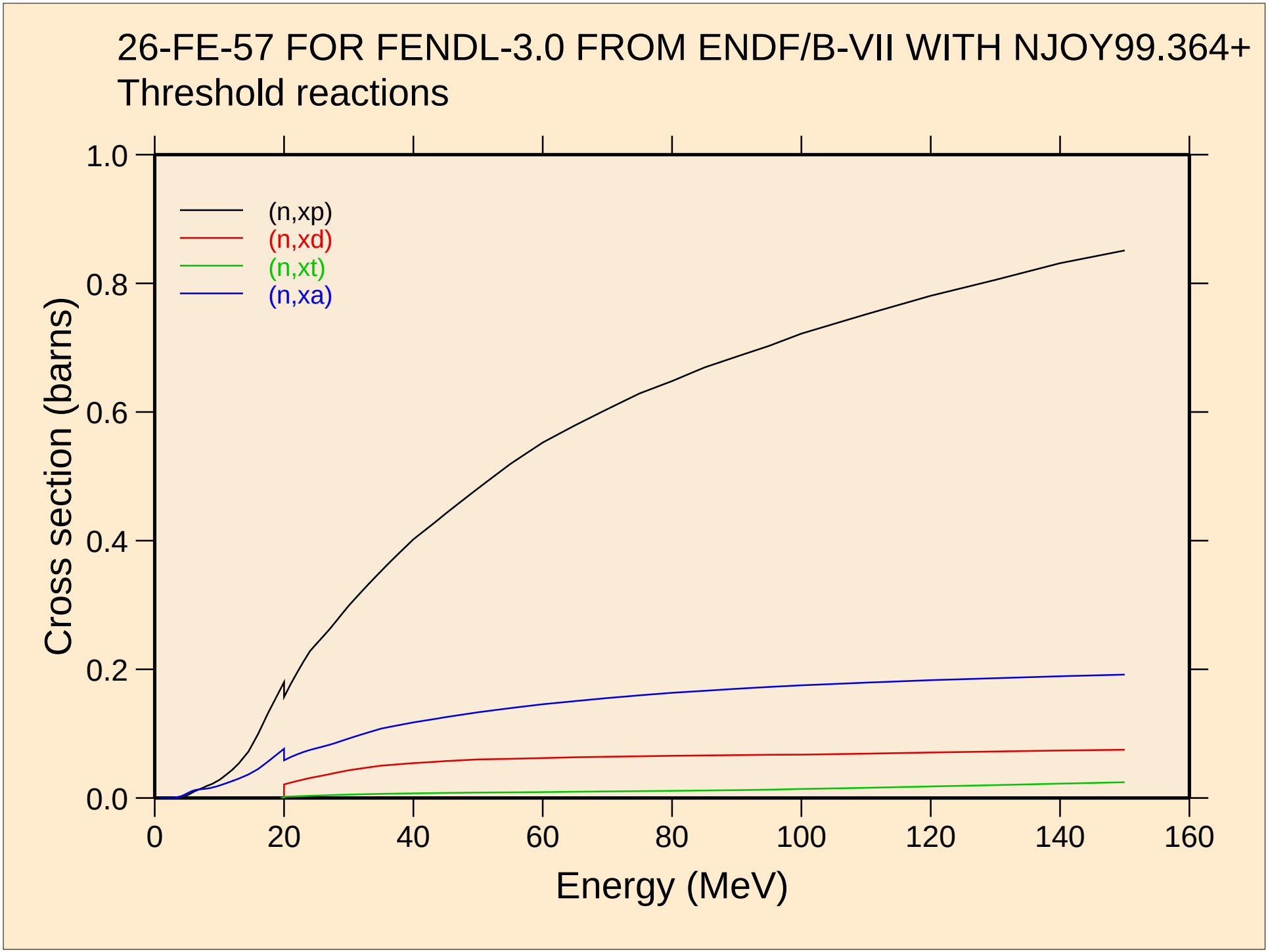

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Damage
damage
*10-3
Damage (MeV-barns)
Energy (MeV)
0
50
100
150
200
250
300
350
400
0
20
40
60
80
100
120
140
160

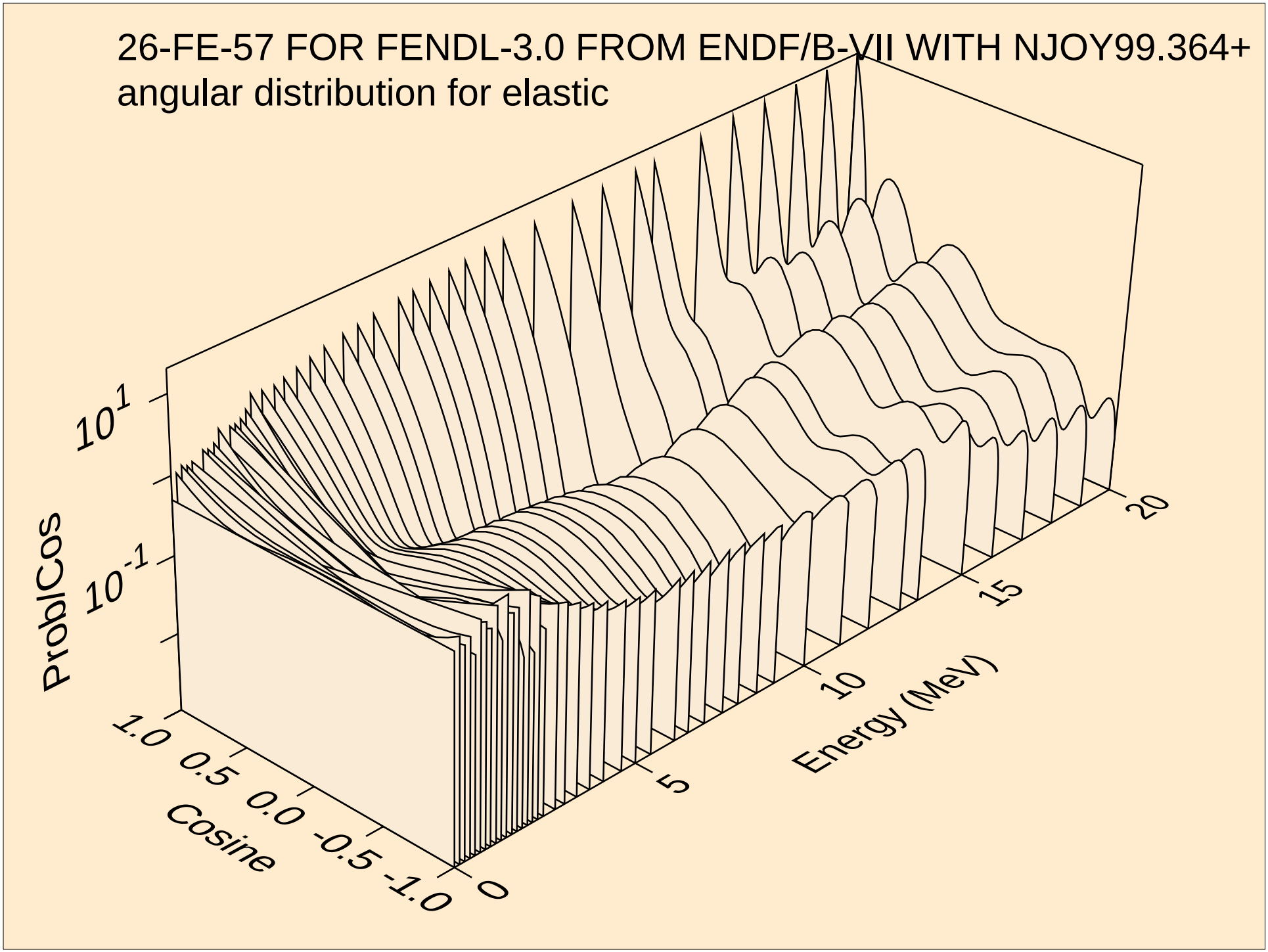

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Non-threshold reactions
(n,gma)
Cross section (barns)
10-3
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

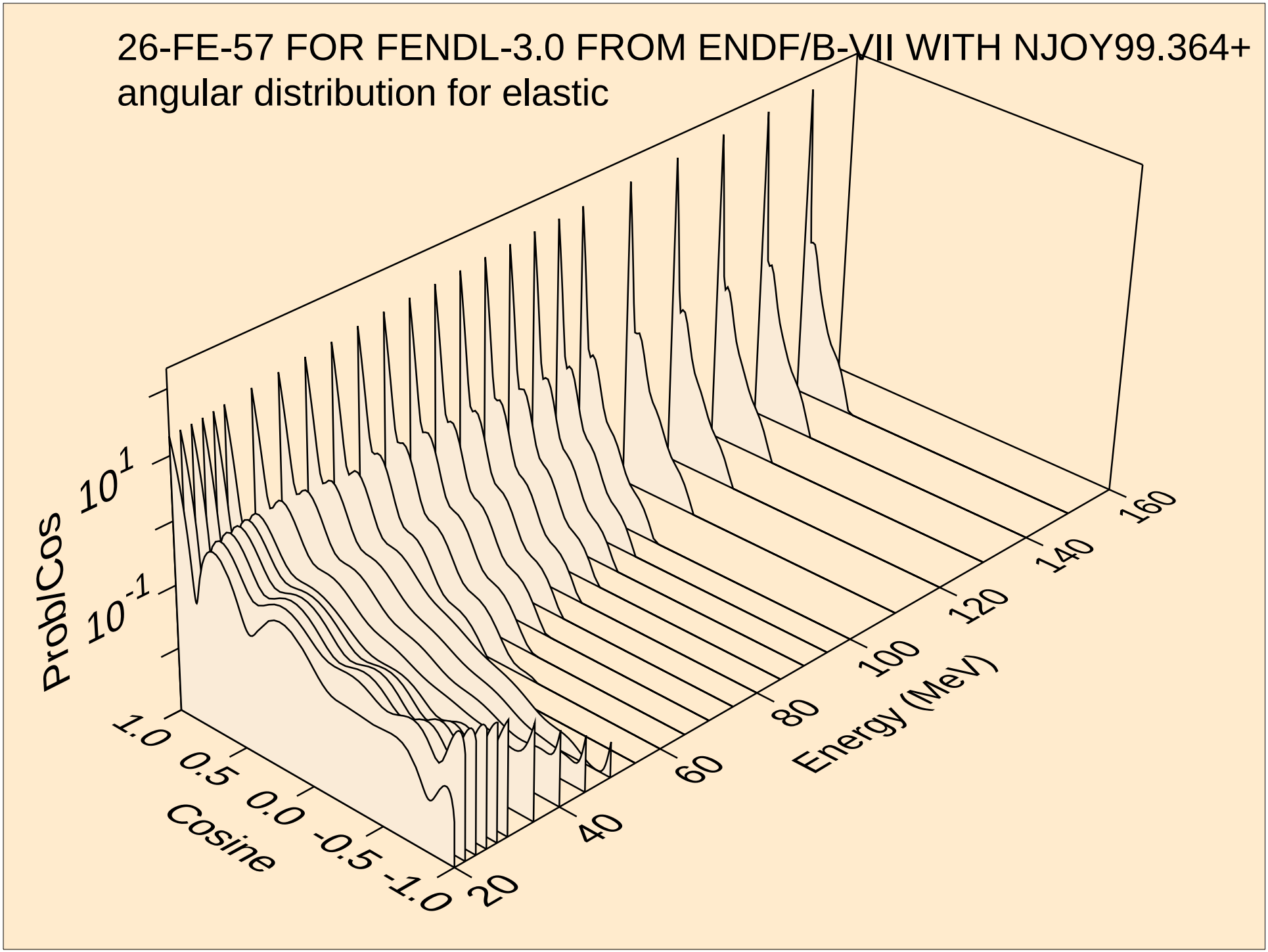

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Inelastic levels
Cross section (barns)
Energy (MeV)
0
2
4
6
8
10
12
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

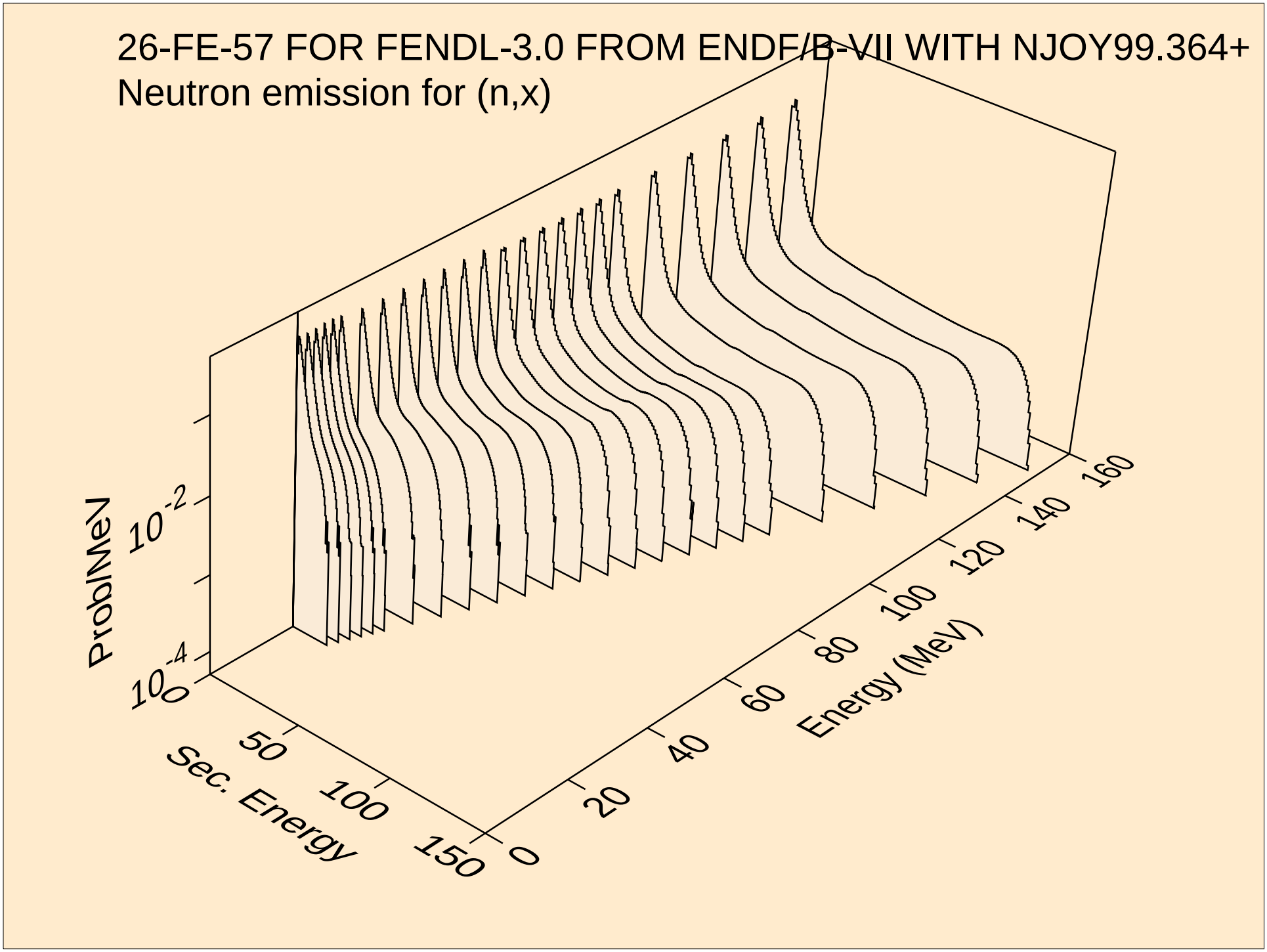

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
(n,x)
(n,2n)
(n,n*)a
(n,n*)p
(n,n*c)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
20
40
60
80
100
120
140
160

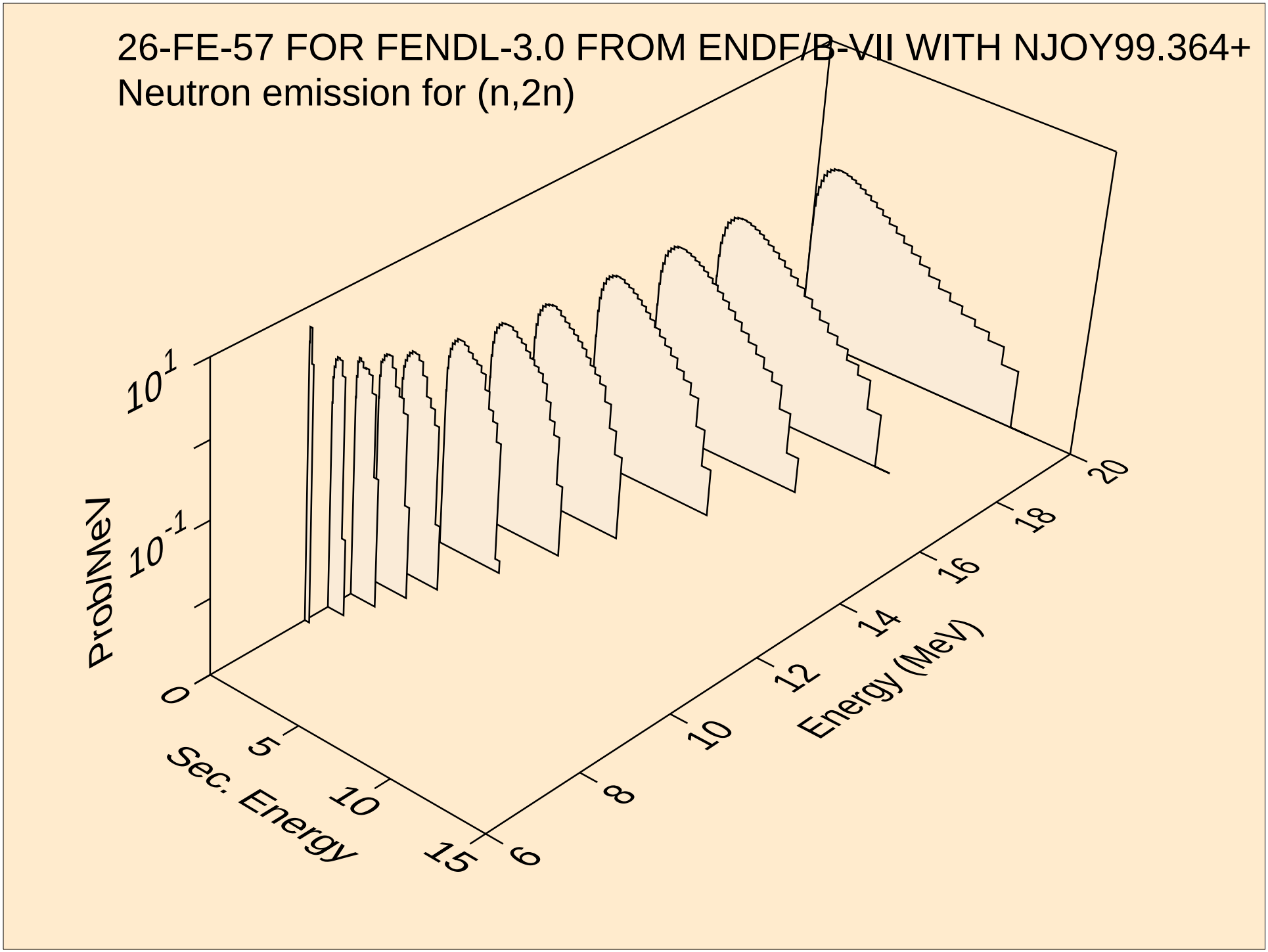

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
*10-3
(n,p)
(n,a)
Cross section (barns)
Energy (MeV)
0
10
20
30
40
50
60
0
2
4
6
8
10
12
14
16
18
20

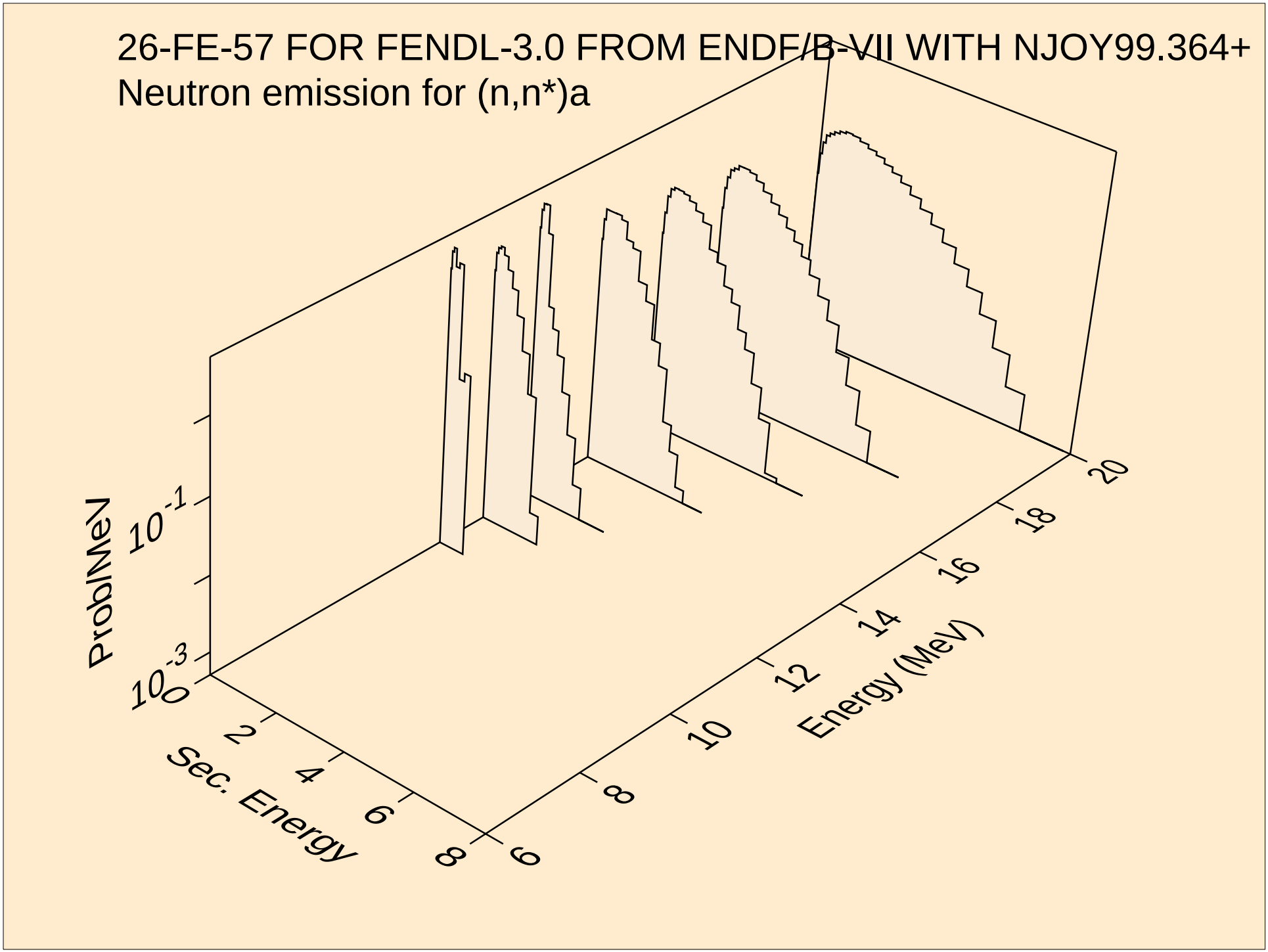

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Threshold reactions
(n,xp)
(n,xd)
(n,xt)
(n,xa)
Cross section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
140
160
Energy (MeV)

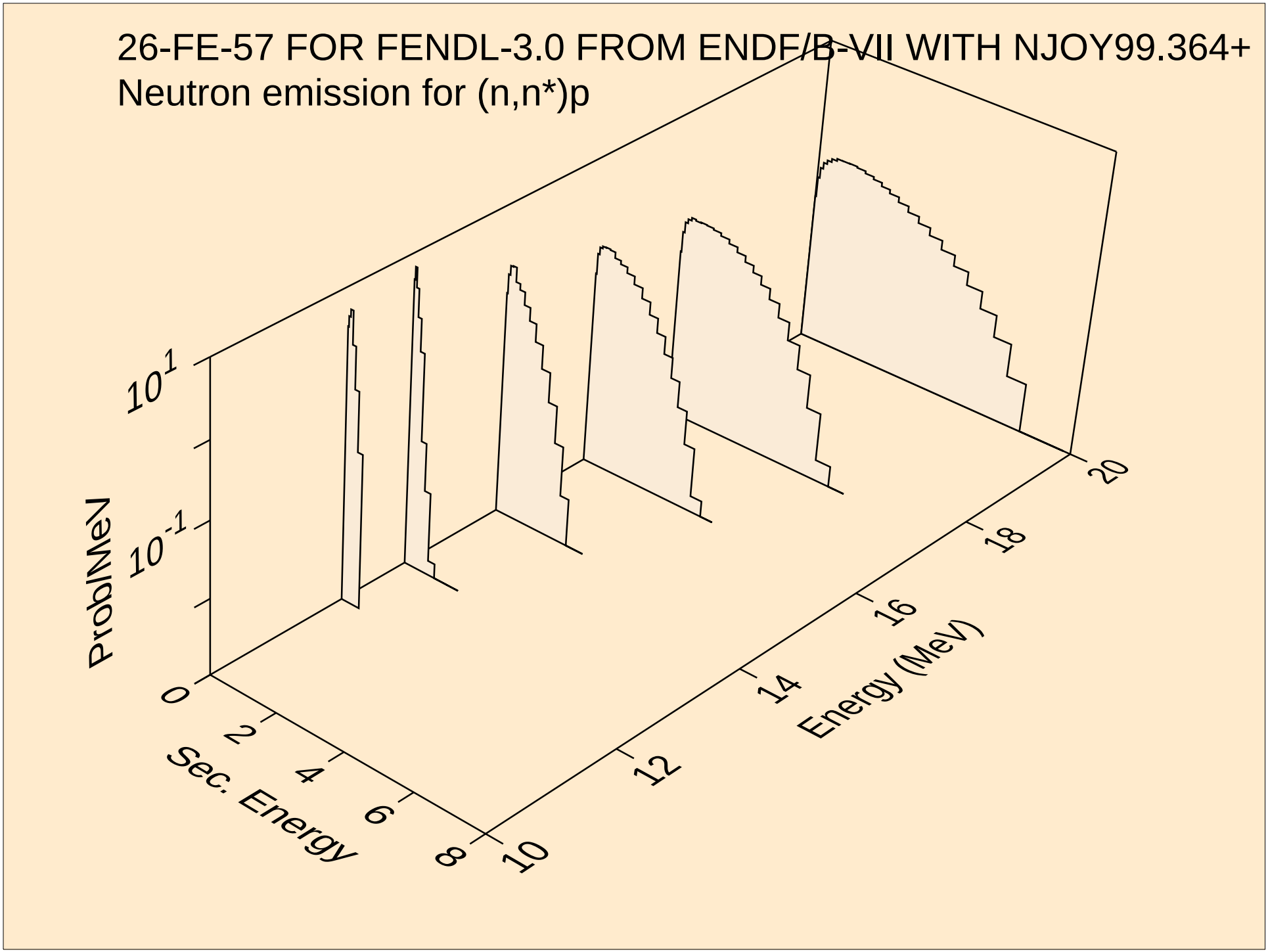

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

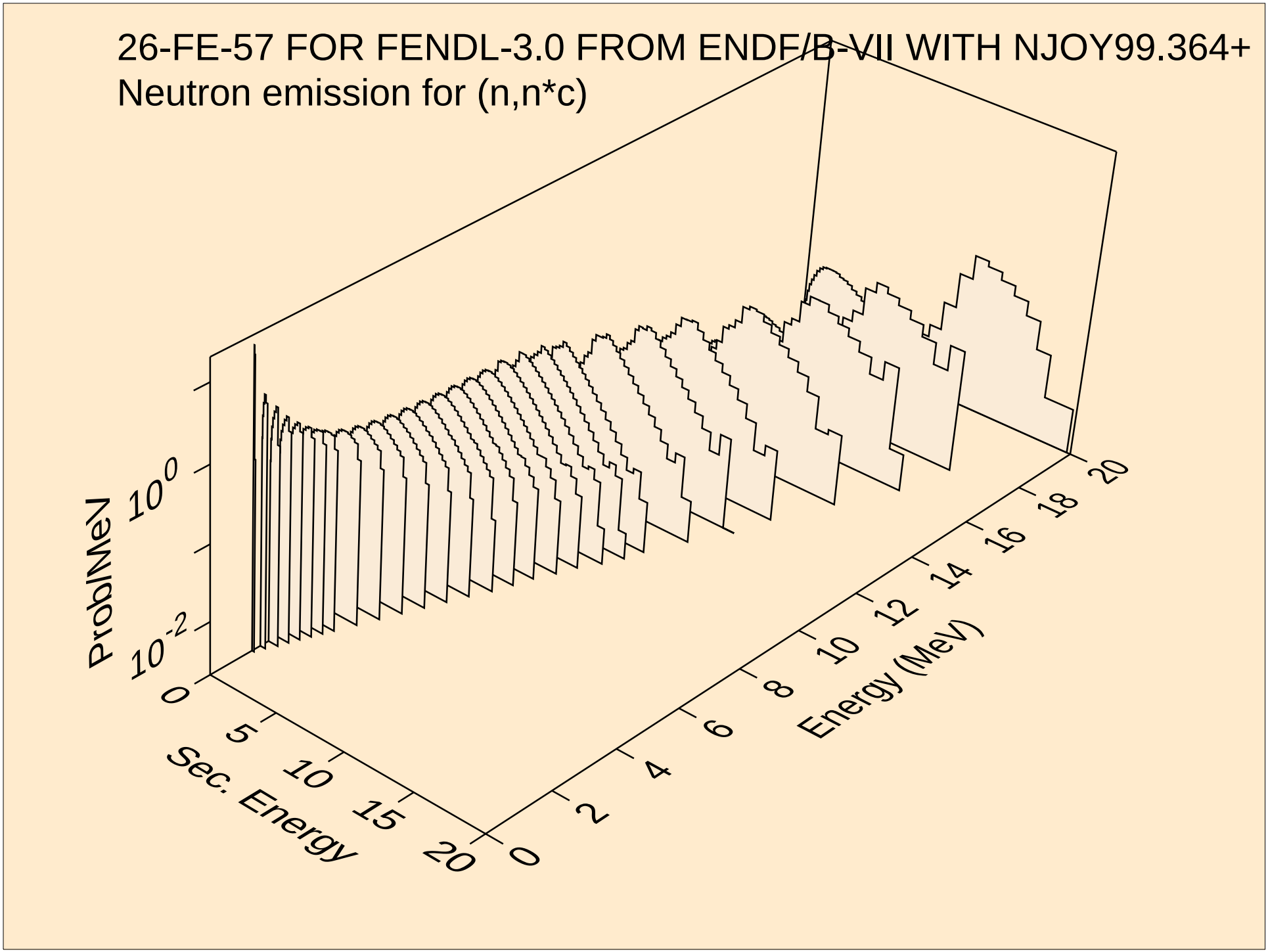

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

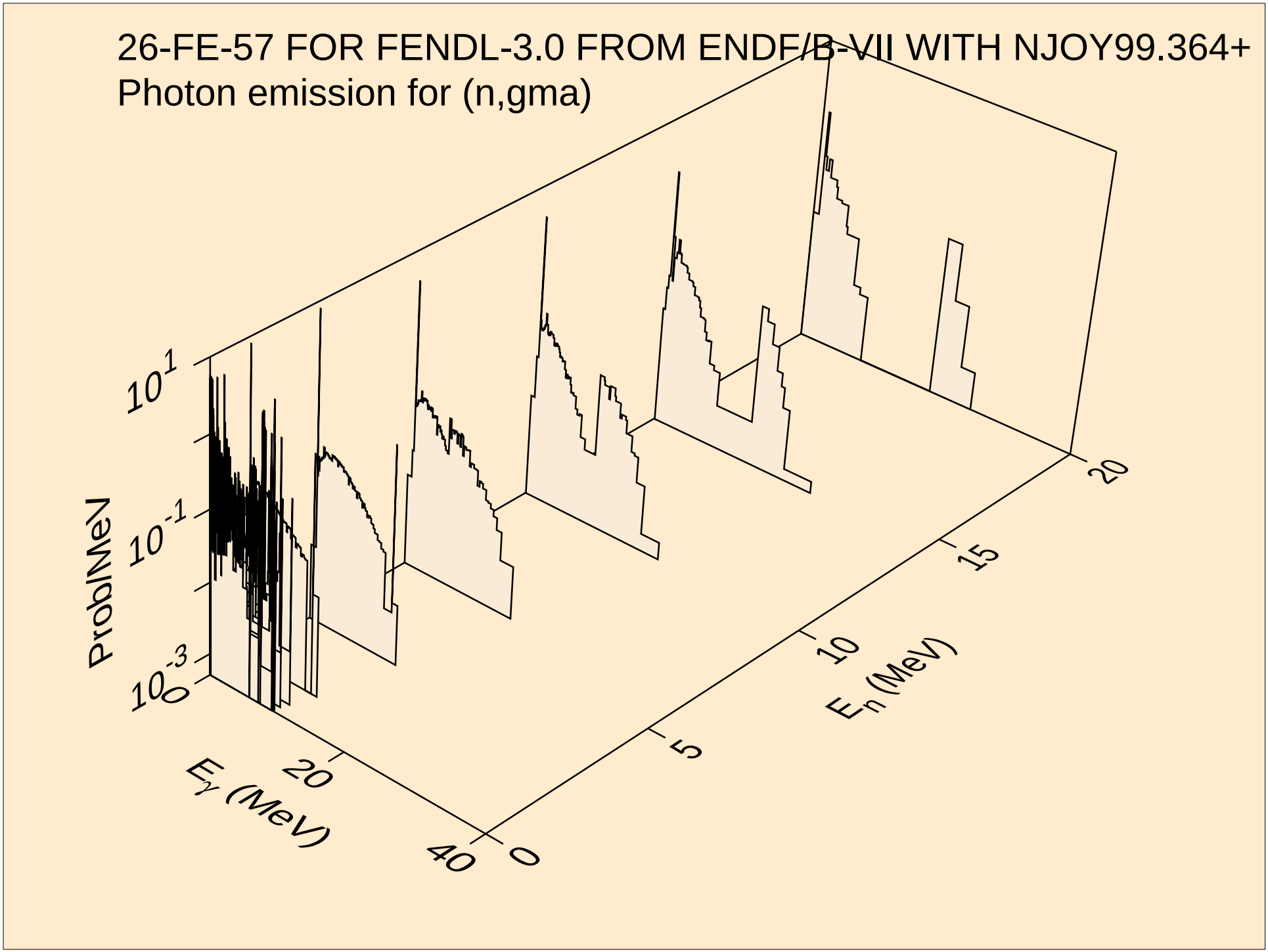

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Neutron emission for (n,x)
Prob/MeV
10-2
10-4
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)

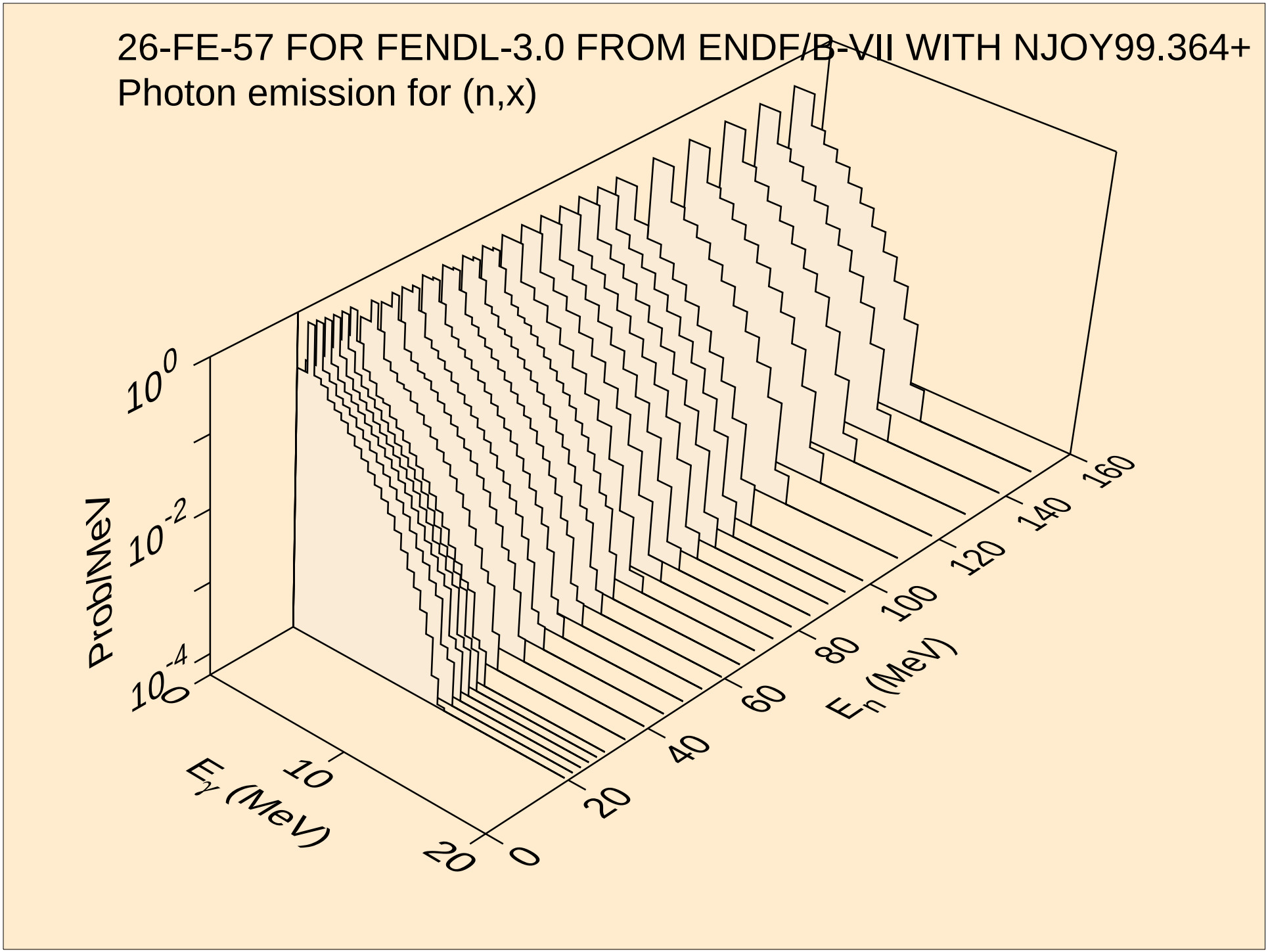

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Neutron emission for (n,2n)
Prob/MeV
10^1
10^-1
0
5
10
15
Sec. Energy
6
8
10
12
14
16
18
20
Energy (MeV)

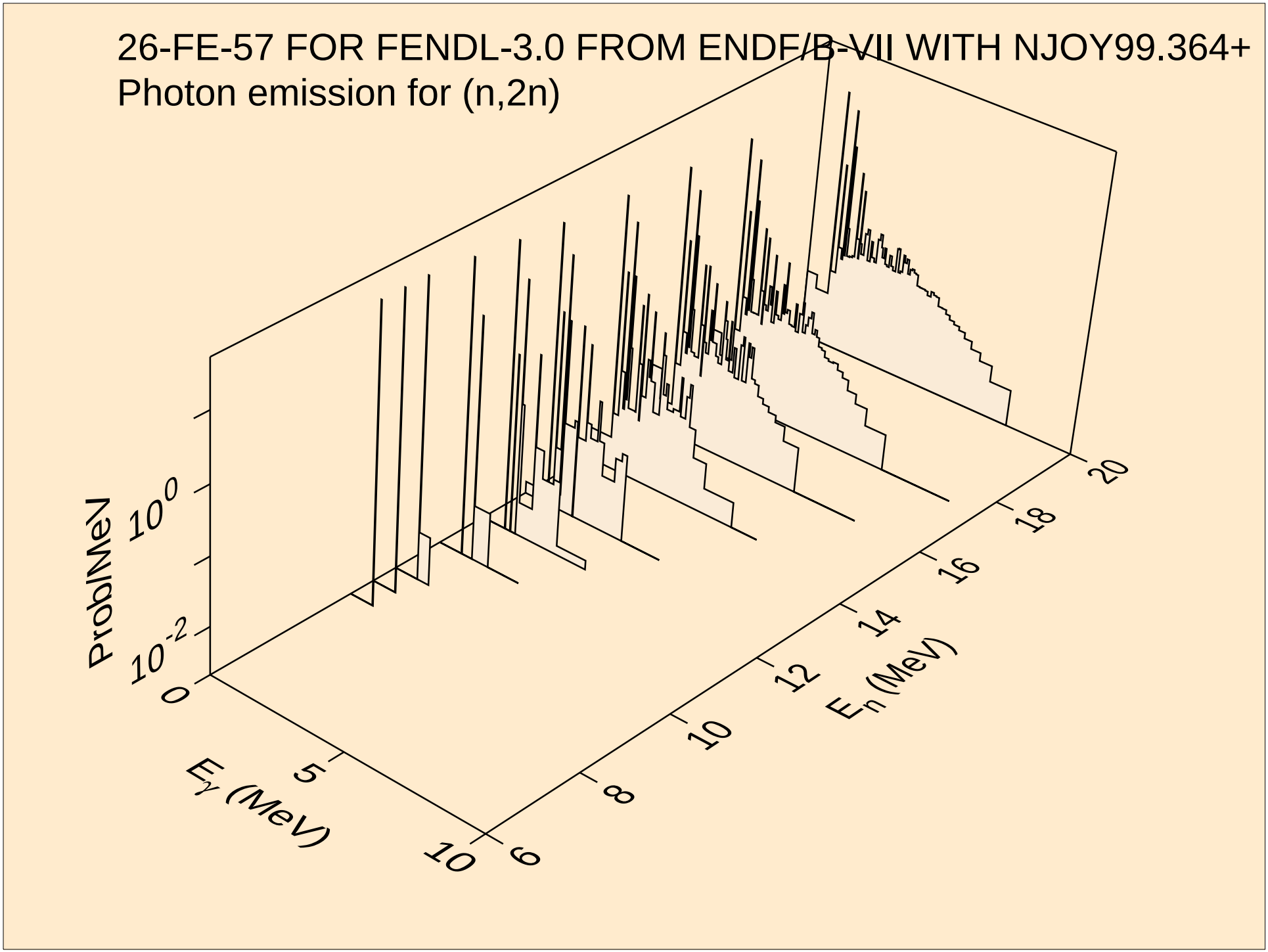

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Neutron emission for (n,n*)a
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
6
8
10
12
14
16
18
20
Energy (MeV)

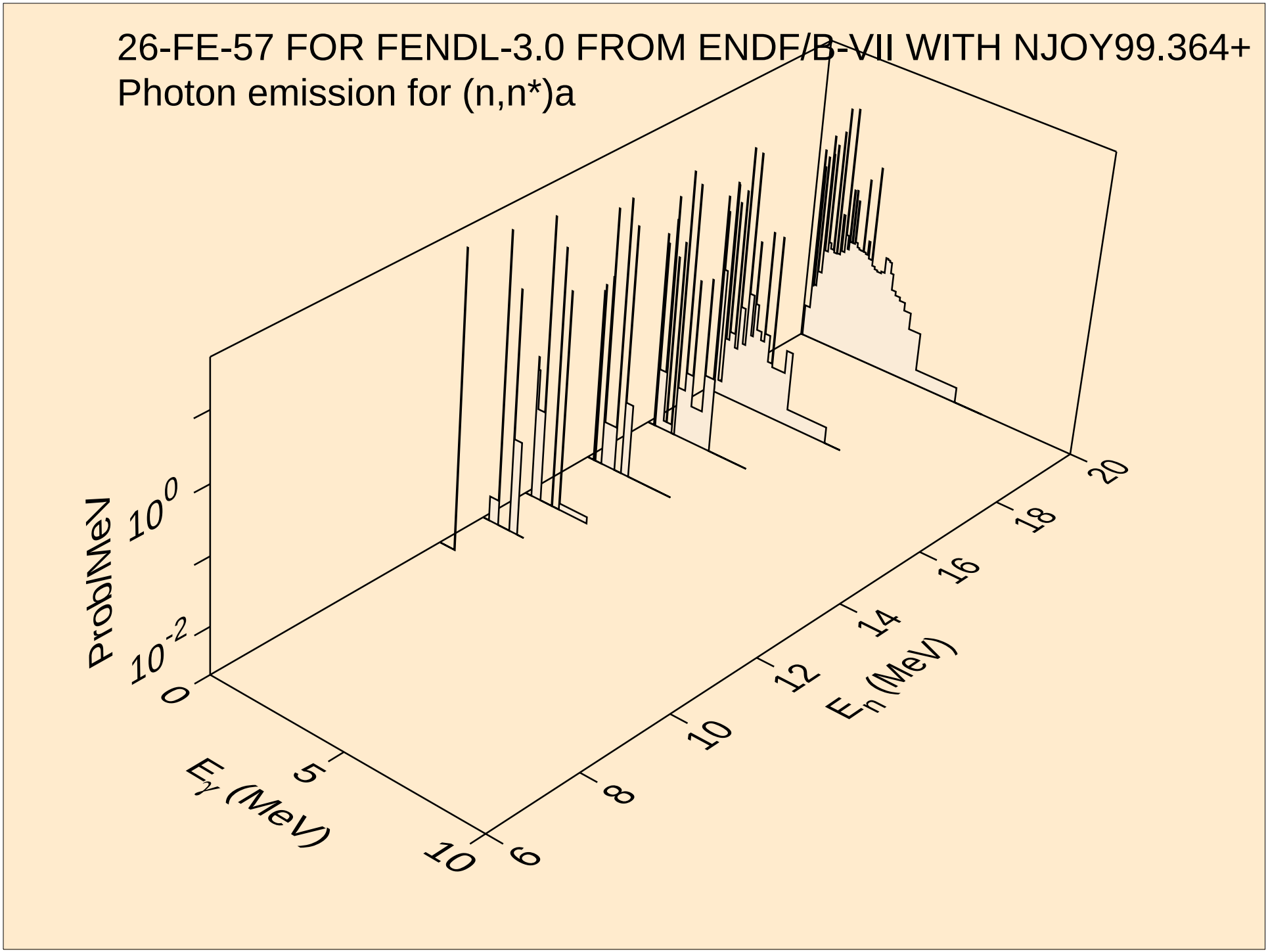

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Neutron emission for (n,n*)p
Prob/MeV
10^1
10^-1
0
2
4
6
8
10
Sec. Energy
12
14
16
18
20
Energy (MeV)

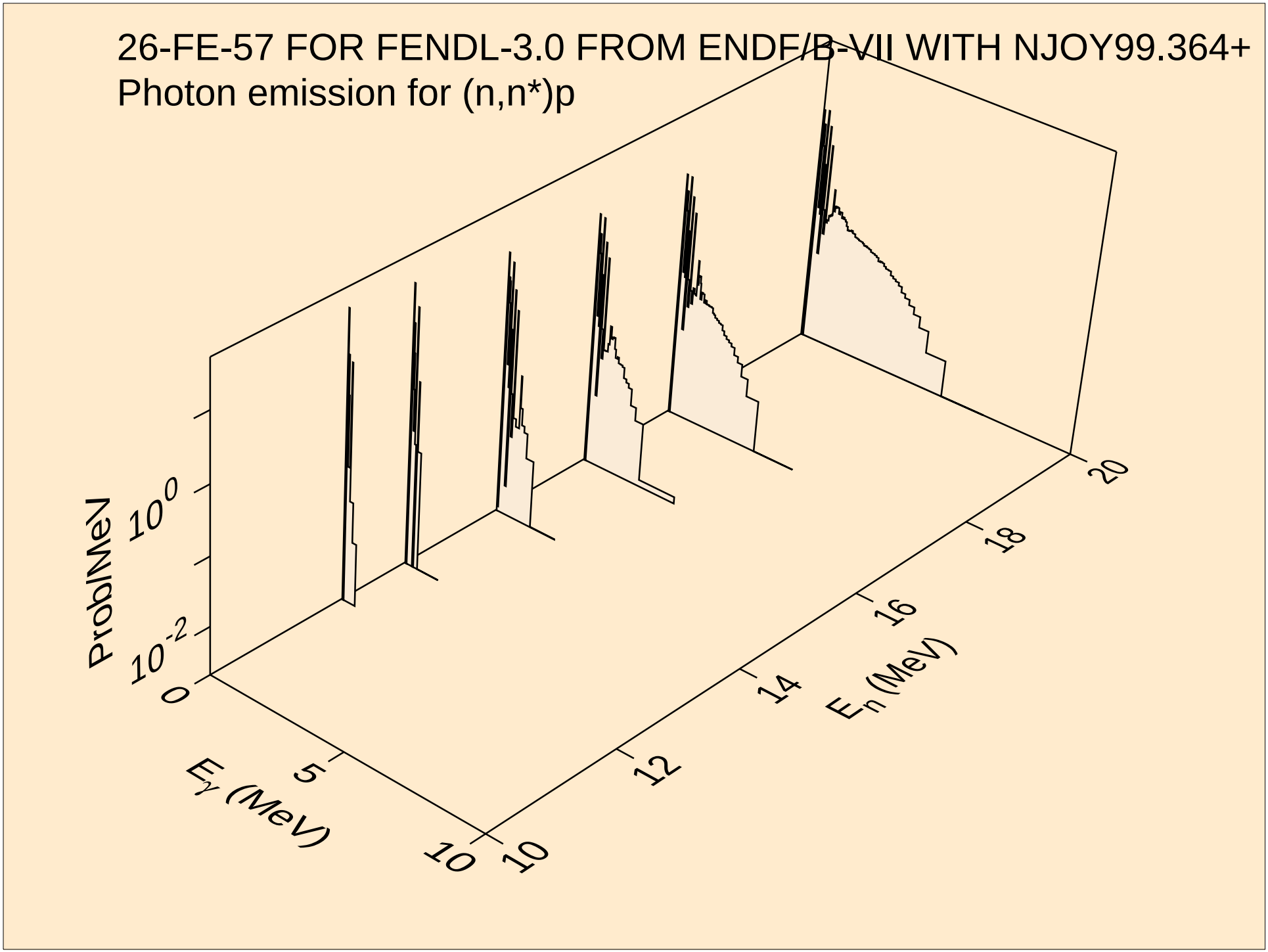

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Neutron emission for (n,n*c)
Prob/MeV
10^0
10^-2
0
5
10
15
20
Sec. Energy
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

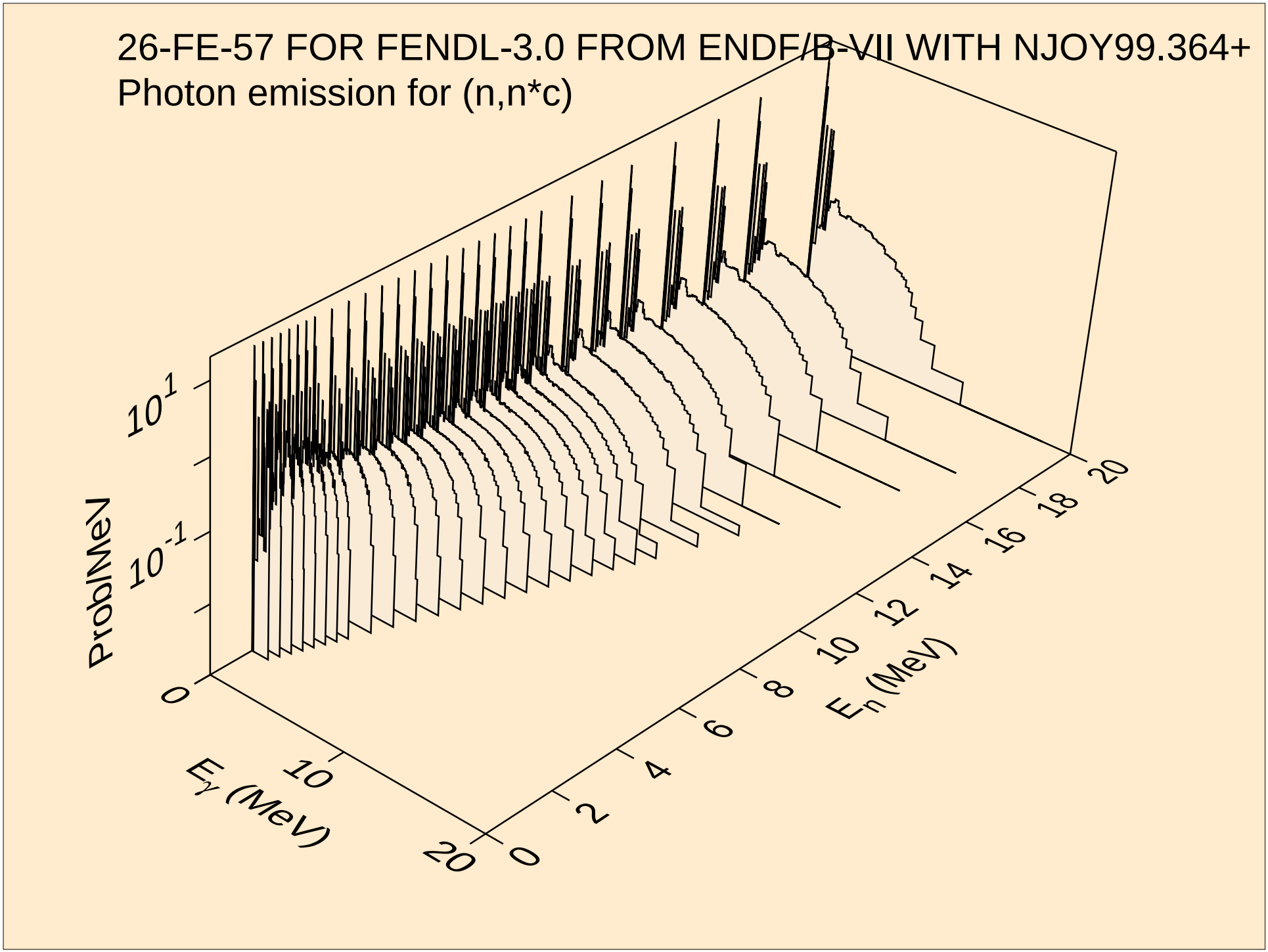

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,gma)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
20
40
E_γ (MeV)
0
5
10
15
20
E_n (MeV)

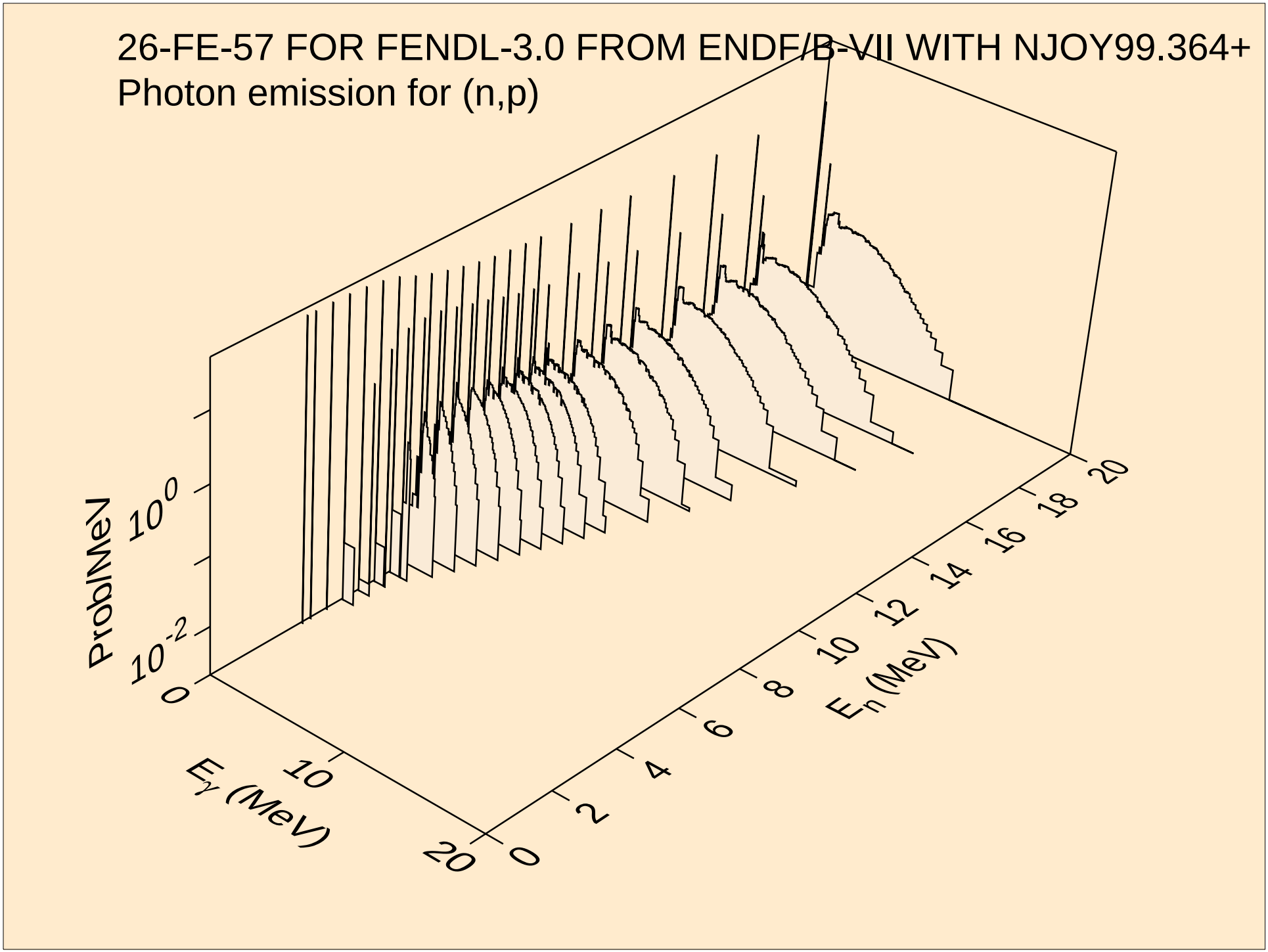

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
E_γ (MeV)
0
10
20
E_n (MeV)
0
20
40
60
80
100
120
140
160

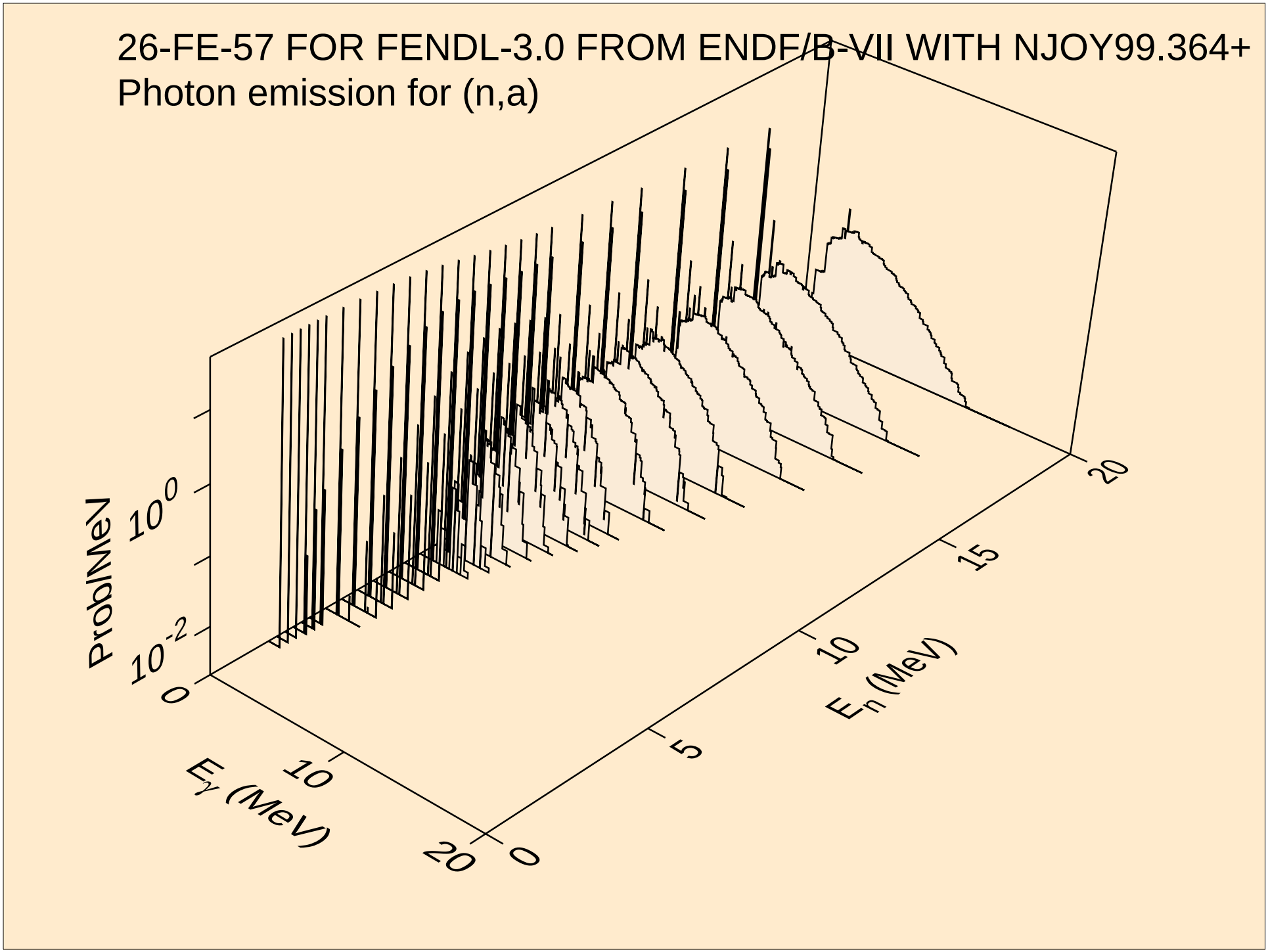

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,2n)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
5
10
6
8
10
12
14
16
18
20
E_n (MeV)

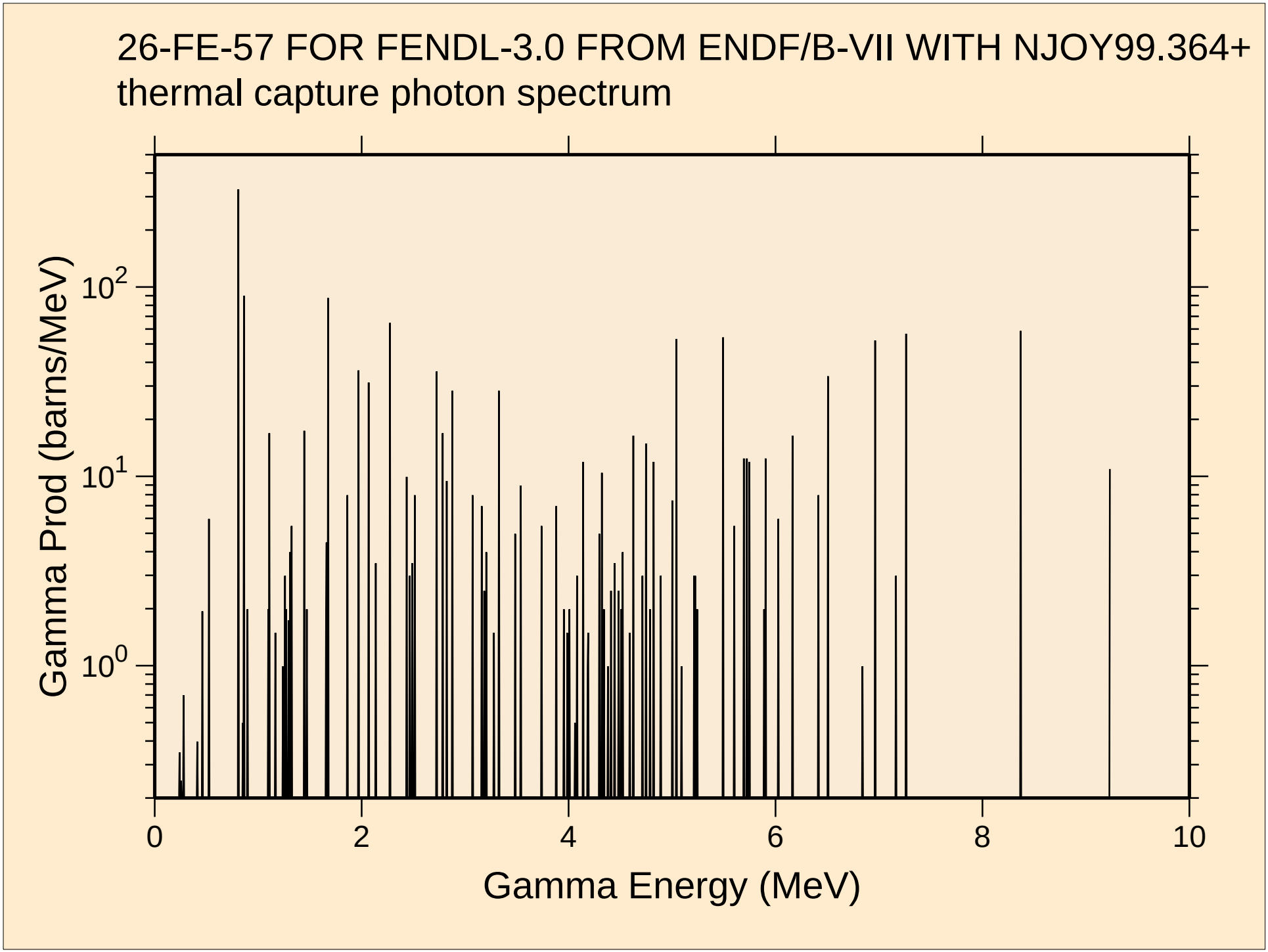

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,n*)a
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
6
8
10
12
14
16
18
20
E_n (MeV)

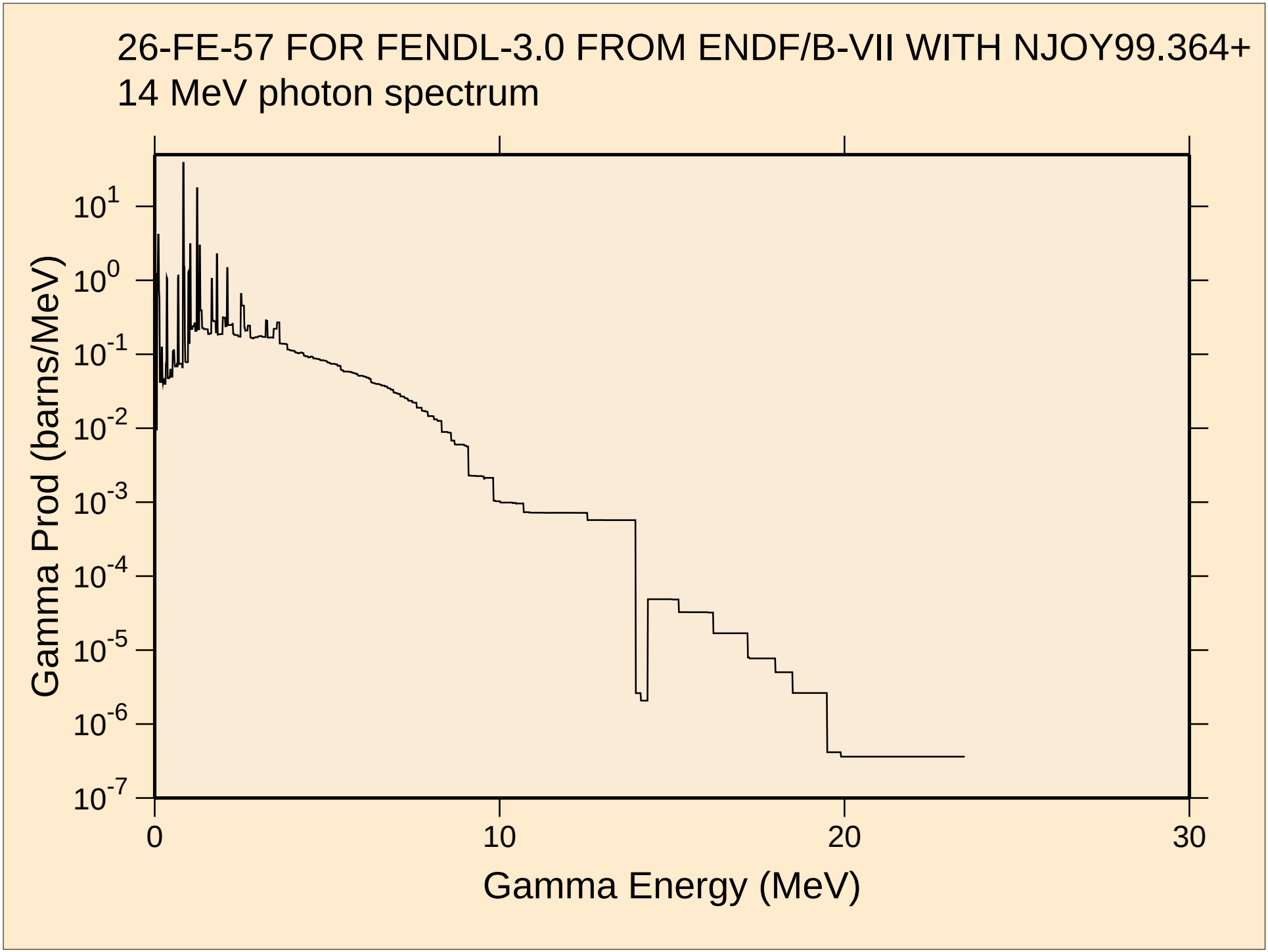

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,n*)p
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
5
10
10
12
14
16
18
20
E_n (MeV)

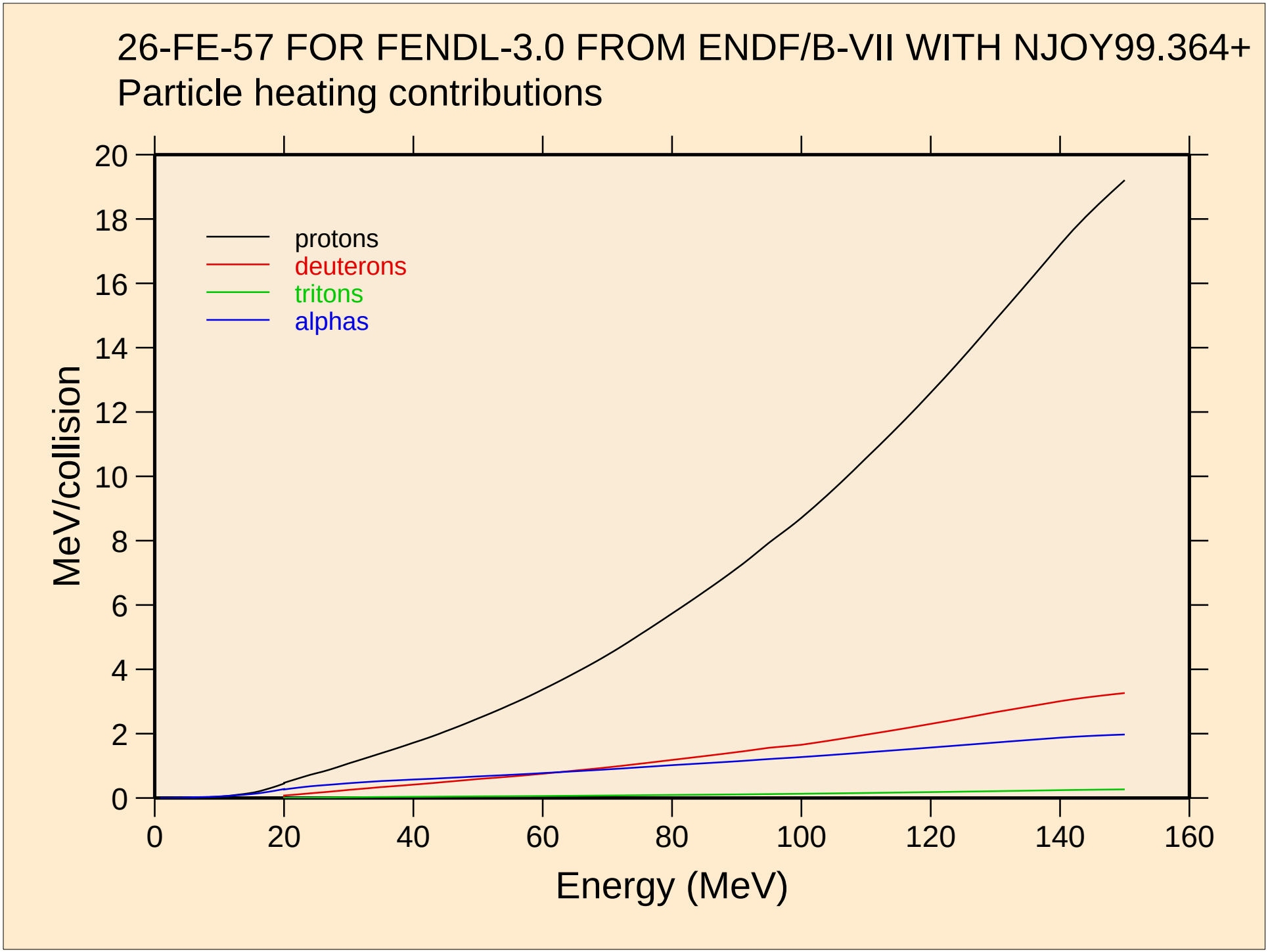

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,n*c)
Prob/MeV
10^{1}
10^{-1}
0
10
20
E_γ (MeV)
0
2
4
6
8
10
12
14
16
18
20
E_n (MeV)

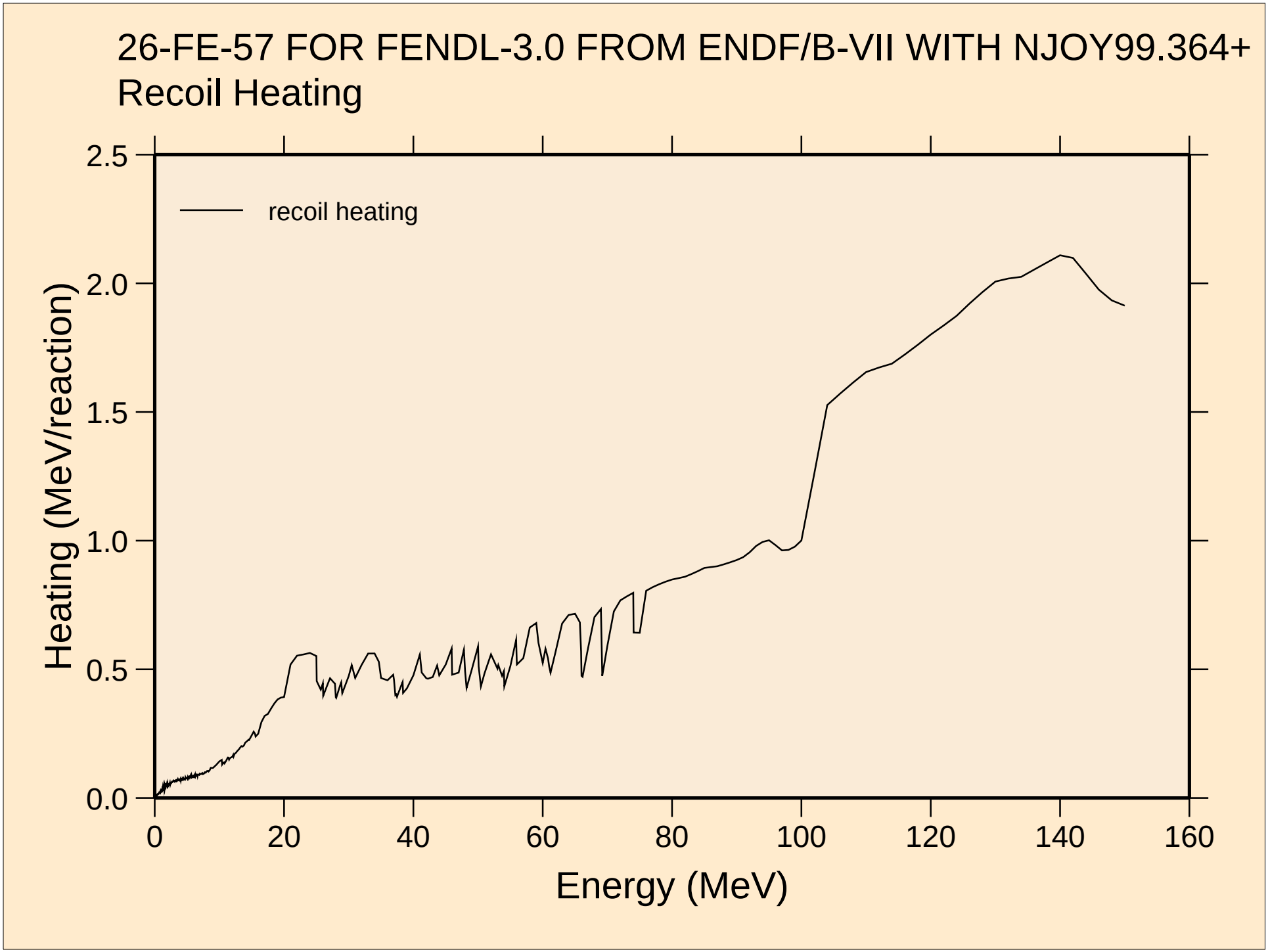

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,p)
Prob/MeV
10^{0}
10^{-2}
0
10
20
E_γ (MeV)
0
2
4
6
8
10
12
14
16
18
20
E_n (MeV)

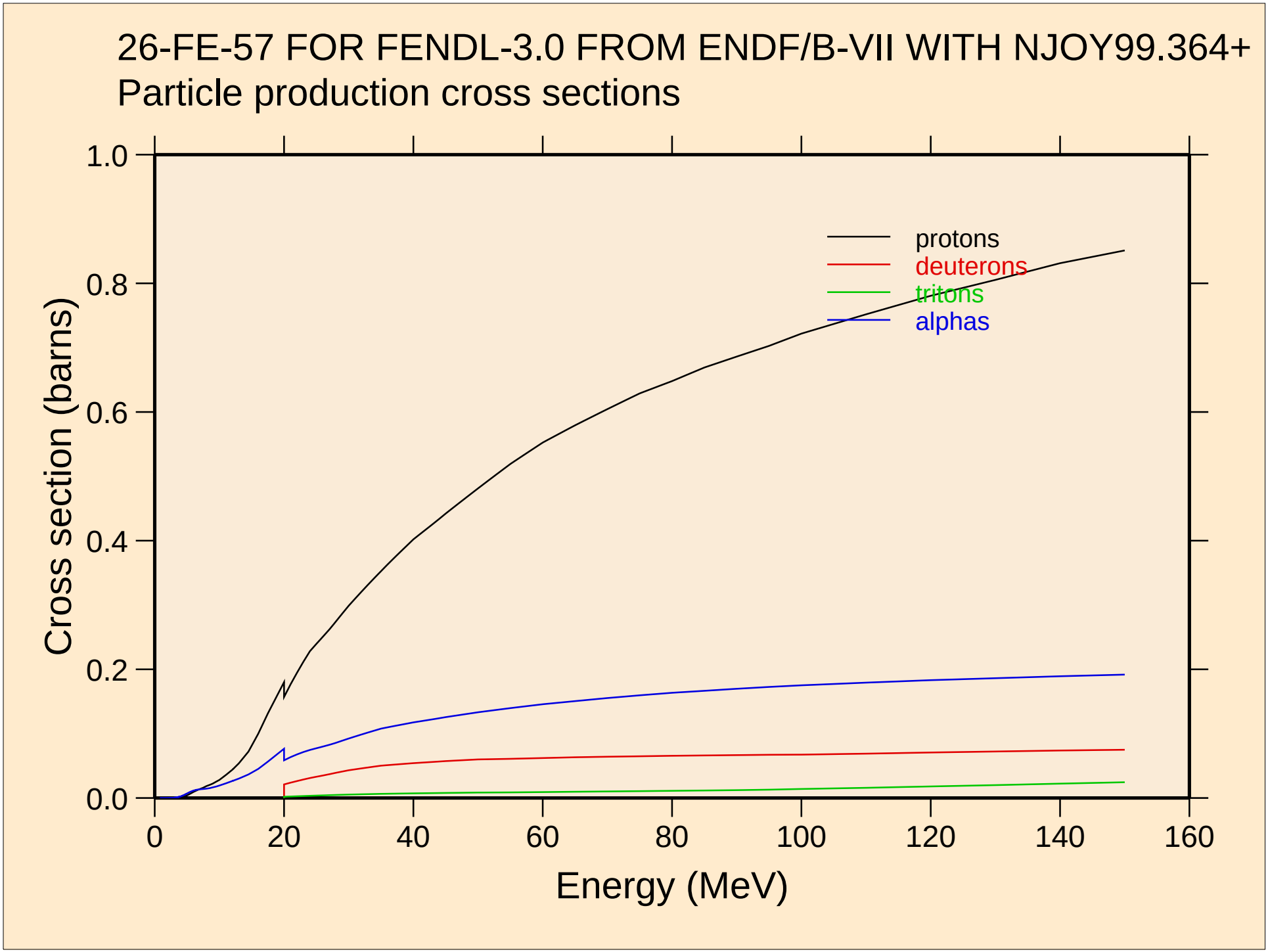

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Photon emission for (n,a)
Prob/MeV
10^{0}
10^{-2}
0
10
E_γ (MeV)
20
0
5
10
15
20
E_n (MeV)

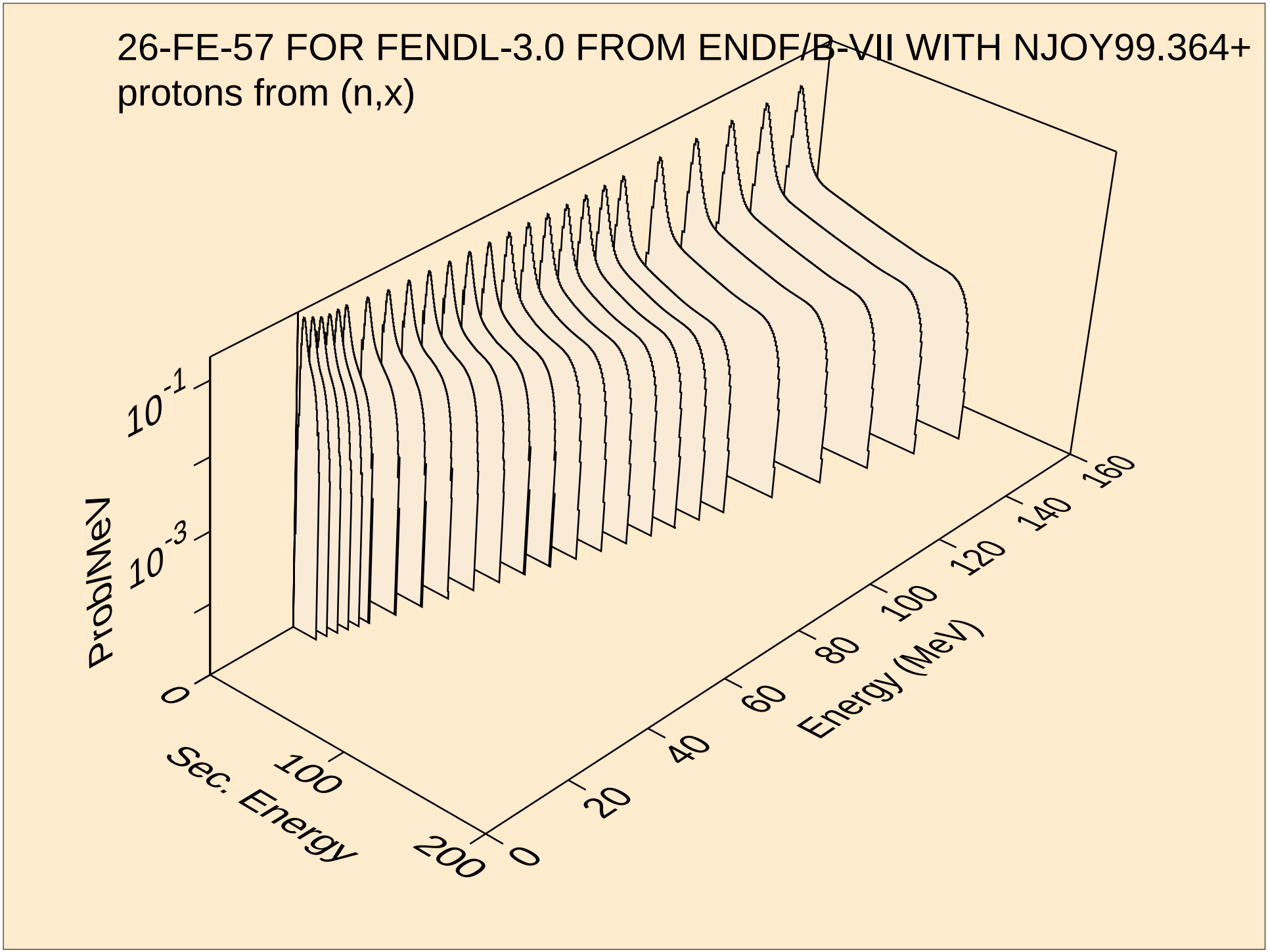

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10^2
10^1
10^0
0
2
4
6
8
10
Gamma Energy (MeV)

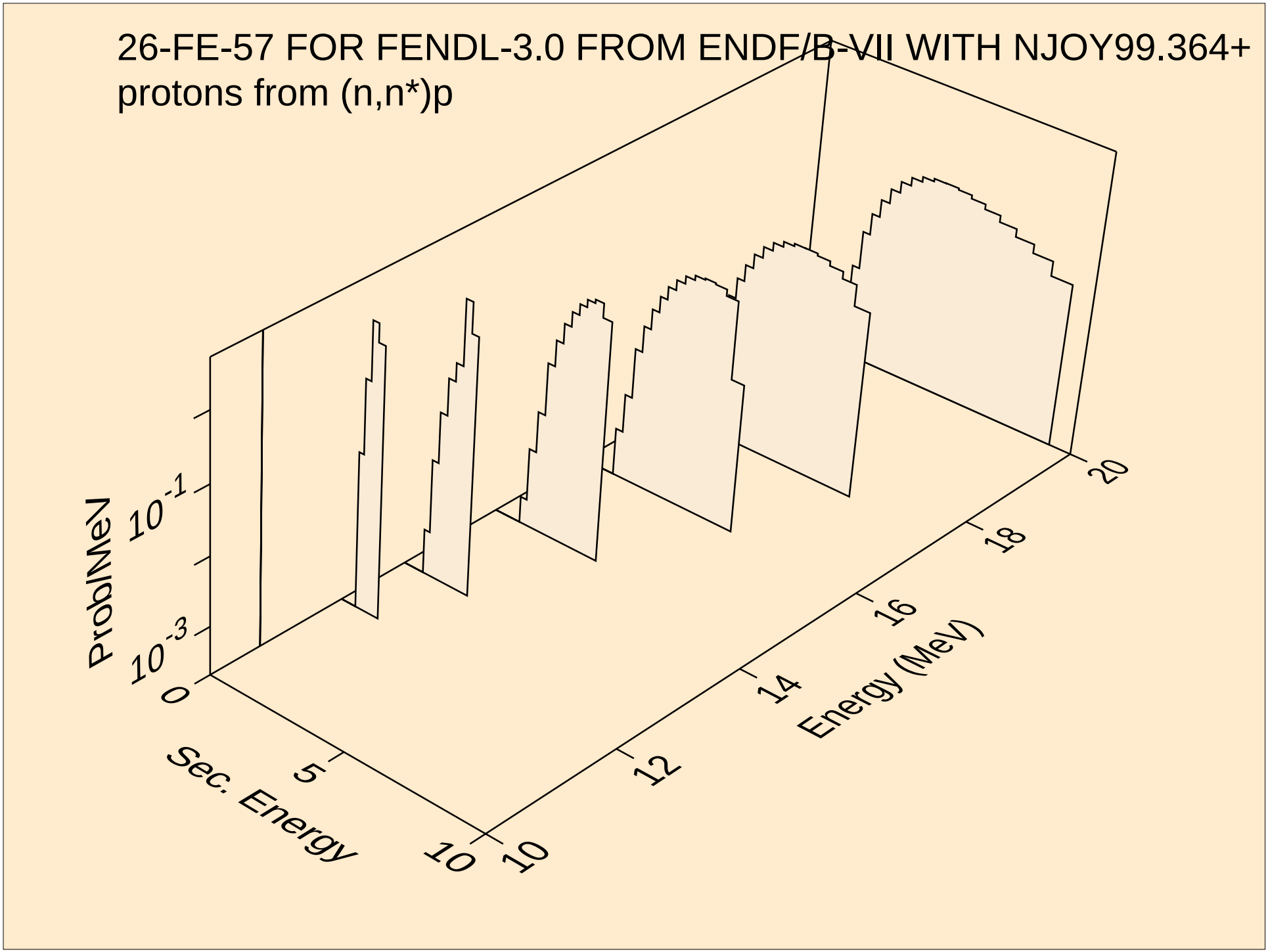

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
10
20
30
Gamma Energy (MeV)

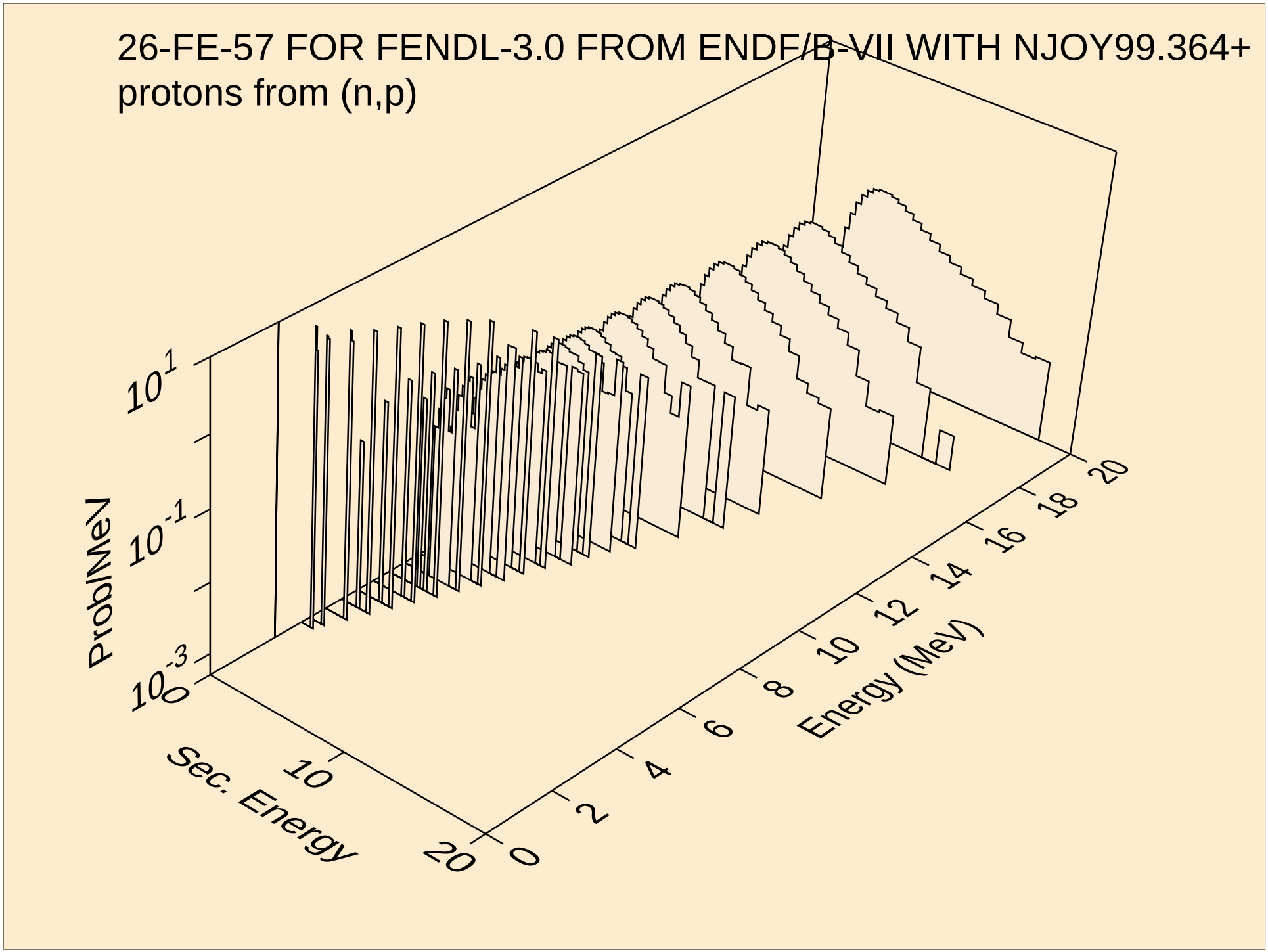

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Particle heating contributions
protons
deuterons
tritons
alphas
MeV/collision
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
20
0
20
40
60
80
100
120
140
160

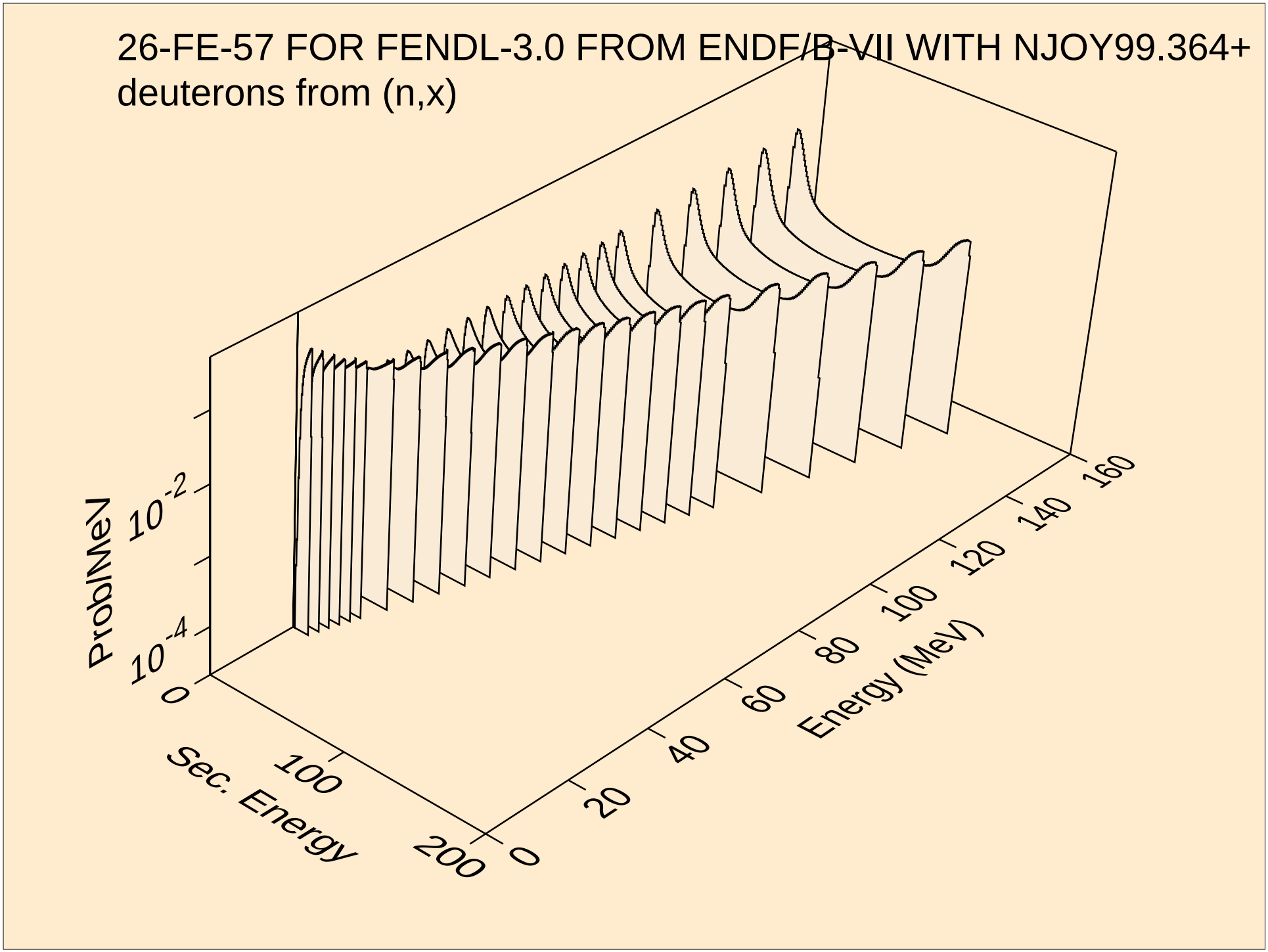

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
0
20
40
60
80
100
120
140
160

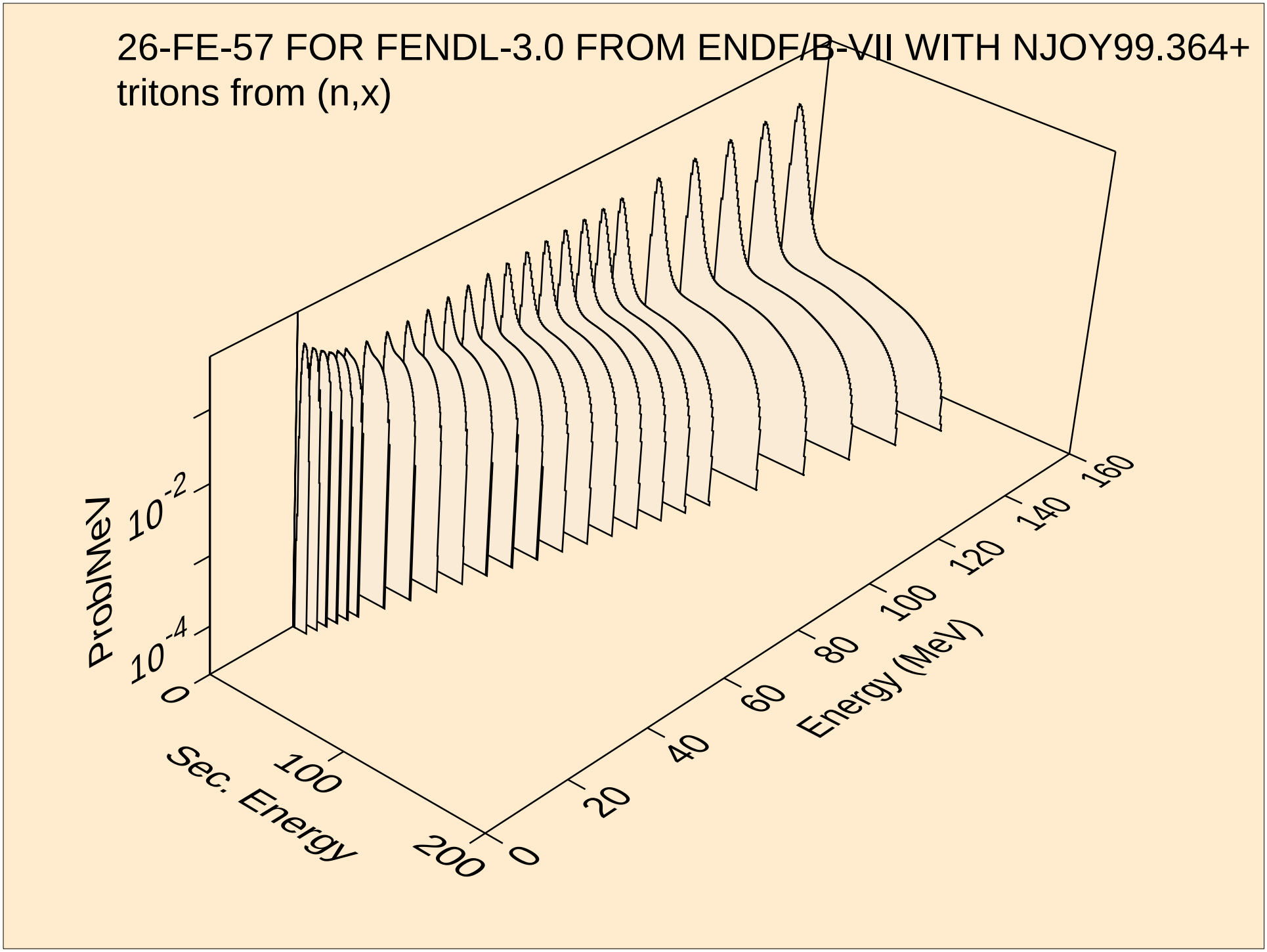

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
Particle production cross sections
Cross section (barns)
Energy (MeV)
protons
deuterons
tritons
alphas
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
120
140
160

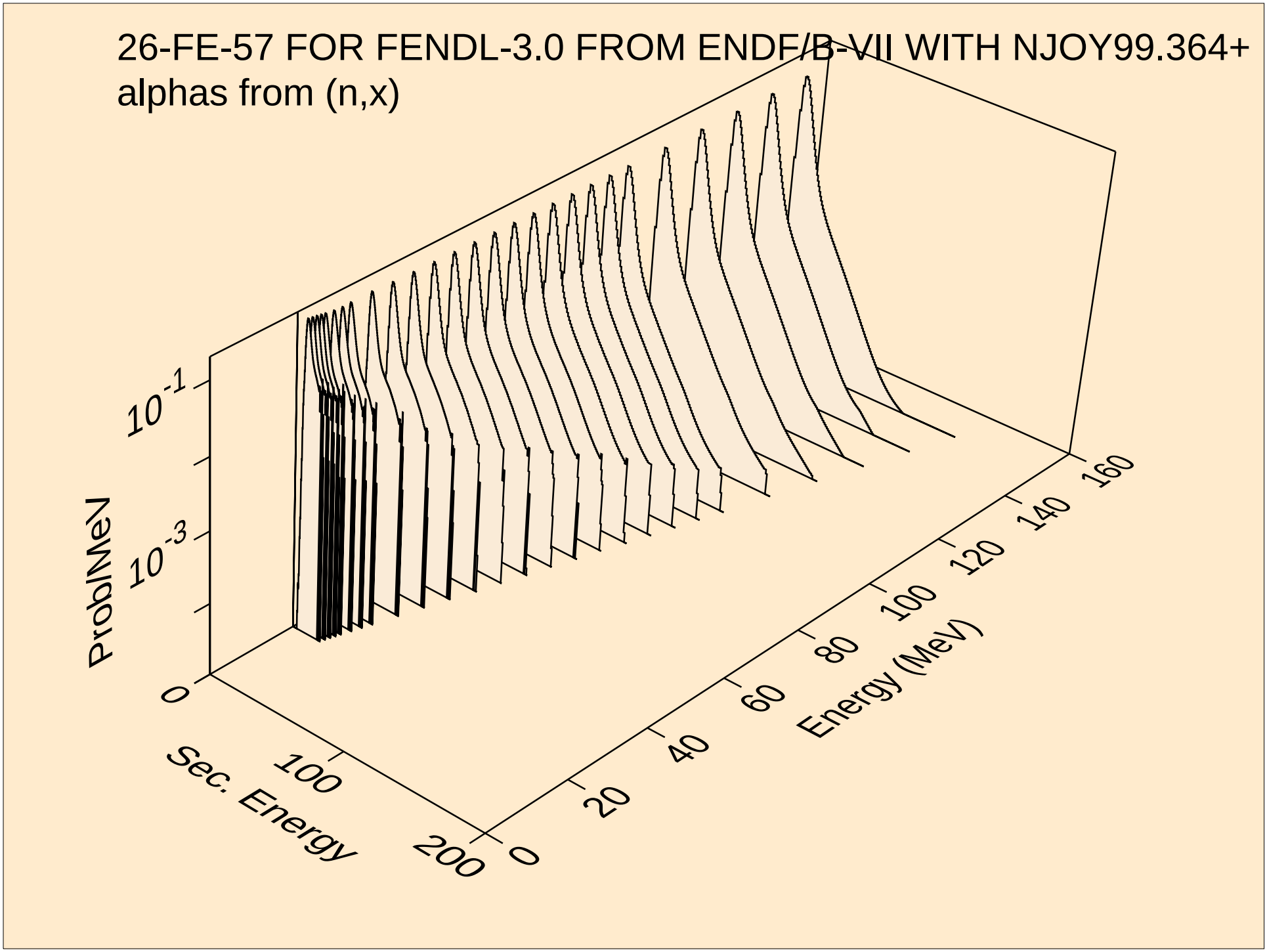

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
protons from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
20
40
60
80
100
120
140
160
Energy (MeV)

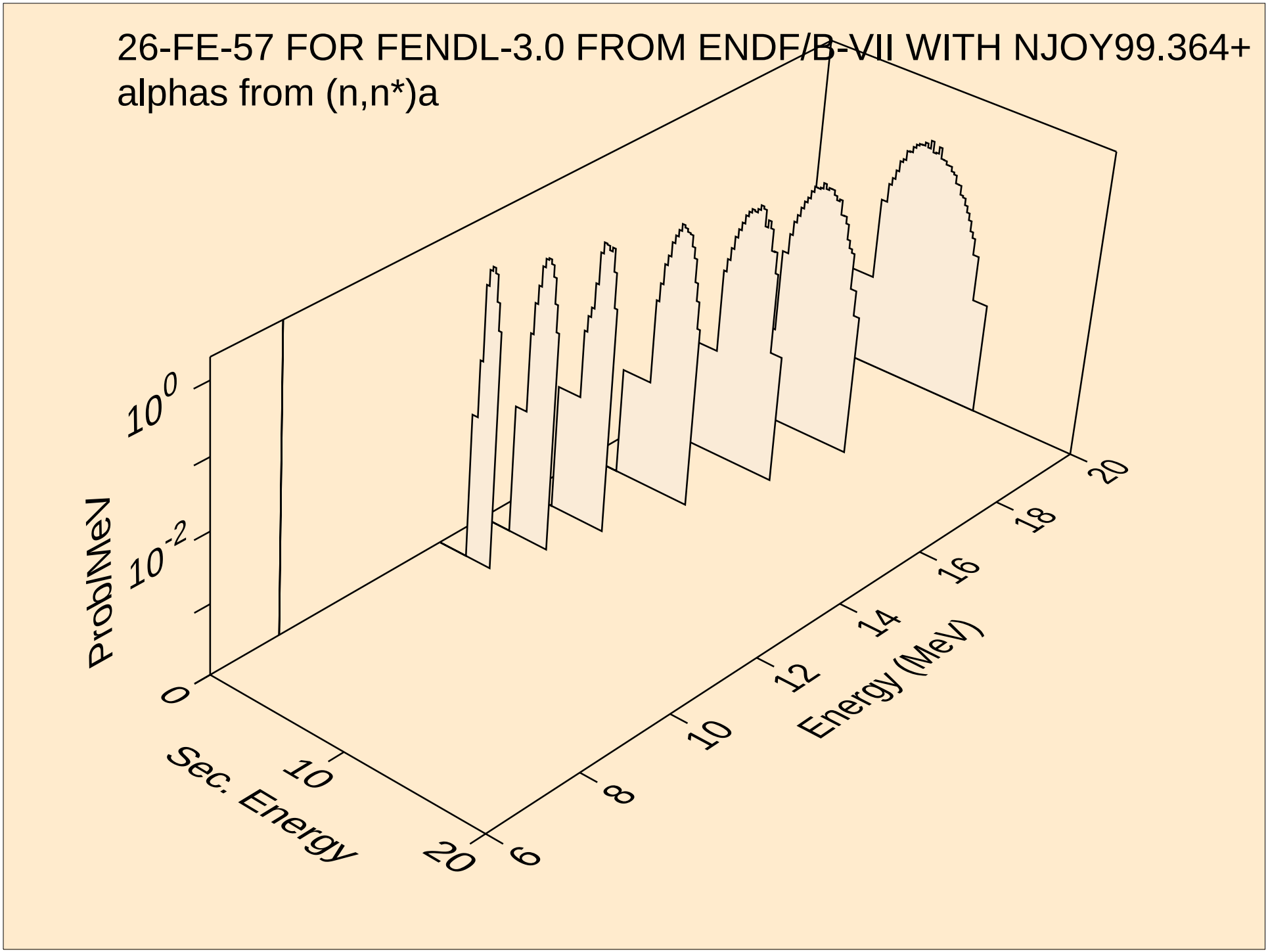

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
protons from (n,n*)p
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
10
12
14
16
18
20
Energy (MeV)

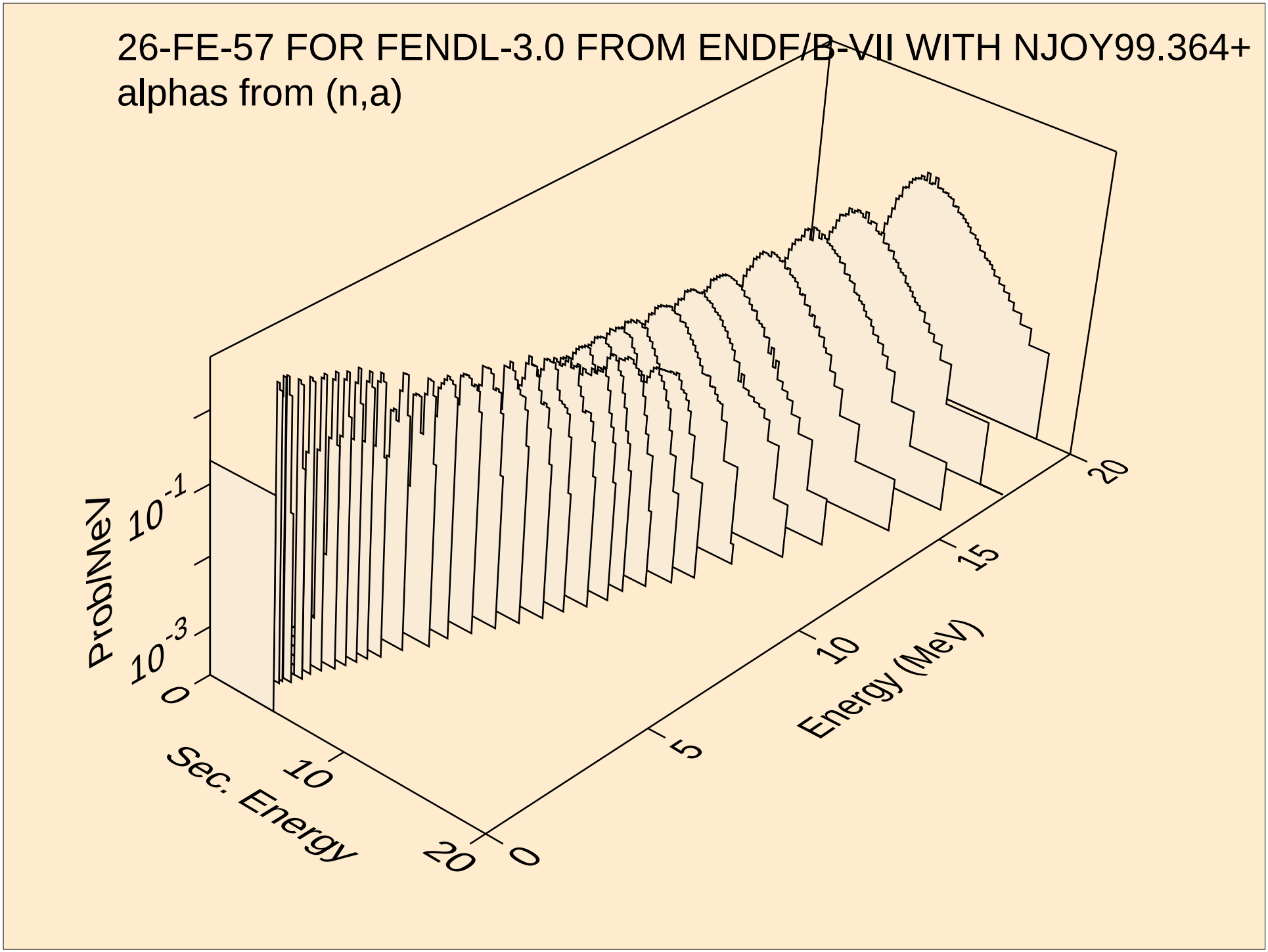

26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
protons from (n,p)
Prob/MeV
10^1
10^-1
10^-3
Sec. Energy
0
10
20
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
20


26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
deuterons from (n,x)
Prob/MeV
10-2
10-4
0
100
200
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)


26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
tritons from (n,x)
Prob/MeV
10-2
10-4
0
100
200
Sec. Energy
0
20
40
60
80
100
120
140
160
Energy (MeV)


26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
alphas 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)


26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
alphas from (n,n*)a
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
Energy (MeV)
6
8
10
12
14
16
18
20


26-FE-57 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+
alphas from (n,a)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
0
5
10
15
20
Energy (MeV)