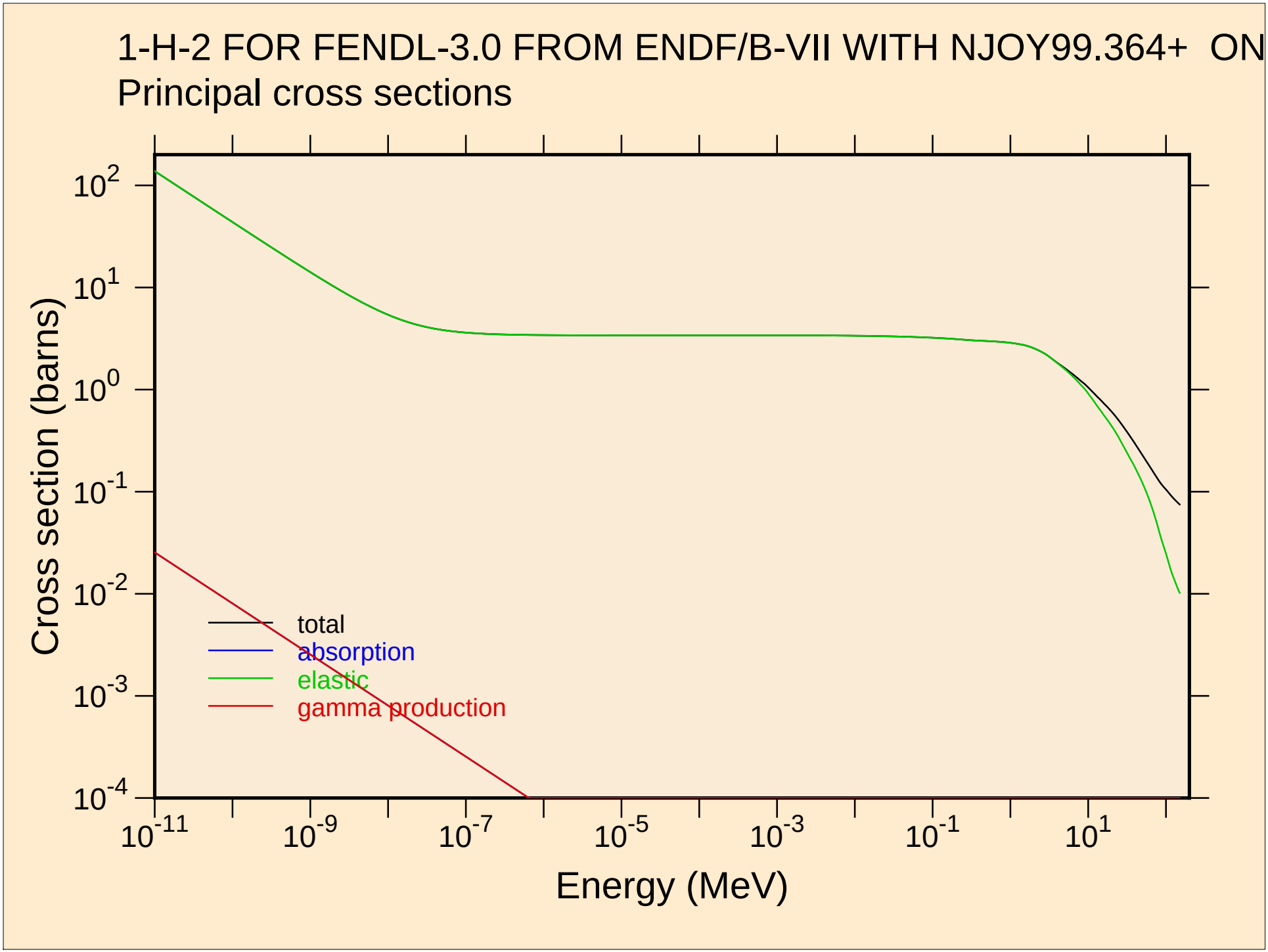
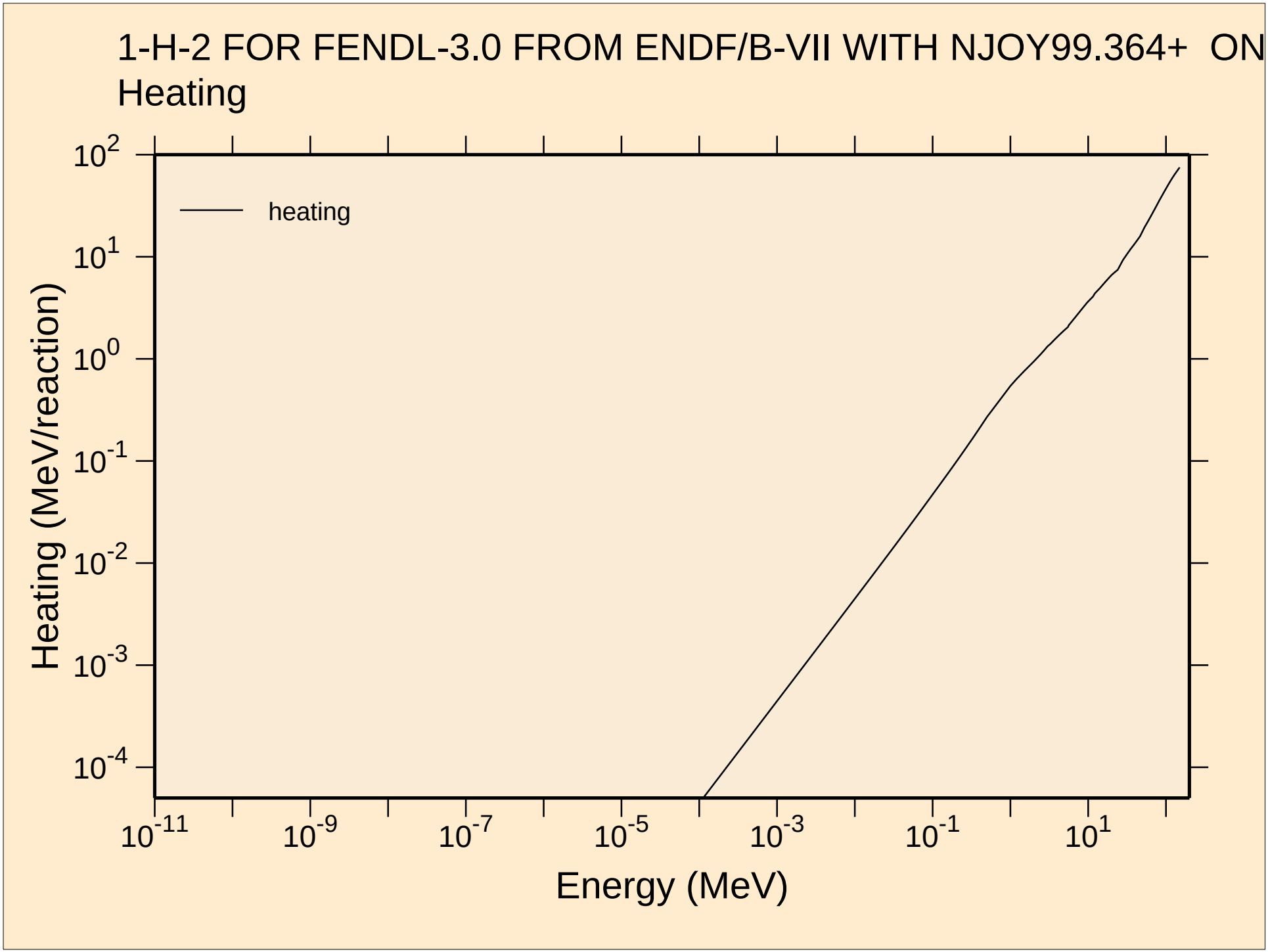
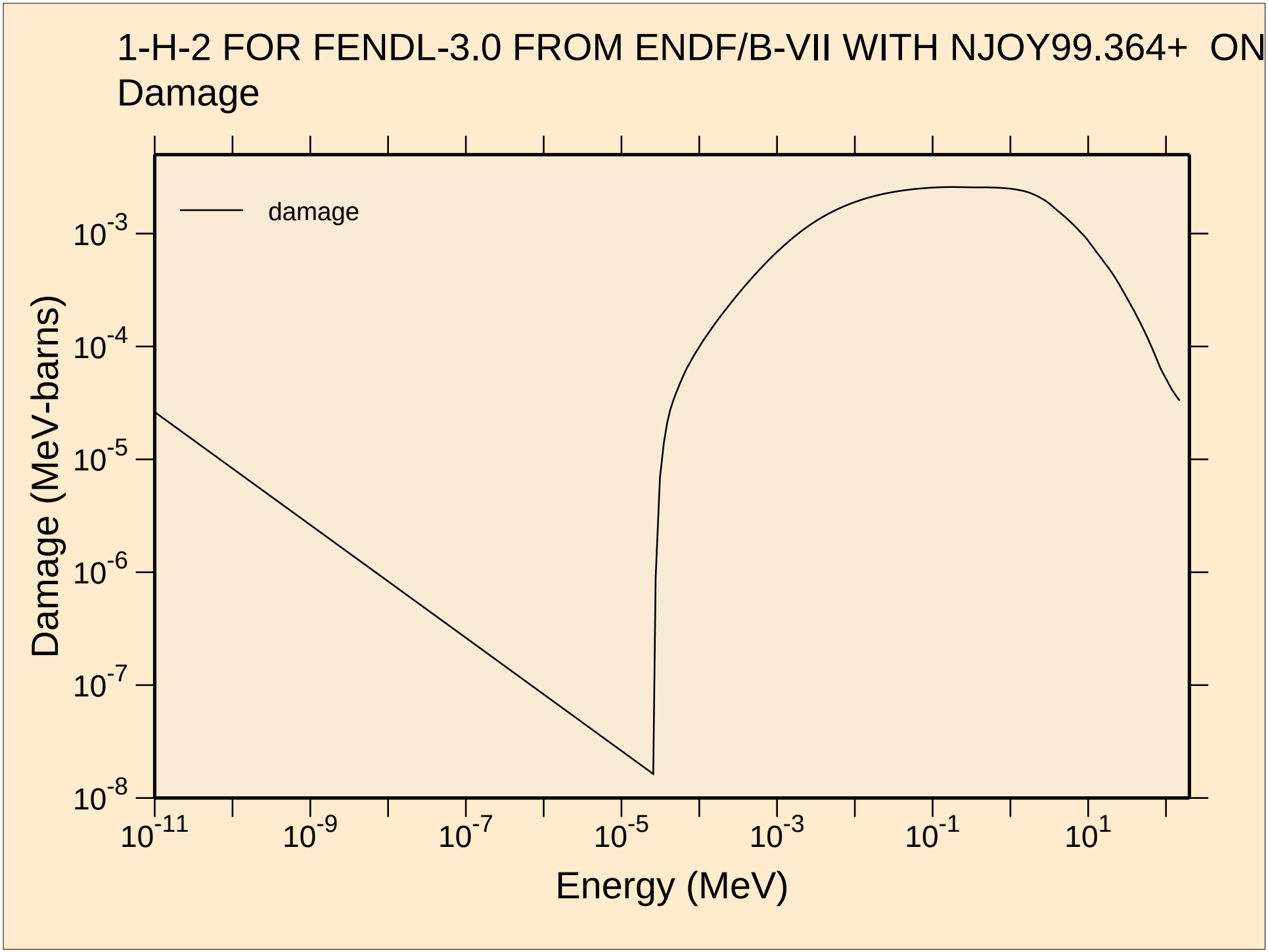
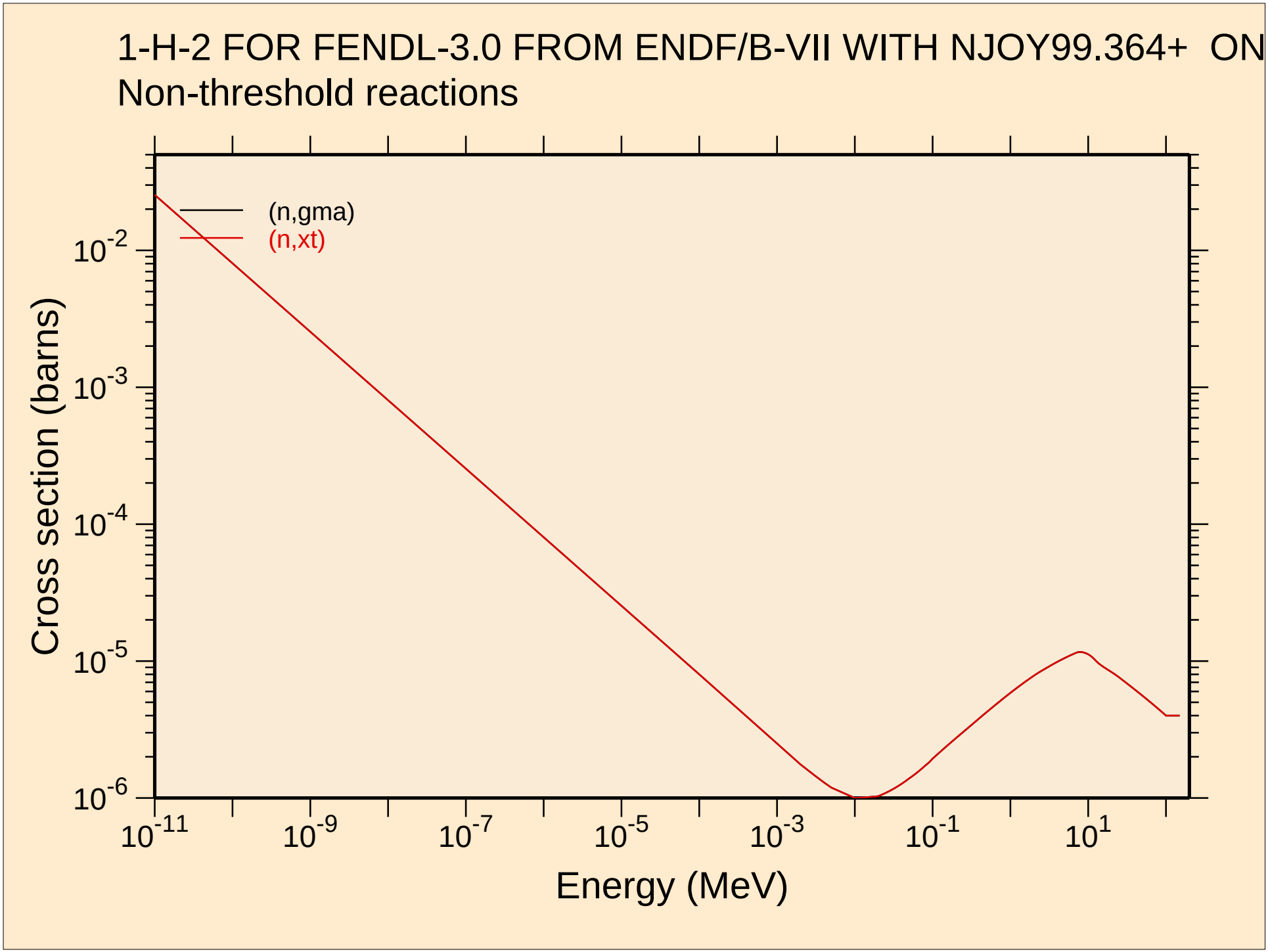
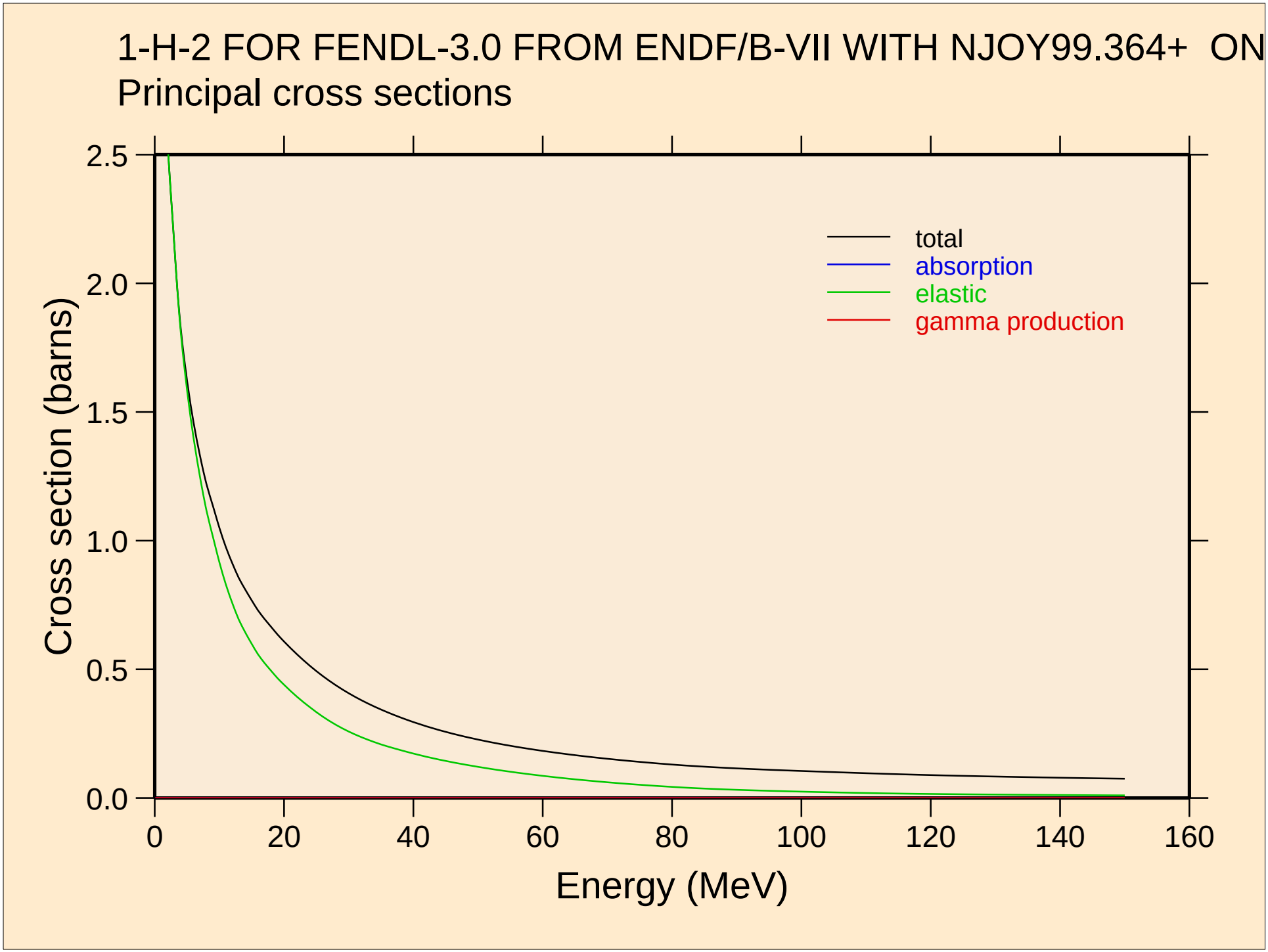
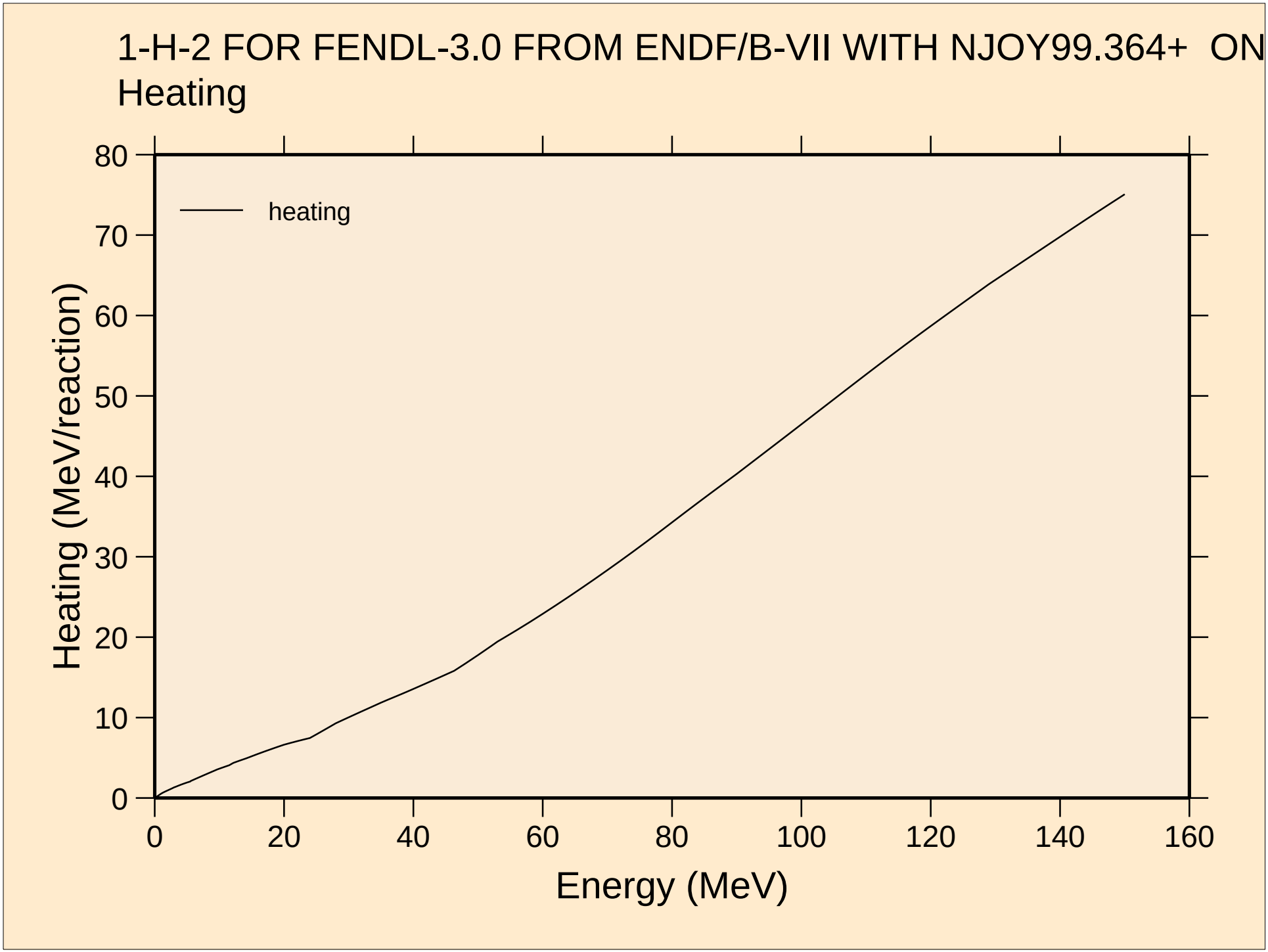

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production

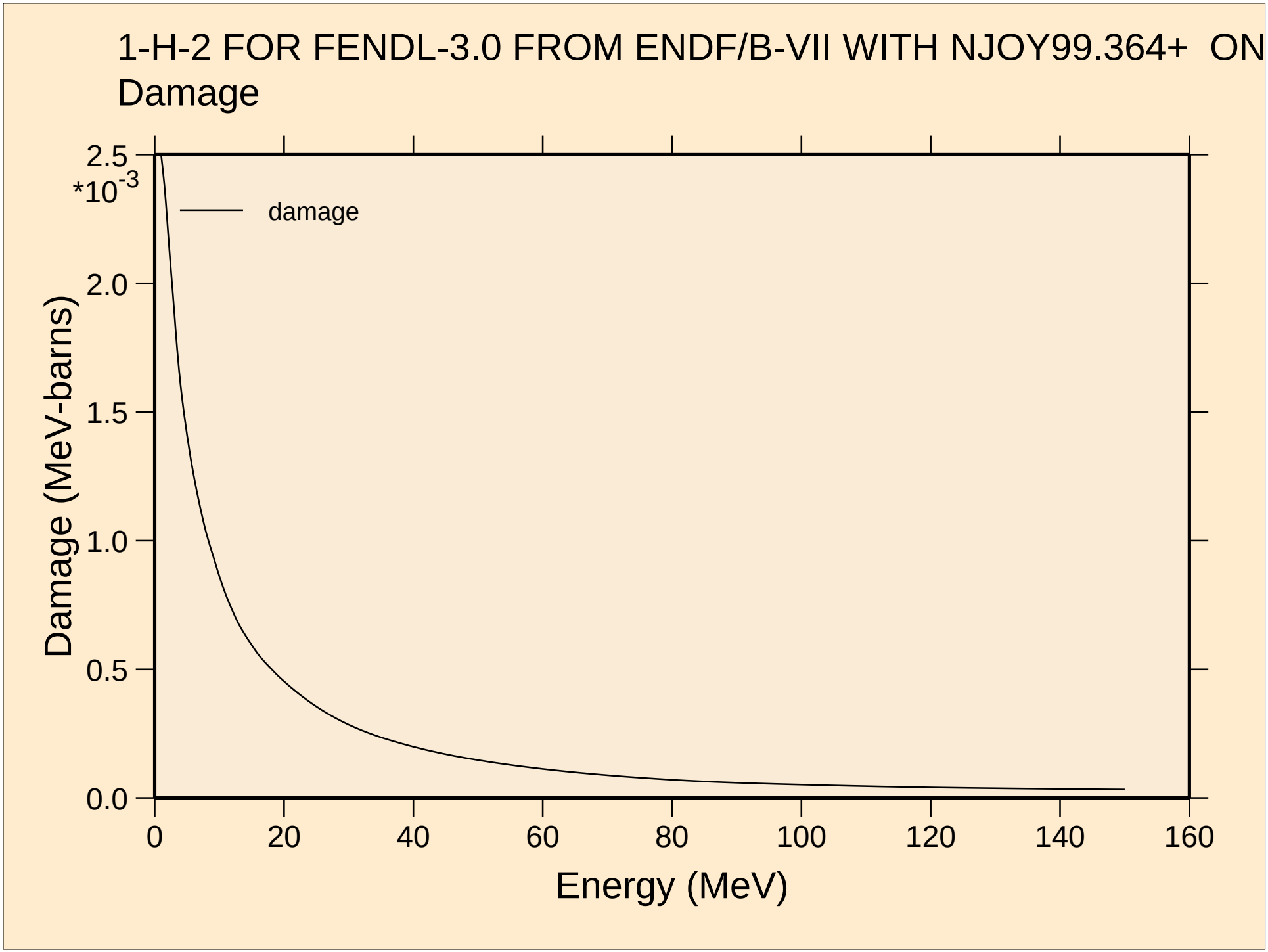

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

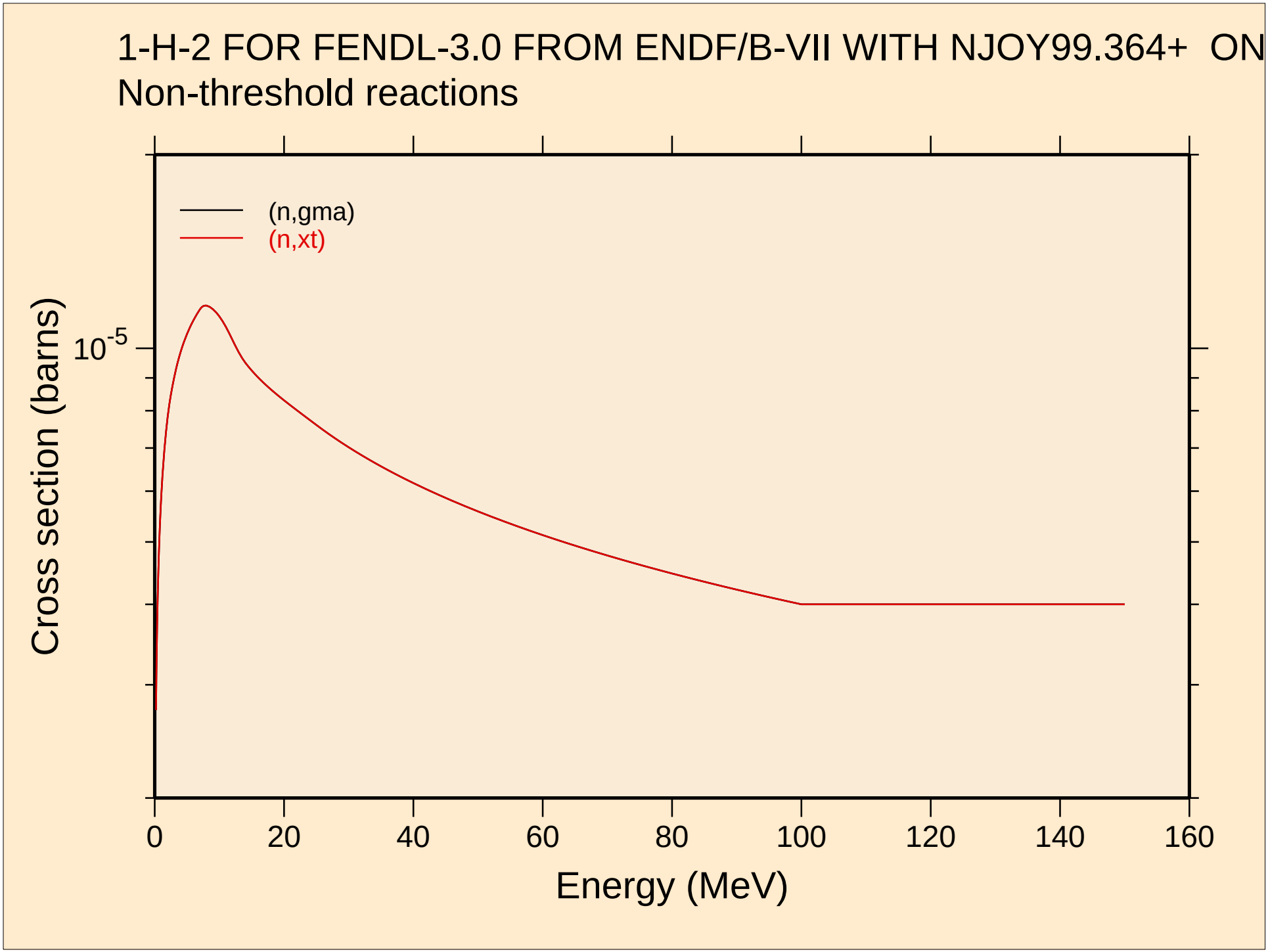

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Damage
damage
Damage (MeV-barns)
10-3
10-4
10-5
10-6
10-7
10-8
10-11
10-9
10-7
10-5
10-3
10-1
101
Energy (MeV)

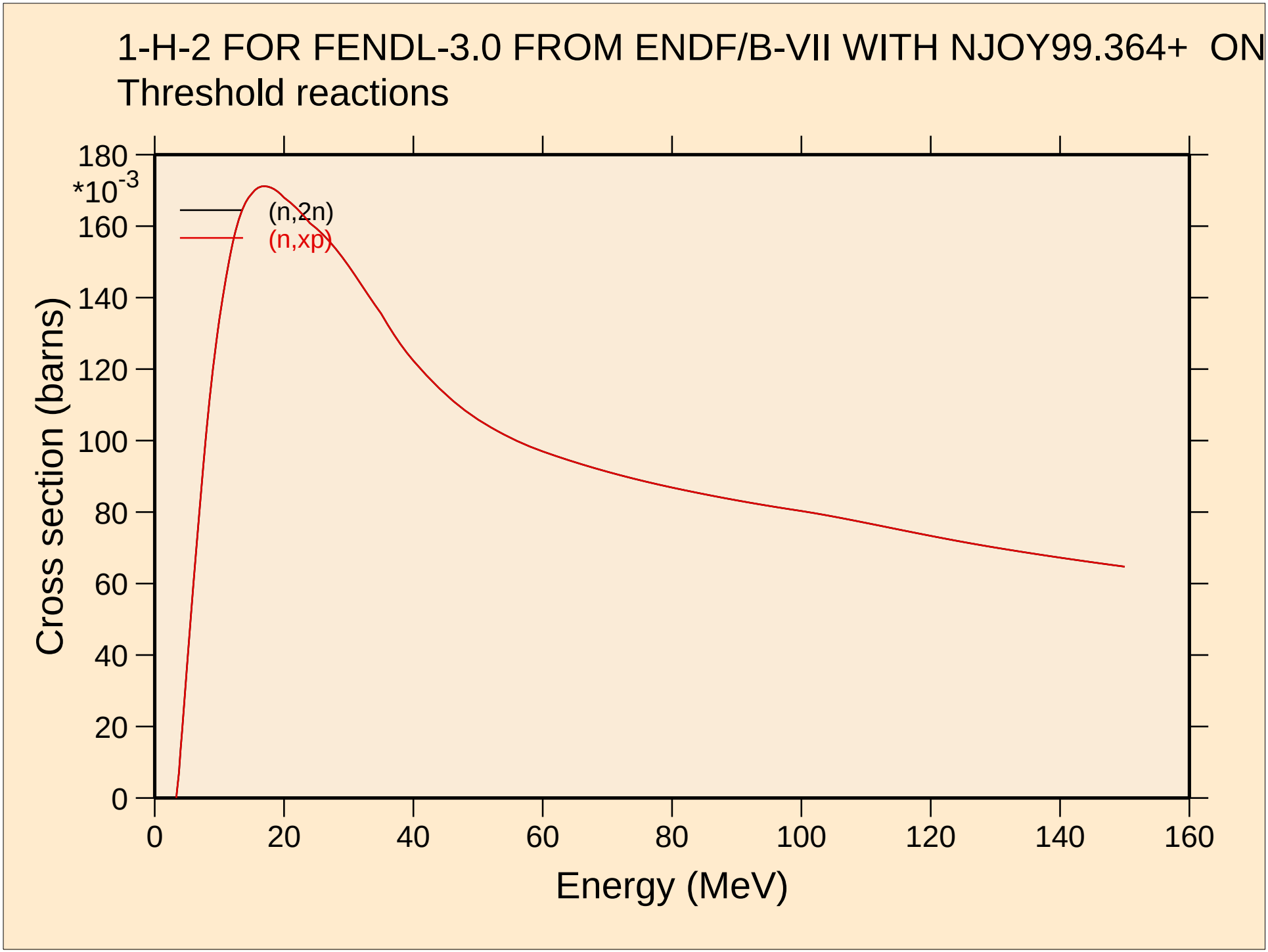

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Non-threshold reactions
(n,gma)
(n,xt)
Cross section (barns)
10-2
10-3
10-4
10-5
10-6
10-11
10-9
10-7
10-5
10-3
10-1
101
Energy (MeV)

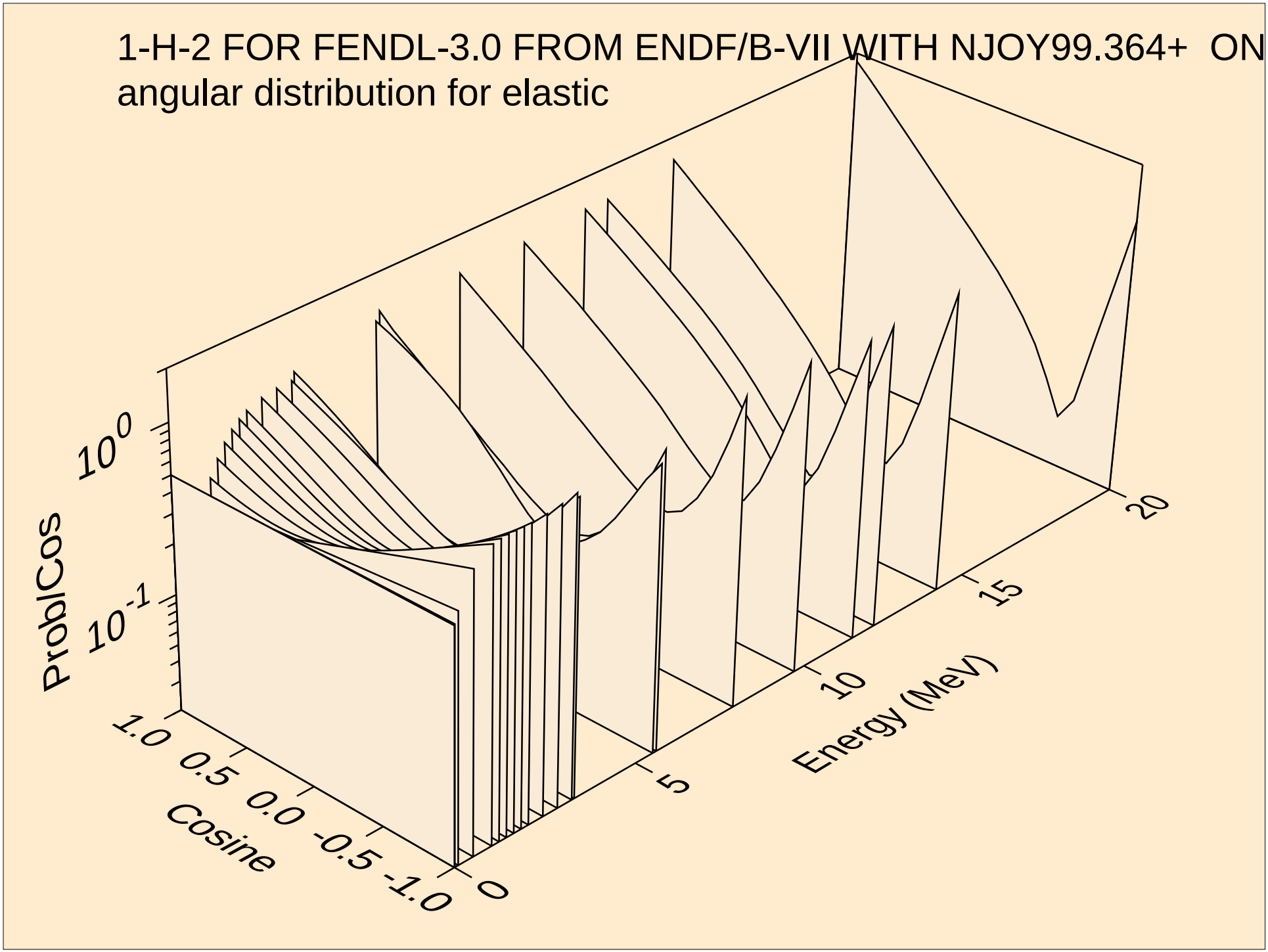

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Principal cross sections
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
0
20
40
60
80
100
120
140
160
total
absorption
elastic
gamma production

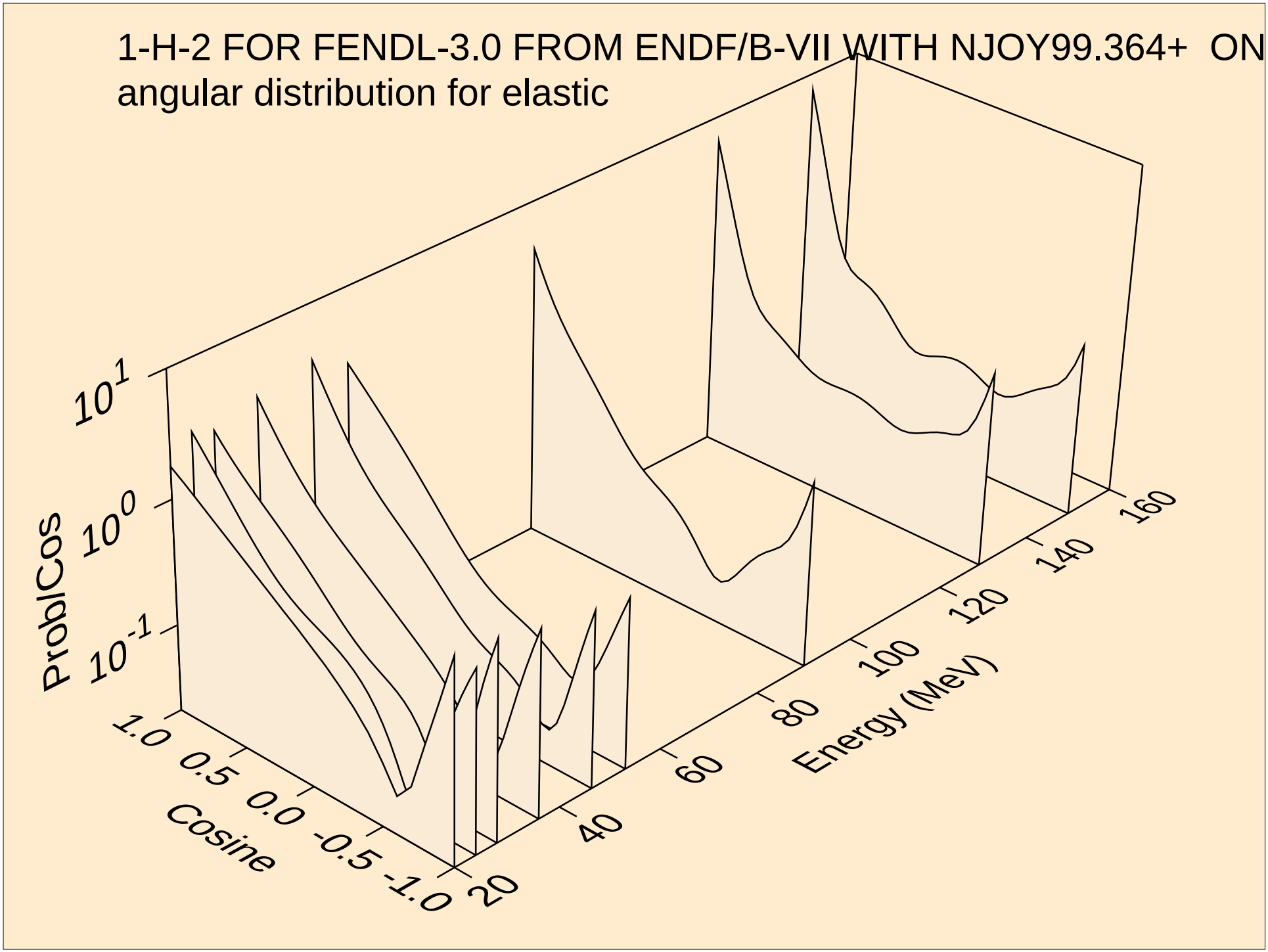

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
60
70
80
0
20
40
60
80
100
120
140
160

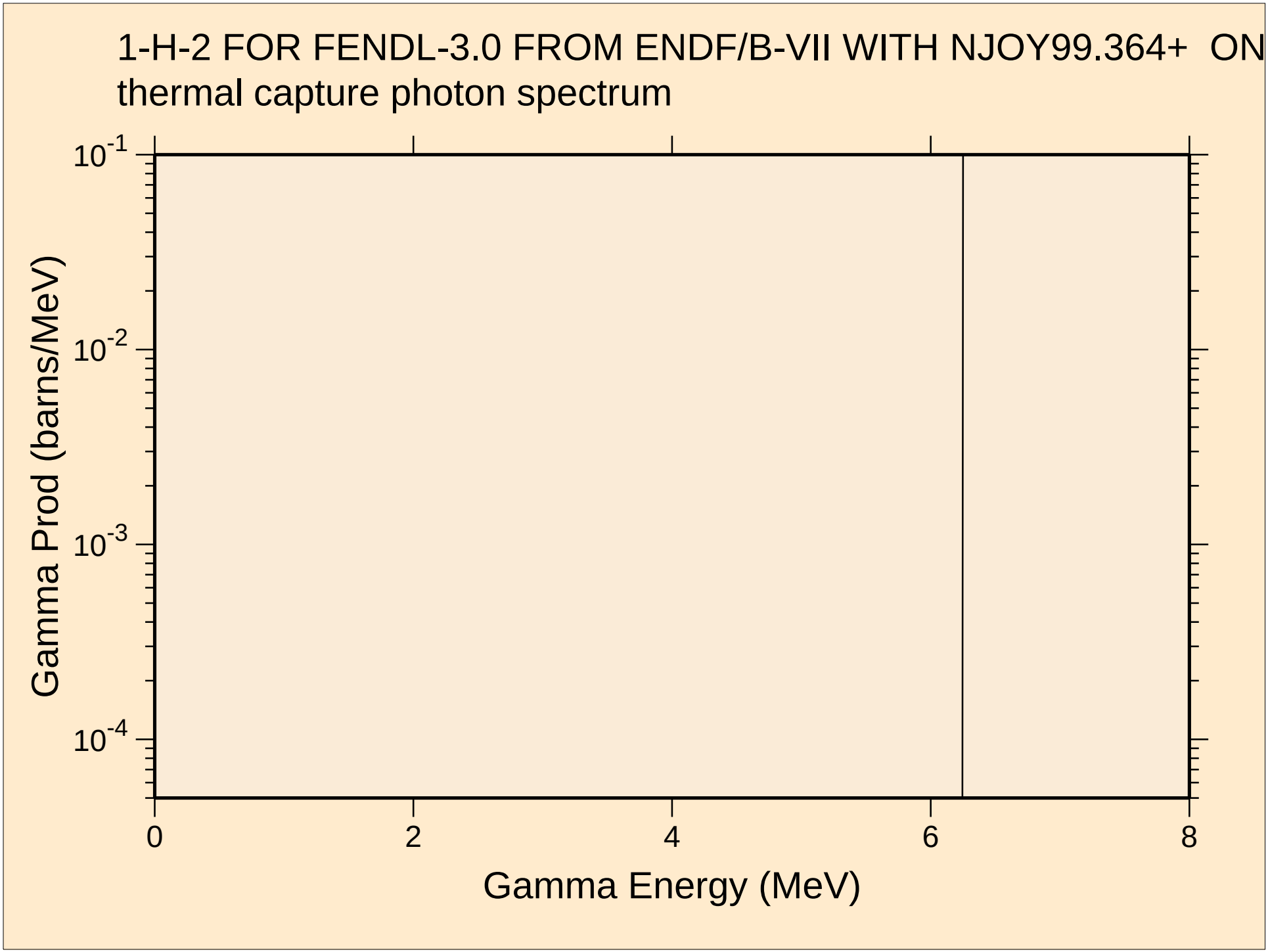

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Damage
2.5
*10-3
damage
2.0
1.5
1.0
0.5
0.0
Damage (MeV-barns)
0
20
40
60
80
100
120
140
160
Energy (MeV)

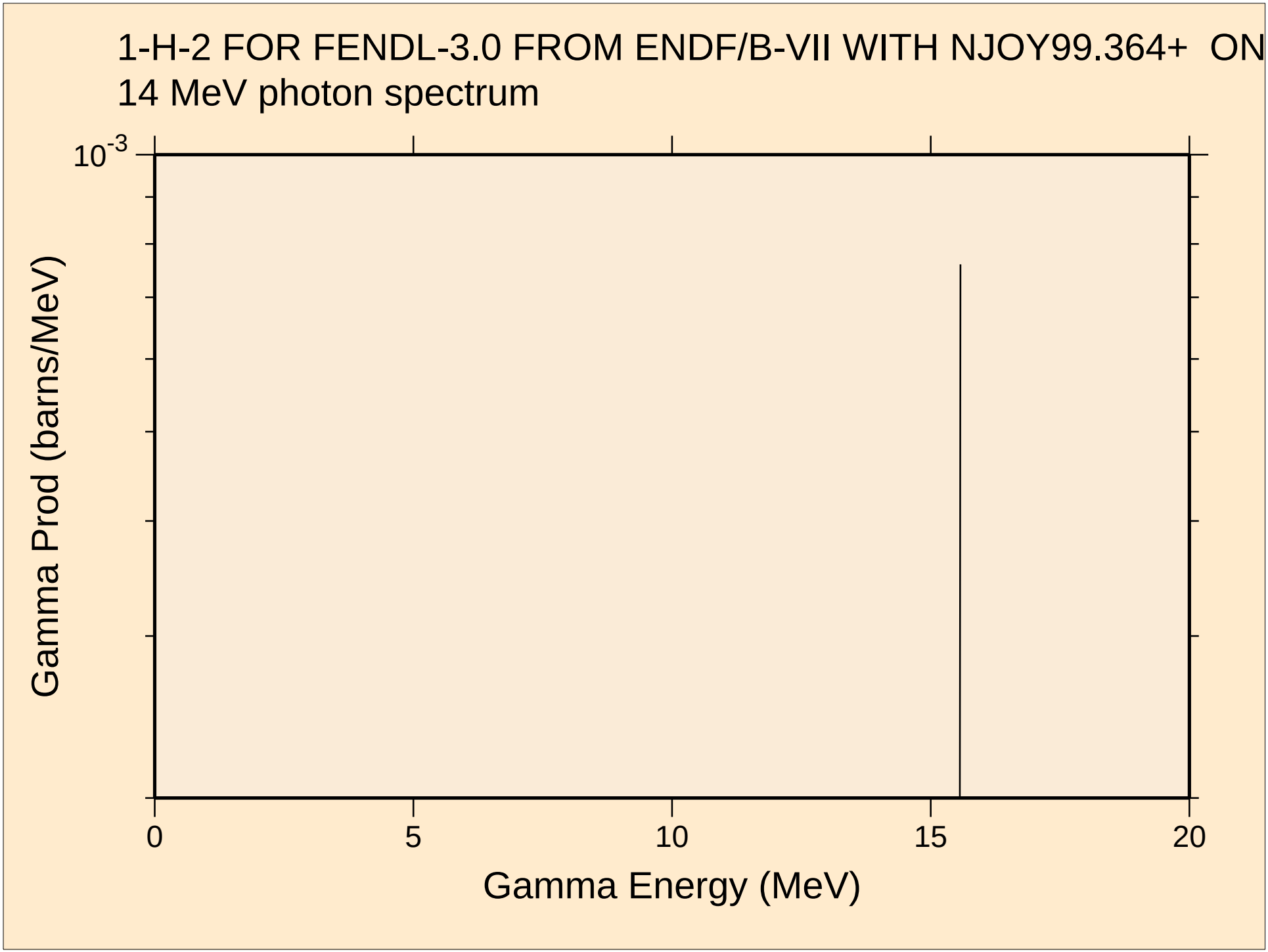

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Non-threshold reactions
(n,gma)
(n,xt)
Cross section (barns)
10-5
0
20
40
60
80
100
120
140
160
Energy (MeV)

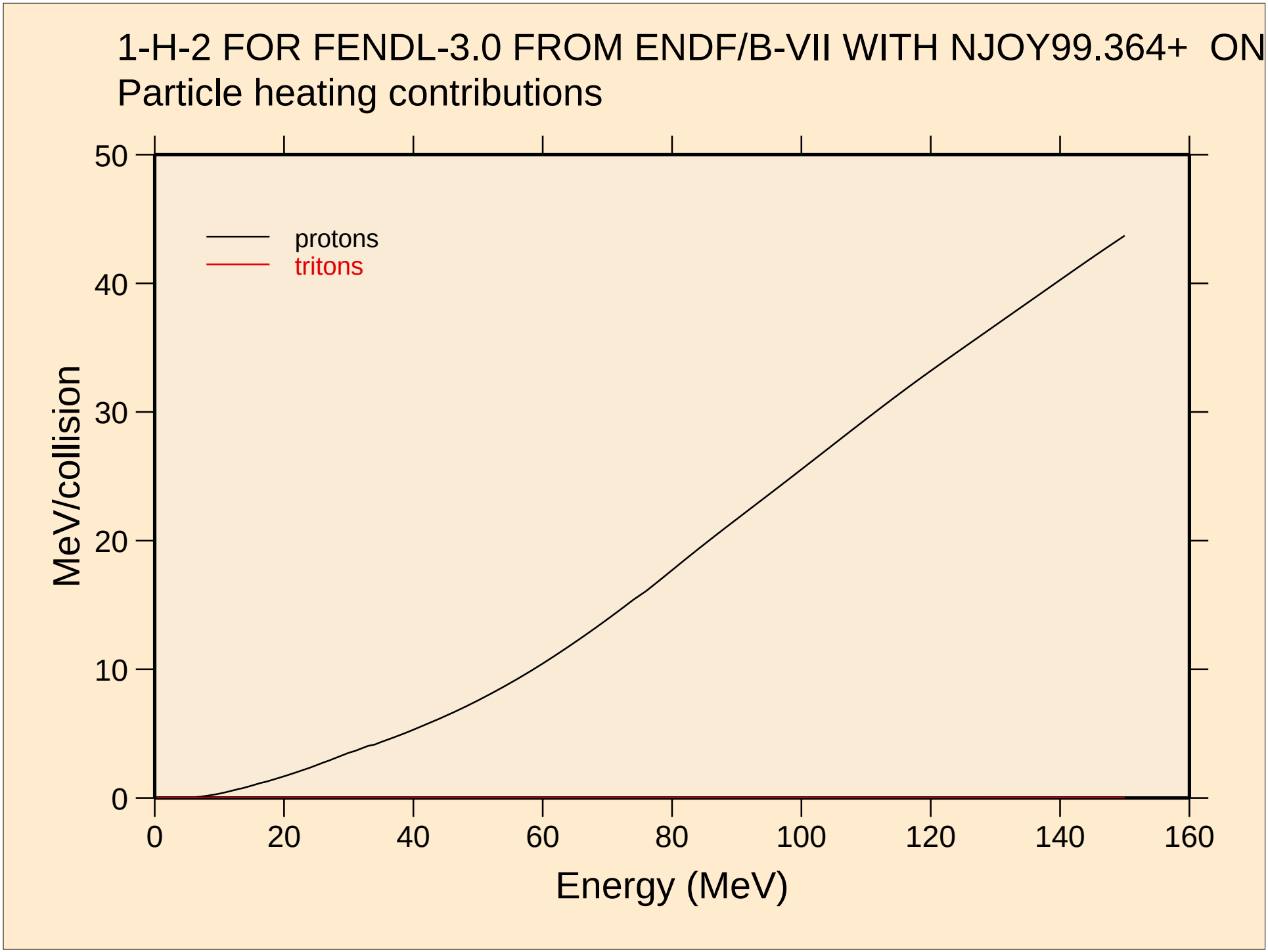

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Threshold reactions
*10-3
(n,2n)
(n,xp)
Cross section (barns)
Energy (MeV)
0
20
40
60
80
100
120
140
160
180

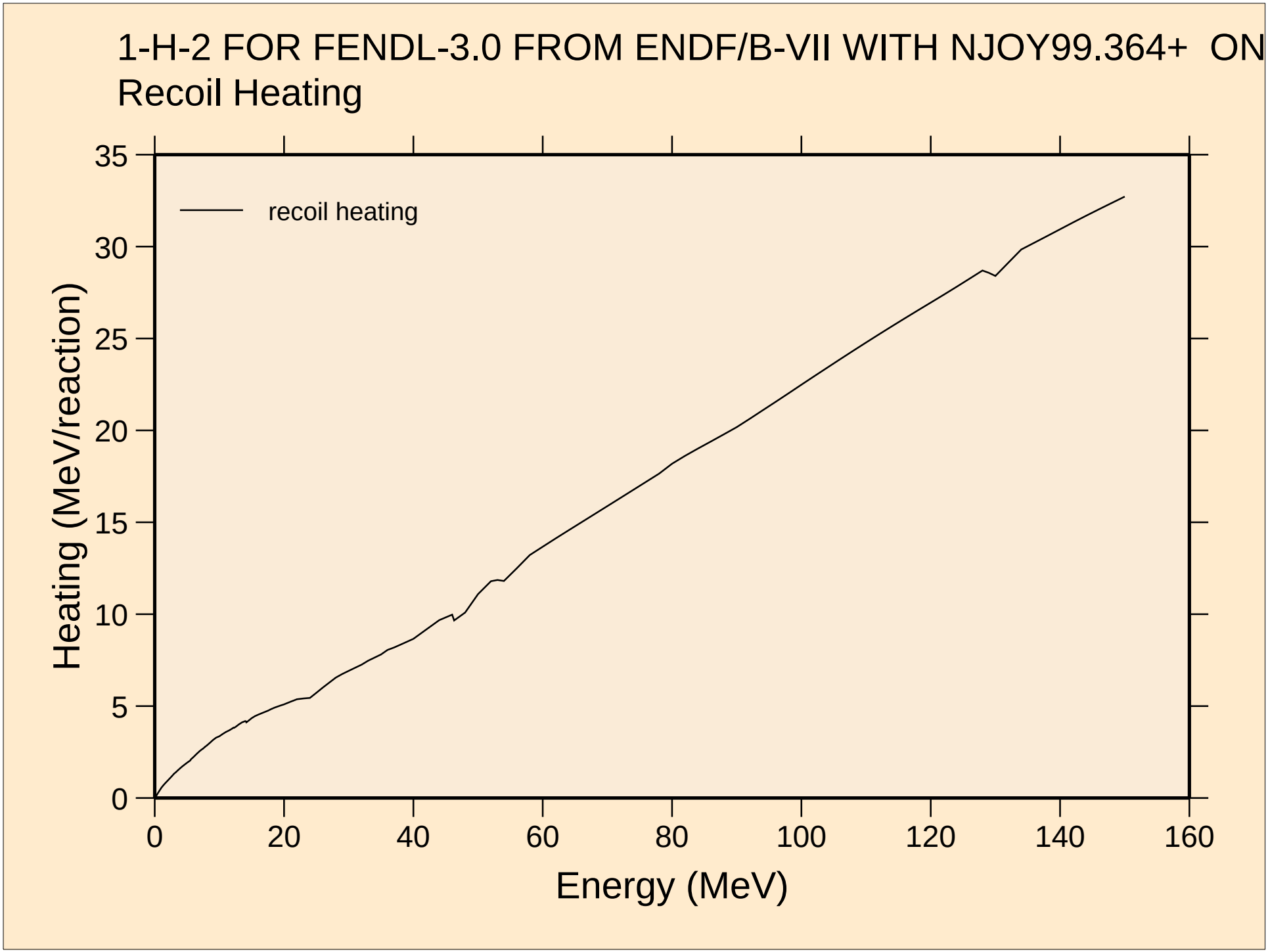

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
angular distribution for elastic
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

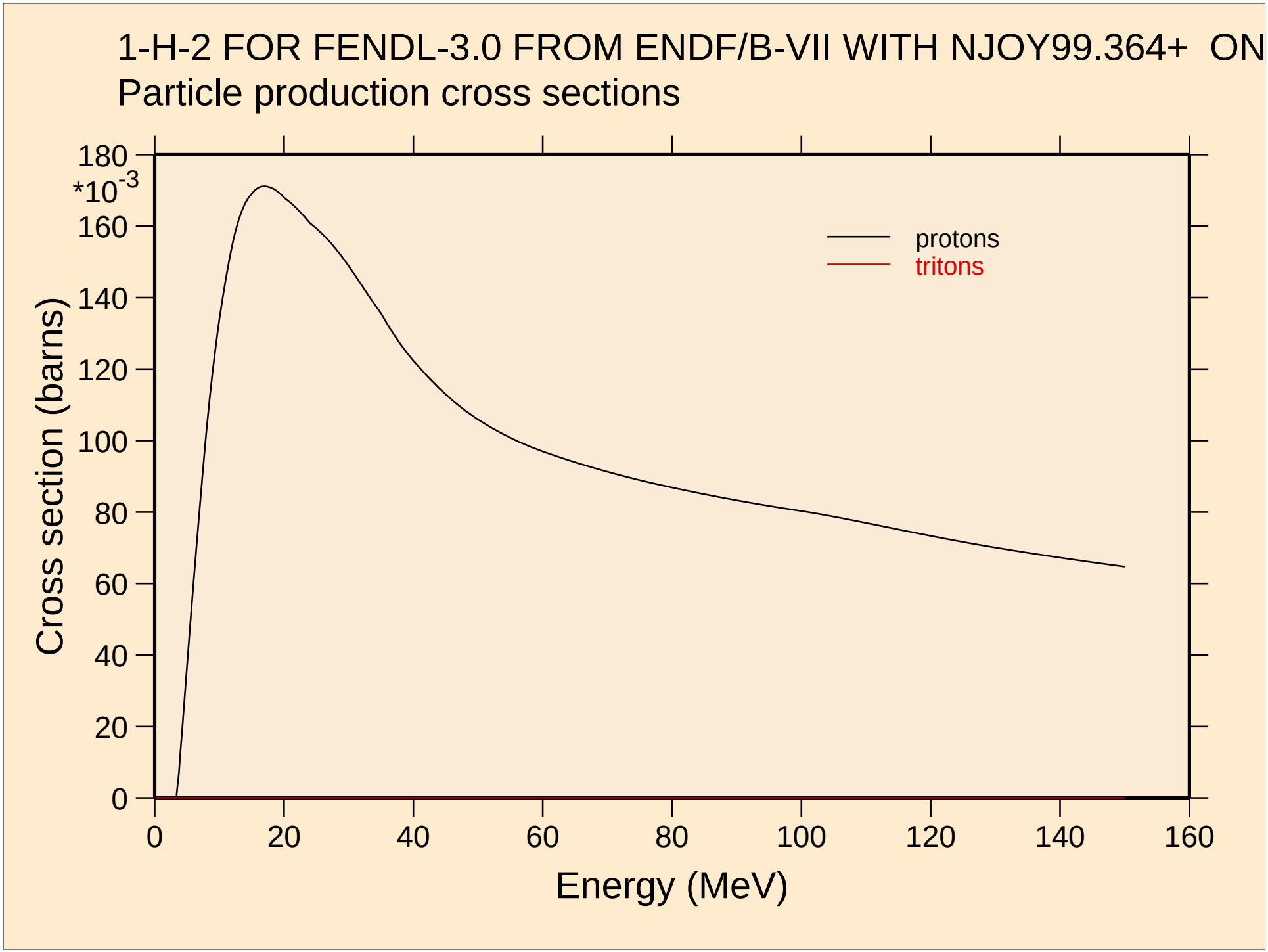

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
angular distribution for elastic
ProbCos
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
Energy (MeV)

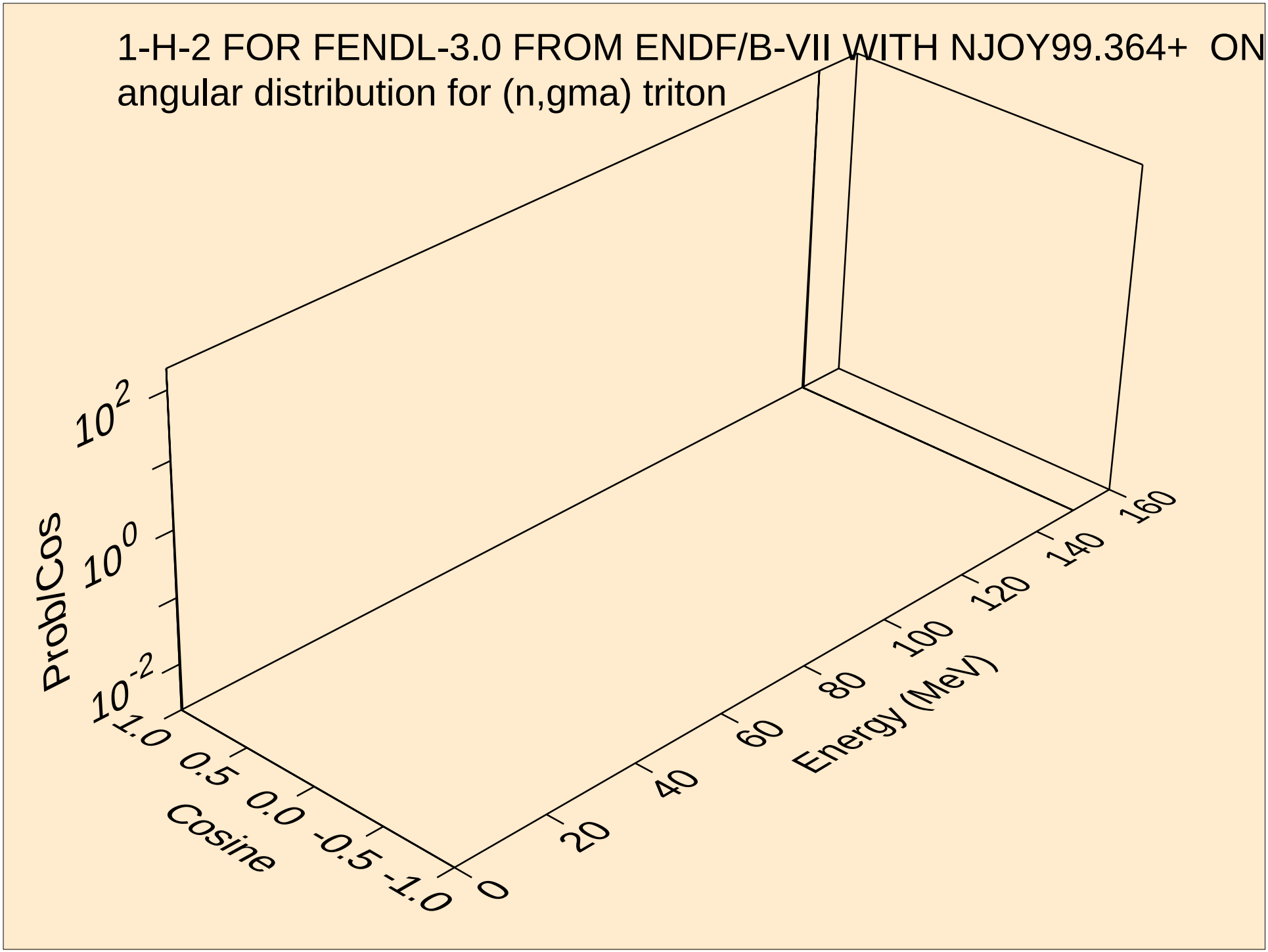

1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10-1
10-2
10-3
10-4
0
2
4
6
8
Gamma Energy (MeV)


1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
14 MeV photon spectrum
10-3
Gamma Prod (barns/MeV)
0
5
10
15
20
Gamma Energy (MeV)


1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Particle heating contributions
protons
tritons
MeV/collision
Energy (MeV)
0
10
20
30
40
50
0
20
40
60
80
100
120
140
160


1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0
5
10
15
20
25
30
35
0
20
40
60
80
100
120
140
160


1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
Particle production cross sections
Cross section (barns)
*10-3
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
Energy (MeV)
protons
tritons


1-H-2 FOR FENDL-3.0 FROM ENDF/B-VII WITH NJOY99.364+ ON
angular distribution for (n,gma) triton
ProblCos
10^{2}
10^{0}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
20
40
60
80
100
120
140
160
Energy (MeV)