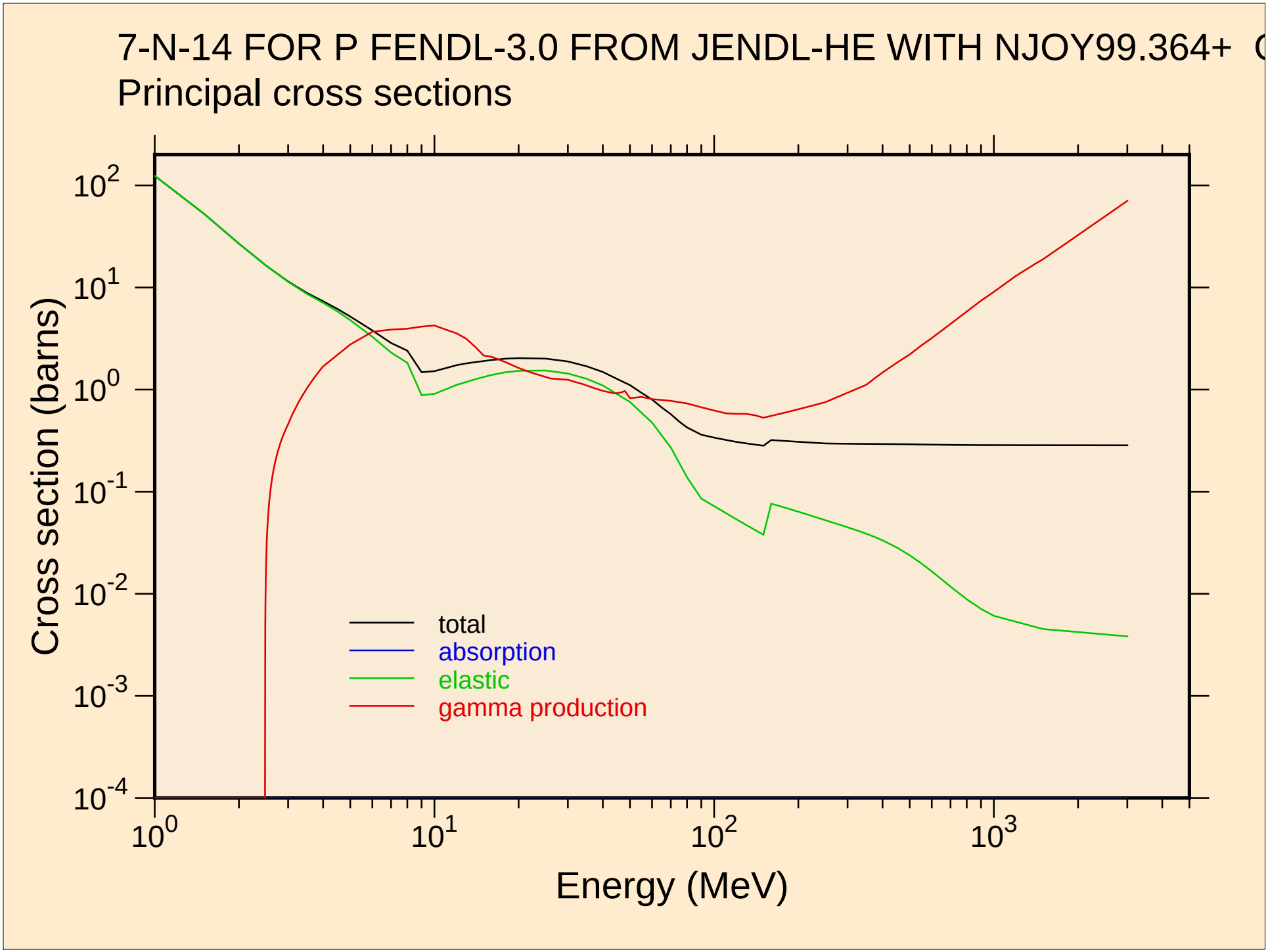
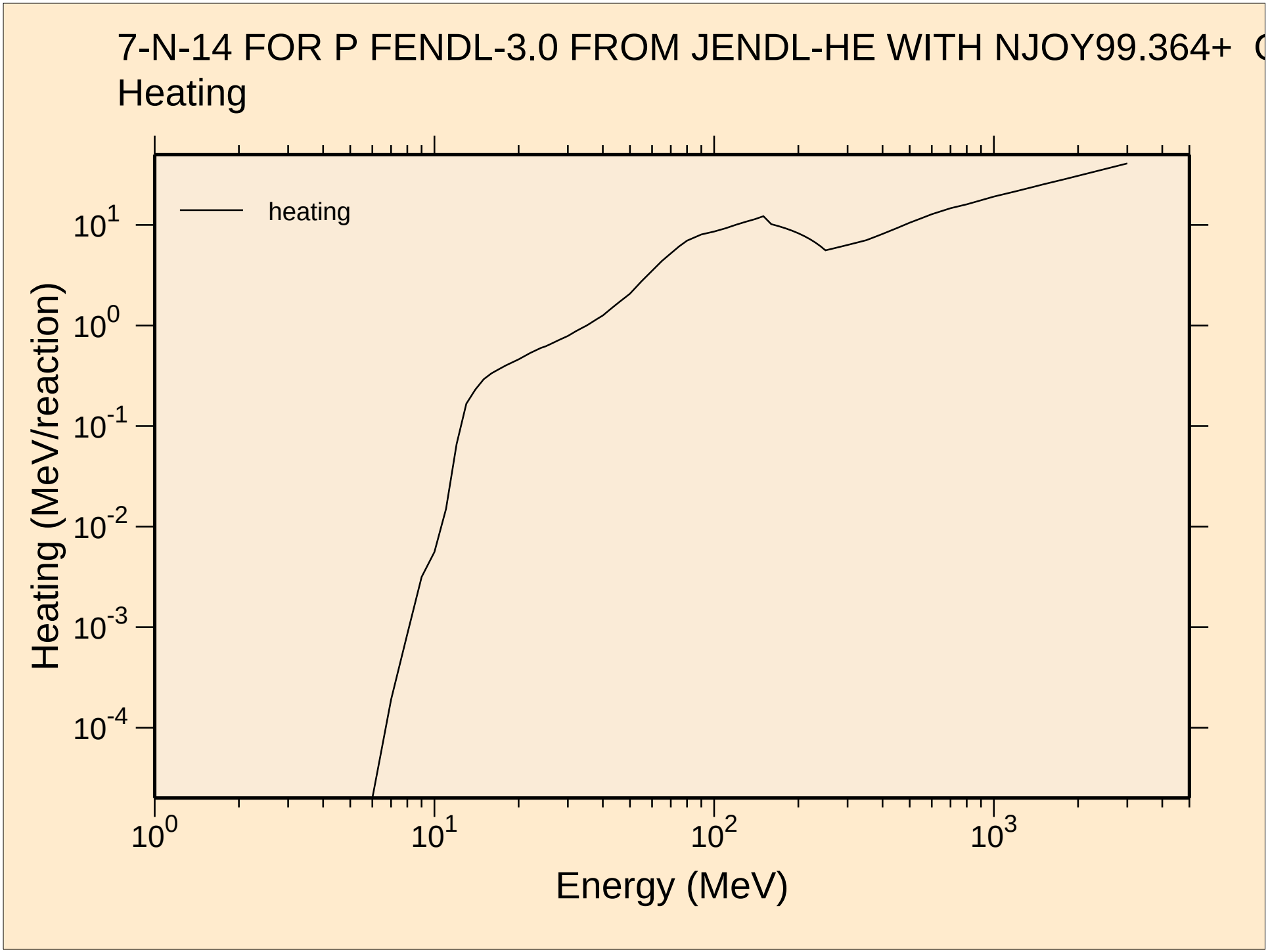
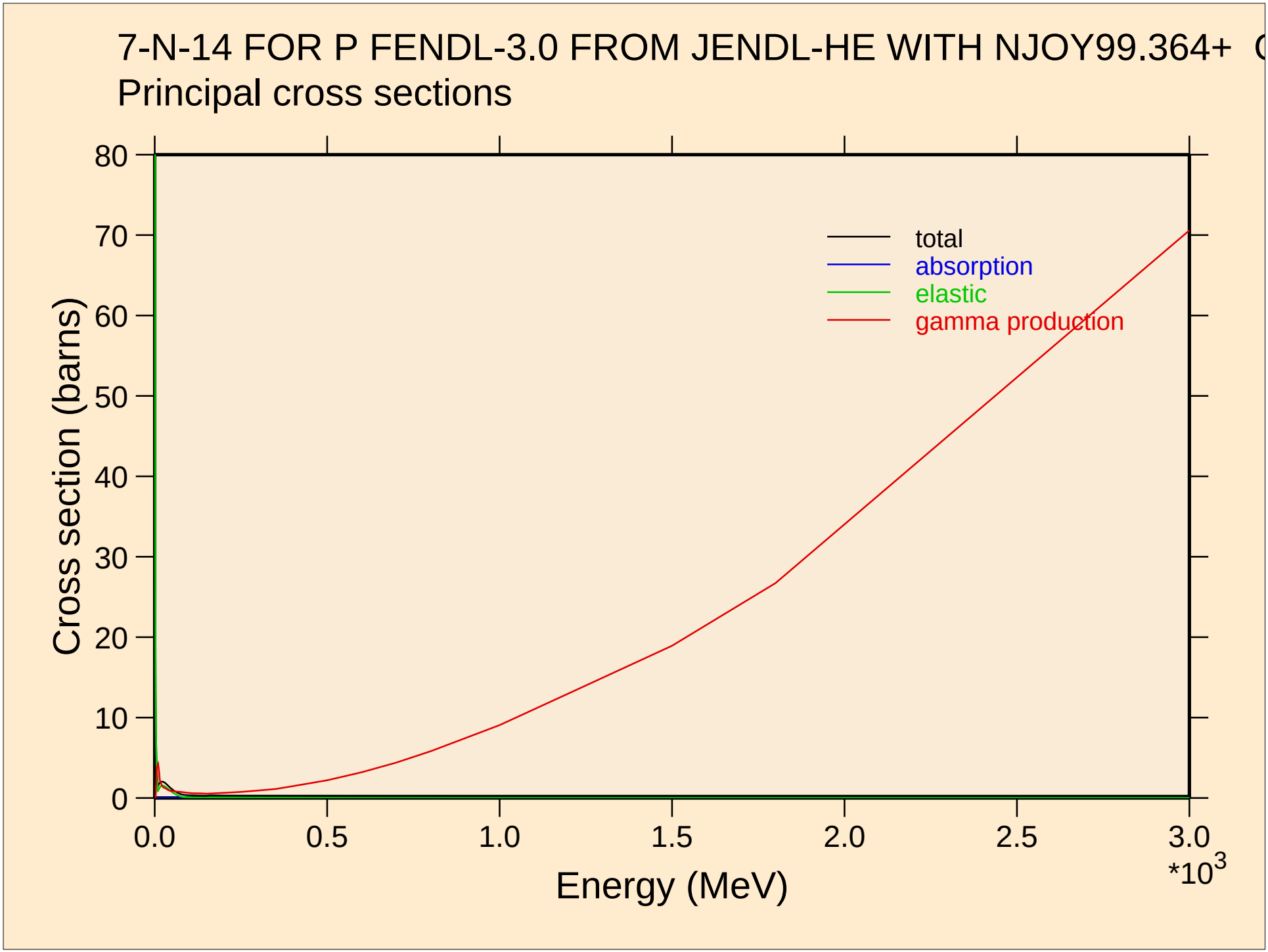
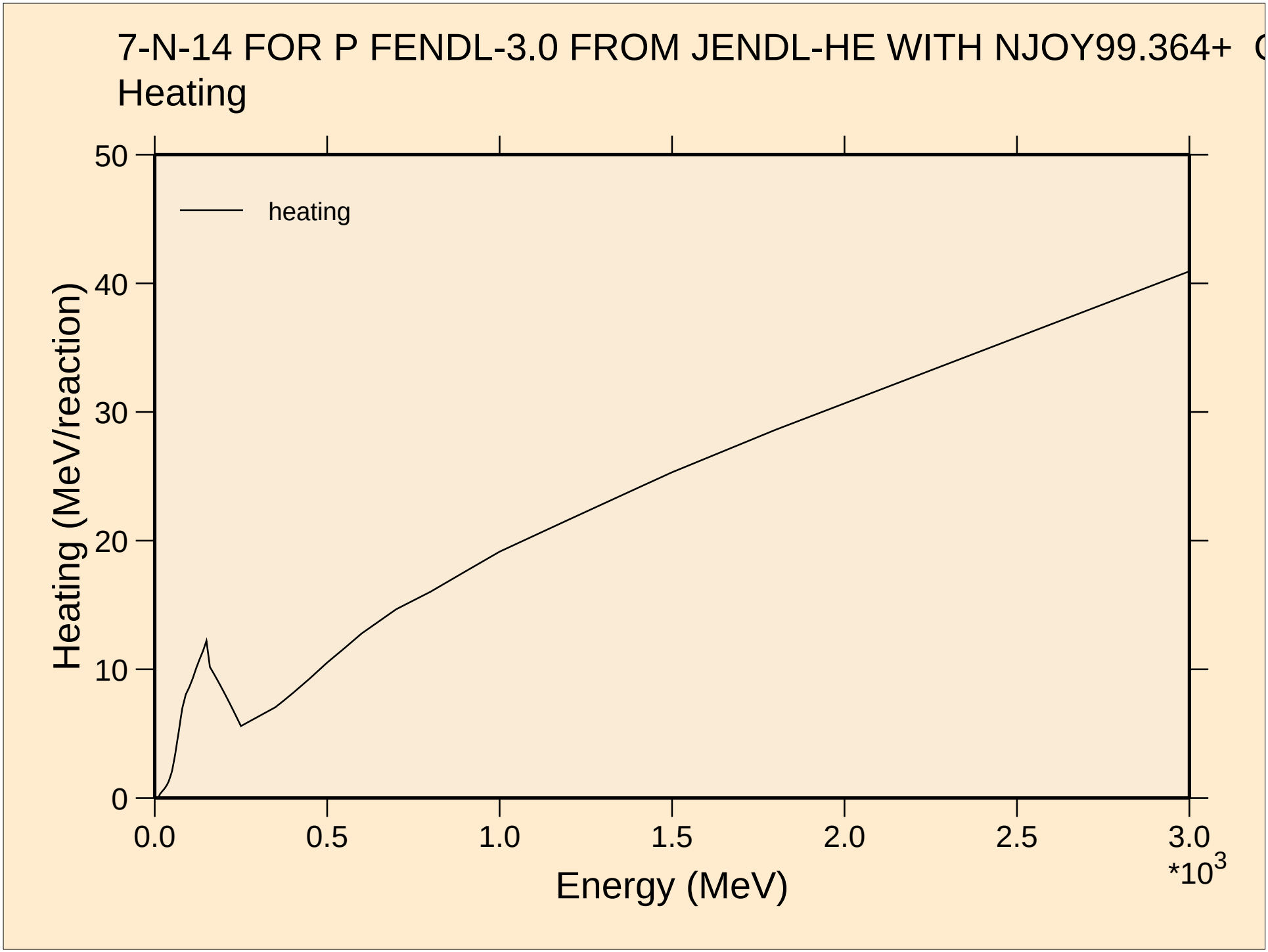
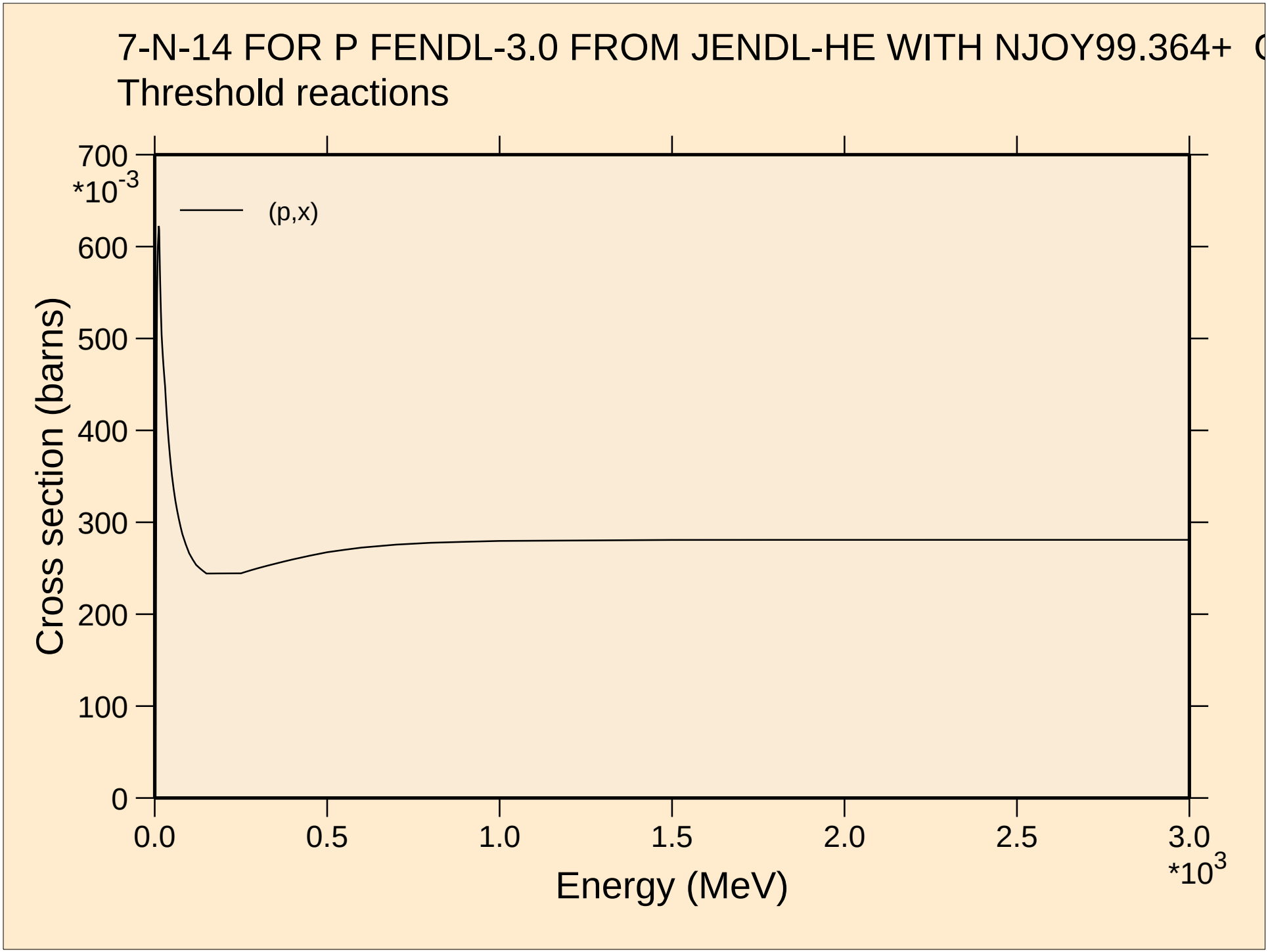
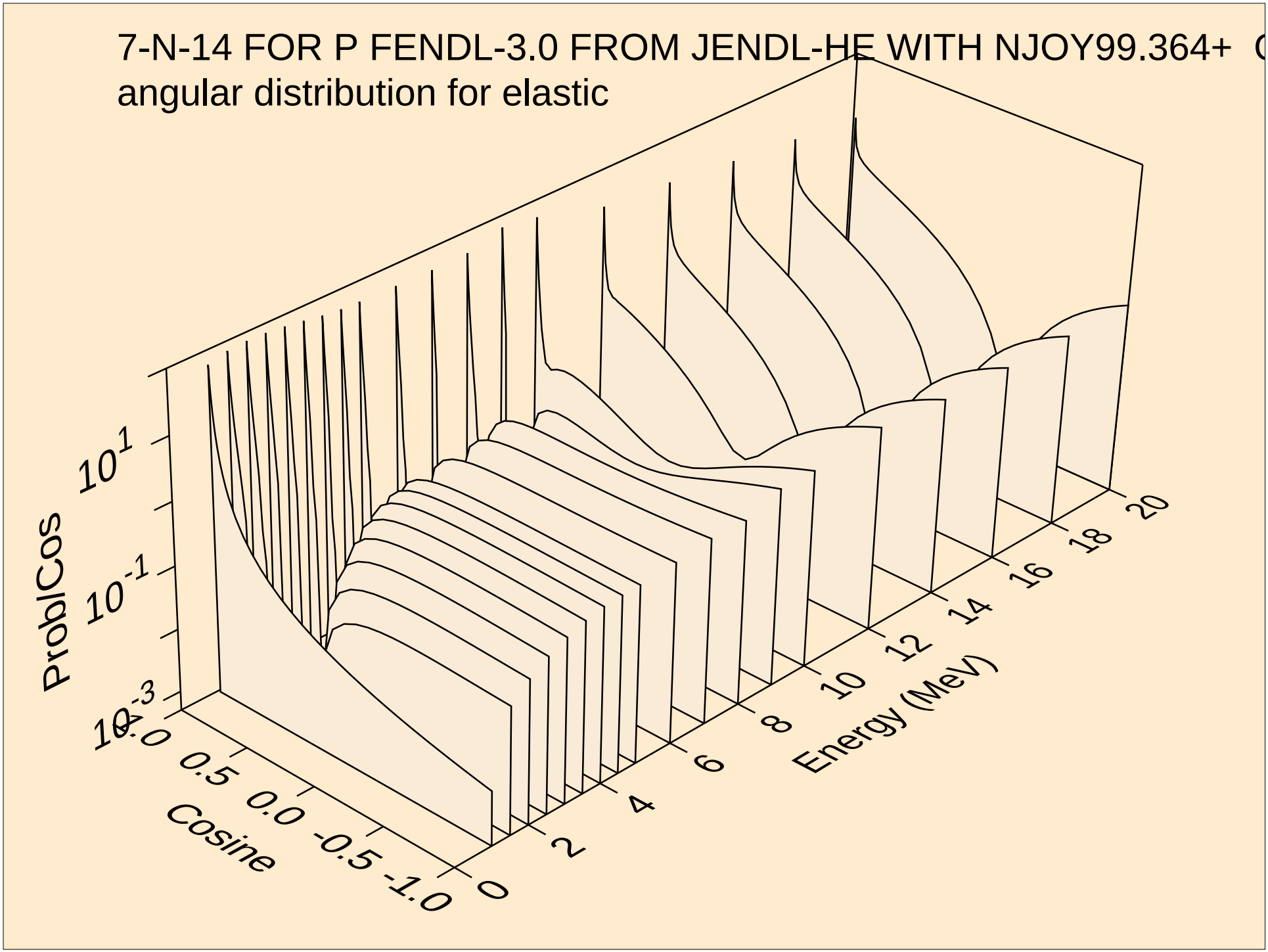

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production

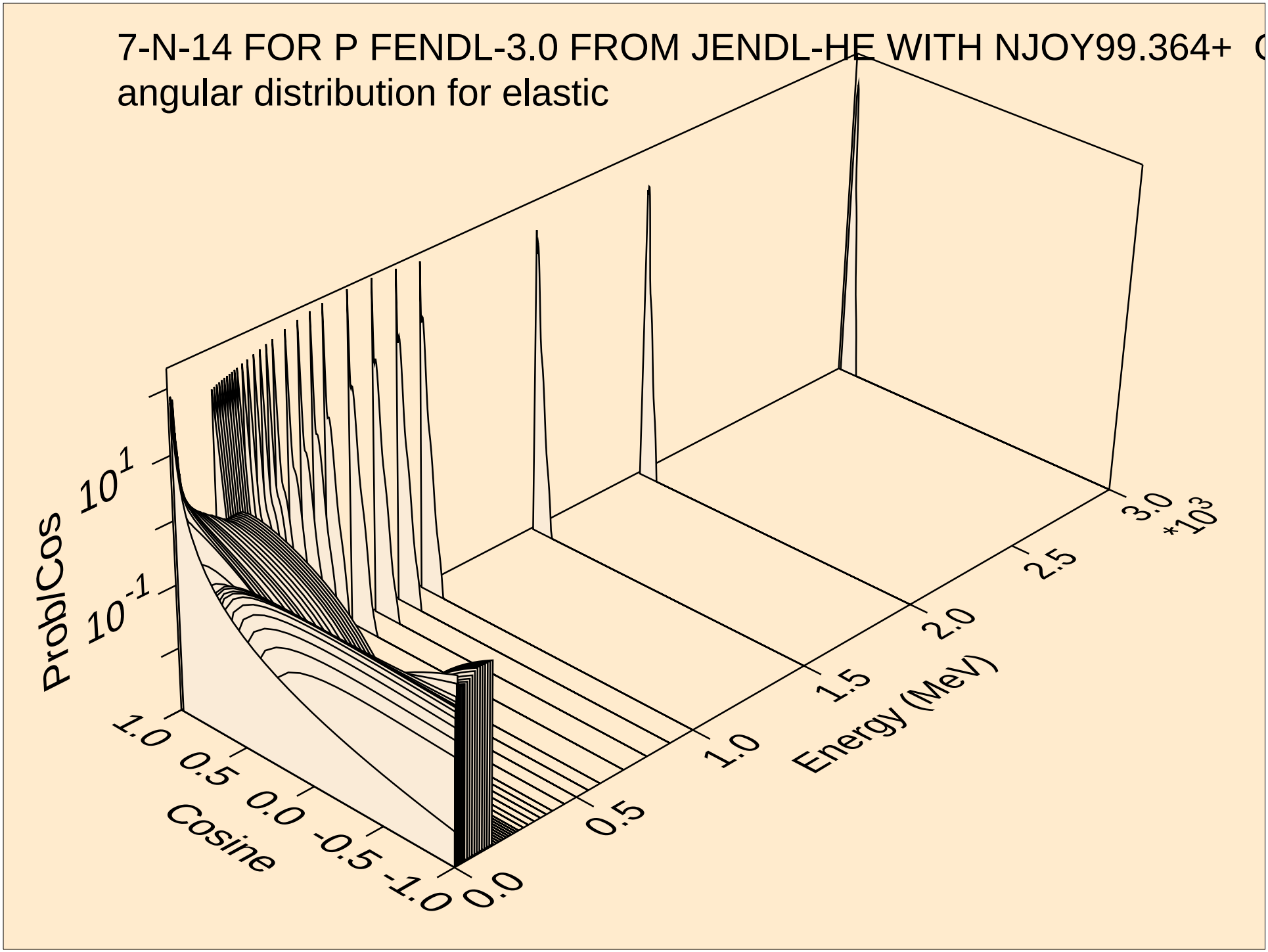

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^0
10^1
10^2
10^3

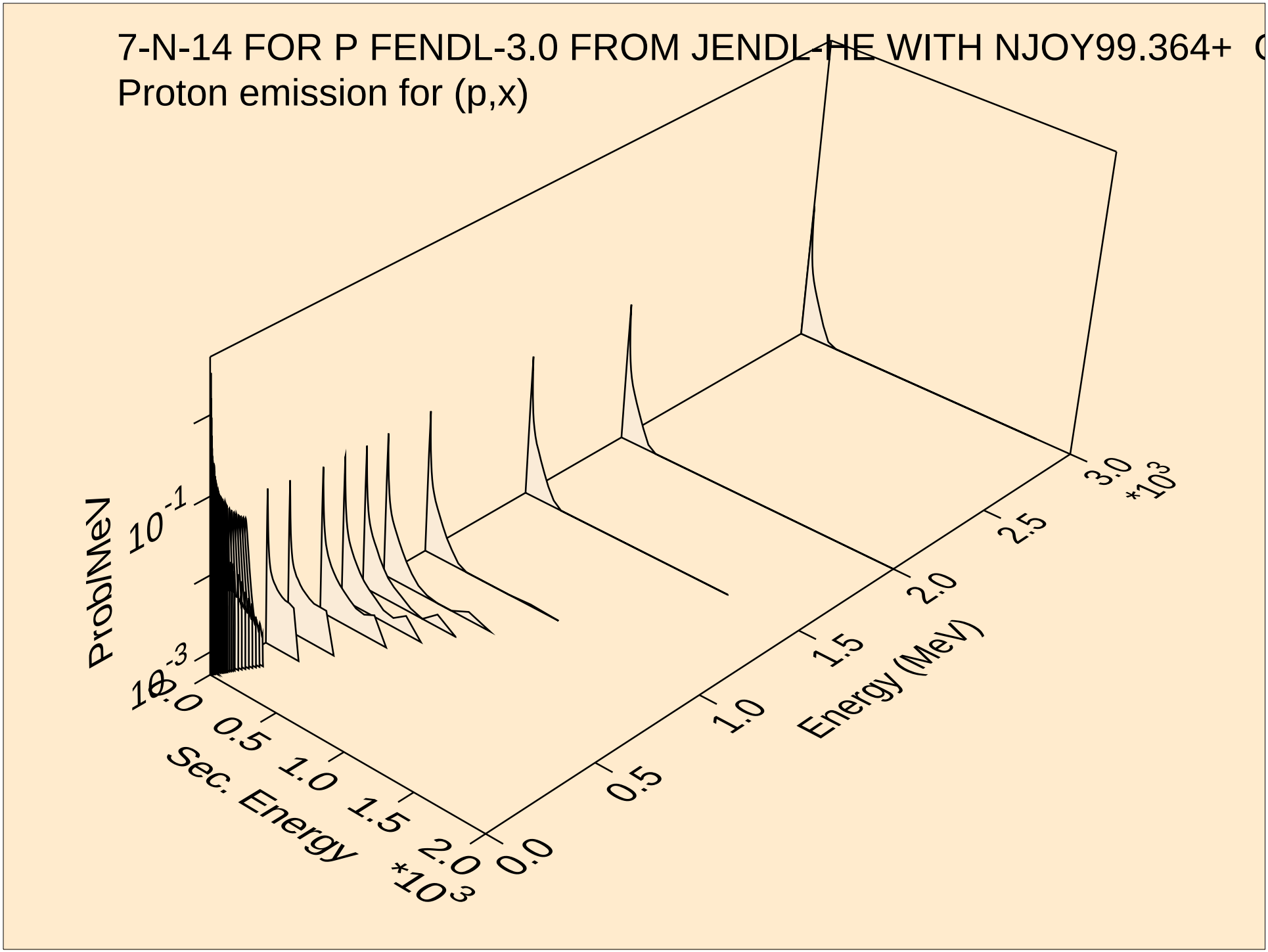

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+
Principal cross sections
Cross section (barns)
Energy (MeV)
*10^3
total
absorption
elastic
gamma production
0
10
20
30
40
50
60
70
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0

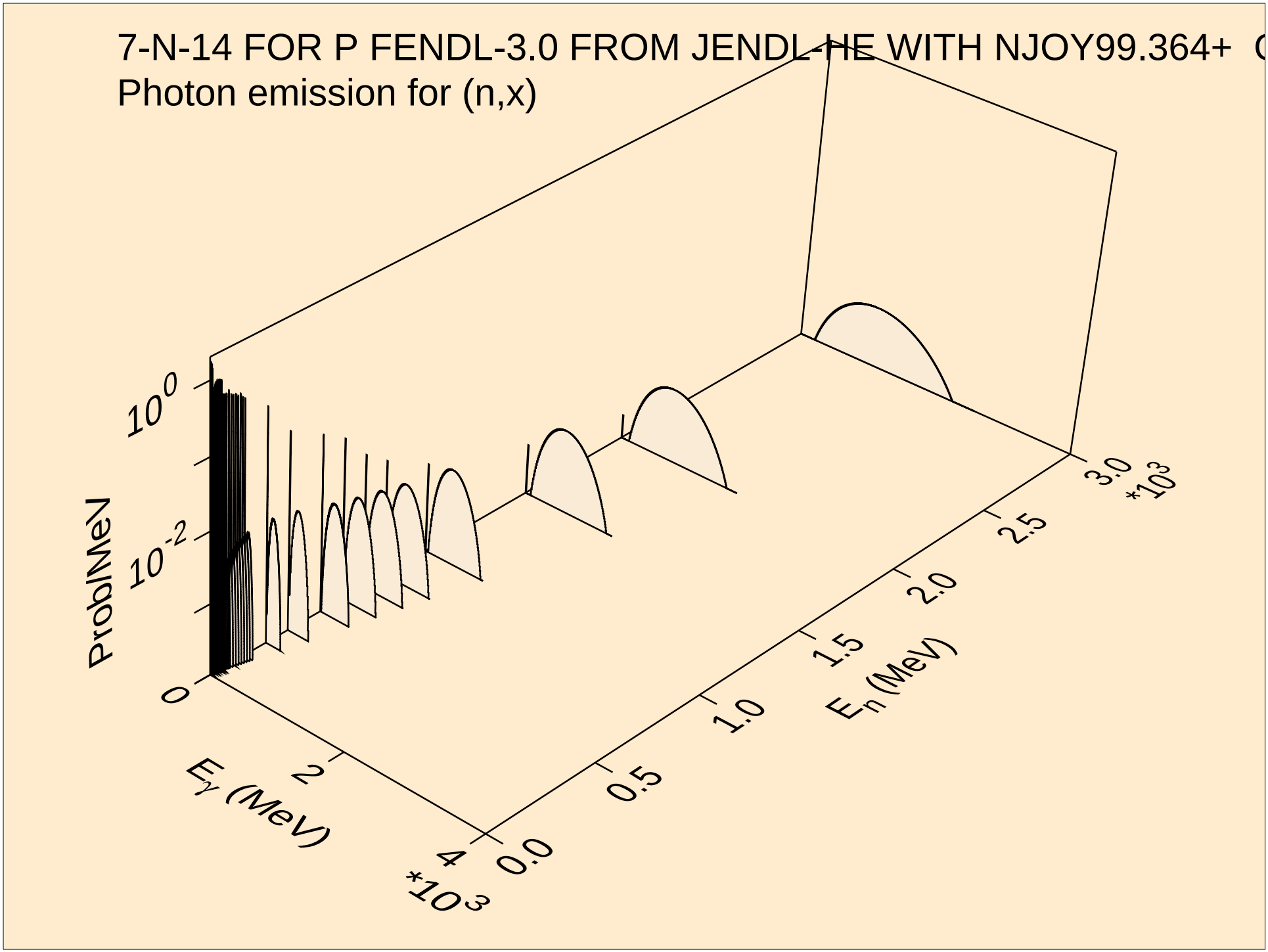

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
Heating
heating
Heating (MeV/reaction)
0
10
20
30
40
50
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*10^3
Energy (MeV)

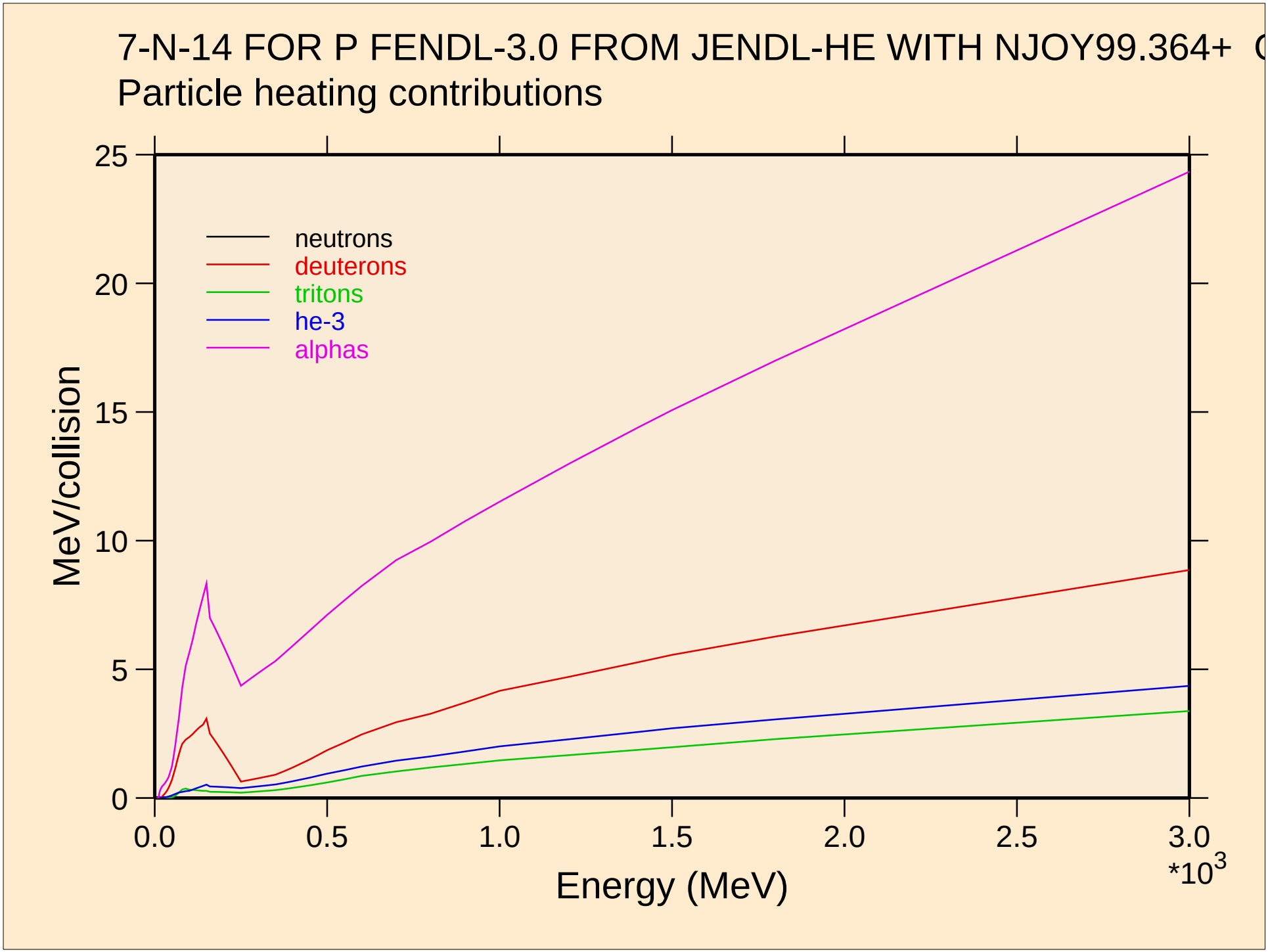

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+
Threshold reactions
(p,x)
Cross section (barns)
*10-3
700
600
500
400
300
200
100
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*10^3
Energy (MeV)

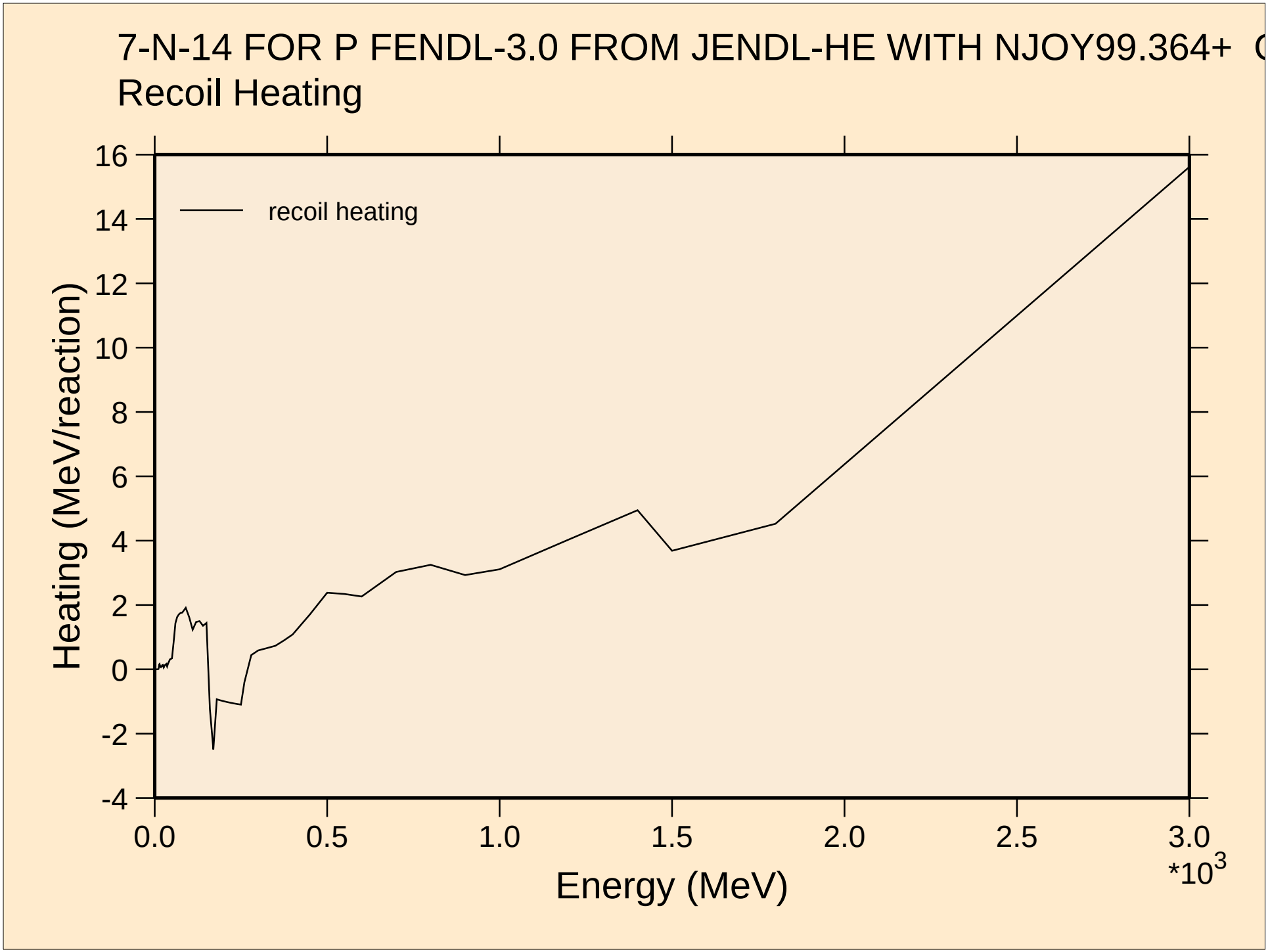

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
angular distribution for elastic
Prob\Cos
10^1
10^-1
10^-3
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

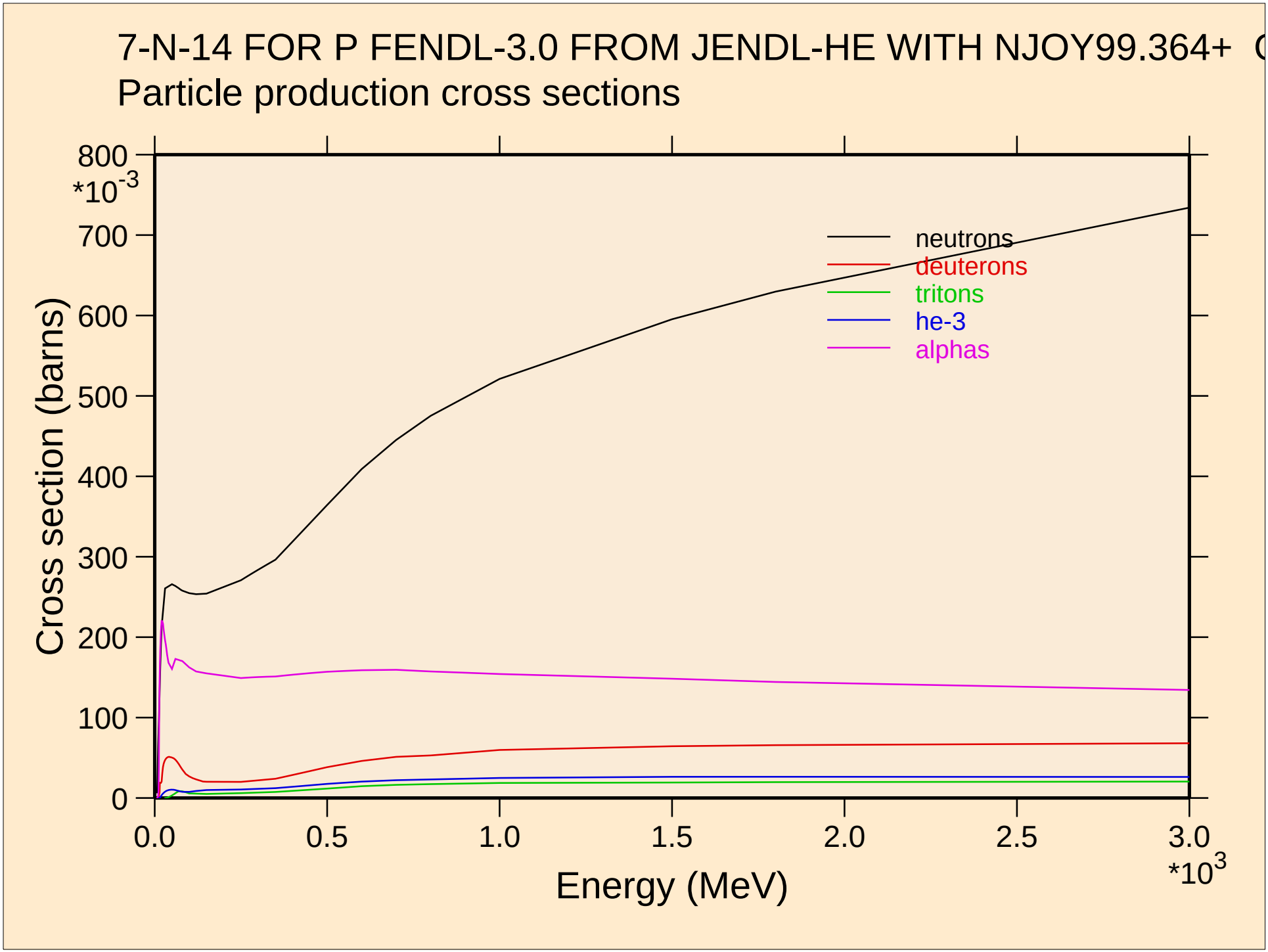

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*10^3
Energy (MeV)

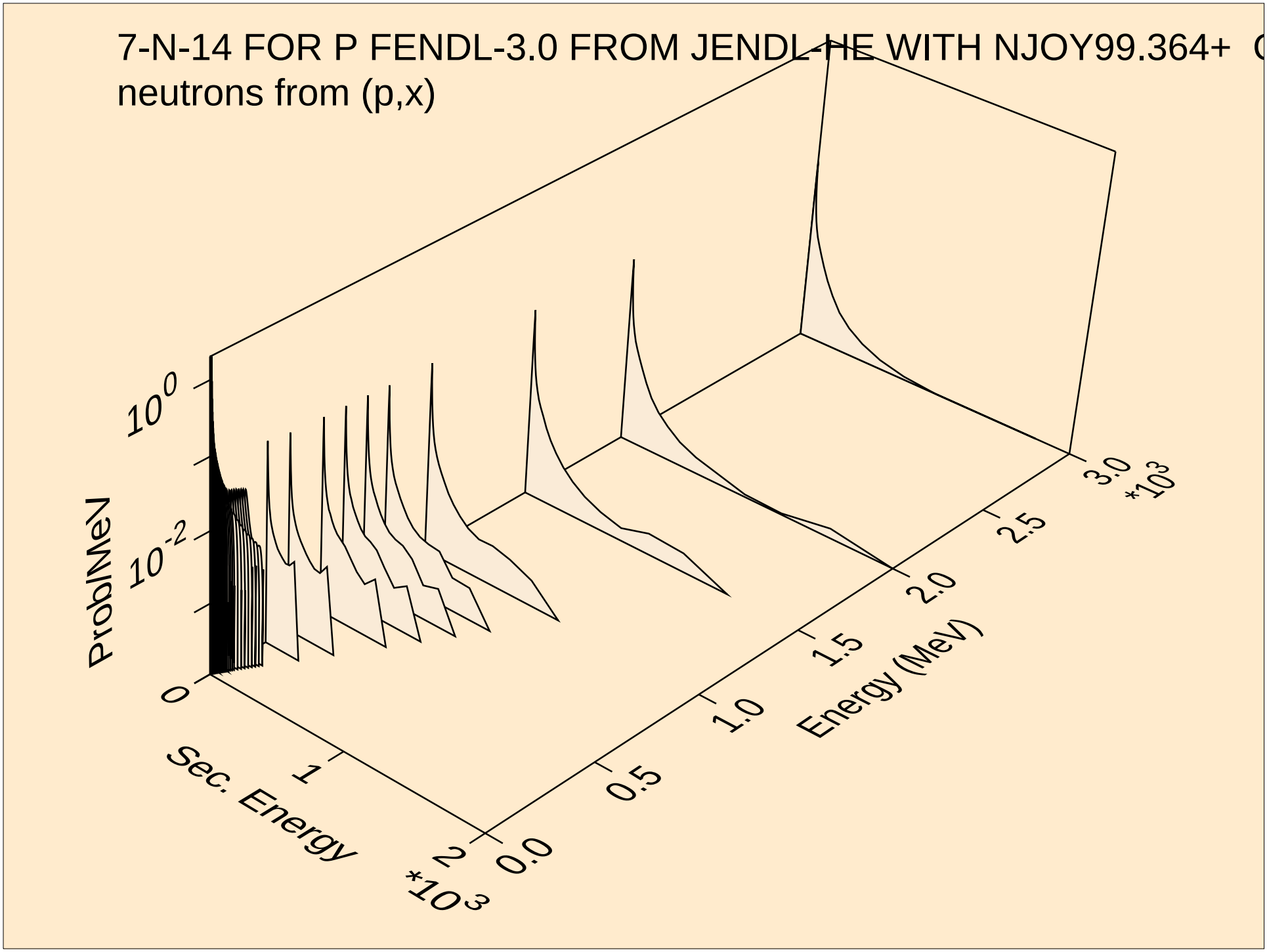

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
Proton emission for (p,x)
Prob/MeV
10-1
10-3
0.0
0.5
1.0
1.5
2.0
Sec. Energy *10³
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Energy (MeV) *10³

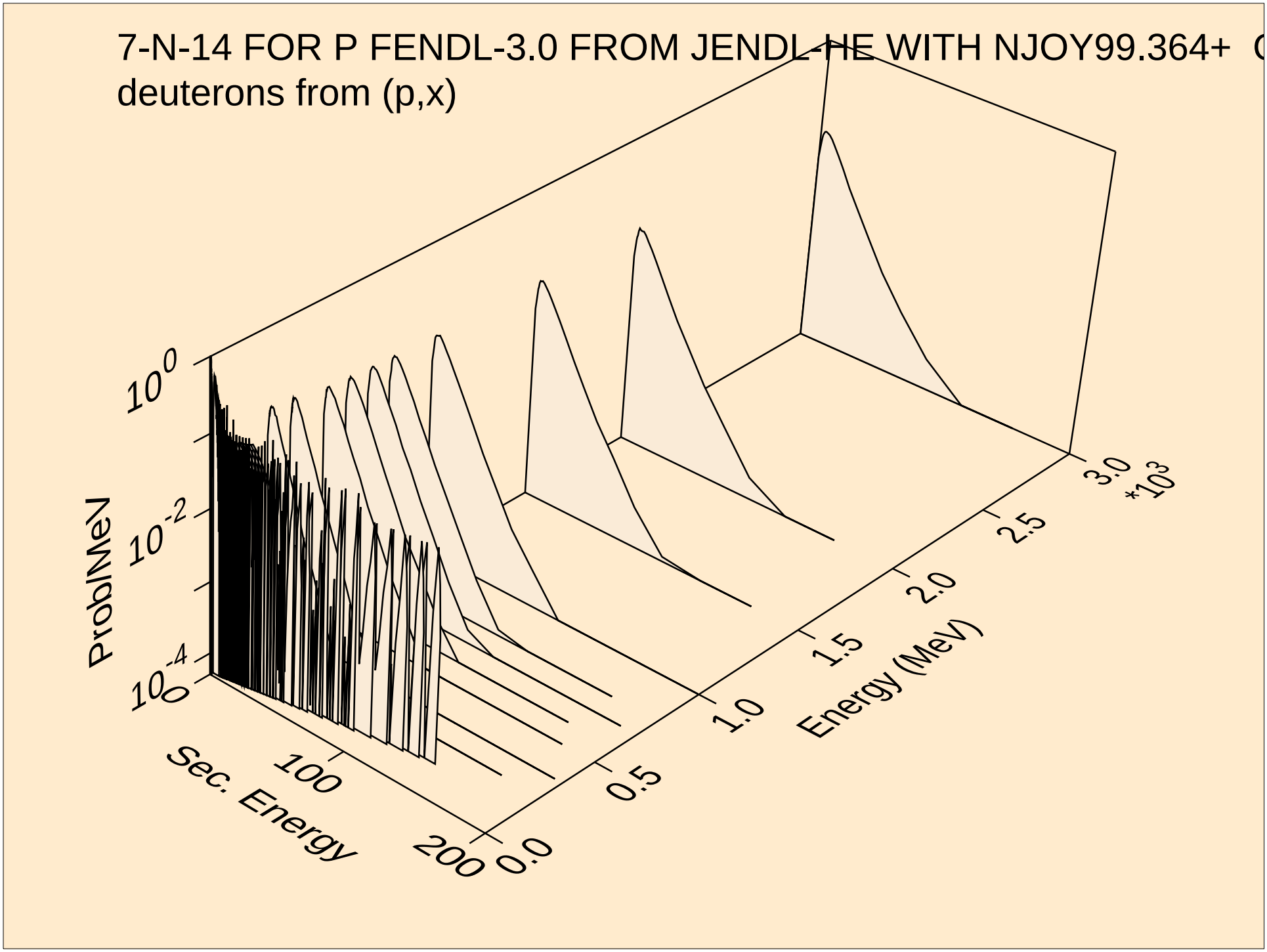

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+
Photon emission for (n,x)
Prob/MeV
$10^0$
$10^{-2}$
0
$E_\gamma$ (MeV)
2
4
*10$^3$
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*10$^3$
$E_n$ (MeV)

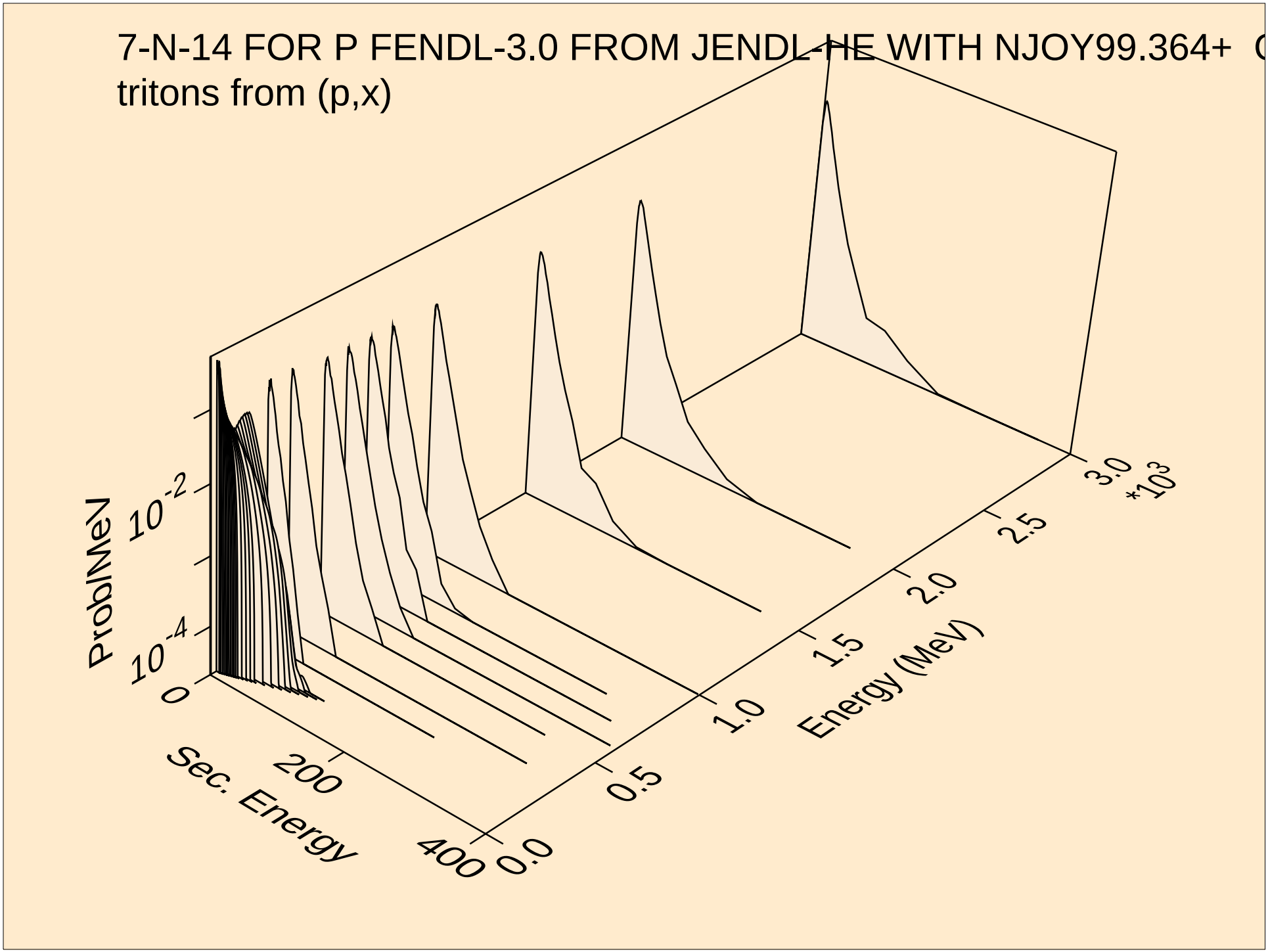

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
Particle heating contributions
neutrons
deuterons
tritons
he-3
alphas
MeV/collision
0
5
10
15
20
25
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*10^3
Energy (MeV)

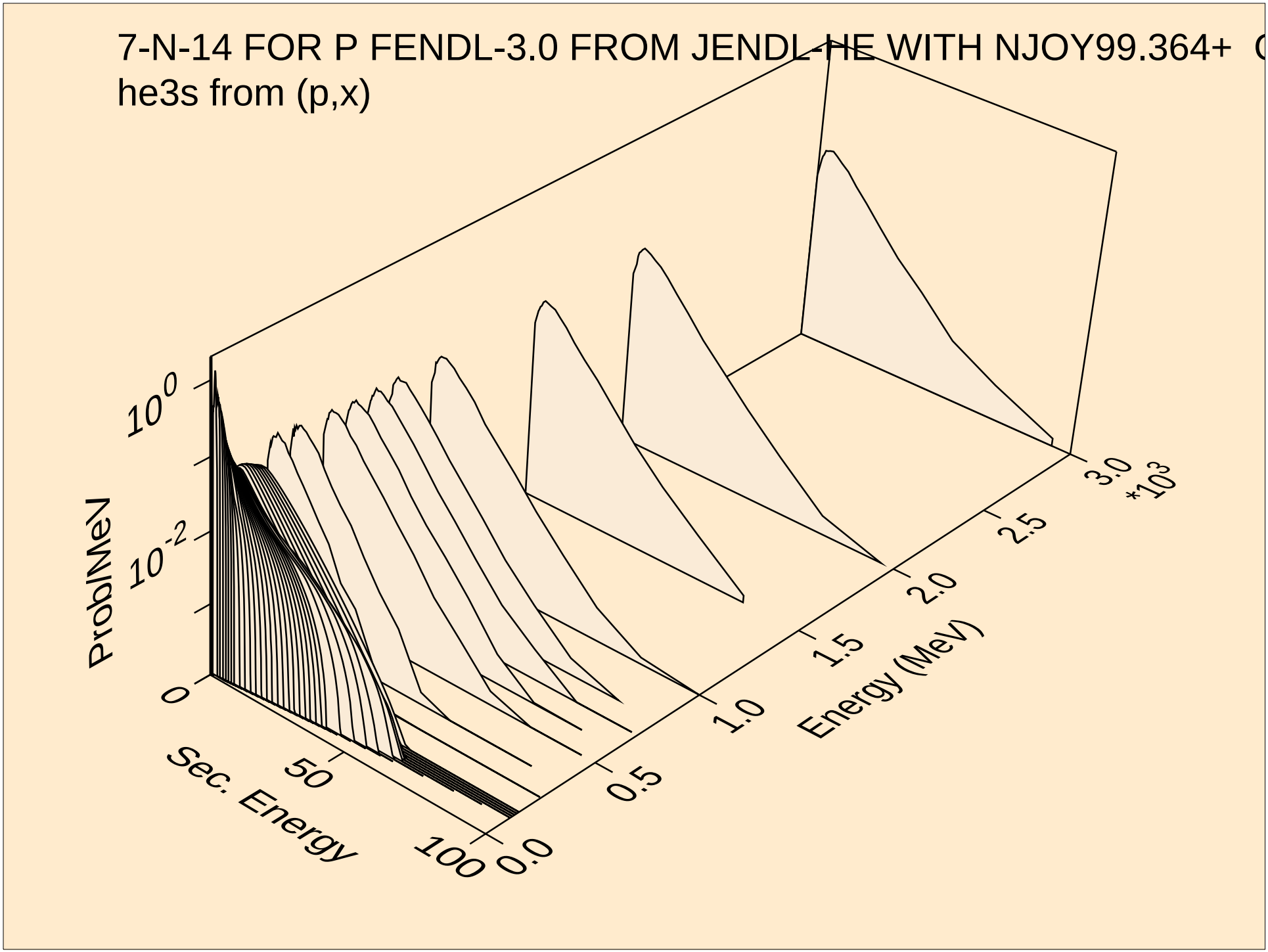

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
Recoil Heating
recoil heating
Heating (MeV/reaction)
16
14
12
10
8
6
4
2
0
-2
-4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*10^3
Energy (MeV)

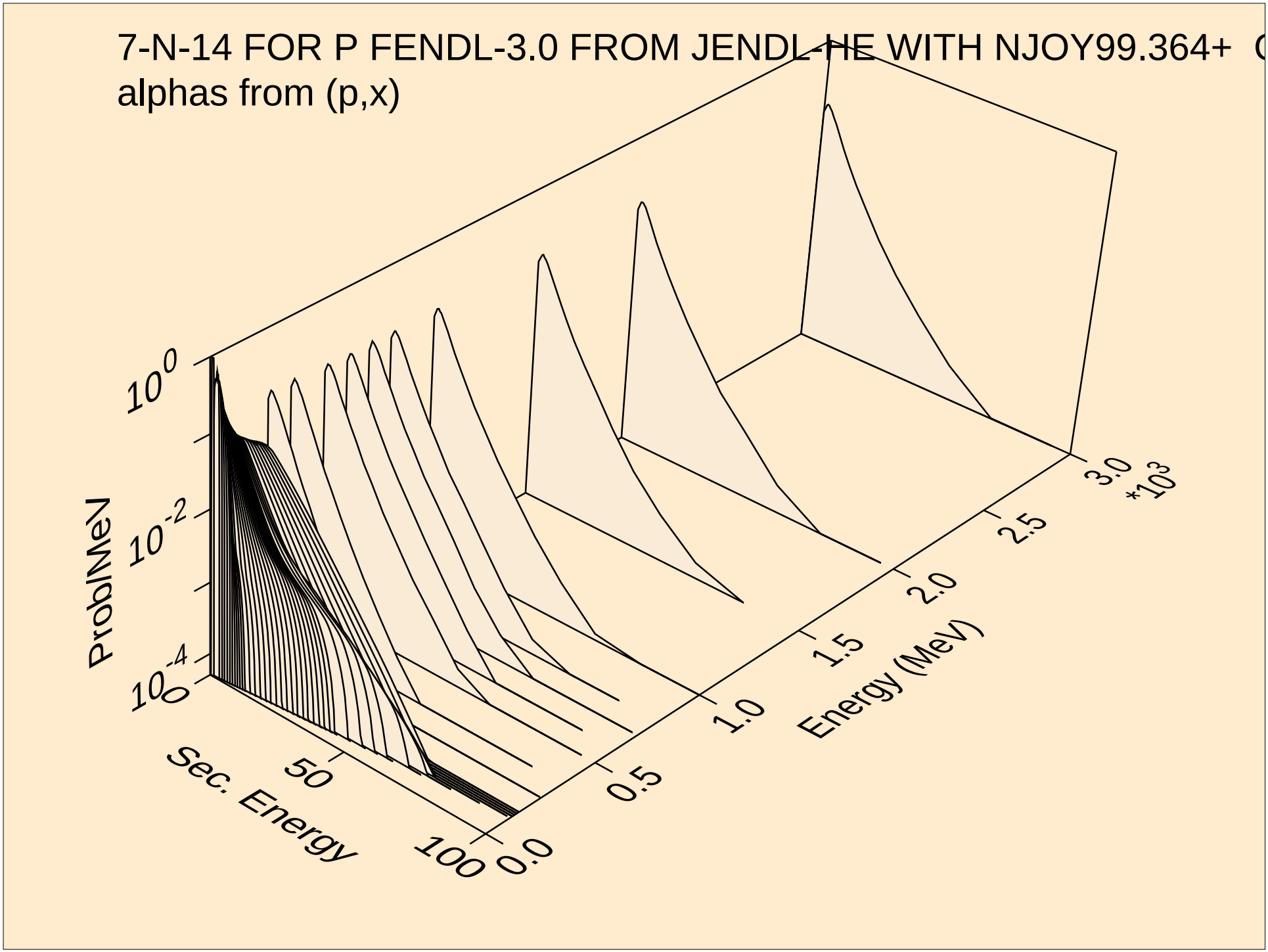

7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+
Particle production cross sections
Cross section (barns)
*10-3
800
700
600
500
400
300
200
100
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*10^3
Energy (MeV)
neutrons
deuterons
tritons
he-3
alphas


7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
neutrons from (p,x)
Prob/MeV
10^0
10^-2
0
Sec. Energy
1
2
*10^3
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*10^3
Energy (MeV)


7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
deuterons from (p,x)
Prob/MeV
$10^{0}$
$10^{-2}$
$10^{-4}$
Sec. Energy
0
100
200
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*$10^{3}$


7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
tritons from (p,x)
Prob/MeV
10-2
10-4
0
200
400
Sec. Energy
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*10³
Energy (MeV)


7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
he3s from (p,x)
Prob/MeV
$10^{0}$
$10^{-2}$
0
Sec. Energy
50
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*$10^{3}$
Energy (MeV)


7-N-14 FOR P FENDL-3.0 FROM JENDL-HE WITH NJOY99.364+ C
alphas from (p,x)
Prob/MeV
$10^{0}$
$10^{-2}$
$10^{-4}$
0
50
100
Sec. Energy
0.0
0.5
1.0
1.5
2.0
2.5
3.0
*$10^{3}$
Energy (MeV)