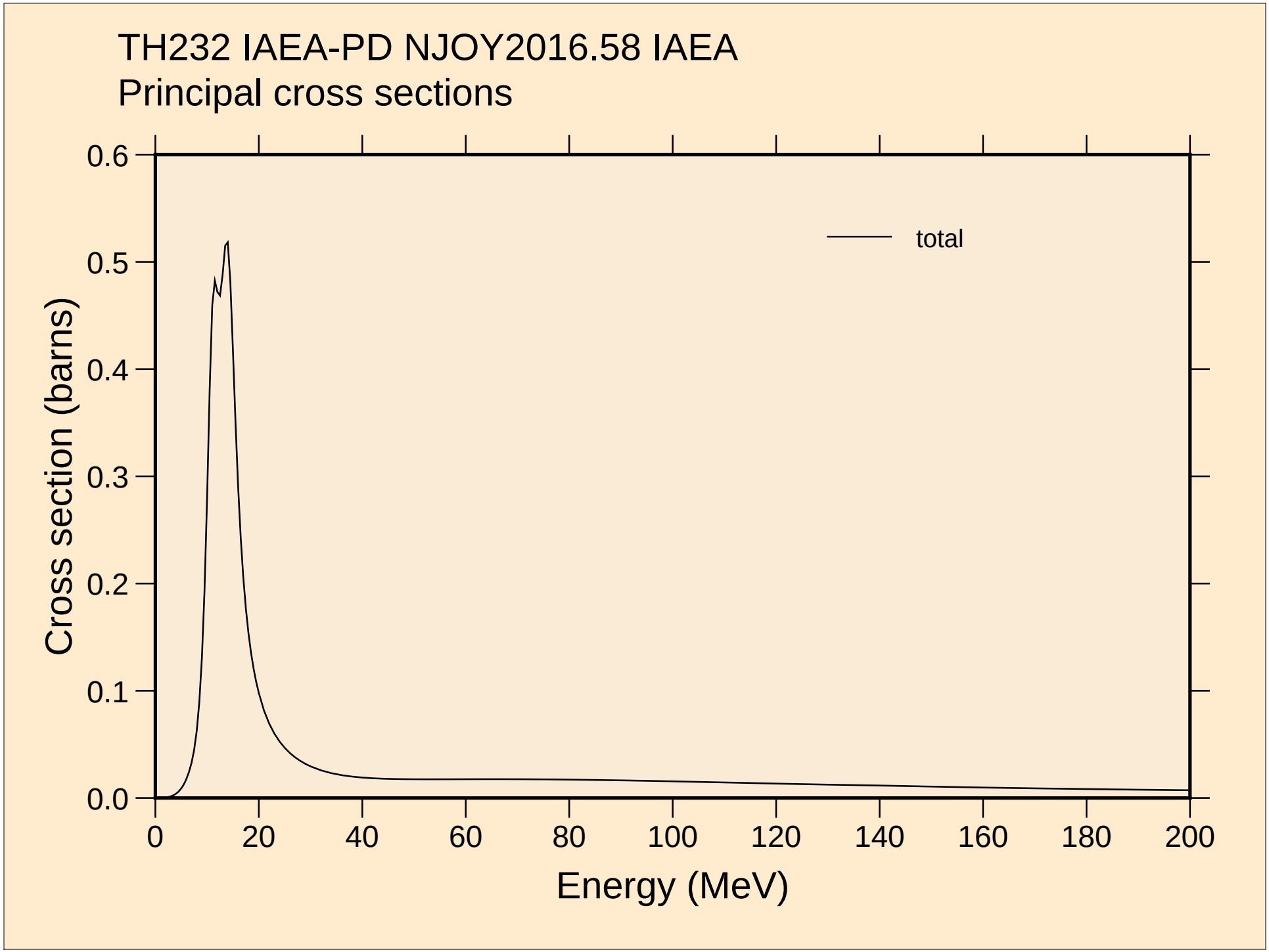
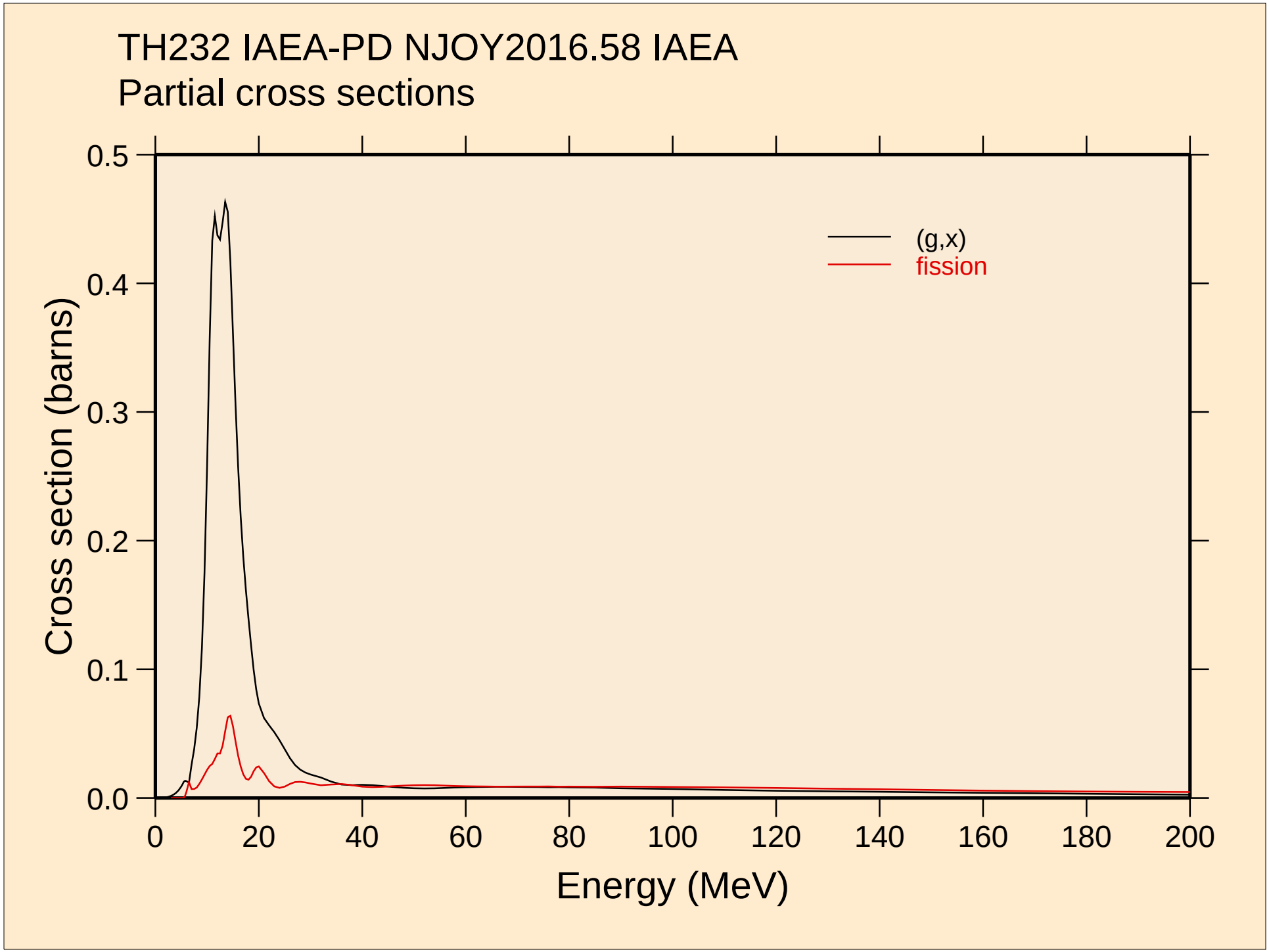
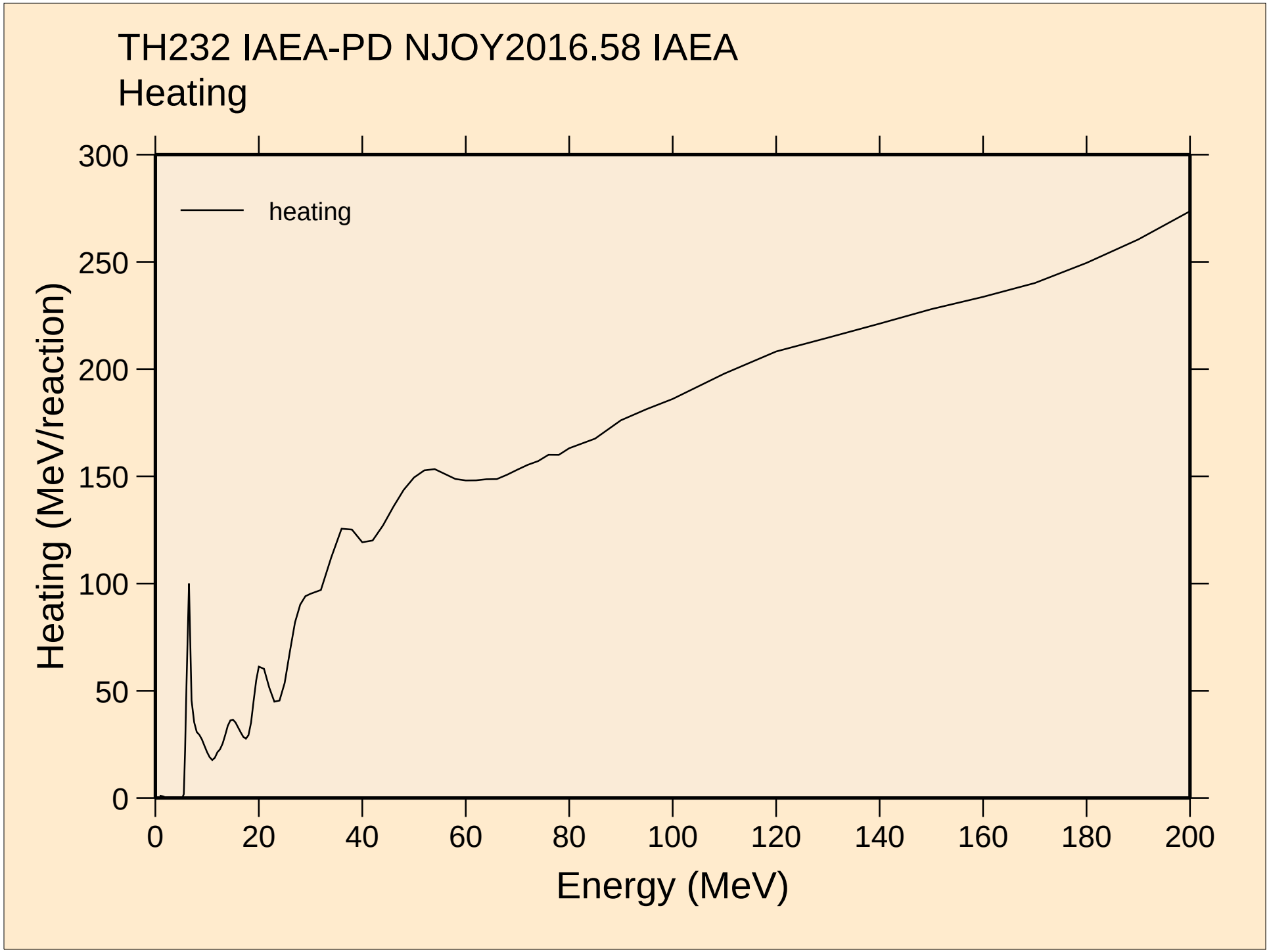
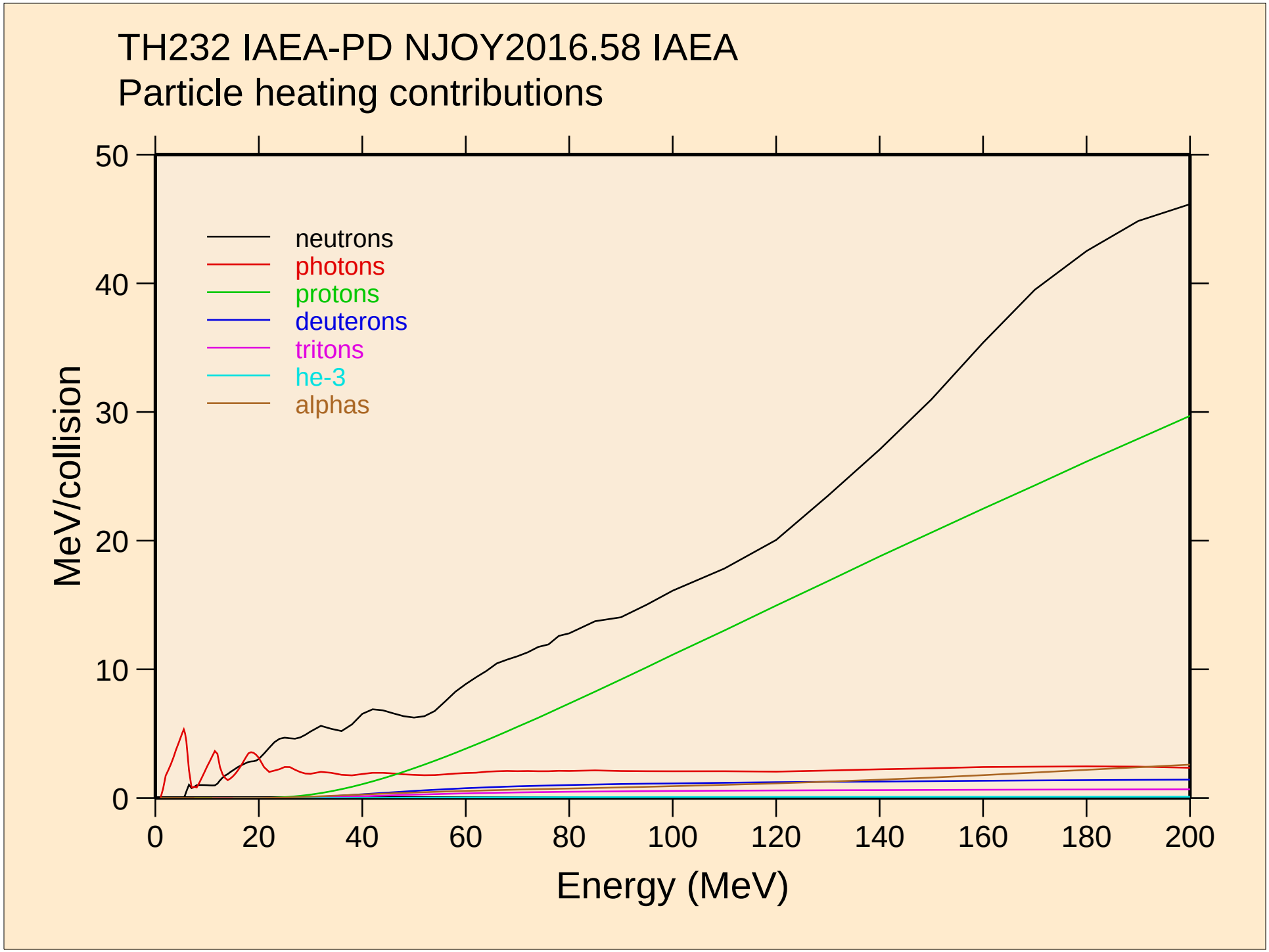
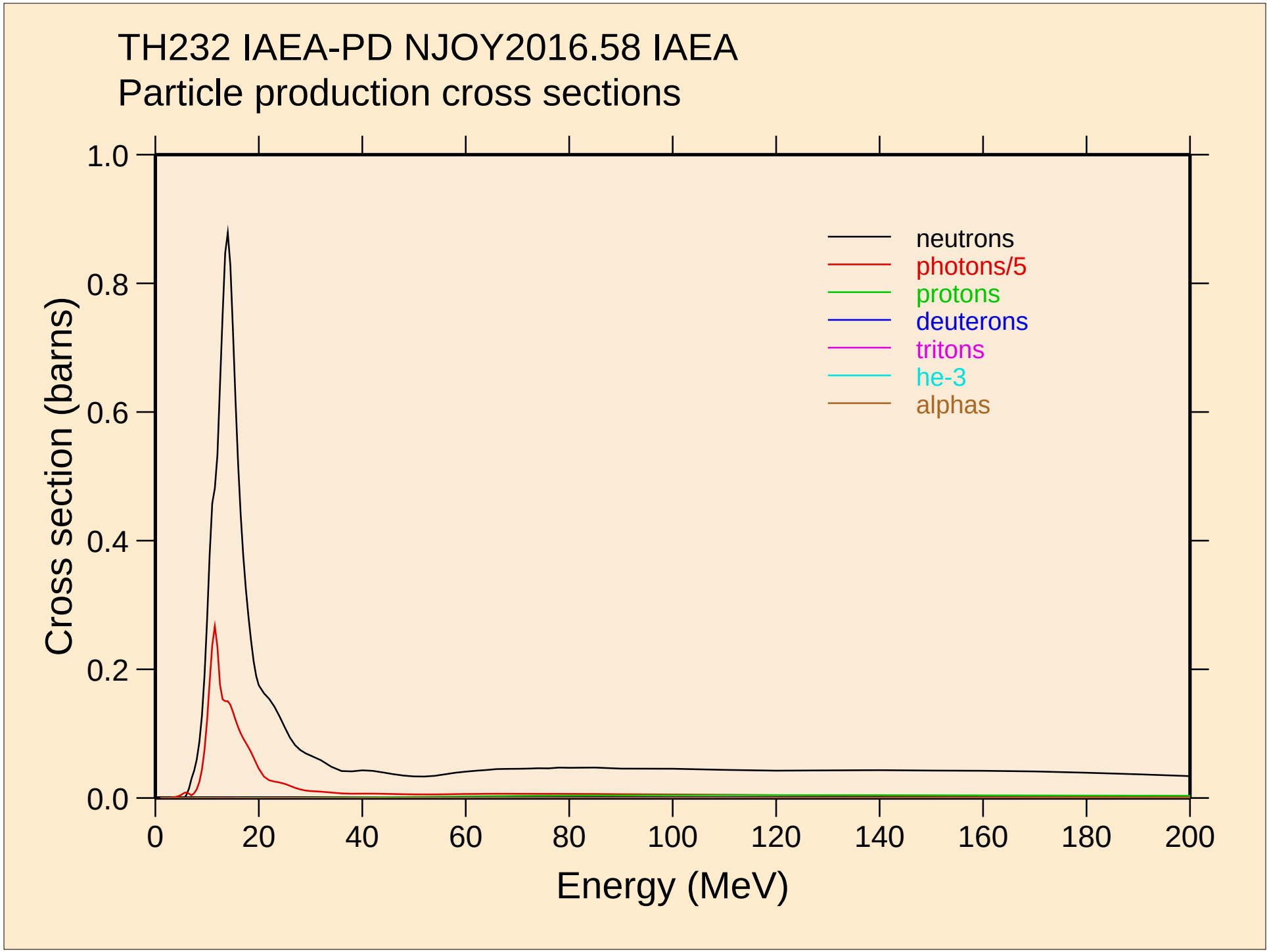
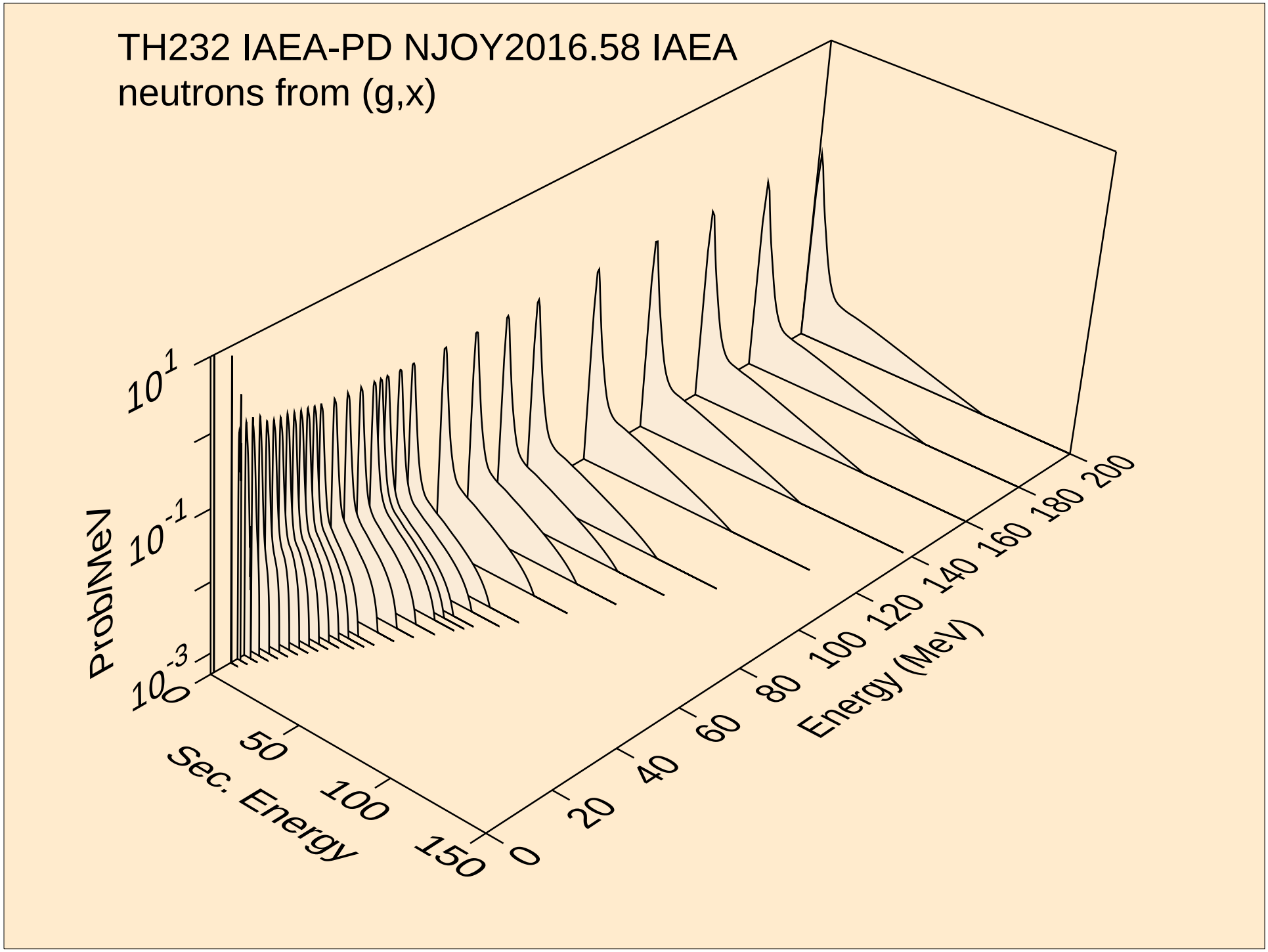

TH232 IAEA-PD NJOY2016.58 IAEA
Principal cross sections
total
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

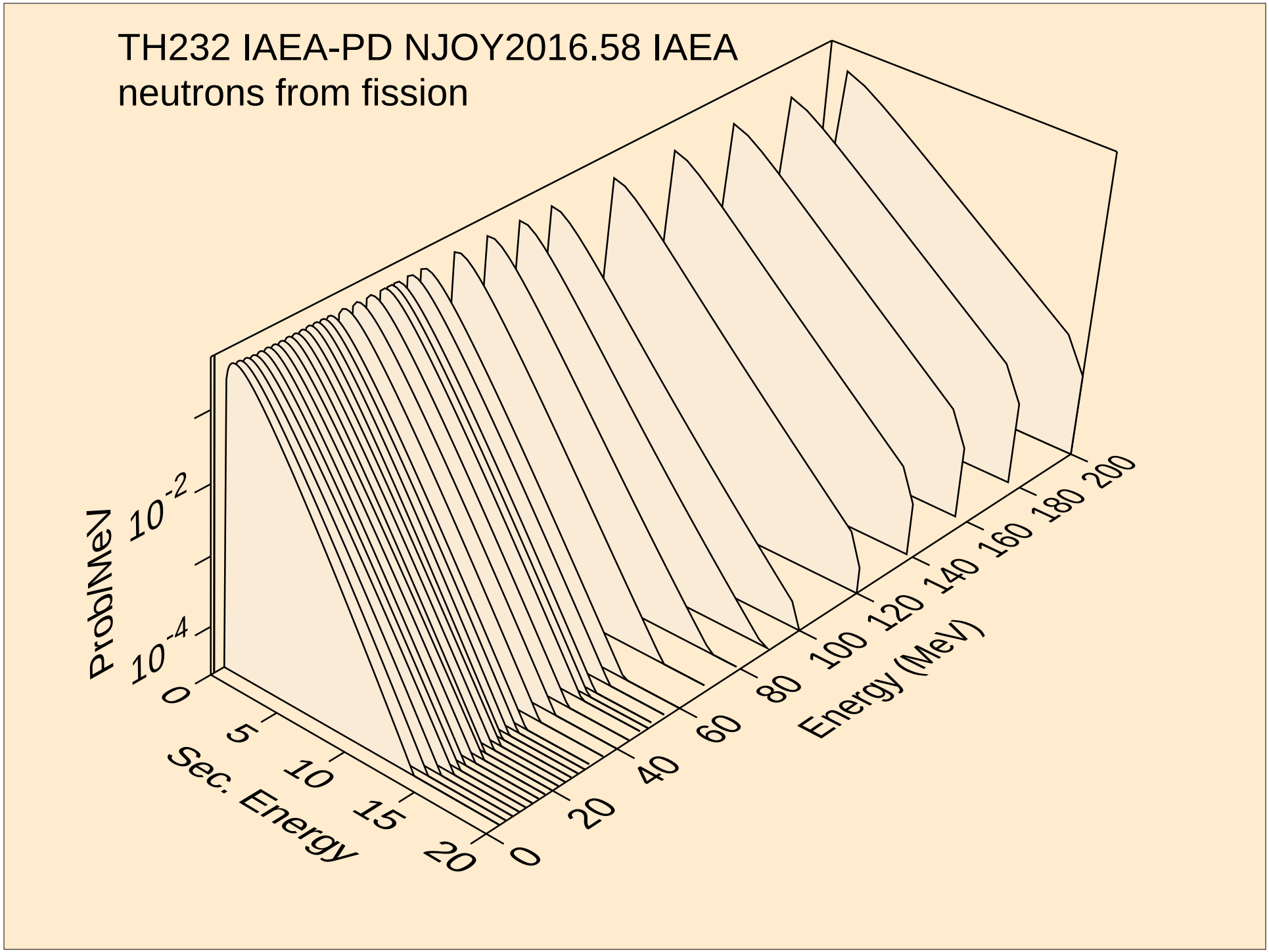

TH232 IAEA-PD NJOY2016.58 IAEA
Partial cross sections
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)
(g,x)
fission

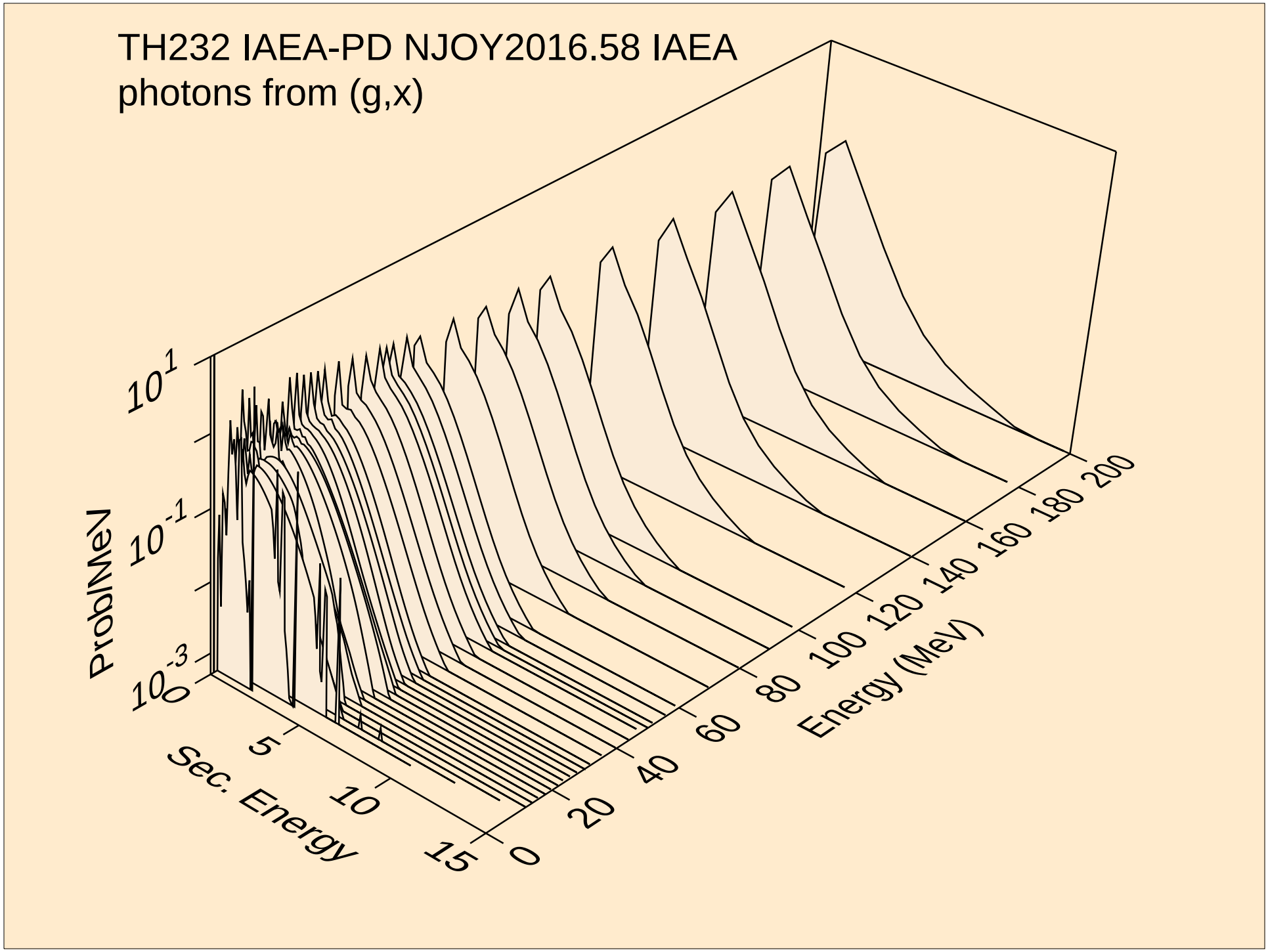

TH232 IAEA-PD NJOY2016.58 IAEA
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
50
100
150
200
250
300
0
20
40
60
80
100
120
140
160
180
200

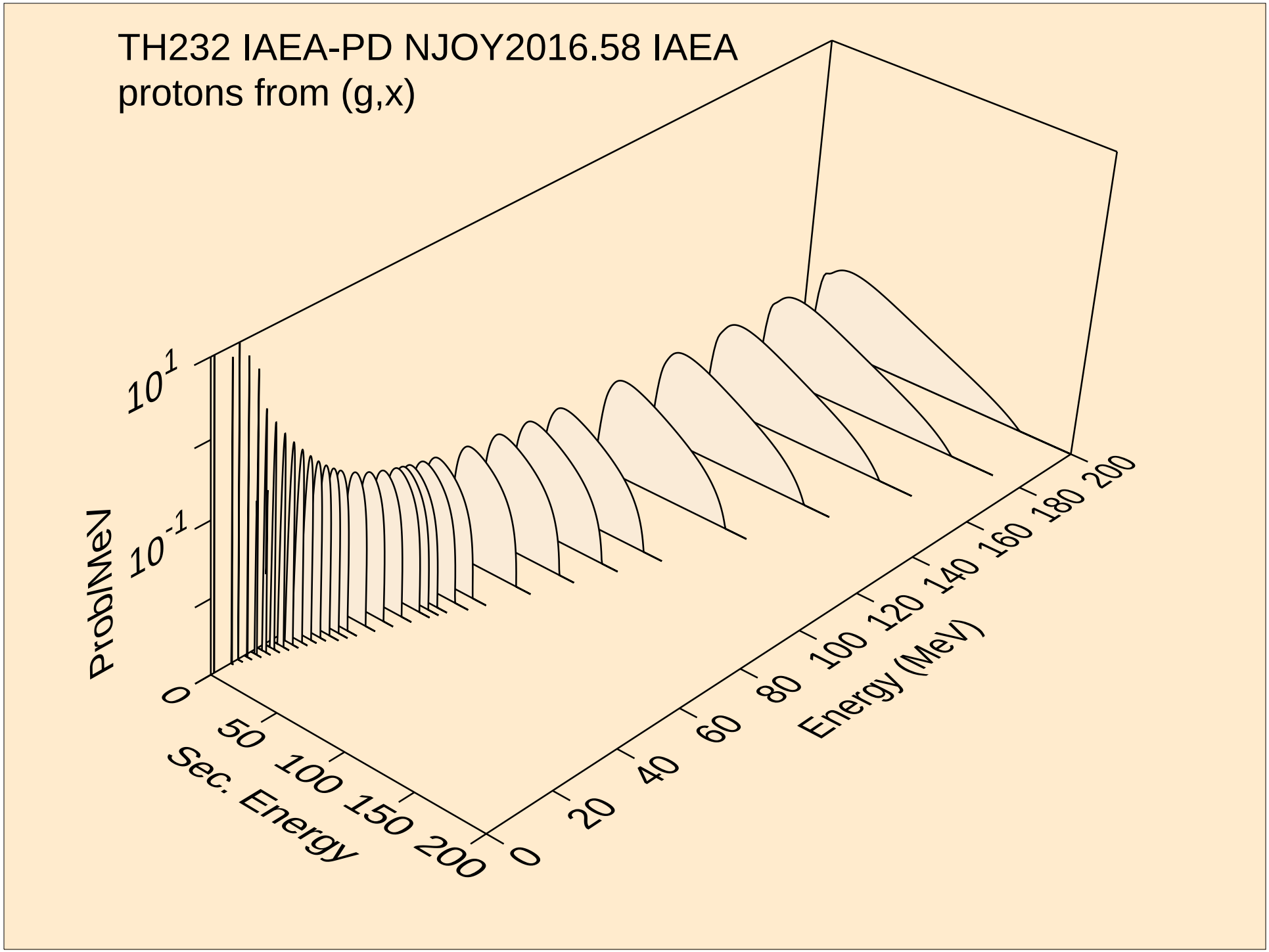

TH232 IAEA-PD NJOY2016.58 IAEA
Particle heating contributions
neutrons
photons
protons
deuterons
tritons
he-3
alphas
MeV/collision
Energy (MeV)
0
10
20
30
40
50
0
20
40
60
80
100
120
140
160
180
200

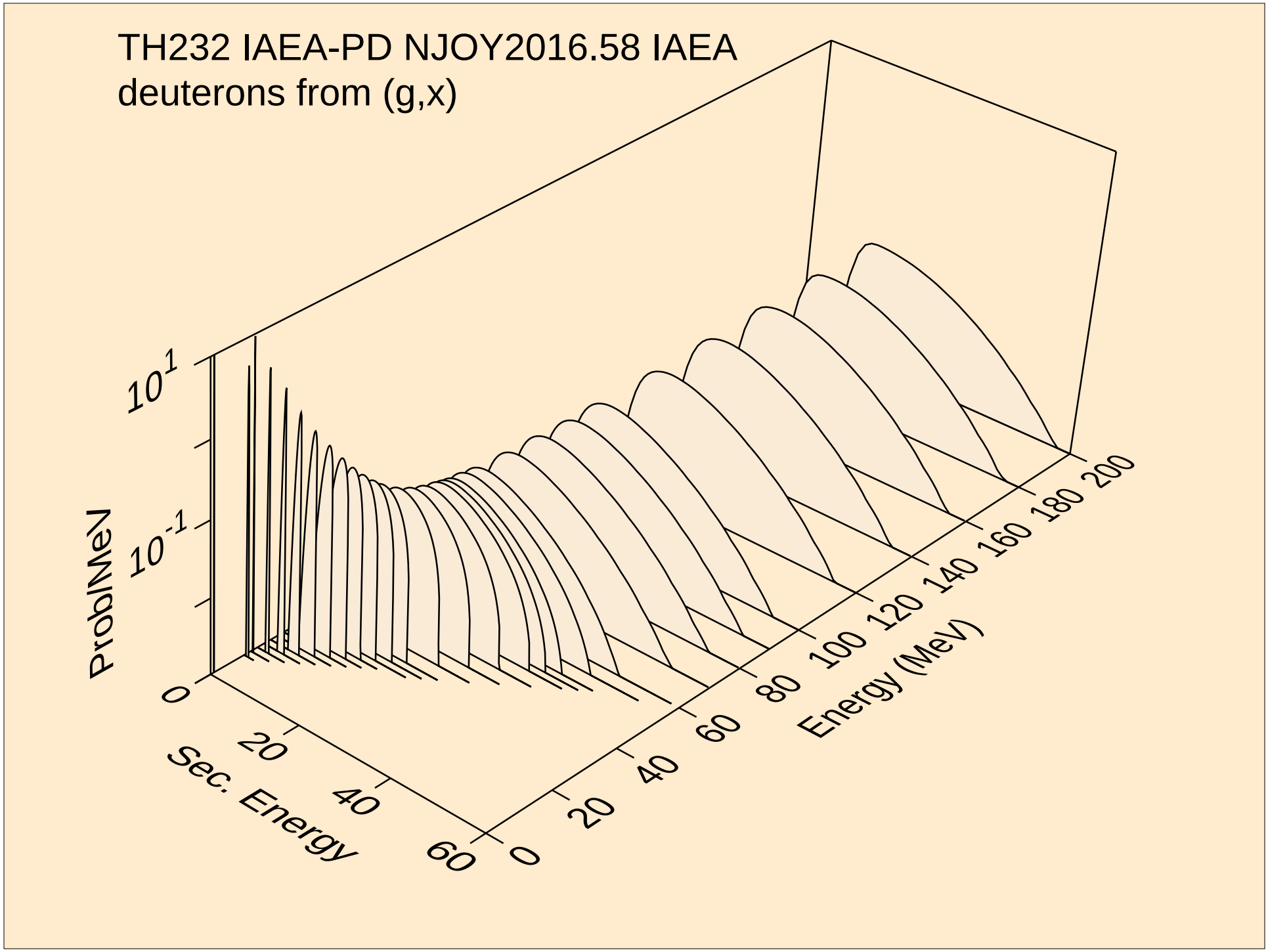

TH232 IAEA-PD NJOY2016.58 IAEA
Particle production cross sections
Cross section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)
neutrons
photons/5
protons
deuterons
tritons
he-3
alphas

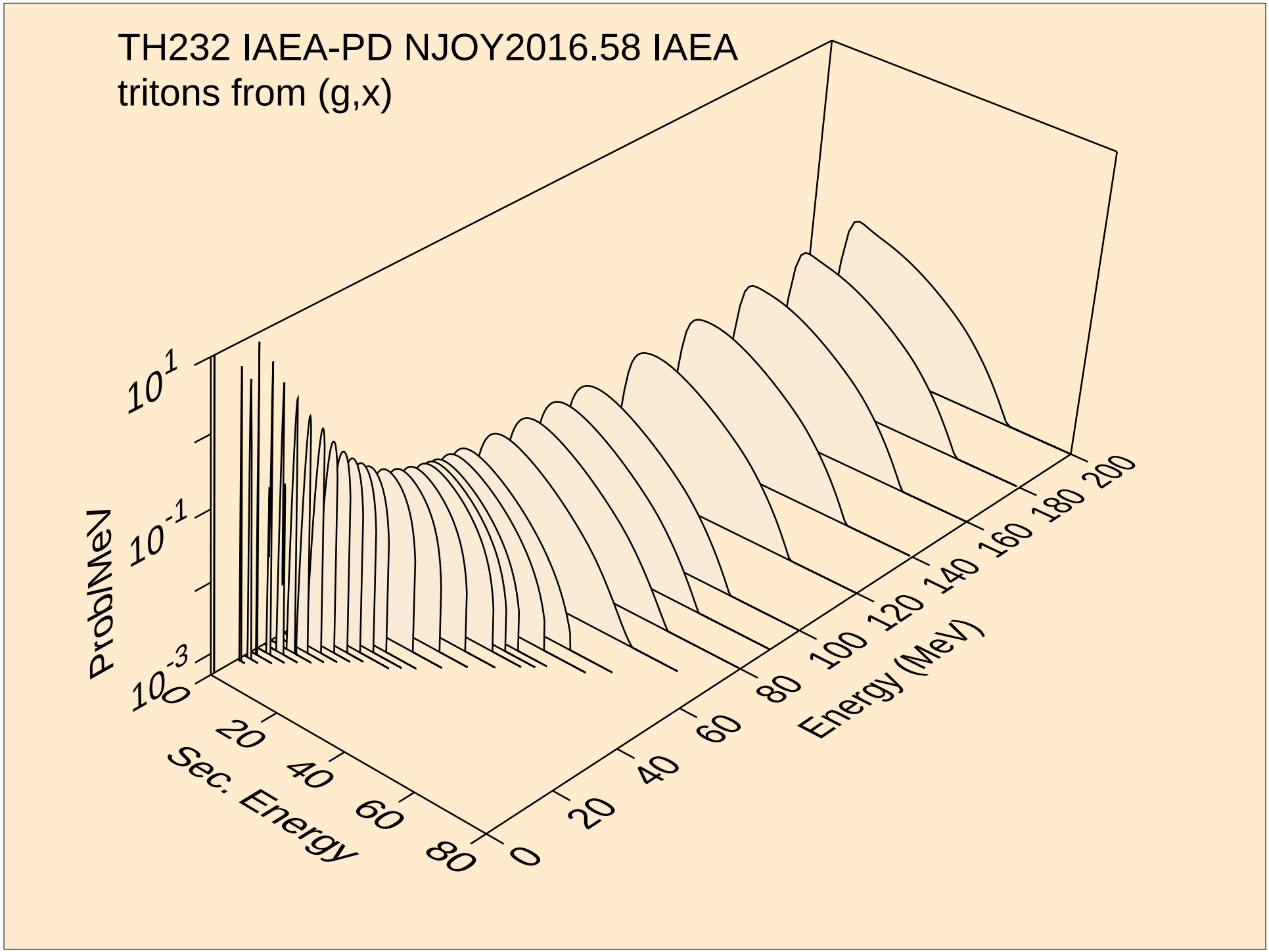

TH232 IAEA-PD NJOY2016.58 IAEA
neutrons from (g,x)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

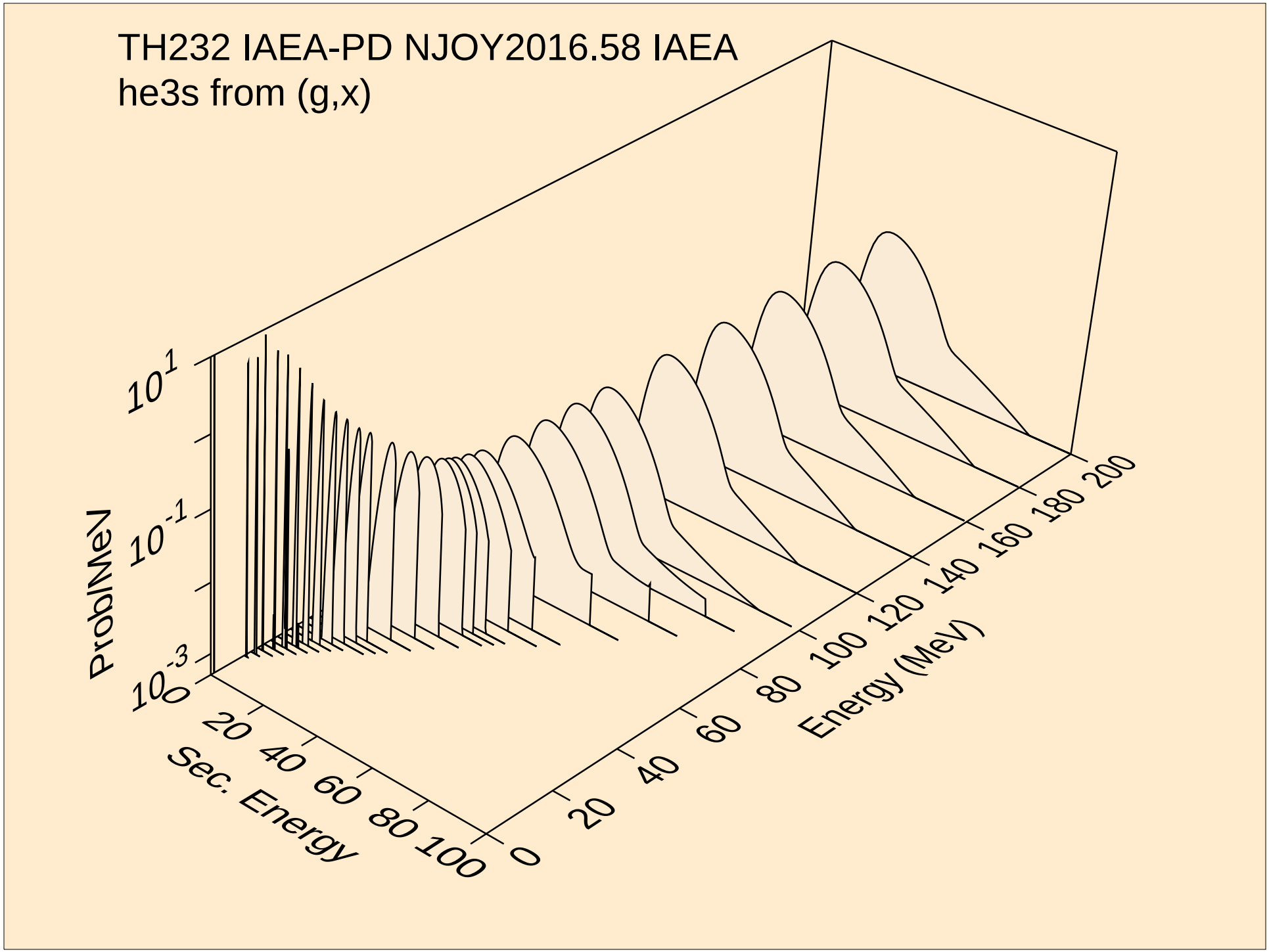

TH232 IAEA-PD NJOY2016.58 IAEA
neutrons from fission
Prob/MeV
10-2
10-4
0
5
10
15
20
Sec. Energy
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

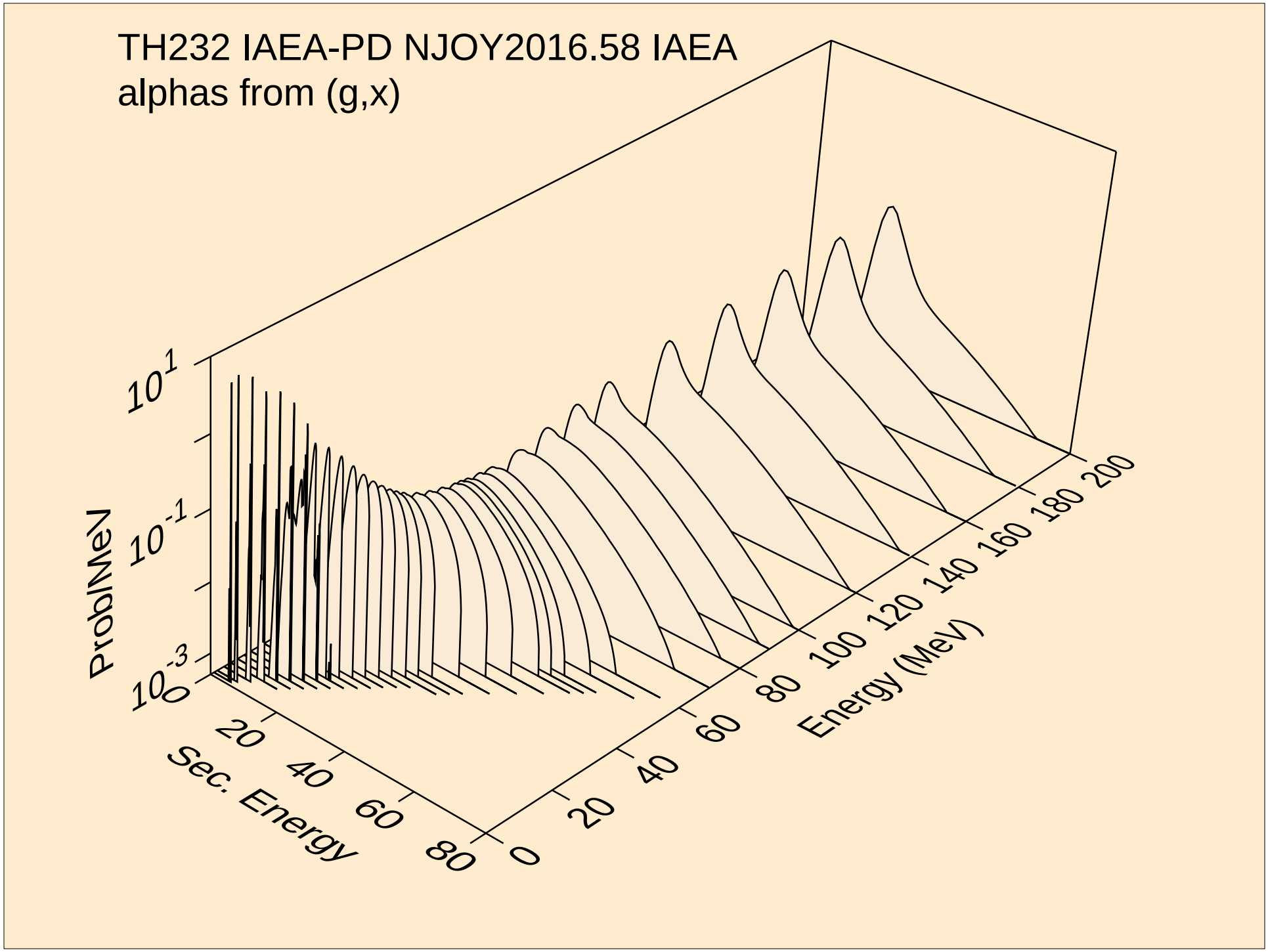

TH232 IAEA-PD NJOY2016.58 IAEA
photons from (g,x)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
5
10
15
Sec. Energy
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)


TH232 IAEA-PD NJOY2016.58 IAEA
protons from (g,x)
Prob/MeV
10^{1}
10^{-1}
0
50
100
150
200
Sec. Energy
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)


TH232 IAEA-PD NJOY2016.58 IAEA
deuterons from (g,x)
Prob/MeV
10^1
10^-1
0
Sec. Energy
20
40
60
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)


TH232 IAEA-PD NJOY2016.58 IAEA
tritons from (g,x)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
20
40
60
80
Sec. Energy
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)


TH232 IAEA-PD NJOY2016.58 IAEA
he3s from (g,x)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
20
40
60
80
100
Sec. Energy
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)


TH232 IAEA-PD NJOY2016.58 IAEA
alphas from (g,x)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
20
40
60
80
Sec. Energy
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)