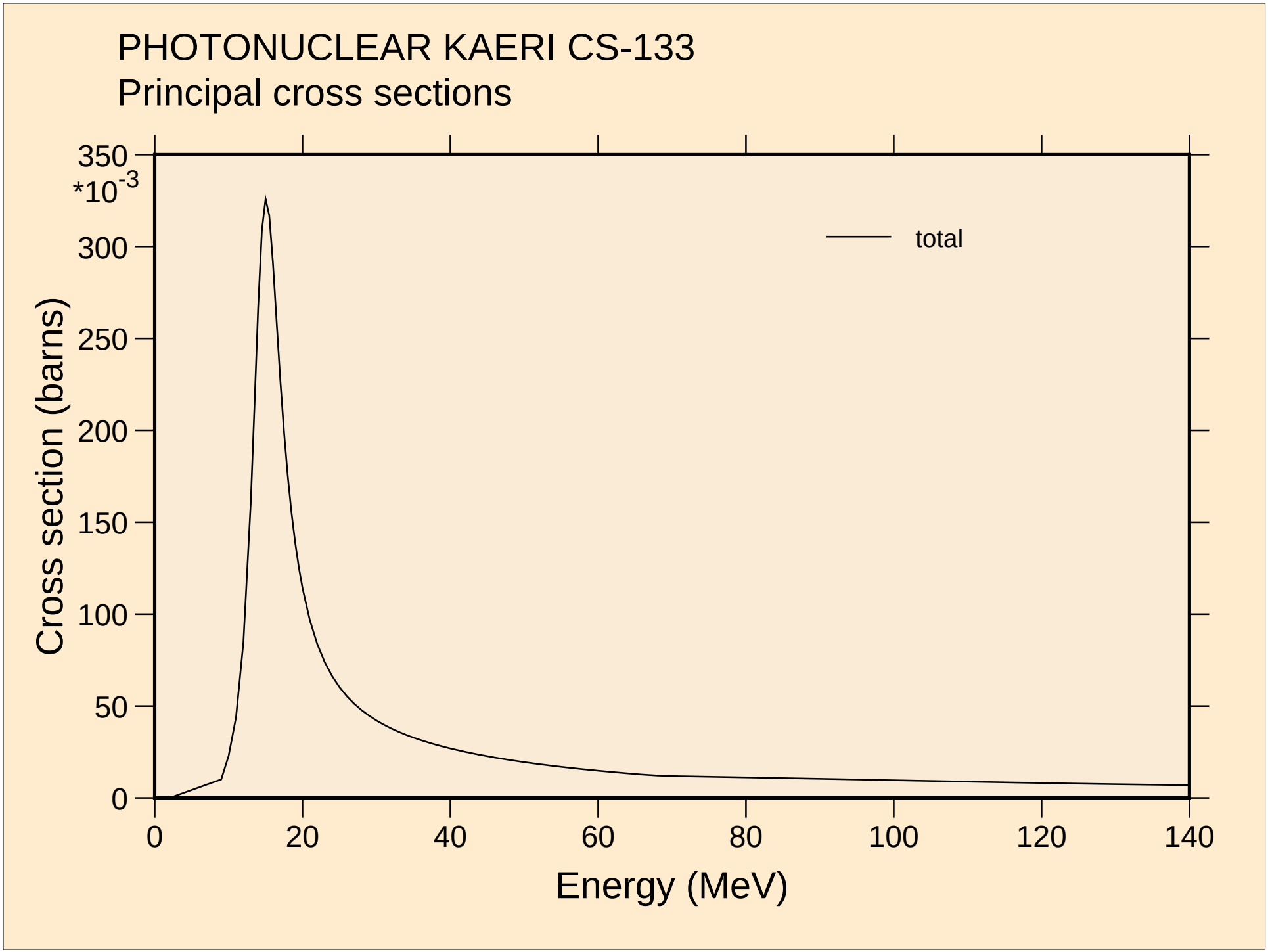
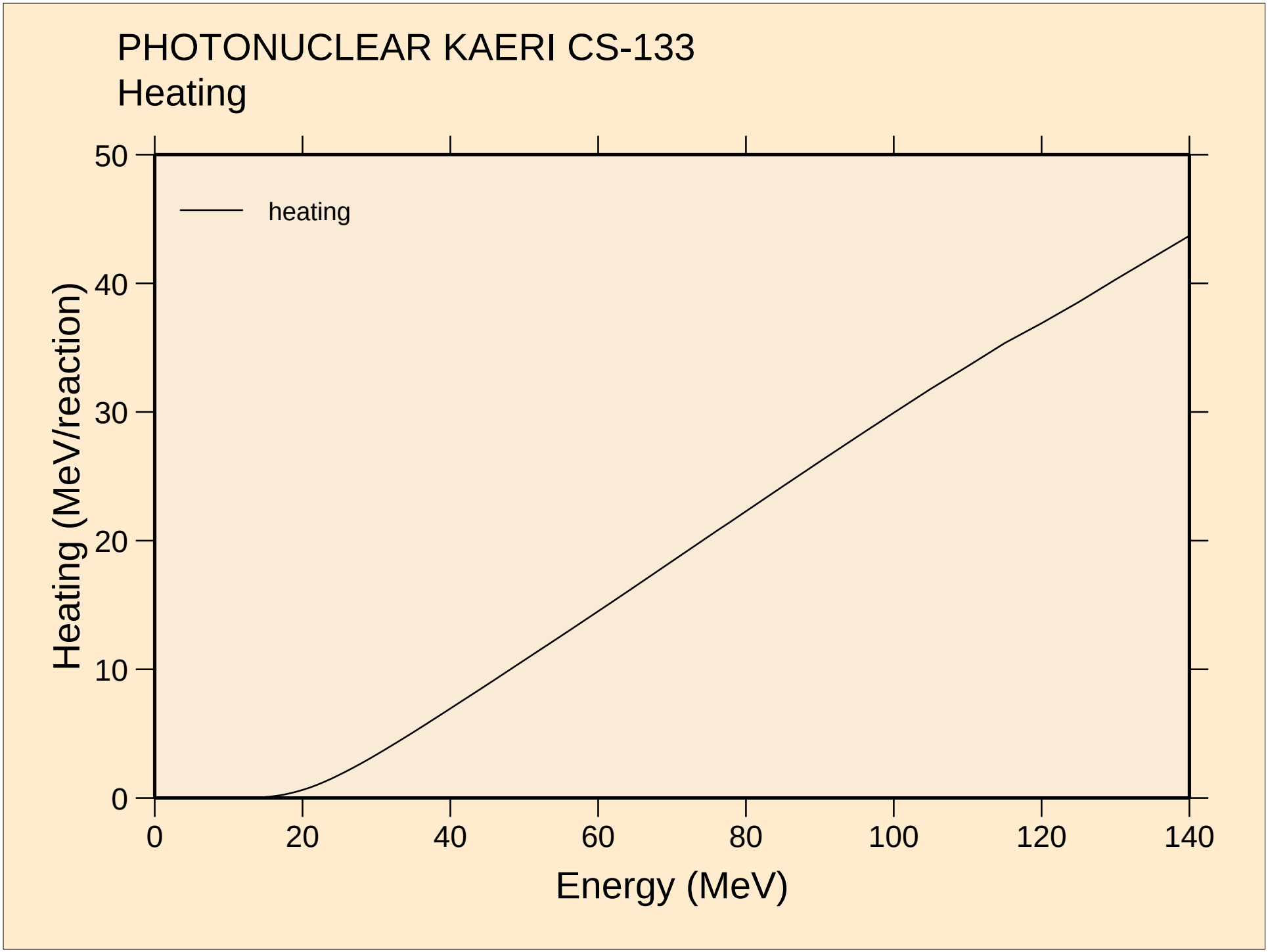
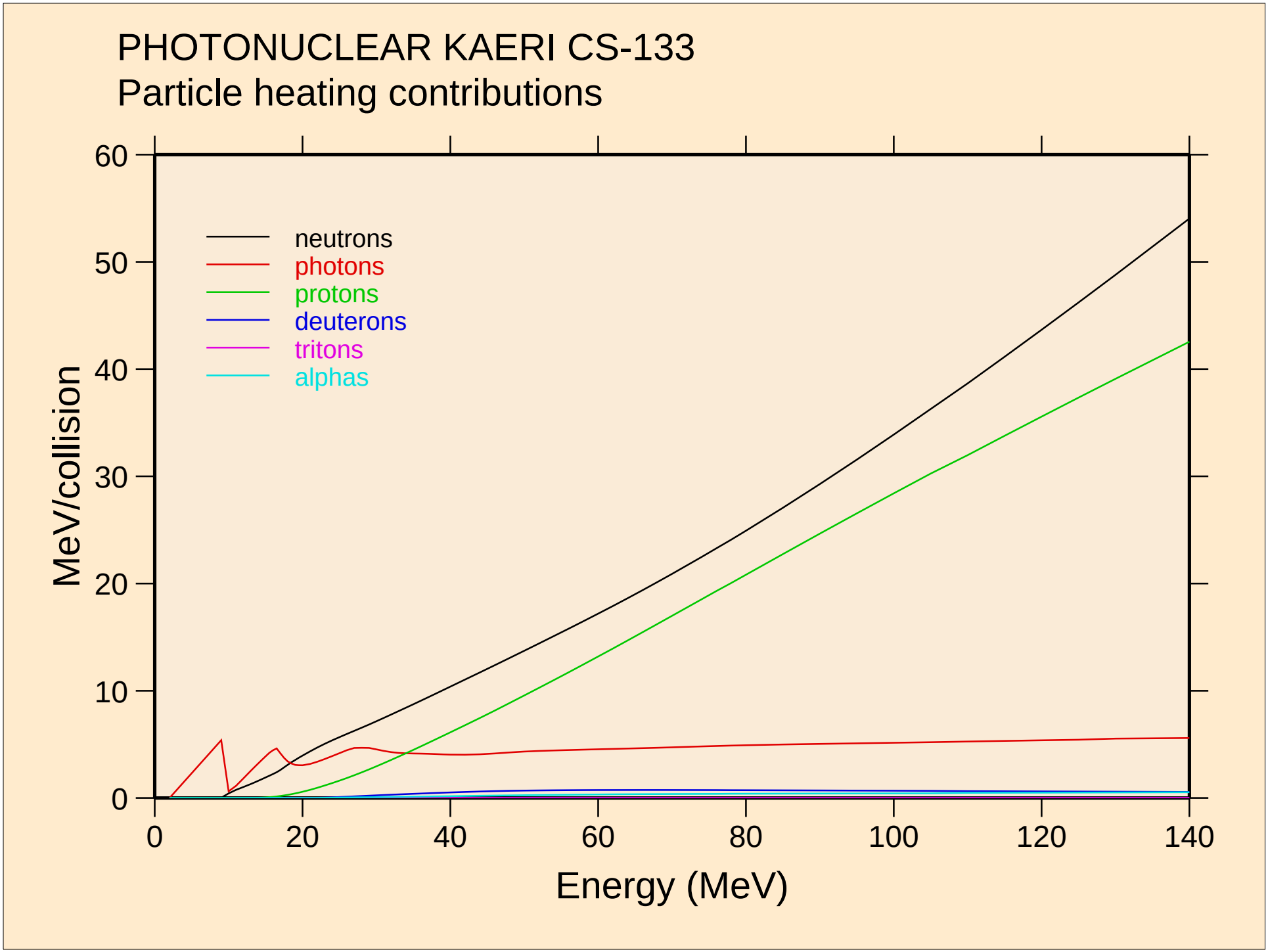
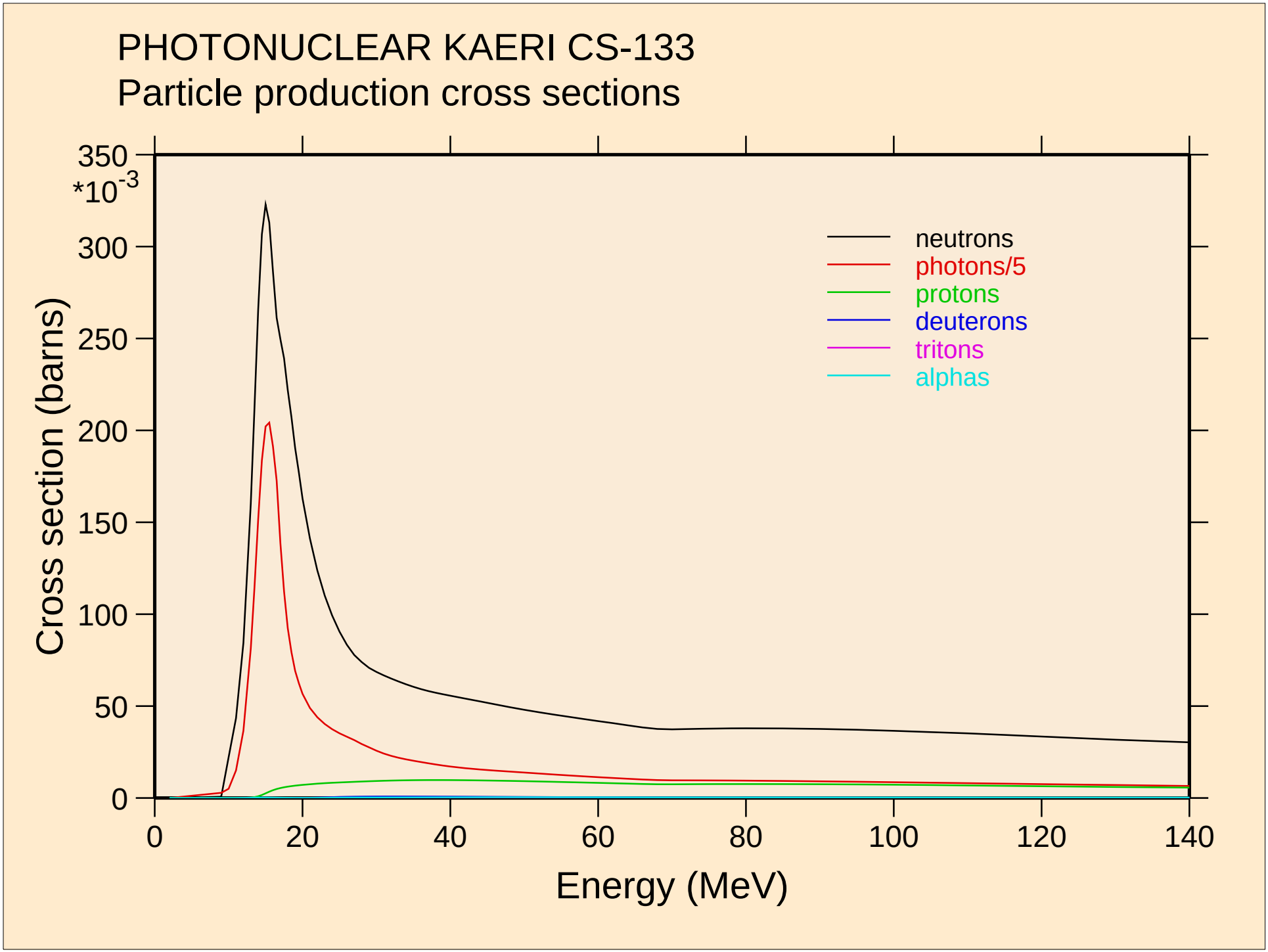
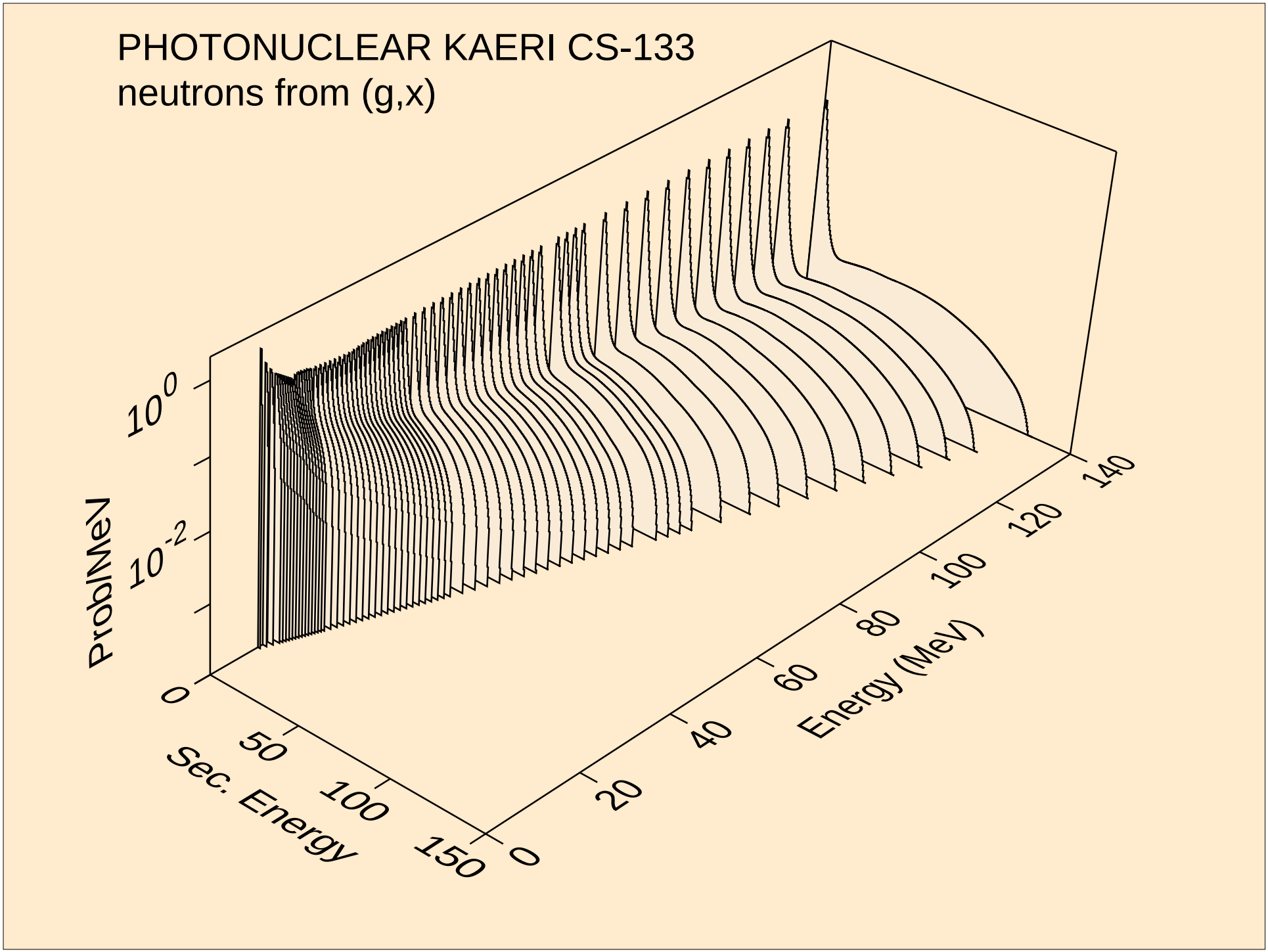
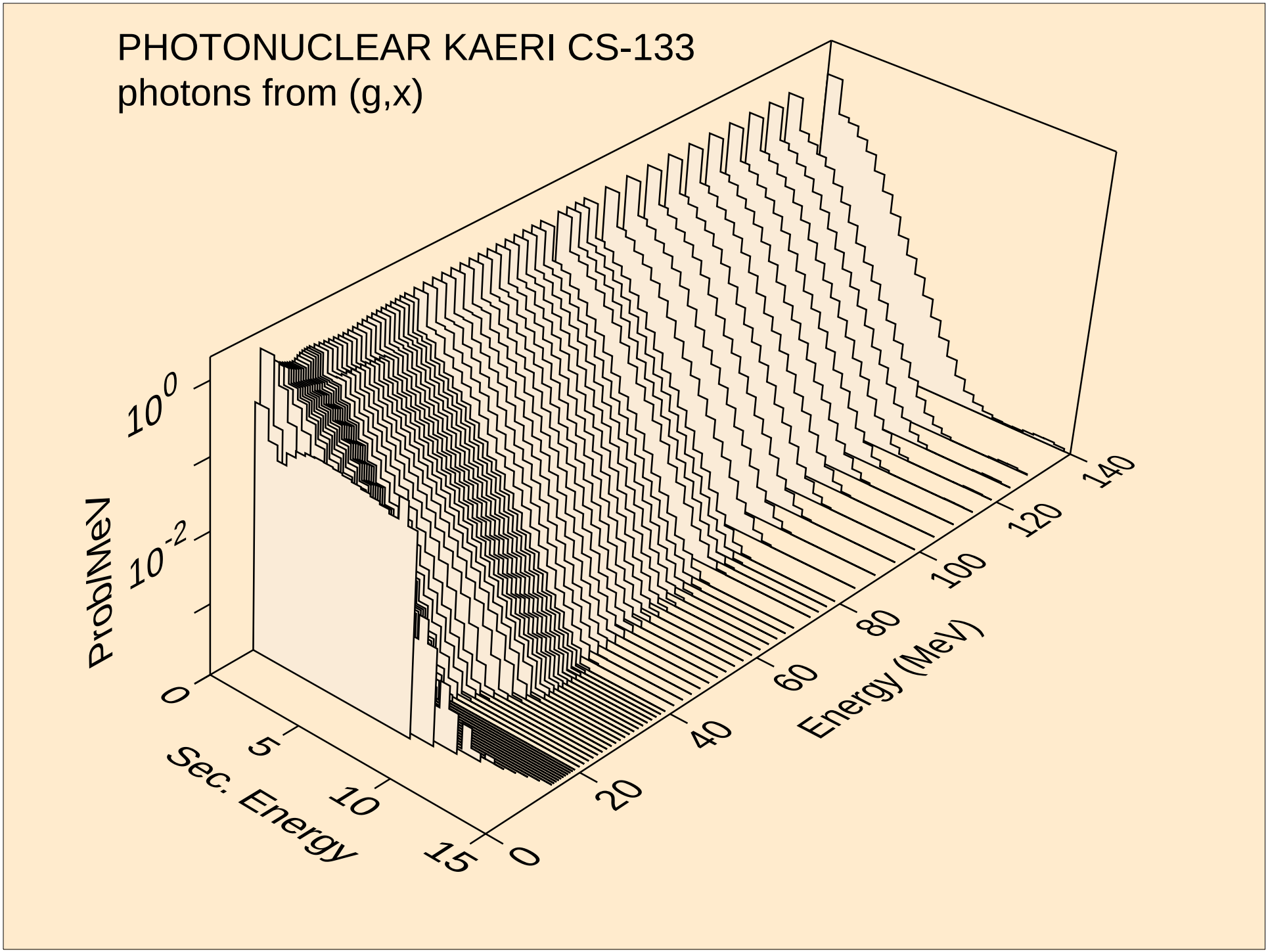

PHOTONUCLEAR KAERI CS-133
Principal cross sections
Cross section (barns)
*10-3
350
300
250
200
150
100
50
0
0
20
40
60
80
100
120
140
Energy (MeV)
total

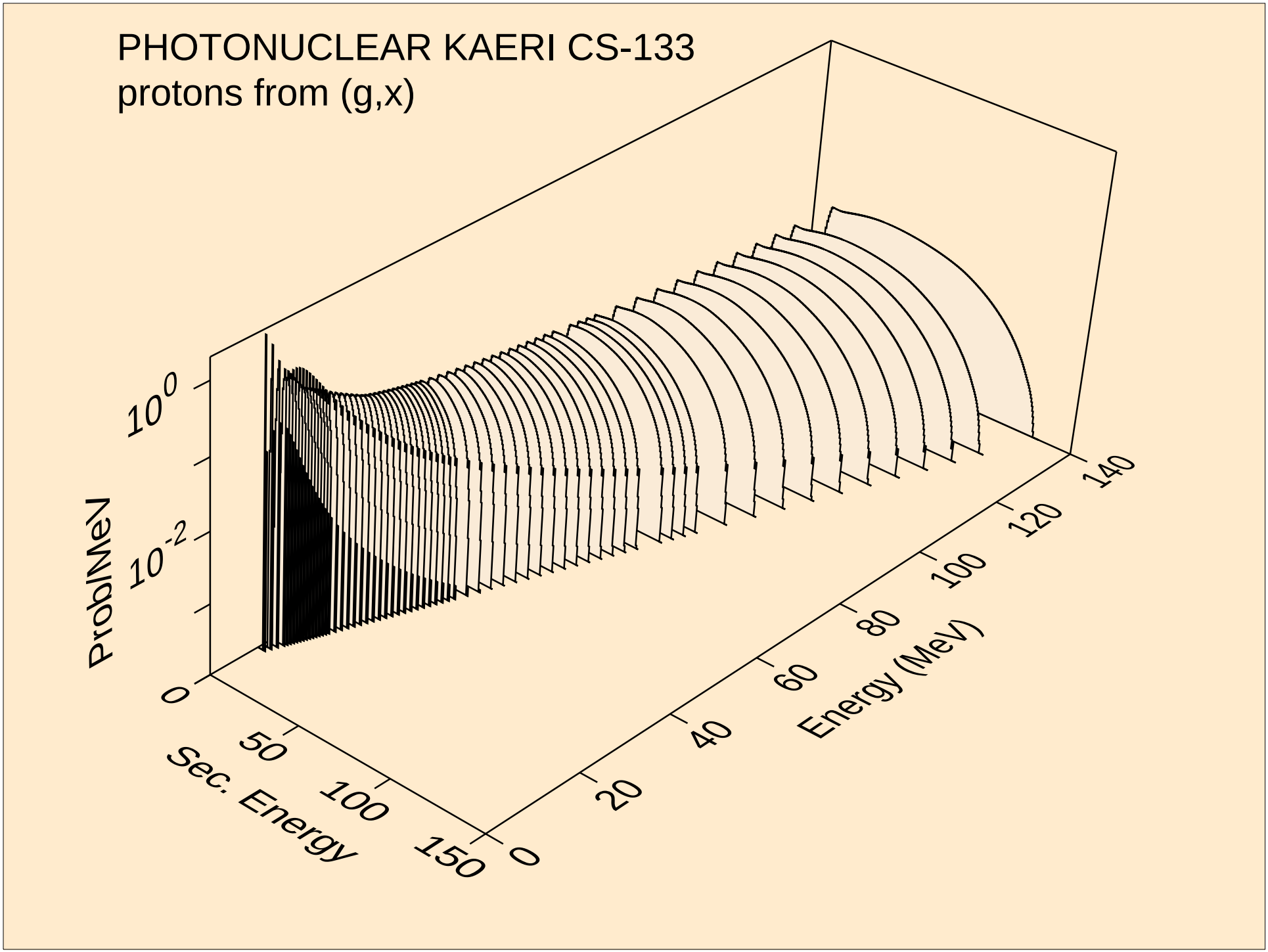

PHOTONUCLEAR KAERI CS-133
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
0
20
40
60
80
100
120
140

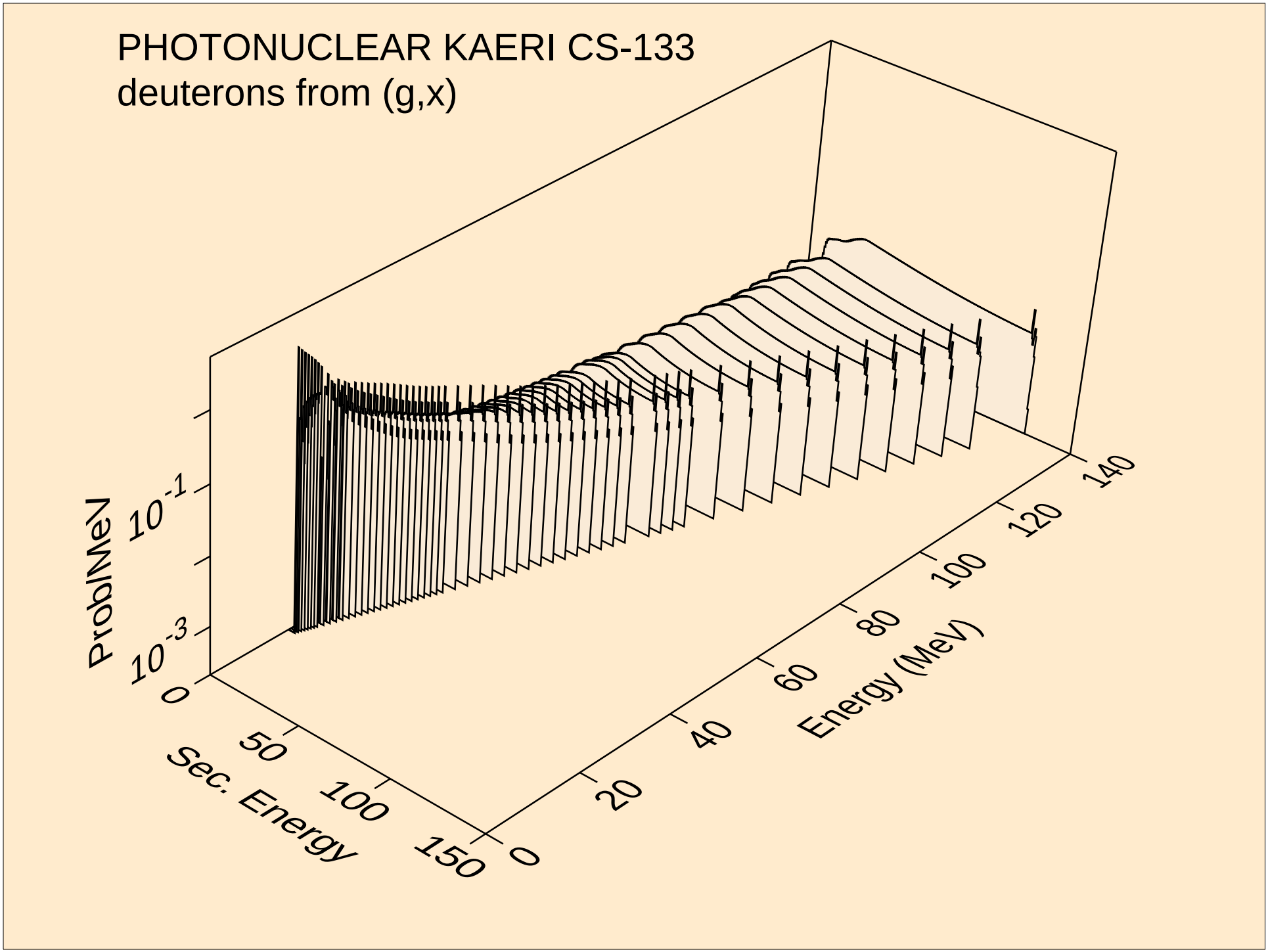

PHOTONUCLEAR KAERI CS-133
Particle heating contributions
neutrons
photons
protons
deuterons
tritons
alphas
MeV/collision
Energy (MeV)
0
10
20
30
40
50
60
0
20
40
60
80
100
120
140

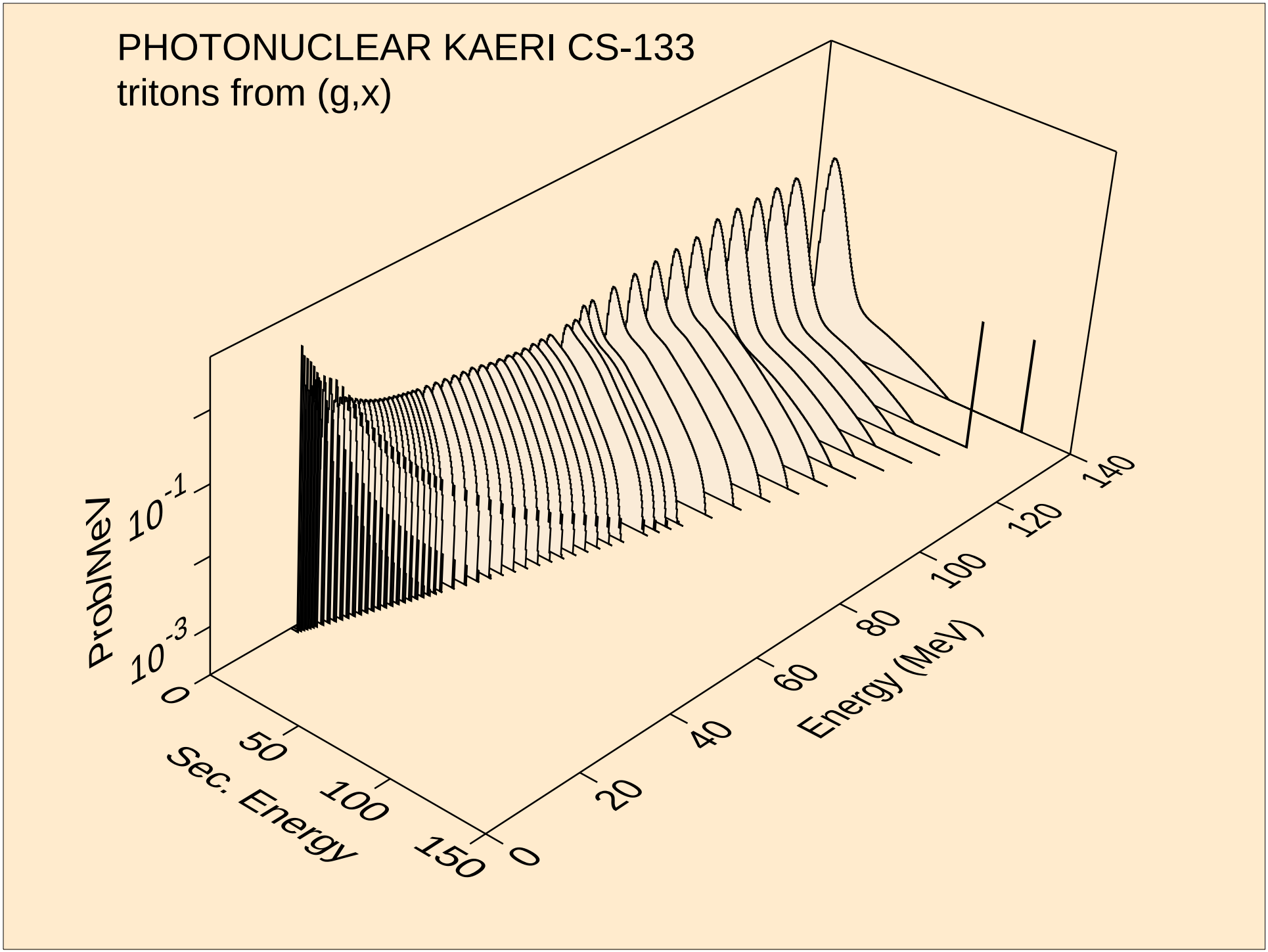

PHOTONUCLEAR KAERI CS-133
Particle production cross sections
Cross section (barns)
*10-3
350
300
250
200
150
100
50
0
0
20
40
60
80
100
120
140
Energy (MeV)
neutrons
photons/5
protons
deuterons
tritons
alphas

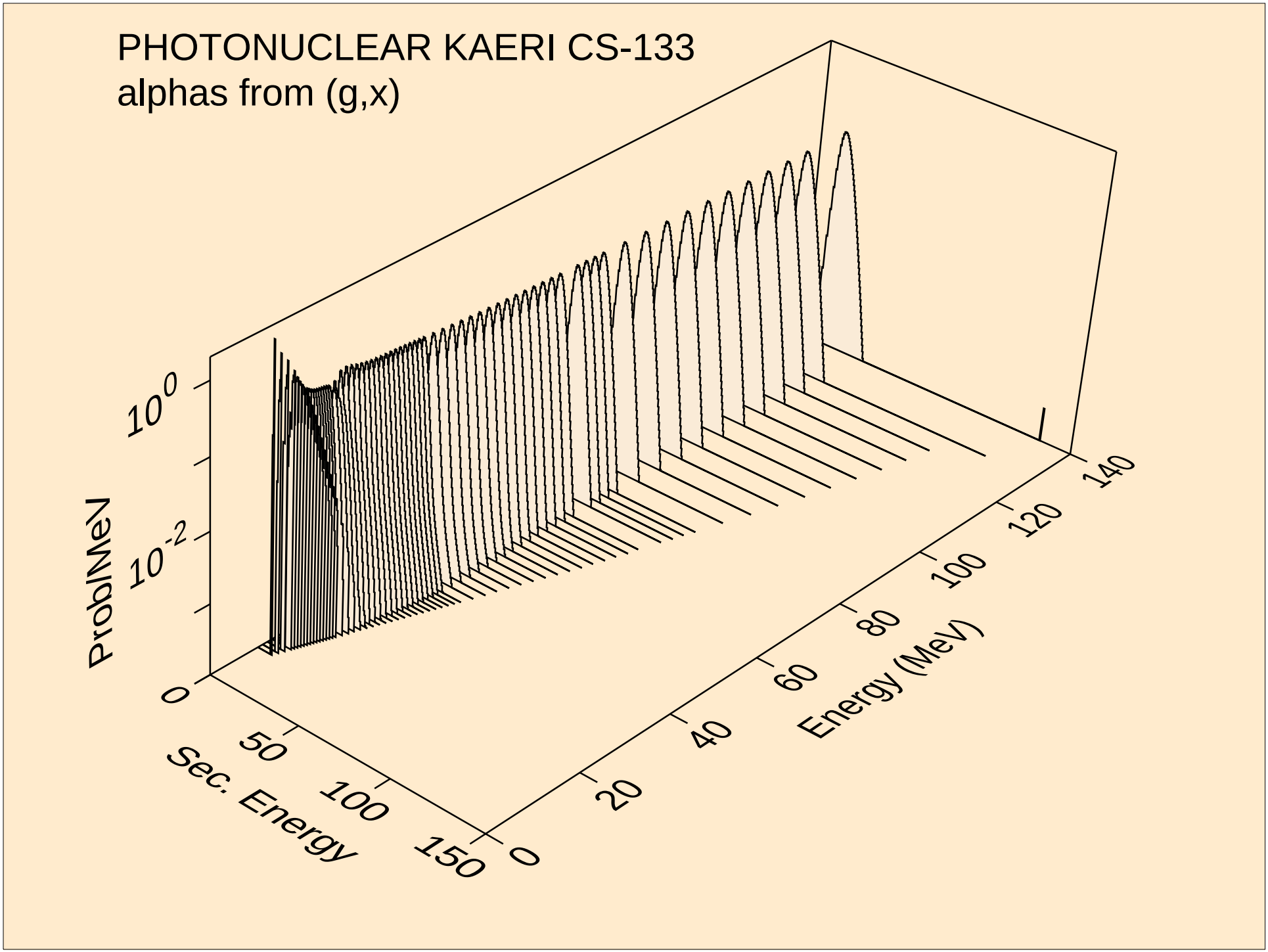

PHOTONUCLEAR KAERI CS-133
neutrons from (g,x)
Prob/MeV
10^0
10^-2
0
Sec. Energy
50
100
150
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI CS-133
photons from (g,x)
Prob/MeV
10^0
10^-2
0
5
10
15
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI CS-133
protons from (g,x)
Prob/MeV
10^0
10^-2
0
Sec. Energy
50
100
150
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI CS-133
deuterons from (g,x)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI CS-133
tritons from (g,x)
Prob/MeV
10-1
10-3
0
50
100
150
Sec. Energy
0
20
40
60
80
100
120
140
Energy (MeV)


PHOTONUCLEAR KAERI CS-133
alphas from (g,x)
Prob/MeV
10^0
10^-2
0
Sec. Energy
50
100
150
0
20
40
60
80
100
120
140
Energy (MeV)