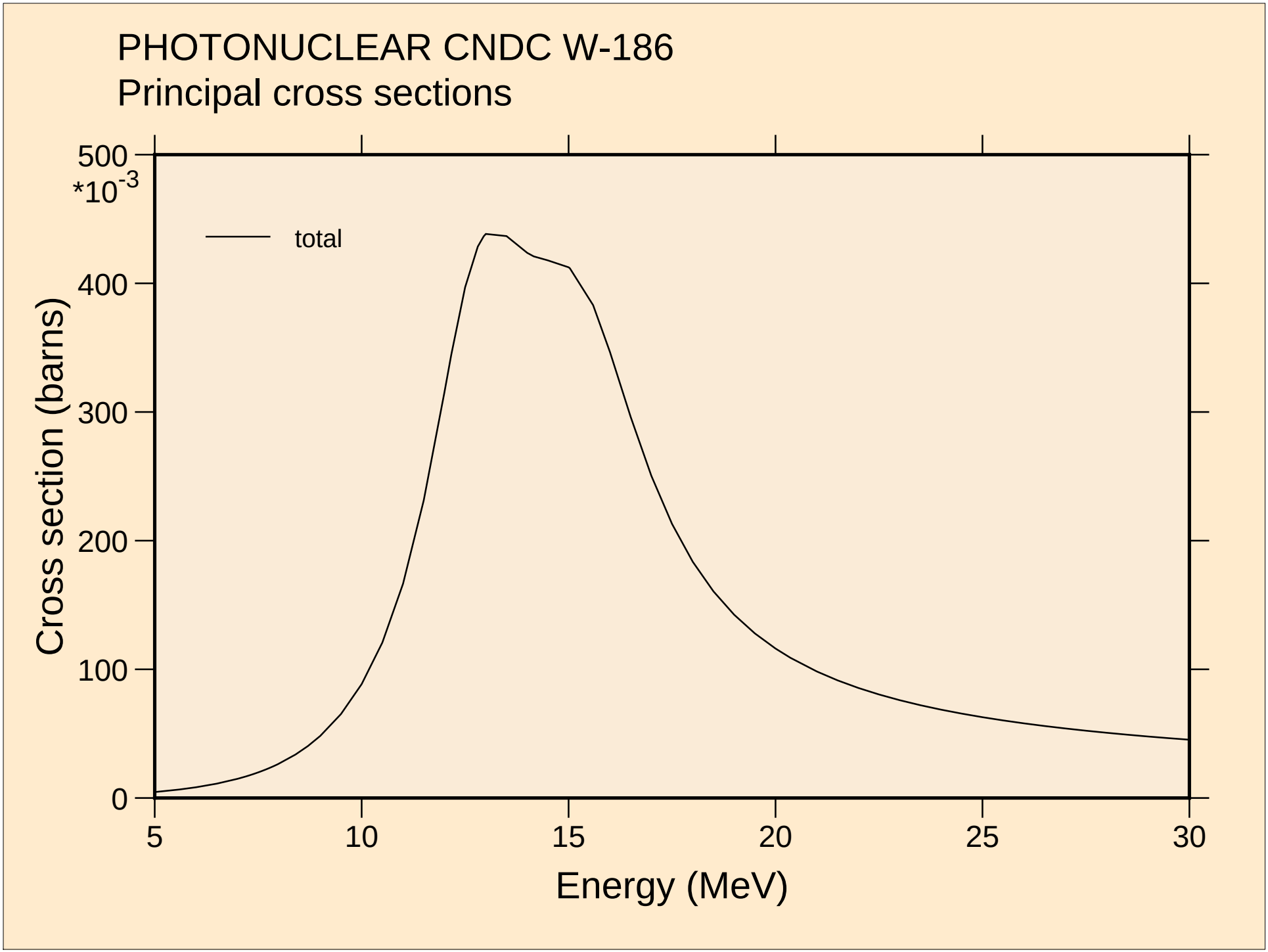
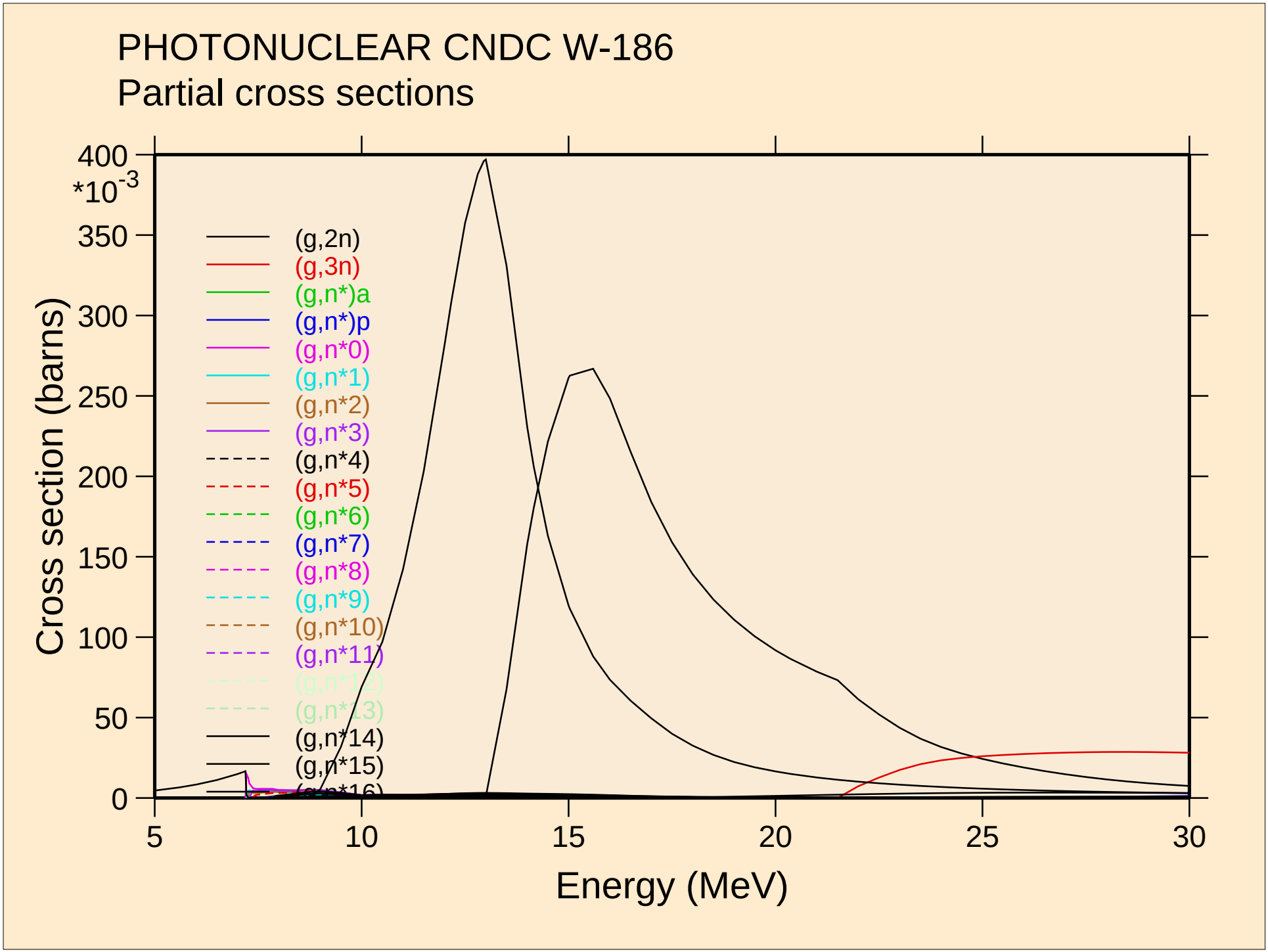
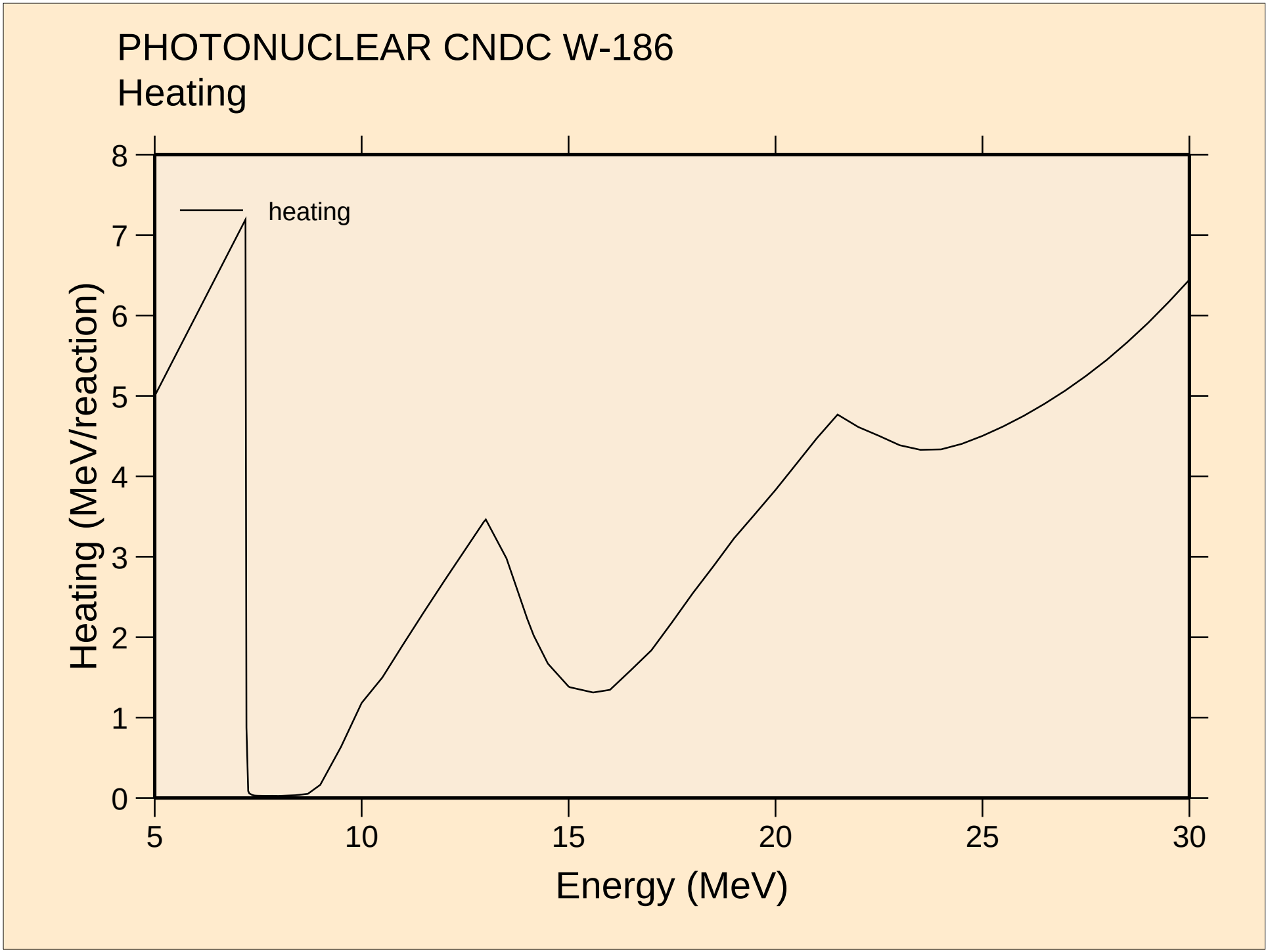
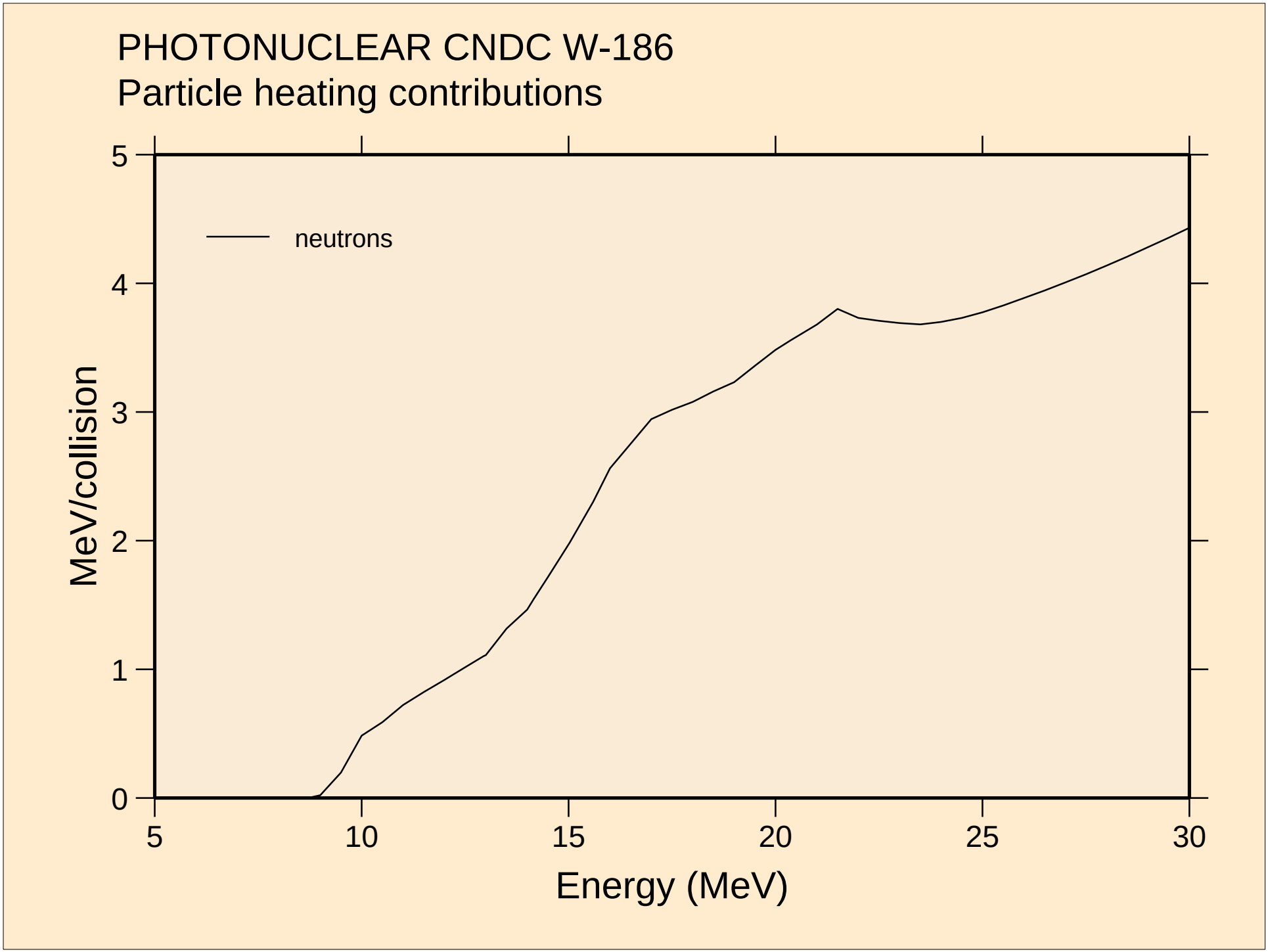
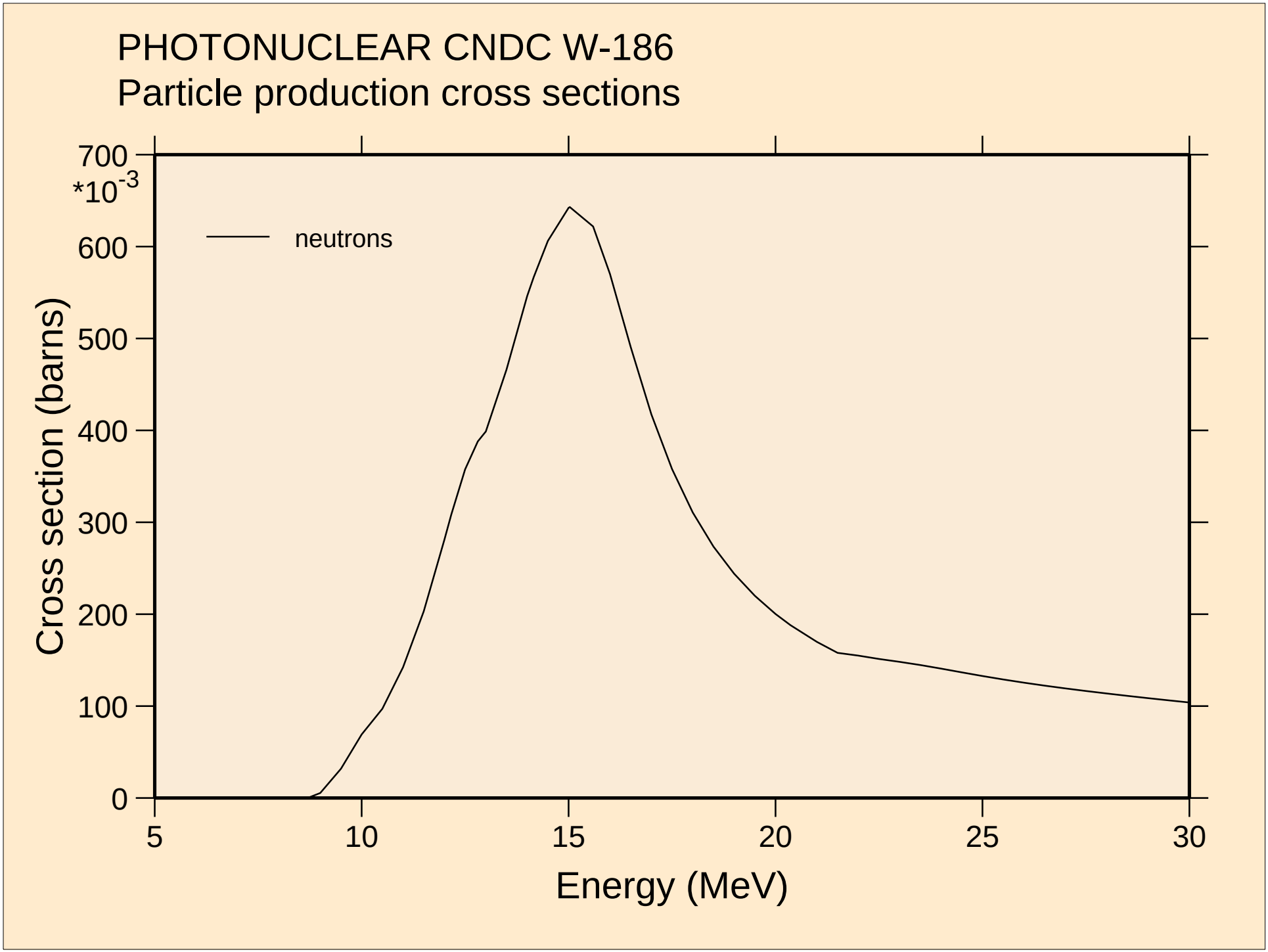
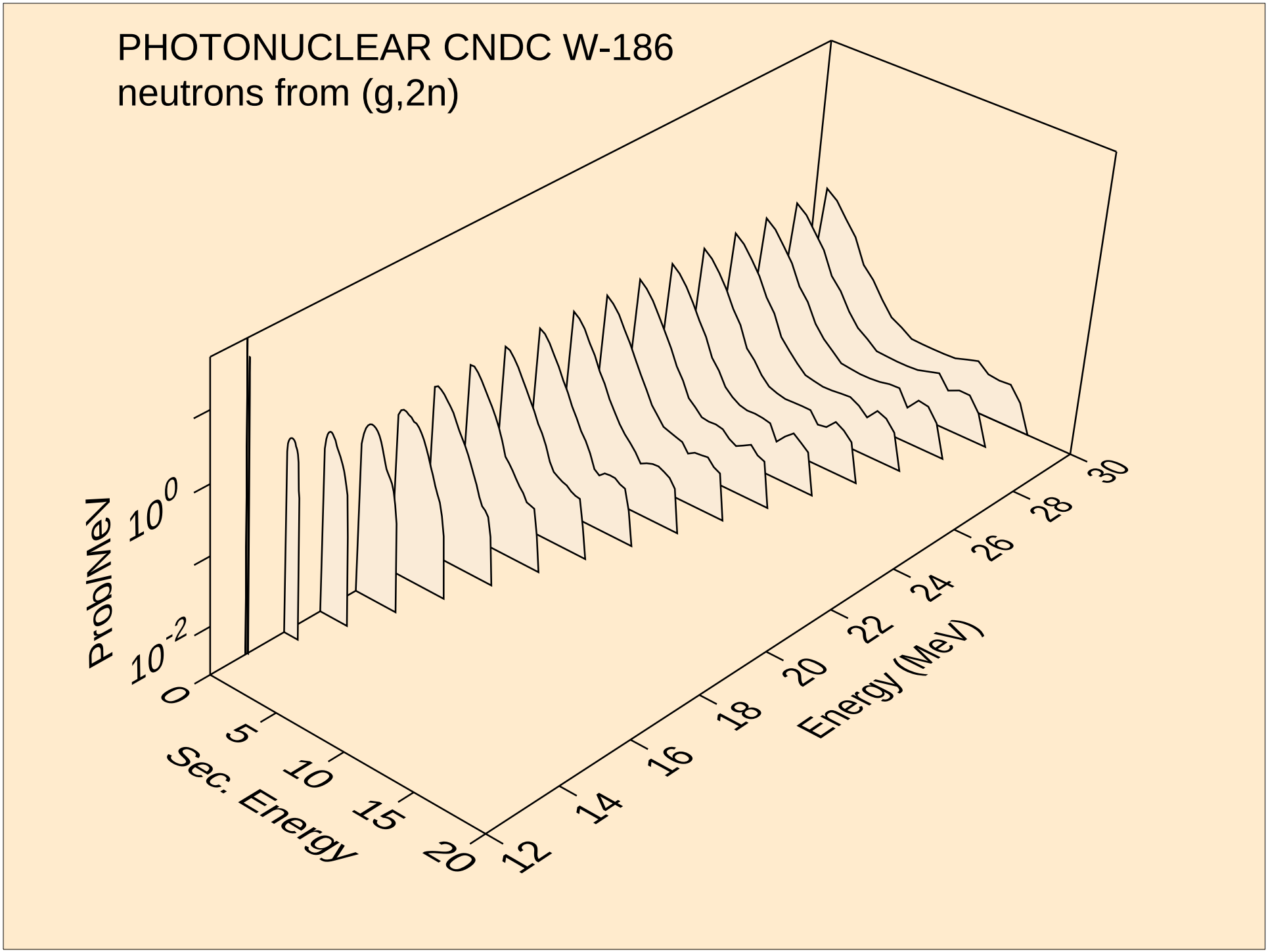

PHOTONUCLEAR CNDC W-186
Principal cross sections
500
*10-3
400
300
200
100
0
total
Cross section (barns)
5
10
15
20
25
30
Energy (MeV)

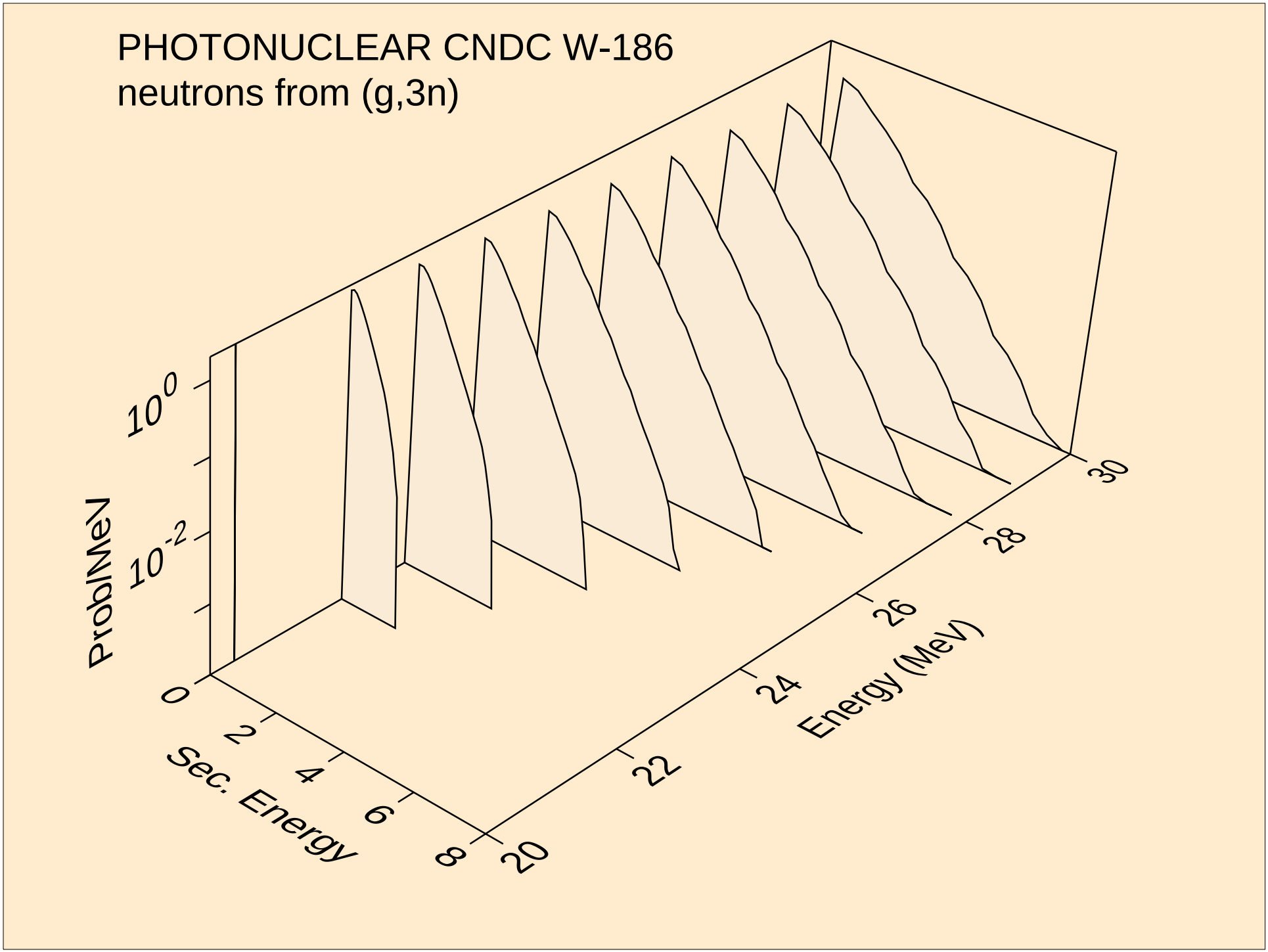

PHOTONUCLEAR CNDC W-186
Partial cross sections
Cross section (barns)
*10-3
400
350
300
250
200
150
100
50
0
5
10
15
20
25
30
Energy (MeV)
(g,2n)
(g,3n)
(g,n*)a
(g,n*)p
(g,n*0)
(g,n*1)
(g,n*2)
(g,n*3)
(g,n*4)
(g,n*5)
(g,n*6)
(g,n*7)
(g,n*8)
(g,n*9)
(g,n*10)
(g,n*11)
(g,n*12)
(g,n*13)
(g,n*14)
(g,n*15)
(g,n*16)

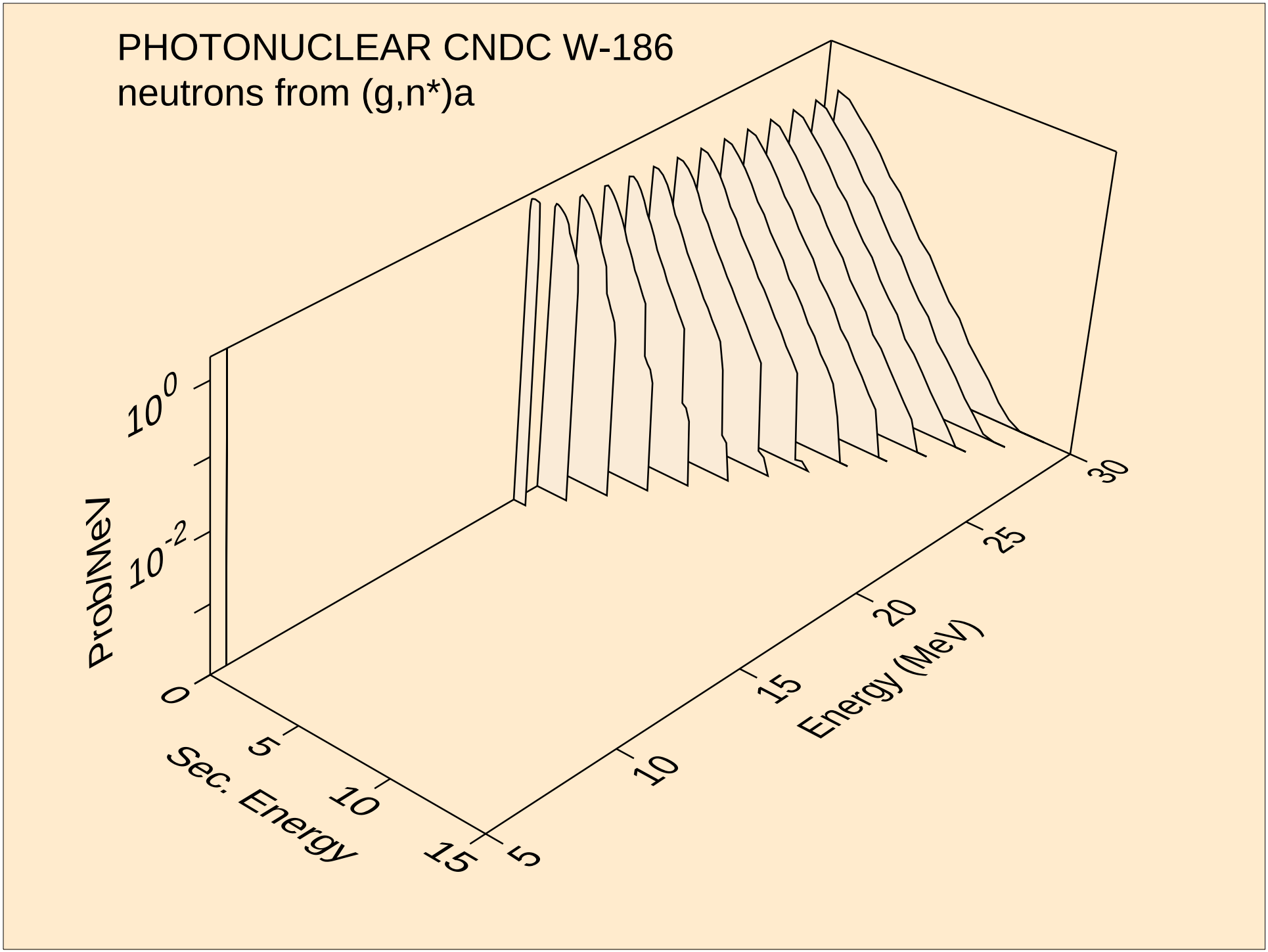

PHOTONUCLEAR CNDC W-186
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
1
2
3
4
5
6
7
8
5
10
15
20
25
30

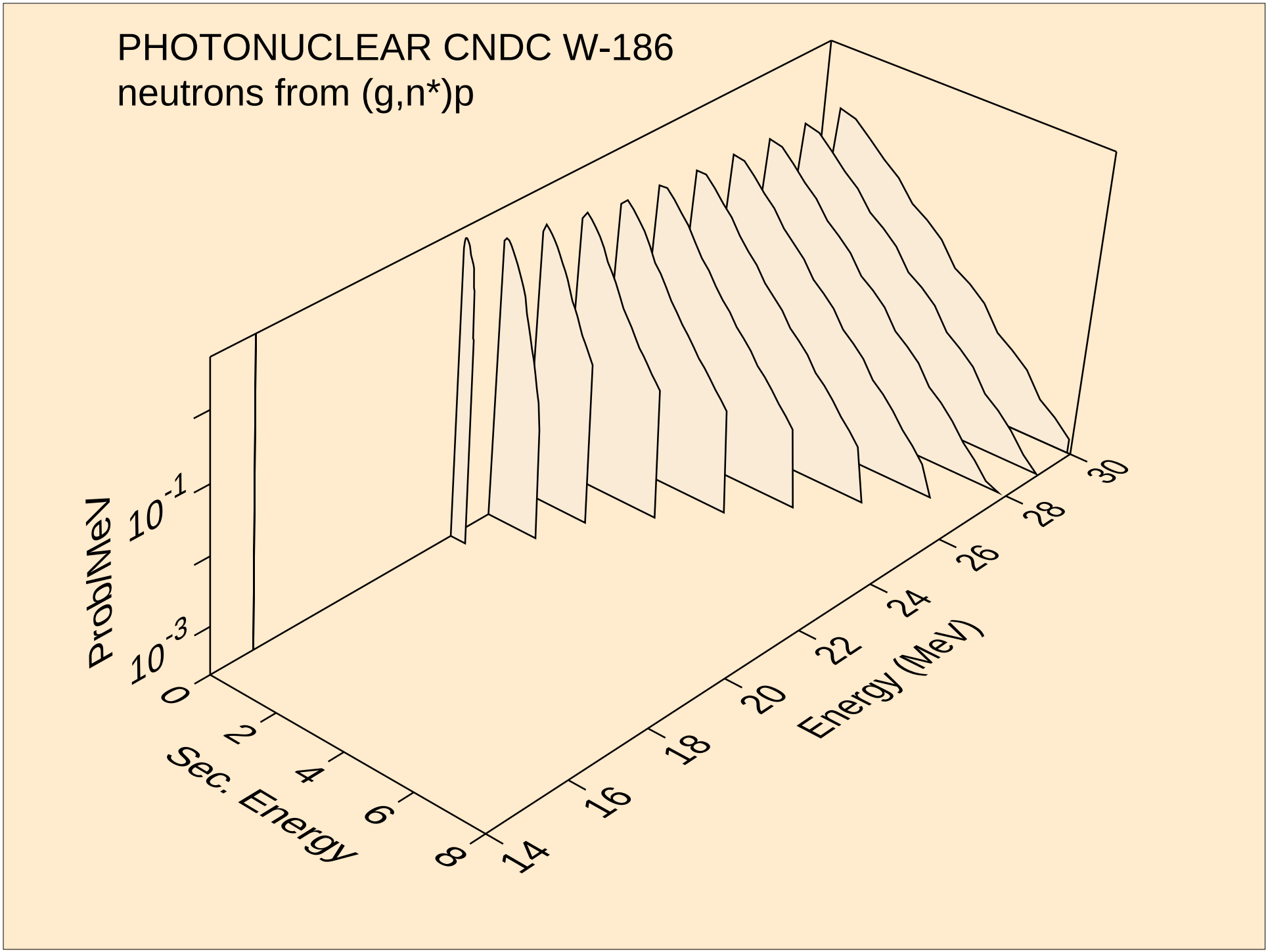

PHOTONUCLEAR CNDC W-186
Particle heating contributions
neutrons
MeV/collision
Energy (MeV)
0
1
2
3
4
5
5
10
15
20
25
30

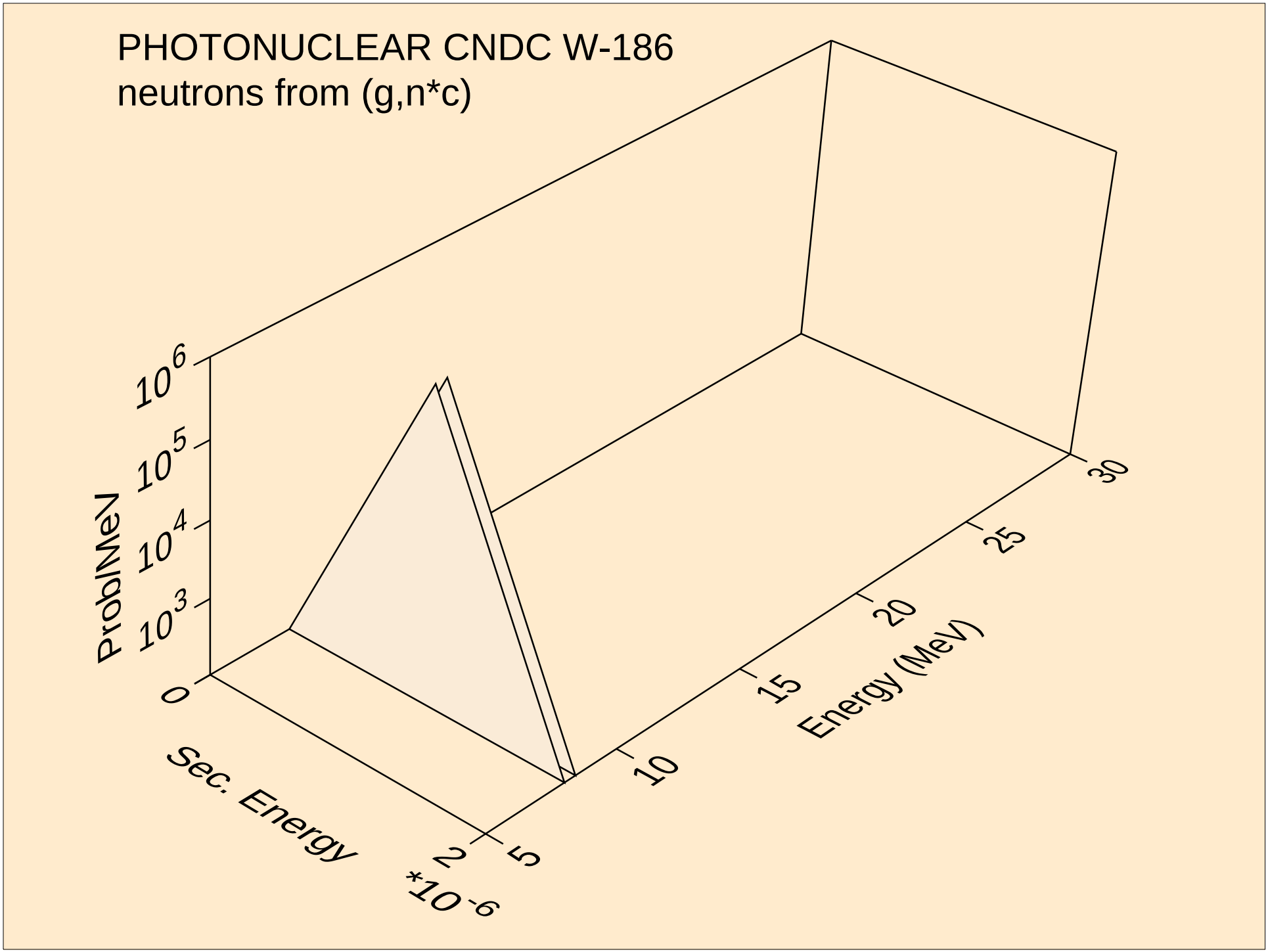

PHOTONUCLEAR CNDC W-186
Particle production cross sections
700
*10-3
600
500
400
300
200
100
0
neutrons
Cross section (barns)
5
10
15
20
25
30
Energy (MeV)


PHOTONUCLEAR CNDC W-186
neutrons from (g,2n)
Prob/MeV
10^0
10^-2
0
5
10
15
20
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)


PHOTONUCLEAR CNDC W-186
neutrons from (g,3n)
Prob/MeV
10^0
10^-2
0
2
4
6
8
Sec. Energy
20
22
24
26
28
30
Energy (MeV)


PHOTONUCLEAR CNDC W-186
neutrons from (g,n*)a
Prob/MeV
10^0
10^-2
0
5
10
15
Sec. Energy
5
10
15
20
25
30
Energy (MeV)


PHOTONUCLEAR CNDC W-186
neutrons from (g,n*)p
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)


PHOTONUCLEAR CNDC W-186
neutrons from (g,n*c)
Prob/MeV
10^6
10^5
10^4
10^3
0
Sec. Energy
2
5
*10-6
10
15
20
25
30
Energy (MeV)