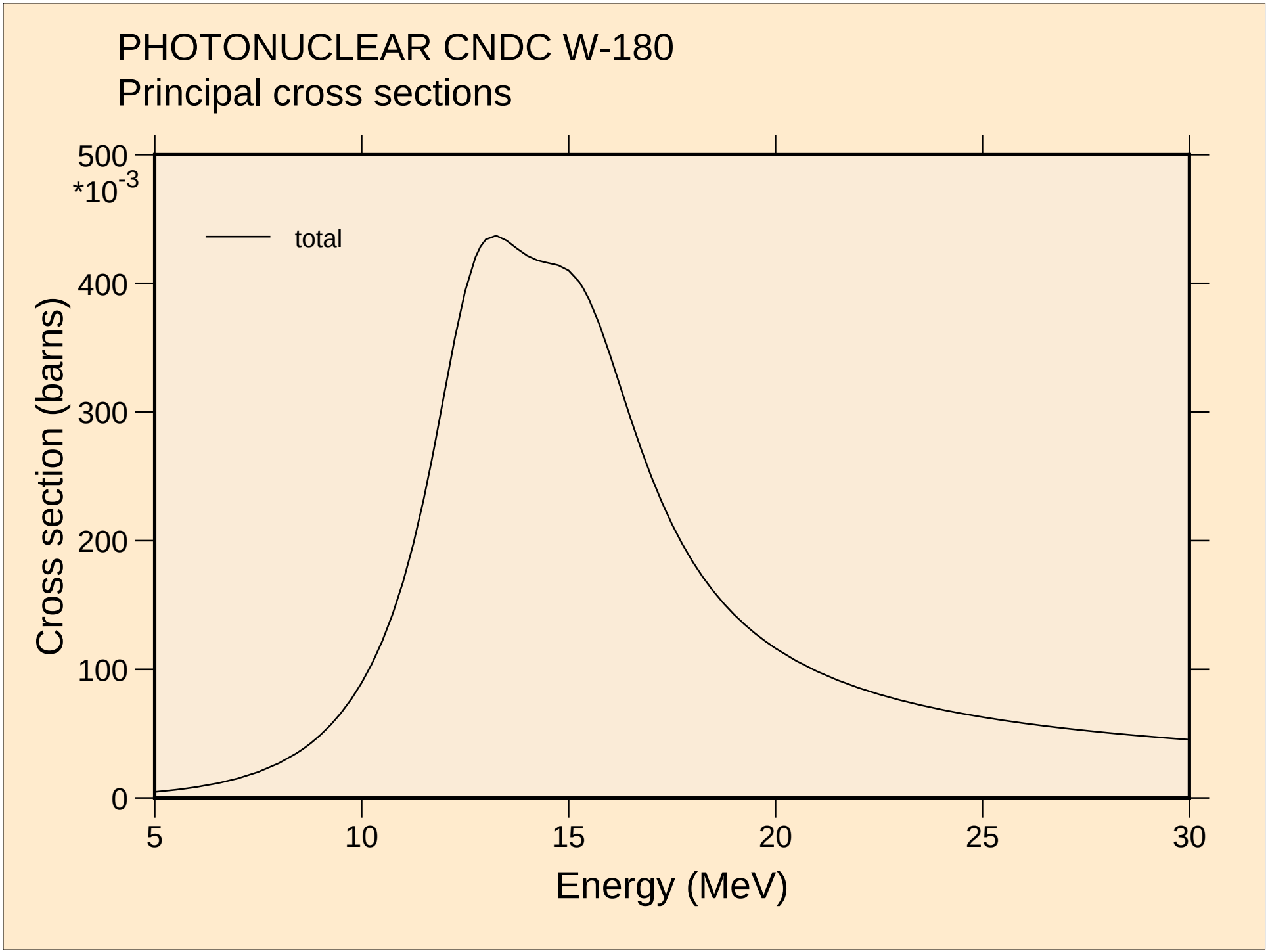
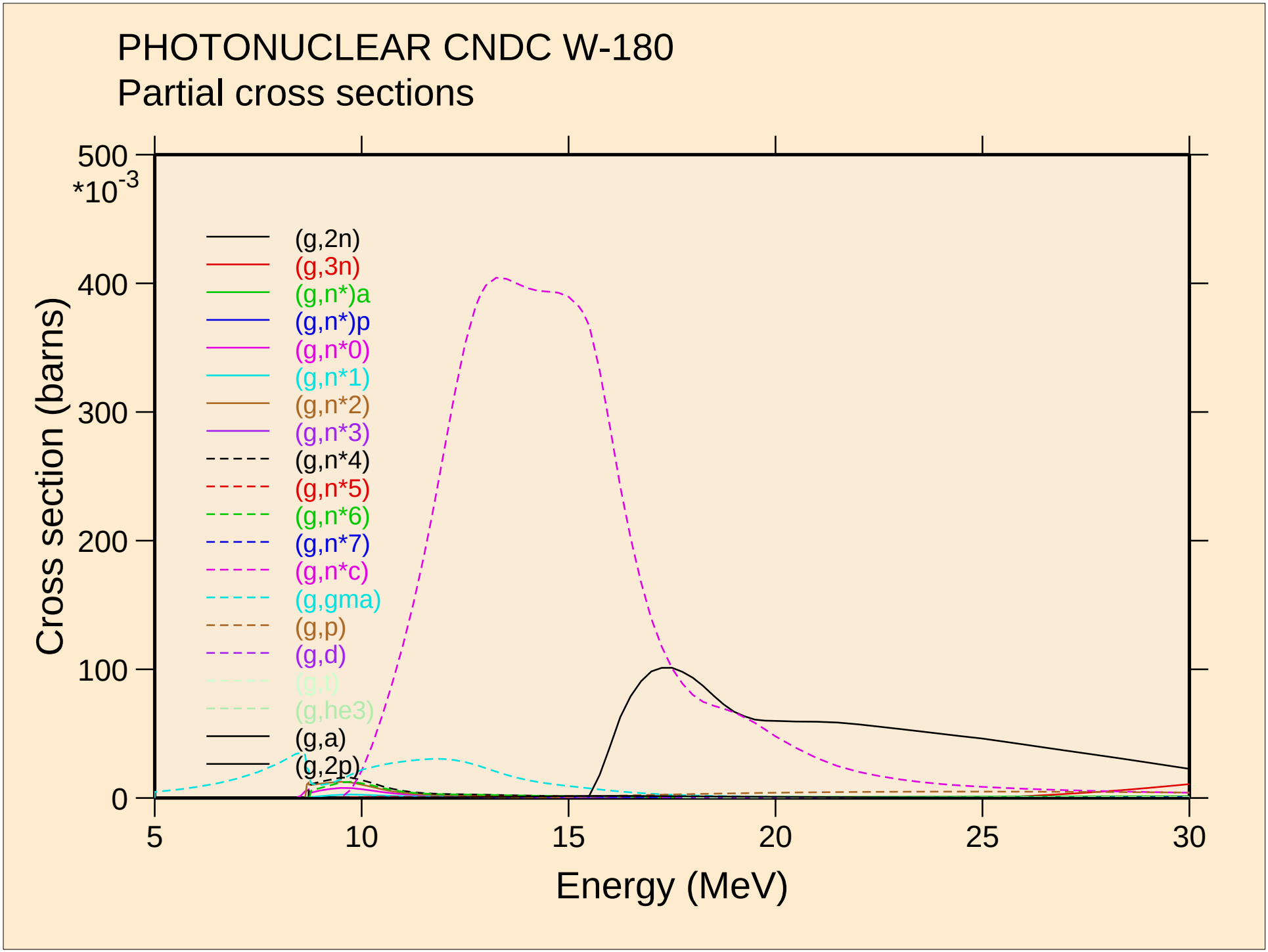
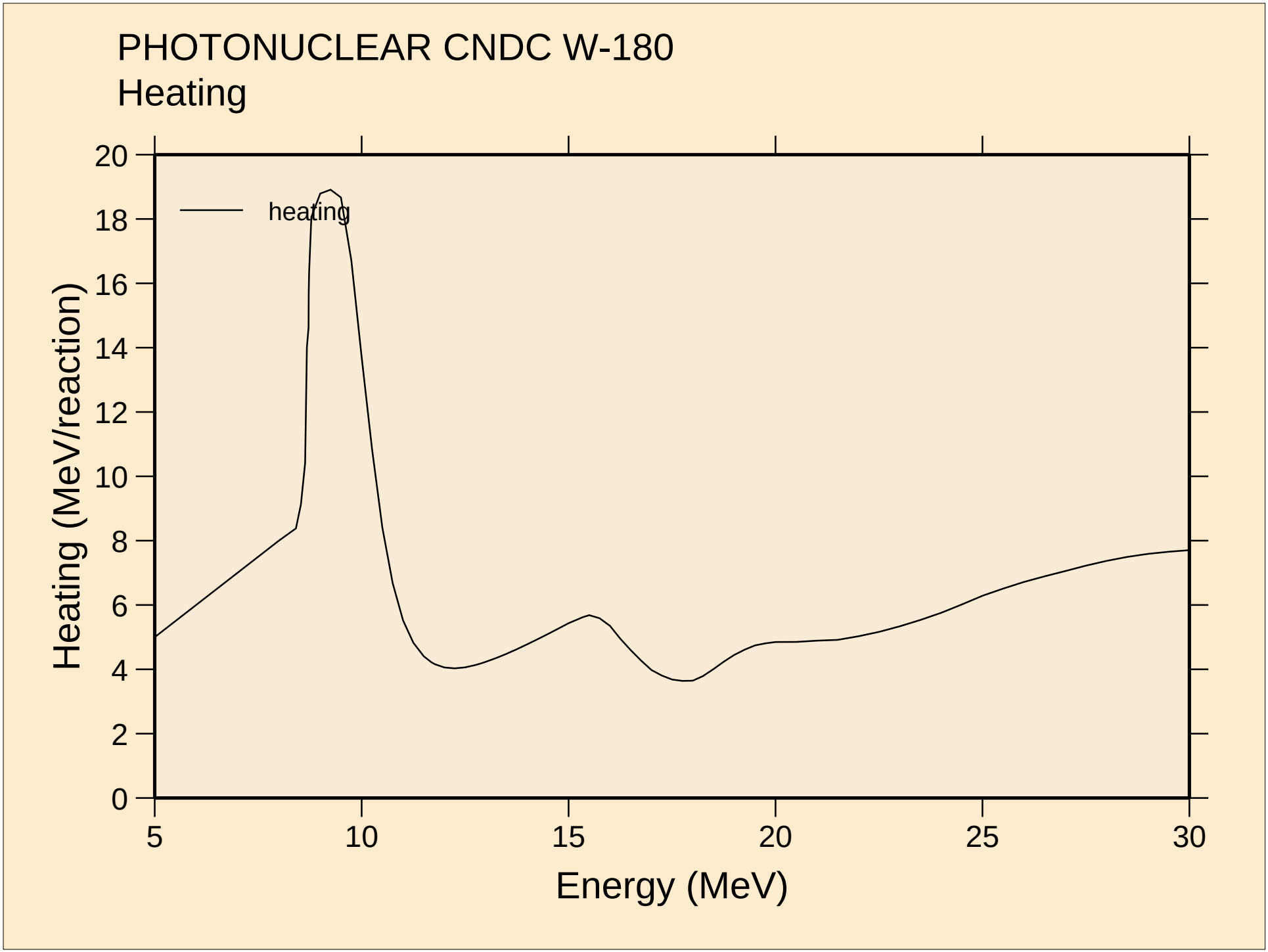
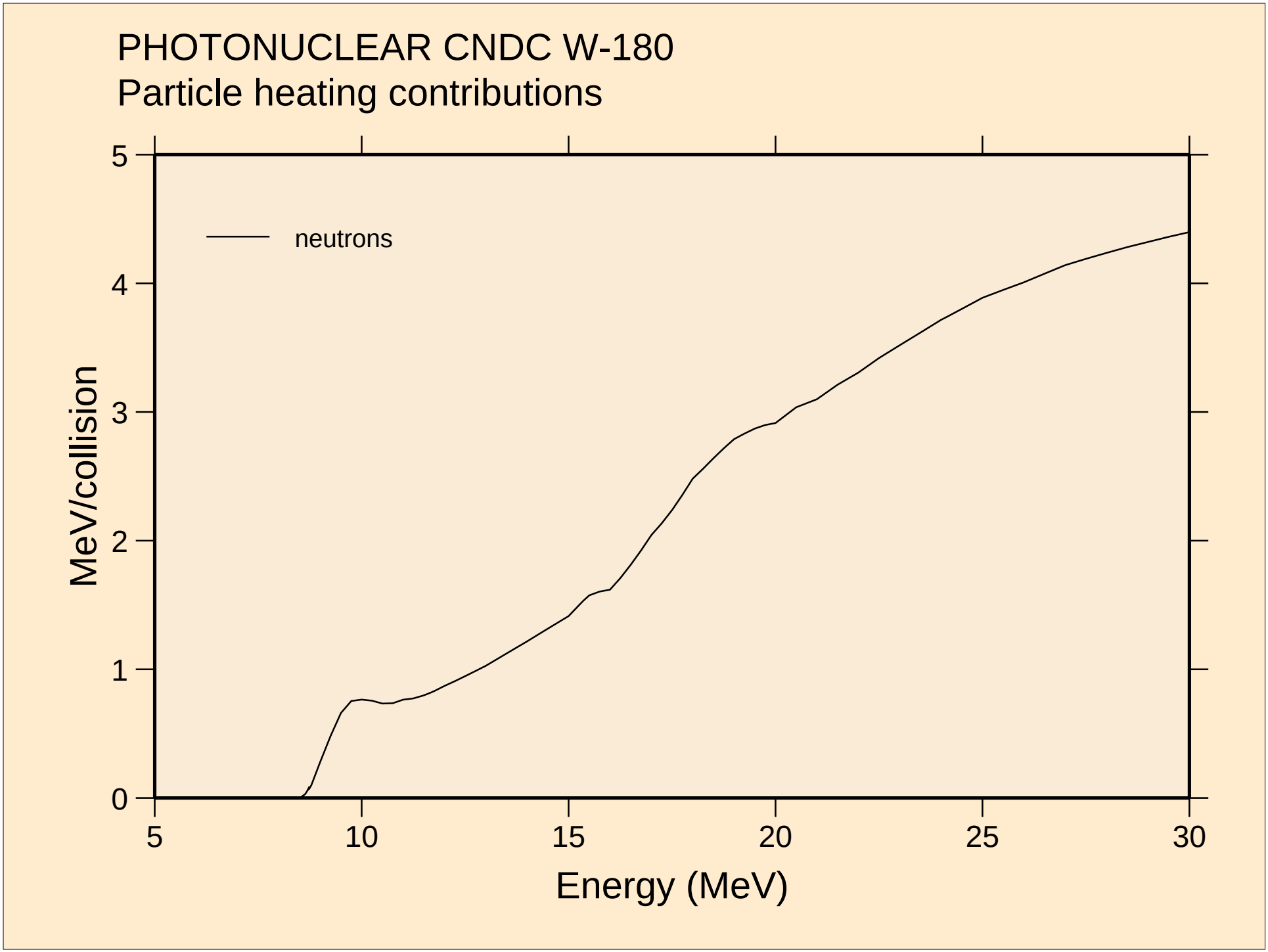
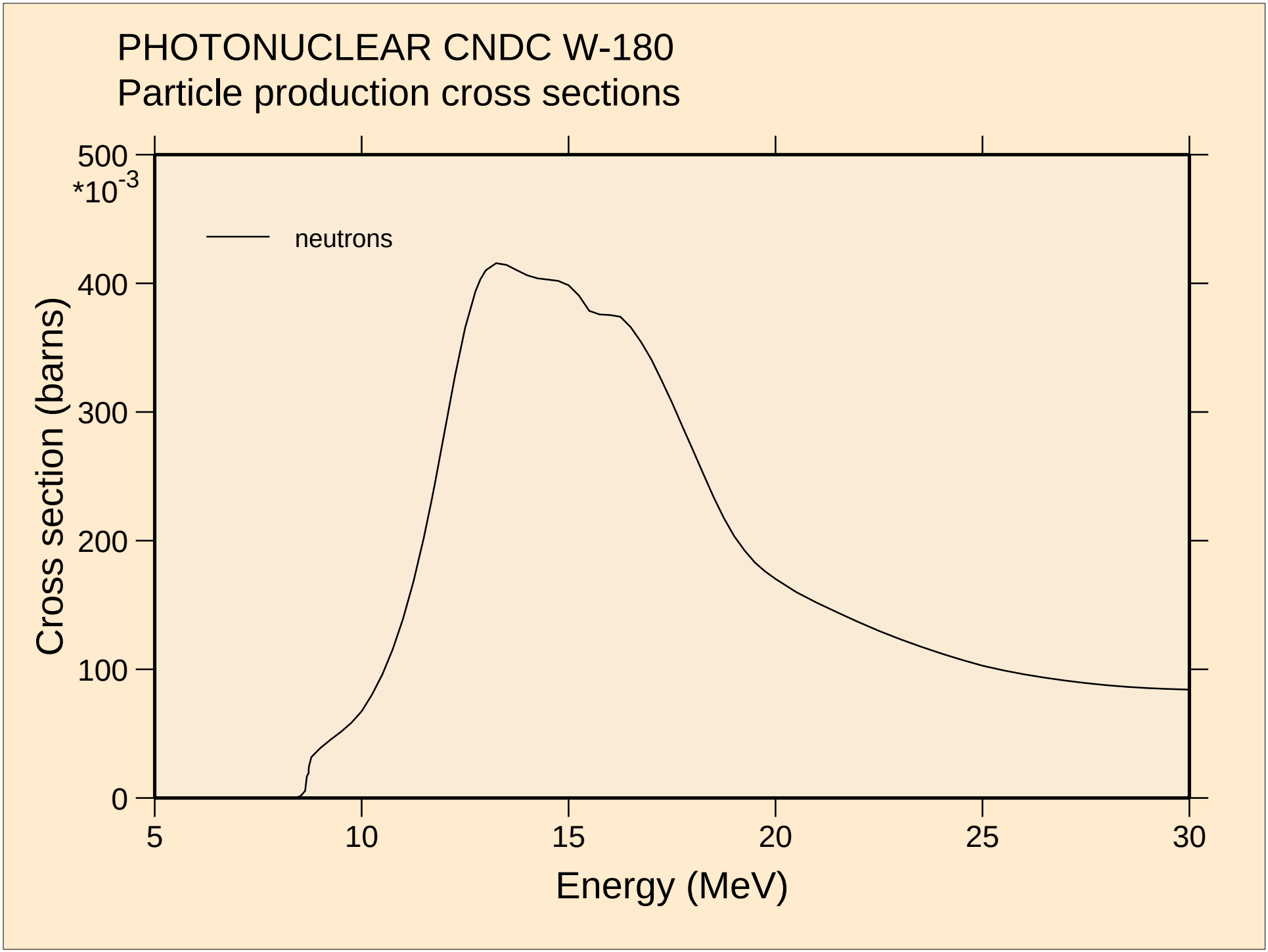
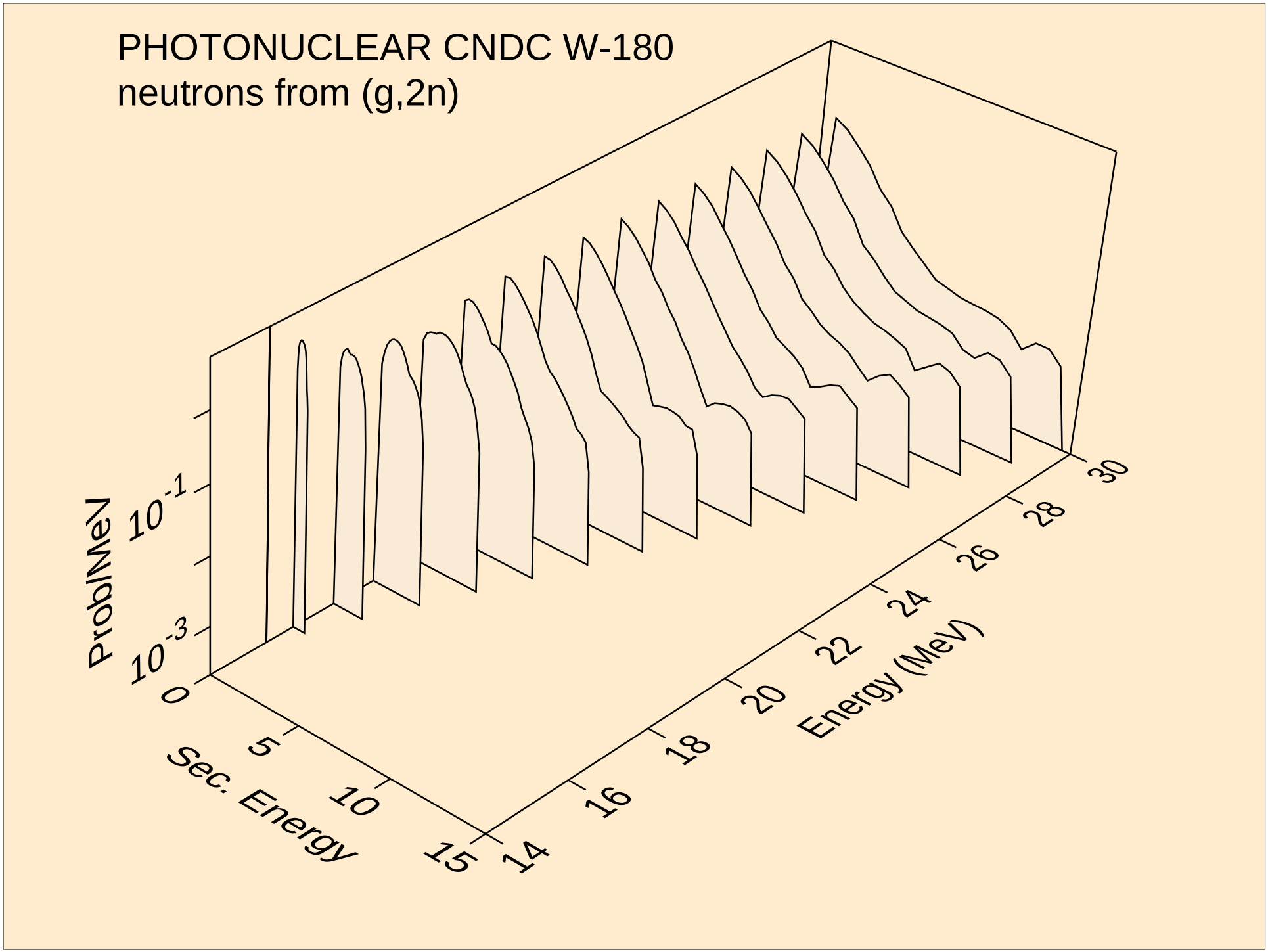

PHOTONUCLEAR CNDC W-180
Principal cross sections
500
*10-3
400
300
200
100
0
total
Cross section (barns)
5
10
15
20
25
30
Energy (MeV)

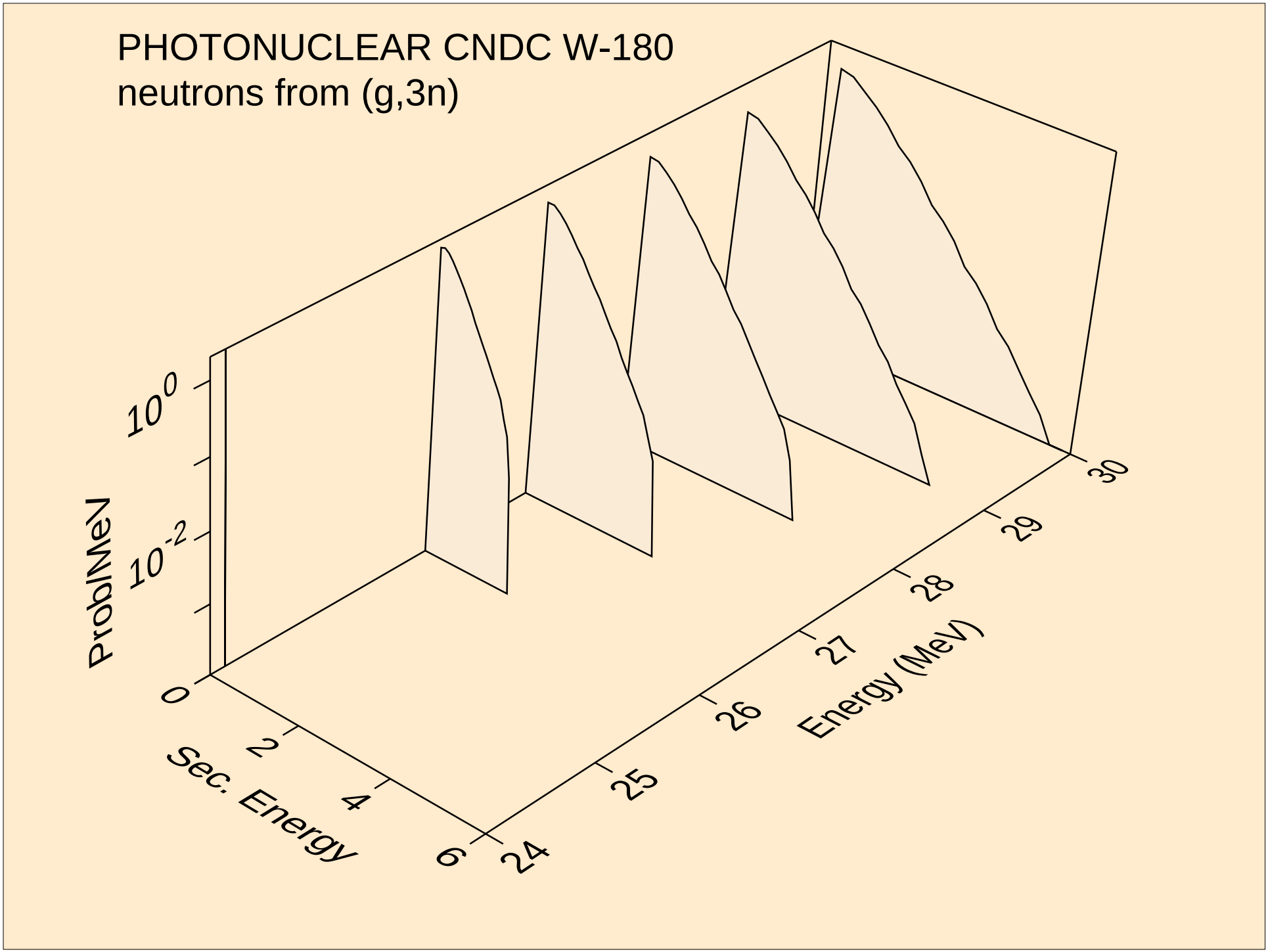

PHOTONUCLEAR CNDC W-180
Partial cross sections
Cross section (barns)
*10-3
500
400
300
200
100
0
5
10
15
20
25
30
Energy (MeV)
(g,2n)
(g,3n)
(g,n*)a
(g,n*)p
(g,n*0)
(g,n*1)
(g,n*2)
(g,n*3)
(g,n*4)
(g,n*5)
(g,n*6)
(g,n*7)
(g,n*c)
(g,gma)
(g,p)
(g,d)
(g,t)
(g,he3)
(g,a)
(g,2p)

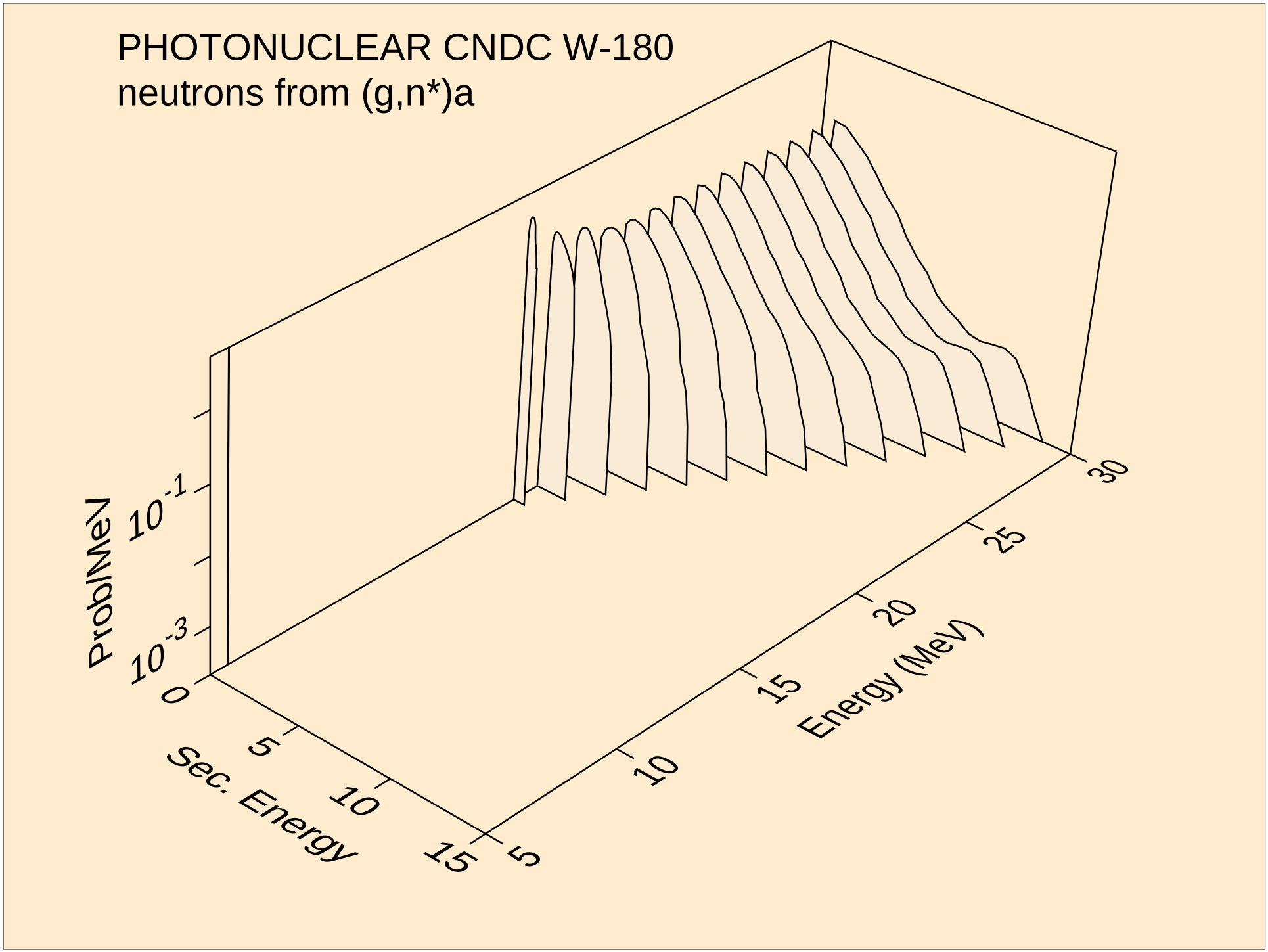

PHOTONUCLEAR CNDC W-180
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
20
5
10
15
20
25
30

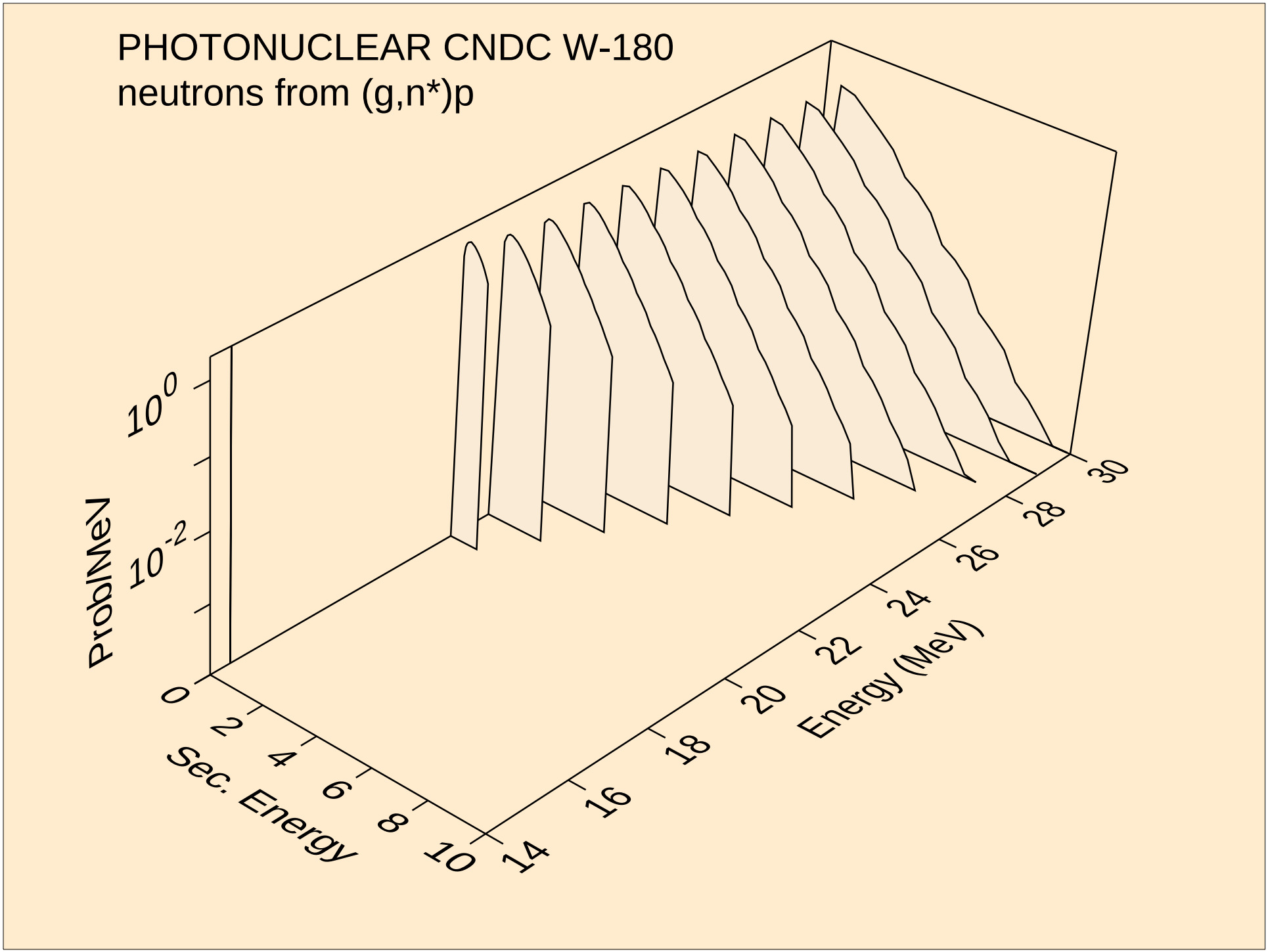

PHOTONUCLEAR CNDC W-180
Particle heating contributions
neutrons
MeV/collision
0
1
2
3
4
5
5
10
15
20
25
30
Energy (MeV)

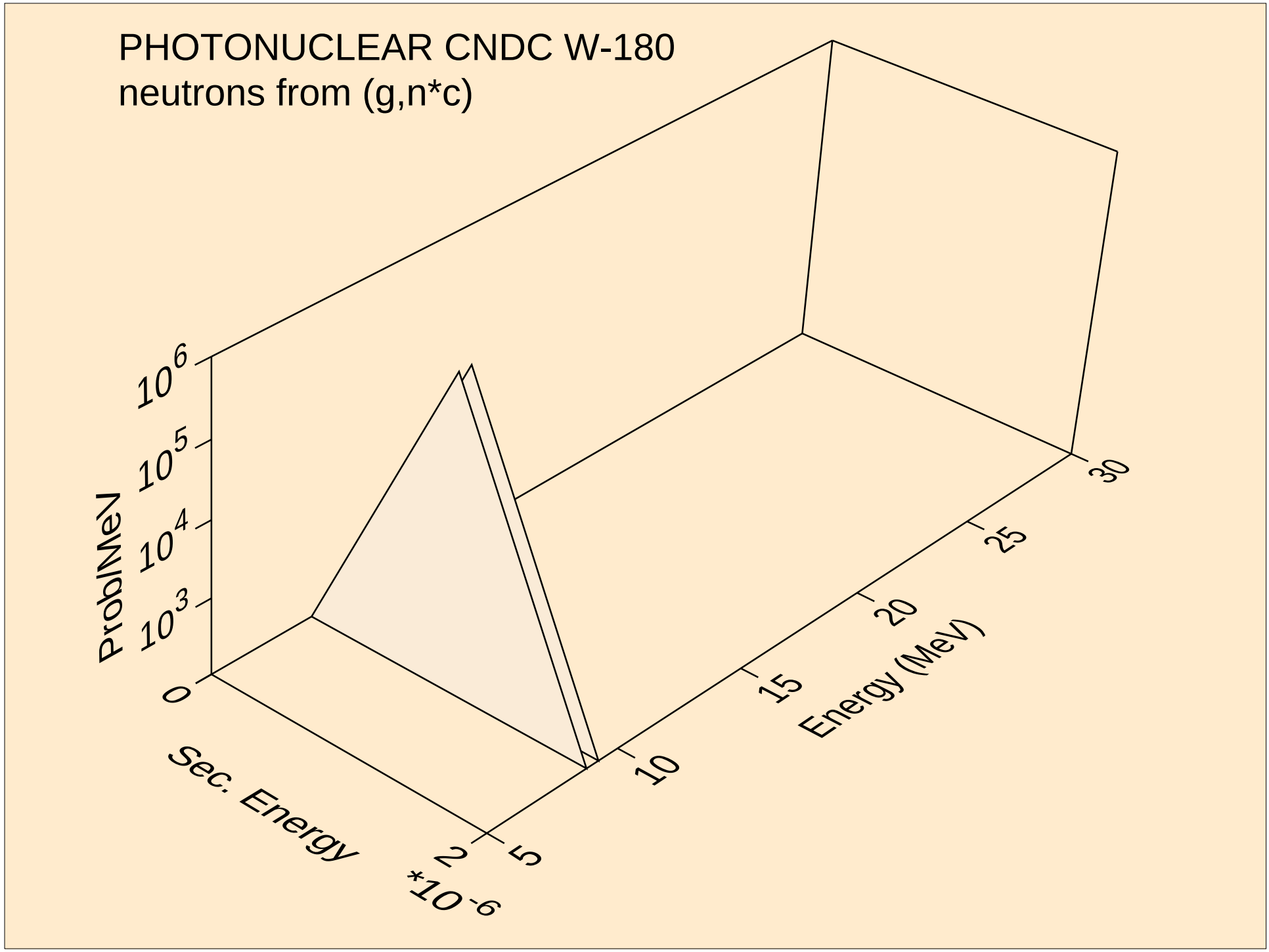

PHOTONUCLEAR CNDC W-180
Particle production cross sections
500
*10-3
400
300
200
100
0
neutrons
Cross section (barns)
5
10
15
20
25
30
Energy (MeV)


PHOTONUCLEAR CNDC W-180
neutrons from (g,2n)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)


PHOTONUCLEAR CNDC W-180
neutrons from (g,3n)
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
Sec. Energy
24
25
26
27
28
29
30
Energy (MeV)


PHOTONUCLEAR CNDC W-180
neutrons from (g,n*)a
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
5
10
15
20
25
30
Energy (MeV)


PHOTONUCLEAR CNDC W-180
neutrons from (g,n*)p
Prob/MeV
10^0
10^-2
0
2
4
6
8
10
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)


PHOTONUCLEAR CNDC W-180
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)