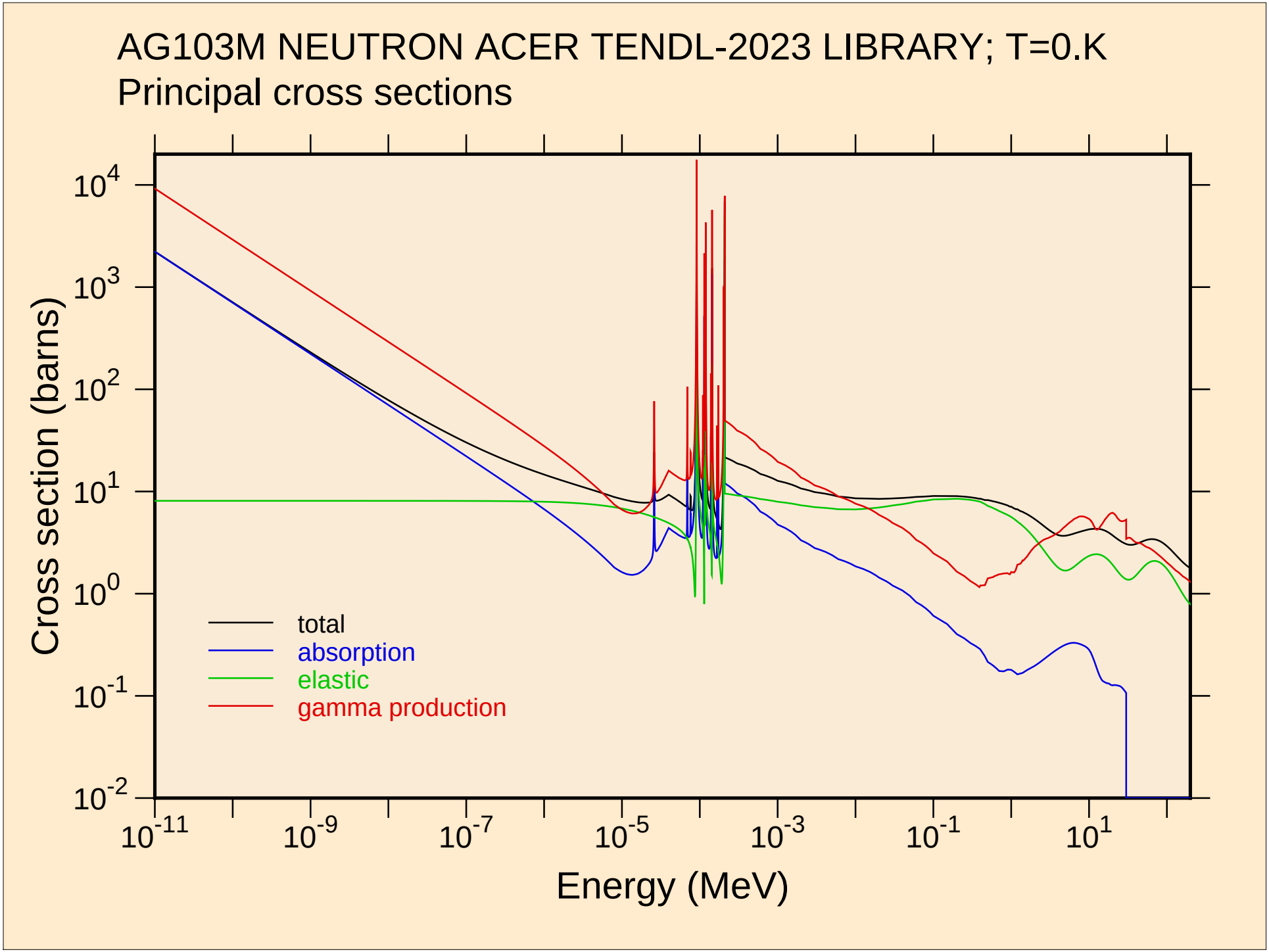
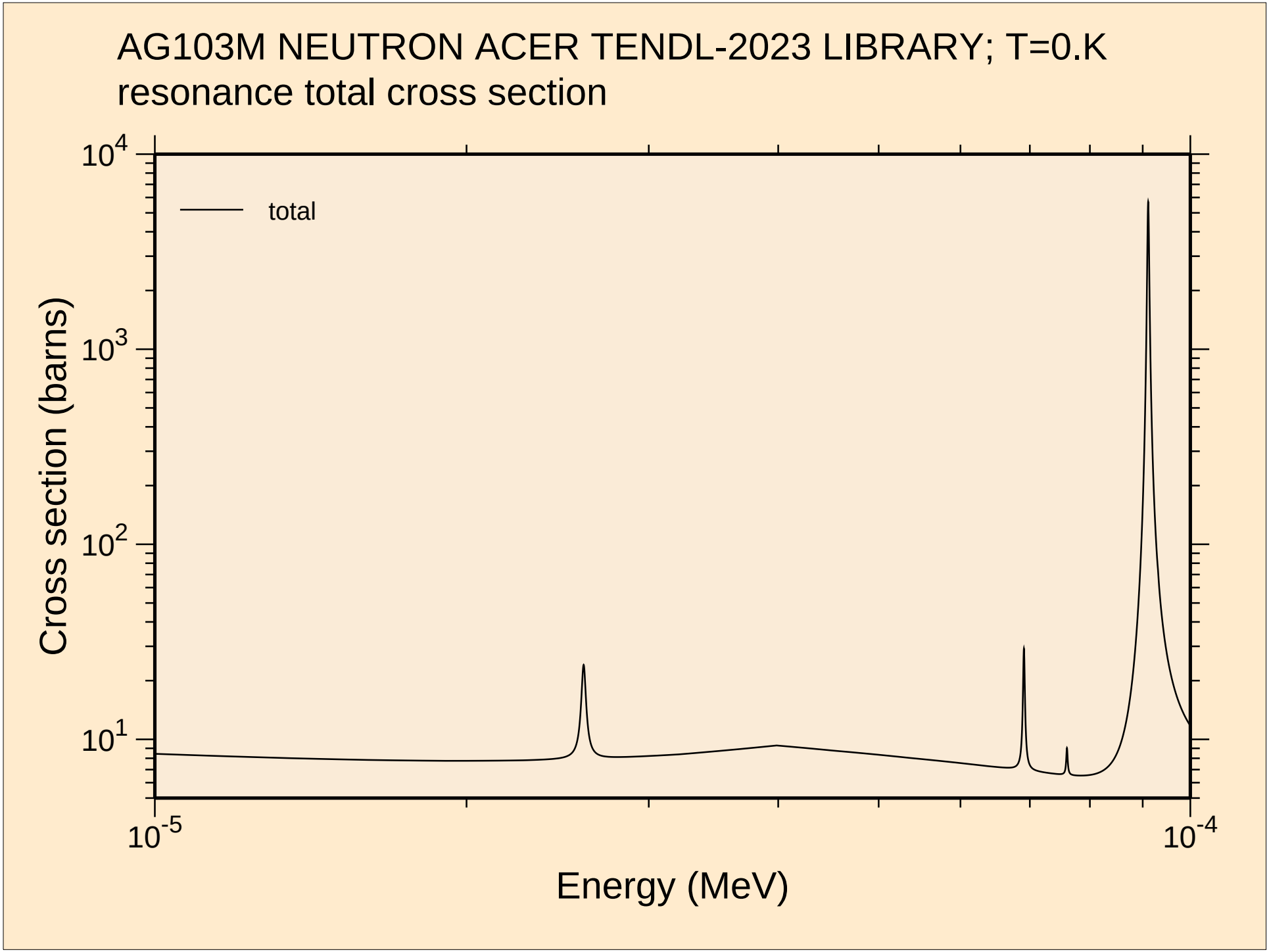
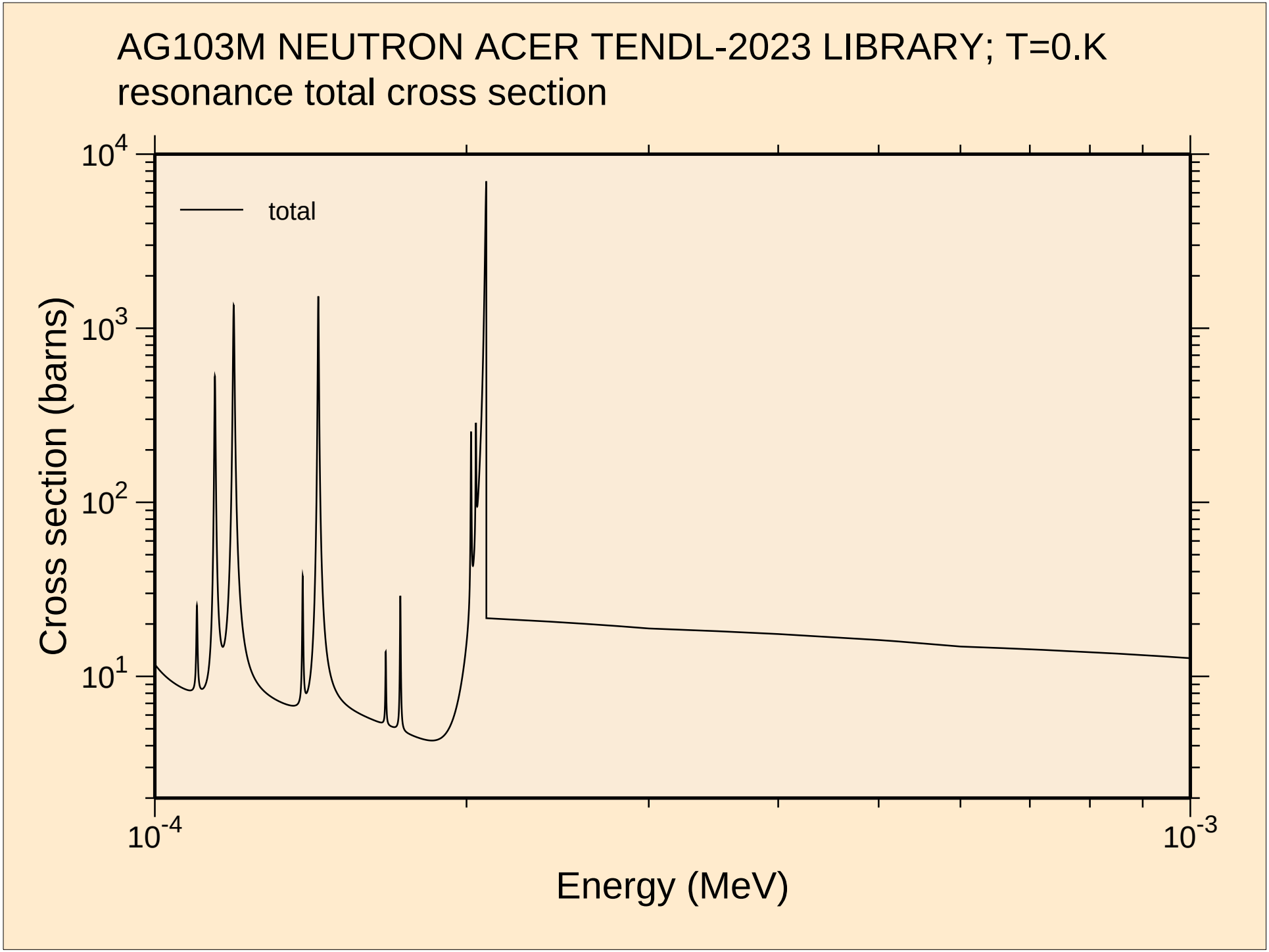
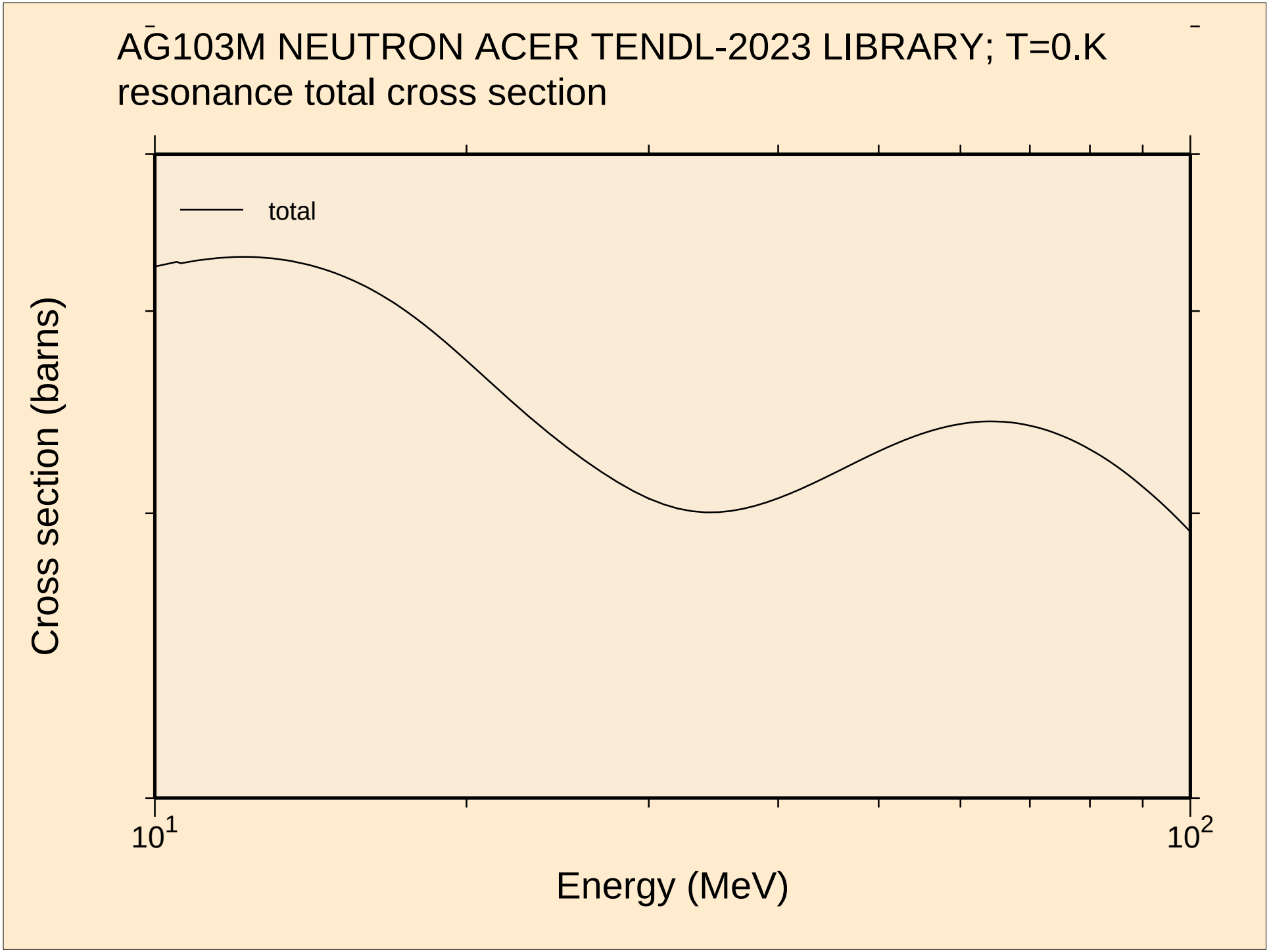
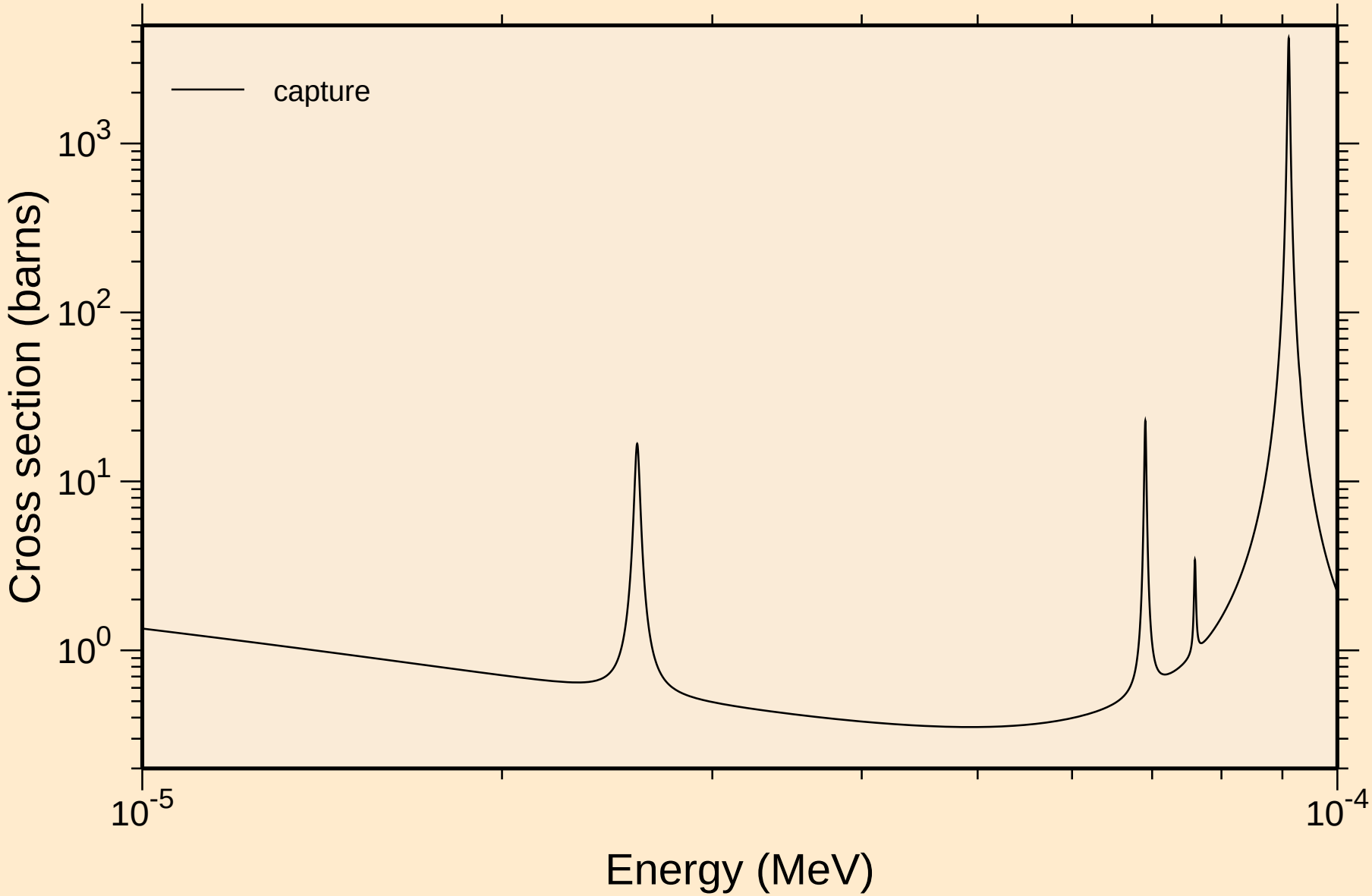

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)
total
absorption
elastic
gamma production


AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^1
10^-5
10^-4
Energy (MeV)

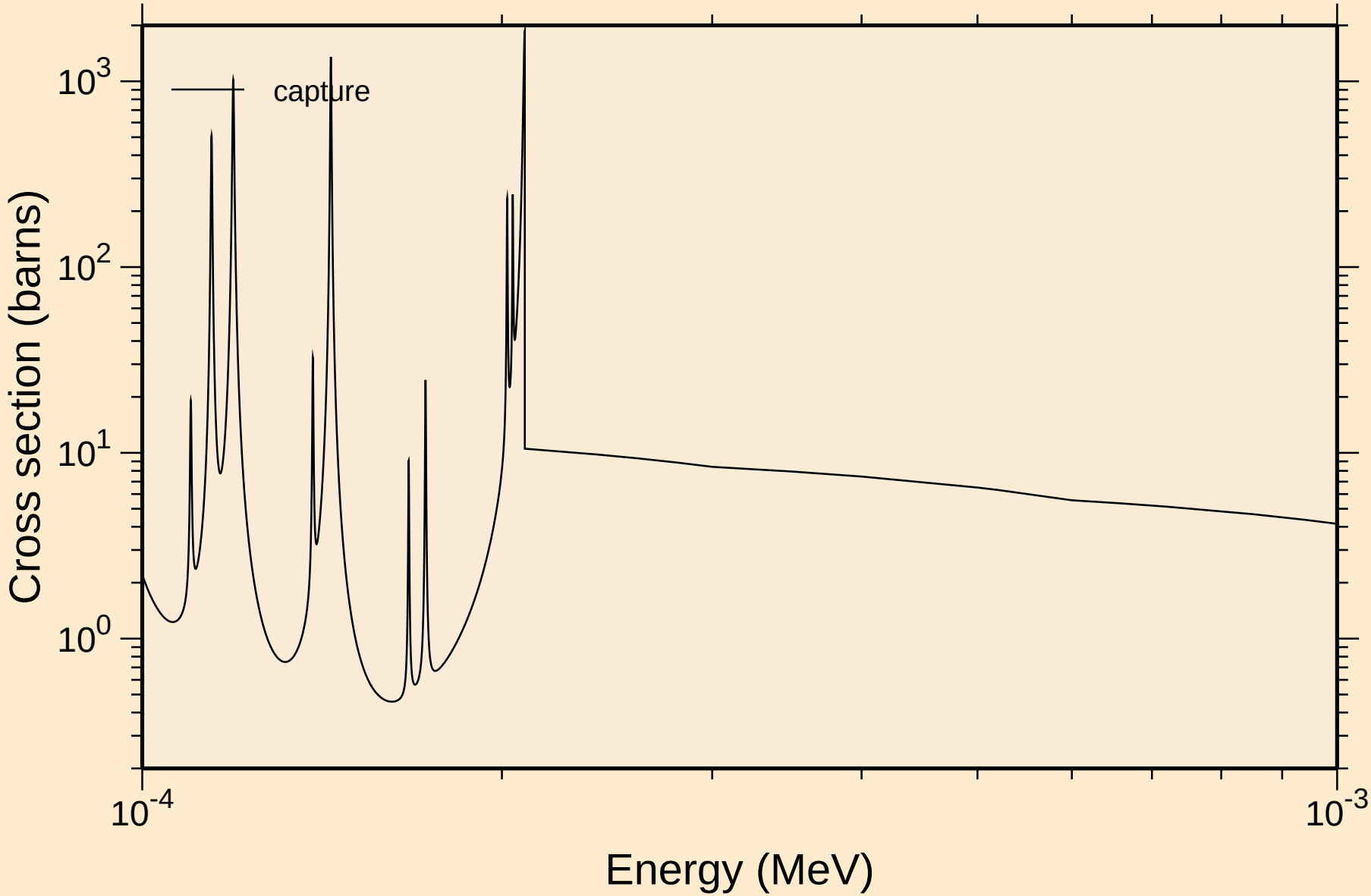

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance total cross section
total
Cross section (barns)
10^4
10^3
10^2
10^1
10^{-4}
10^{-3}
Energy (MeV)

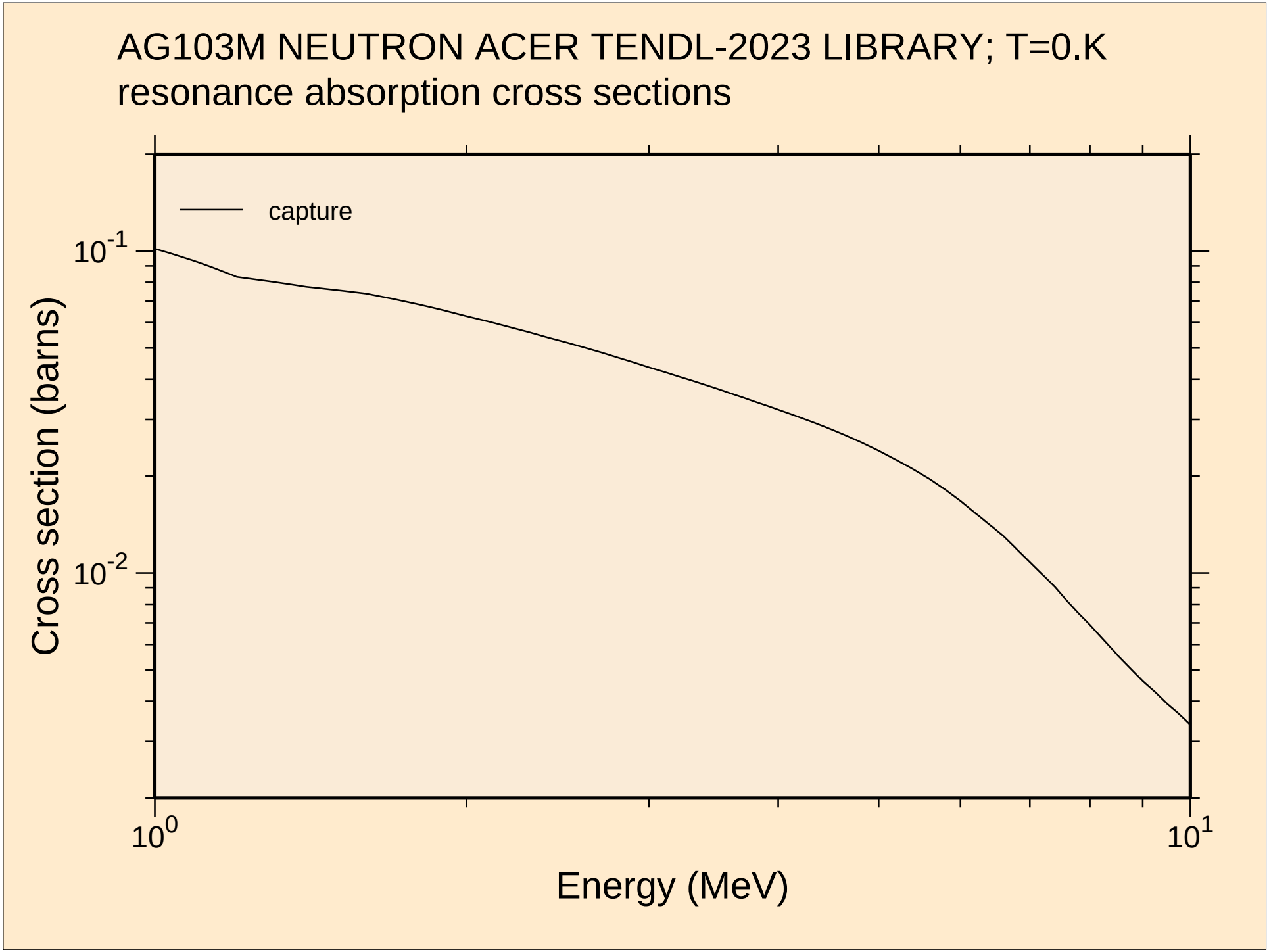

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance total cross section
total
Cross section (barns)
10^1
10^2
Energy (MeV)

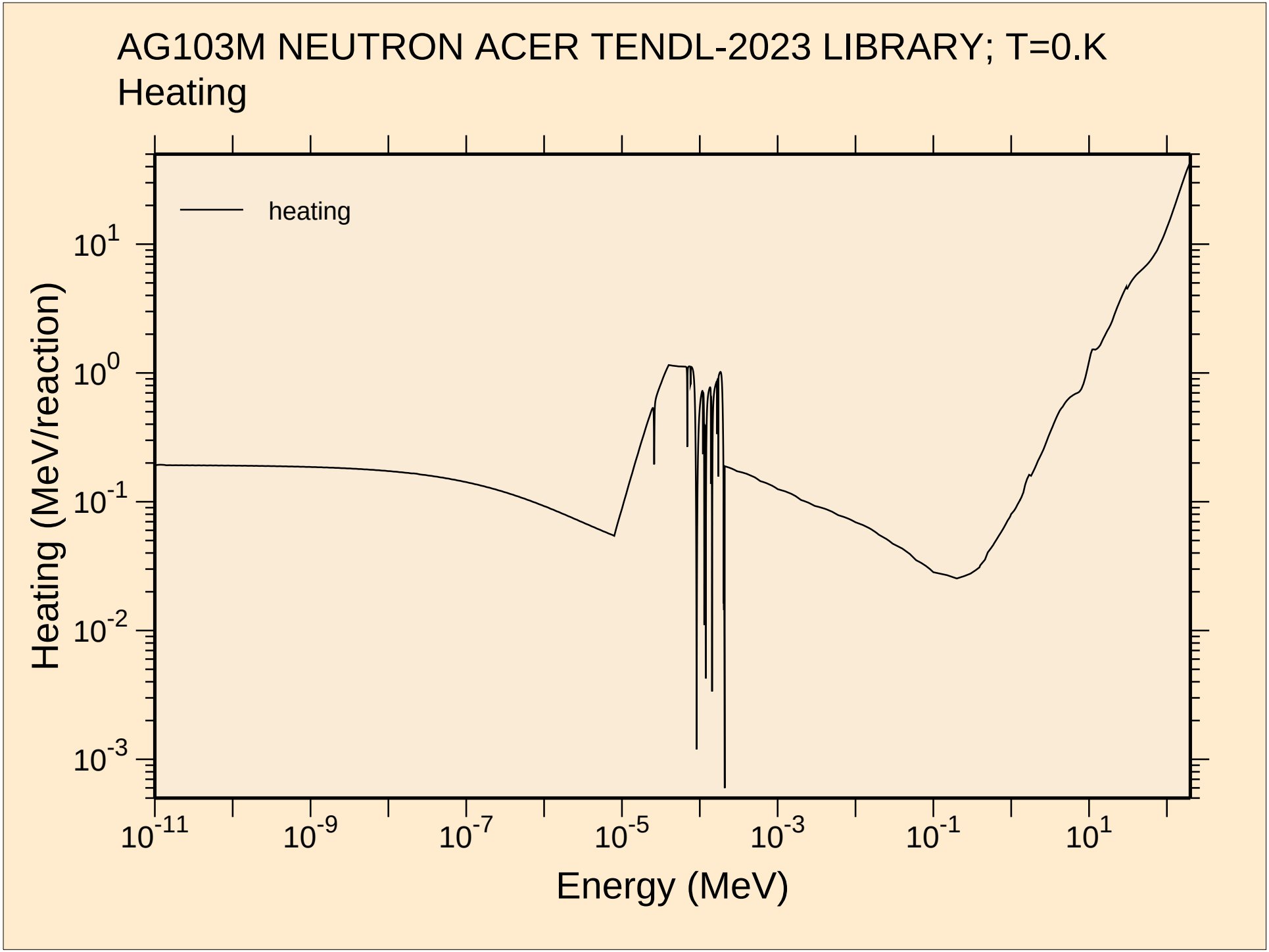
AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections

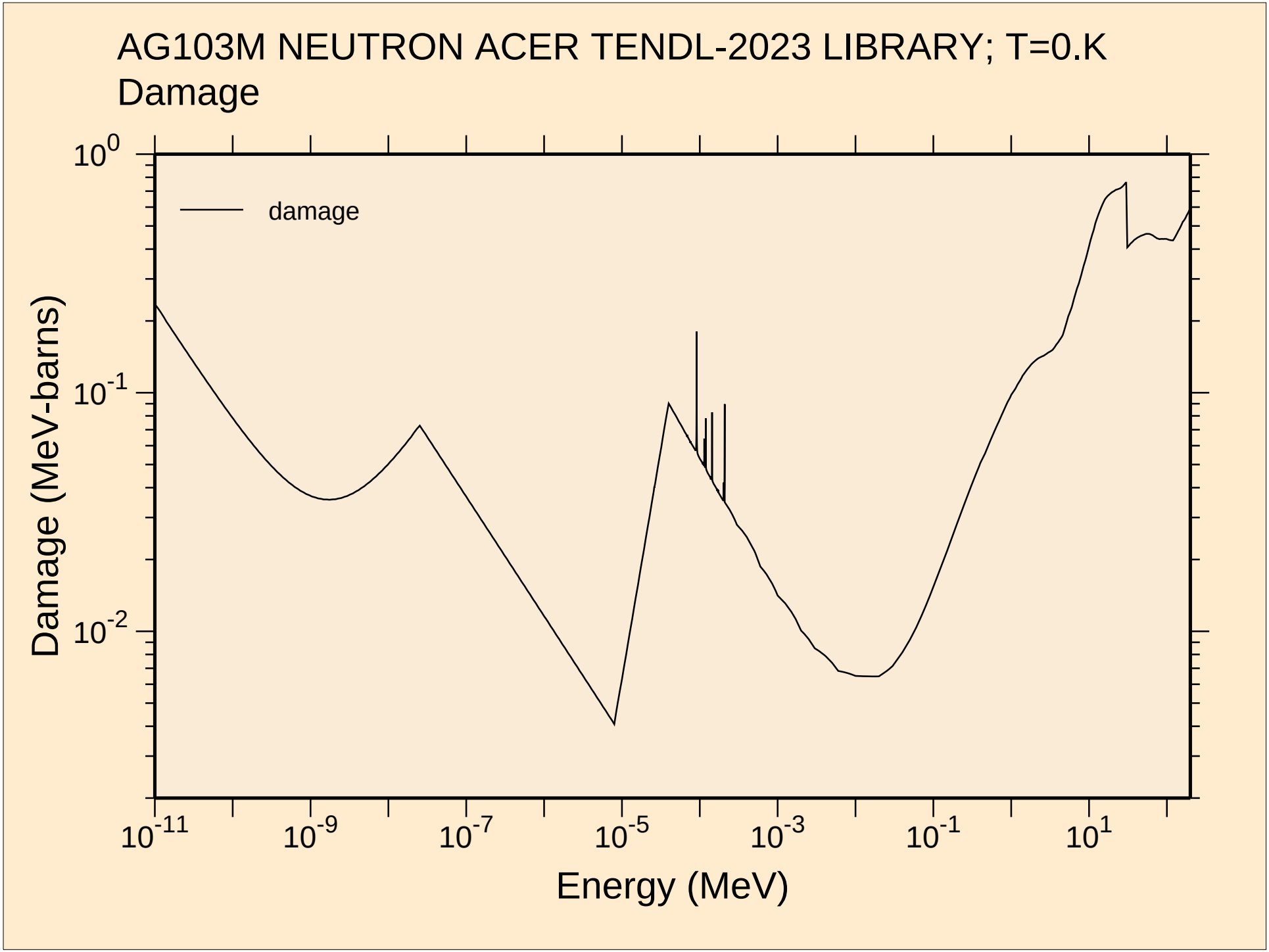


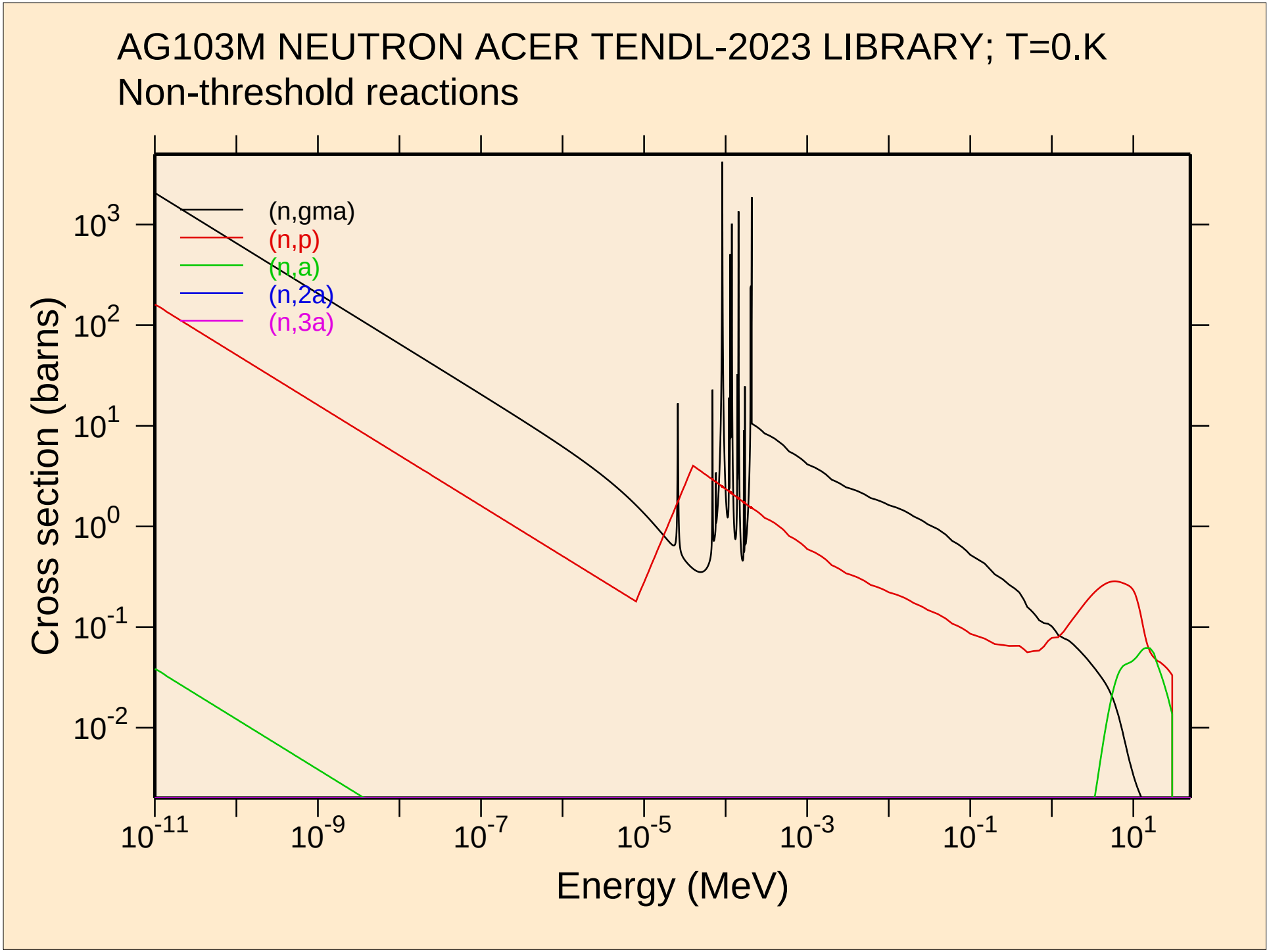
AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections

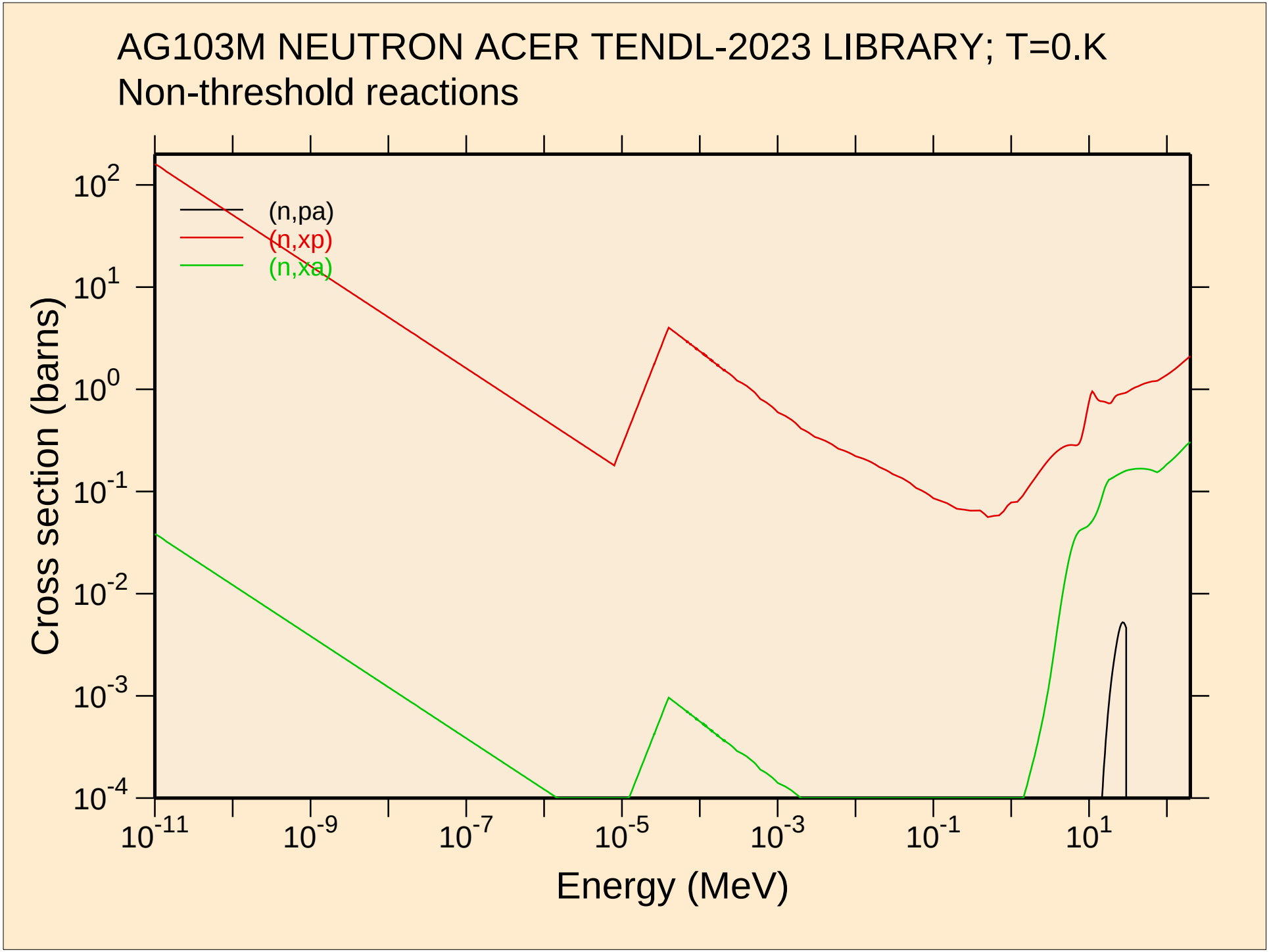


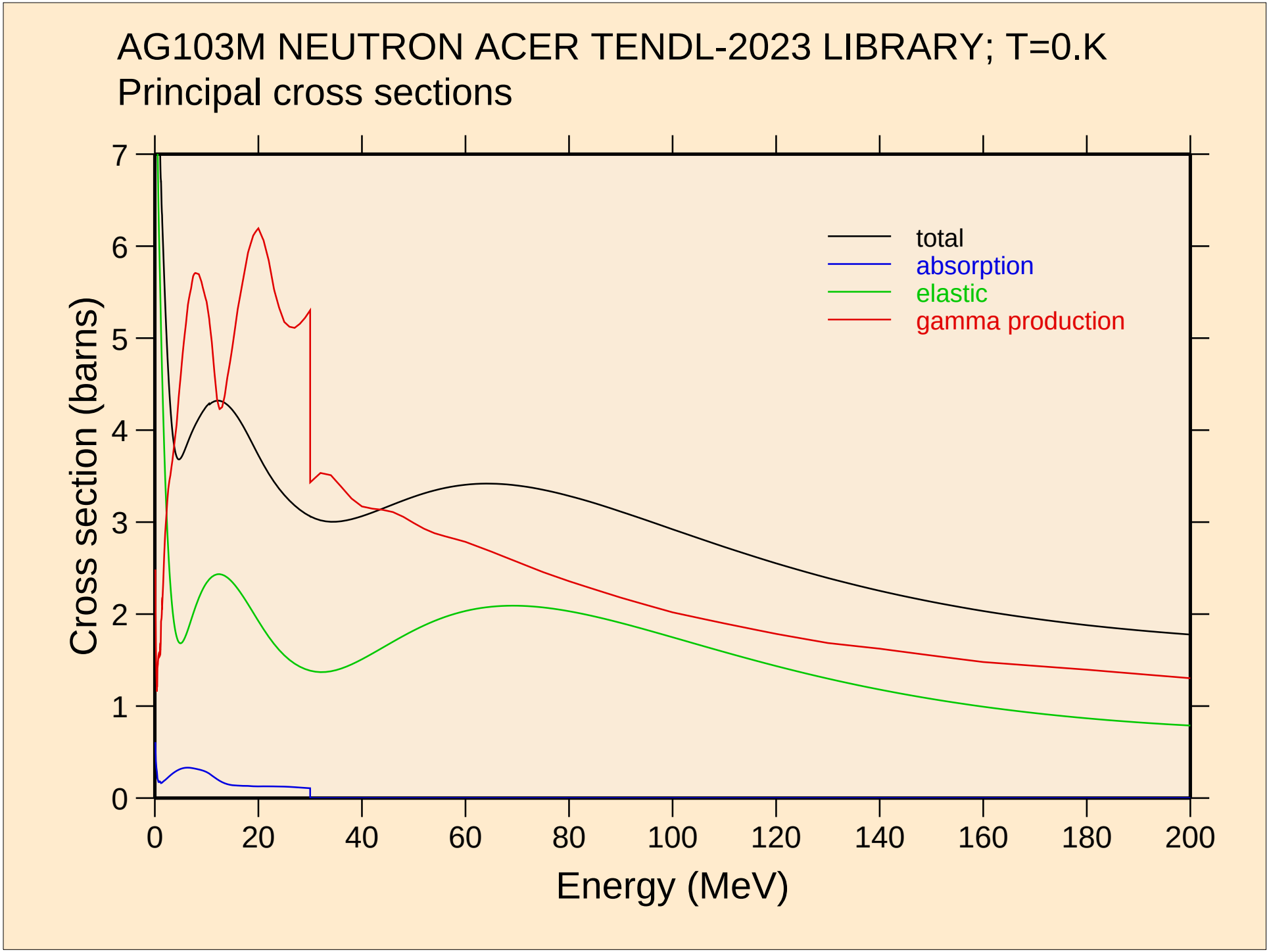

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections
capture
Cross section (barns)
10-1
10-2
100
101
Energy (MeV)

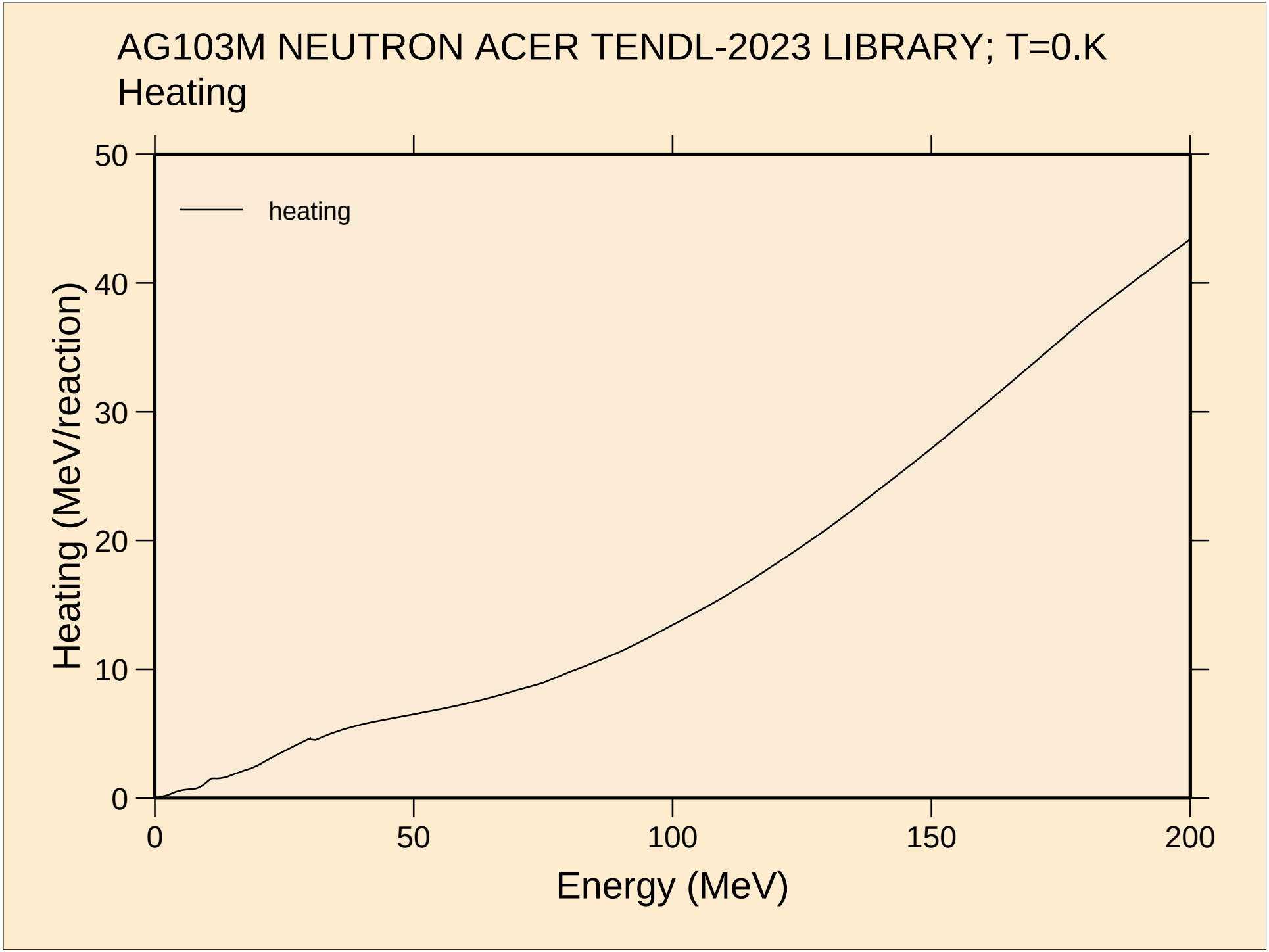

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

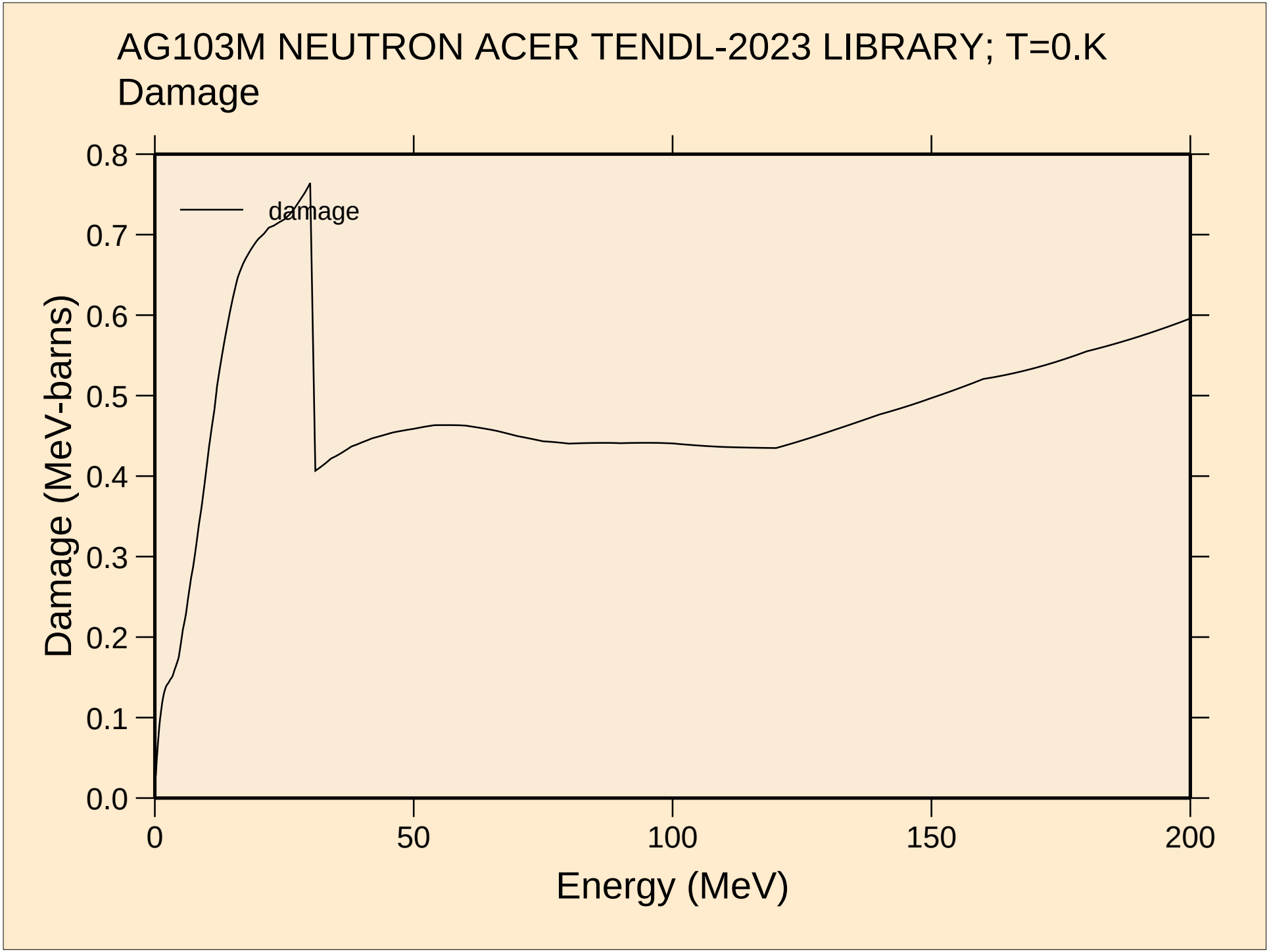

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Damage
damage
Damage (MeV-barns)
Energy (MeV)
10^0
10^-1
10^-2
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

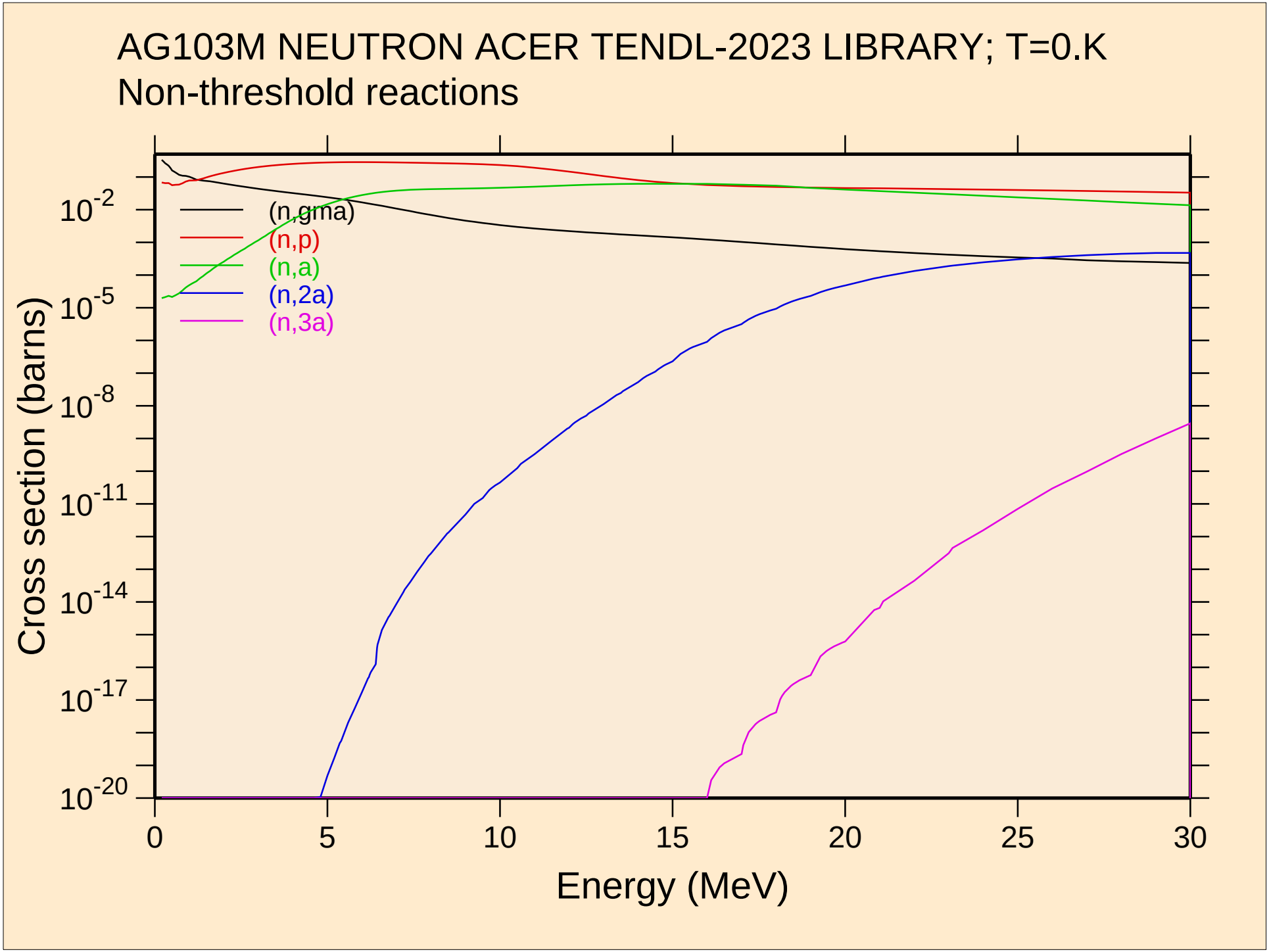

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,gma)
(n,p)
(n,a)
(n,2a)
(n,3a)
Cross section (barns)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

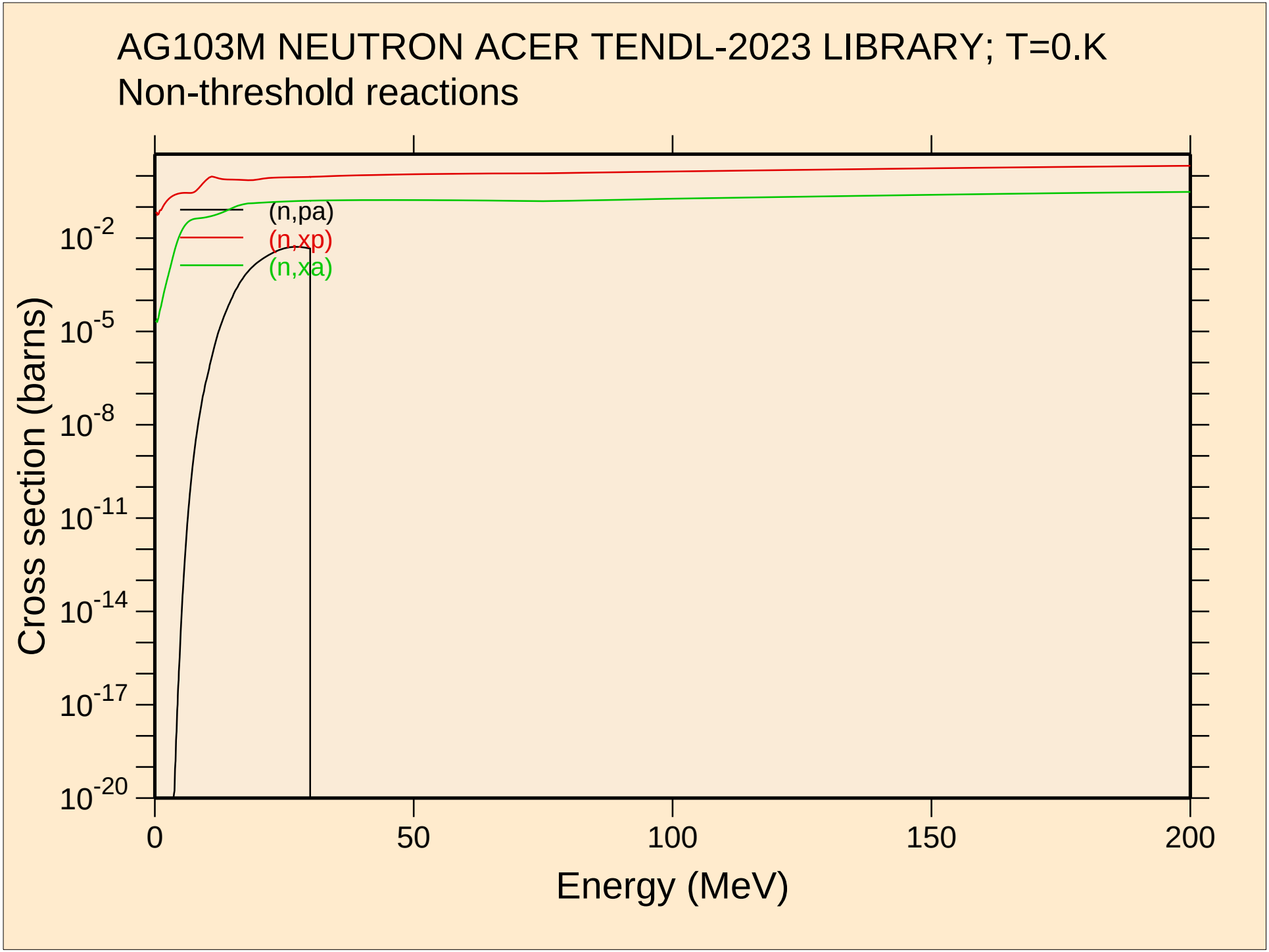

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,pa)
(n,xp)
(n,xa)
Cross section (barns)
Energy (MeV)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

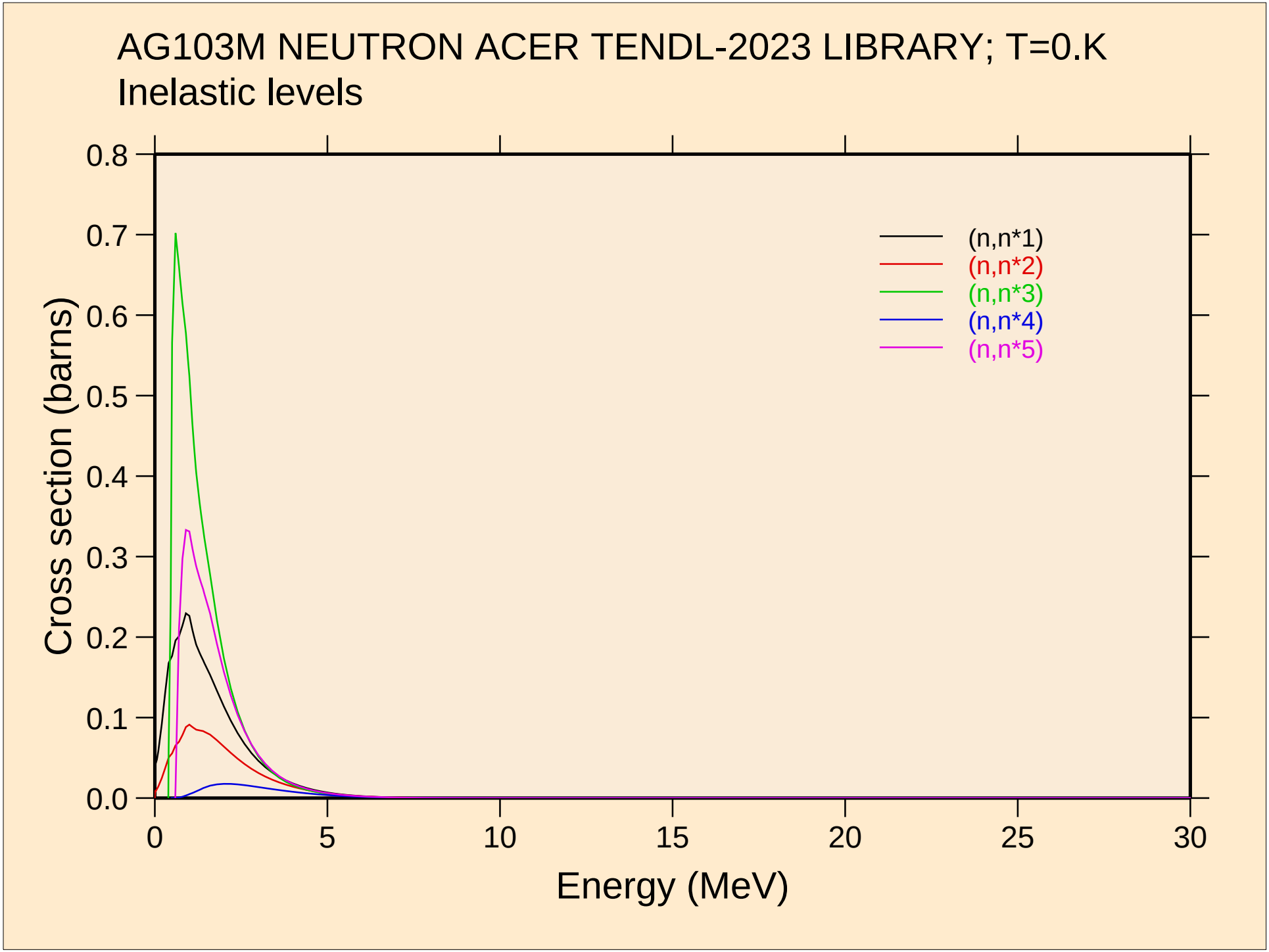

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
Energy (MeV)
0
1
2
3
4
5
6
7
0
20
40
60
80
100
120
140
160
180
200
total
absorption
elastic
gamma production

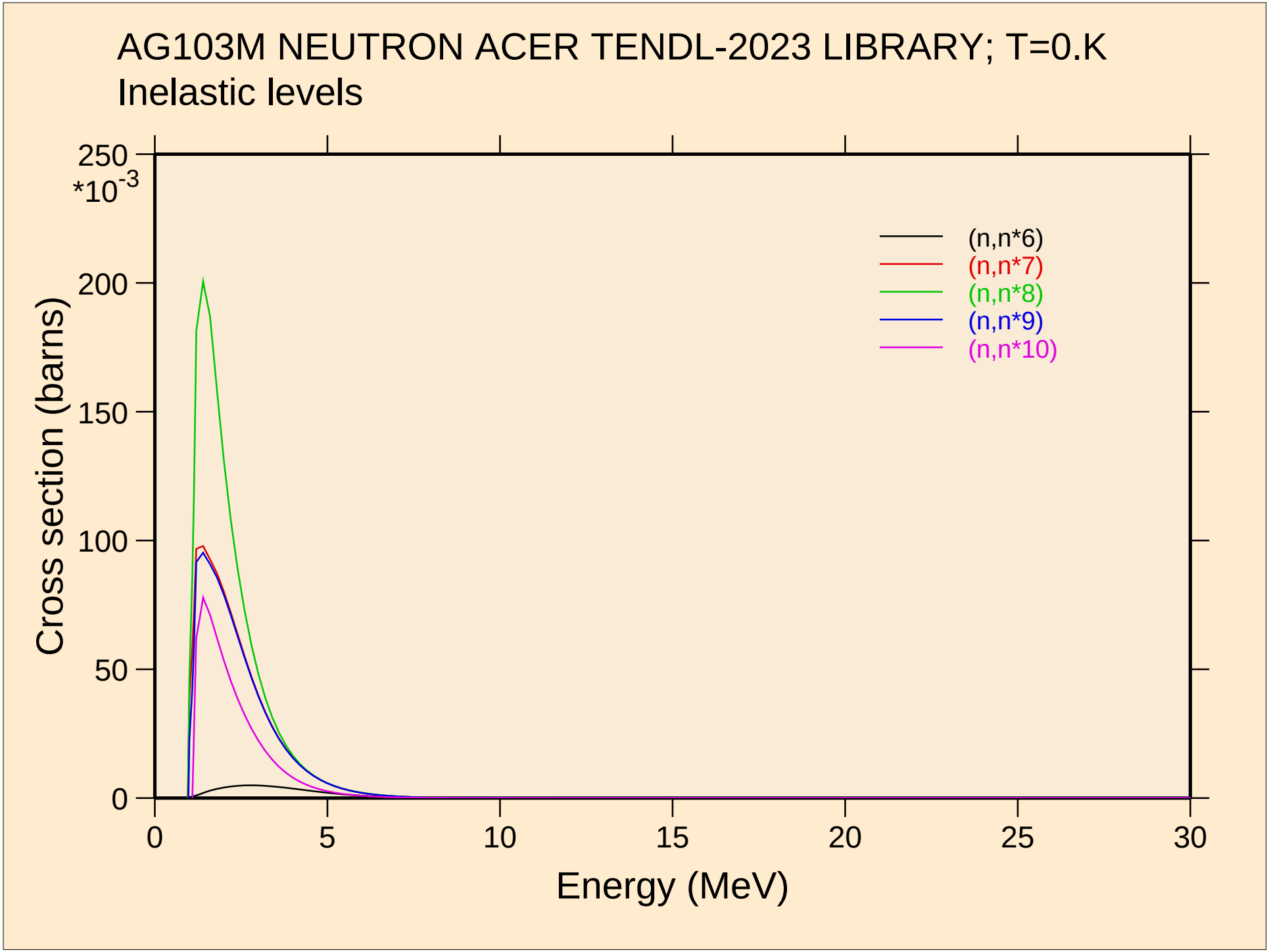

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
0
50
100
150
200

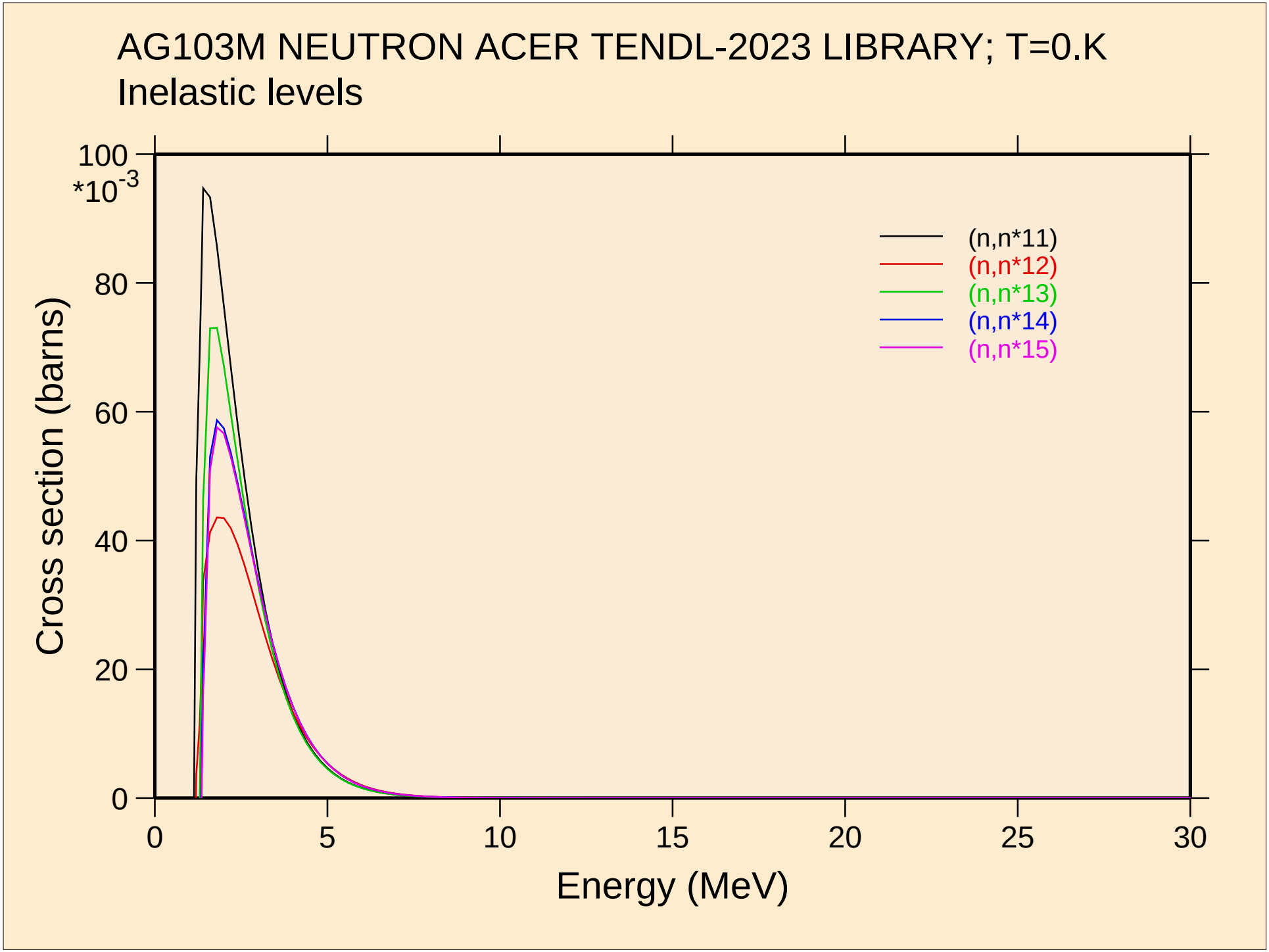

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Damage
damage
Damage (MeV-barns)
Energy (MeV)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
50
100
150
200

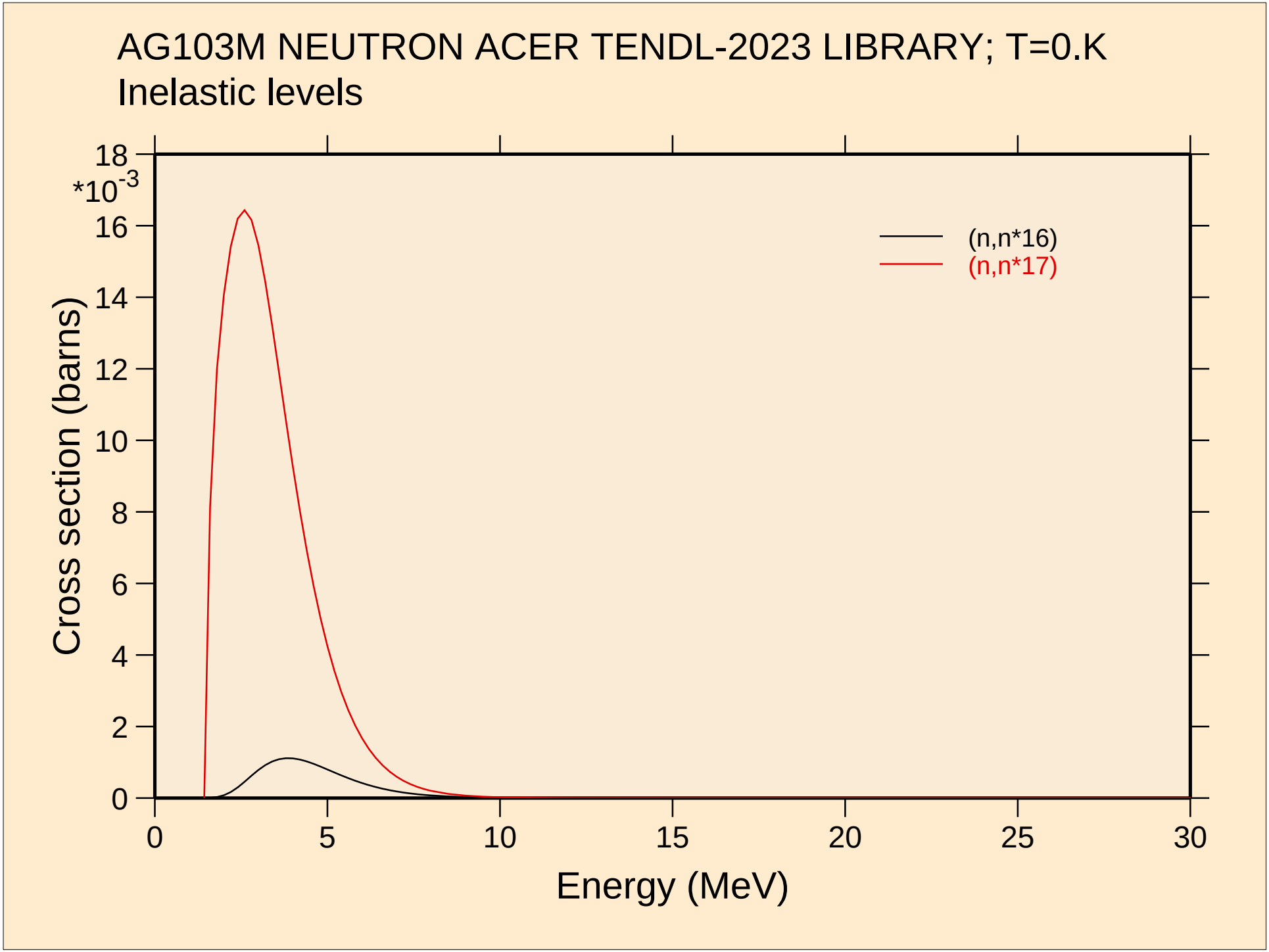

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
Cross section (barns)
Energy (MeV)
(n,gma)
(n,p)
(n,a)
(n,2a)
(n,3a)
10-2
10-5
10-8
10-11
10-14
10-17
10-20
0
5
10
15
20
25
30

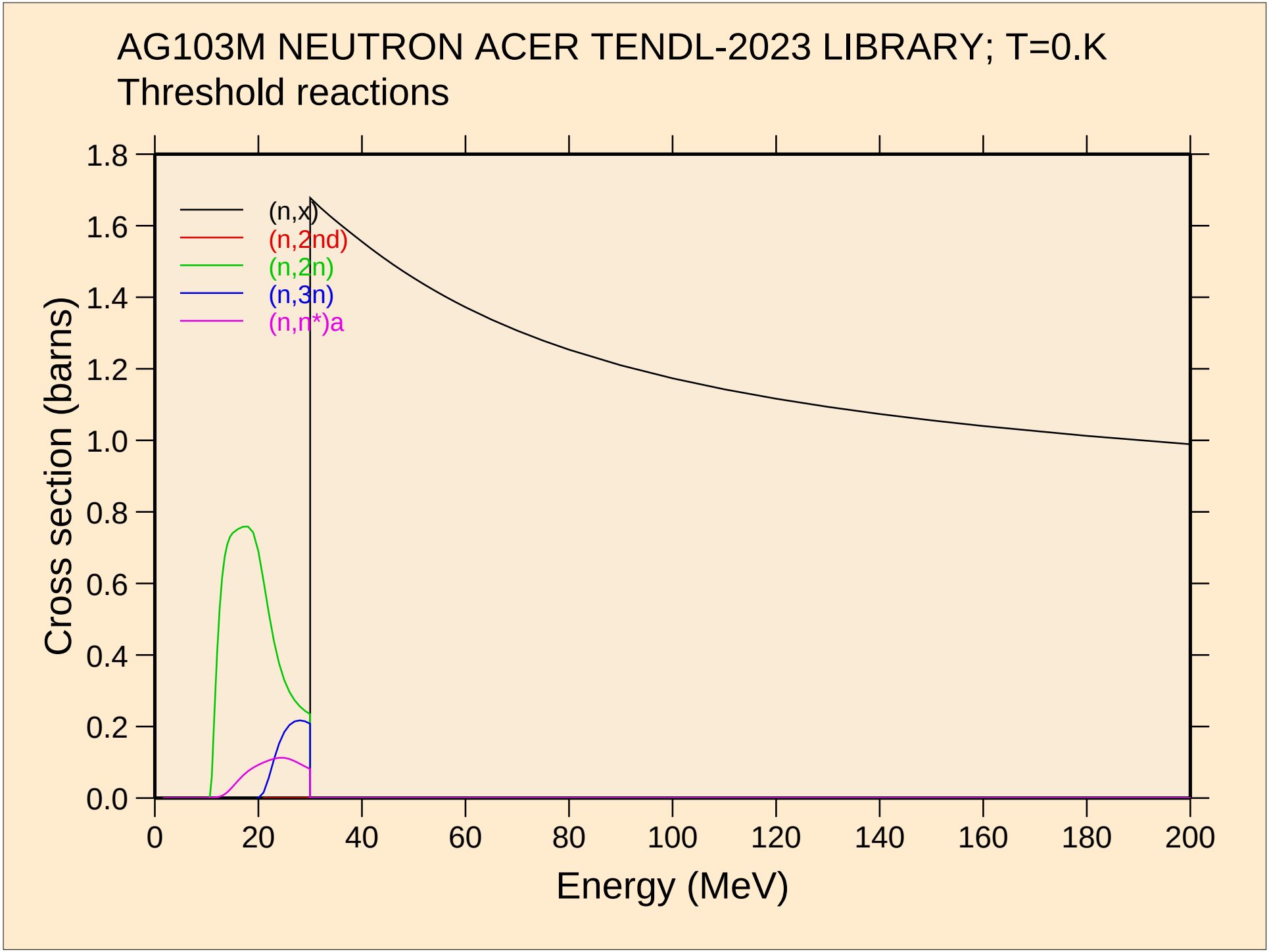

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,pa)
(n,xp)
(n,xa)
Cross section (barns)
10-2
10-5
10-8
10-11
10-14
10-17
10-20
0
50
100
150
200
Energy (MeV)

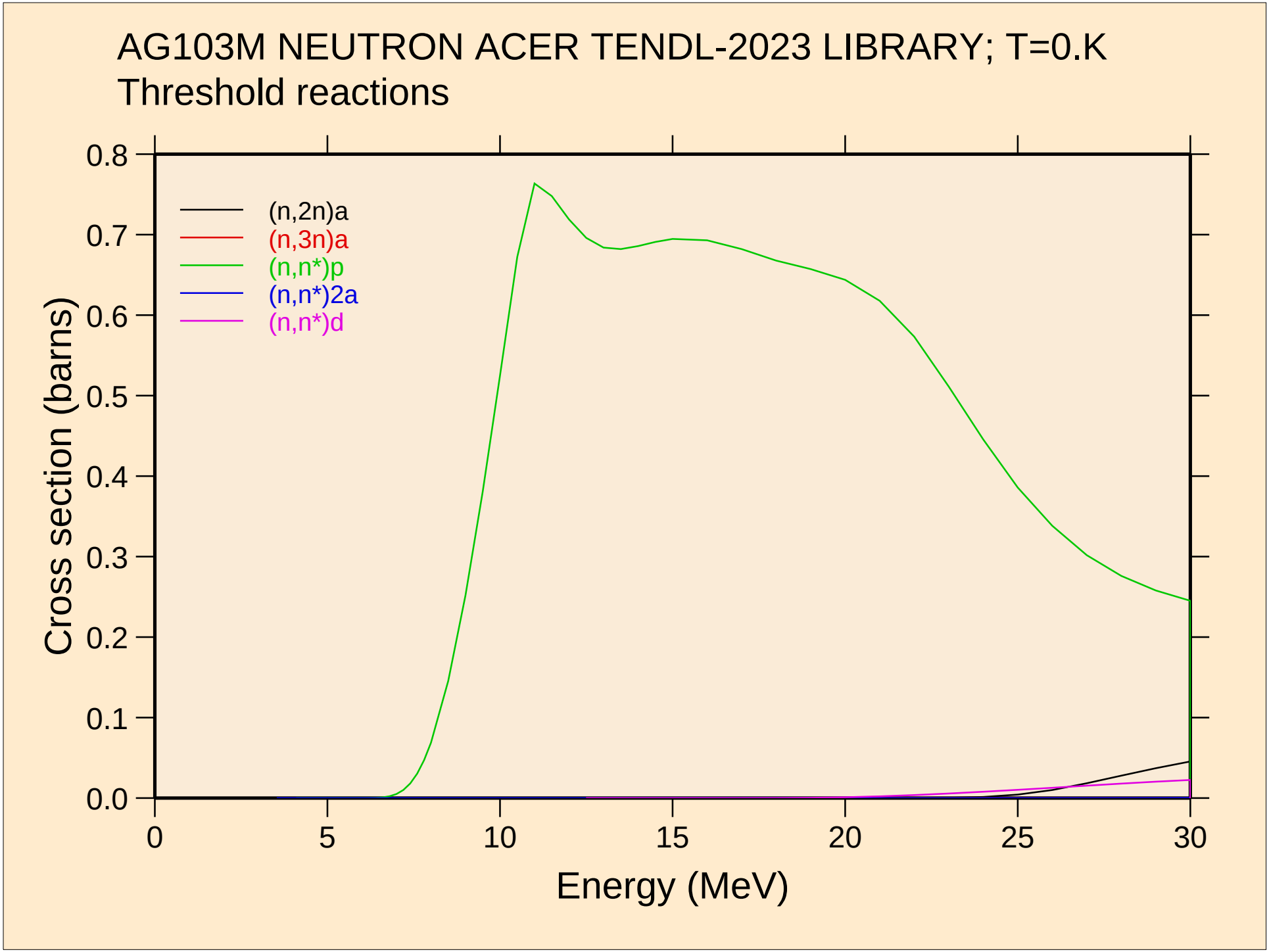

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels
Cross section (barns)
Energy (MeV)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
5
10
15
20
25
30
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

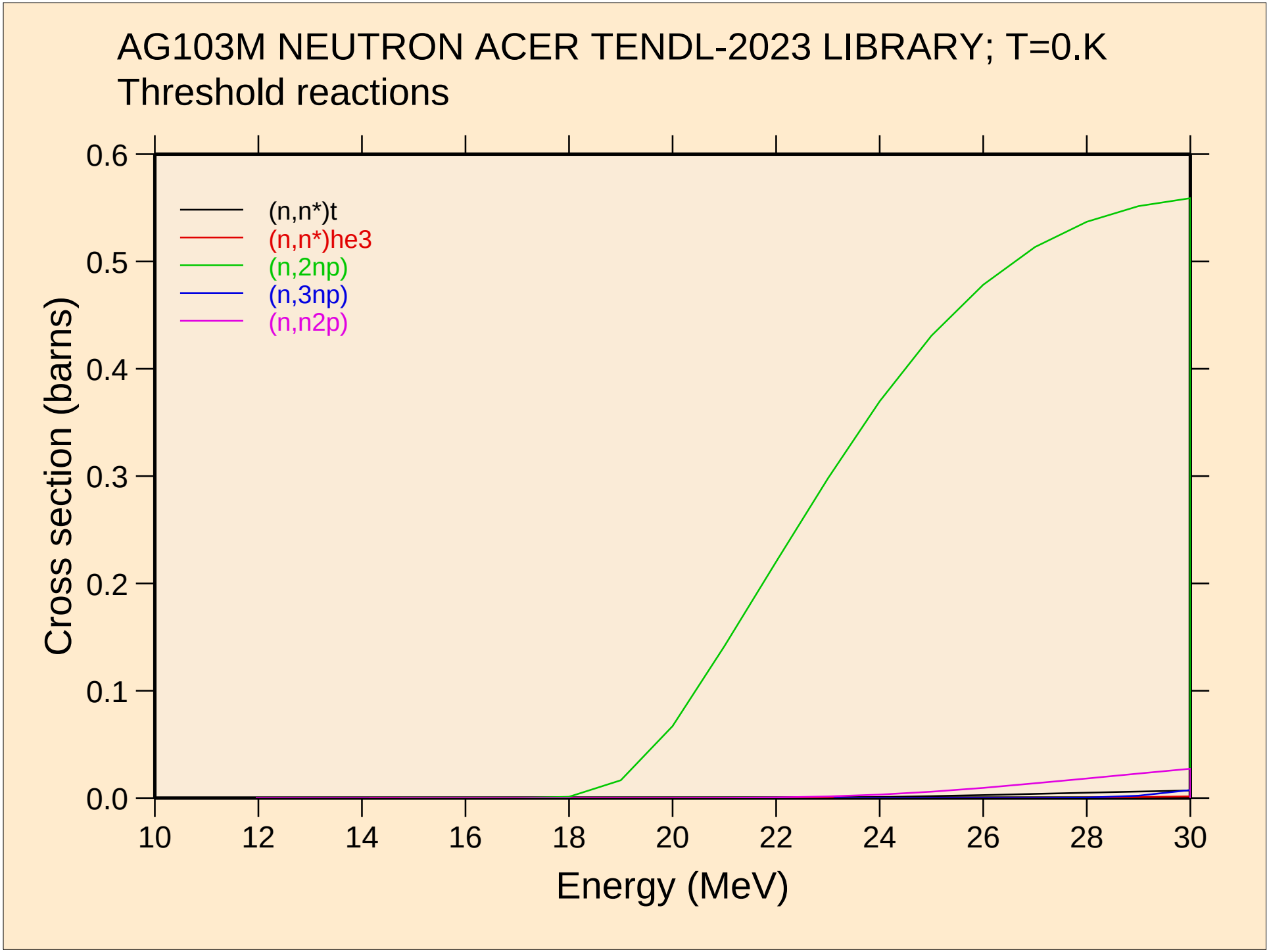

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels
250
*10-3
200
150
100
50
0
Cross section (barns)
0
5
10
15
20
25
30
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

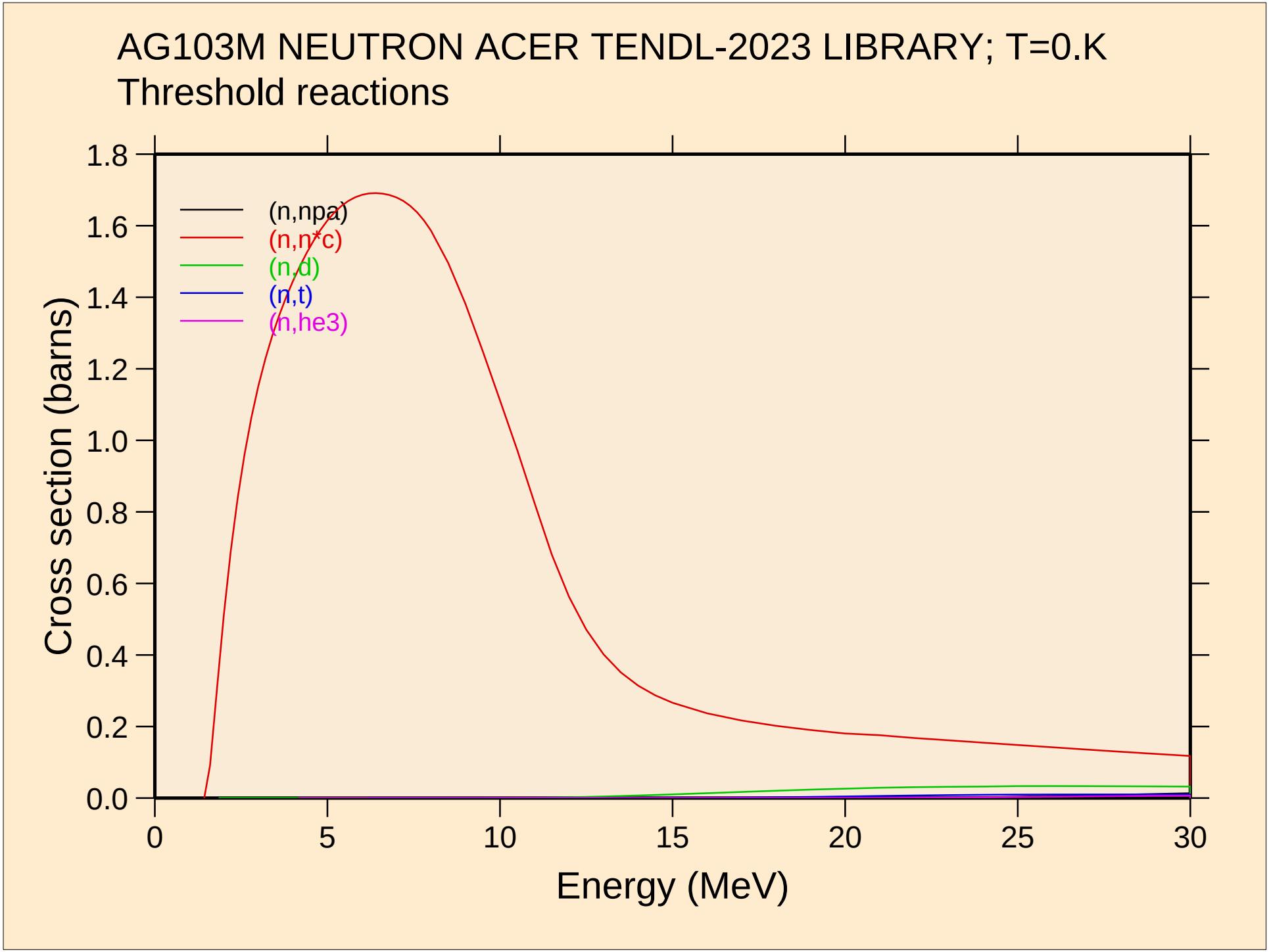

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels
100
*10-3
80
60
40
20
0
Cross section (barns)
0
5
10
15
20
25
30
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

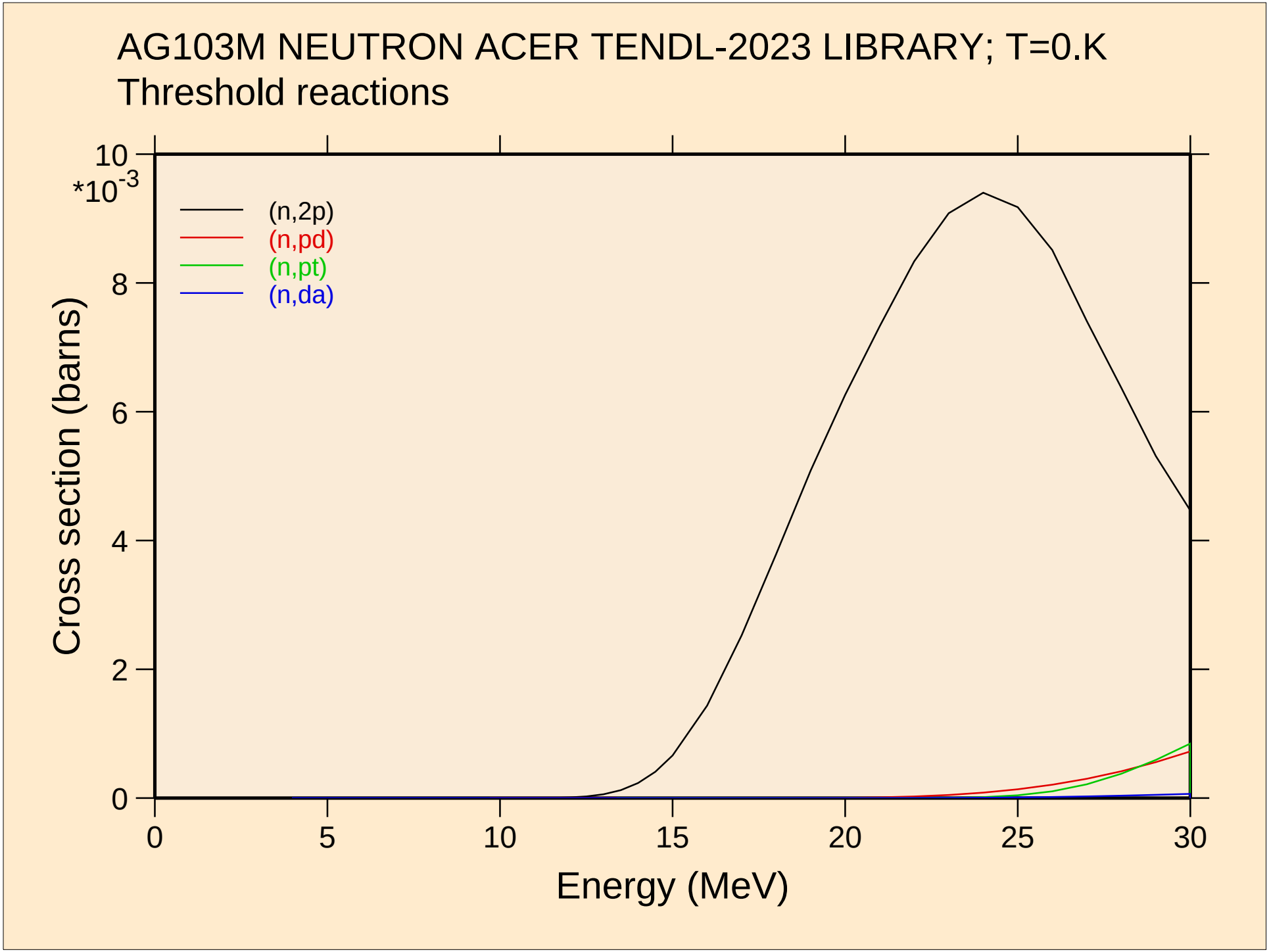

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels
Cross section (barns)
*10-3
18
16
14
12
10
8
6
4
2
0
0
5
10
15
20
25
30
Energy (MeV)
(n,n*16)
(n,n*17)

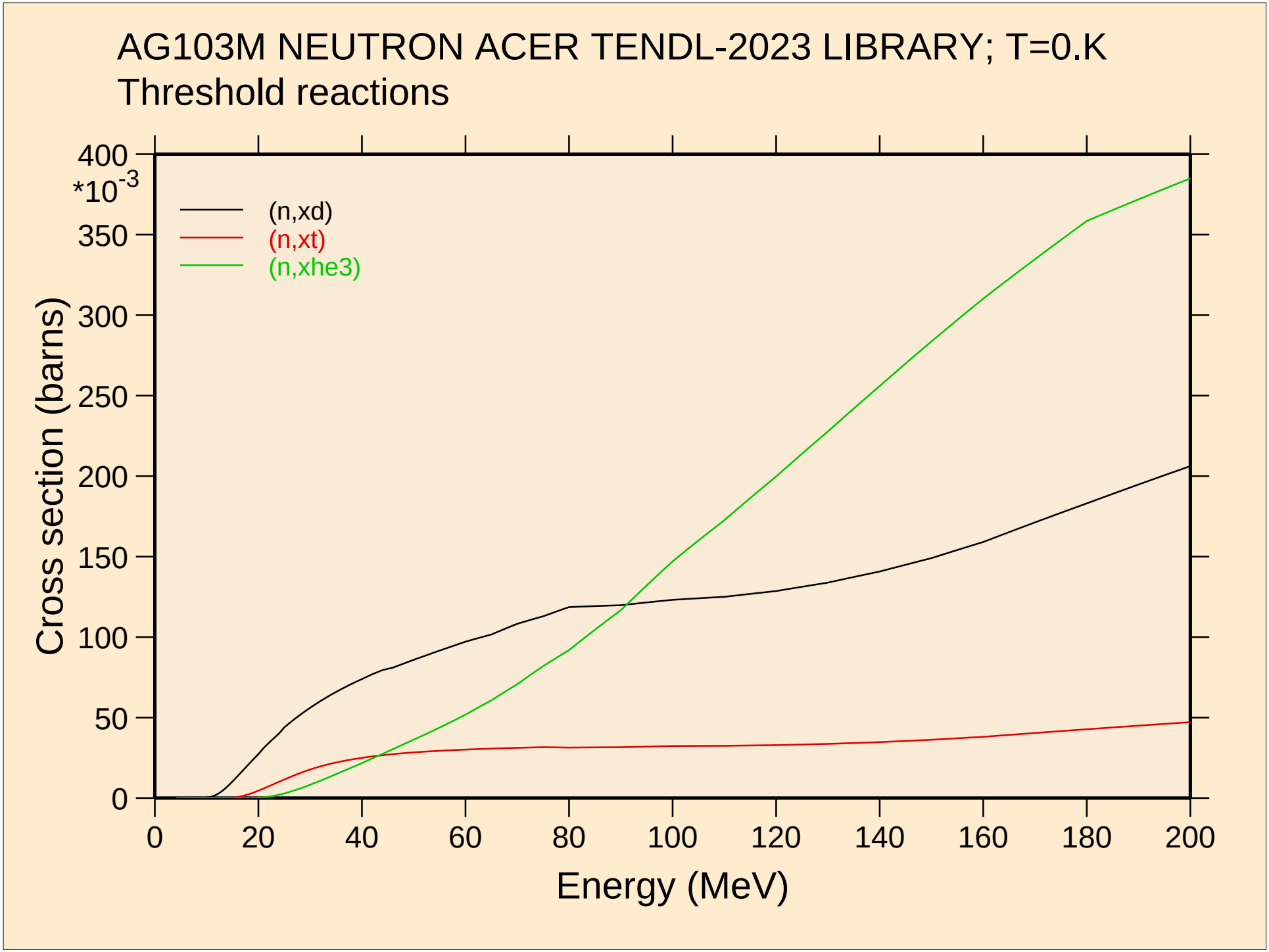

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
(n,x)
(n,2nd)
(n,2n)
(n,3n)
(n,n*)a
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
0
20
40
60
80
100
120
140
160
180
200

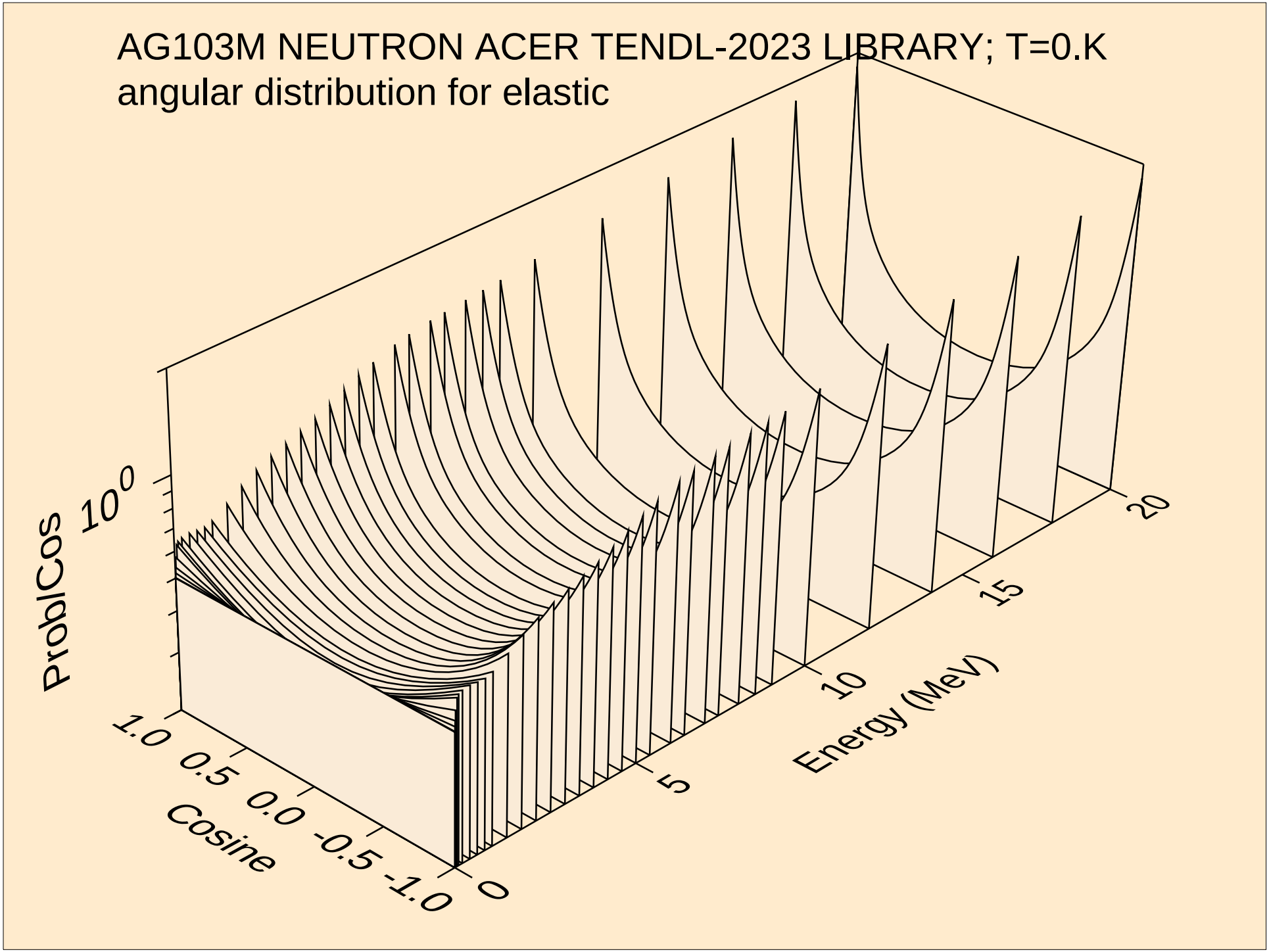

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
(n,2n)a
(n,3n)a
(n,n*)p
(n,n*)2a
(n,n*)d
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
5
10
15
20
25
30
Energy (MeV)

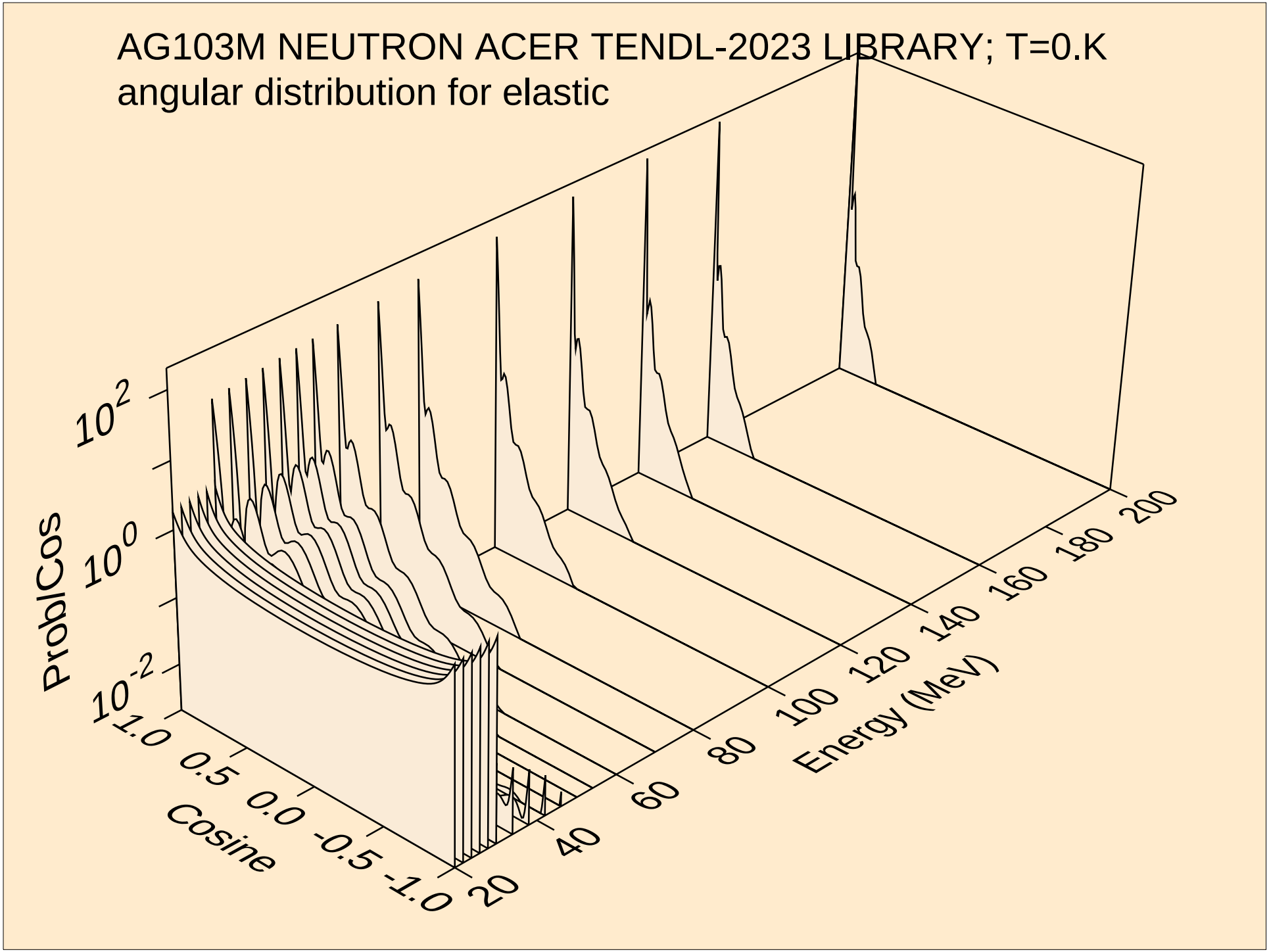

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
(n,n*)t
(n,n*)he3
(n,2np)
(n,3np)
(n,n2p)
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
10
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

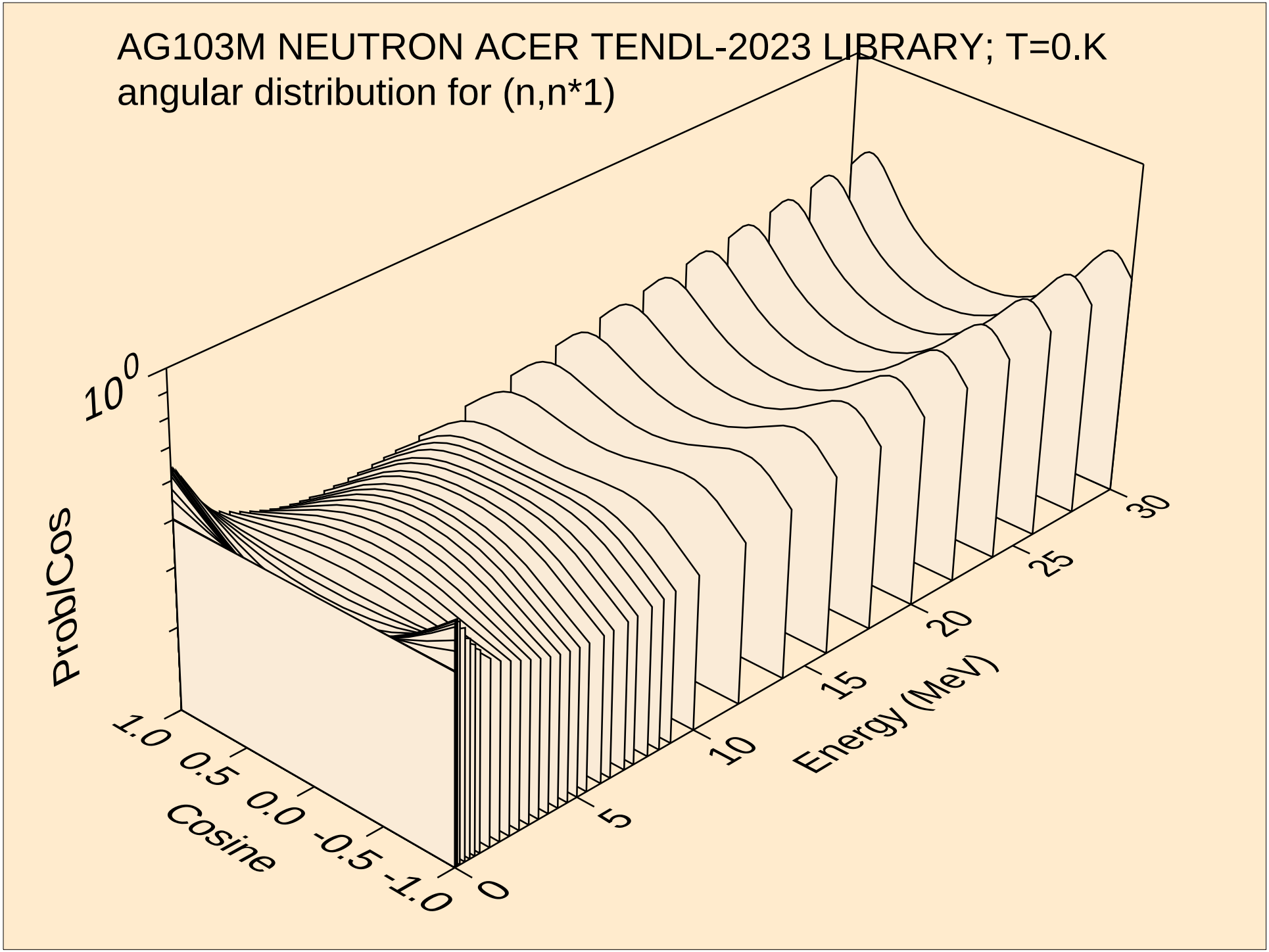

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
(n,npa)
(n,n*c)
(n,d)
(n,t)
(n,he3)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
0
5
10
15
20
25
30

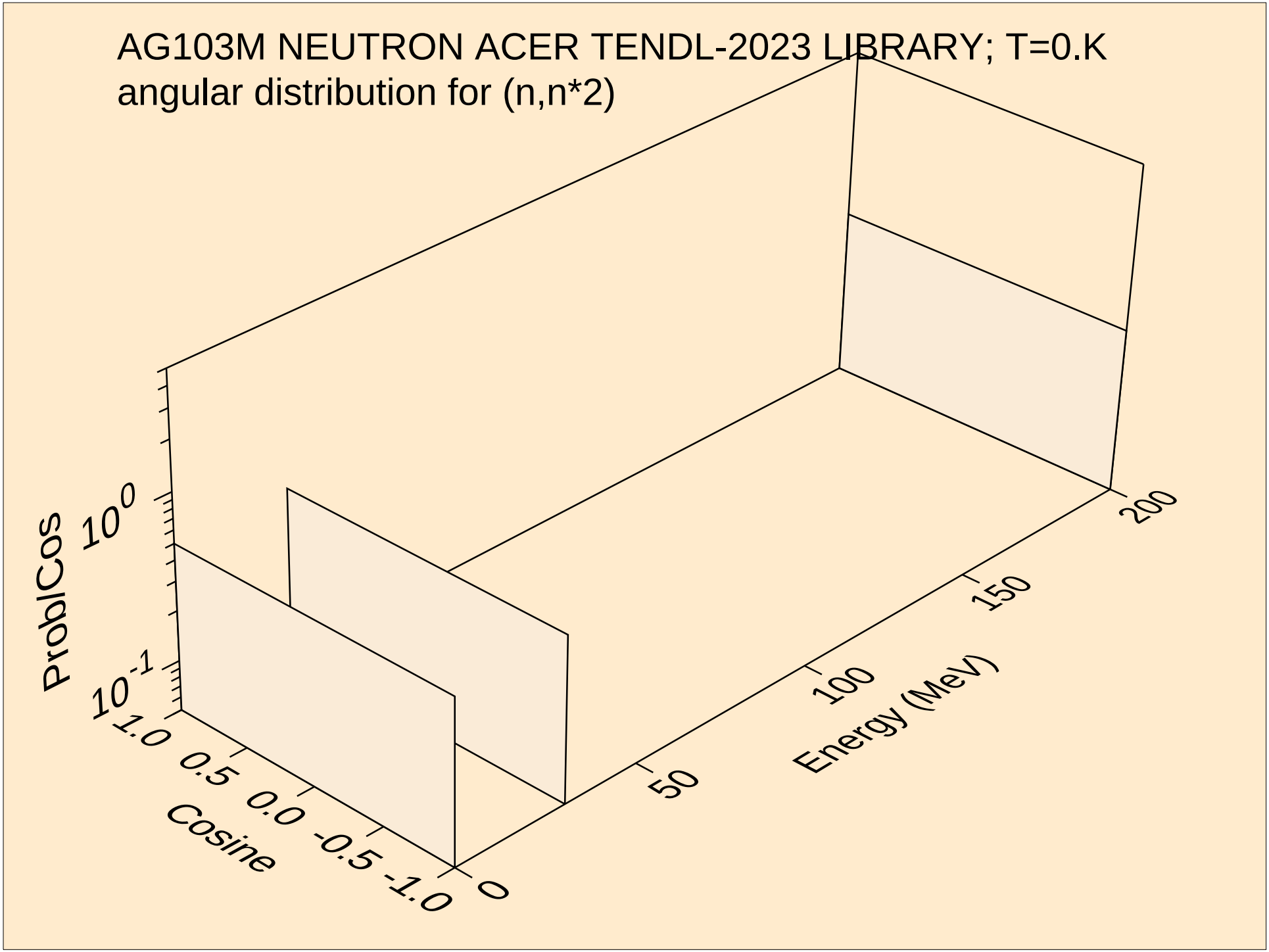

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
*10-3
10
8
6
4
2
0
(n,2p)
(n,pd)
(n,pt)
(n,da)
Cross section (barns)
0
5
10
15
20
25
30
Energy (MeV)

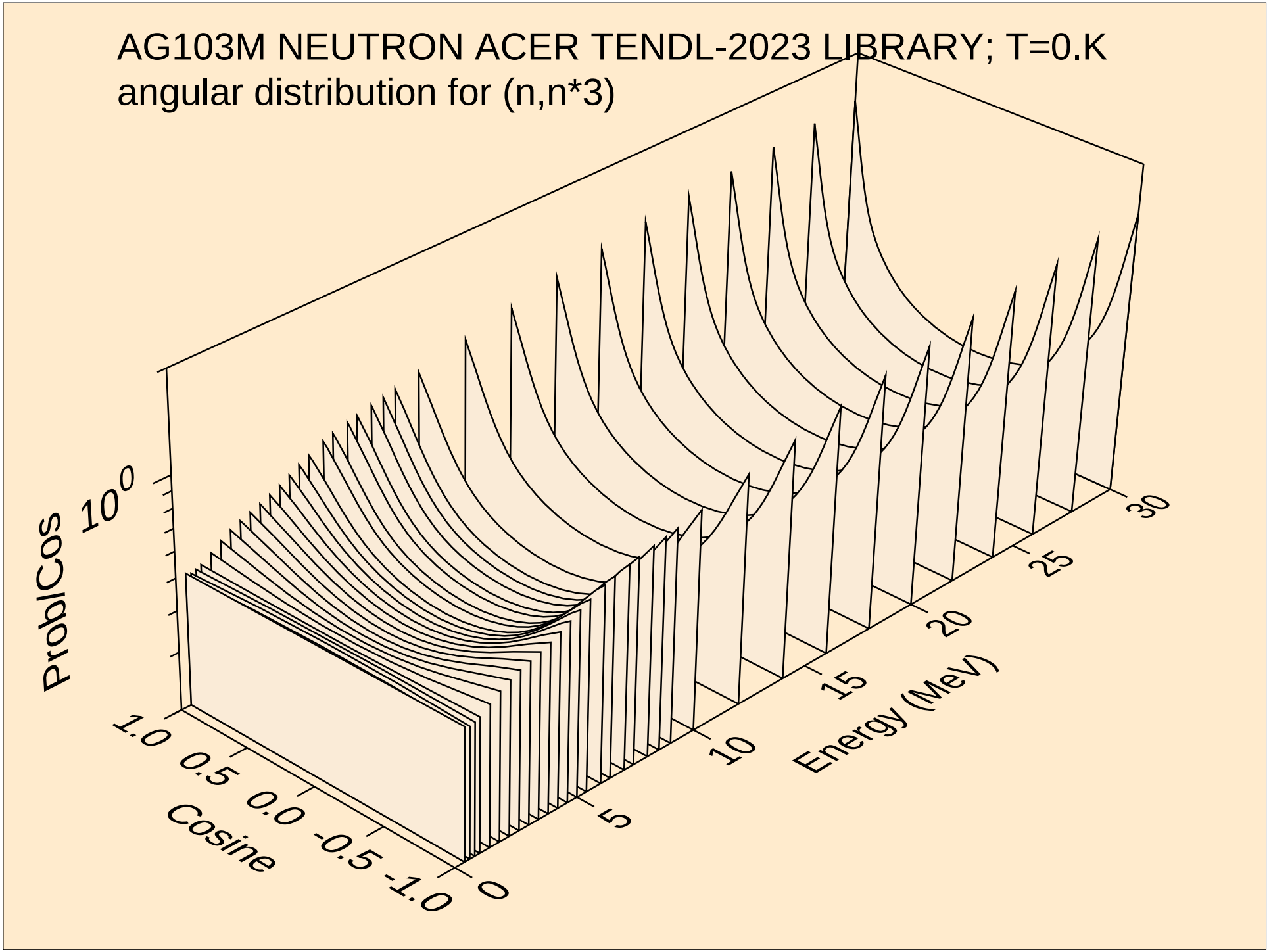

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
400
*10-3
350
300
250
200
150
100
50
0
(n,xd)
(n,xt)
(n,xhe3)
Cross section (barns)
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

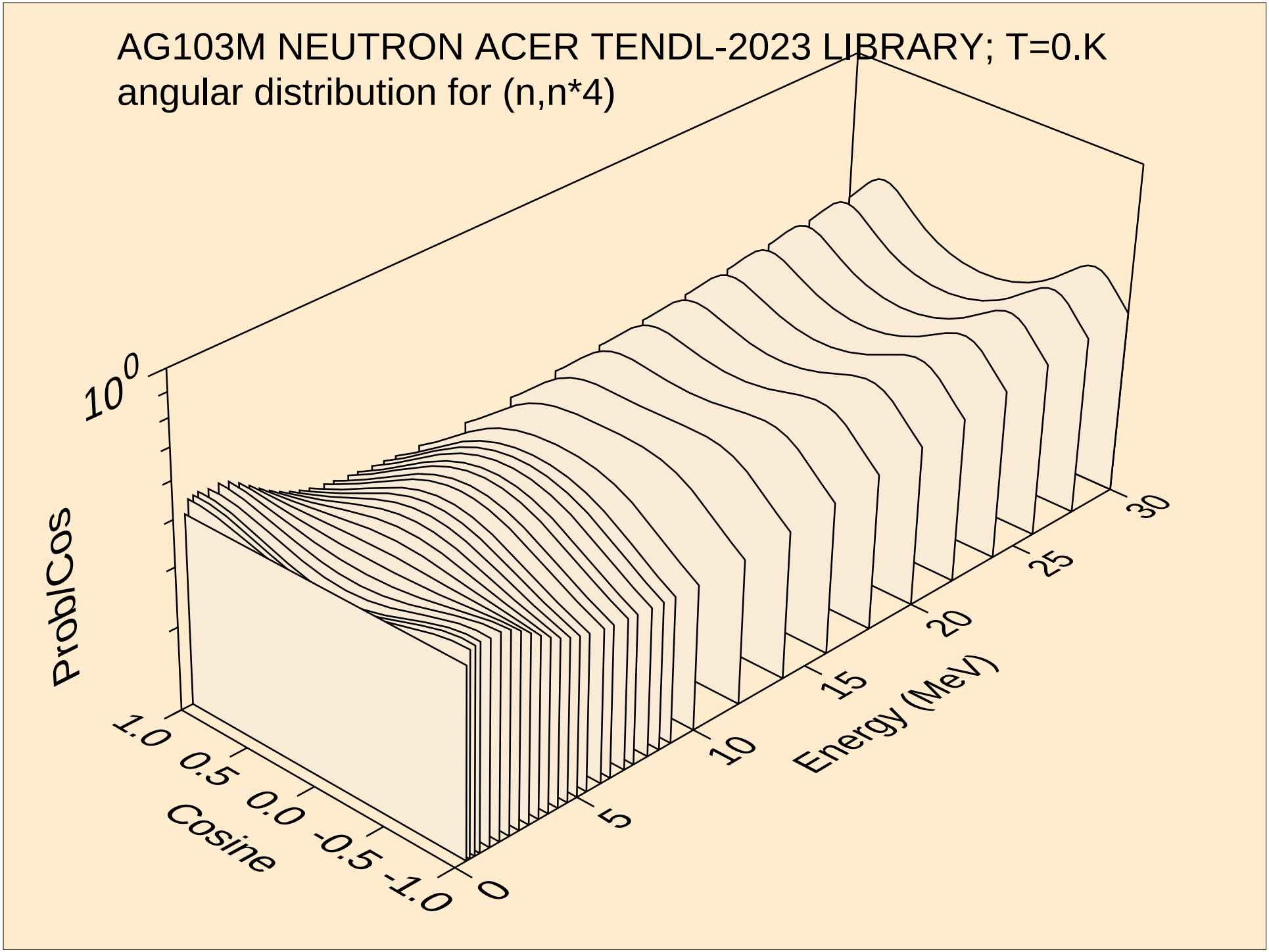

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

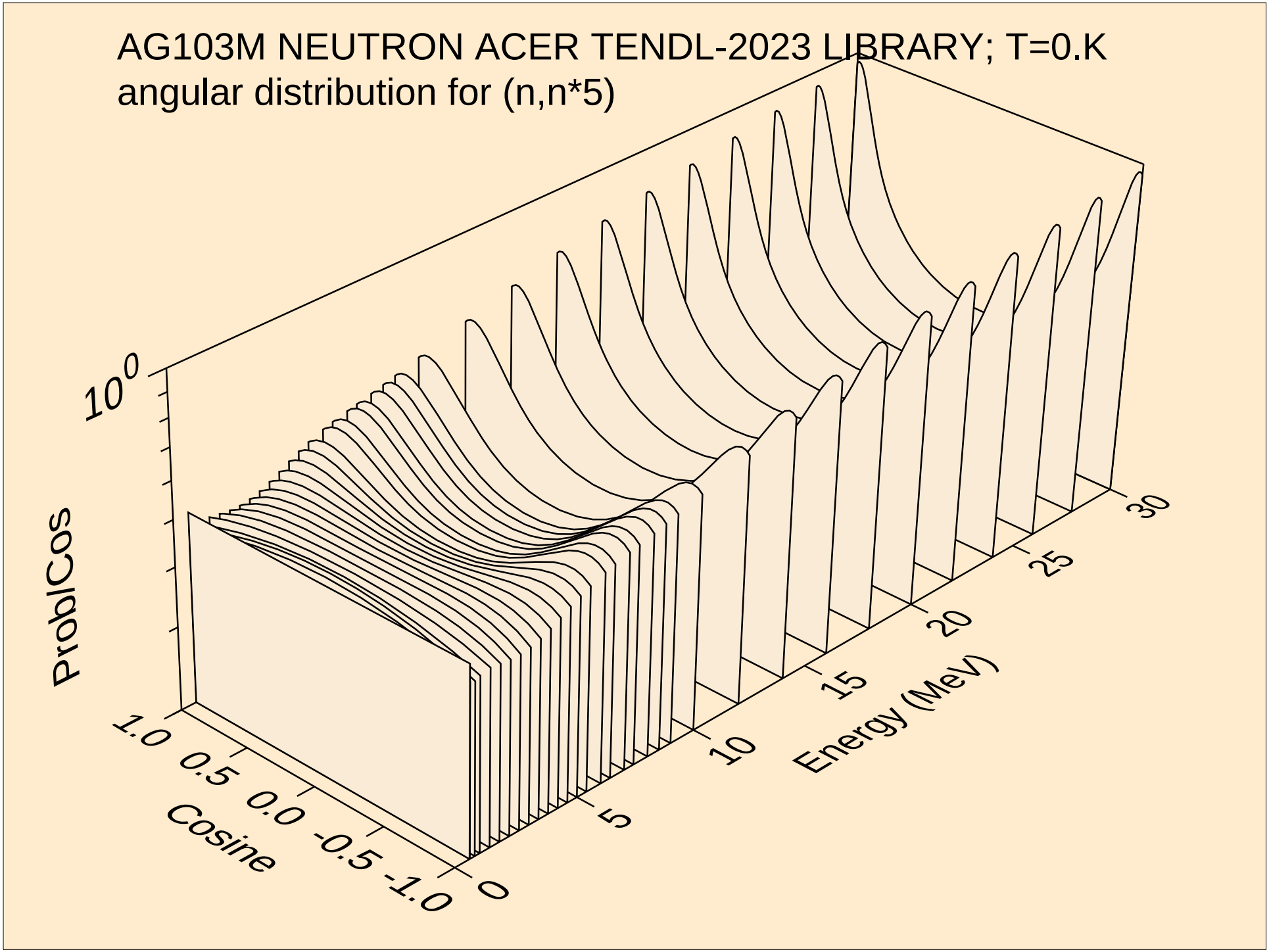

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic
ProbICos
10^{2}
10^{0}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

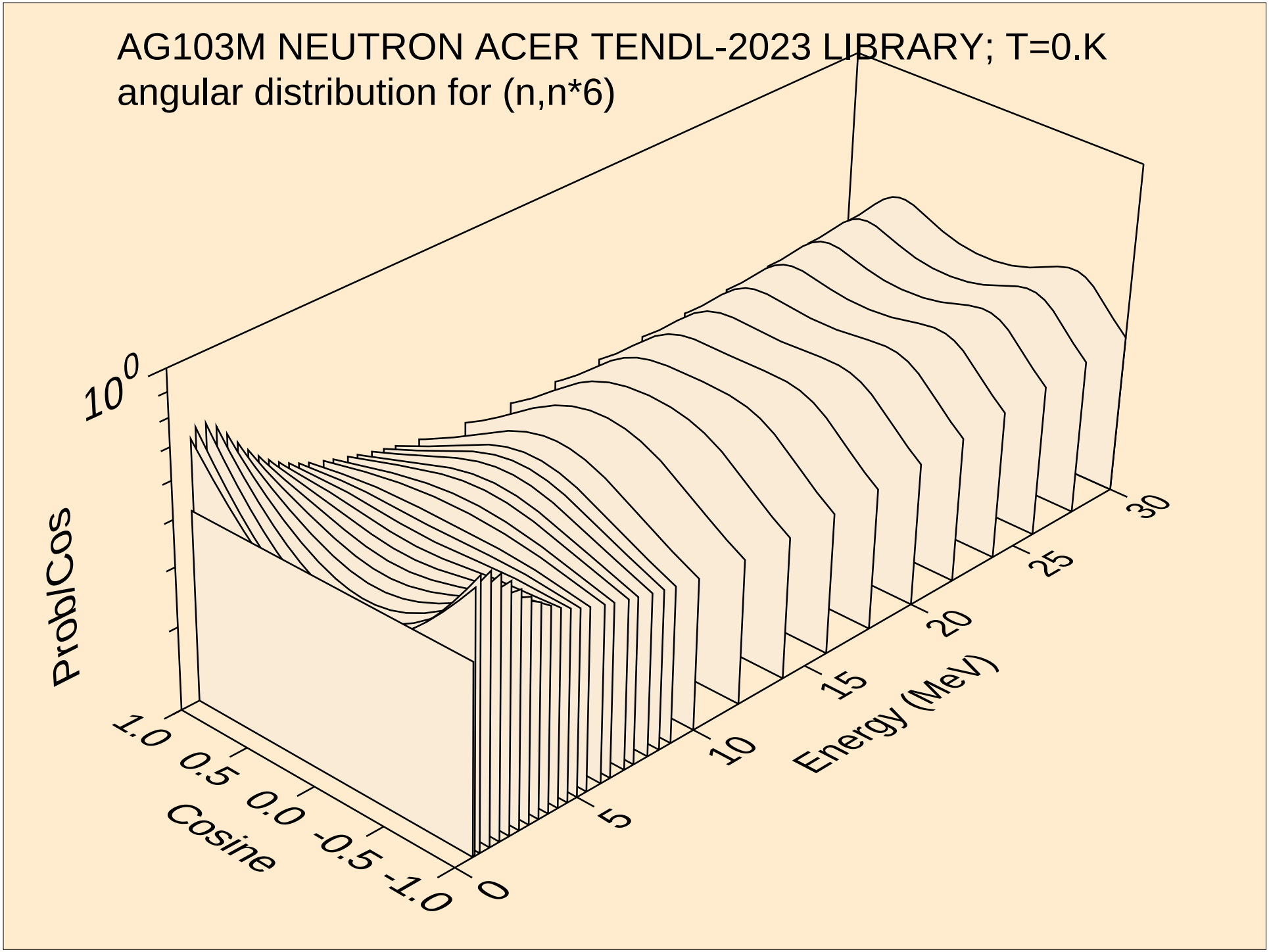

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*1)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

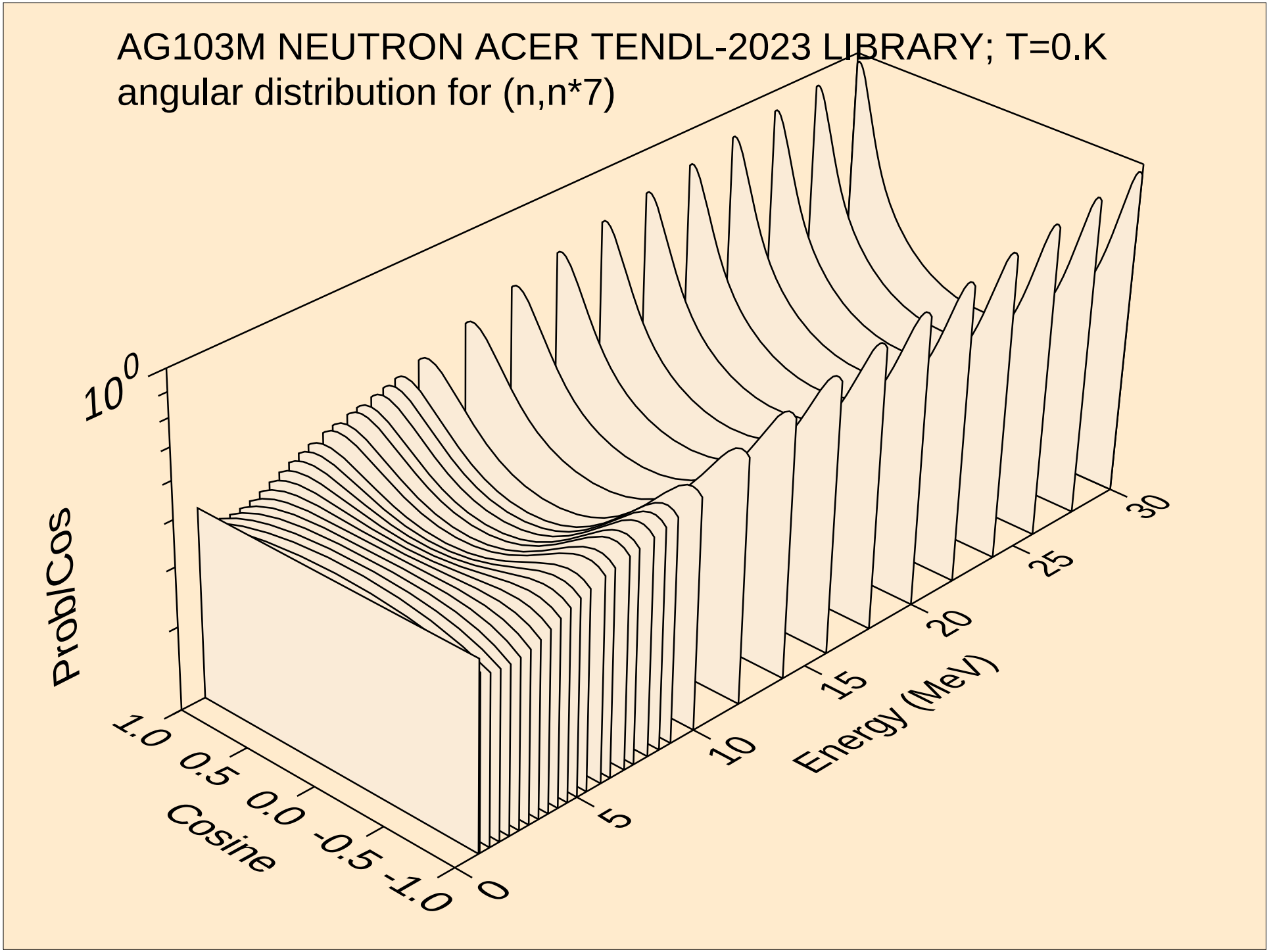

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*2)
Prob\Cos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
50
100
150
200
Energy (MeV)

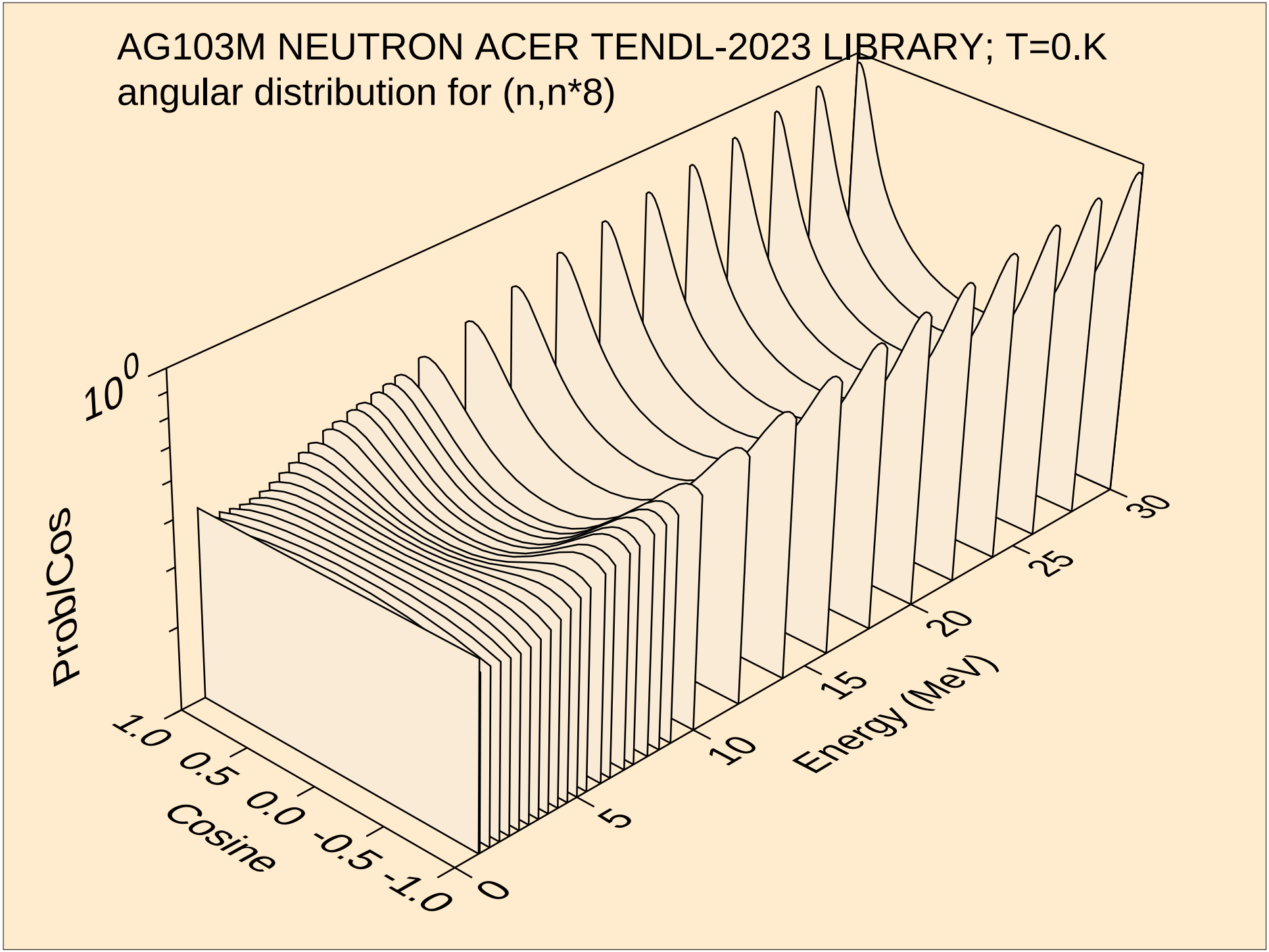

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*3)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

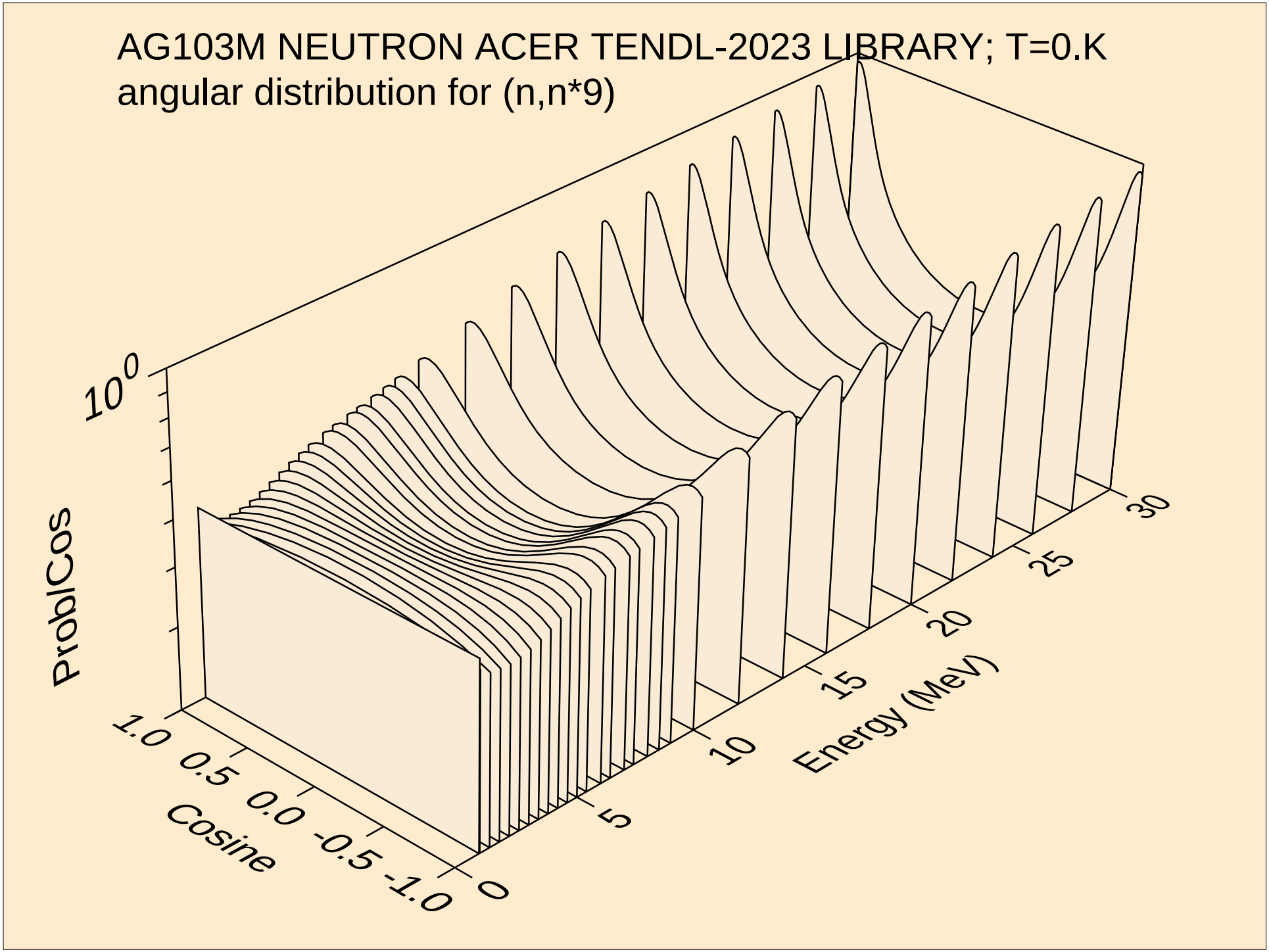

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*4)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

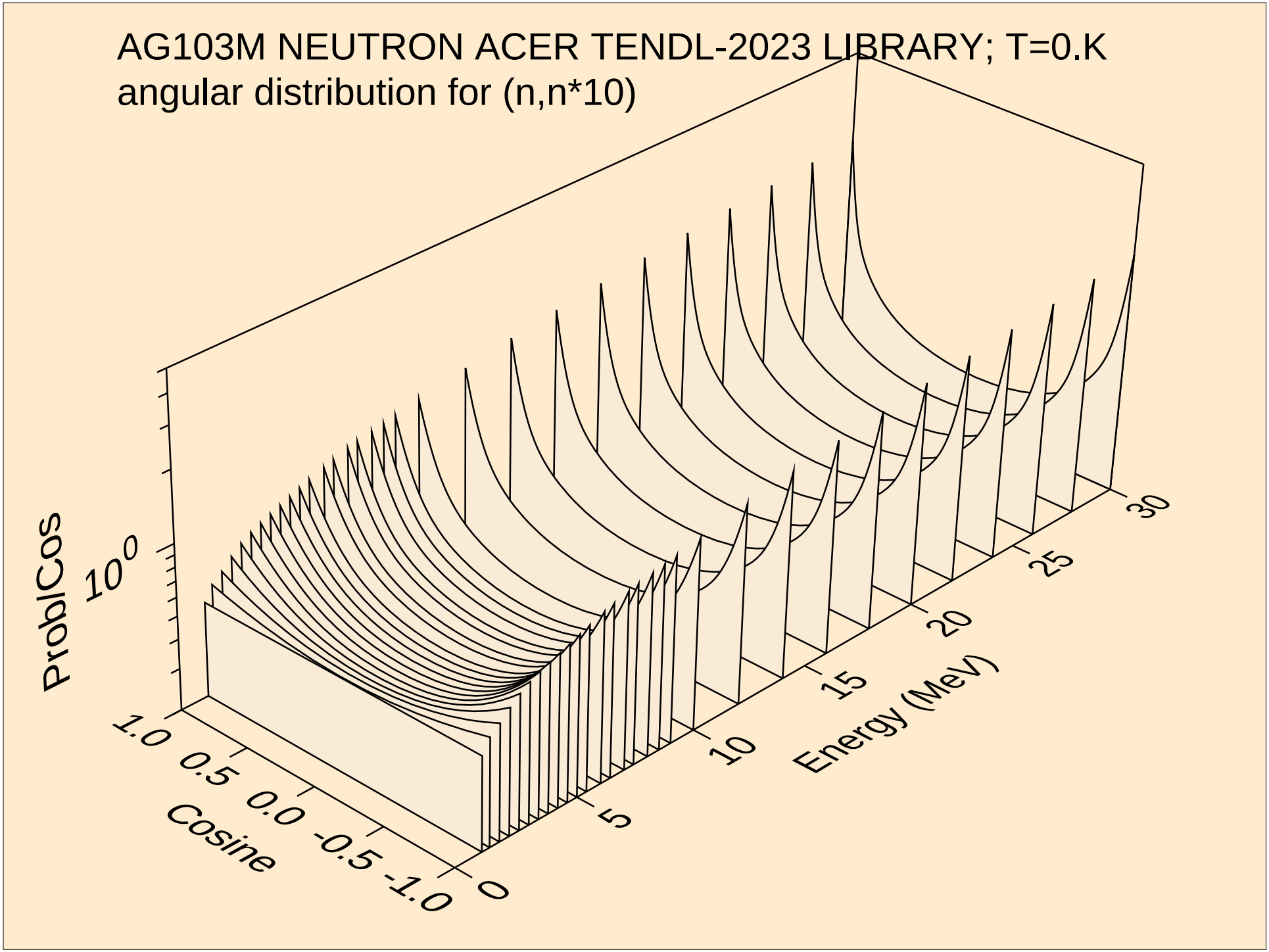

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*5)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

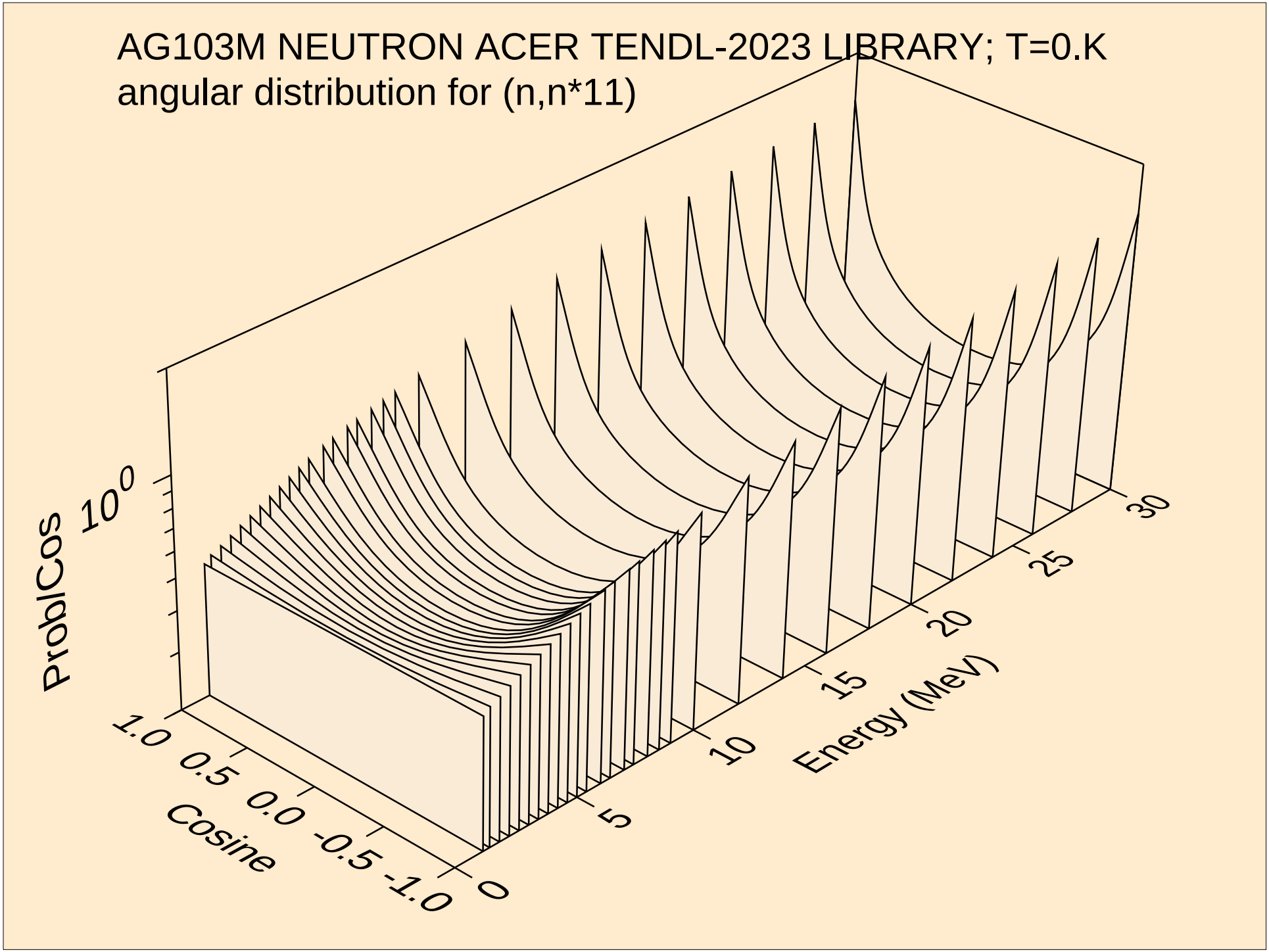

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*6)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

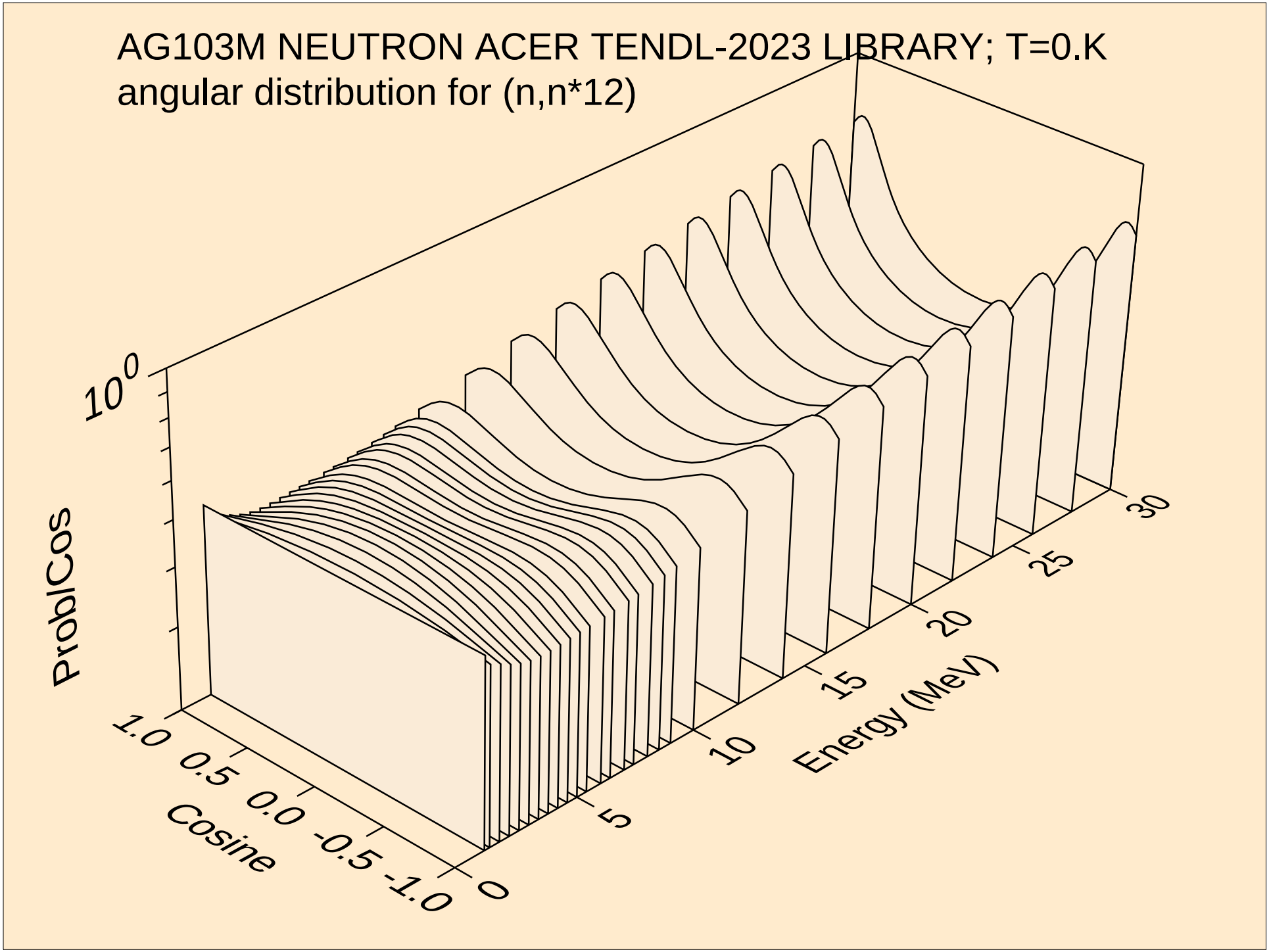

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*7)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

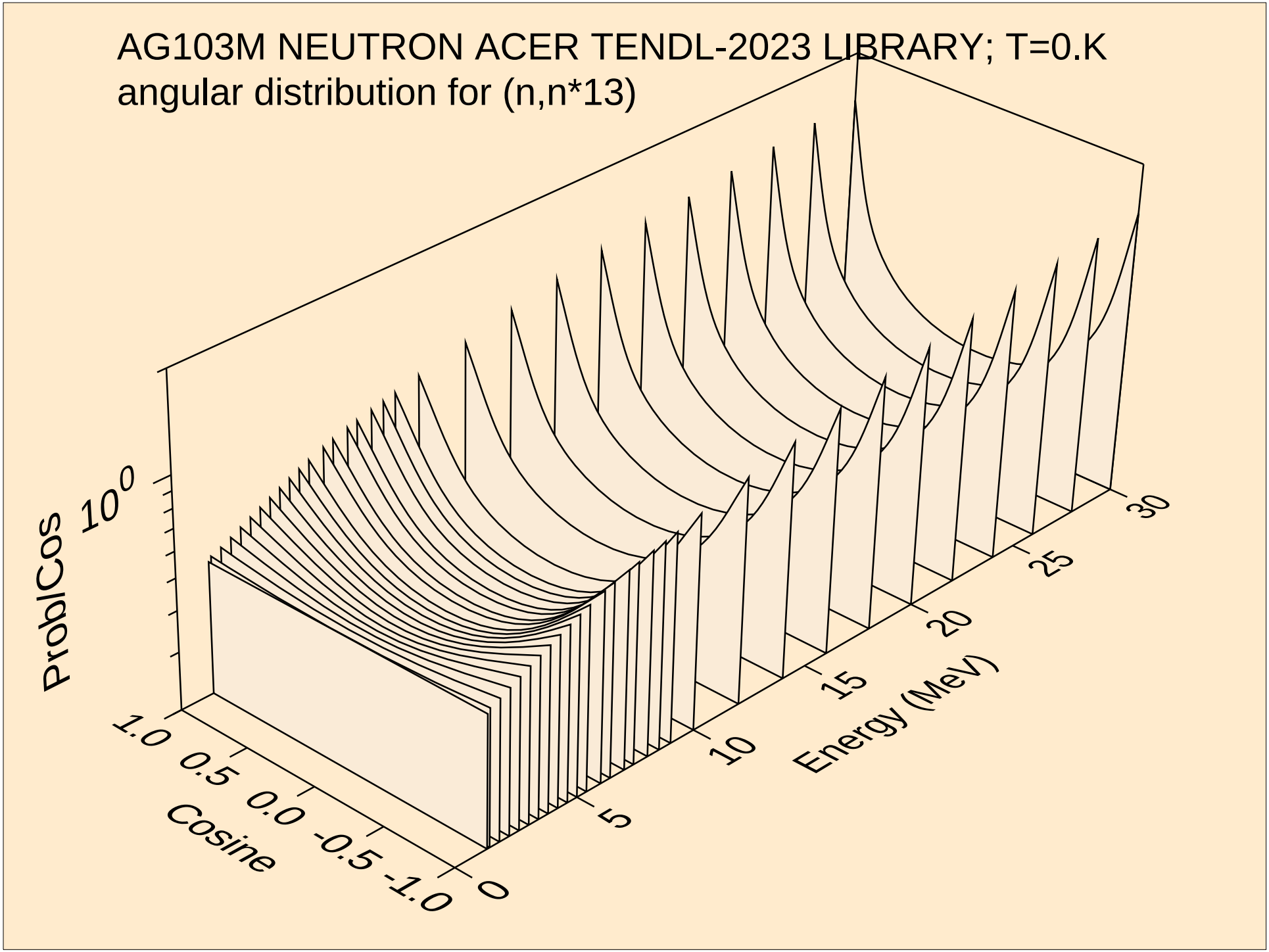

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*8)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

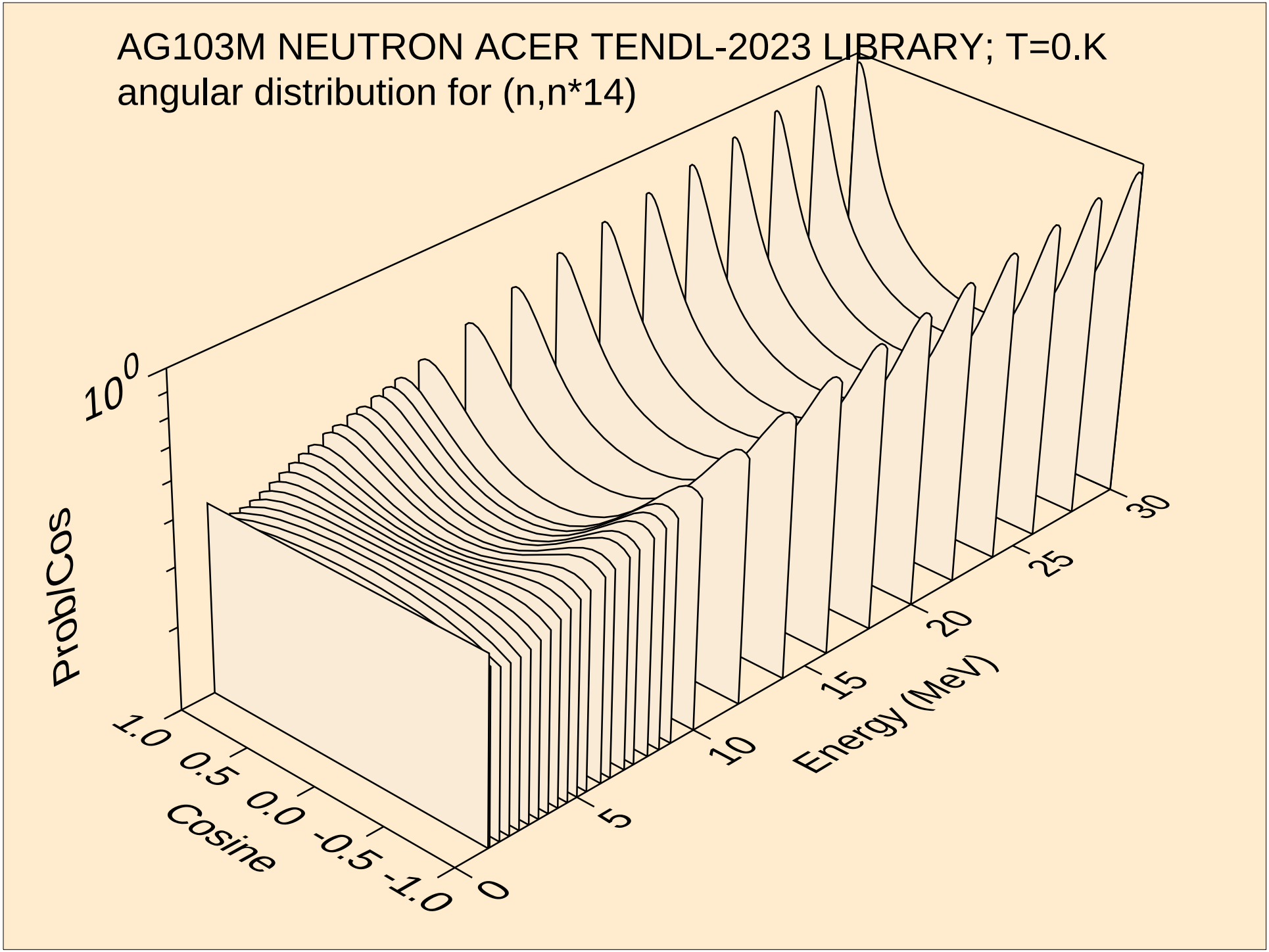

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*9)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

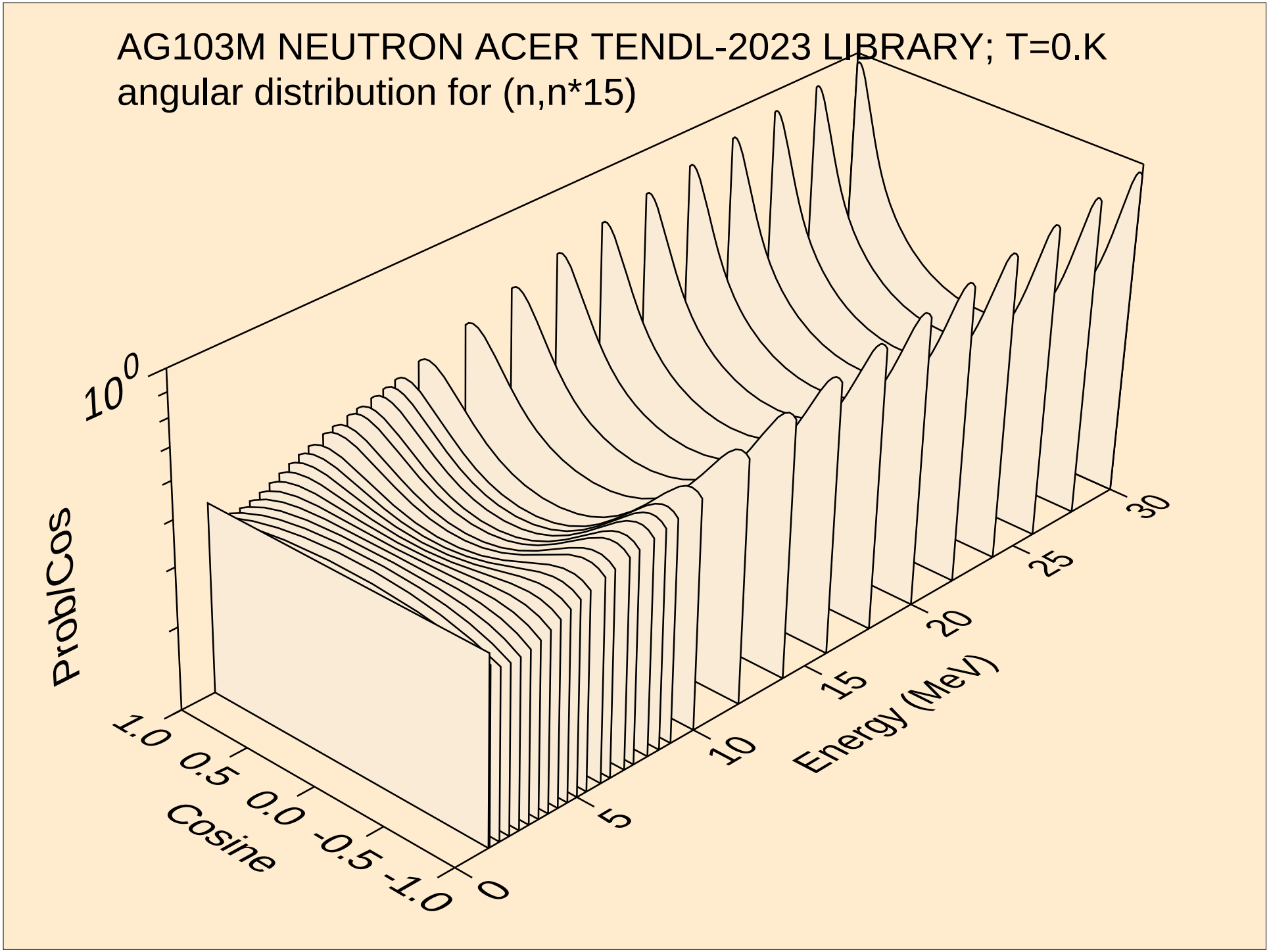

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*10)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

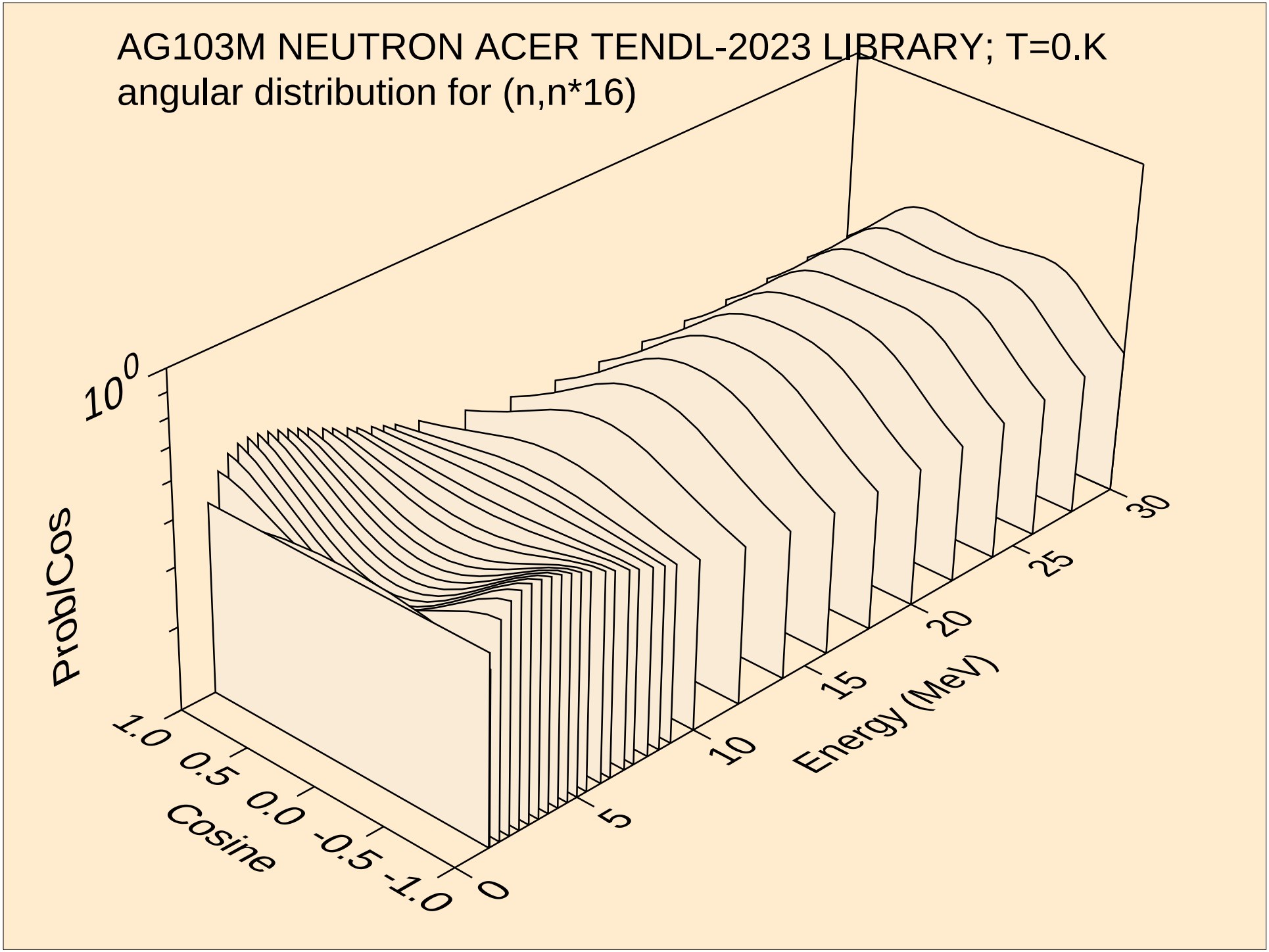

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*11)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

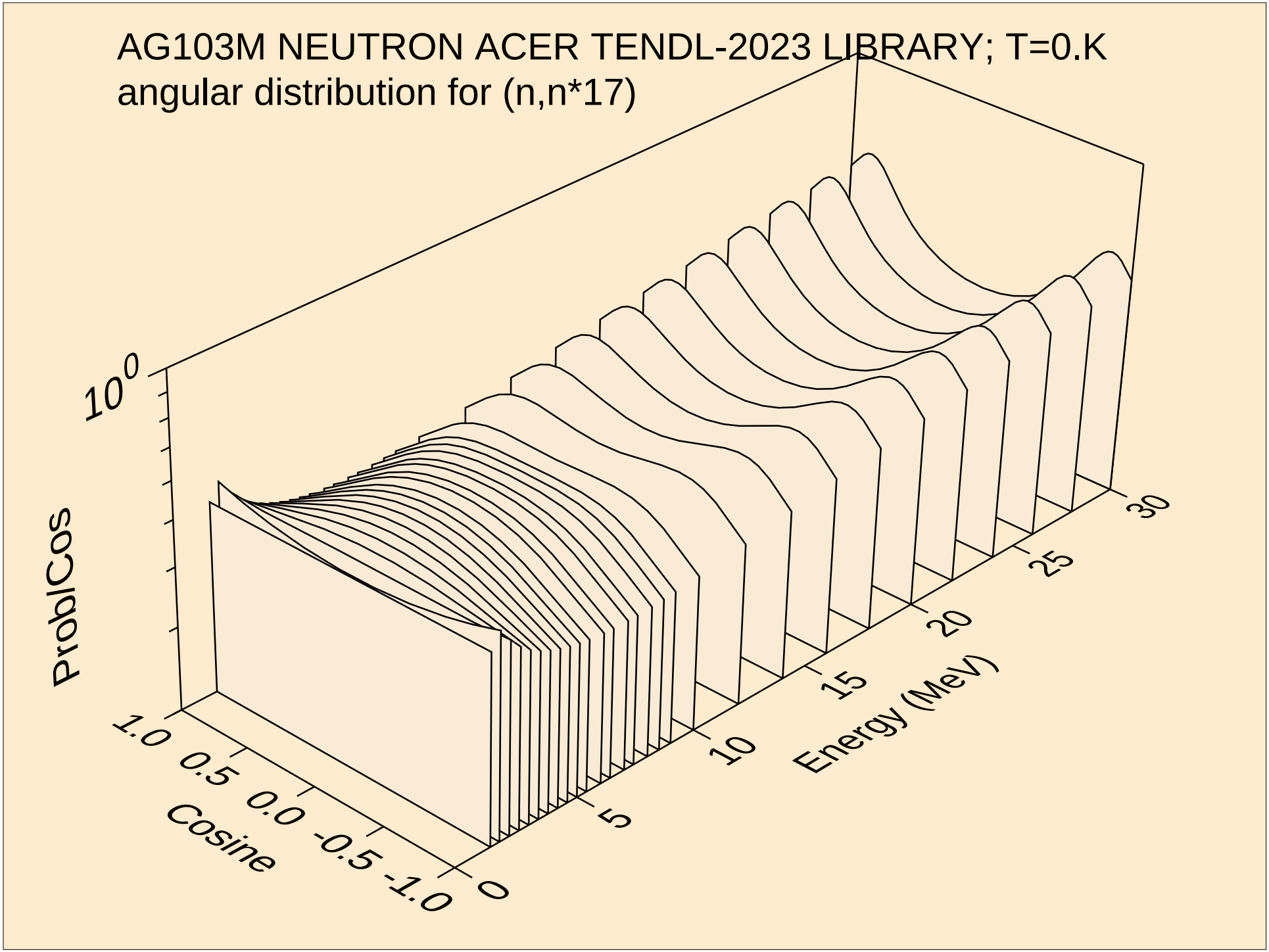

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*12)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

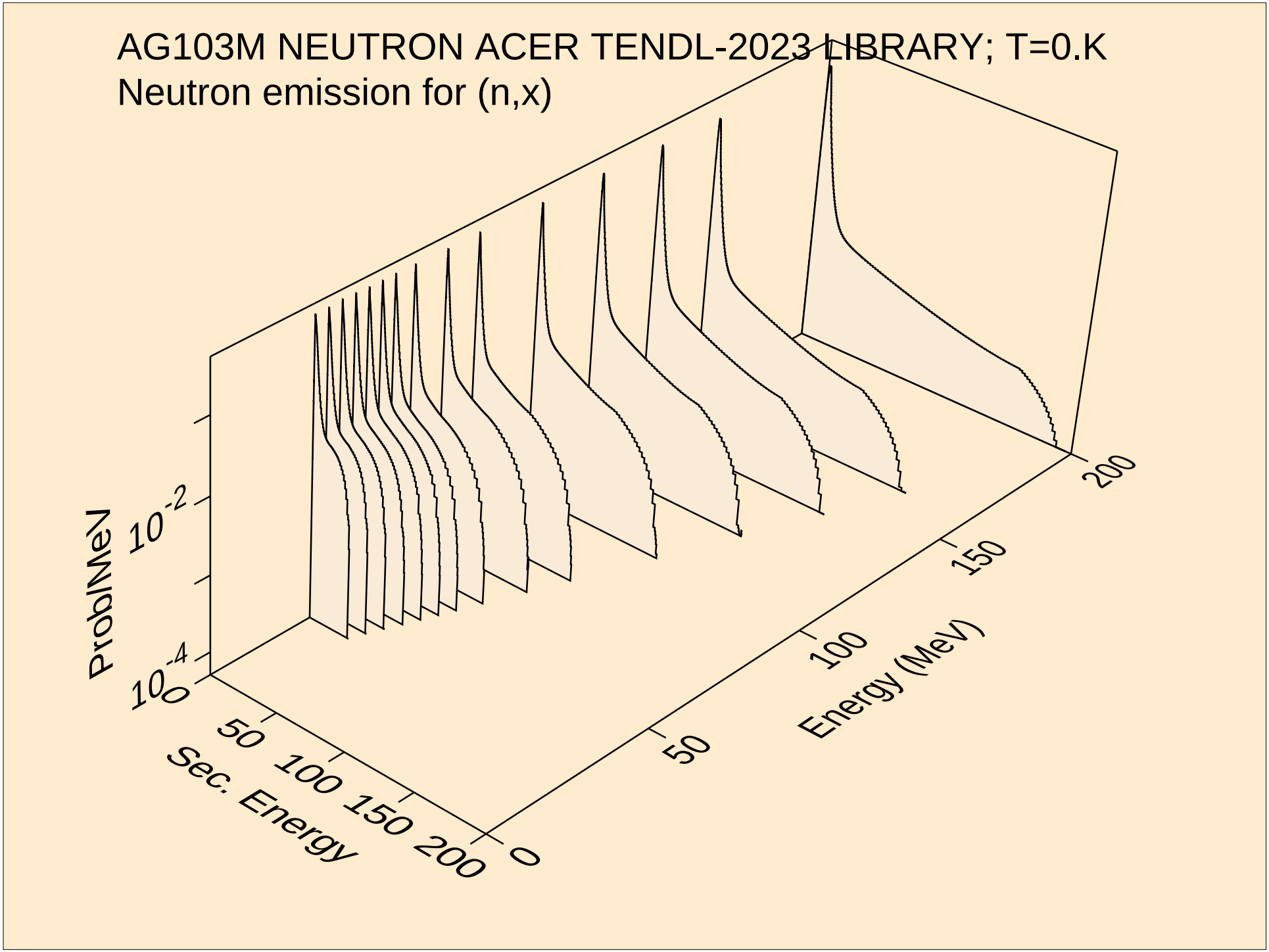

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*13)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

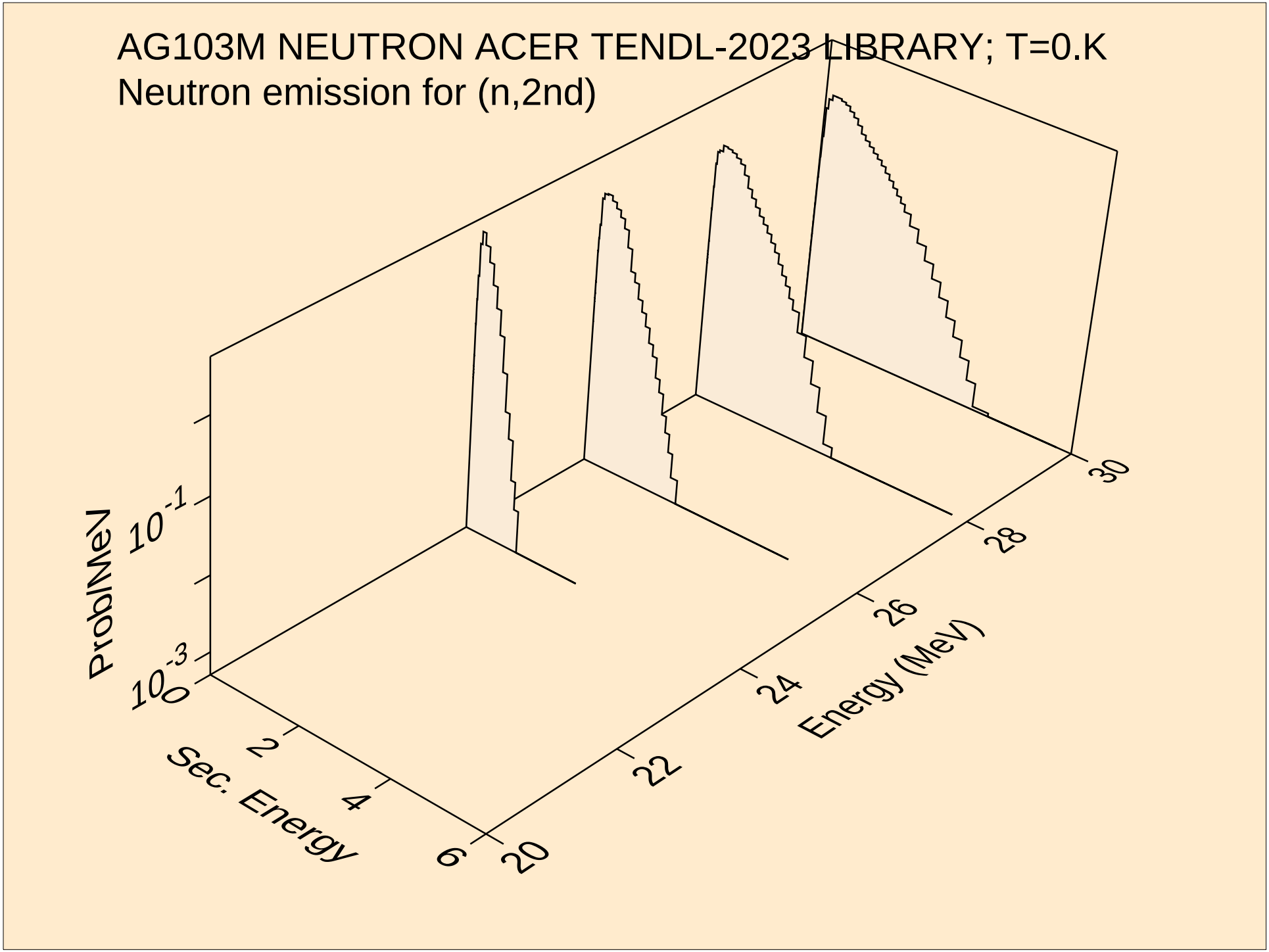

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*14)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

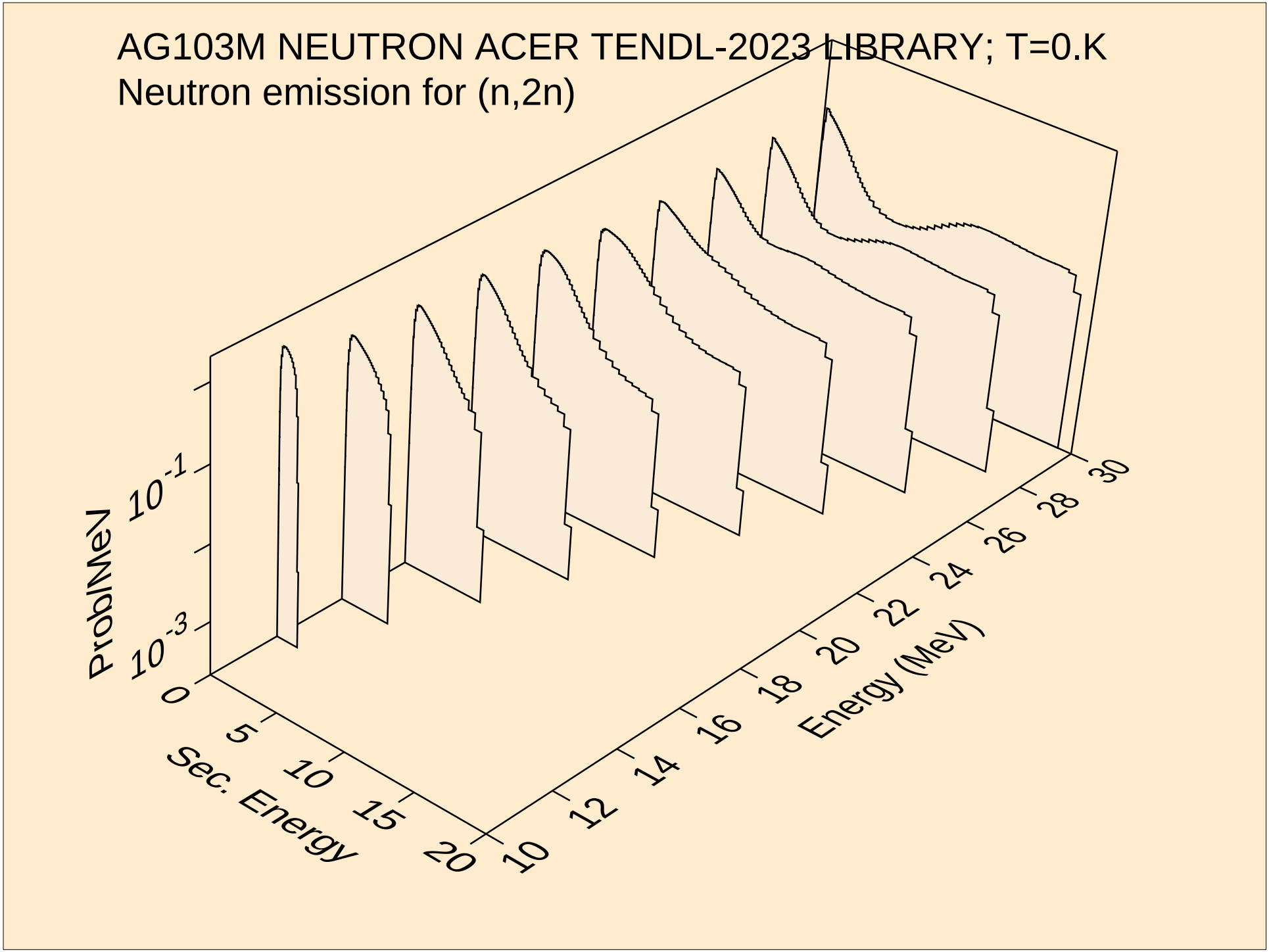

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*15)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

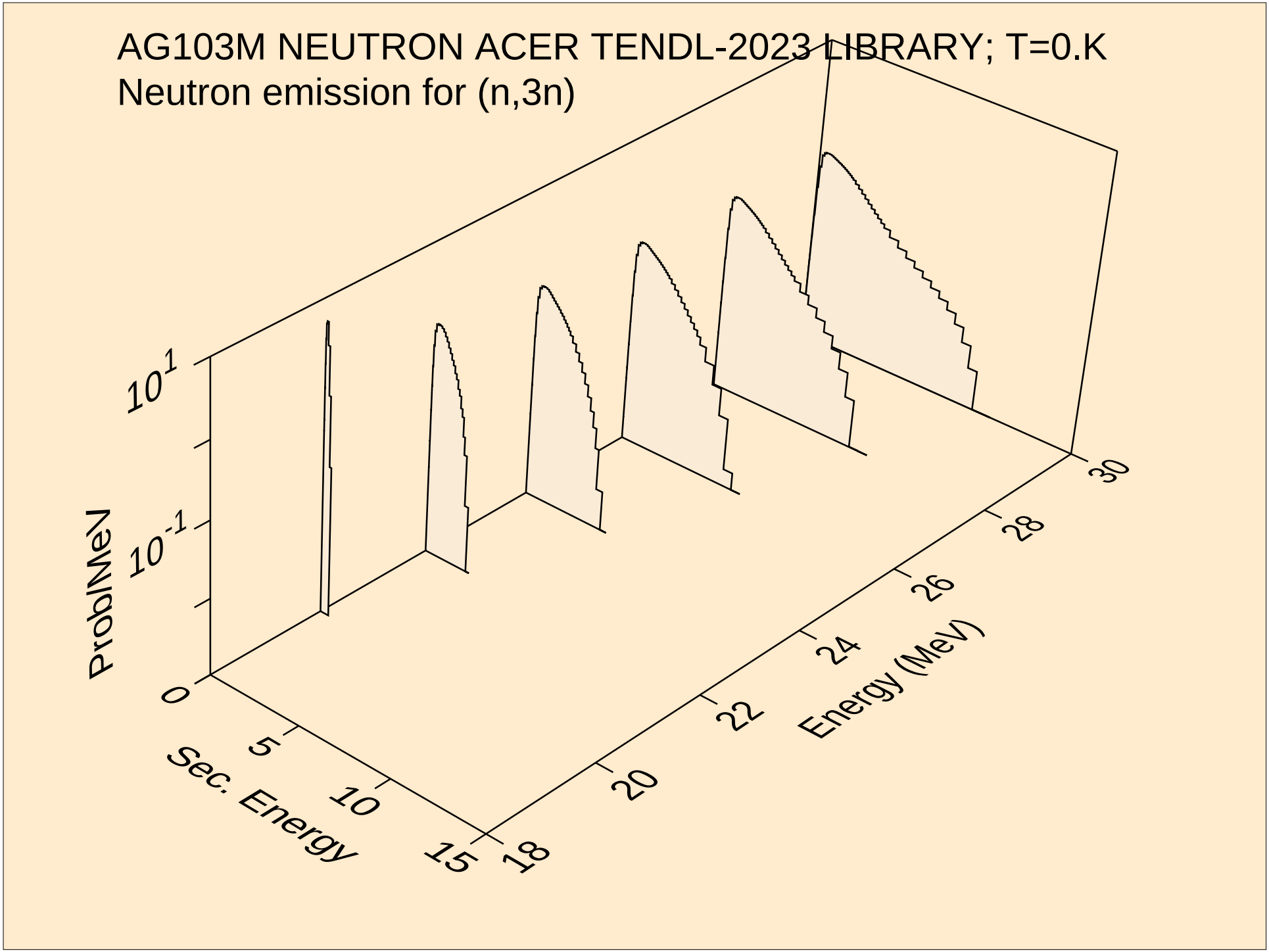

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*16)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

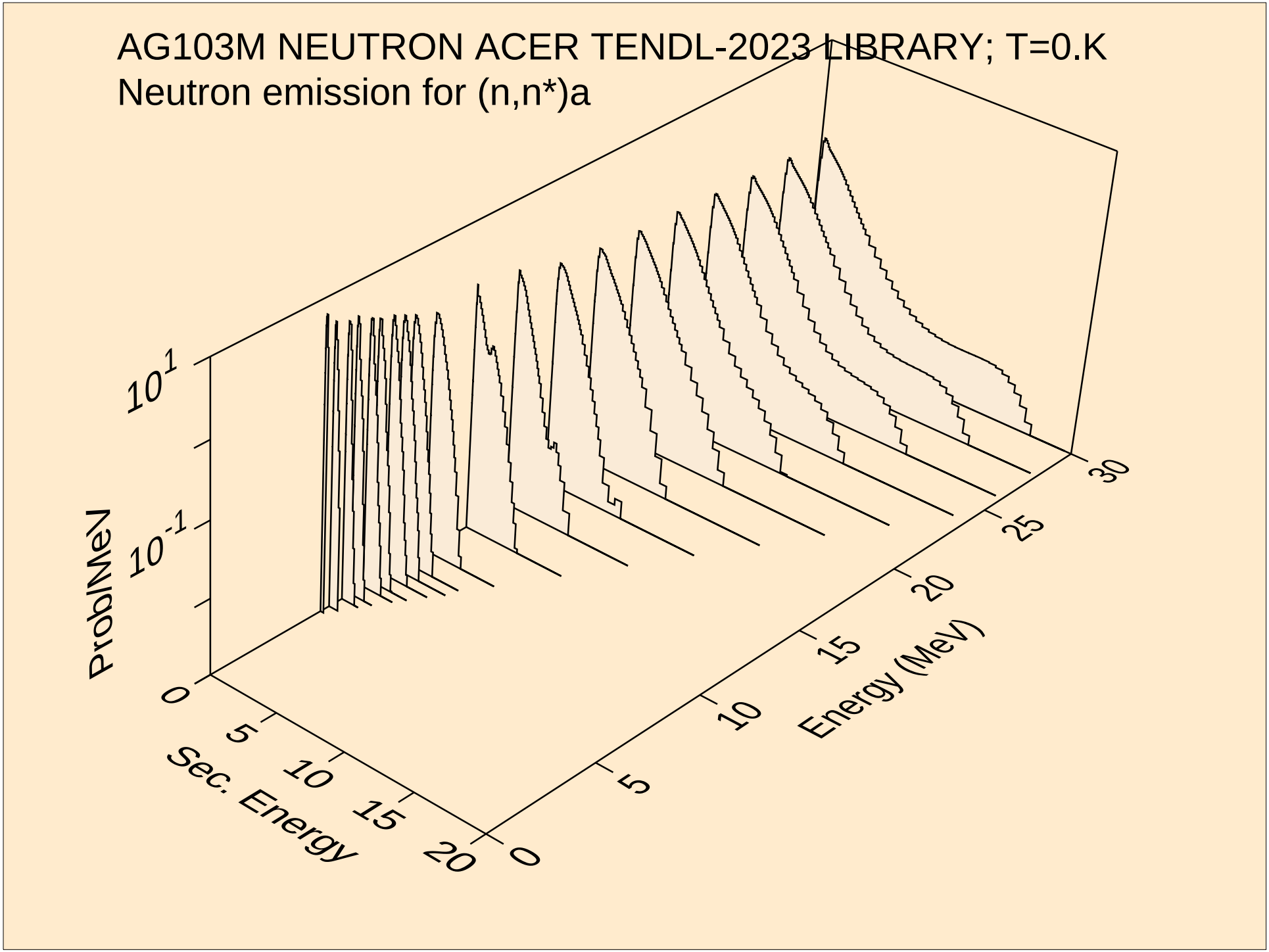

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*17)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

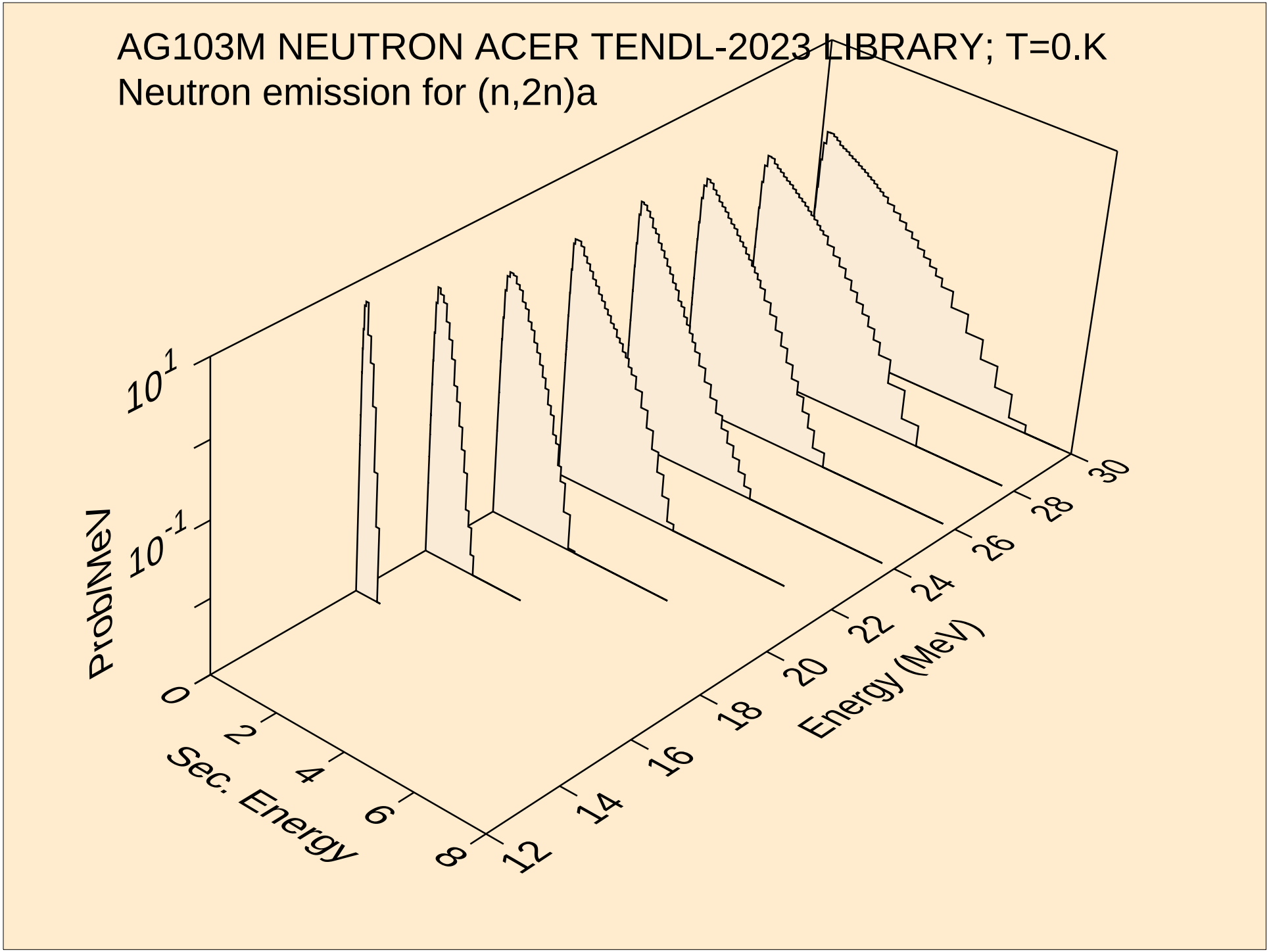

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,x)
Prob/MeV
10-2
10-4
0
50
100
150
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

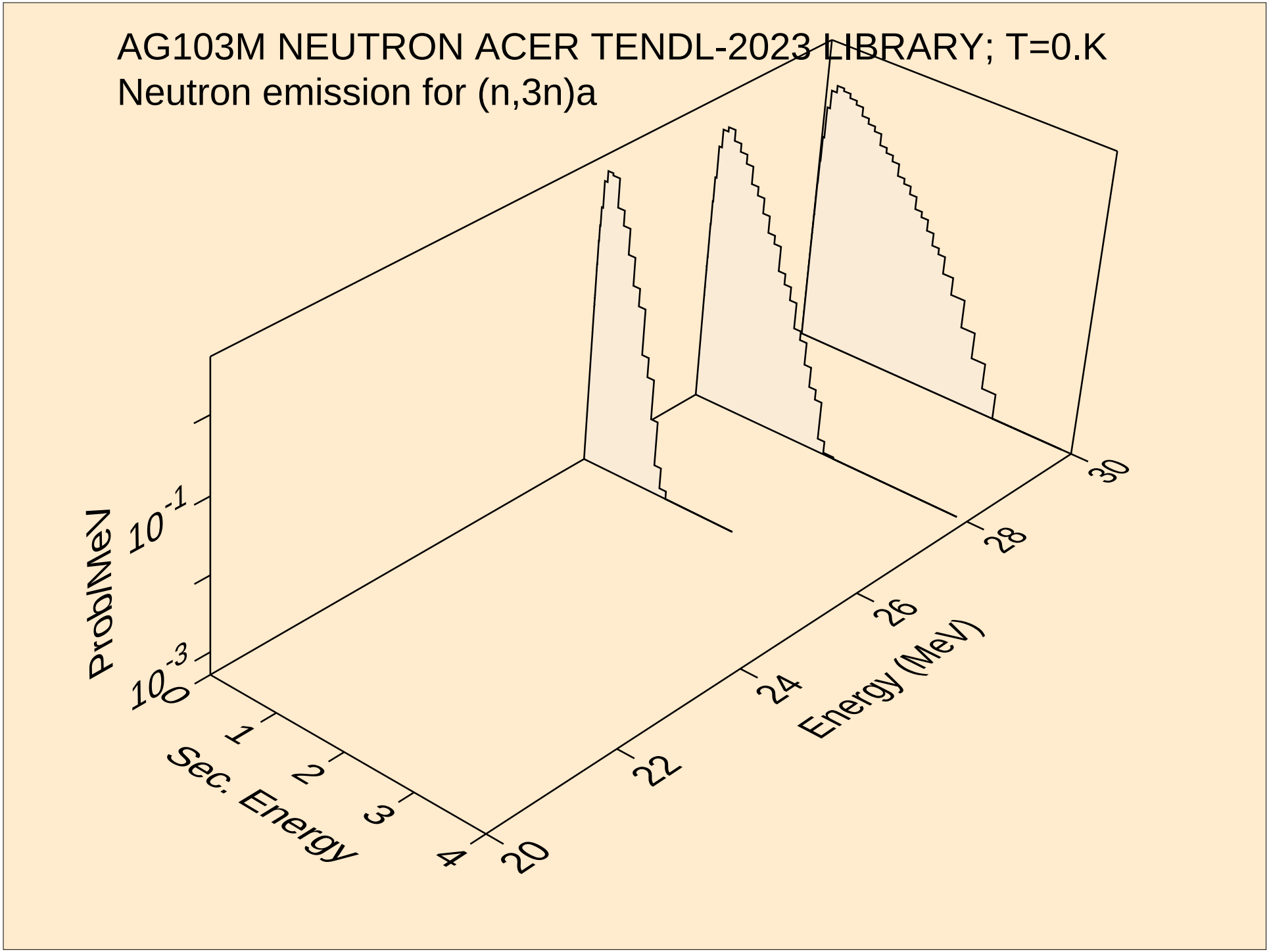

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2nd)
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
20
22
24
26
28
30
Energy (MeV)

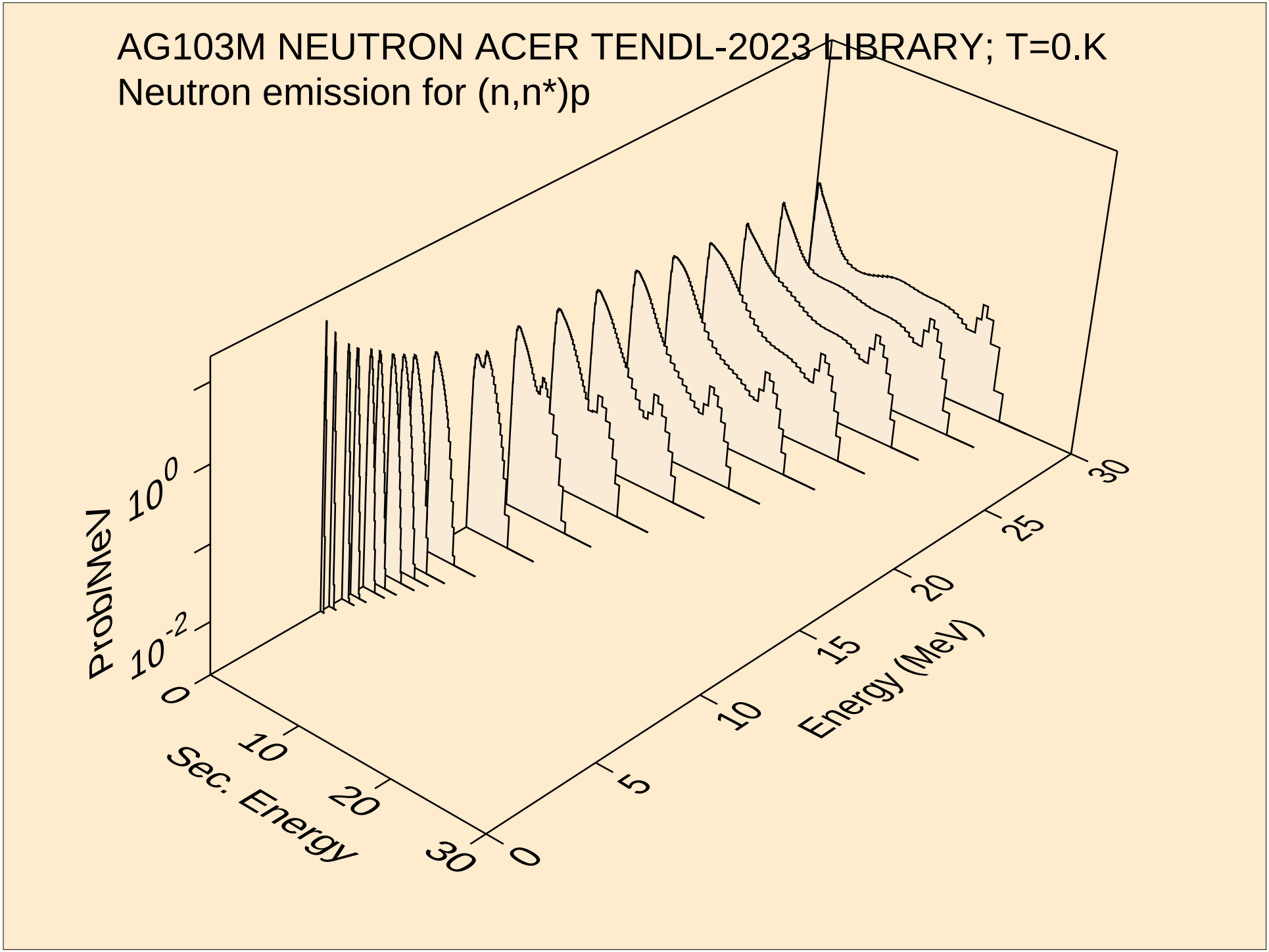

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
10
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

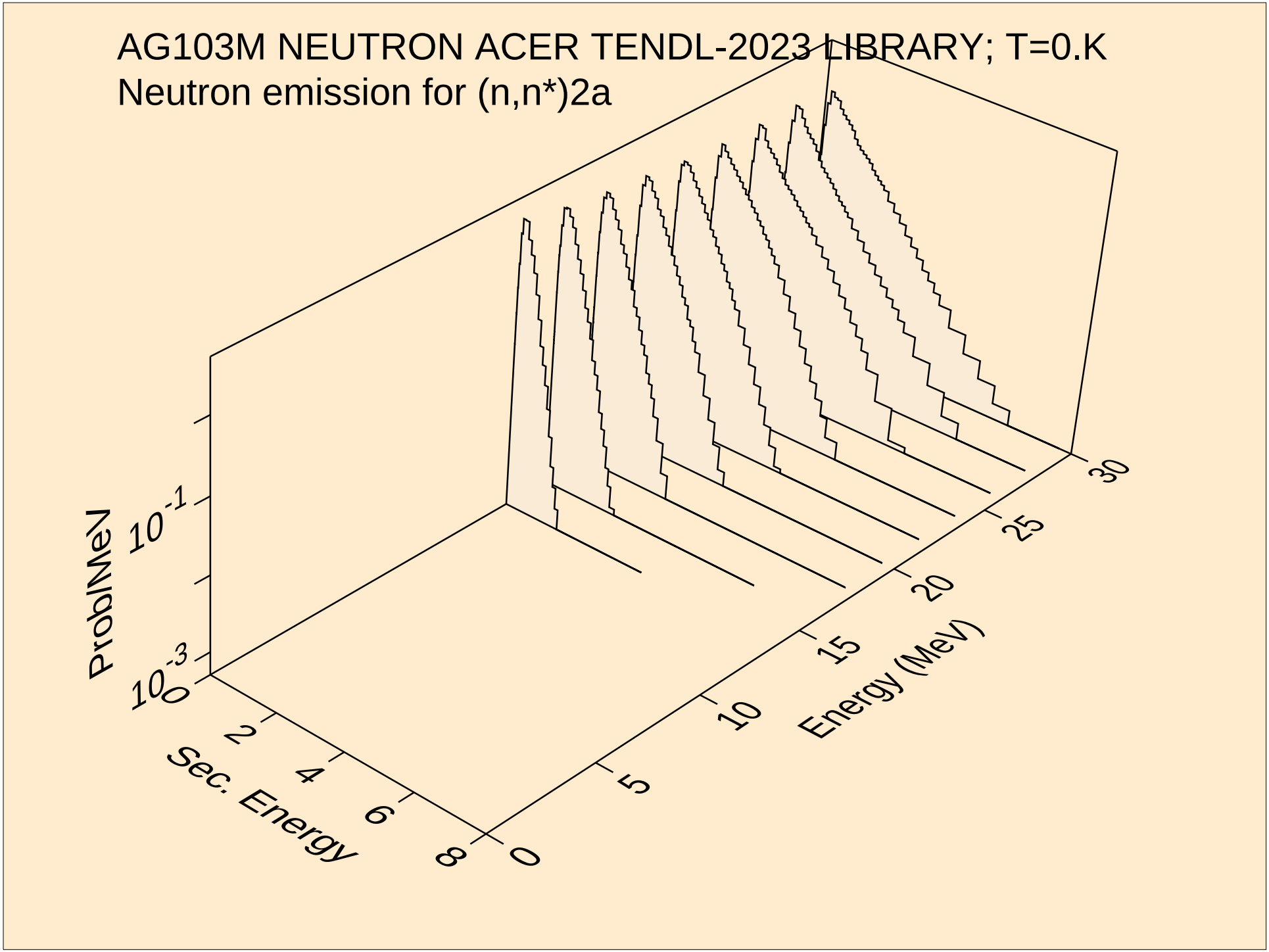

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3n)
Prob/MeV
10^{1}
10^{-1}
0
5
10
15
18
Sec. Energy
20
22
24
26
28
30
Energy (MeV)

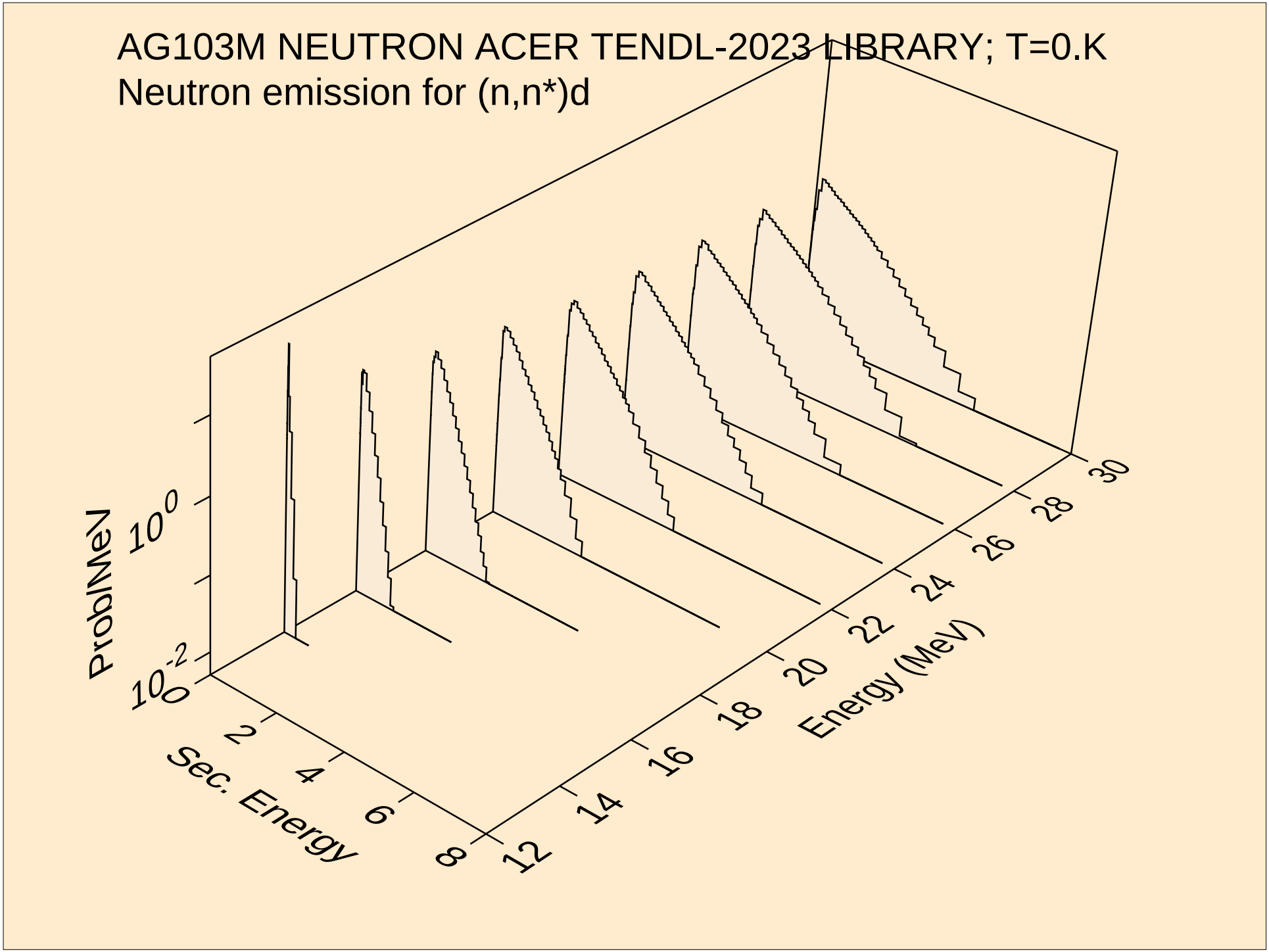

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)a
Prob/MeV
10^1
10^-1
0
5
10
15
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

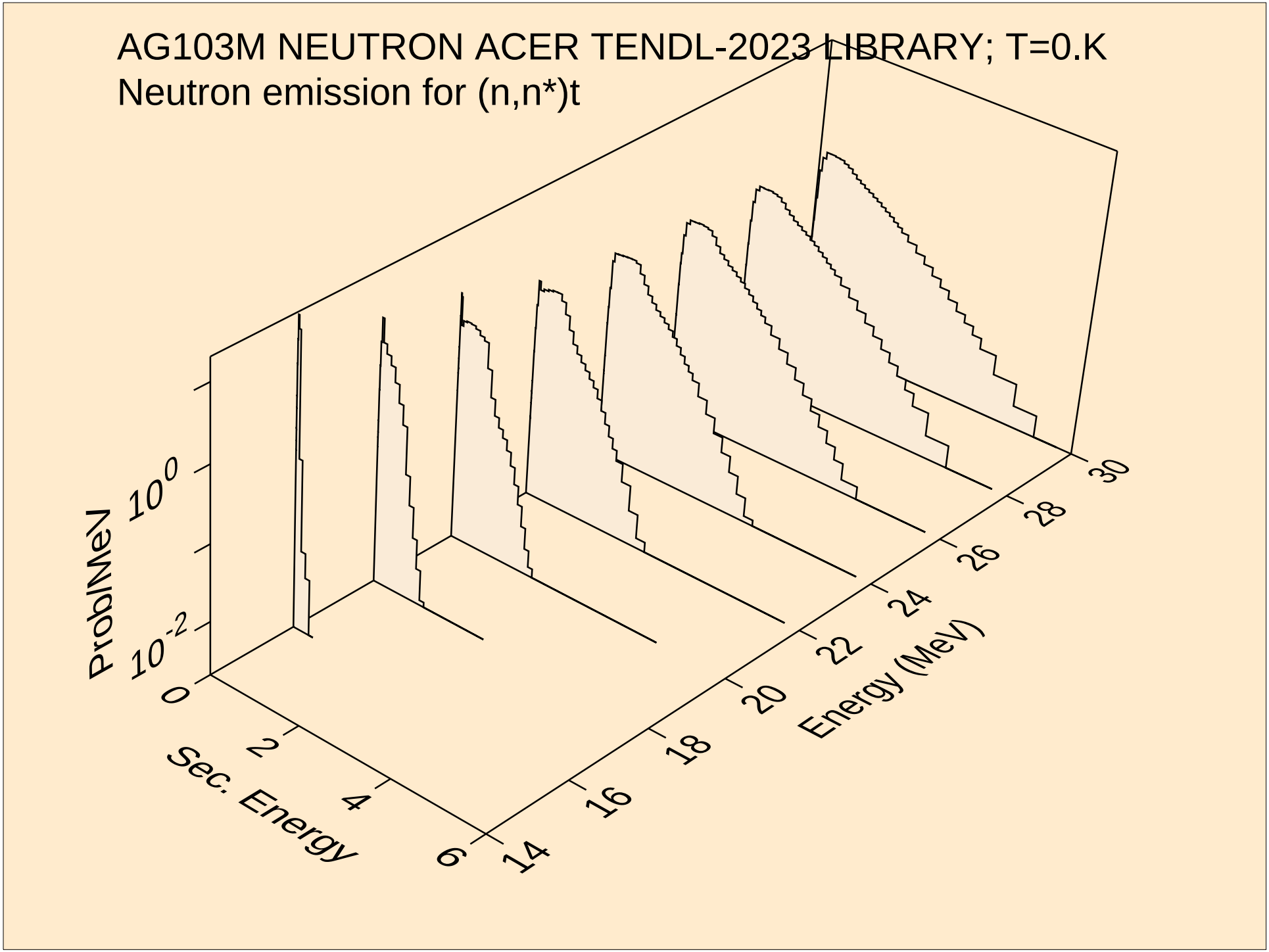

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)a
Prob/MeV
10^1
10^-1
0
2
4
6
8
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

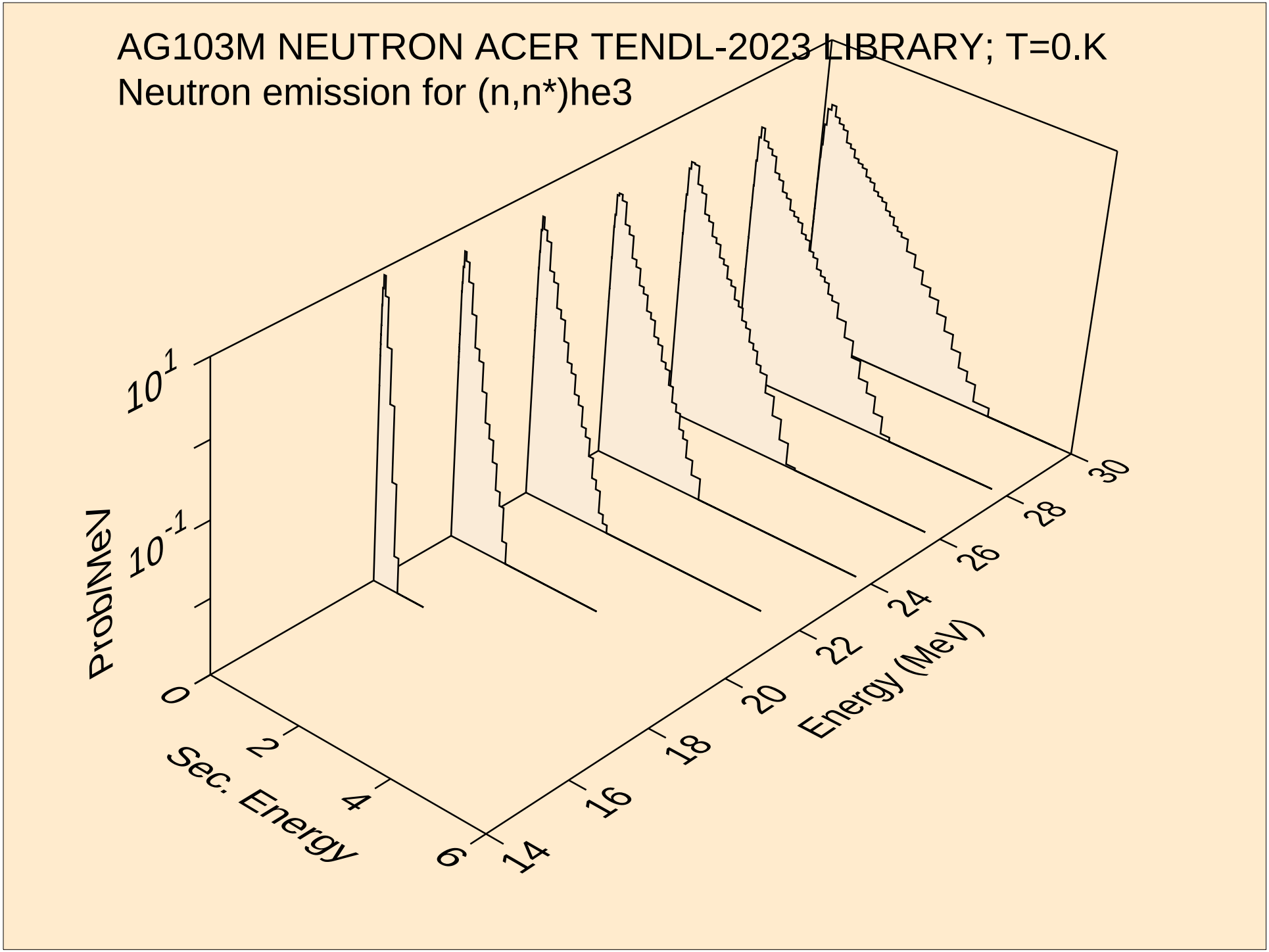

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3n)a
Prob/MeV
10-1
10-3
0
1
2
3
4
Sec. Energy
20
22
24
26
28
30
Energy (MeV)

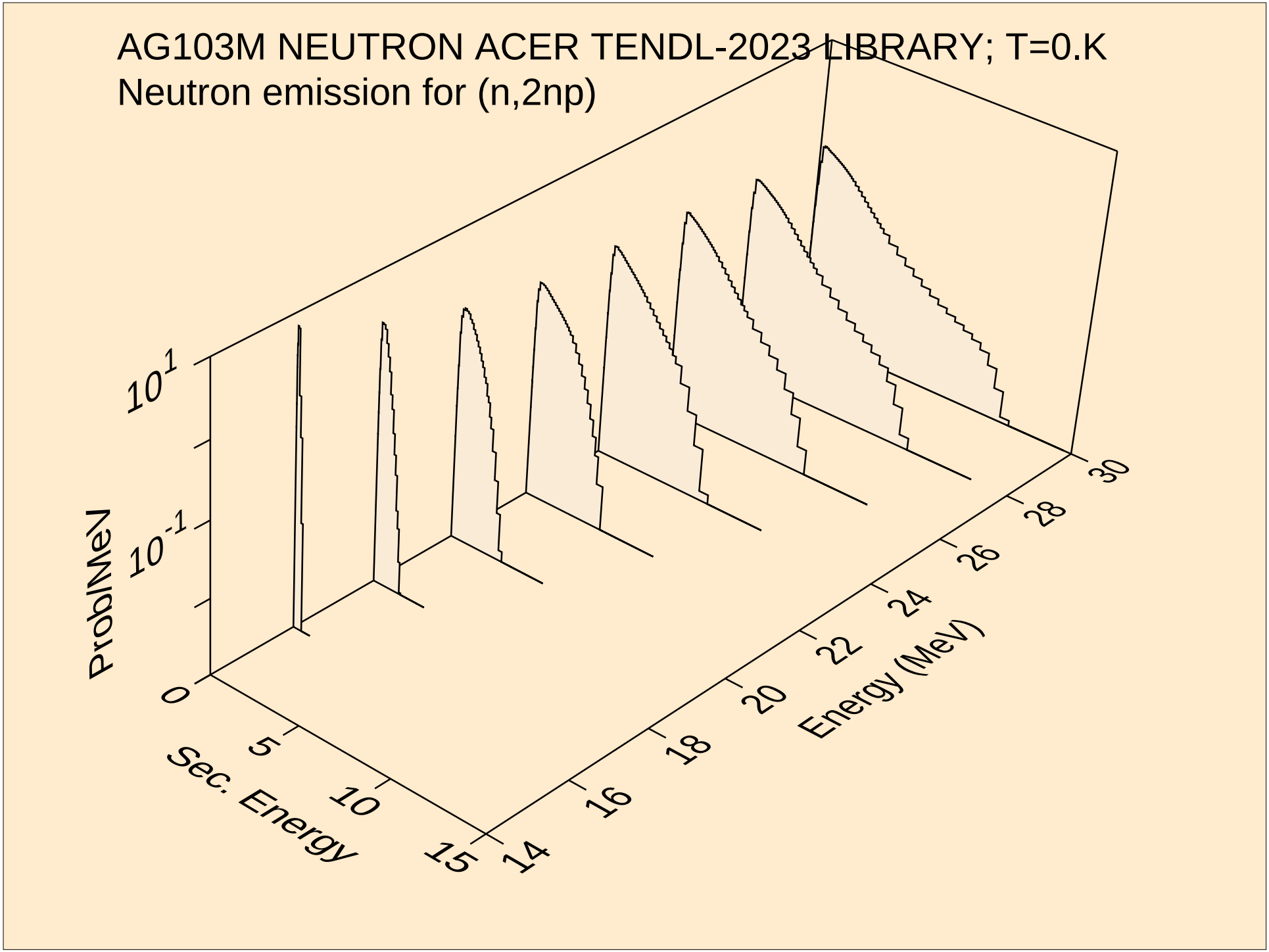

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)p
Prob/MeV
10^0
10^-2
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

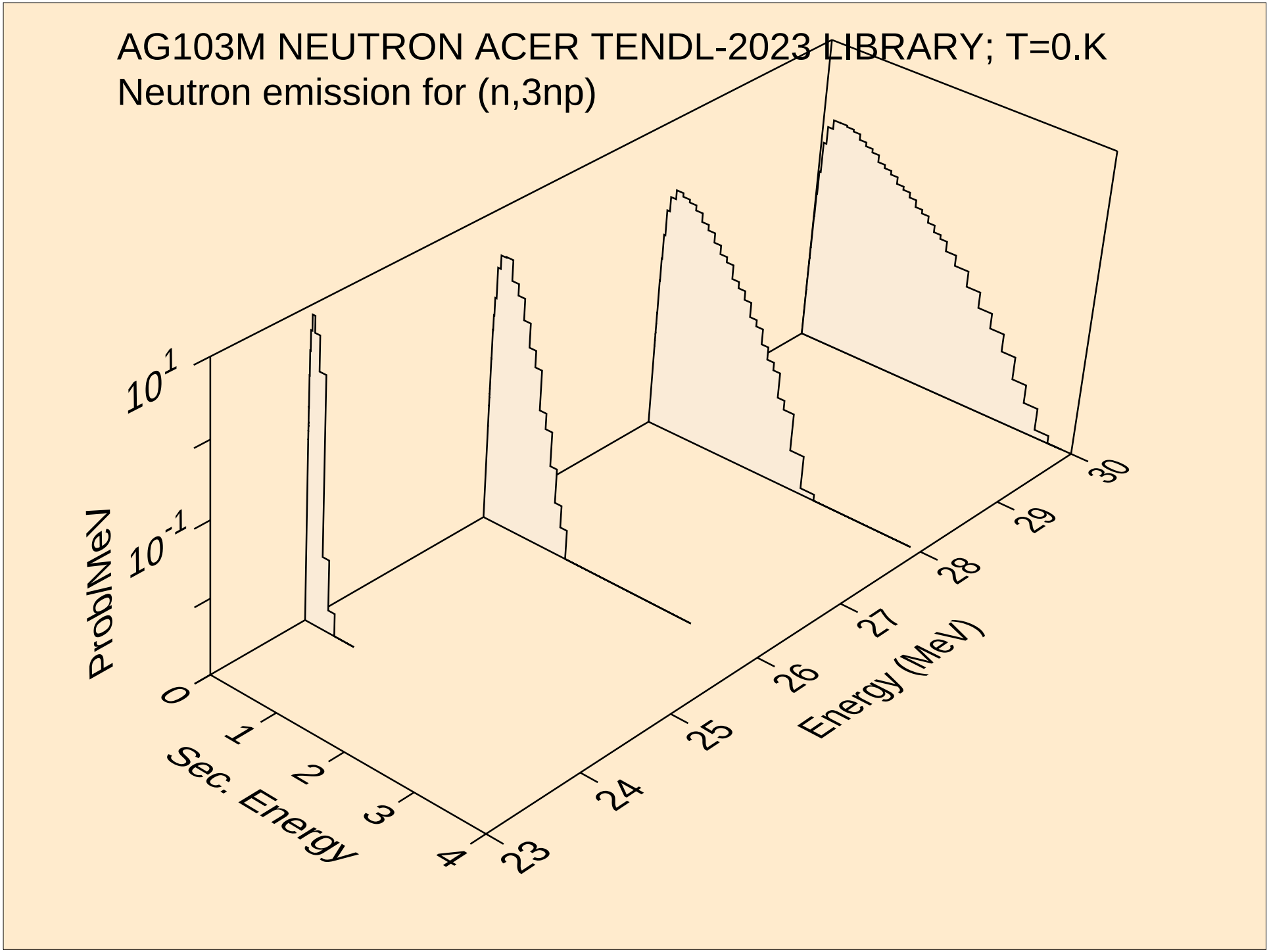

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)2a
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

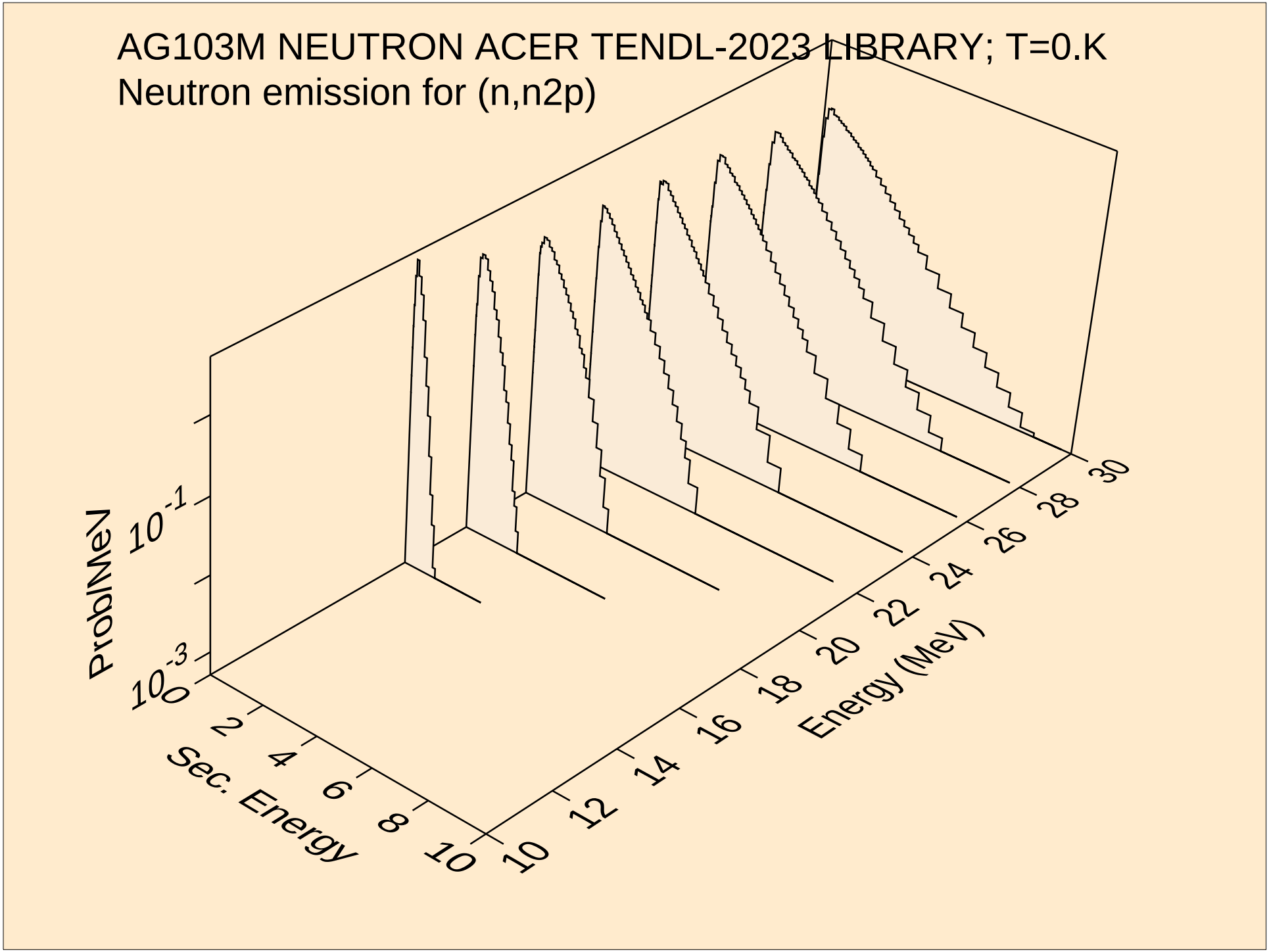

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)d
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
8
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

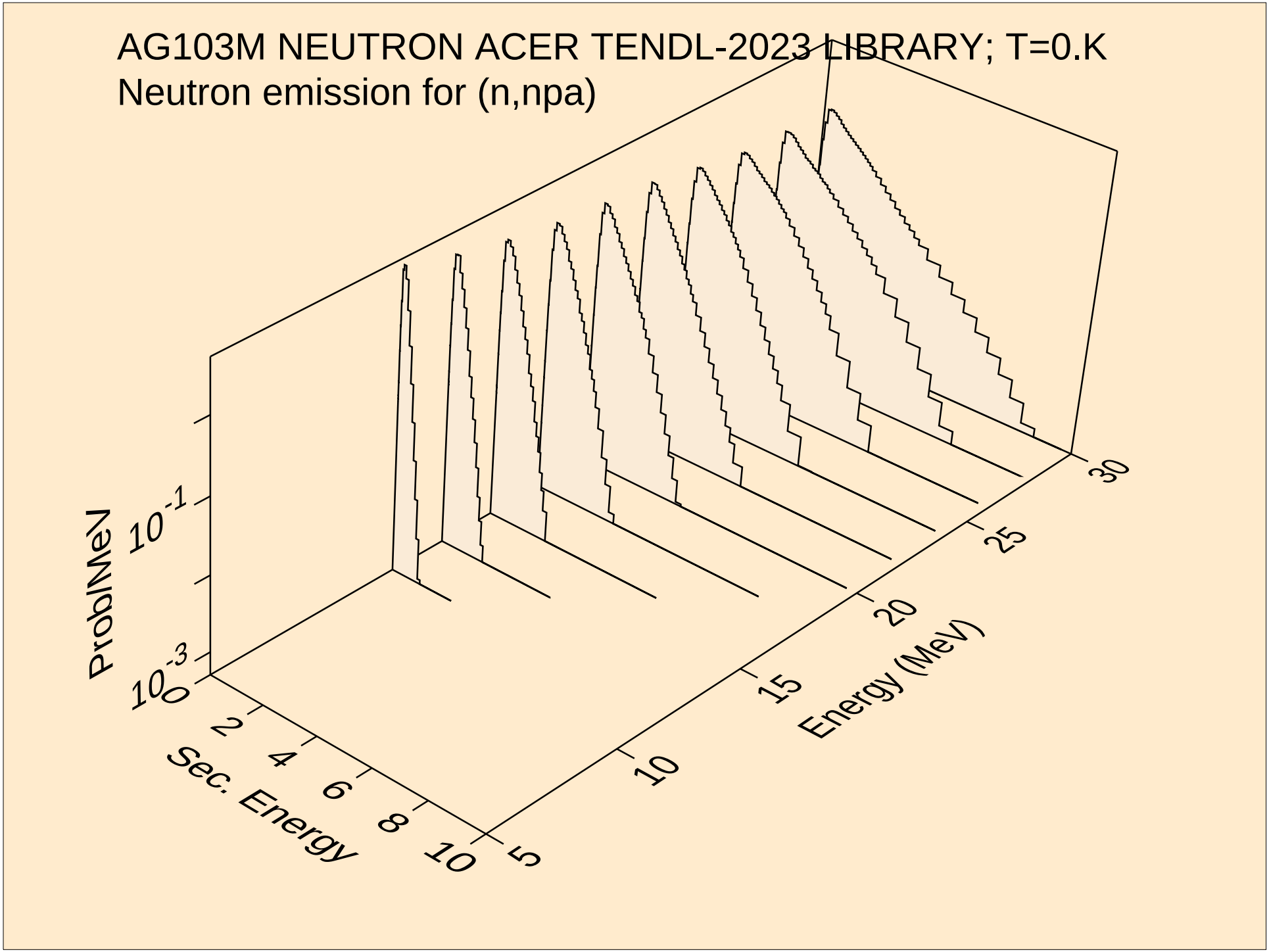

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)t
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

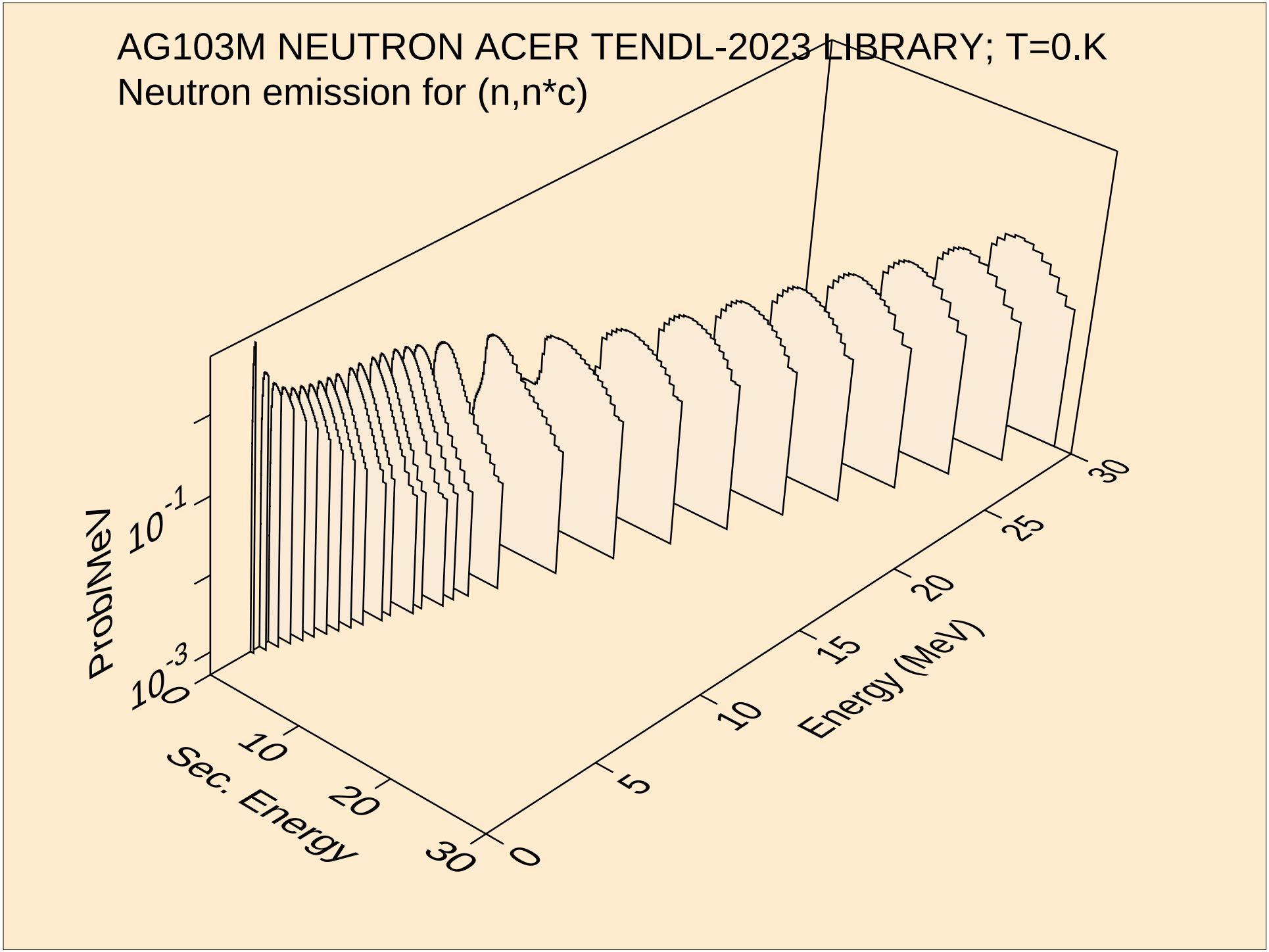

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)he3
Prob/MeV
10^1
10^-1
0
2
4
6
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

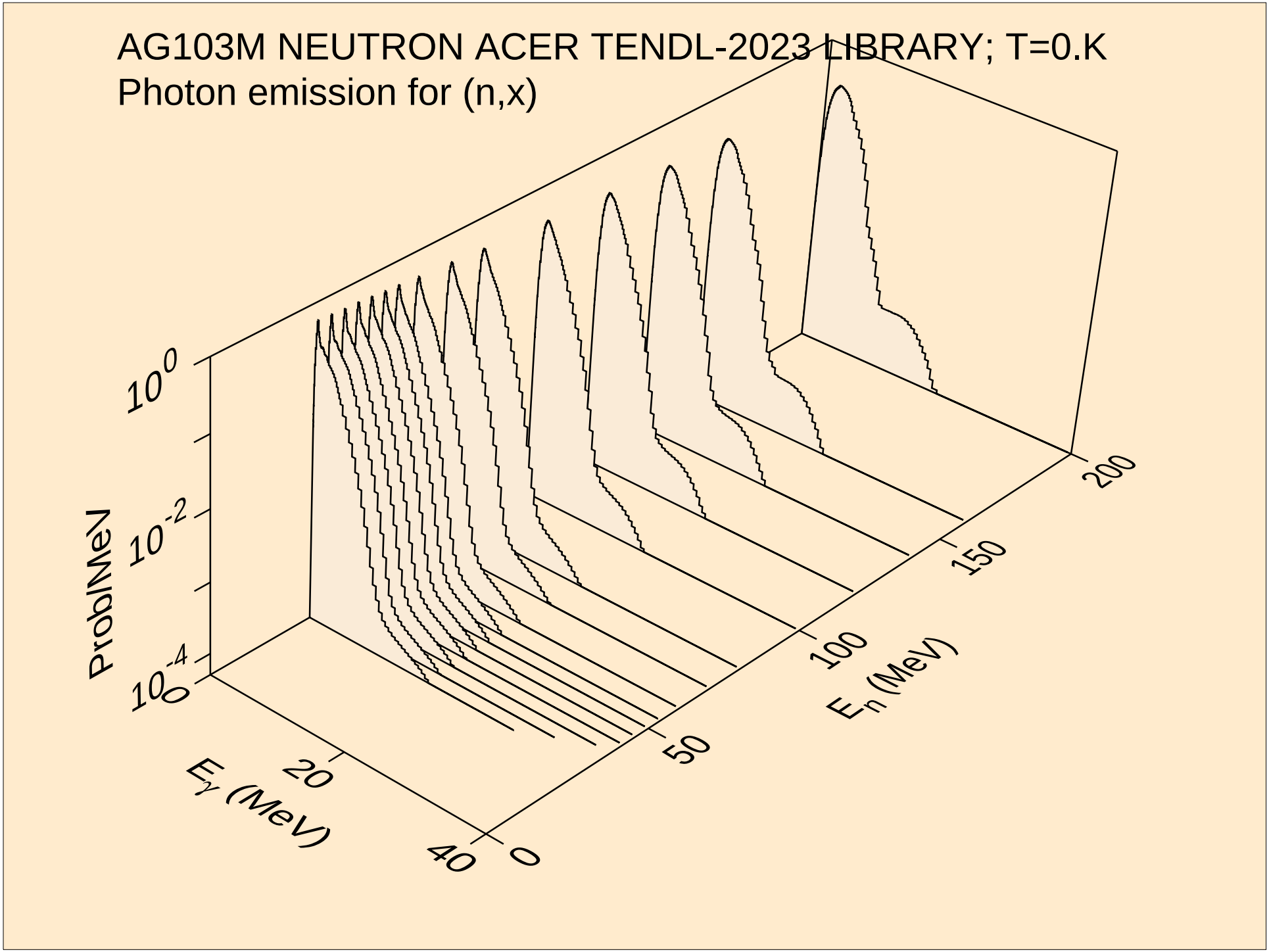

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2np)
Prob/MeV
10^1
10^-1
0
5
10
15
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

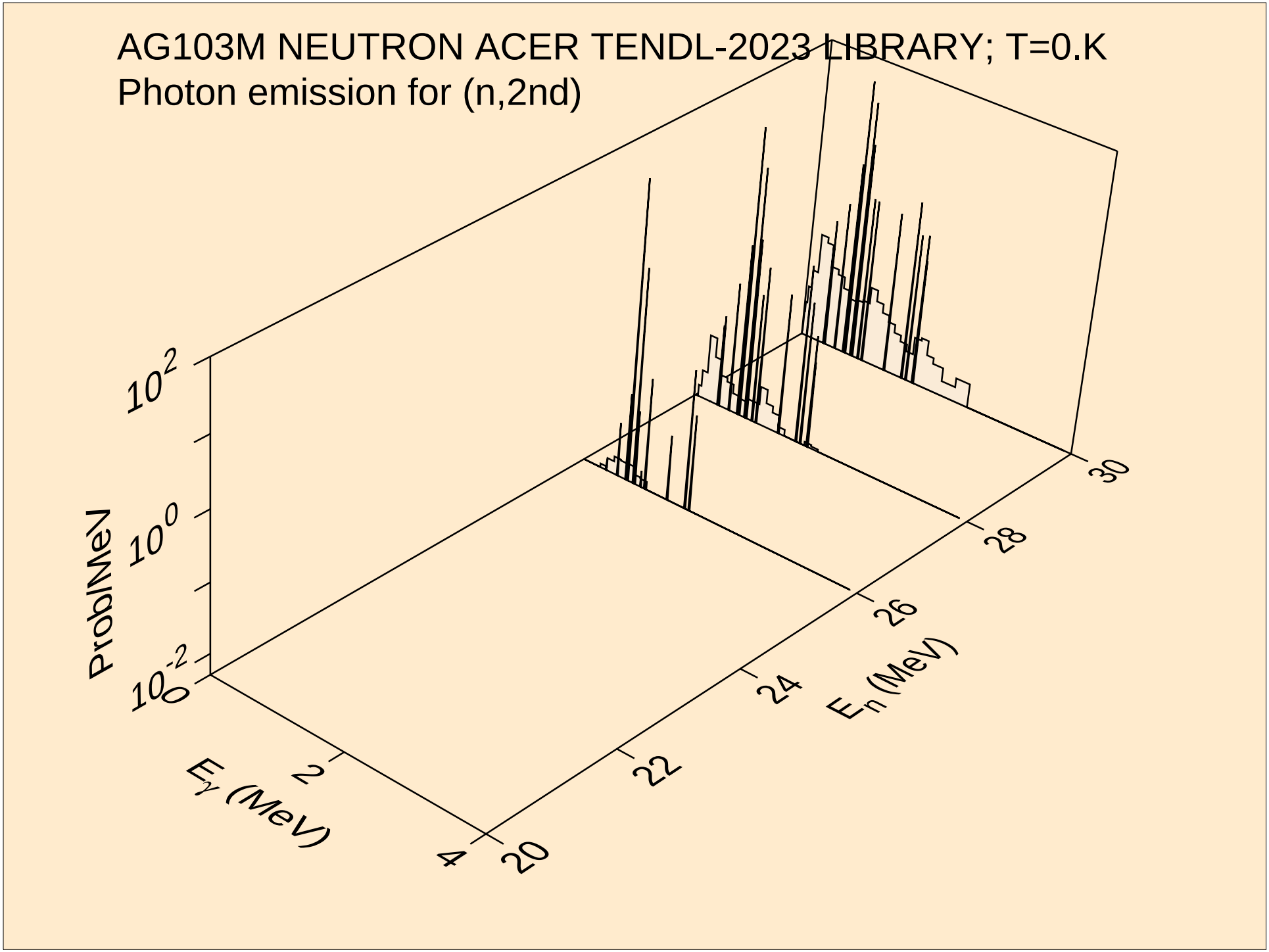

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3np)
Prob/MeV
10^{1}
10^{-1}
0
1
2
3
4
Sec. Energy
23
24
25
26
27
28
29
30
Energy (MeV)

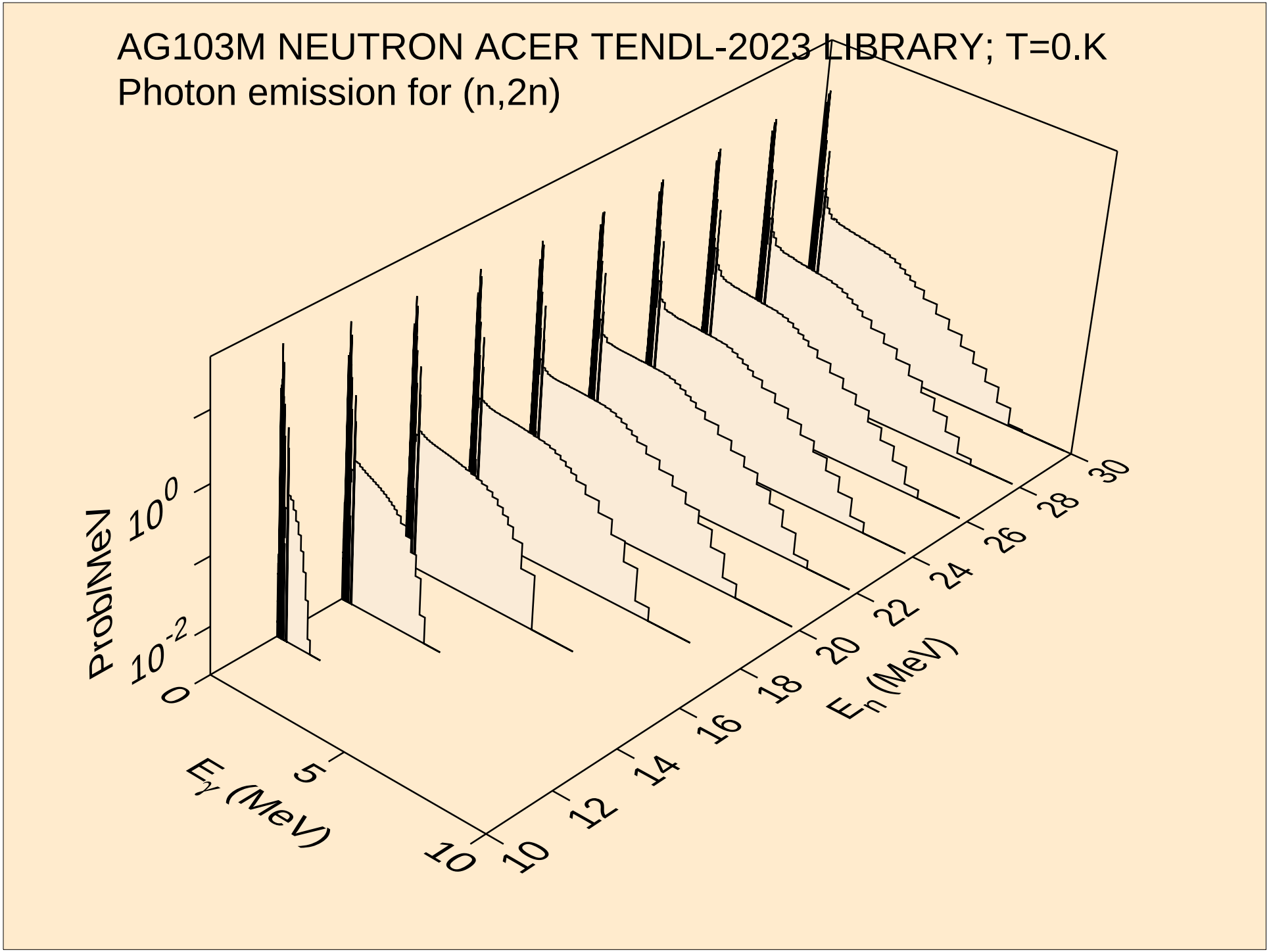

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n2p)
Prob/MeV
10-1
10-3
0
2
4
6
8
10
Sec. Energy
10
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

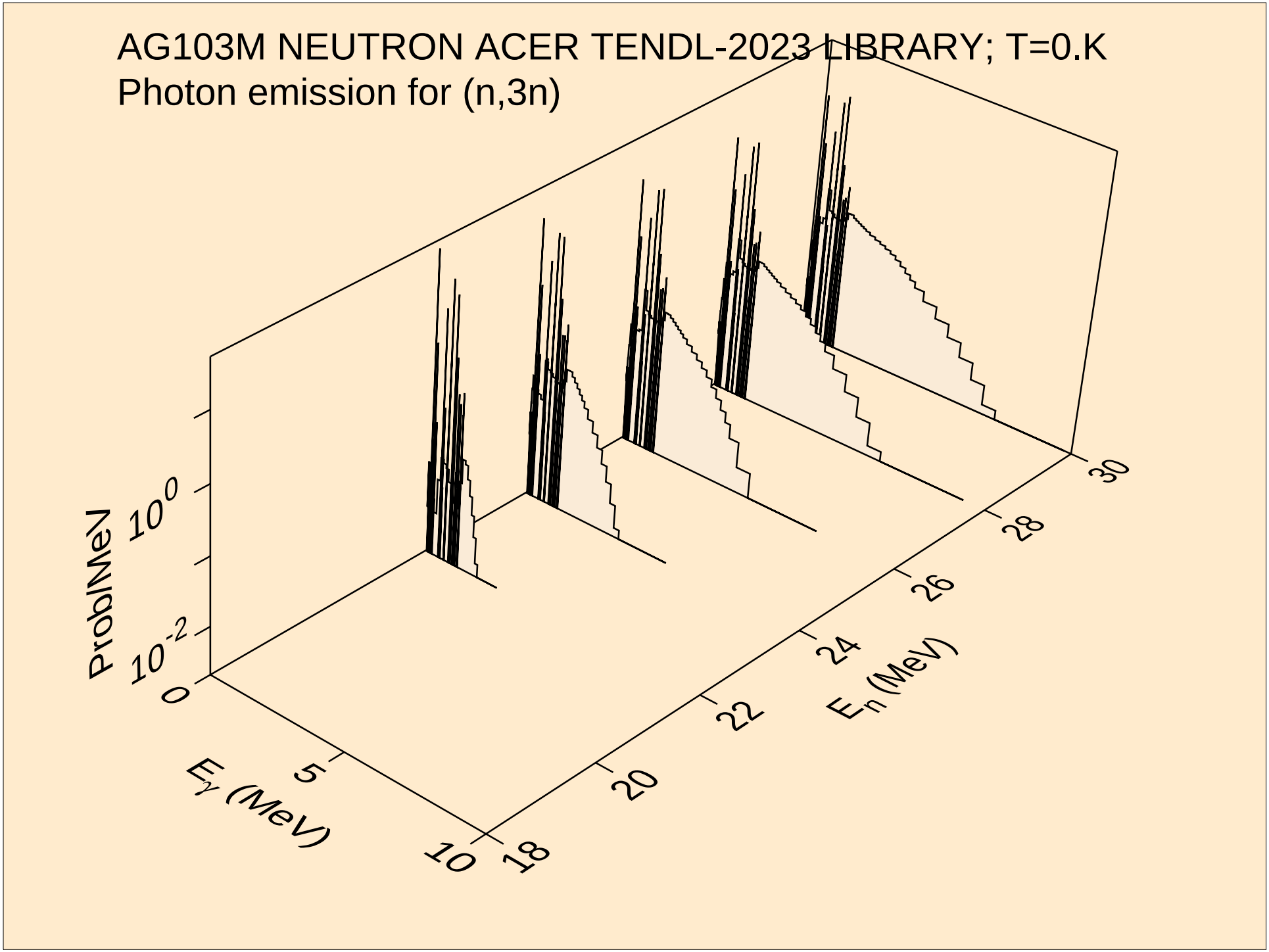

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,npa)
Prob/MeV
10-1
10-3
0
2
4
6
8
10
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

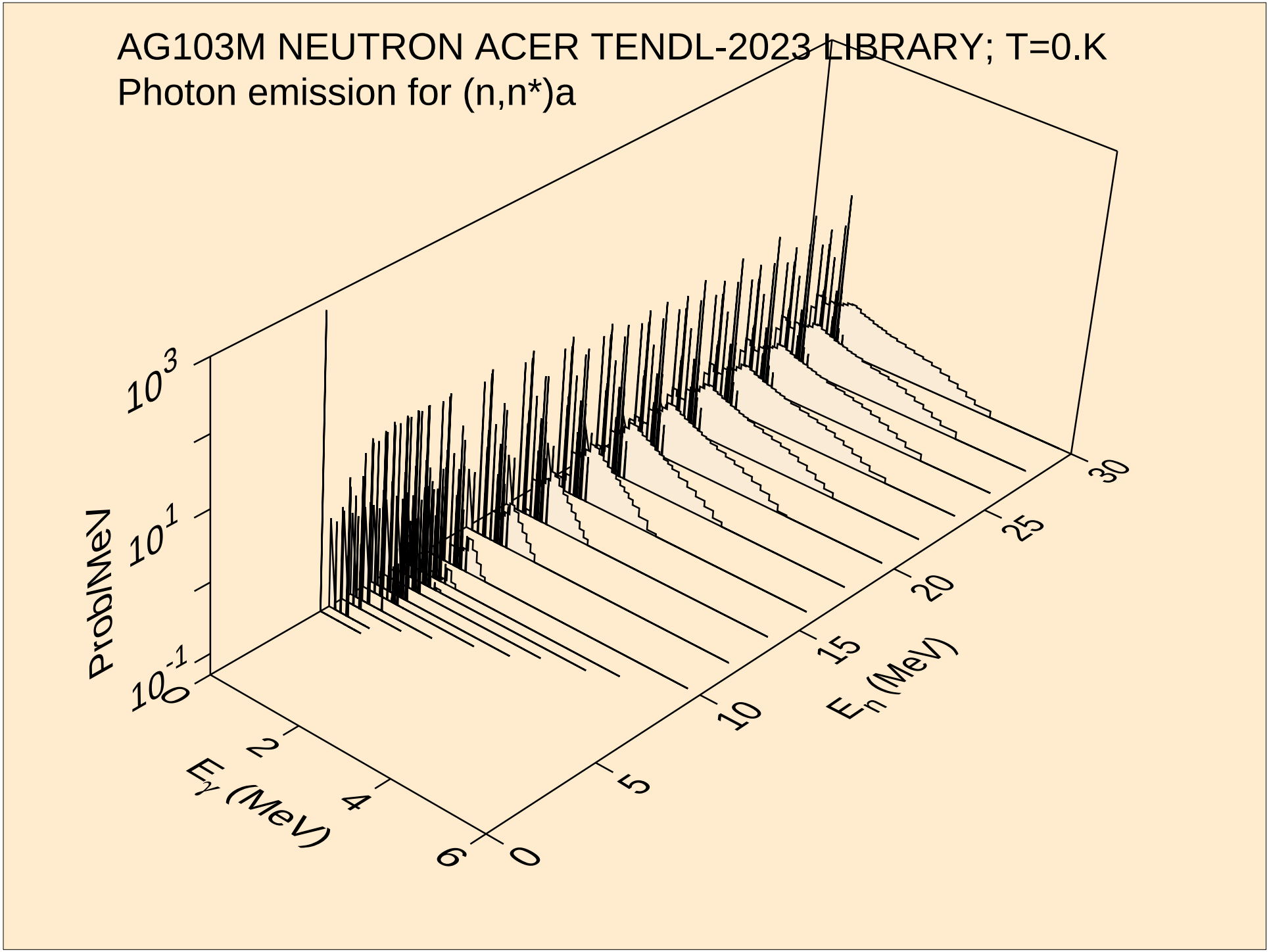

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*c)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

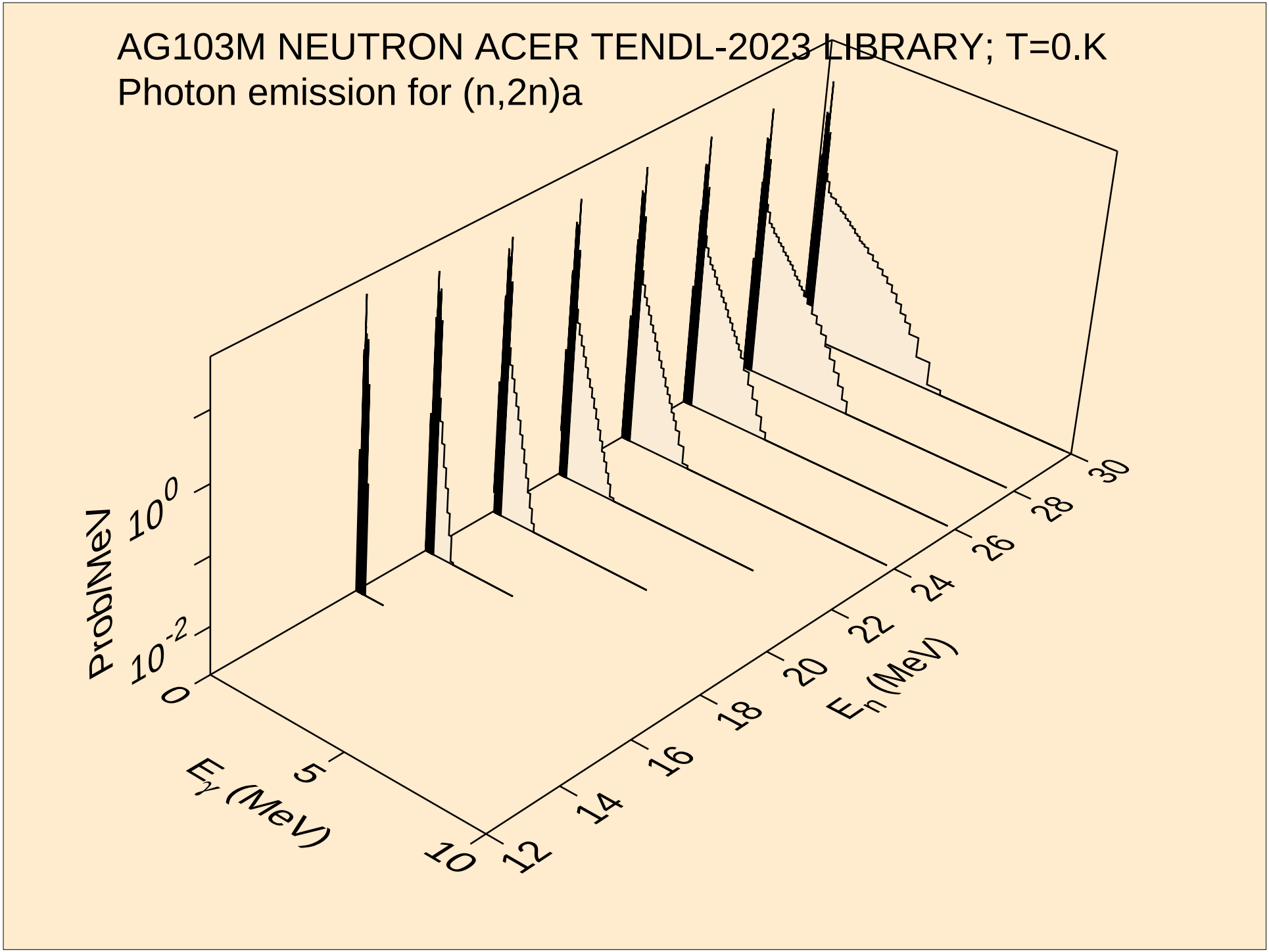

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,x)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
20
40
E_γ (MeV)
0
50
100
150
200
E_n (MeV)

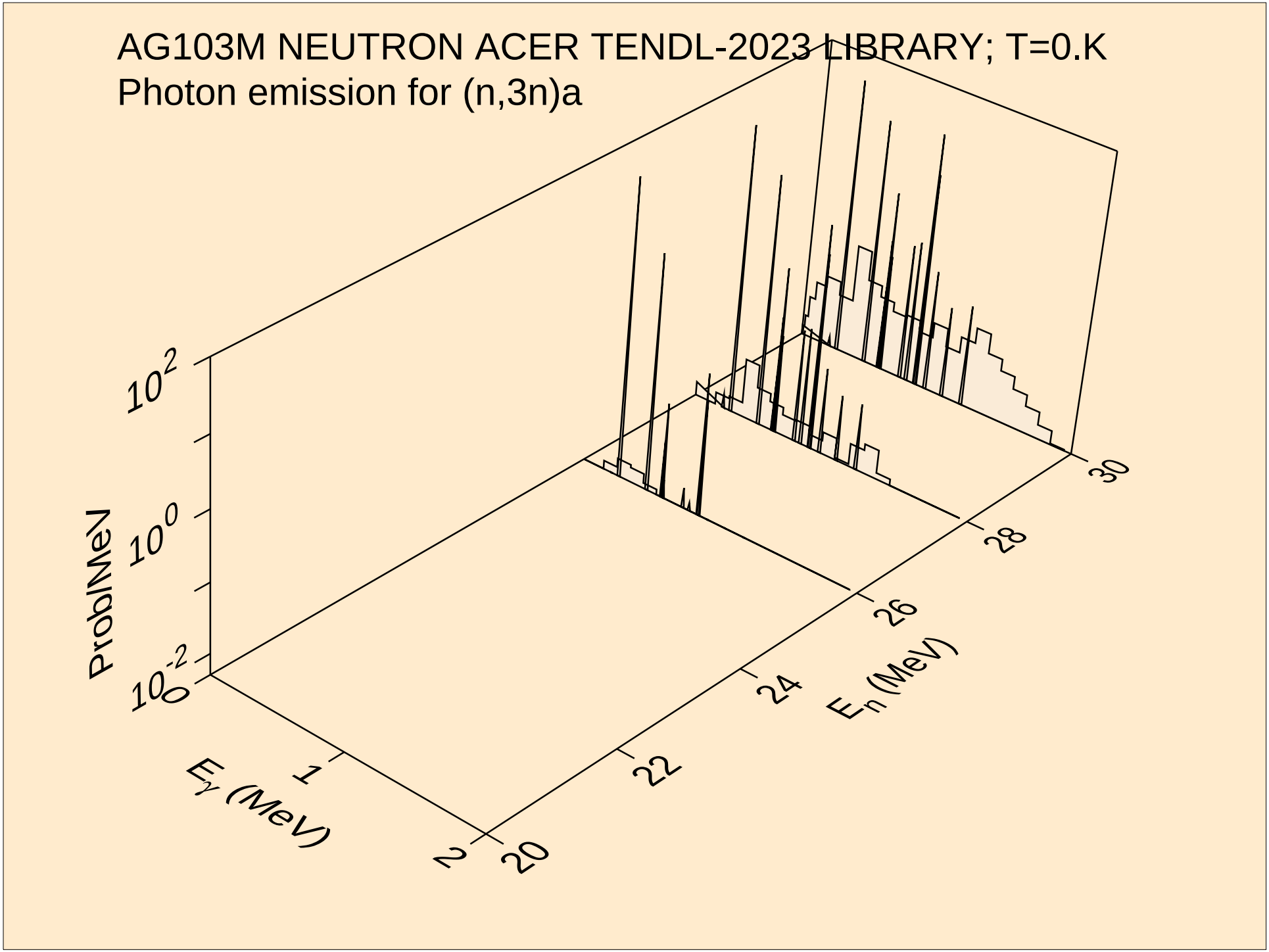

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2nd)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
2
4
E_n (MeV)
20
22
24
26
28
30

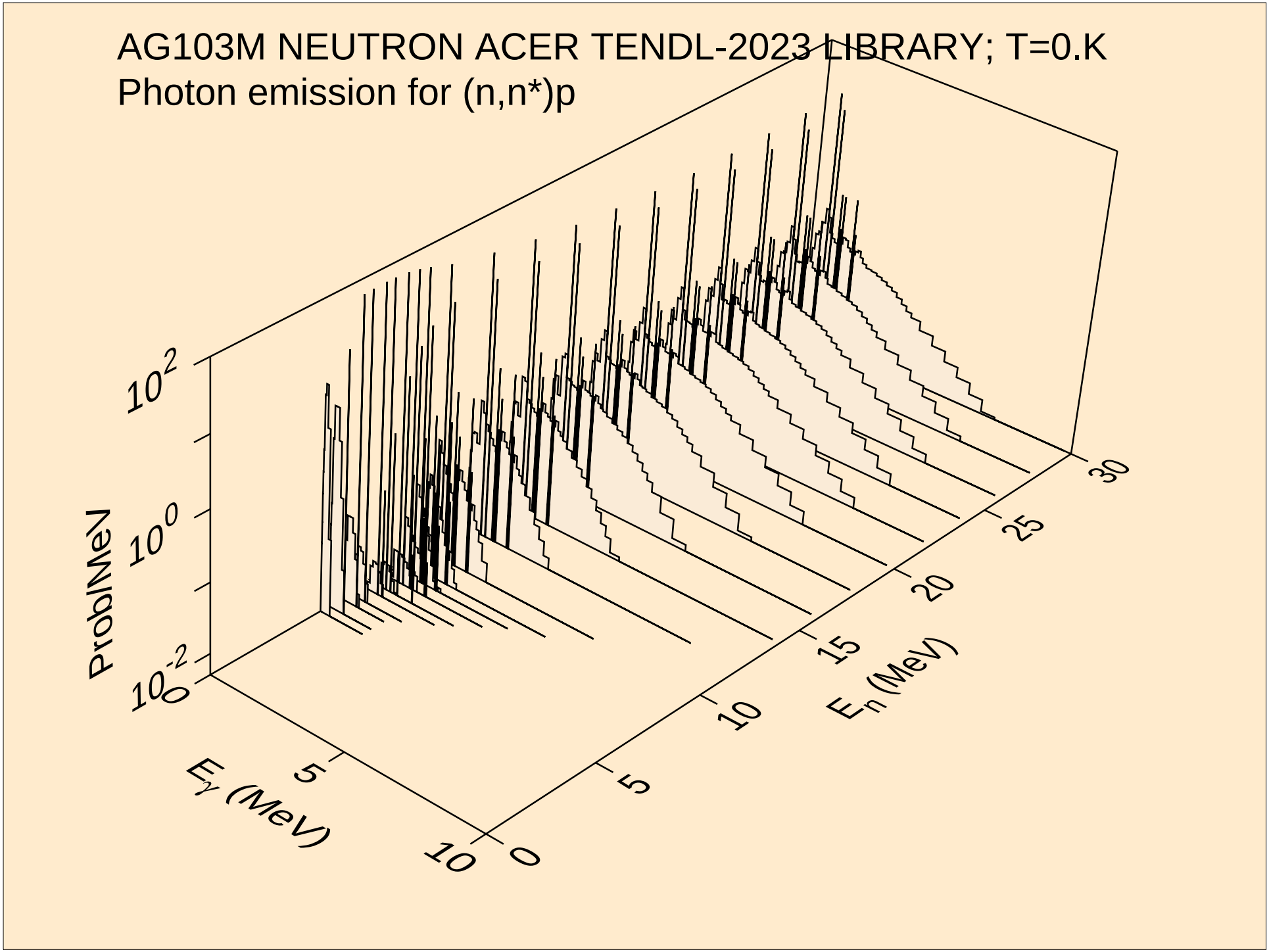

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
10
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

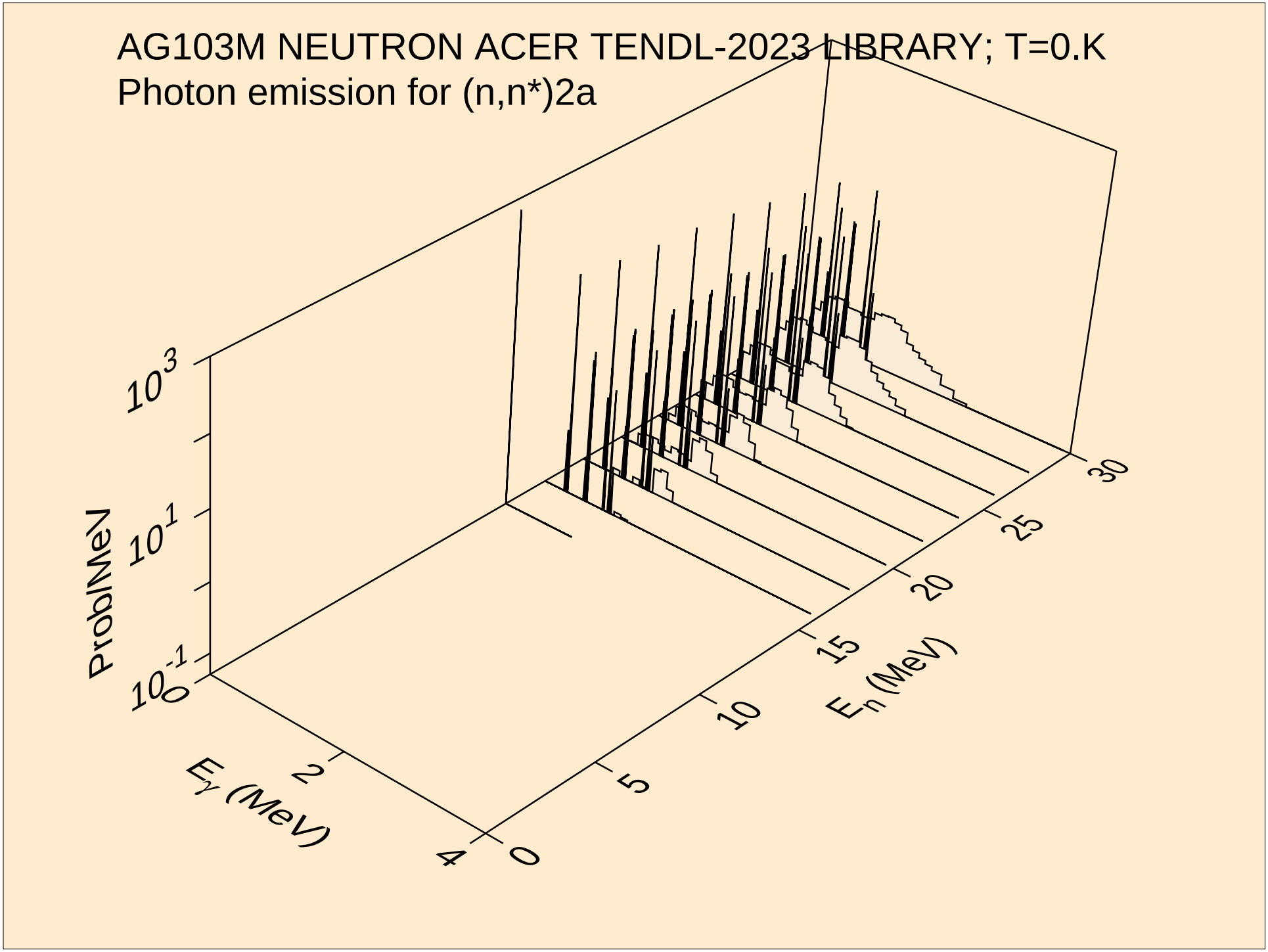

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
18
20
22
24
26
28
30
E_n (MeV)

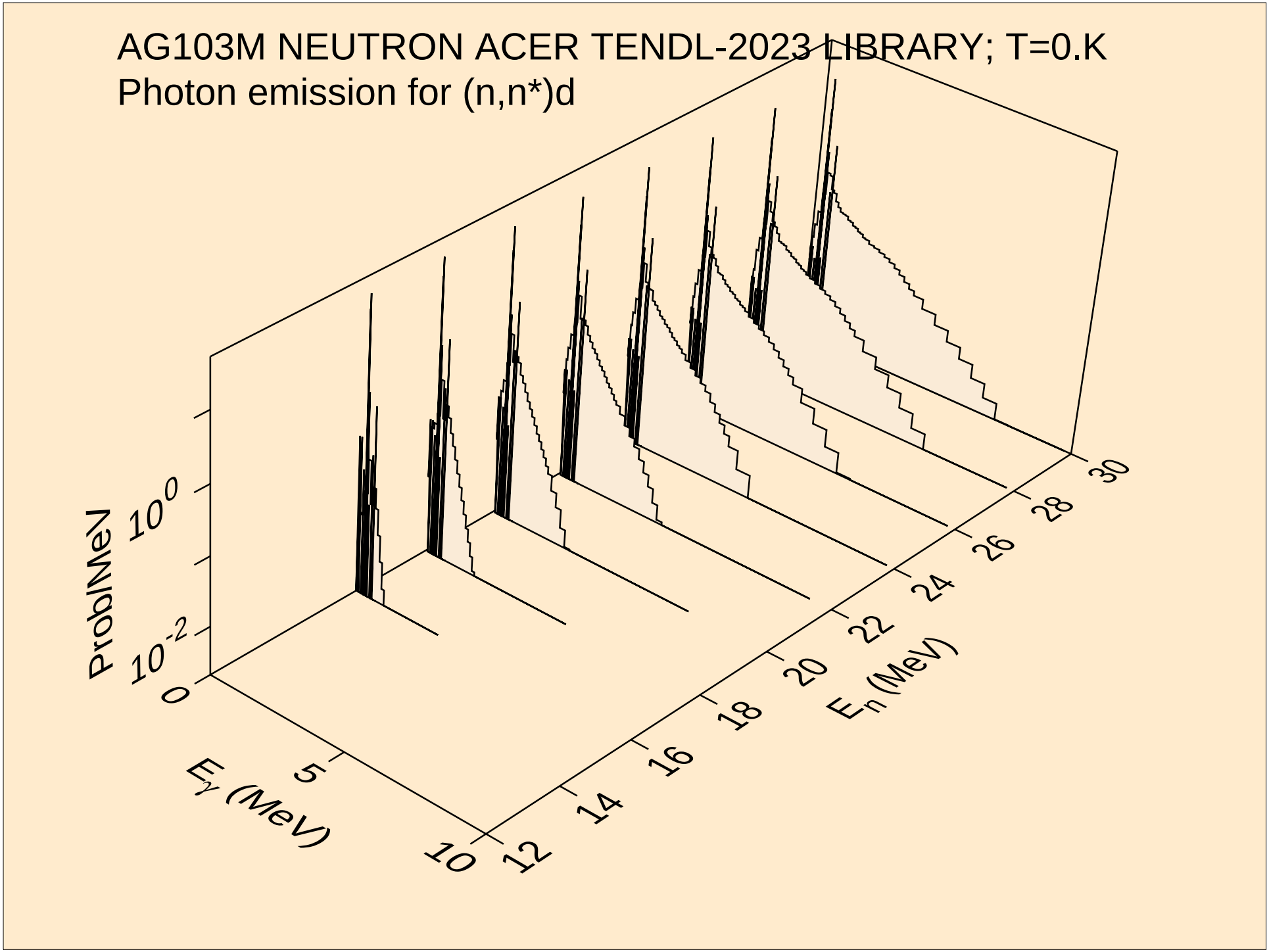

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

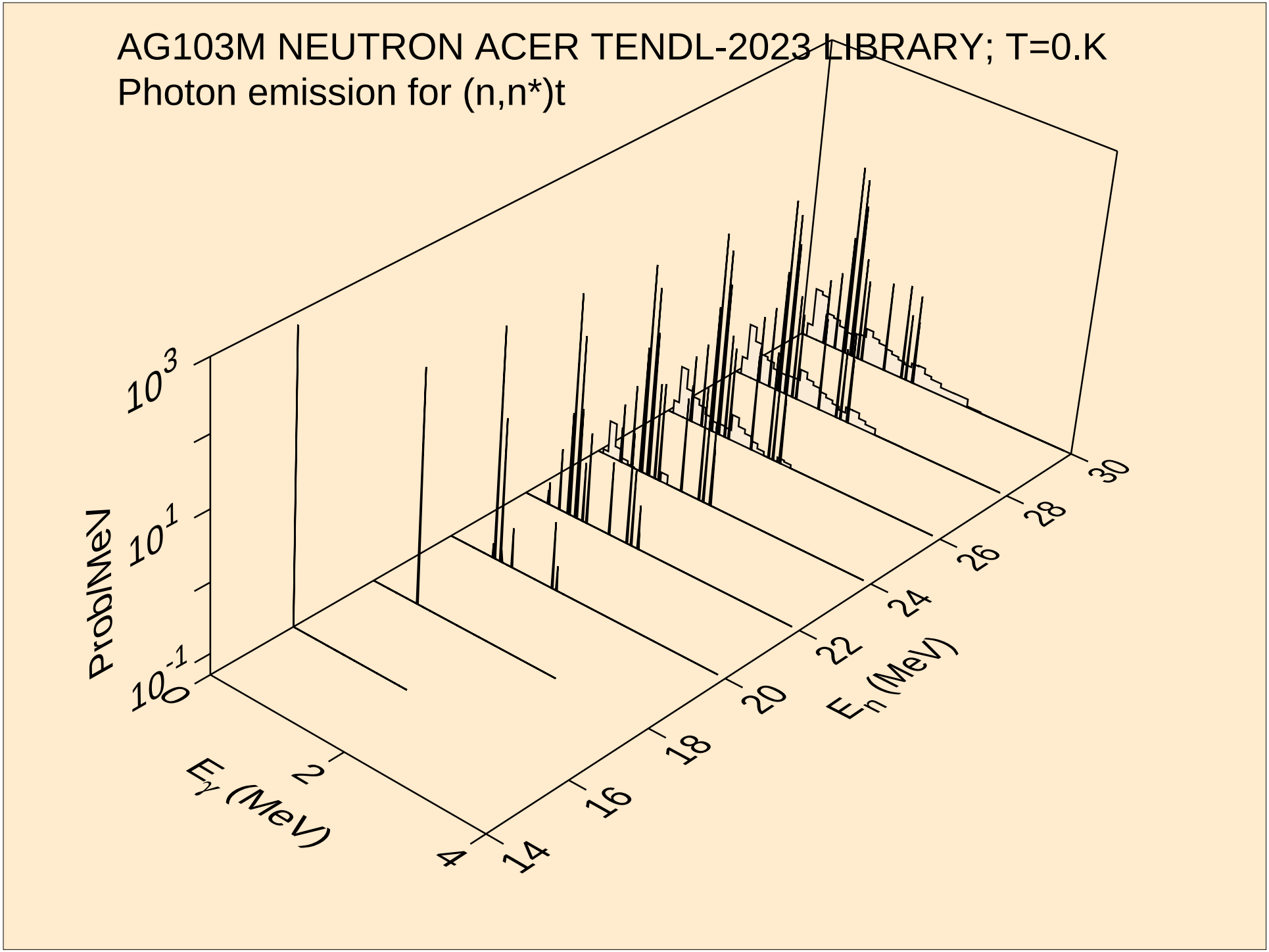

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

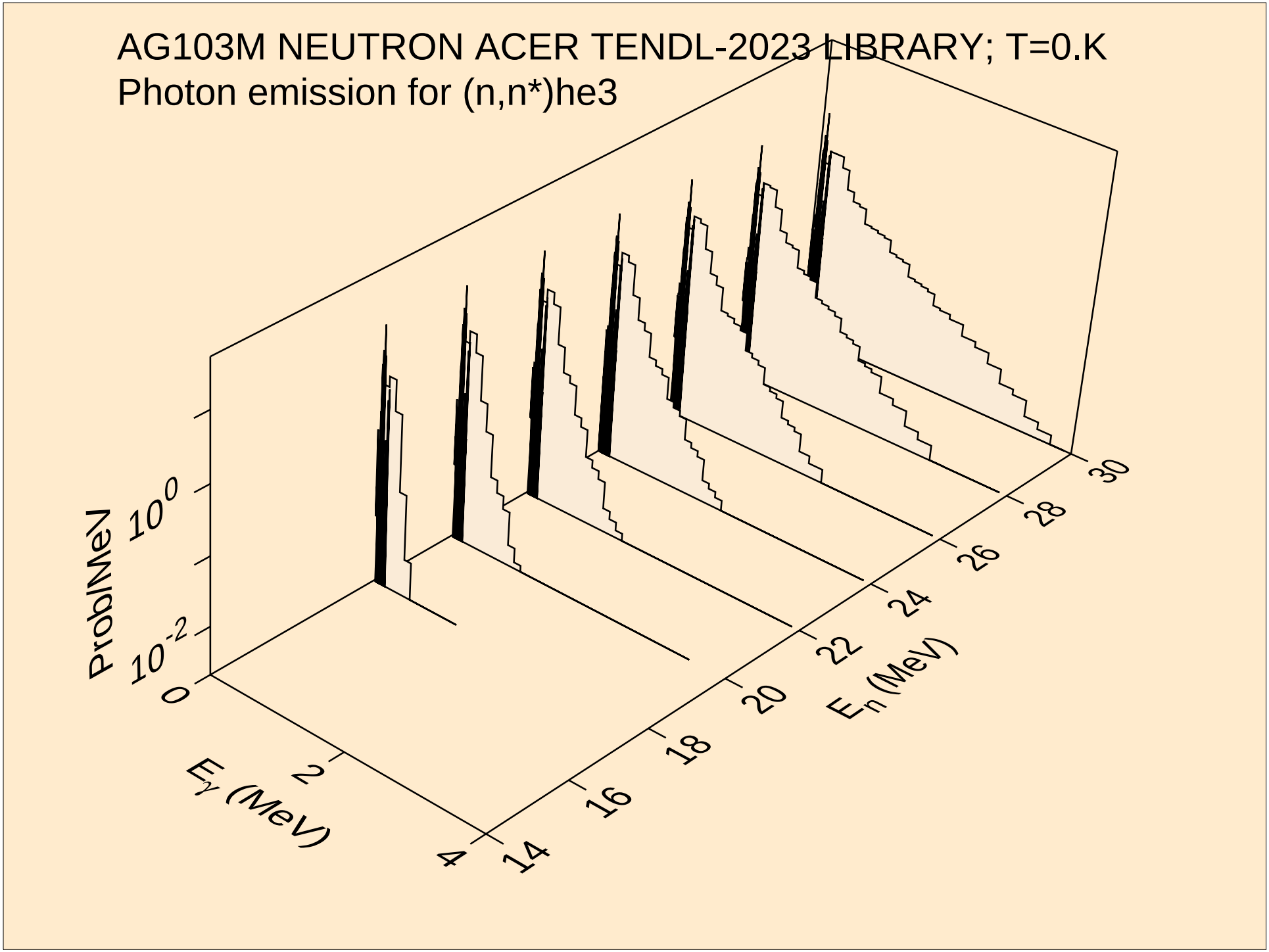

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)a
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
1
2
E_n (MeV)
20
22
24
26
28
30

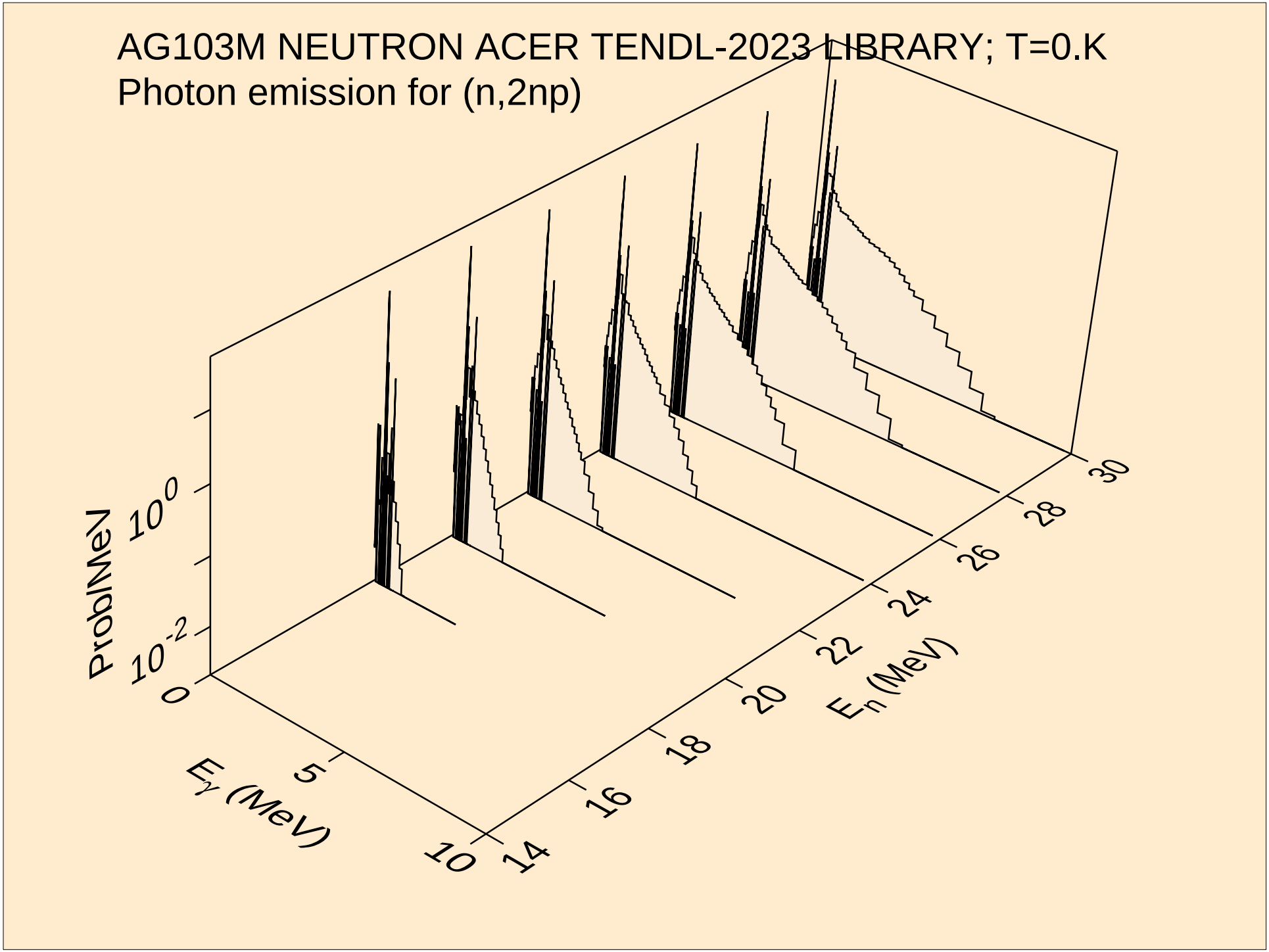

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

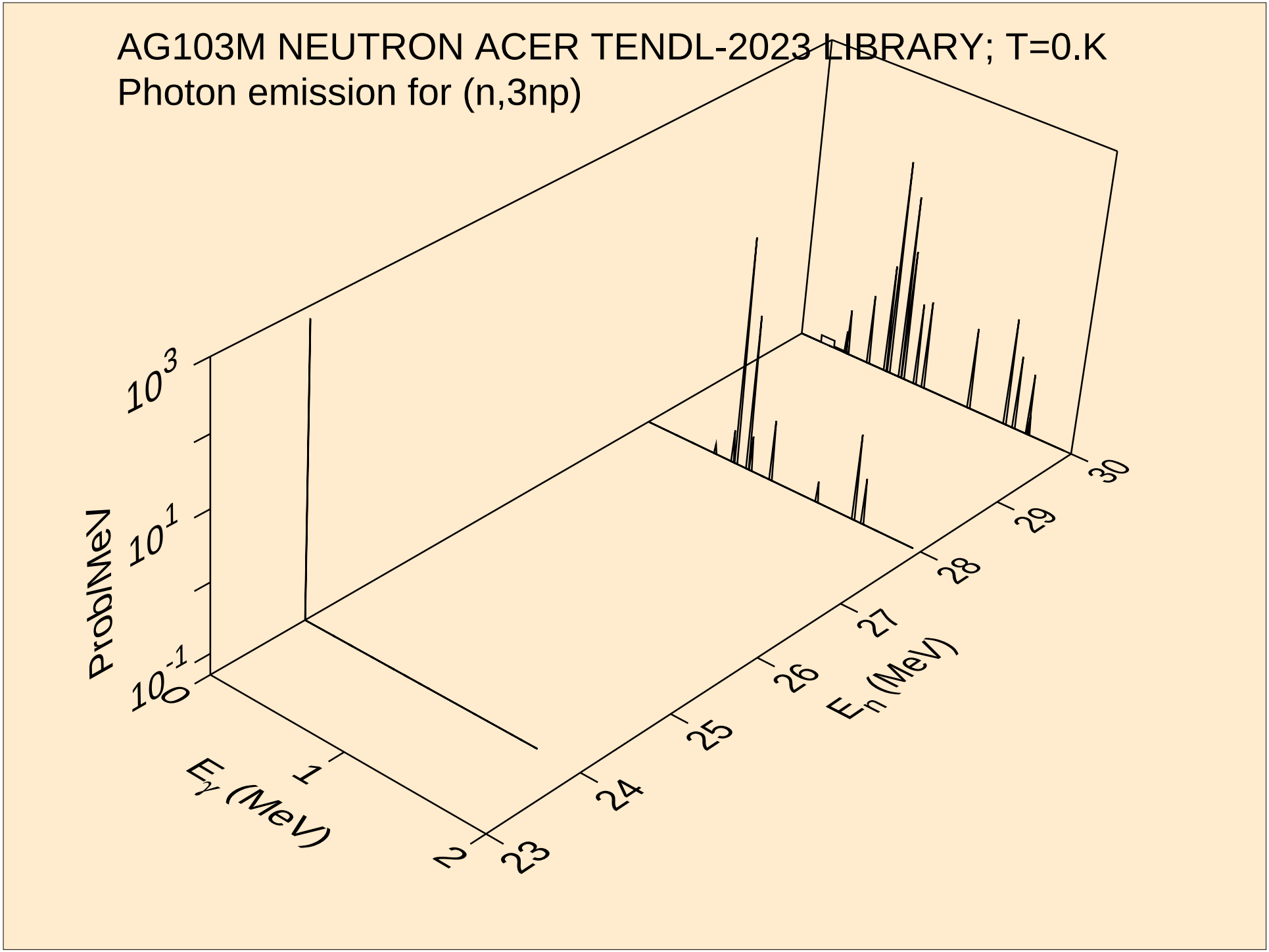

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)2a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

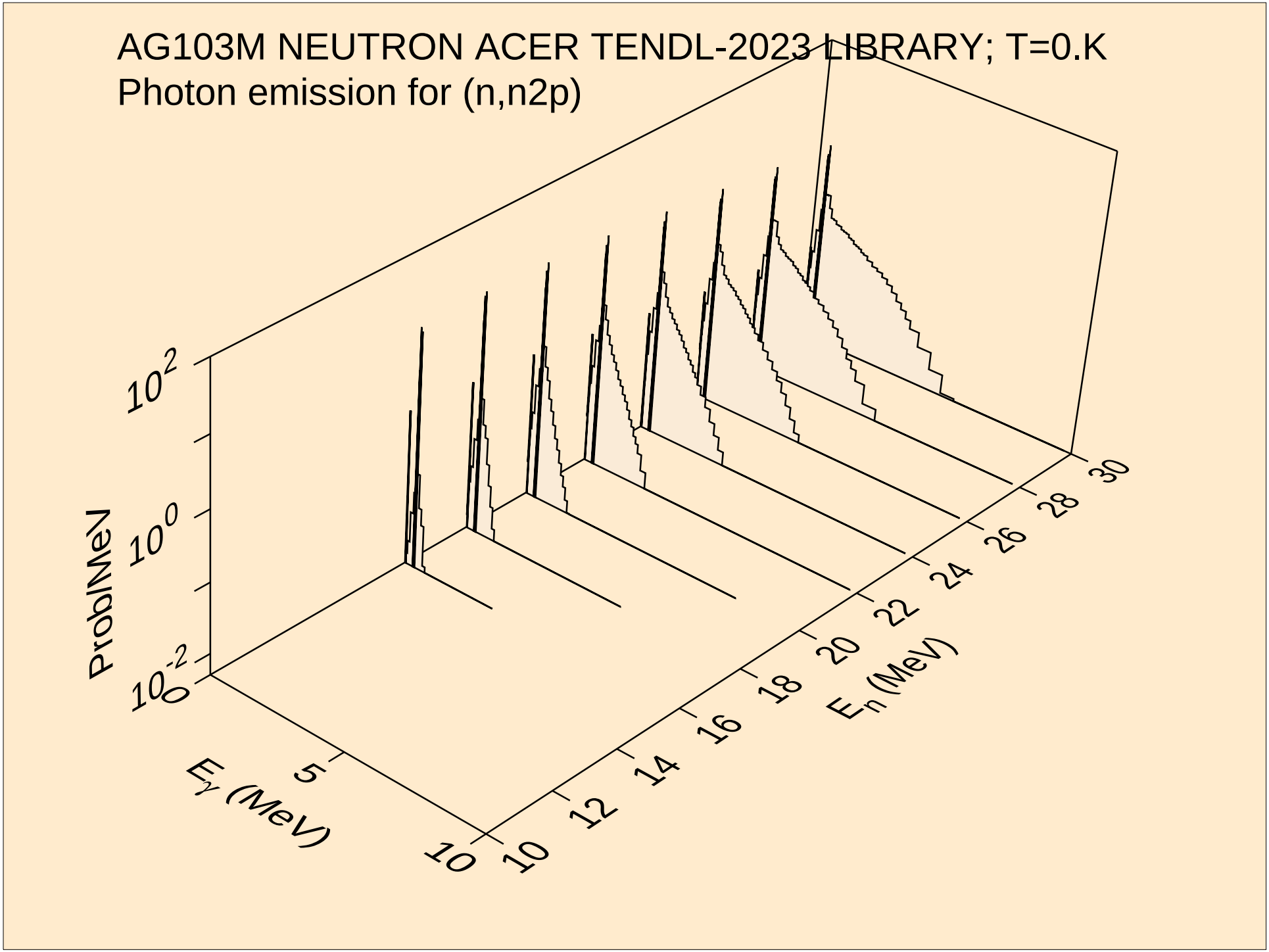

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

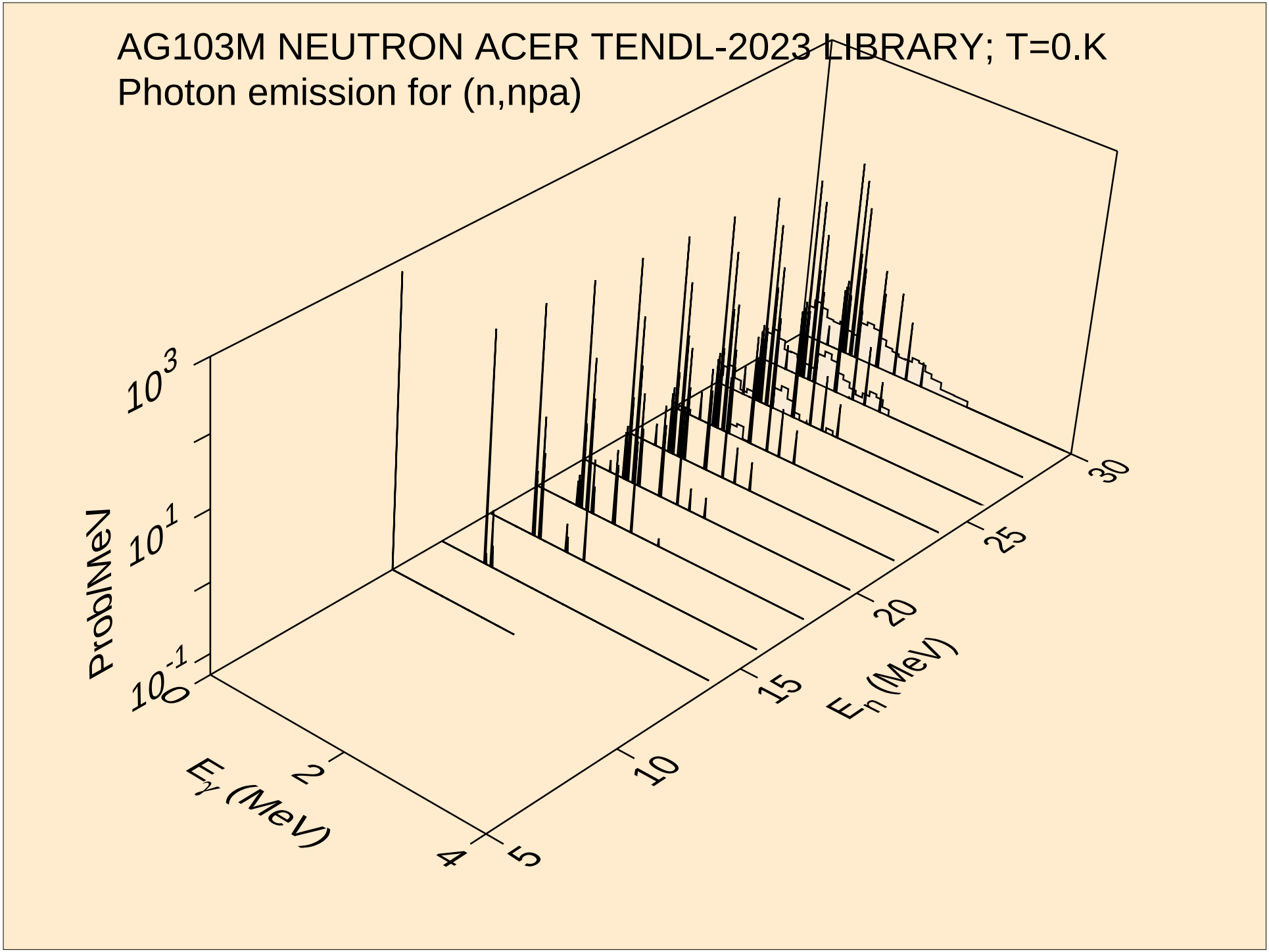

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)t
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
14
16
18
20
22
24
26
28
30
E_n (MeV)

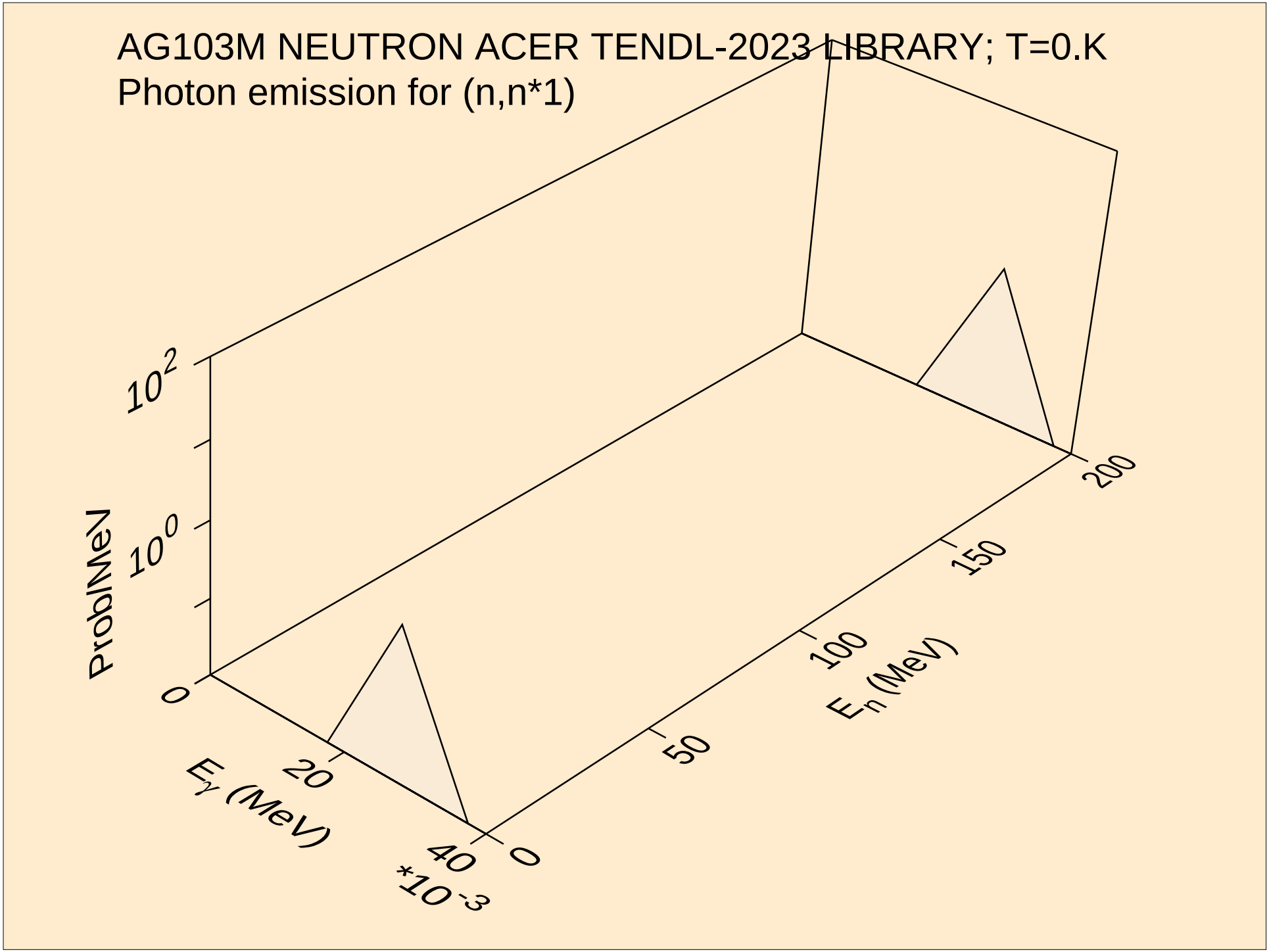

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)he3
Prob/MeV
10^{0}
10^{-2}
0
2
4
E_γ (MeV)
14
16
18
20
22
24
26
28
30
E_n (MeV)

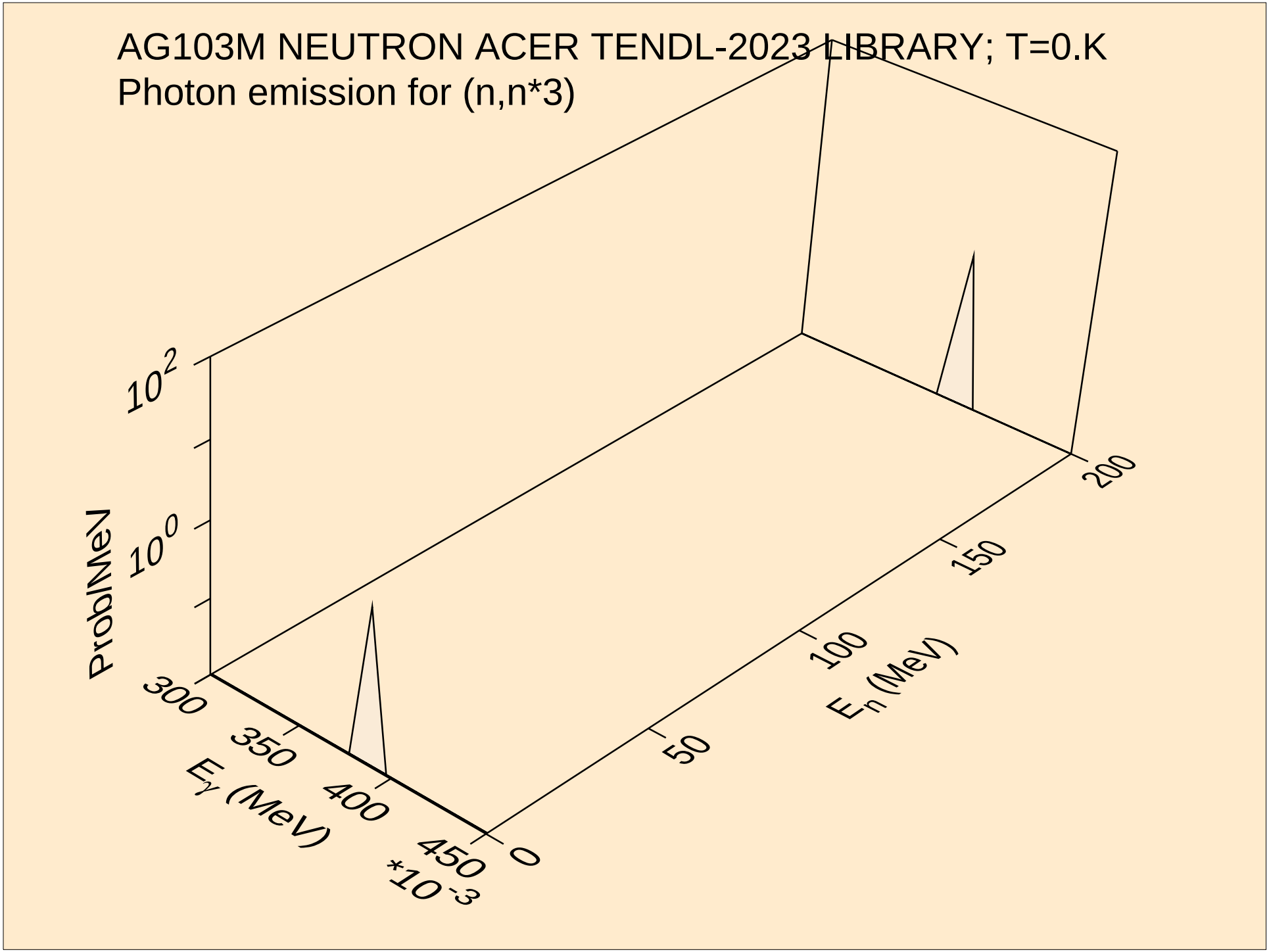

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
14
16
18
20
22
24
26
28
30
E_n (MeV)

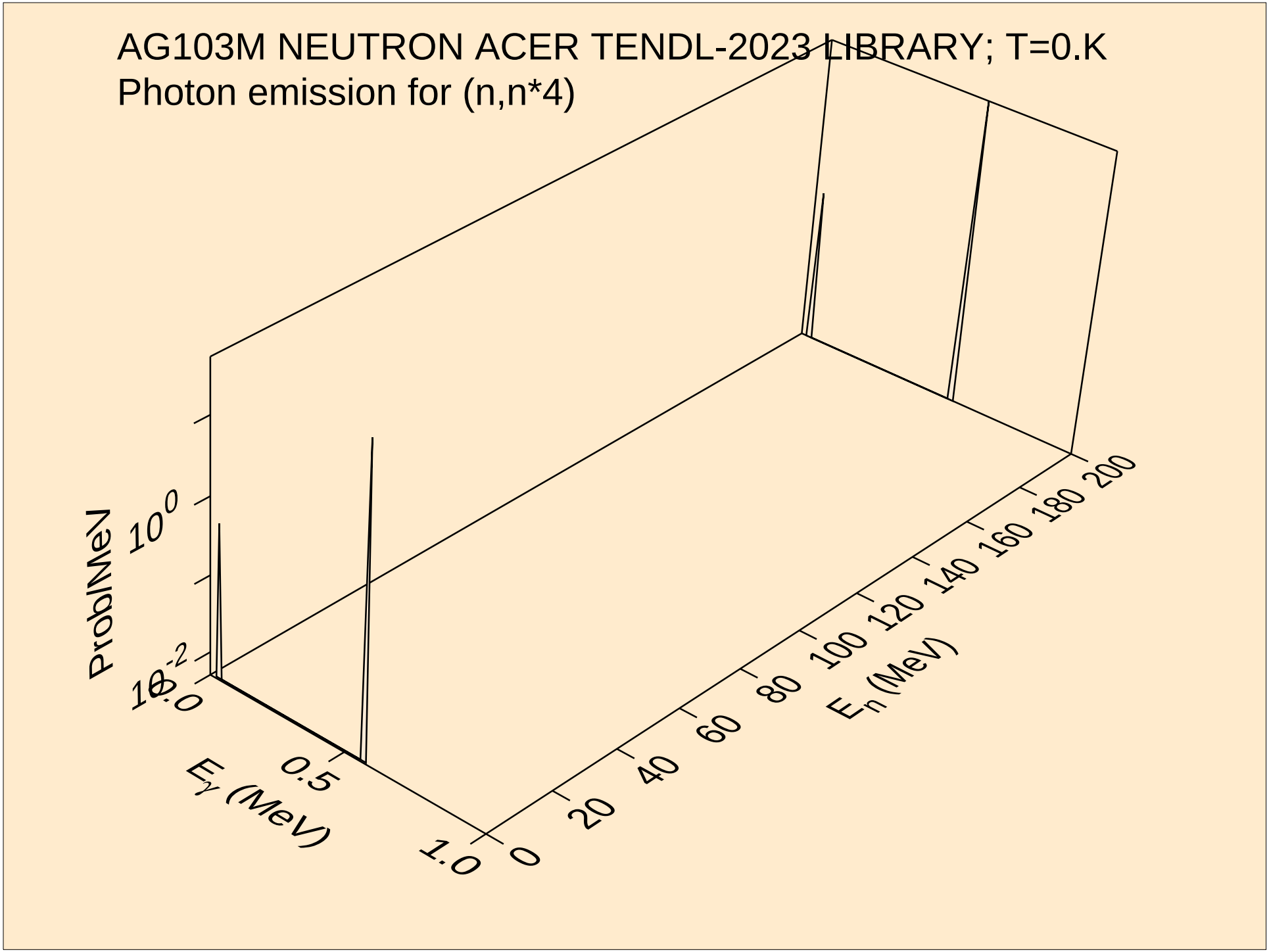

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3np)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
1
2
E_γ (MeV)
23
24
25
26
27
28
29
30
E_n (MeV)

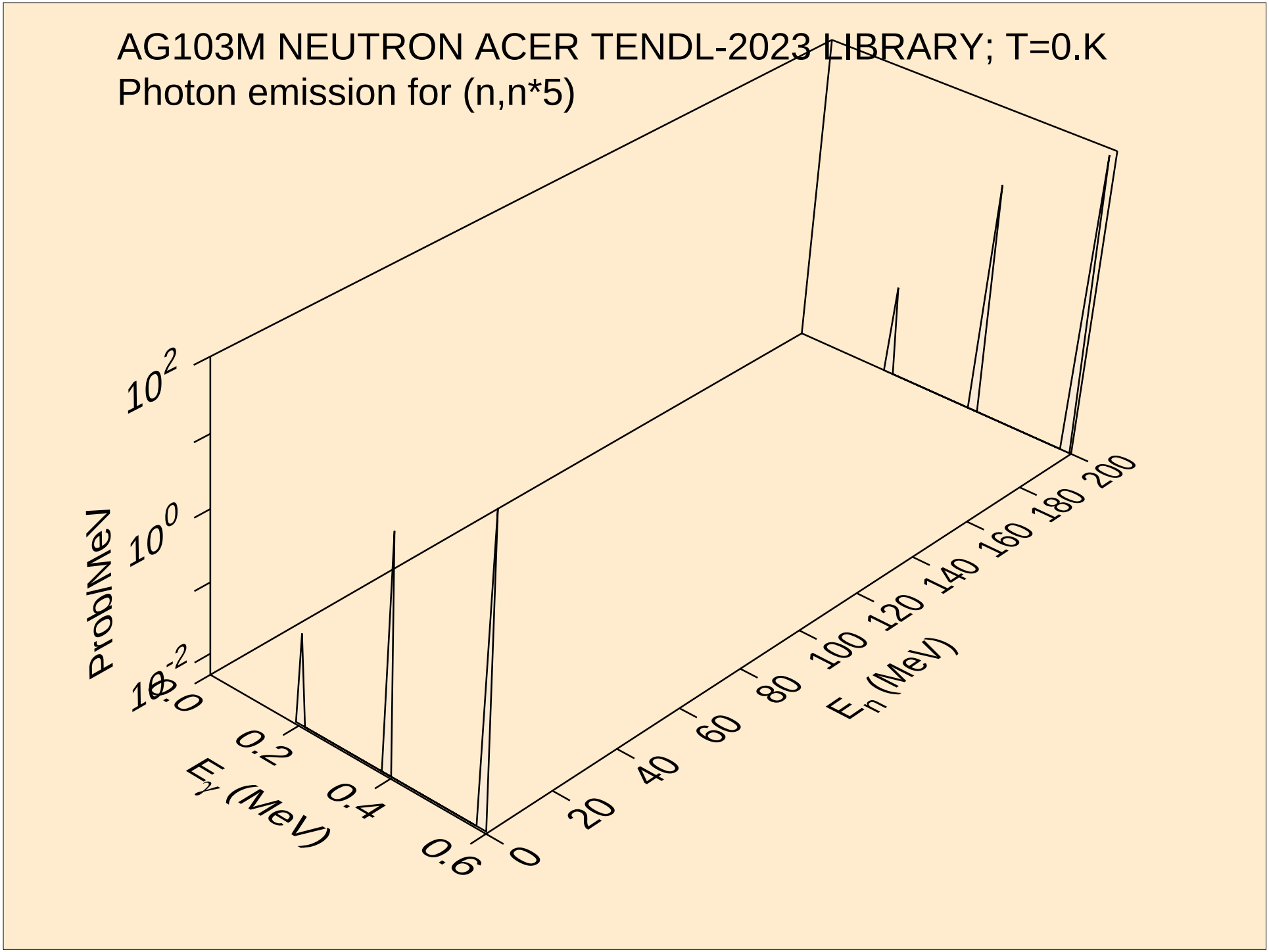

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n2p)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
10
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

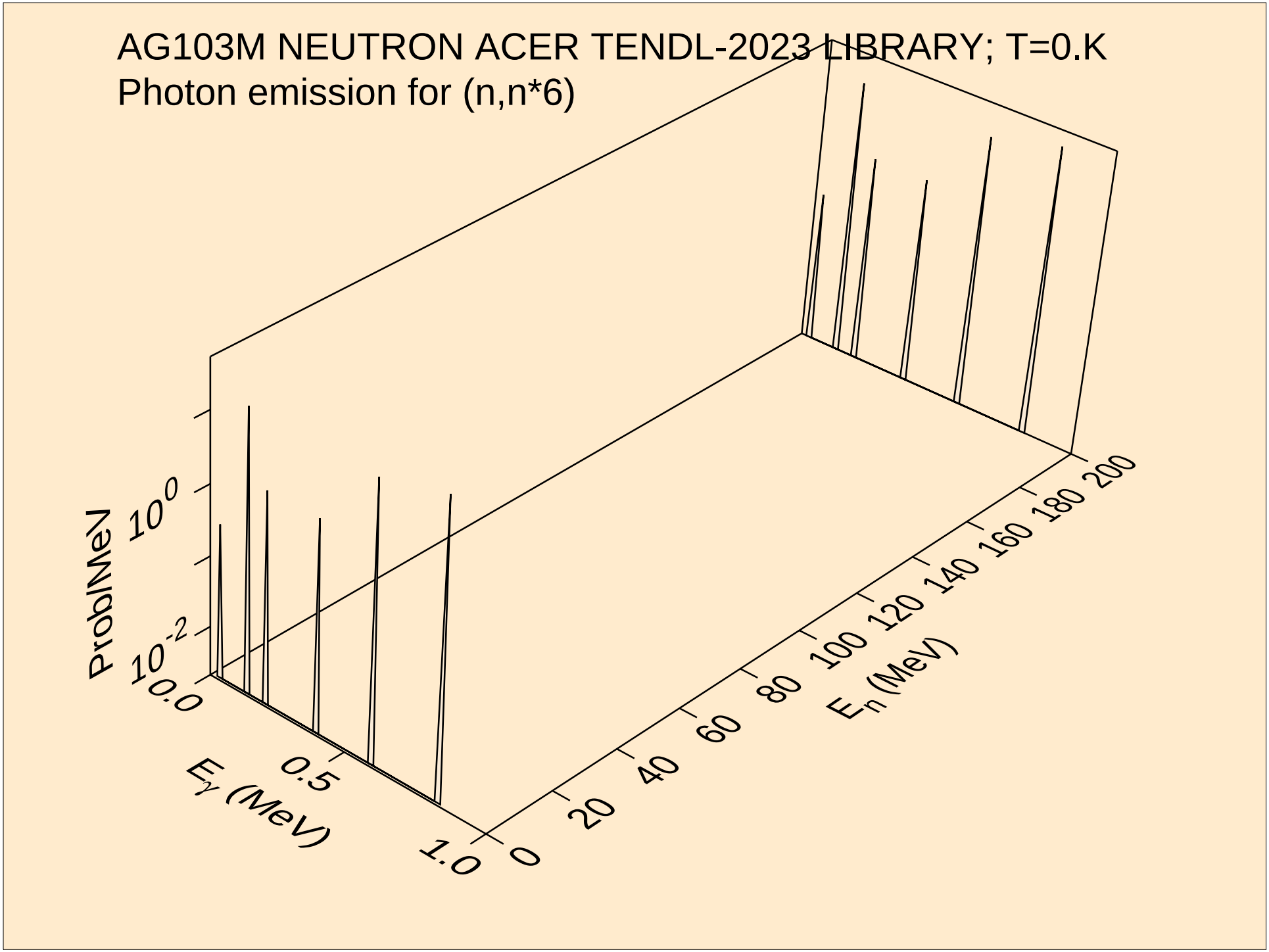

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,npa)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
E_γ (MeV)
2
4
5
10
15
20
25
30
E_n (MeV)

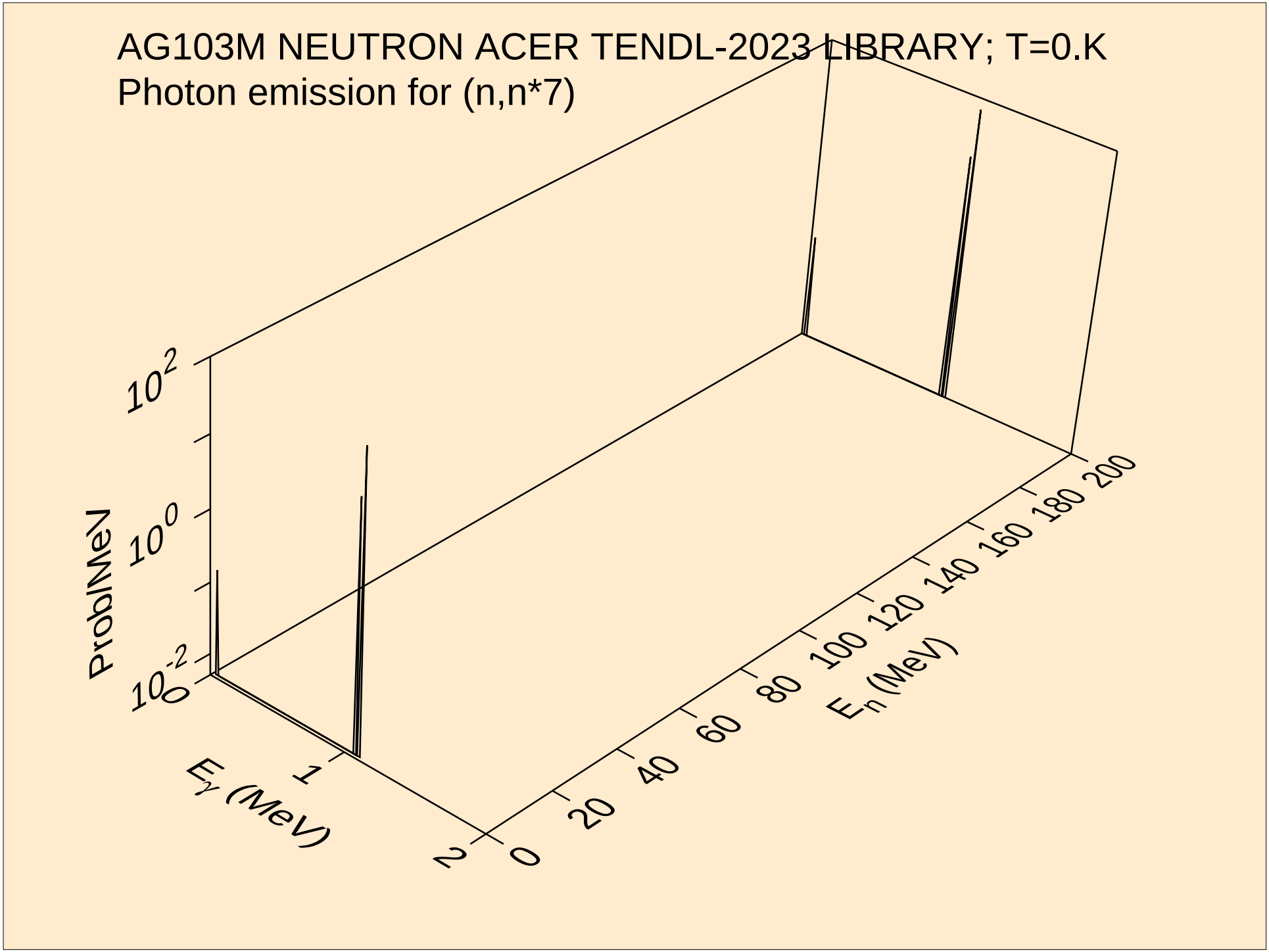

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*1)
Prob/MeV
10^2
10^0
0
20
E_γ (MeV)
40
*10 -3
0
50
100
150
200
E_n (MeV)

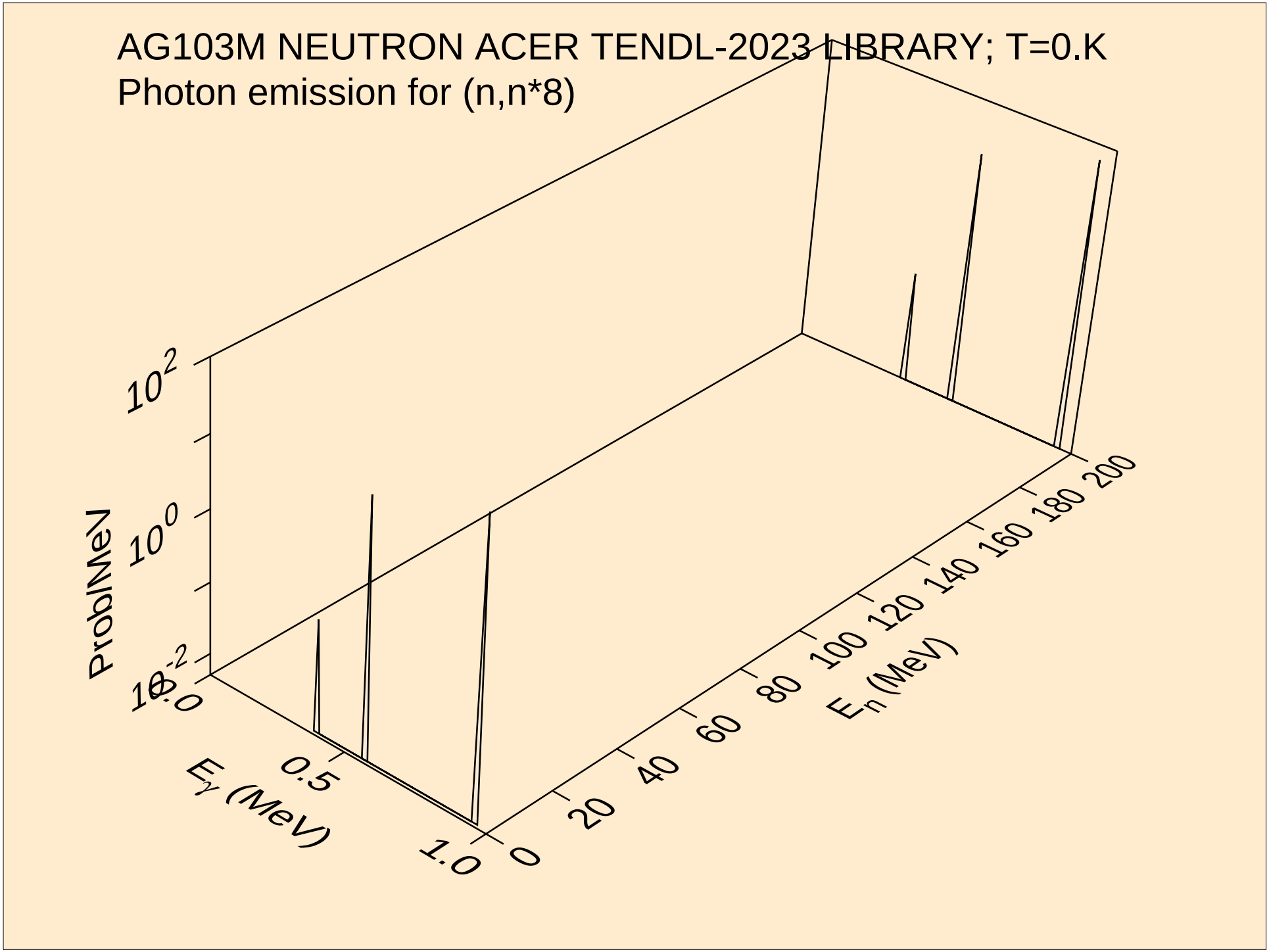

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*3)
Prob/MeV
10^2
10^0
300
350
400
450
E_γ (MeV)
*10 -3
0
50
100
150
200
E_n (MeV)

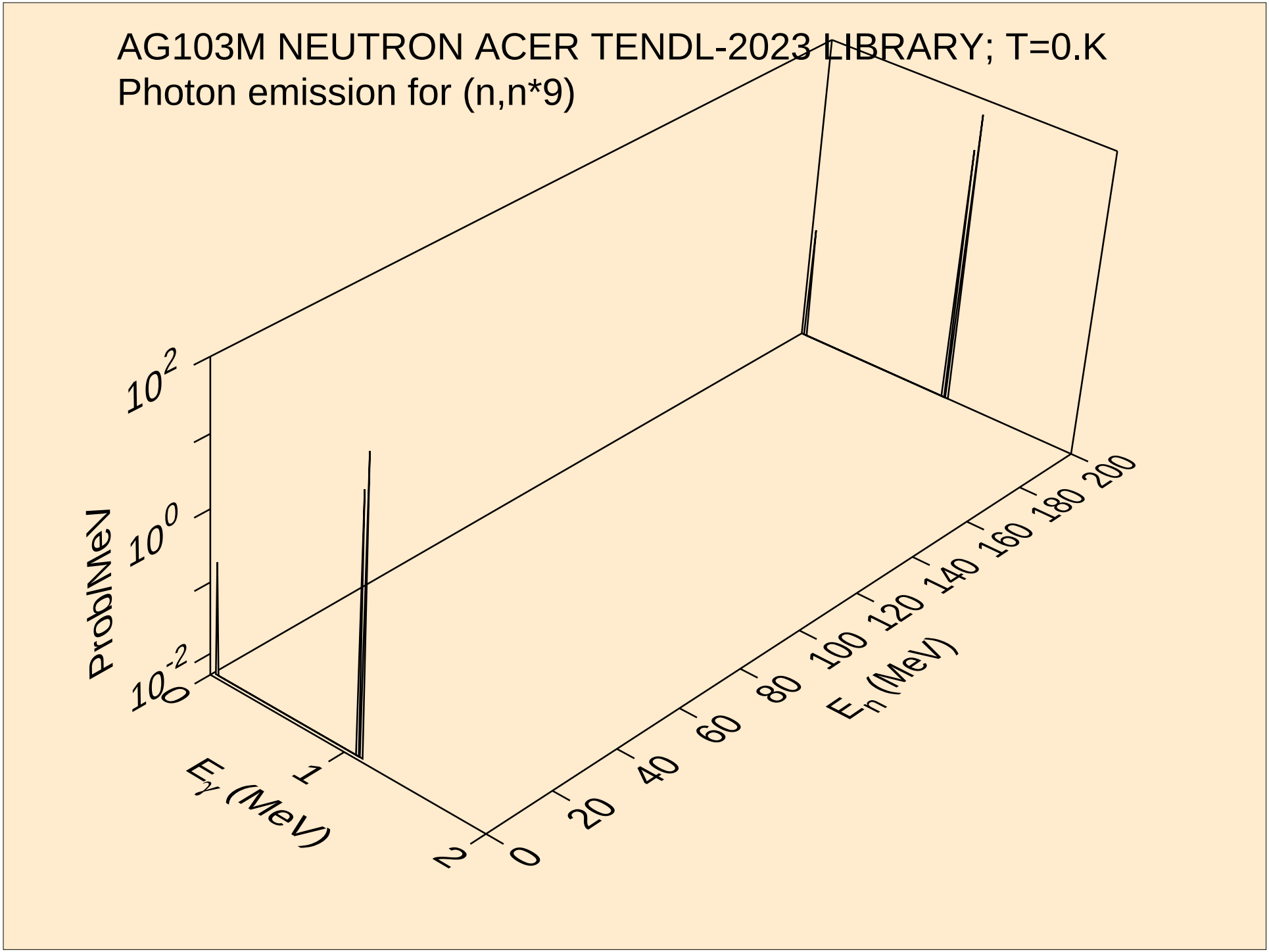

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*4)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

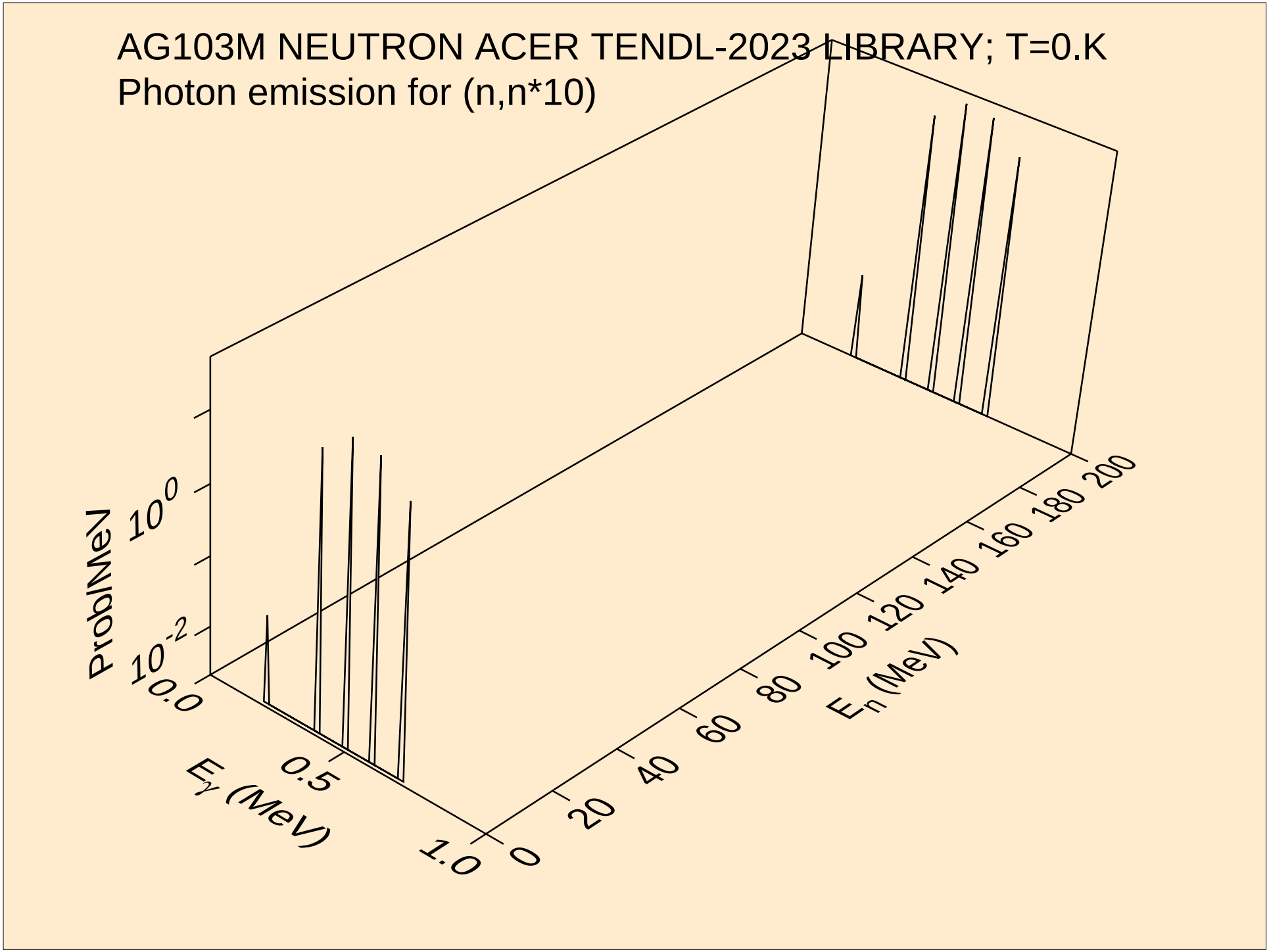

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*5)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0.0
0.2
0.4
0.6
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

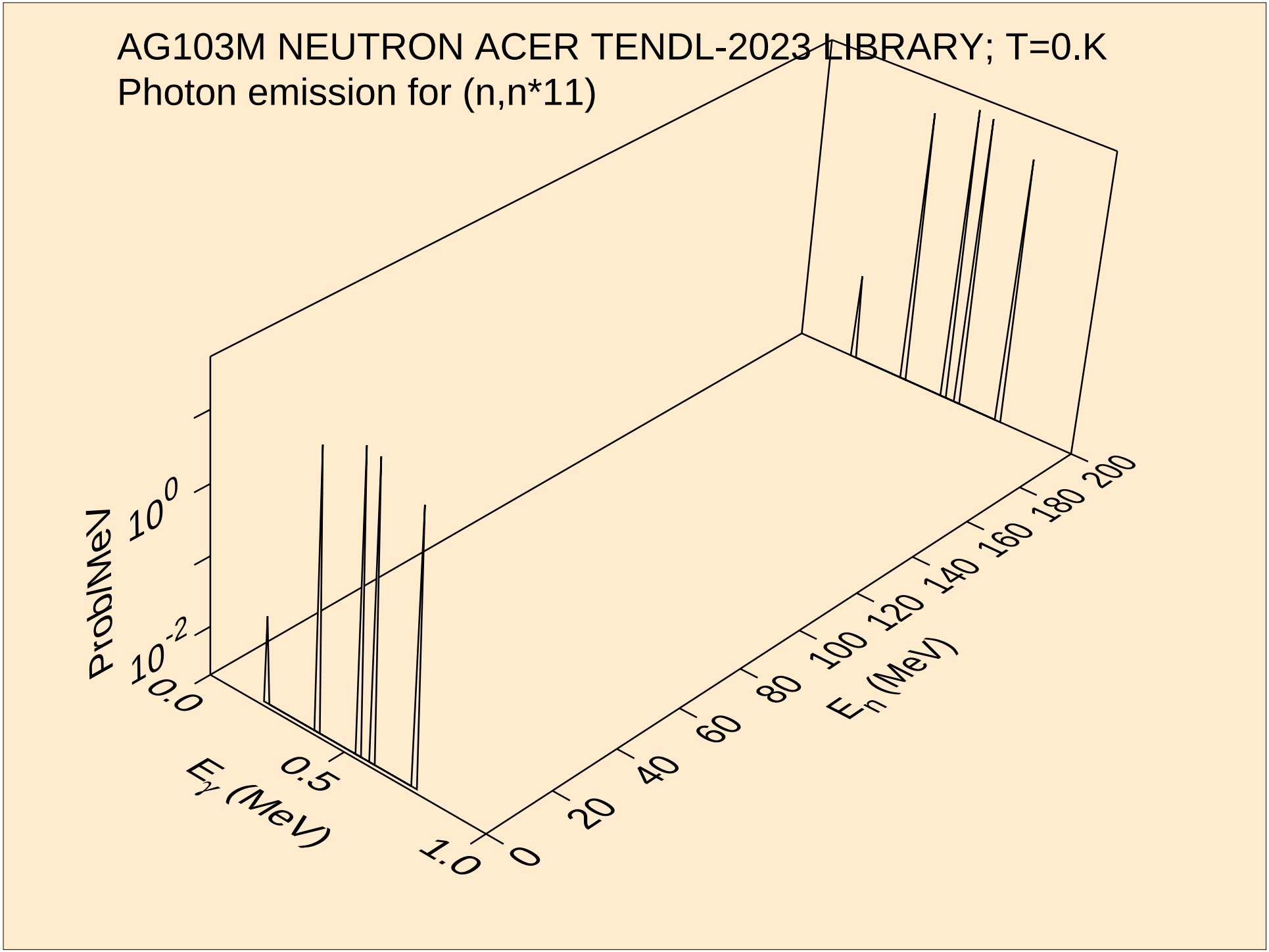

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*6)
Prob/MeV
10^0
10^-2
0.0
0.5
1.0
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

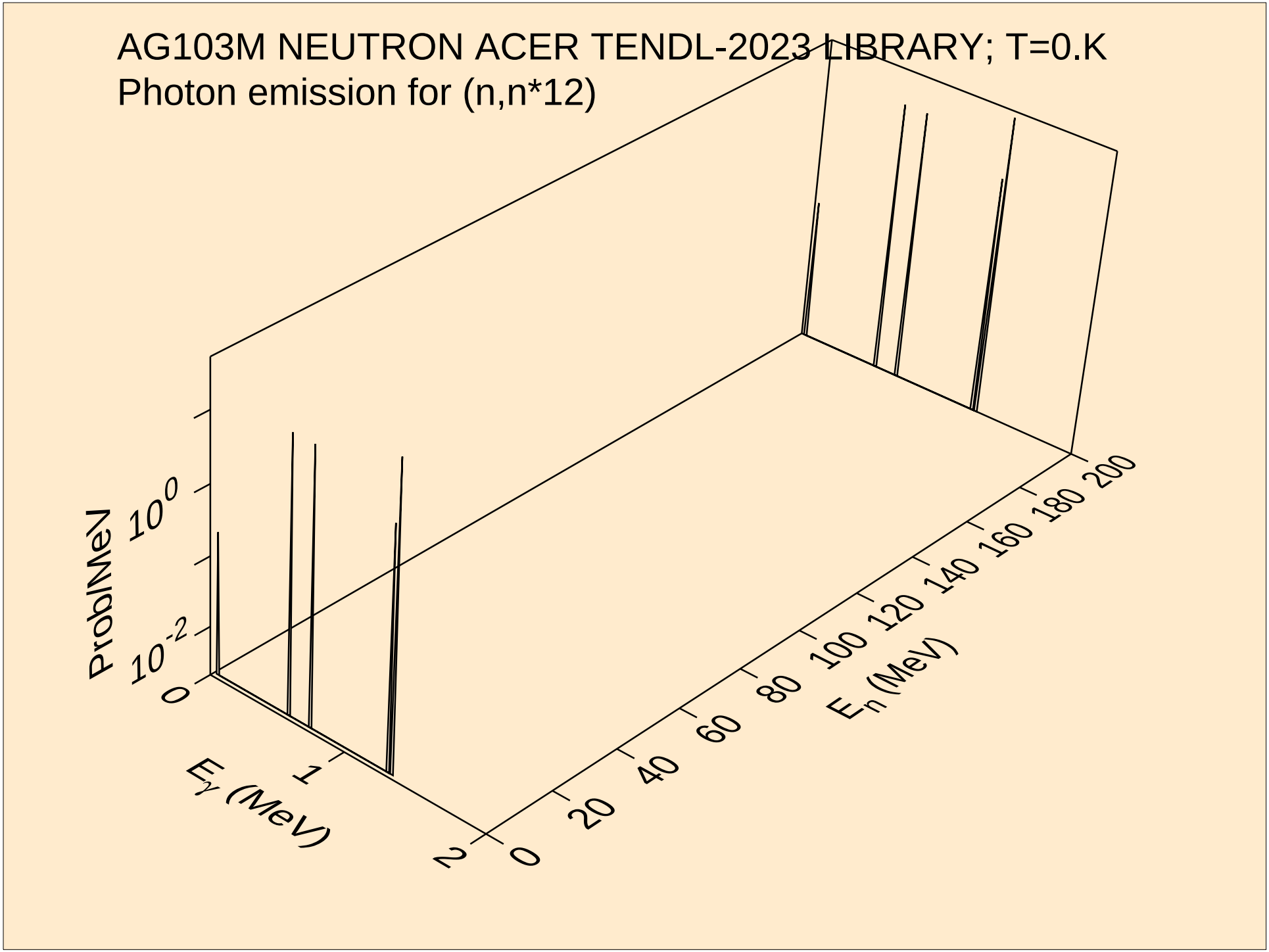

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*7)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
1
2
E_n (MeV)
0
20
40
60
80
100
120
140
160
180
200

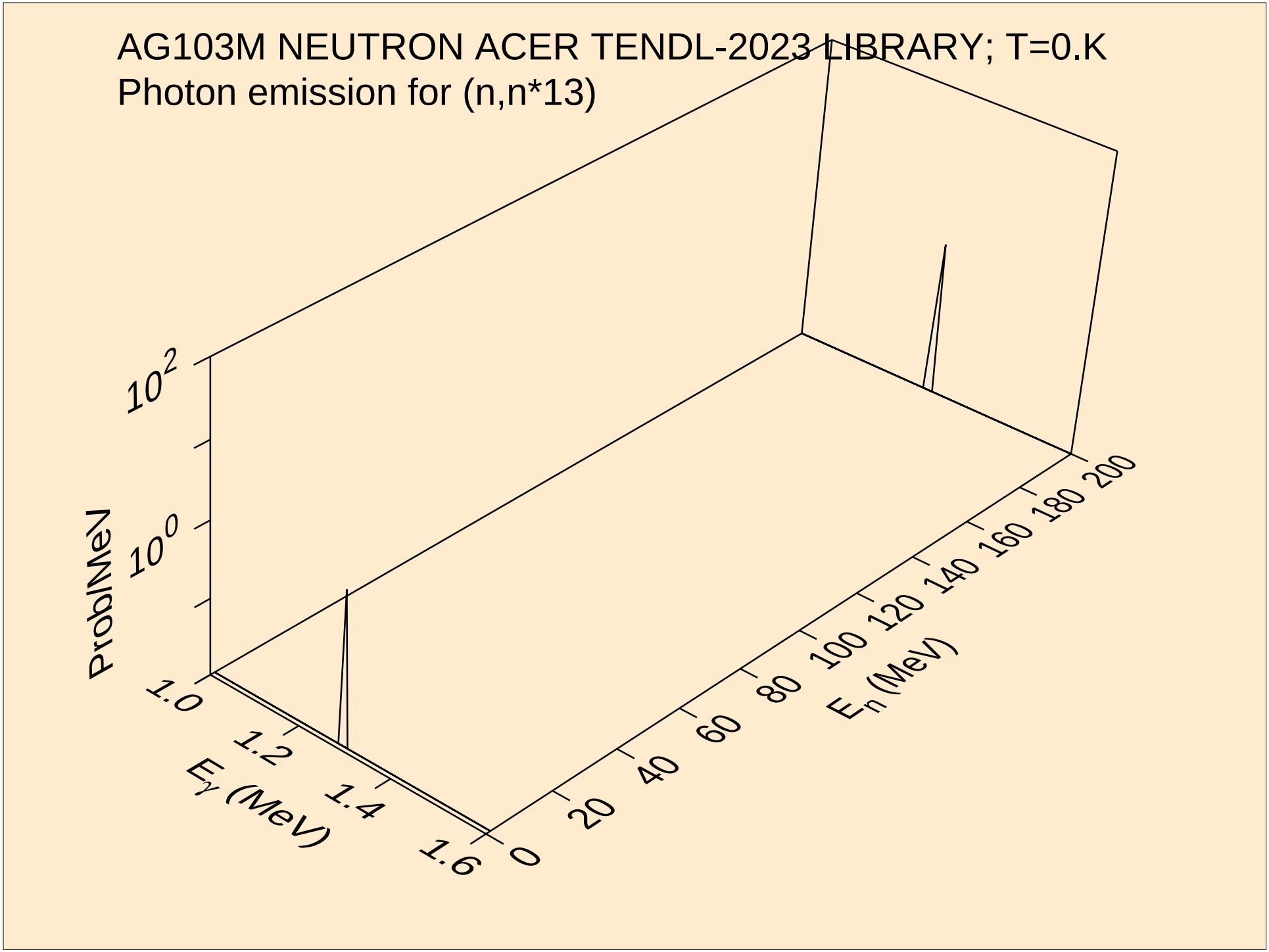

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*8)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

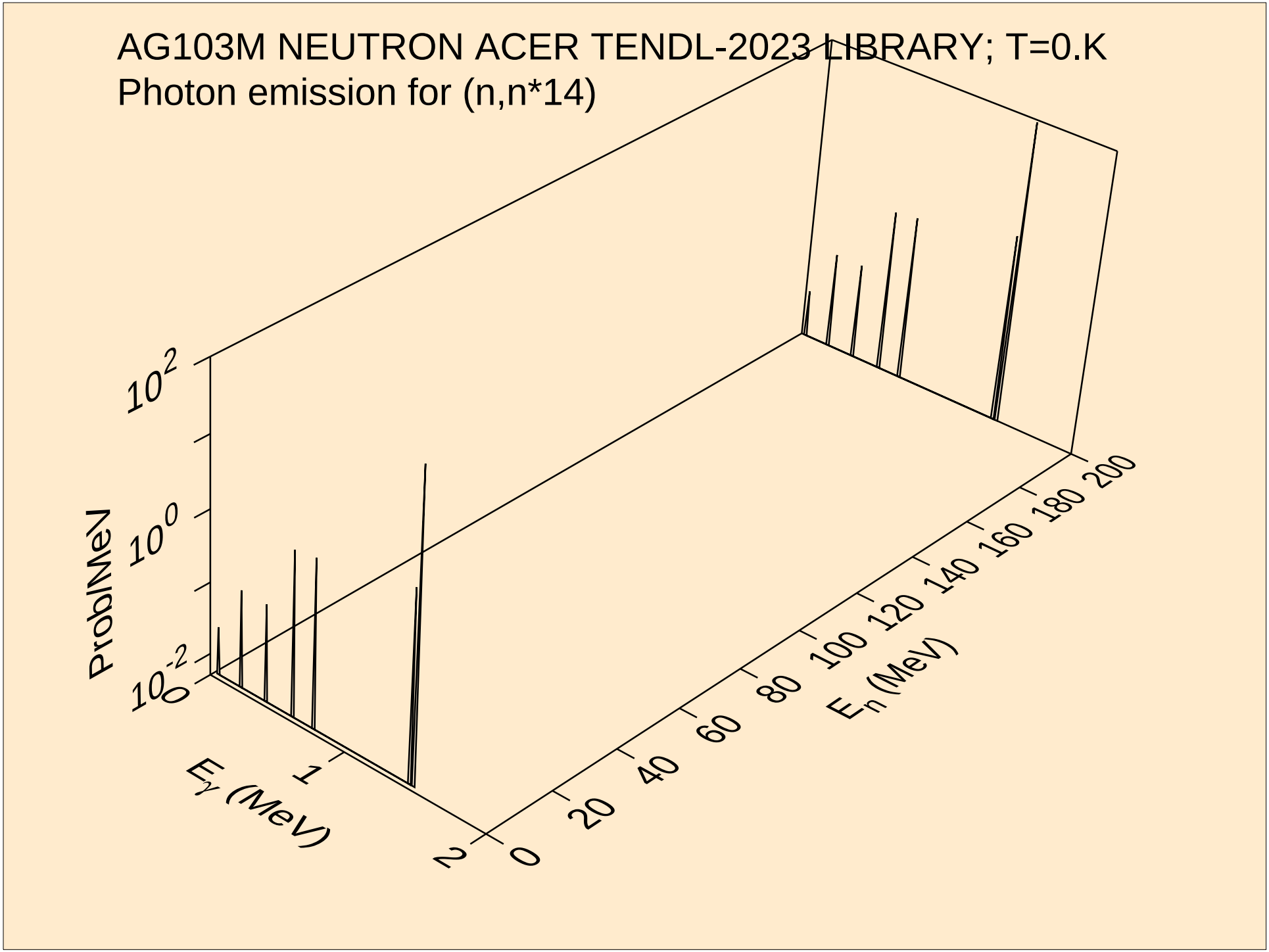

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*9)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
1
2
E_n (MeV)
0
20
40
60
80
100
120
140
160
180
200

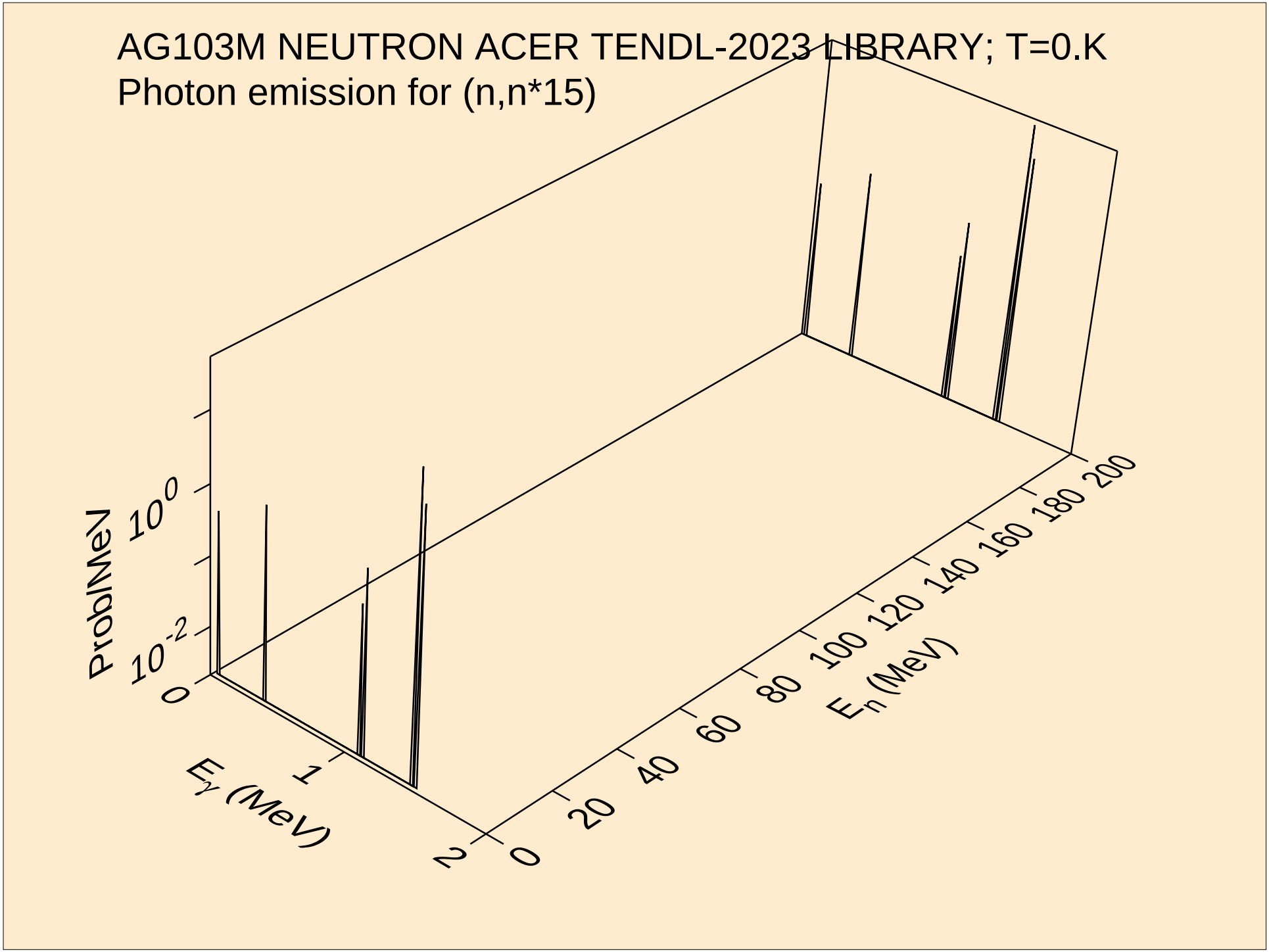

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*10)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

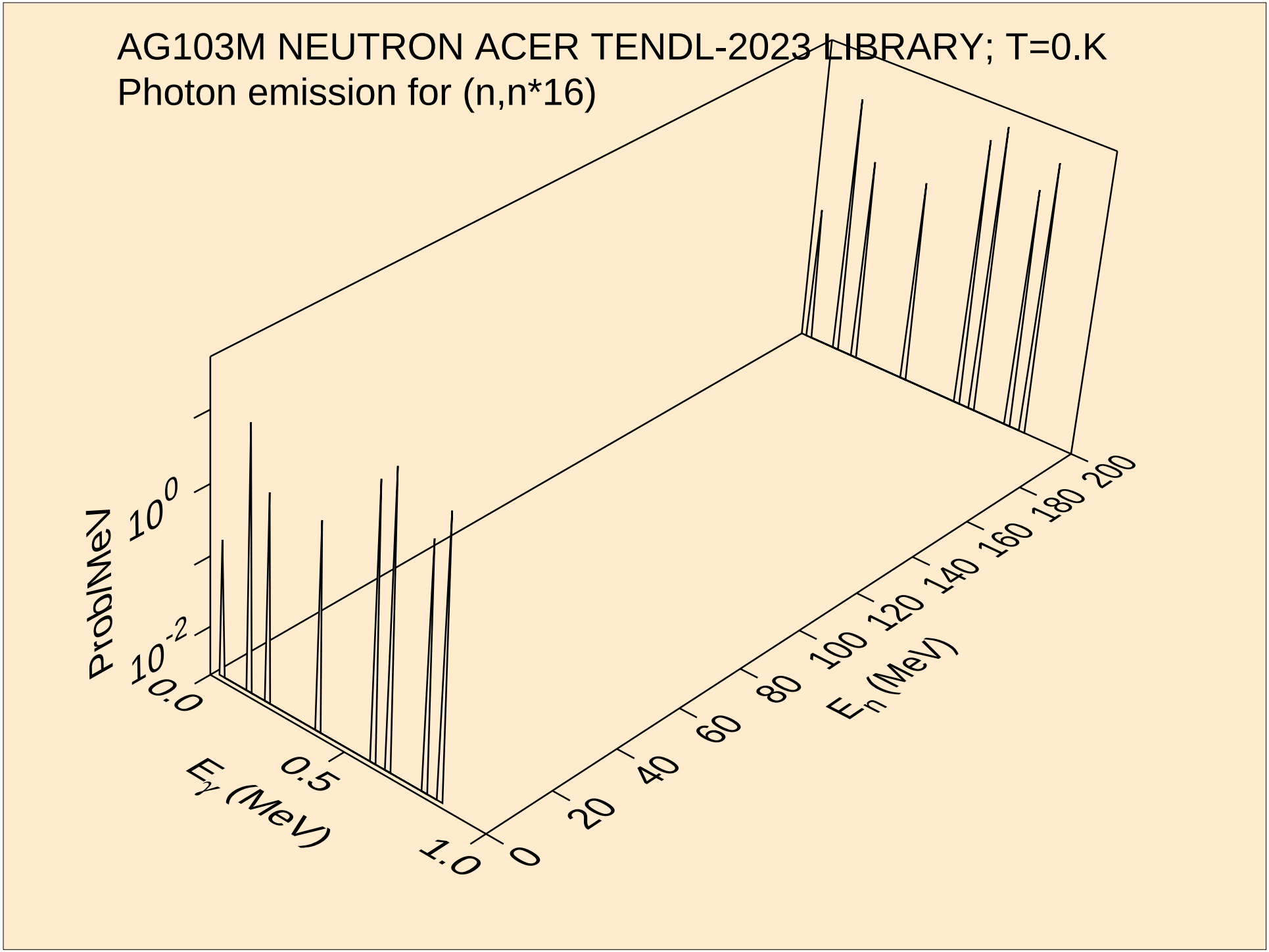

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*11)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

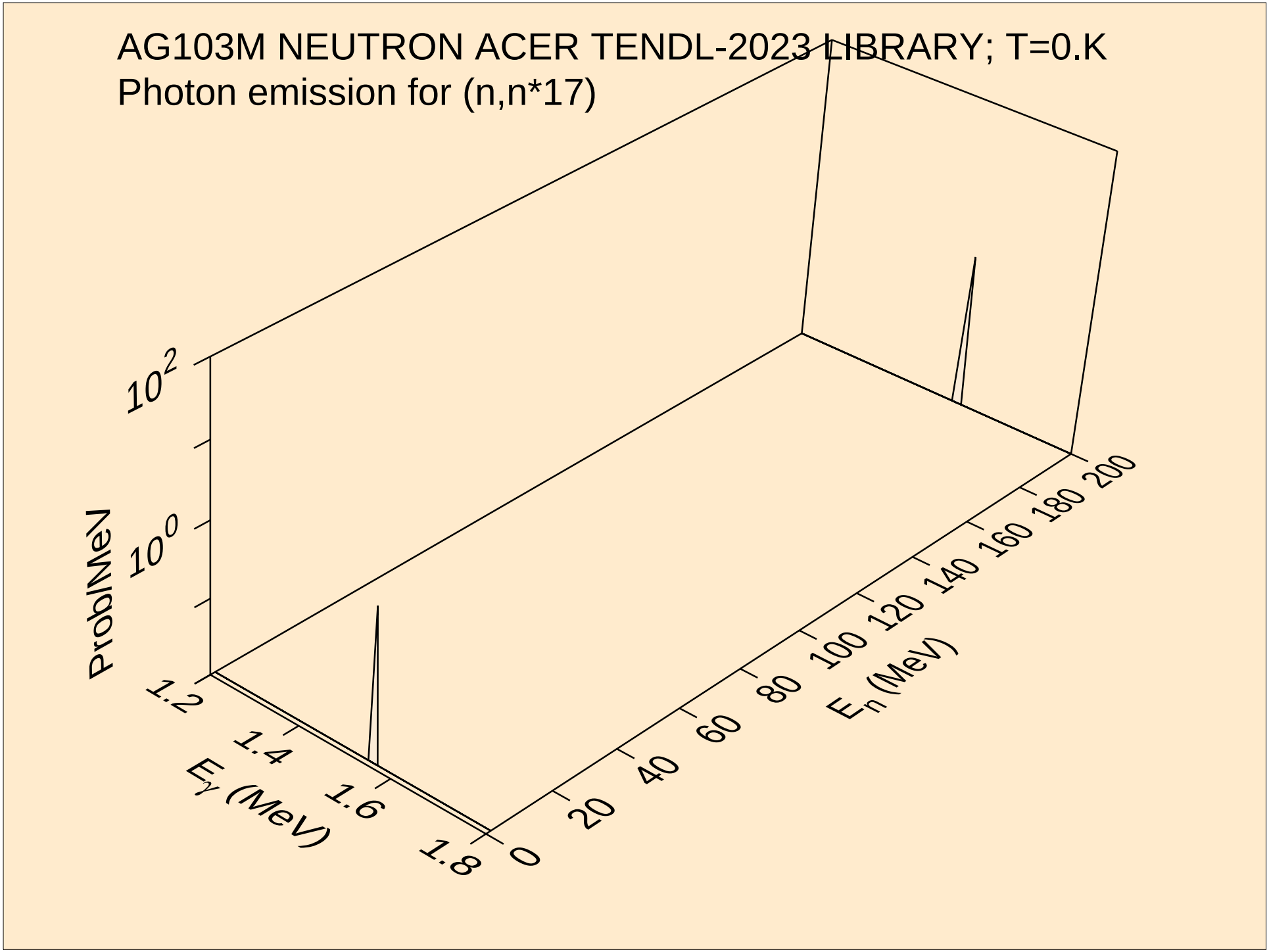

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*12)
Prob/MeV
10^0
10^-2
0
1
2
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

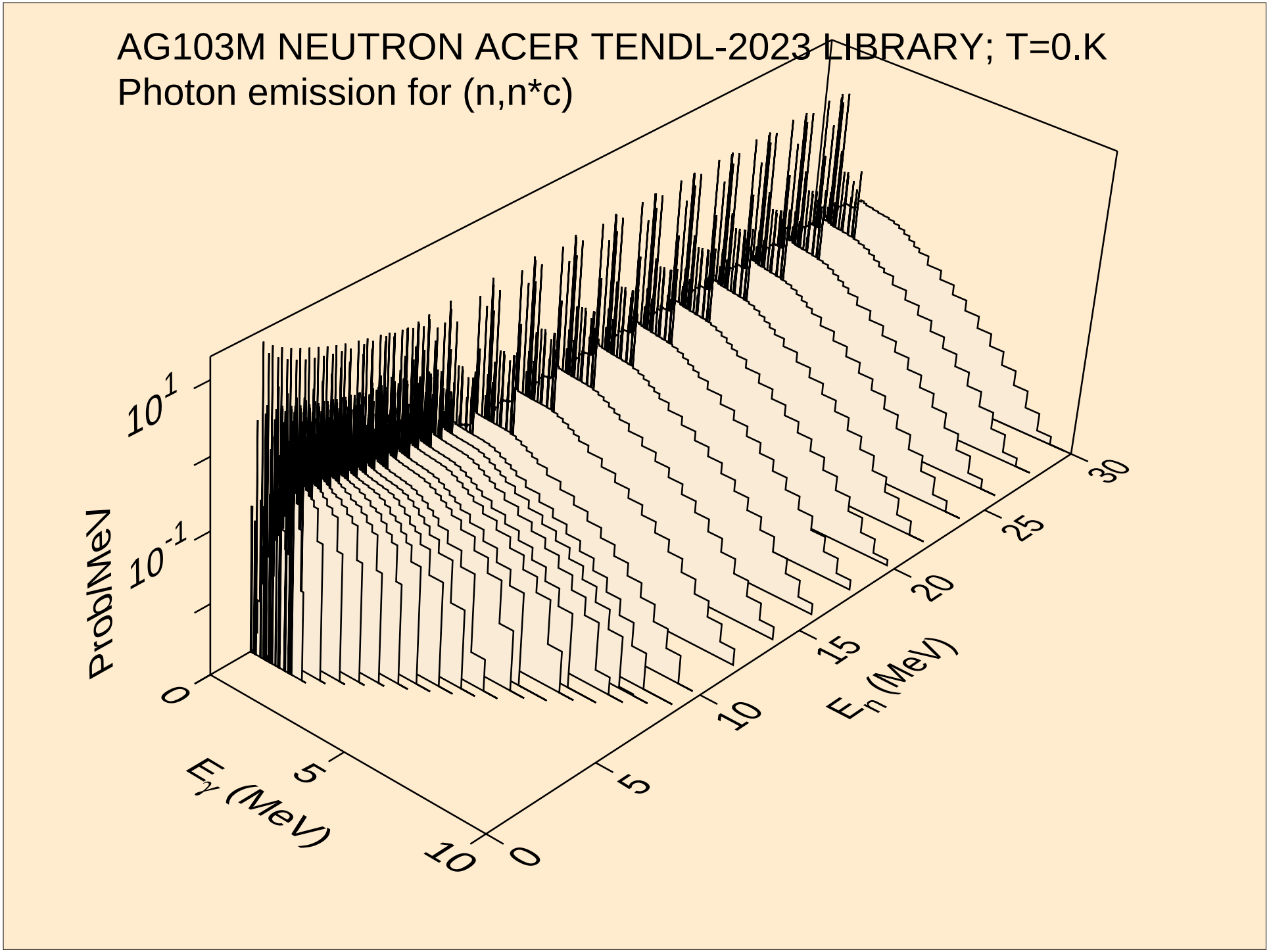

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*13)
Prob/MeV
10^2
10^0
1.0
1.2
1.4
1.6
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

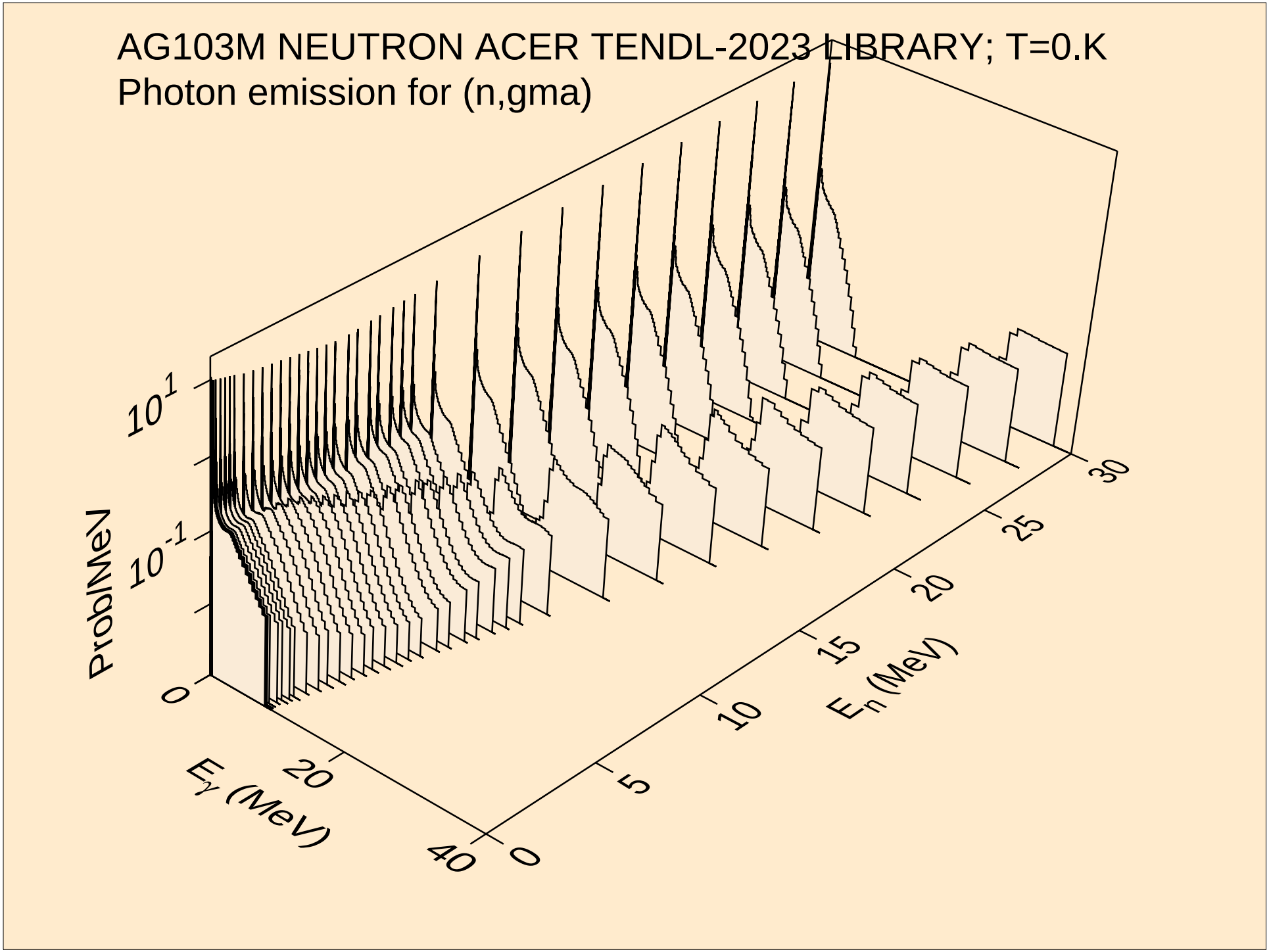

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*14)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
1
2
E_n (MeV)
0
20
40
60
80
100
120
140
160
180
200

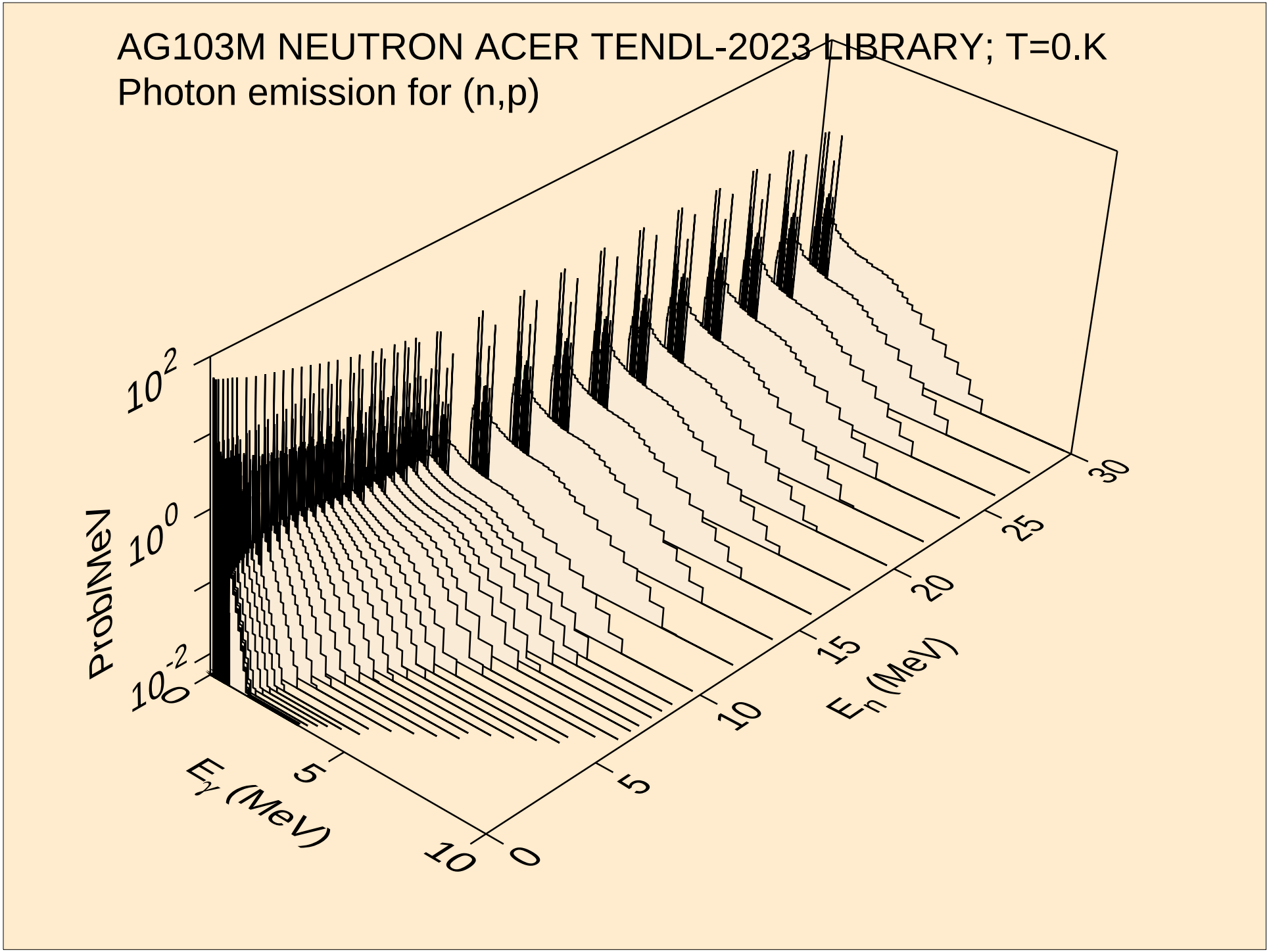

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*15)
Prob/MeV
10^0
10^-2
0
1
2
Eγ (MeV)
0
20
40
60
80
100
120
140
160
180
200
En (MeV)

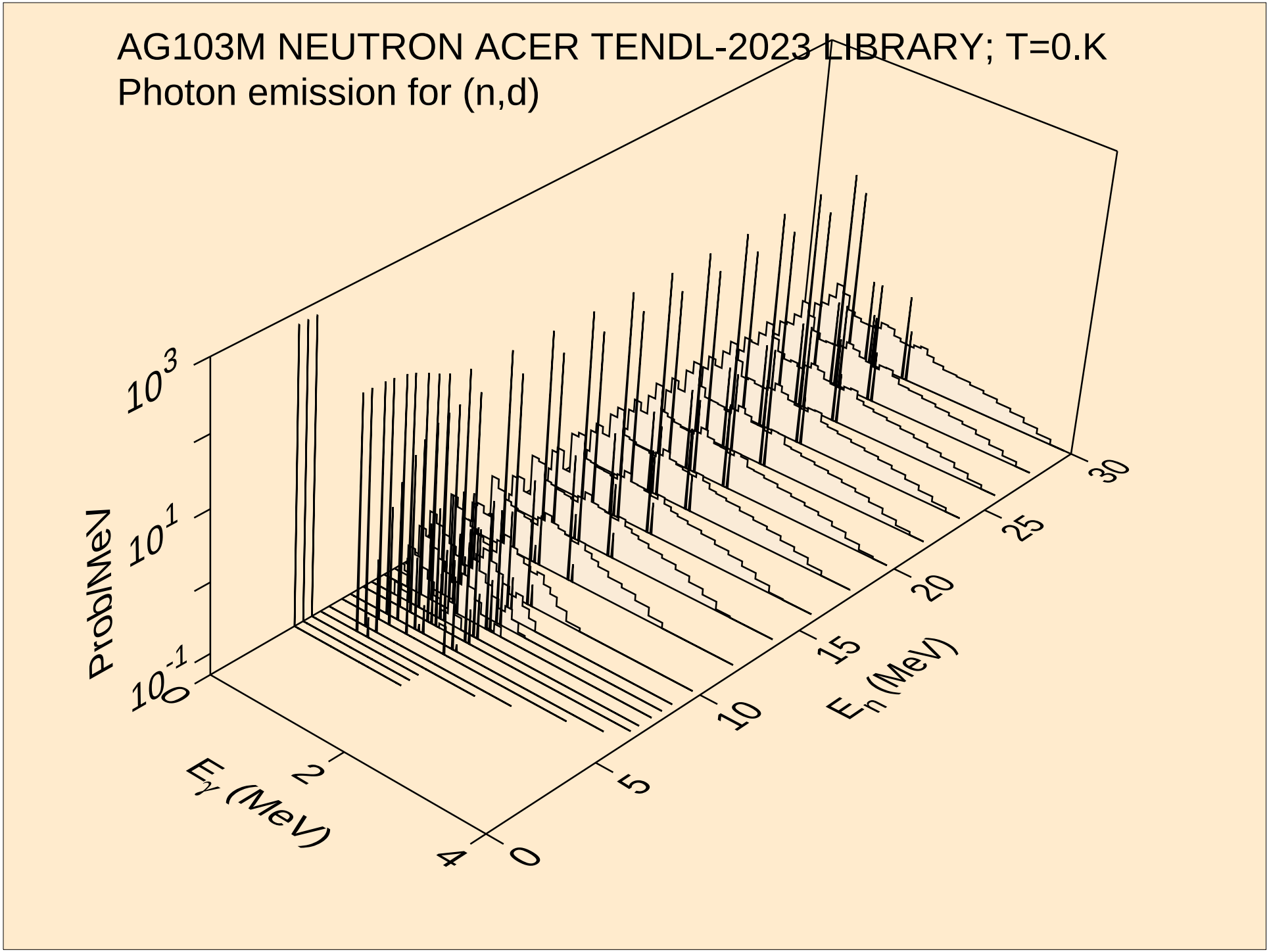

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*16)
Prob/MeV
10^{0}
10^{-2}
0.0
0.5
1.0
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

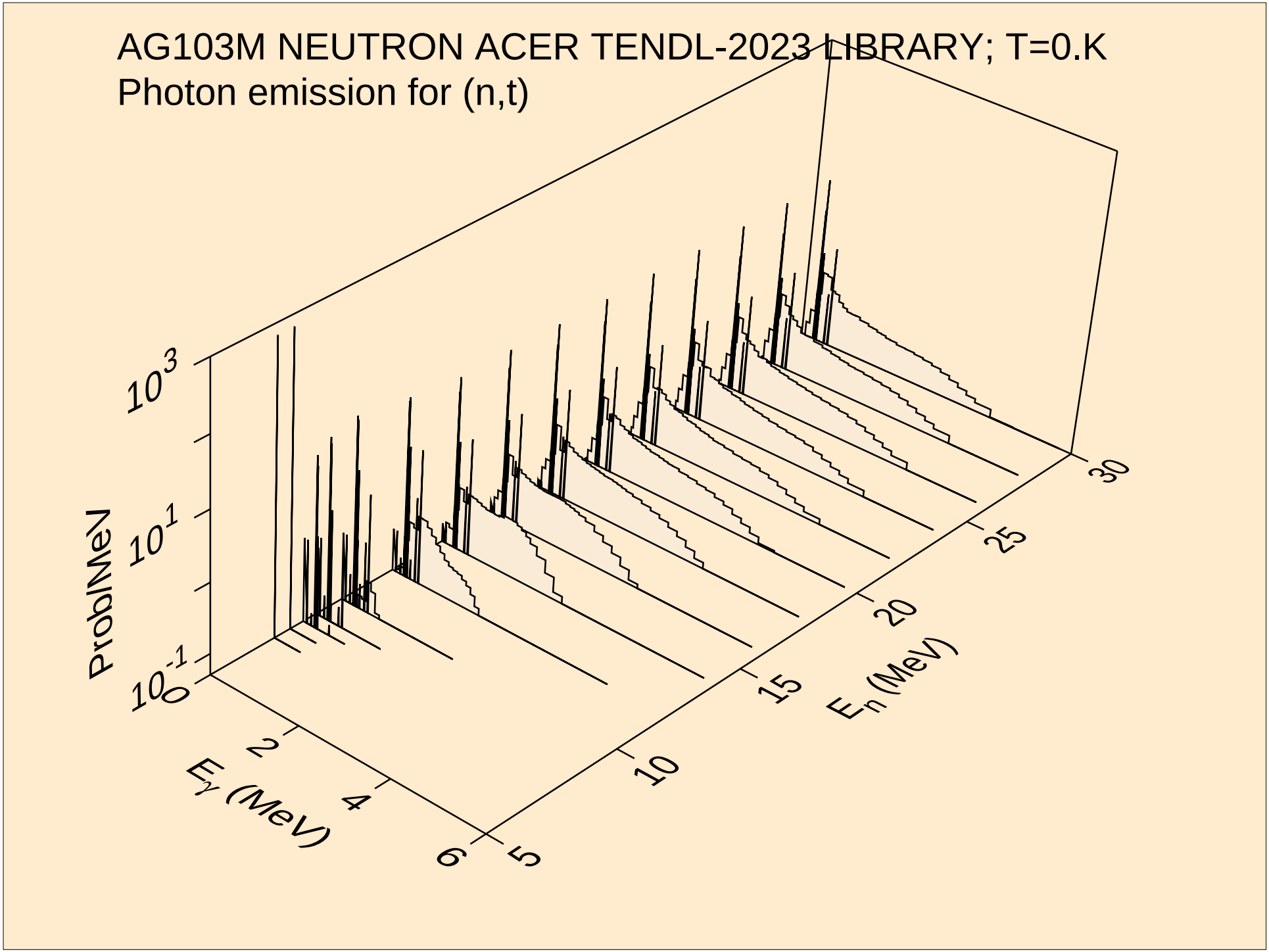

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*17)
Prob/MeV
10^2
10^0
1.2
1.4
1.6
1.8
E_γ (MeV)
0
20
40
60
80
100
120
140
160
180
200
E_n (MeV)

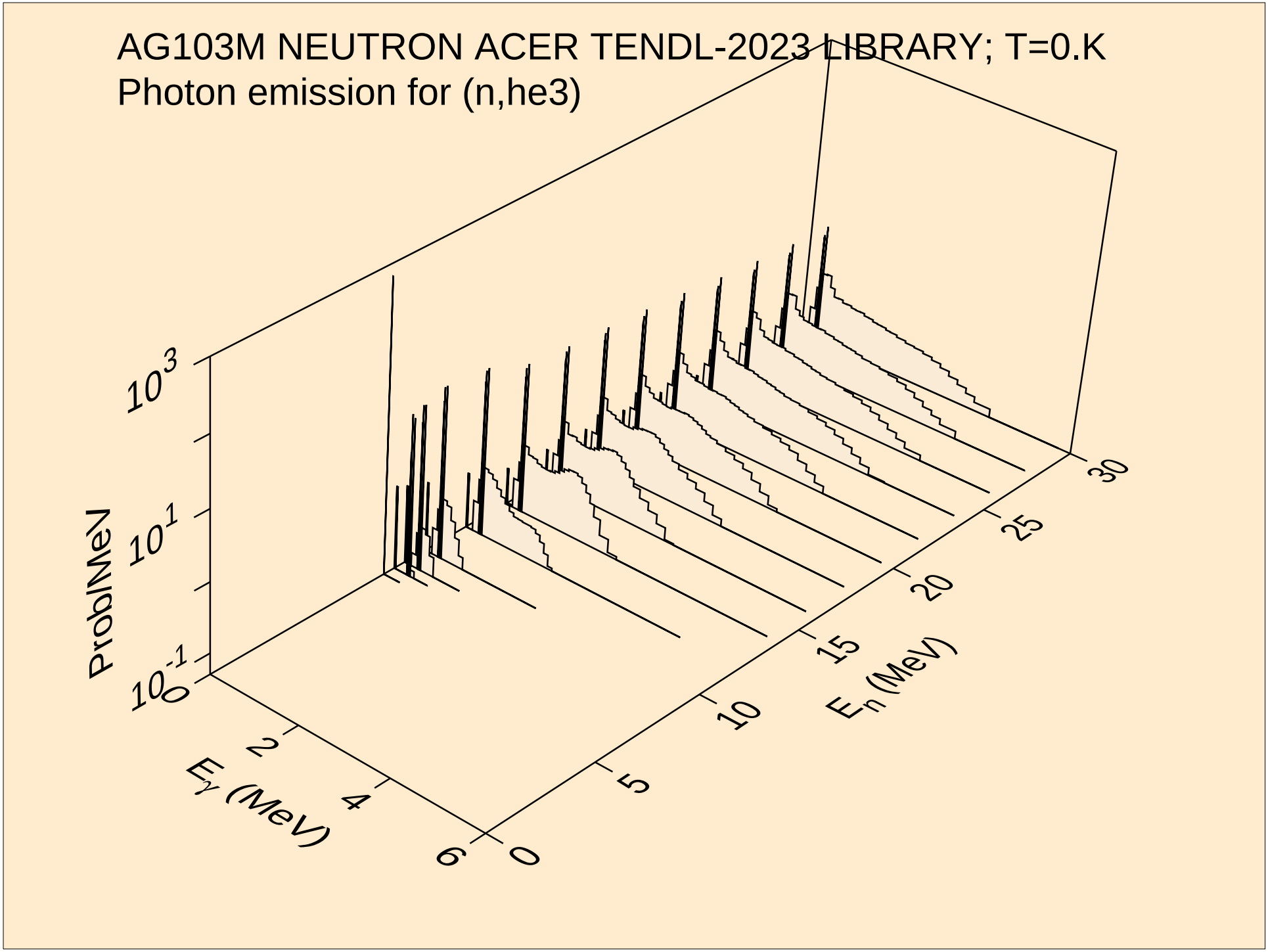

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*c)
Prob/MeV
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

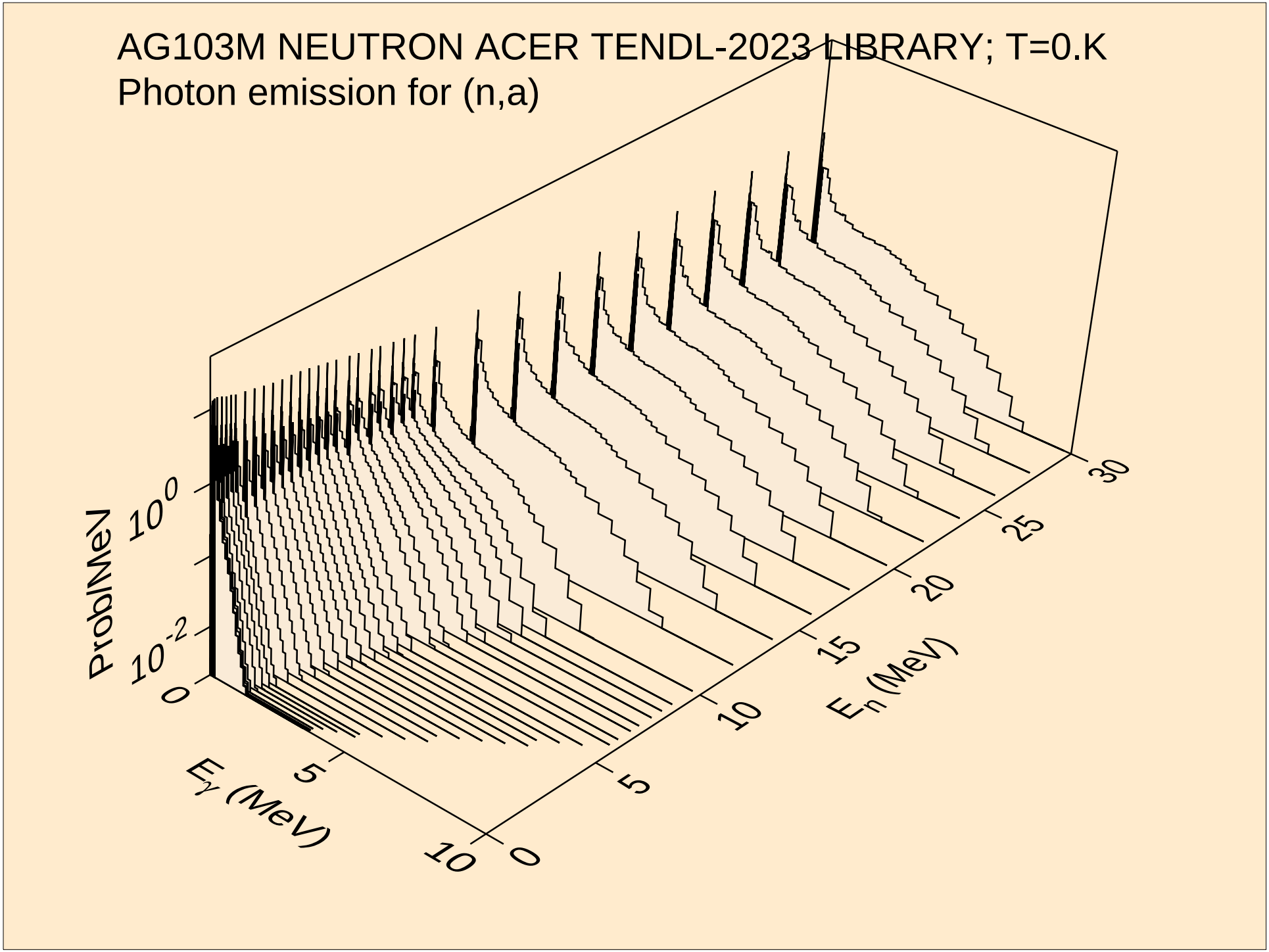

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,gma)
Prob/MeV
10^1
10^-1
0
20
40
Eγ (MeV)
0
5
10
15
20
25
30
En (MeV)

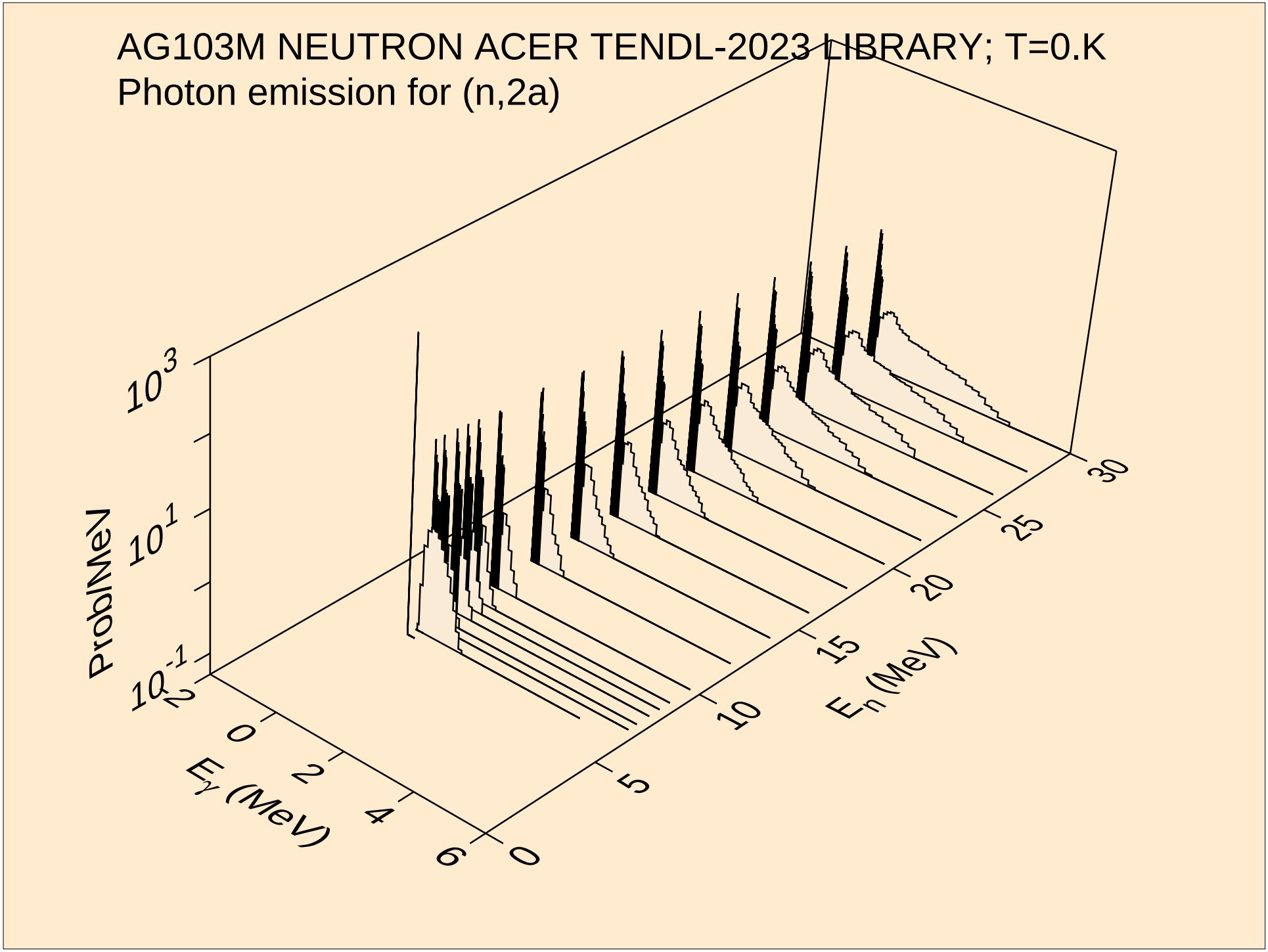

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

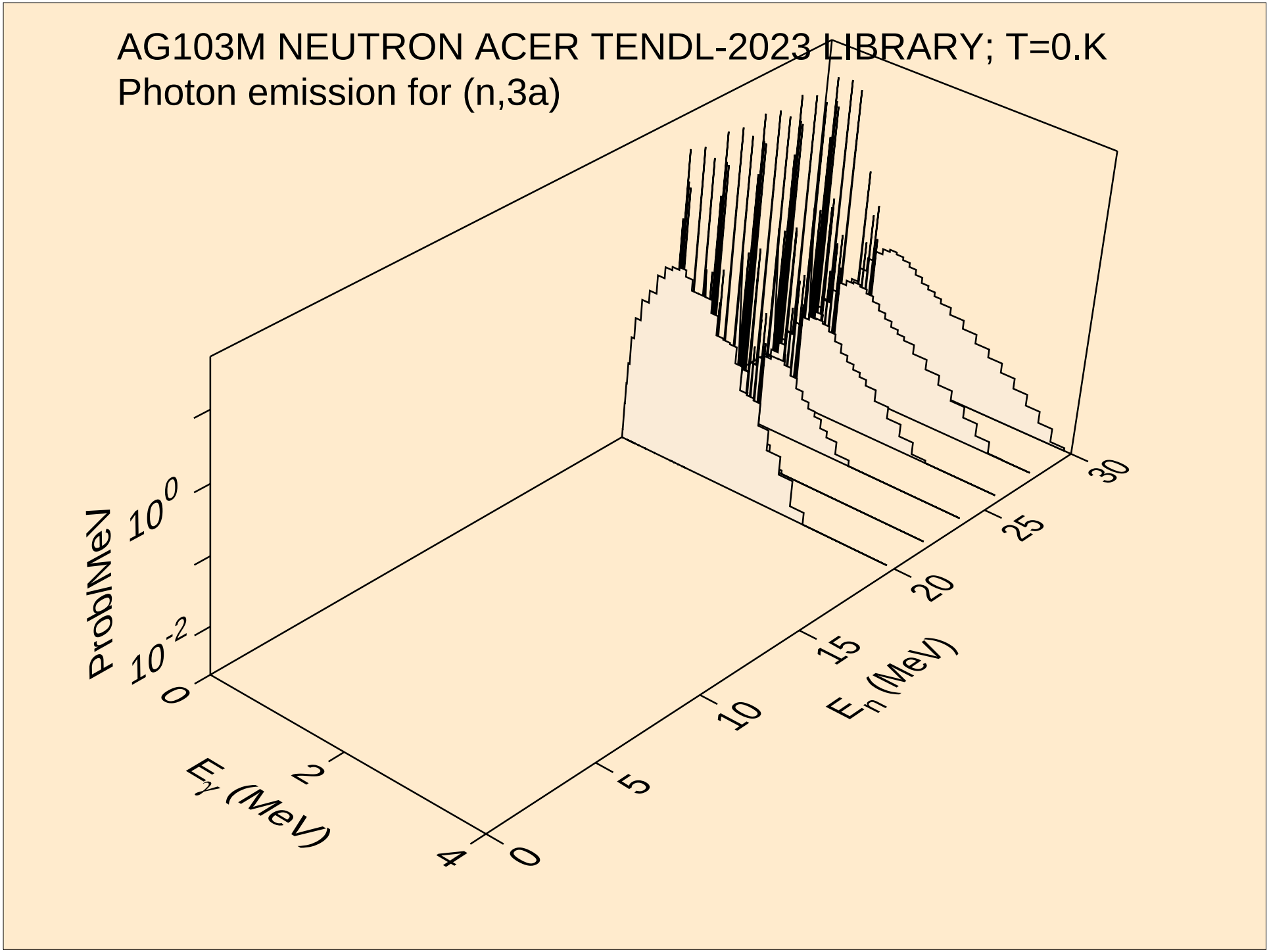

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

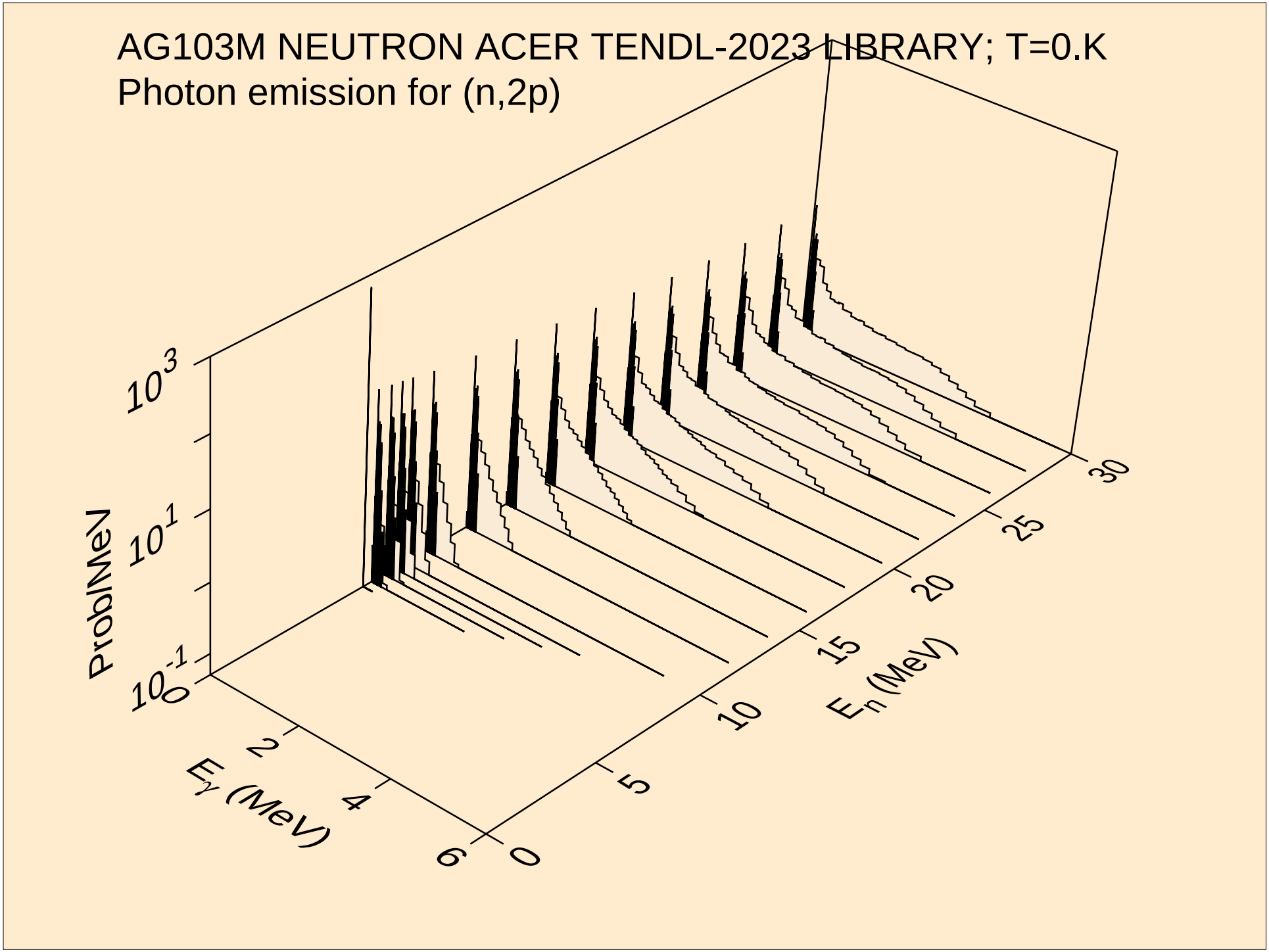

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

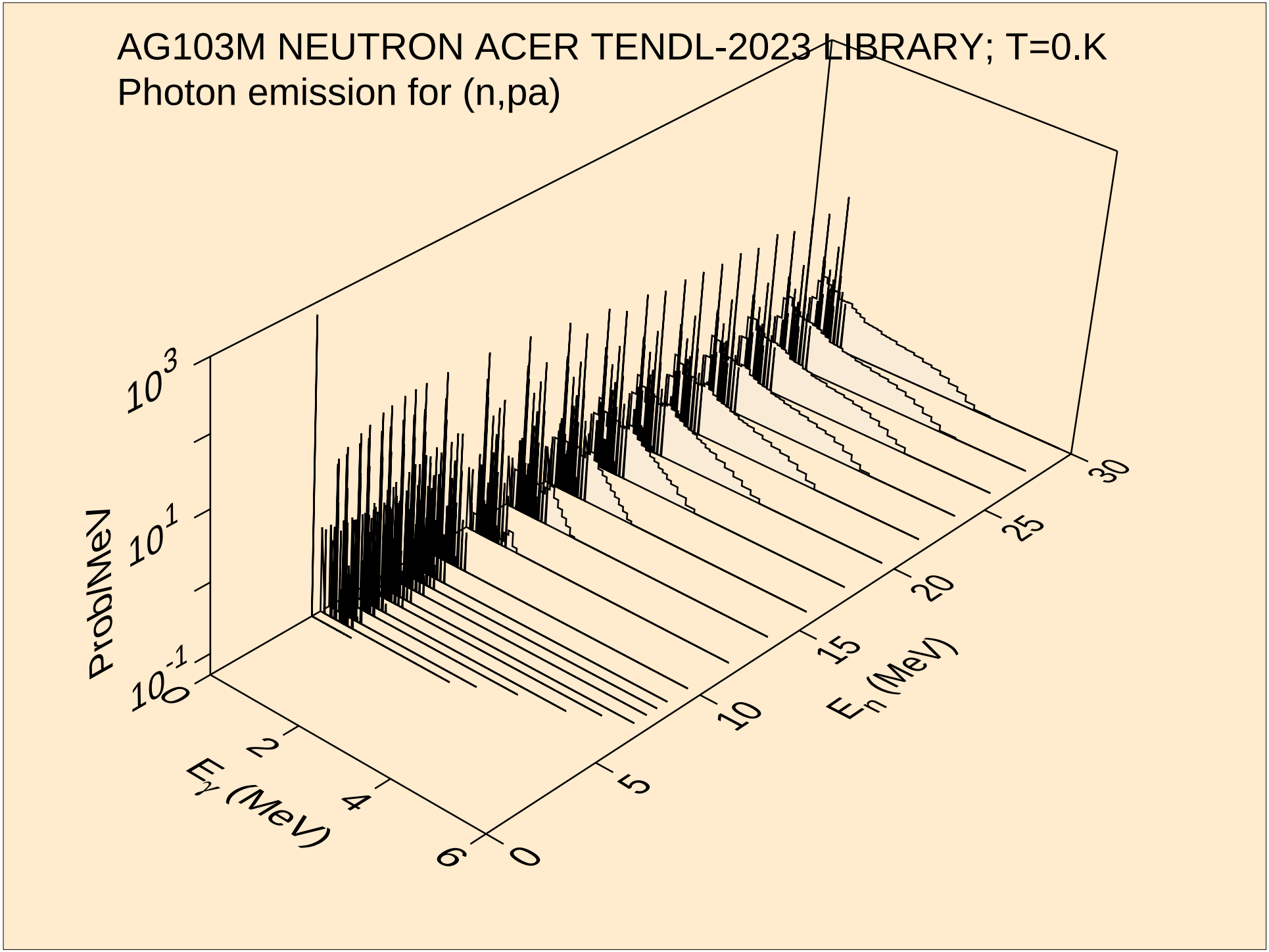

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,he3)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

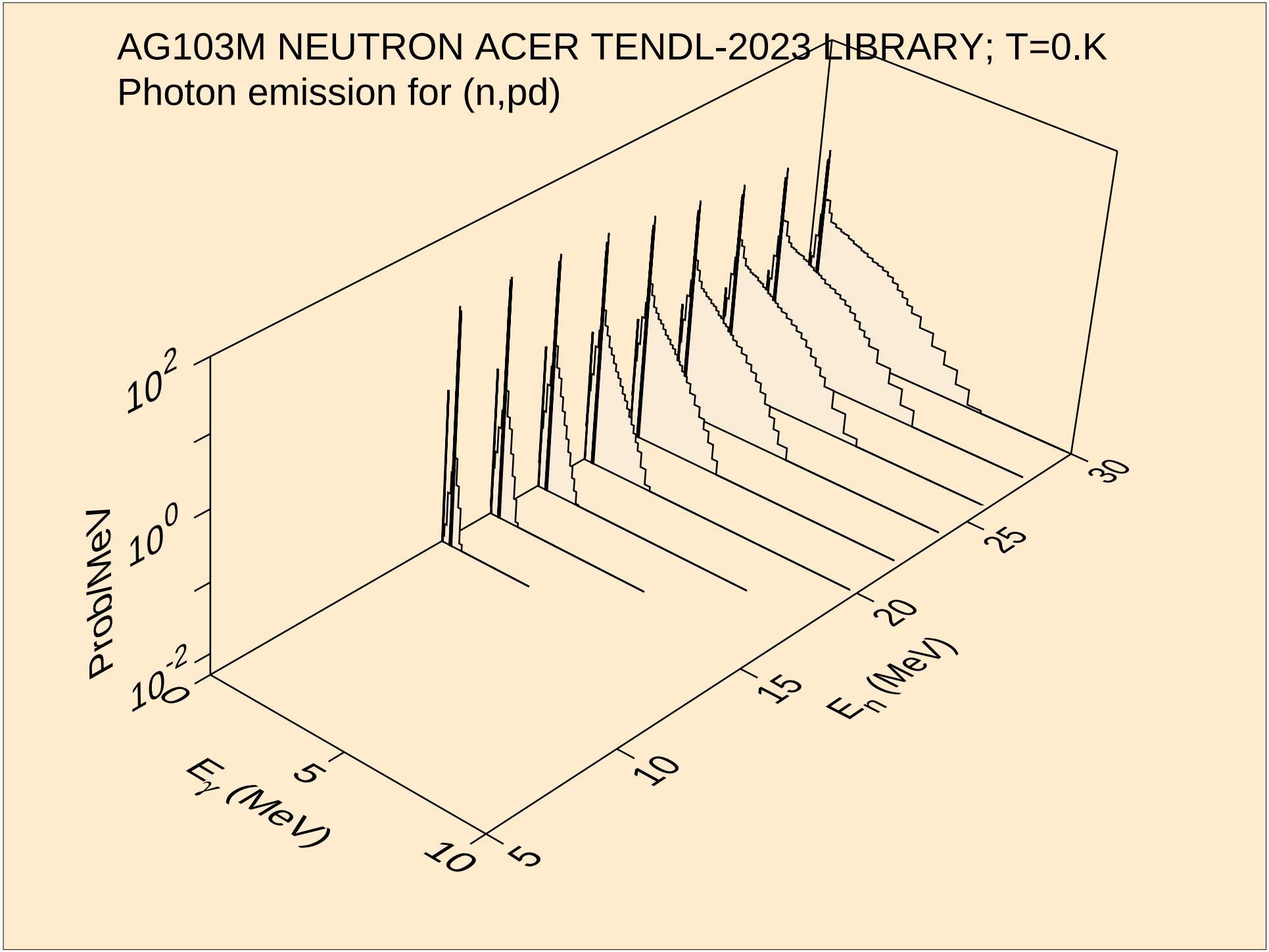

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,a)
Prob/MeV
10^{0}
10^{-2}
0
E_γ (MeV)
5
10
0
5
10
15
20
25
30
E_n (MeV)

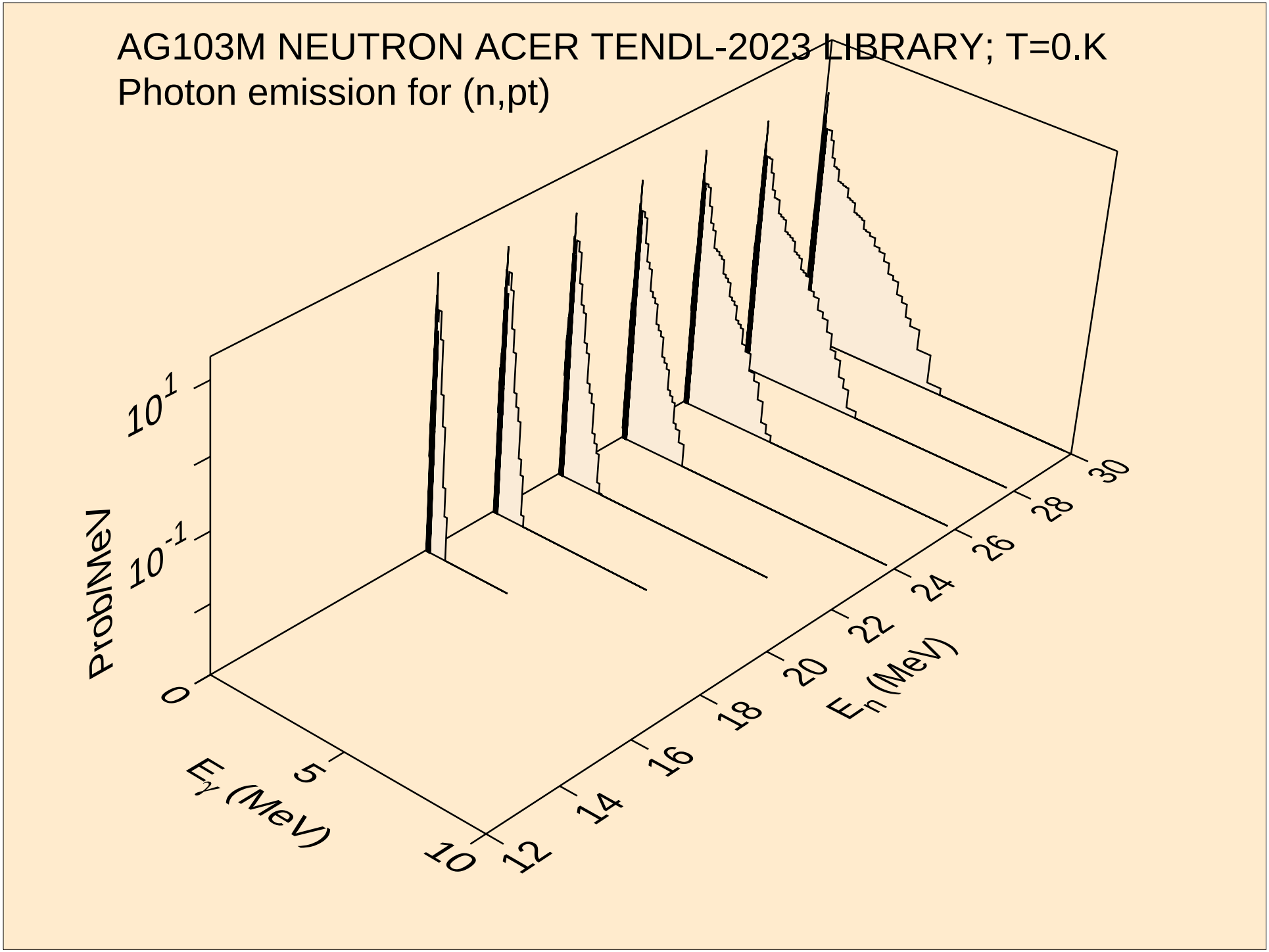

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2a)
Prob/MeV
10^{3}
10^{1}
10^{-1}
E_γ (MeV)
0
2
4
6
E_n (MeV)
0
5
10
15
20
25
30

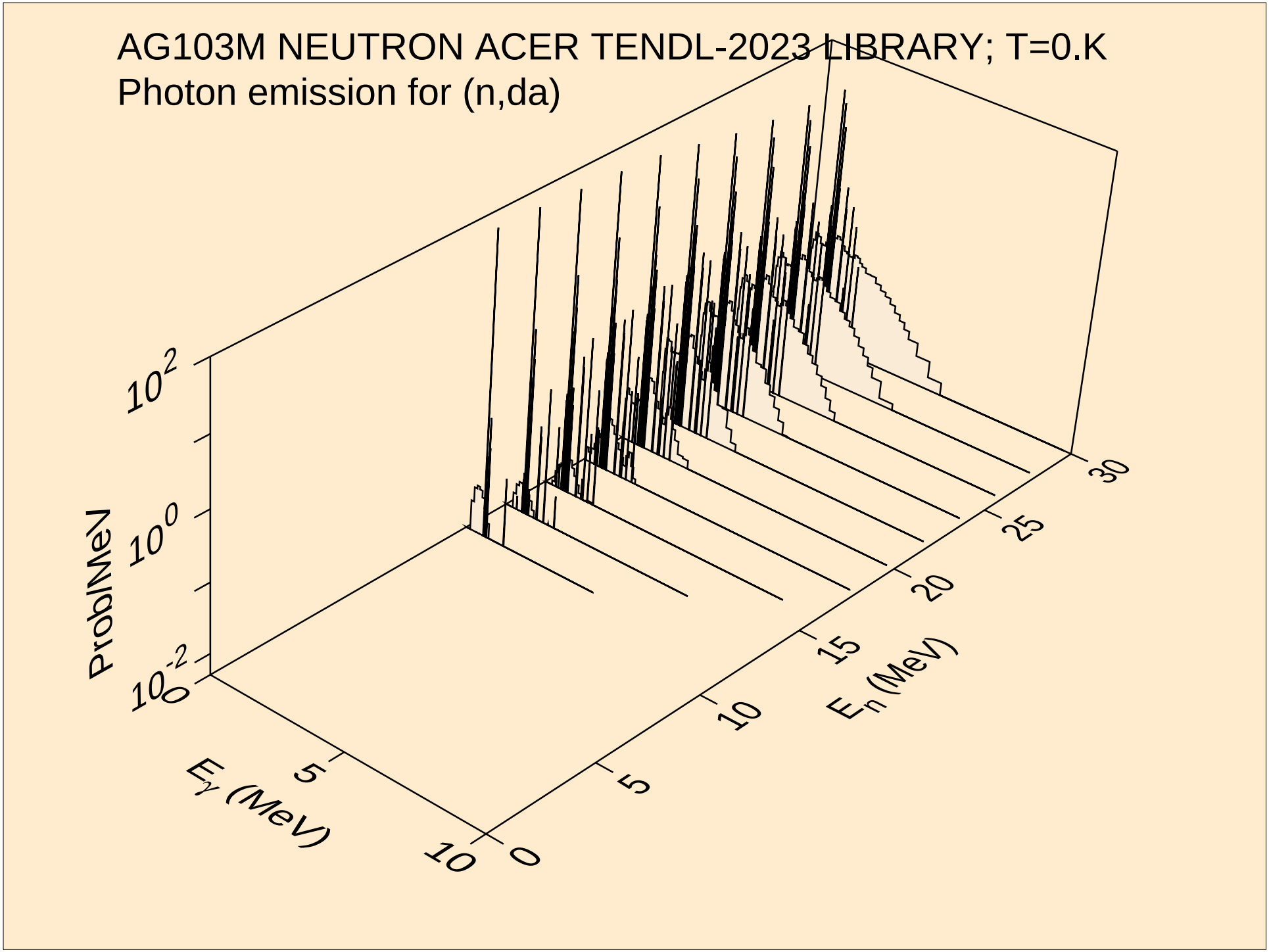

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3a)
Prob/MeV
10^0
10^-2
0
2
4
Eγ (MeV)
0
5
10
15
20
25
30
En (MeV)

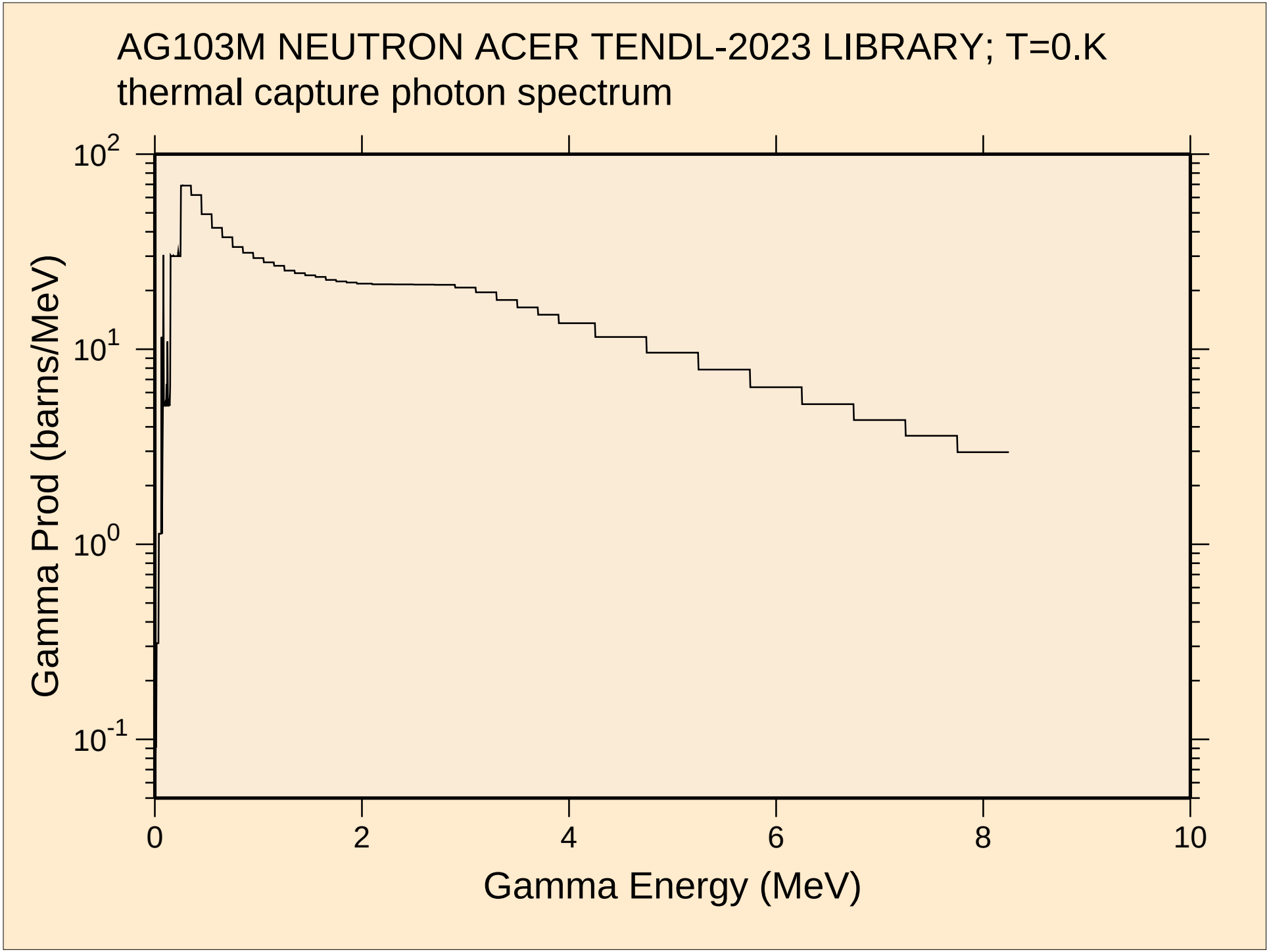

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2p)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

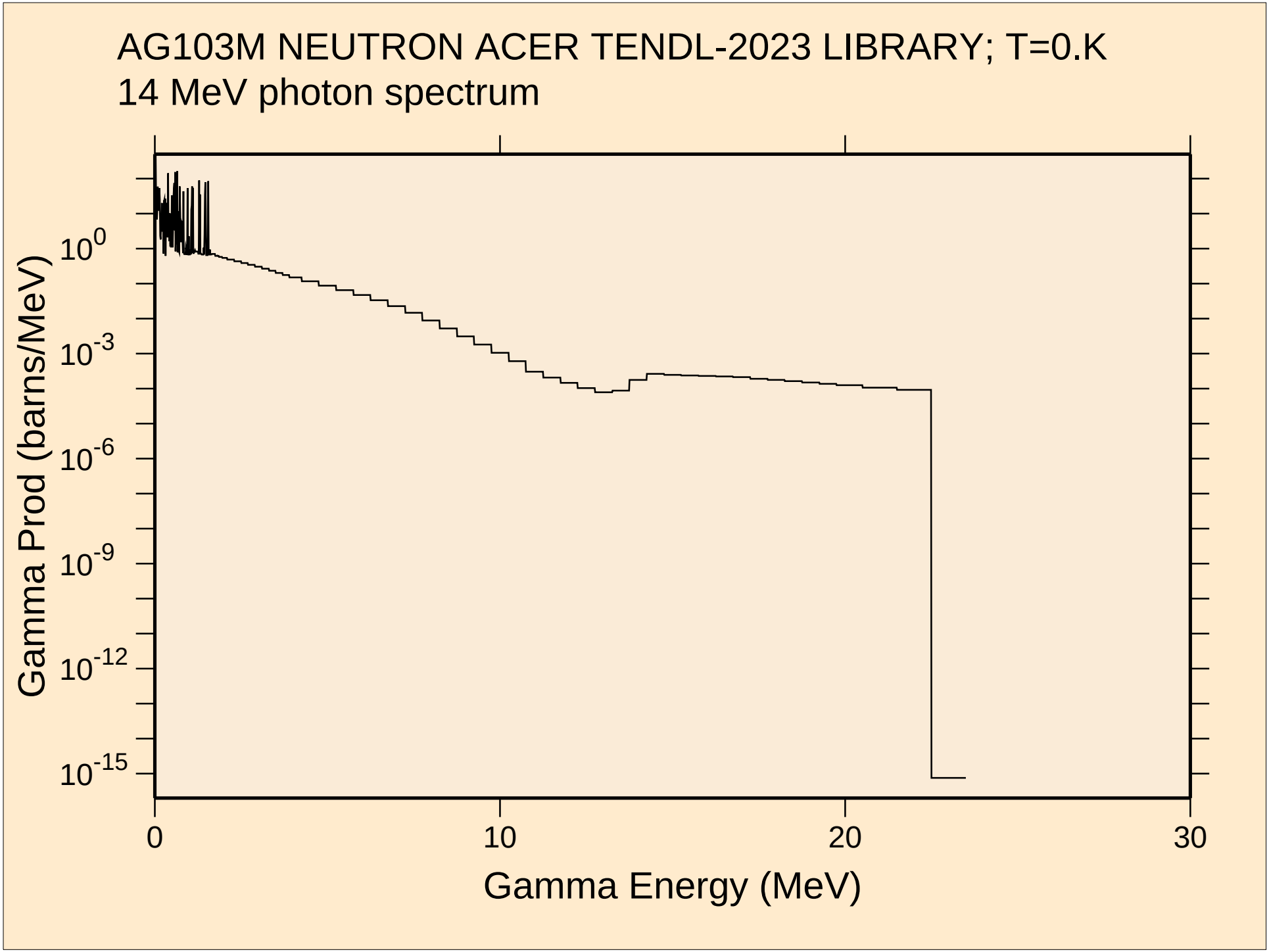

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pa)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

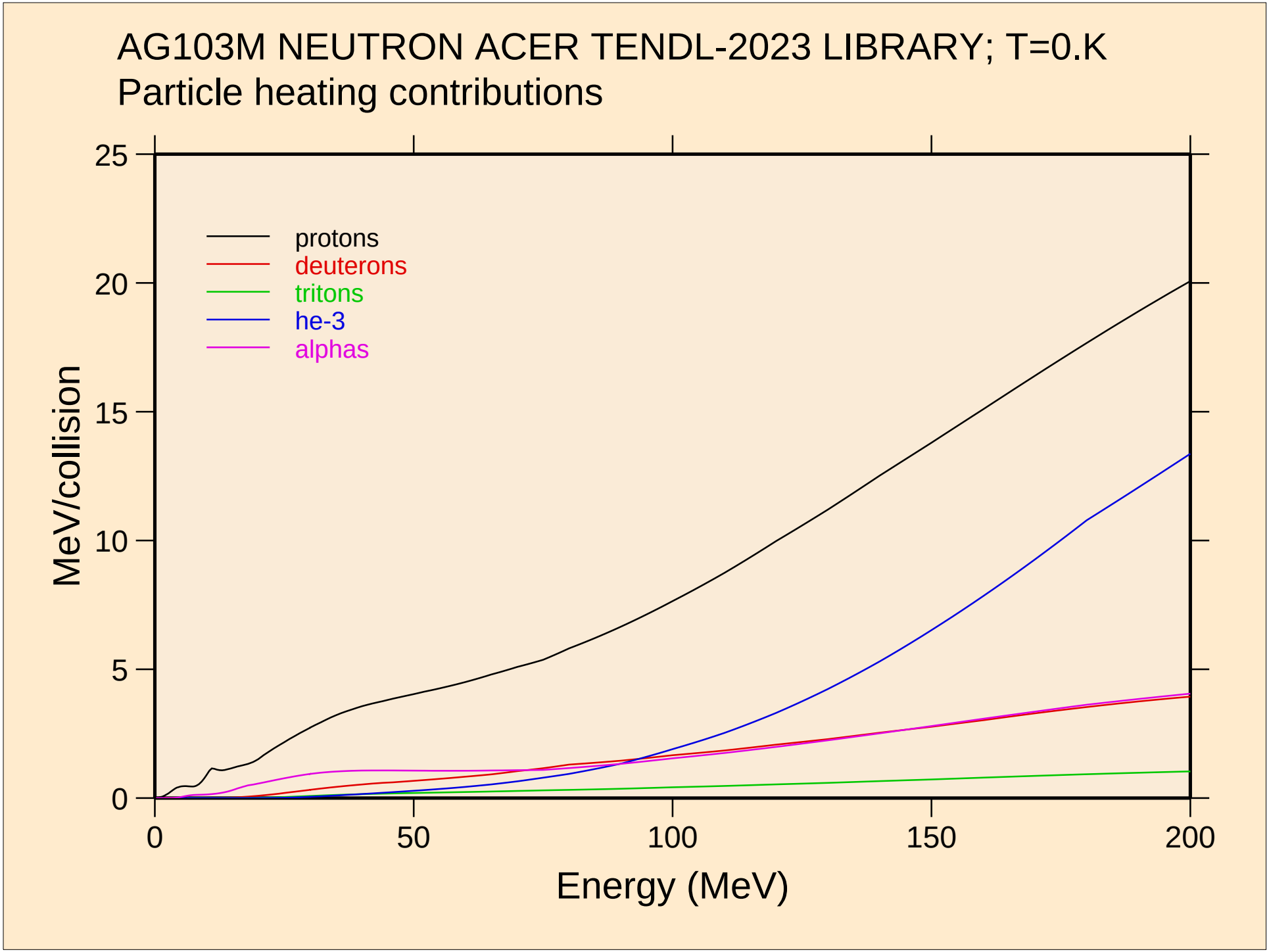

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pd)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

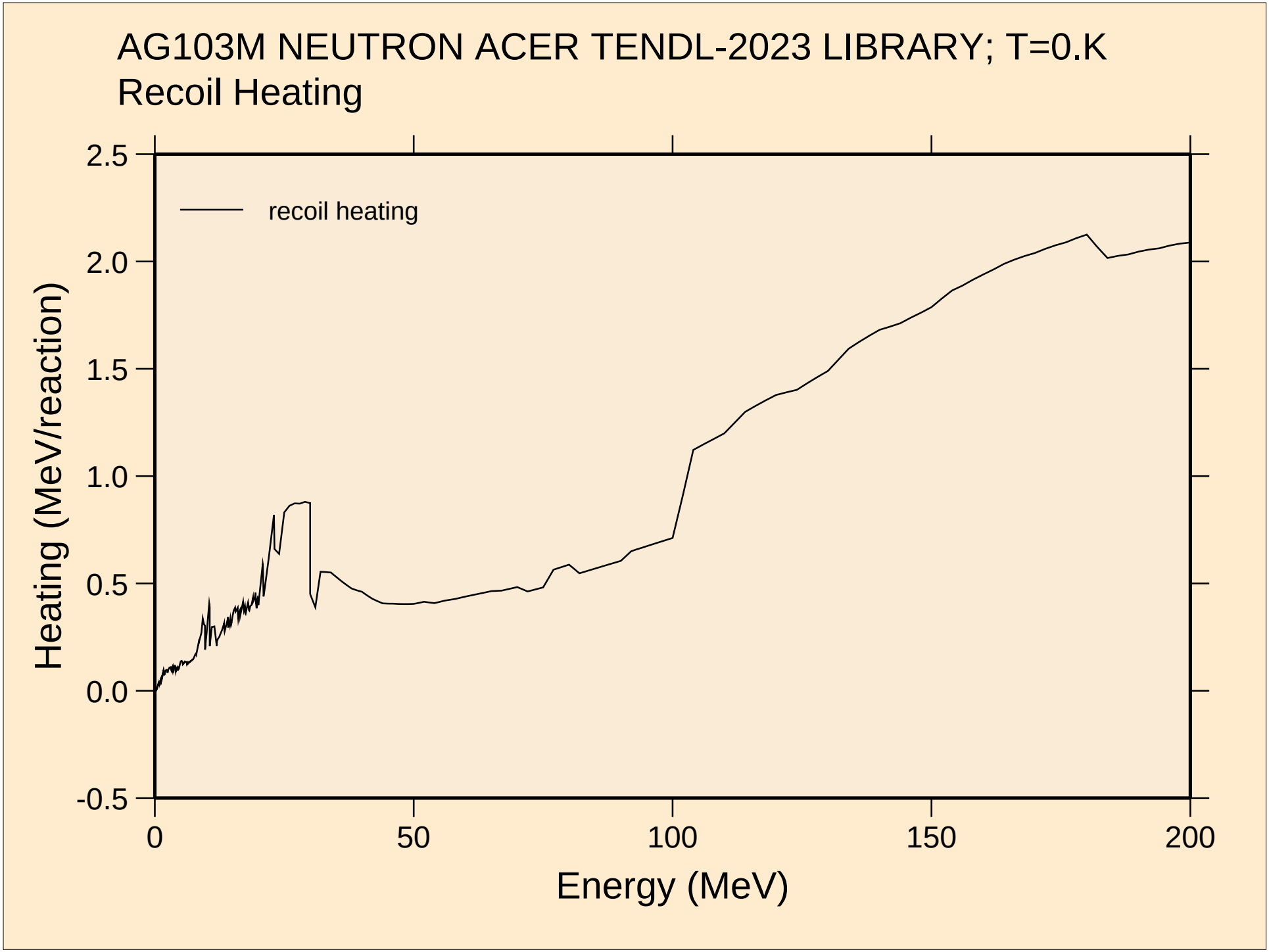

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pt)
Prob/MeV
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

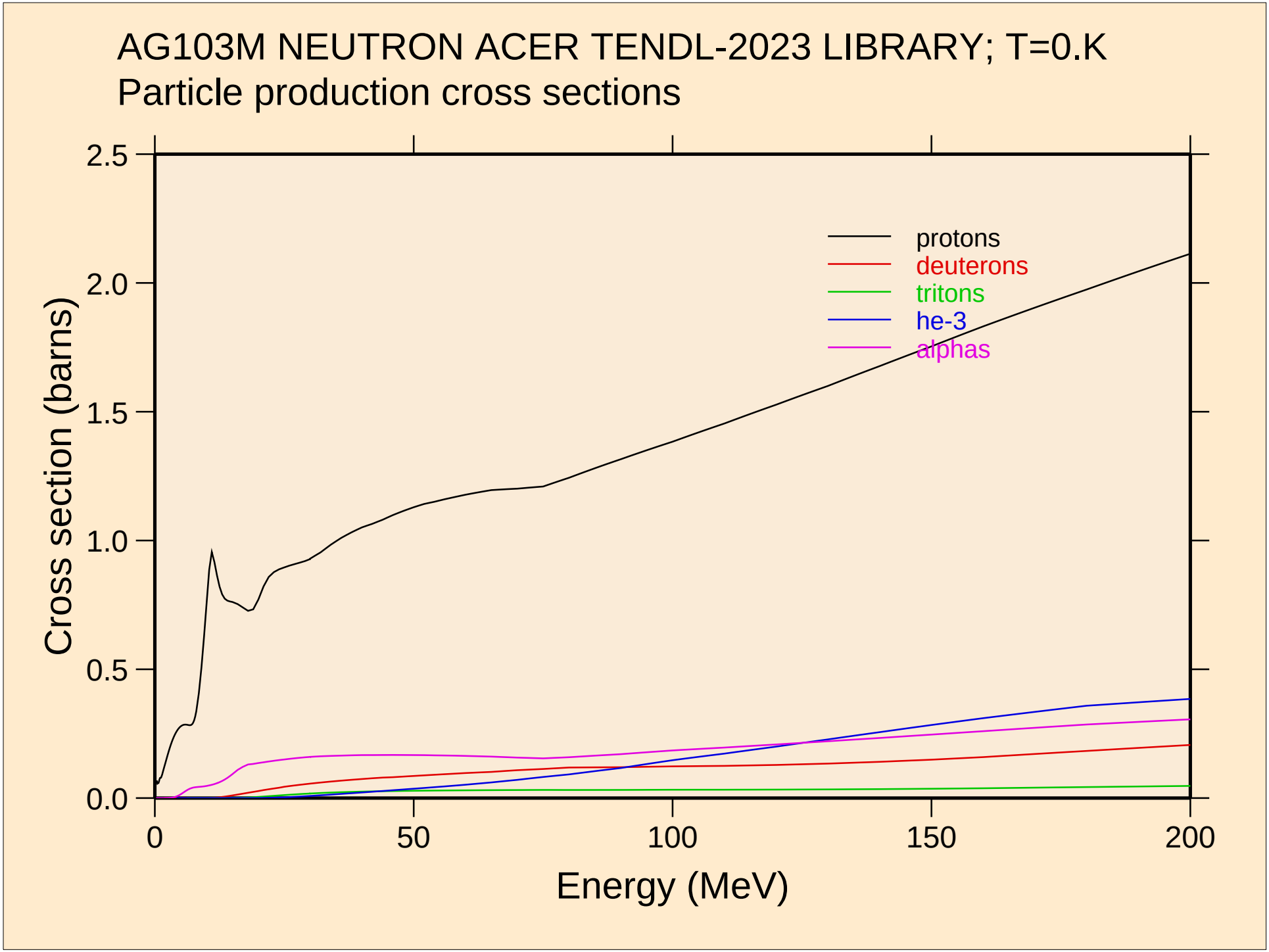

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,da)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

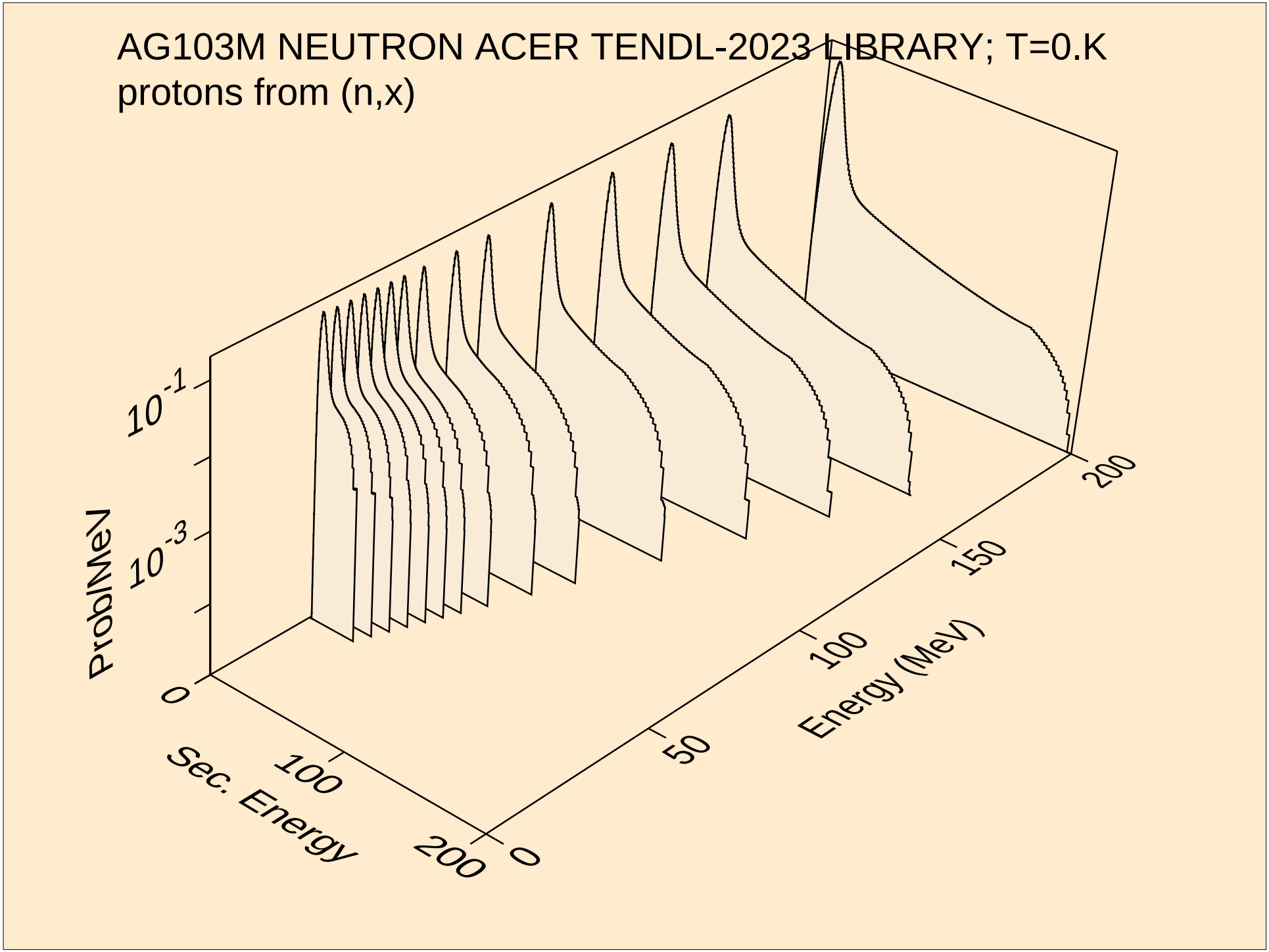

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10^{2}
10^{1}
10^{0}
10^{-1}
0
2
4
6
8
10
Gamma Energy (MeV)

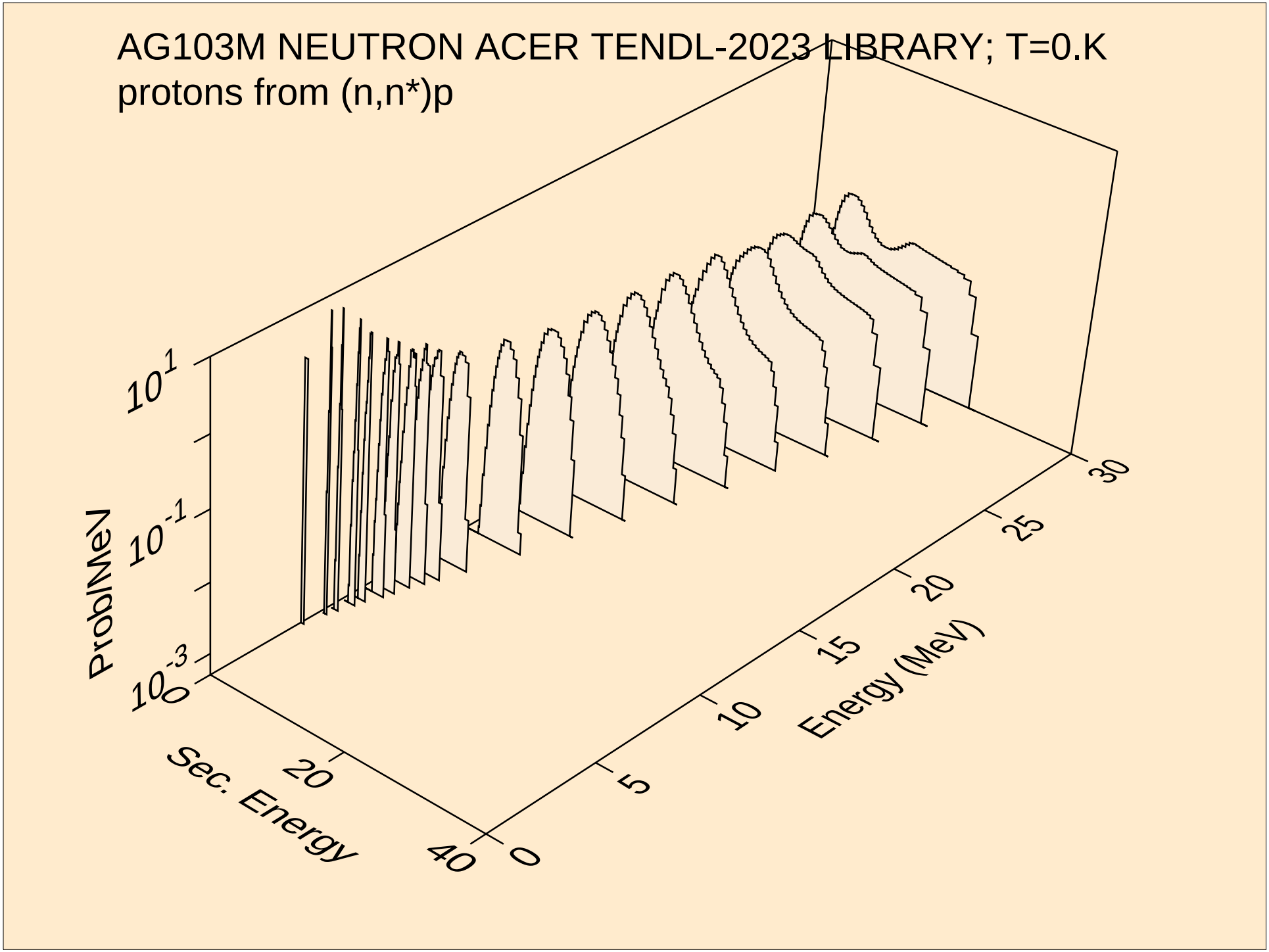

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^0
10^-3
10^-6
10^-9
10^-12
10^-15
0
10
20
30
Gamma Energy (MeV)

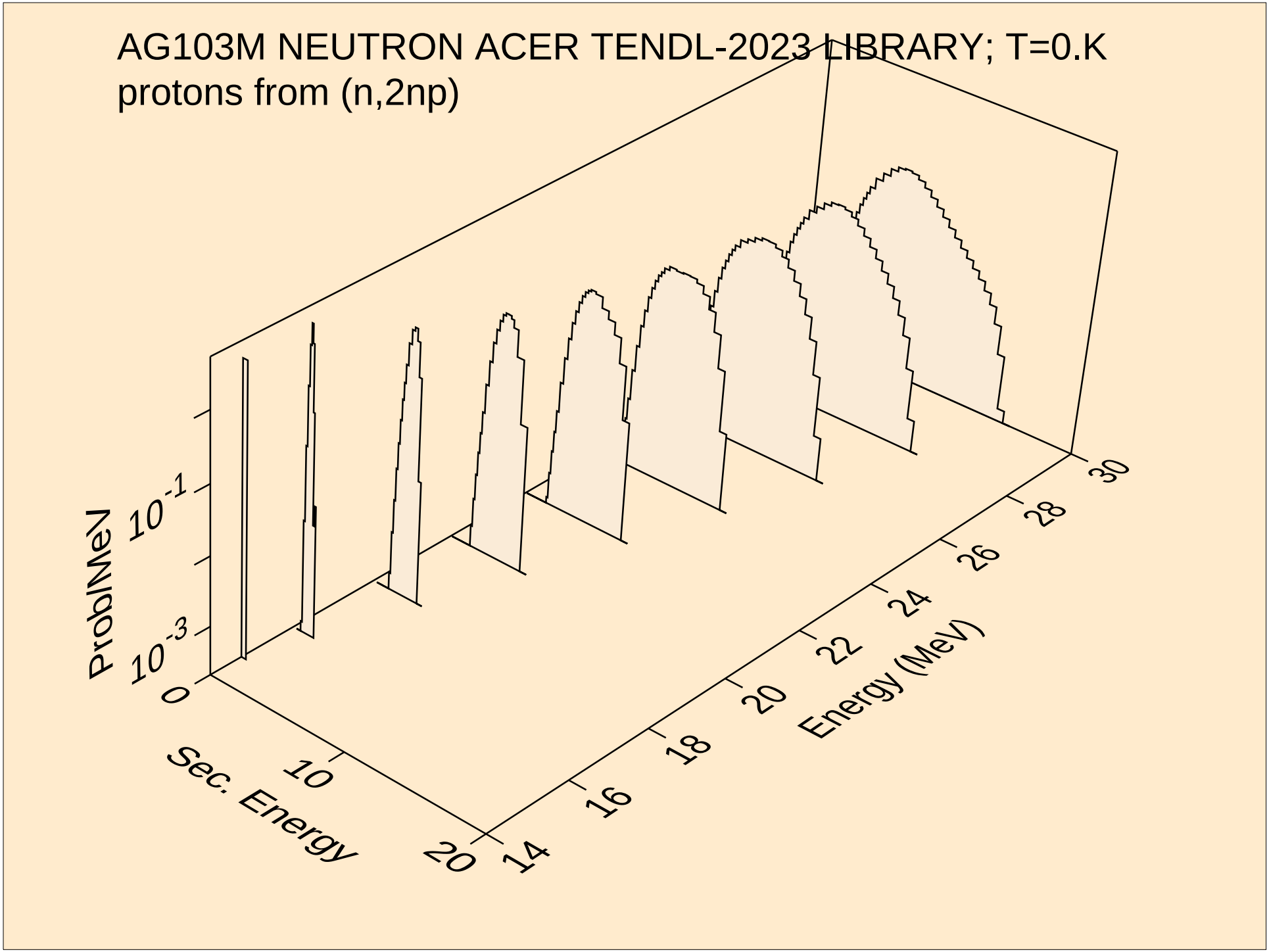

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Particle heating contributions
protons
deuterons
tritons
he-3
alphas
MeV/collision
Energy (MeV)
0
5
10
15
20
25
0
50
100
150
200

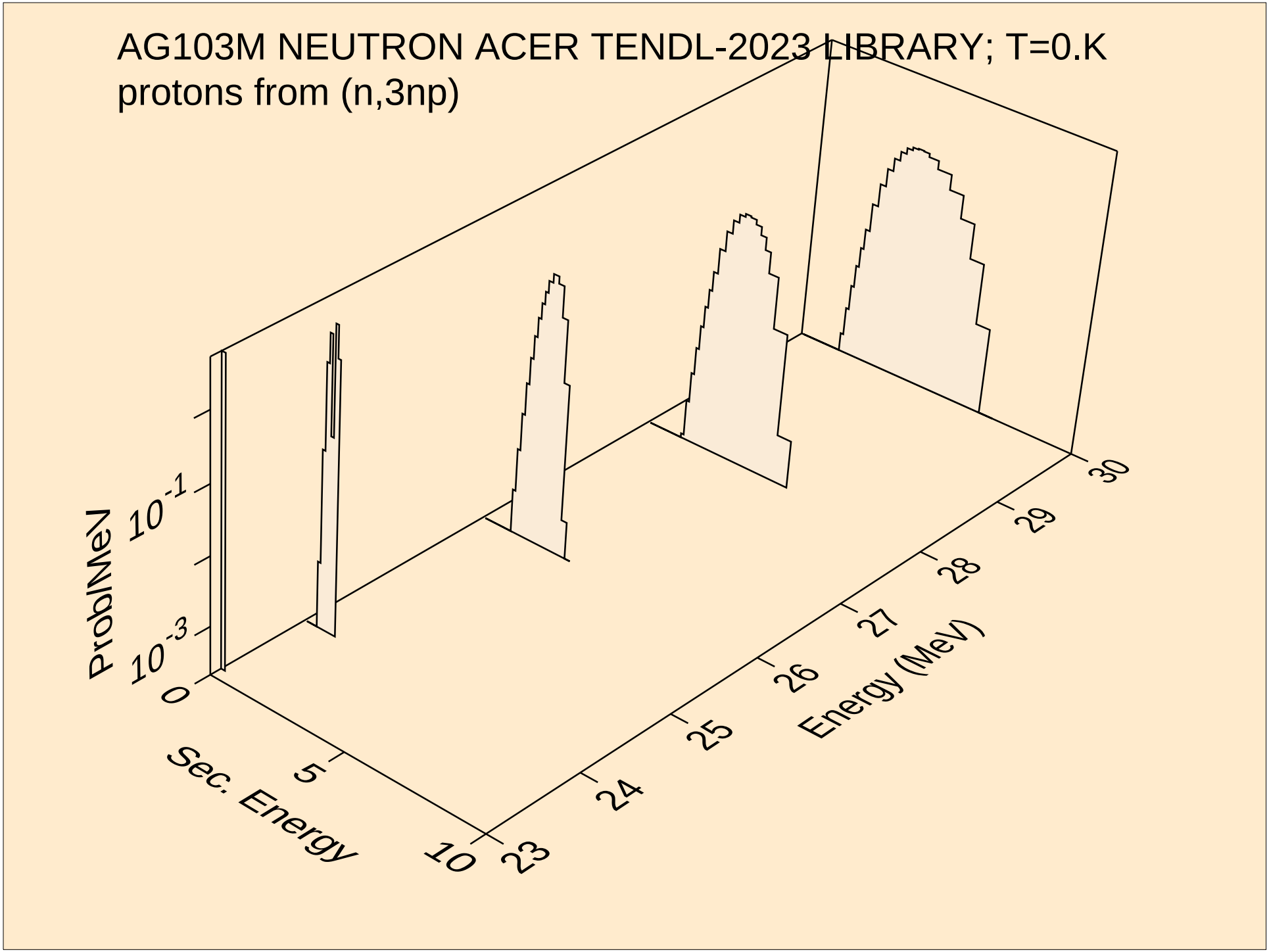

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
0
50
100
150
200

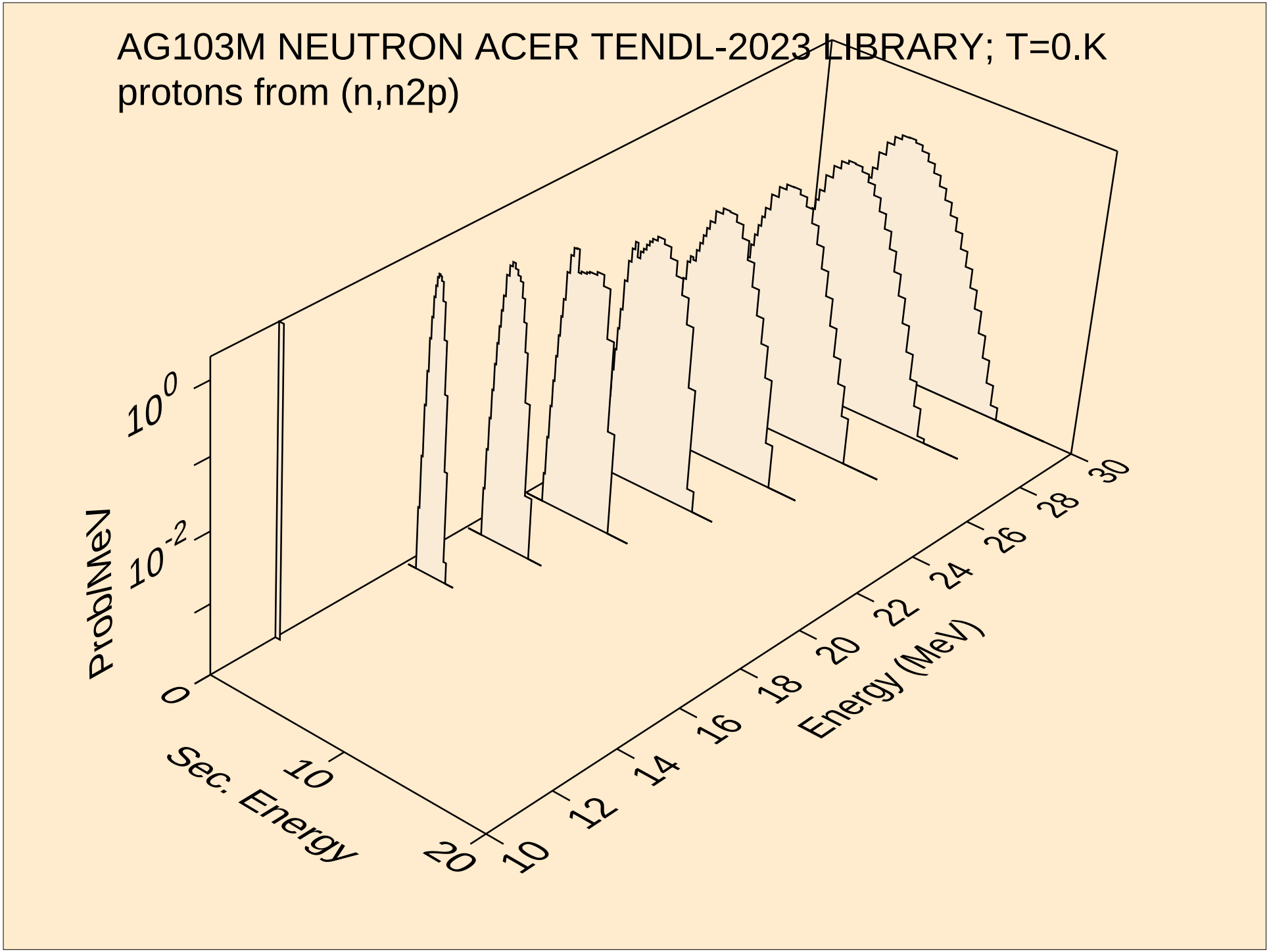

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Particle production cross sections
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
0
50
100
150
200
protons
deuterons
tritons
he-3
alphas

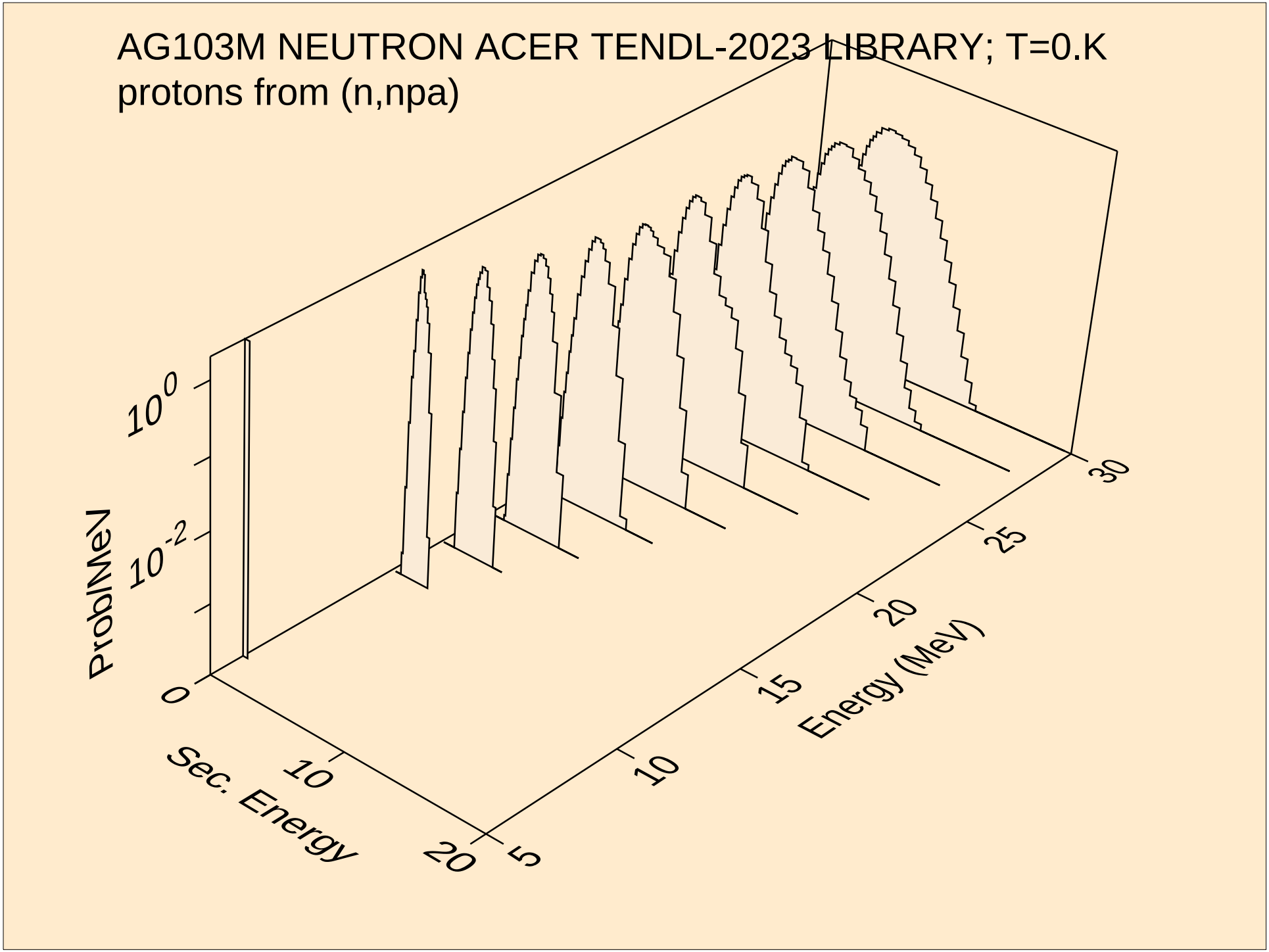

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

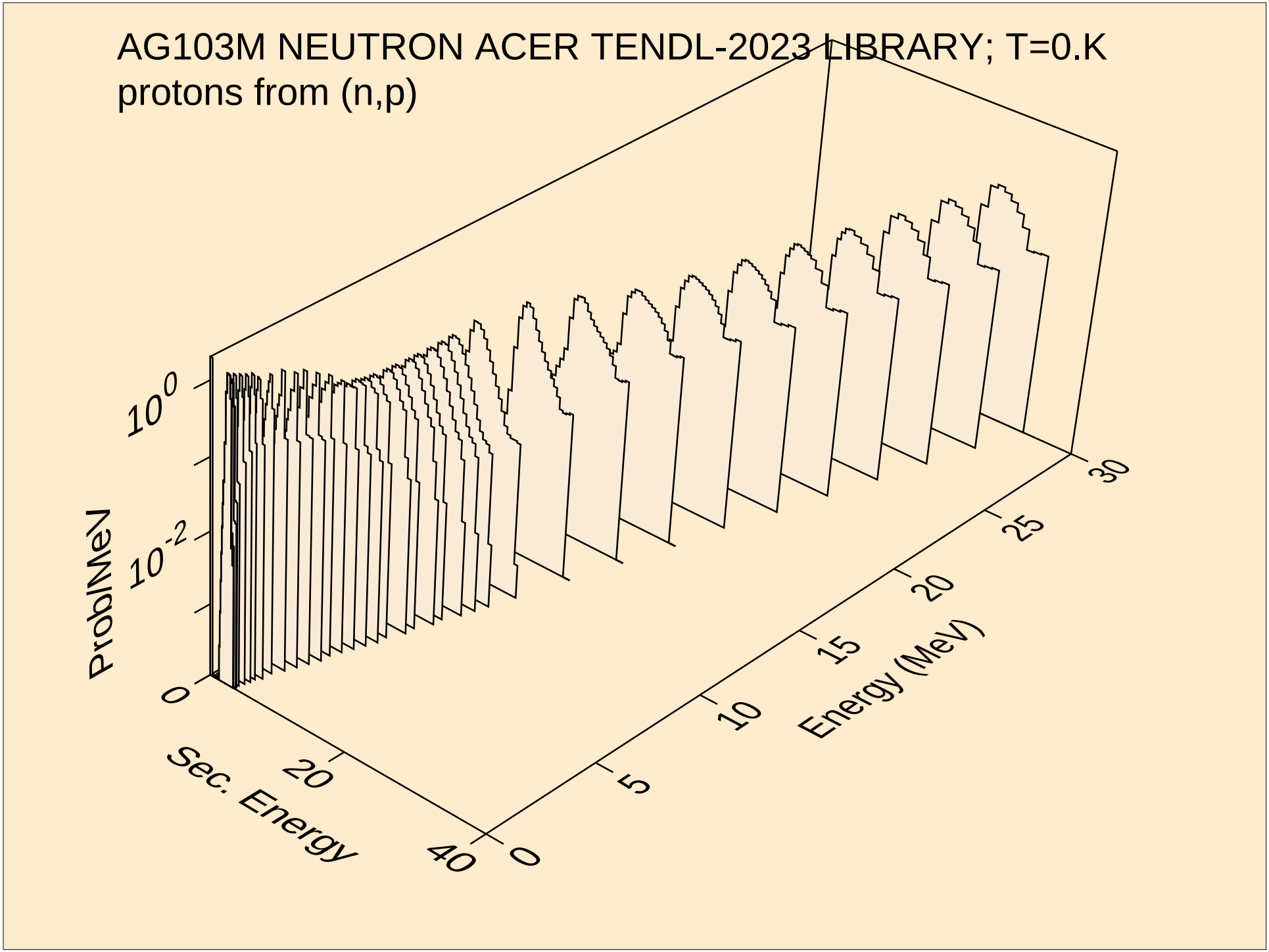

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,n*)p
Prob/MeV
10^1
10^-1
10^-3
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

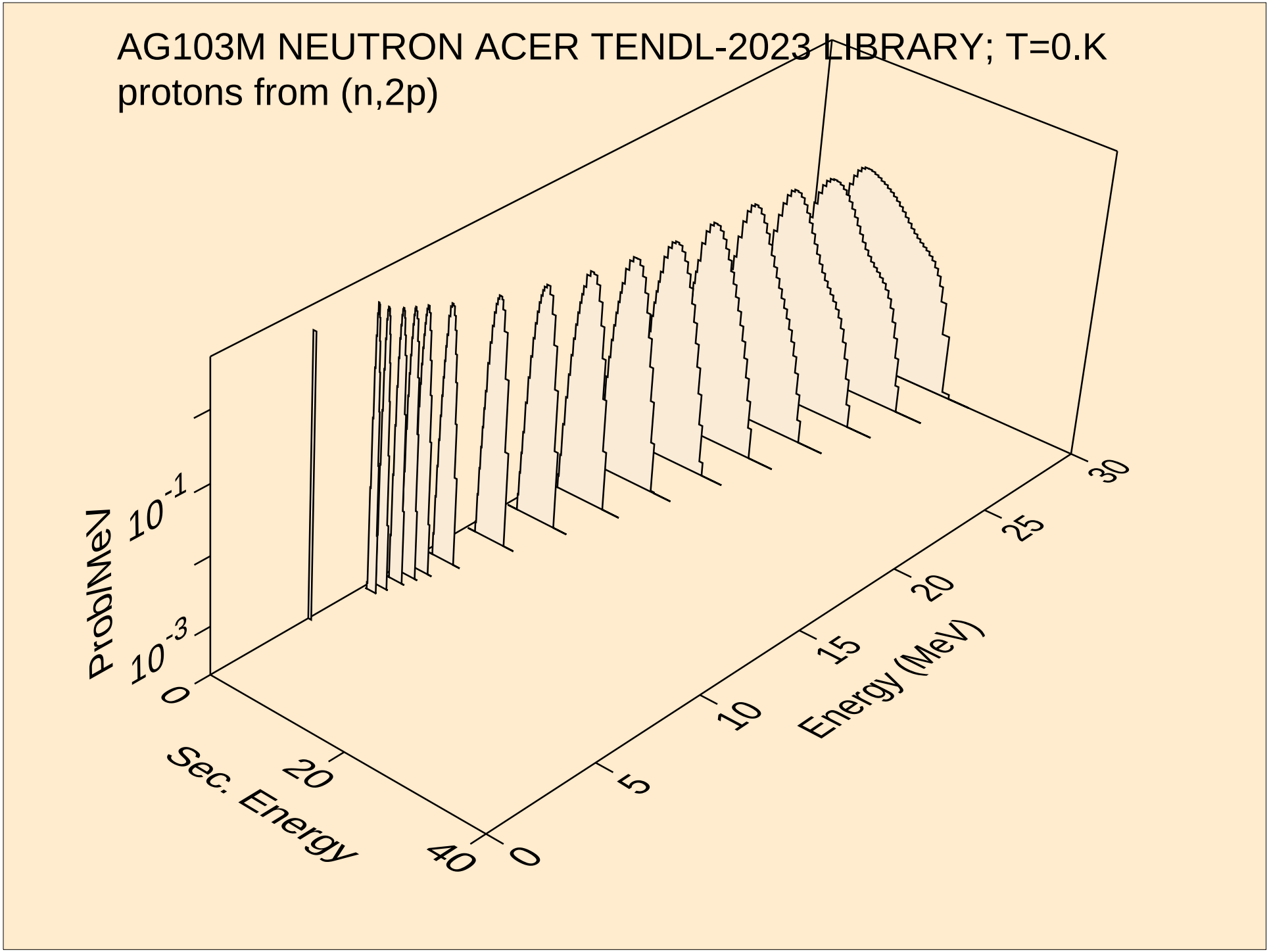

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,2np)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
Energy (MeV)
14
16
18
20
22
24
26
28
30

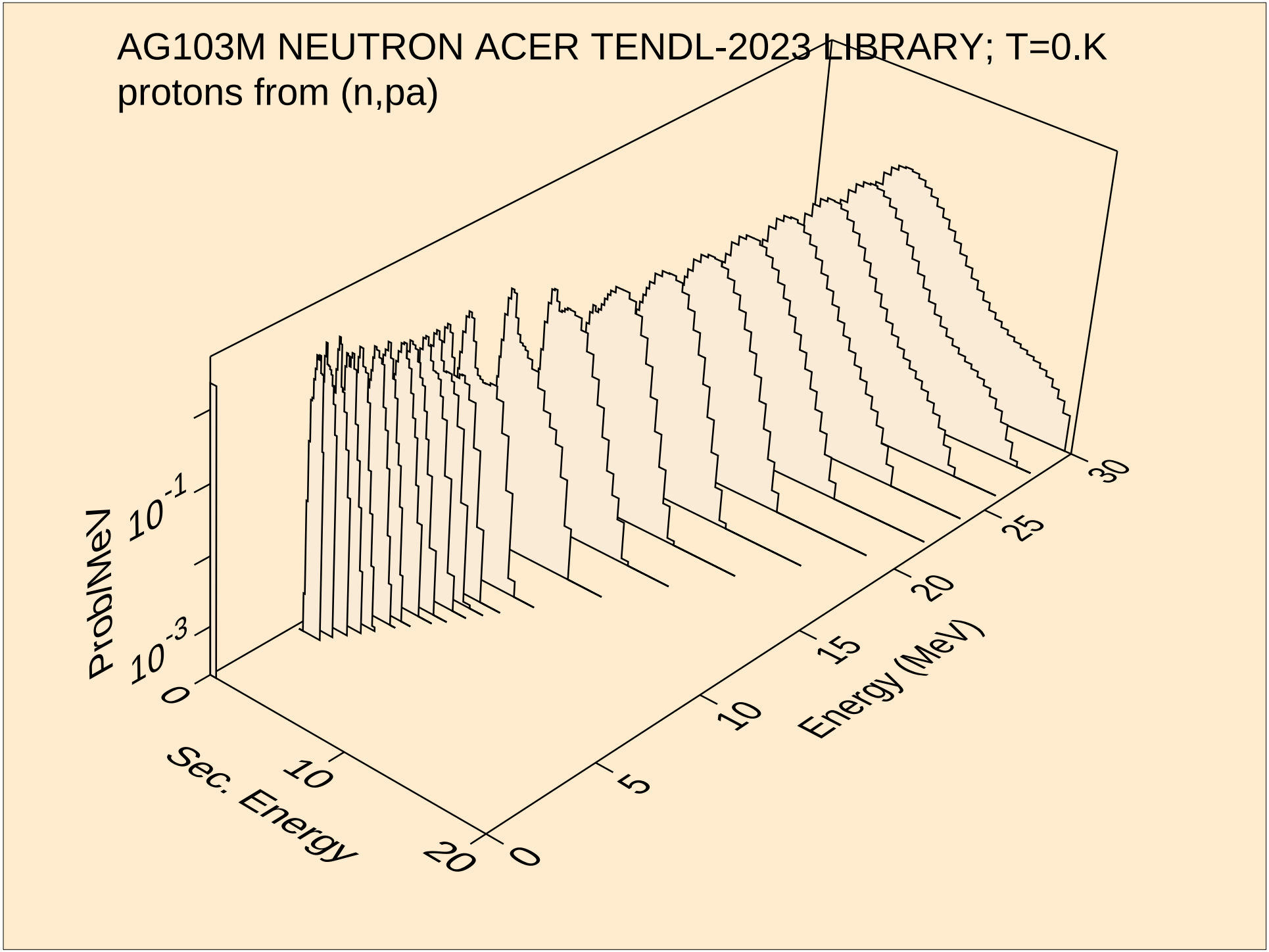

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,3np)
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
23
24
25
26
27
28
29
30
Energy (MeV)

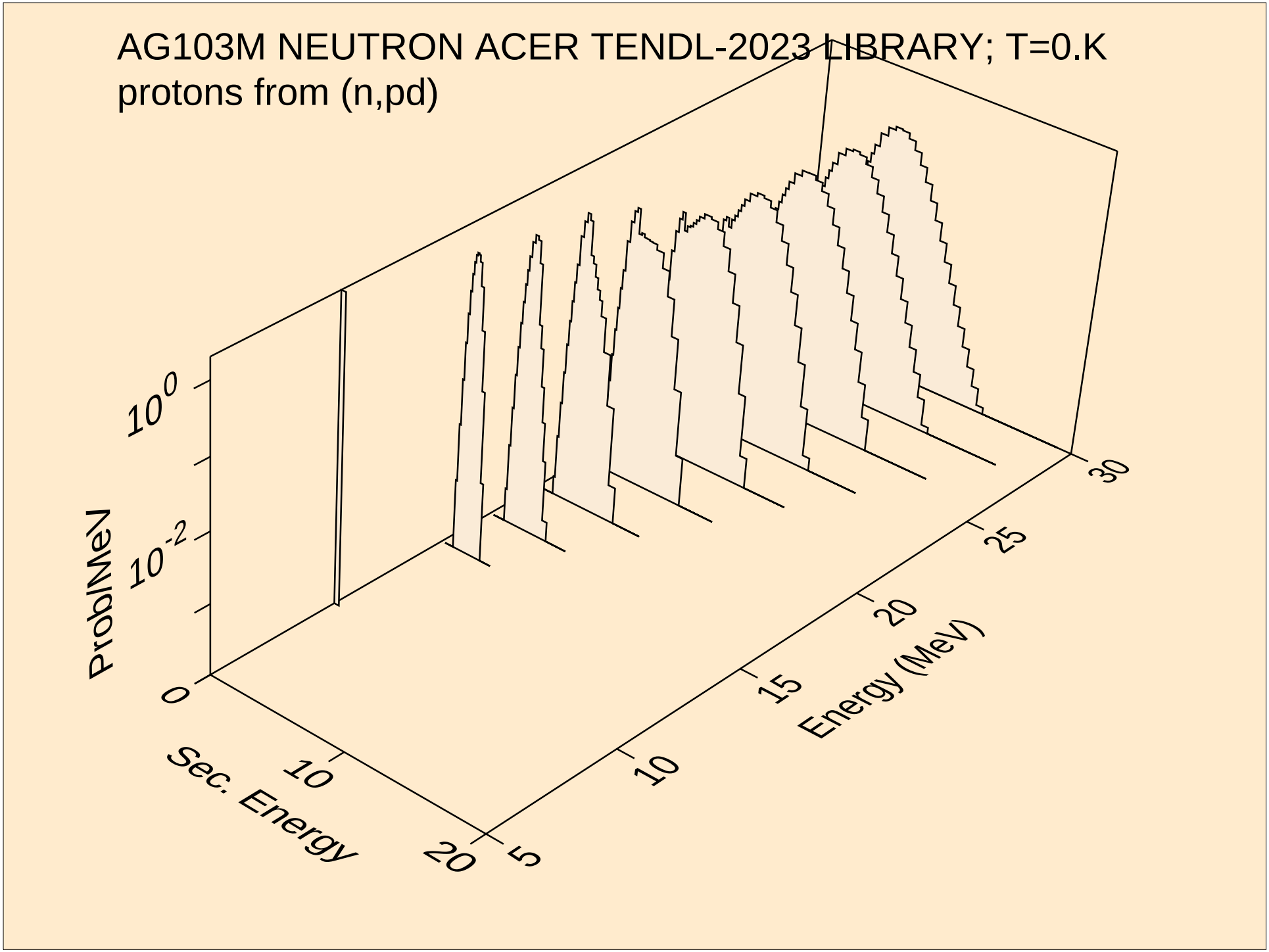

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,n2p)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
Energy (MeV)
10
12
14
16
18
20
22
24
26
28
30

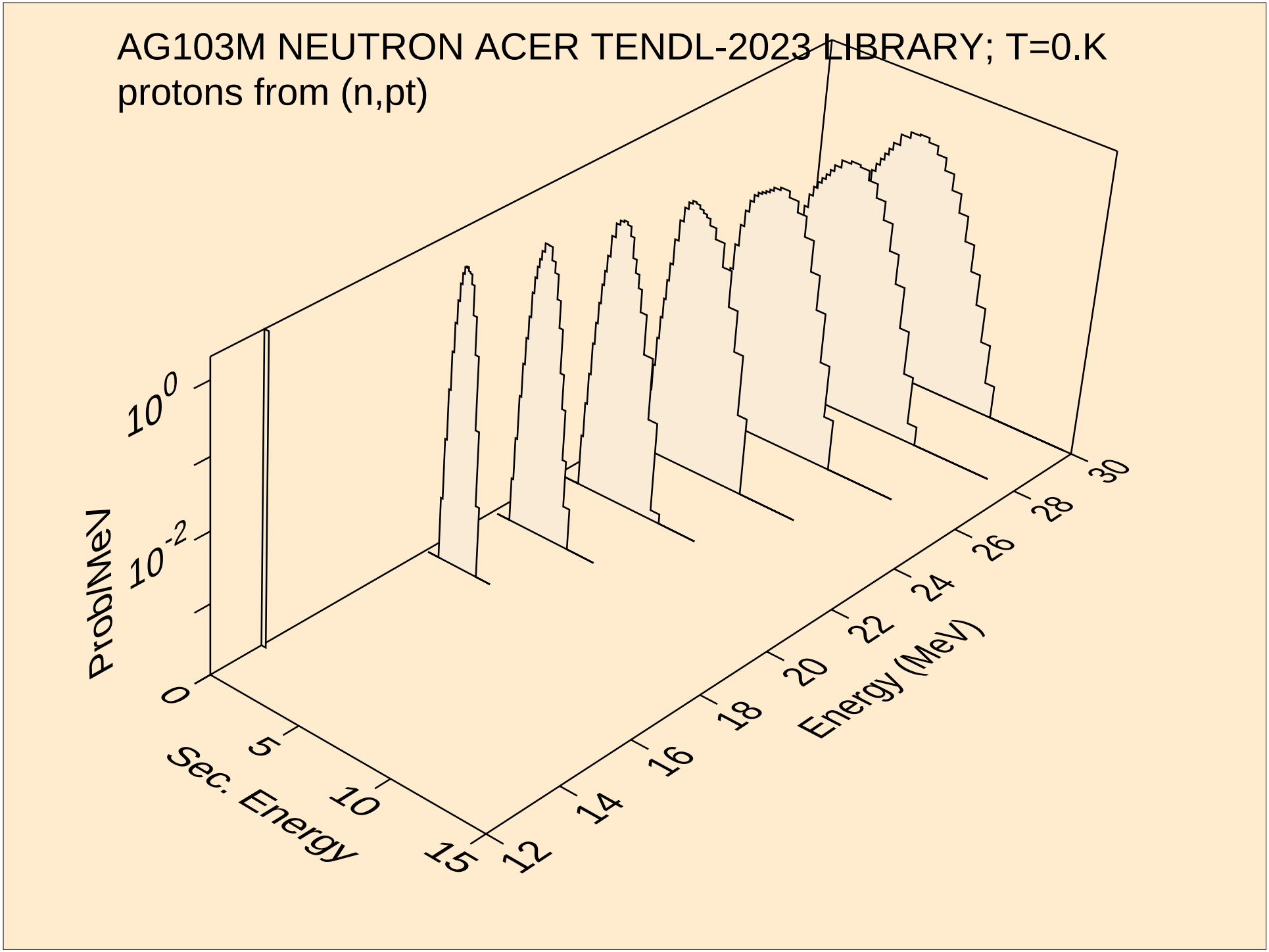

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,npa)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

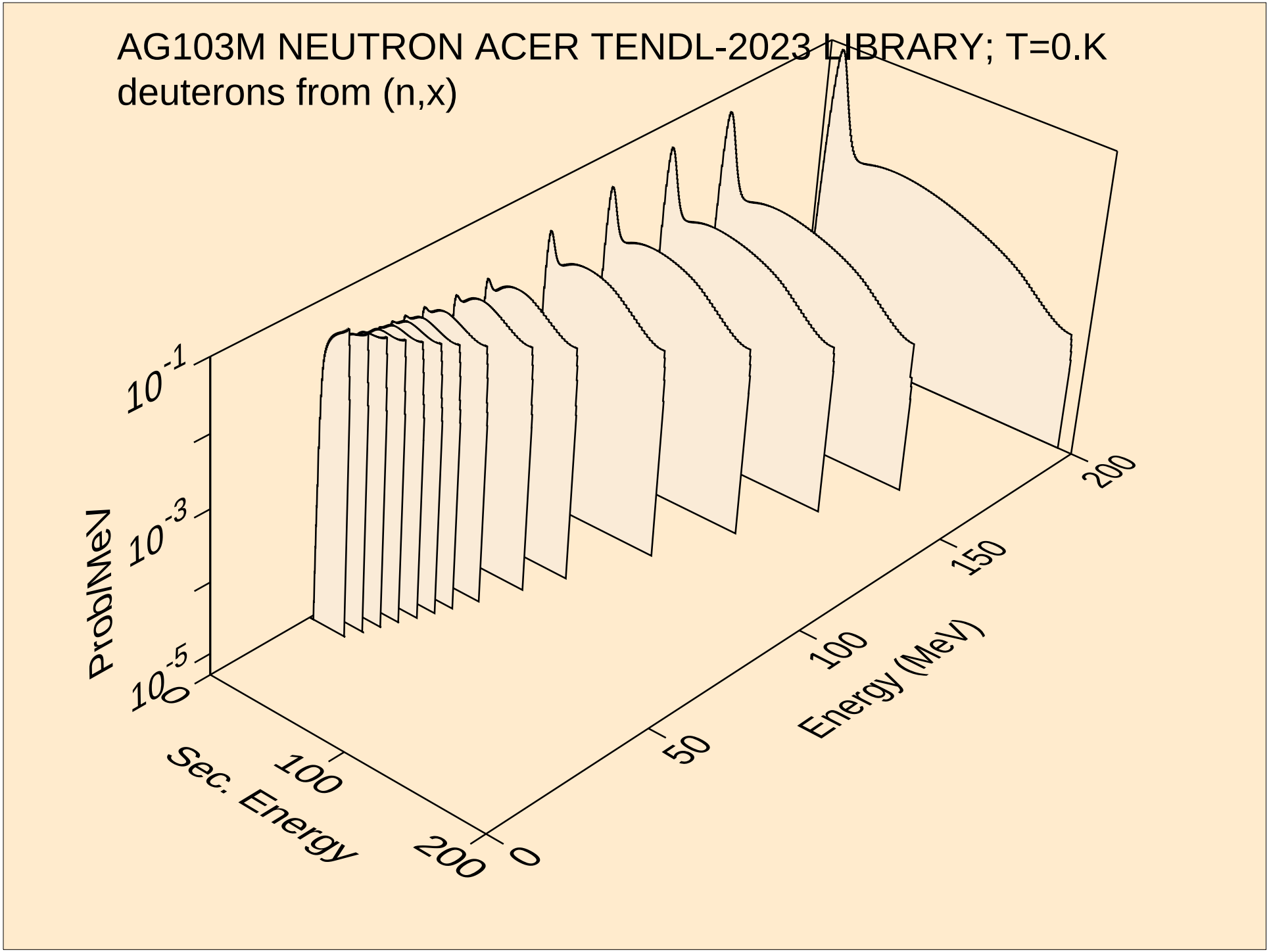

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,p)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

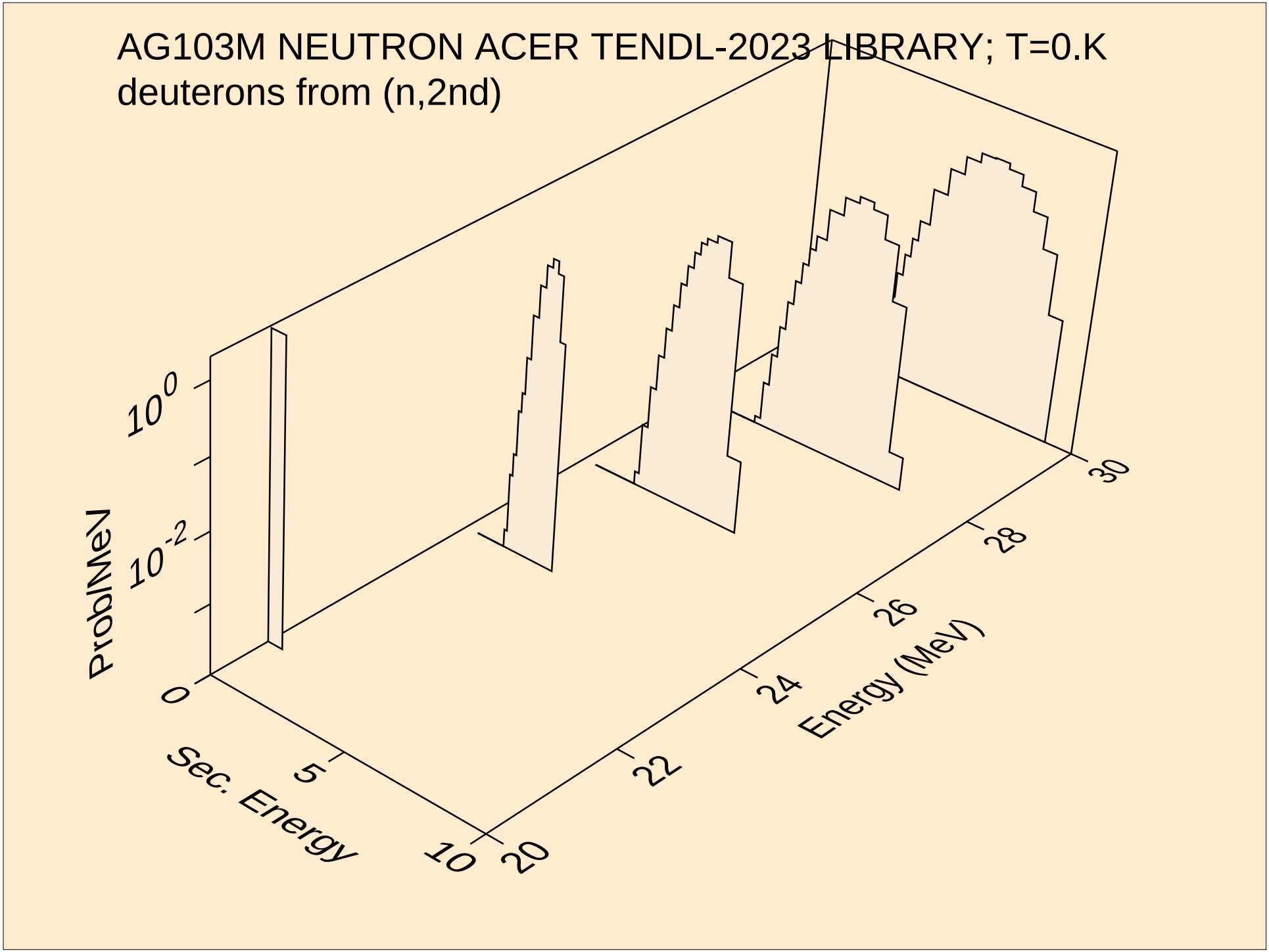

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,2p)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

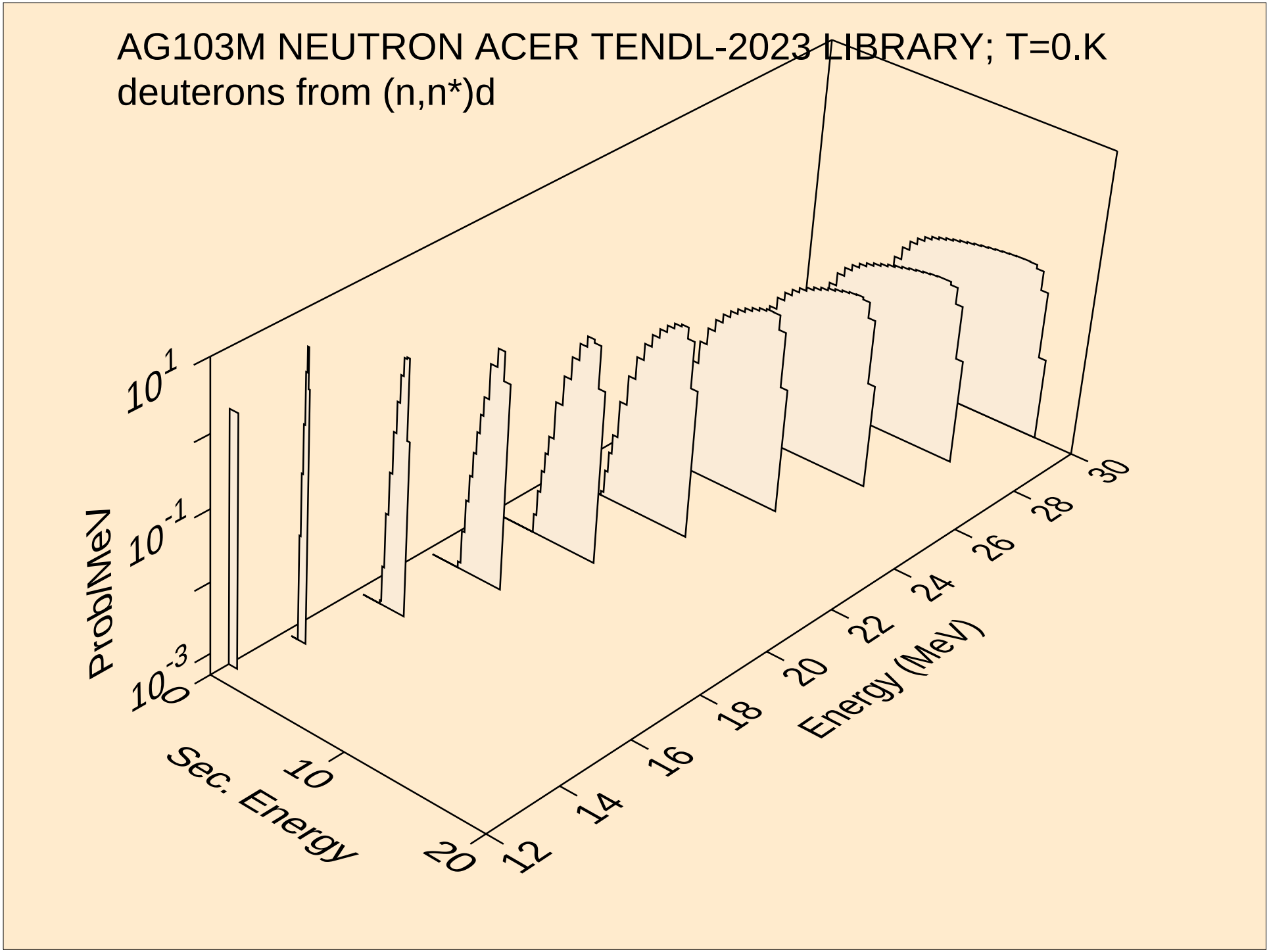

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,pa)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
0
5
10
15
20
25
30
Energy (MeV)

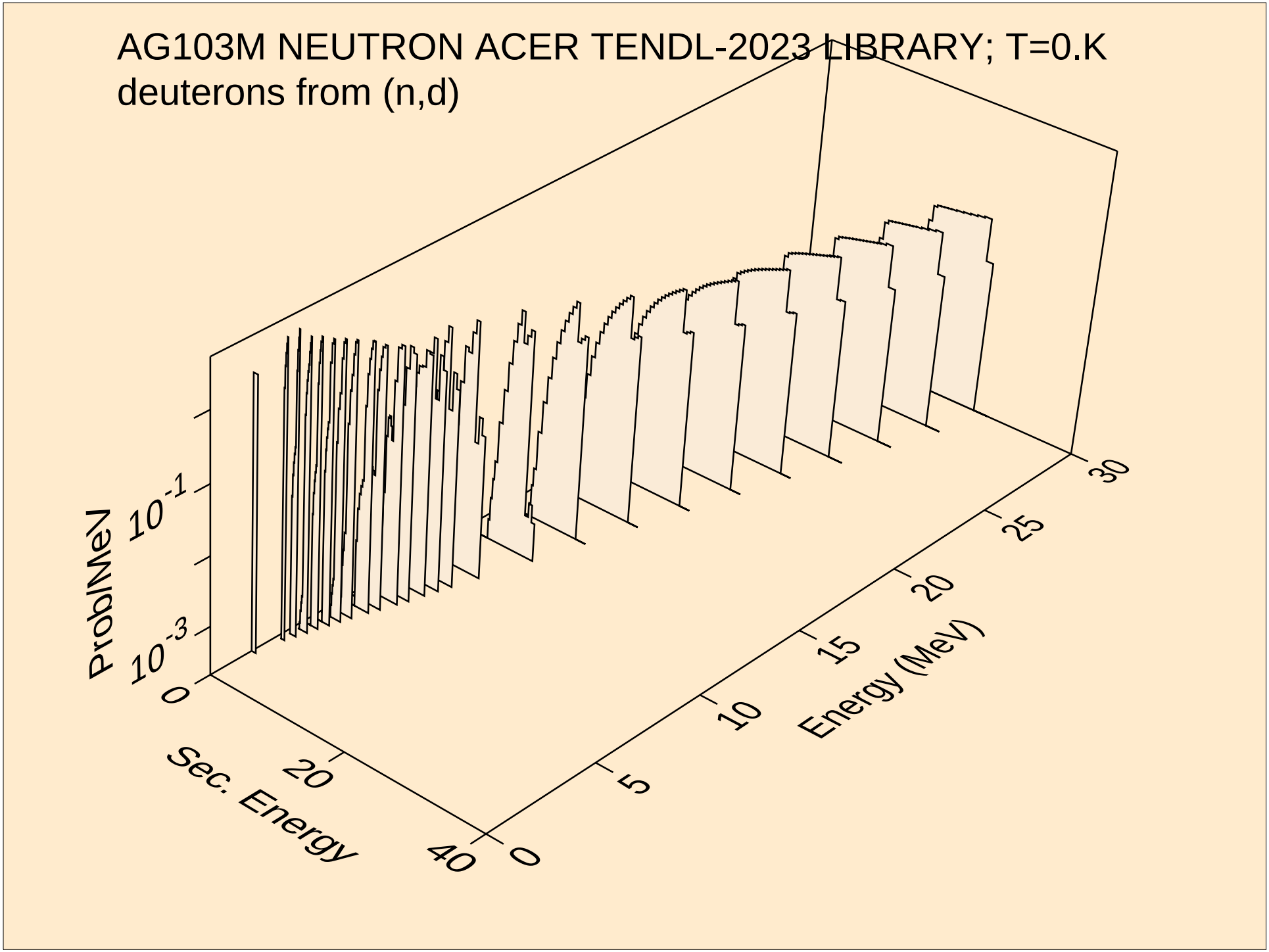

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,pd)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

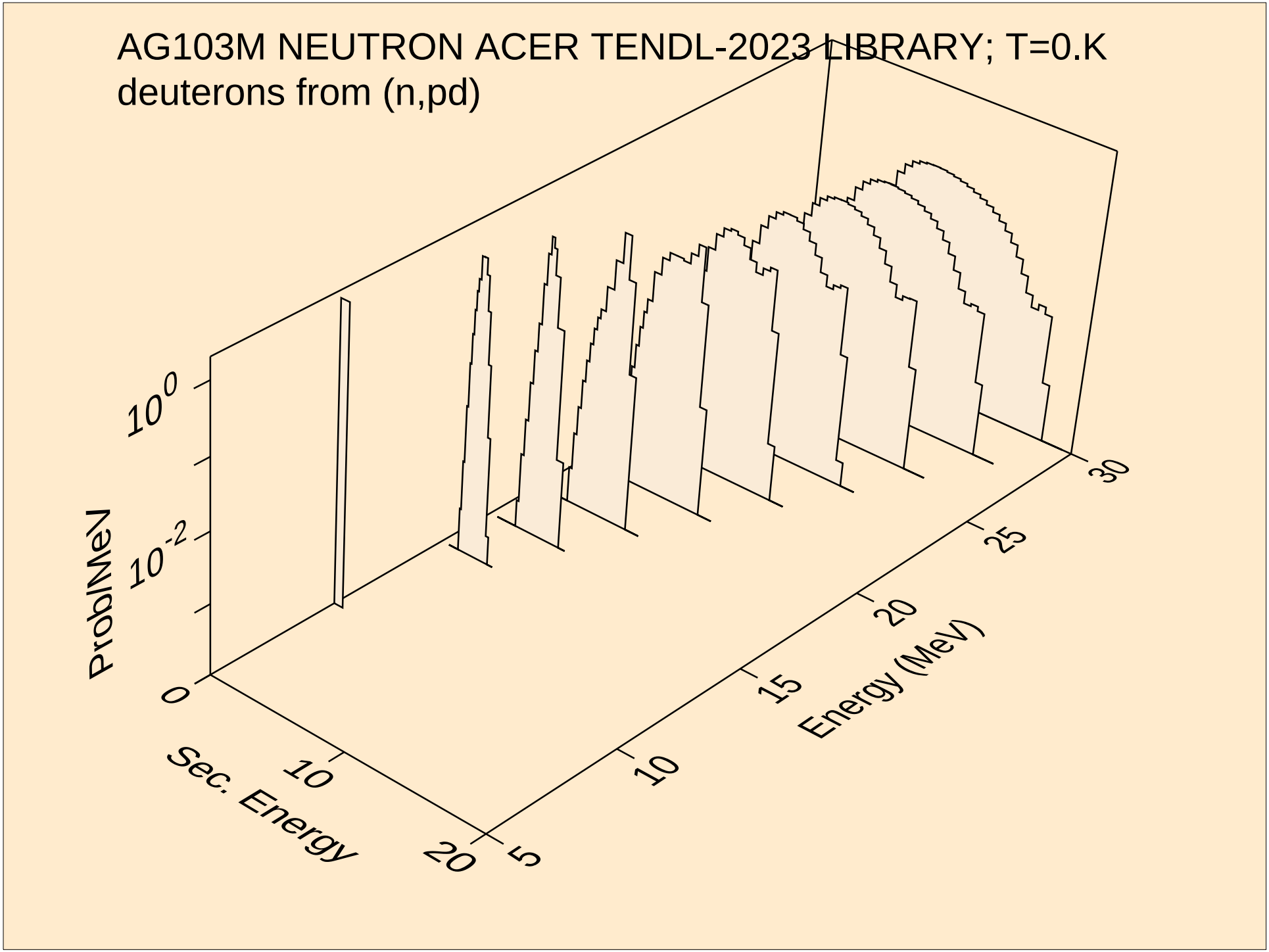

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,pt)
Prob/MeV
10^0
10^-2
0
5
10
15
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

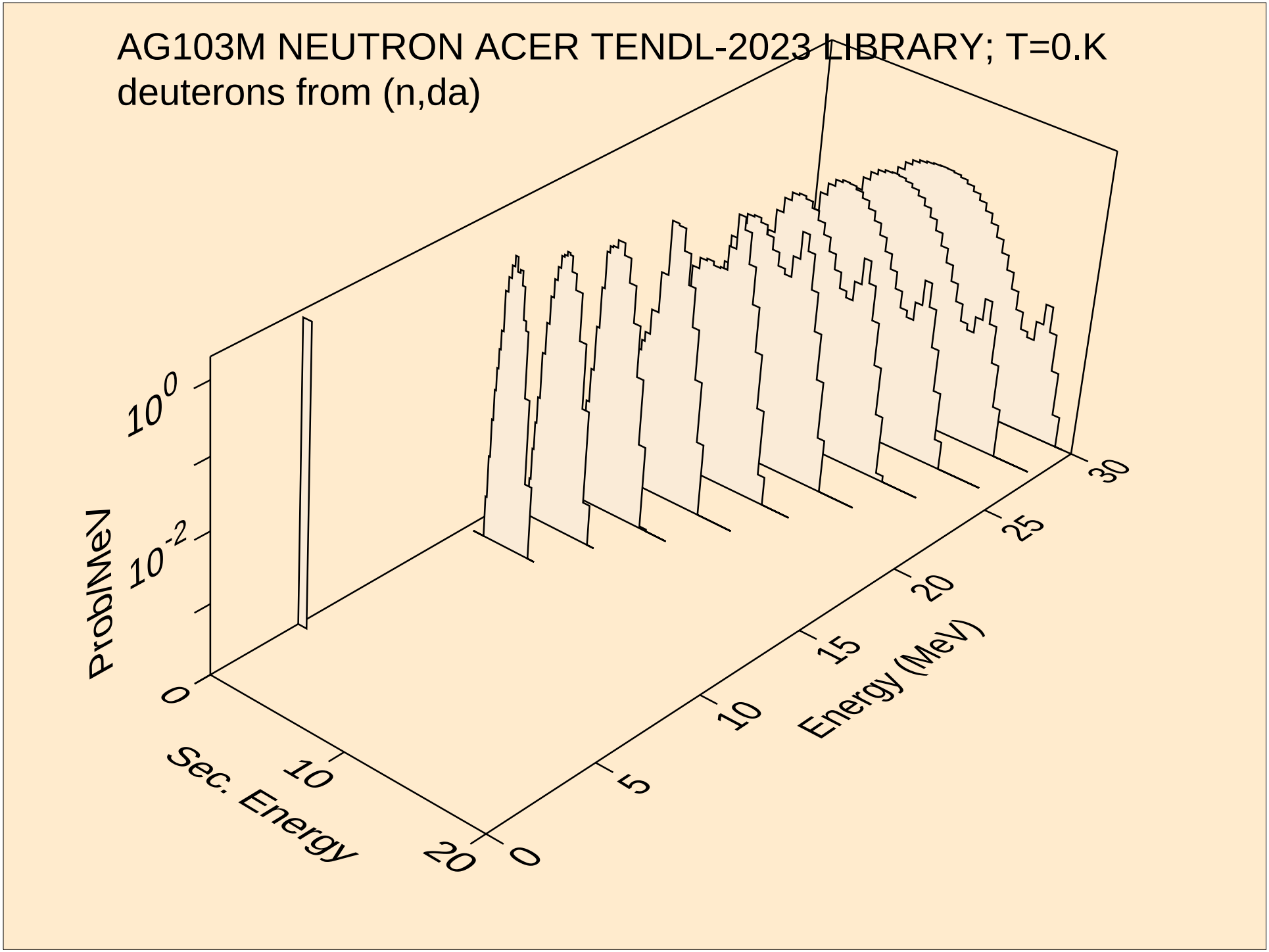

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,x)
Prob/MeV
10-1
10-3
10-5
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

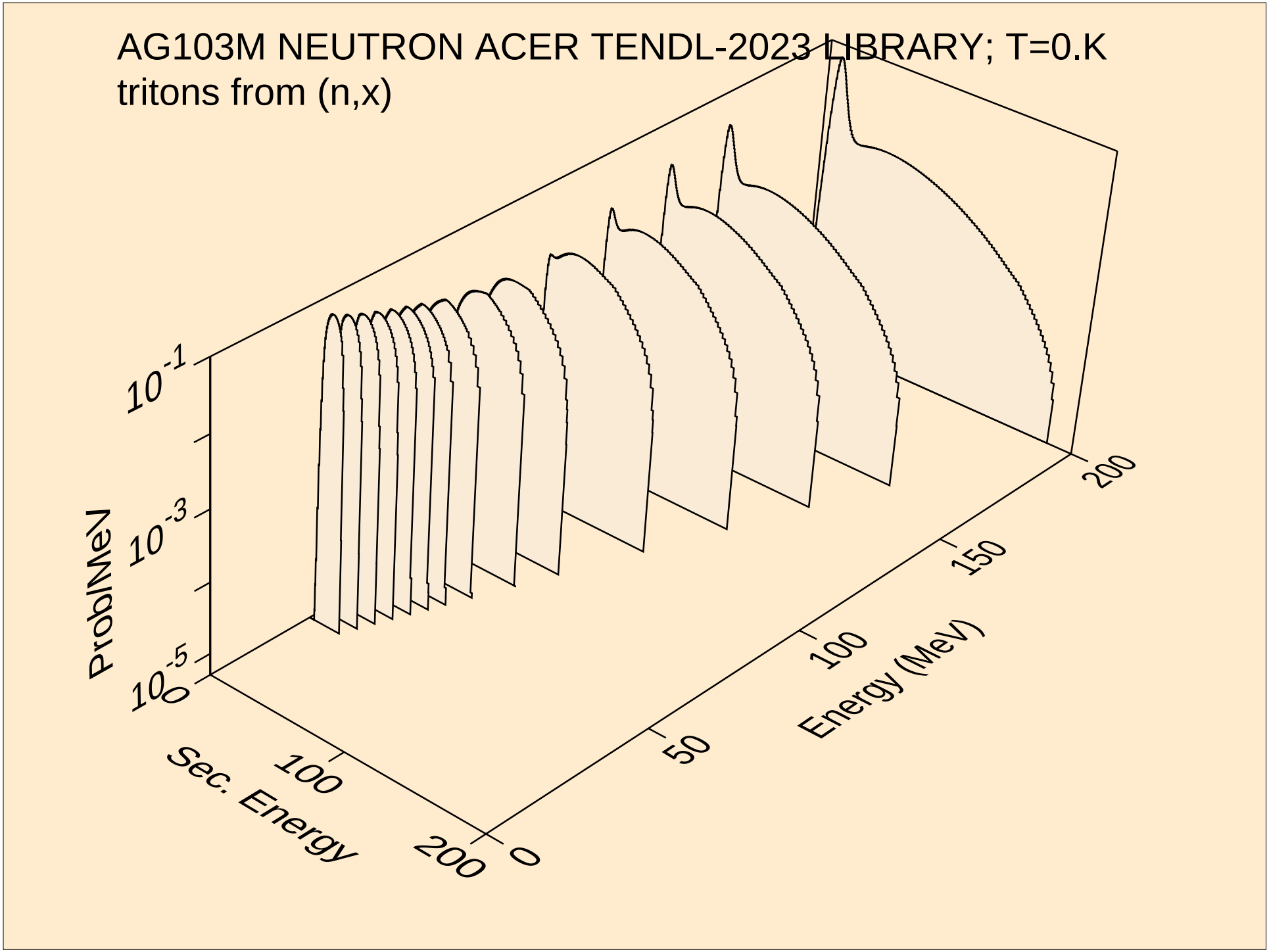

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,2nd)
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
20
22
24
Energy (MeV)
26
28
30

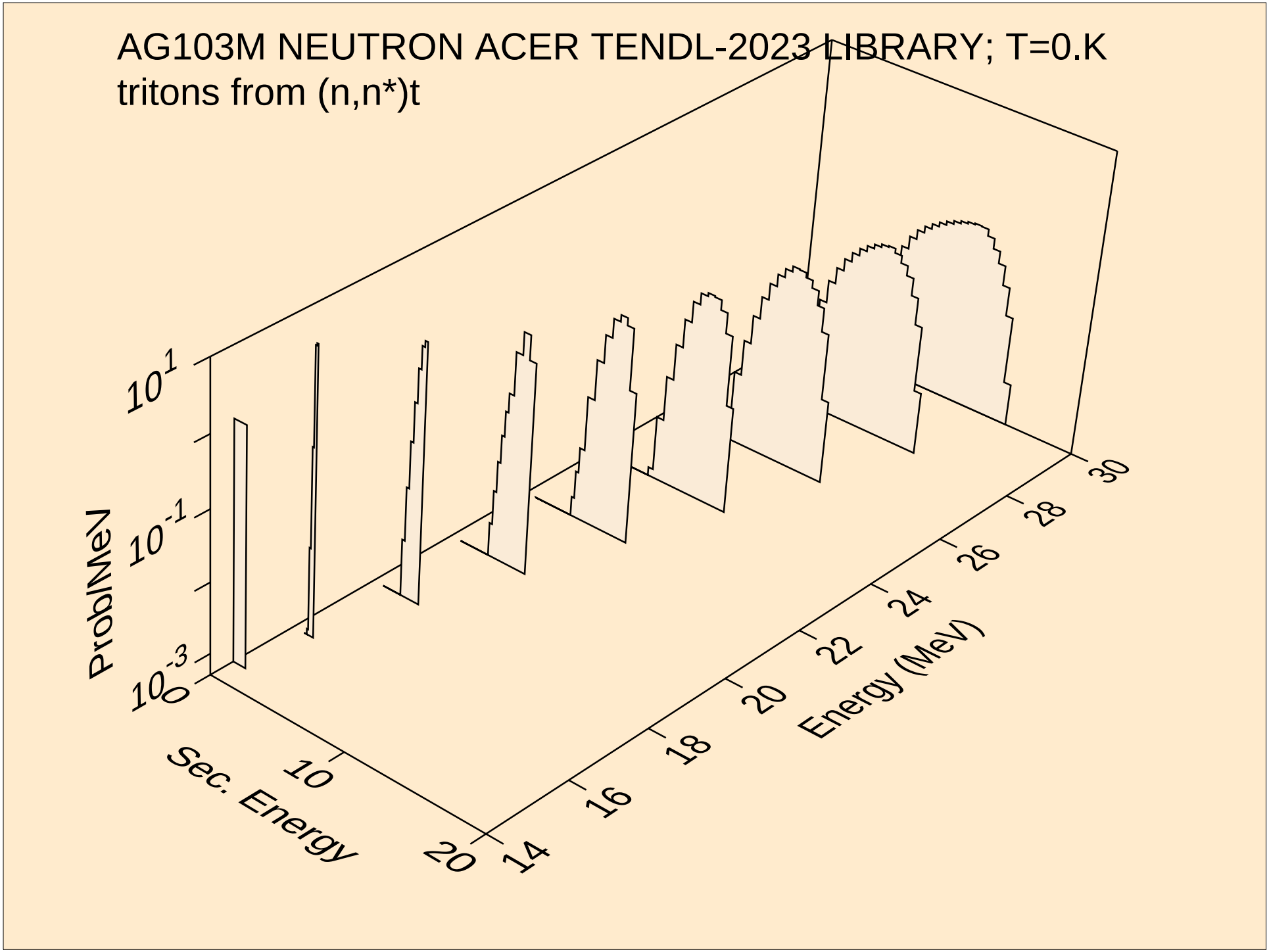

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,n*)d
Prob/MeV
10^1
10^-1
10^-3
0
10
20
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

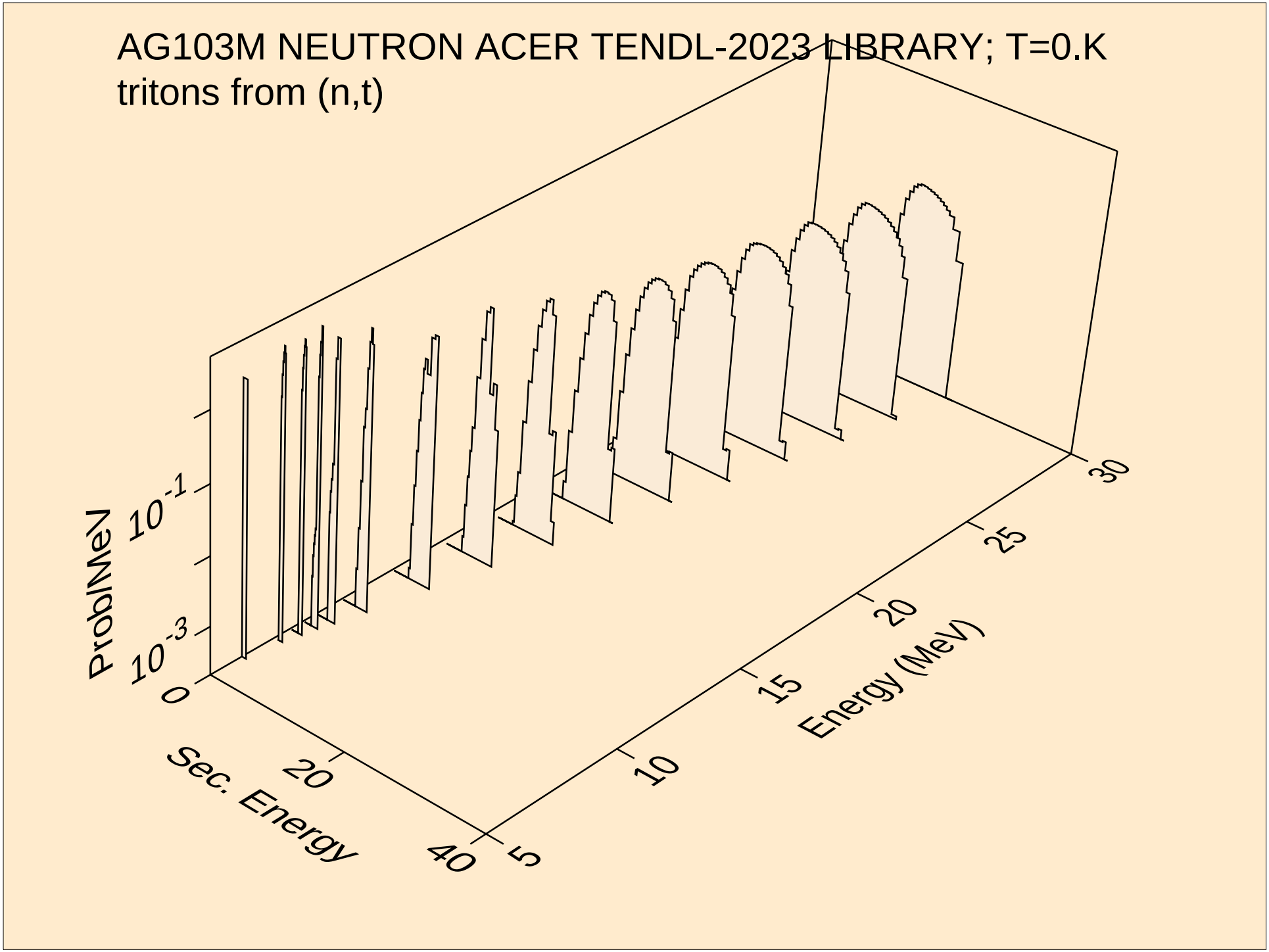

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,d)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

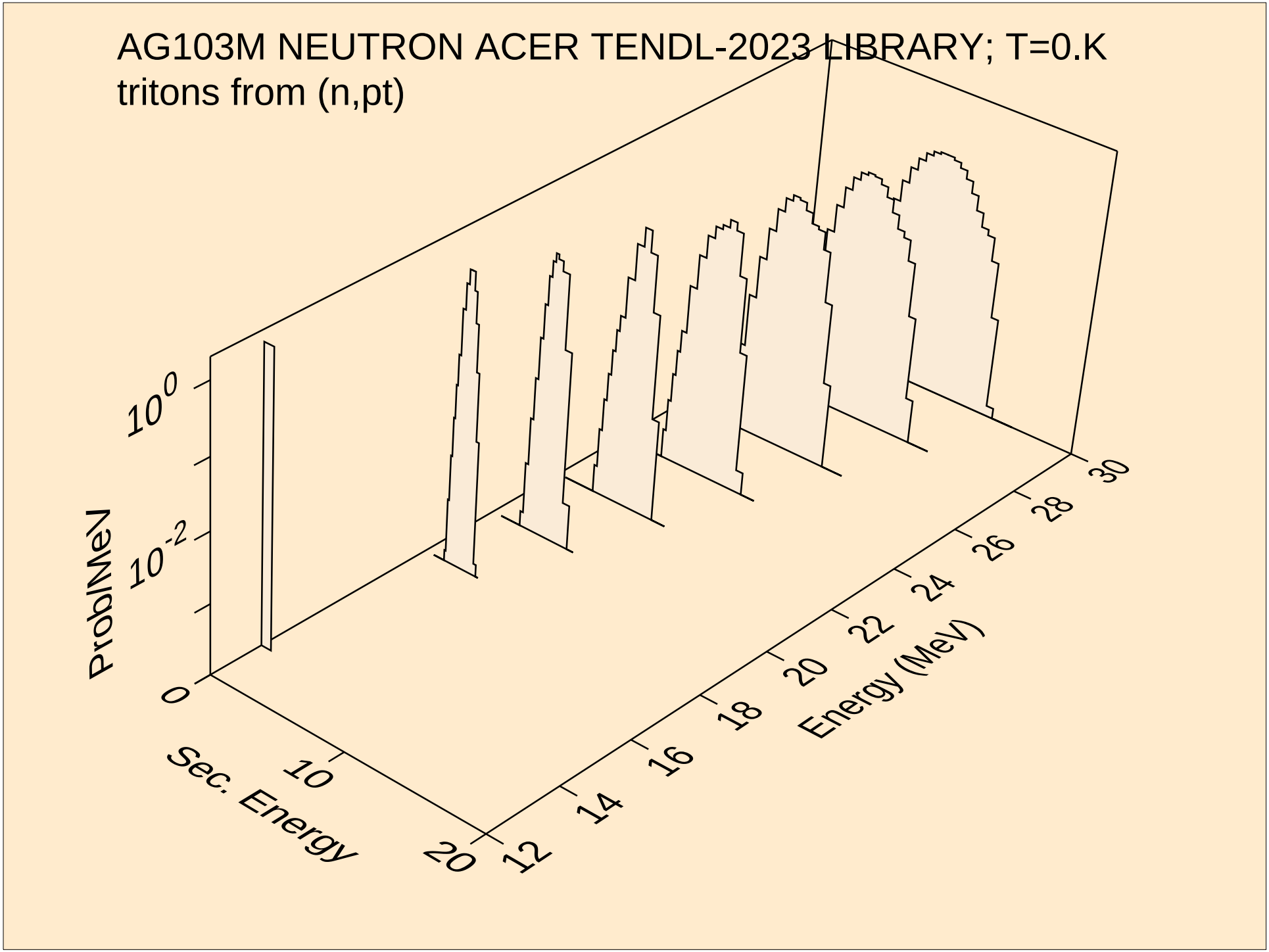

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,pd)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

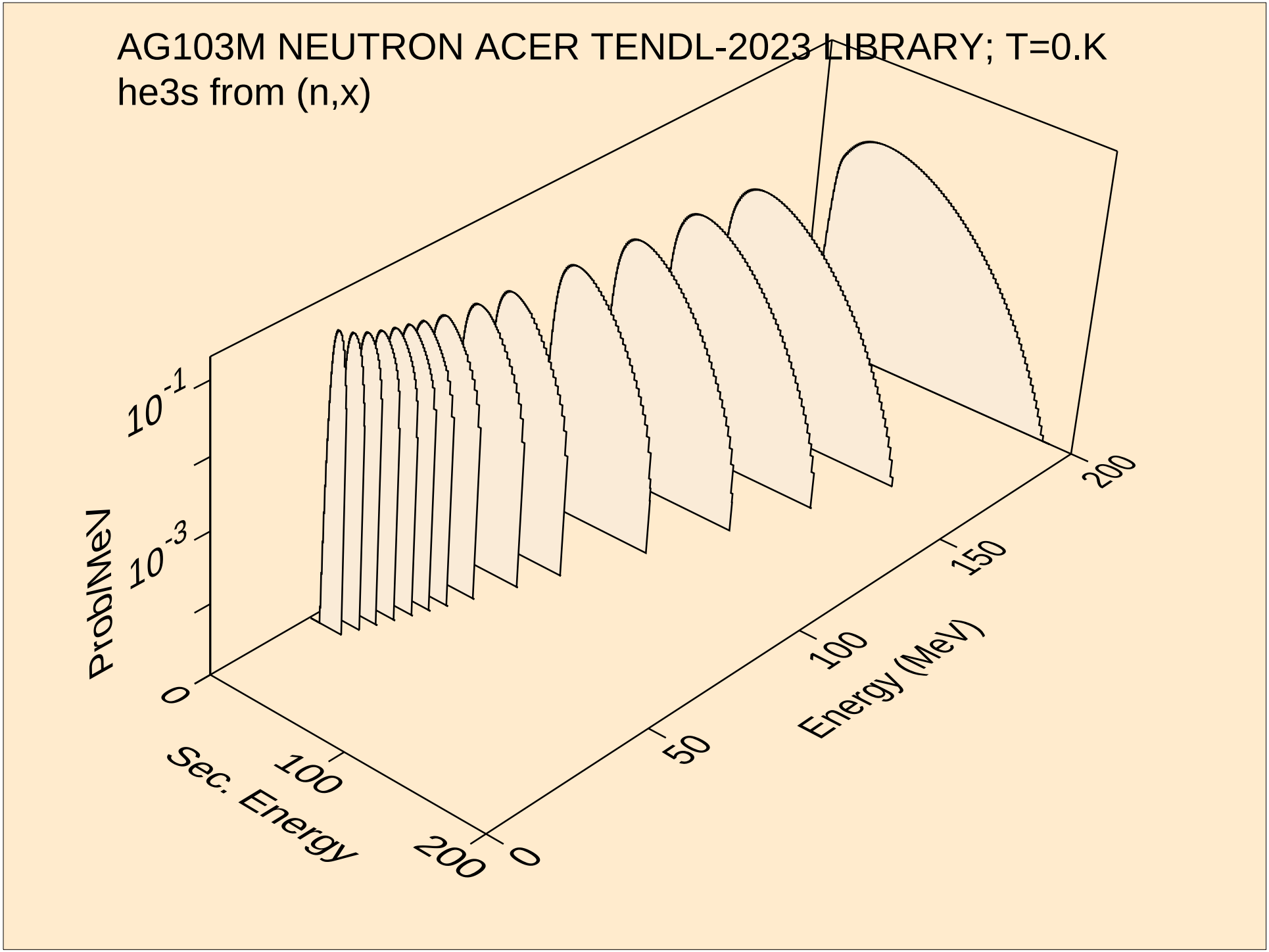

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,da)
Prob/MeV
10^{0}
10^{-2}
0
10
Sec. Energy
20
0
5
10
15
20
25
30
Energy (MeV)

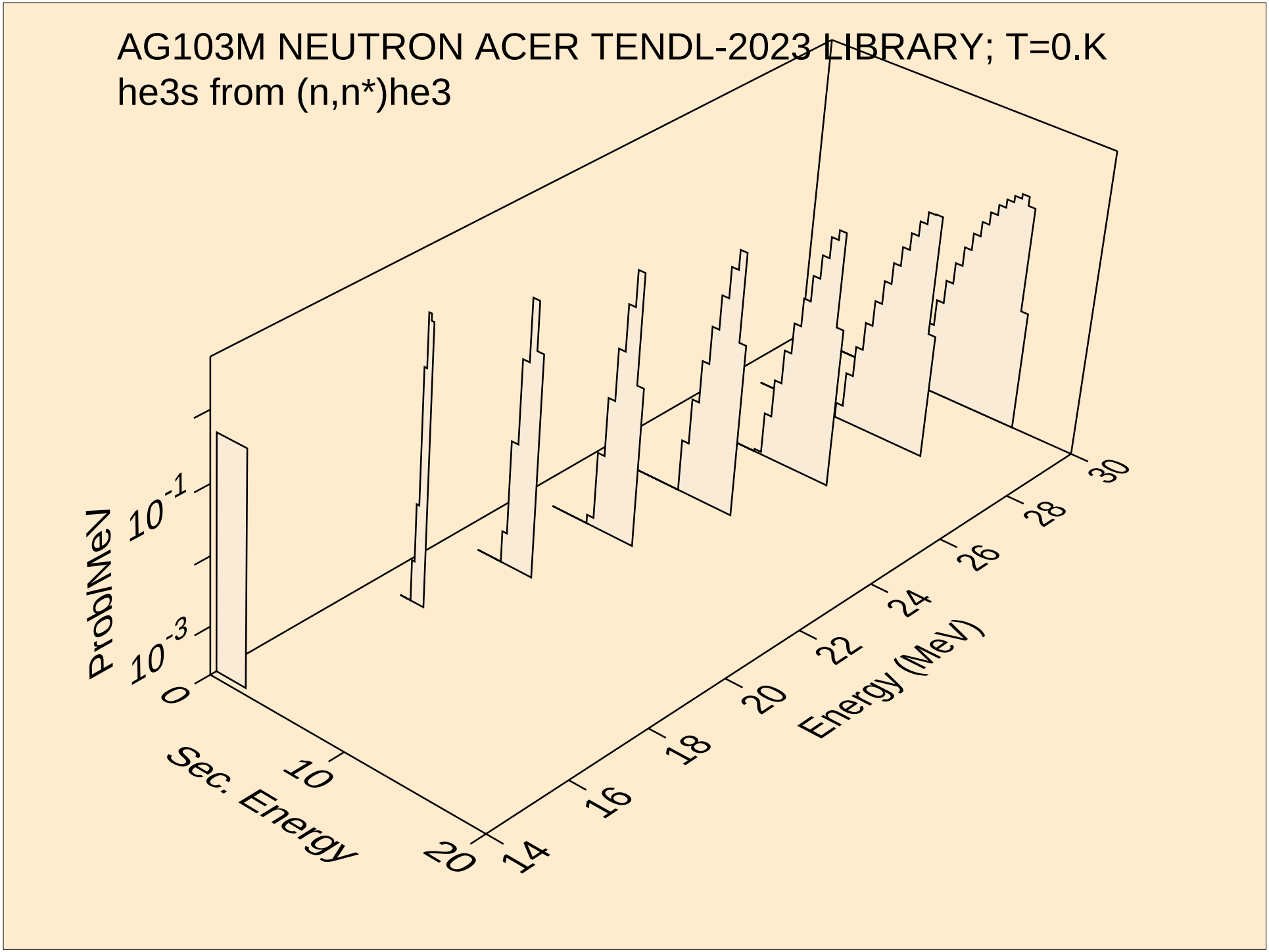

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,x)
Prob/MeV
10-1
10-3
10-5
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

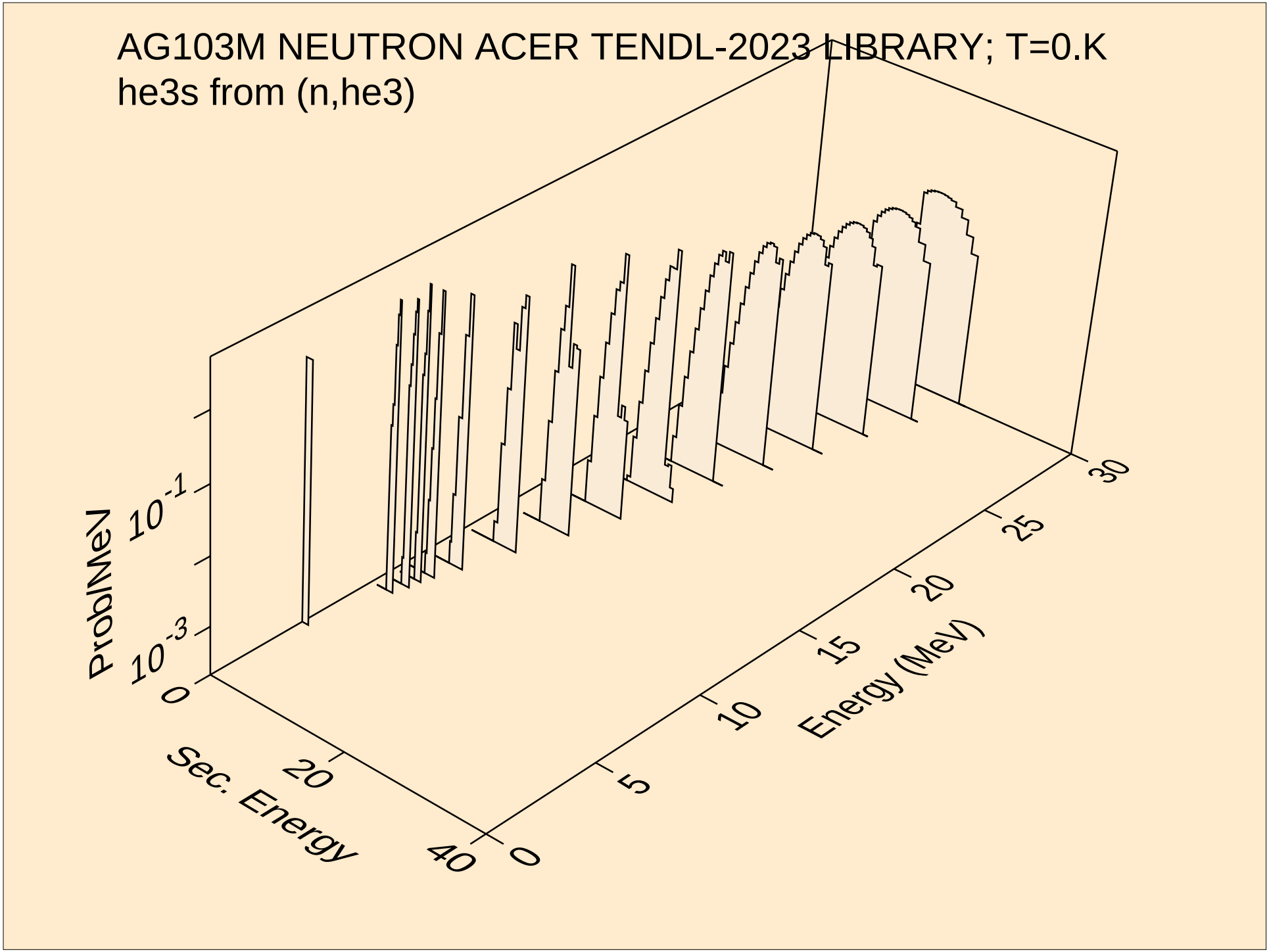

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,n*)t
Prob/MeV
10^1
10^-1
10^-3
0
10
20
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

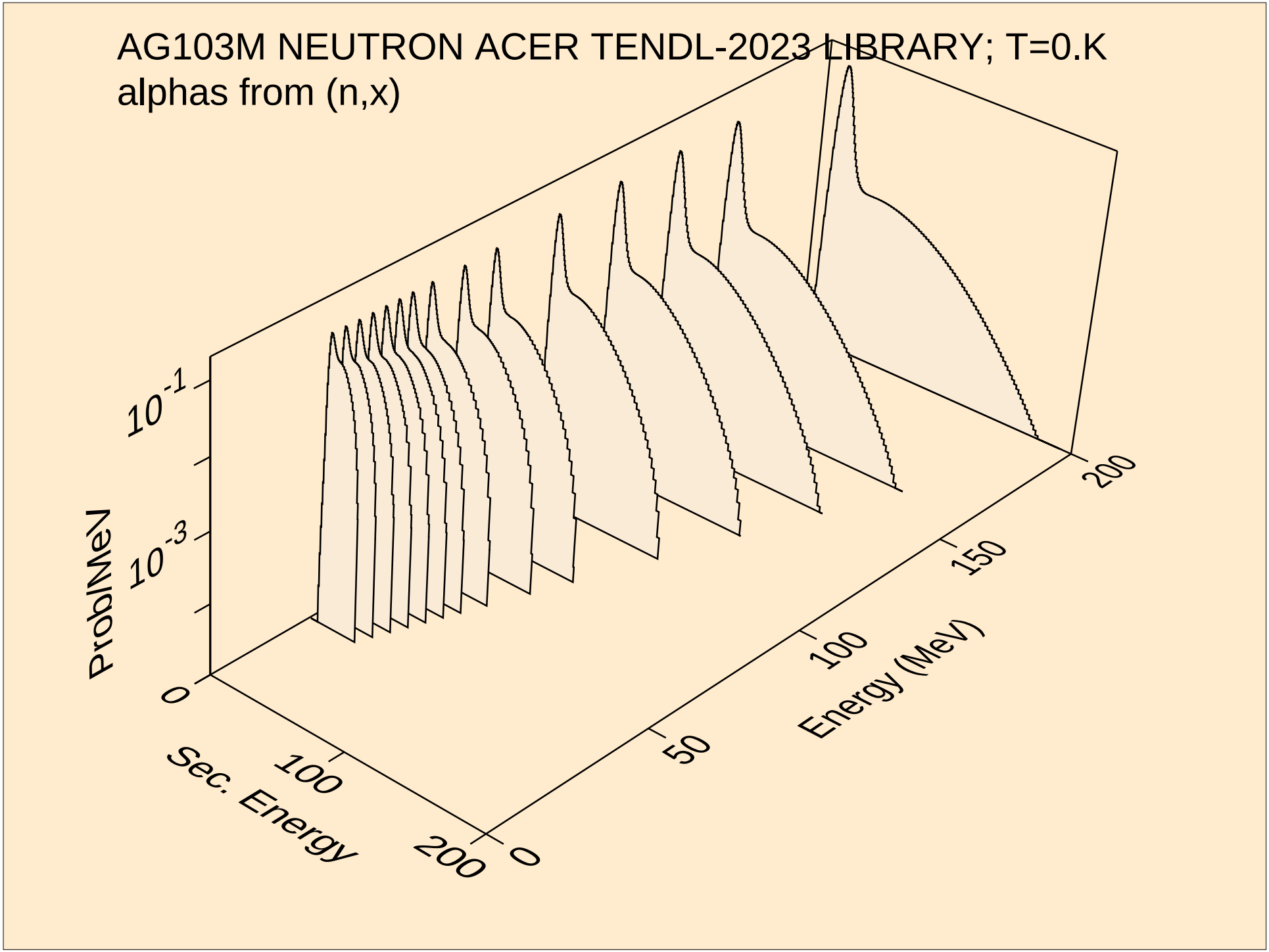

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,t)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
5
10
15
20
25
30
Energy (MeV)

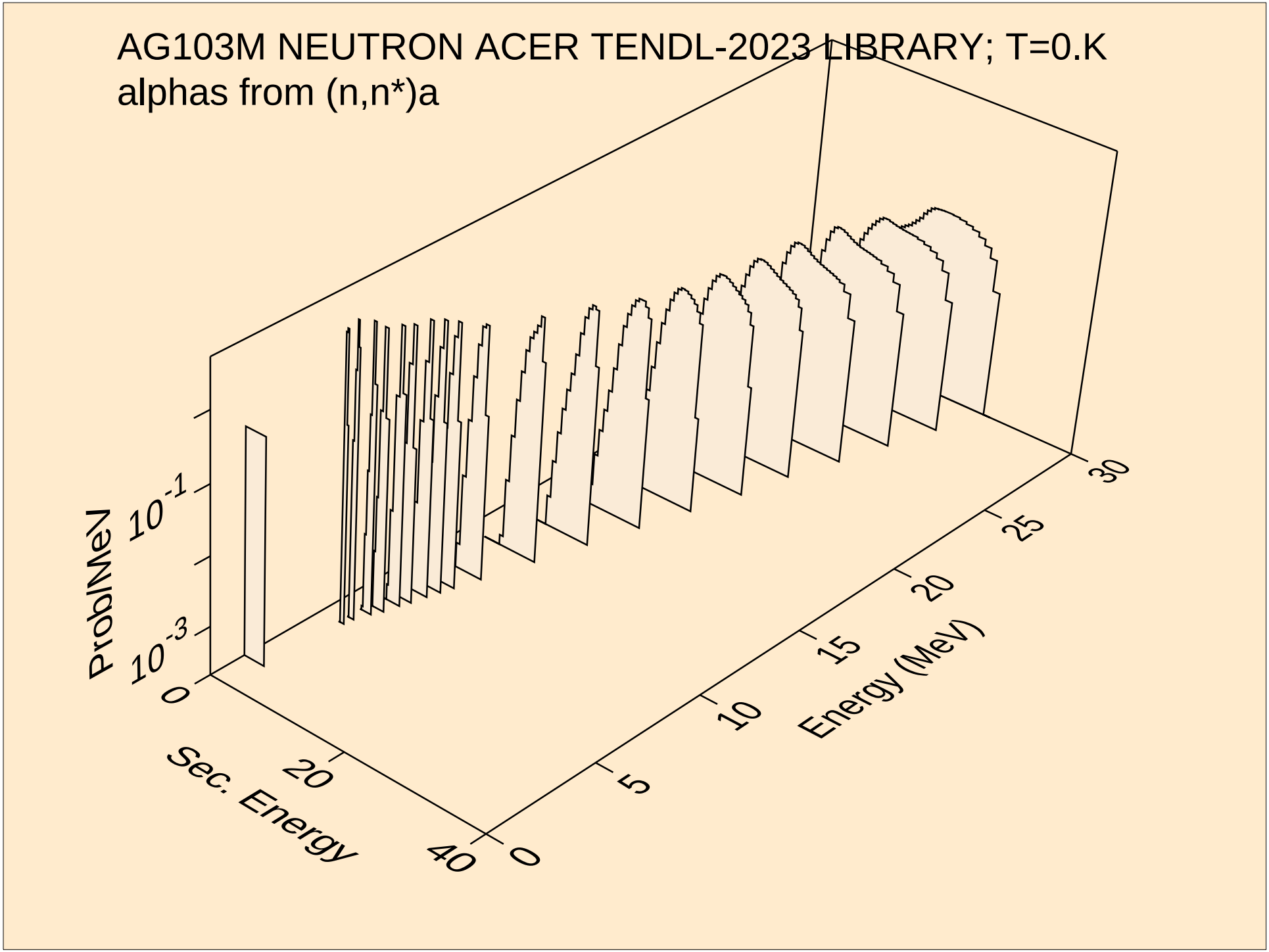

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,pt)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
Energy (MeV)
12
14
16
18
20
22
24
26
28
30

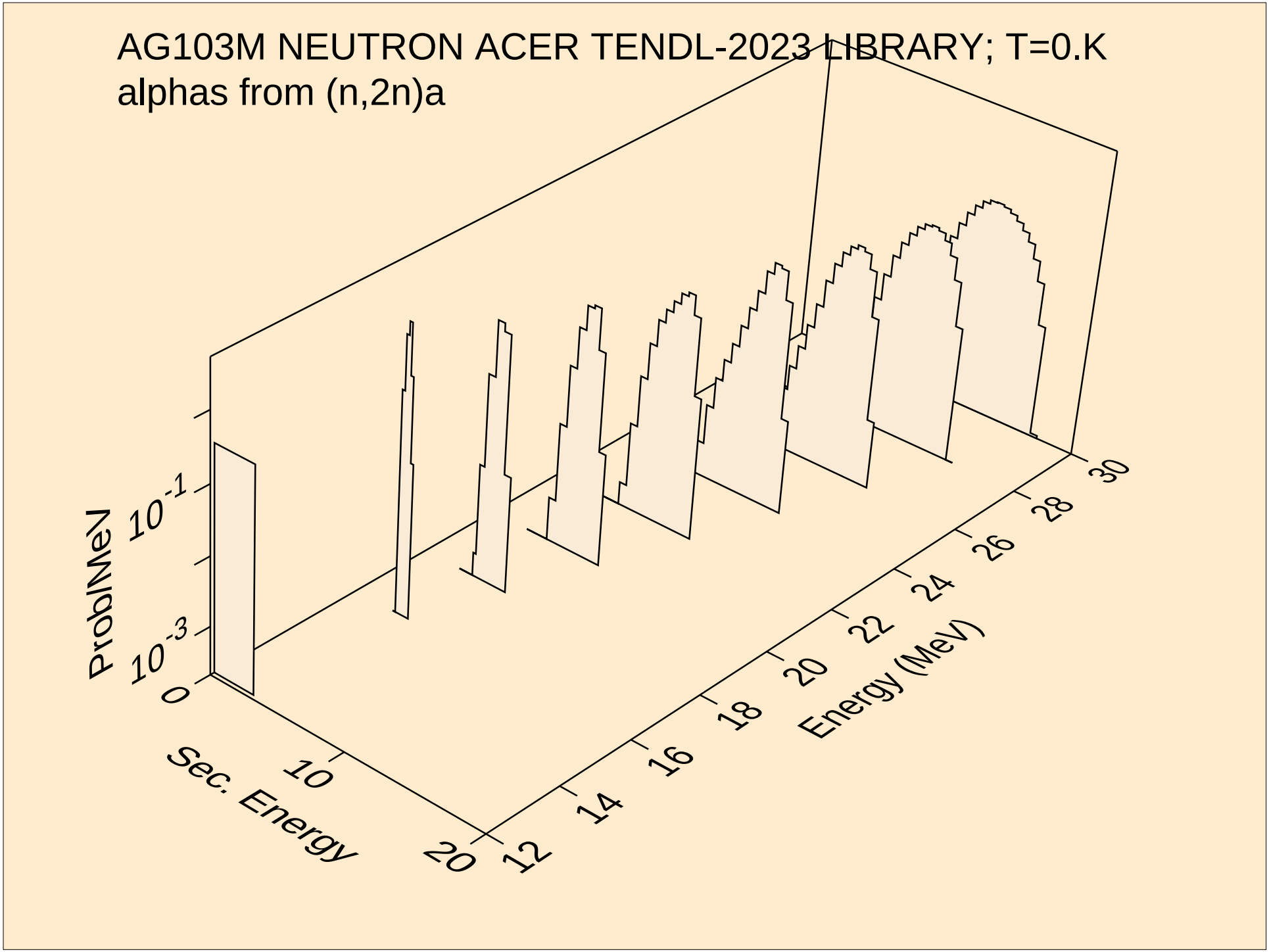

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

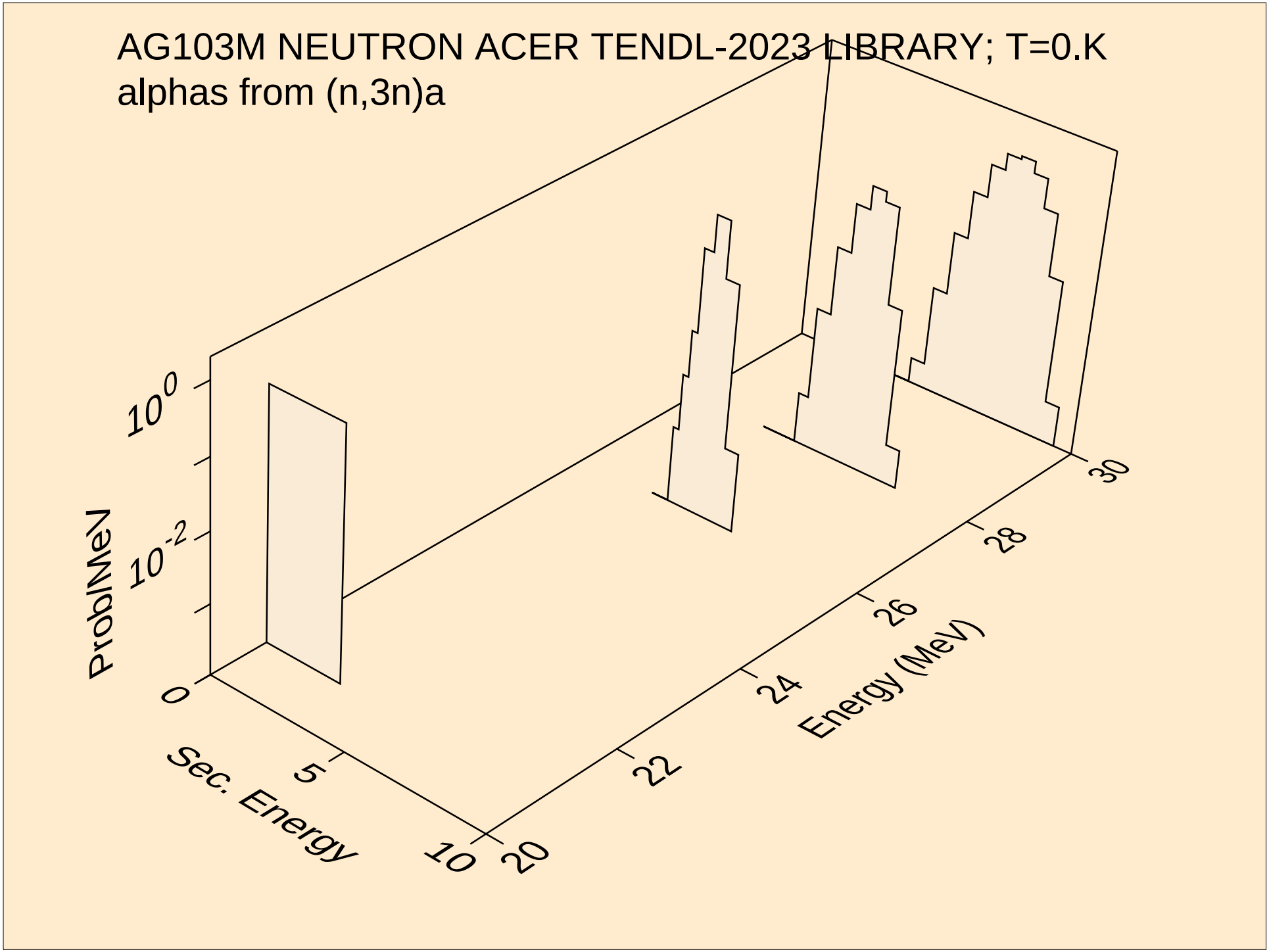

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,n*)he3
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
14
16
18
20
22
24
26
28
30
Energy (MeV)

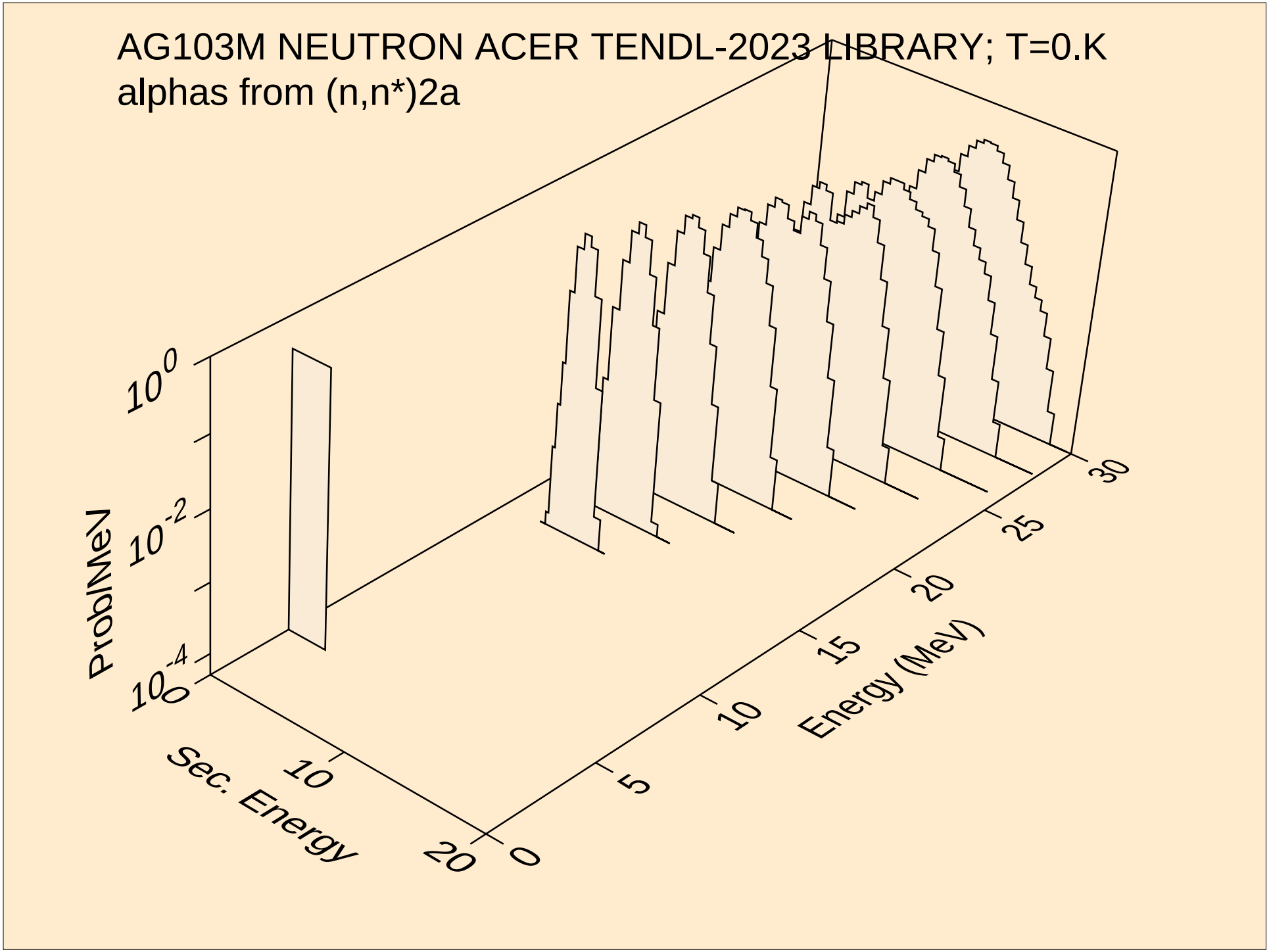

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,he3)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

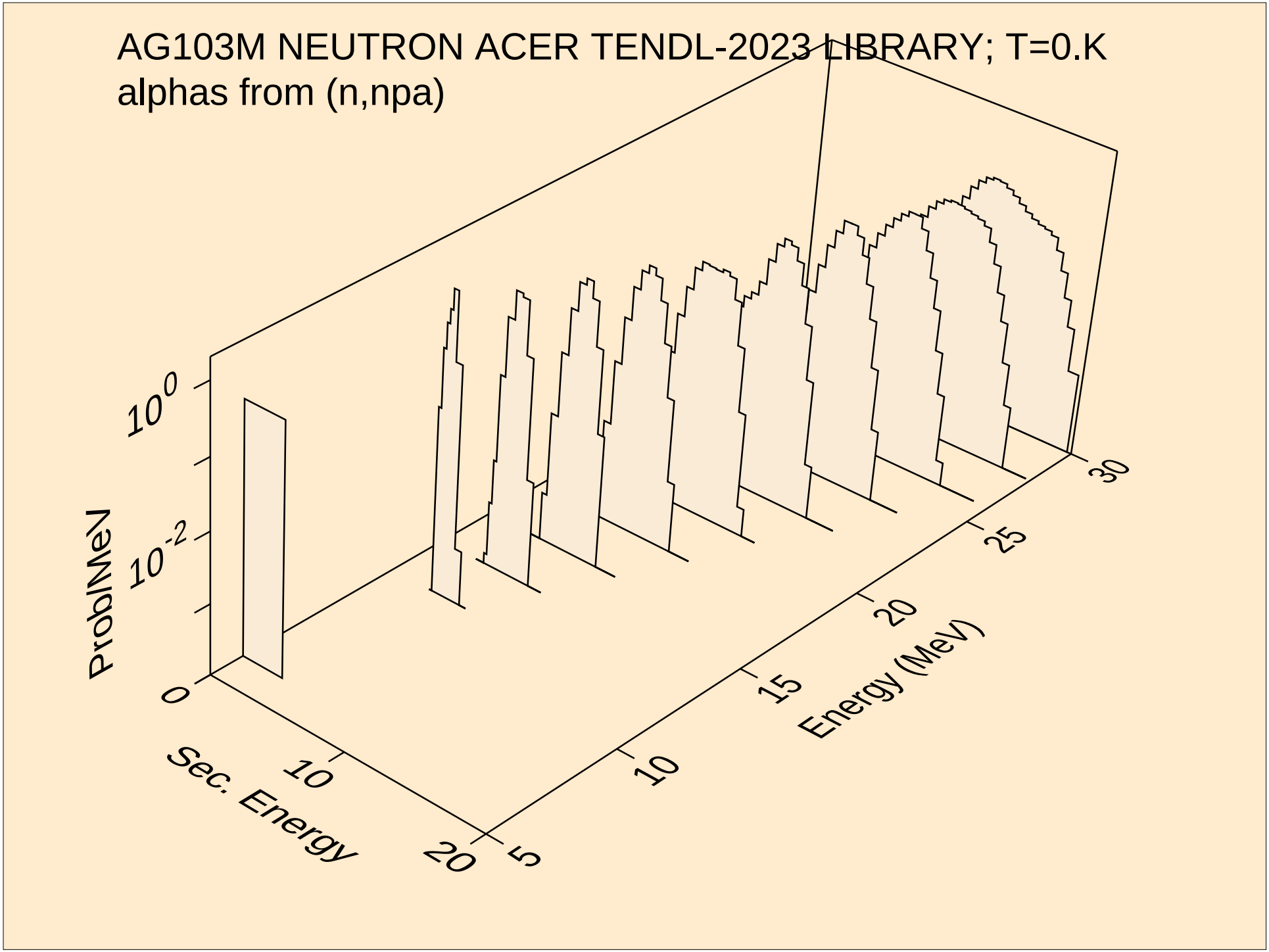

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

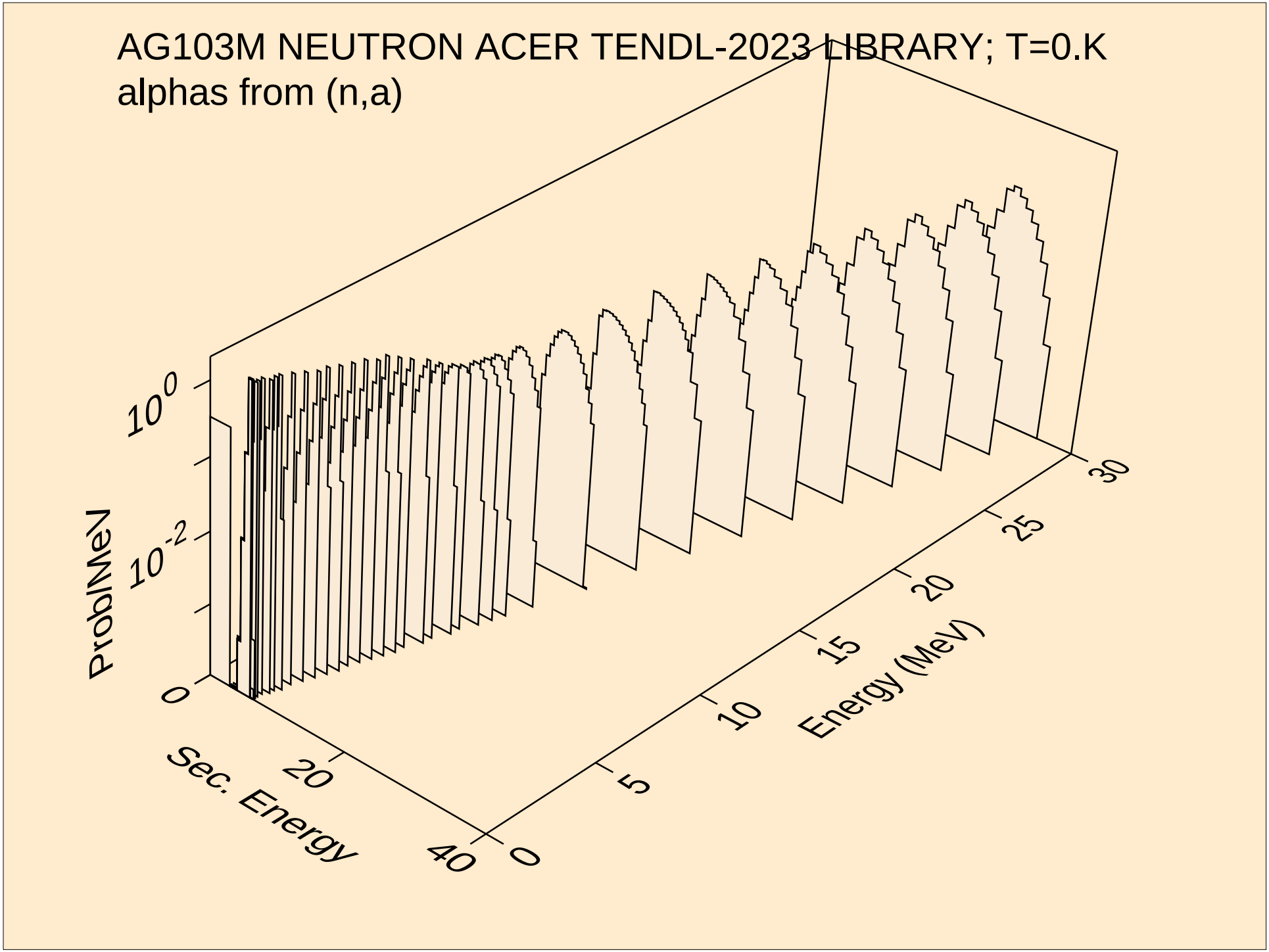

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,n*)a
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

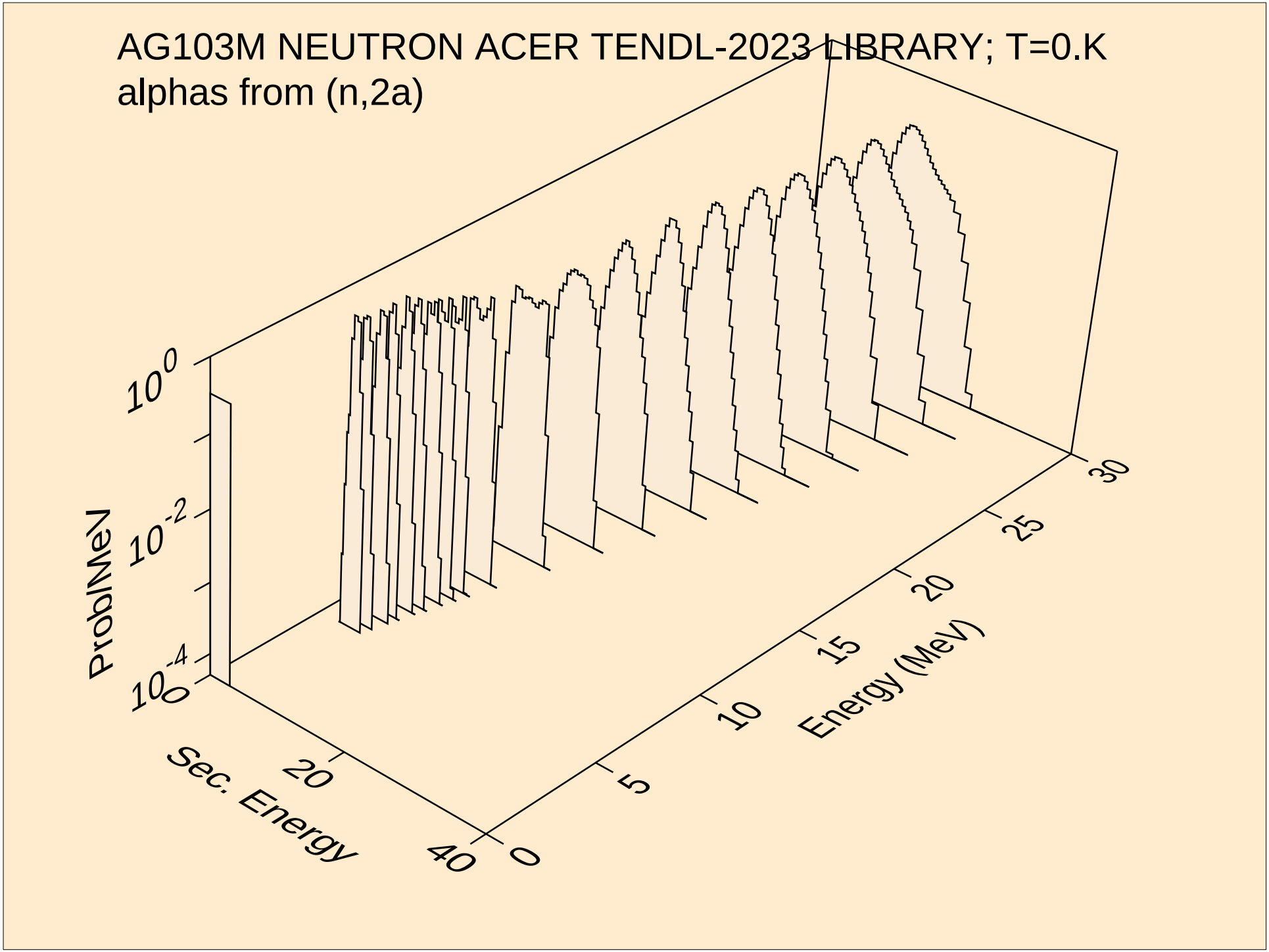

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2n)a
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

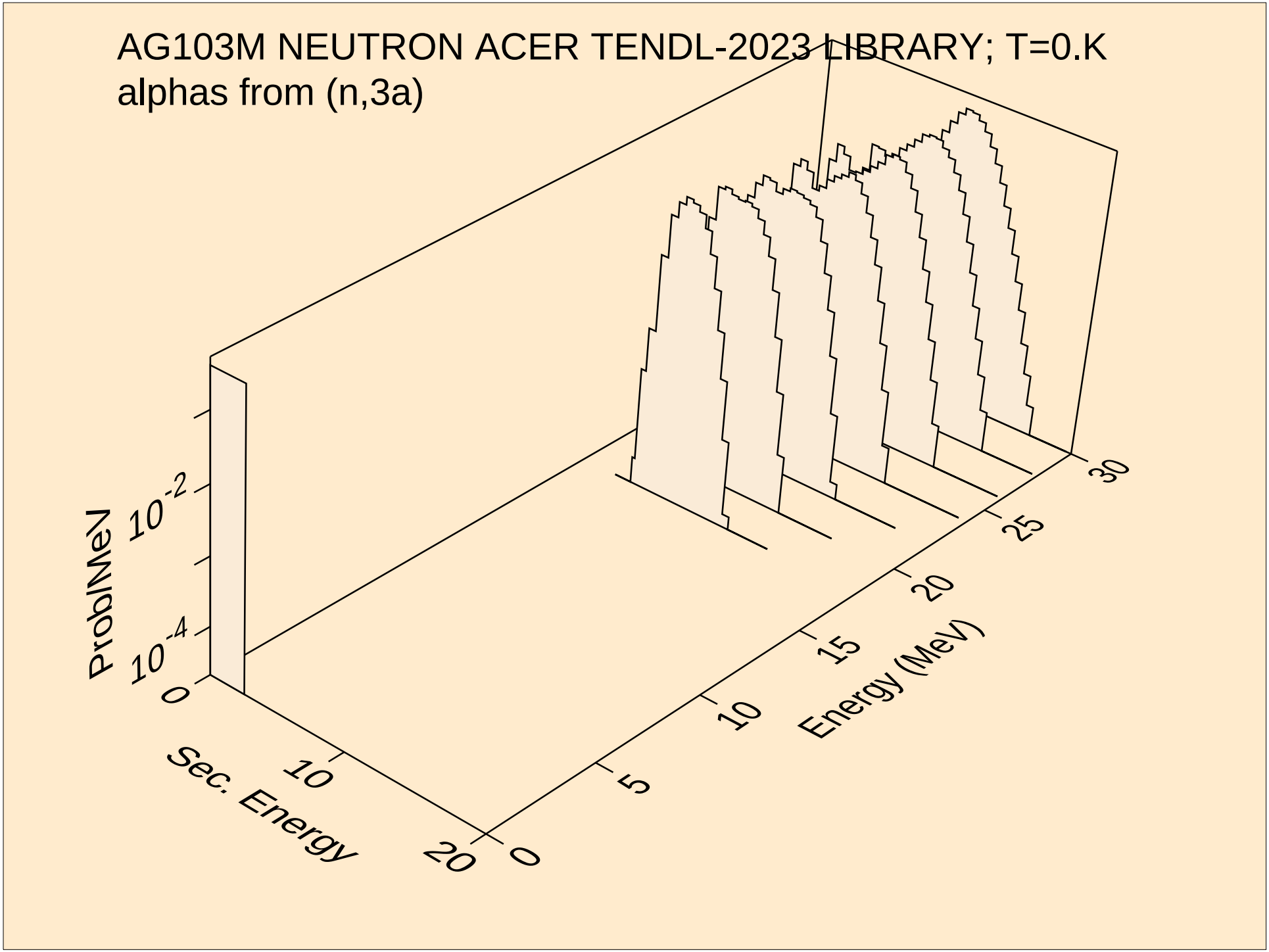

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,3n)a
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
5
10
20
22
24
Energy (MeV)
26
28
30

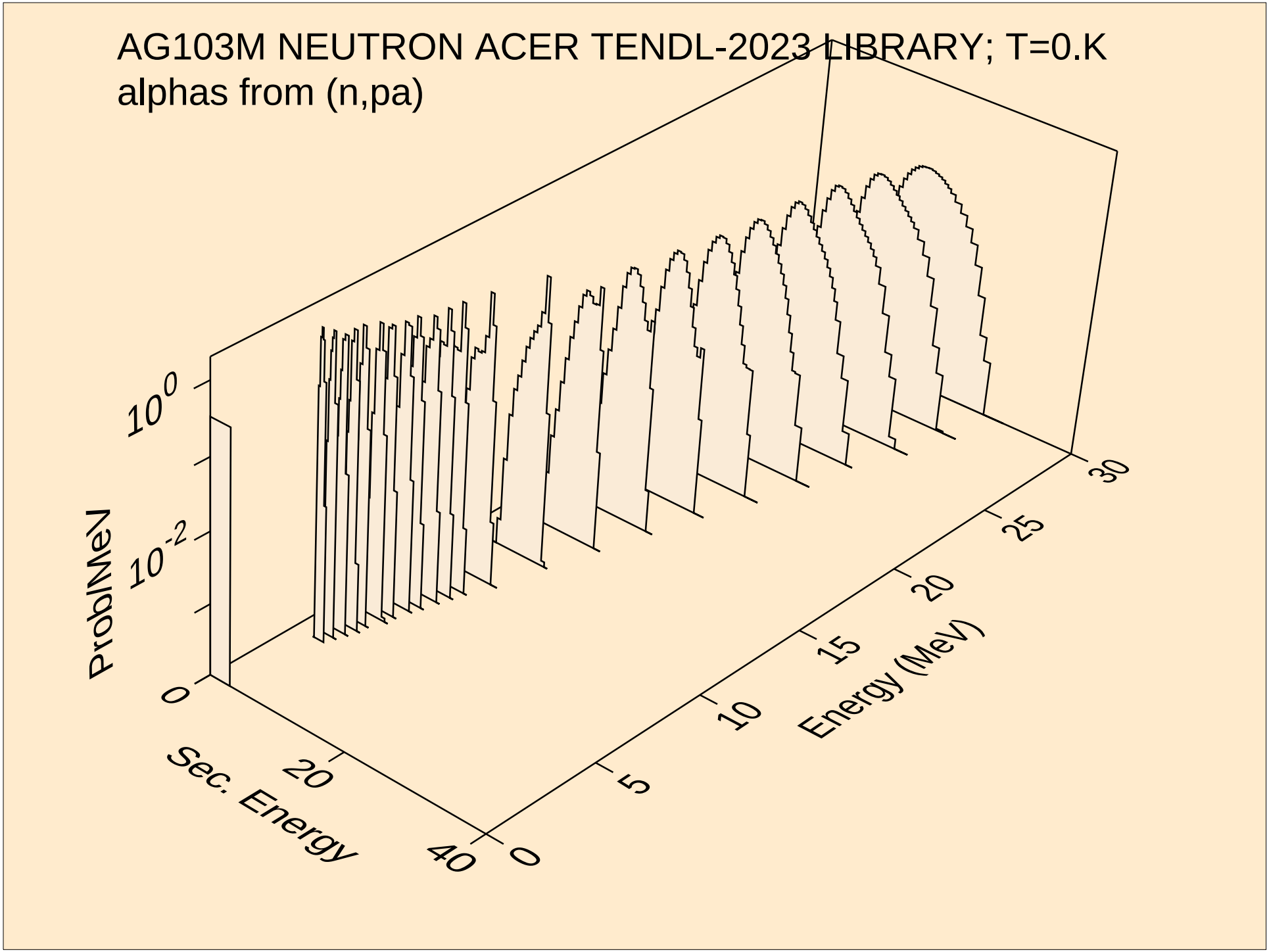

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,n*)2a
Prob/MeV
10^0
10^-2
10^-4
0
10
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

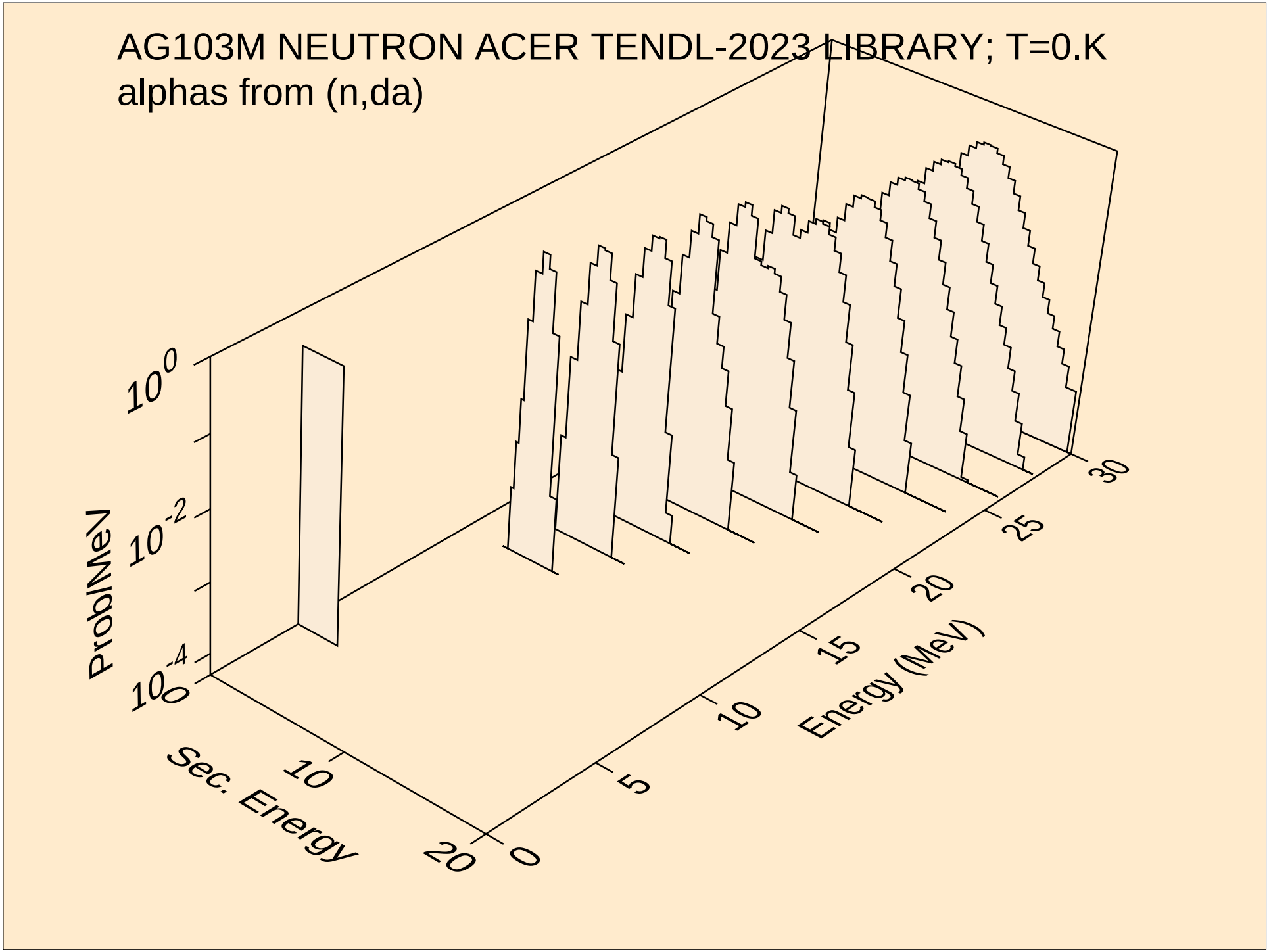

AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,npa)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)


AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,a)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)


AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2a)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
20
40
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,3a)
Prob/MeV
10-2
10-4
0
Sec. Energy
10
20
0
5
10
15
20
25
30
Energy (MeV)


AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,pa)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)


AG103M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,da)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)