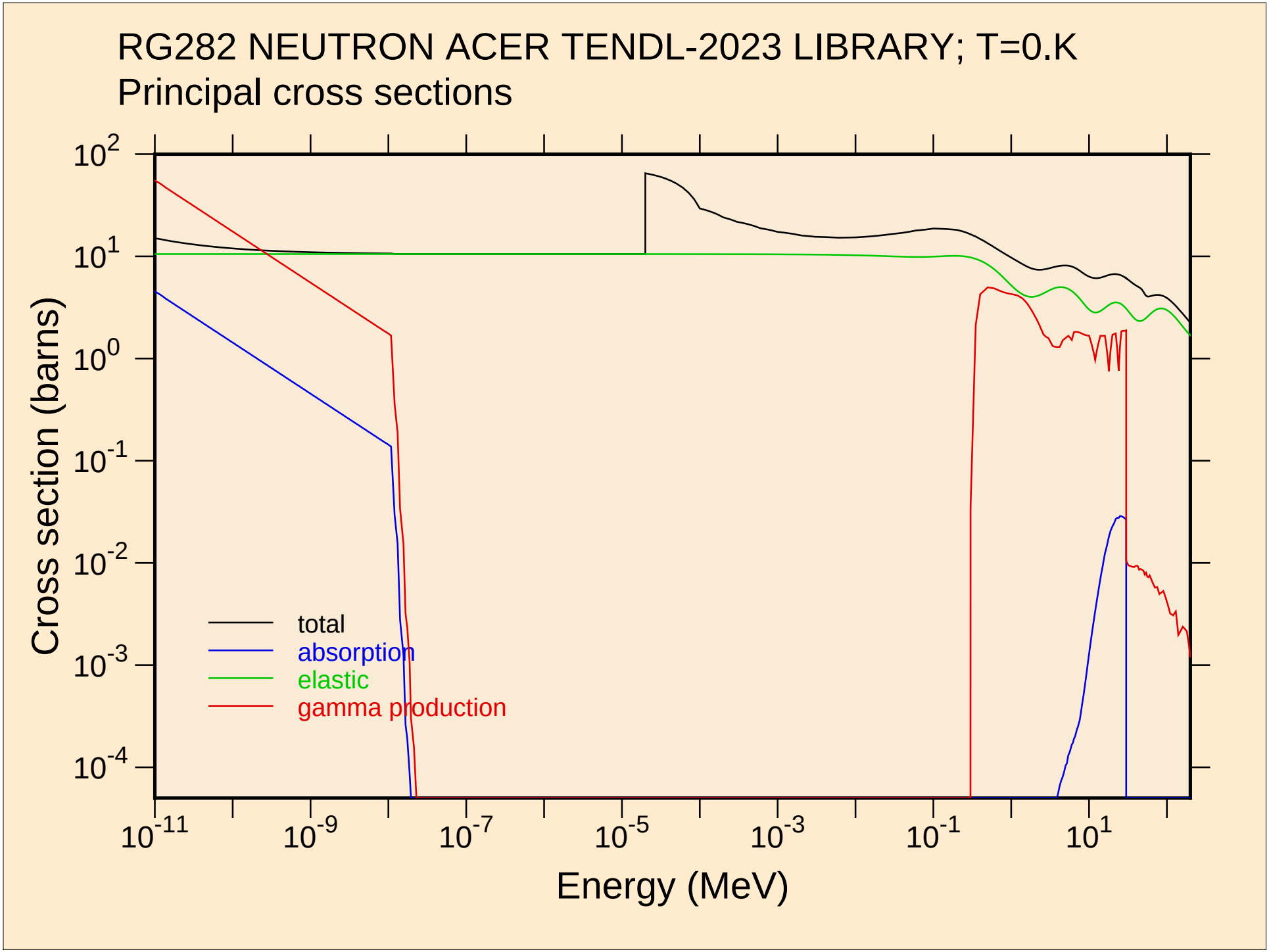
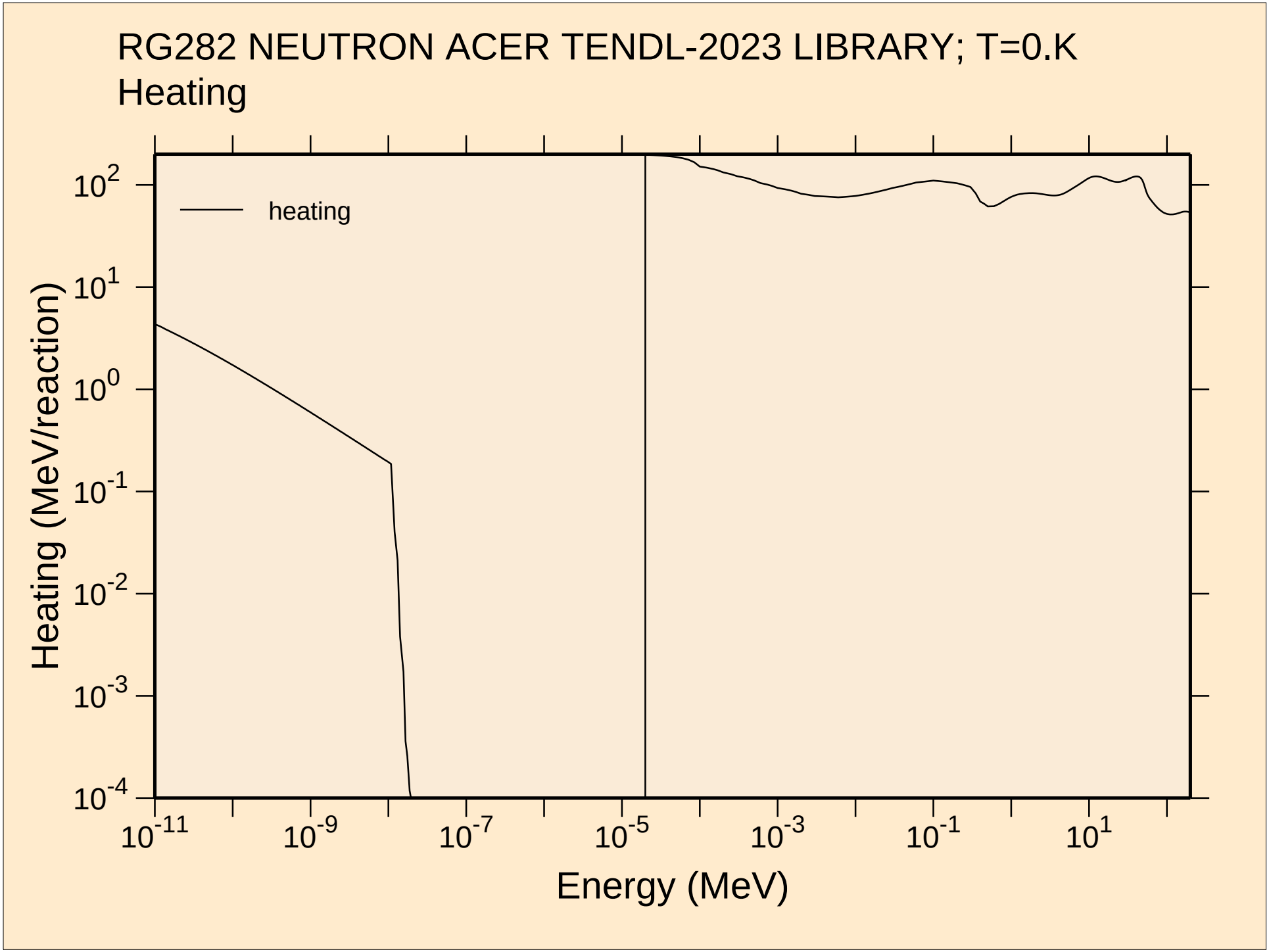
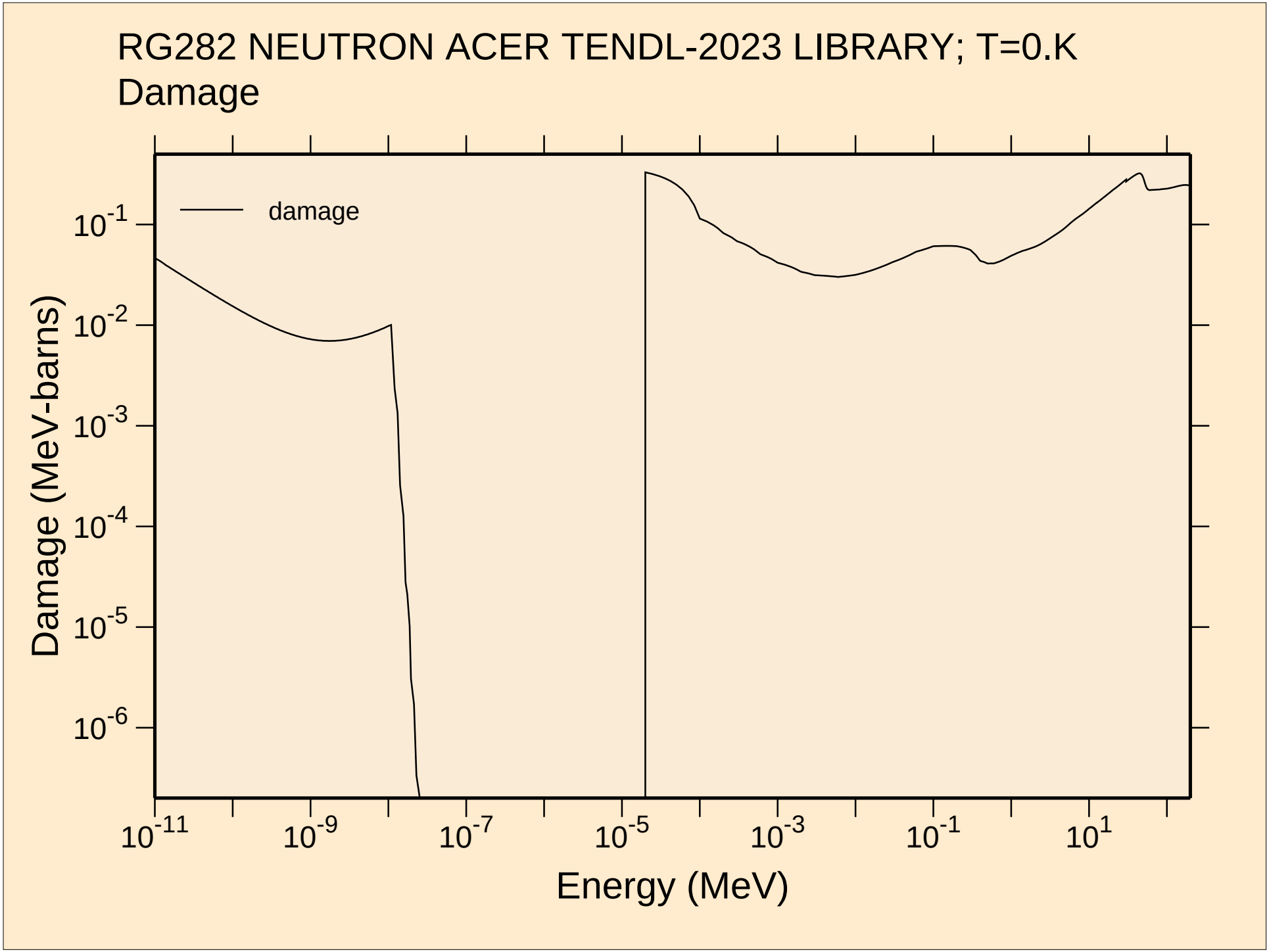
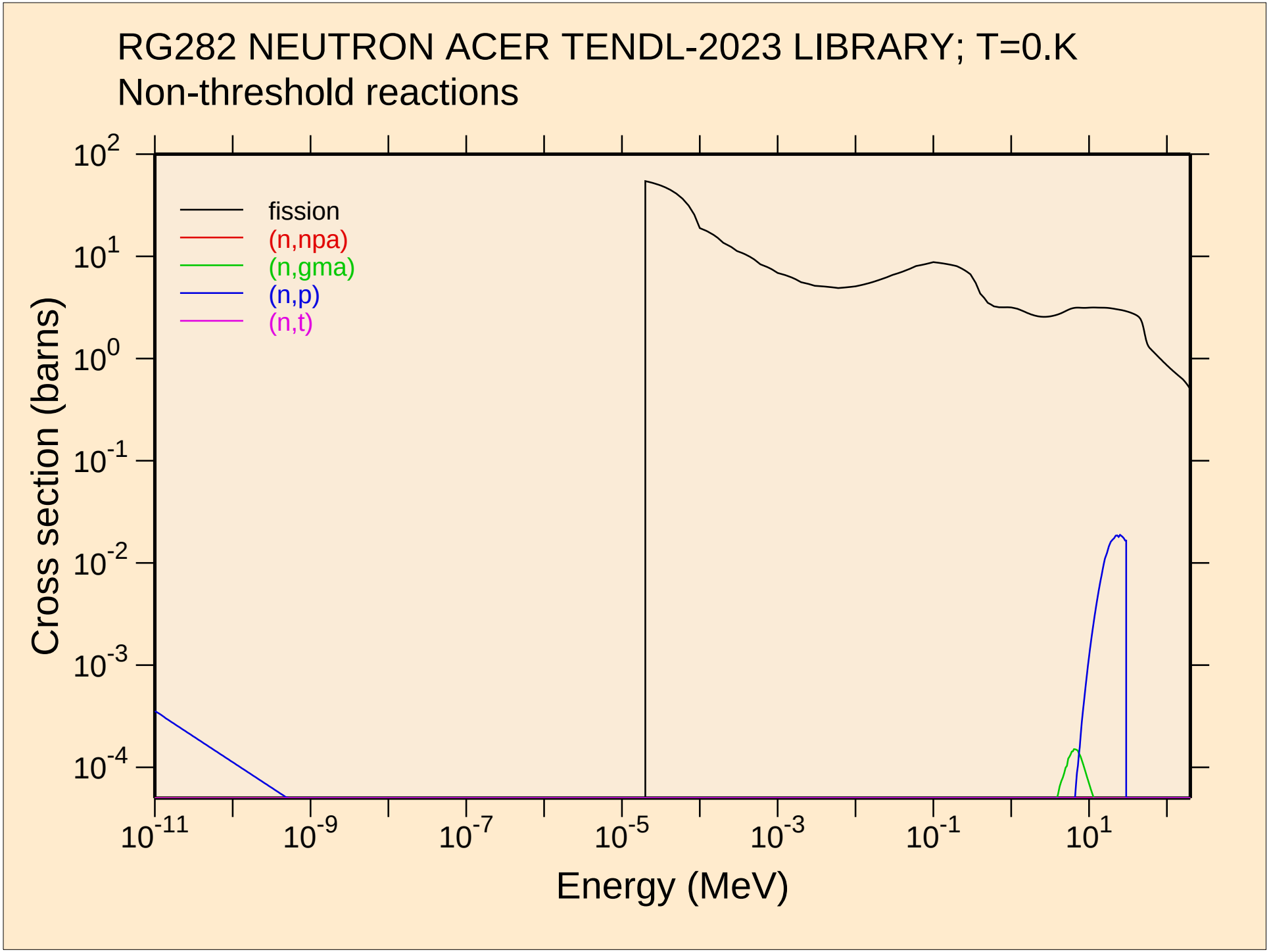
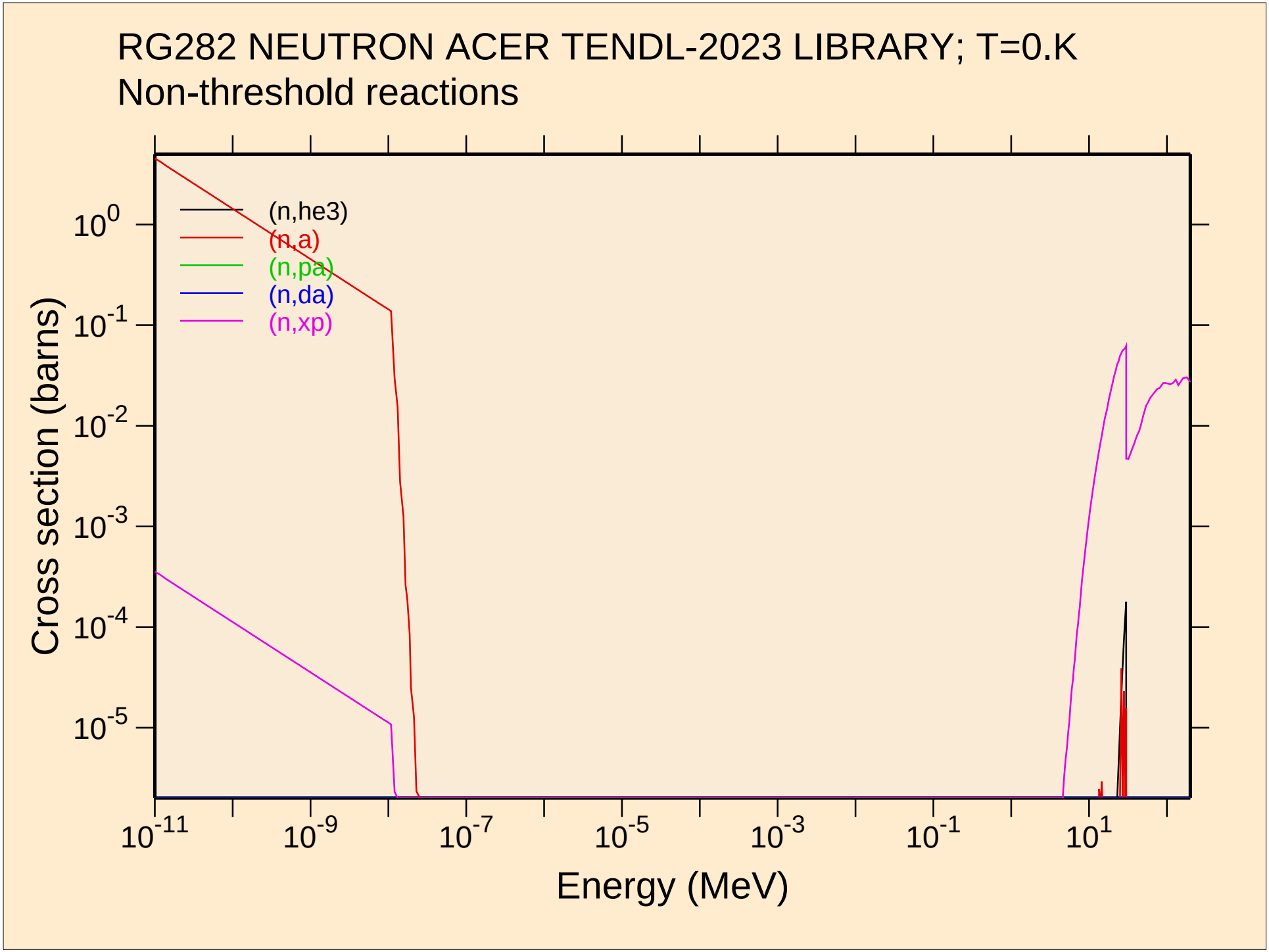
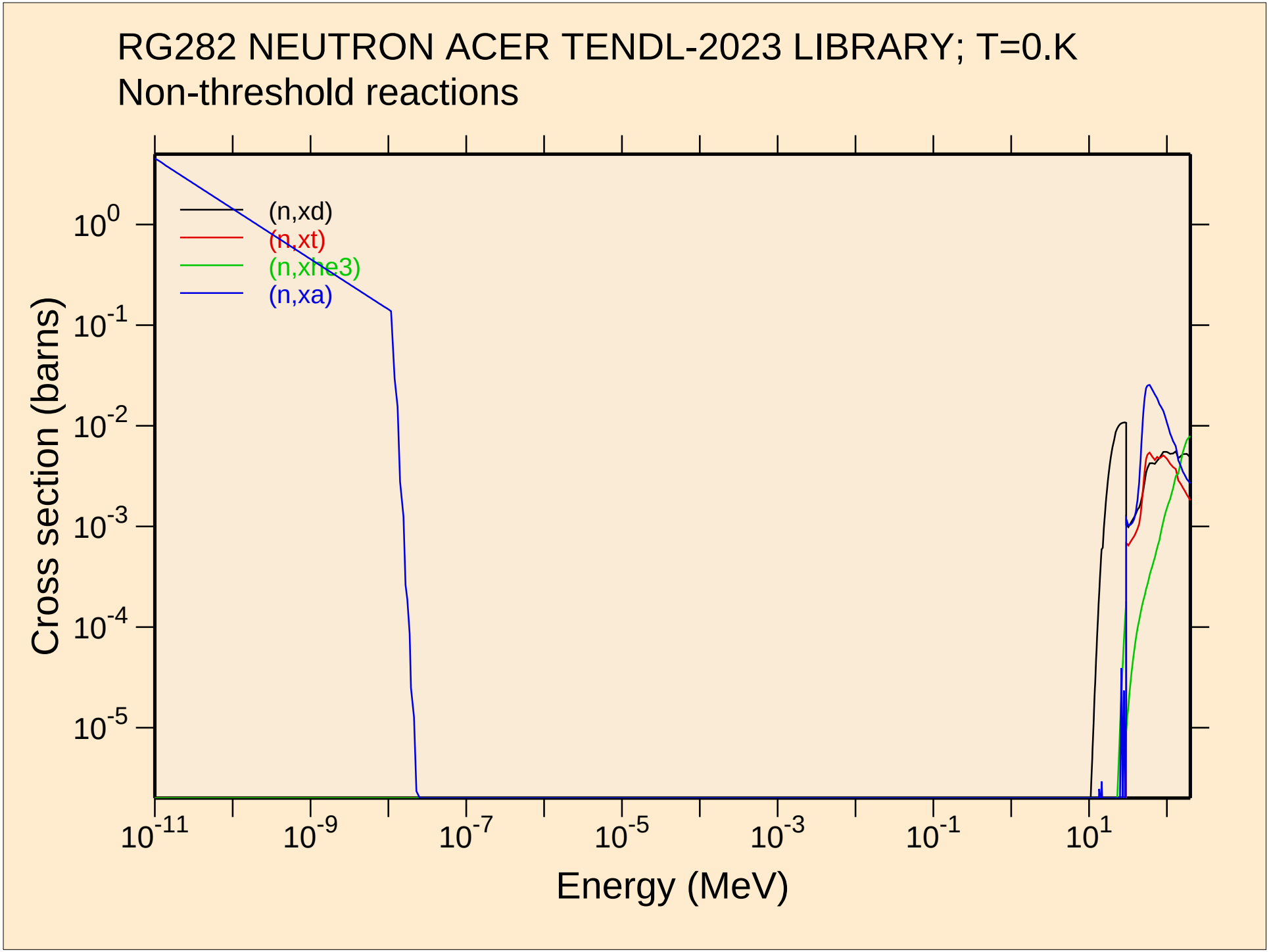

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production

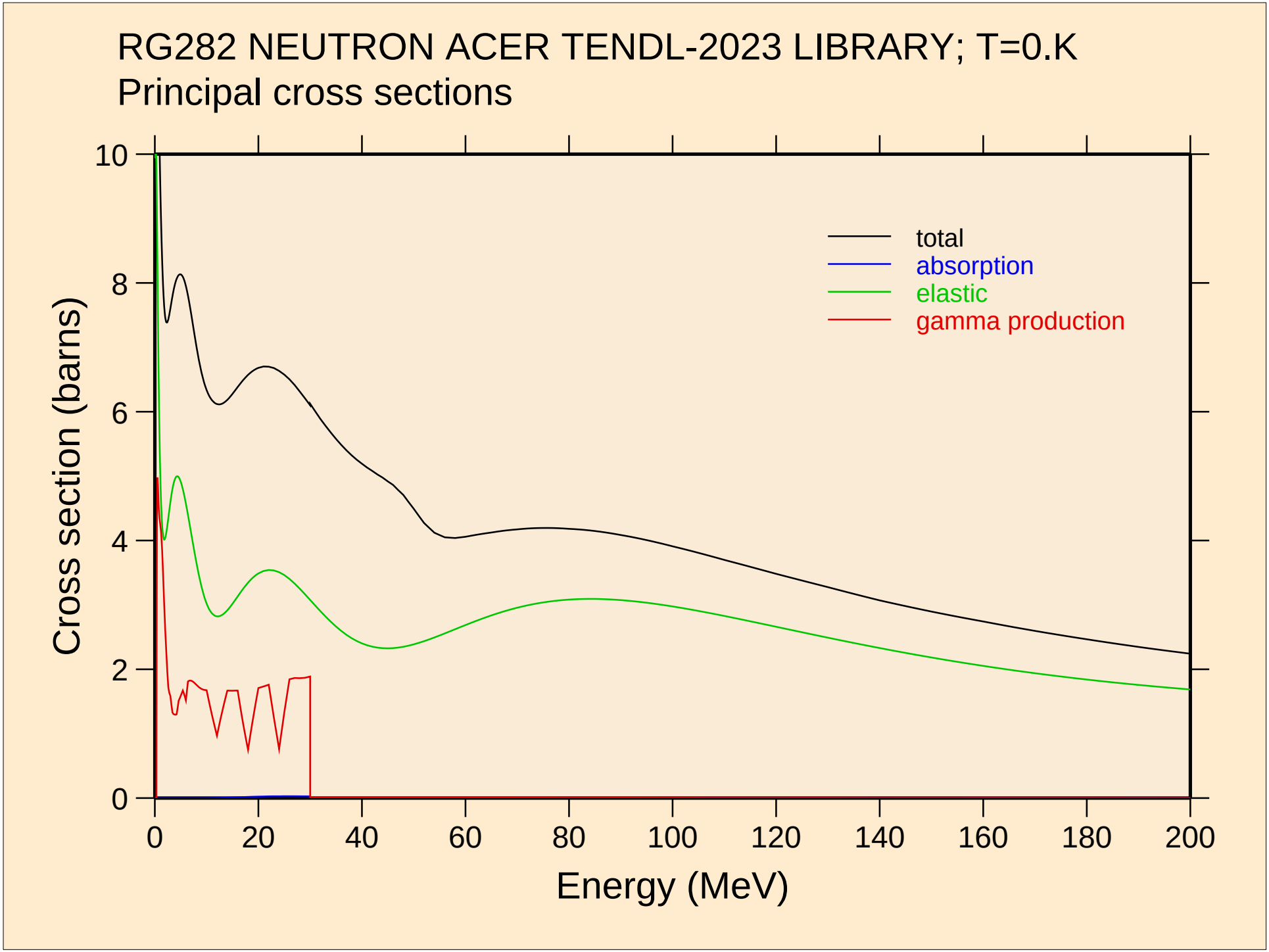

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

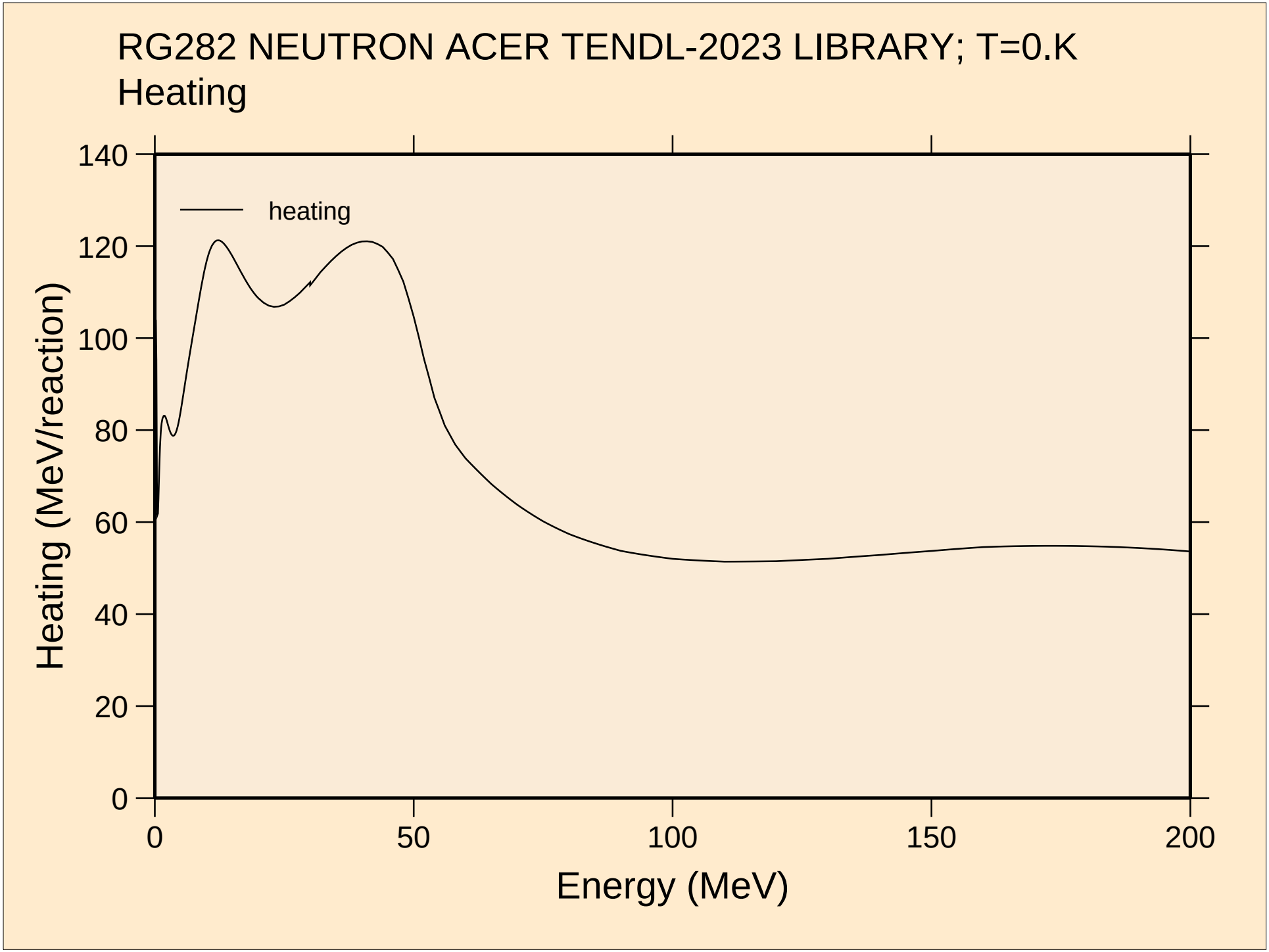

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Damage
damage
Damage (MeV-barns)
10-1
10-2
10-3
10-4
10-5
10-6
10-11
10-9
10-7
10-5
10-3
10-1
101
Energy (MeV)

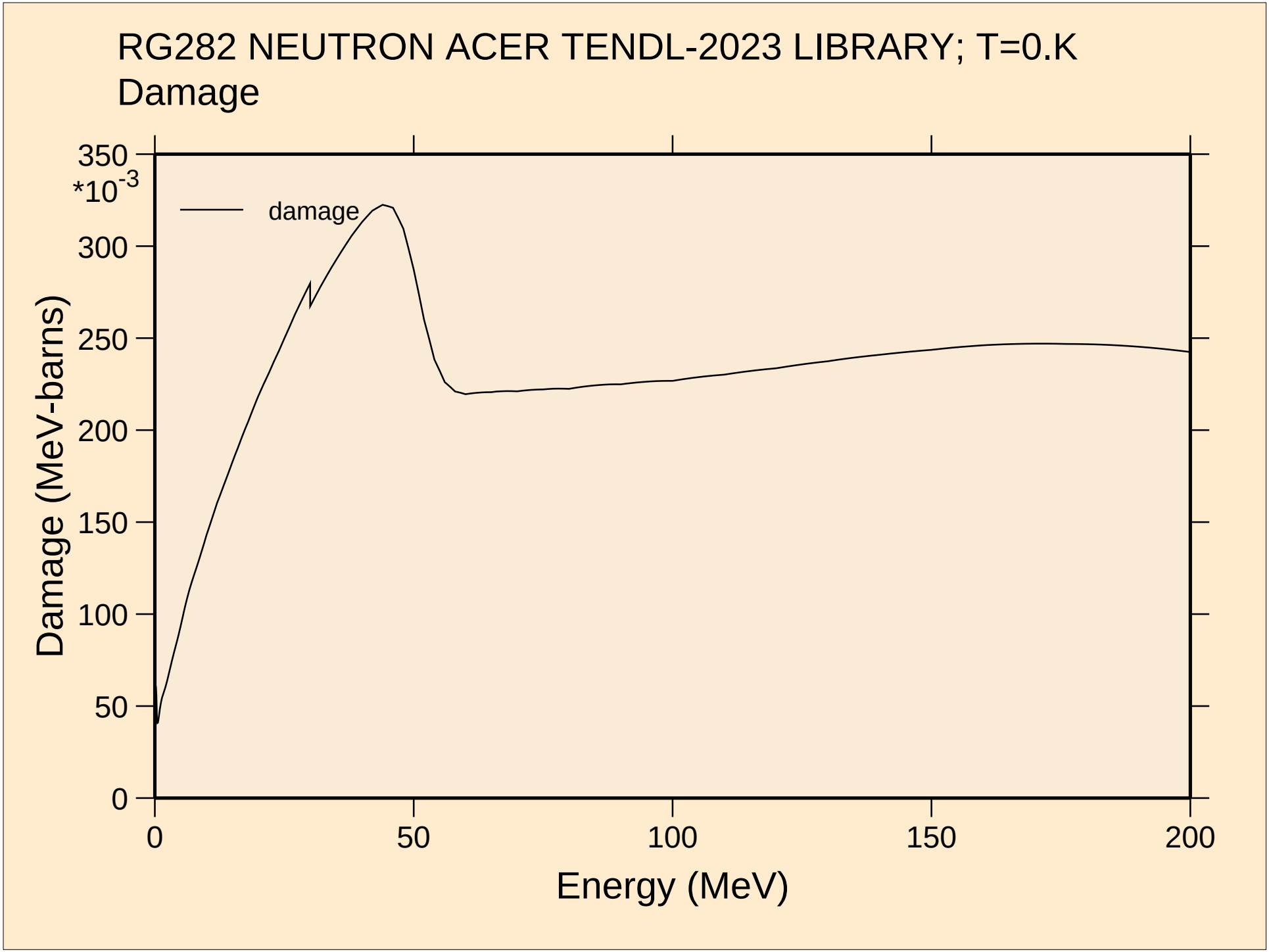

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
fission
(n,npa)
(n,gma)
(n,p)
(n,t)
Cross section (barns)
Energy (MeV)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

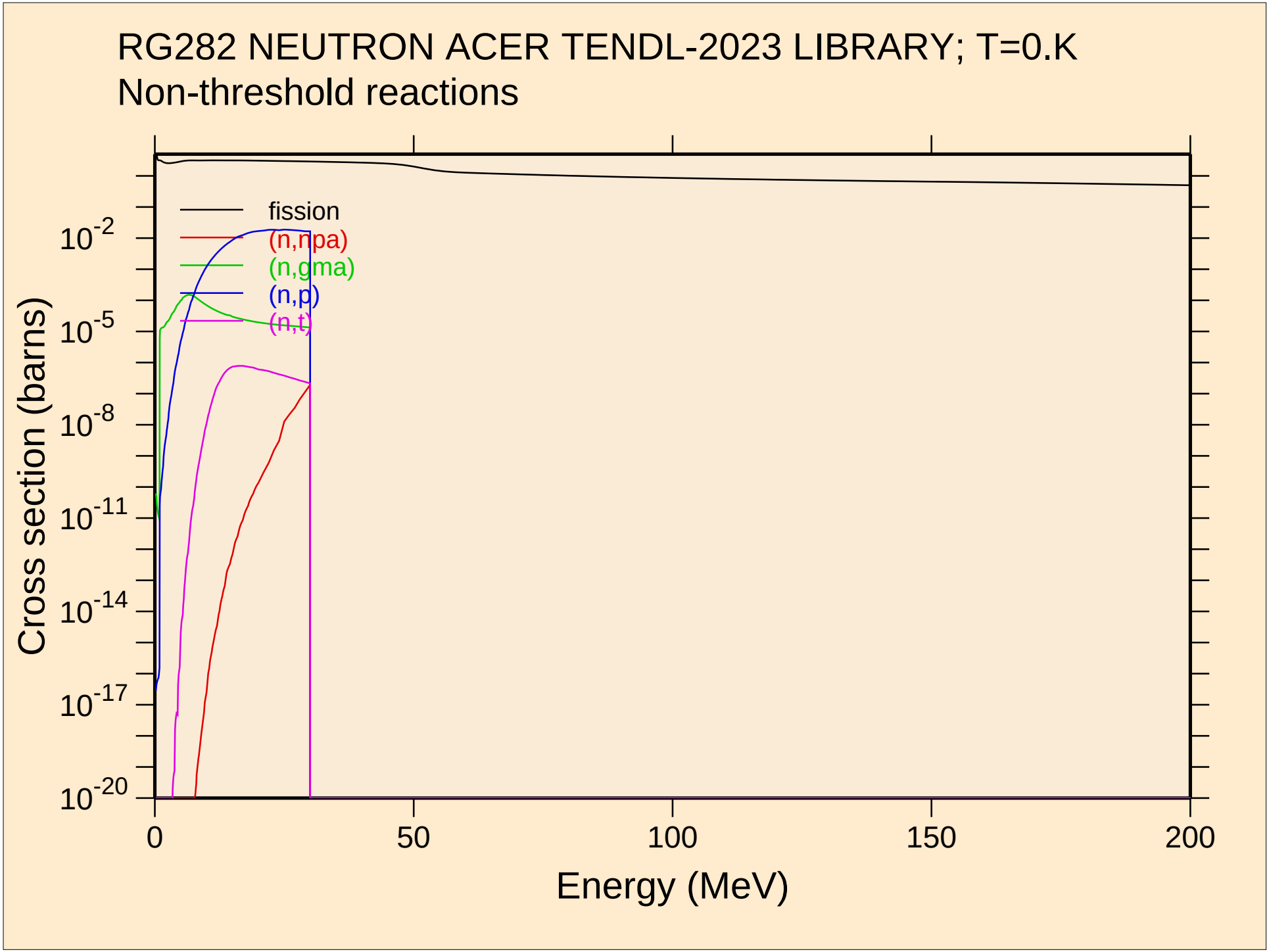

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,he3)
(n,a)
(n,pa)
(n,da)
(n,xp)
Cross section (barns)
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

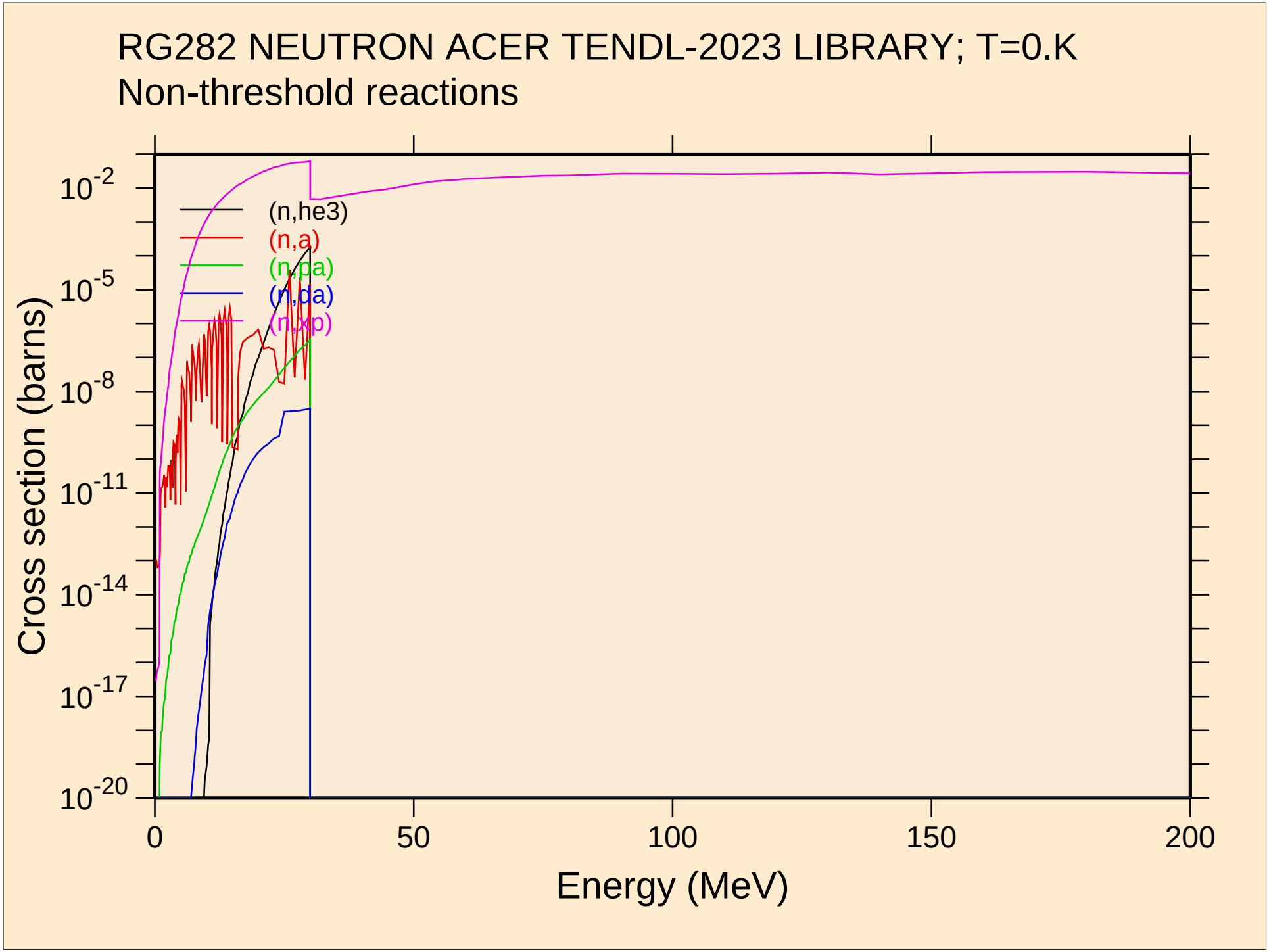

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
(n,xd)
(n,xt)
(n,xhe3)
(n,xa)
Cross section (barns)
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

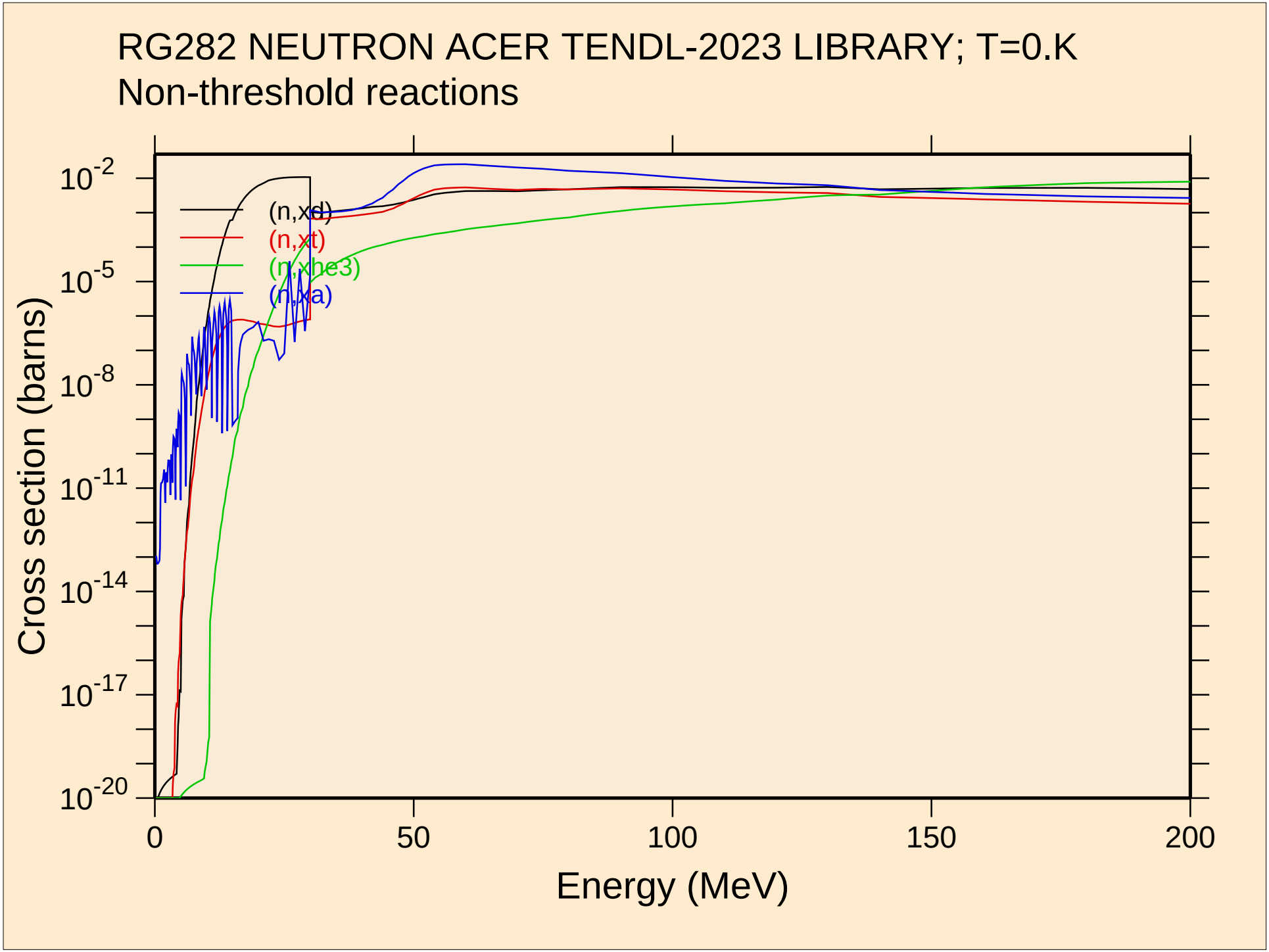

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
Energy (MeV)
0
2
4
6
8
10
0
20
40
60
80
100
120
140
160
180
200
total
absorption
elastic
gamma production

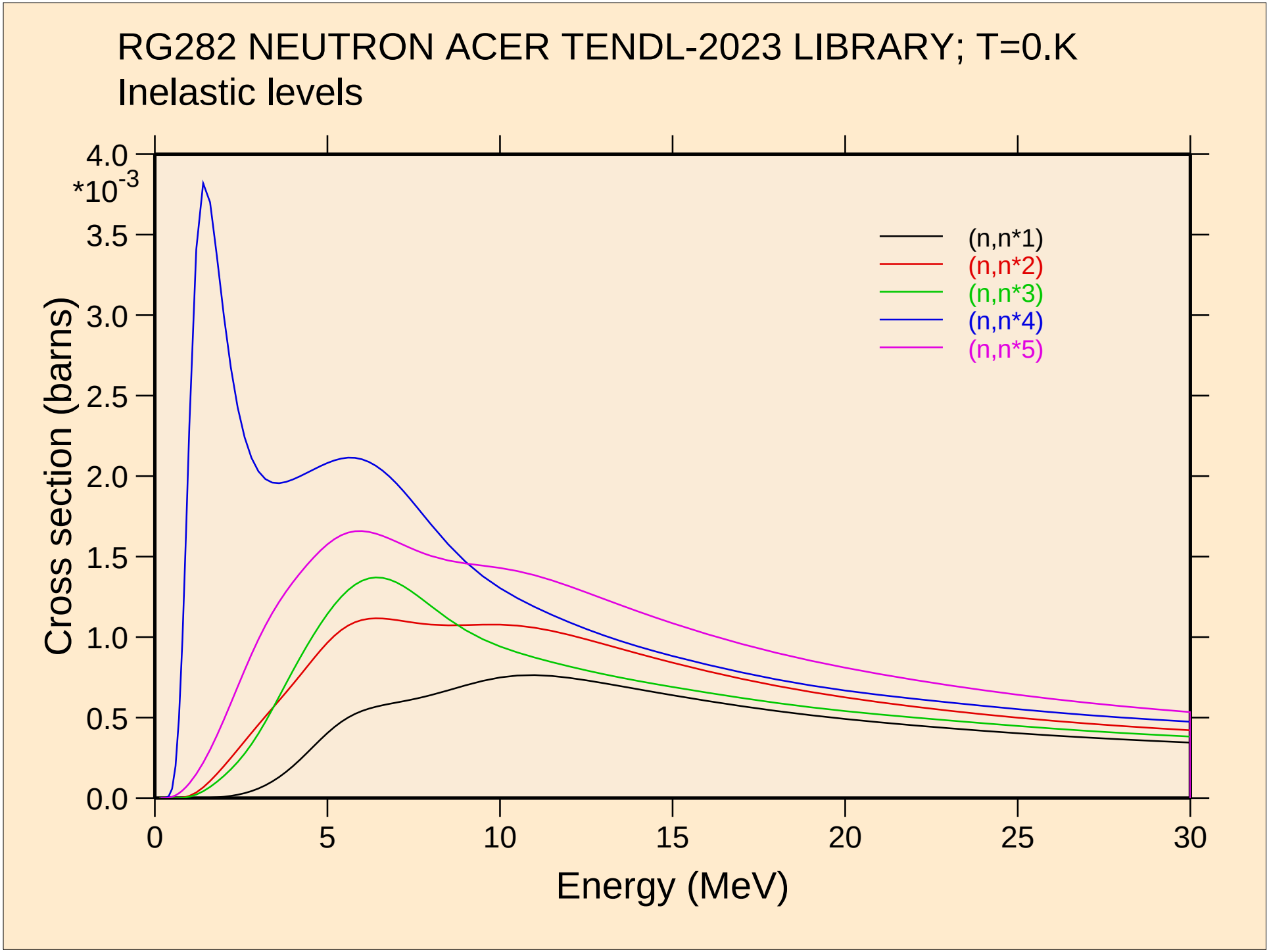

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
20
40
60
80
100
120
140
0
50
100
150
200

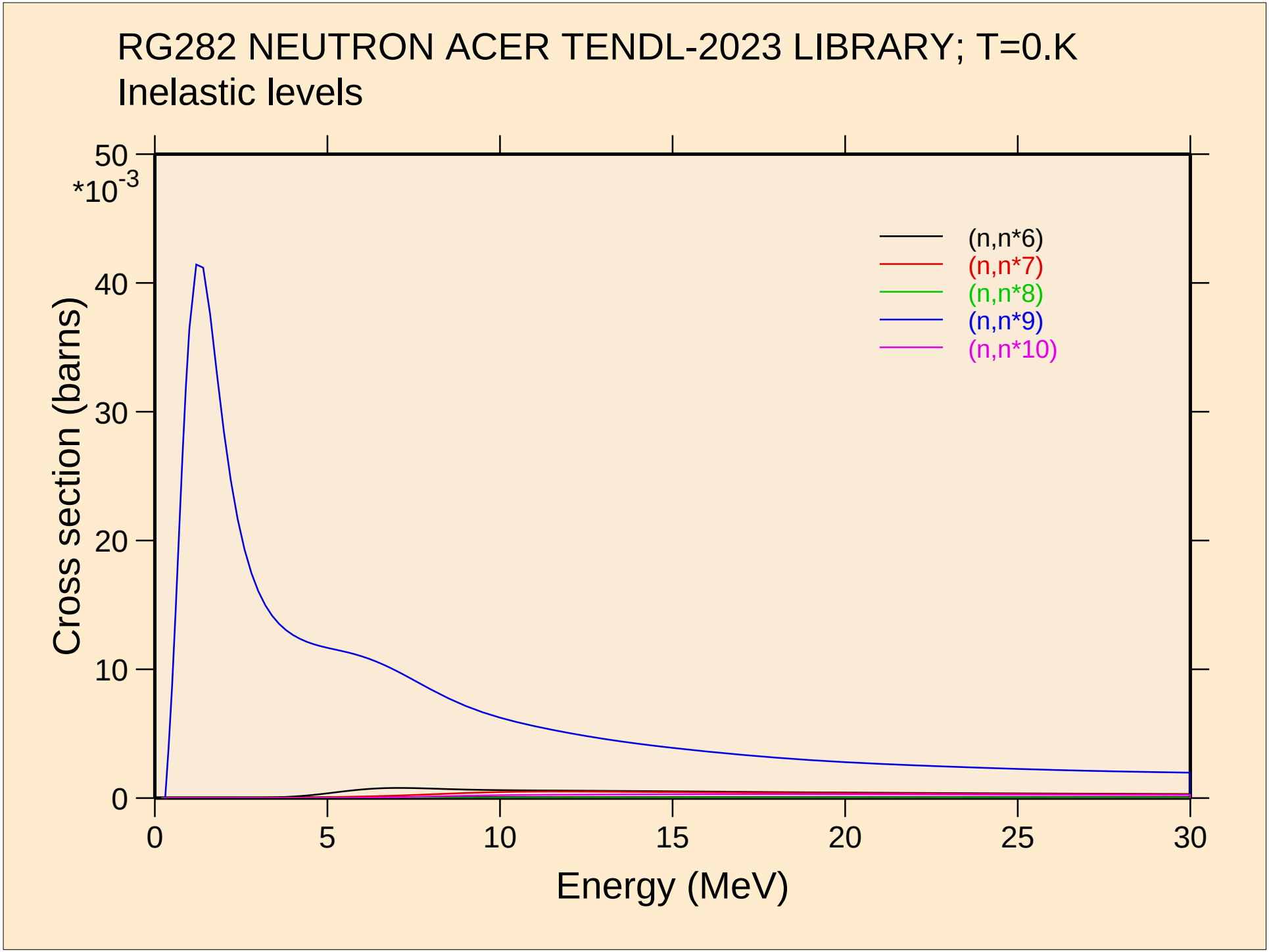

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Damage
350
*10-3
300
250
200
150
100
50
0
damage
Damage (MeV-barns)
0
50
100
150
200
Energy (MeV)

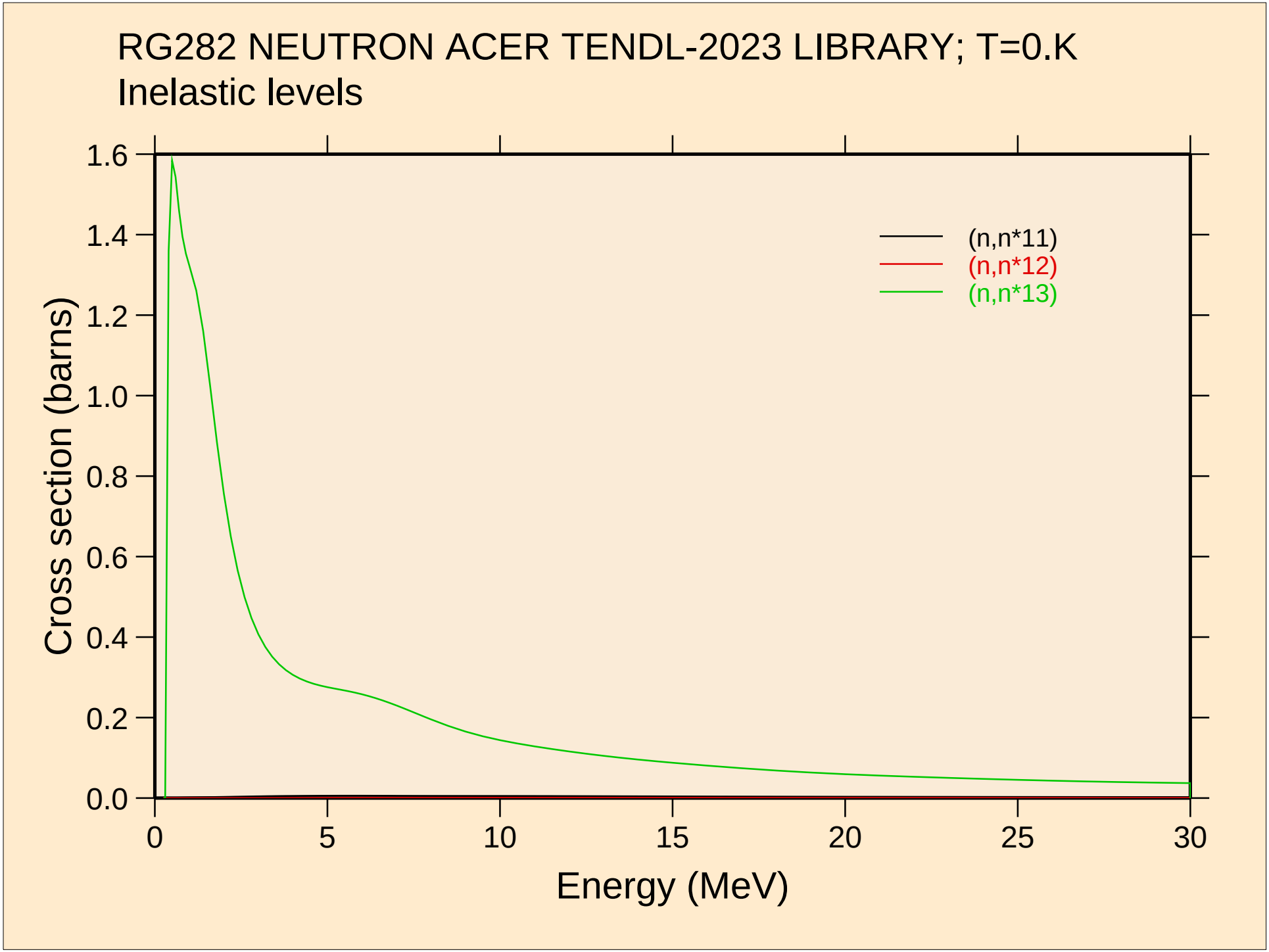

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
fission
(n,npa)
(n,gma)
(n,p)
(n,t)
Cross section (barns)
10-2
10-5
10-8
10-11
10-14
10-17
10-20
0
50
100
150
200
Energy (MeV)

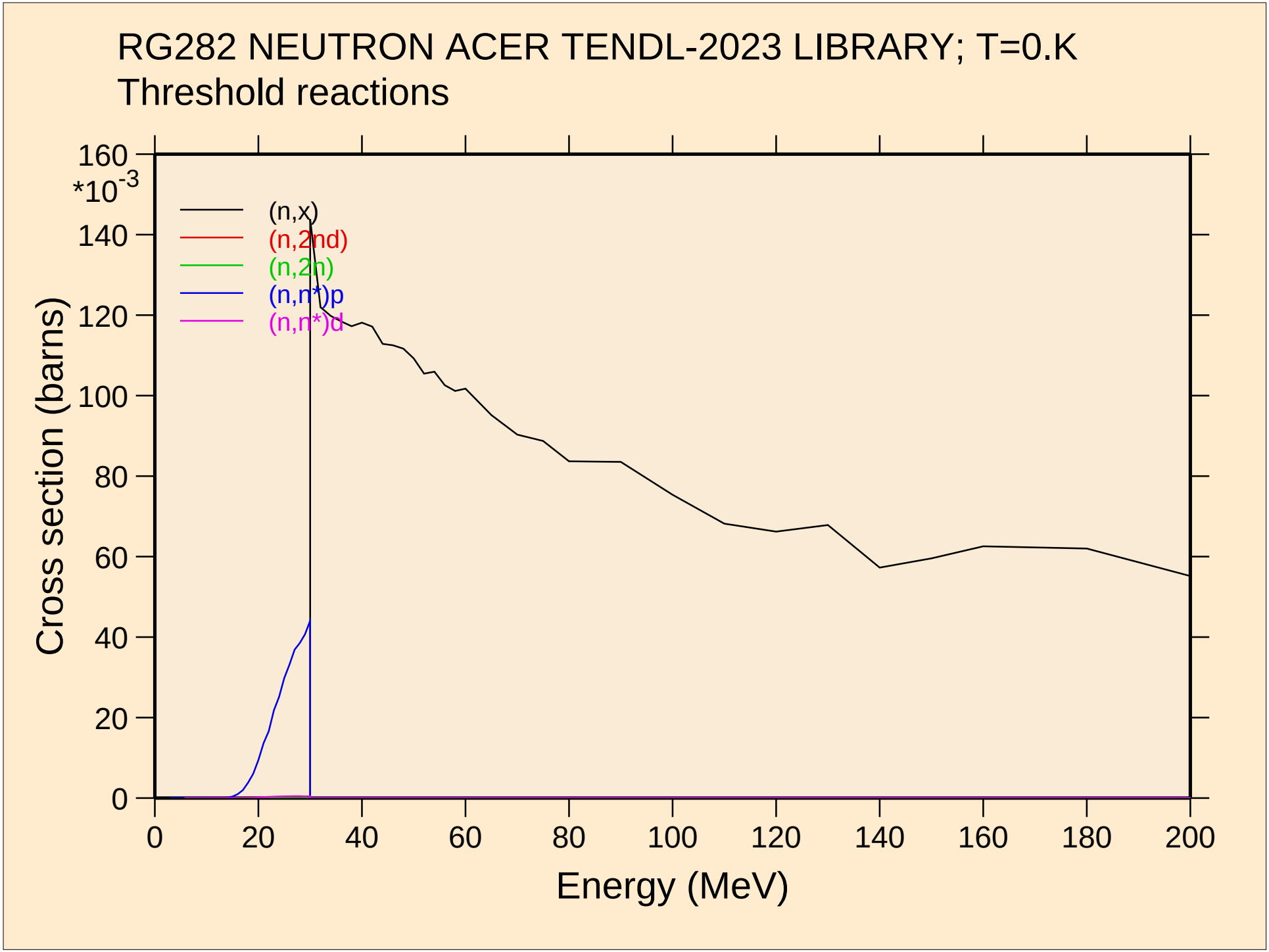

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
Cross section (barns)
10-2
10-5
10-8
10-11
10-14
10-17
10-20
(n,he3)
(n,a)
(n,pa)
(n,da)
(n,xp)
0
50
100
150
200
Energy (MeV)

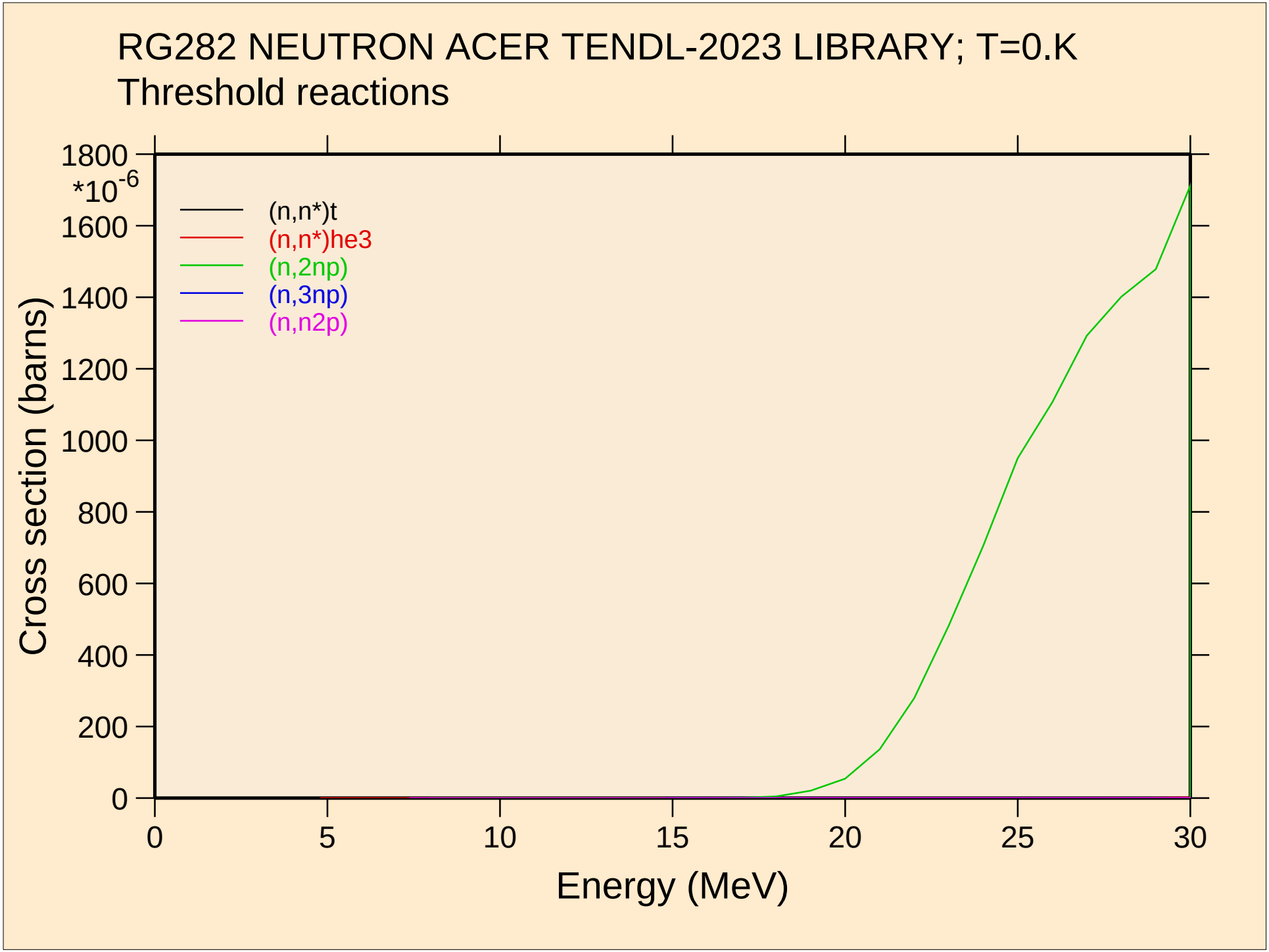

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions
Cross section (barns)
Energy (MeV)
(n,xd)
(n,xt)
(n,xhe3)
(n,xa)
10-2
10-5
10-8
10-11
10-14
10-17
10-20
0
50
100
150
200

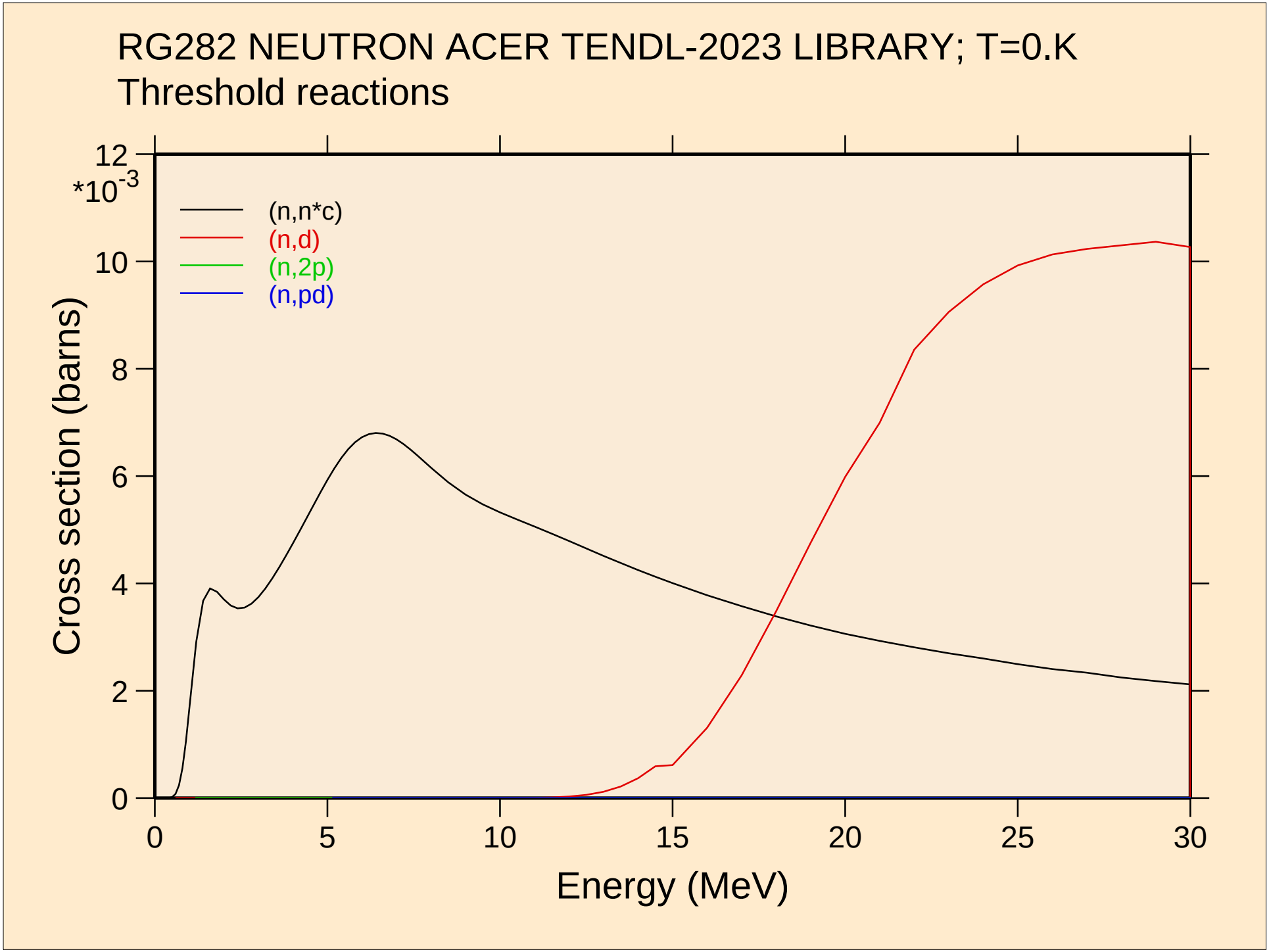

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels
Cross section (barns)
*10-3
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30
Energy (MeV)
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

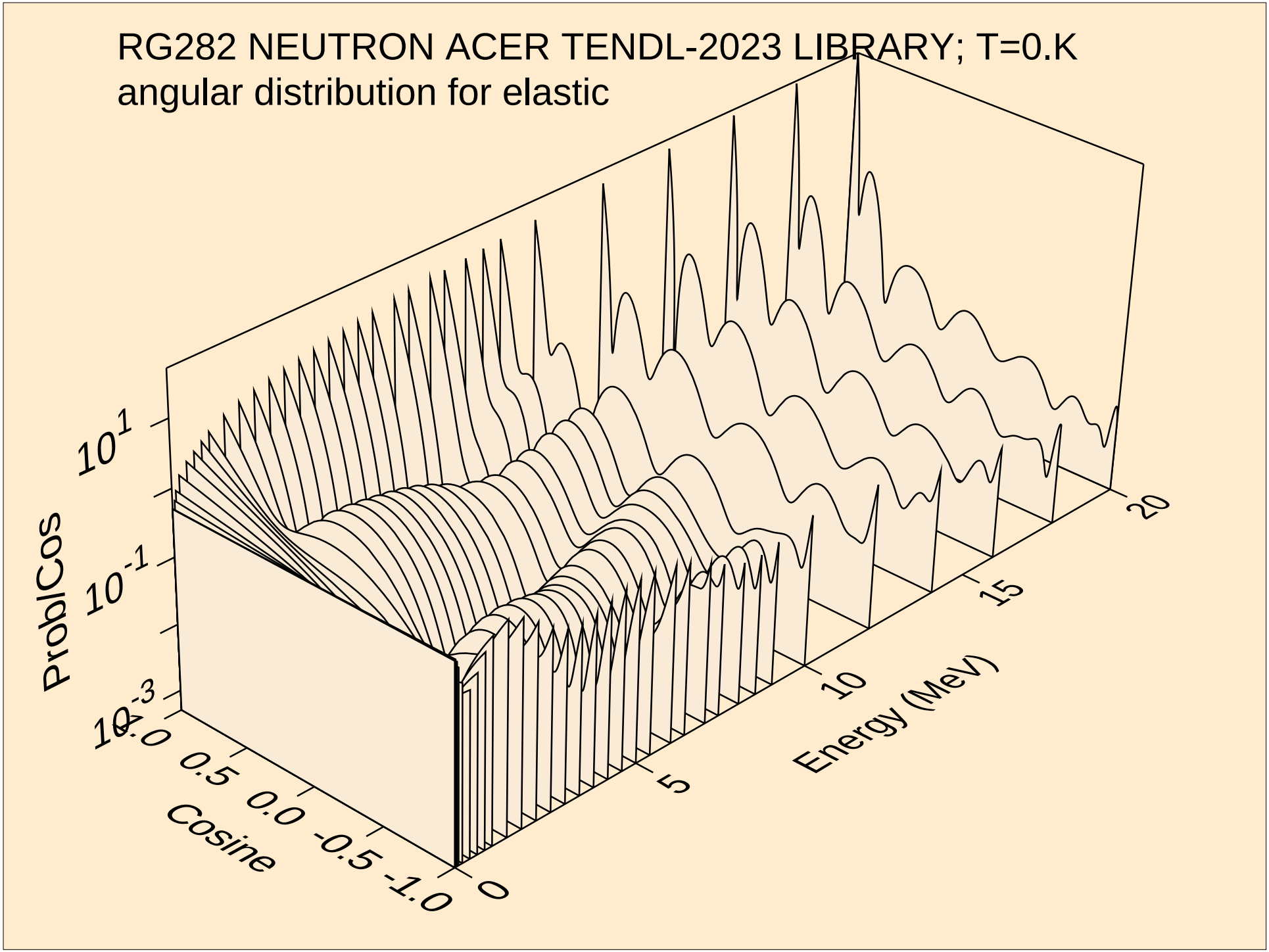

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels
50
*10-3
40
30
20
10
0
Cross section (barns)
0
5
10
15
20
25
30
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

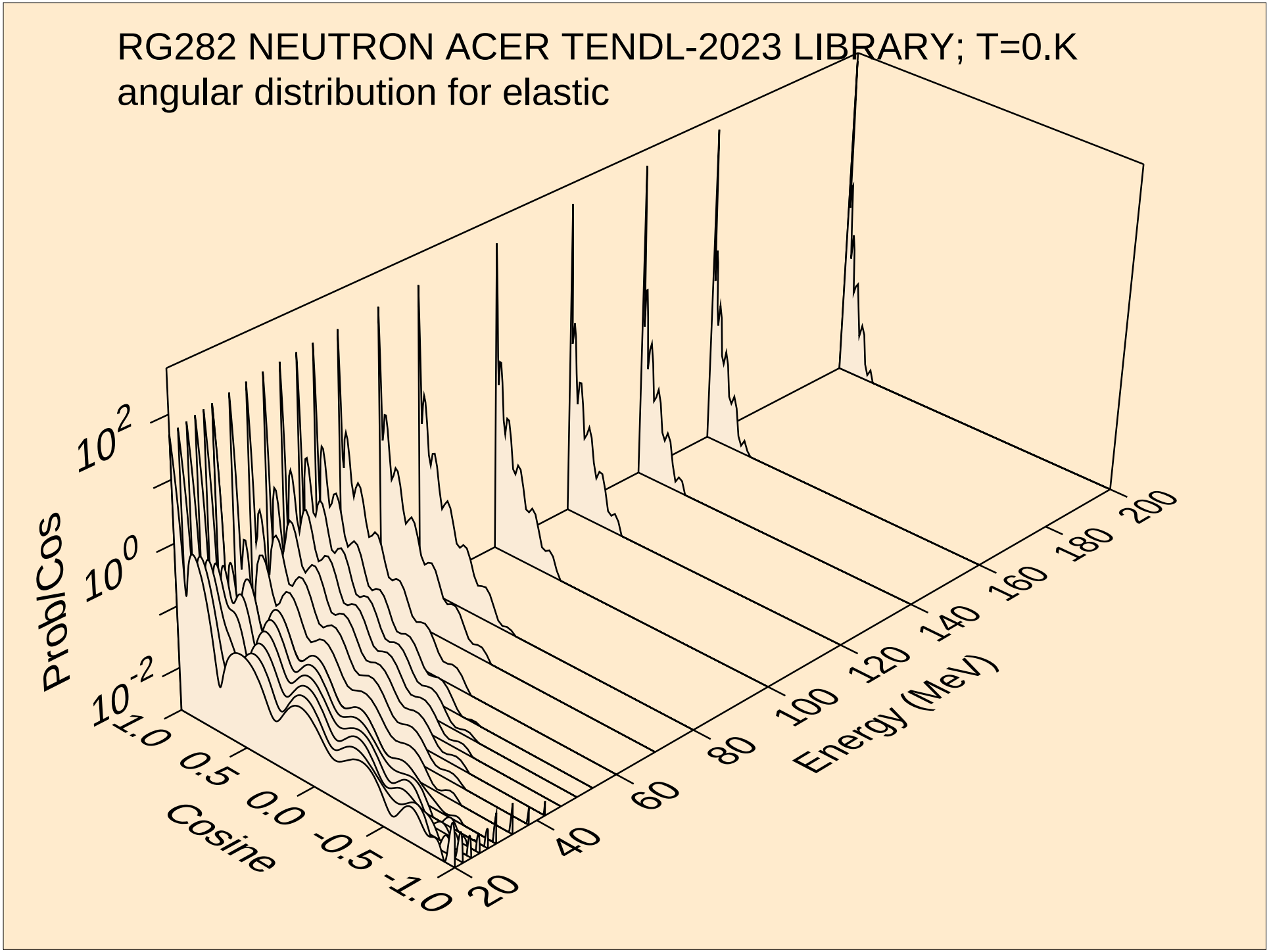

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels
Cross section (barns)
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
5
10
15
20
25
30

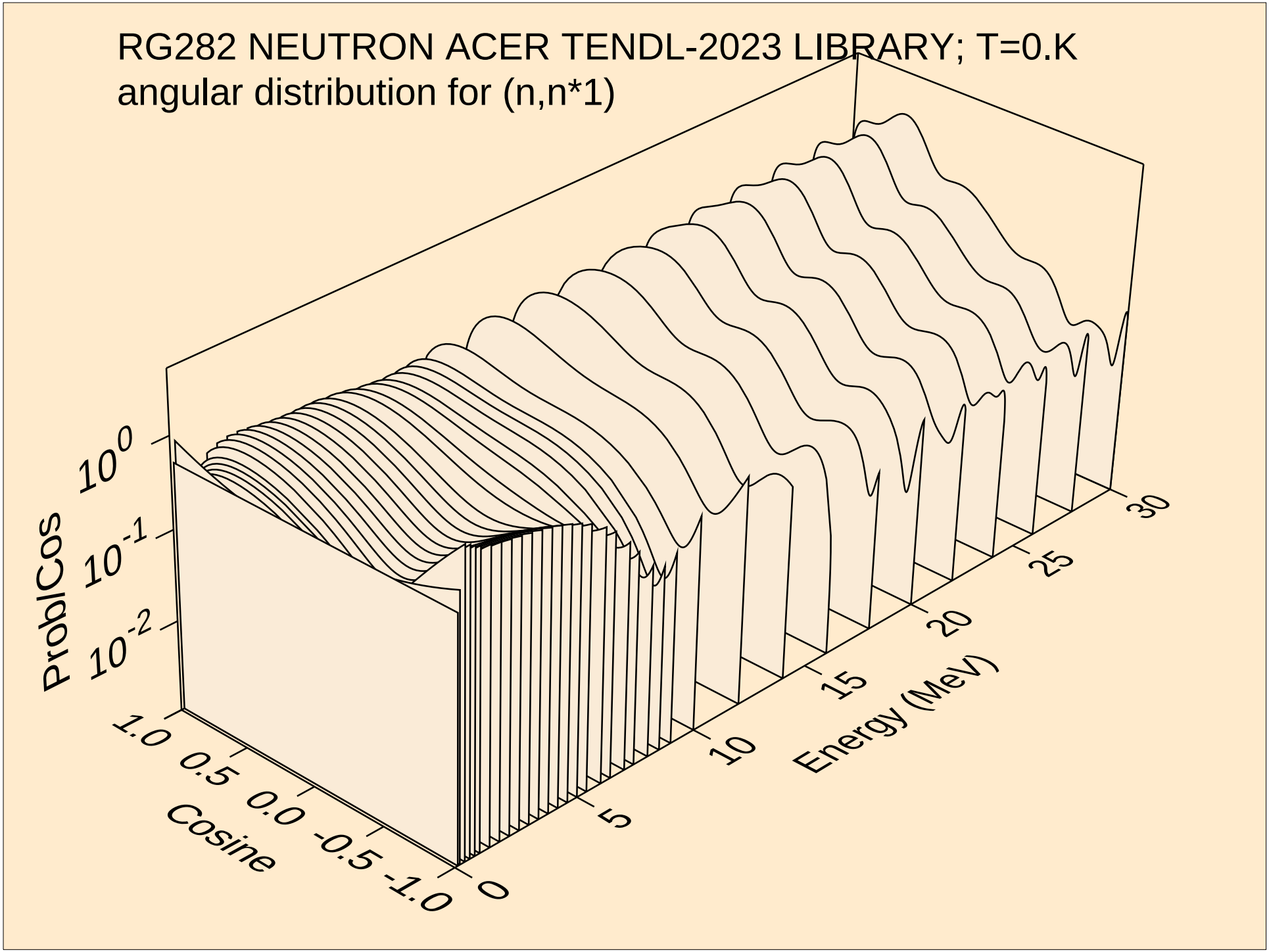

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
*10-3
160
140
120
100
80
60
40
20
0
(n,x)
(n,2nd)
(n,2n)
(n,n*)p
(n,n*)d
Cross section (barns)
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

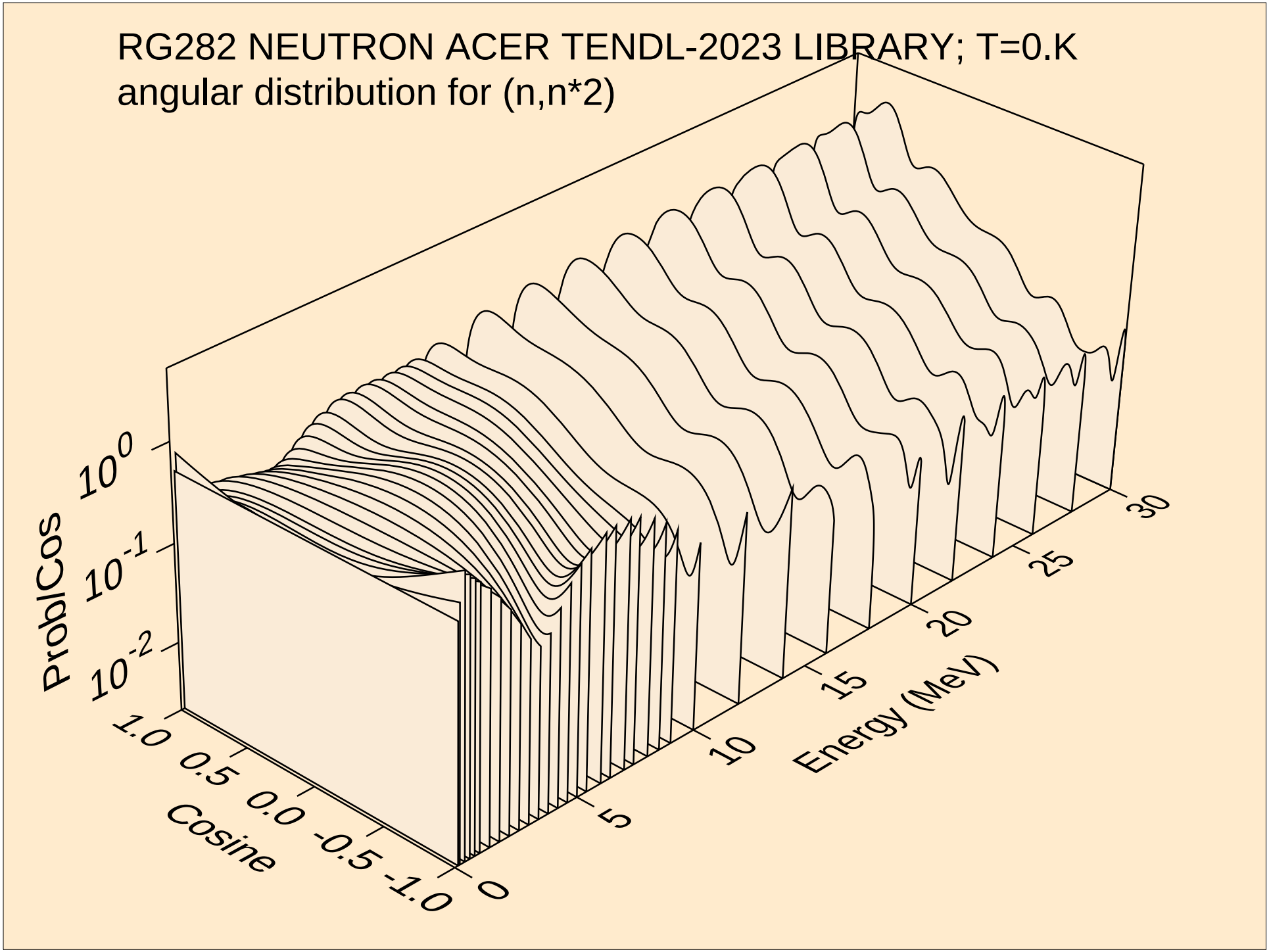

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
1800
*10-6
1600
1400
1200
1000
800
600
400
200
0
Cross section (barns)
(n,n*)t
(n,n*)he3
(n,2np)
(n,3np)
(n,n2p)
0
5
10
15
20
25
30
Energy (MeV)

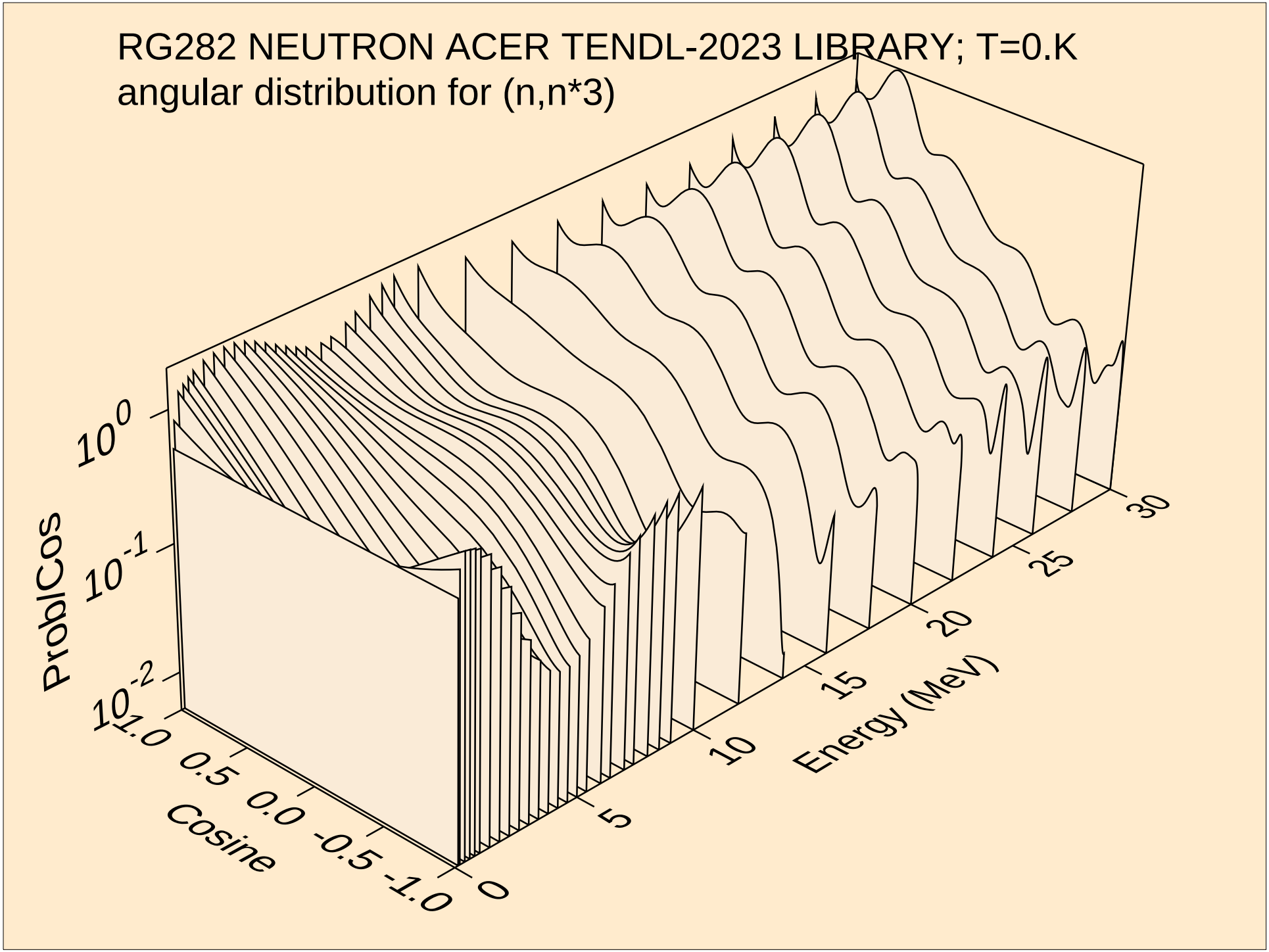

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions
*10-3
12
10
8
6
4
2
0
(n,n*c)
(n,d)
(n,2p)
(n,pd)
Cross section (barns)
0
5
10
15
20
25
30
Energy (MeV)

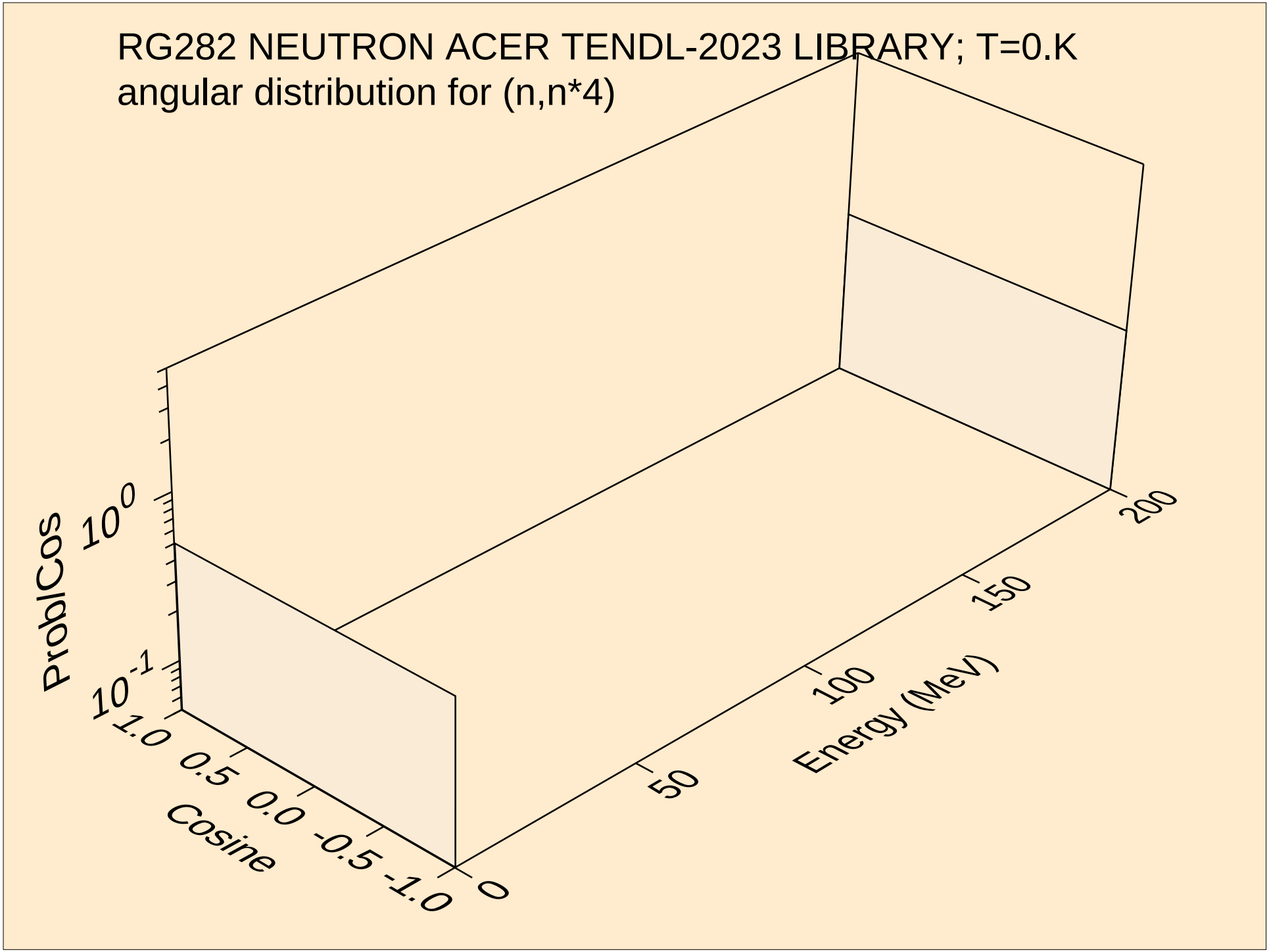

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic
ProbICos
10^{1}
10^{-1}
10^{-3}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

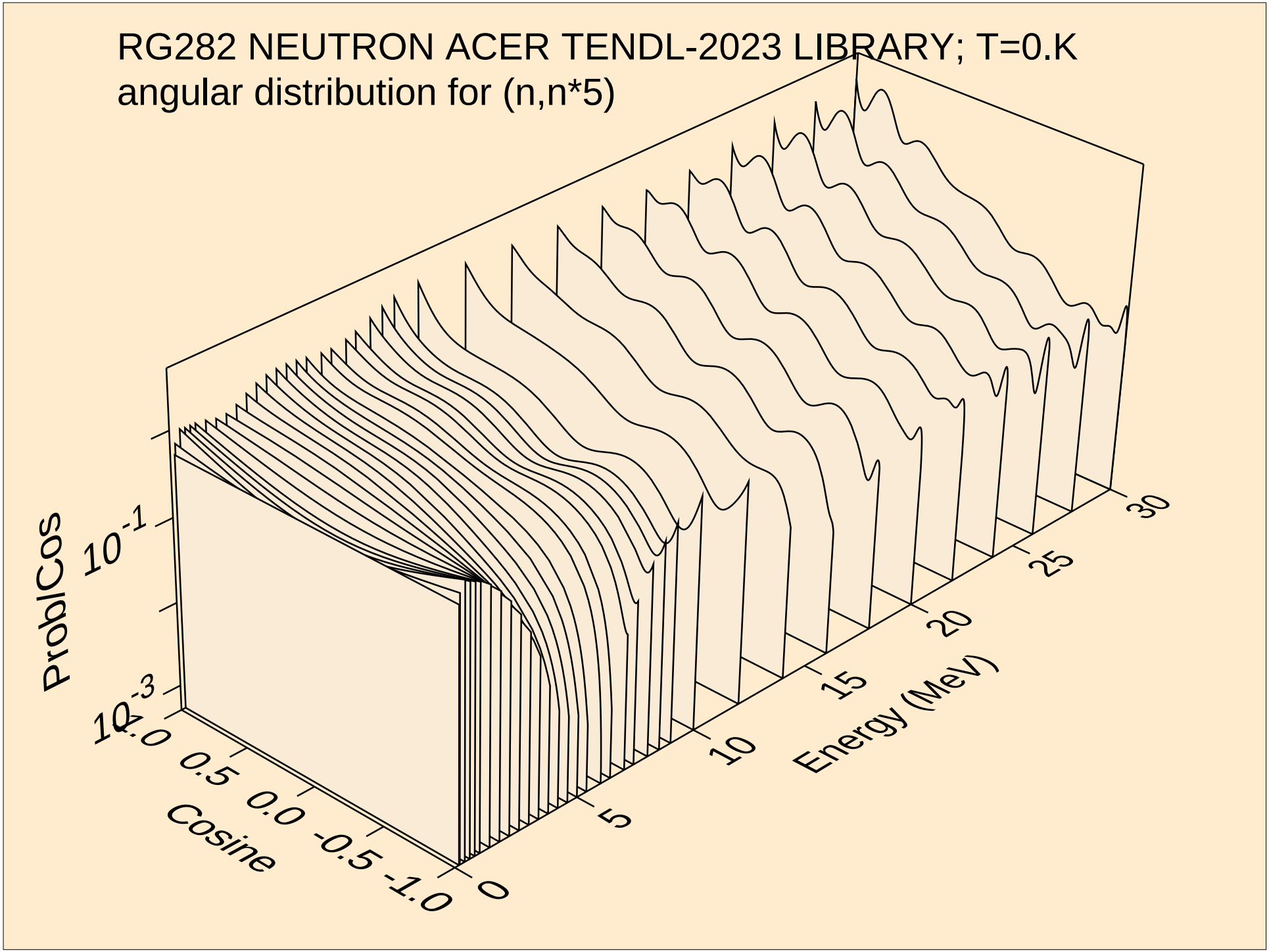

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic
ProbICos
10^{2}
10^{0}
10^{-2}
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
20
40
60
80
100
120
140
160
180
200

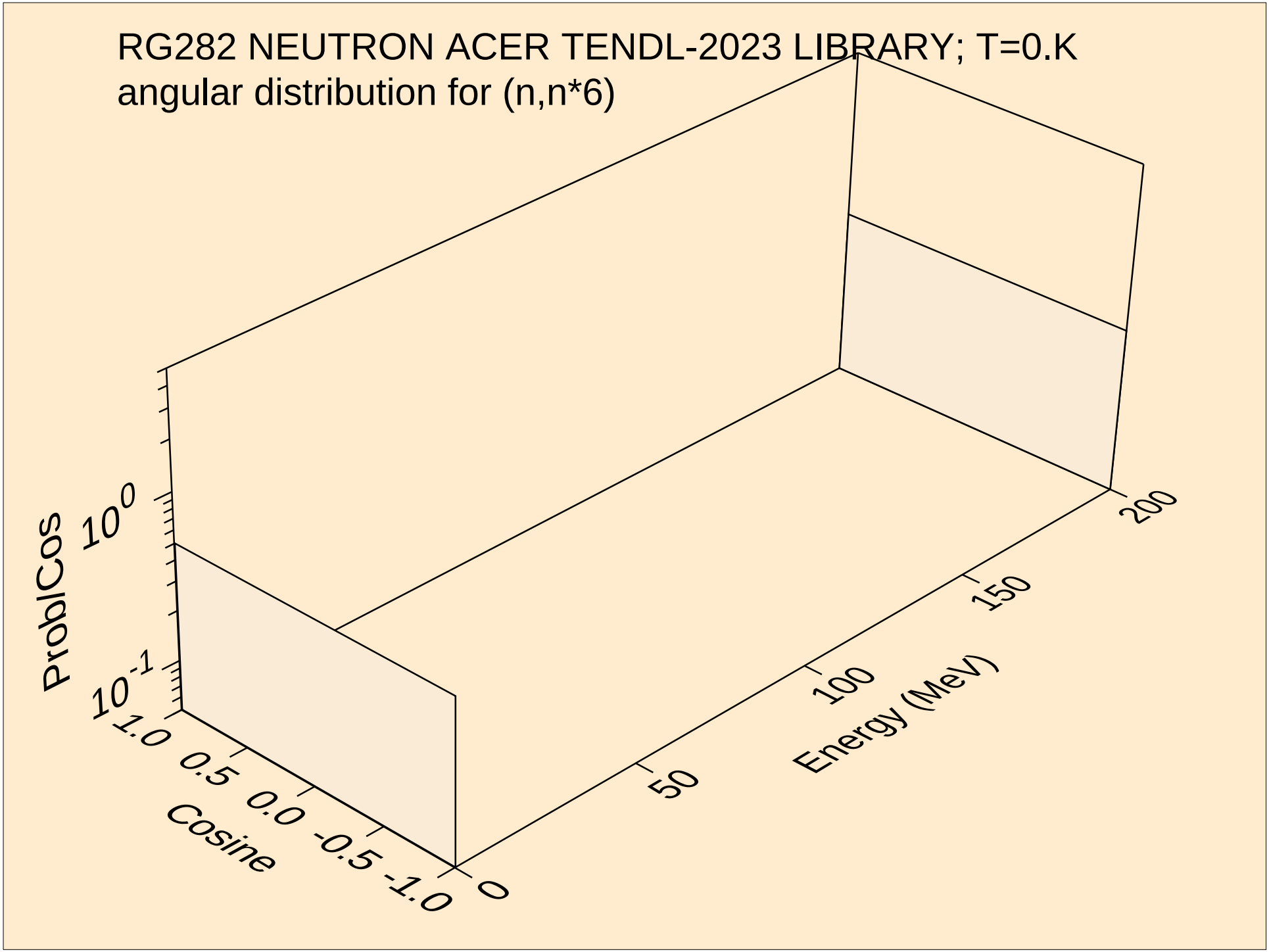

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*1)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

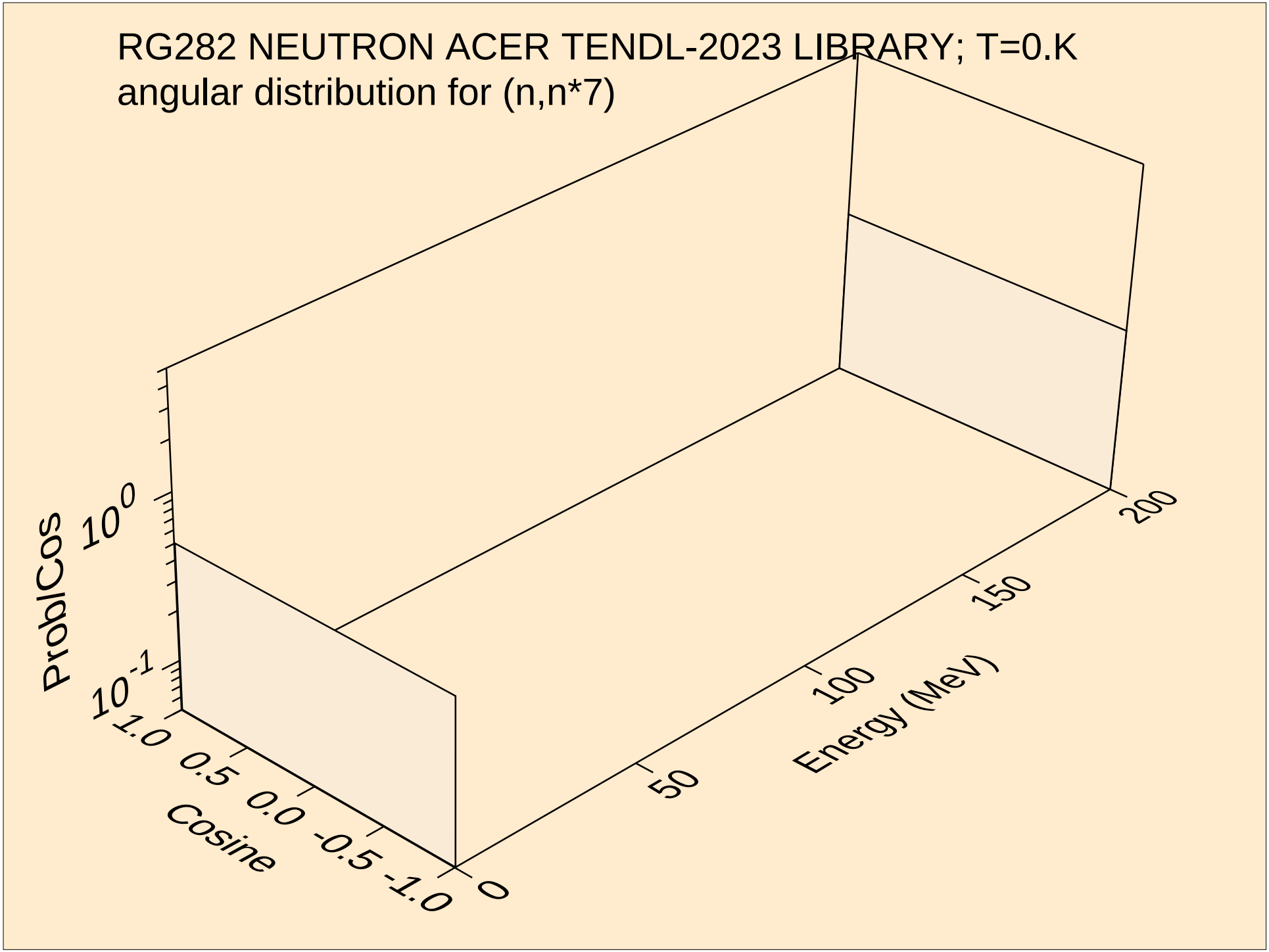

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*2)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

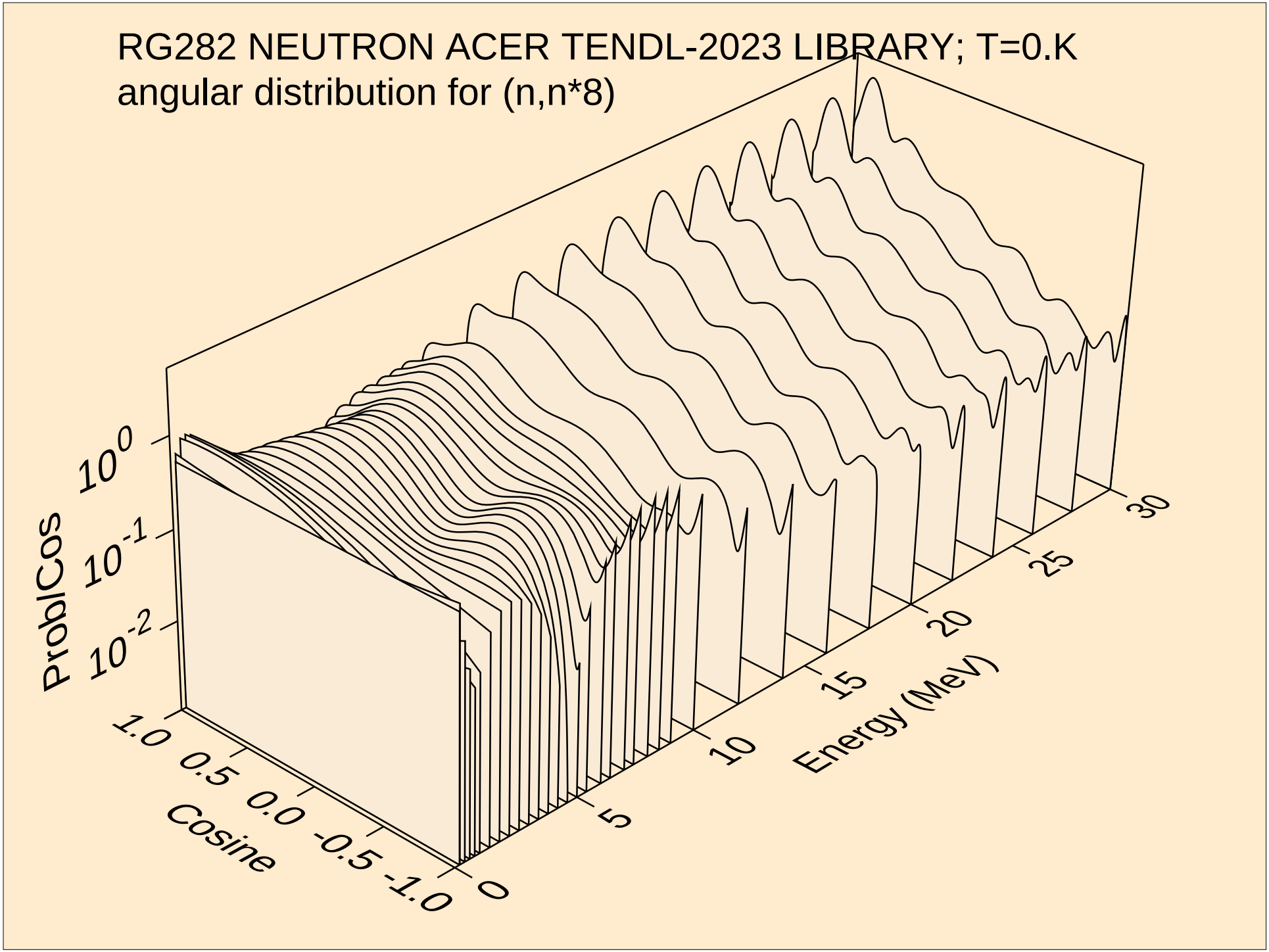

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*3)
ProbCos
10^{0}
10^{-1}
10^{-2}
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
5
10
15
20
25
30

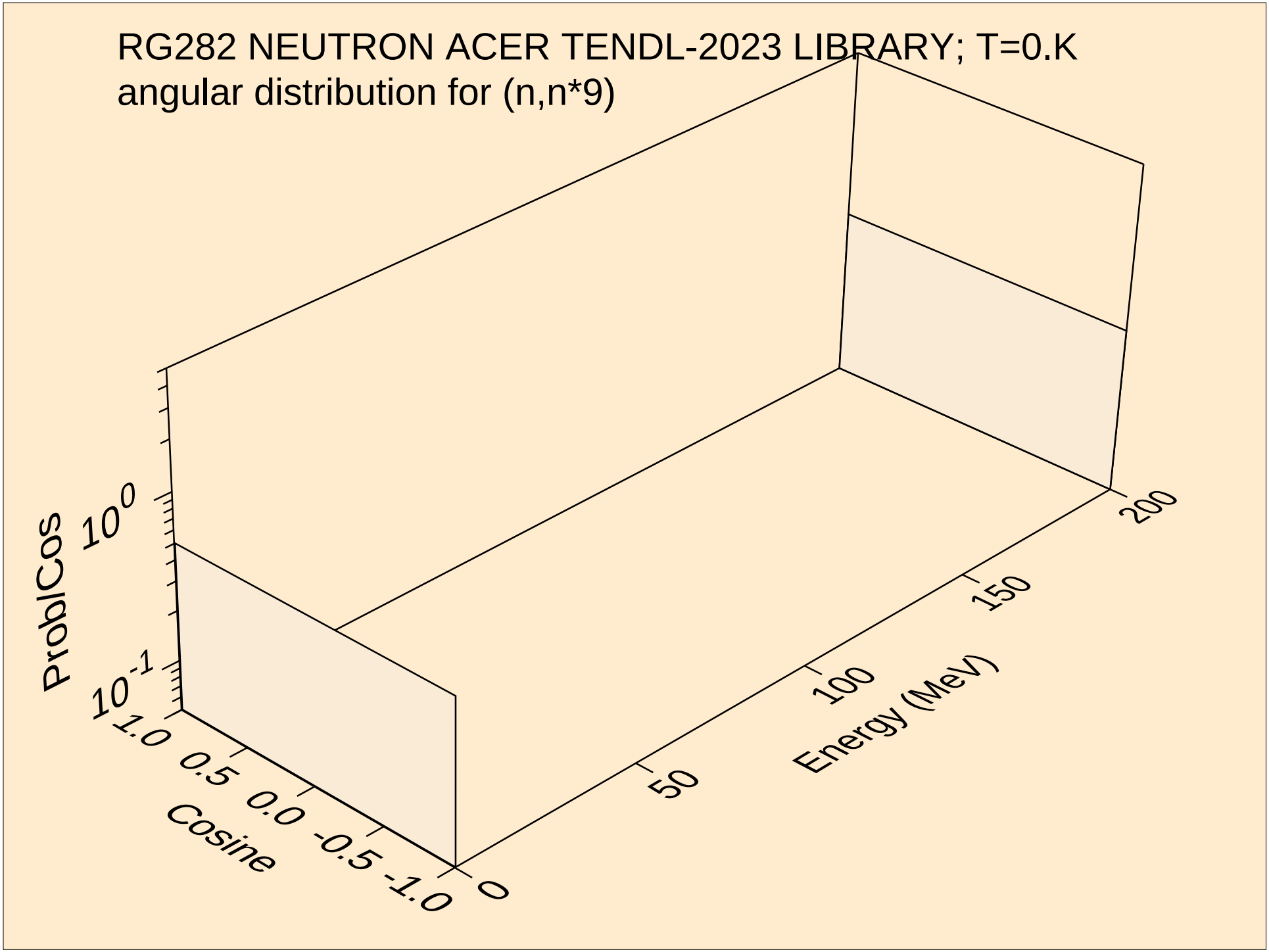

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*4)
Prob\Cos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
50
100
150
200
Energy (MeV)

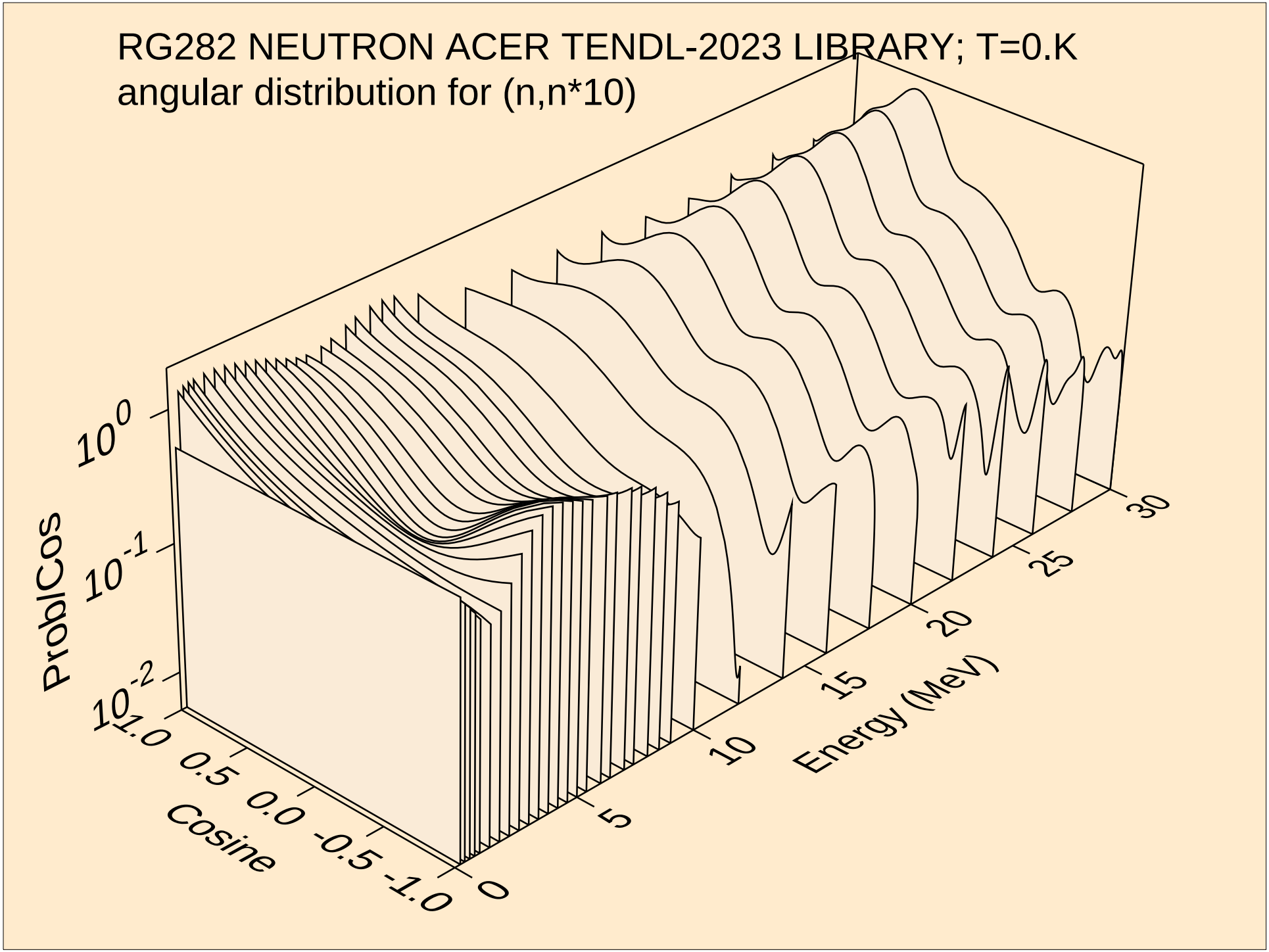

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*5)
ProbCos
10-1
10-3
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

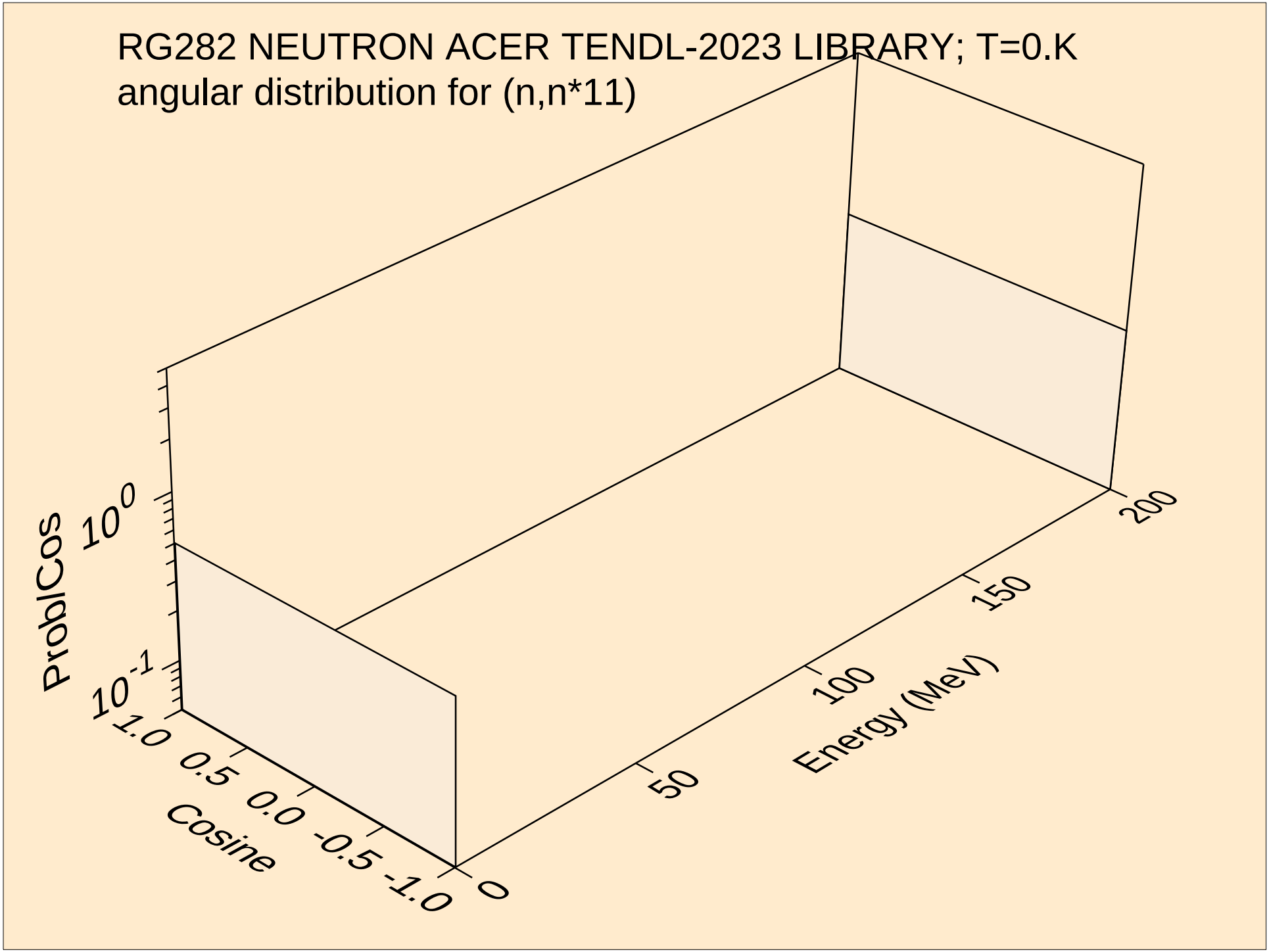

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*6)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
50
100
150
200
Energy (MeV)

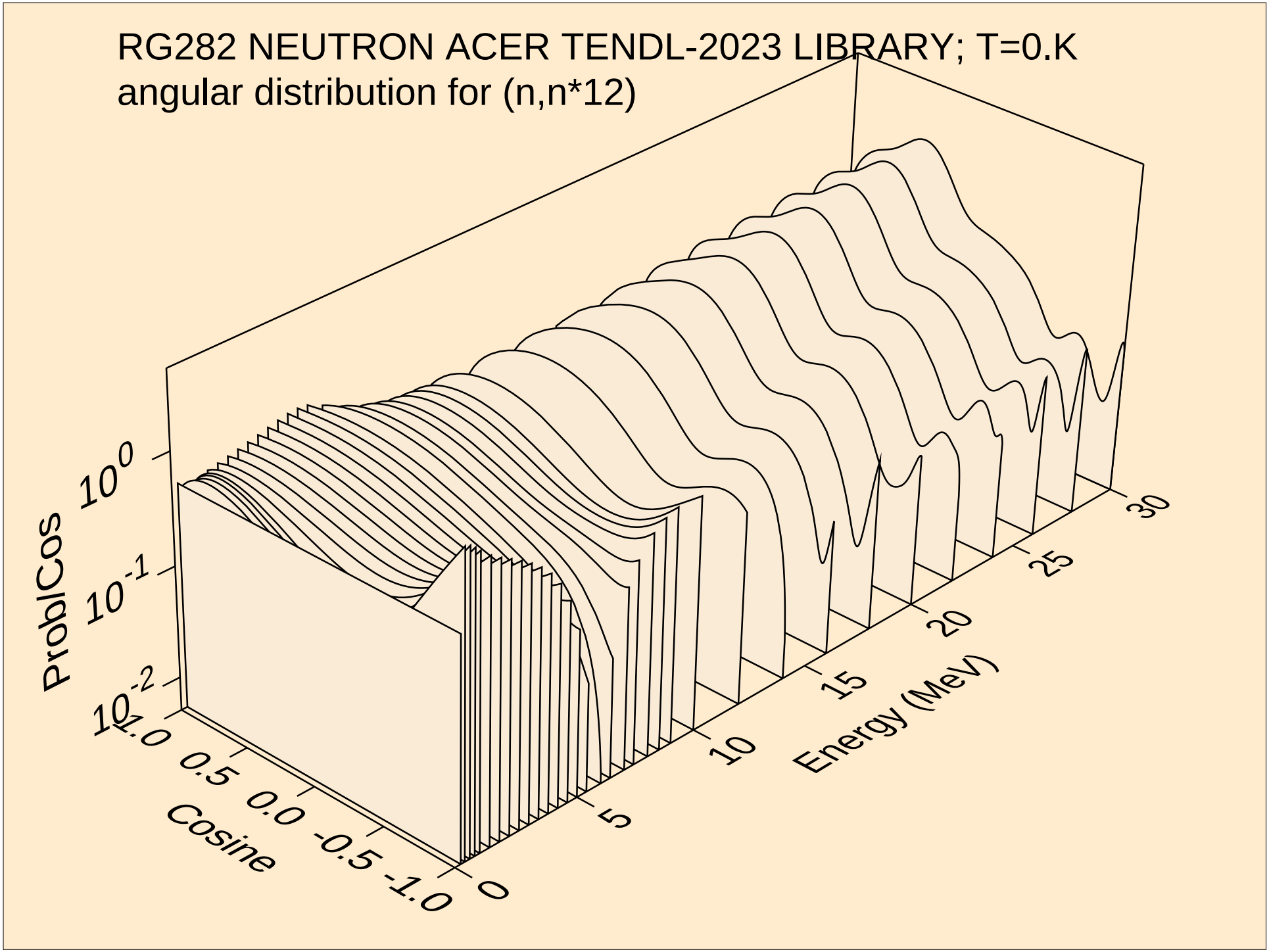

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*7)
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
50
100
150
200
Energy (MeV)

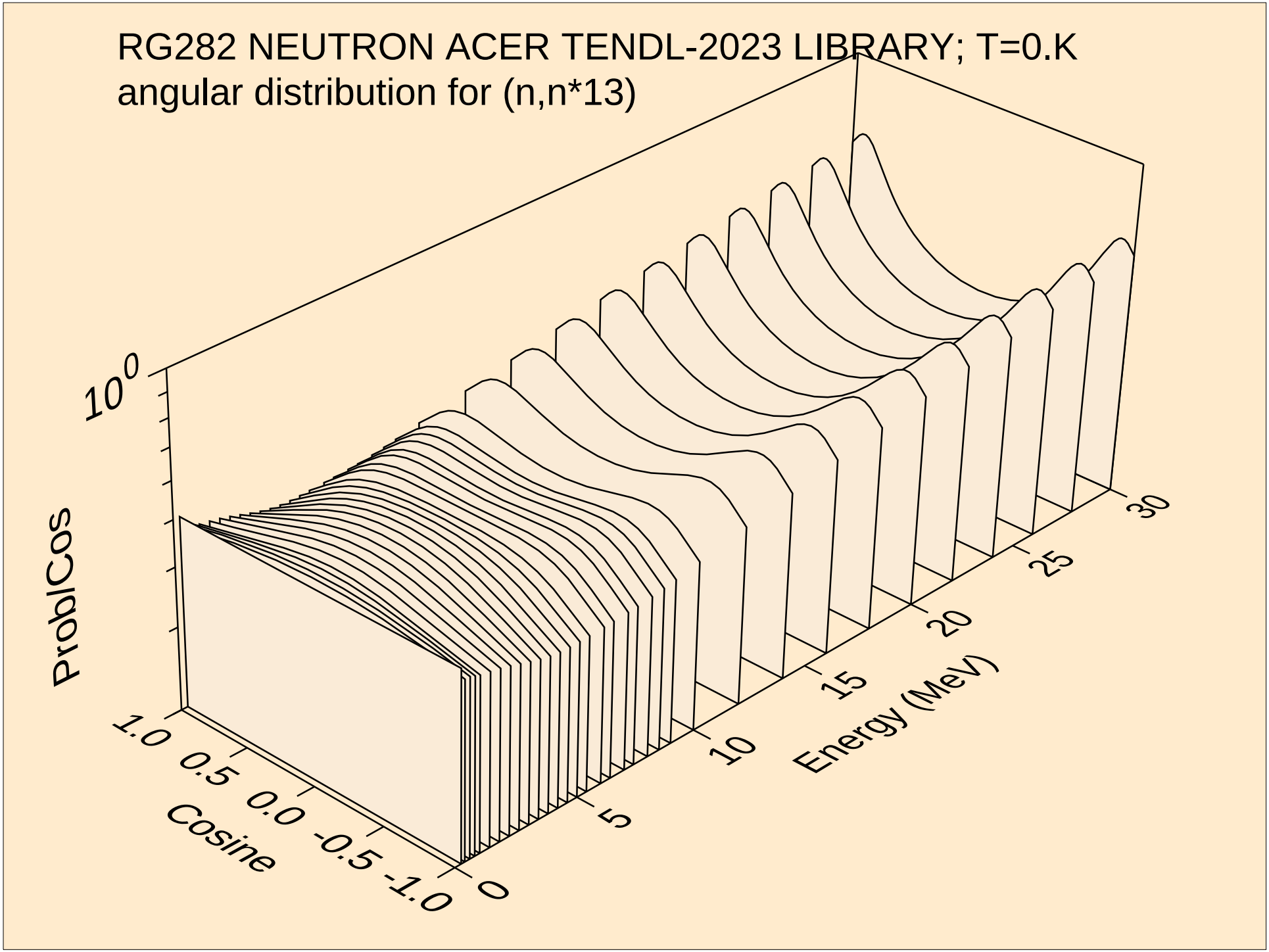

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*8)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

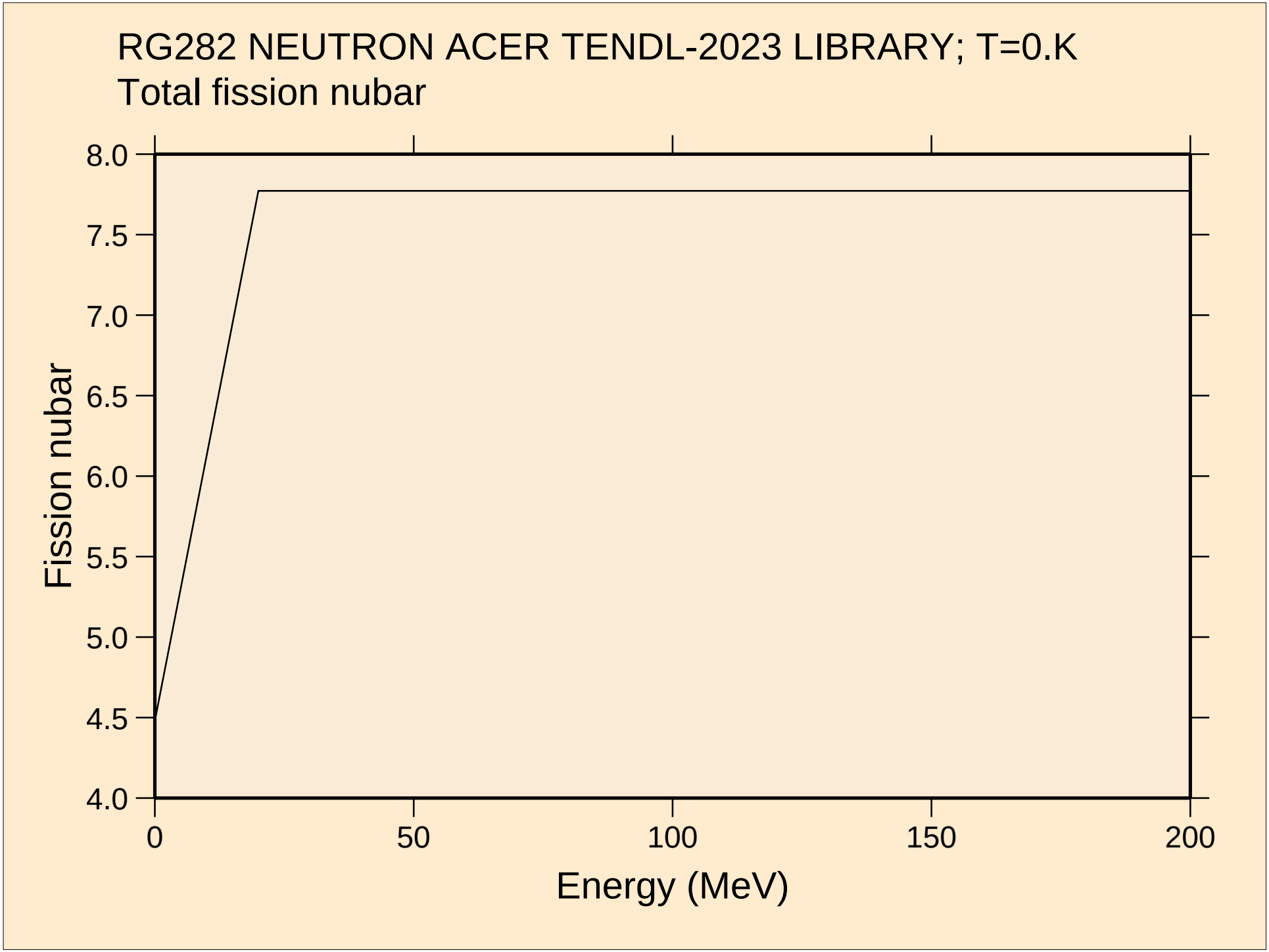

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*9)
Prob\Cos
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
50
100
150
200
Energy (MeV)

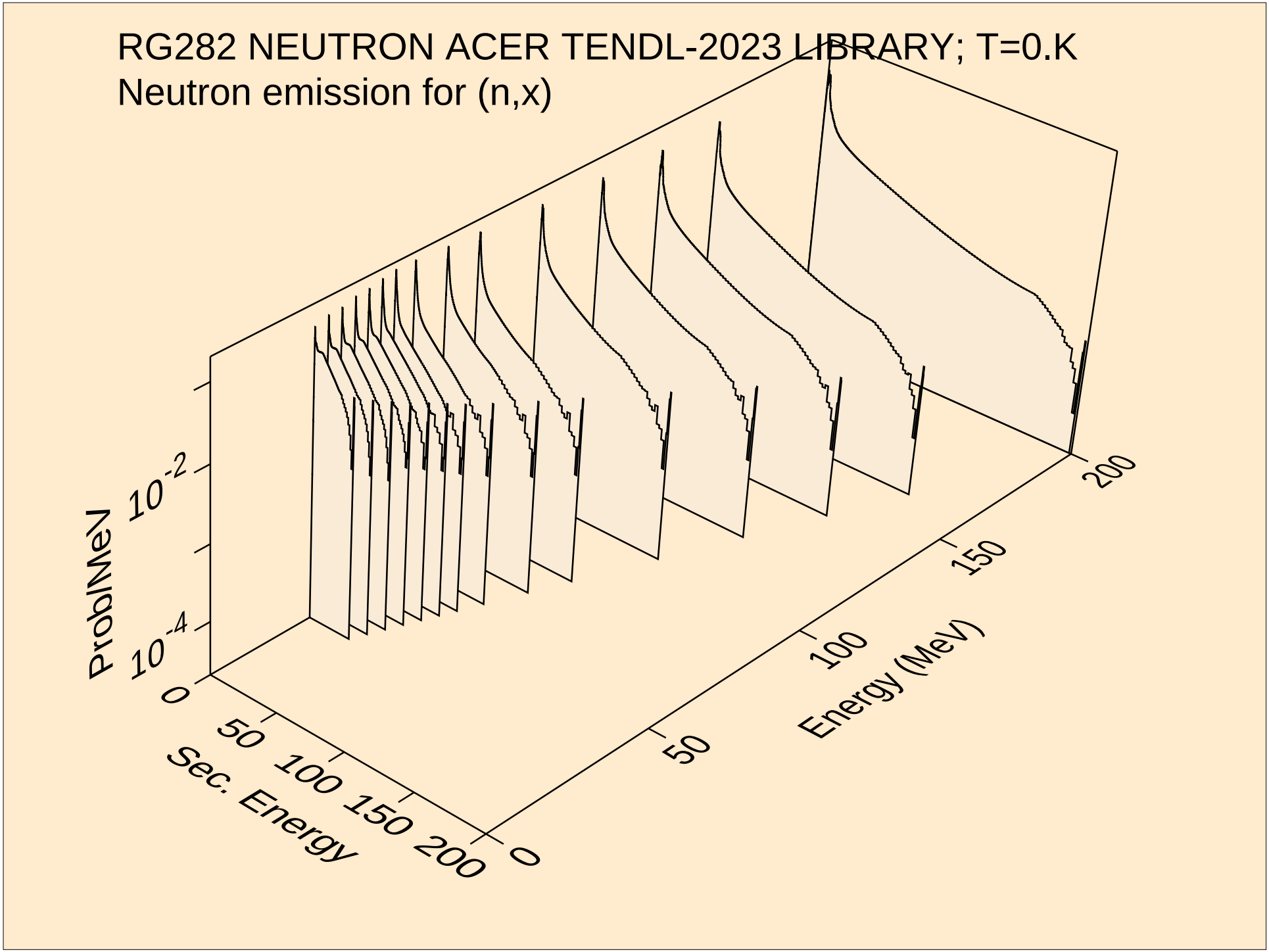

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*10)
ProbICos
10^{0}
10^{-1}
10^{-2}
Cosine
1.0
0.5
0.0
-0.5
-1.0
Energy (MeV)
0
5
10
15
20
25
30

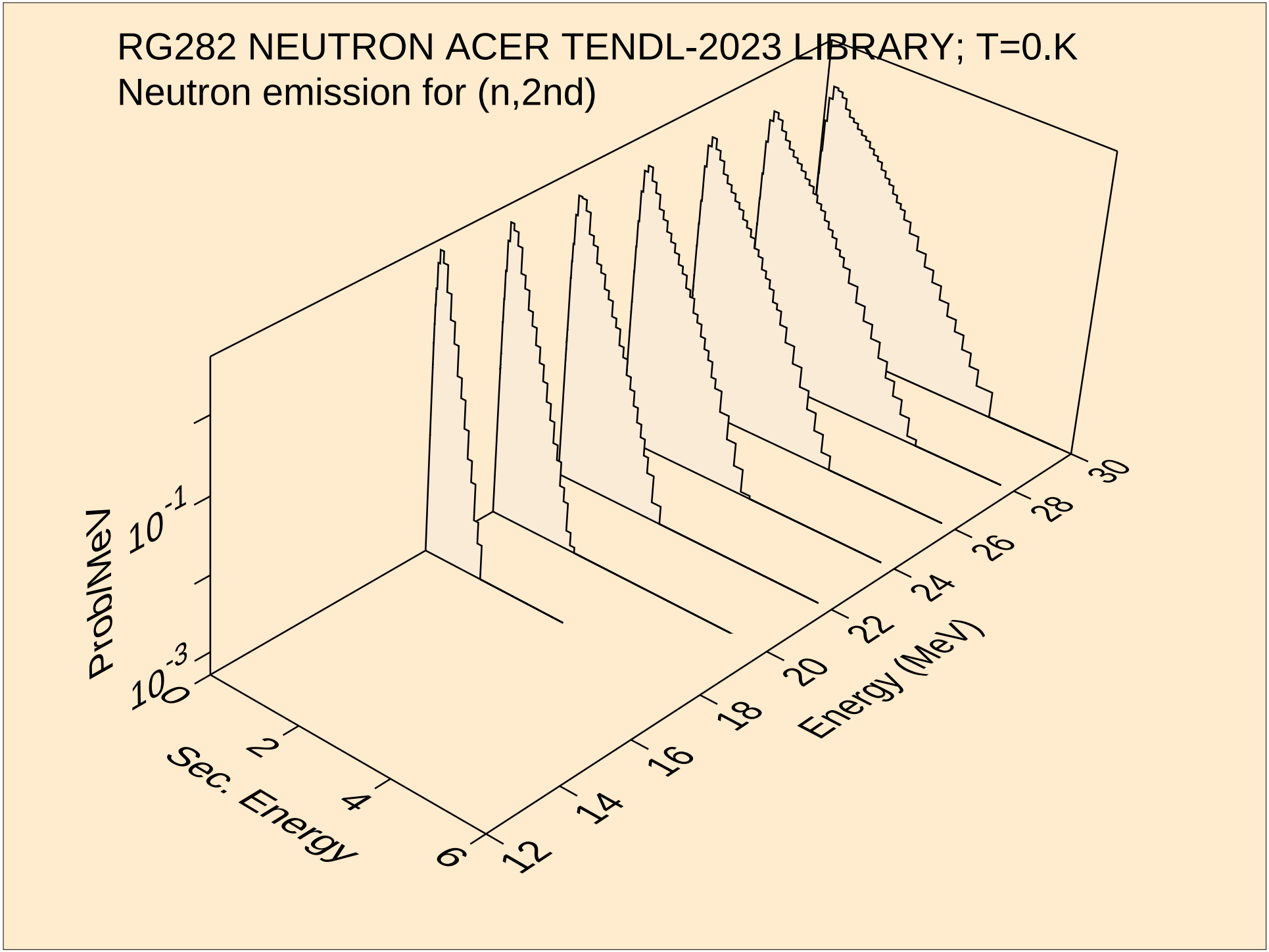

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*11)
ProbICos
10^0
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
50
100
150
200
Energy (MeV)

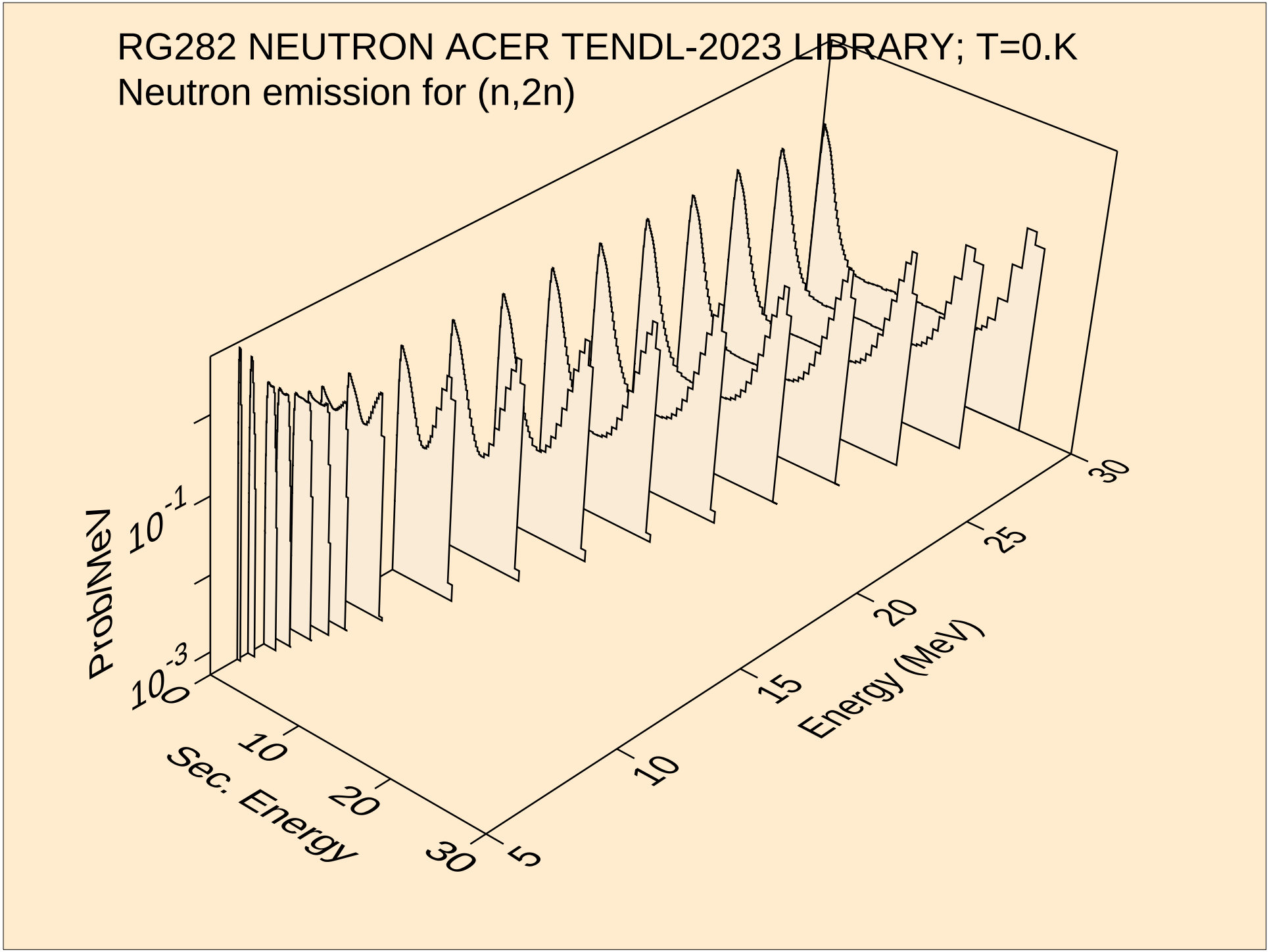

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*12)
Prob\Cos
10^0
10^-1
10^-2
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

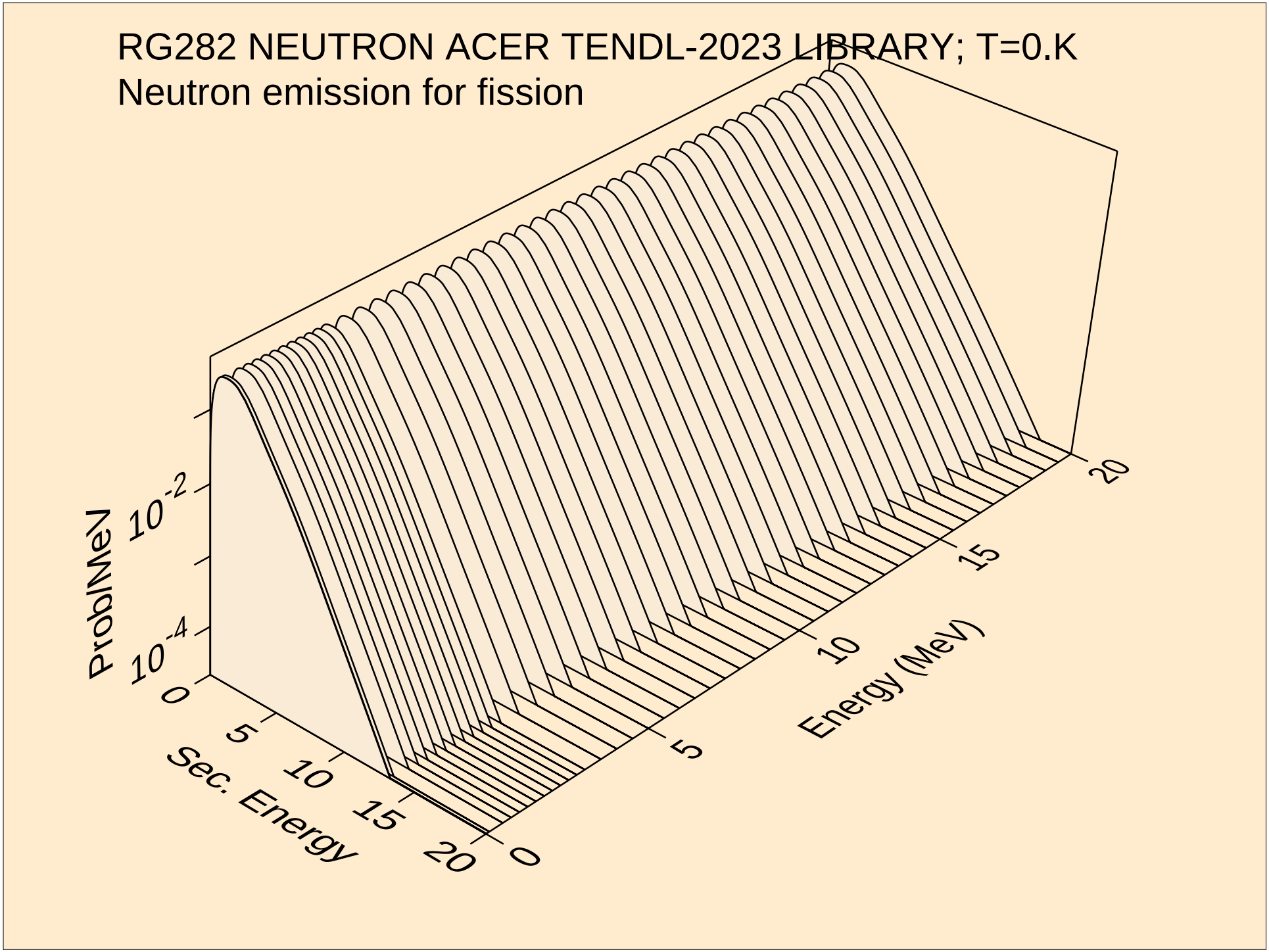

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*13)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
Energy (MeV)

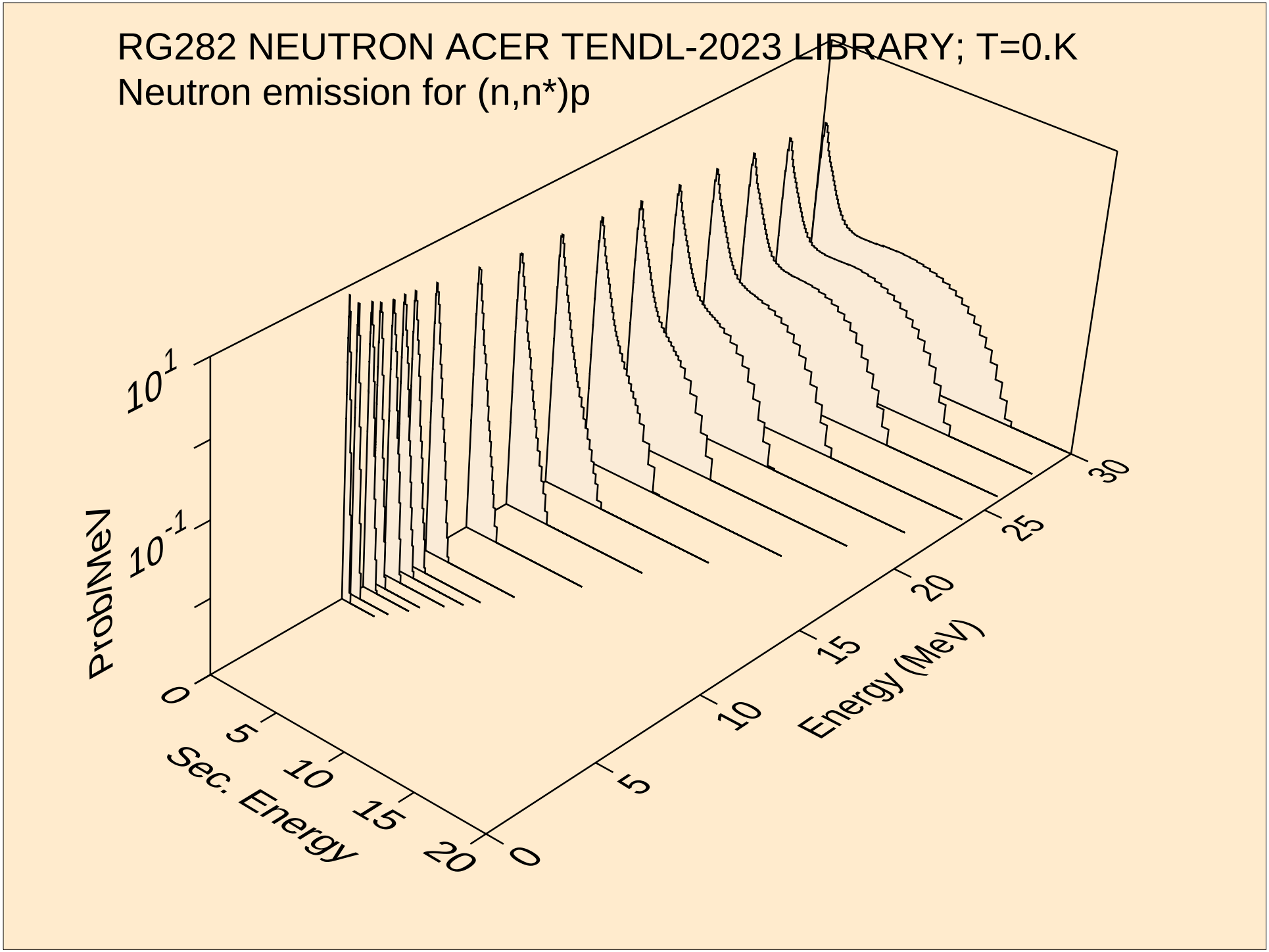

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Total fission nubar
Fission nubar
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
0
50
100
150
200
Energy (MeV)

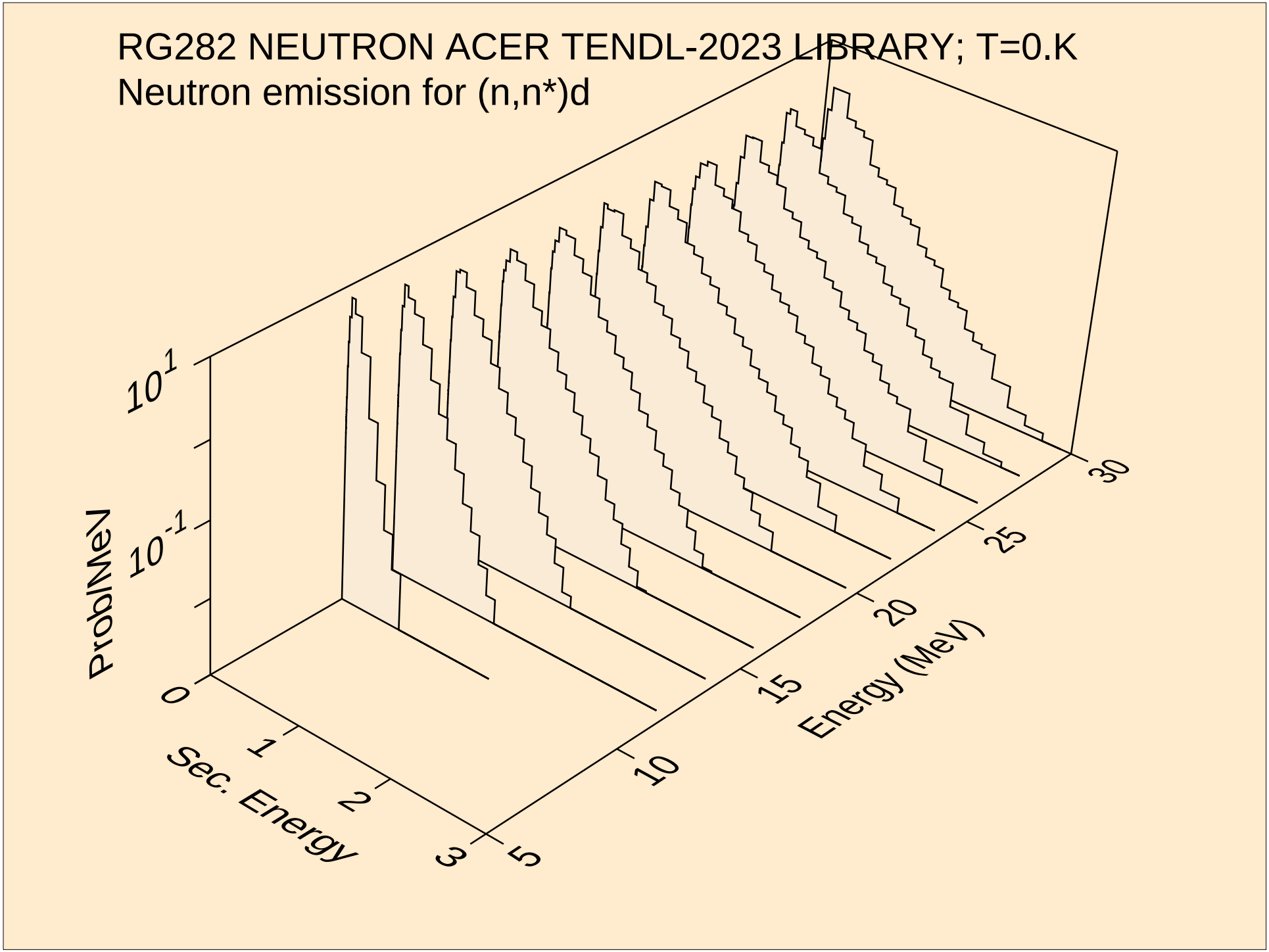

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,x)
Prob/MeV
10-2
10-4
0
50
100
150
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

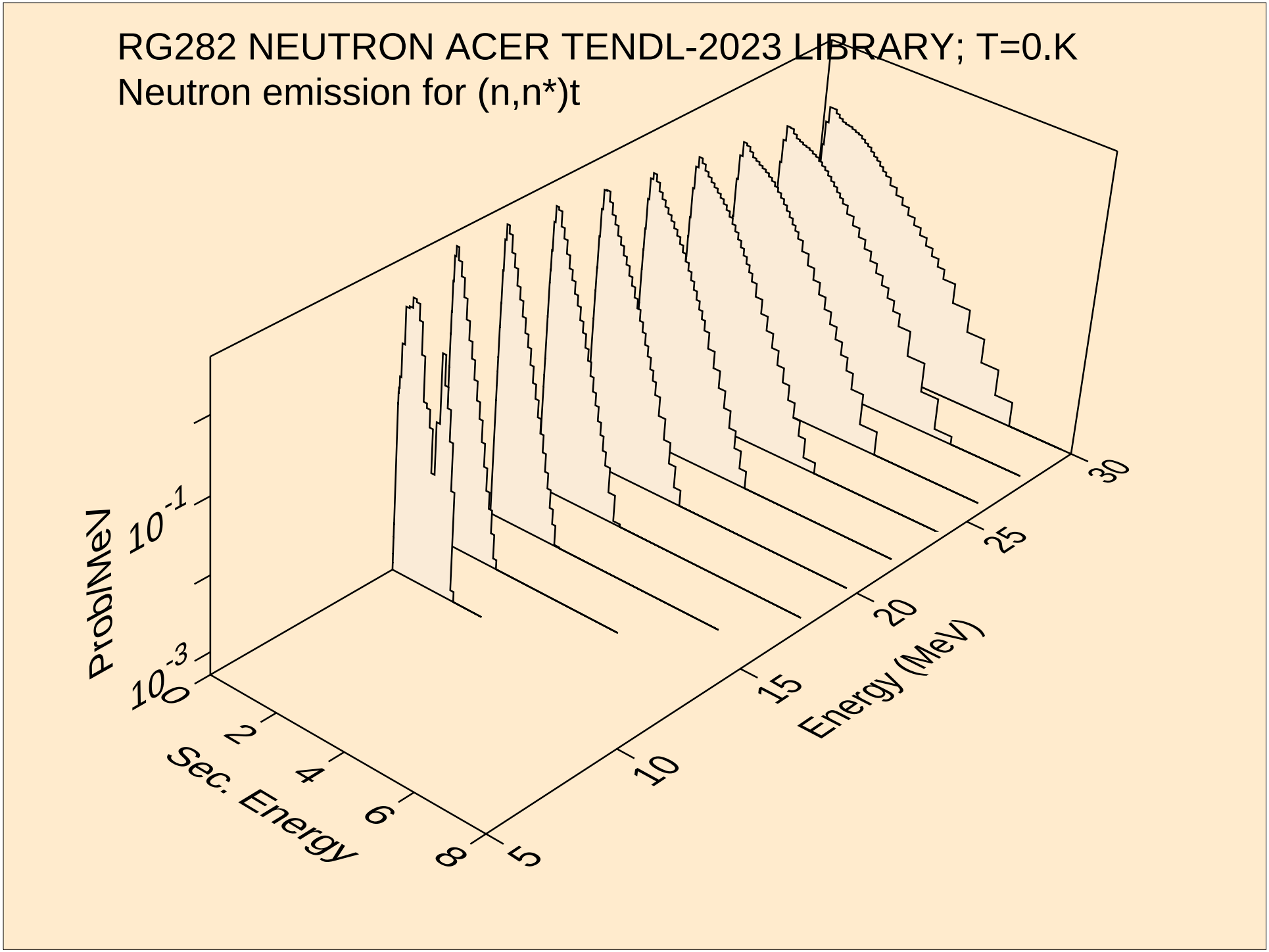

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2nd)
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

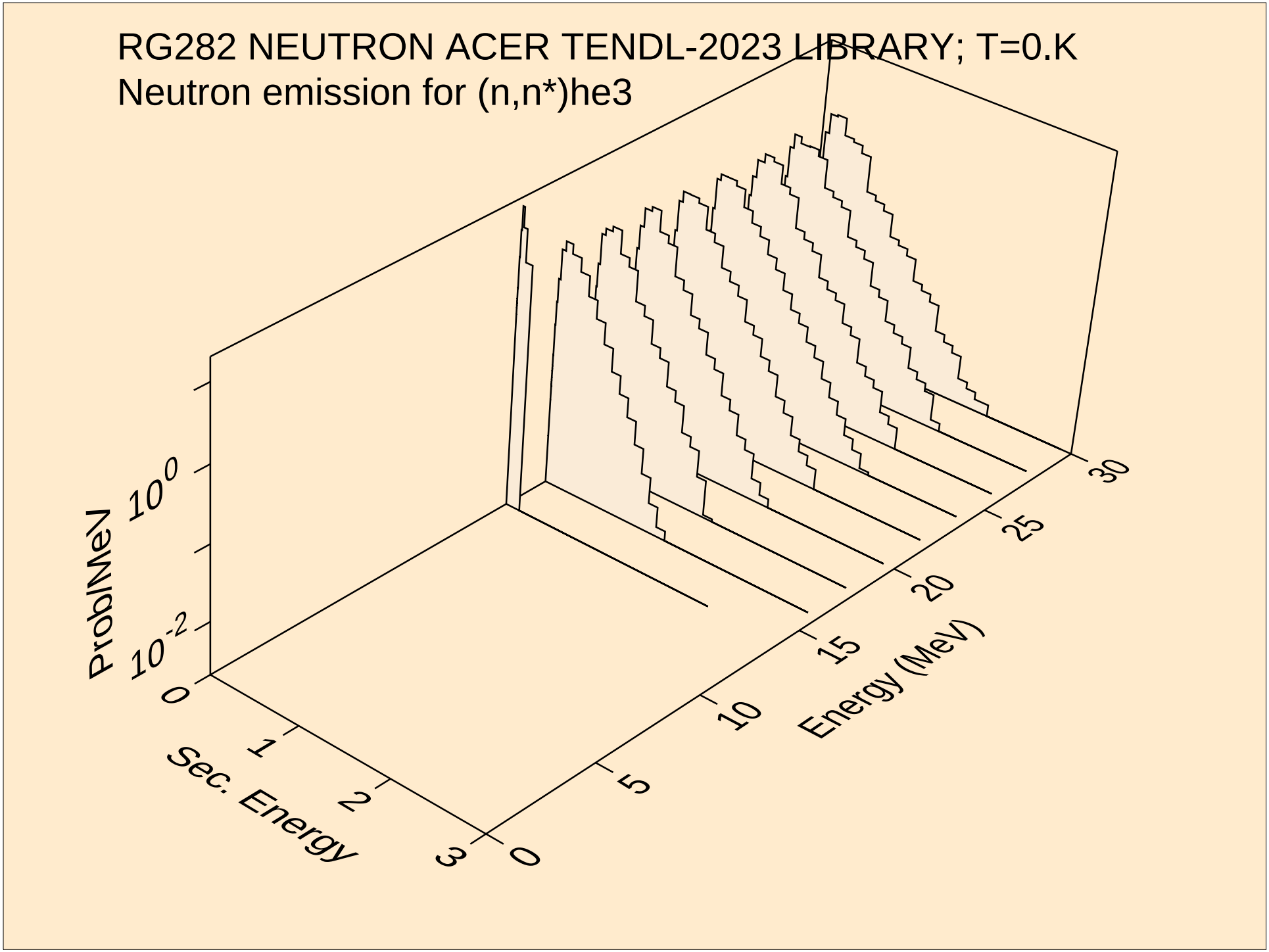

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

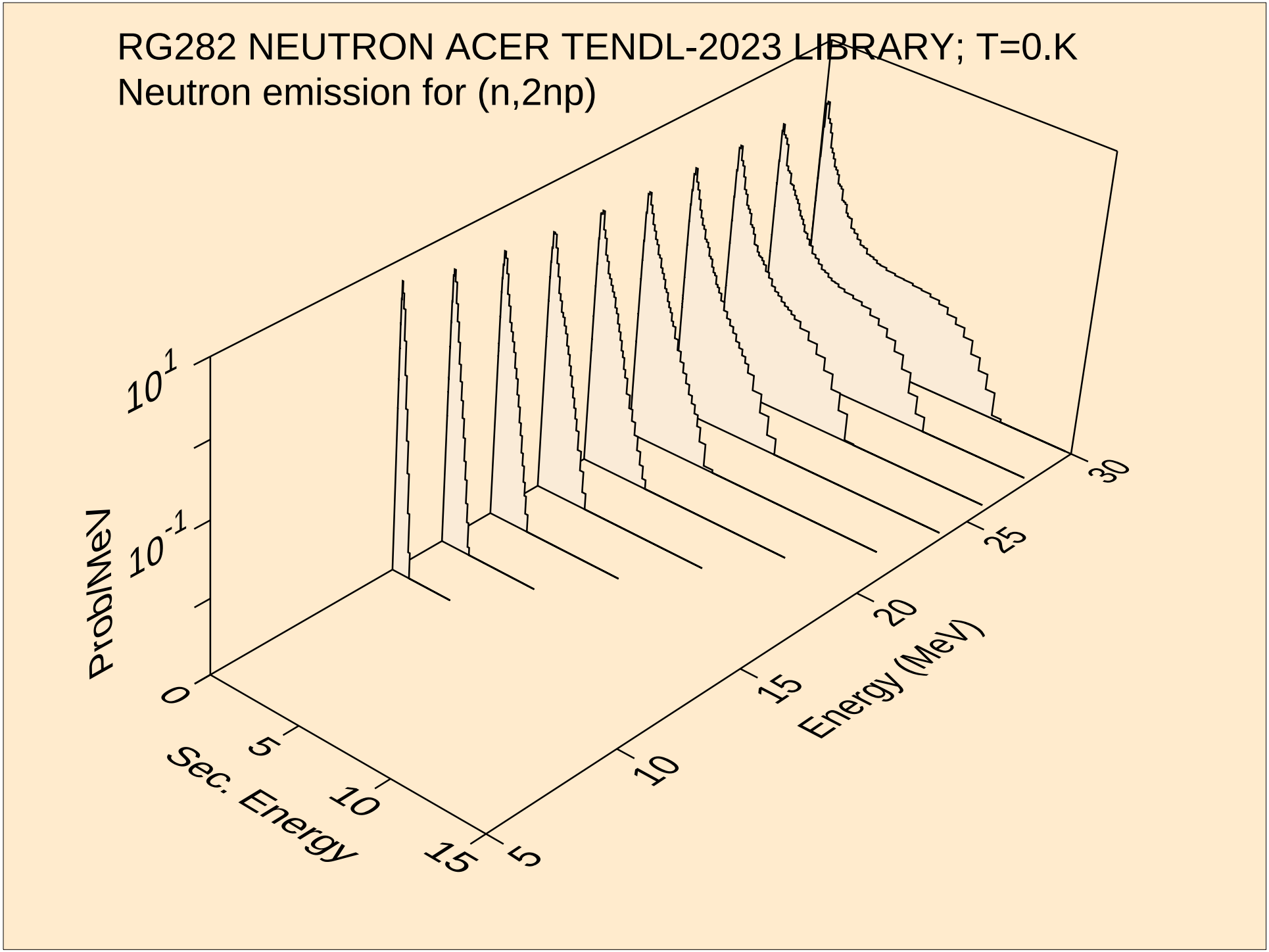

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for fission
Prob/MeV
10-2
10-4
0
5
10
15
20
Sec. Energy
0
5
10
15
20
Energy (MeV)

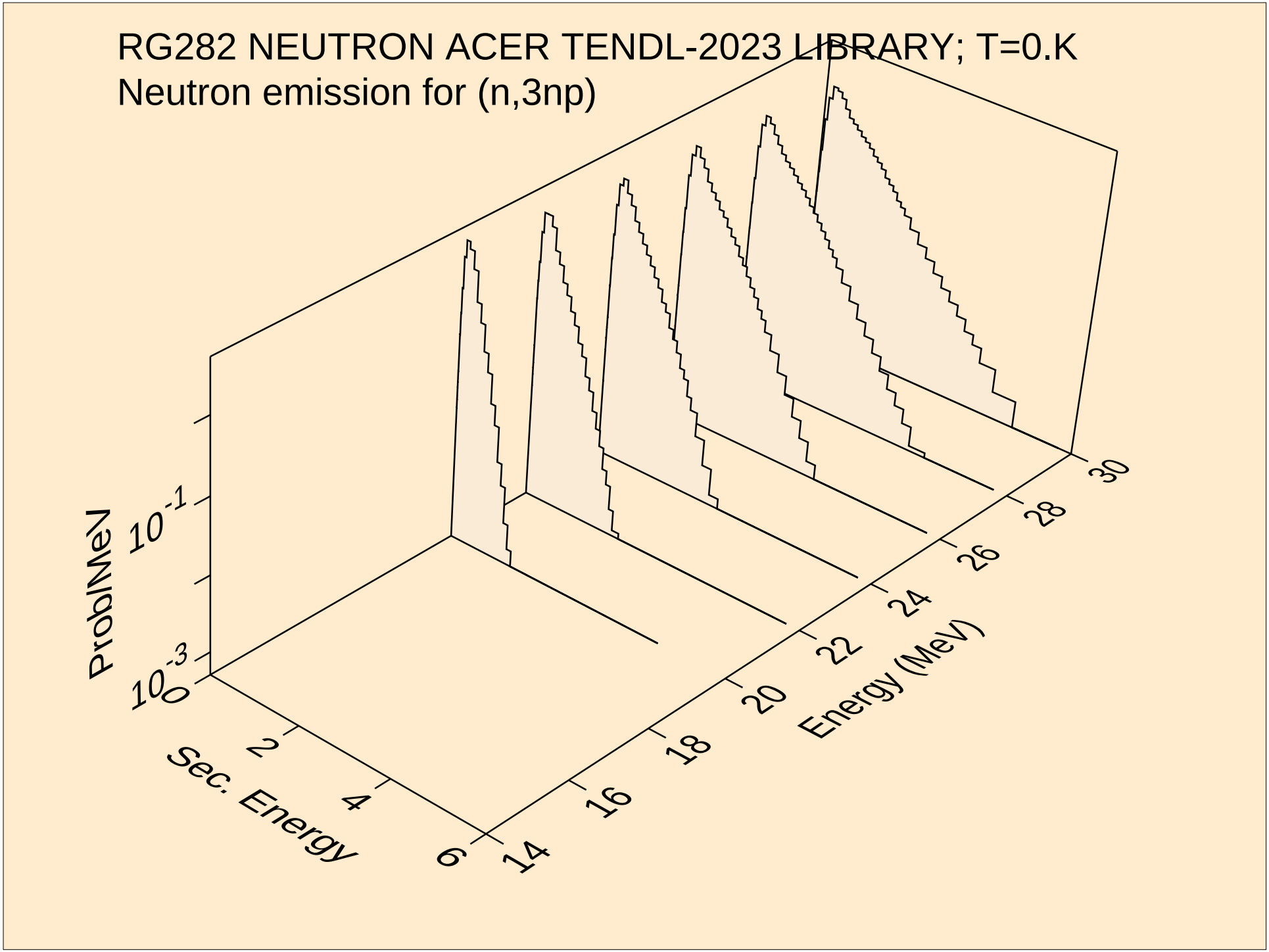

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)p
Prob/MeV
10^1
10^-1
0
5
10
15
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

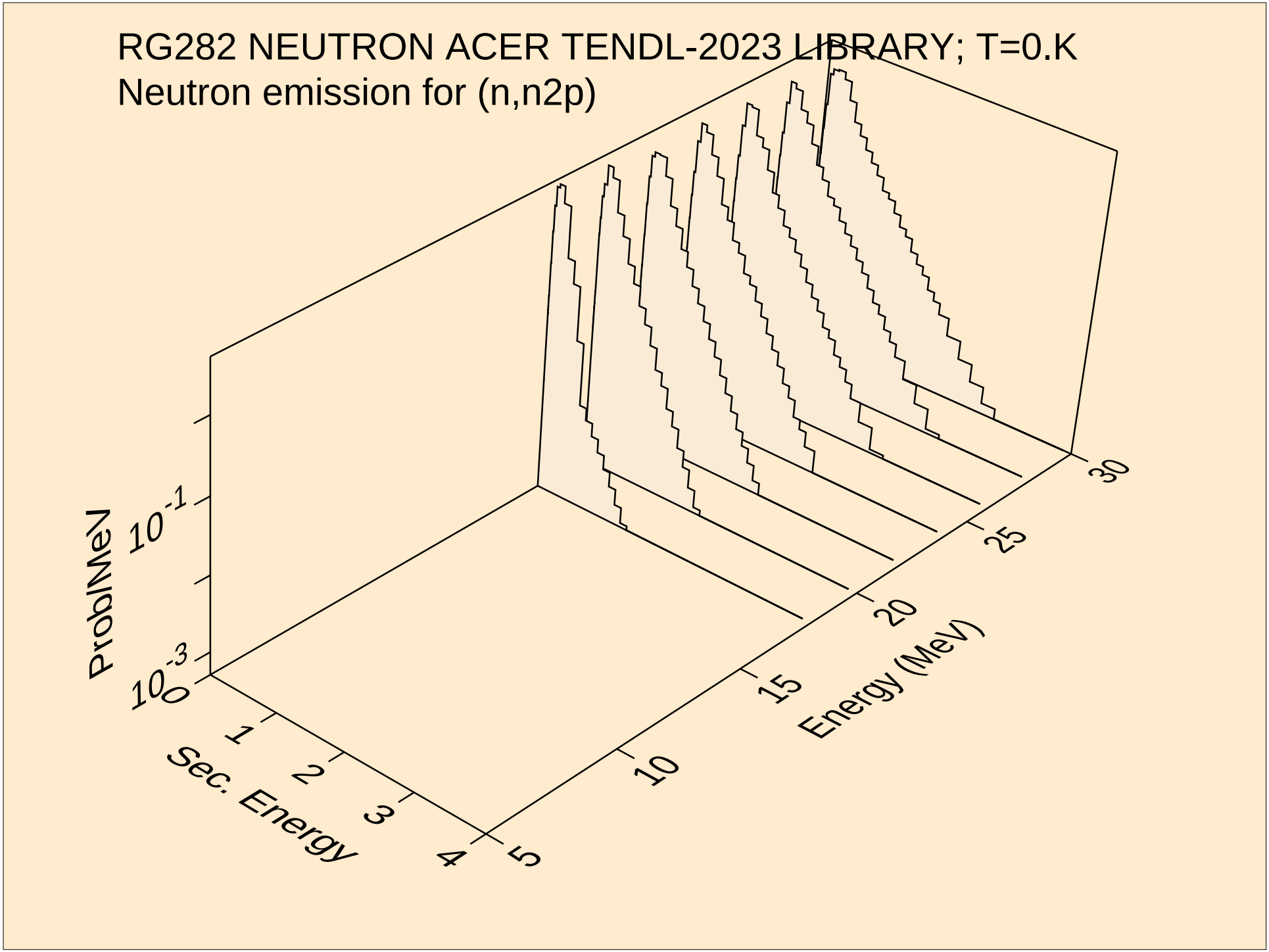

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)d
Prob/MeV
10^1
10^-1
0
Sec. Energy
1
2
3
5
10
15
20
25
30
Energy (MeV)

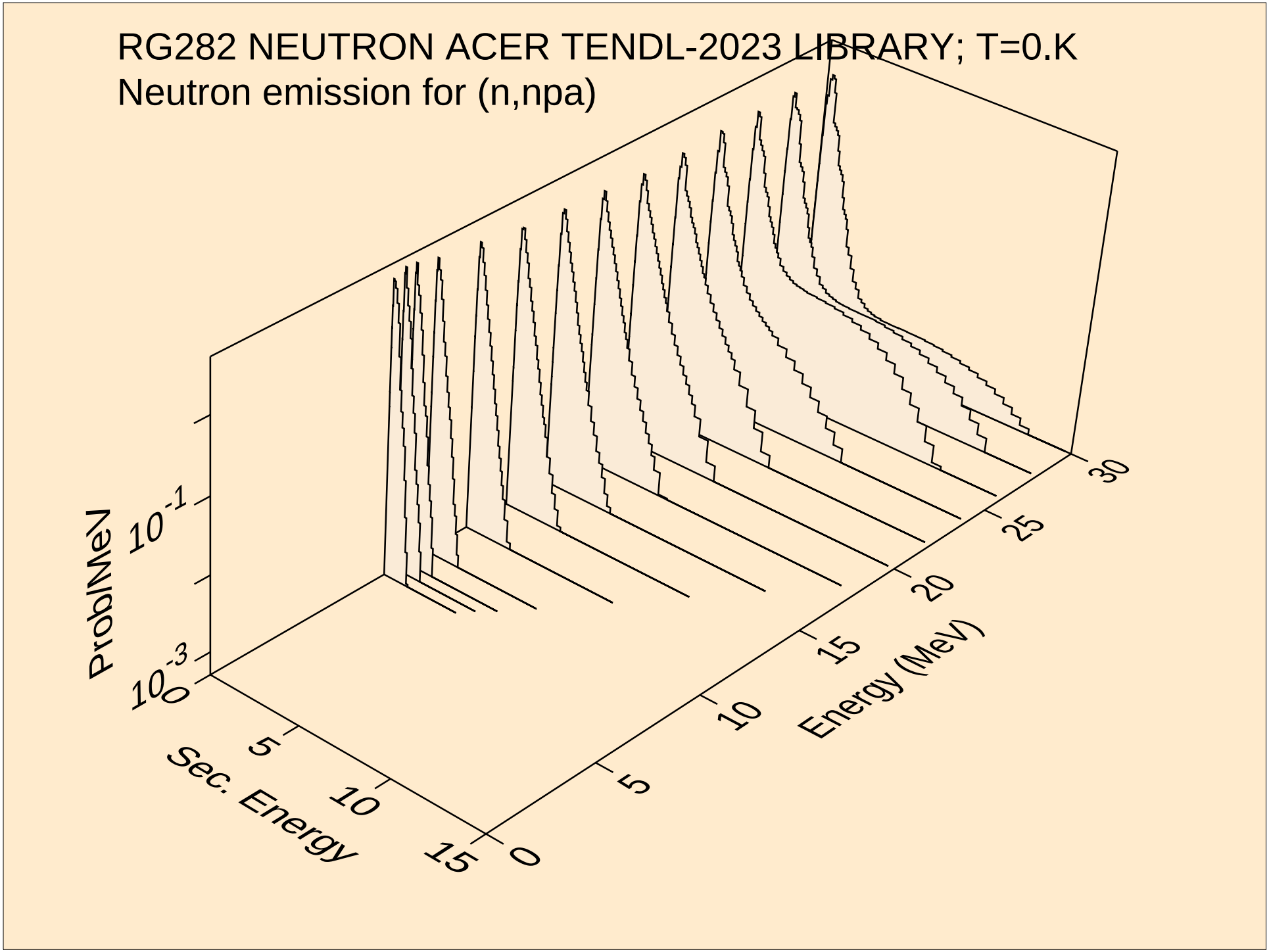

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)t
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

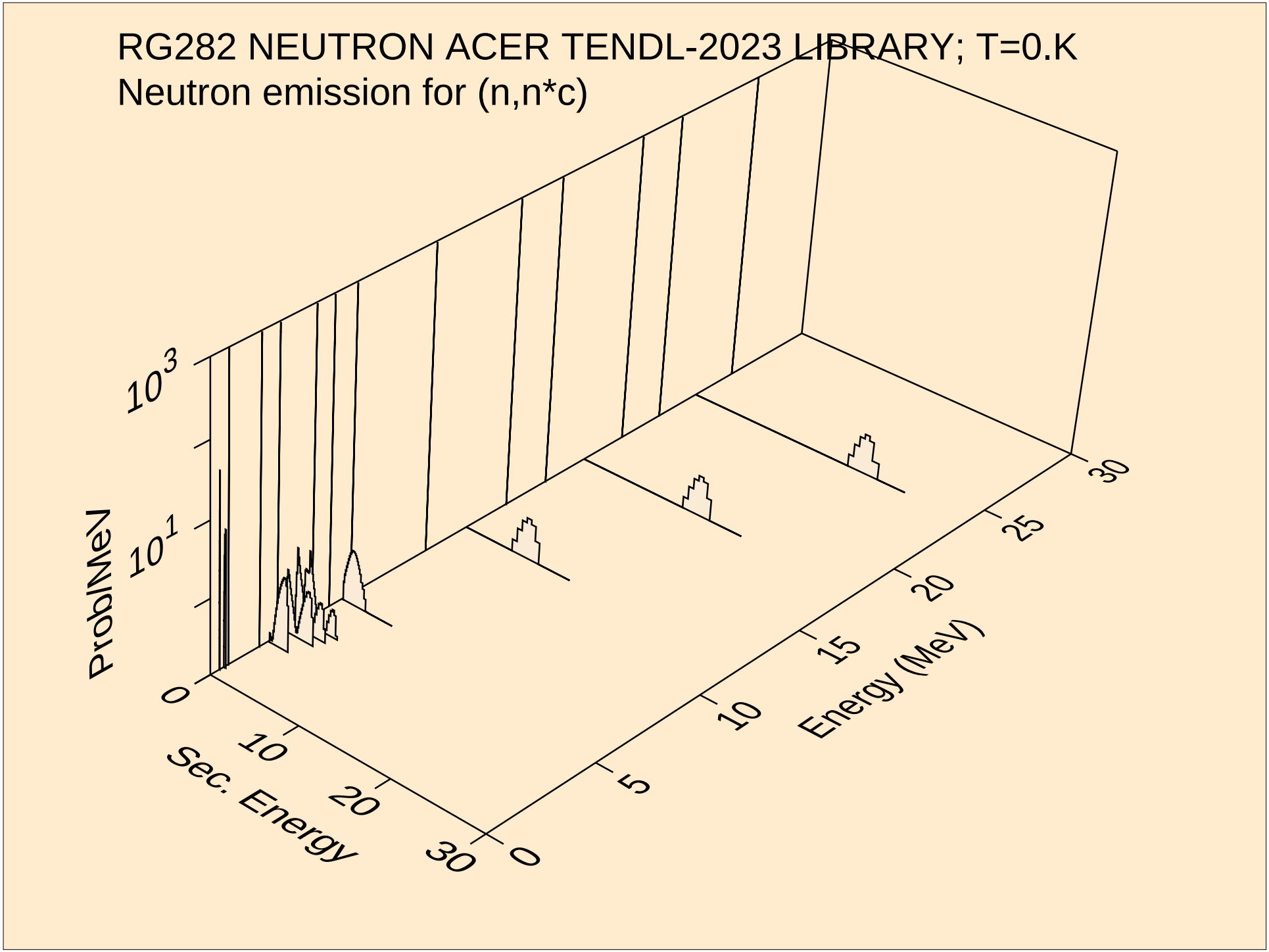

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)he3
Prob/MeV
10^0
10^-2
0
1
2
3
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

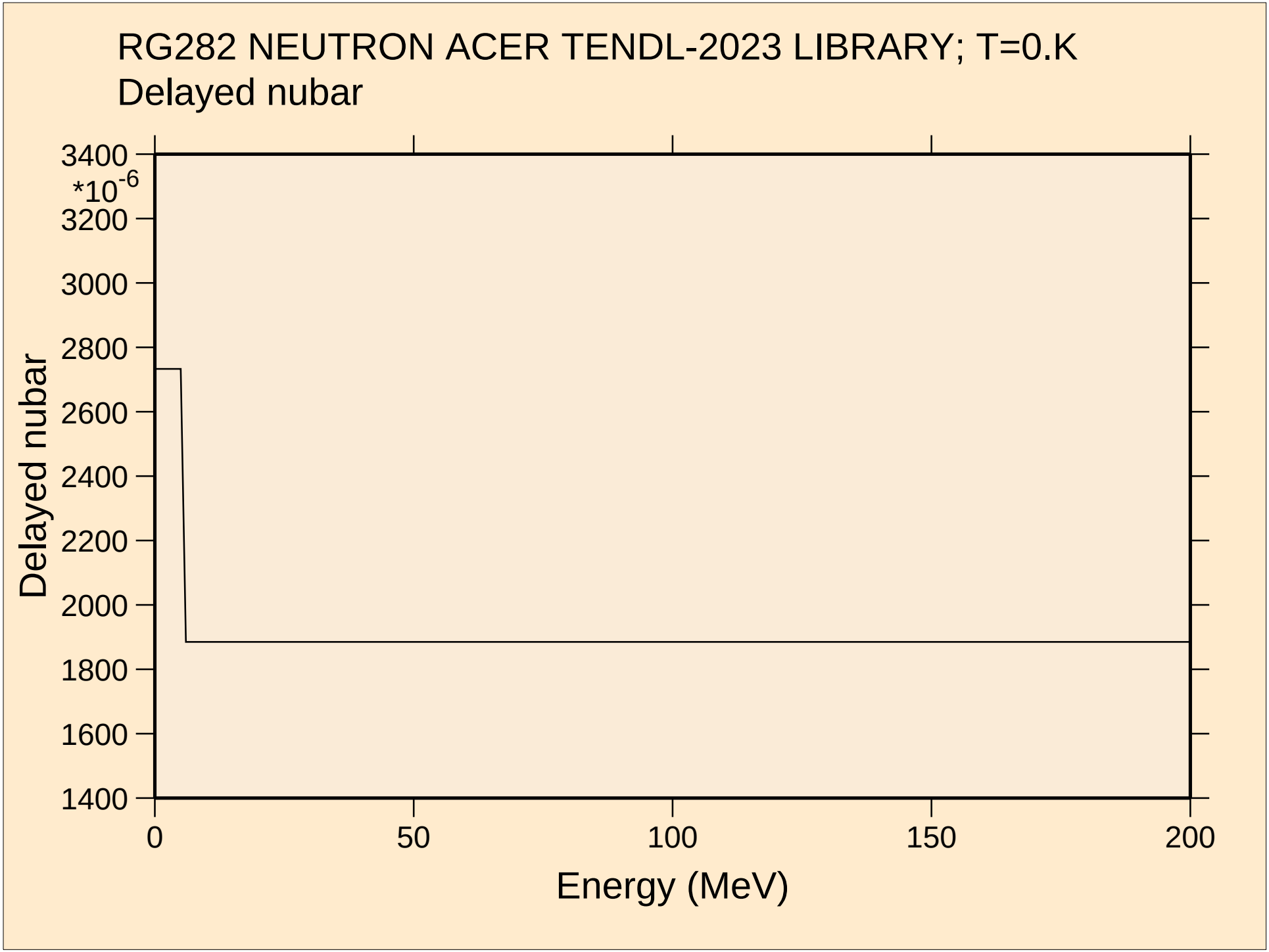

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2np)
Prob/MeV
10^1
10^-1
0
5
10
15
Sec. Energy
5
10
15
20
25
30
Energy (MeV)

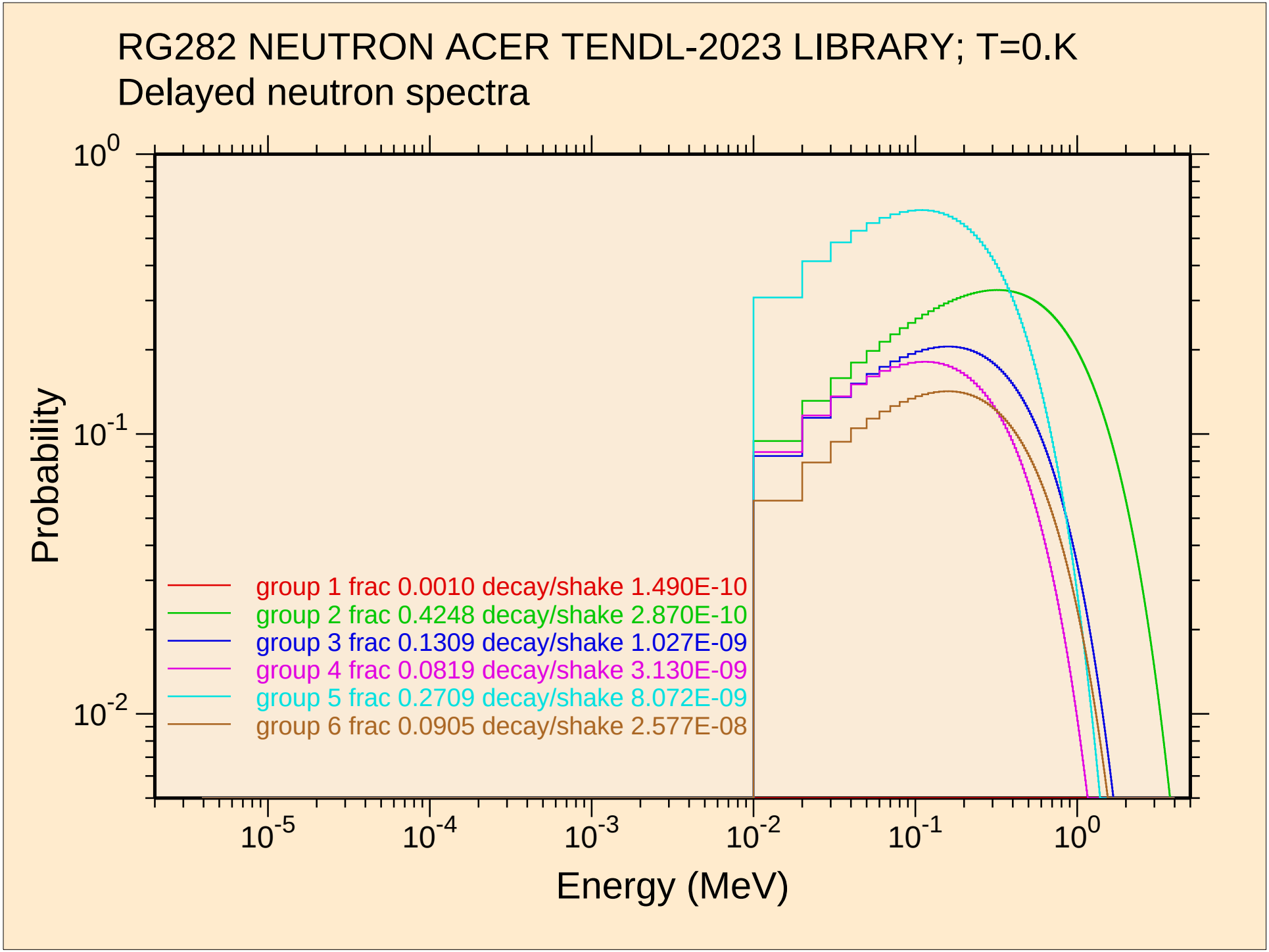

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3np)
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
14
16
18
20
22
24
26
28
30
Energy (MeV)

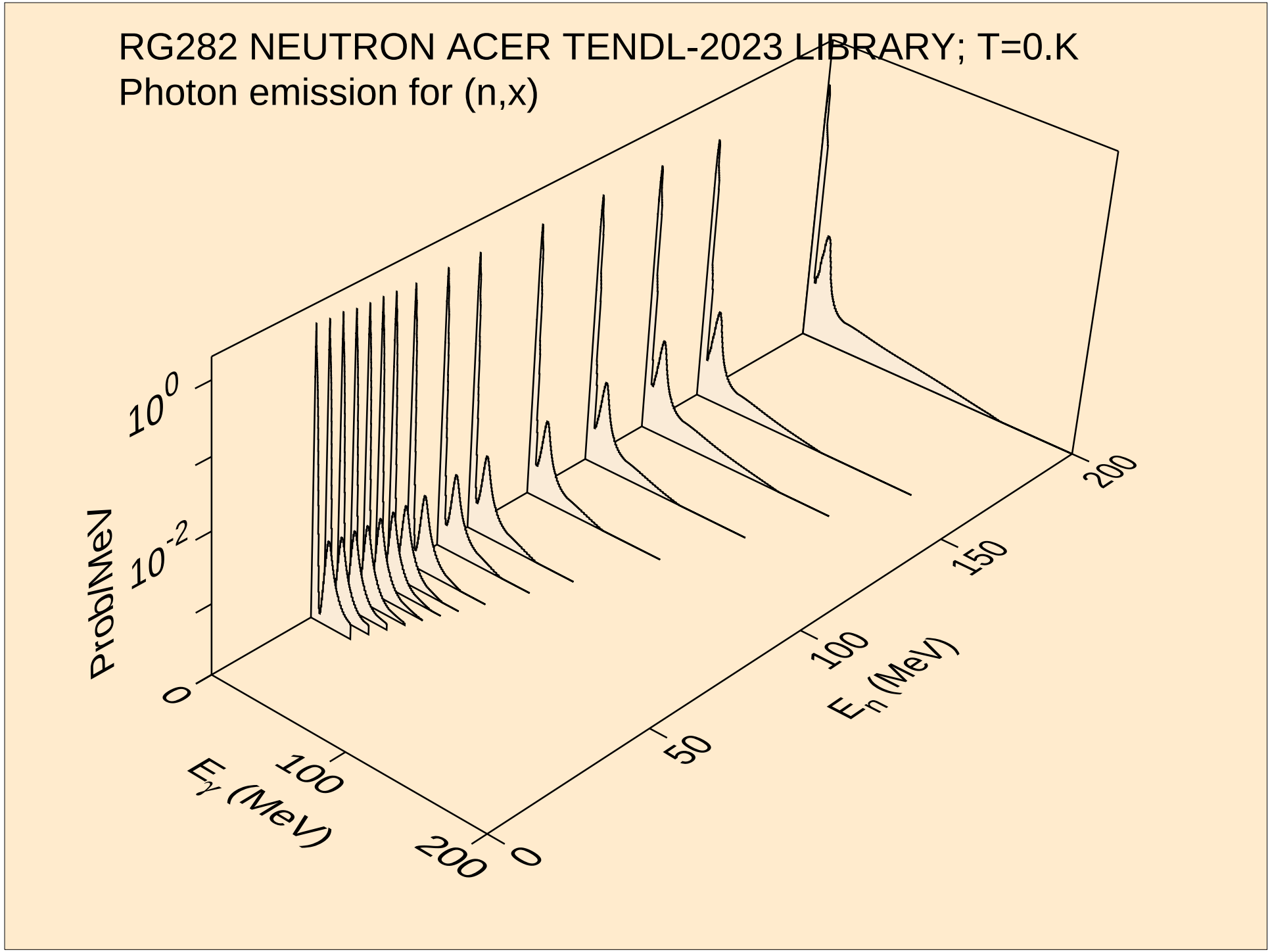

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n2p)
Prob/MeV
10-1
10-3
0
1
2
3
4
5
Sec. Energy
10
15
20
25
30
Energy (MeV)

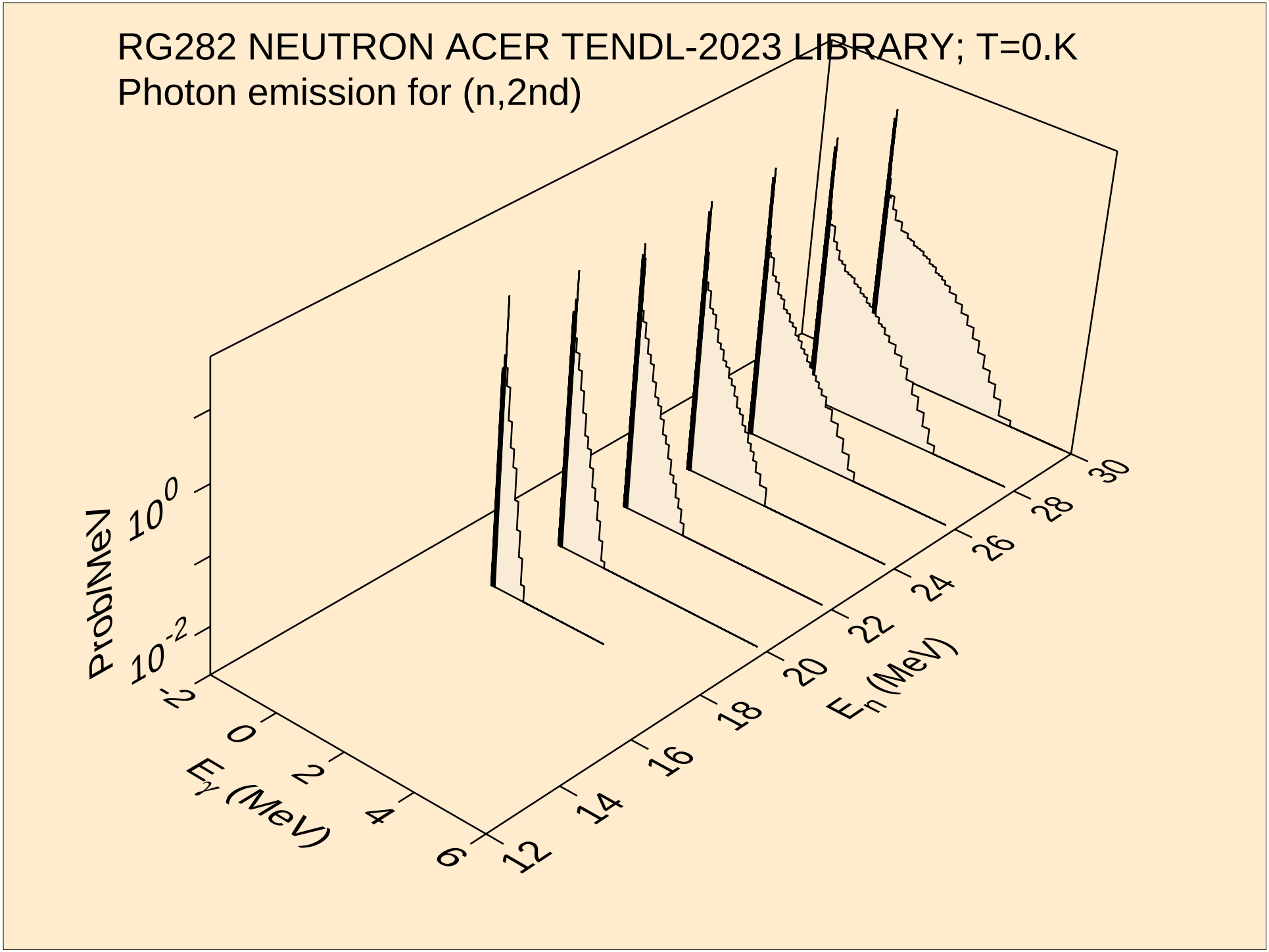

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,npa)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

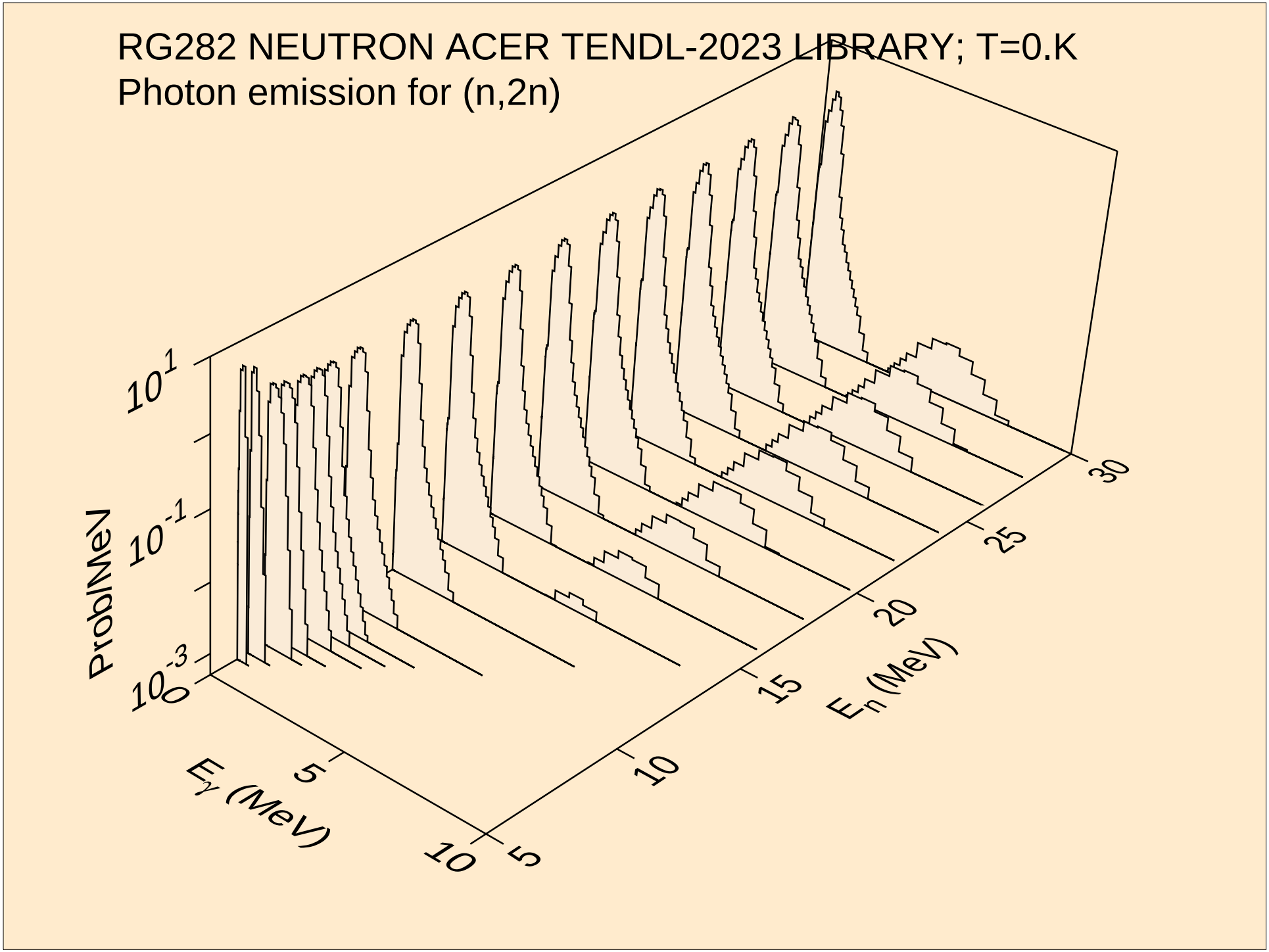

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*c)
Prob/MeV
10^3
10^1
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

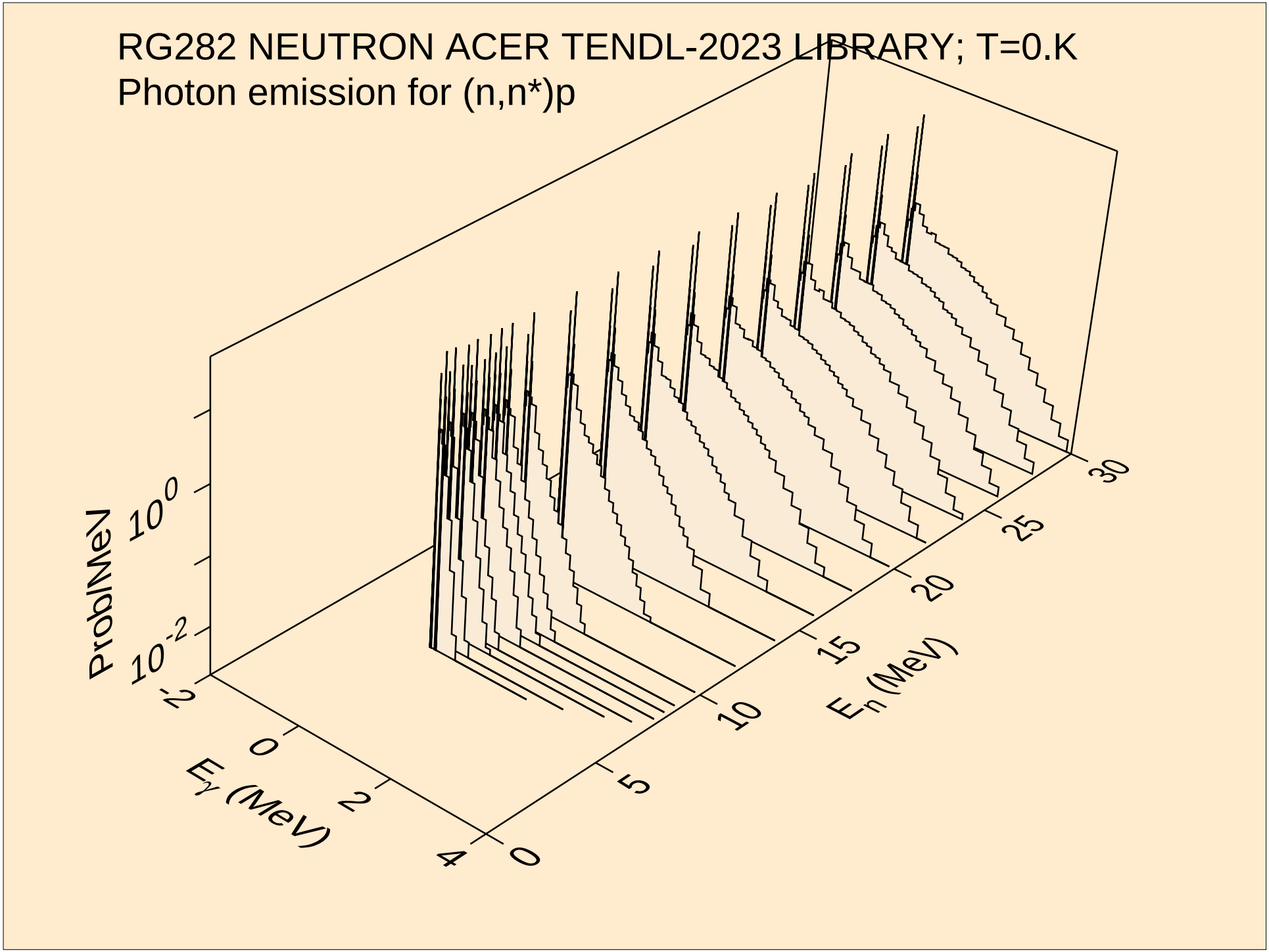

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Delayed nubar
Delayed nubar
*10-6
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
0
50
100
150
200
Energy (MeV)

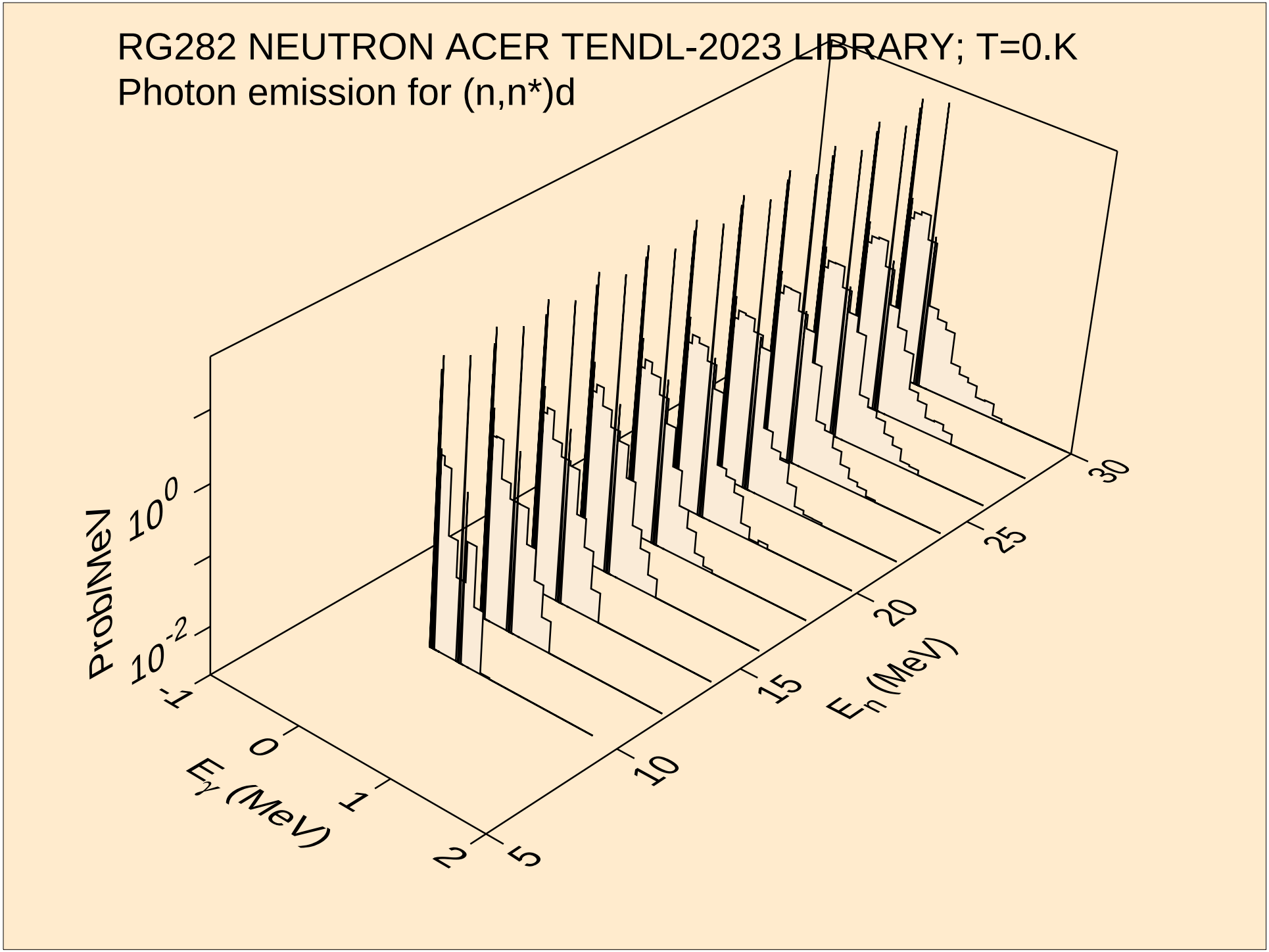

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Delayed neutron spectra
Probability
Energy (MeV)
group 1 frac 0.0010 decay/shake 1.490E-10
group 2 frac 0.4248 decay/shake 2.870E-10
group 3 frac 0.1309 decay/shake 1.027E-09
group 4 frac 0.0819 decay/shake 3.130E-09
group 5 frac 0.2709 decay/shake 8.072E-09
group 6 frac 0.0905 decay/shake 2.577E-08

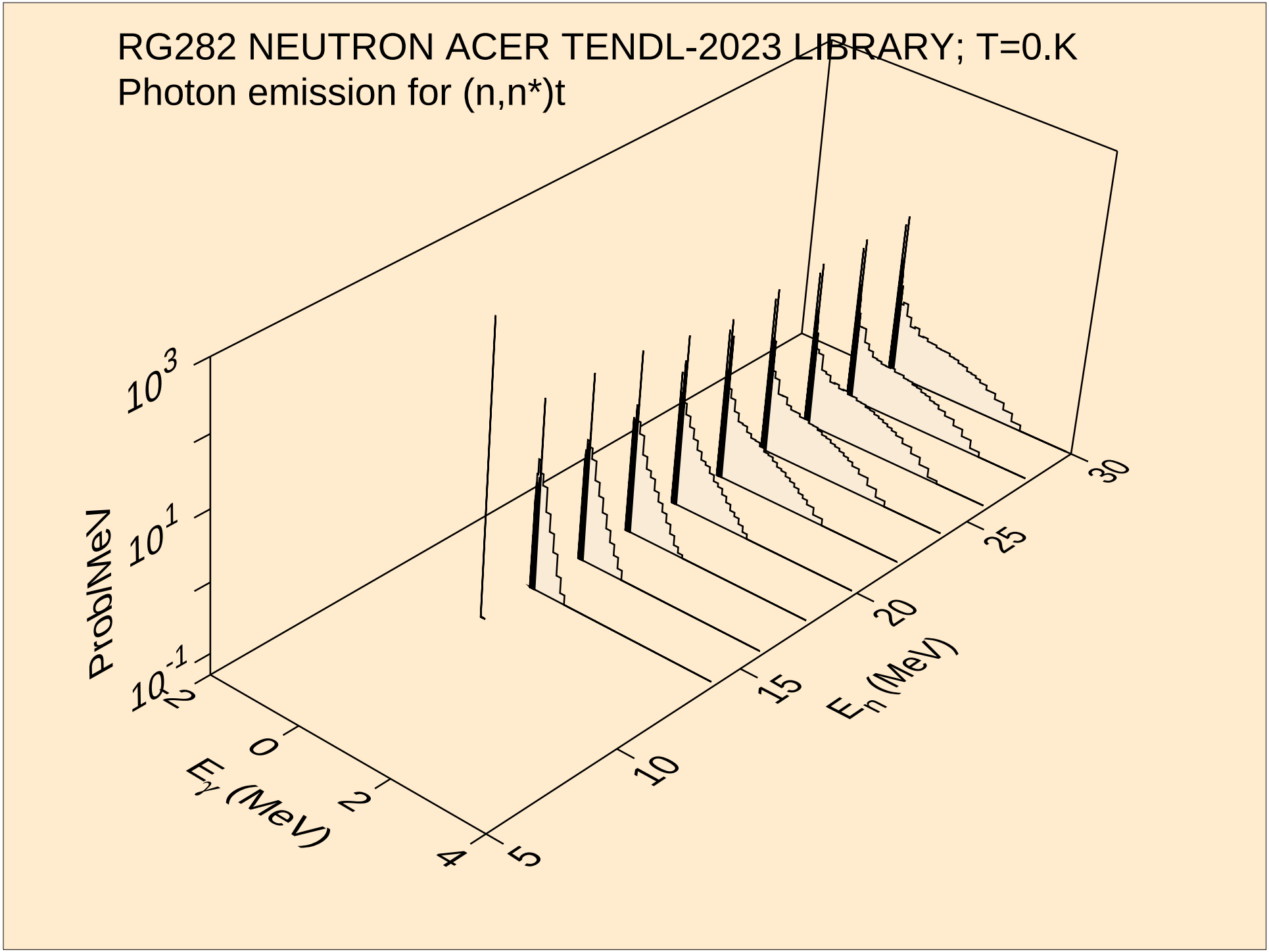

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,x)
Prob/MeV
10^0
10^-2
0
100
200
Eγ (MeV)
0
50
100
150
200
En (MeV)

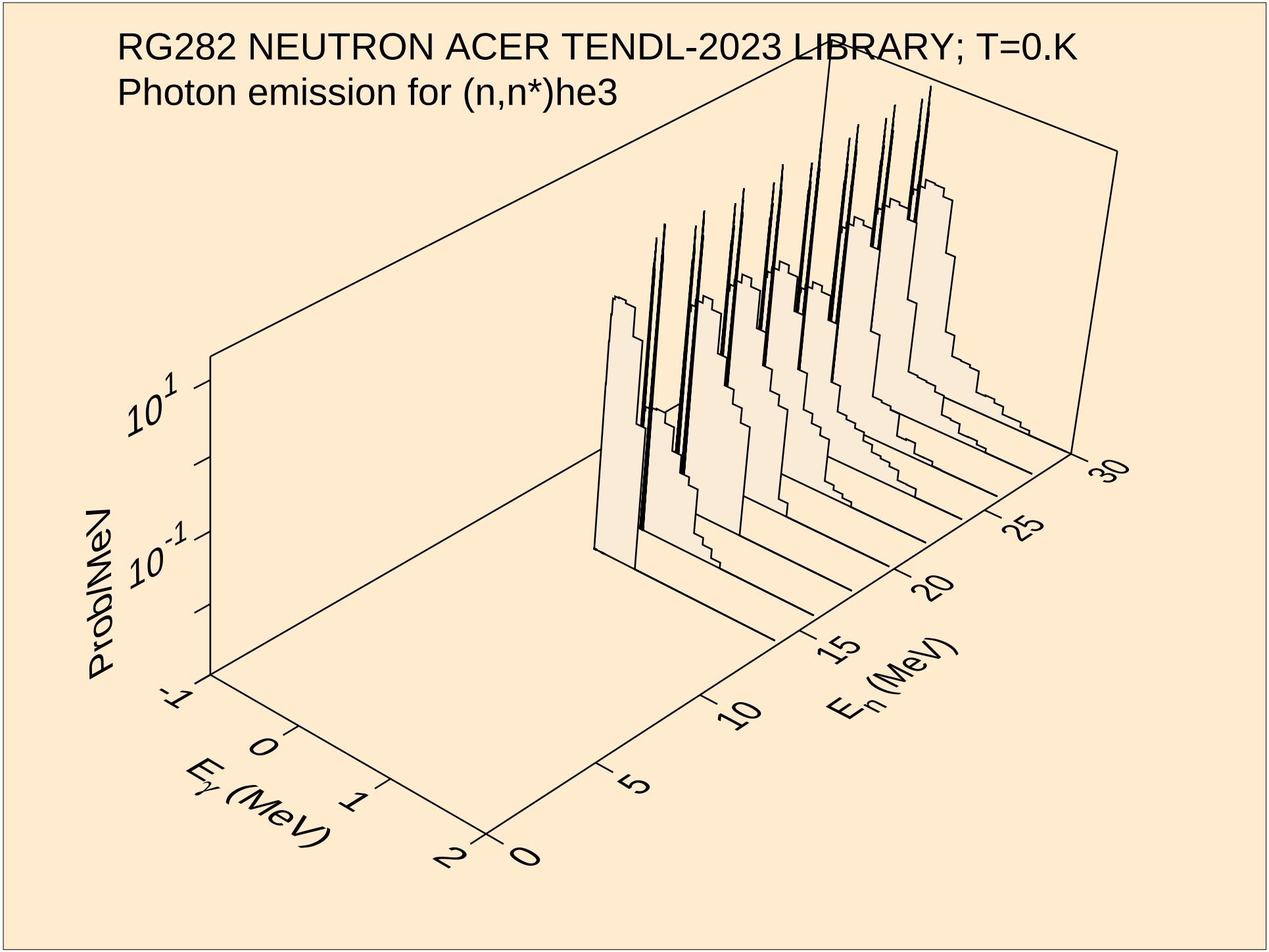

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2nd)
Prob/MeV
10^{0}
10^{-2}
-2
0
2
4
6
E_γ (MeV)
12
14
16
18
20
22
24
26
28
30
E_n (MeV)

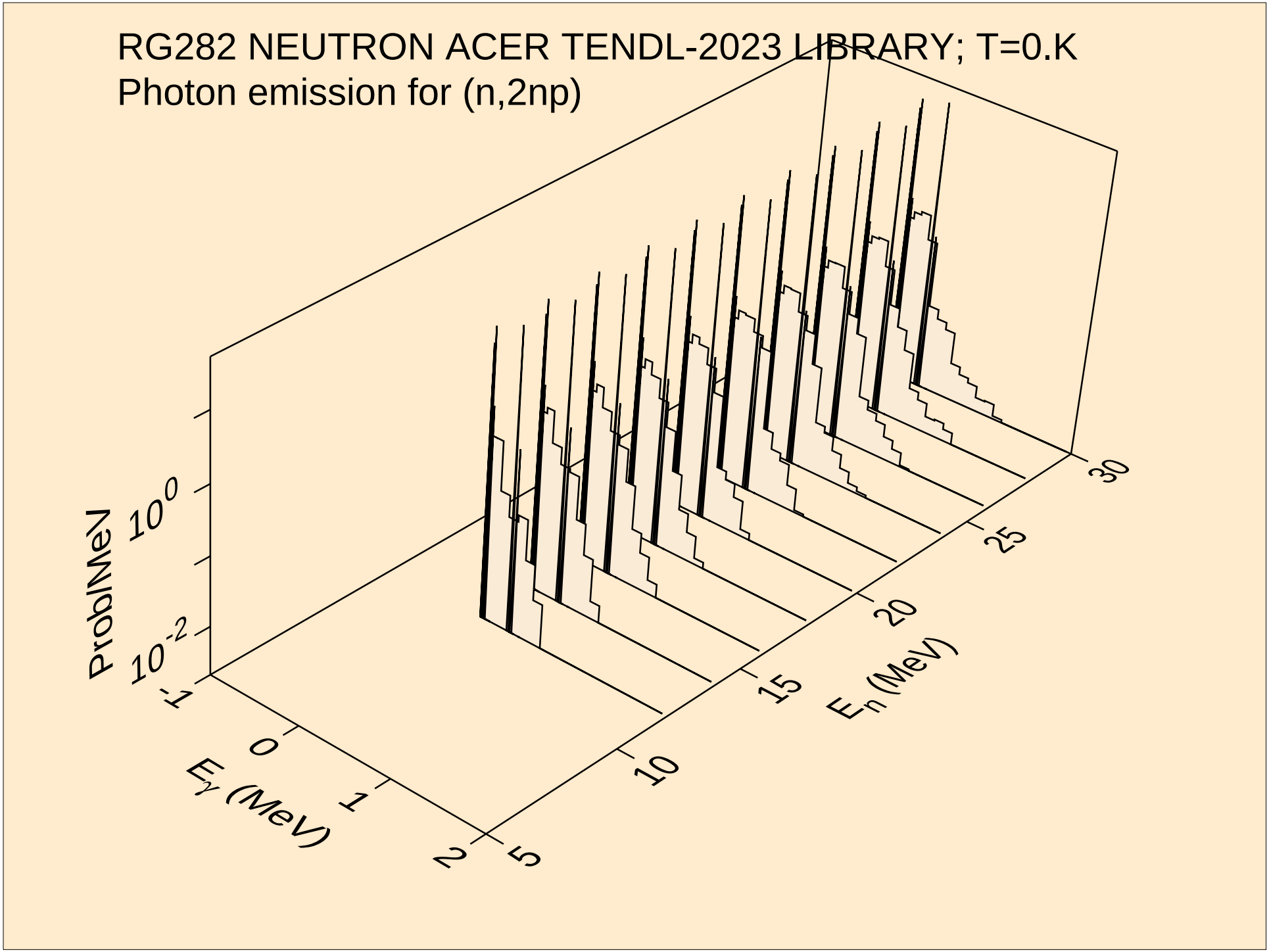

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)
Prob/MeV
10^1
10^-1
10^-3
0
5
10
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

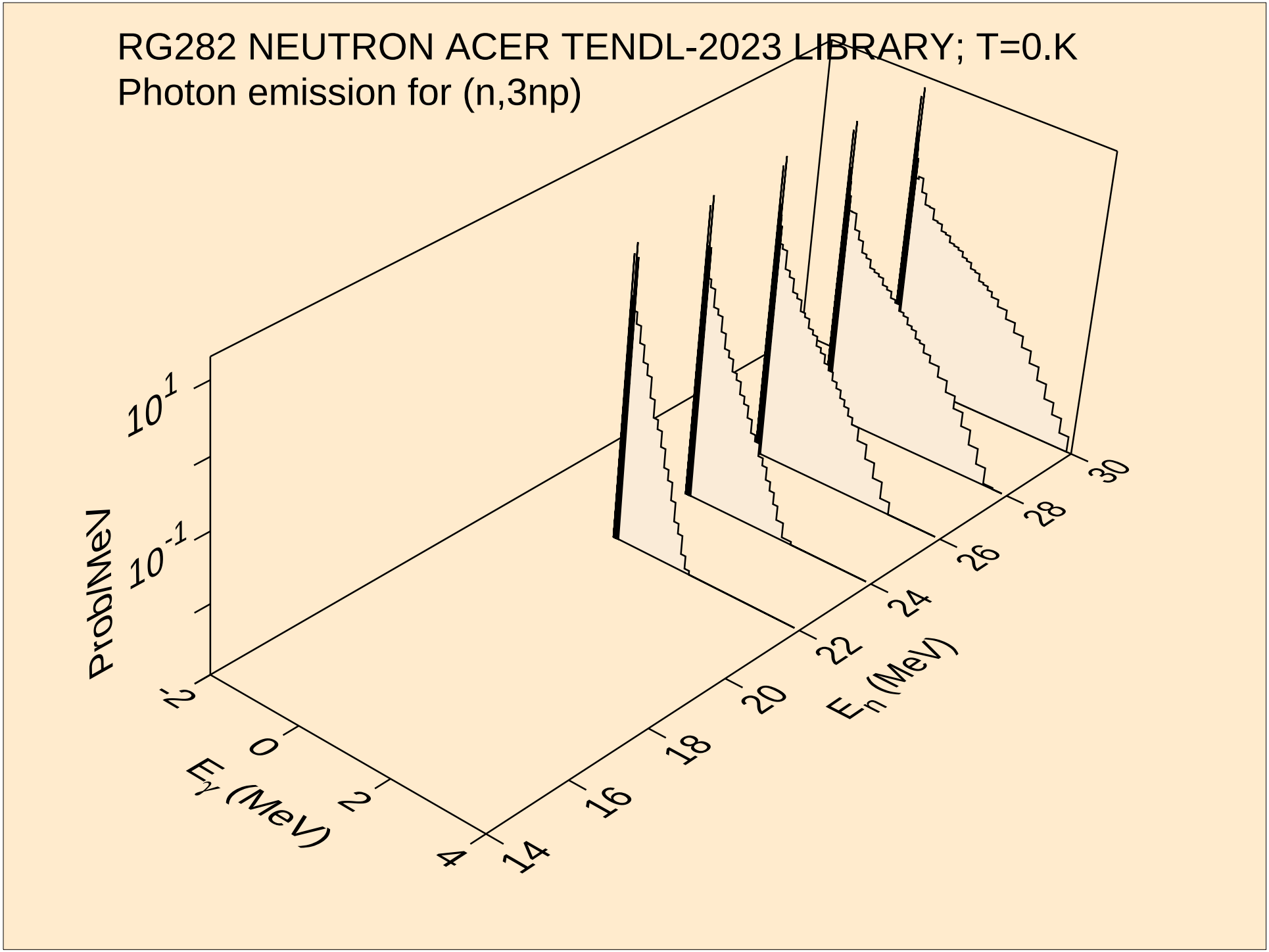

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p
Prob/MeV
10^0
10^-2
E_γ (MeV)
-2
0
2
4
E_n (MeV)
0
5
10
15
20
25
30

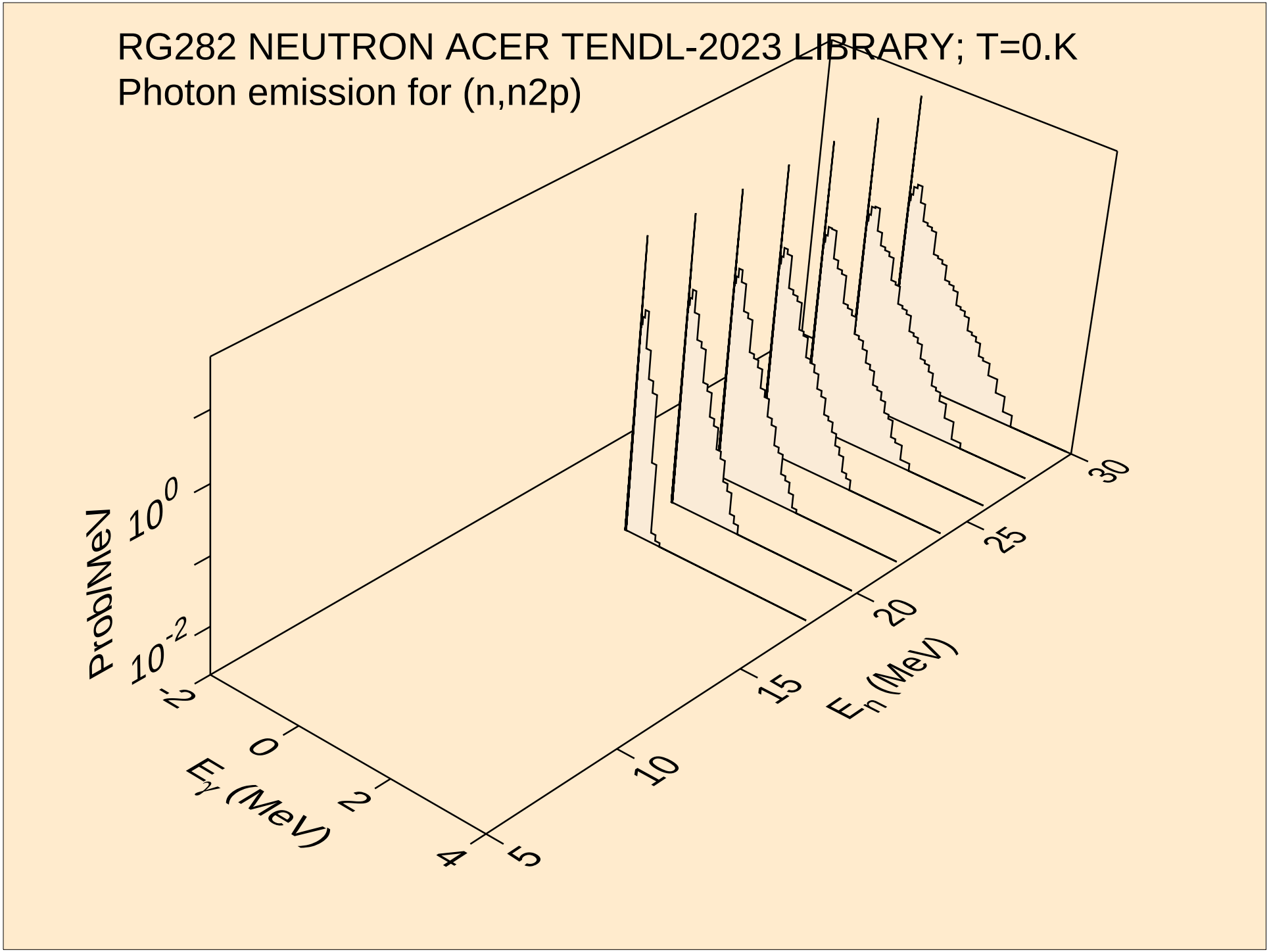

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d
Prob/MeV
10^0
10^-2
E_γ (MeV)
-1
0
1
2
E_n (MeV)
5
10
15
20
25
30

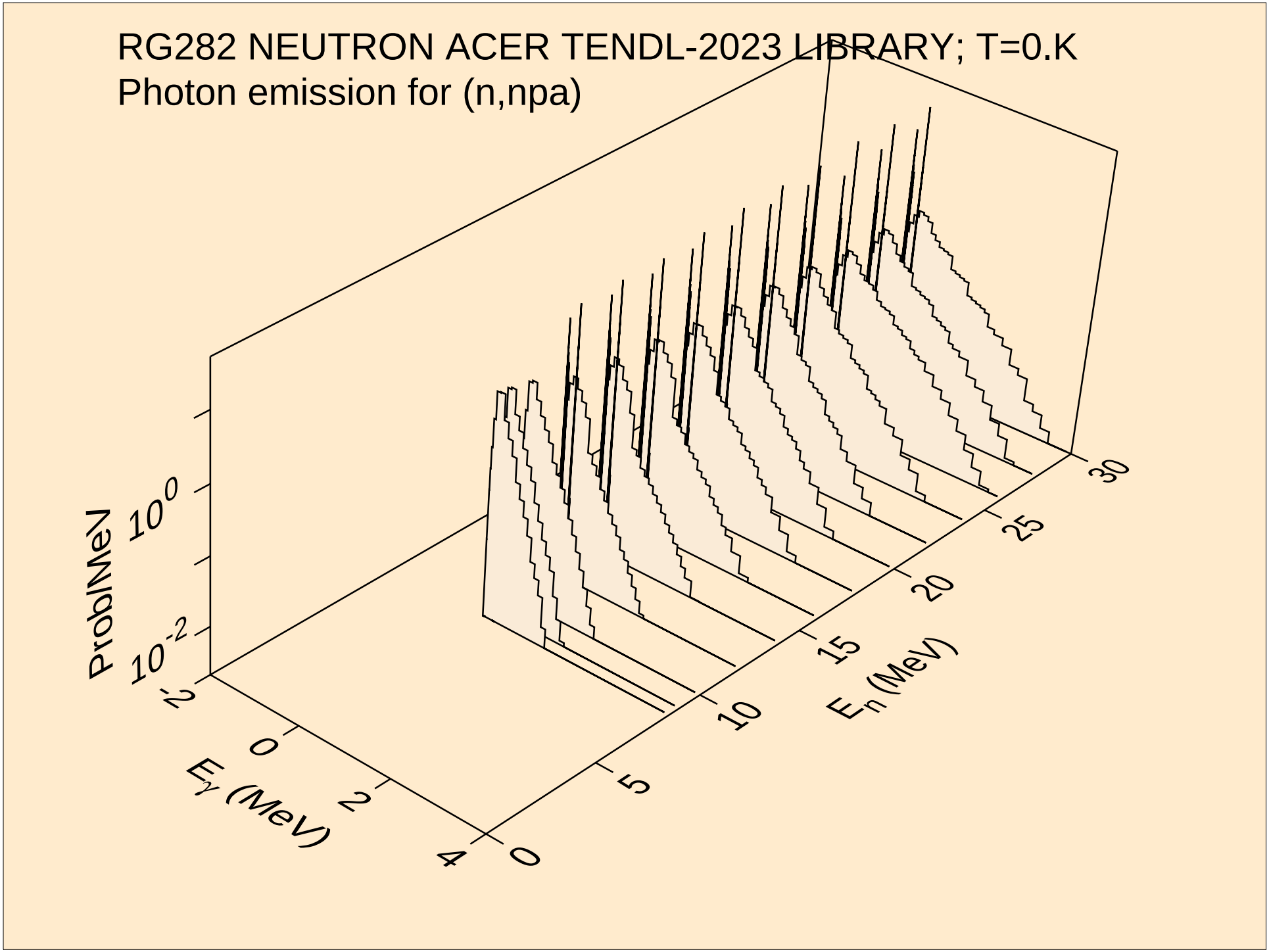

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)t
Prob/MeV
10^{3}
10^{1}
10^{-1}
E_γ (MeV)
-2
0
2
4
5
10
15
20
25
30
E_n (MeV)

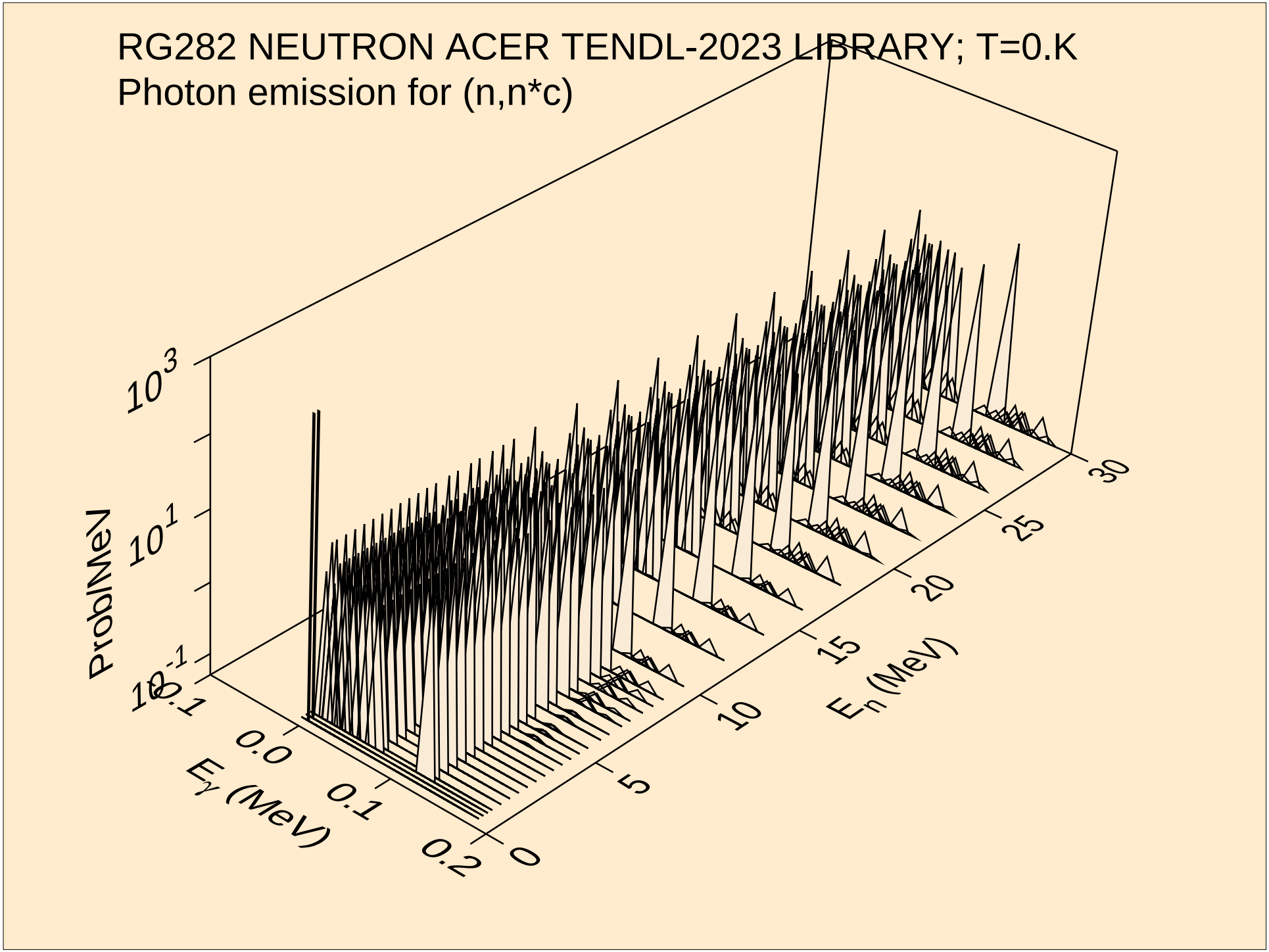

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)he3
Prob/MeV
10^{1}
10^{-1}
-1
0
1
2
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

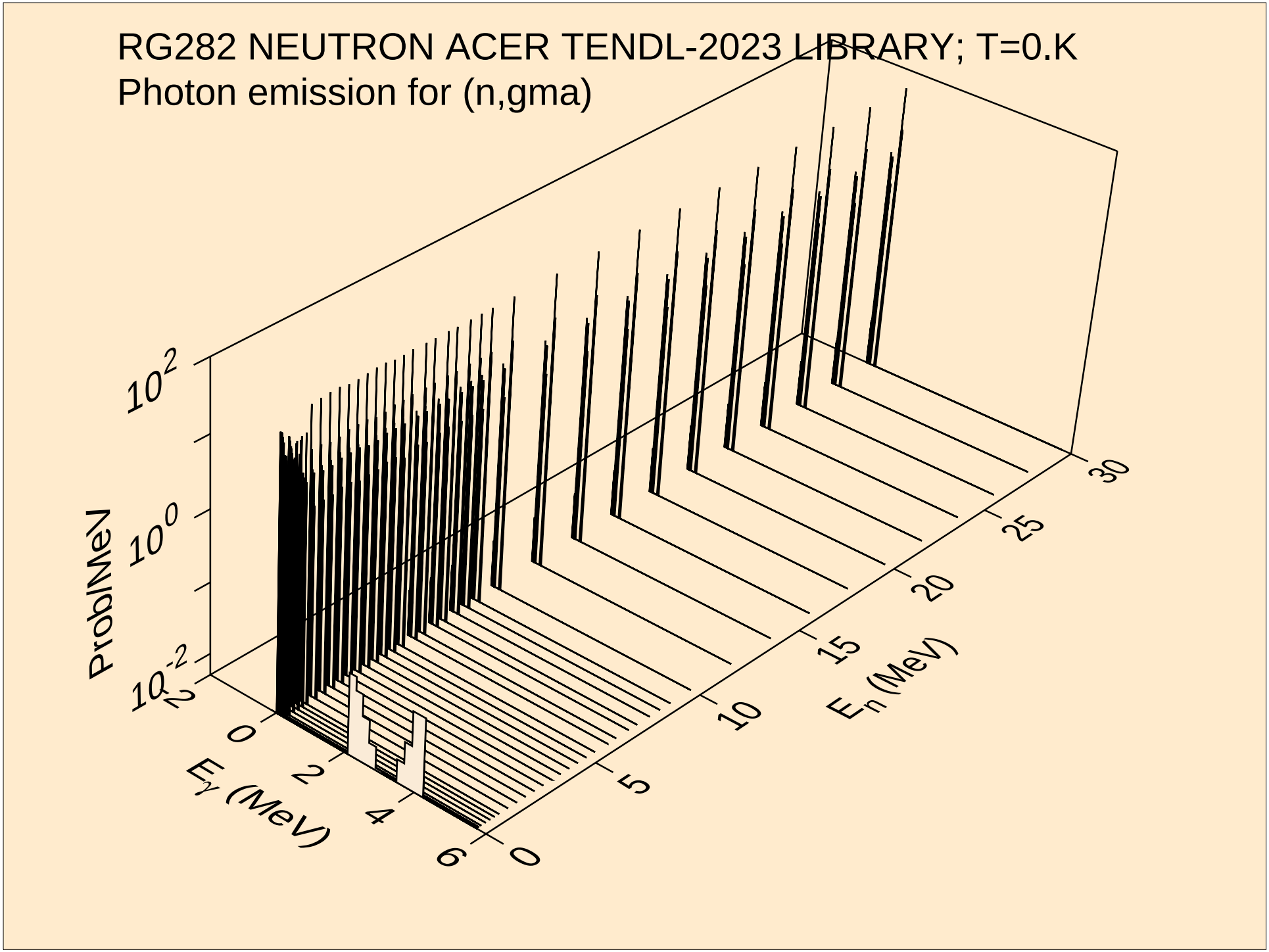

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)
Prob/MeV
10^{0}
10^{-2}
-1
0
1
2
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

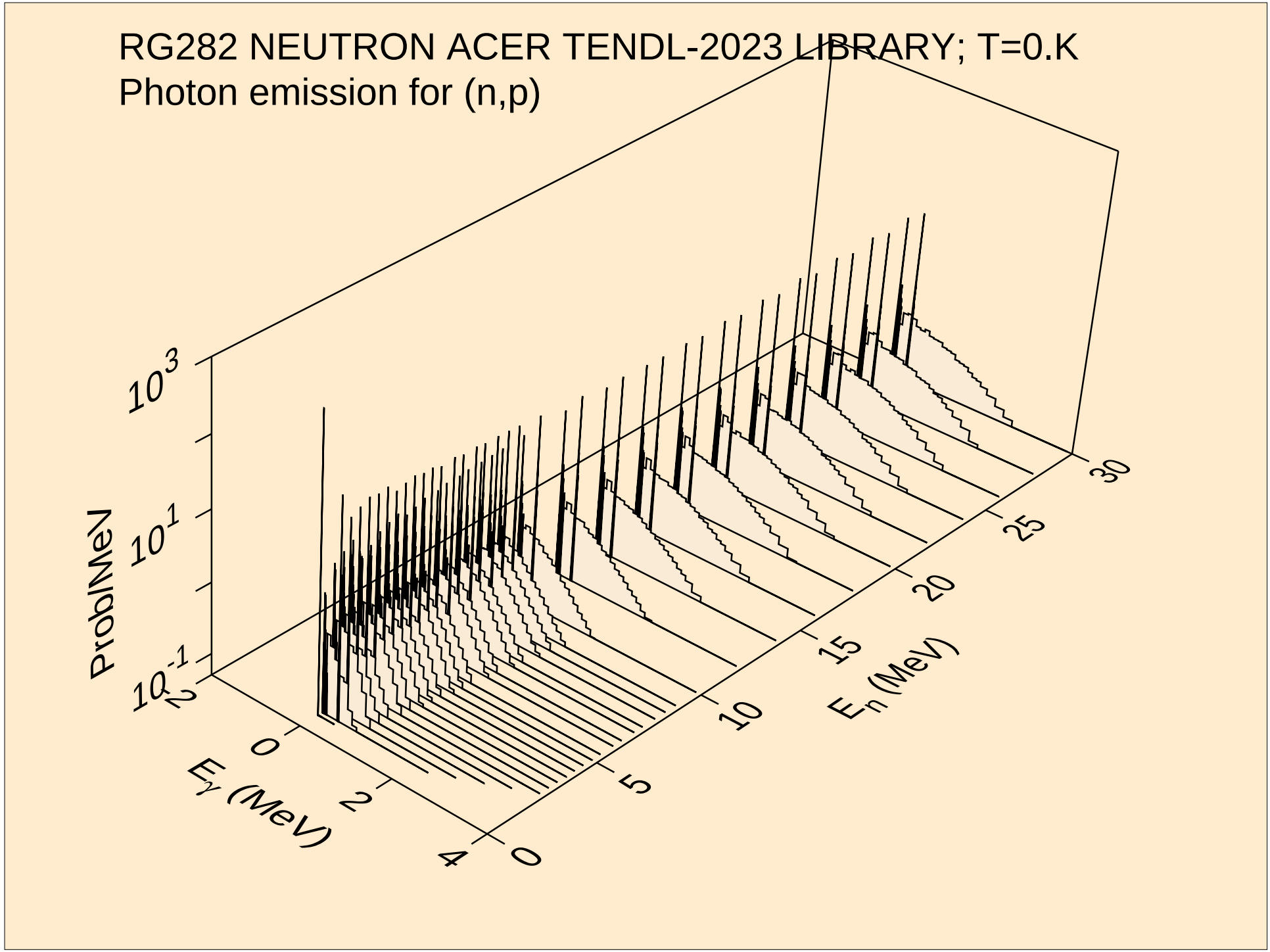

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3np)
Prob/MeV
10^{1}
10^{-1}
-2
0
2
4
E_γ (MeV)
14
16
18
20
22
24
26
28
30
E_n (MeV)

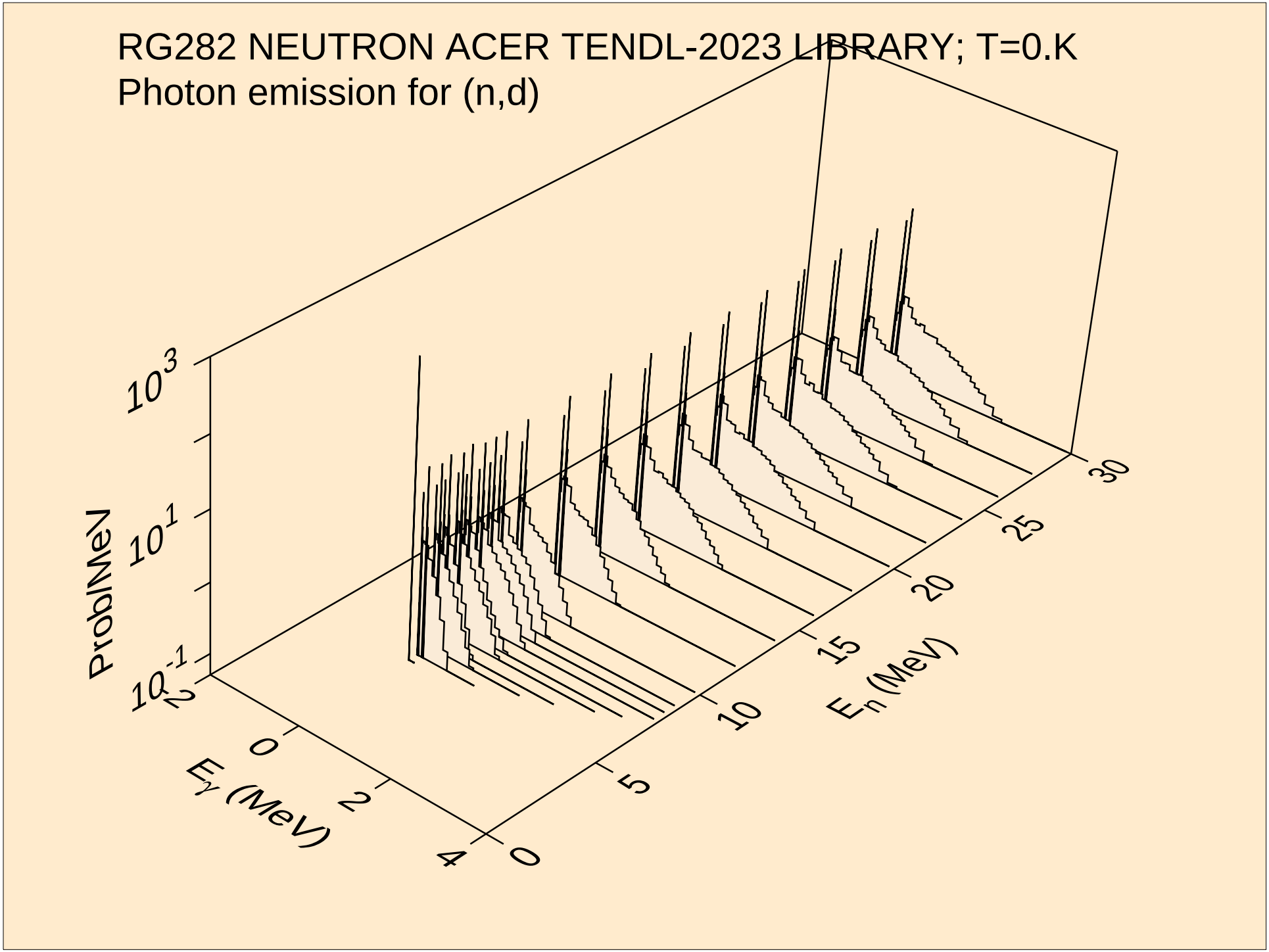

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n2p)
Prob/MeV
10^{0}
10^{-2}
-2
0
2
4
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

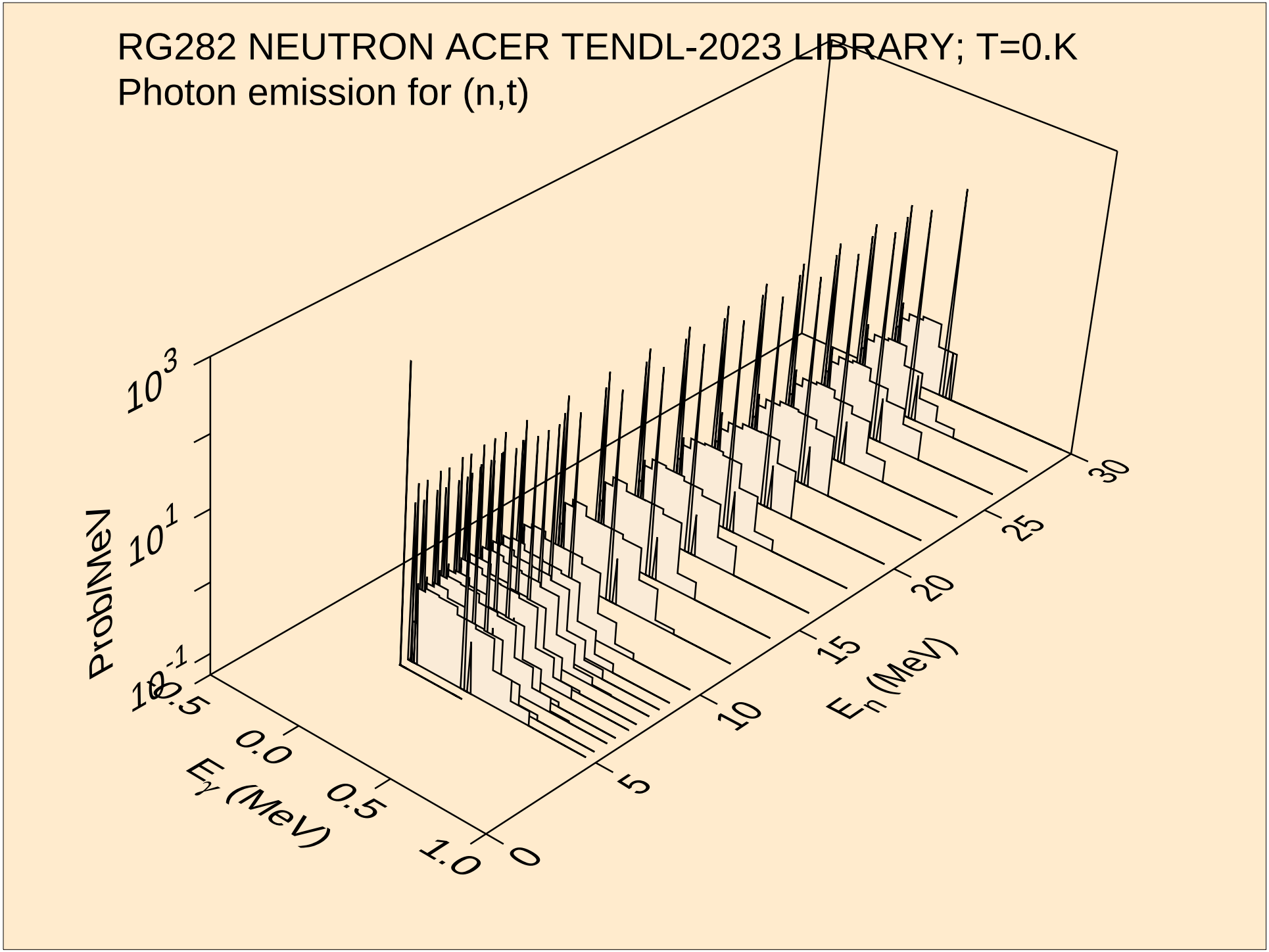

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,npa)
Prob/MeV
10^{0}
10^{-2}
-2
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

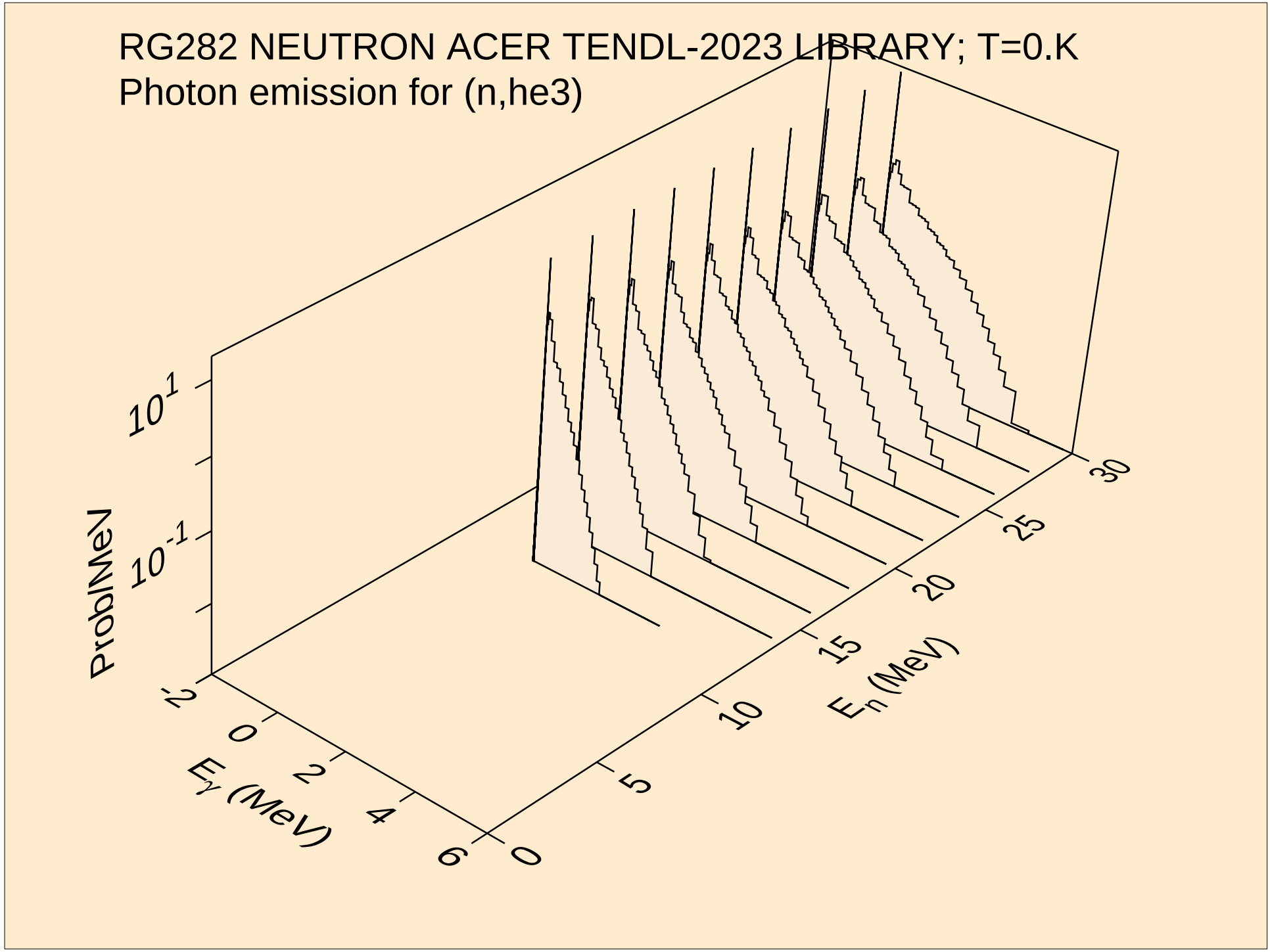

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*c)
Prob/MeV
10^{3}
10^{1}
10^{-1}
E_γ (MeV)
-0.1
0.0
0.1
0.2
E_n (MeV)
0
5
10
15
20
25
30

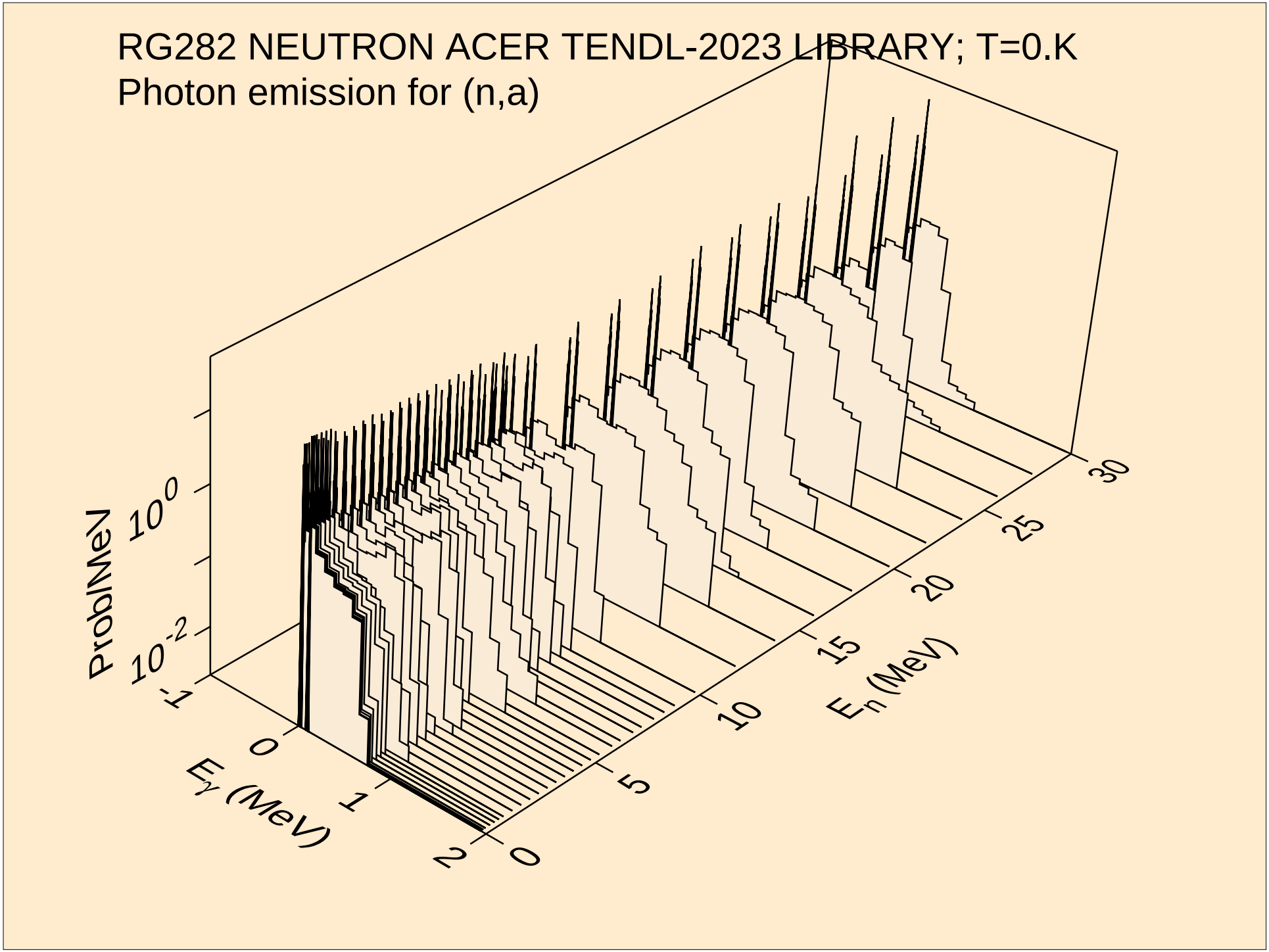

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,gma)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
2
4
6
E_n (MeV)
0
5
10
15
20
25
30

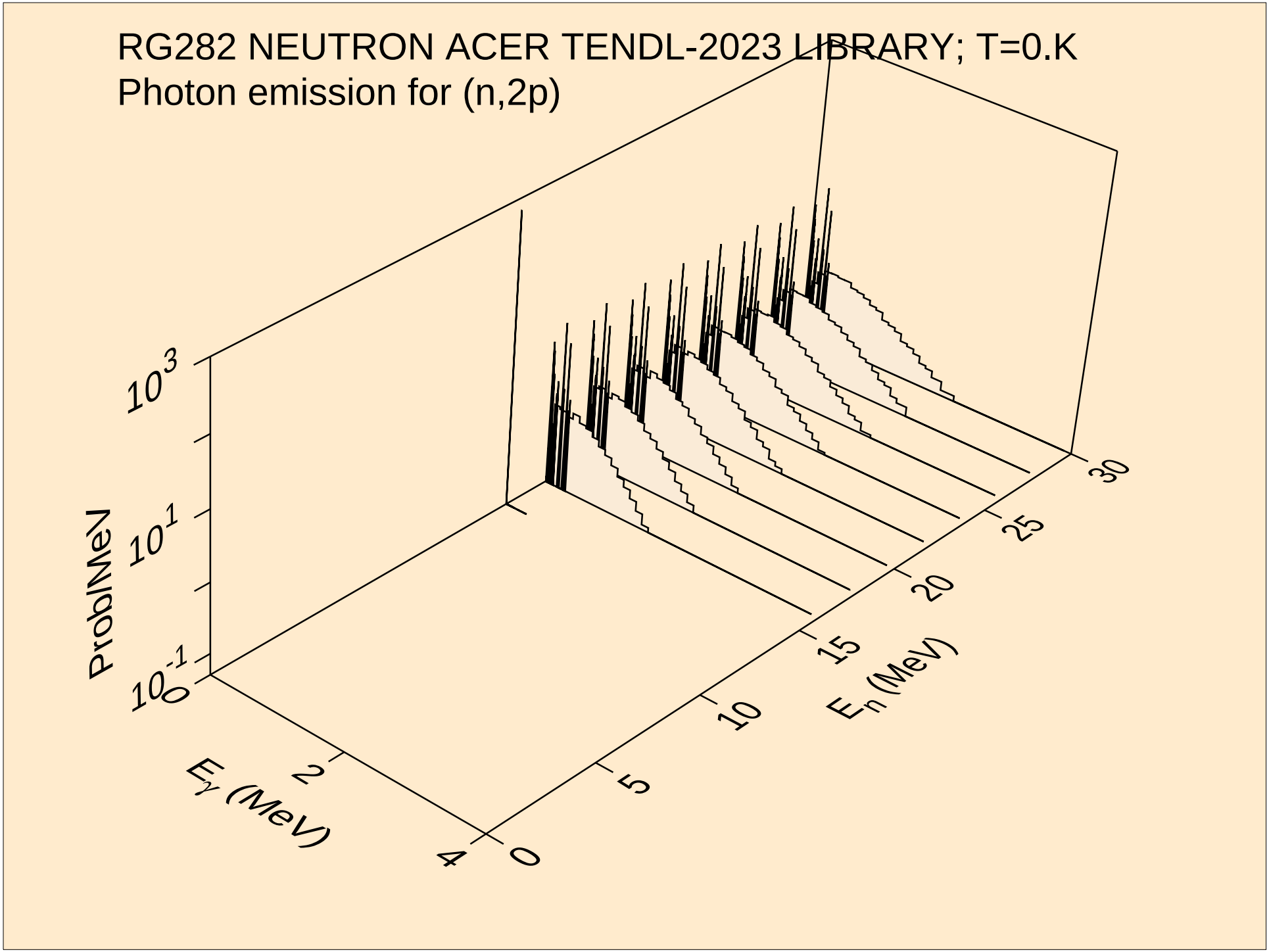

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p)
Prob/MeV
10^{3}
10^{1}
10^{-1}
E_γ (MeV)
0
2
4
E_n (MeV)
0
5
10
15
20
25
30

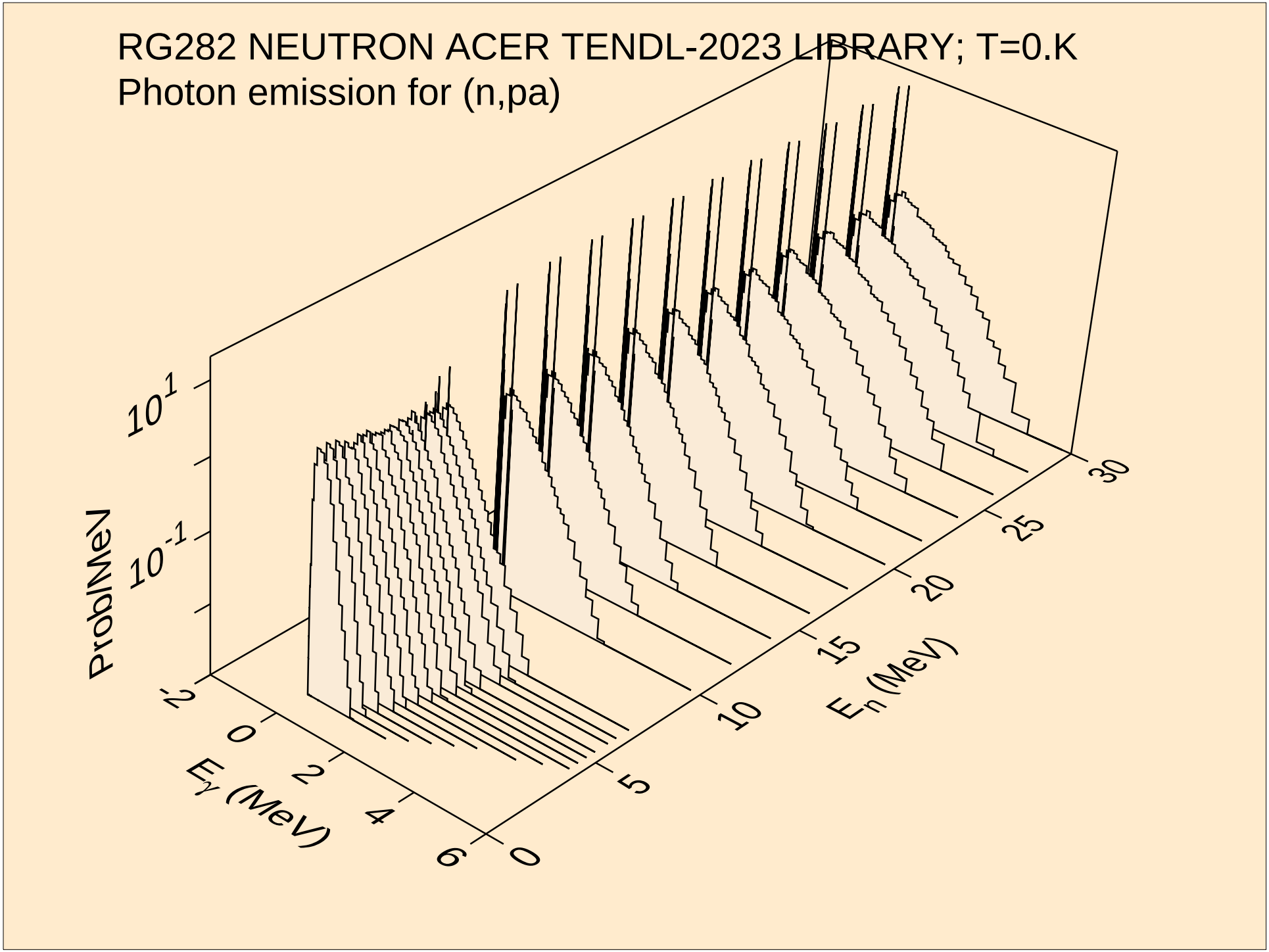

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)
Prob/MeV
10^{3}
10^{1}
10^{-1}
E_γ (MeV)
0
2
4
E_n (MeV)
0
5
10
15
20
25
30

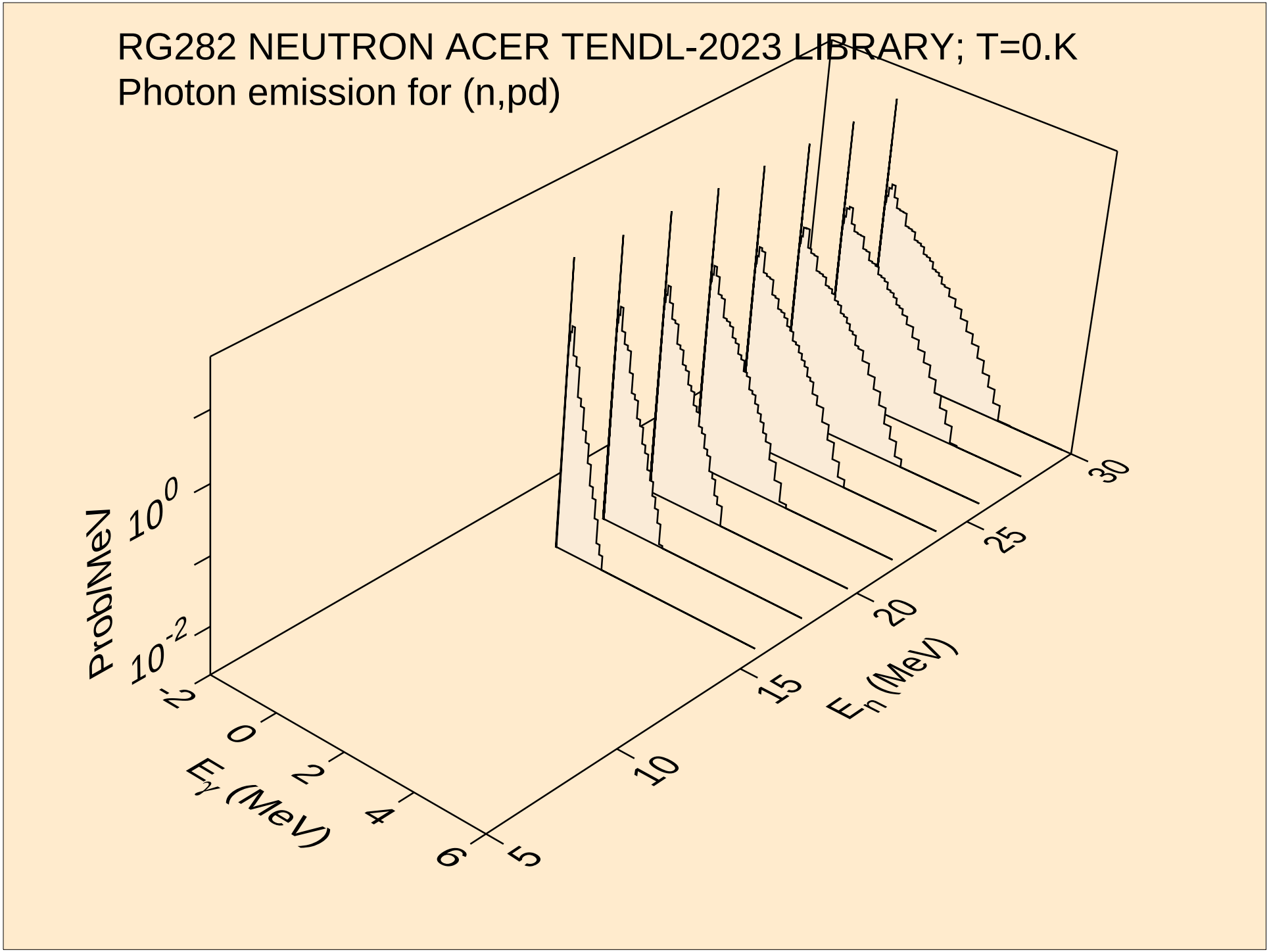

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)
Prob/MeV
10^{3}
10^{1}
10^{-1}
-0.5
0.0
0.5
1.0
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

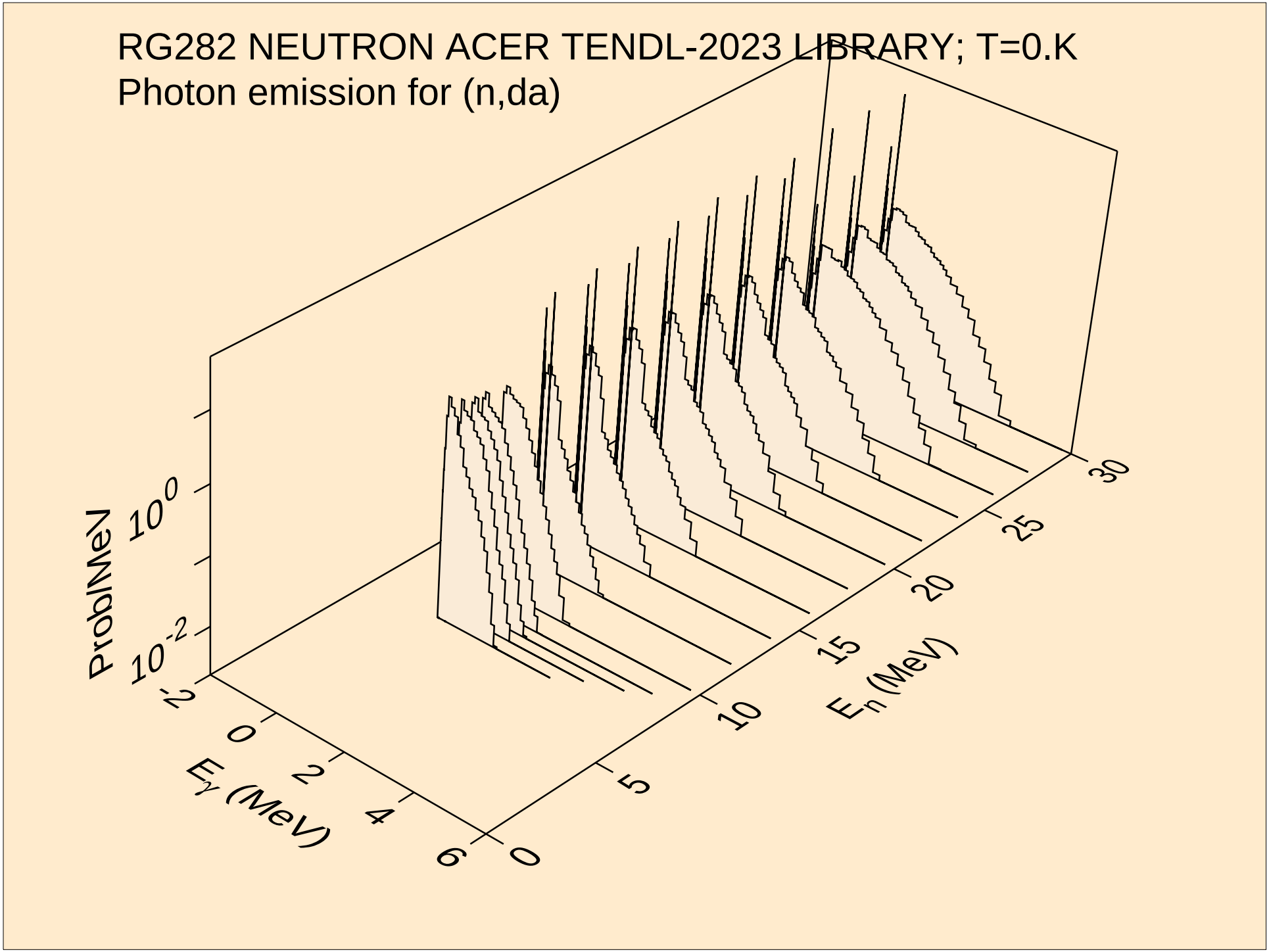

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,he3)
Prob/MeV
10^{1}
10^{-1}
E_γ (MeV)
-2
0
2
4
6
E_n (MeV)
0
5
10
15
20
25
30

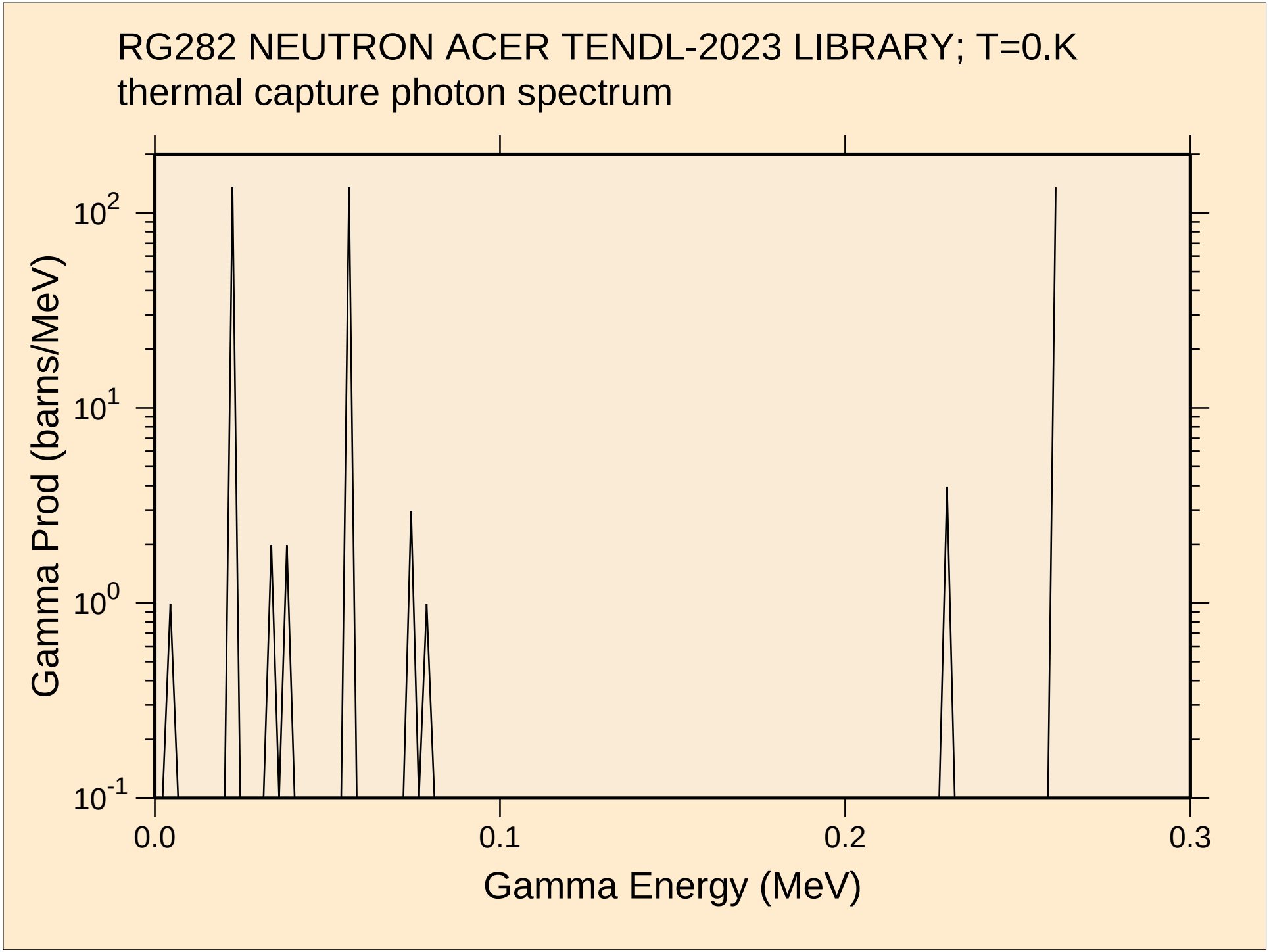

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,a)
Prob/MeV
10^{0}
10^{-2}
-1
0
1
2
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

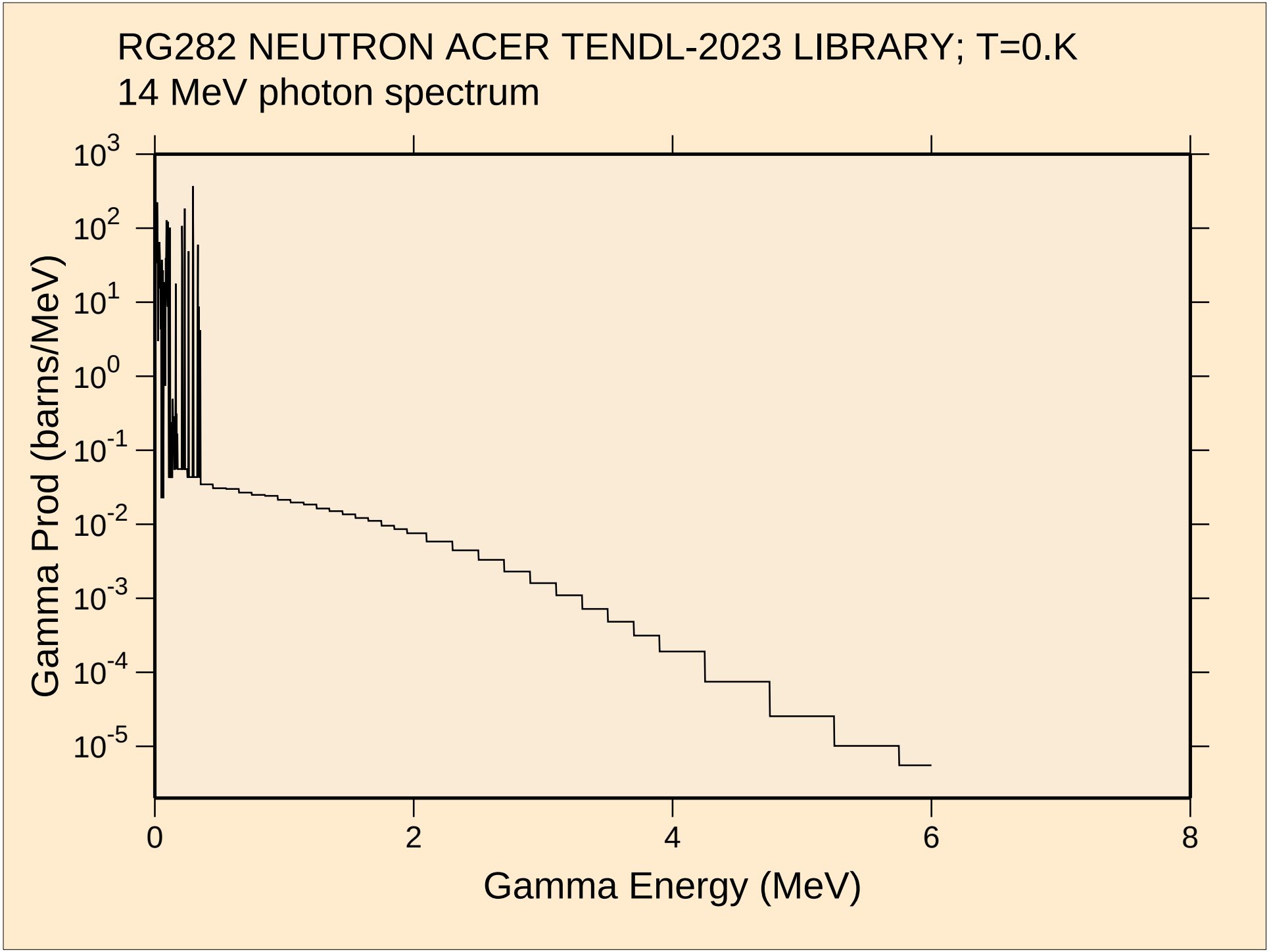

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2p)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

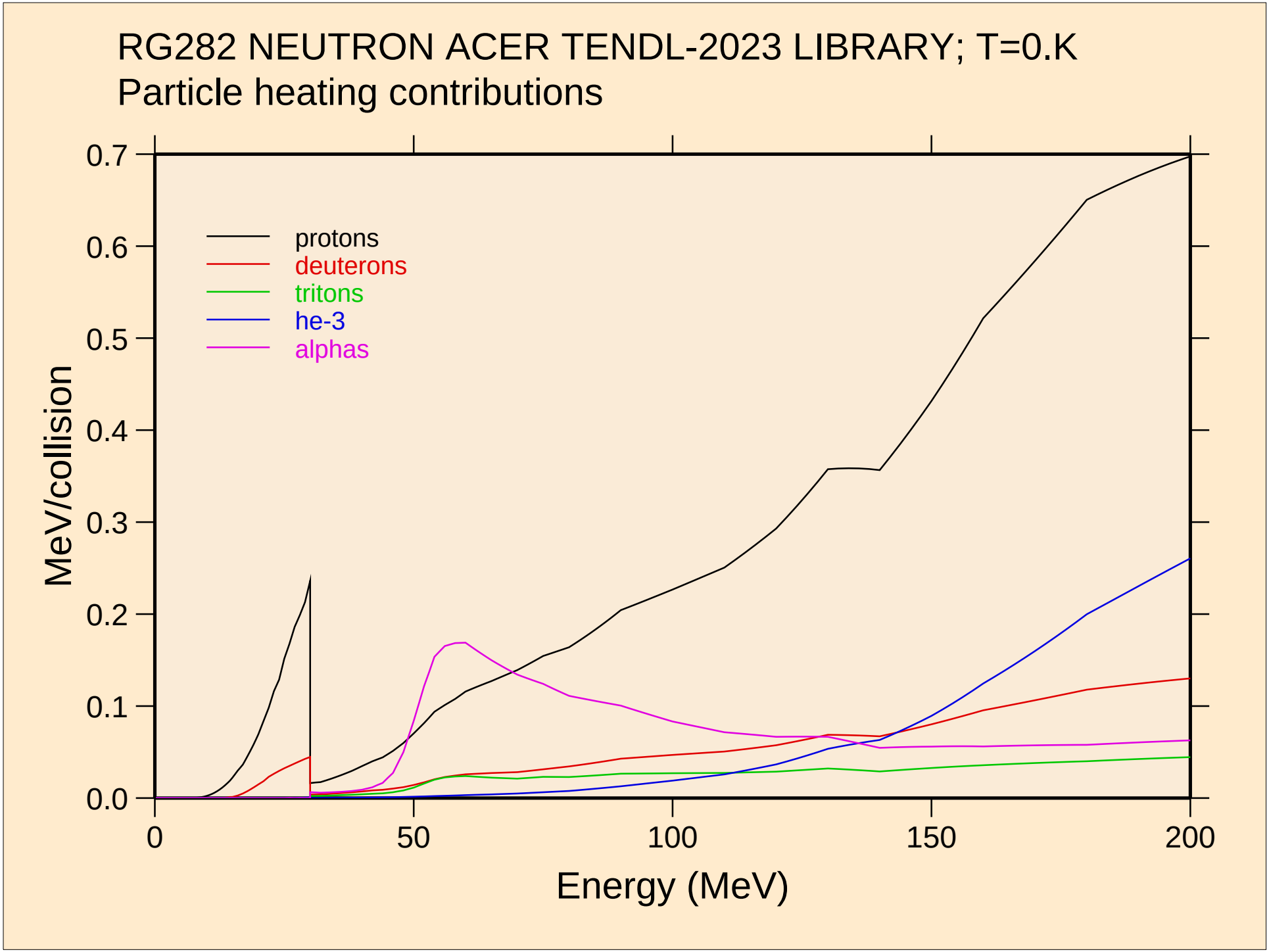

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pa)
Prob/MeV
10^{1}
10^{-1}
E_γ (MeV)
-2
0
2
4
6
E_n (MeV)
0
5
10
15
20
25
30

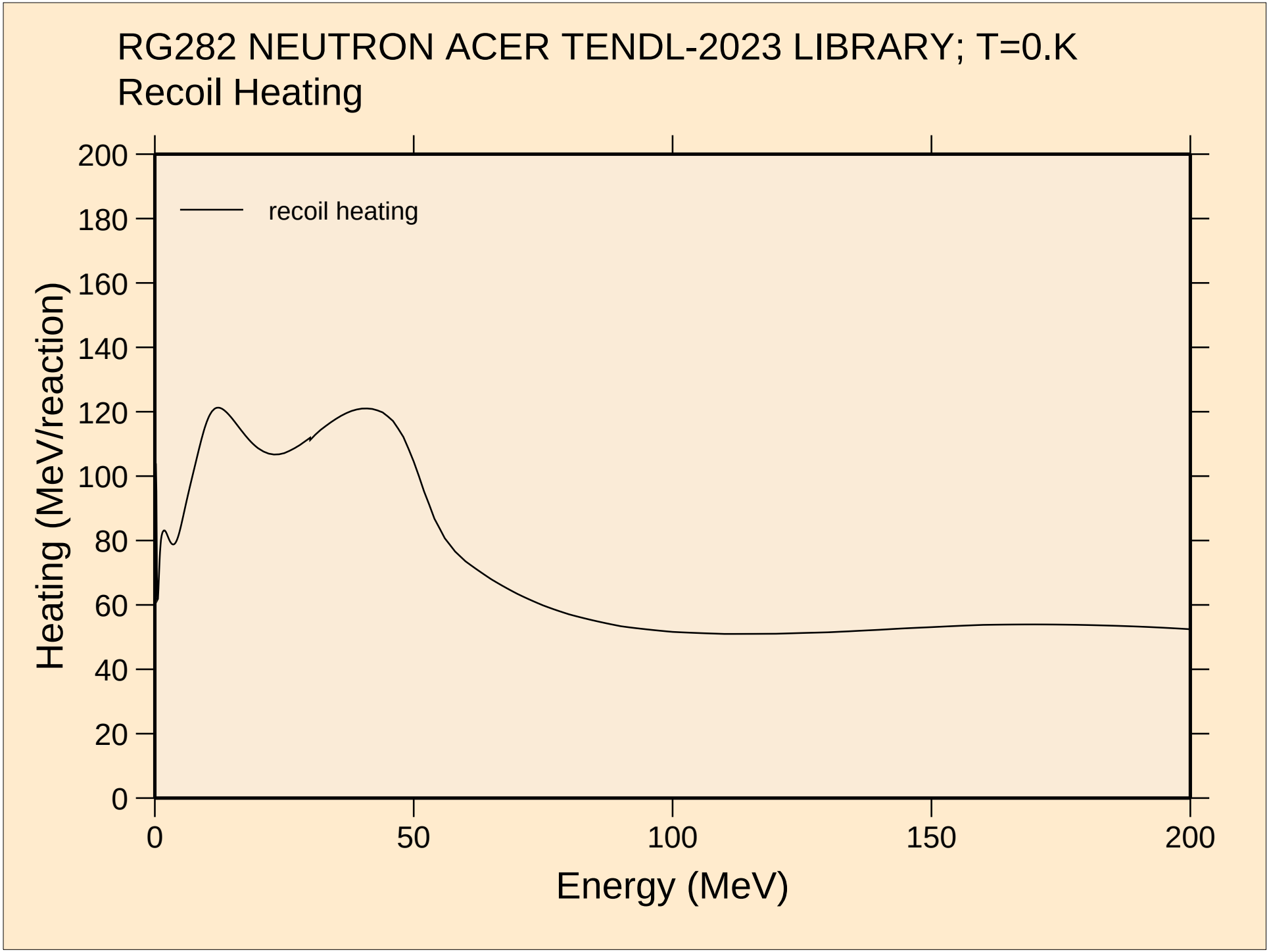

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pd)
Prob/MeV
10^{0}
10^{-2}
-2
0
2
4
6
E_γ (MeV)
5
10
15
20
25
30
E_n (MeV)

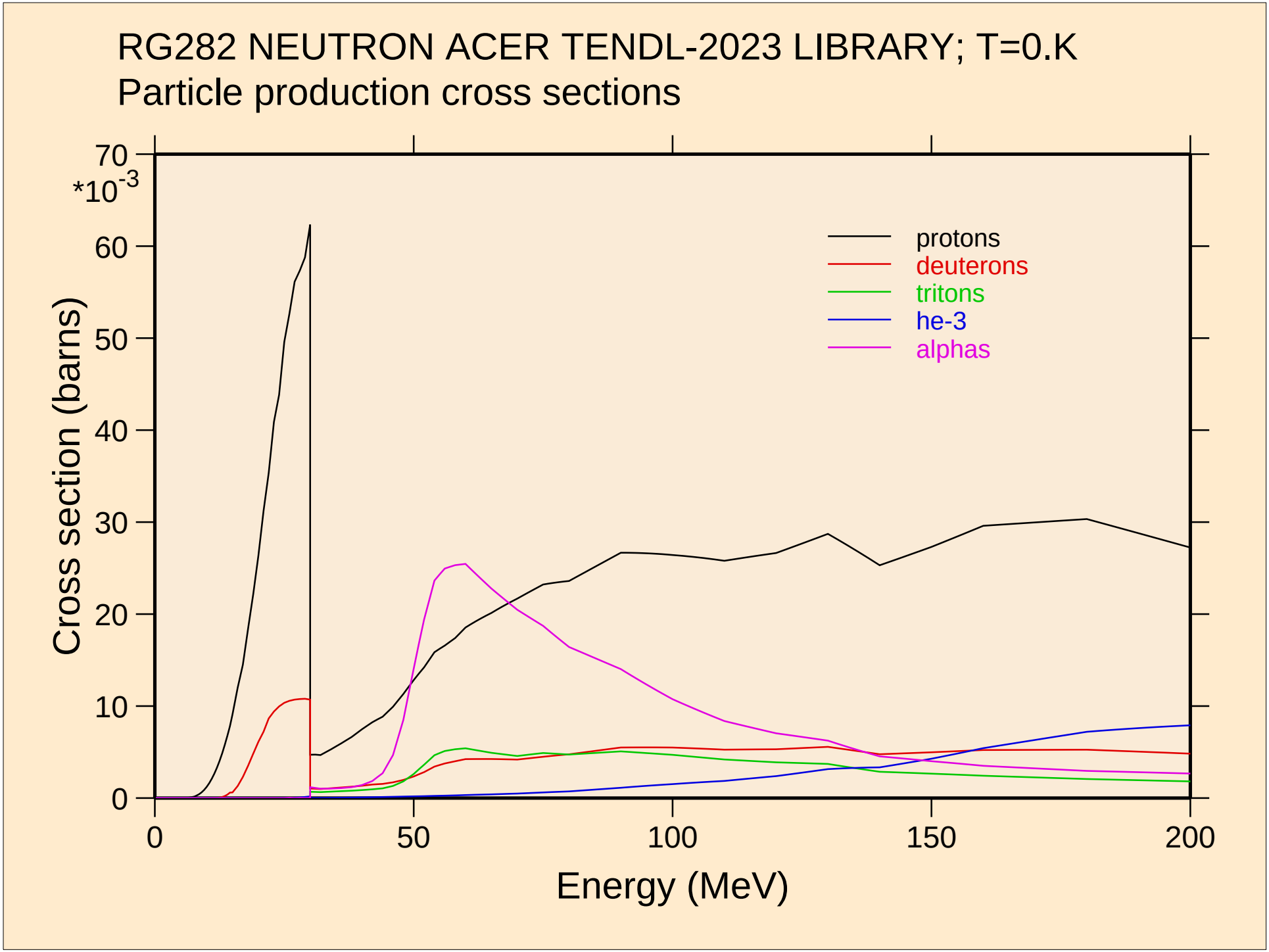

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,da)
Prob/MeV
10^{0}
10^{-2}
-2
0
2
4
6
E_γ (MeV)
0
5
10
15
20
25
30
E_n (MeV)

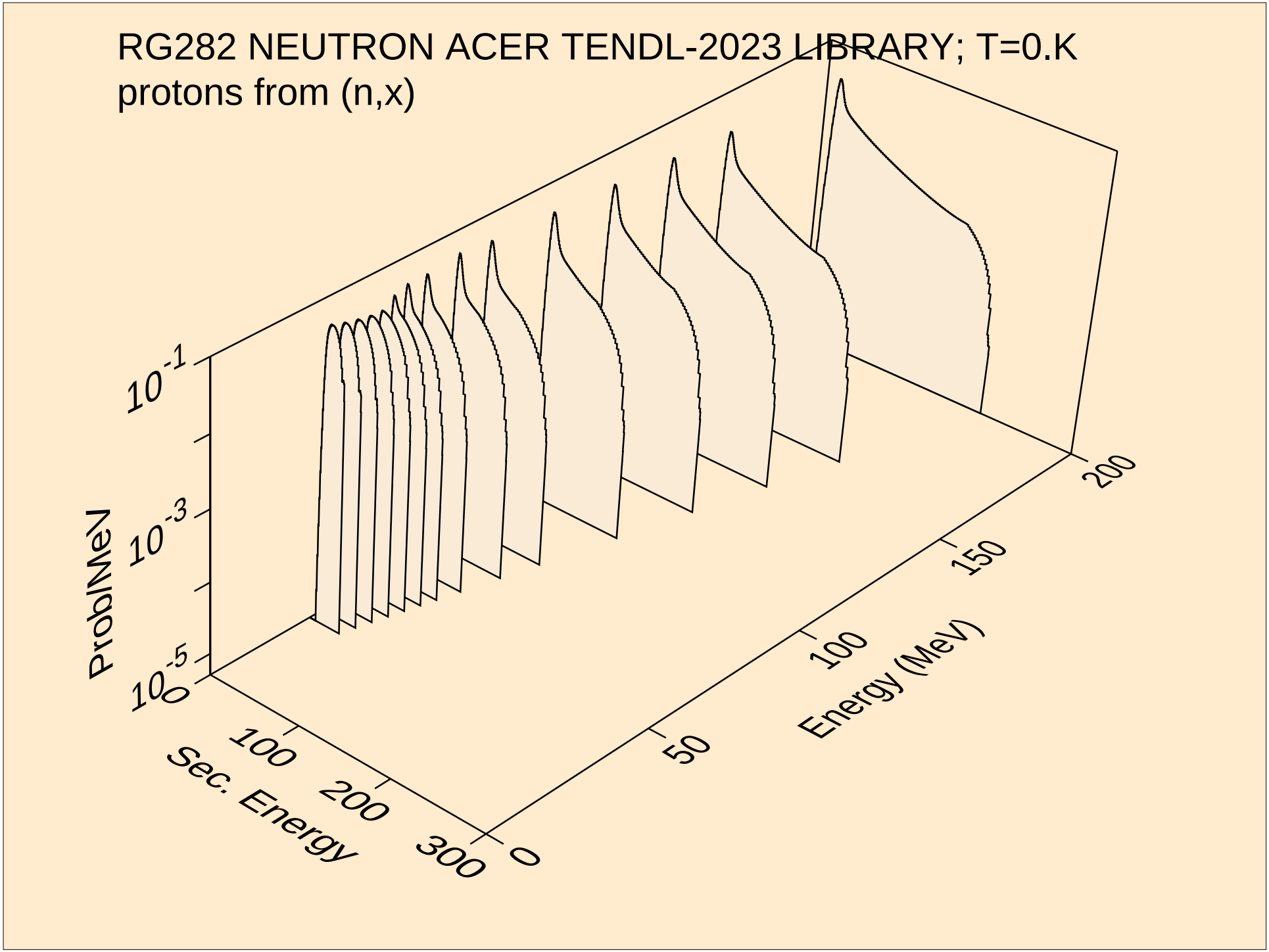

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10^2
10^1
10^0
10^-1
0.0
0.1
0.2
0.3
Gamma Energy (MeV)

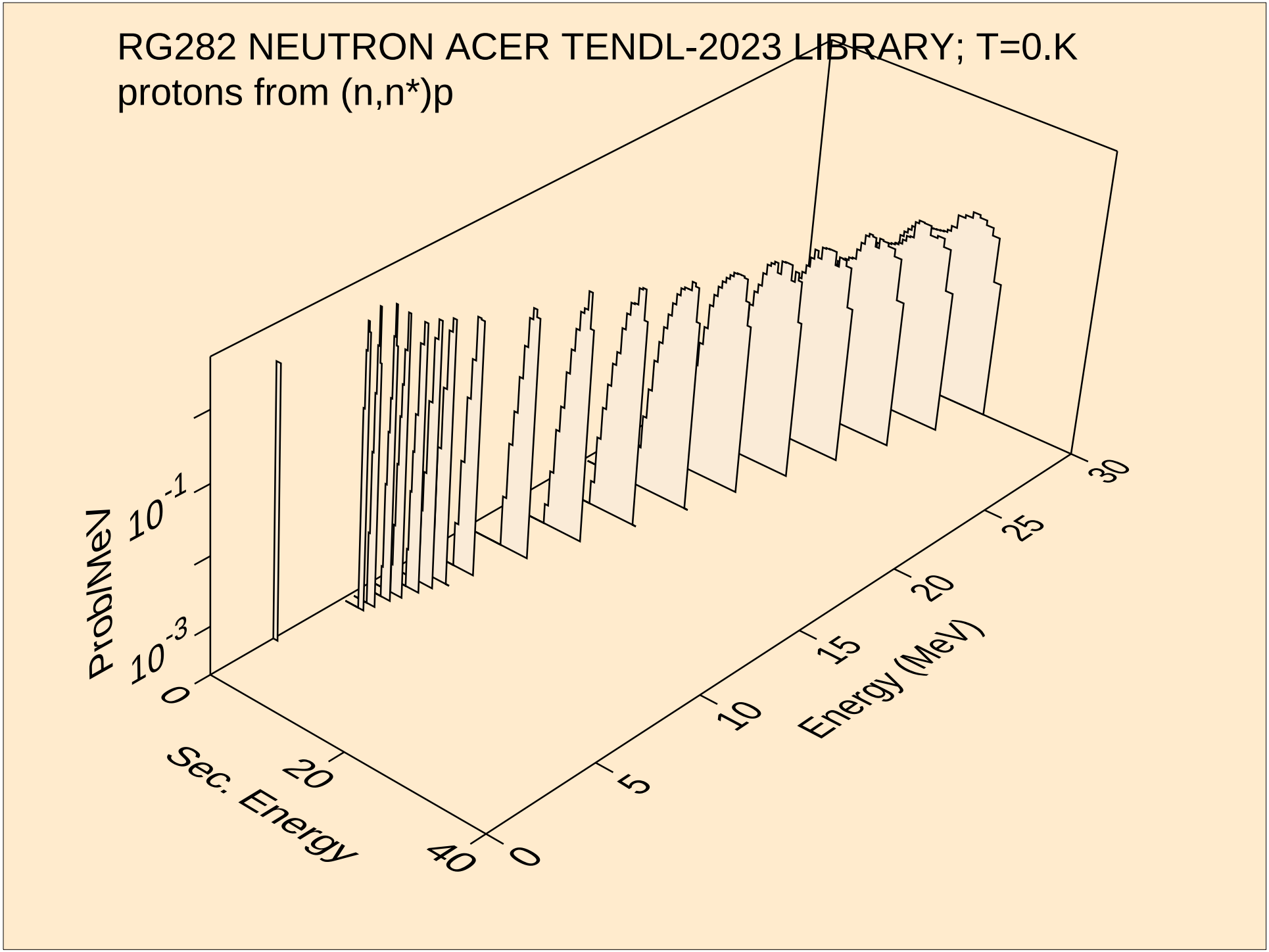

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
0
2
4
6
8
Gamma Energy (MeV)

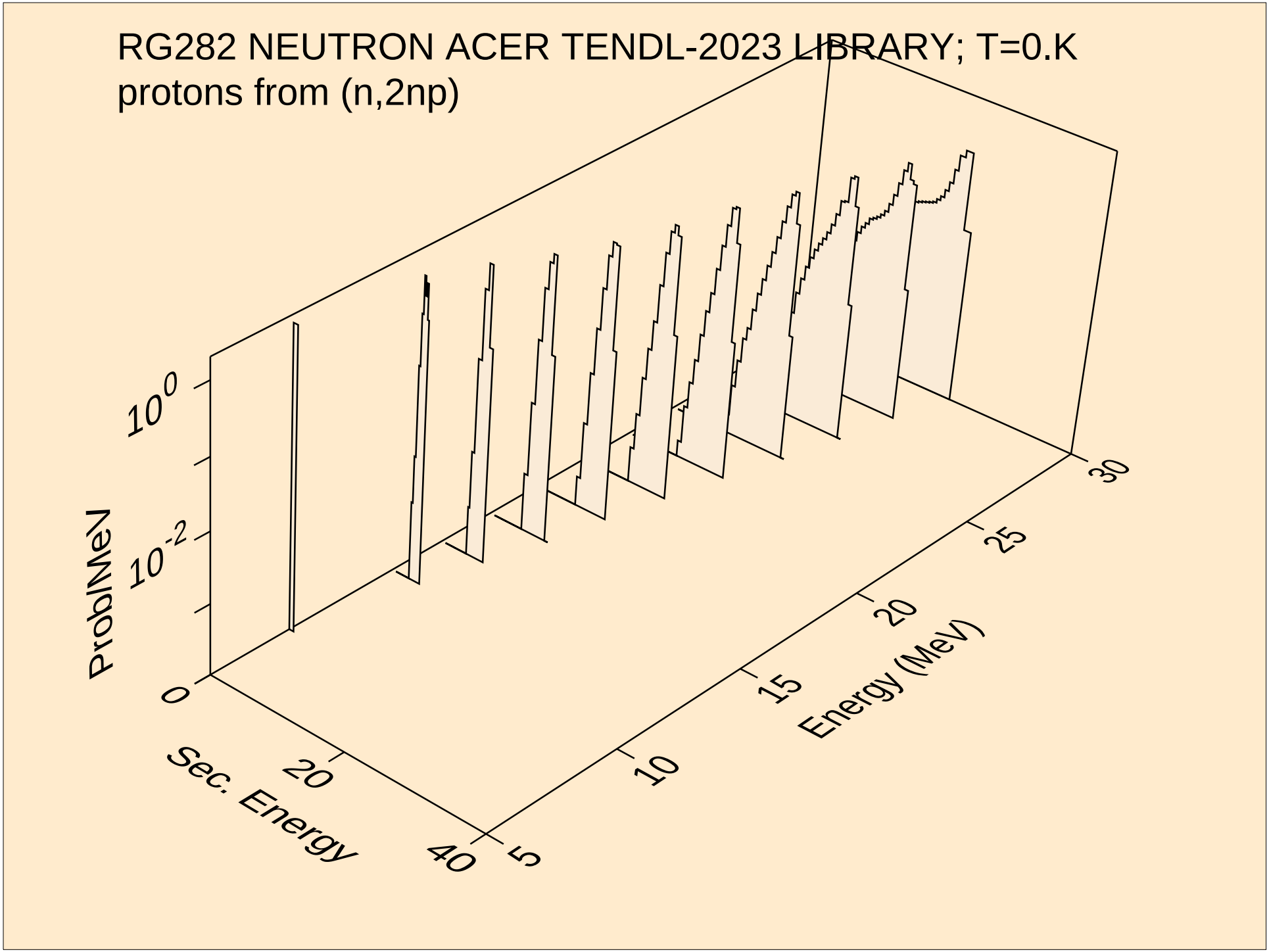

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Particle heating contributions
protons
deuterons
tritons
he-3
alphas
MeV/collision
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
50
100
150
200
Energy (MeV)

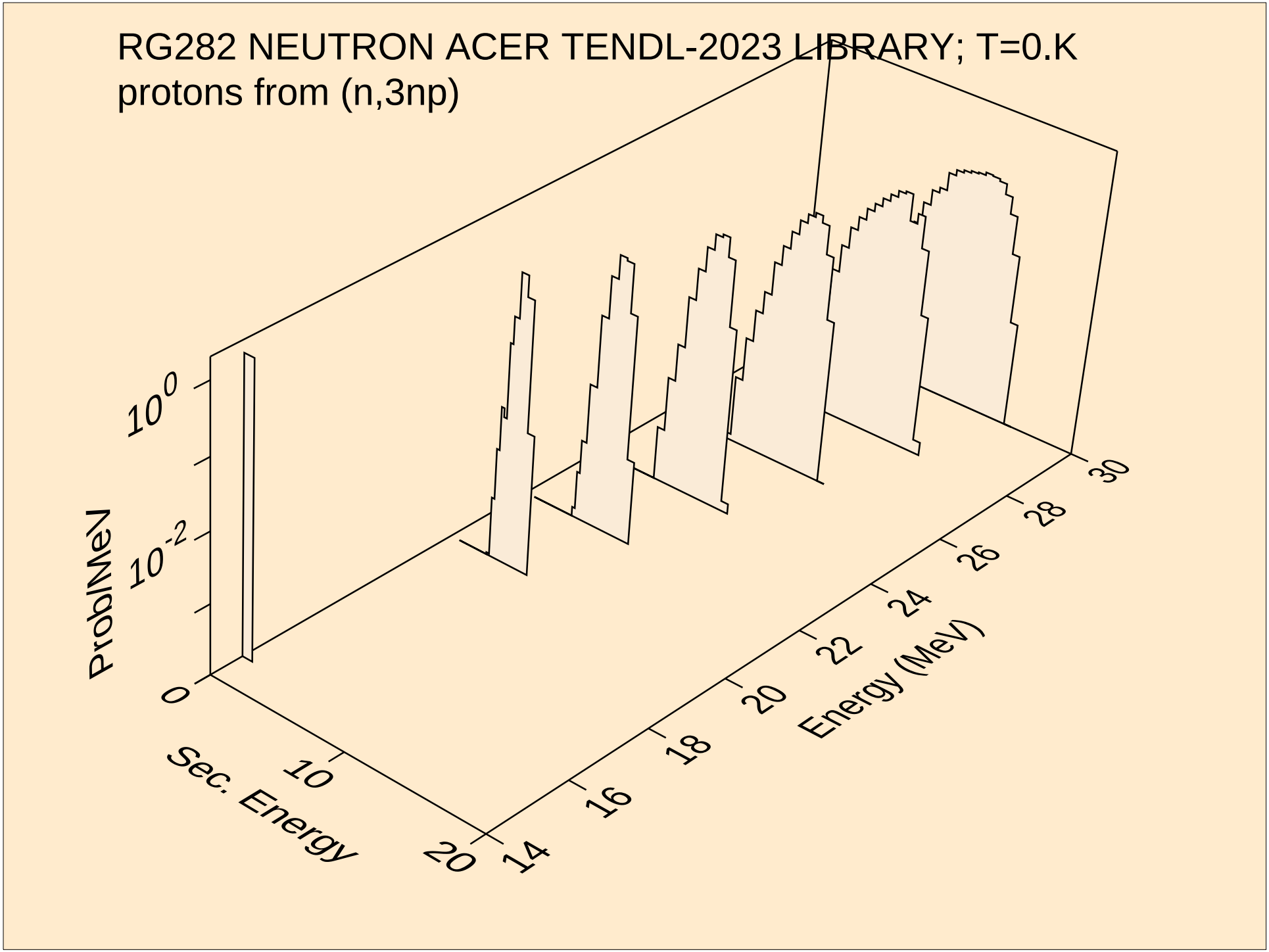

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0
20
40
60
80
100
120
140
160
180
200
0
50
100
150
200

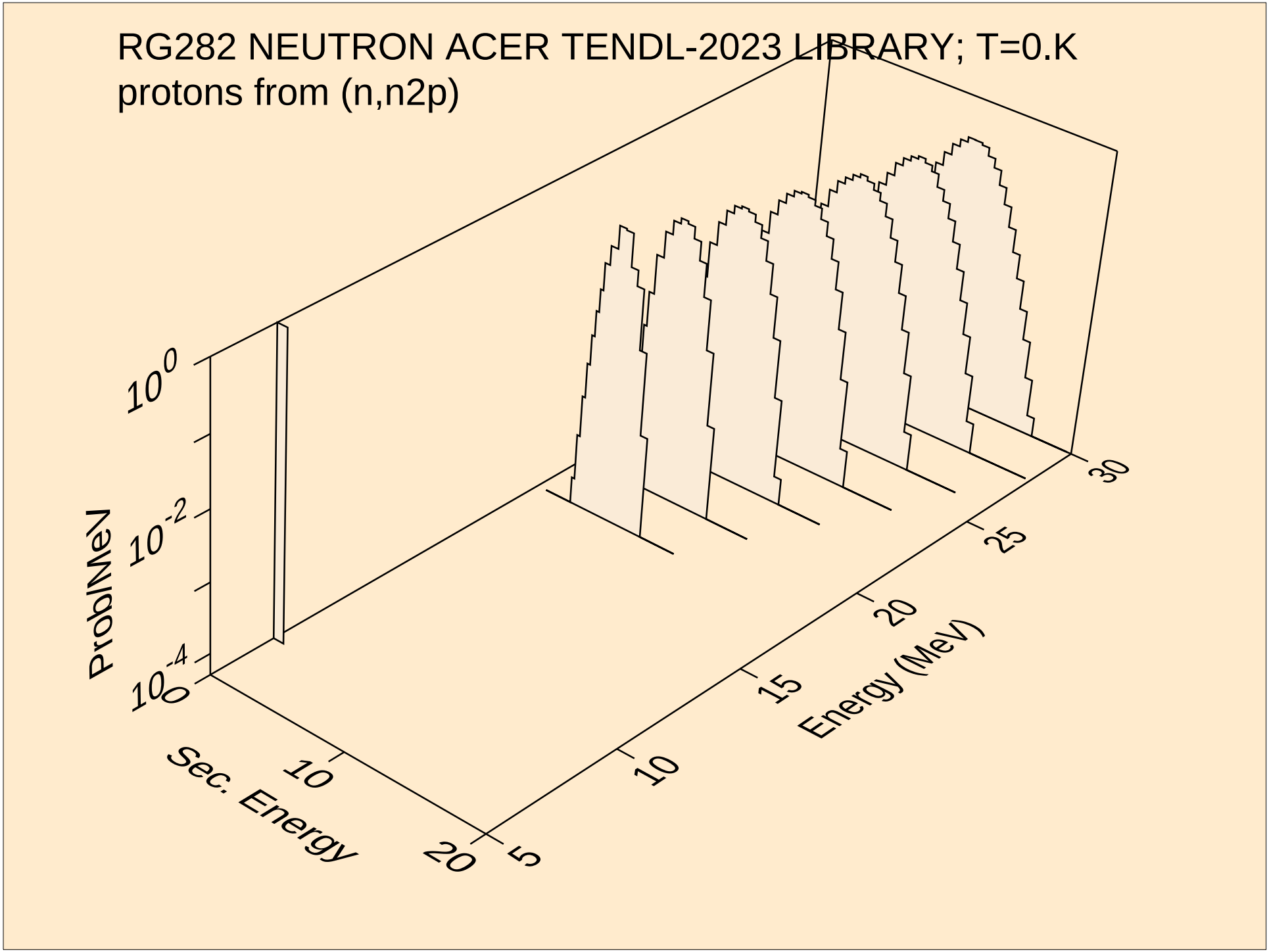

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Particle production cross sections
Cross section (barns)
*10-3
70
60
50
40
30
20
10
0
0
50
100
150
200
Energy (MeV)
protons
deuterons
tritons
he-3
alphas

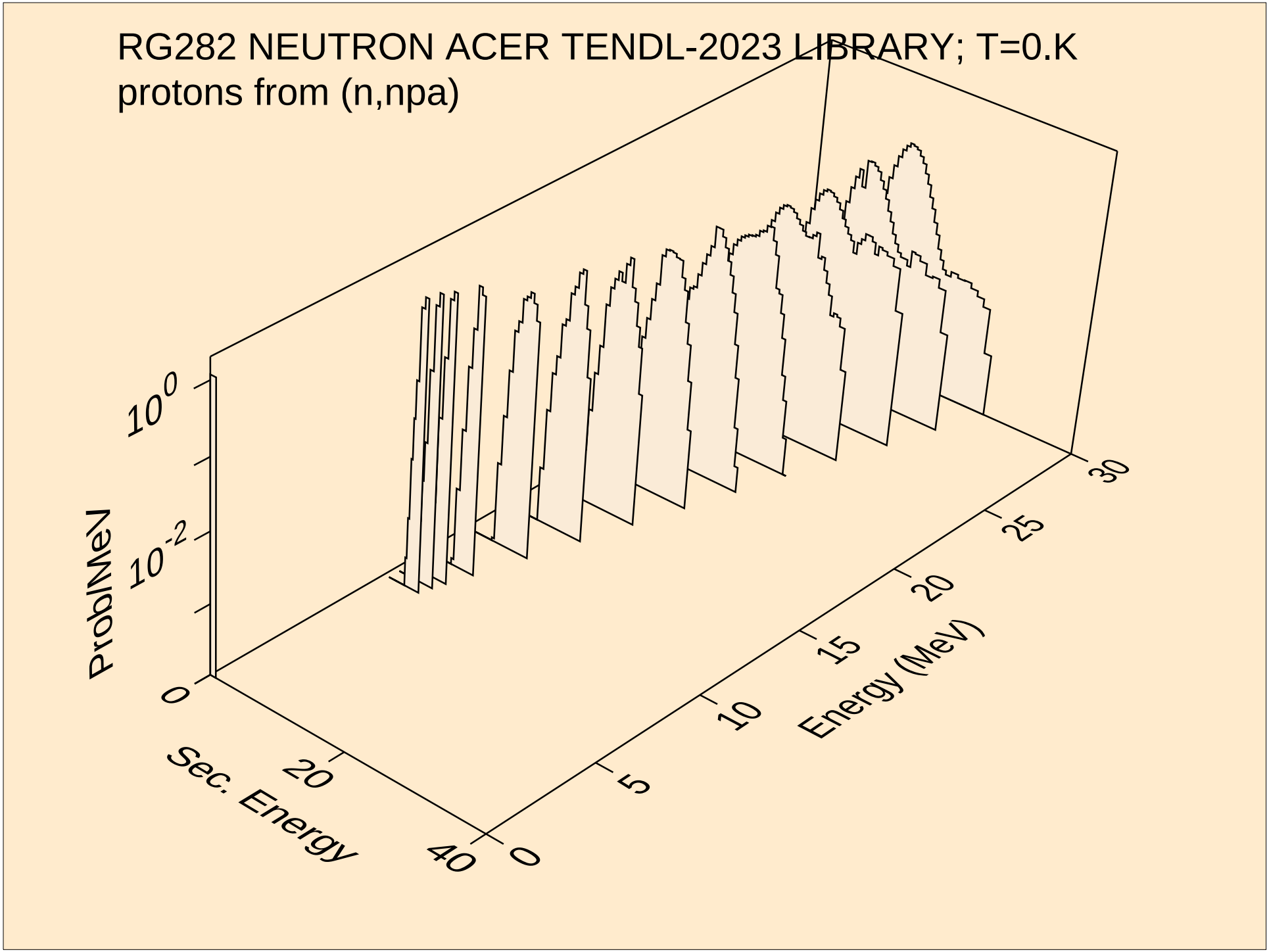

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,x)
Prob/MeV
10-1
10-3
10-5
0
100
200
300
Sec. Energy
0
50
100
150
200
Energy (MeV)

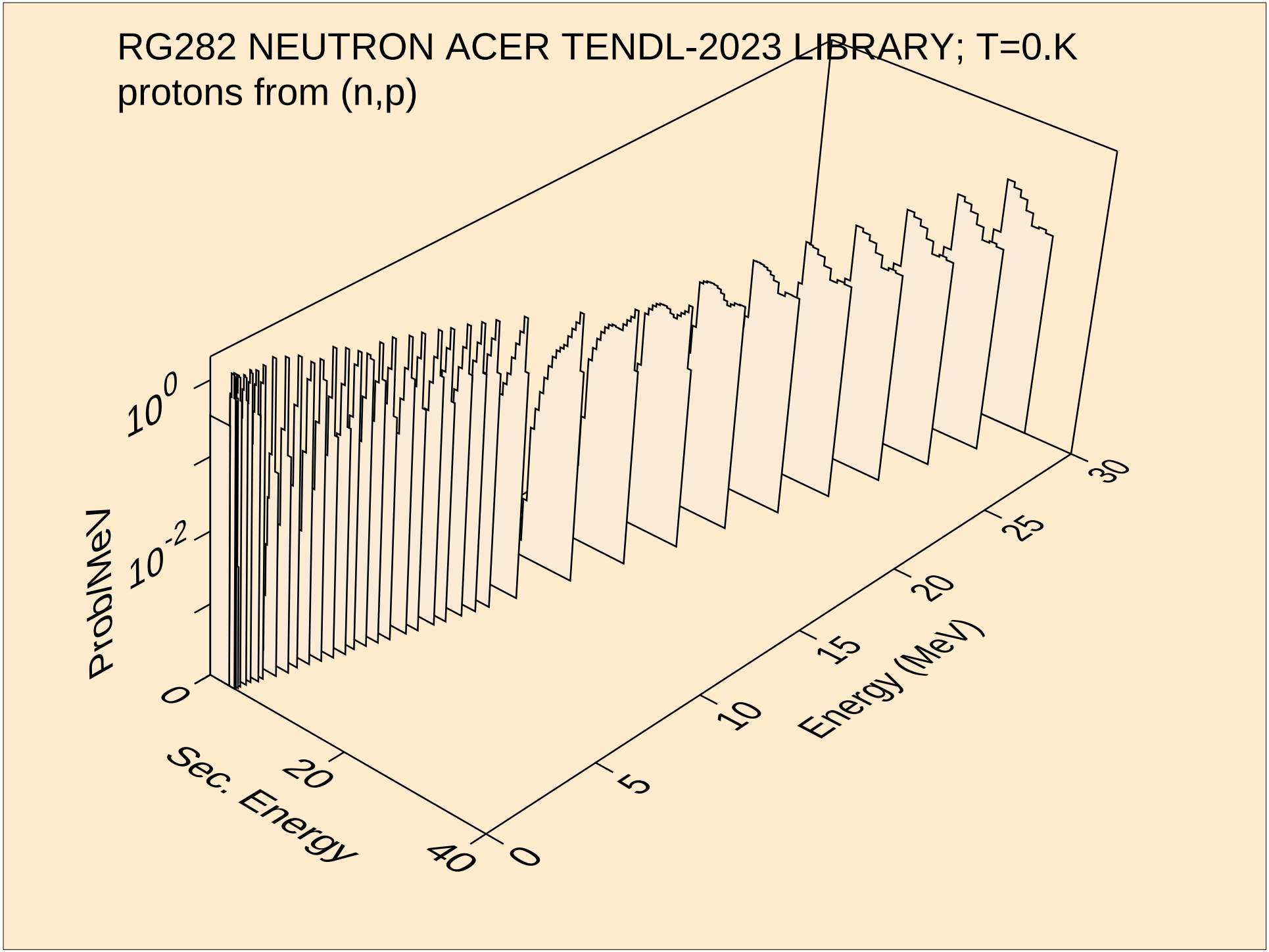

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,n*)p
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

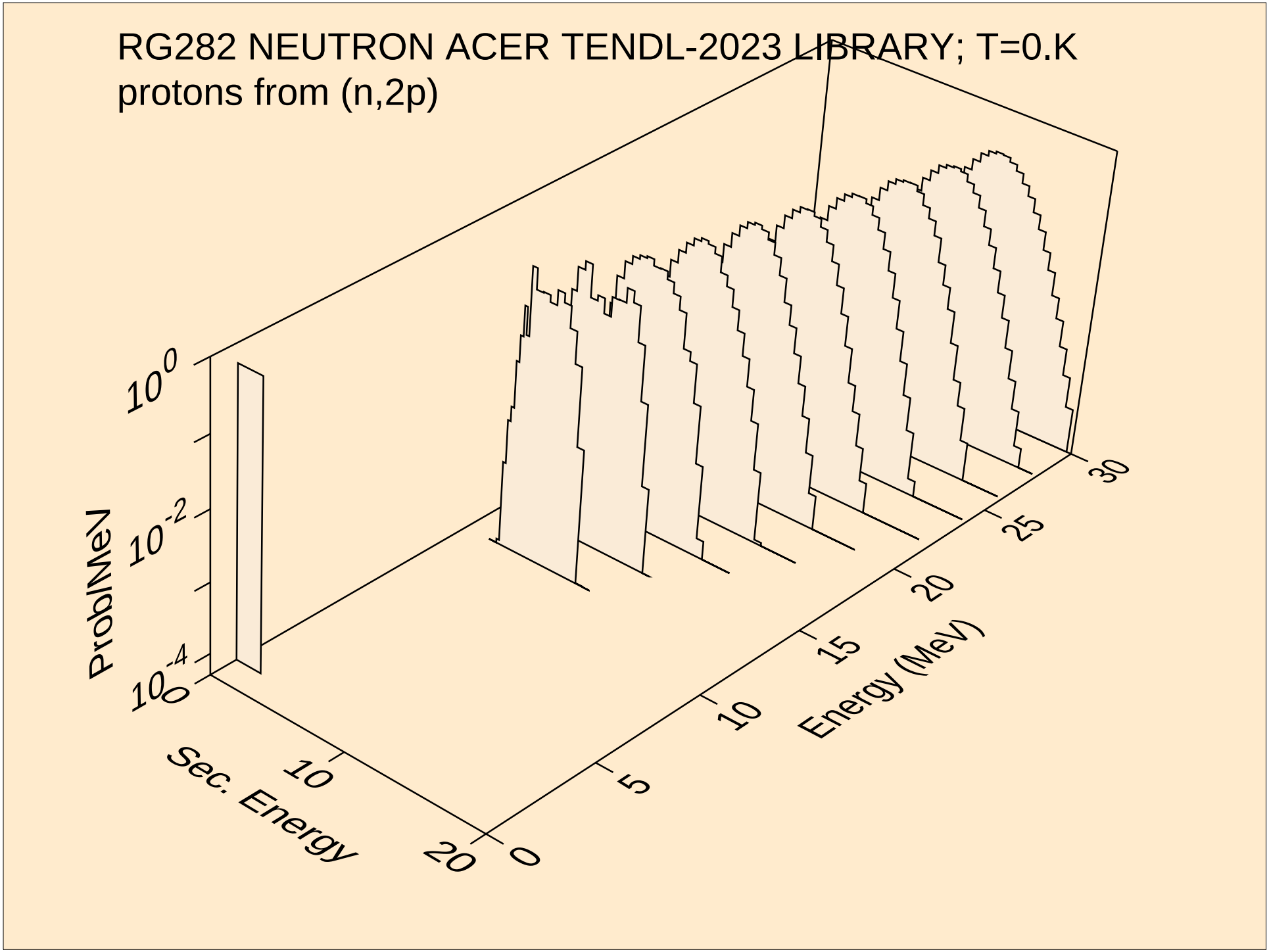

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,2np)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
5
10
15
20
25
30
Energy (MeV)

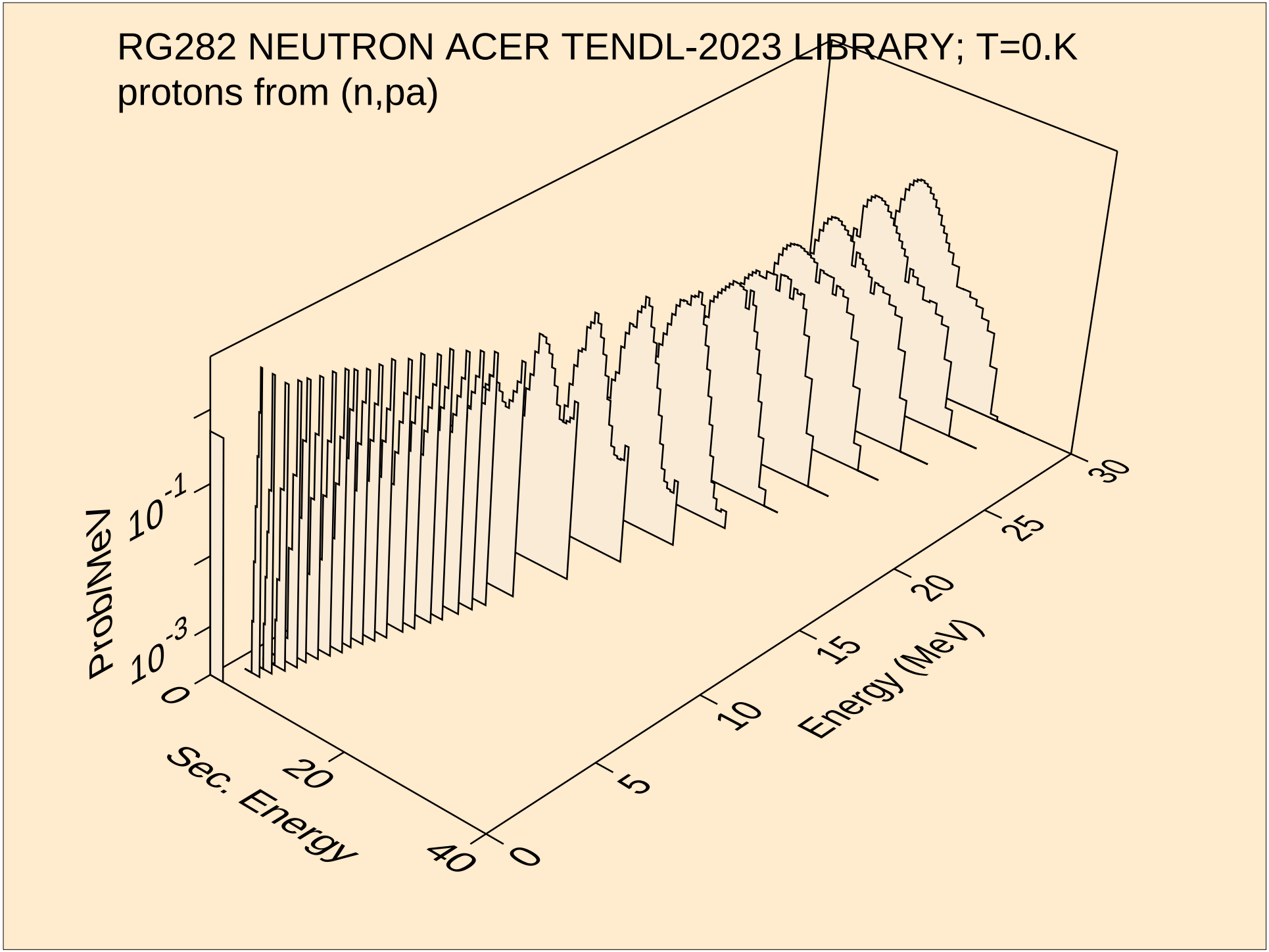

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,3np)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
14
16
18
20
22
24
26
28
30
Energy (MeV)

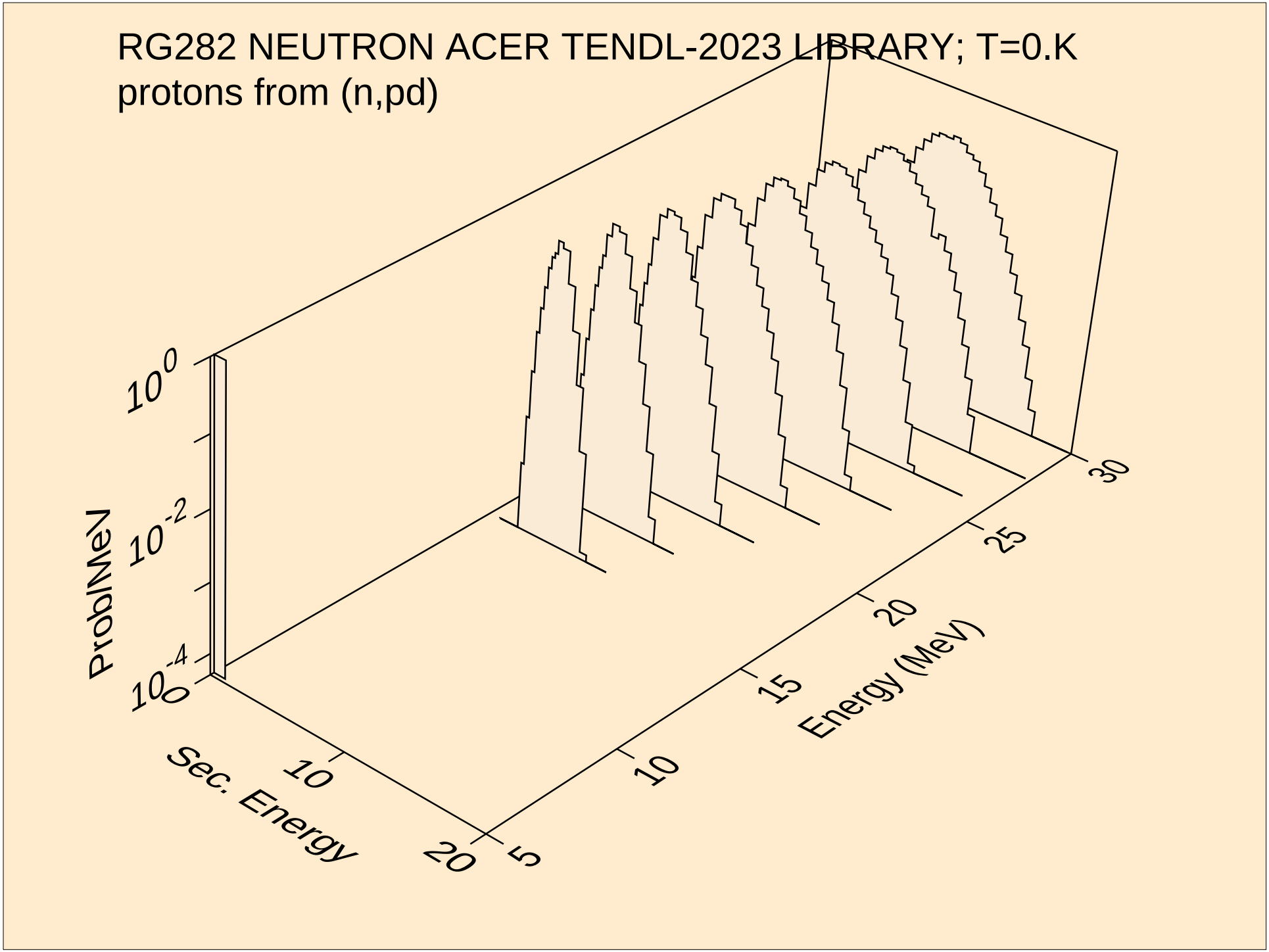

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,n2p)
Prob/MeV
10^0
10^-2
10^-4
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

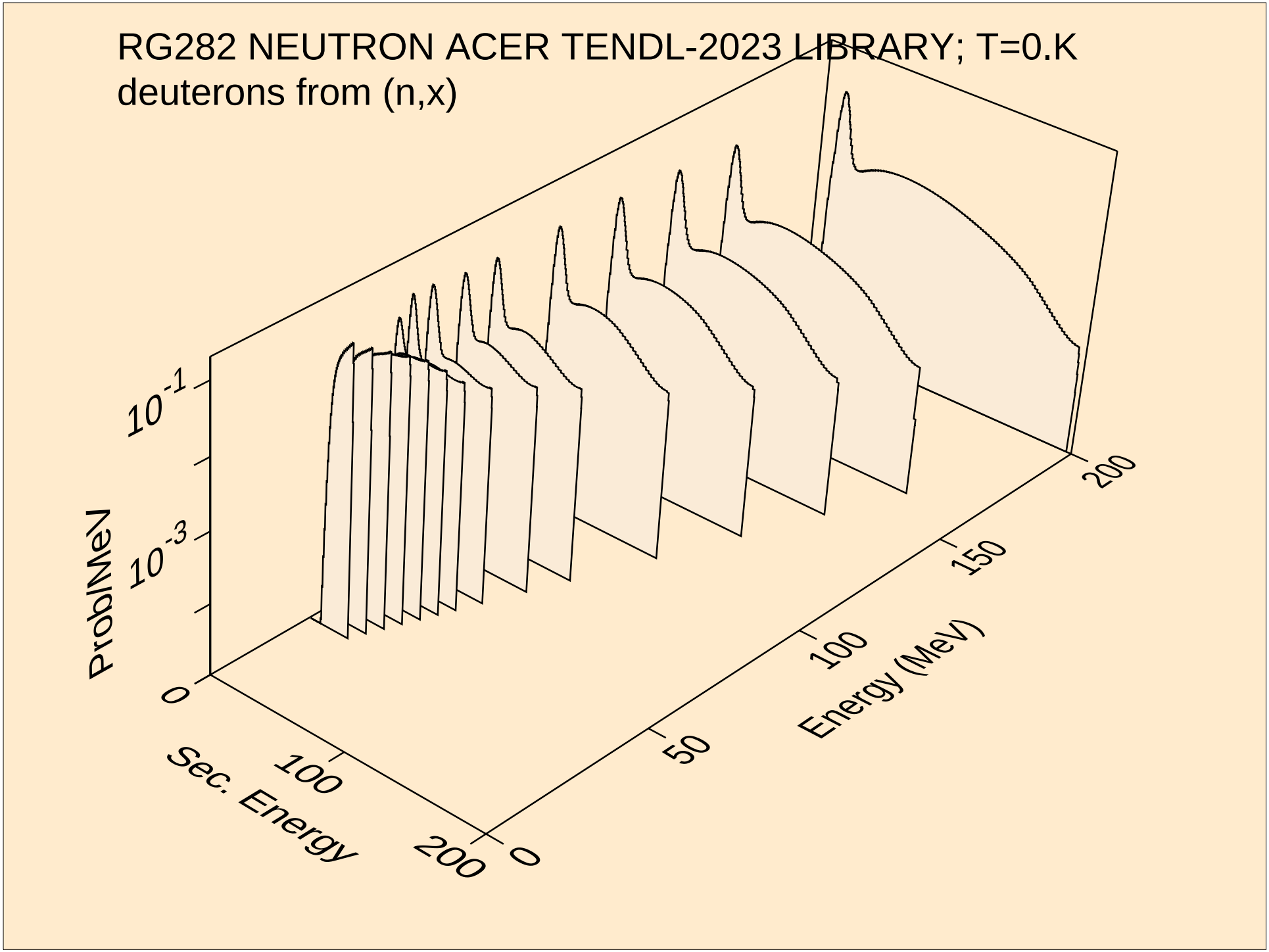

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,npa)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

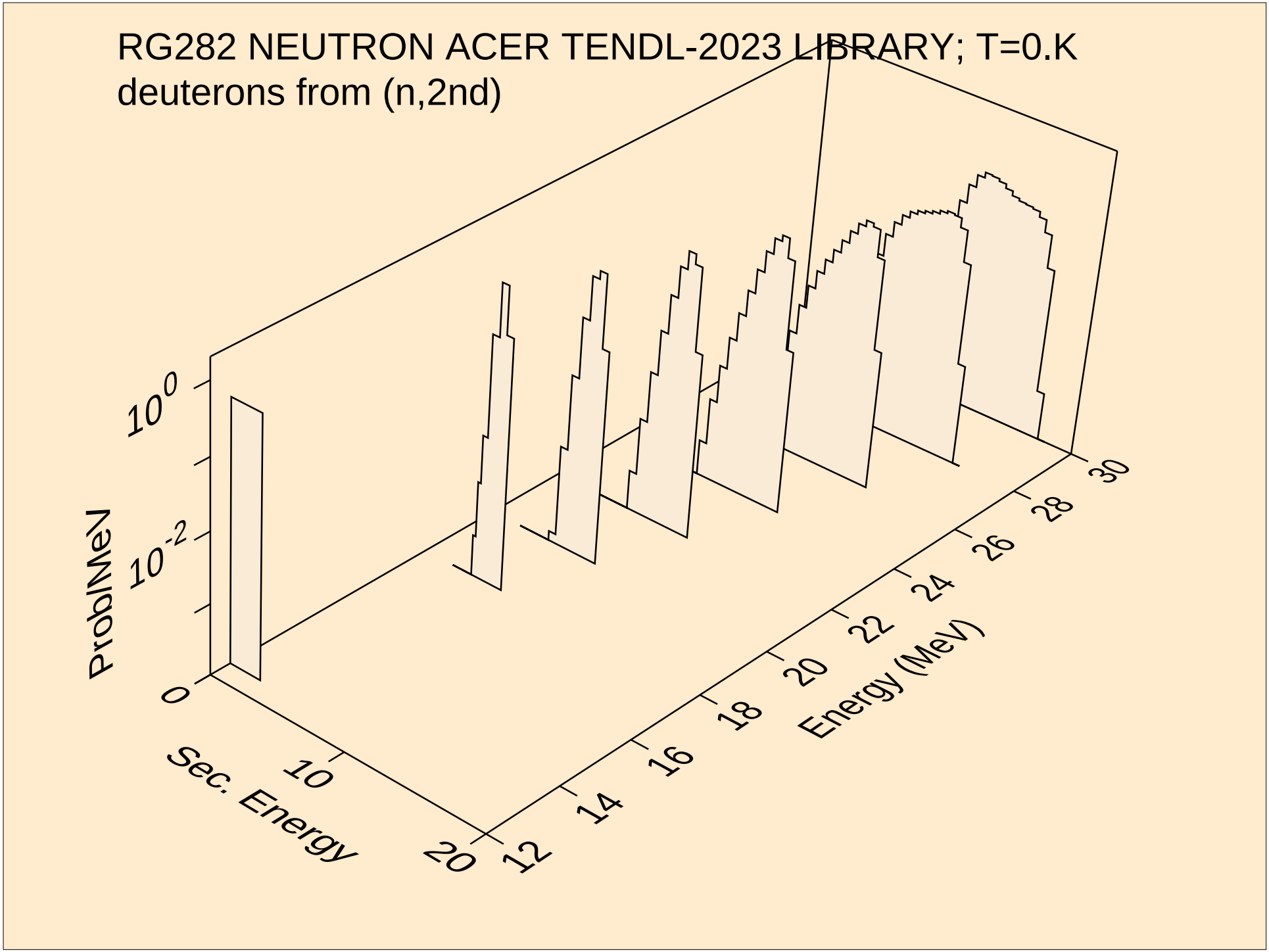

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,p)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

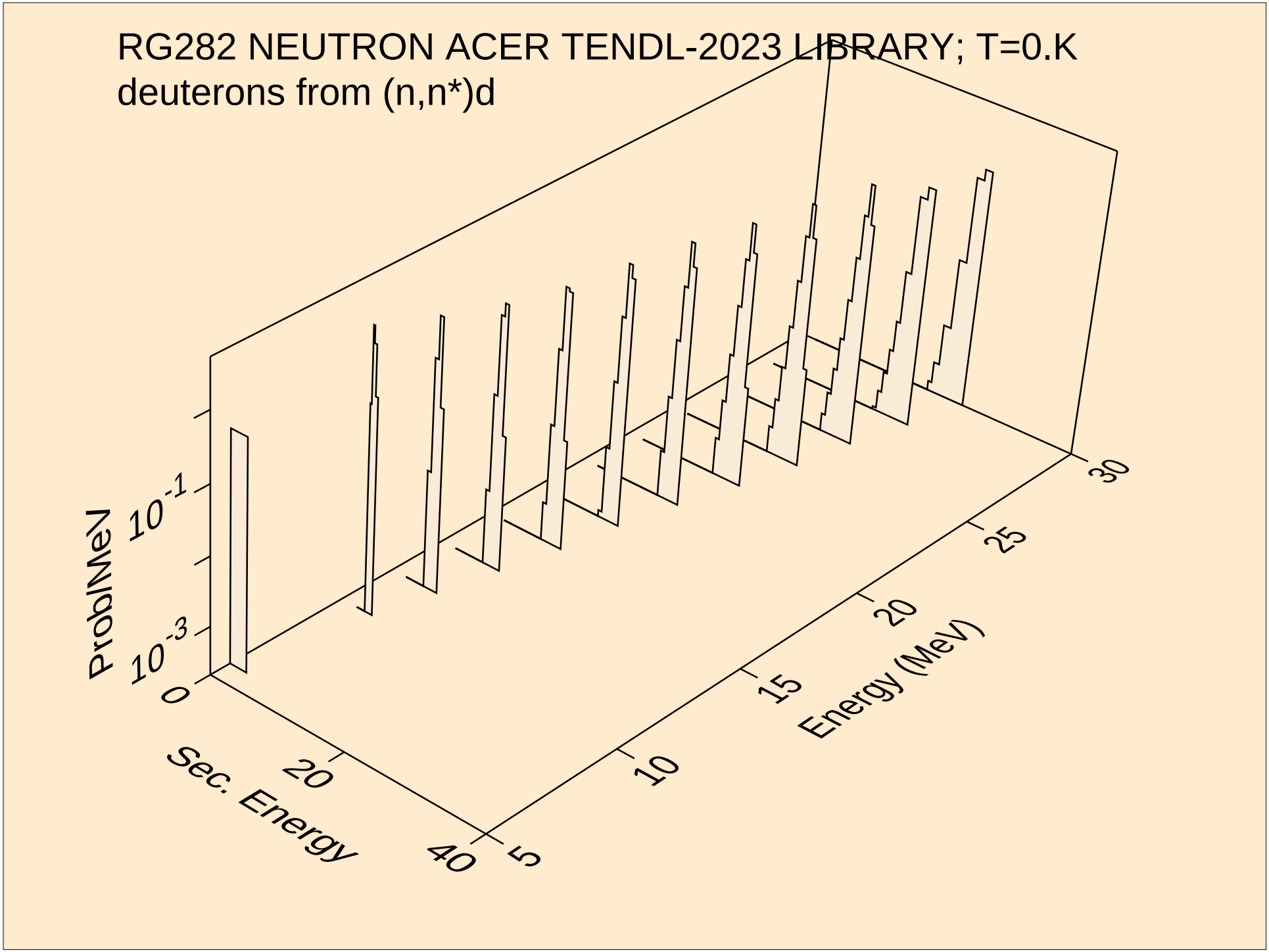

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,2p)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)

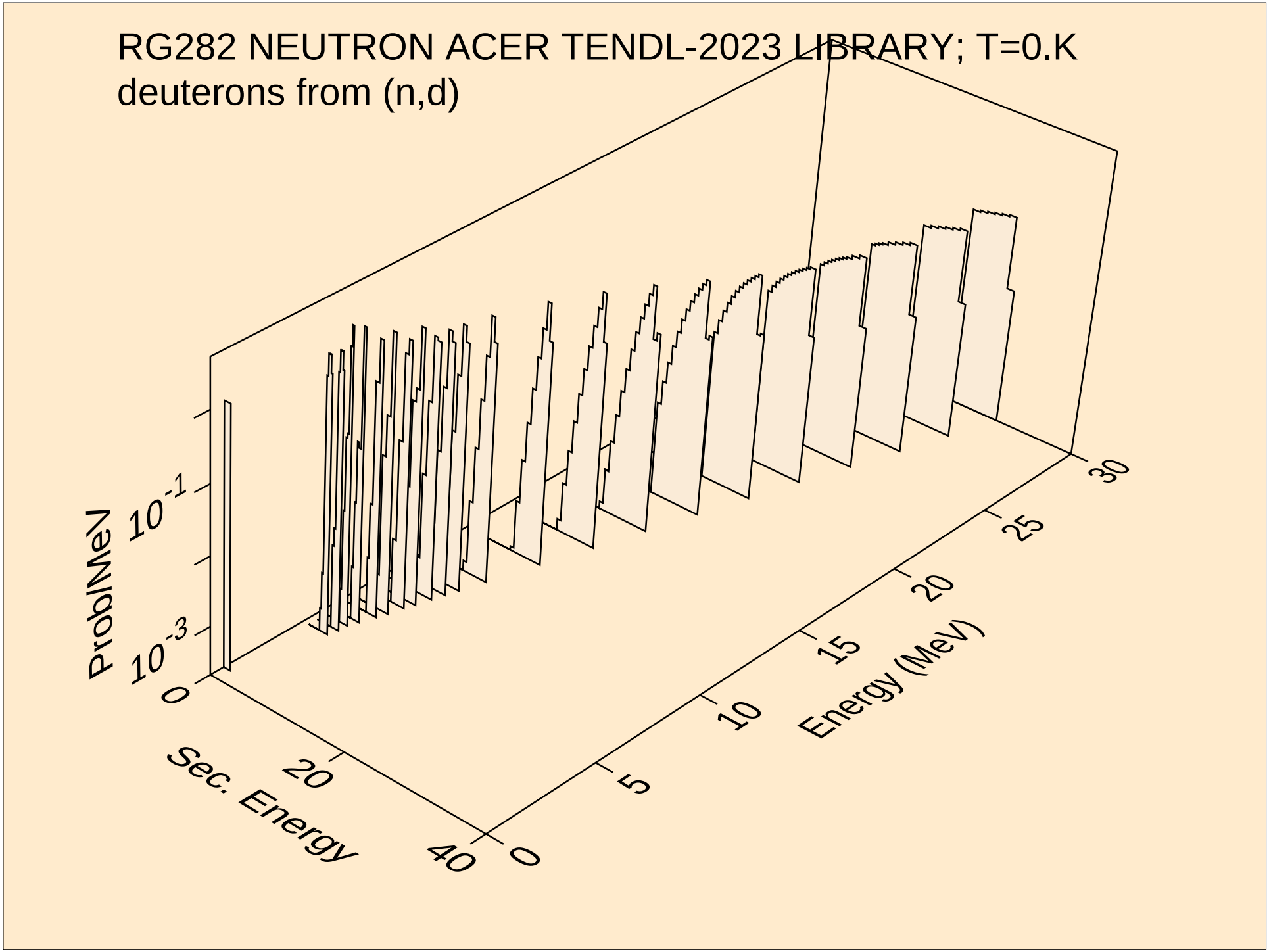

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,pa)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

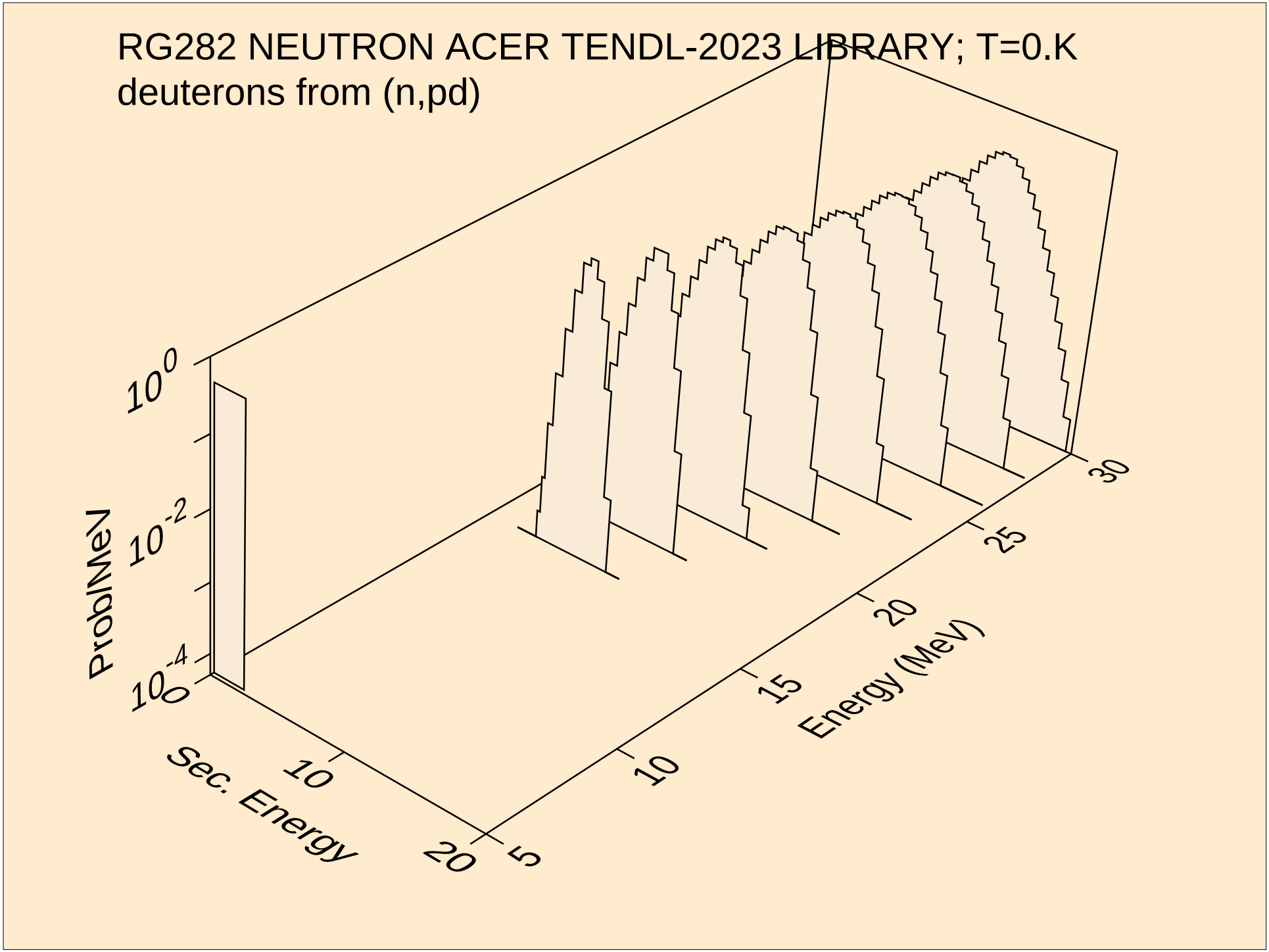

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,pd)
Prob/MeV
10^0
10^-2
10^-4
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

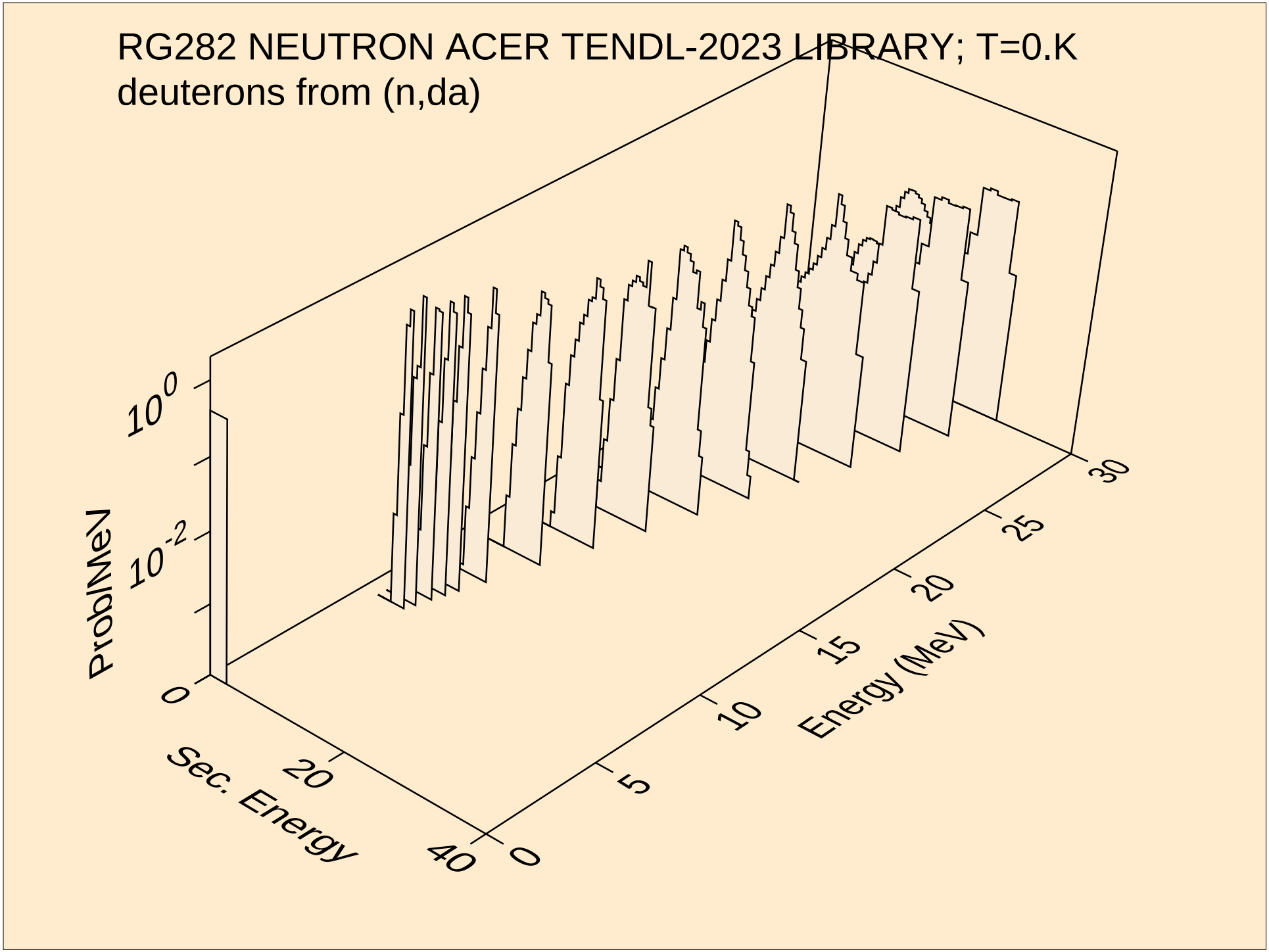

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

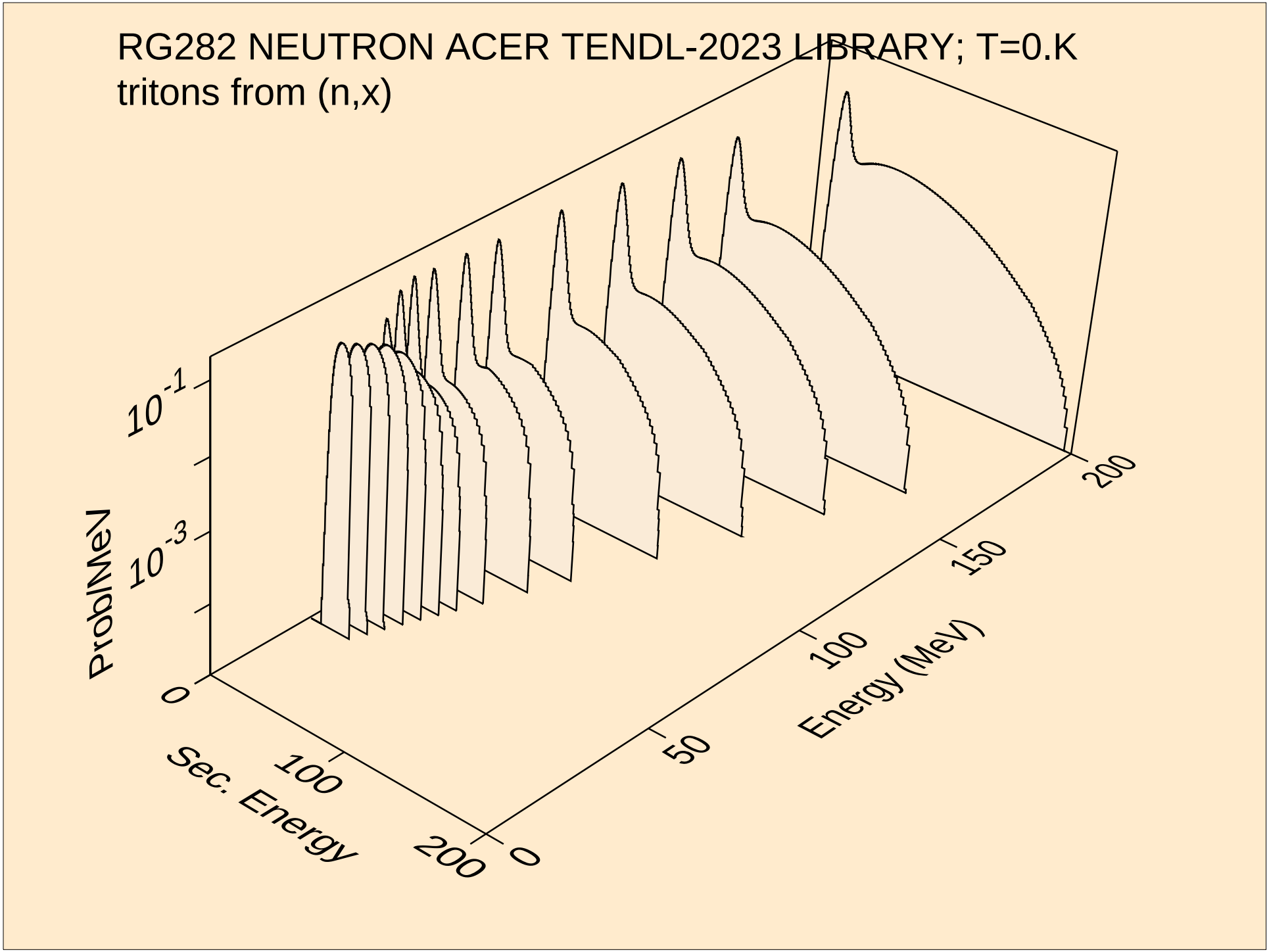

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,2nd)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
12
14
16
18
20
22
24
26
28
30
Energy (MeV)

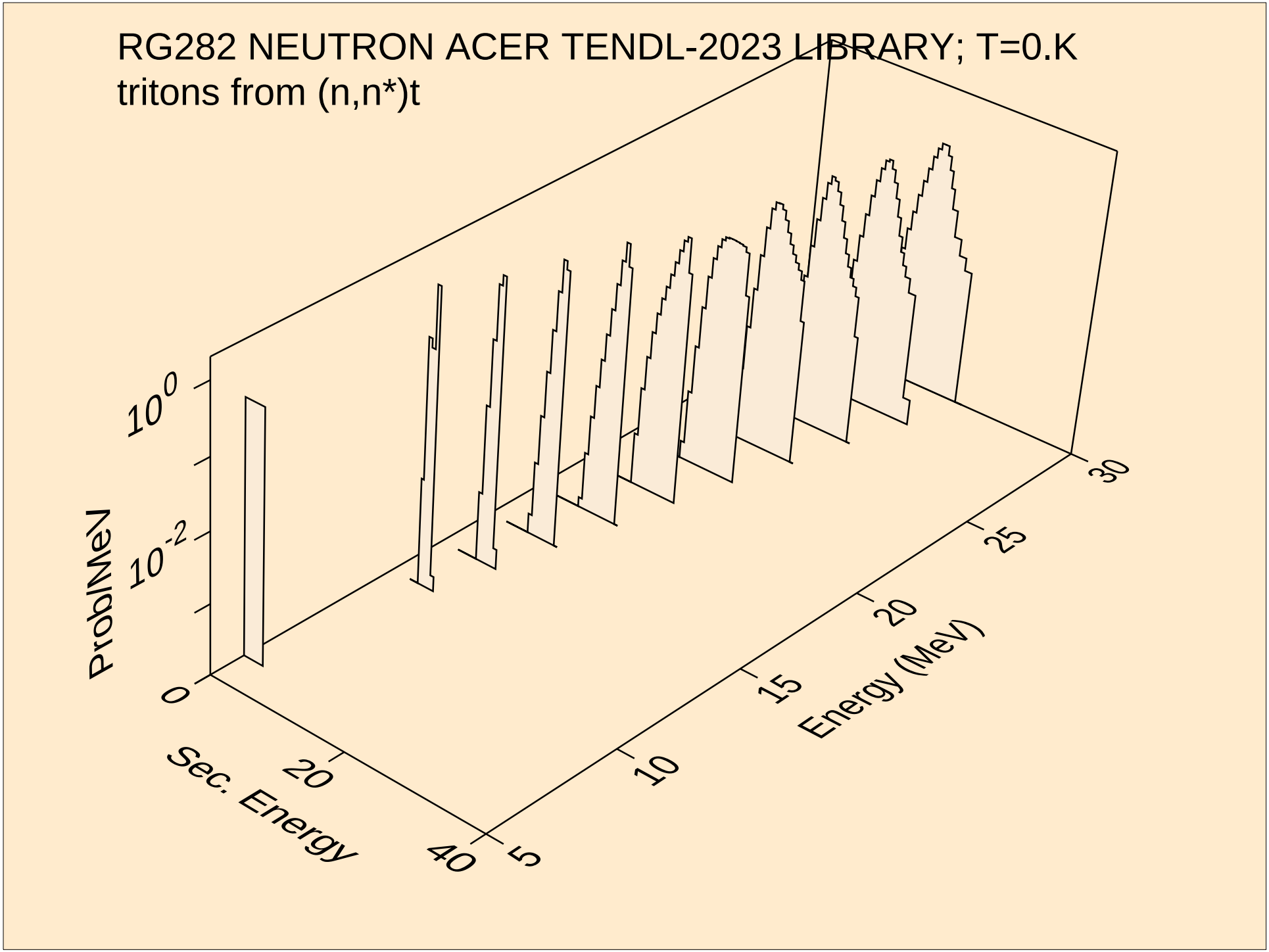

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,n*)d
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
5
10
15
20
25
30
Energy (MeV)

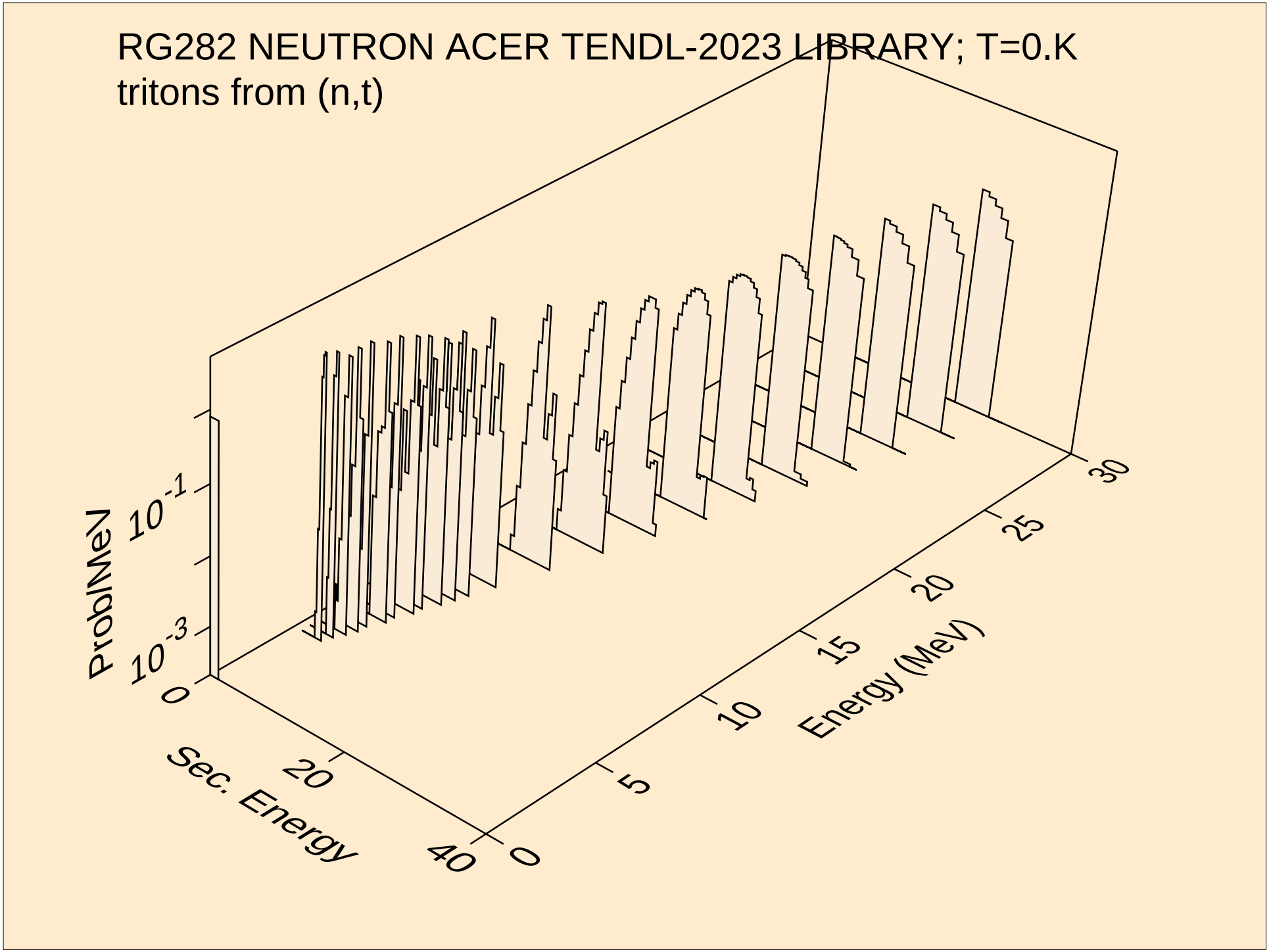

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,d)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

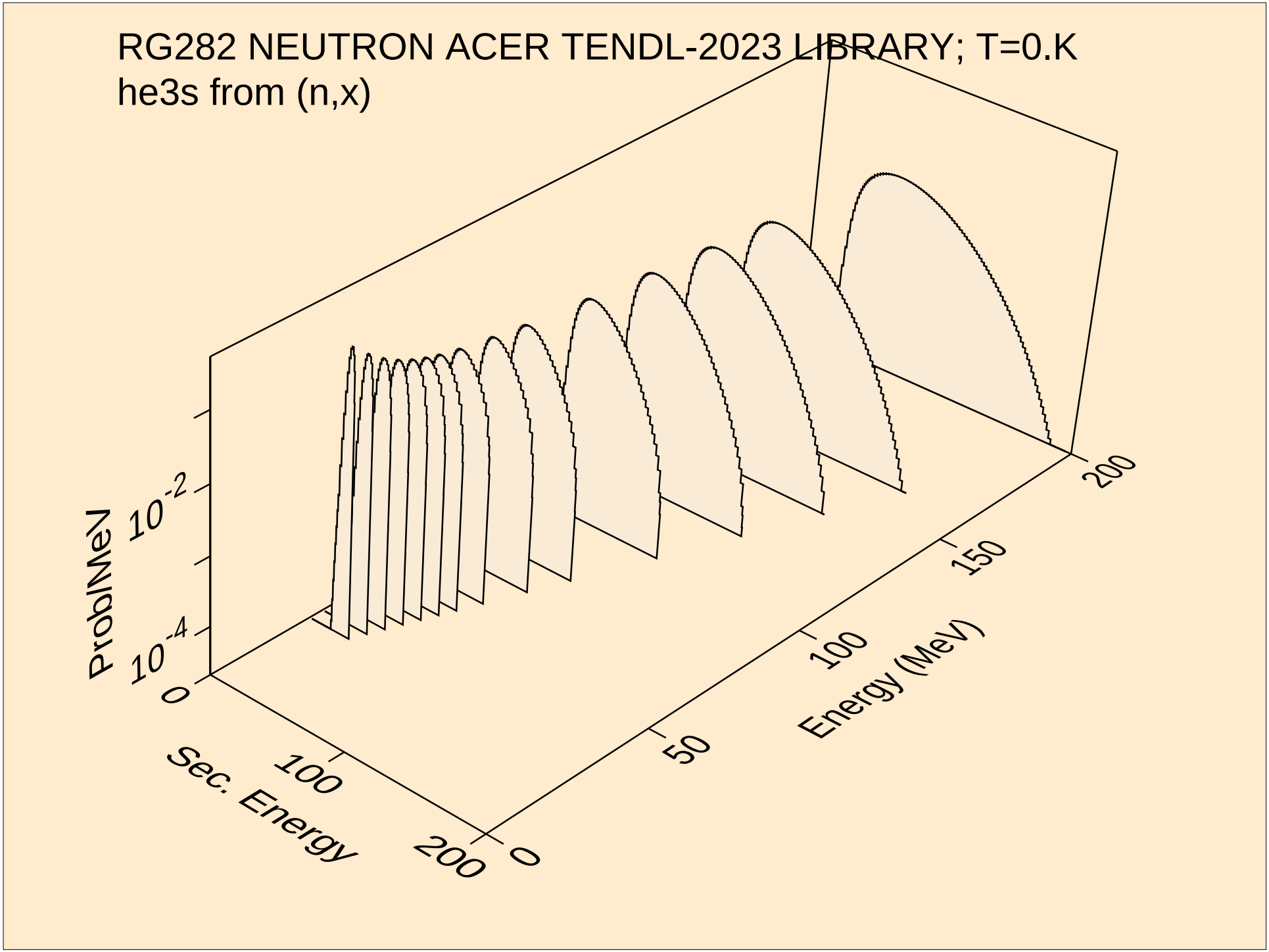

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,pd)
Prob/MeV
10^0
10^-2
10^-4
0
Sec. Energy
10
20
5
10
15
20
25
30
Energy (MeV)

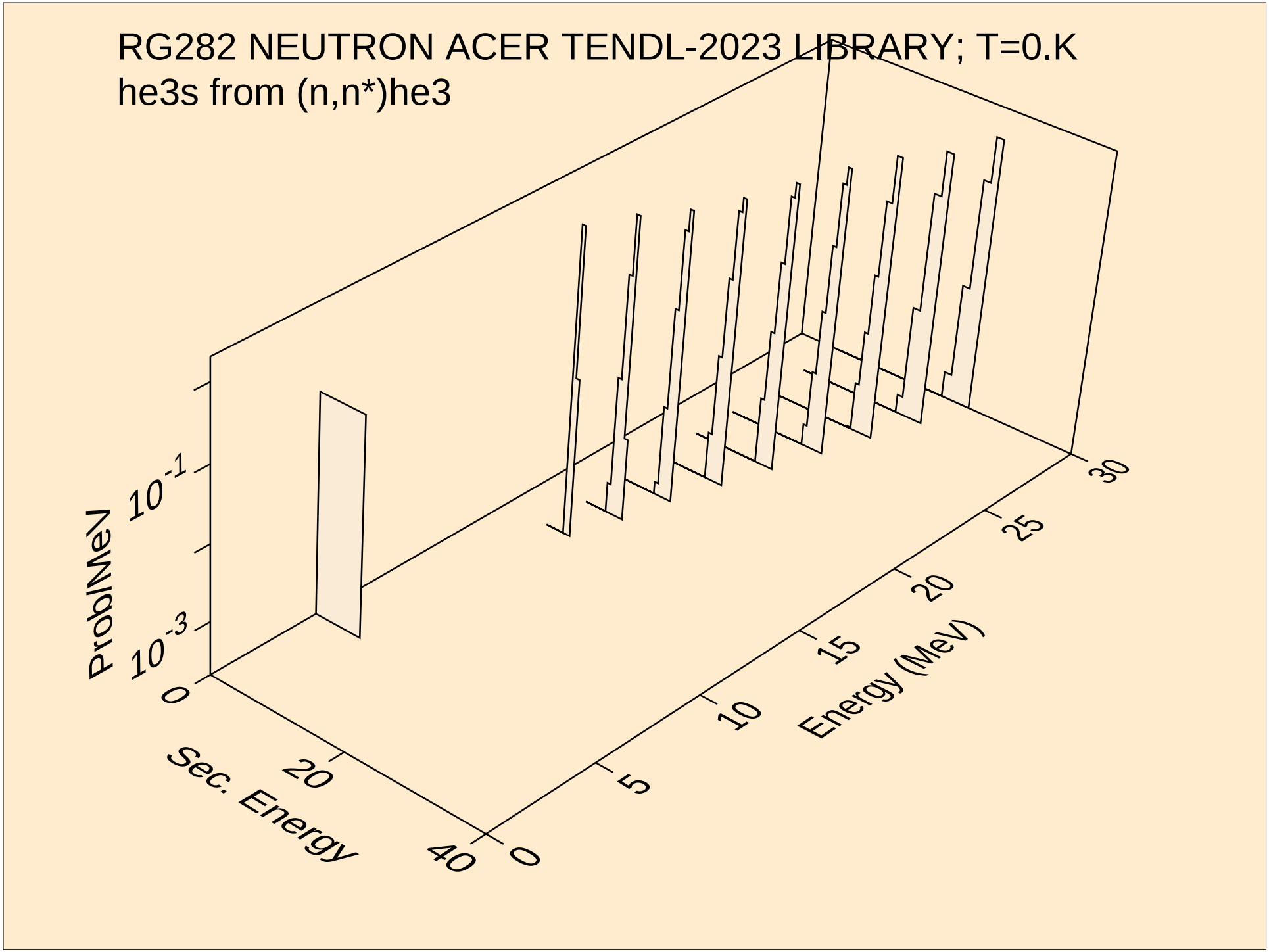

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,da)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

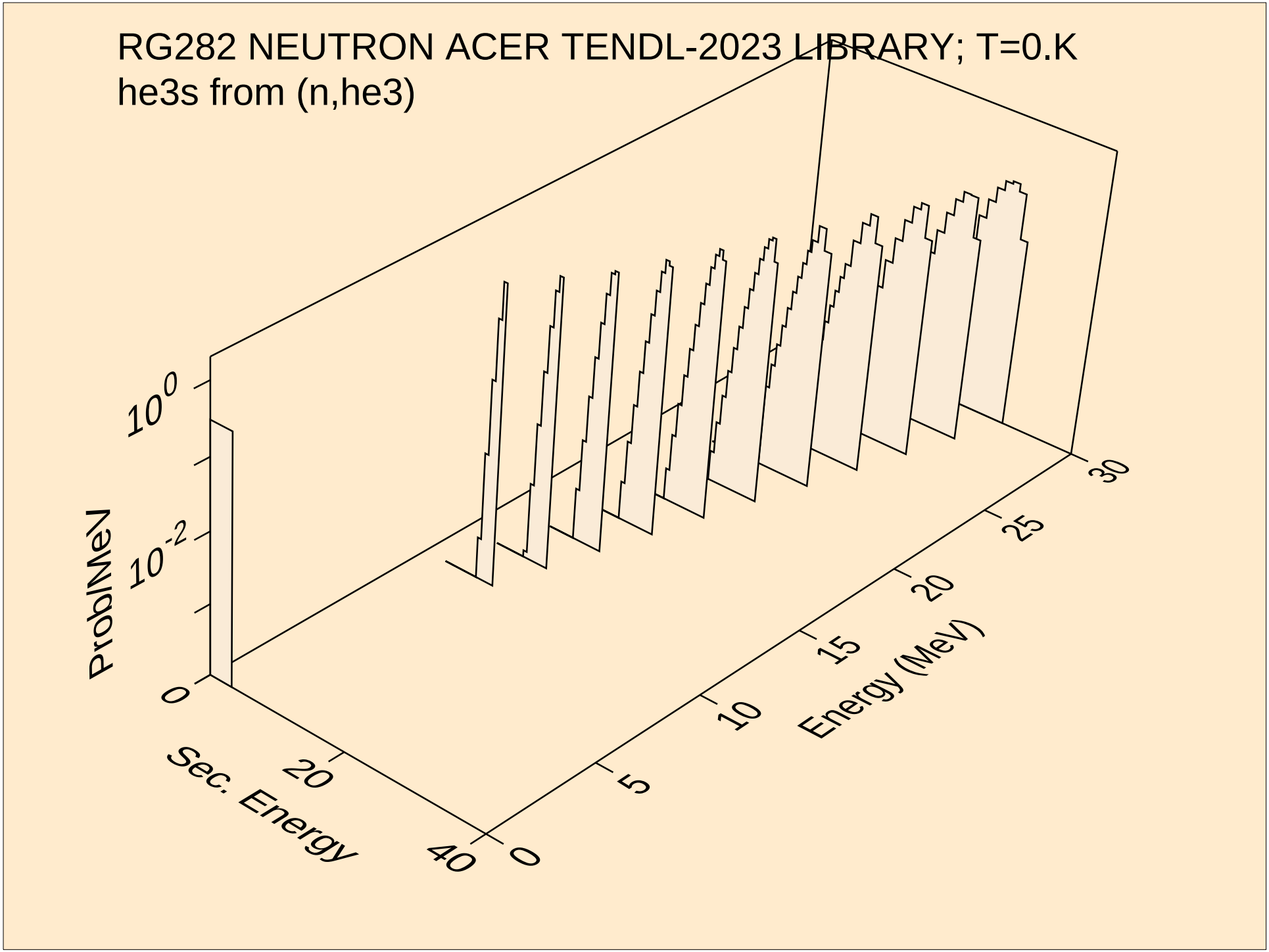

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

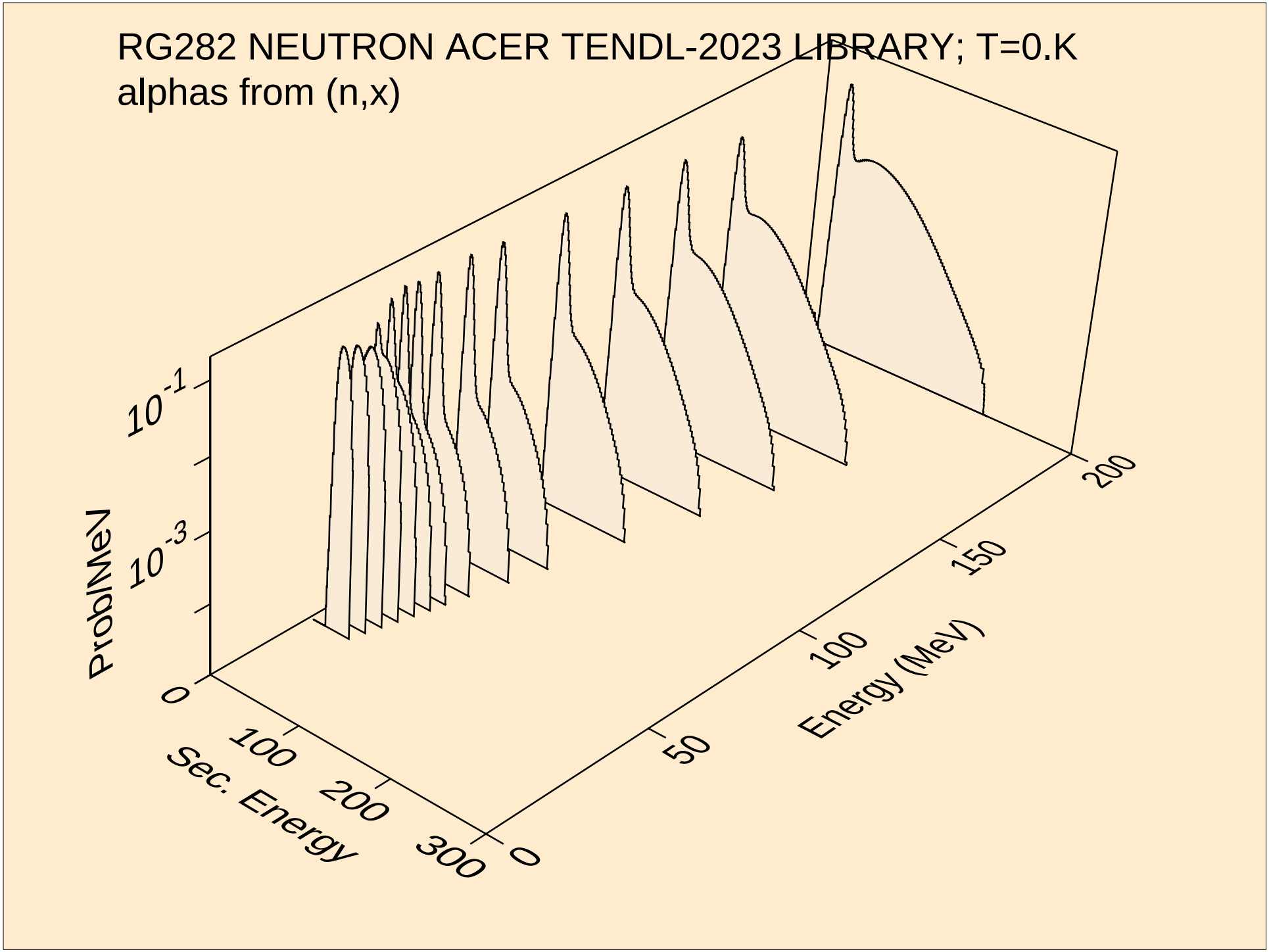

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,n*)t
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
5
10
15
Energy (MeV)
20
25
30

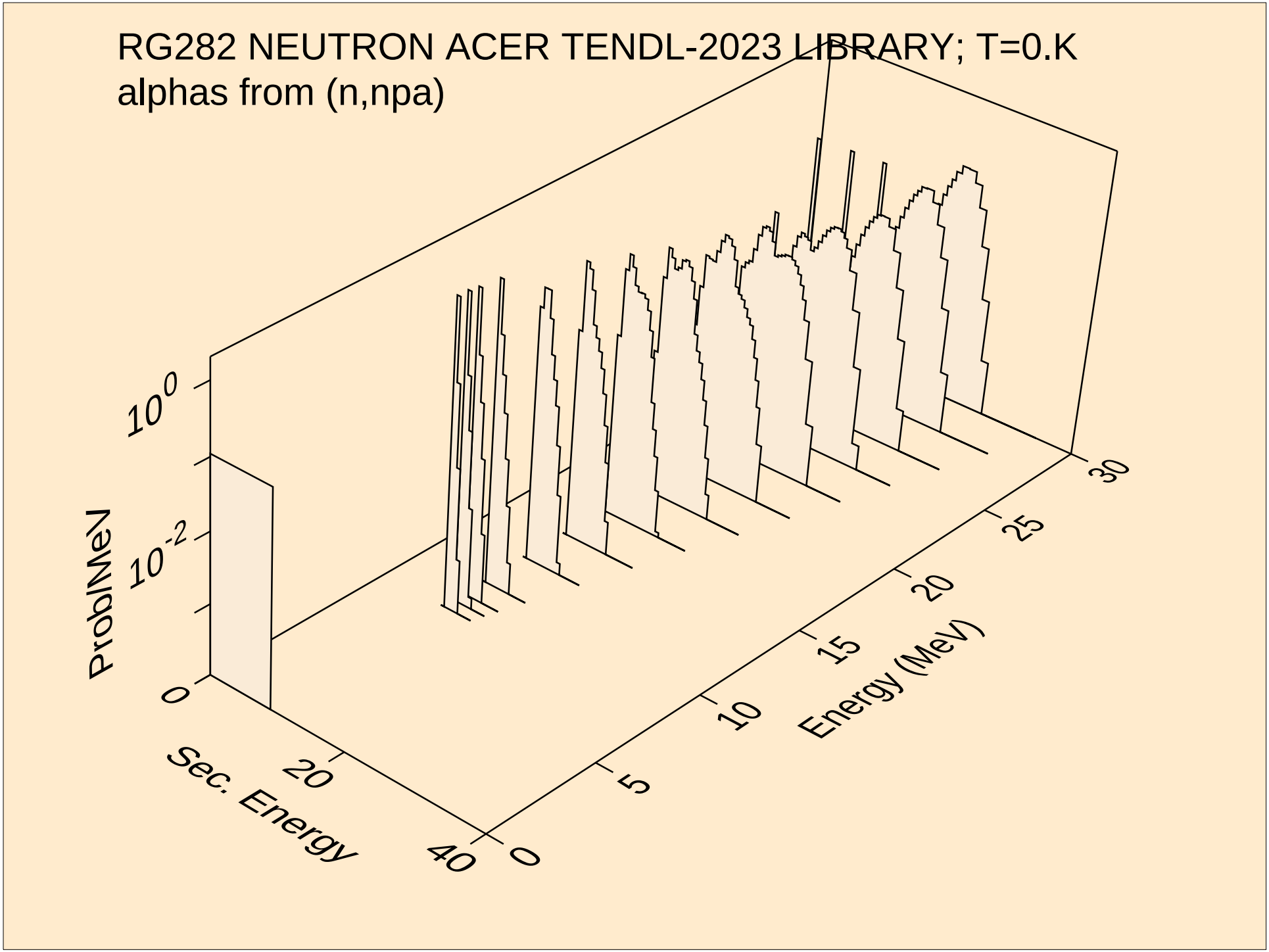

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,t)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

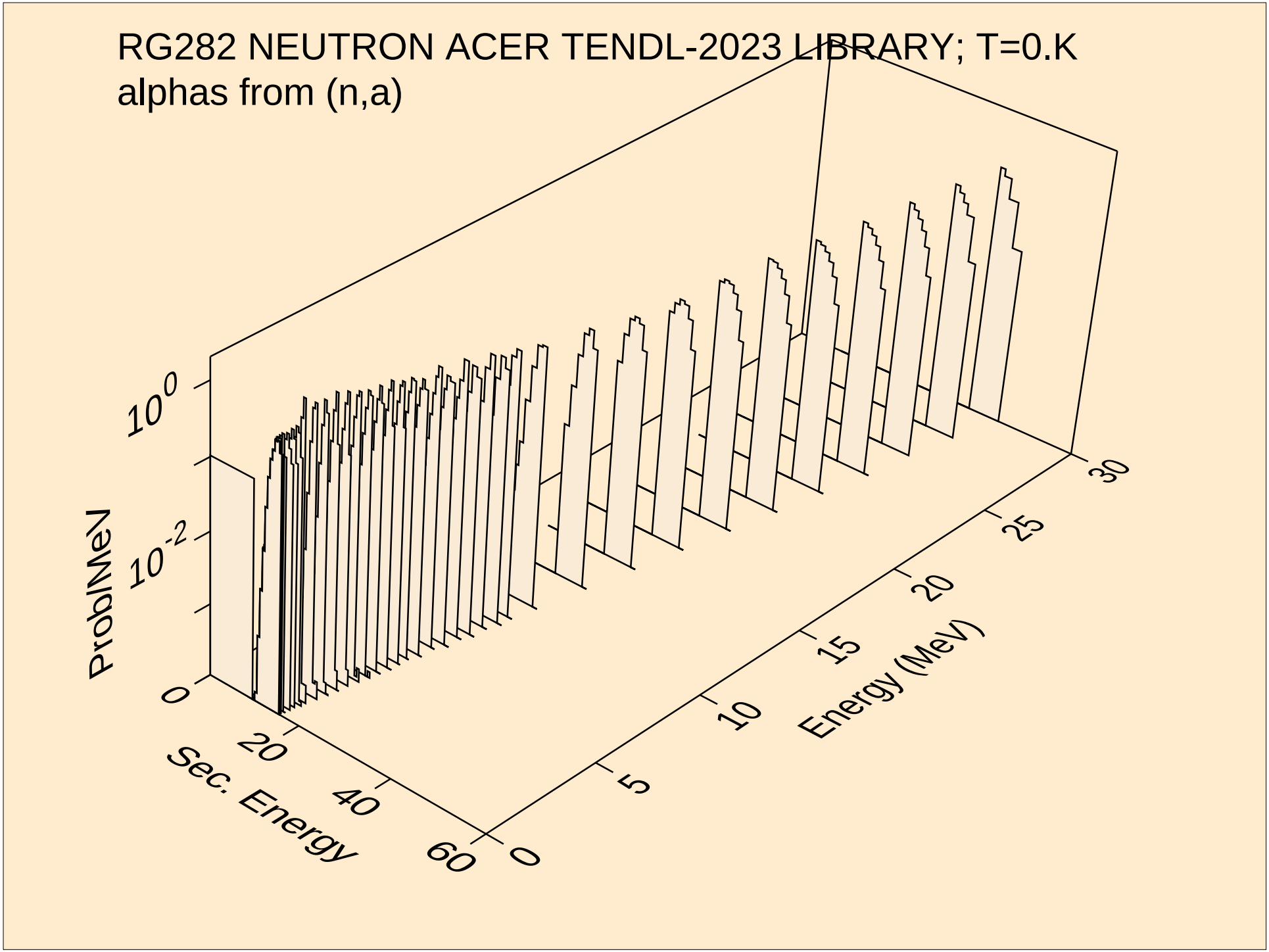

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,x)
Prob/MeV
10-2
10-4
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

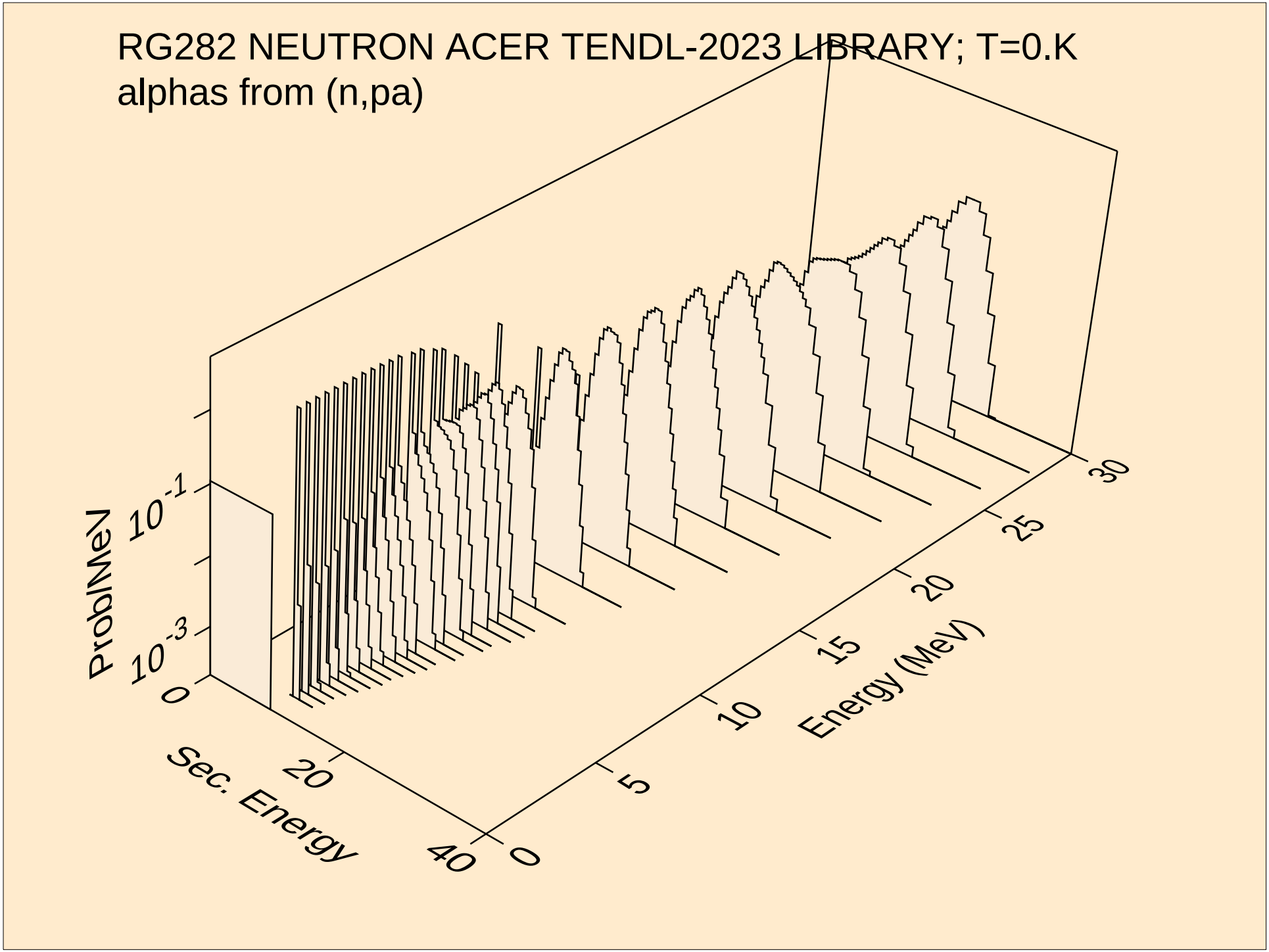

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,n*)he3
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)

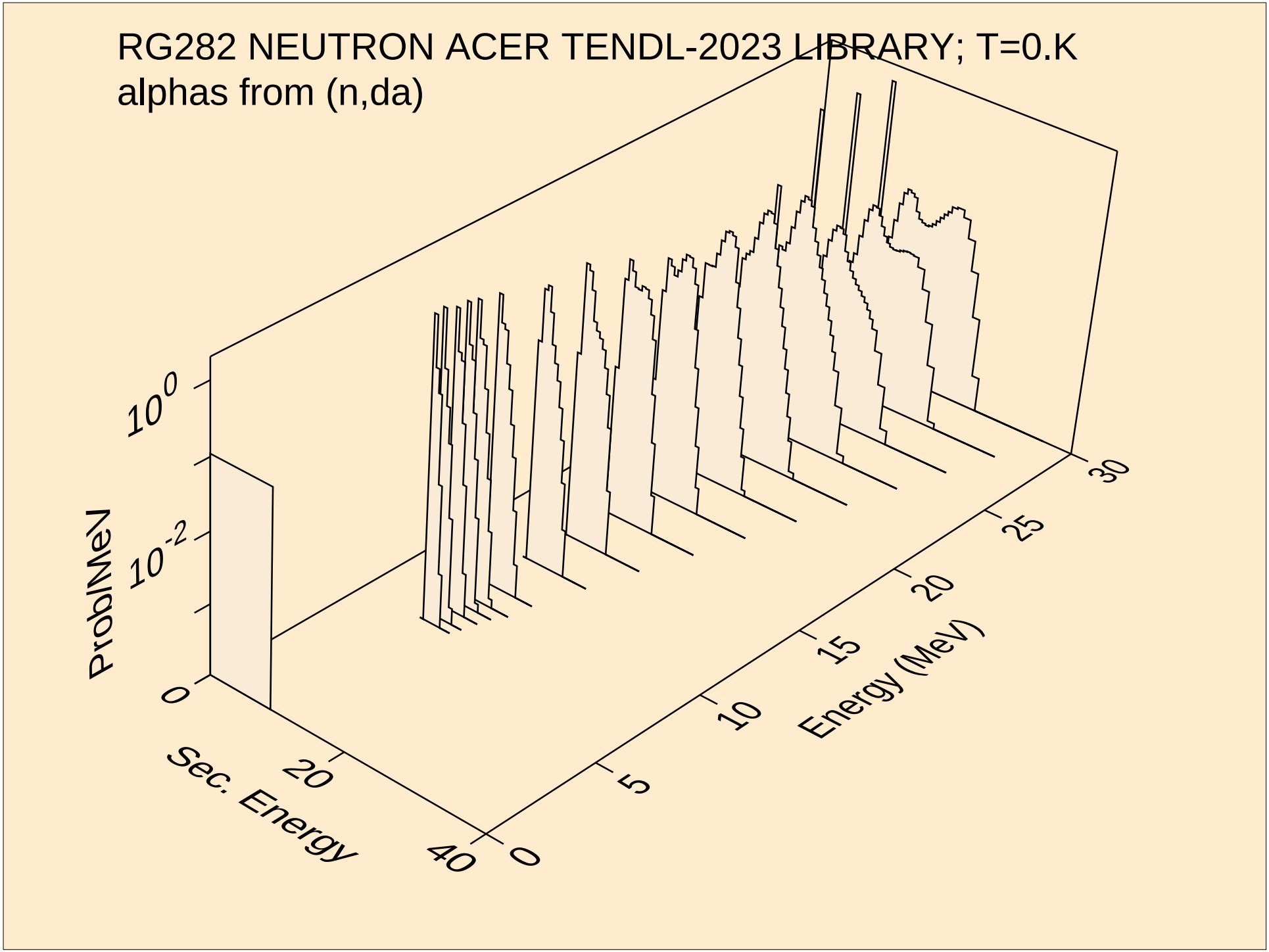

RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,he3)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)


RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,x)
Prob/MeV
10-1
10-3
0
100
200
300
Sec. Energy
0
50
100
150
200
Energy (MeV)


RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,npa)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)


RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,a)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
60
0
5
10
15
20
25
30
Energy (MeV)


RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,pa)
Prob/MeV
10-1
10-3
0
Sec. Energy
0
20
40
Energy (MeV)
0
5
10
15
20
25
30


RG282 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,da)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
0
5
10
15
20
25
30
Energy (MeV)