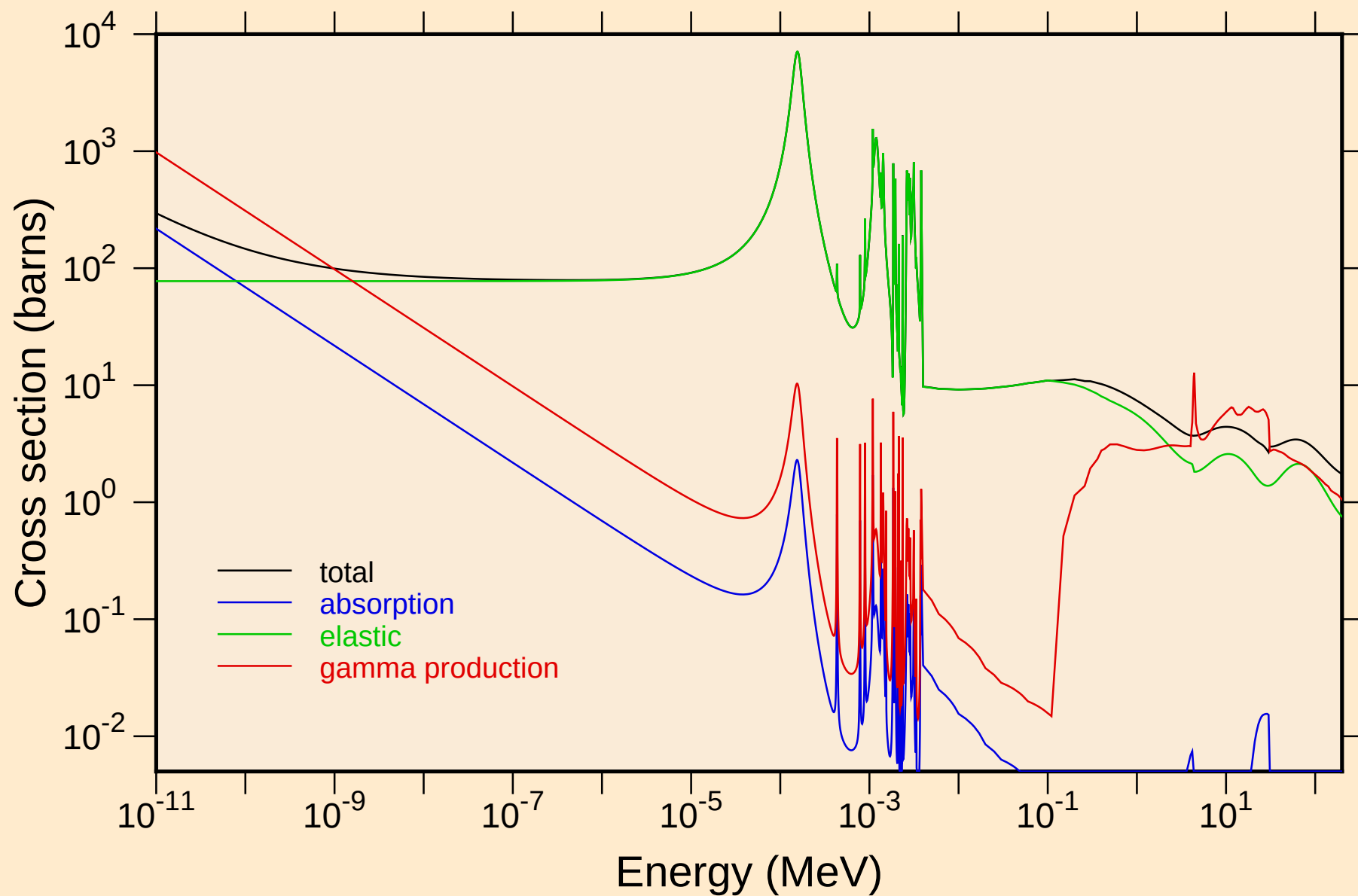
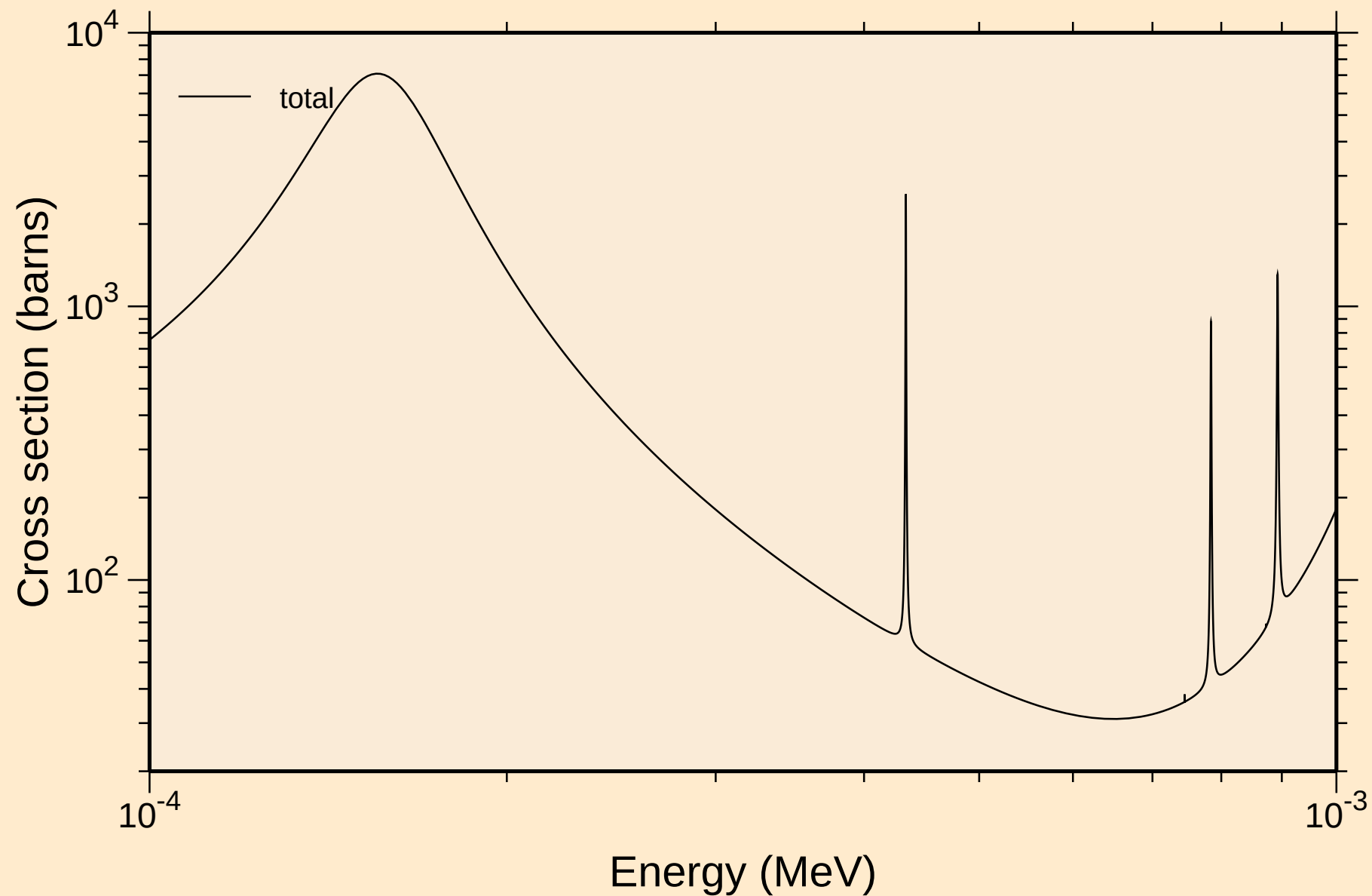


# ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

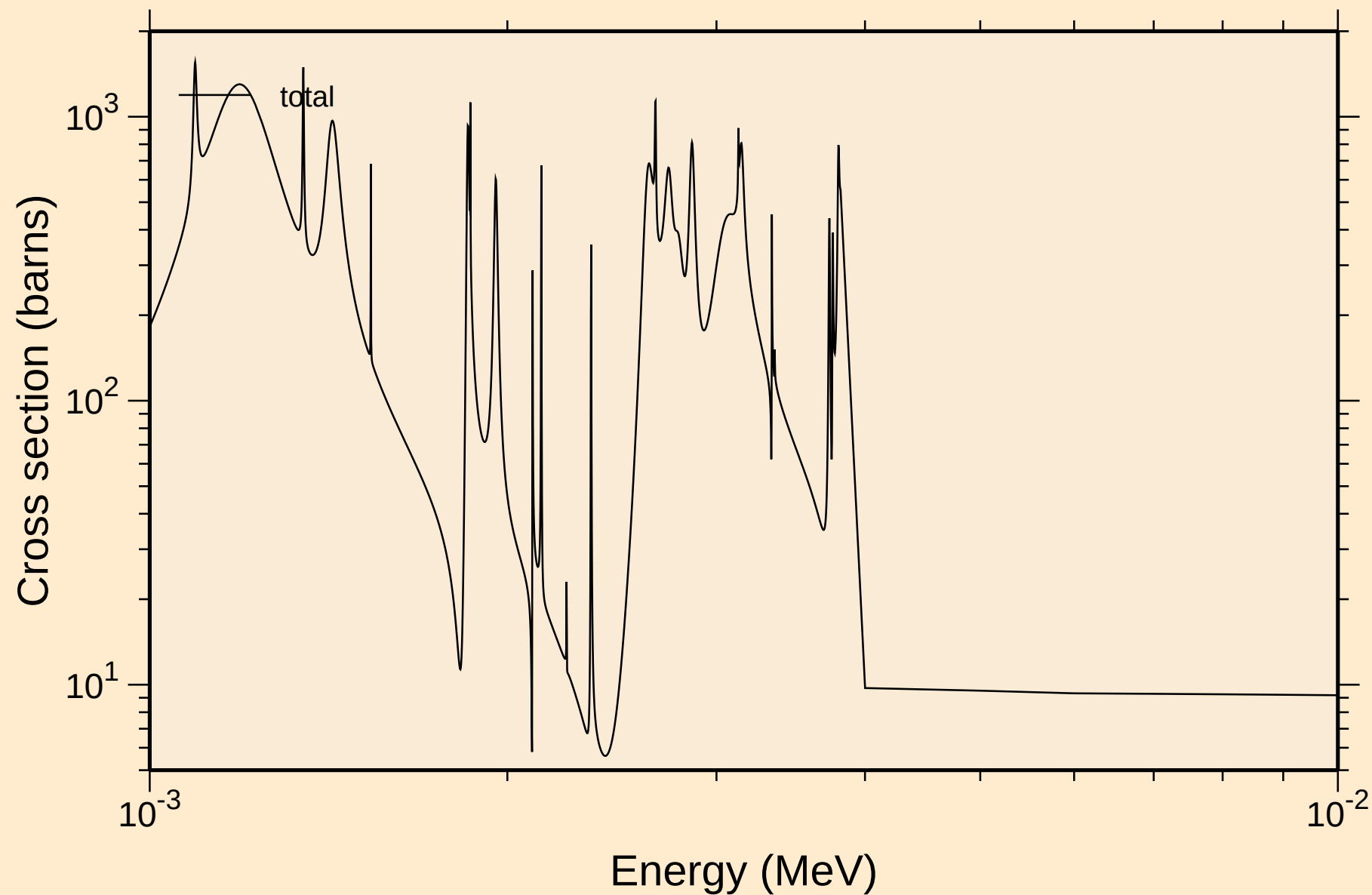
## Principal cross sections



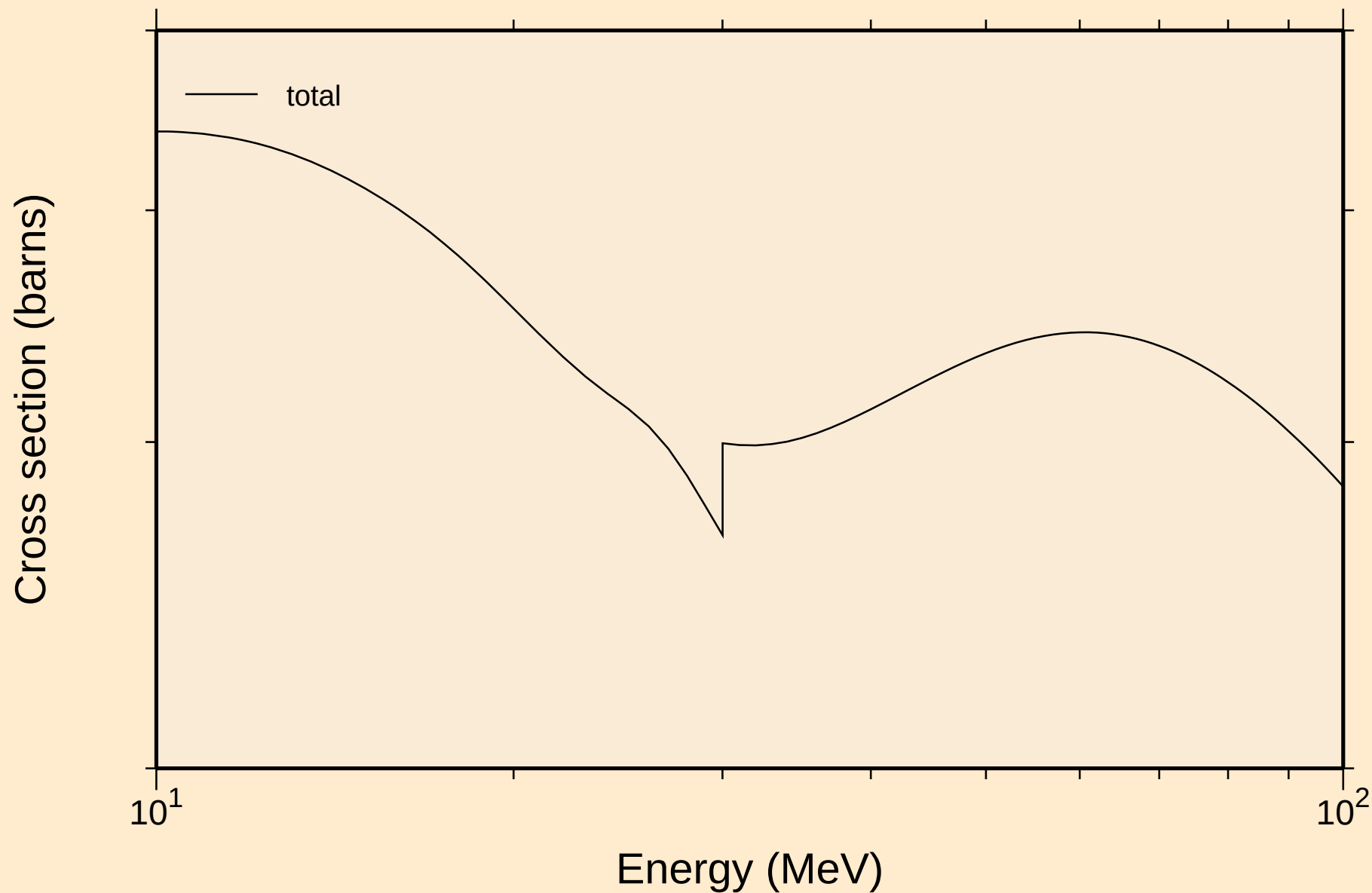
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



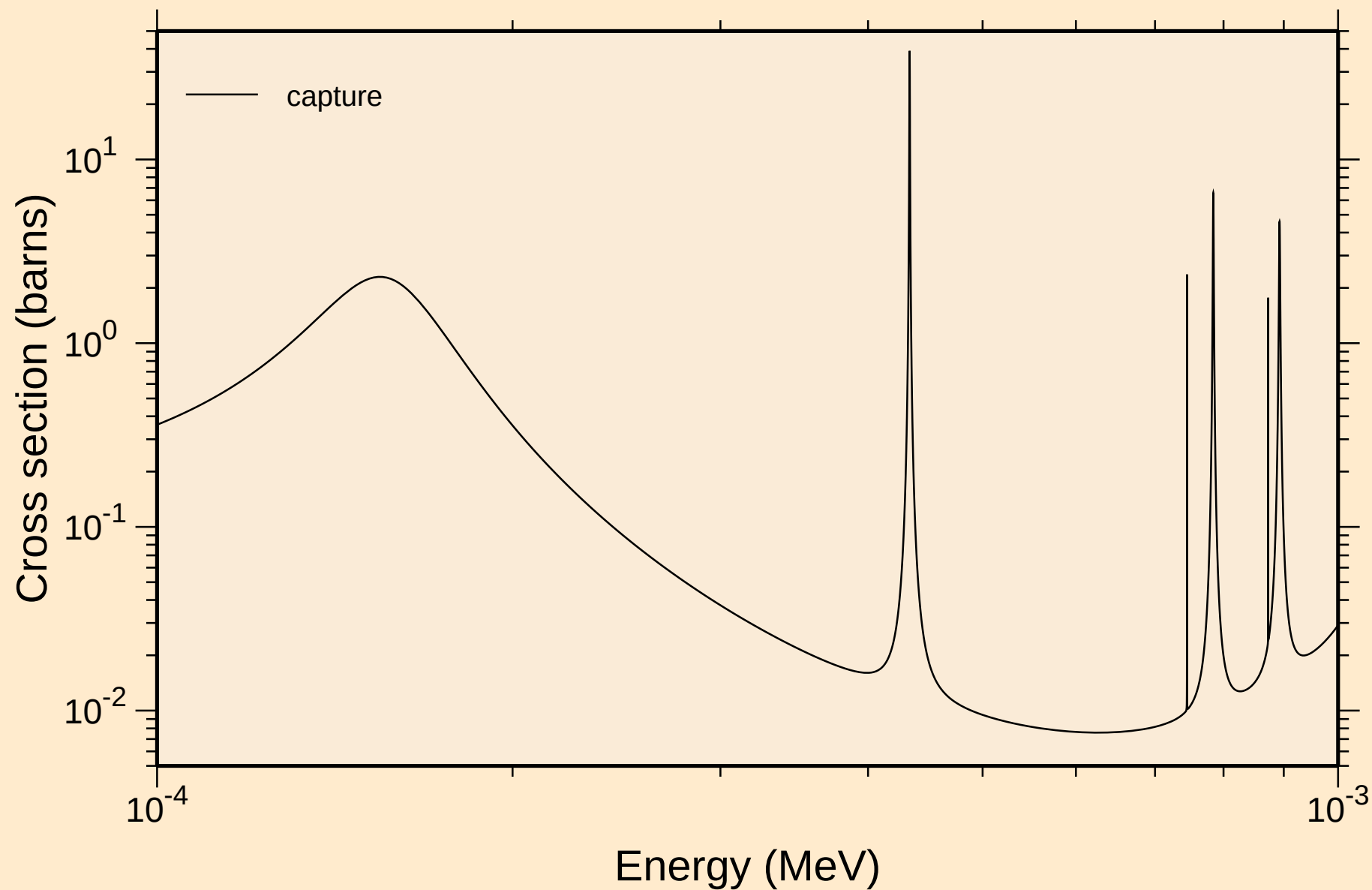
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



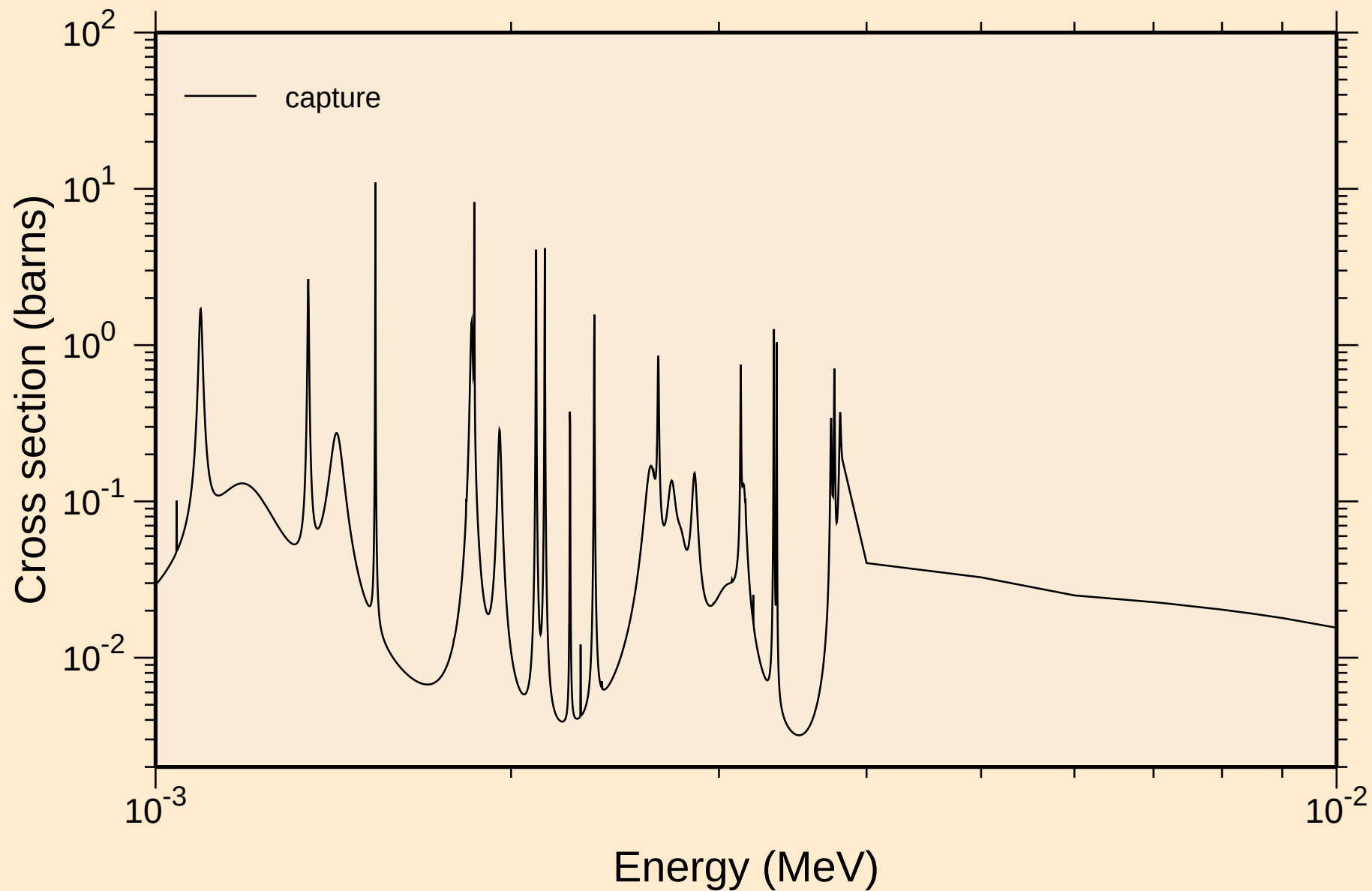
Zr103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



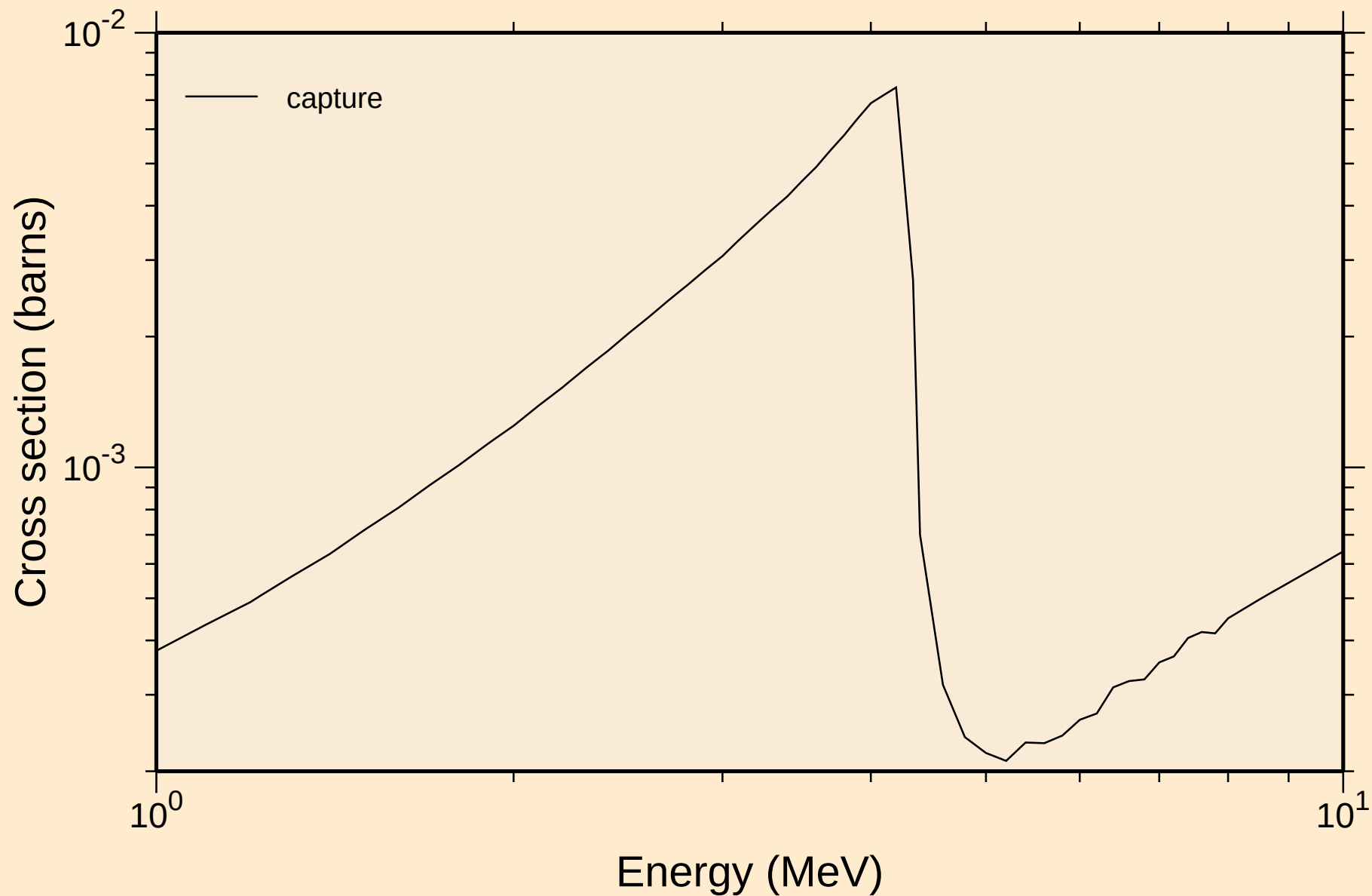
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



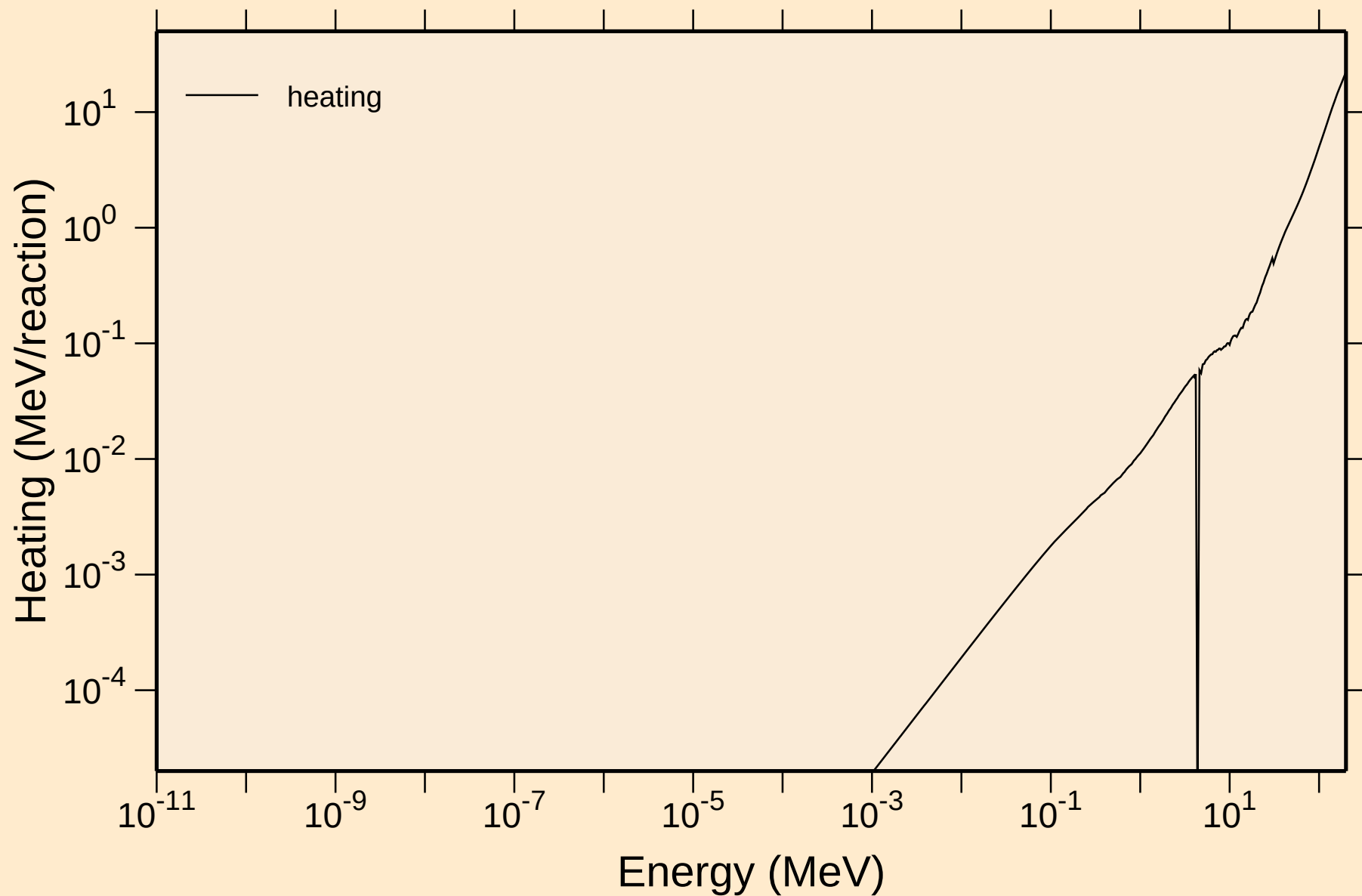
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

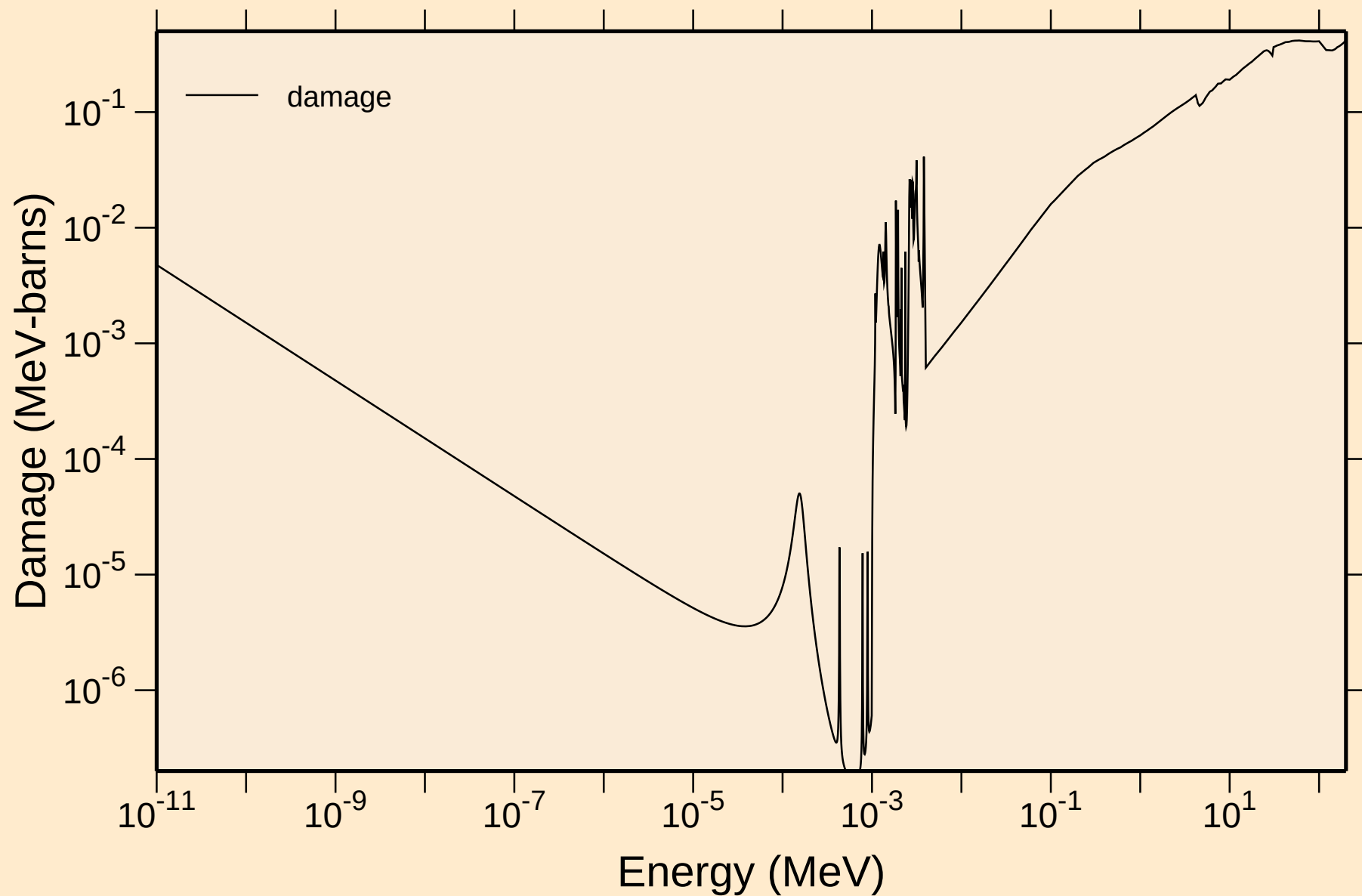


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating

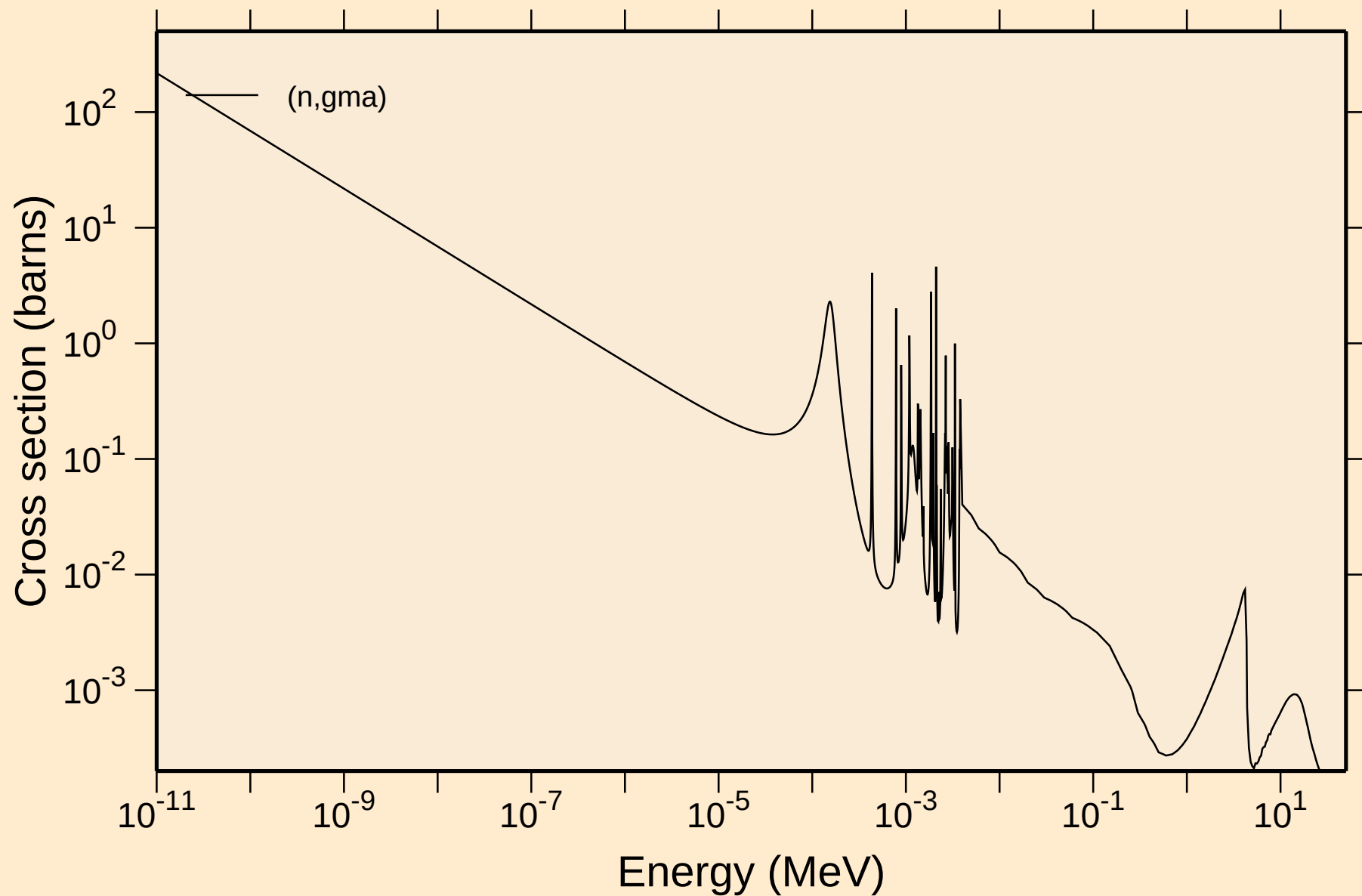




ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

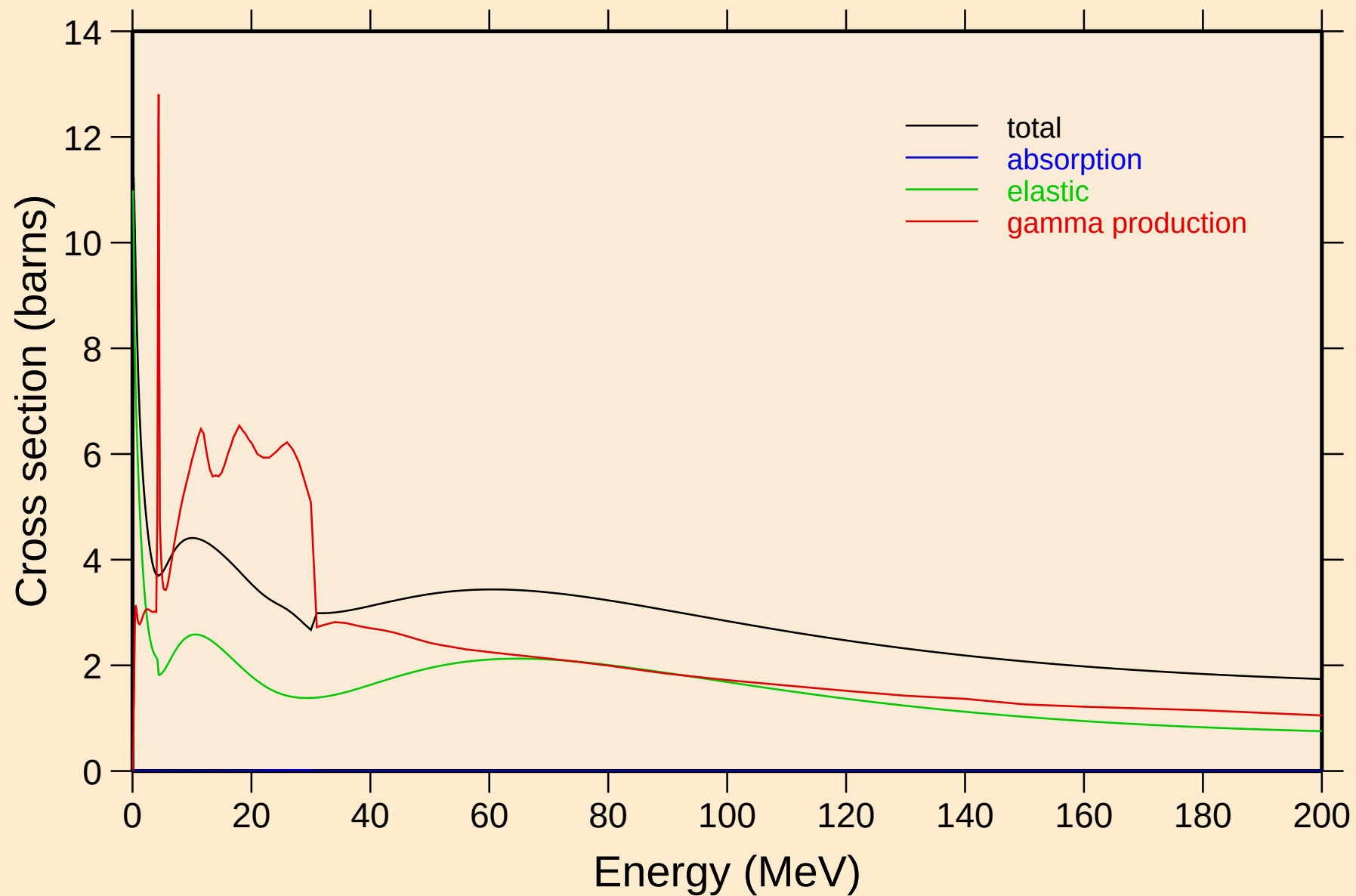


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

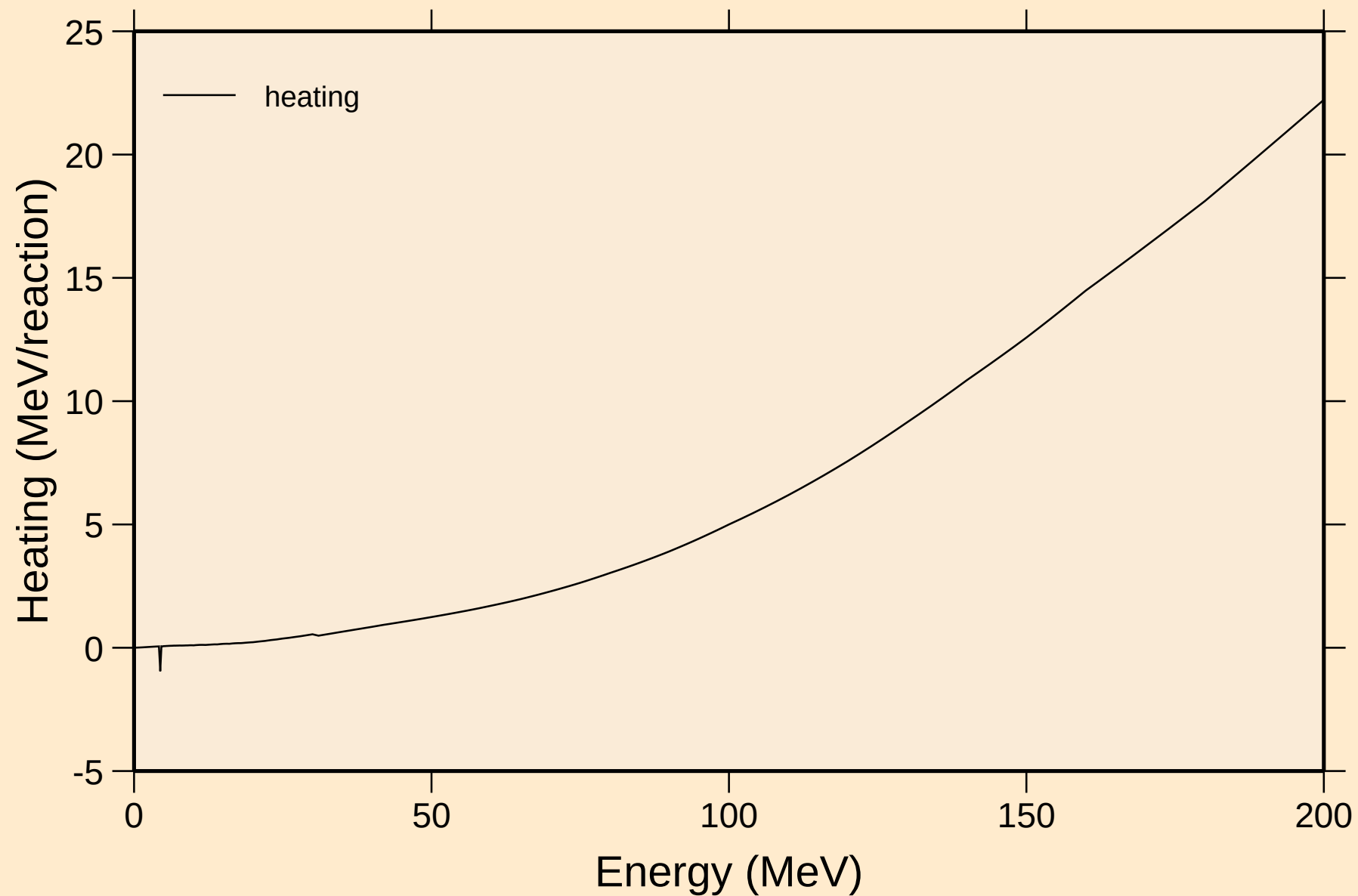


# ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

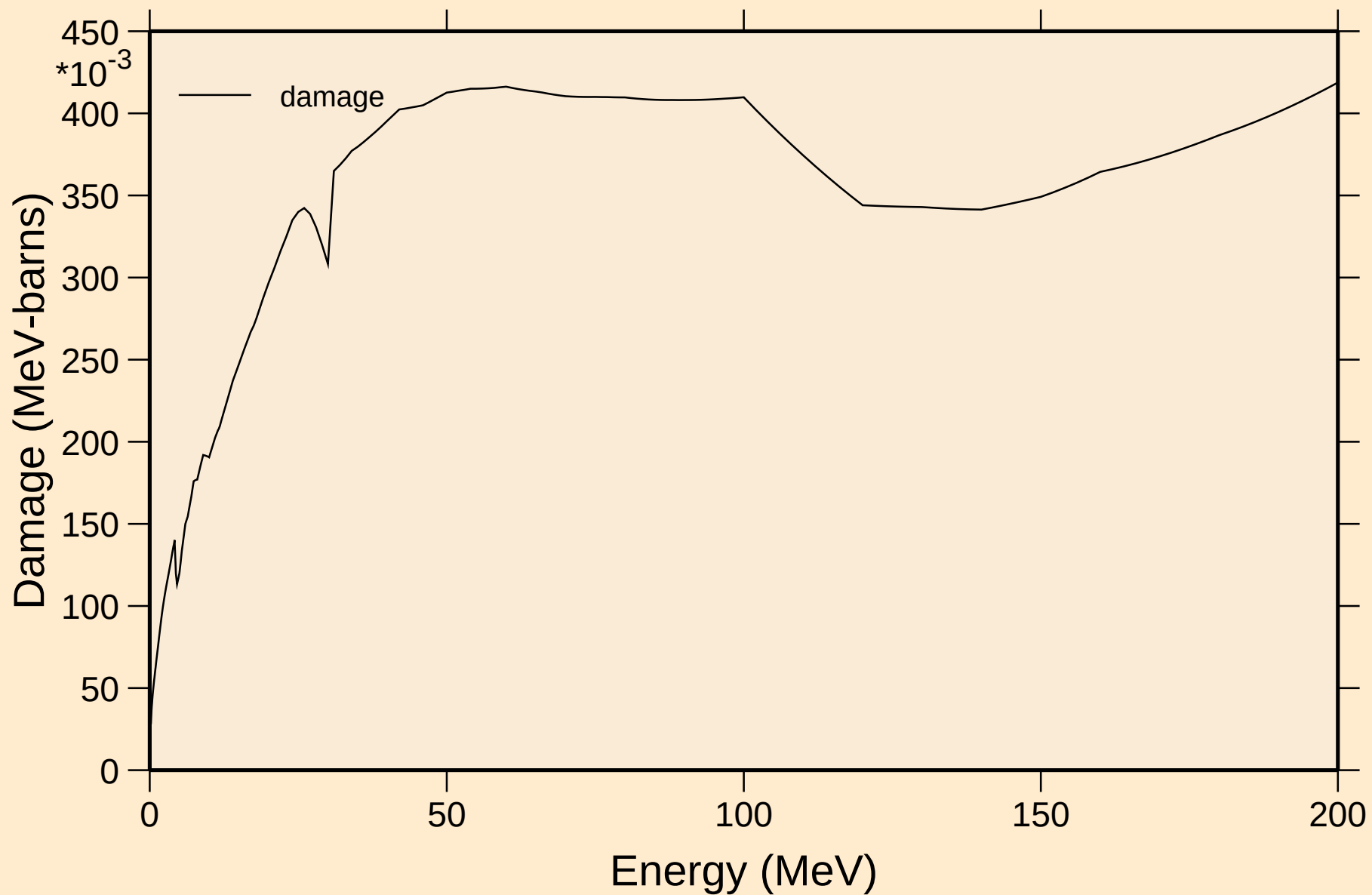


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating

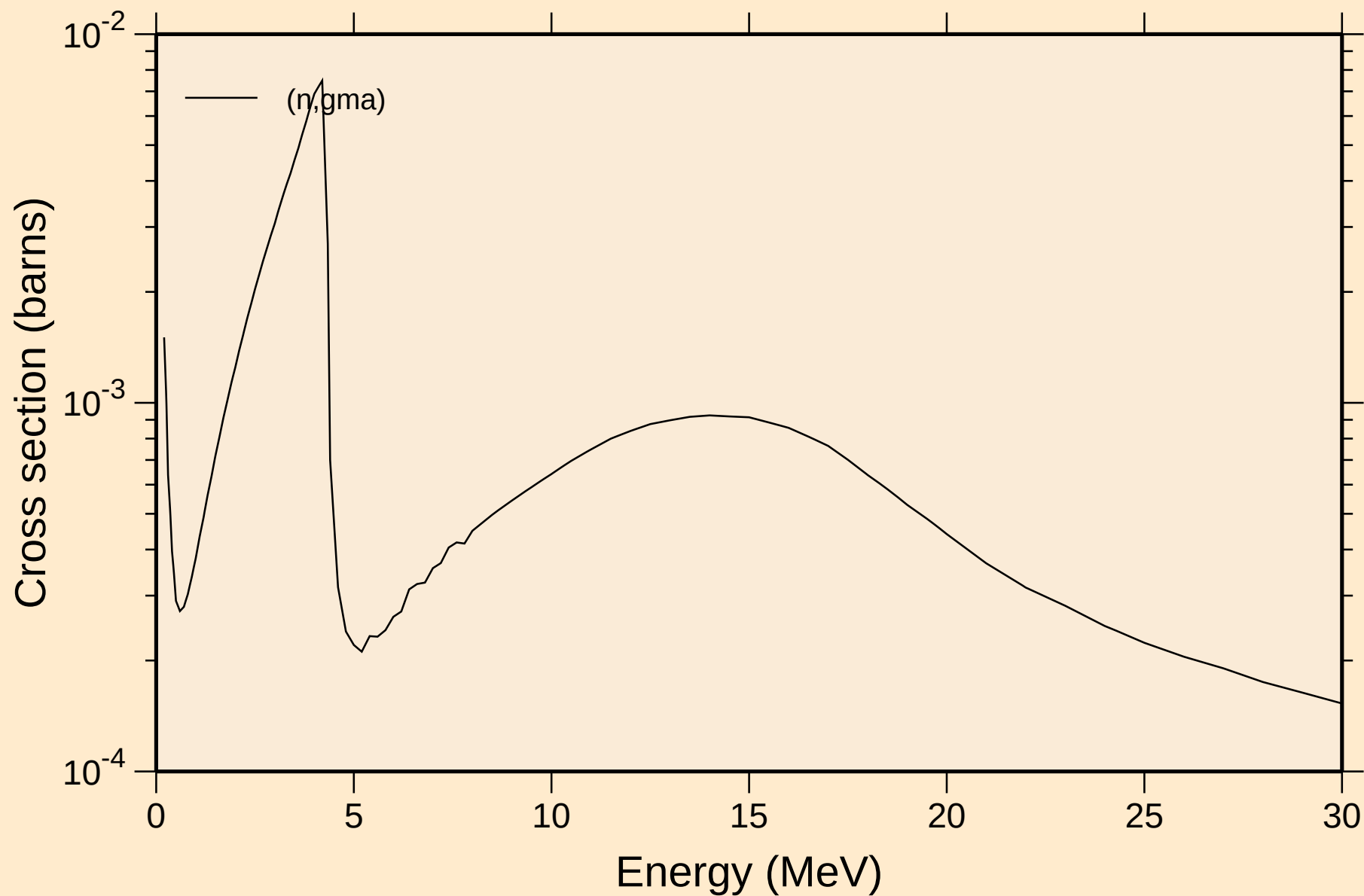


# ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Damage

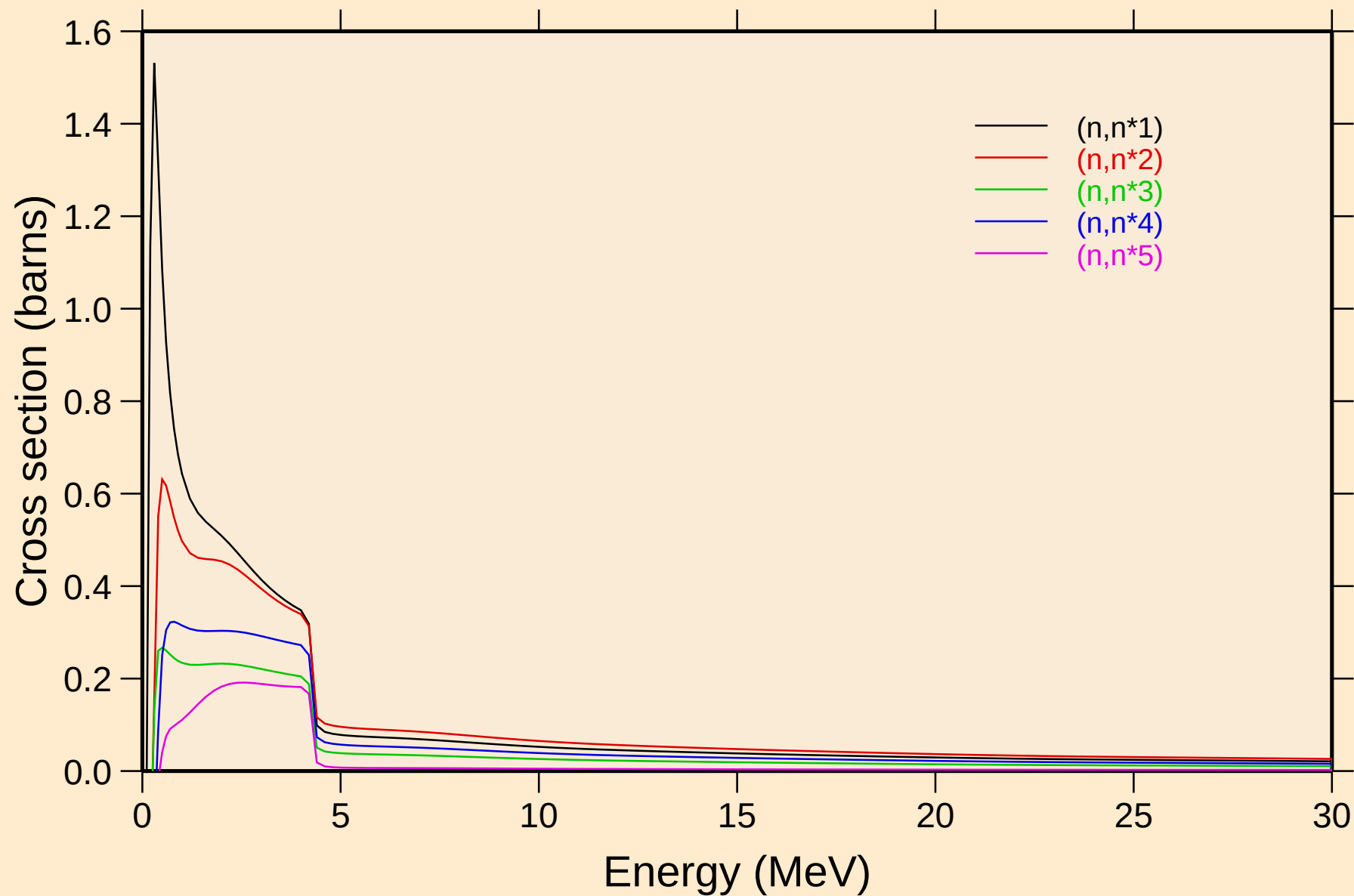


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

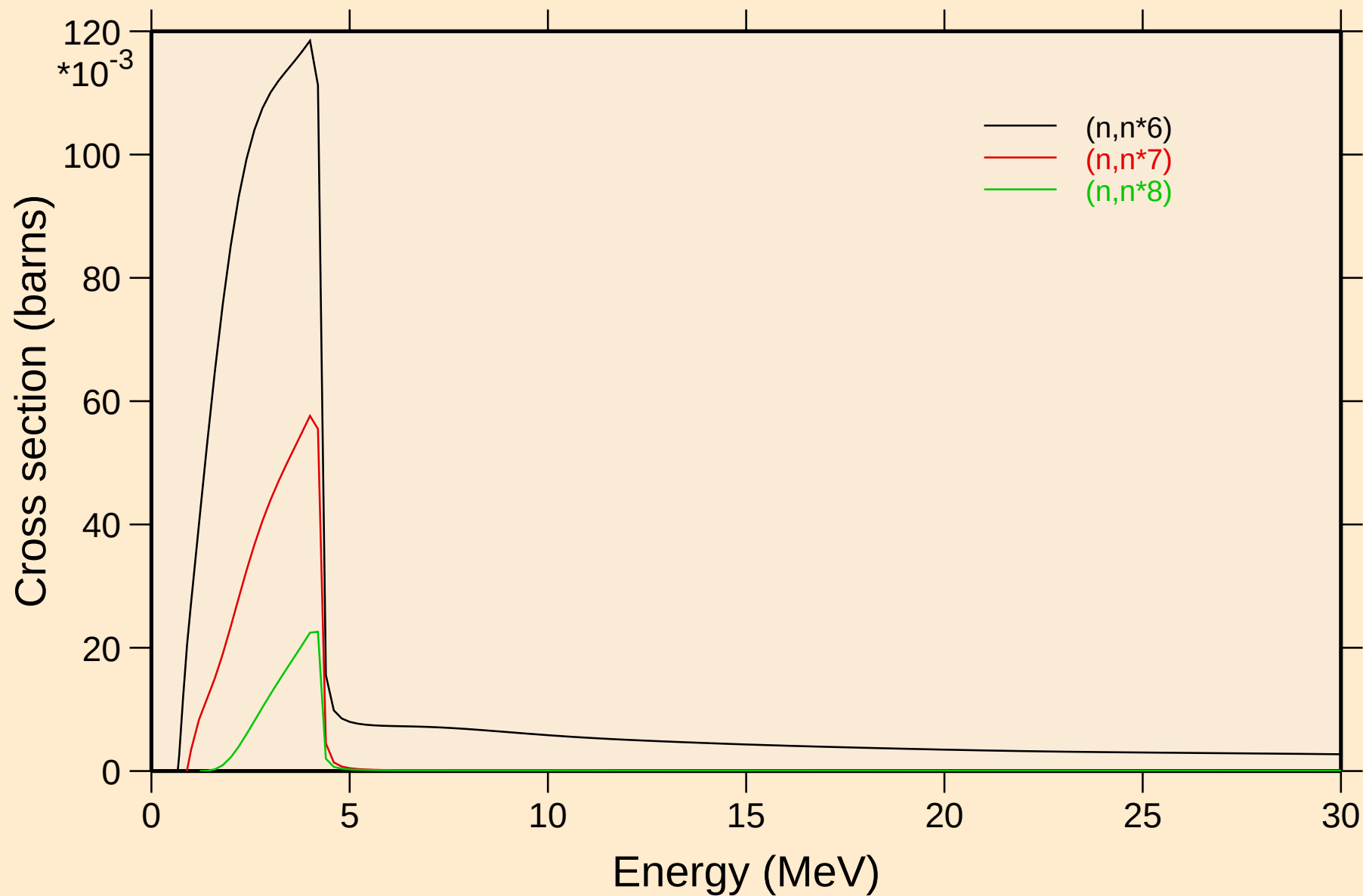


# ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



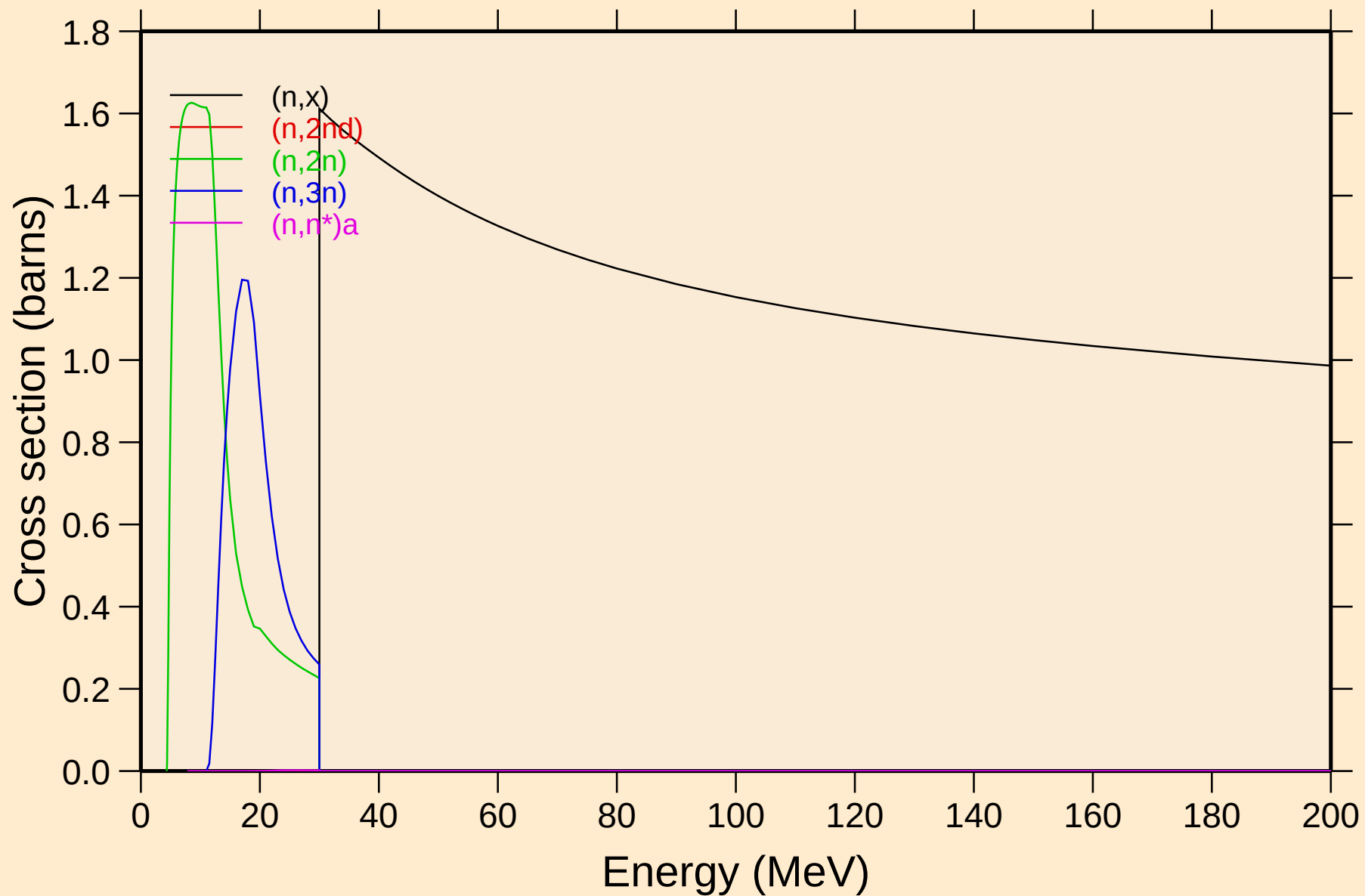
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels





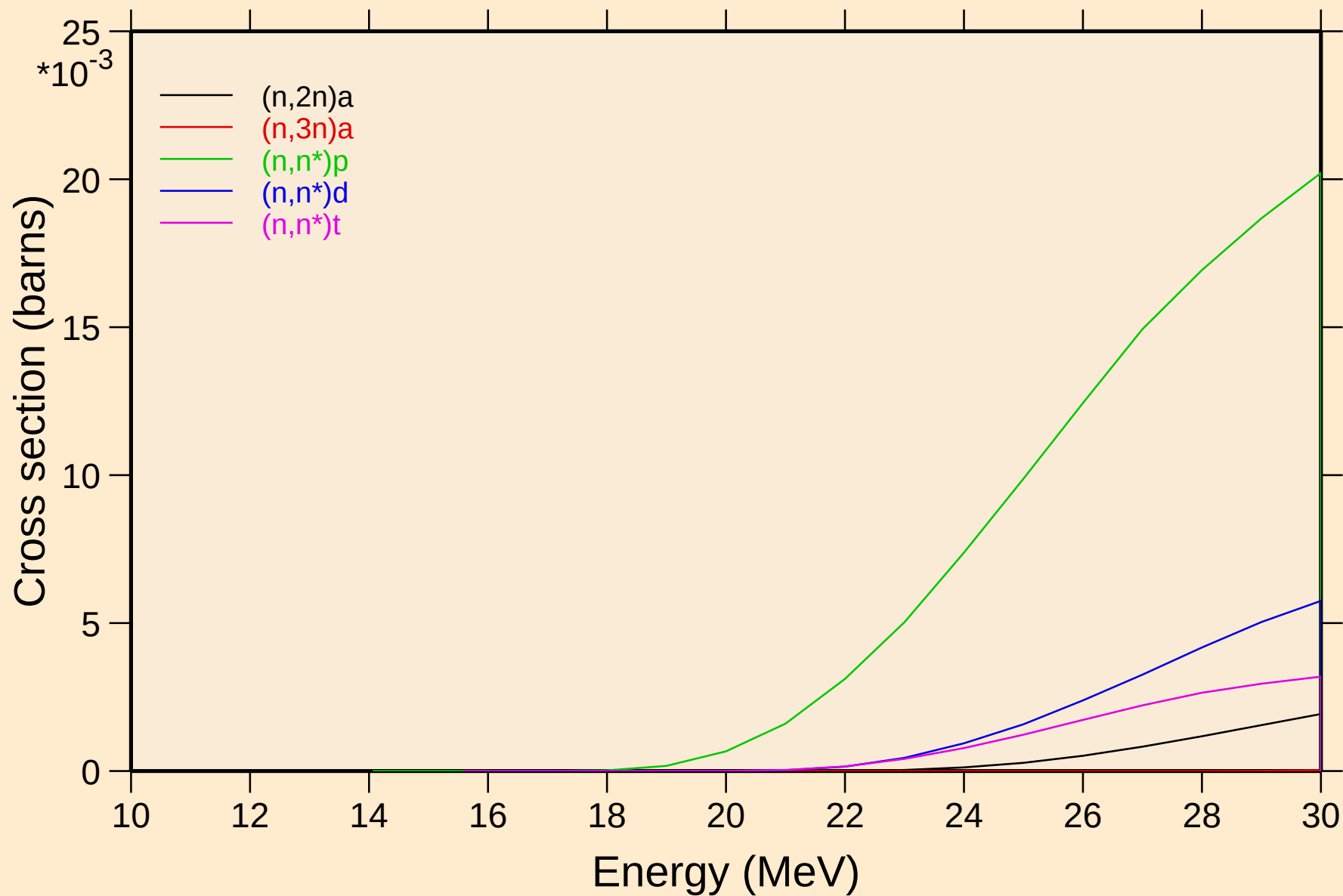
# ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

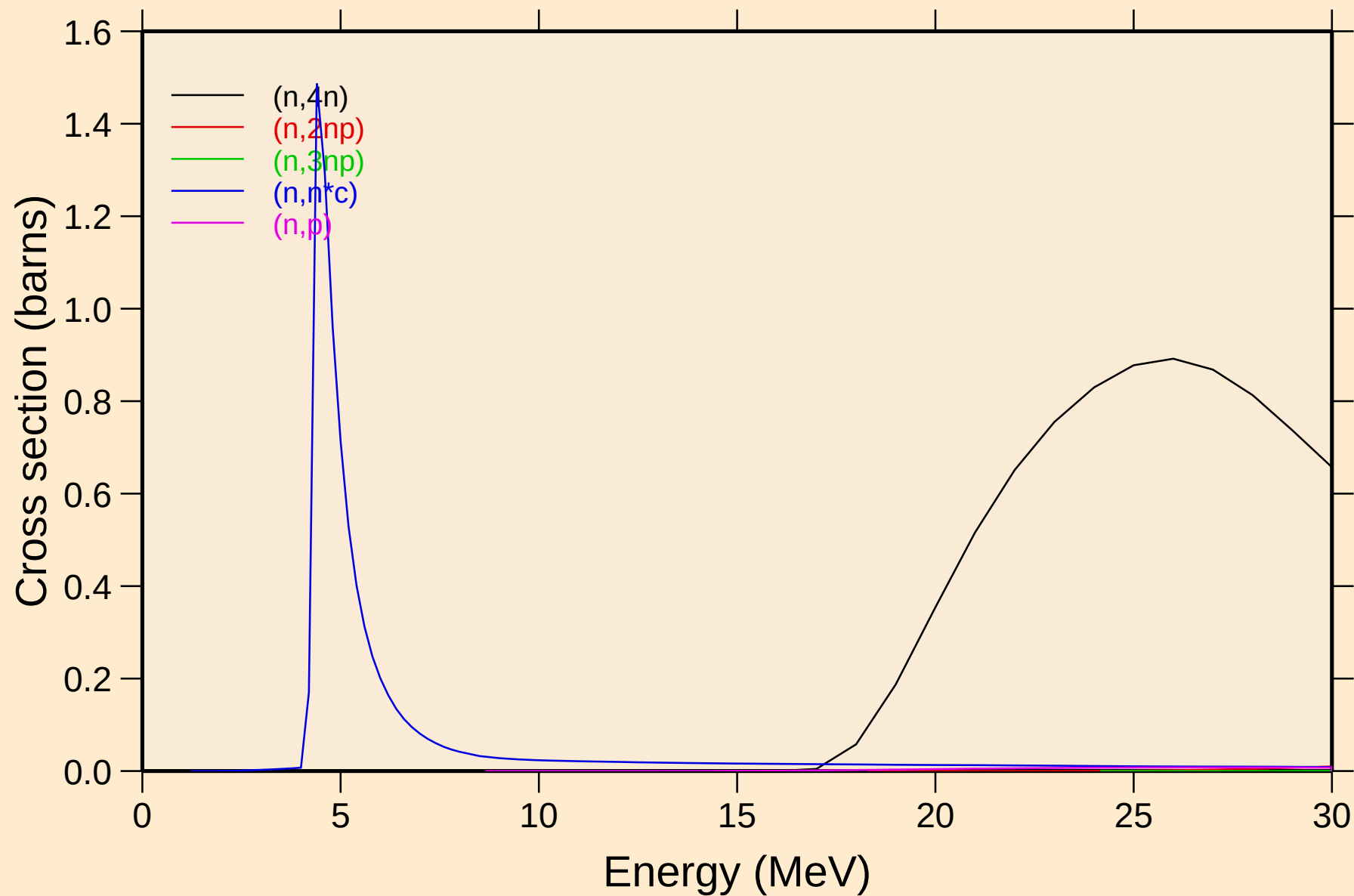


# ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

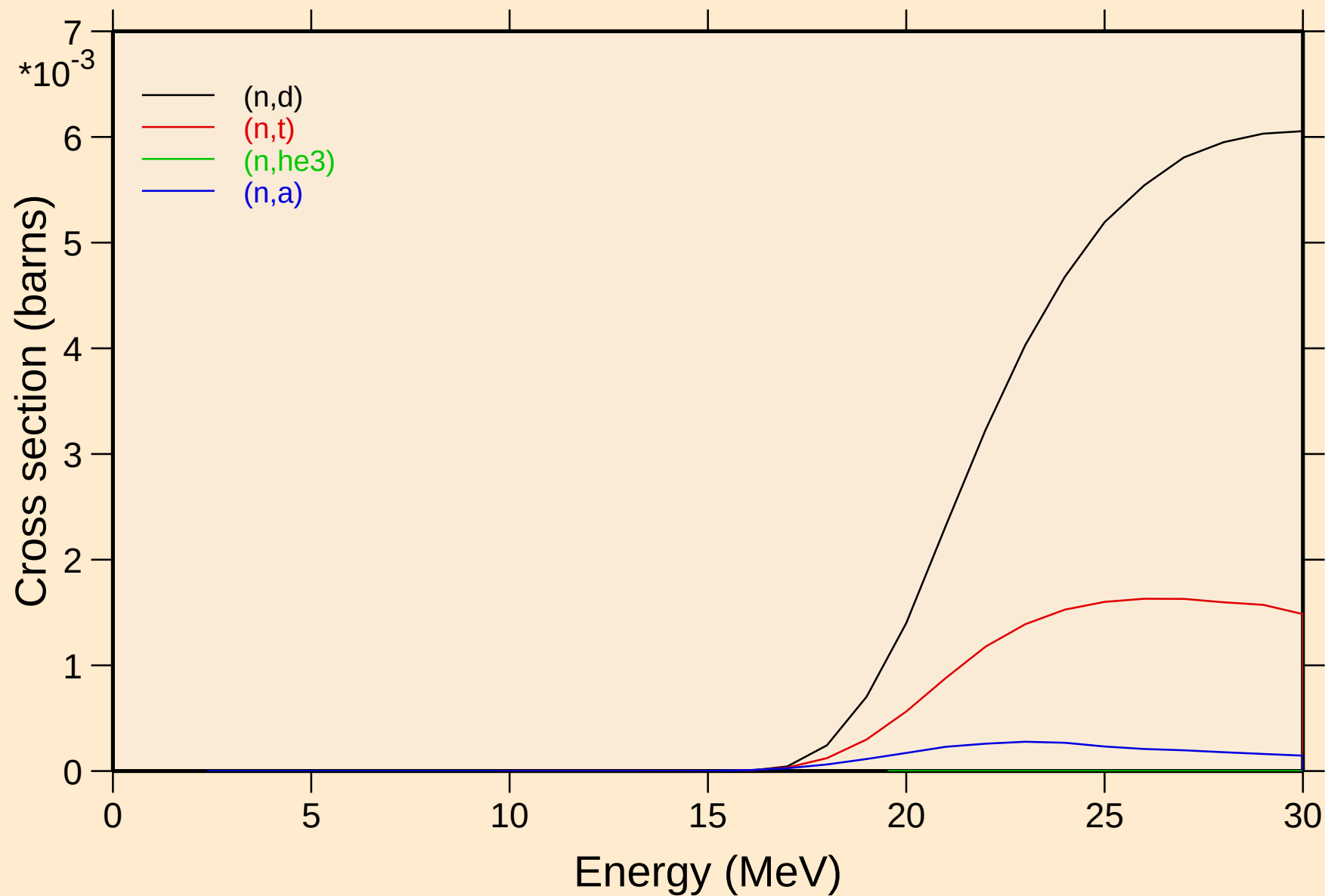
## Threshold reactions



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

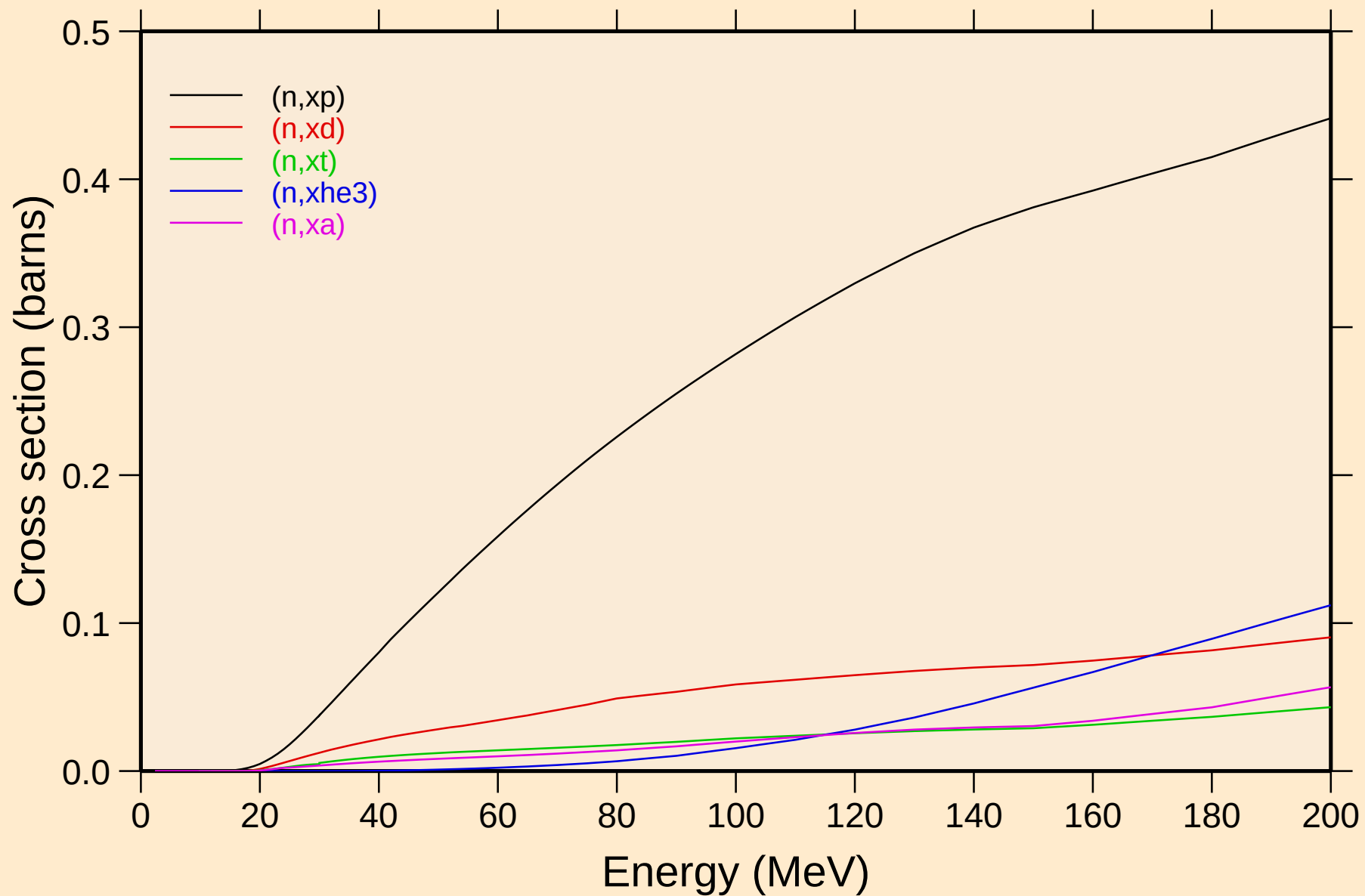


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

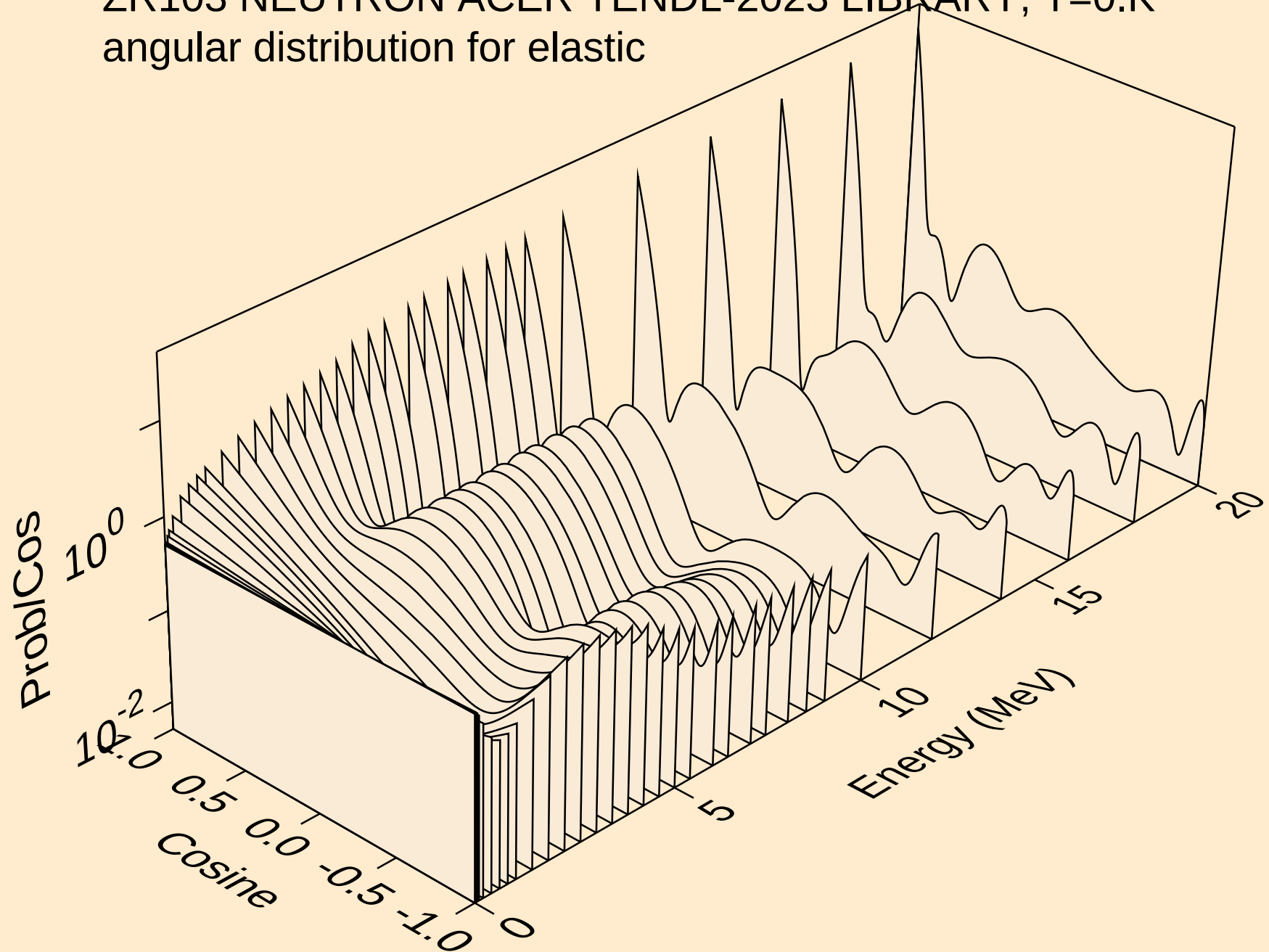


# ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

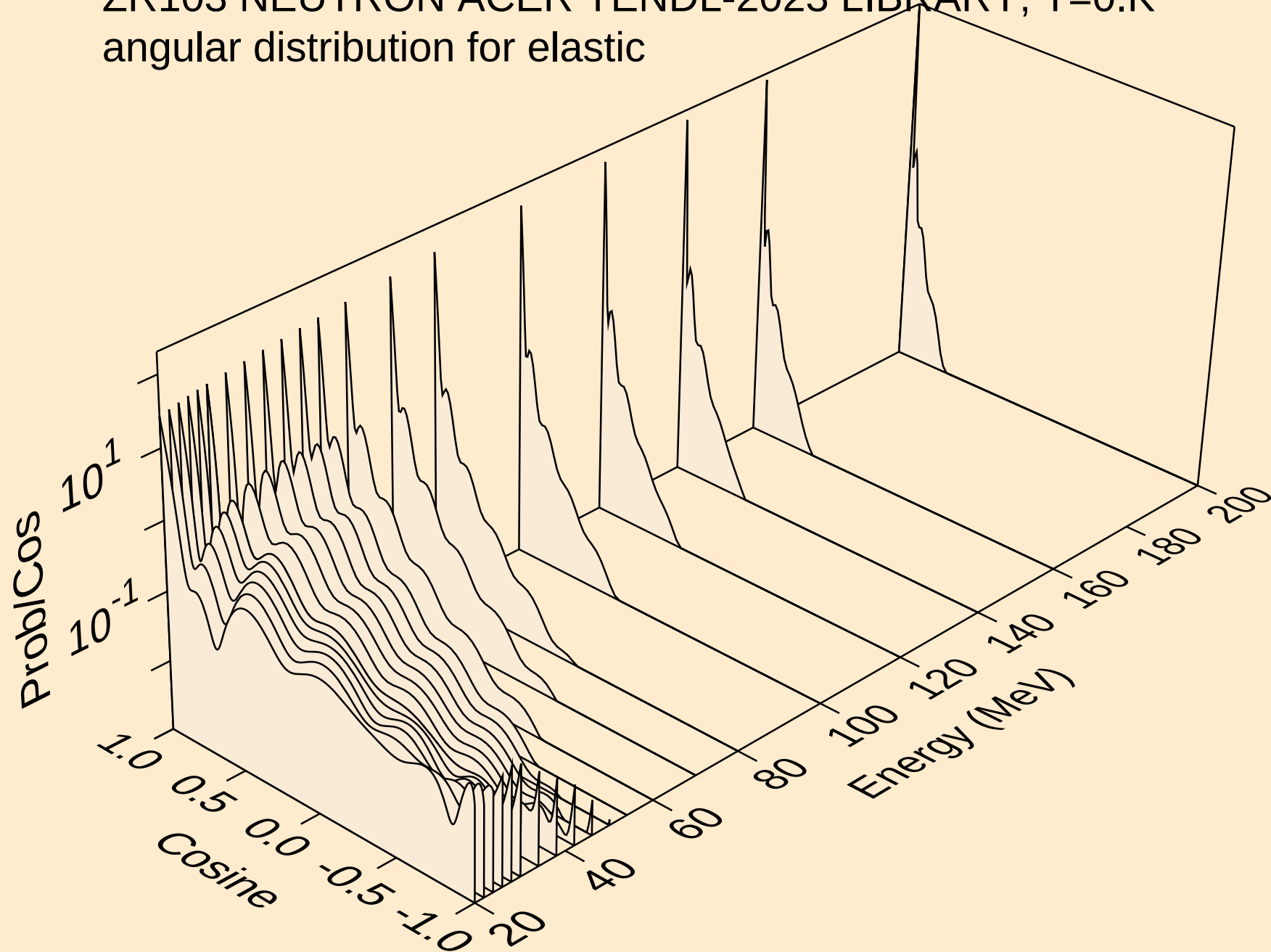
## Threshold reactions



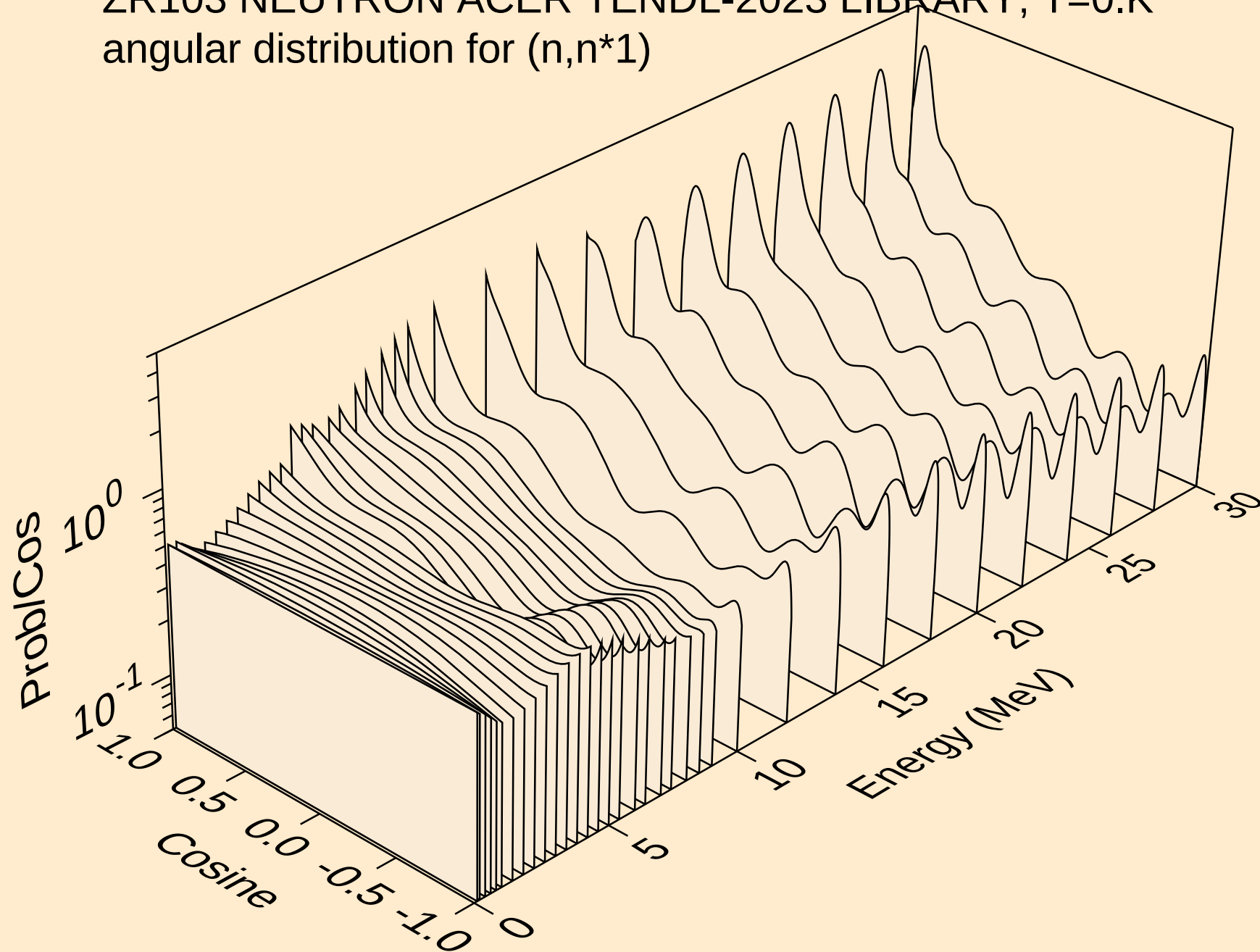
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

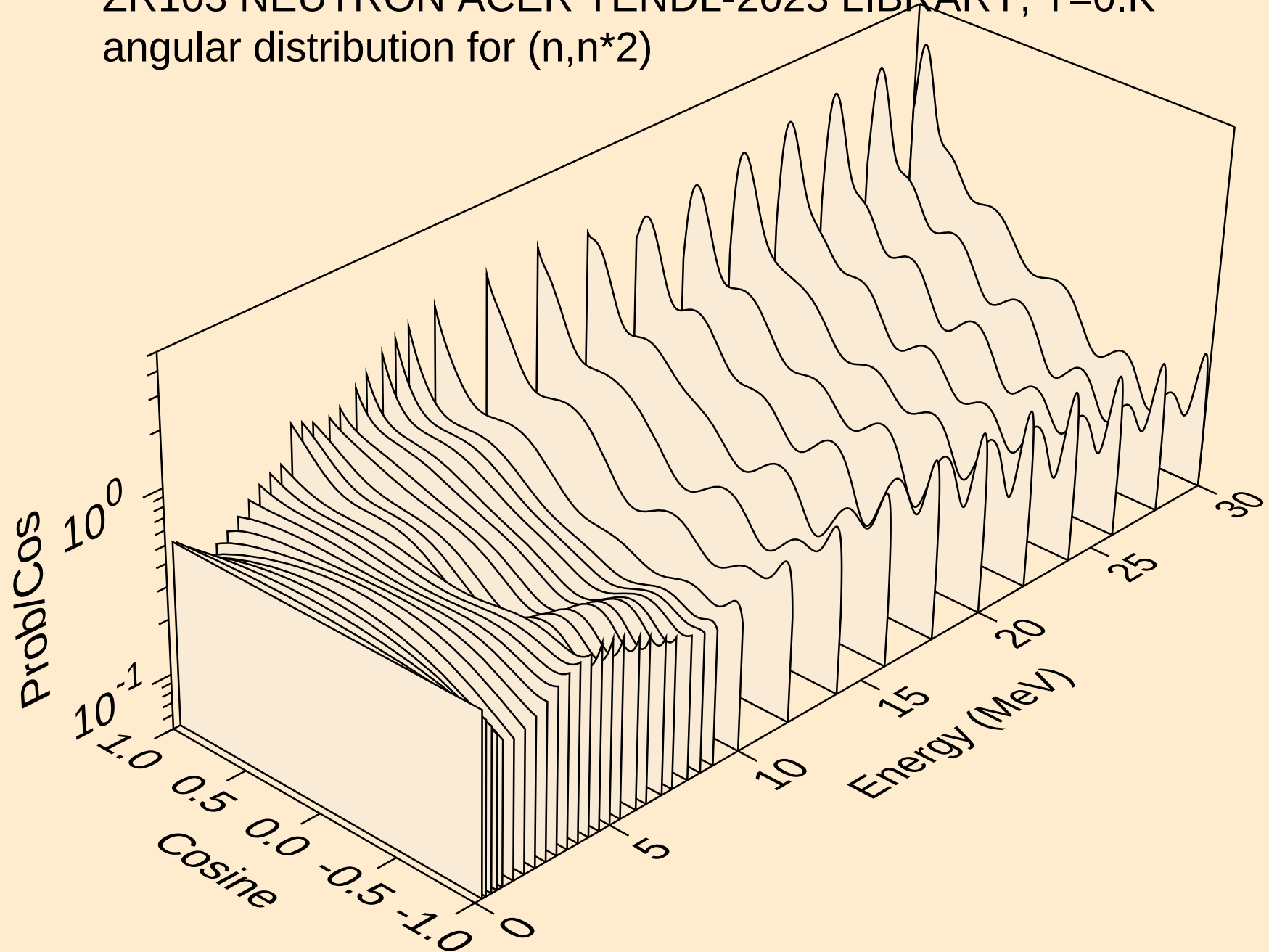


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)

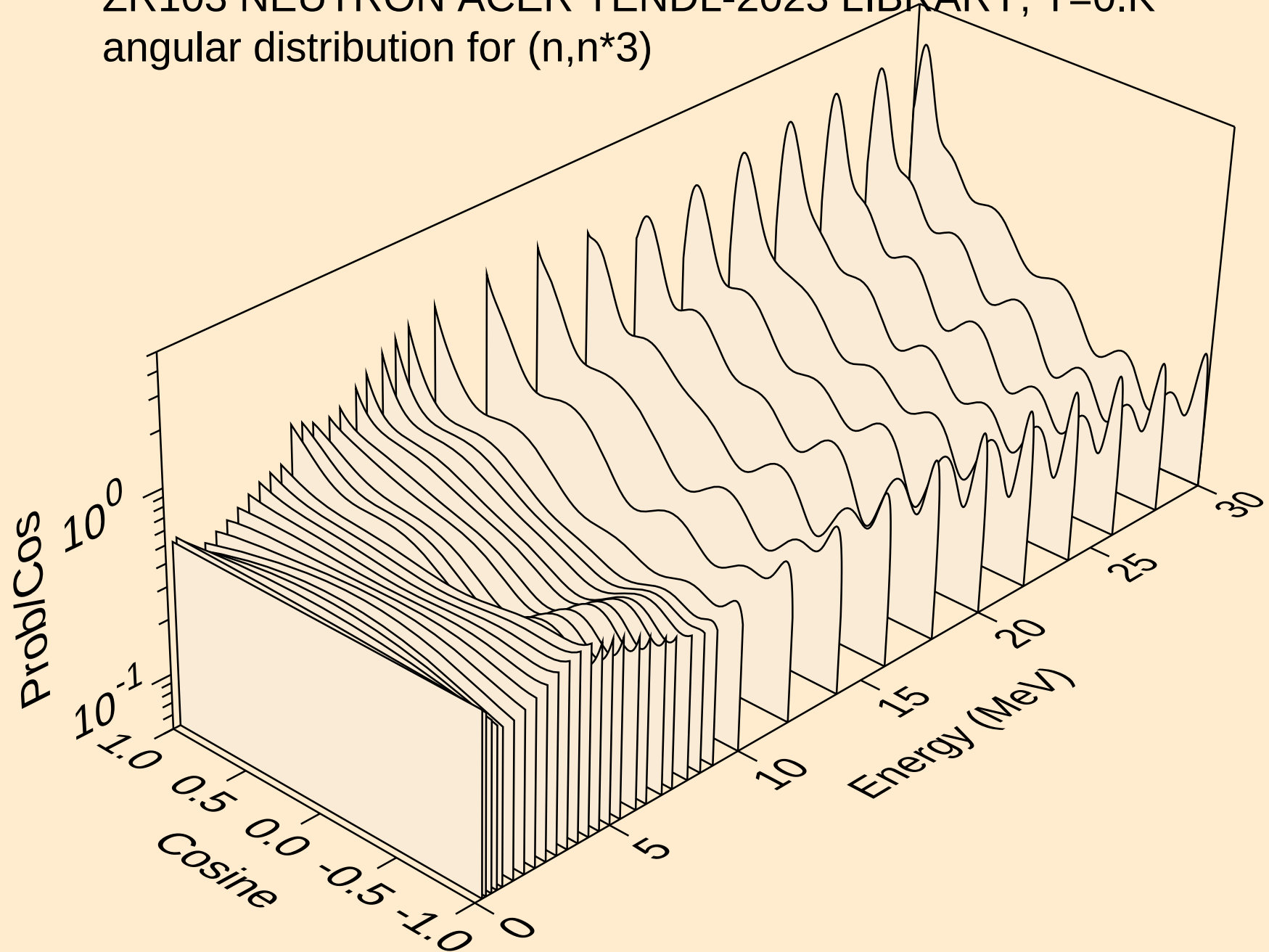




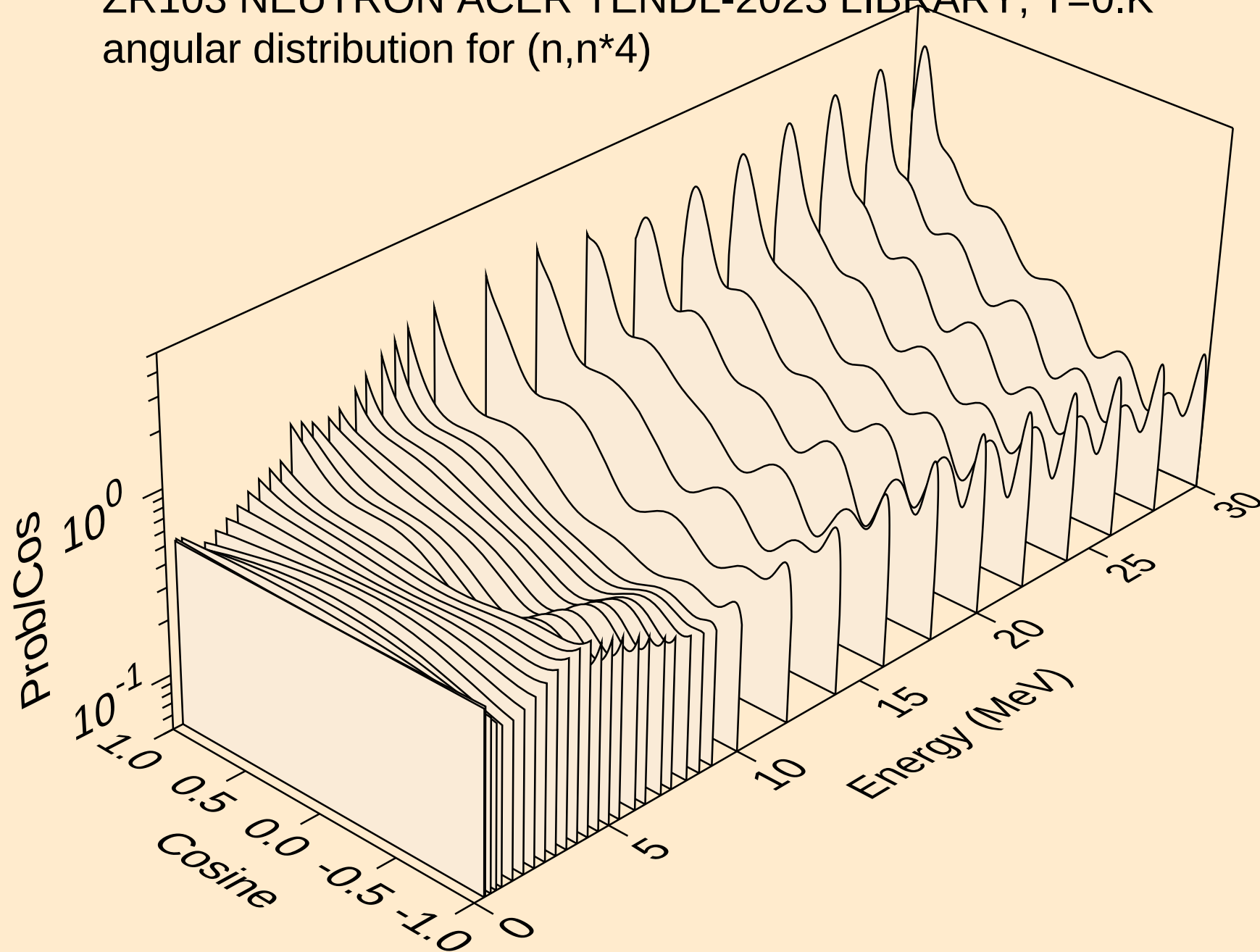
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



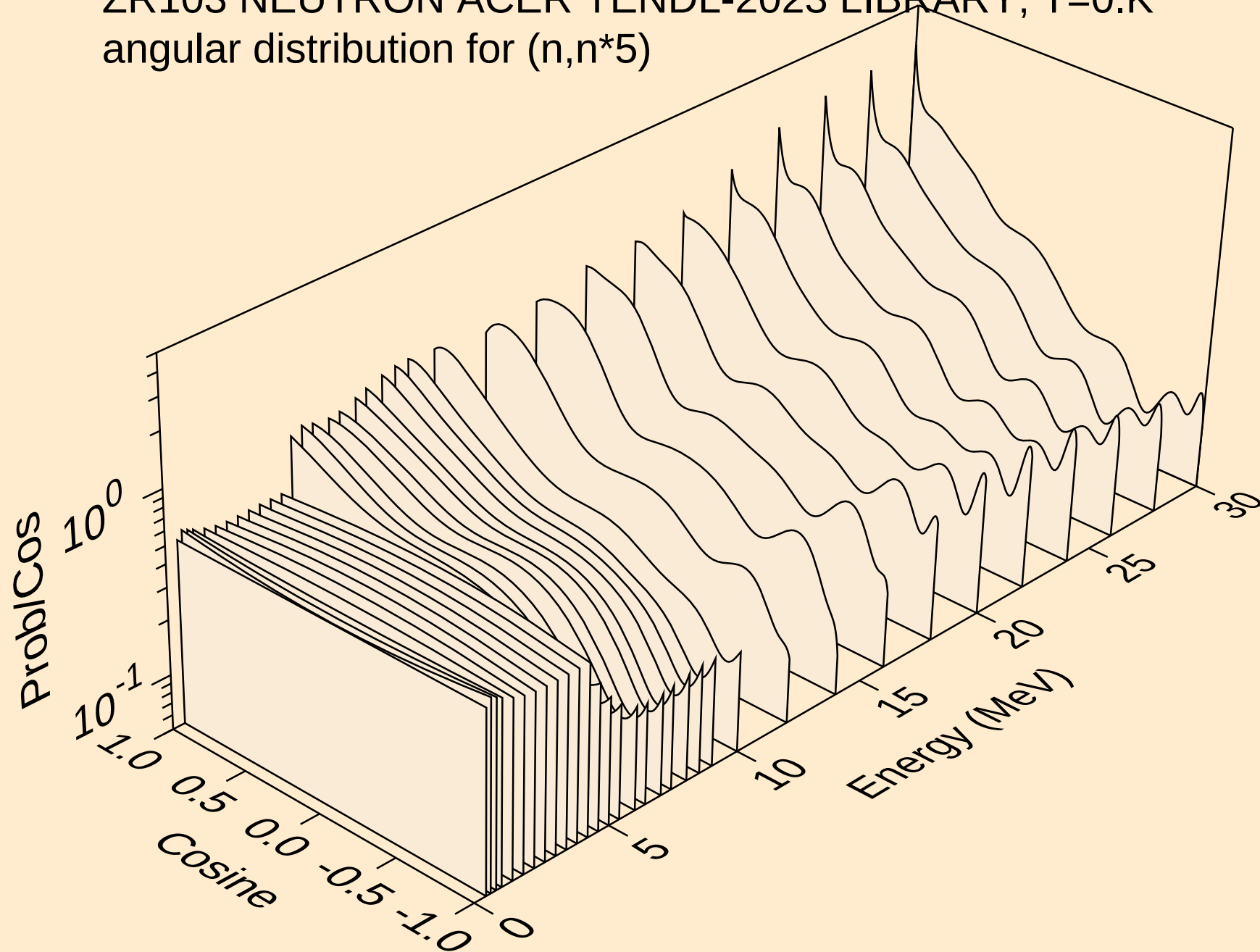
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



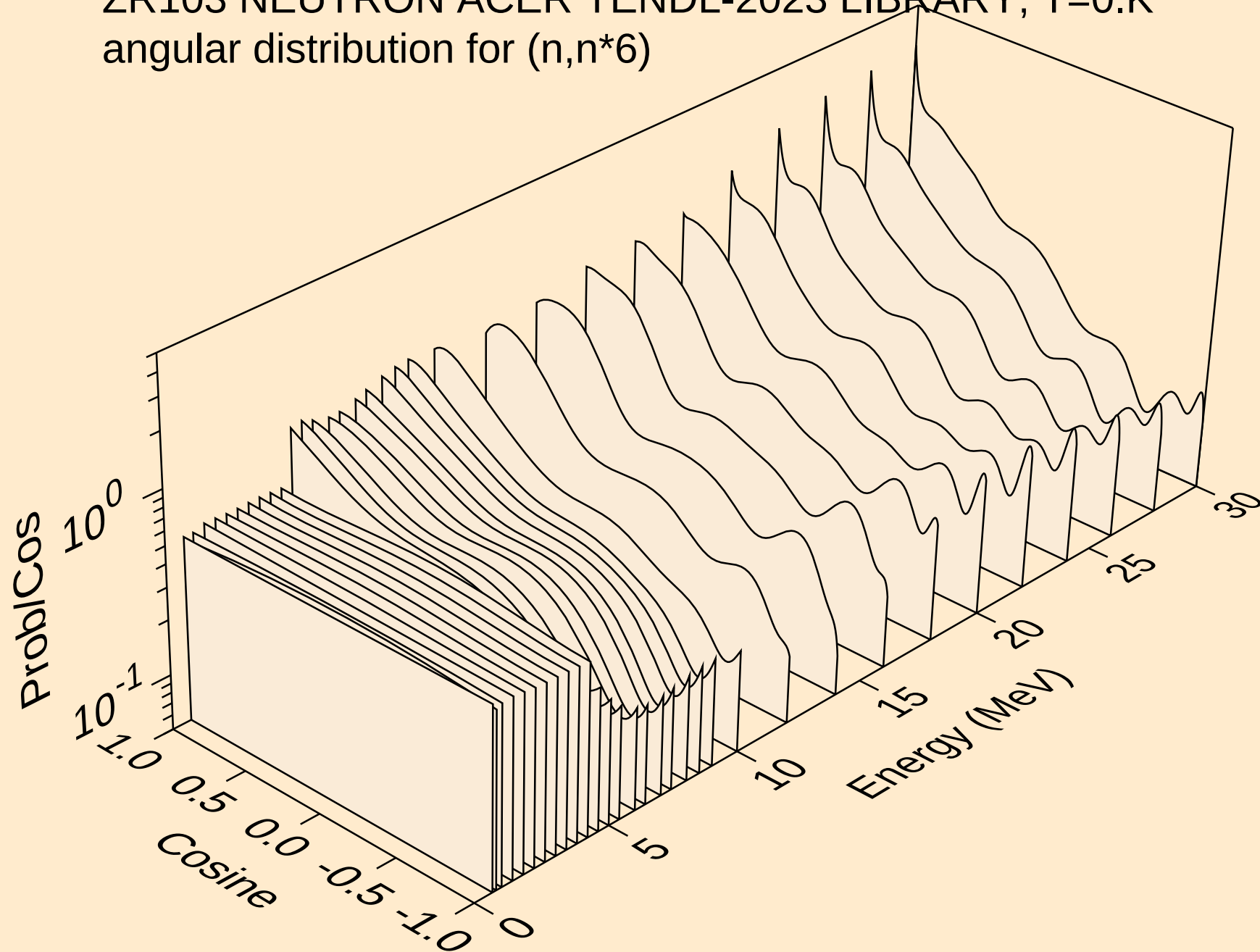
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



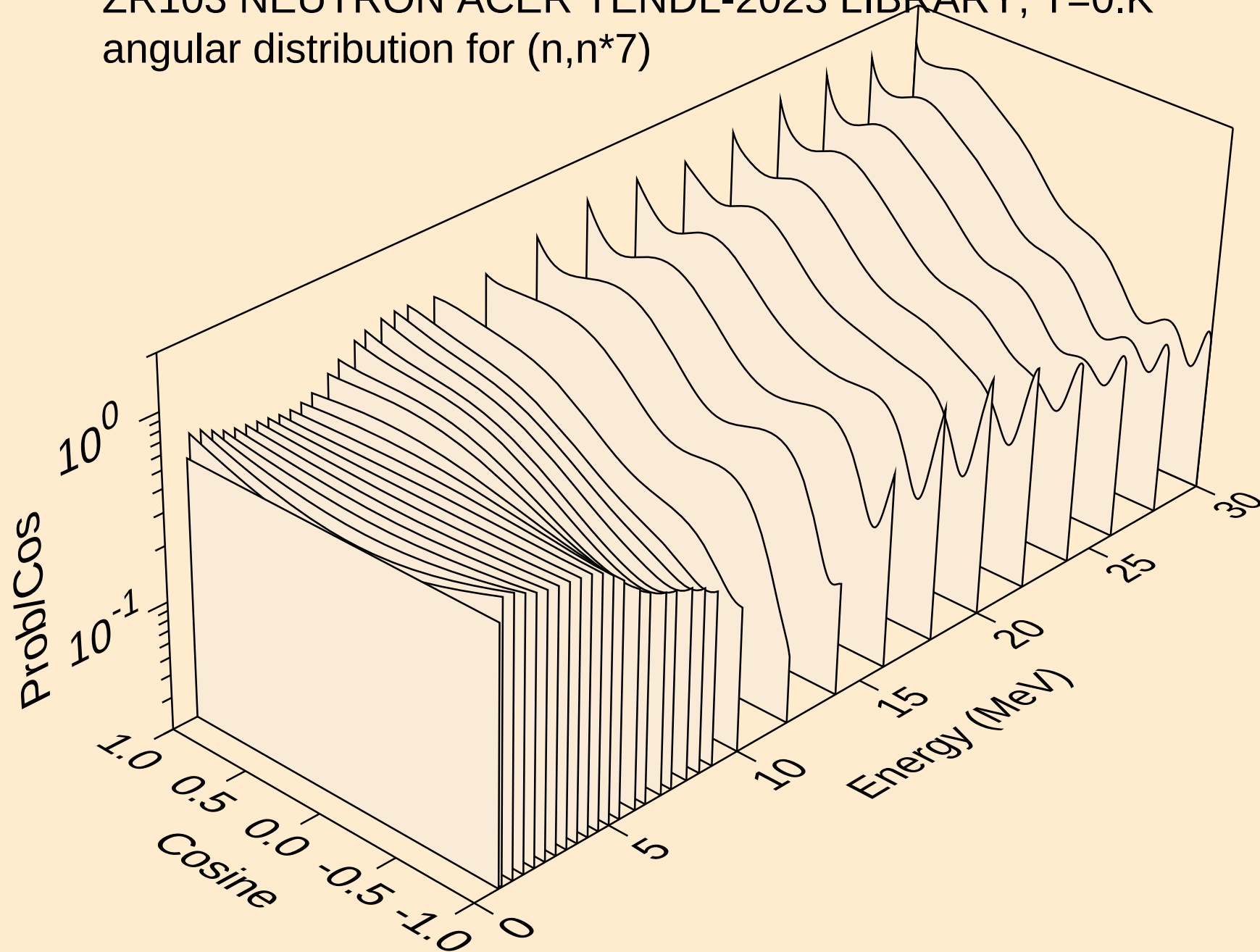
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



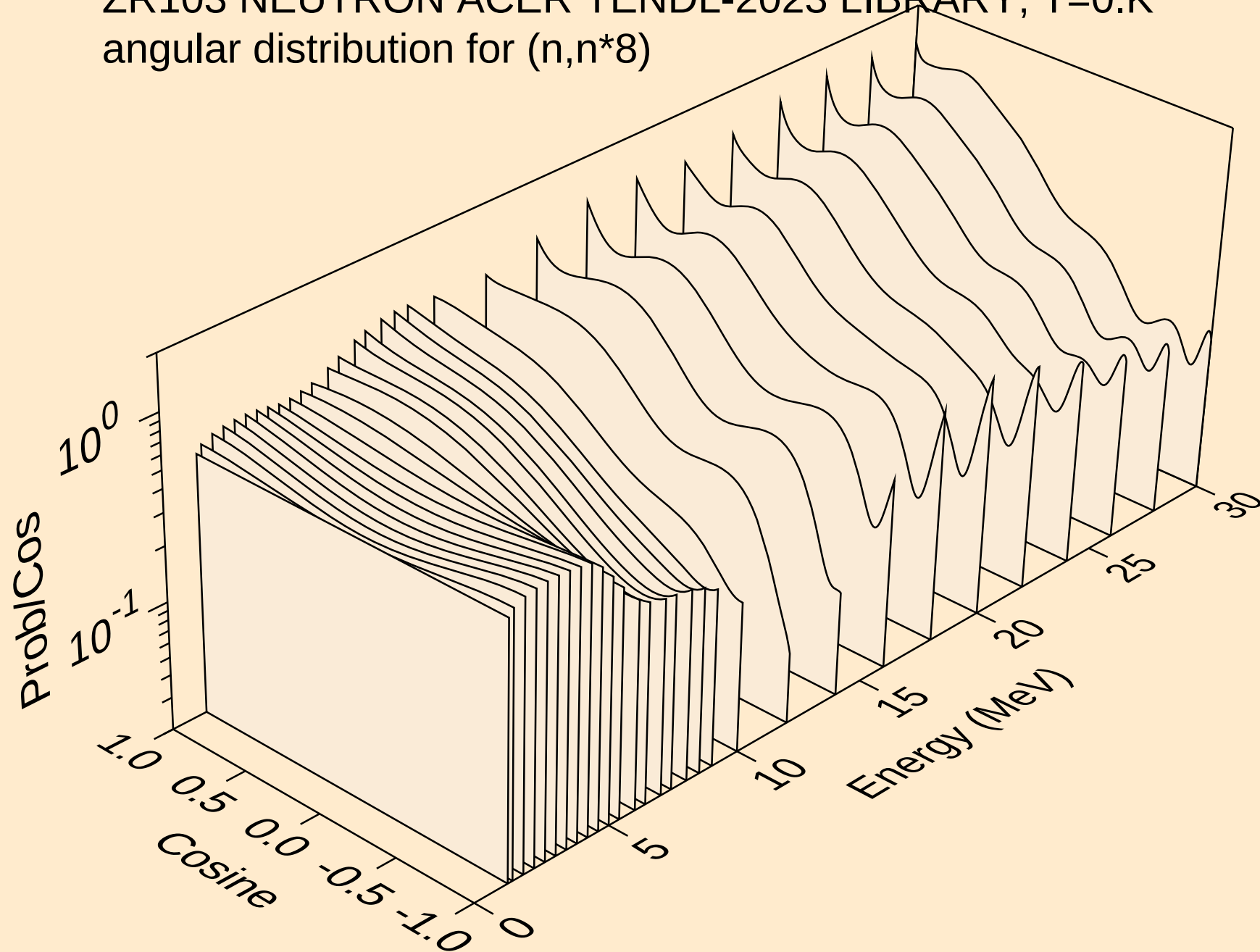
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



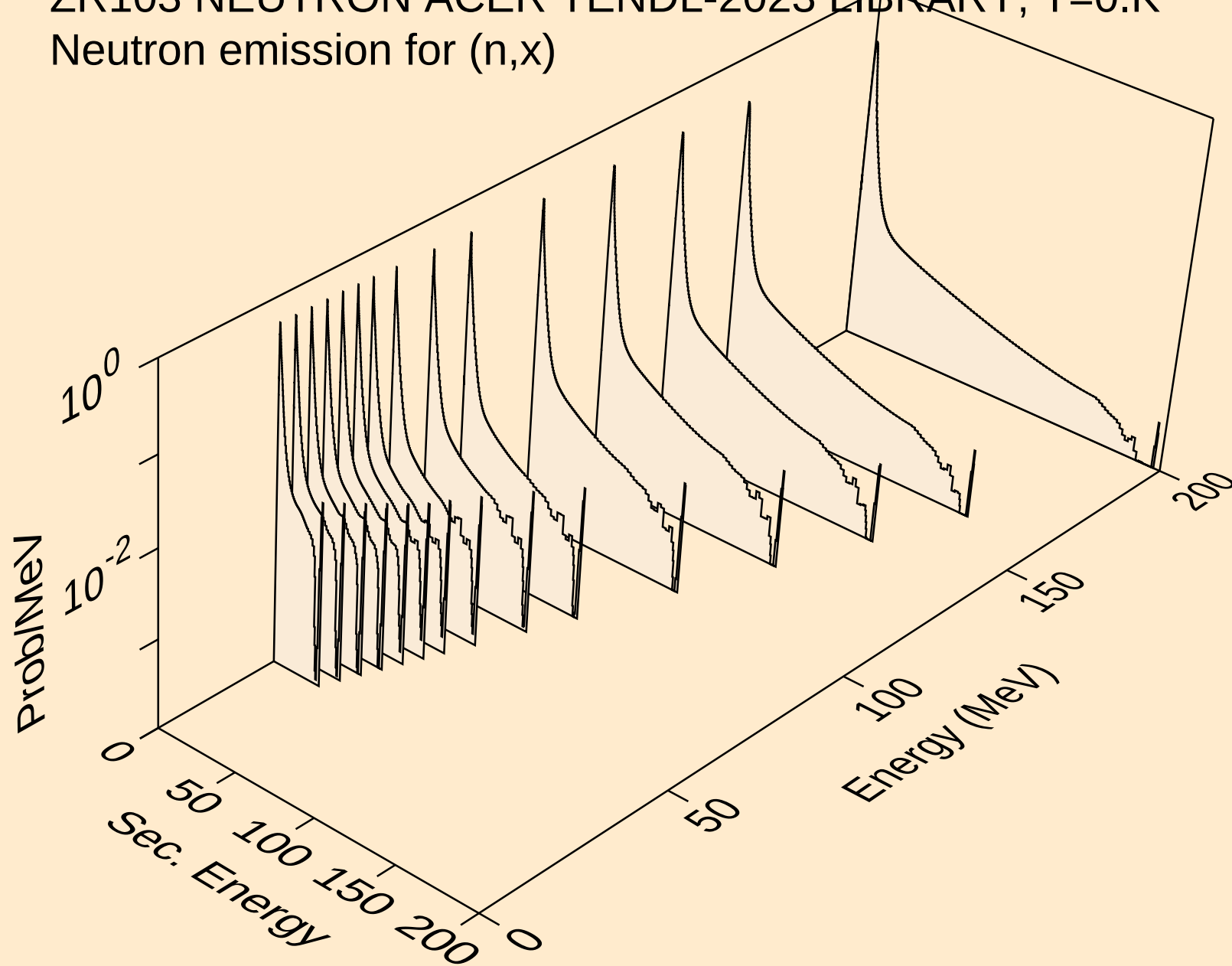
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)

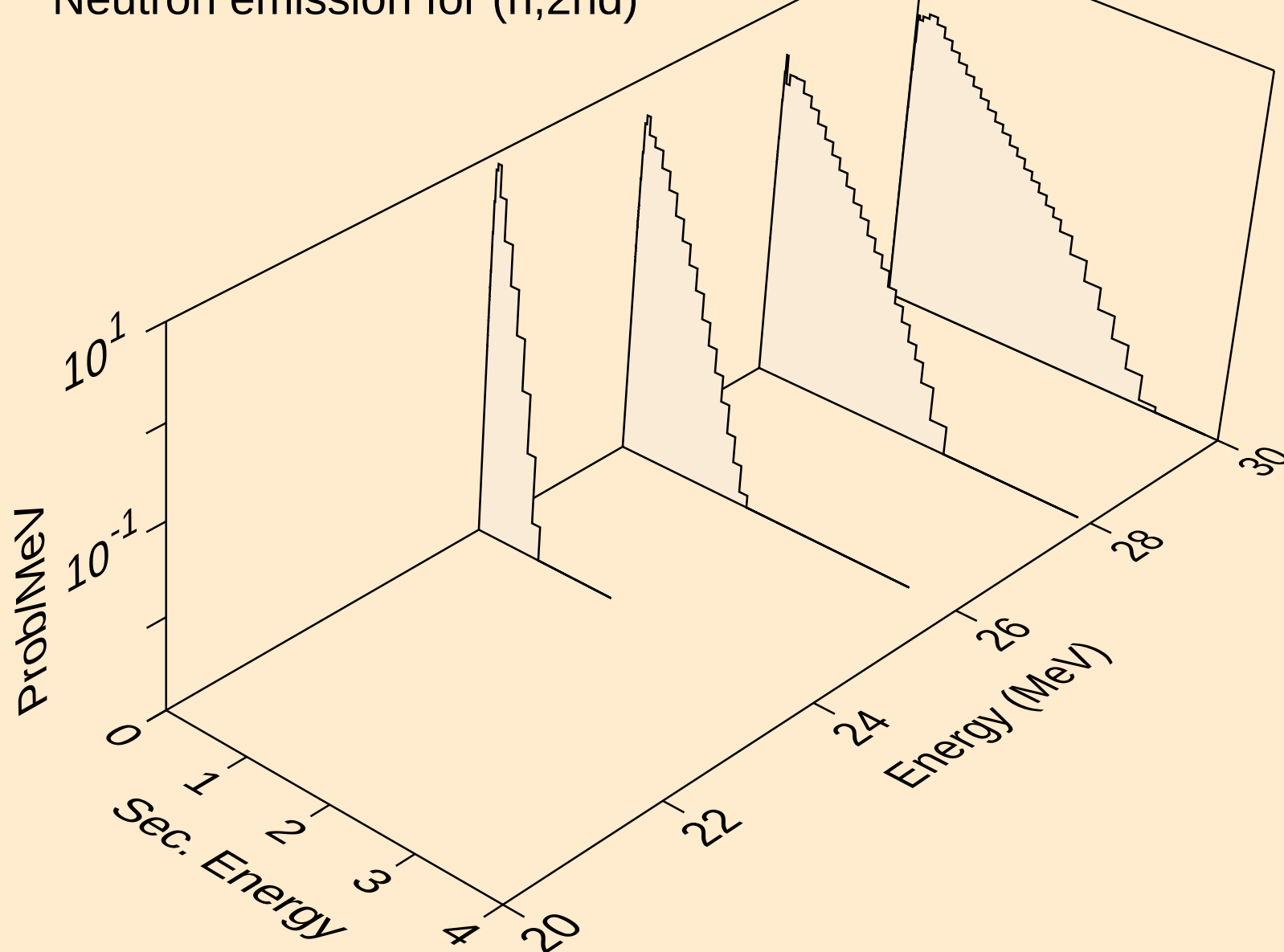


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)

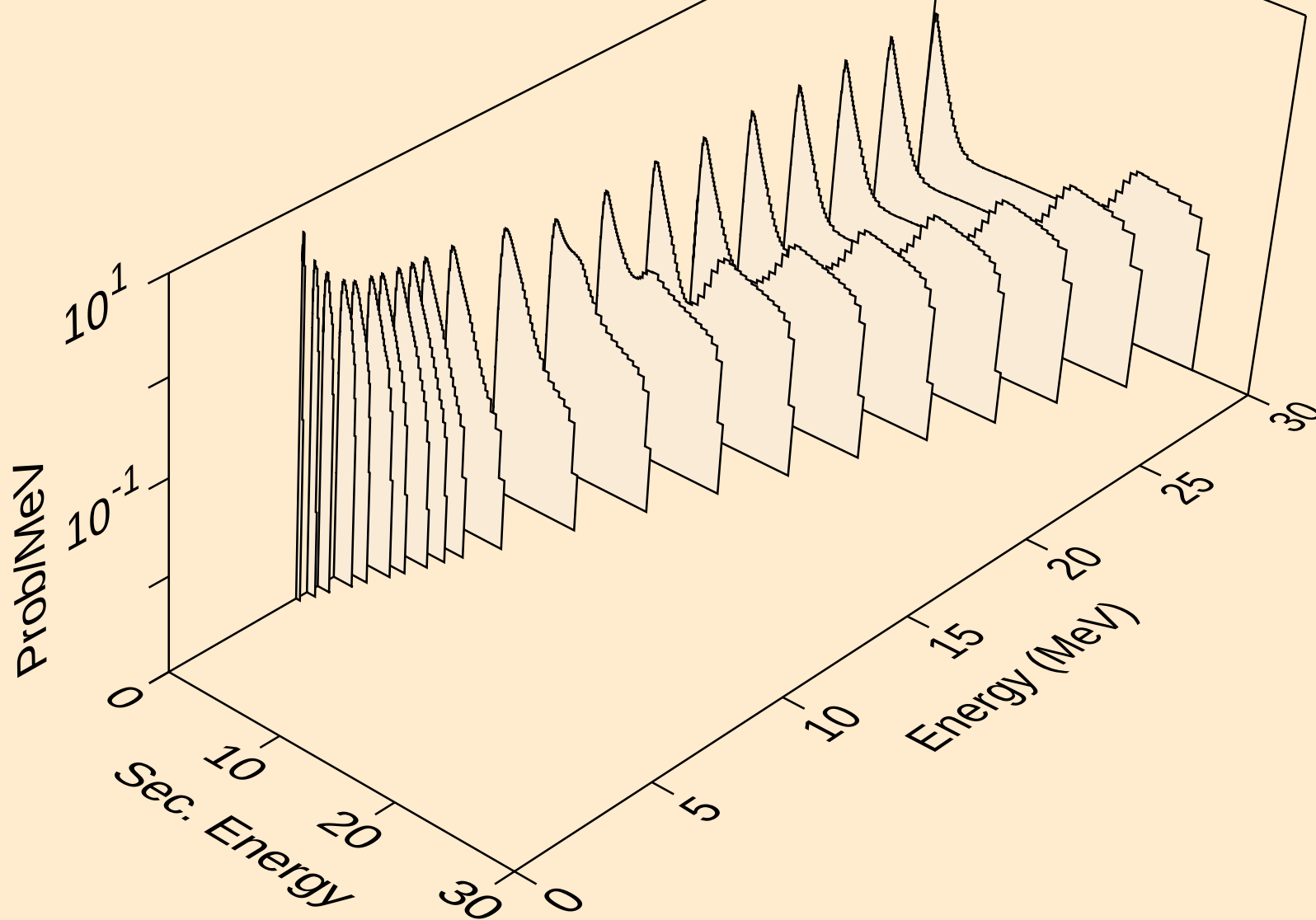




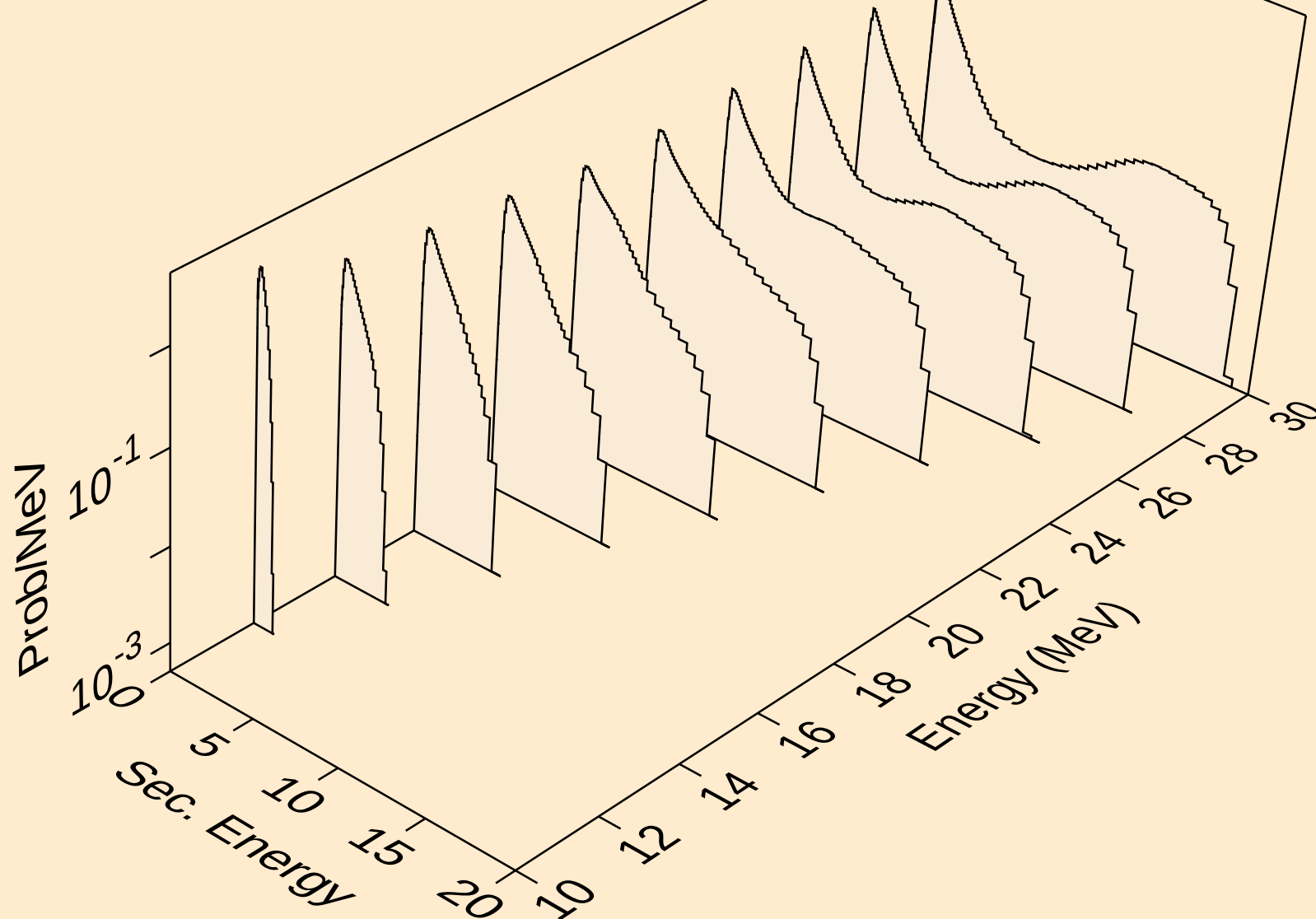
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



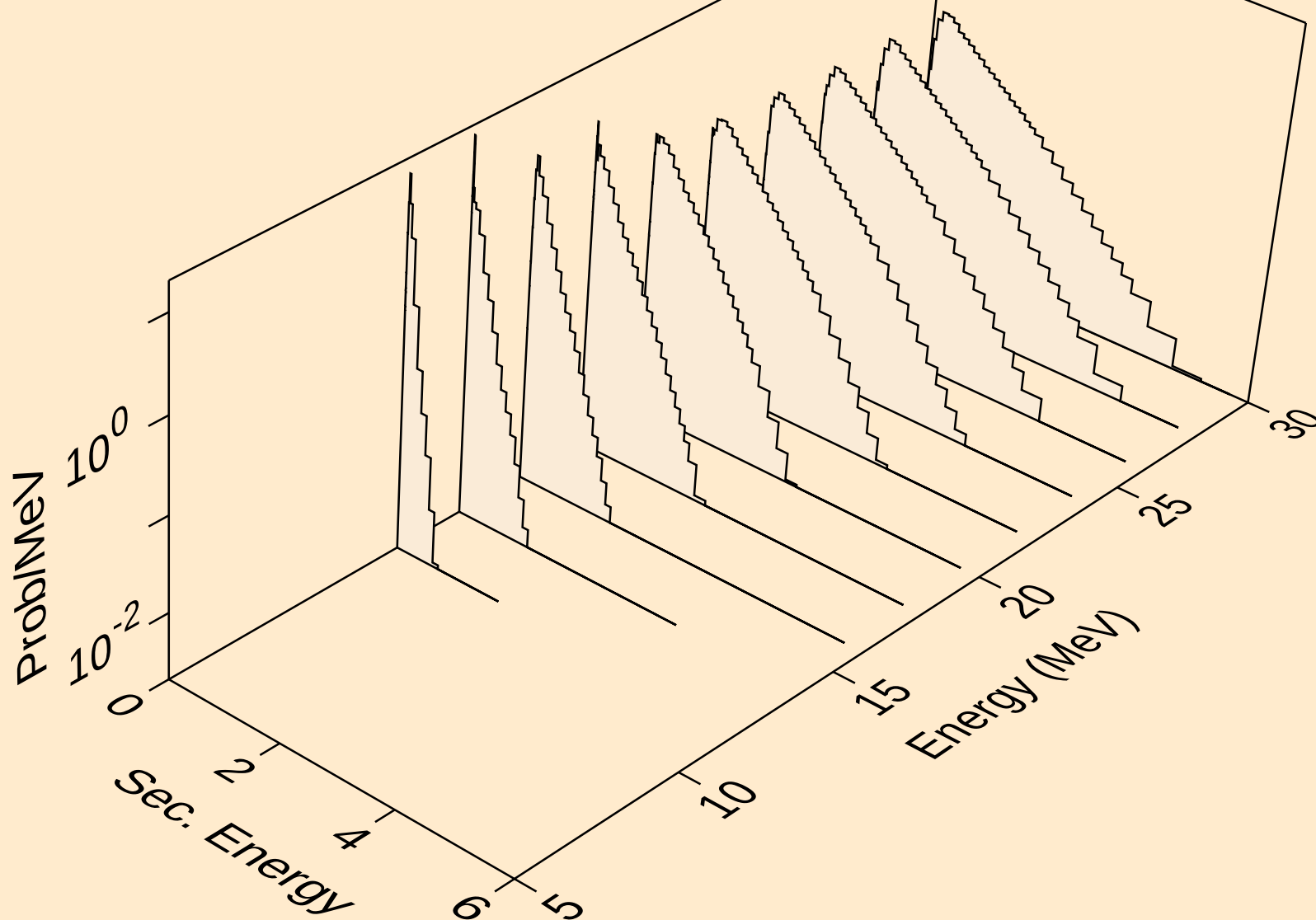
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



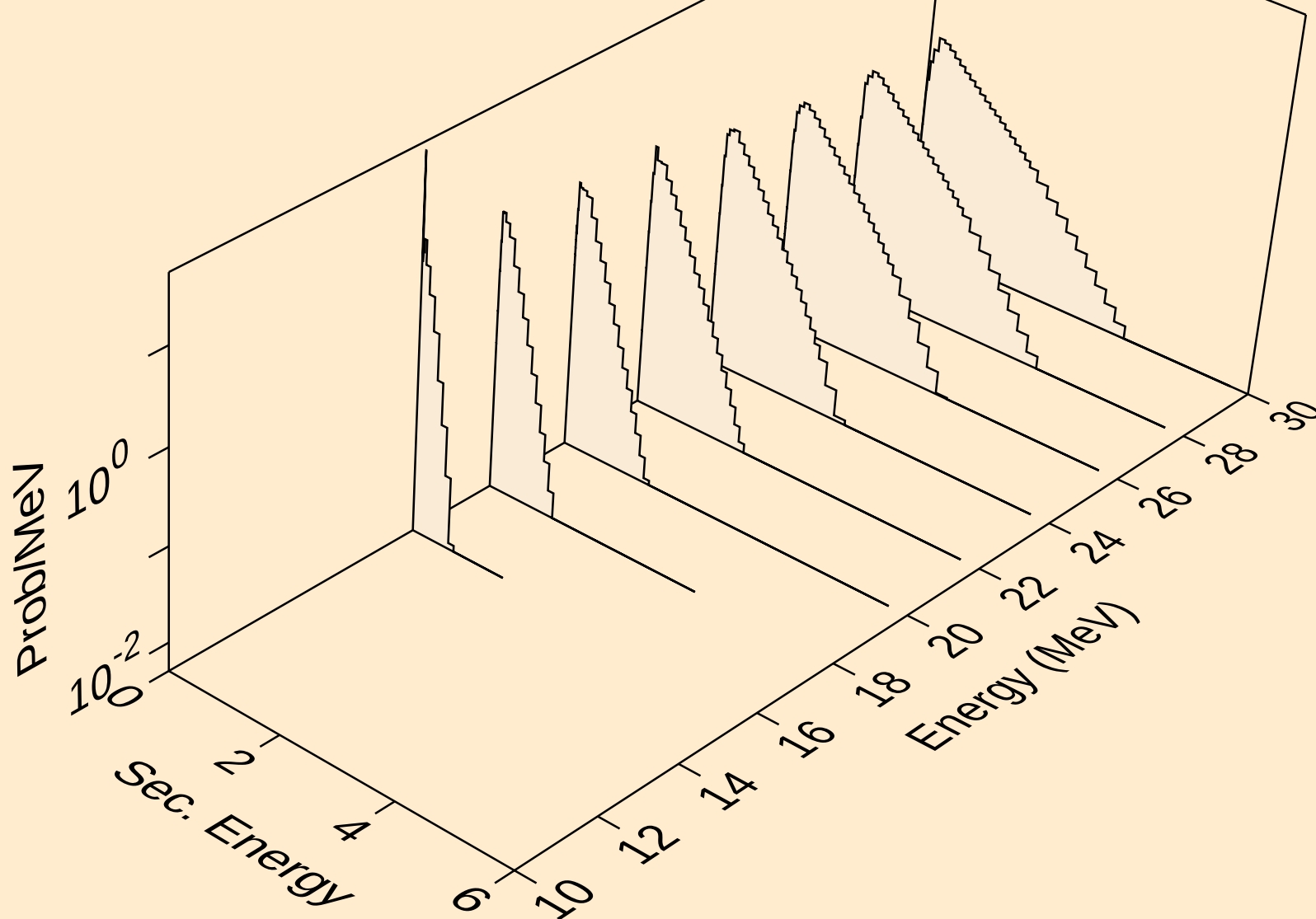
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



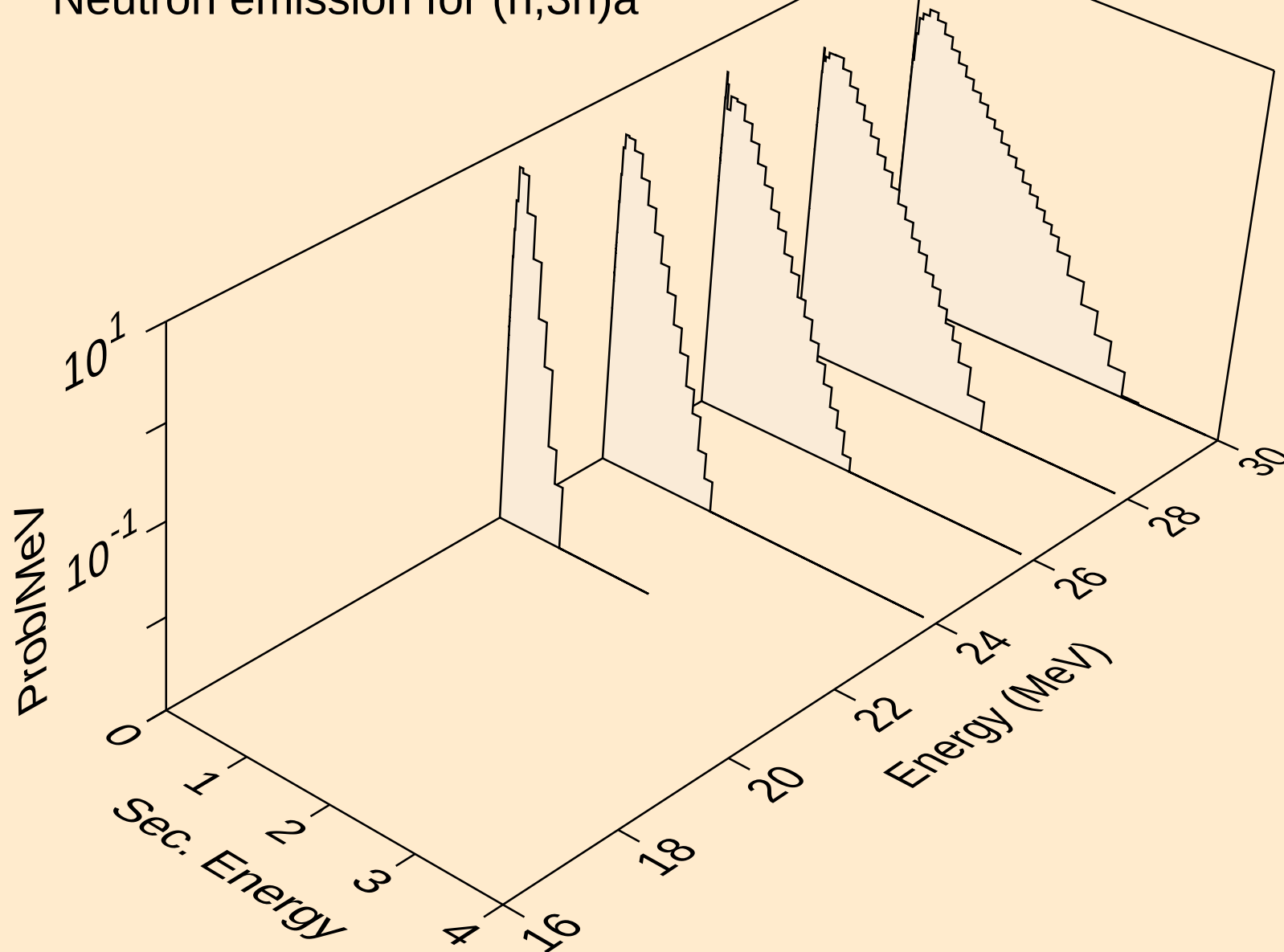
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



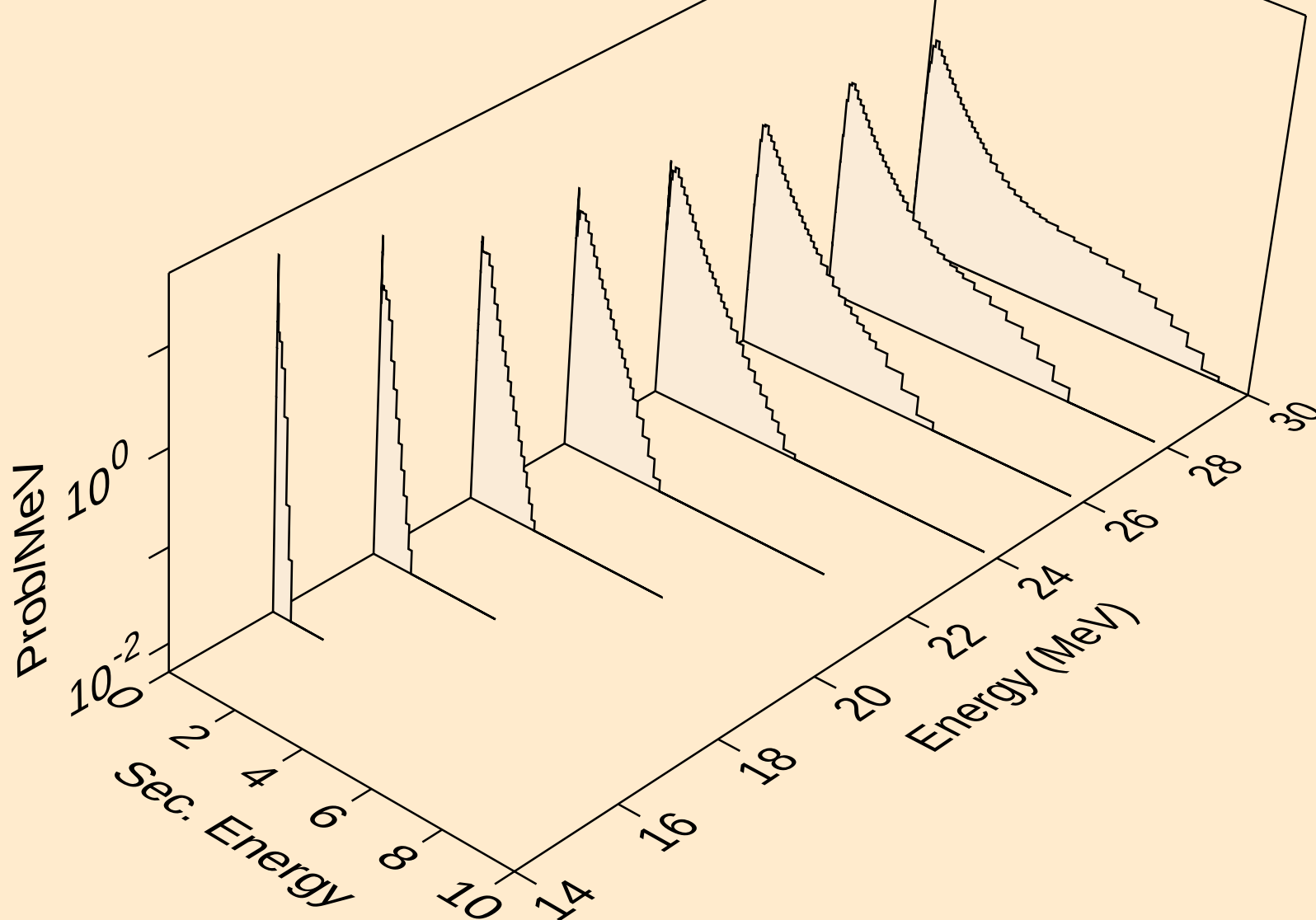
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)<sub>a</sub>



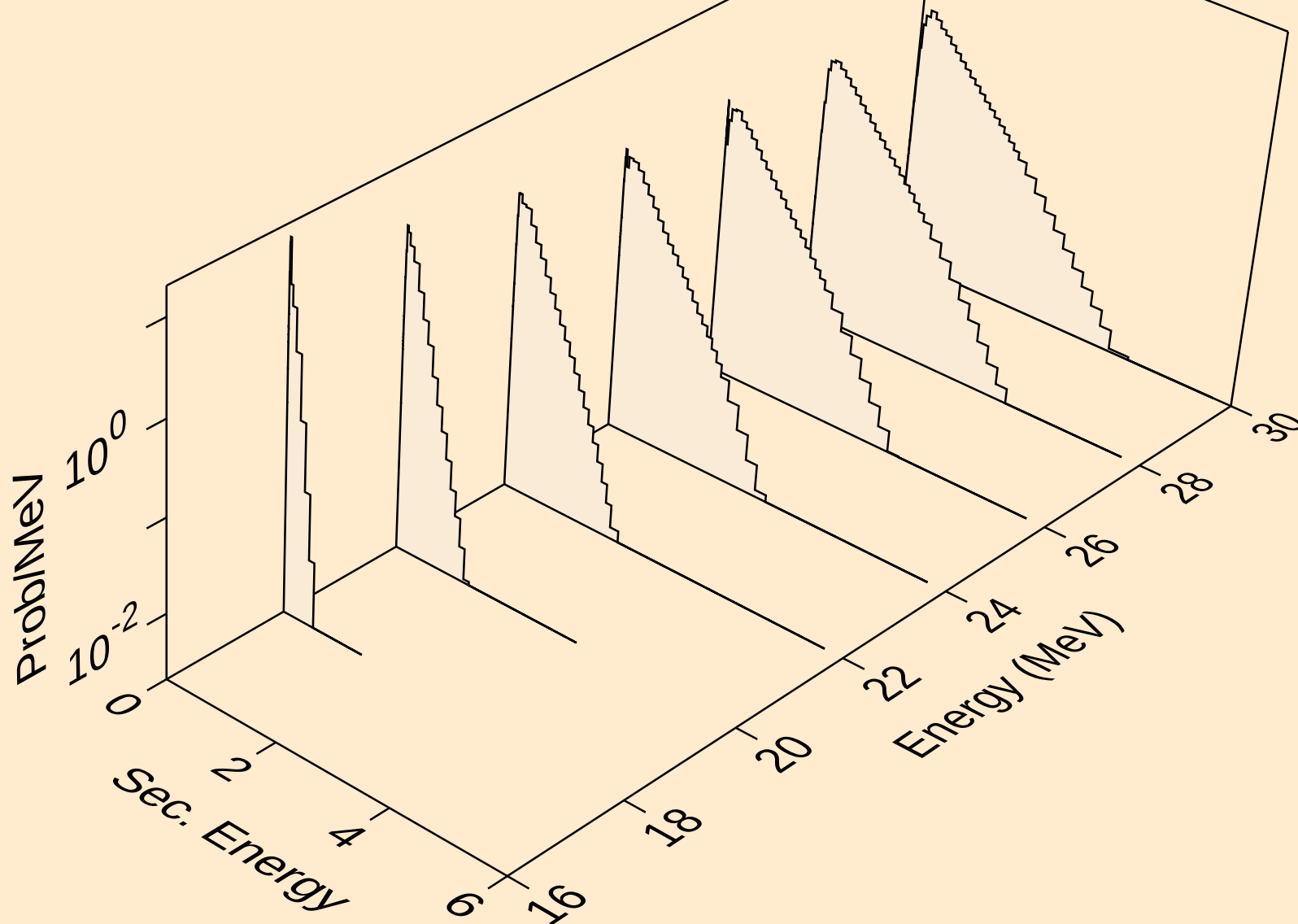
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p

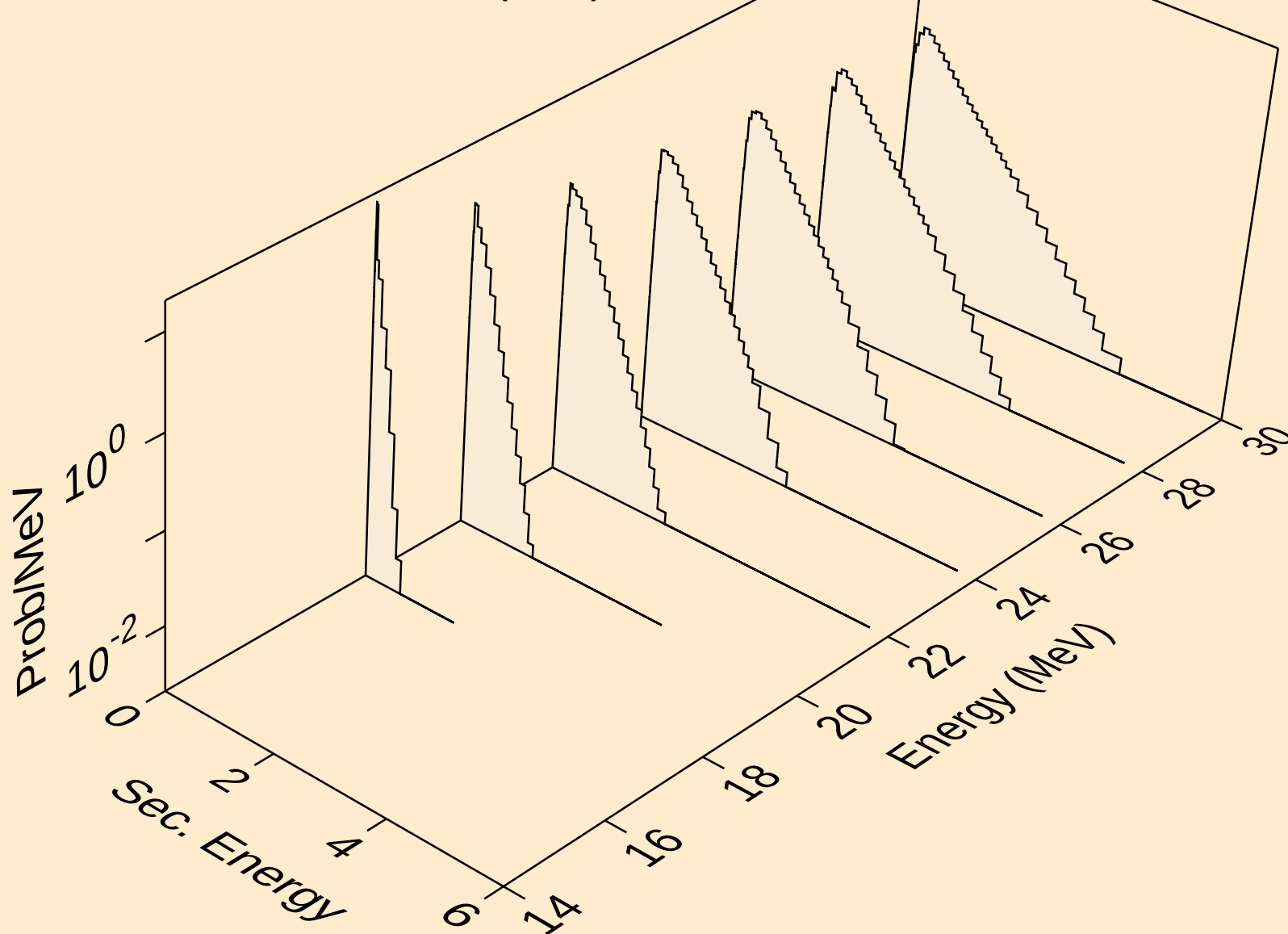


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

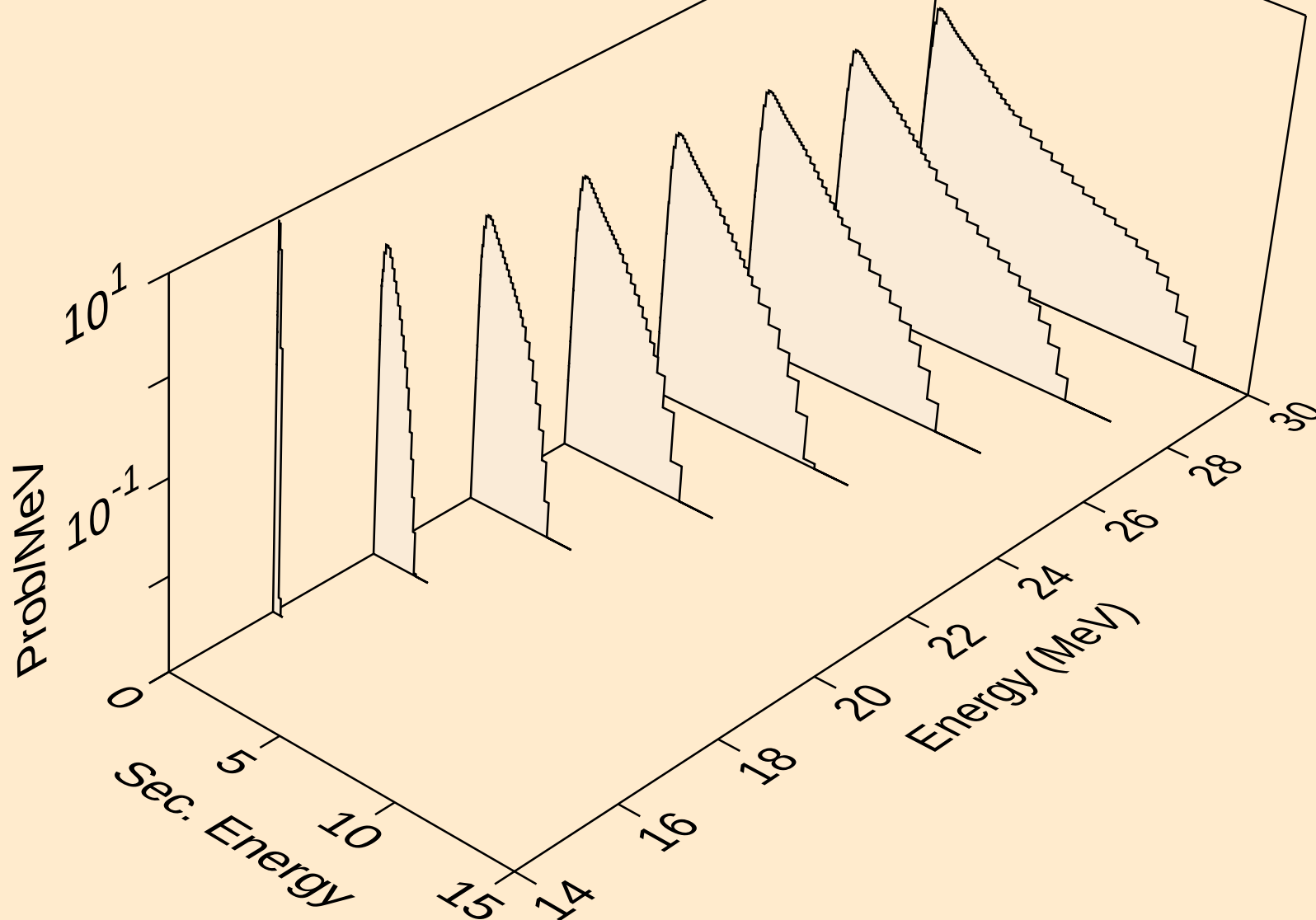




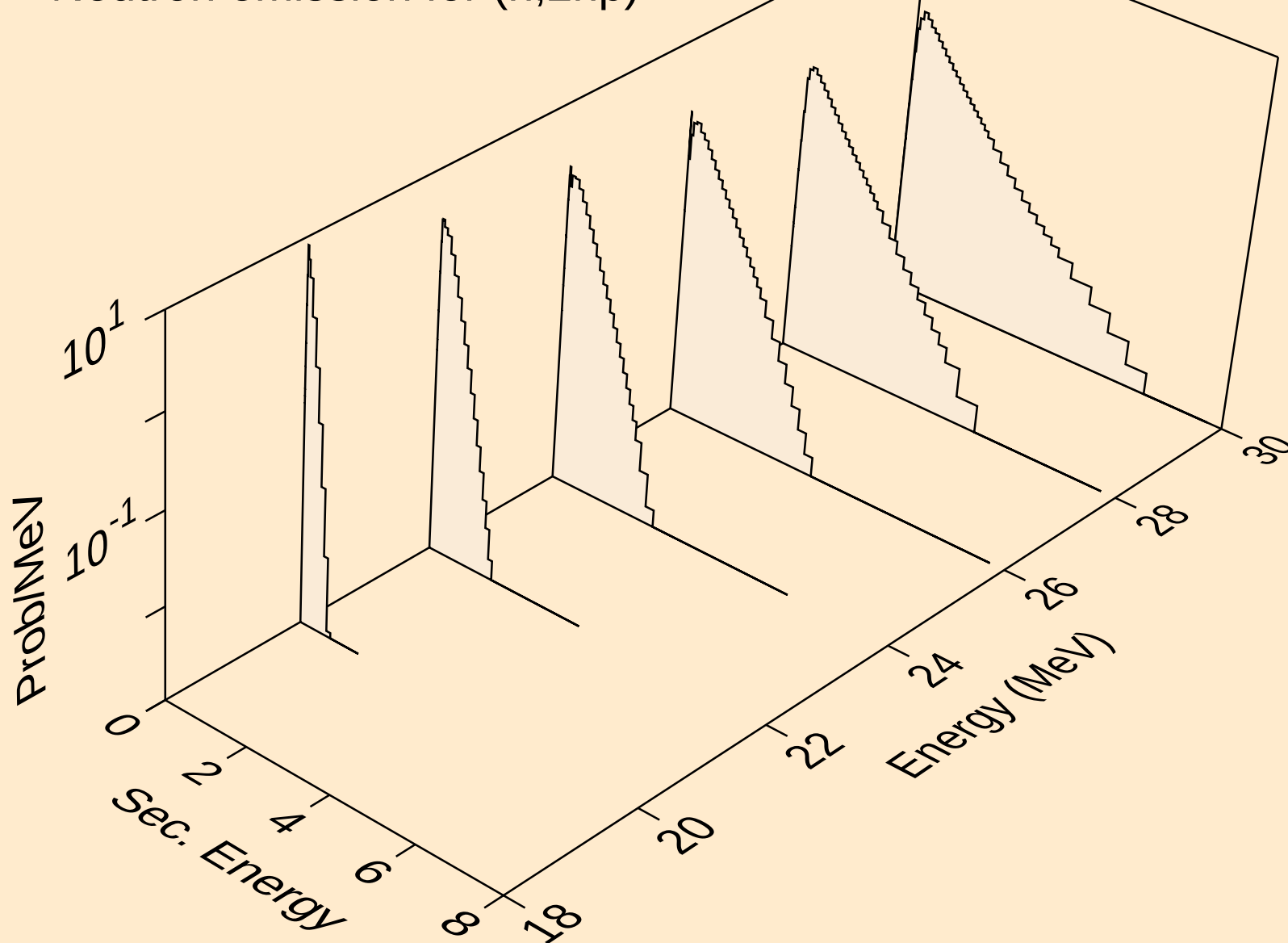
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



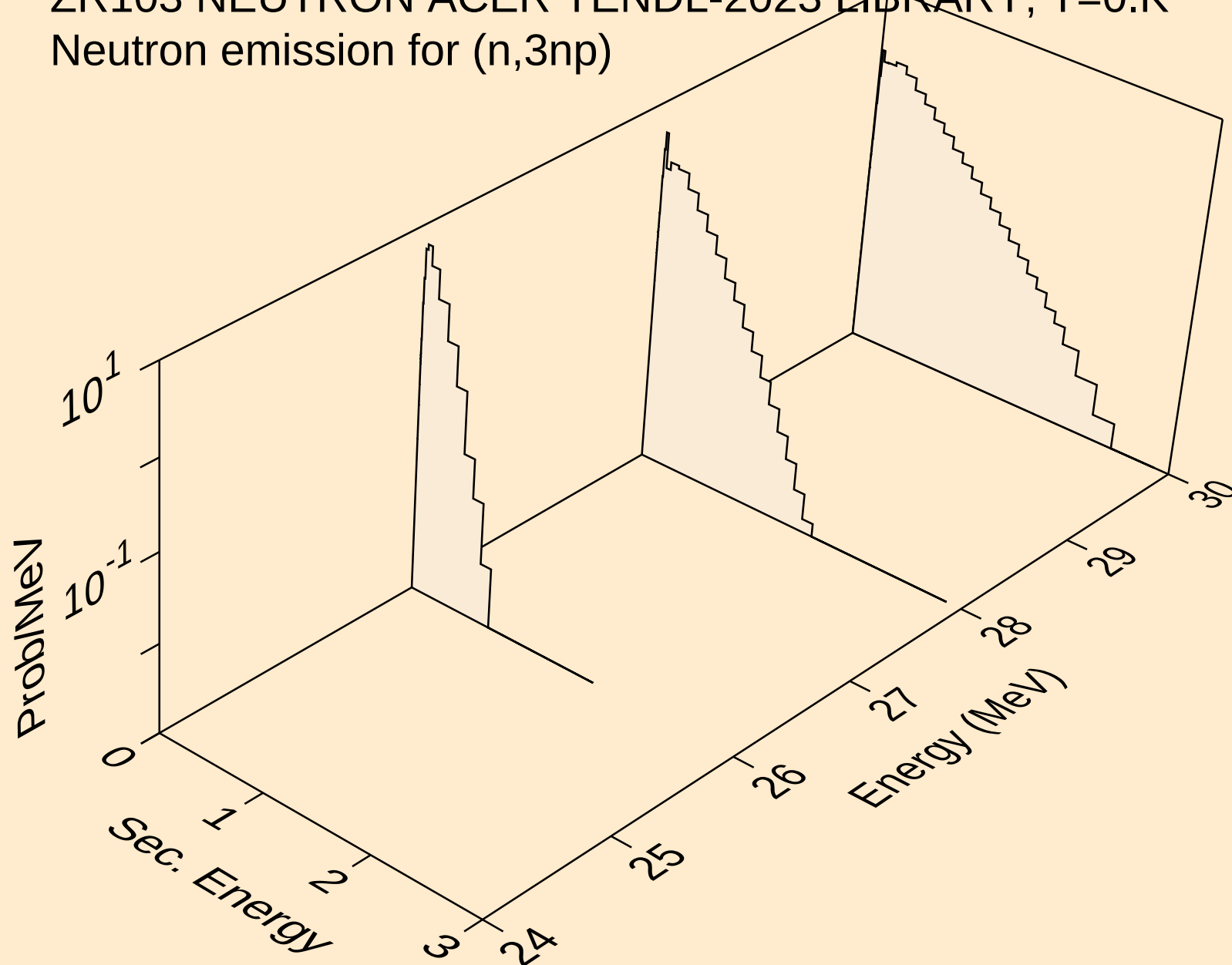
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



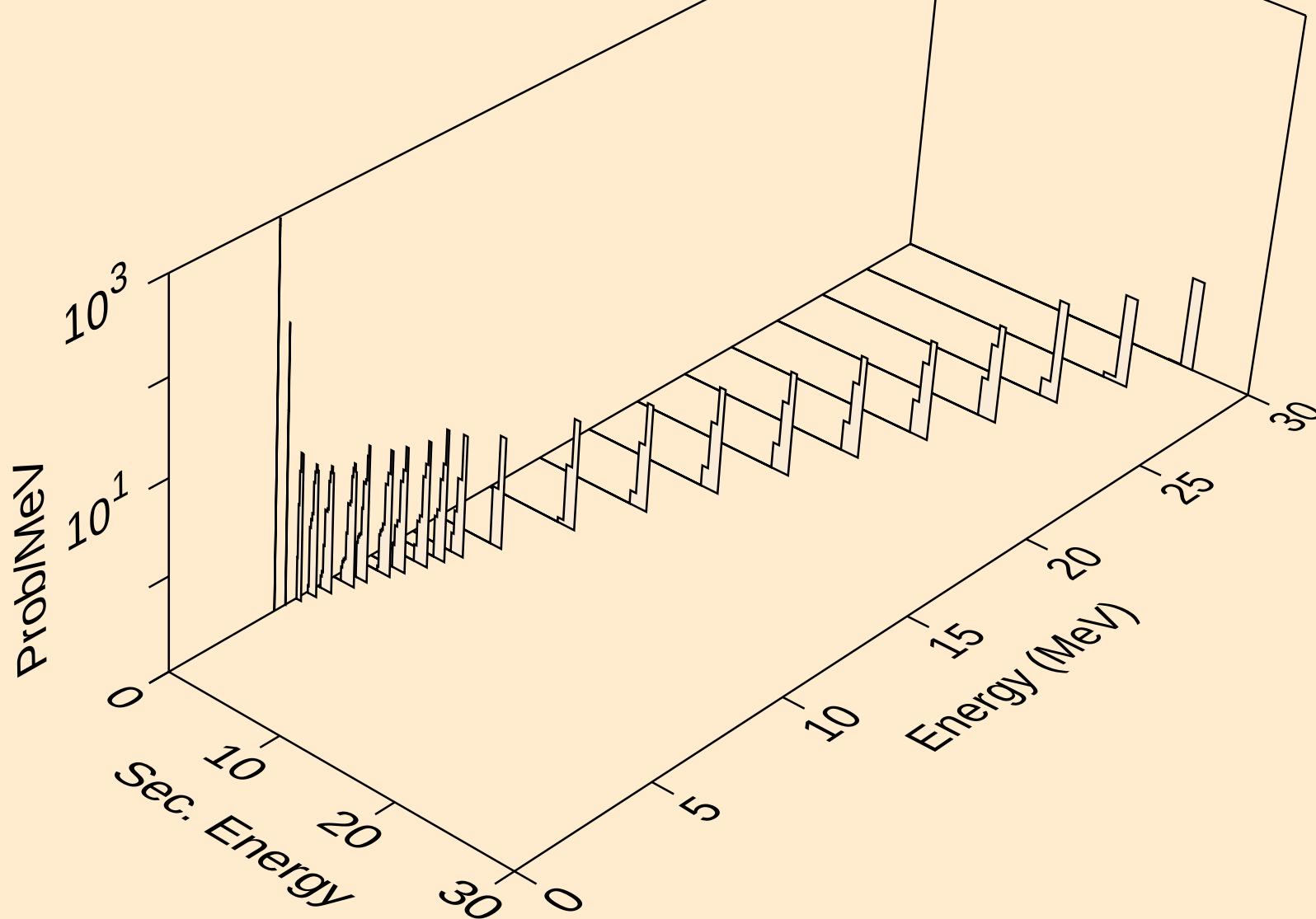
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



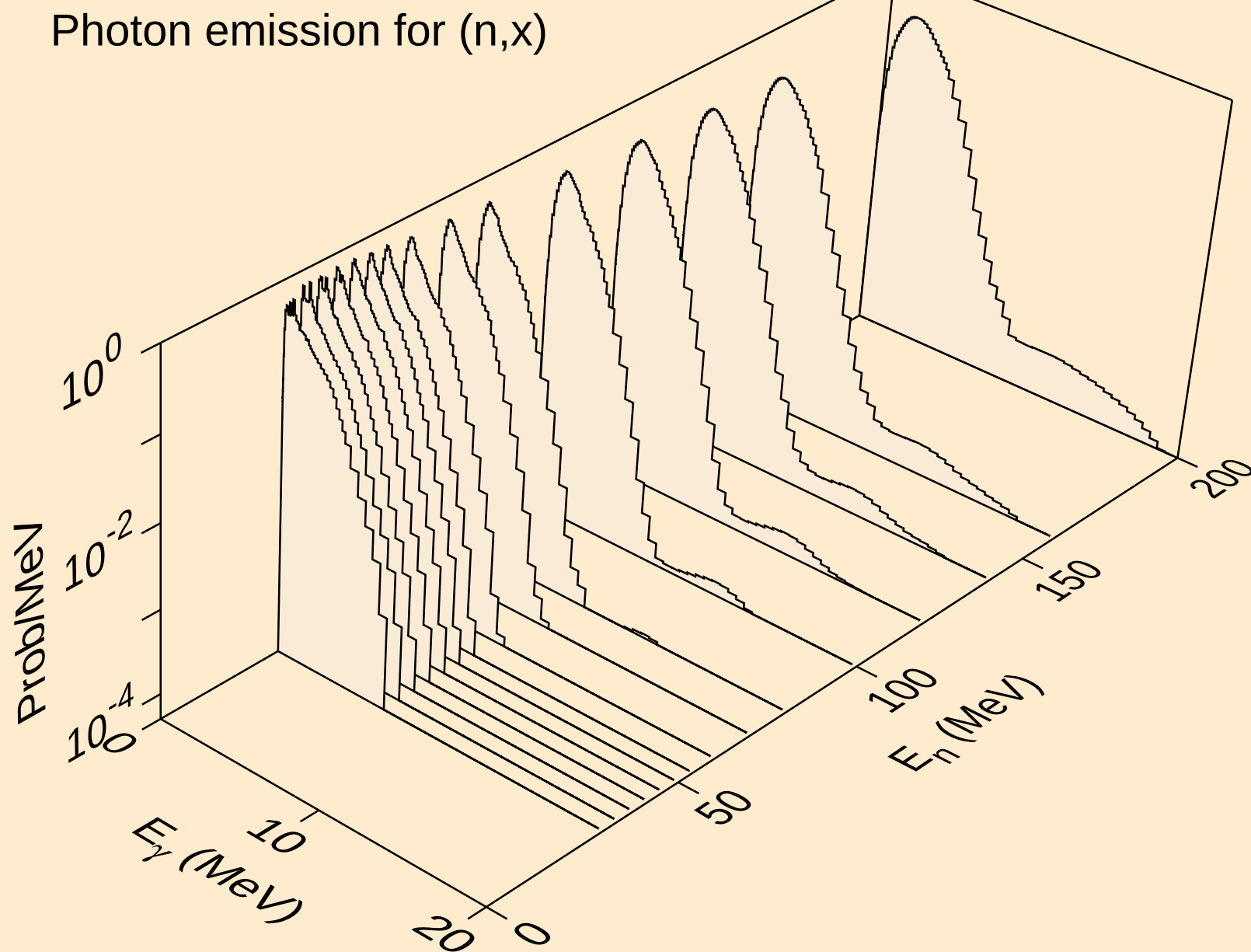
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Neutron emission for (n,3np)



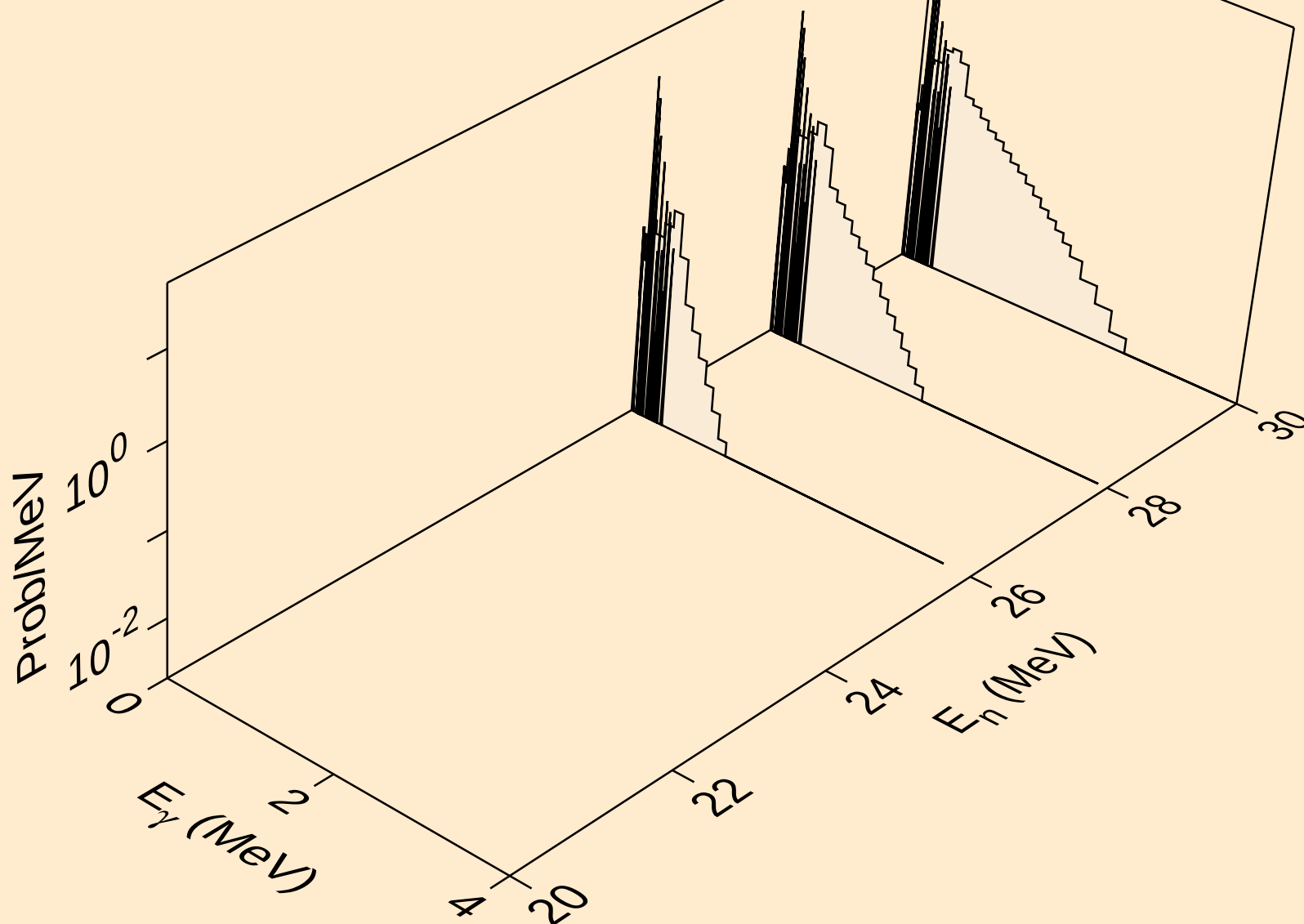
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



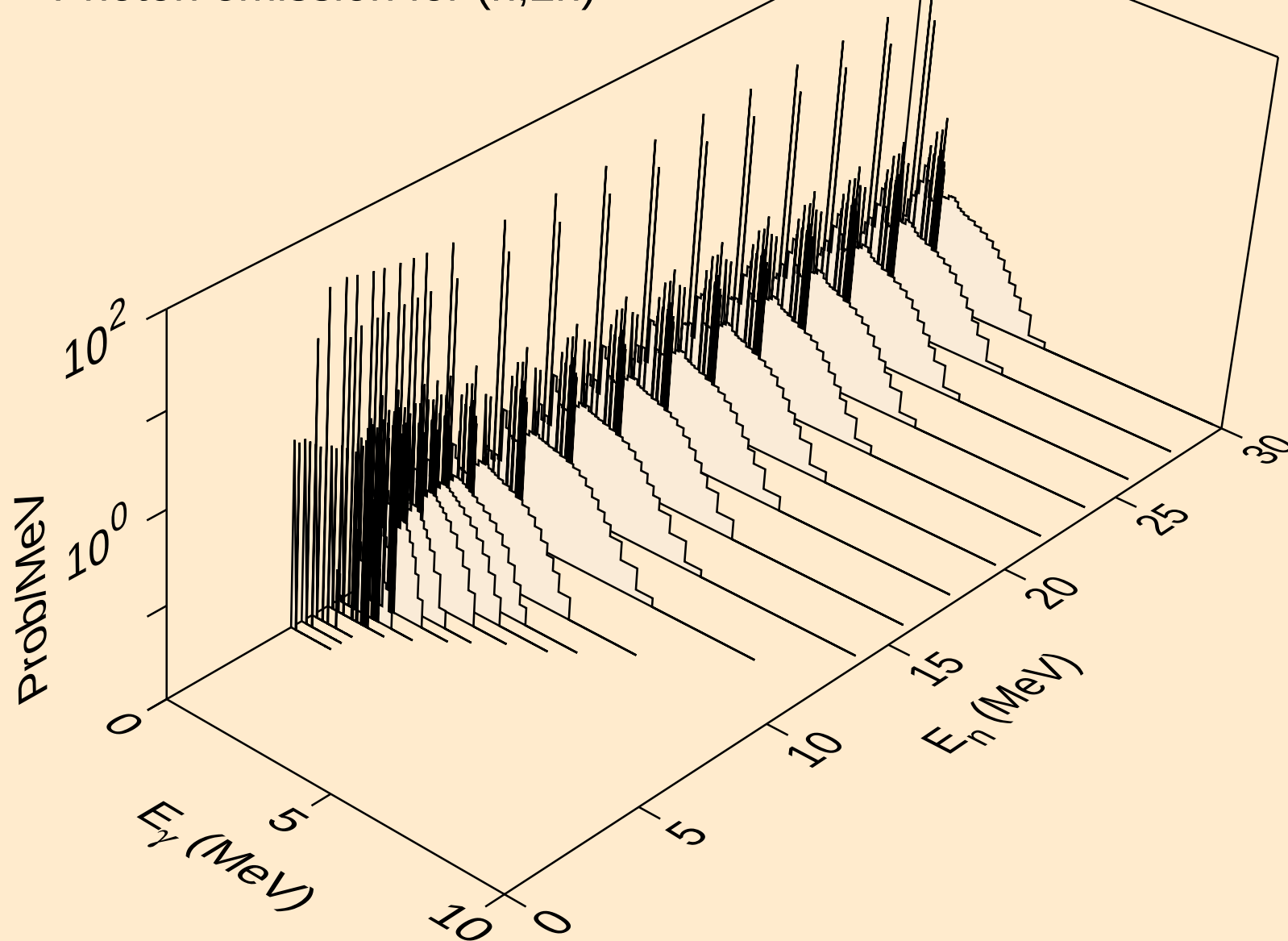
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

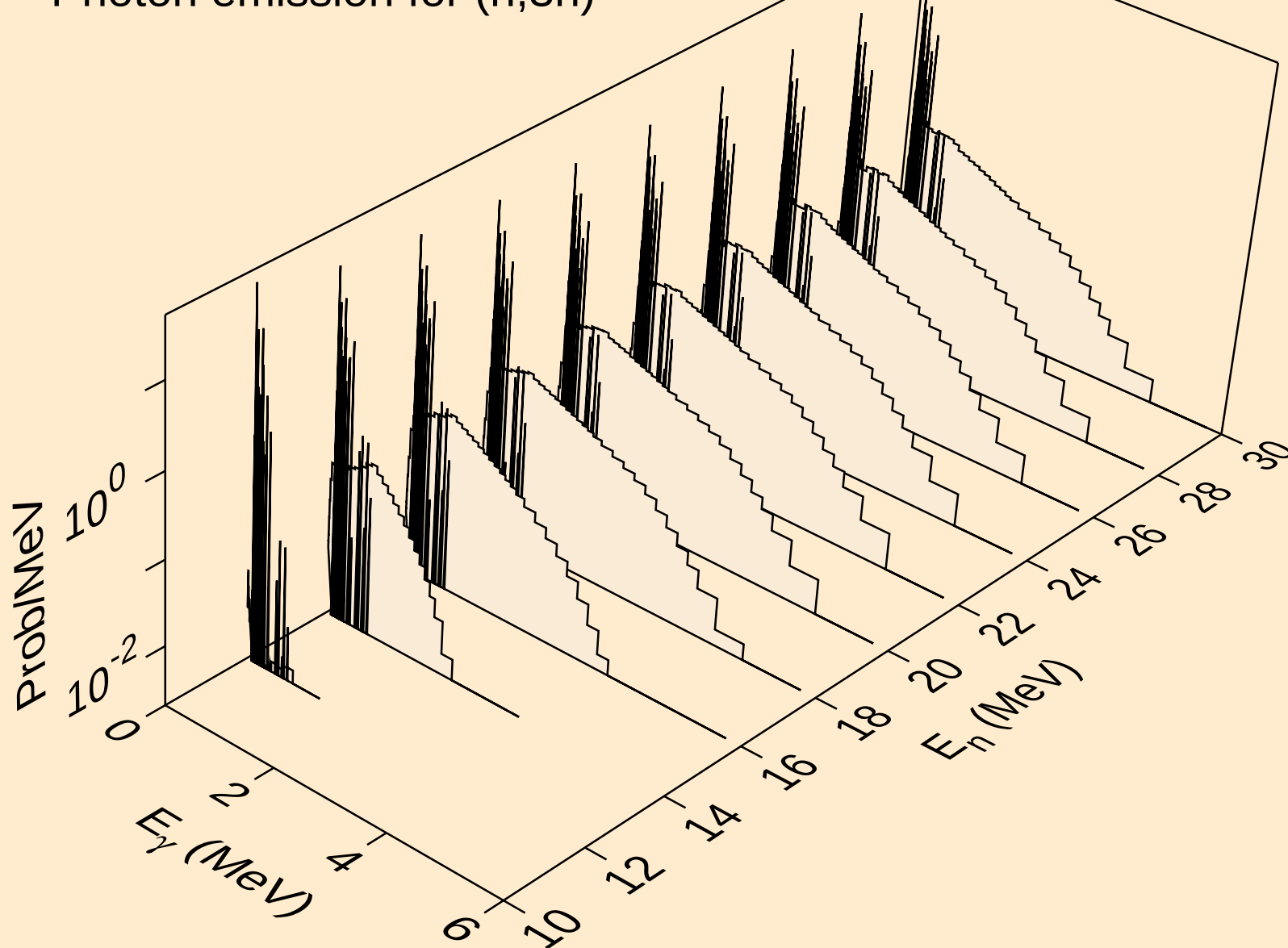


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

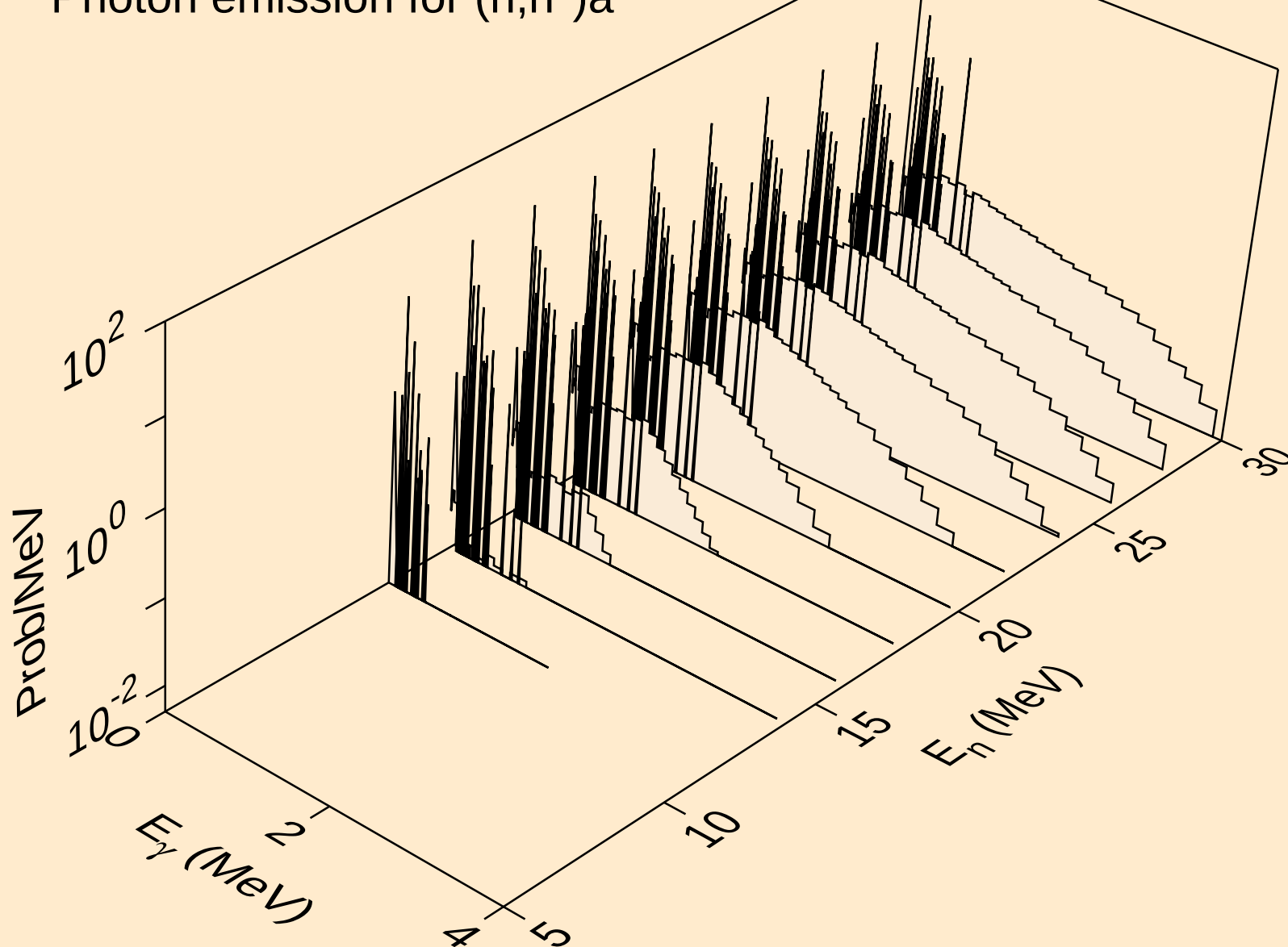




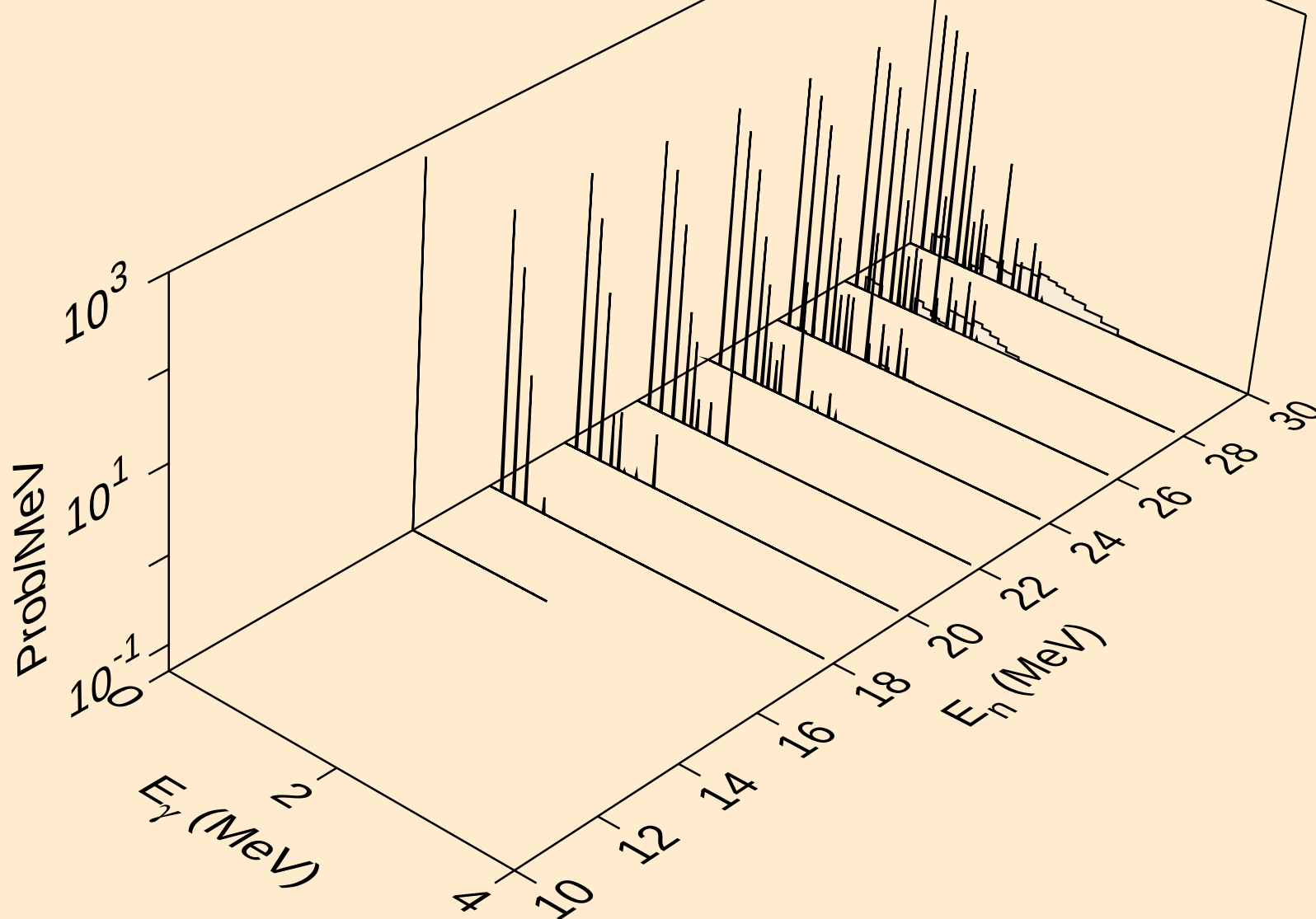
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



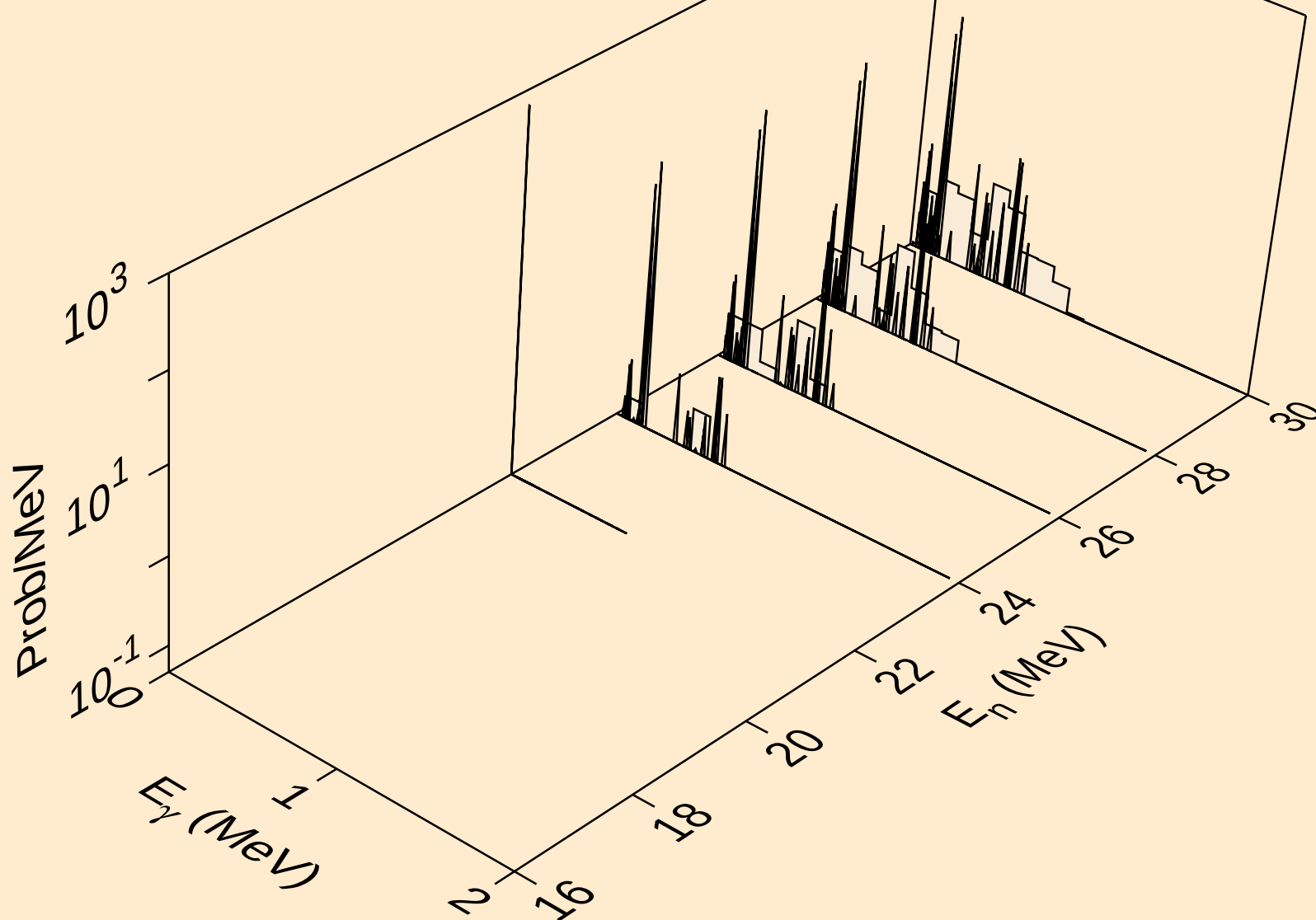
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



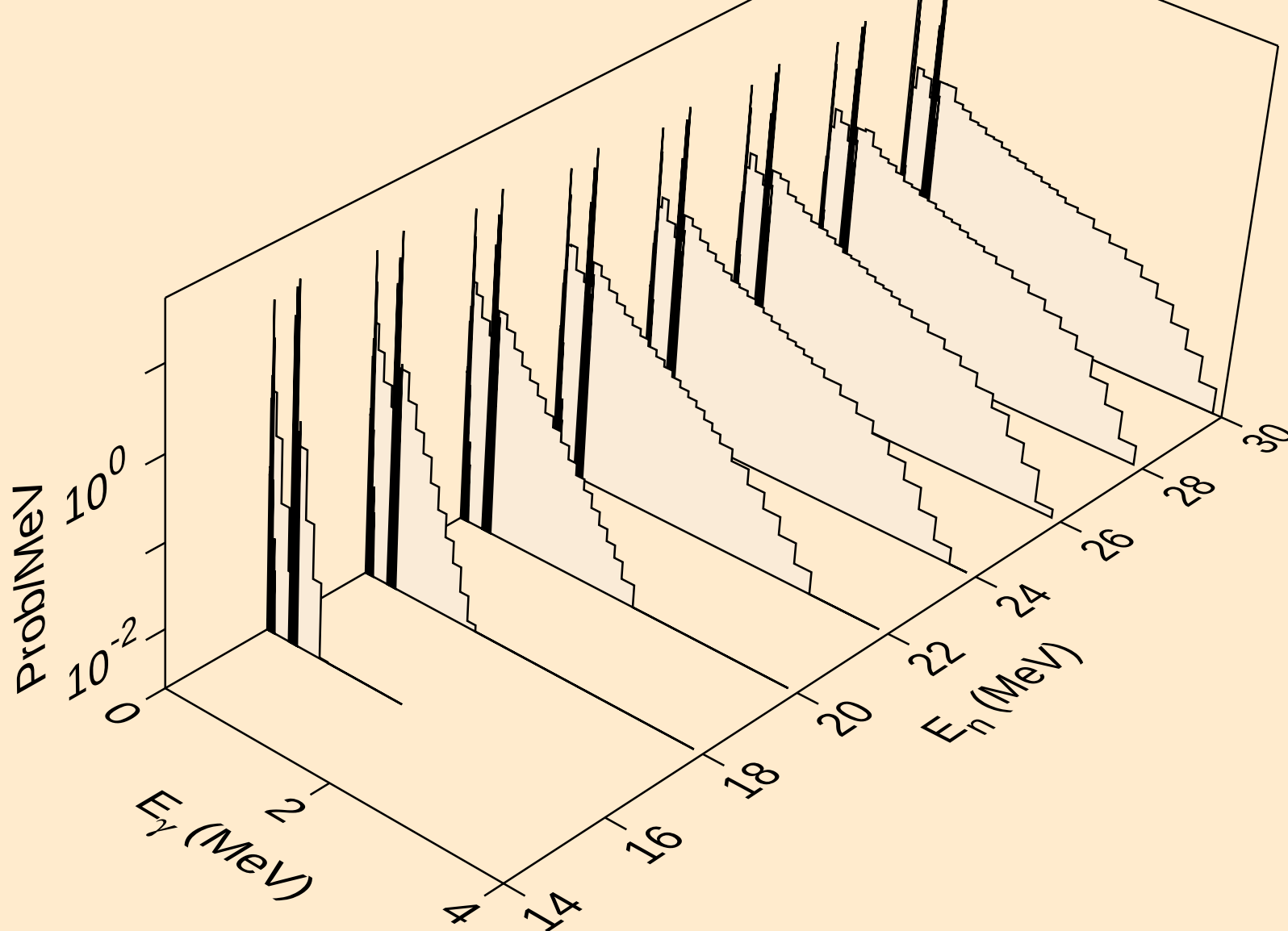
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



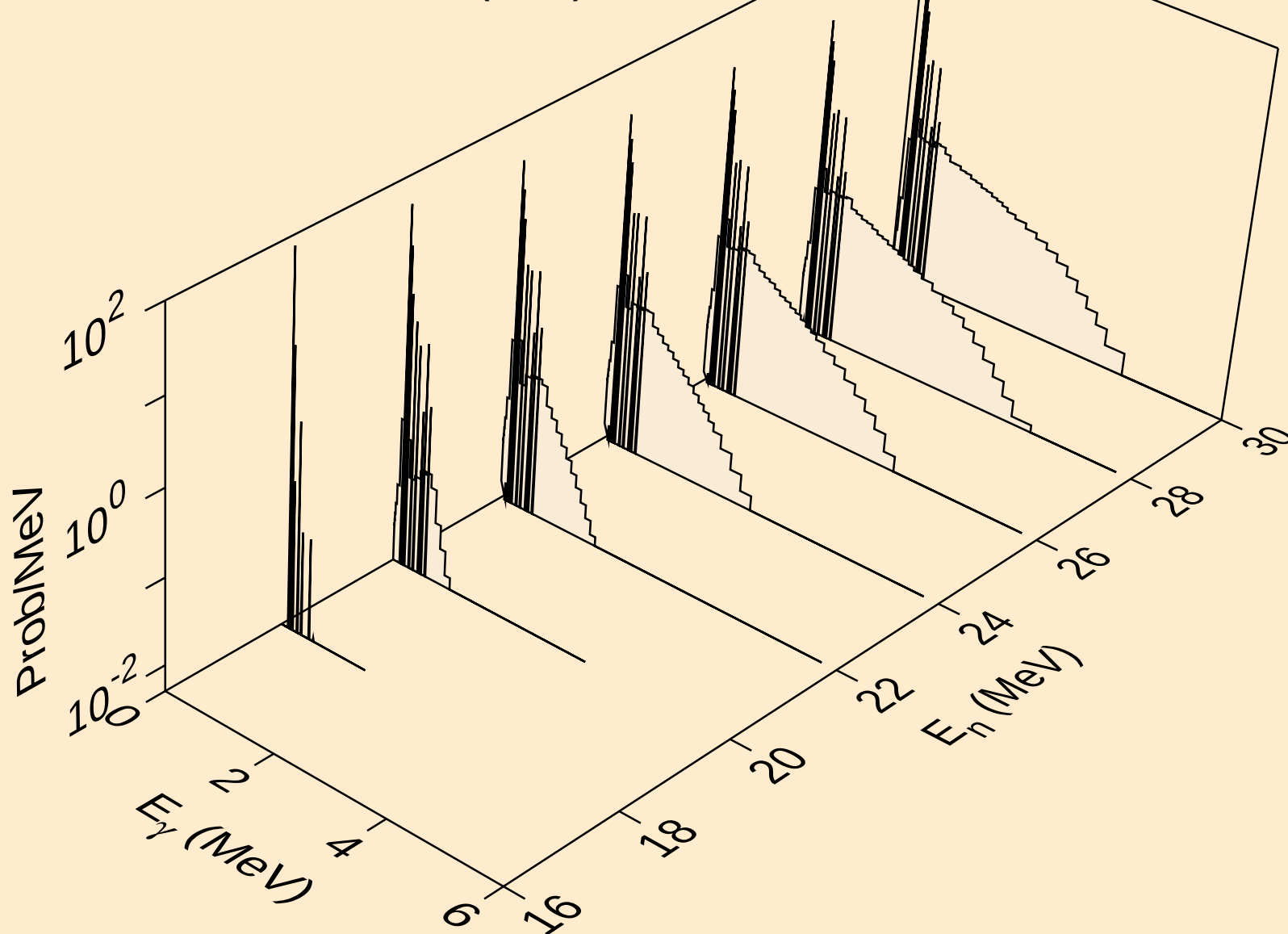
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n) $\alpha$



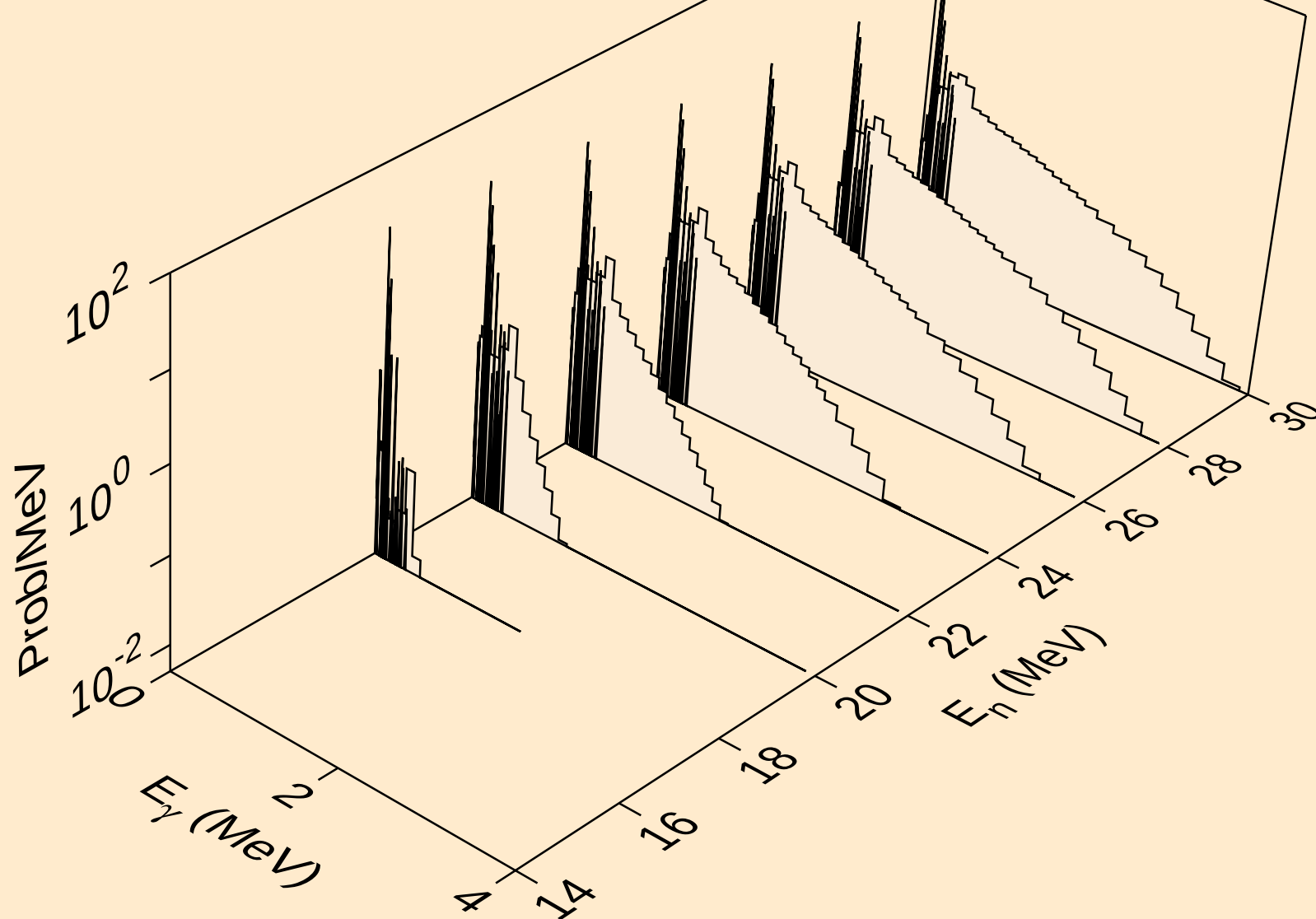
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



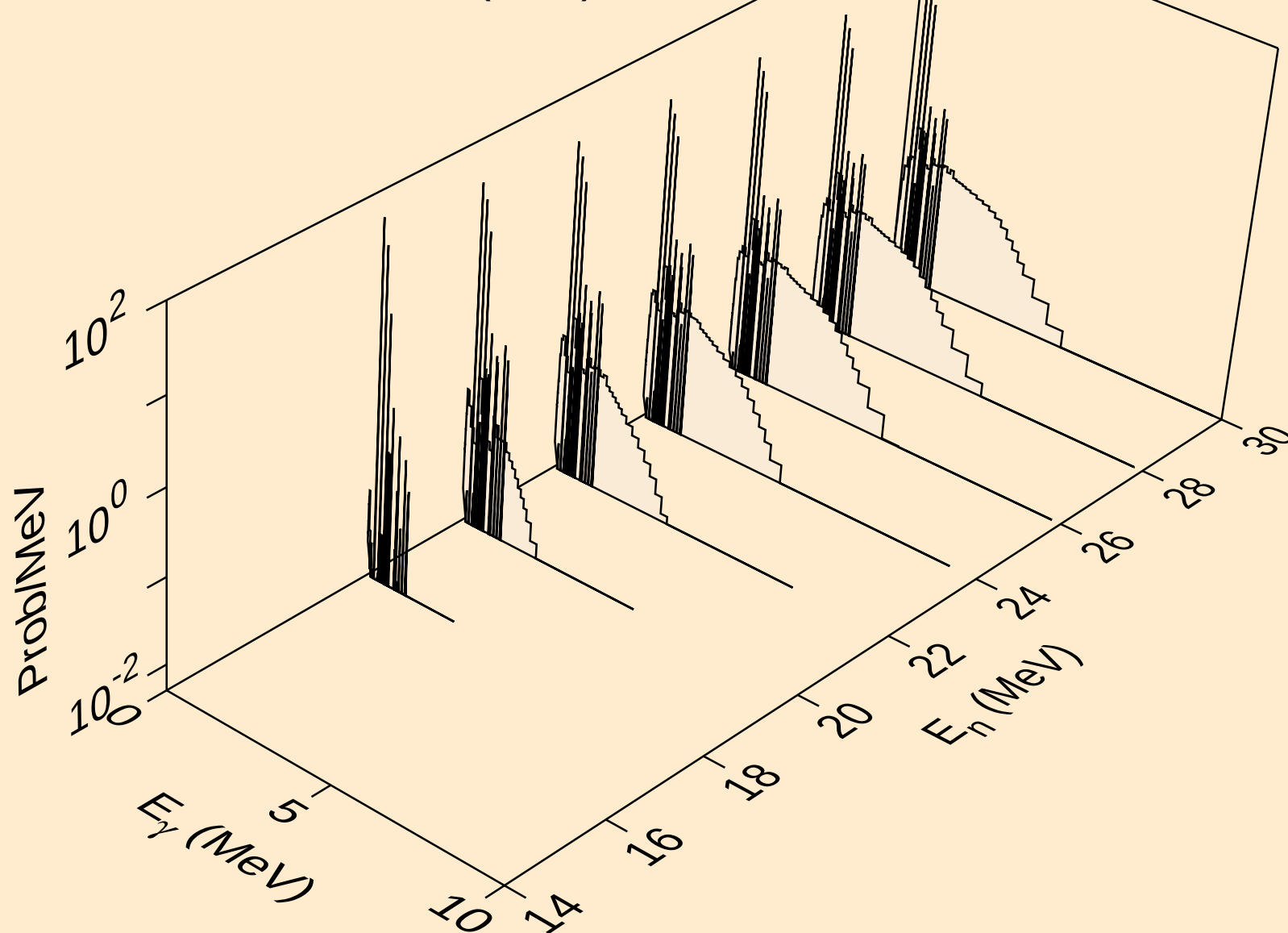
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

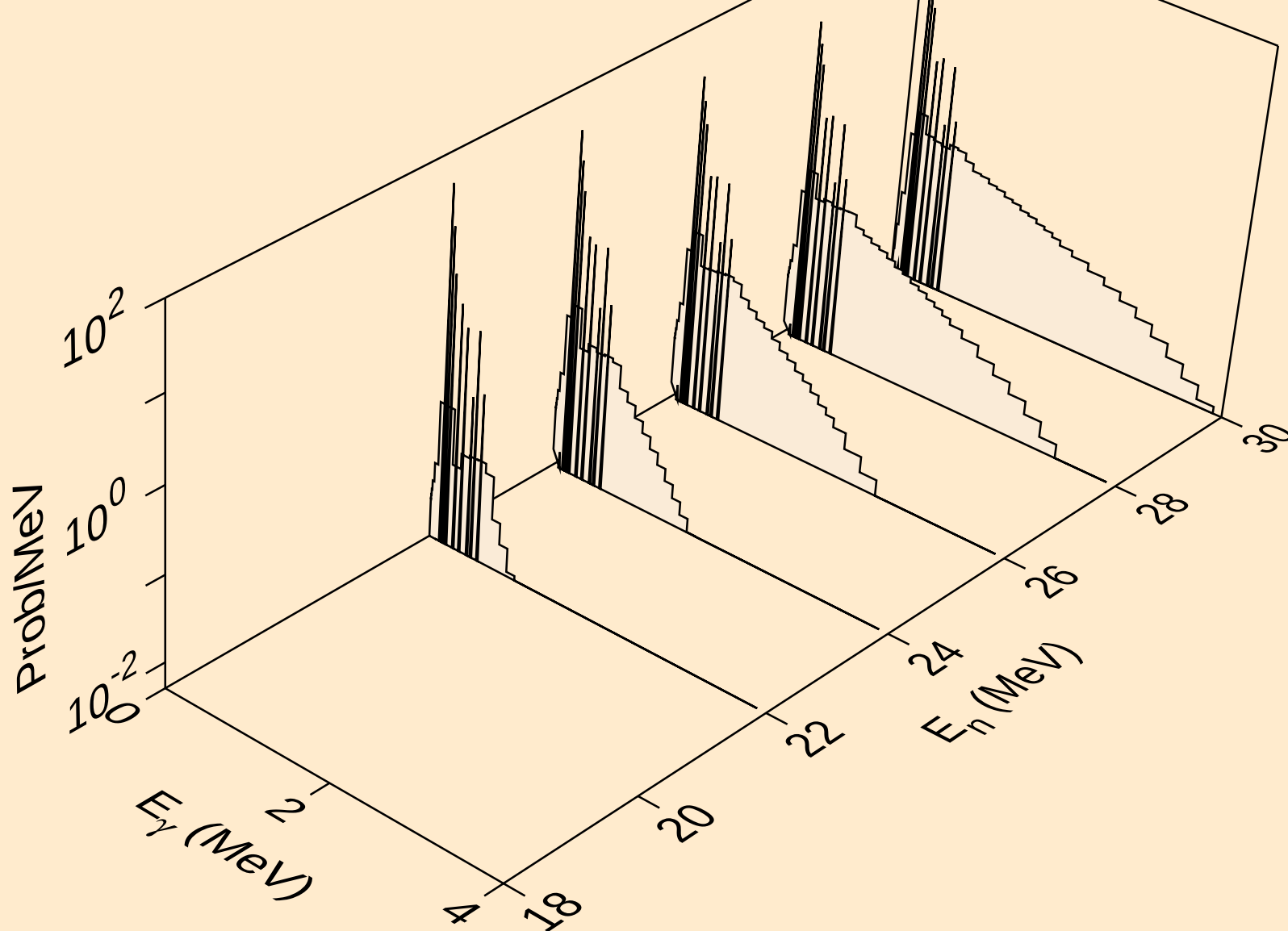


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)

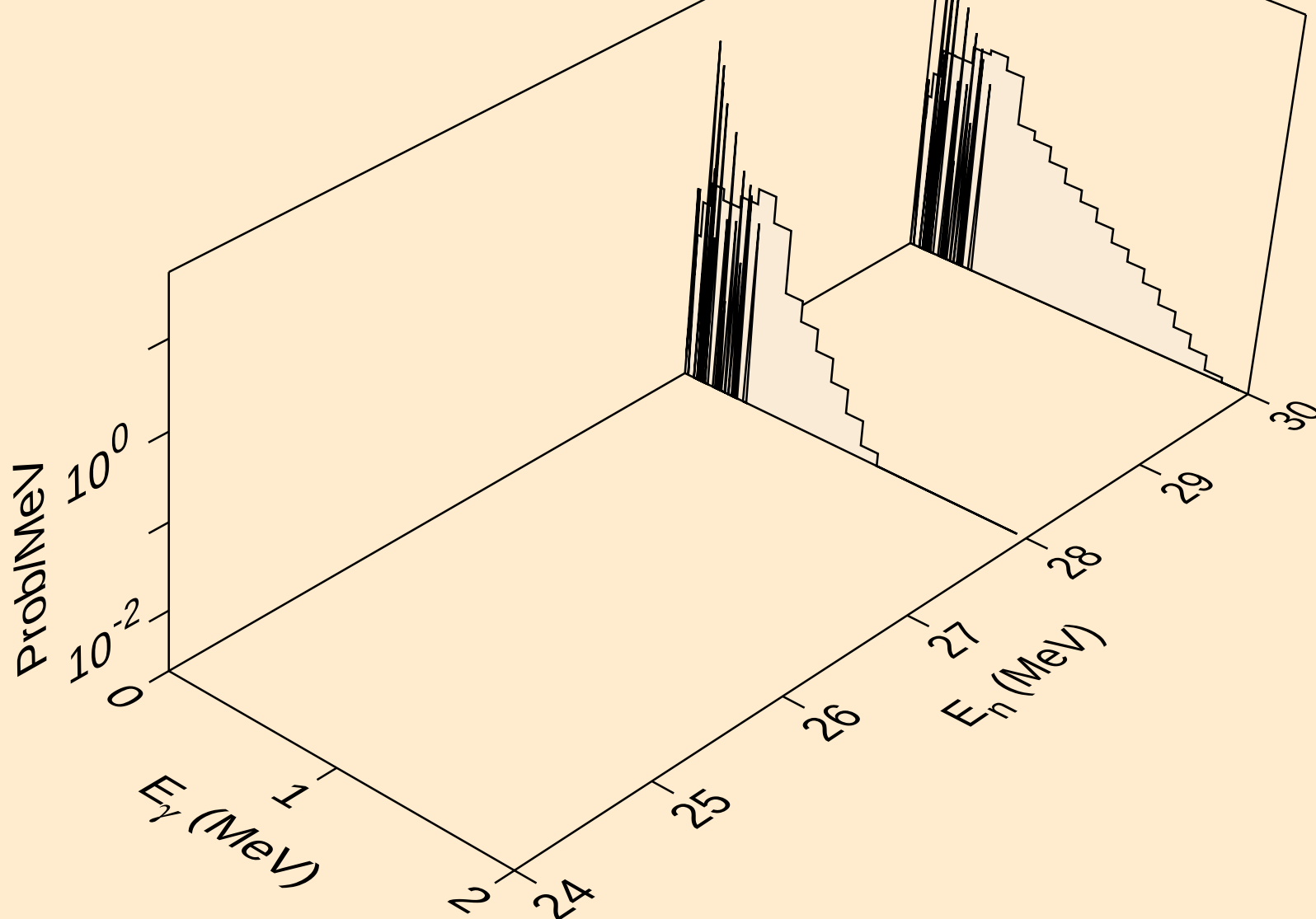




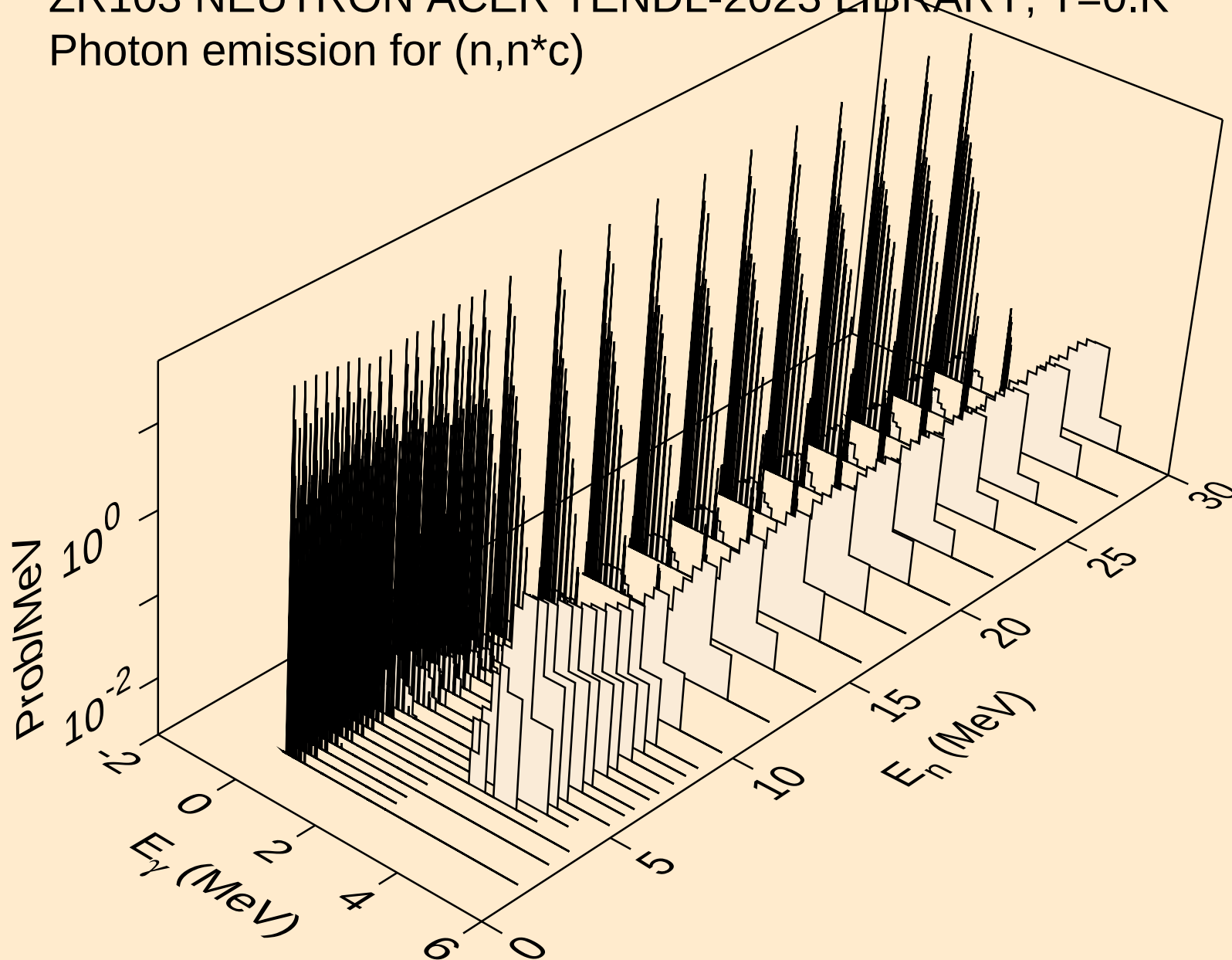
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



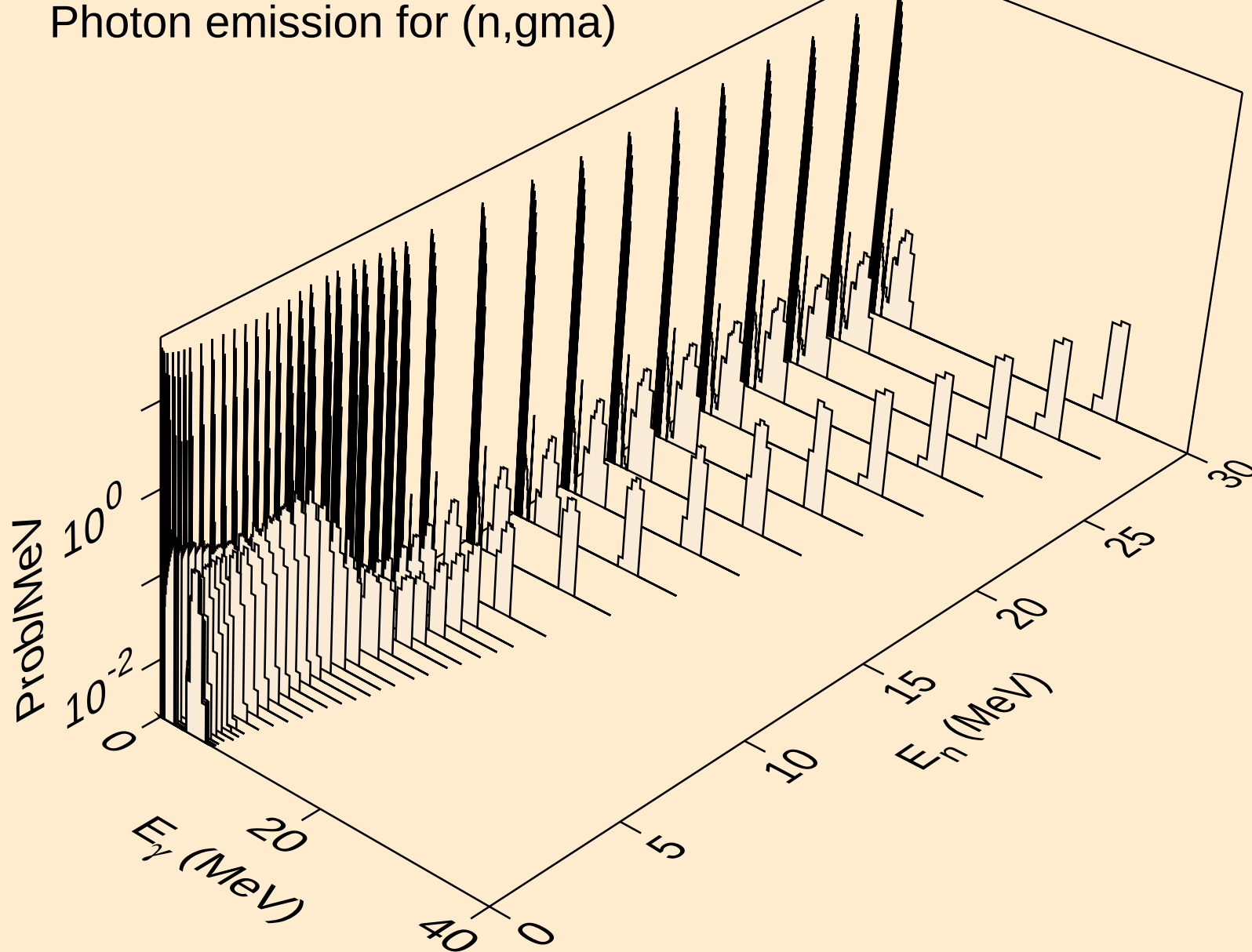
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



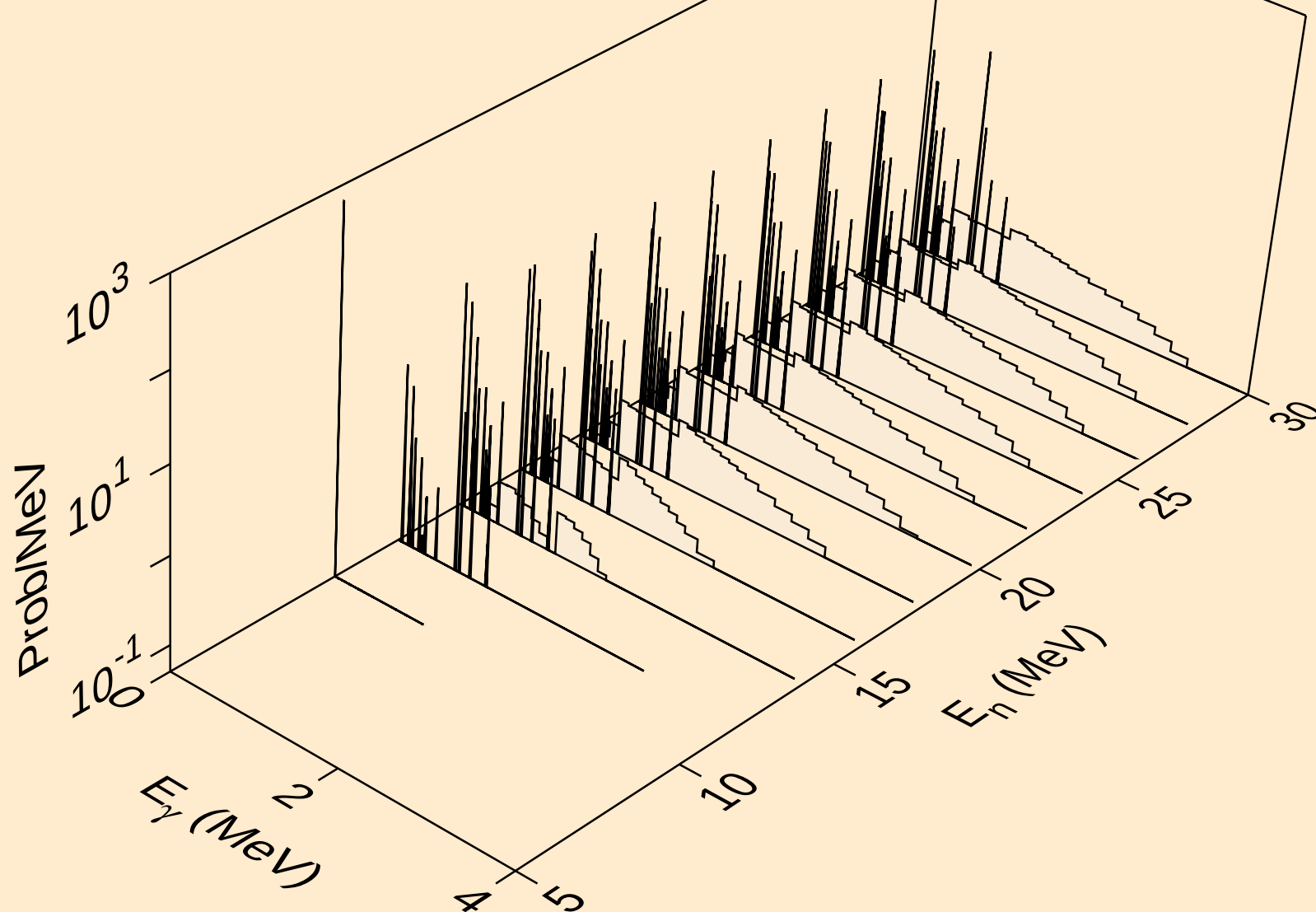
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



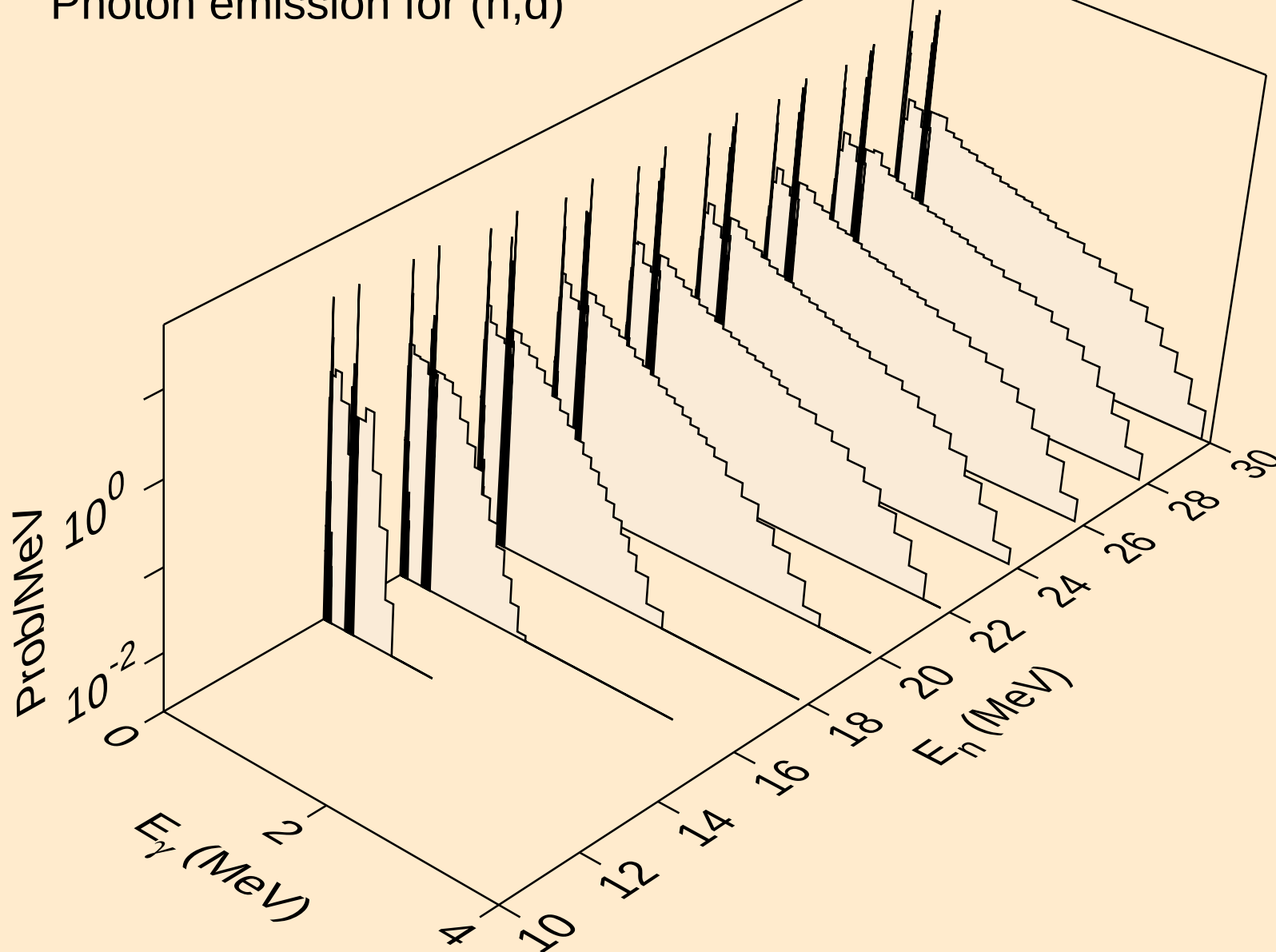
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



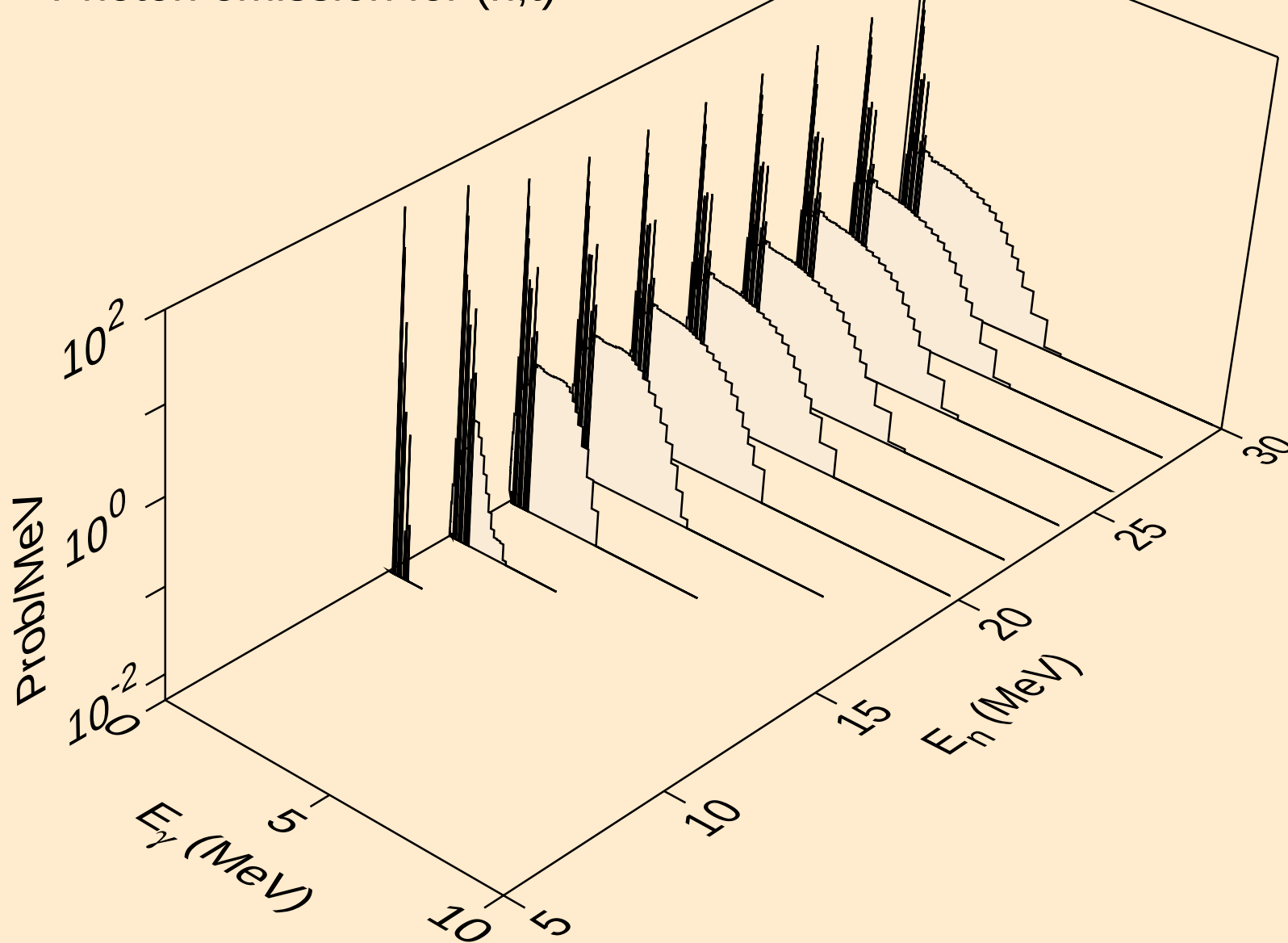
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



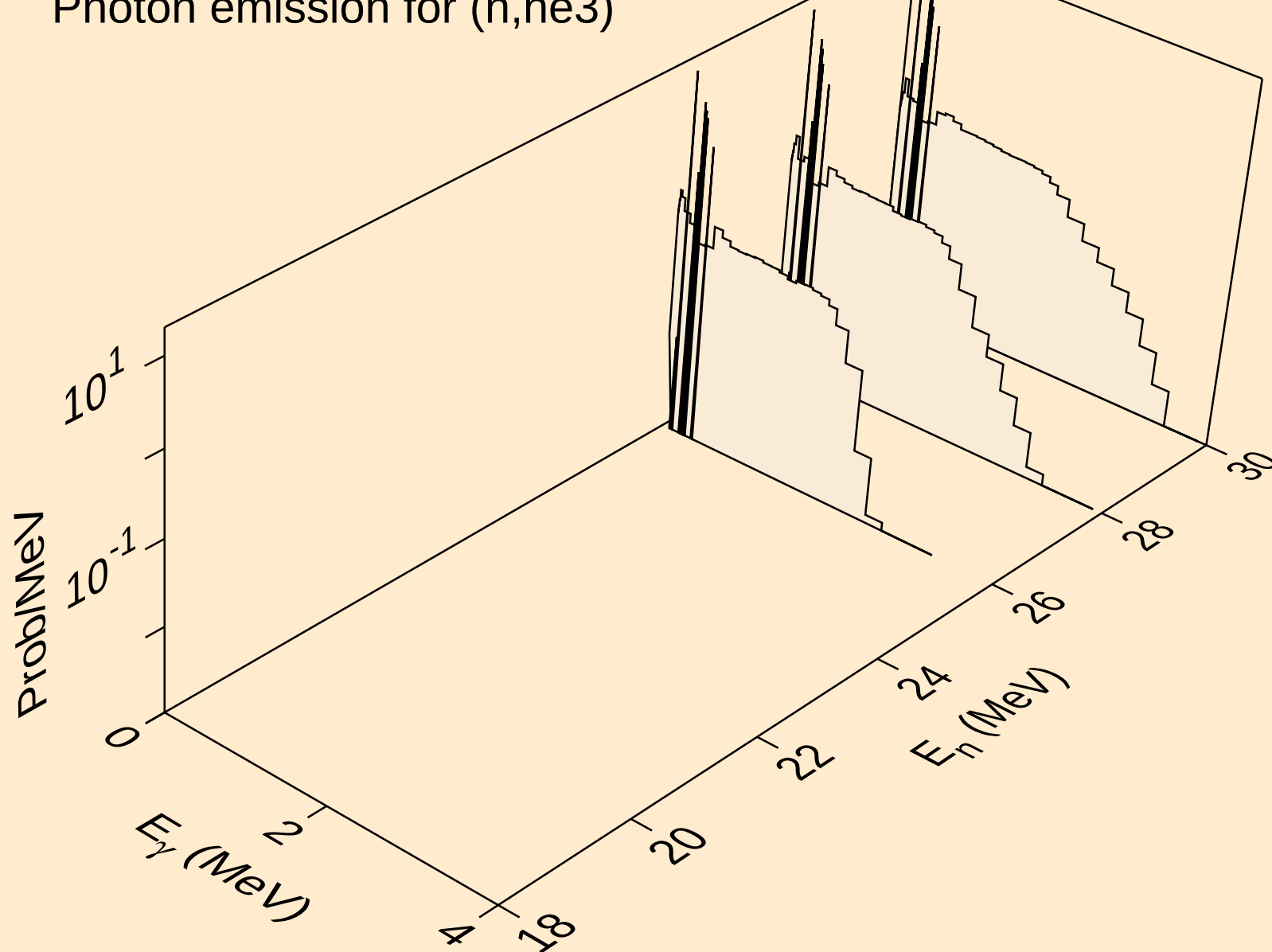
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

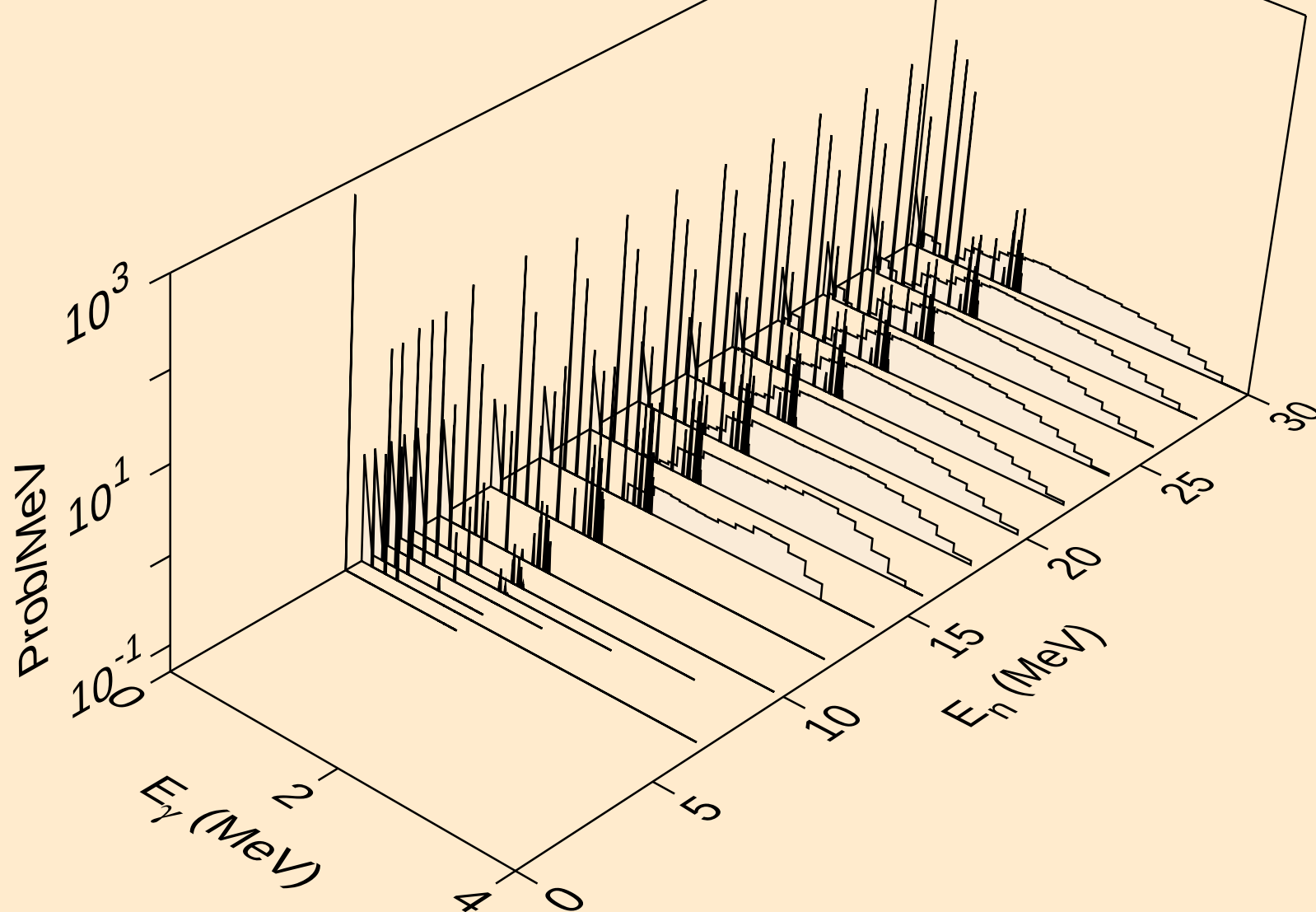


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

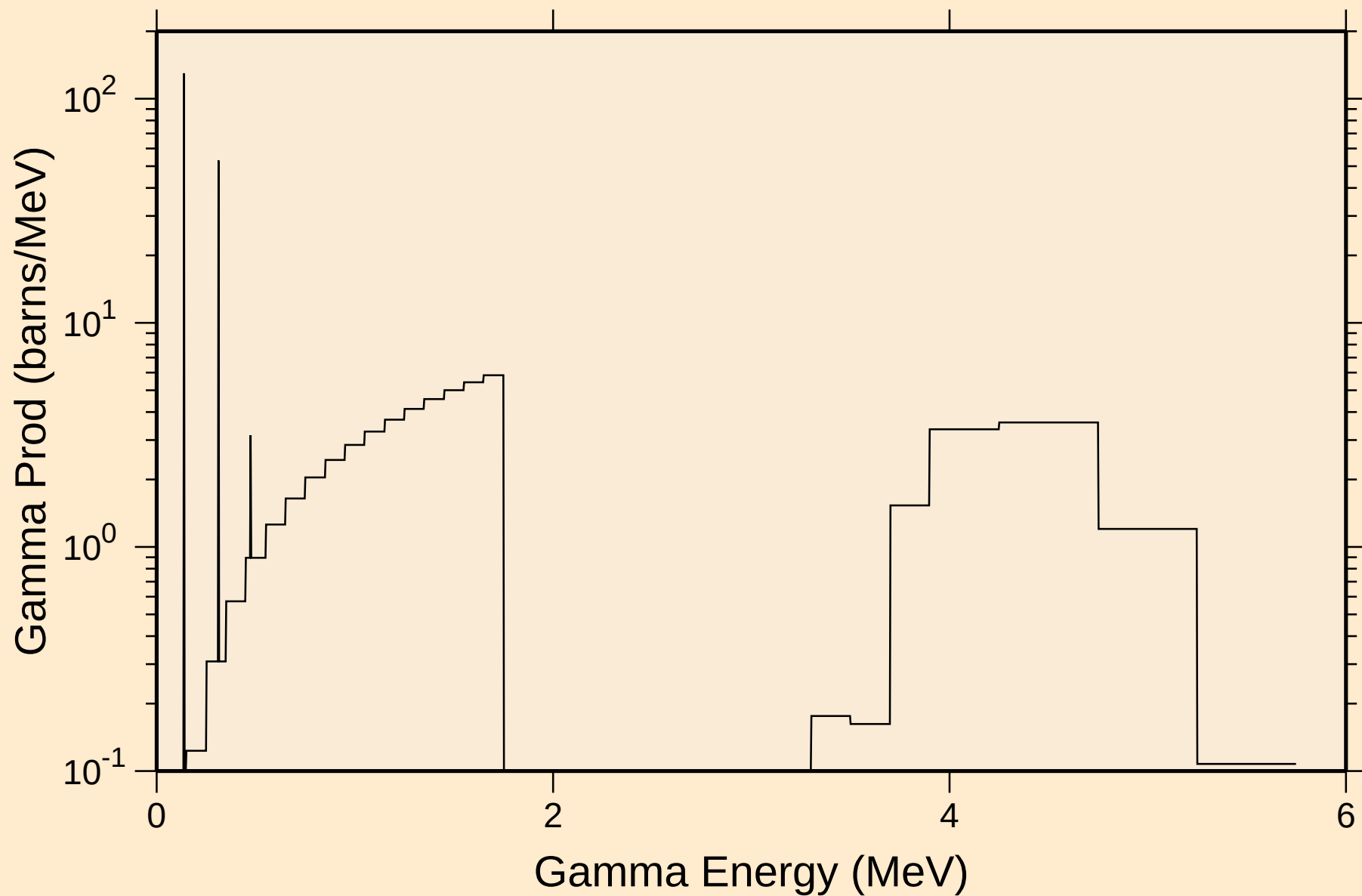




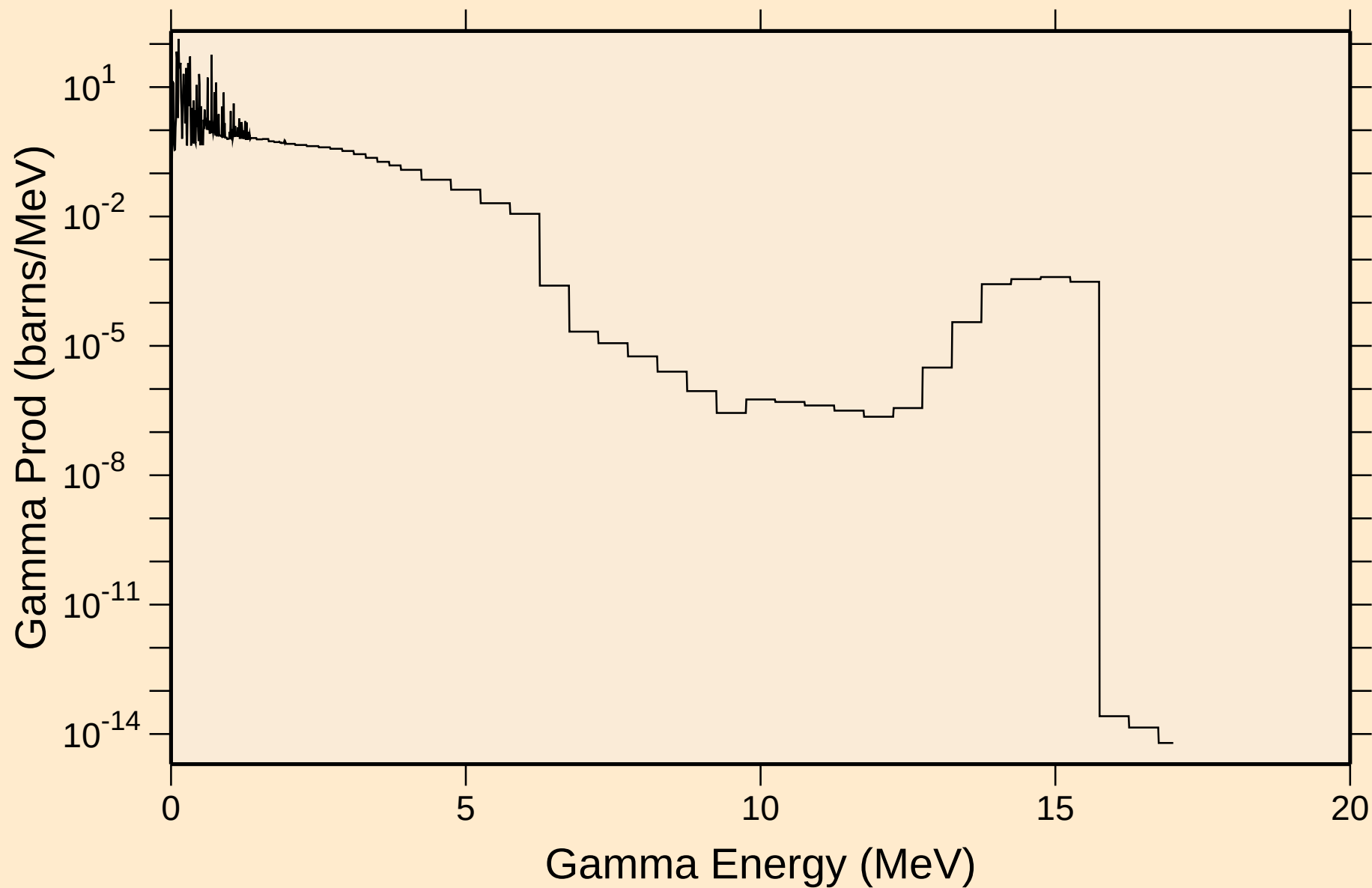
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

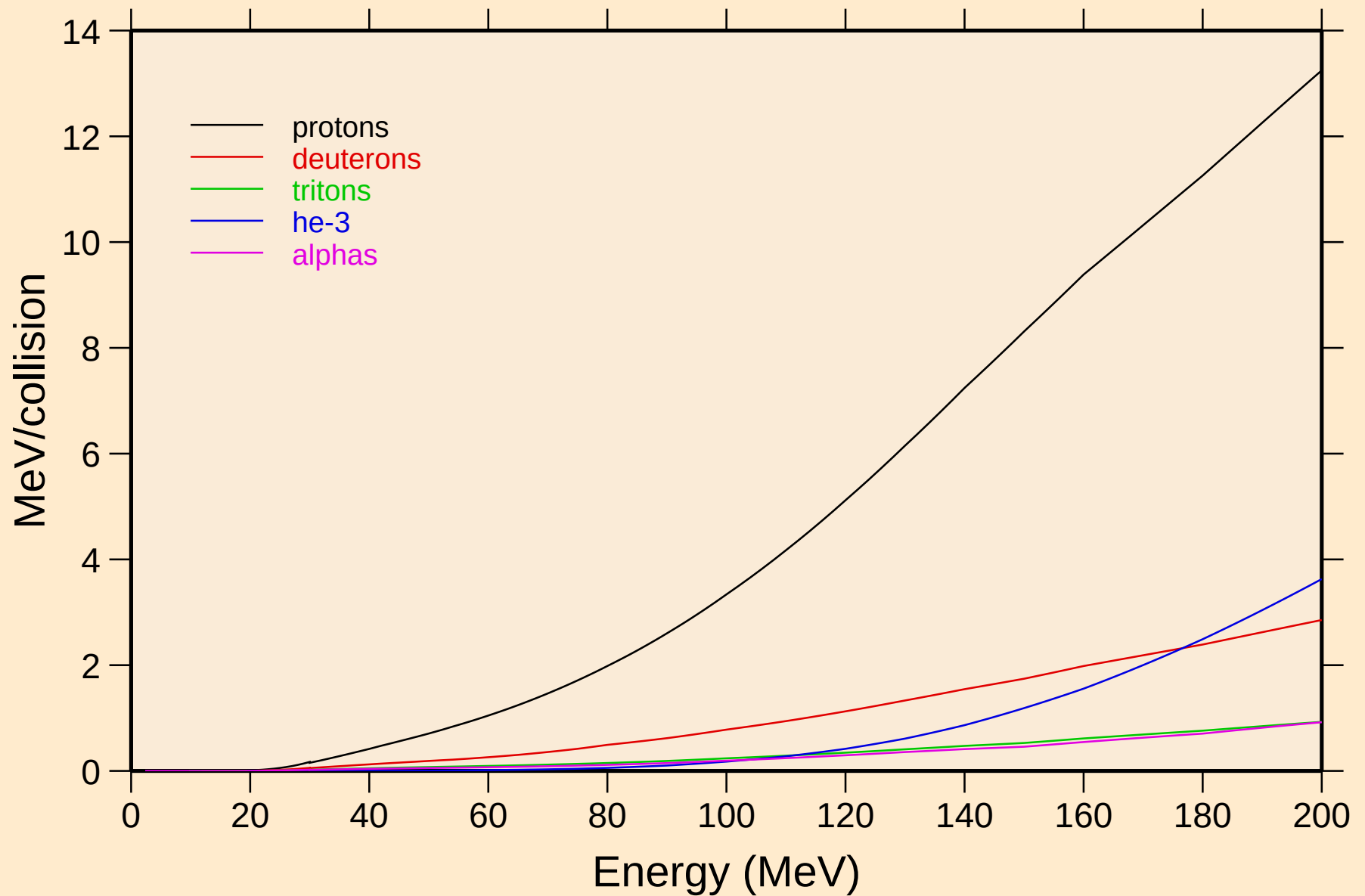


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

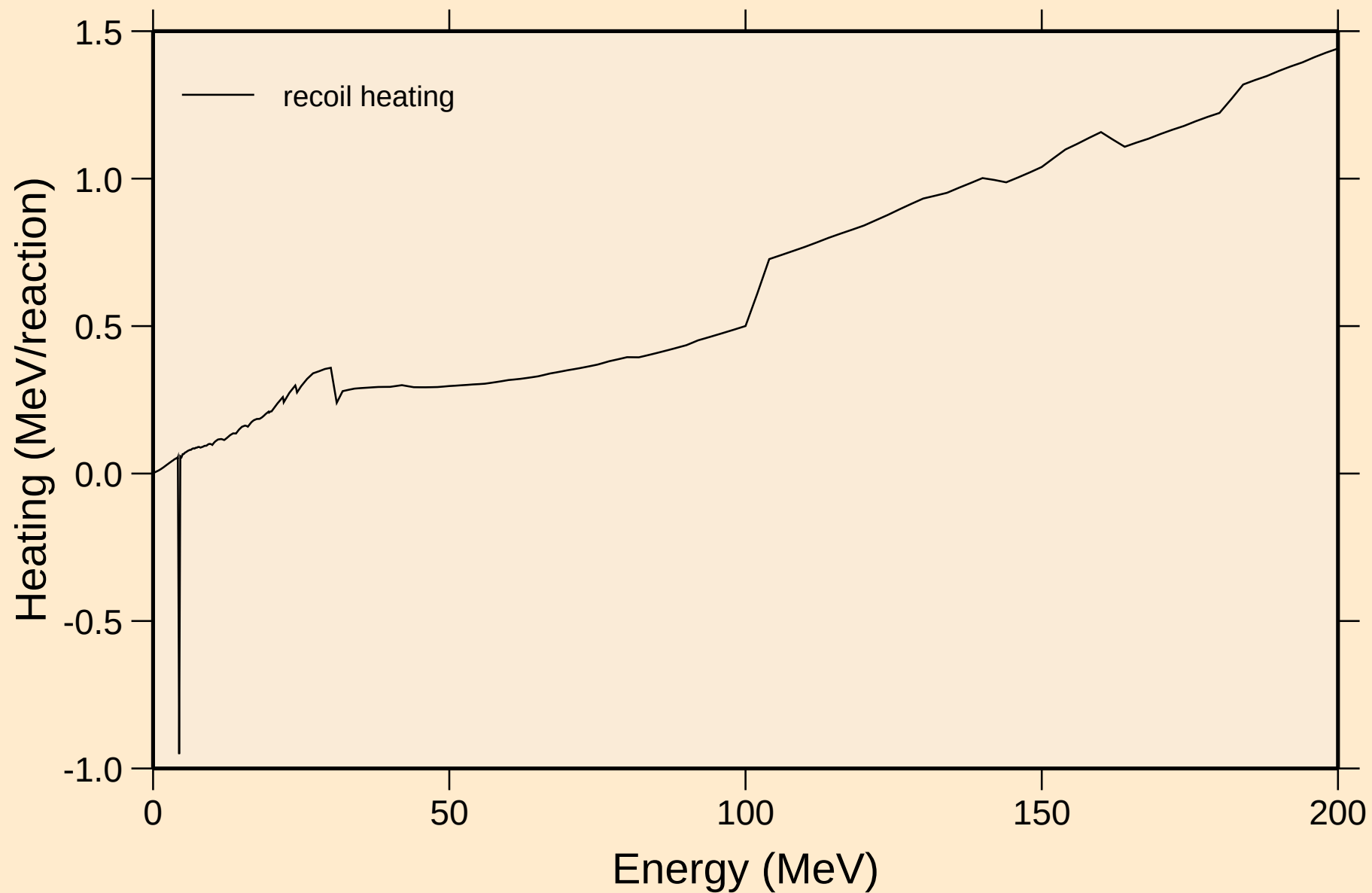


# ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

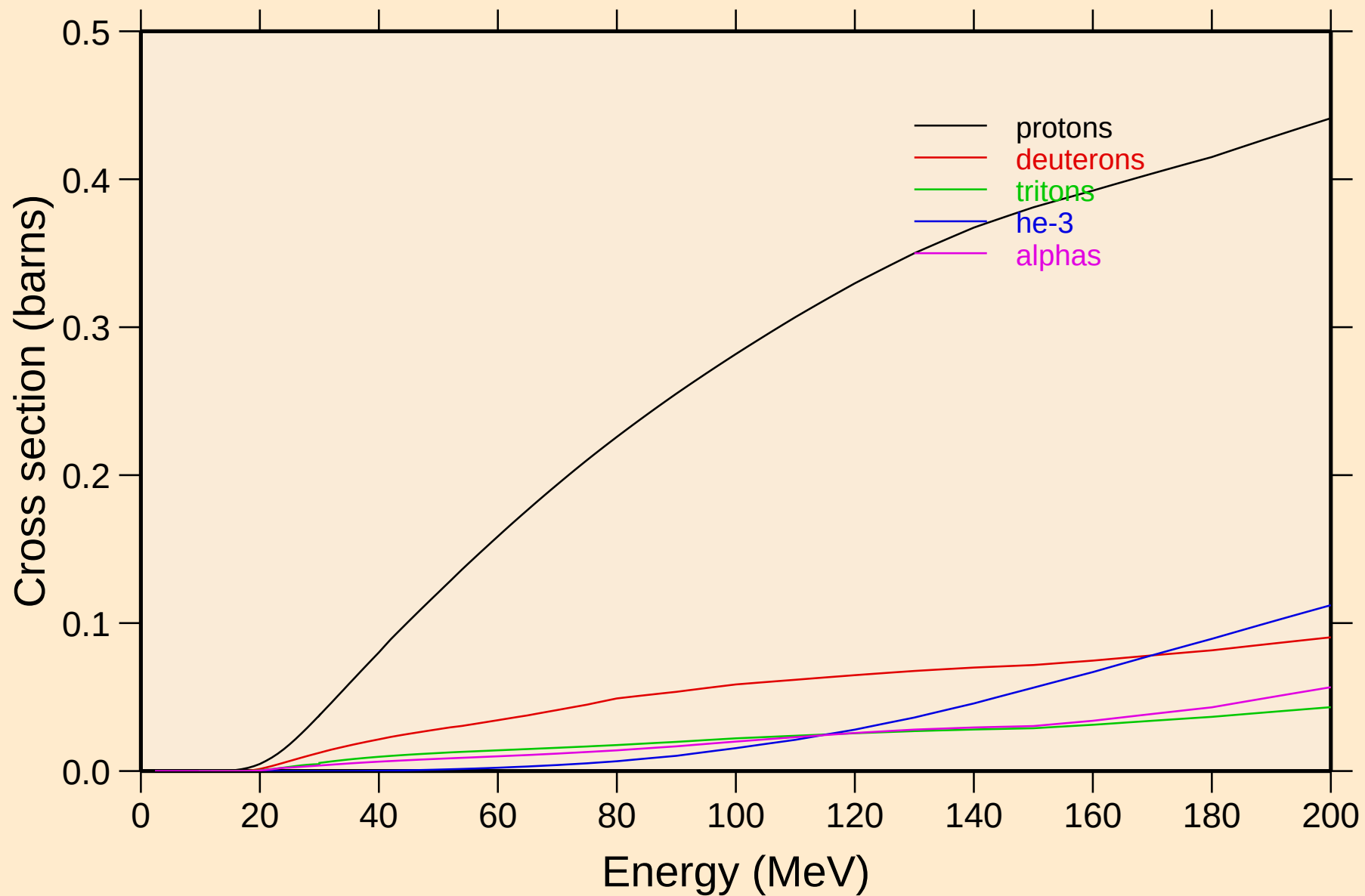


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

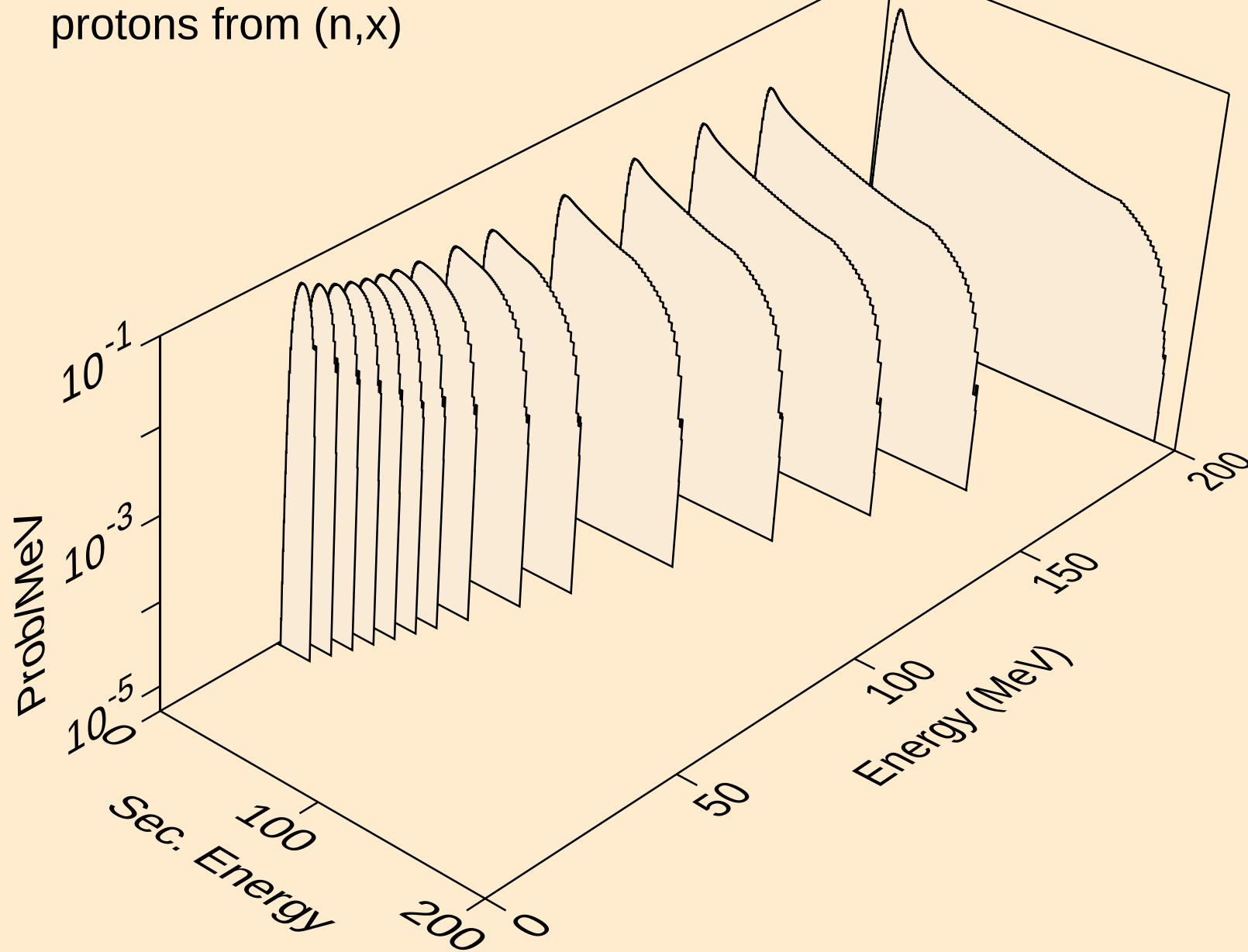


# ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

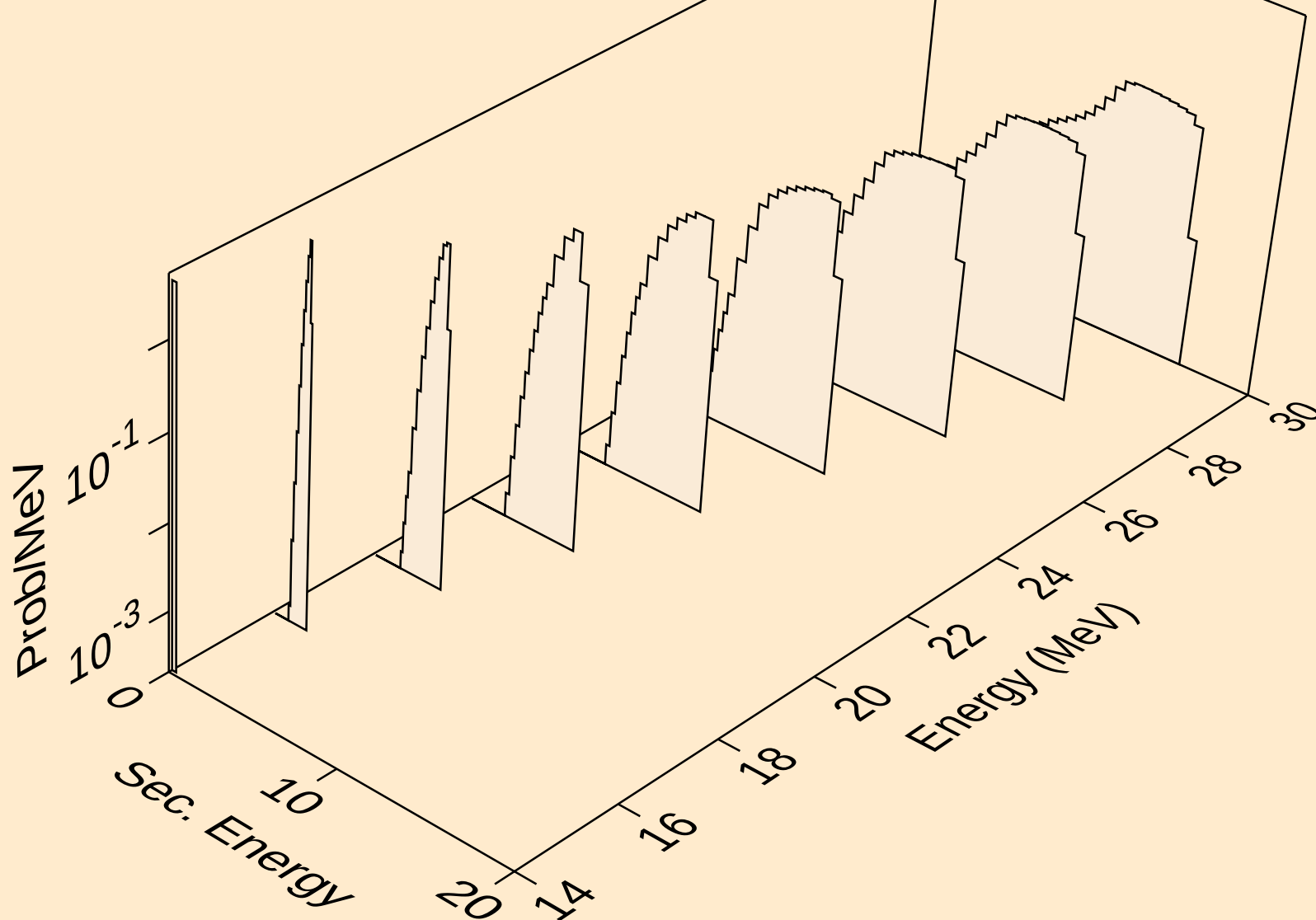
## Particle production cross sections



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)

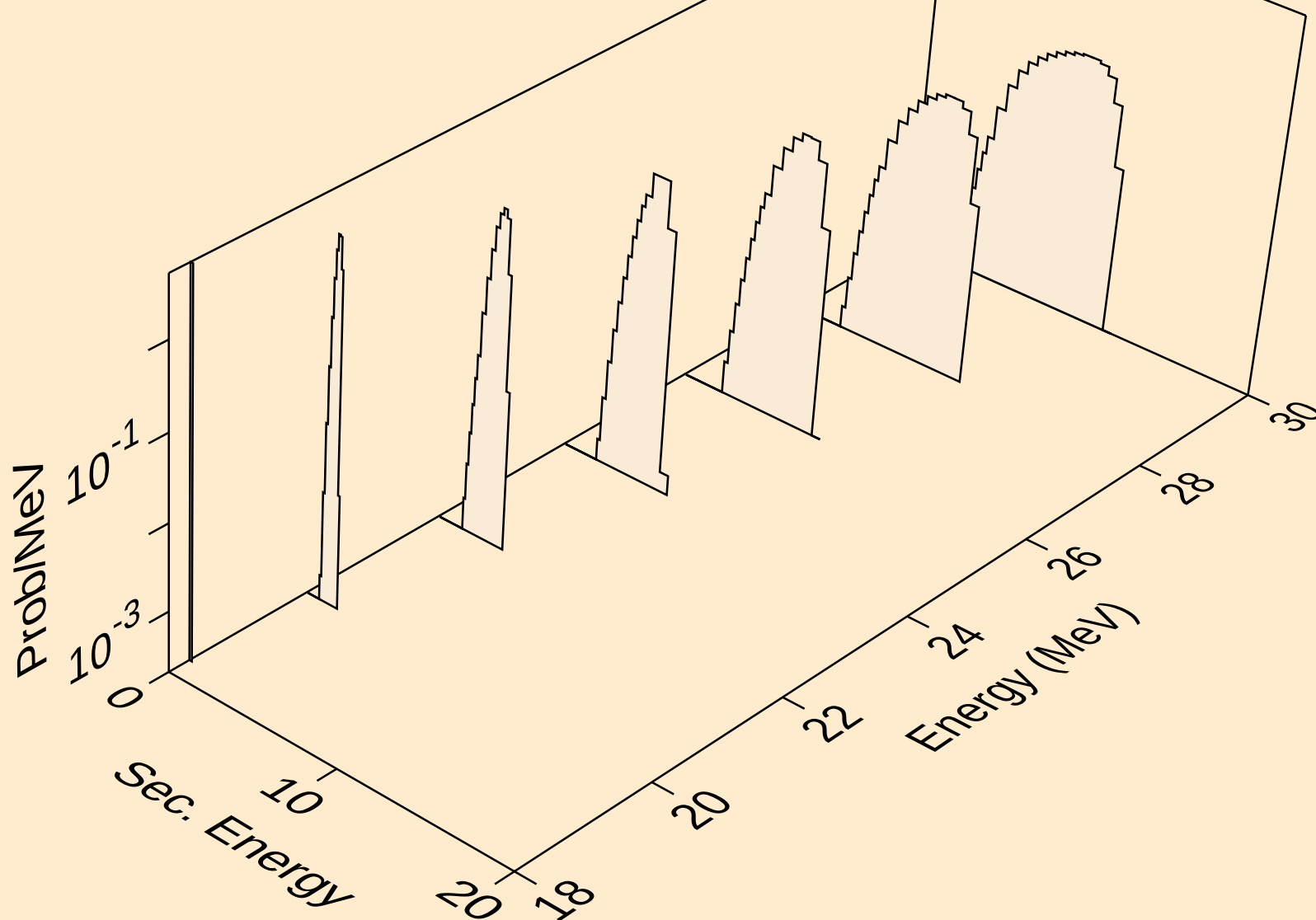


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p

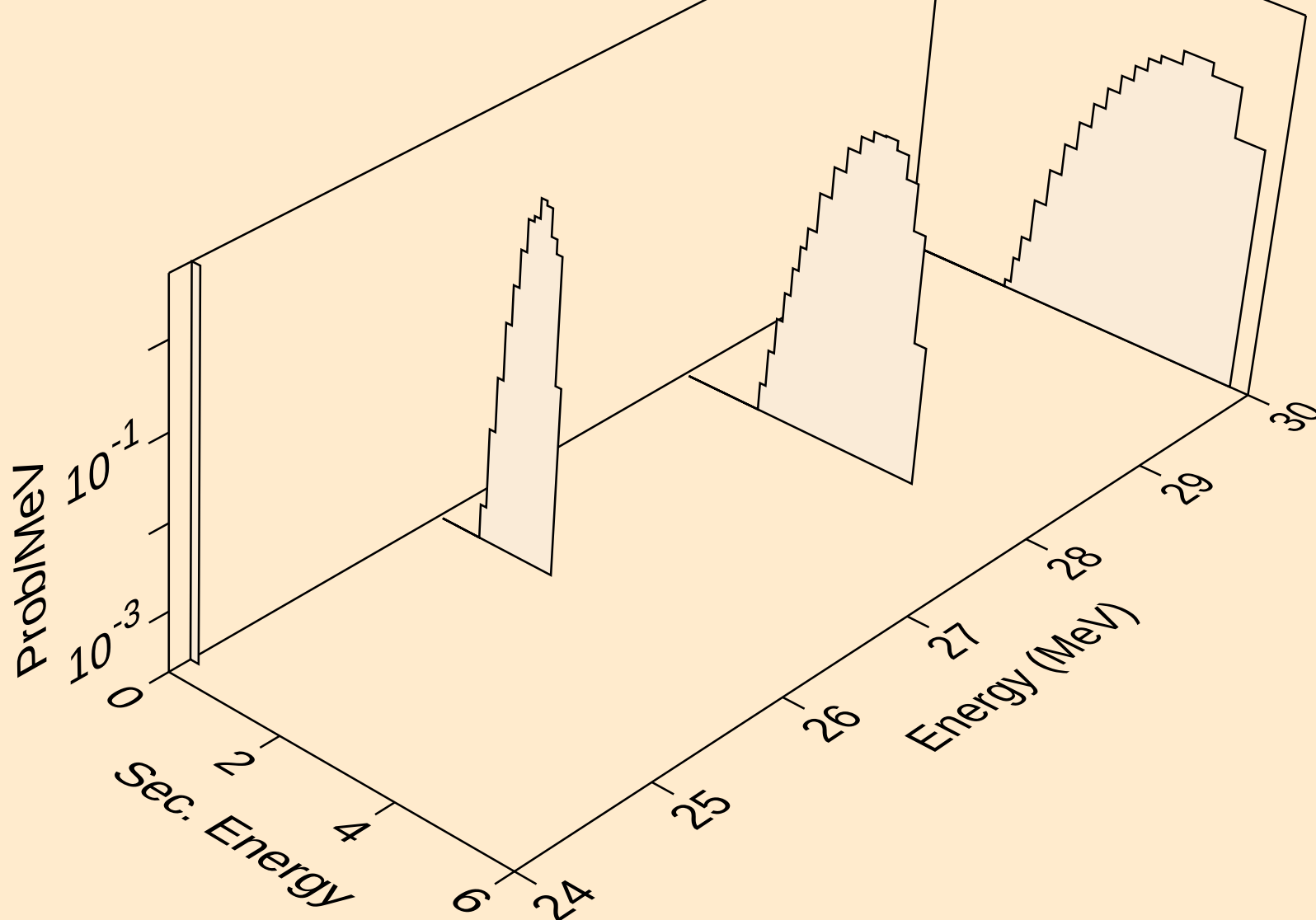




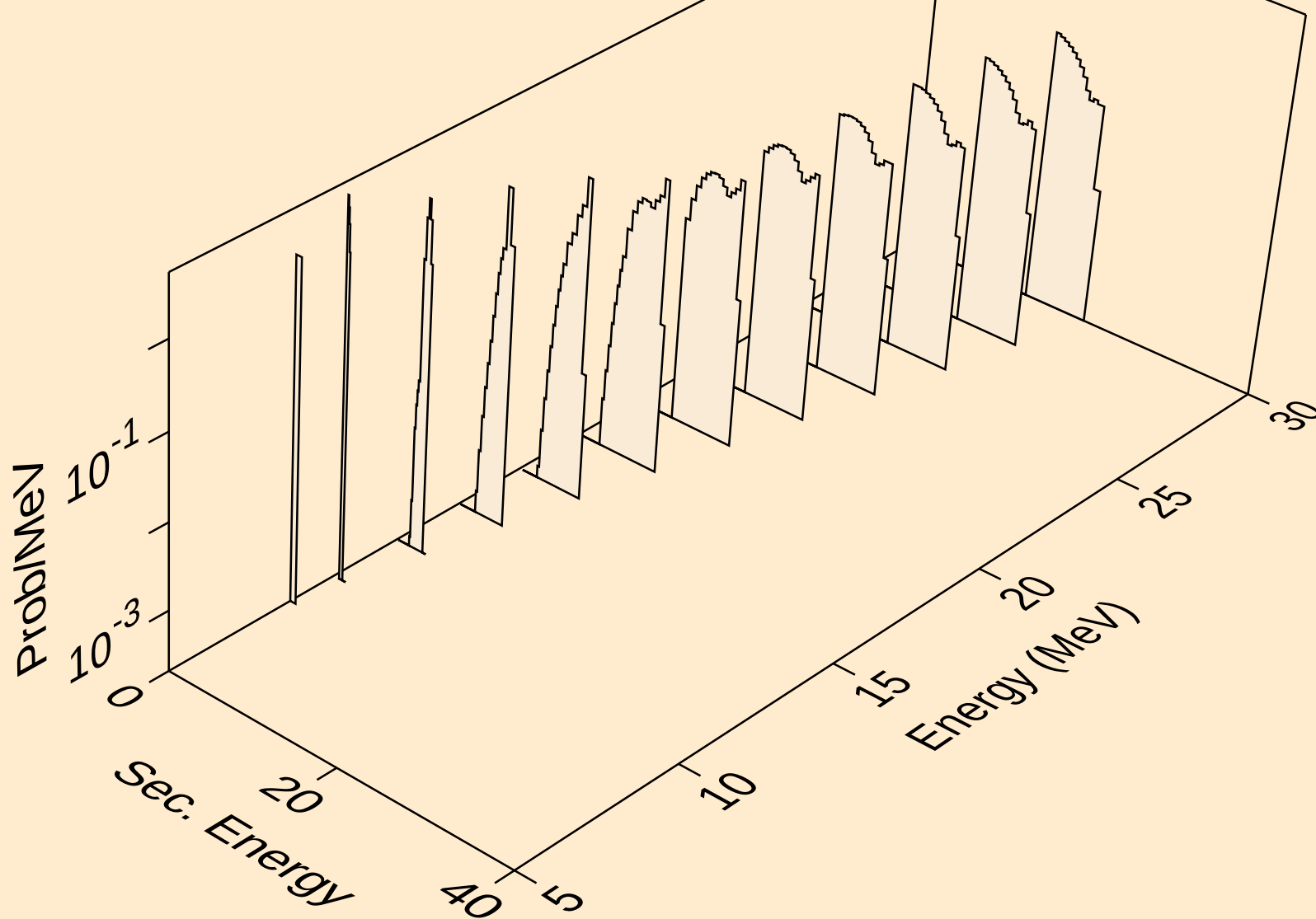
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



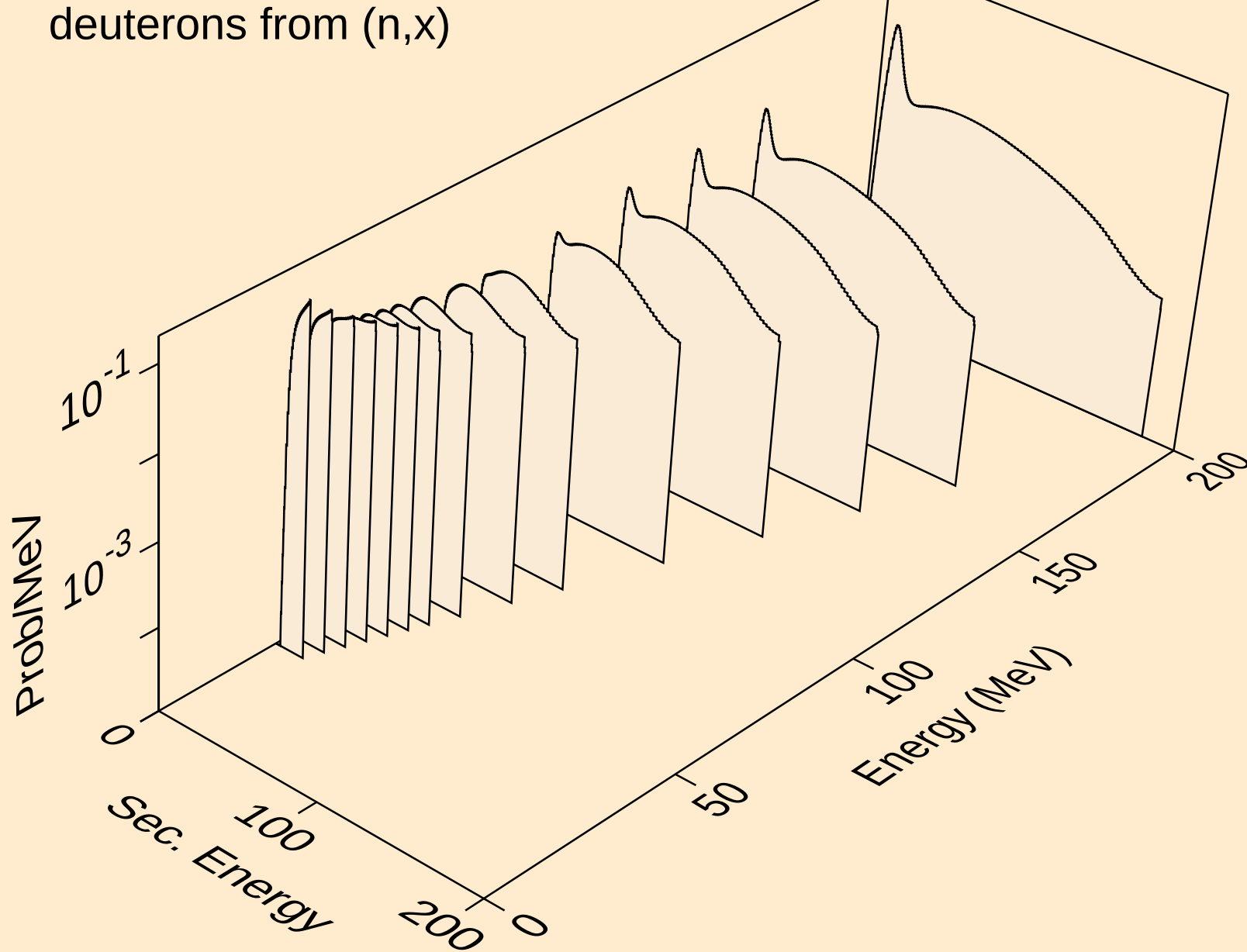
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,3np)



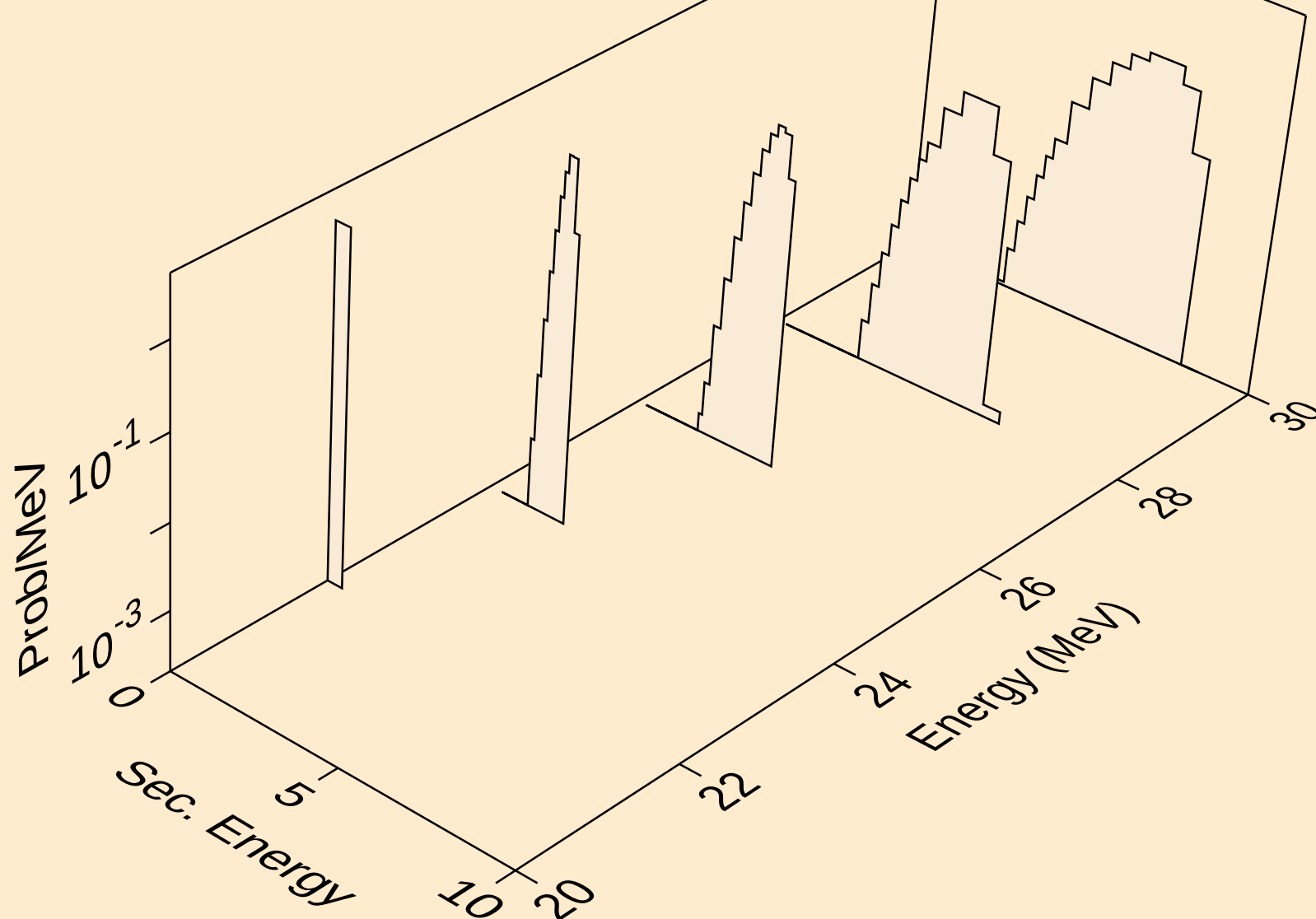
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)



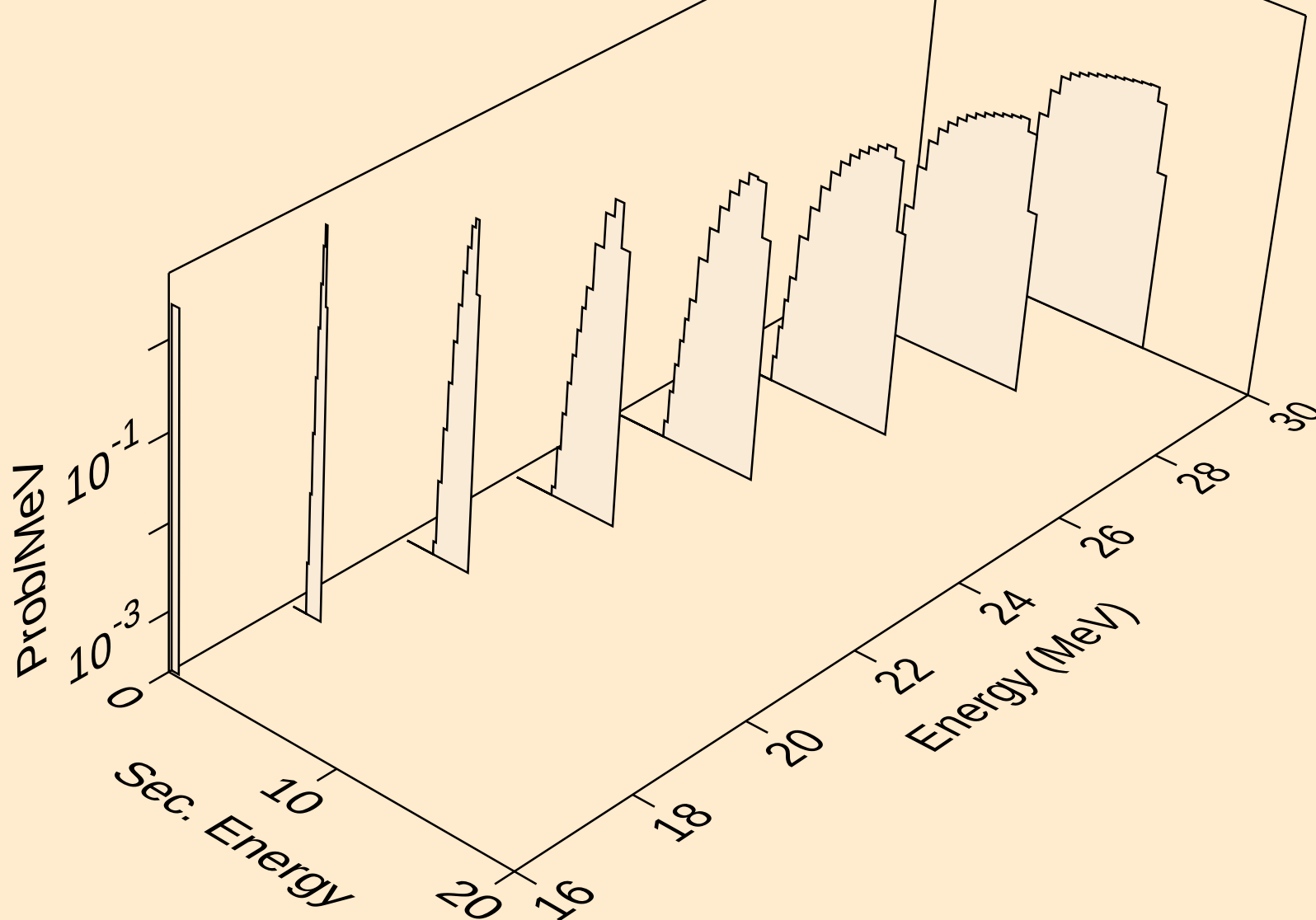
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)



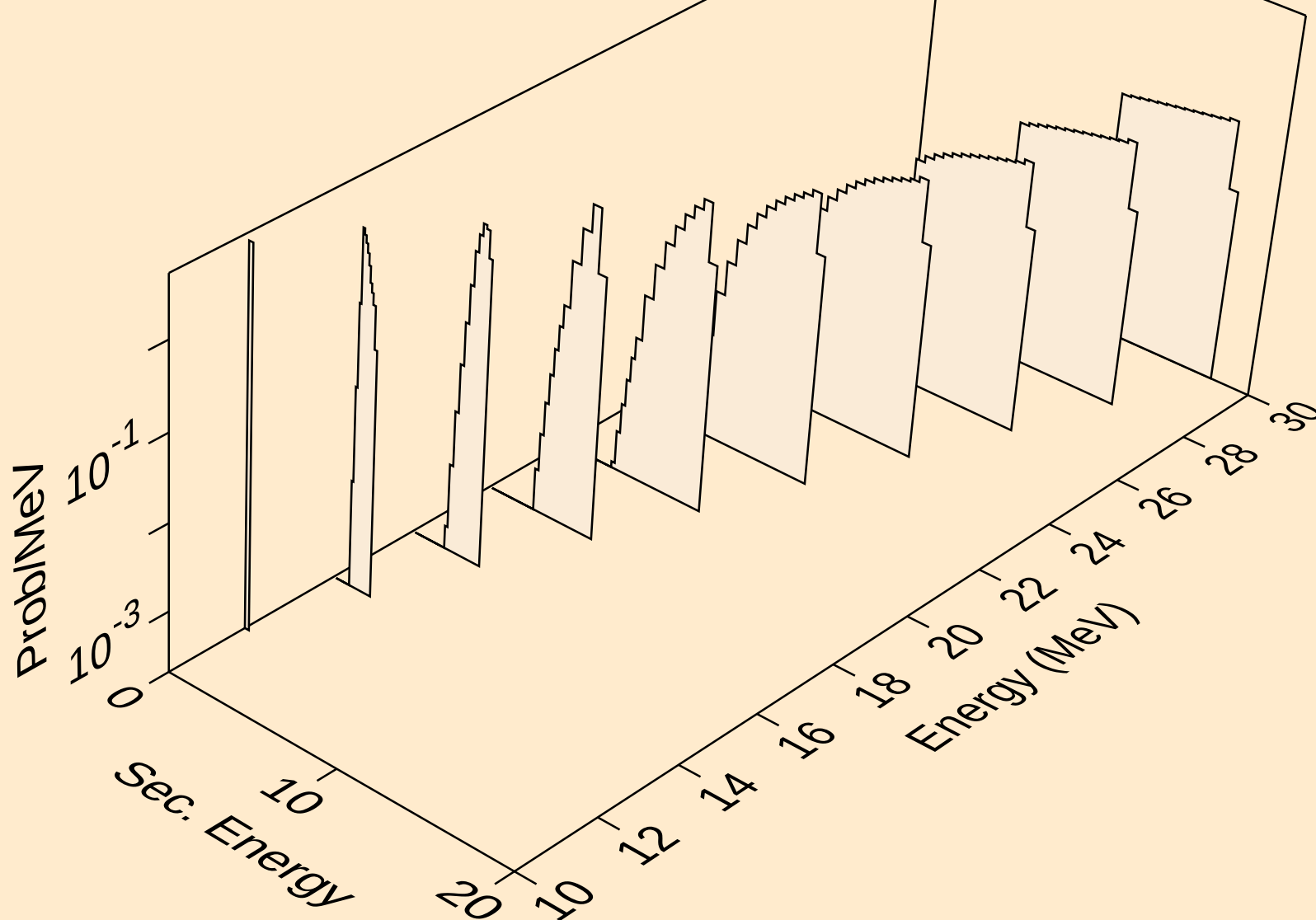
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,2nd)



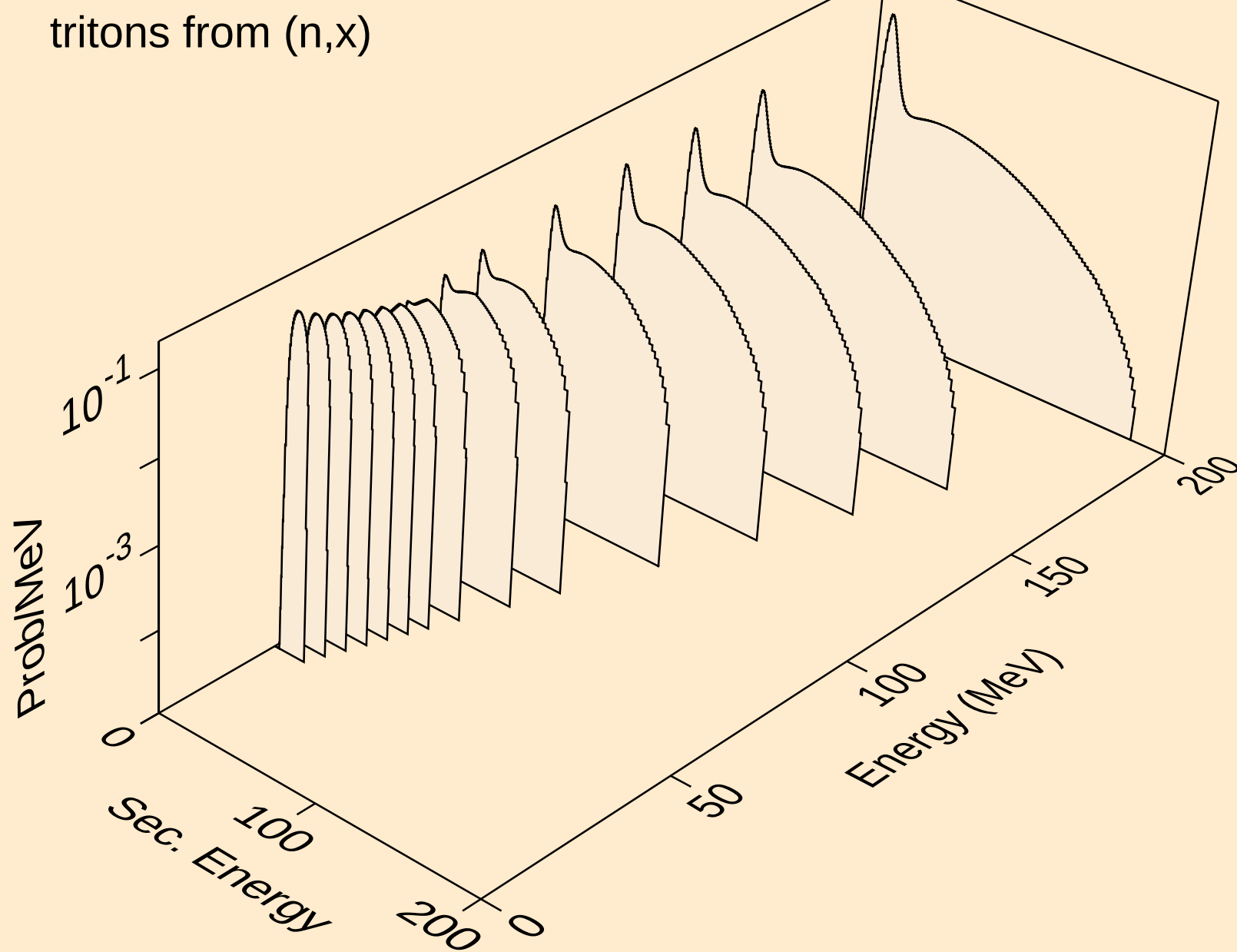
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,d)

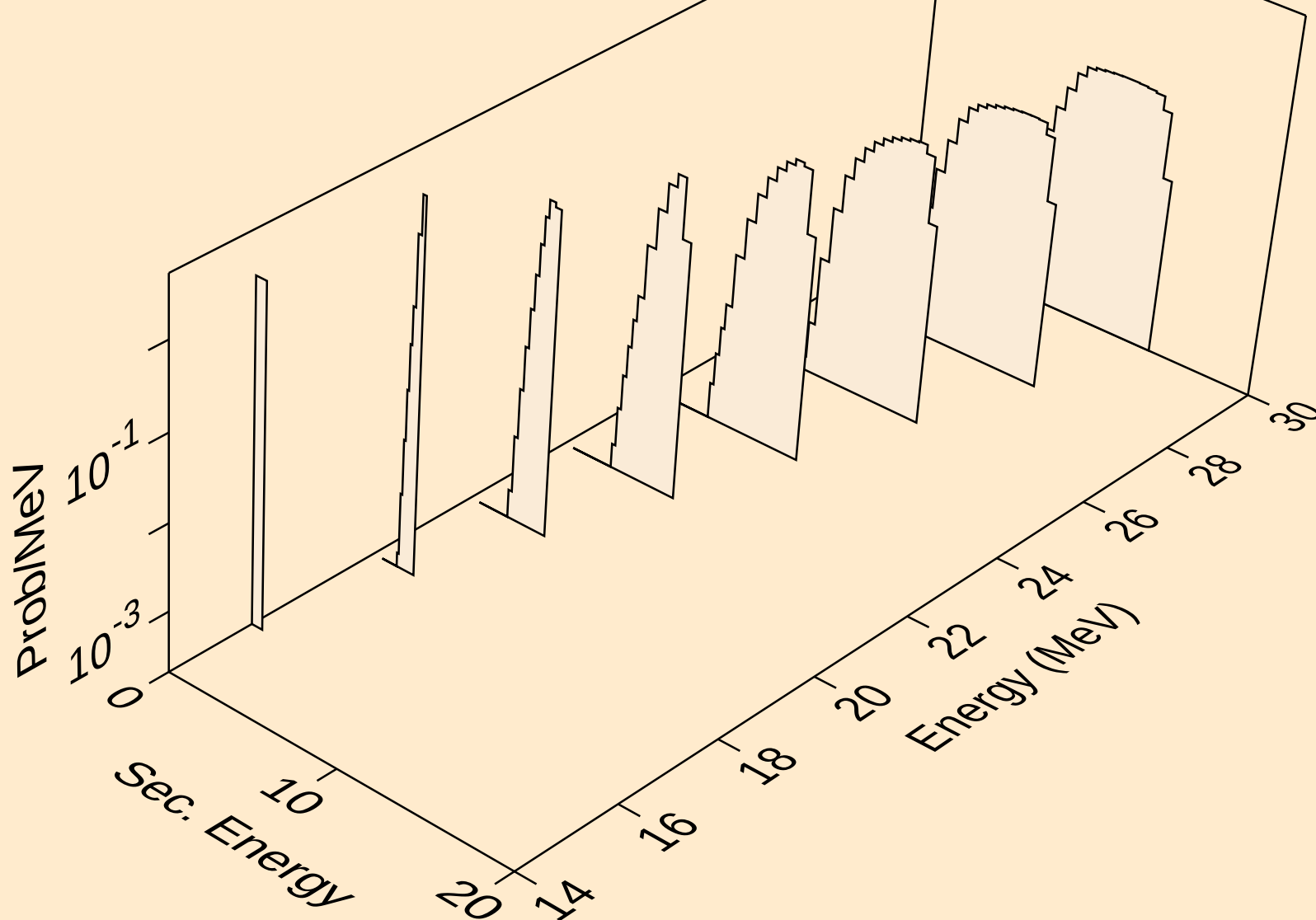


ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)

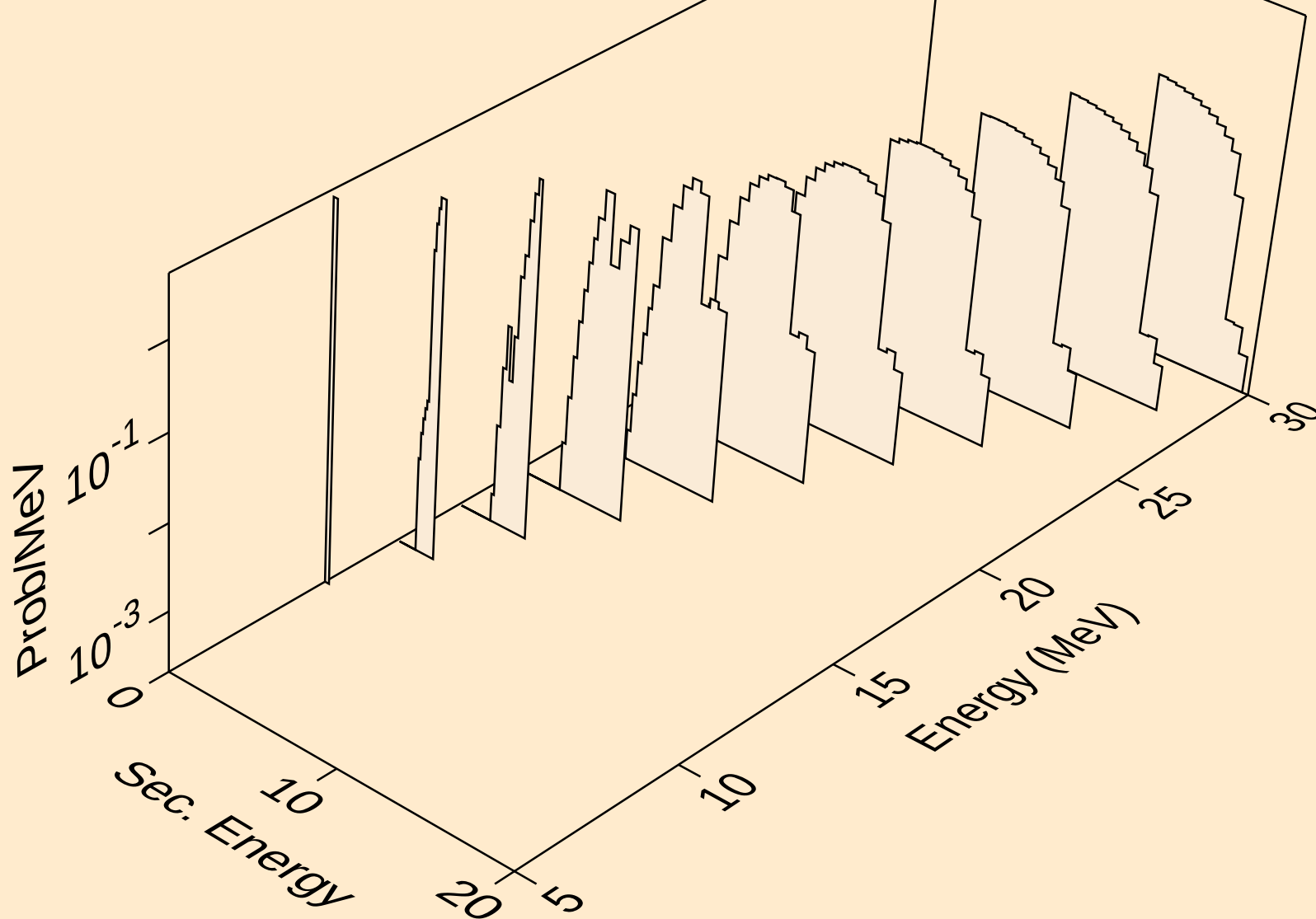




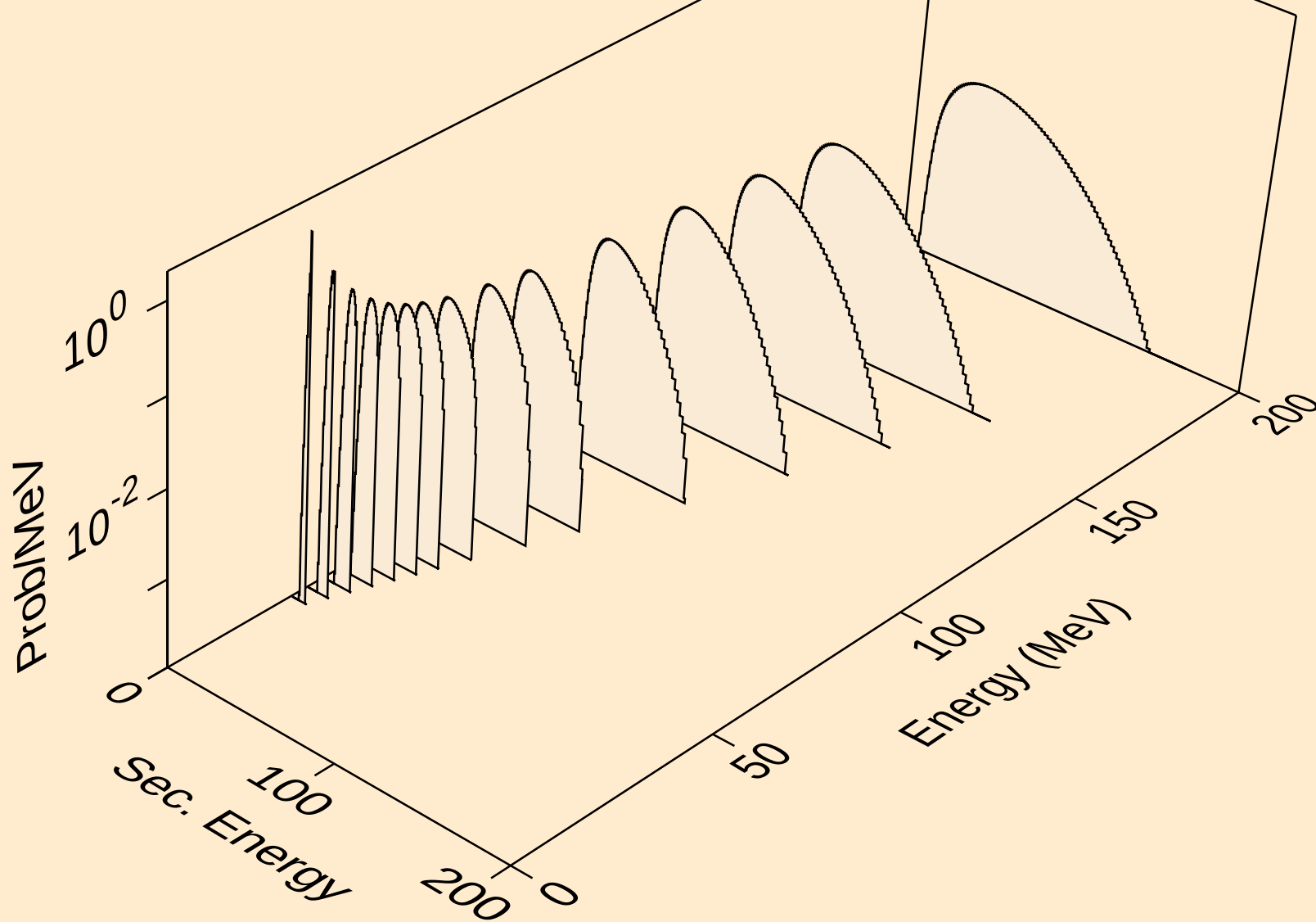
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



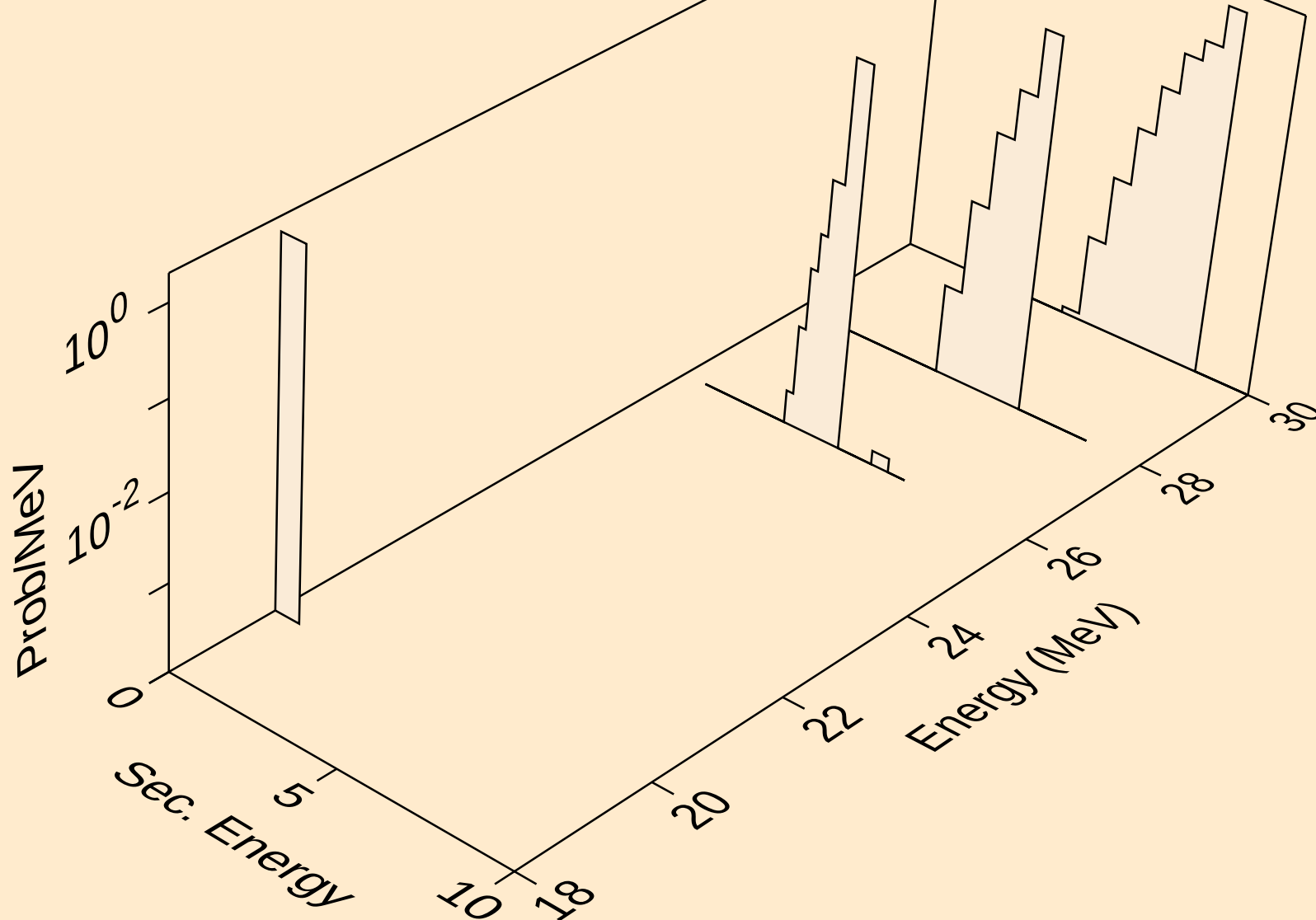
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,t)



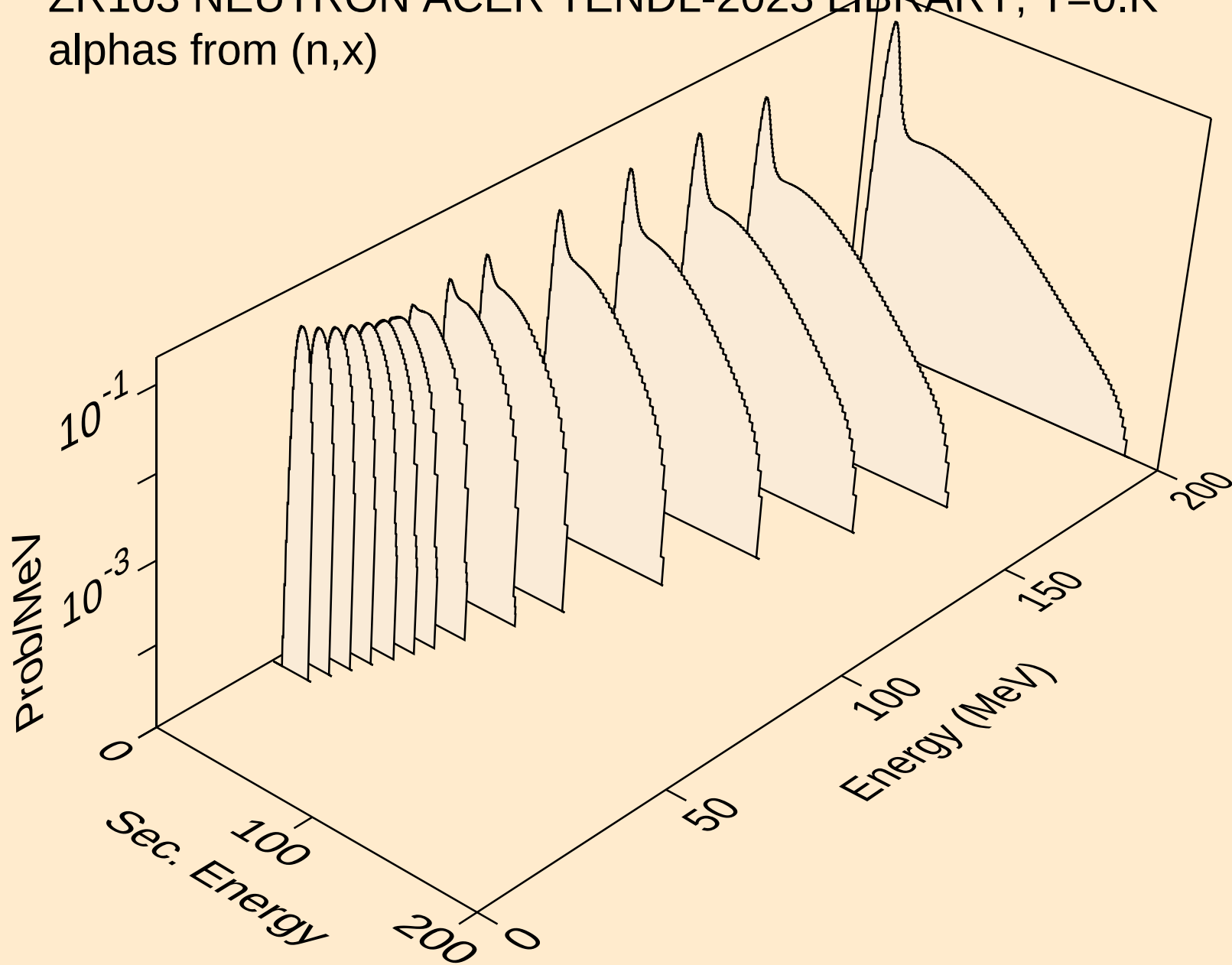
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



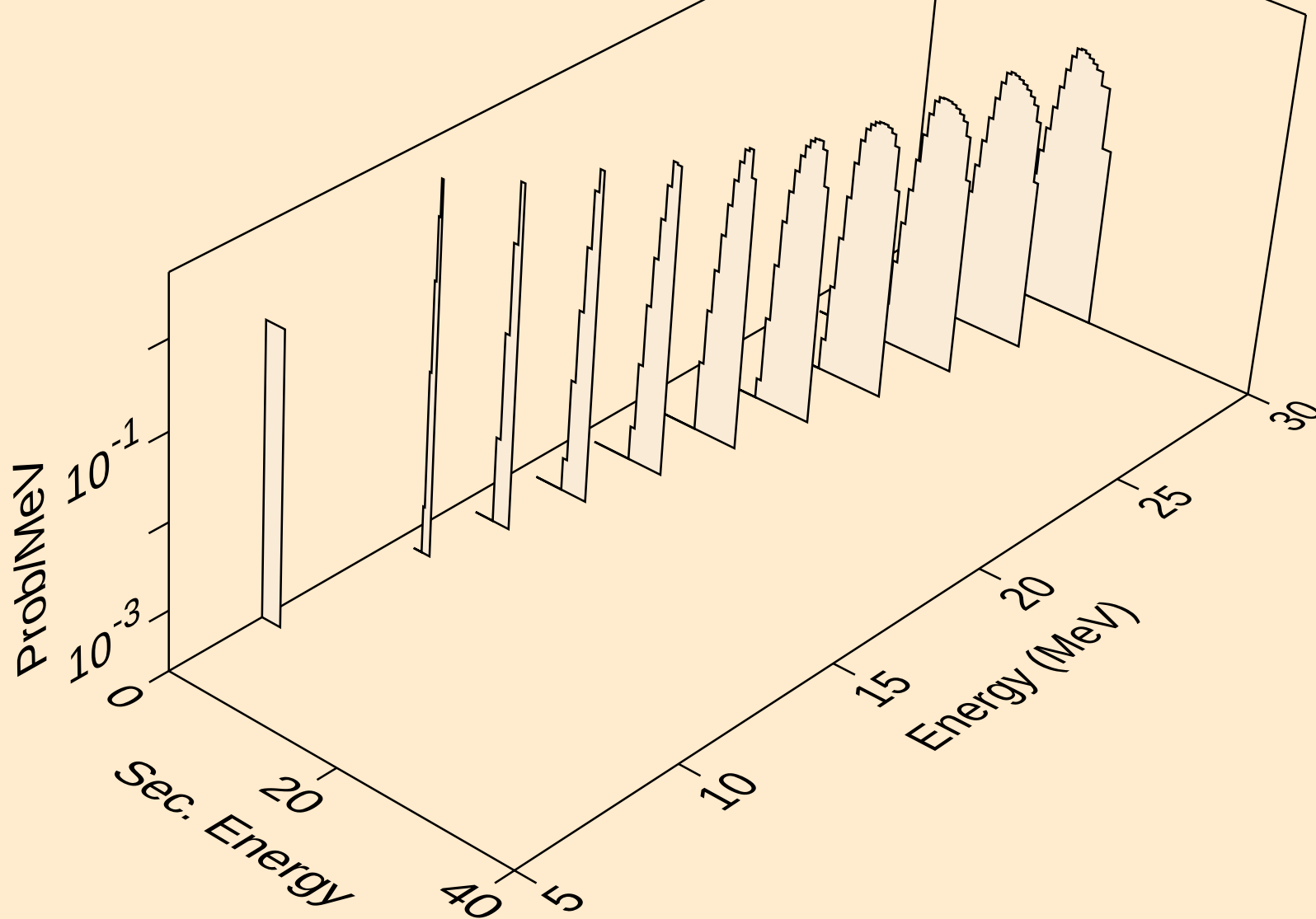
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)



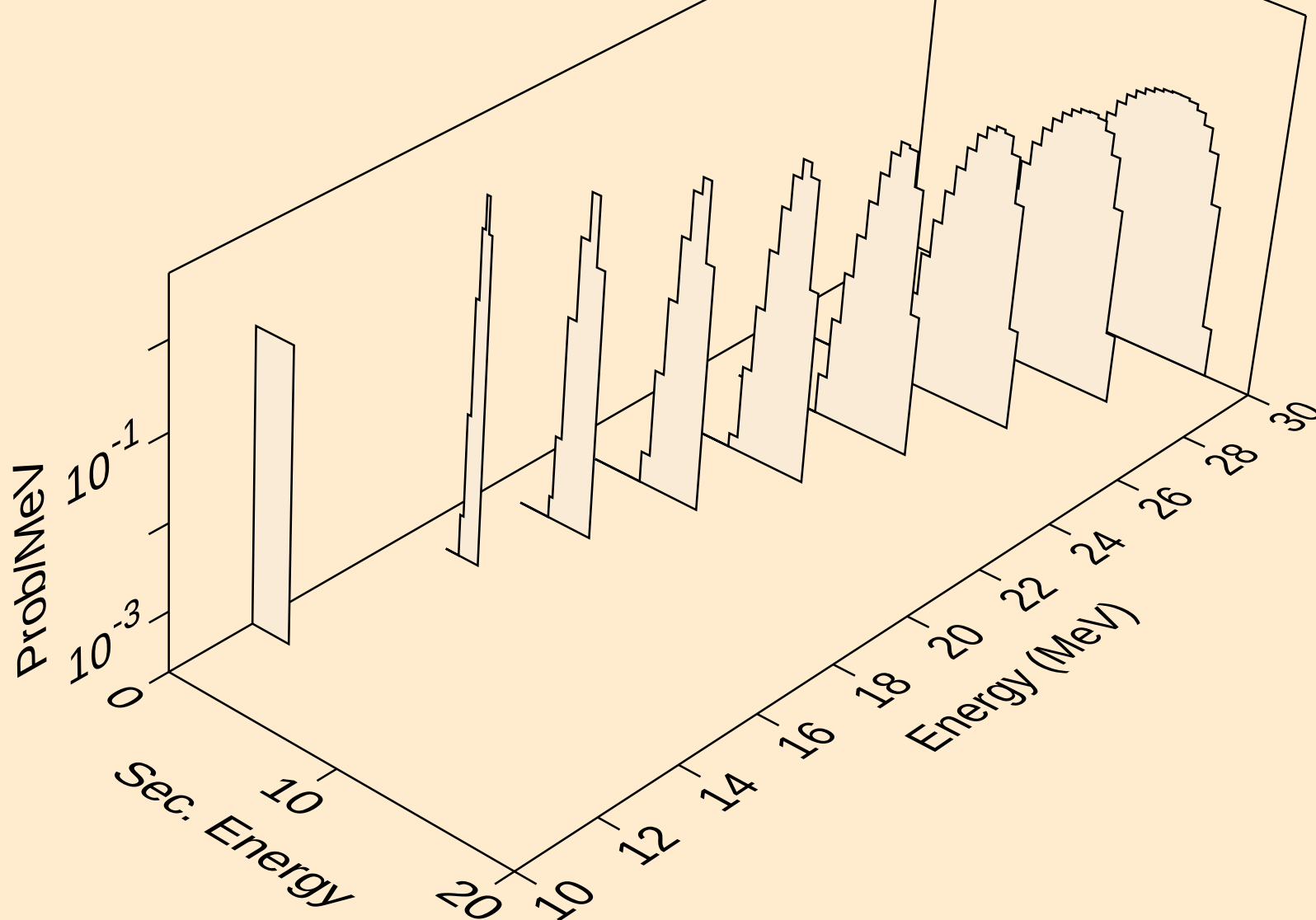
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



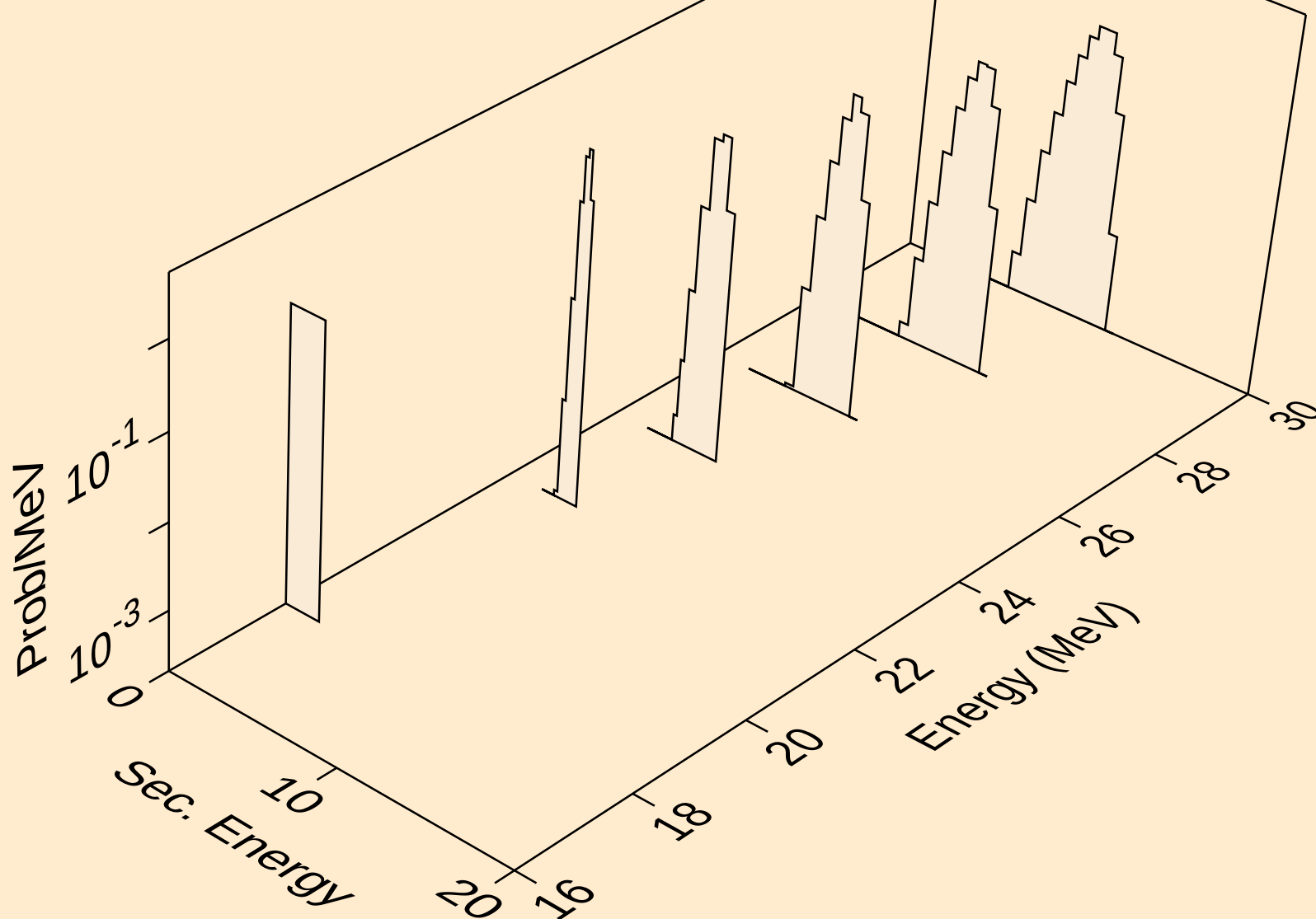
ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a



ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3n)a





ZR103 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)

