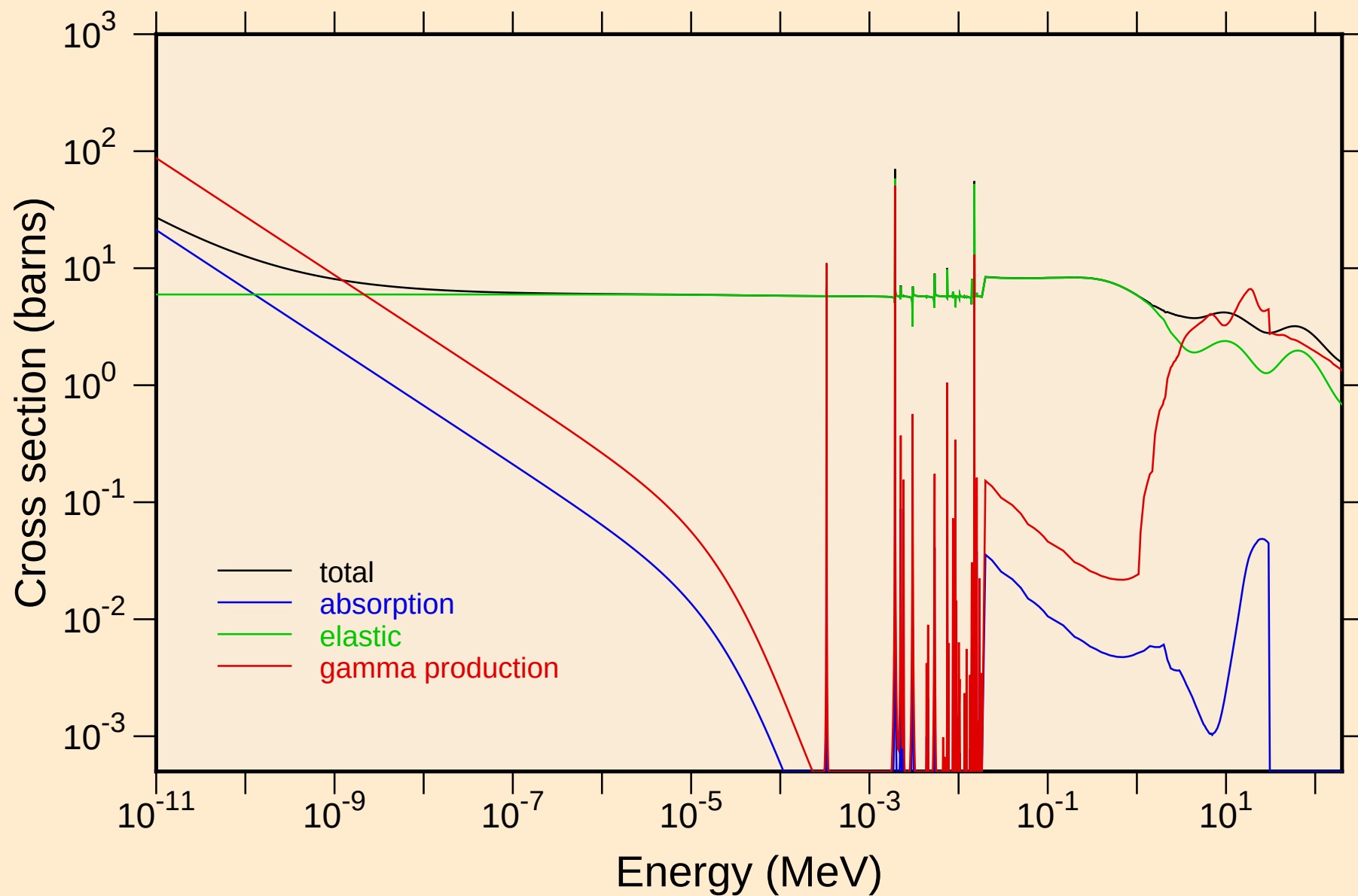
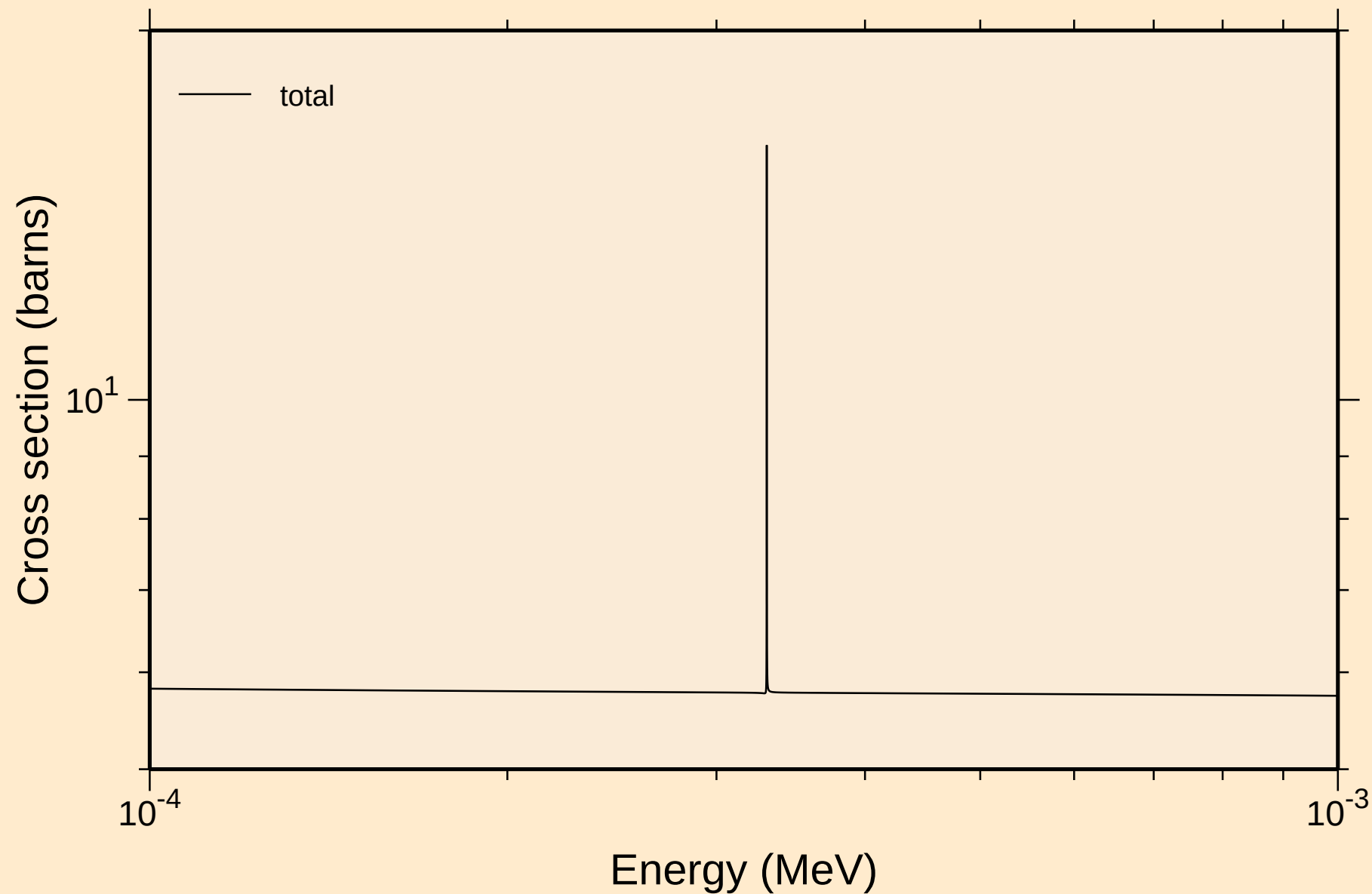


# SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

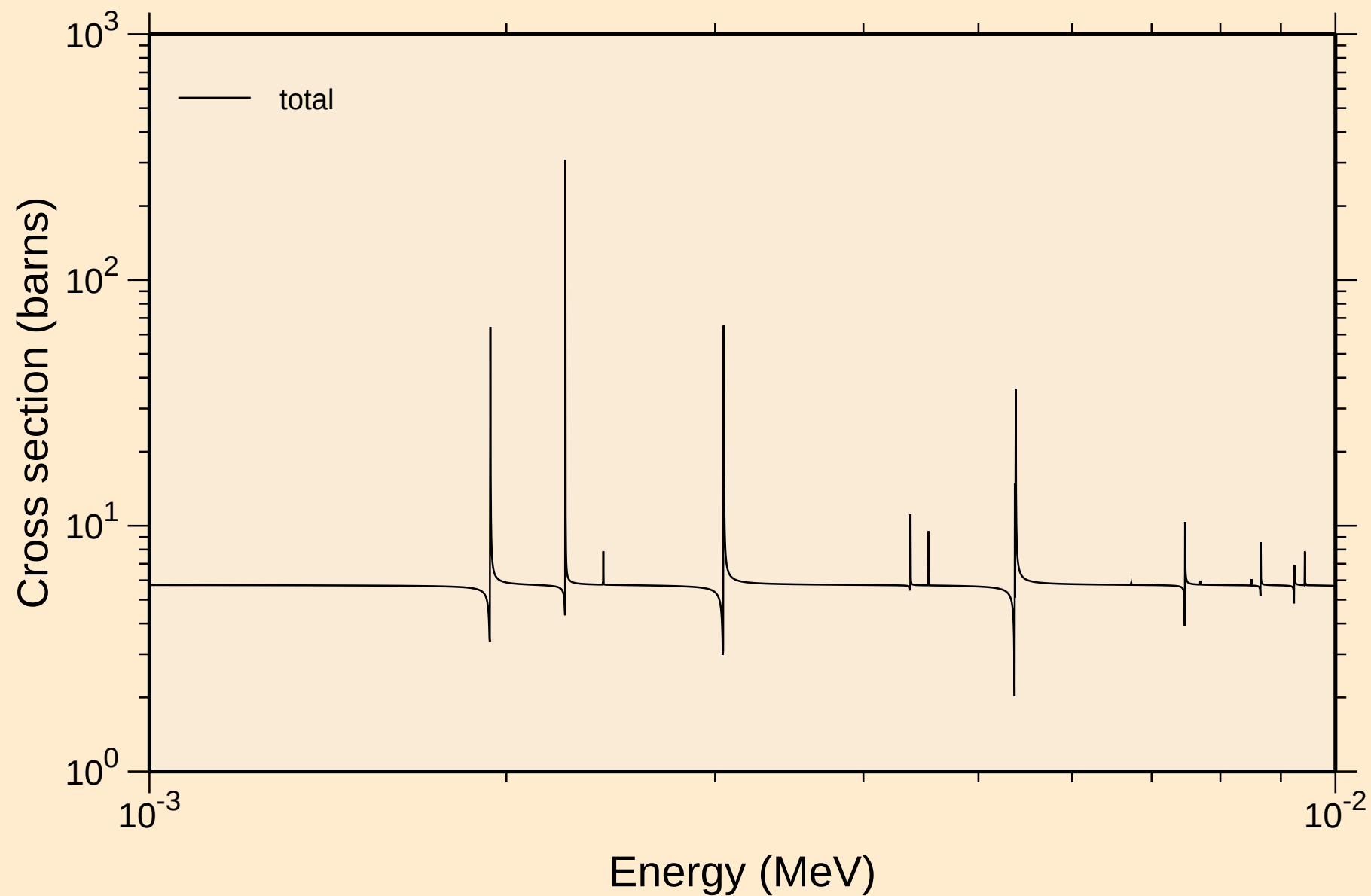
## Principal cross sections



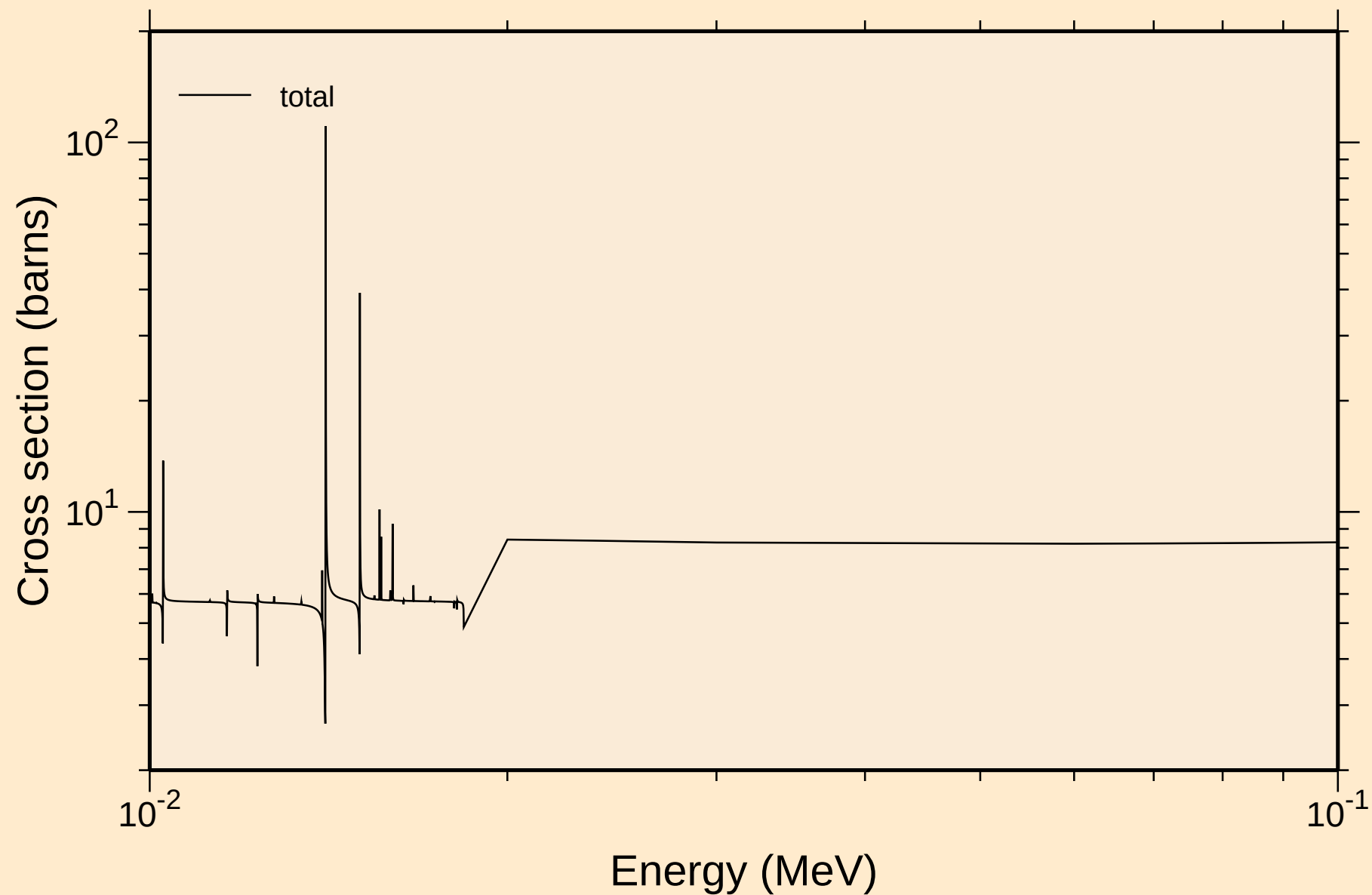
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



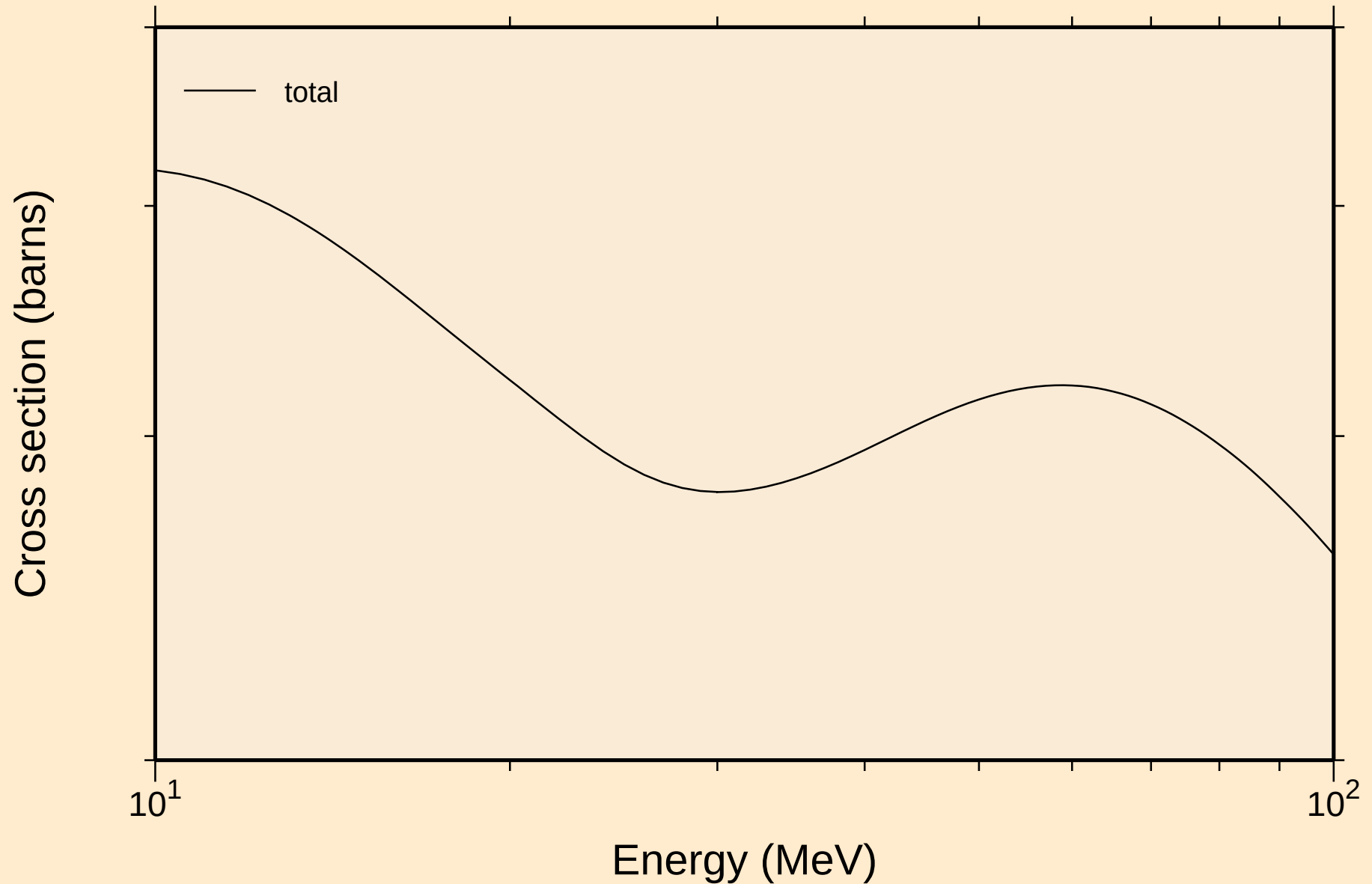
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



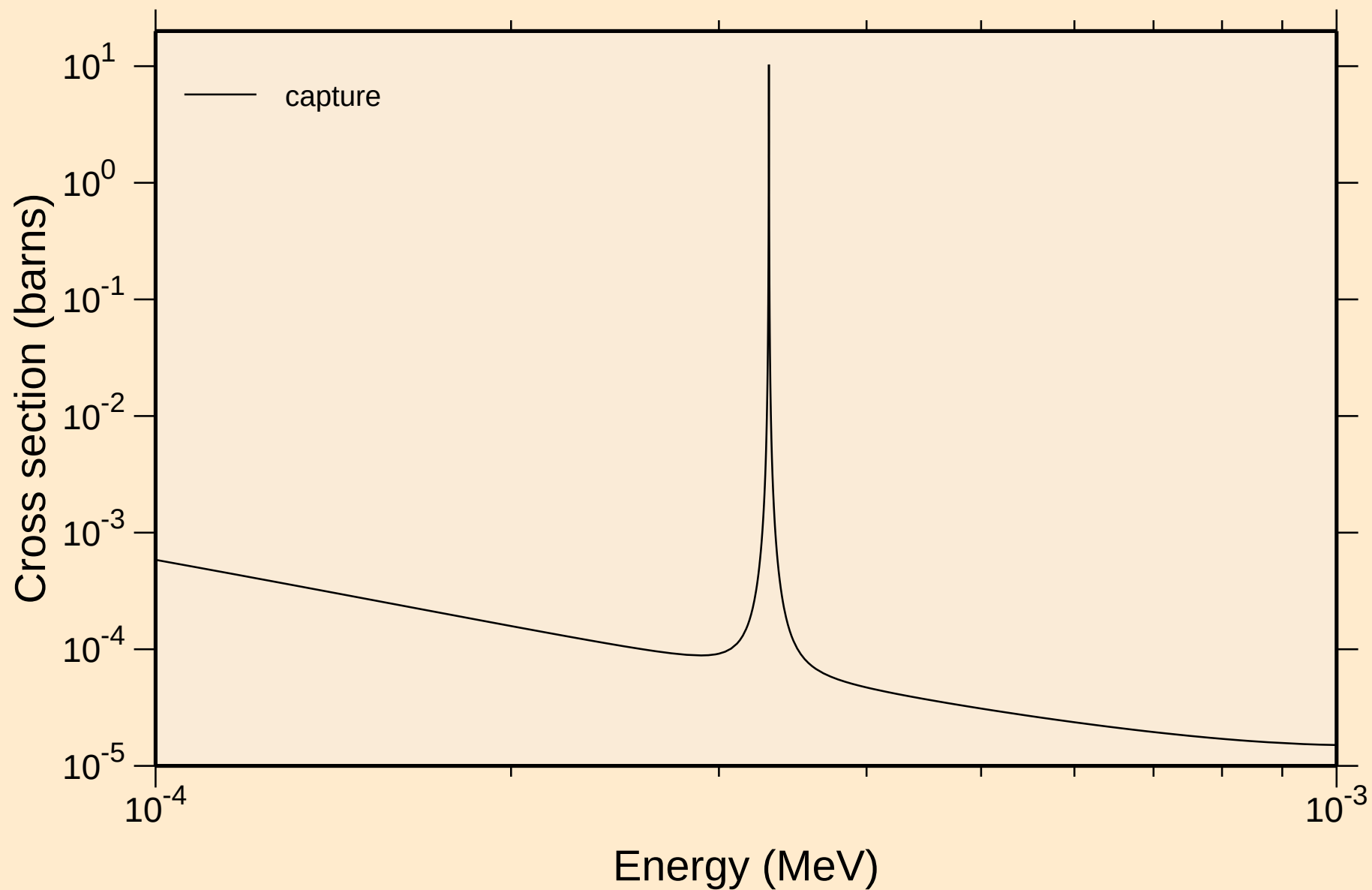
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



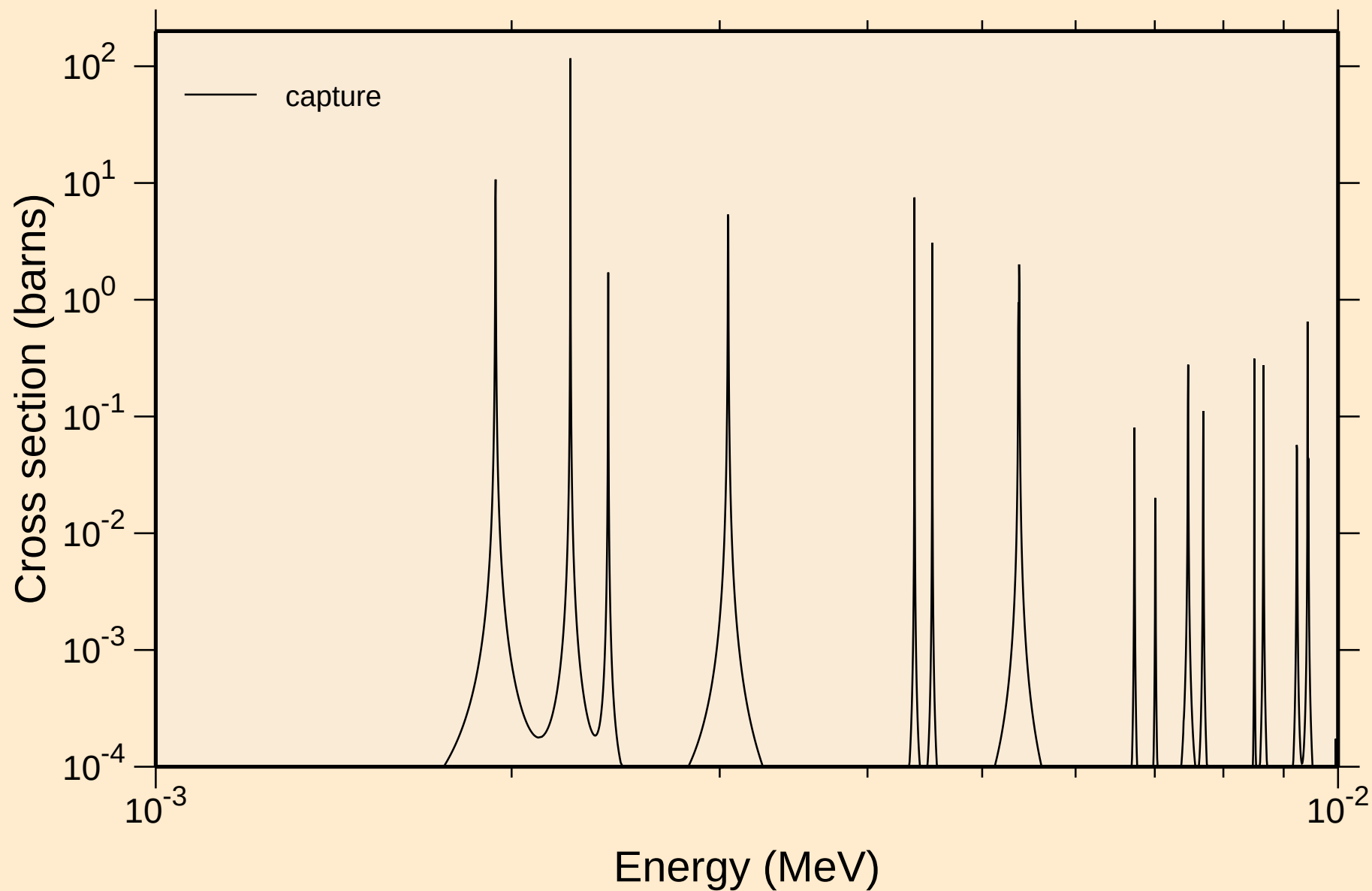
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



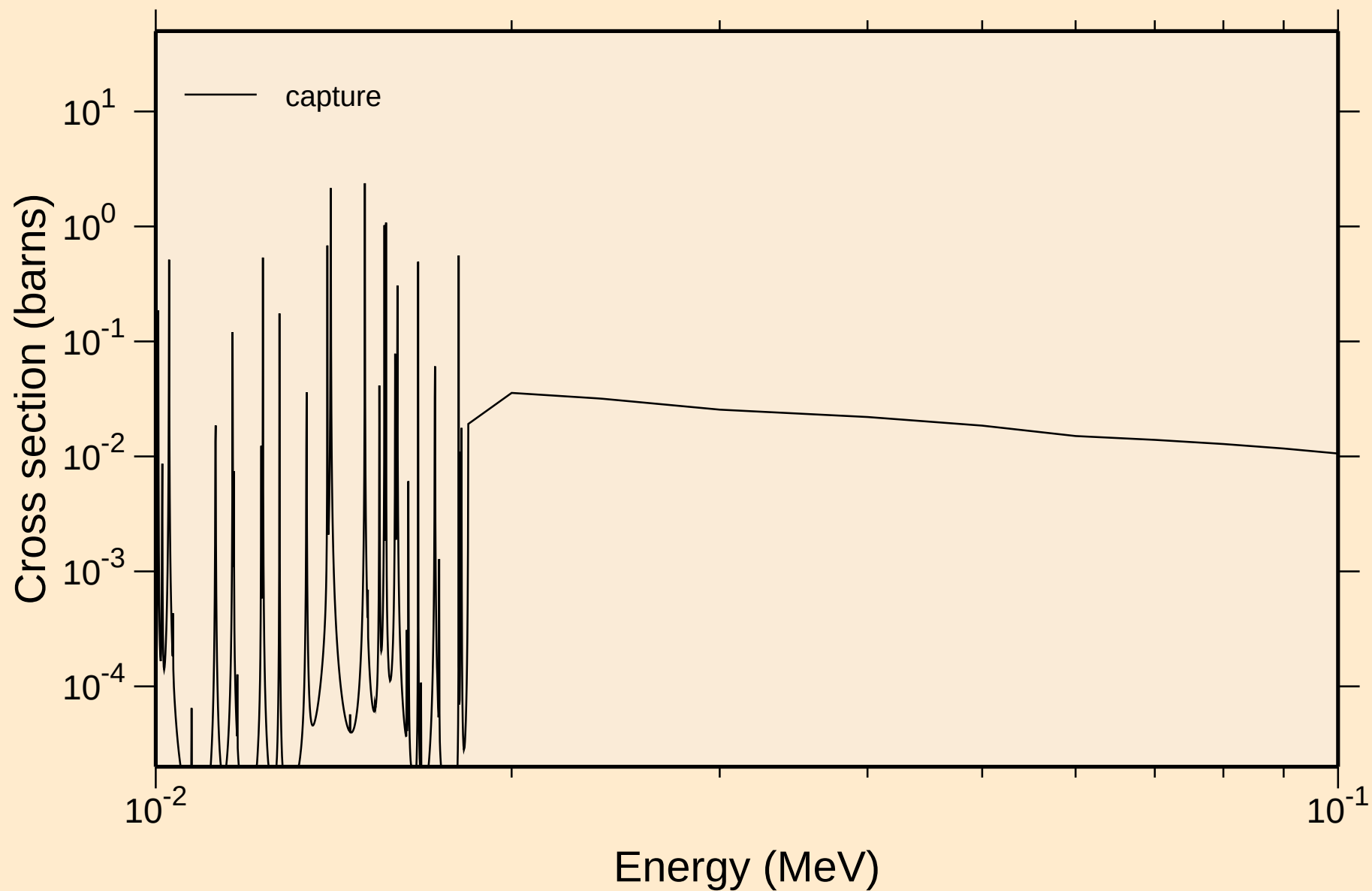
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

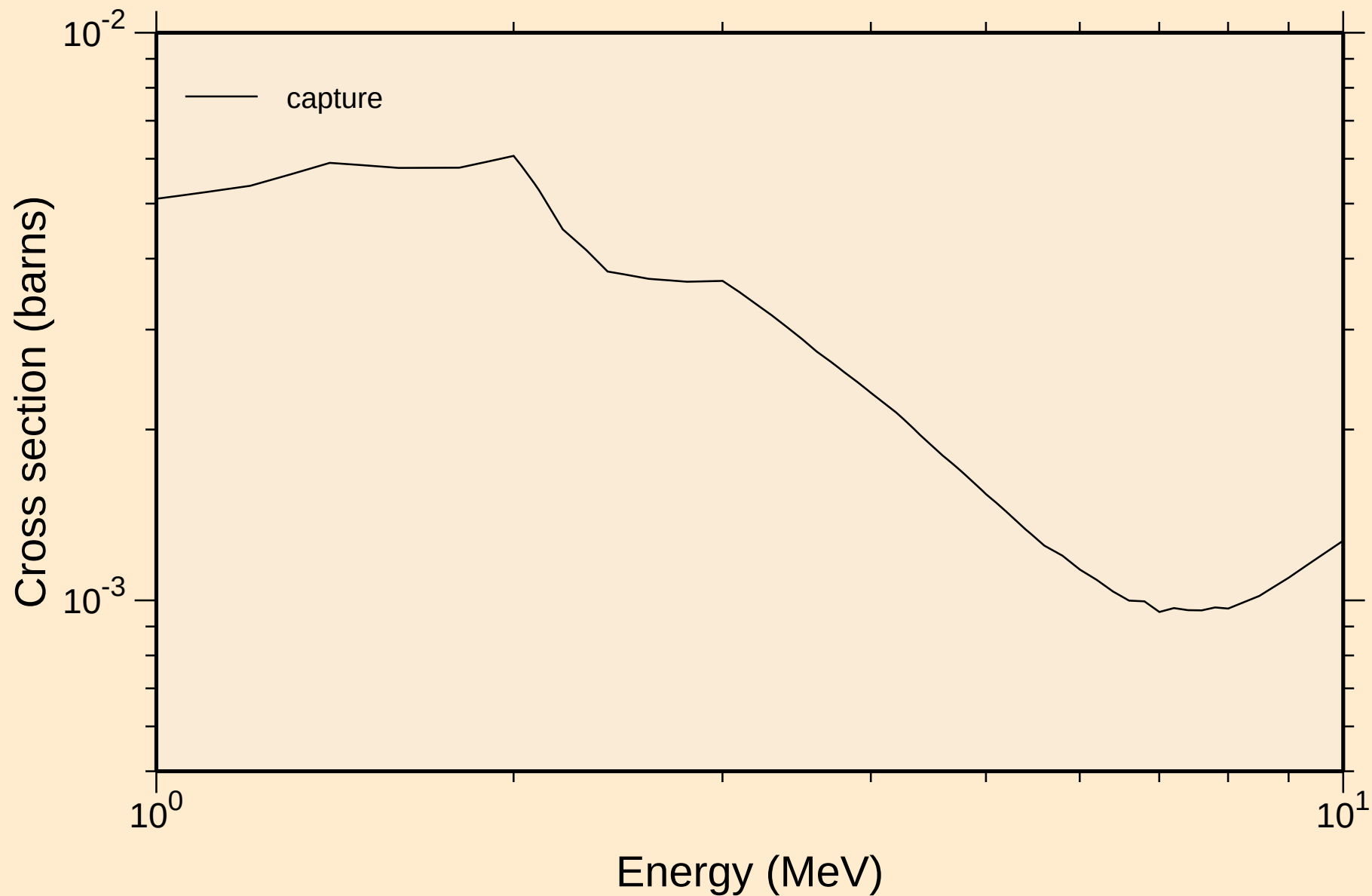


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

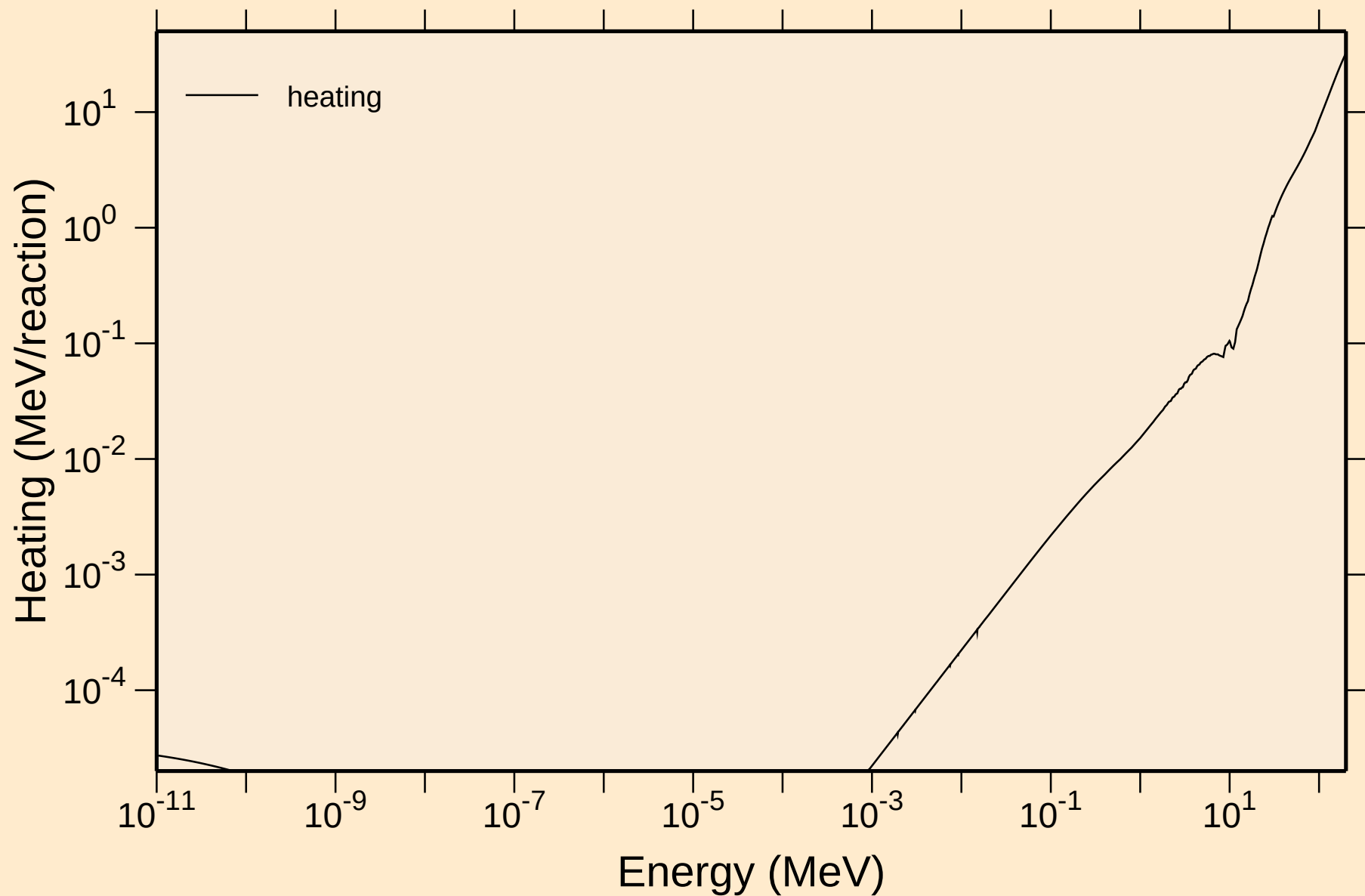




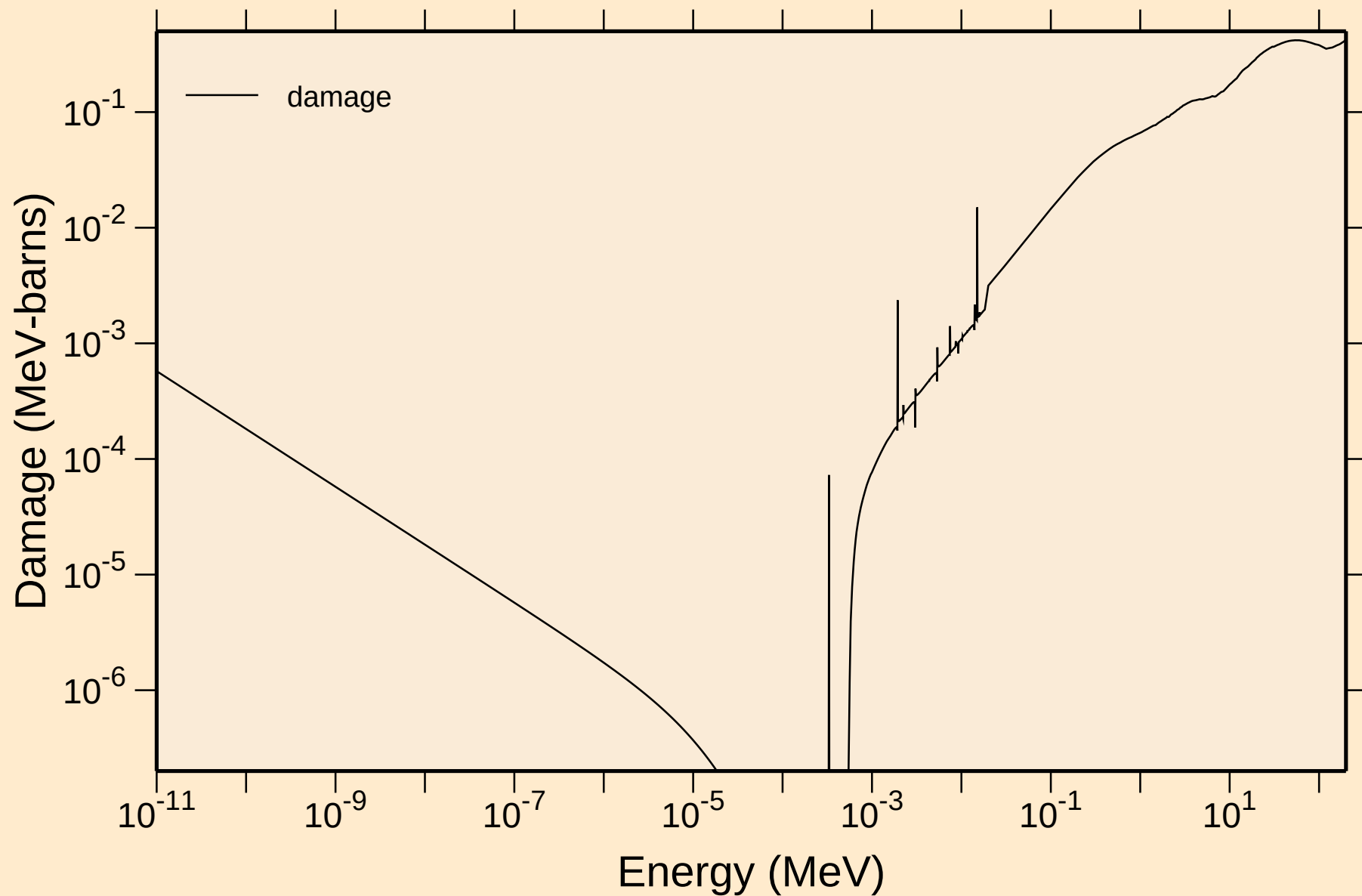
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



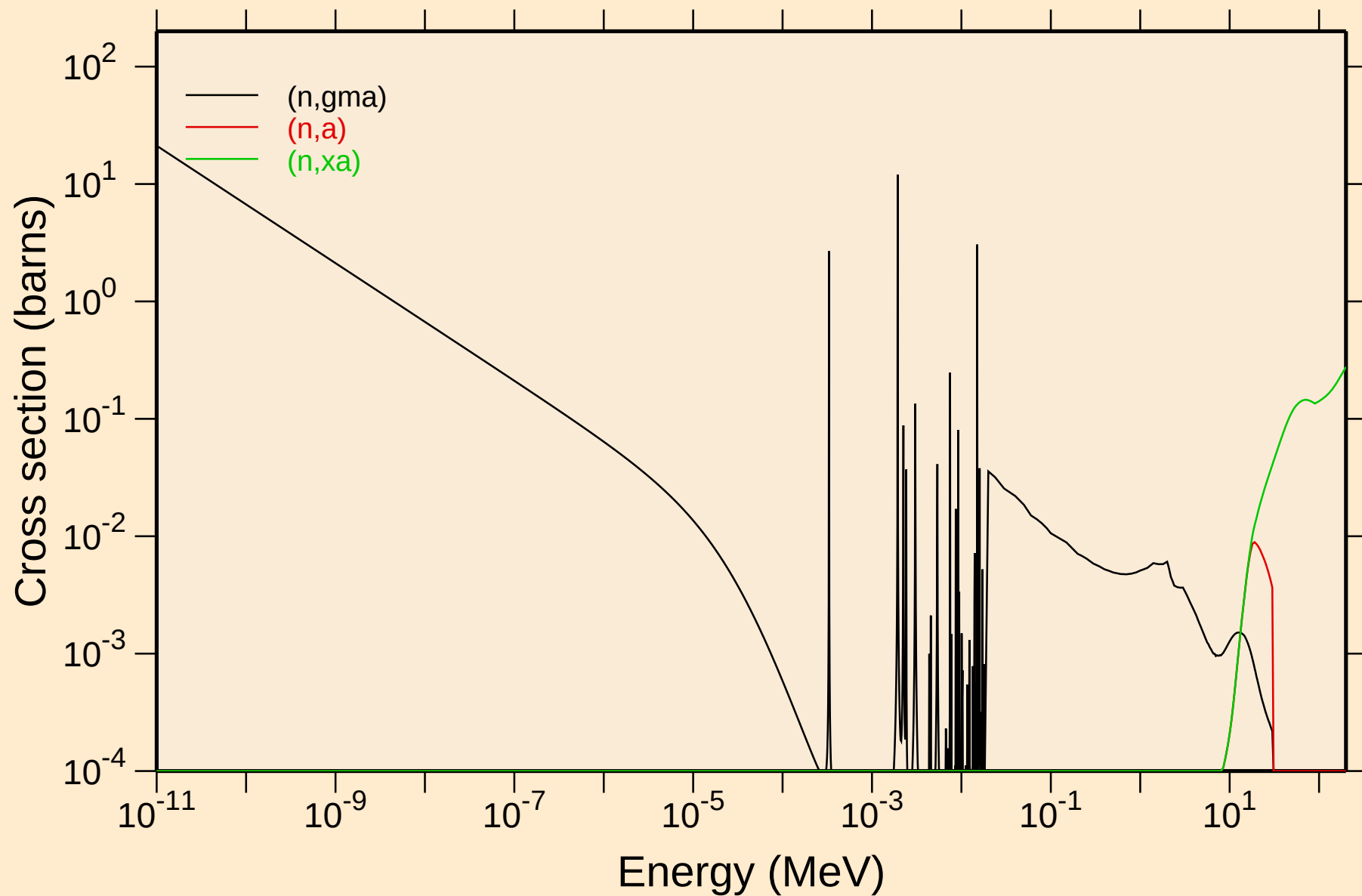
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

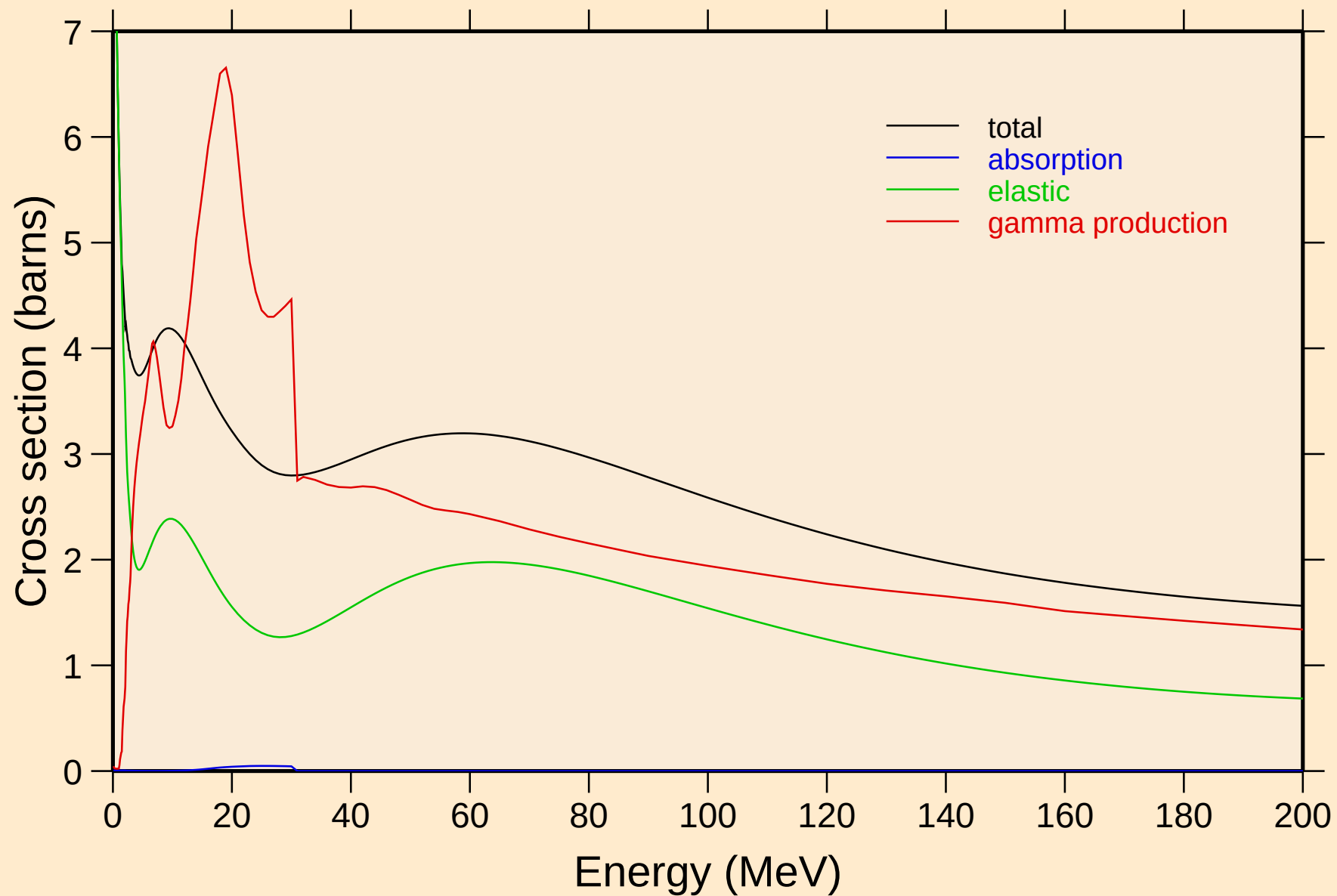


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



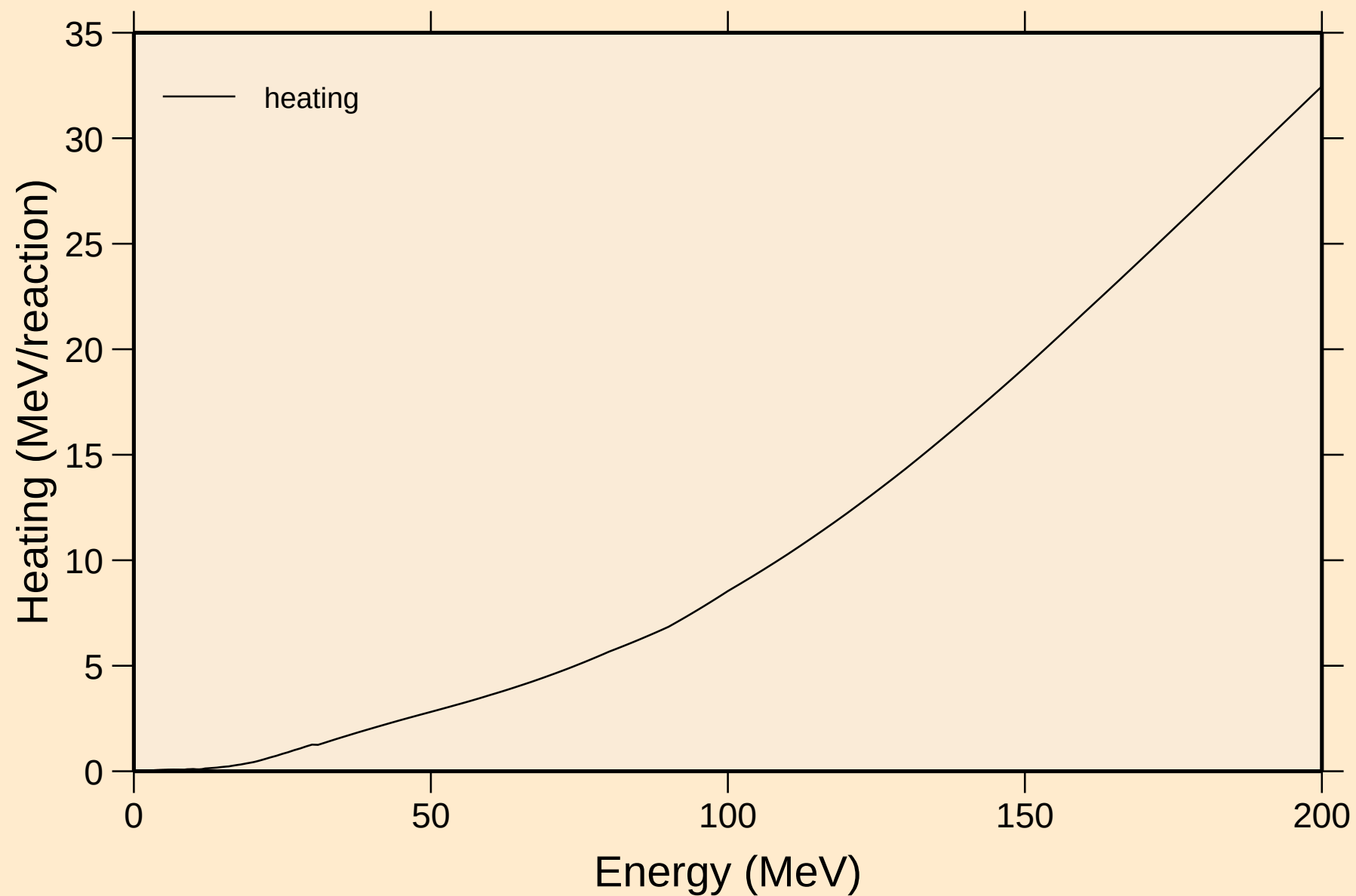
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## Principal cross sections



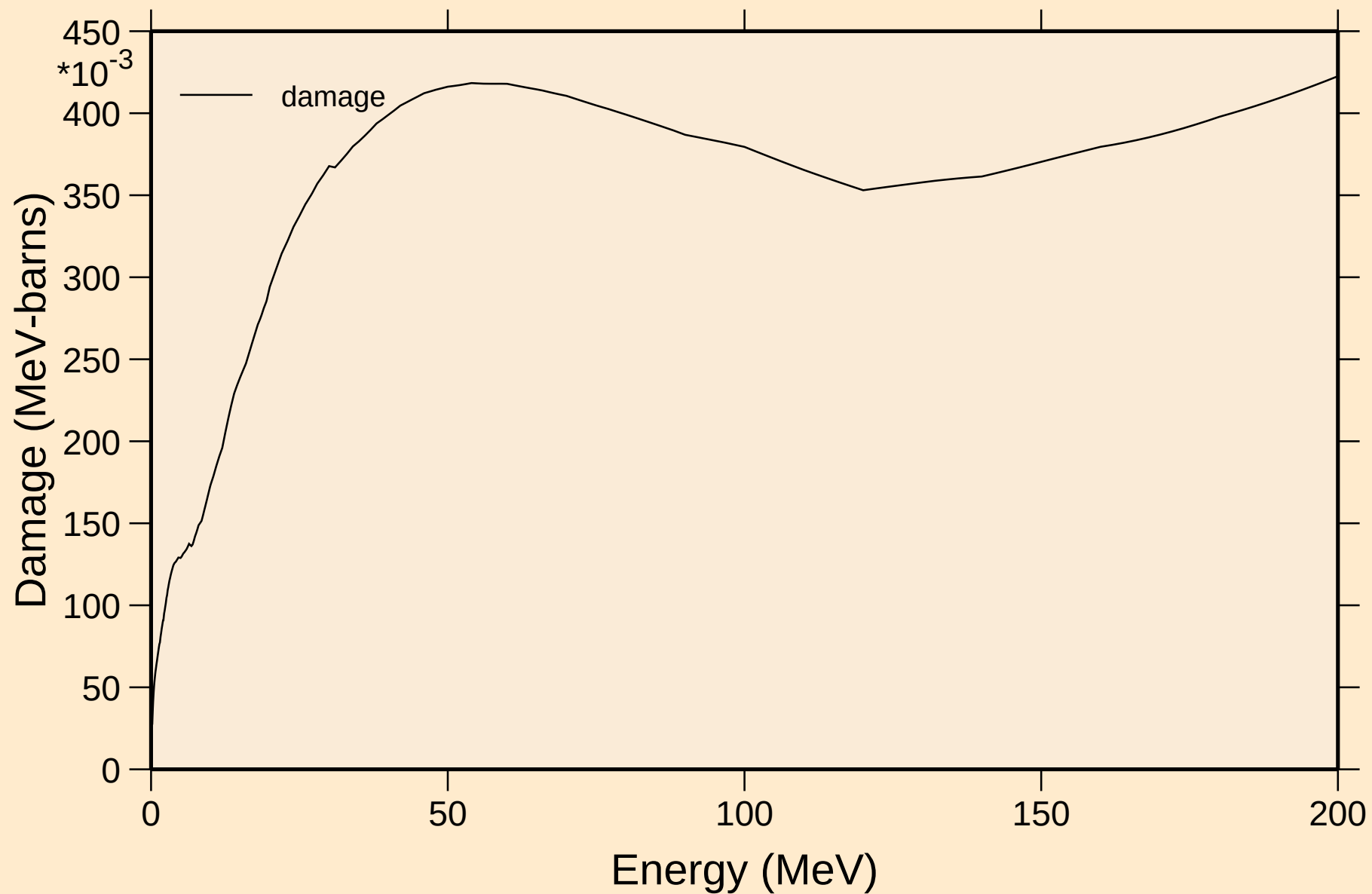
# SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Heating

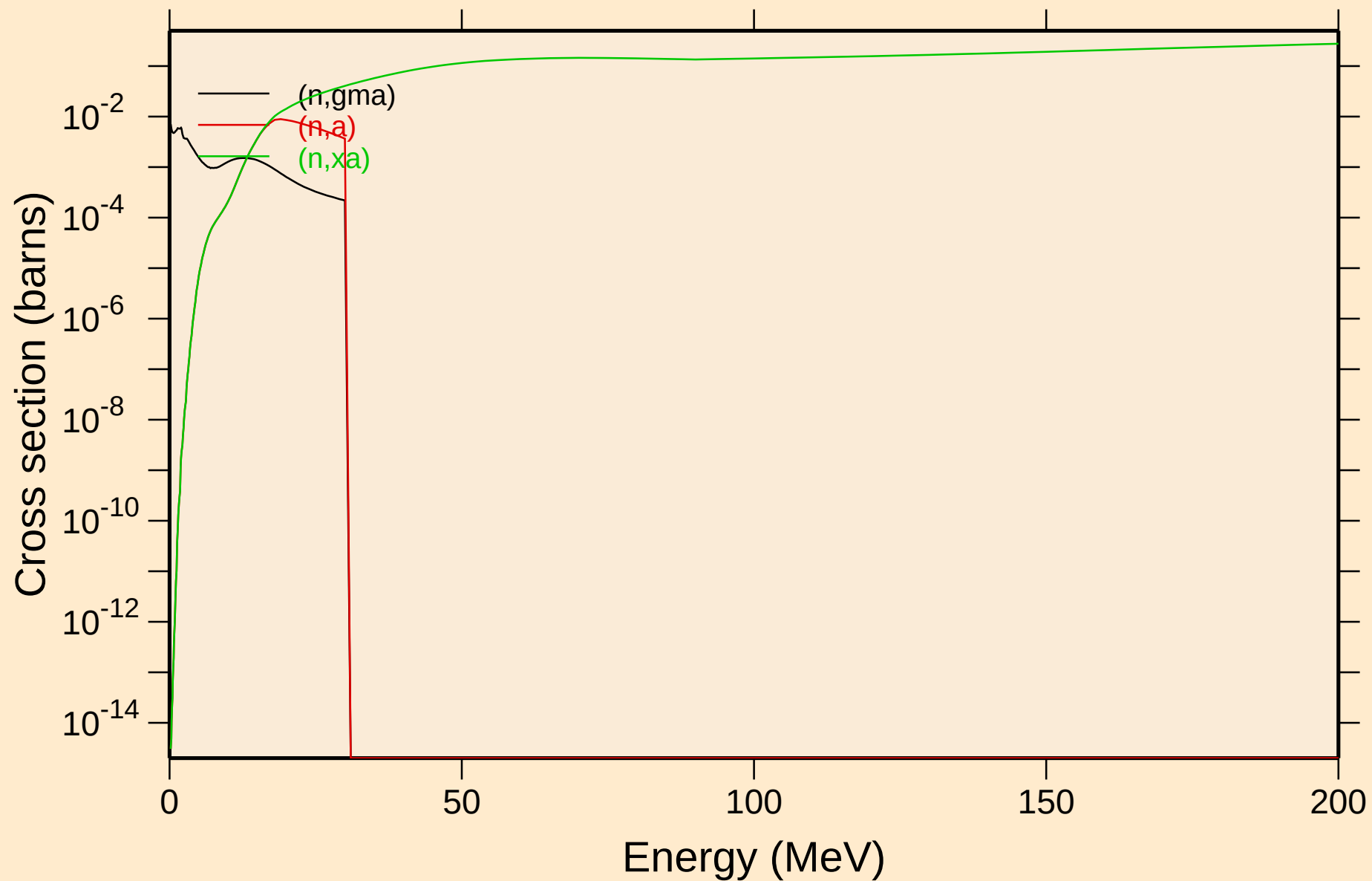


# SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Damage

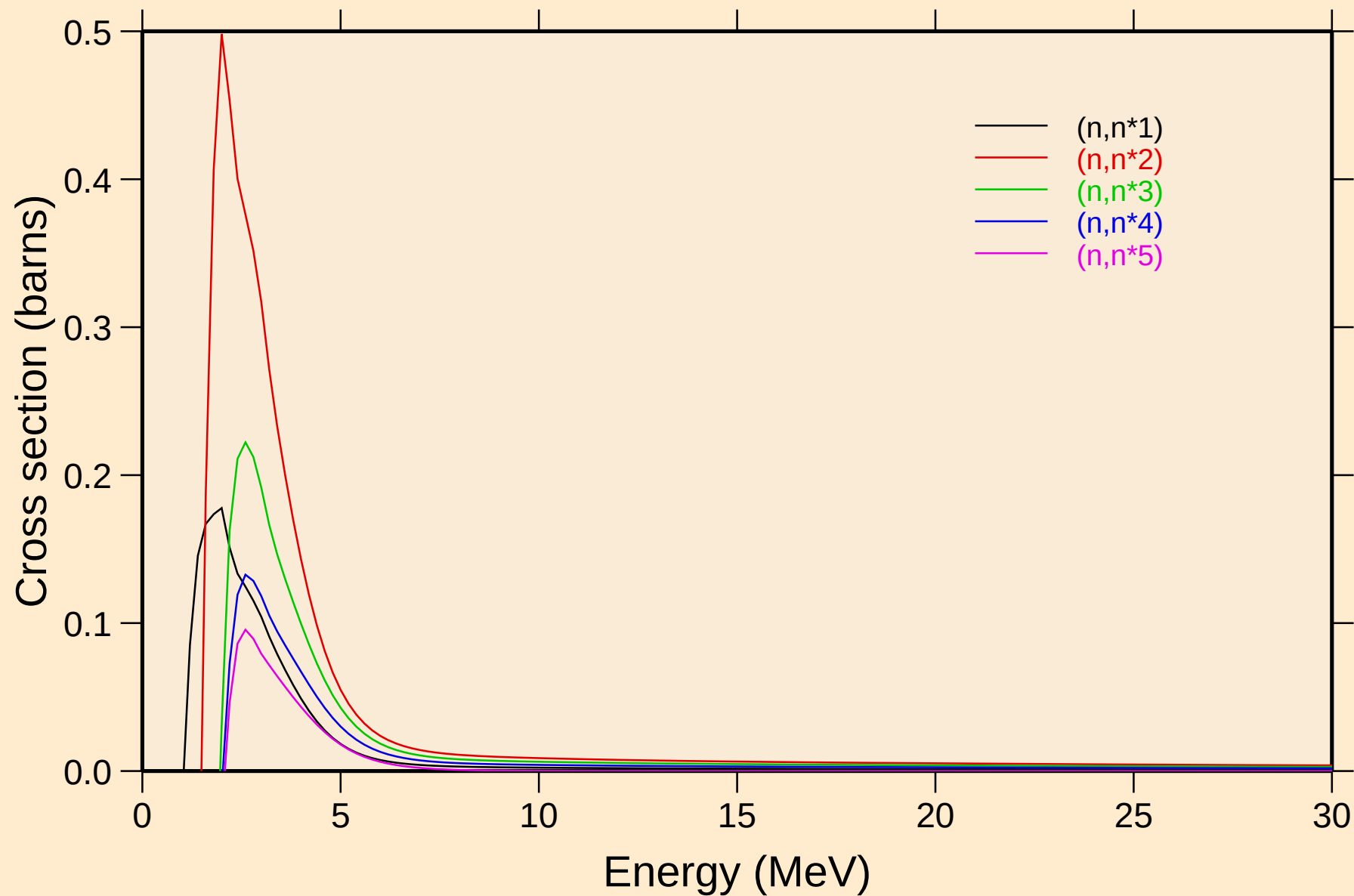


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

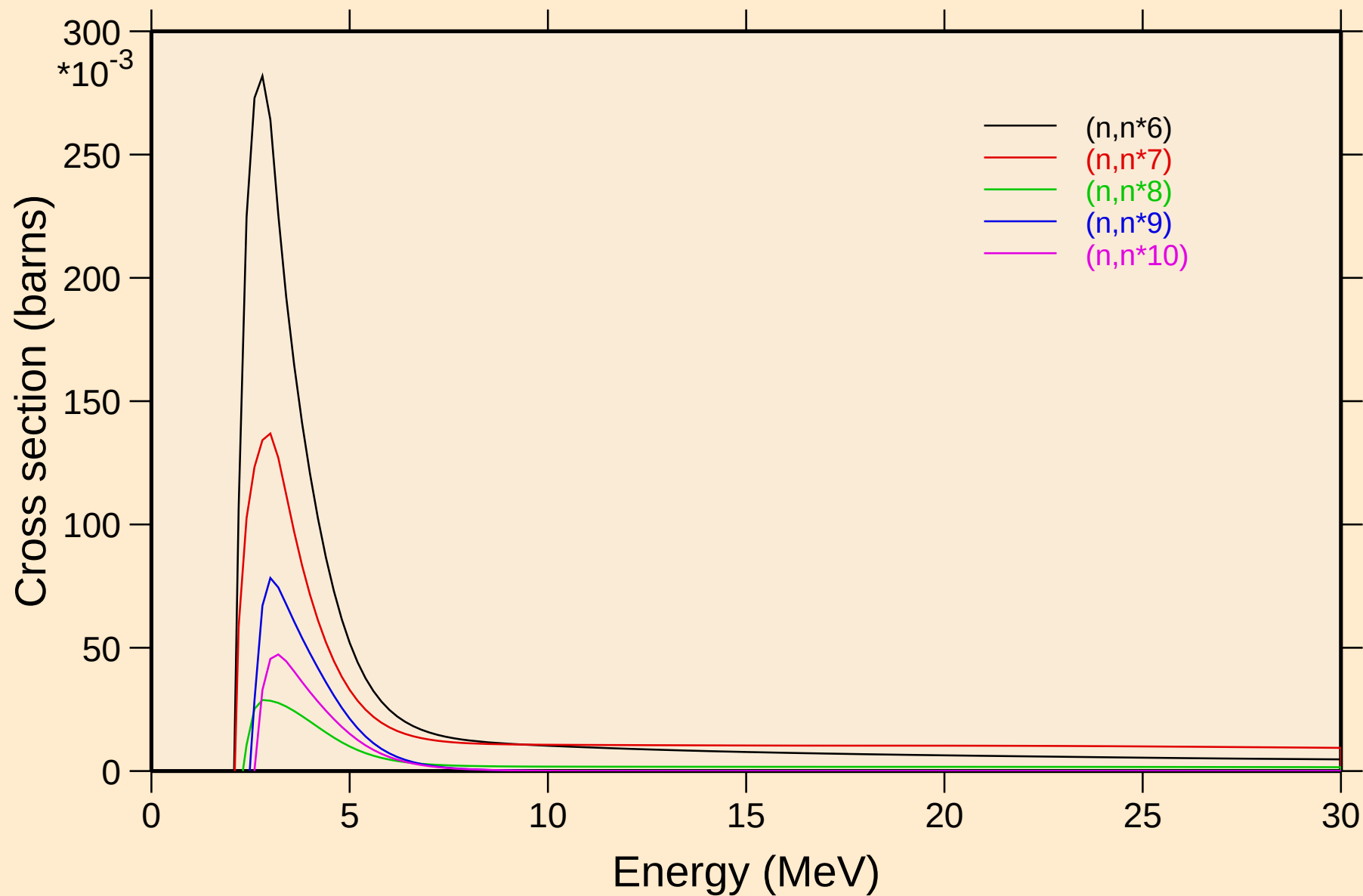




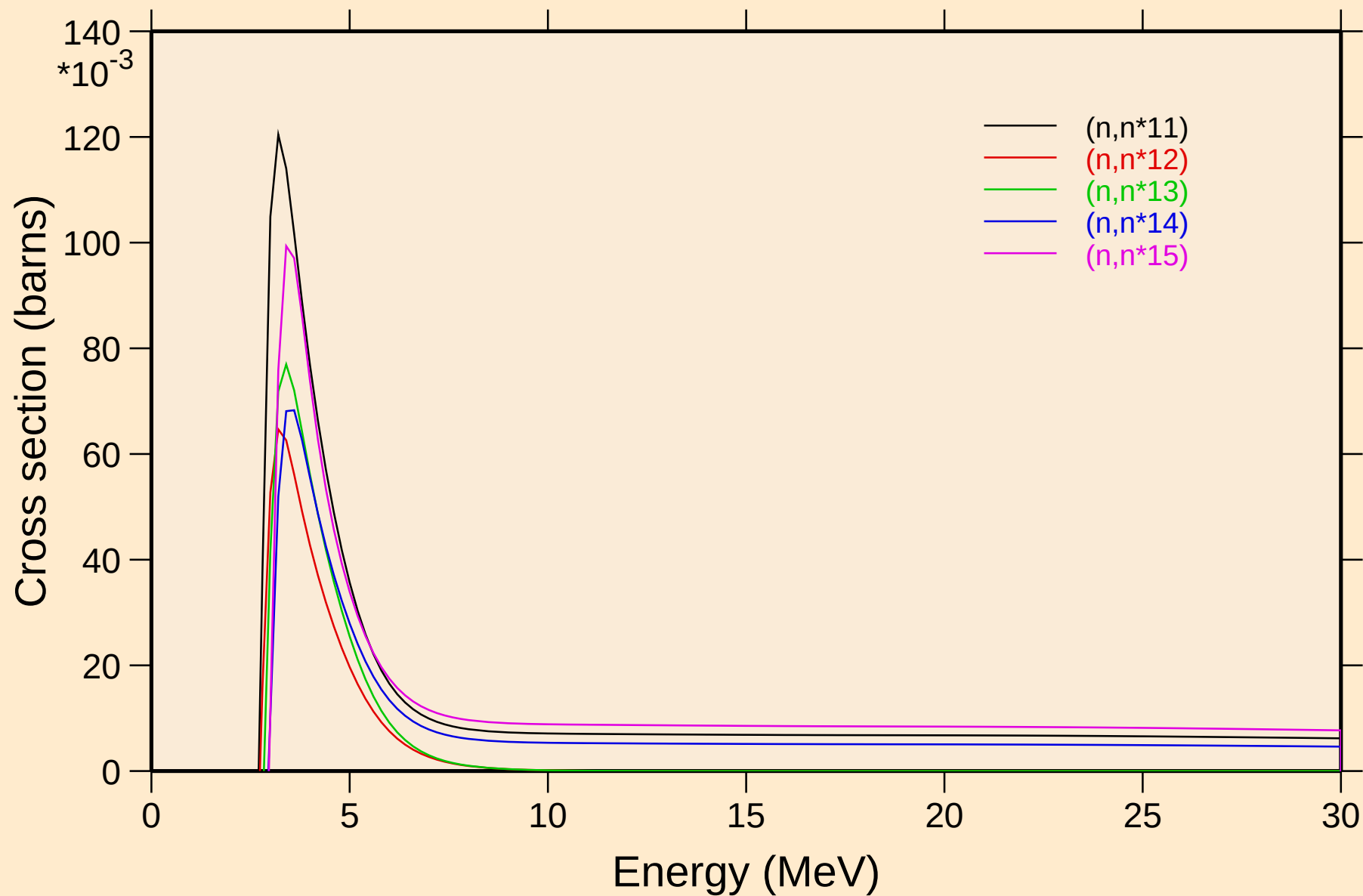
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



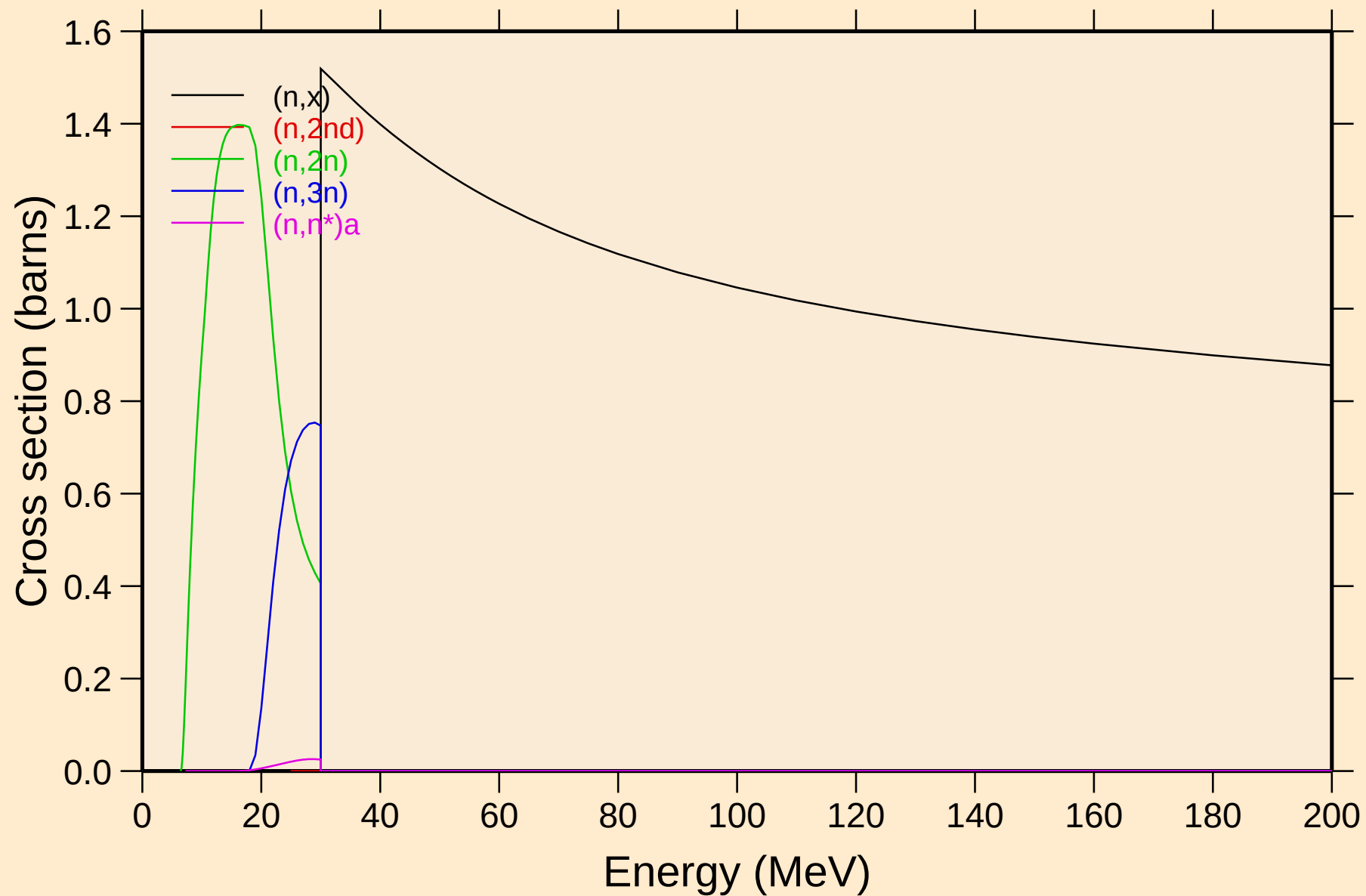
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

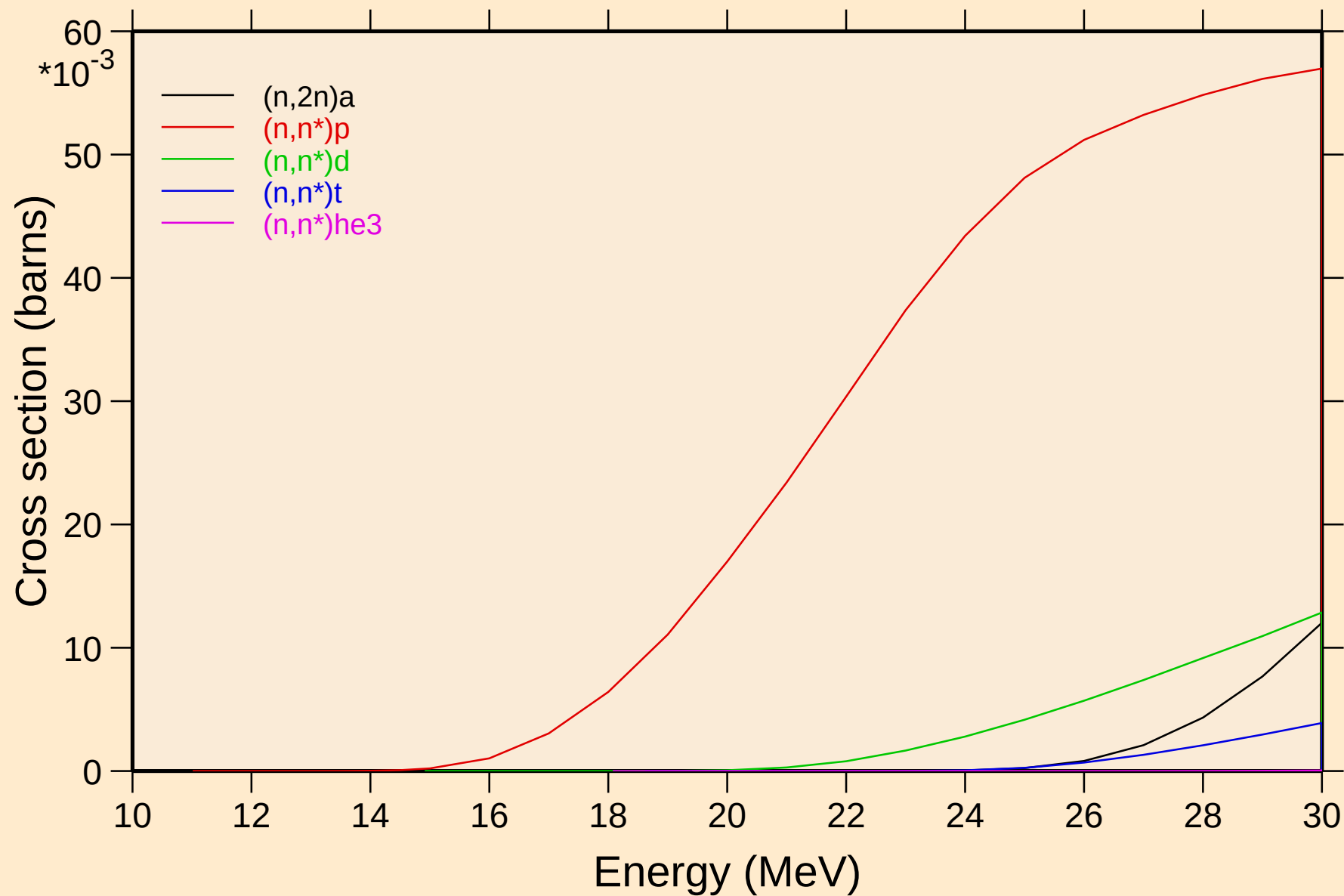


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

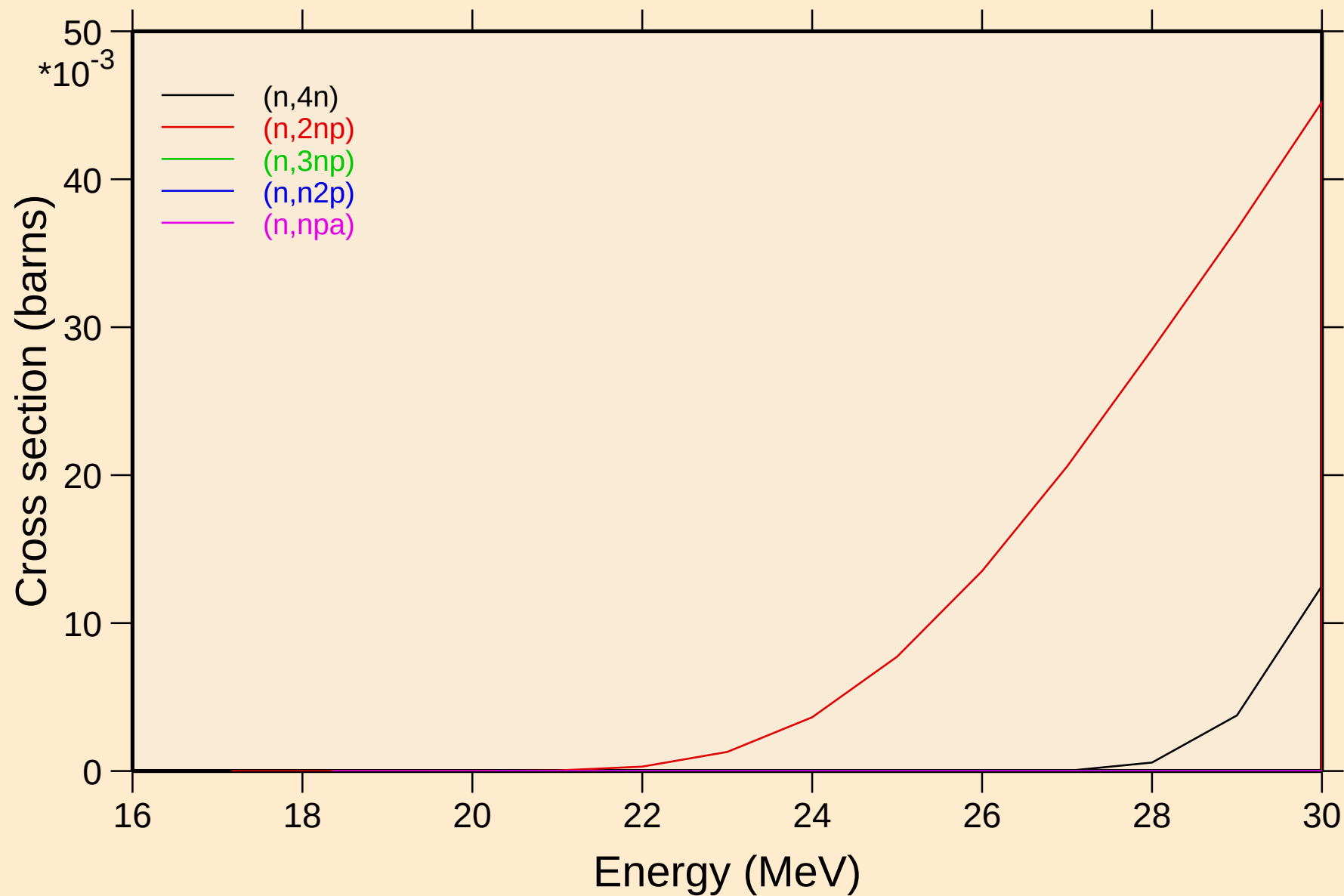


# SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

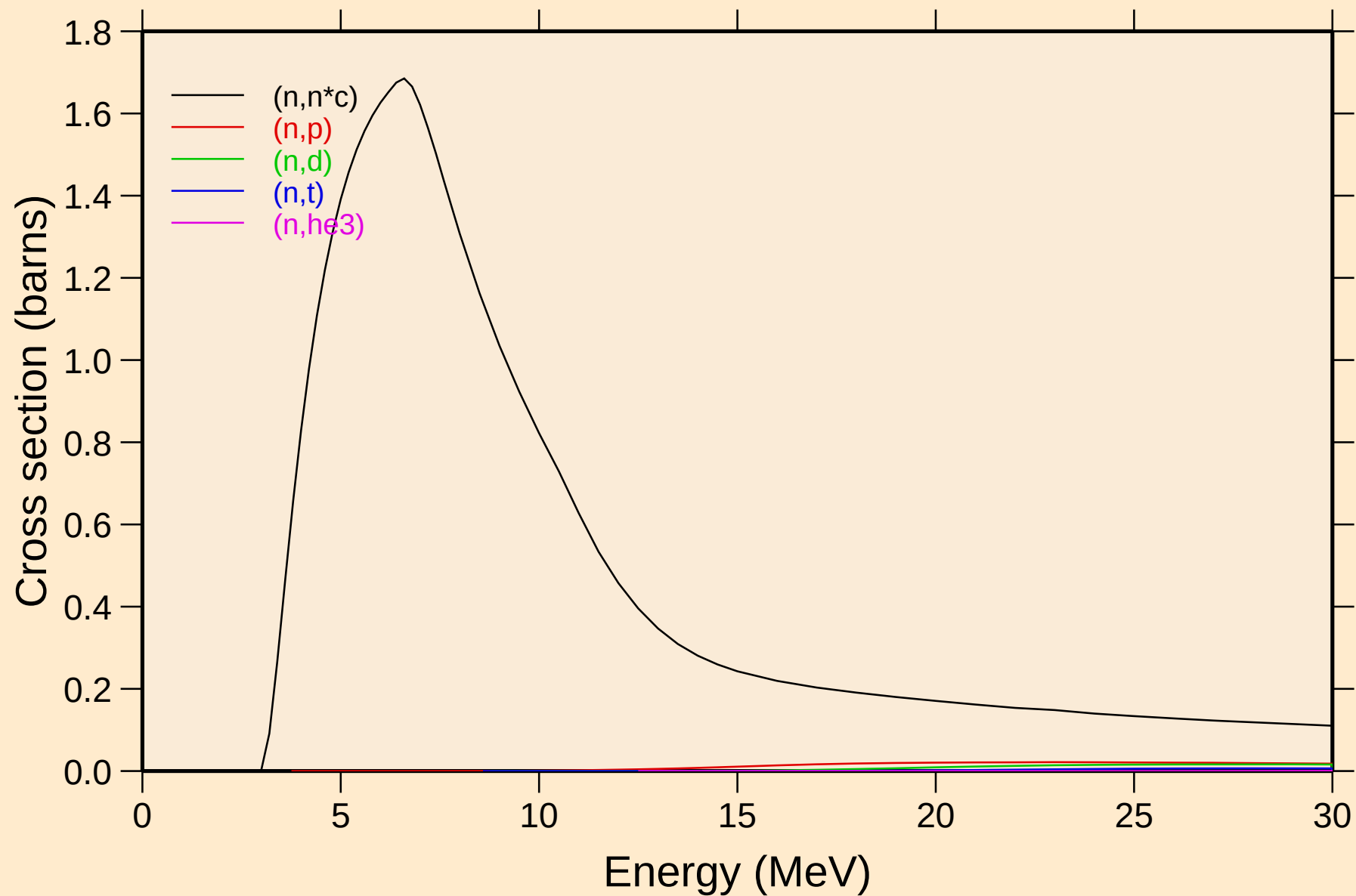
## Threshold reactions



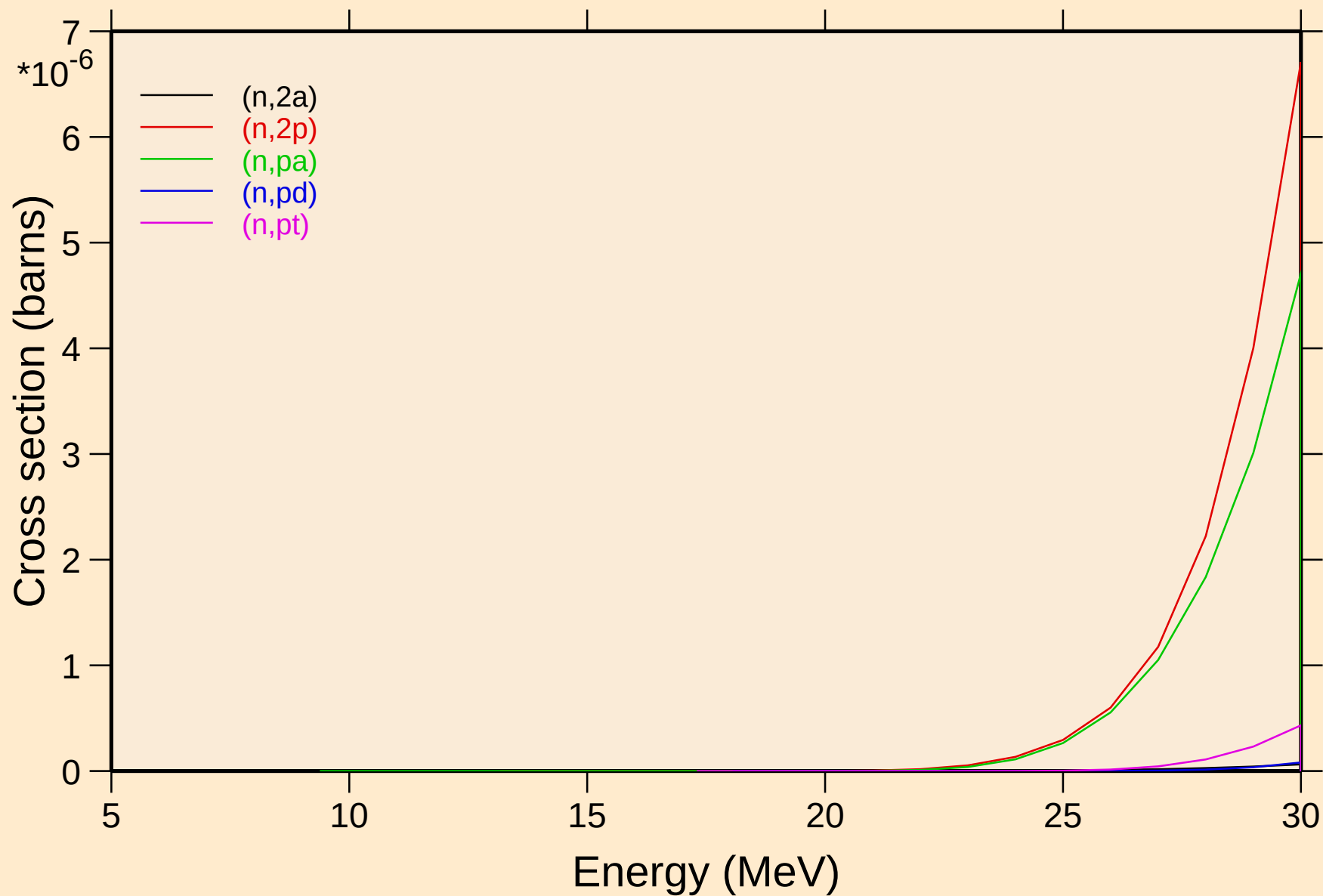
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

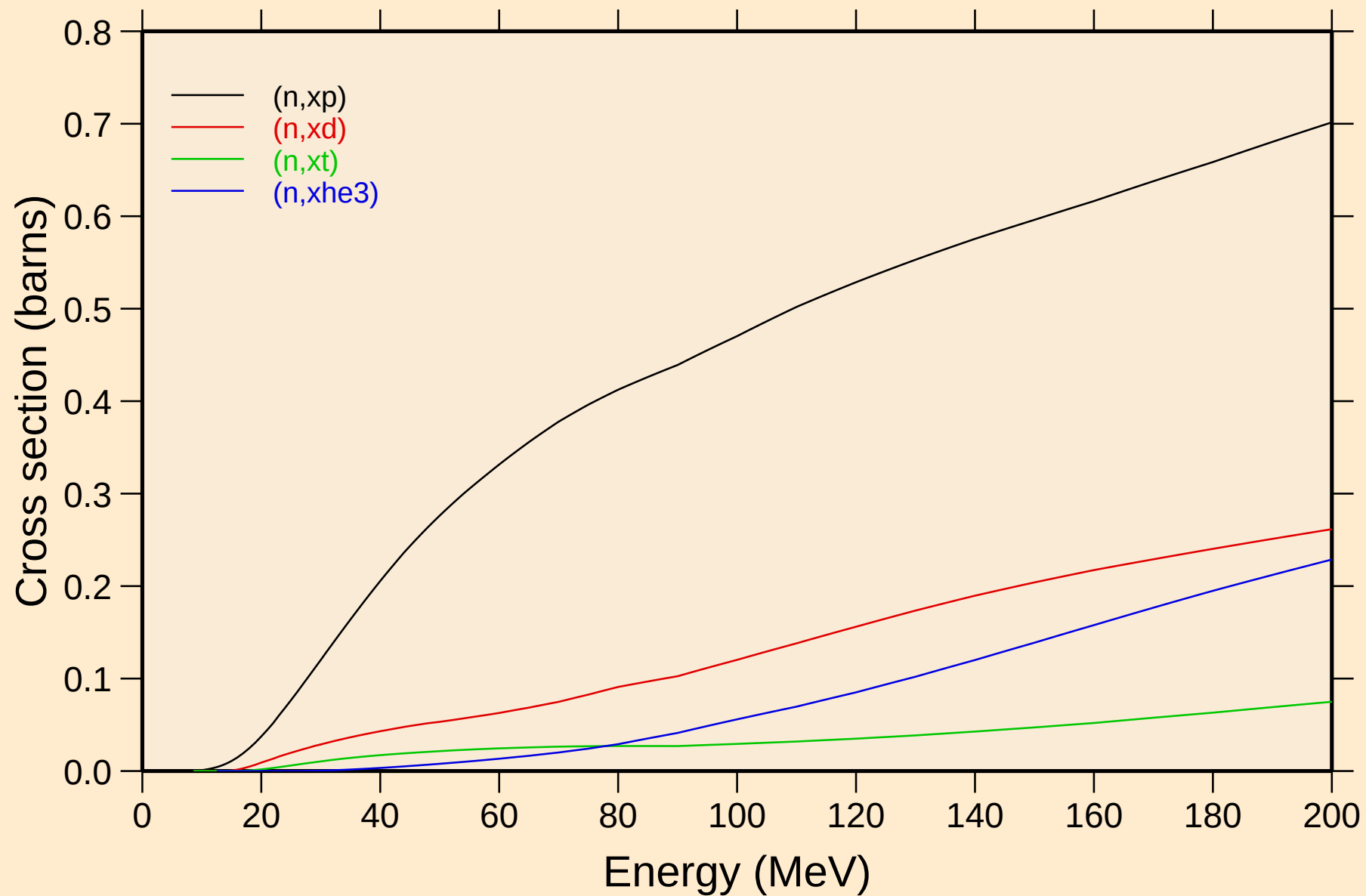


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

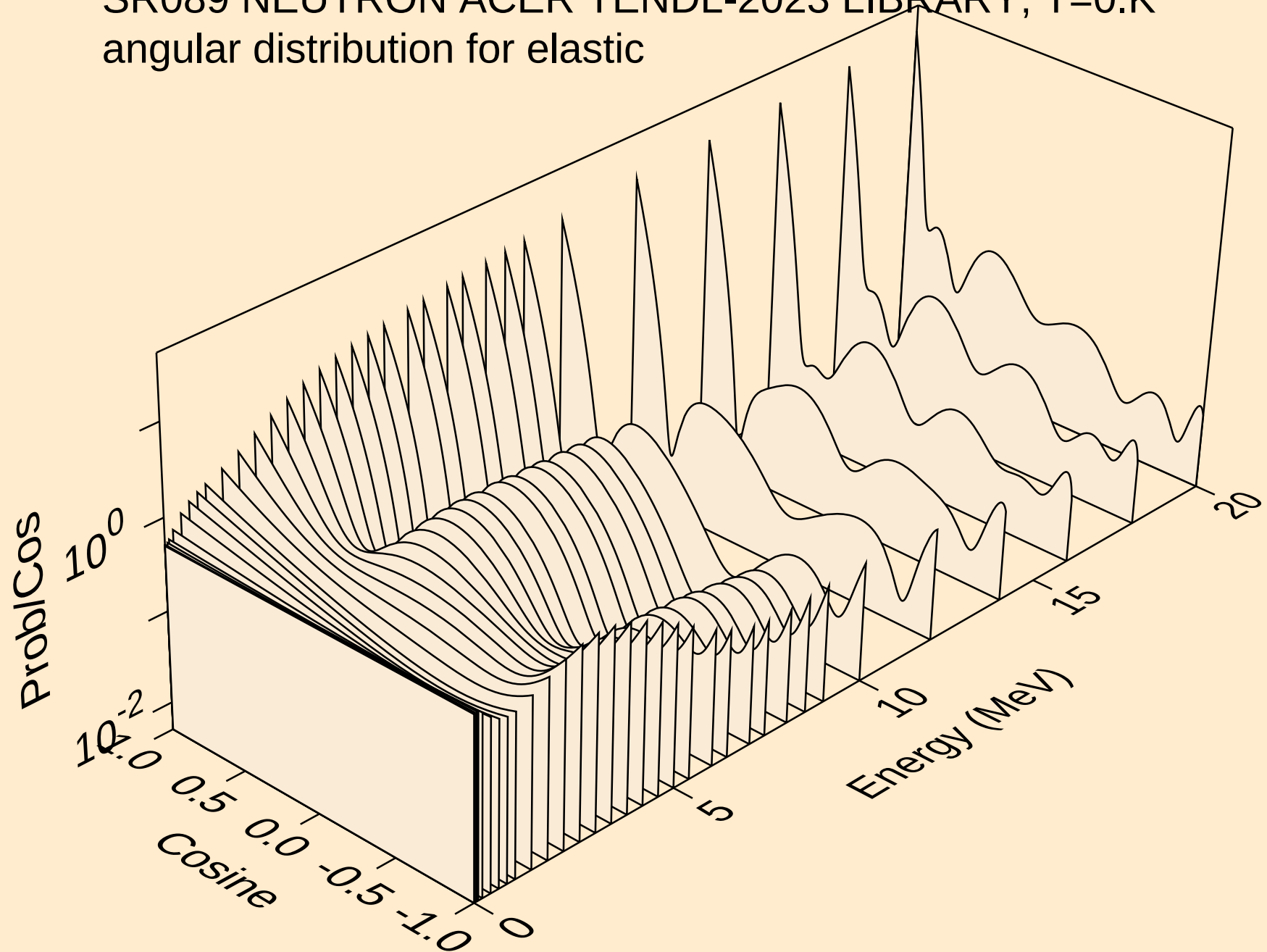




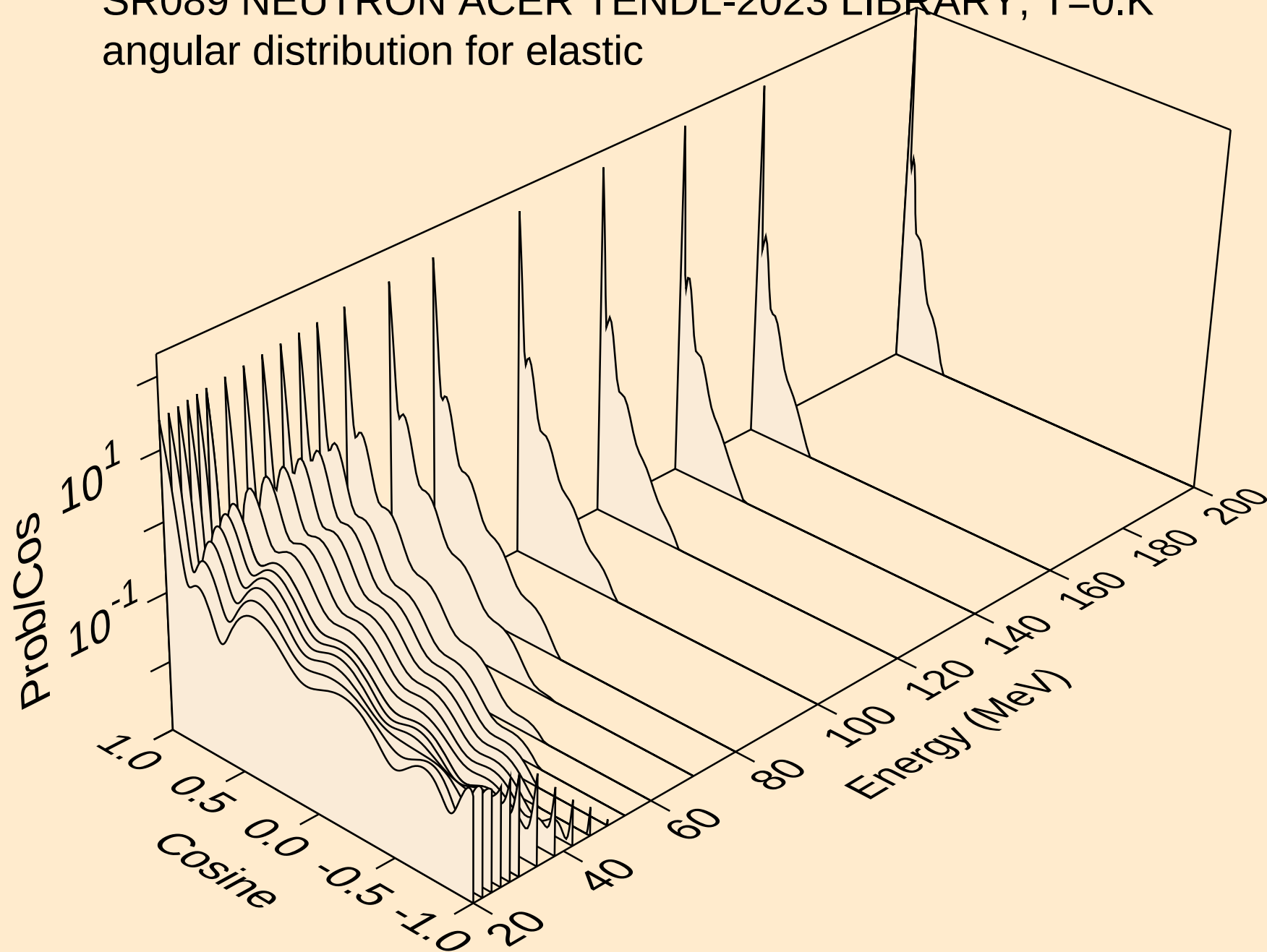
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



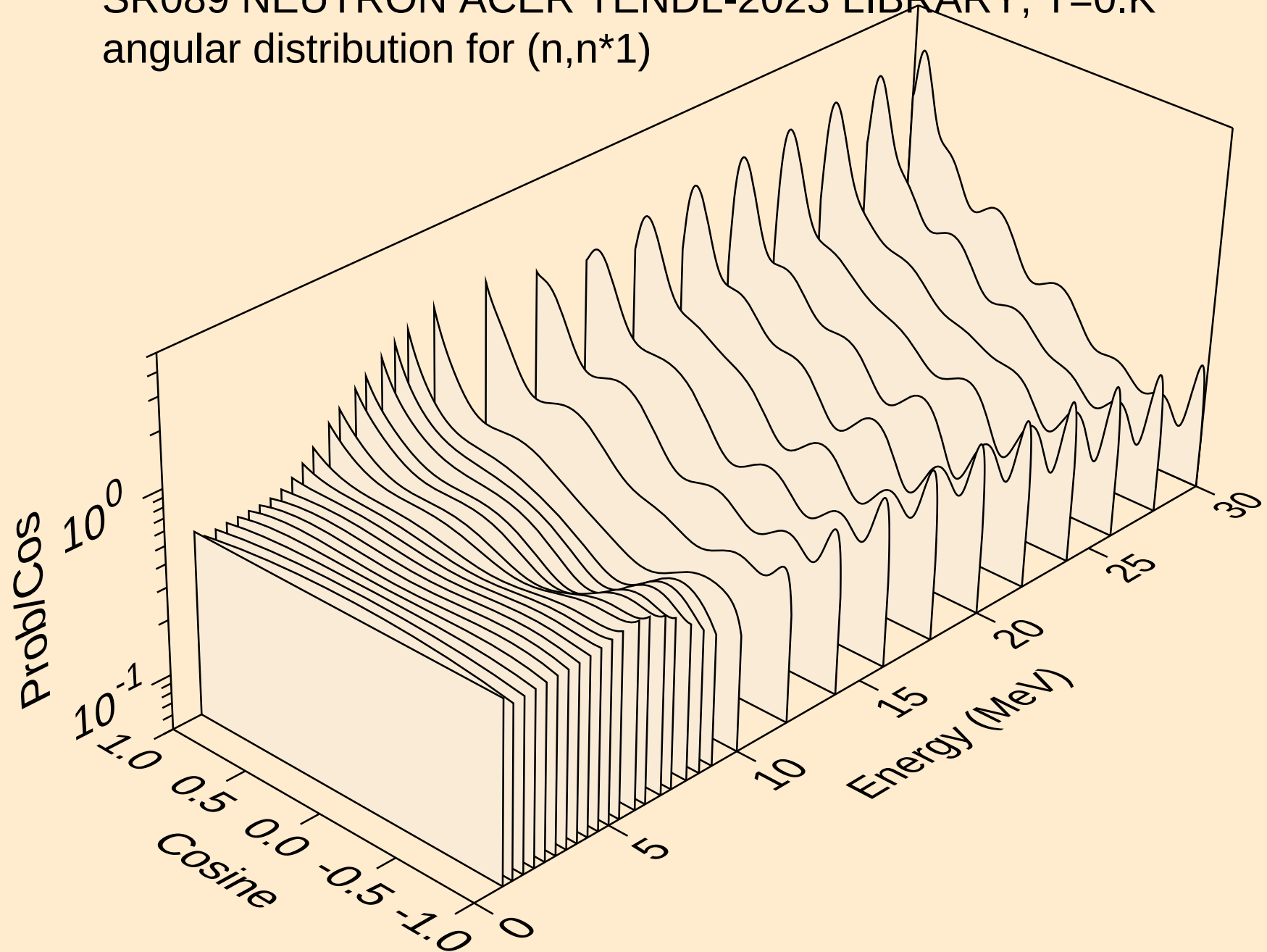
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



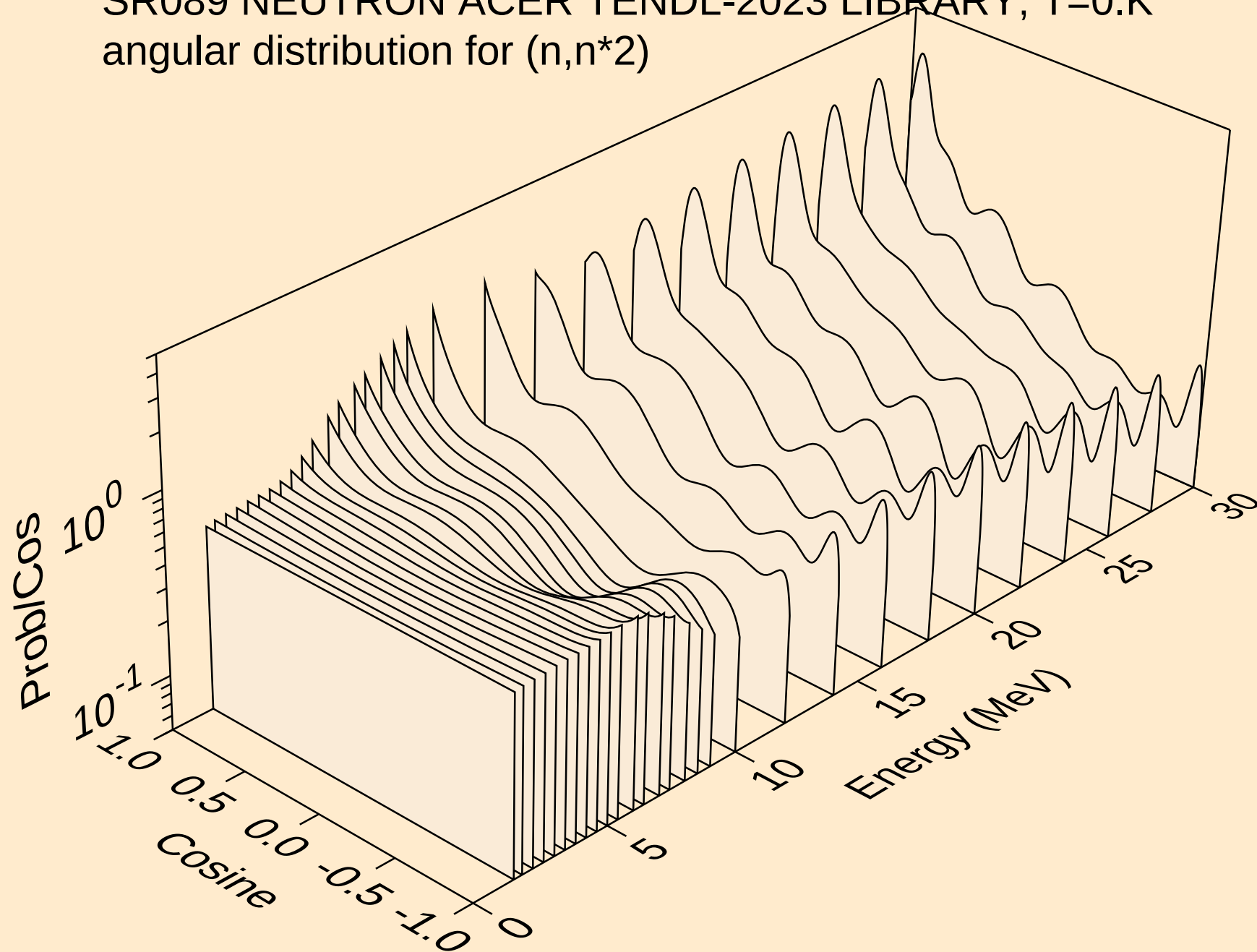
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angular distribution for elastic



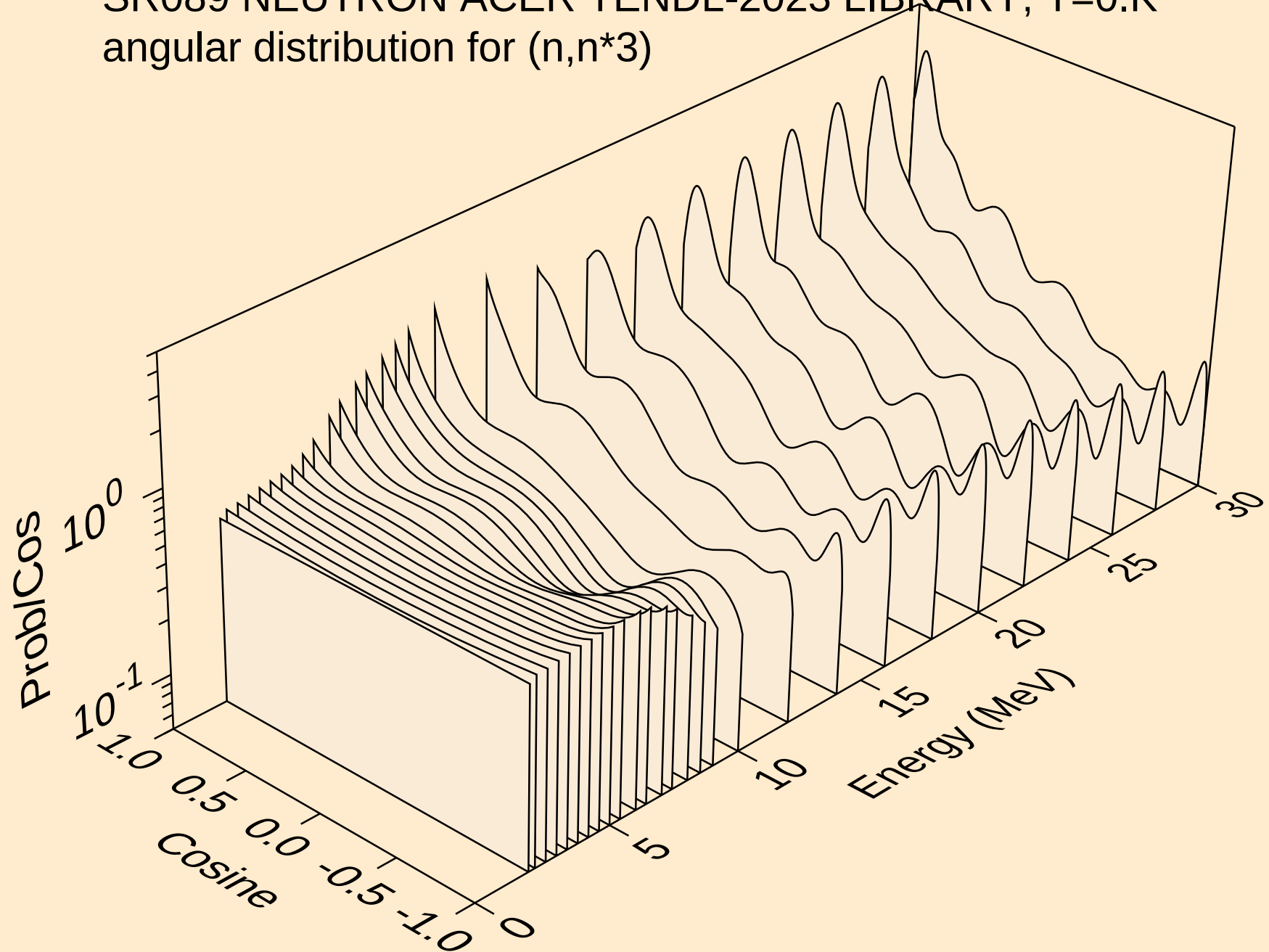
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



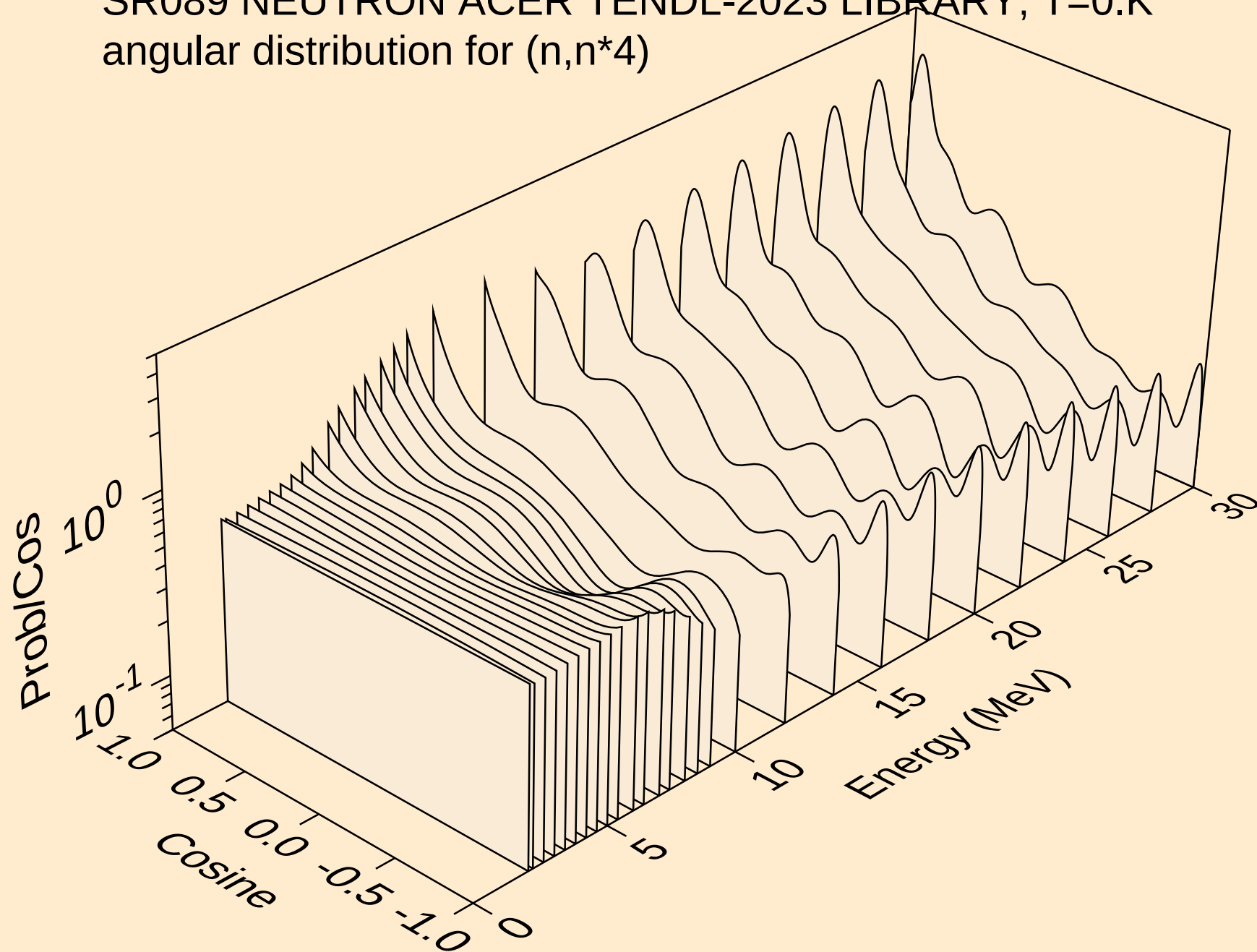
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angular distribution for (n,n\*2)



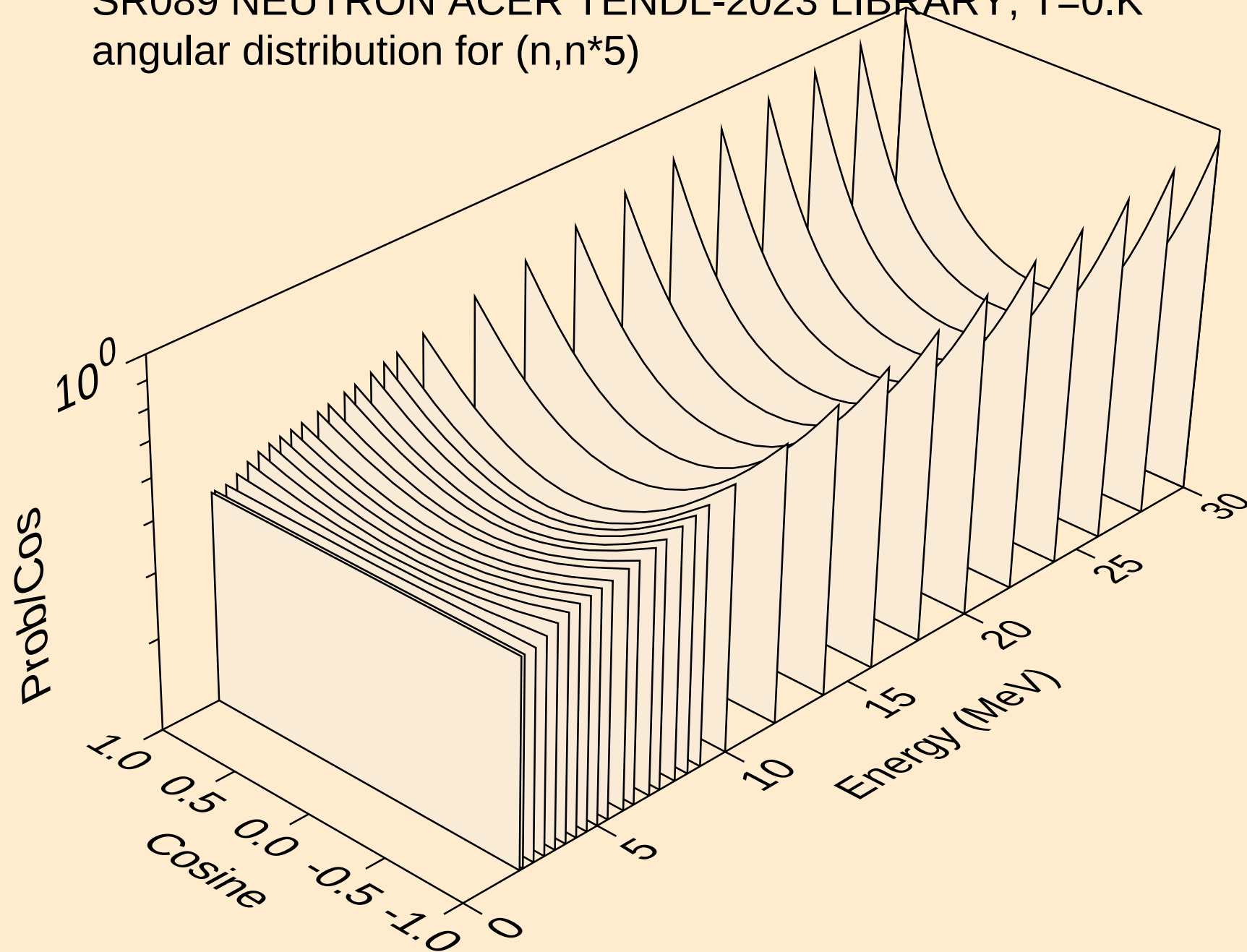
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)

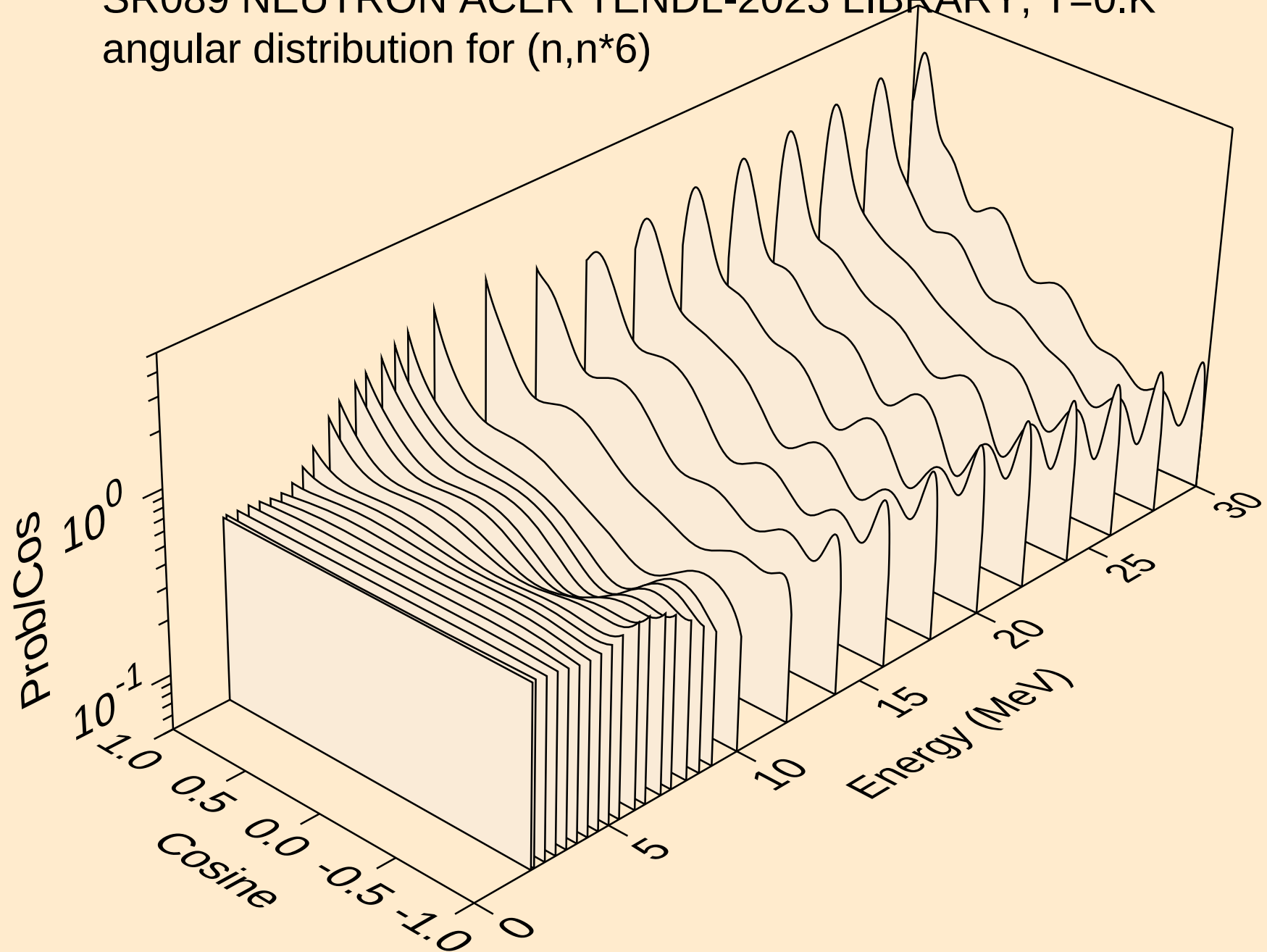


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)

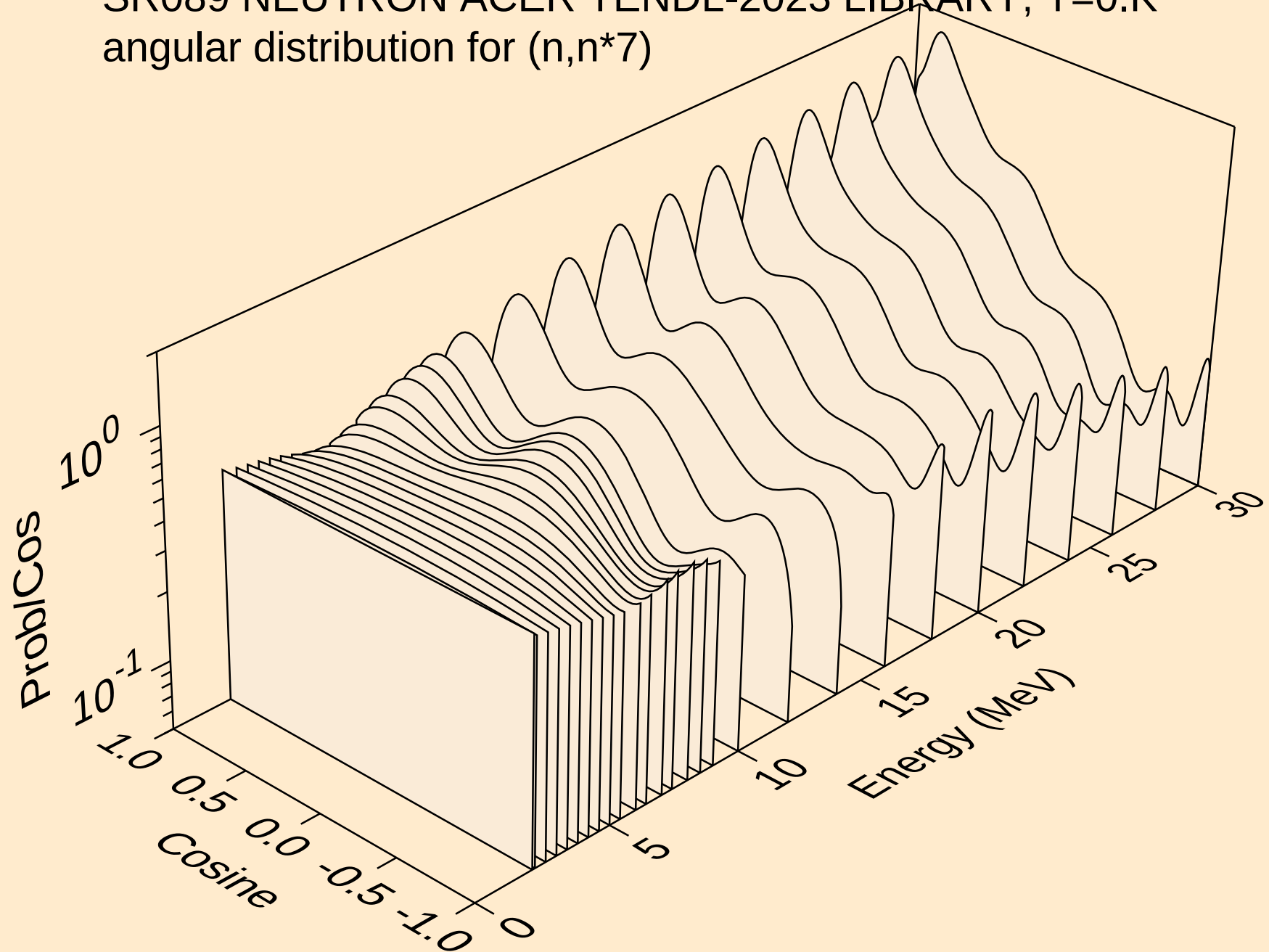




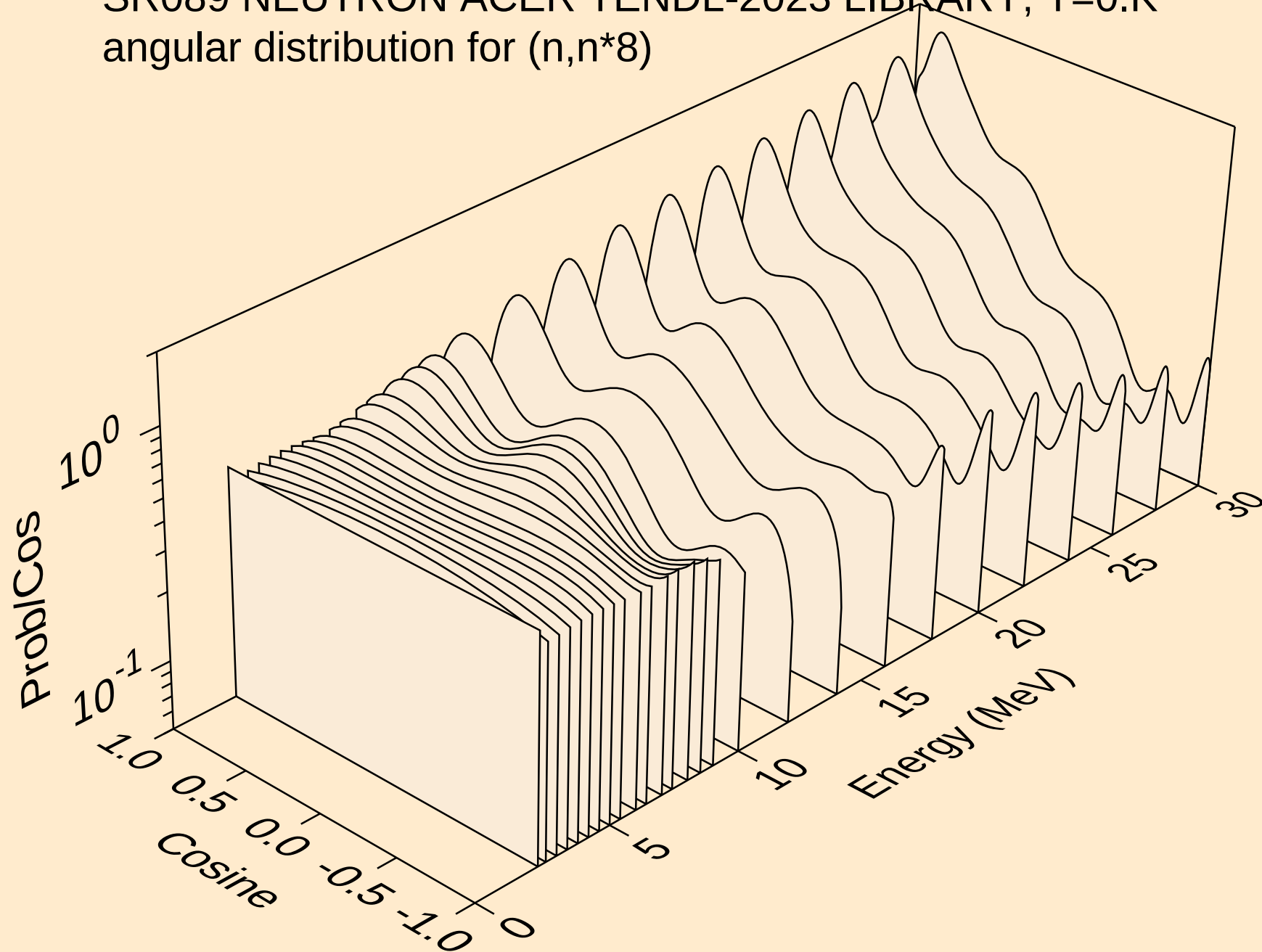
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angular distribution for (n,n\*6)



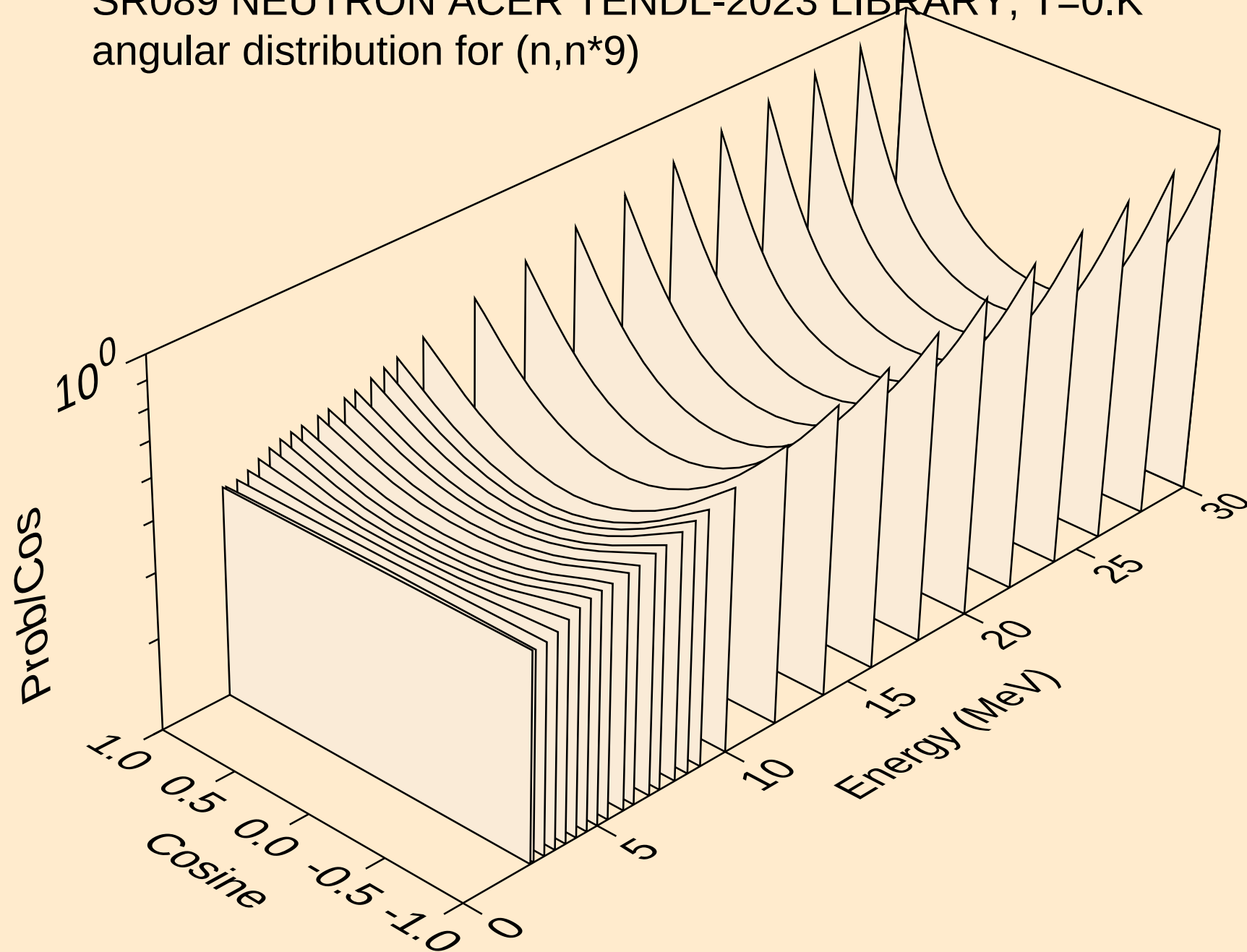
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angular distribution for (n,n\*7)



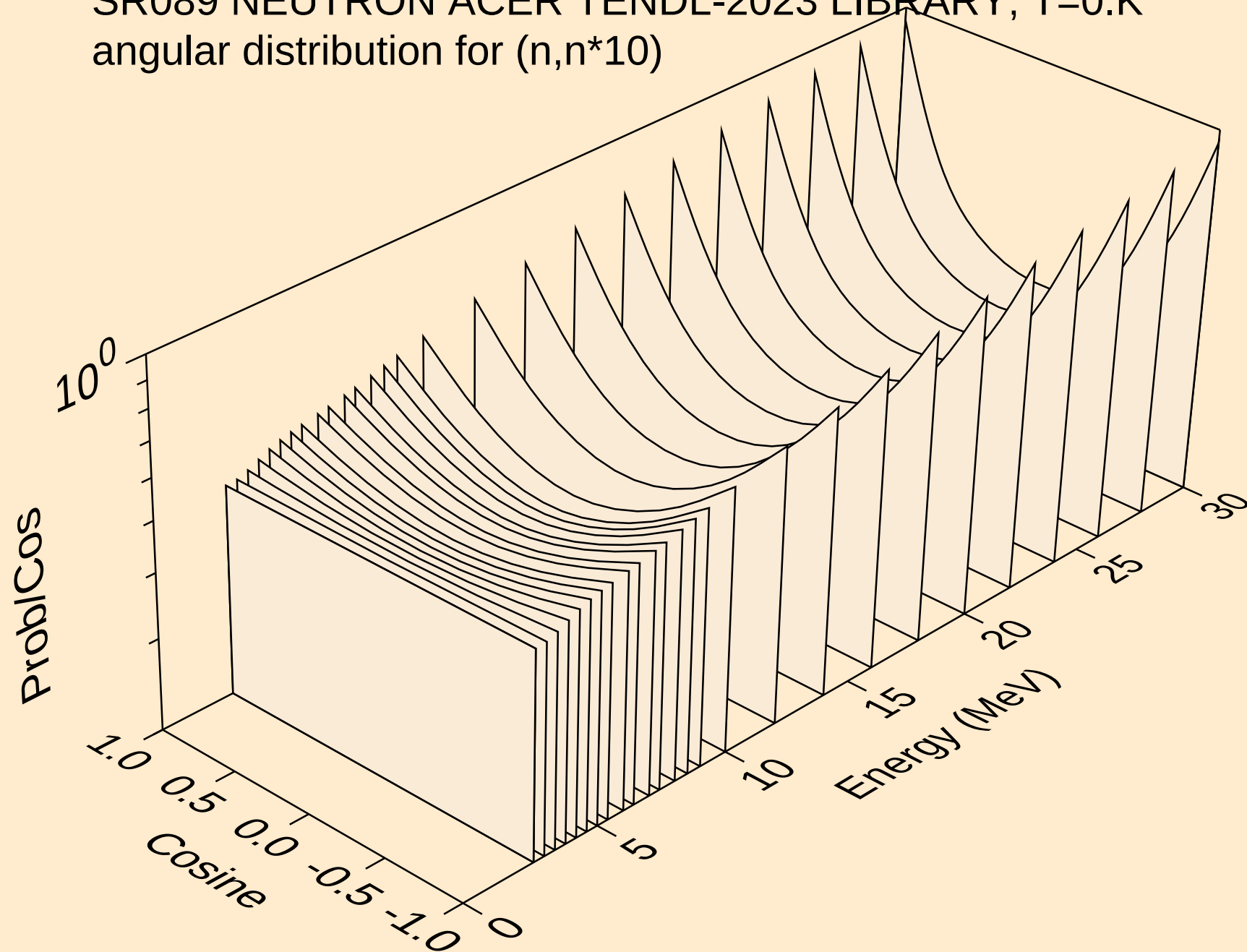
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angular distribution for (n,n\*8)



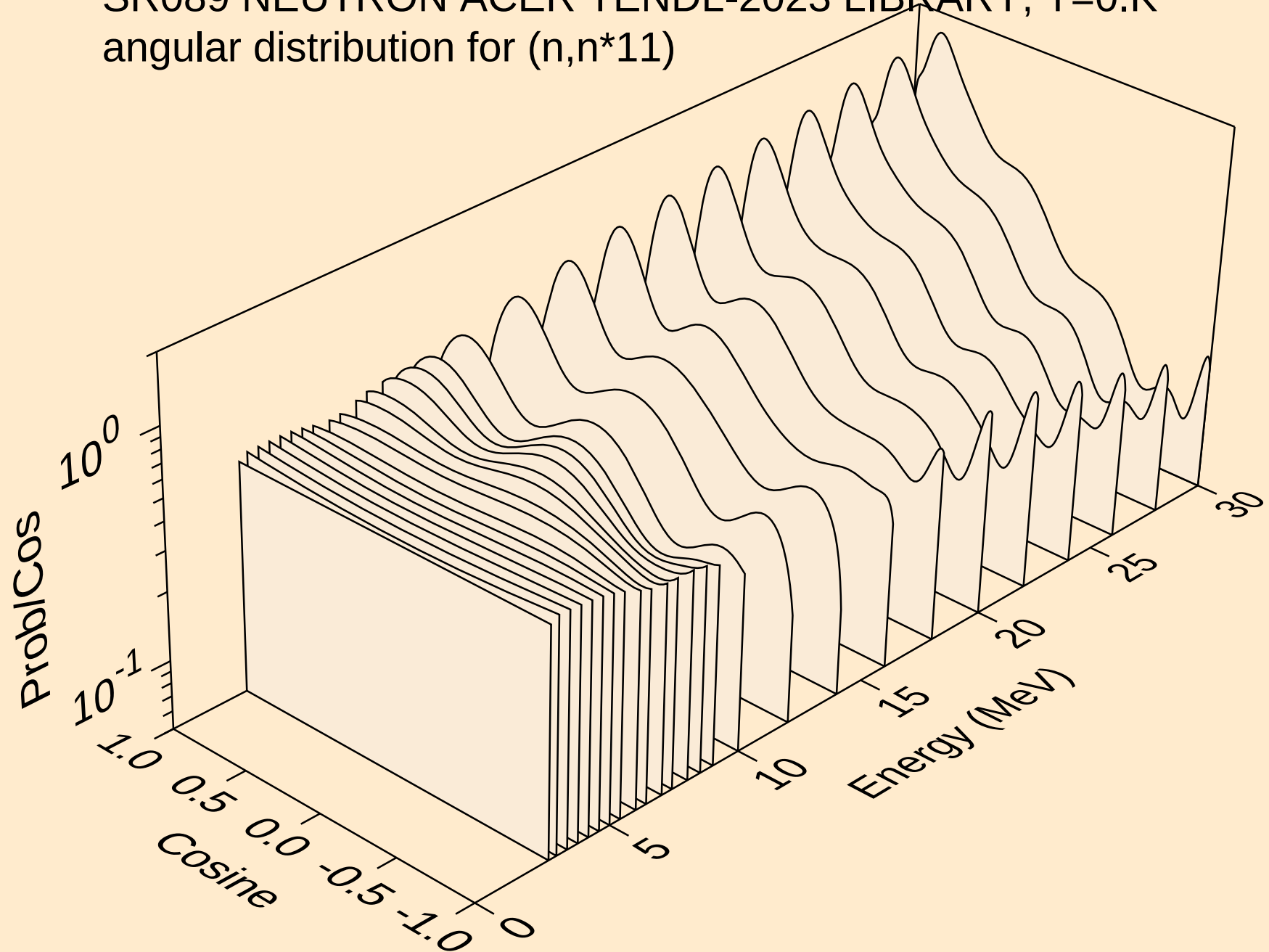
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angular distribution for (n,n\*9)



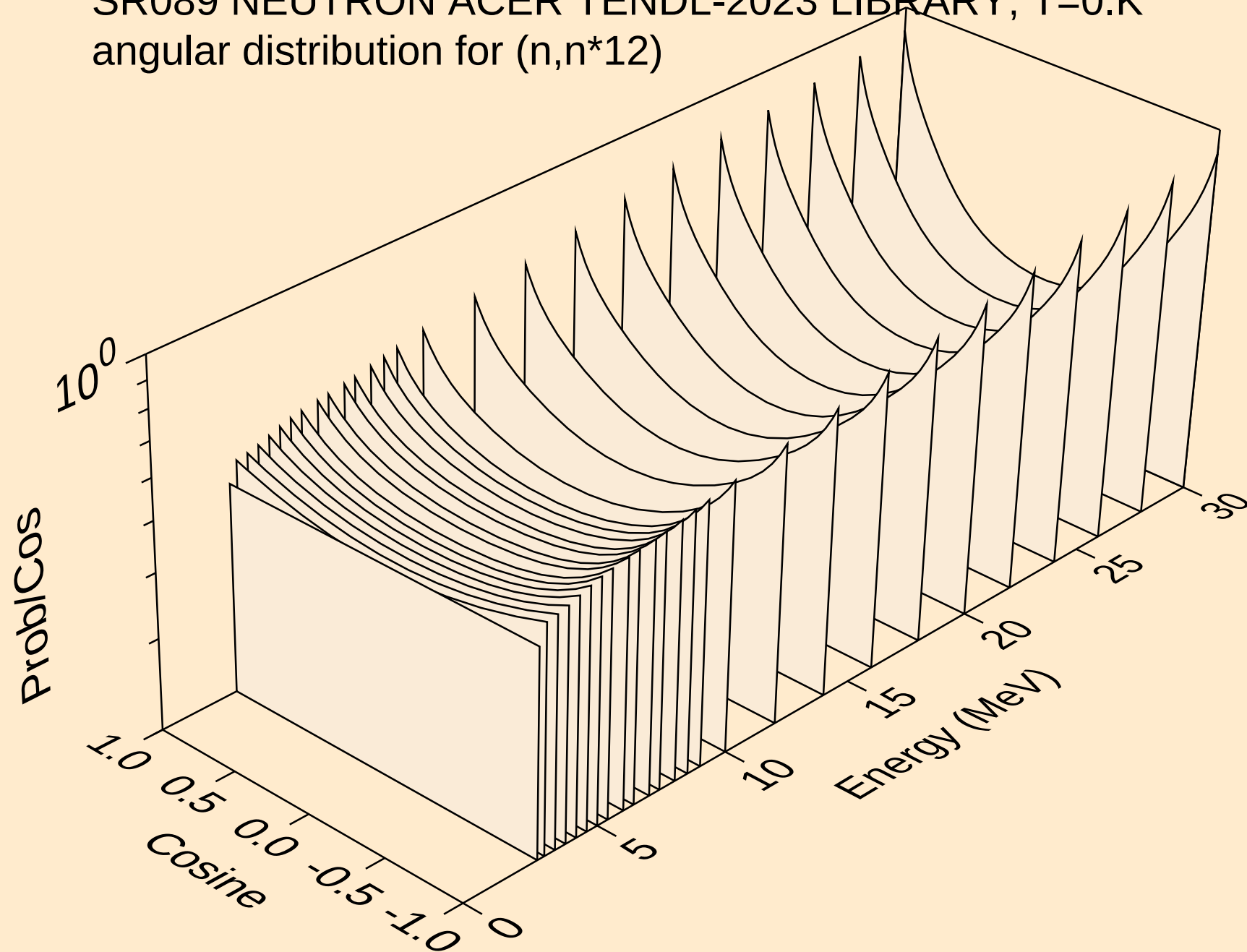
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angular distribution for (n,n\*10)



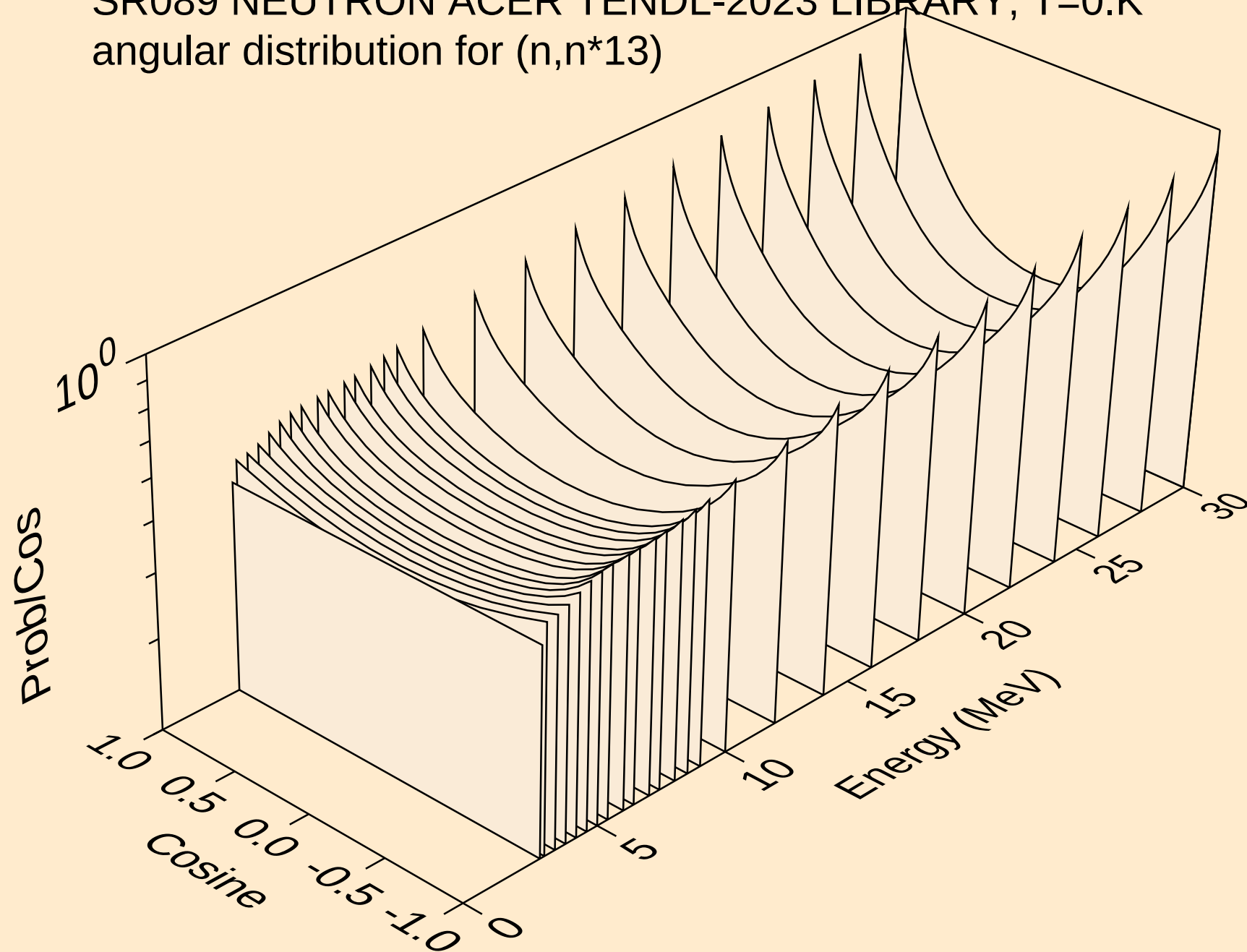
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)

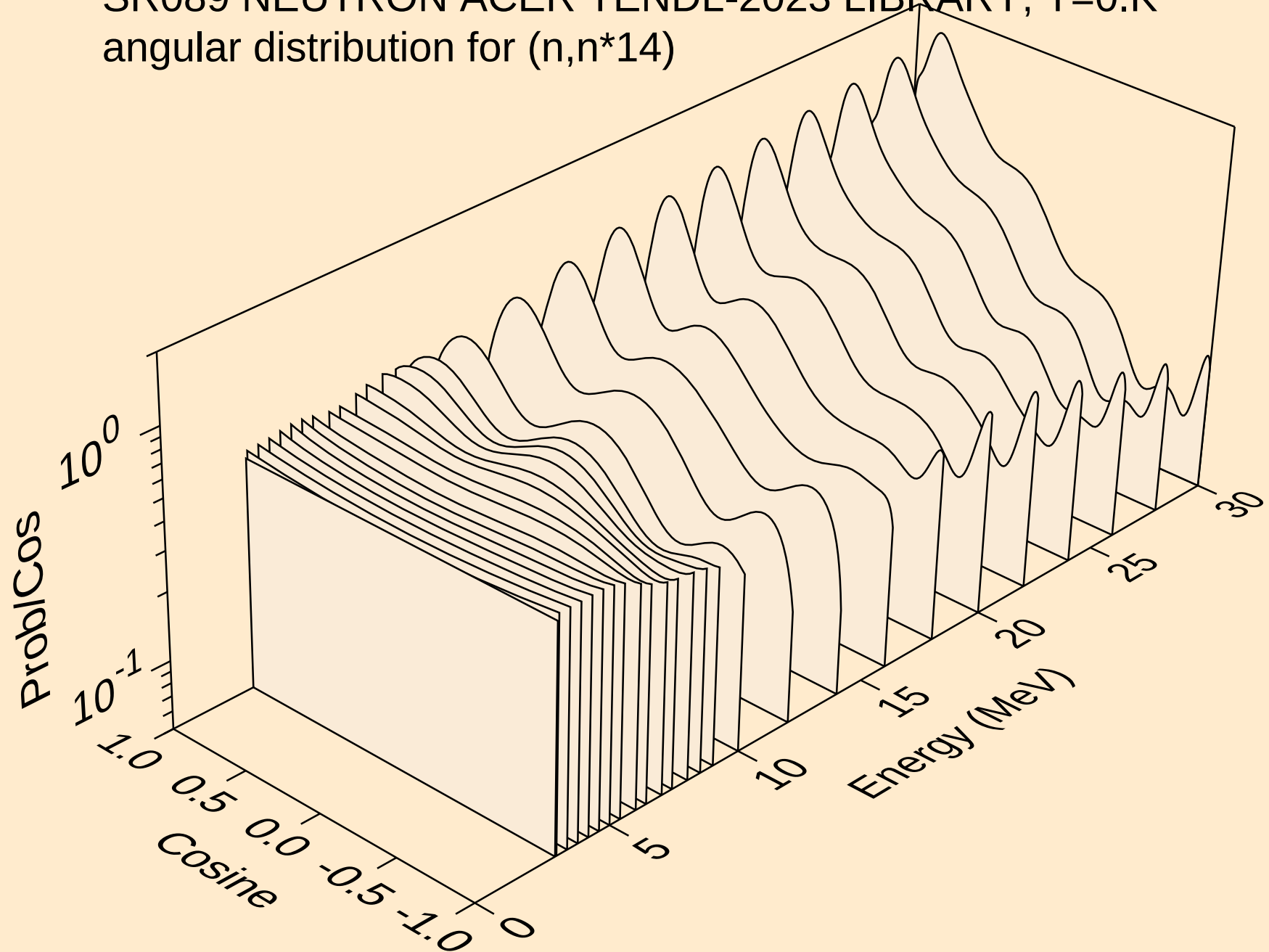


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angular distribution for (n,n\*13)

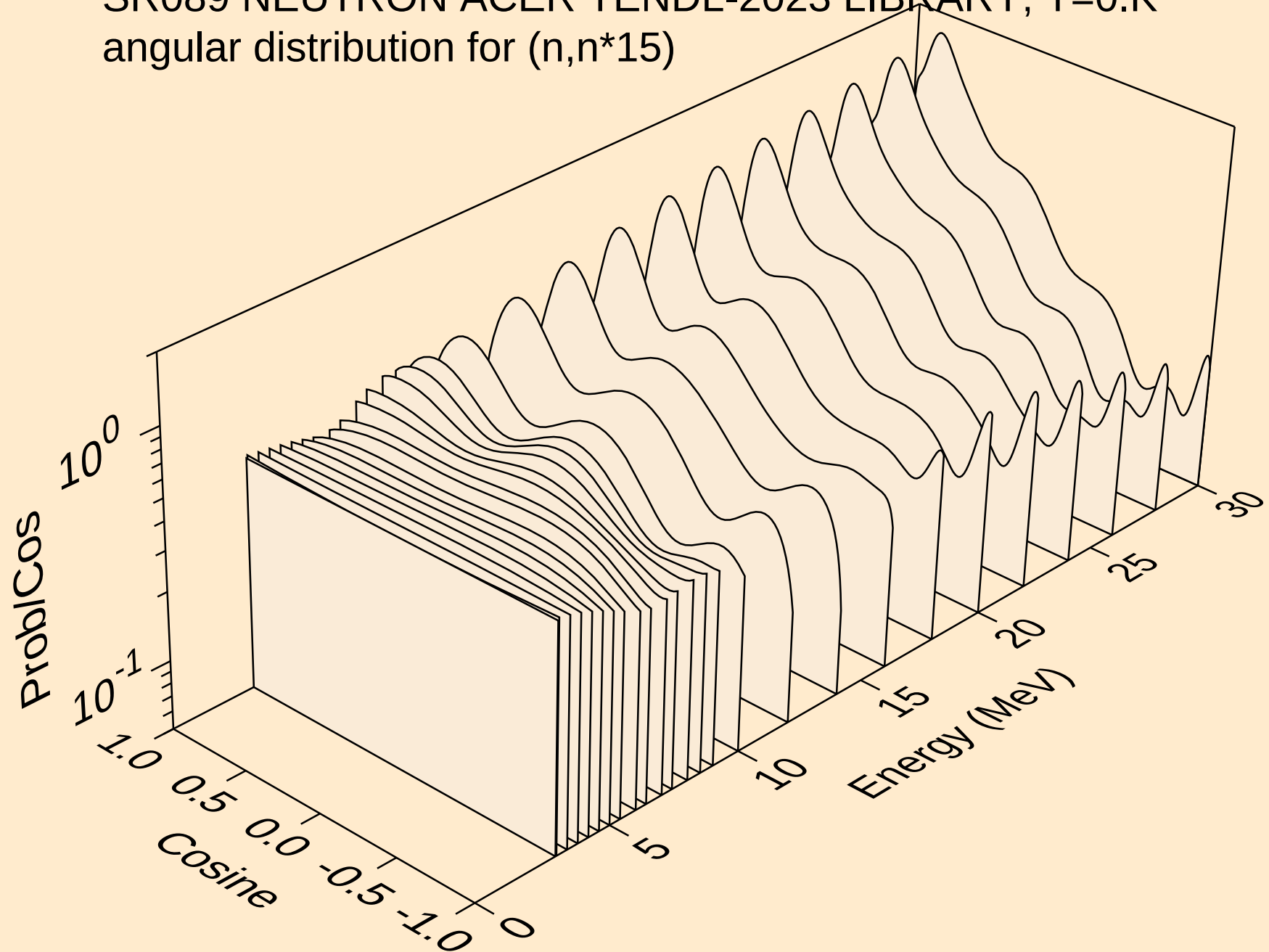




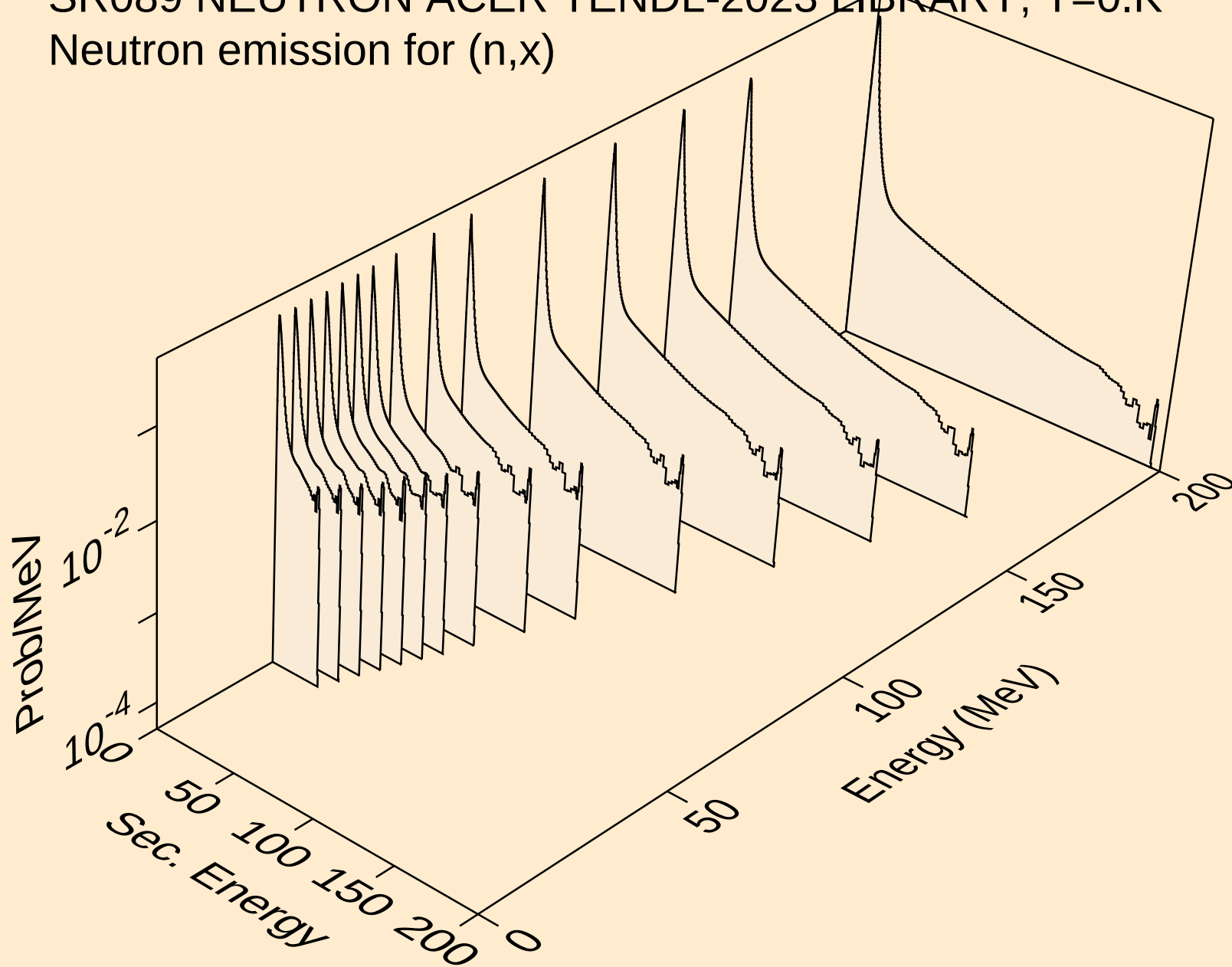
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angular distribution for (n,n\*14)



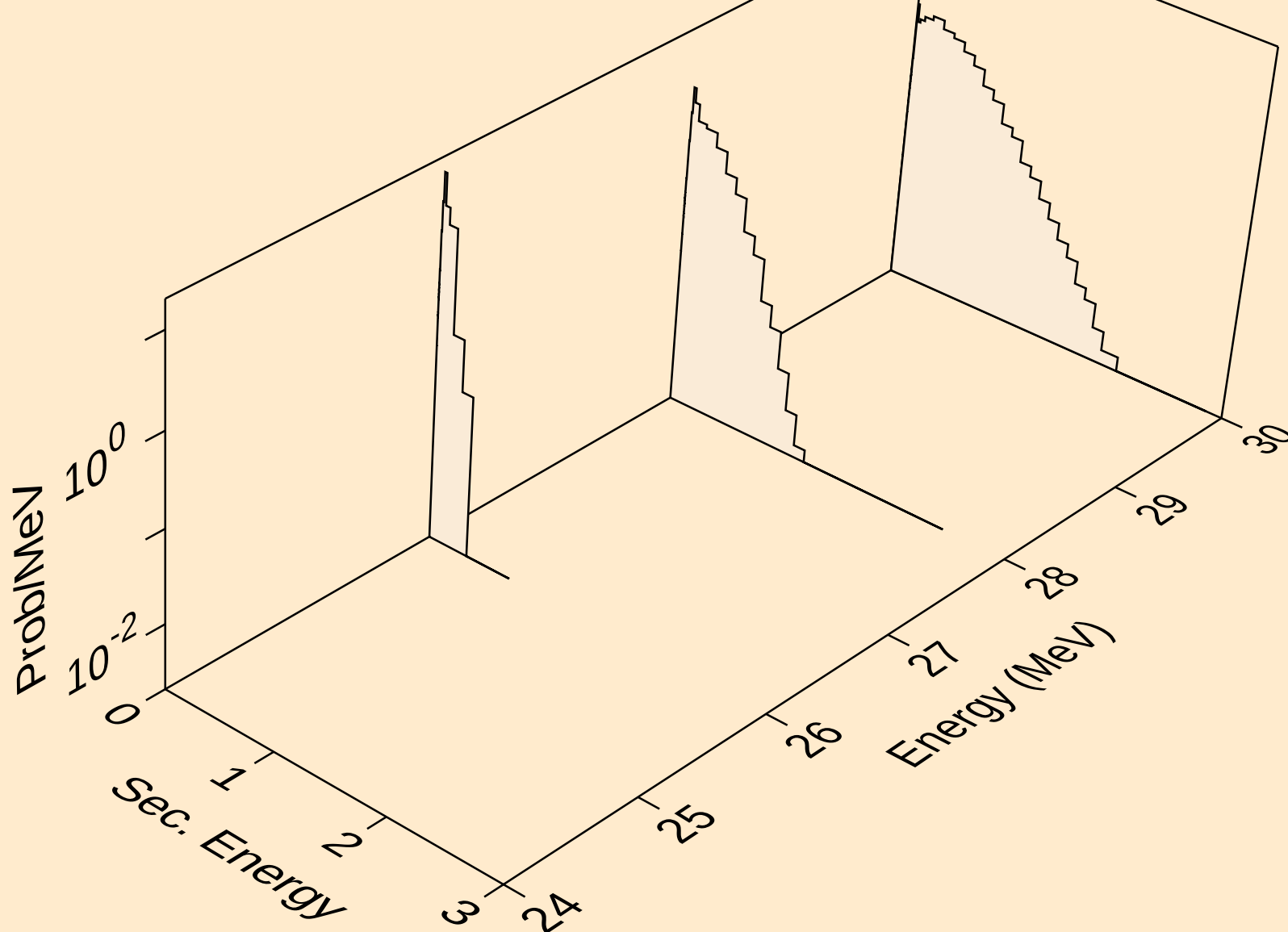
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angular distribution for (n,n\*15)



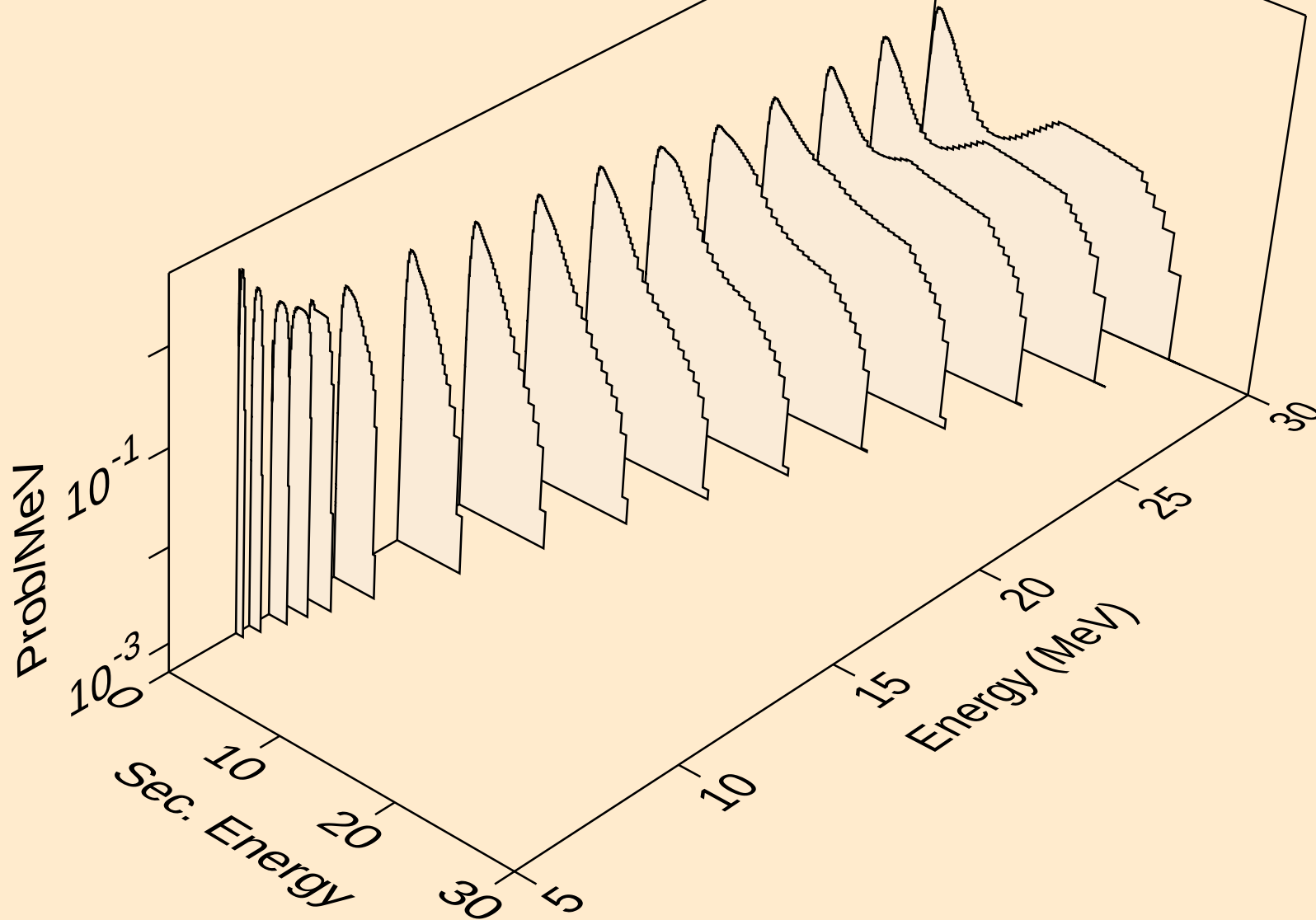
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



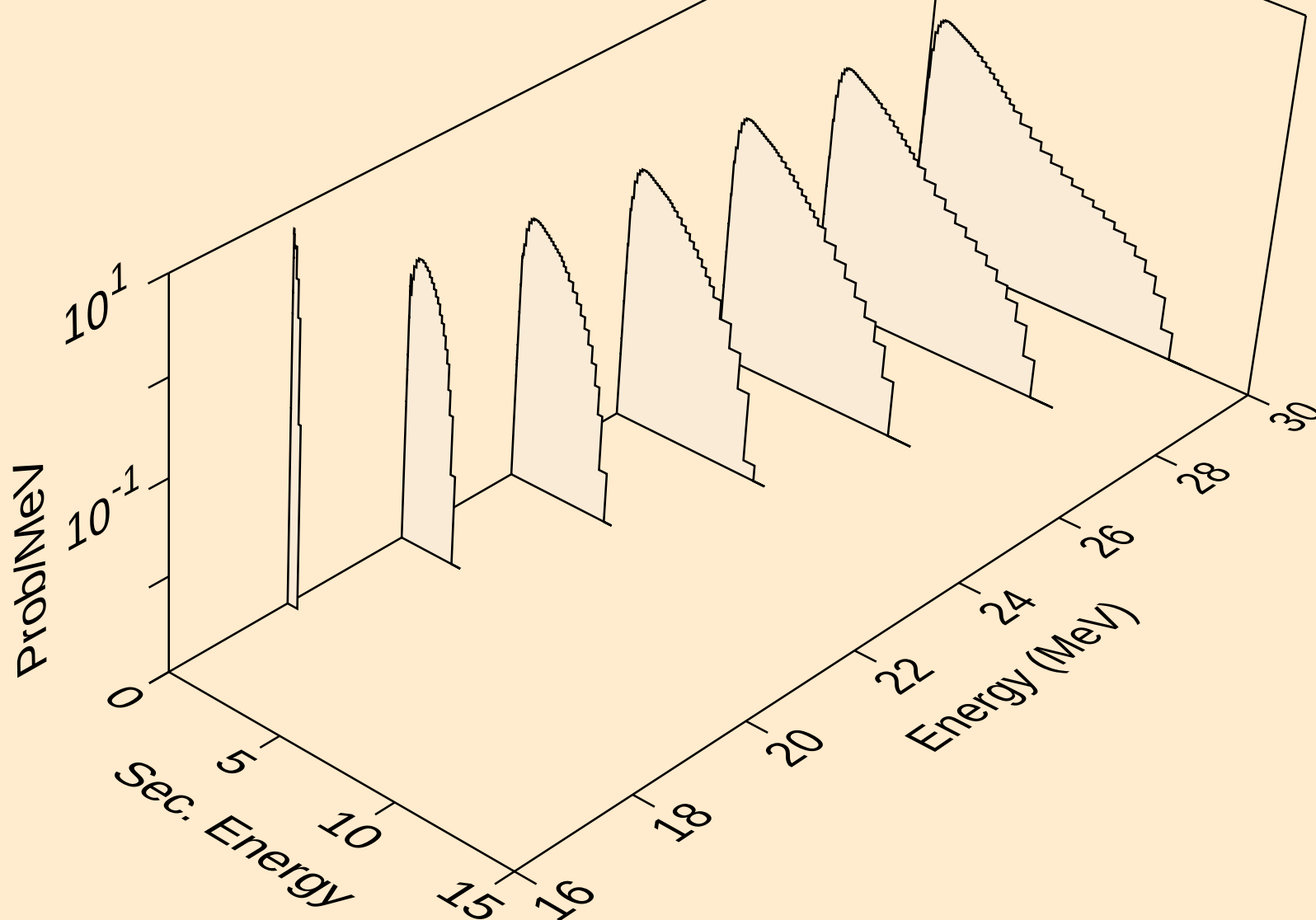
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



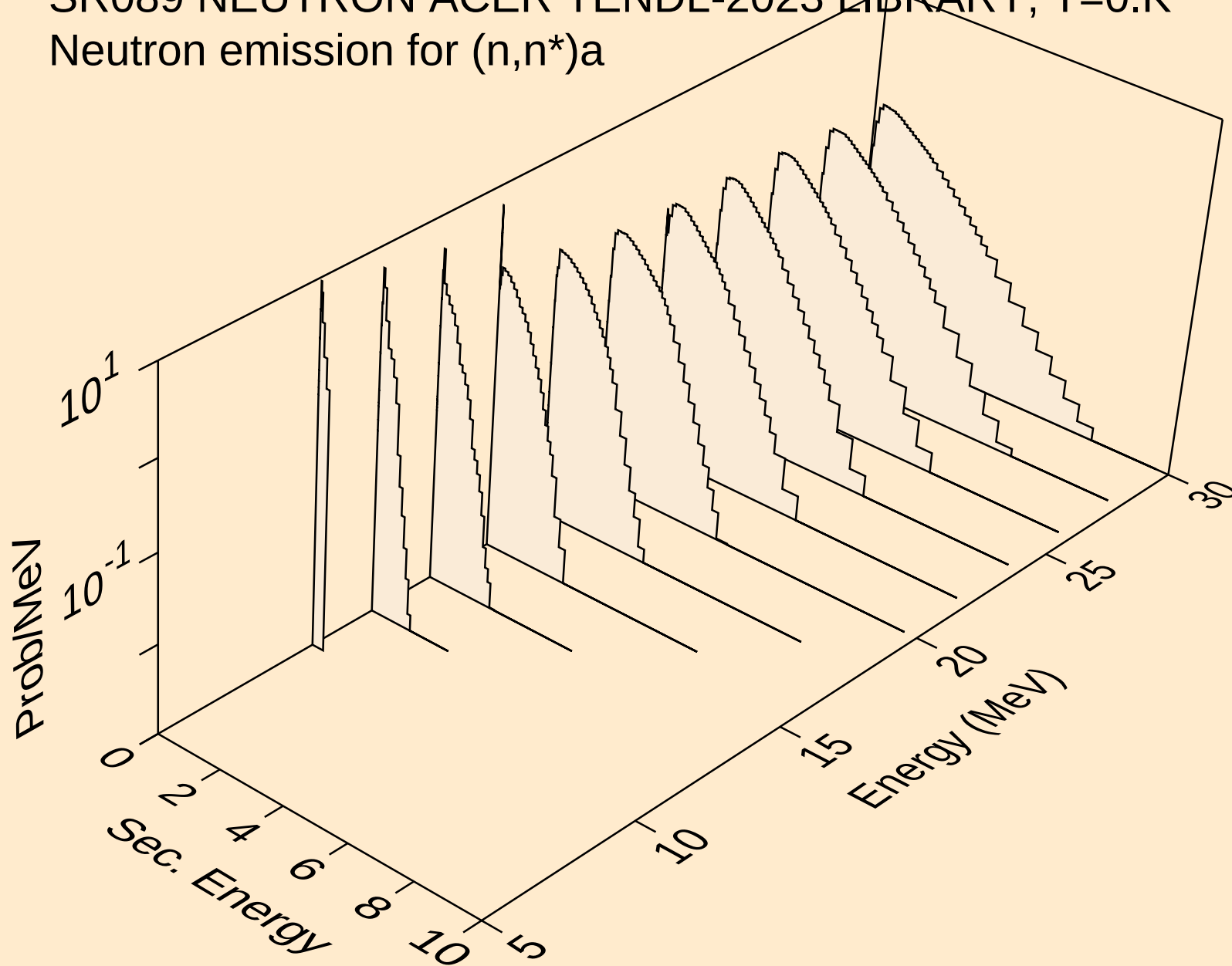
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



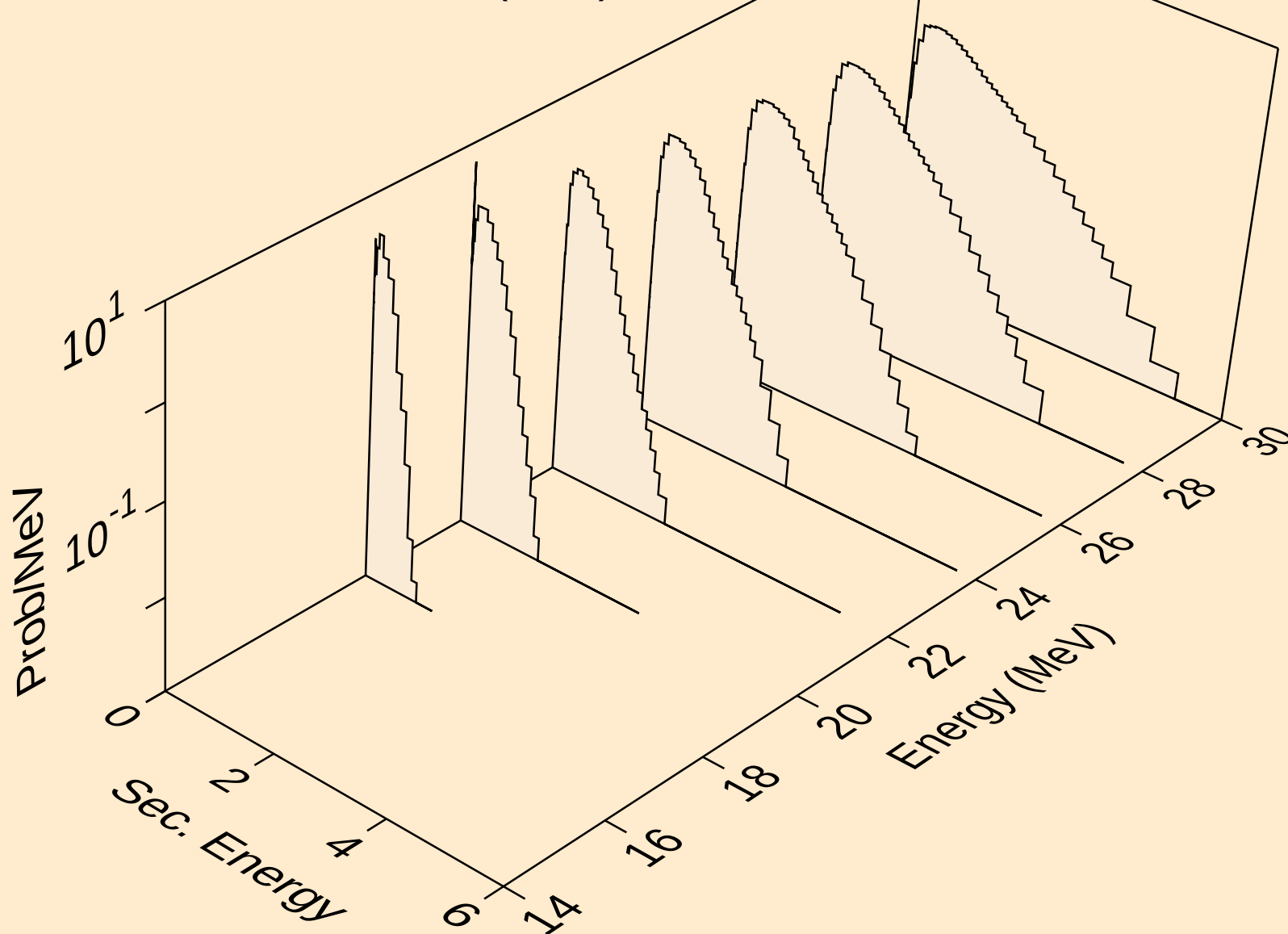
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

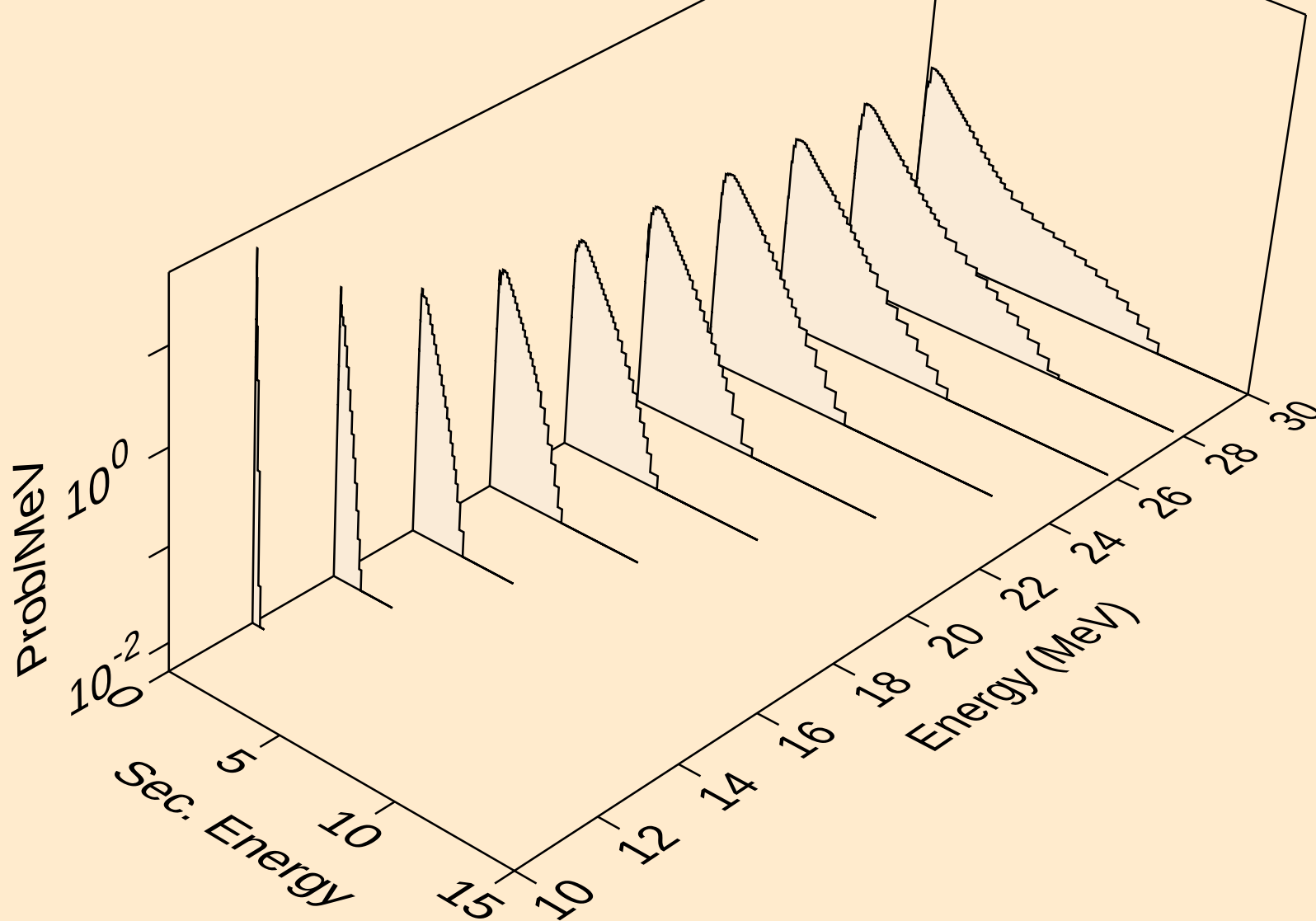


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)<sub>a</sub>

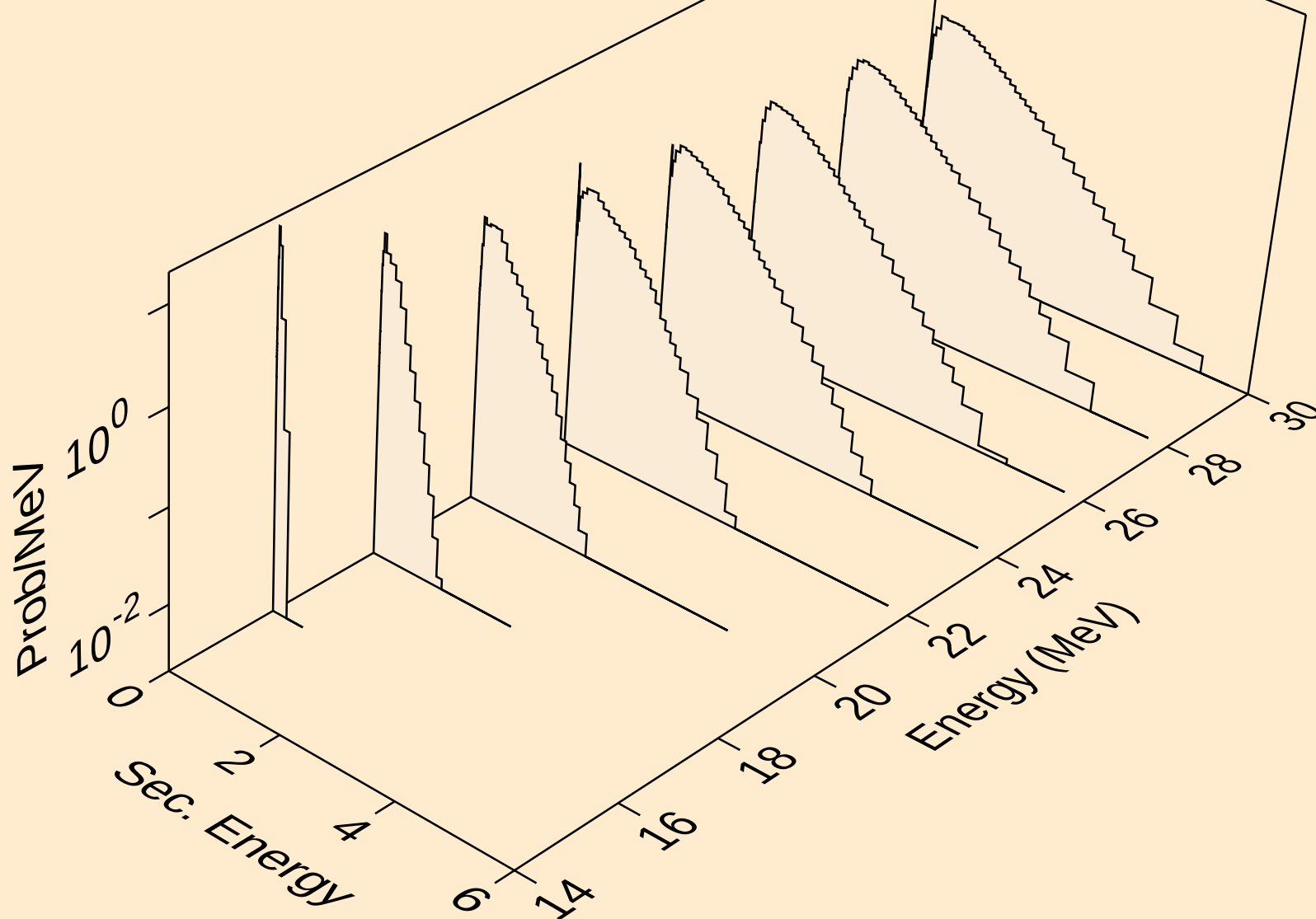




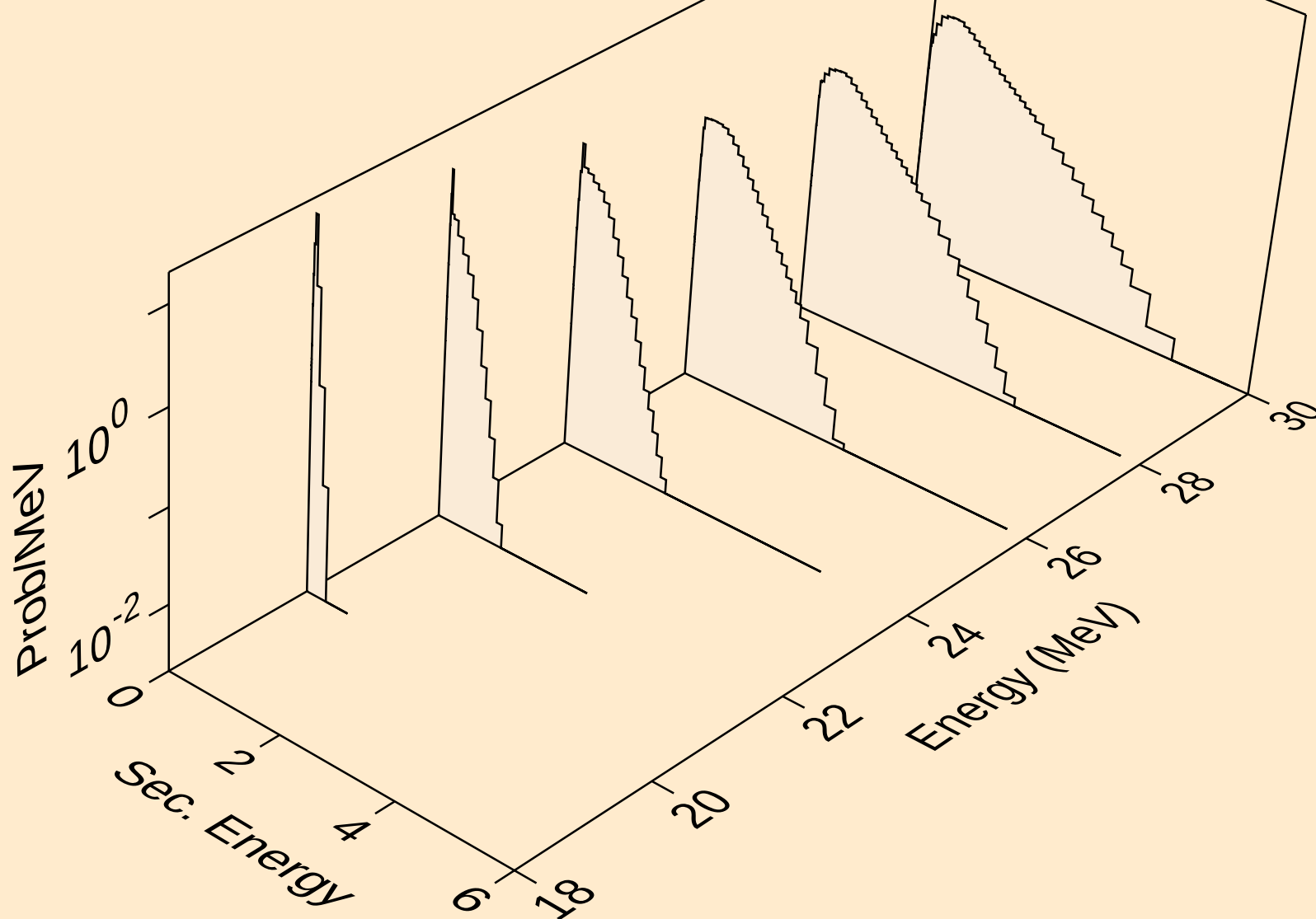
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



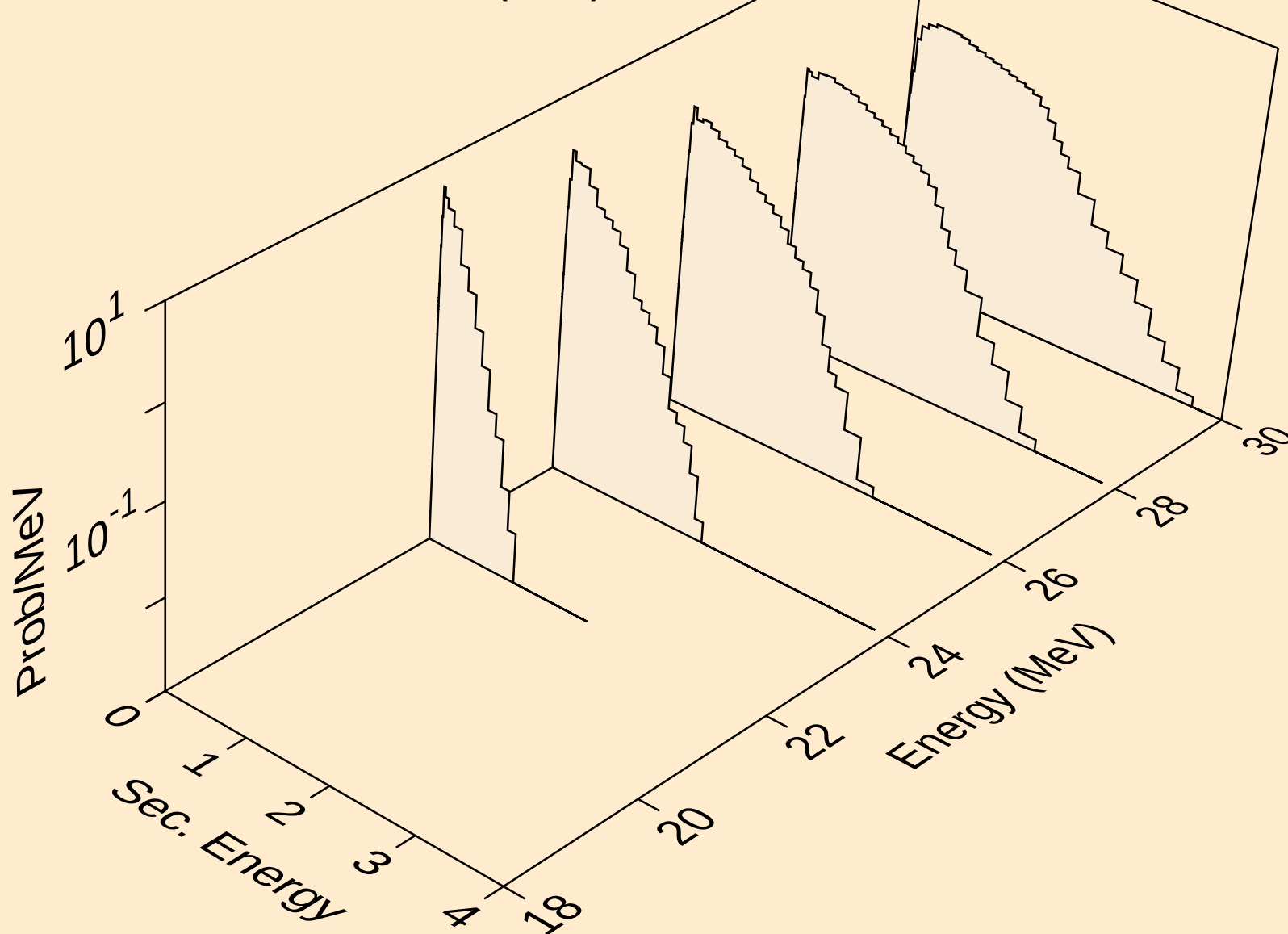
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Neutron emission for (n,n\*)d



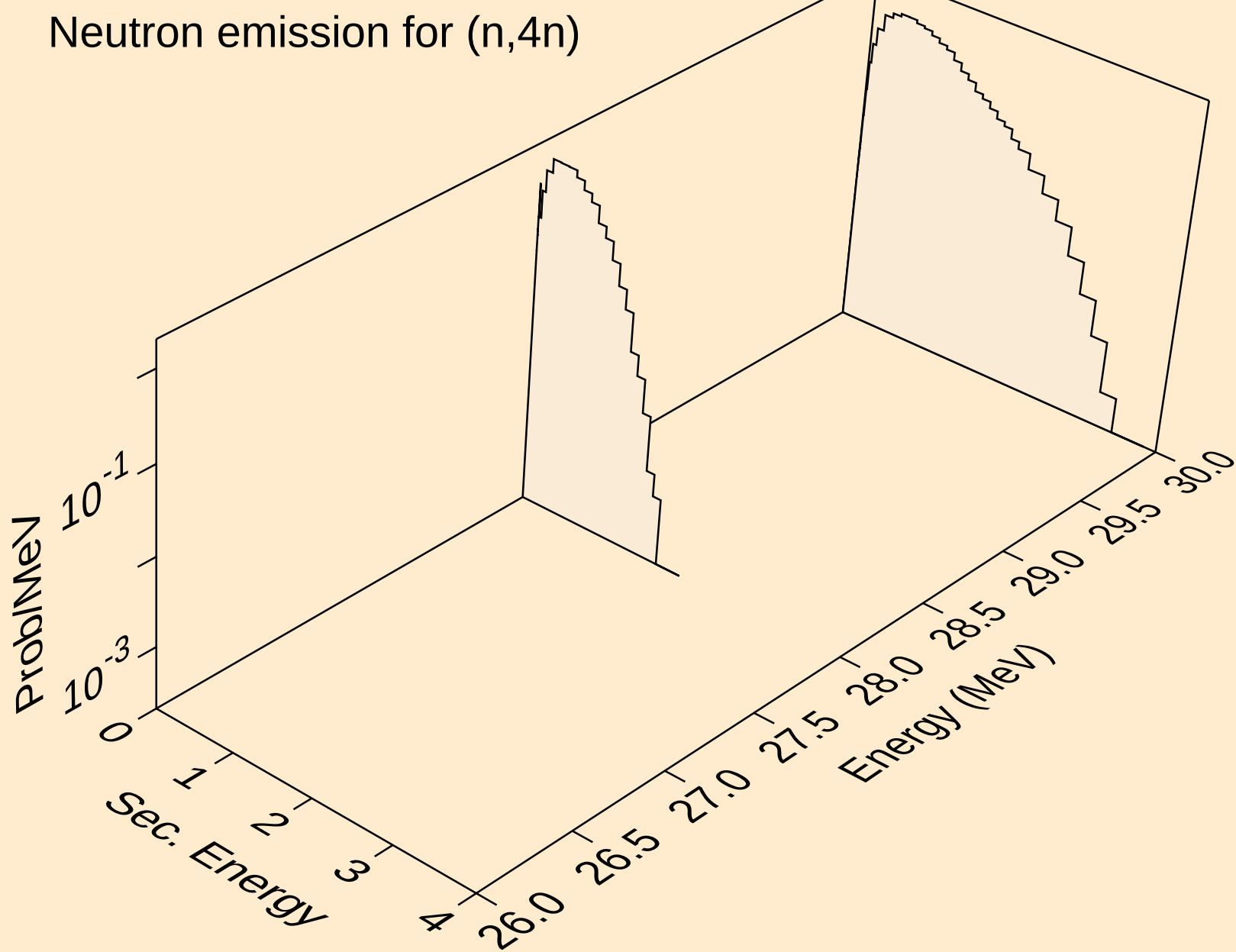
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



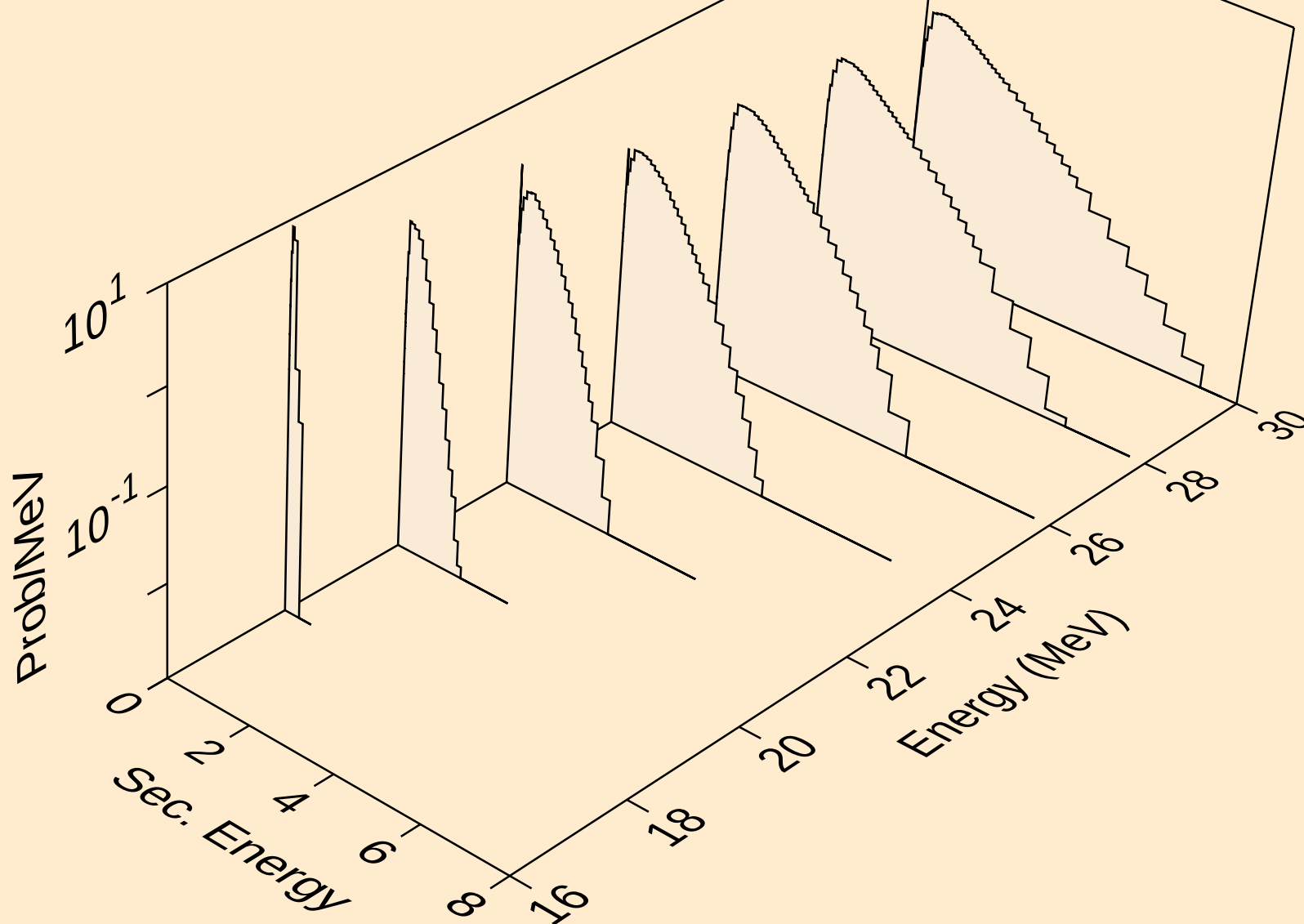
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



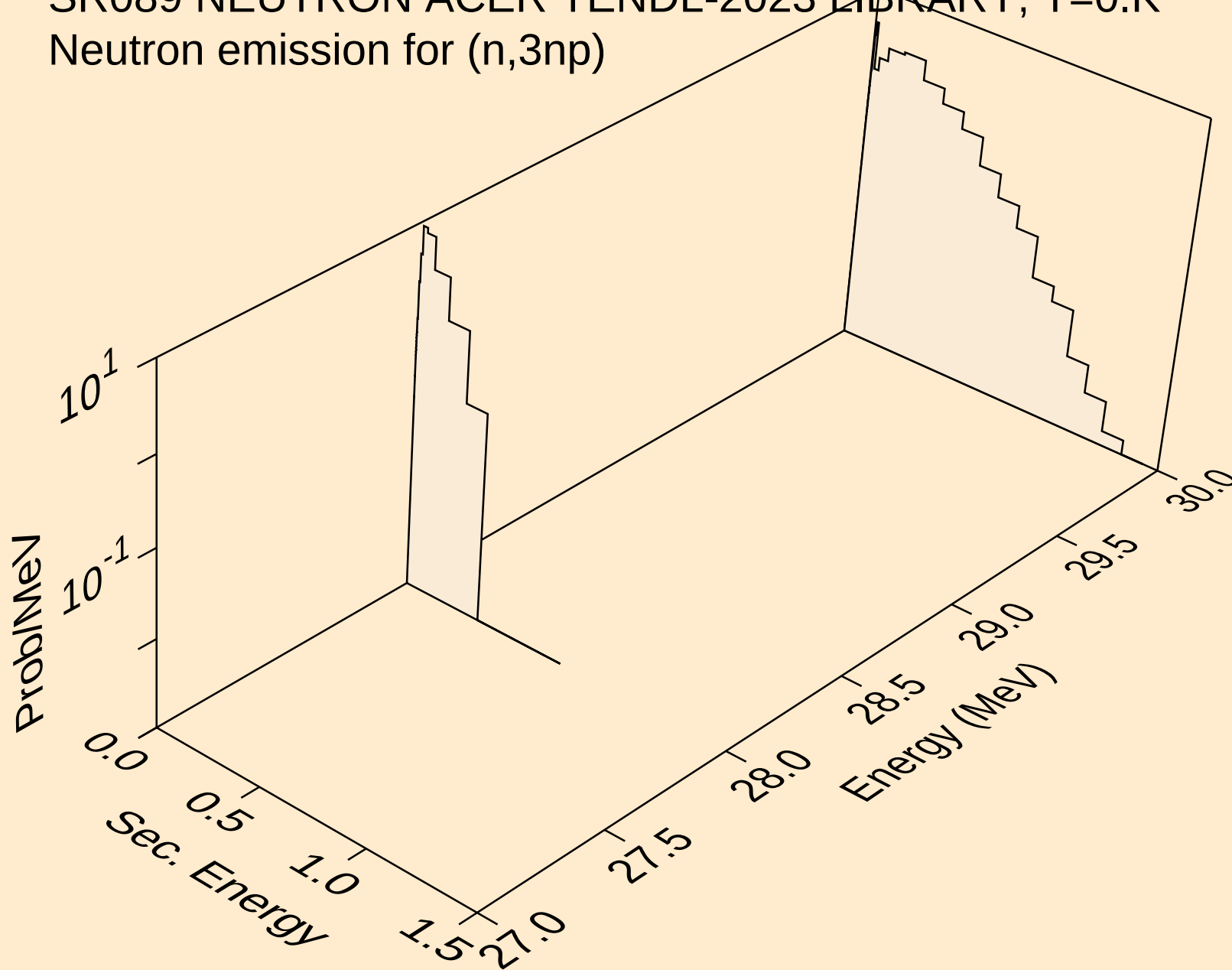
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Neutron emission for (n,4n)



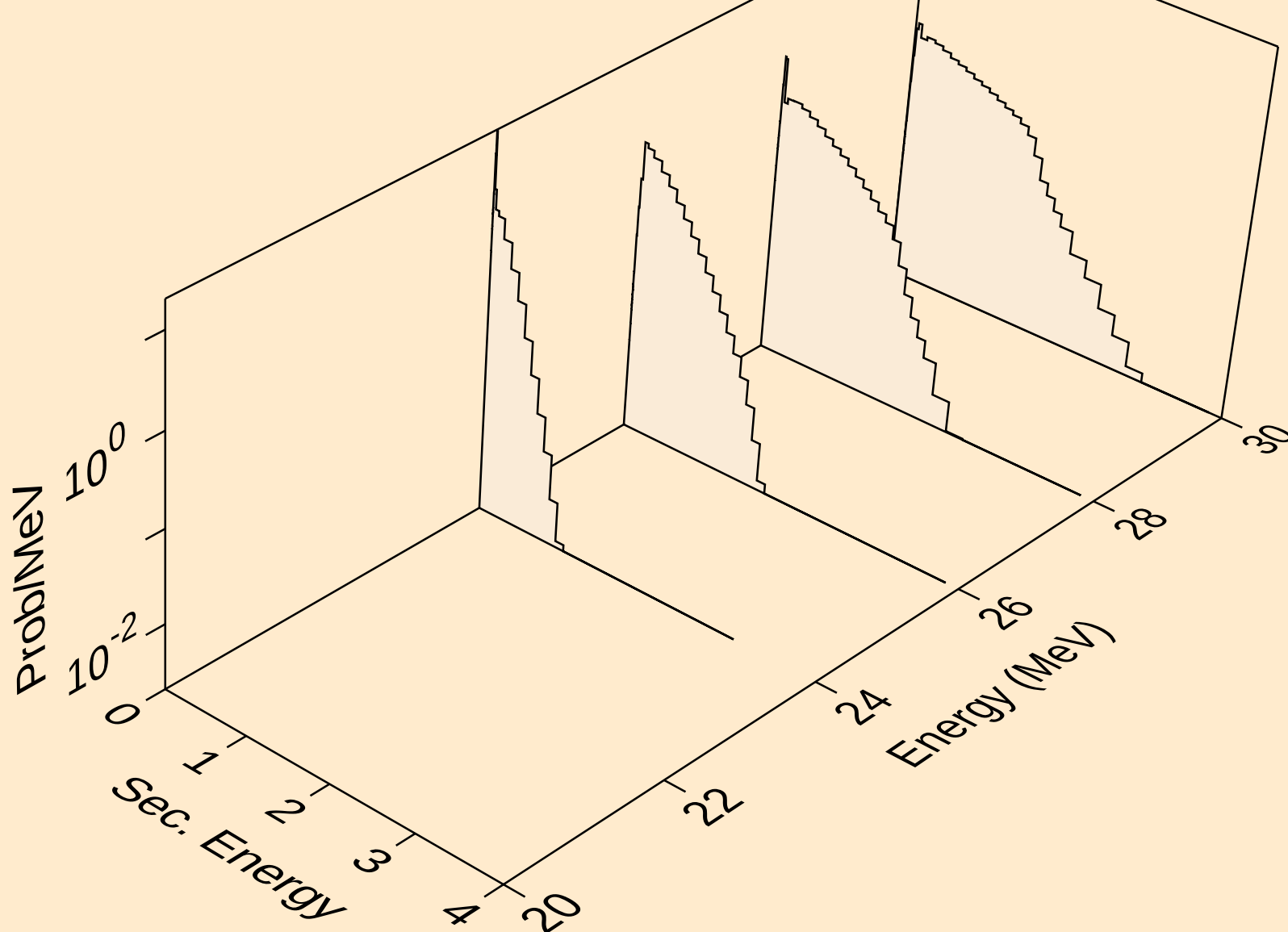
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)

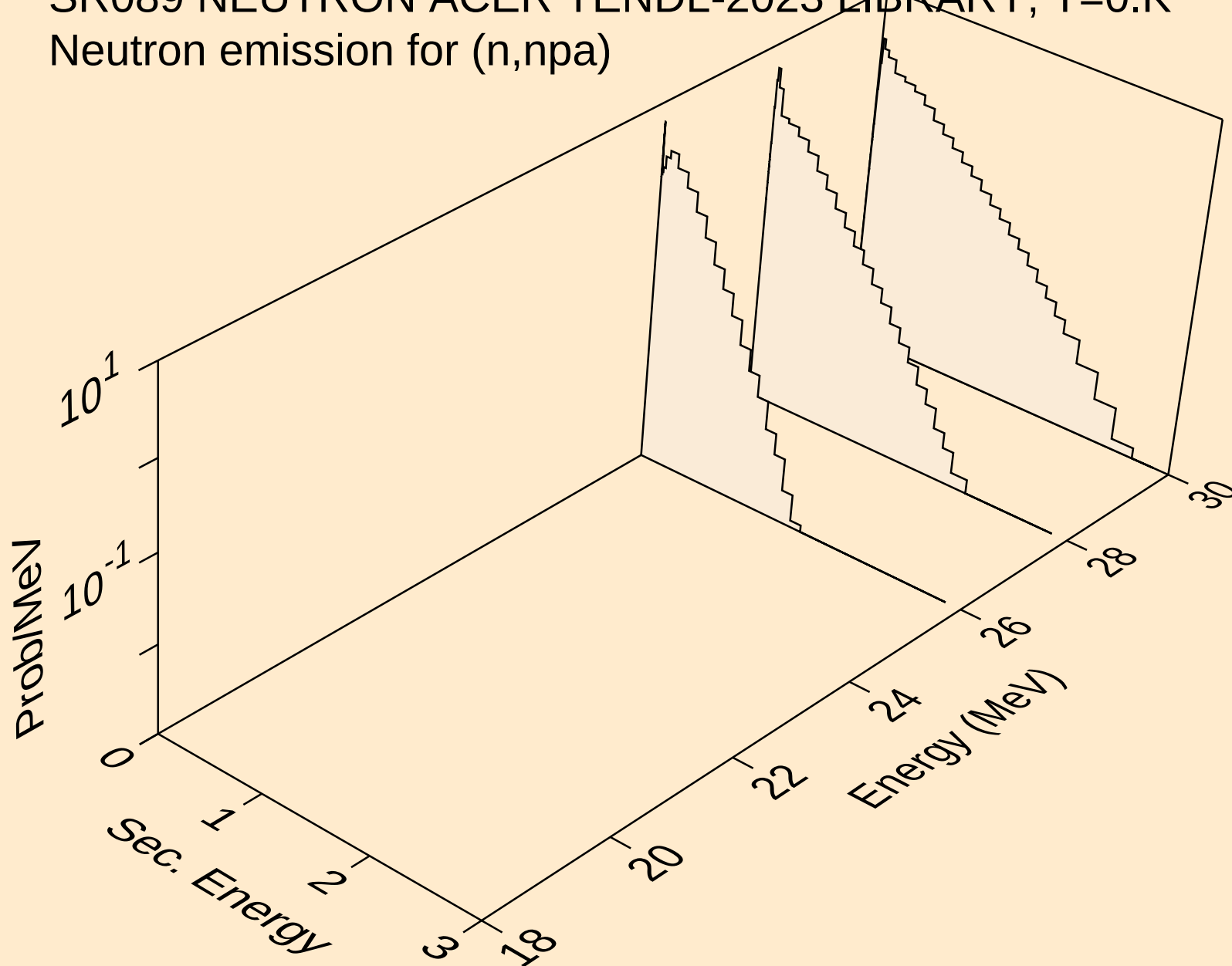


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Neutron emission for (n,n2p)

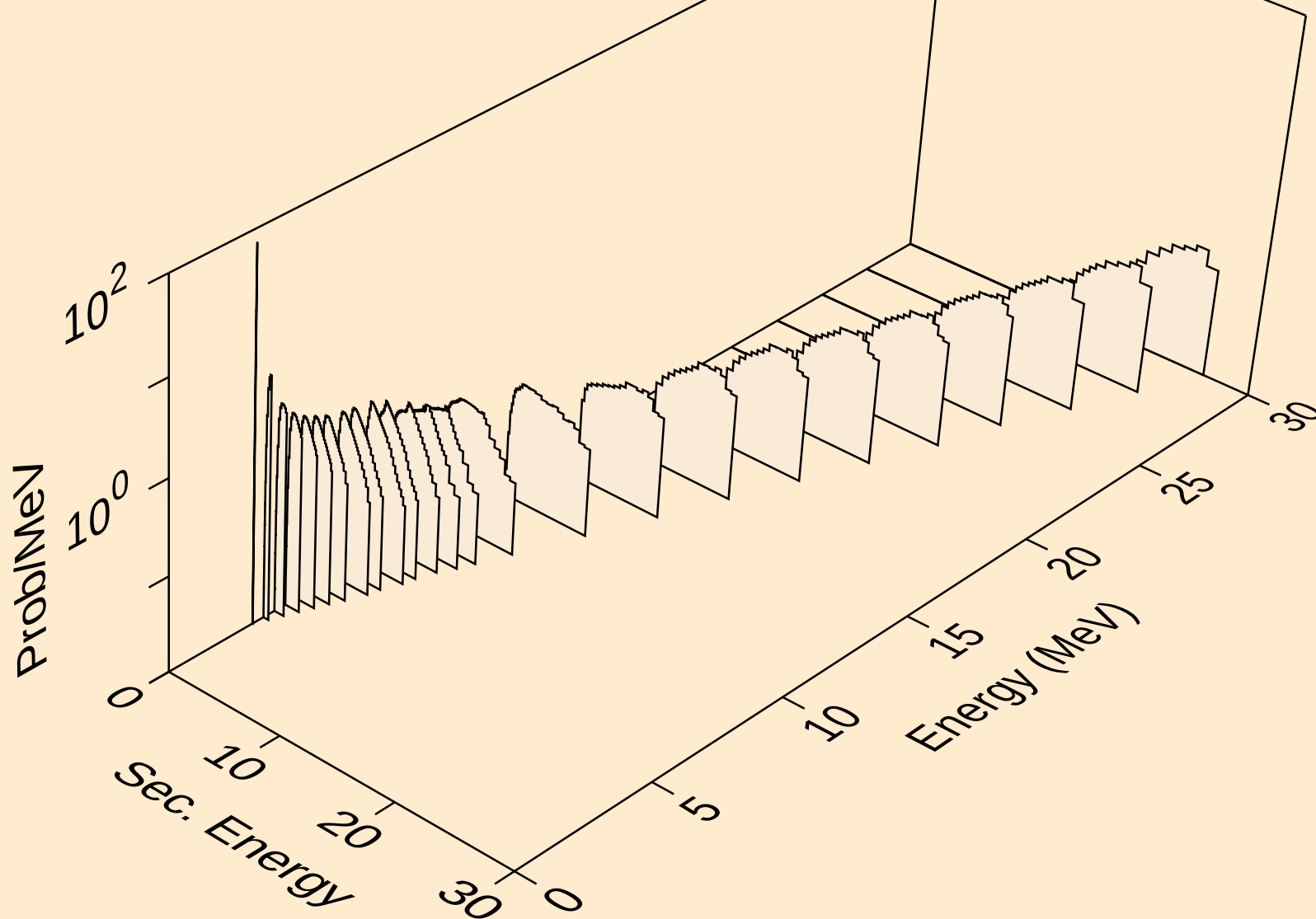




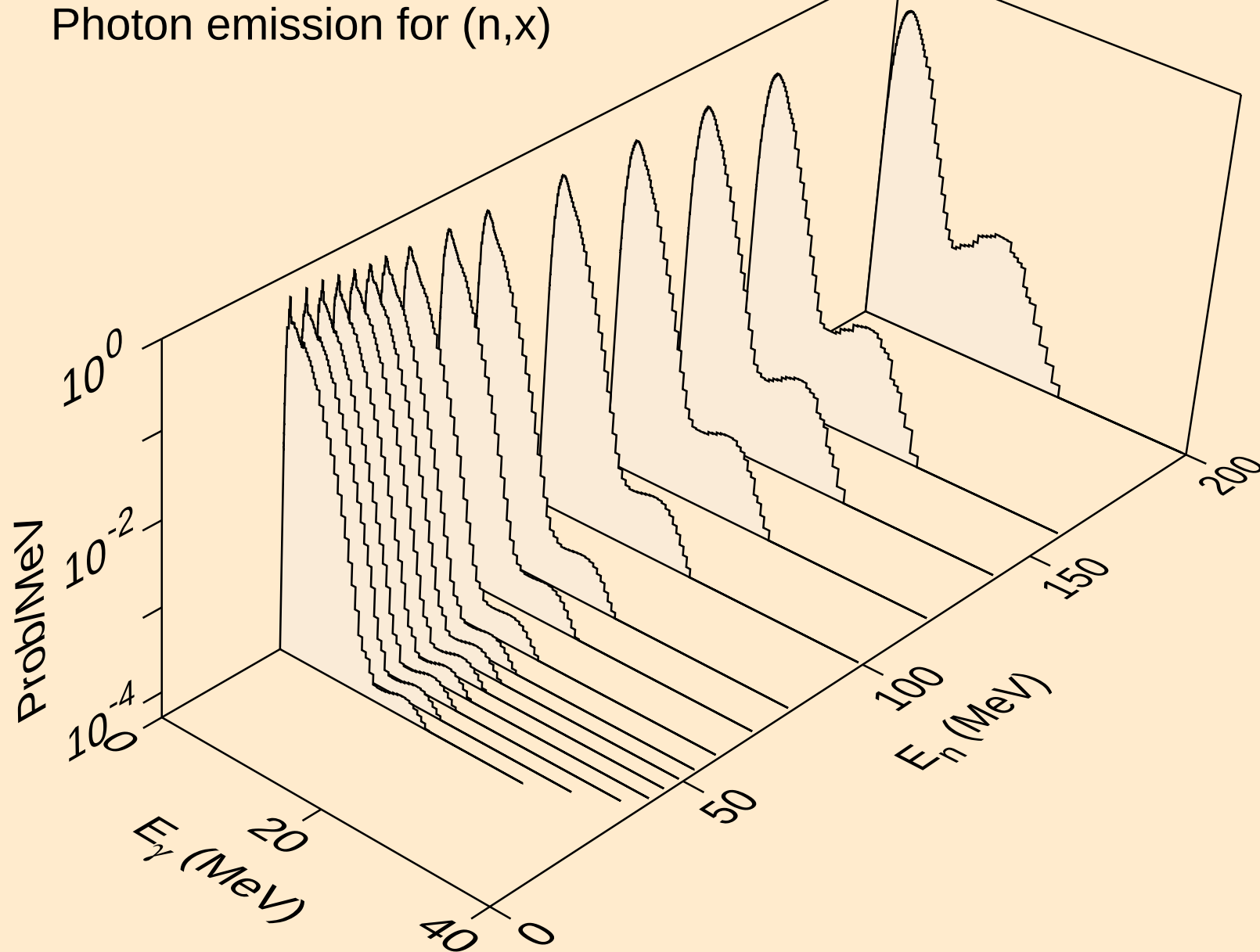
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Neutron emission for (n,npa)



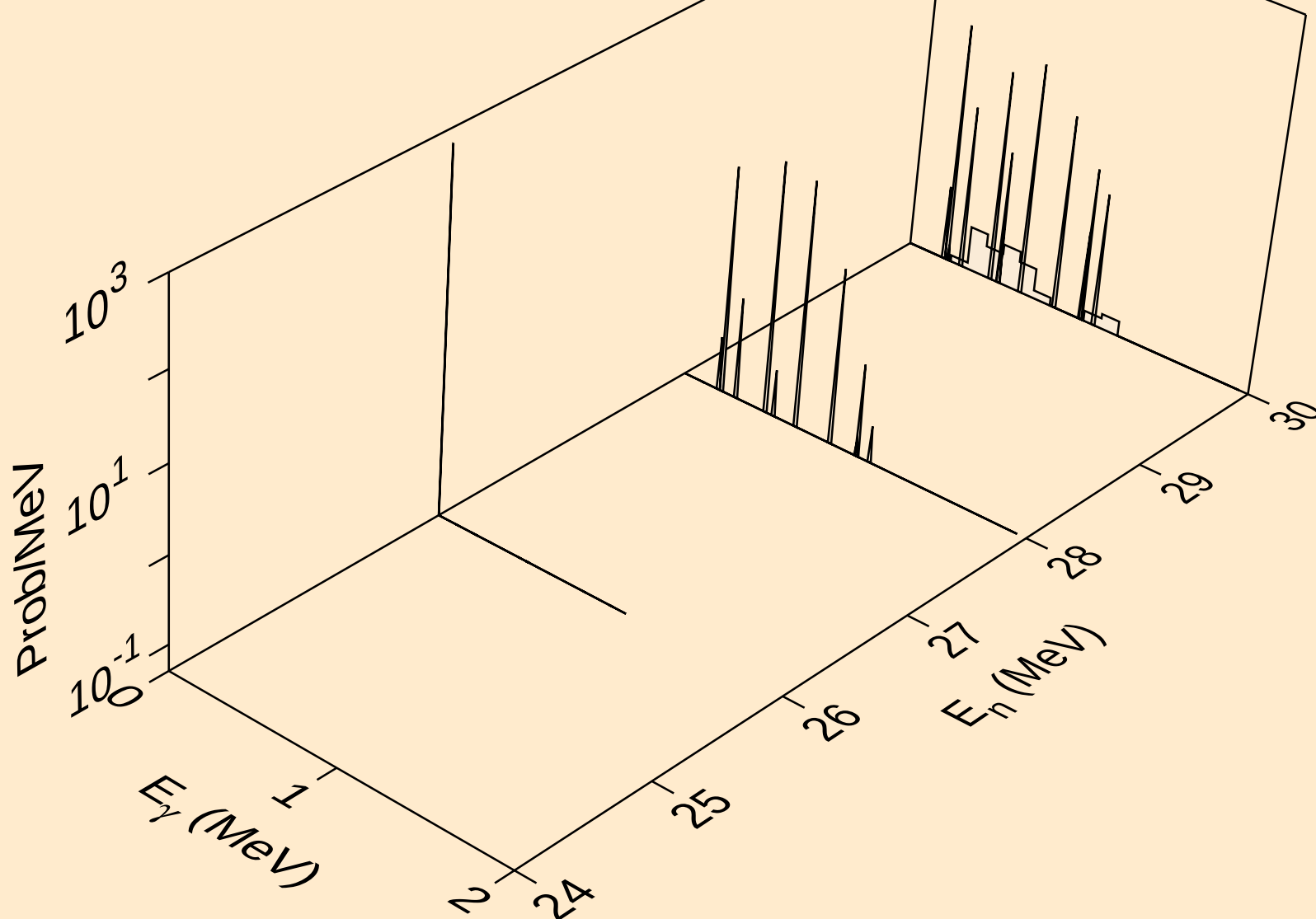
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



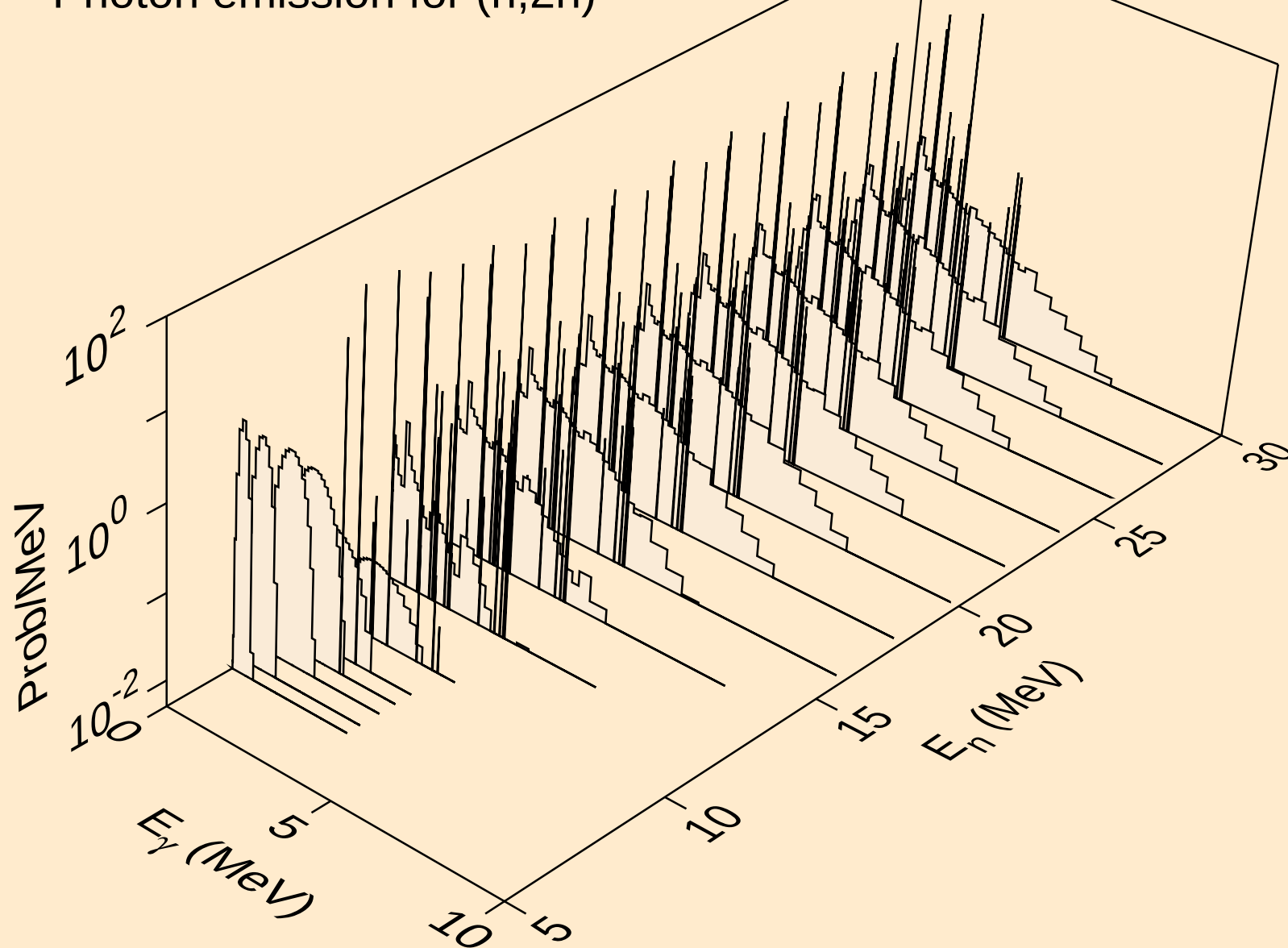
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



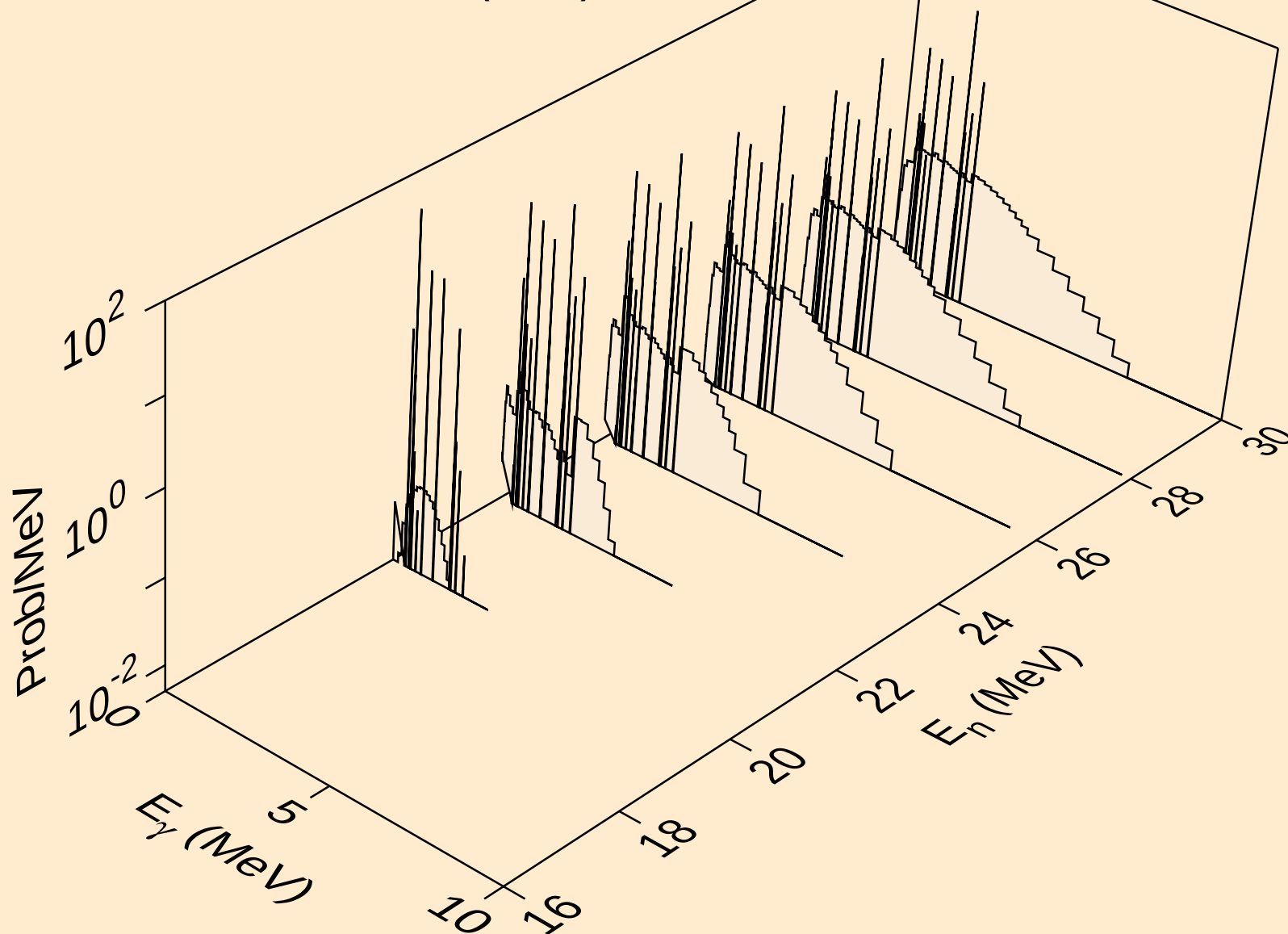
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Photon emission for (n,2nd)



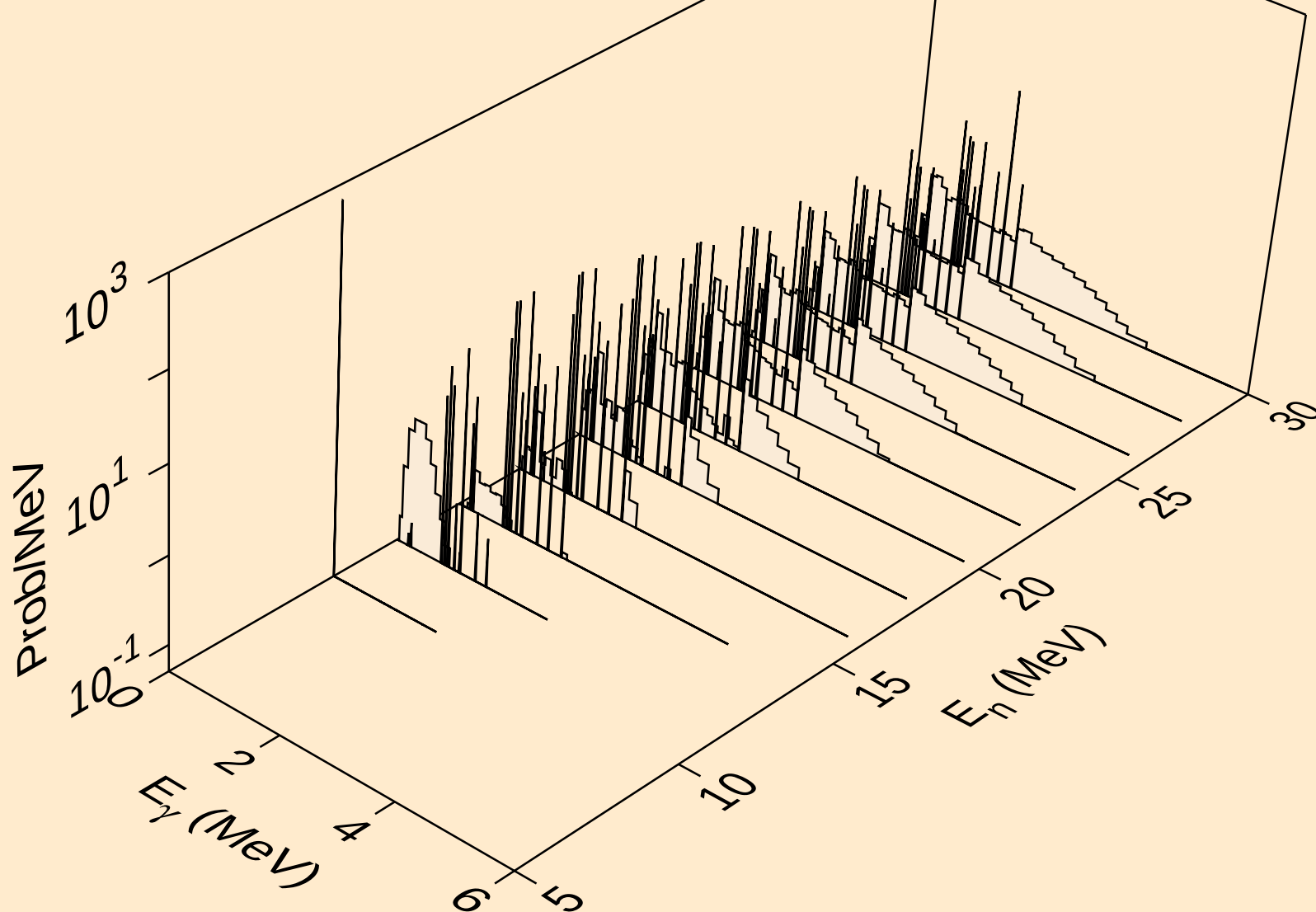
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Photon emission for (n,2n)



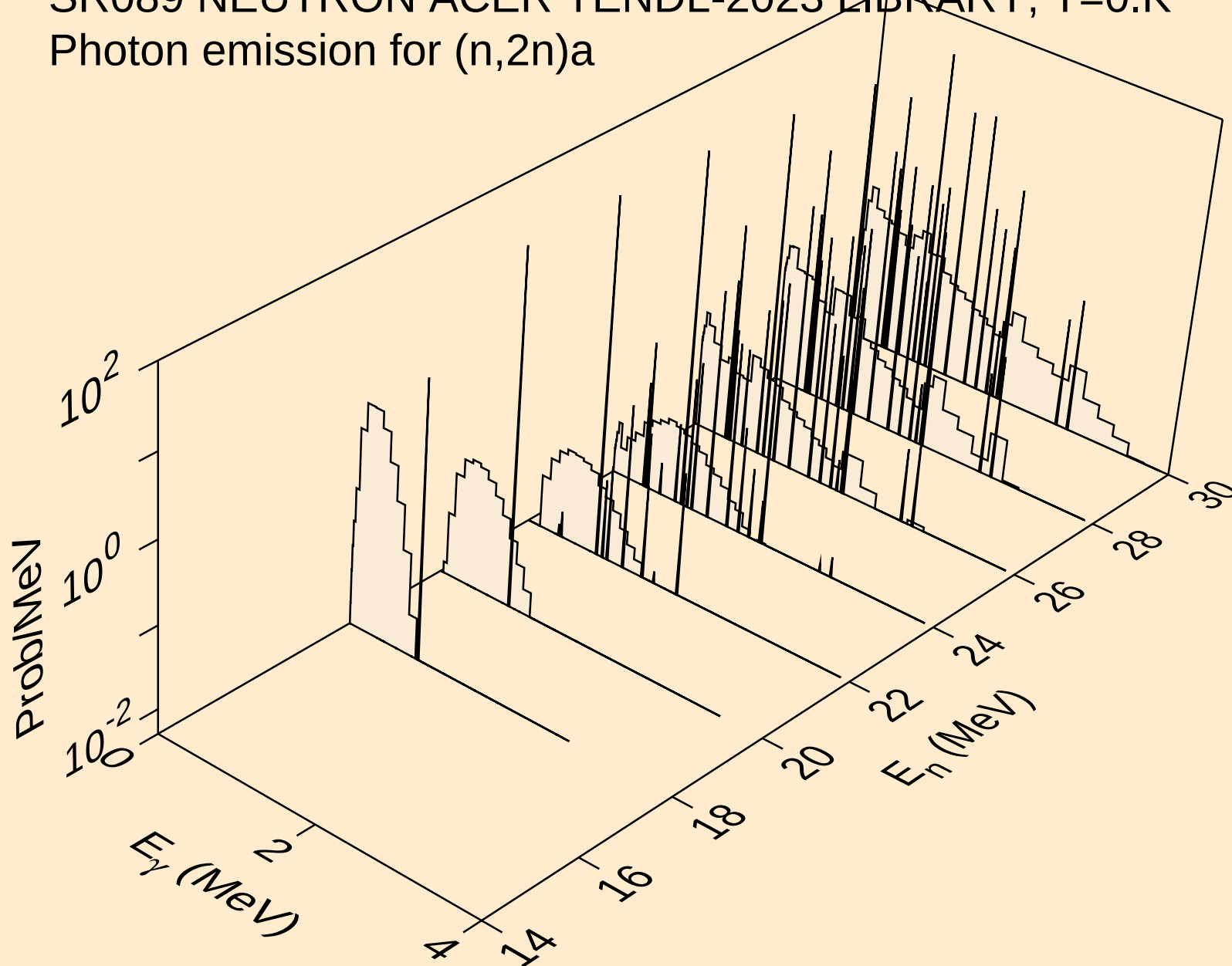
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

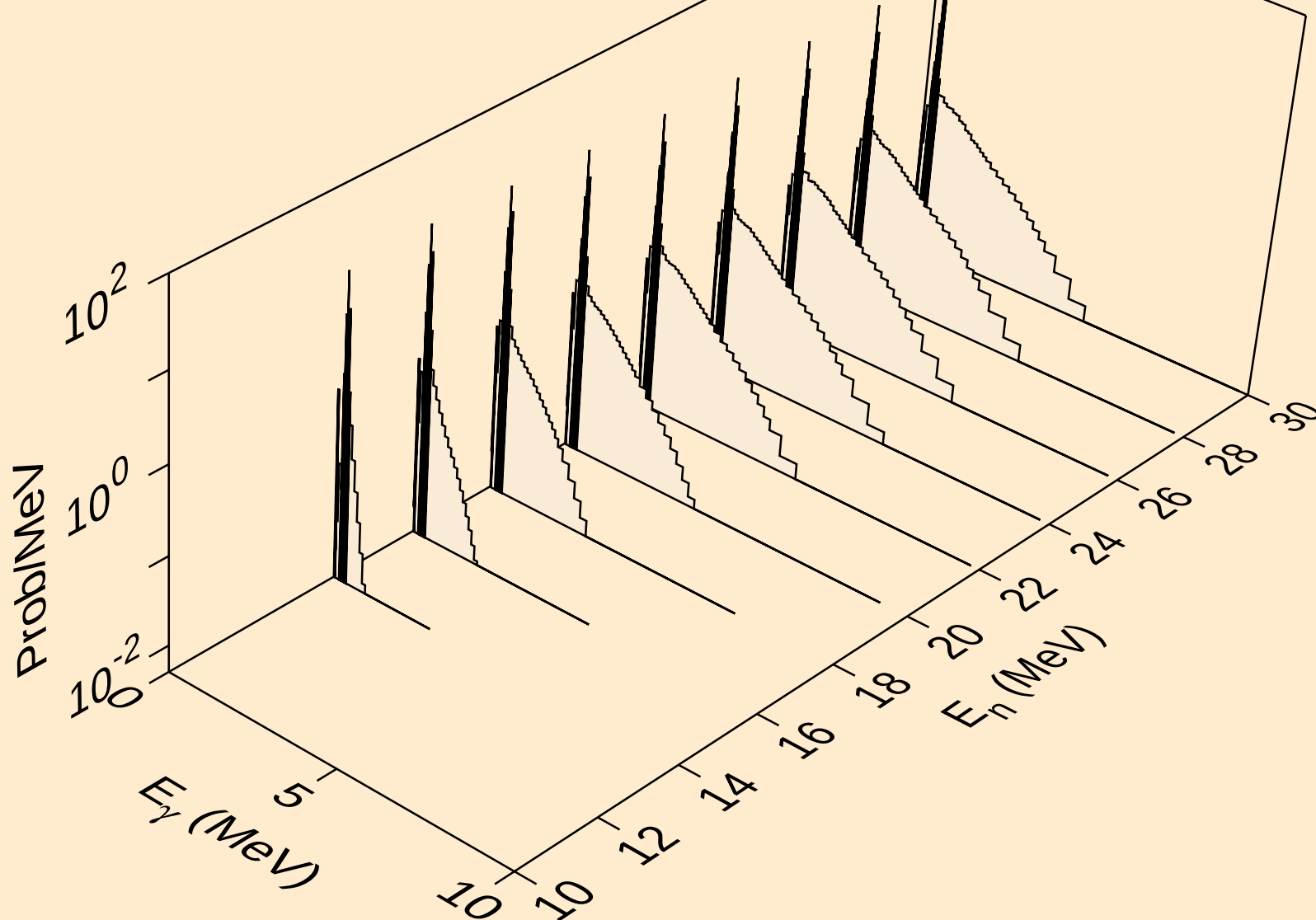


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n) $\alpha$

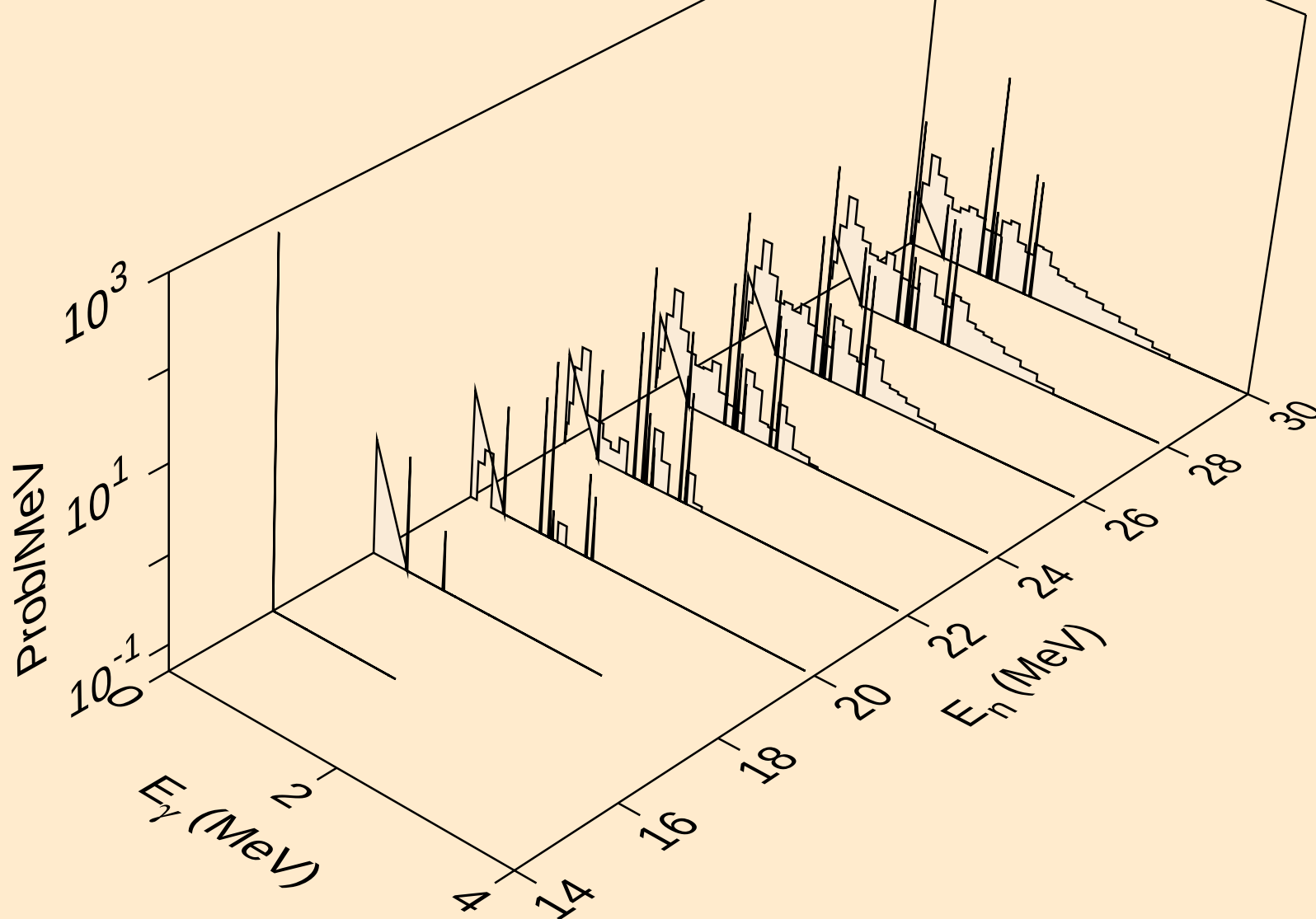




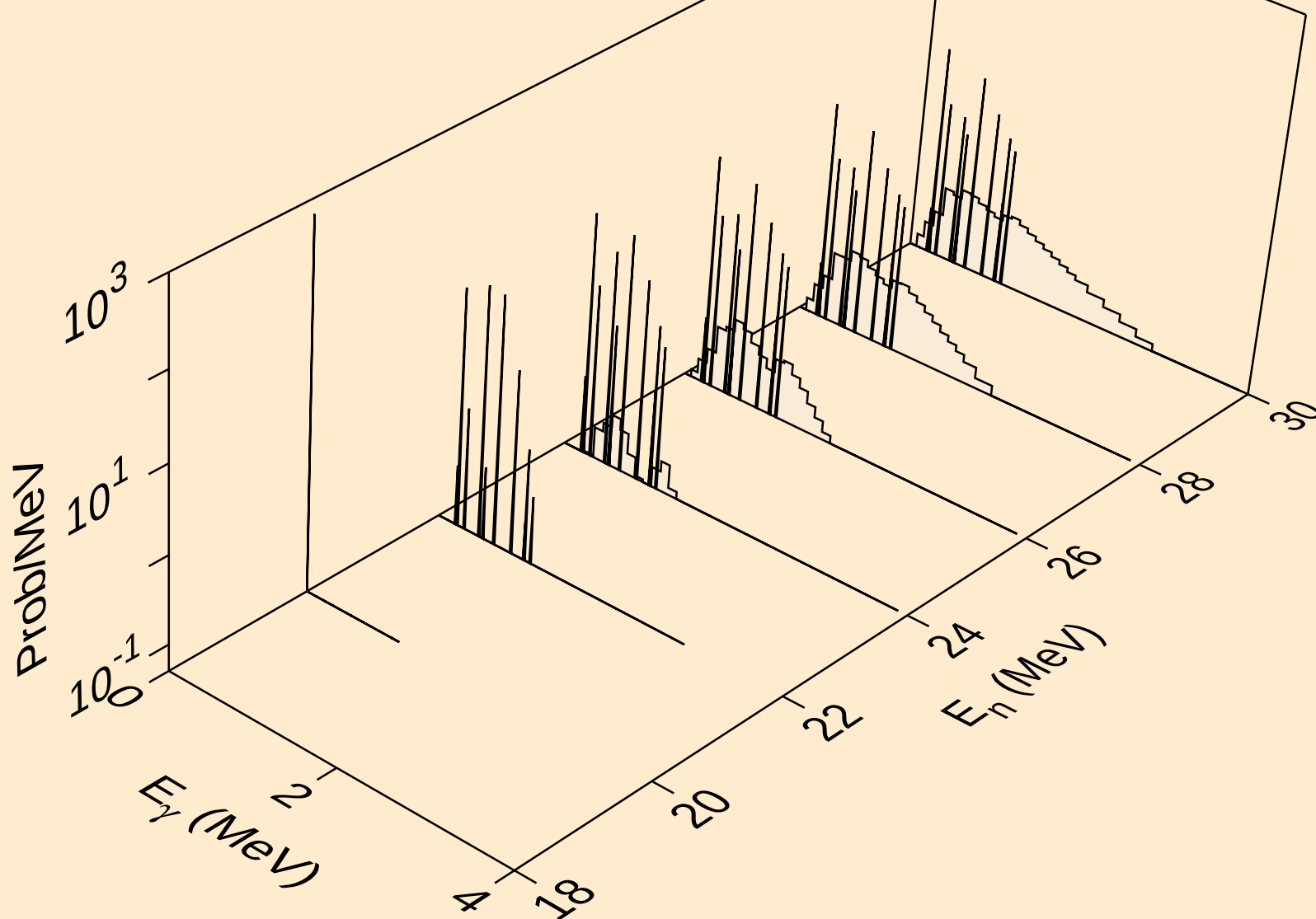
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Photon emission for (n,n\*)p



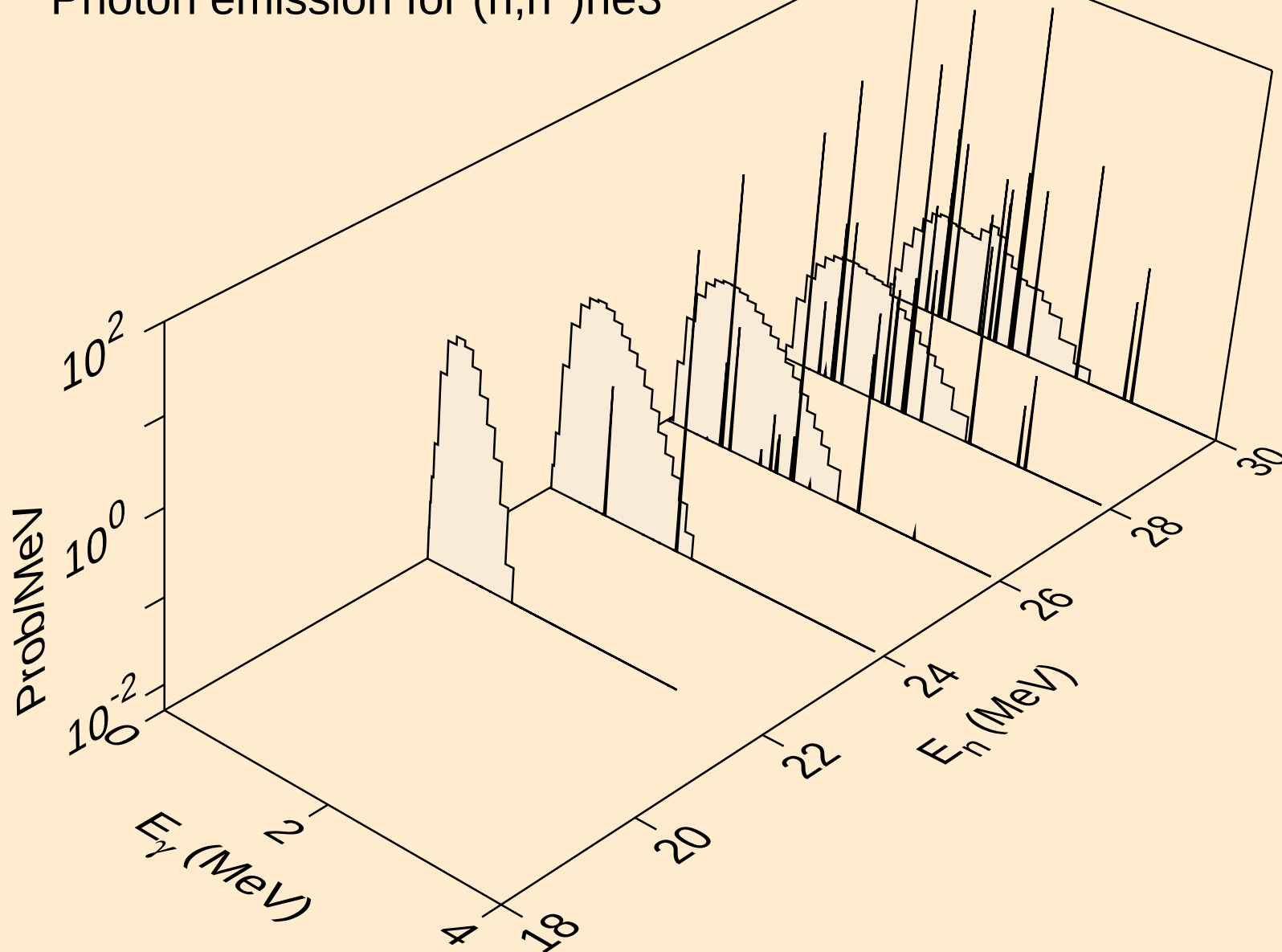
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Photon emission for (n,n\*)d



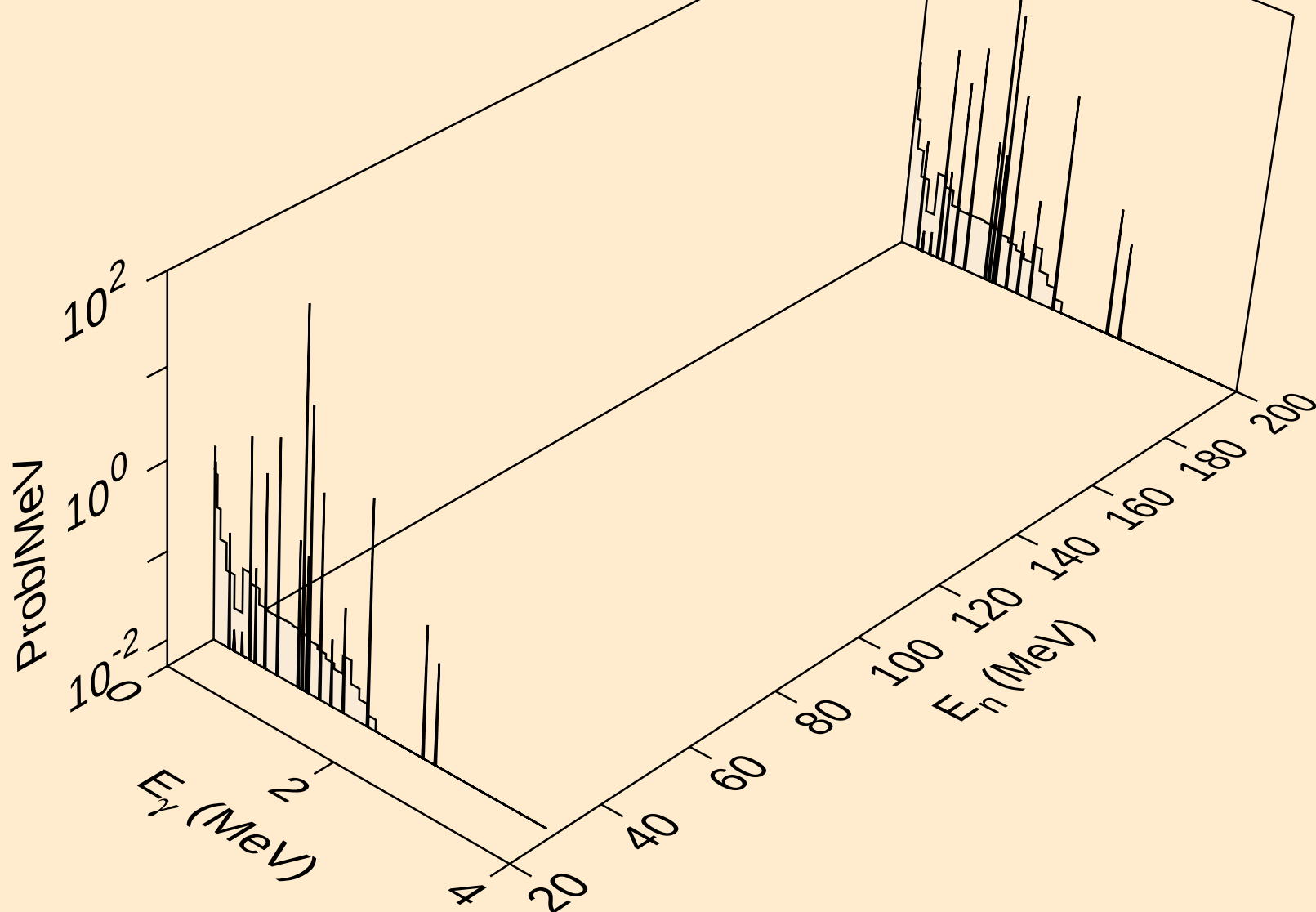
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Photon emission for (n,n\*)t



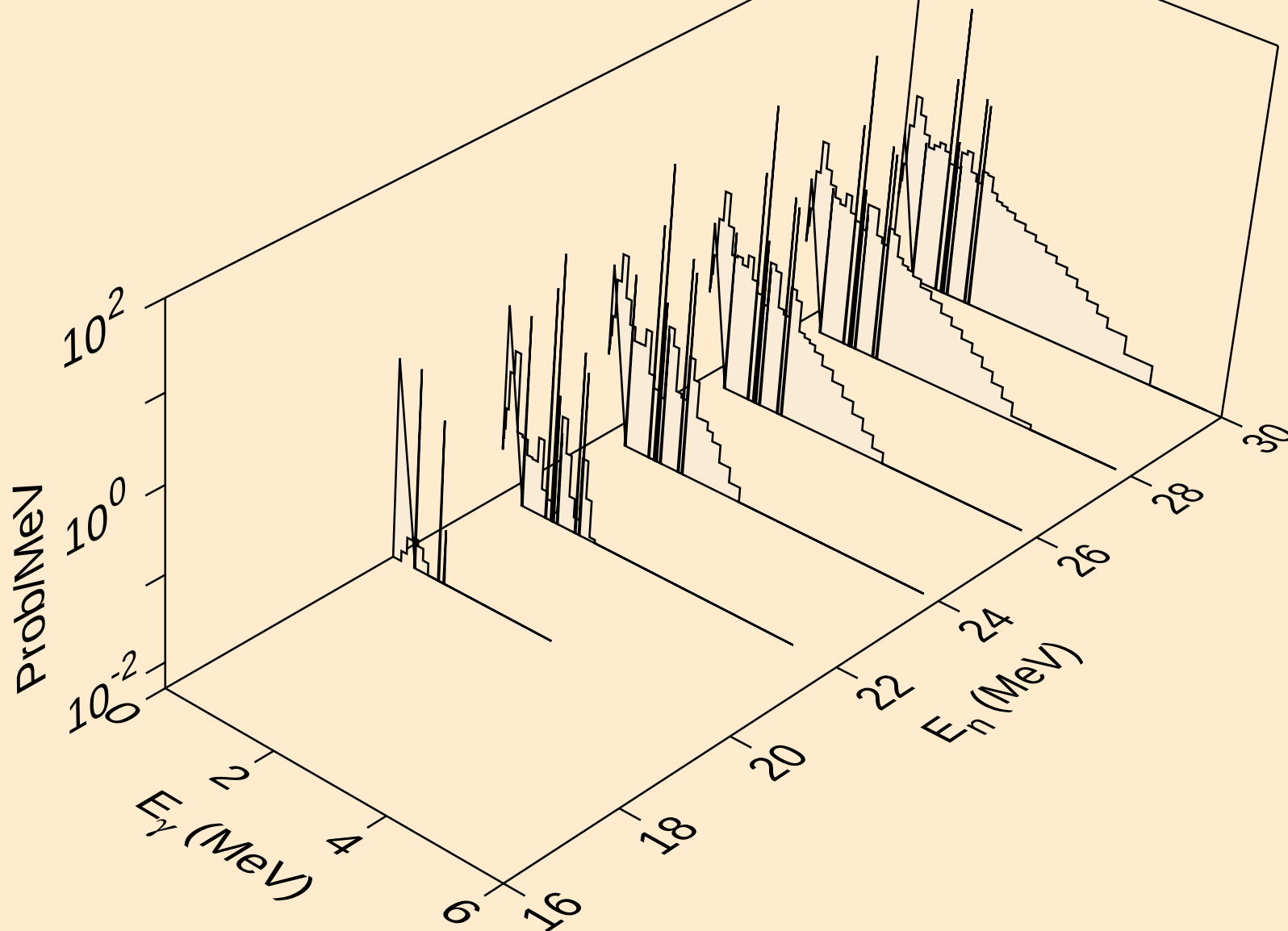
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



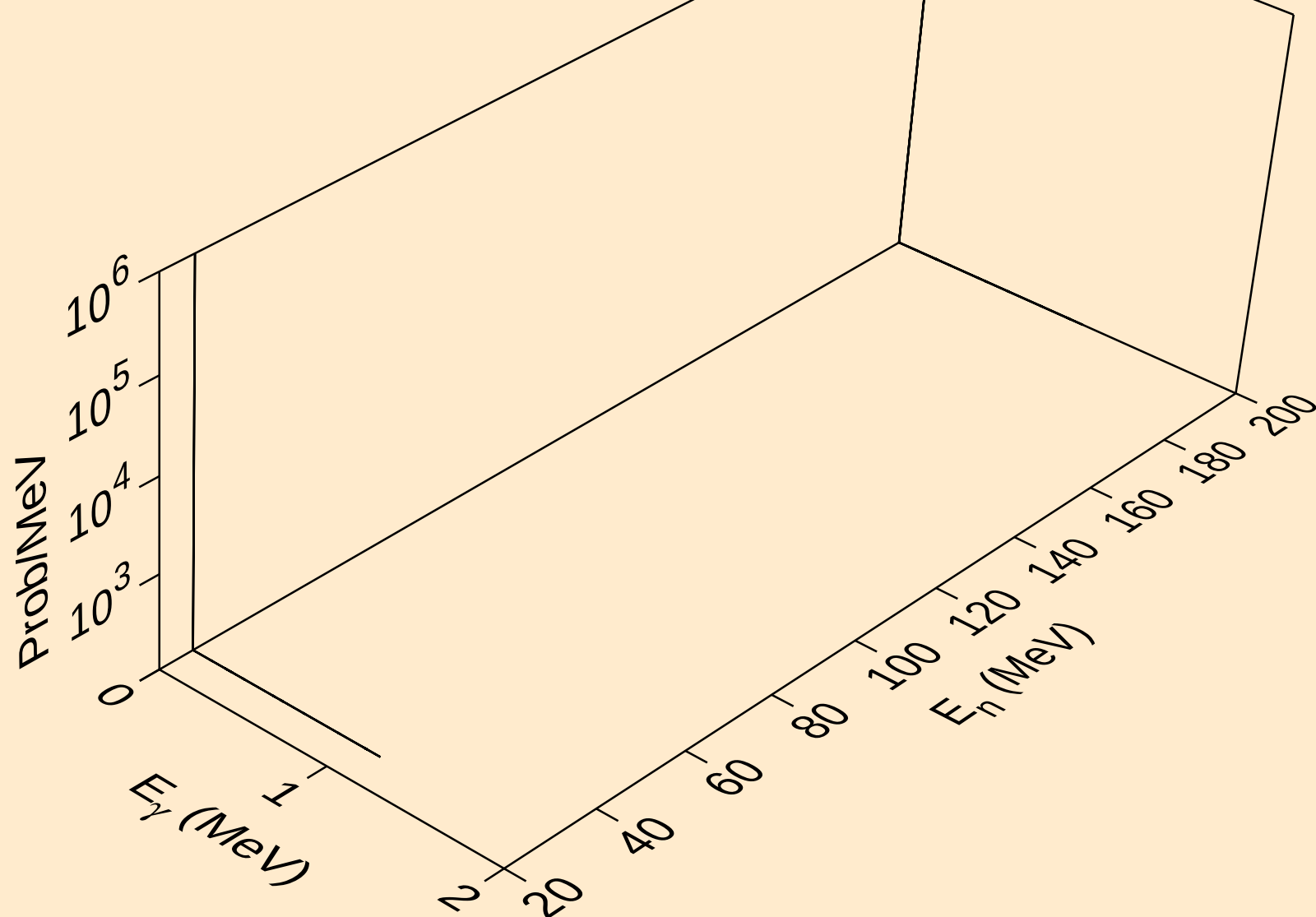
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



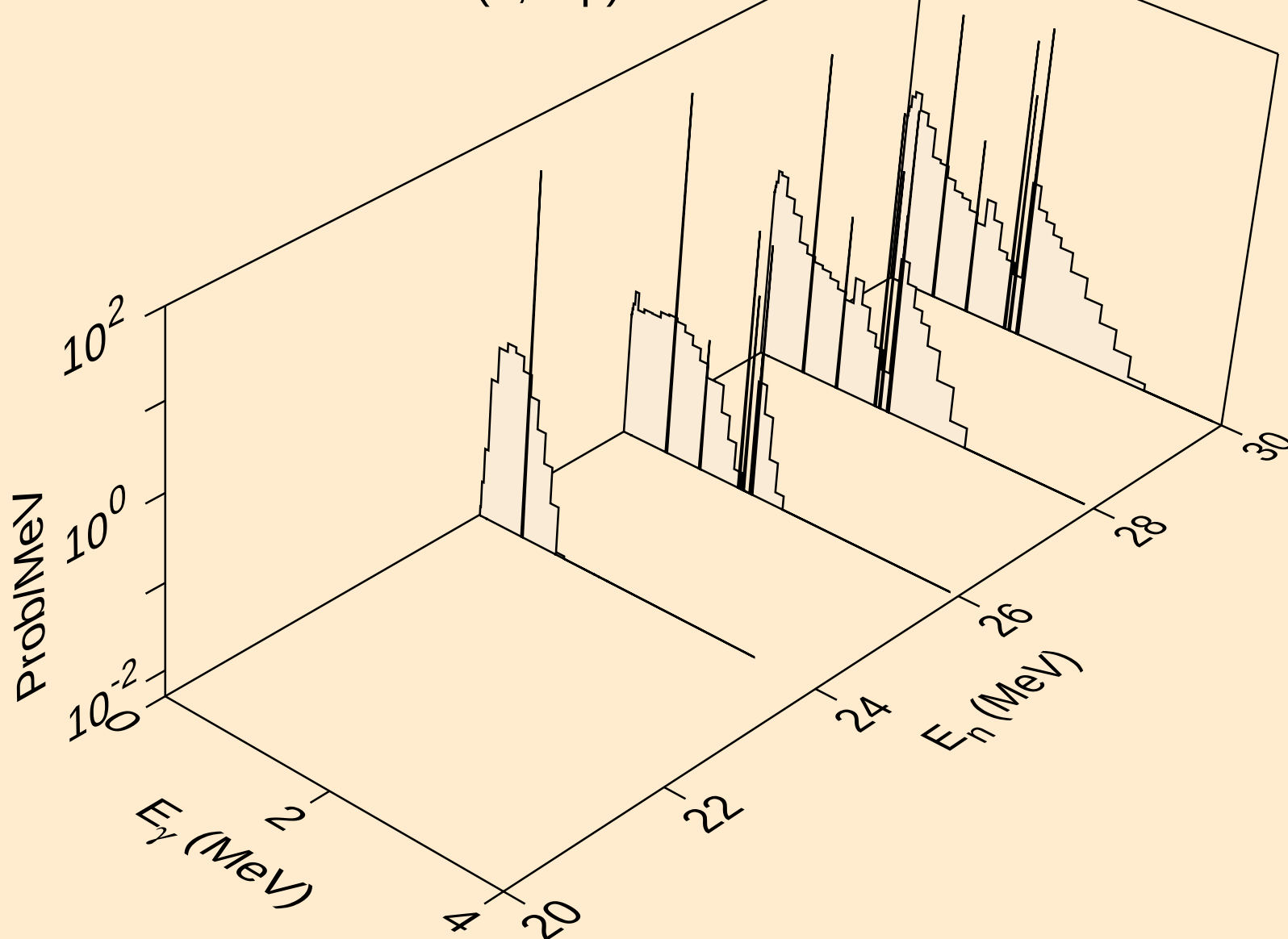
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)

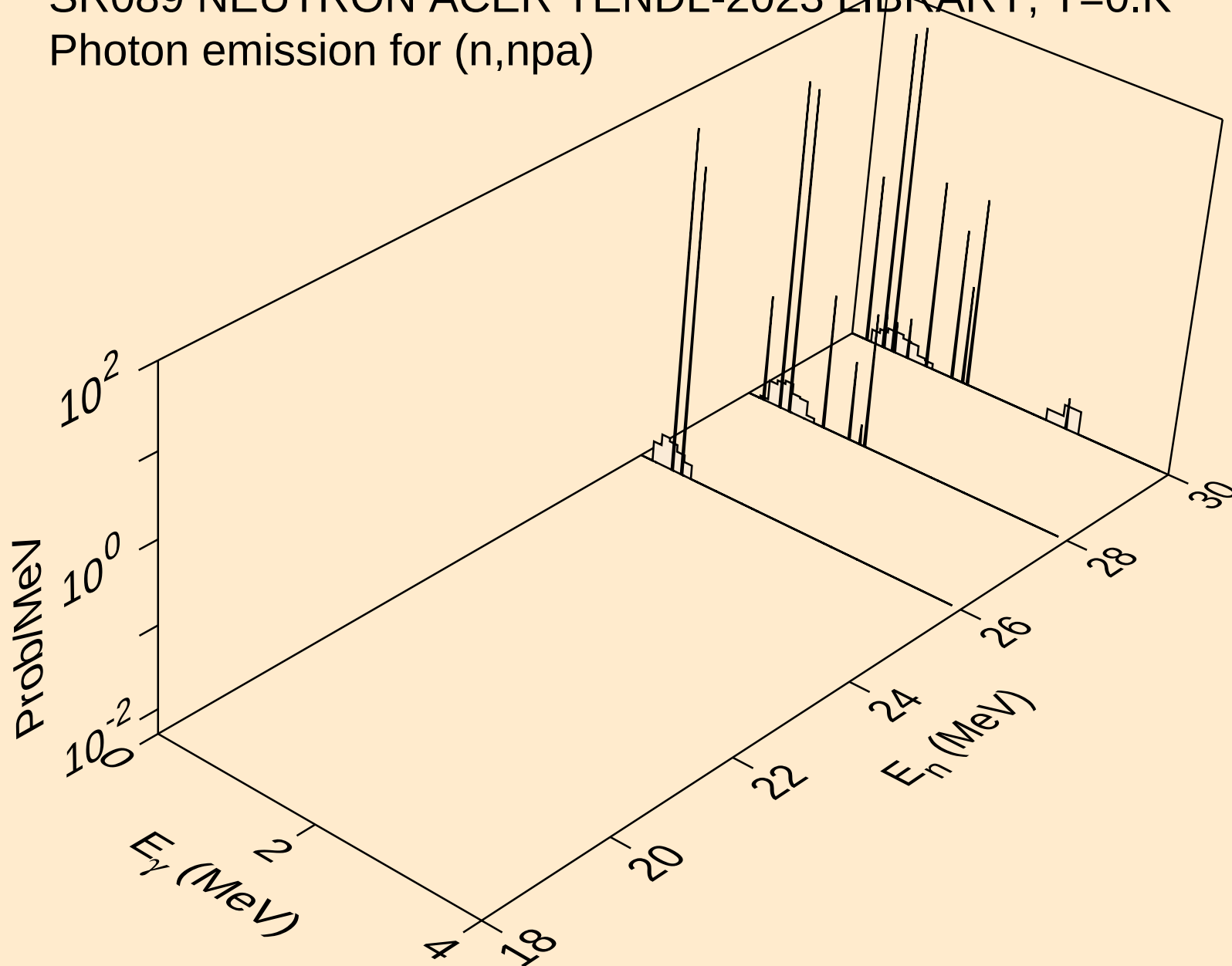


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)

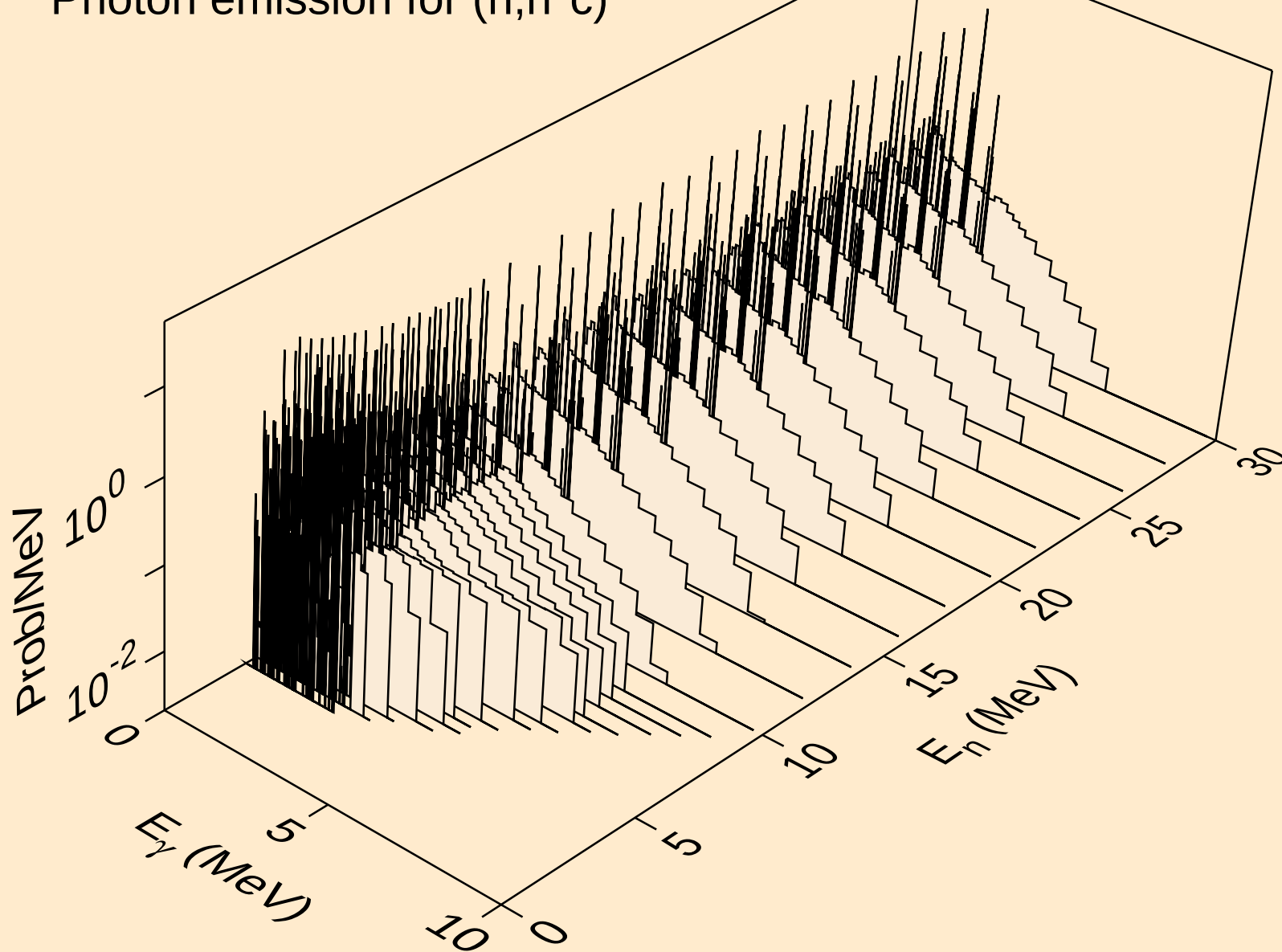




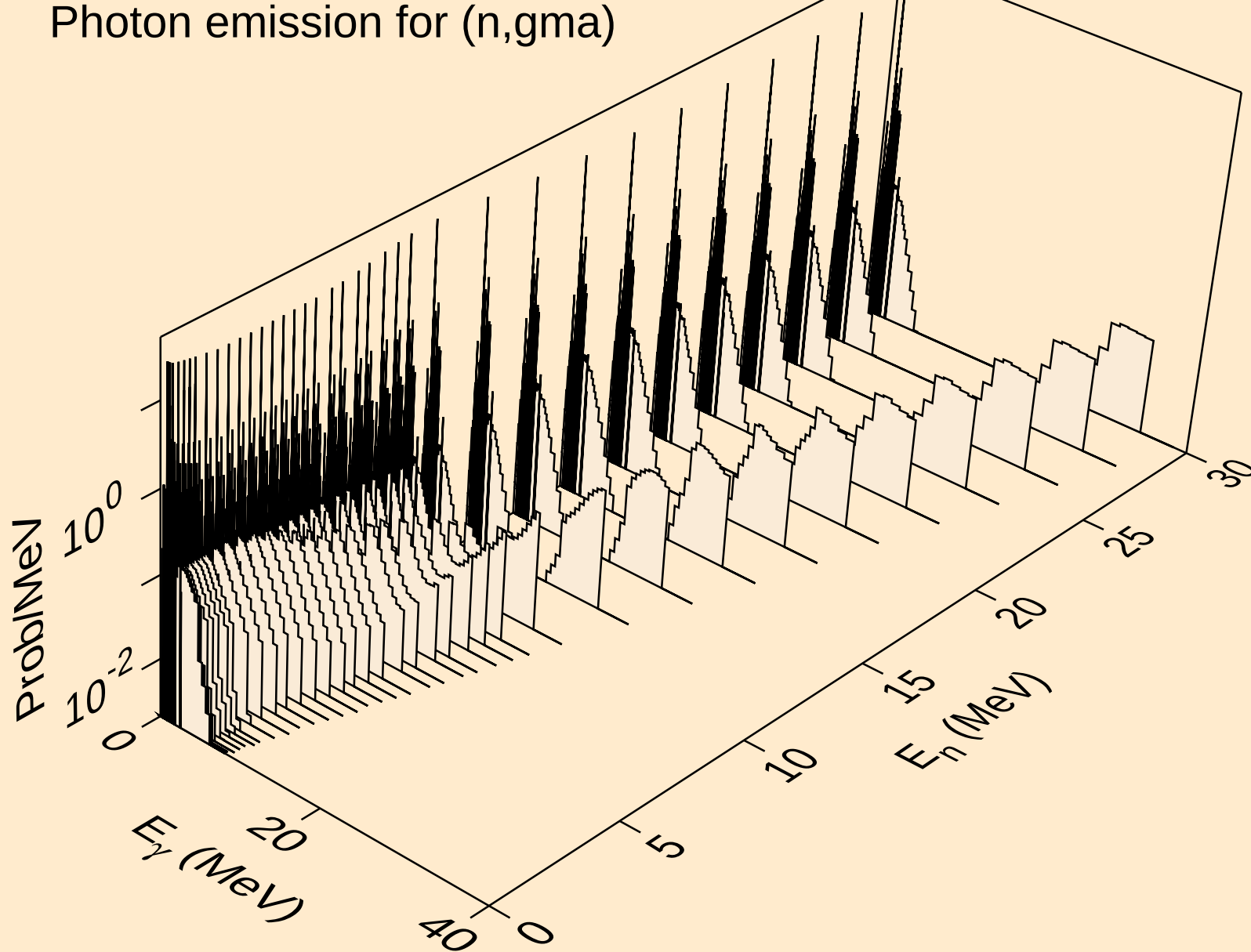
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



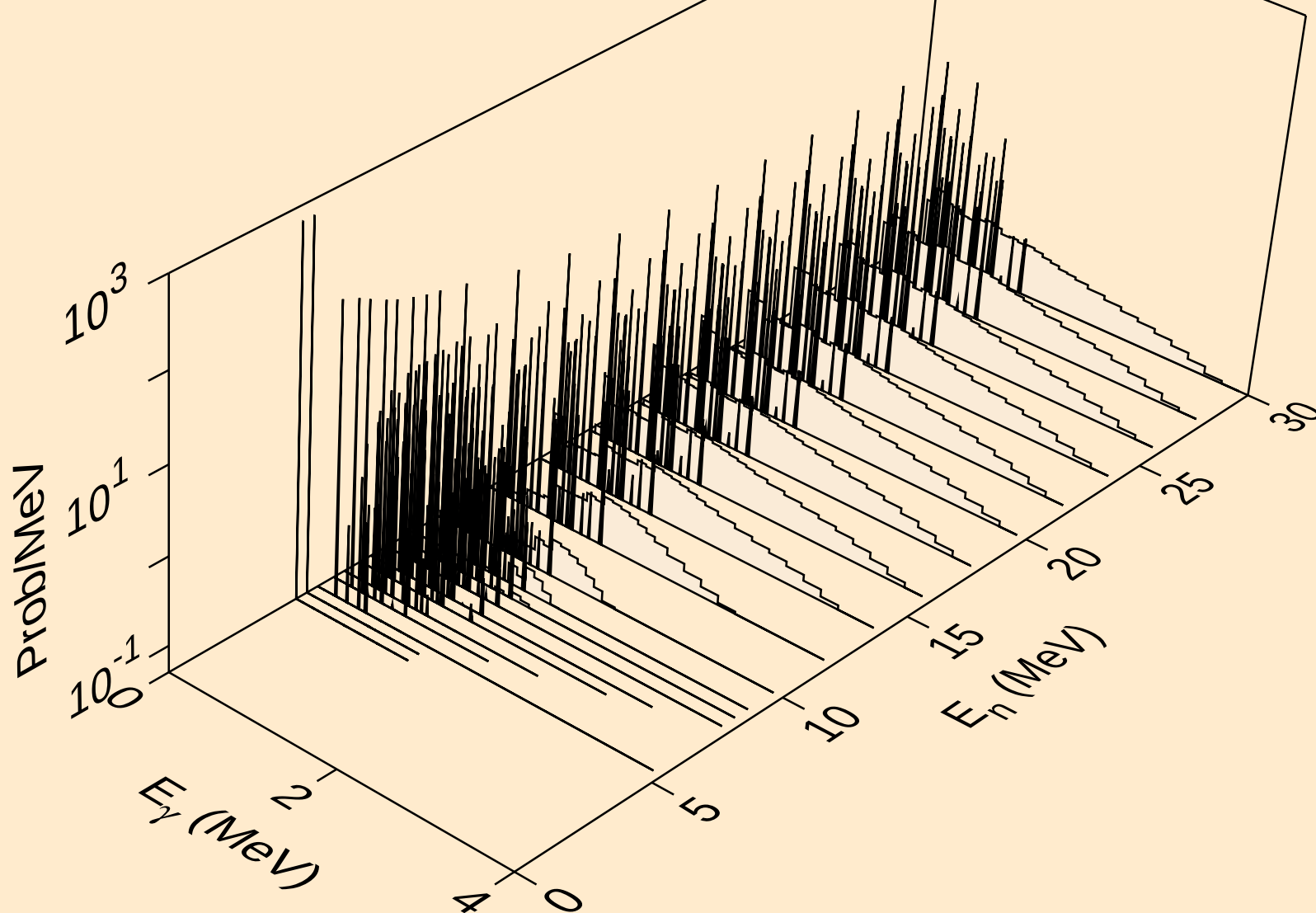
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



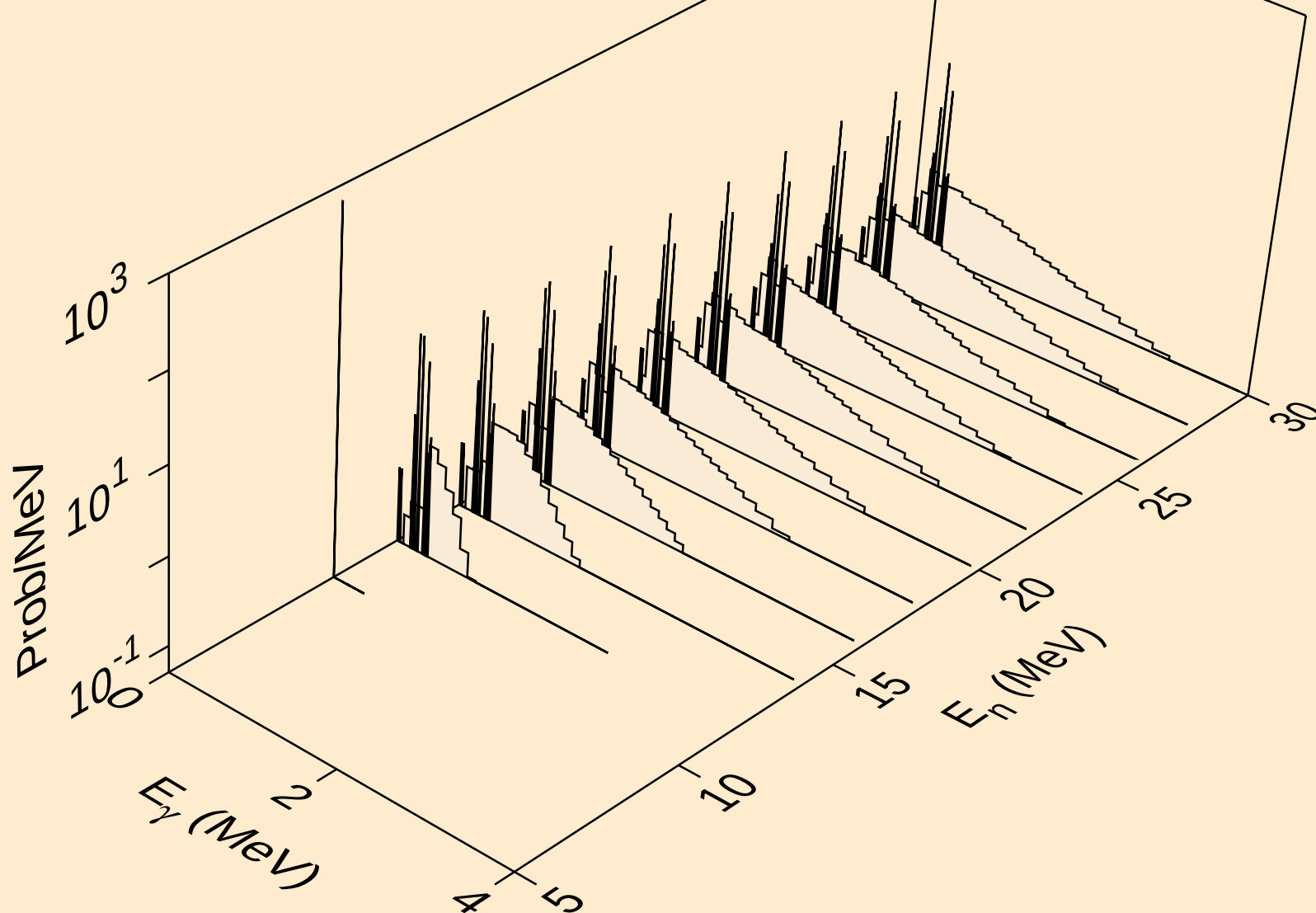
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



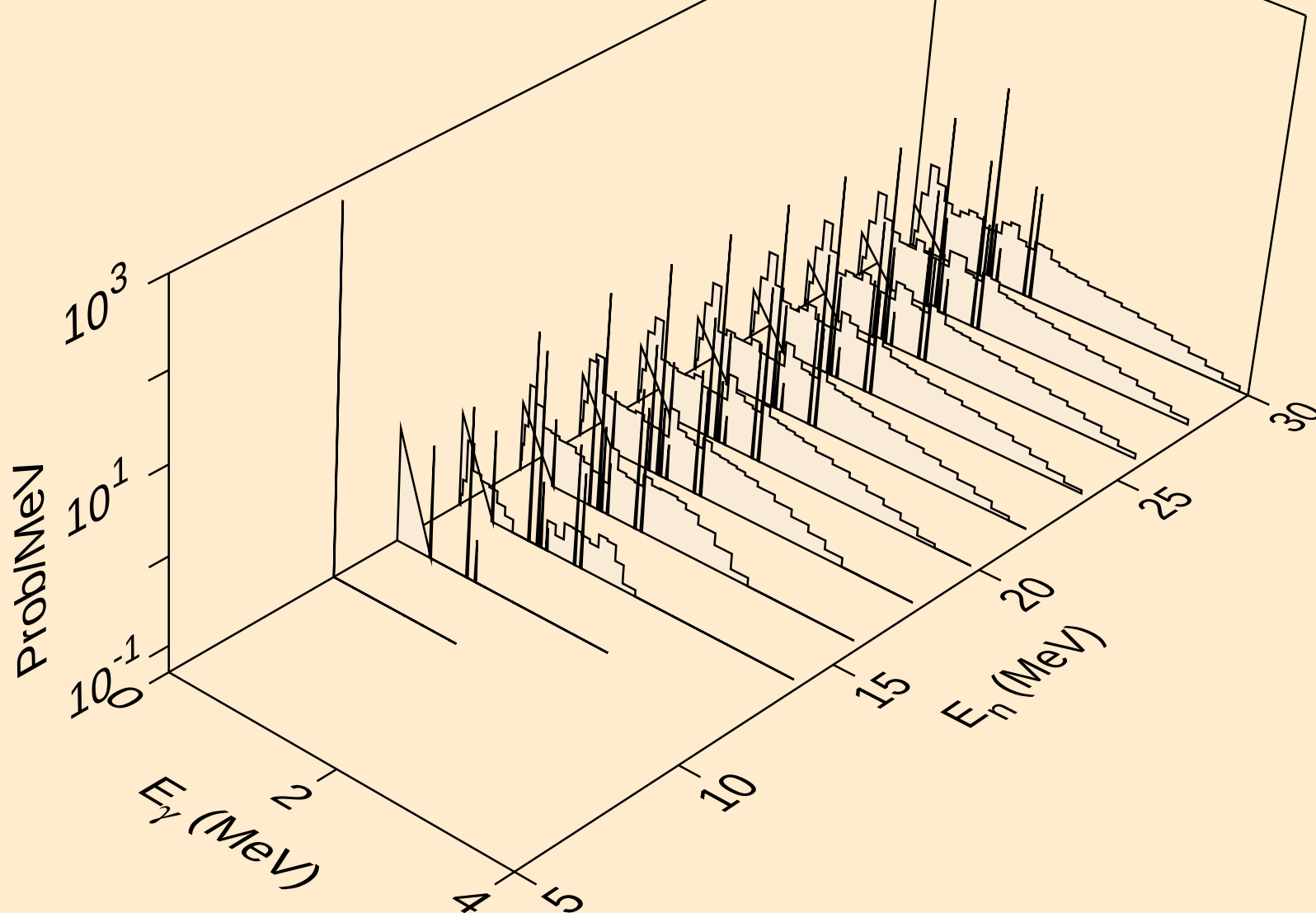
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



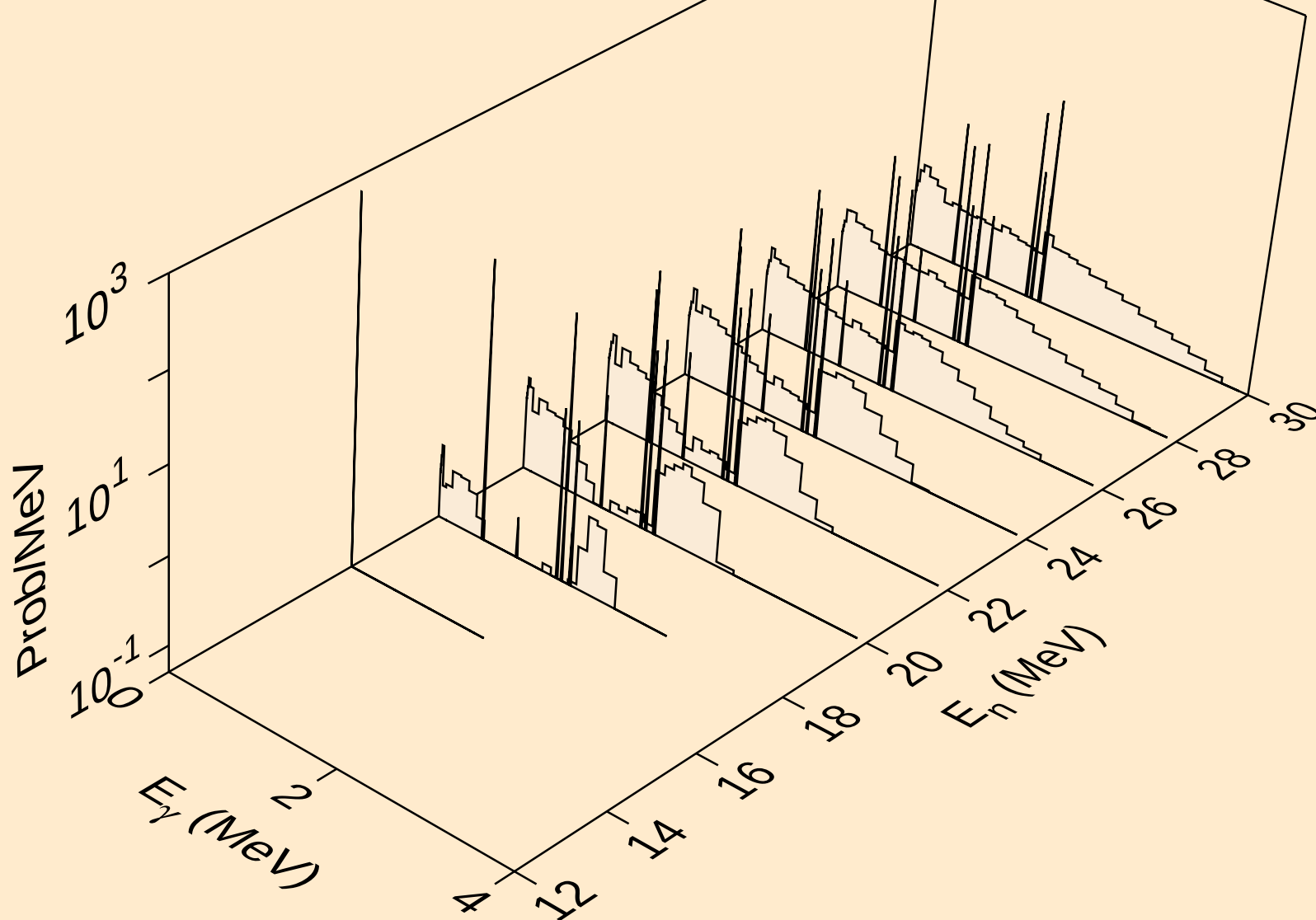
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Photon emission for (n,d)



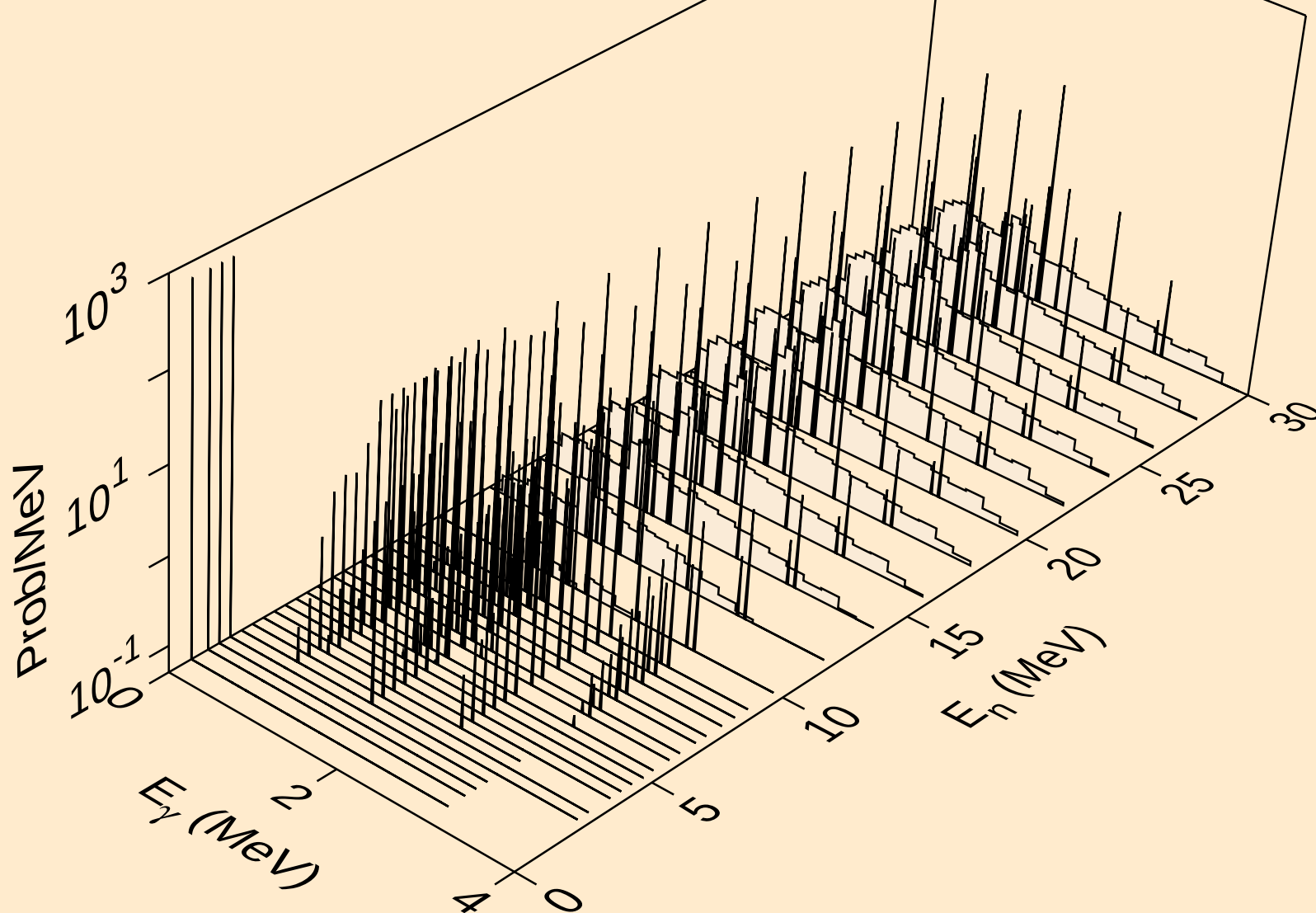
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

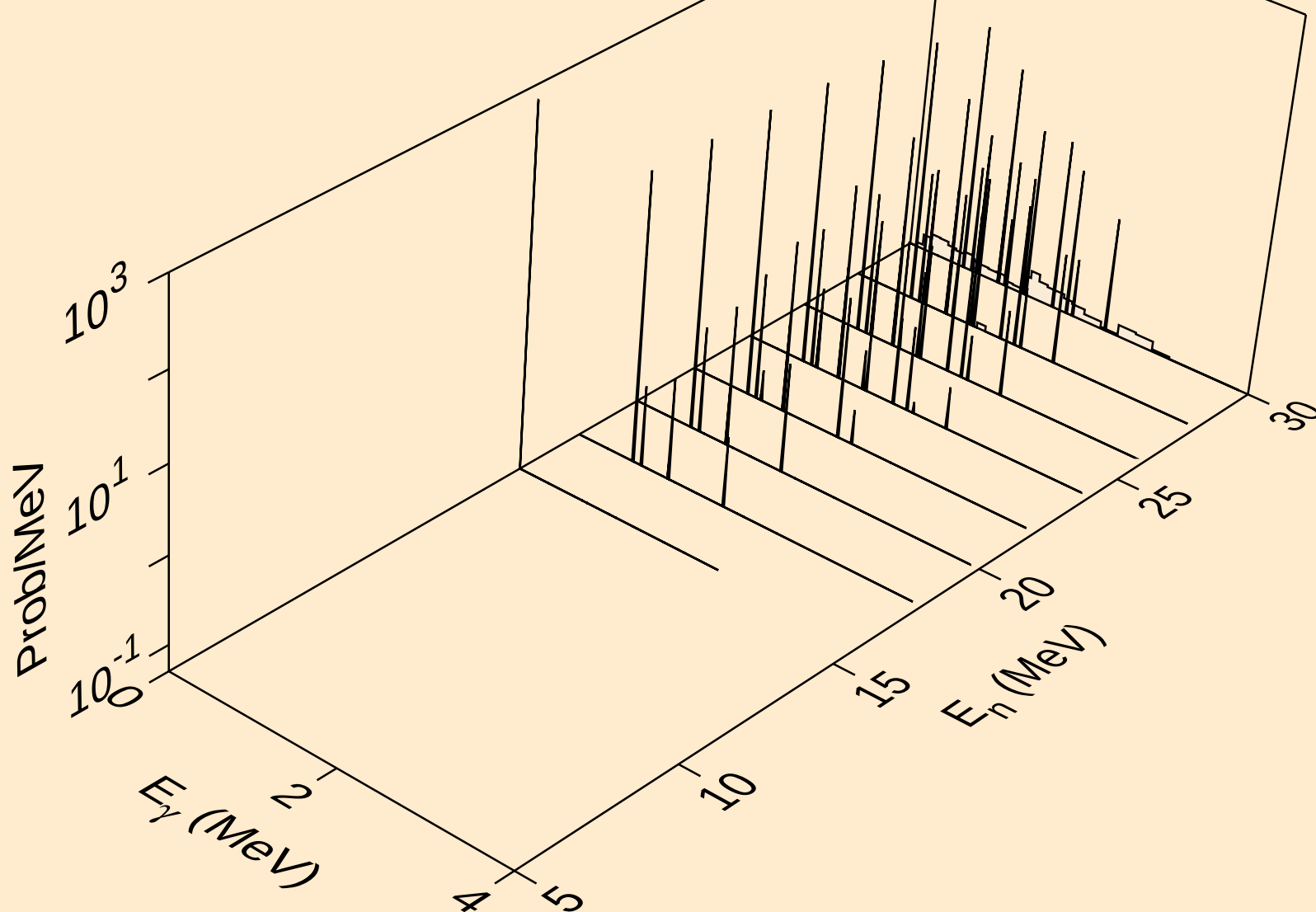


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)

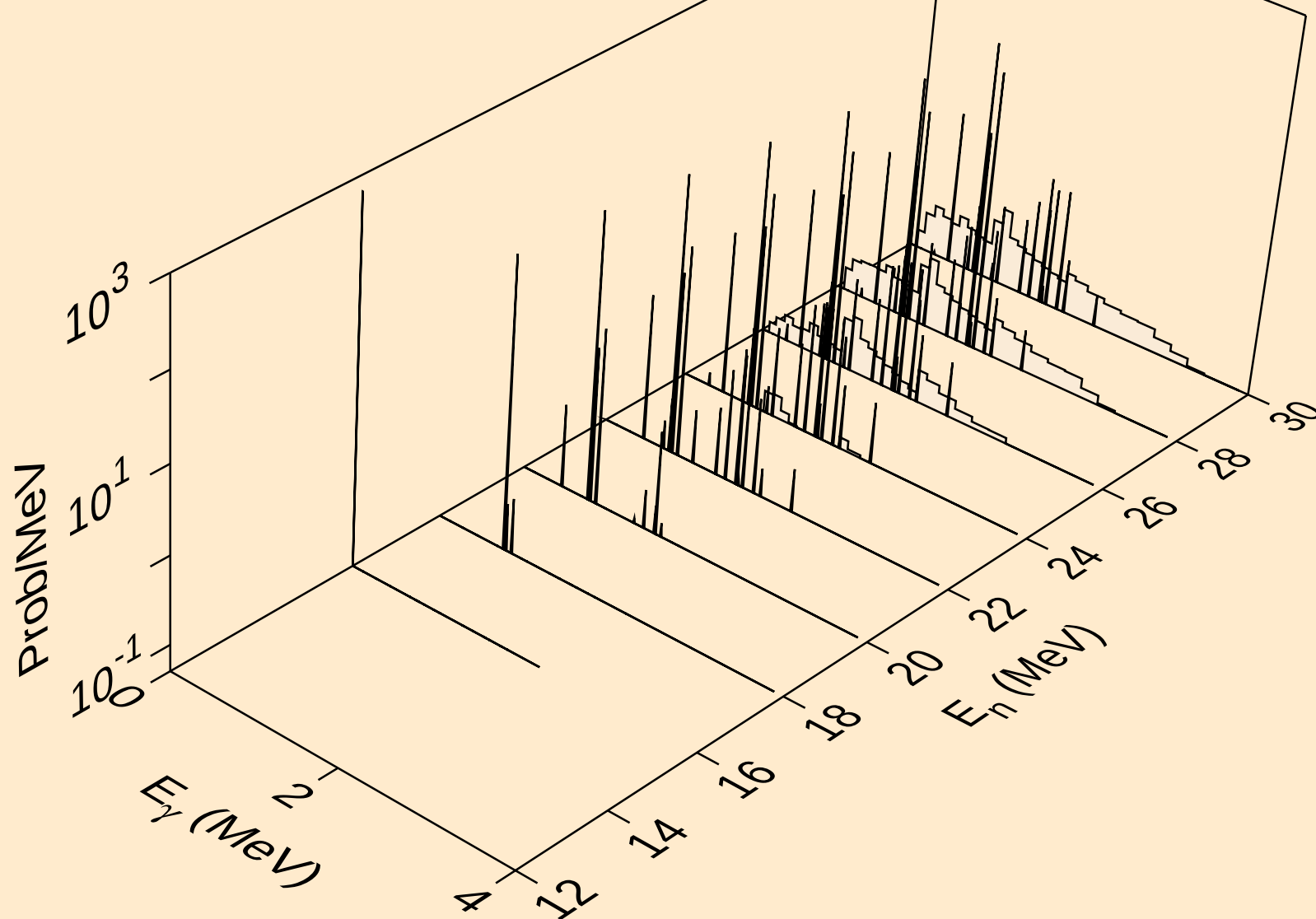




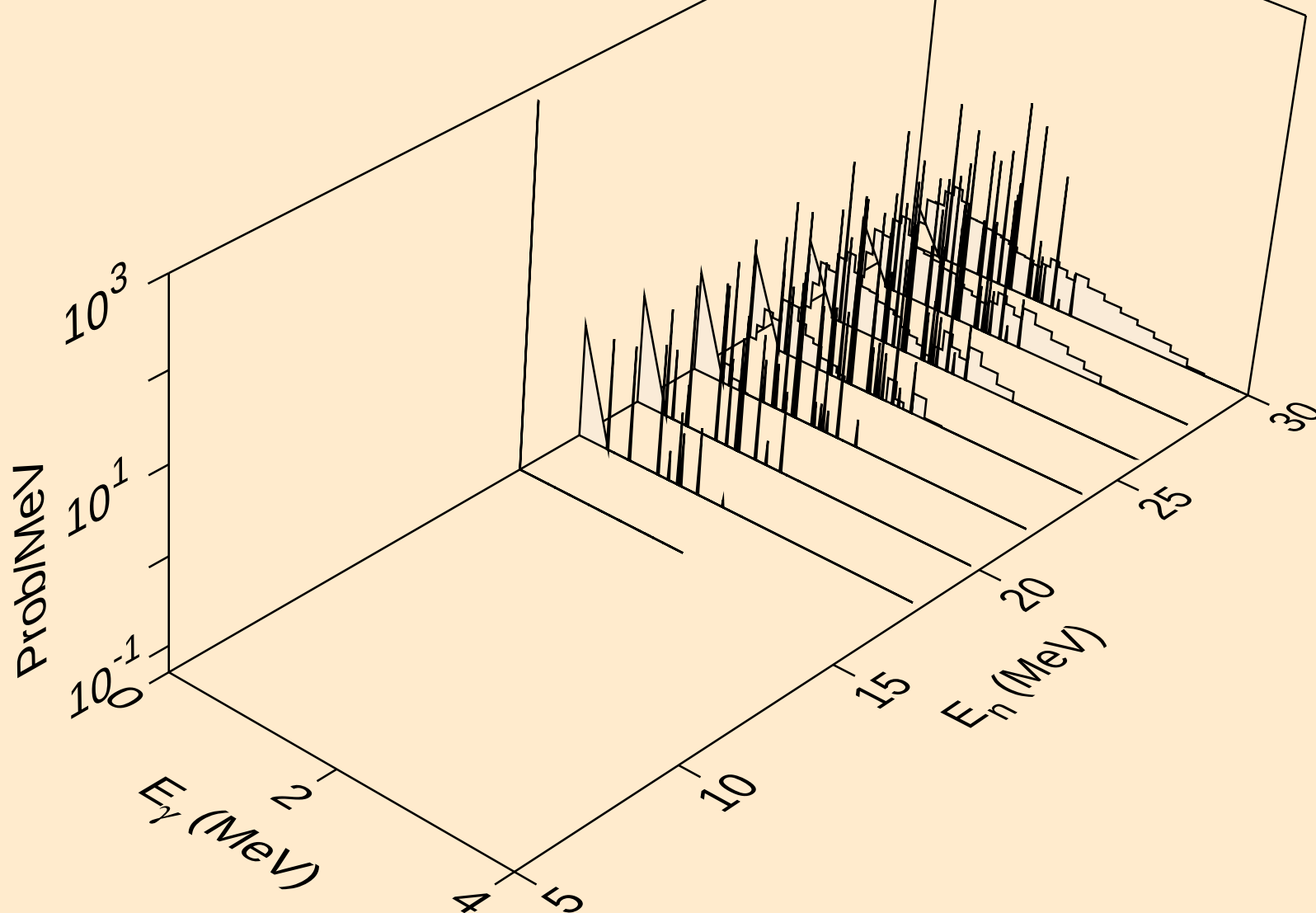
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



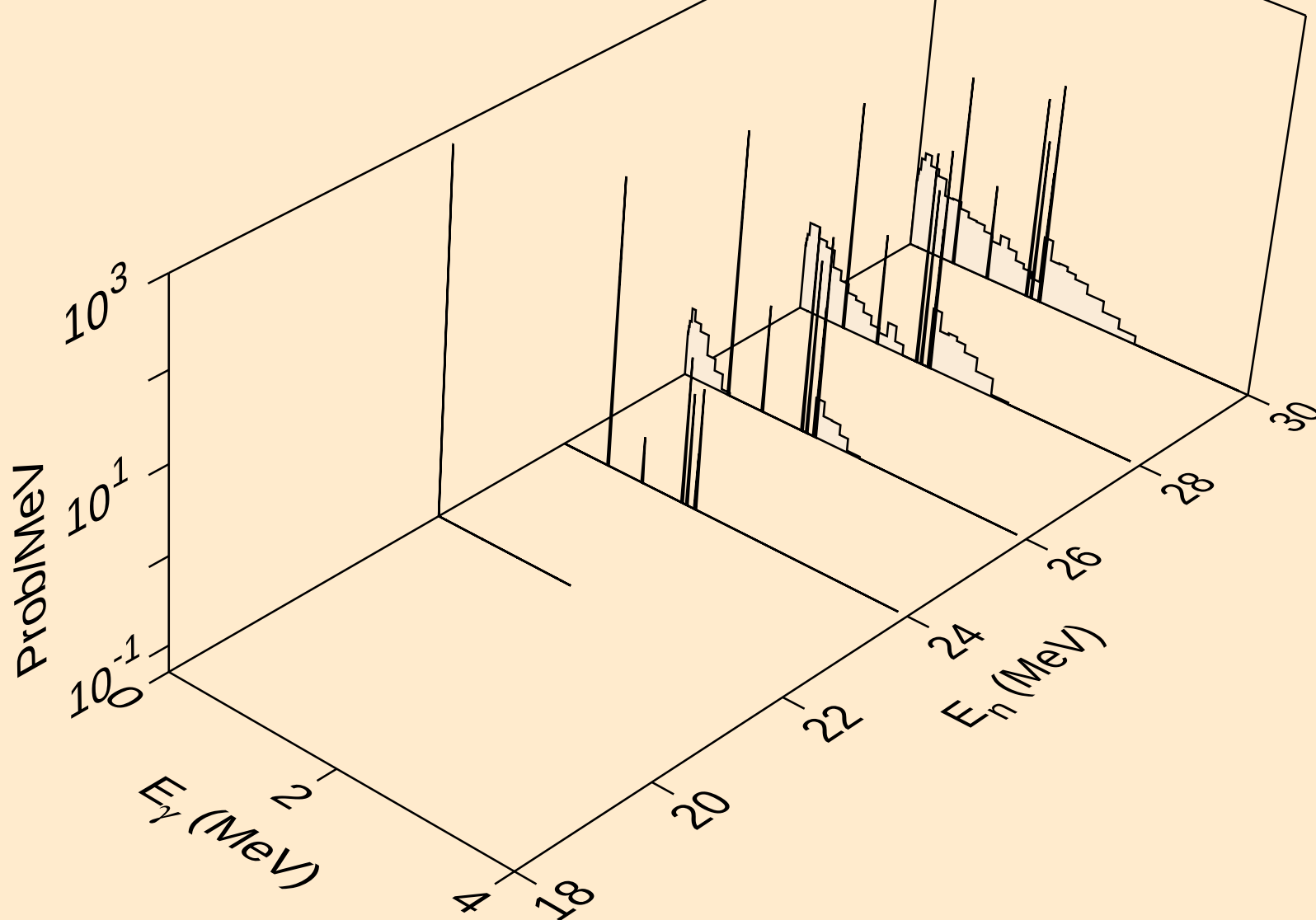
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



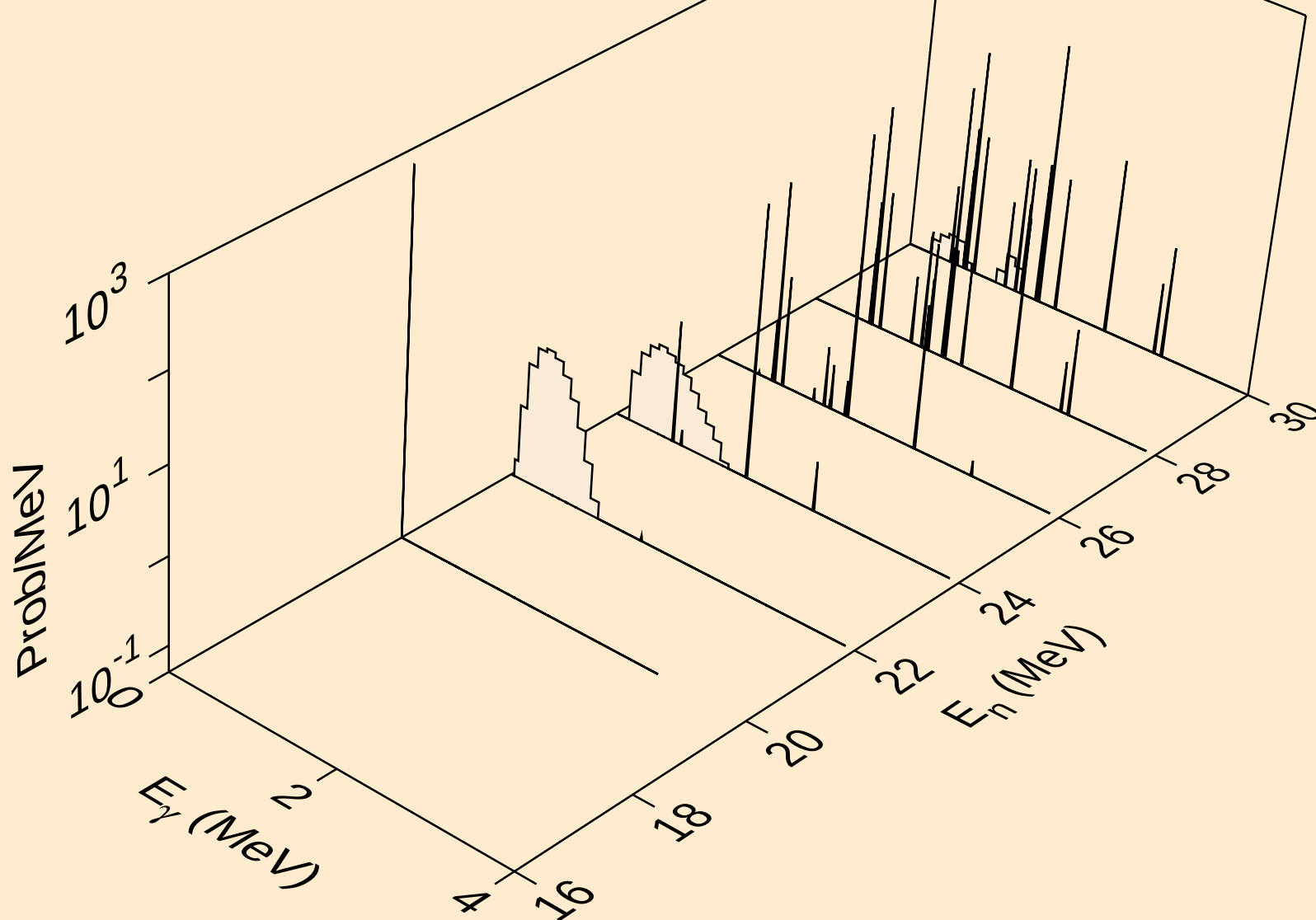
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



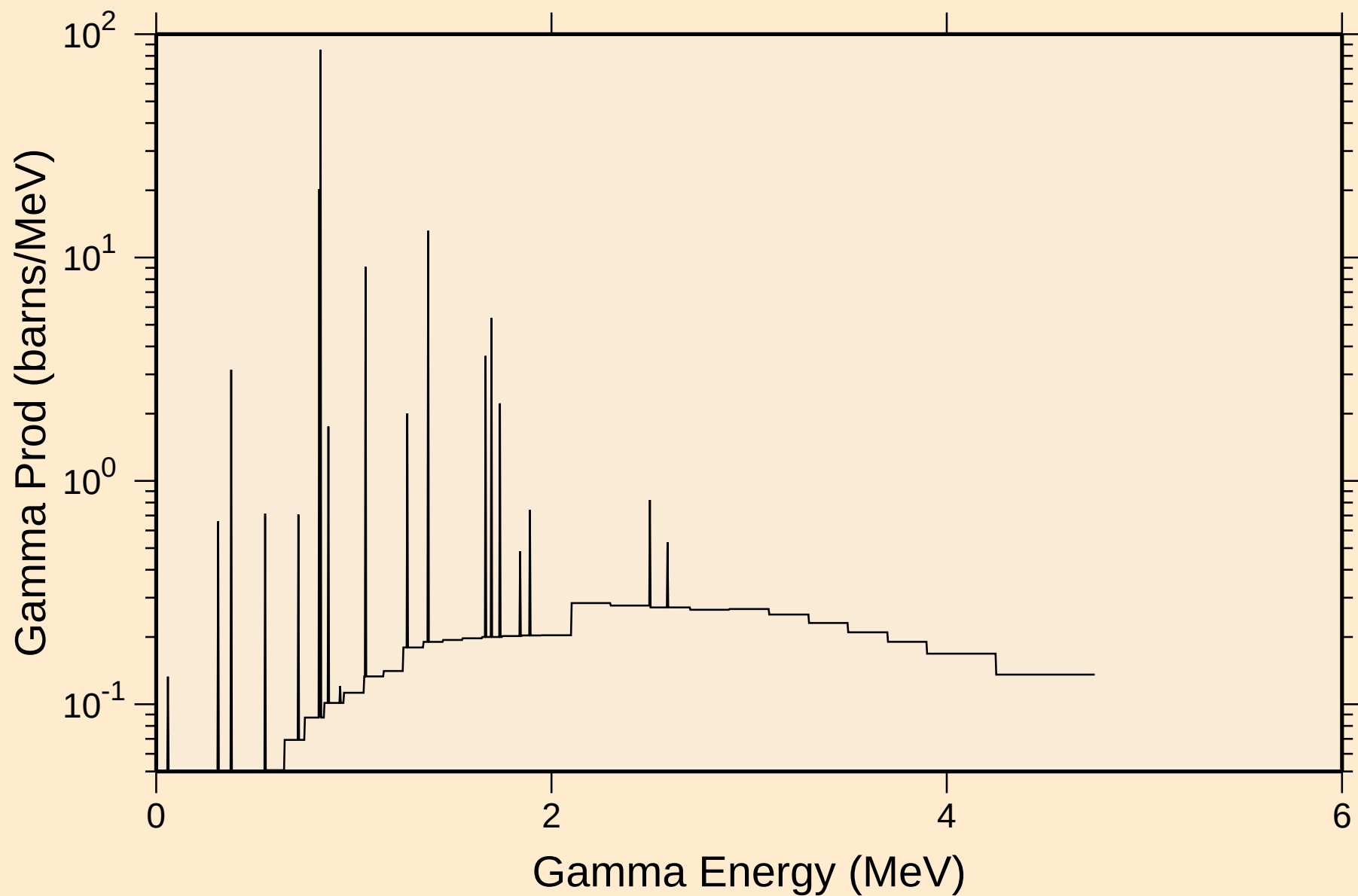
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



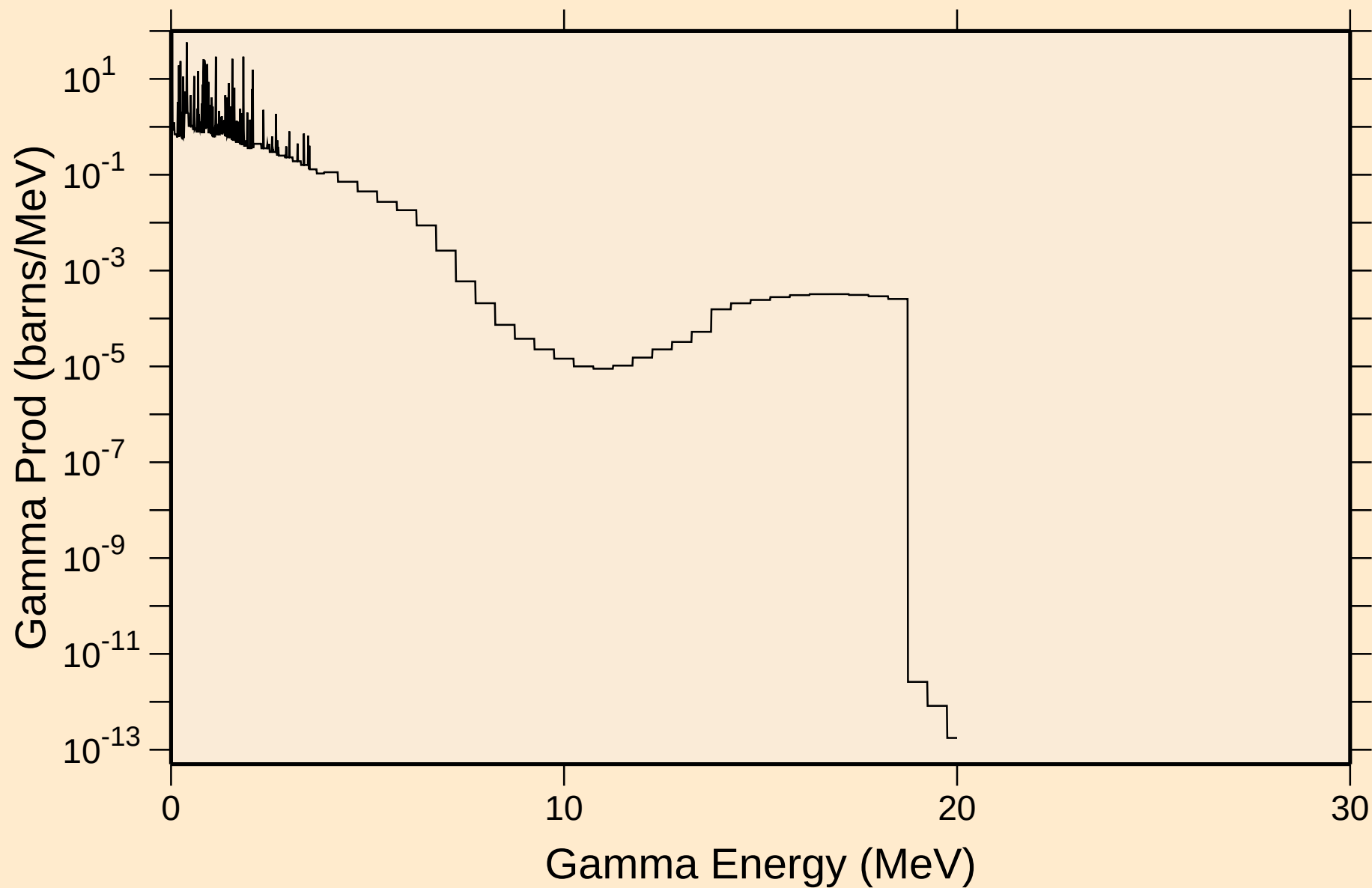
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

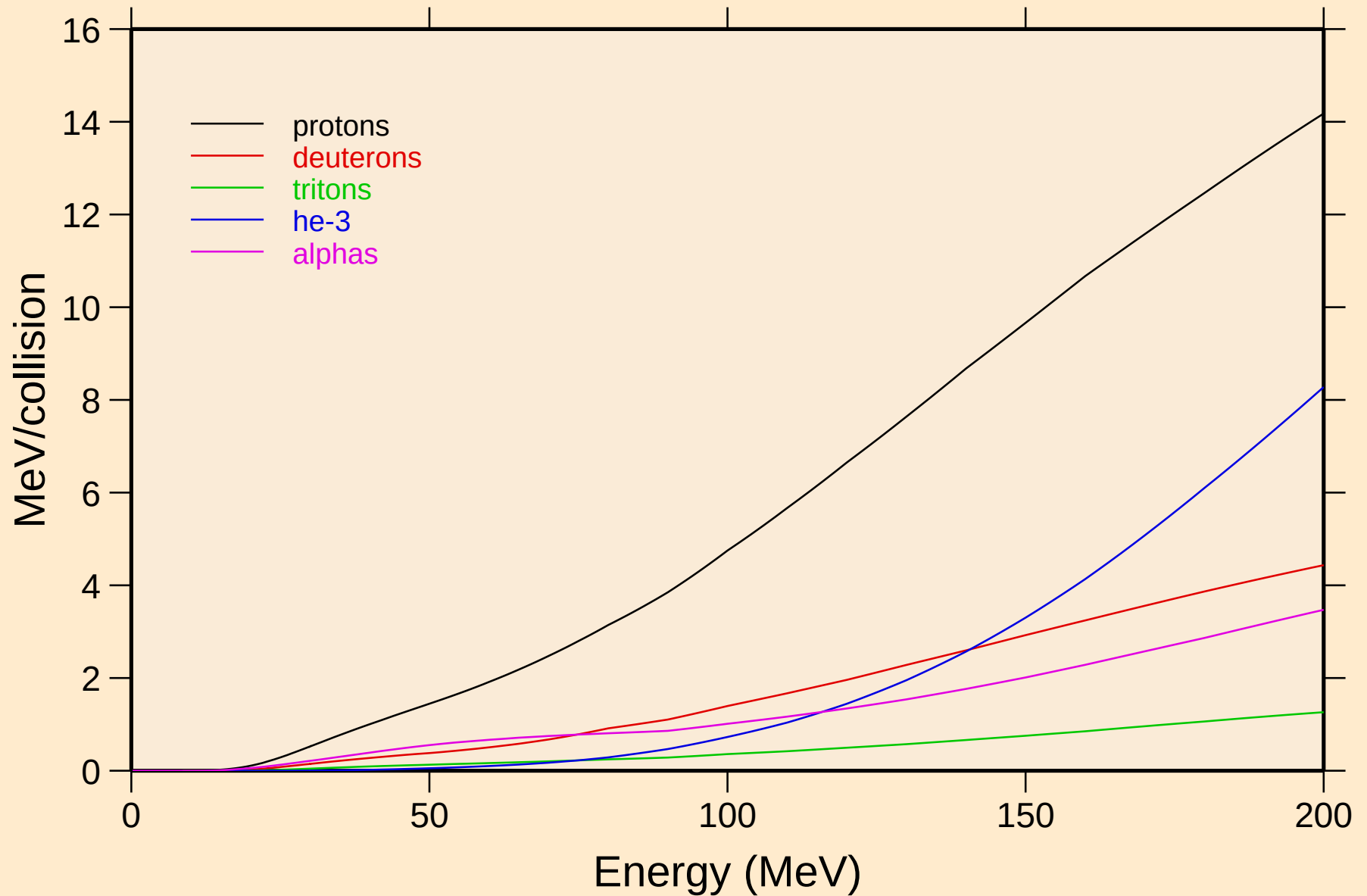


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



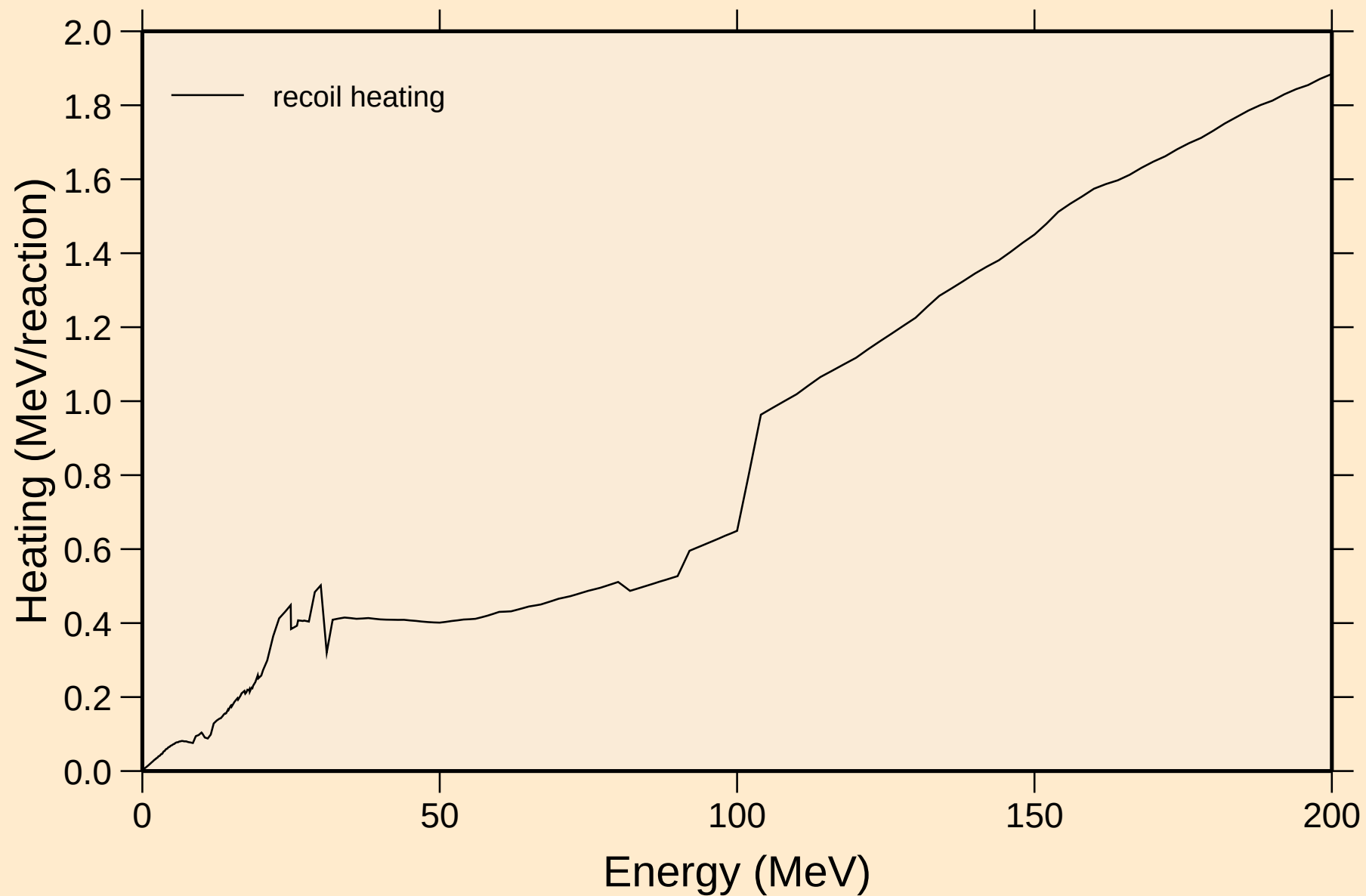
# SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions



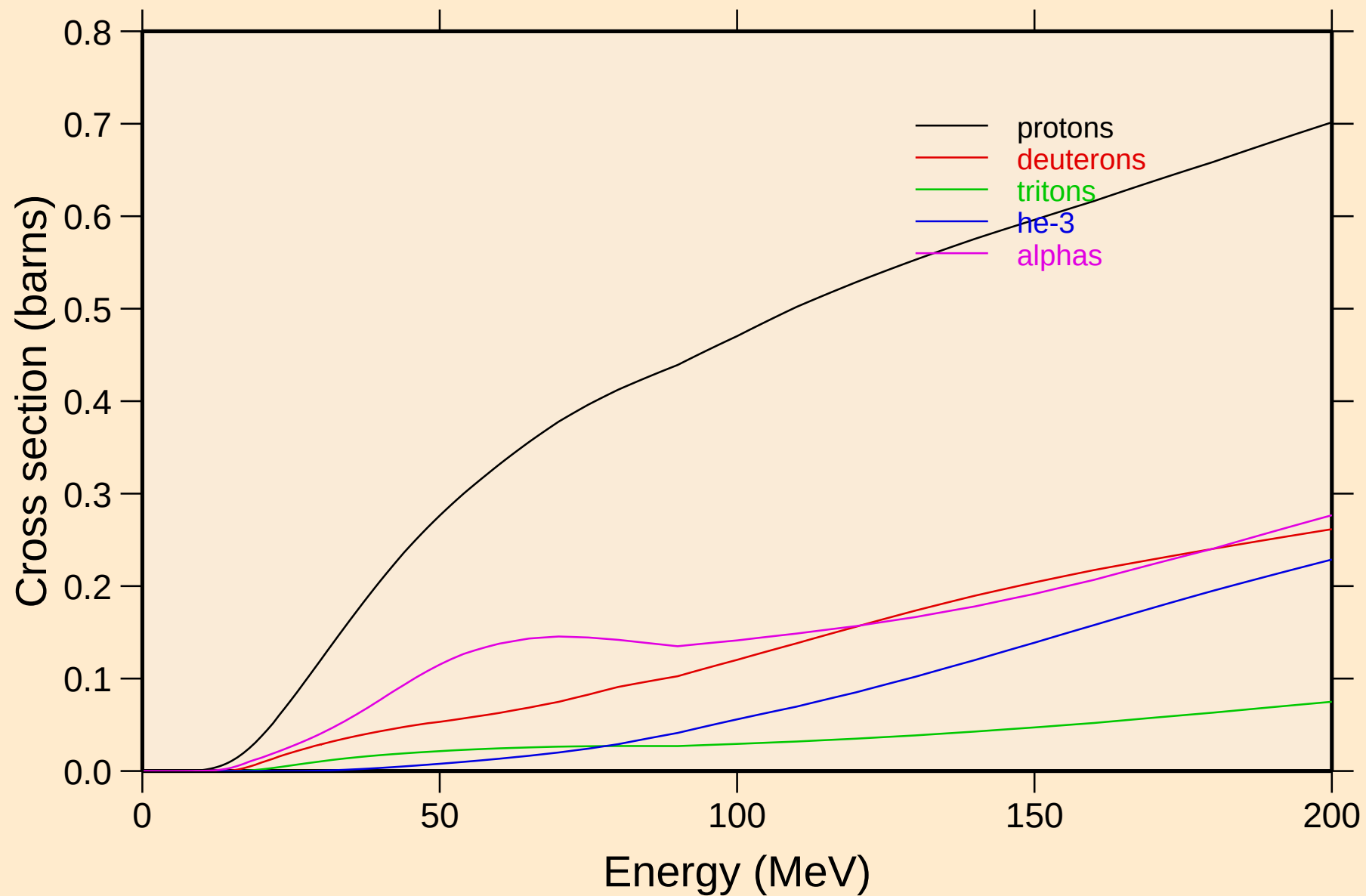


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

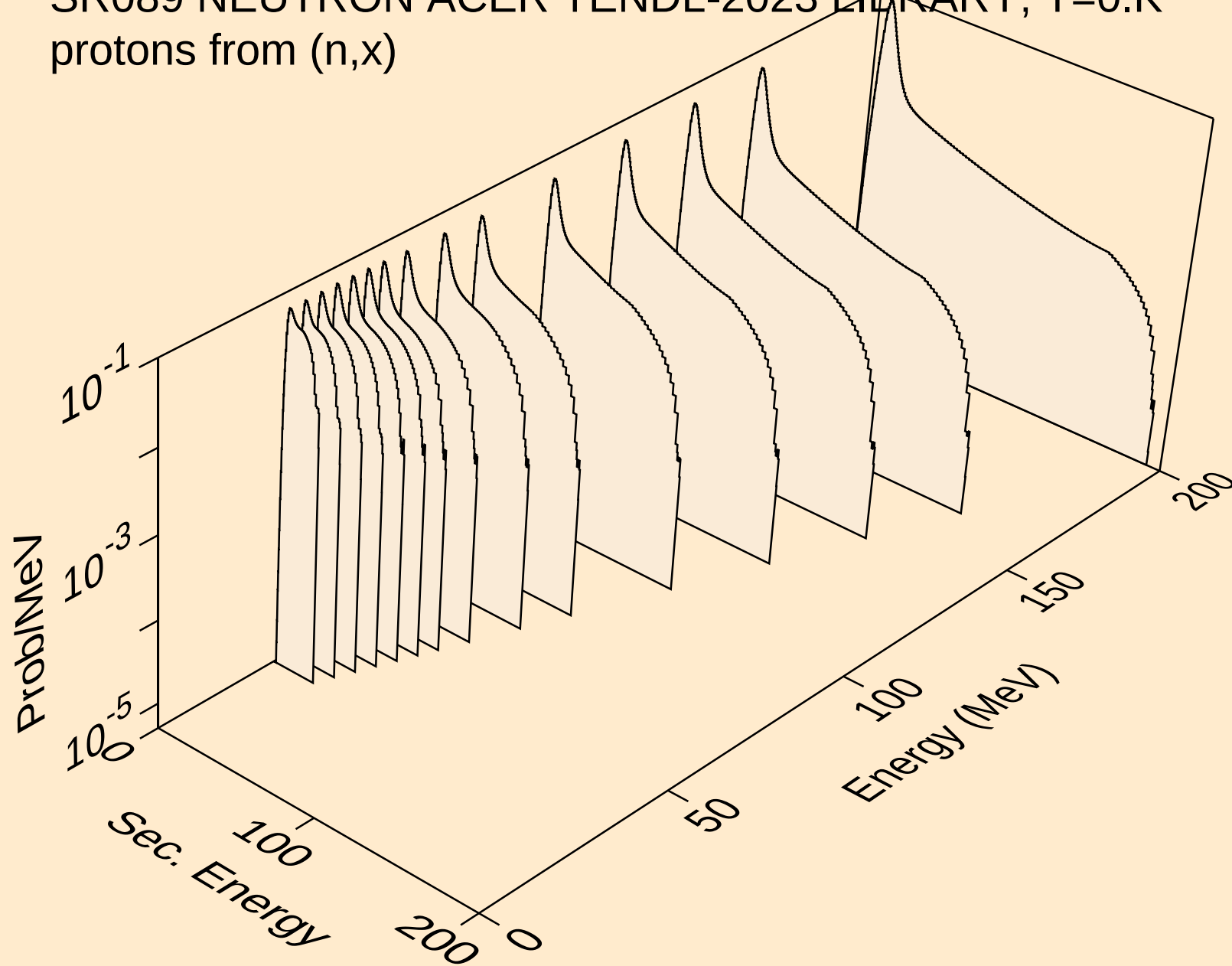


# SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

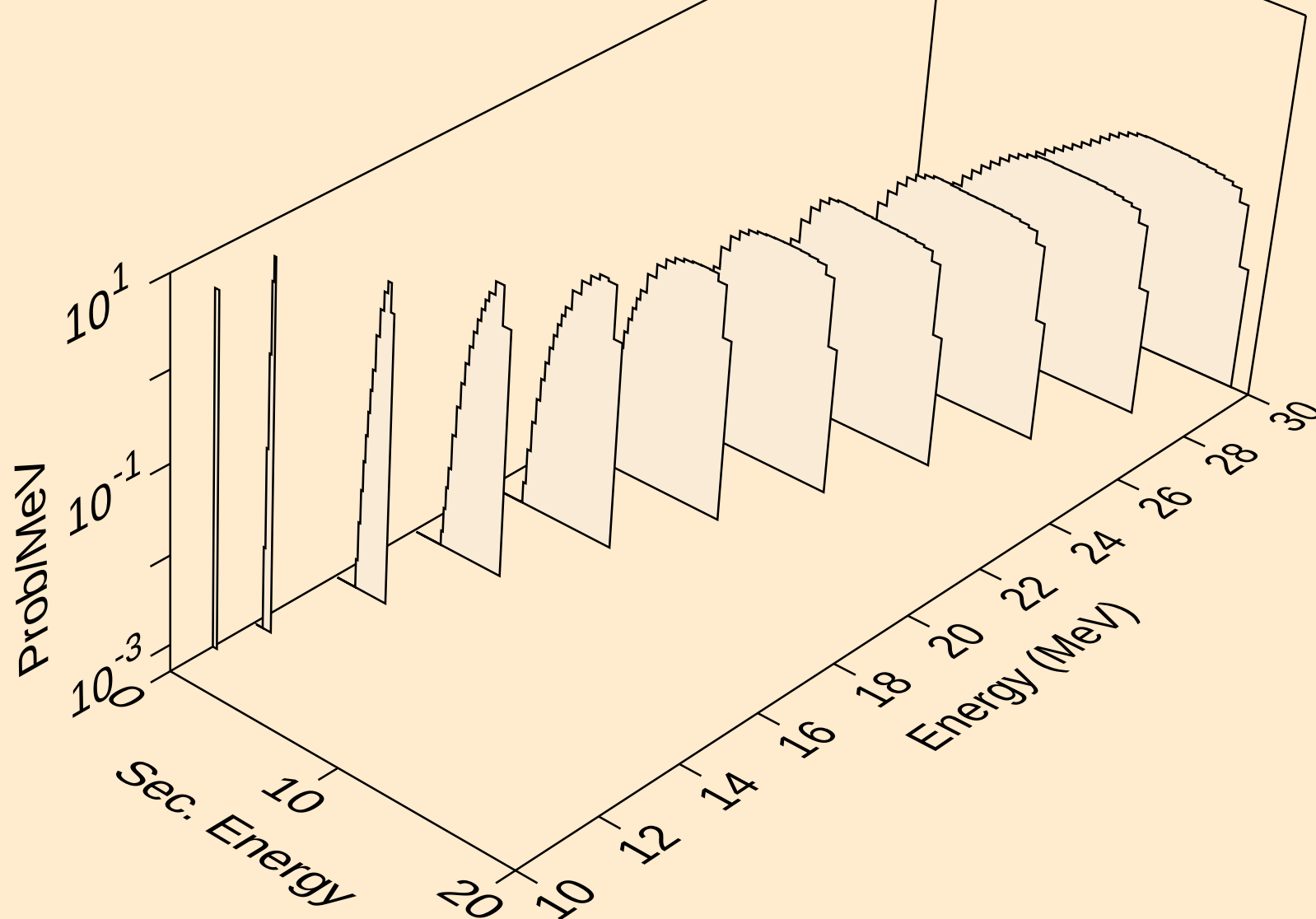
## Particle production cross sections



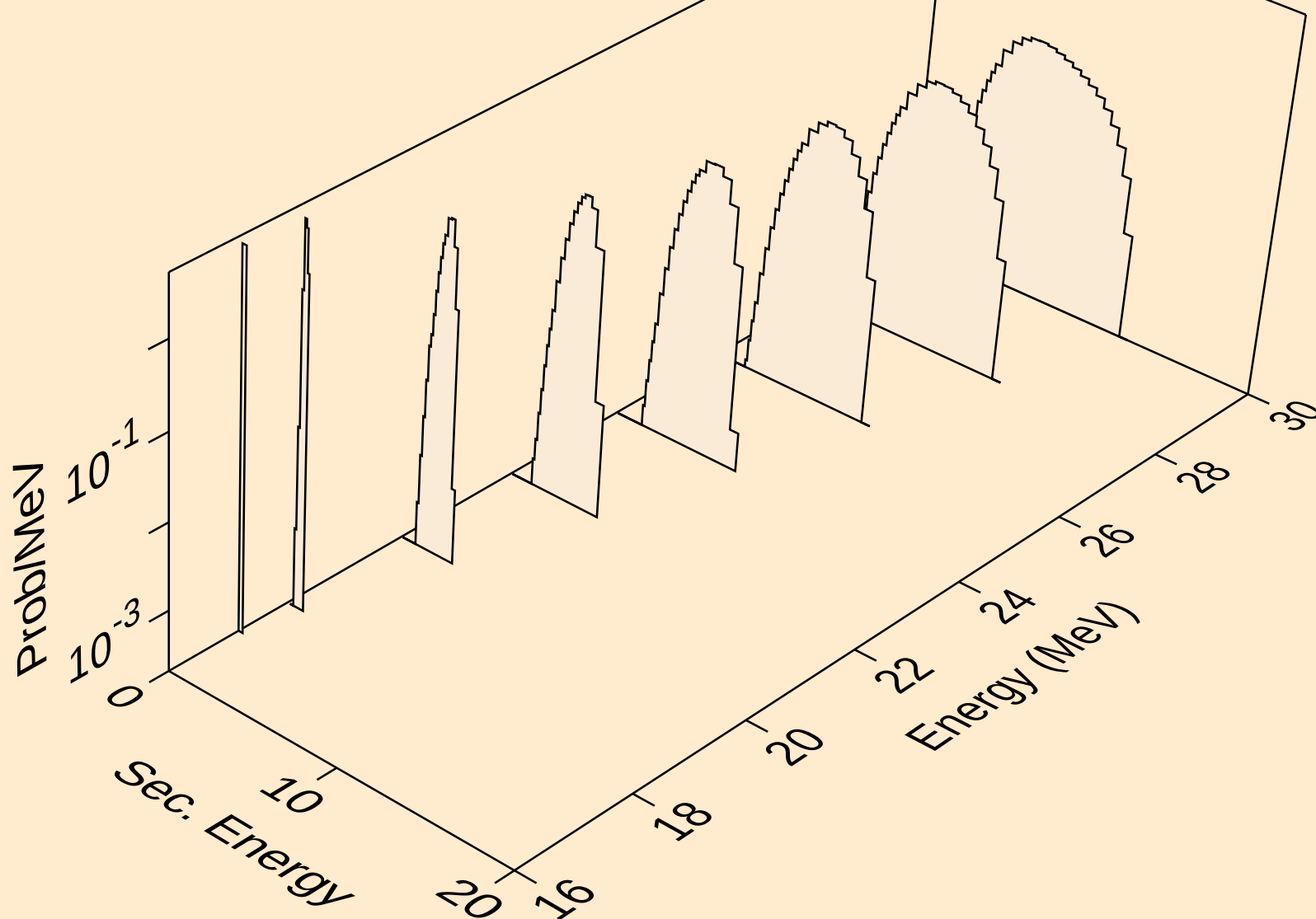
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



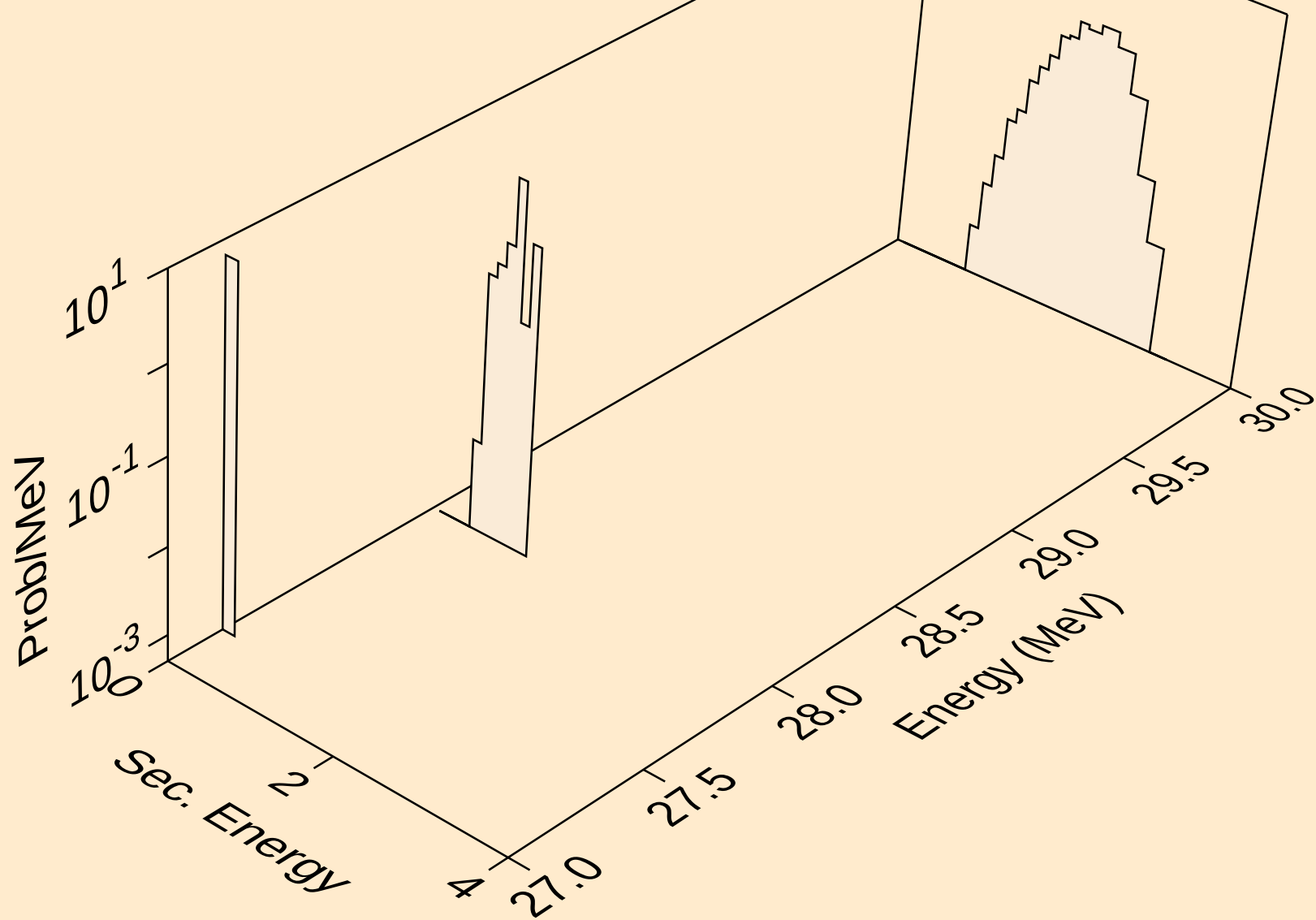
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



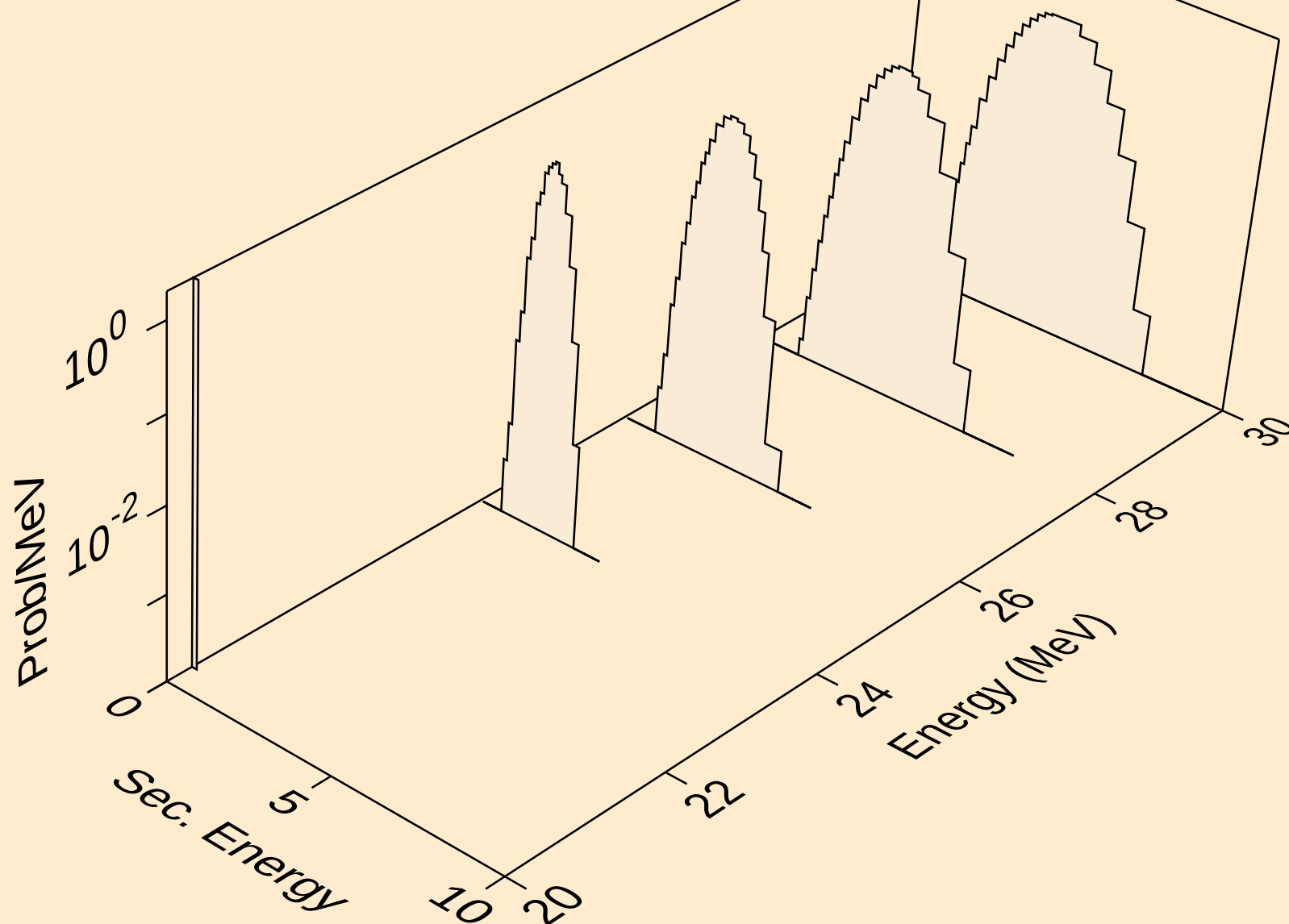
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



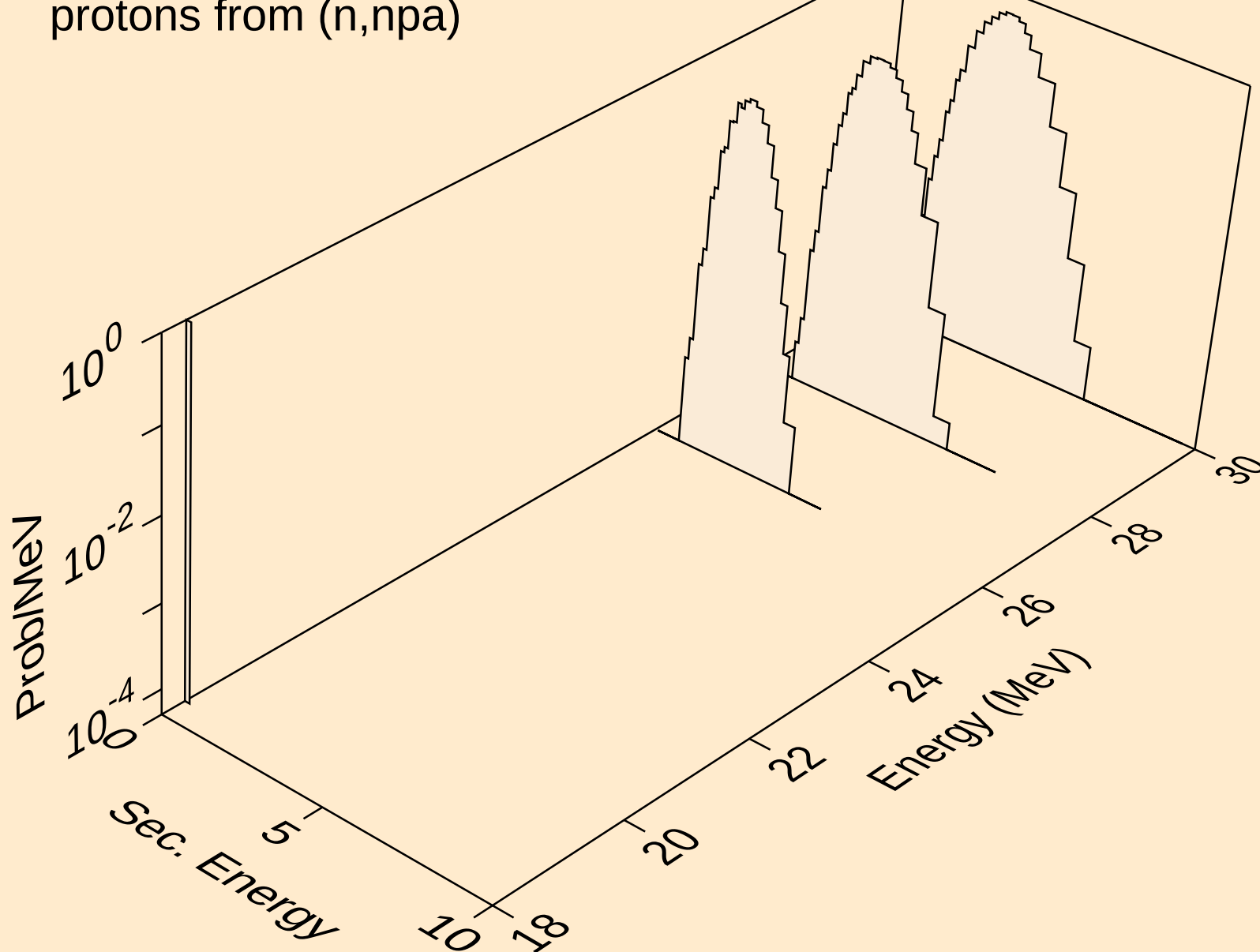
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,3np)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n2p)

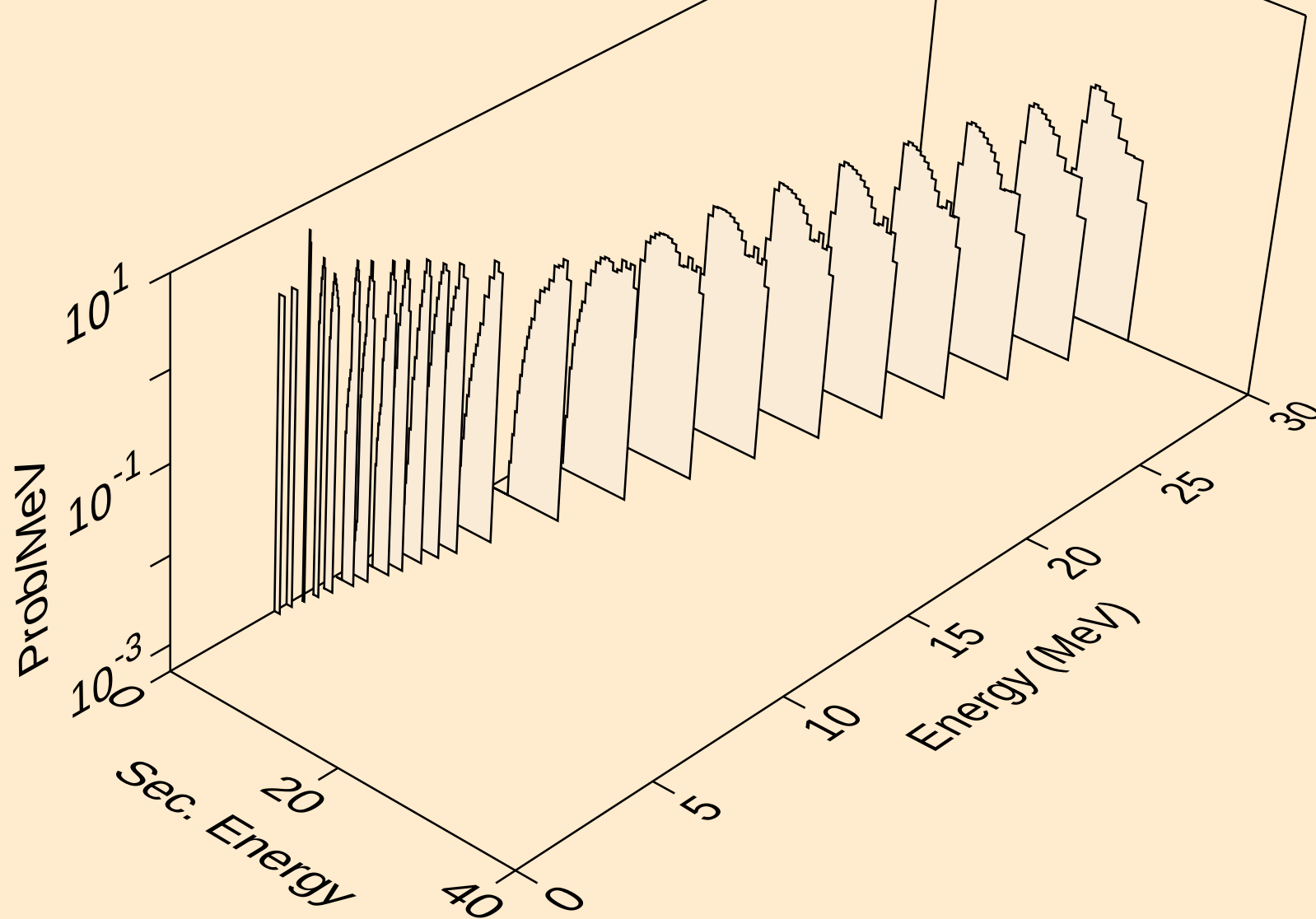


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,npa)

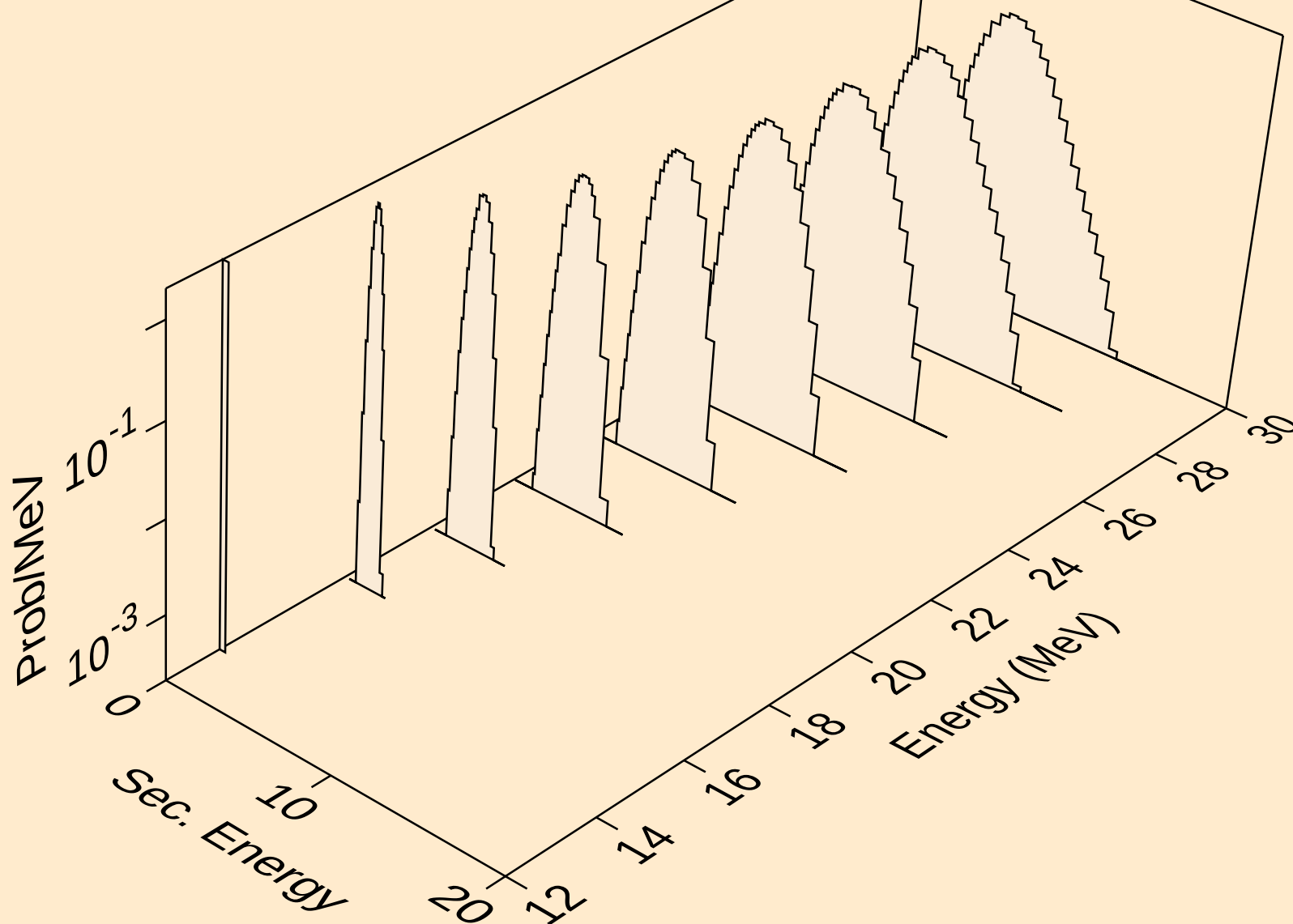




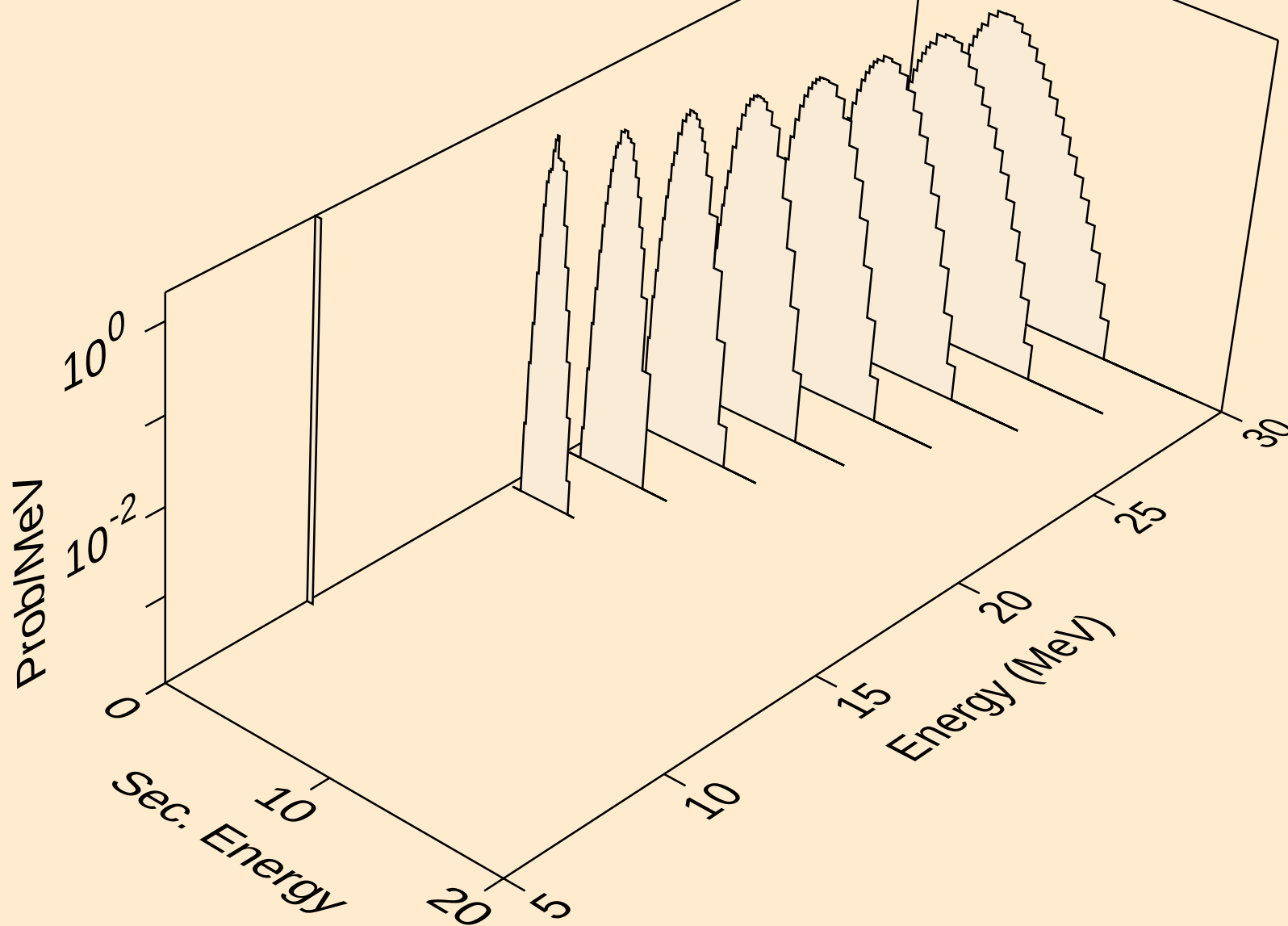
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protons from (n,p)



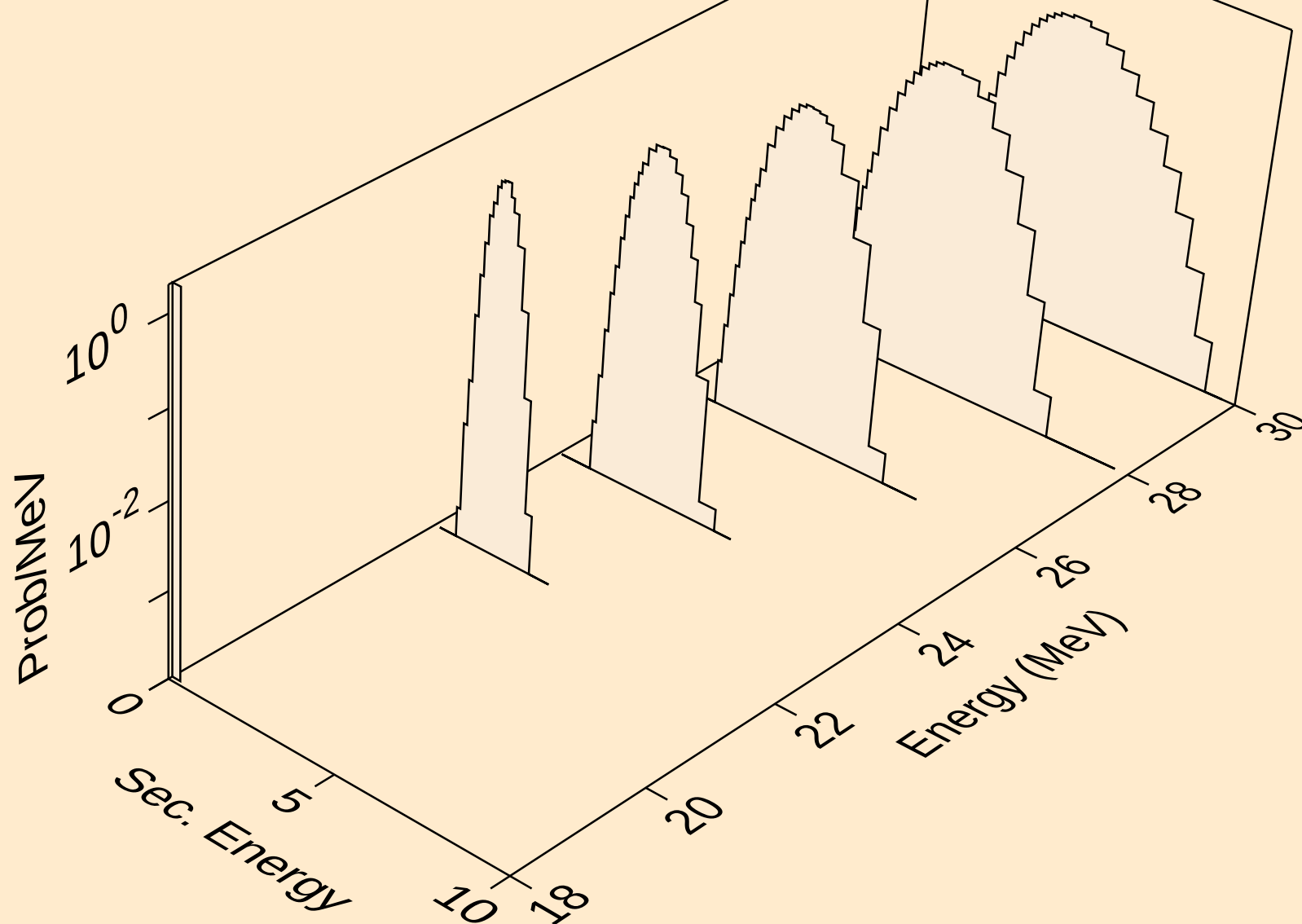
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protons from (n,2p)



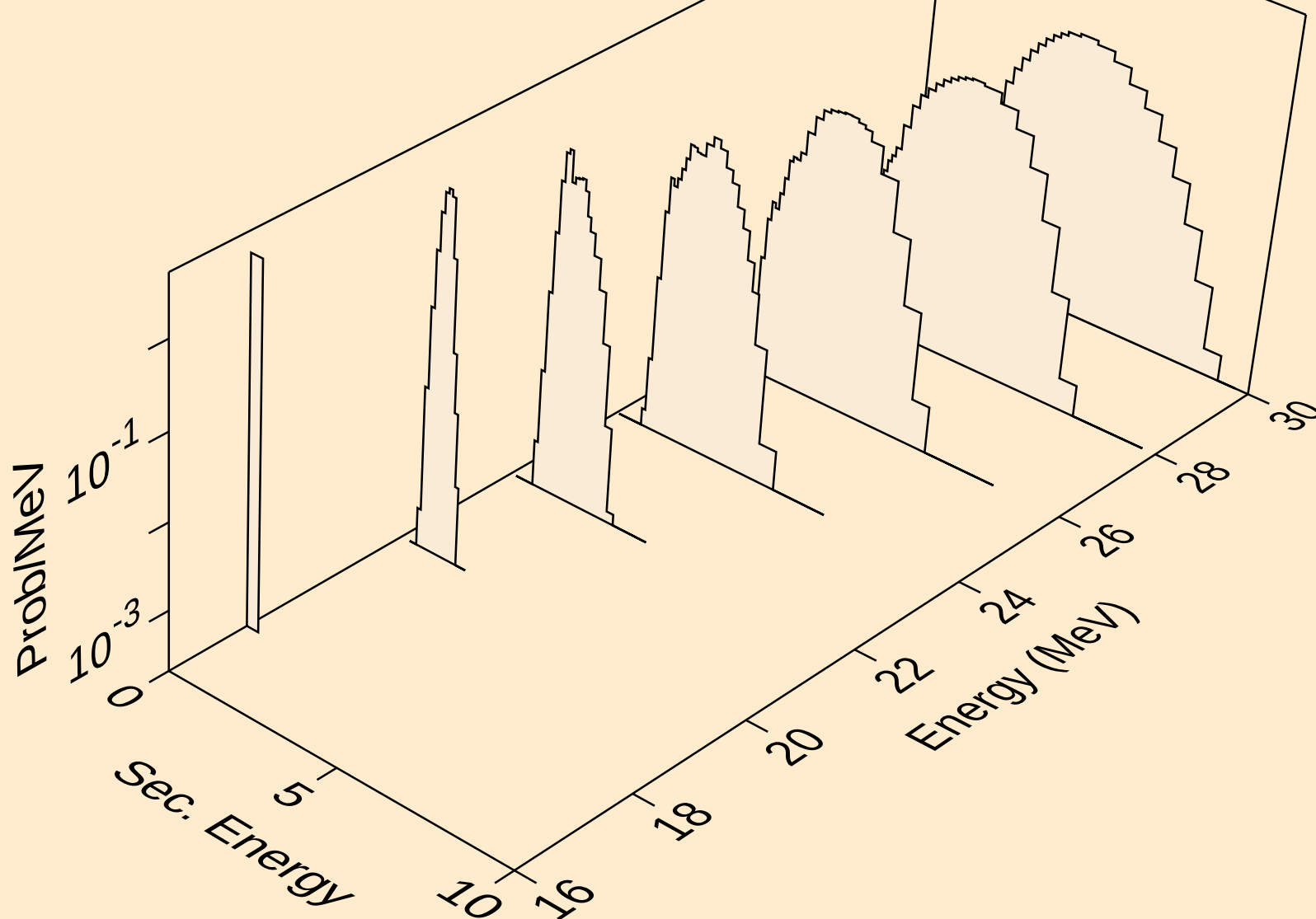
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protons from (n,p)



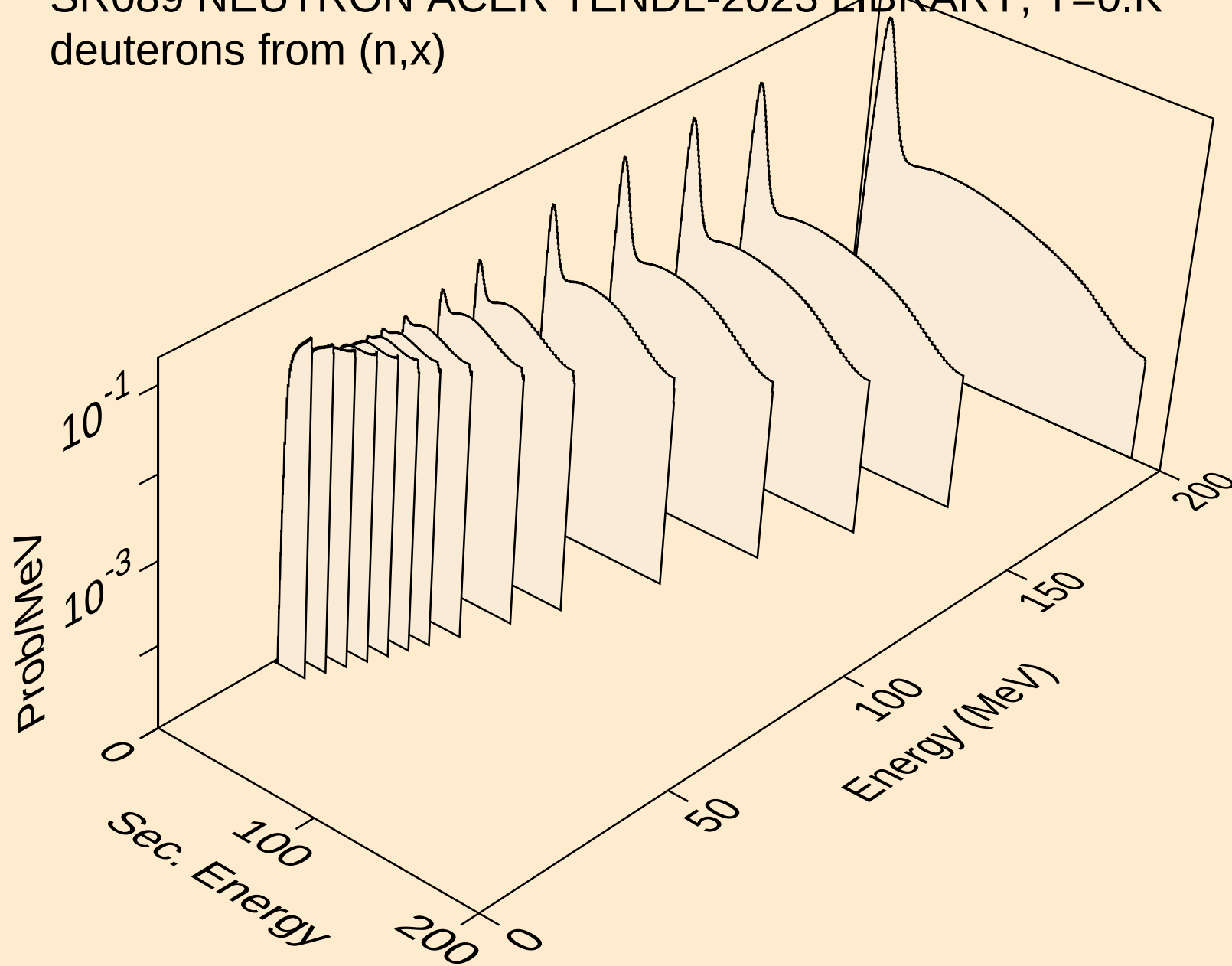
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pd)



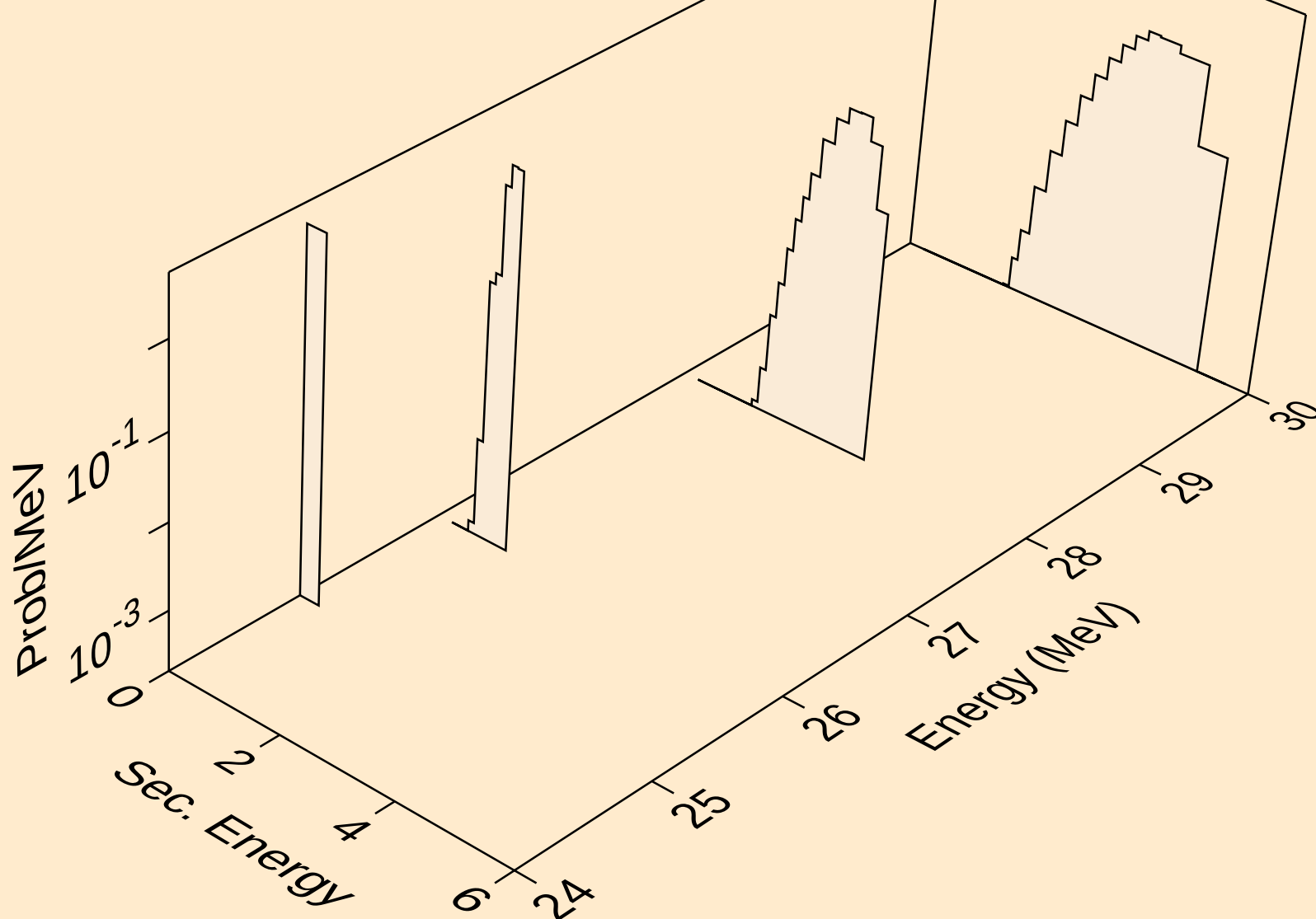
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protons from (n,pt)



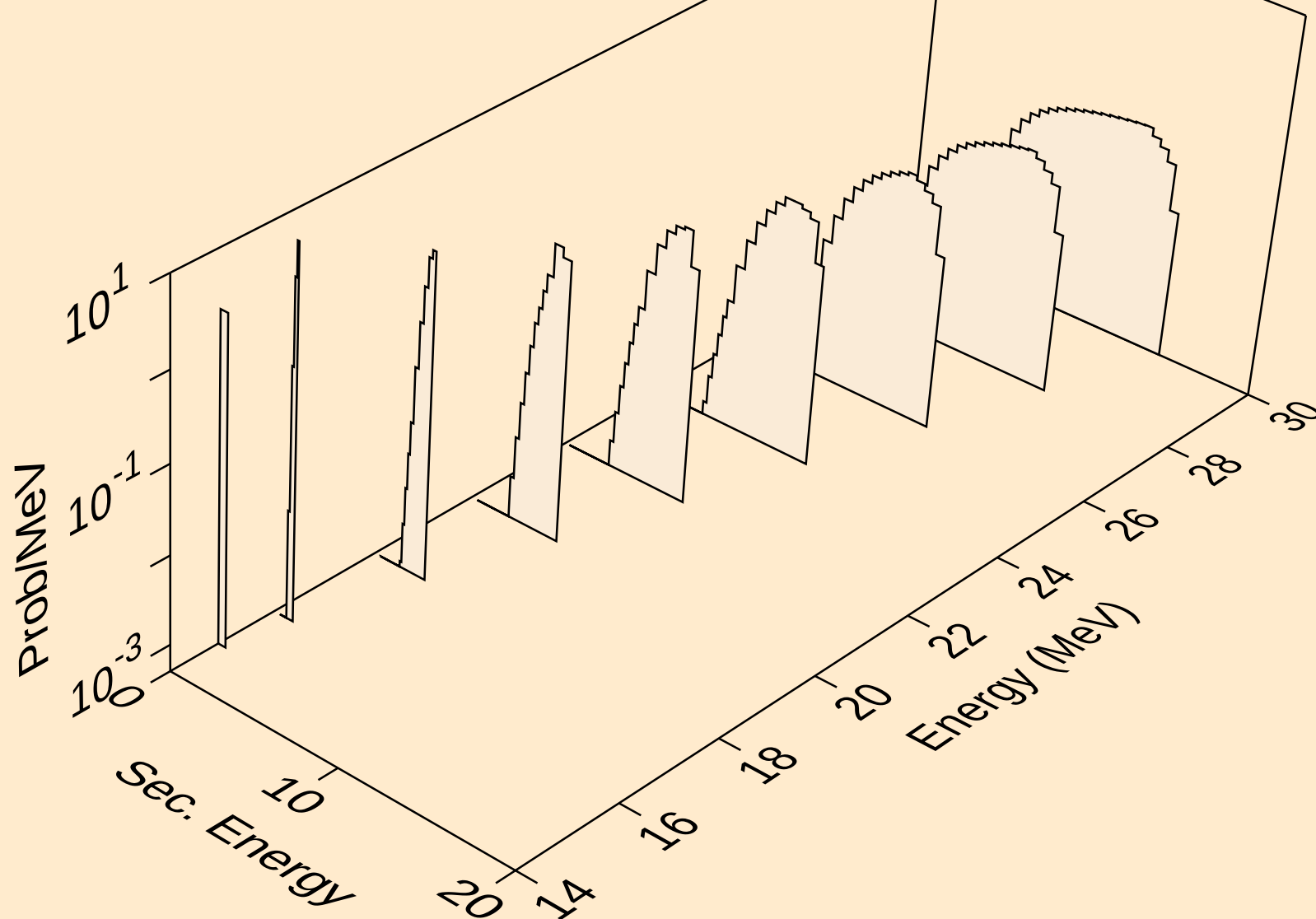
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,2nd)

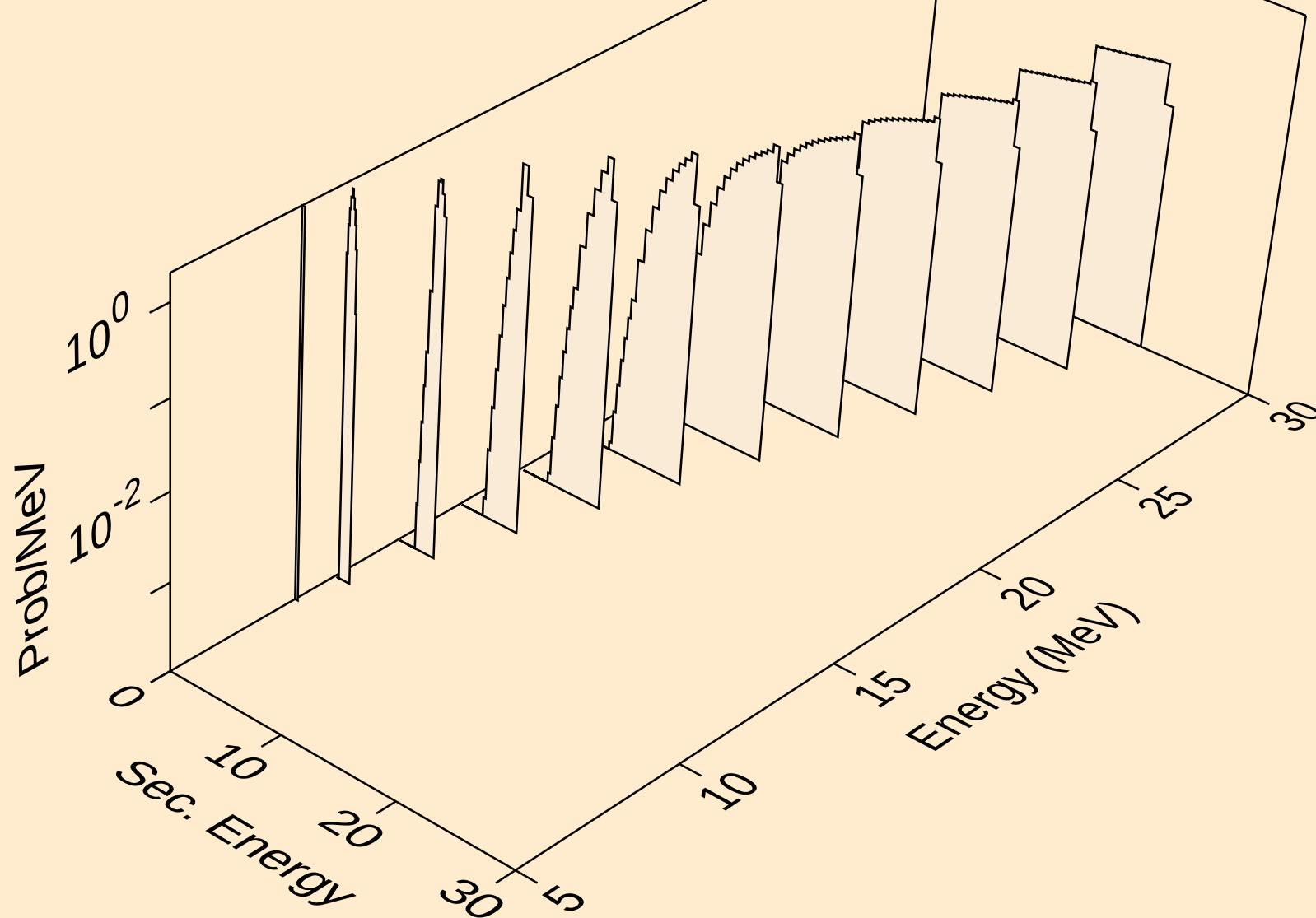


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d

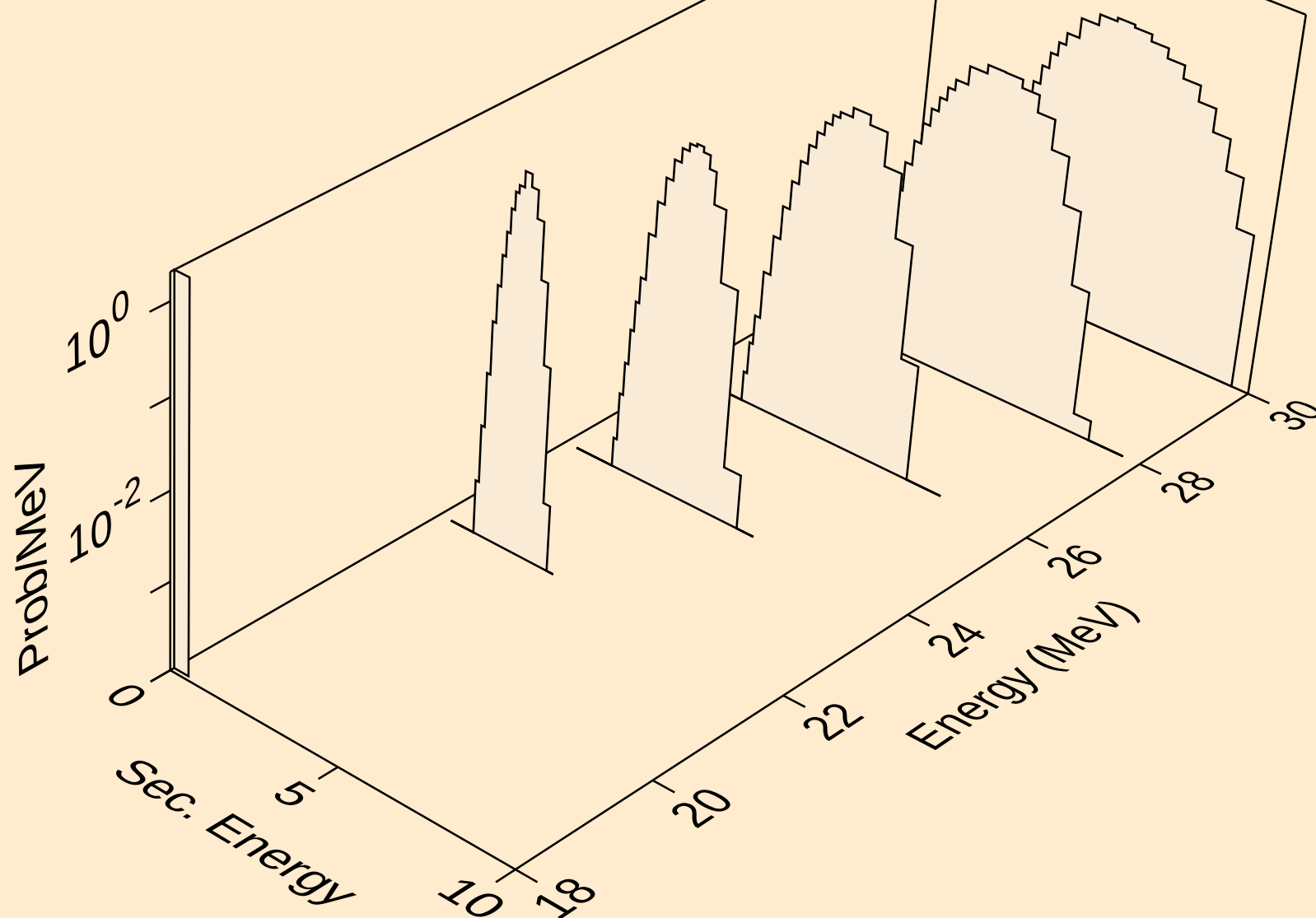




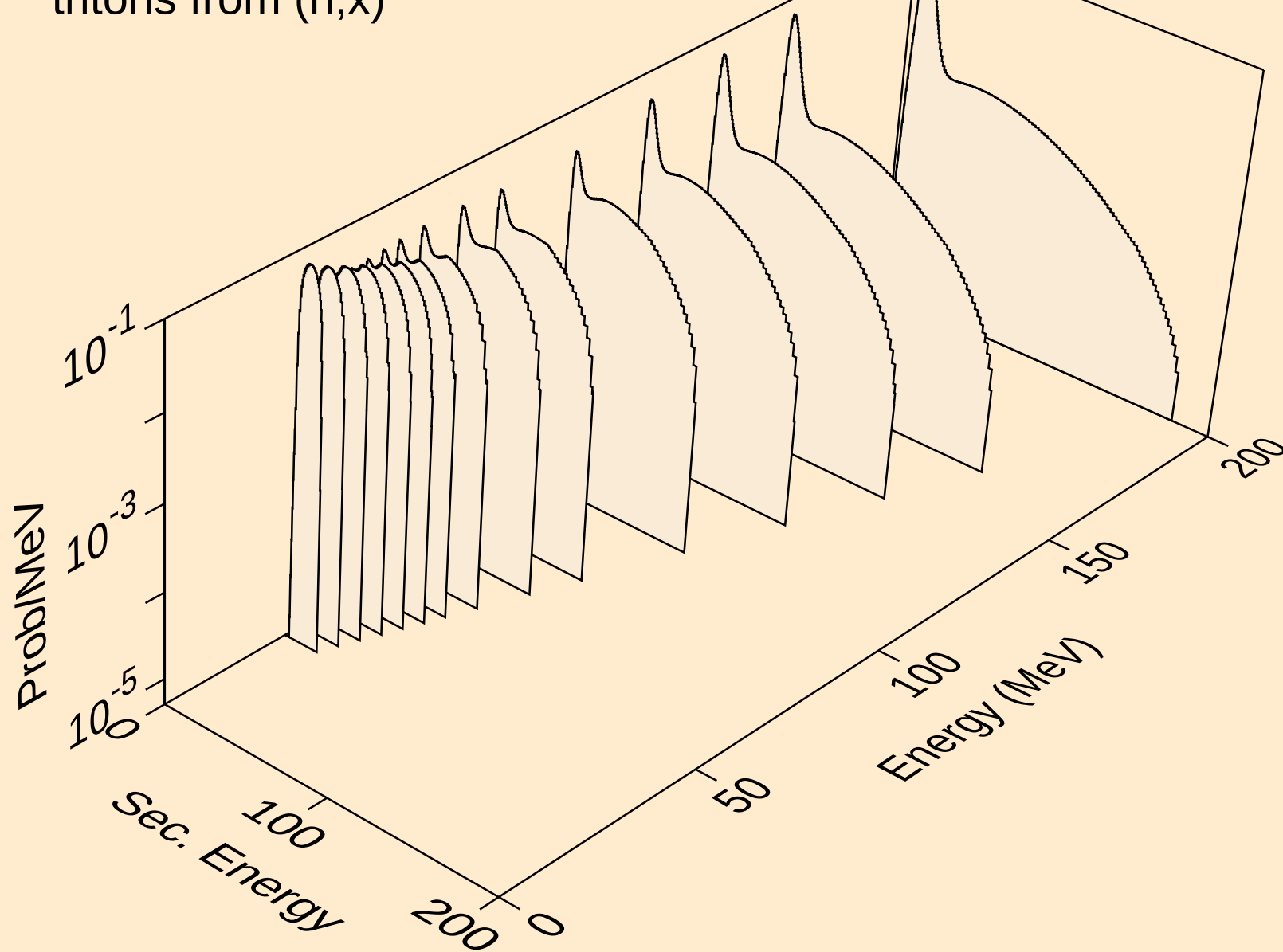
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deuterons from (n,d)



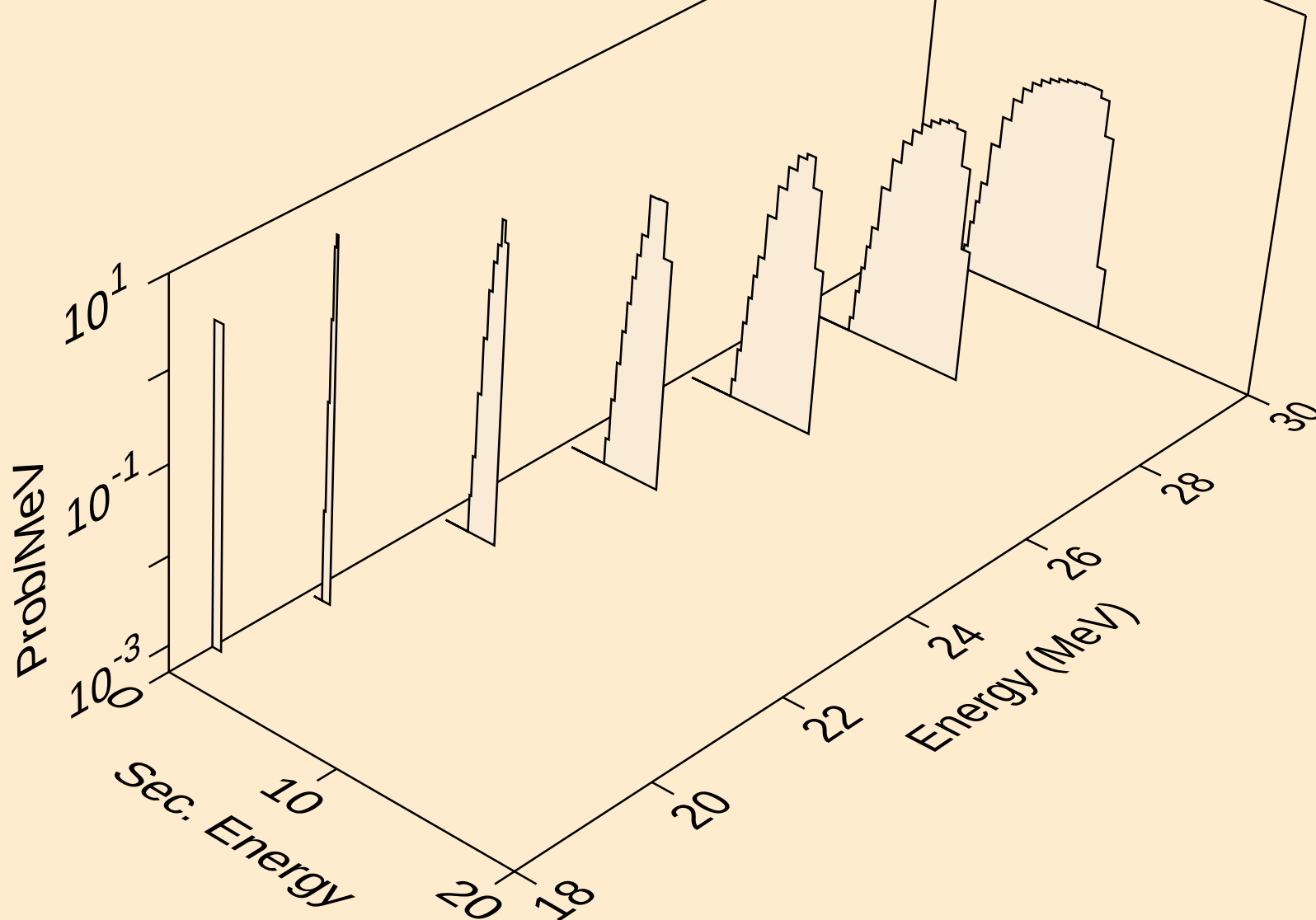
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deuterons from (n,pd)



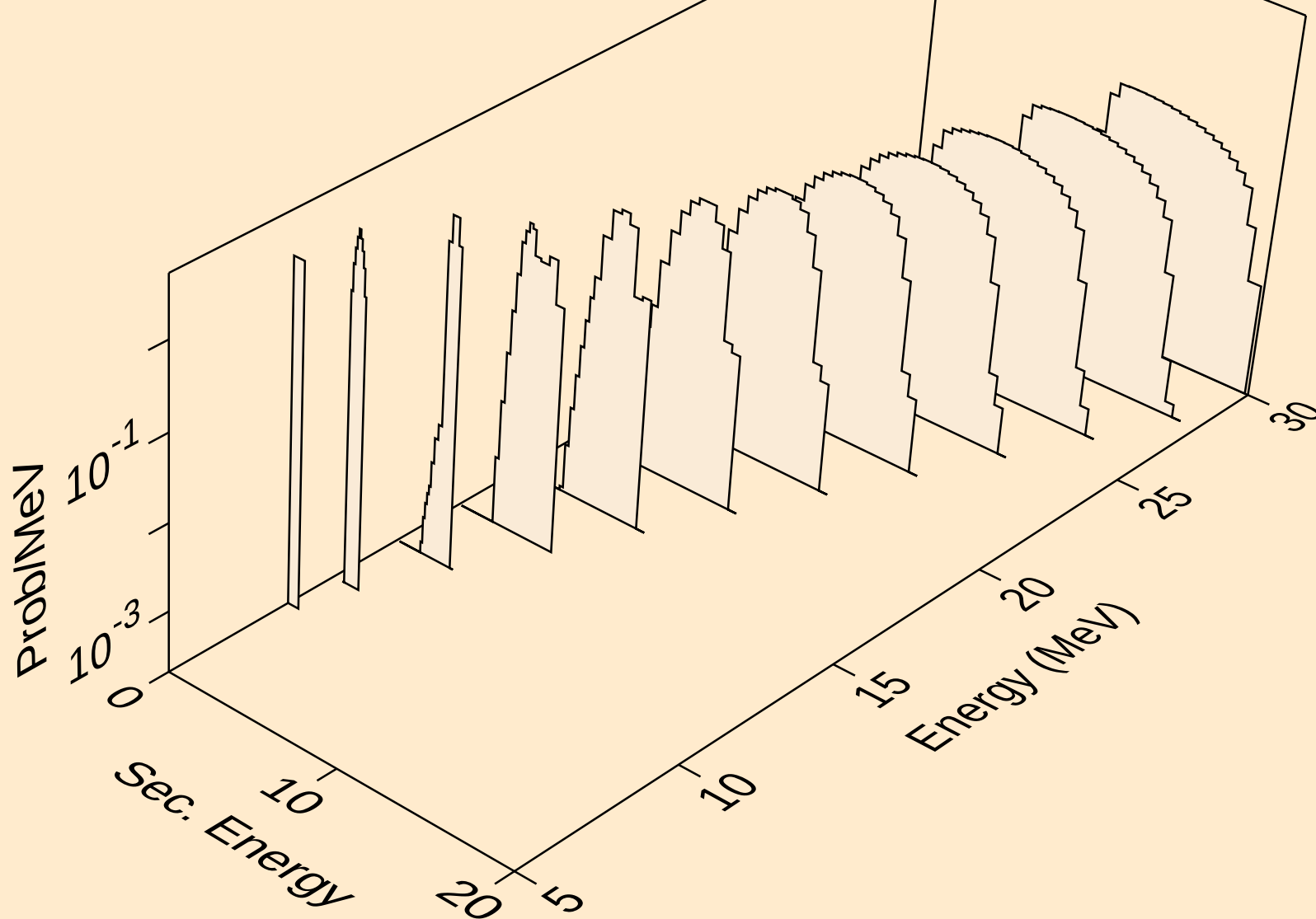
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tritons from (n,x)



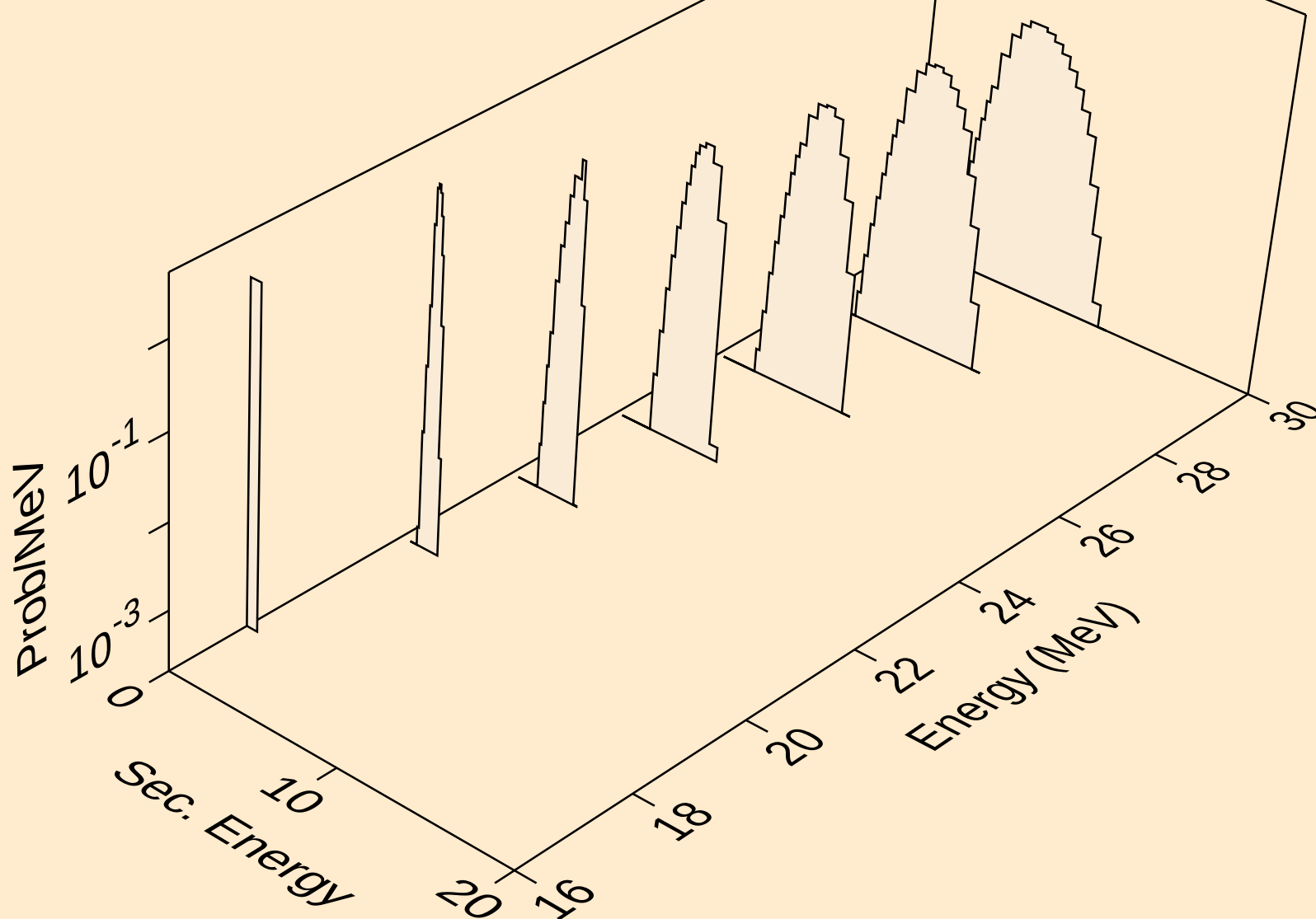
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



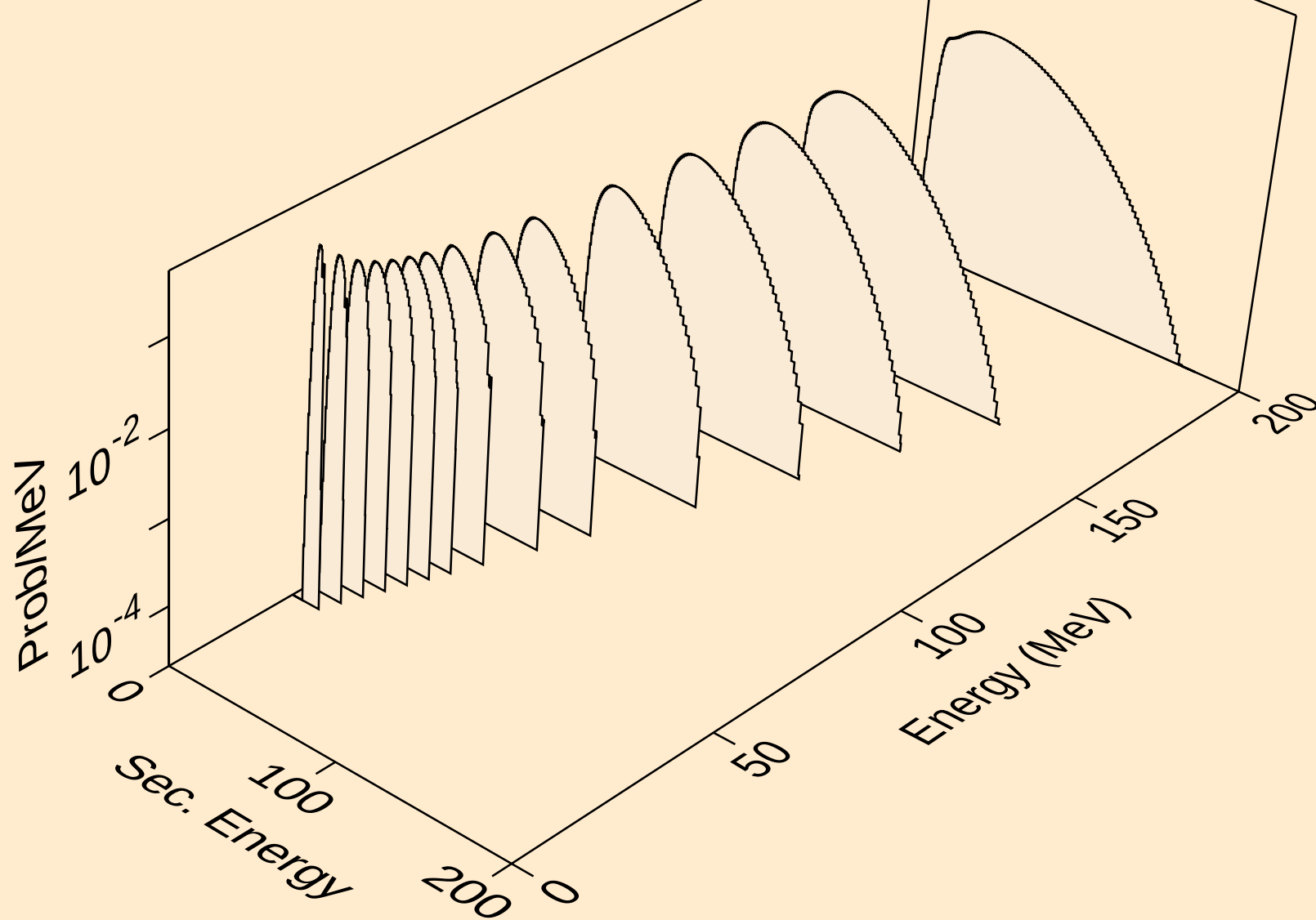
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tritons from (n,t)



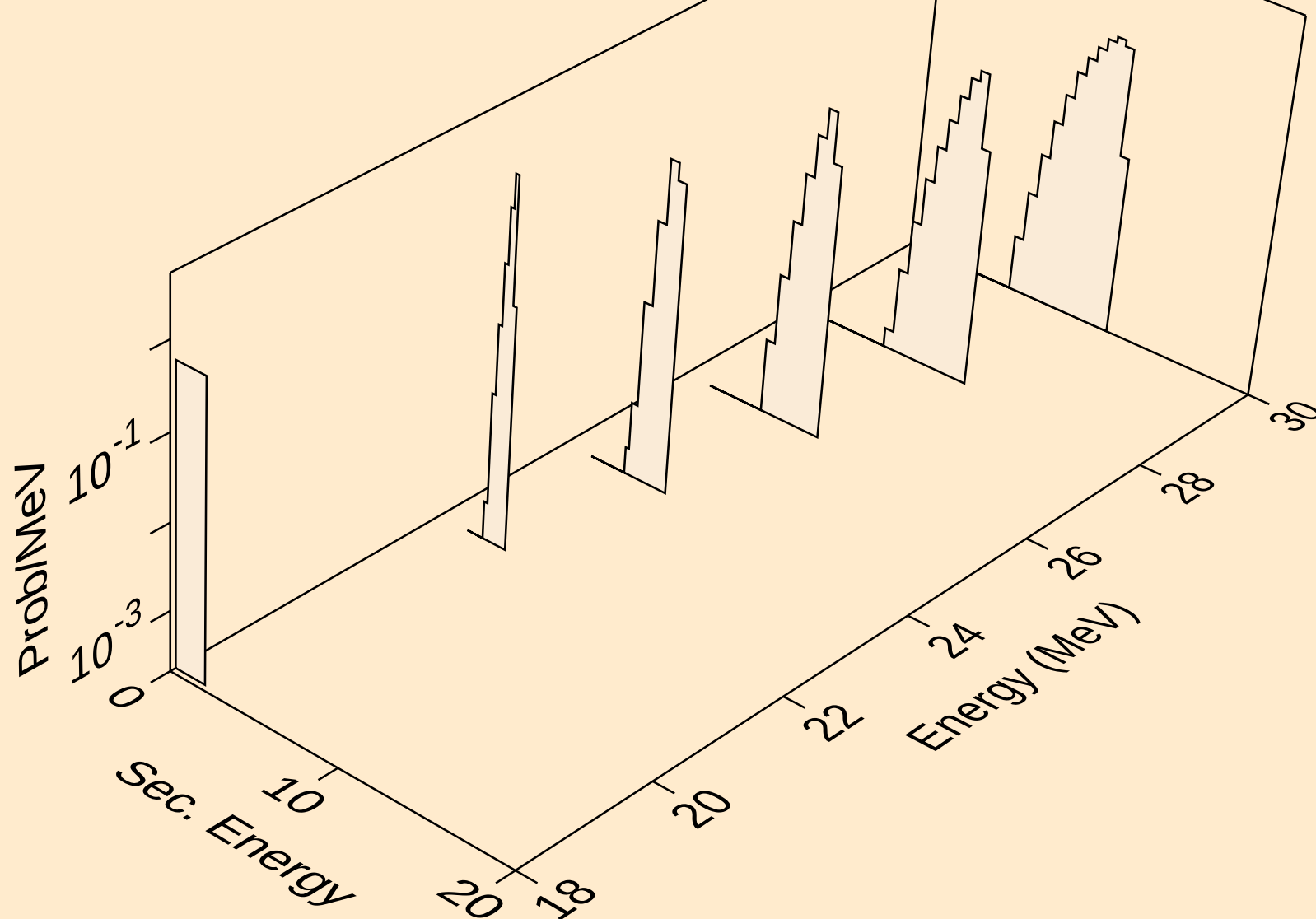
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,pt)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)

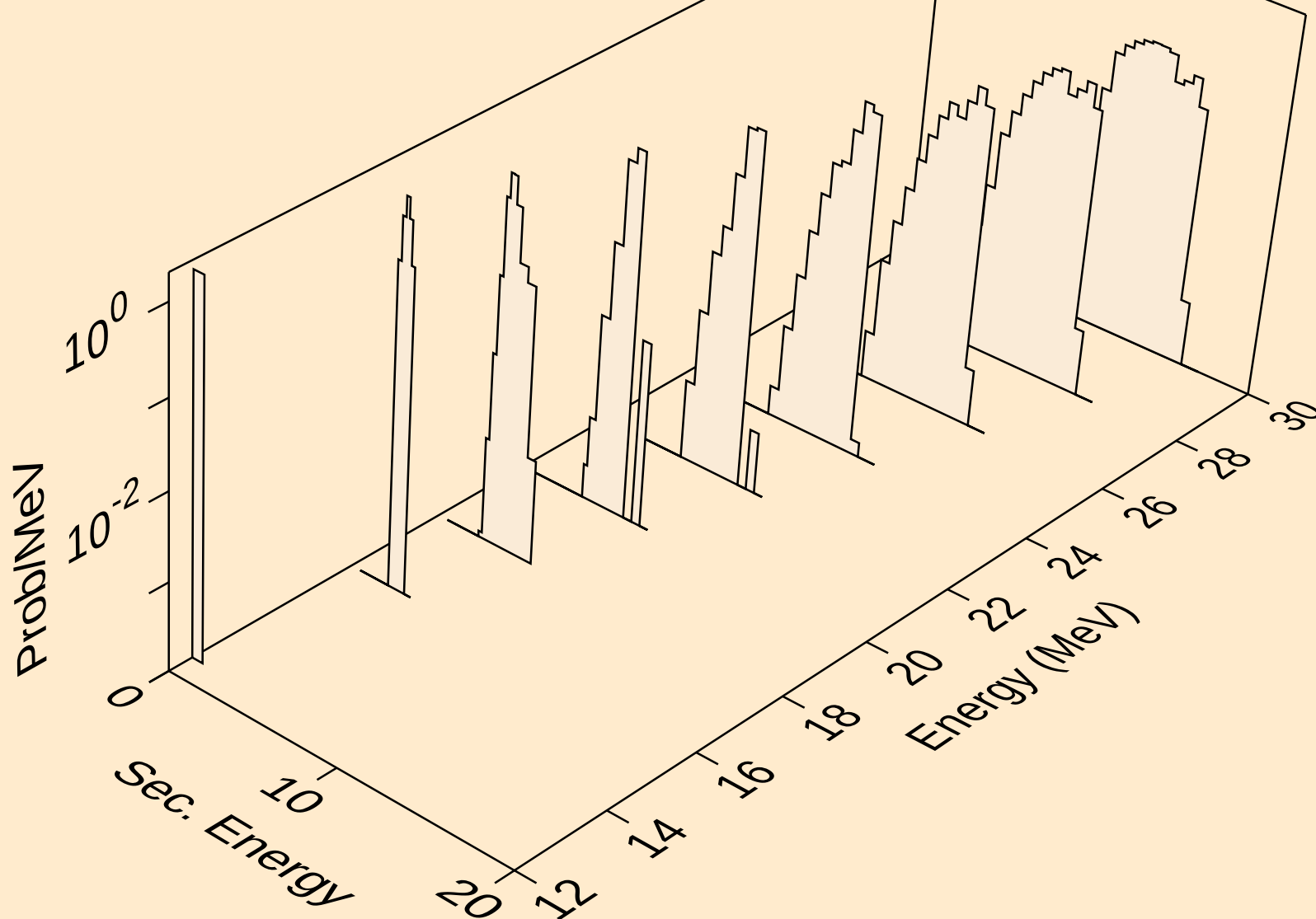


SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3

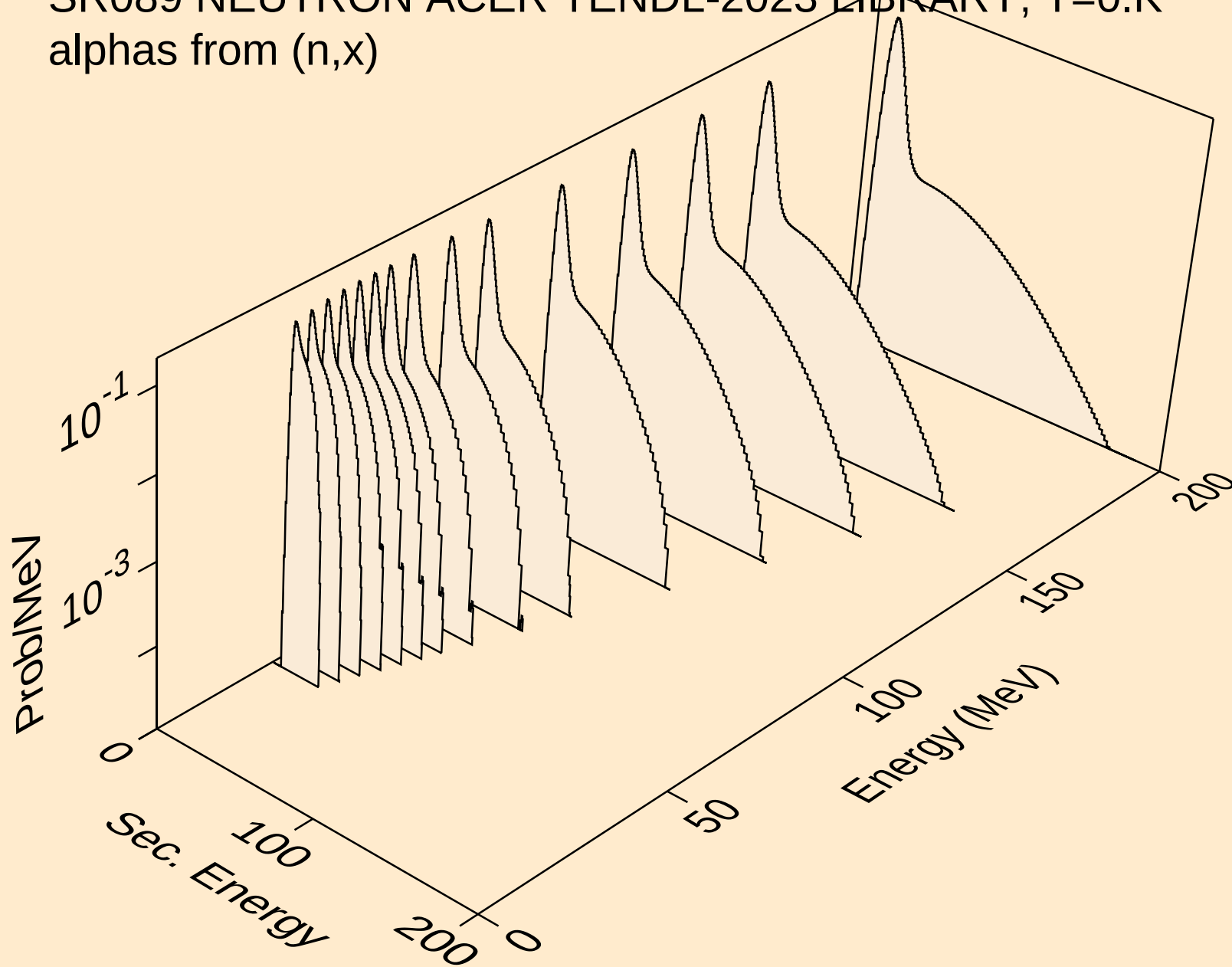




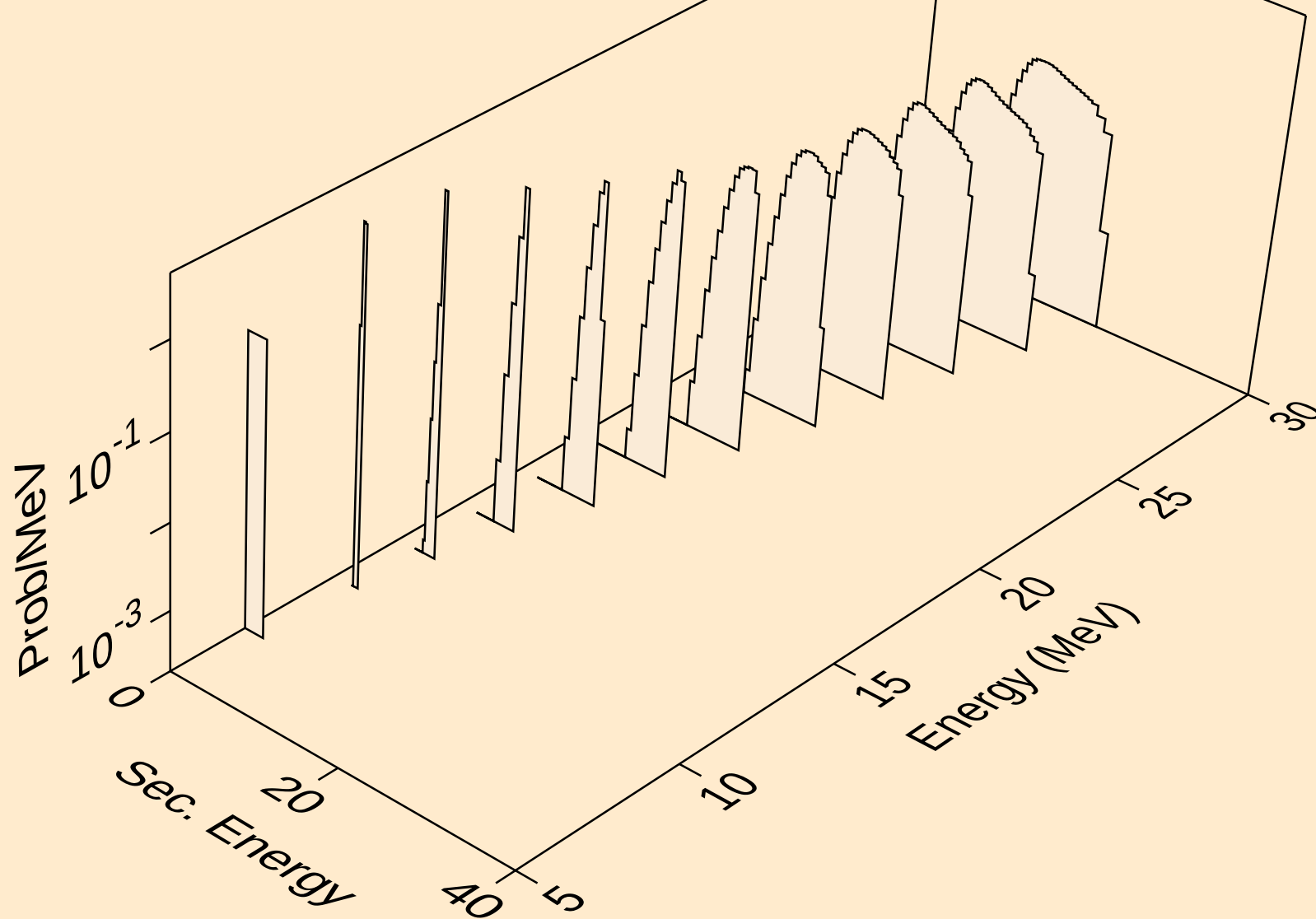
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he3s from (n,he3)



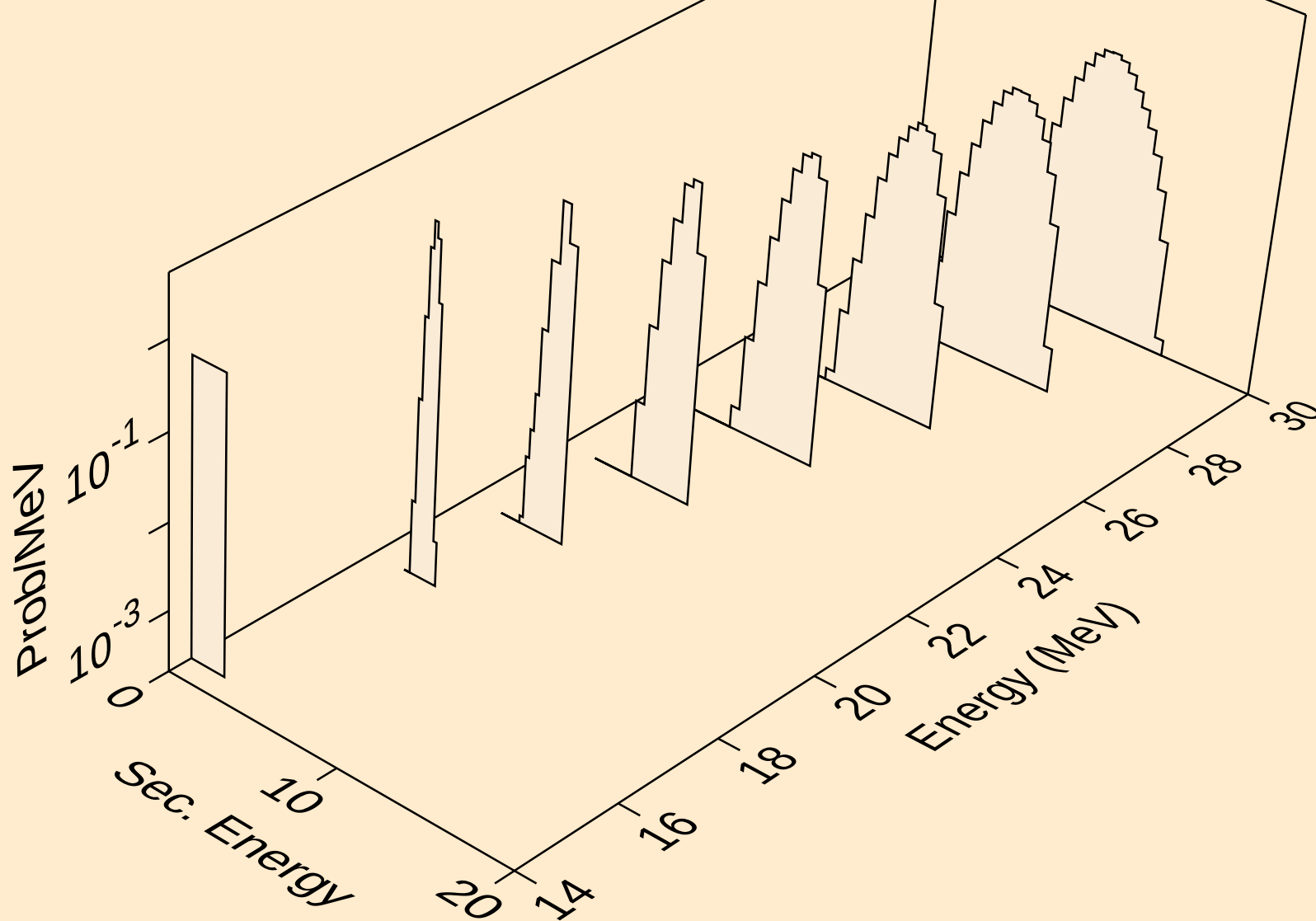
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



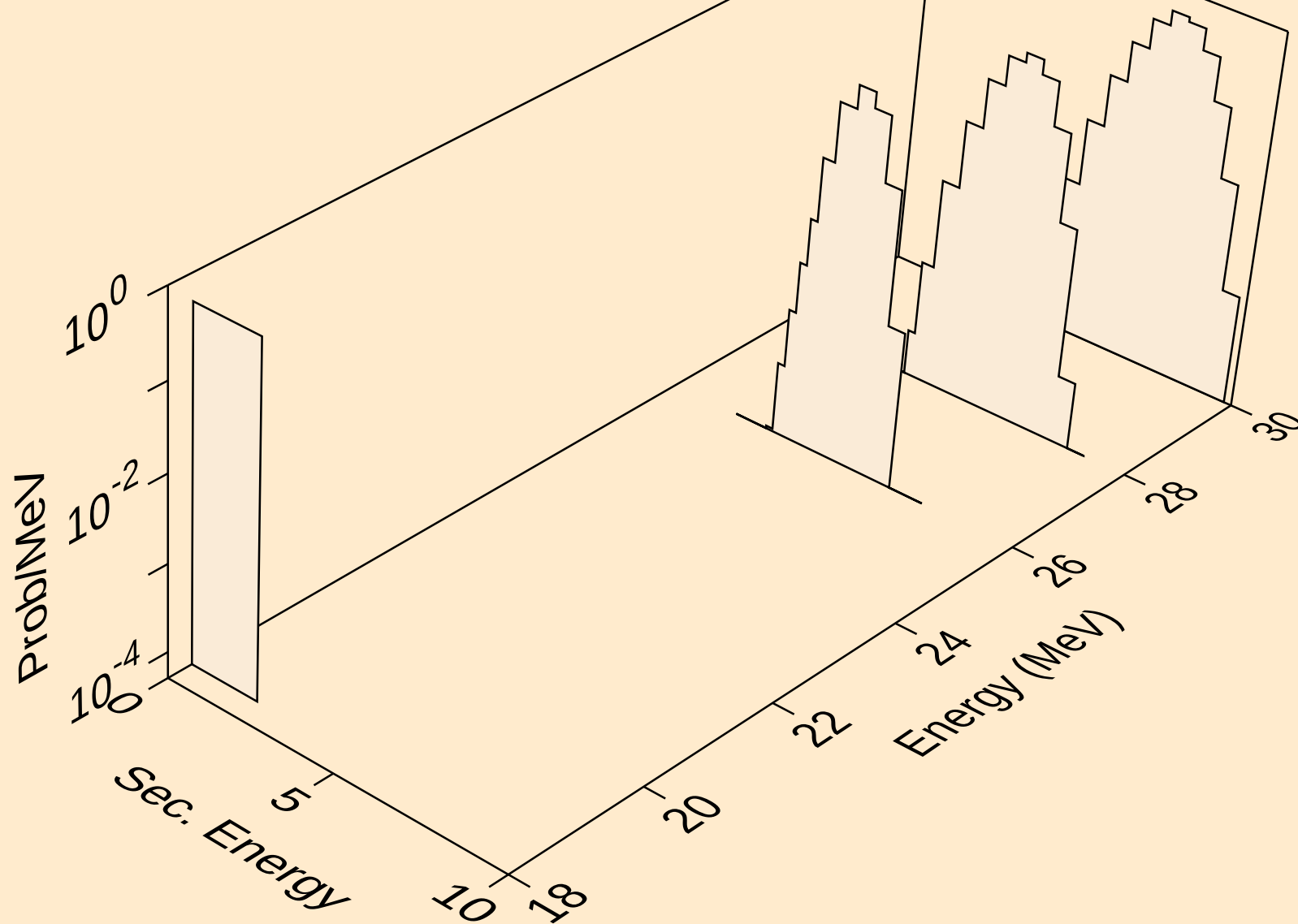
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



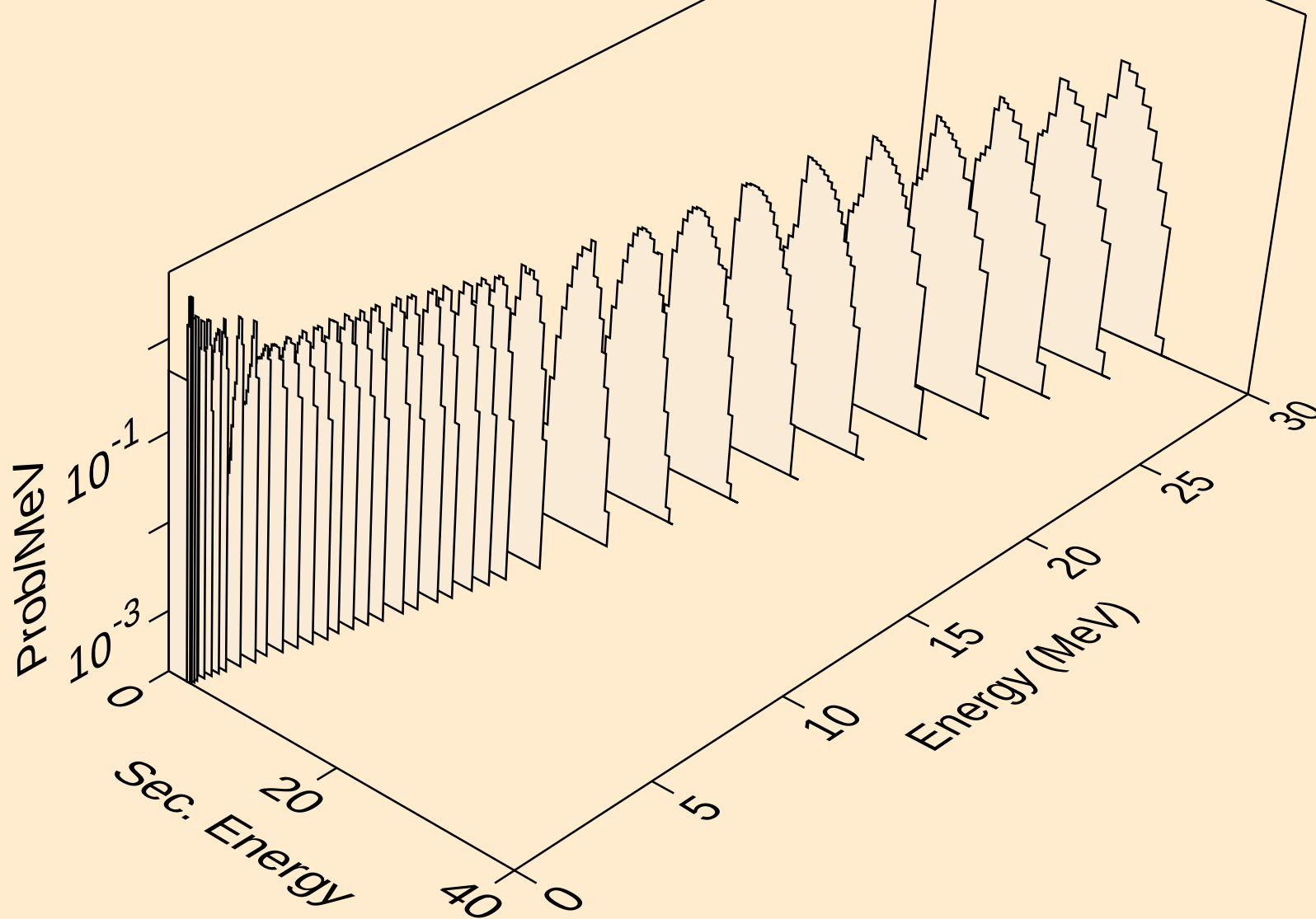
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a



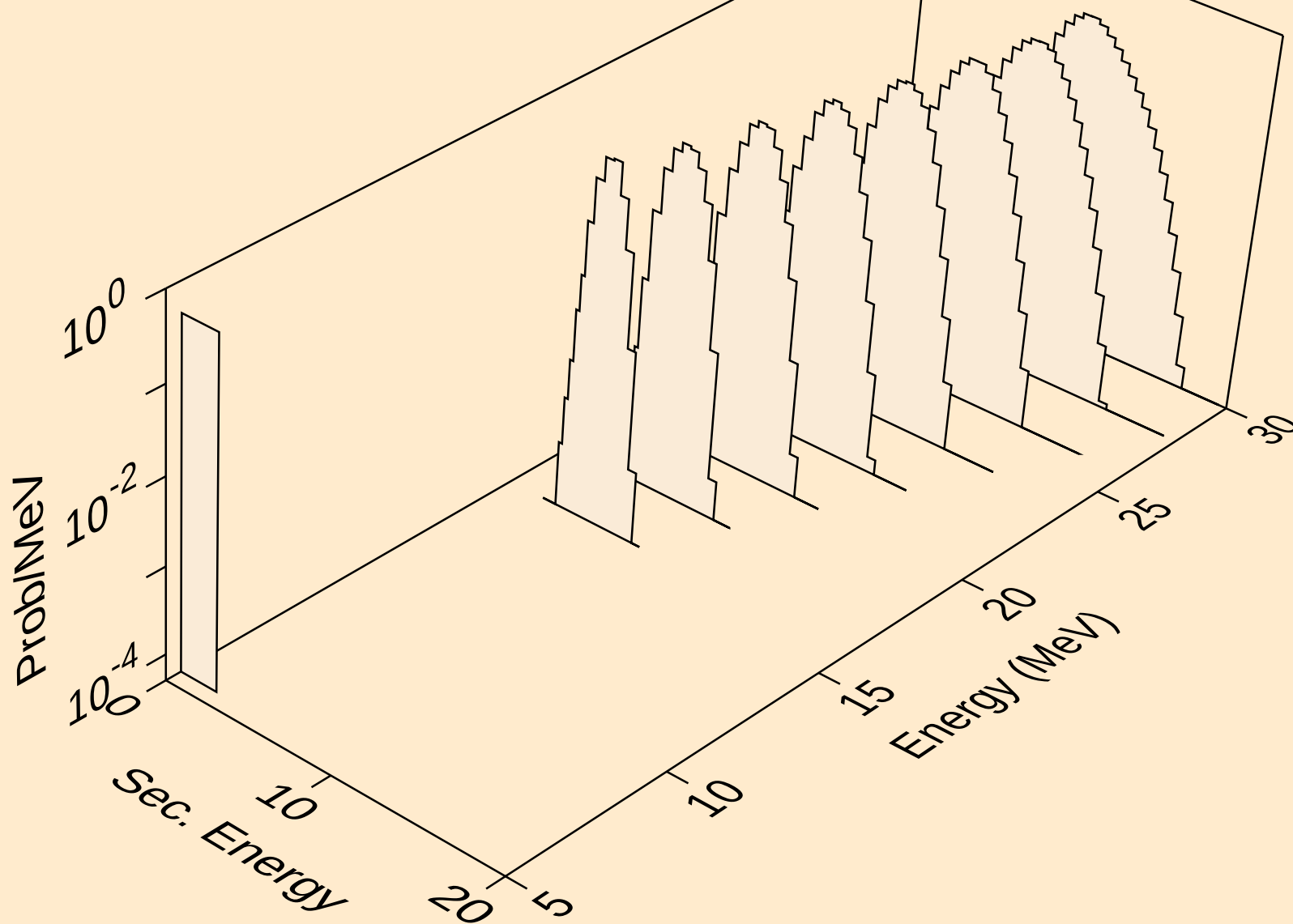
SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



SR089 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)

