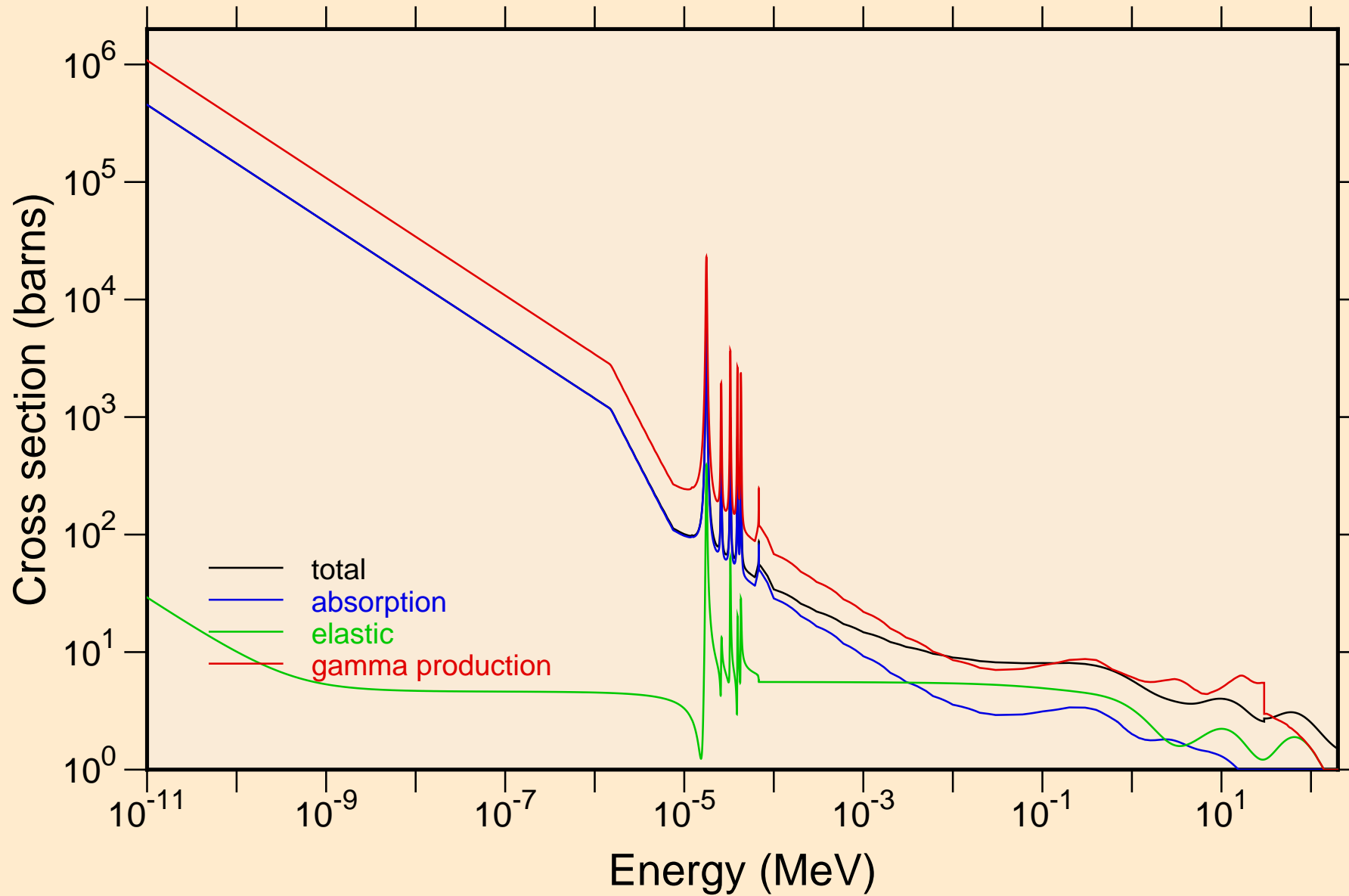
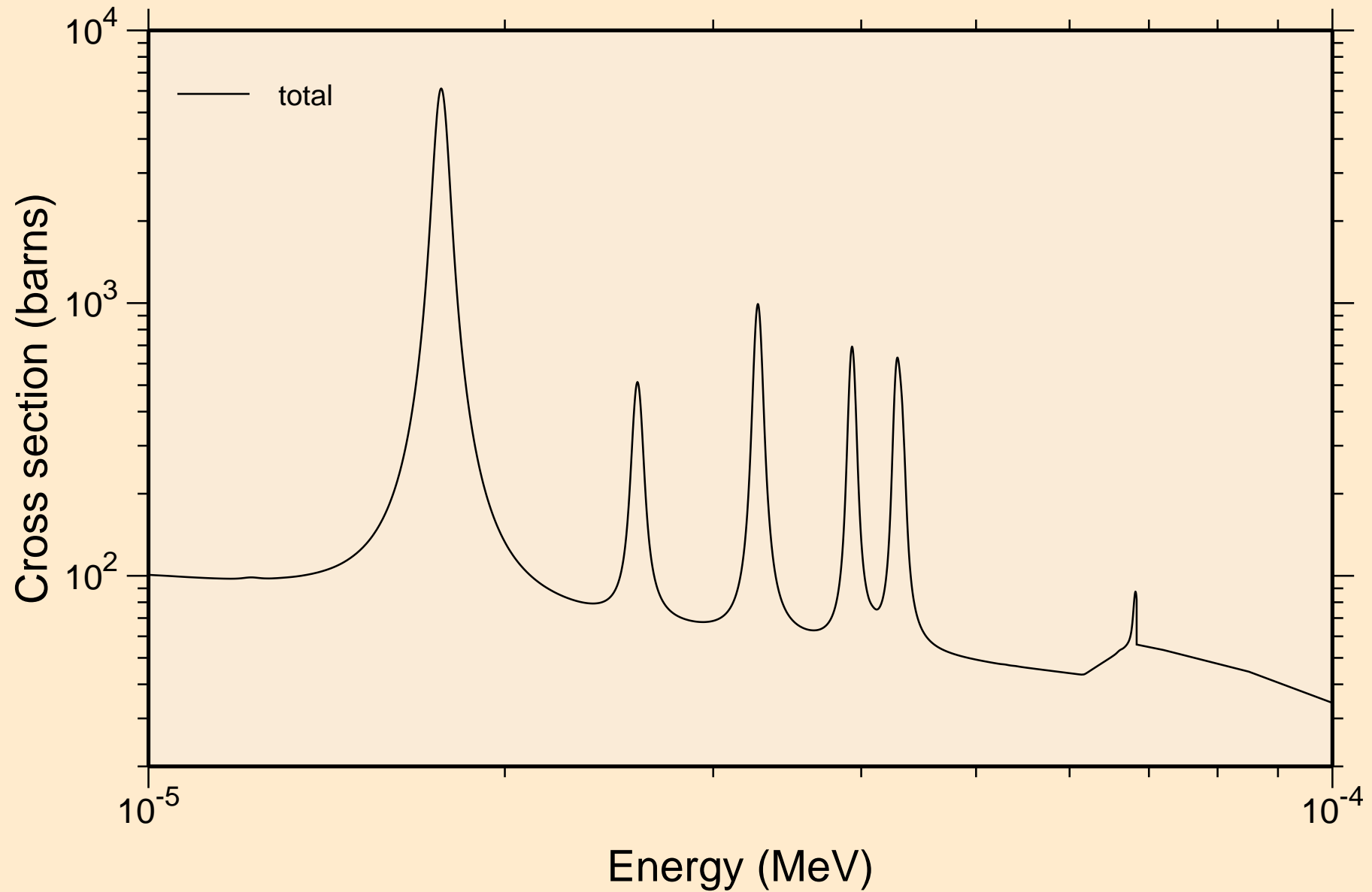


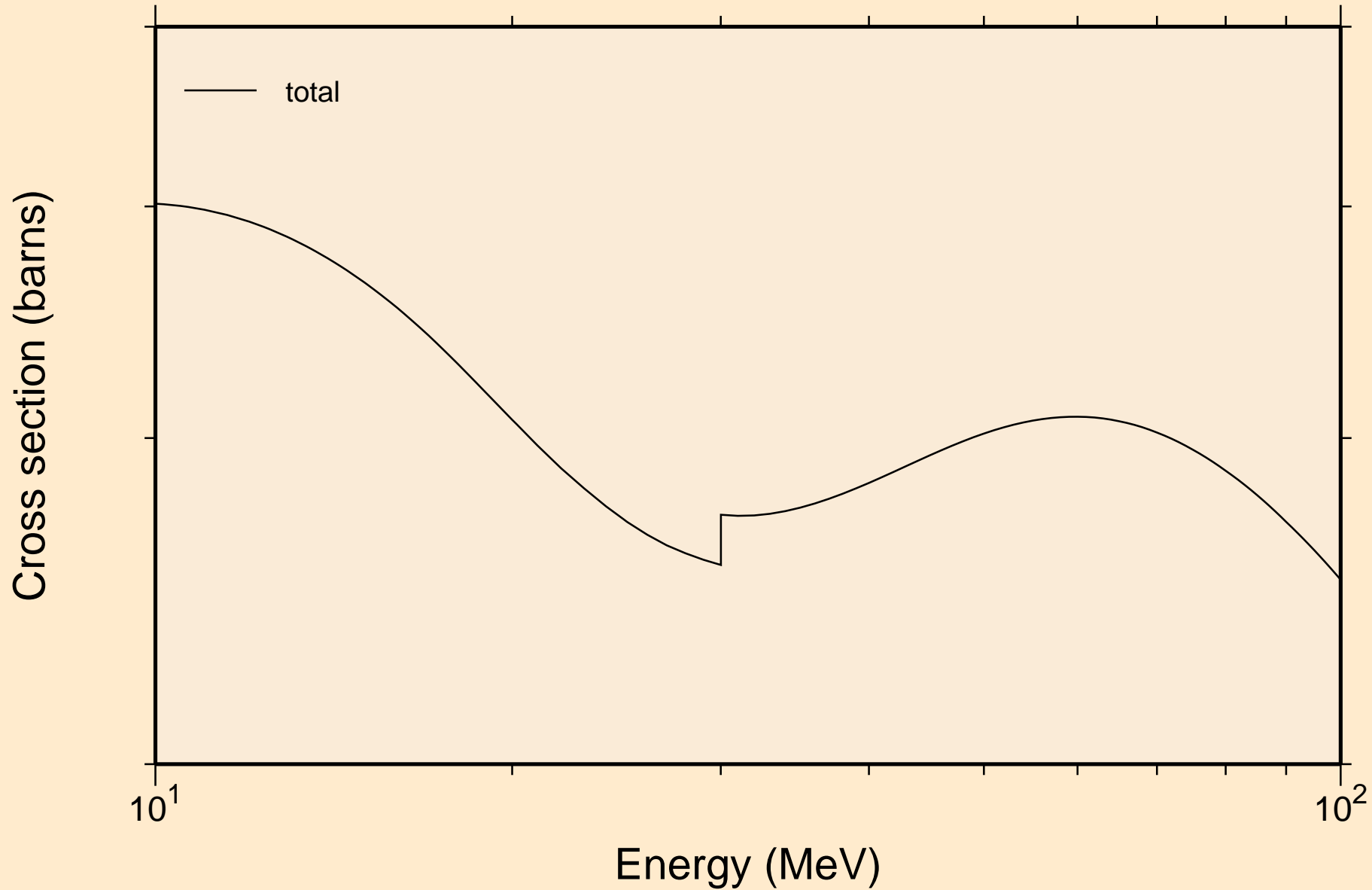
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Principal cross sections



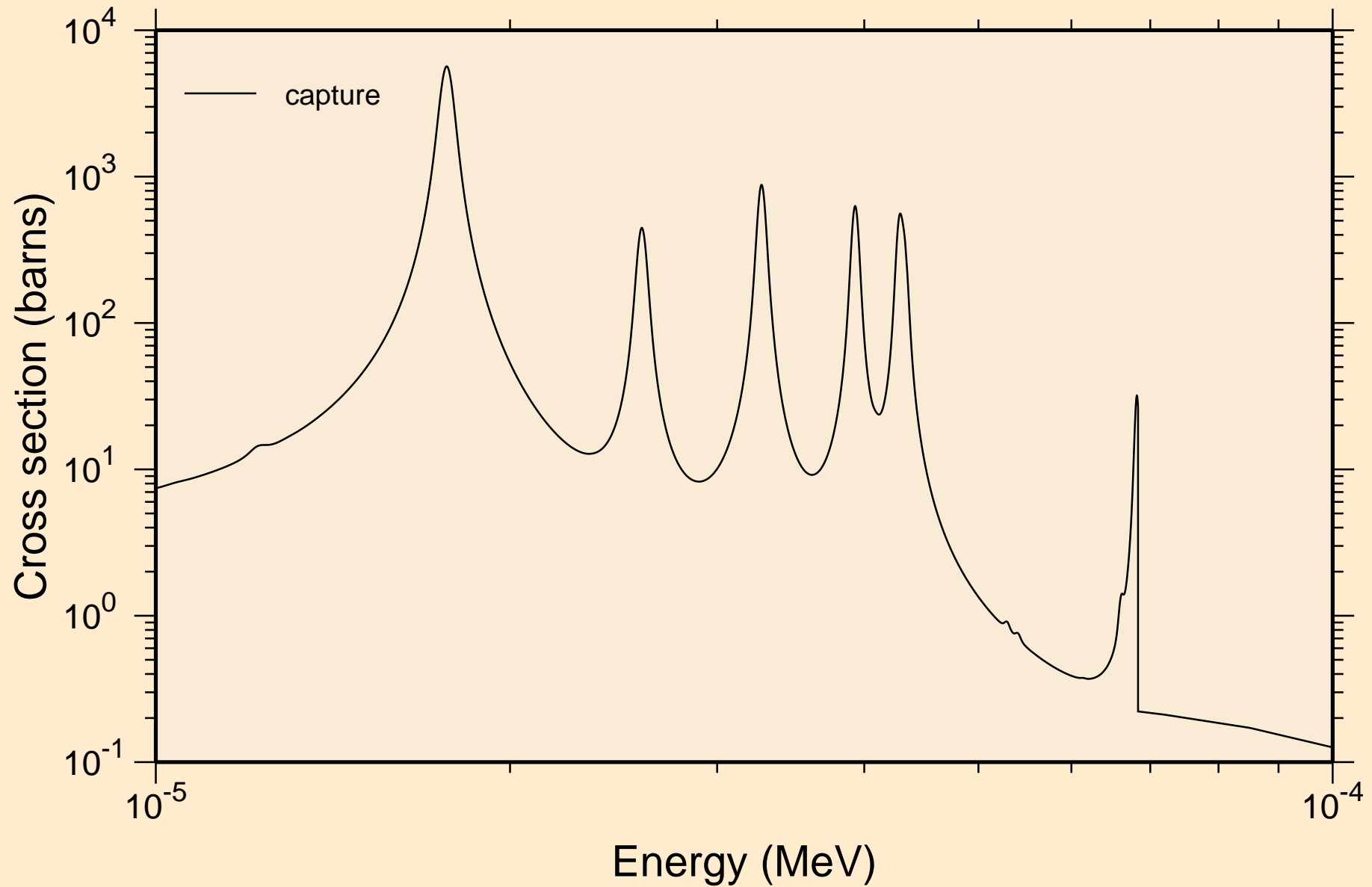
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



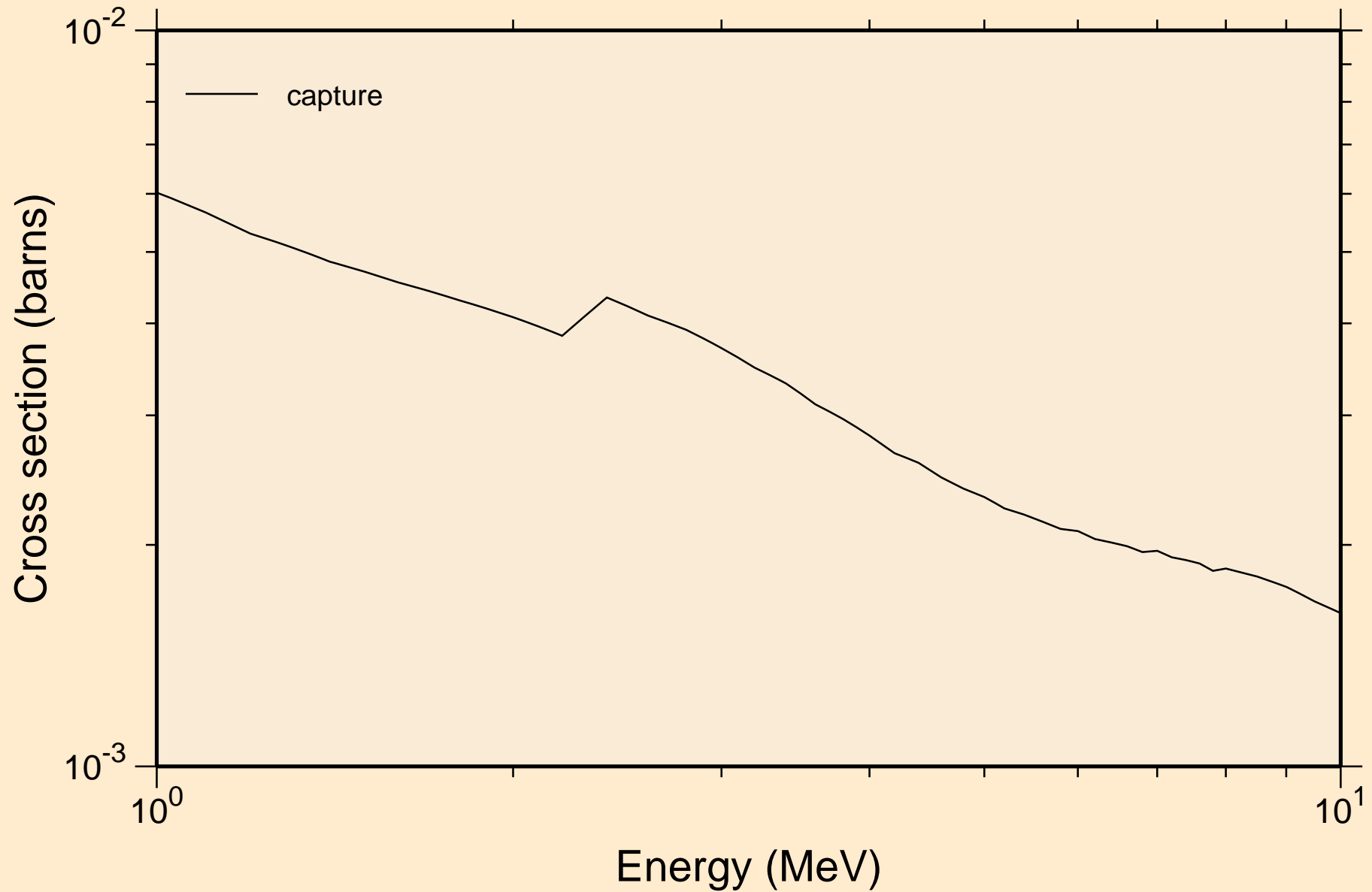
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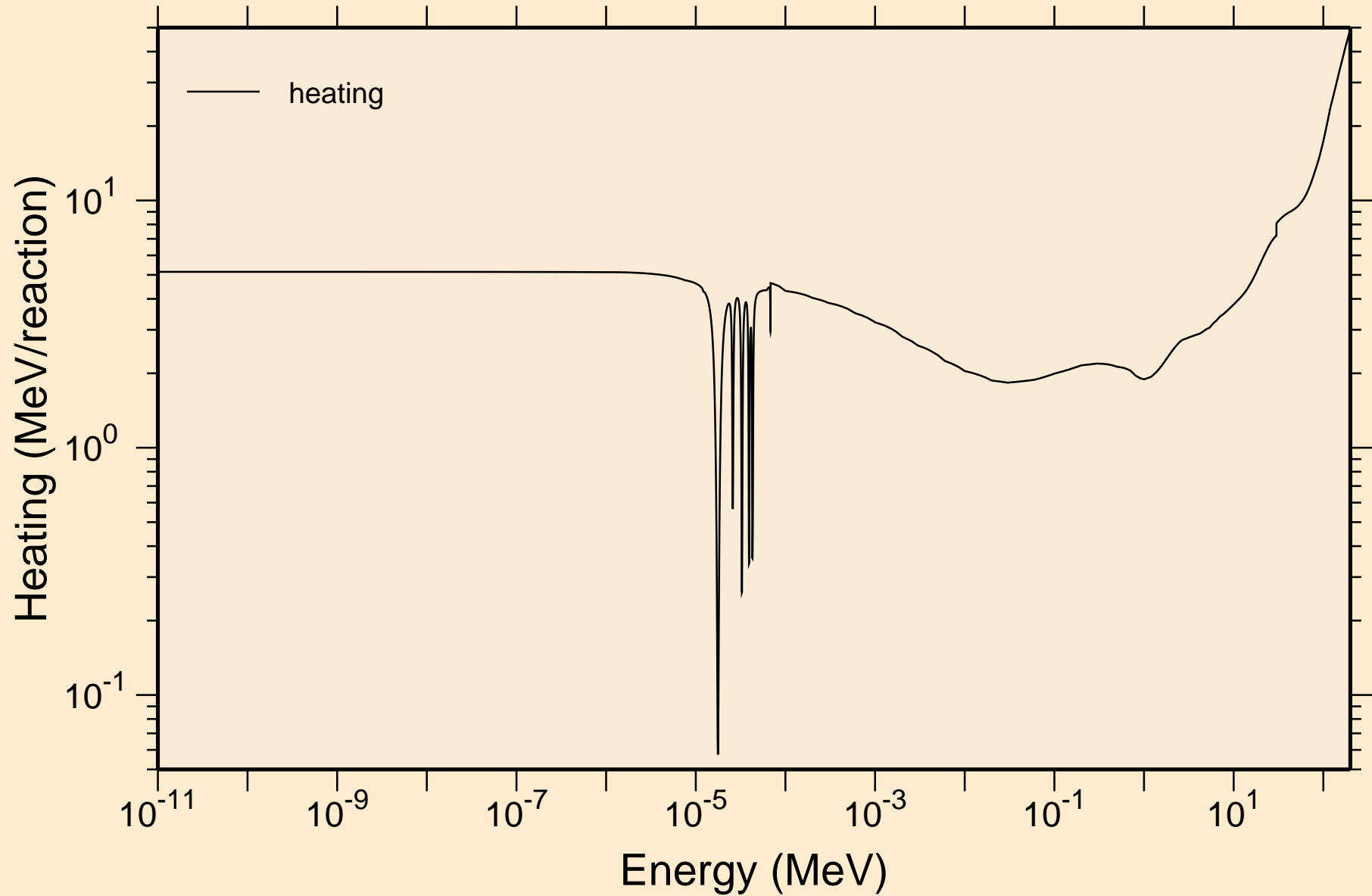
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



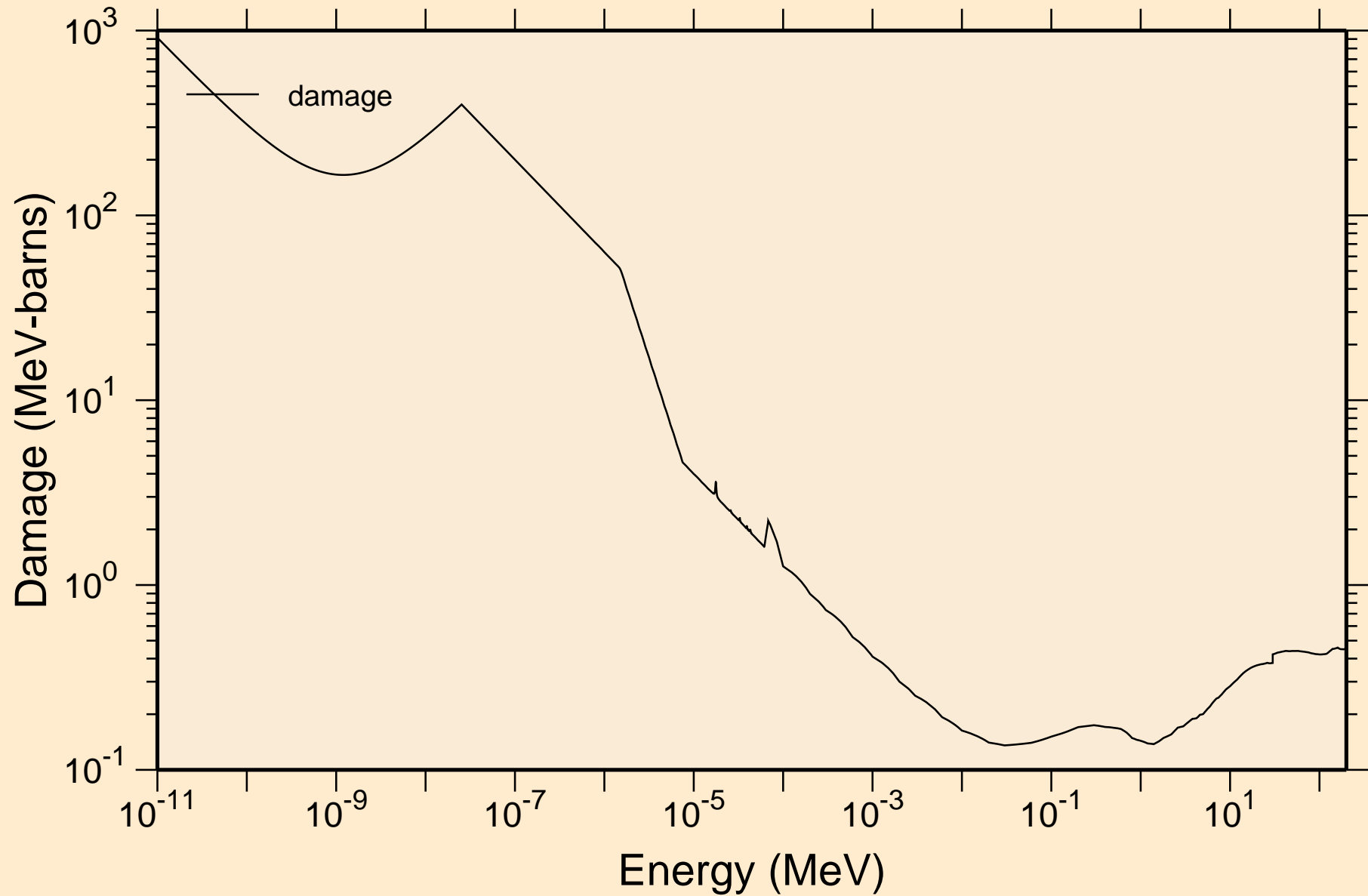
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resonance absorption cross sections



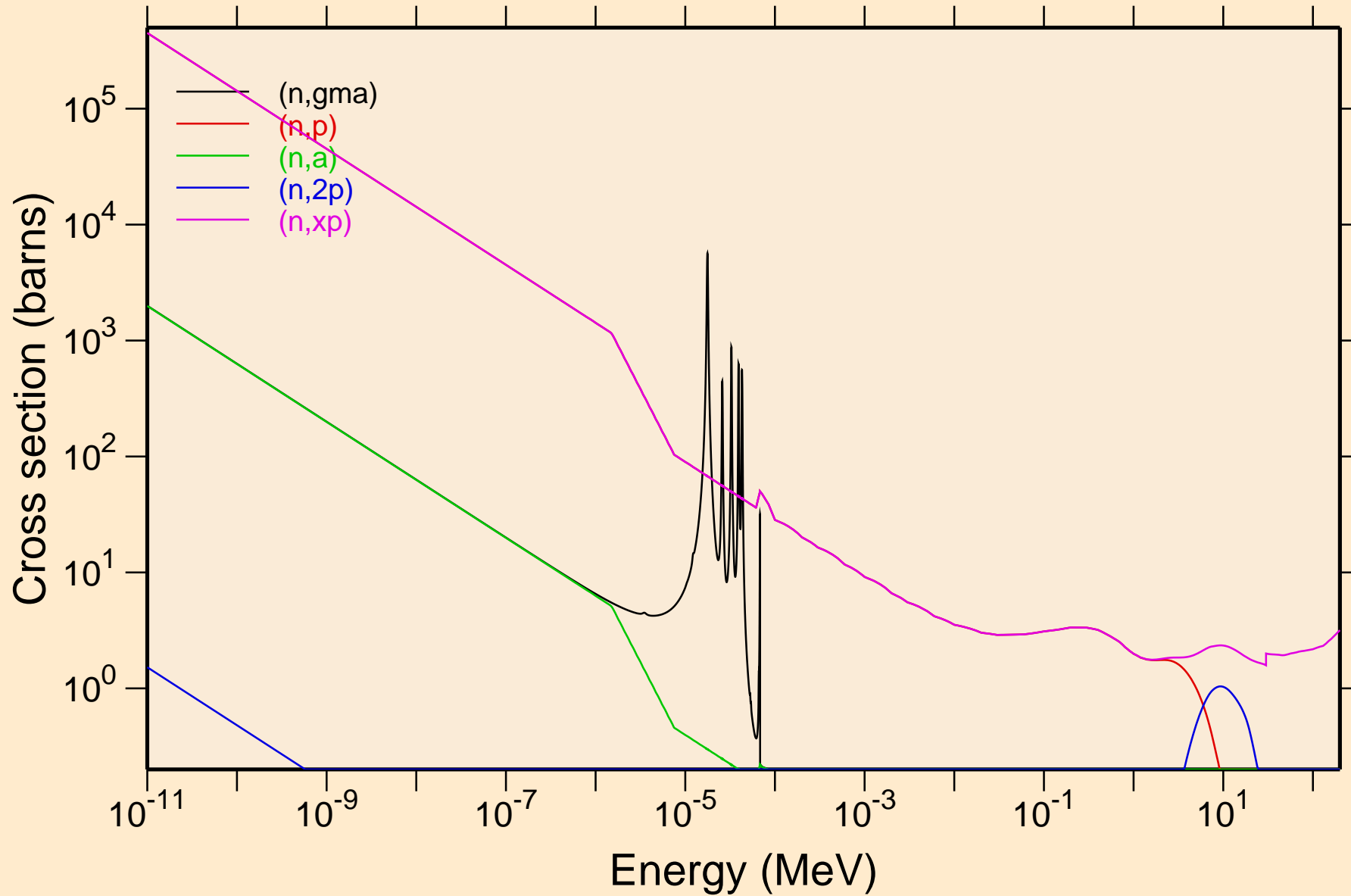
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

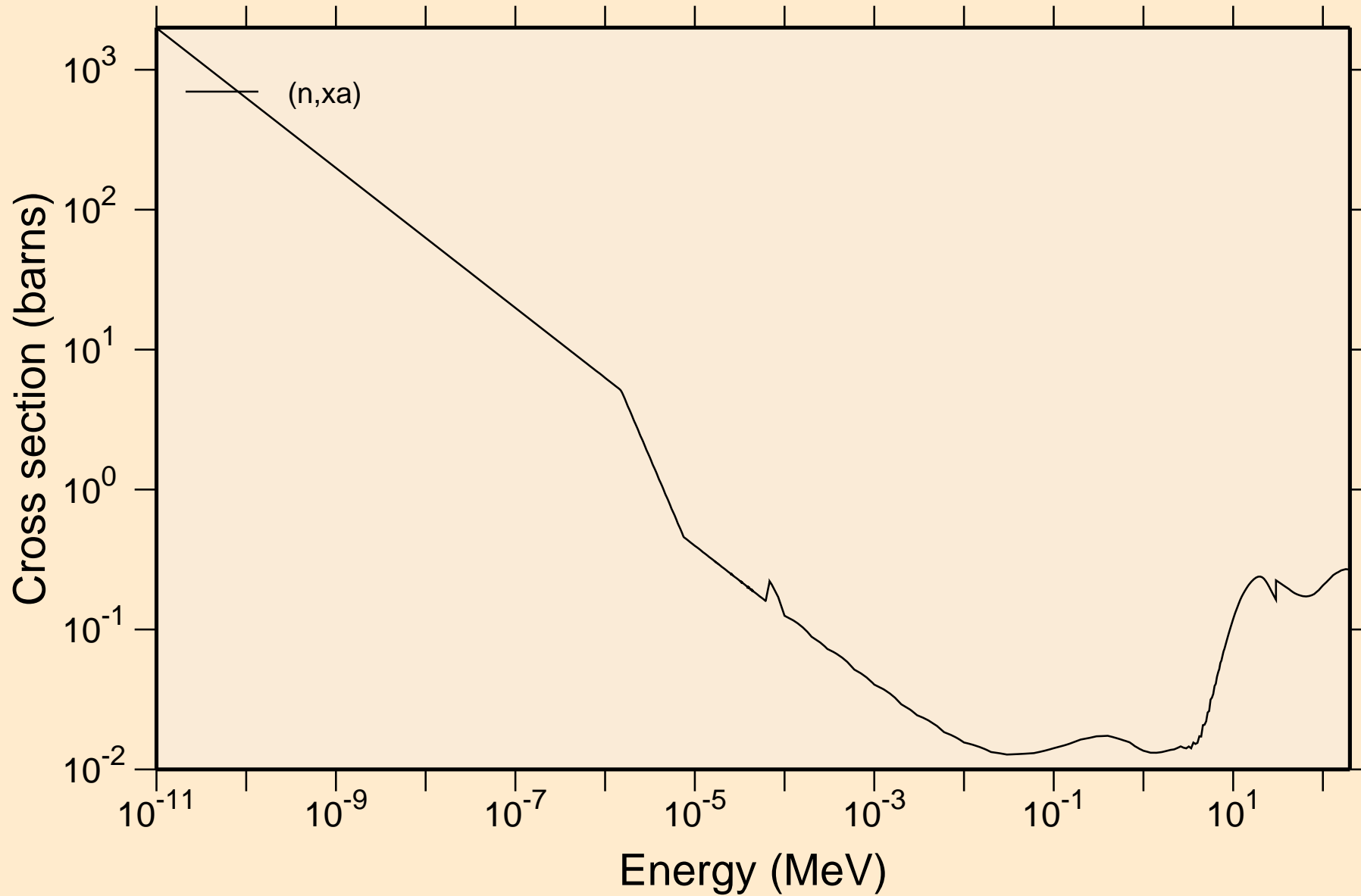


ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



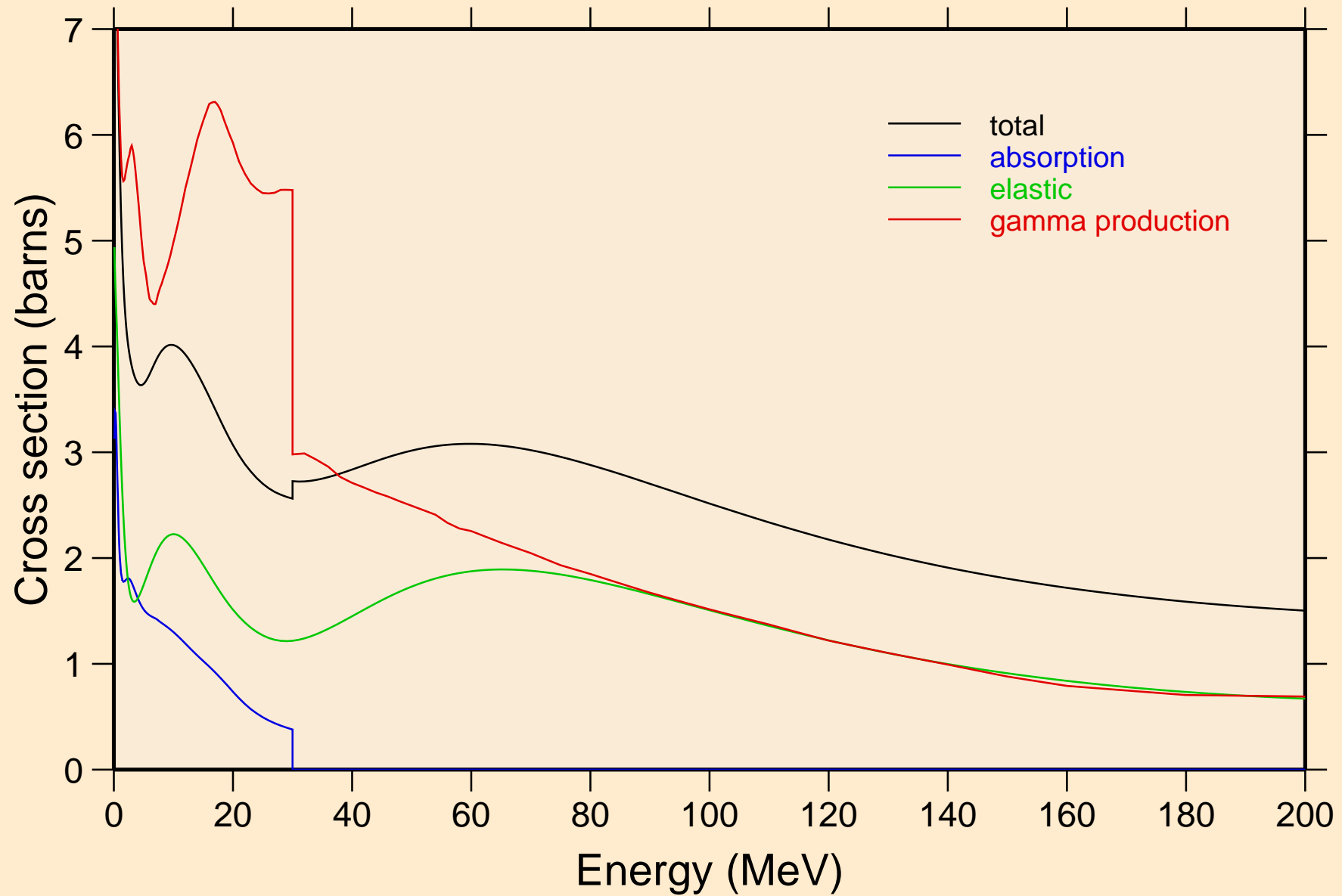


ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



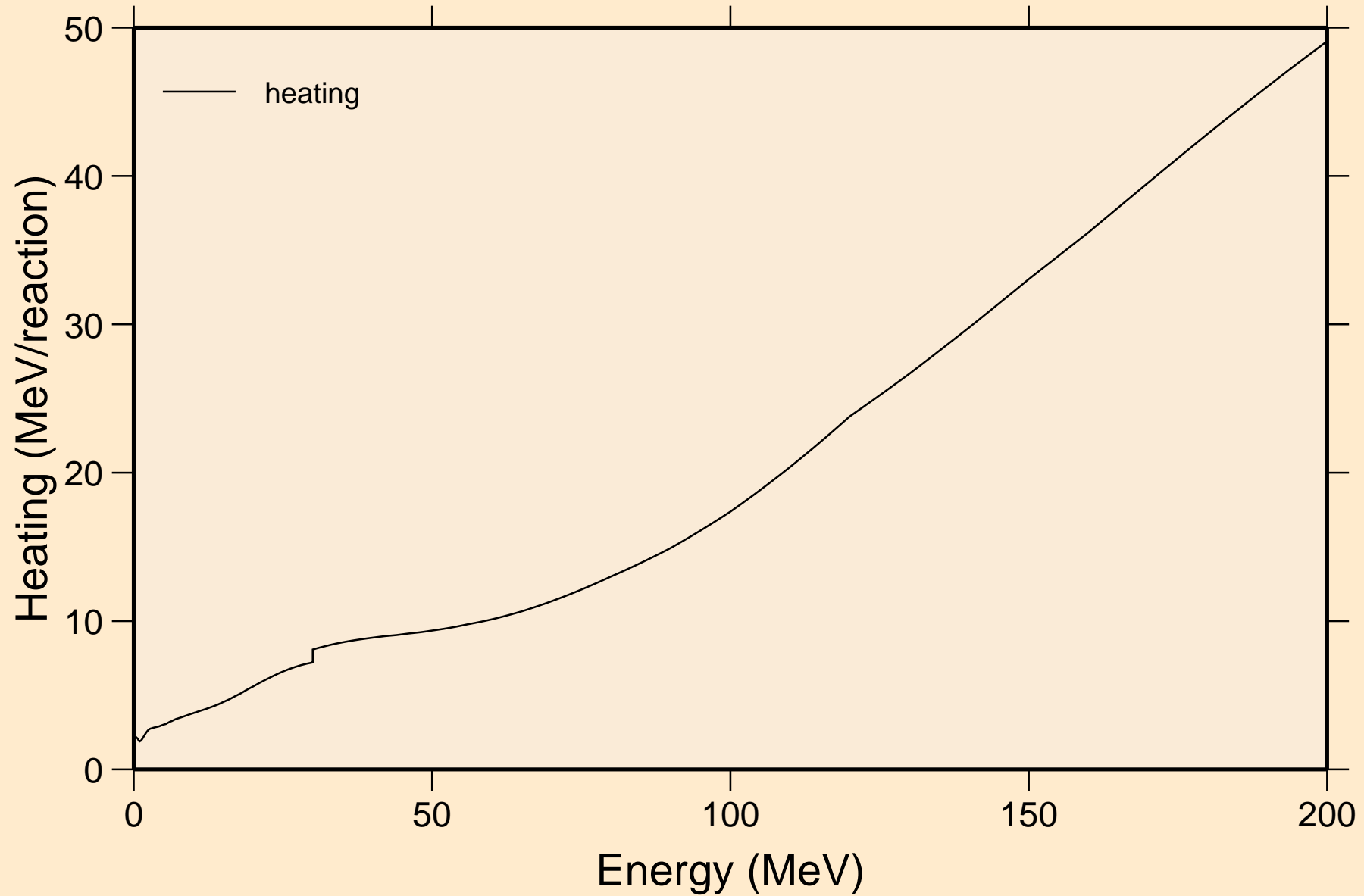
# ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Principal cross sections

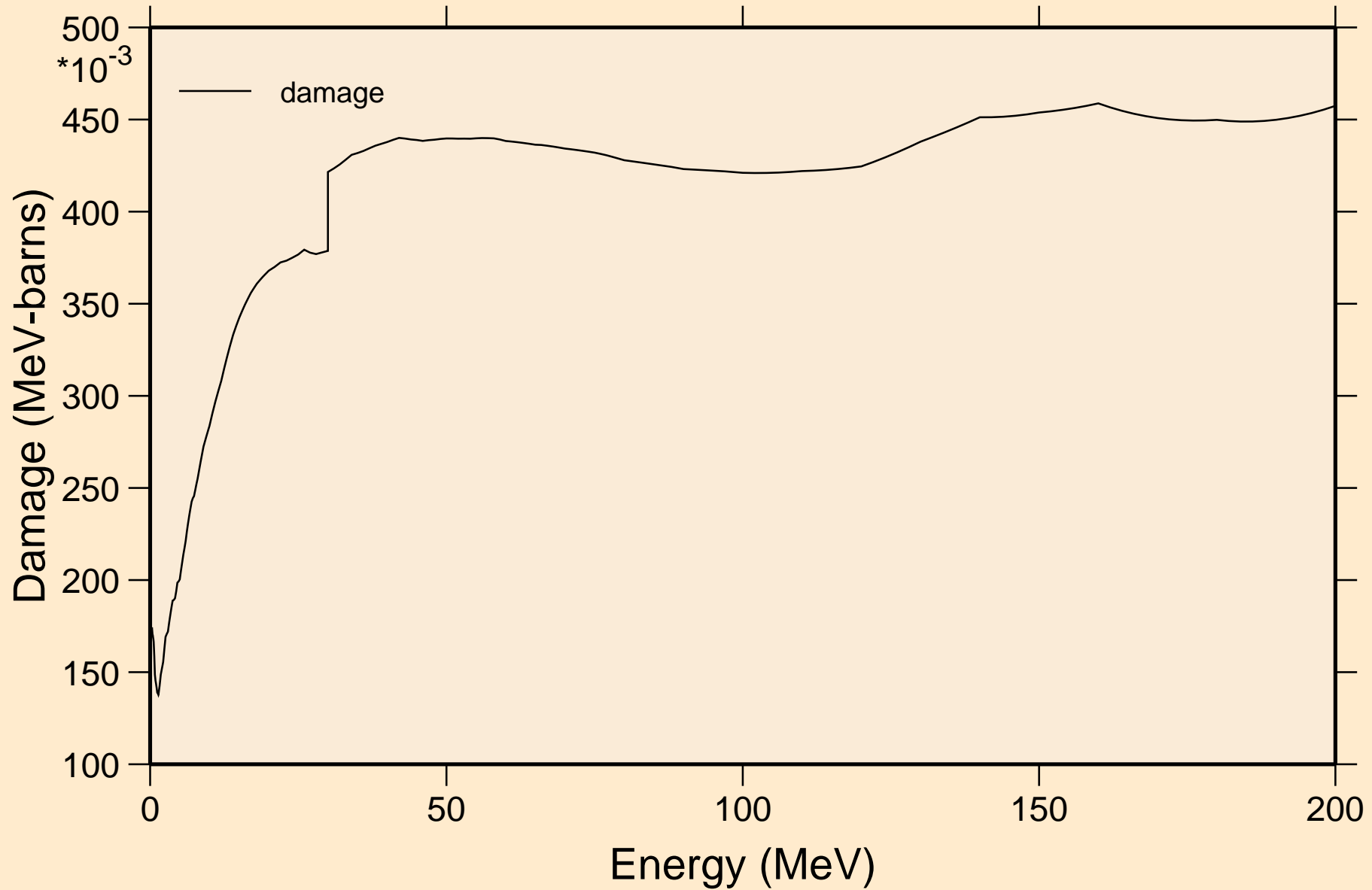


# ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

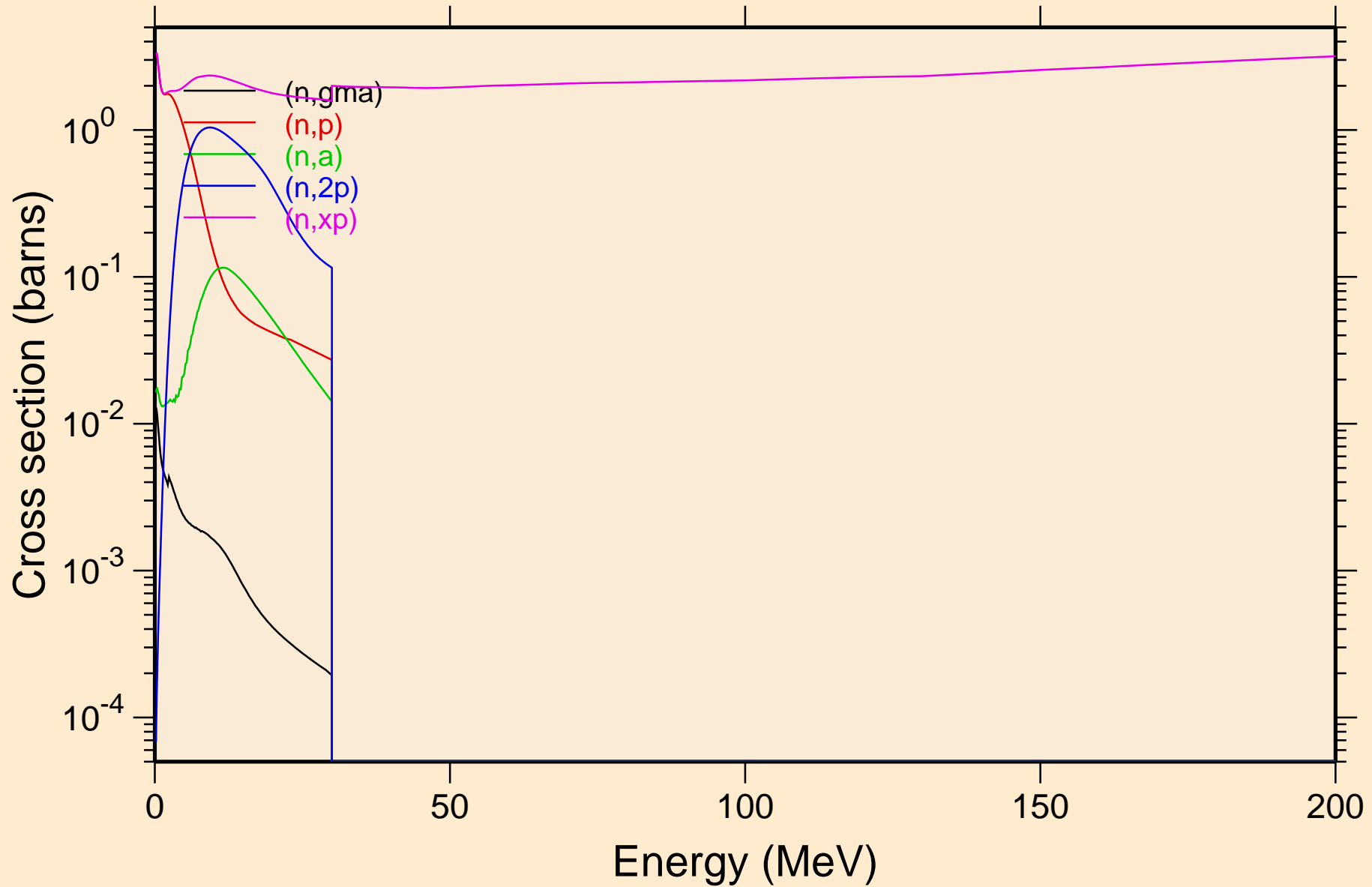
## Heating



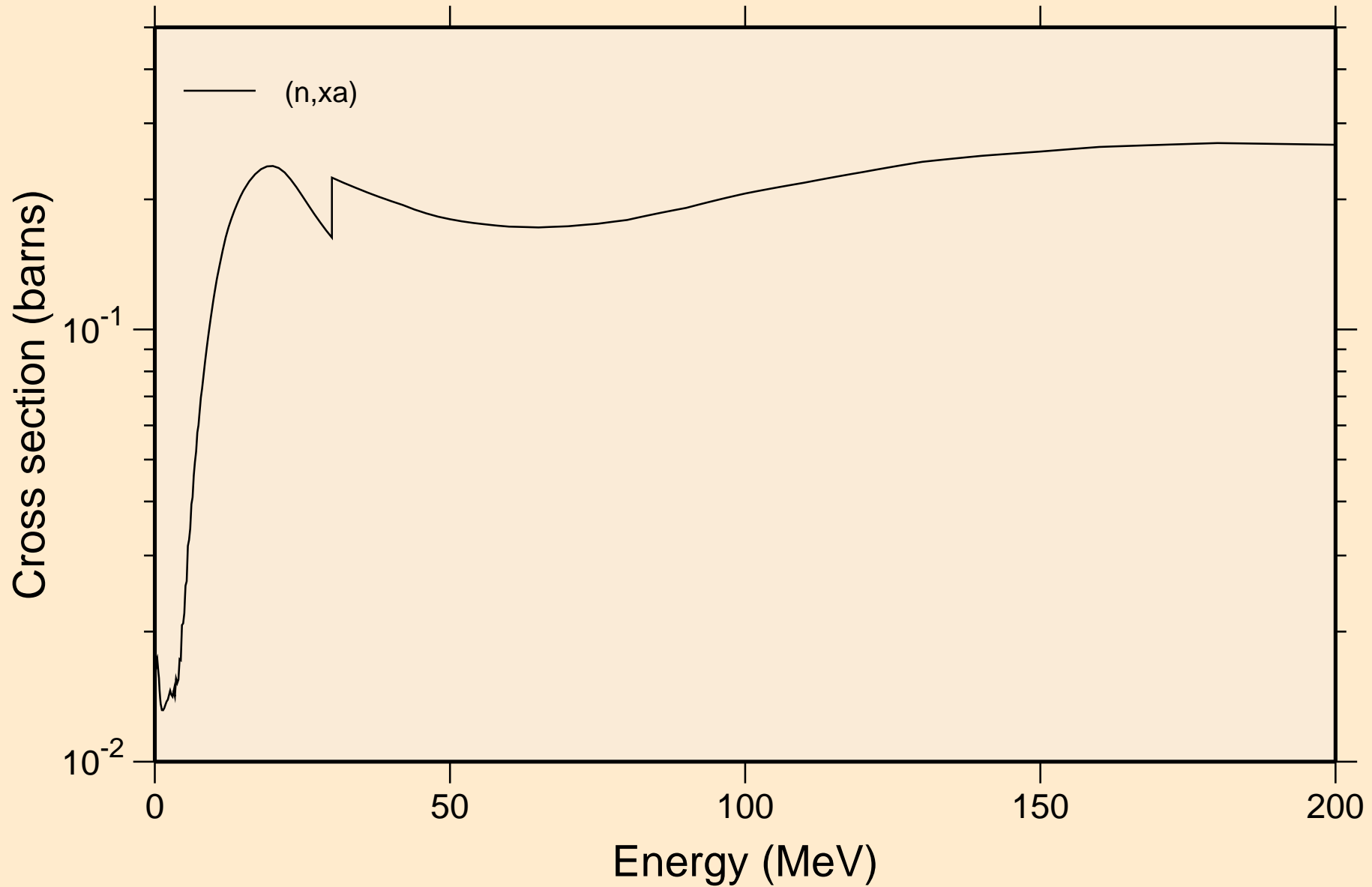
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage



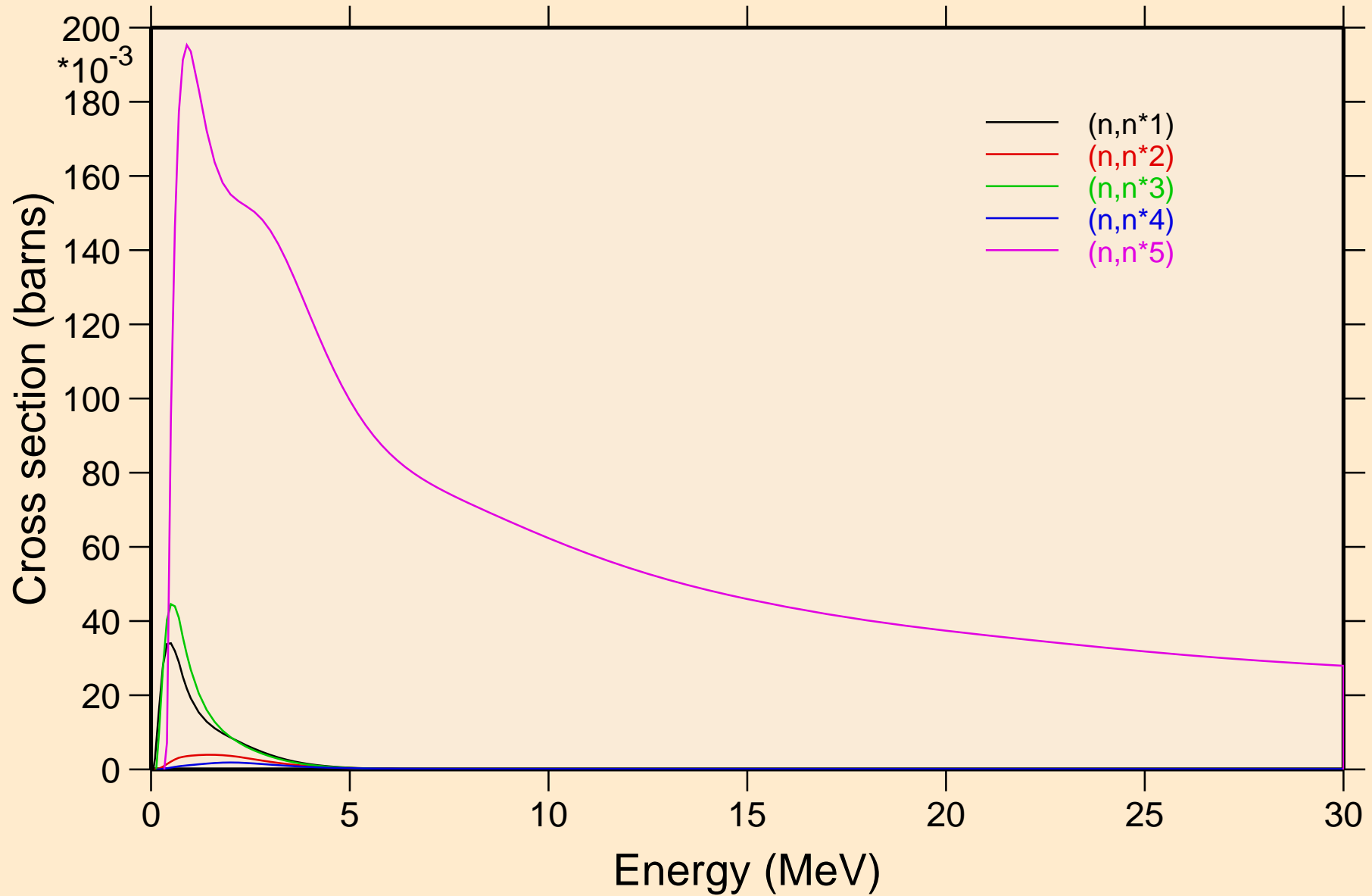
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Non-threshold reactions



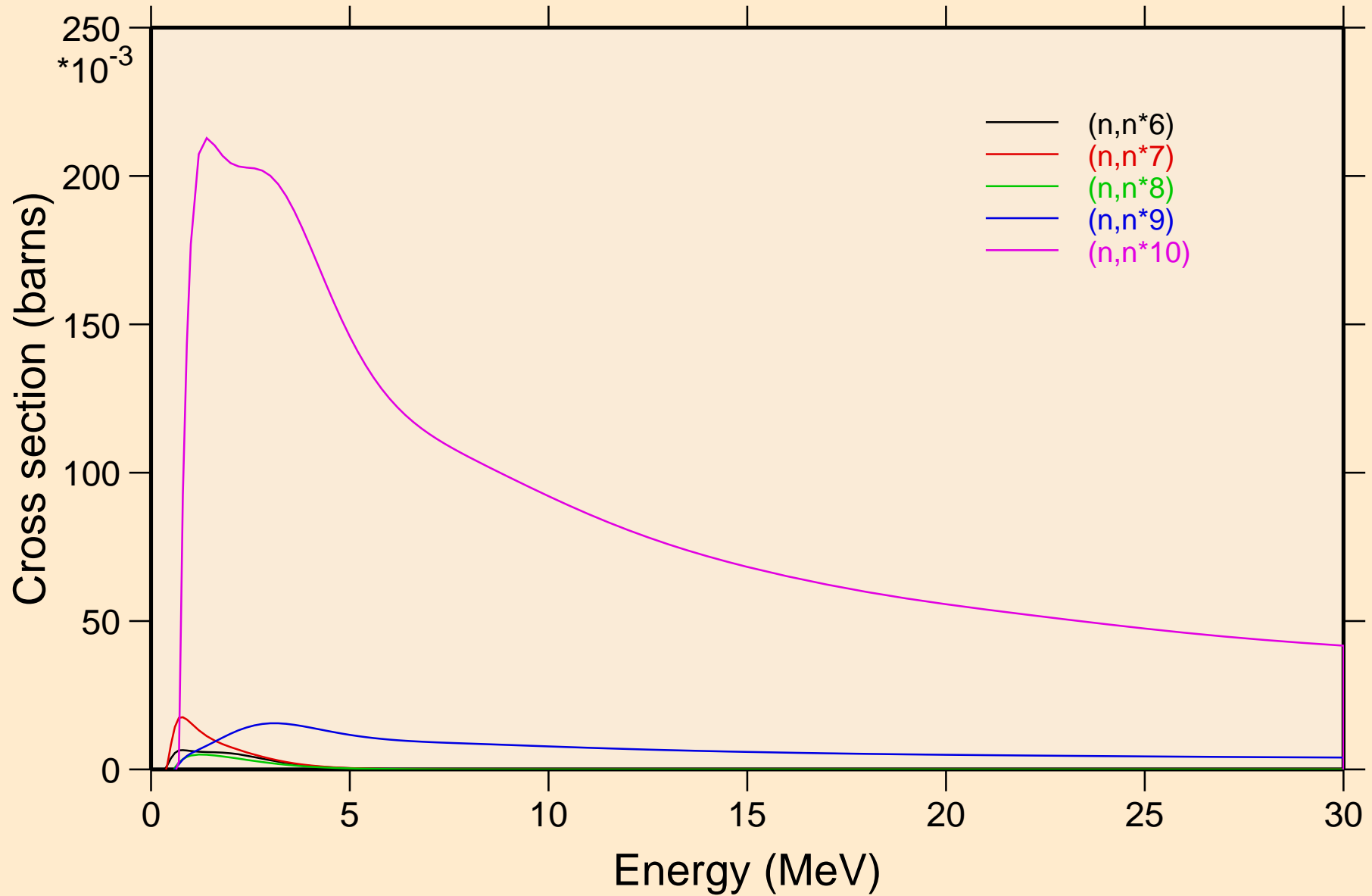
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

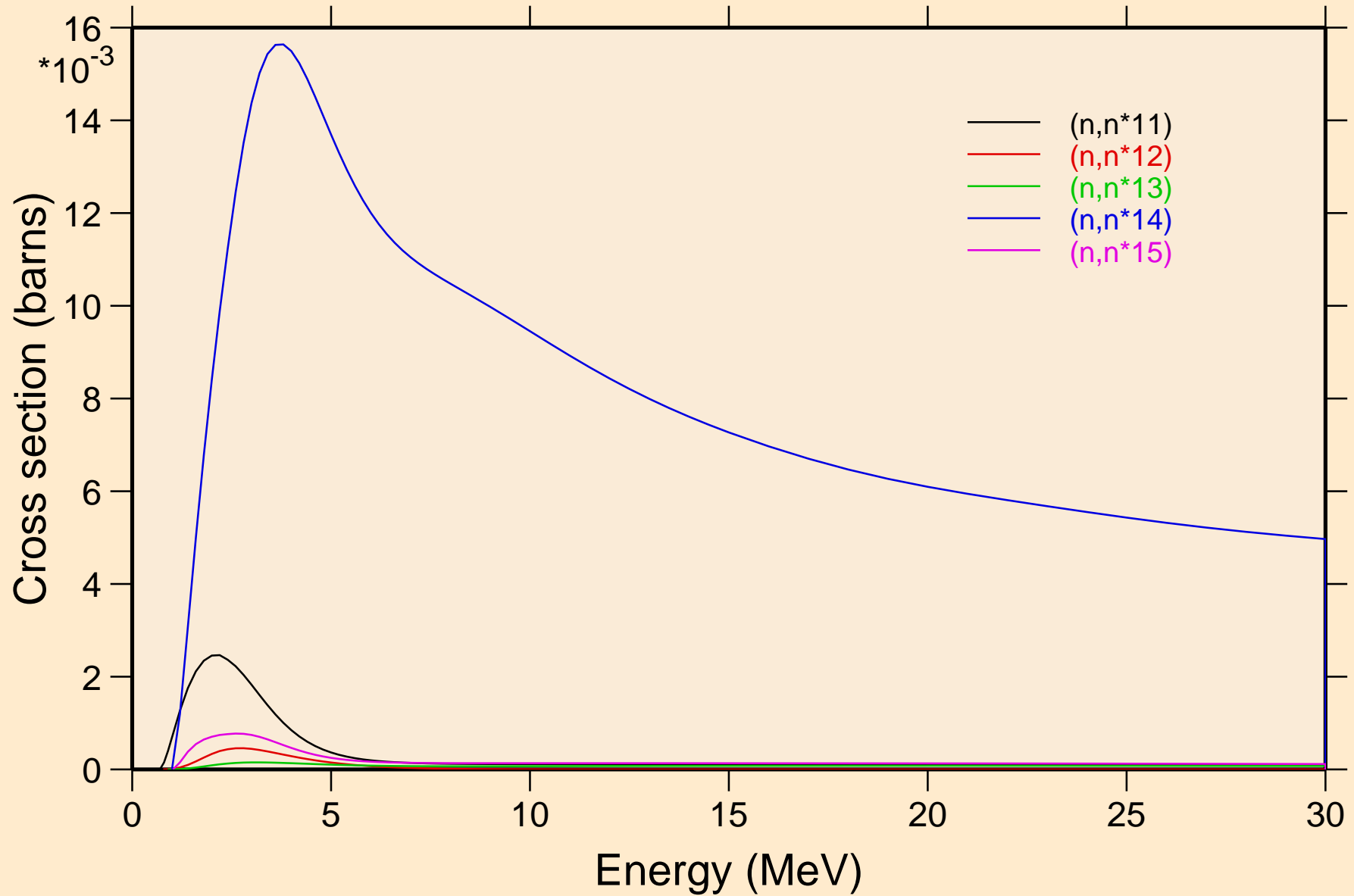


ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

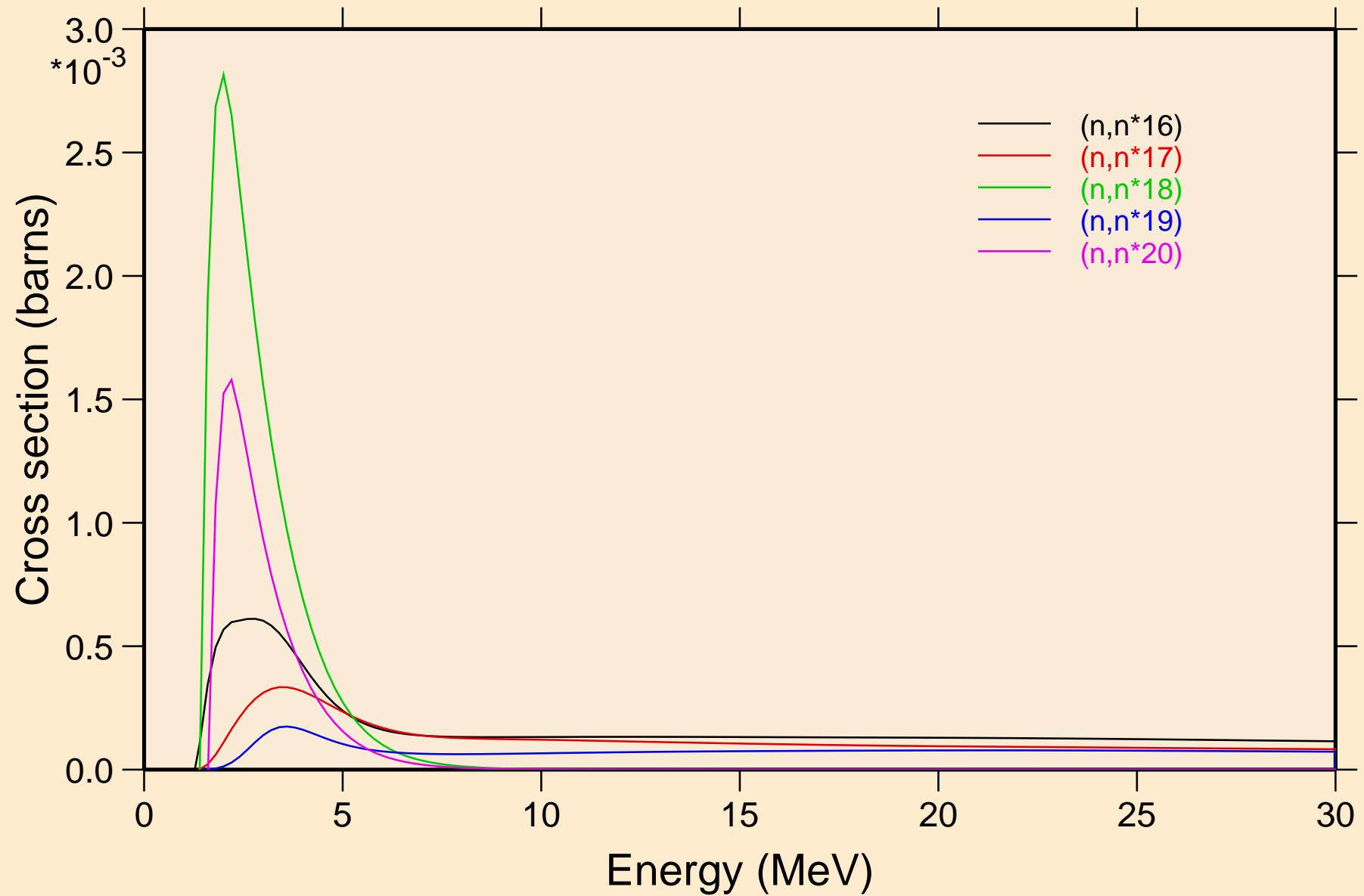




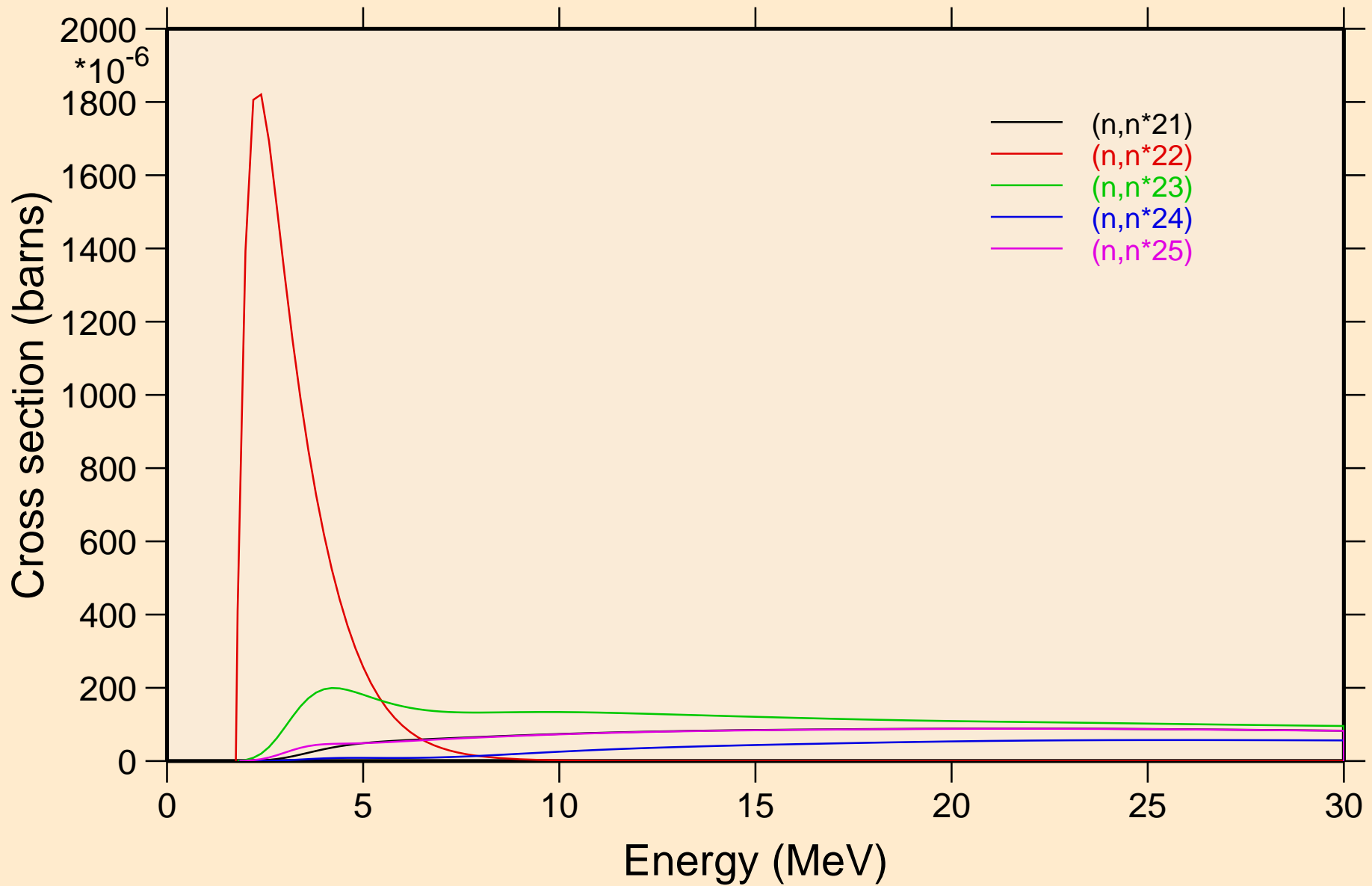
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
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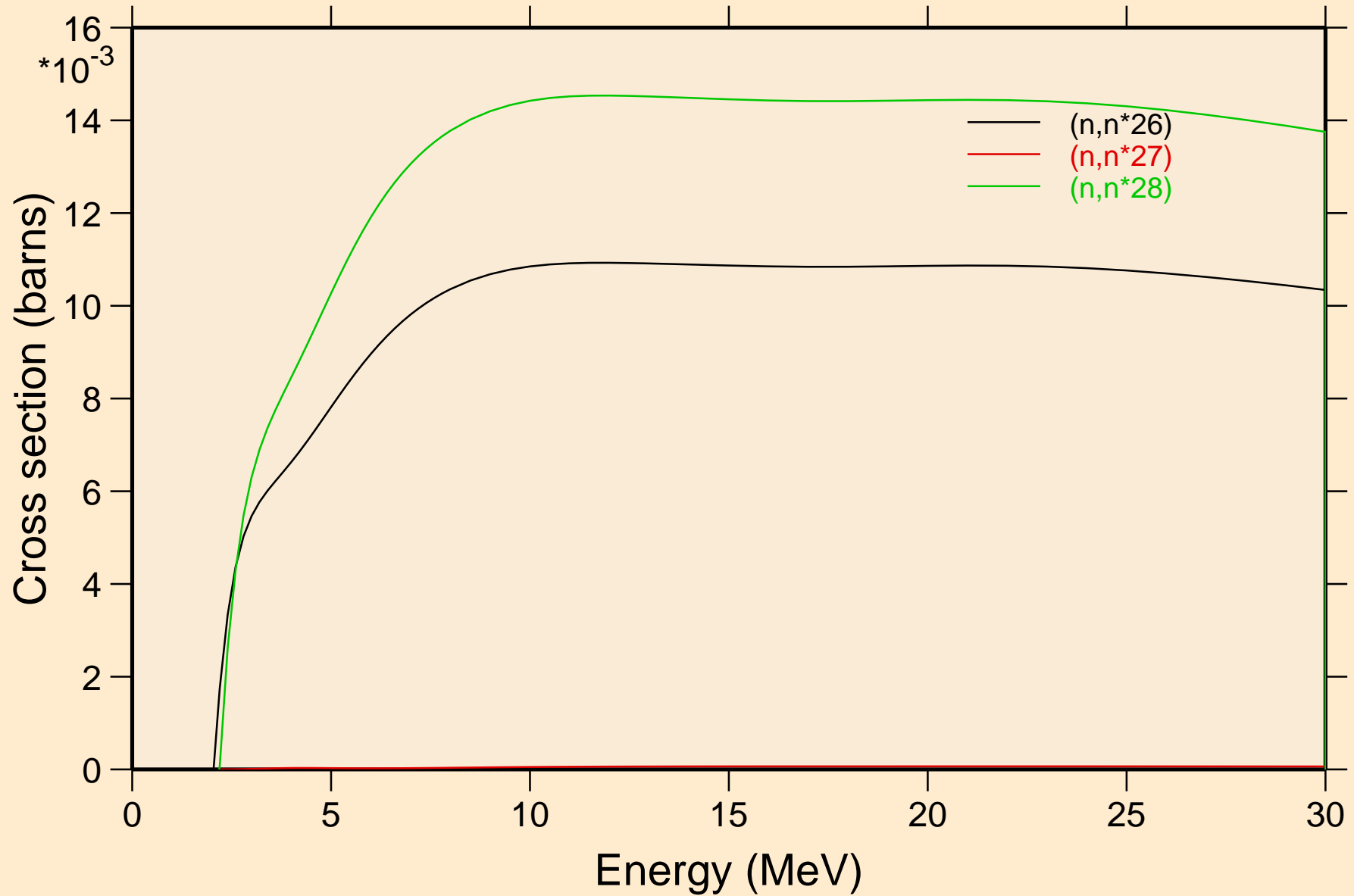
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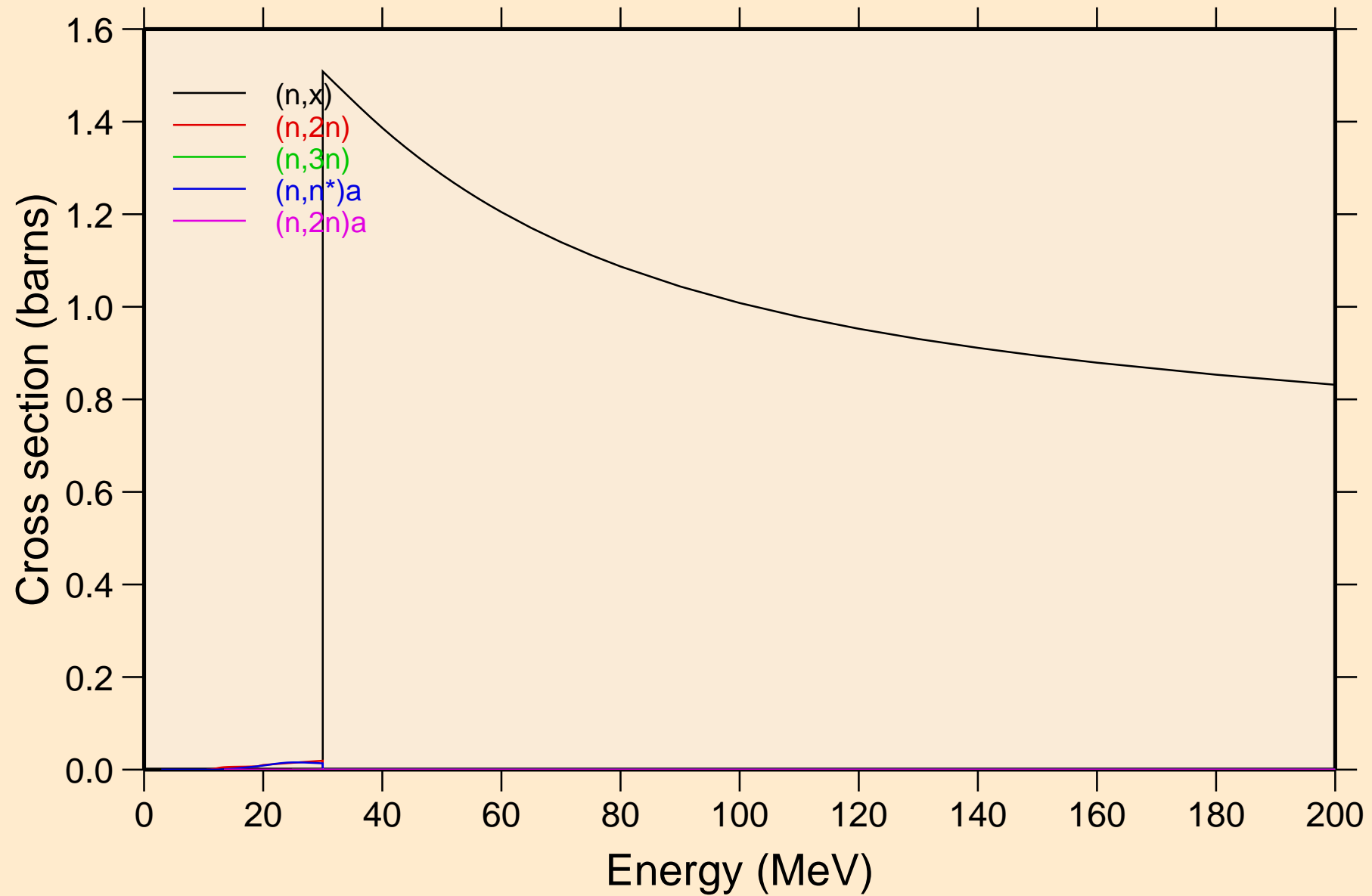
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Inelastic levels



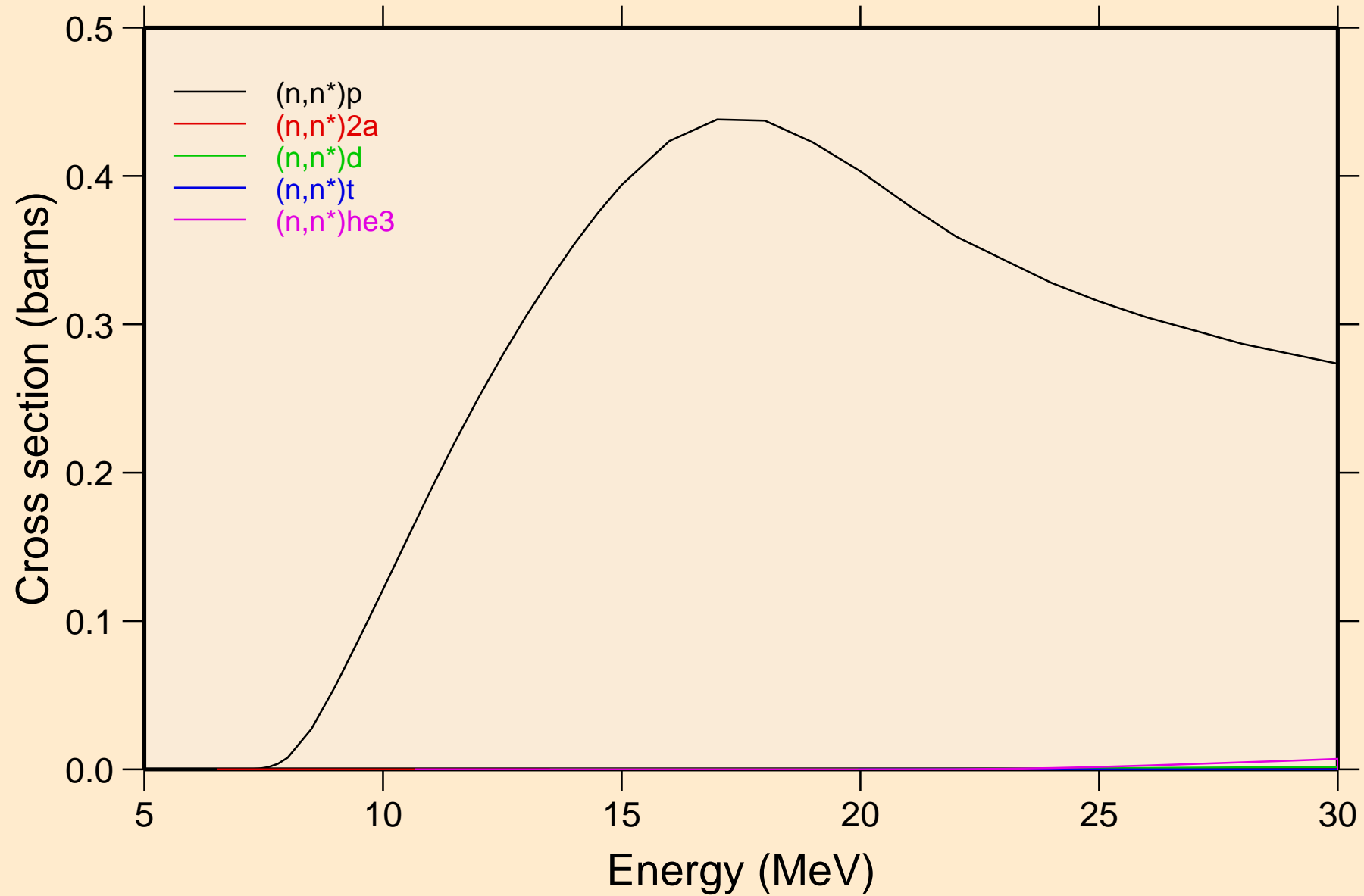
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Inelastic levels



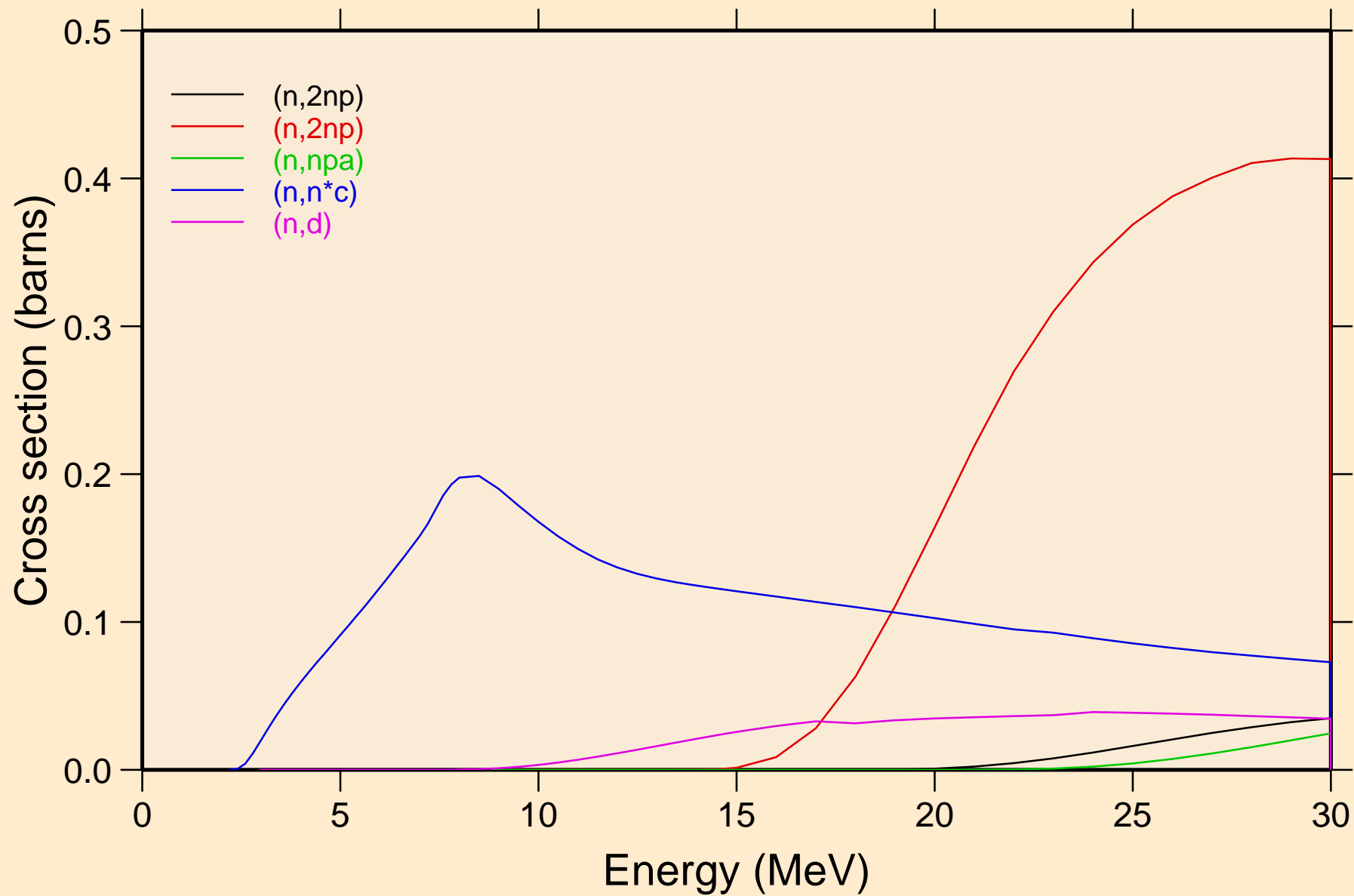
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Threshold reactions



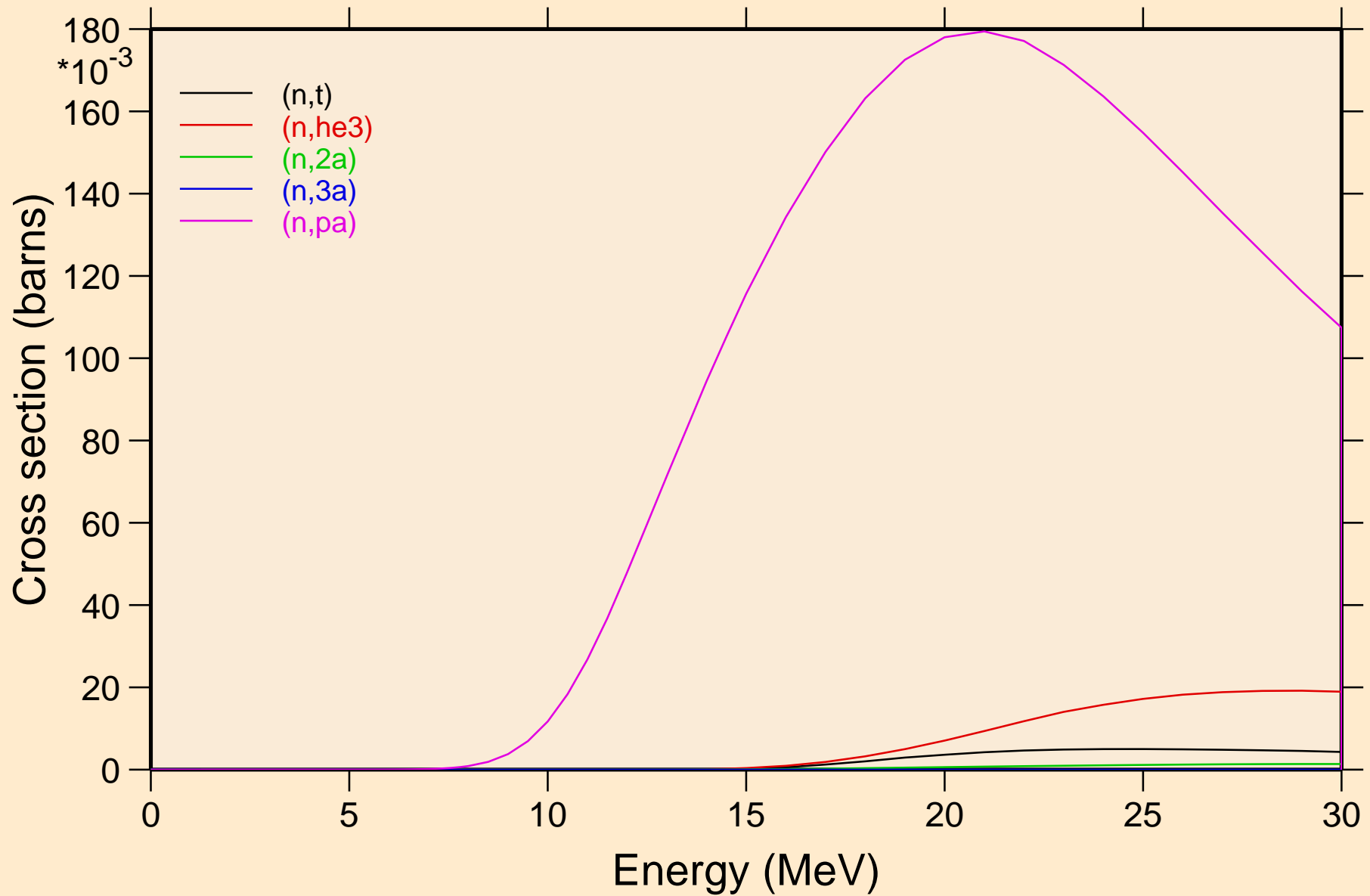
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

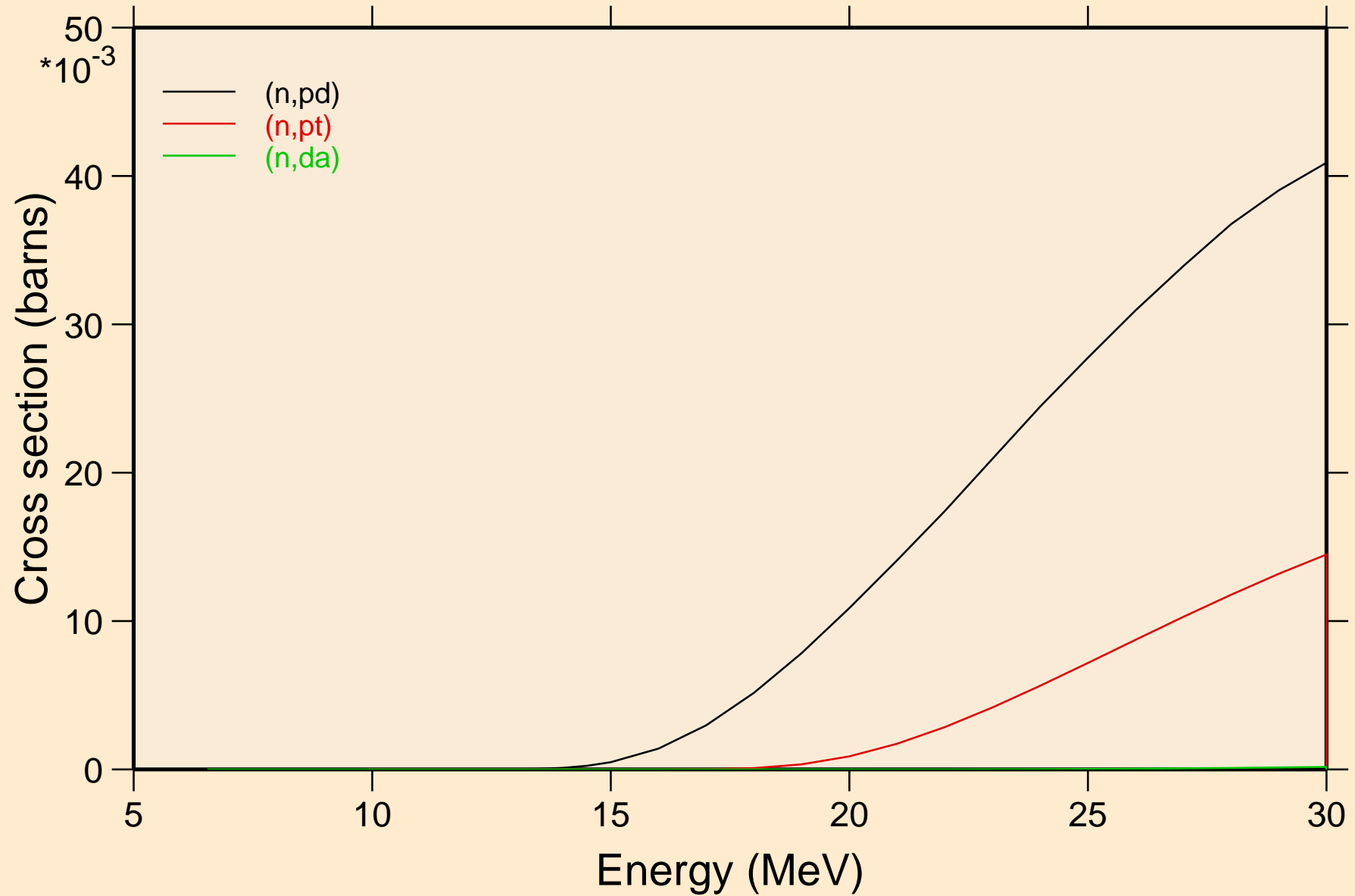


ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

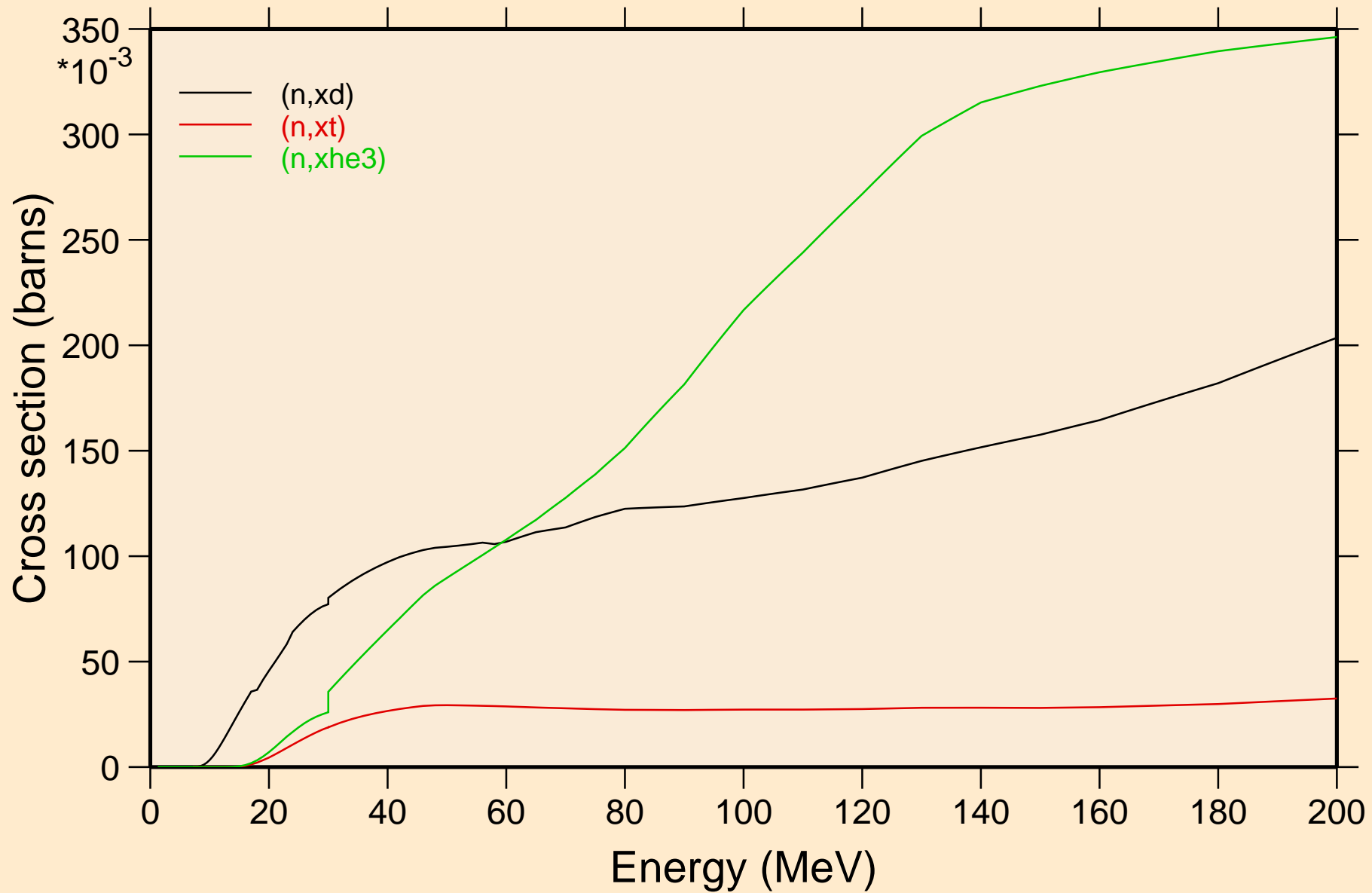




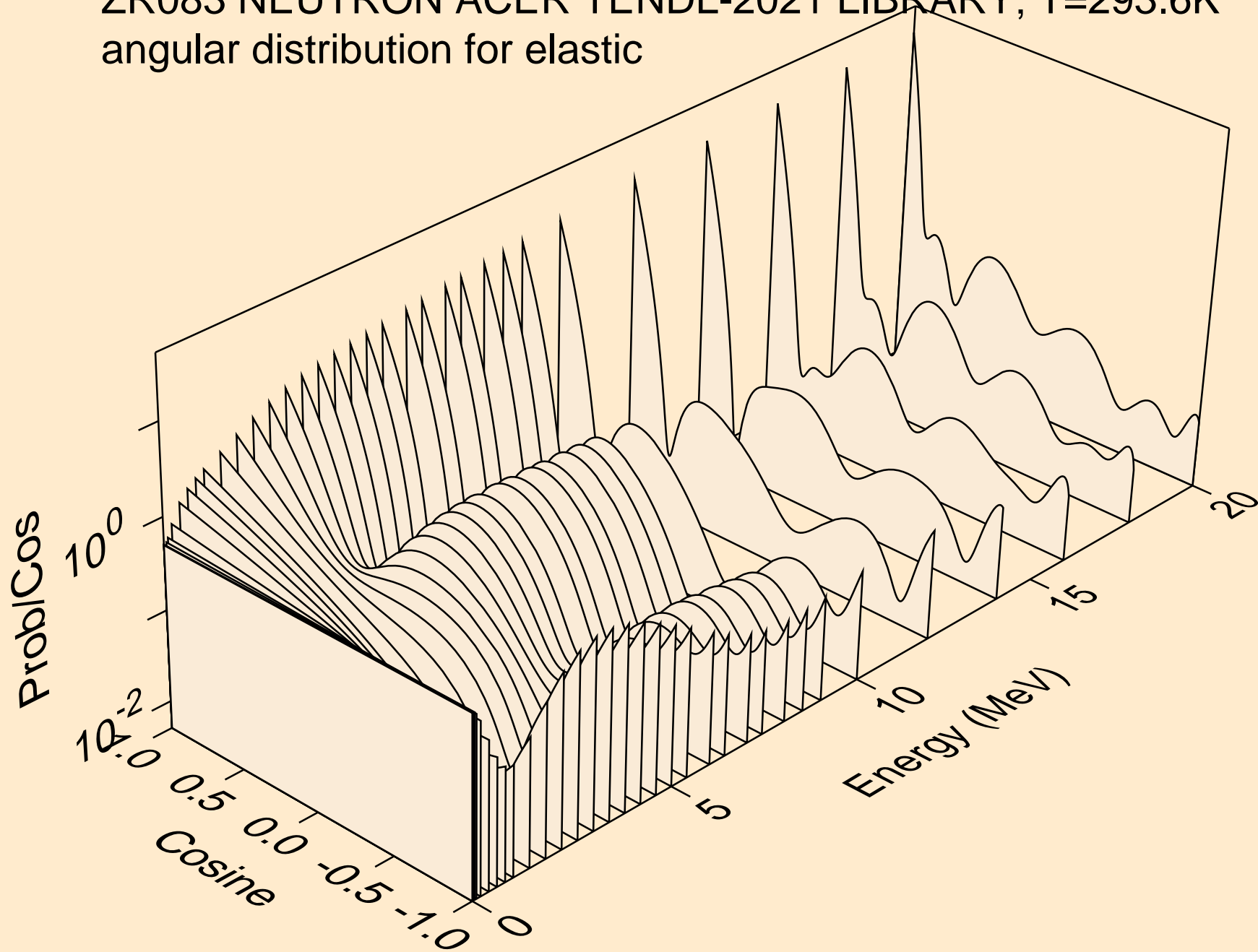
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Threshold reactions



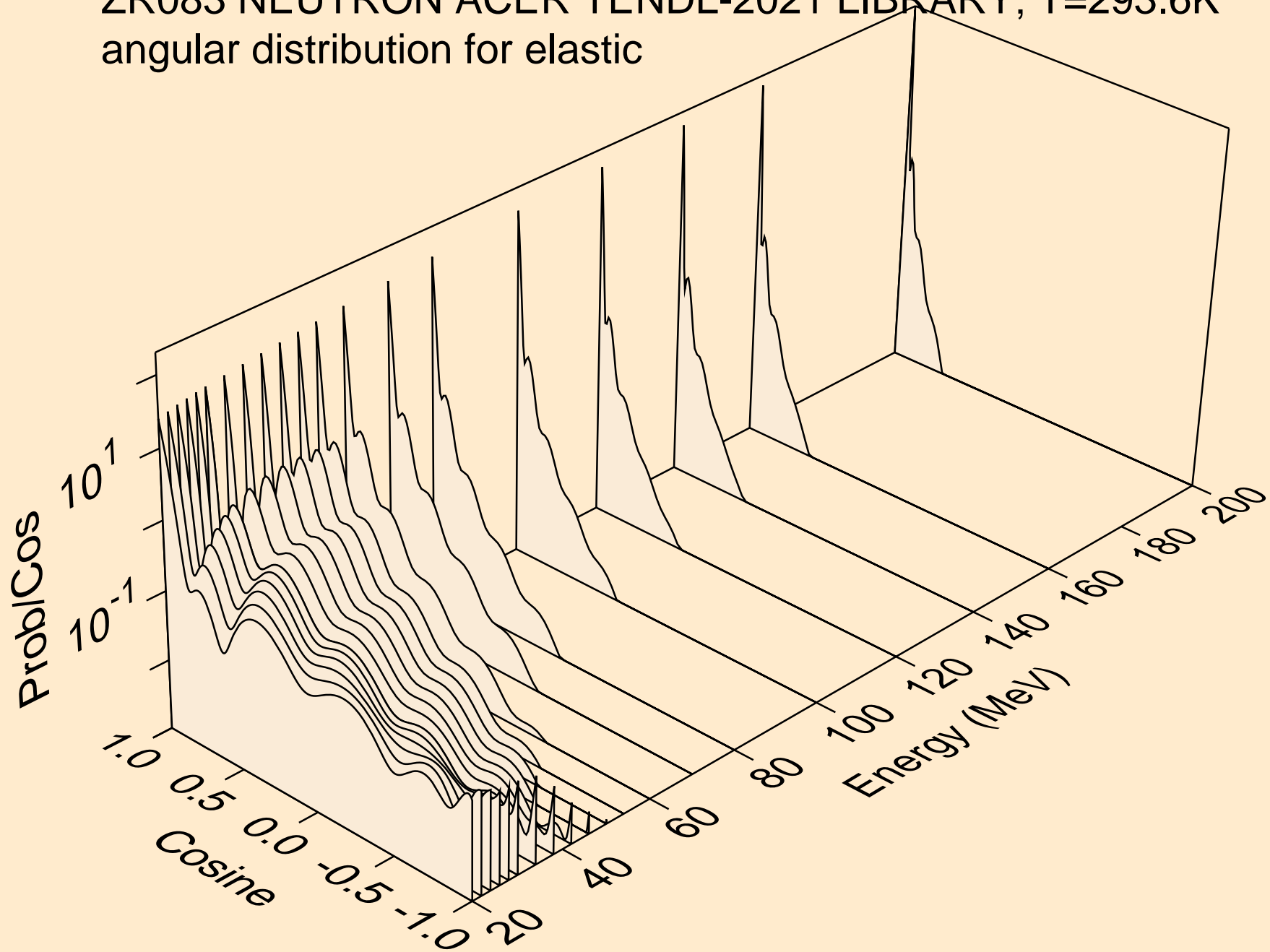
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Threshold reactions



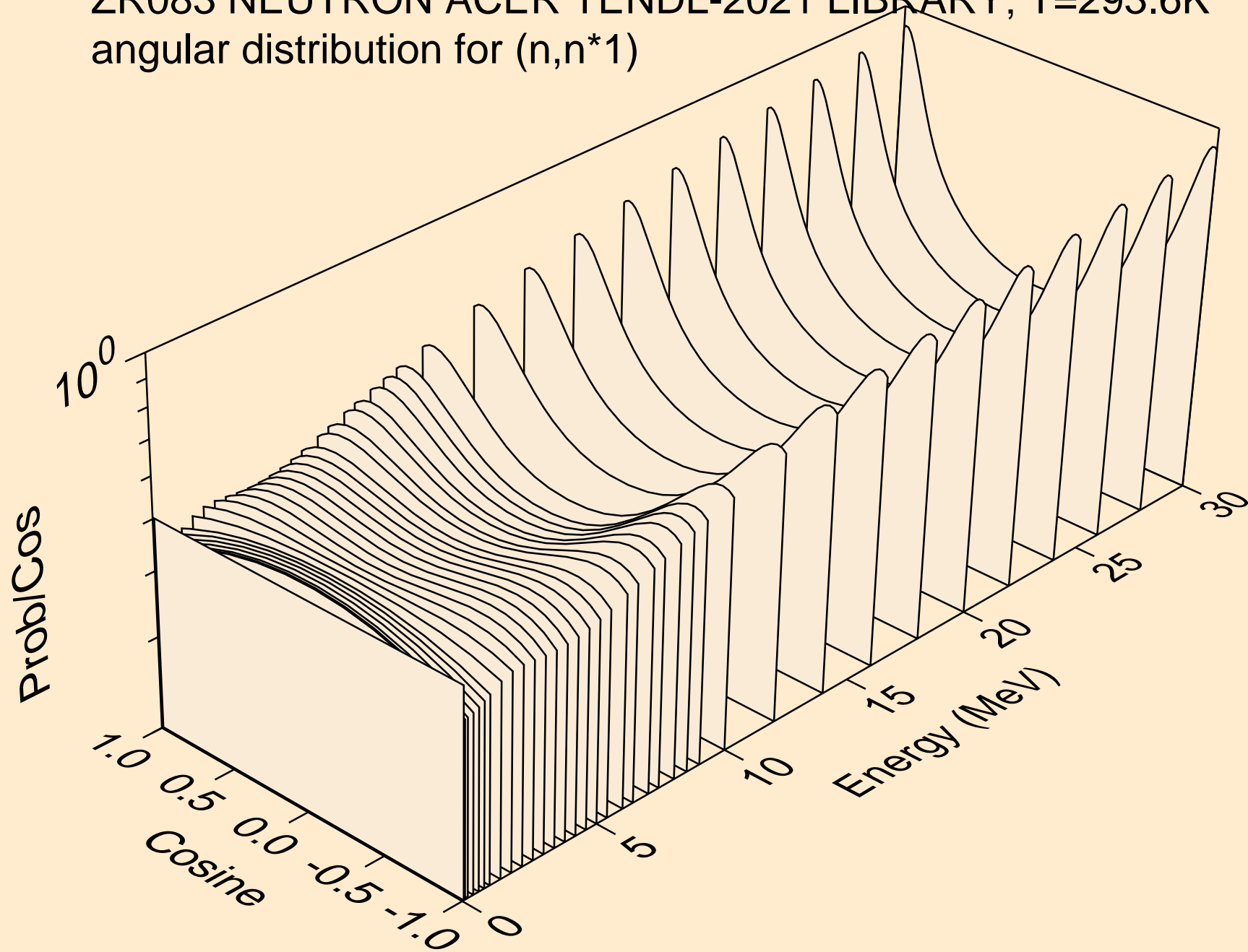
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angular distribution for elastic



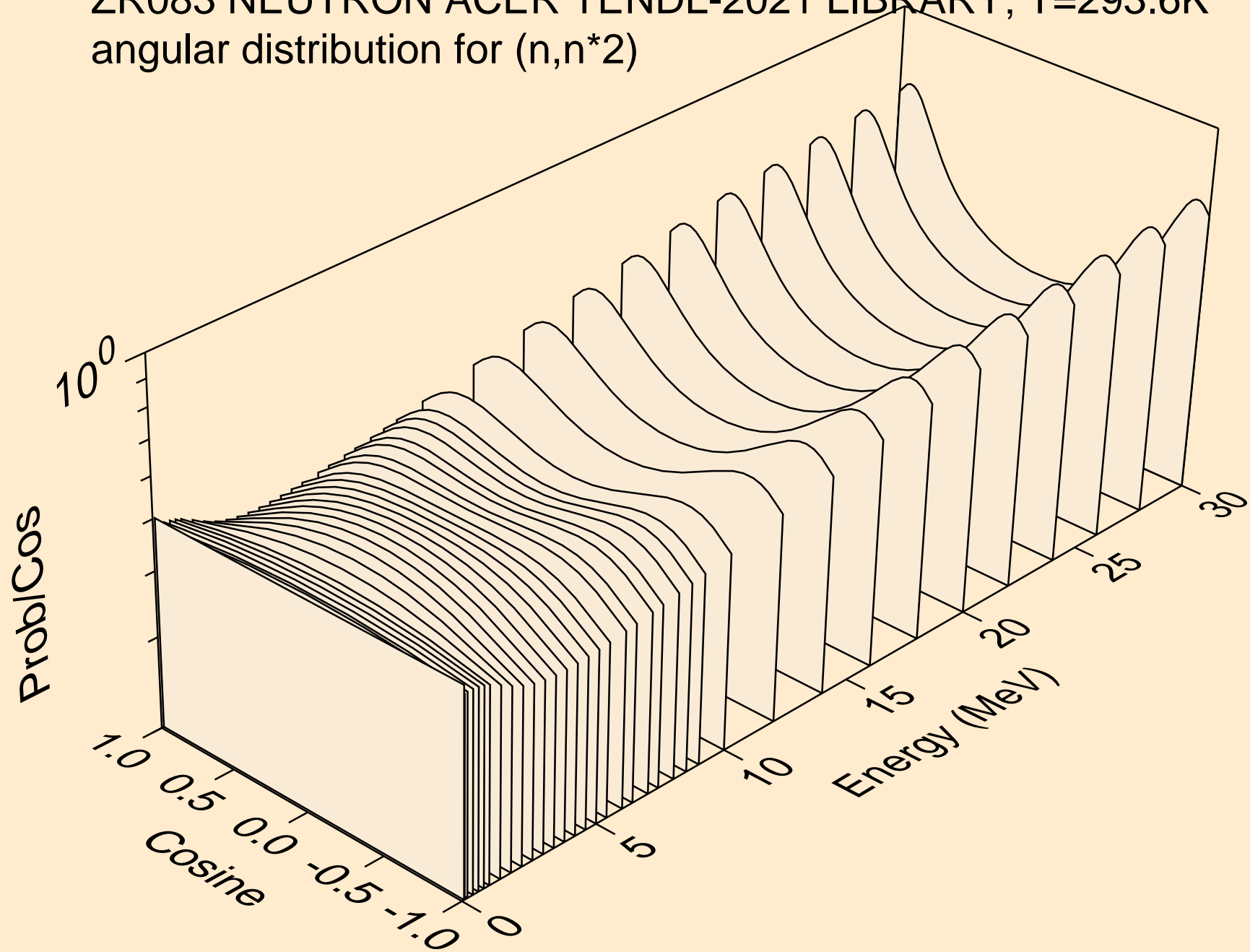
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angular distribution for elastic



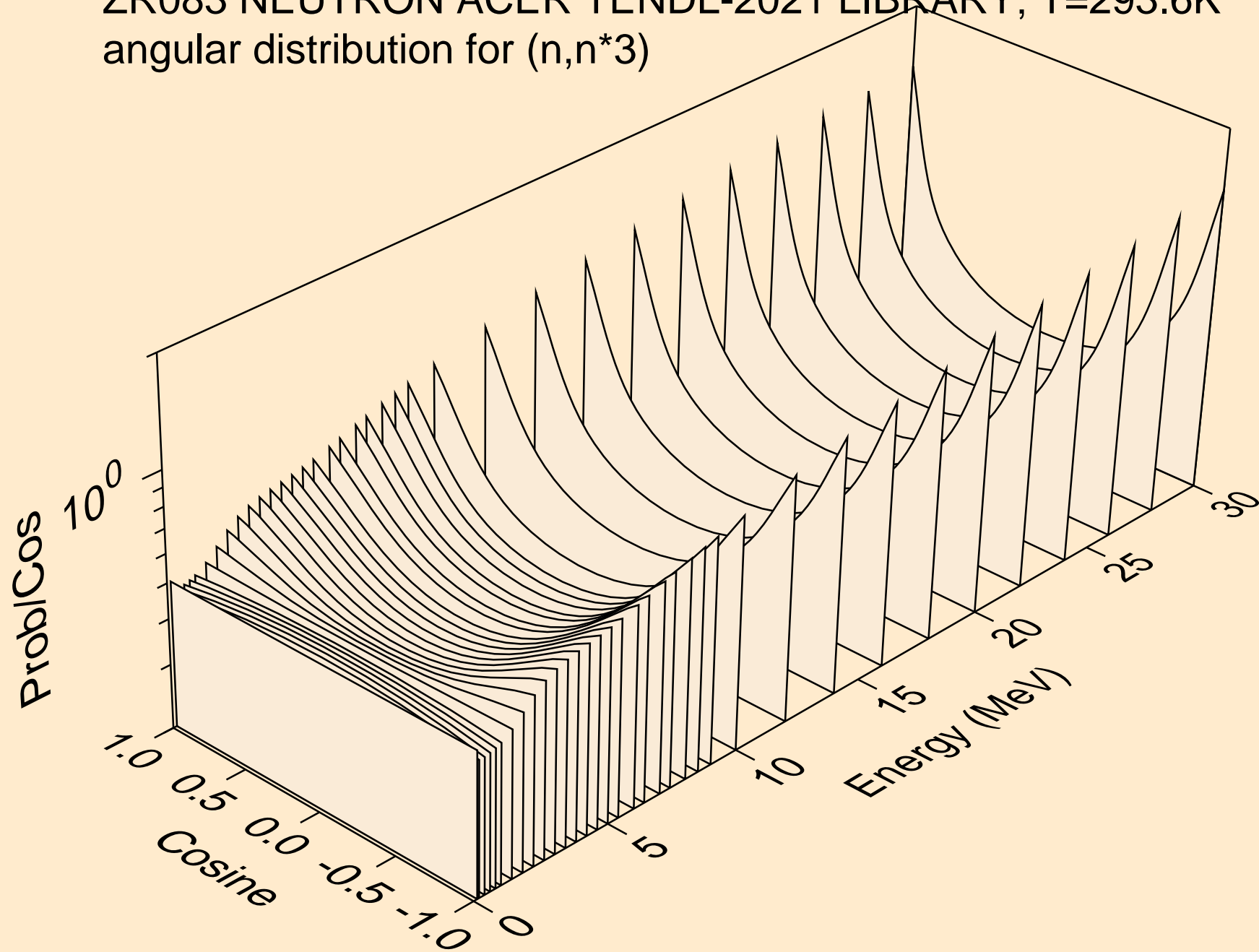
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angular distribution for (n,n\*1)



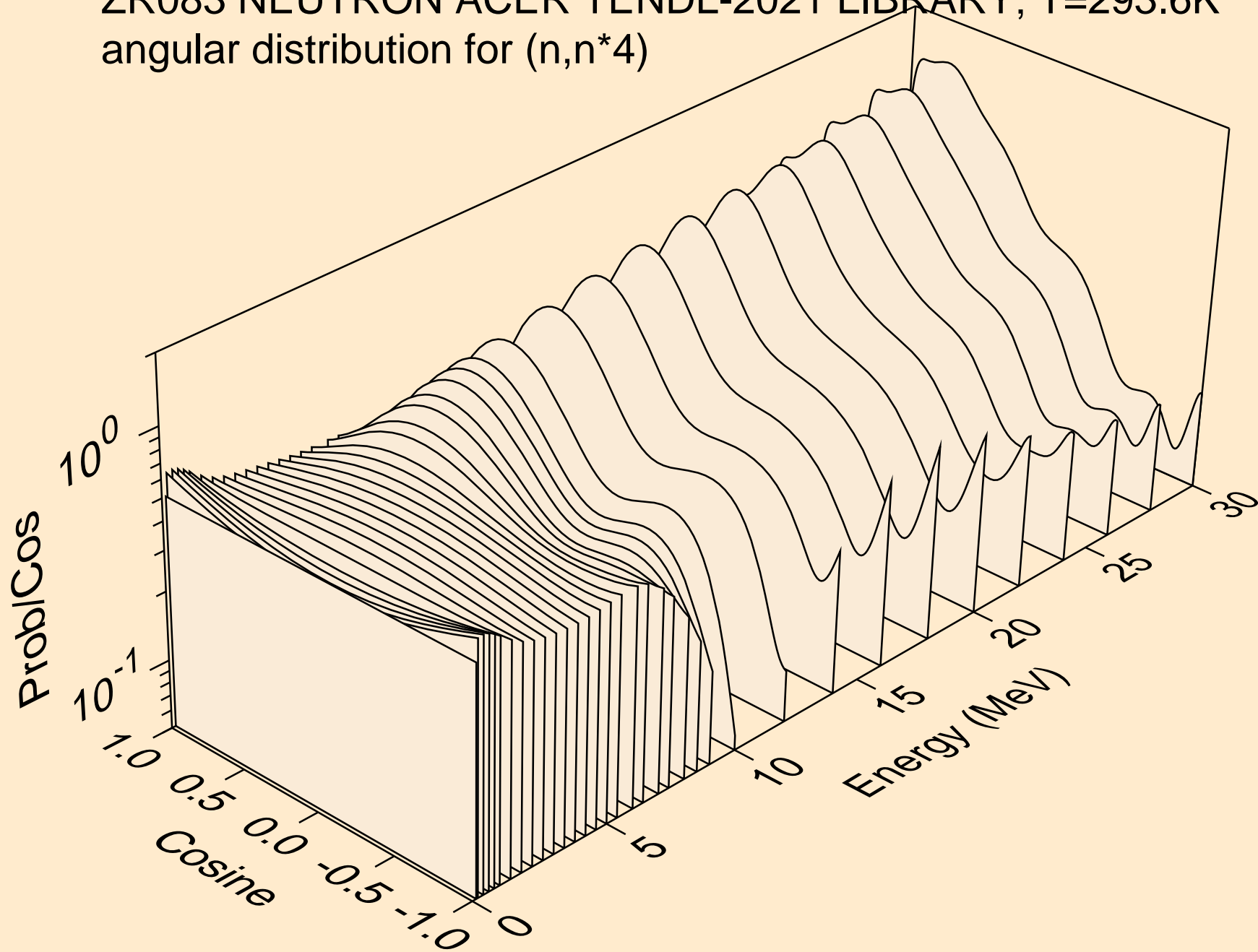
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)

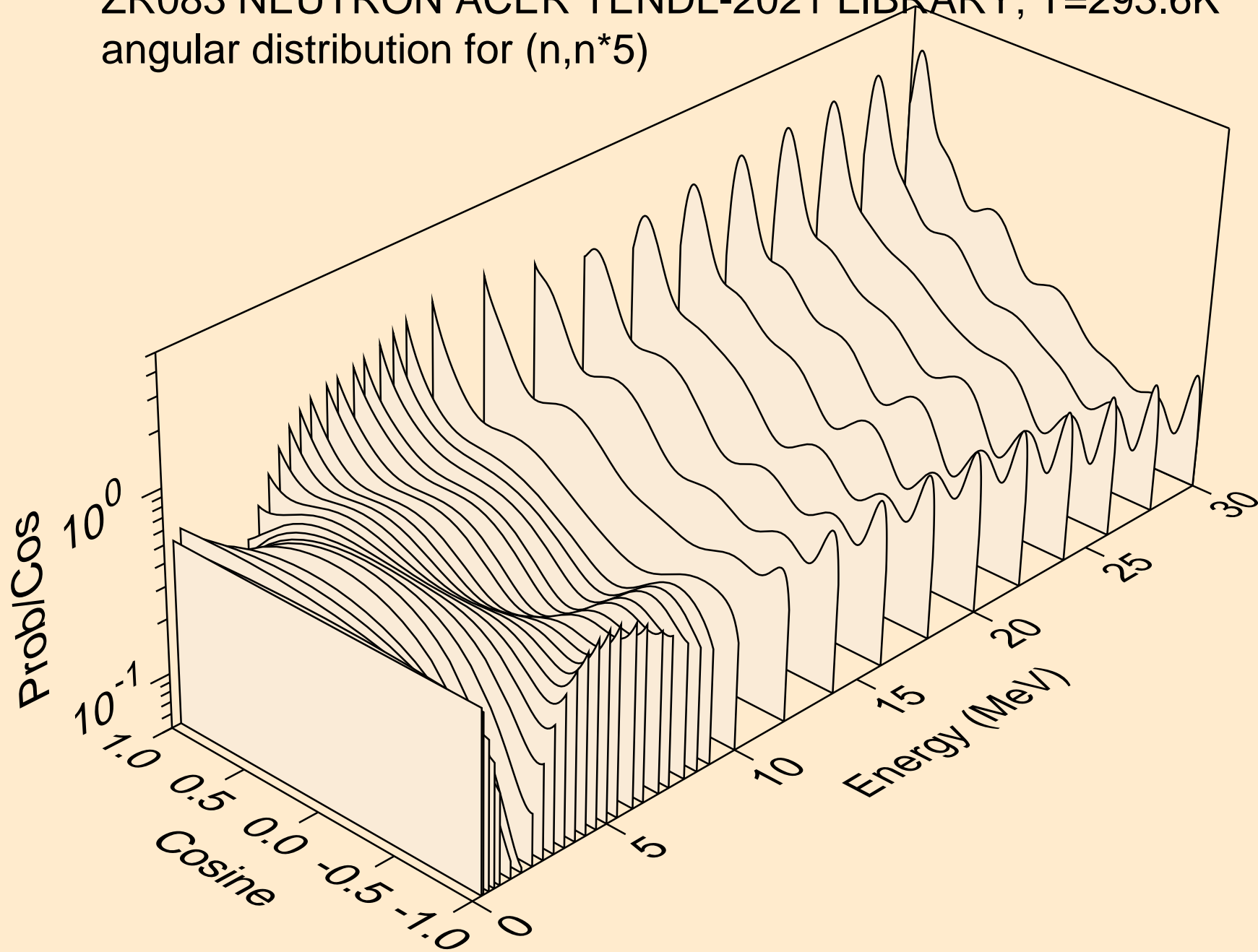


ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)

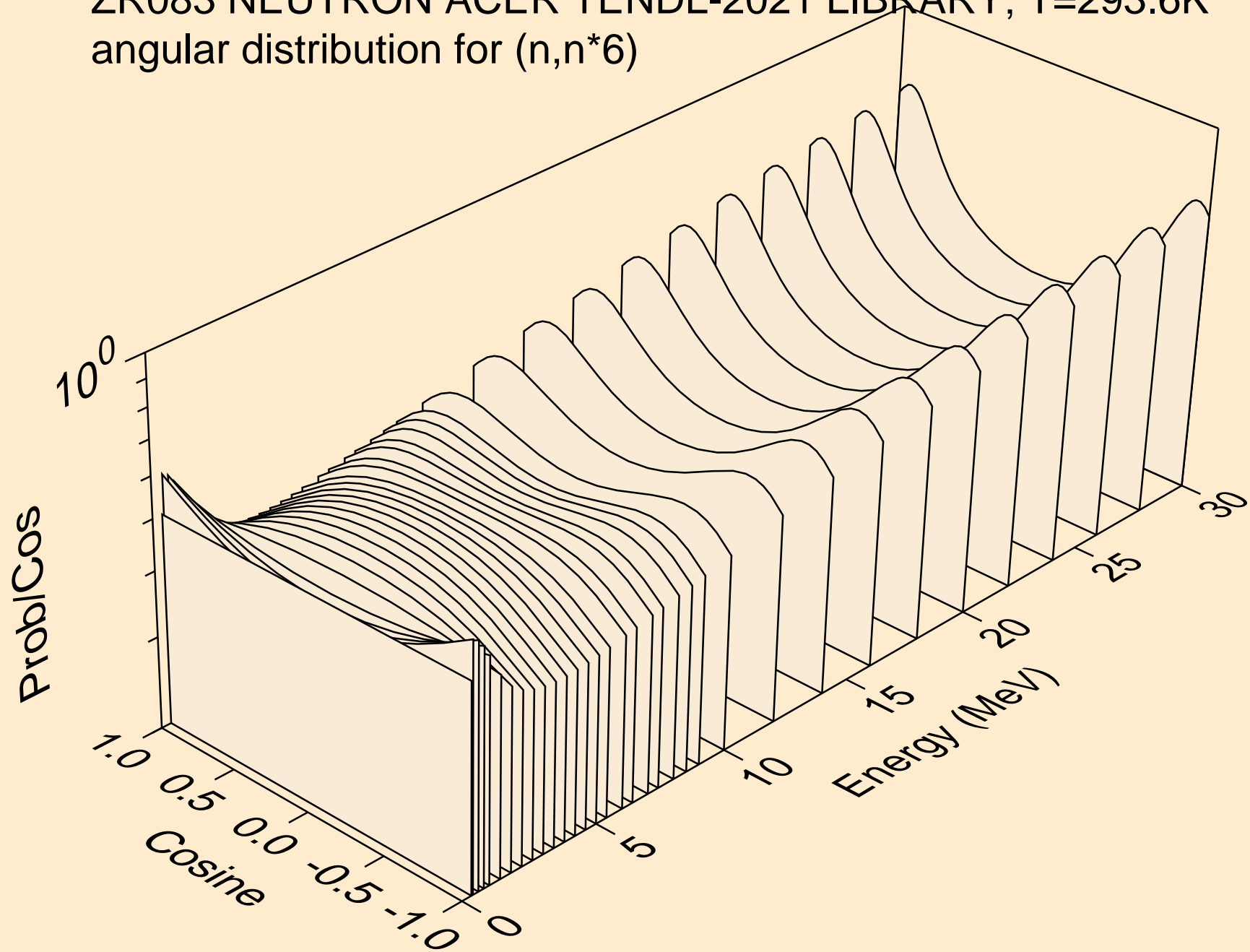




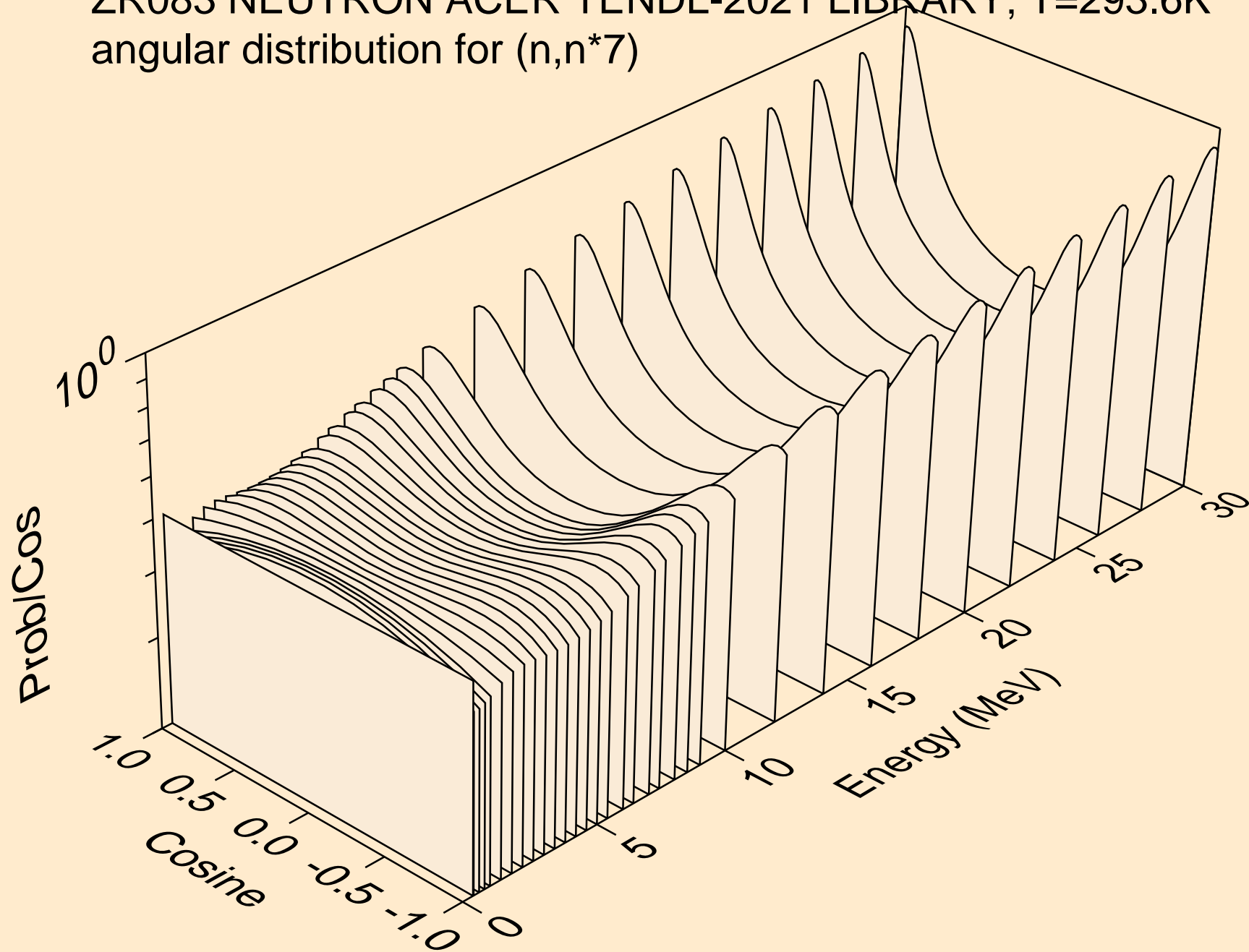
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angular distribution for (n,n\*5)



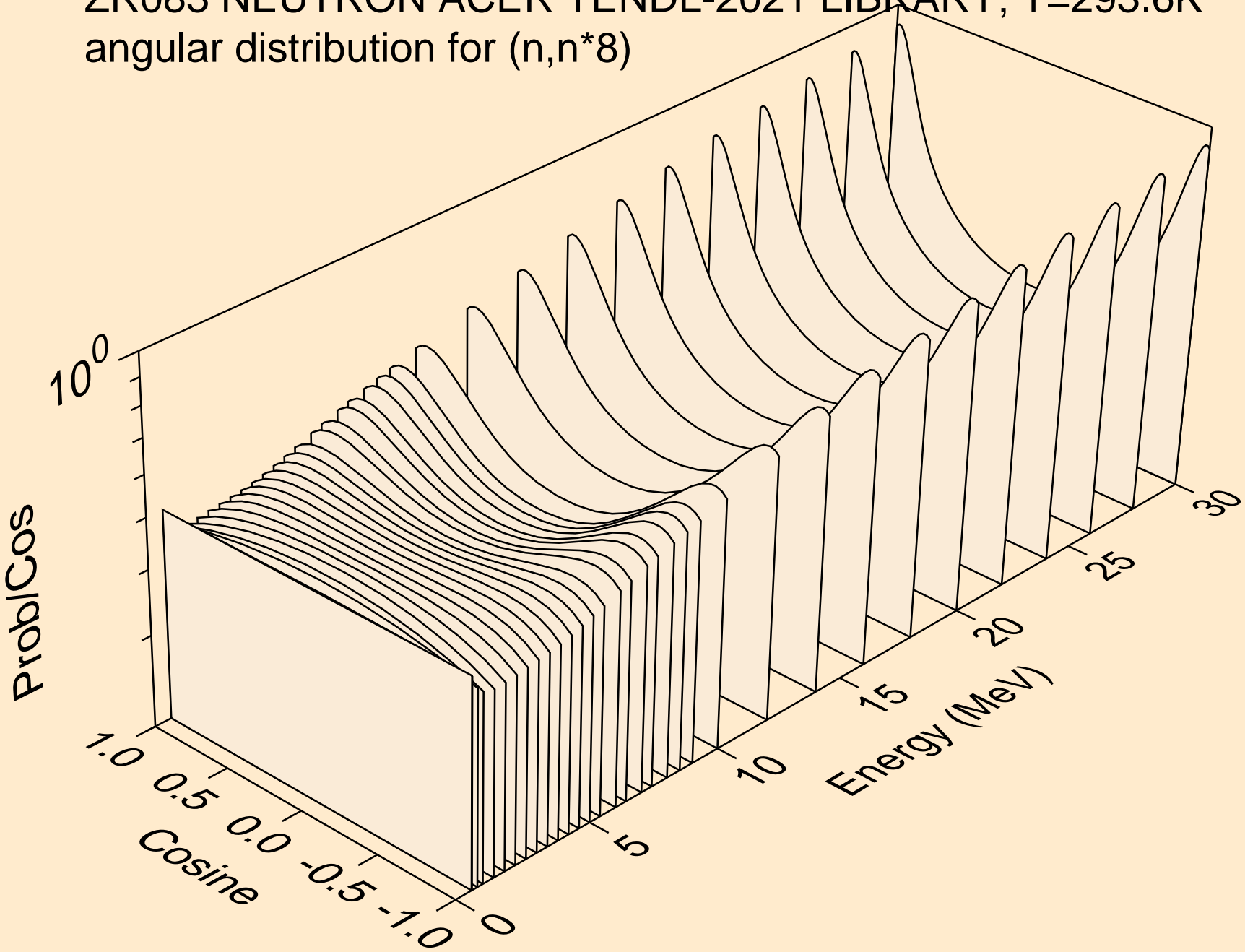
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angular distribution for (n,n\*6)



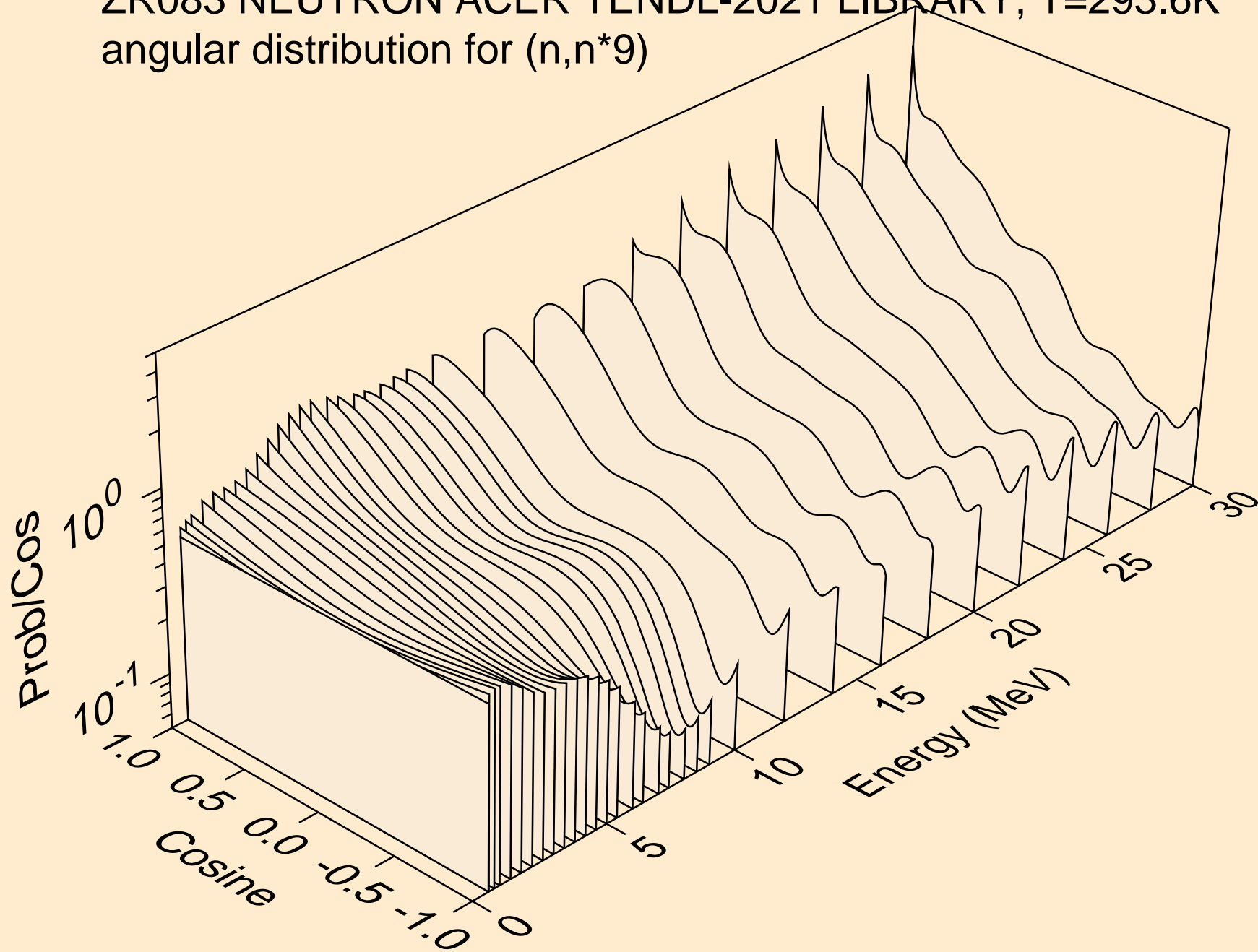
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angular distribution for (n,n\*7)



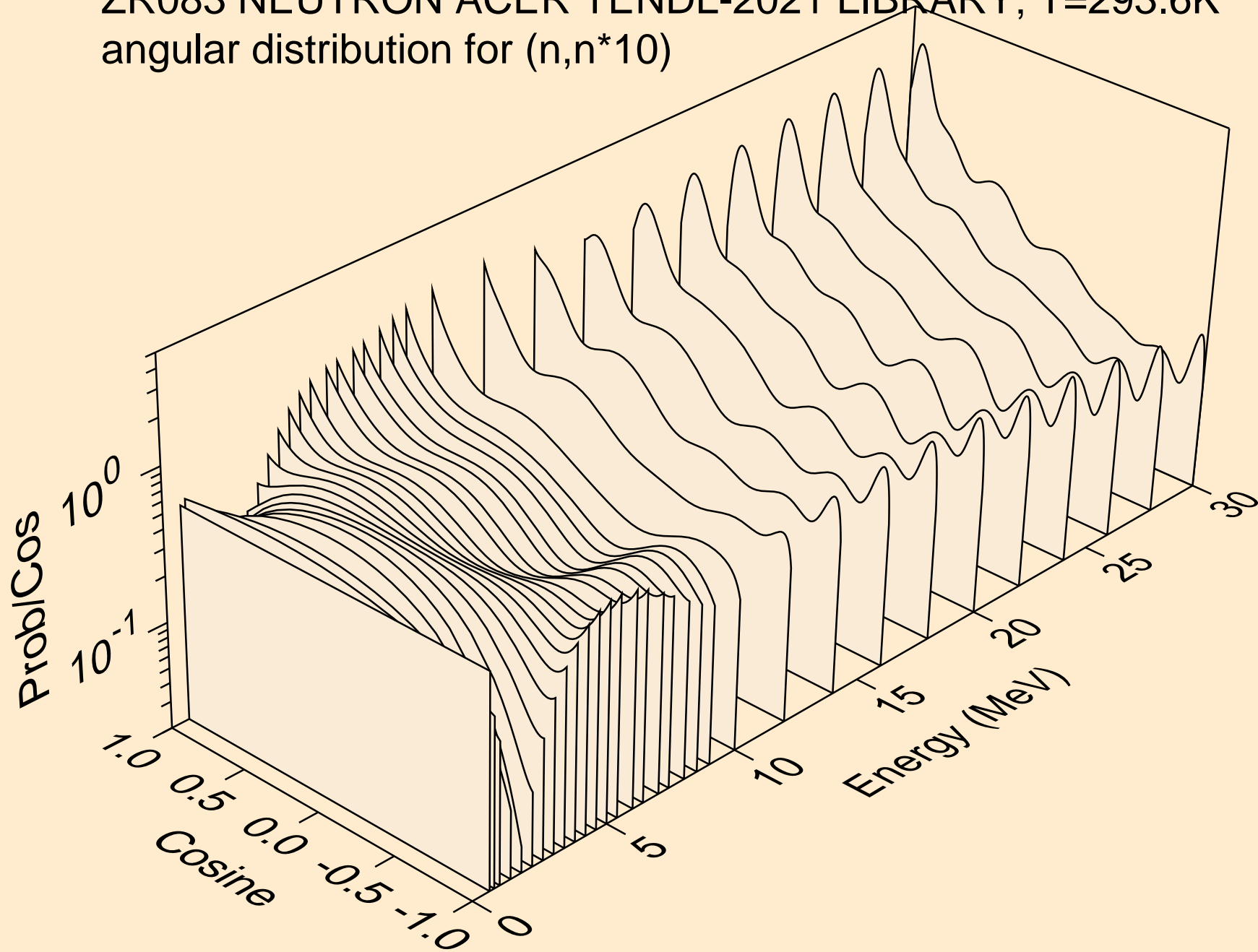
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angular distribution for (n,n\*8)



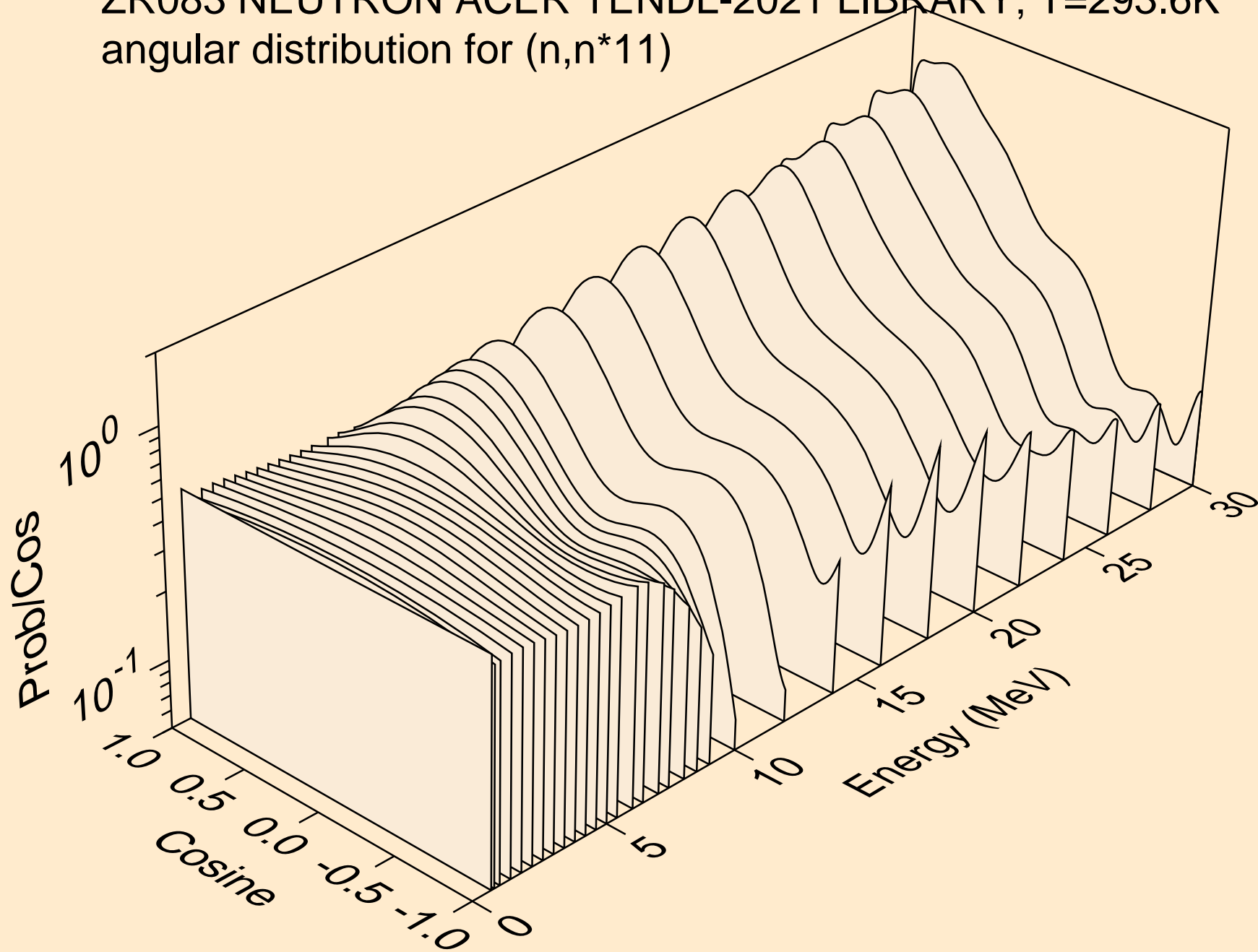
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angular distribution for (n,n\*9)



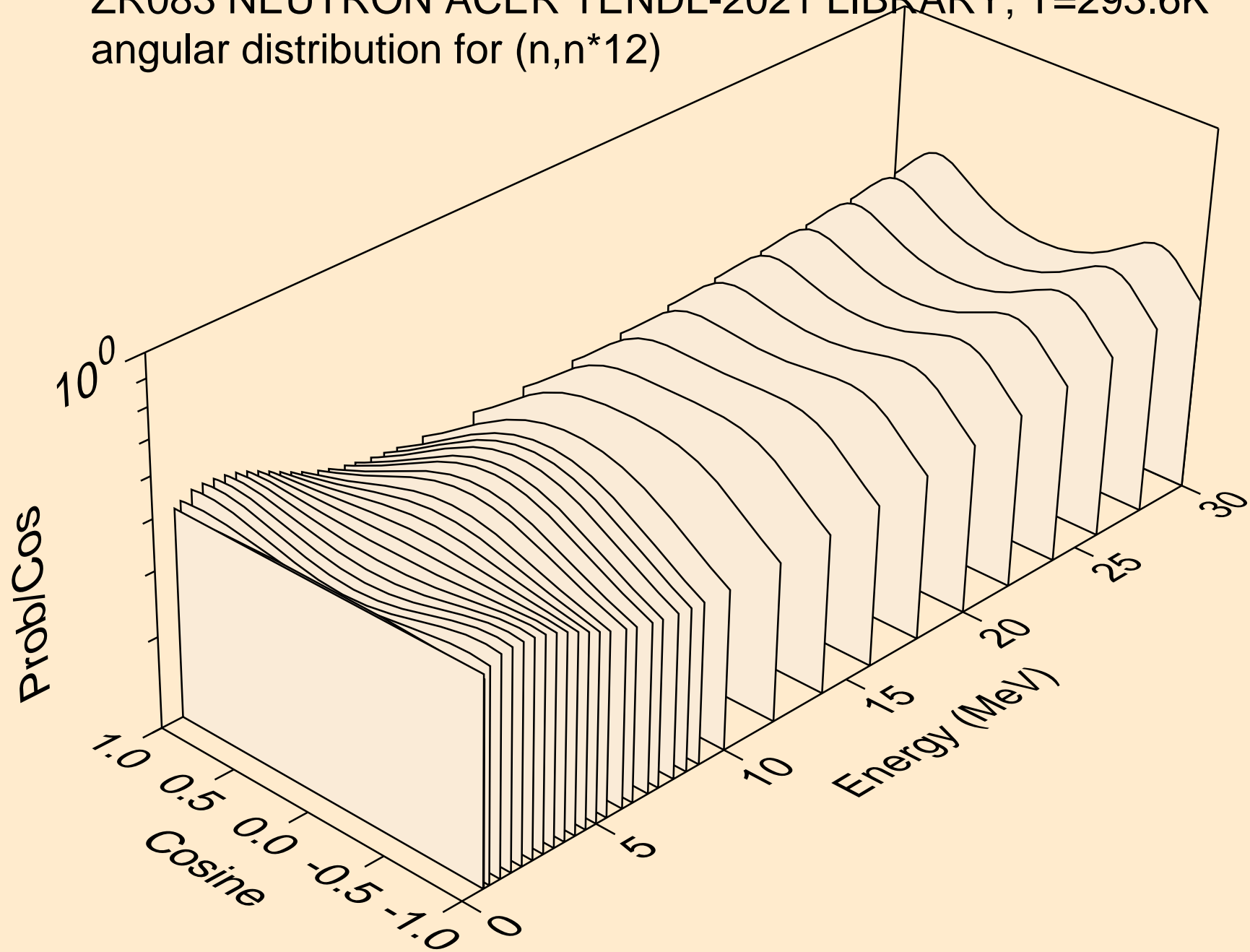
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*10)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*11)

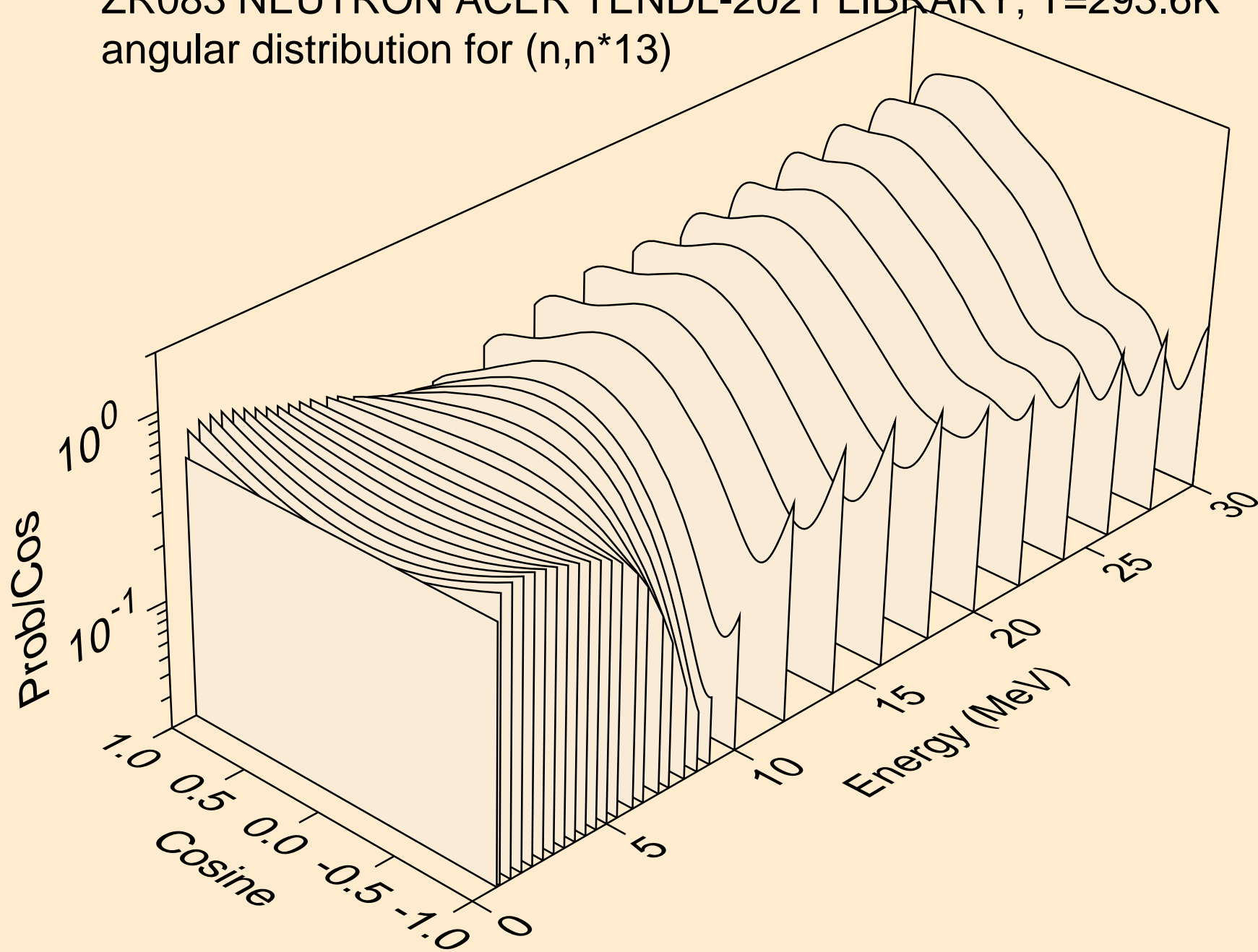


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angular distribution for (n,n\*12)

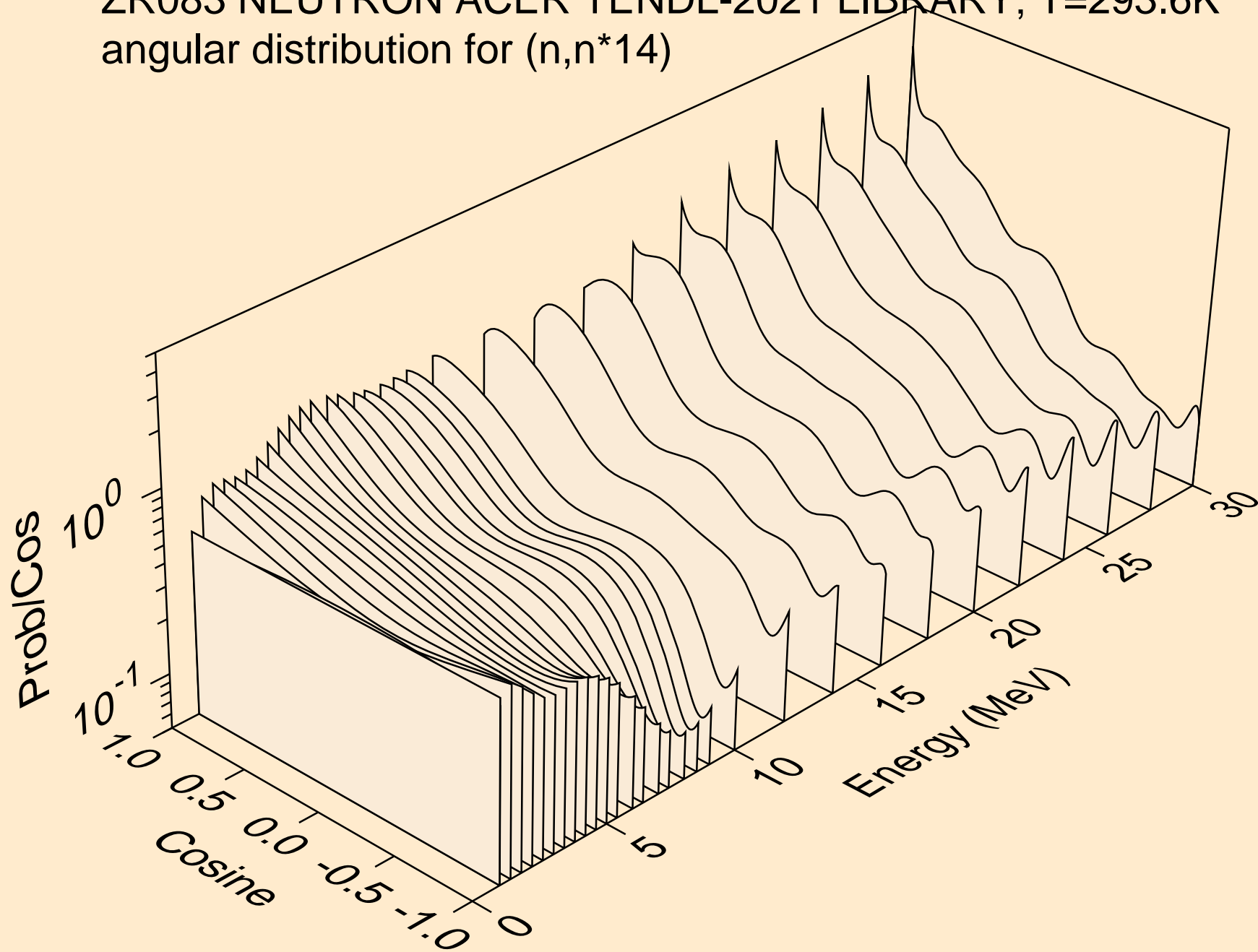




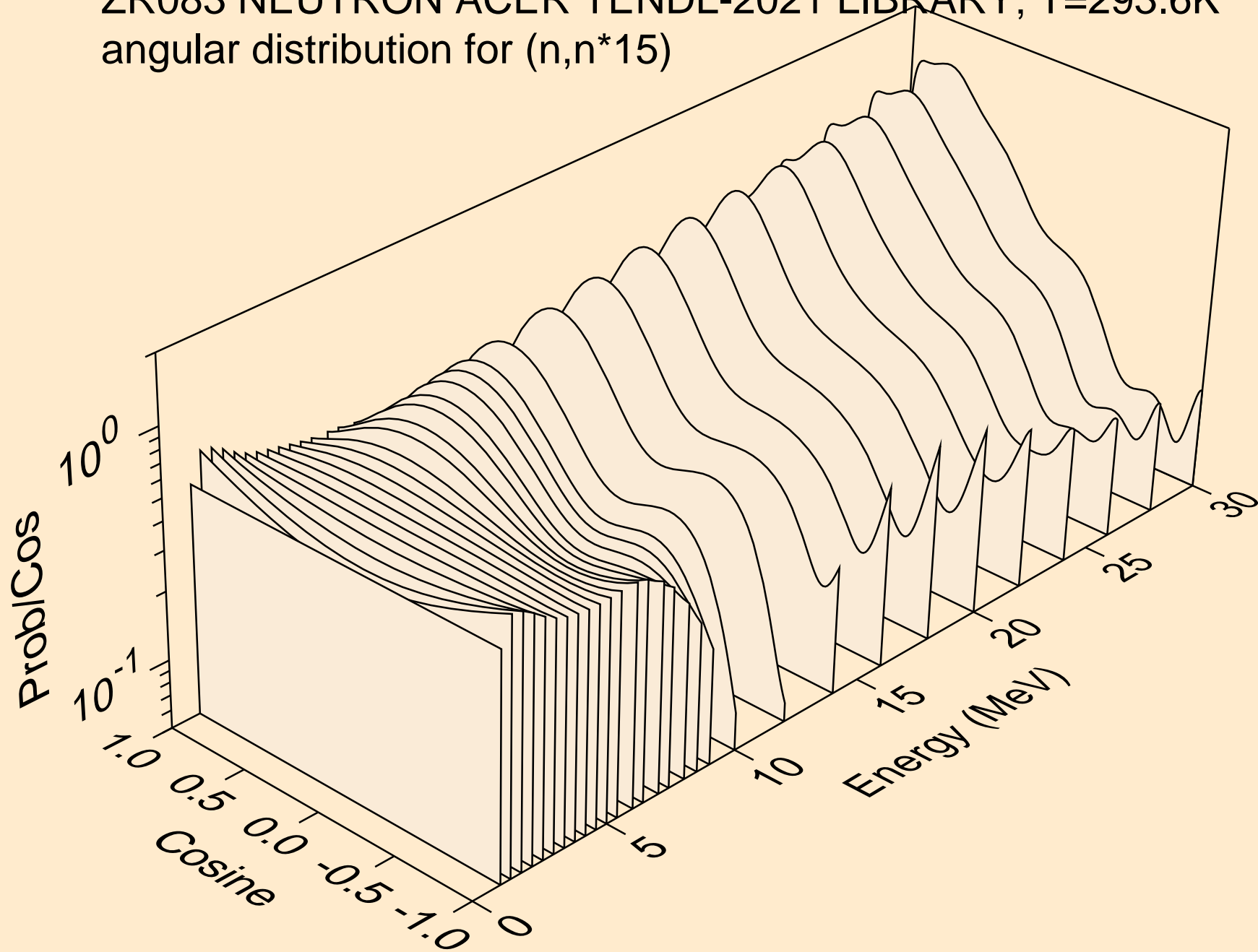
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angular distribution for (n,n\*13)



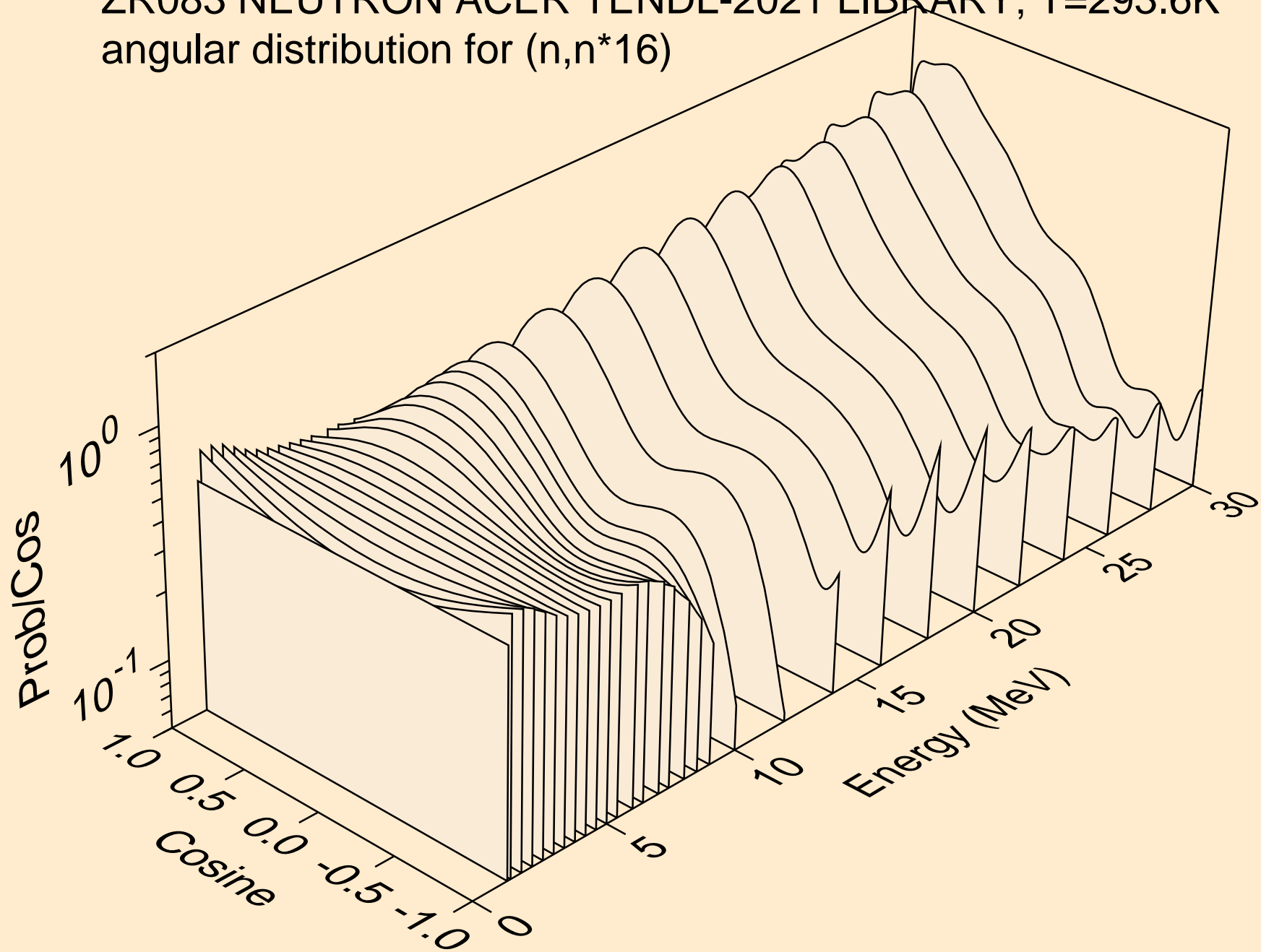
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angular distribution for (n,n\*14)



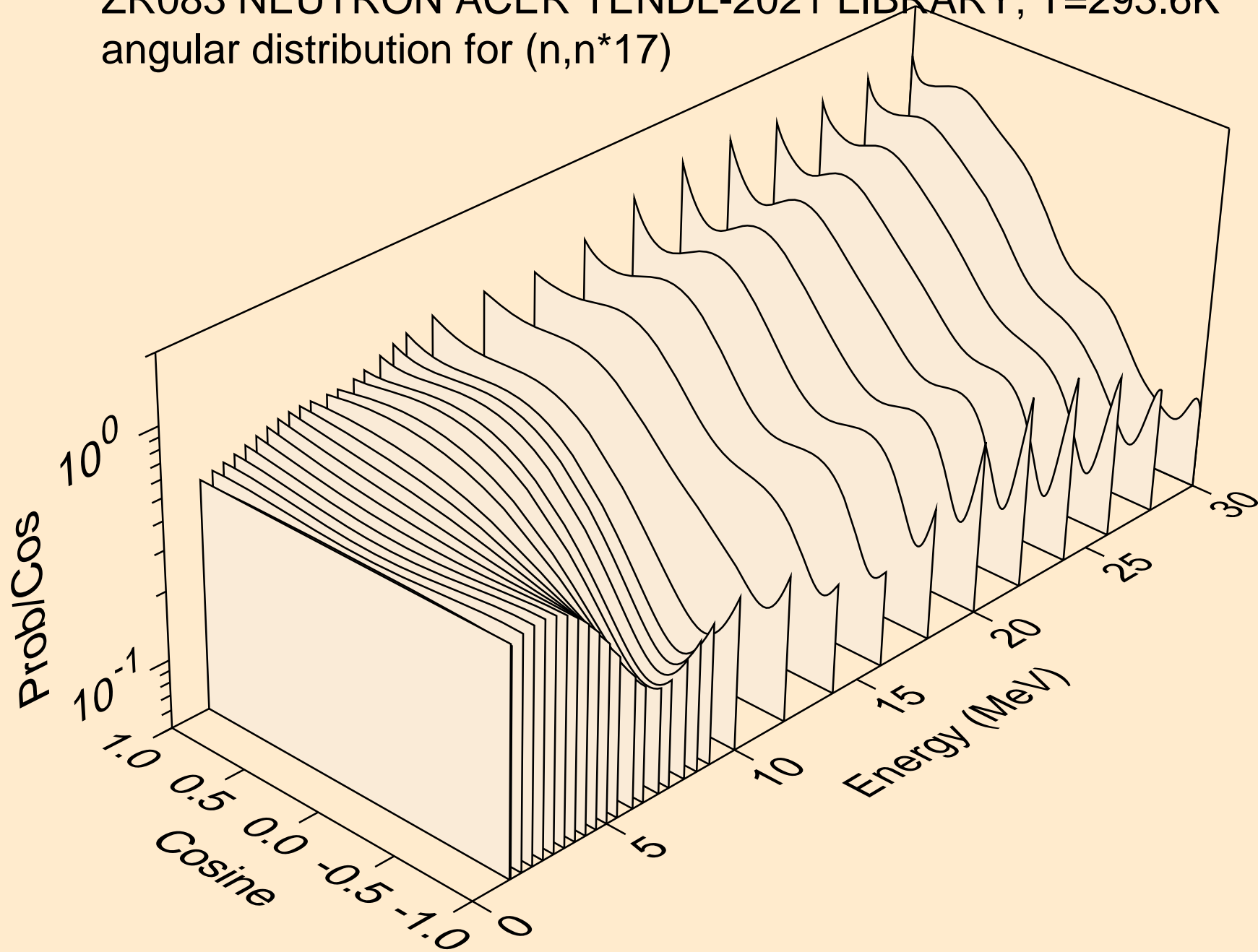
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angular distribution for (n,n\*15)



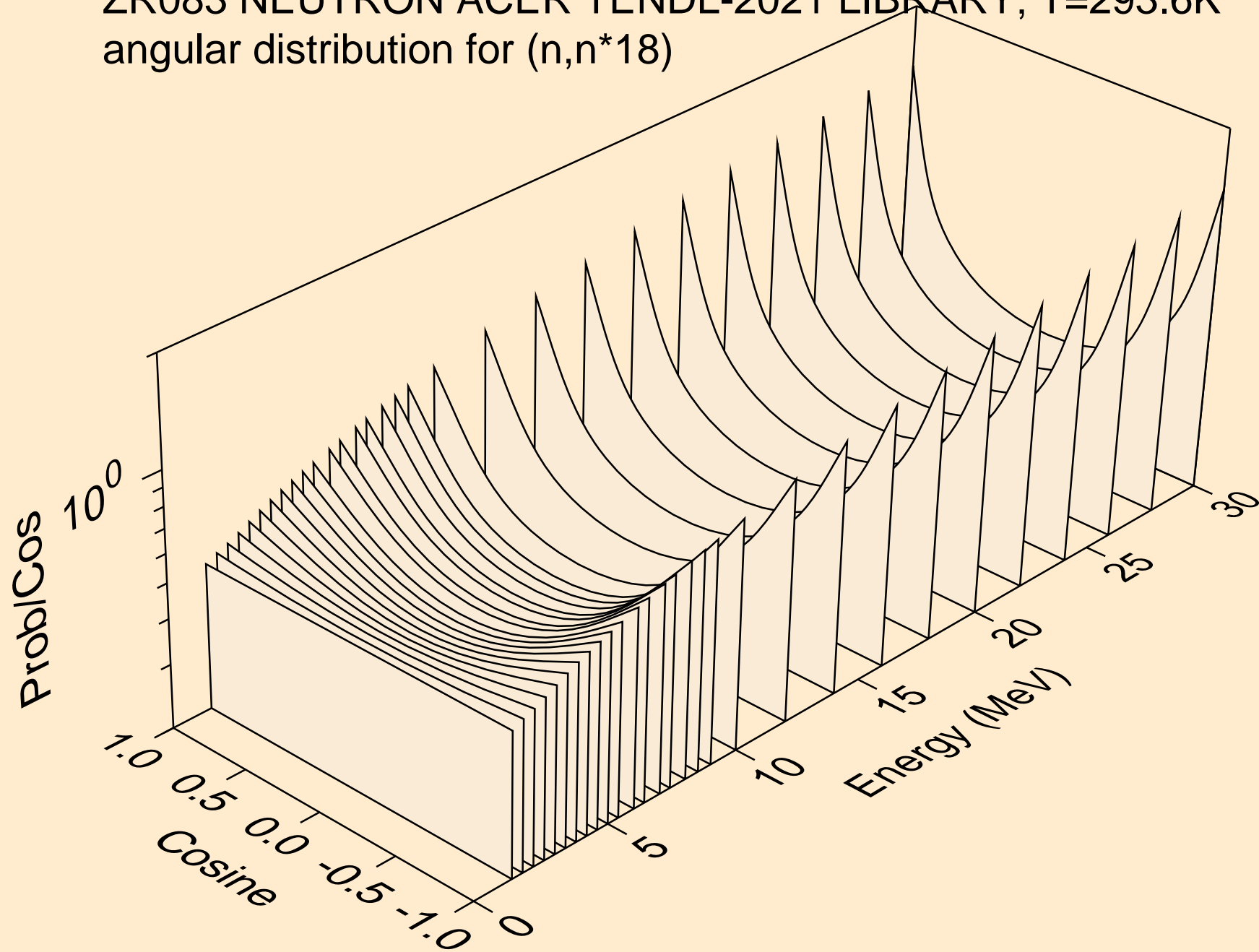
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angular distribution for (n,n\*16)



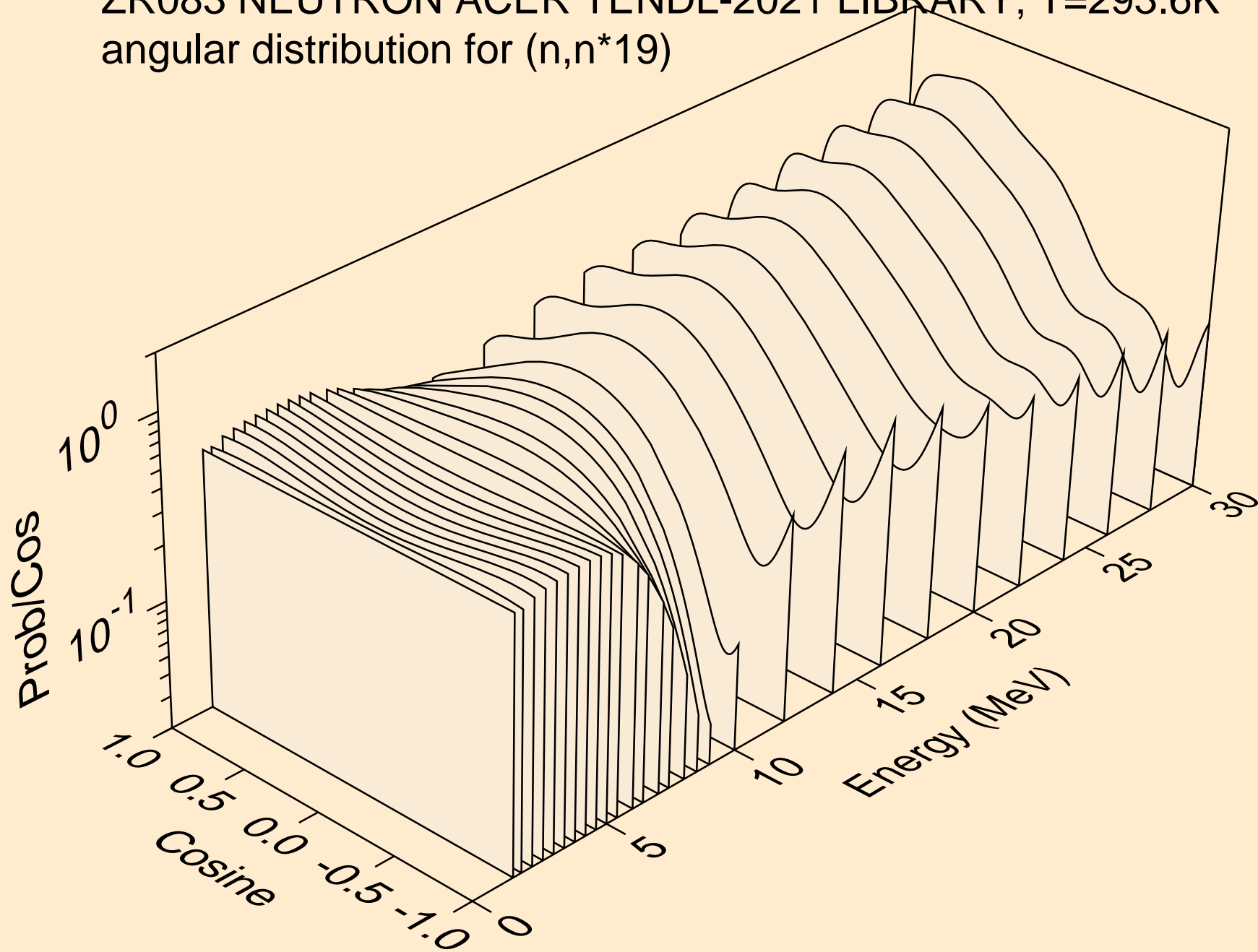
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angular distribution for (n,n\*17)



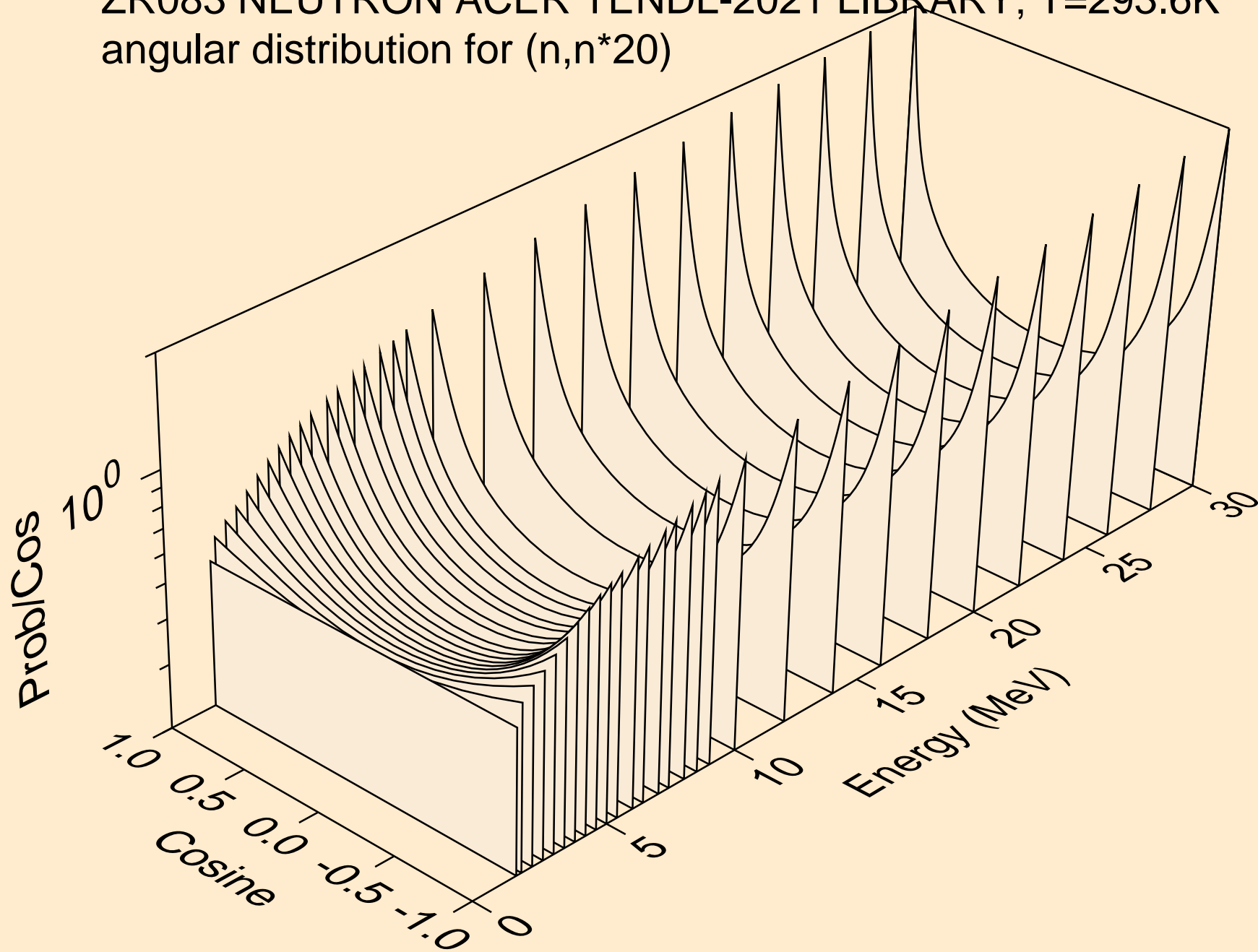
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*18)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*19)

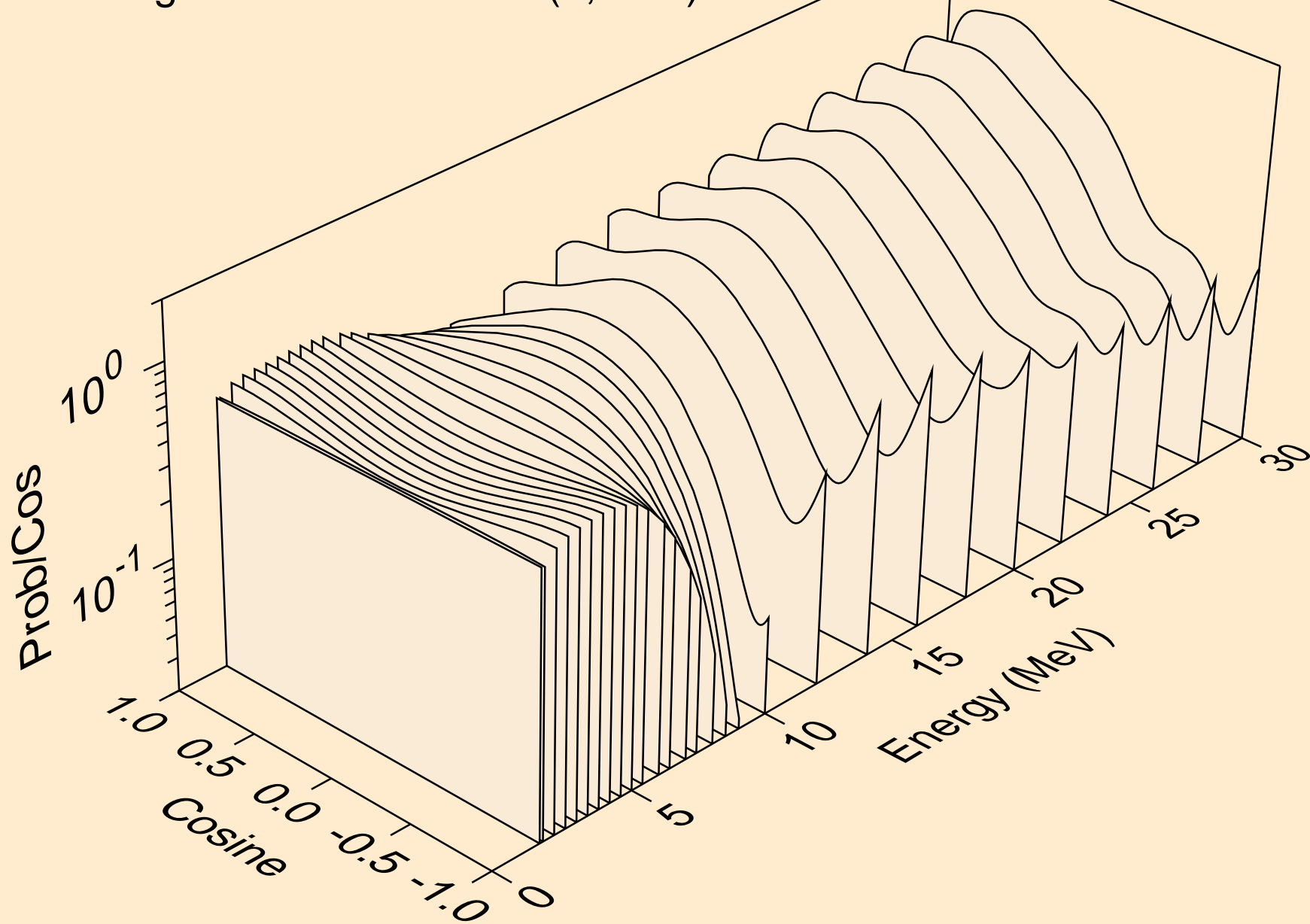


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angular distribution for (n,n\*20)

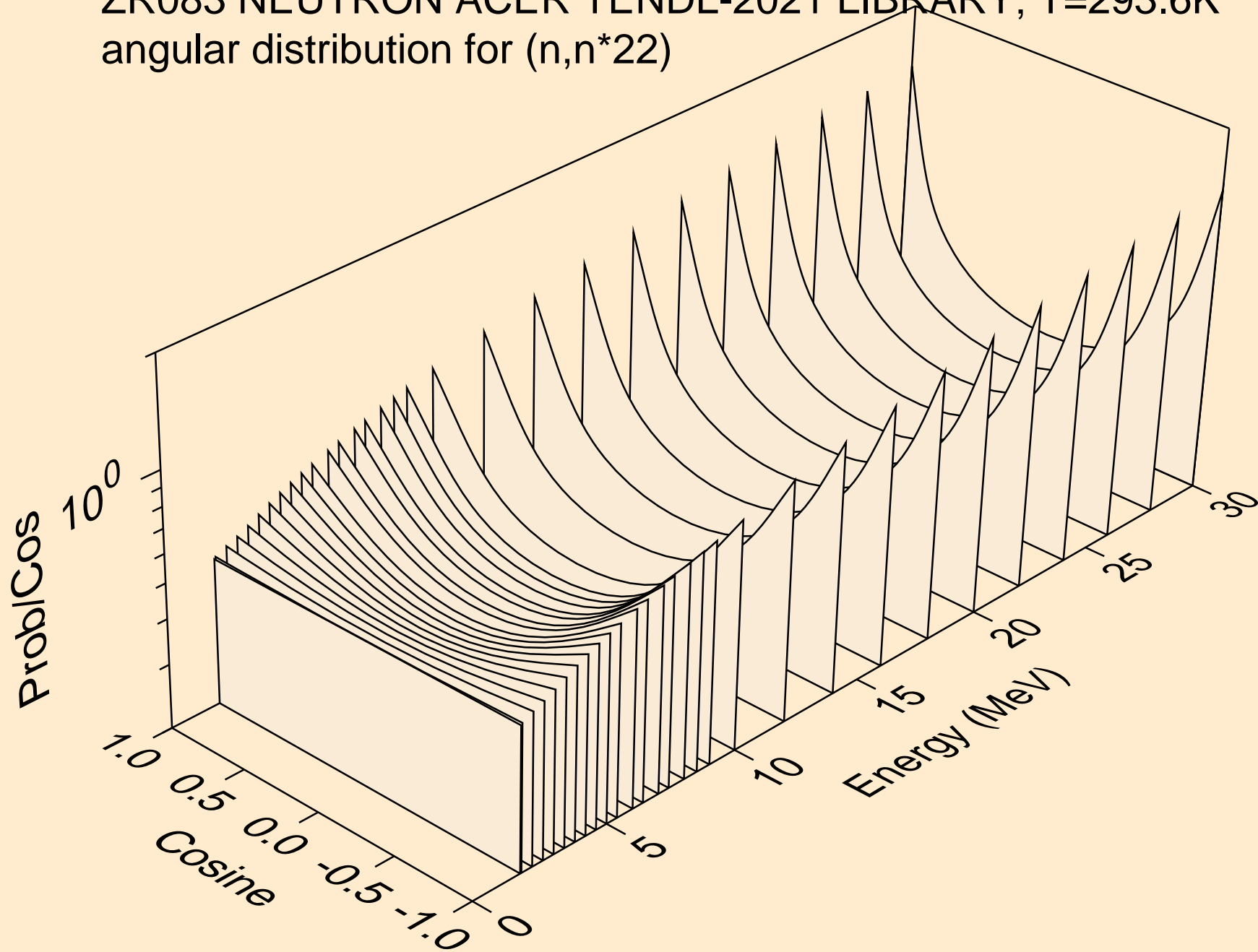




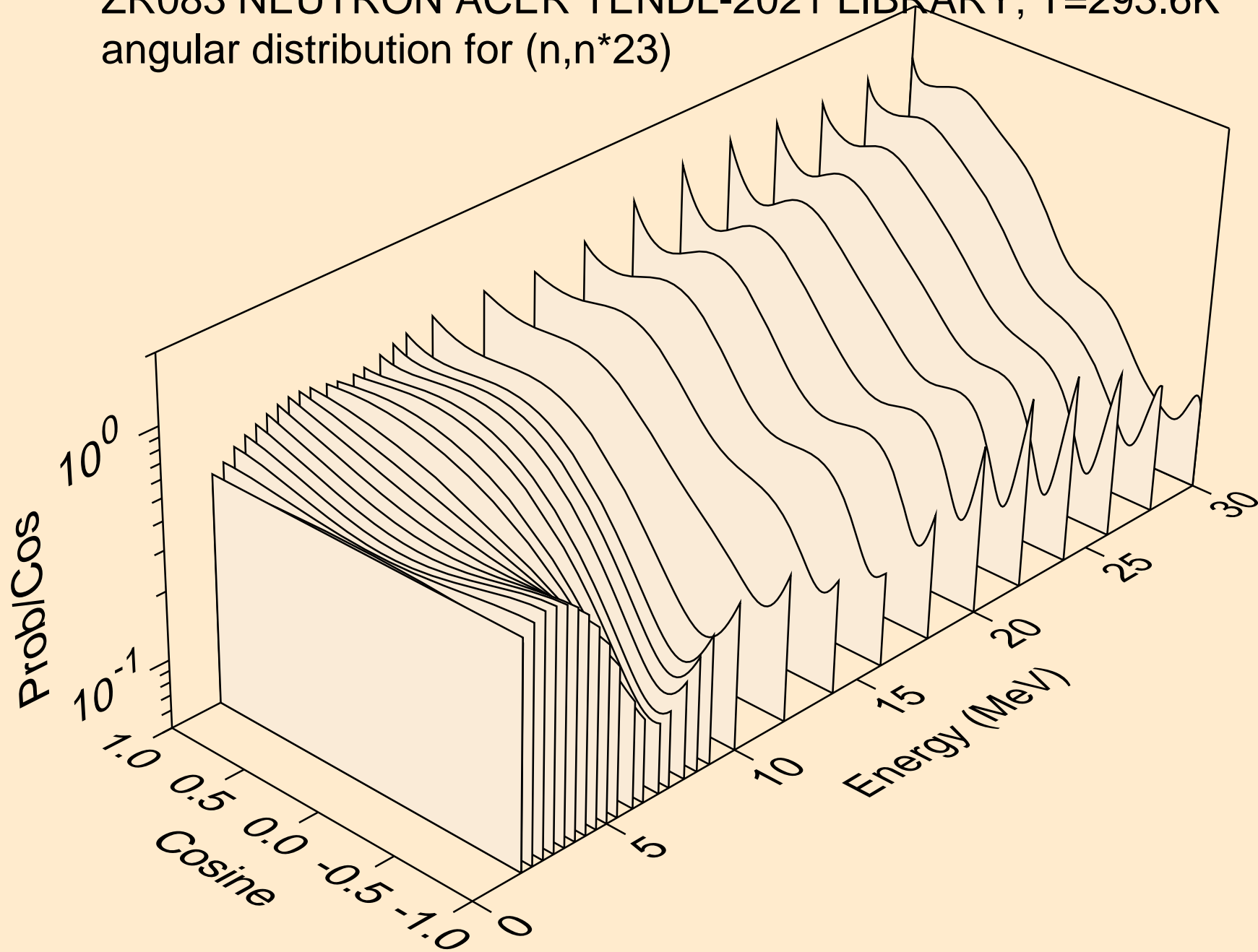
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angular distribution for (n,n\*21)



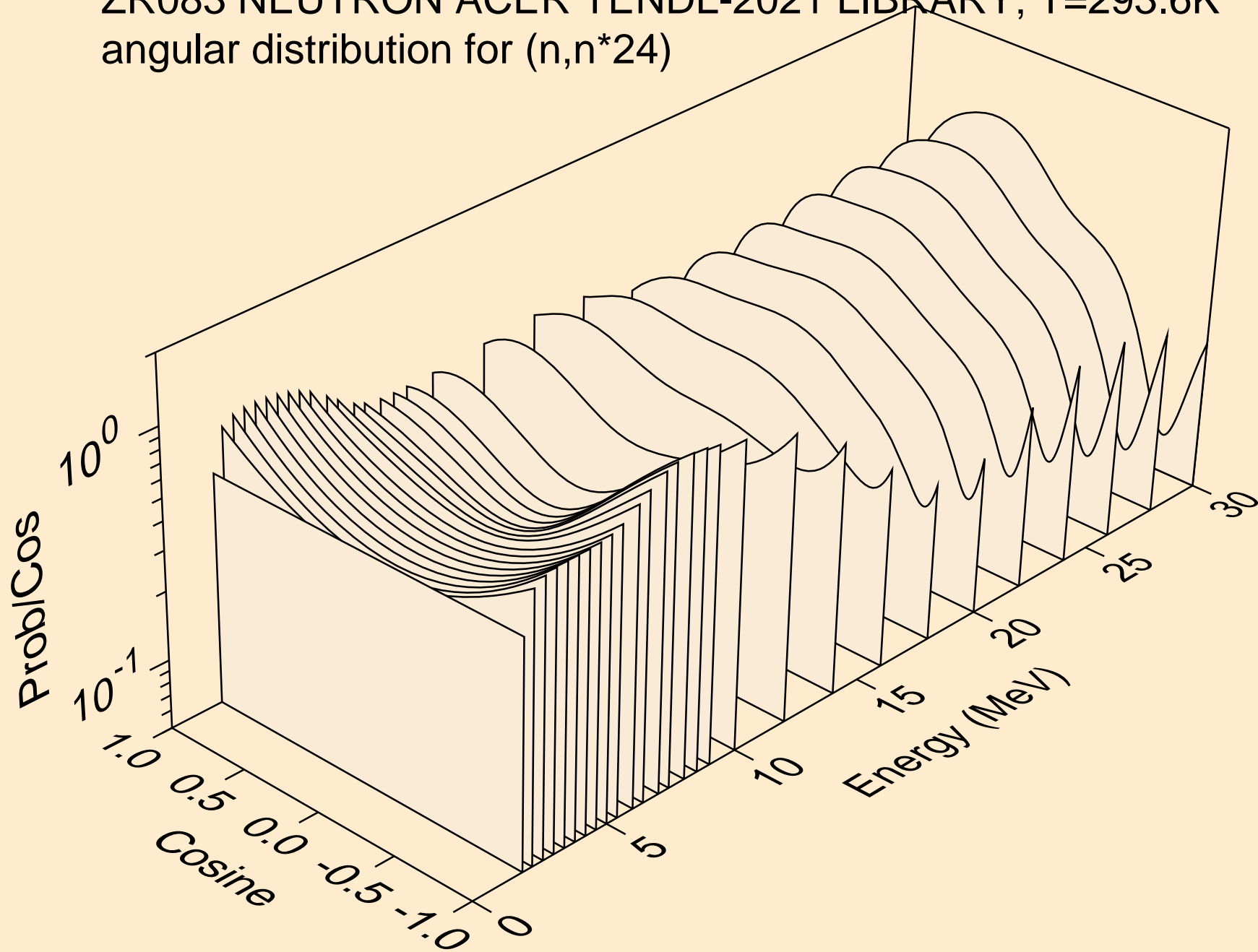
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angular distribution for (n,n\*22)



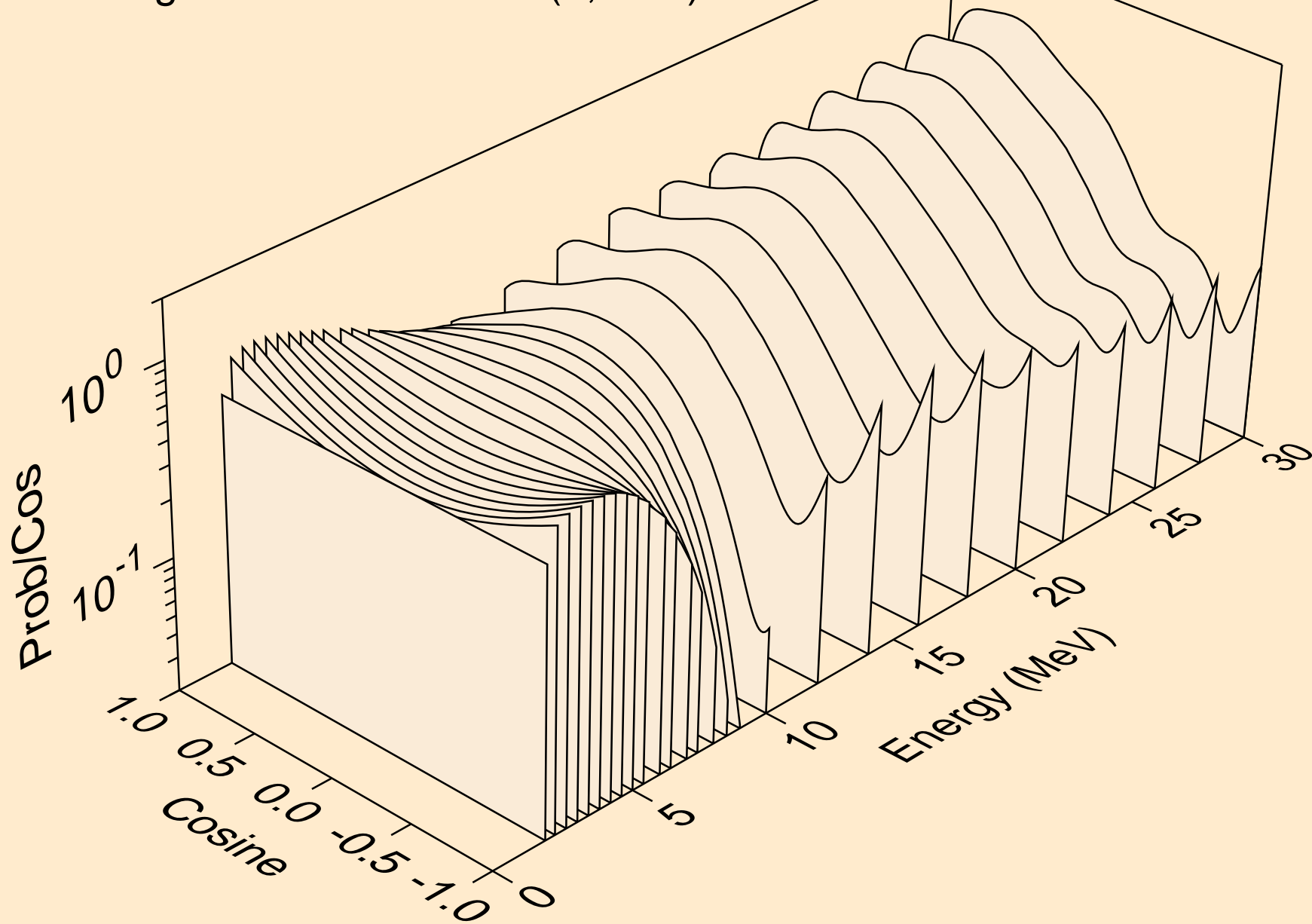
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angular distribution for (n,n\*23)



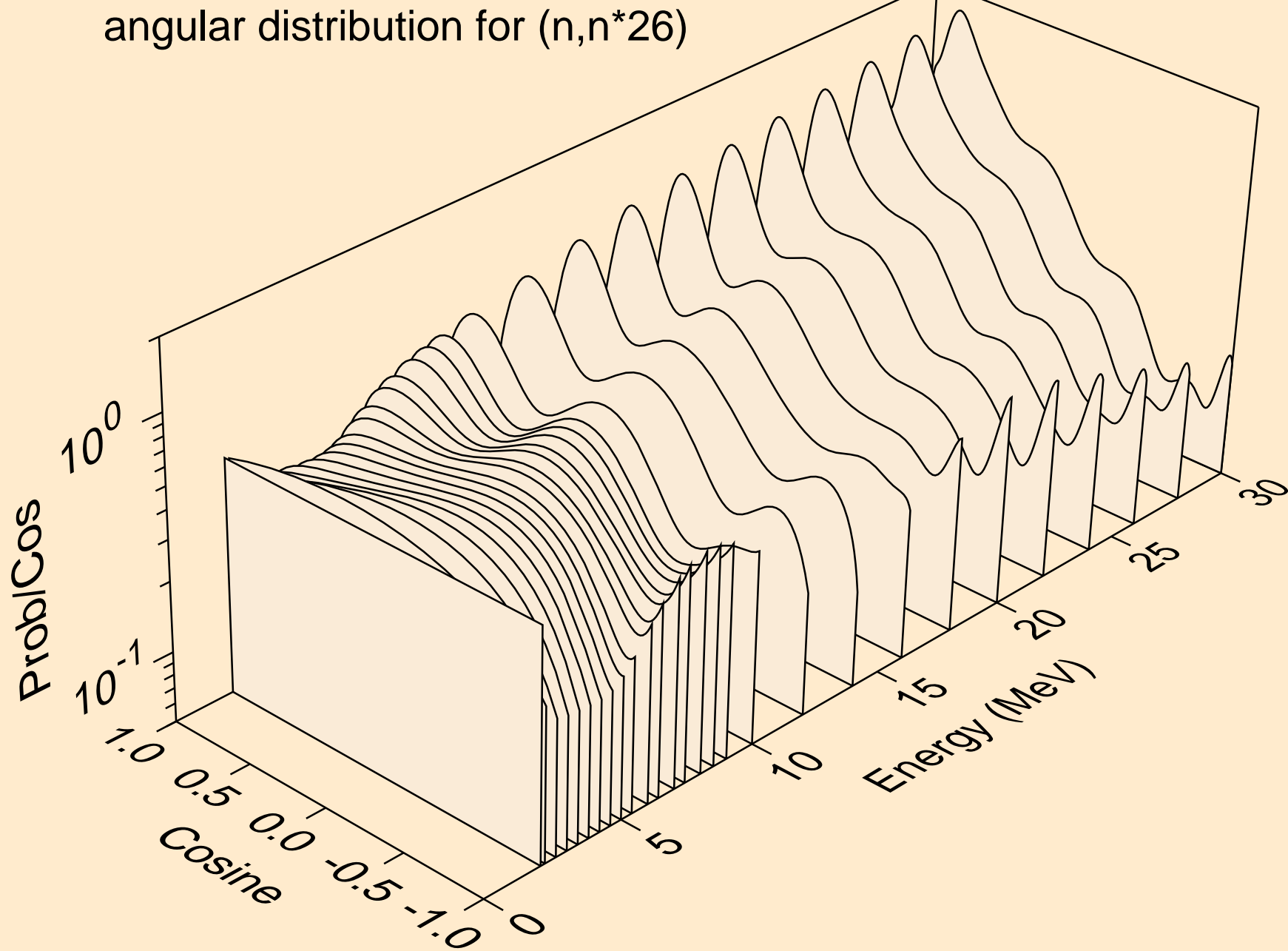
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angular distribution for (n,n\*24)



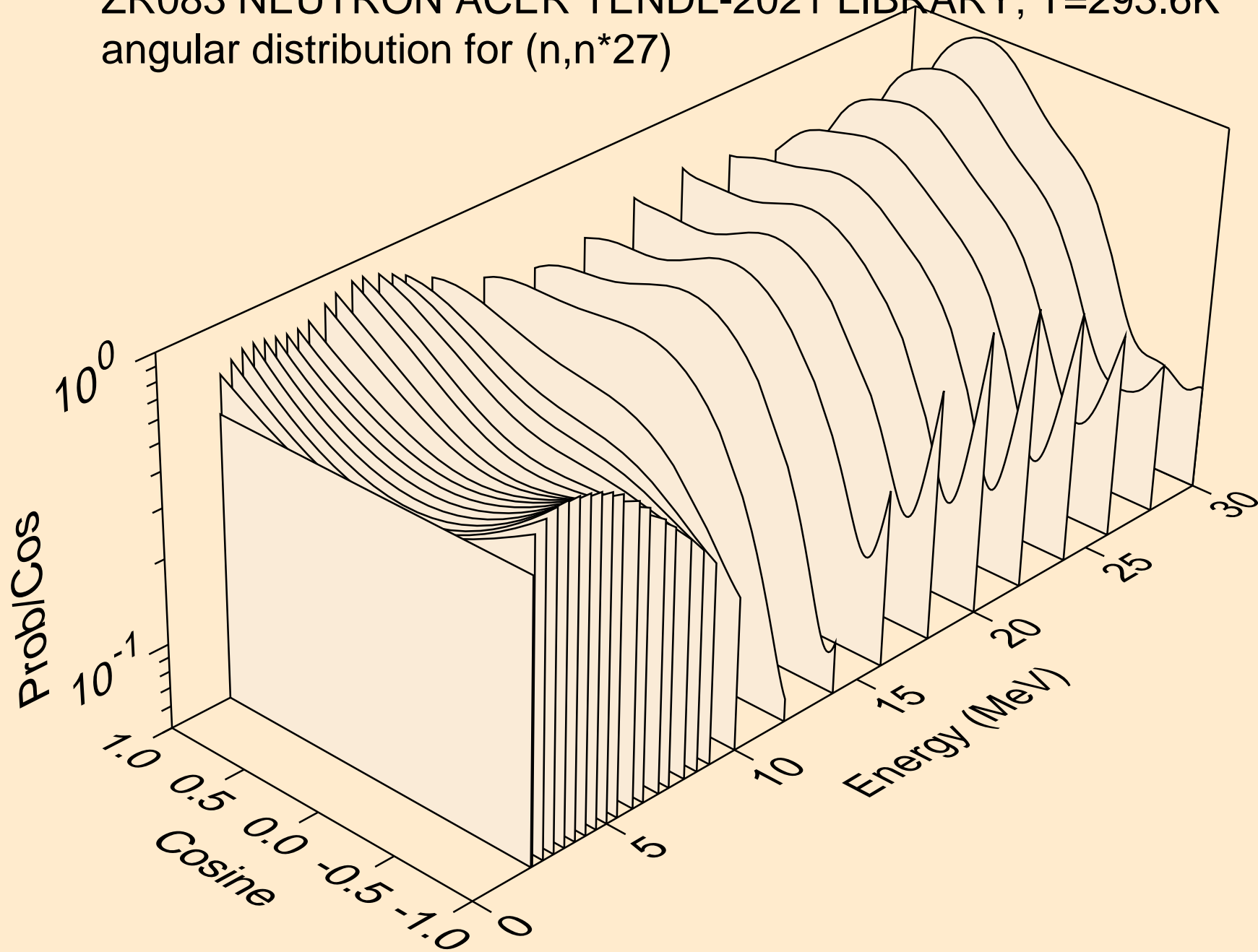
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angular distribution for (n,n\*25)



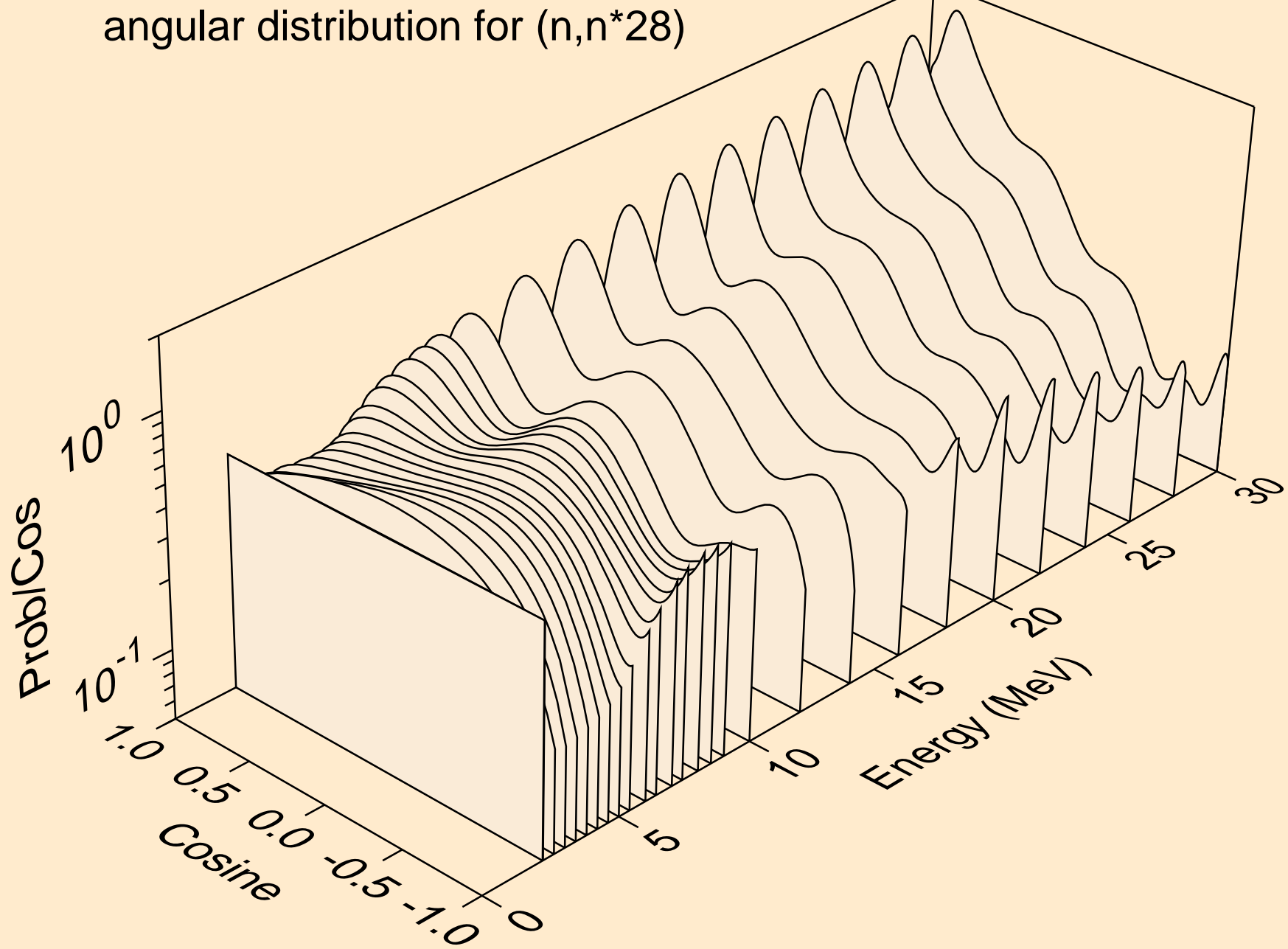
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)

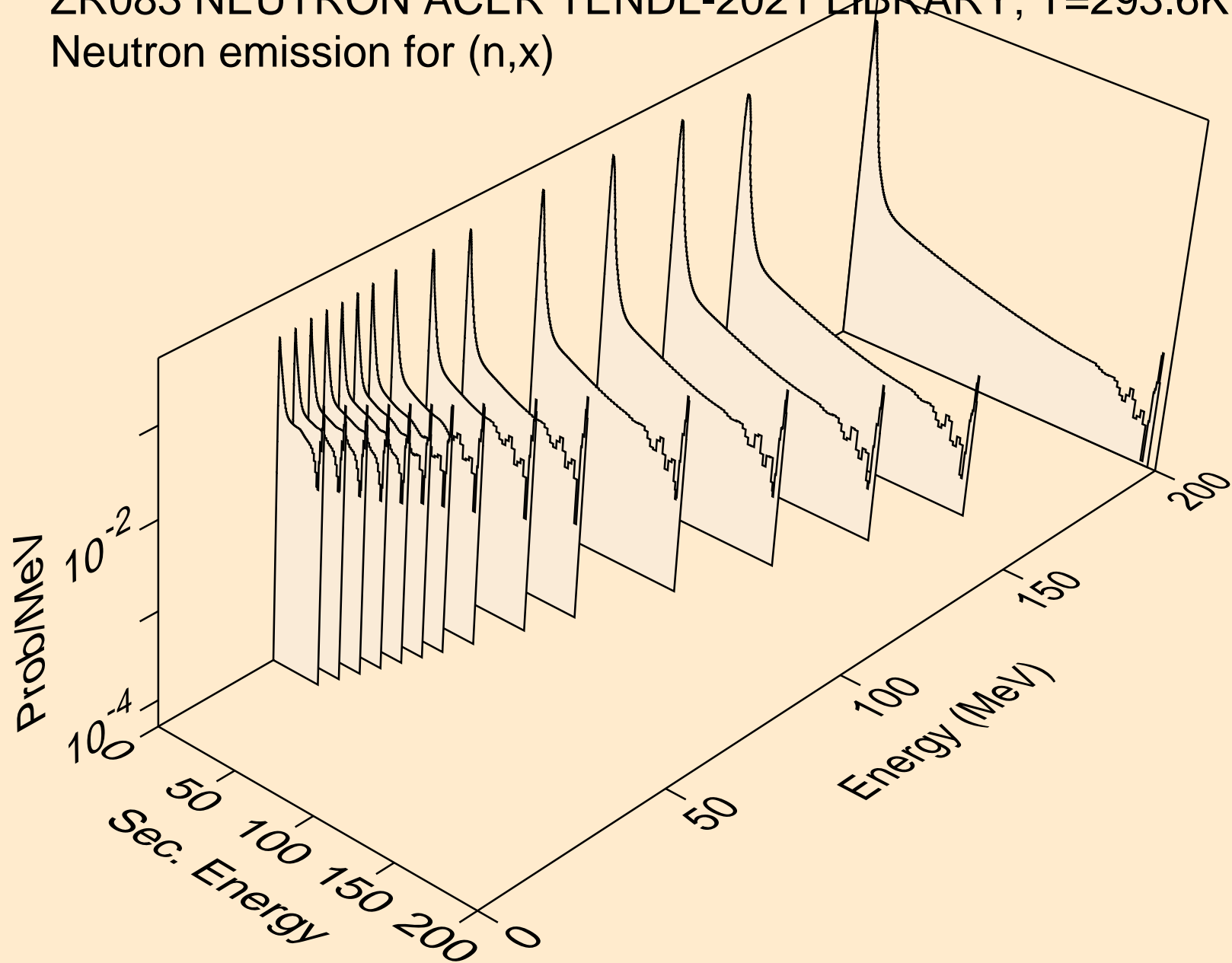


ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*28)

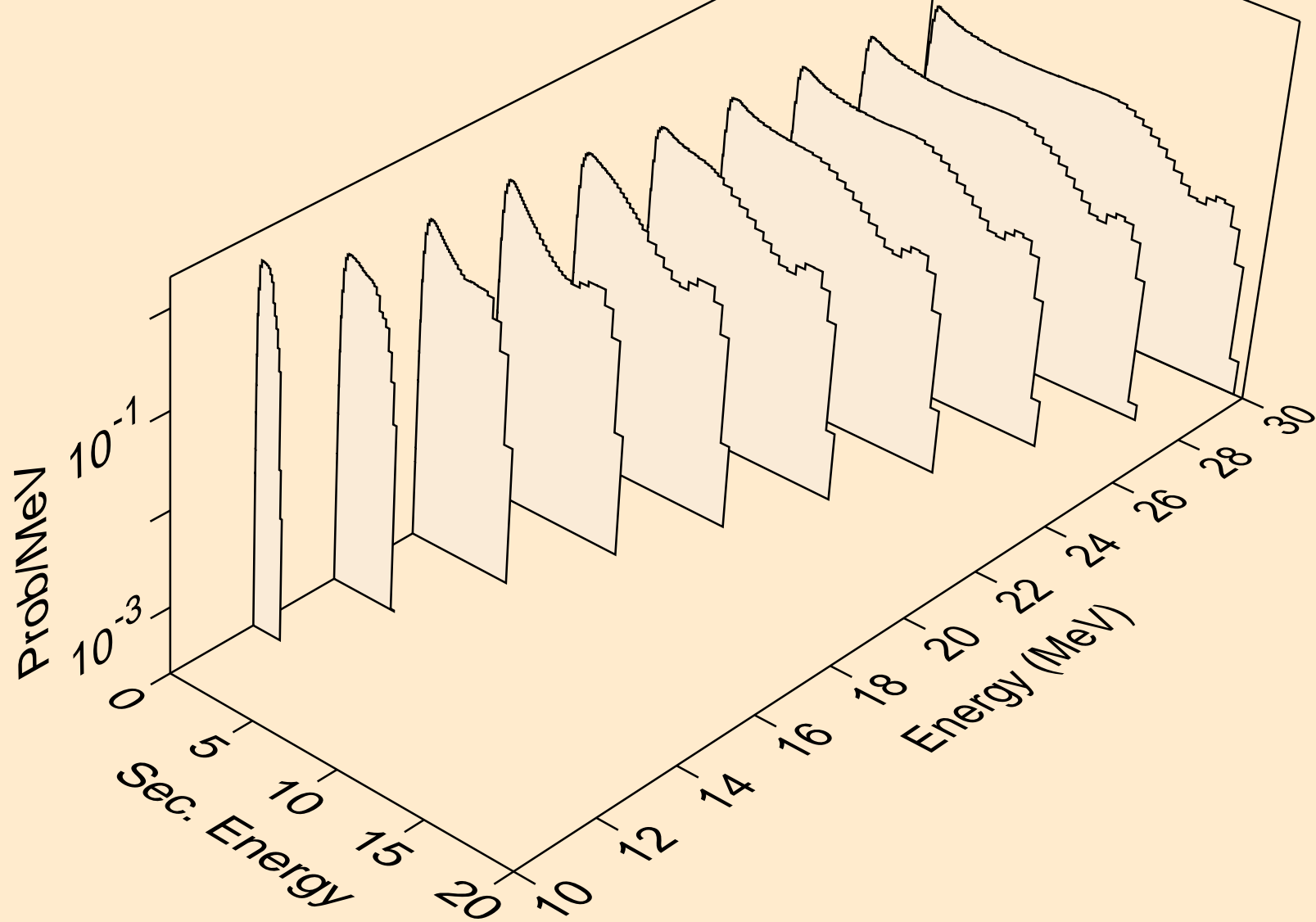




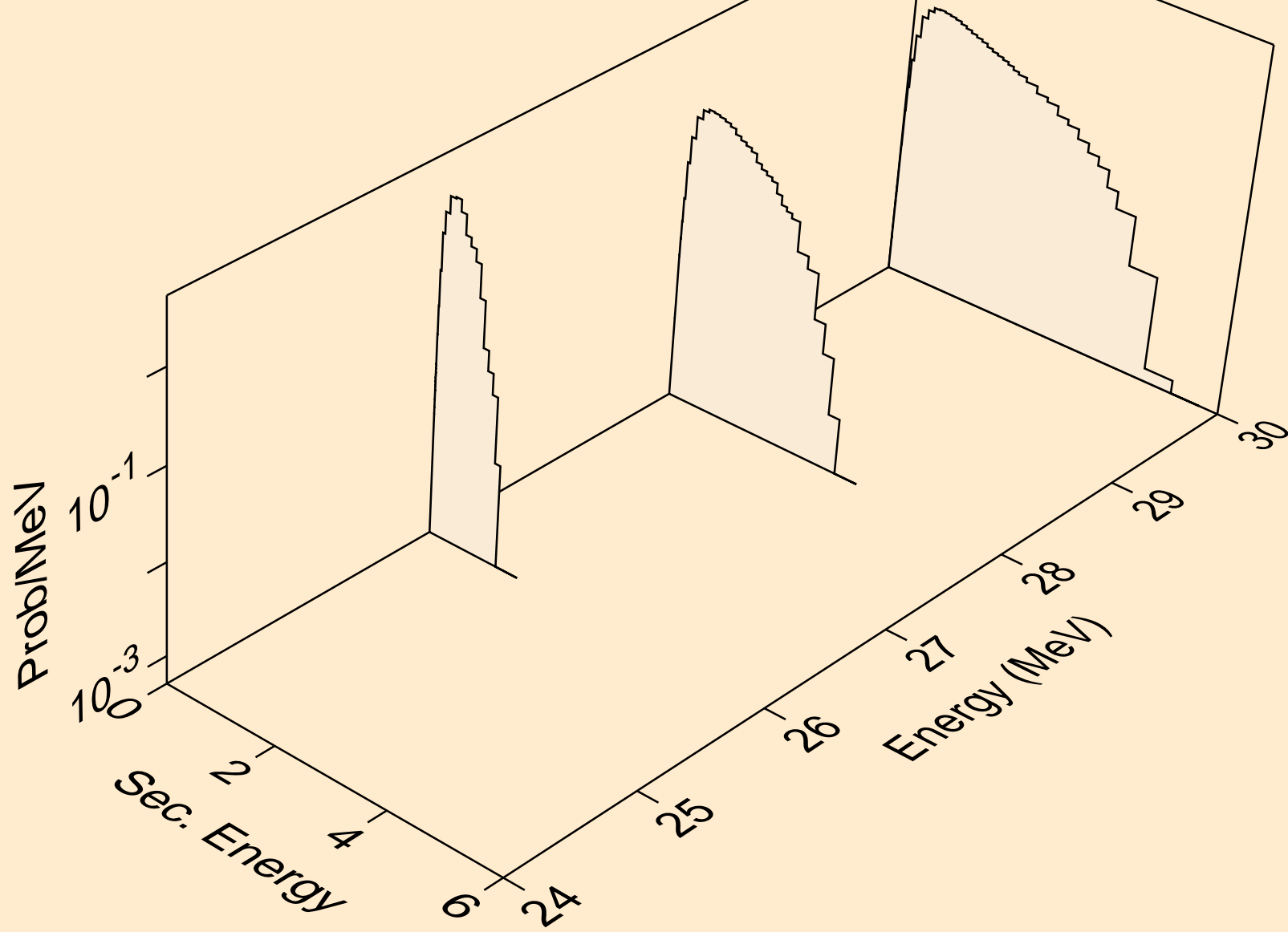
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



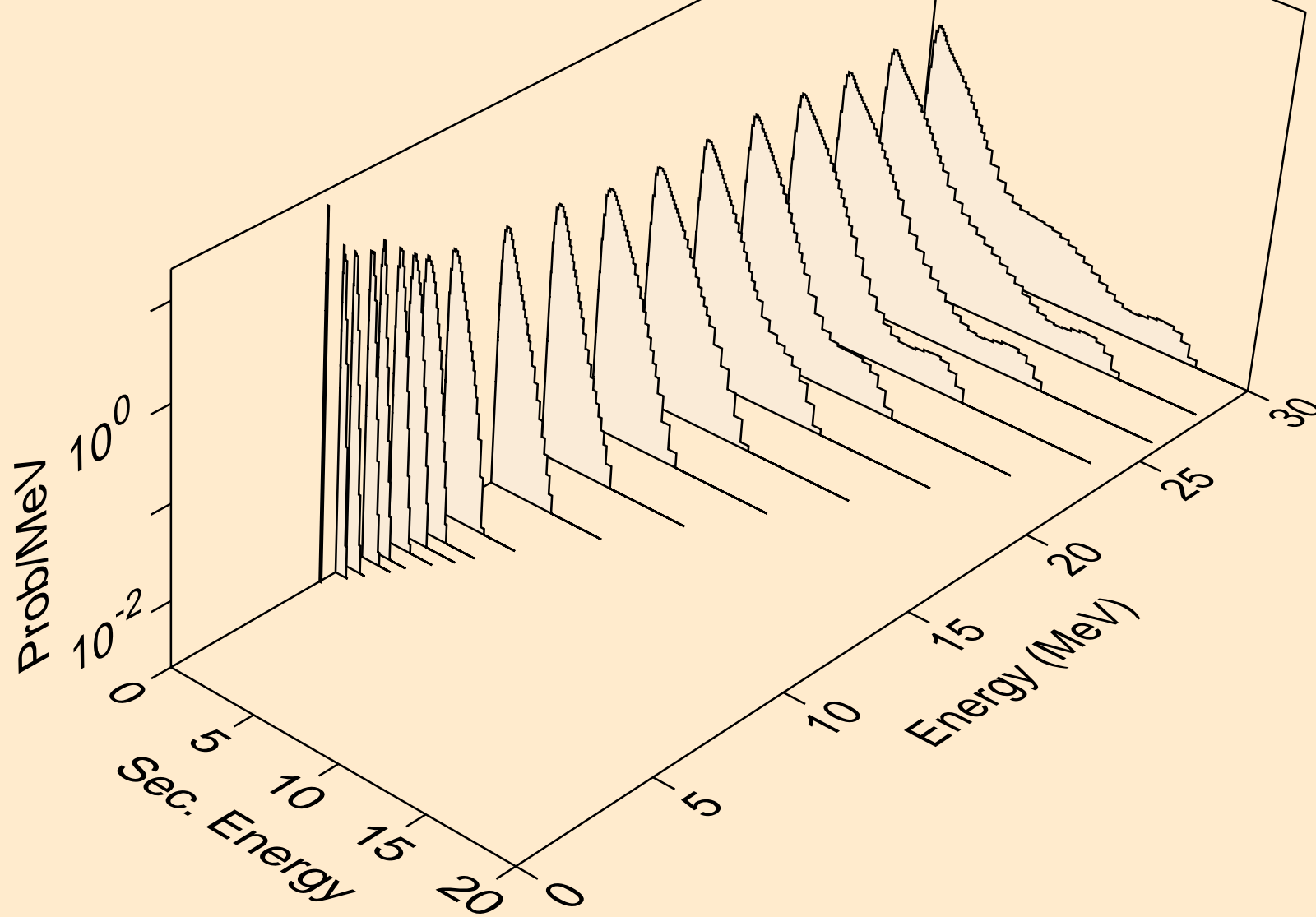
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



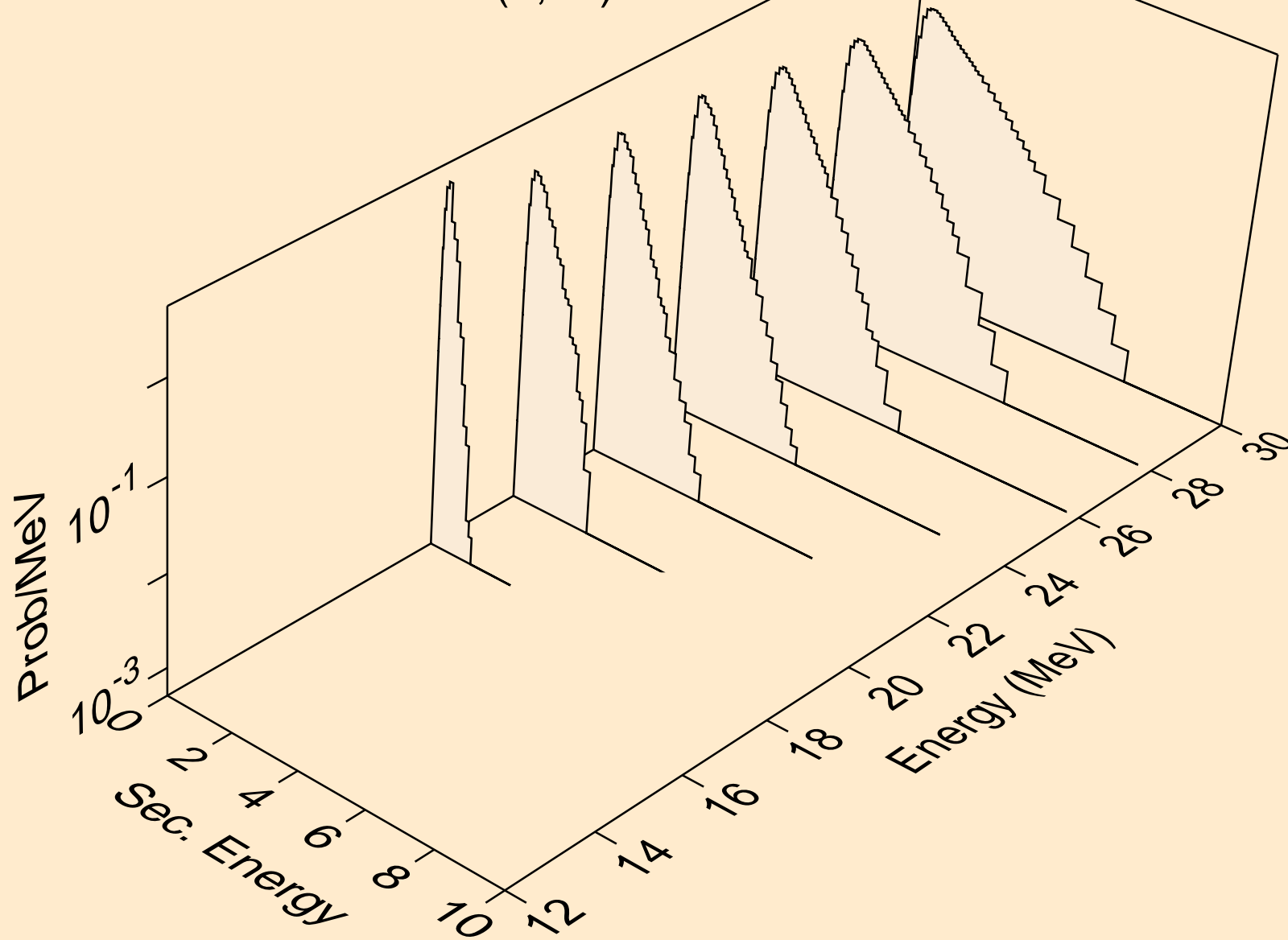
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



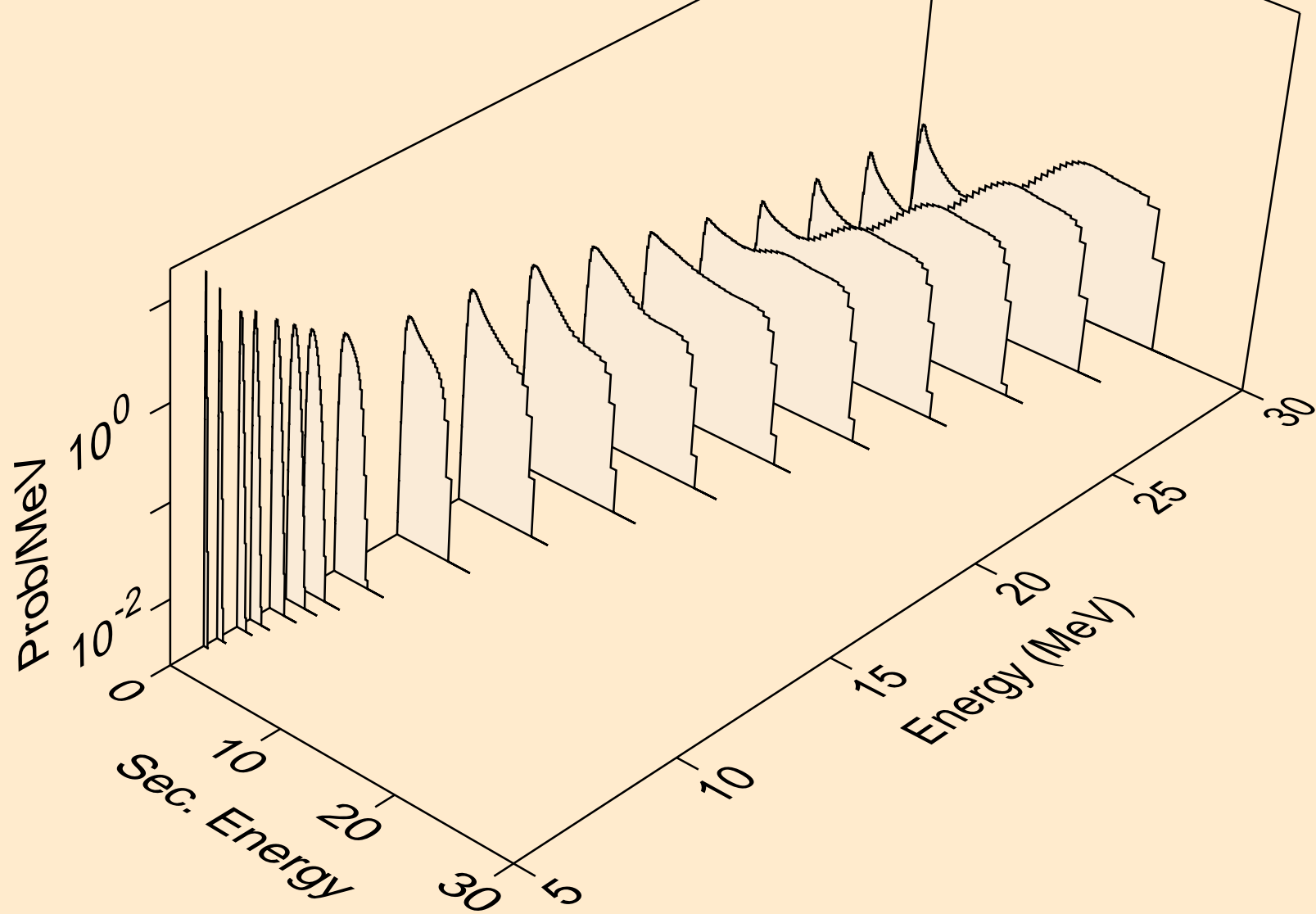
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



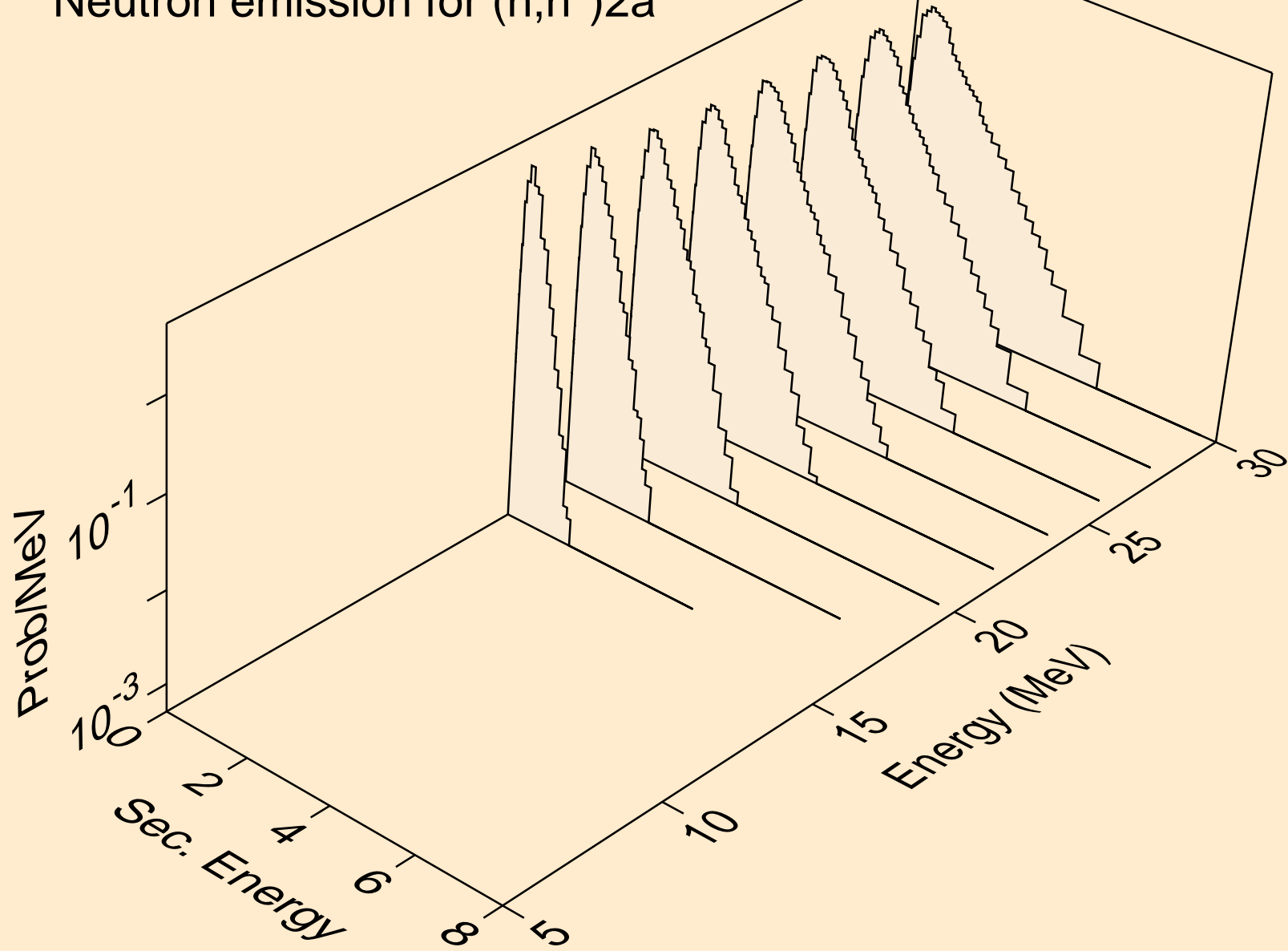
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)a



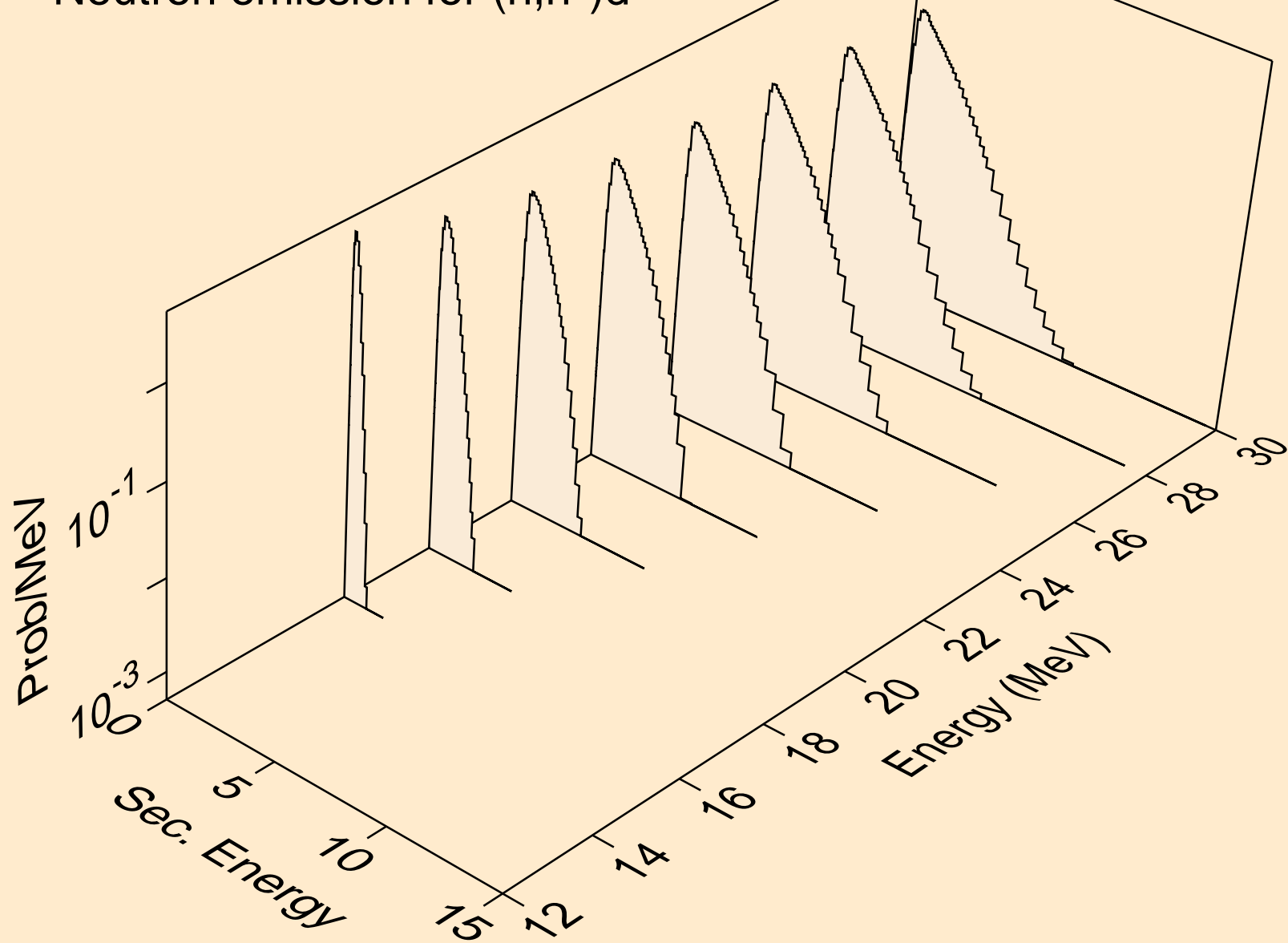
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a

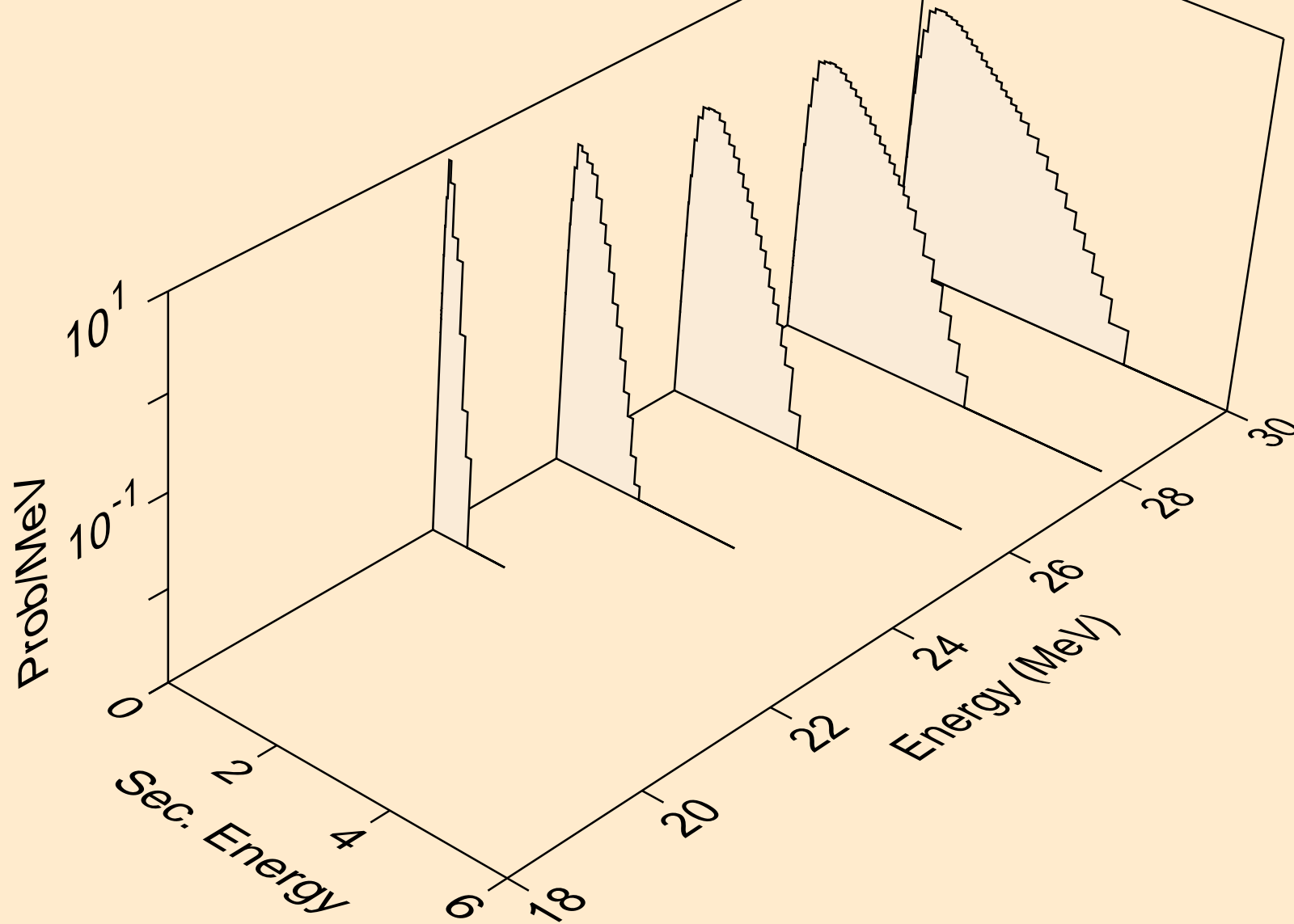


ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d

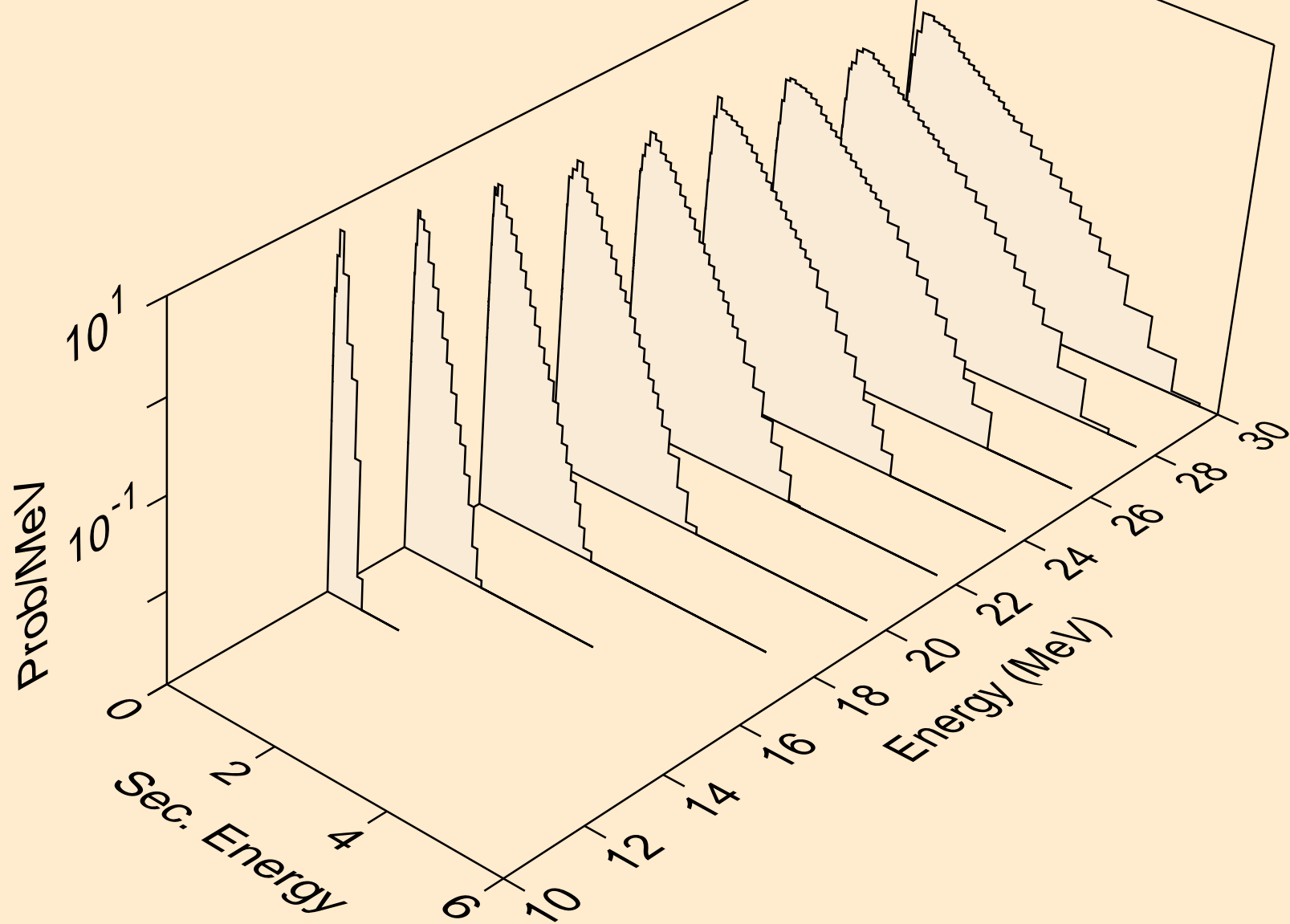




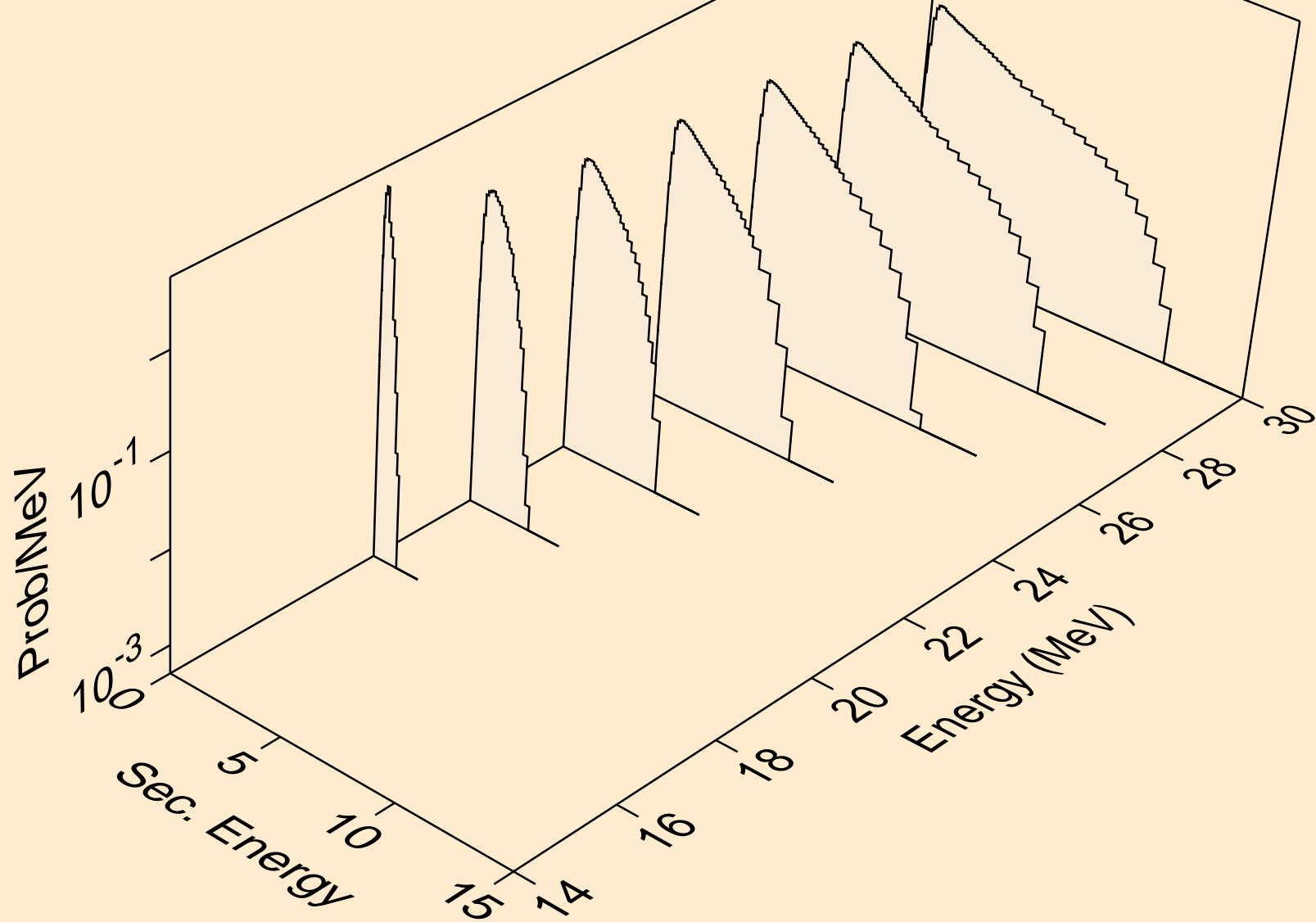
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



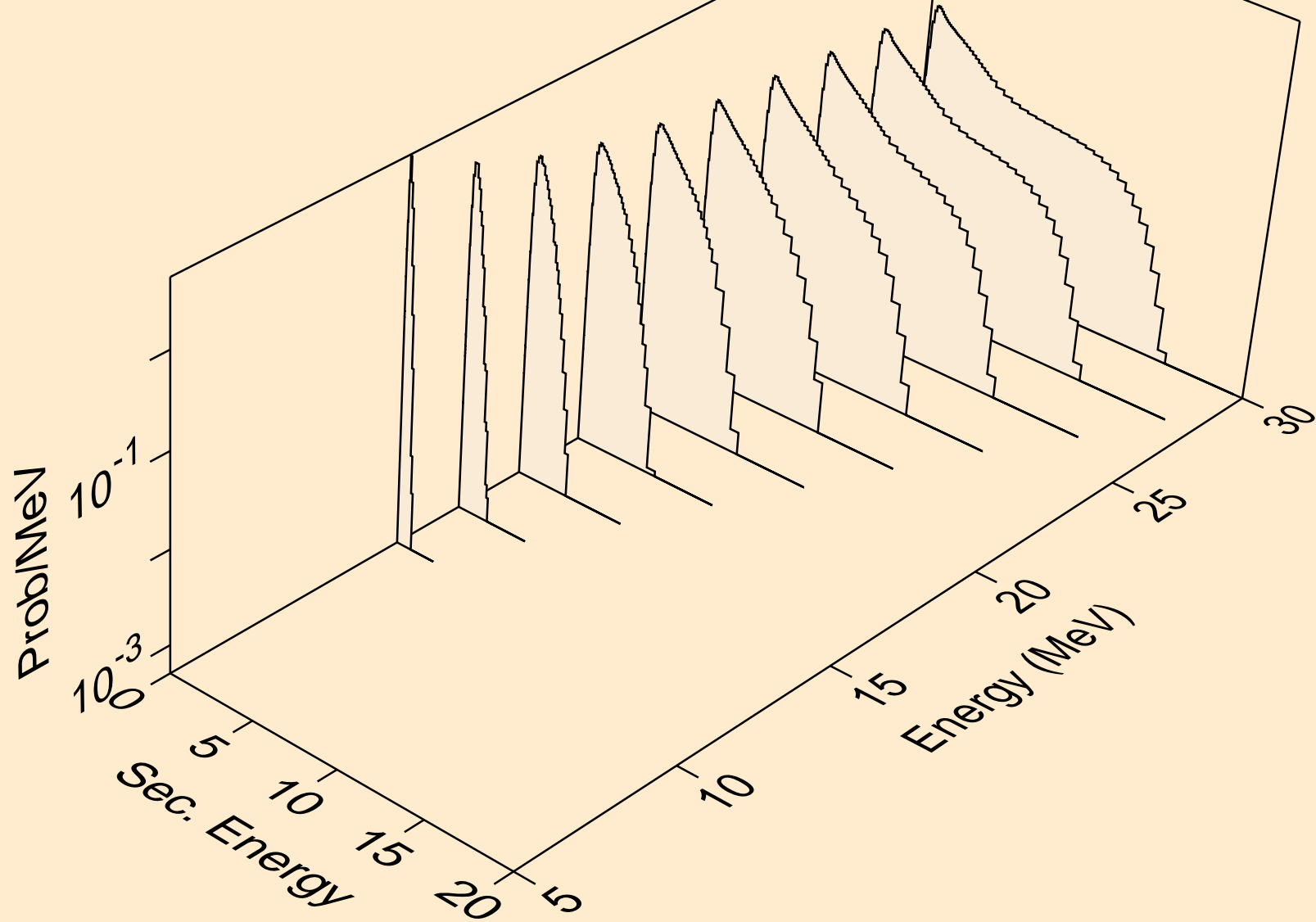
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



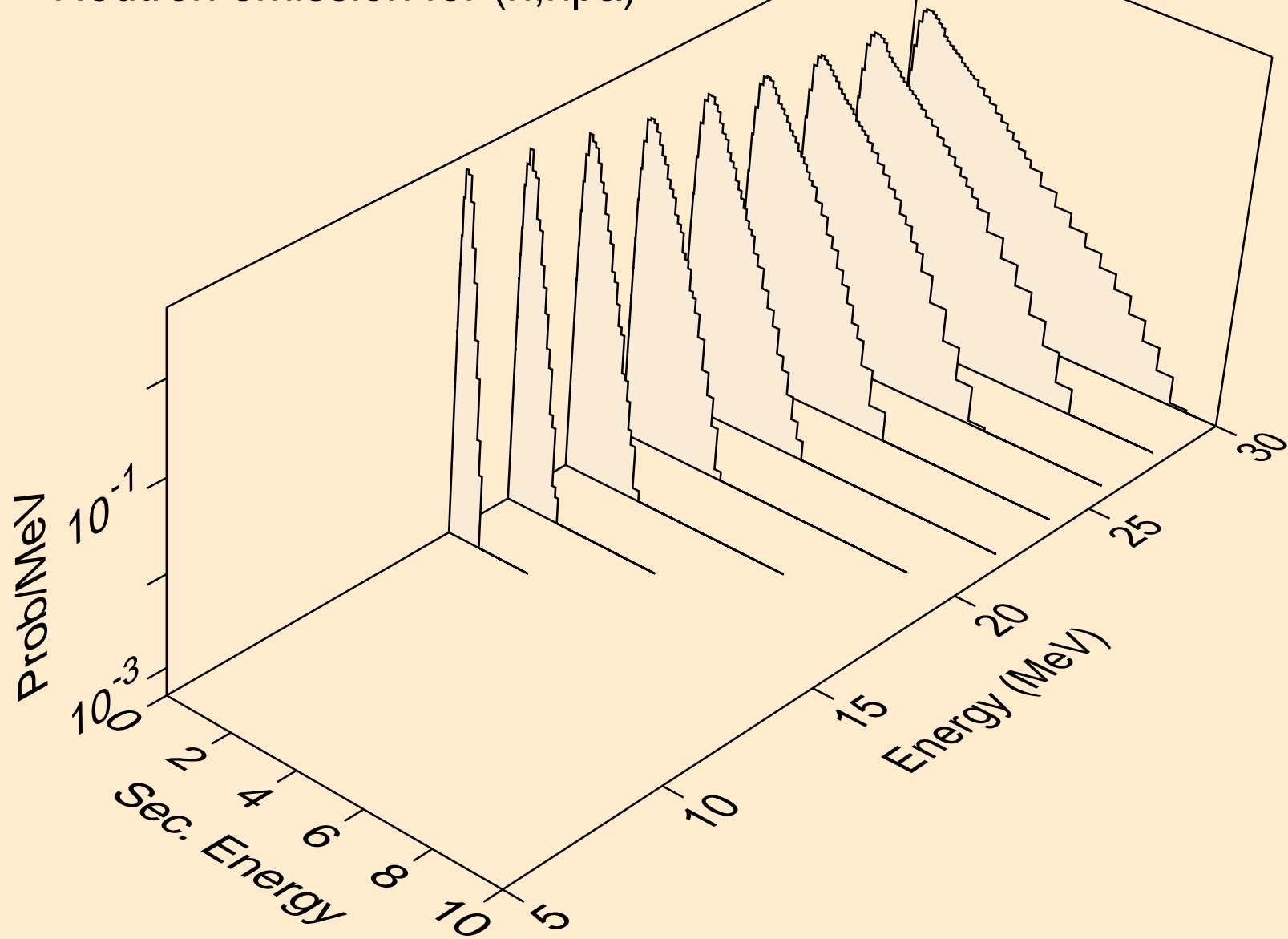
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



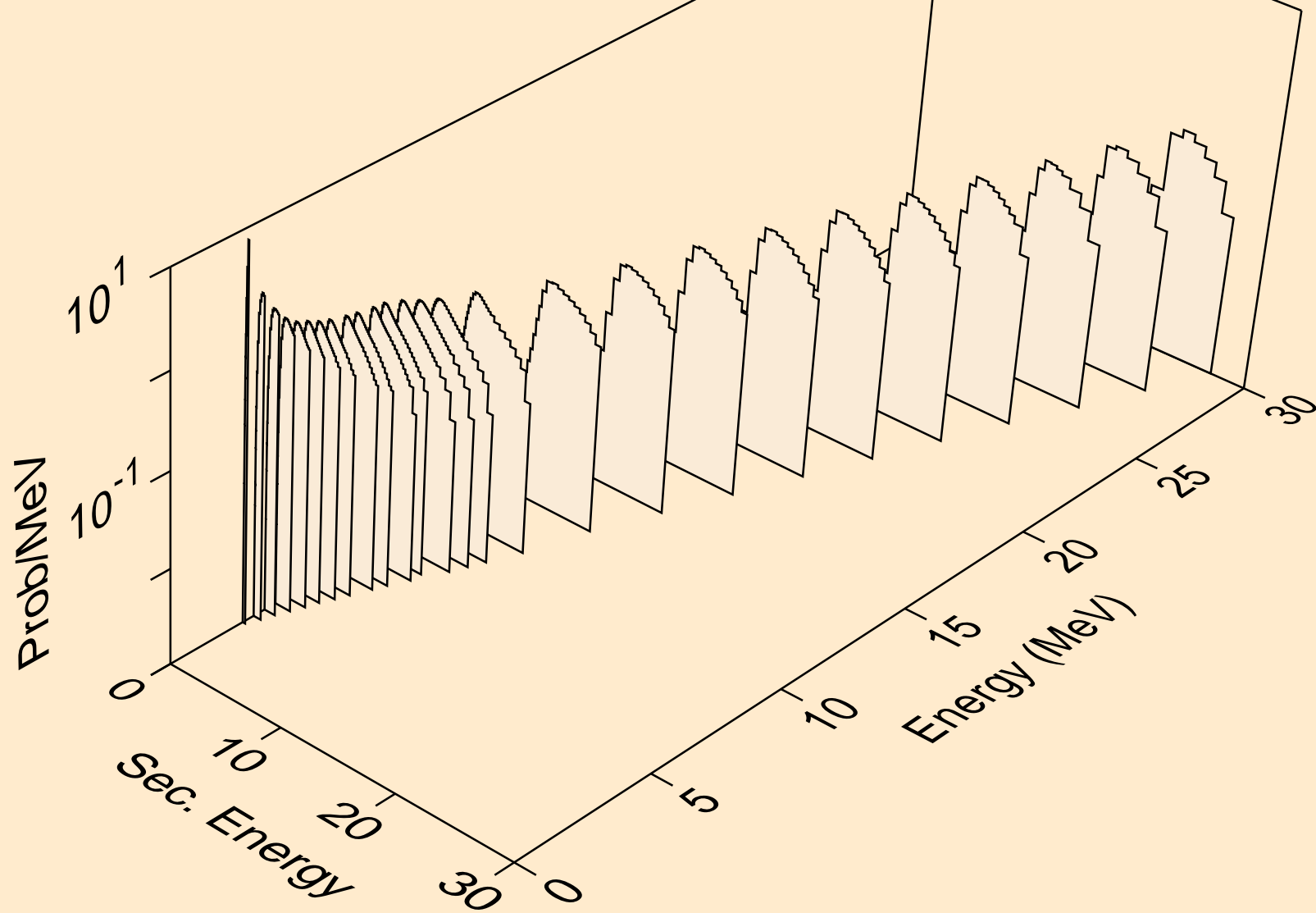
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



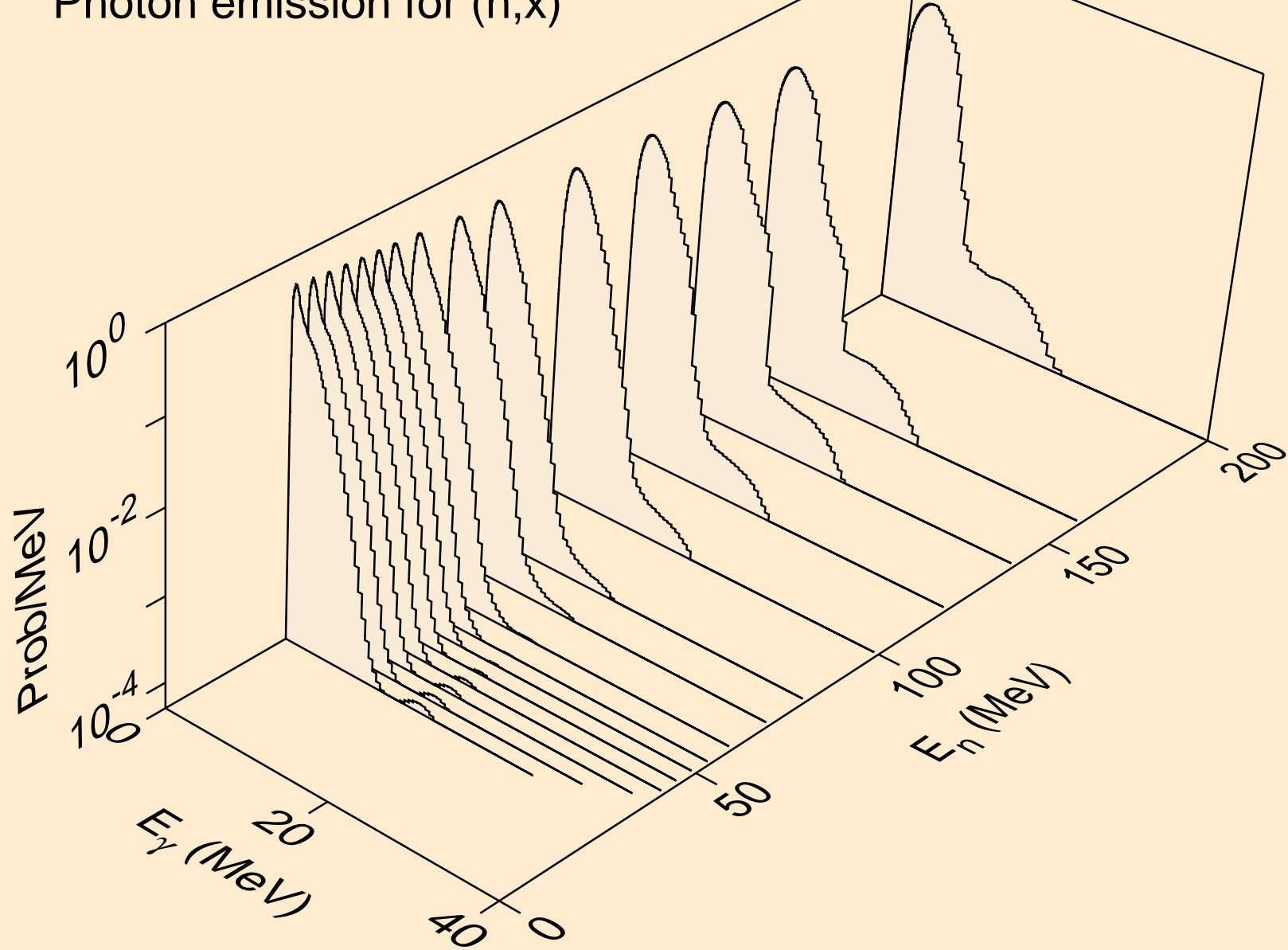
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,npa)



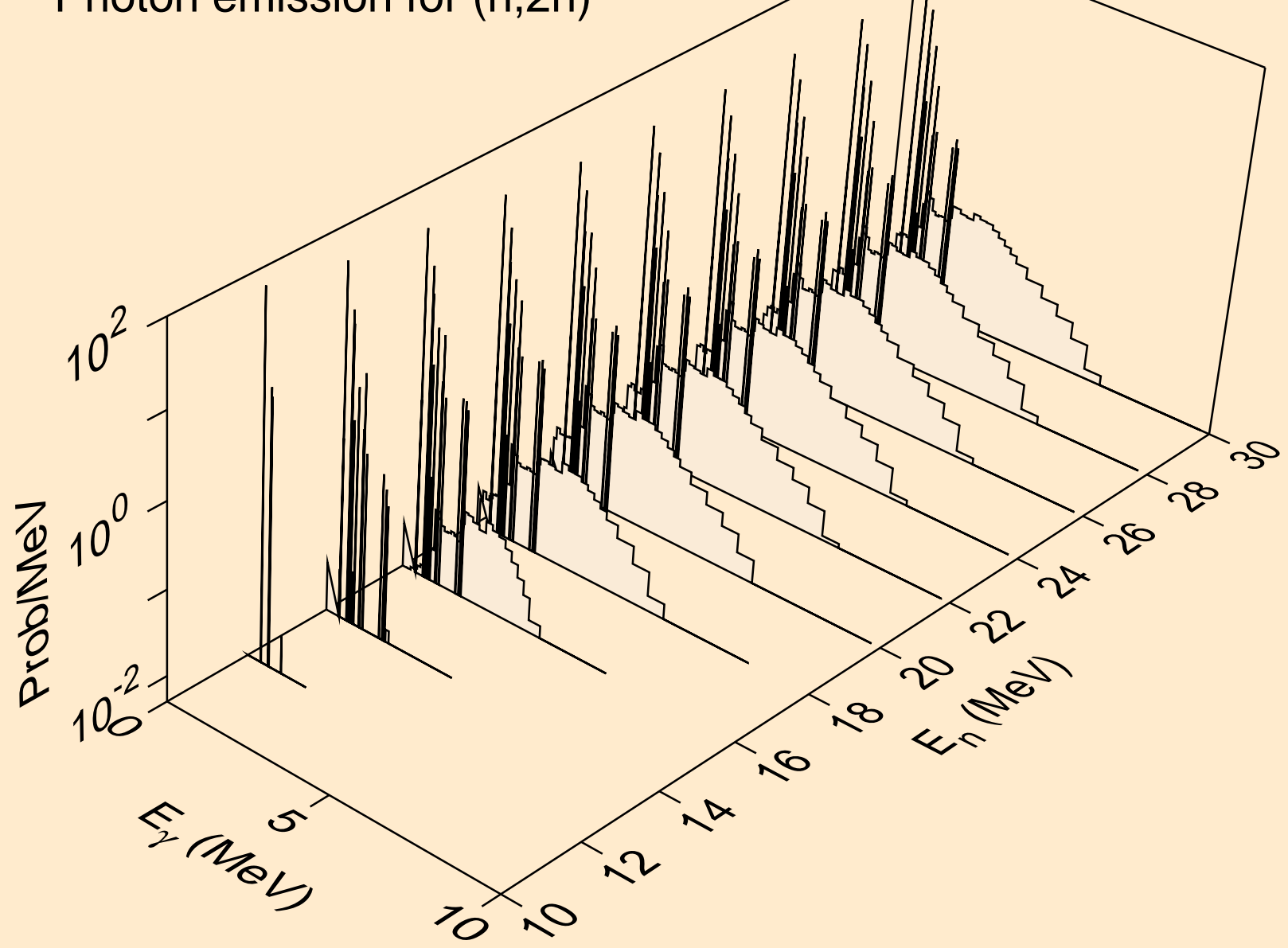
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)

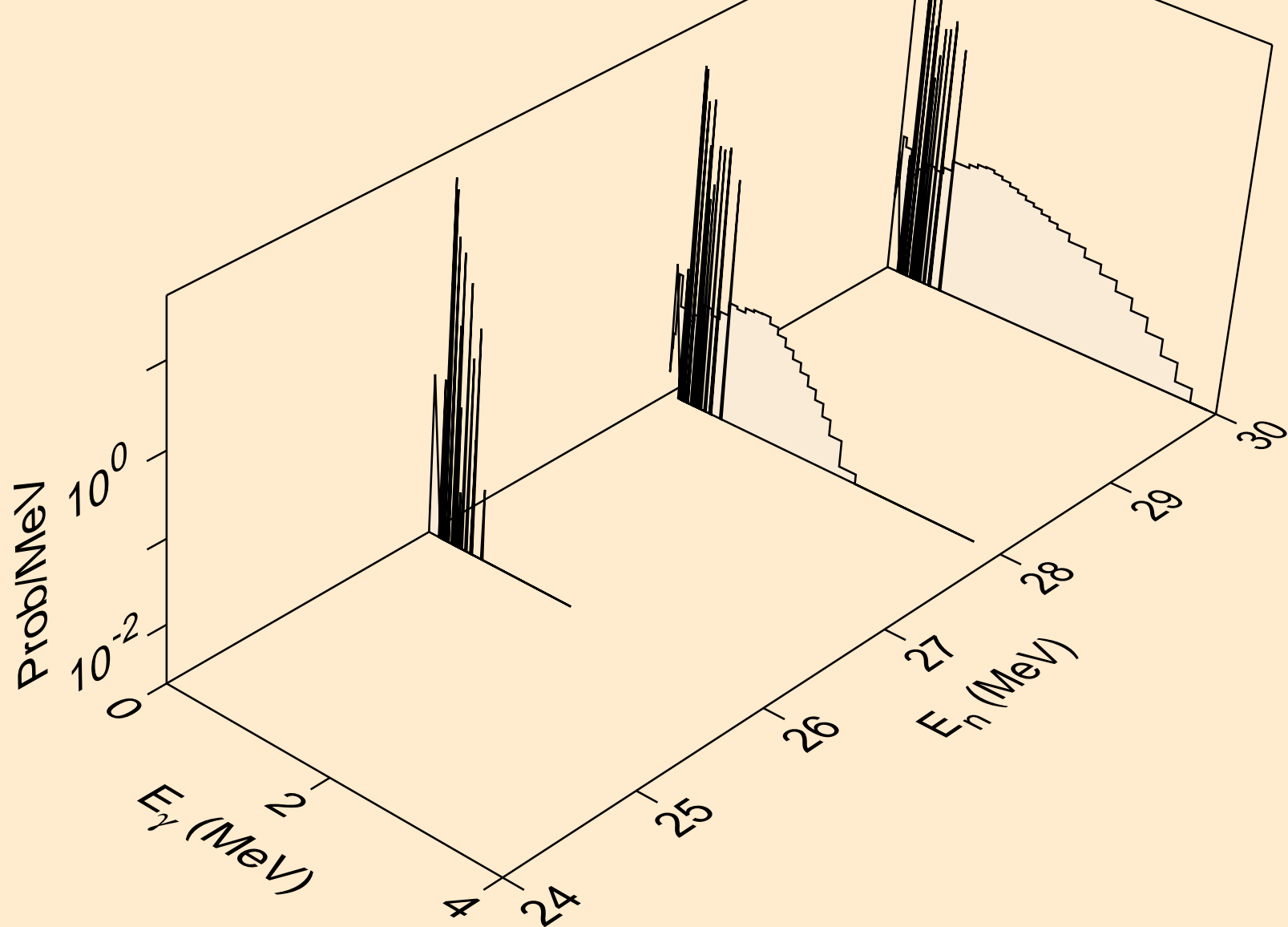


ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)

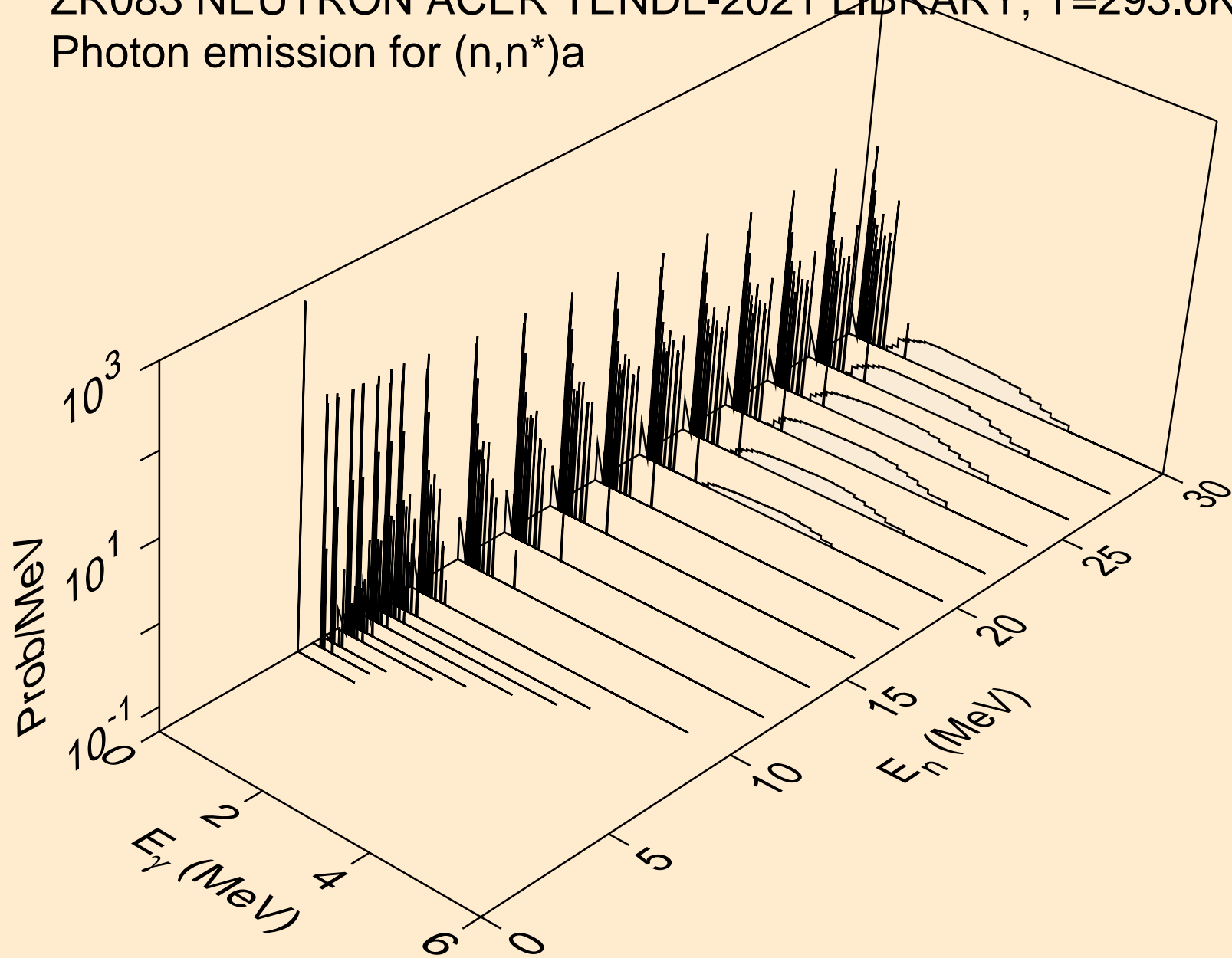




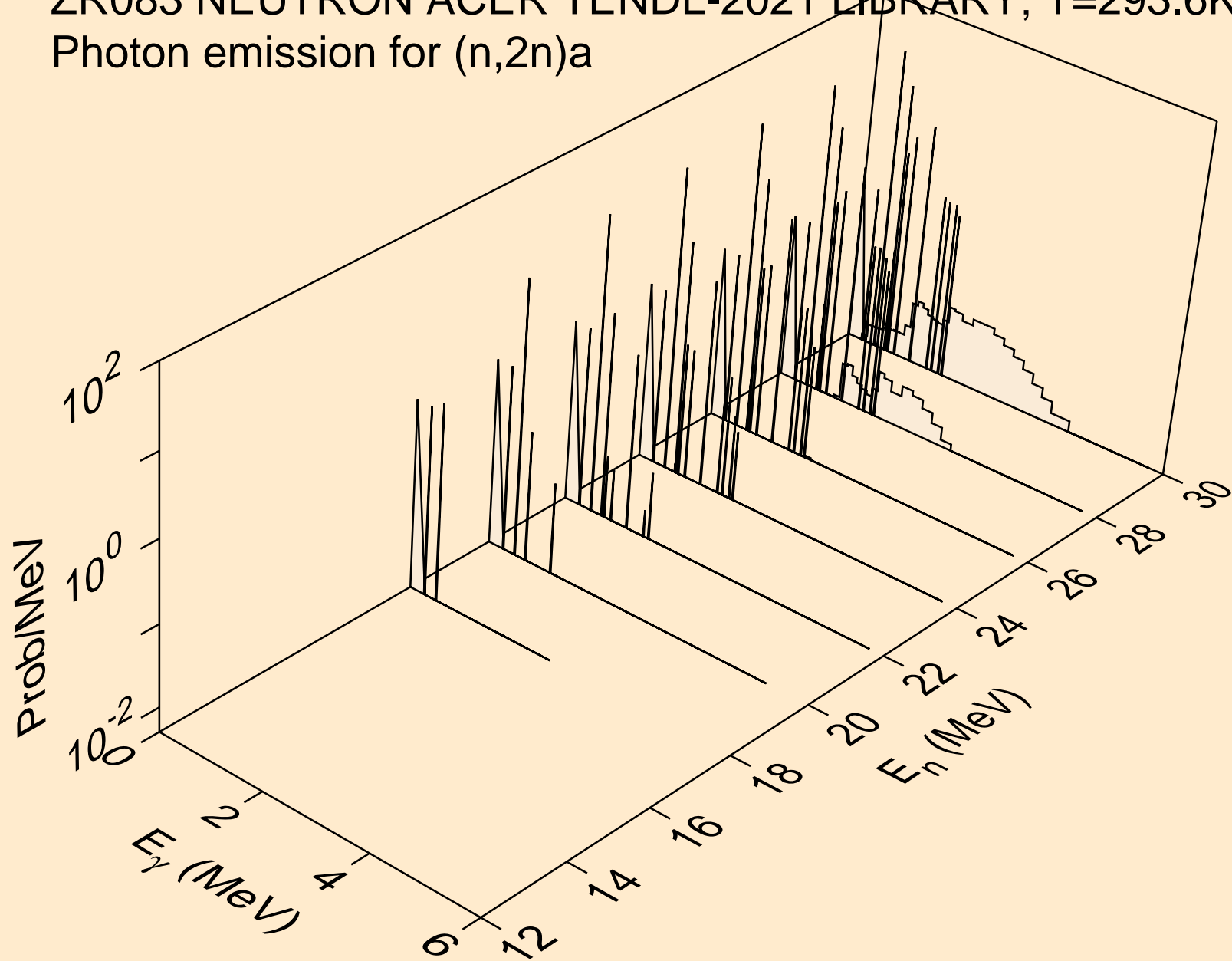
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)



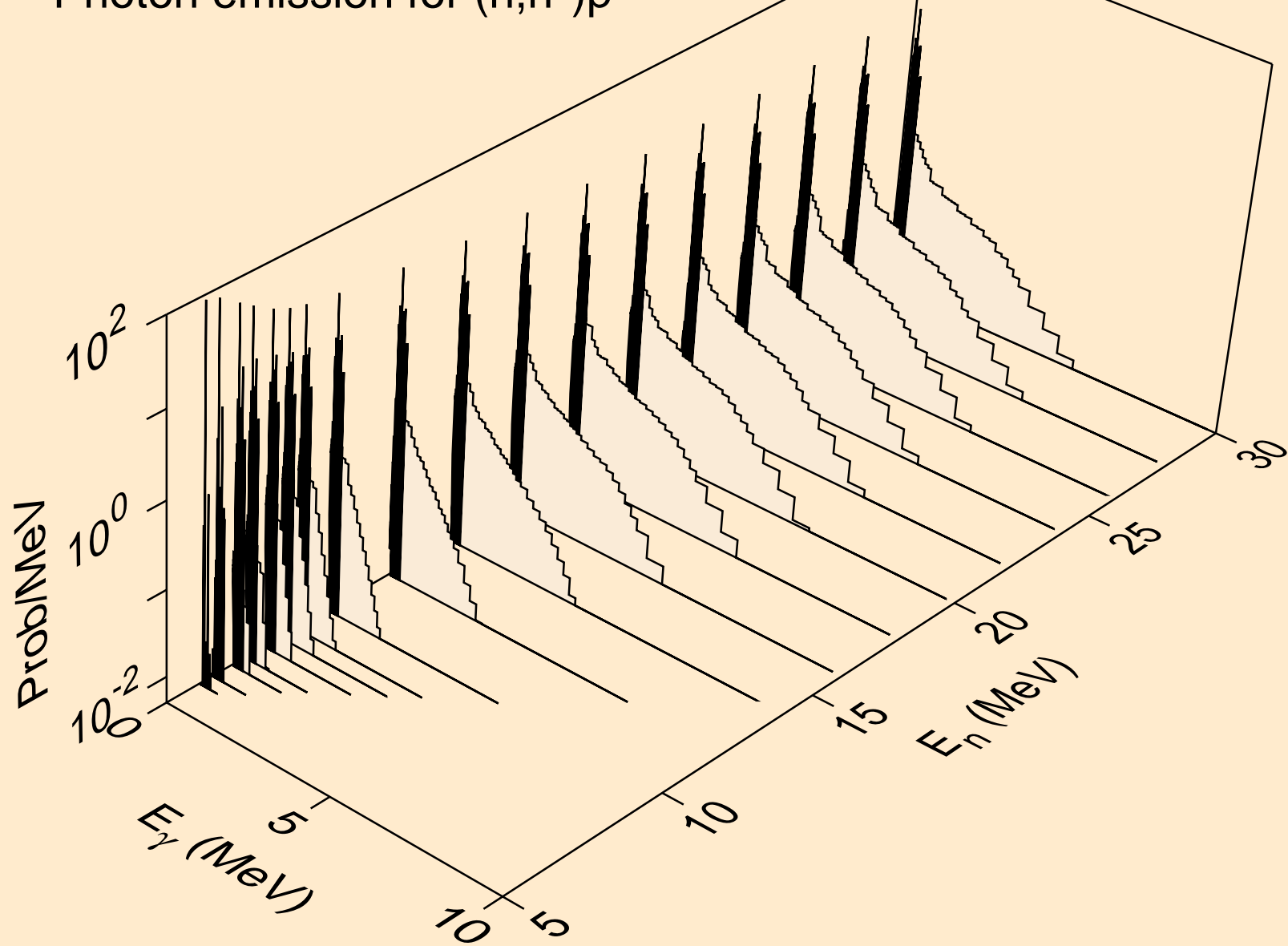
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Photon emission for (n,n\*)a



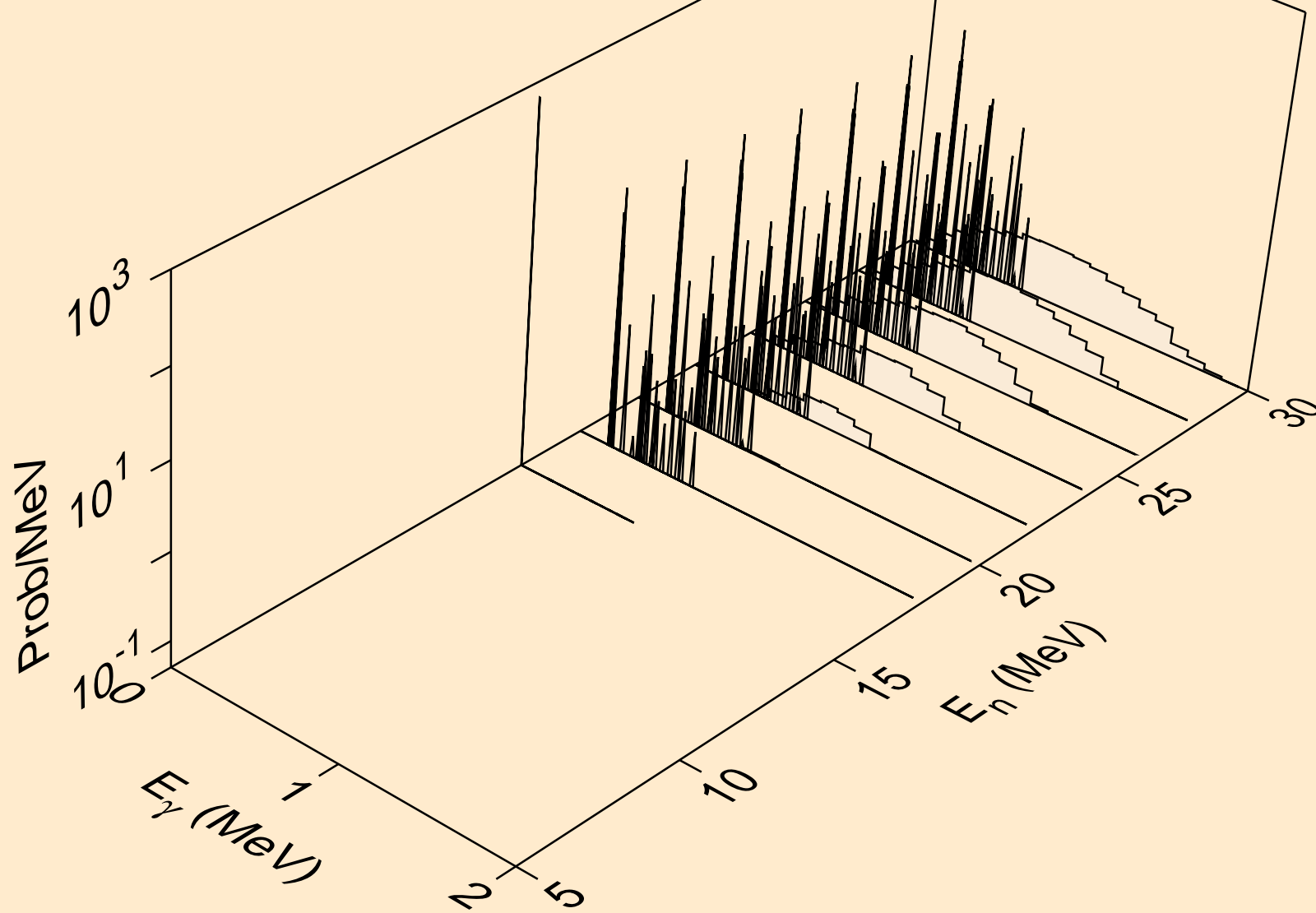
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Photon emission for (n,2n)a



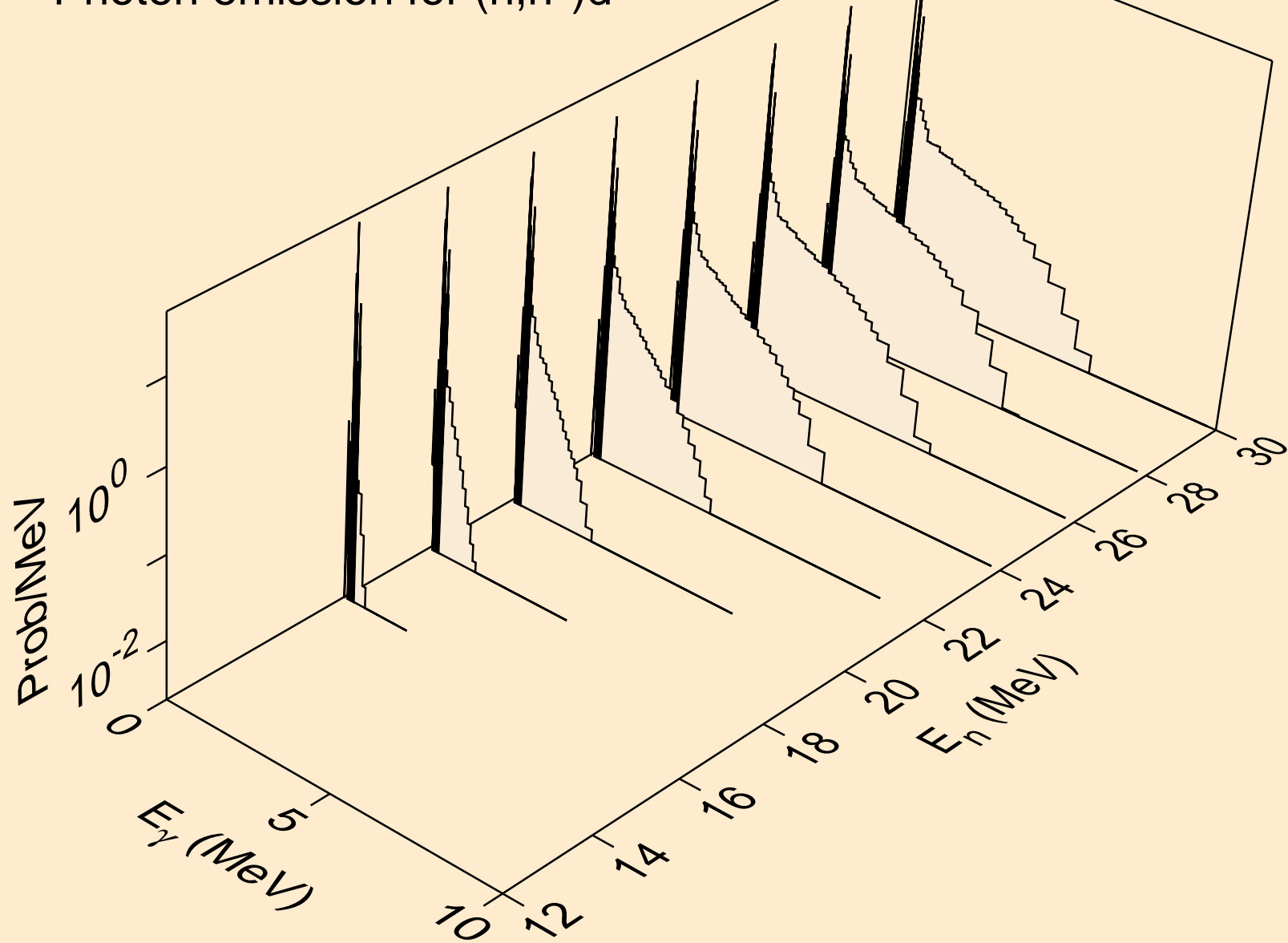
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Photon emission for (n,n\*)p



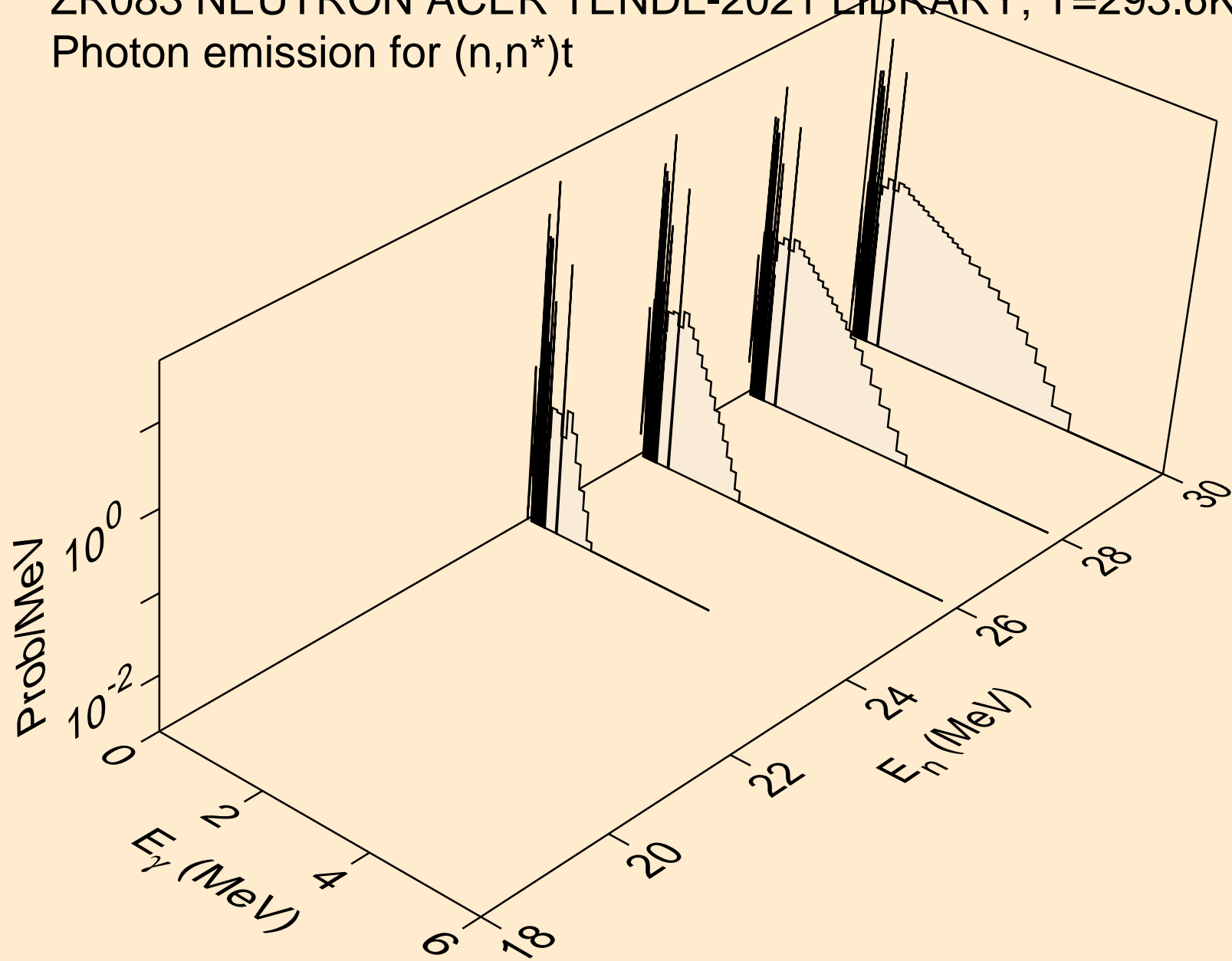
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)2a



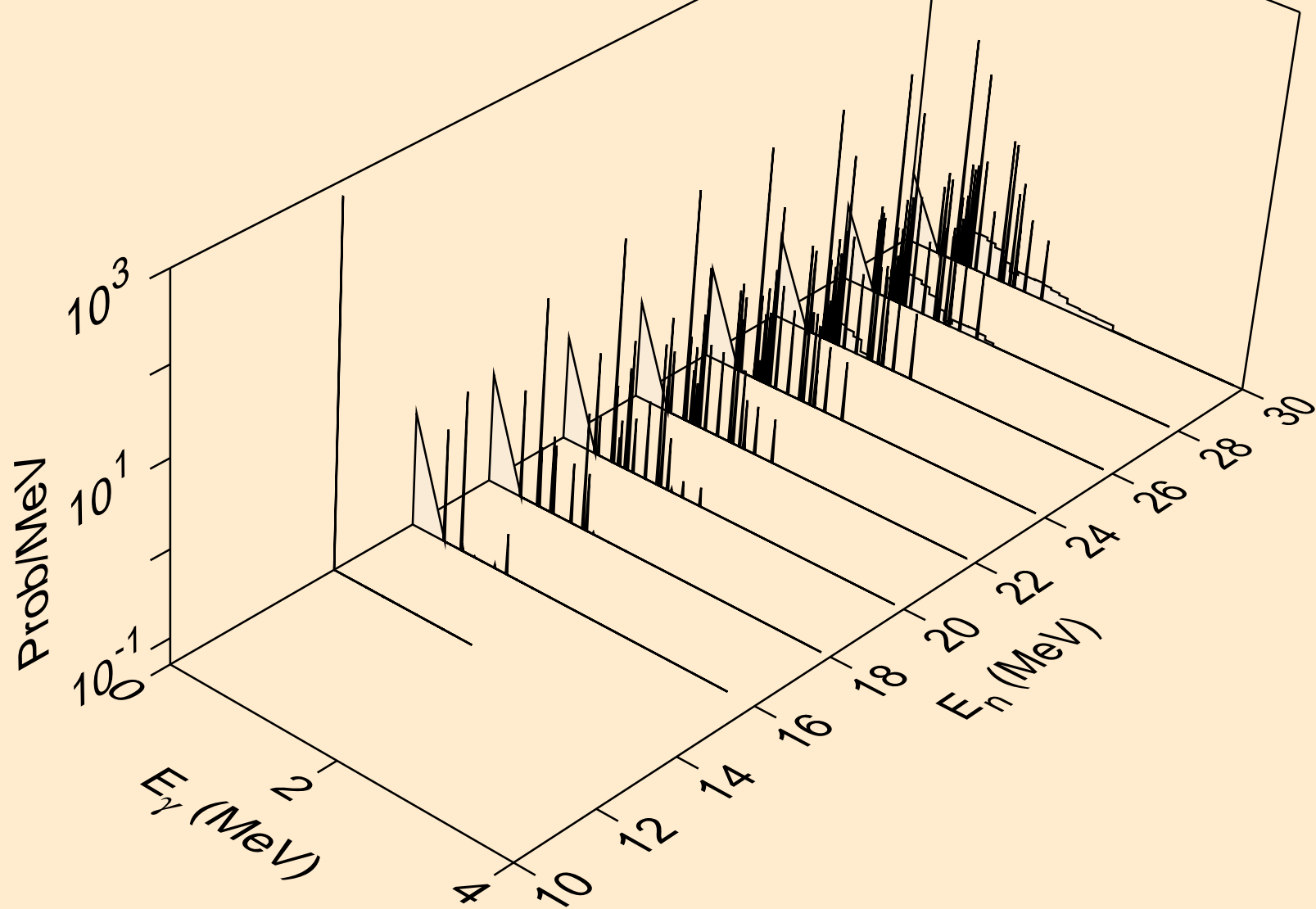
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t

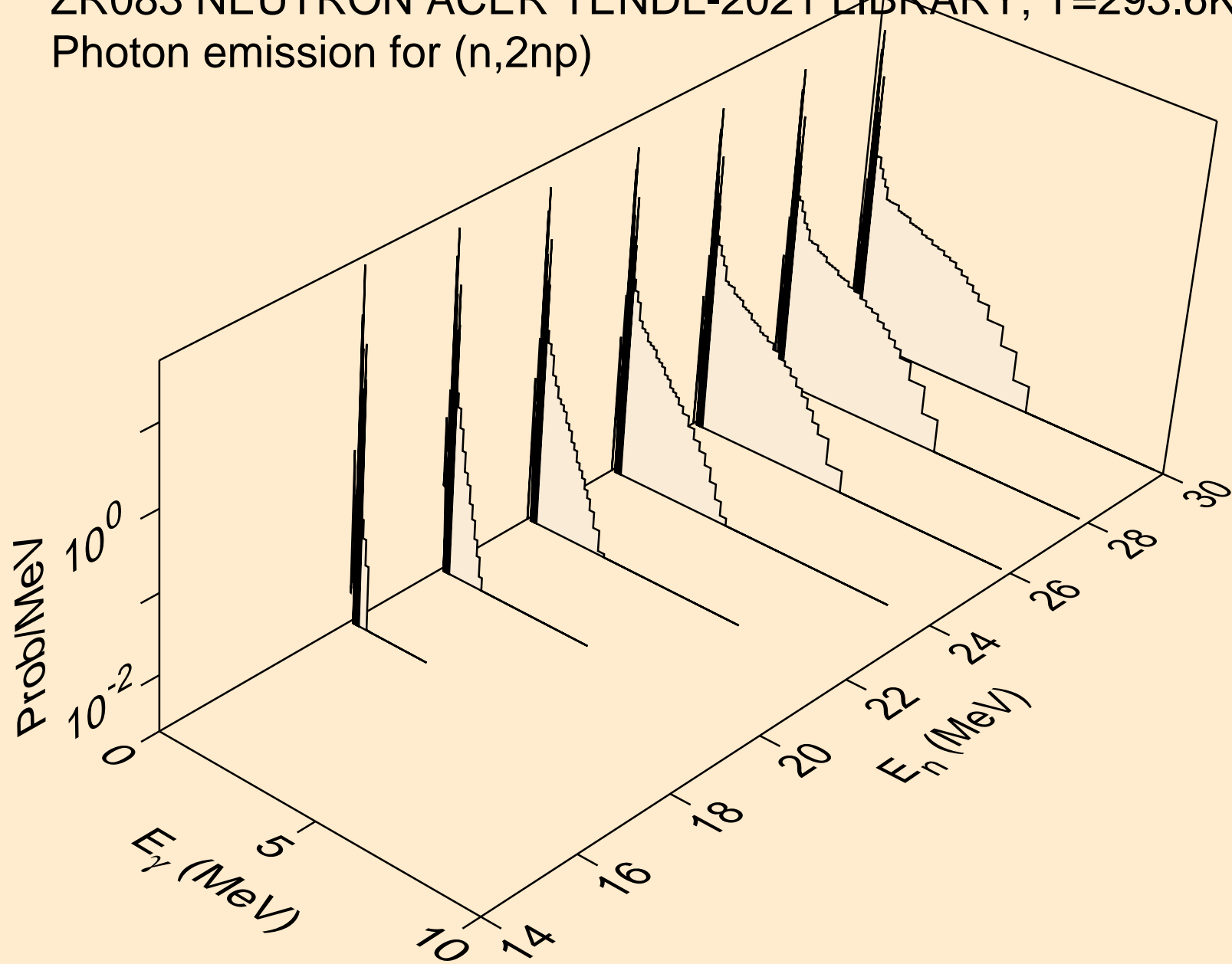


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Photon emission for (n,n\*)he3

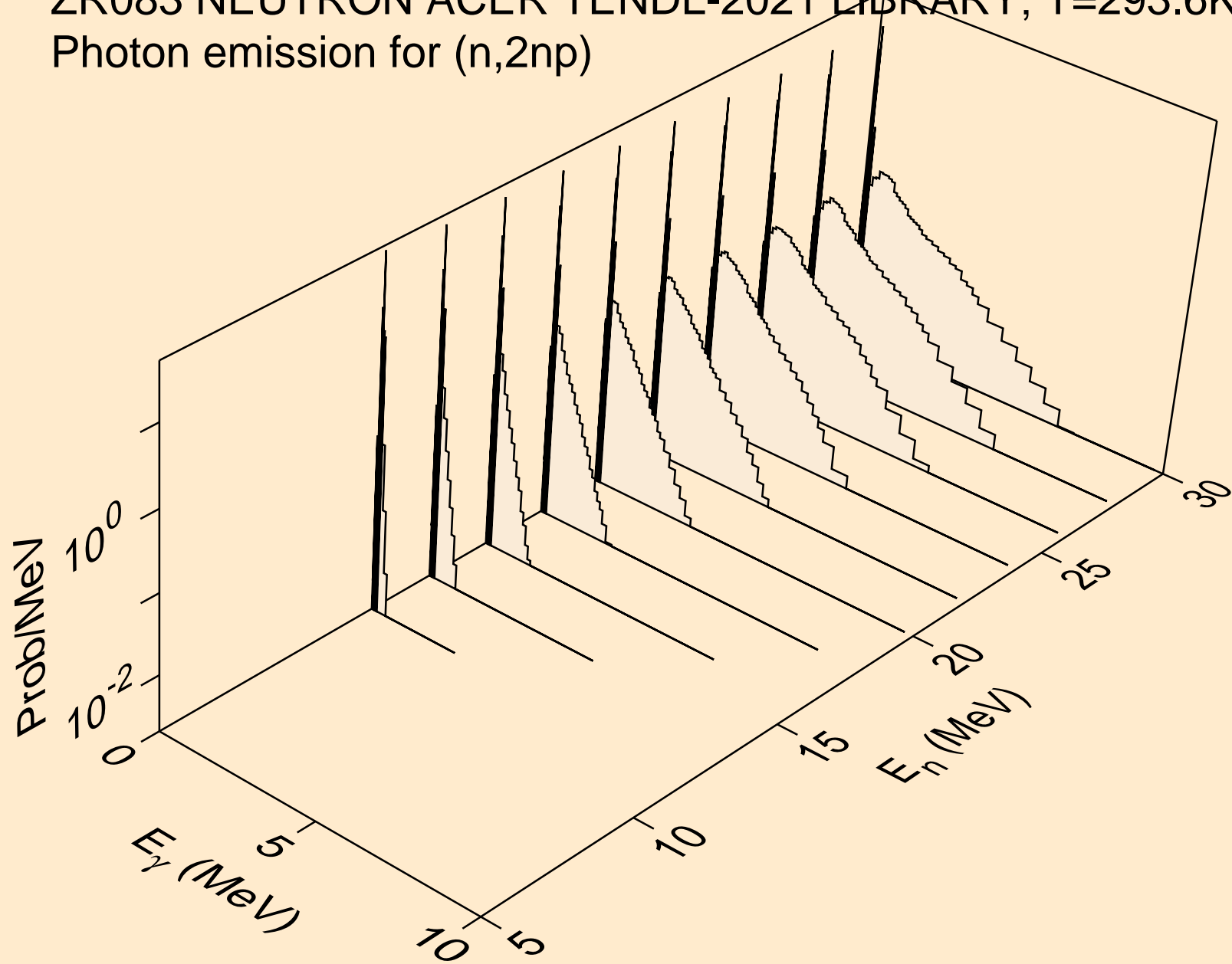




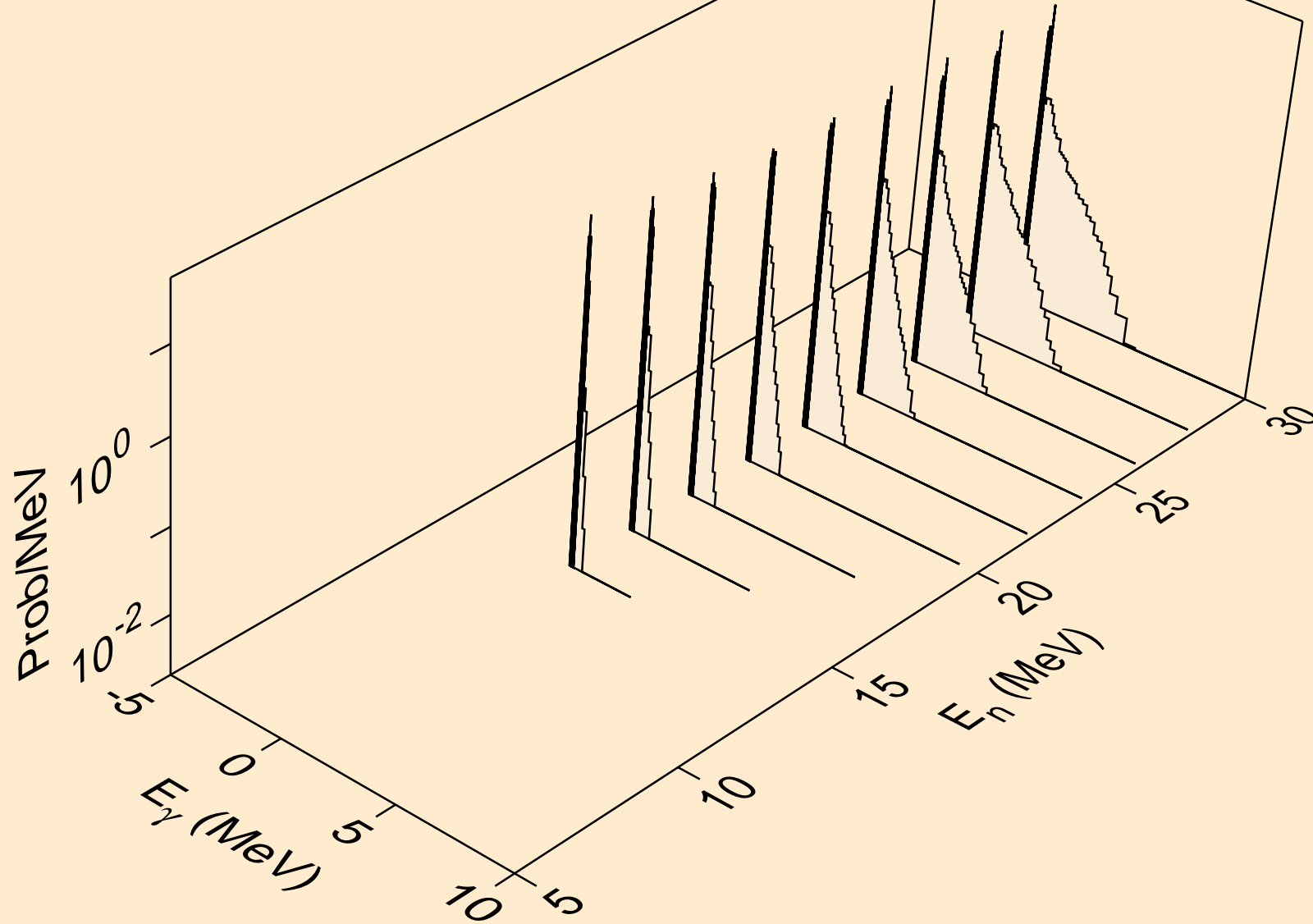
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Photon emission for (n,2np)



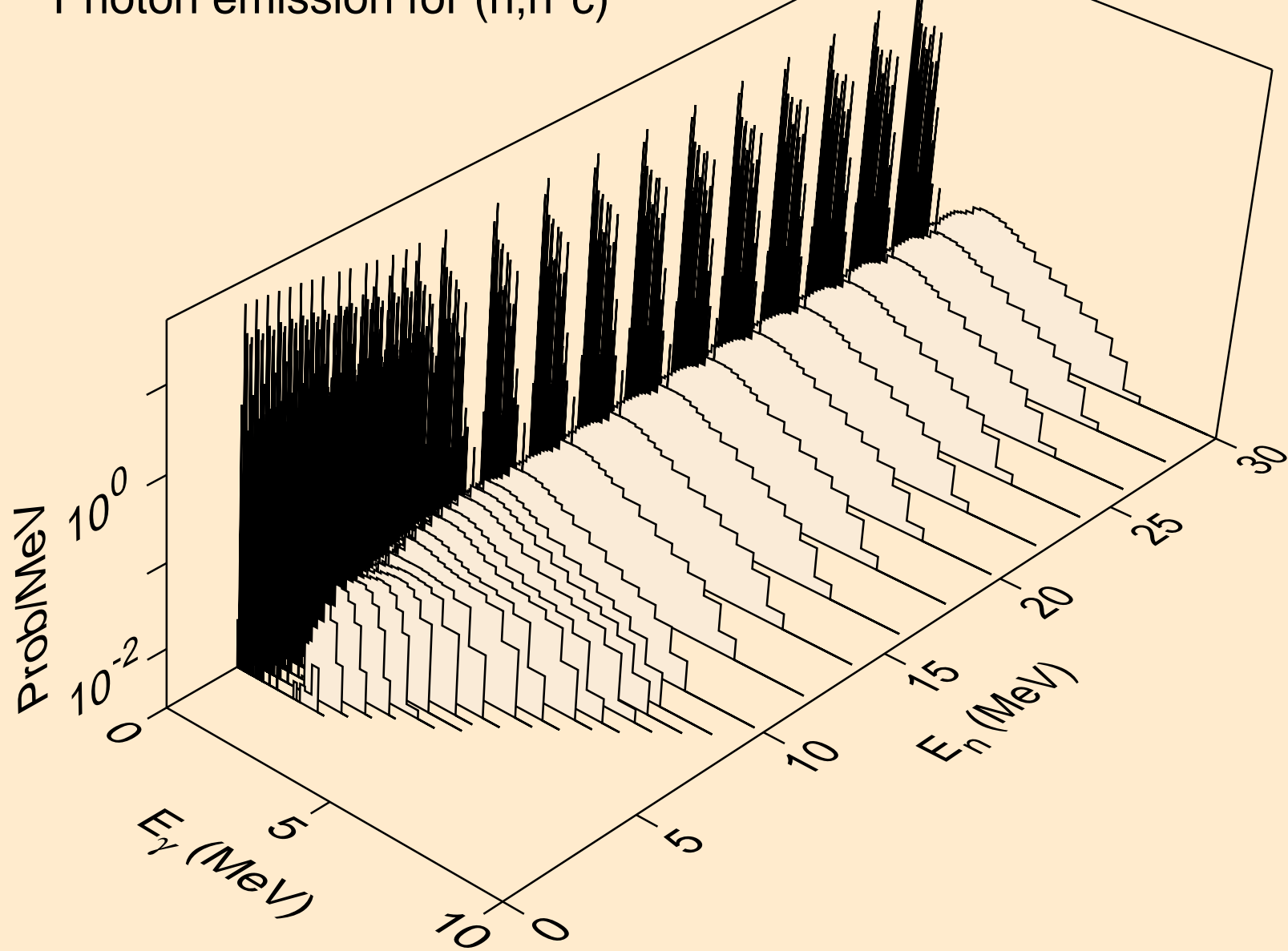
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Photon emission for (n,2np)



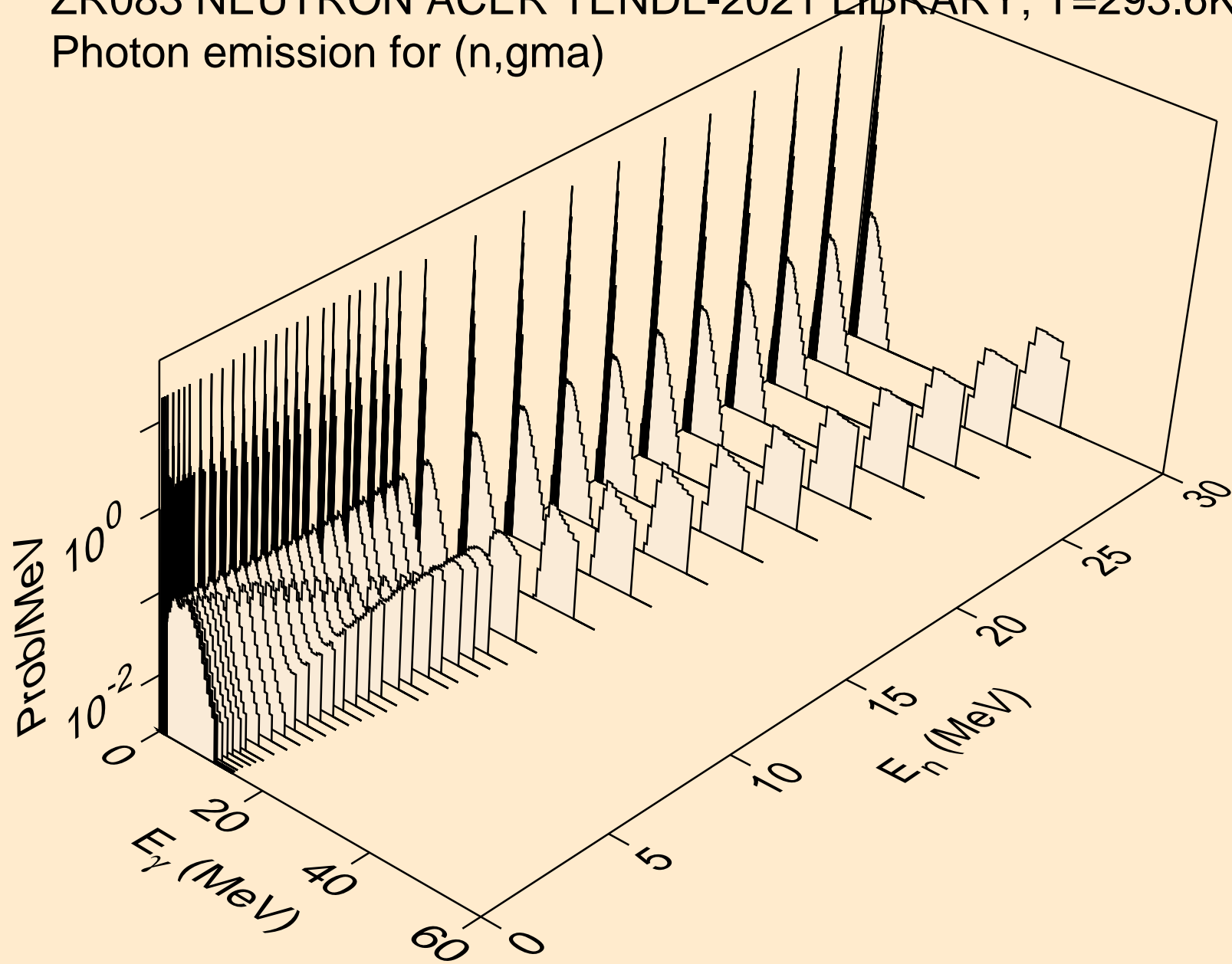
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Photon emission for (n,npa)



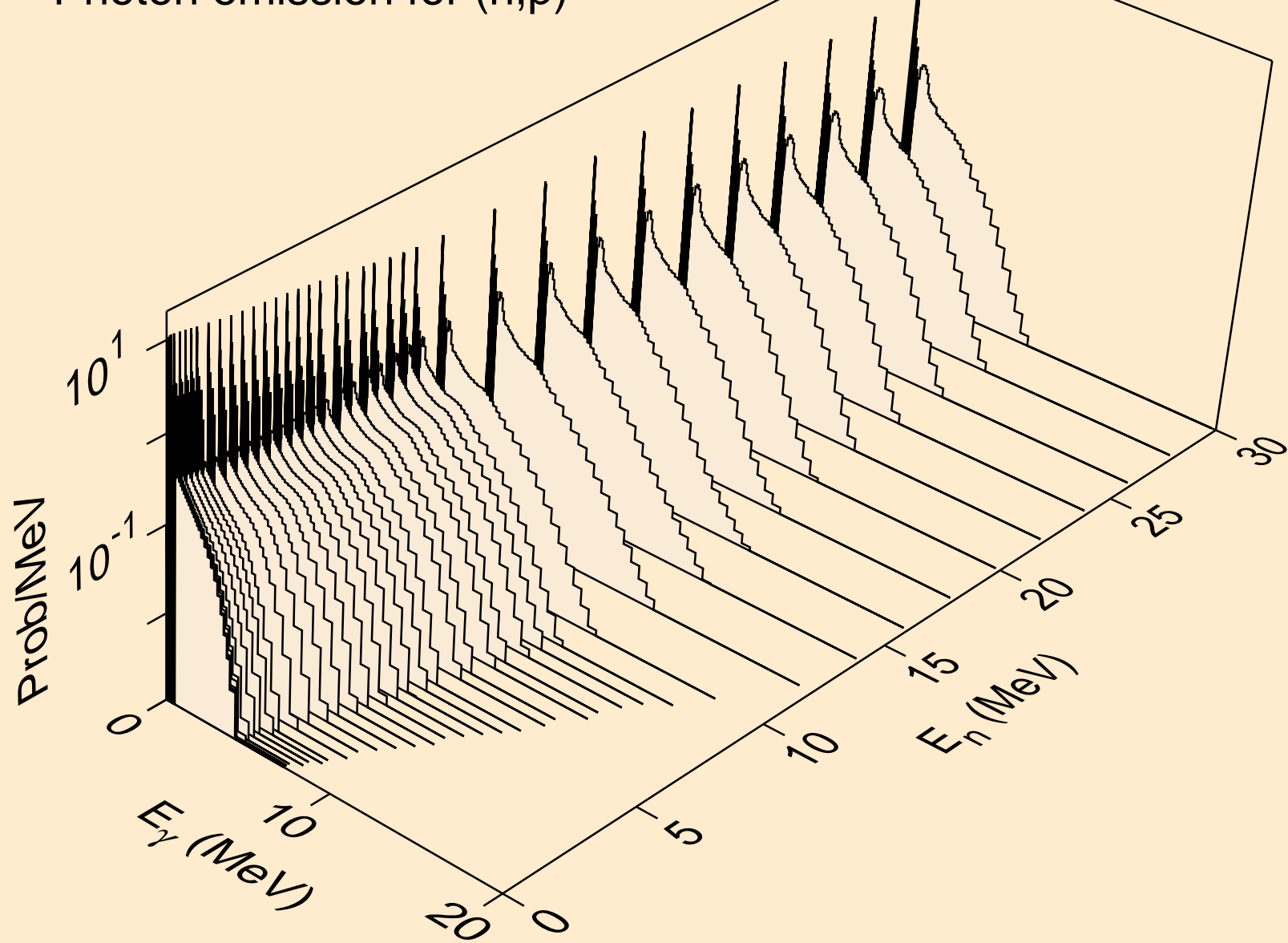
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)



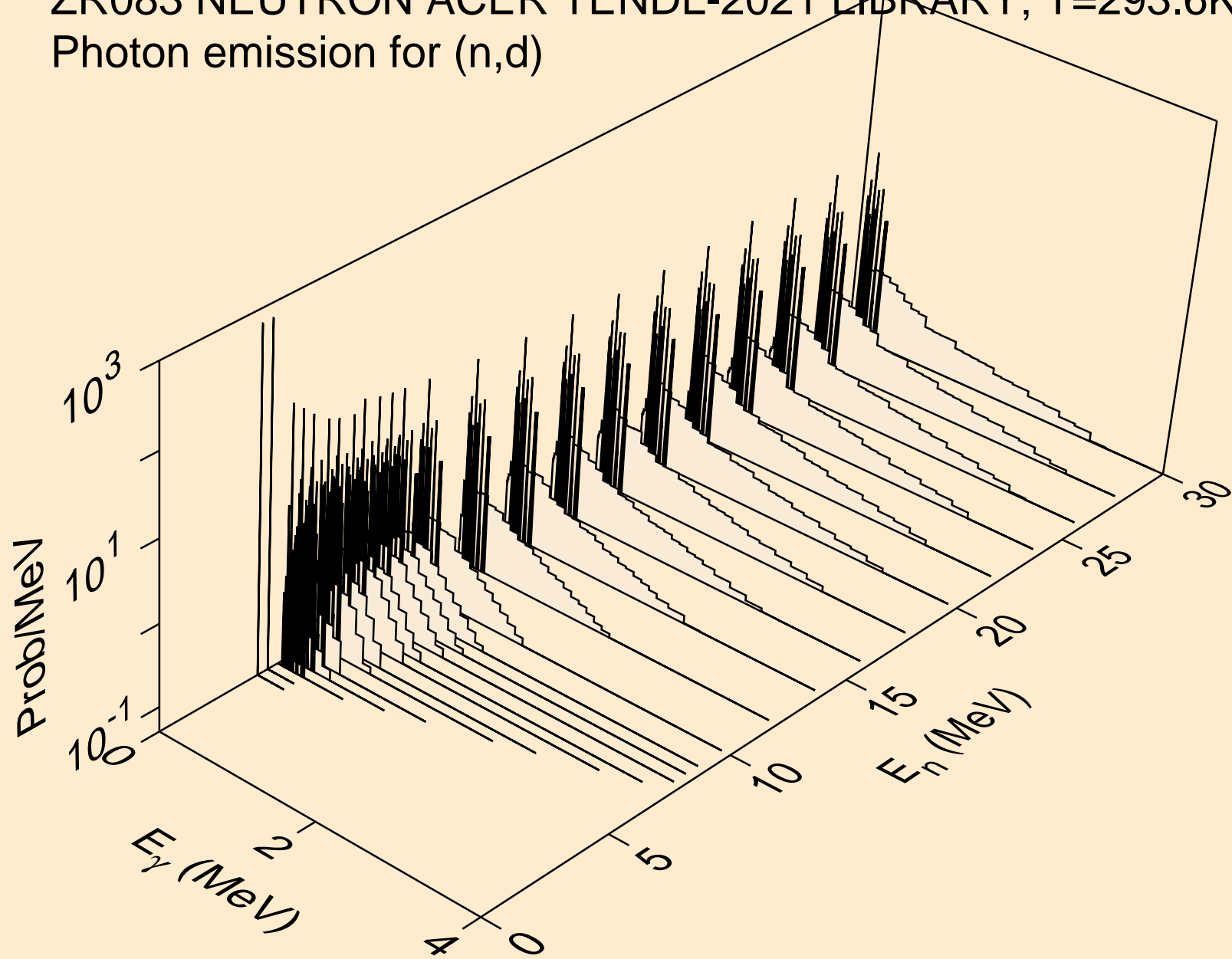
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Photon emission for (n,gma)



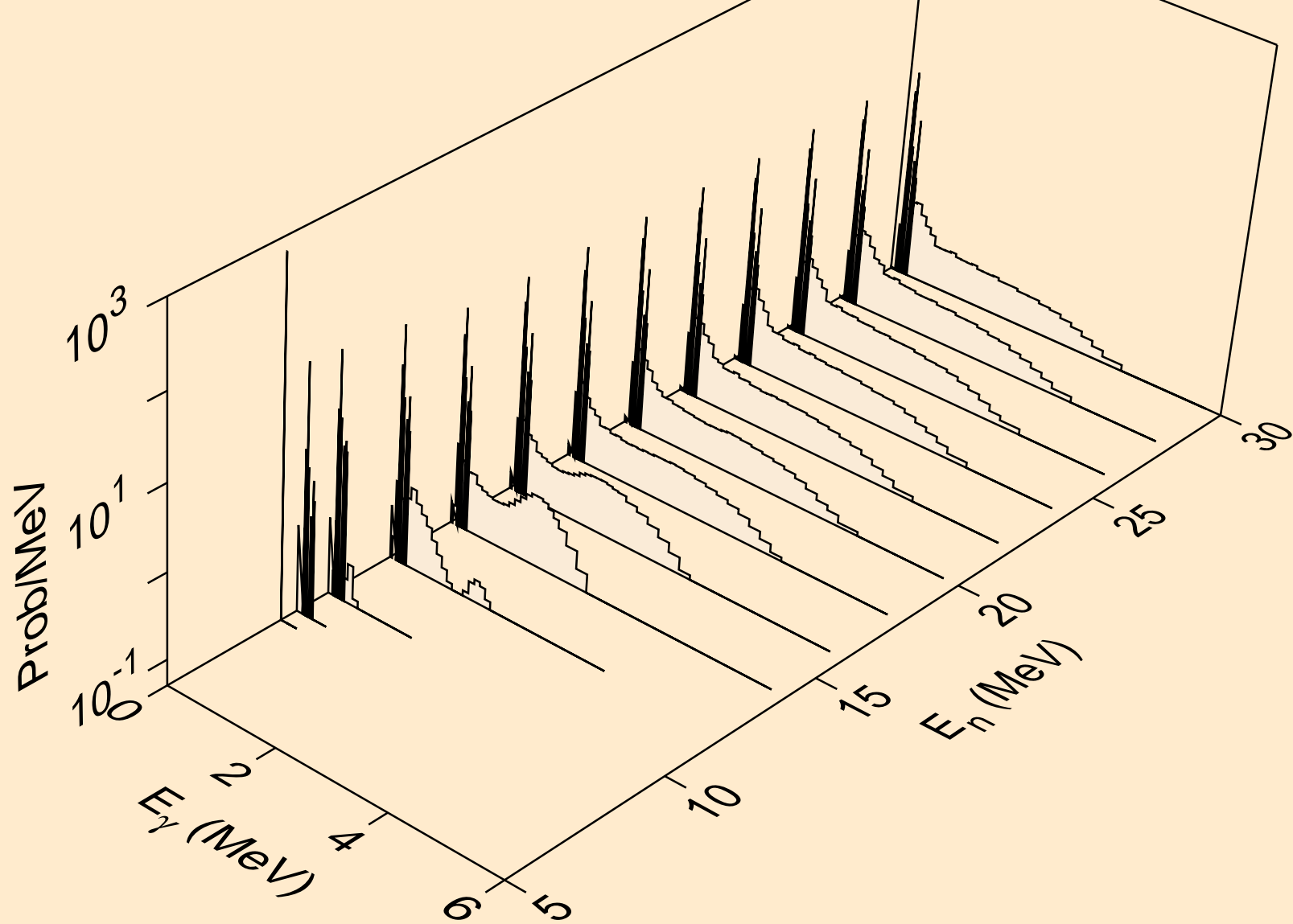
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,d)

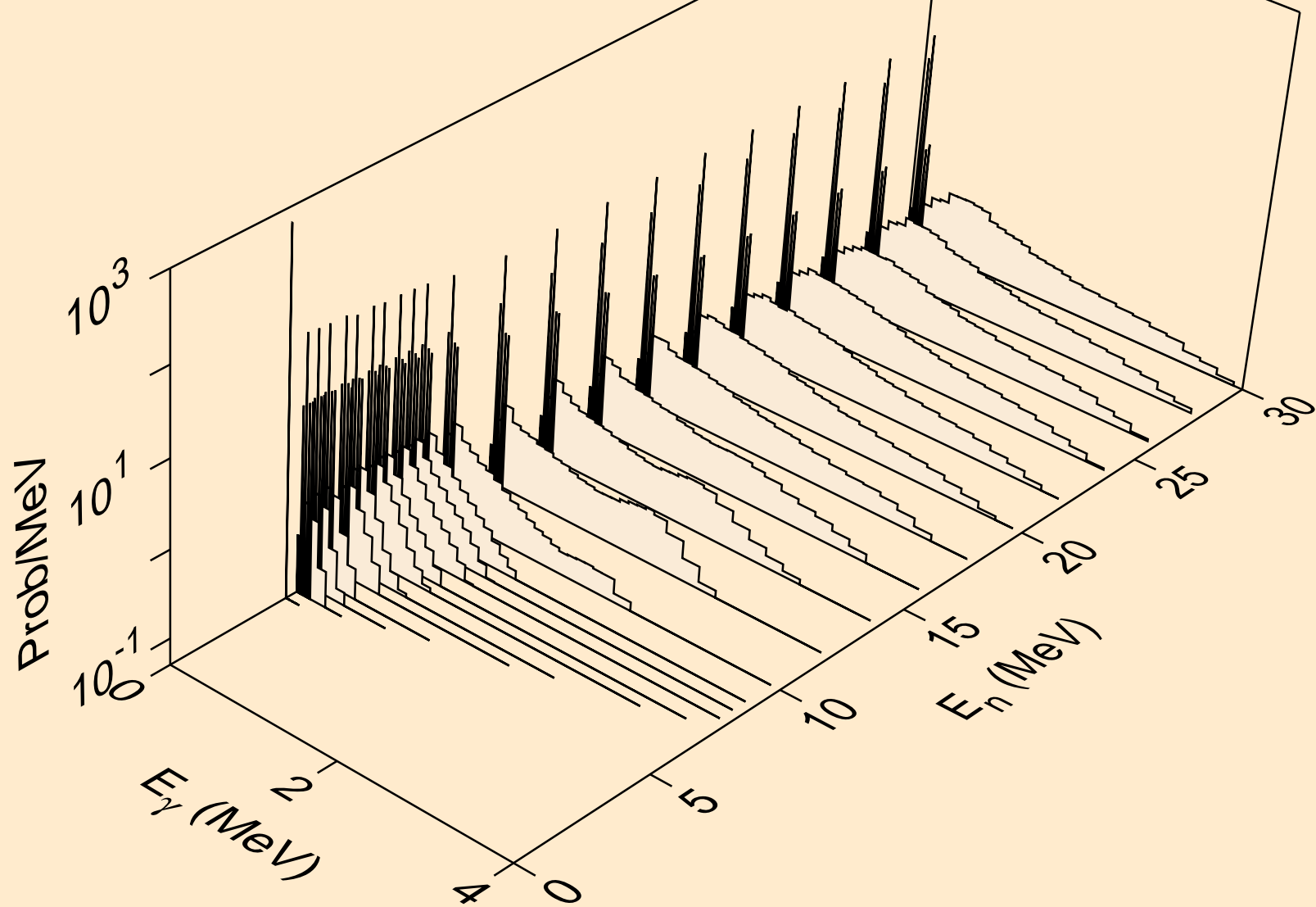


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Photon emission for (n,t)

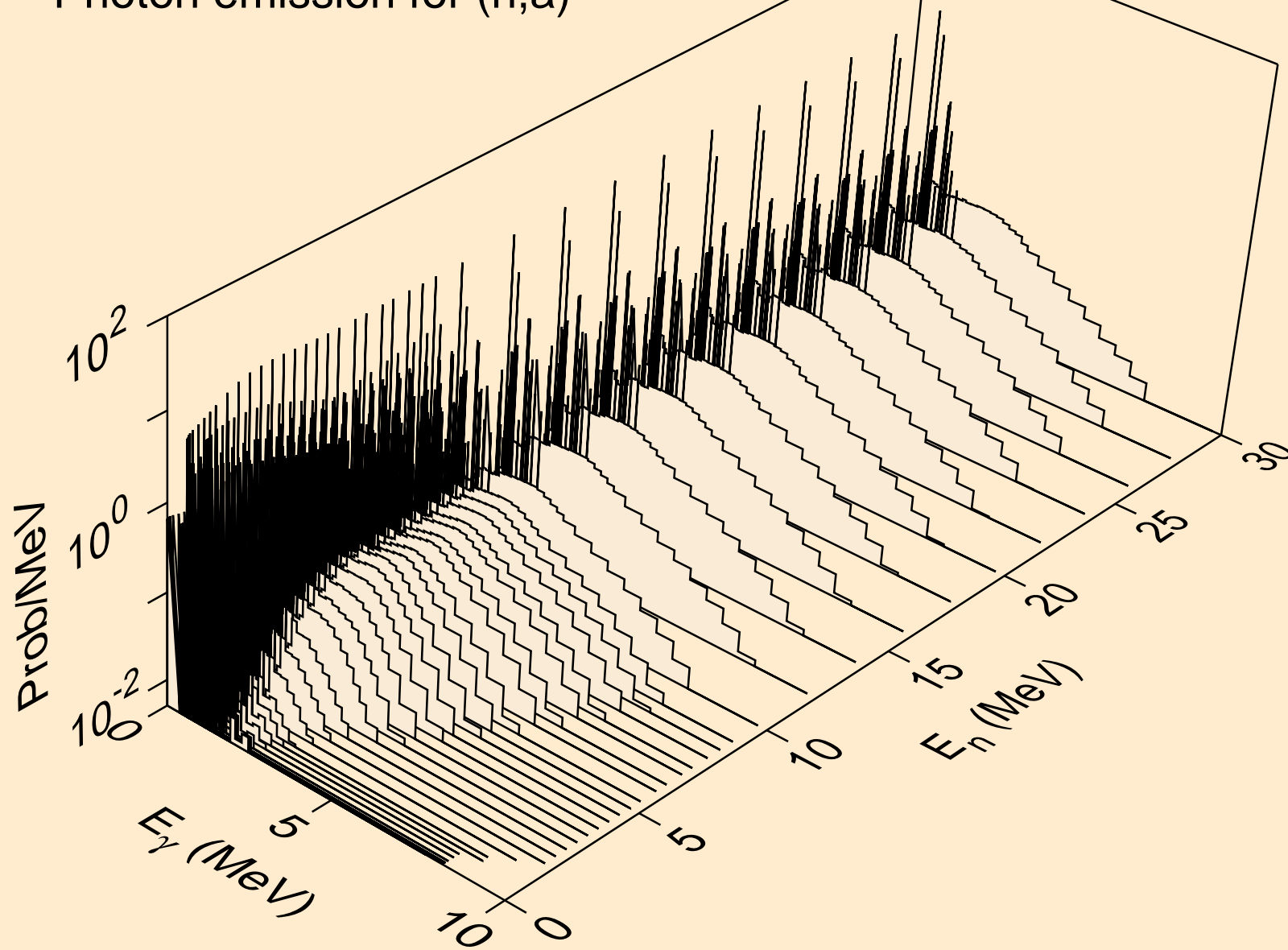




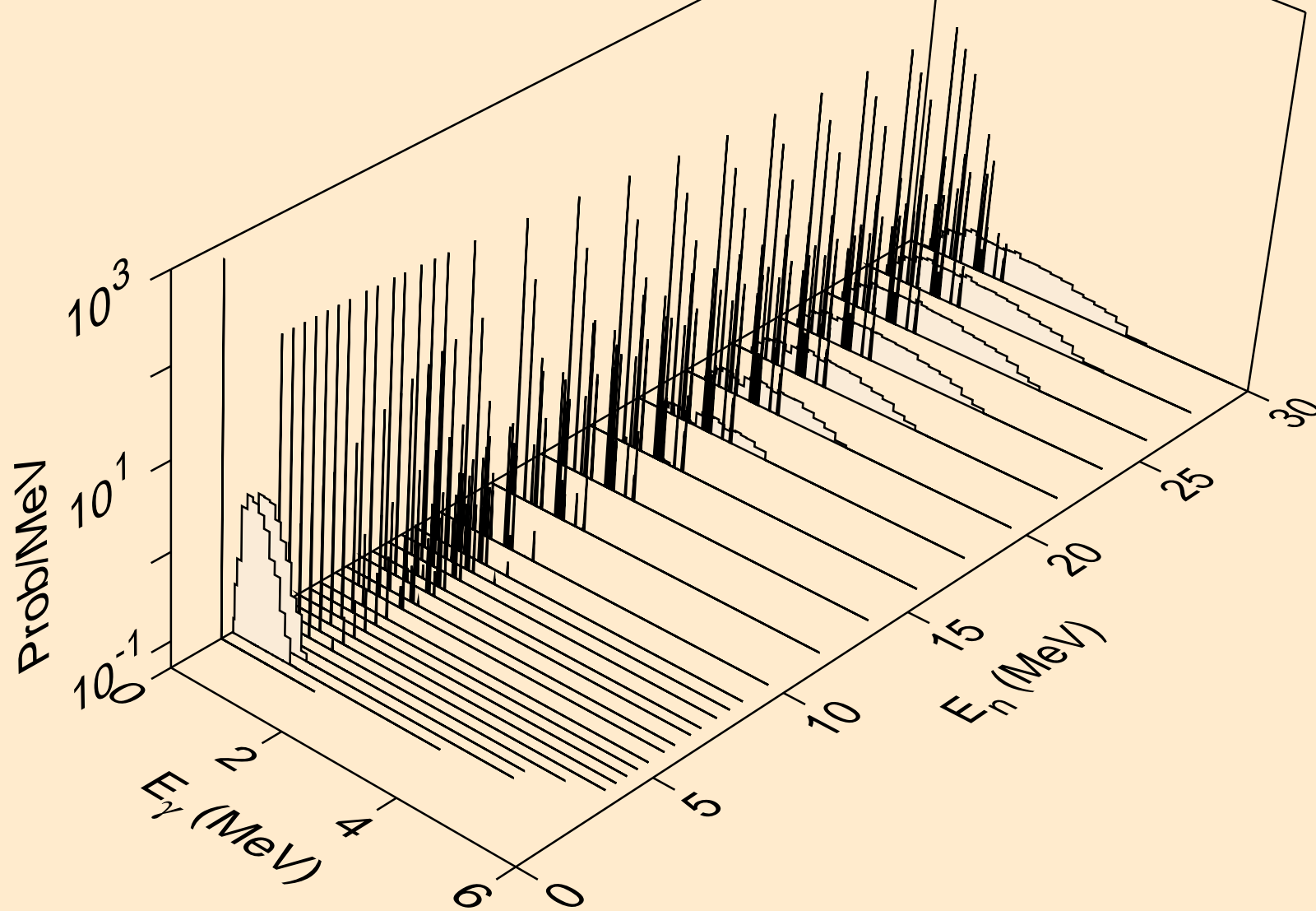
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Photon emission for (n,he3)



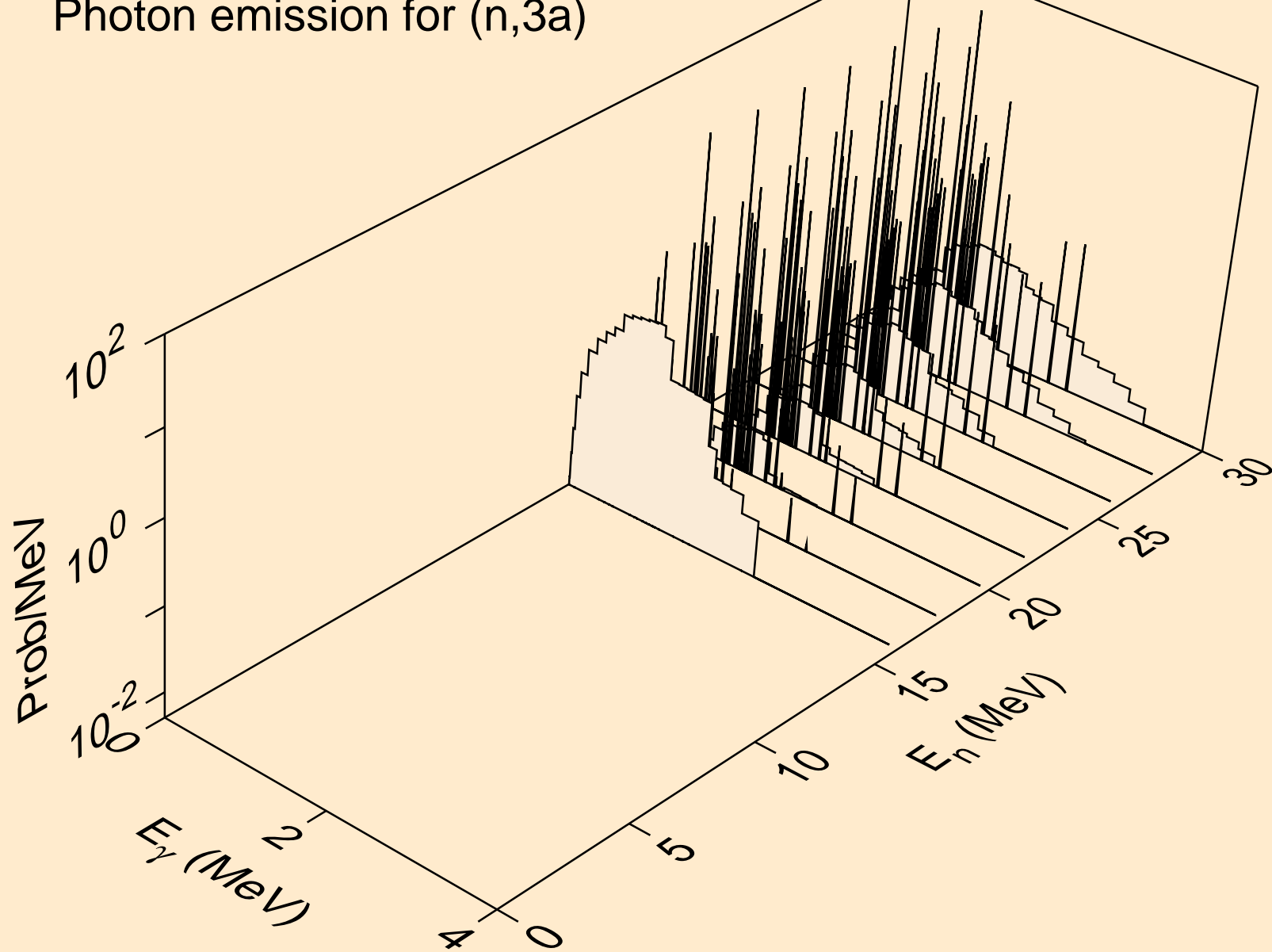
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Photon emission for (n,a)



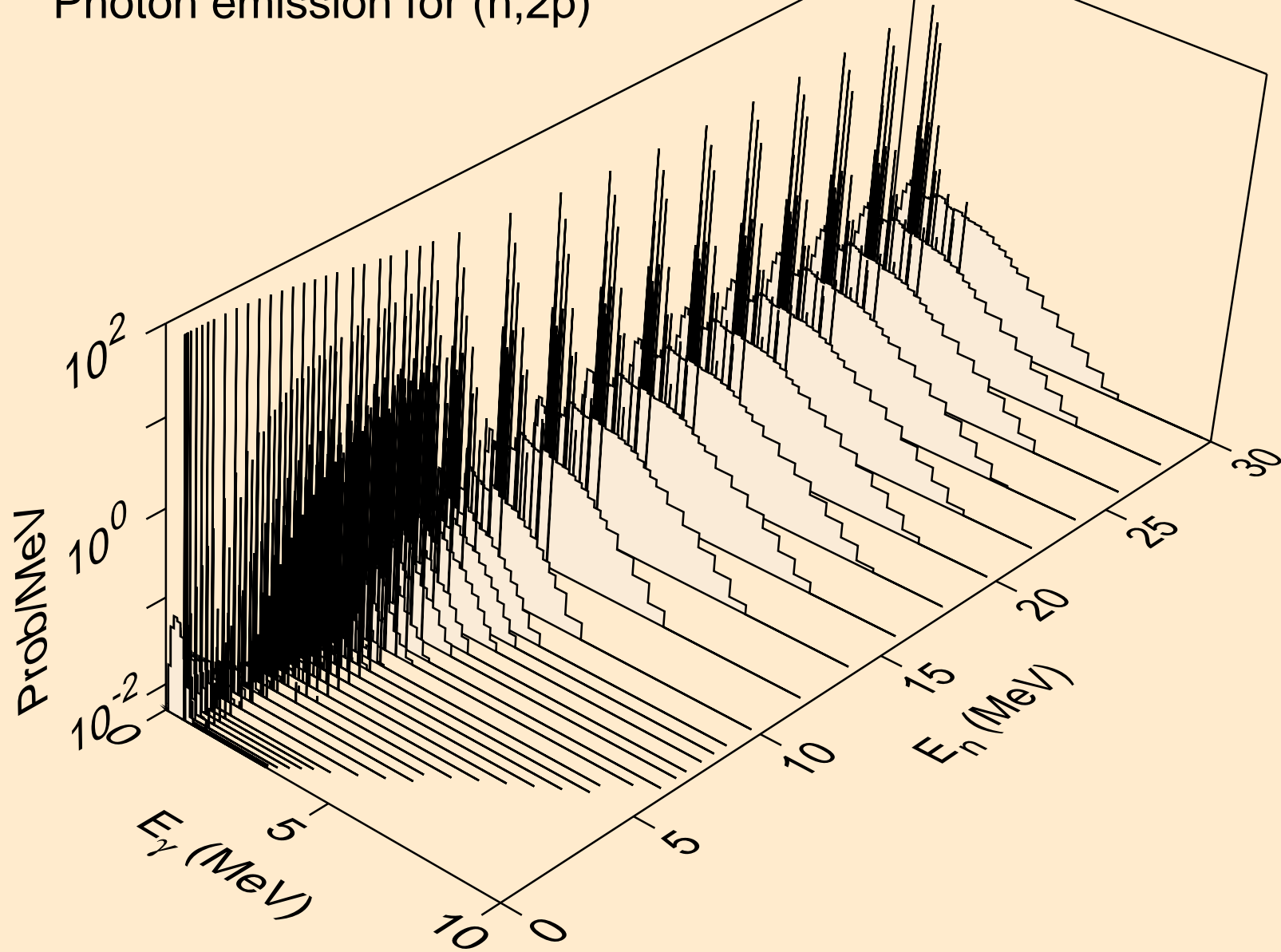
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Photon emission for (n,2a)



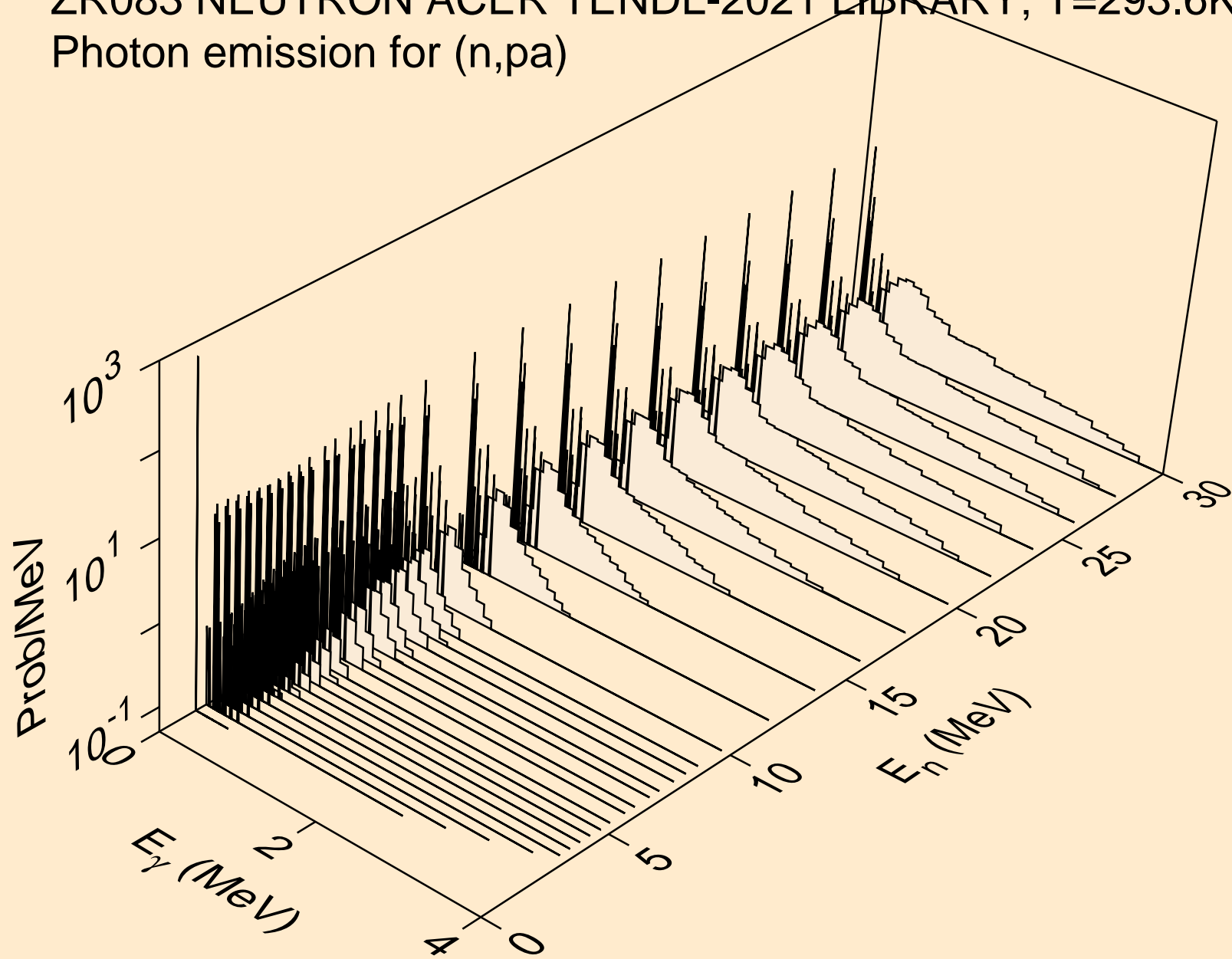
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Photon emission for (n,3a)



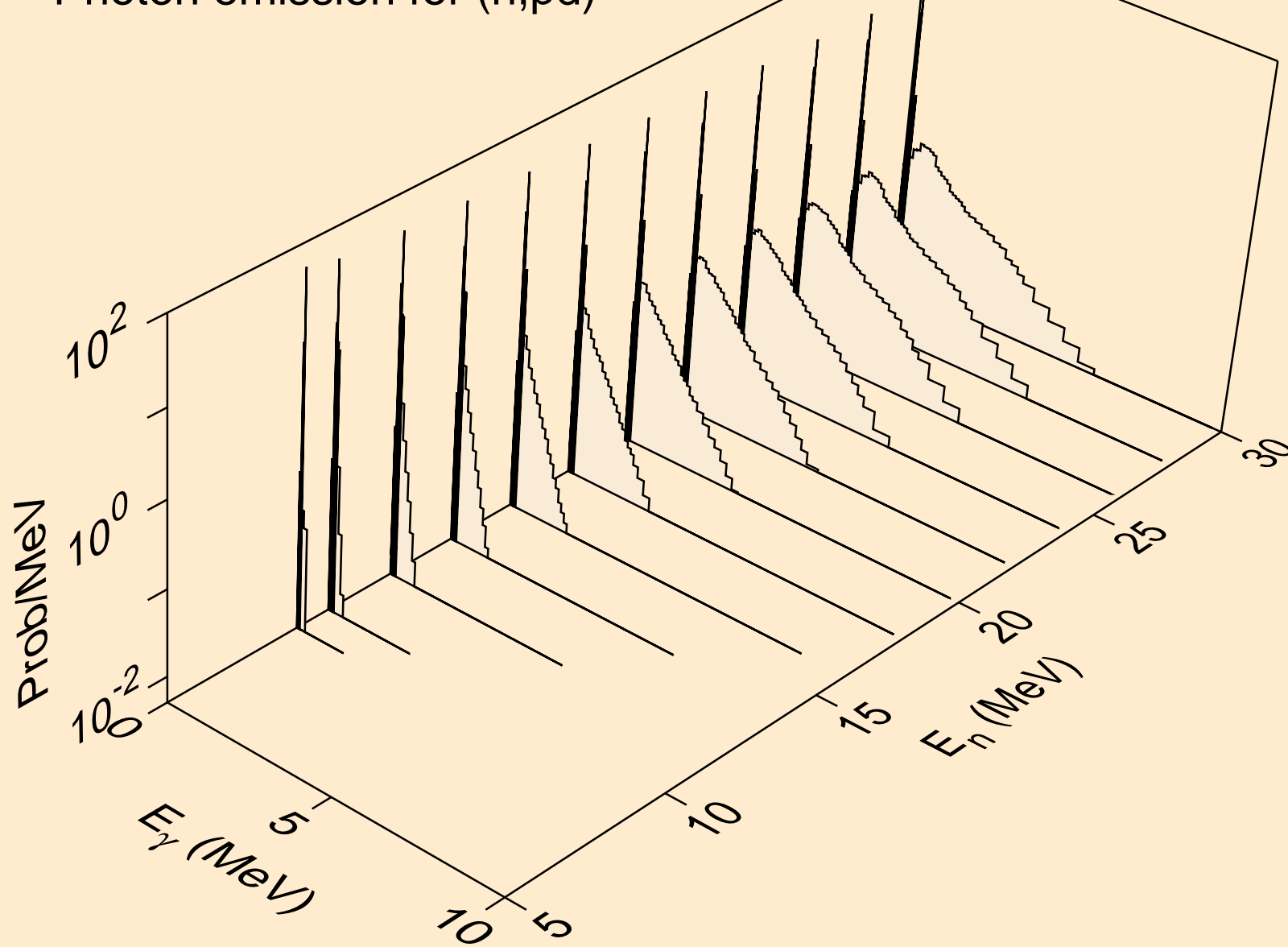
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Photon emission for (n,2p)



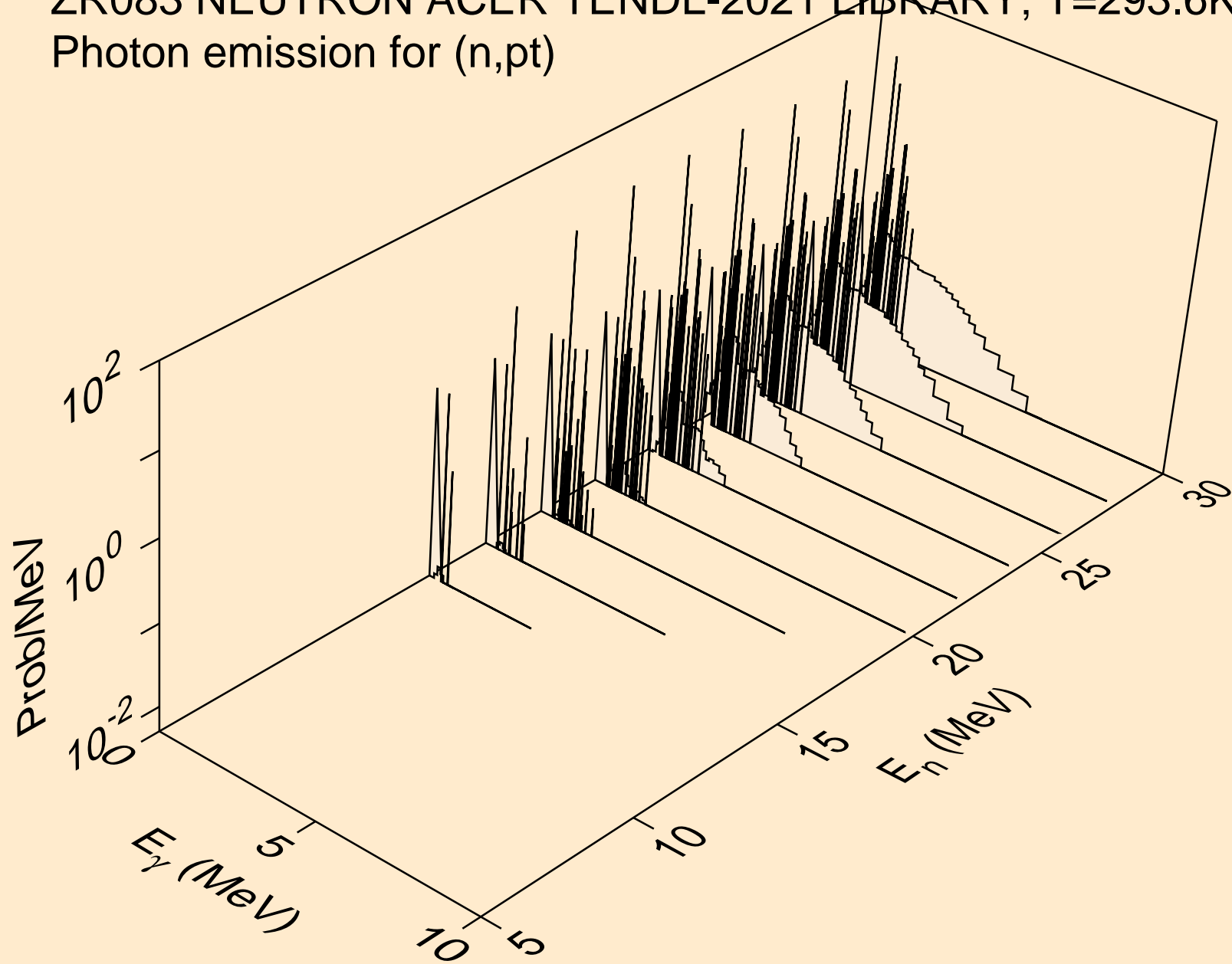
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Photon emission for (n,p $\alpha$ )



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pd)

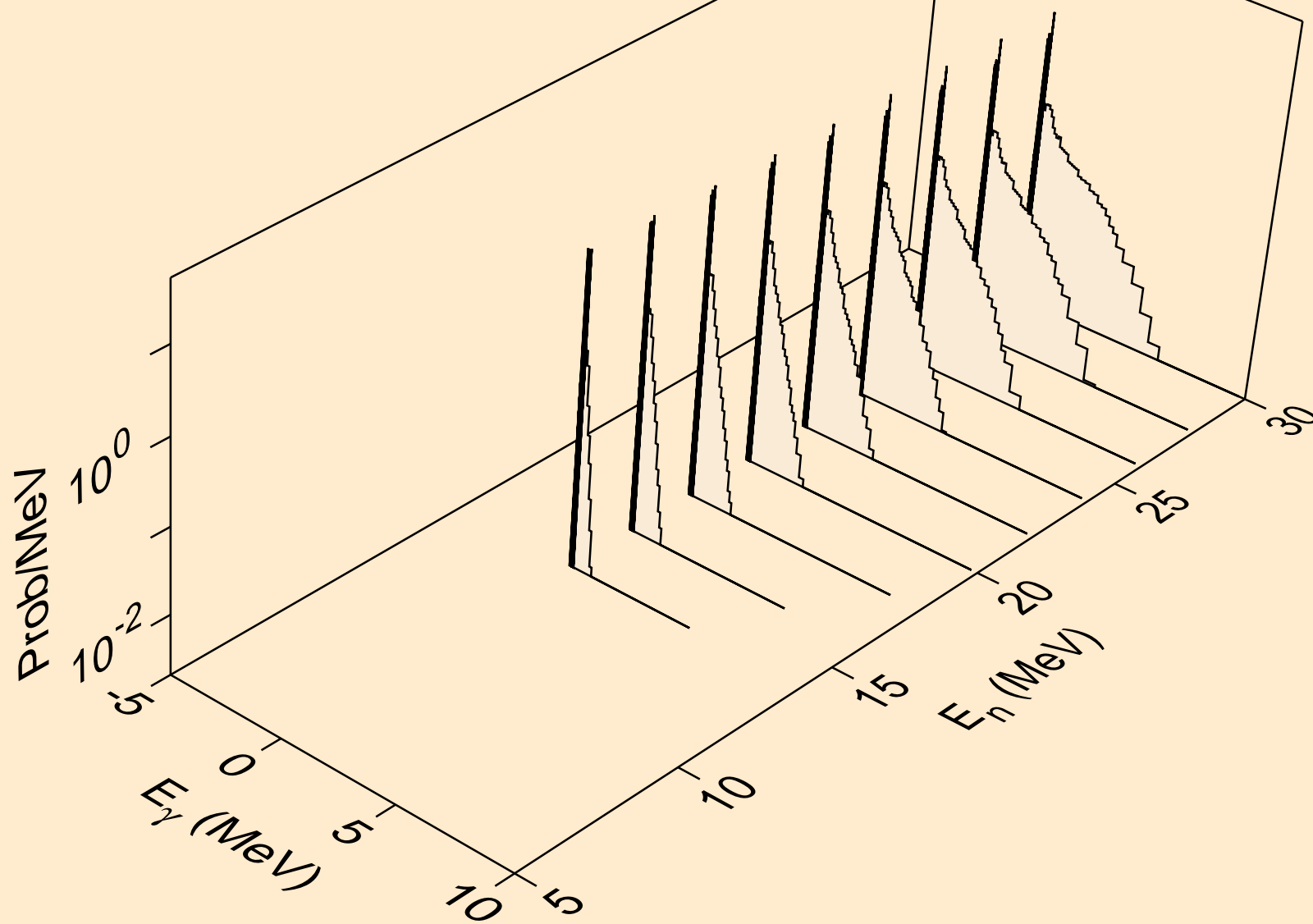


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Photon emission for (n,pt)

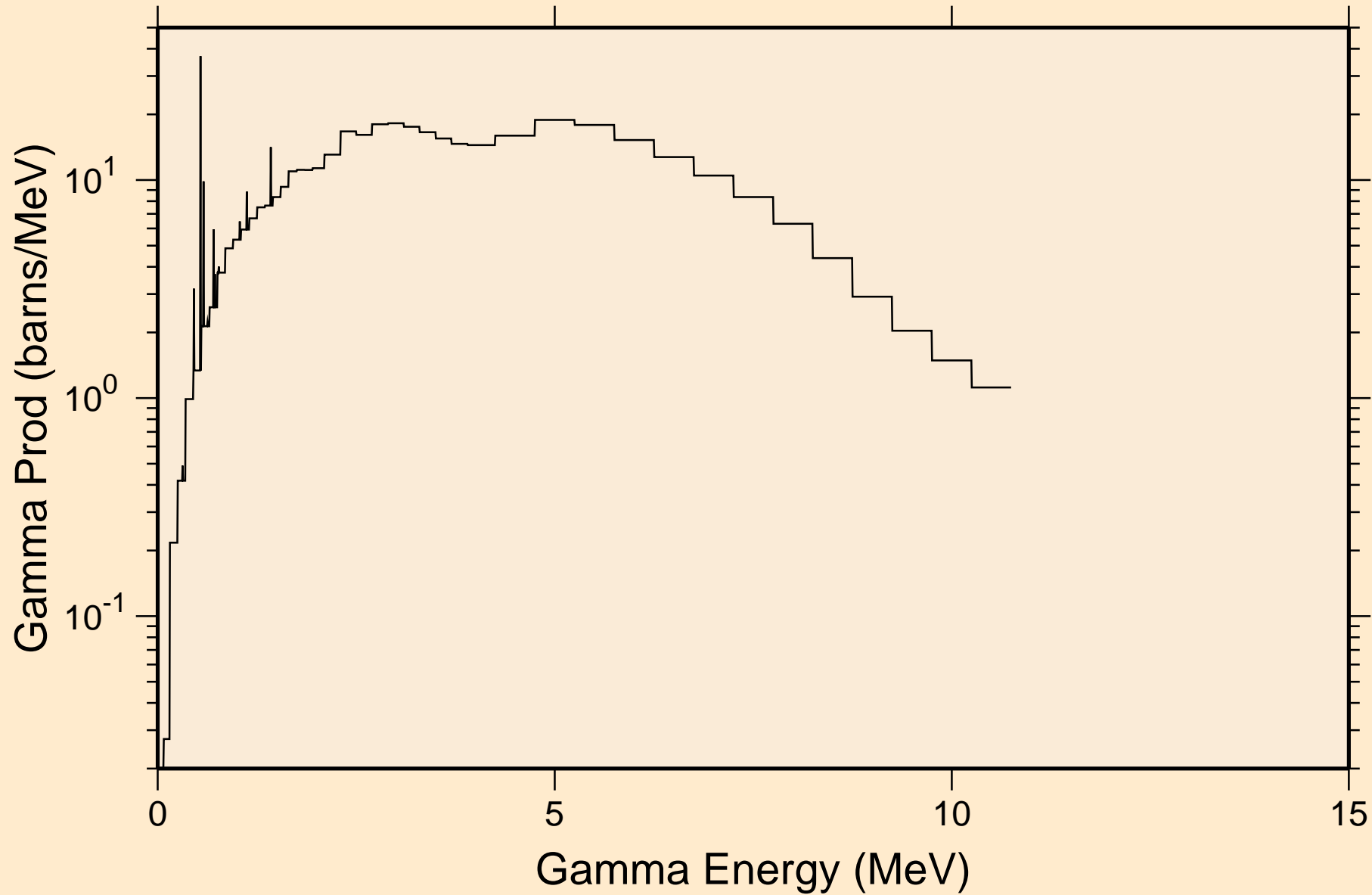




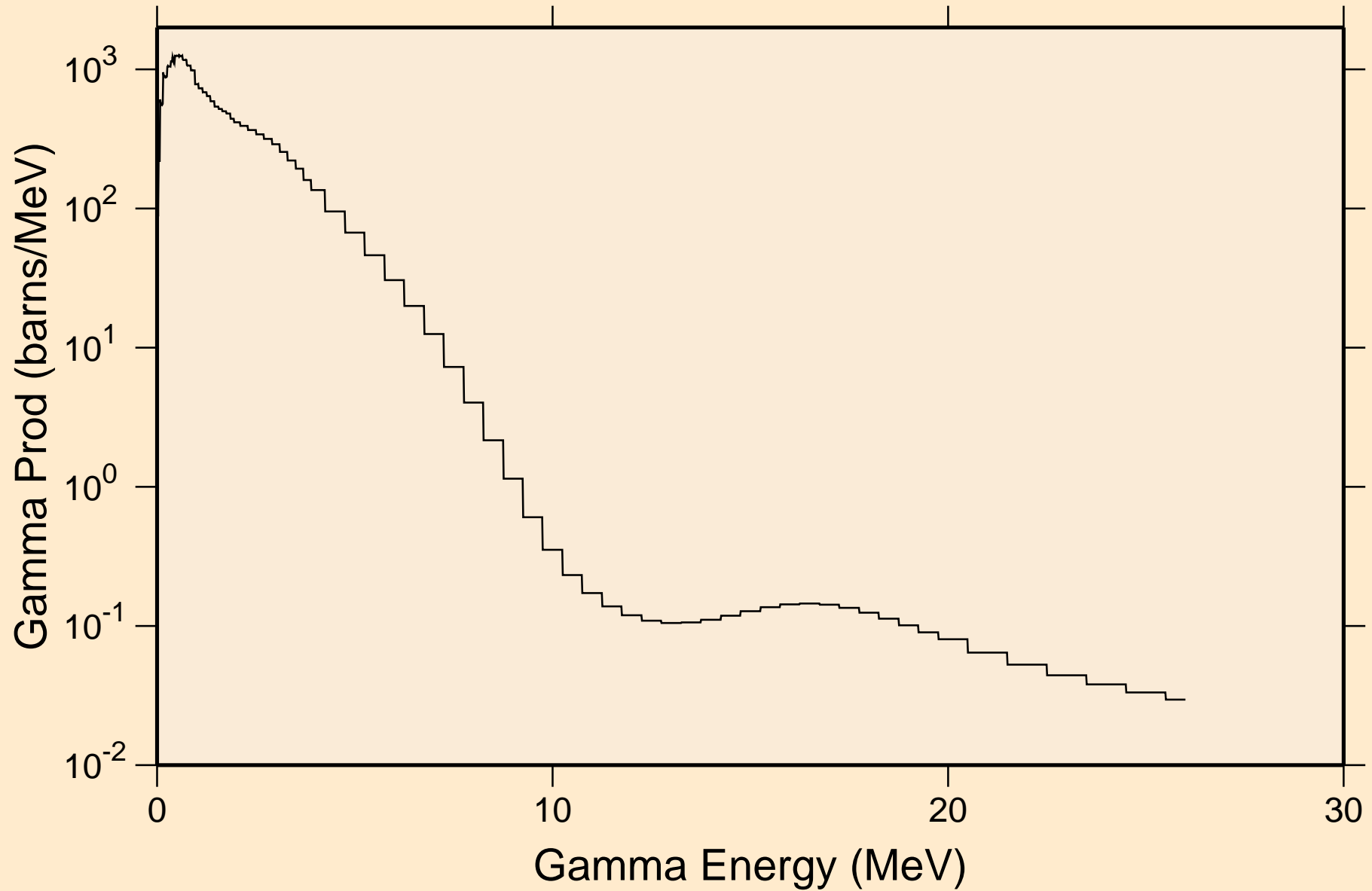
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,da)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum

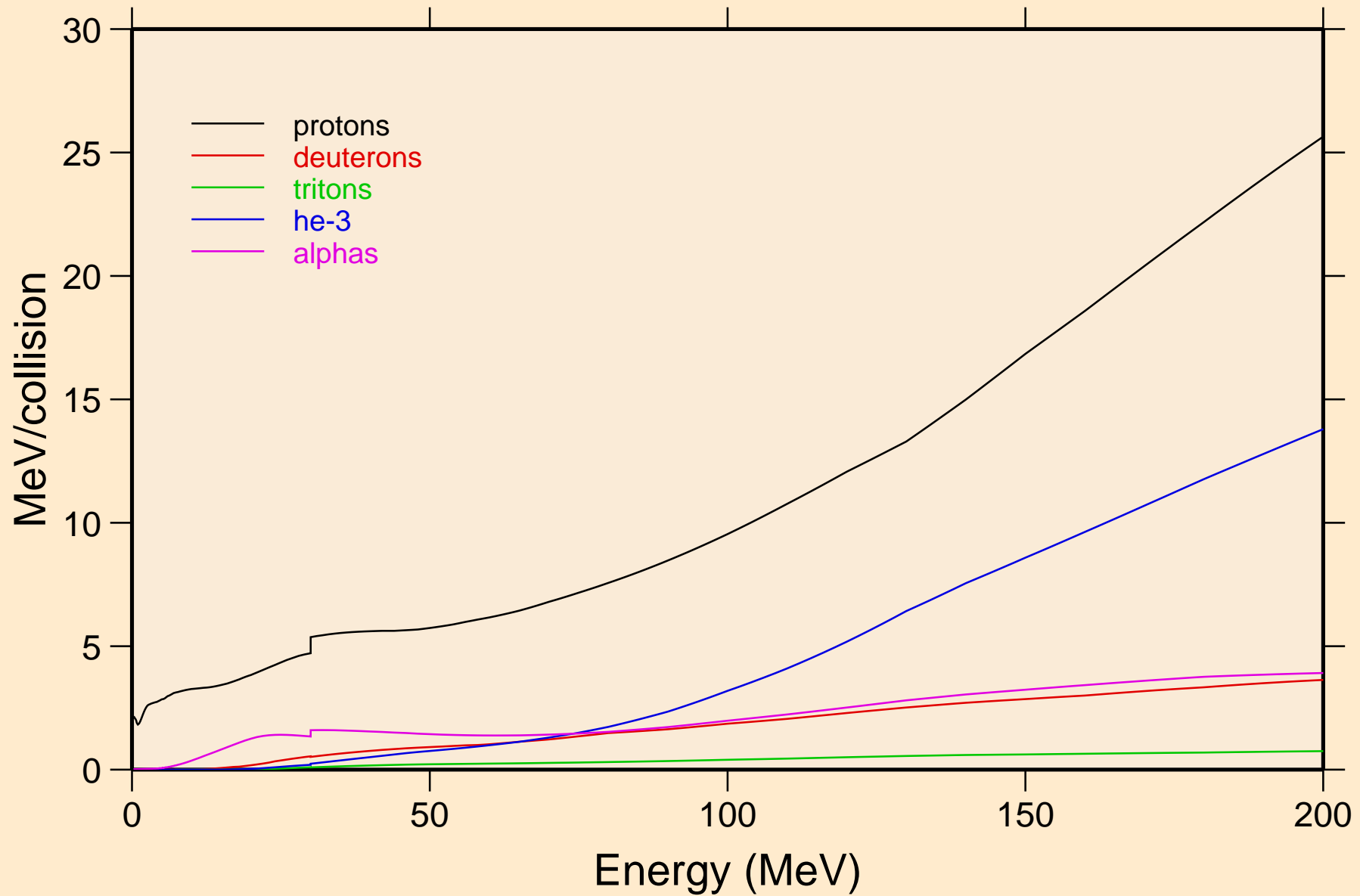


ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
14 MeV photon spectrum

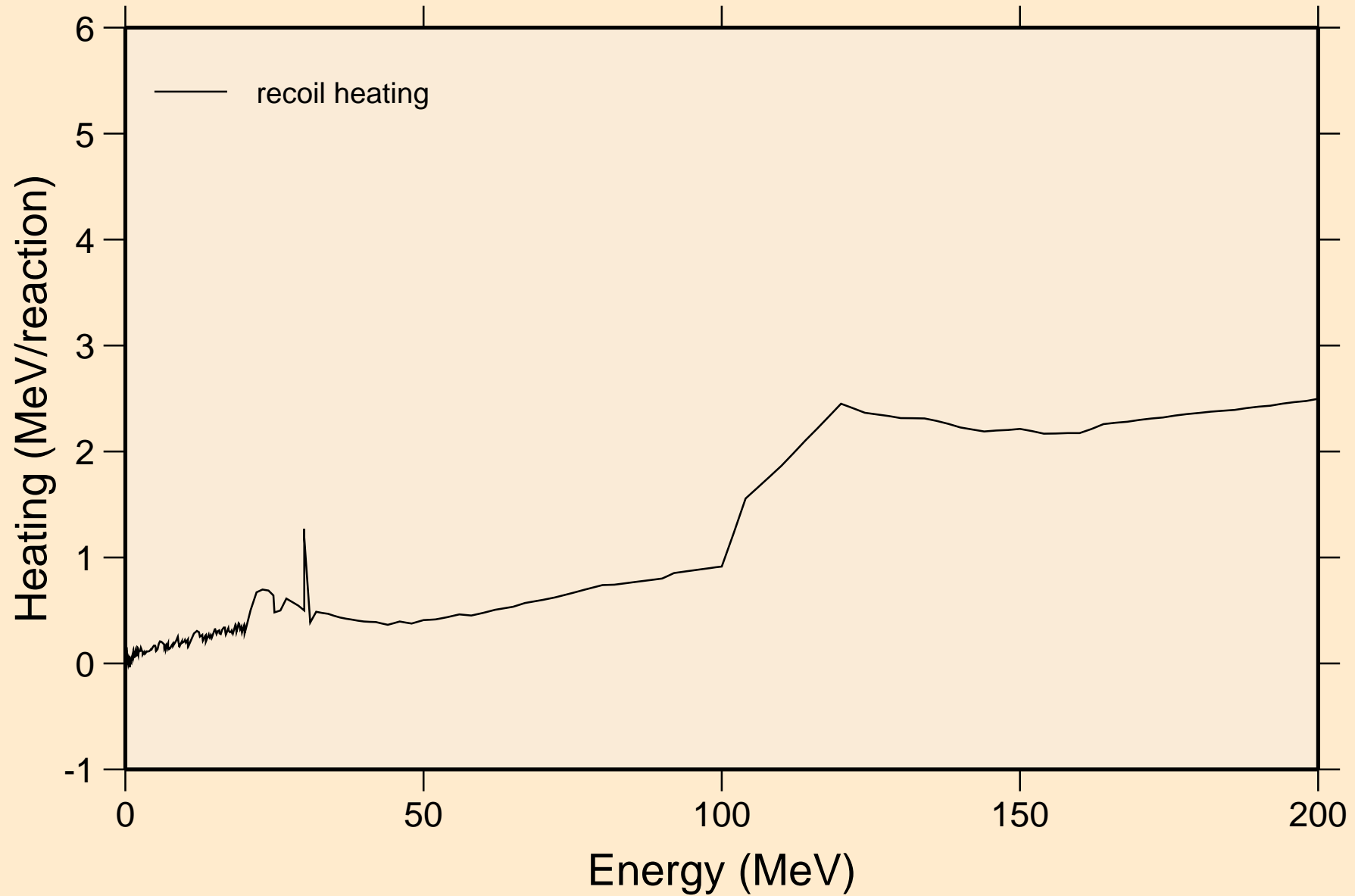


# ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

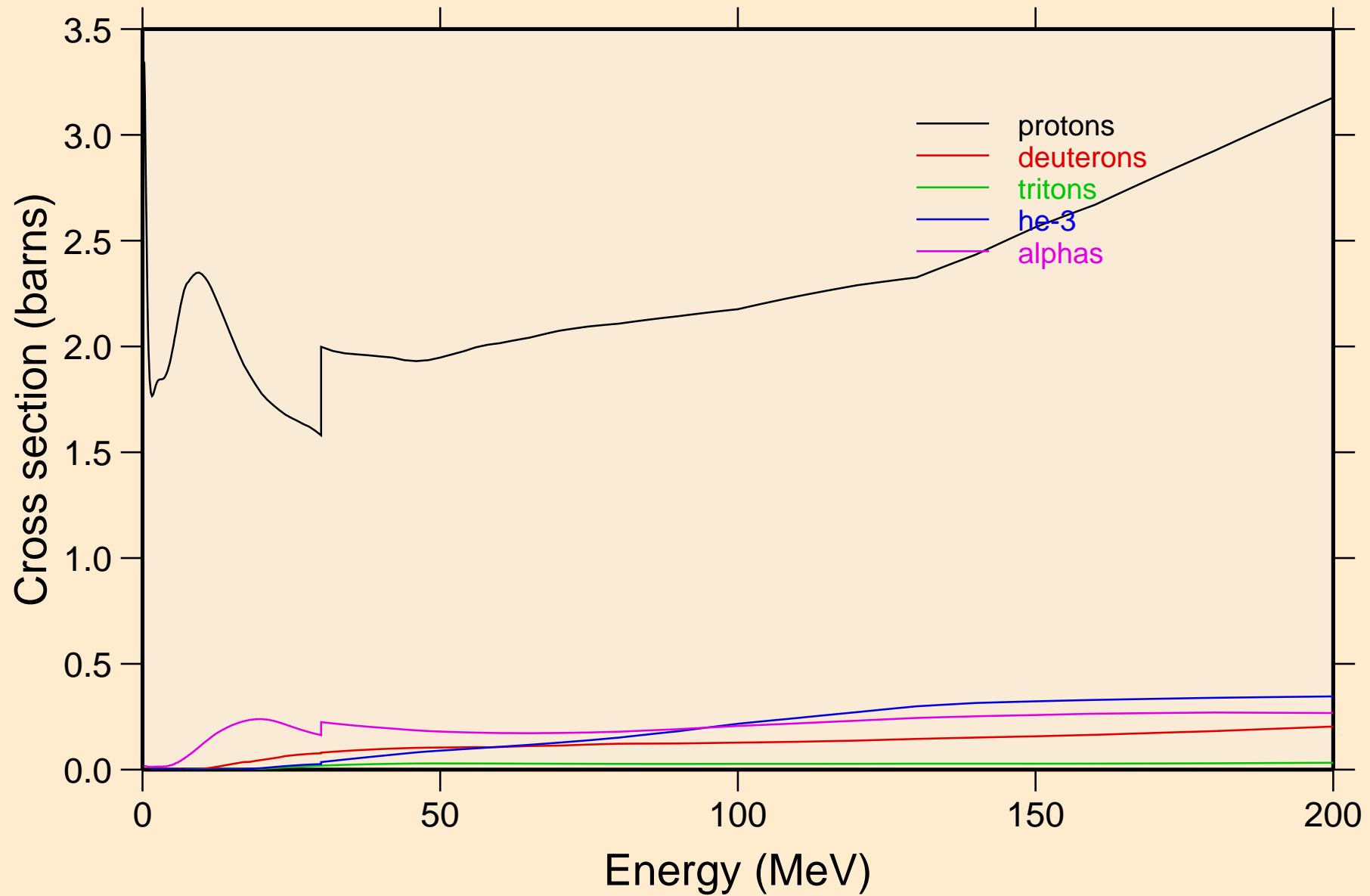
## Particle heating contributions



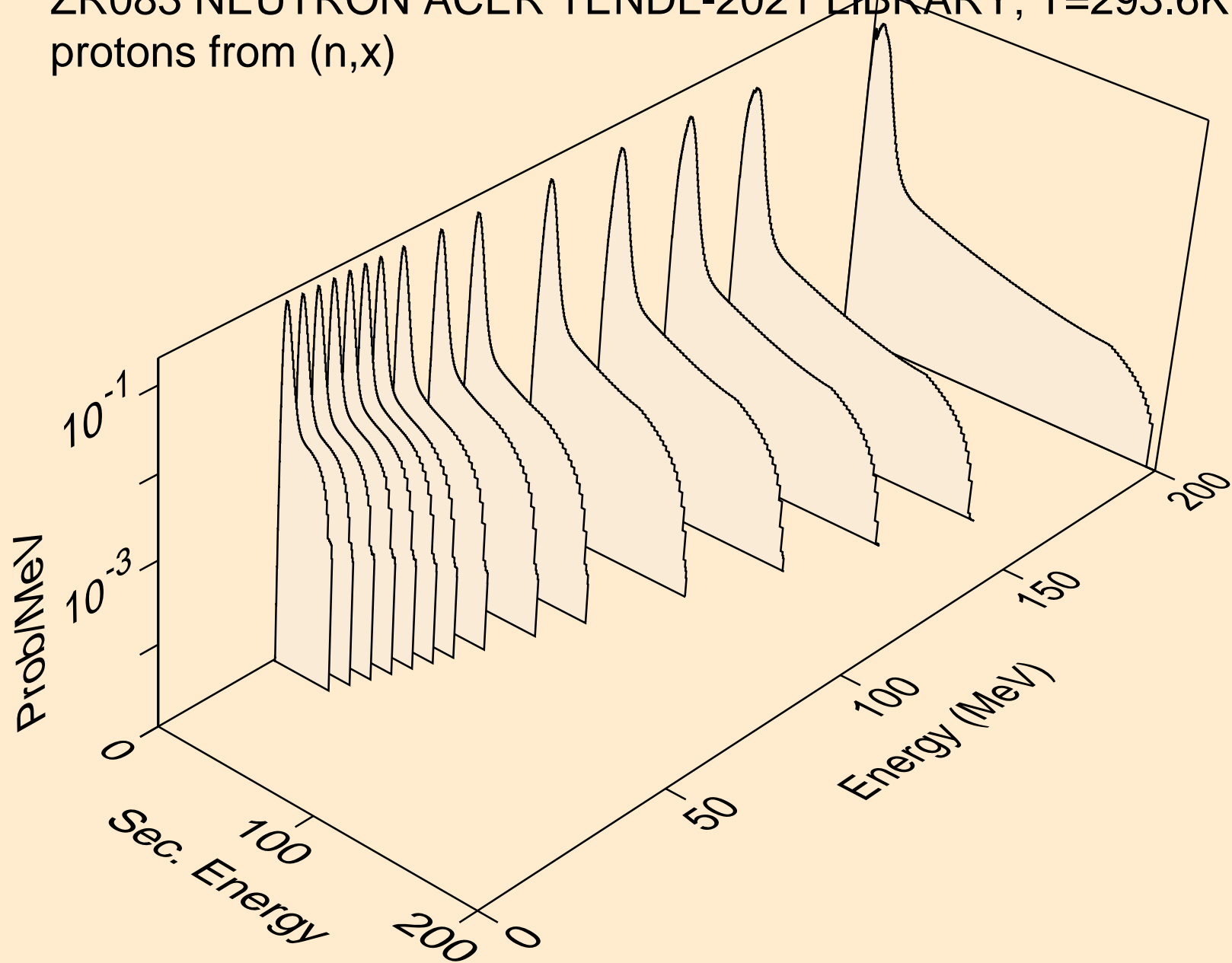
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Recoil Heating



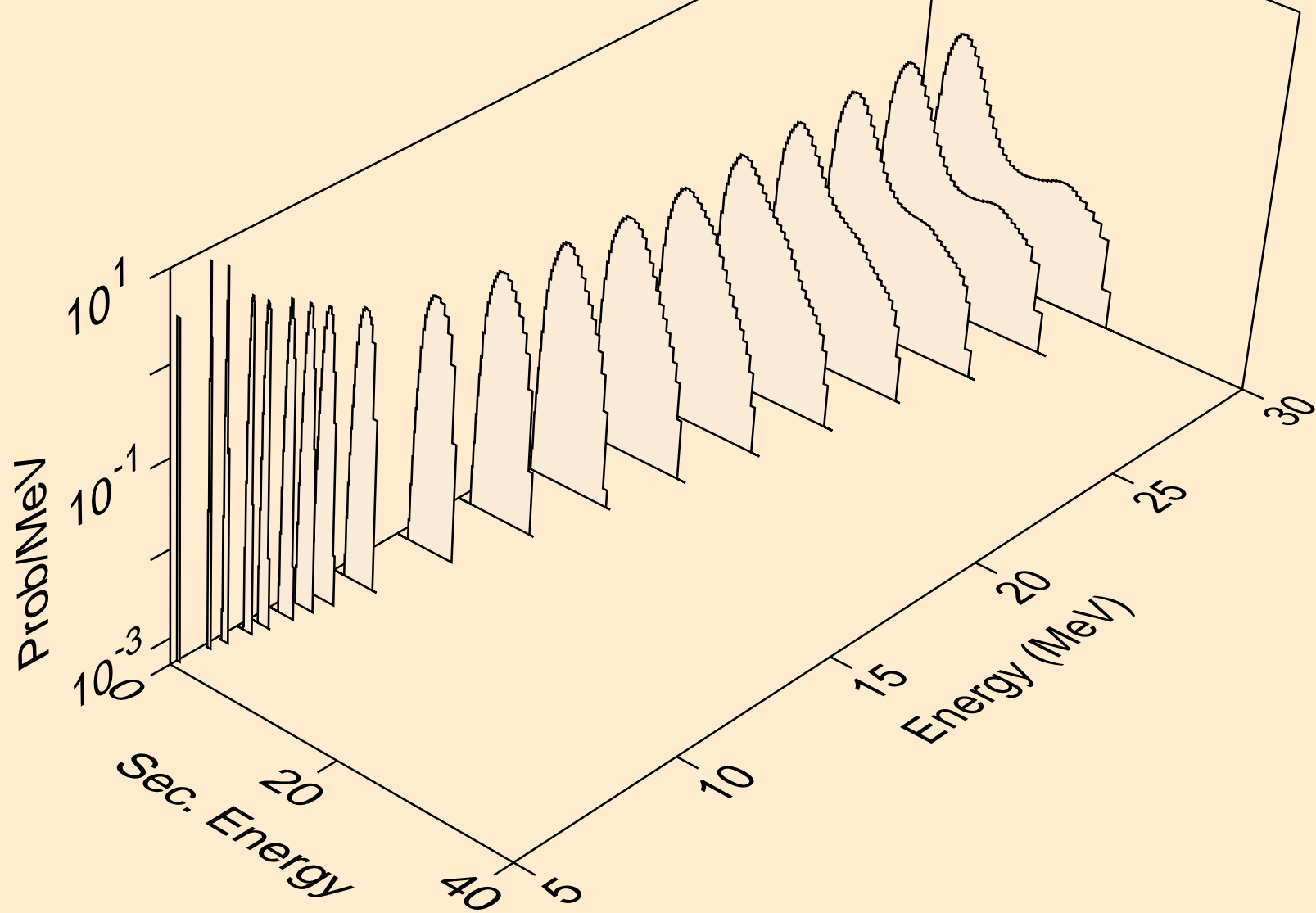
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Particle production cross sections



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)

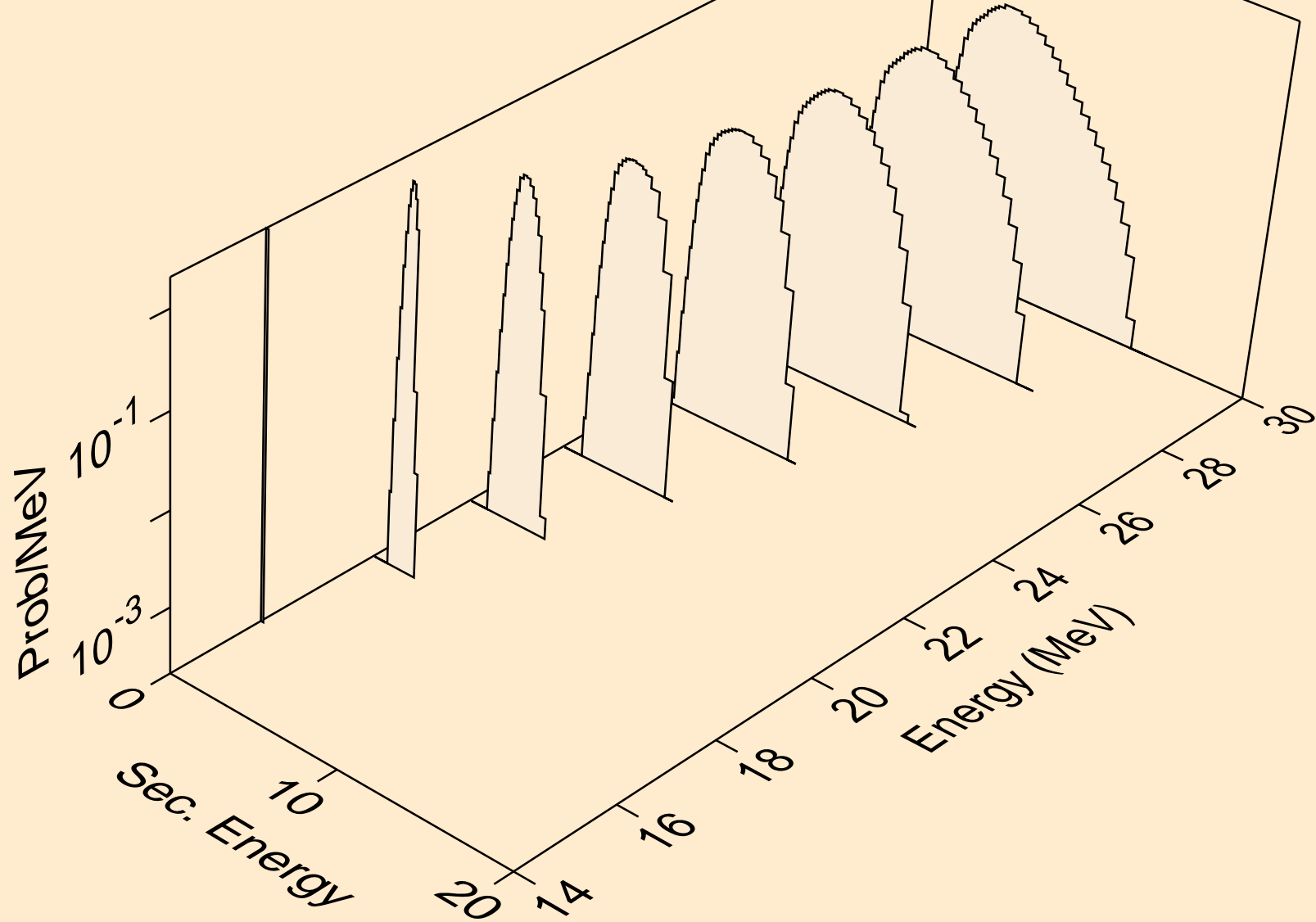


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protons from (n,n\*)p

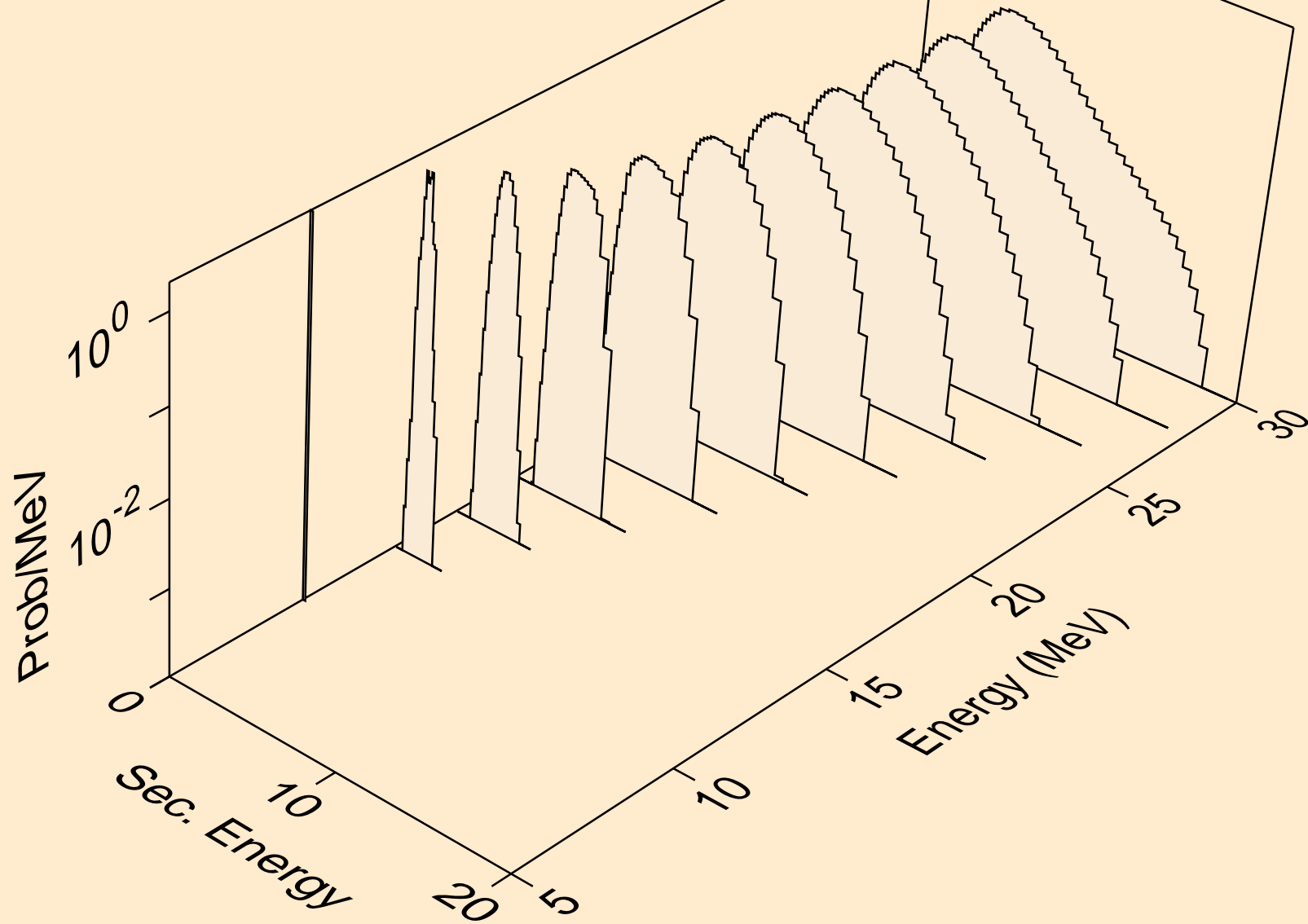




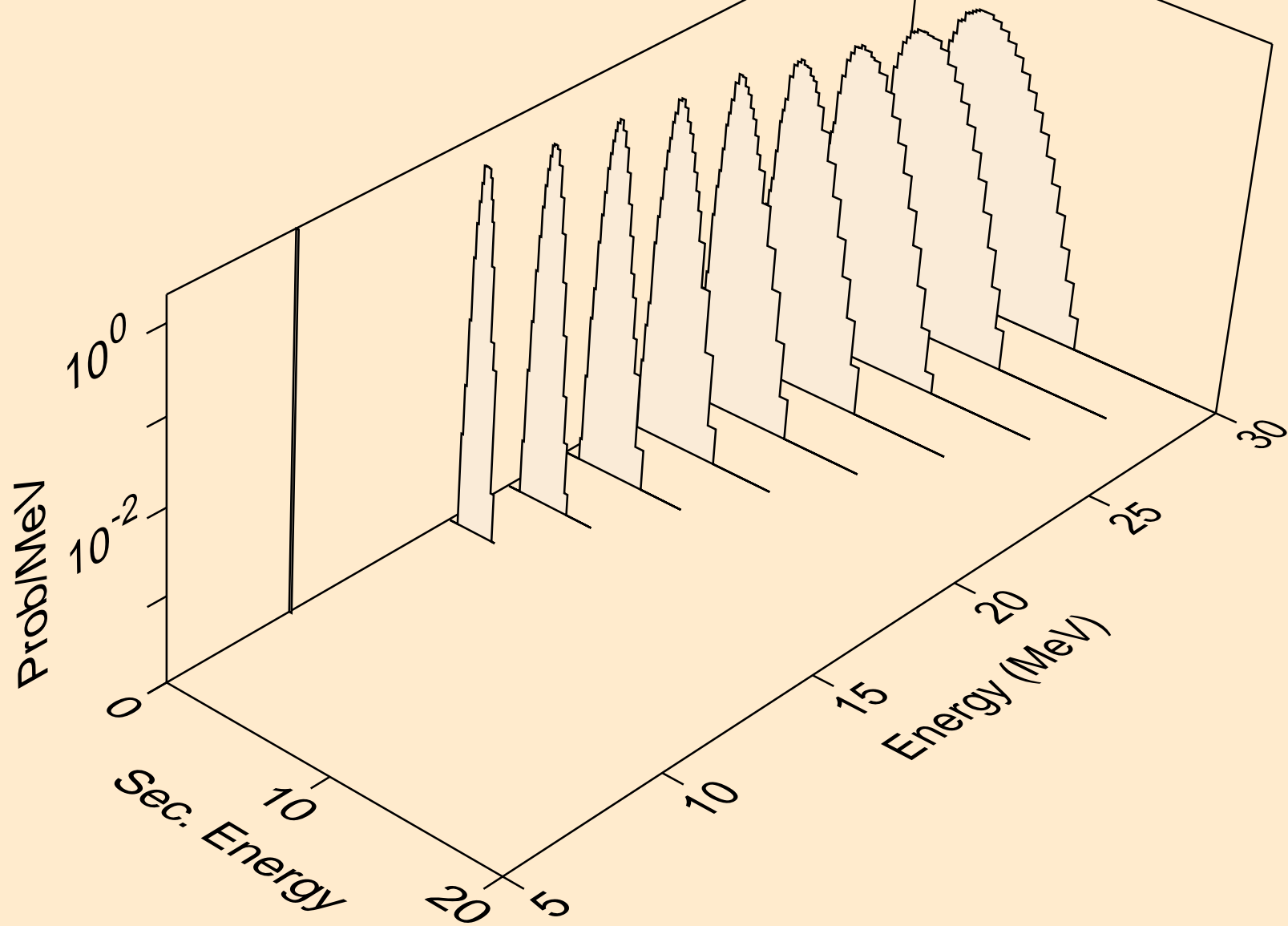
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protons from (n,2np)



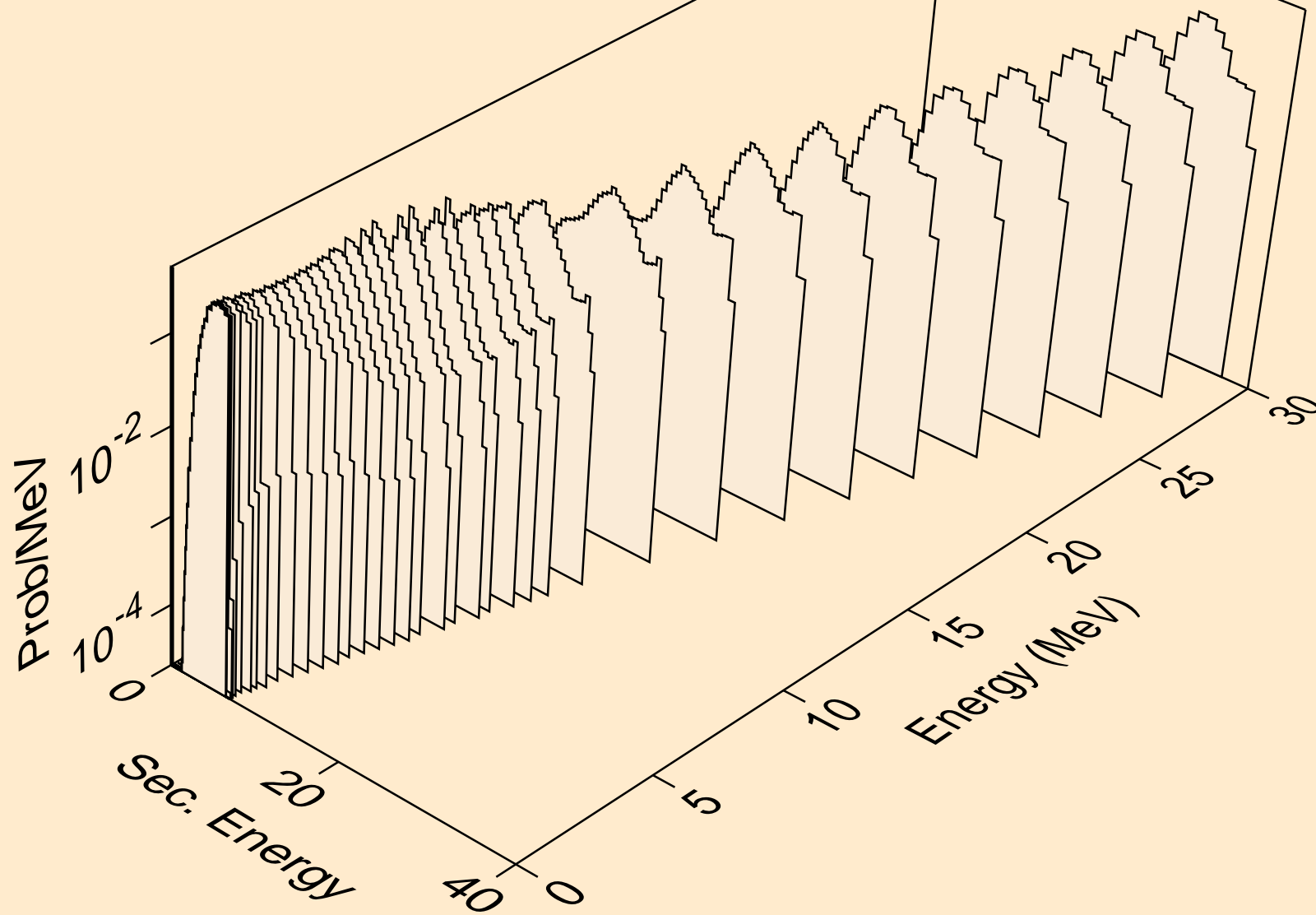
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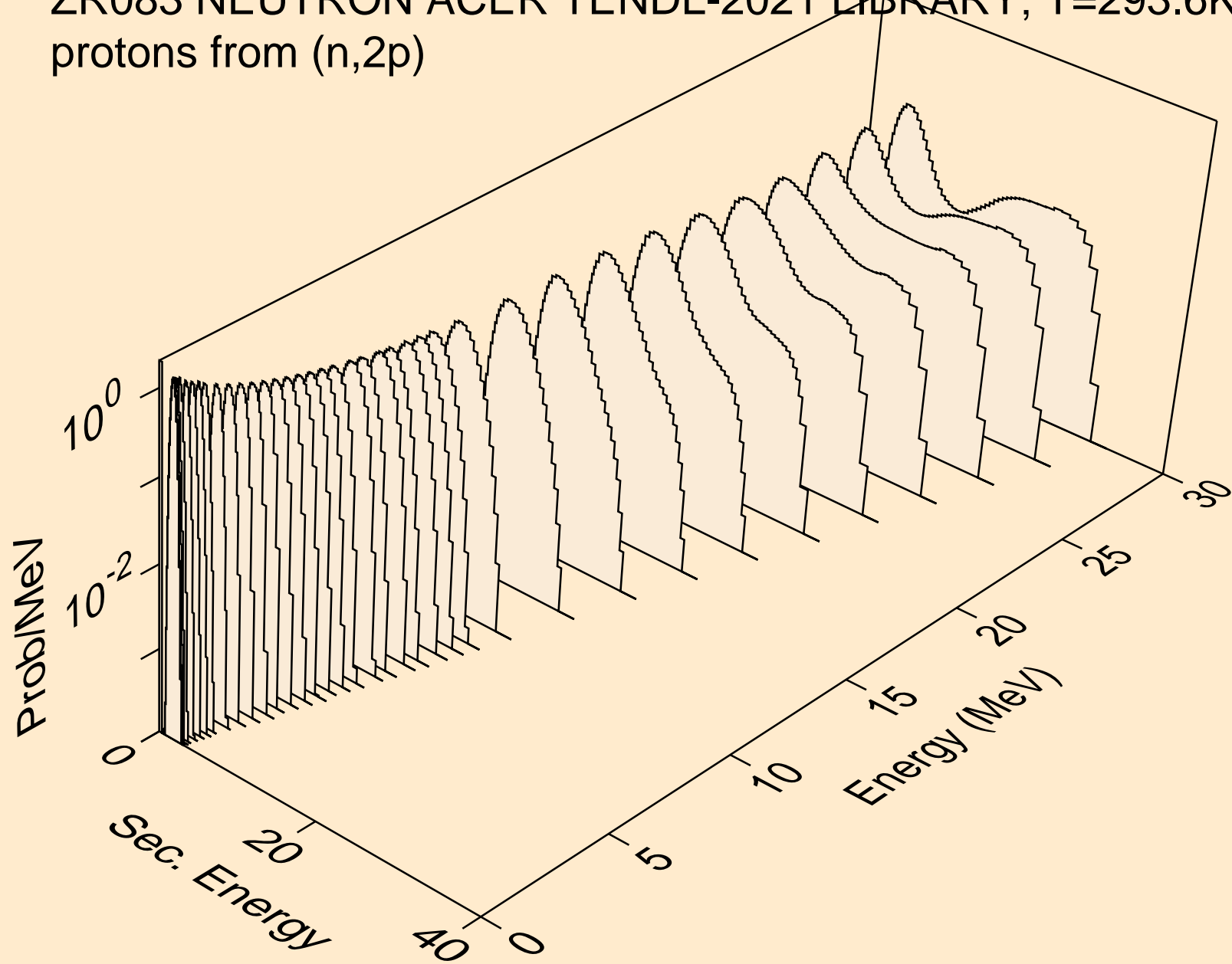
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protons from (n,npa)



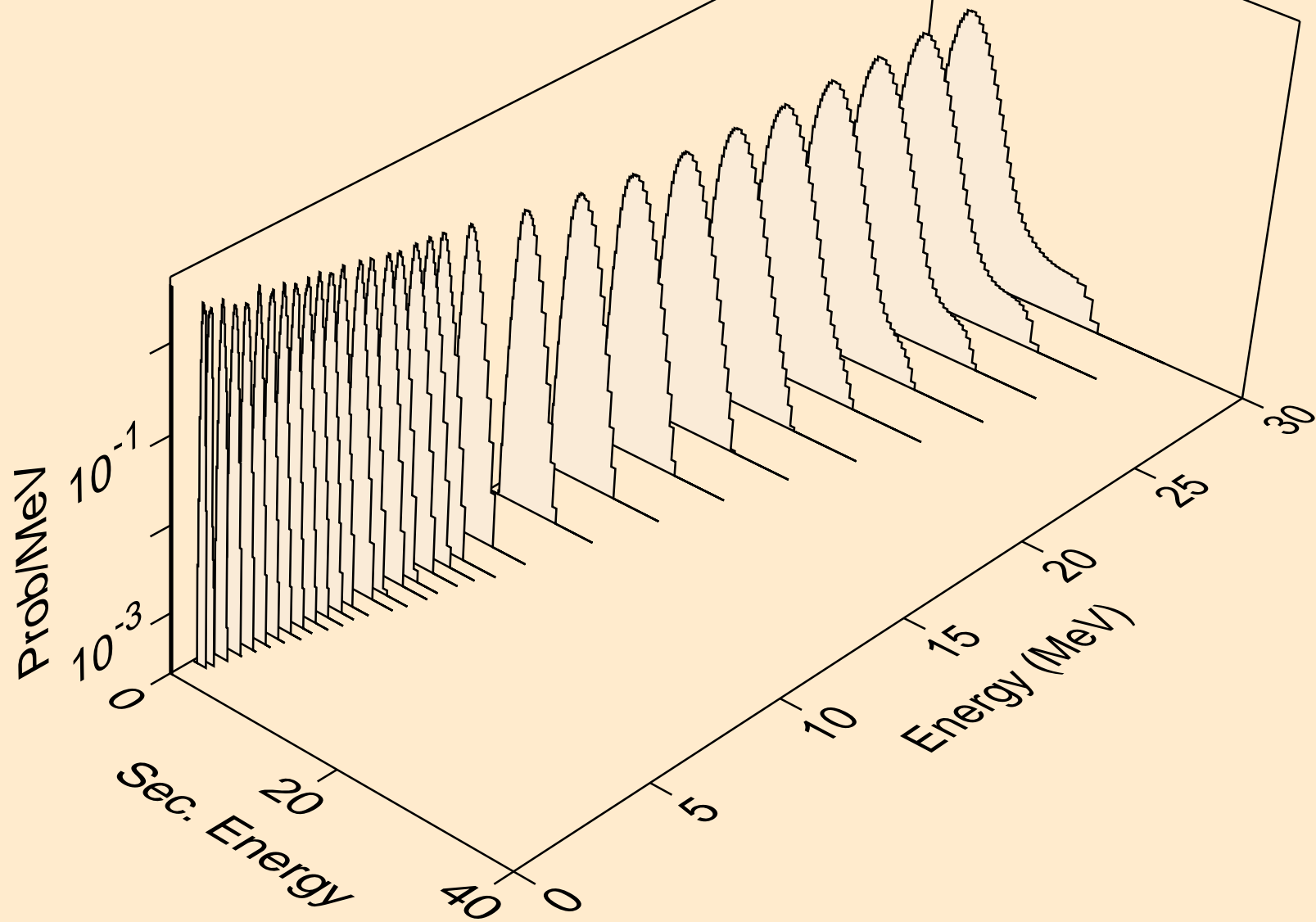
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protons from (n,p)



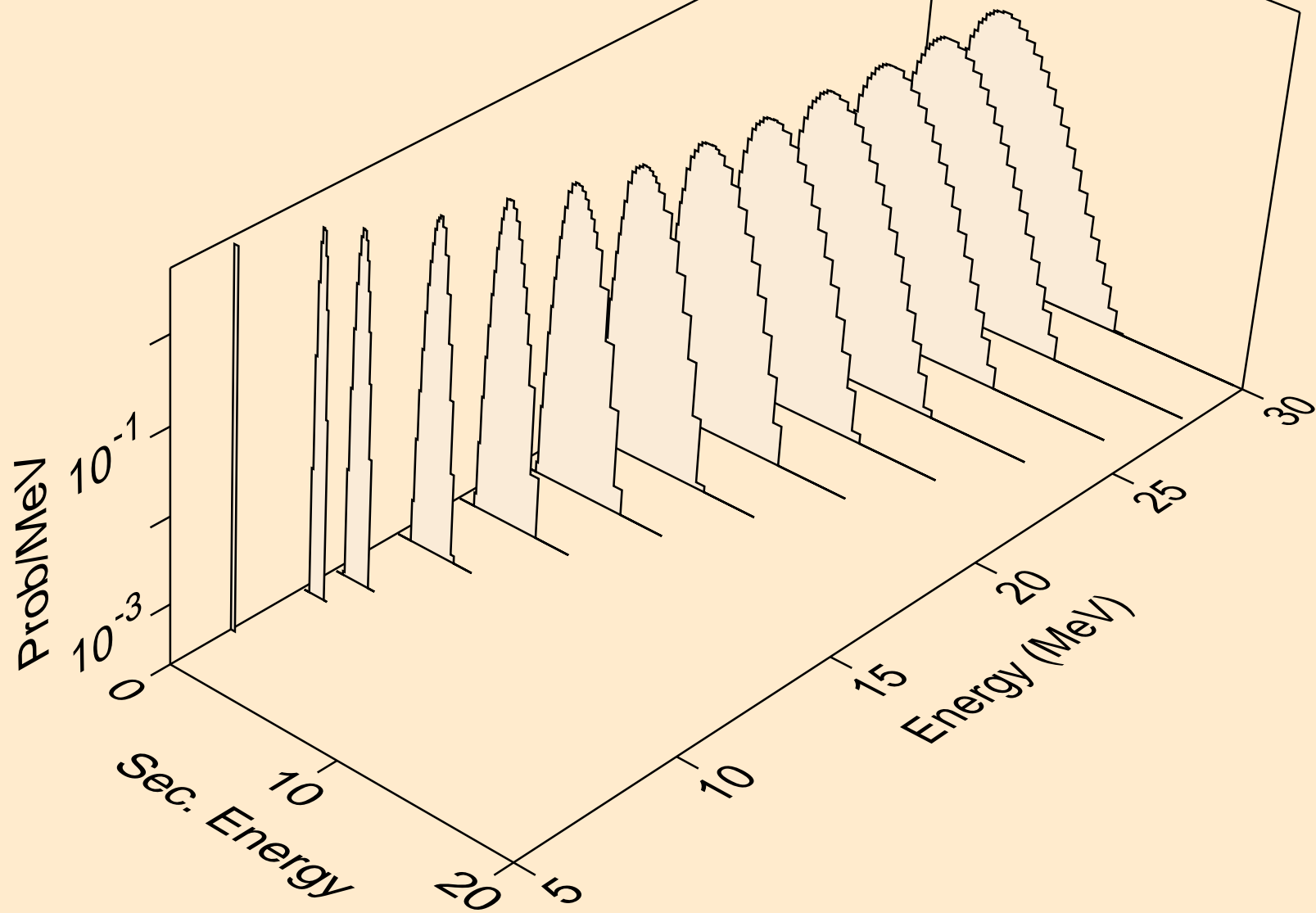
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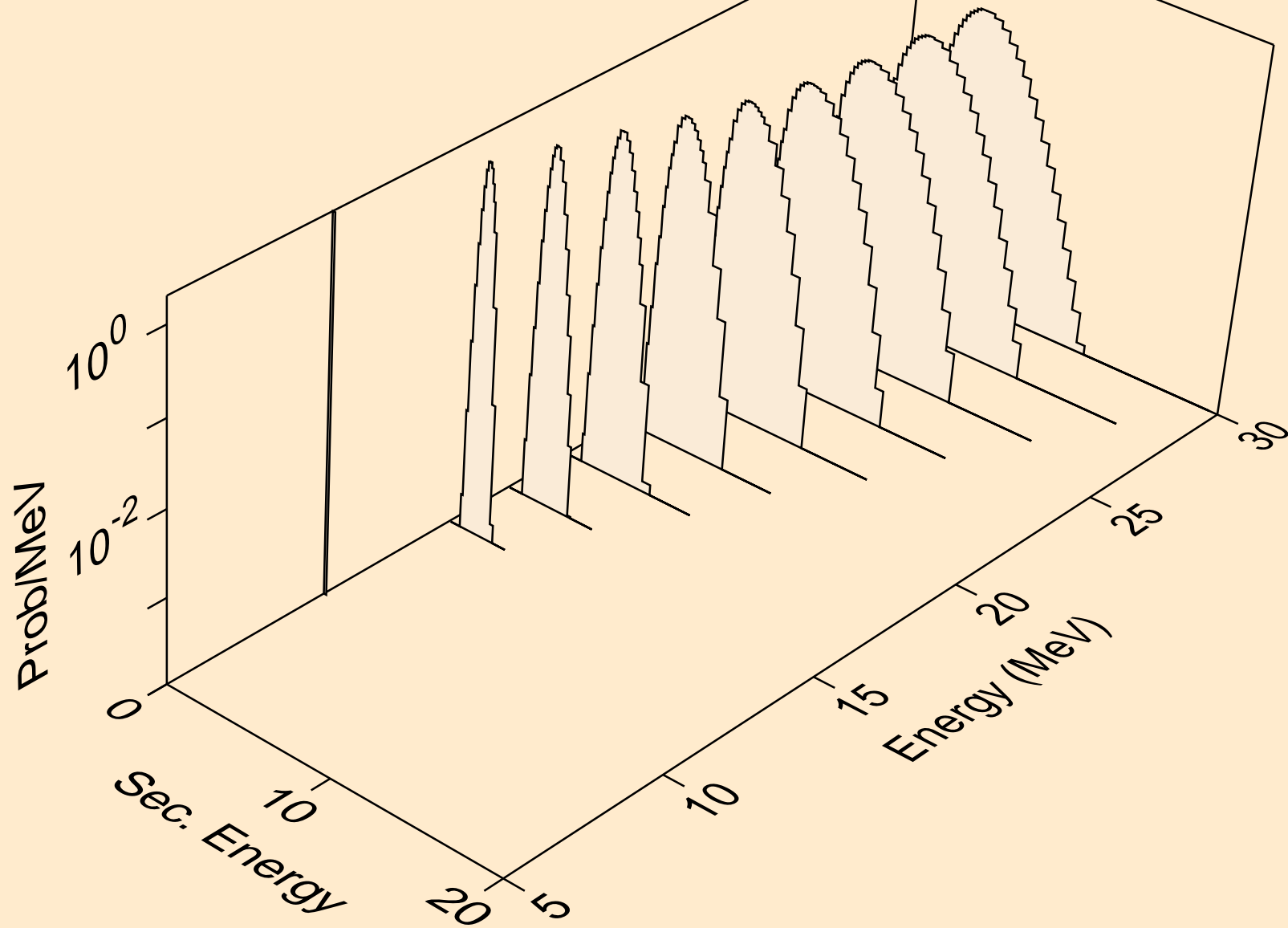
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protons from (n,p)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,pd)

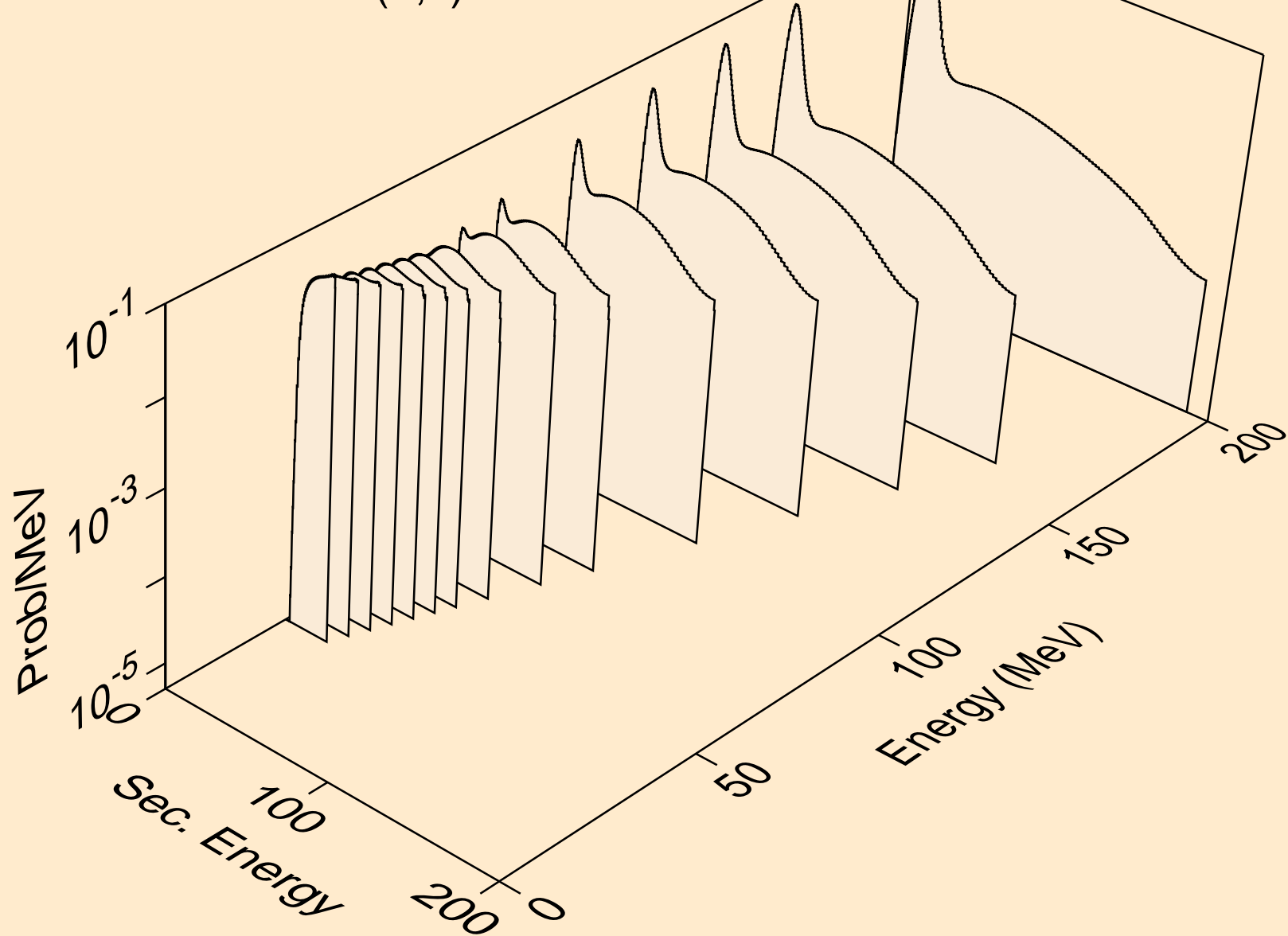


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protons from (n,pt)

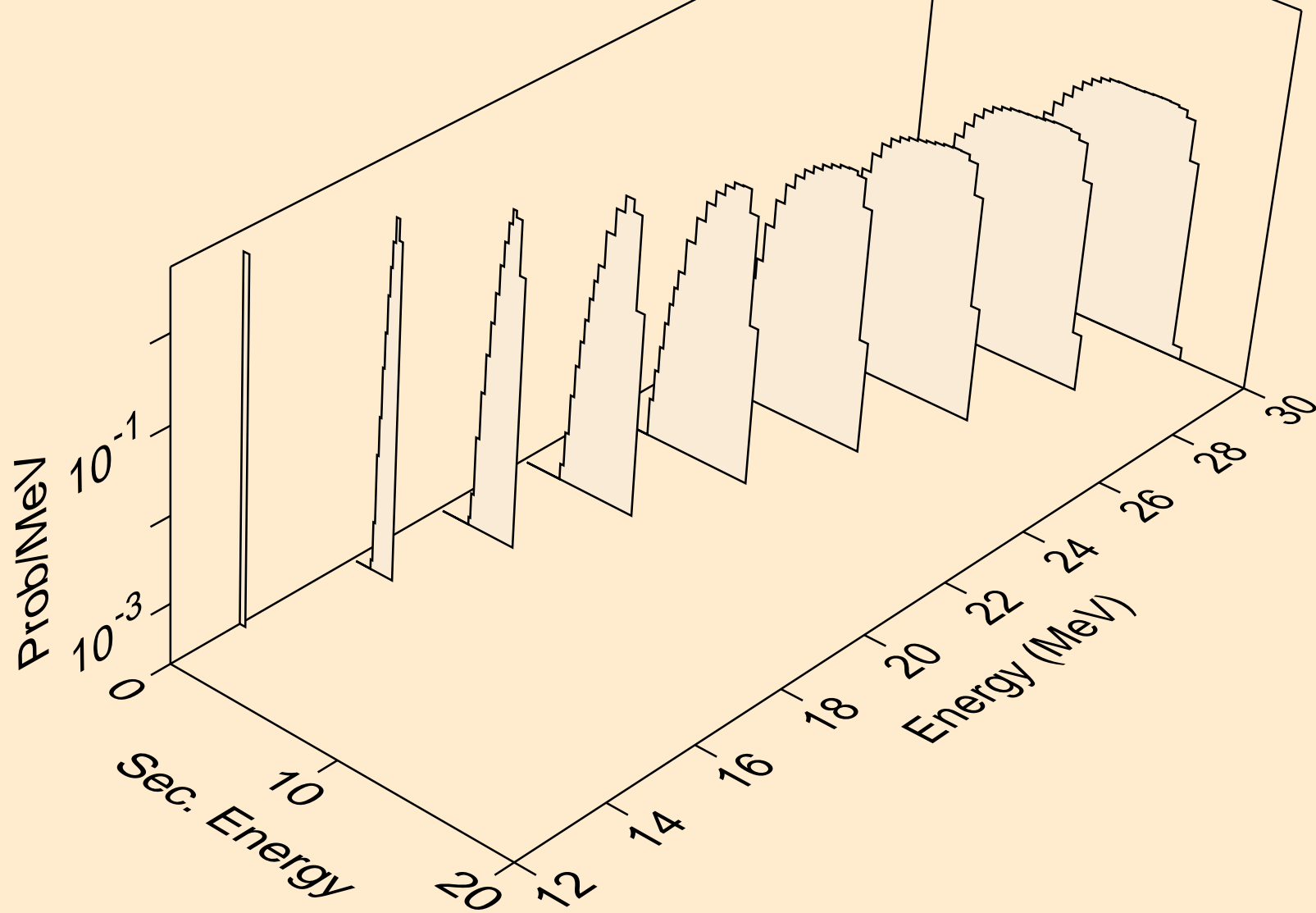




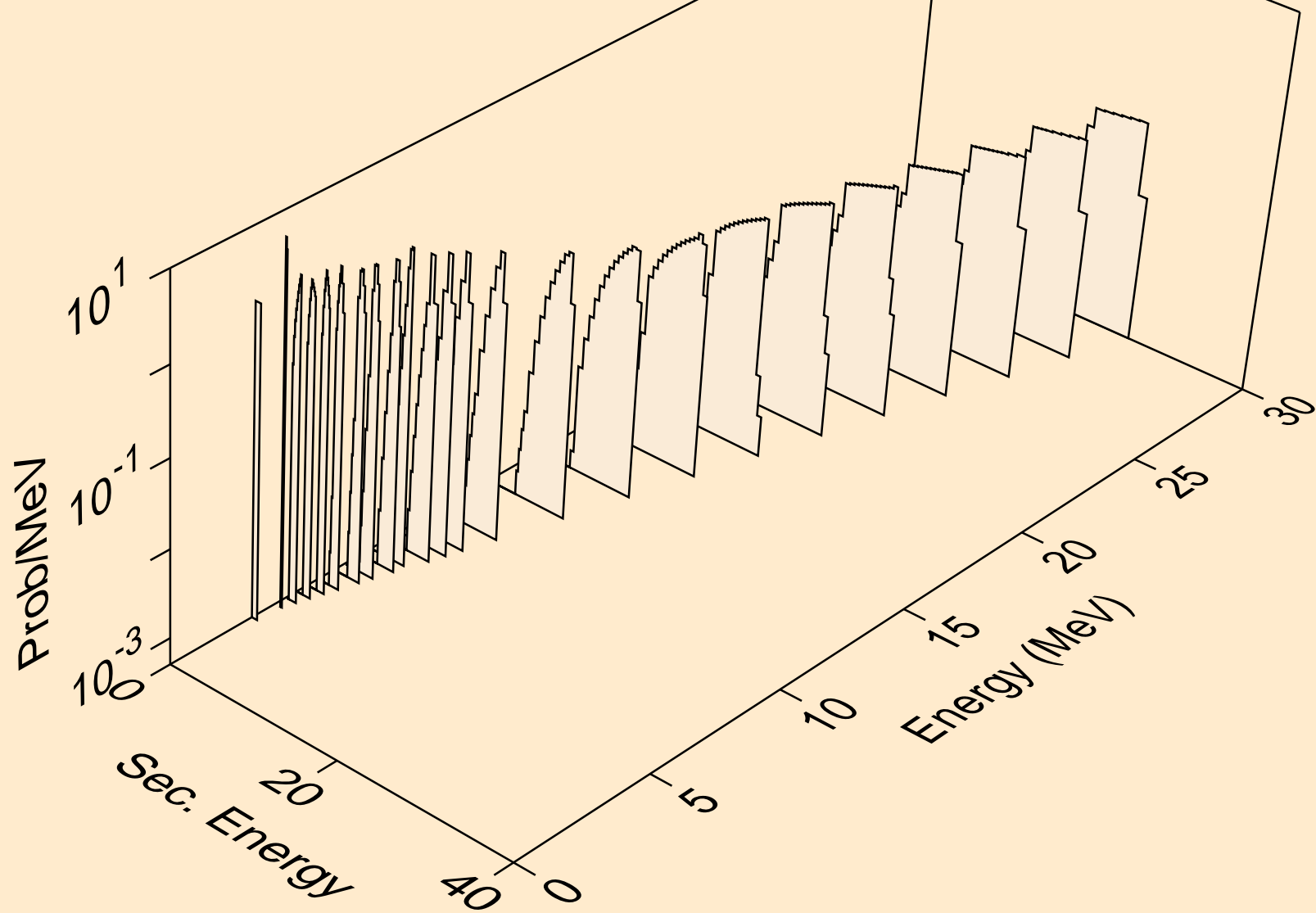
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deuterons from (n,x)



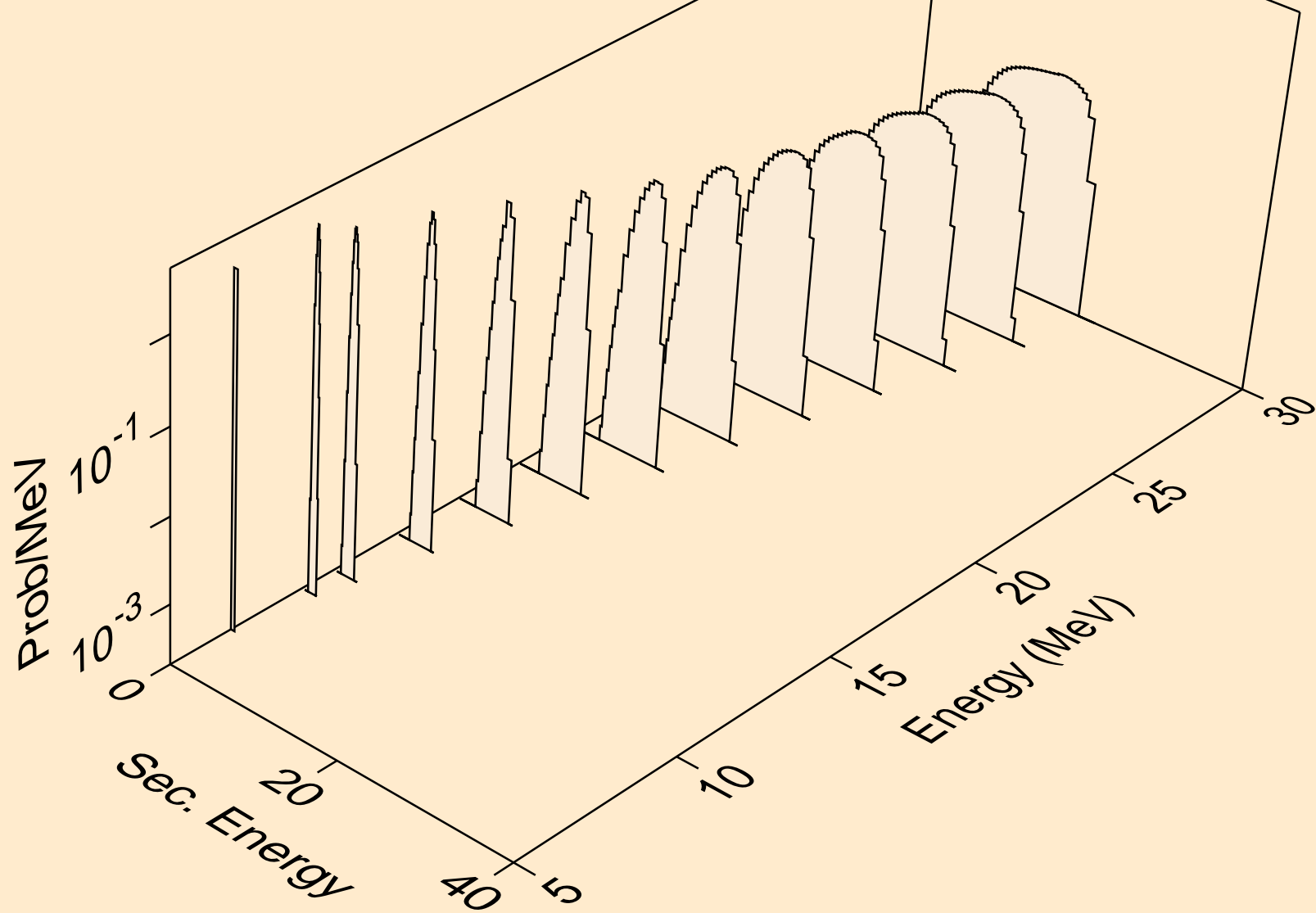
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deuterons from (n,n\*)d



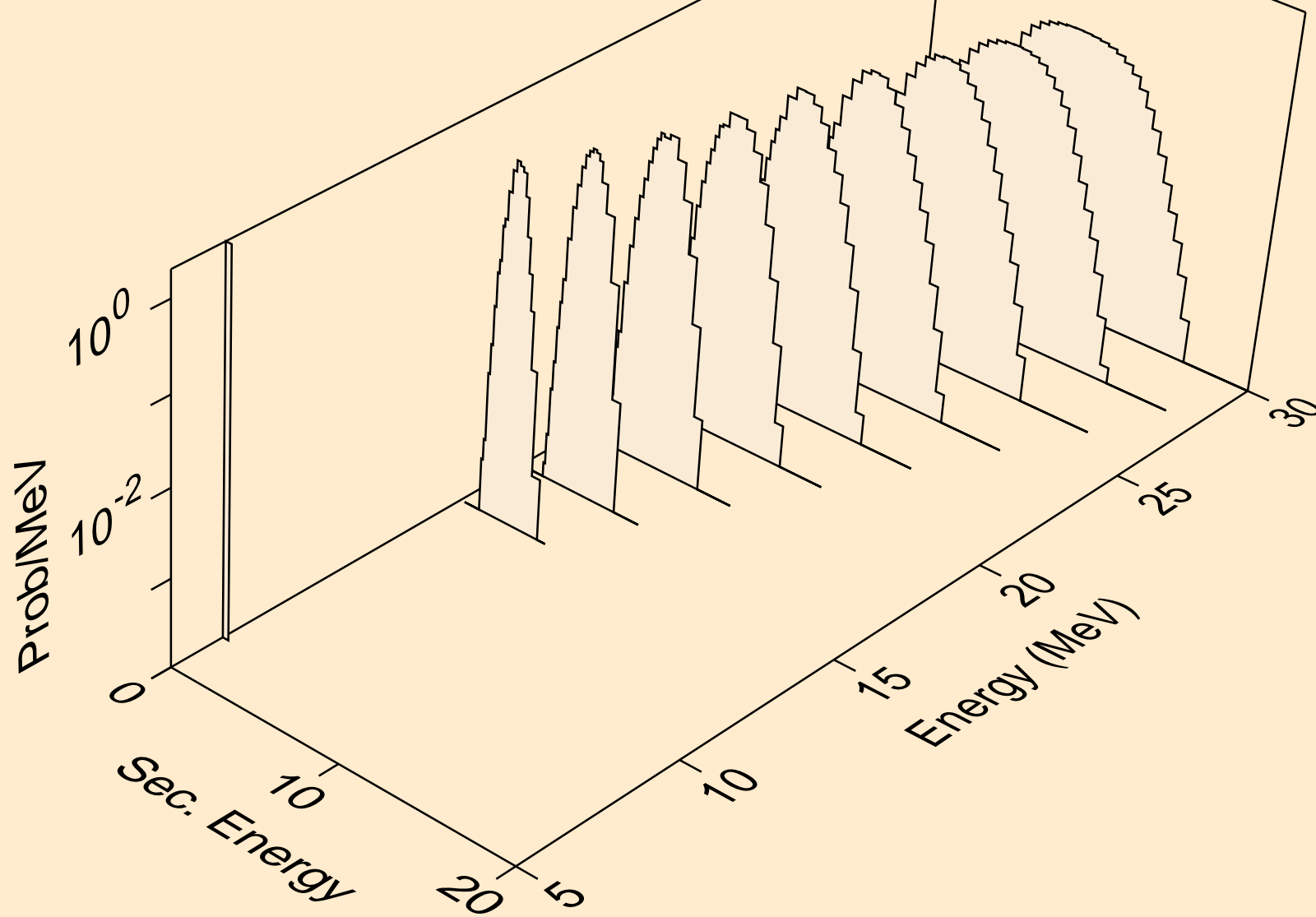
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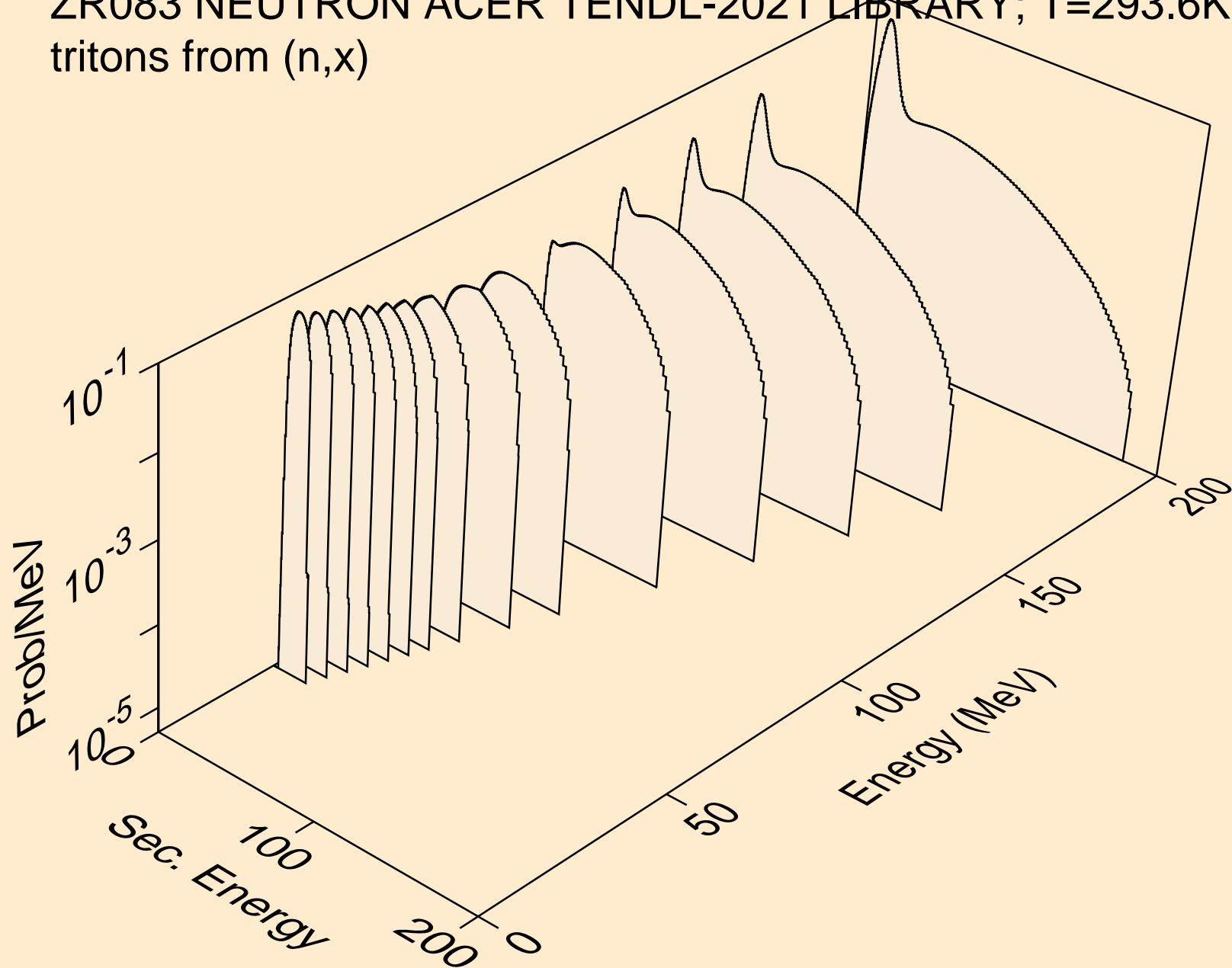
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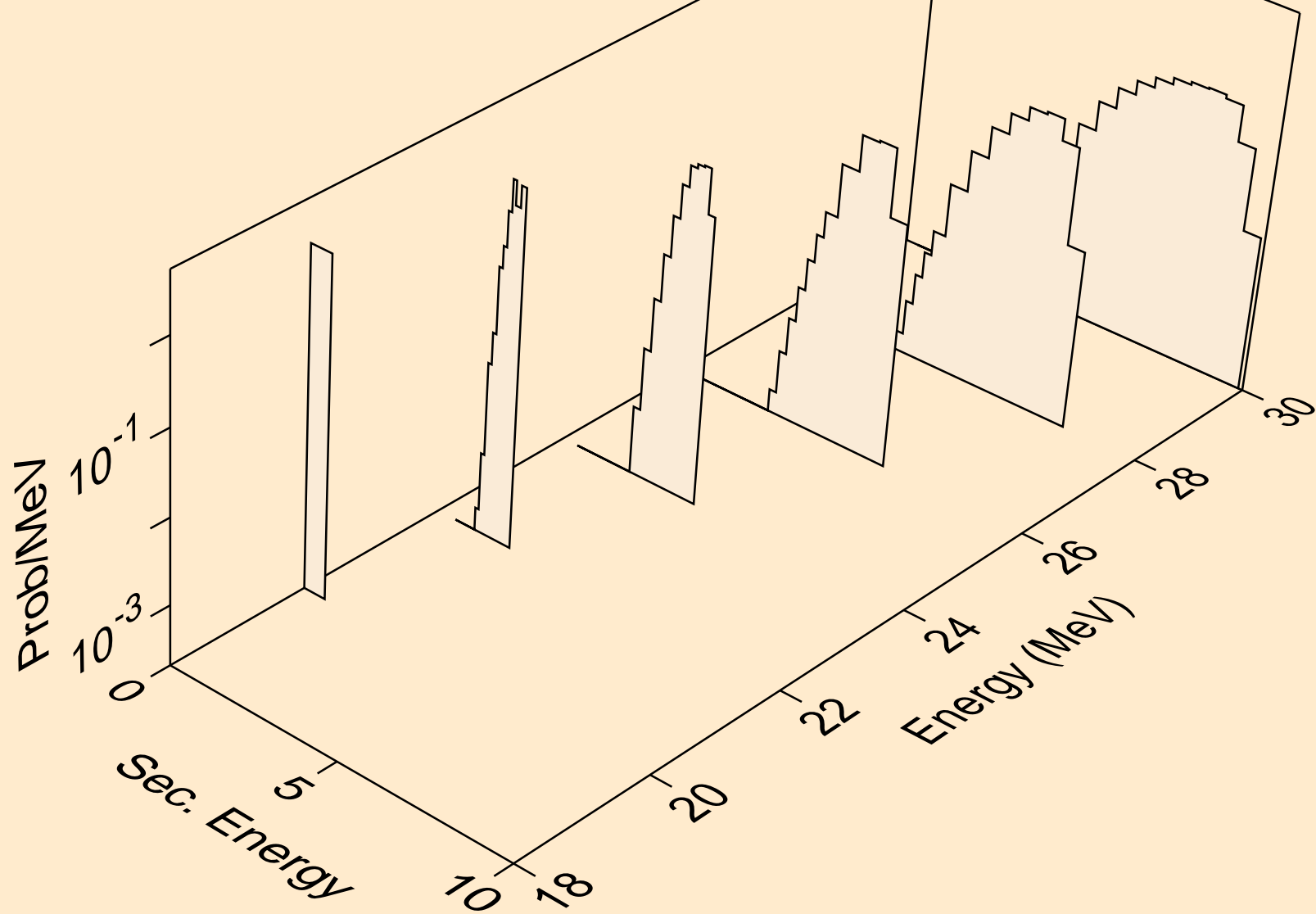
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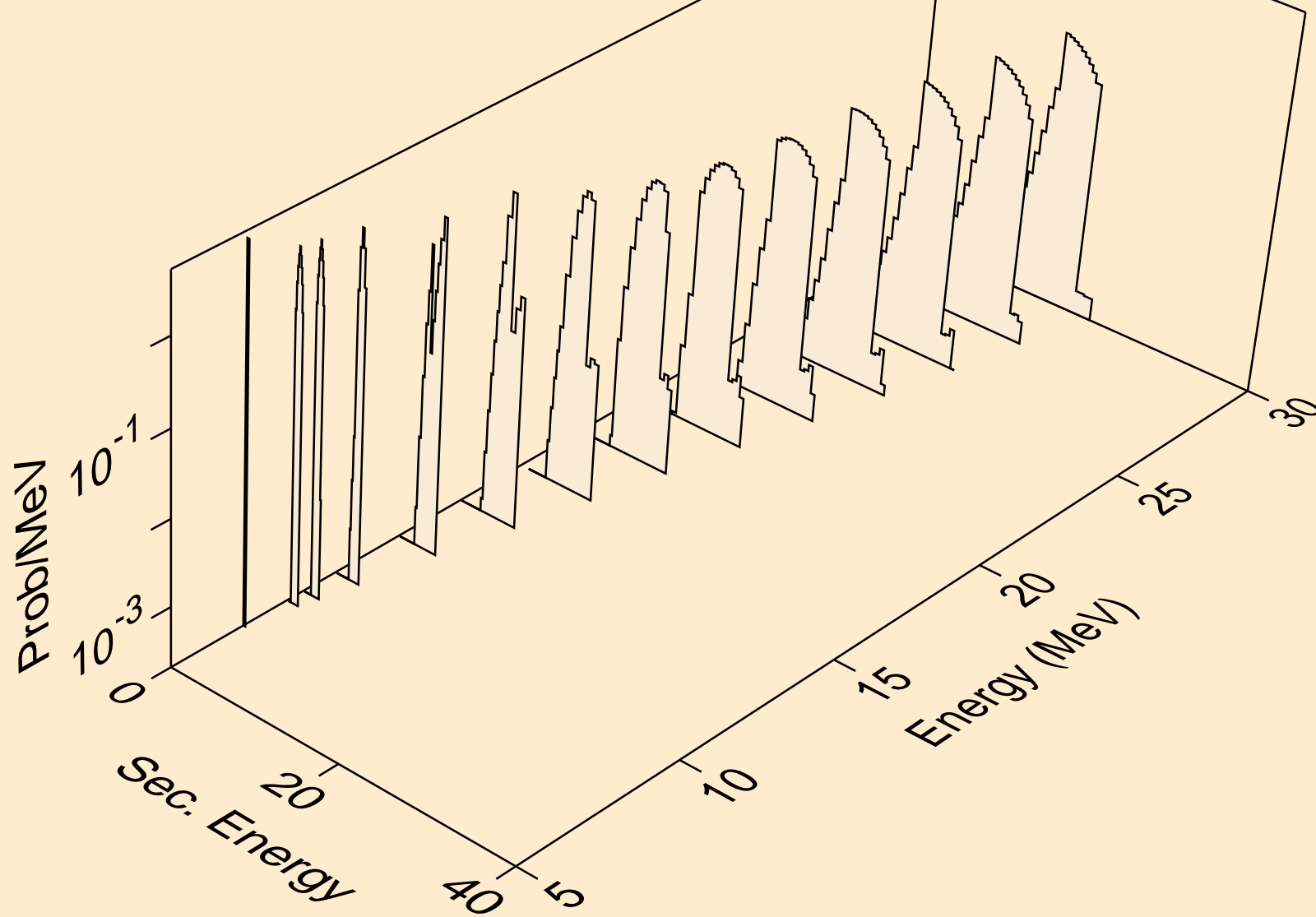
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tritons from (n,x)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t

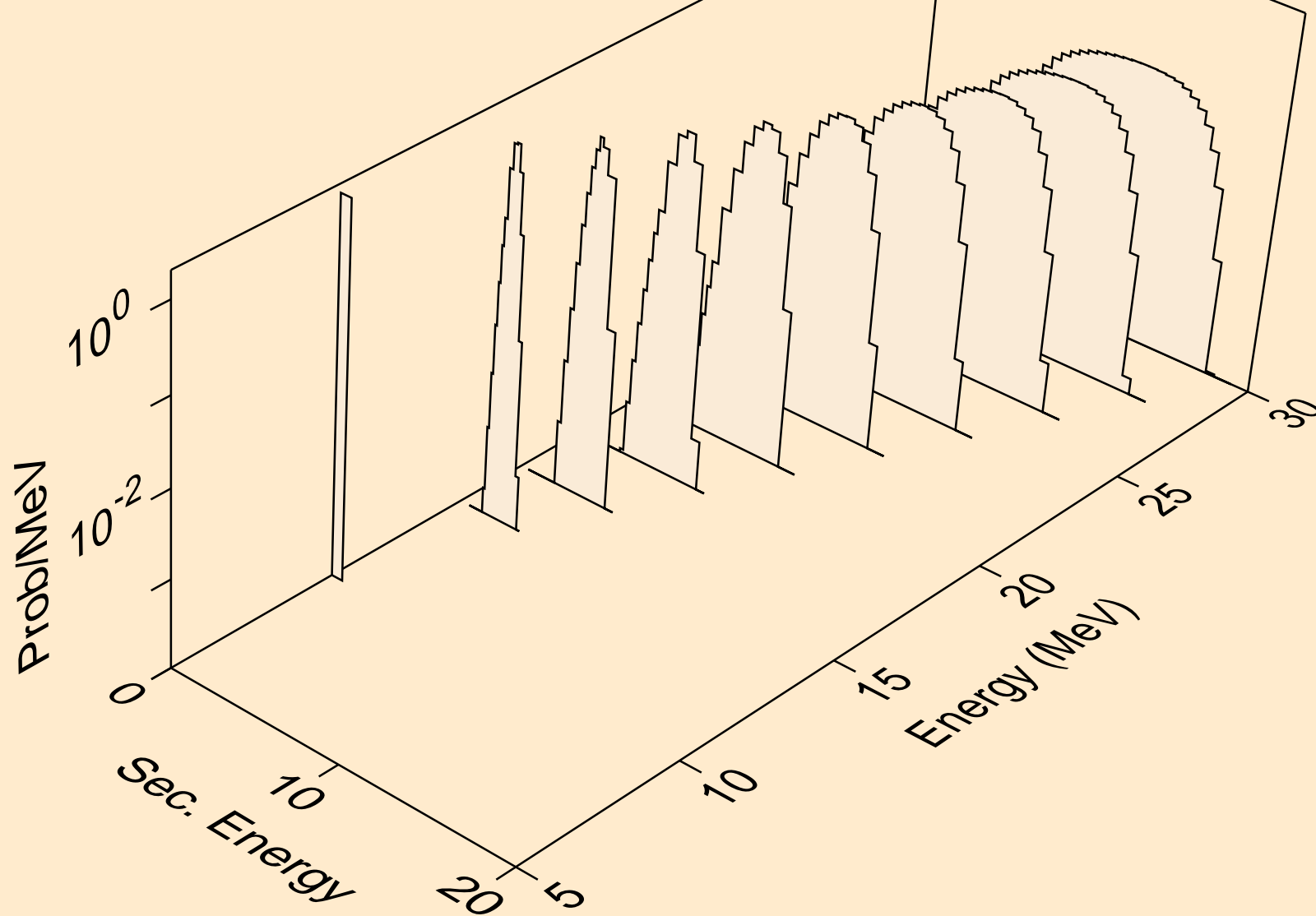


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tritons from (n,t)

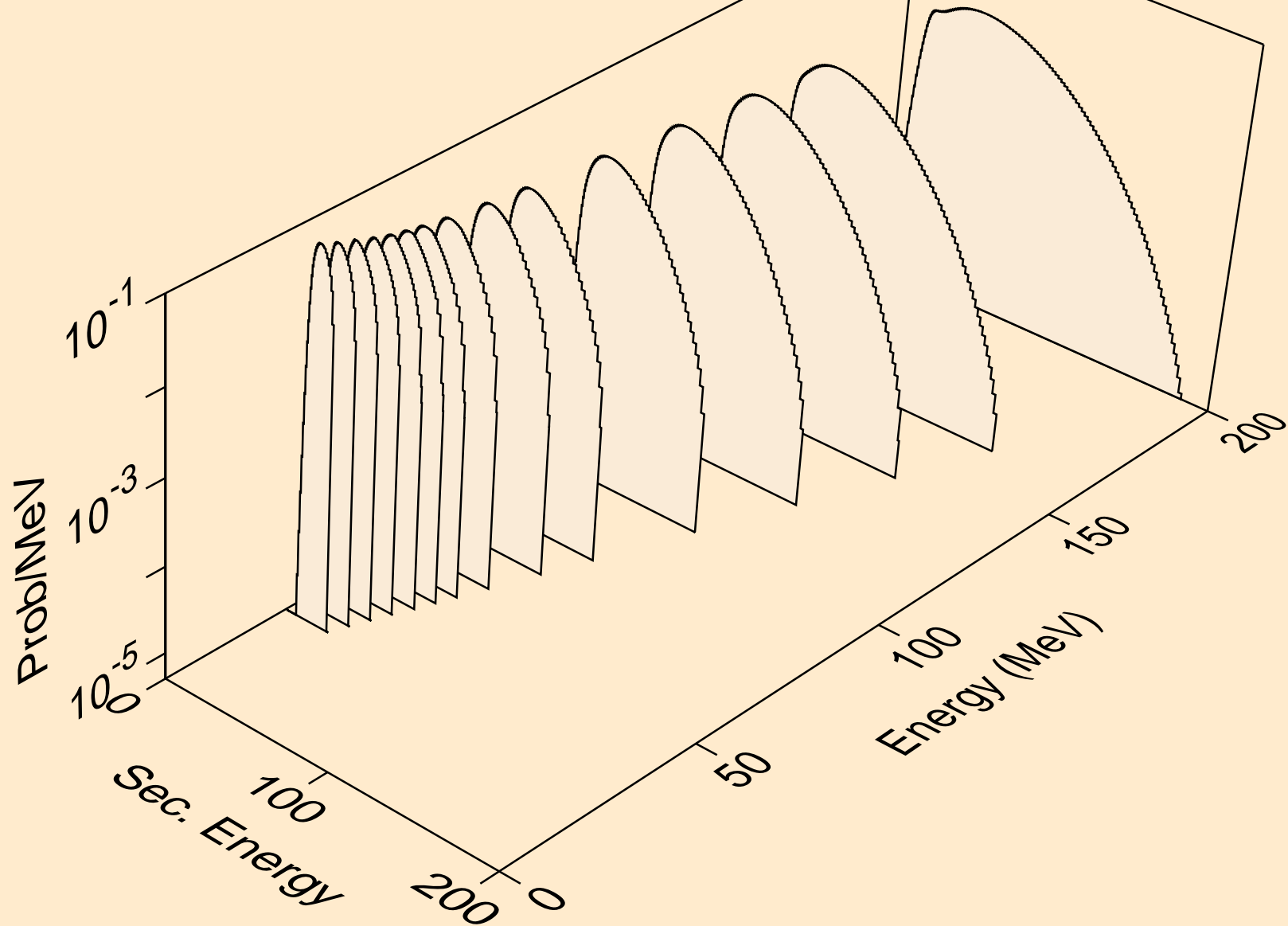




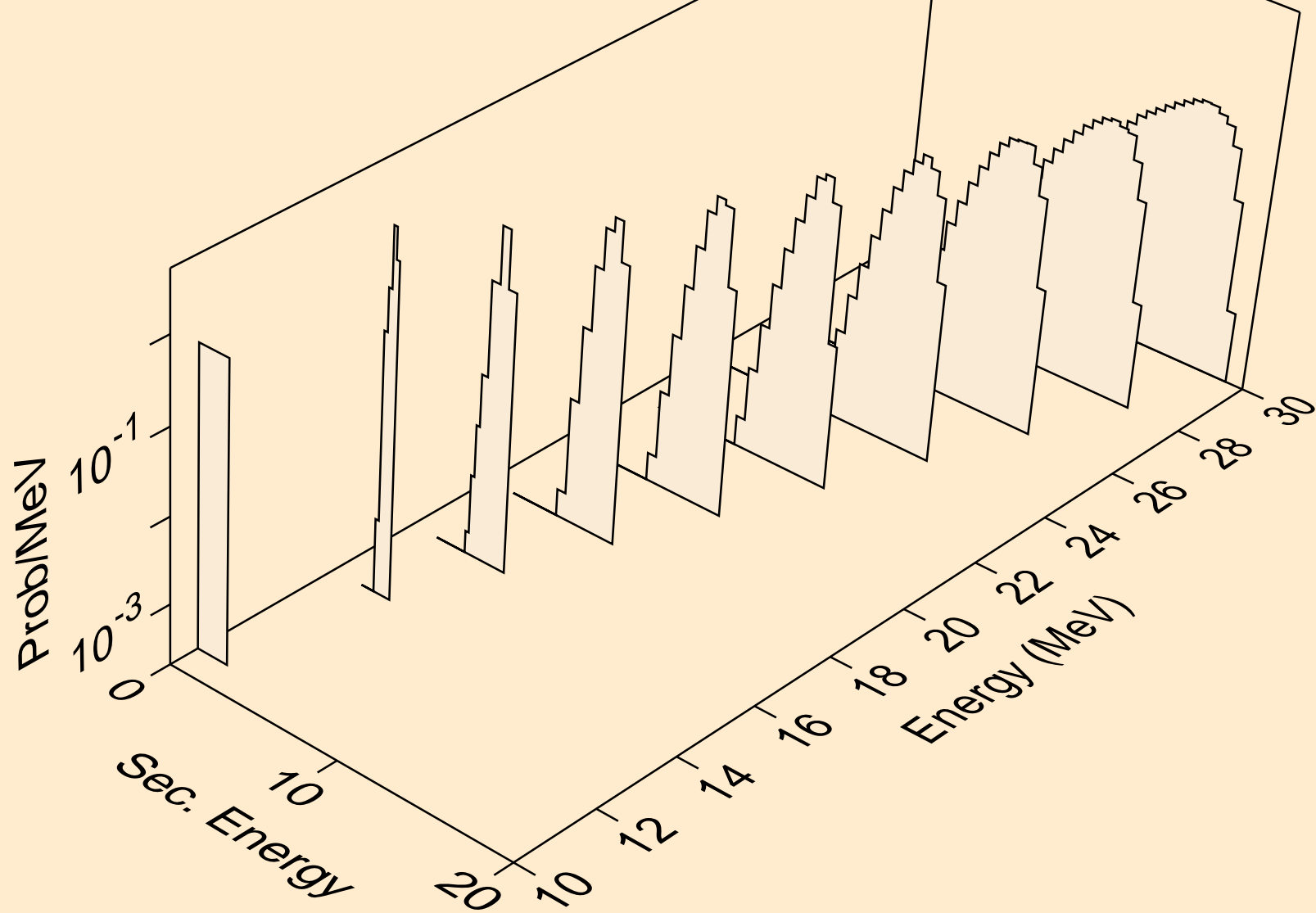
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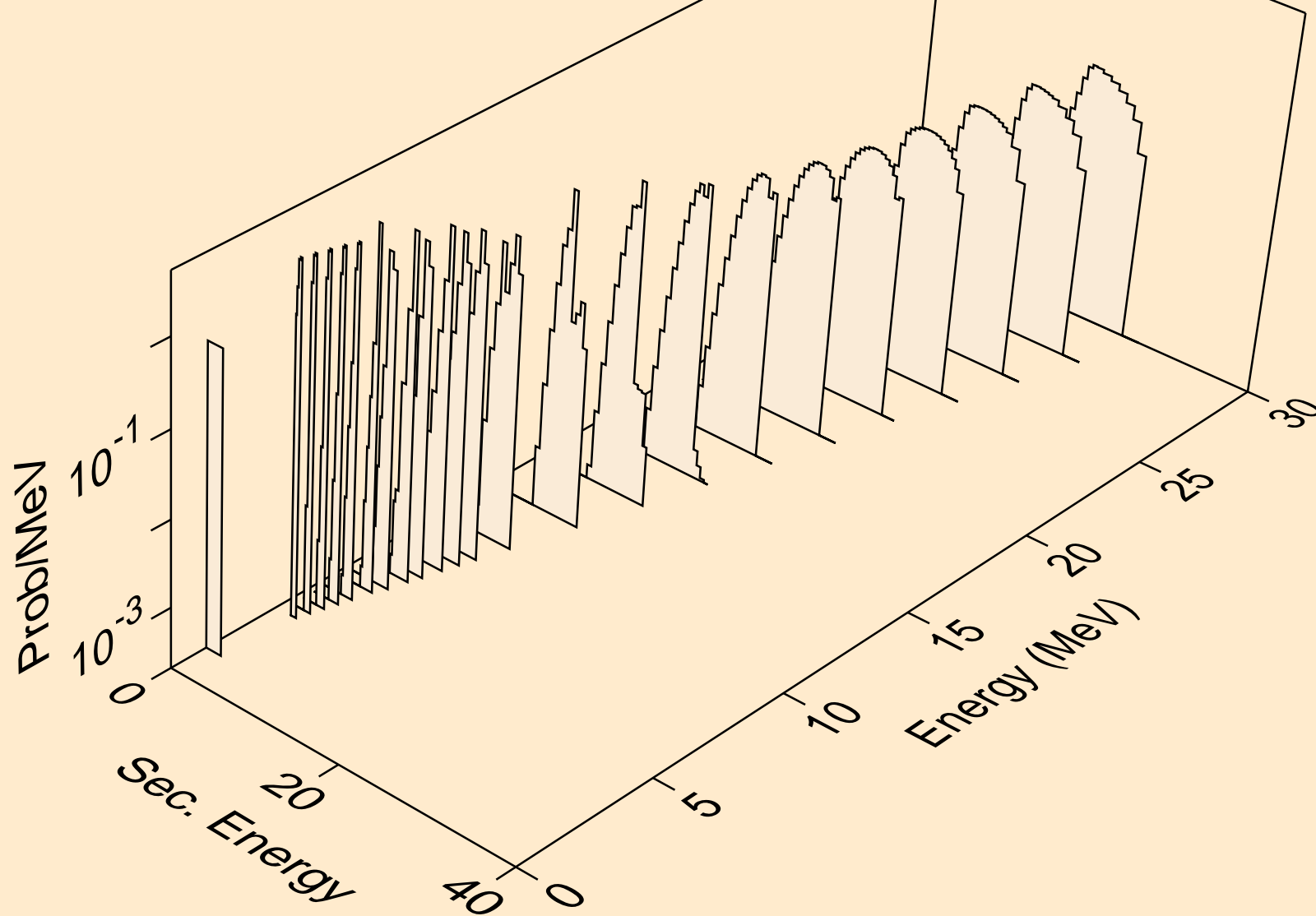
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he3s from (n,x)



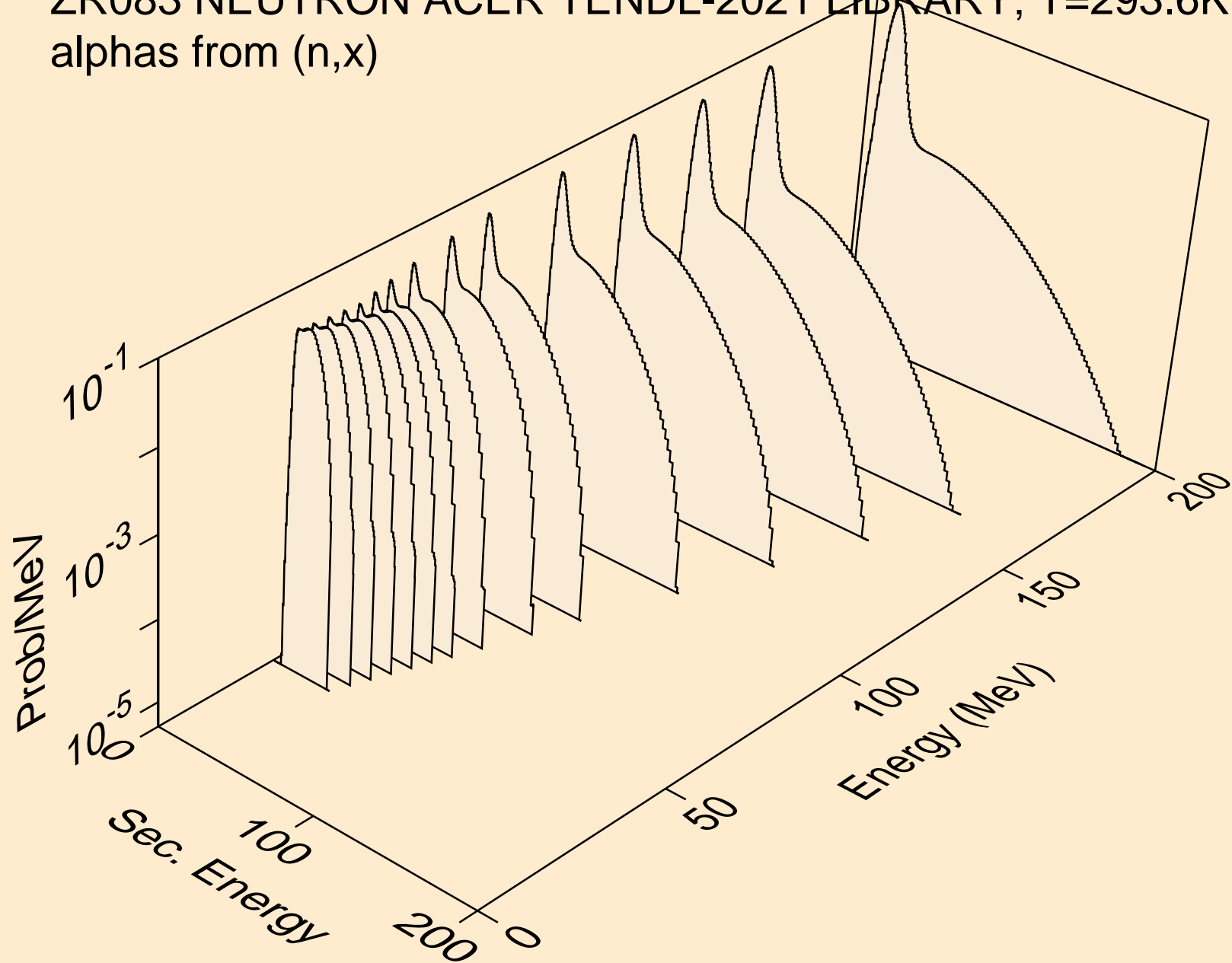
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he3s from (n,n\*)he3



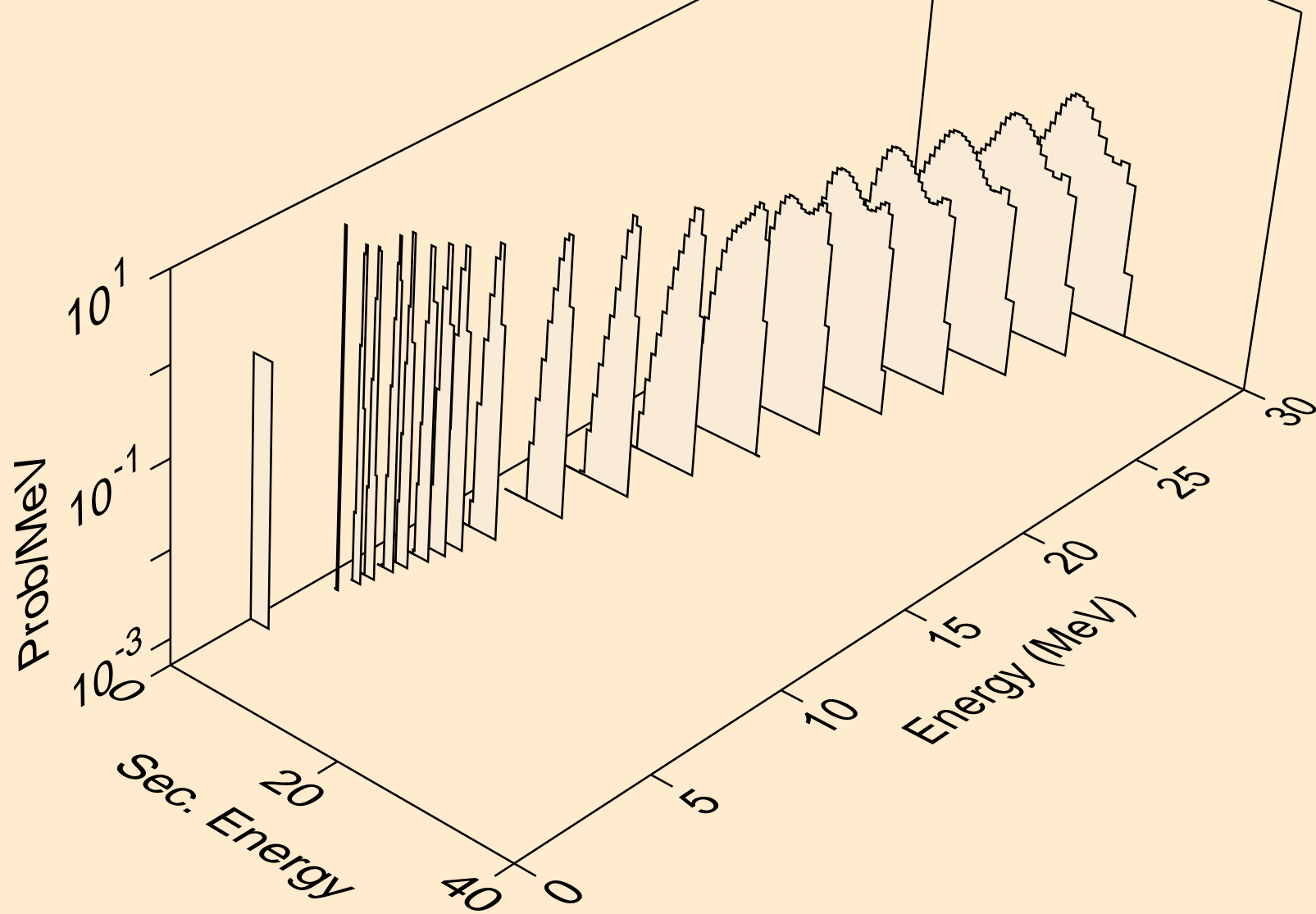
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he3s from (n,he3)



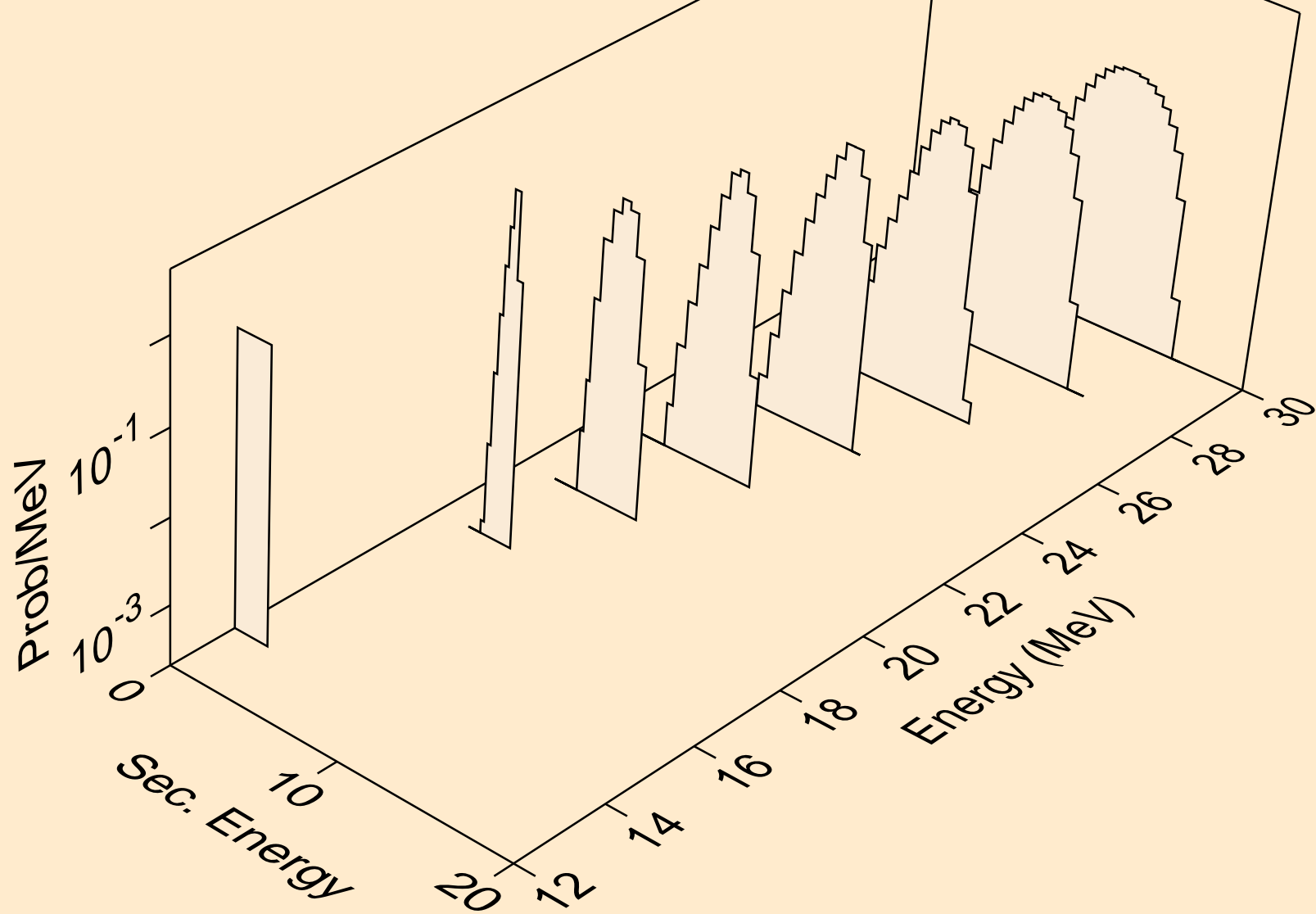
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



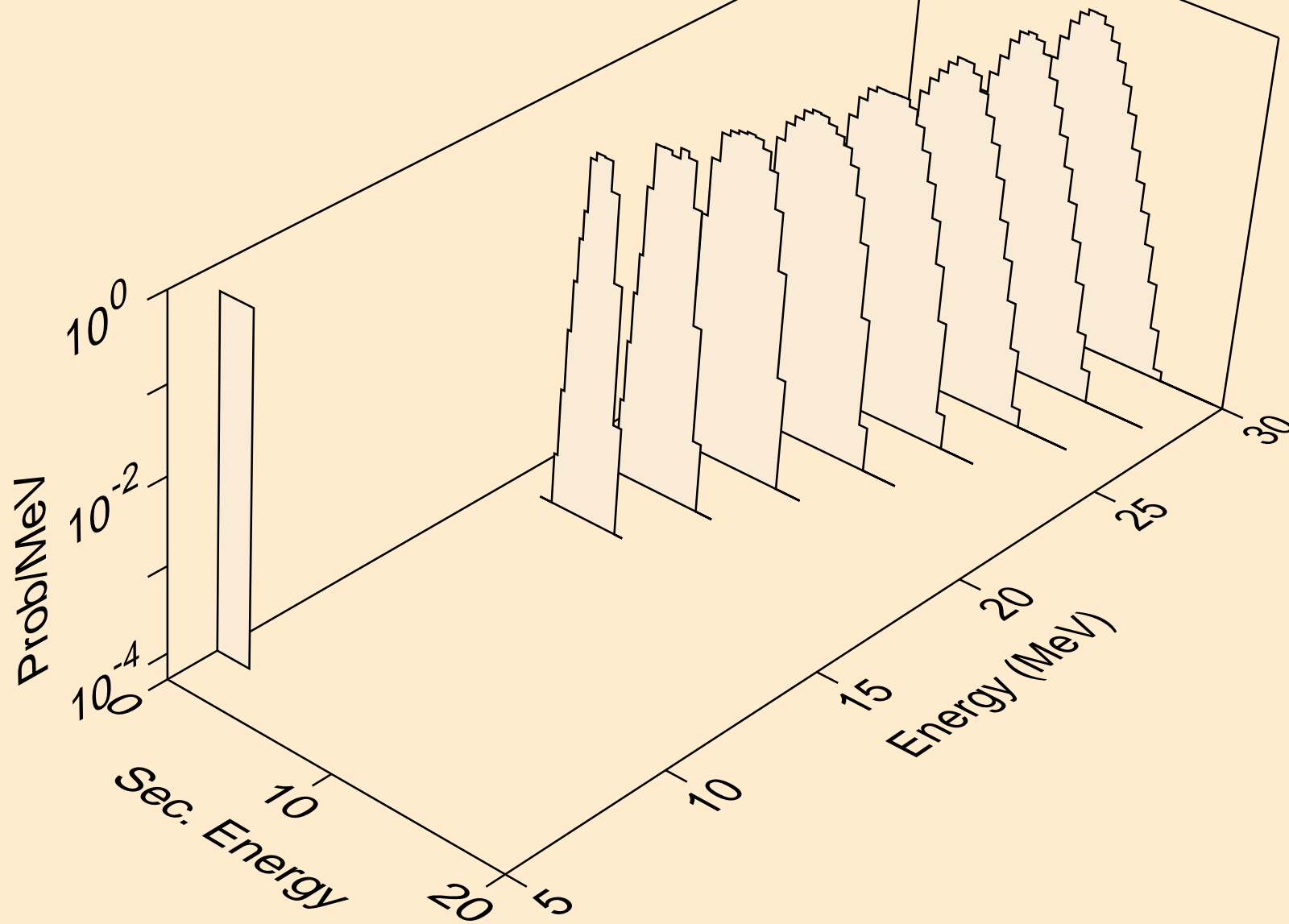
ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a

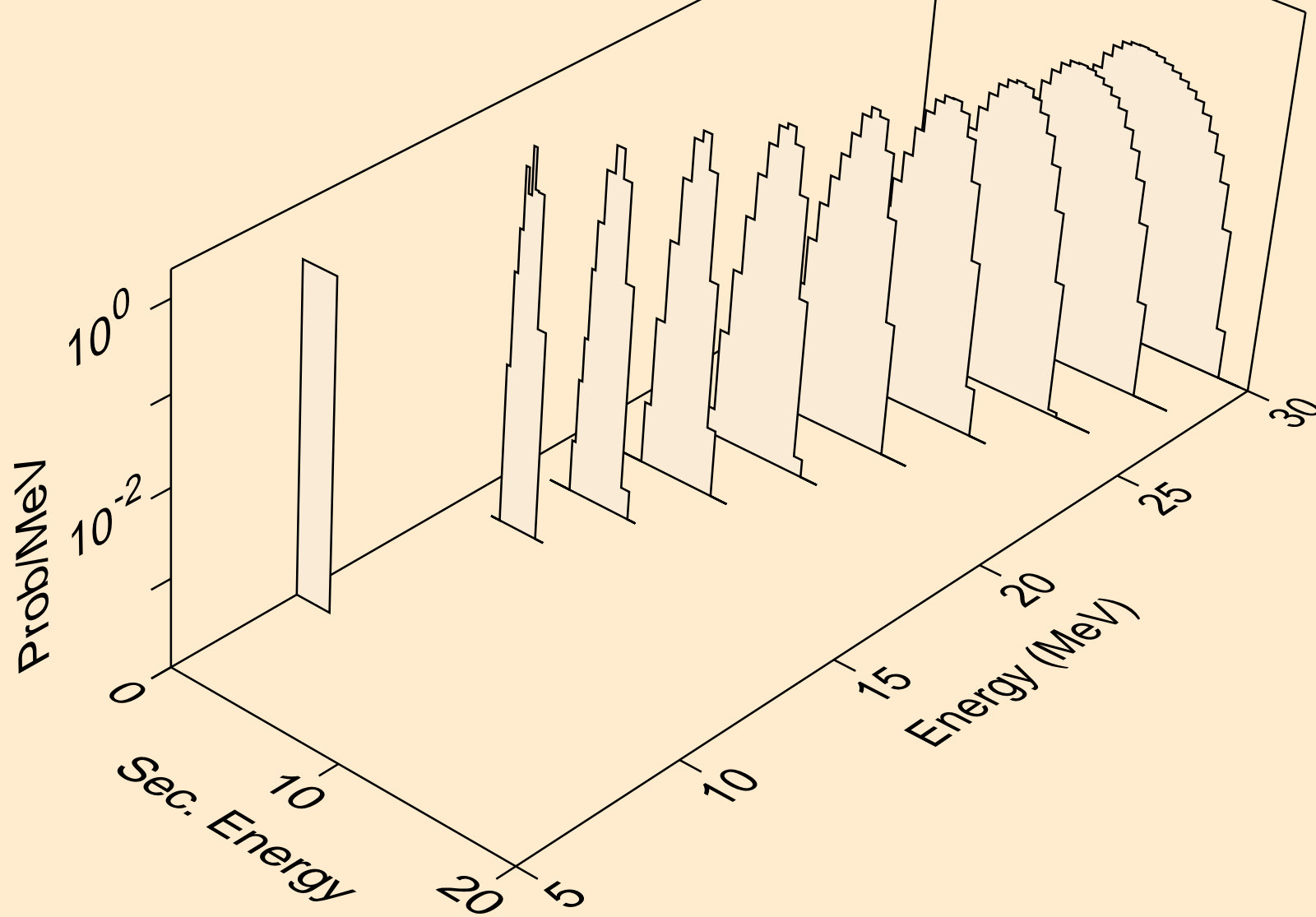


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alphas from (n,n\*)2a

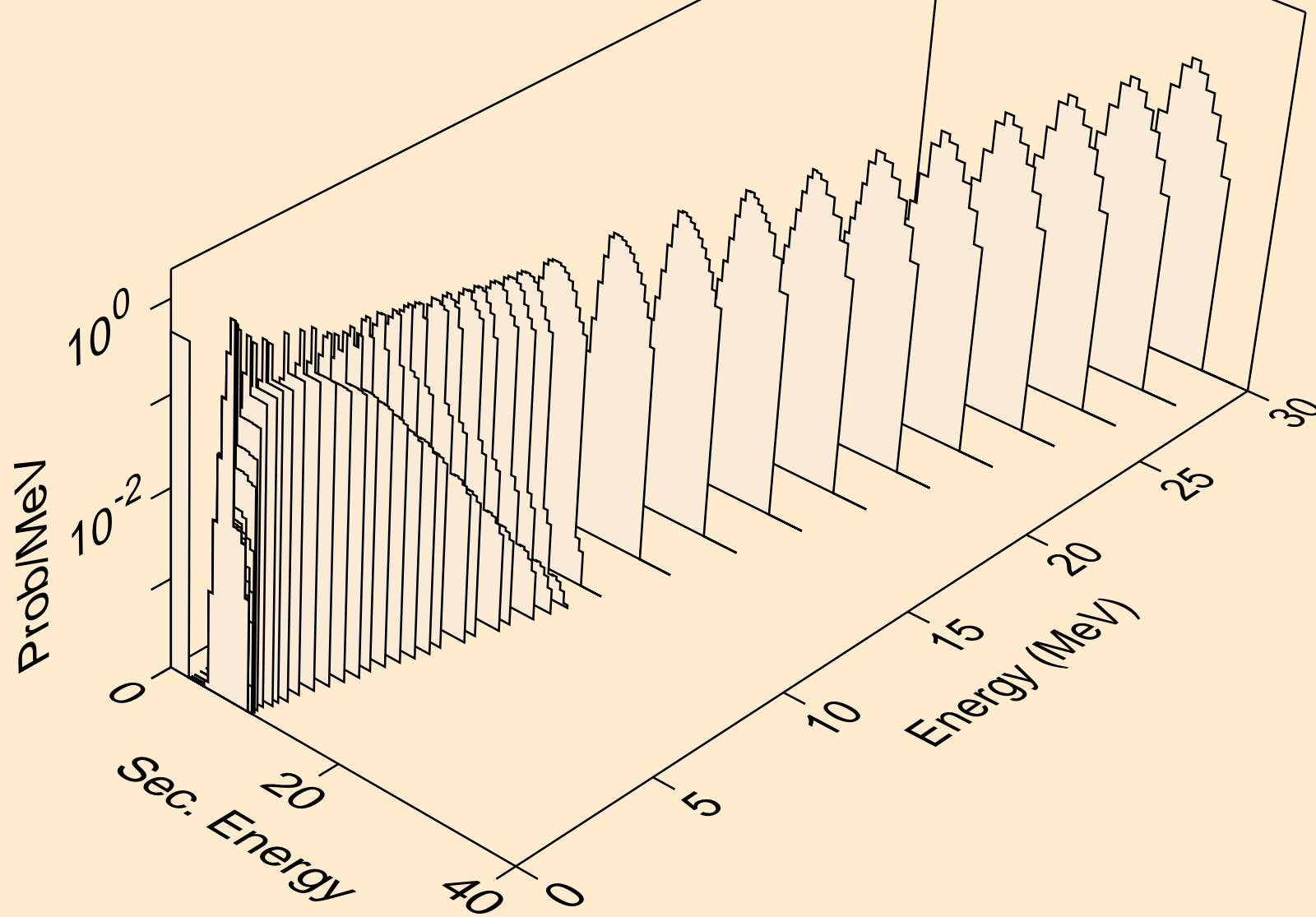




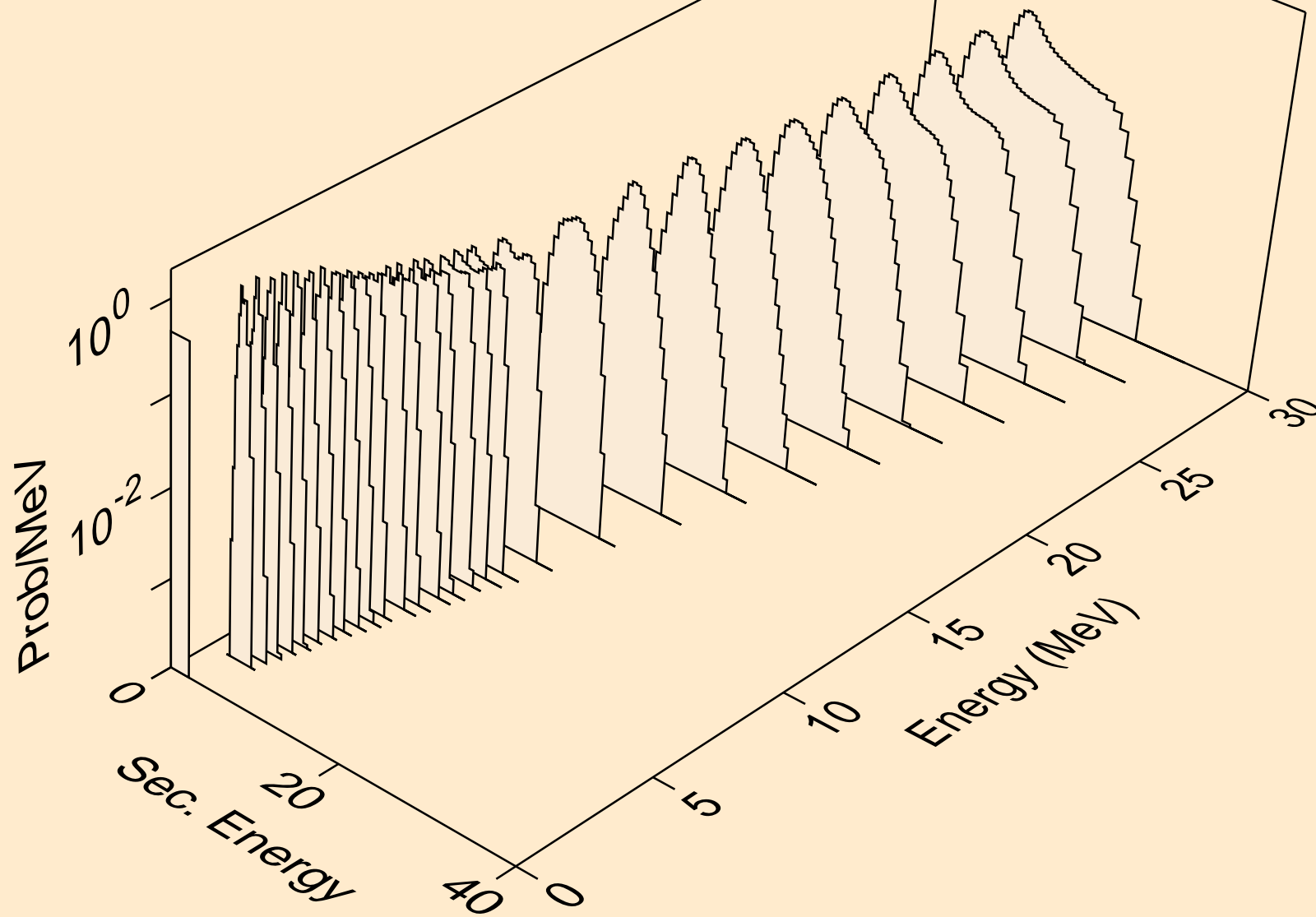
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alphas from (n,npa)



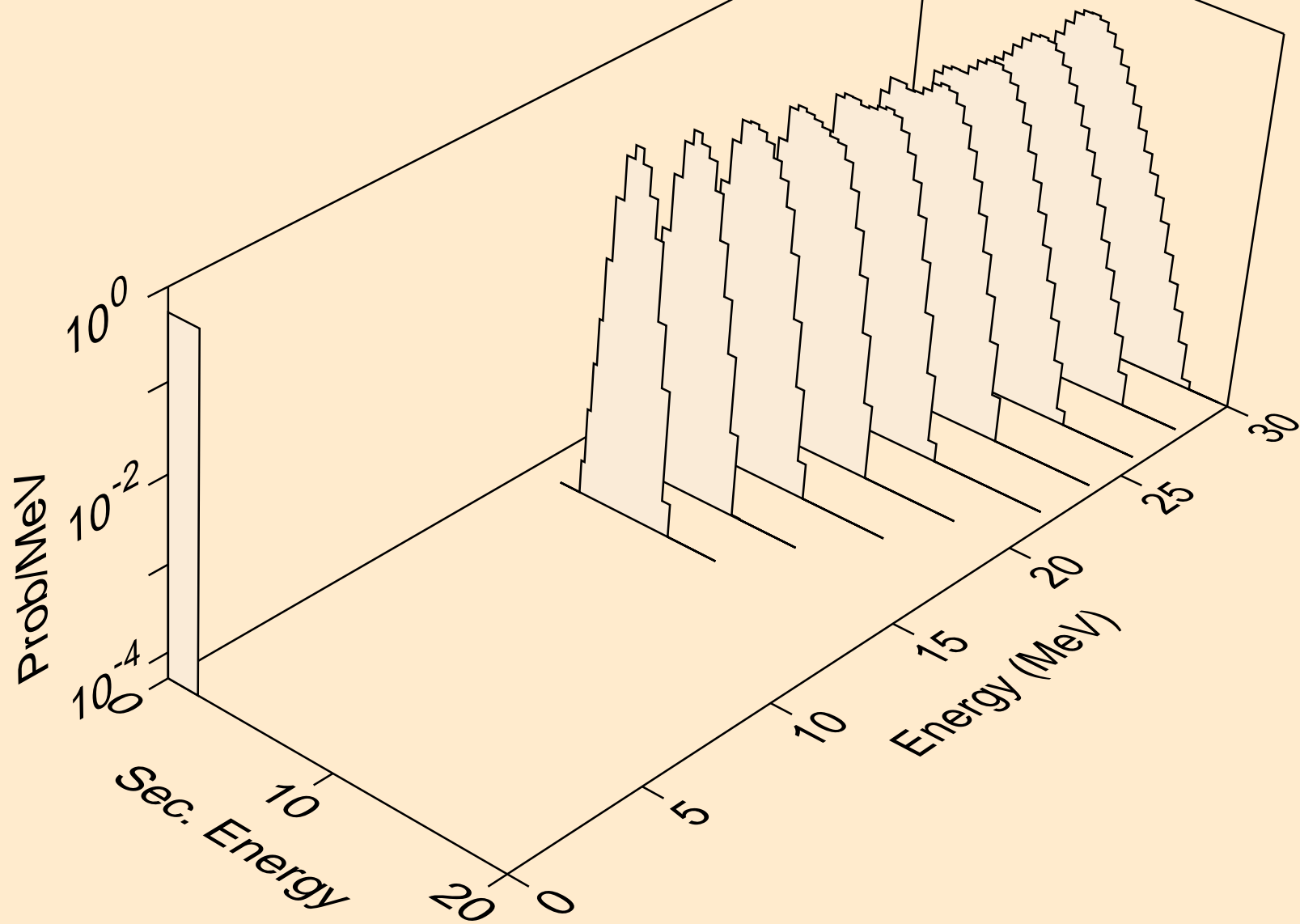
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alphas from (n,a)



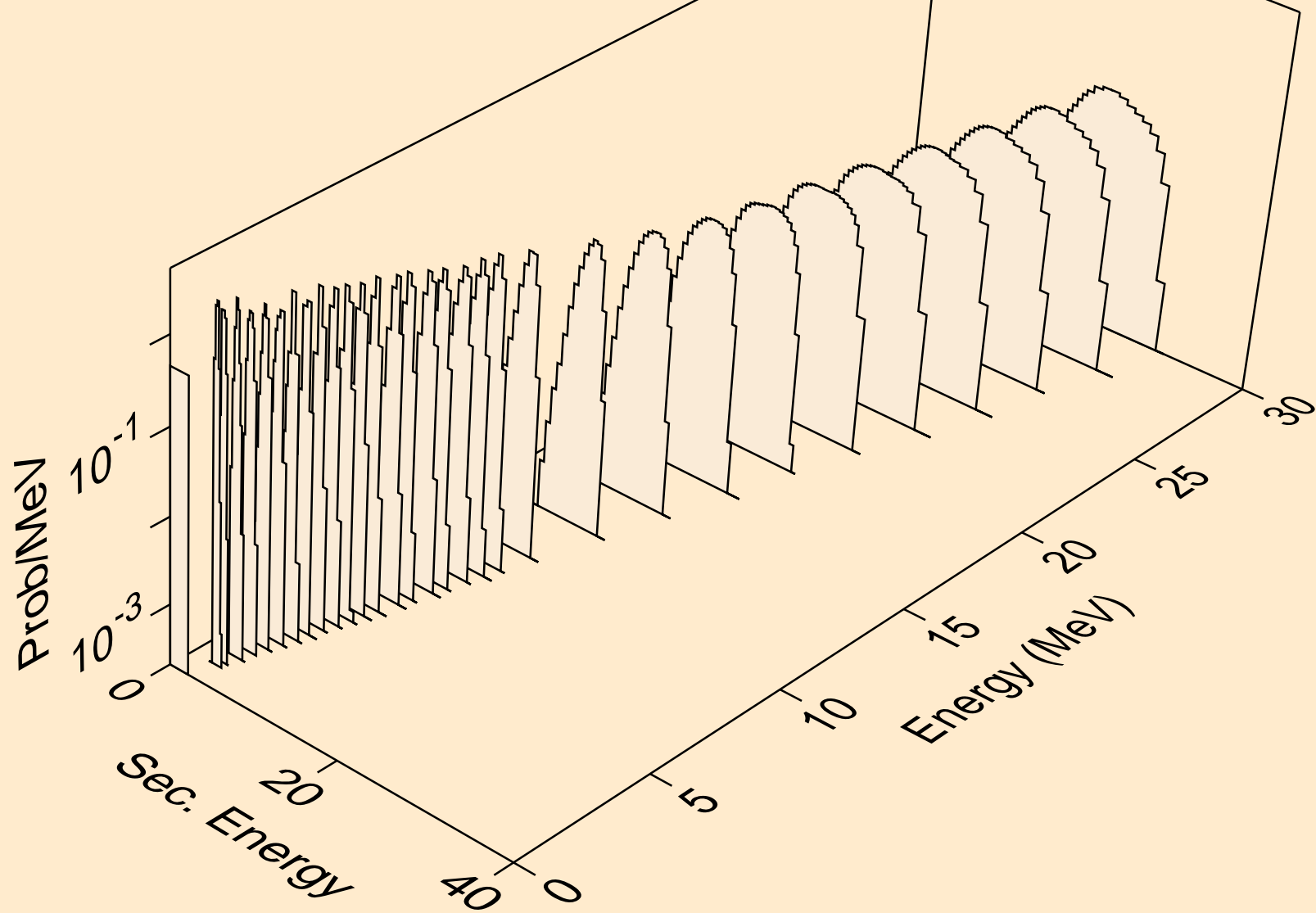
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alphas from (n,2a)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3a)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)



ZR083 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

