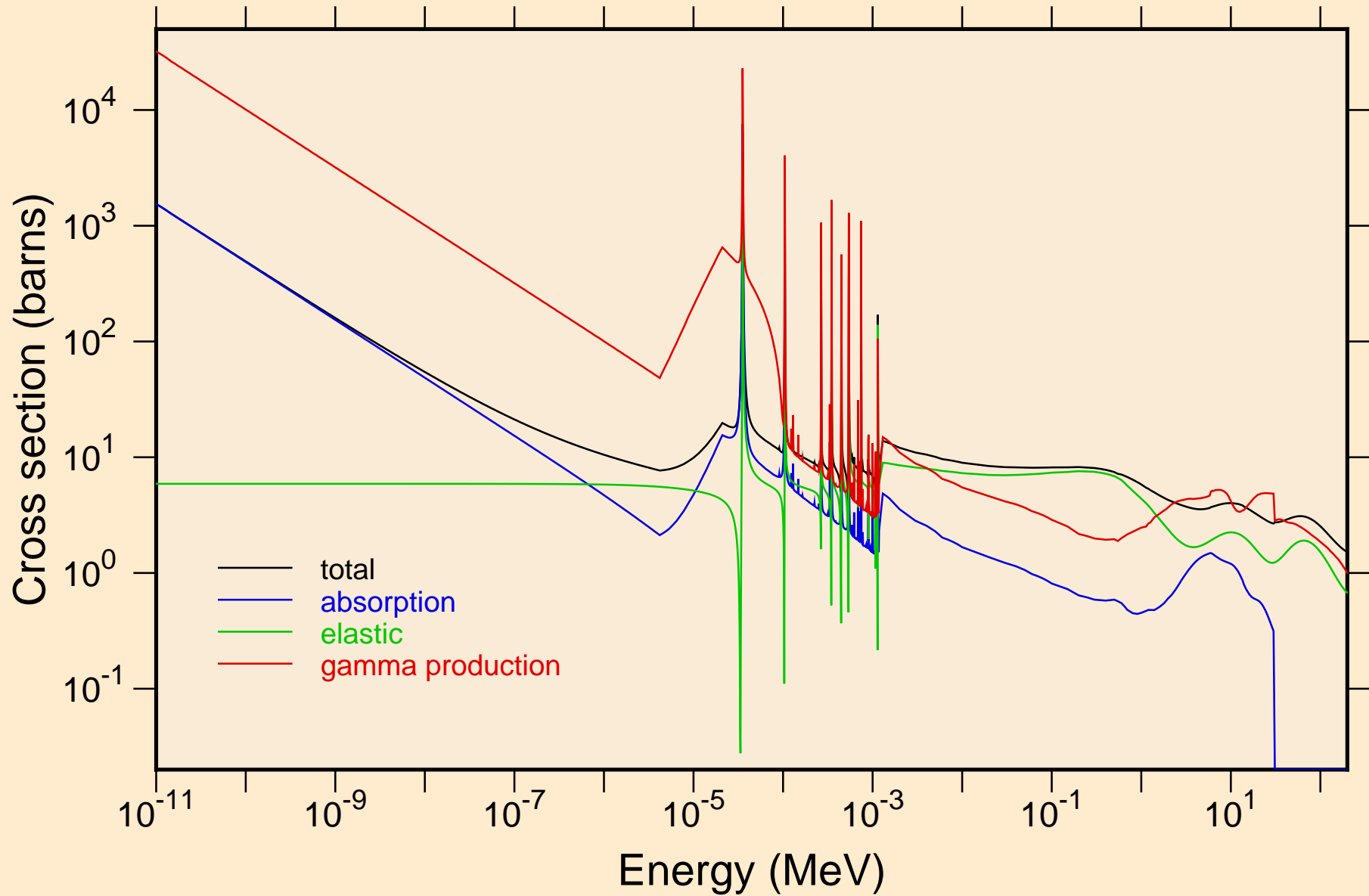
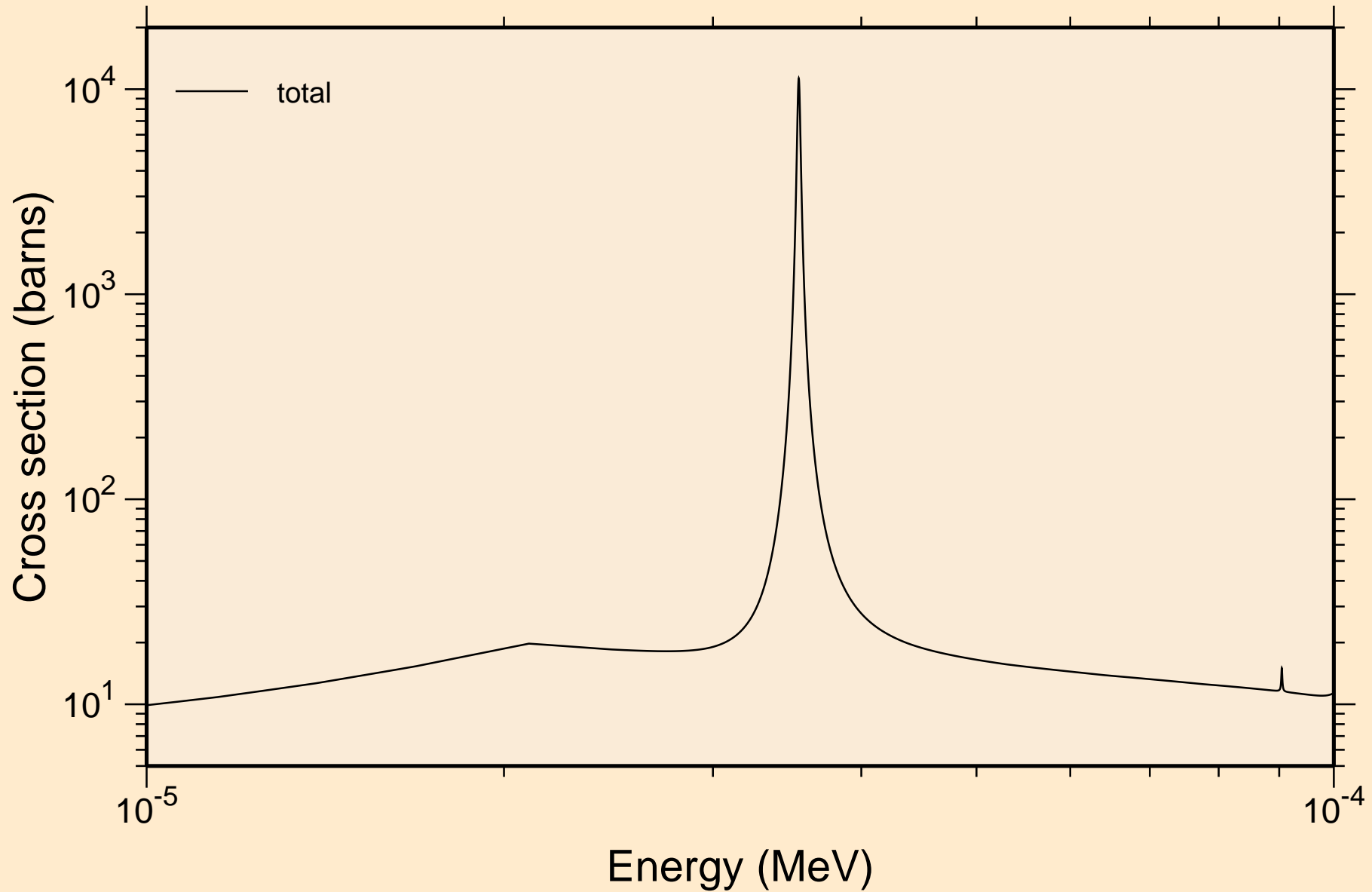


# ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

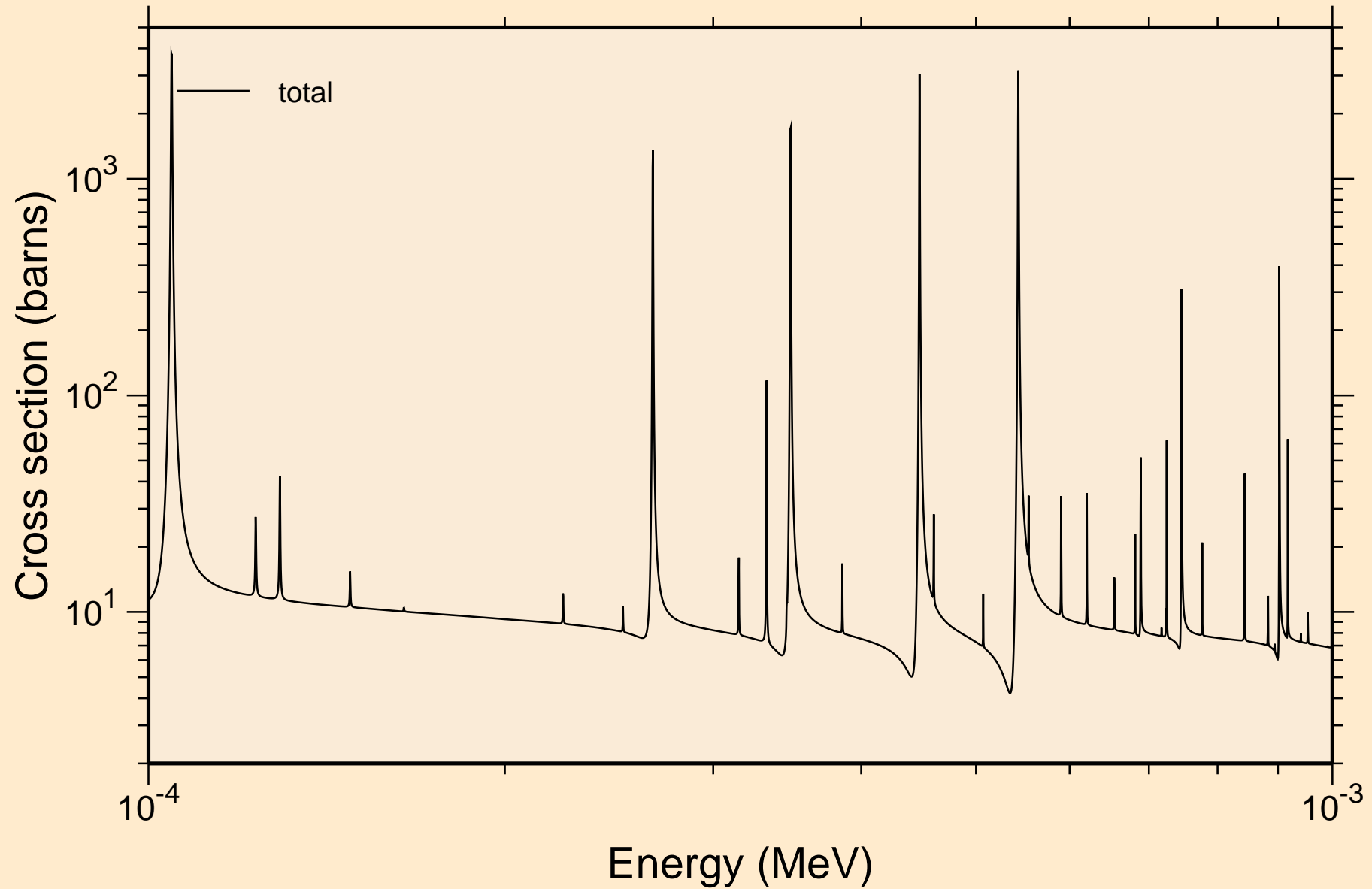
## Principal cross sections



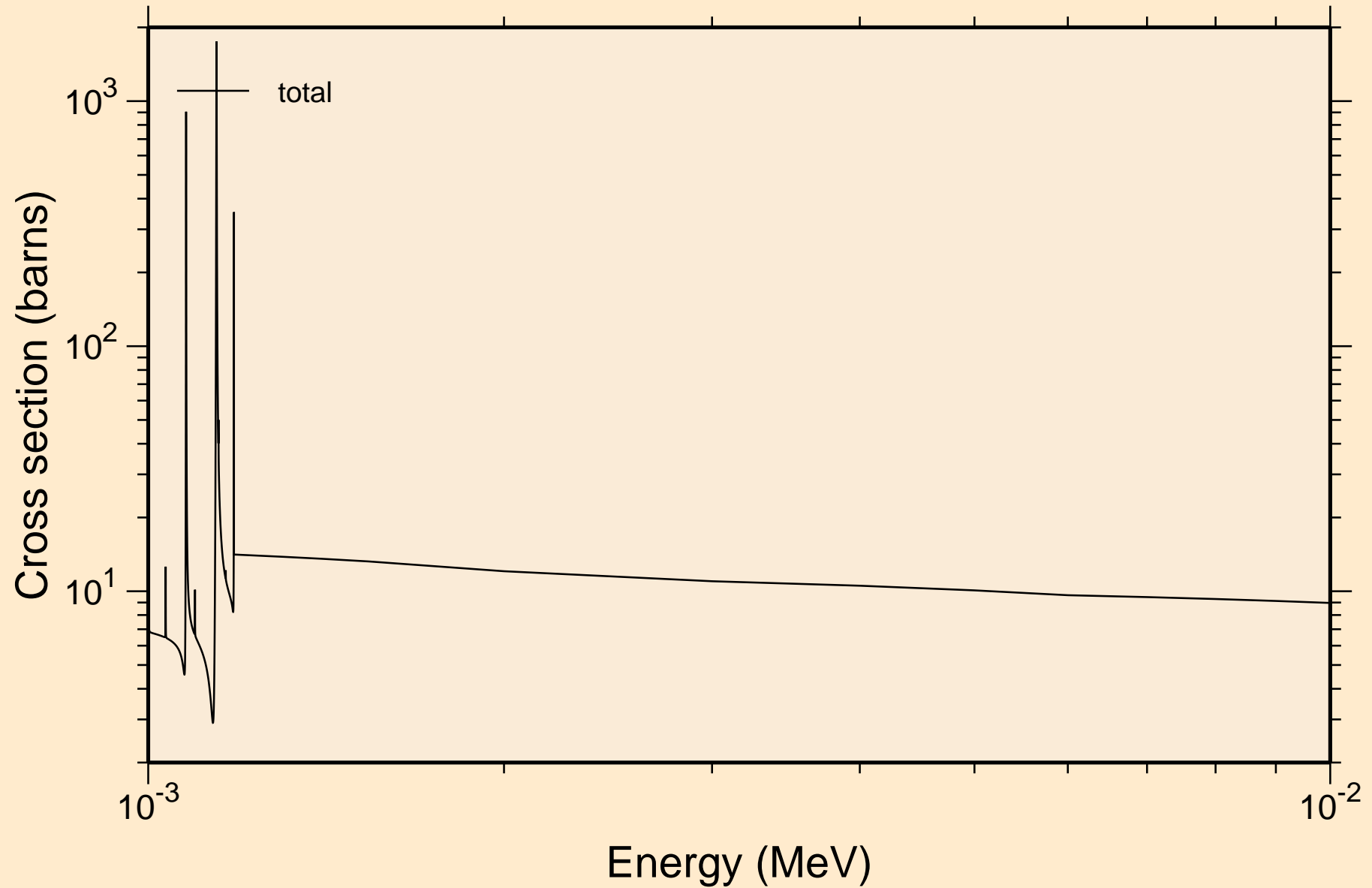
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resonance total cross section



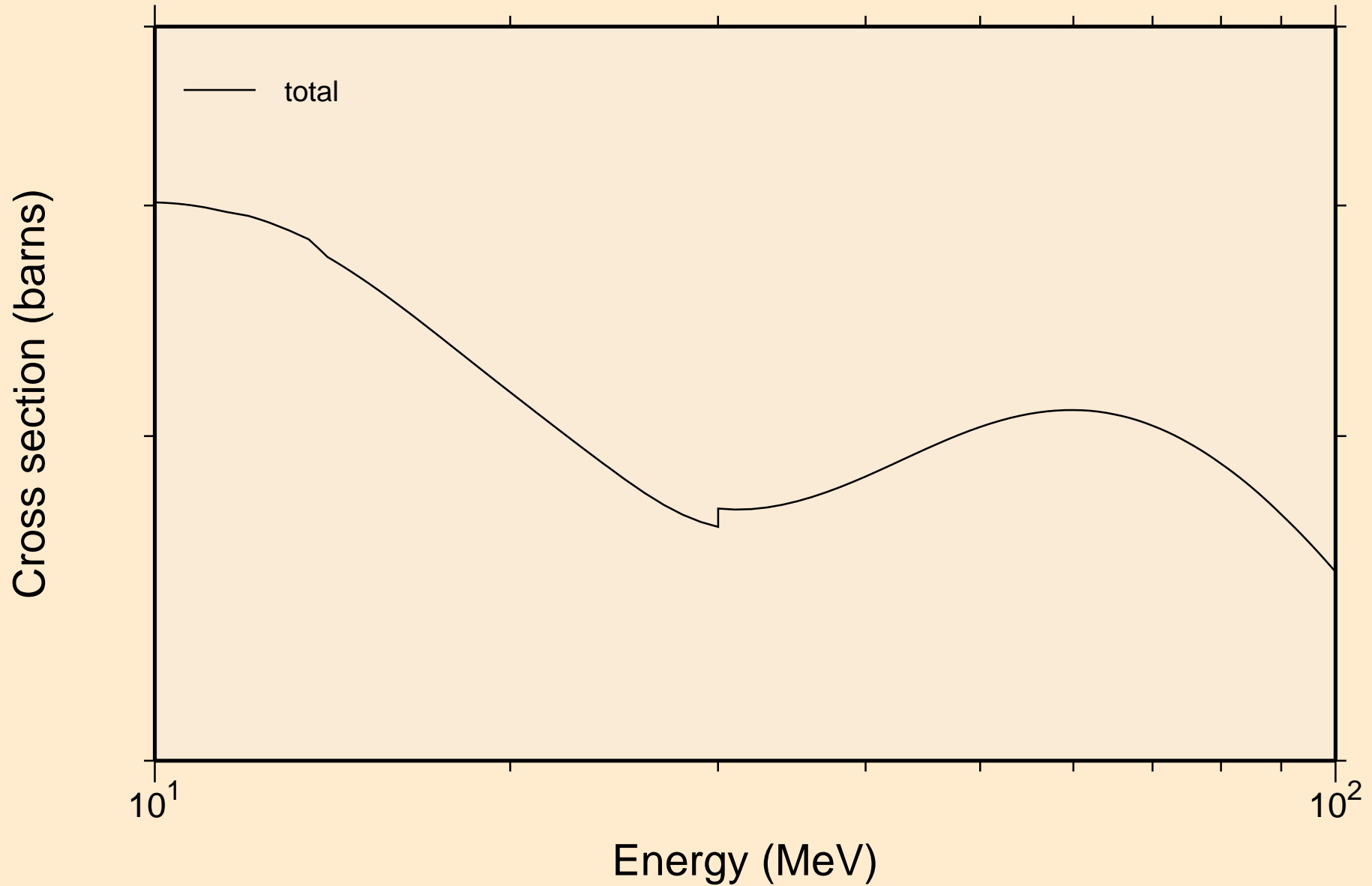
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resonance total cross section



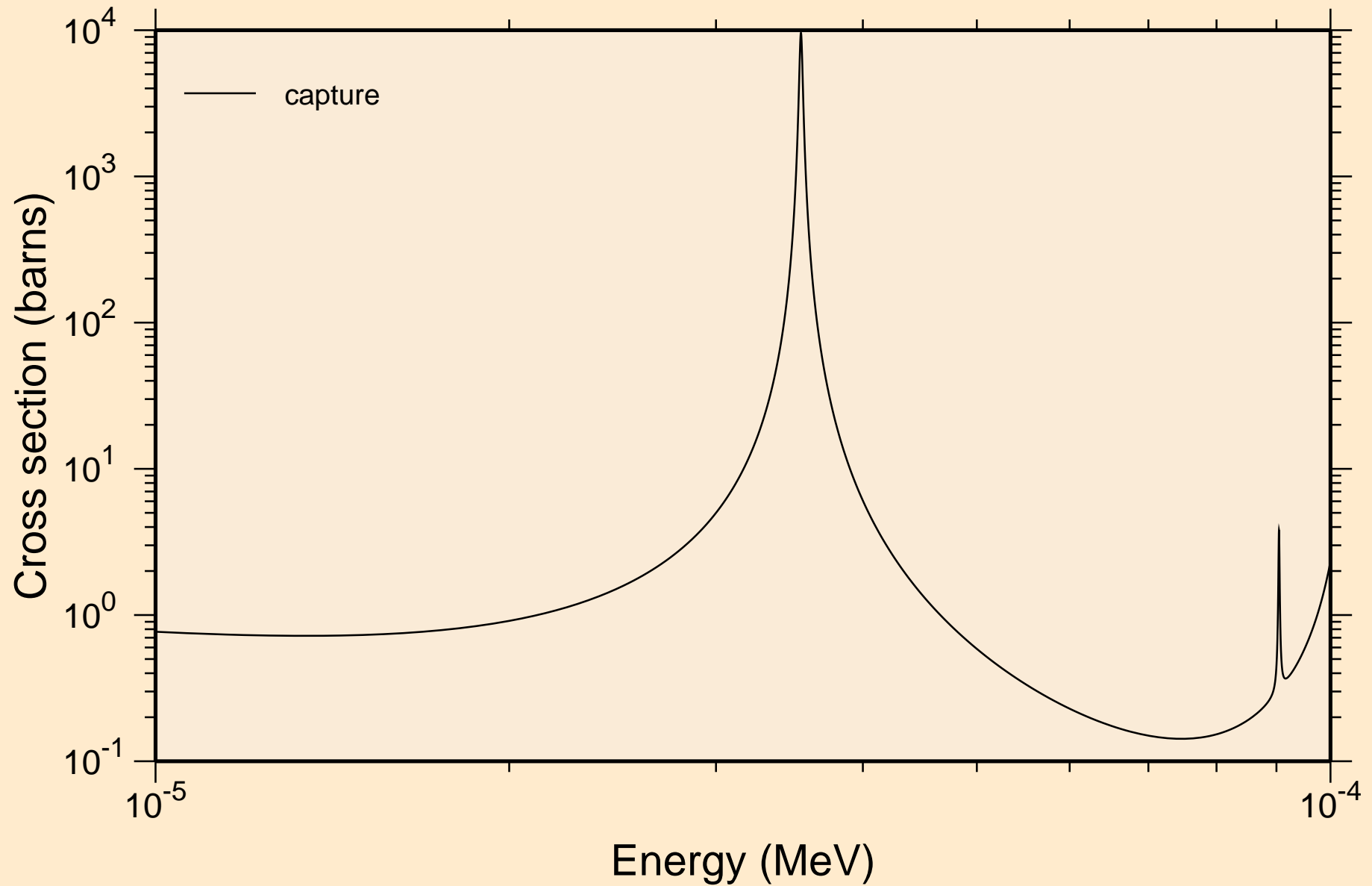
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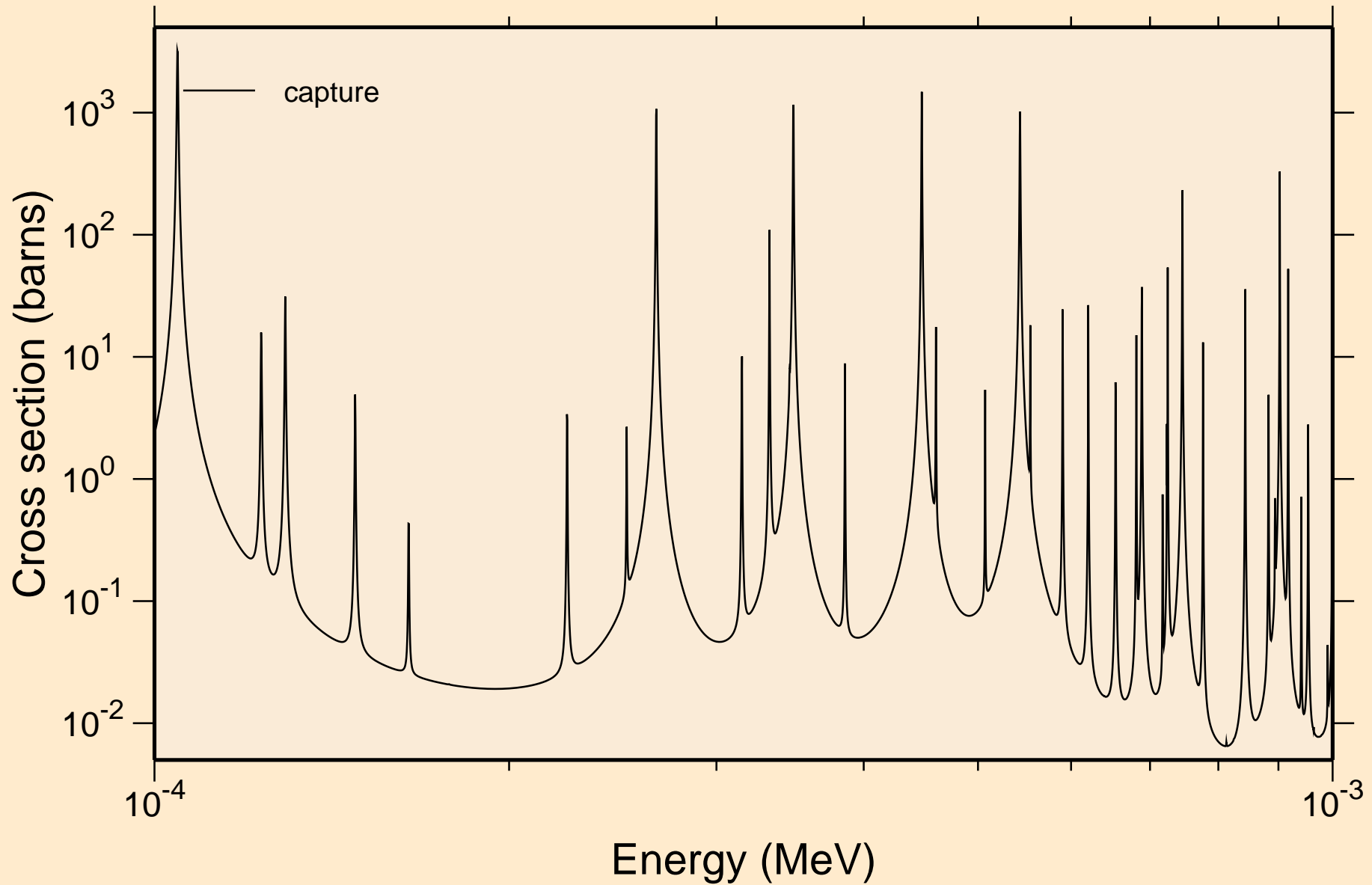
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



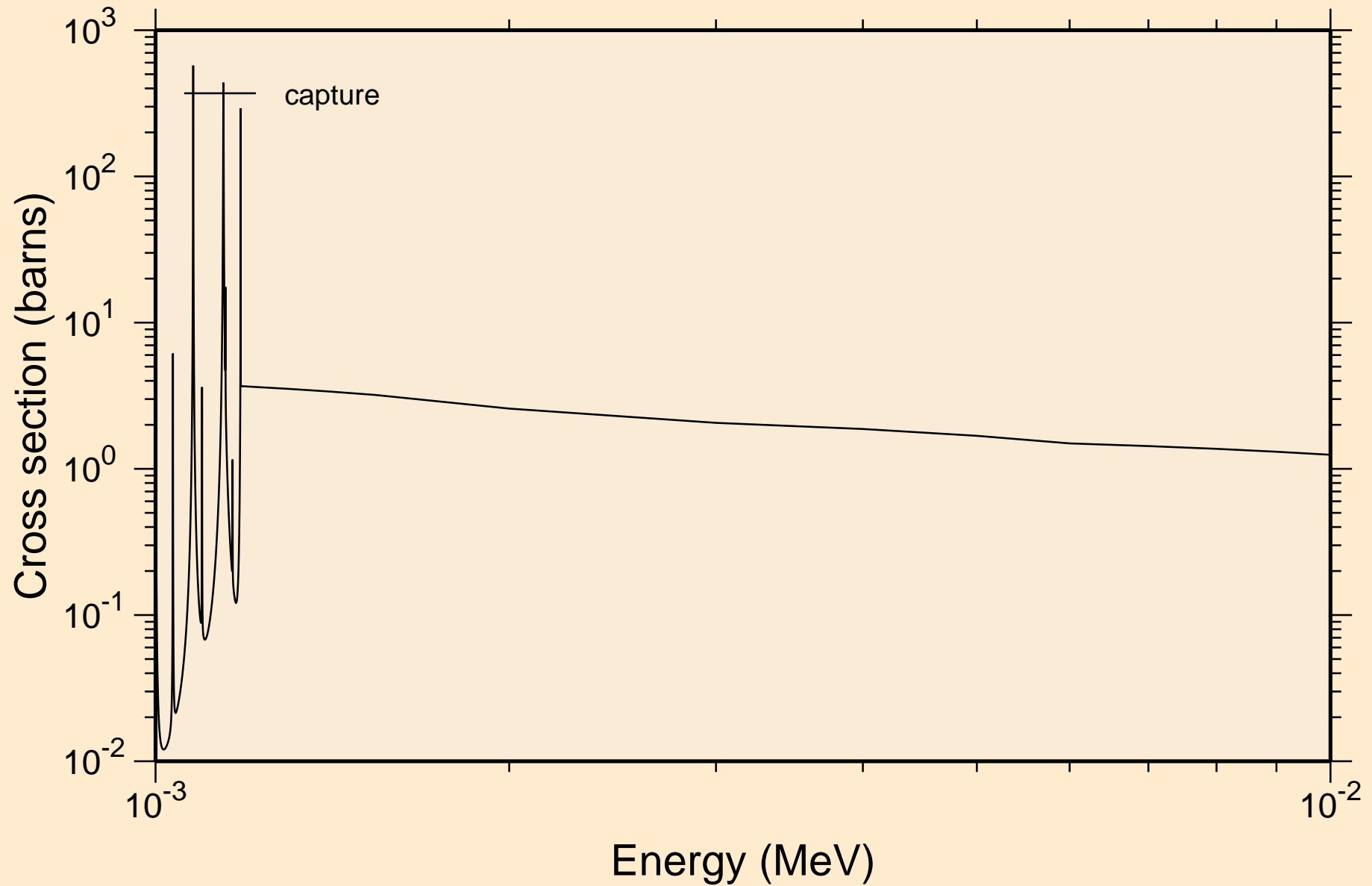
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

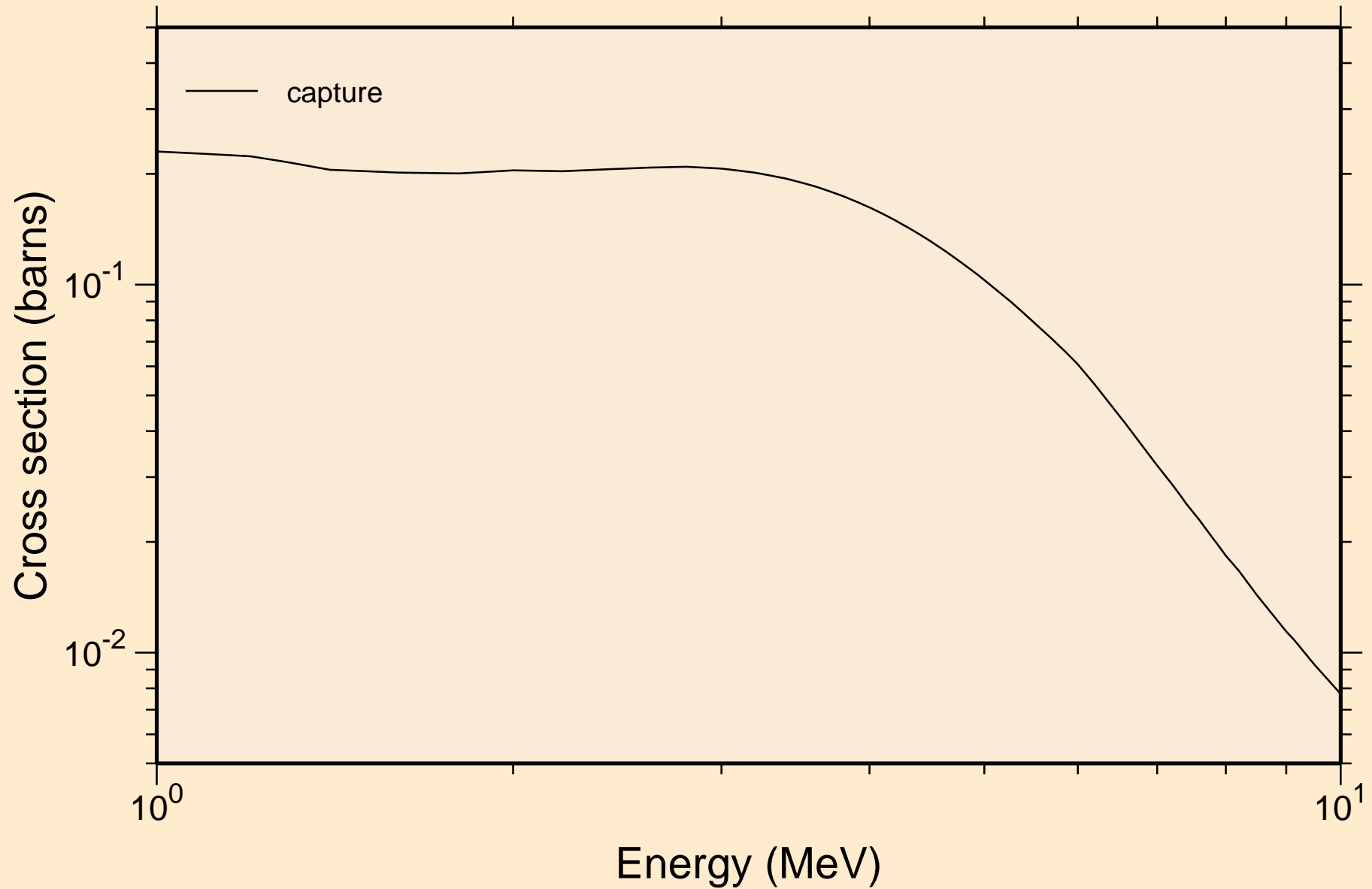


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



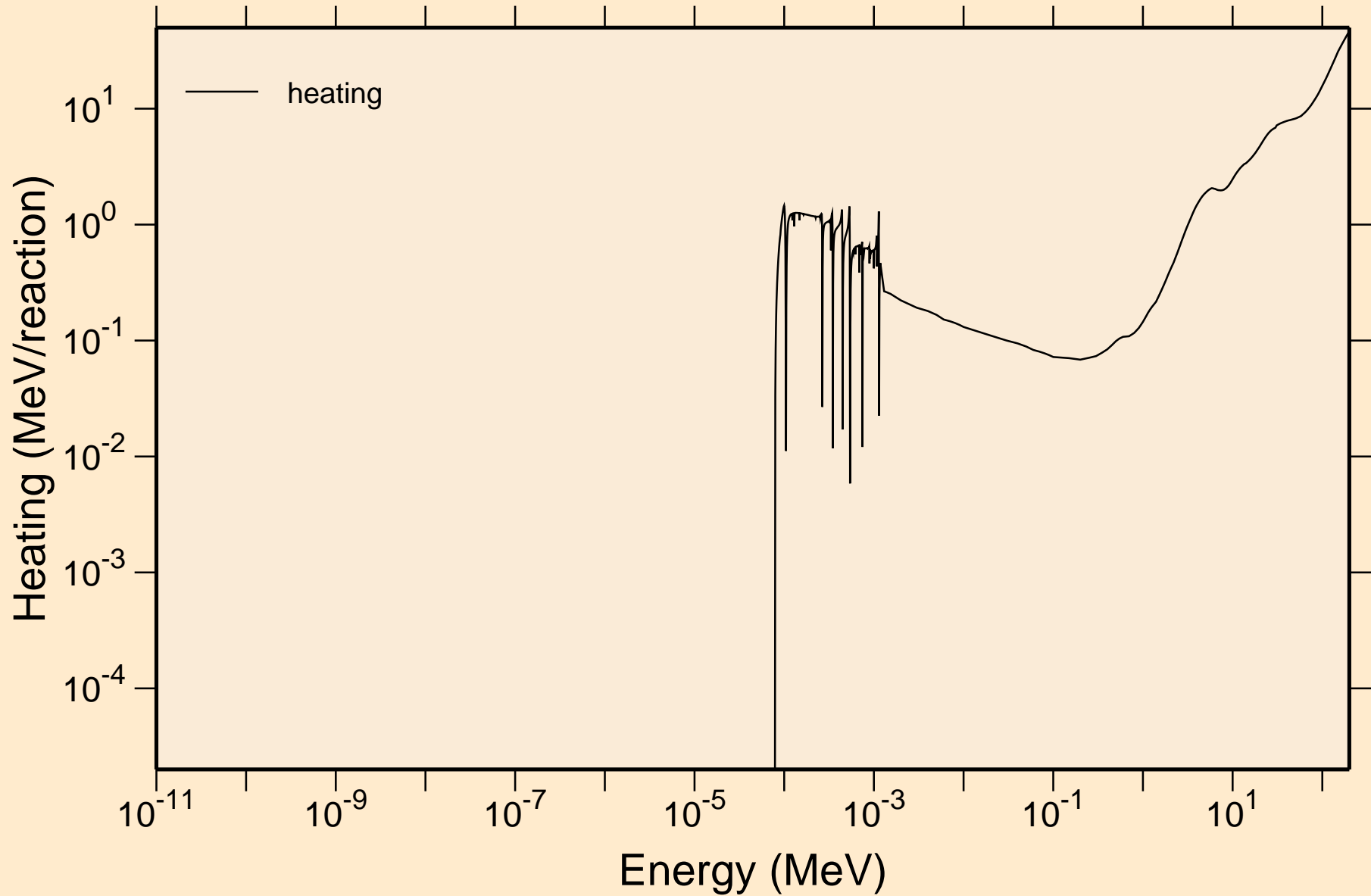


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



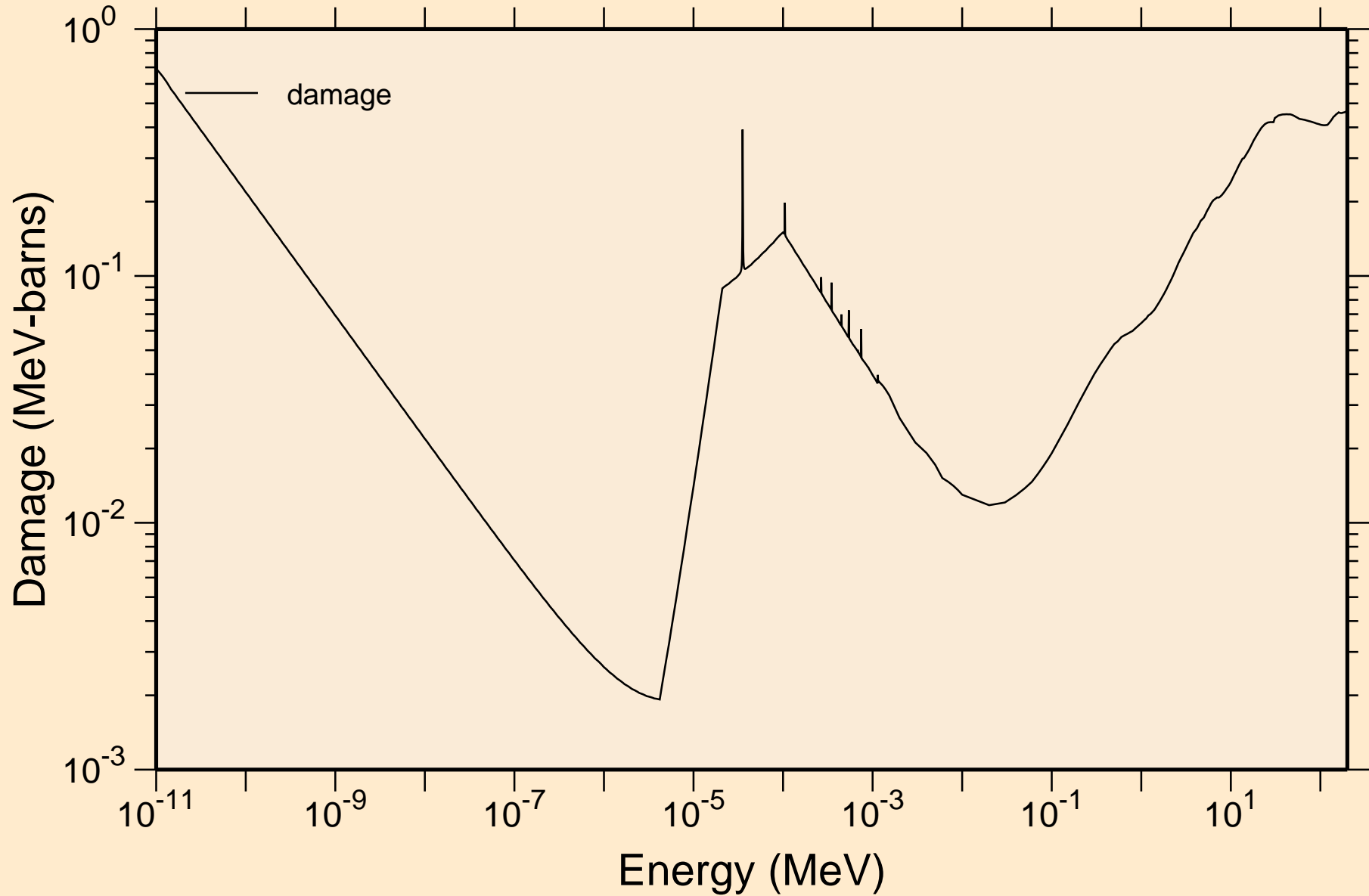
# ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating



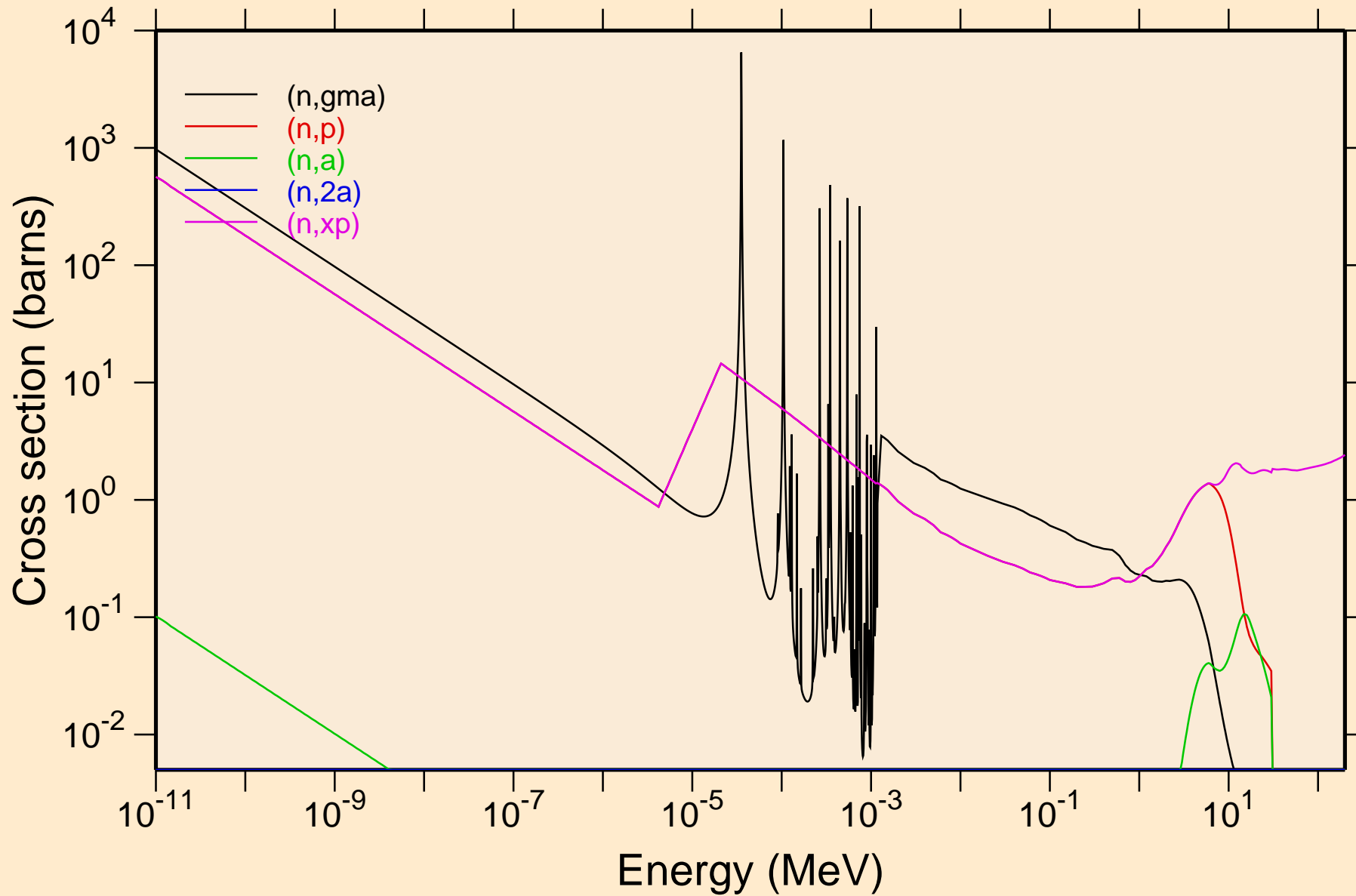
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## Damage

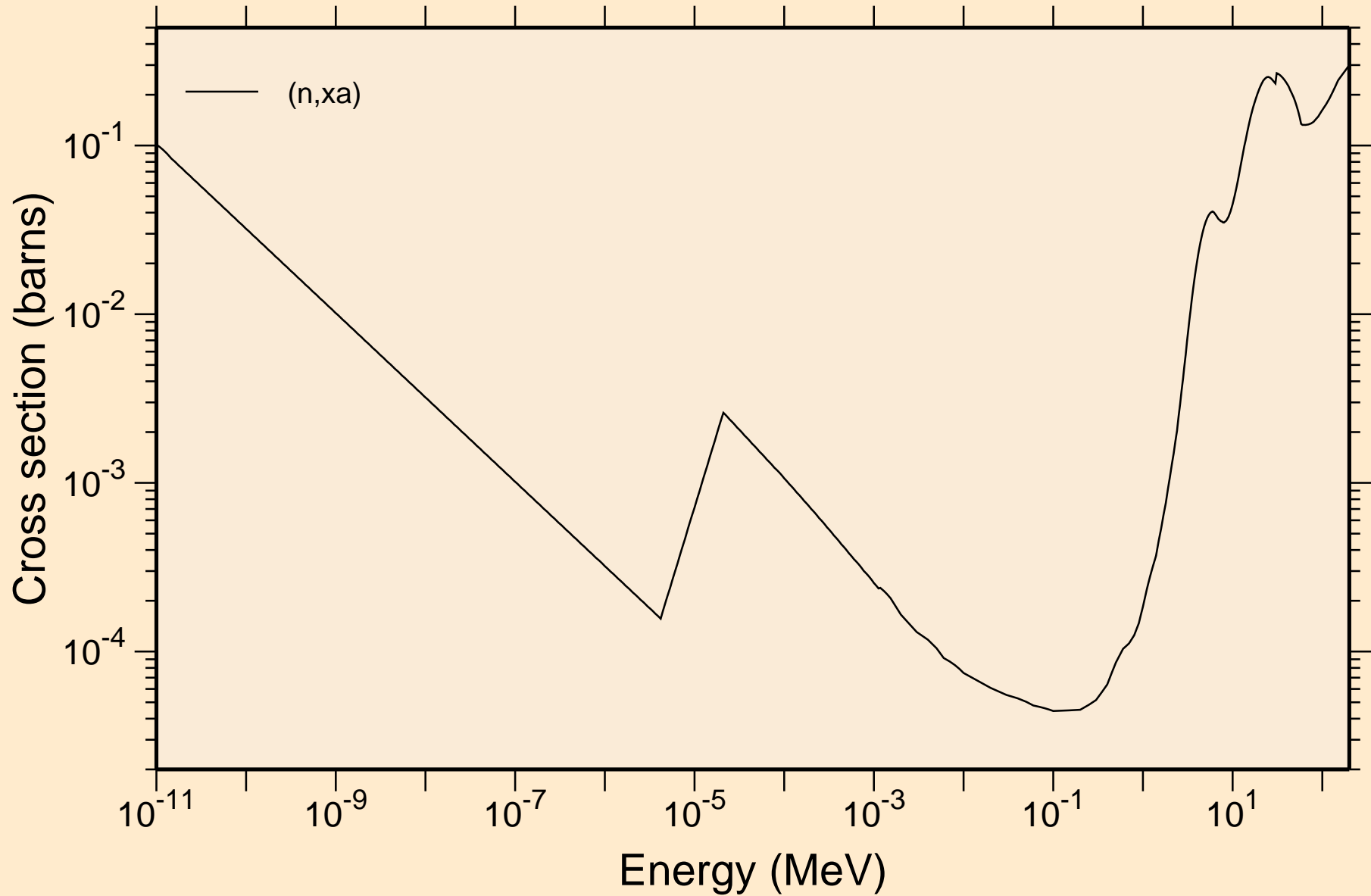


# ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions

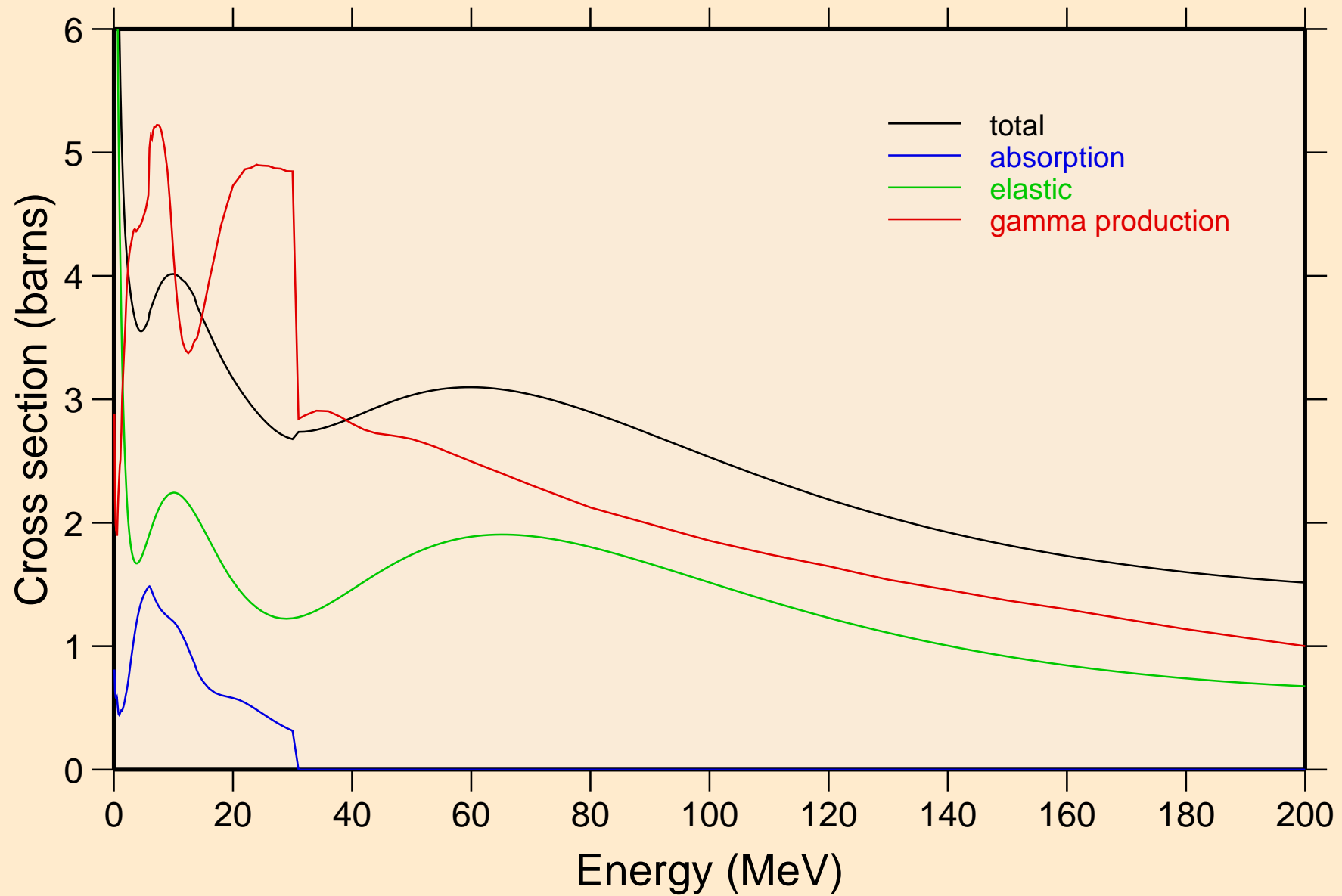


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



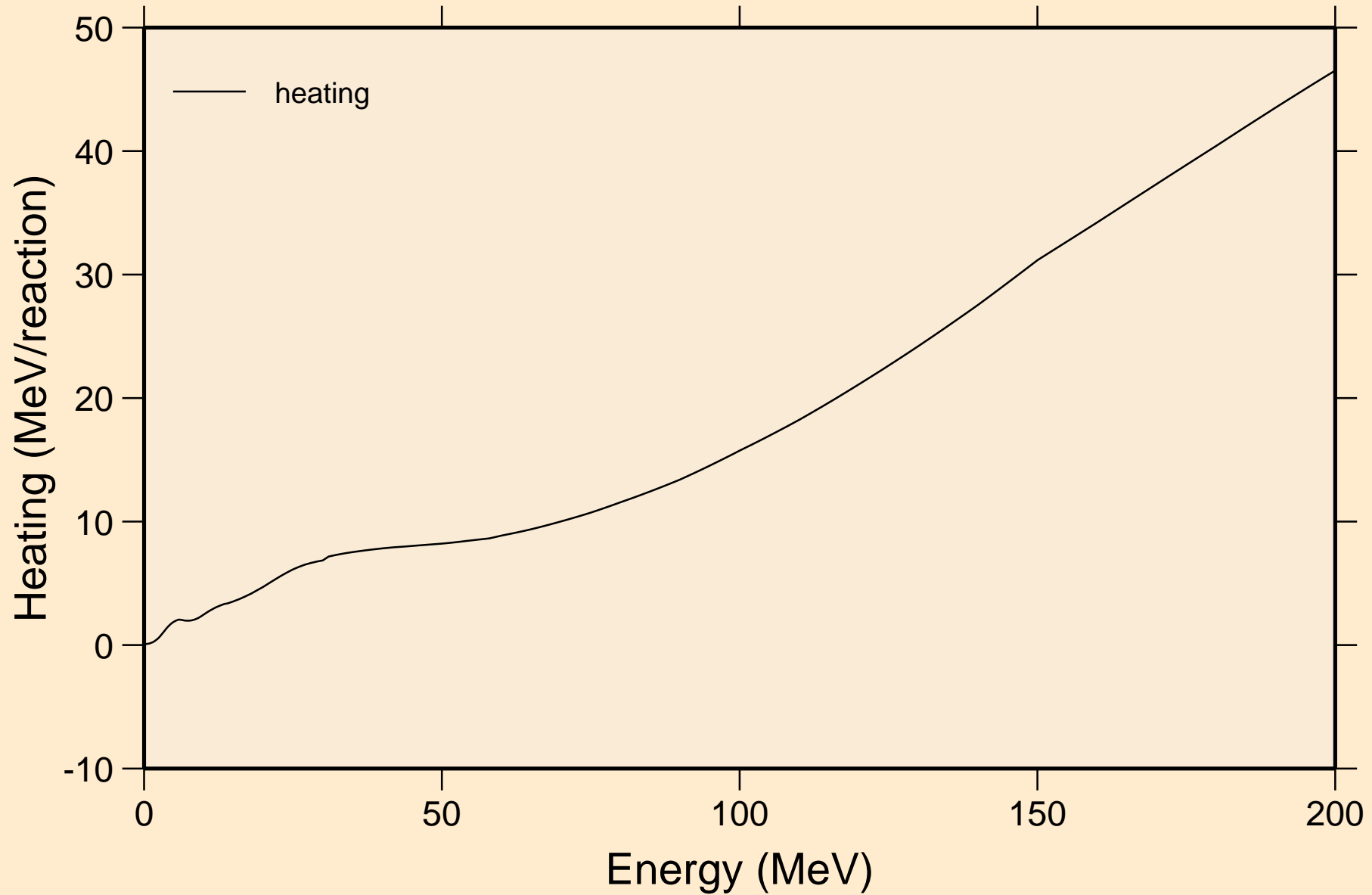
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## Principal cross sections



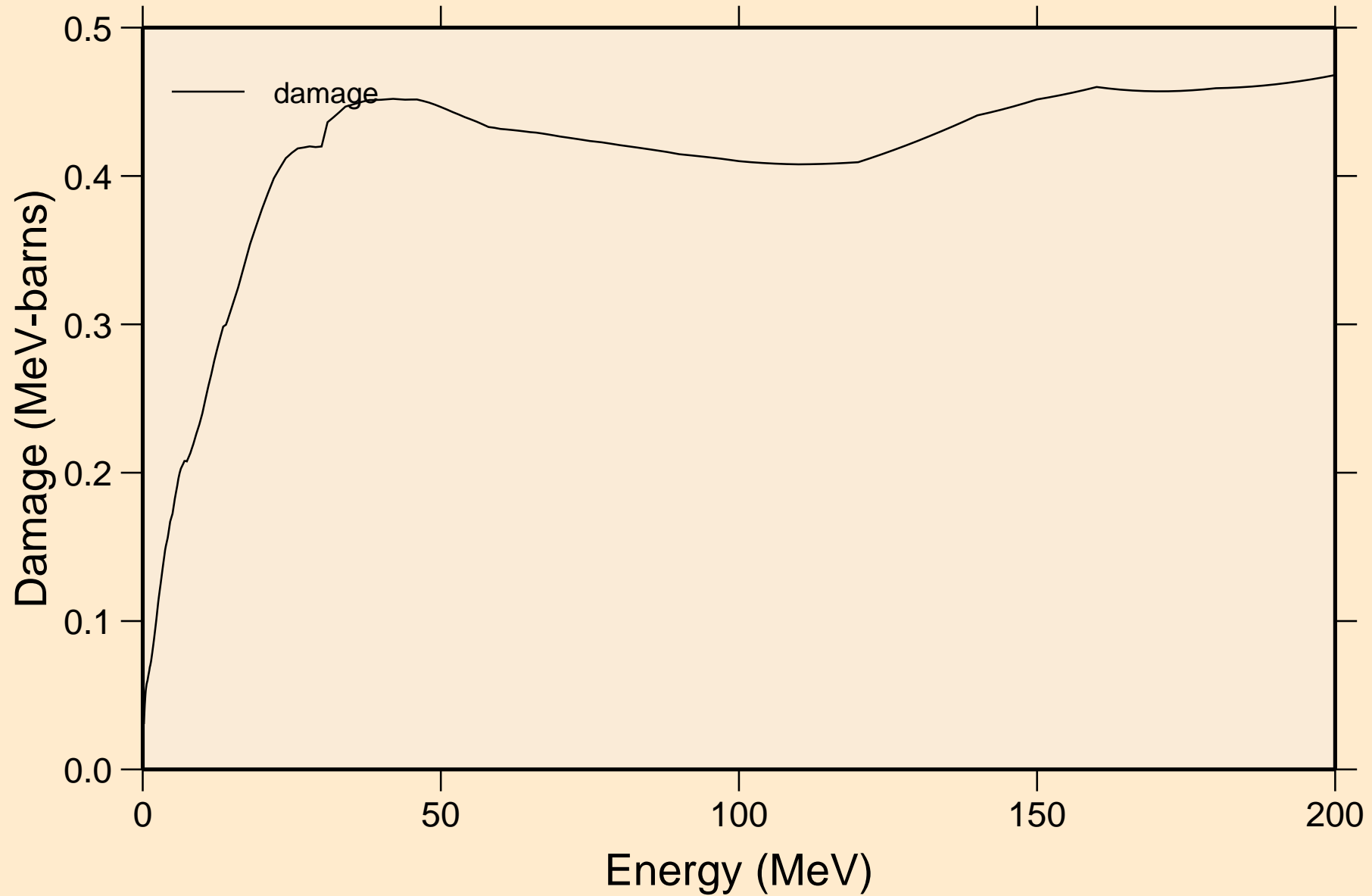
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## Heating



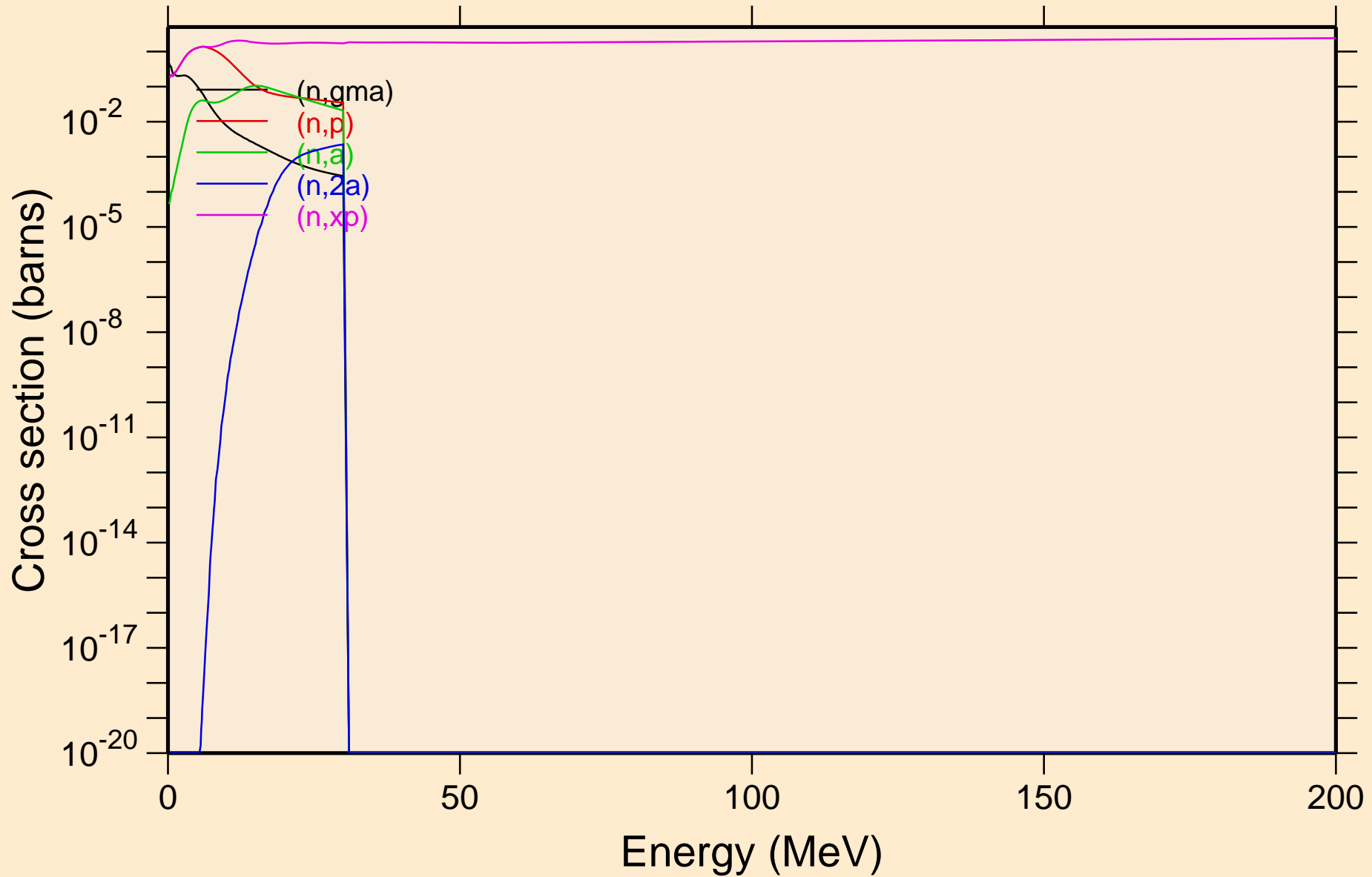
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## Damage

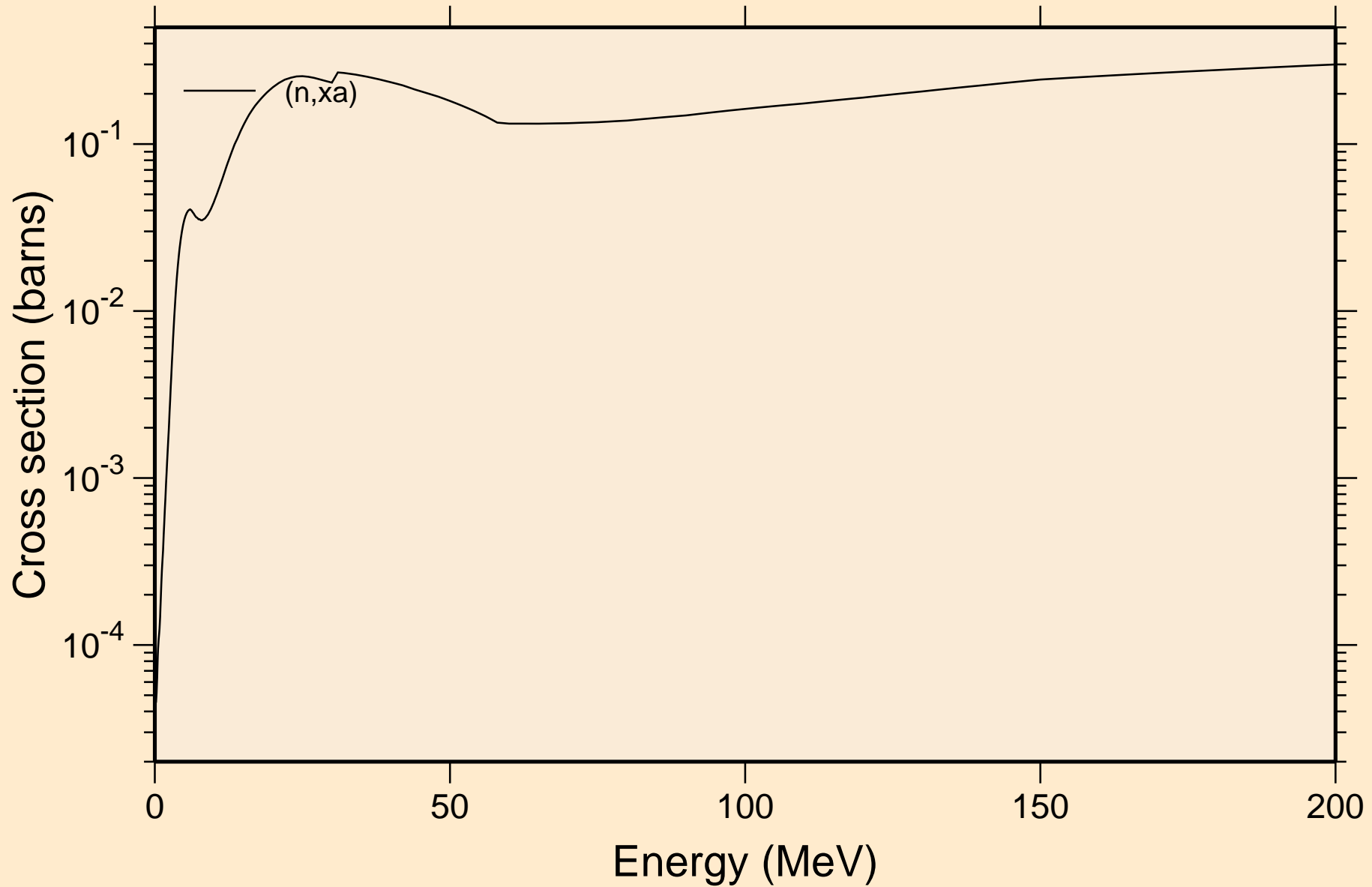




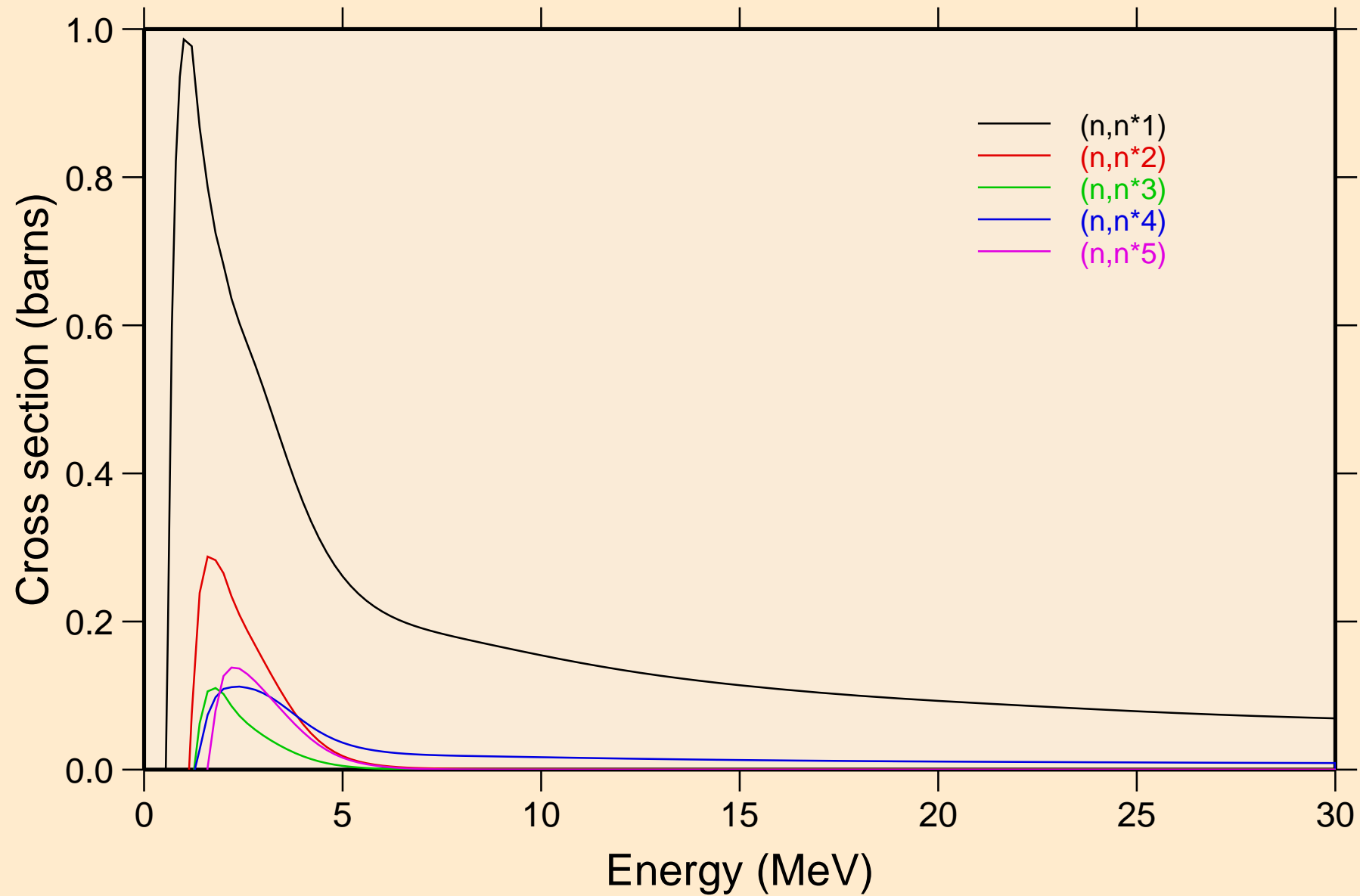
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Non-threshold reactions



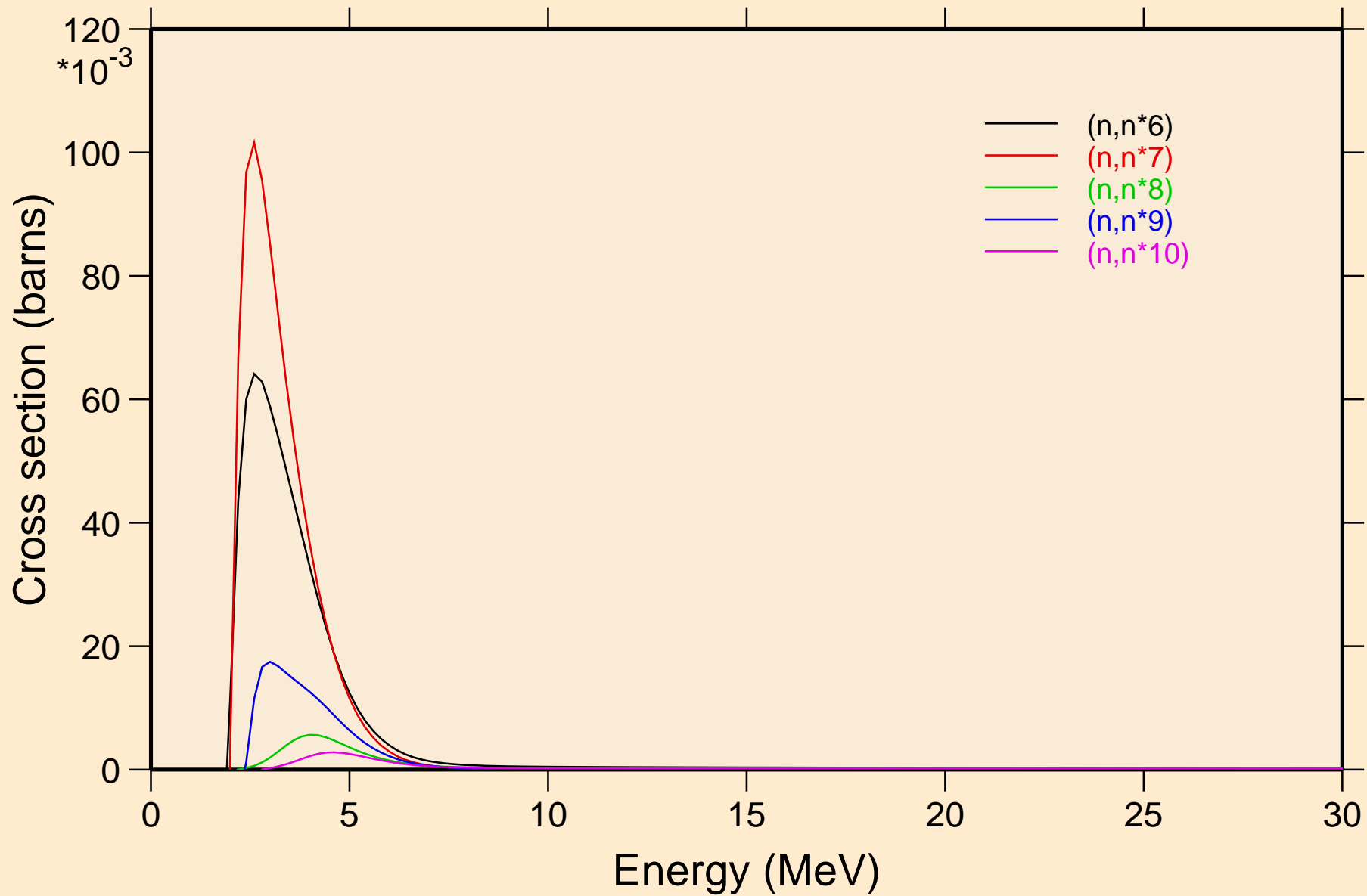
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



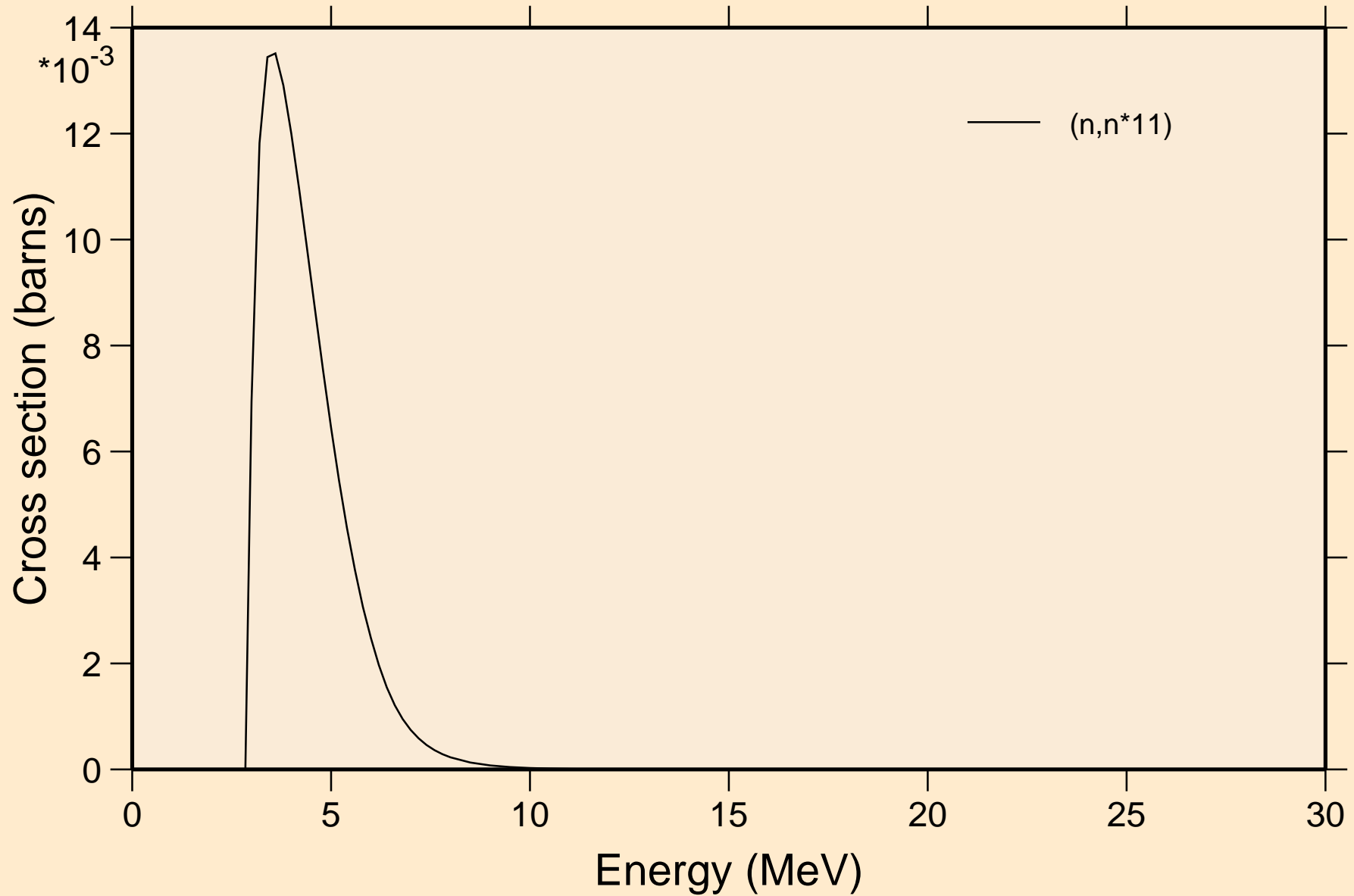
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



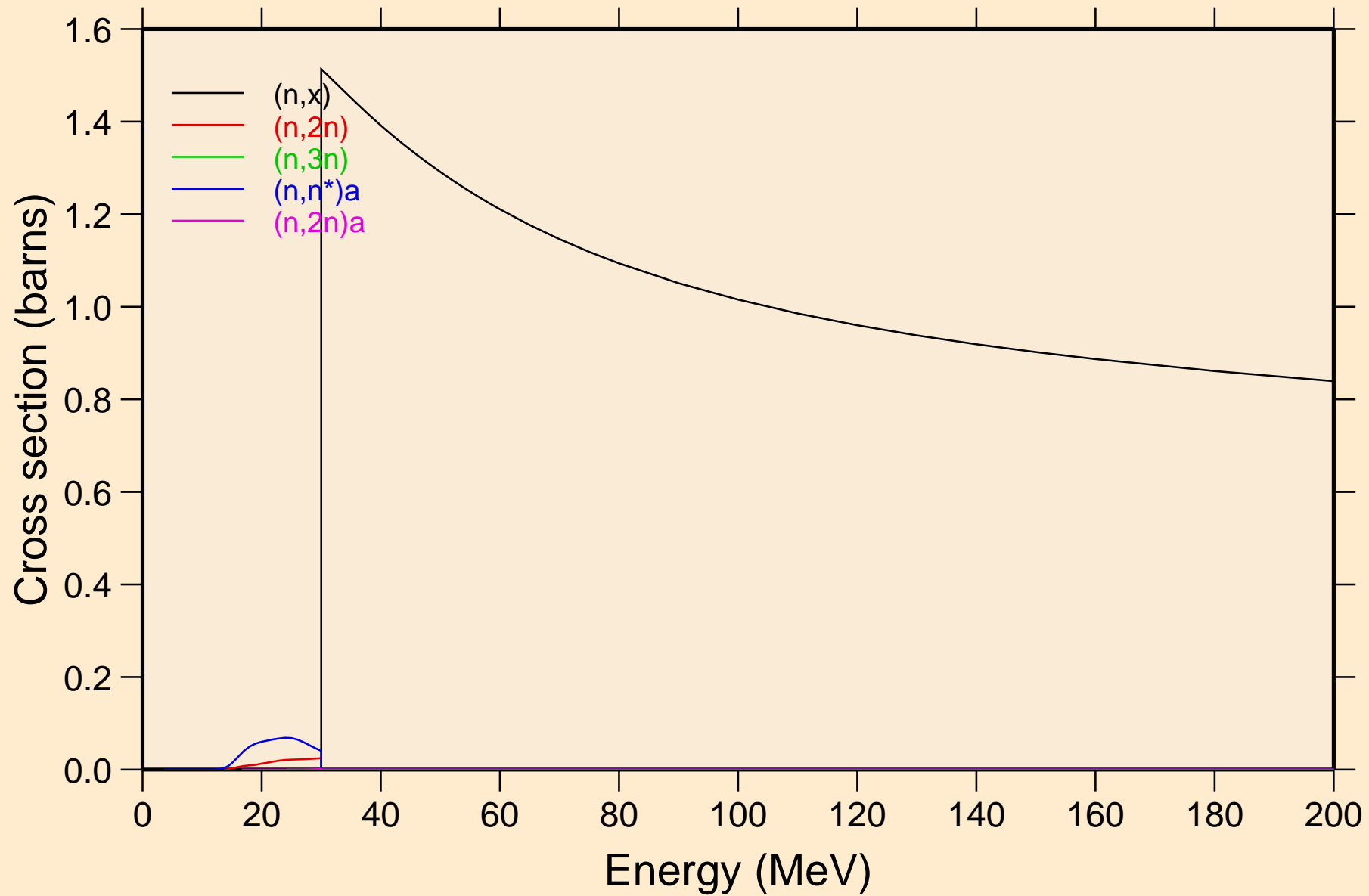
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



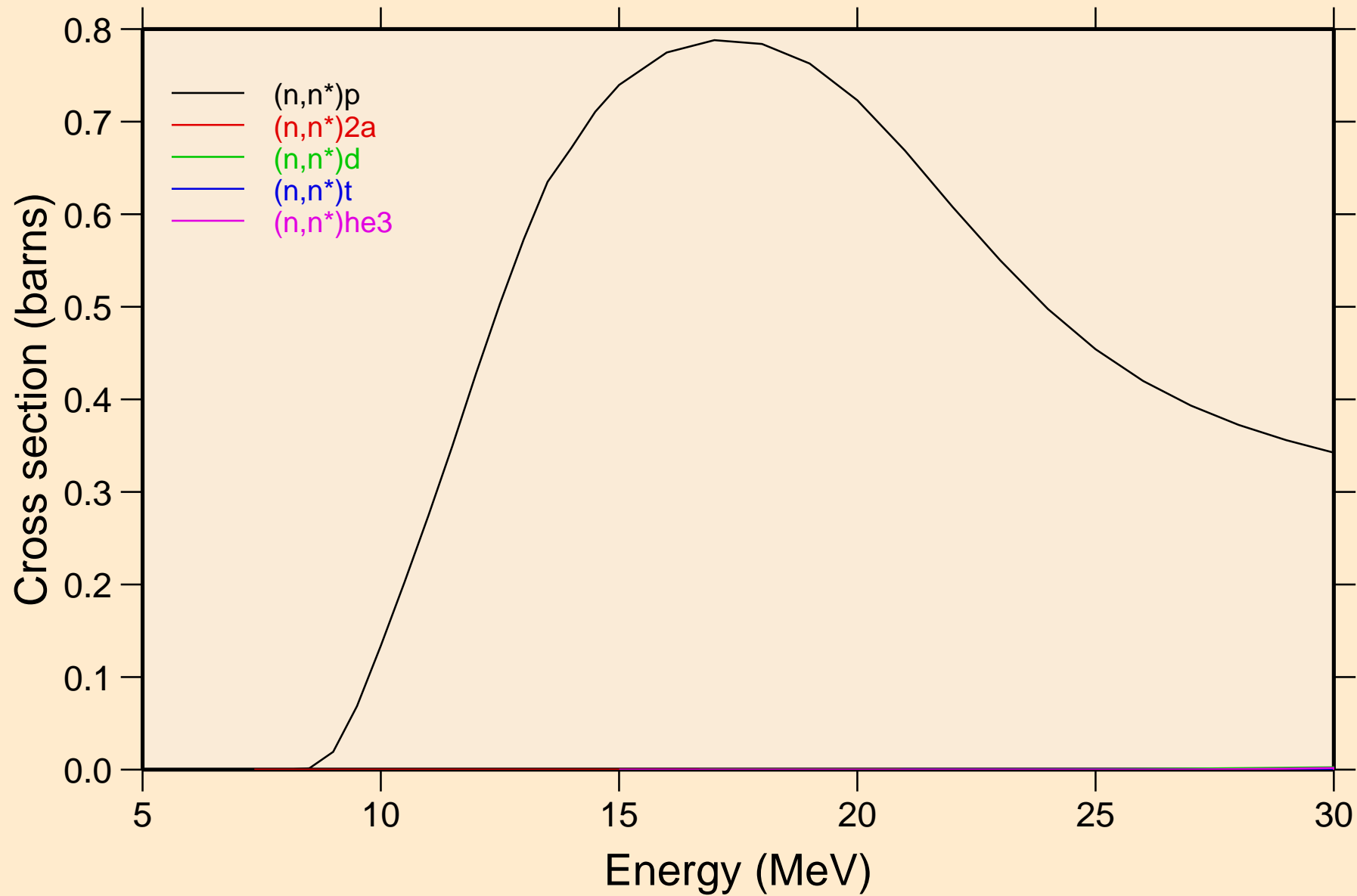
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

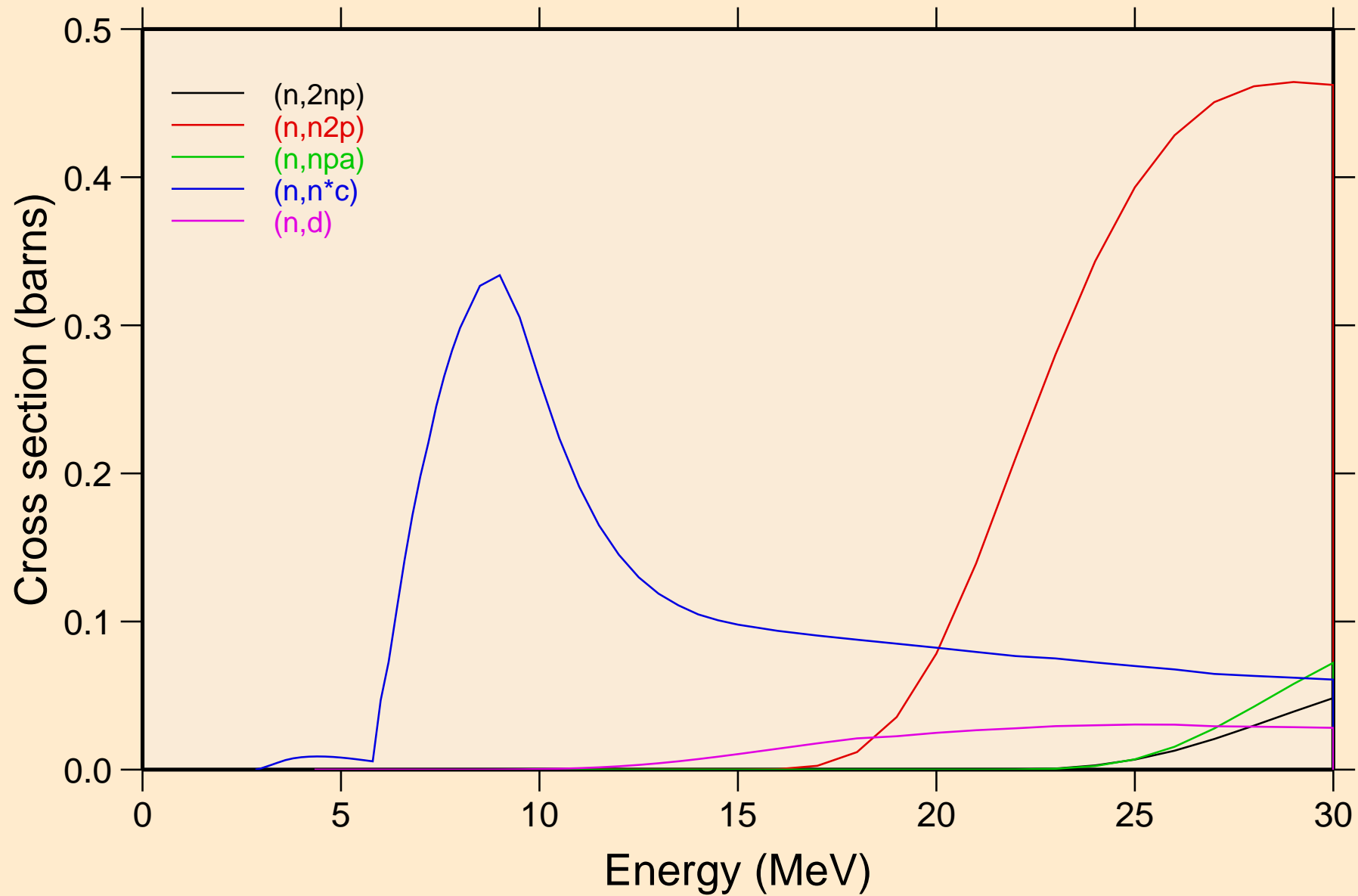


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



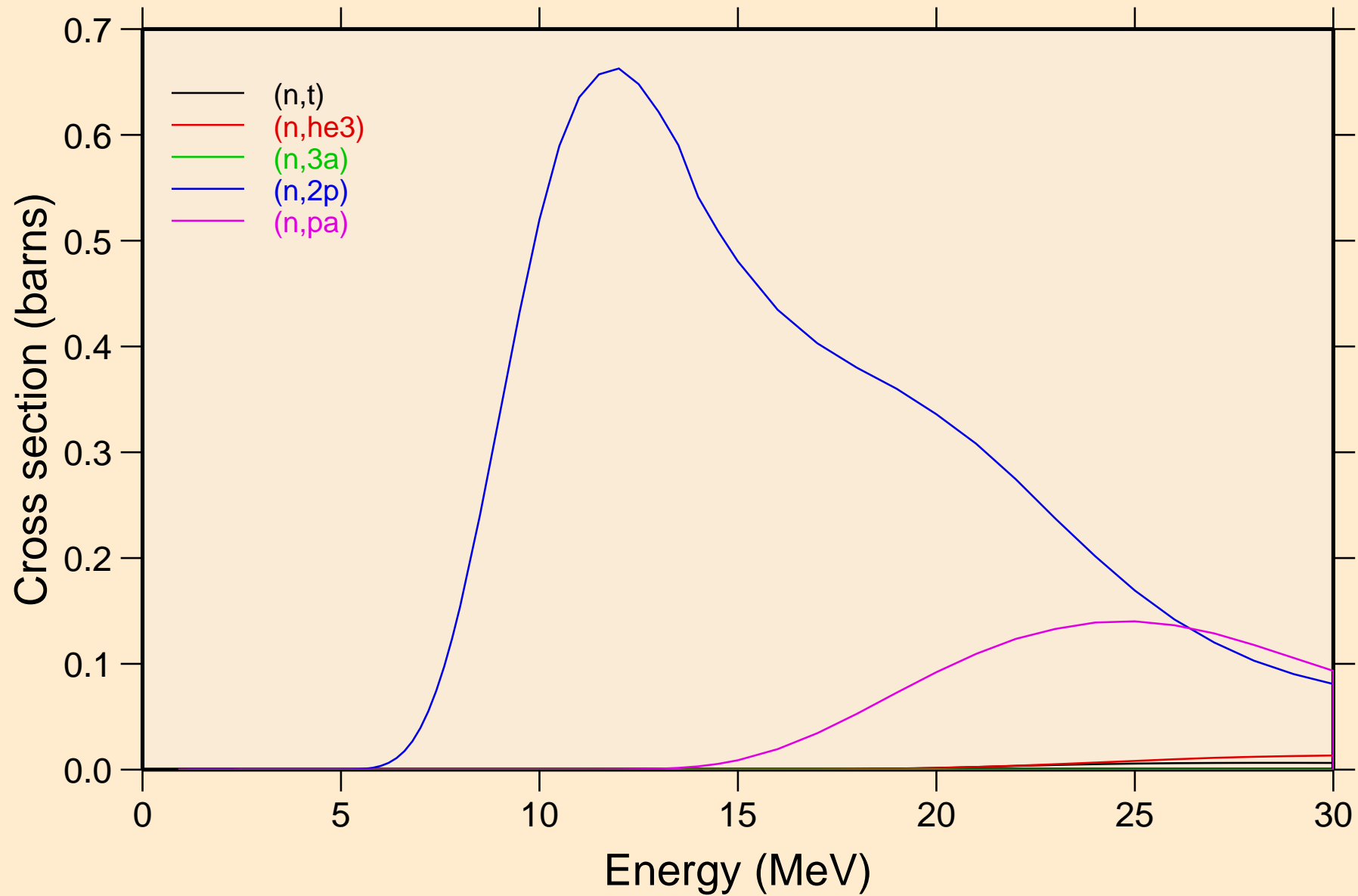
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## Threshold reactions



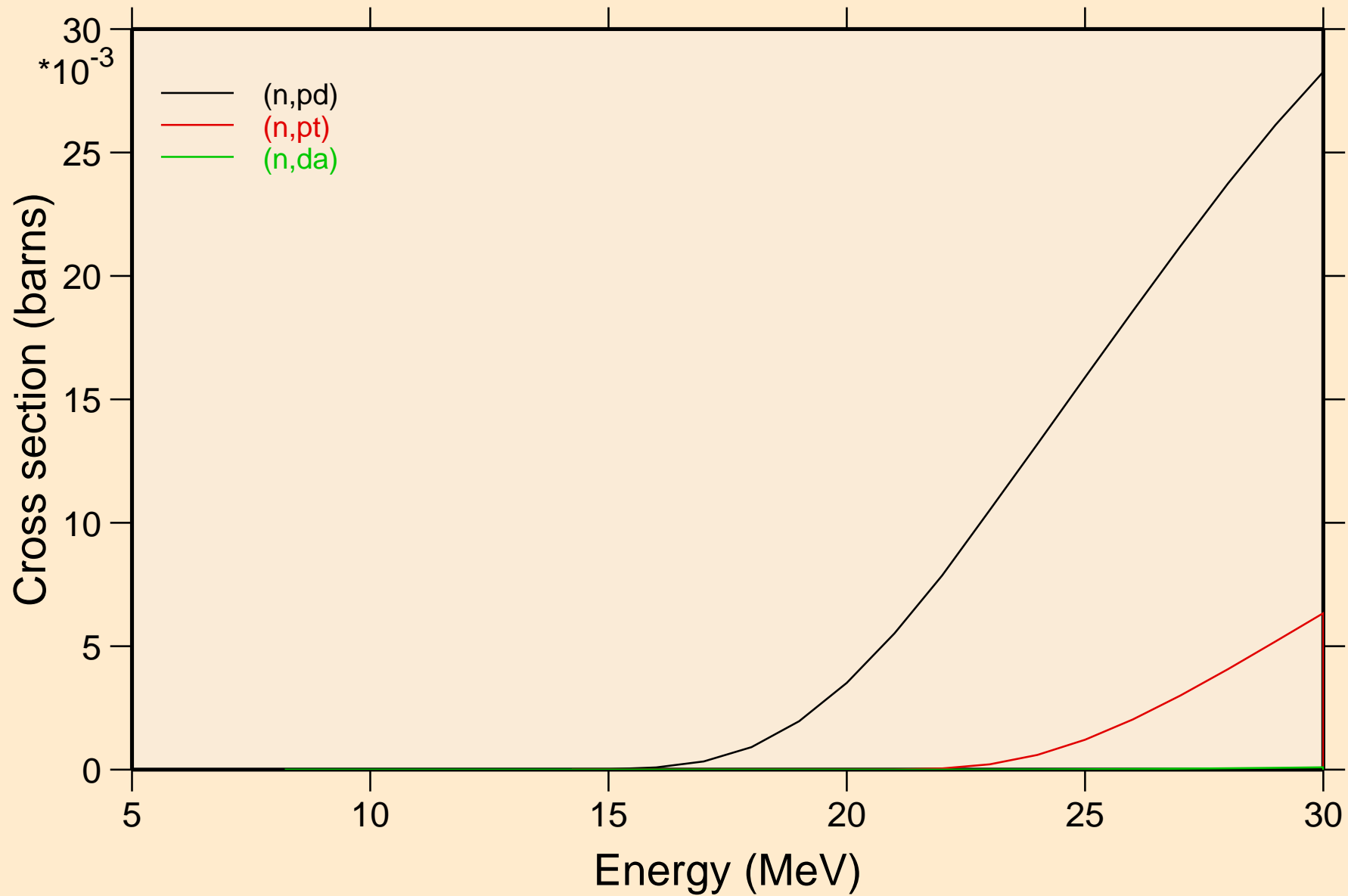


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



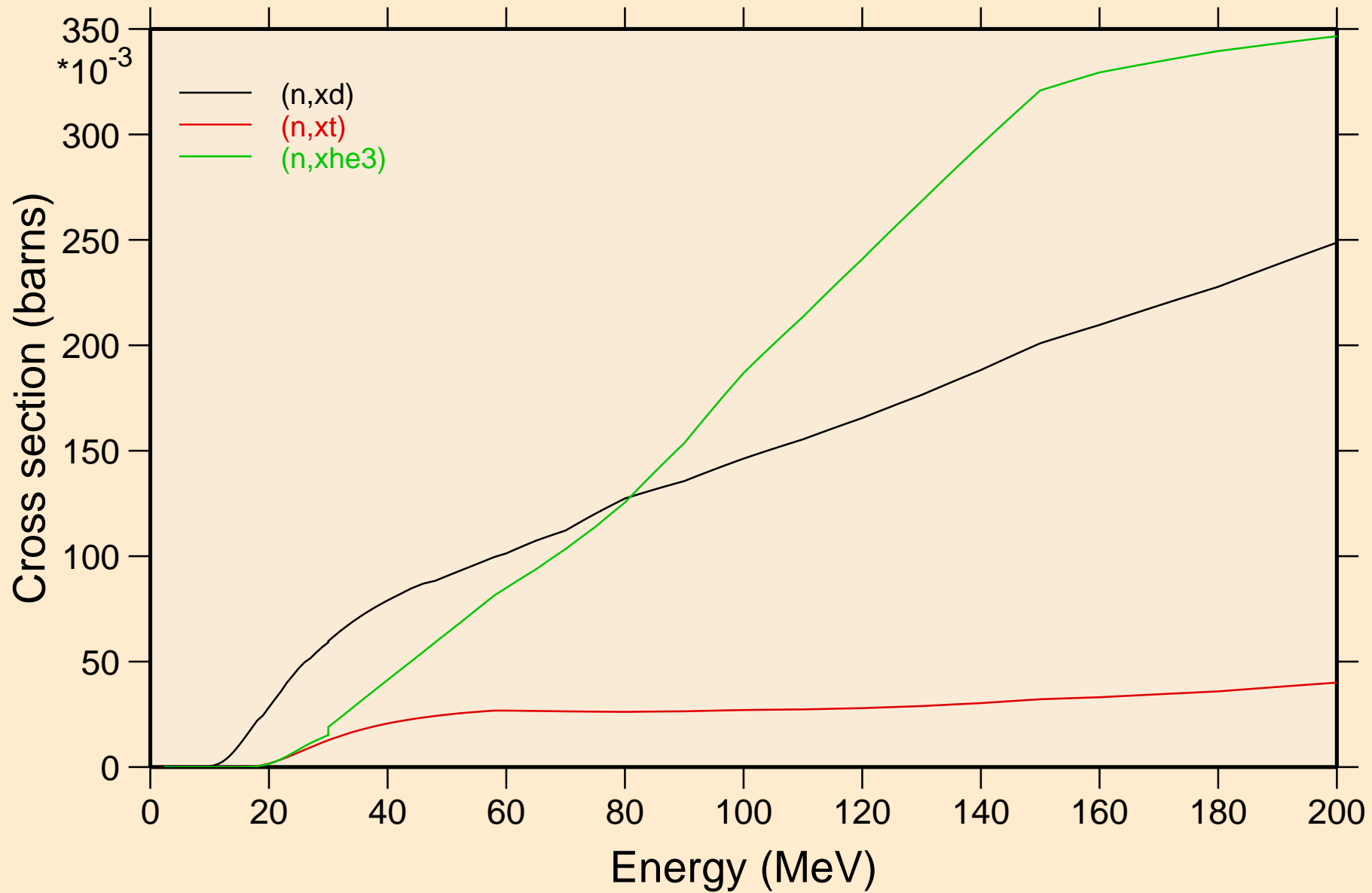
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## Threshold reactions

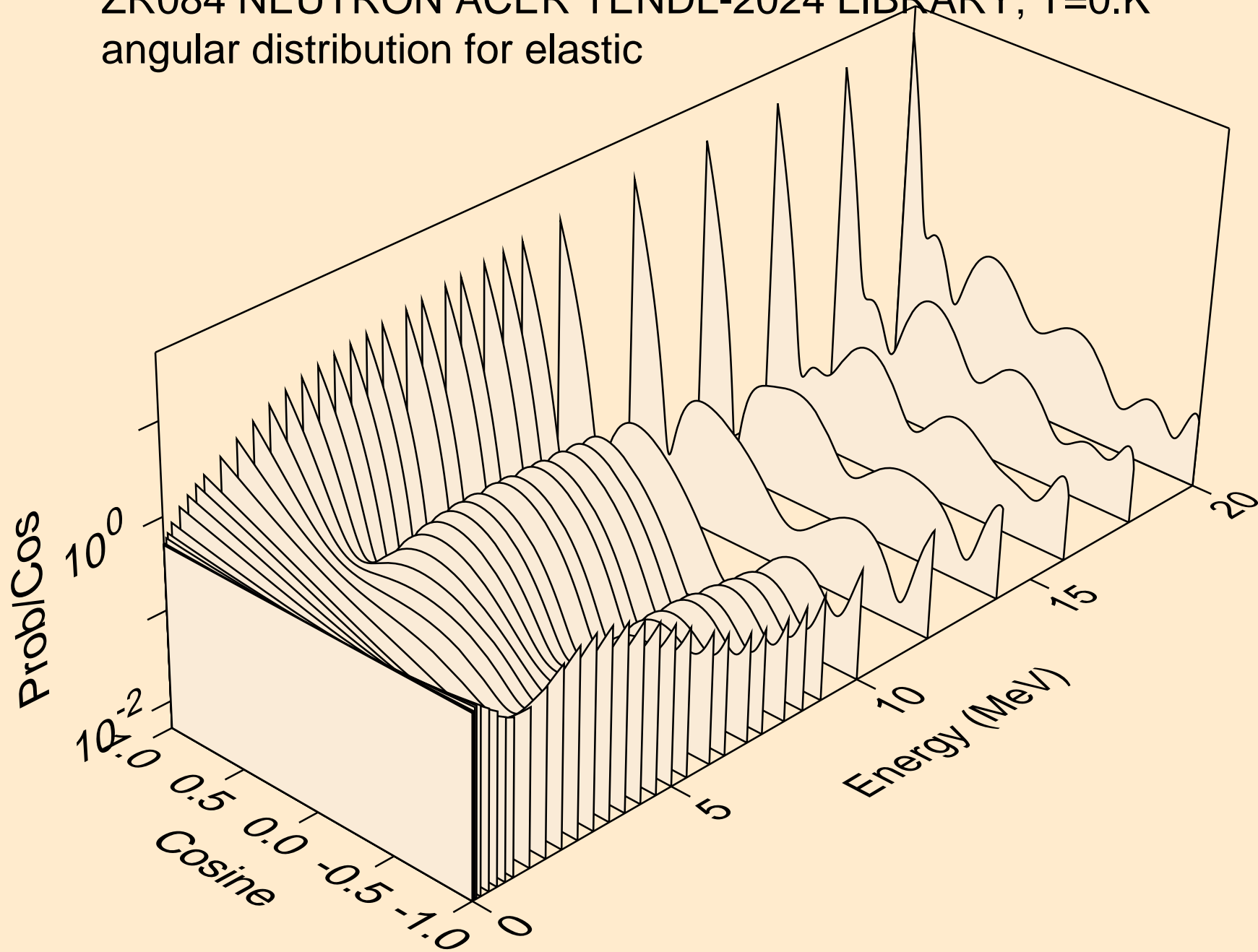


# ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

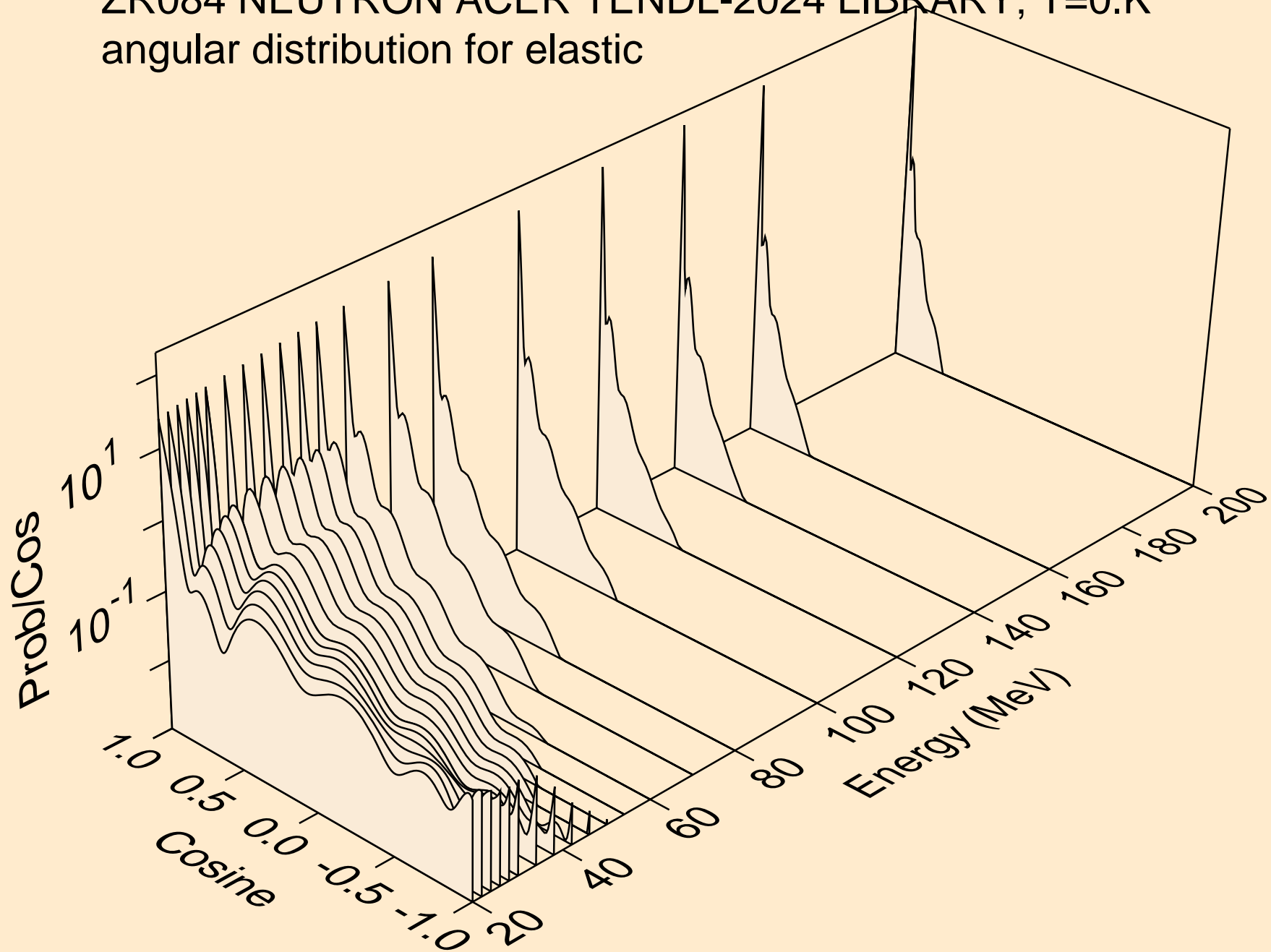
## Threshold reactions



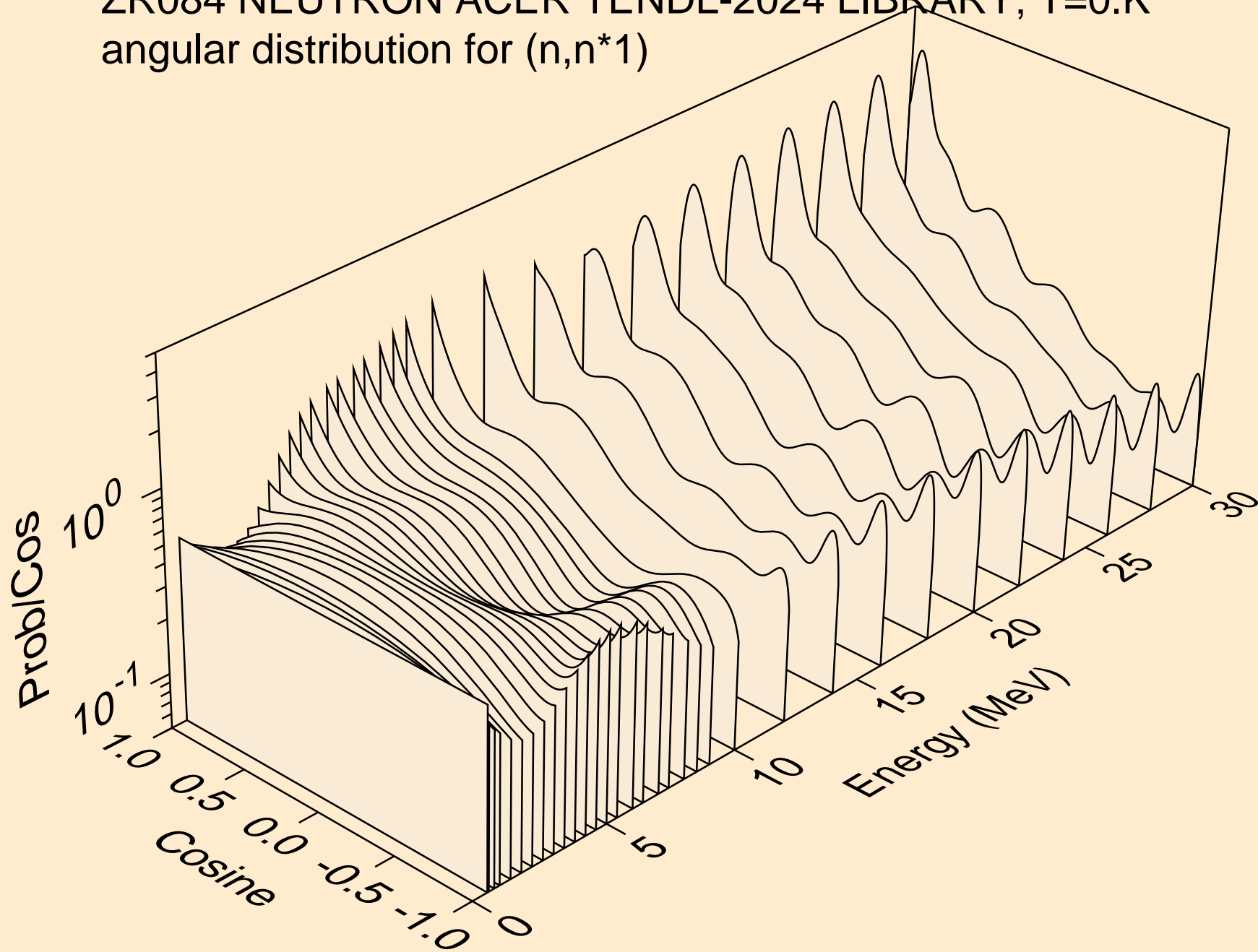
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angular distribution for elastic



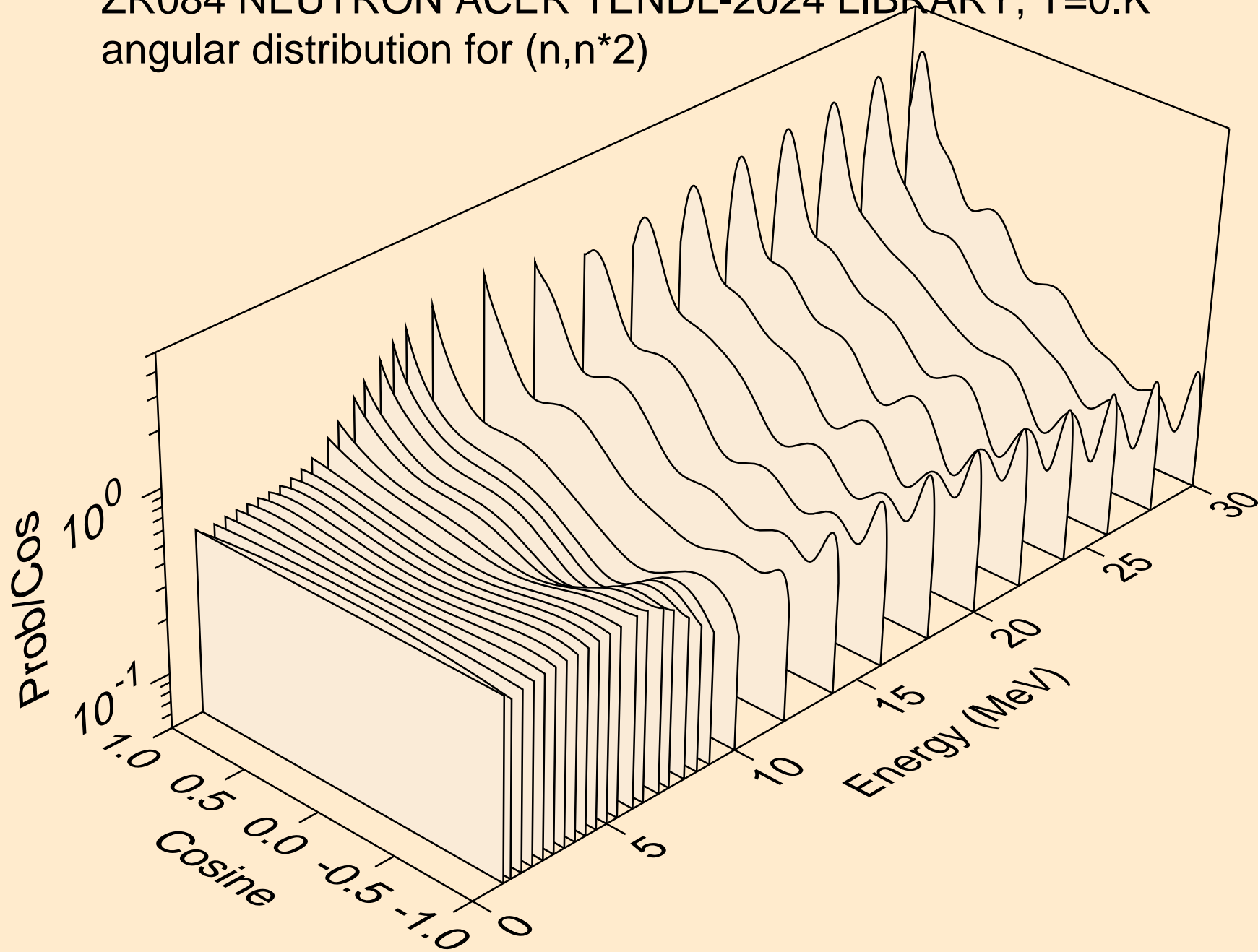
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angular distribution for elastic



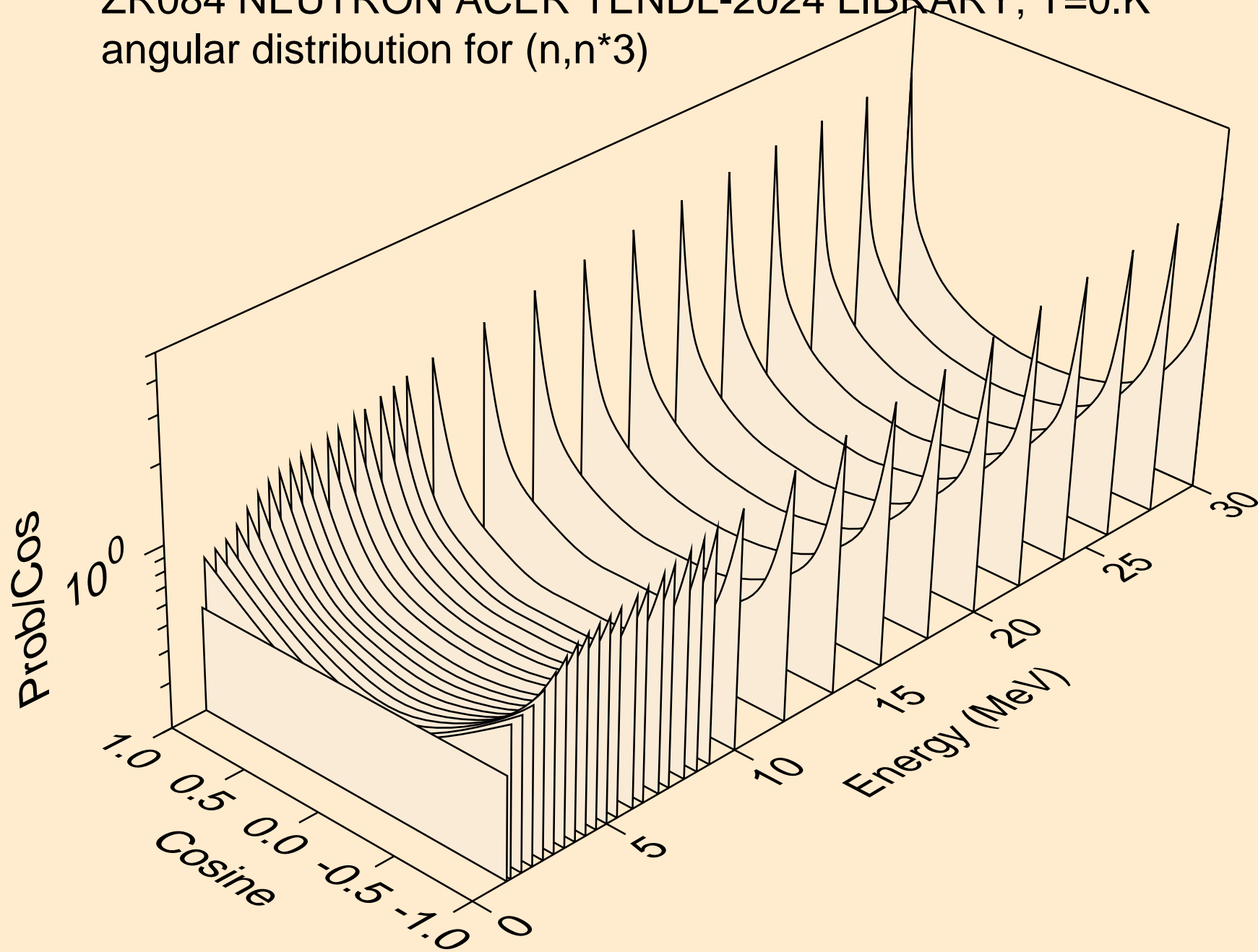
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

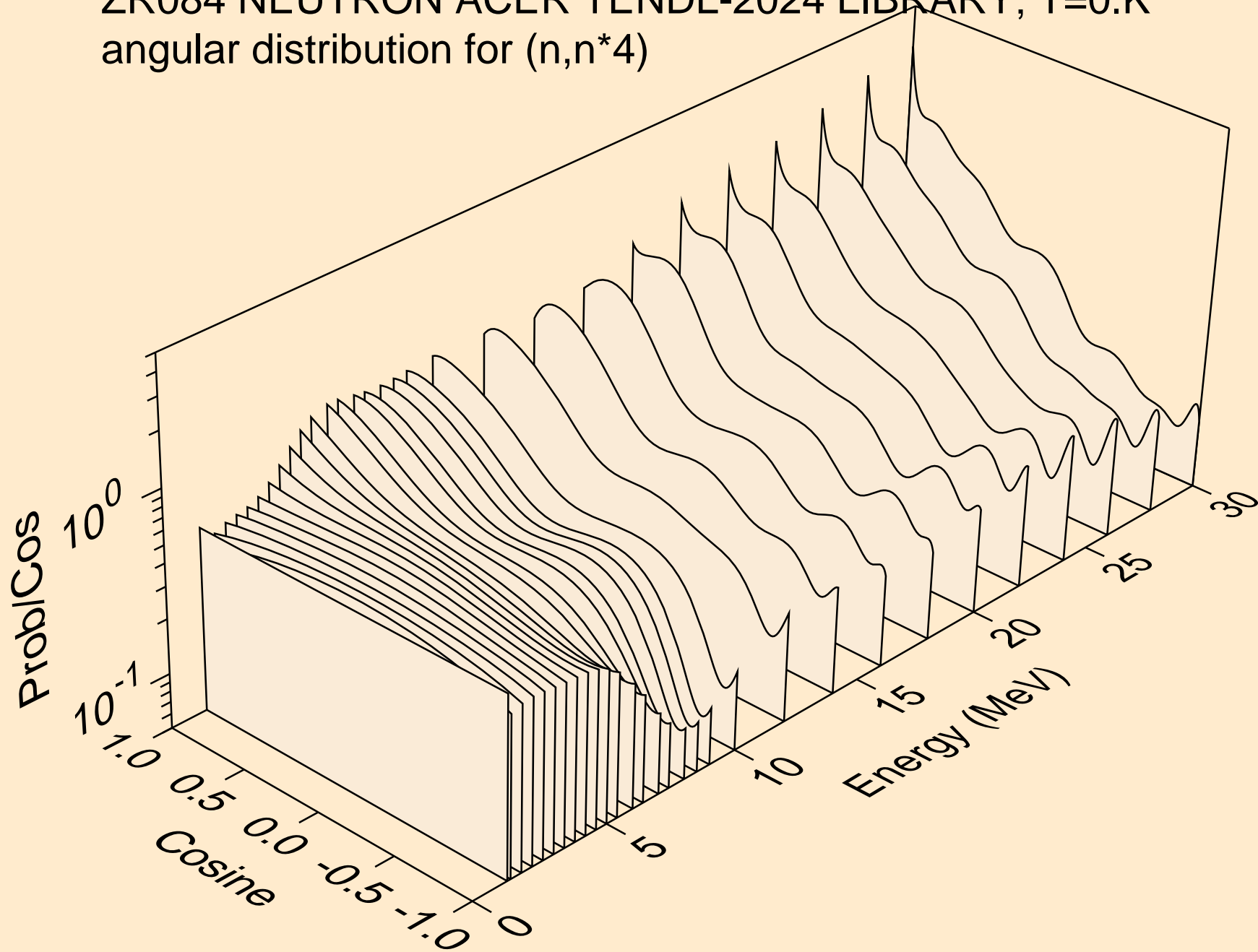


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angular distribution for (n,n\*3)

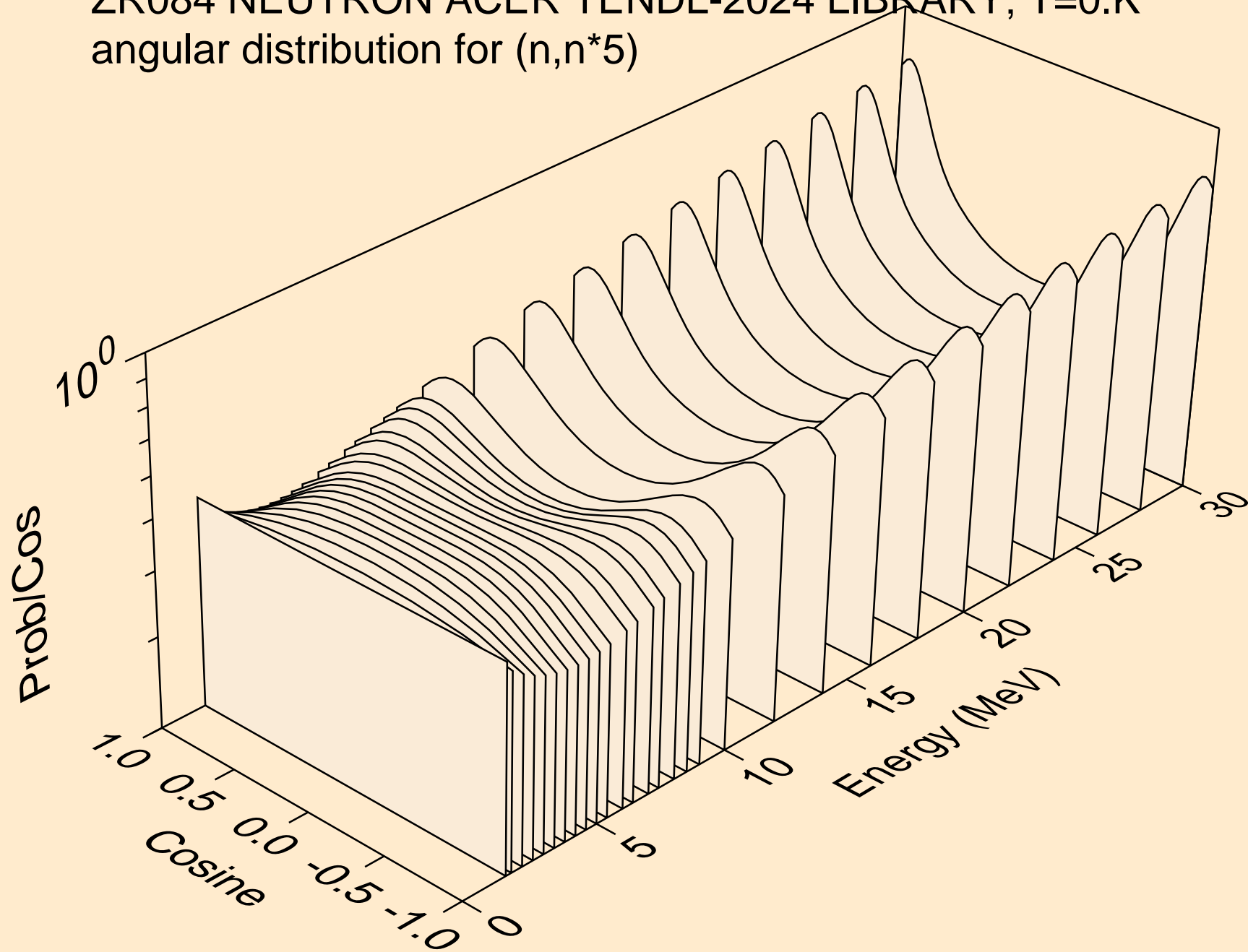




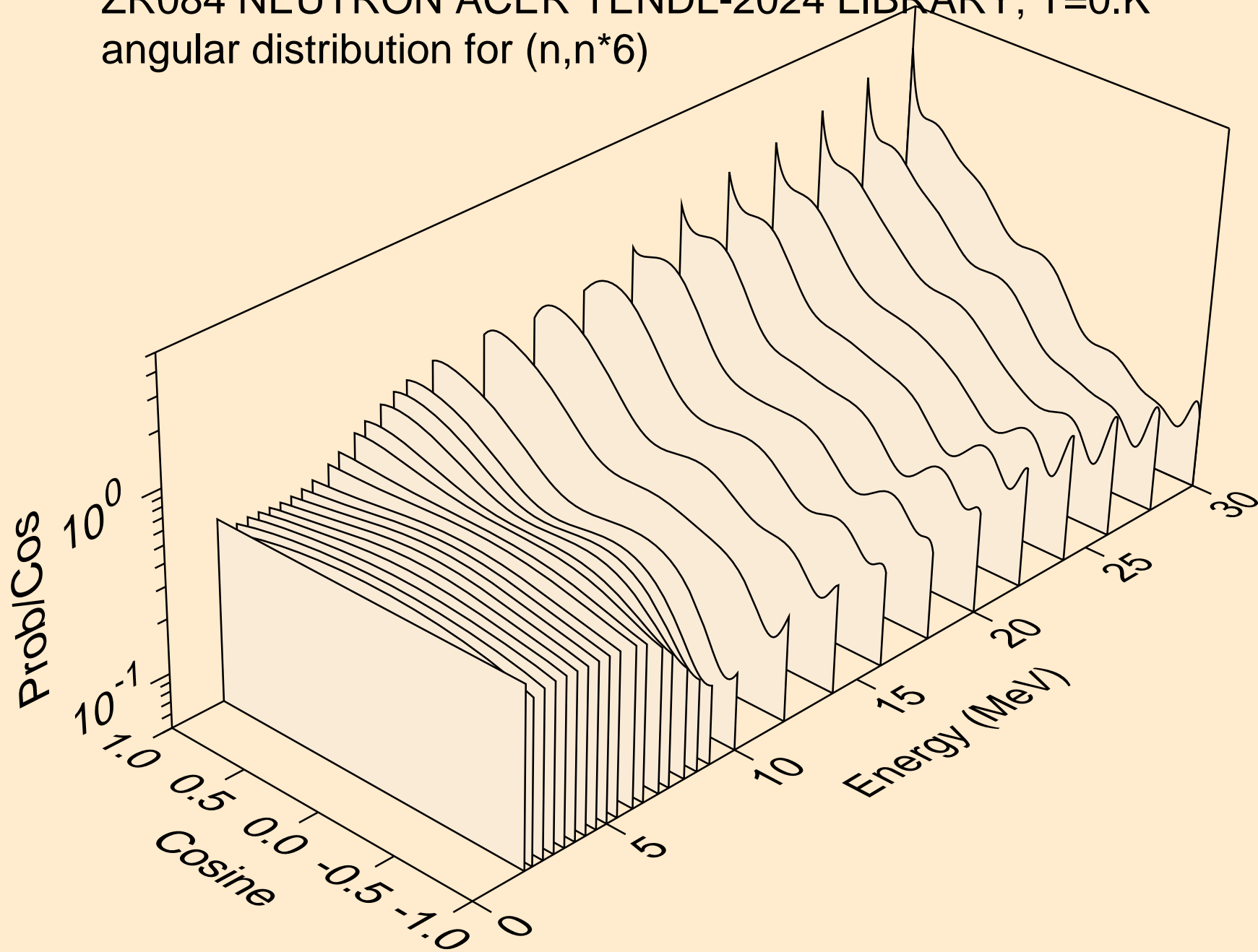
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angular distribution for (n,n\*4)



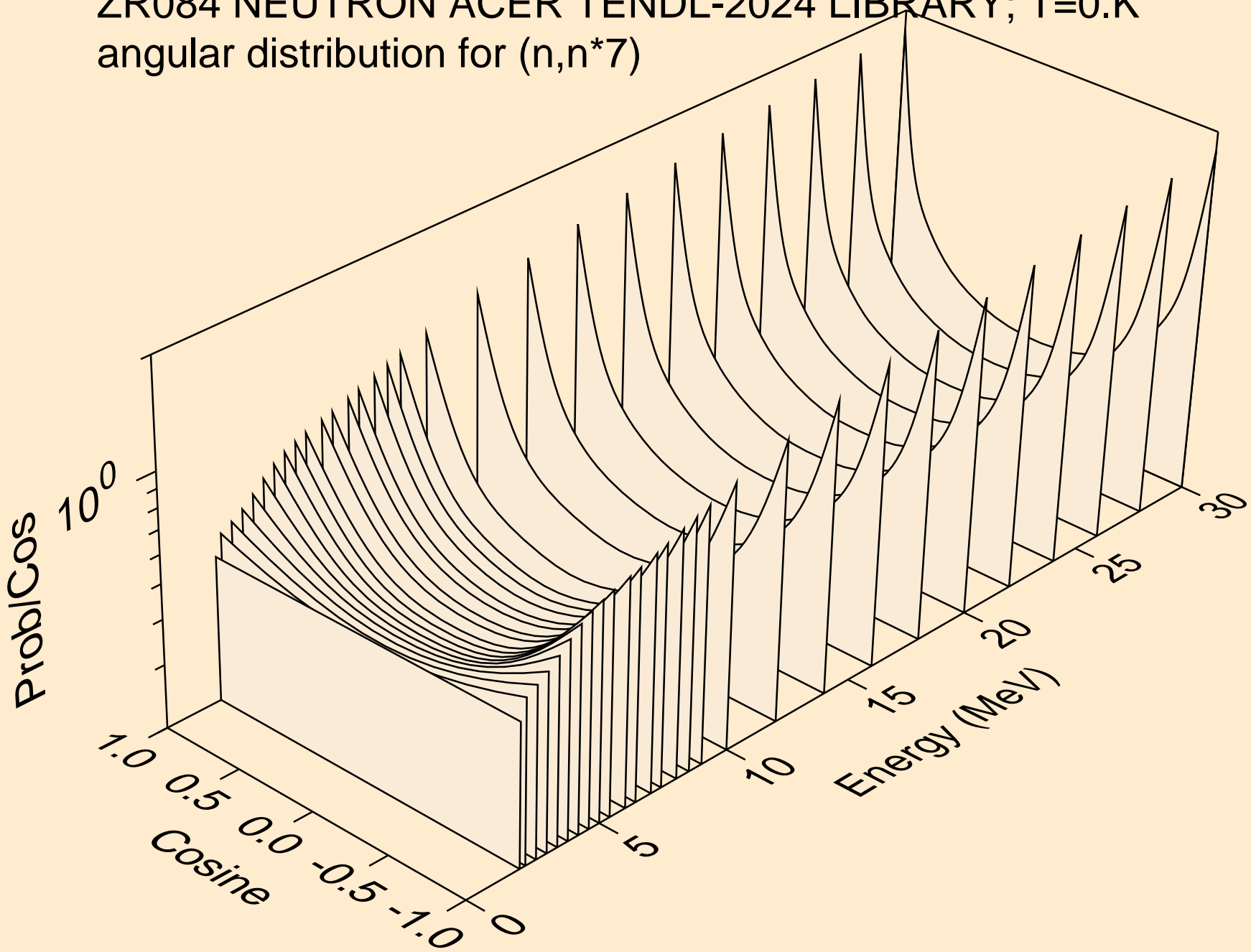
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angular distribution for (n,n\*5)



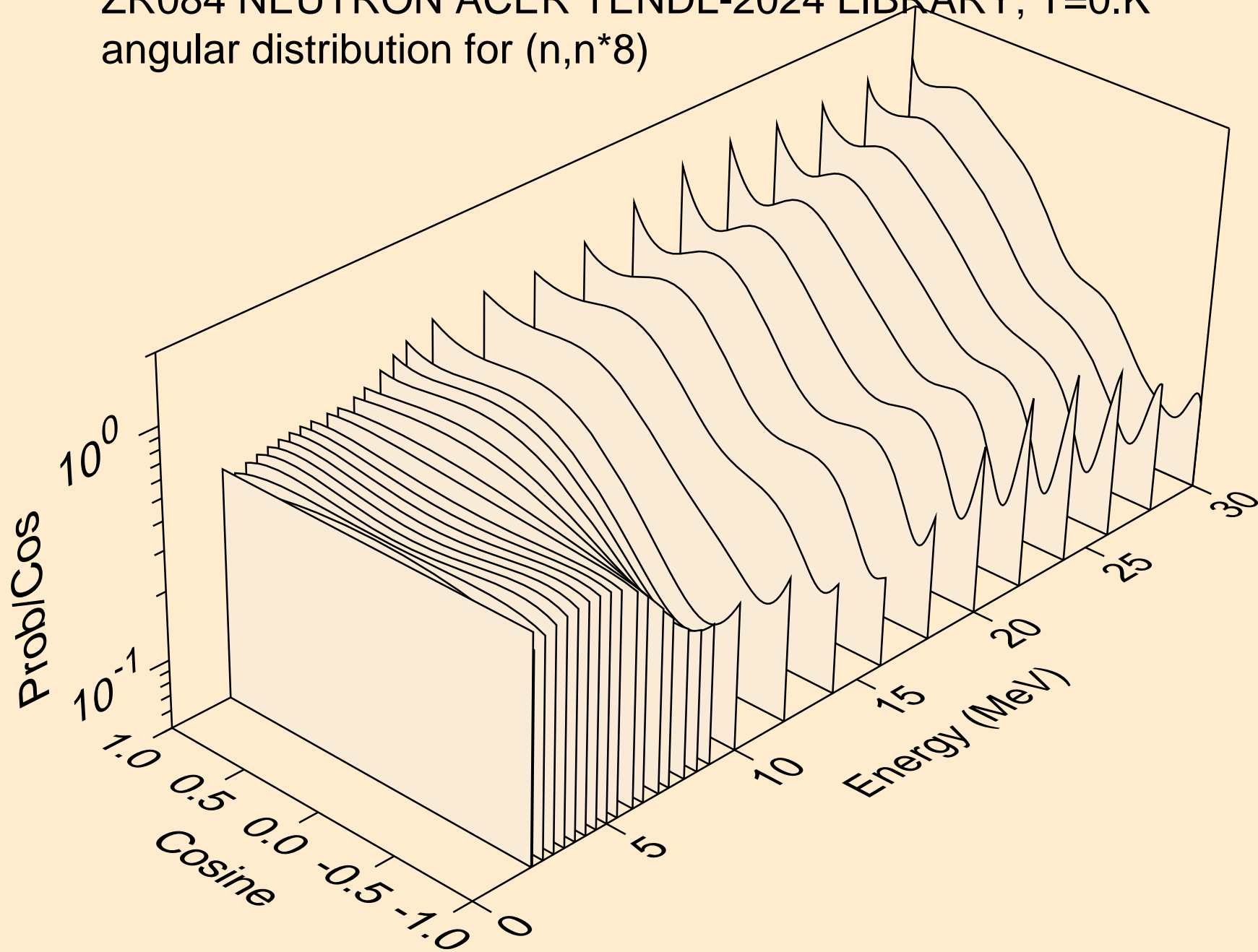
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angular distribution for (n,n\*6)



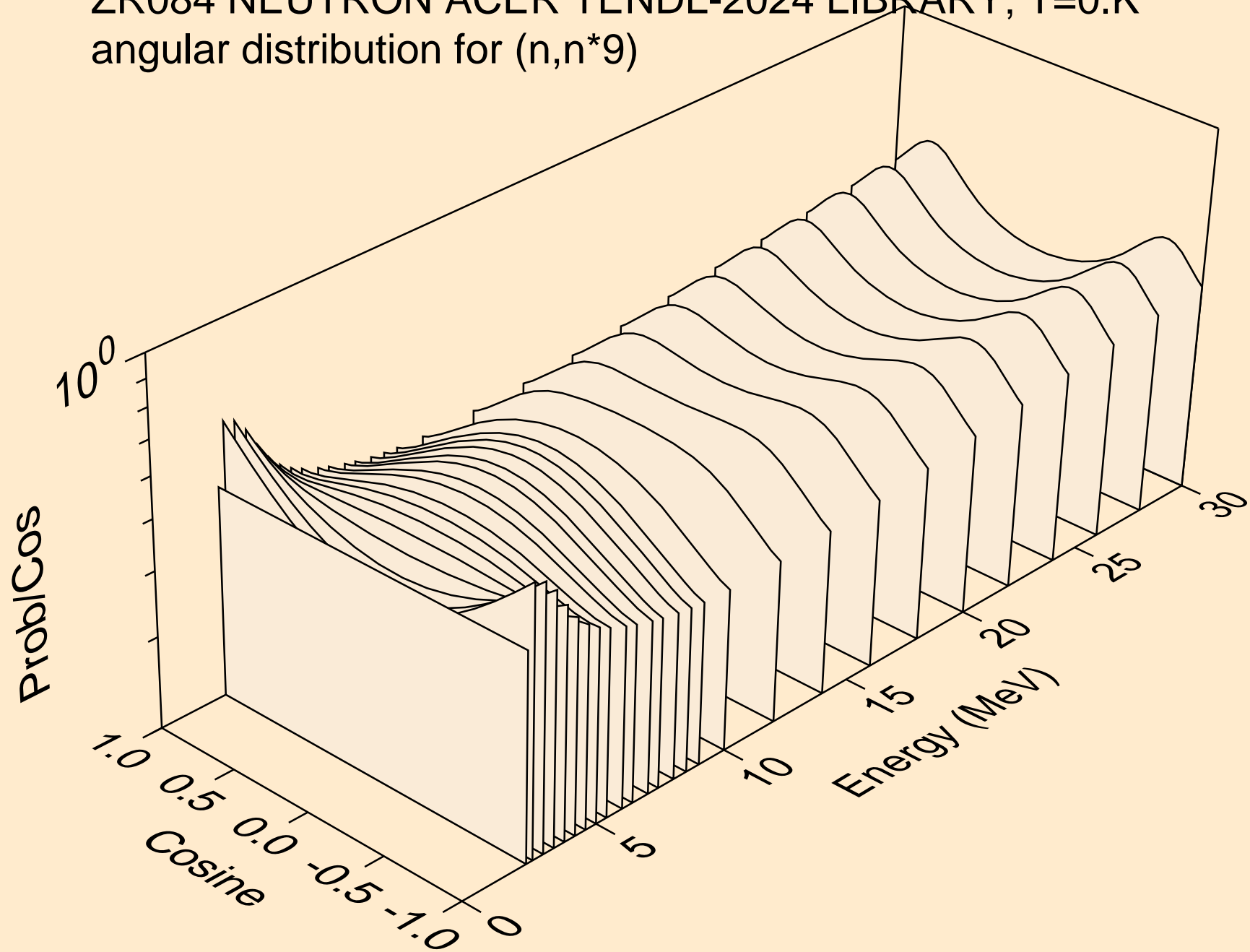
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angular distribution for (n,n\*7)



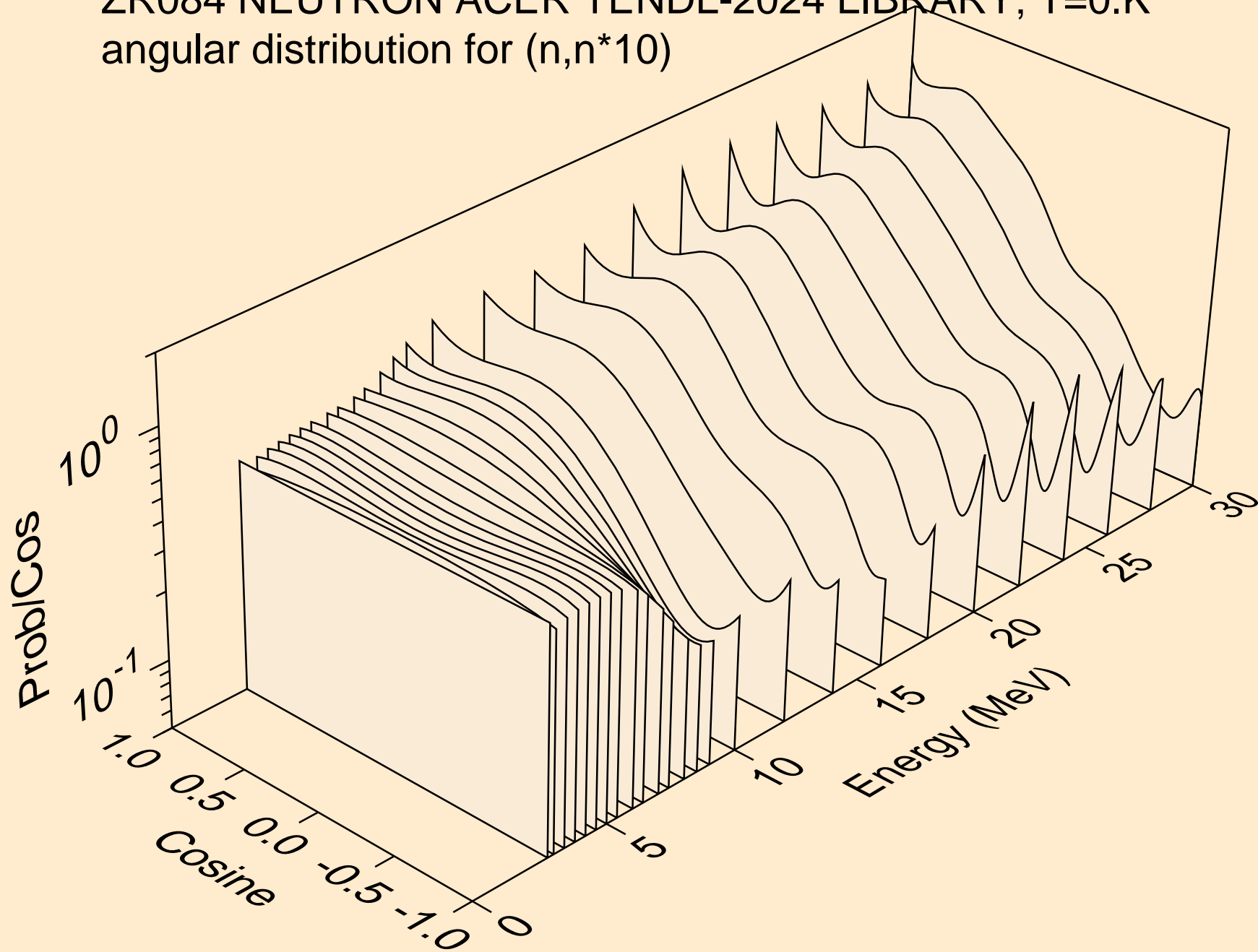
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angular distribution for (n,n\*8)



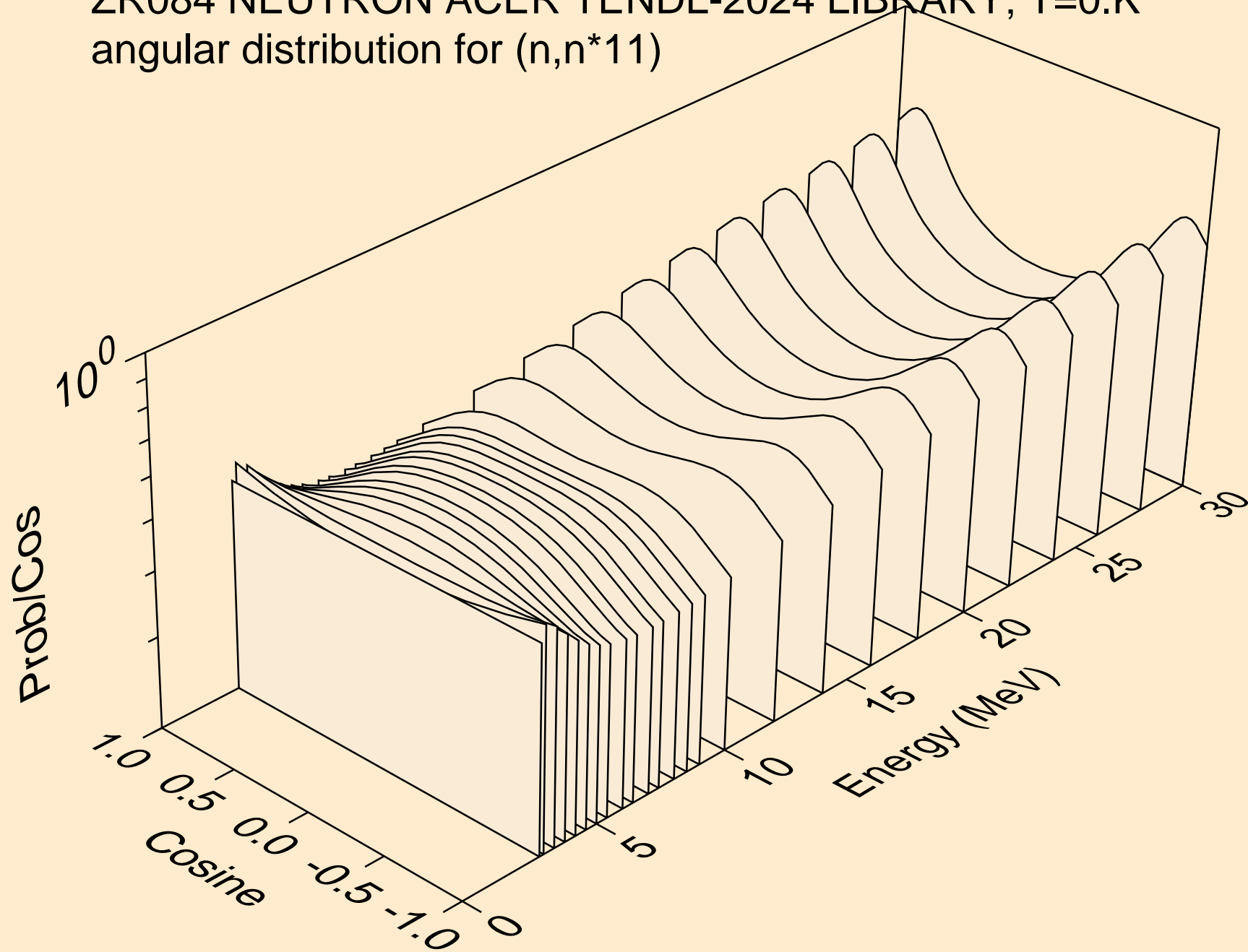
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*10)

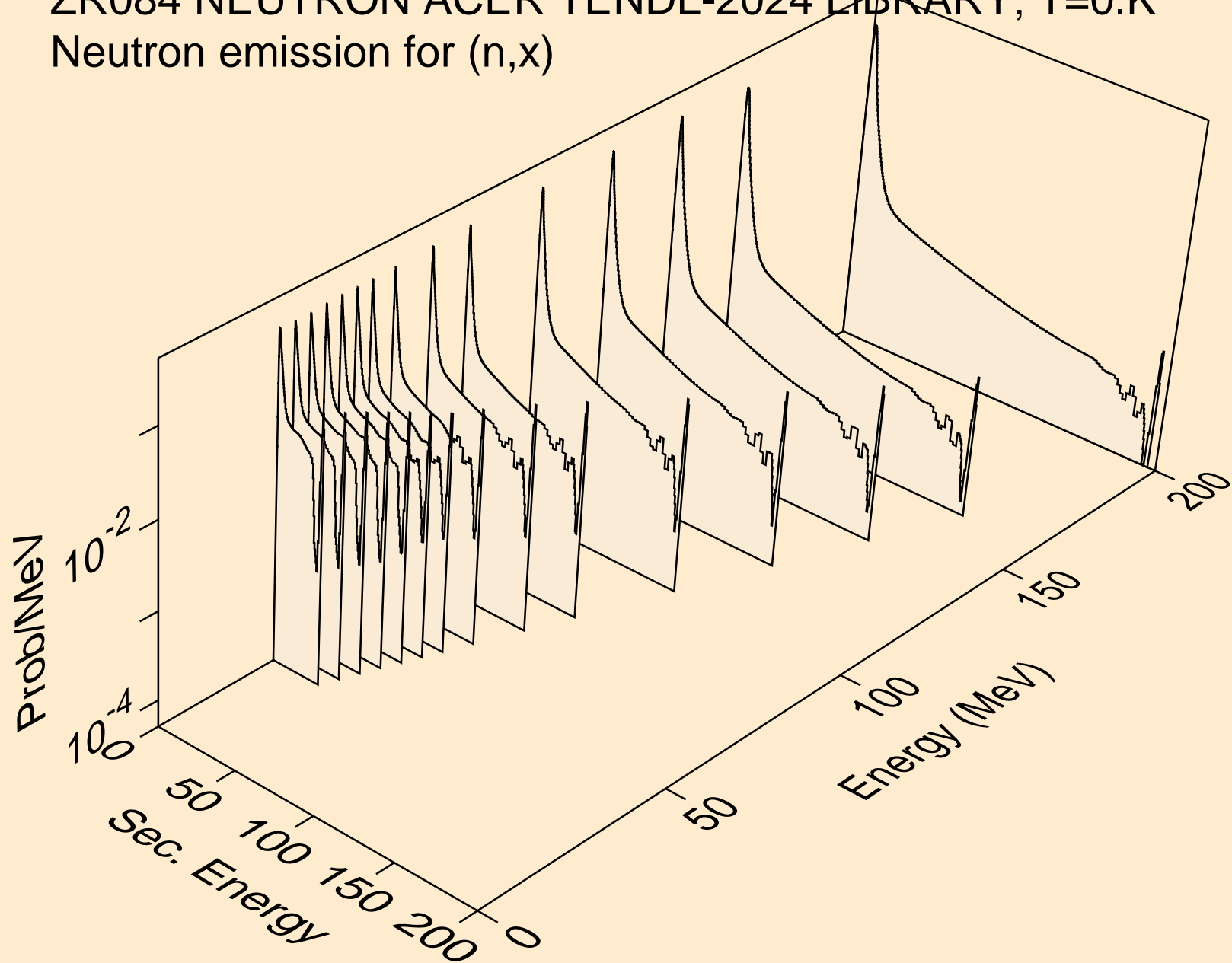


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angular distribution for (n,n\*11)

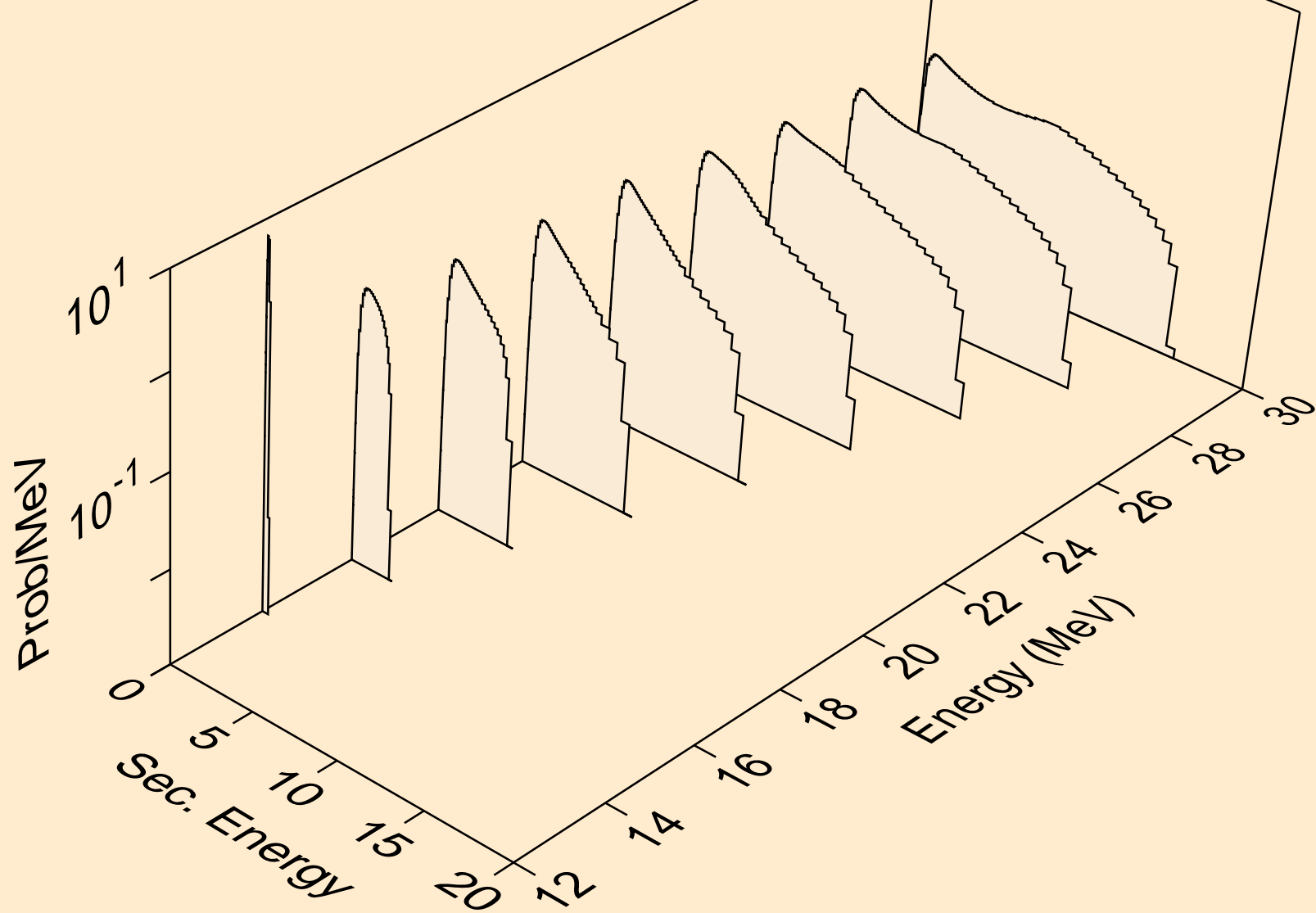




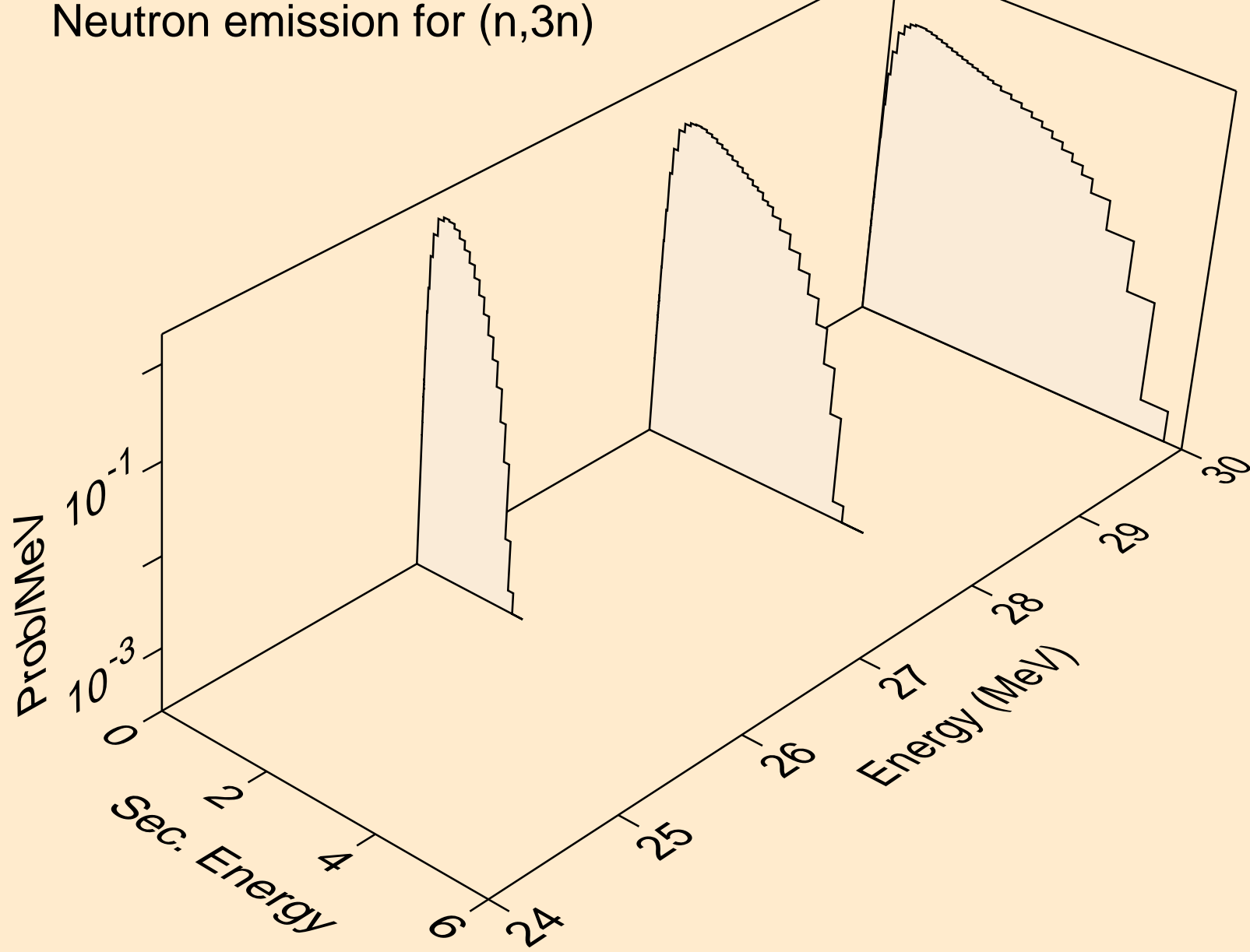
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)



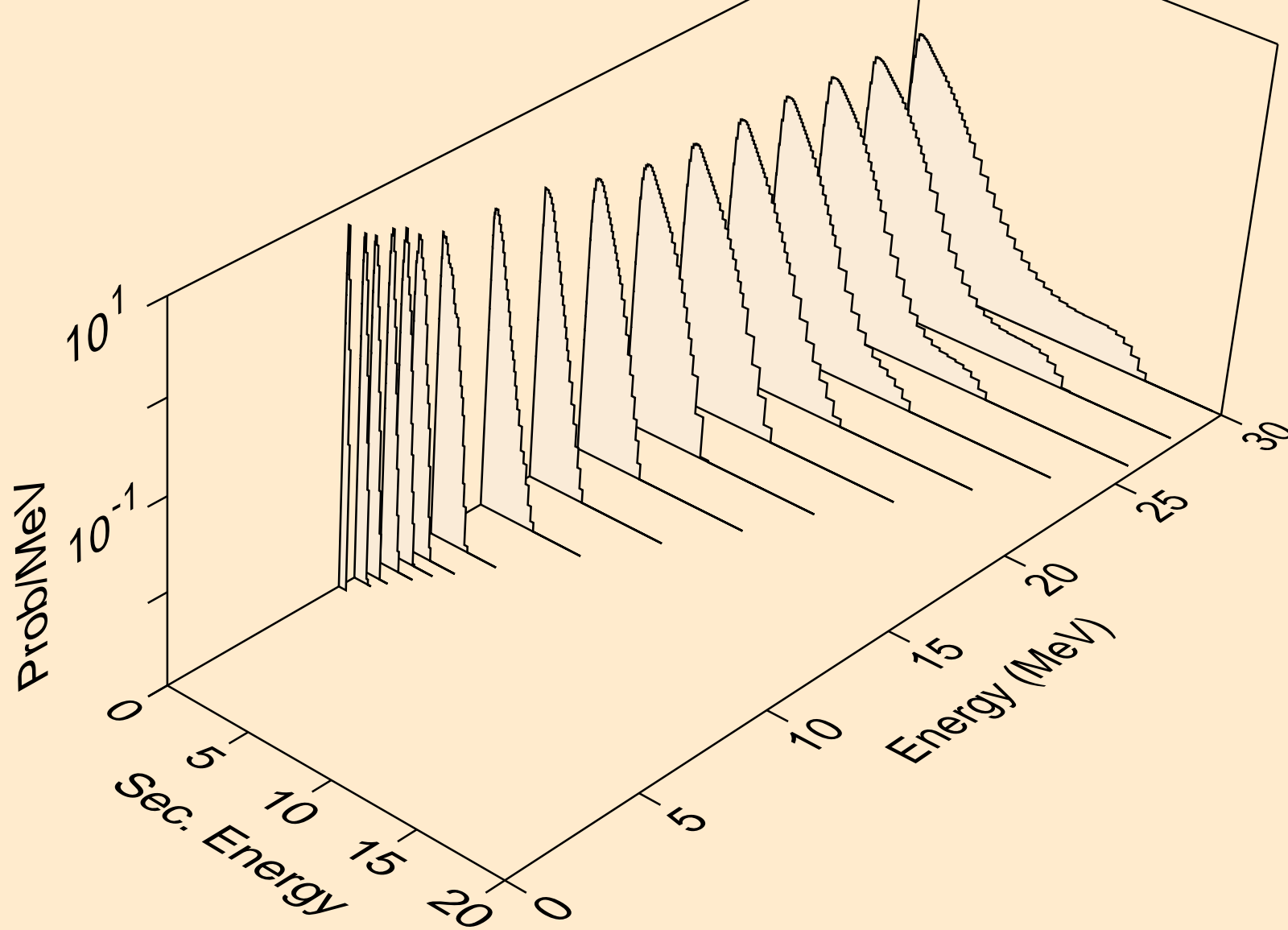
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



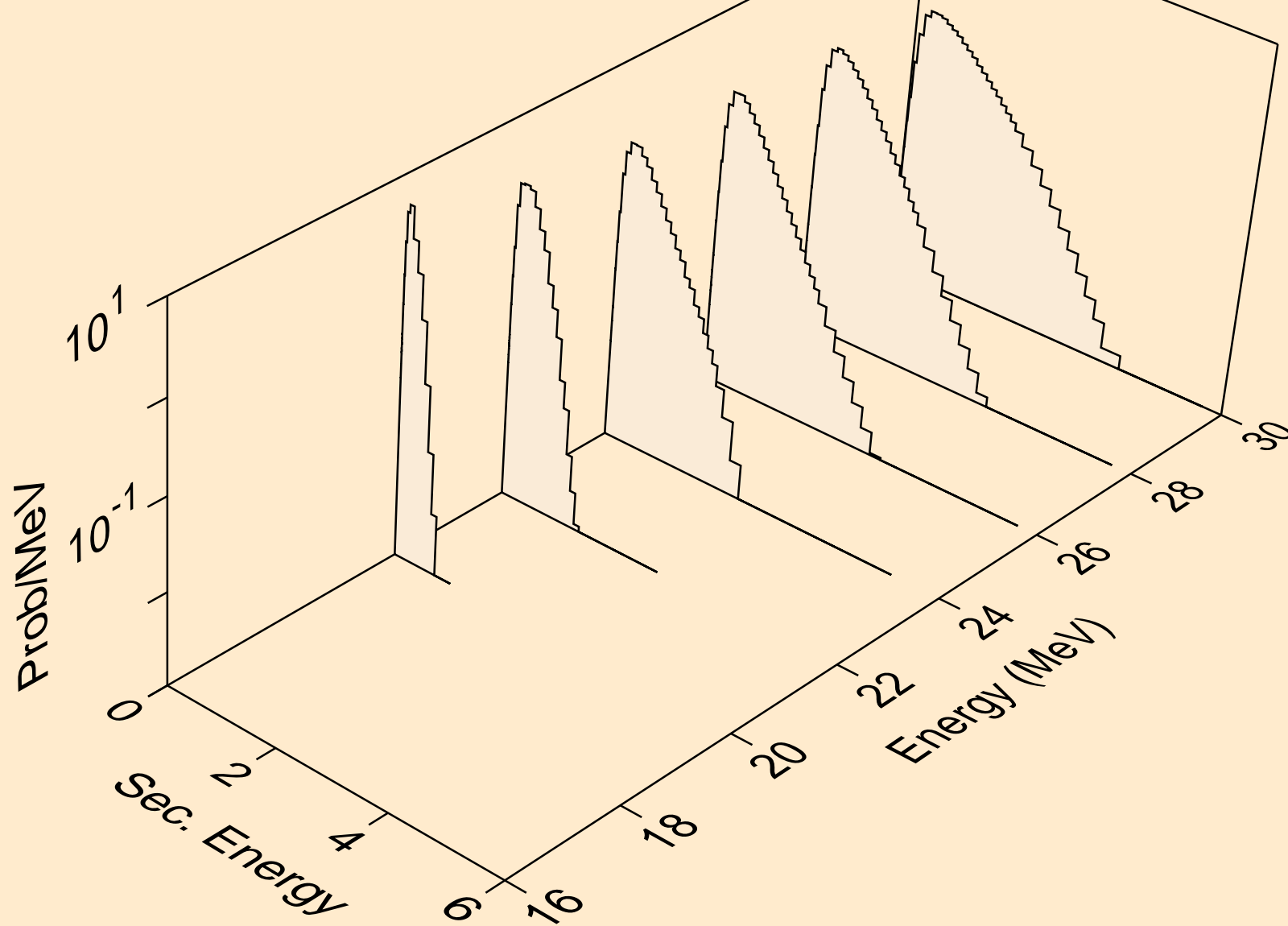
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



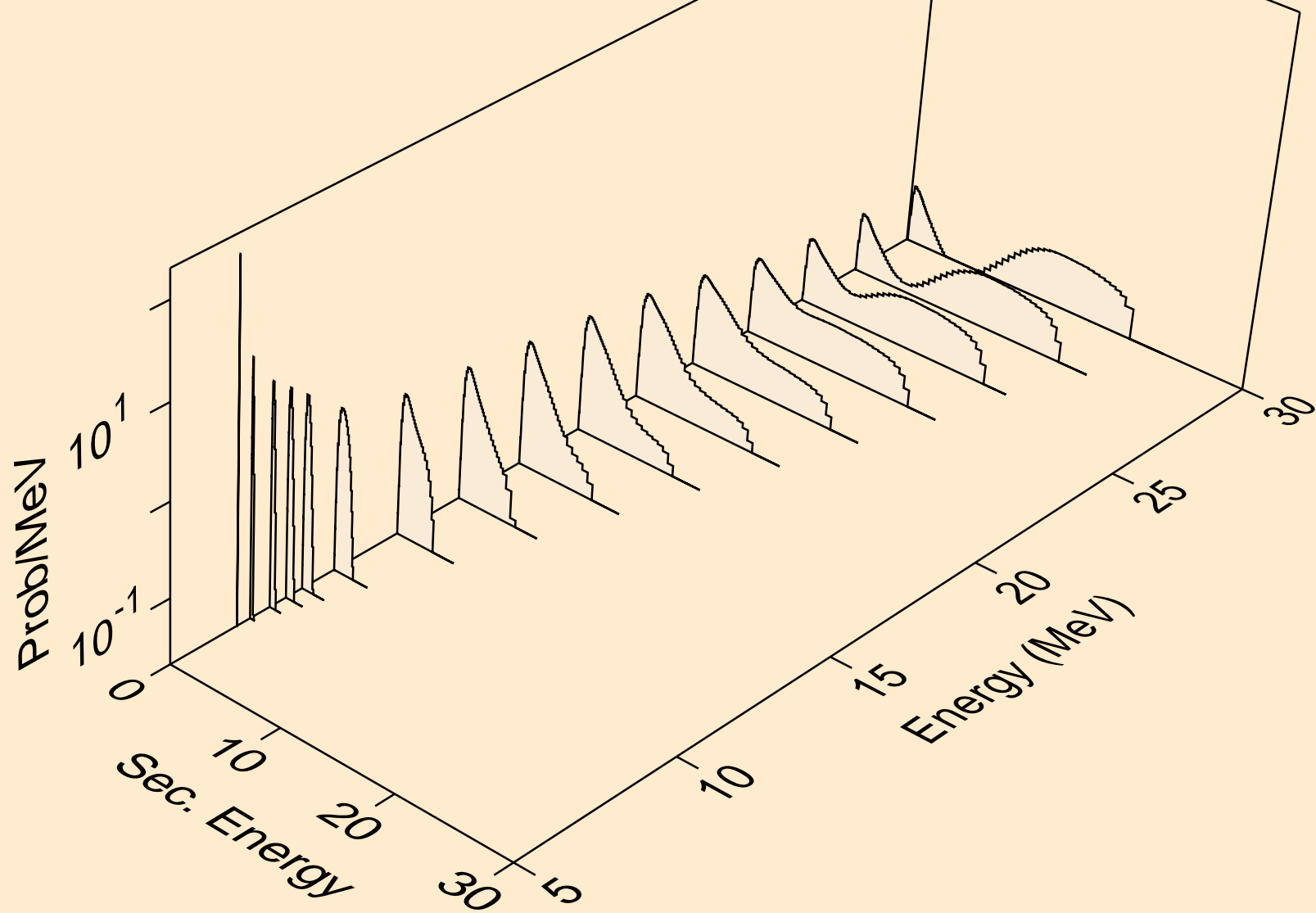
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



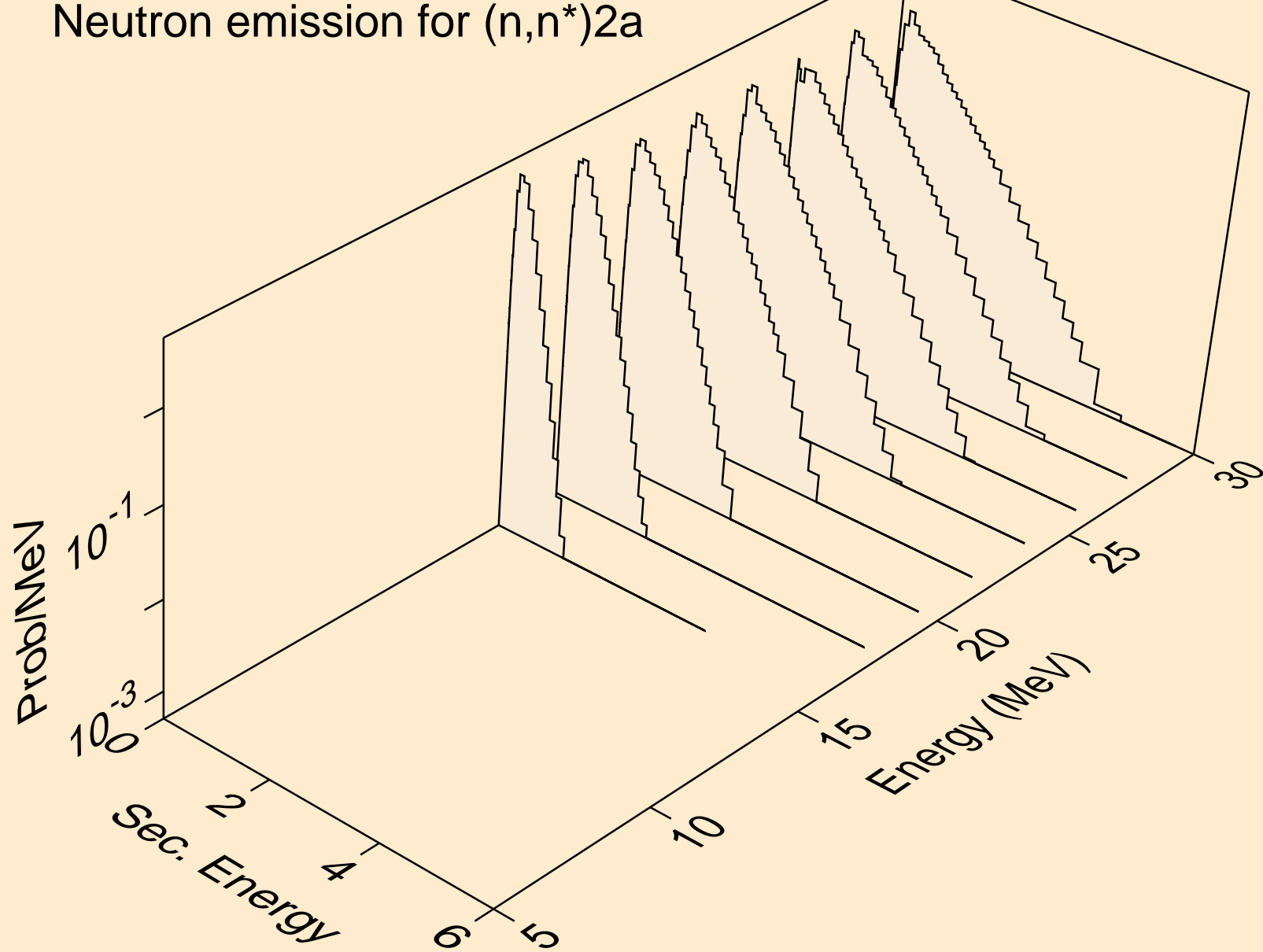
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



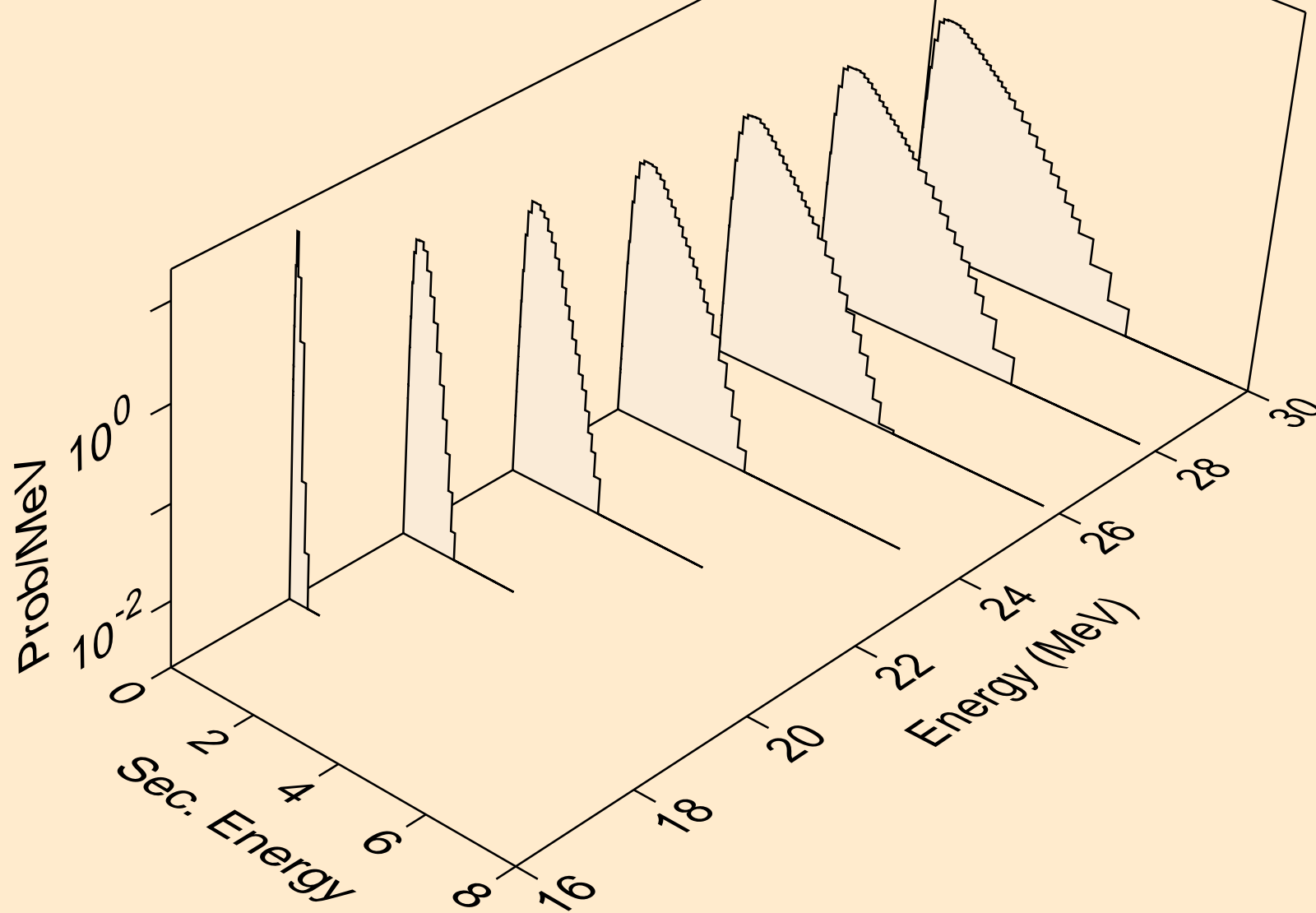
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a

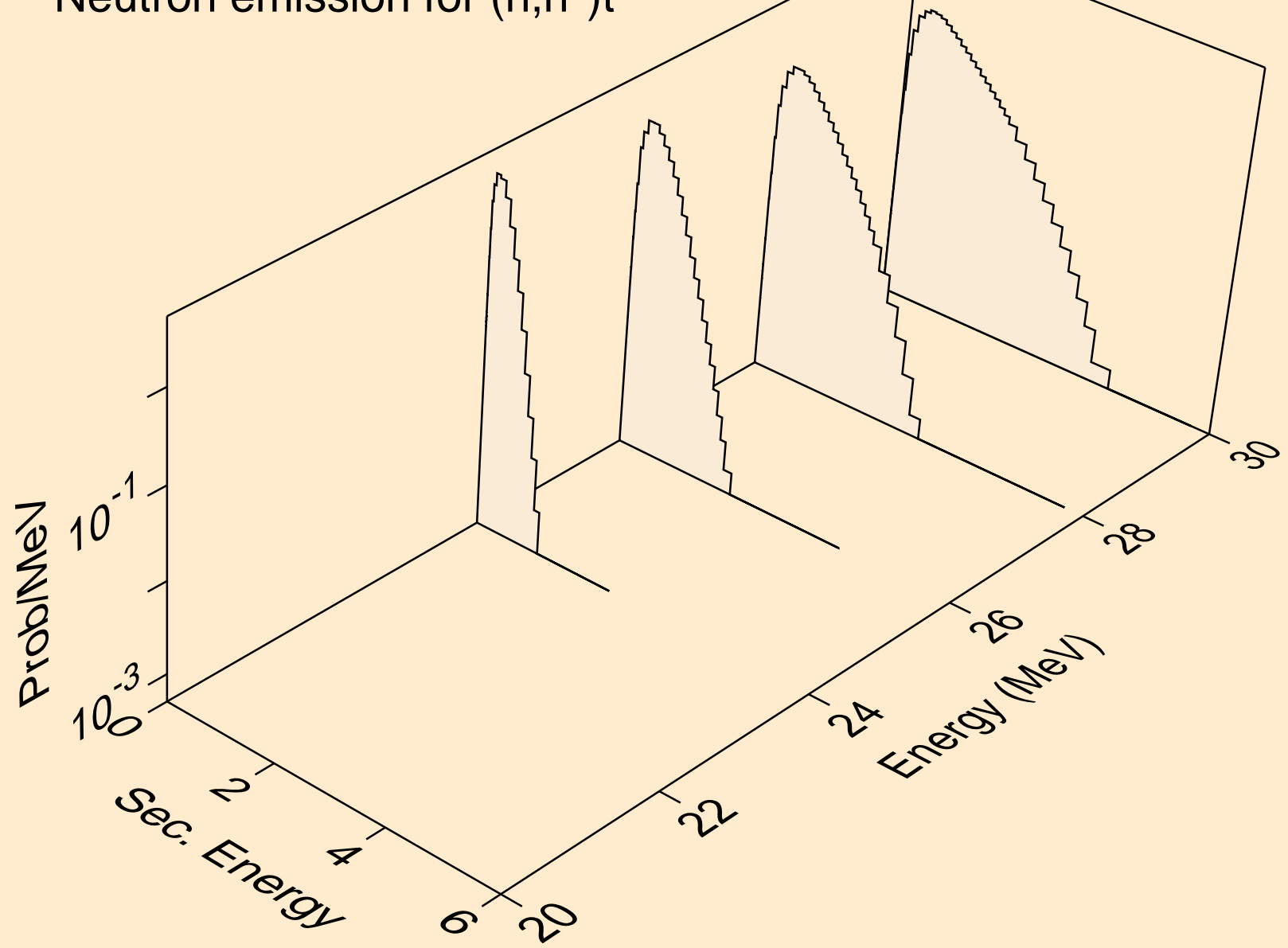


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

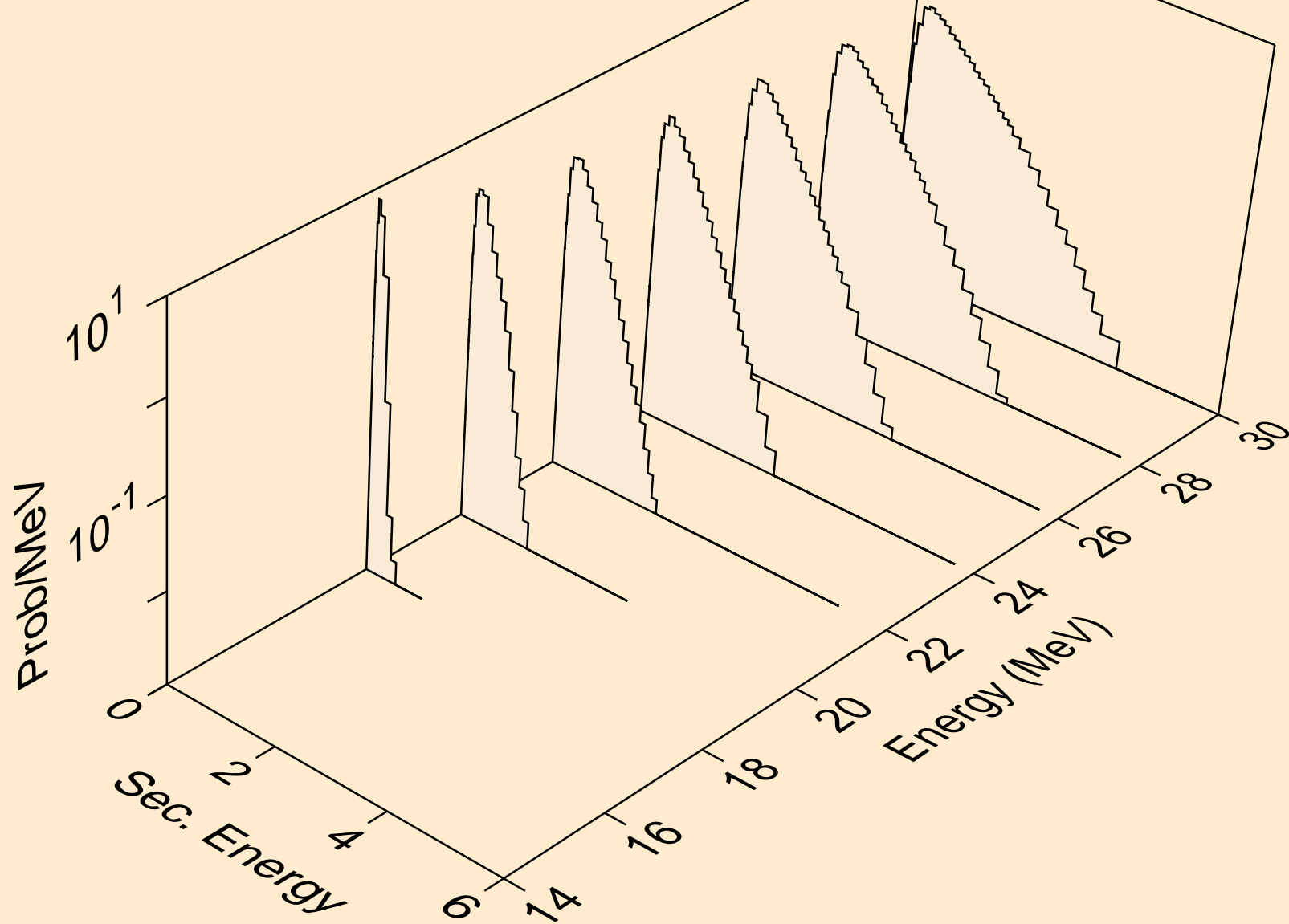




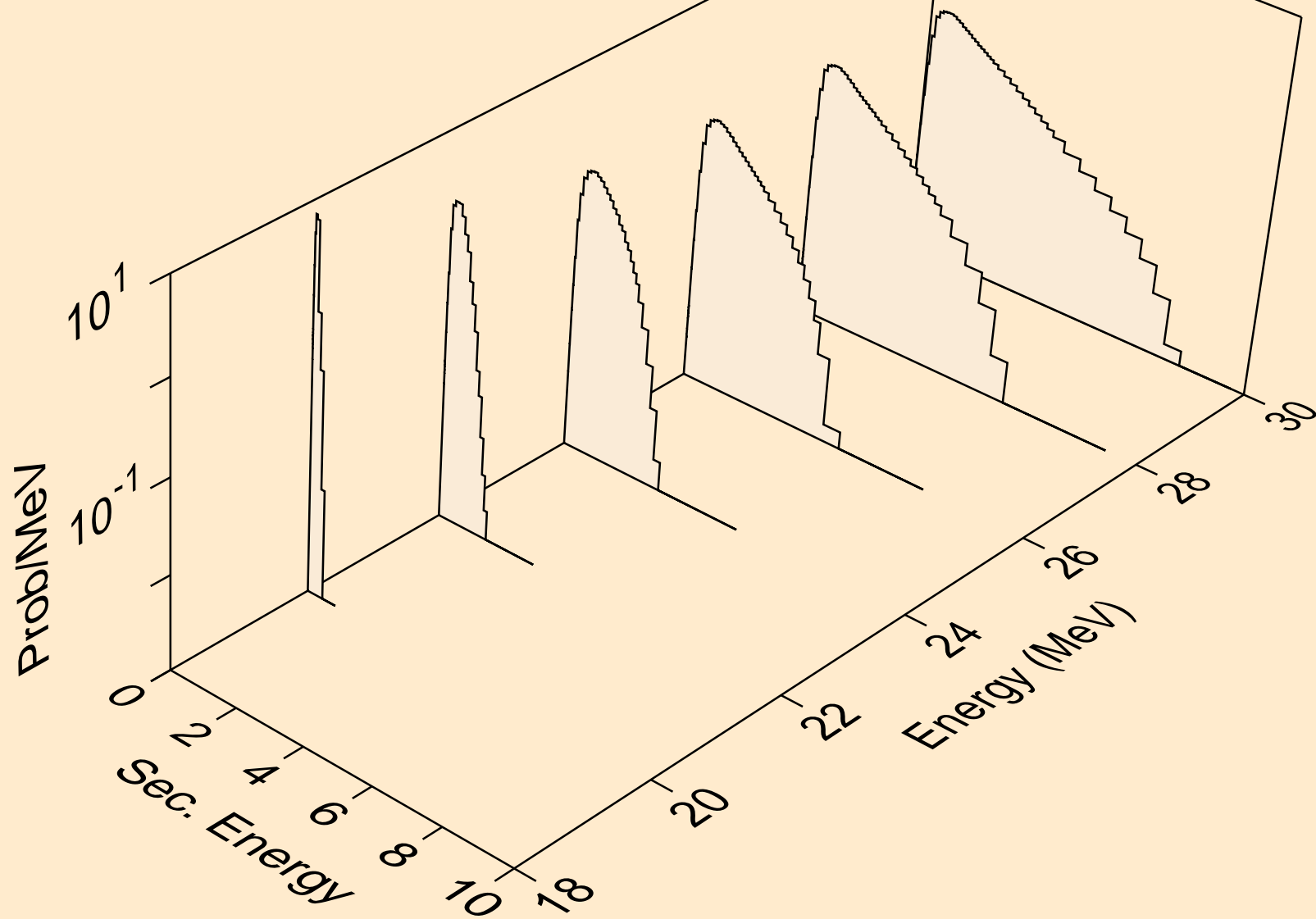
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



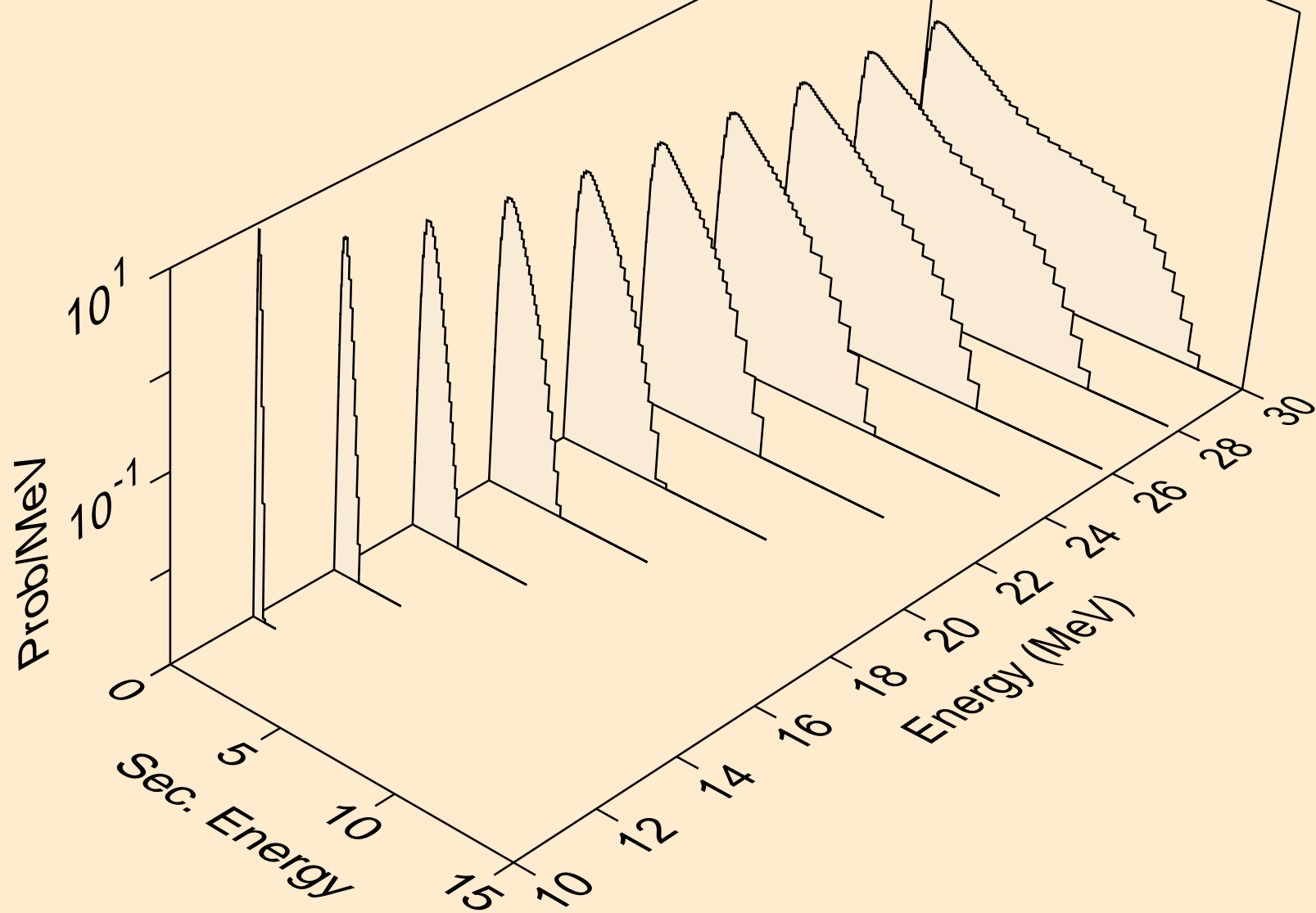
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



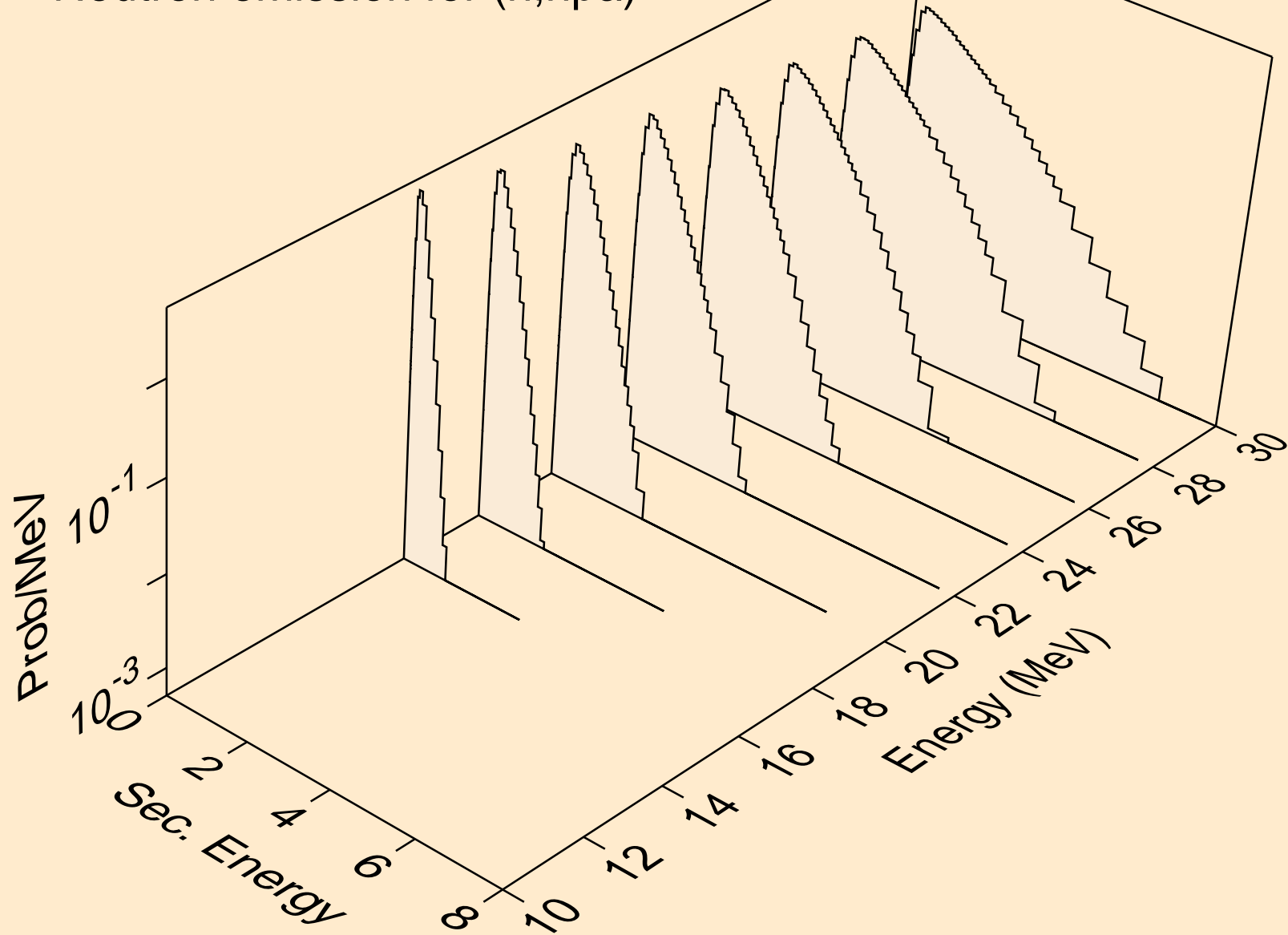
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



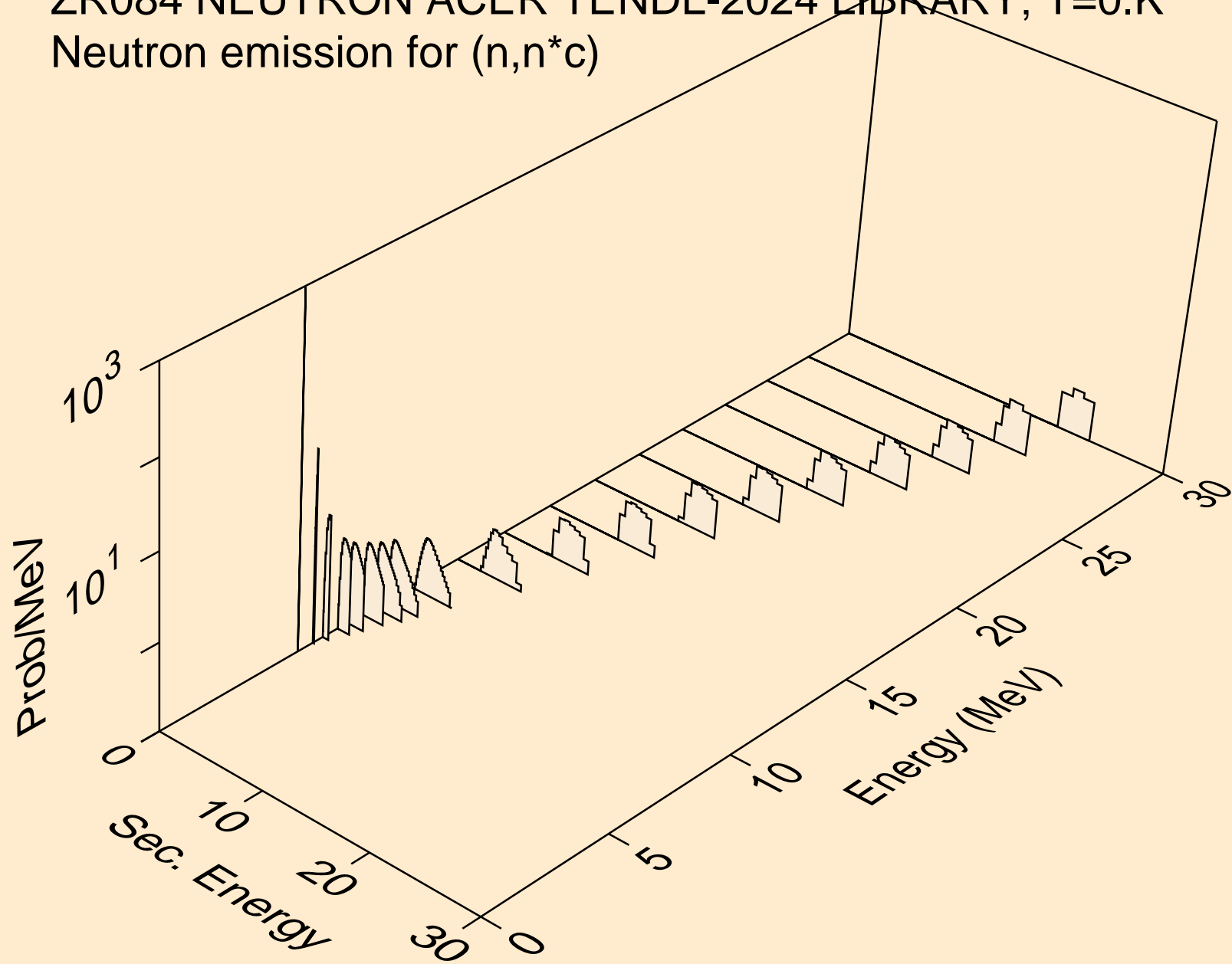
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



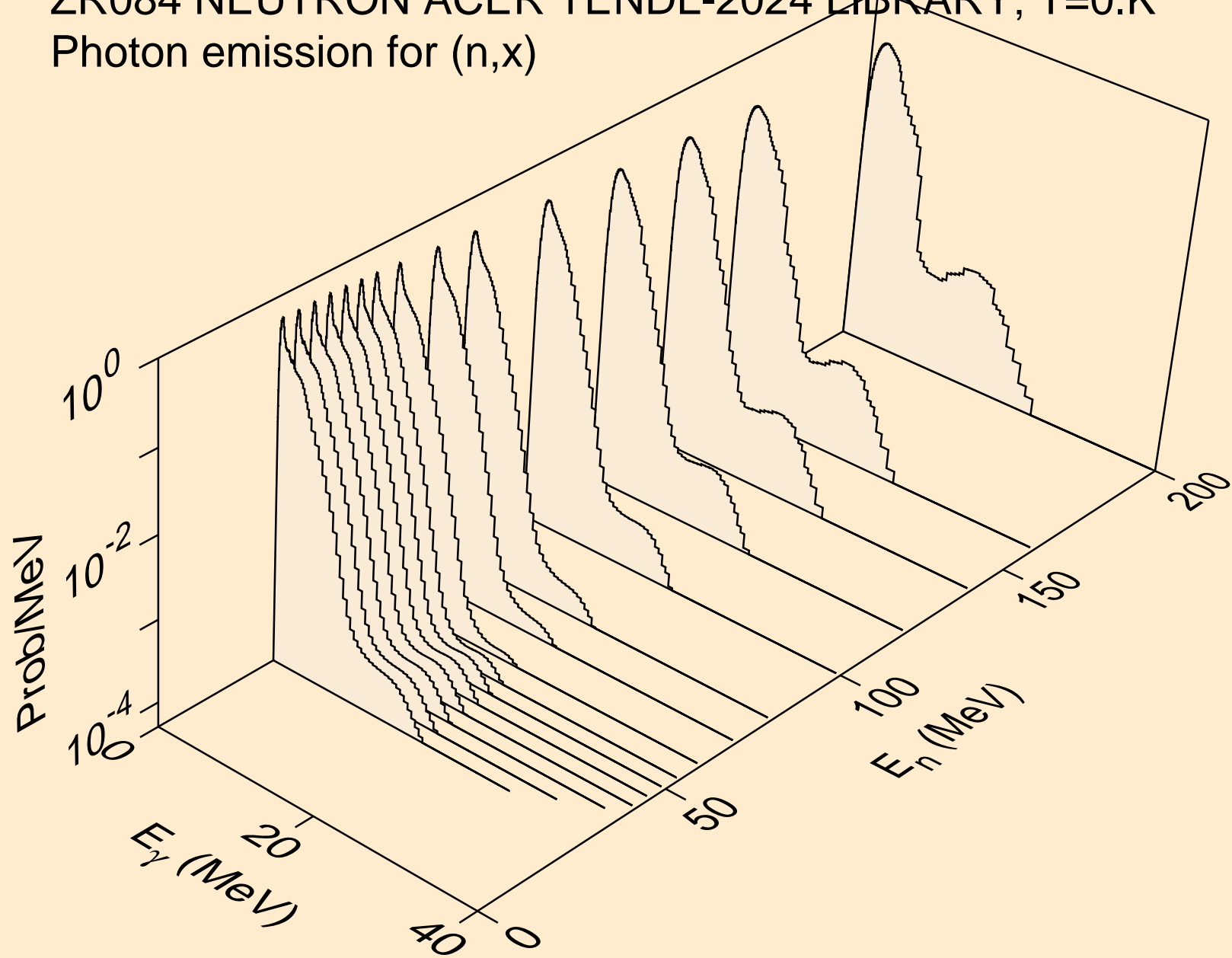
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Neutron emission for (n,npa)



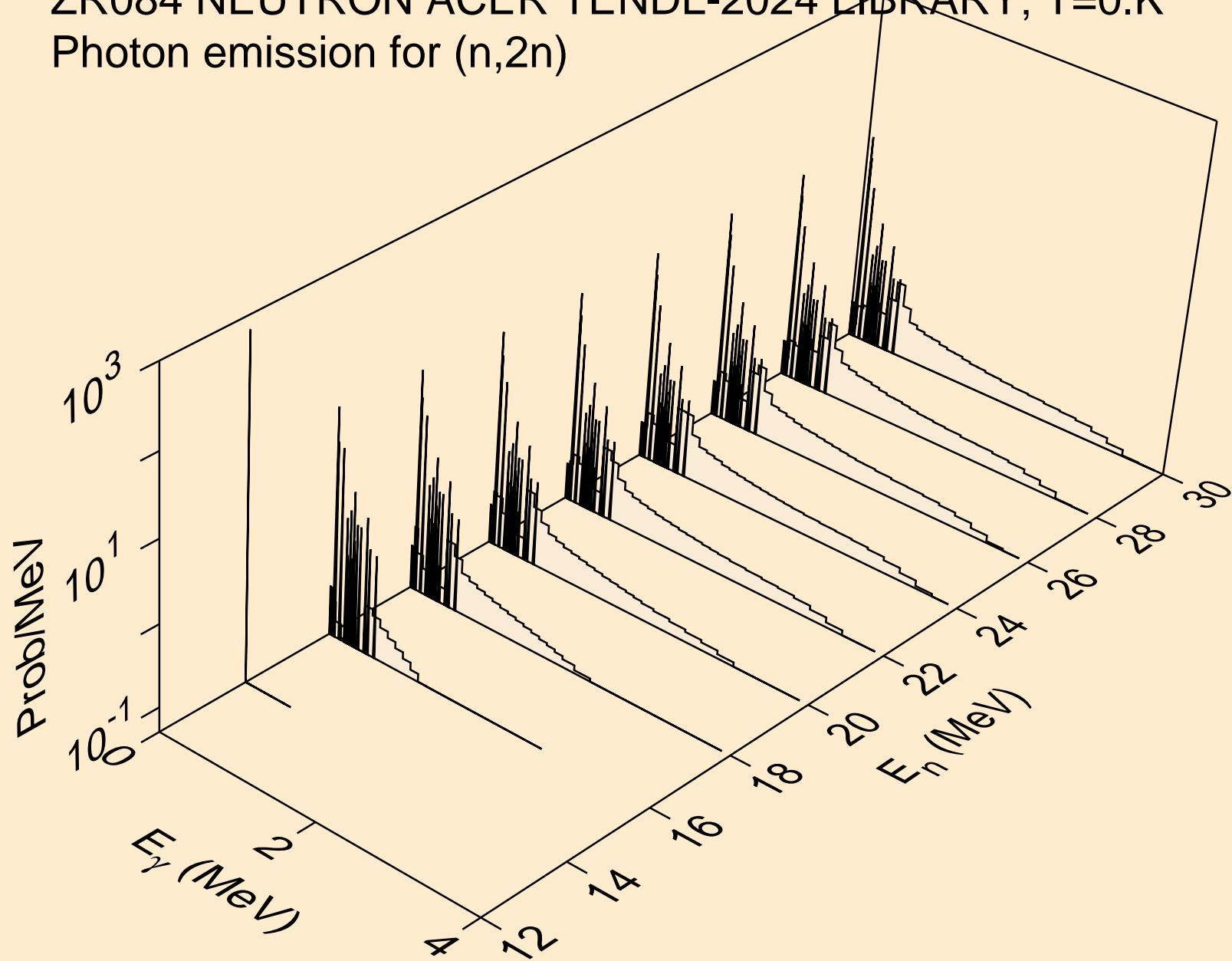
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)

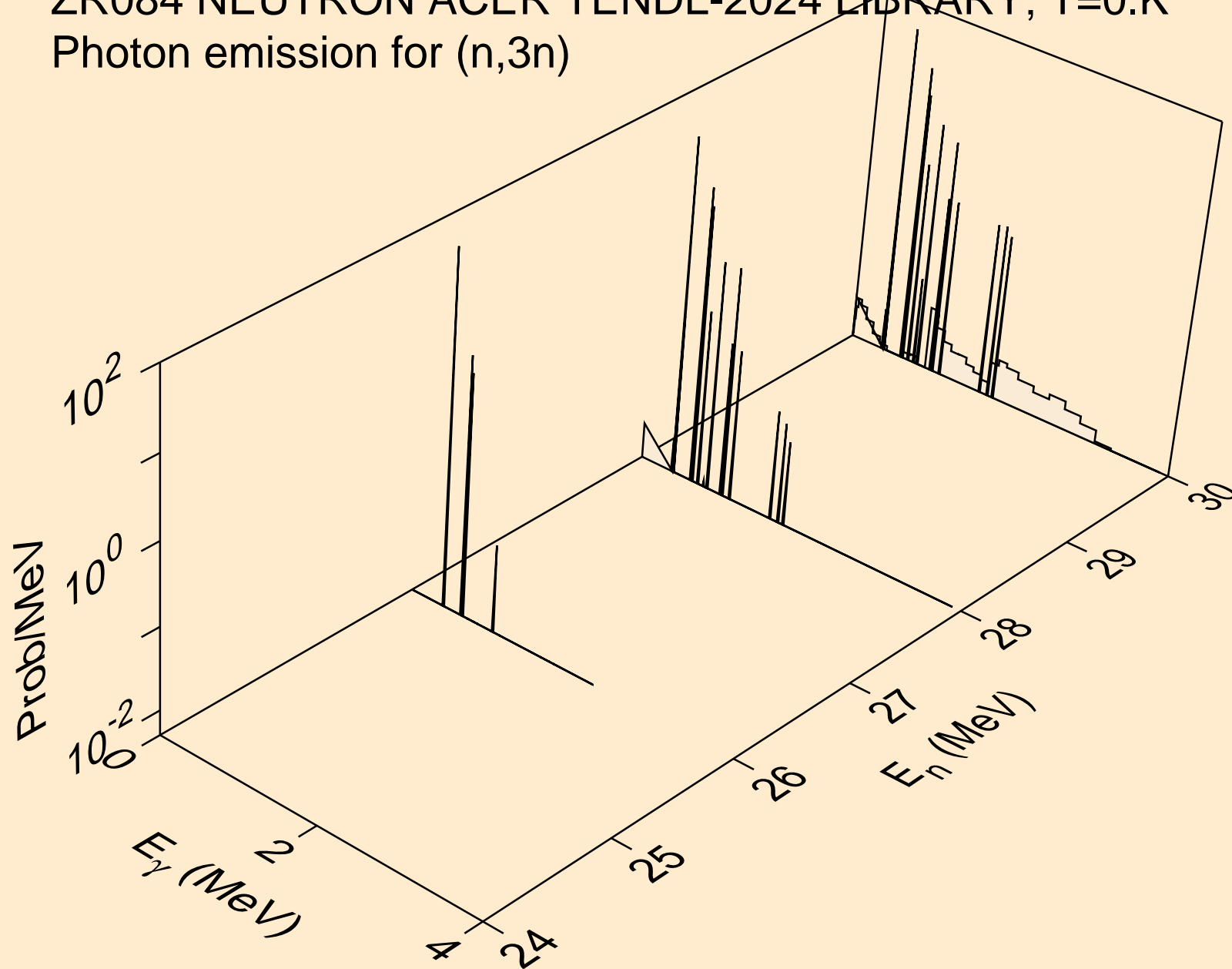


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)

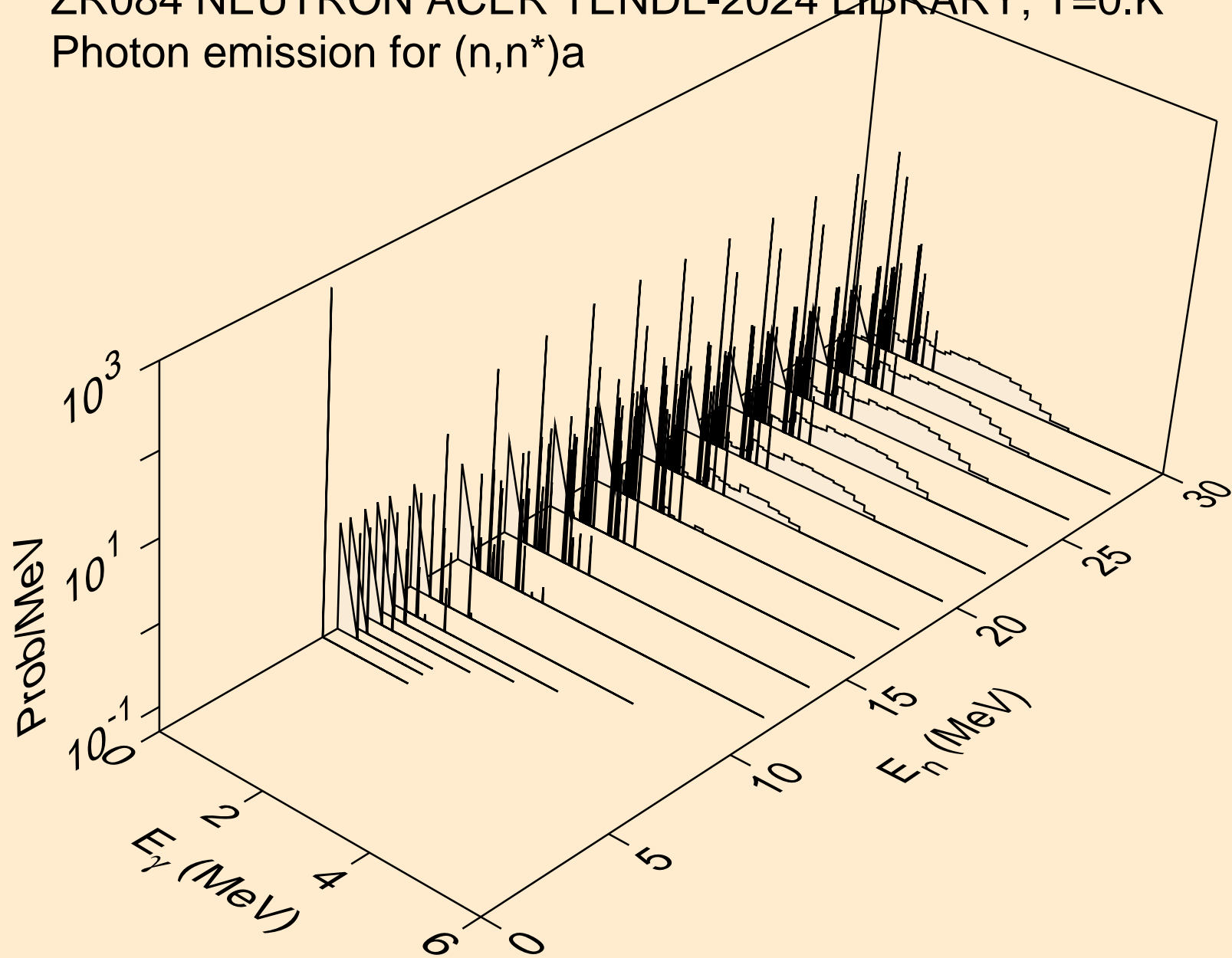




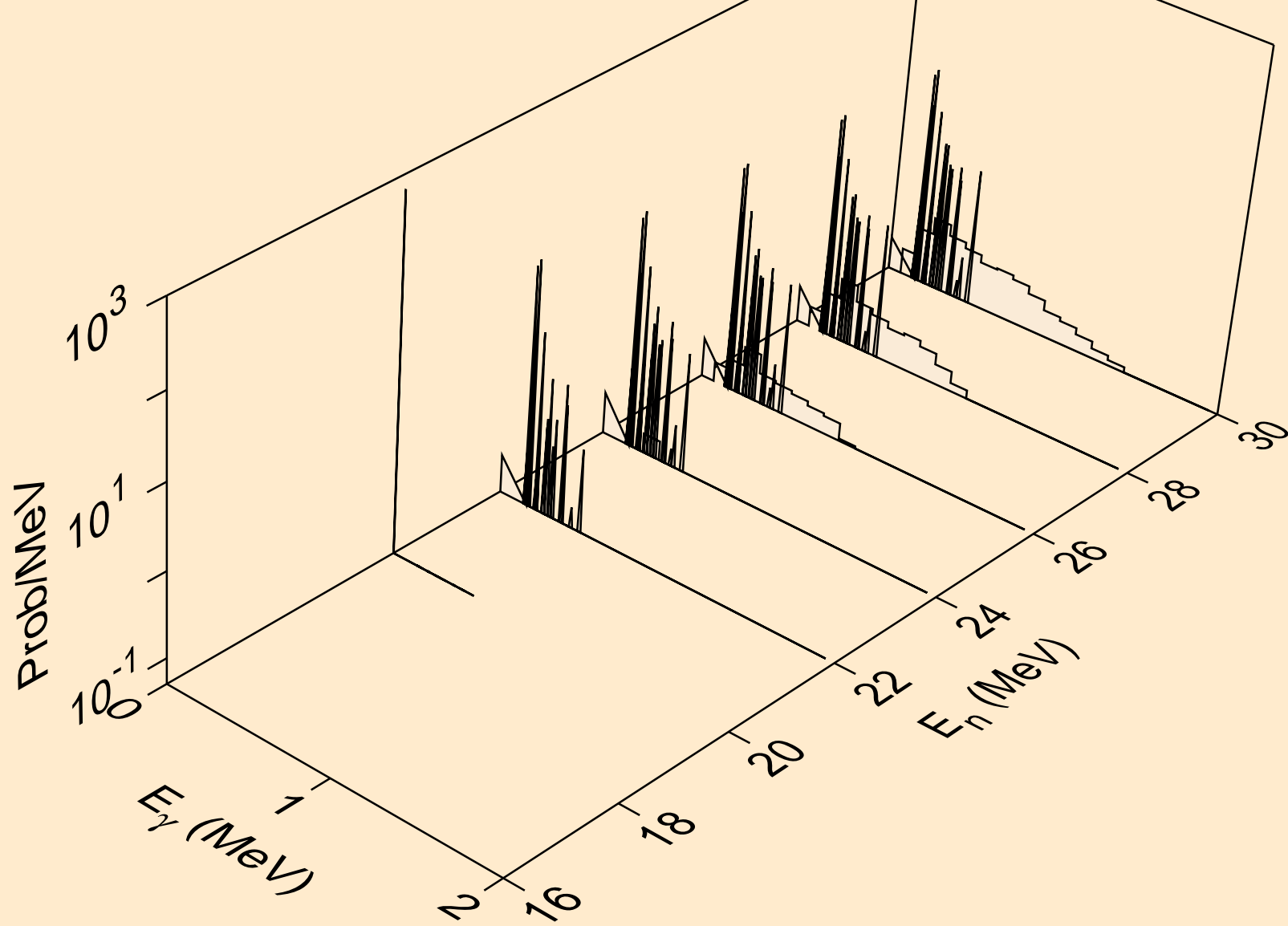
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)



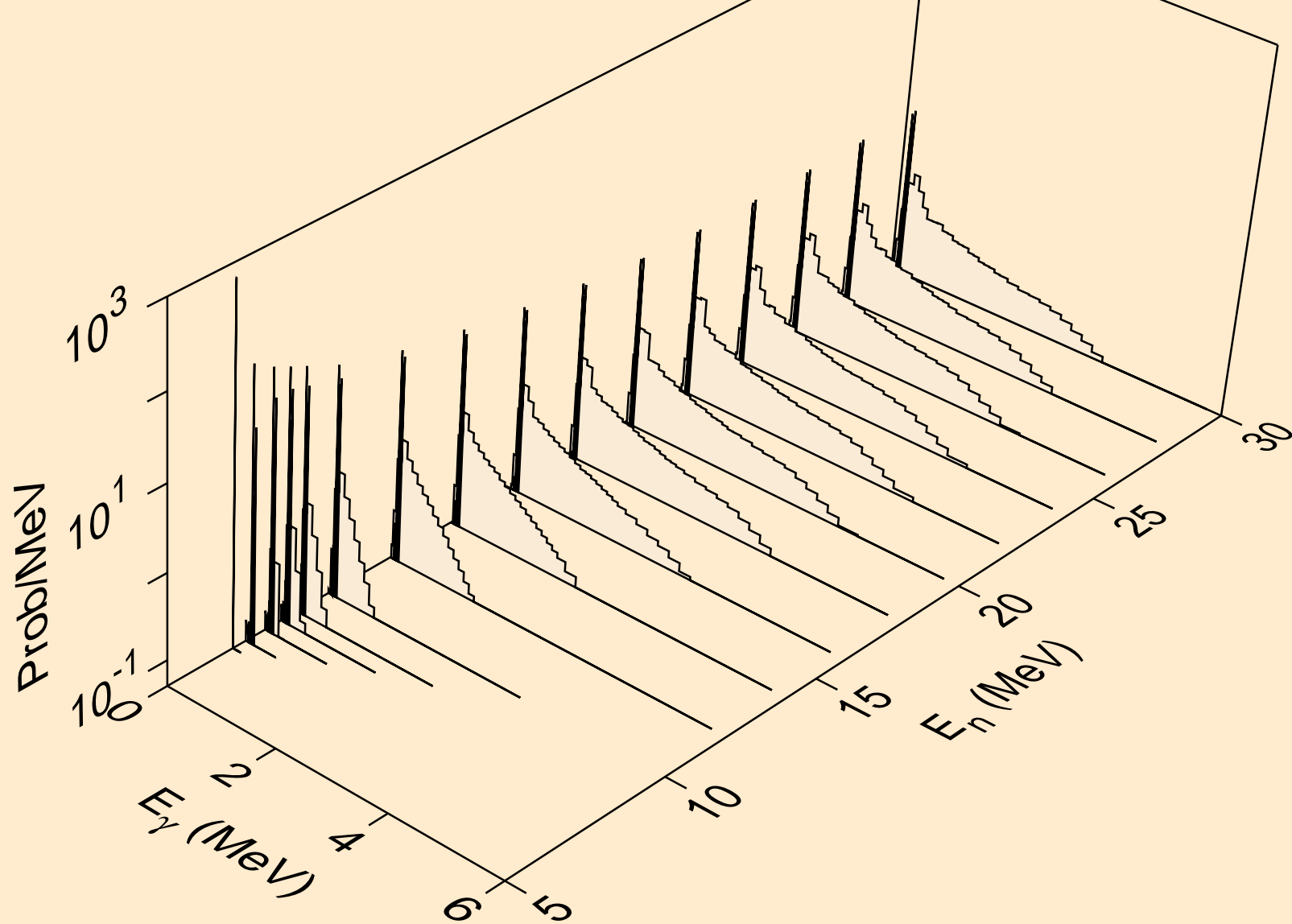
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Photon emission for (n,n\*)a



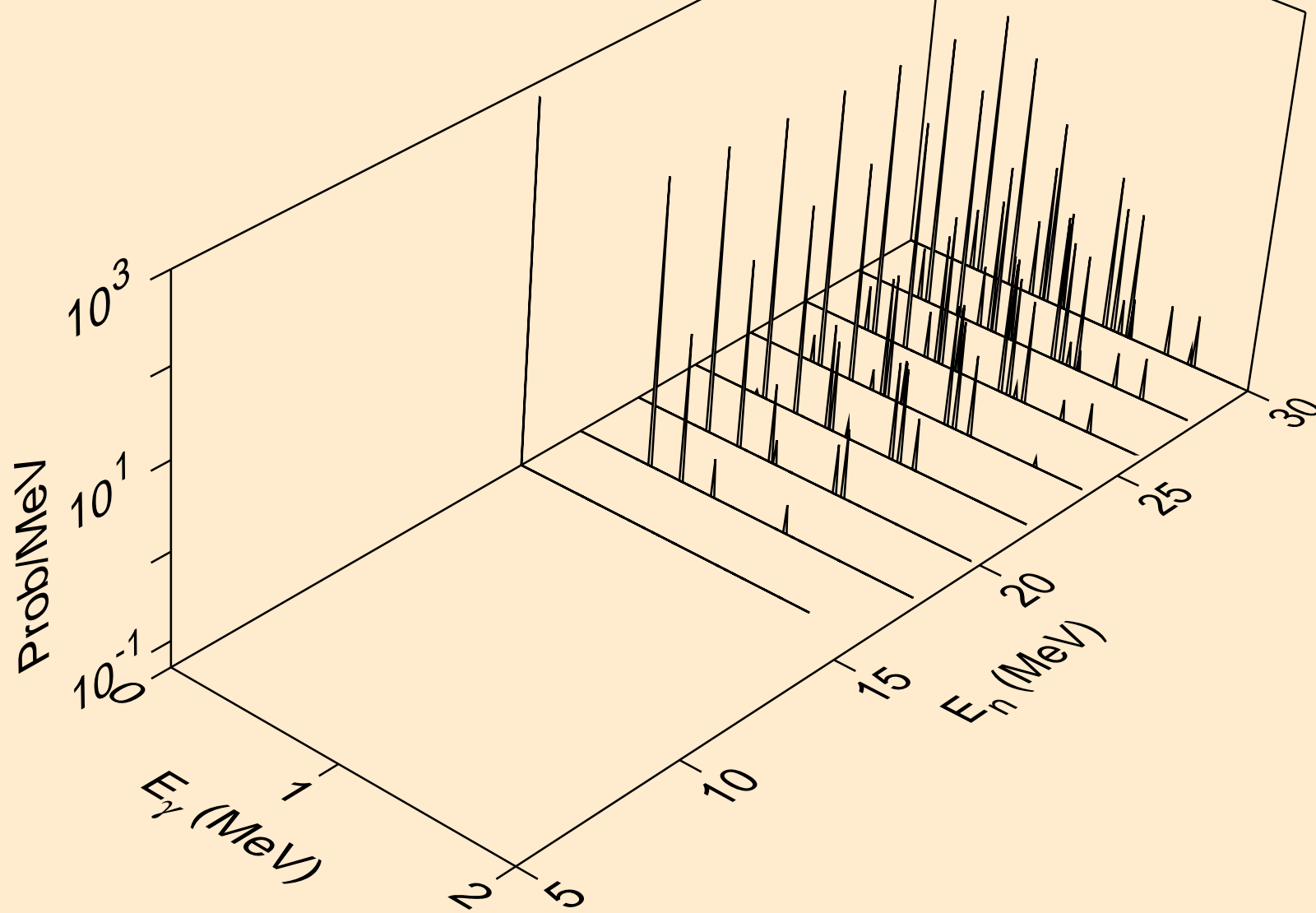
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Photon emission for (n,2n)a



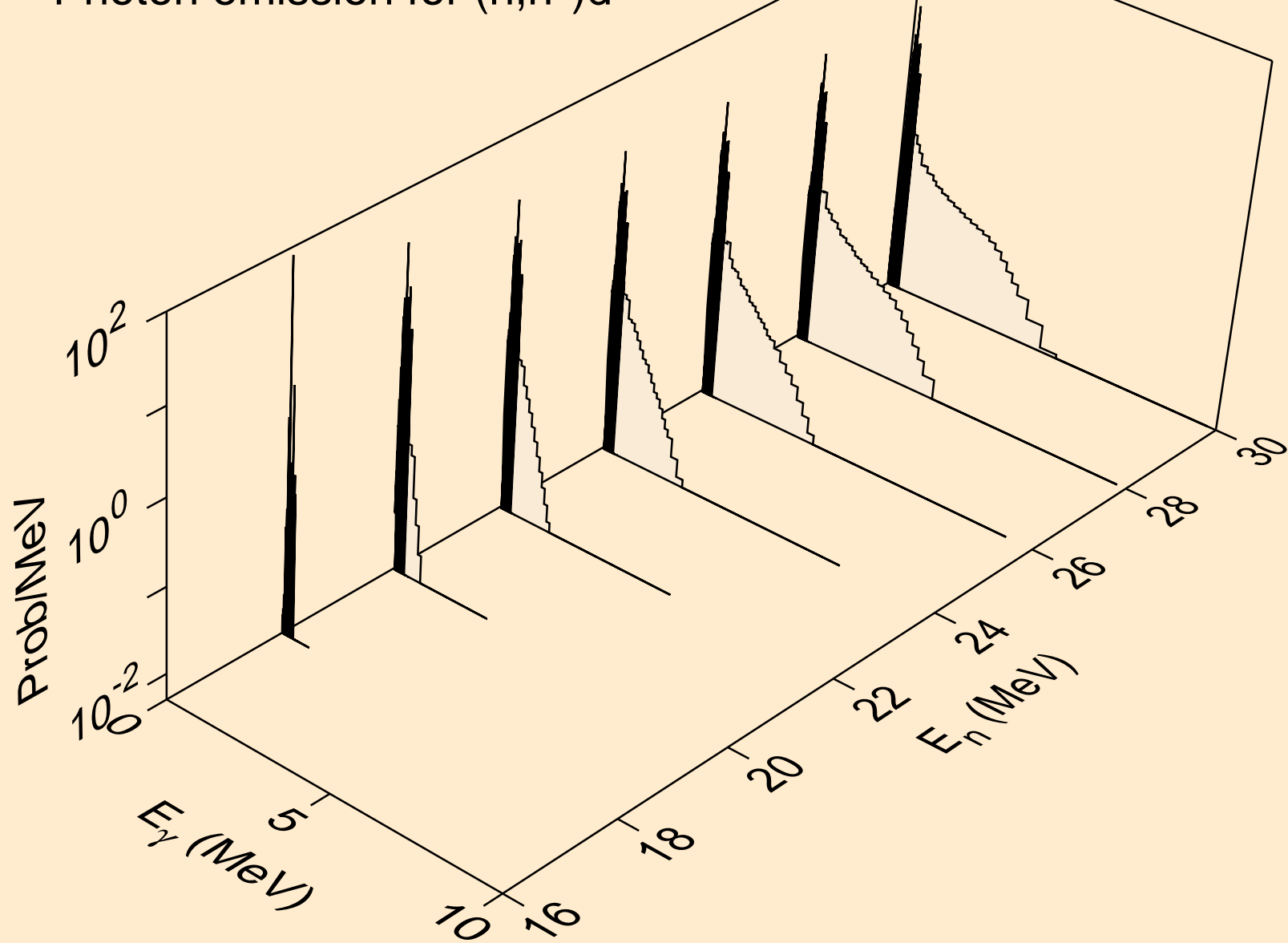
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



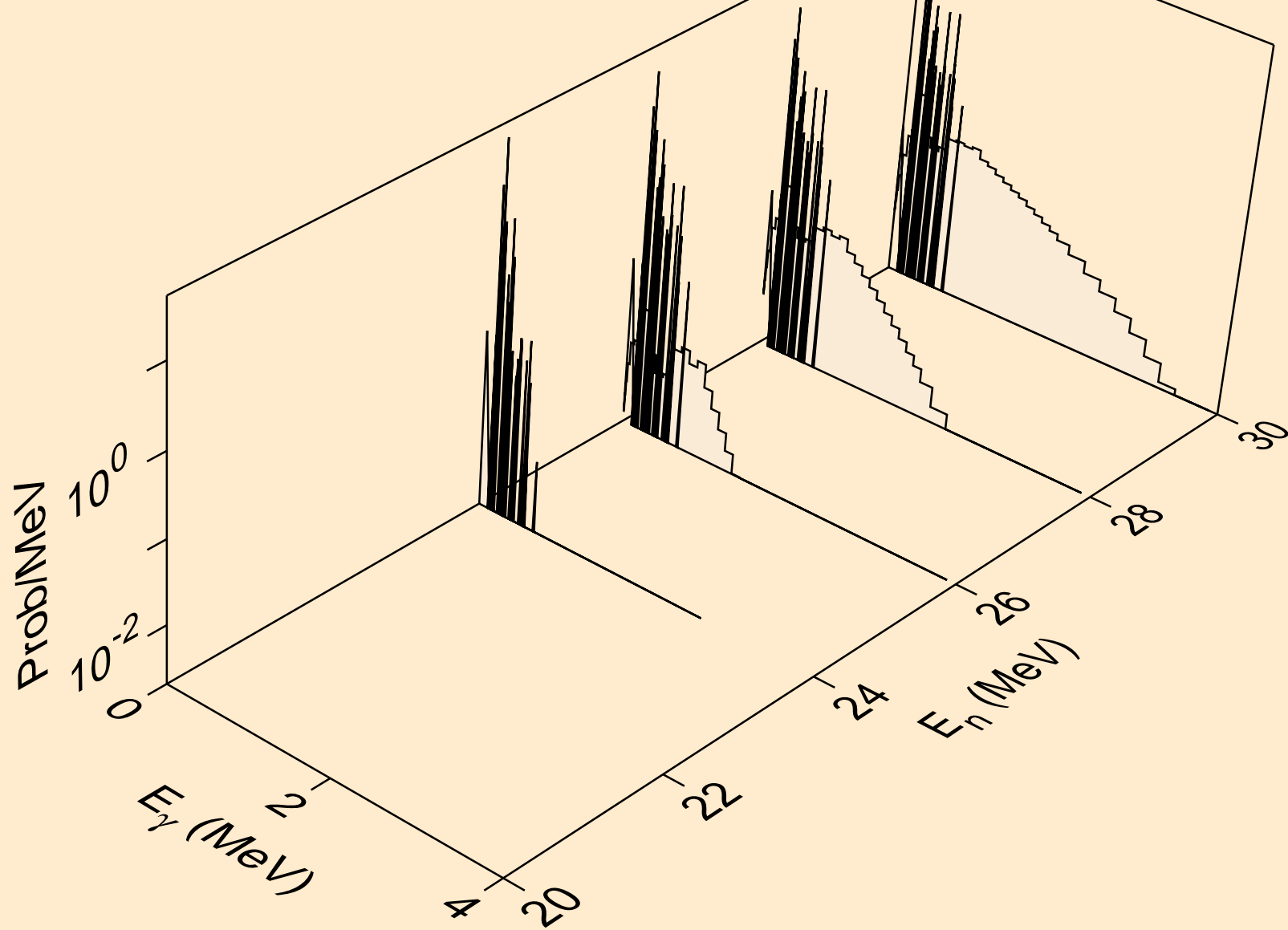
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Photon emission for (n,n\*)2a



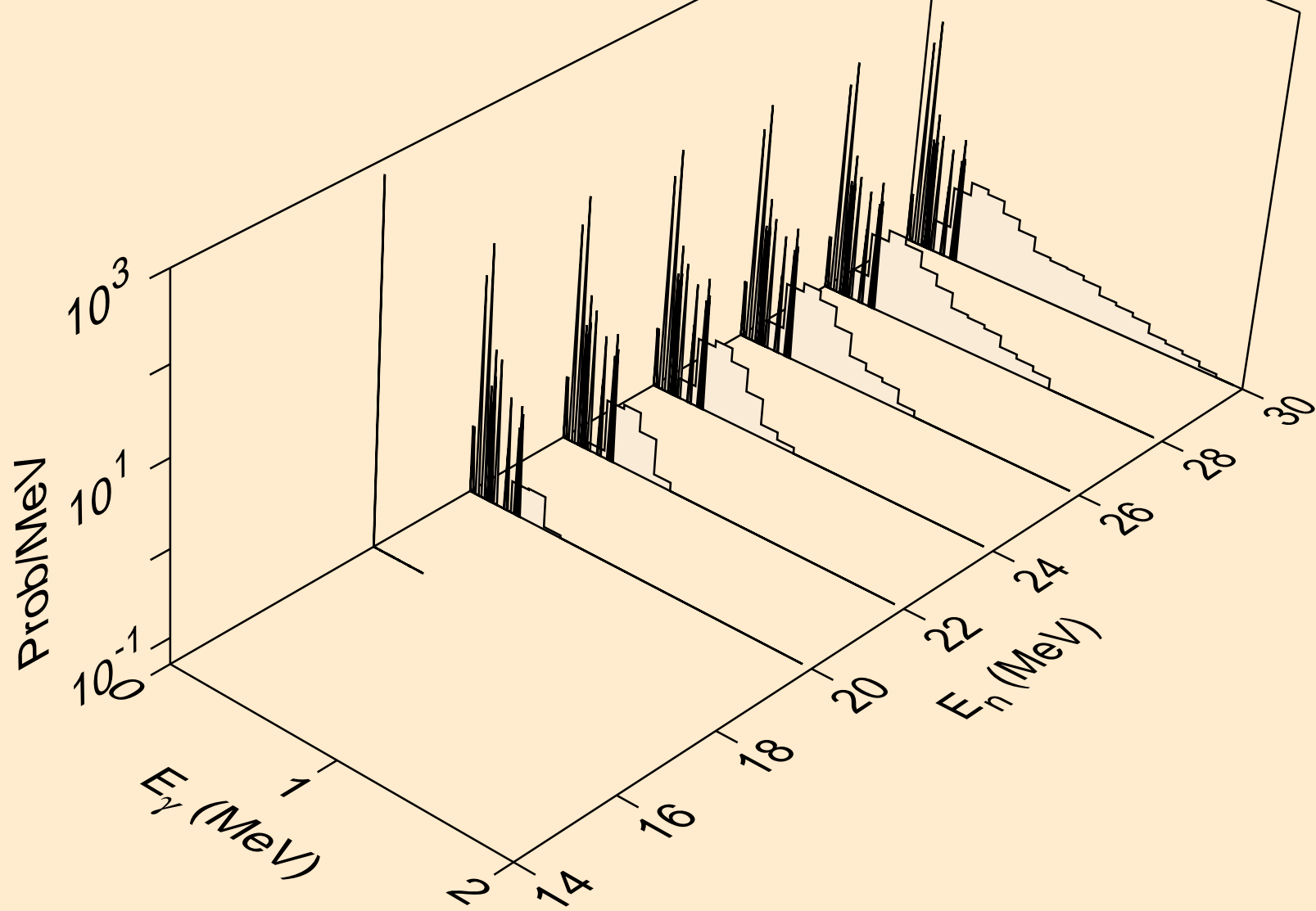
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

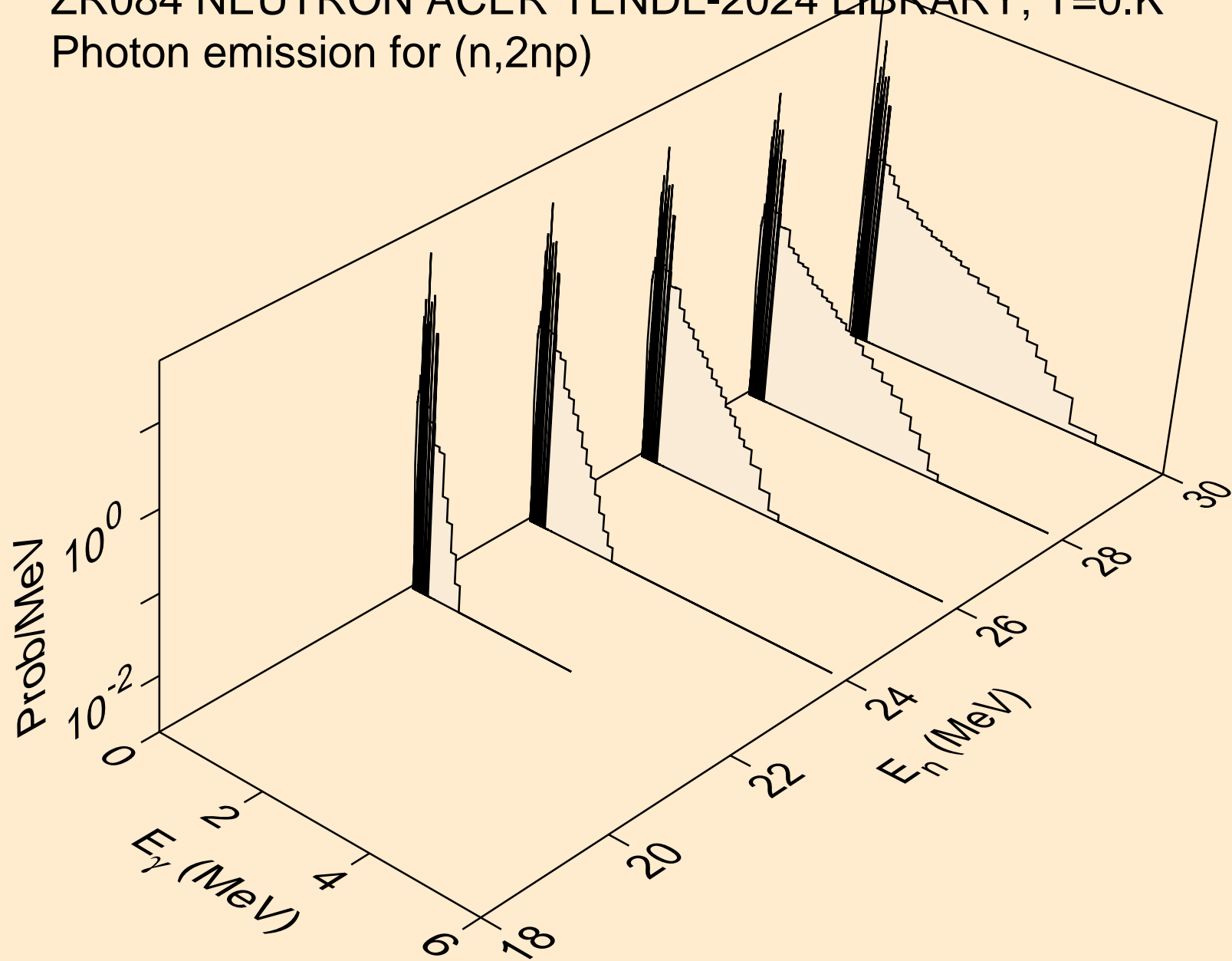


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

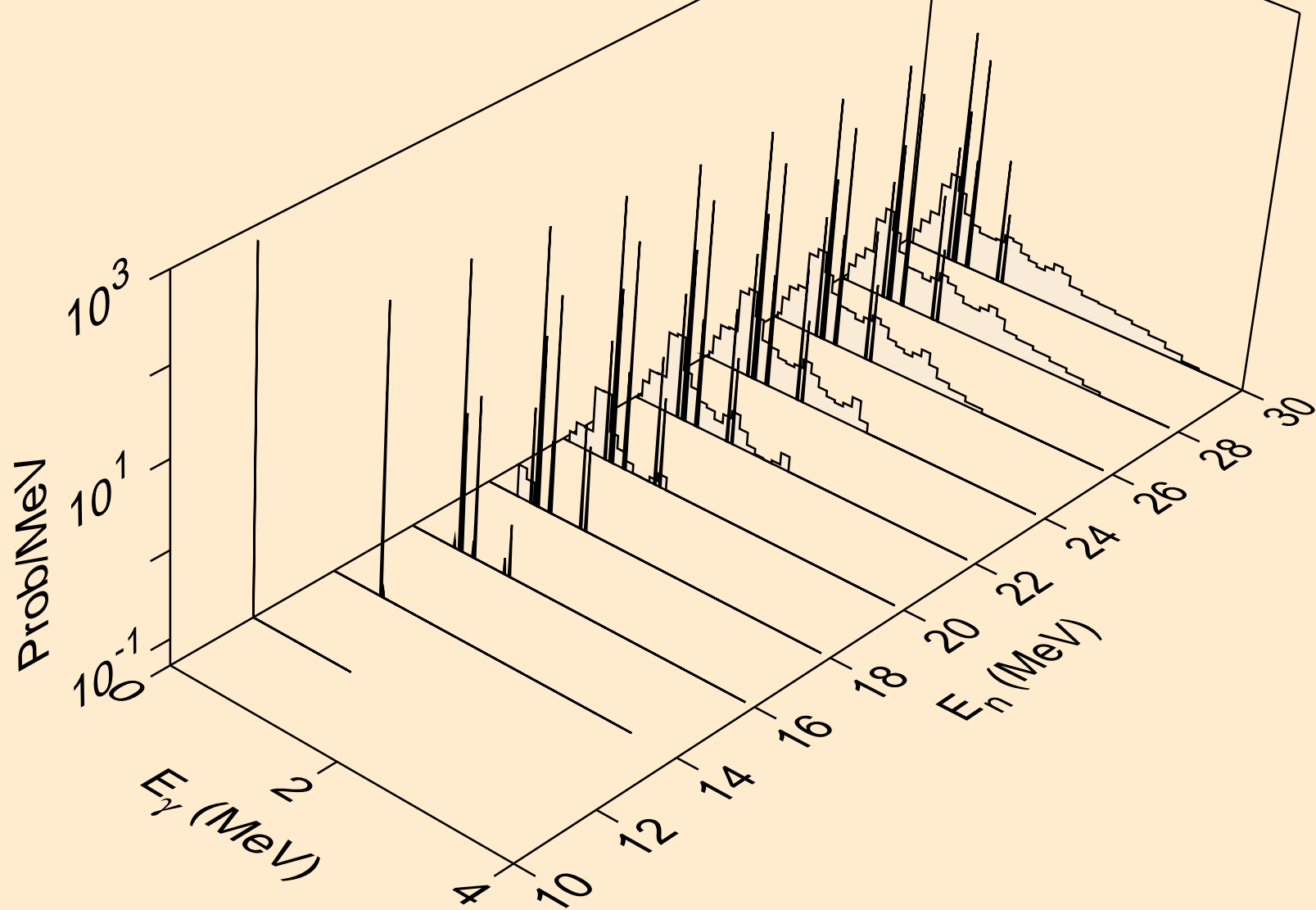




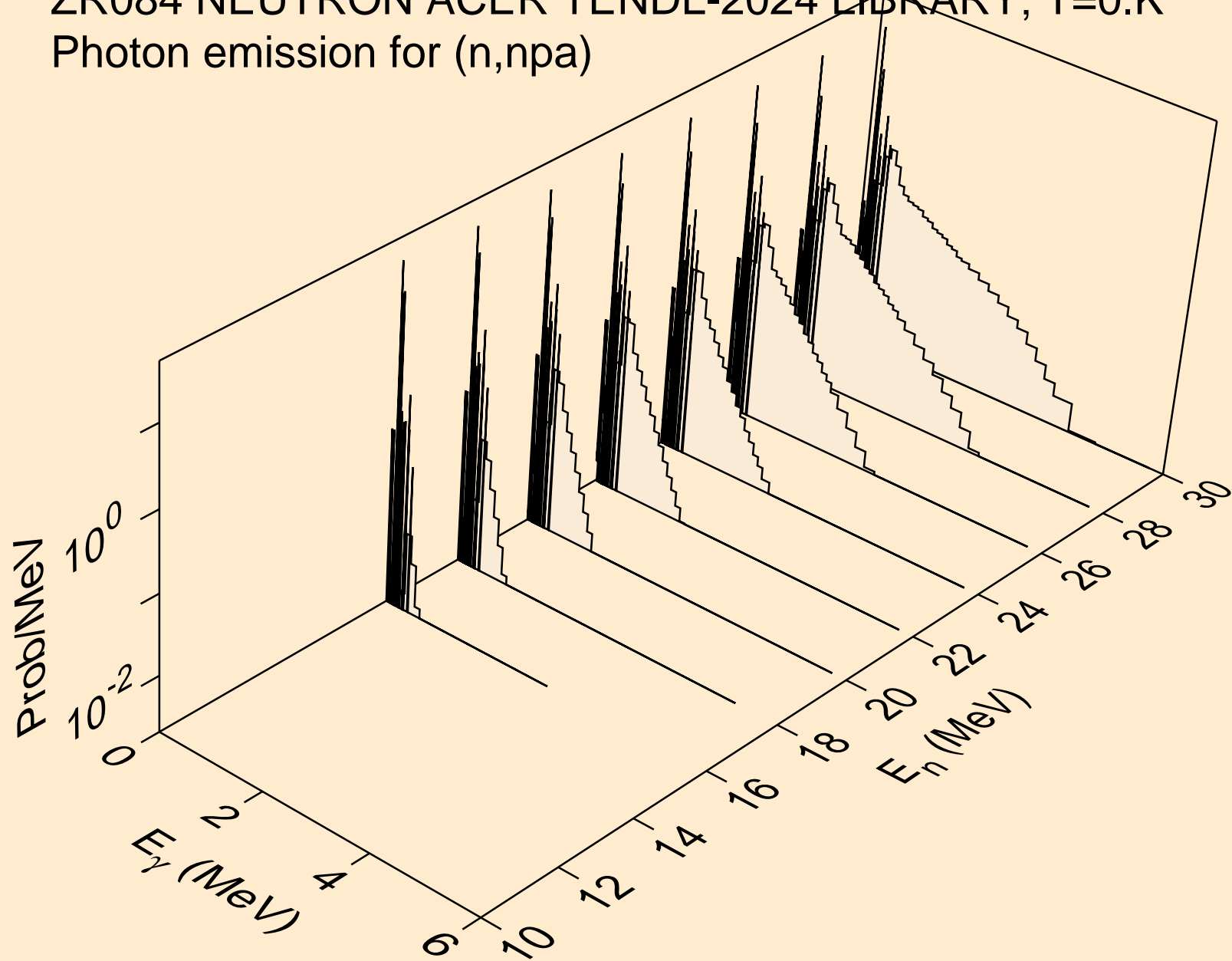
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



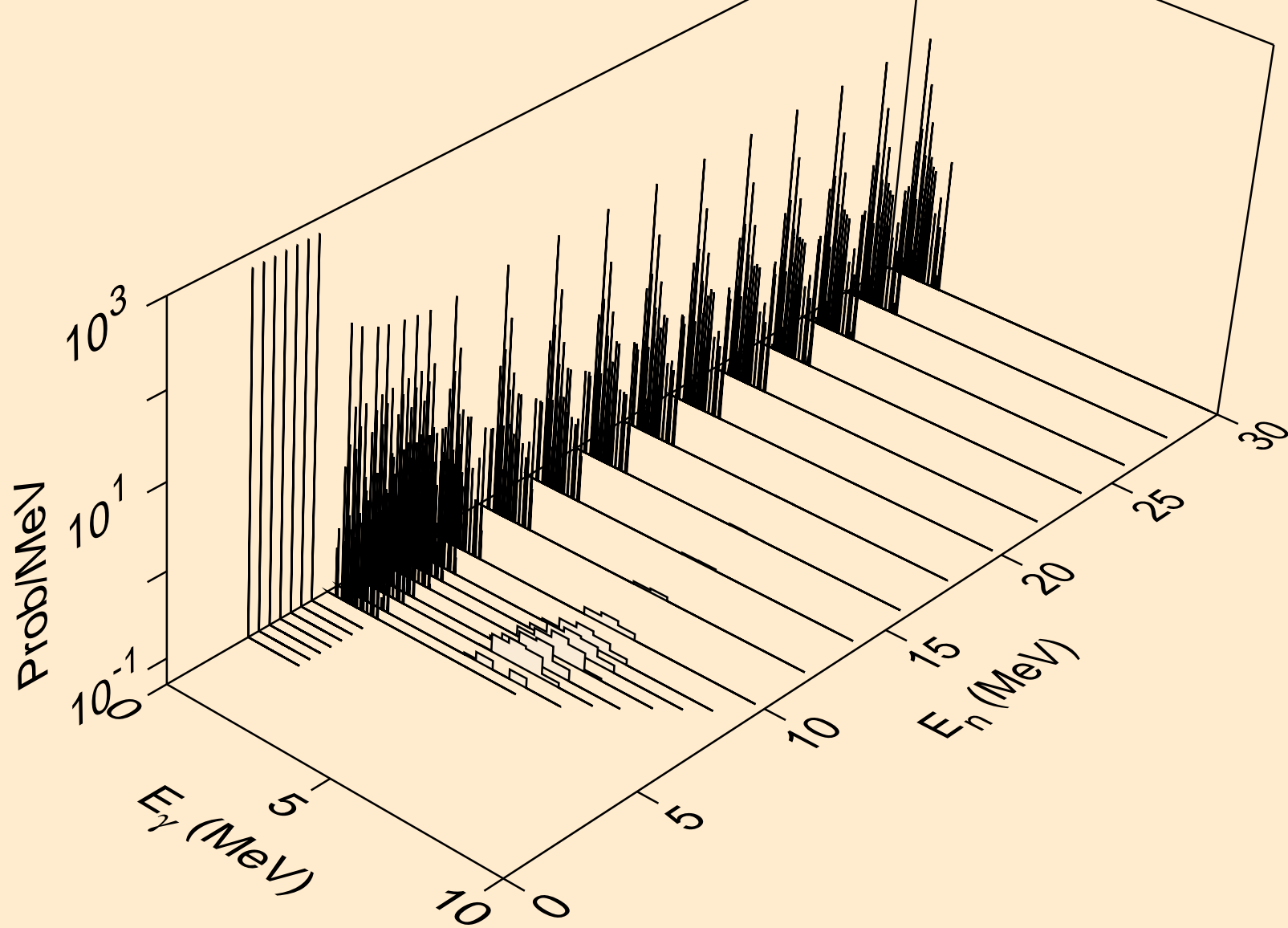
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n2p)



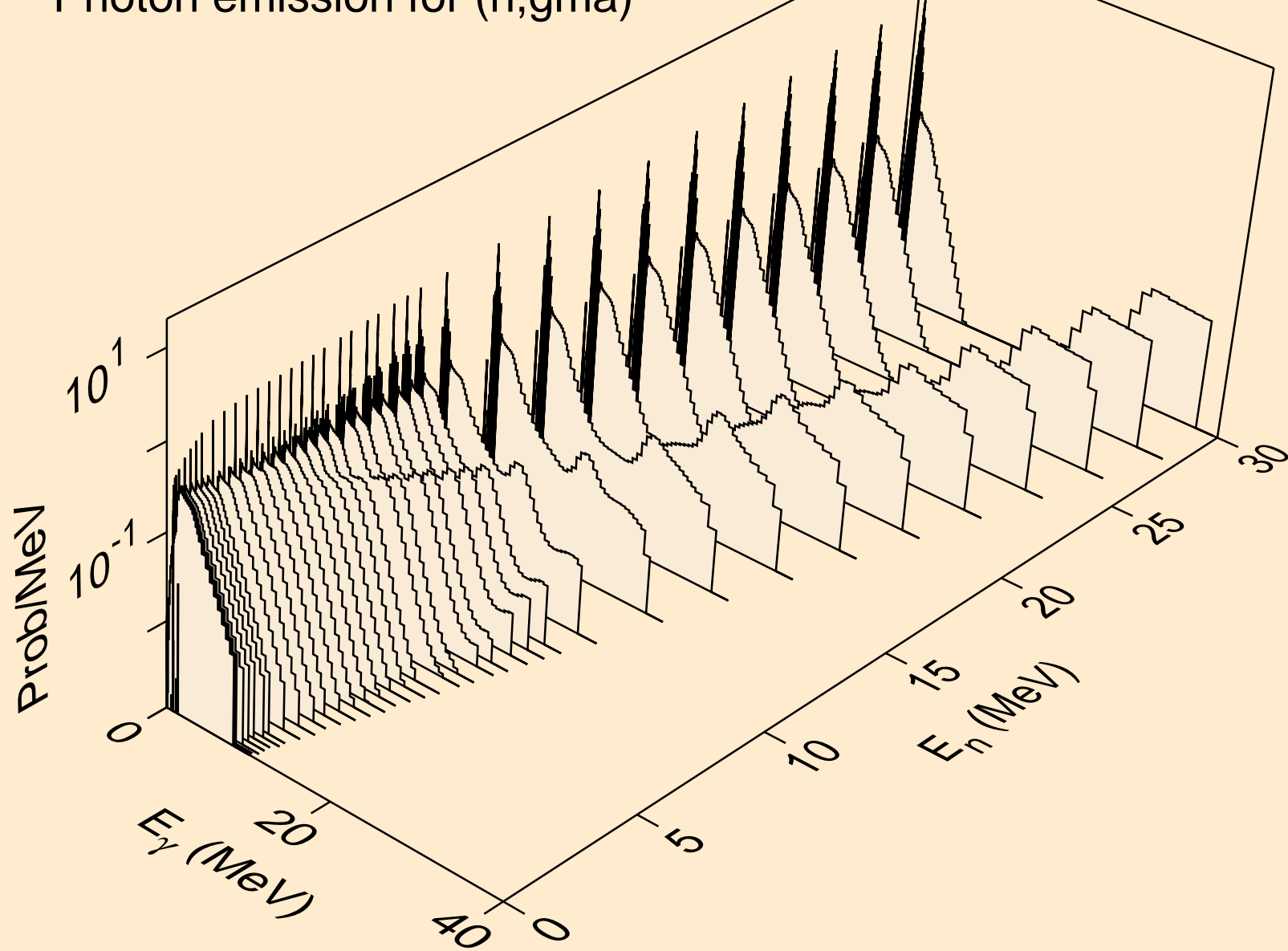
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,npa)



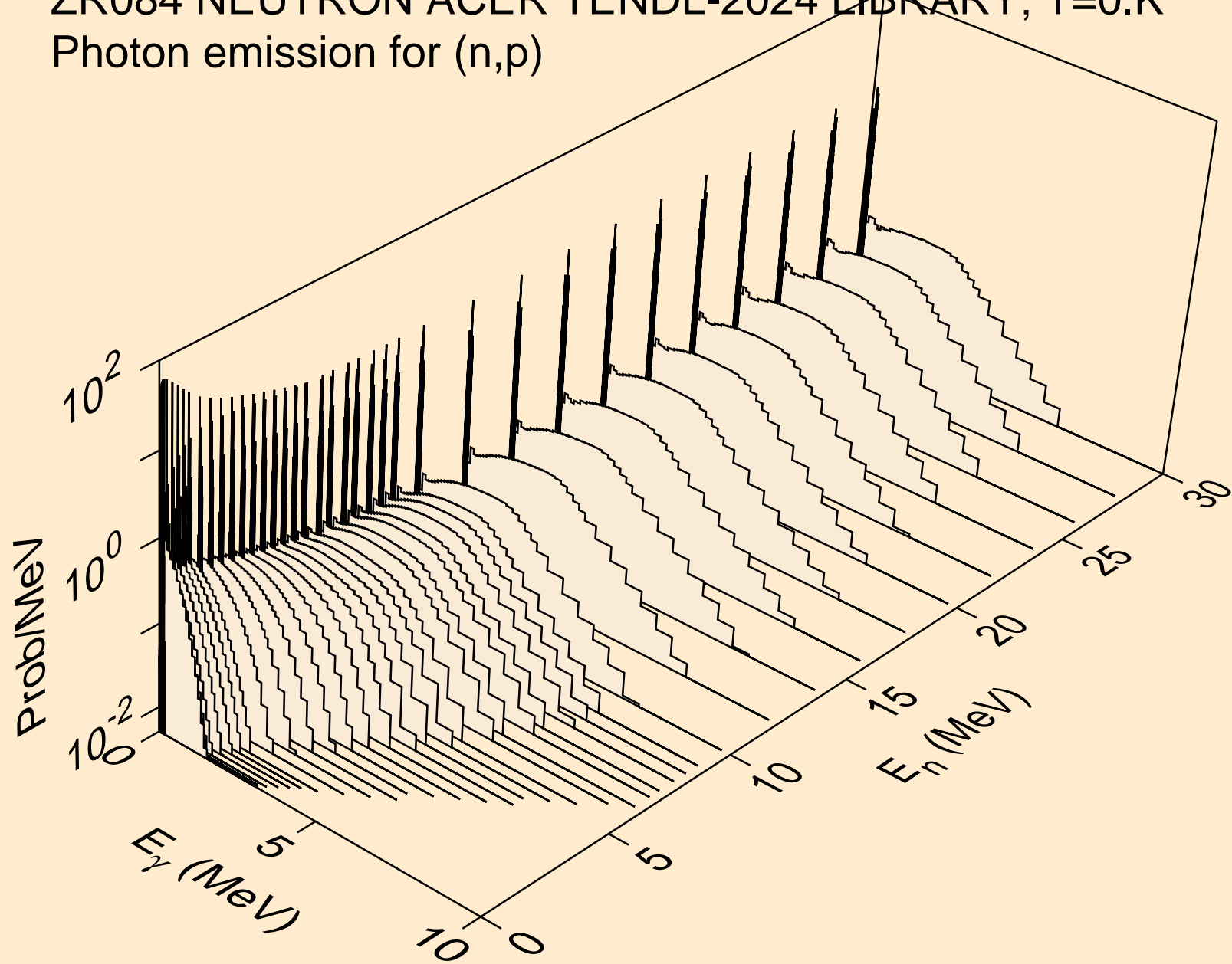
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



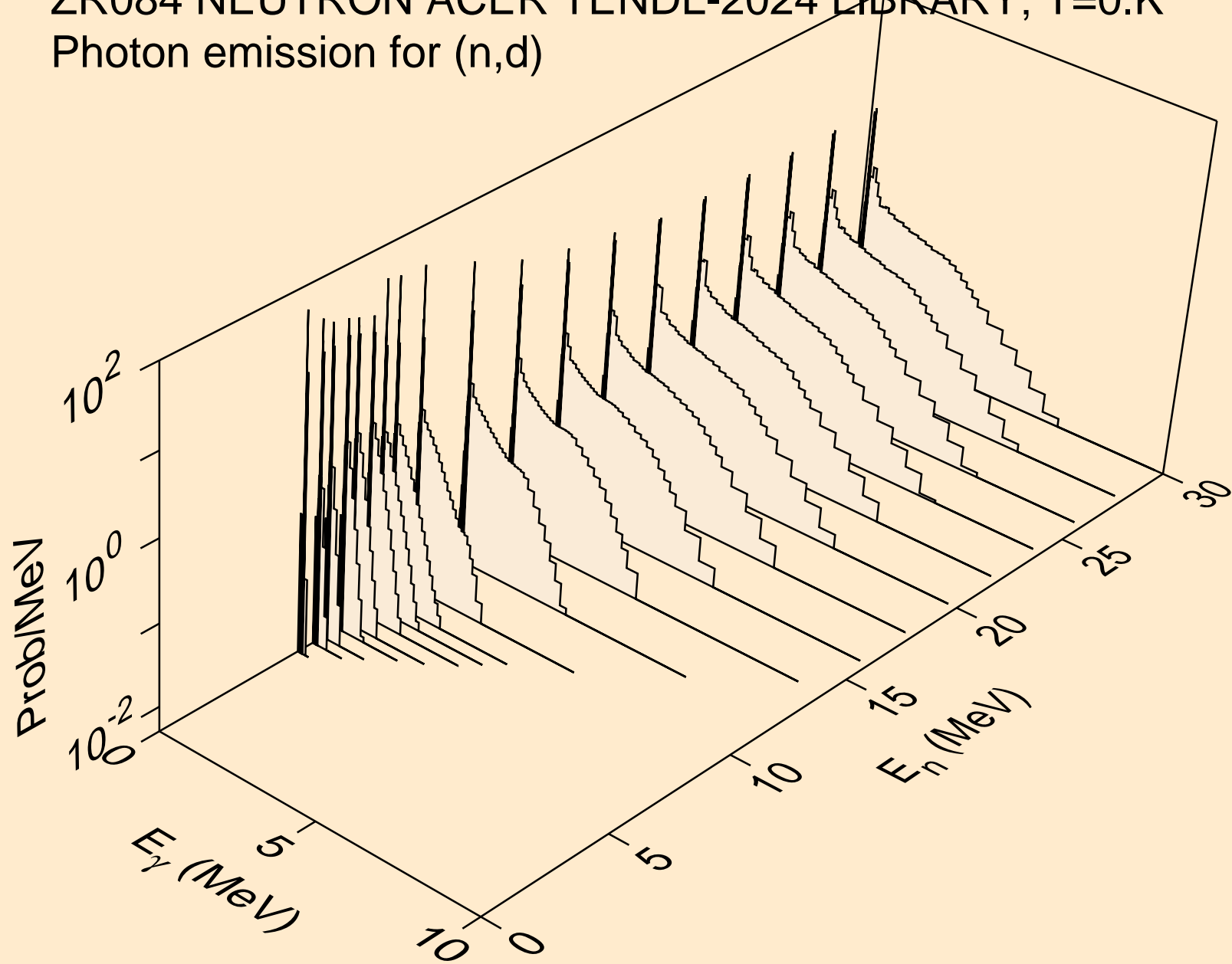
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Photon emission for (n,gma)



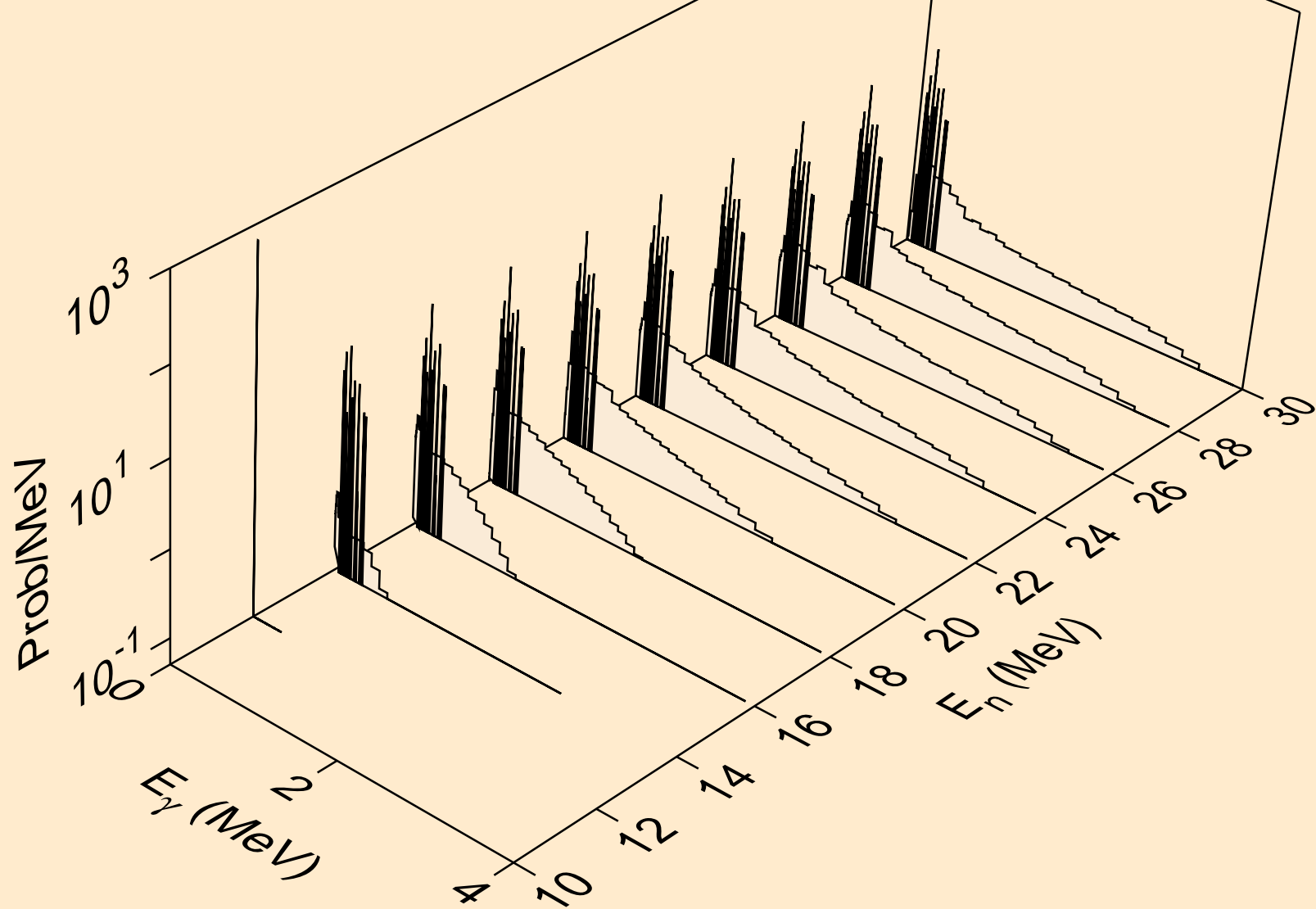
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)

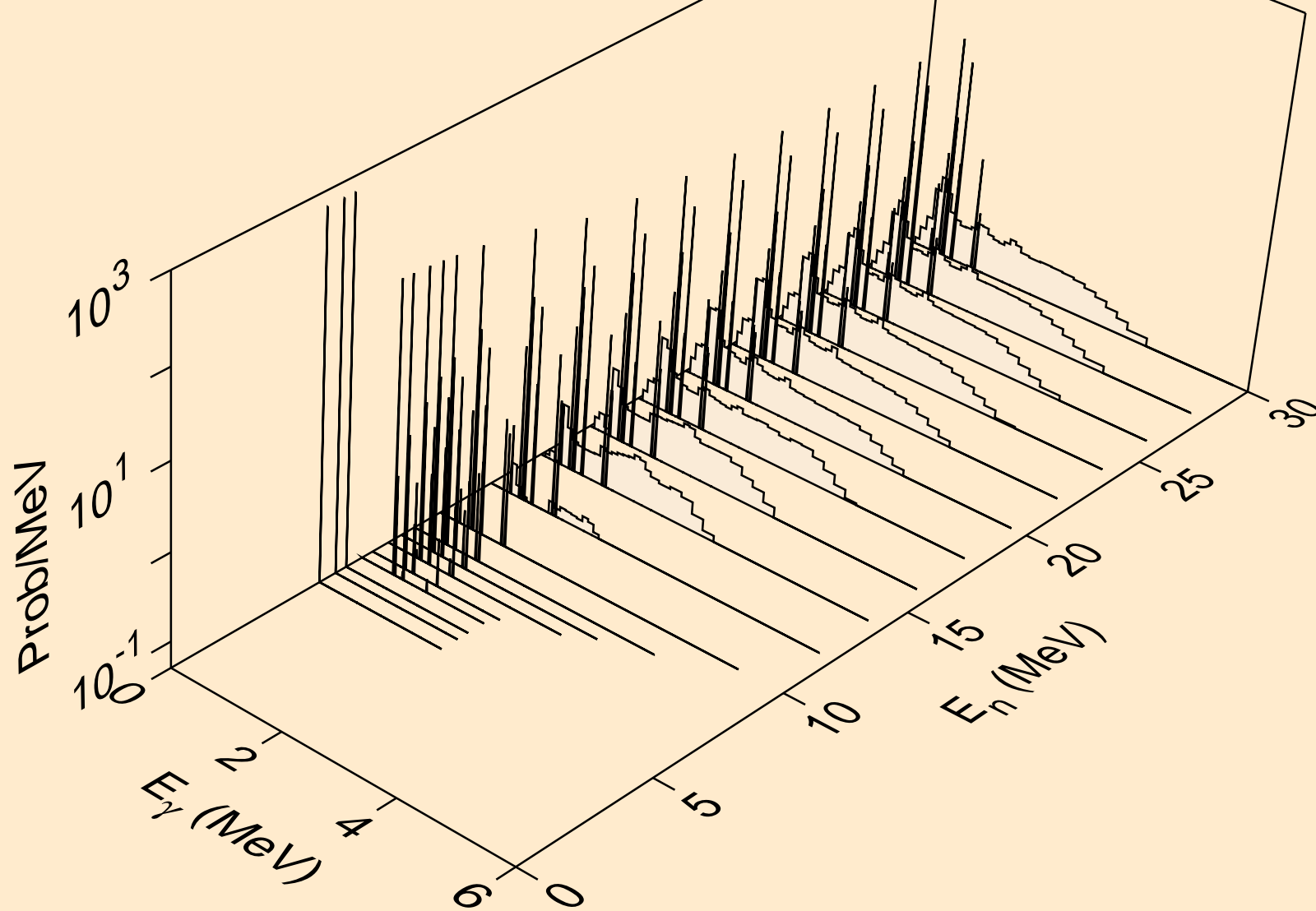


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t)

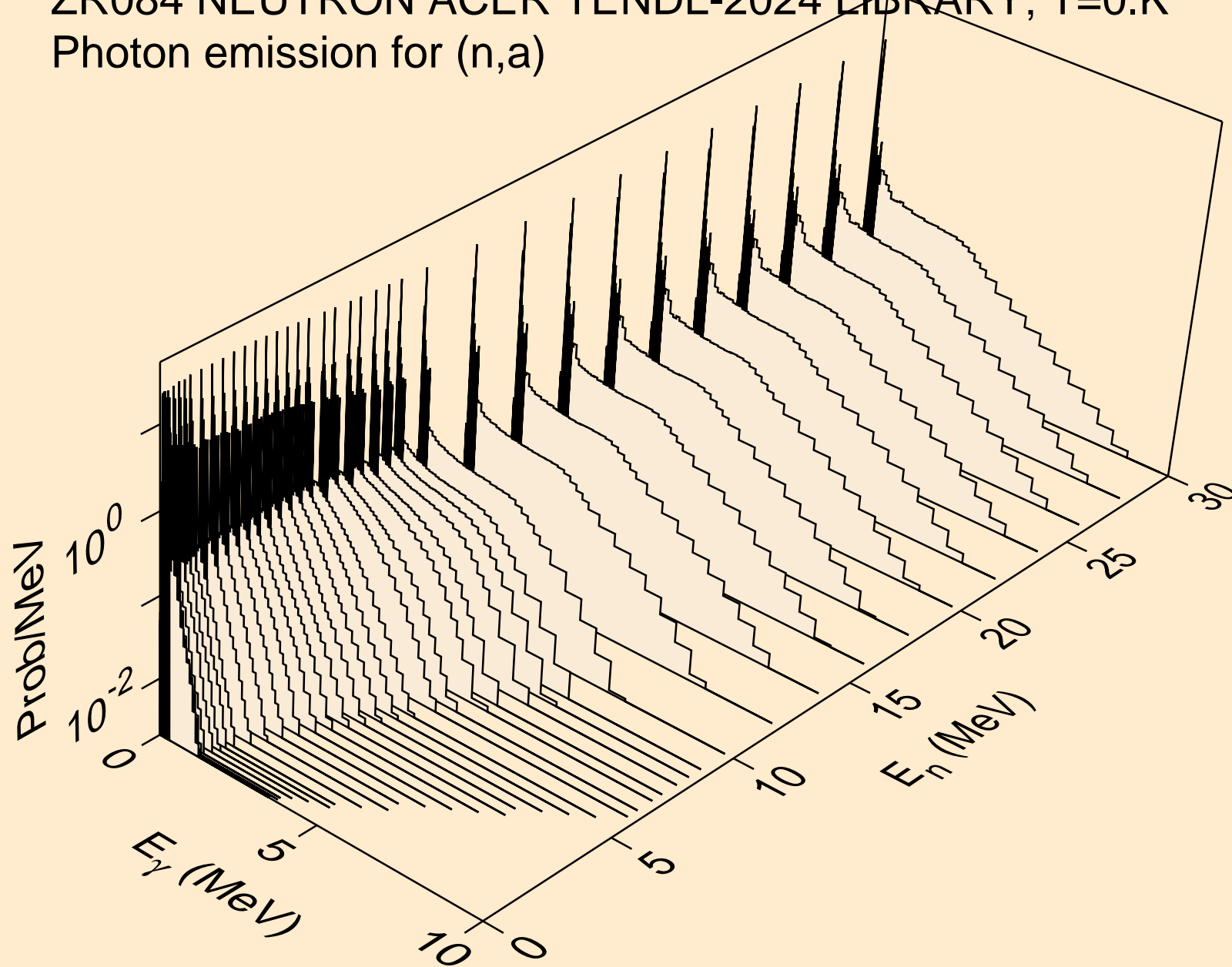




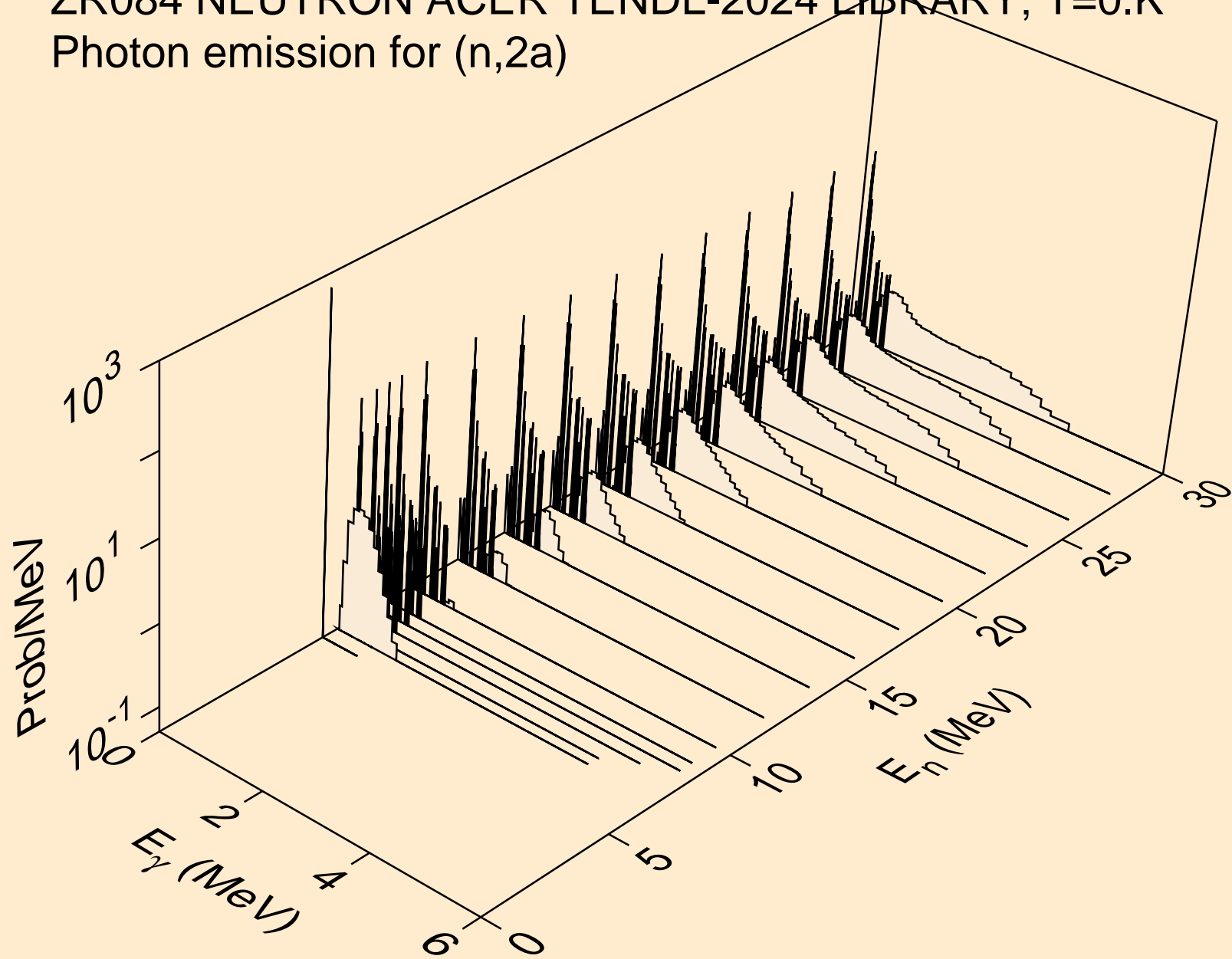
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,he3)



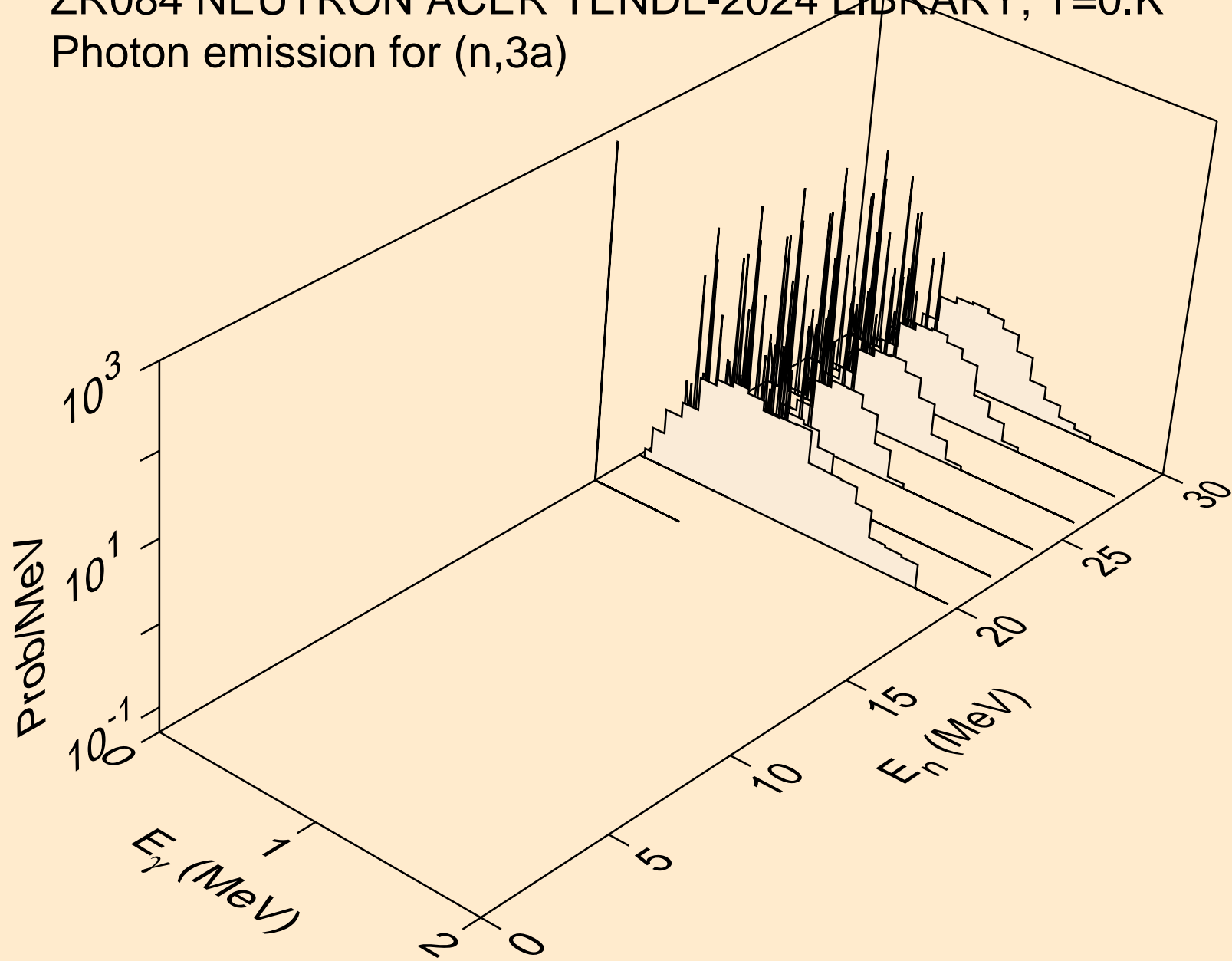
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,a)



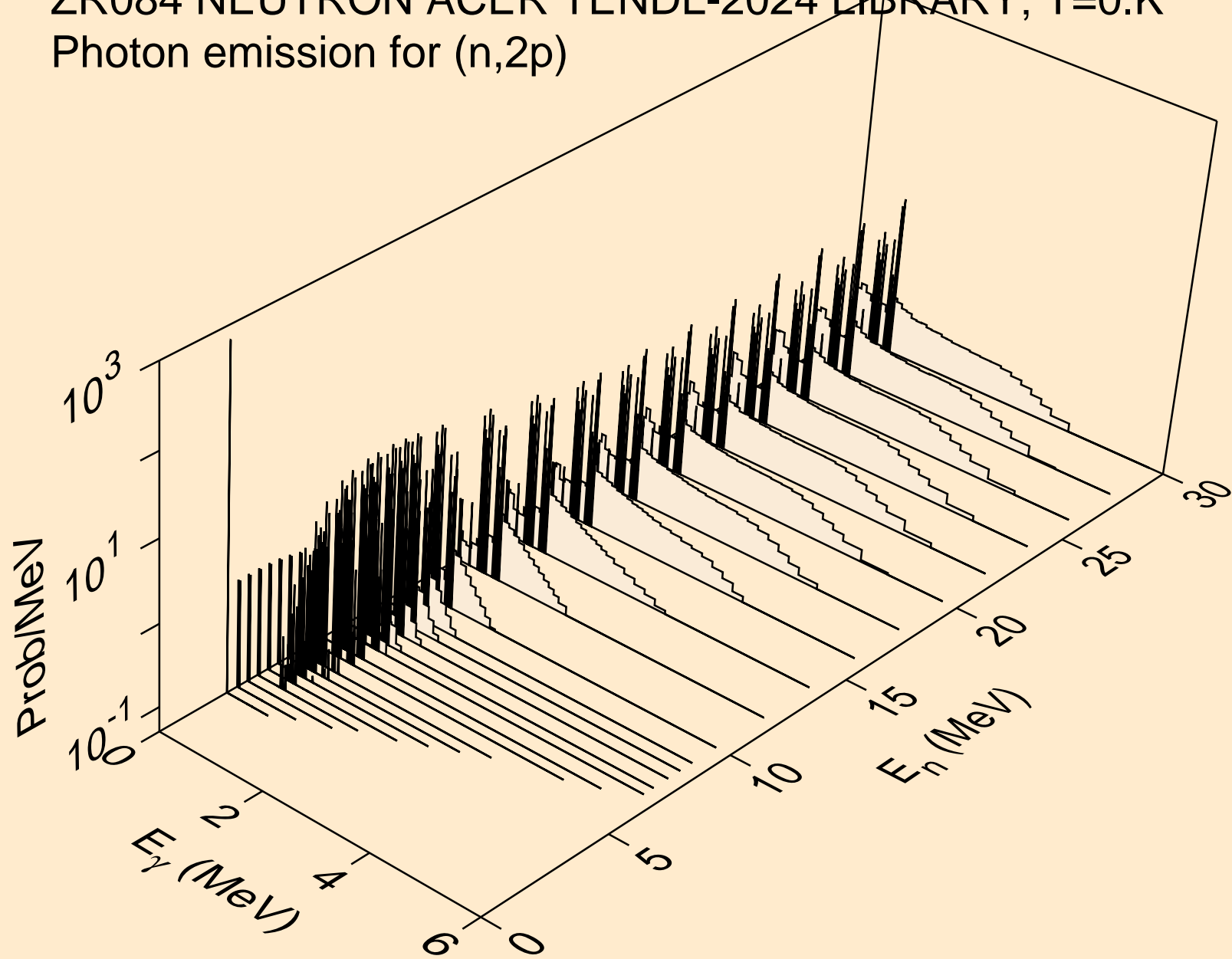
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2a)



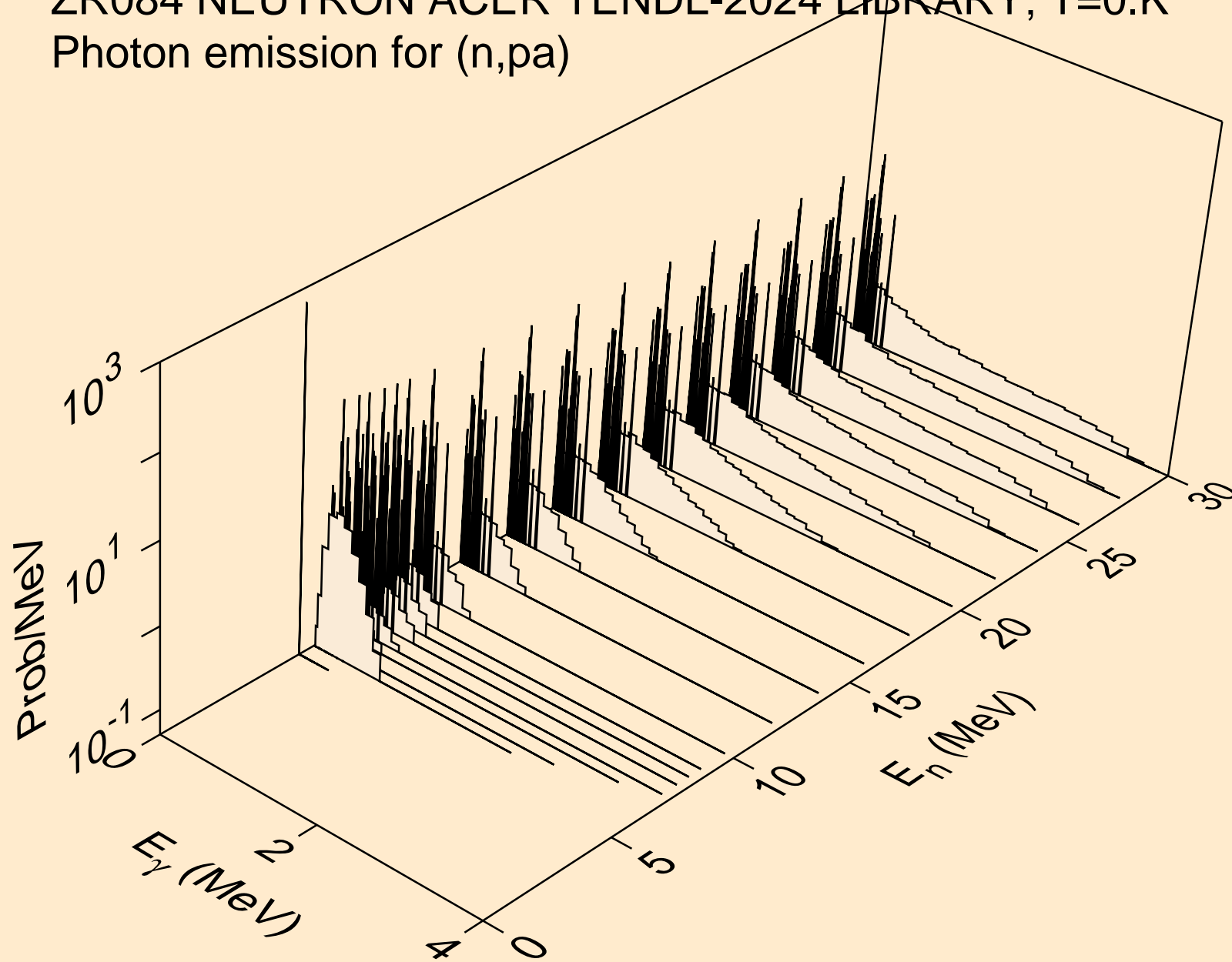
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3a)



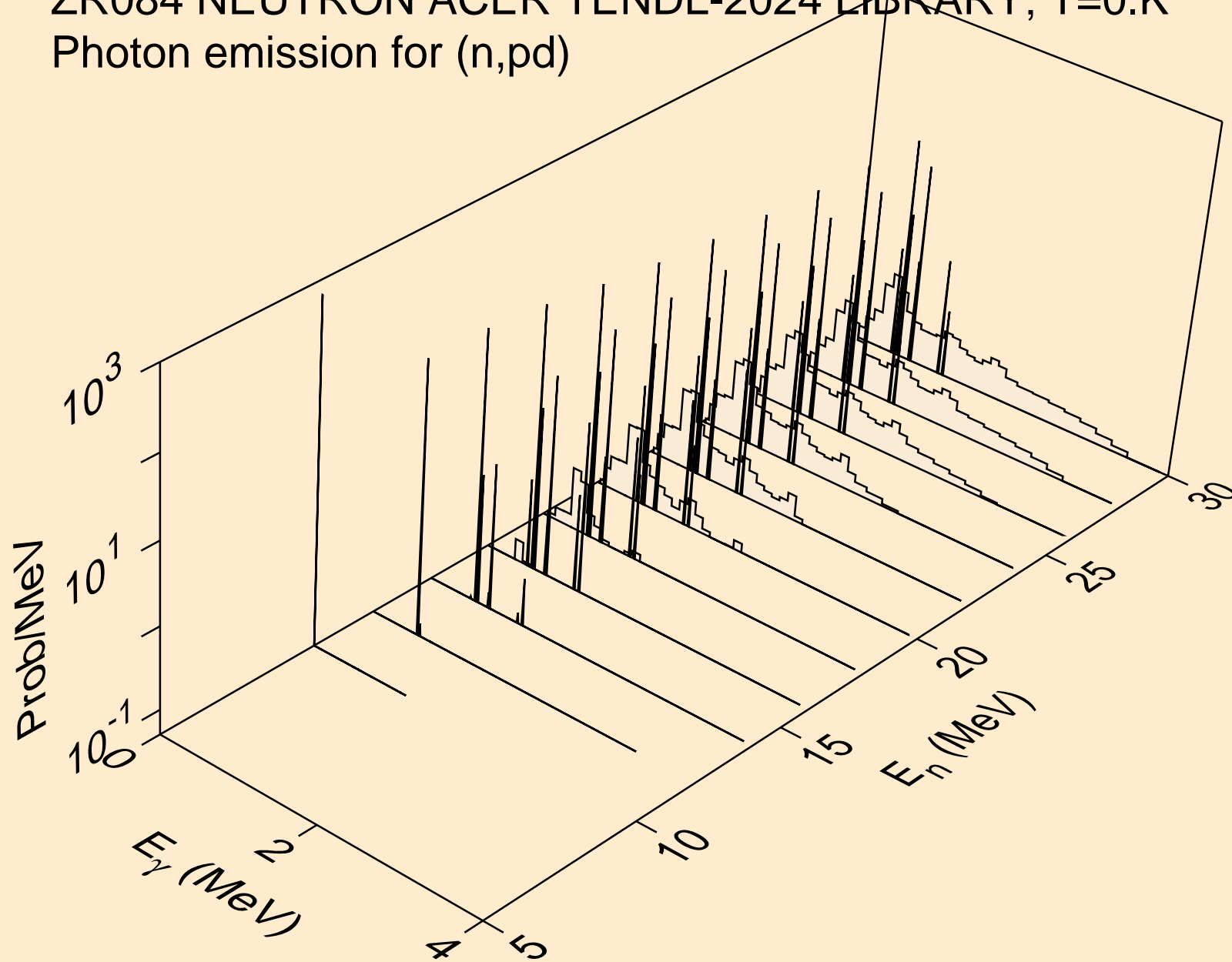
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2p)



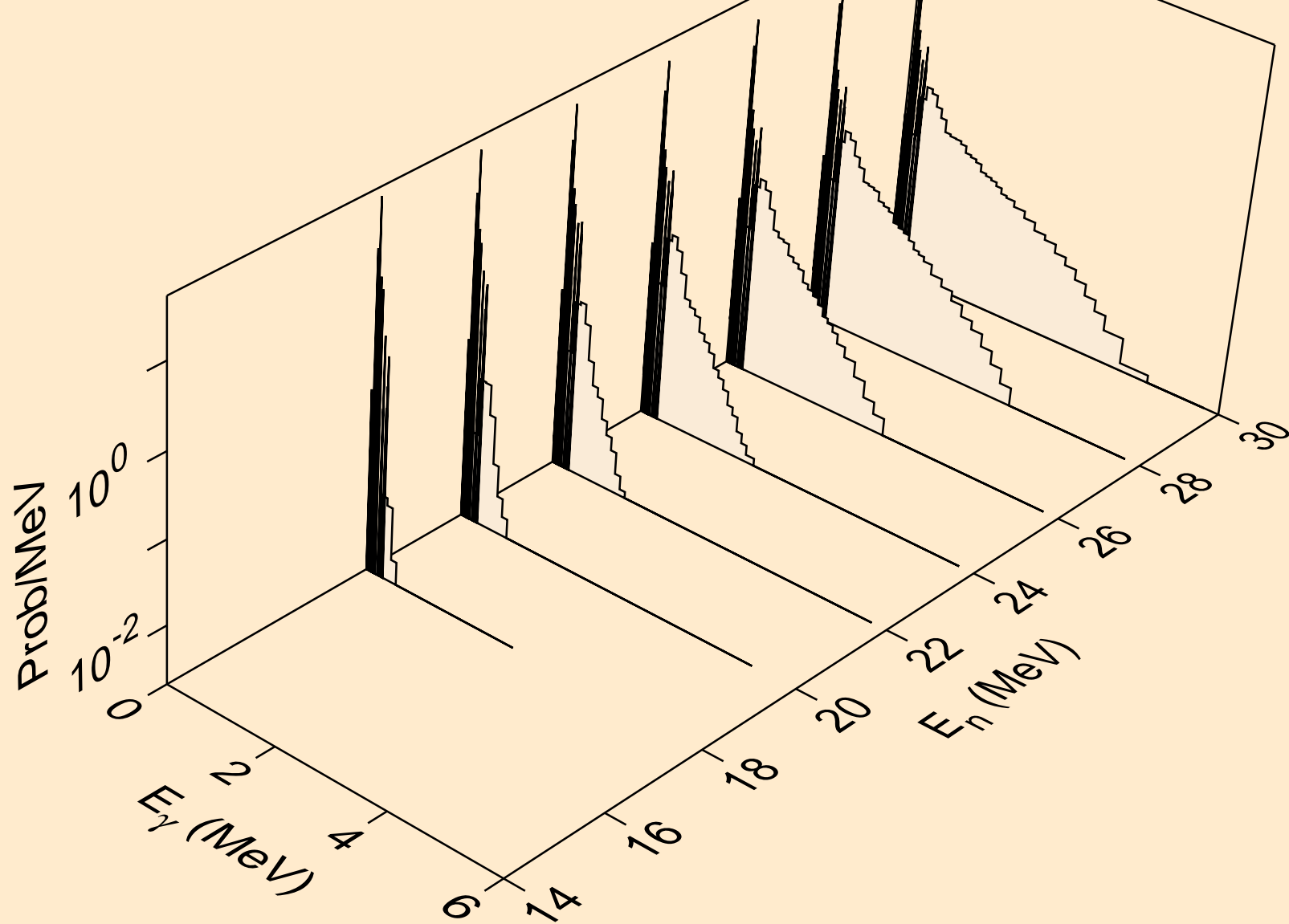
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)

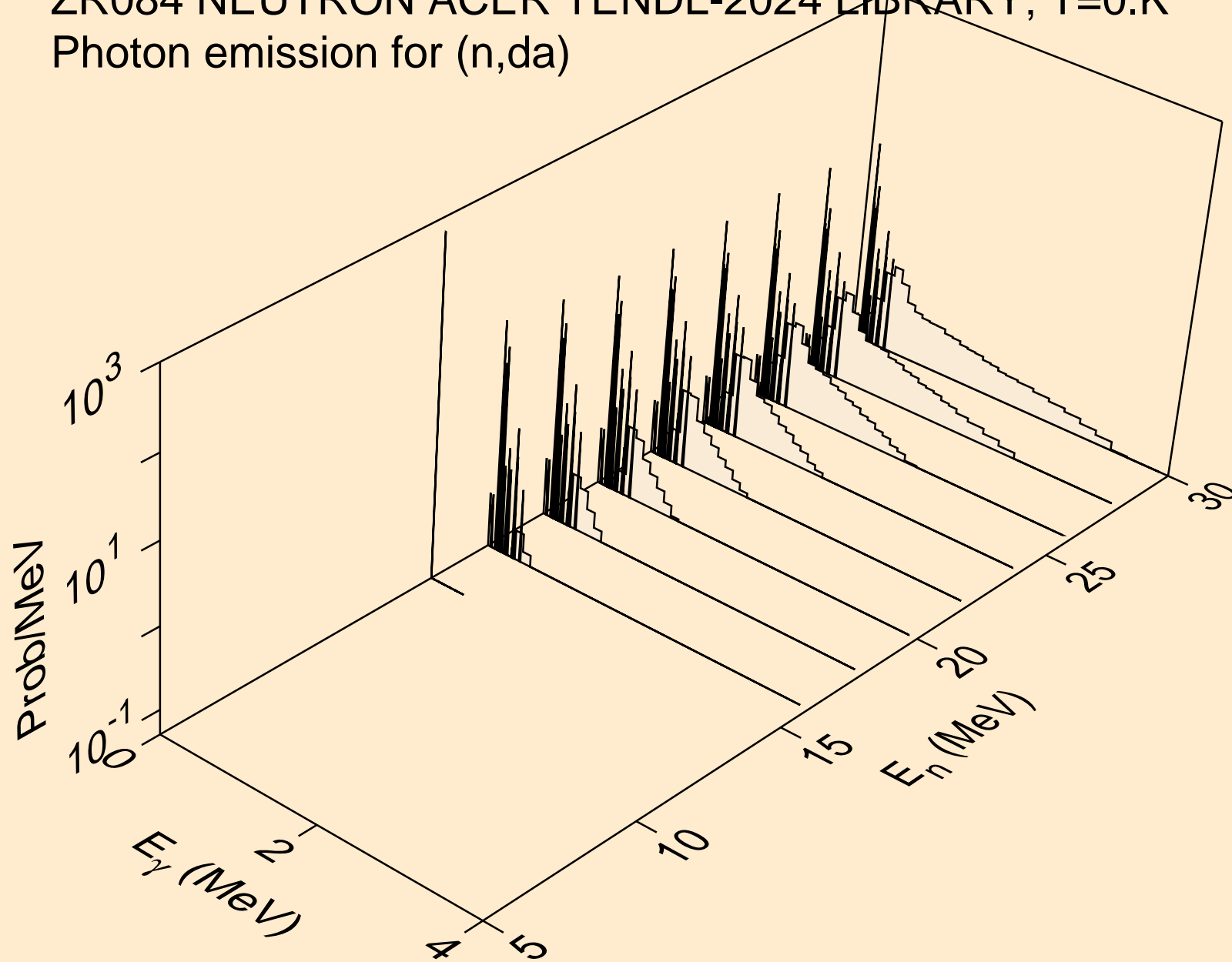


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)

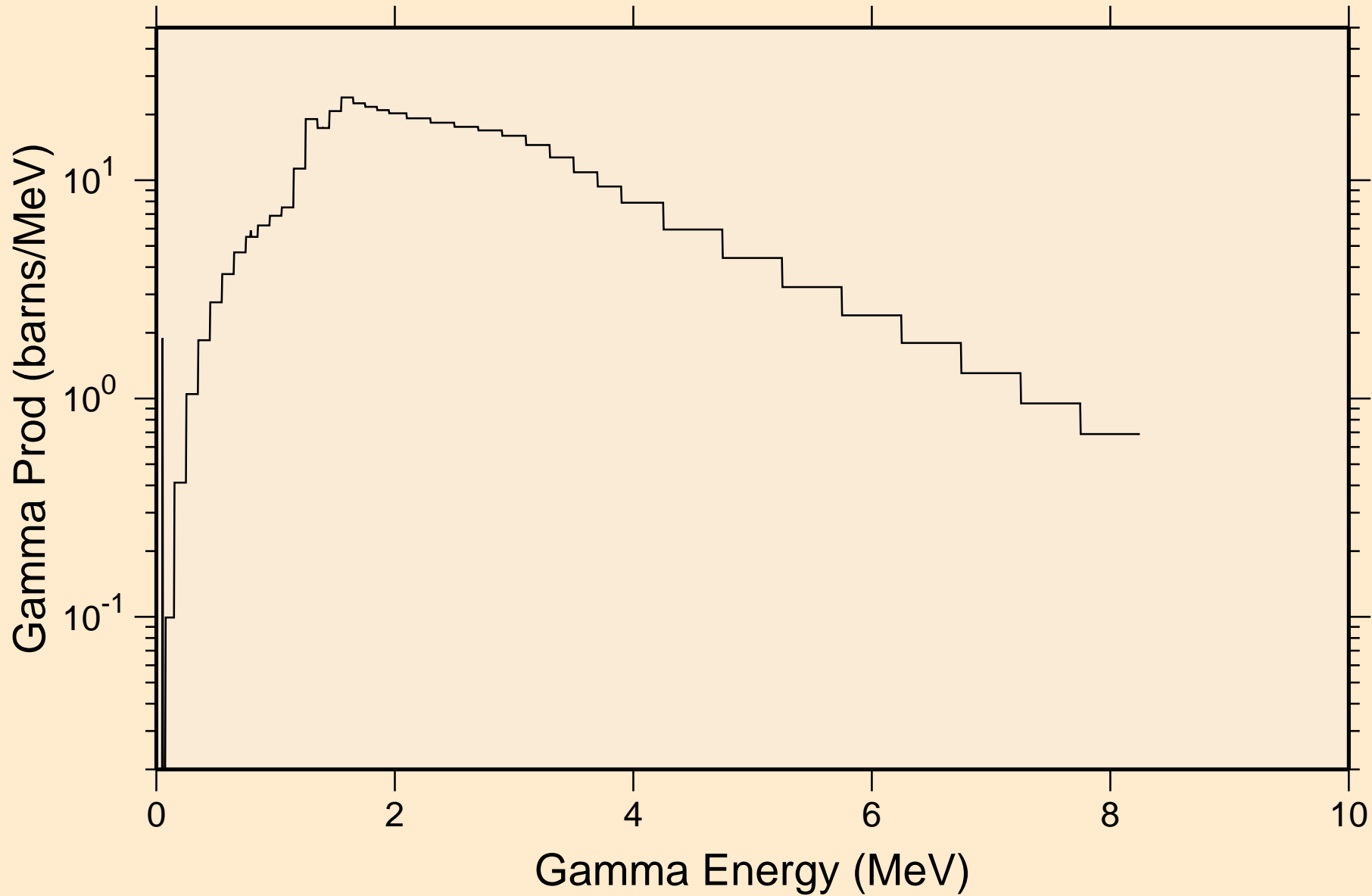




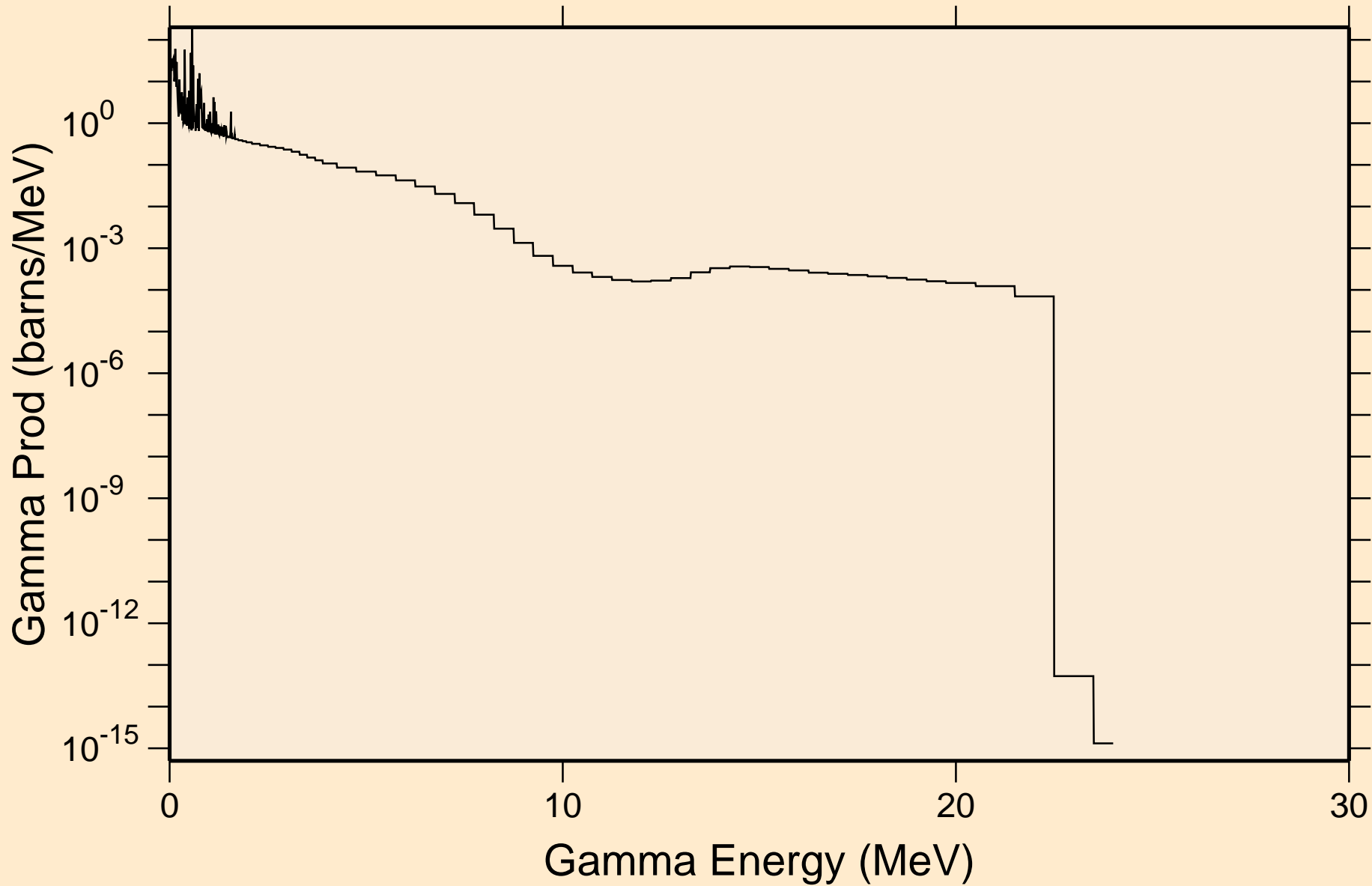
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

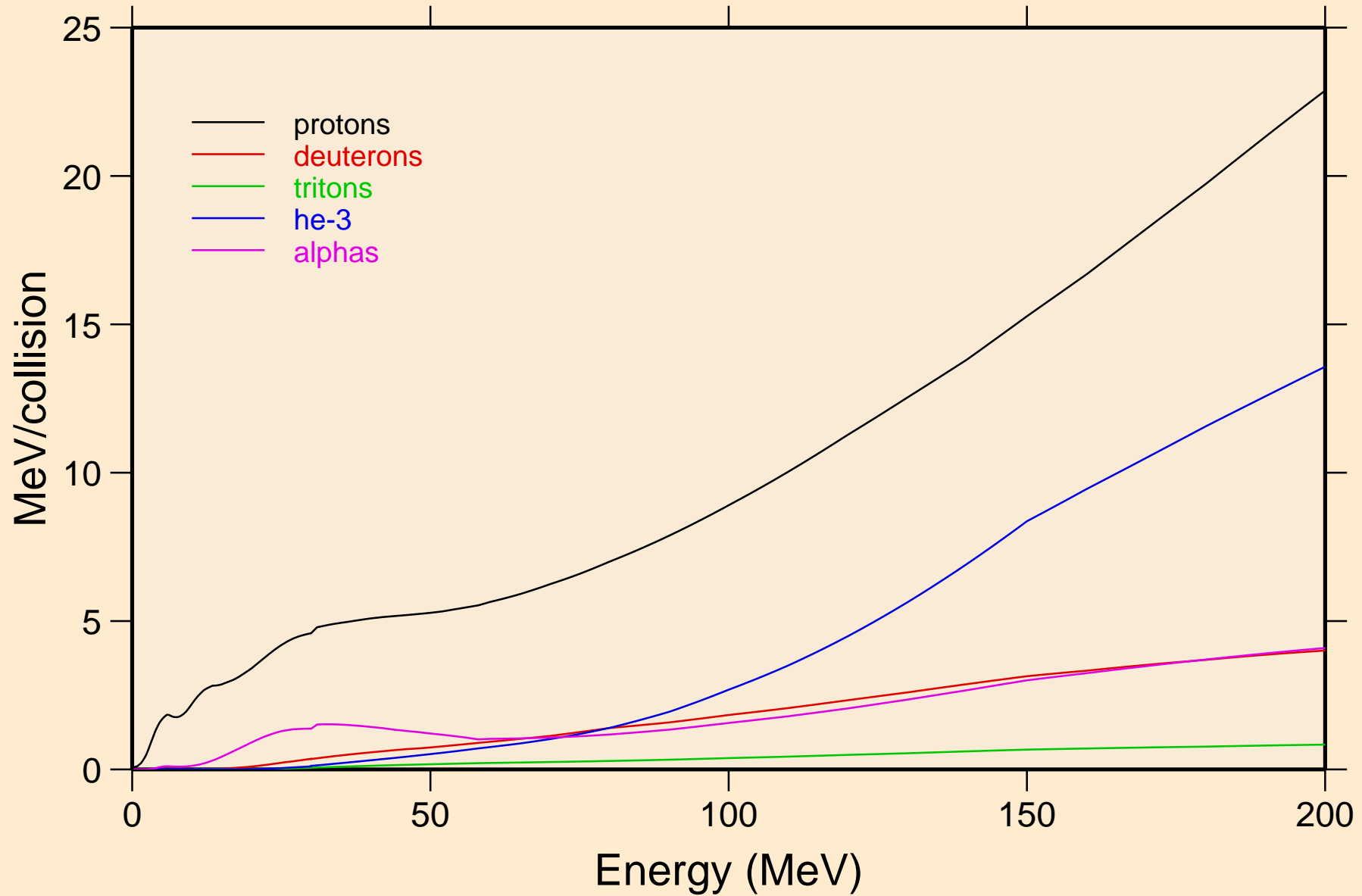


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum



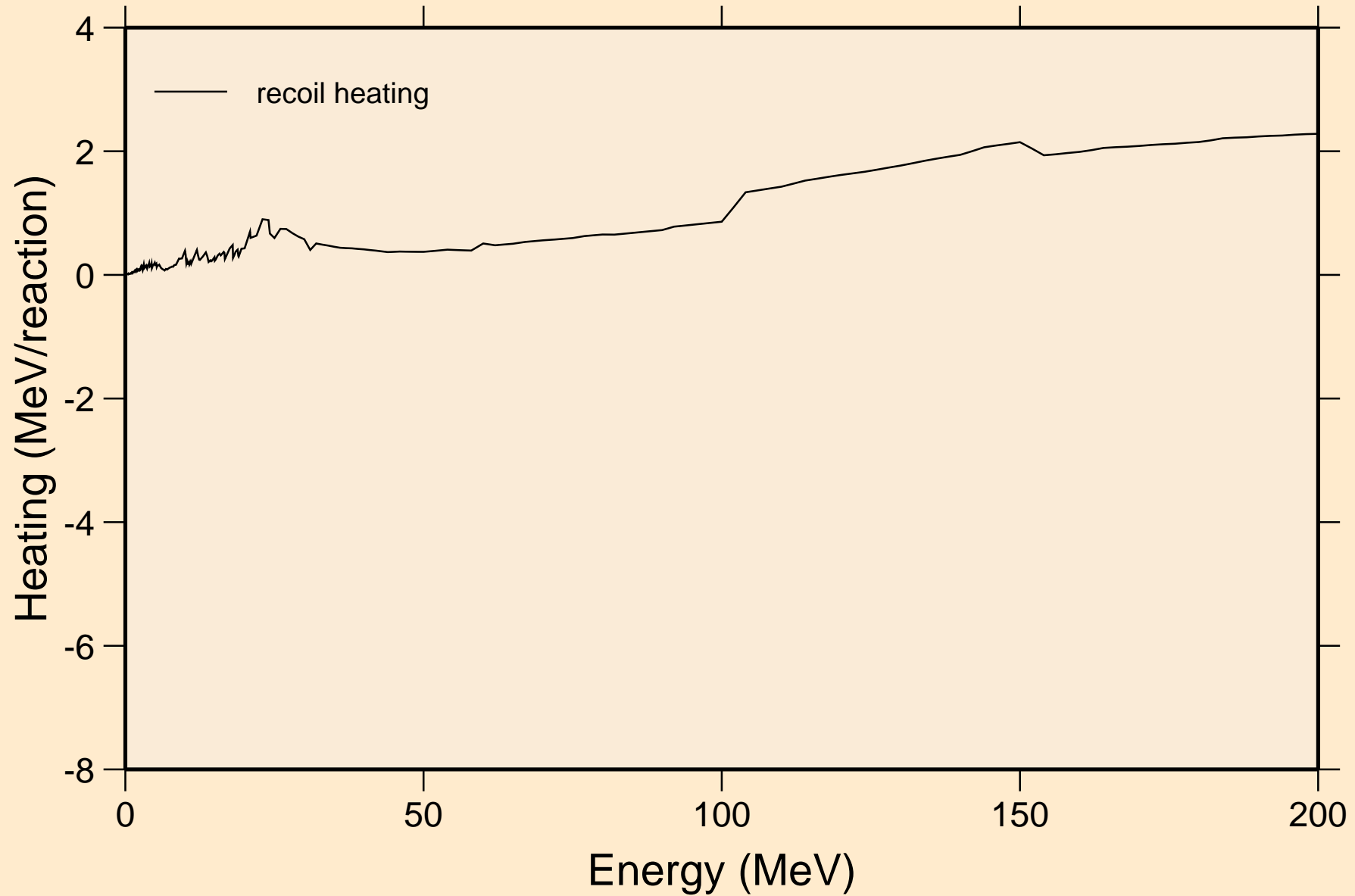
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## Particle heating contributions



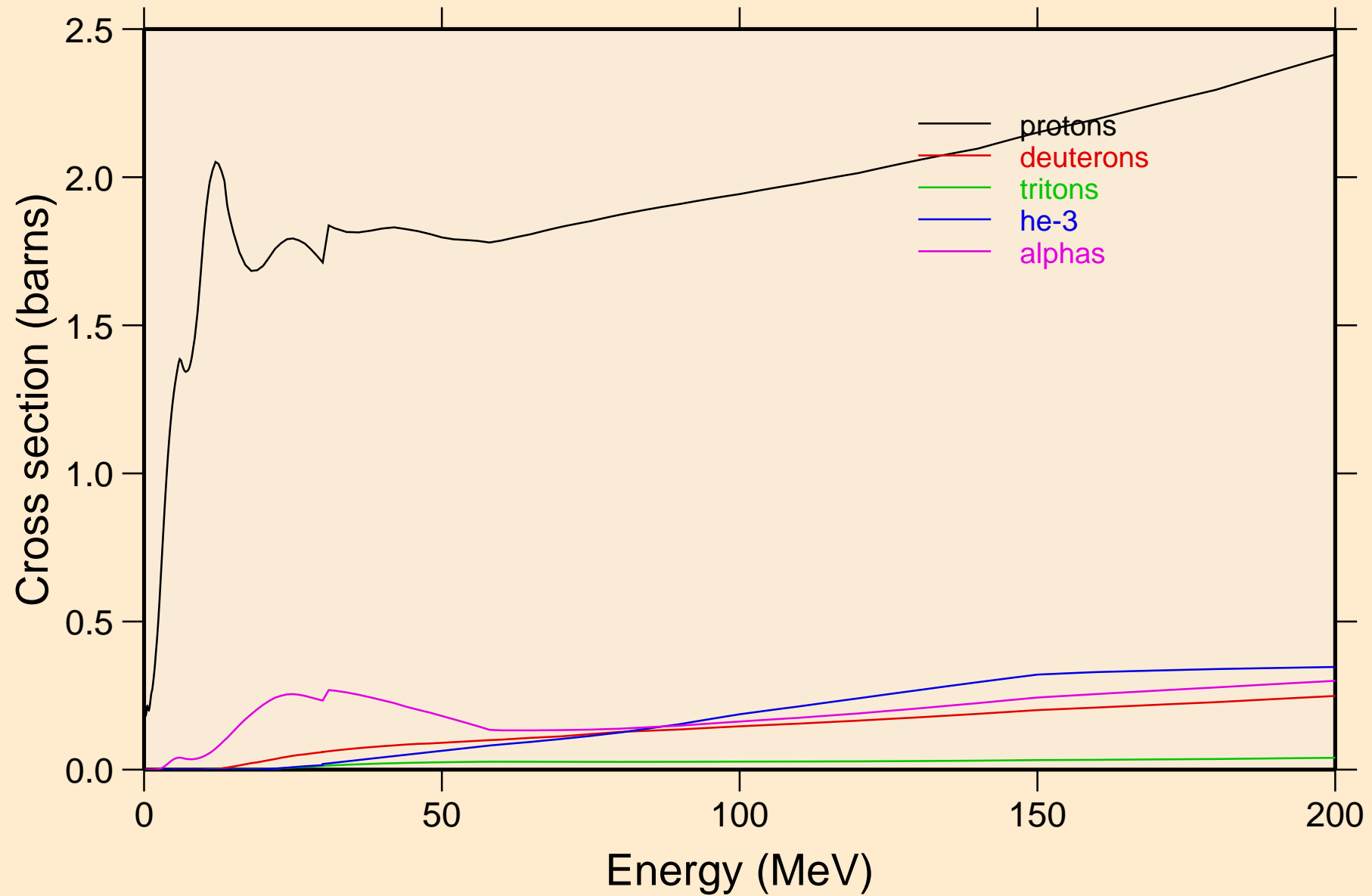
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## Recoil Heating

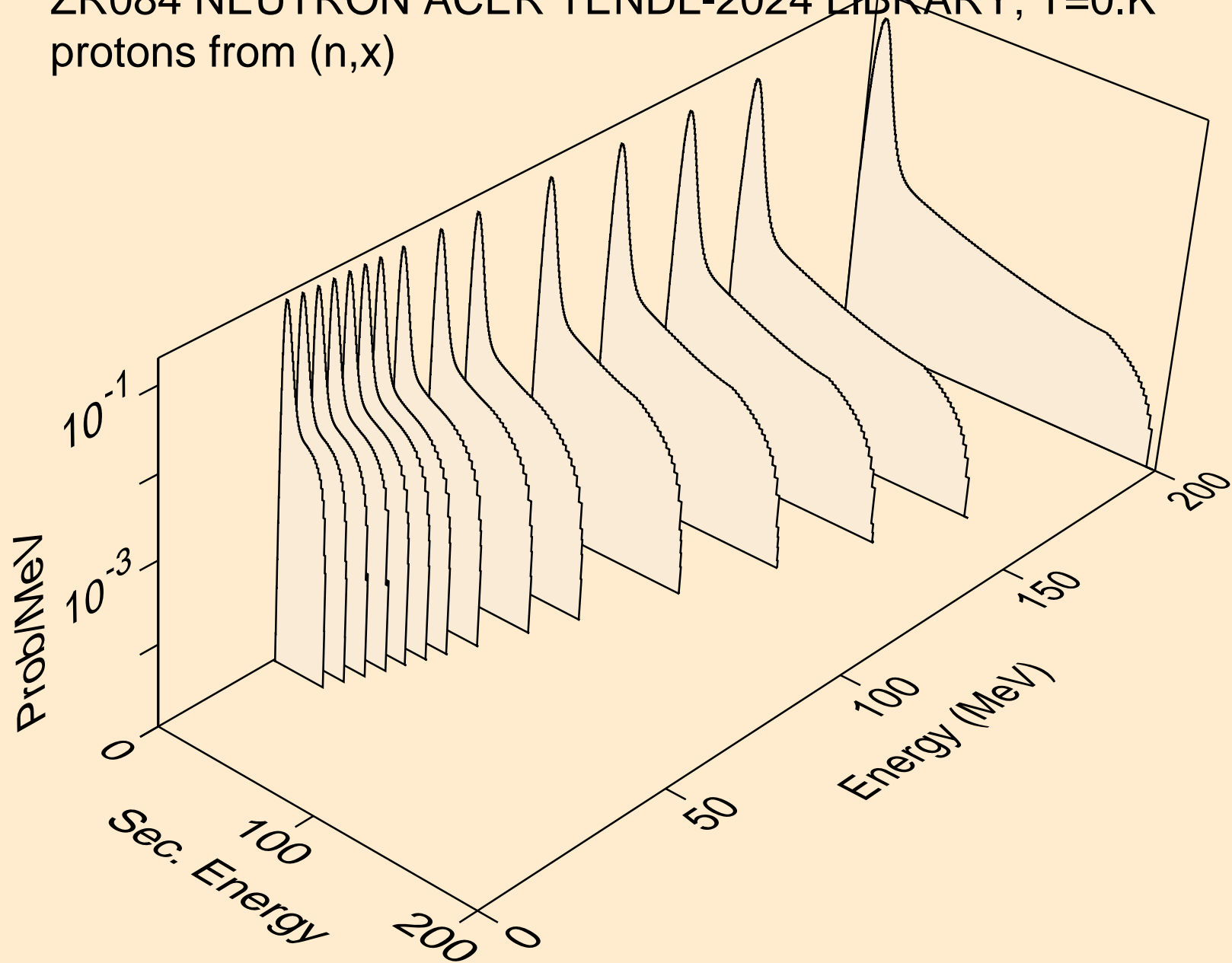


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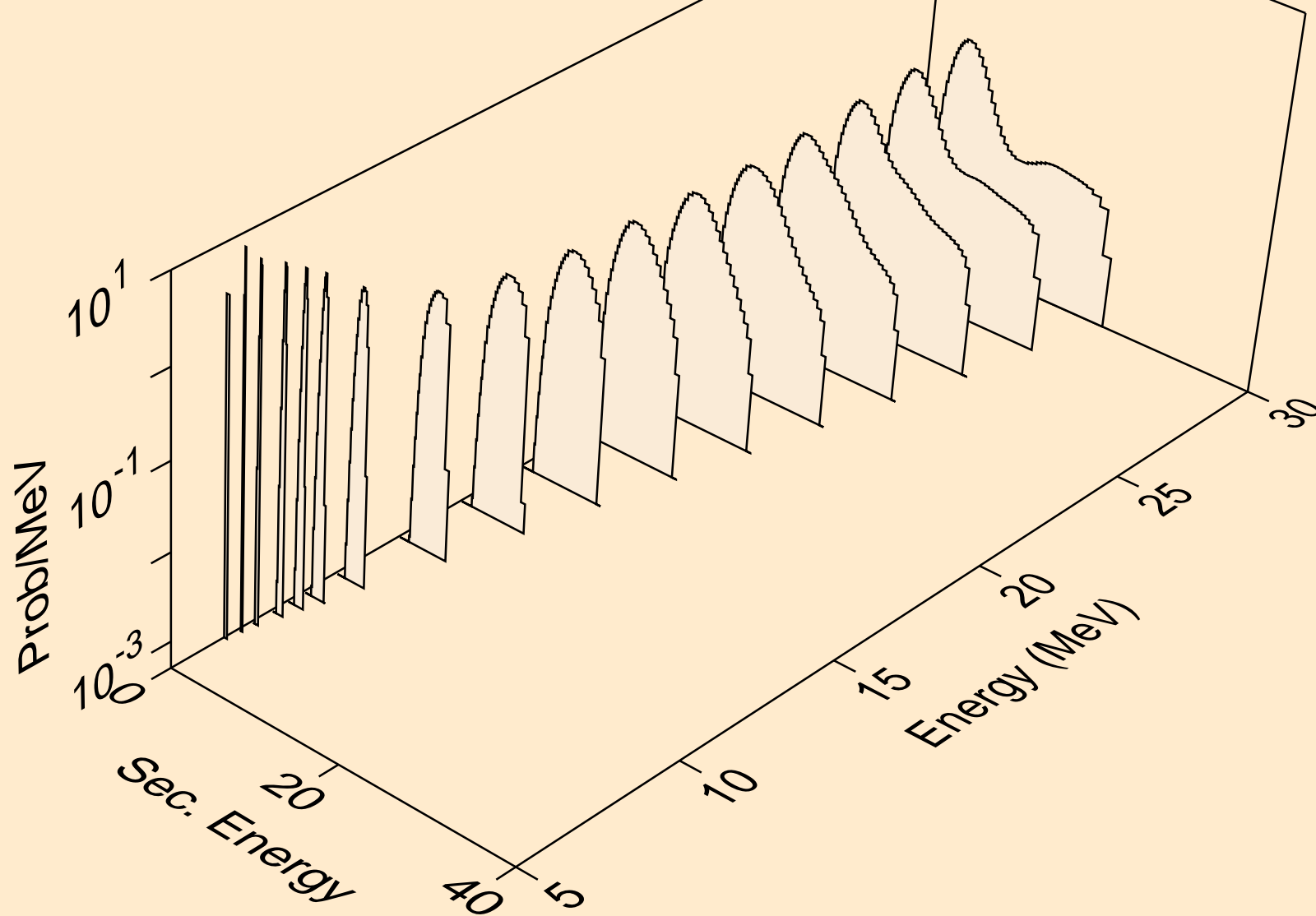
## Particle production cross sections



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)

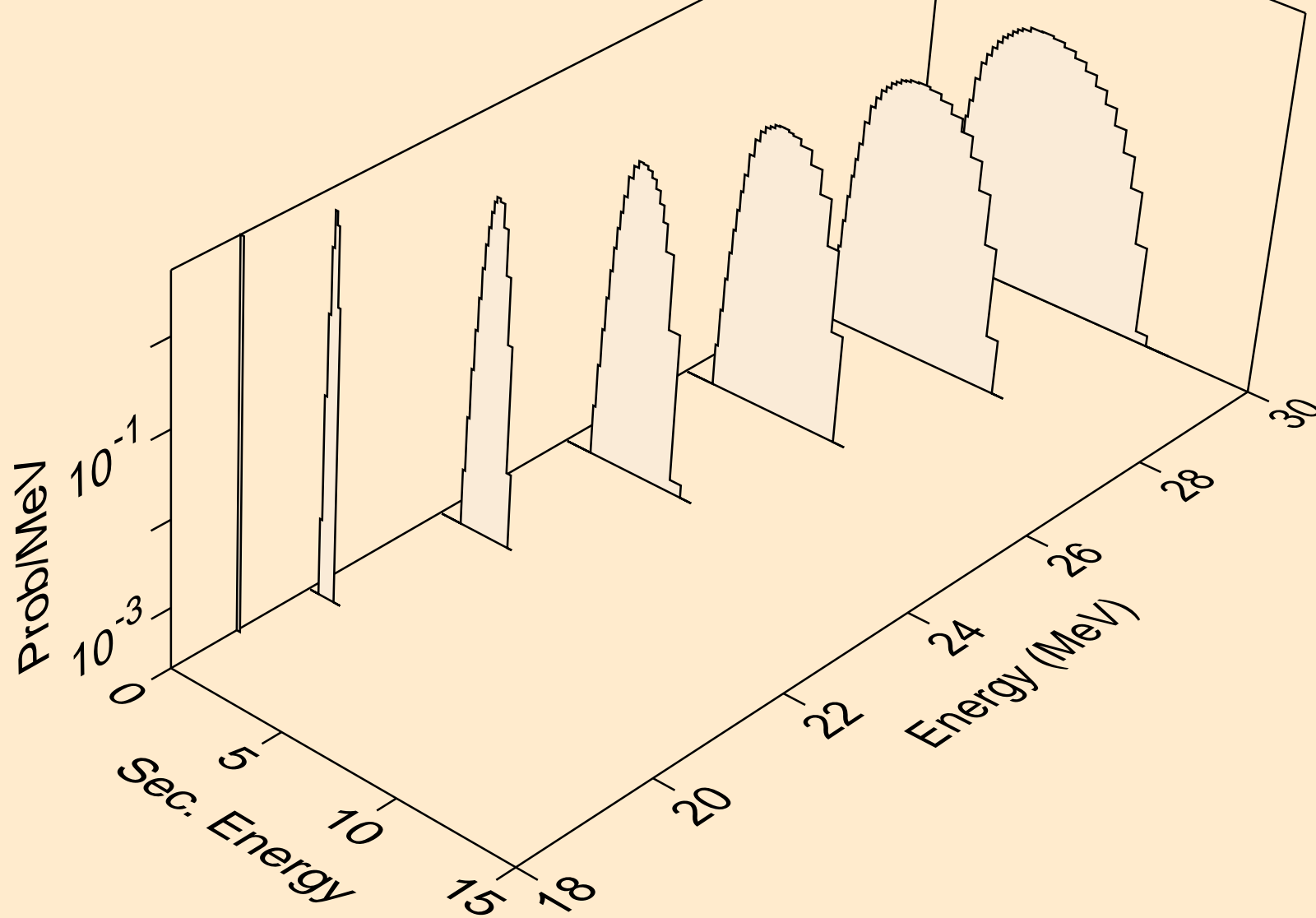


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n\*)p

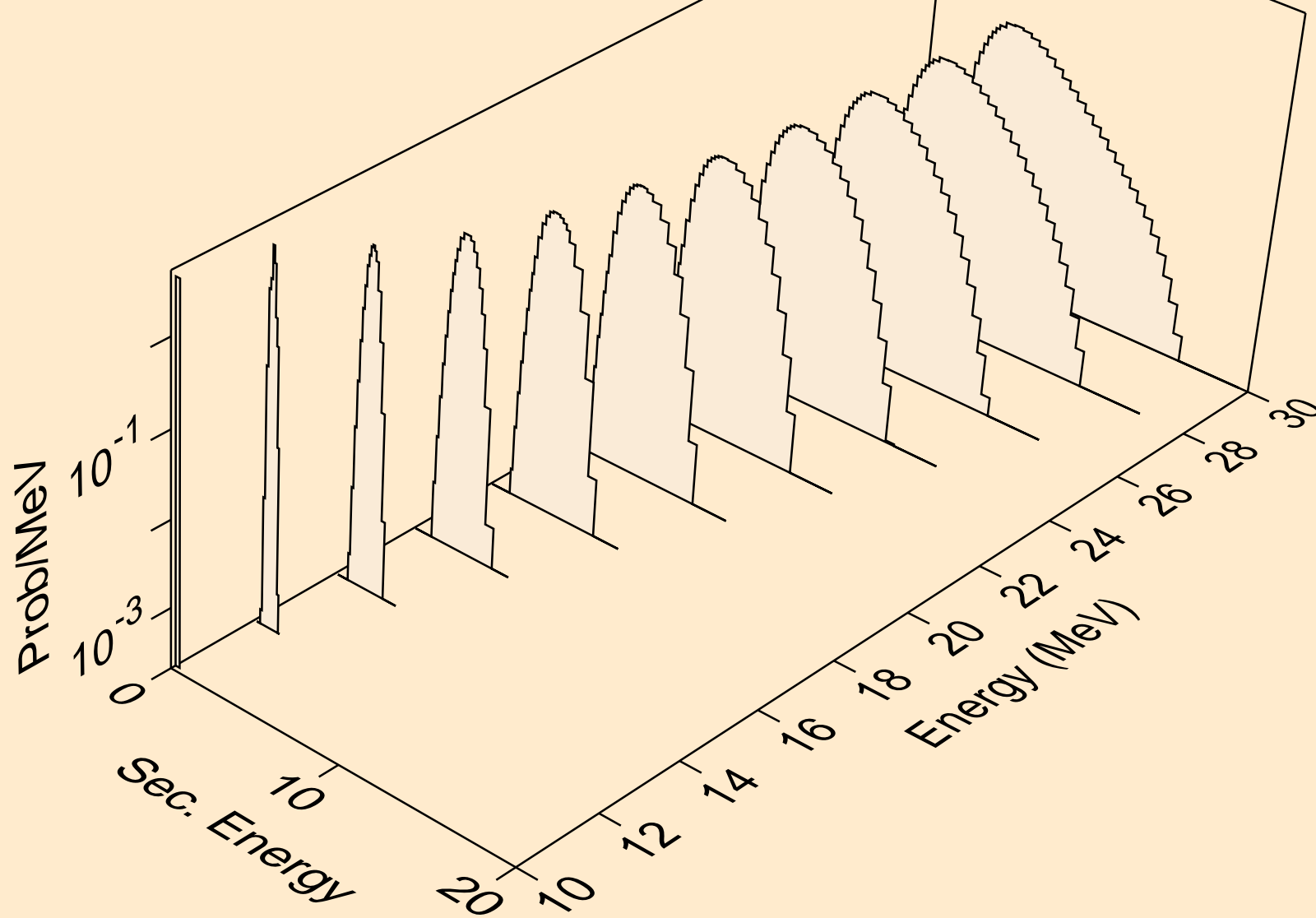




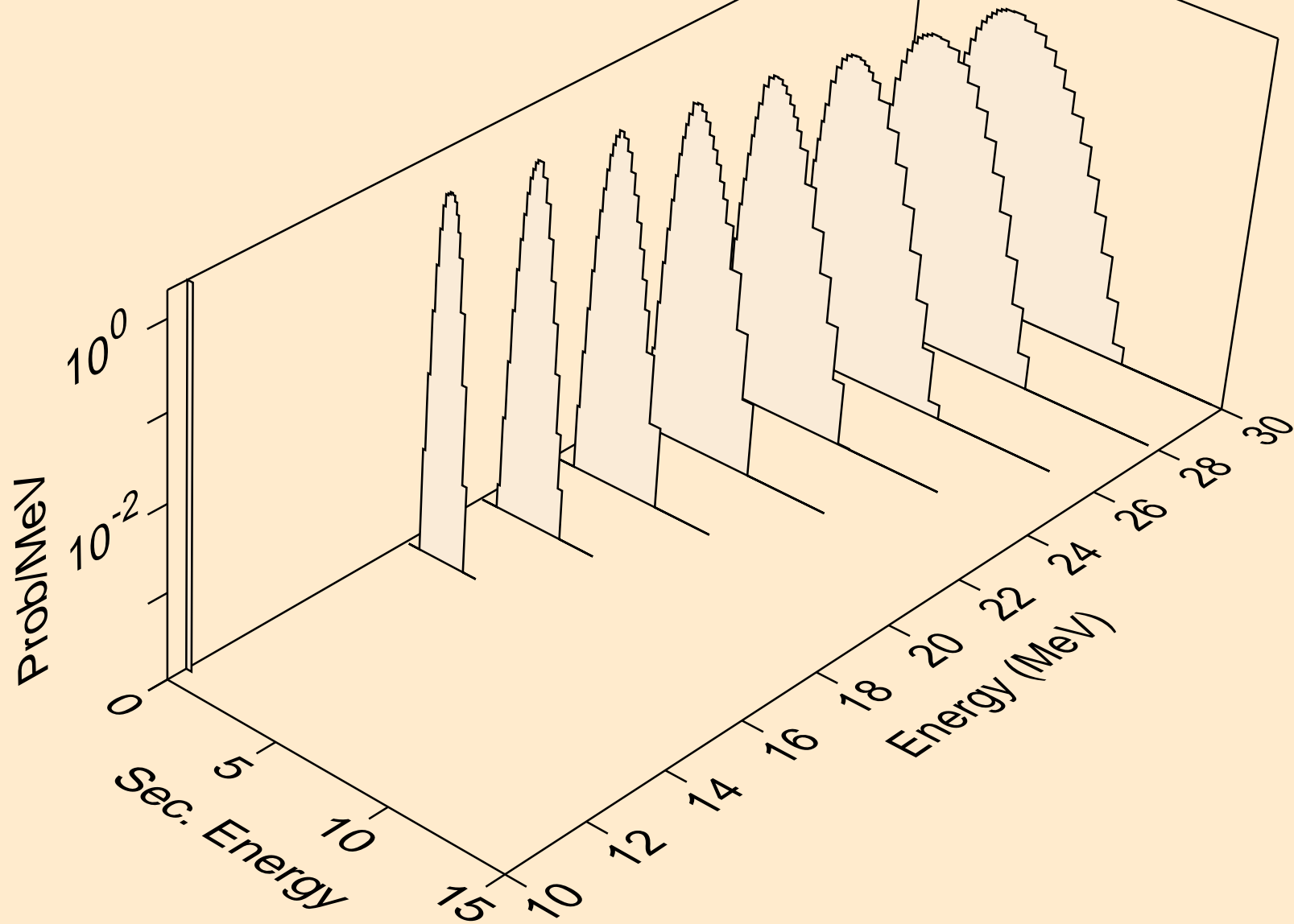
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,2np)



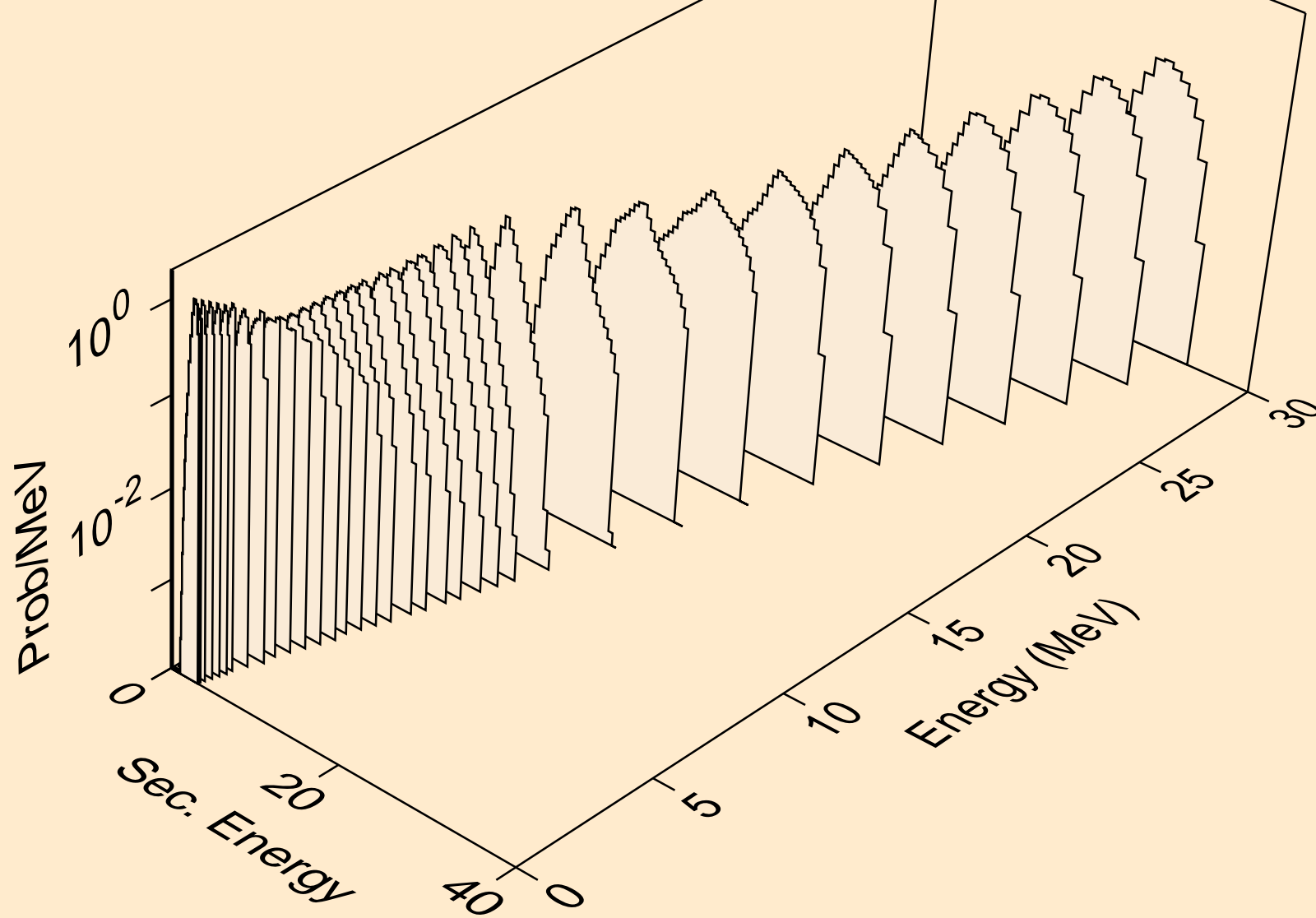
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protons from (n,n2p)



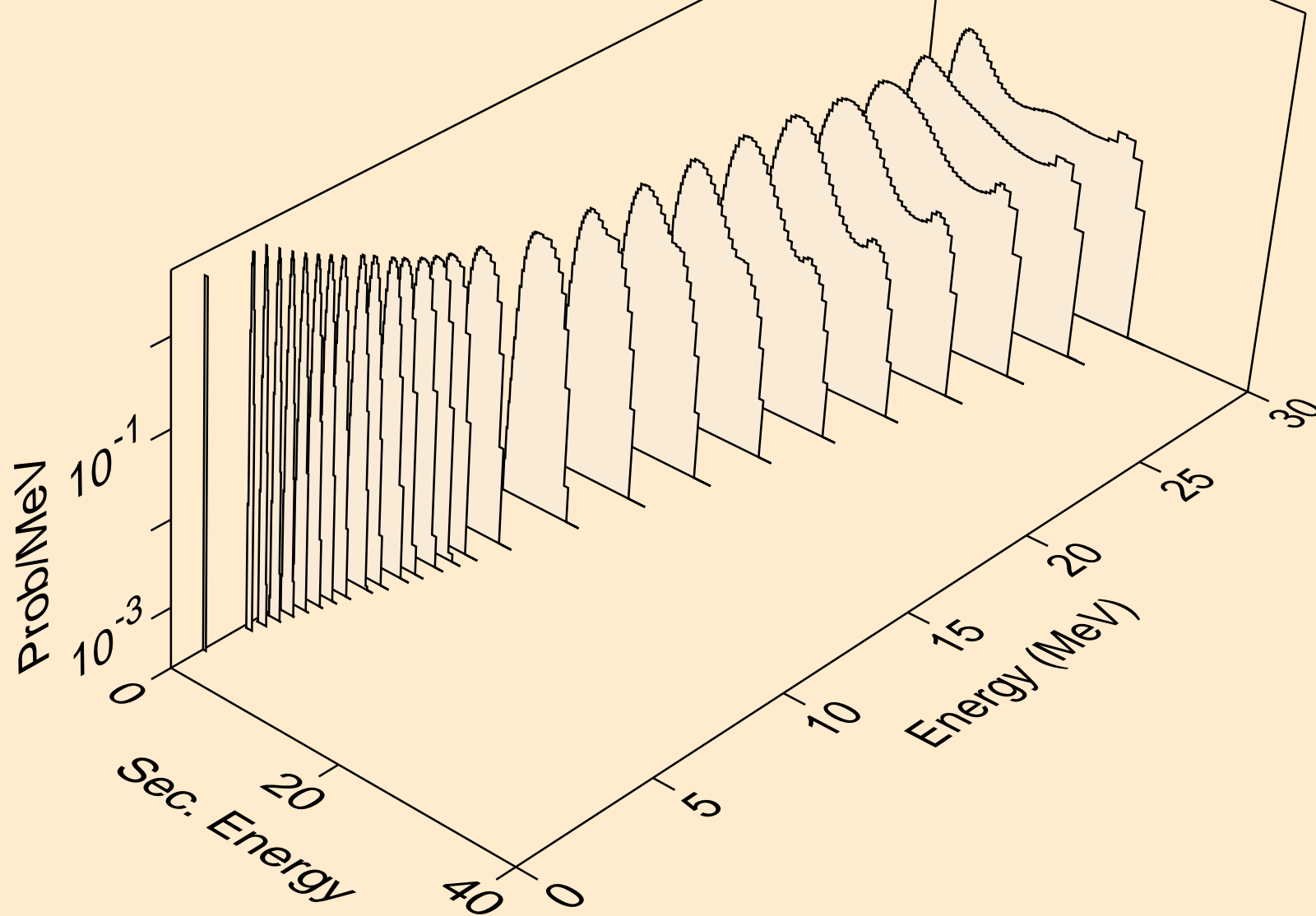
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protons from (n,npa)



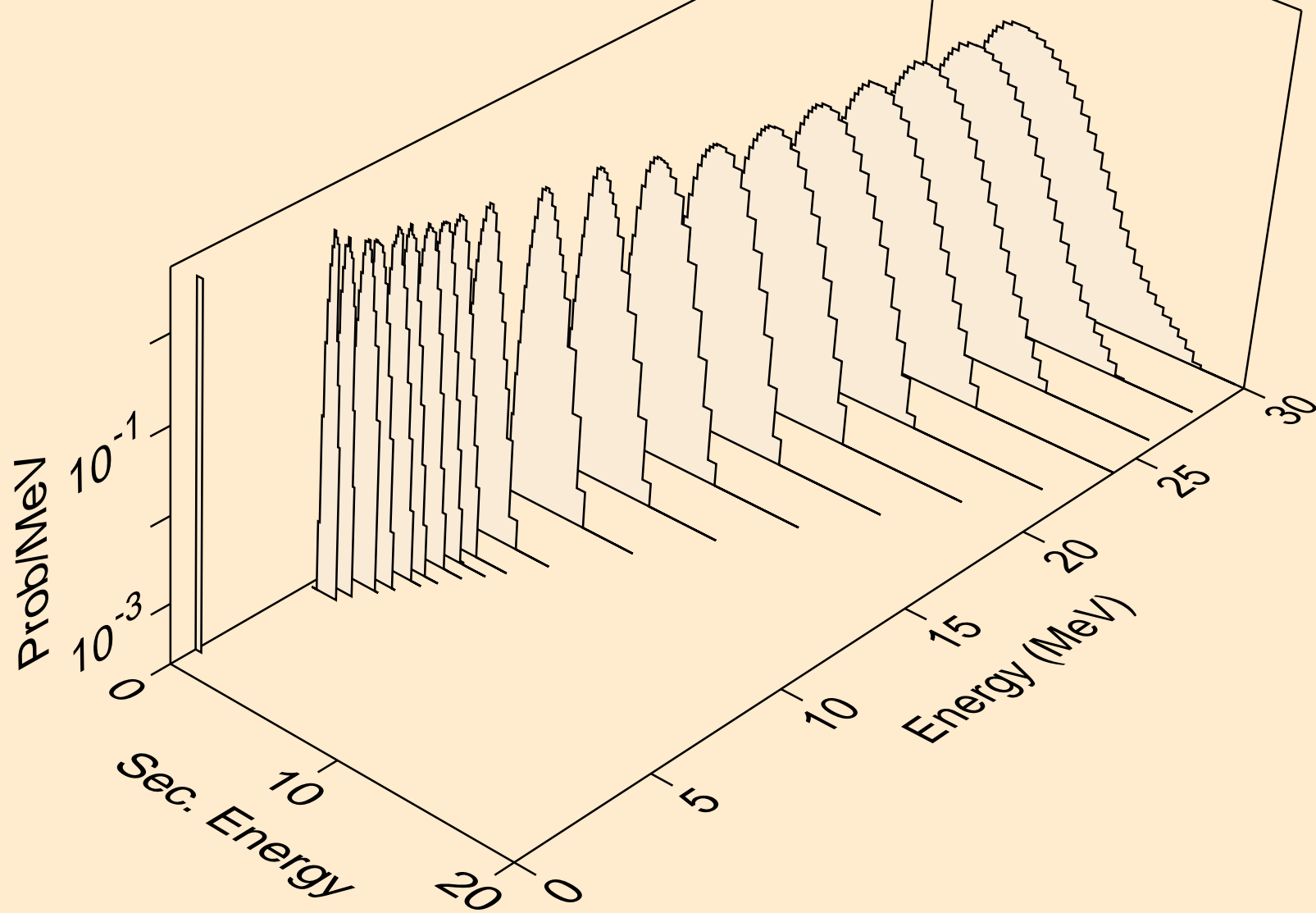
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protons from (n,p)



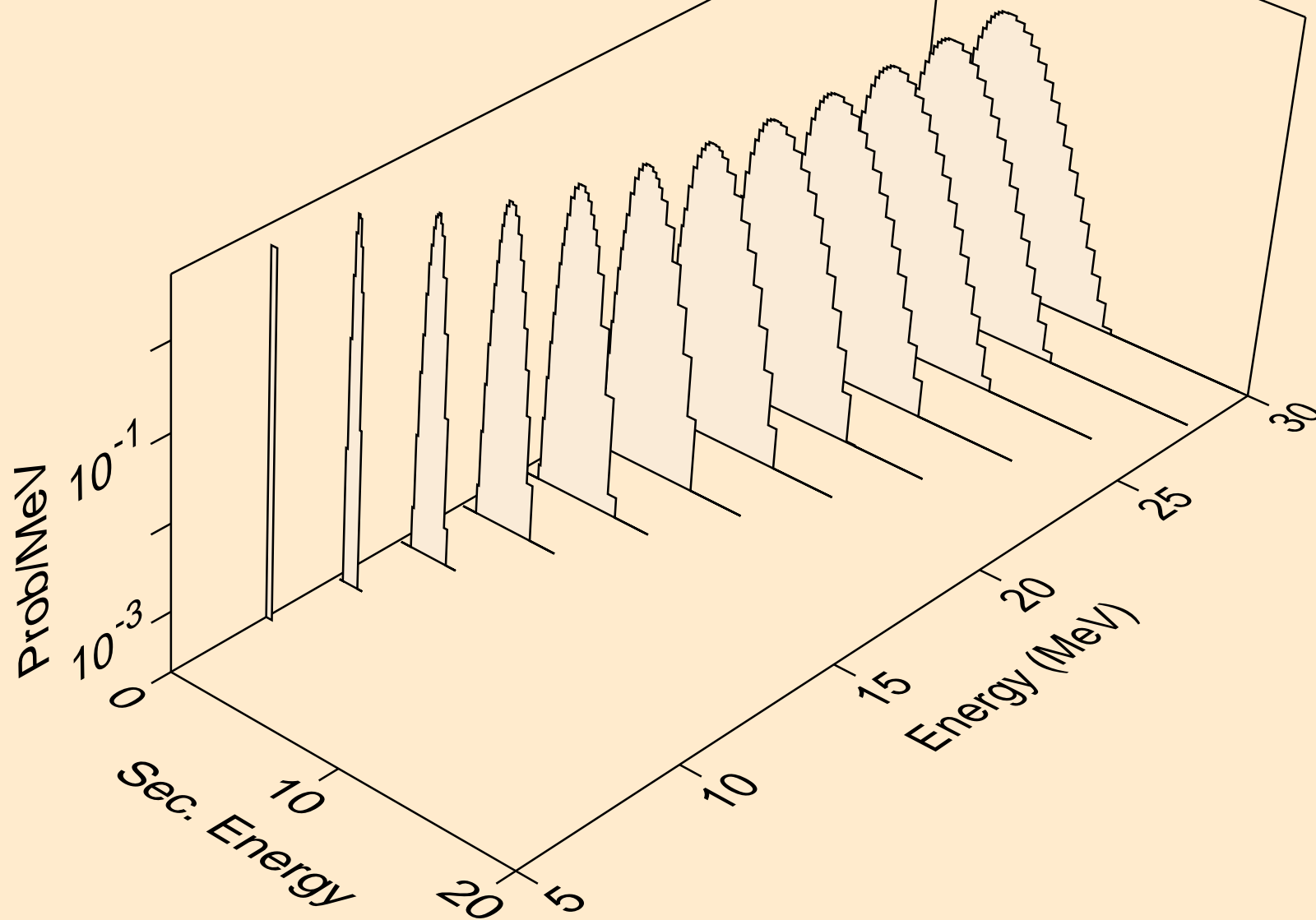
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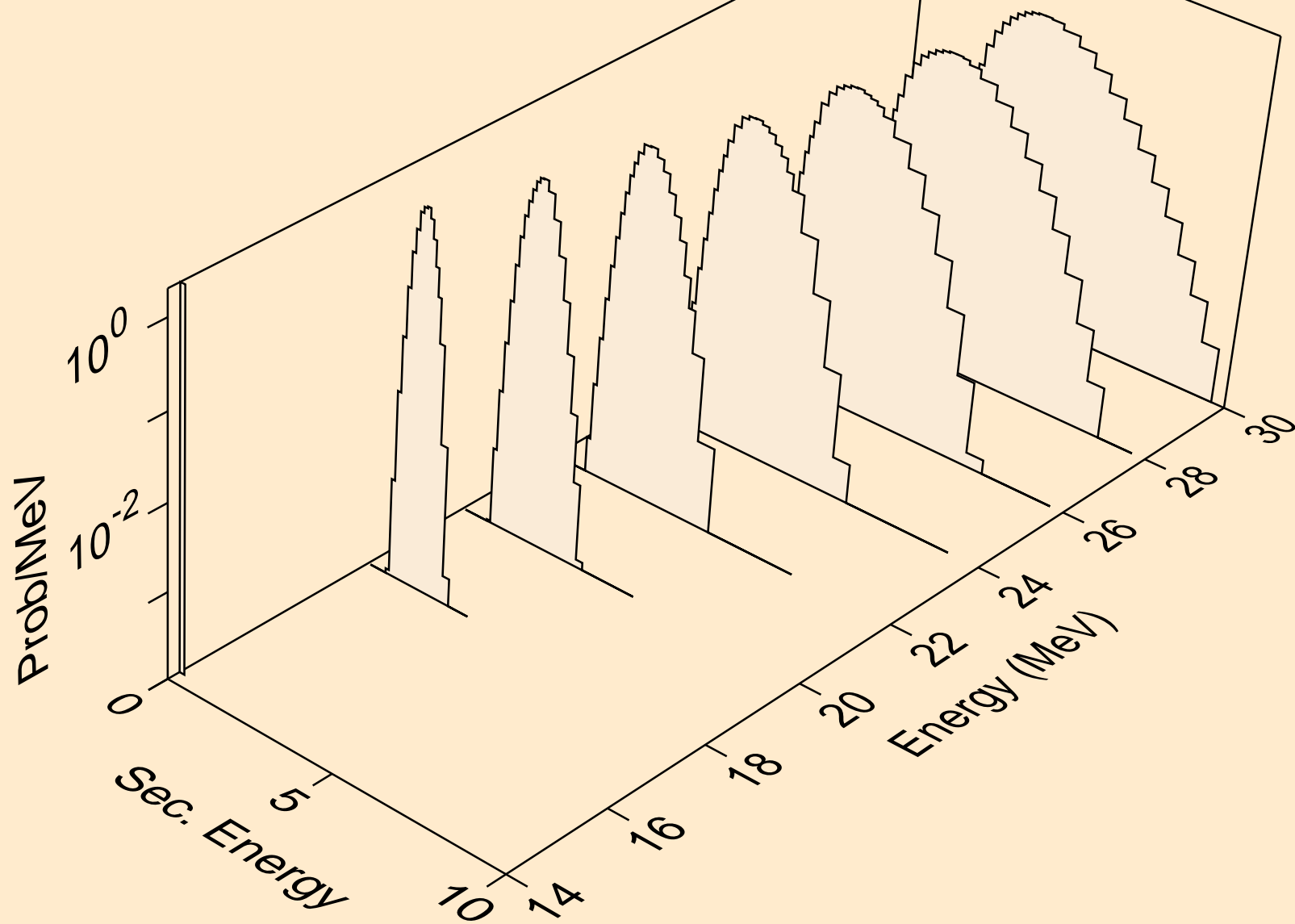
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protons from (n,p)



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,pd)

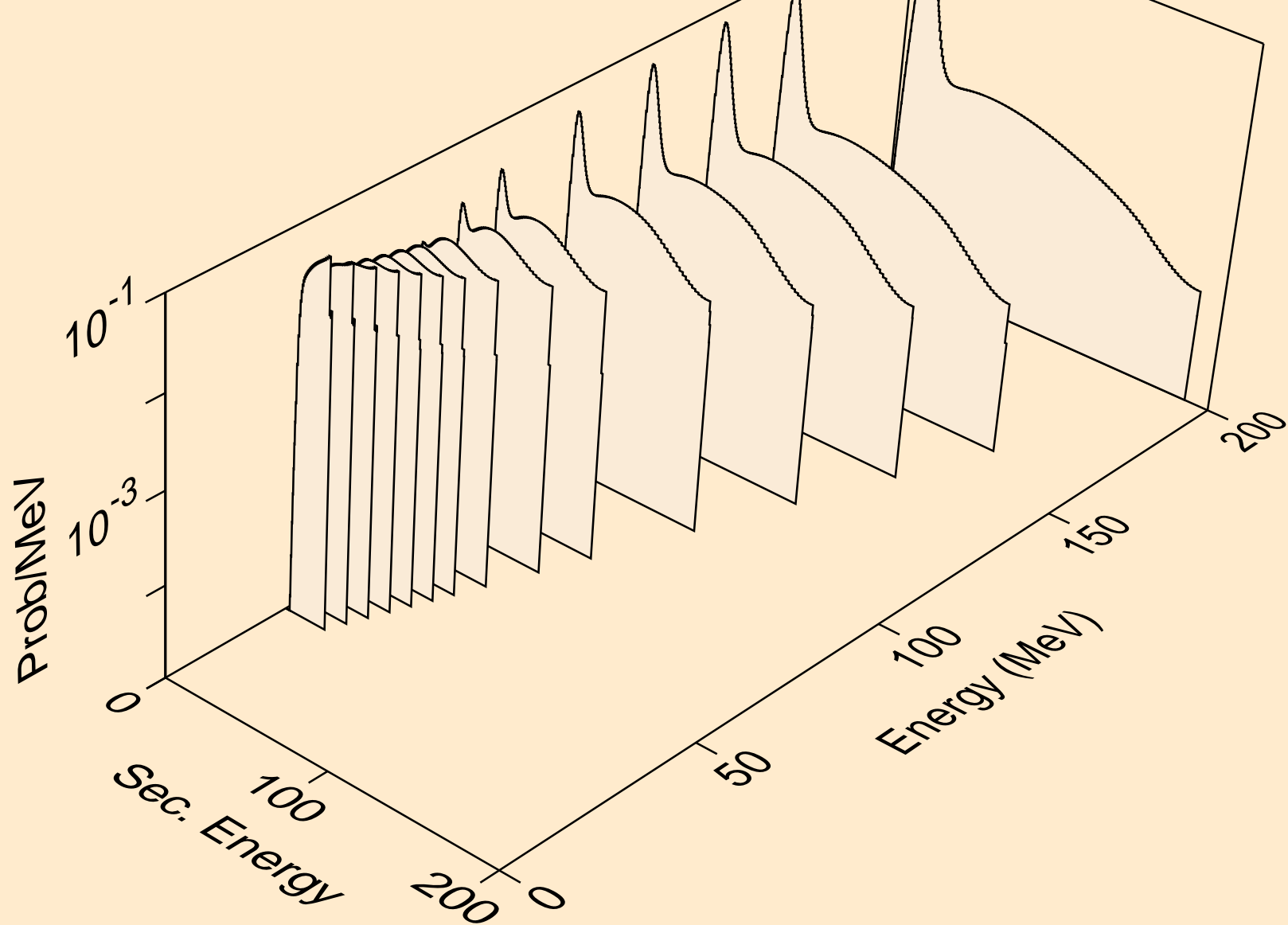


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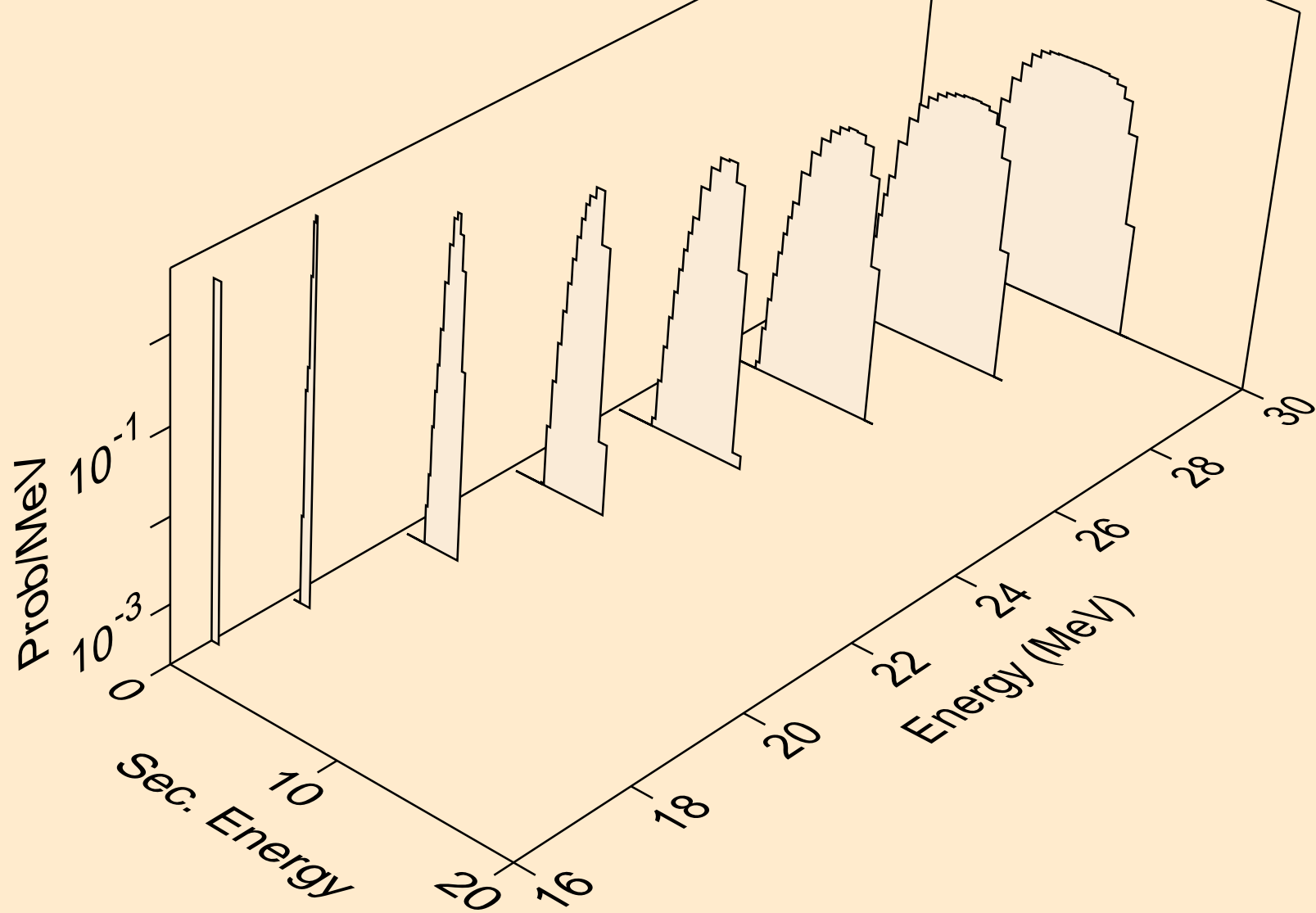




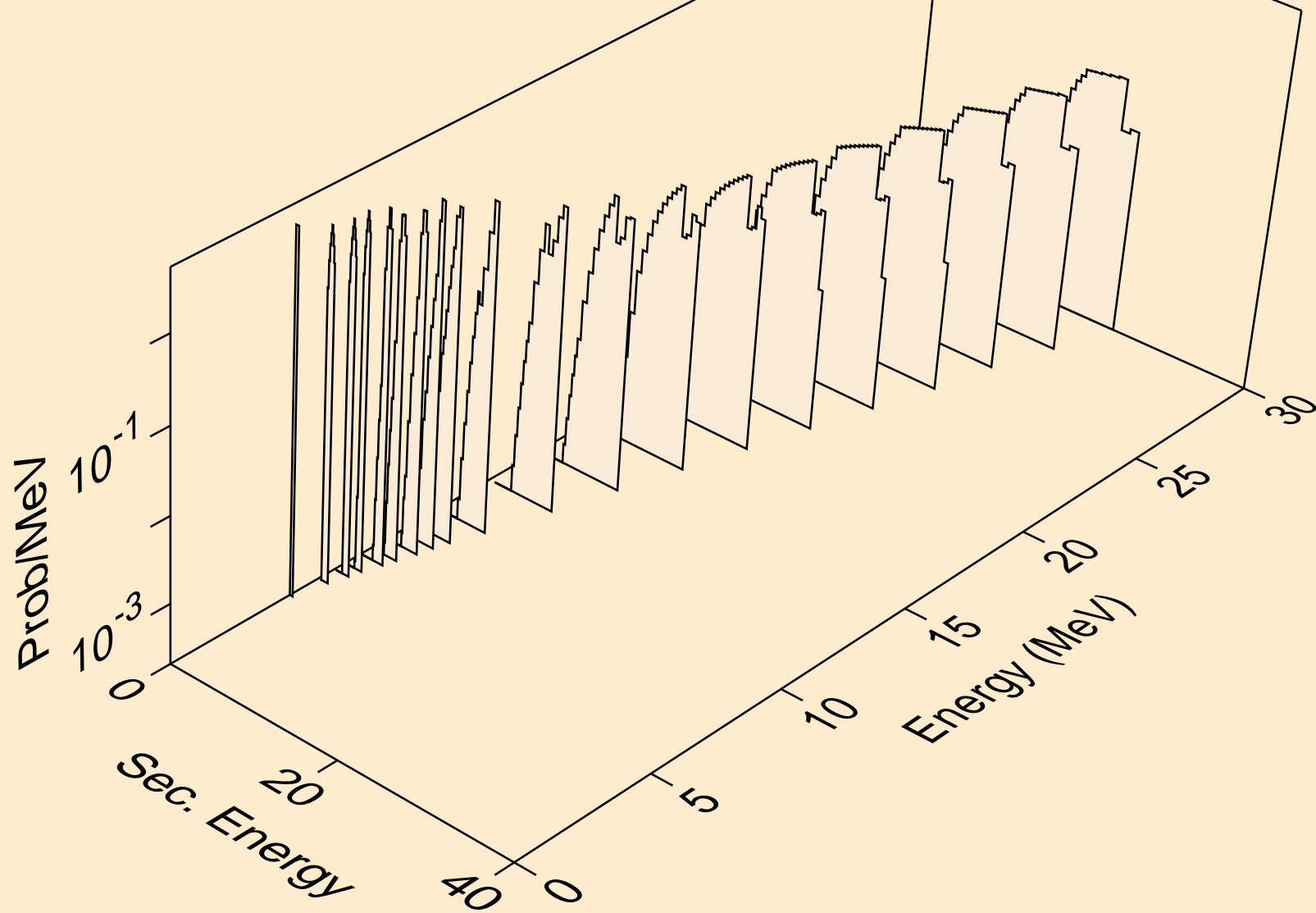
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deuterons from (n,x)



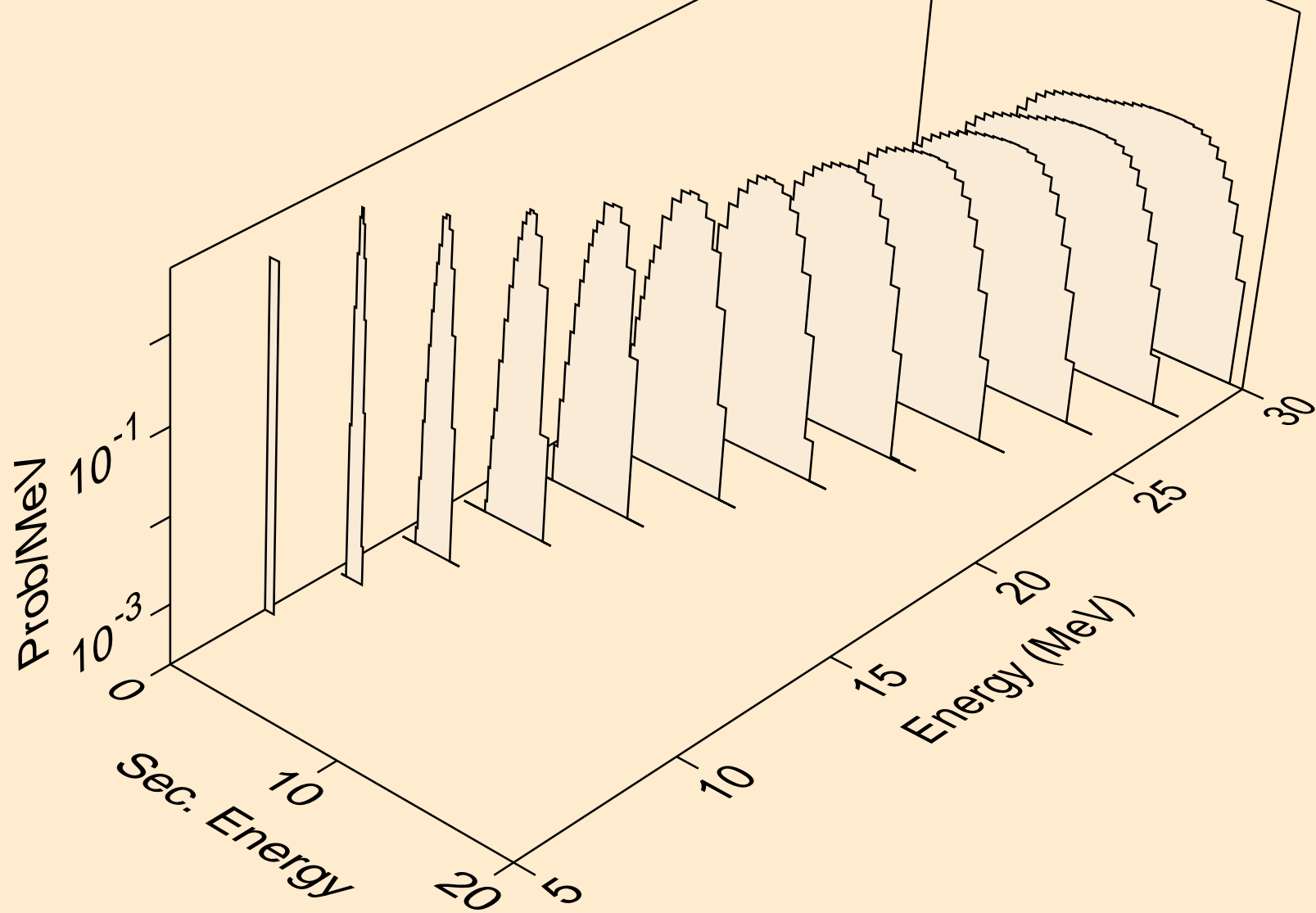
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deuterons from (n,n\*)d



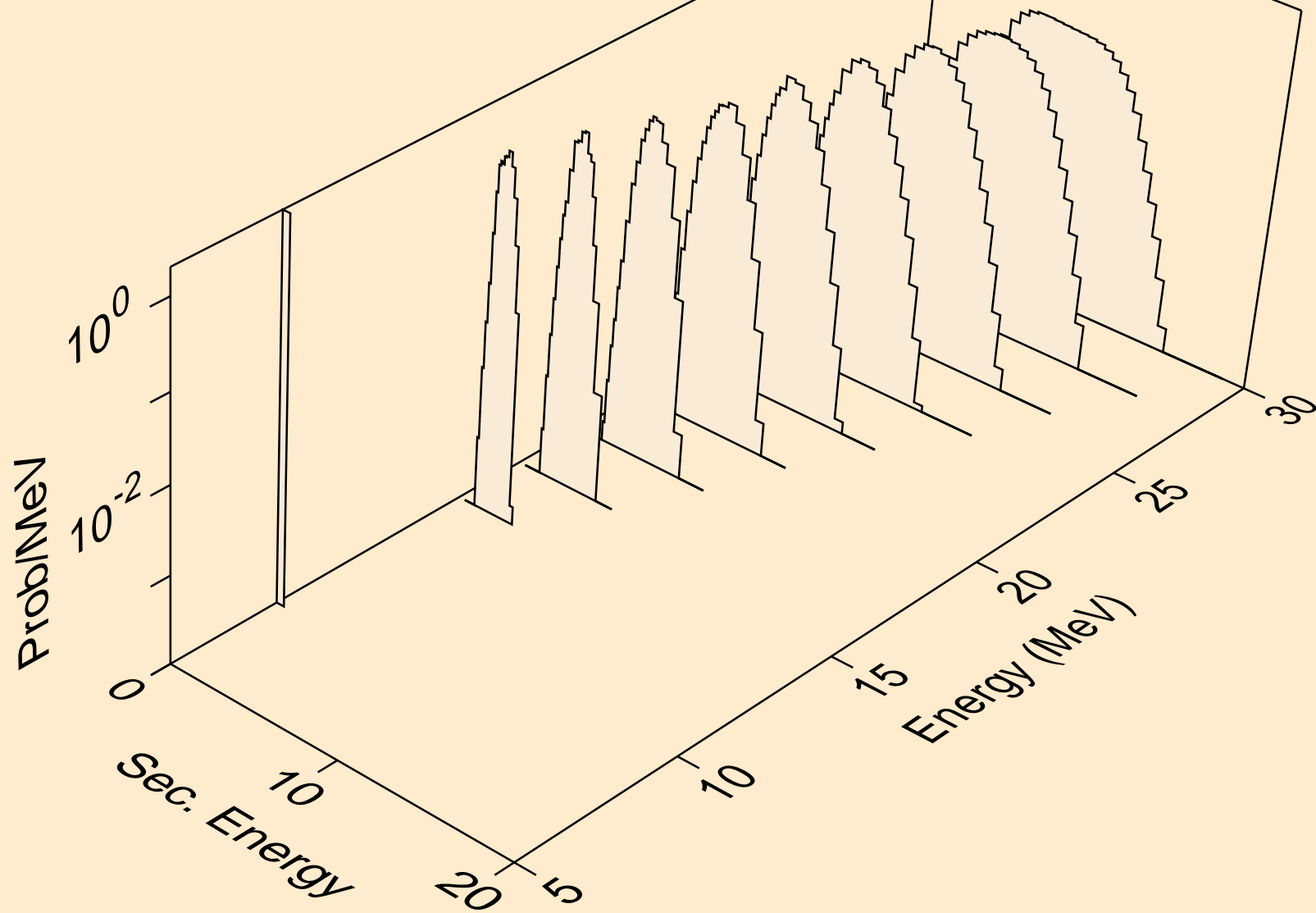
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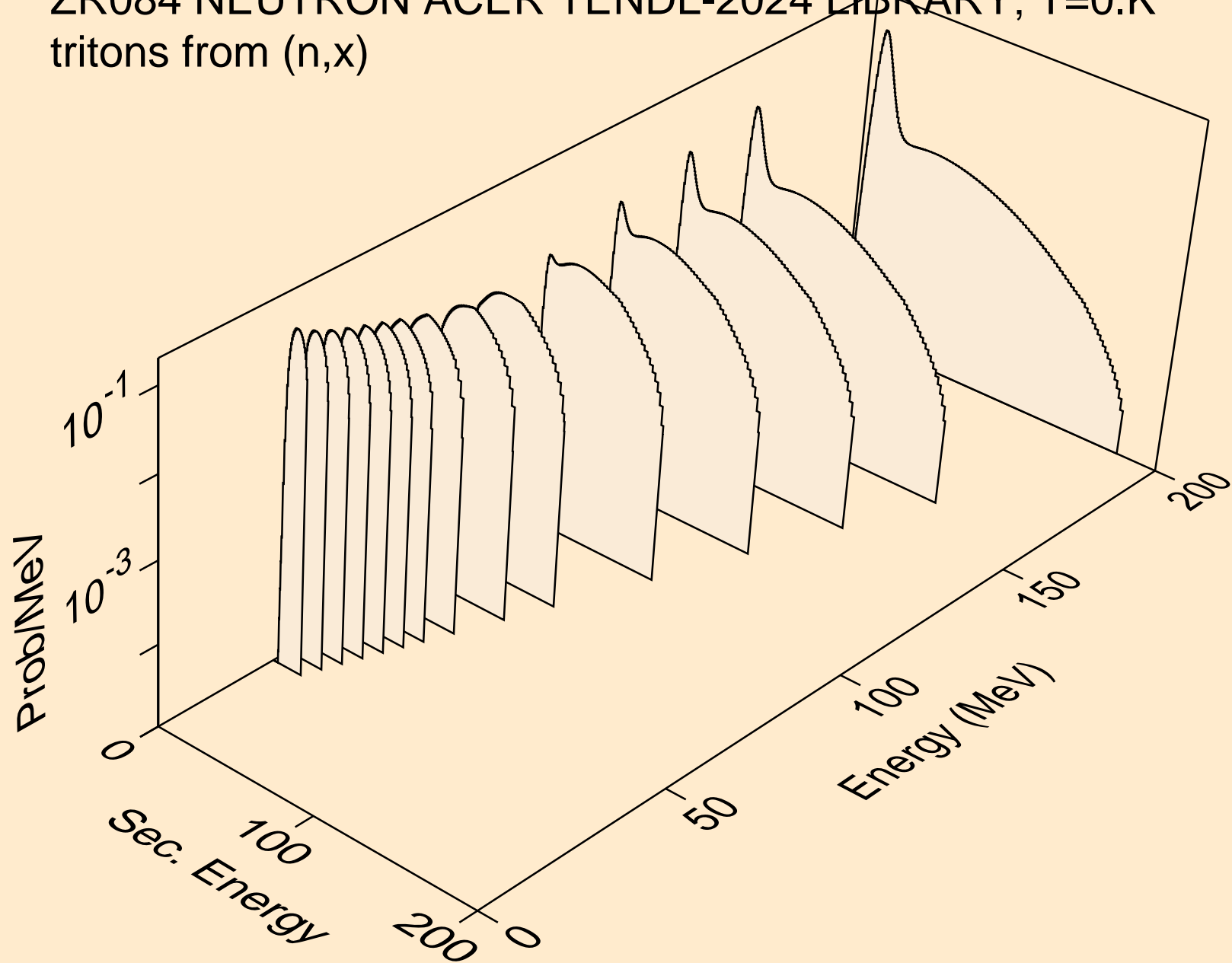
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deuterons from (n,pd)



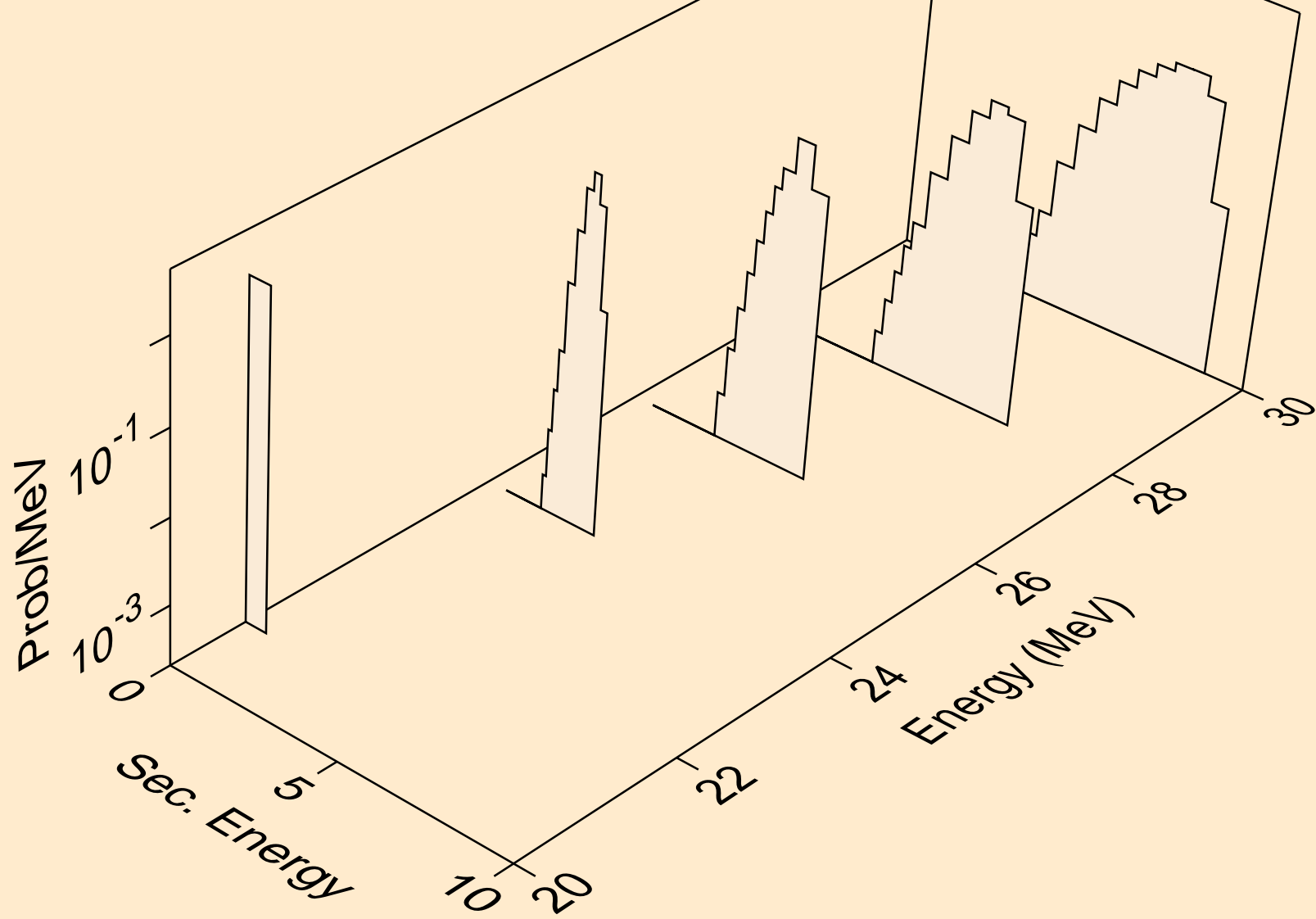
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deuterons from (n,da)



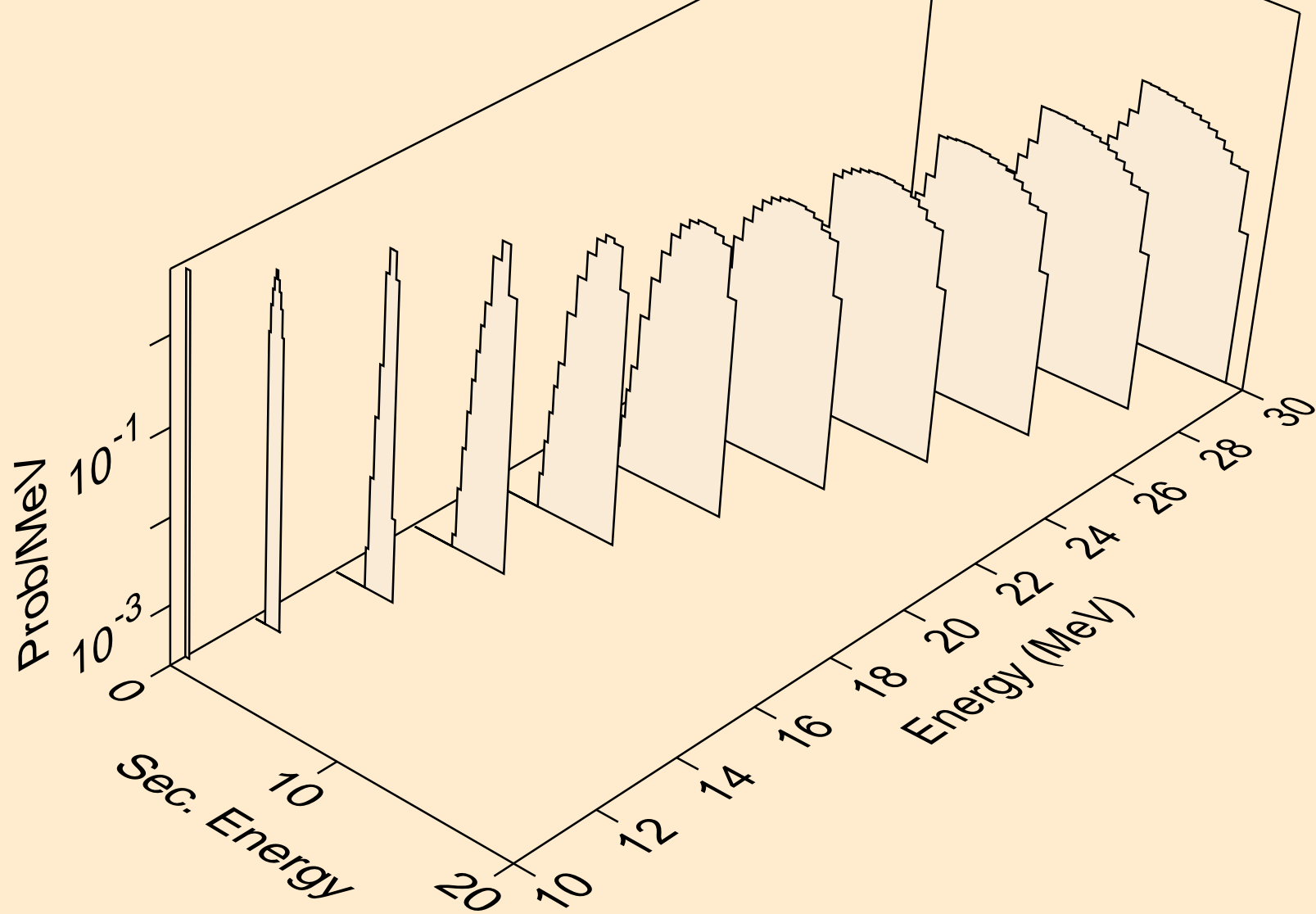
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,x)



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,n\*)t

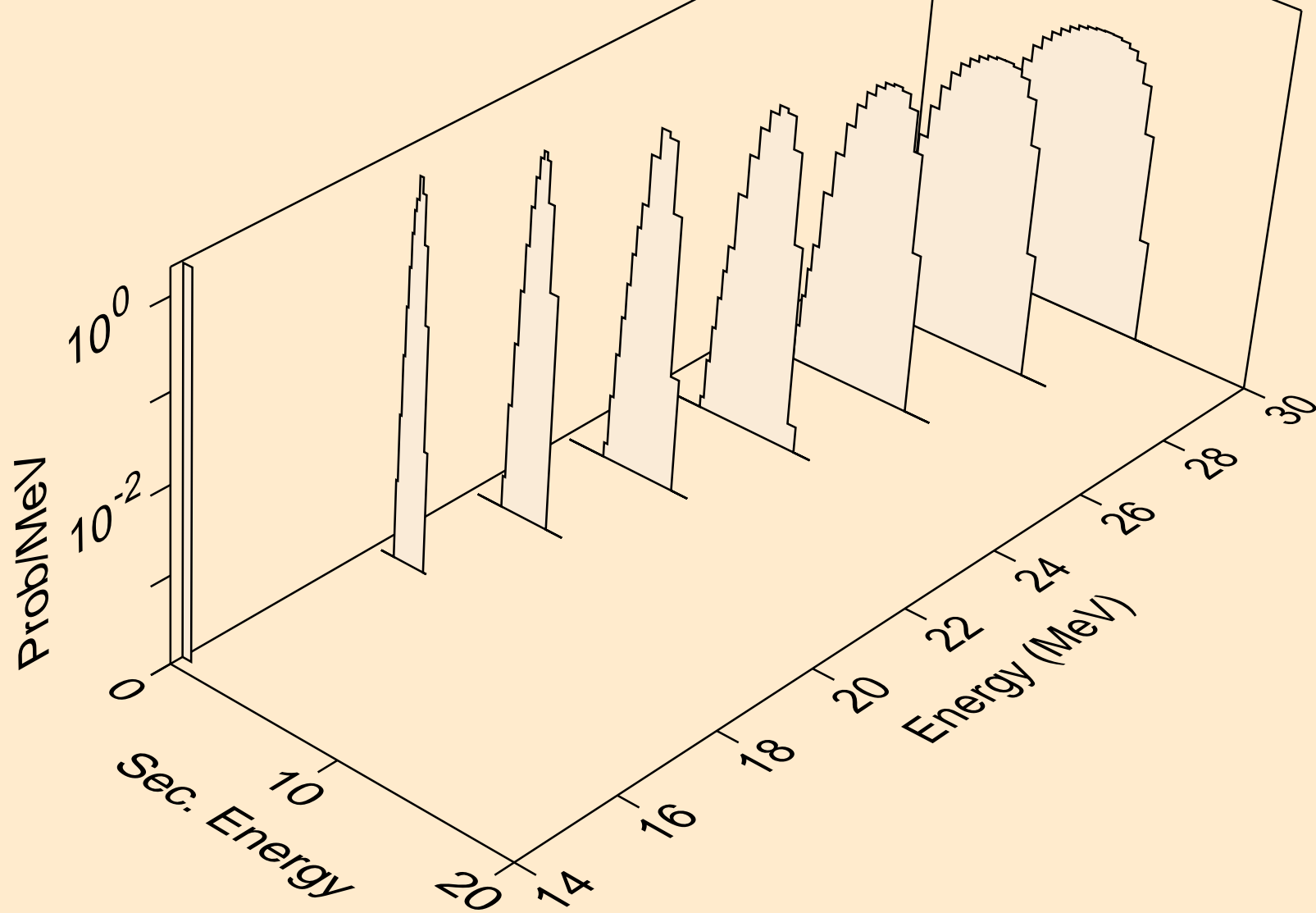


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tritons from (n,t)

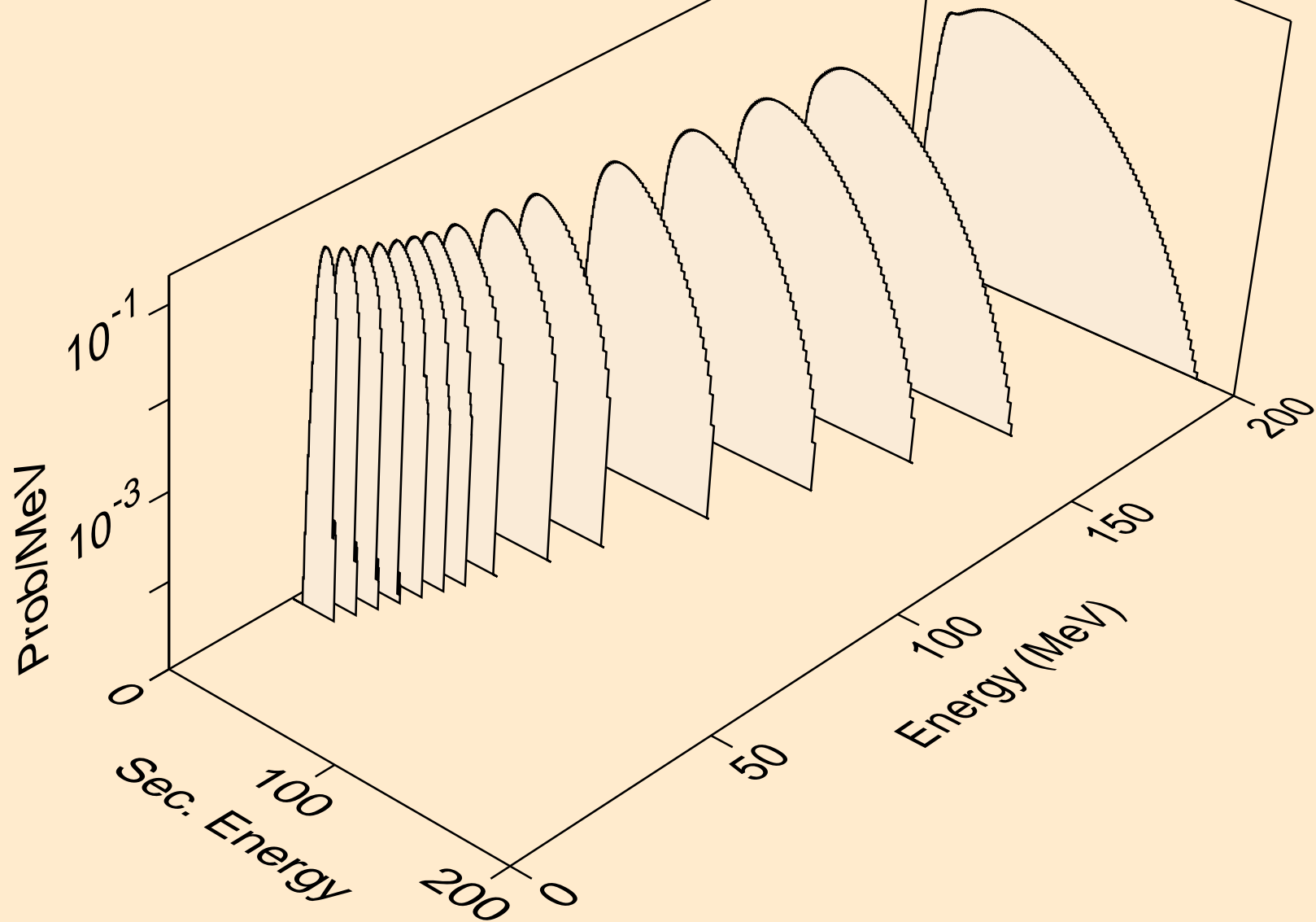




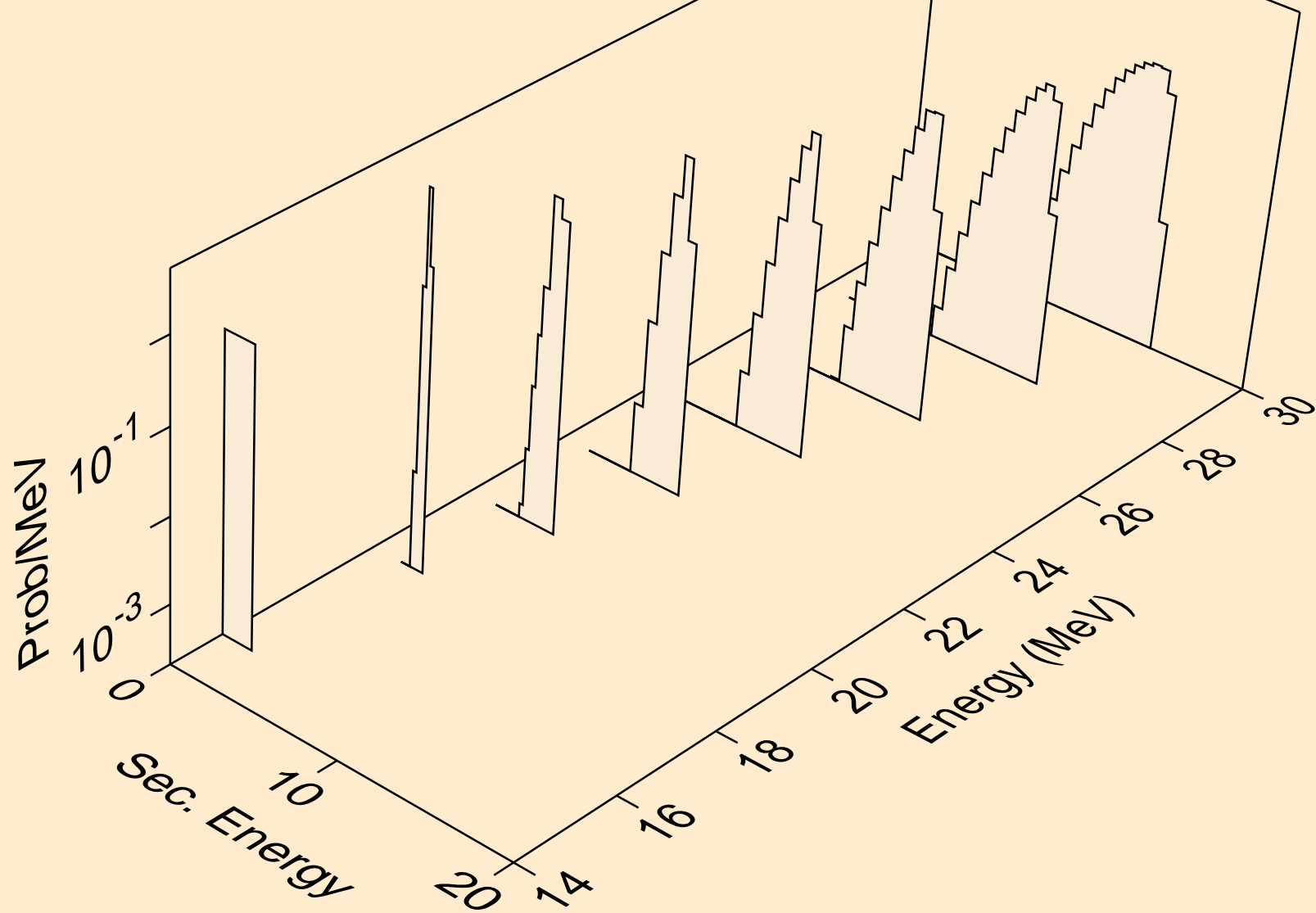
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tritons from (n,pt)



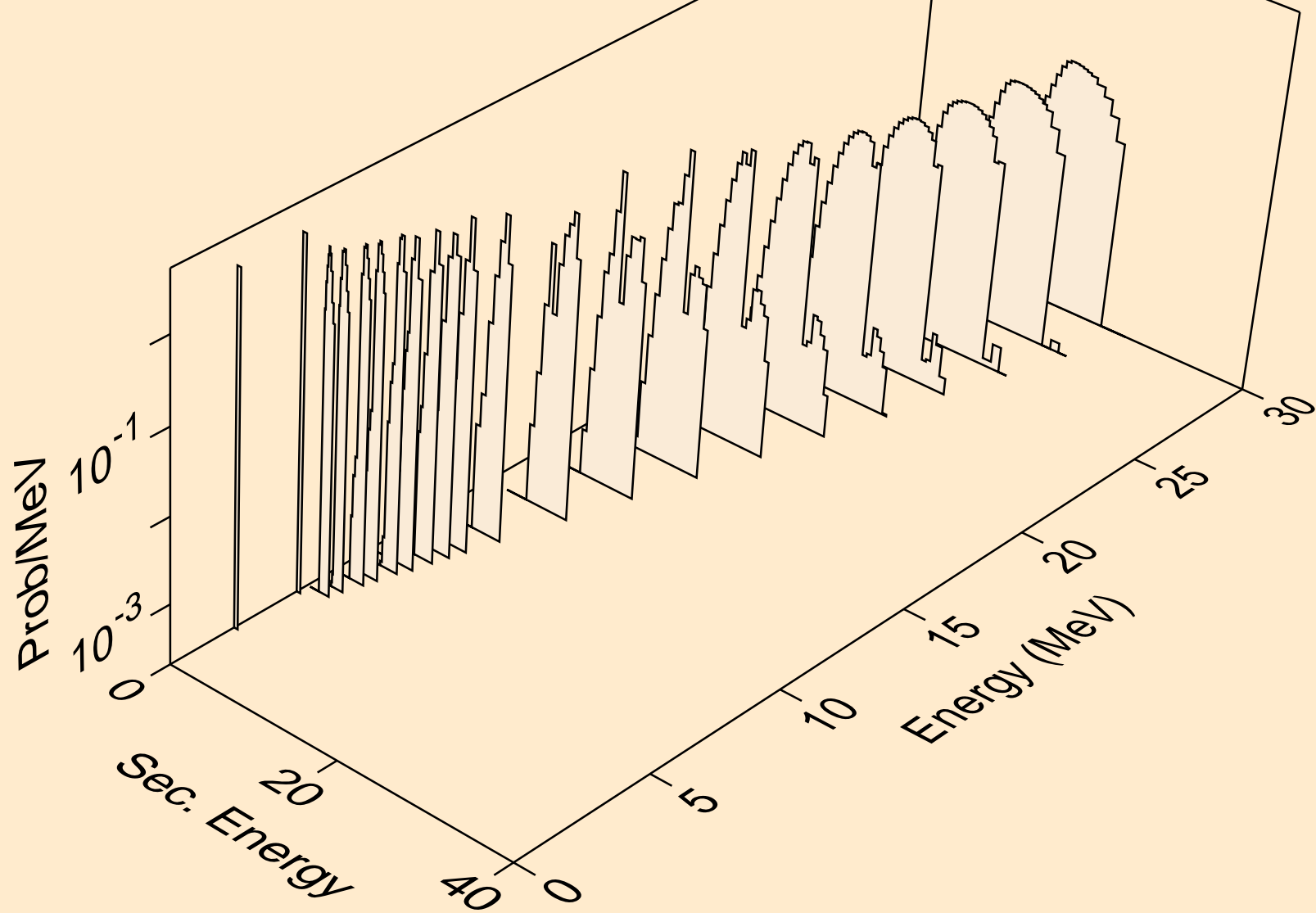
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he3s from (n,x)



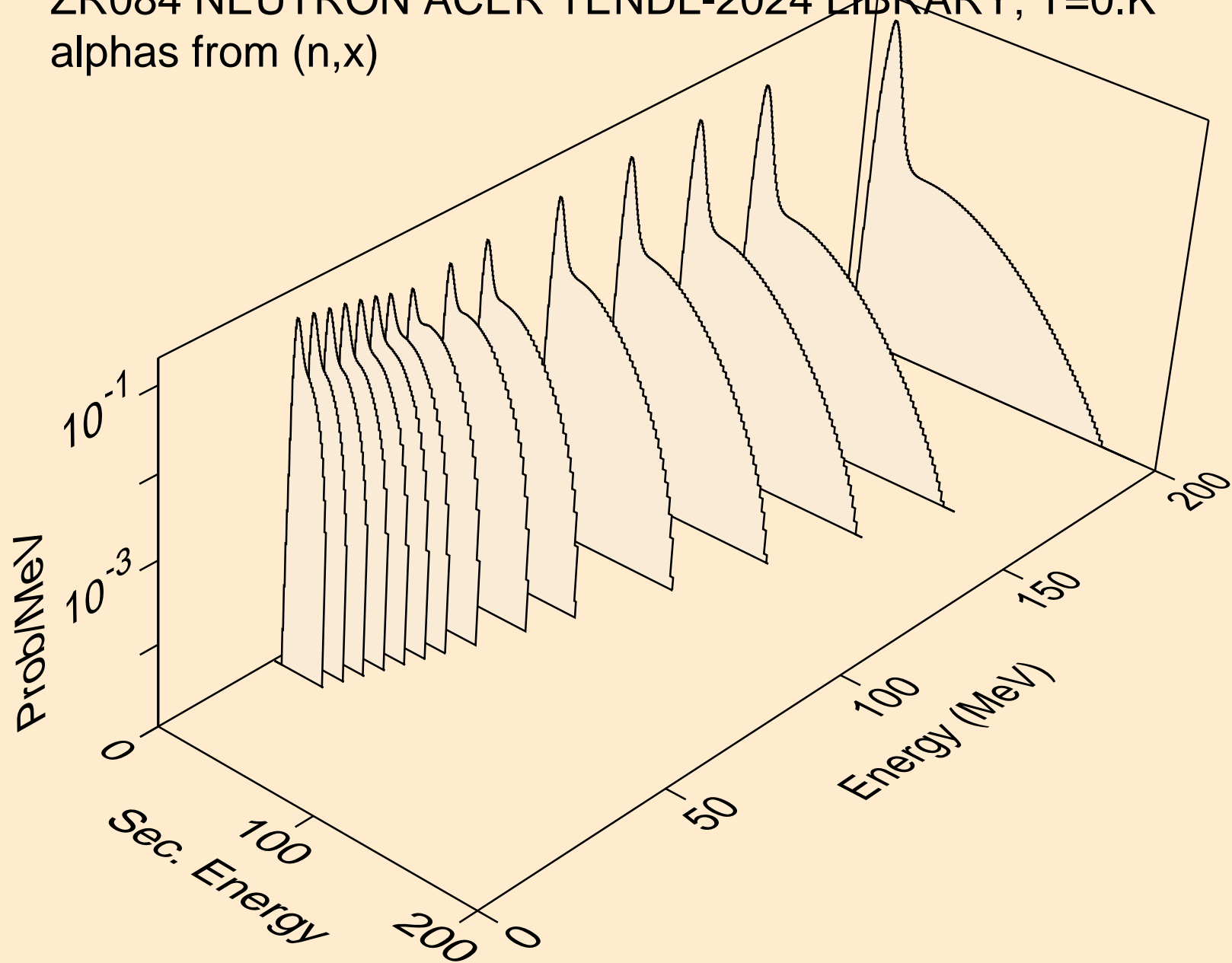
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he3s from (n,n\*)he3



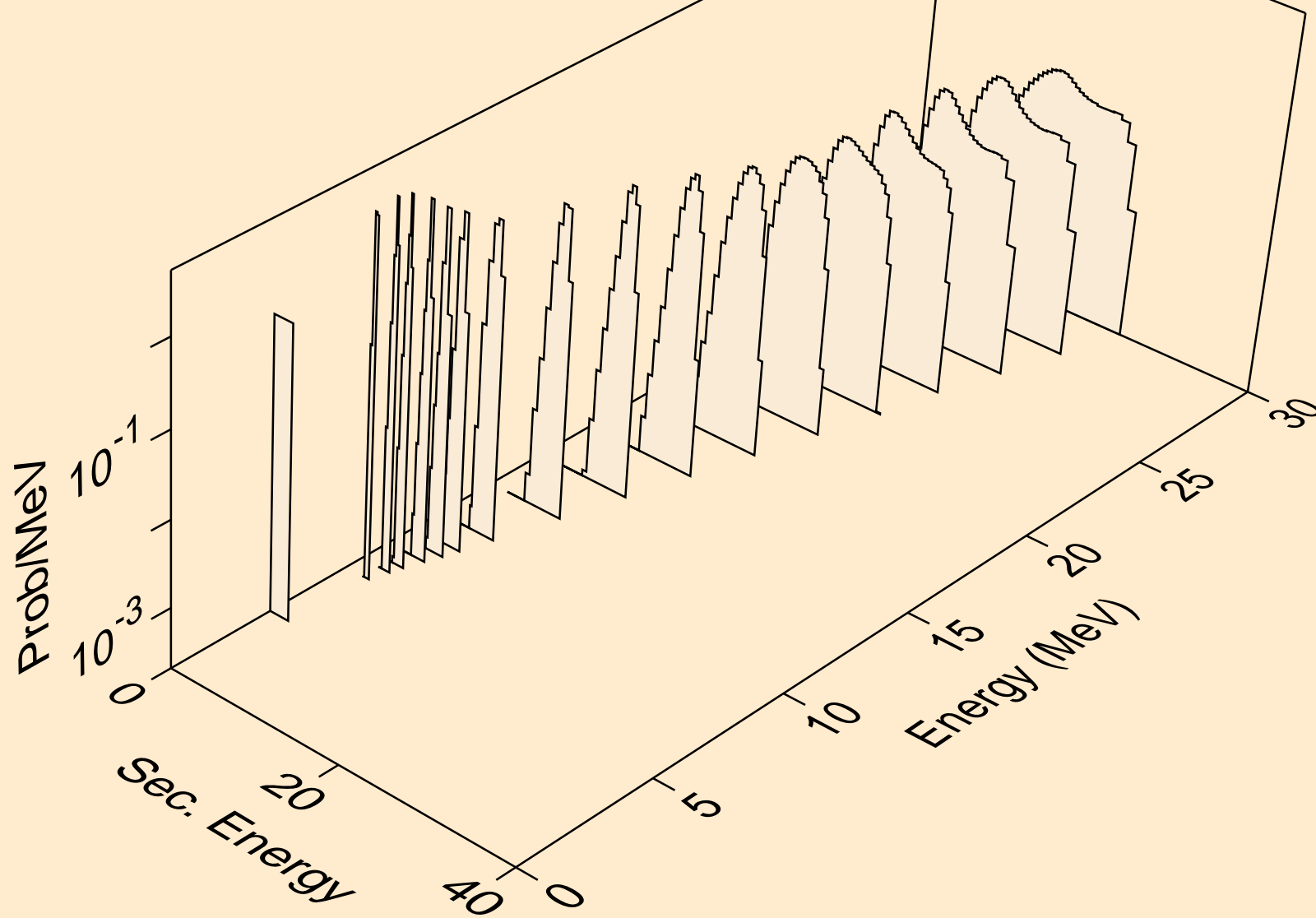
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he3s from (n,he3)



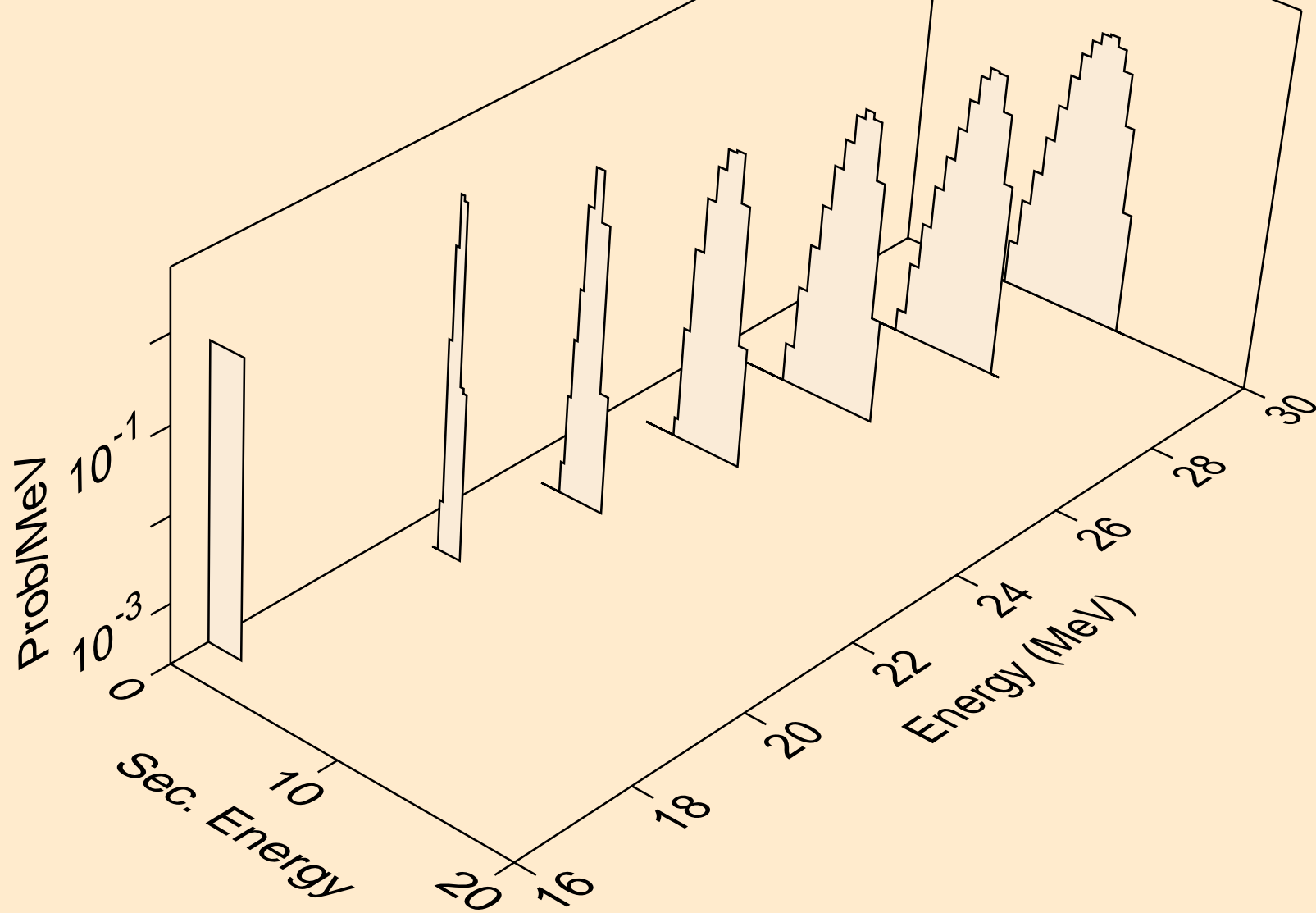
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)



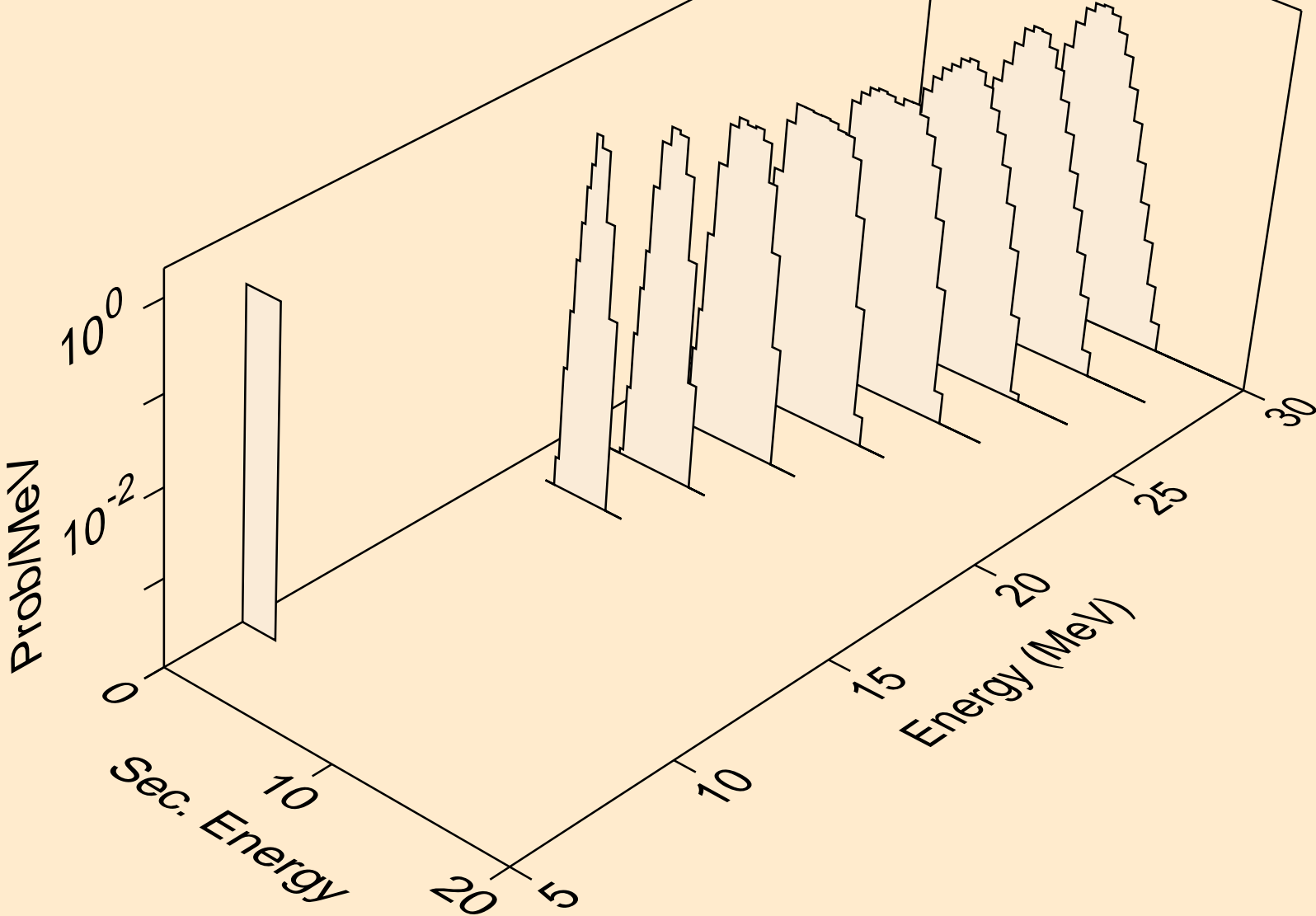
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a

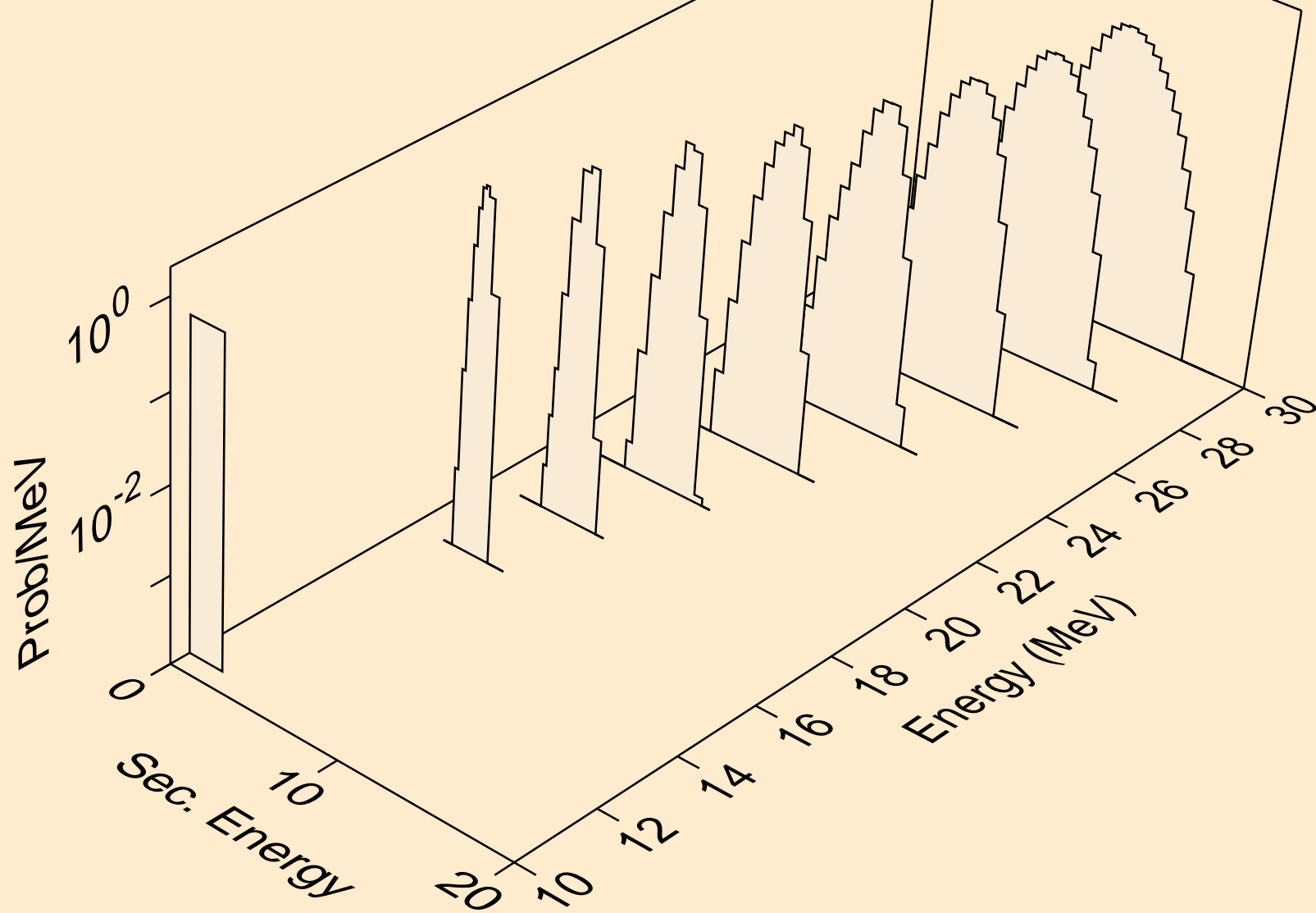


ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)2a

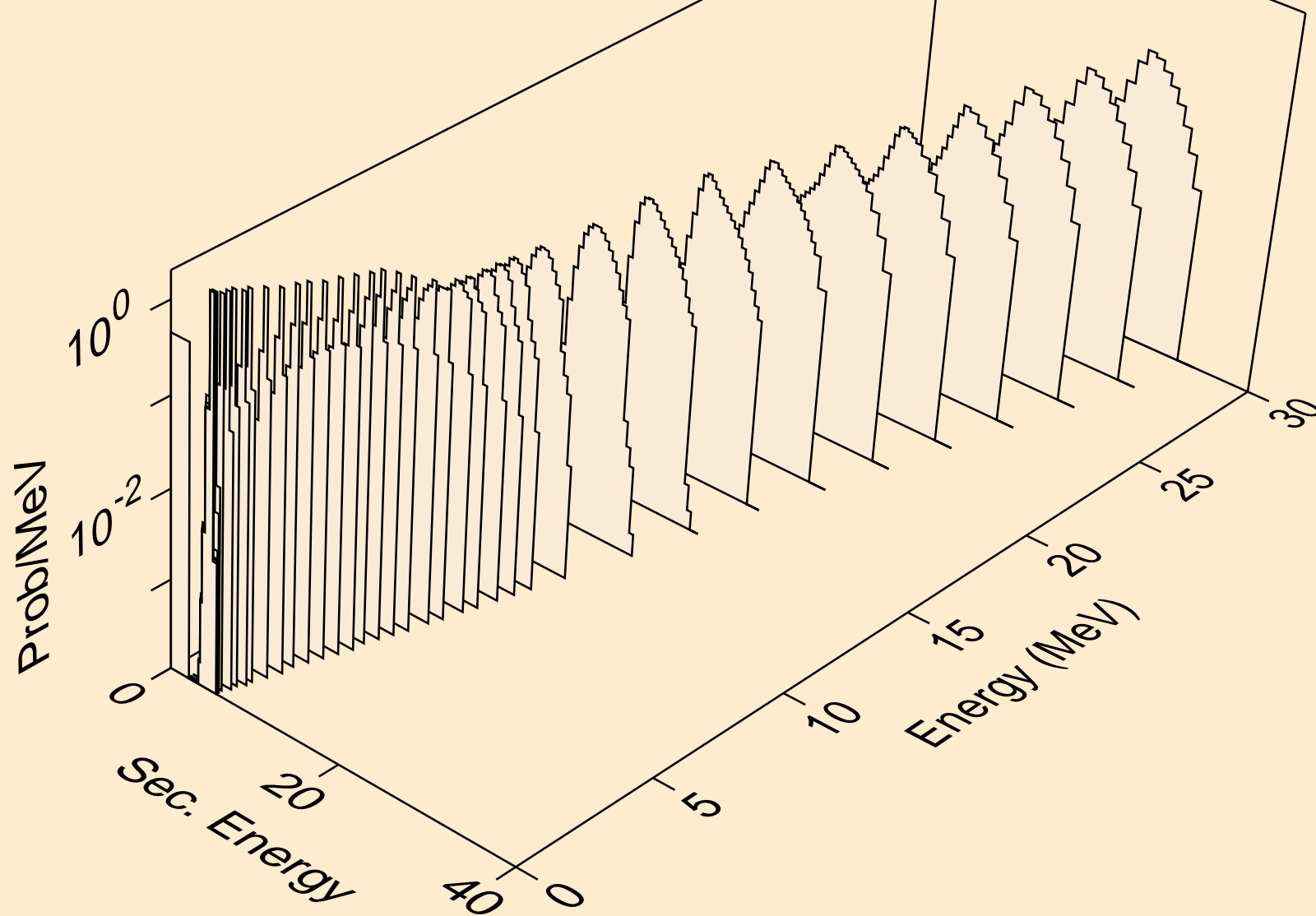




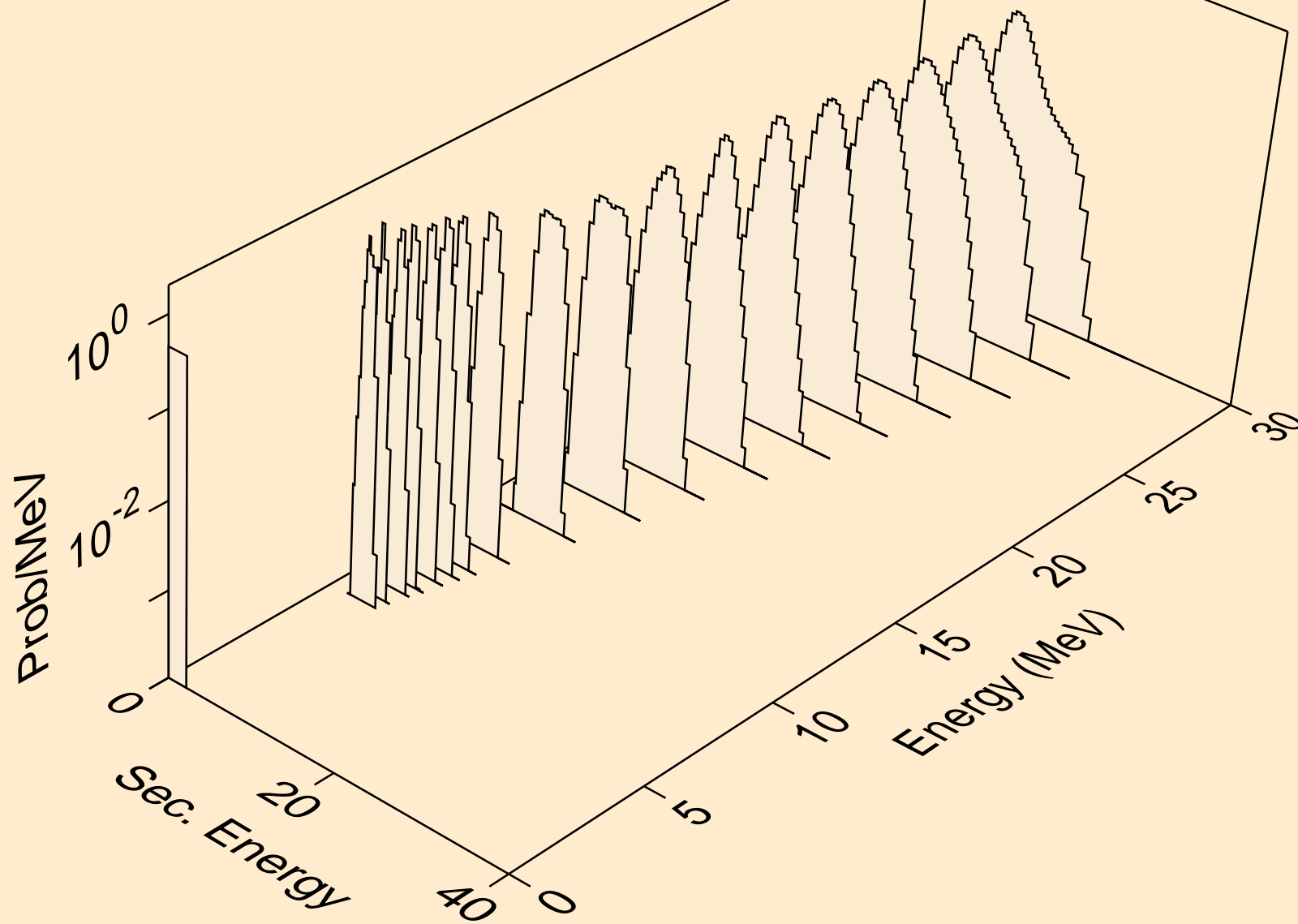
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alphas from (n,npa)



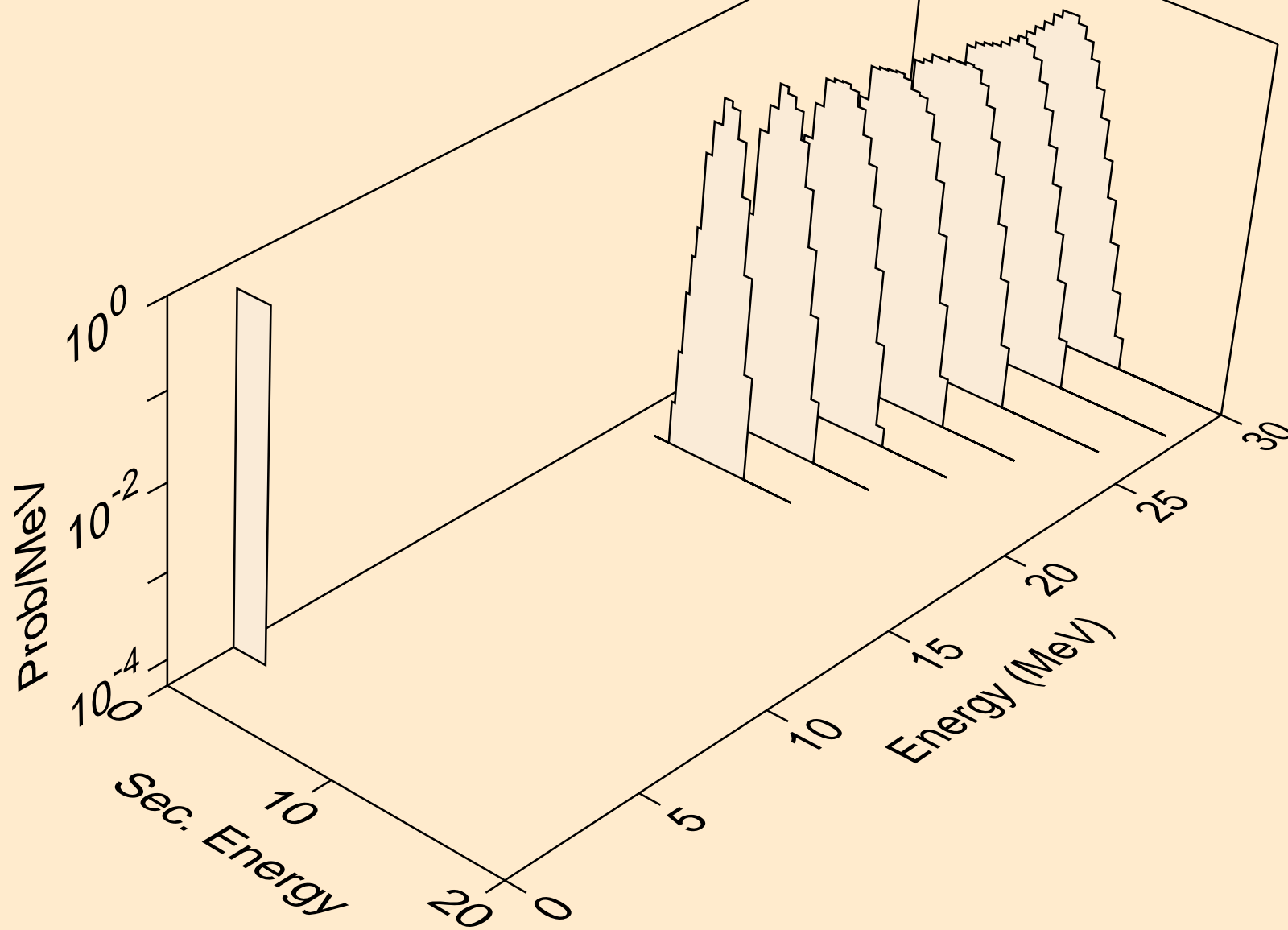
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alphas from (n,a)



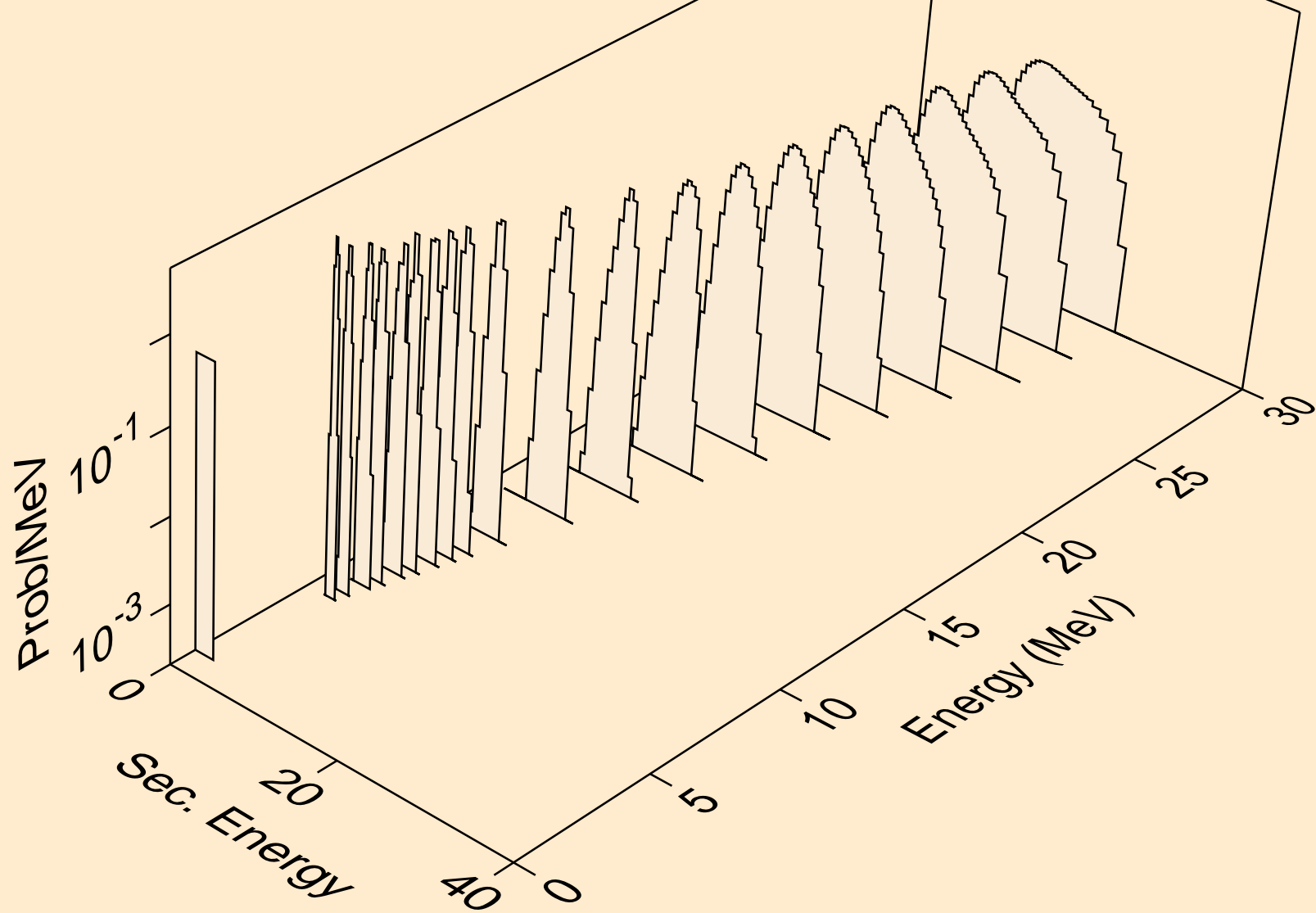
ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3a)



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,p)



ZR084 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

