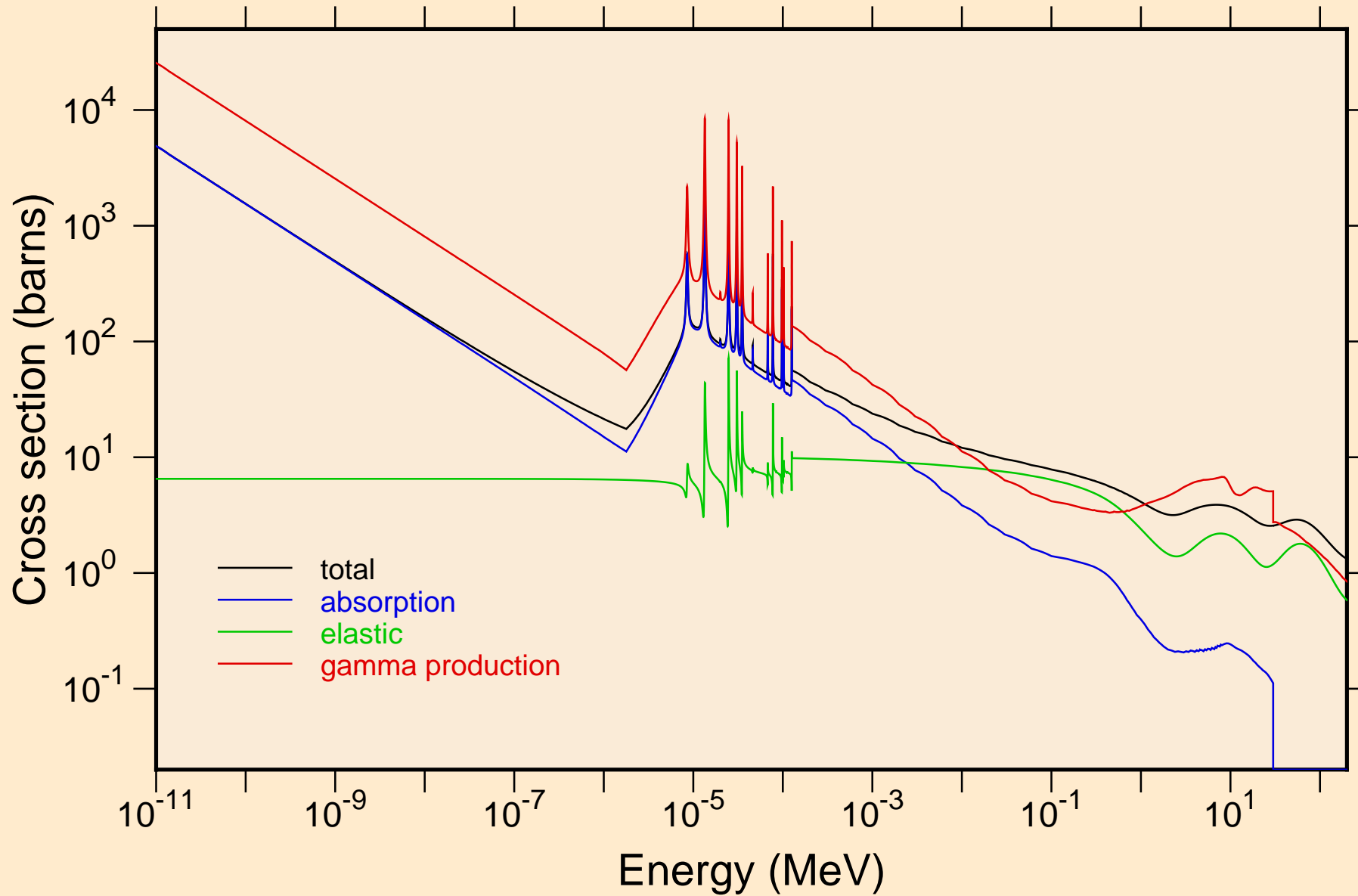
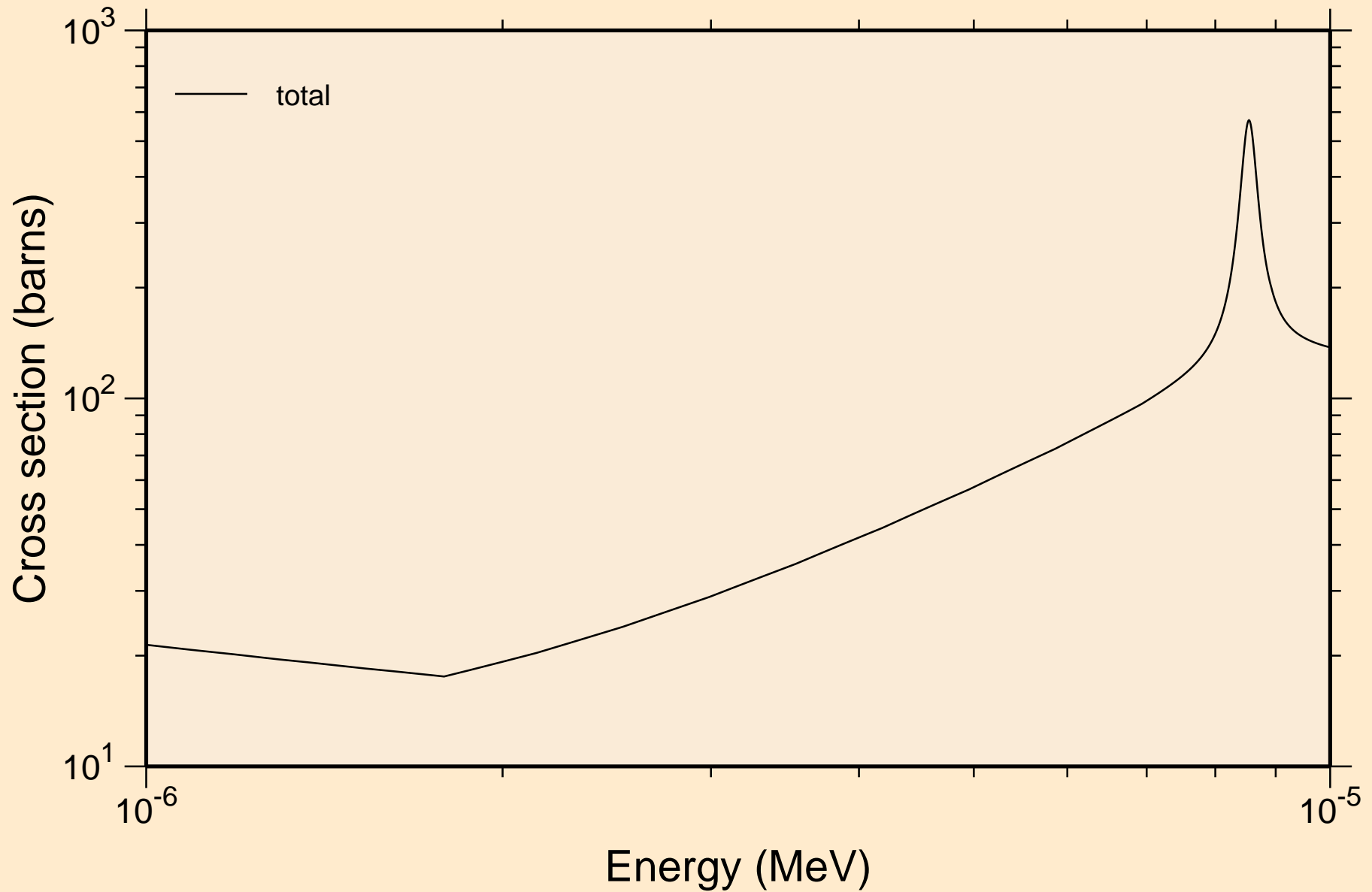


# AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

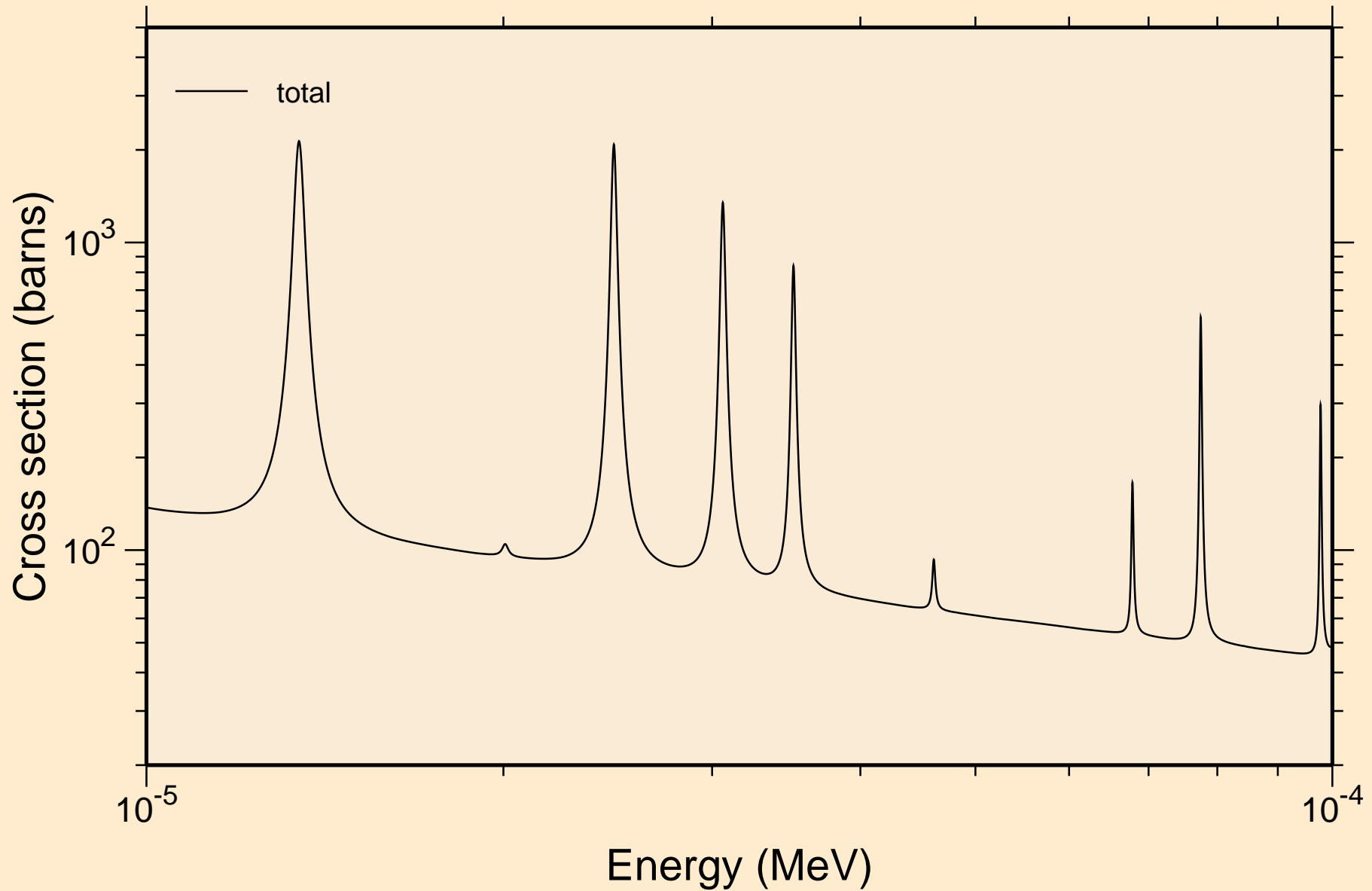
## Principal cross sections



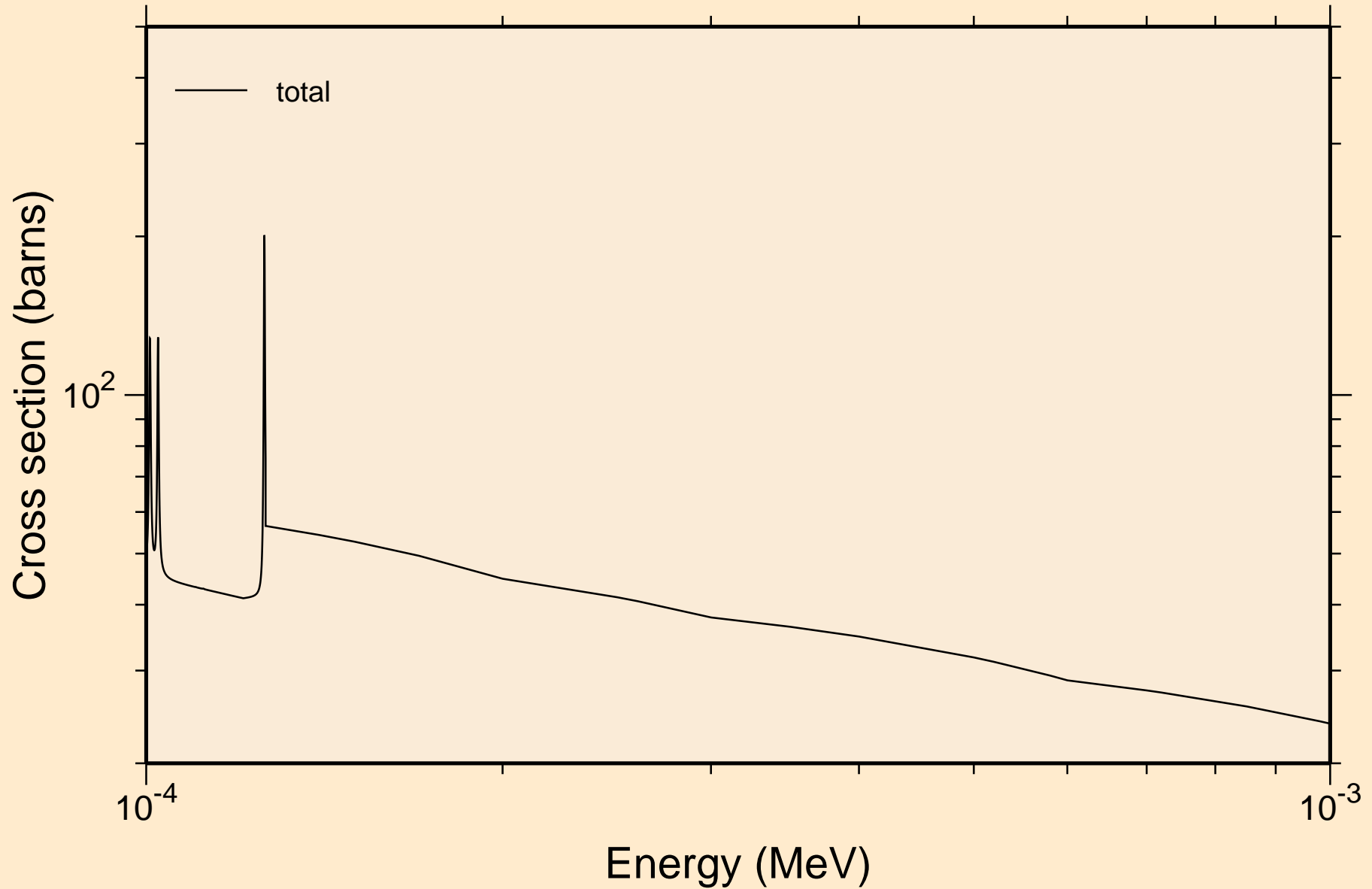
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



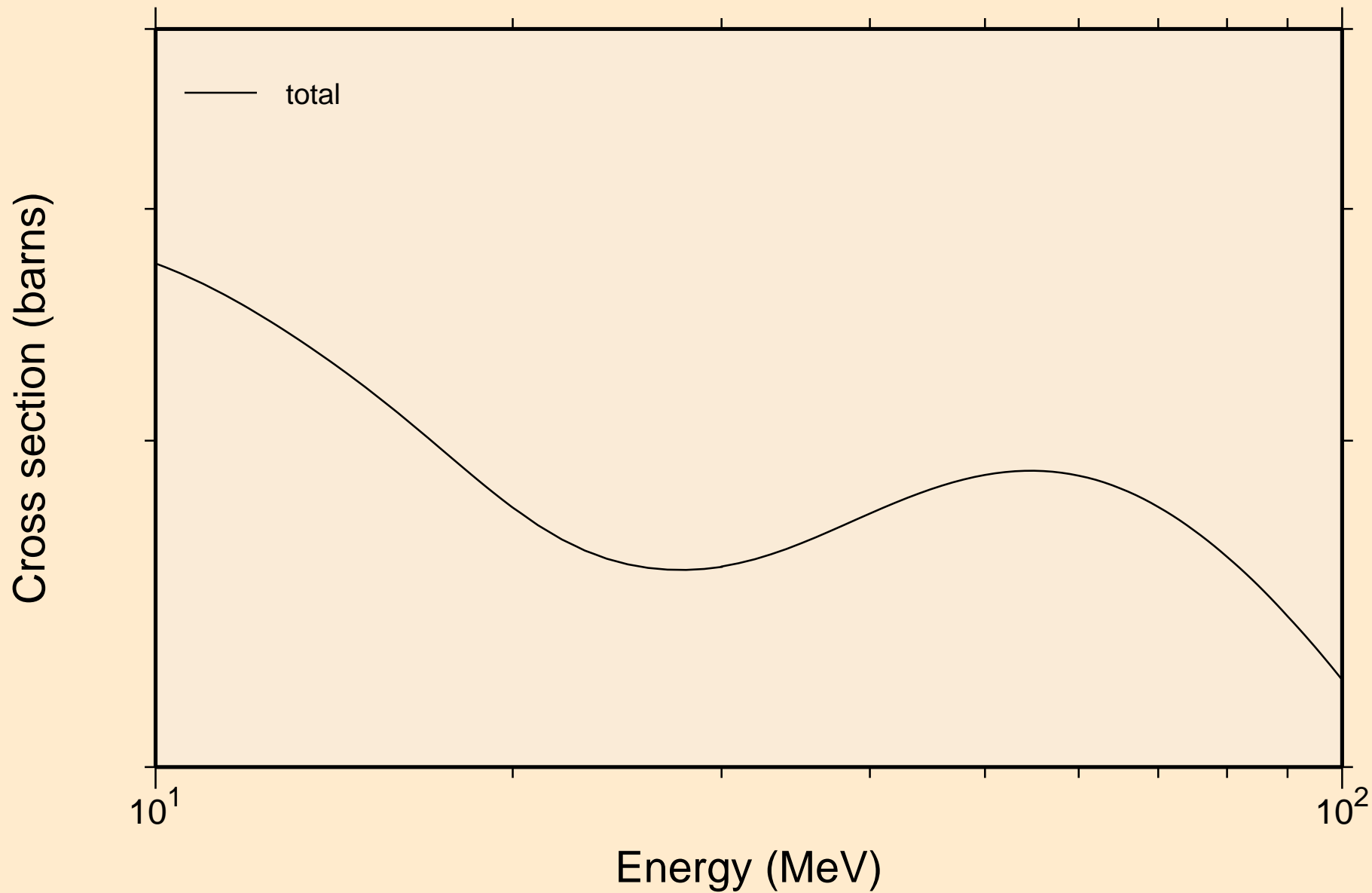
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



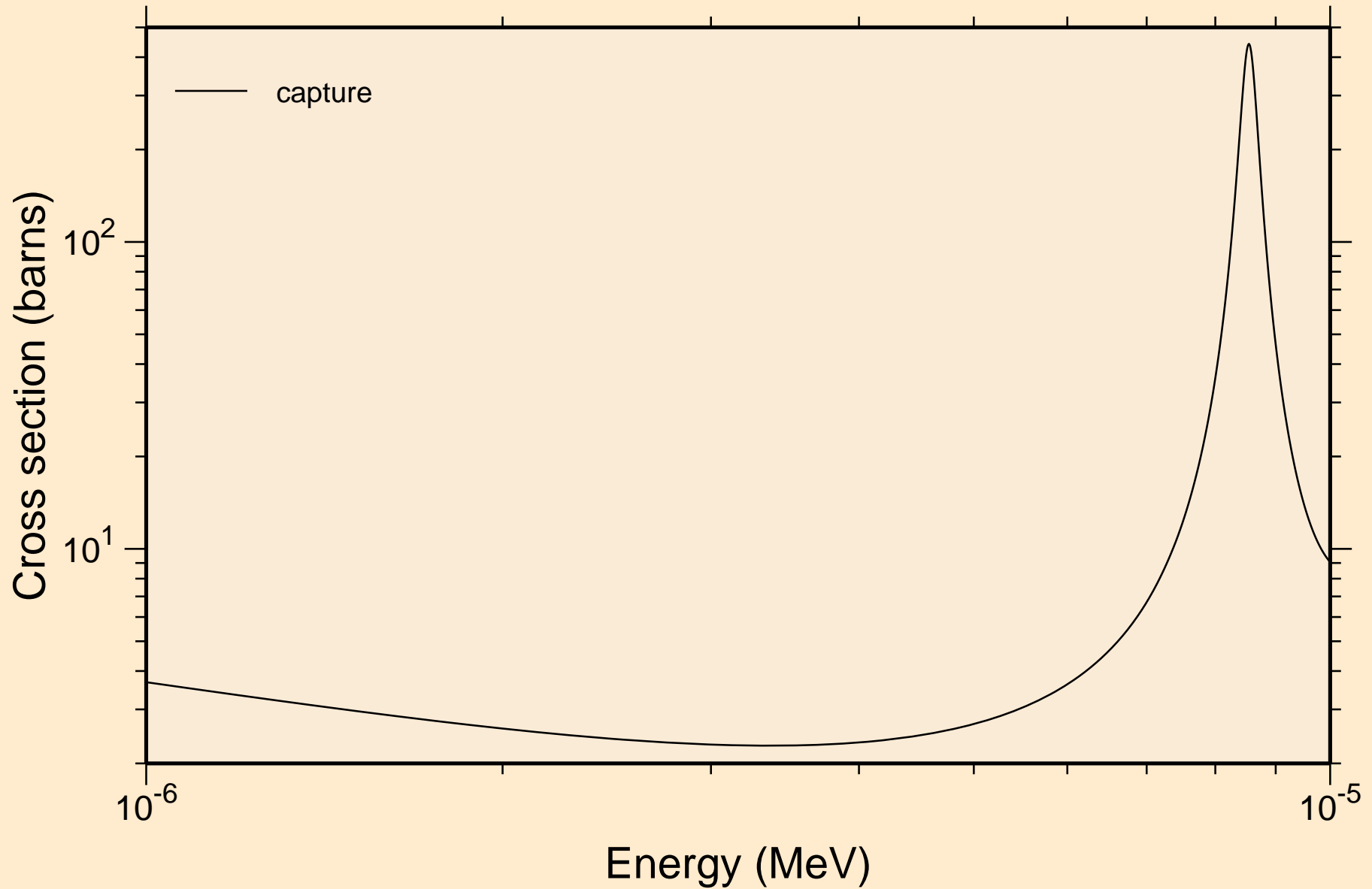
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



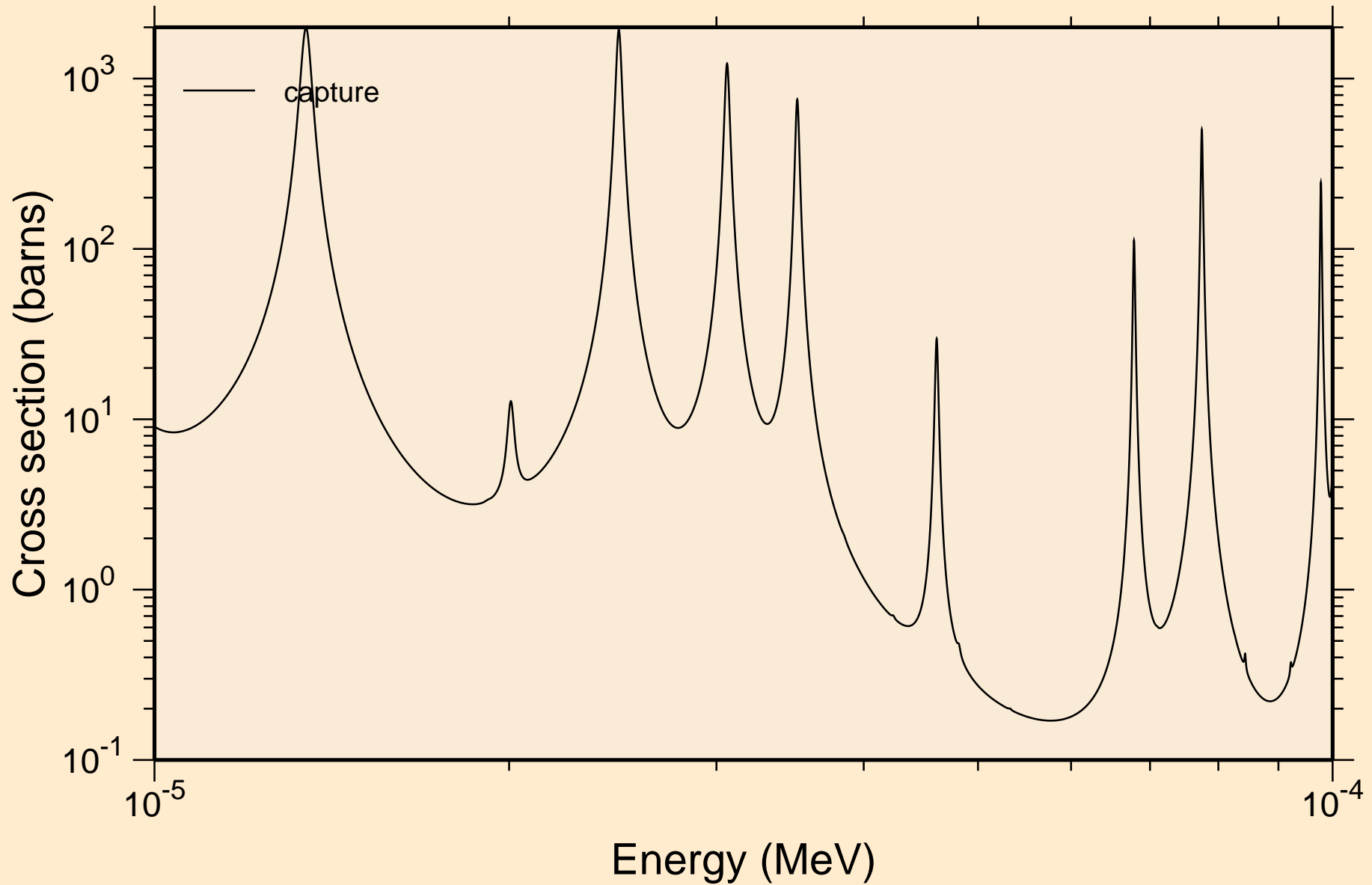
A5072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



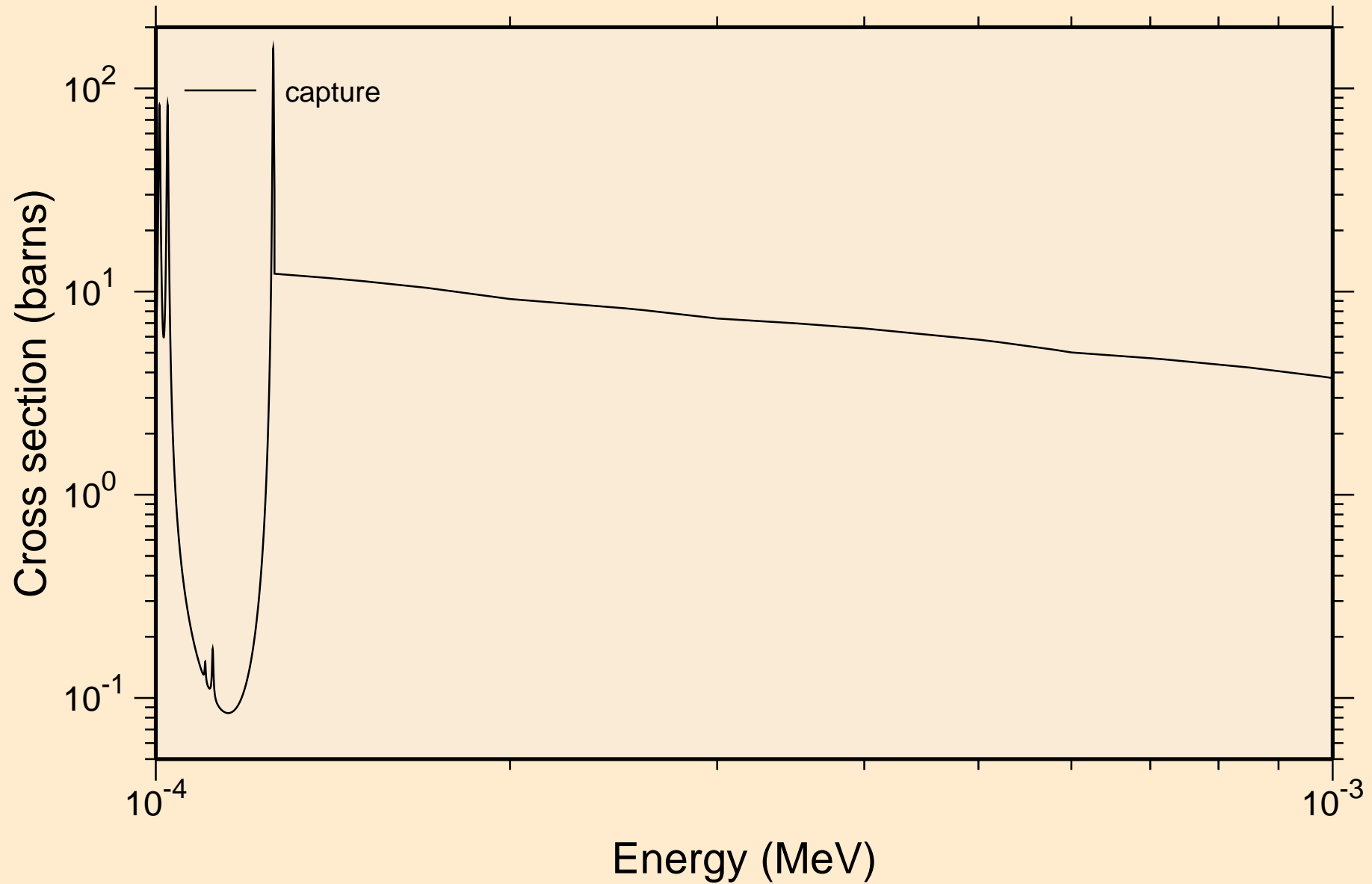
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

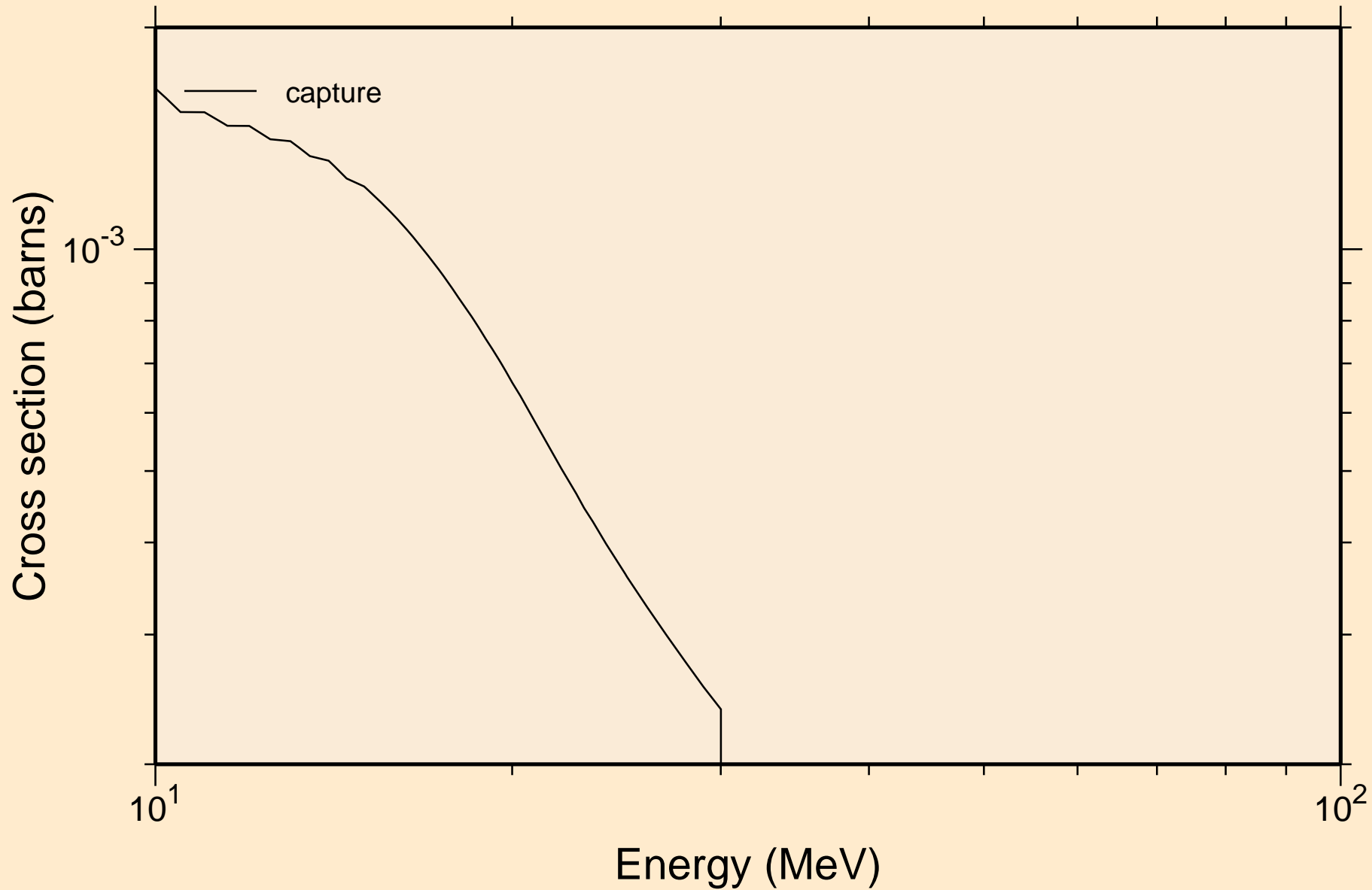


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



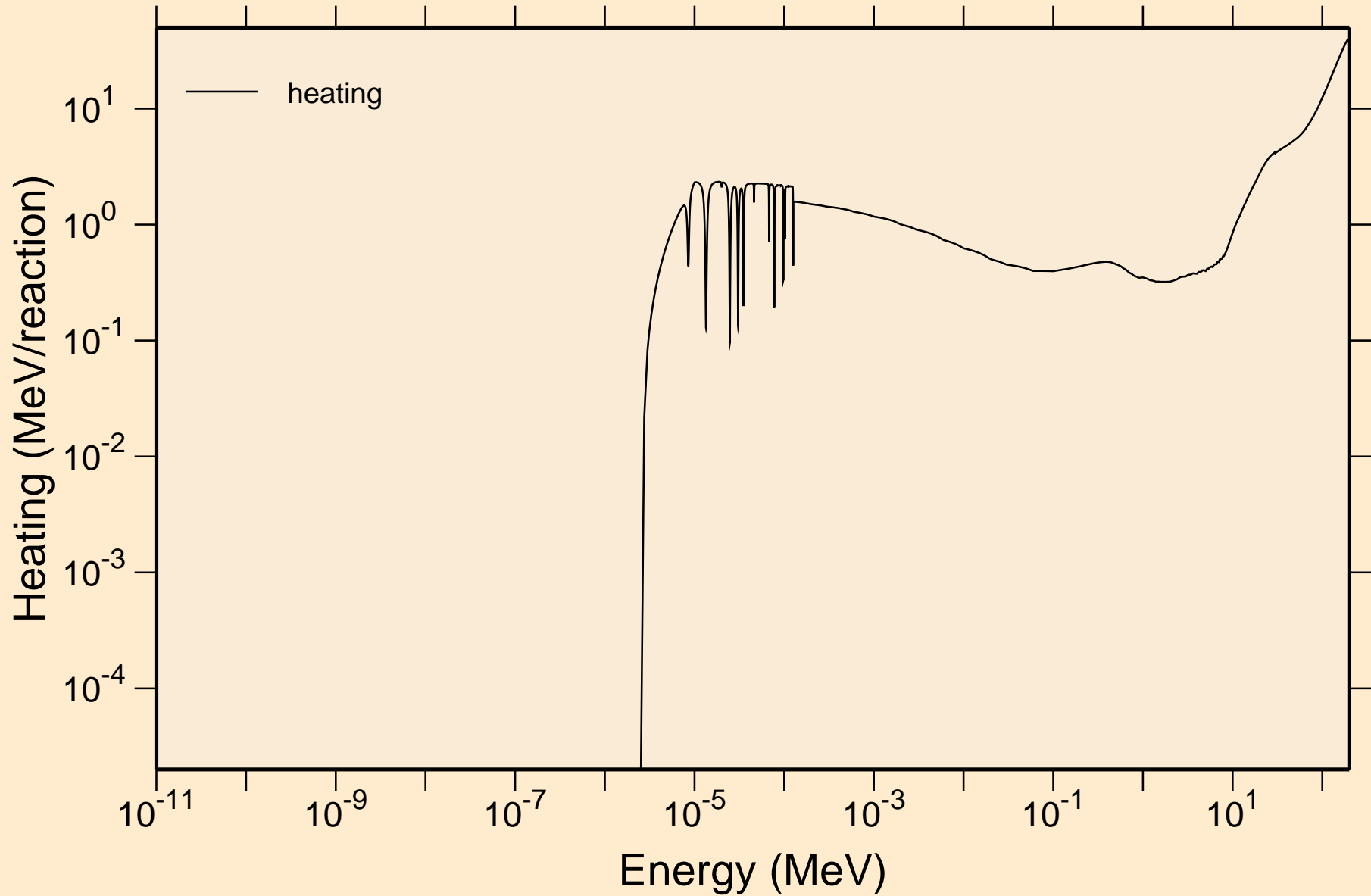


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



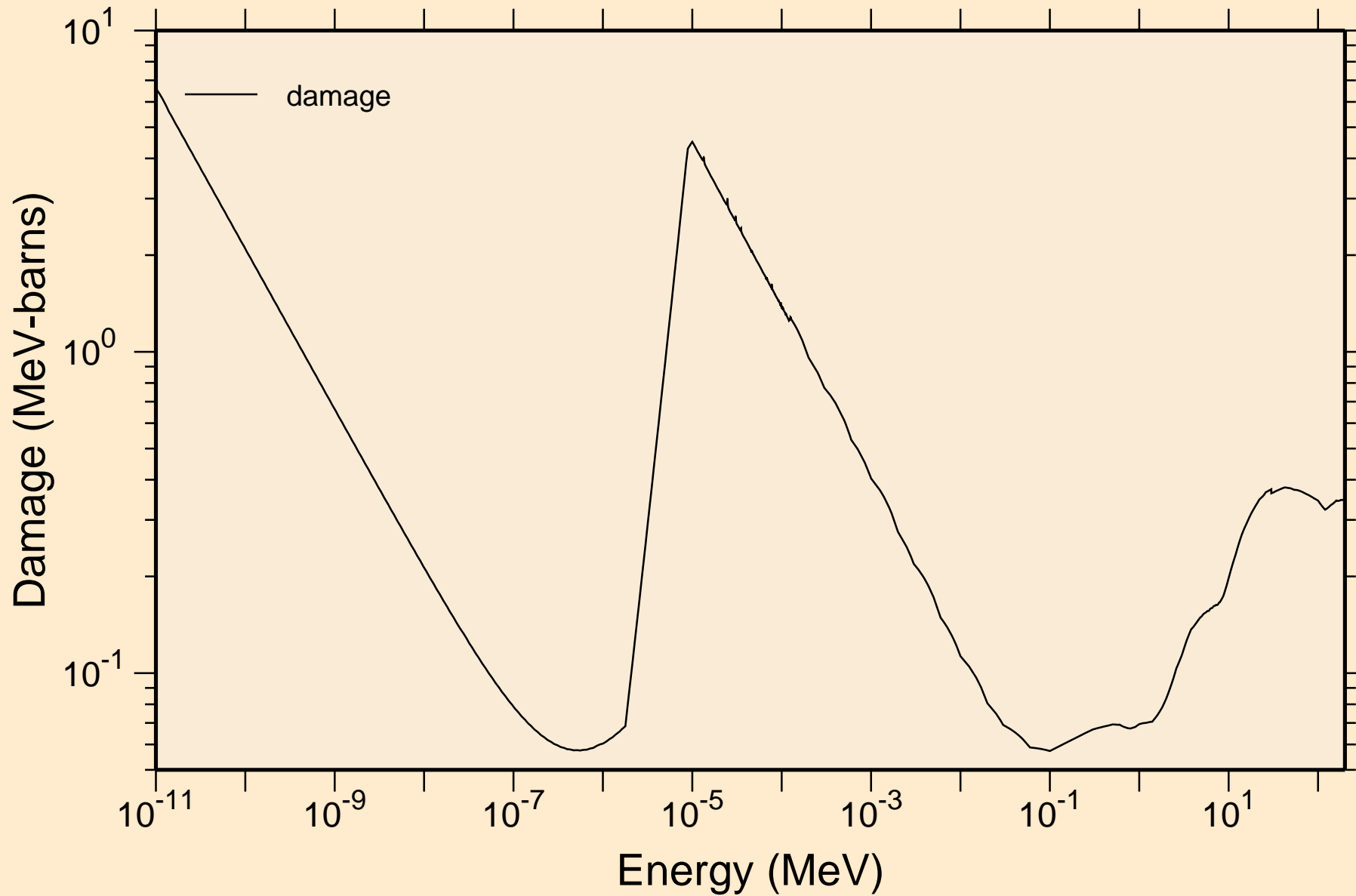
# AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

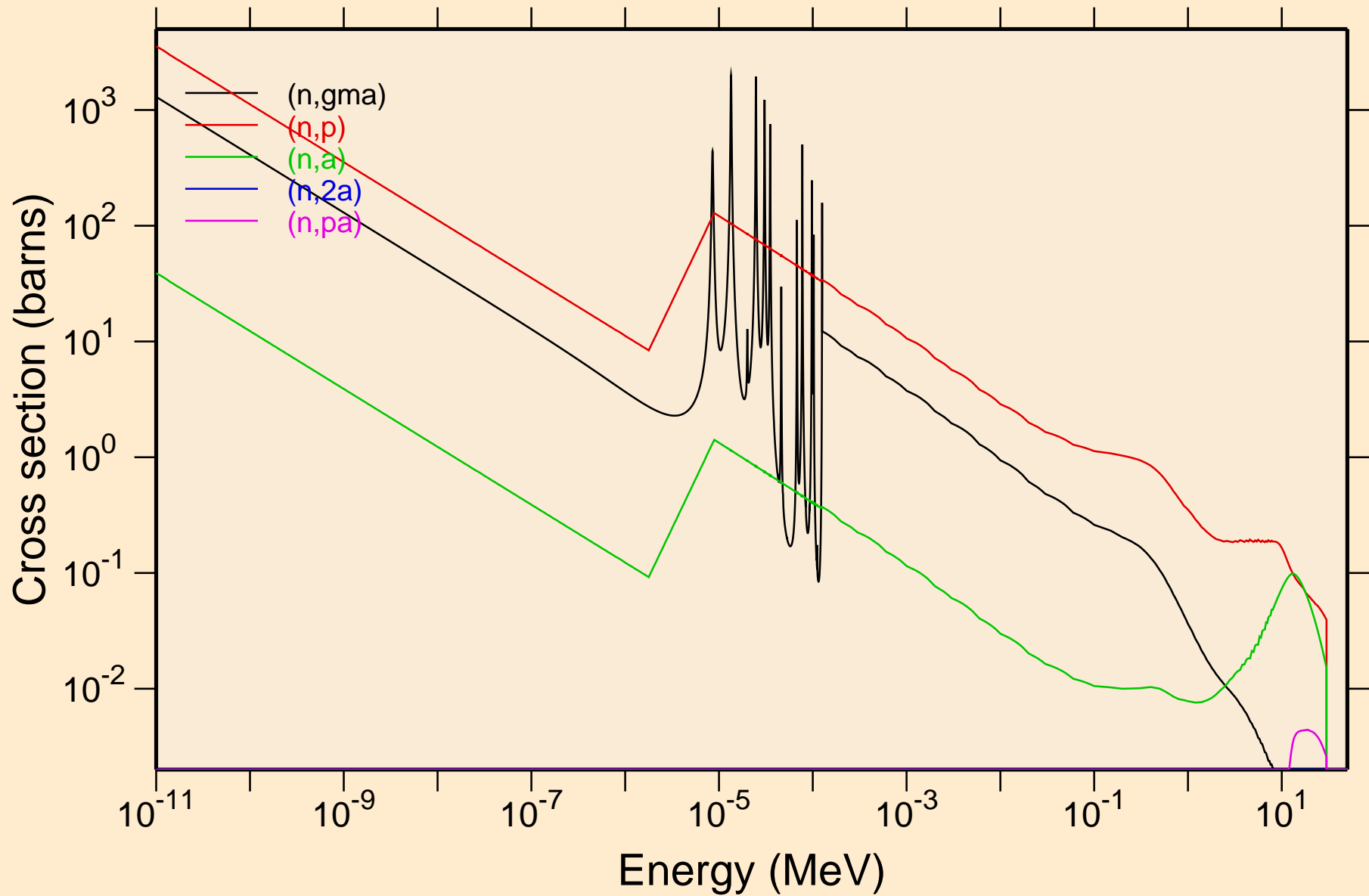


# AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

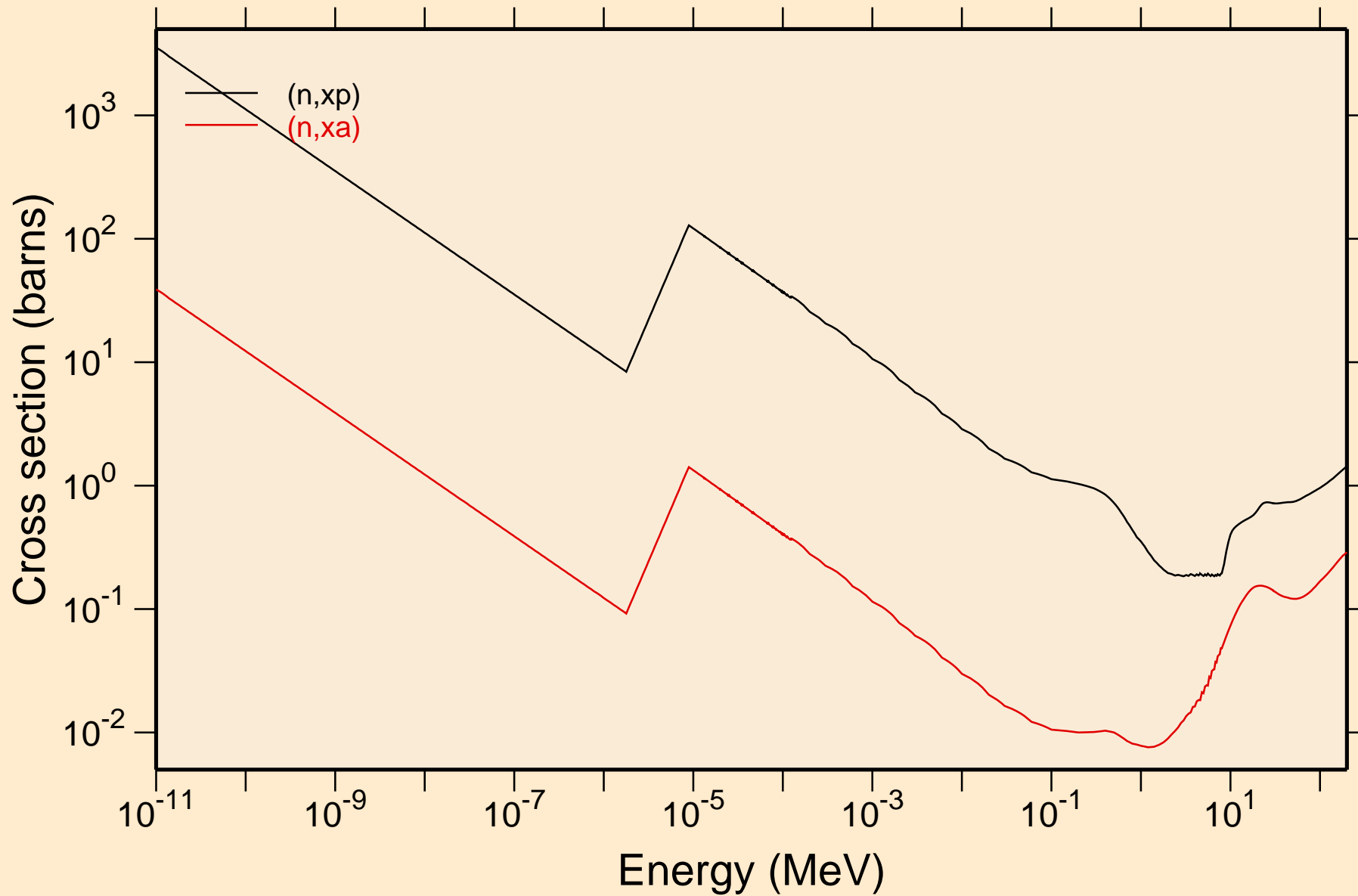
## Damage



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions

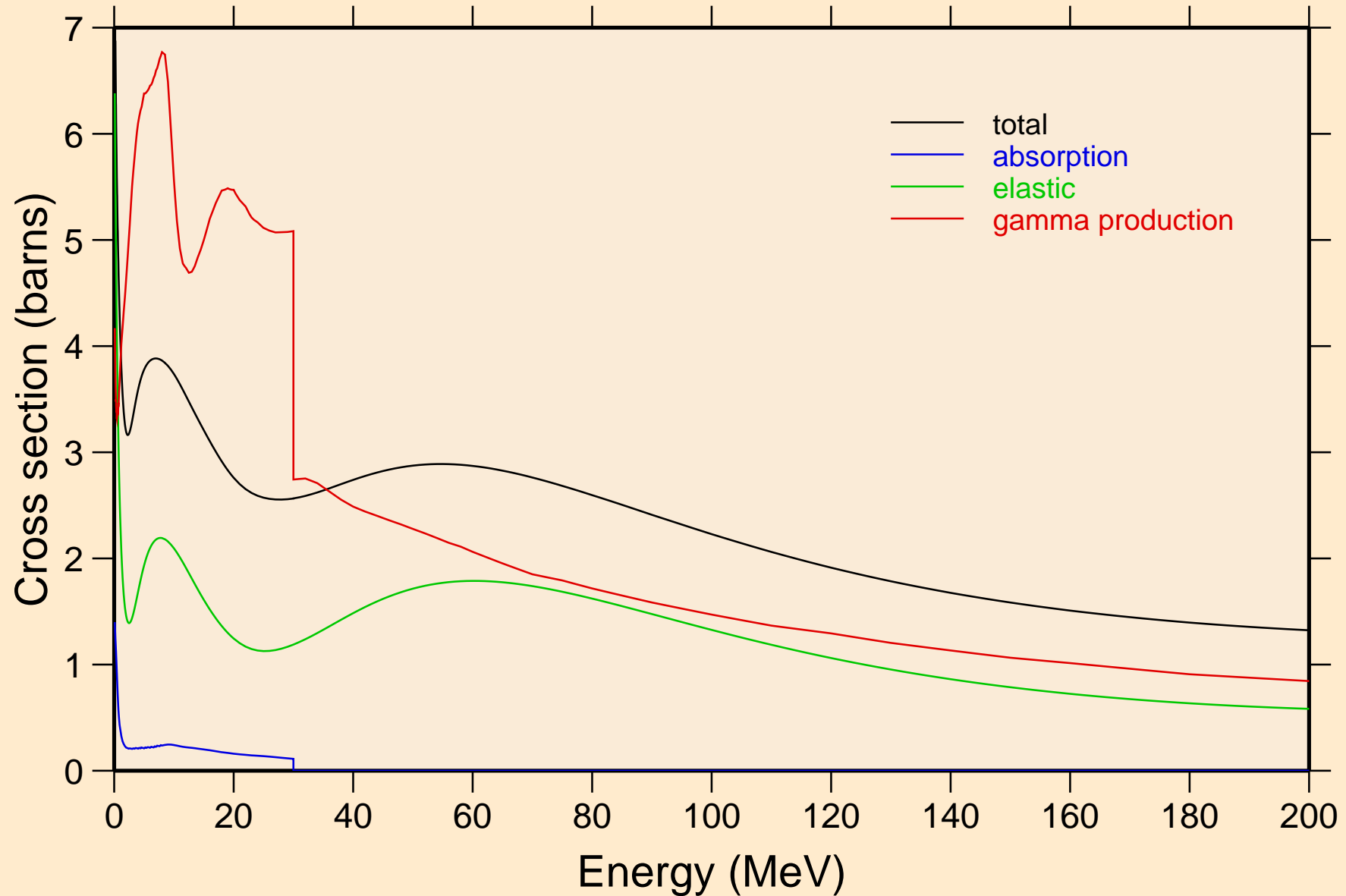


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



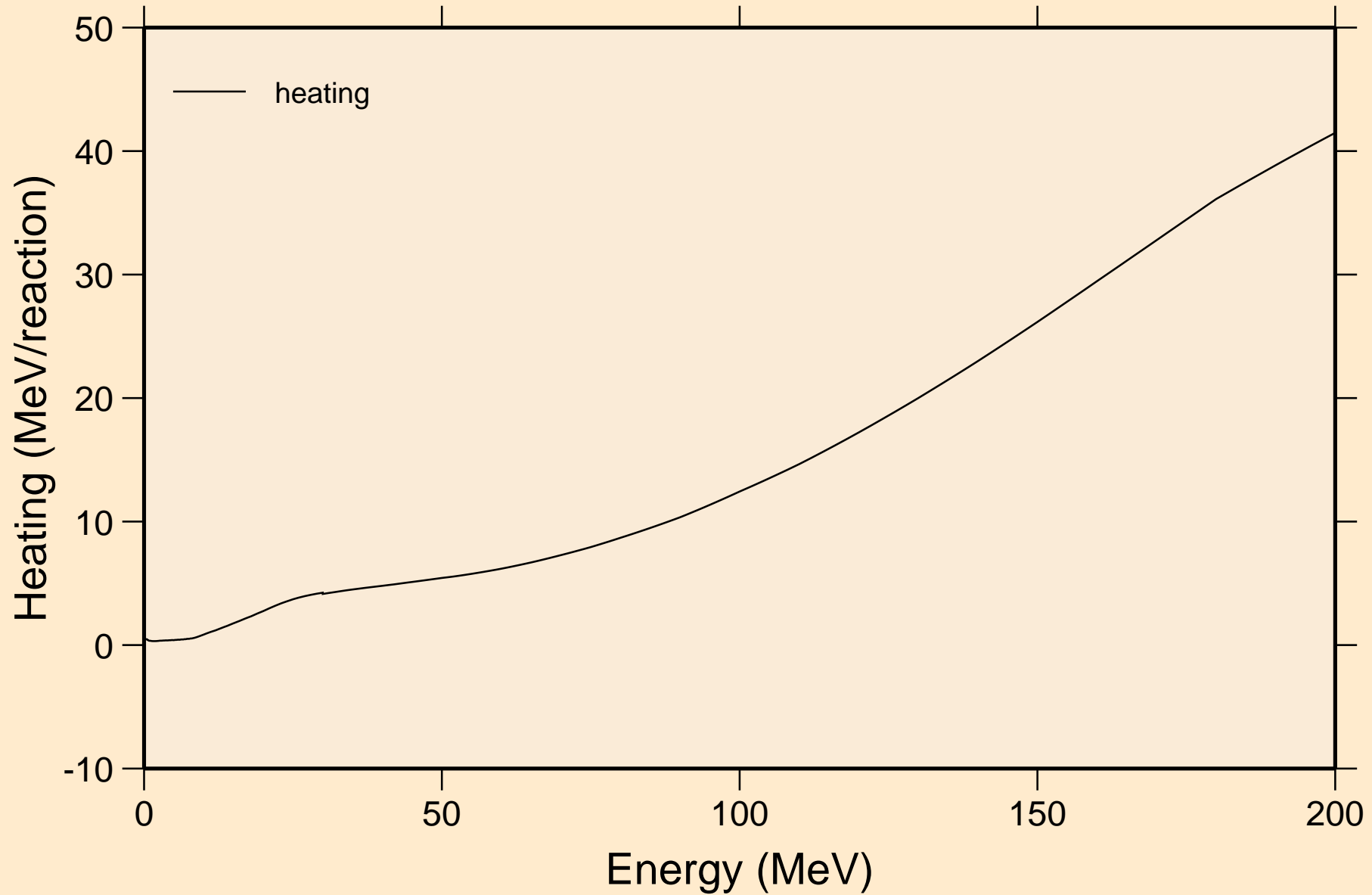
# AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



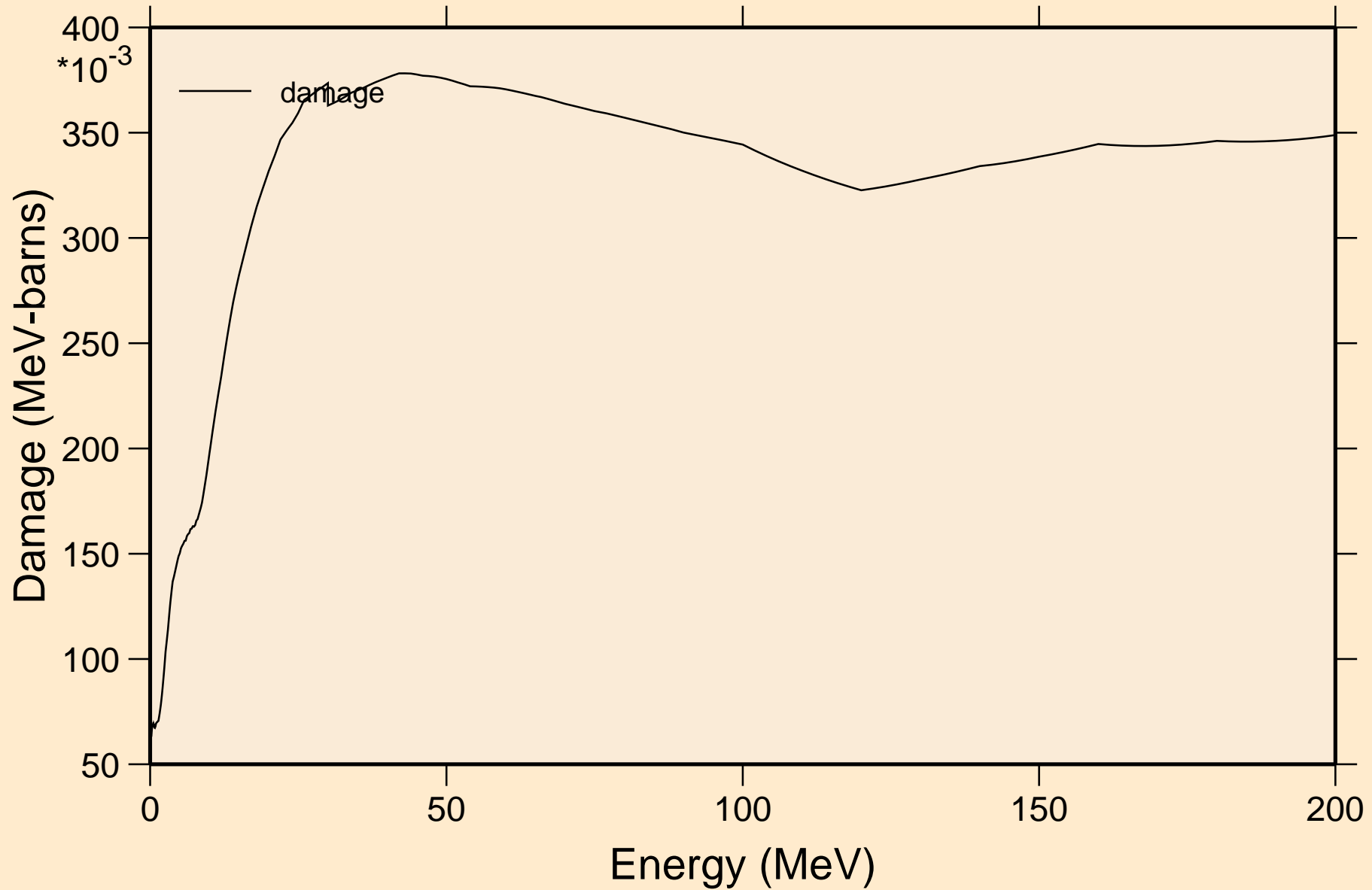
# AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating



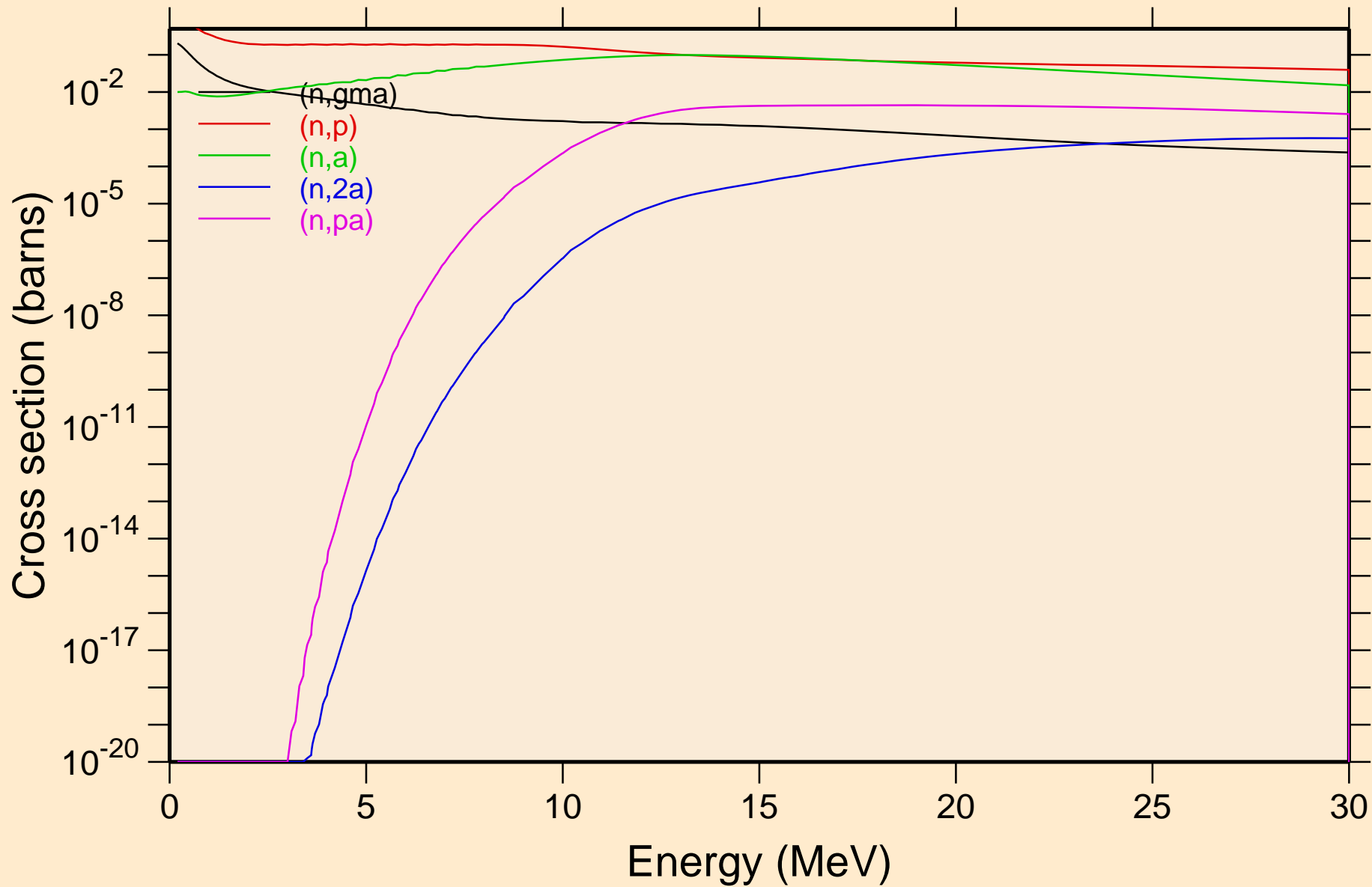
# AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Damage

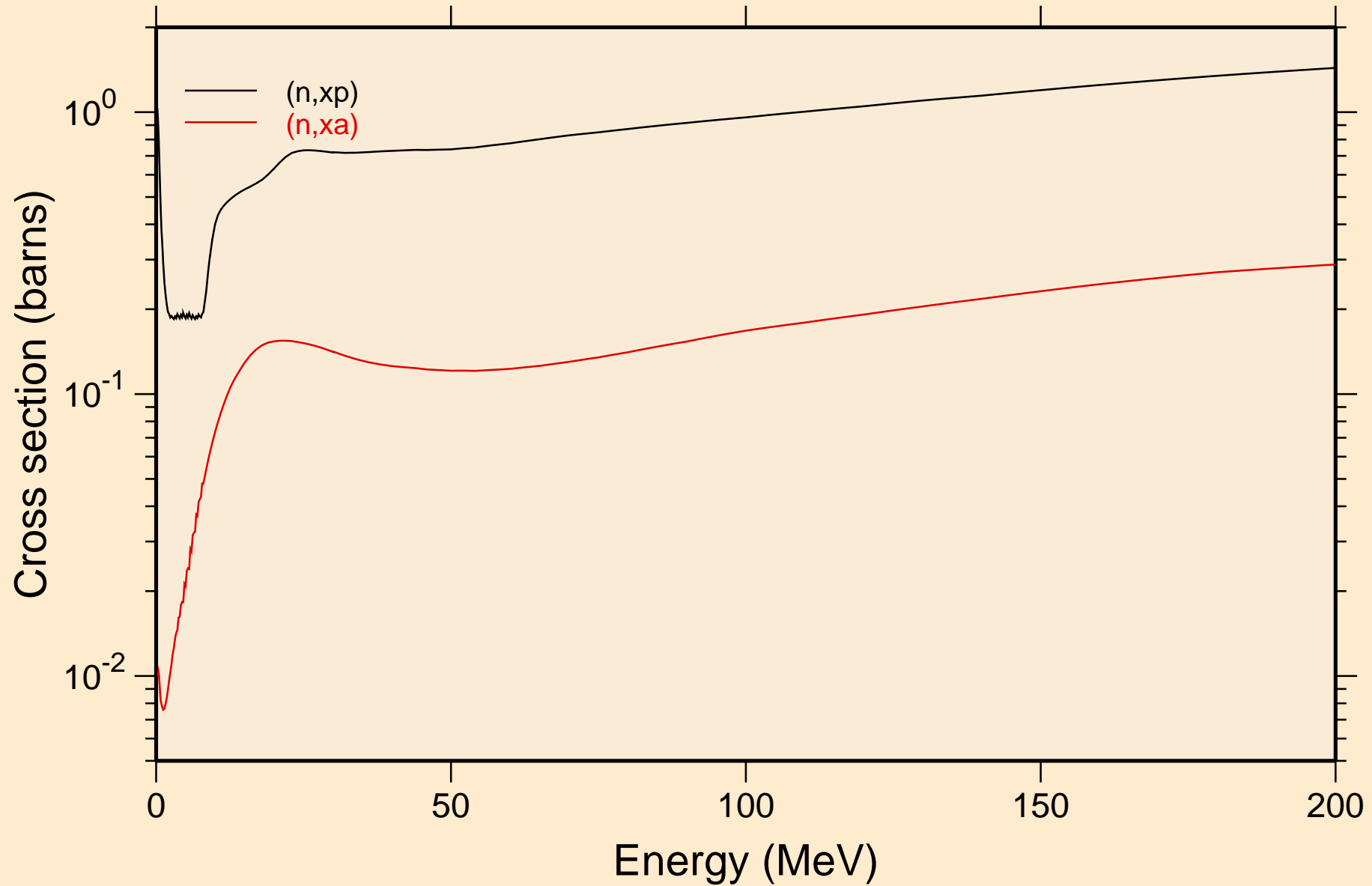




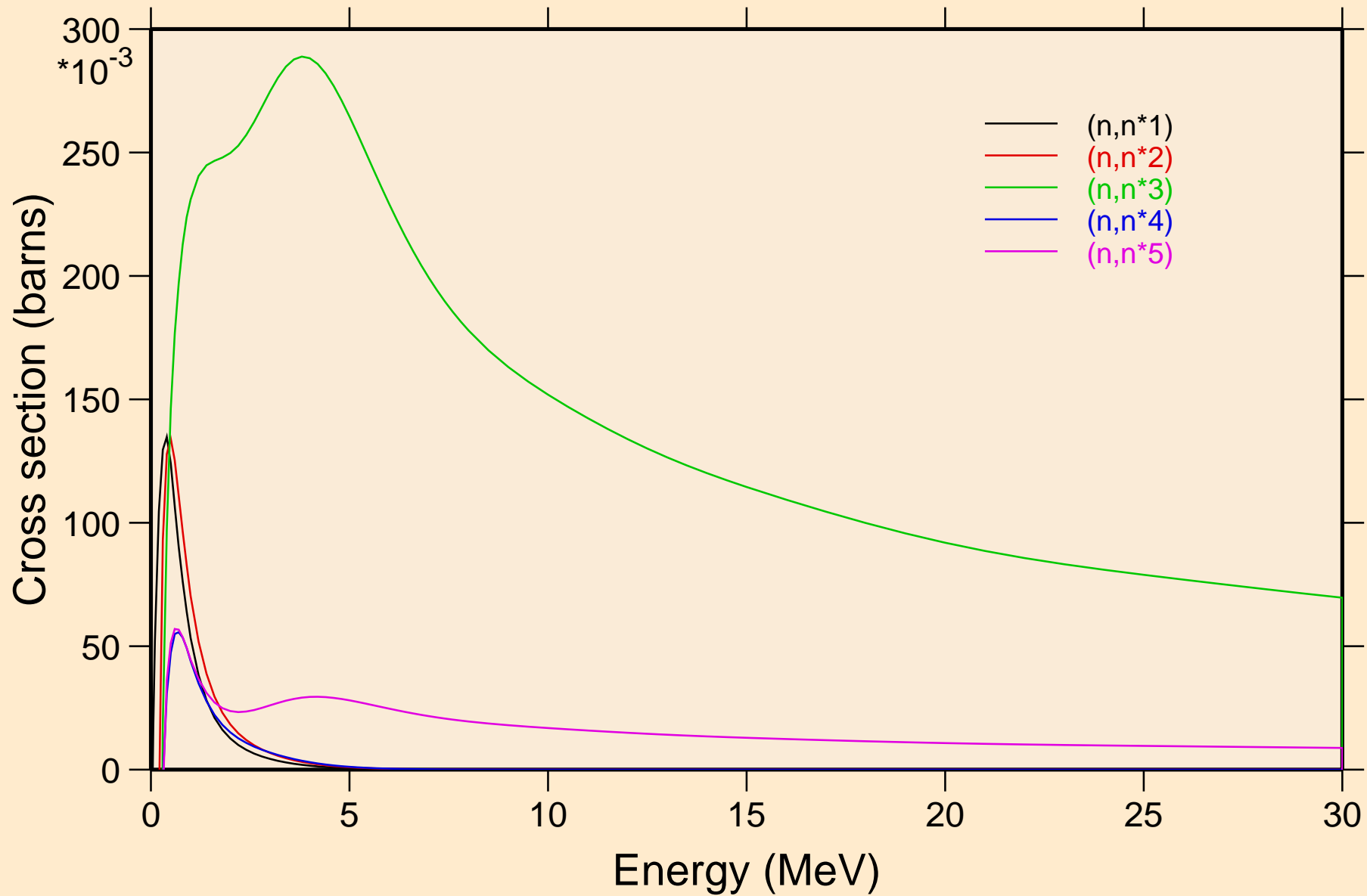
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



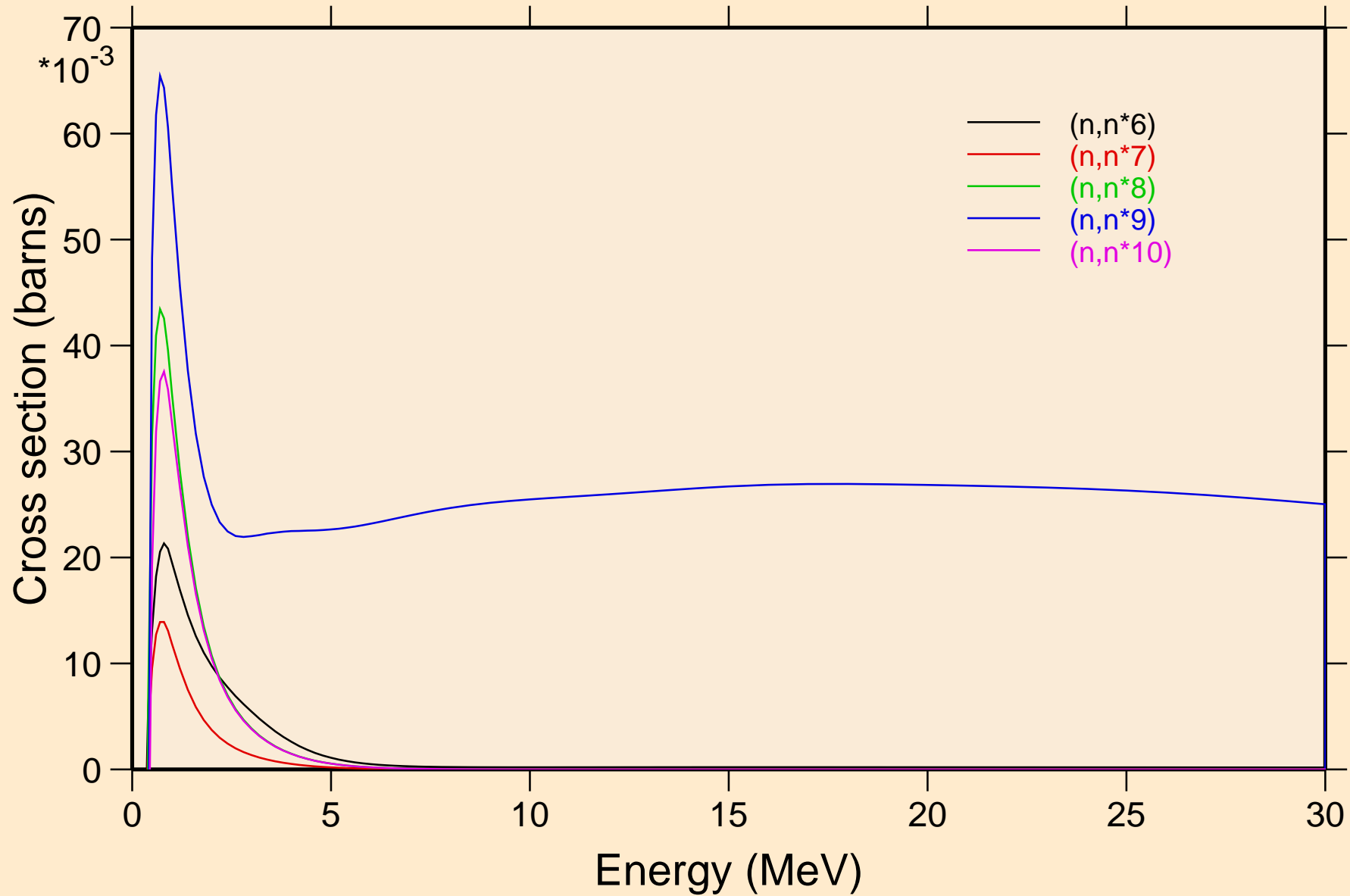
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



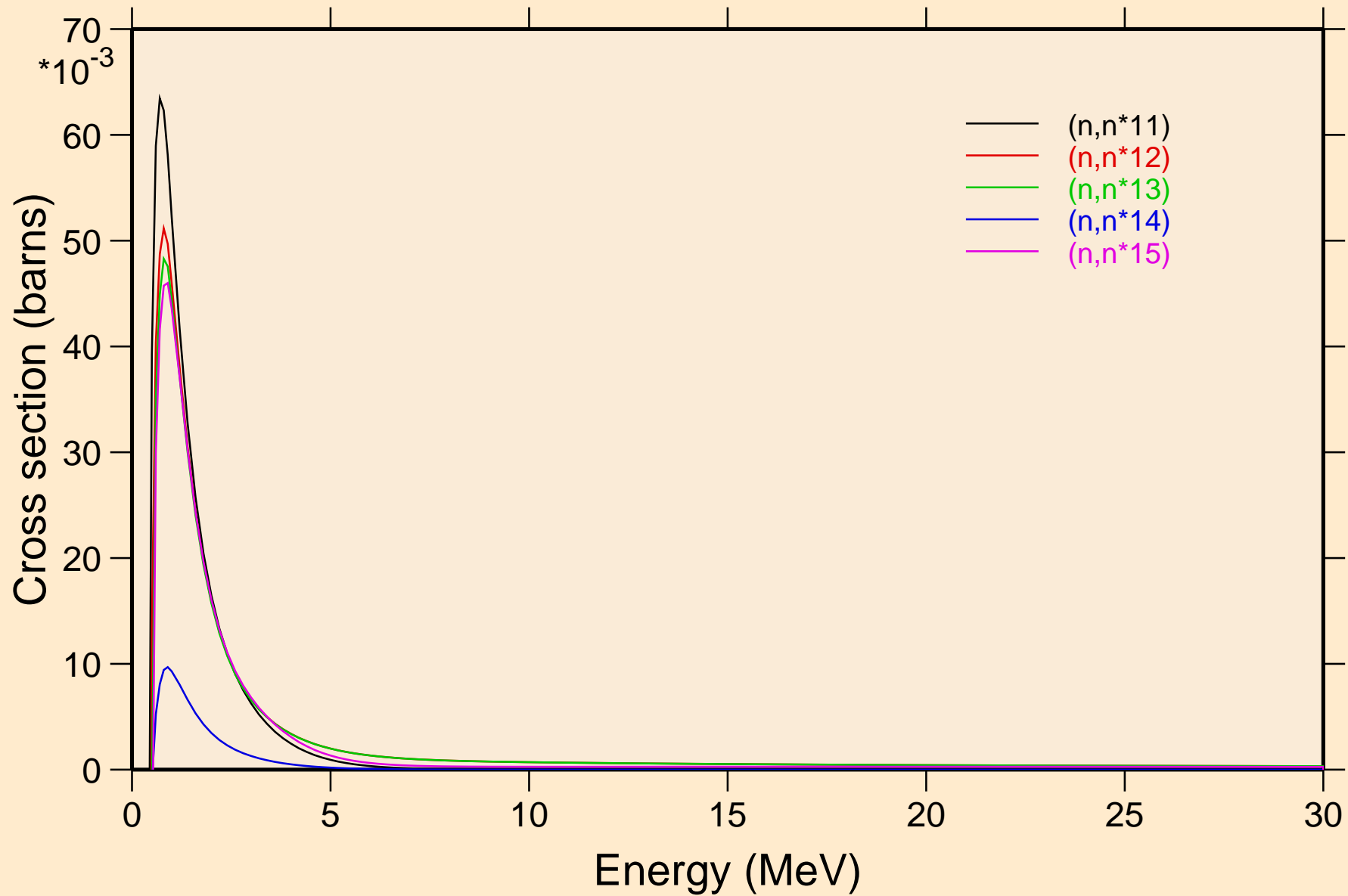
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



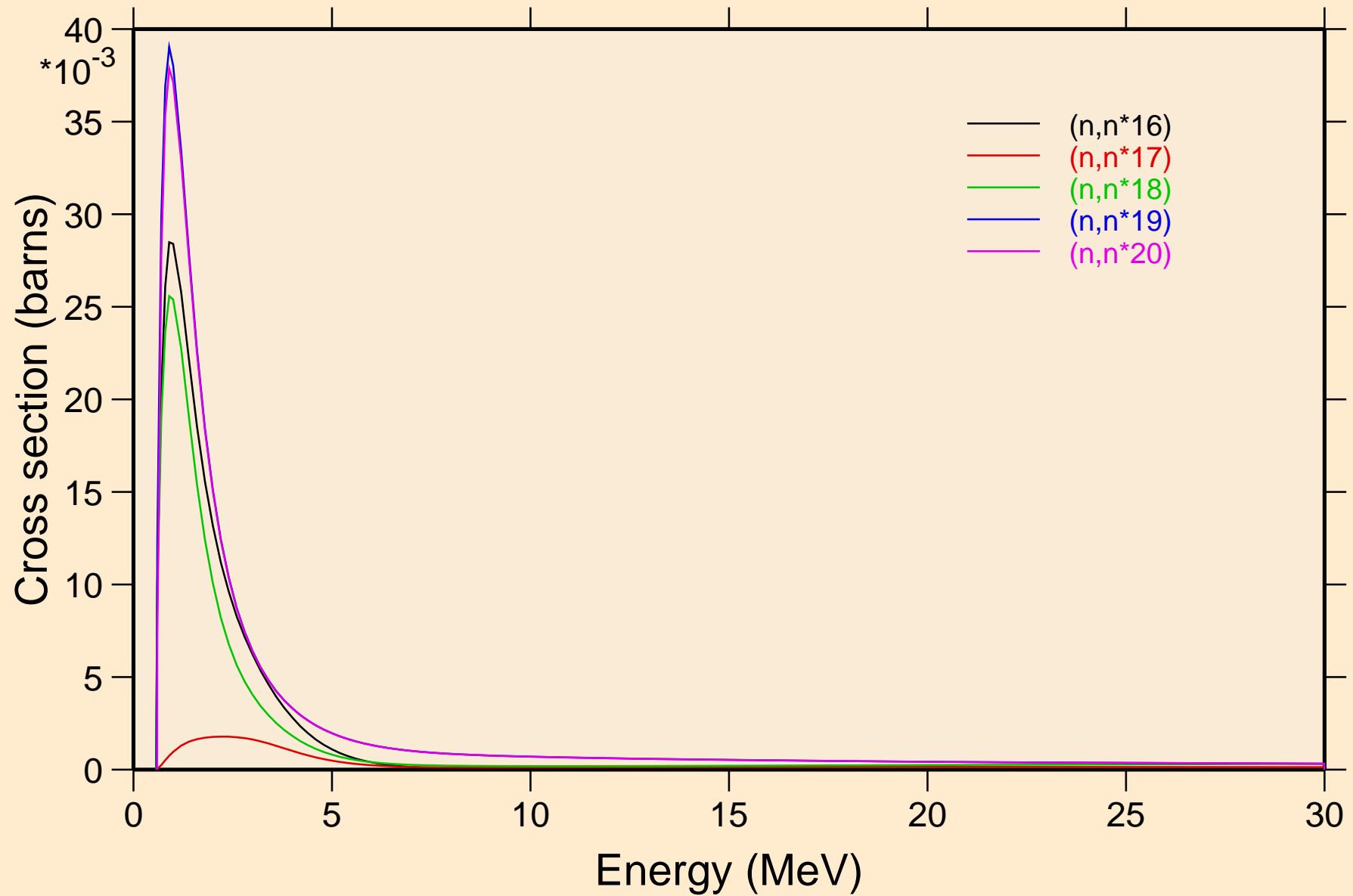
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



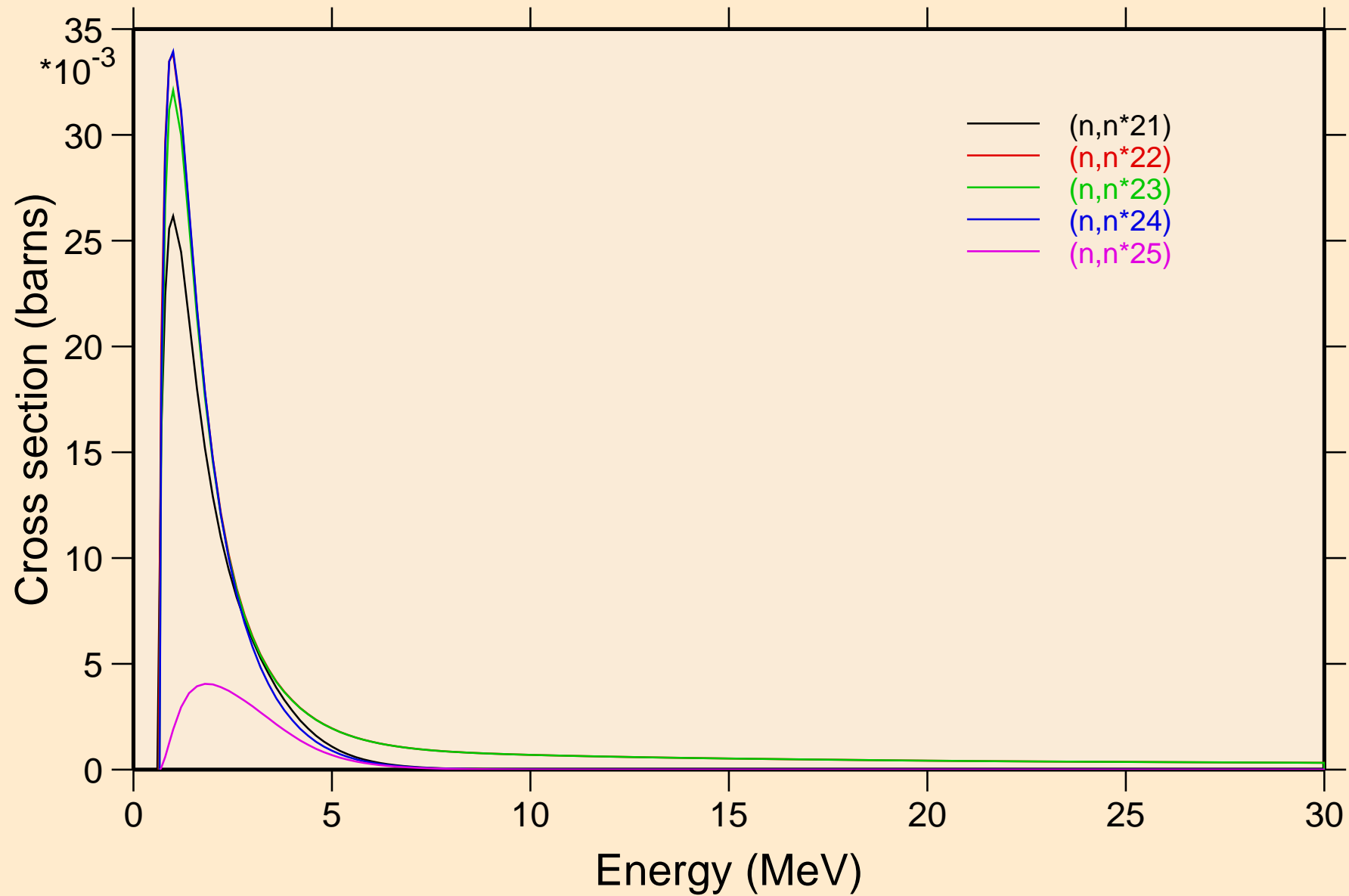
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



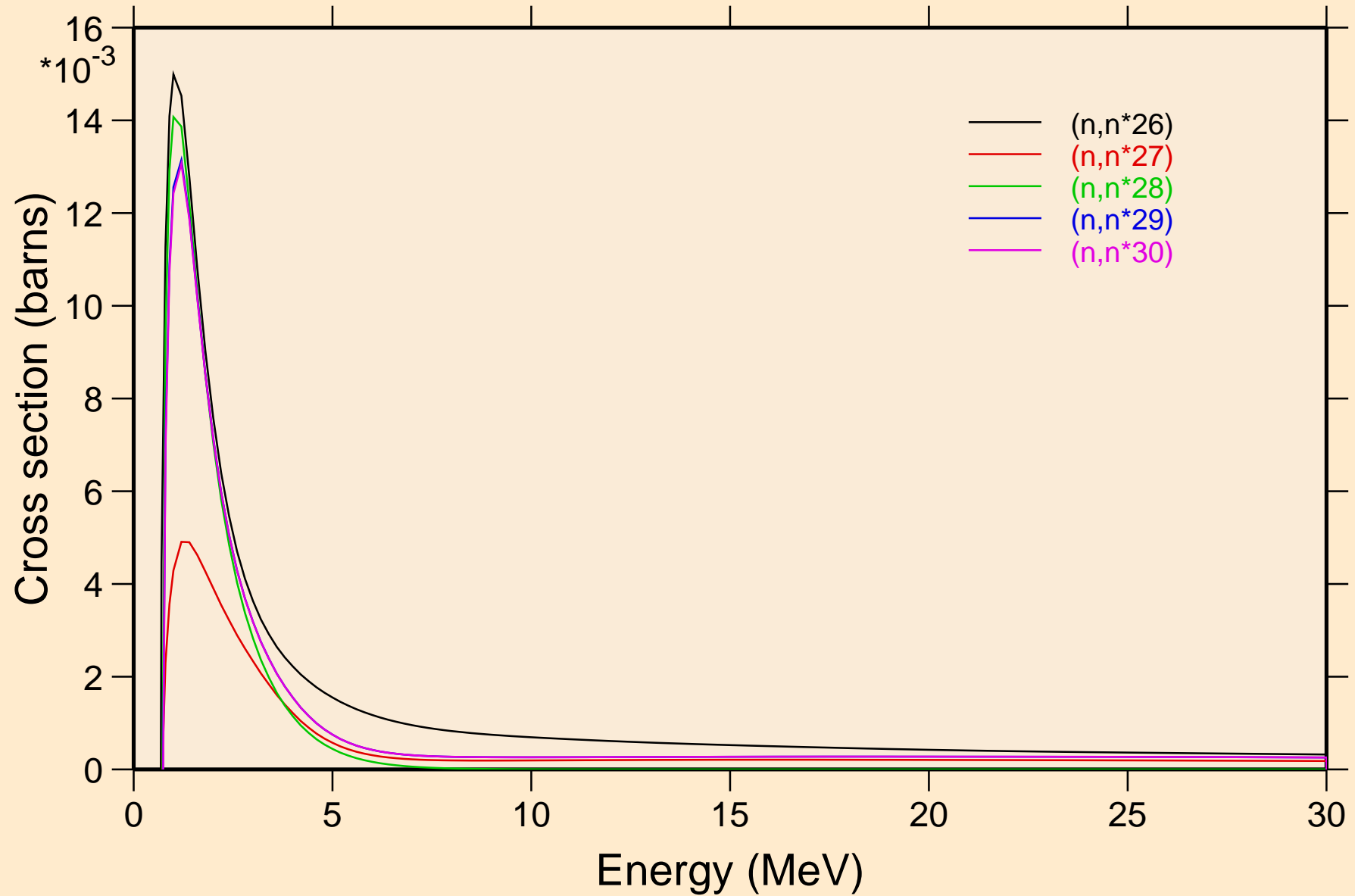
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

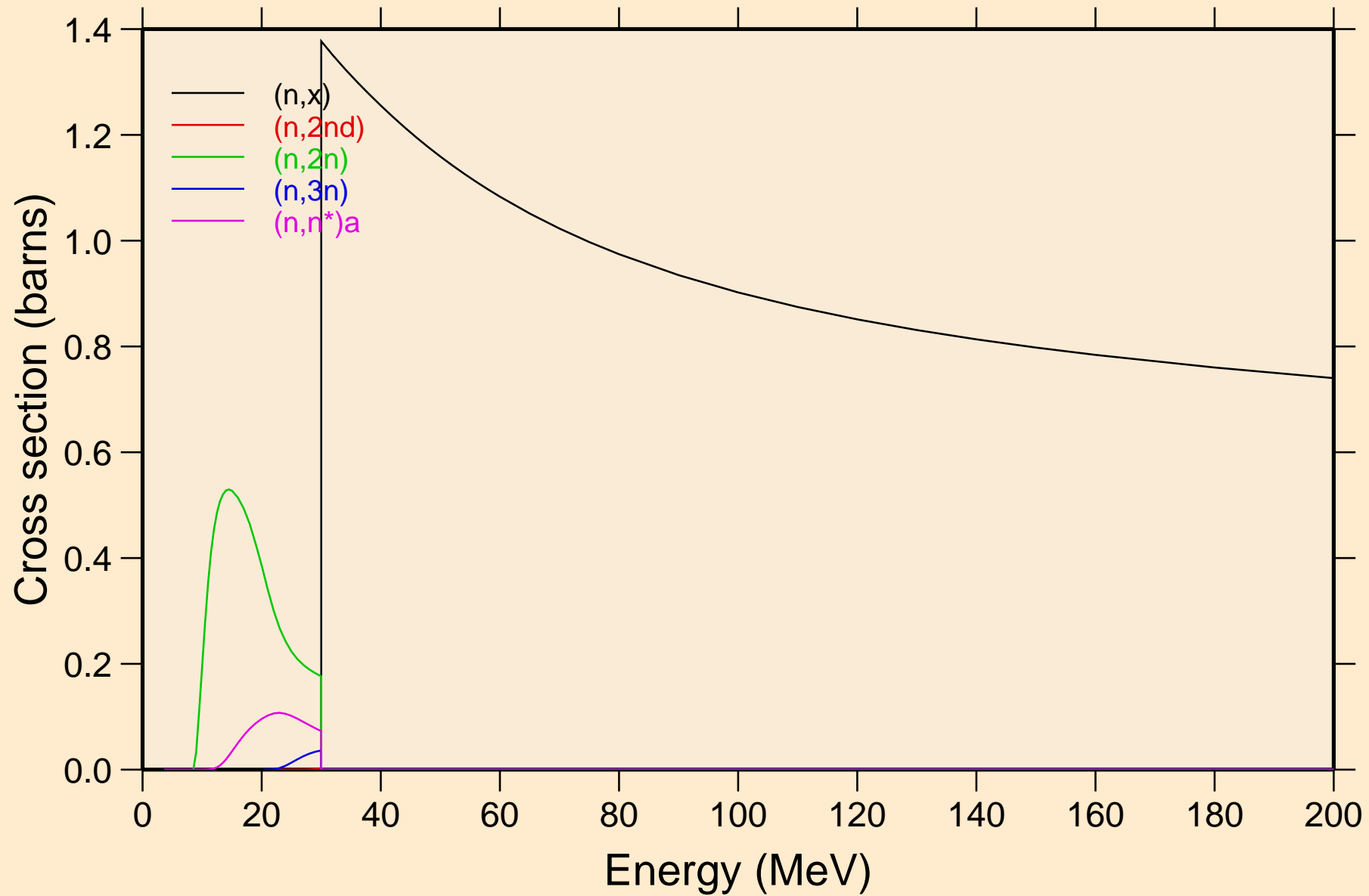


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

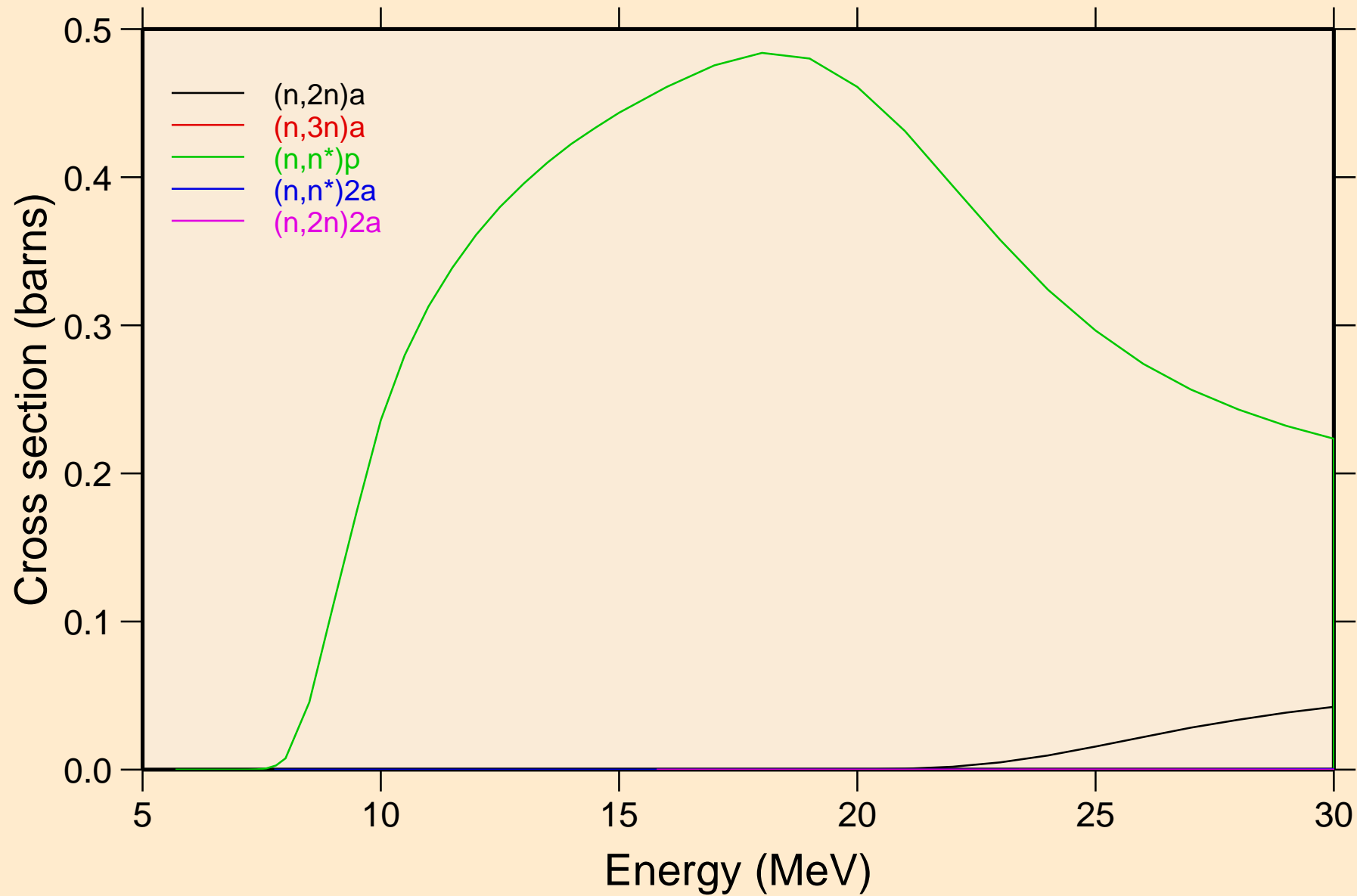




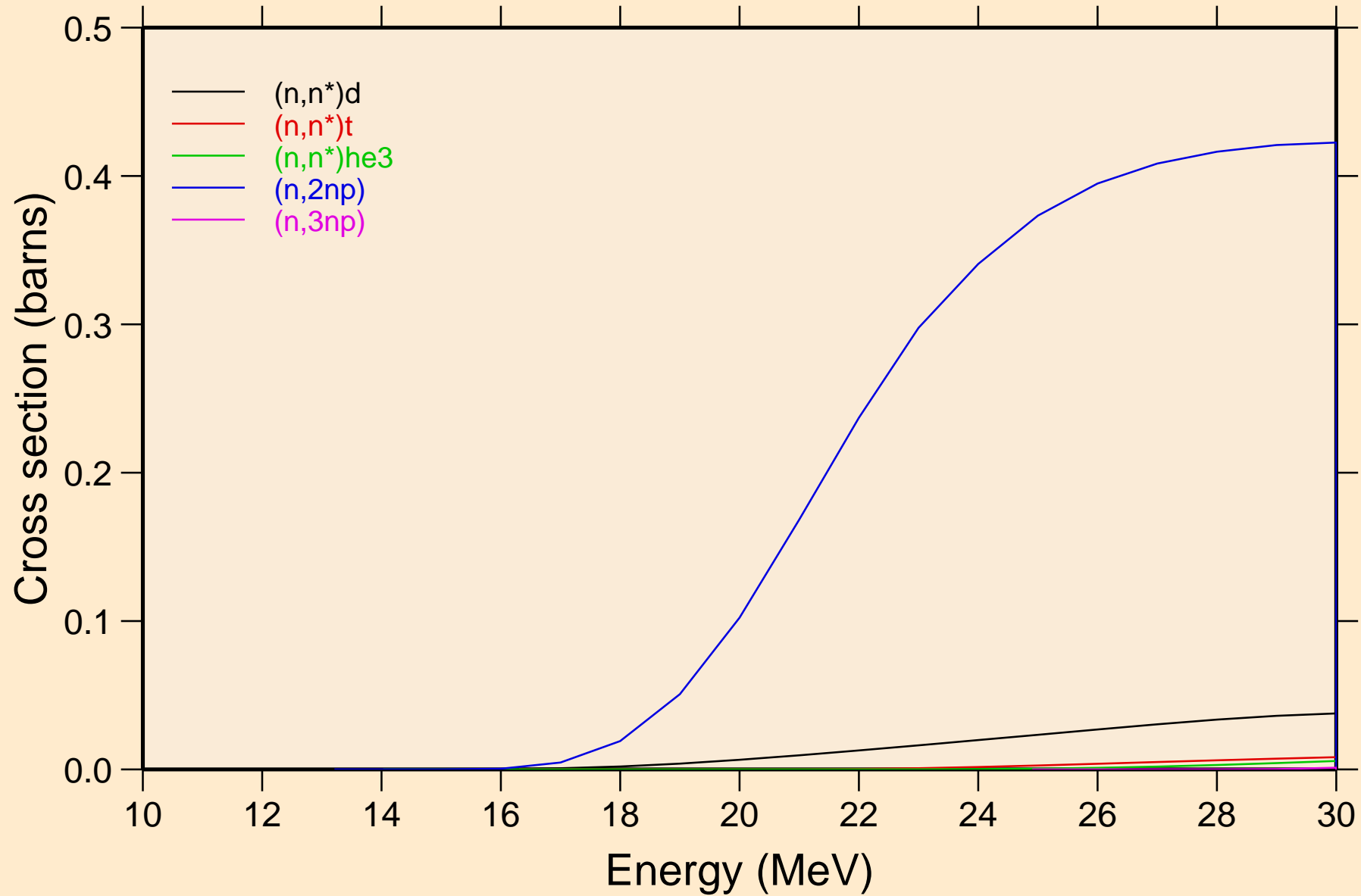
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Threshold reactions



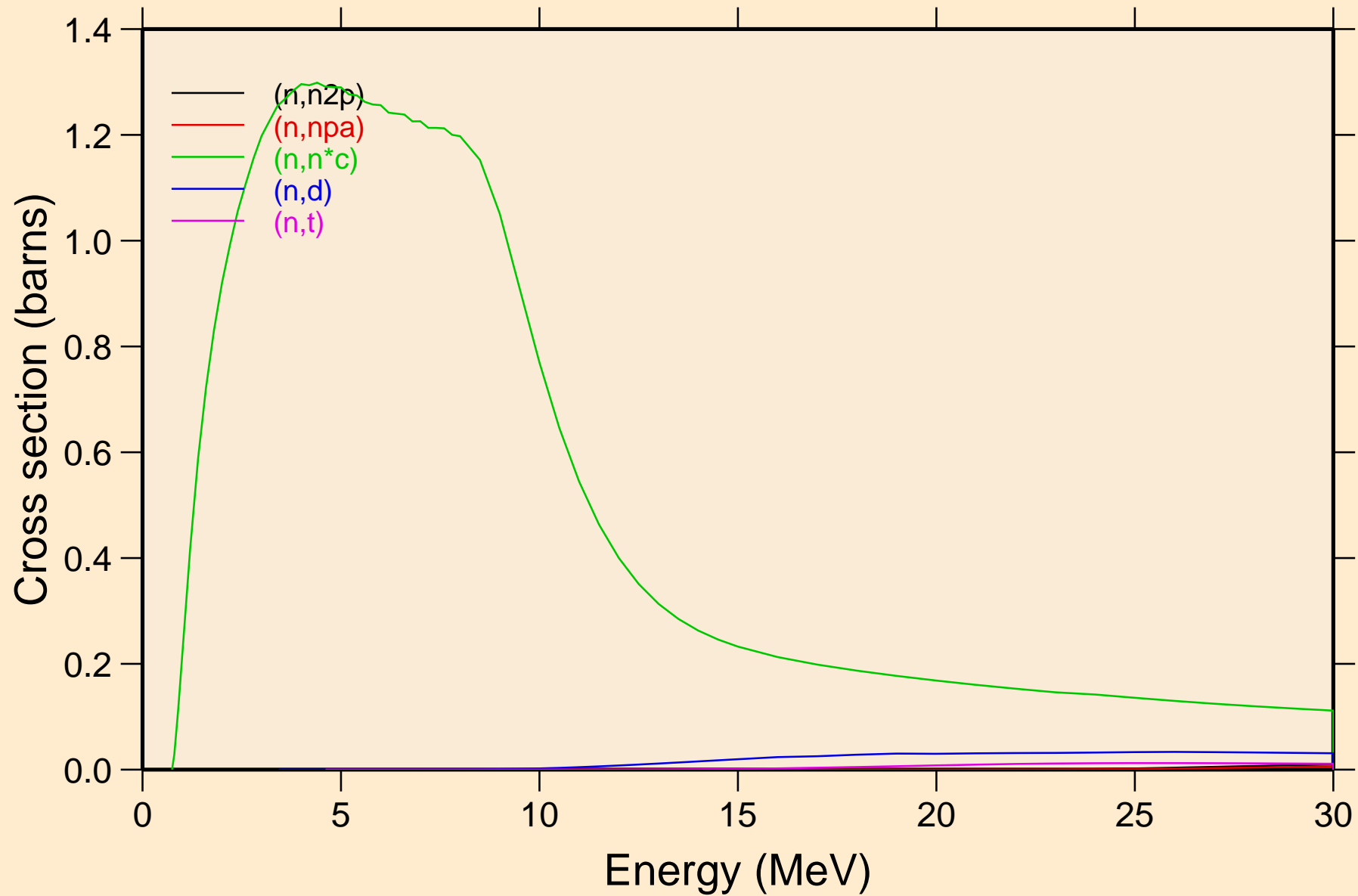
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



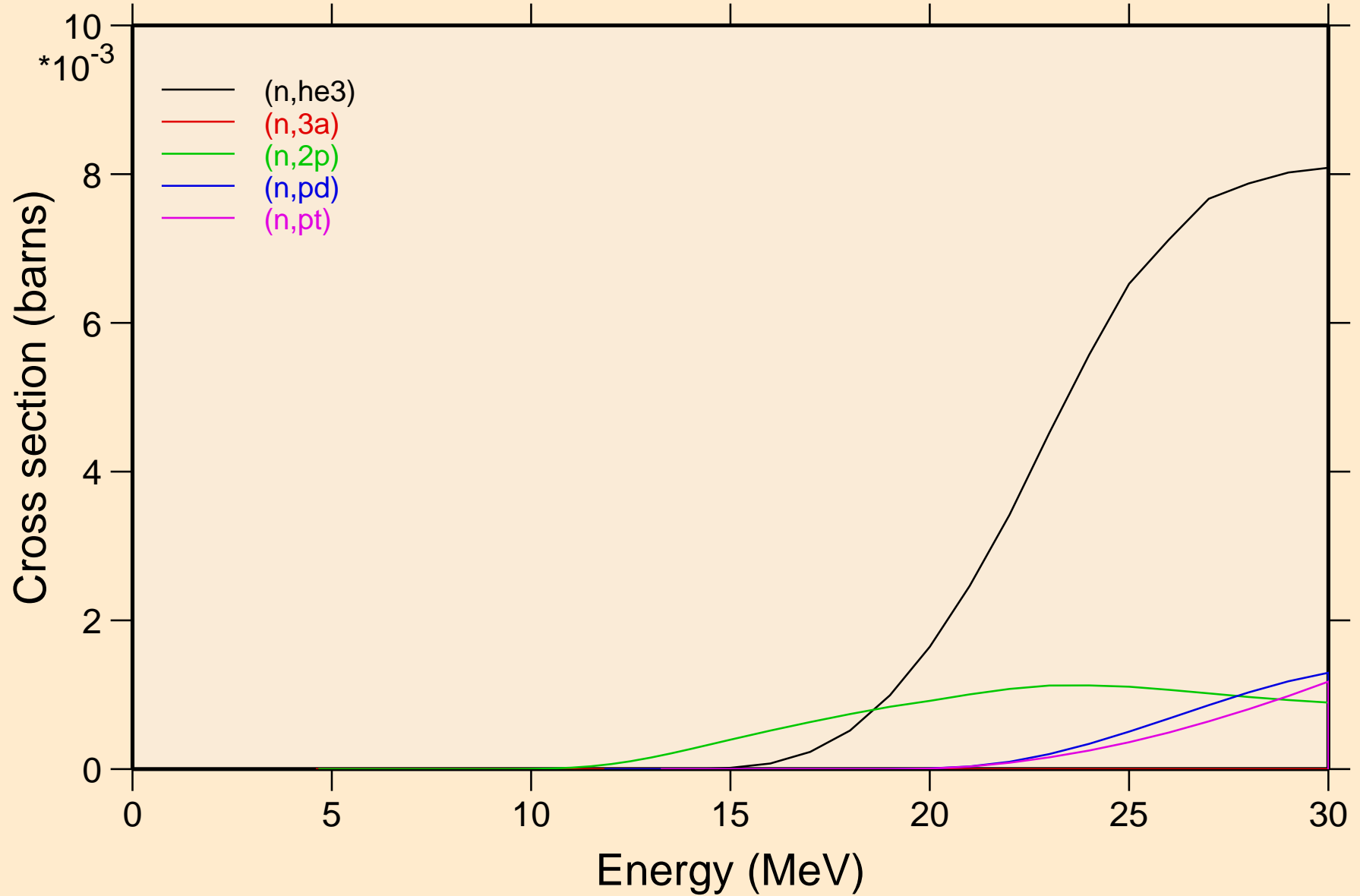
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



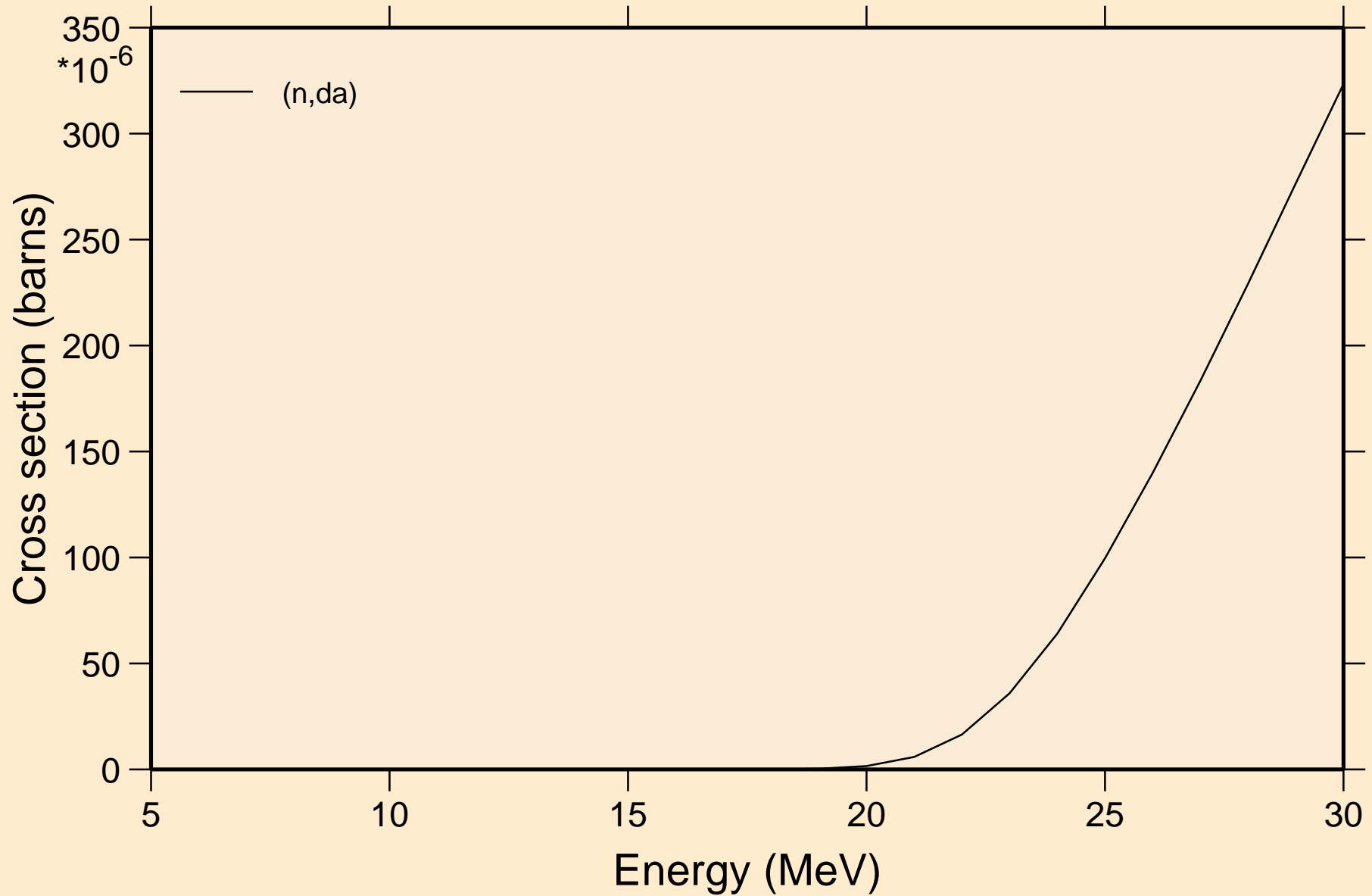
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

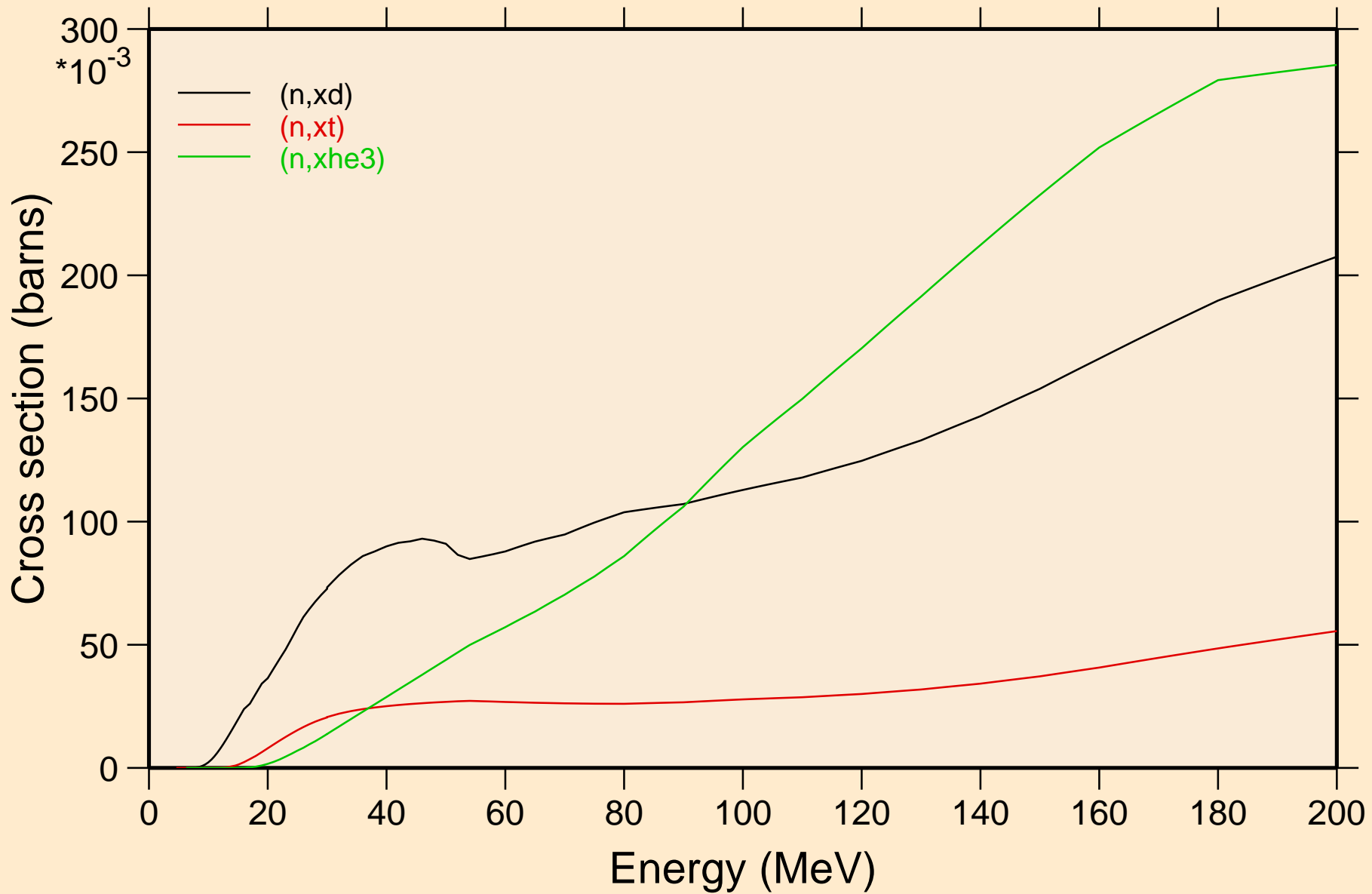


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

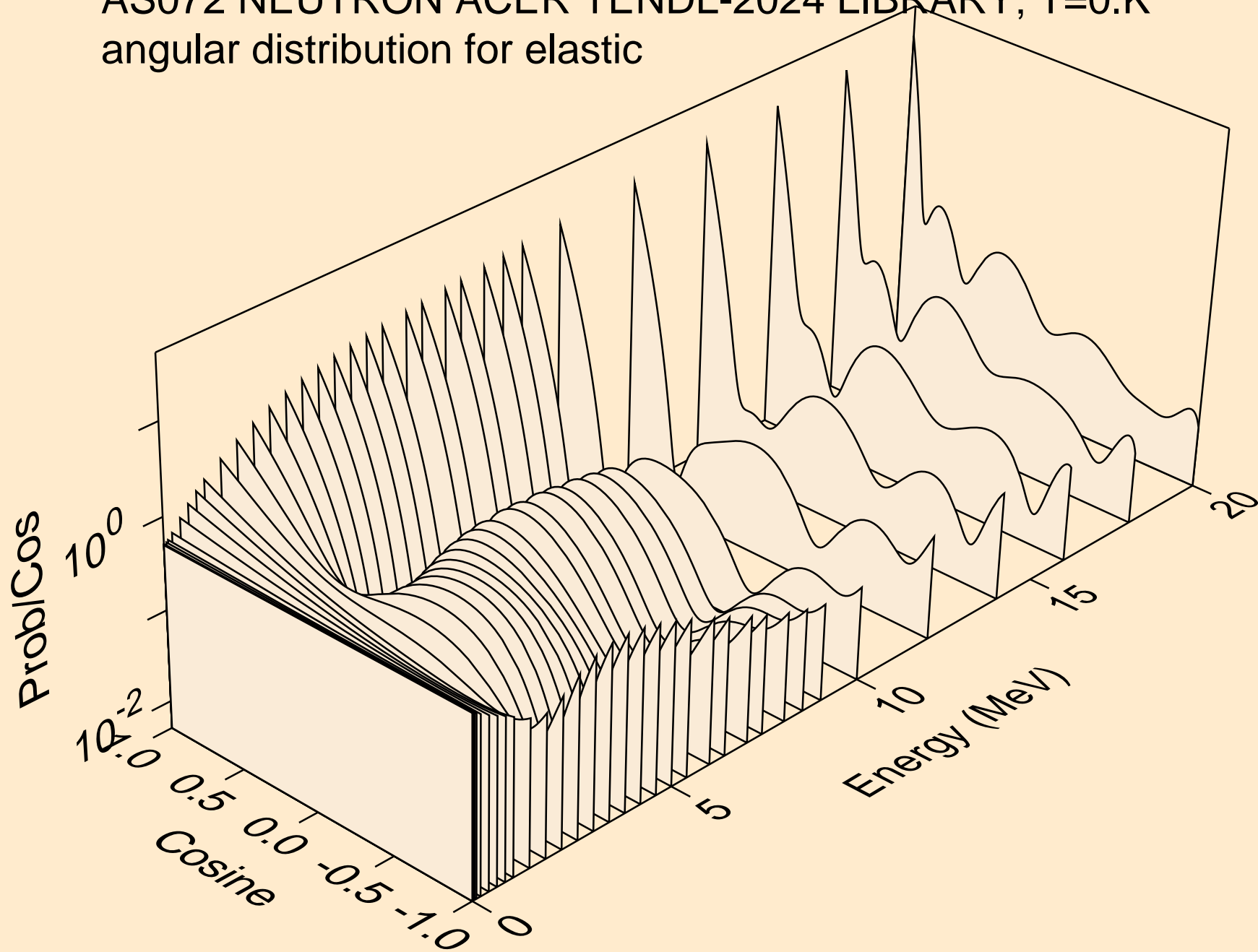


# AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions

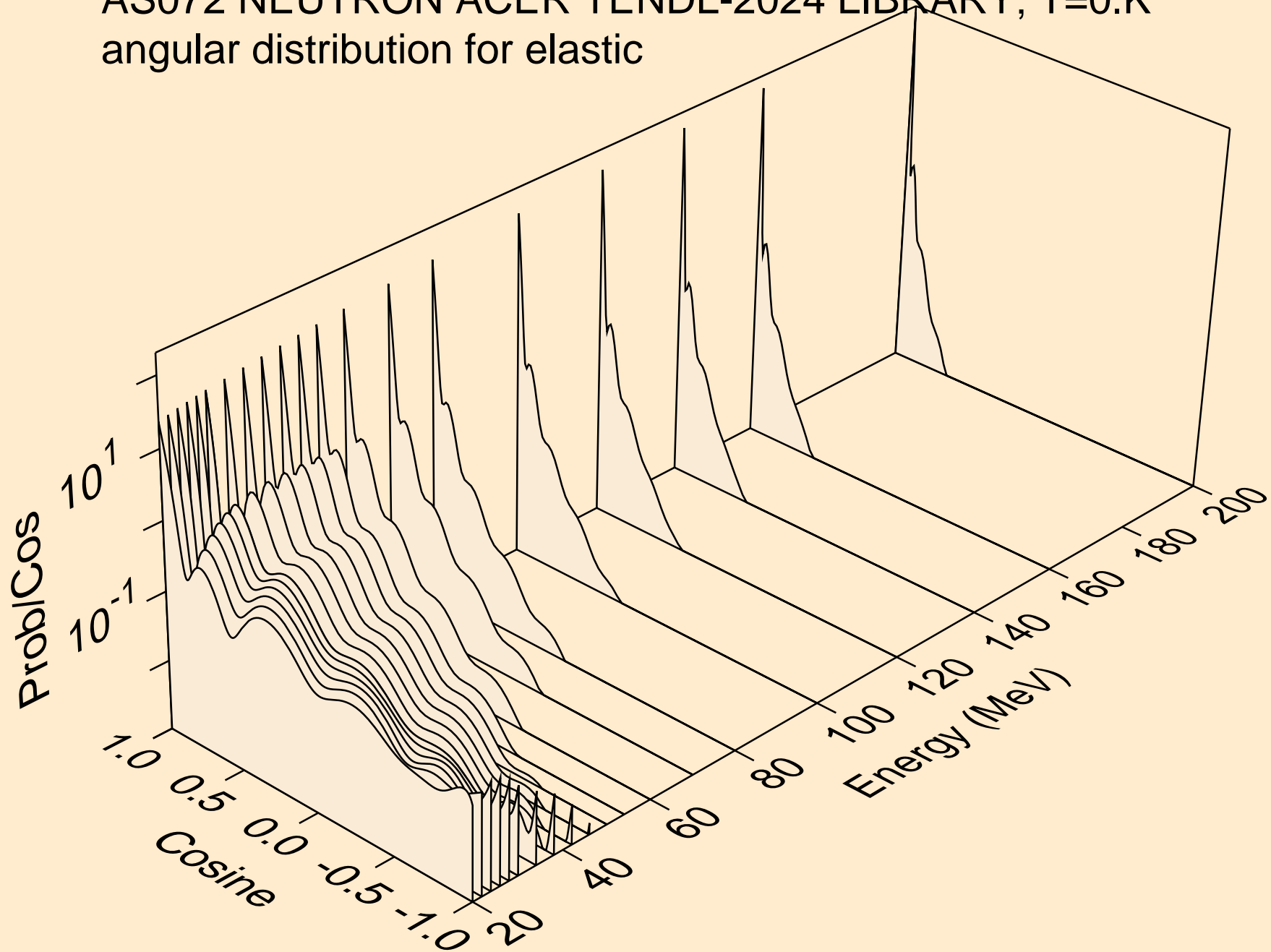


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic

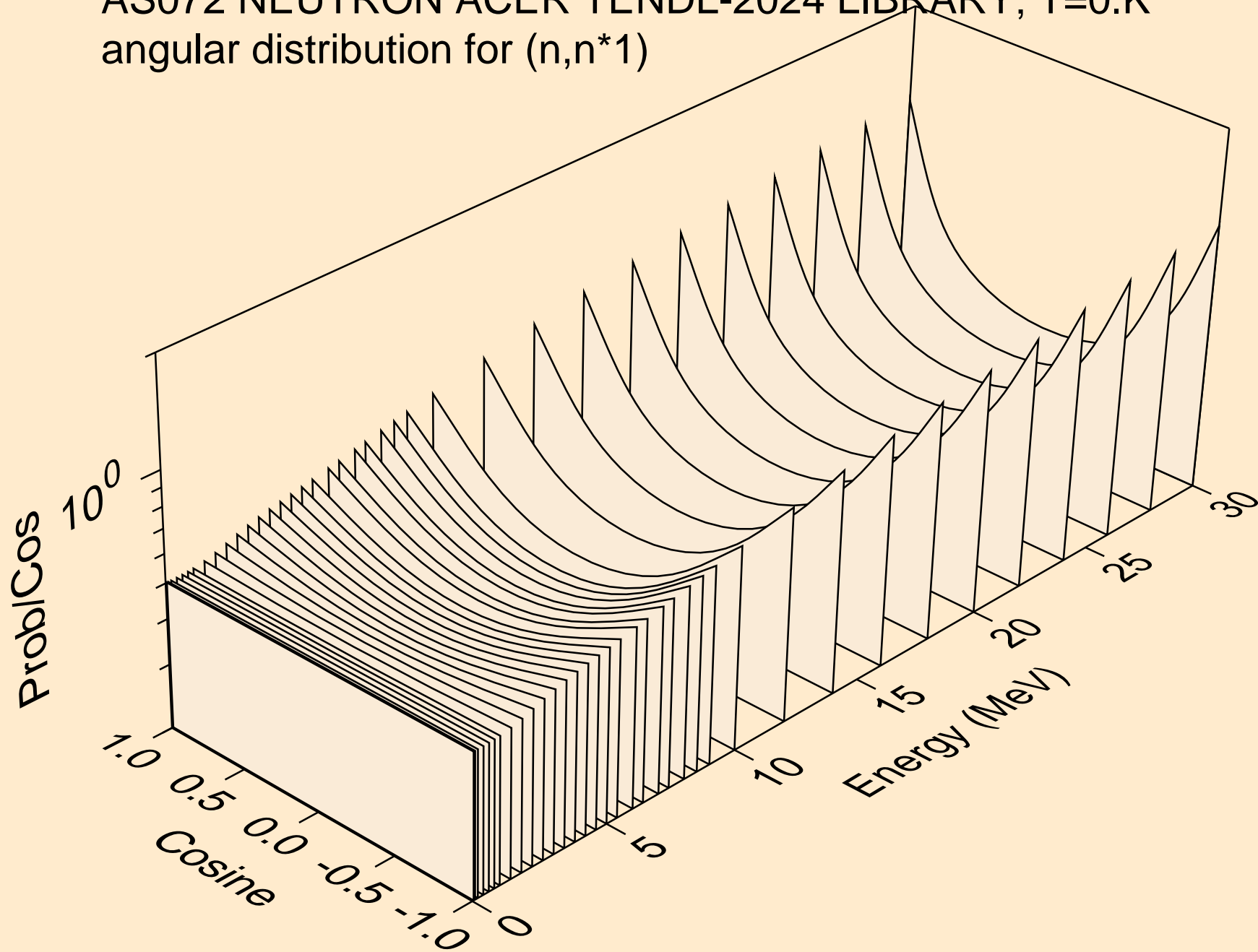




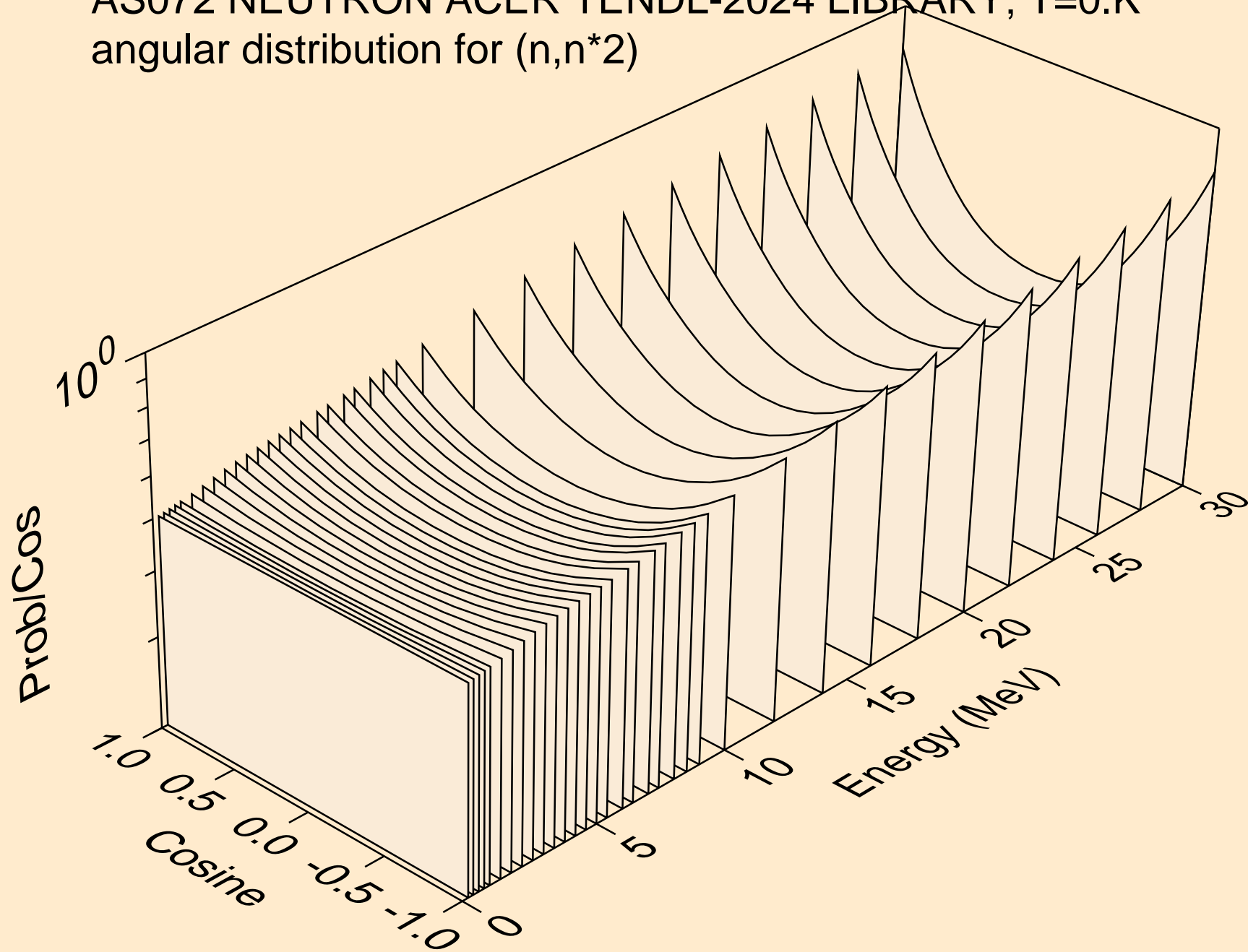
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



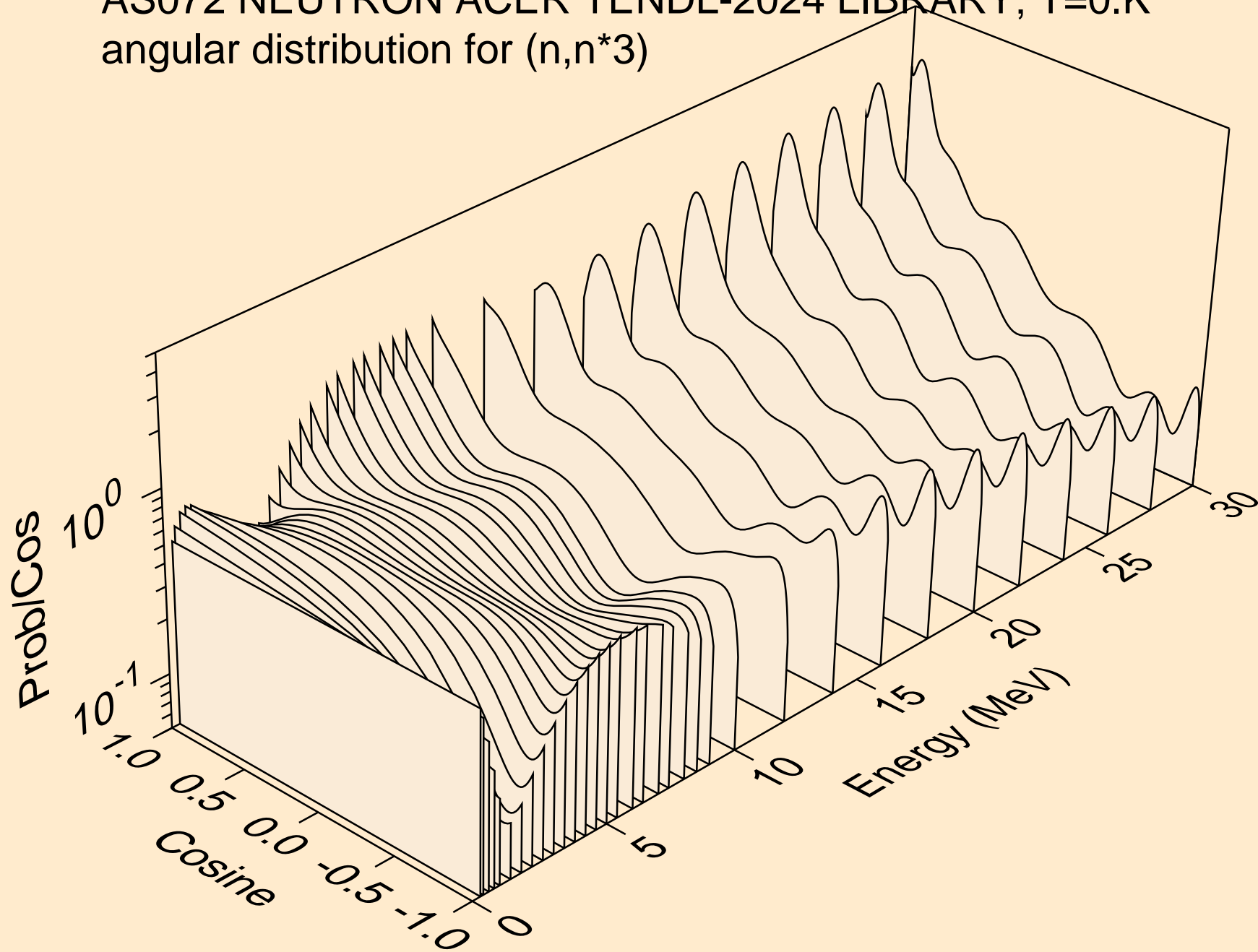
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



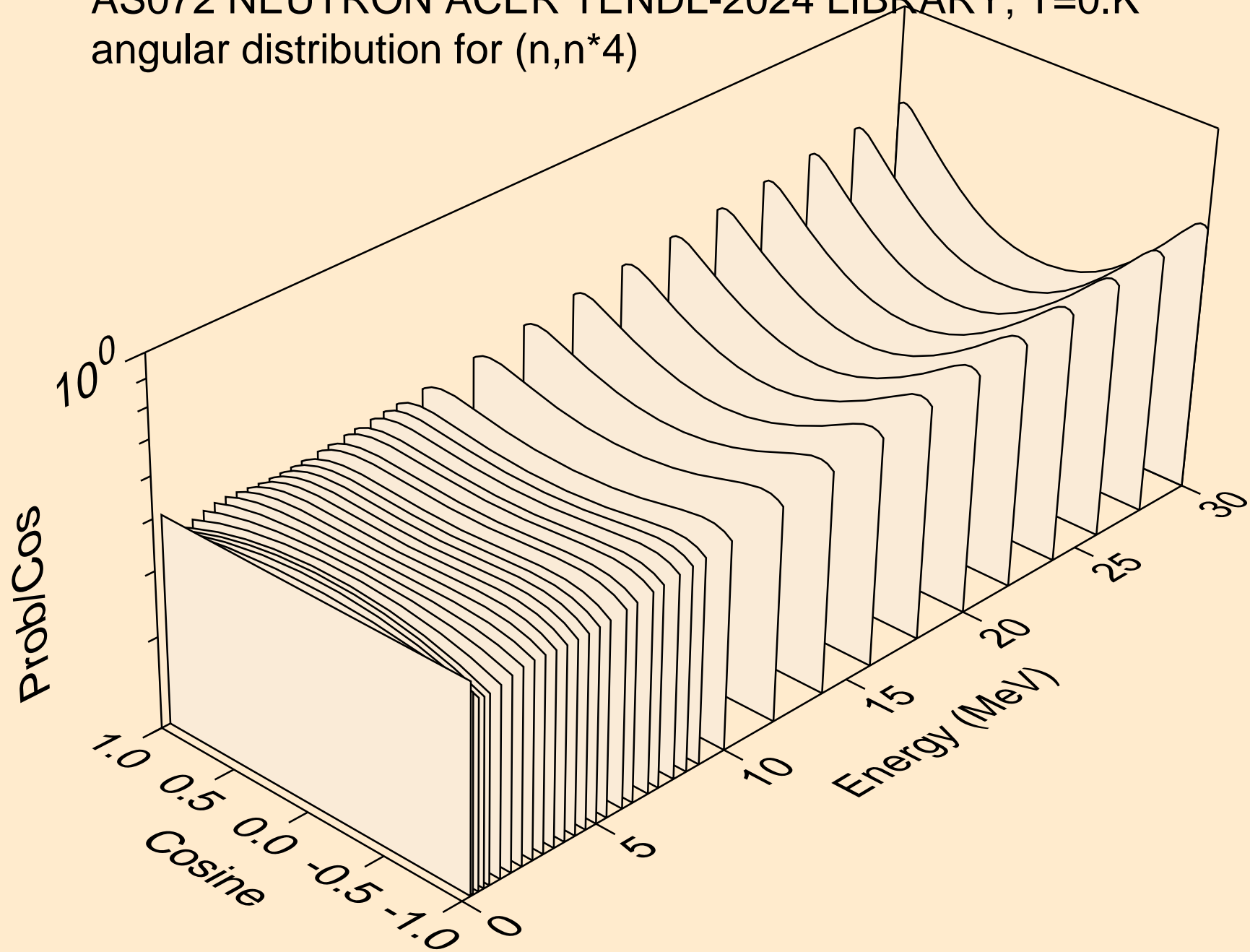
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



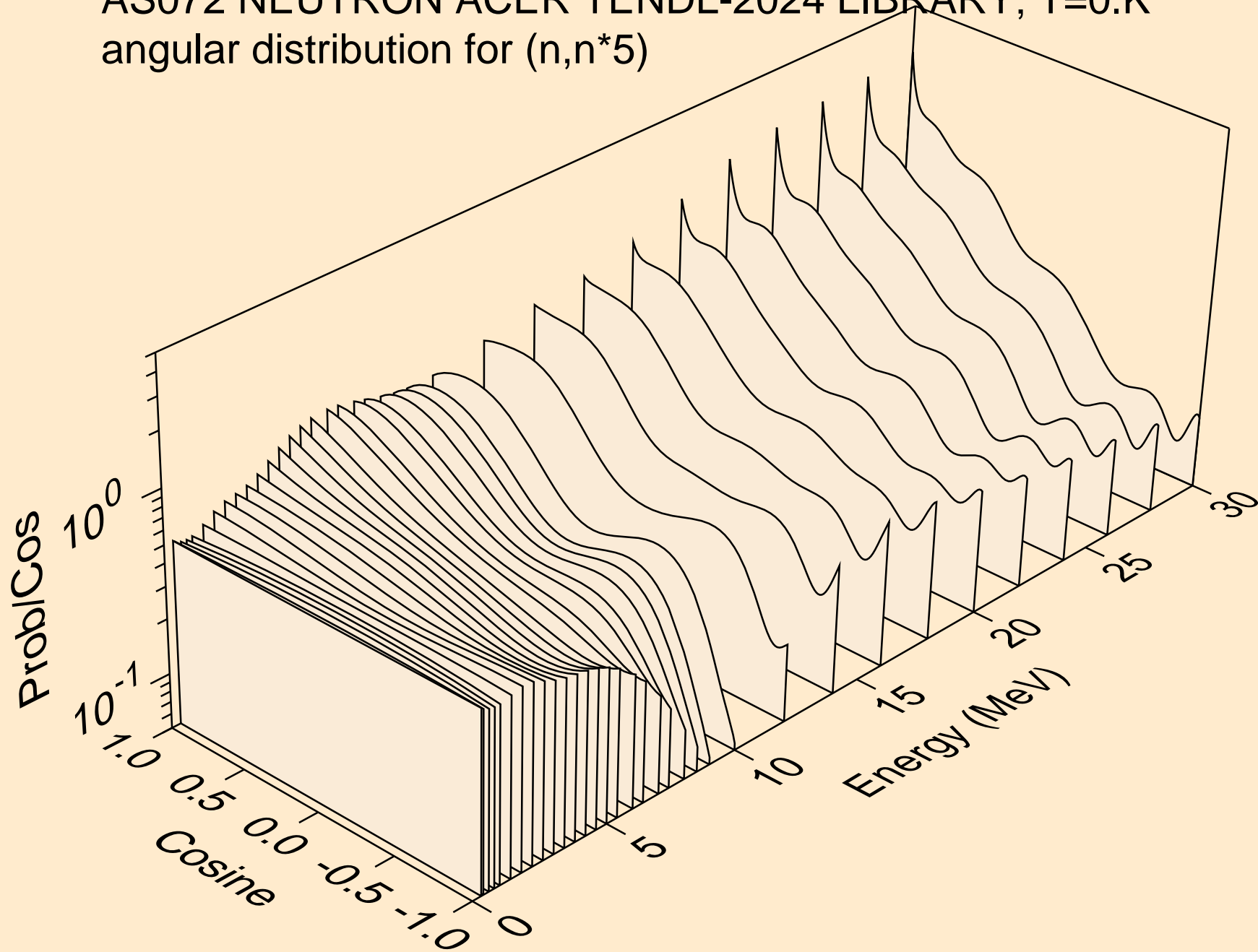
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angular distribution for (n,n\*3)



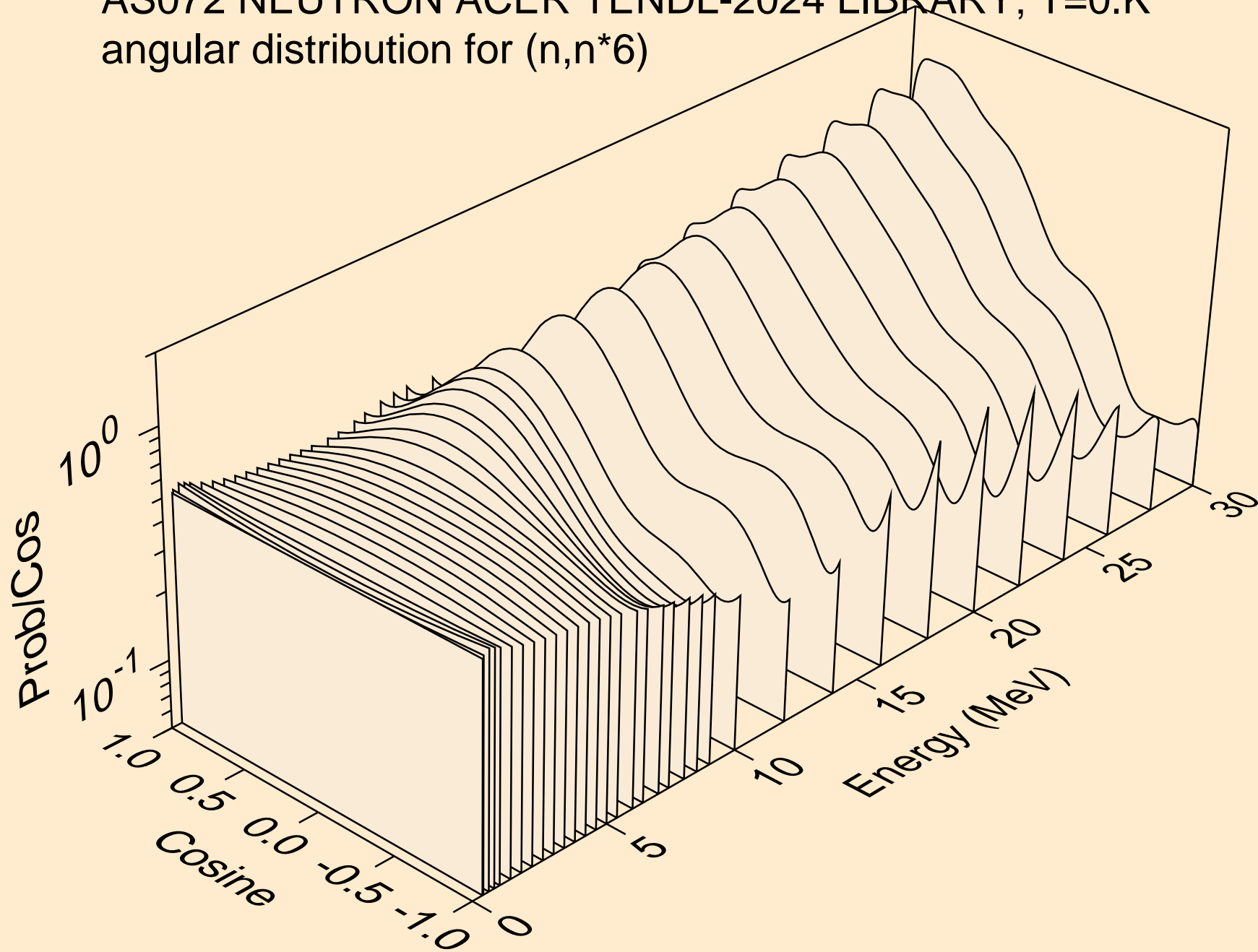
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angular distribution for (n,n\*4)



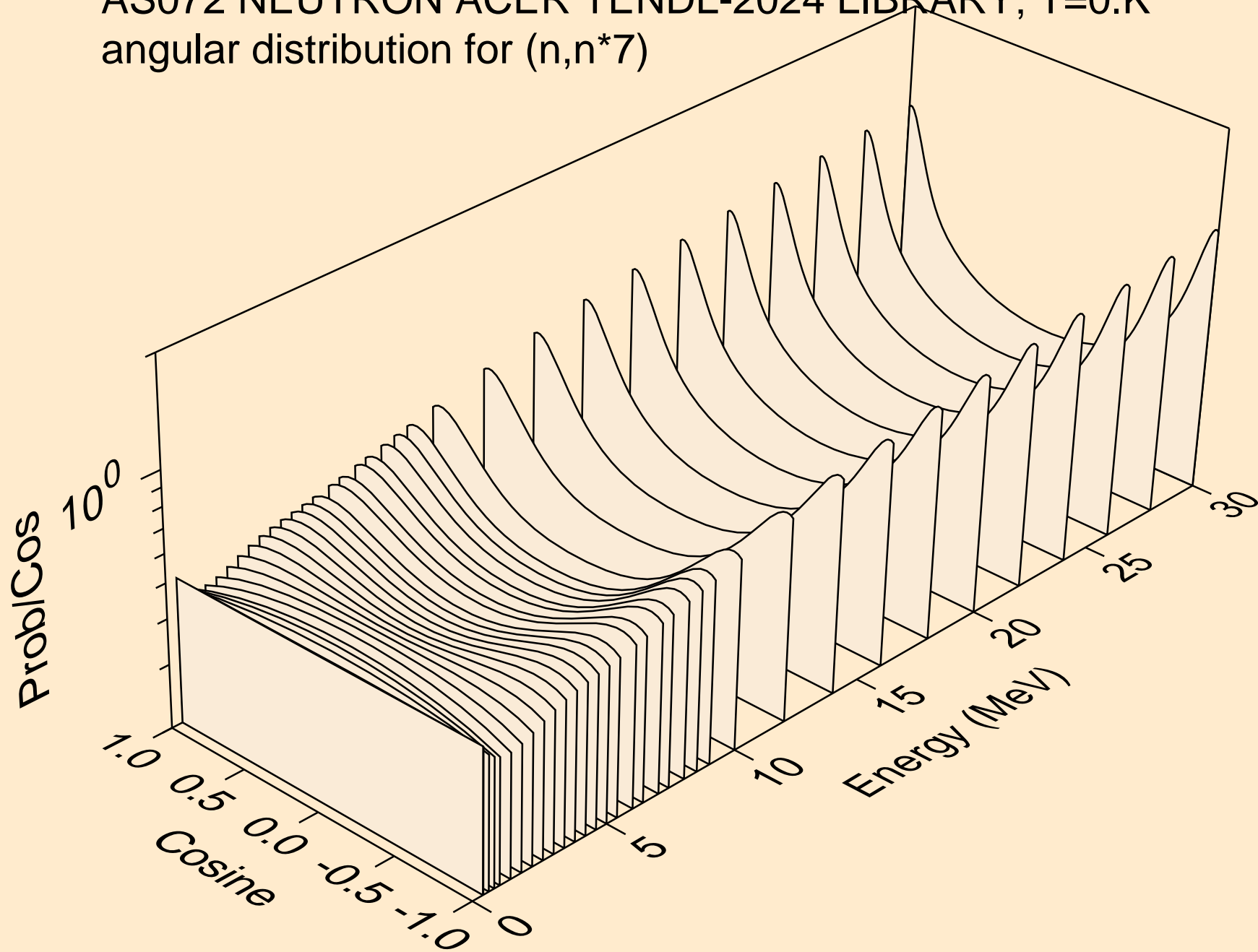
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*6)

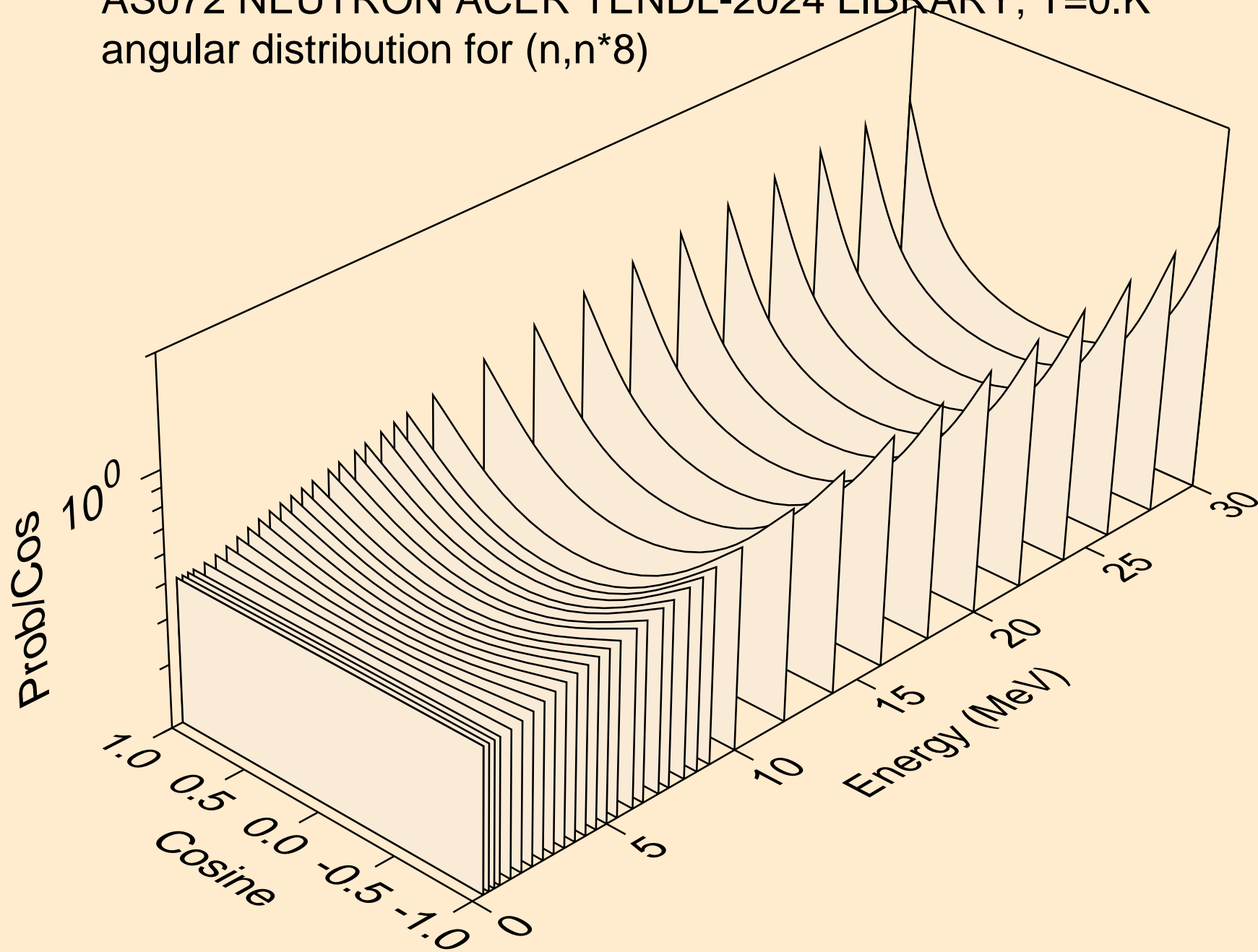


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*7)

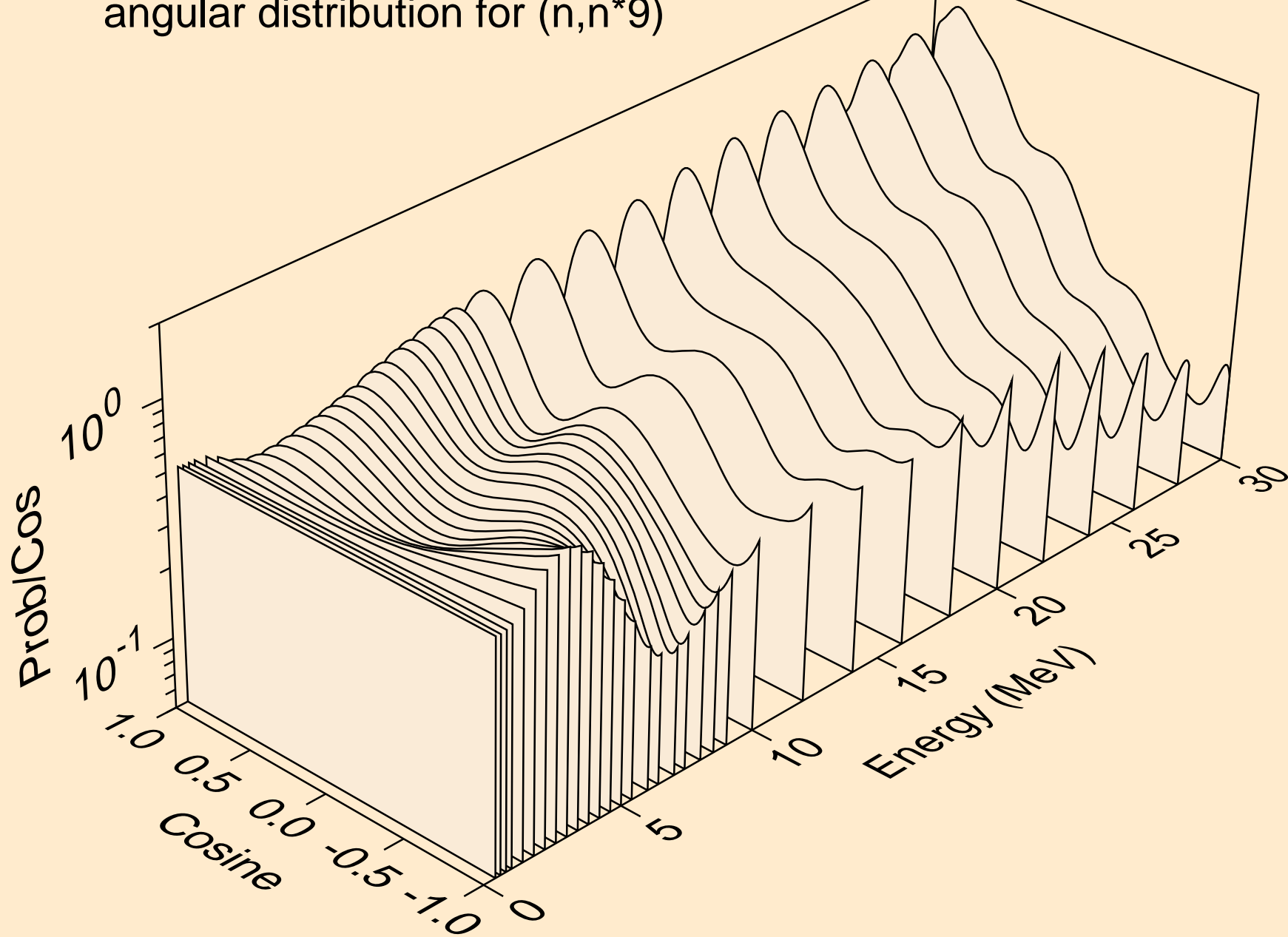




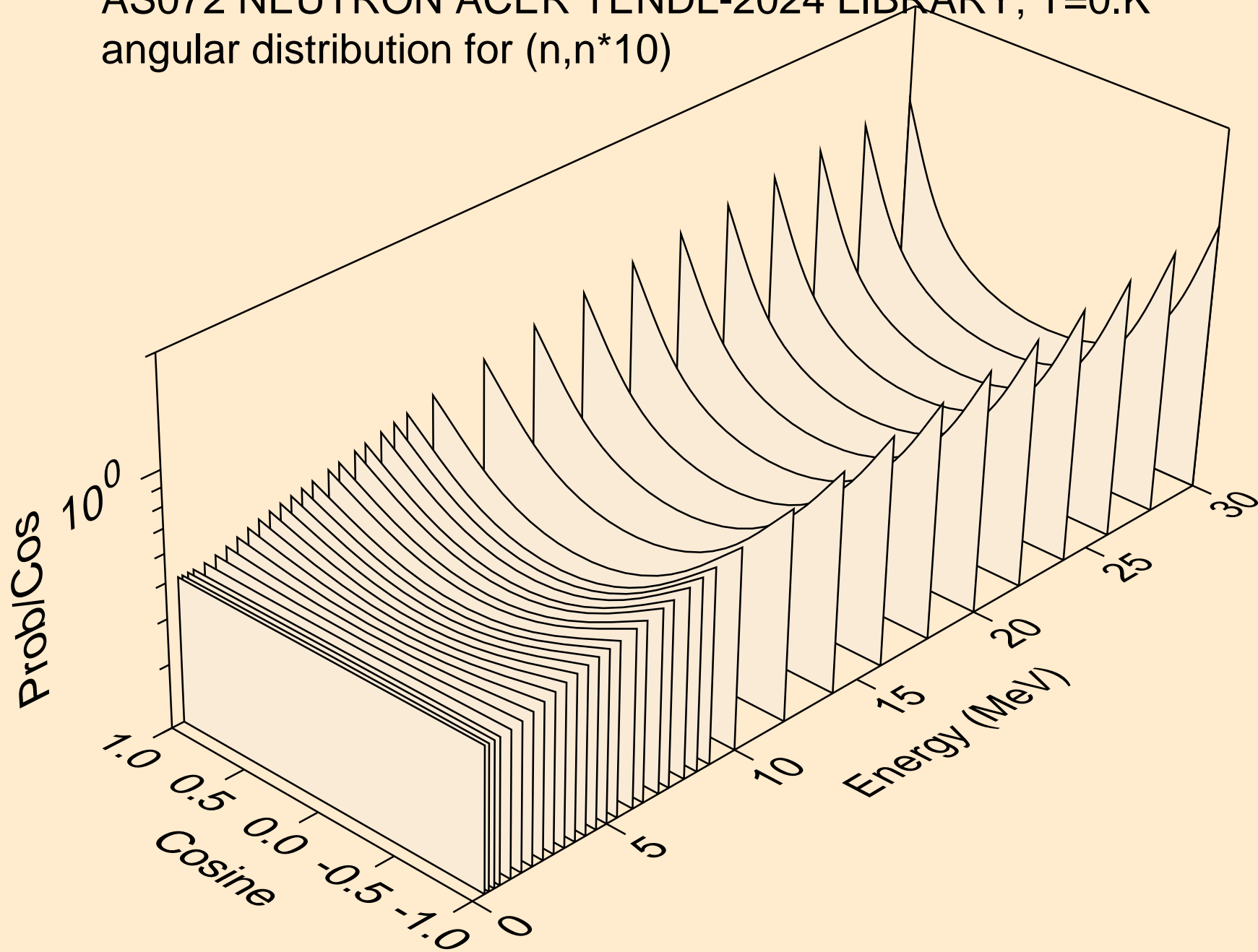
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angular distribution for (n,n\*8)



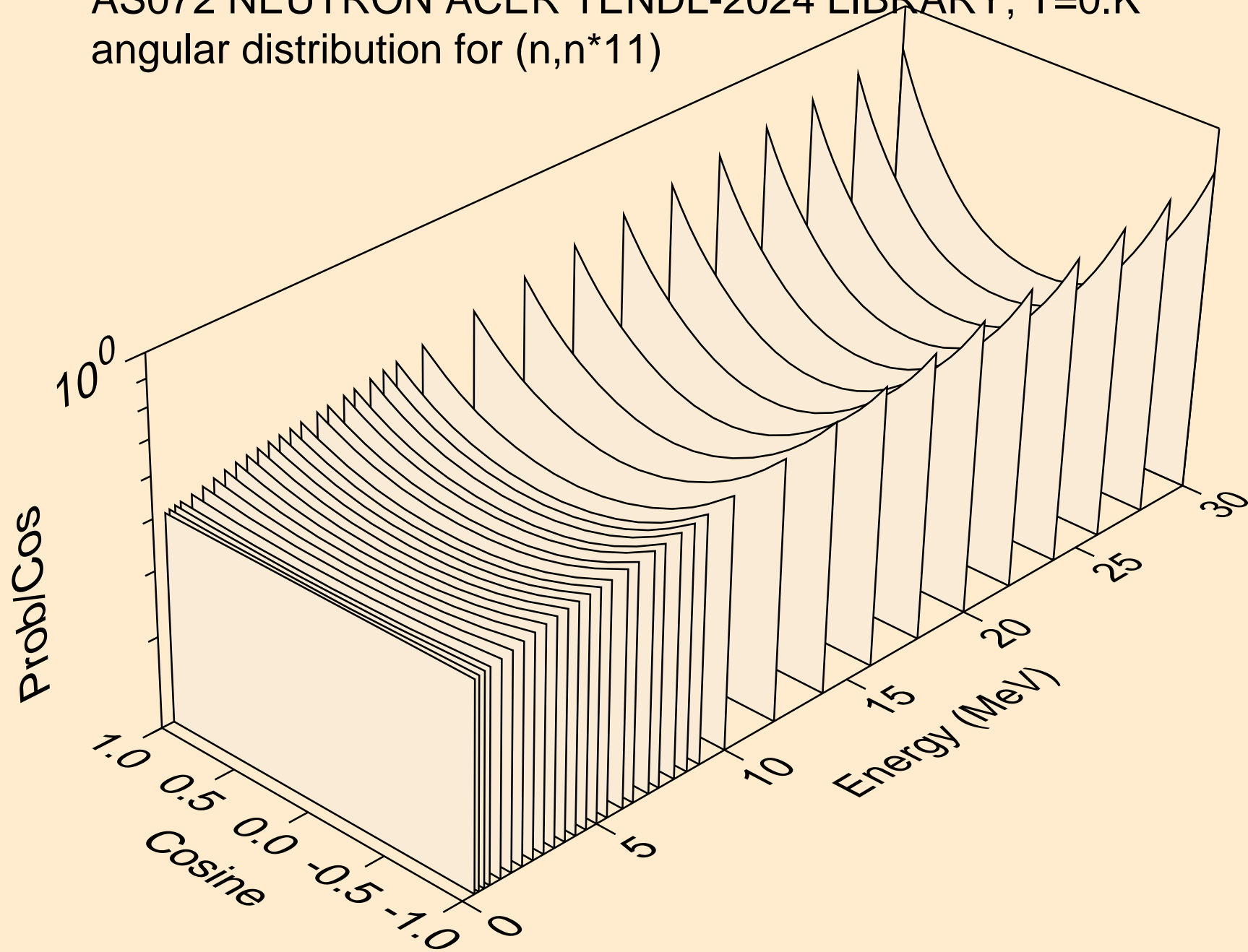
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angular distribution for (n,n\*9)



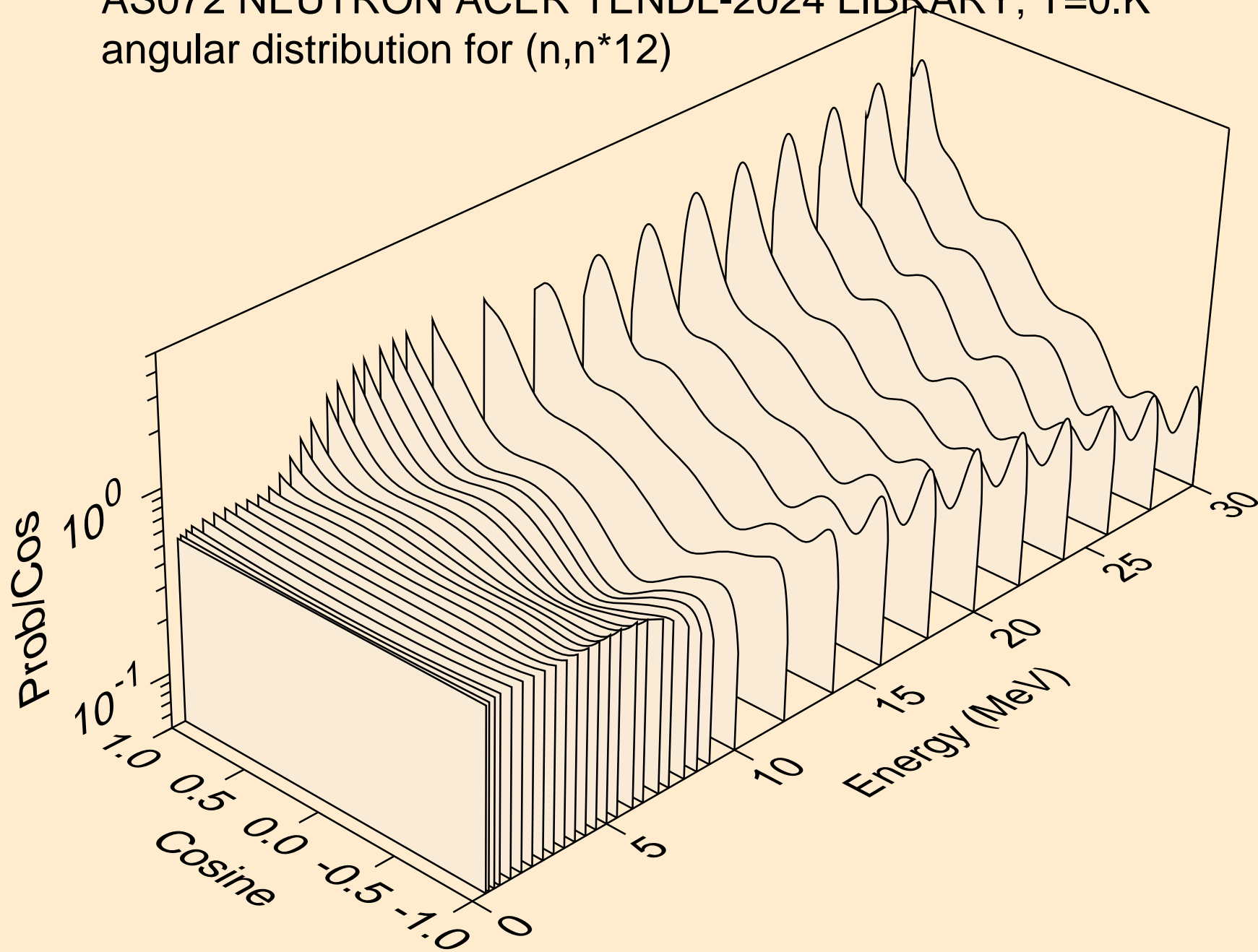
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angular distribution for (n,n\*10)



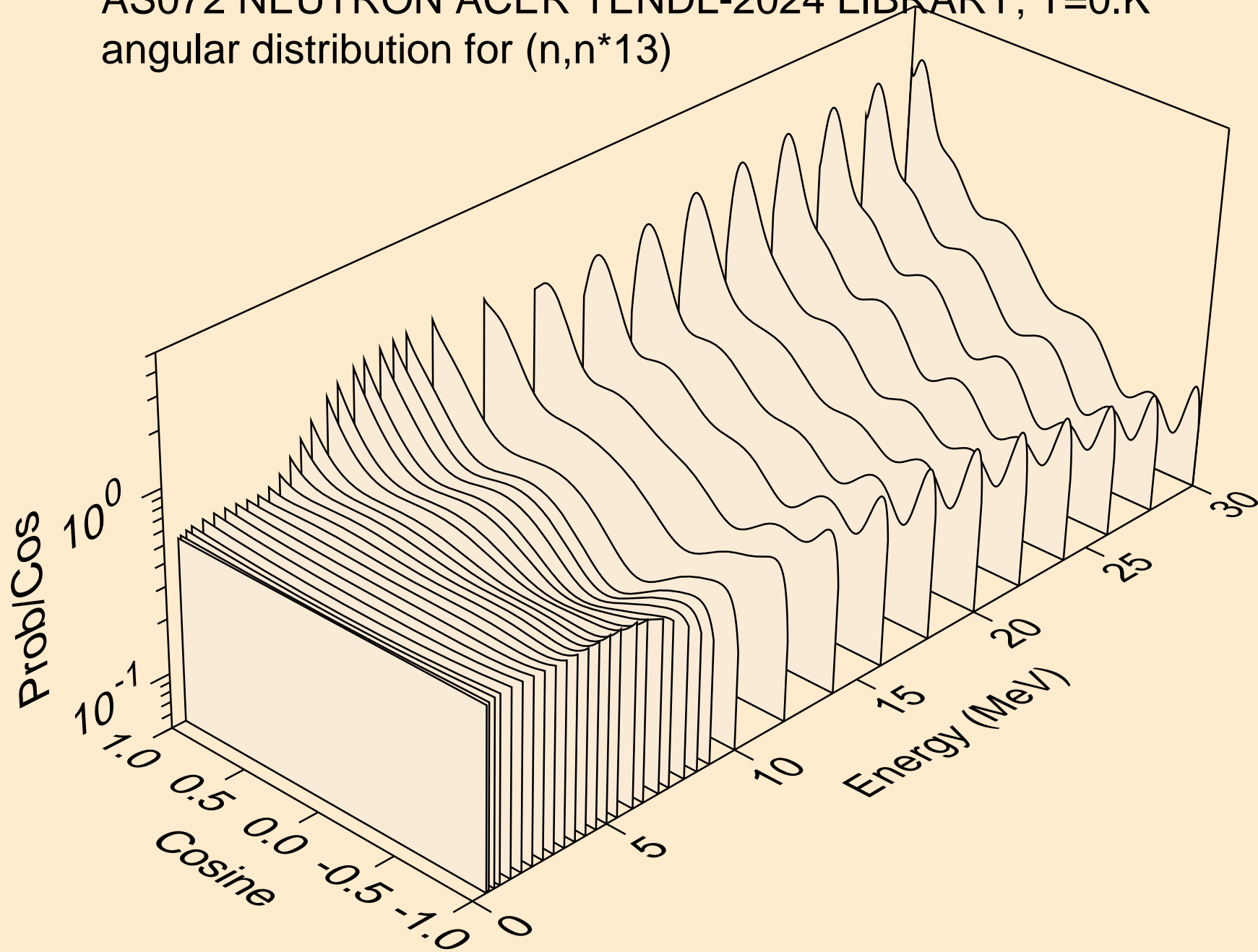
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angular distribution for (n,n\*11)



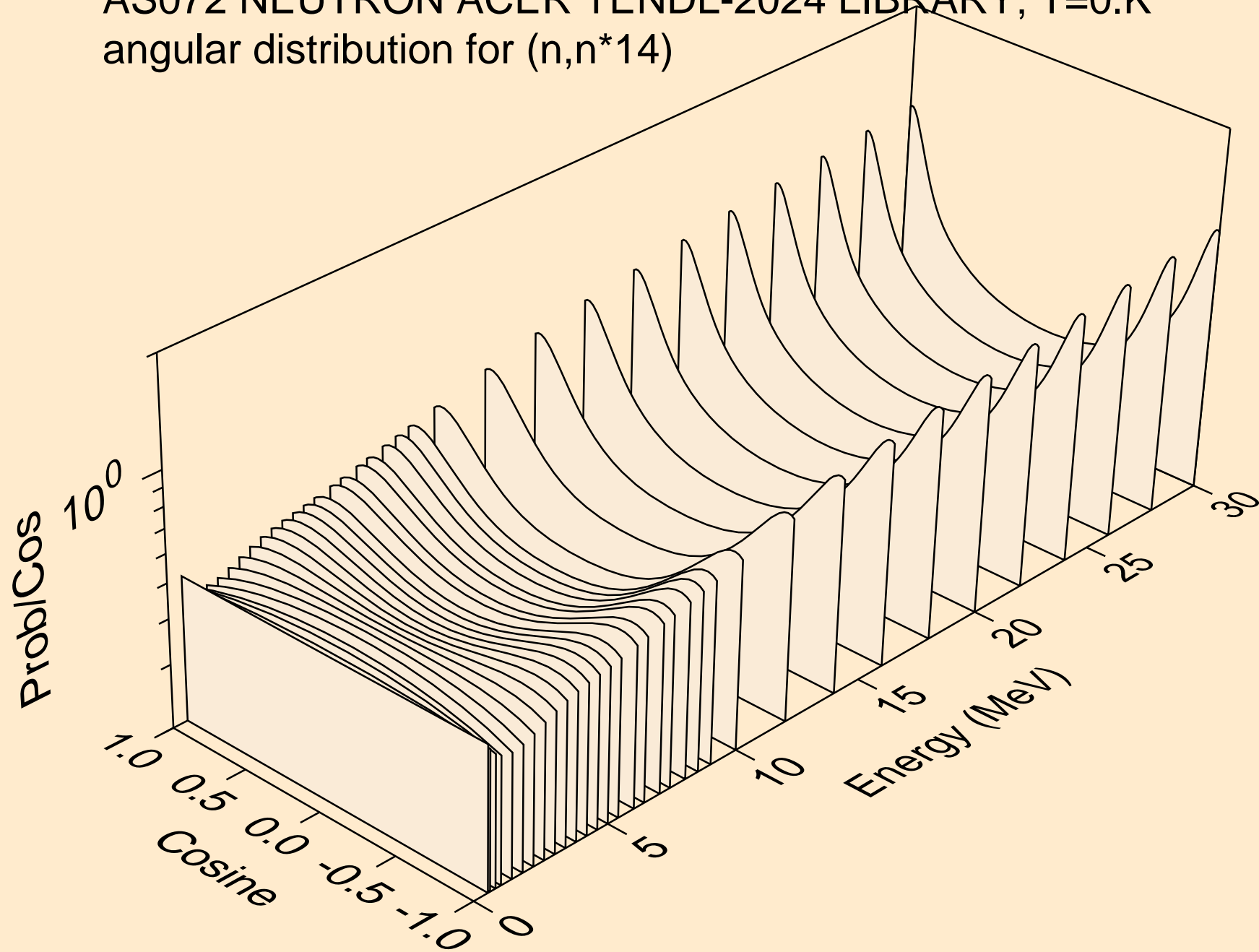
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angular distribution for (n,n\*12)



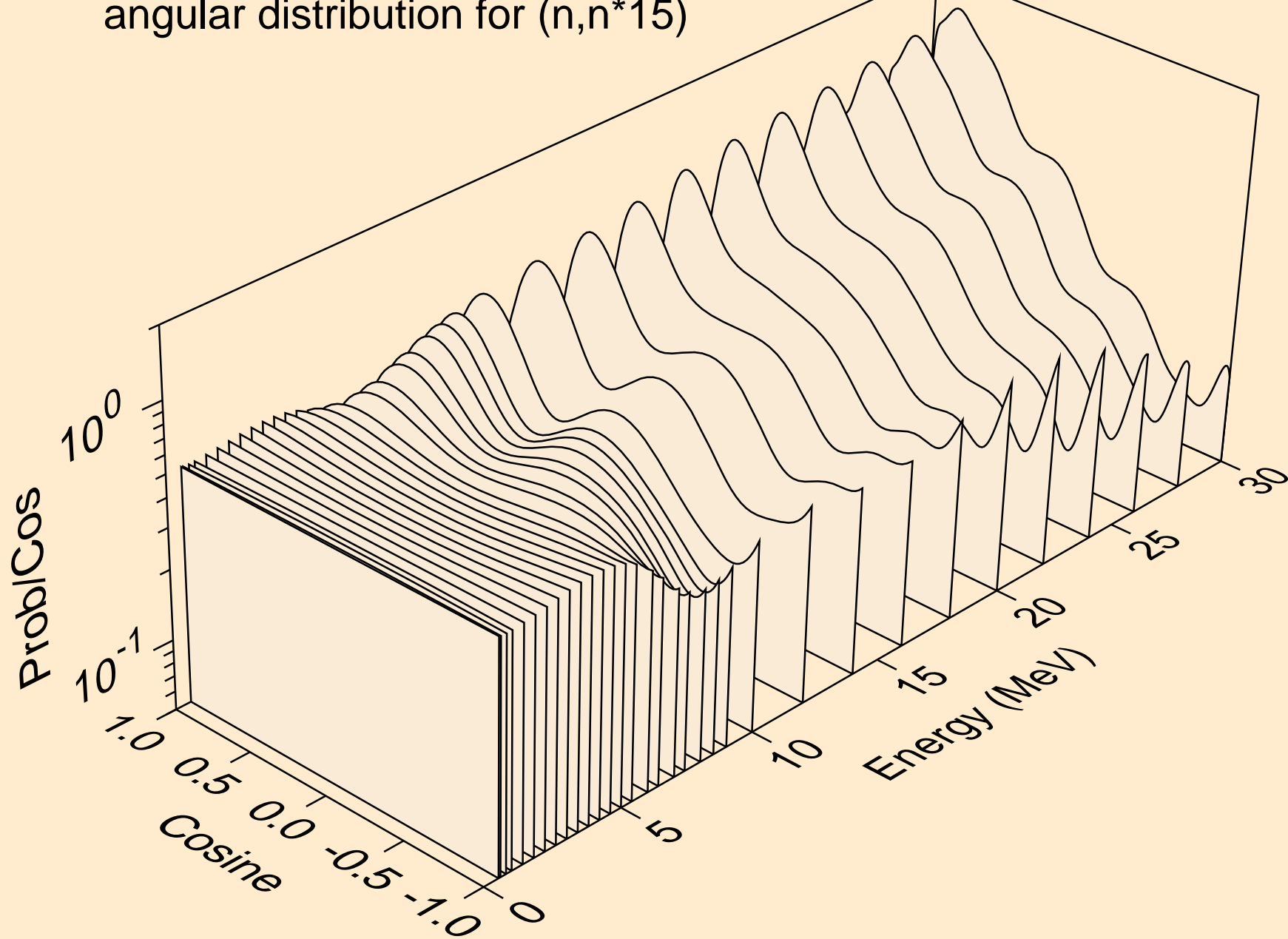
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*14)

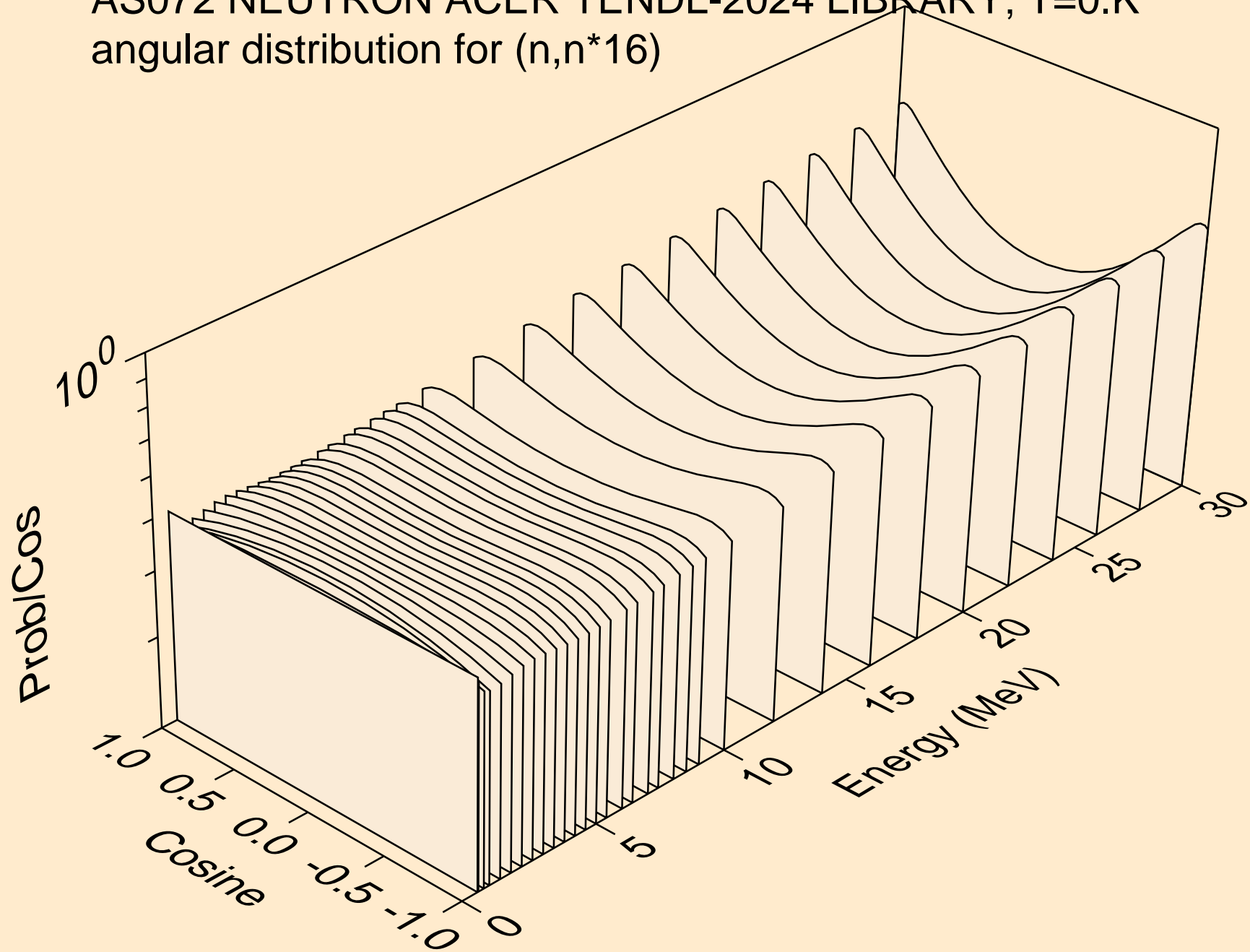


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angular distribution for (n,n\*15)

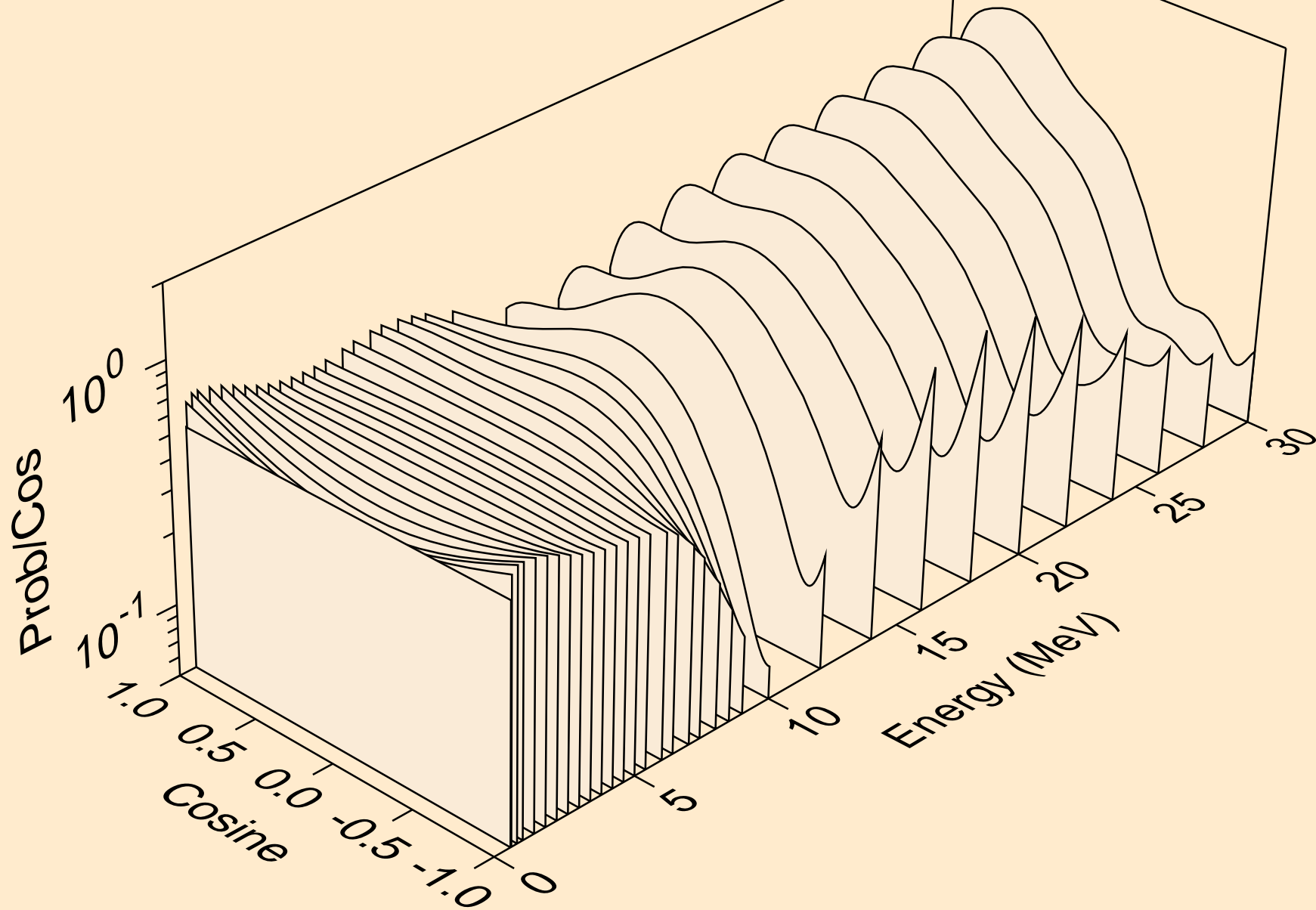




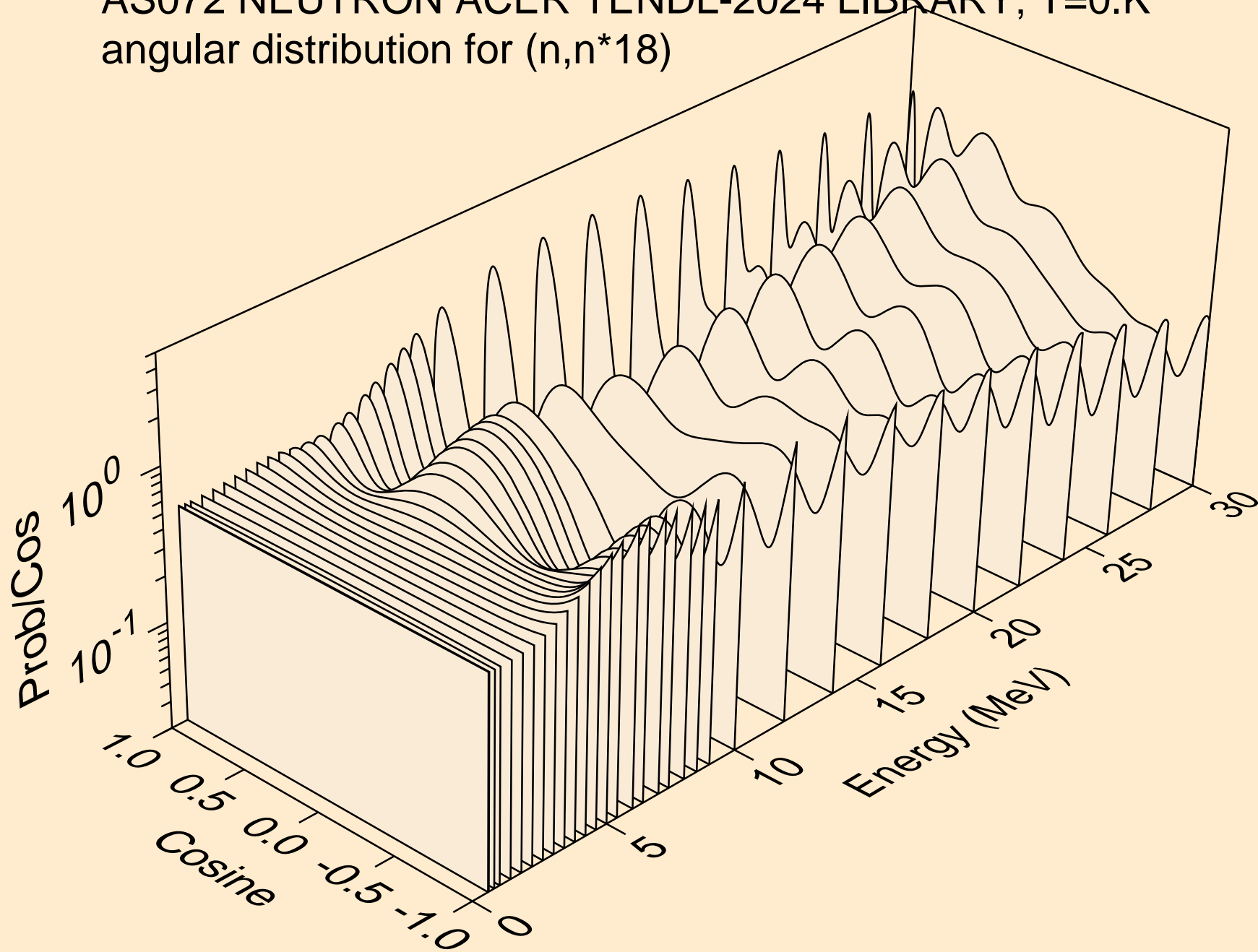
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angular distribution for (n,n\*16)



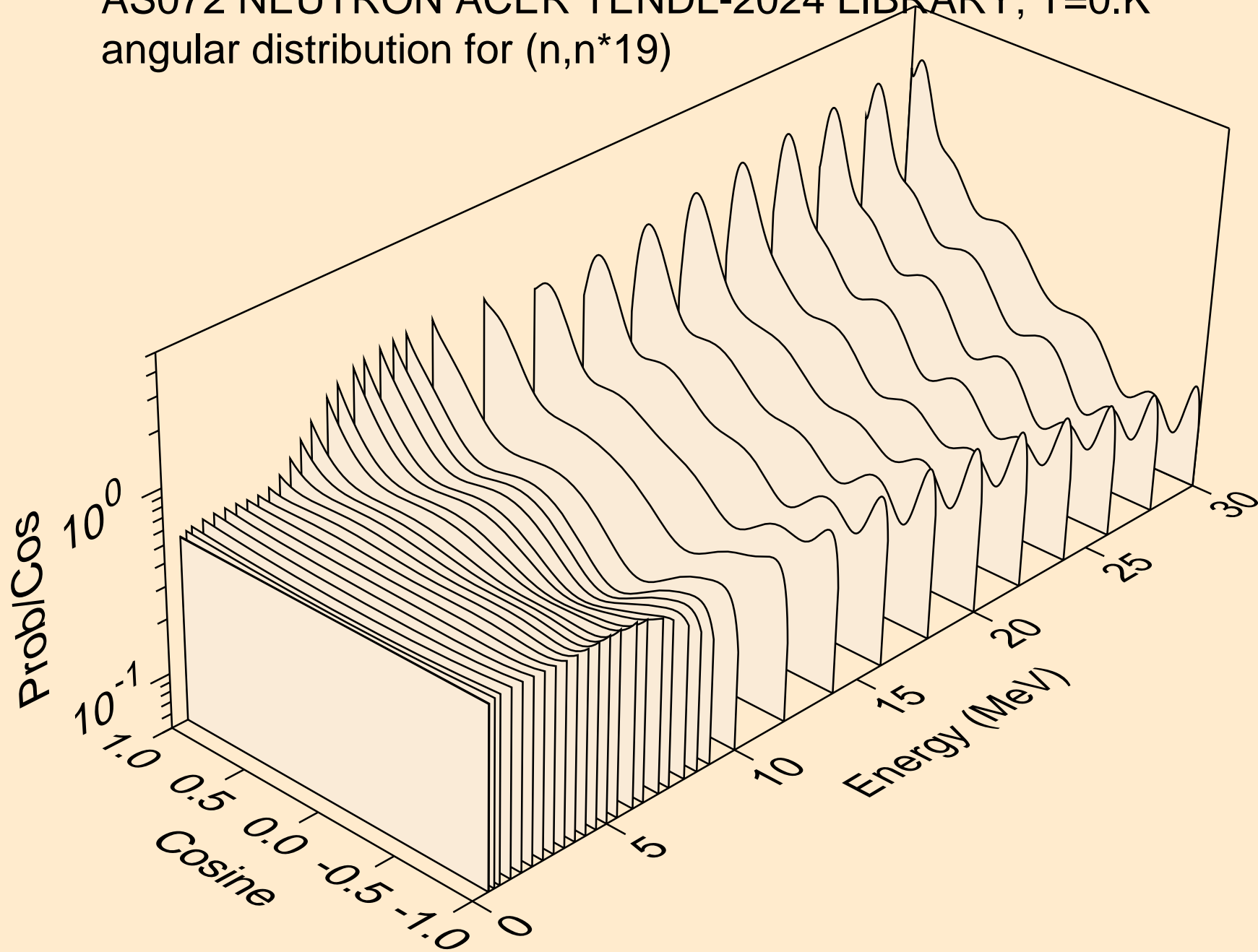
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angular distribution for (n,n\*17)



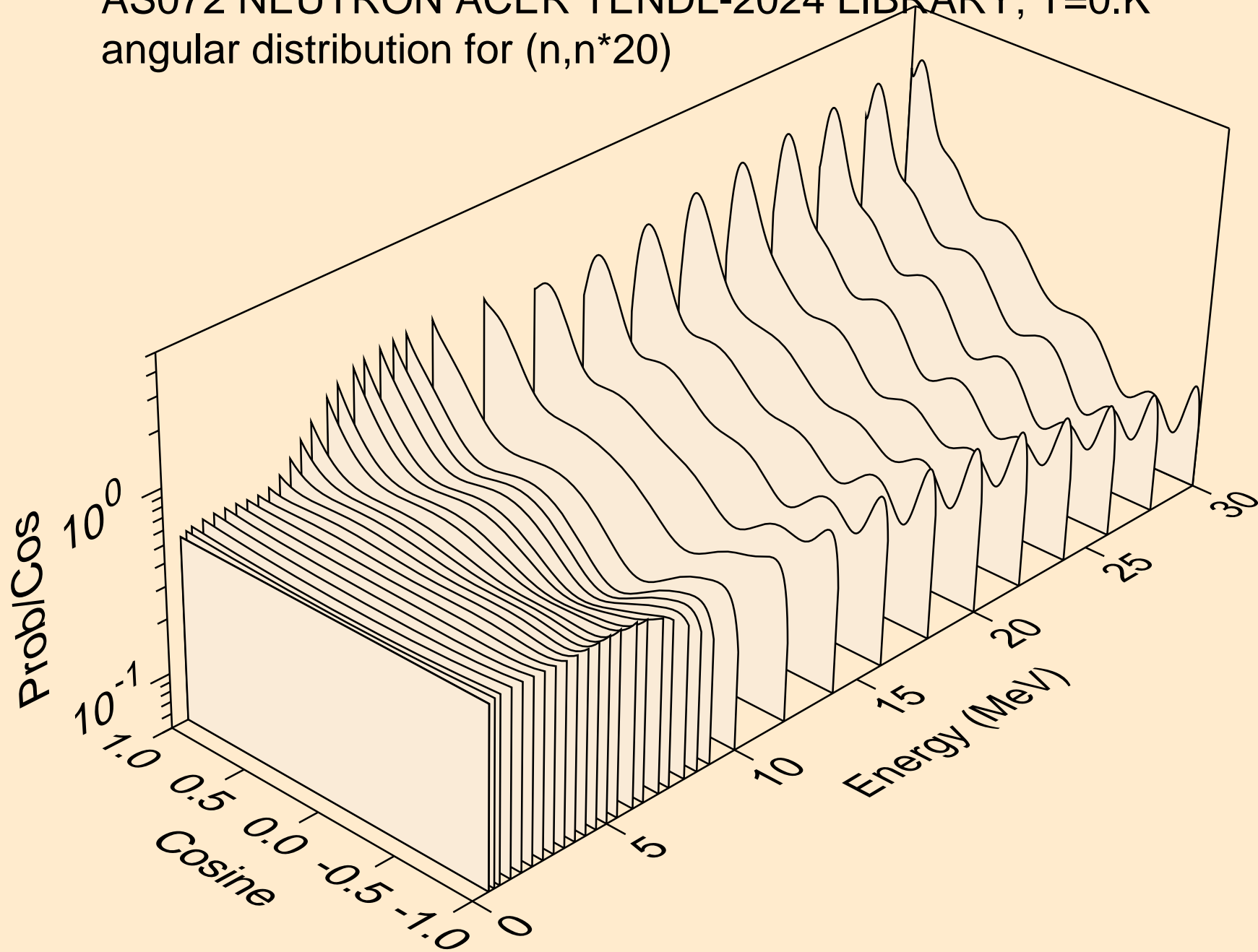
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angular distribution for (n,n\*18)



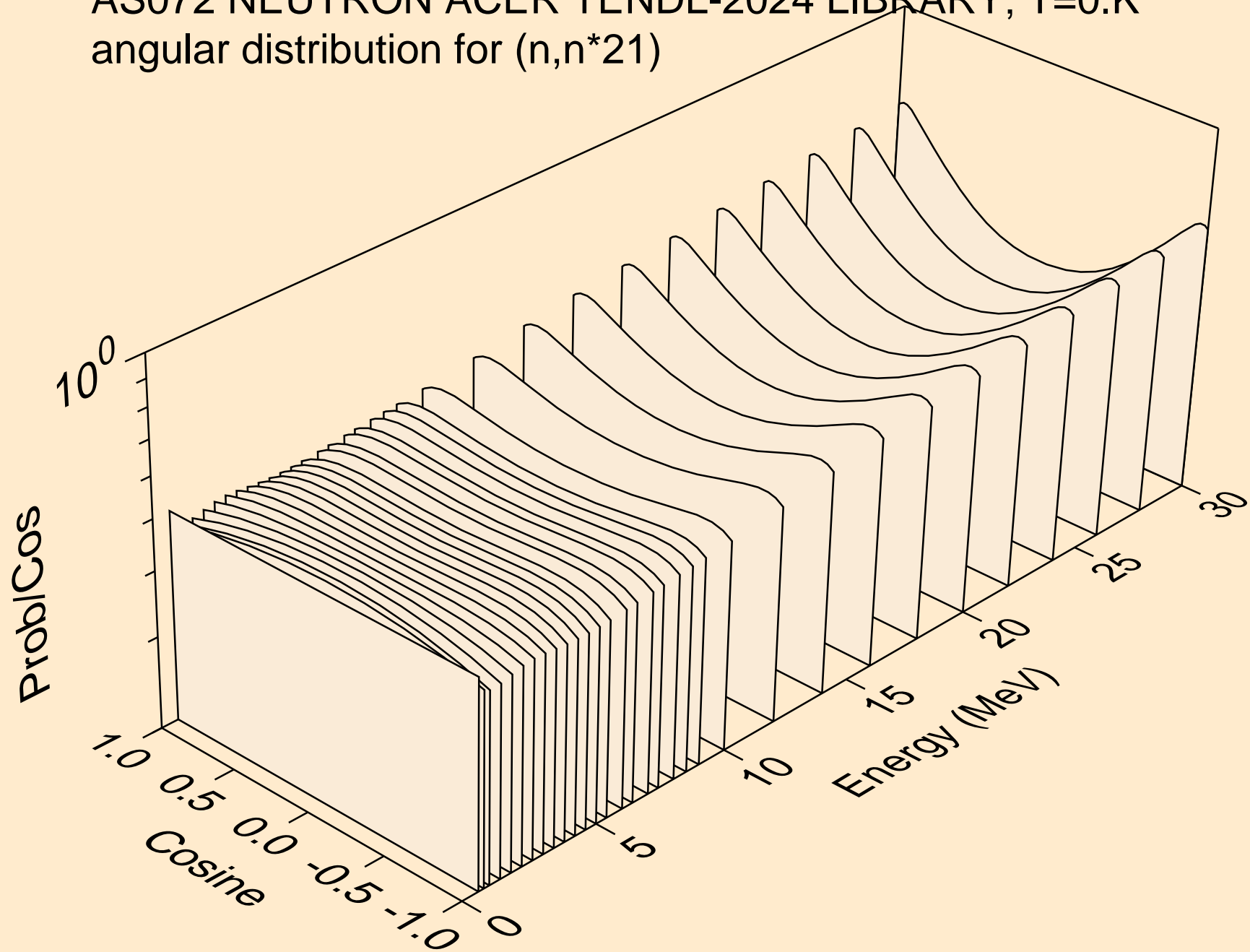
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angular distribution for (n,n\*19)



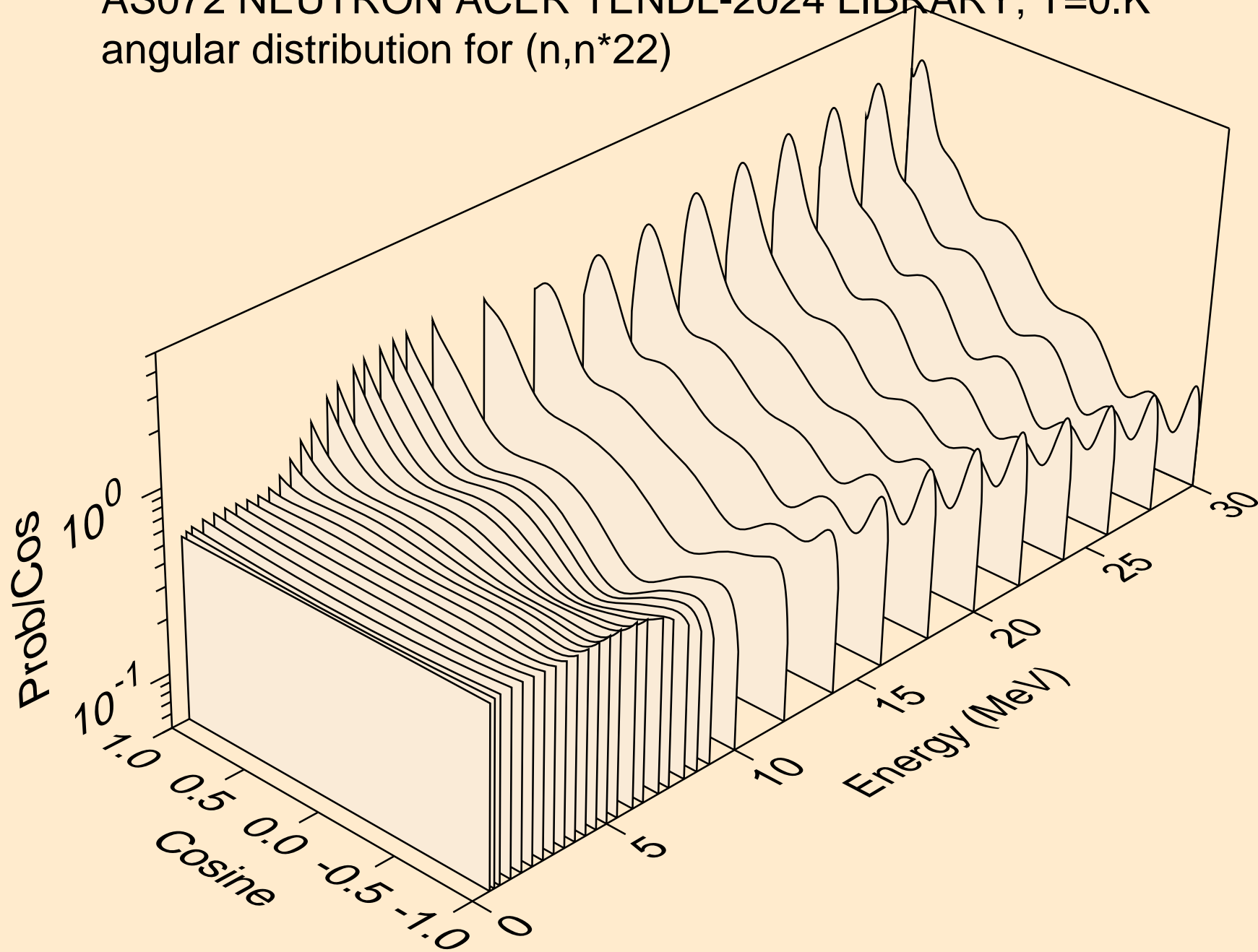
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angular distribution for (n,n\*20)



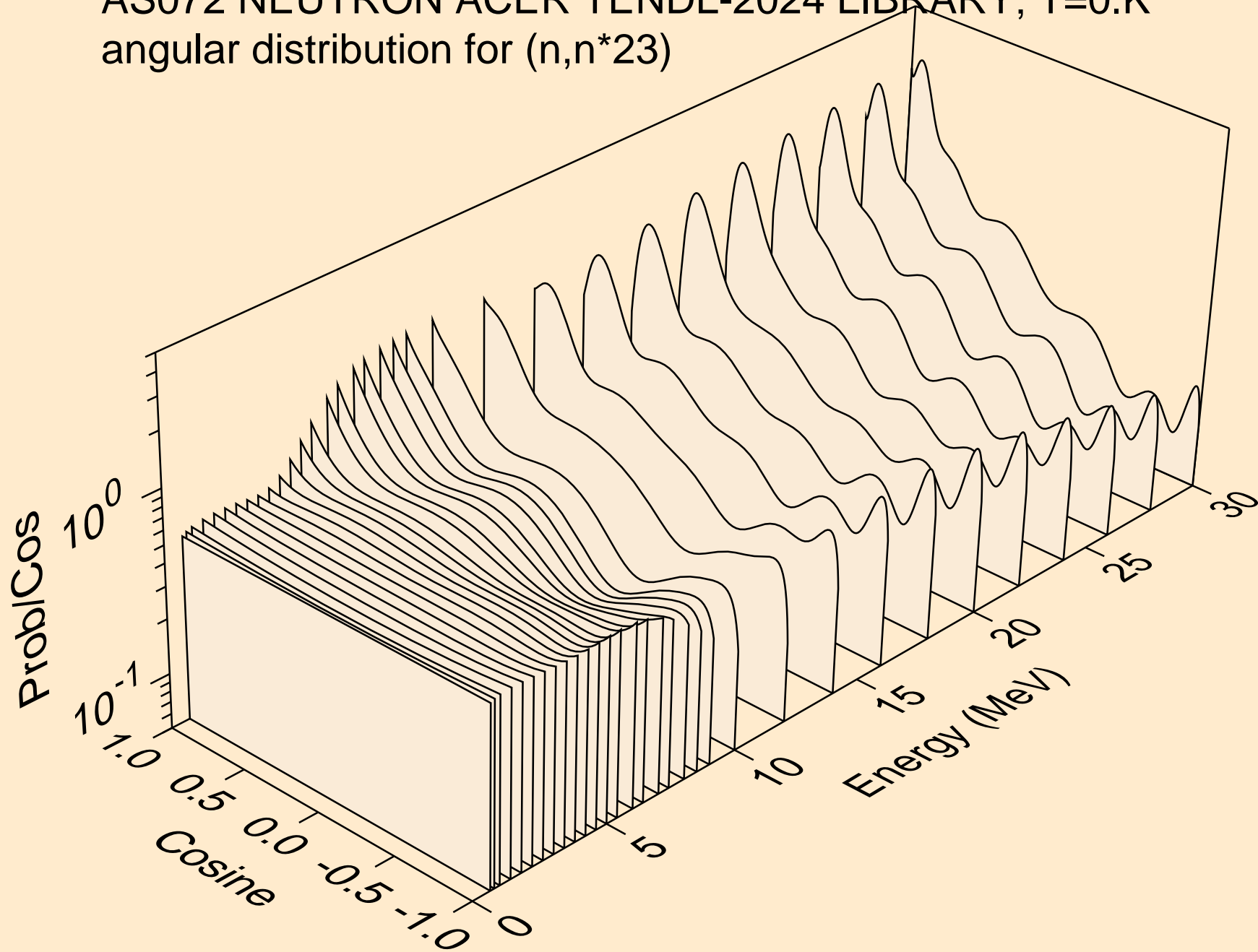
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*21)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*22)

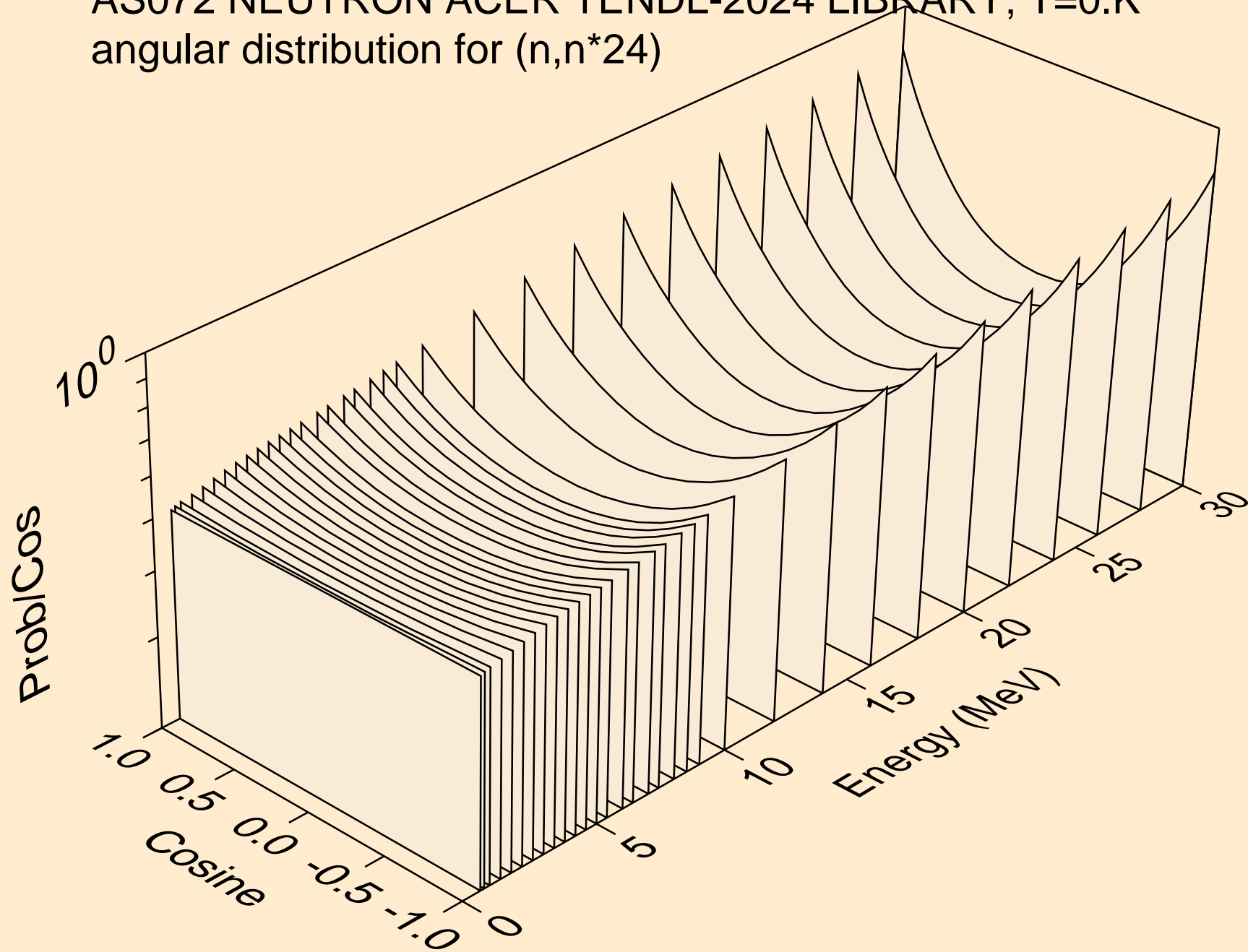


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*23)

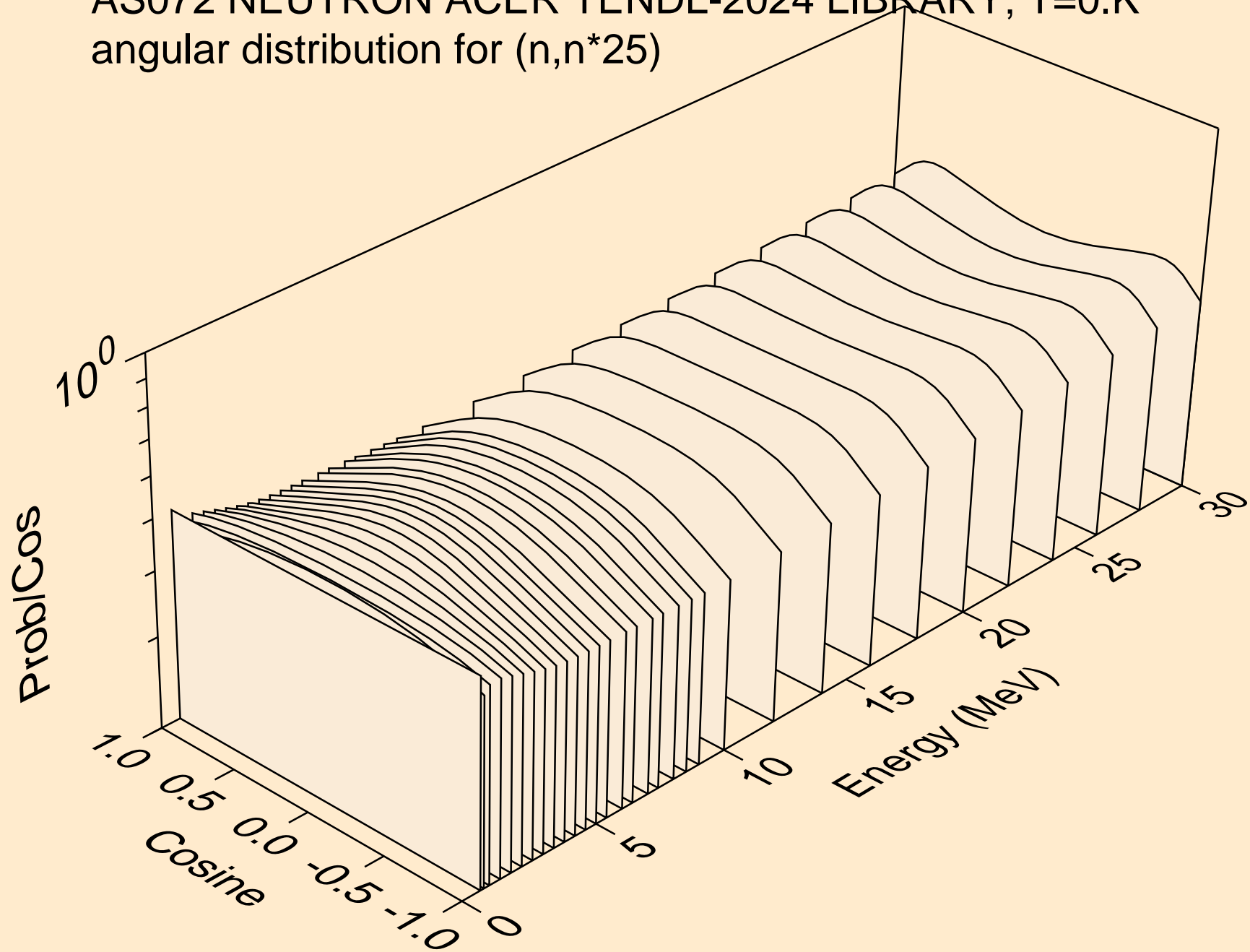




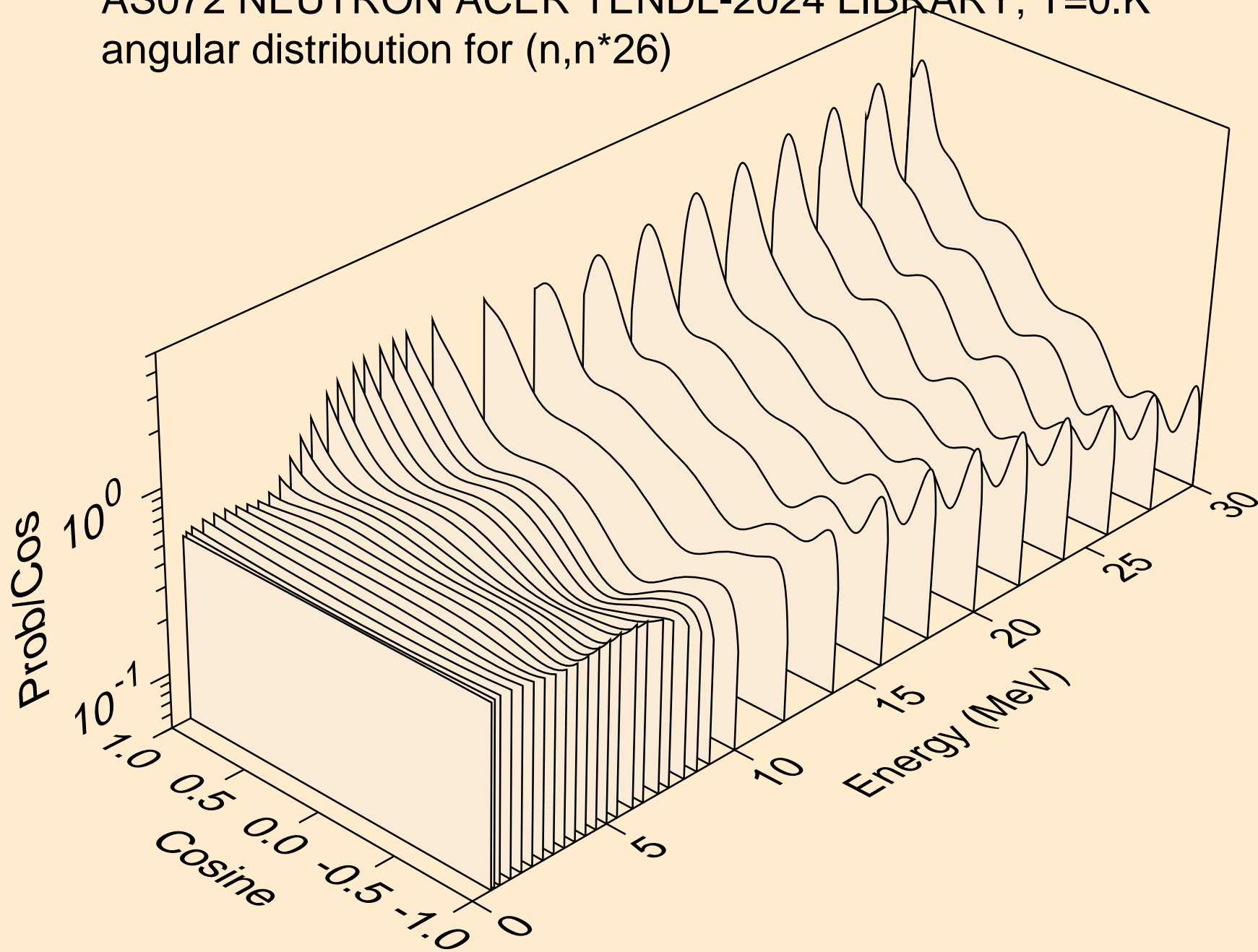
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angular distribution for (n,n\*24)



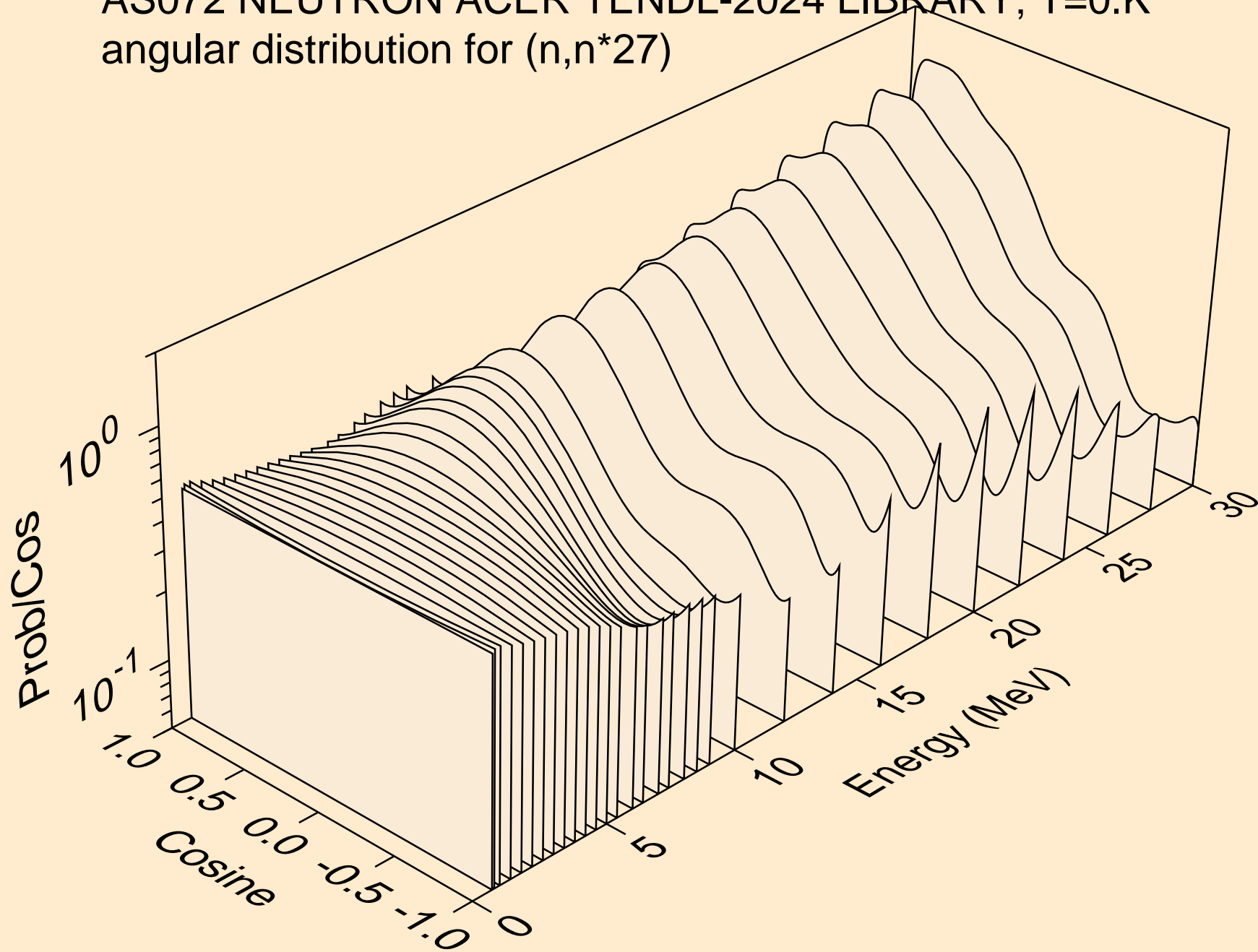
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angular distribution for (n,n\*25)



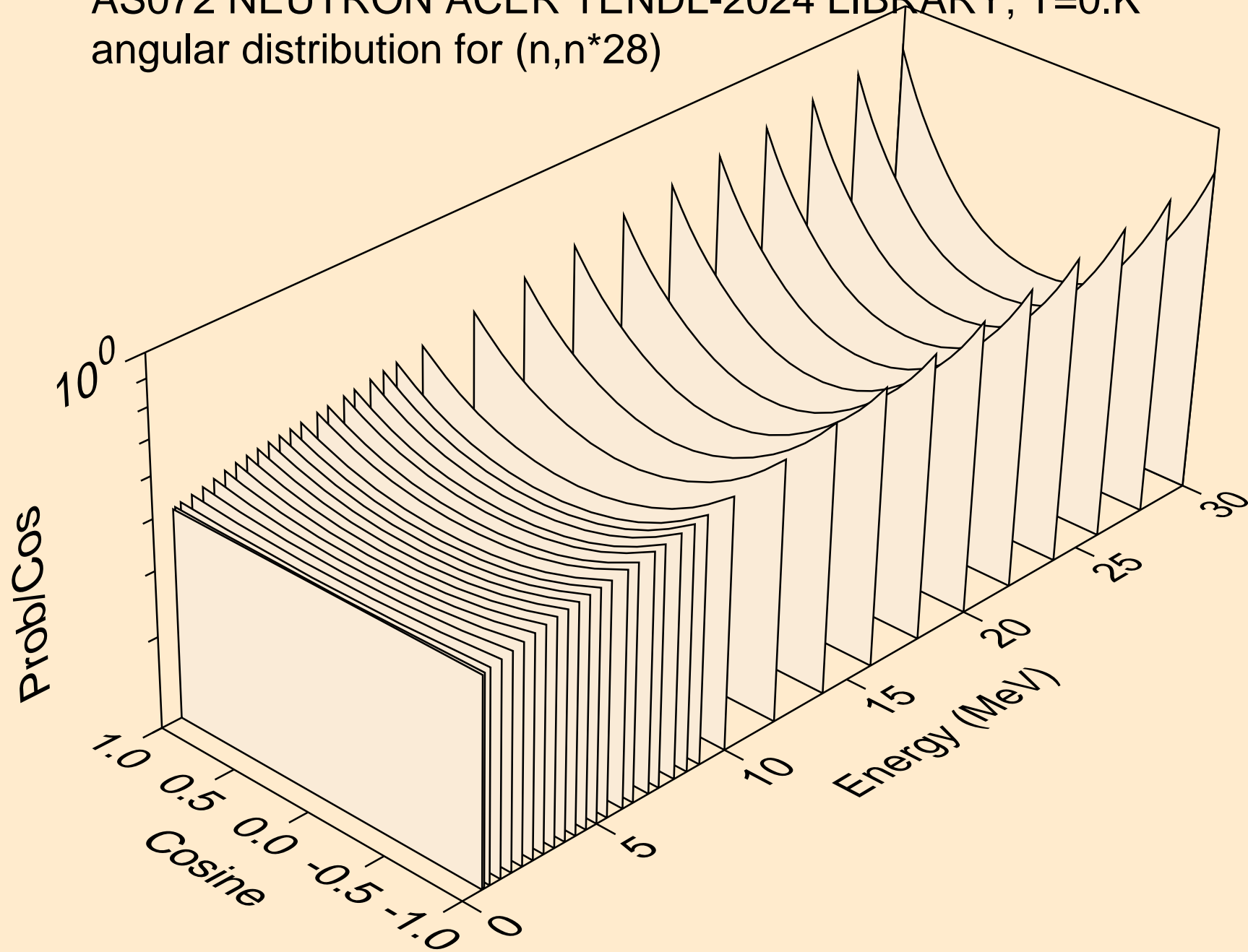
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*26)



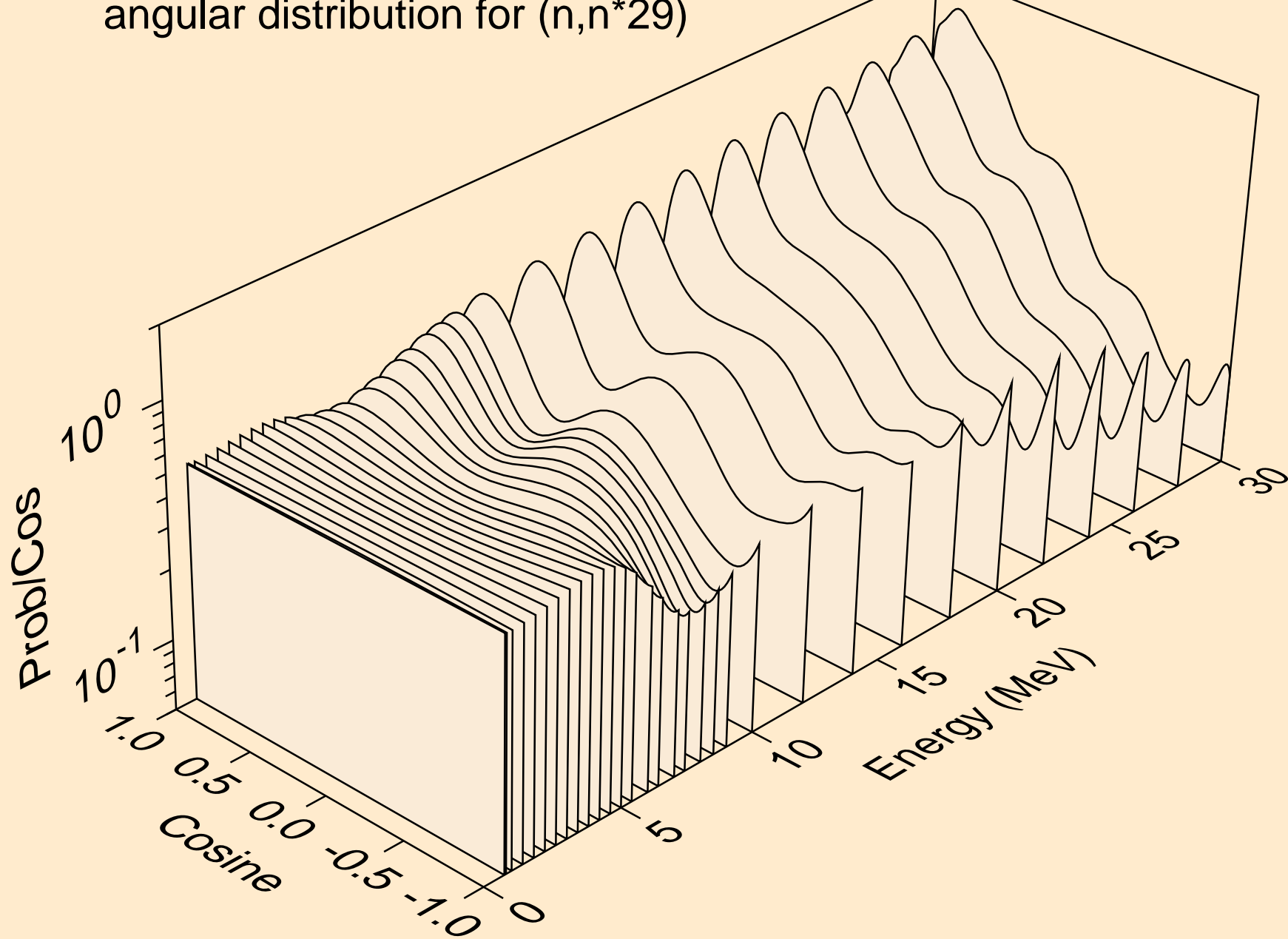
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angular distribution for (n,n\*27)



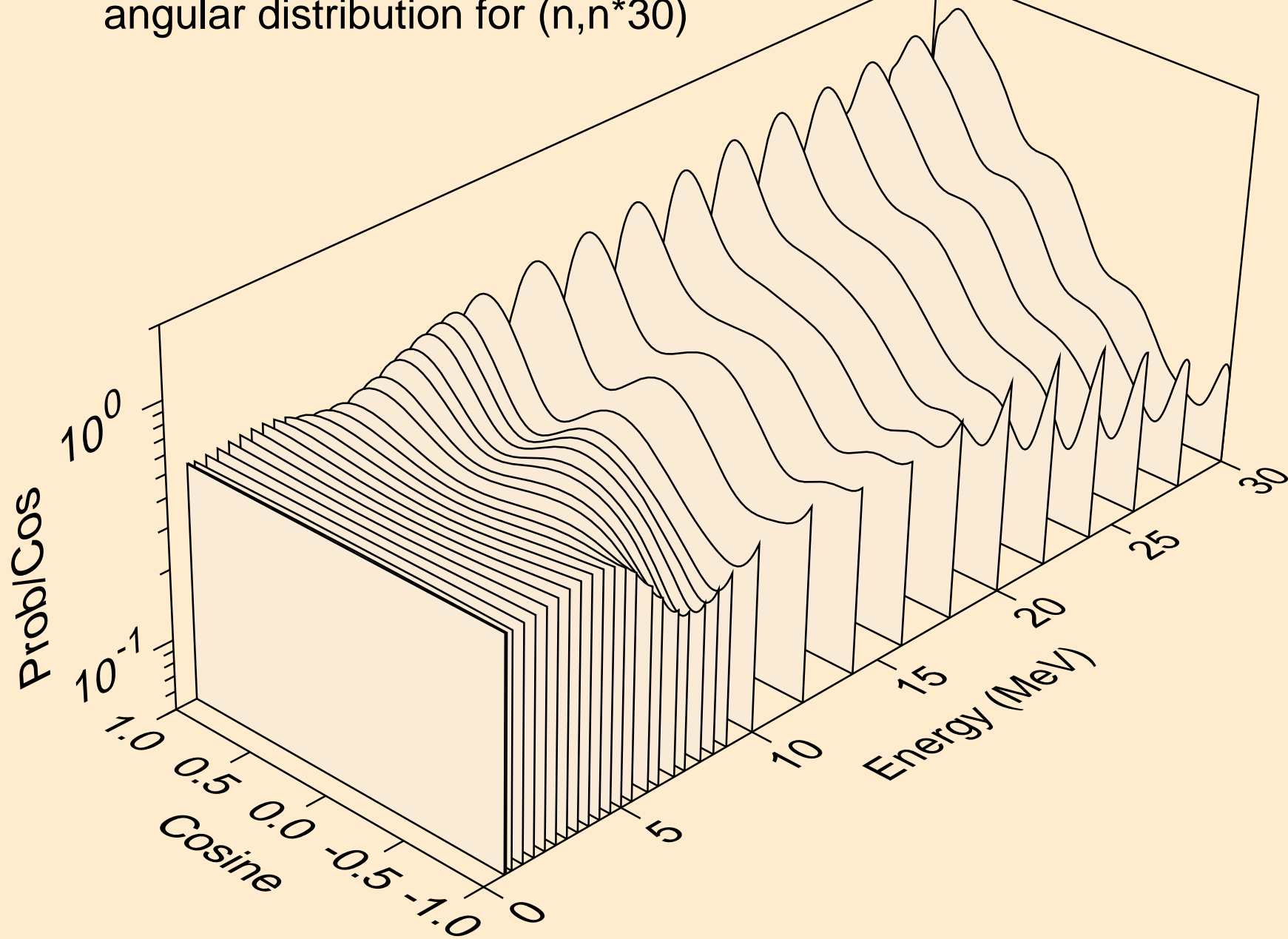
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*28)



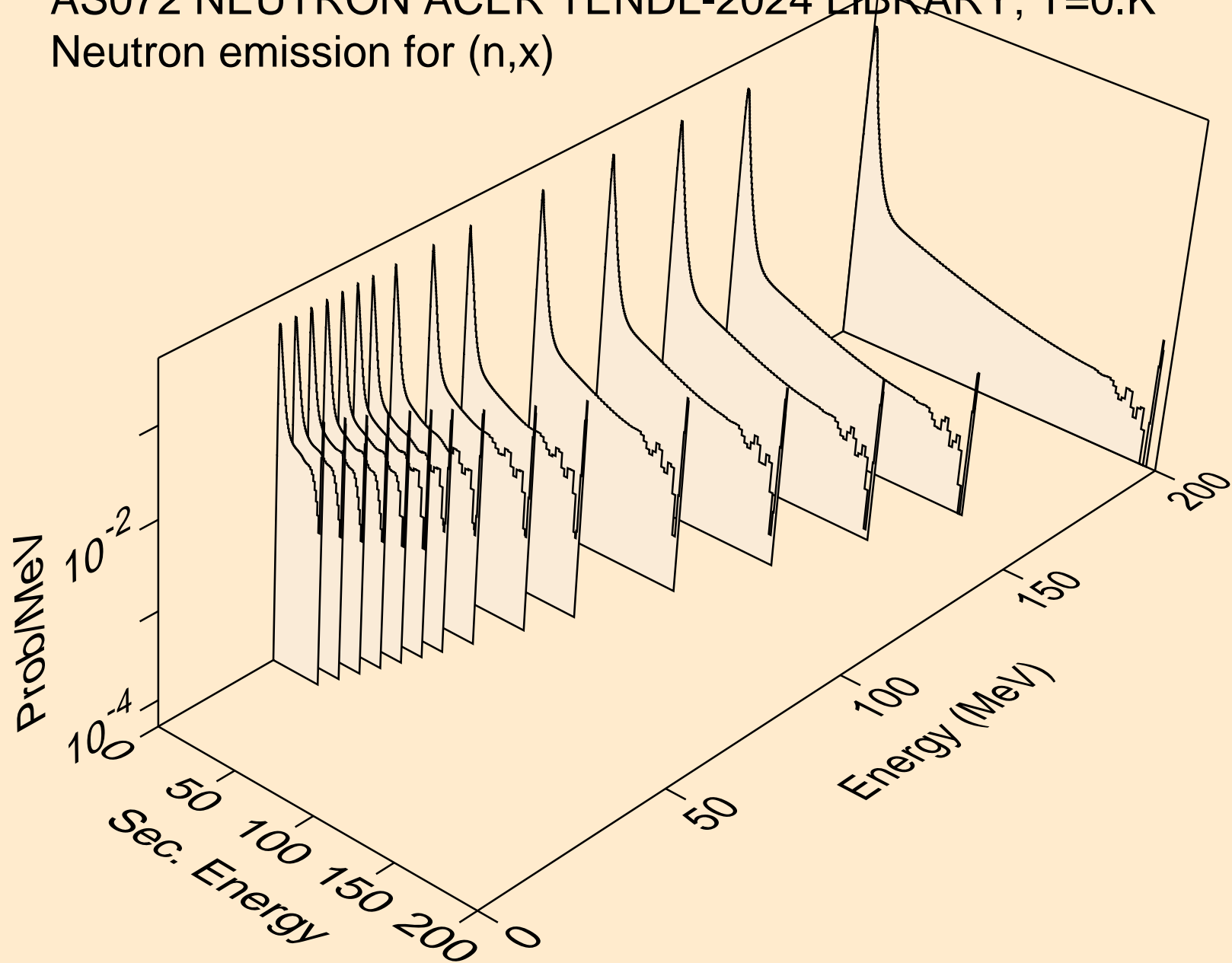
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*29)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*30)

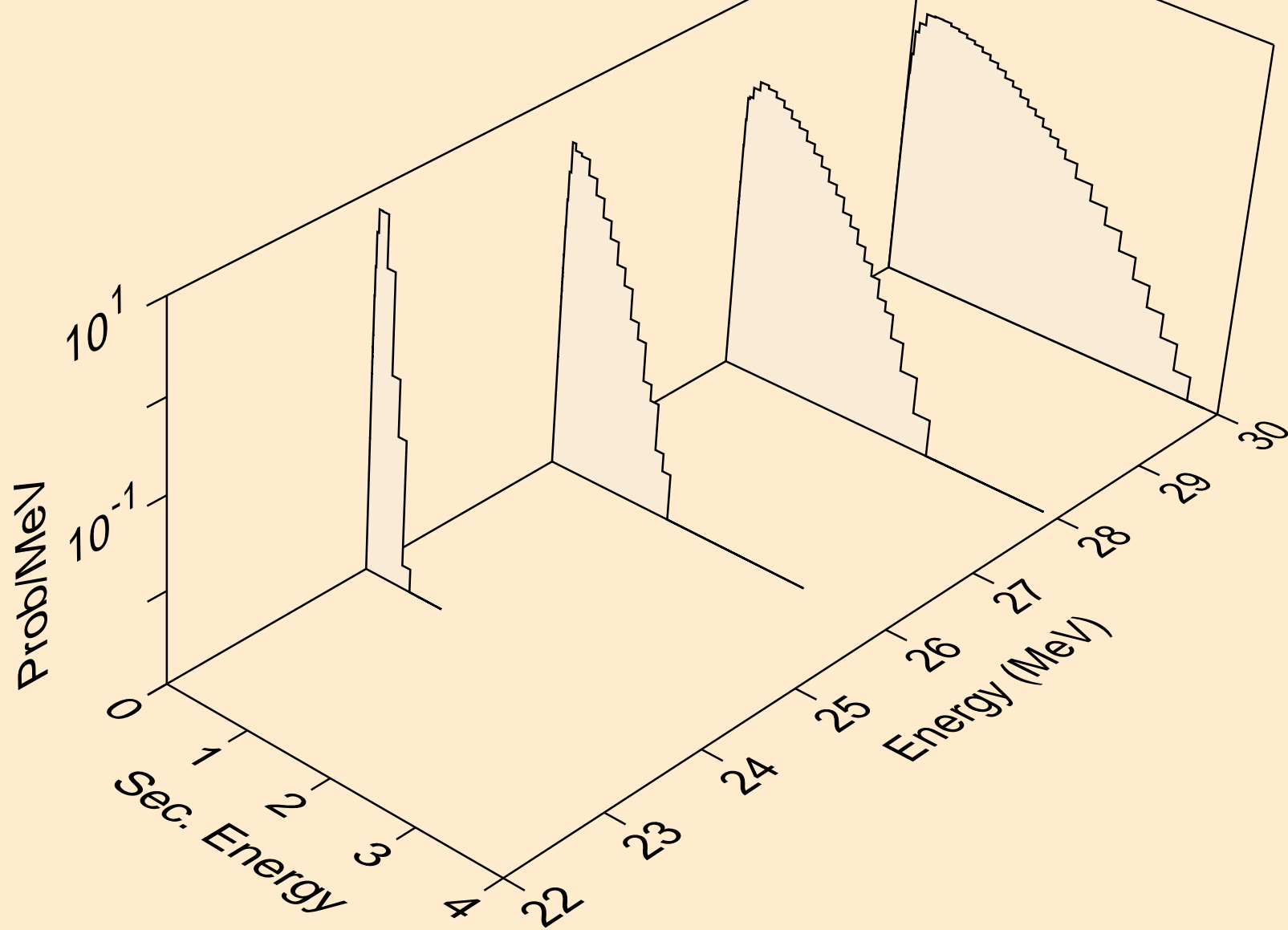


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)

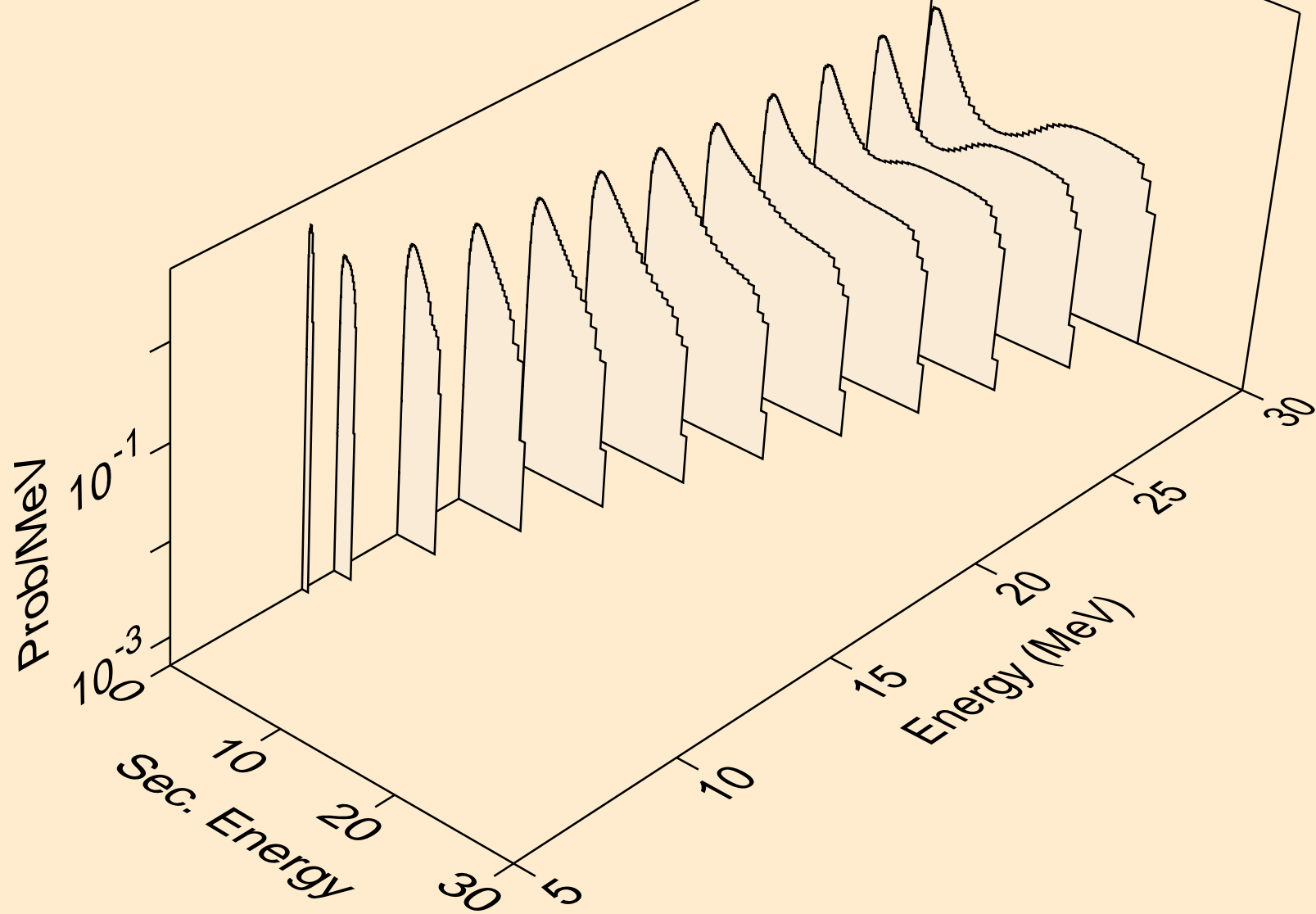




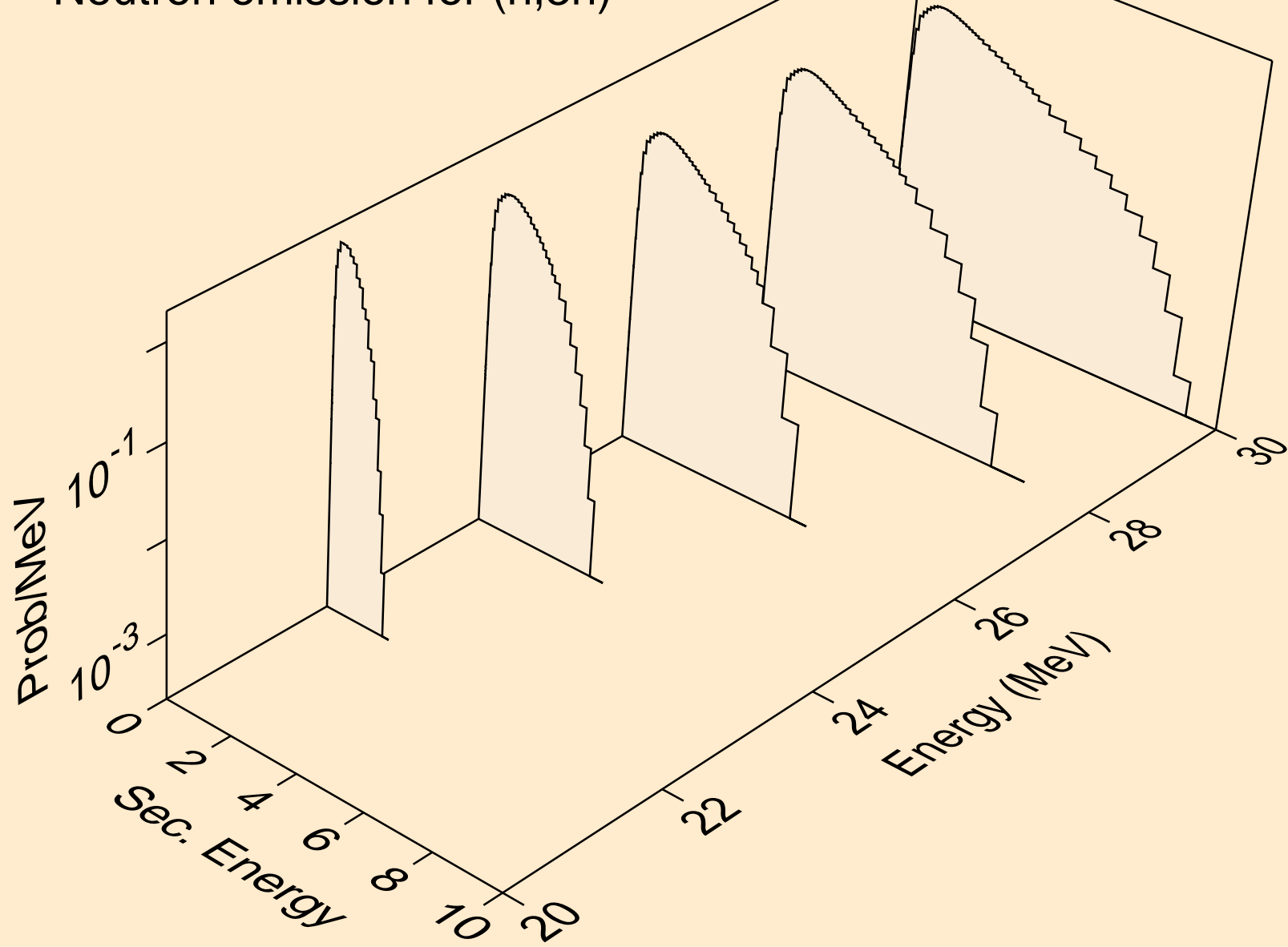
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



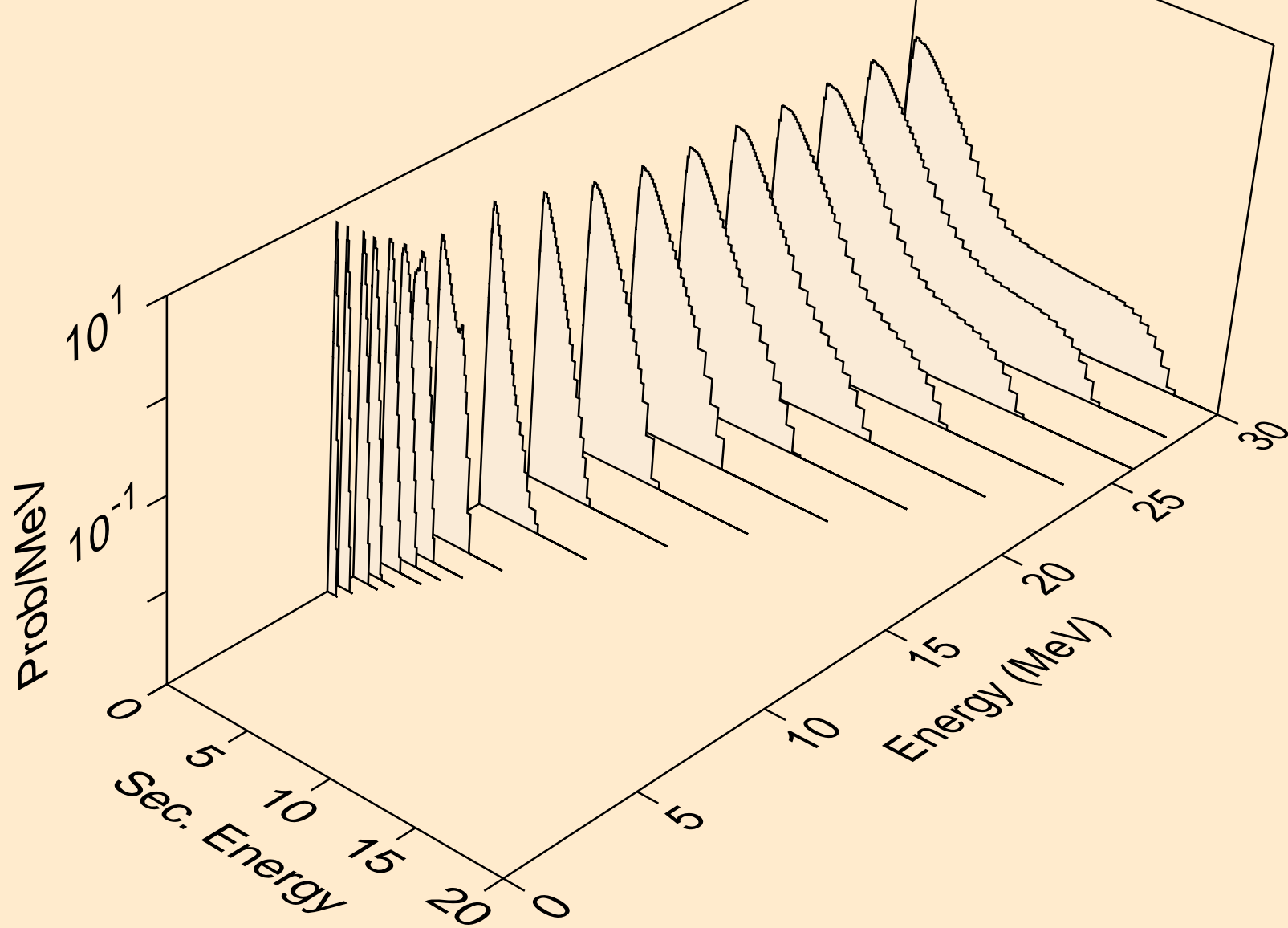
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



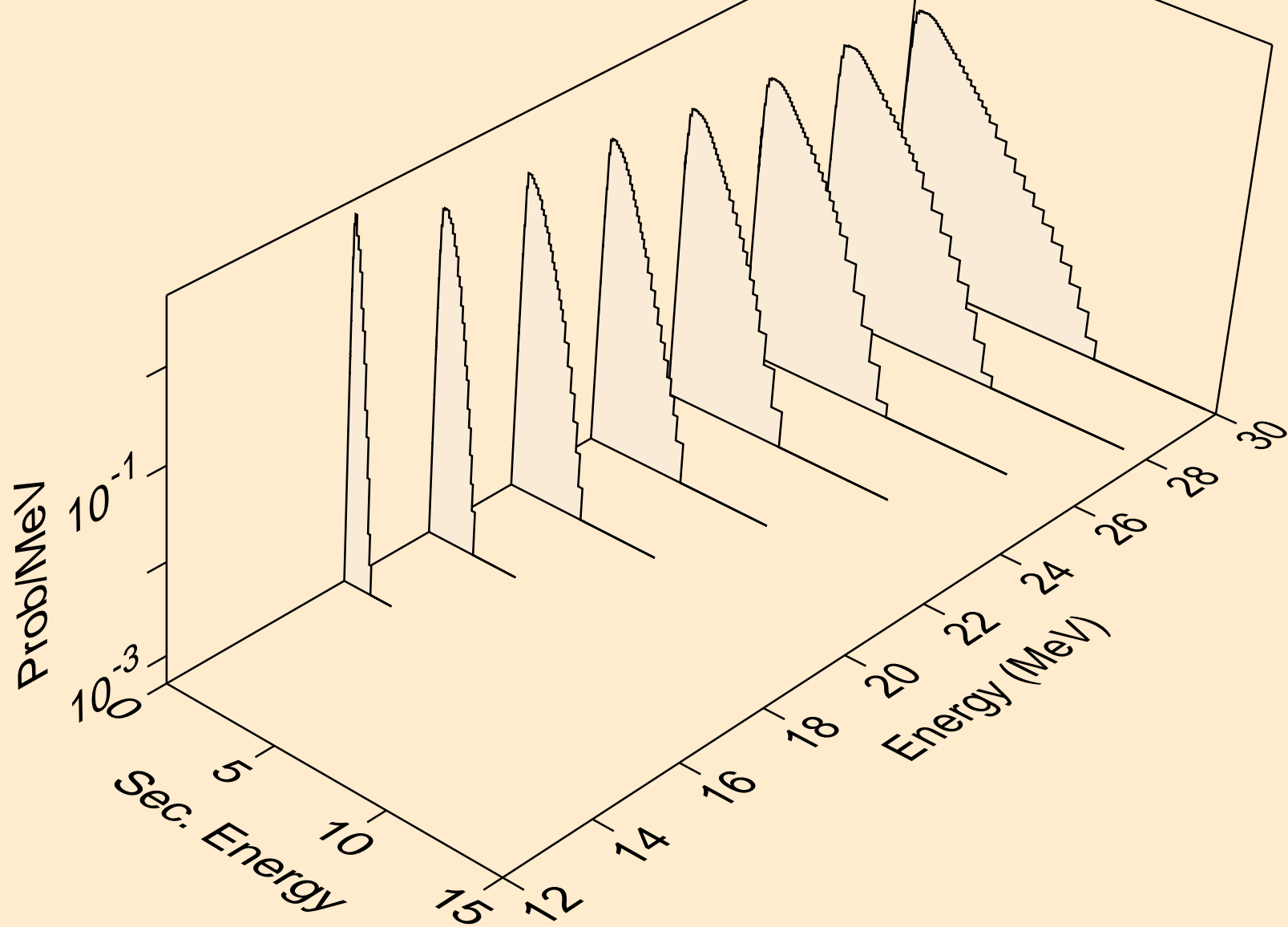
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



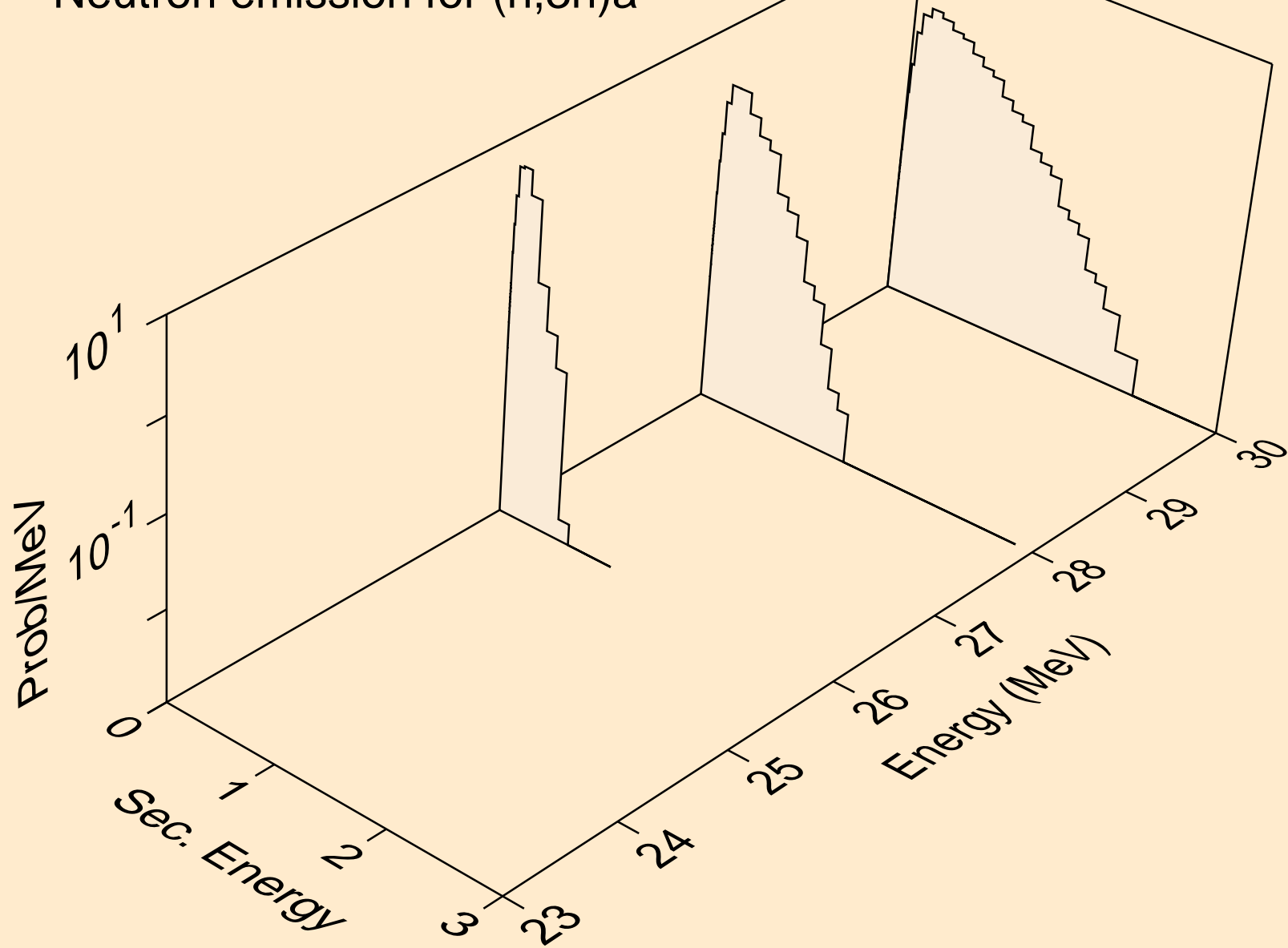
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



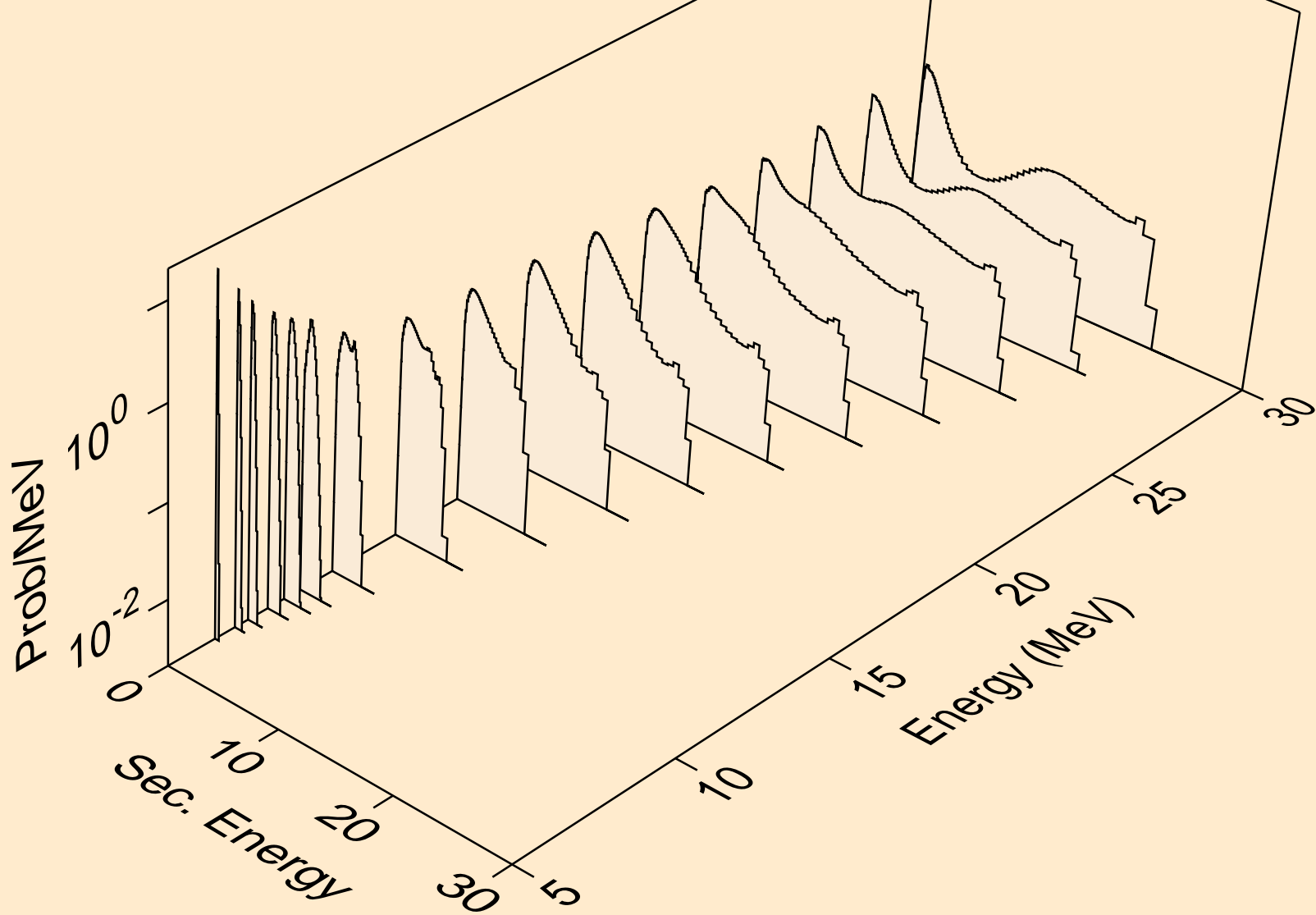
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



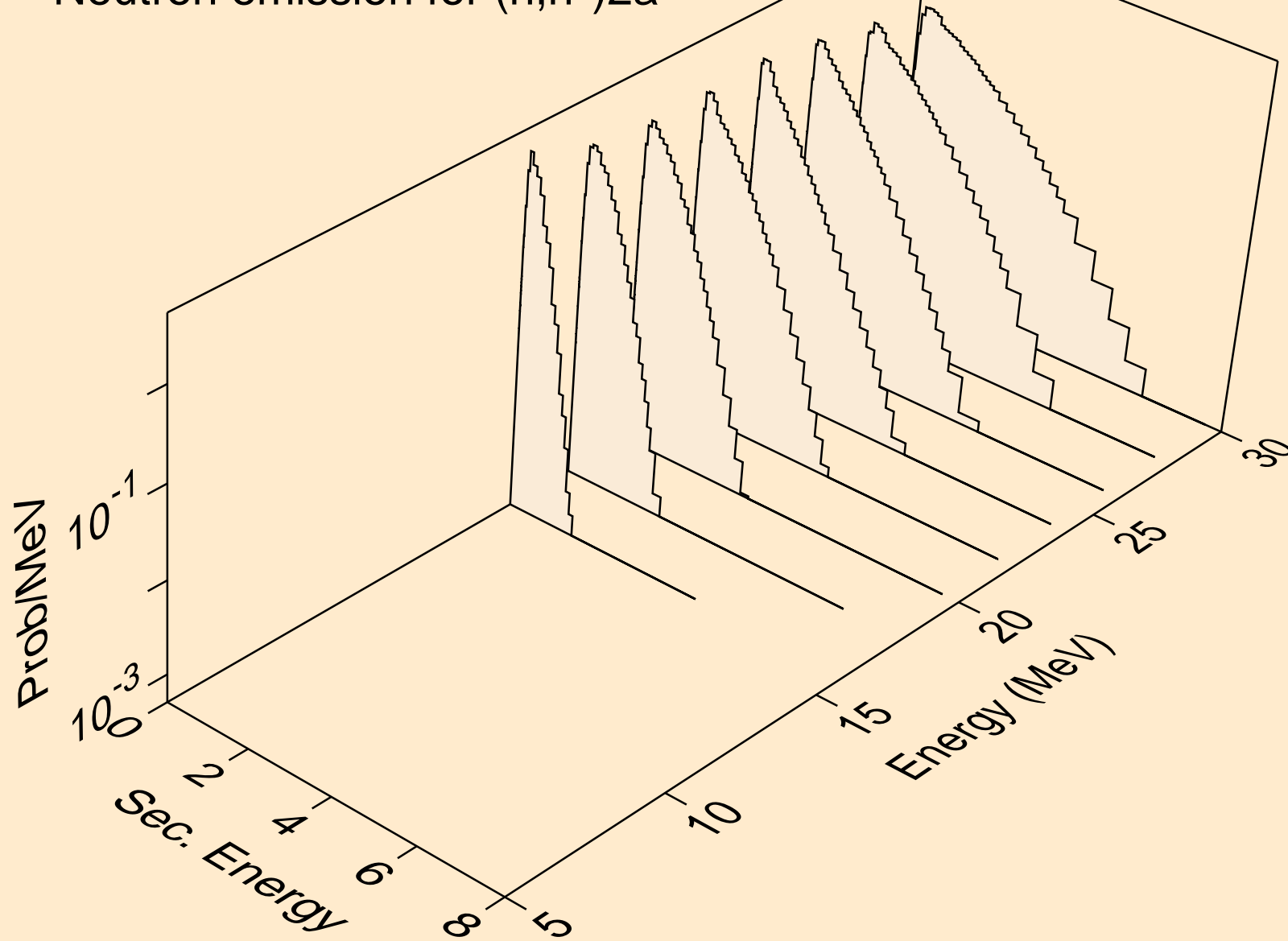
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p

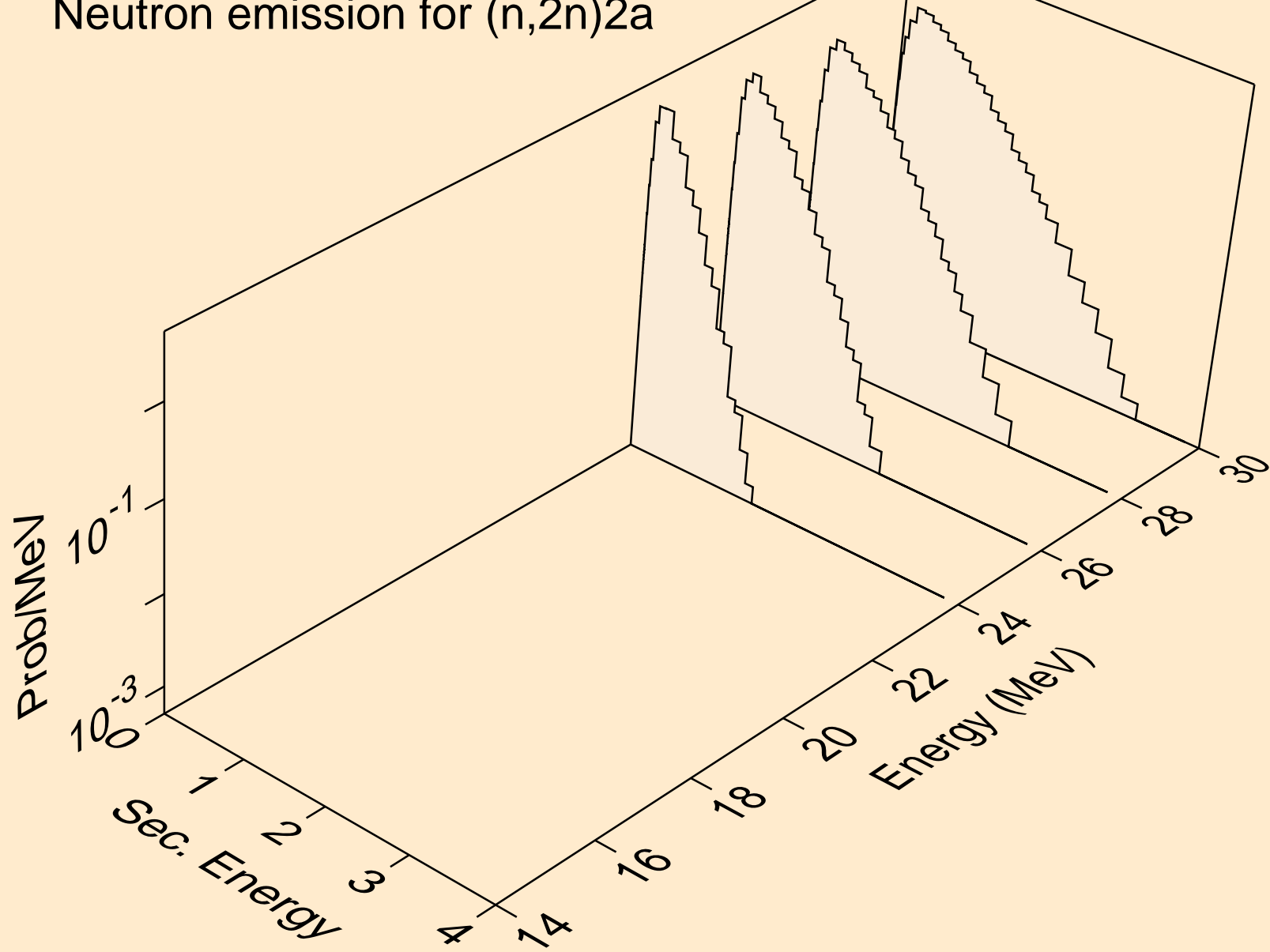


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a

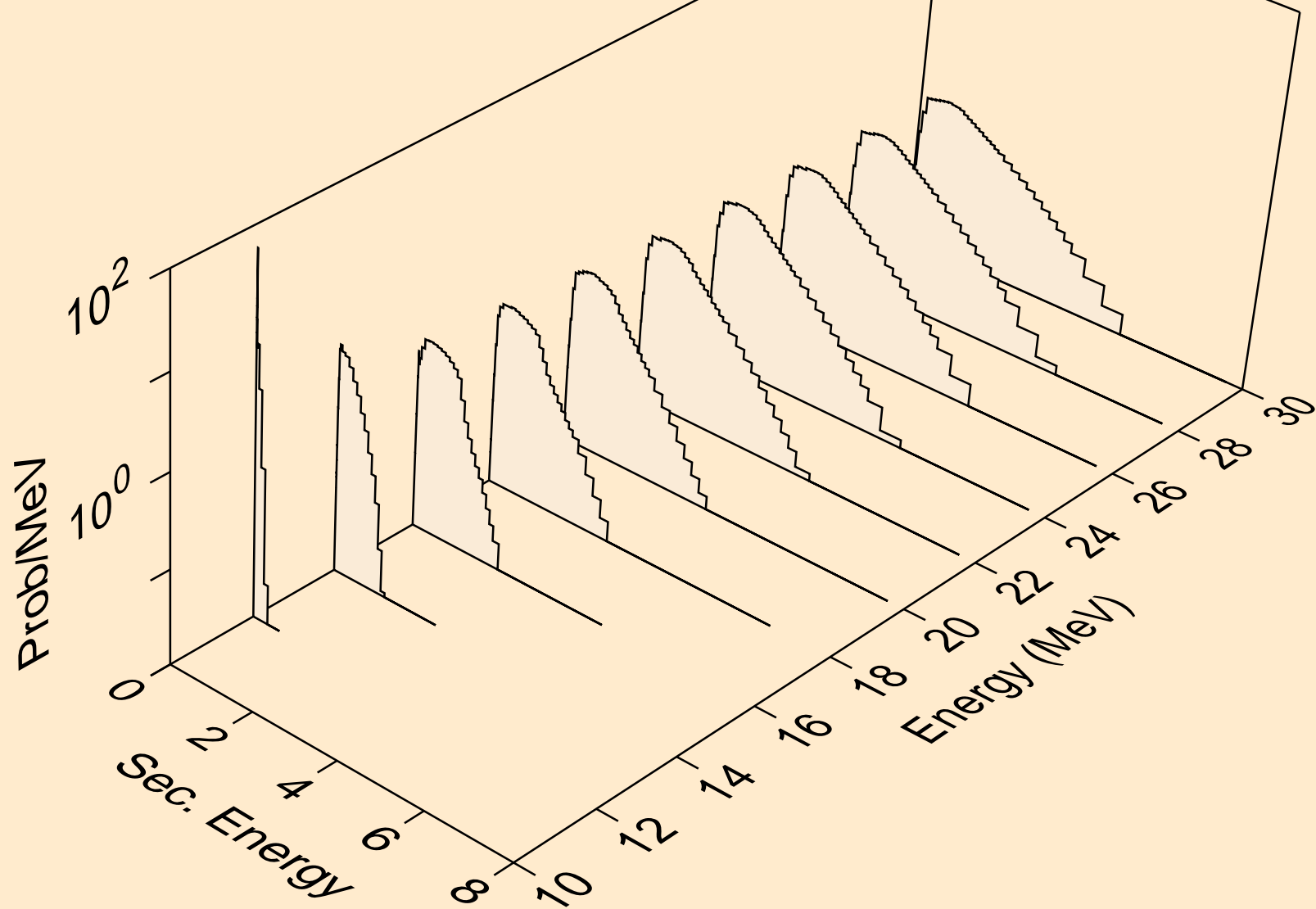




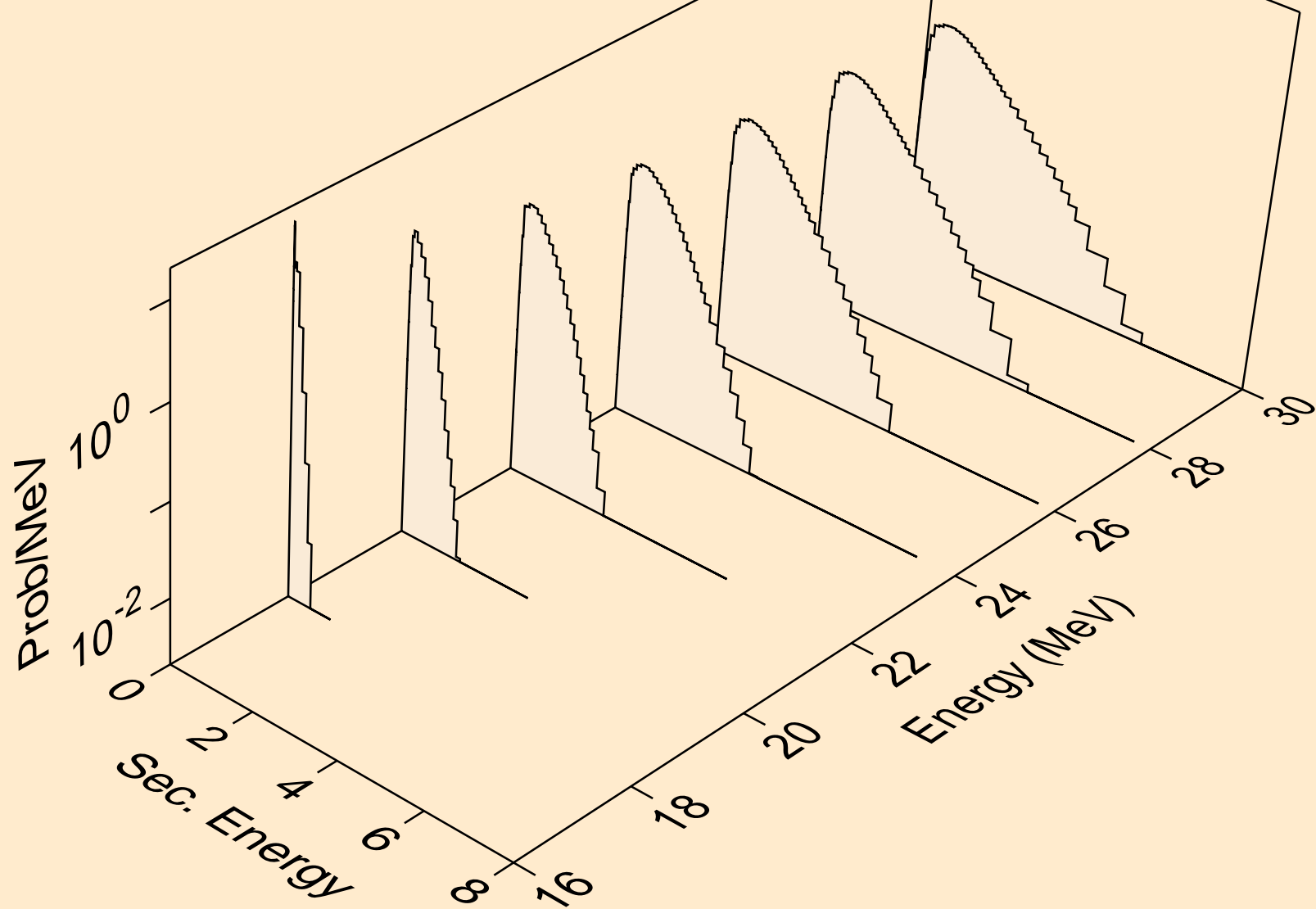
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a



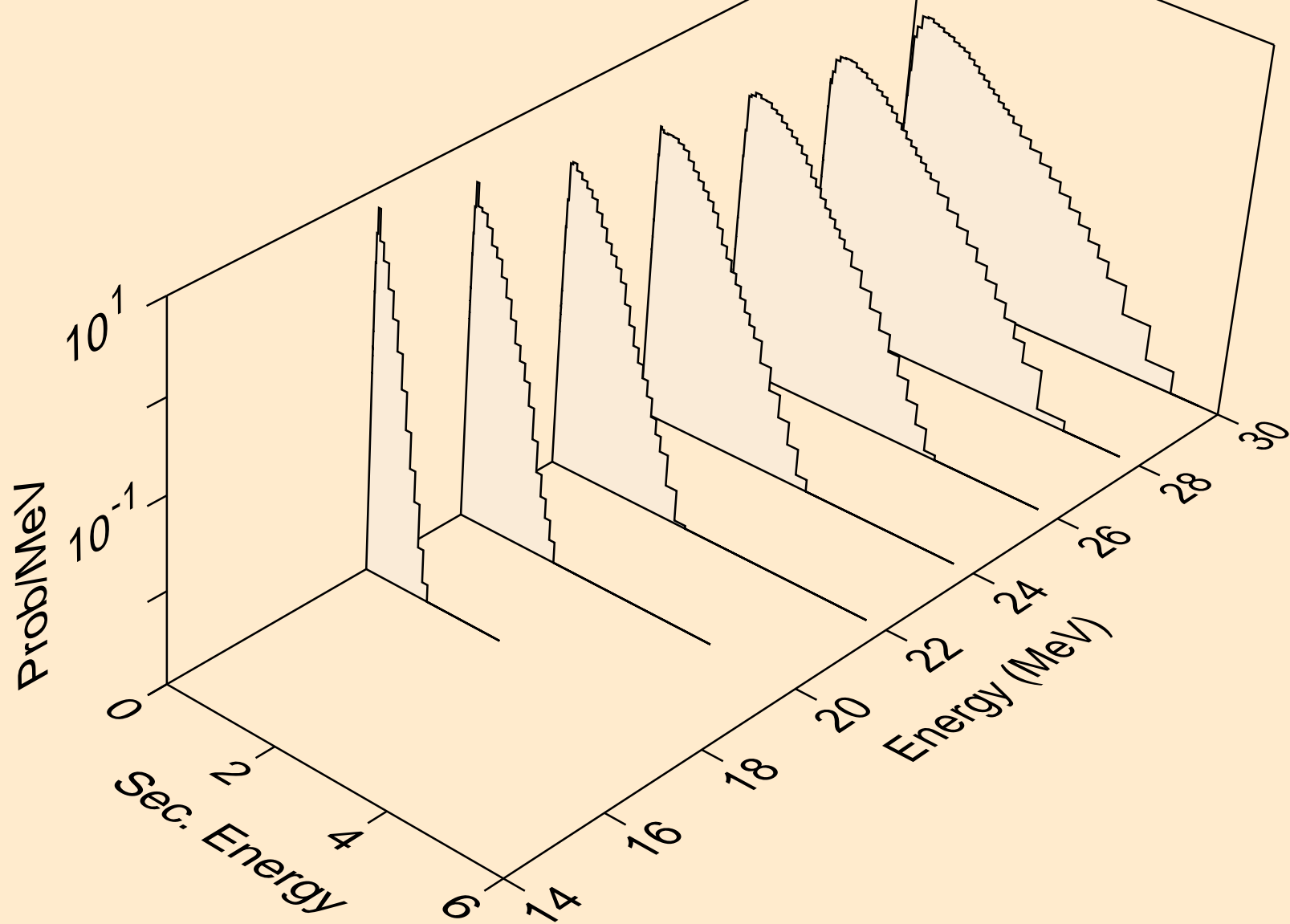
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



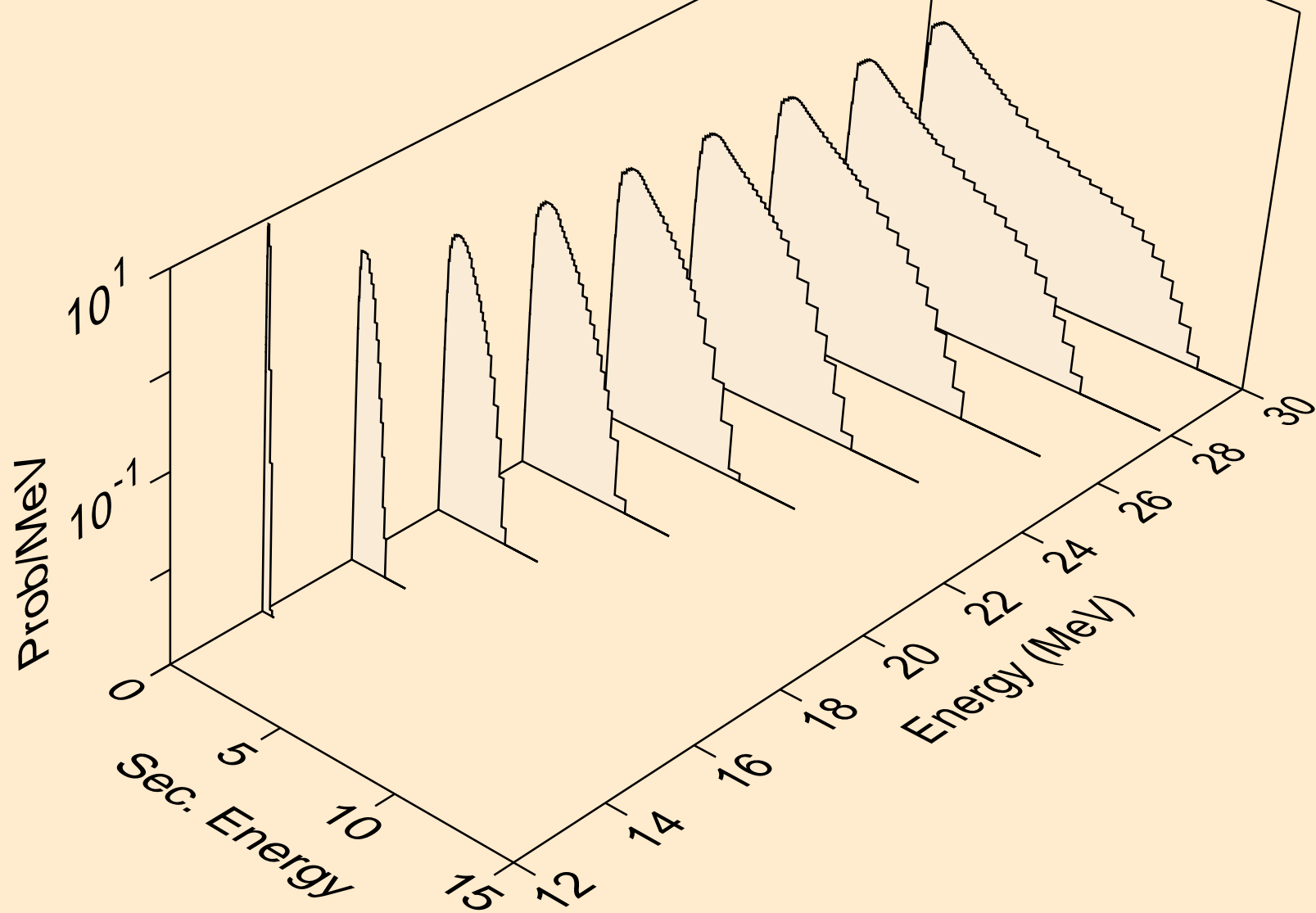
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



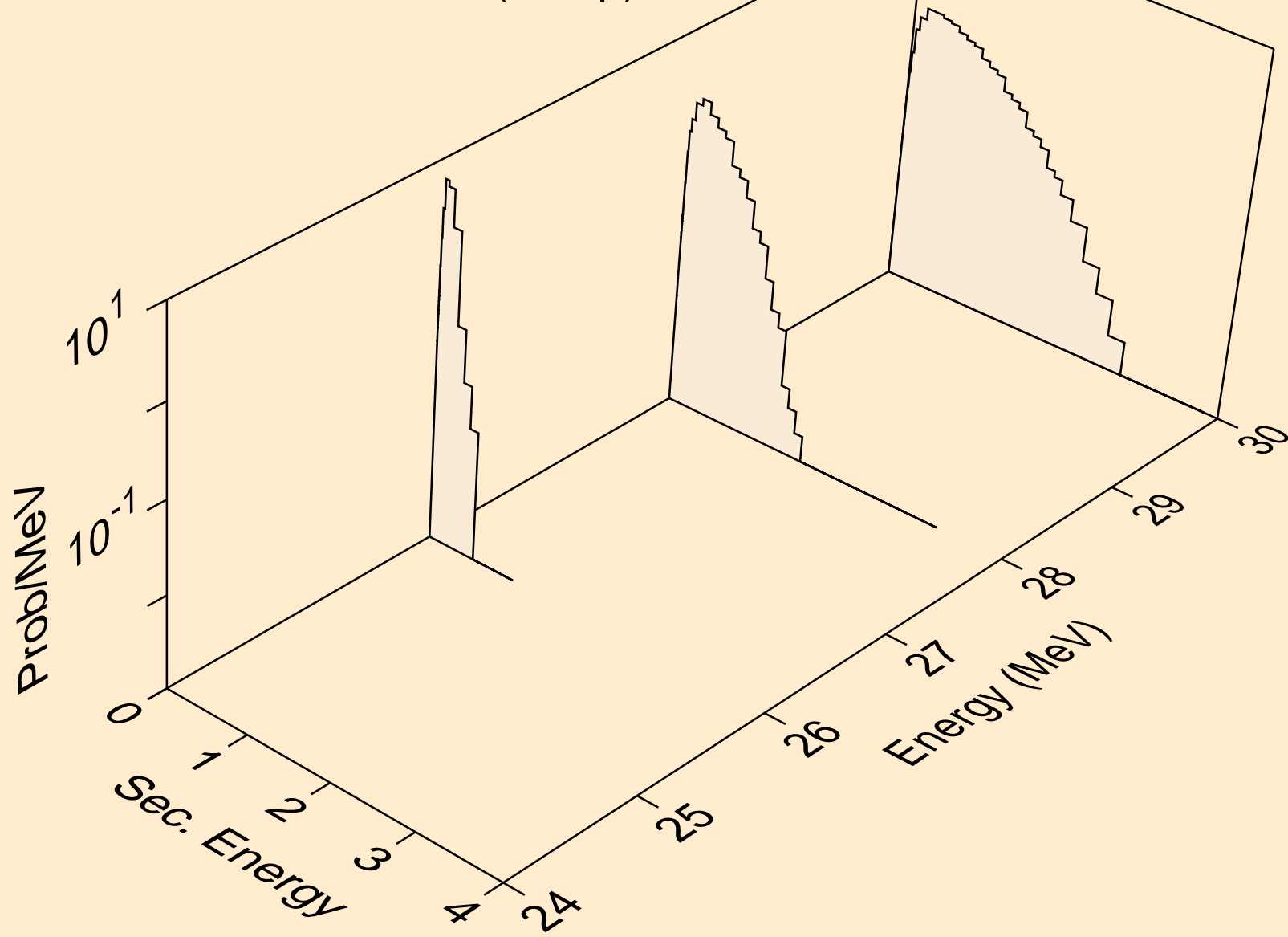
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



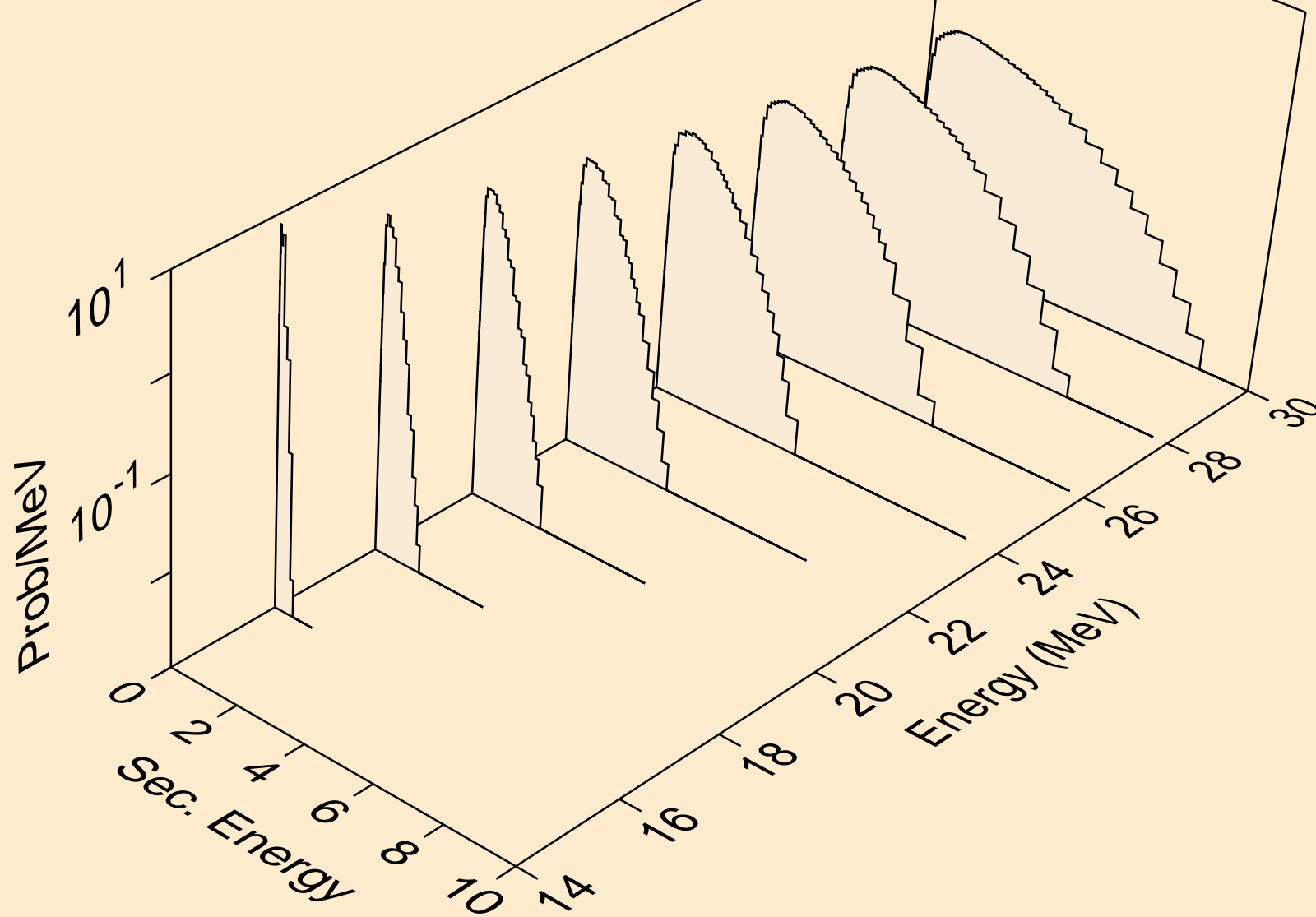
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



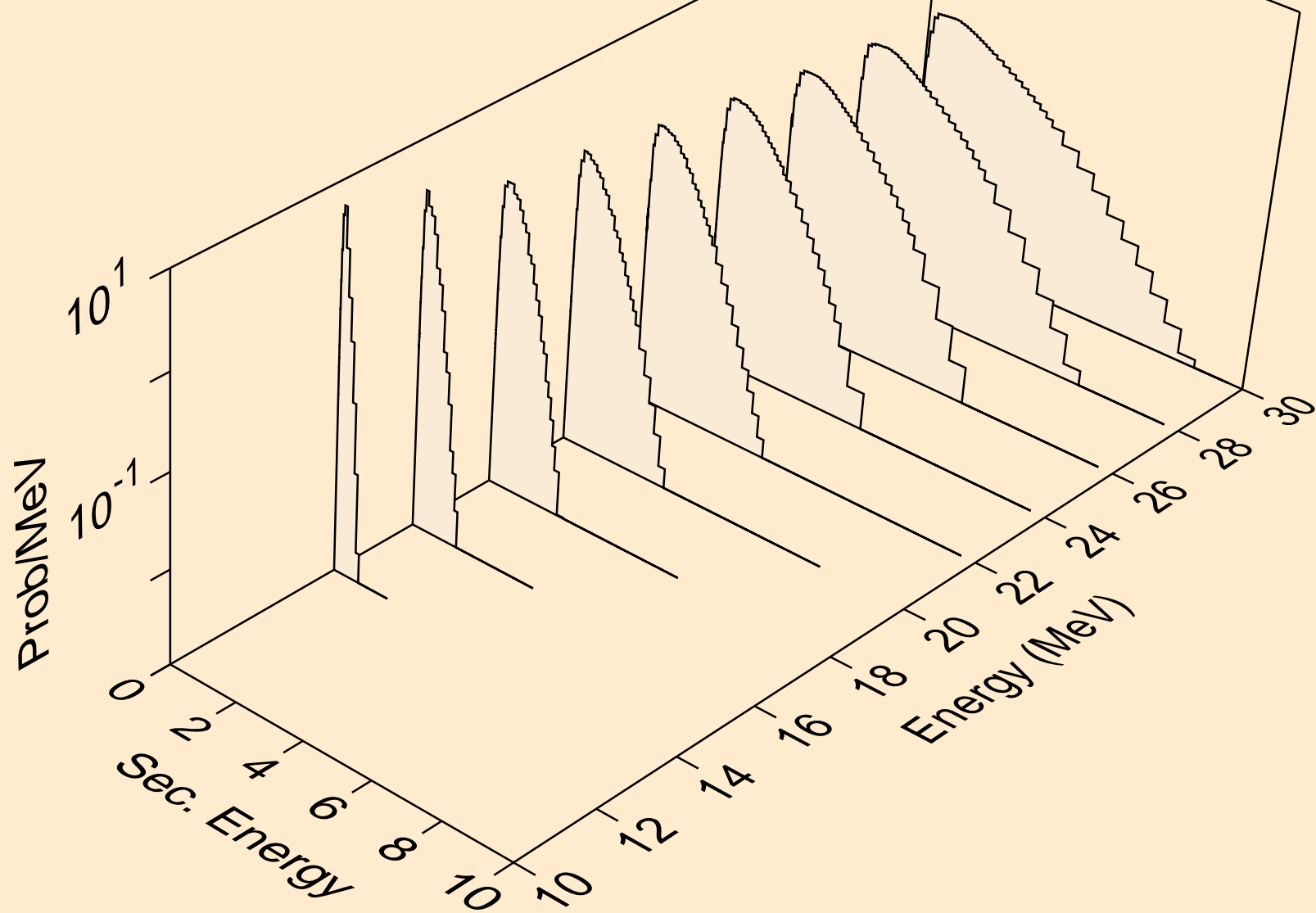
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3np)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

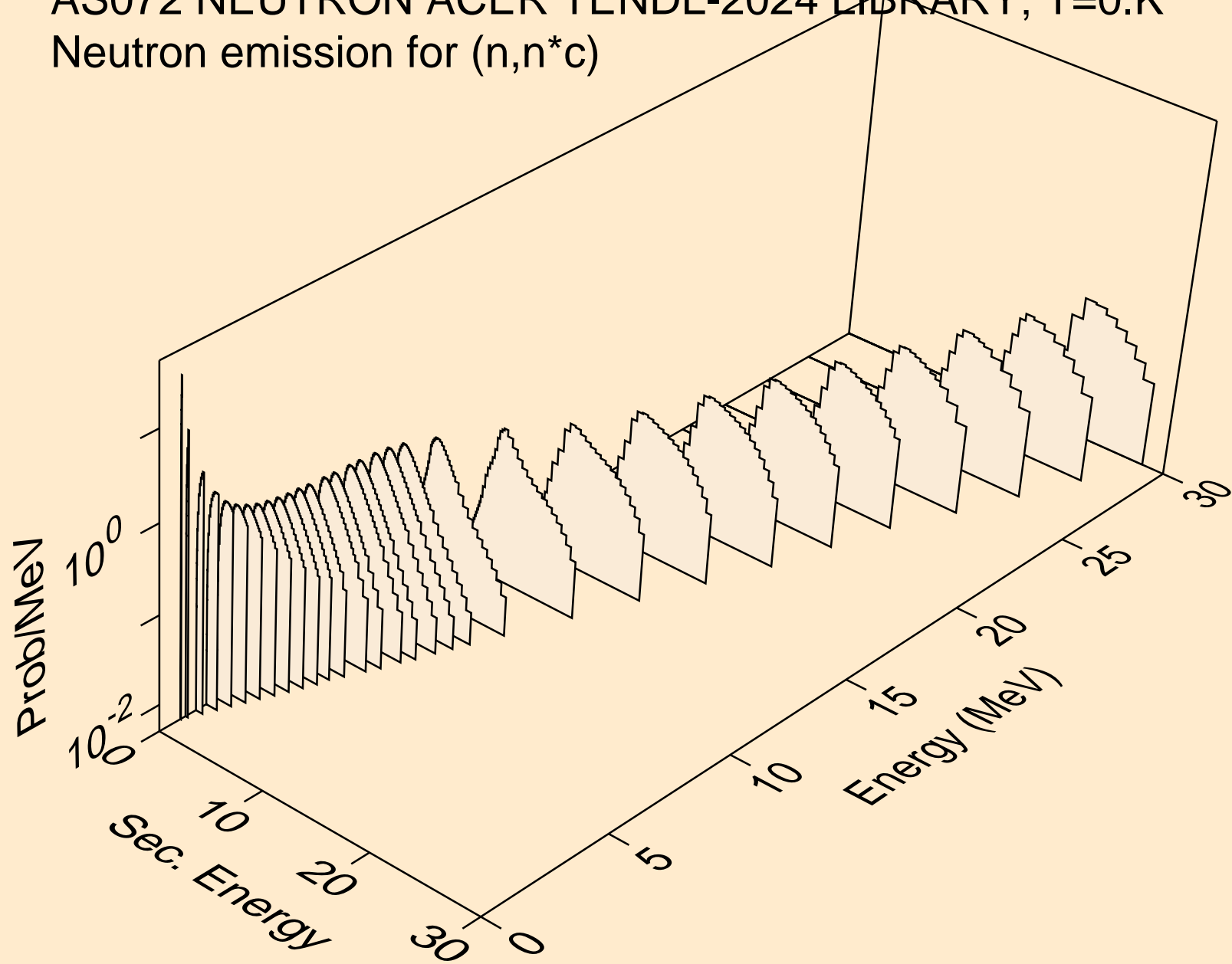


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,npa)

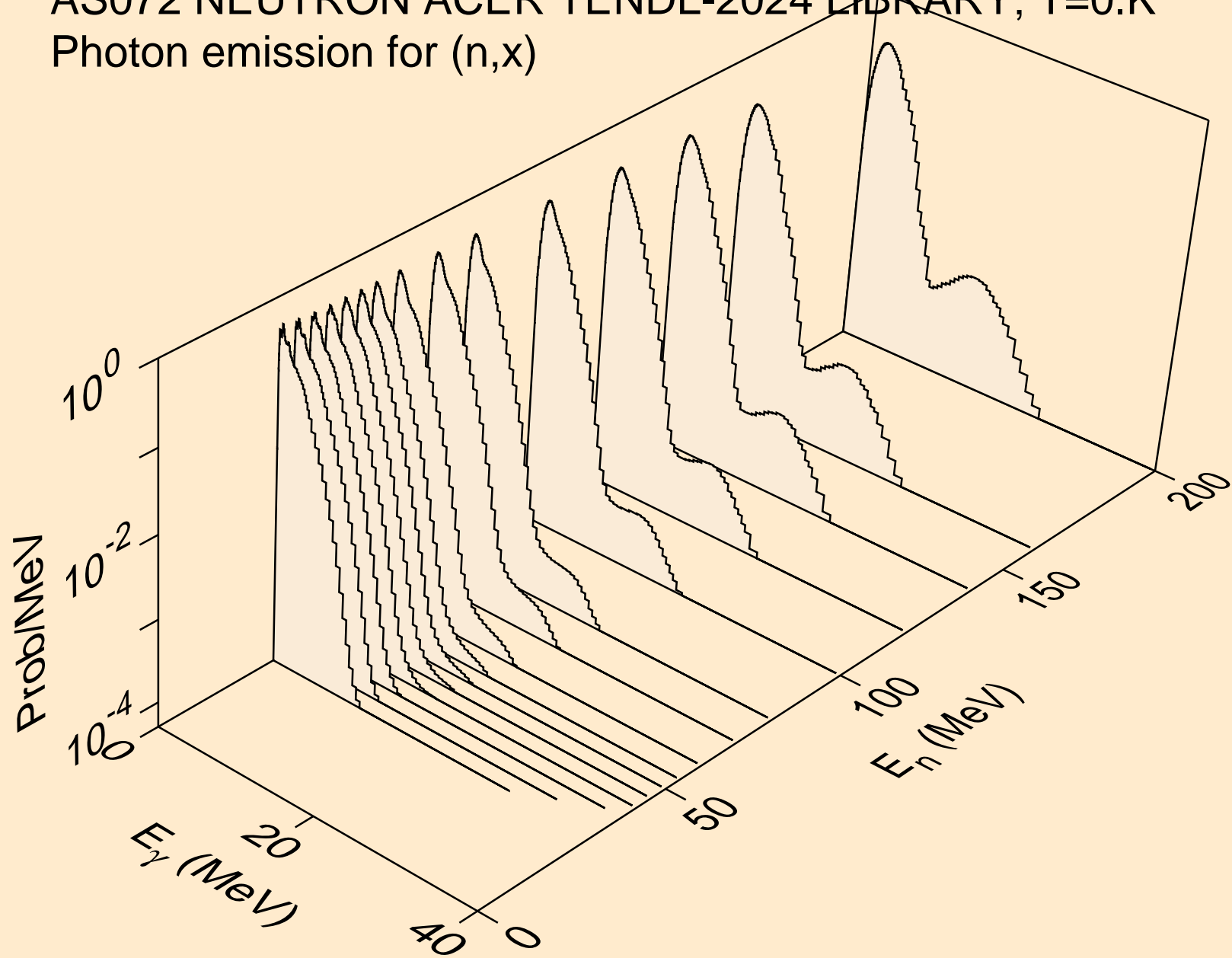




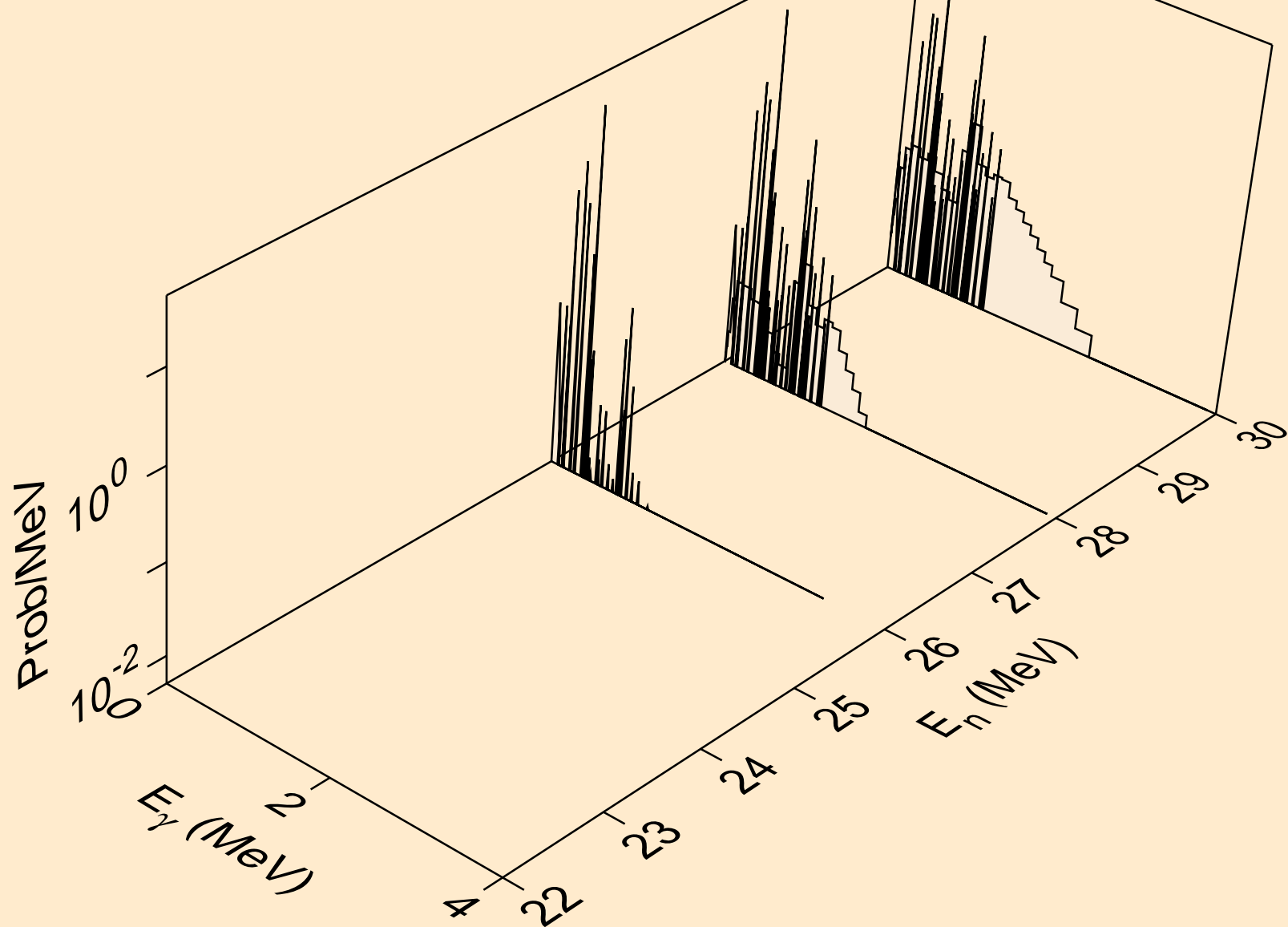
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Neutron emission for (n,n\*c)



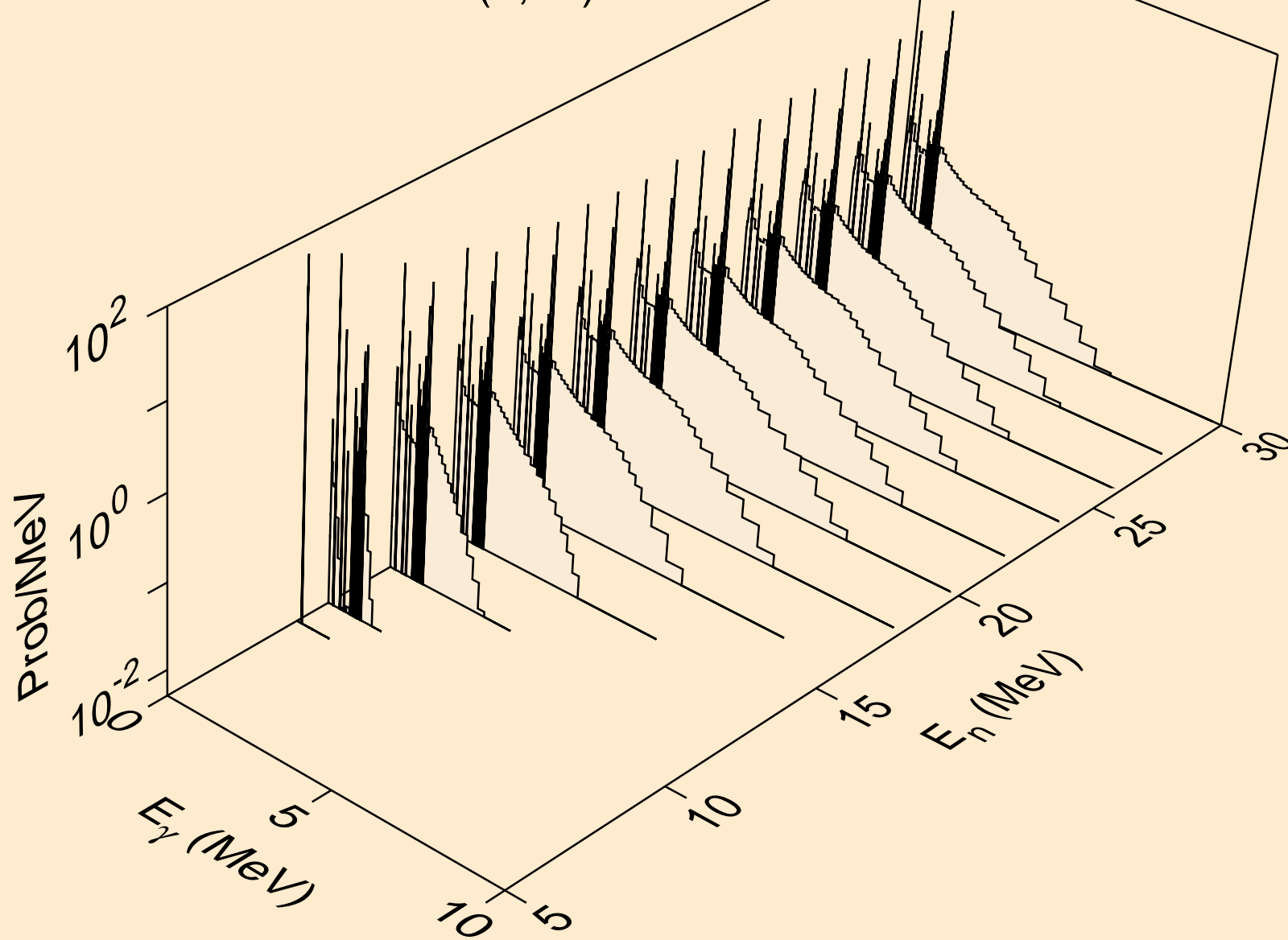
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Photon emission for (n,x)



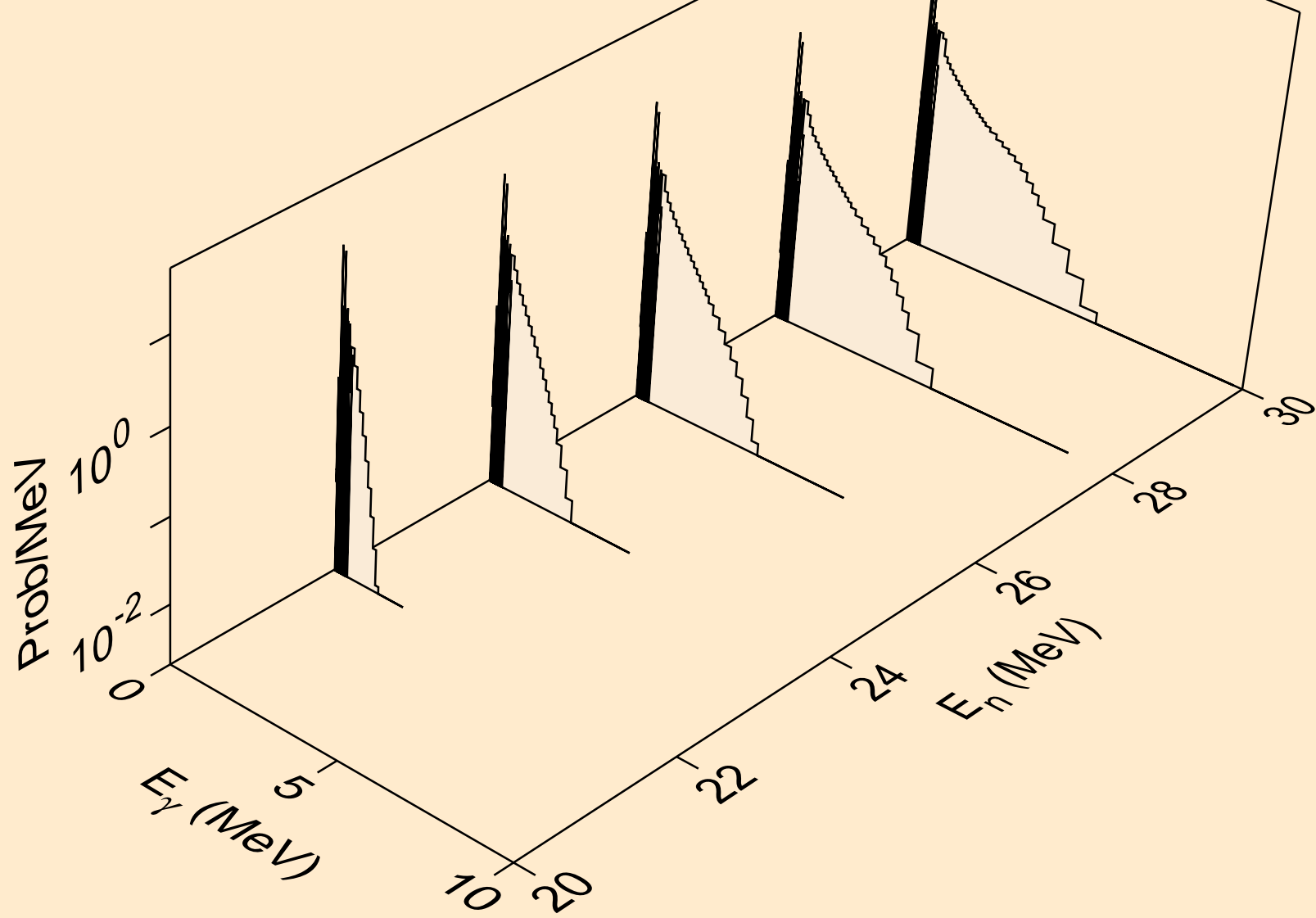
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Photon emission for (n,2nd)



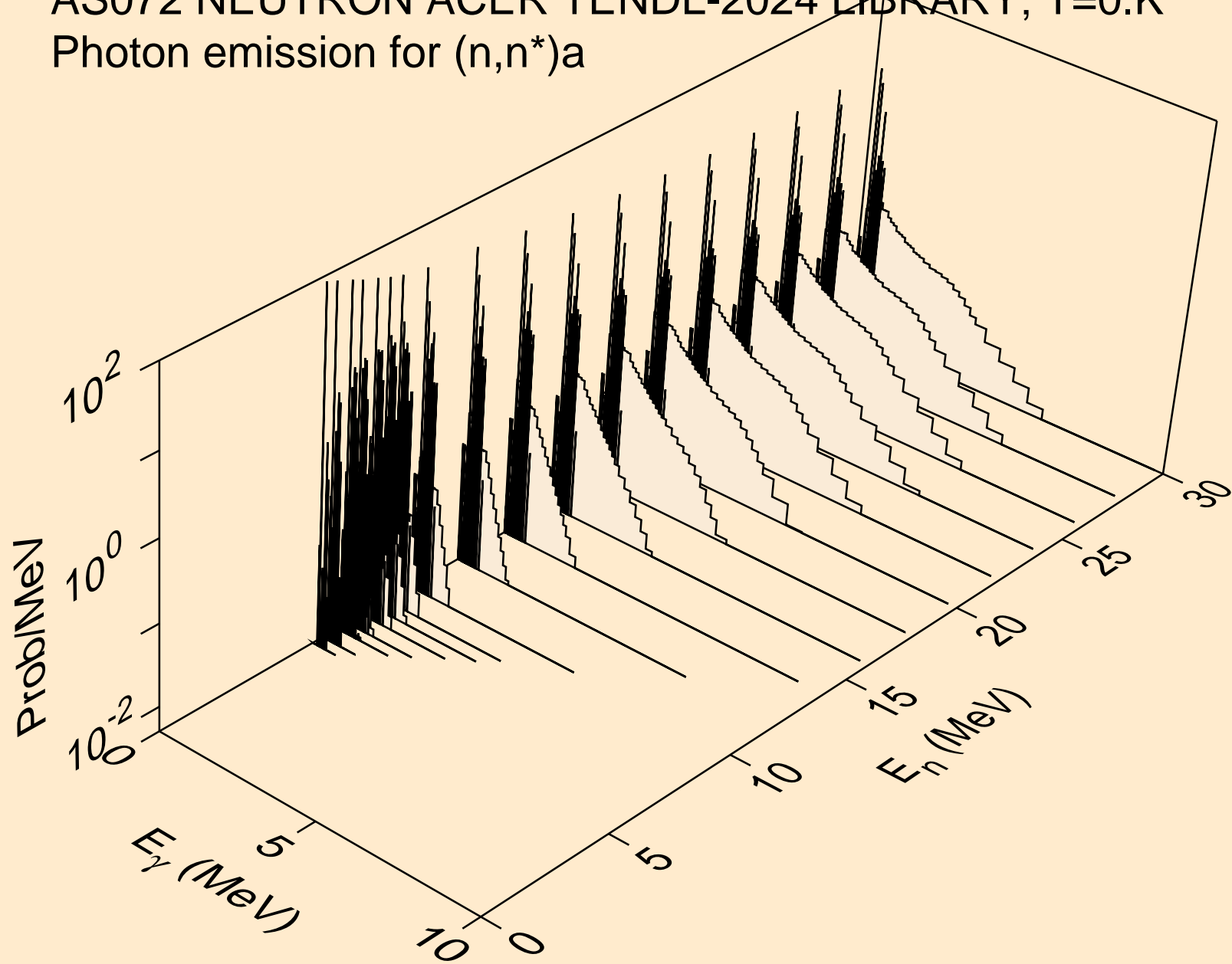
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Photon emission for (n,2n)



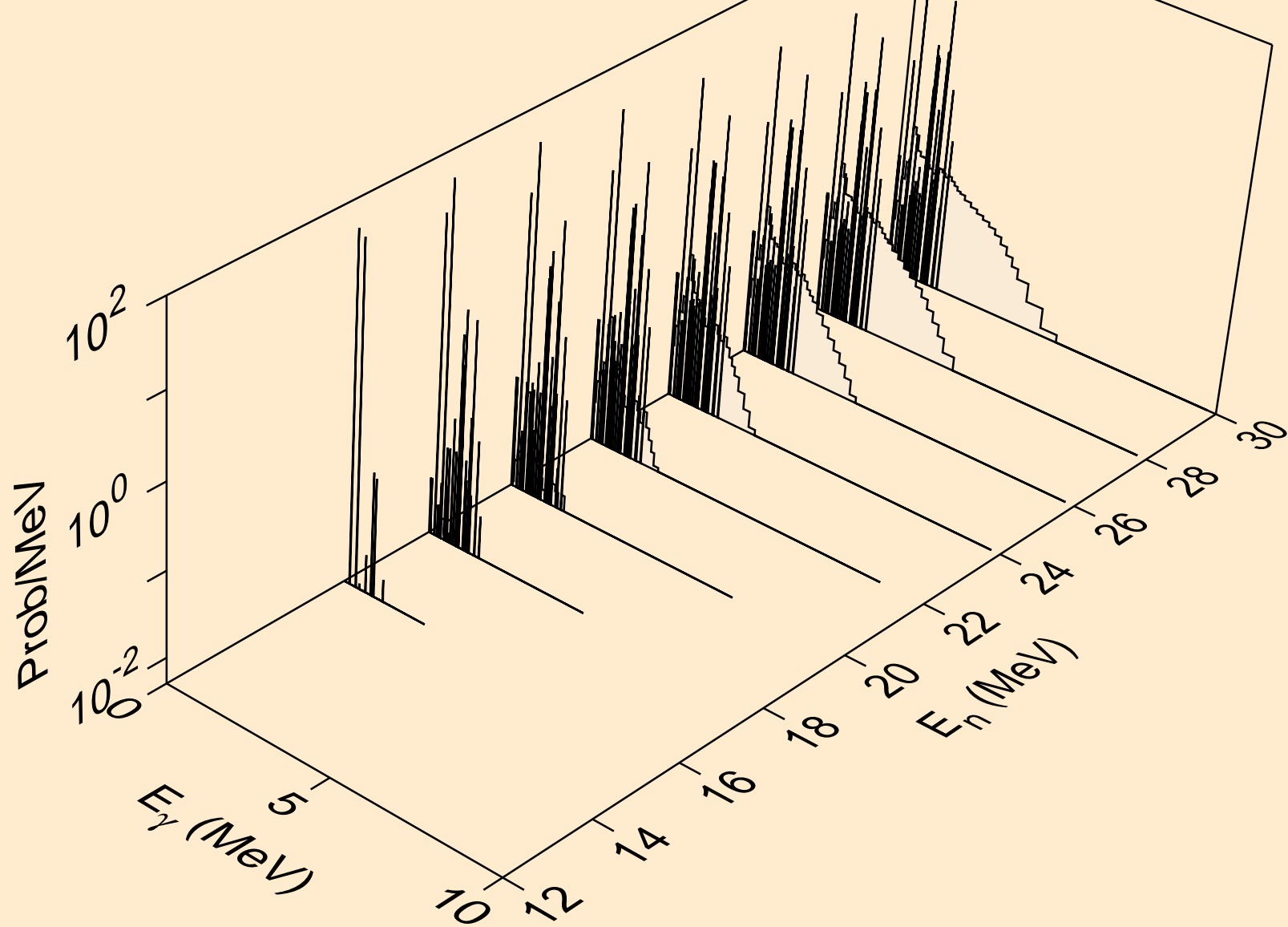
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Photon emission for (n,3n)



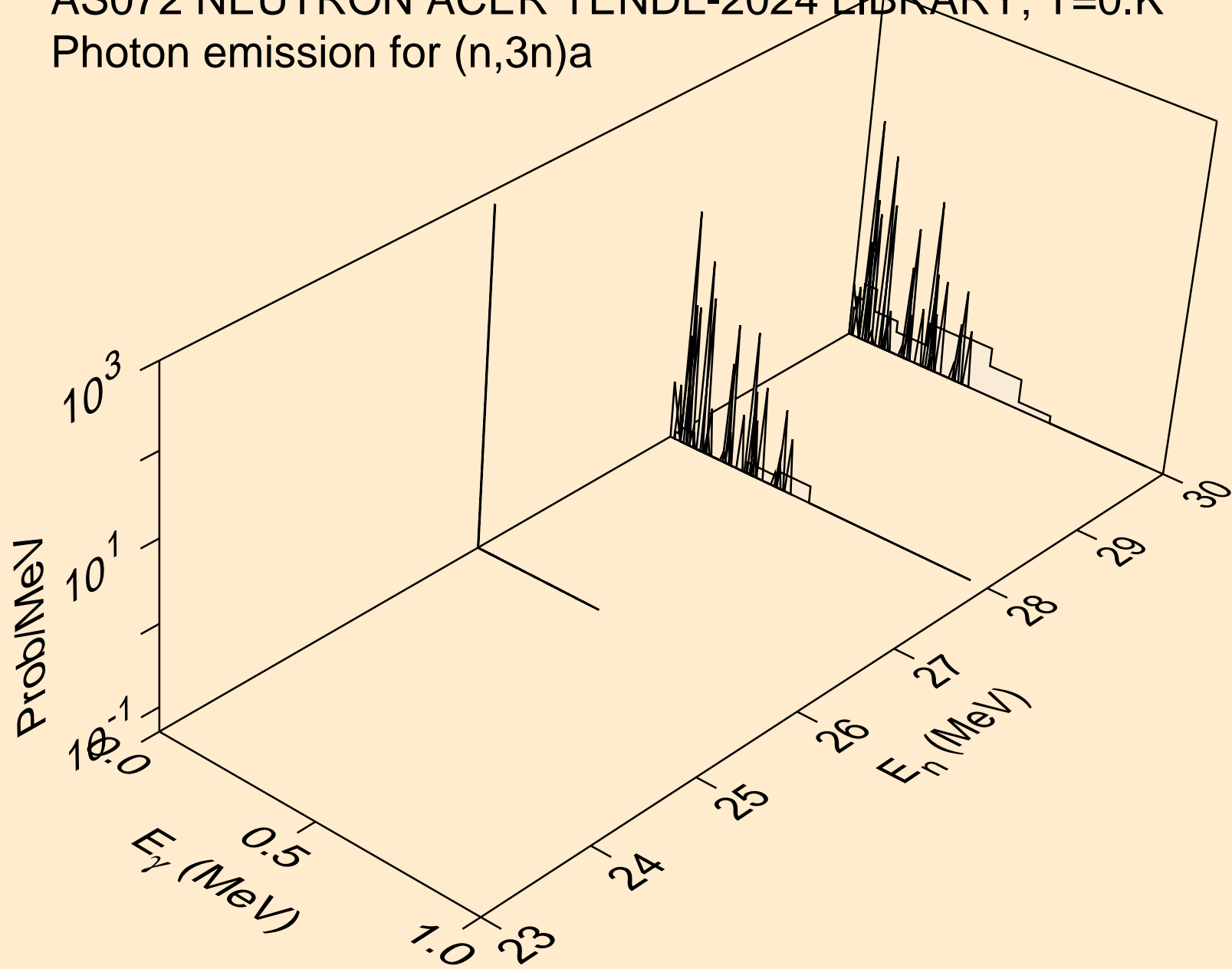
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a

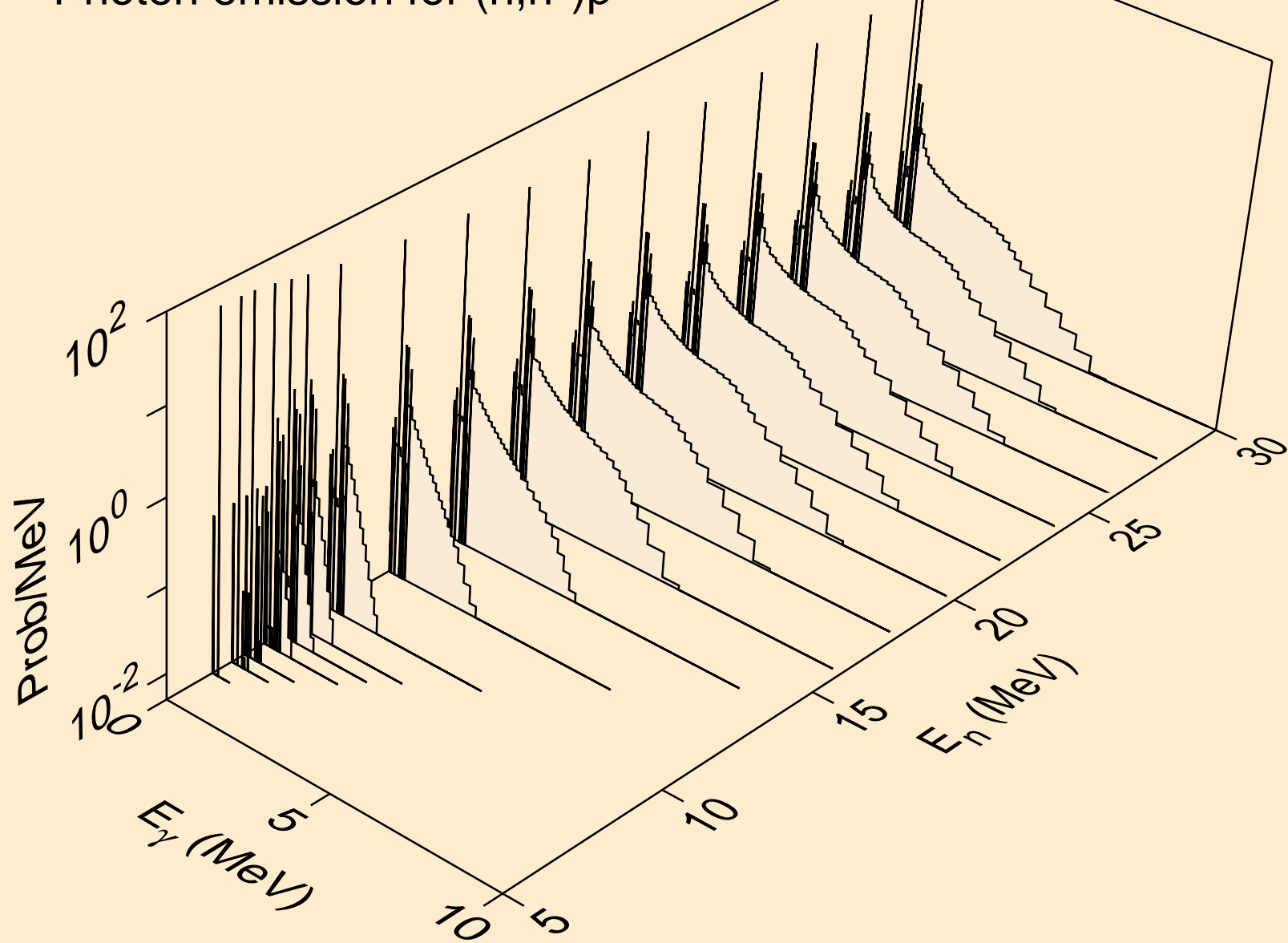


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Photon emission for (n,3n)a

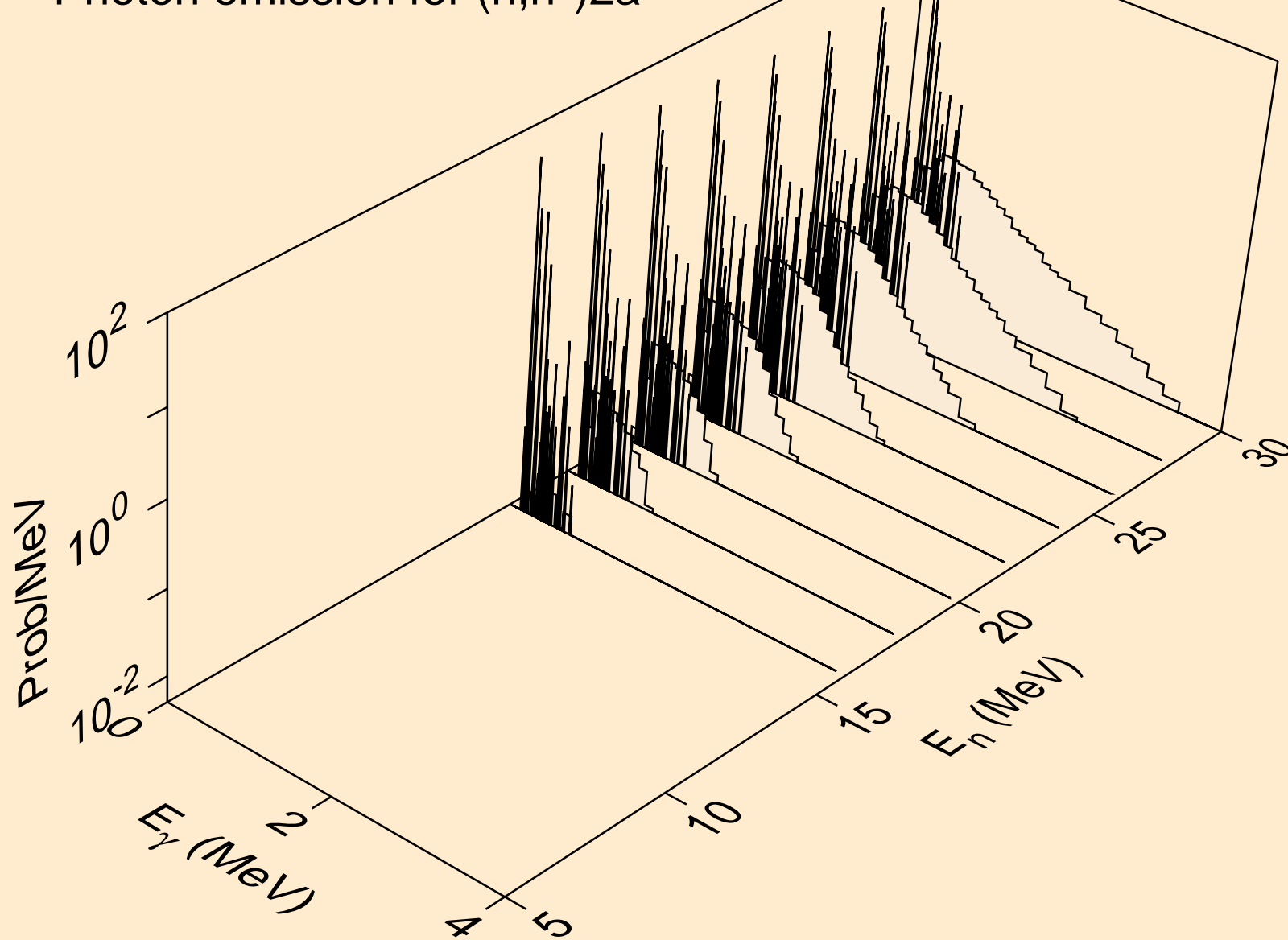




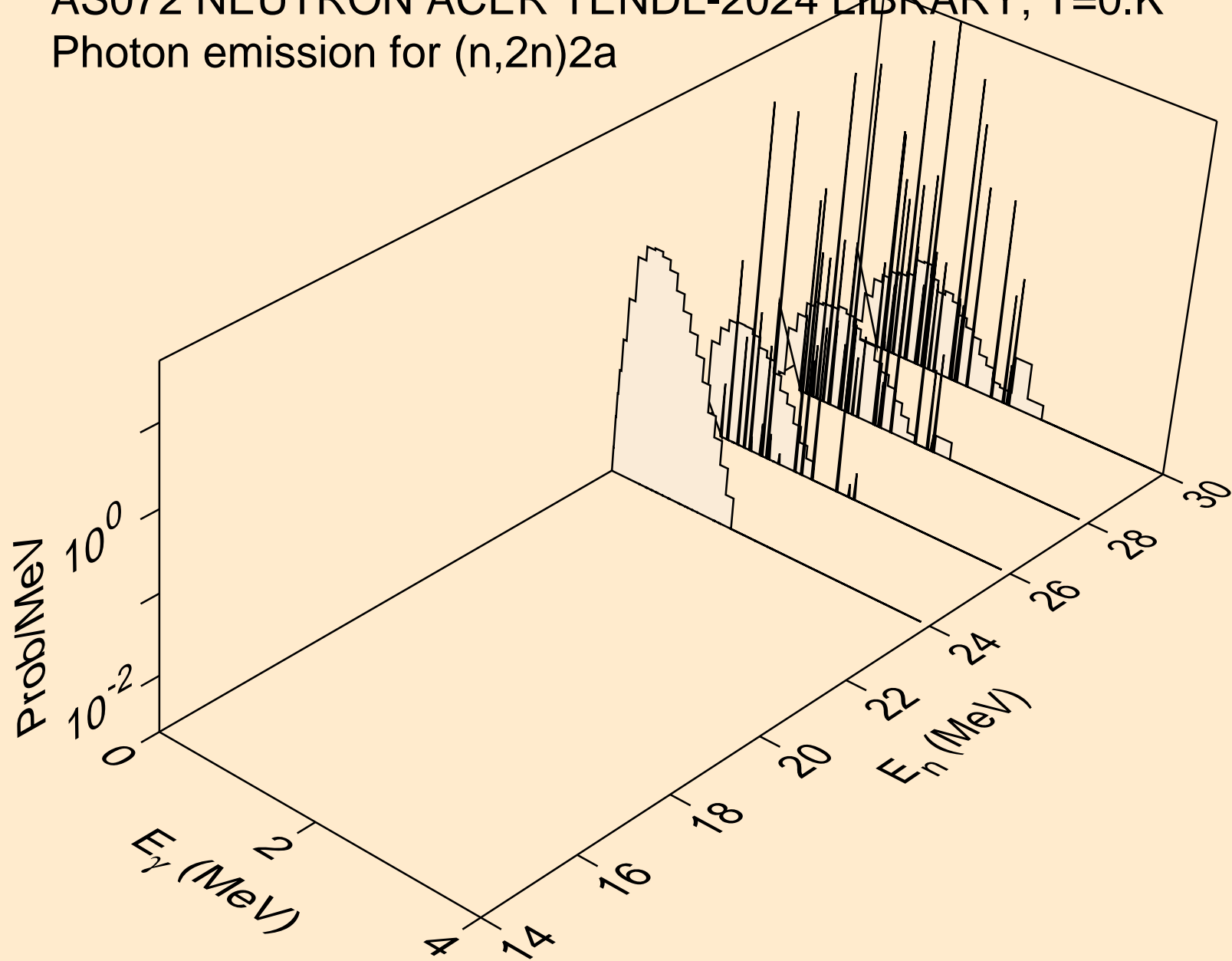
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Photon emission for (n,n\*)p



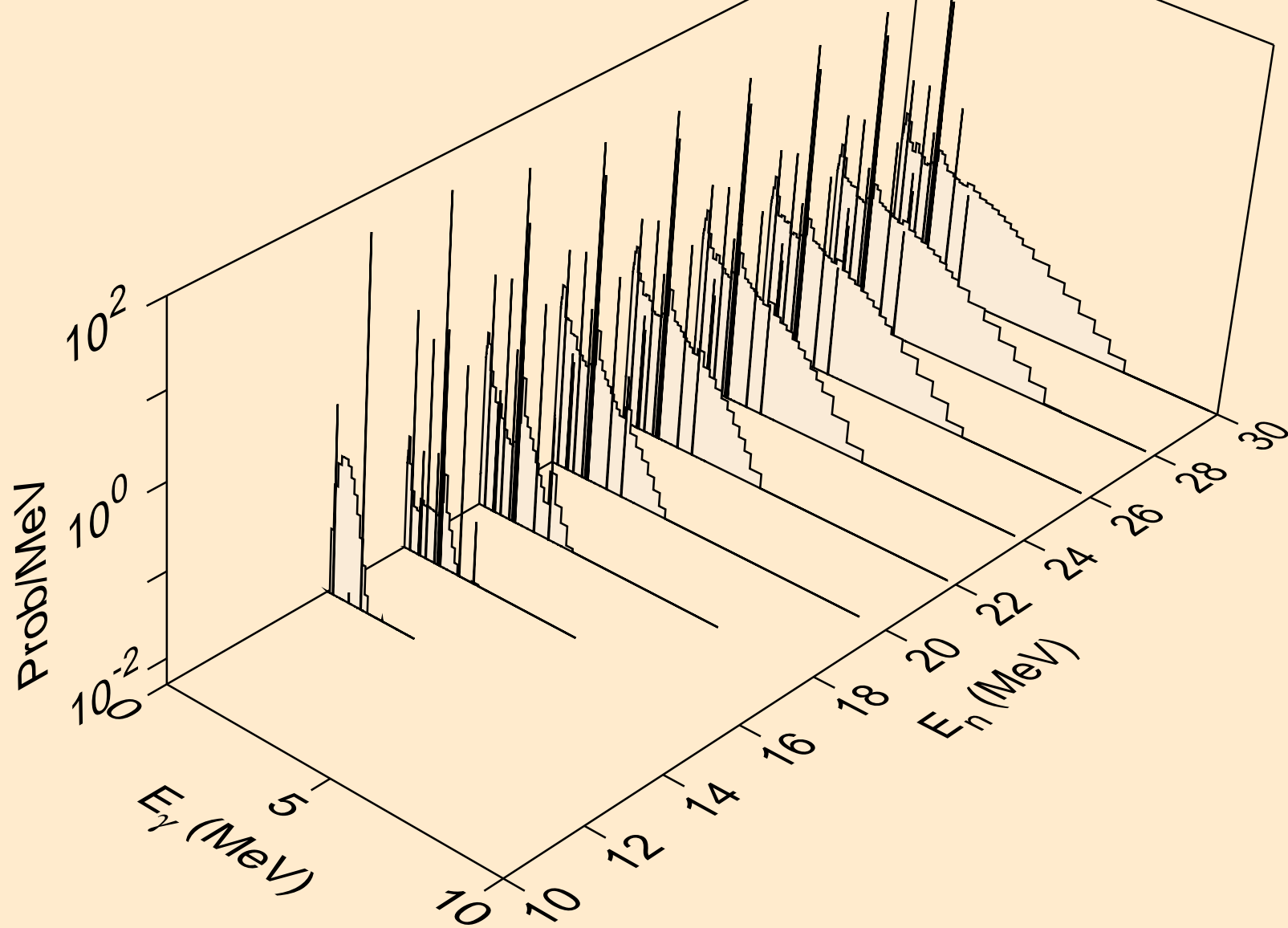
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Photon emission for (n,n\*)2a



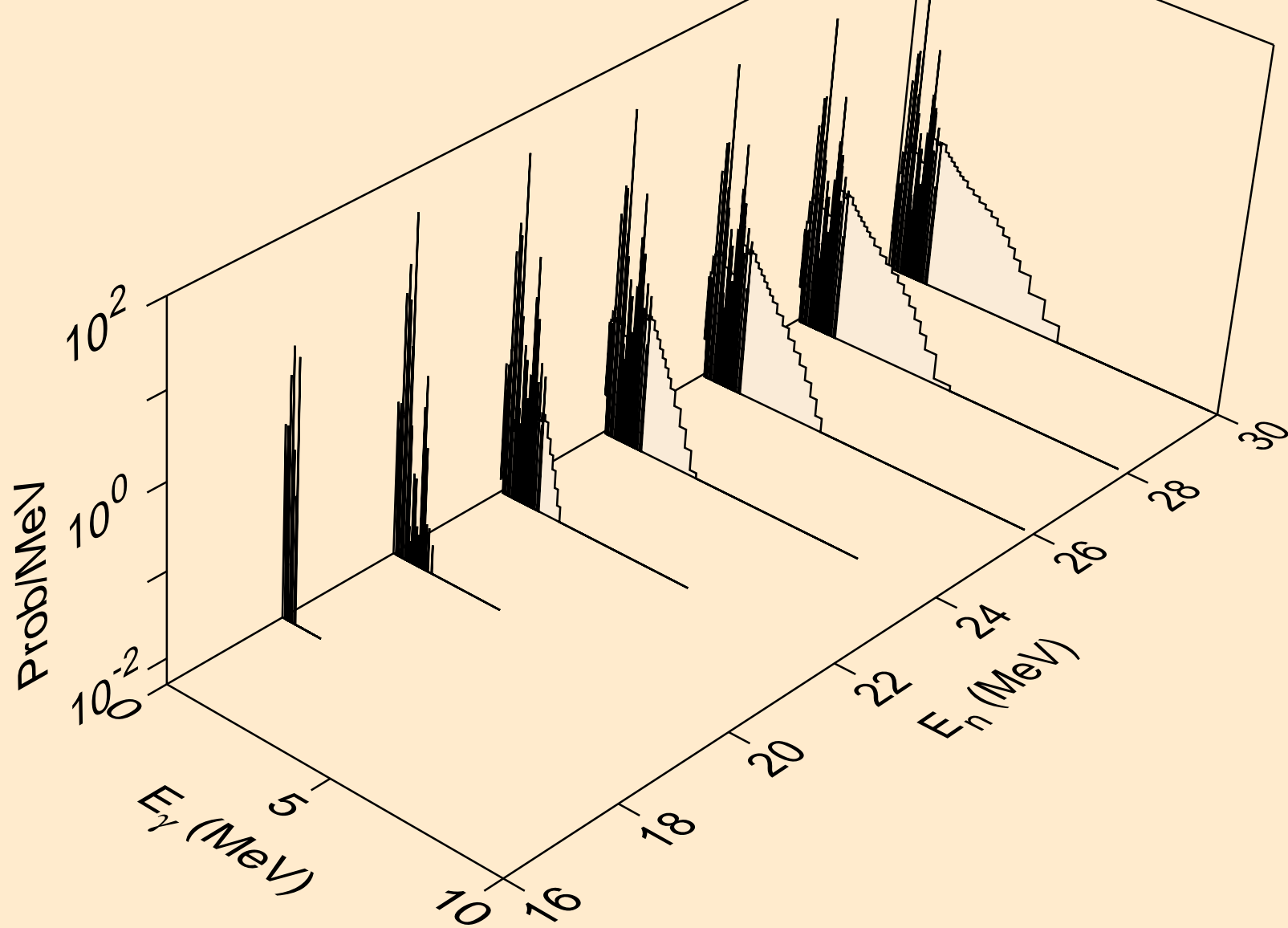
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Photon emission for (n,2n)2a



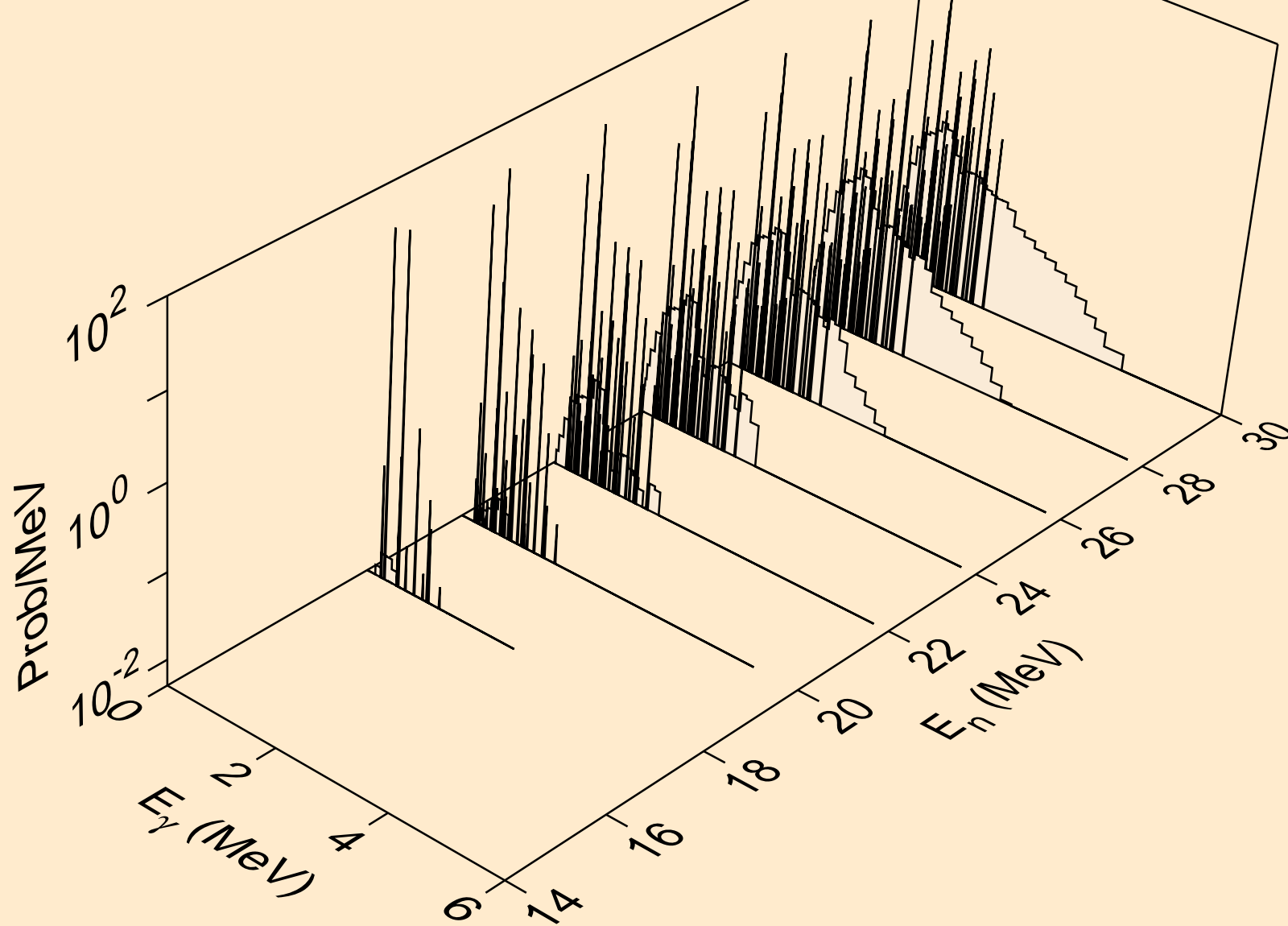
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Photon emission for (n,n\*)d



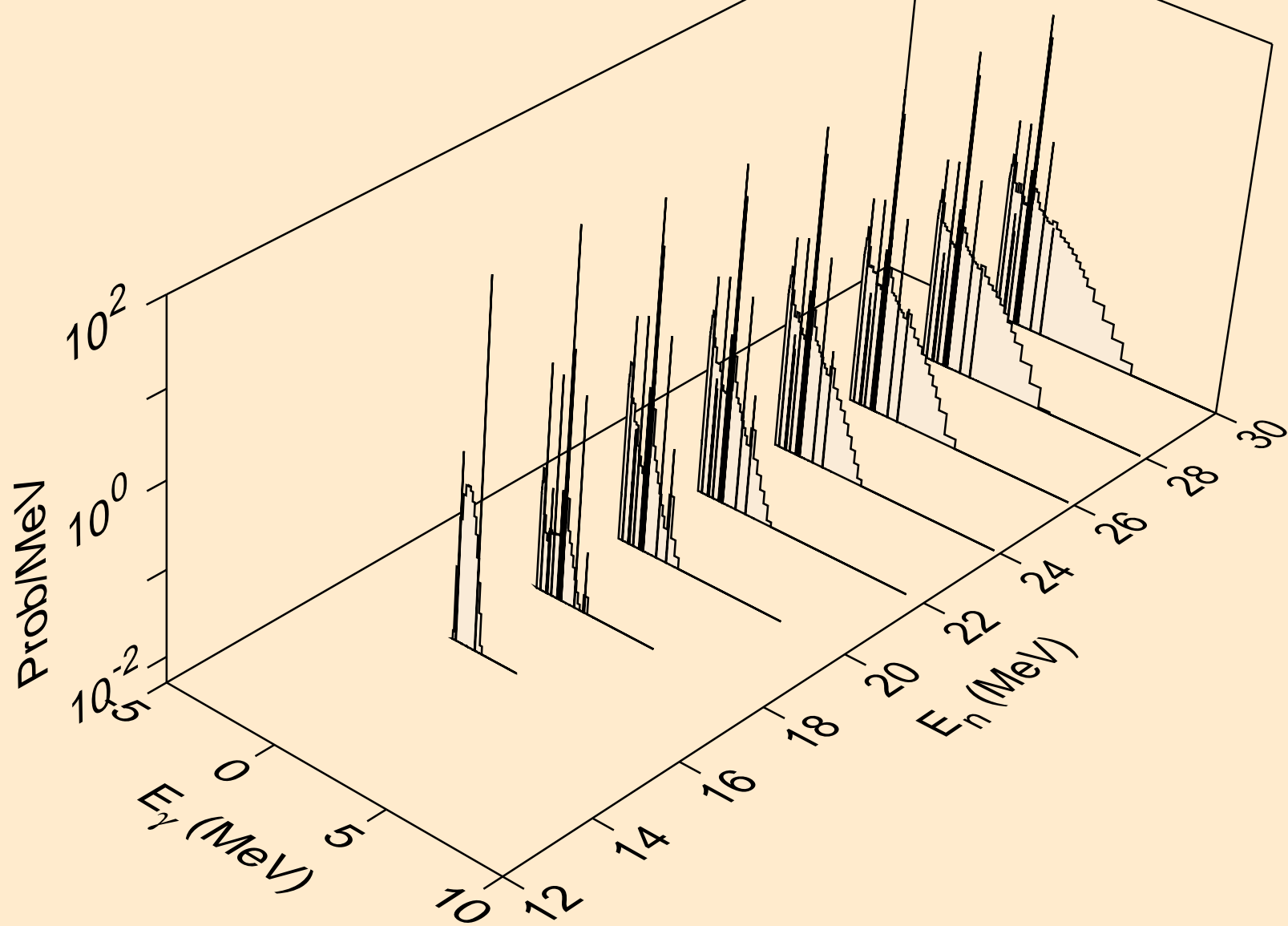
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Photon emission for (n,n\*)t



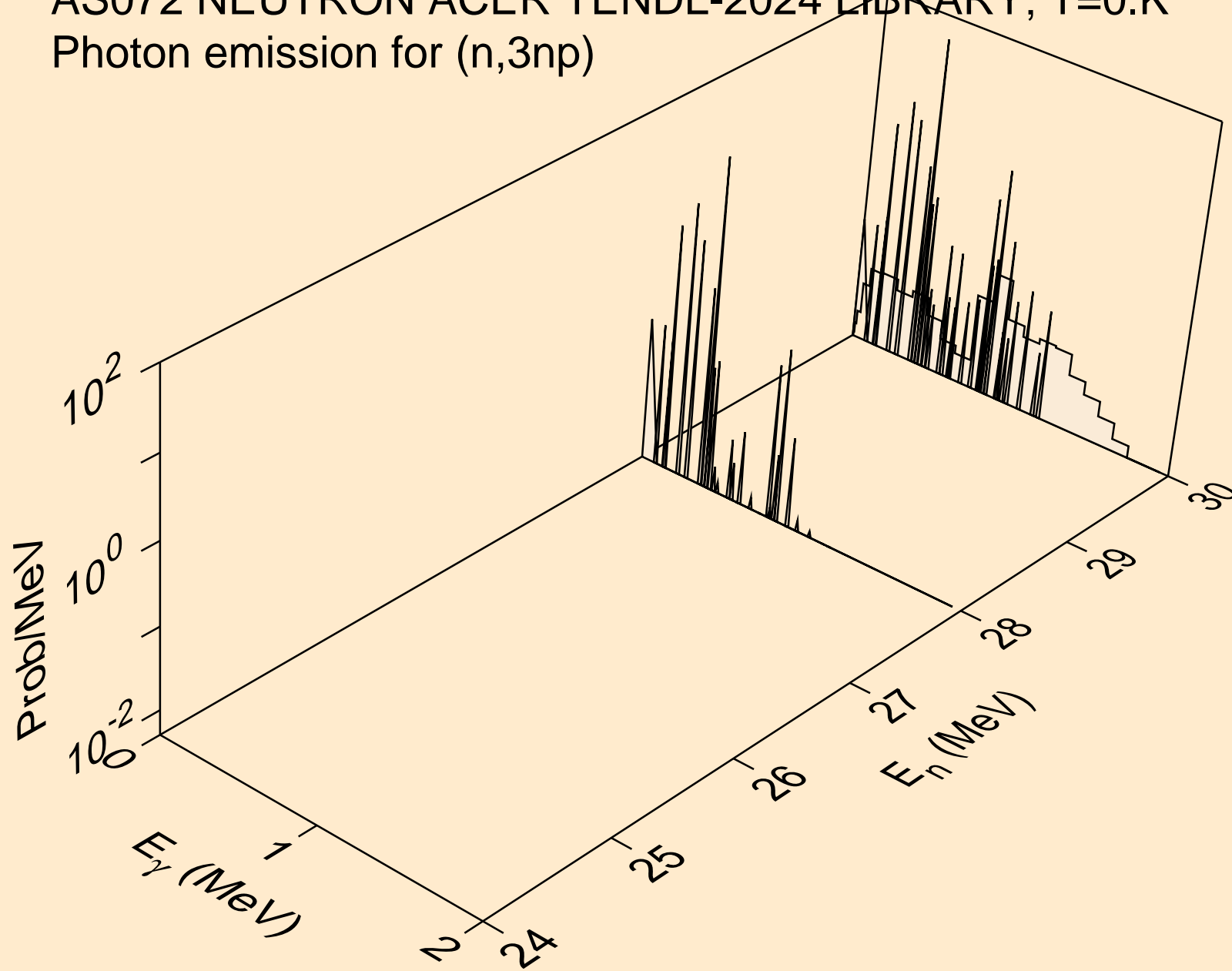
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)

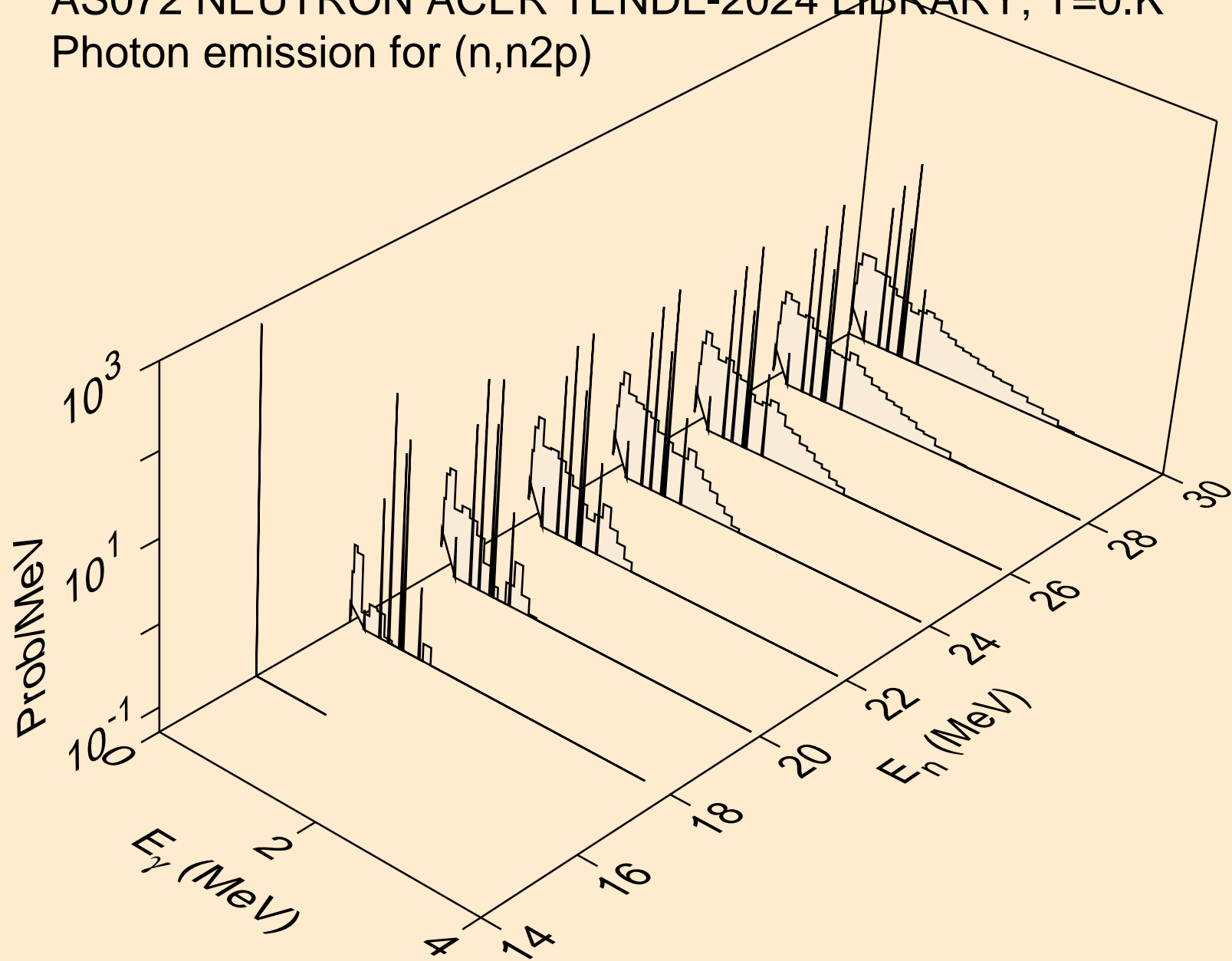


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Photon emission for (n,3np)

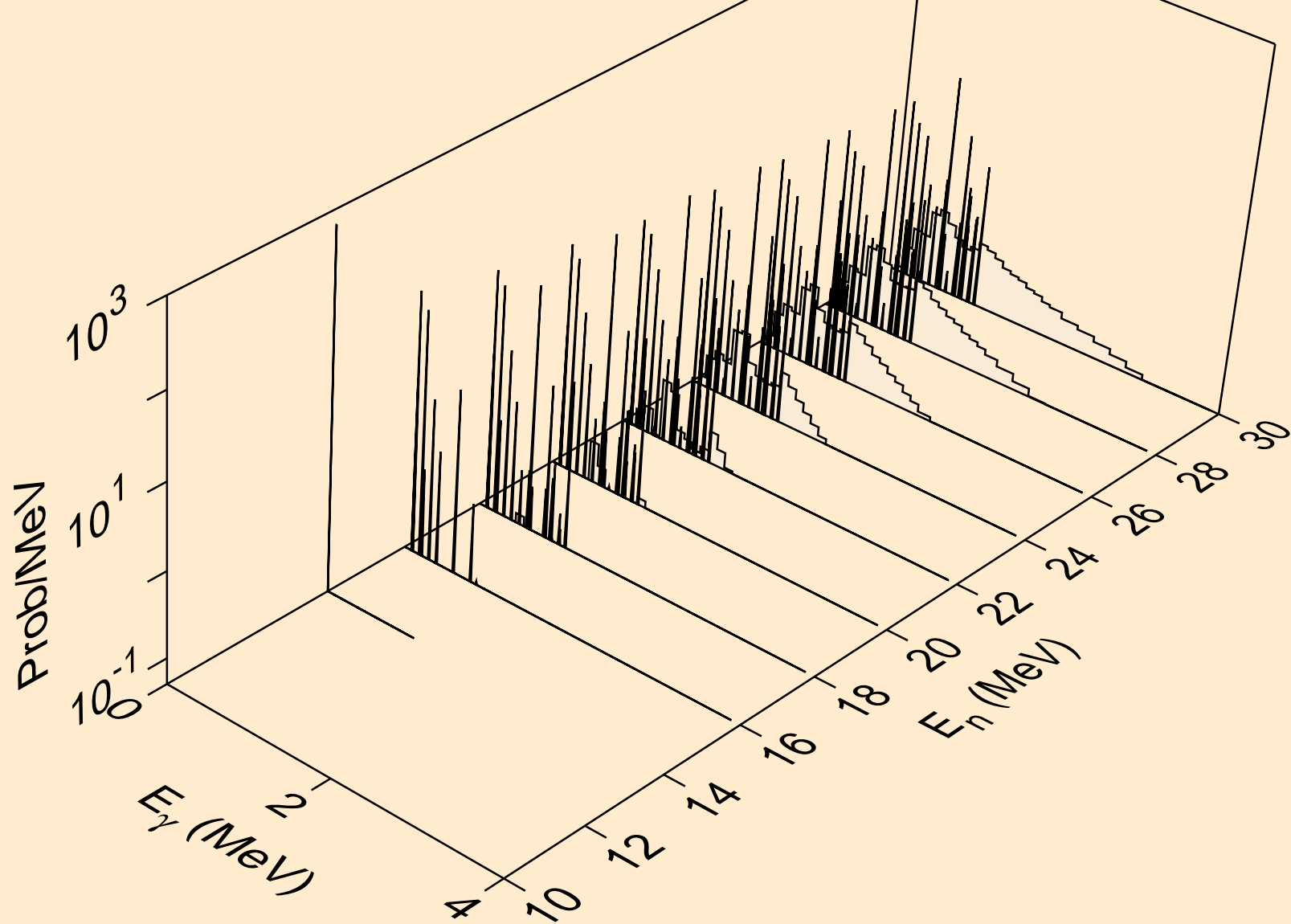




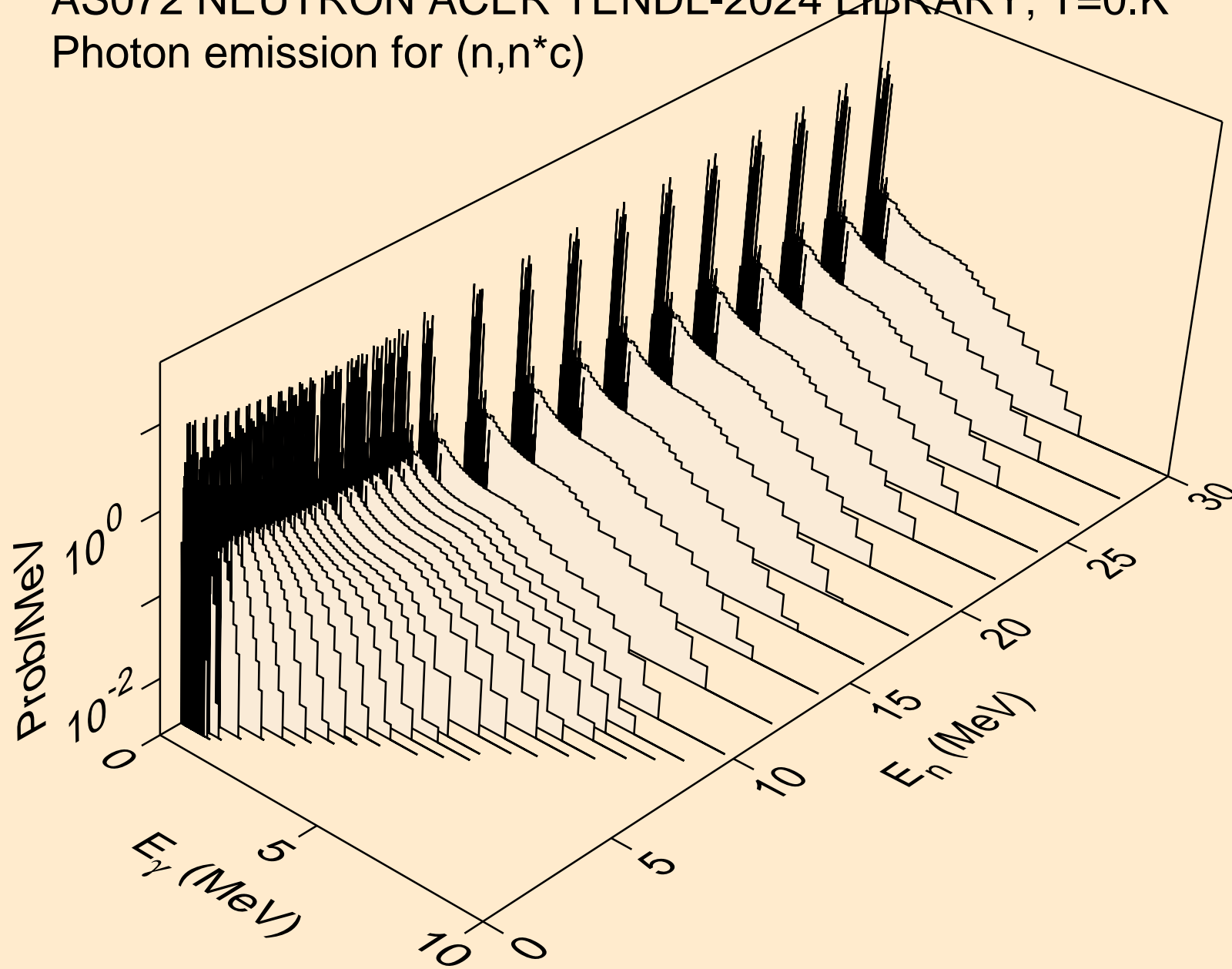
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Photon emission for (n,n2p)



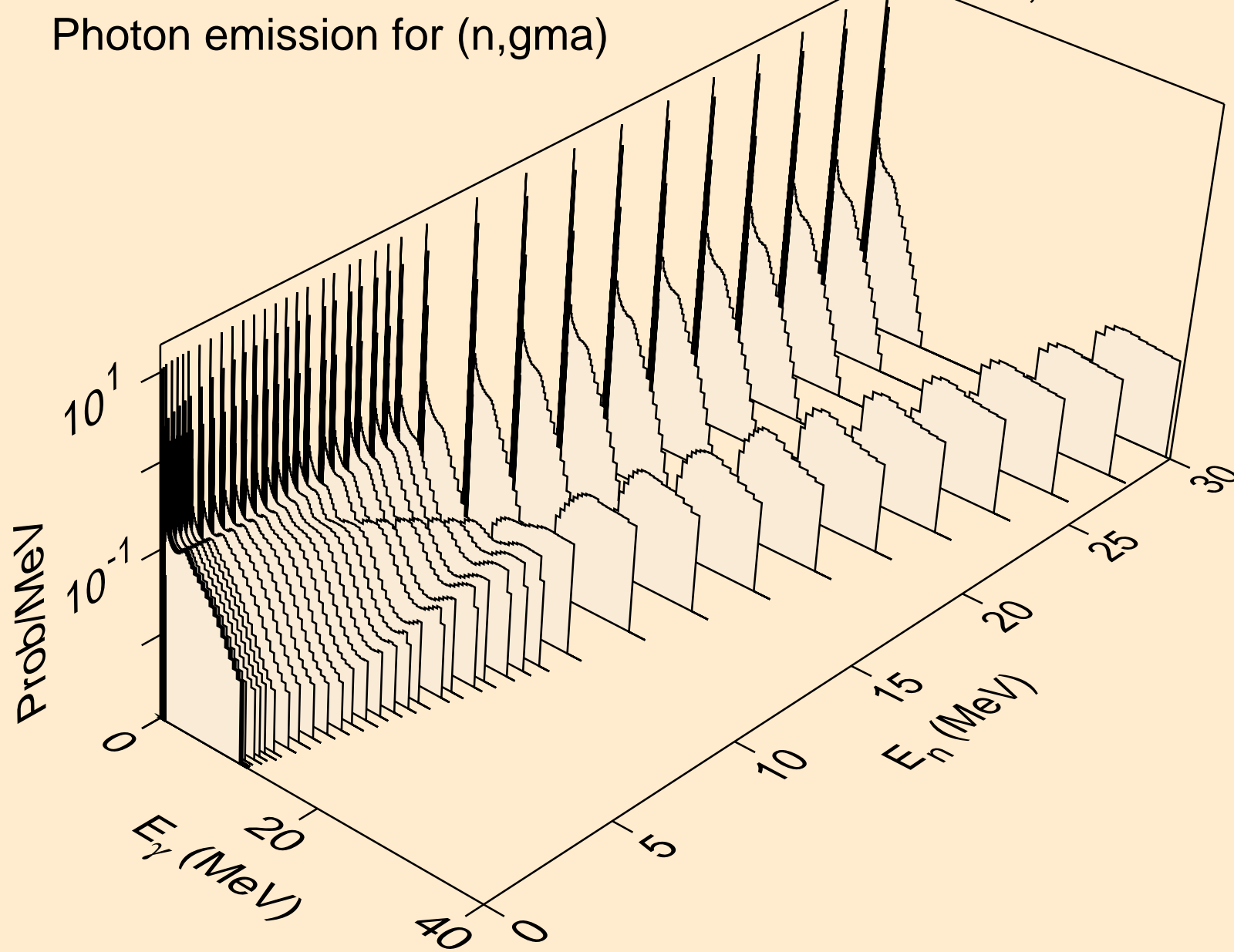
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Photon emission for (n,npa)



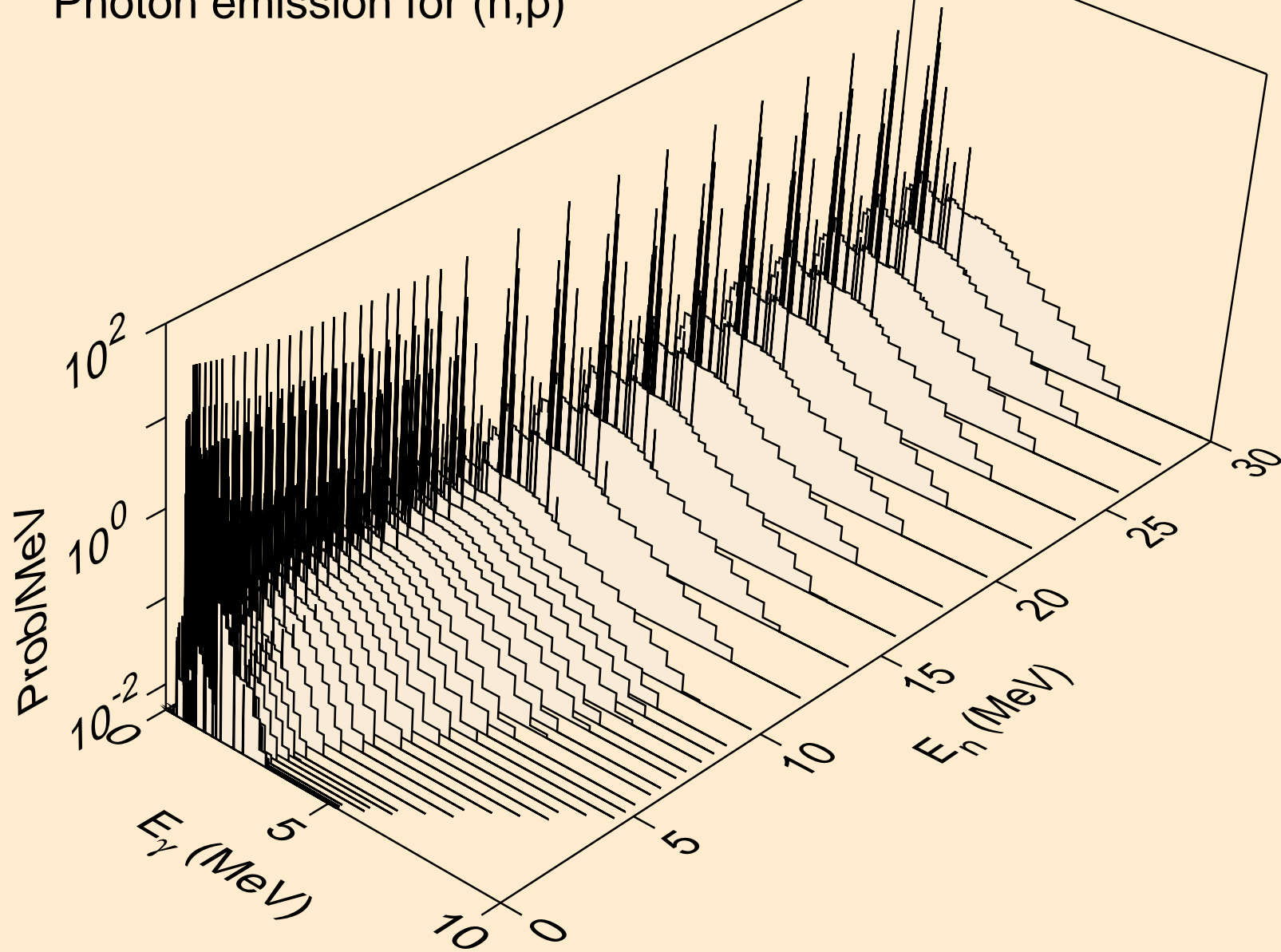
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Photon emission for (n,n\*c)



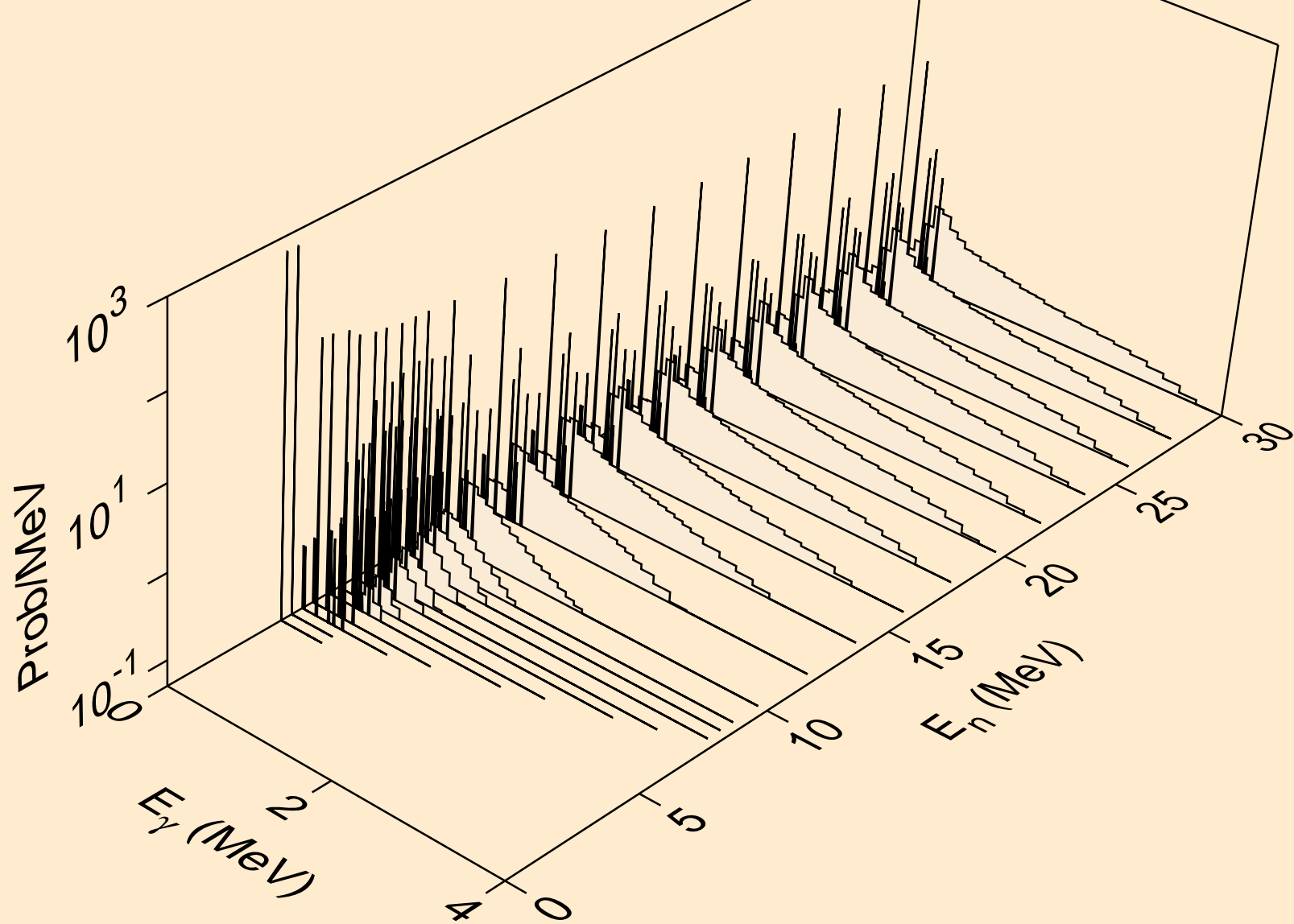
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Photon emission for (n,gma)



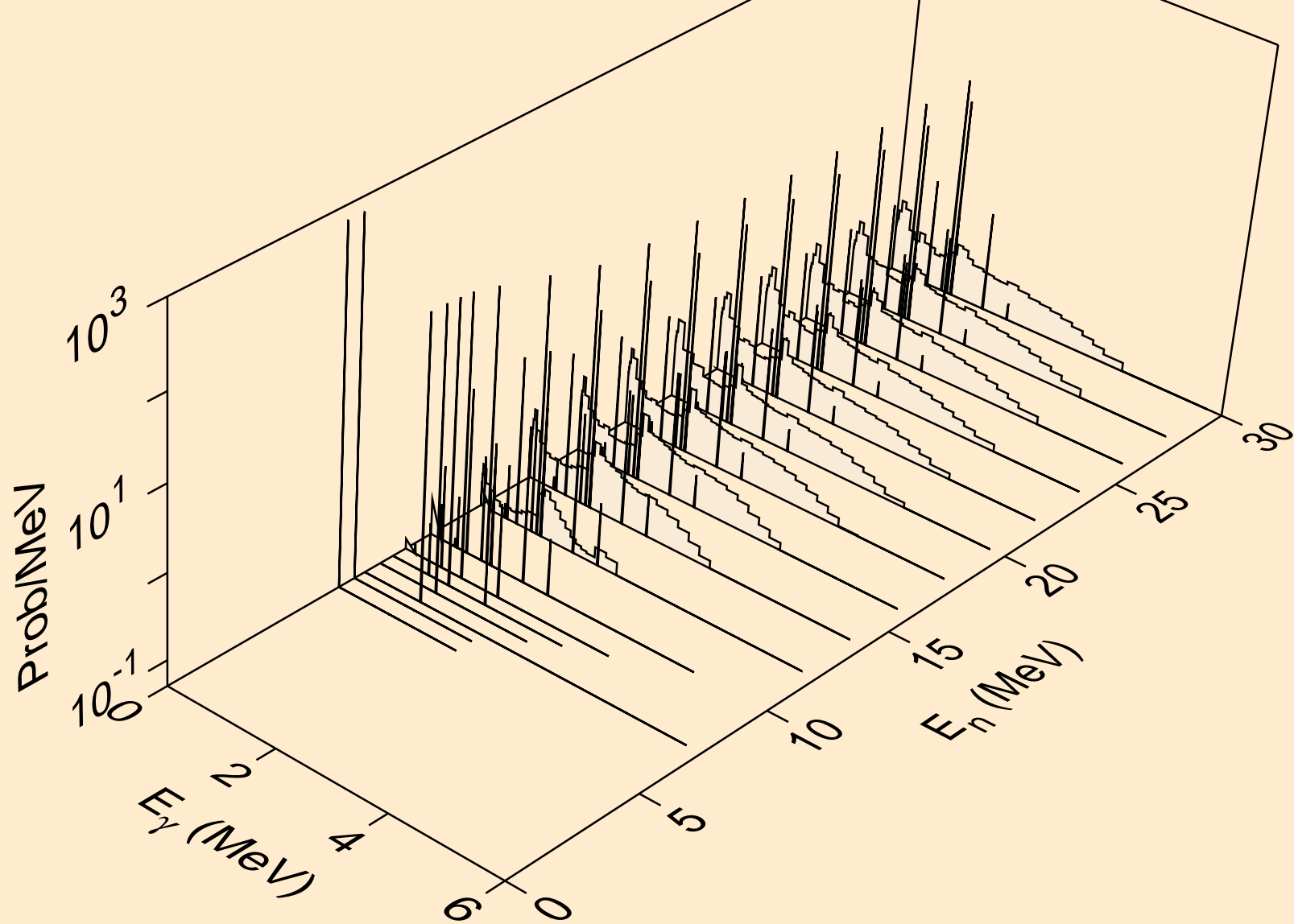
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Photon emission for (n,p)



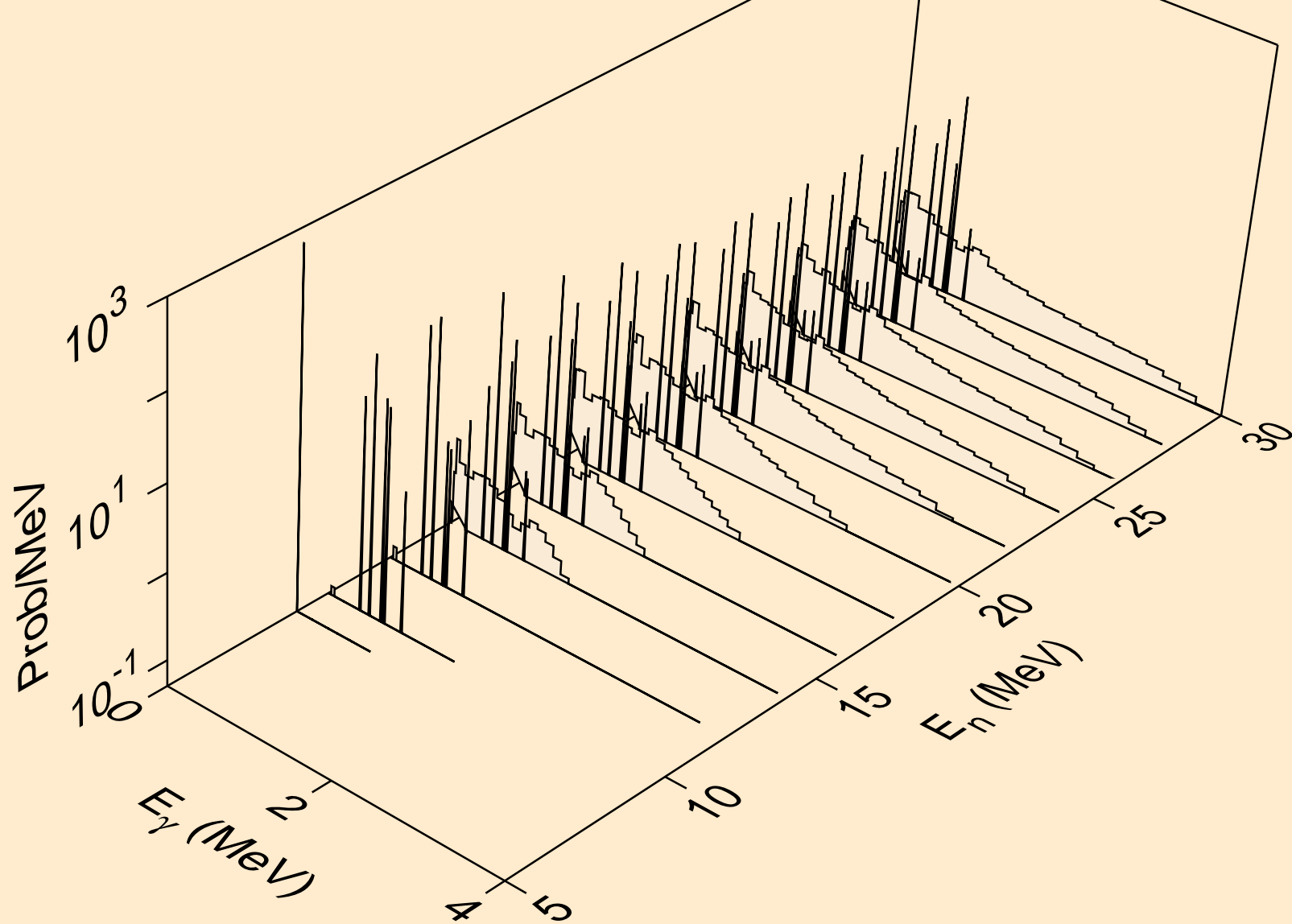
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t)

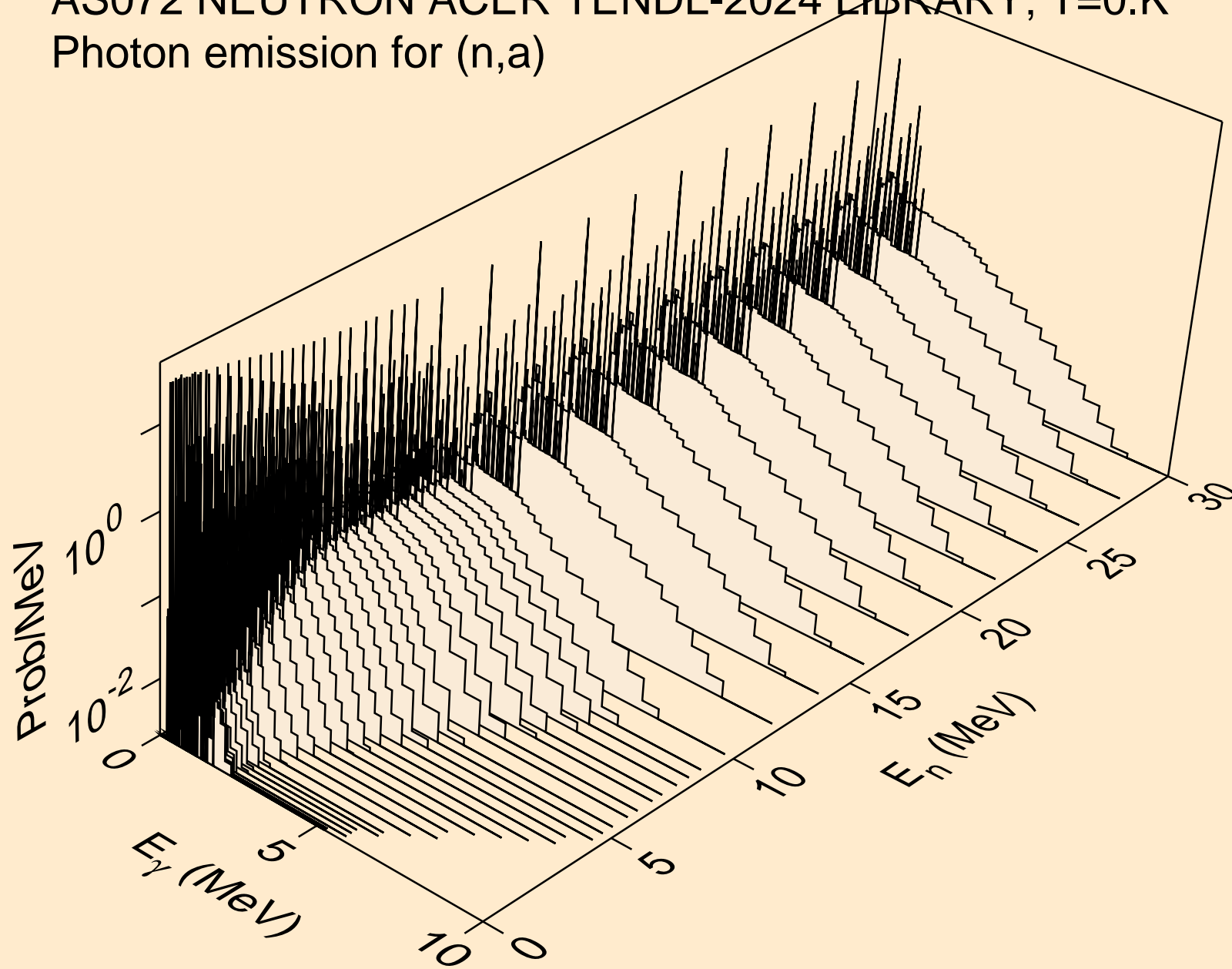


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Photon emission for (n,he3)

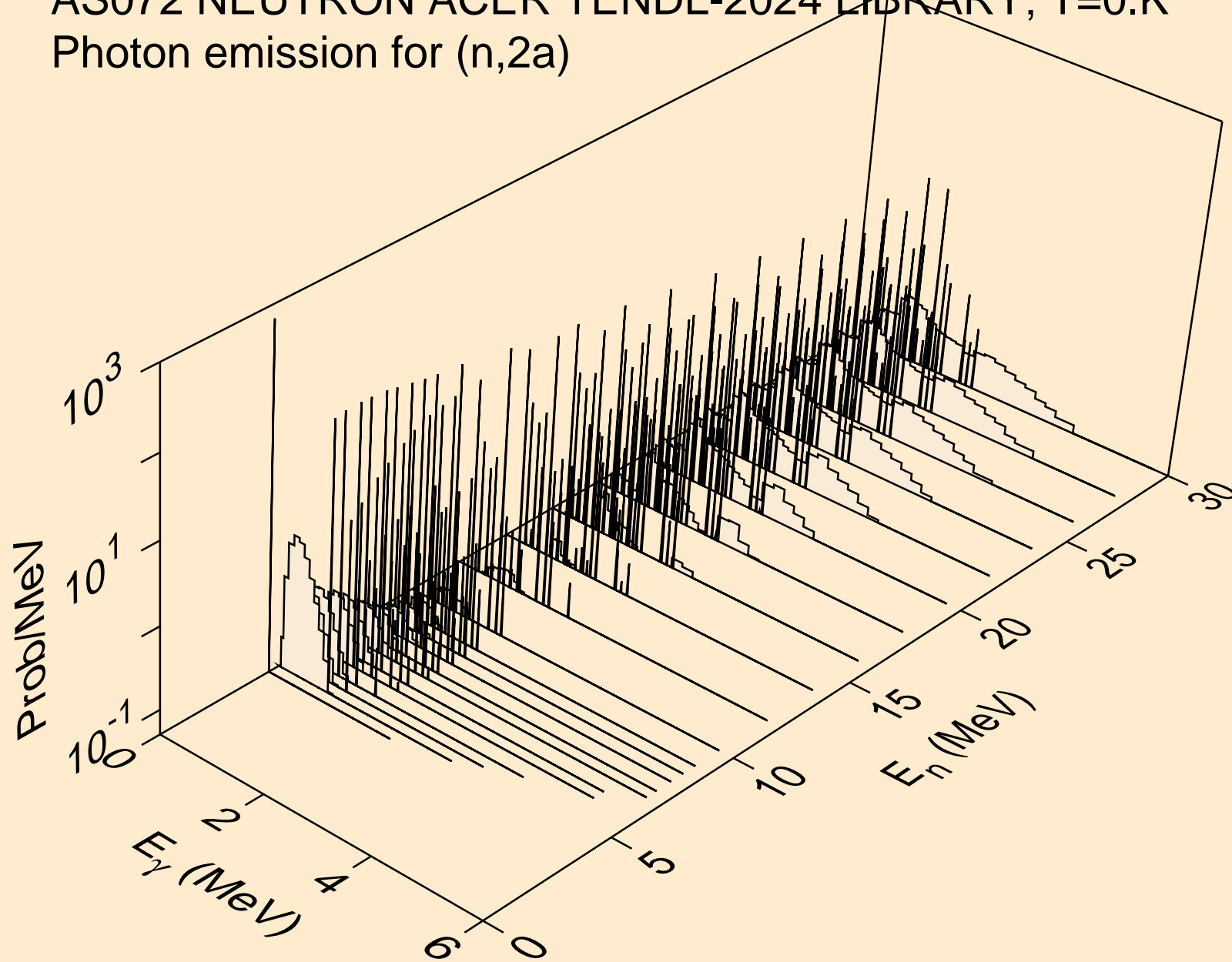




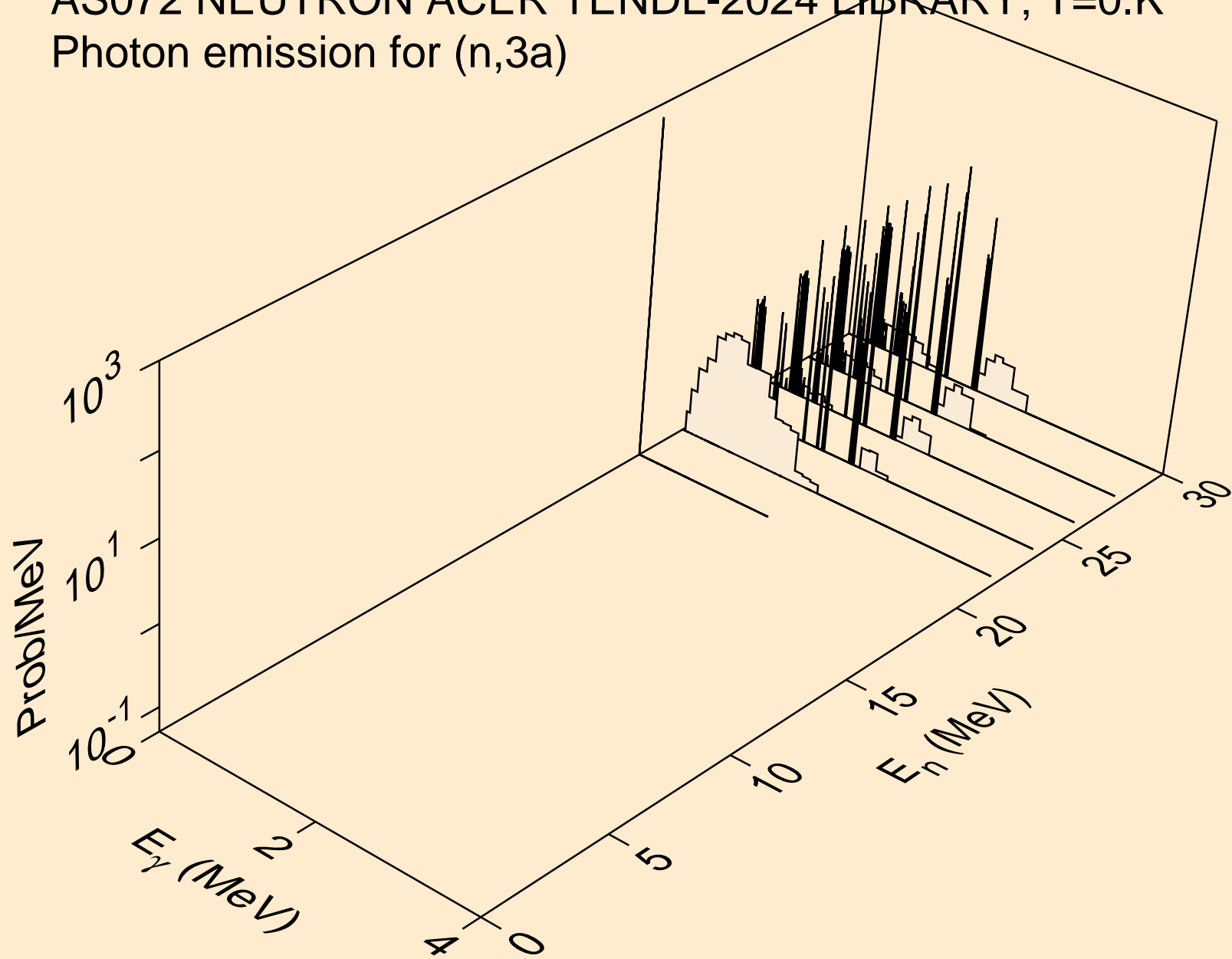
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Photon emission for (n,a)



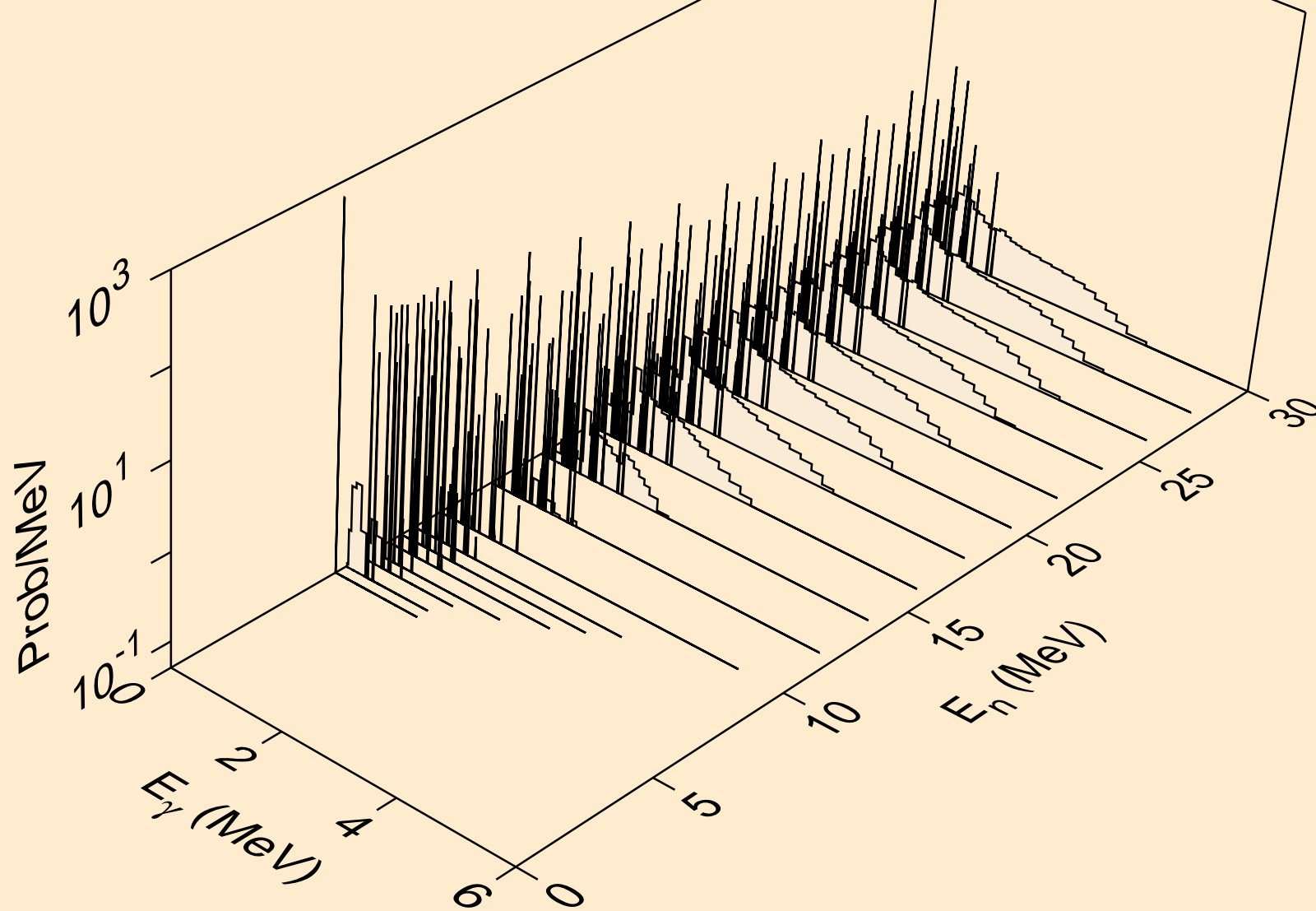
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Photon emission for (n,2a)



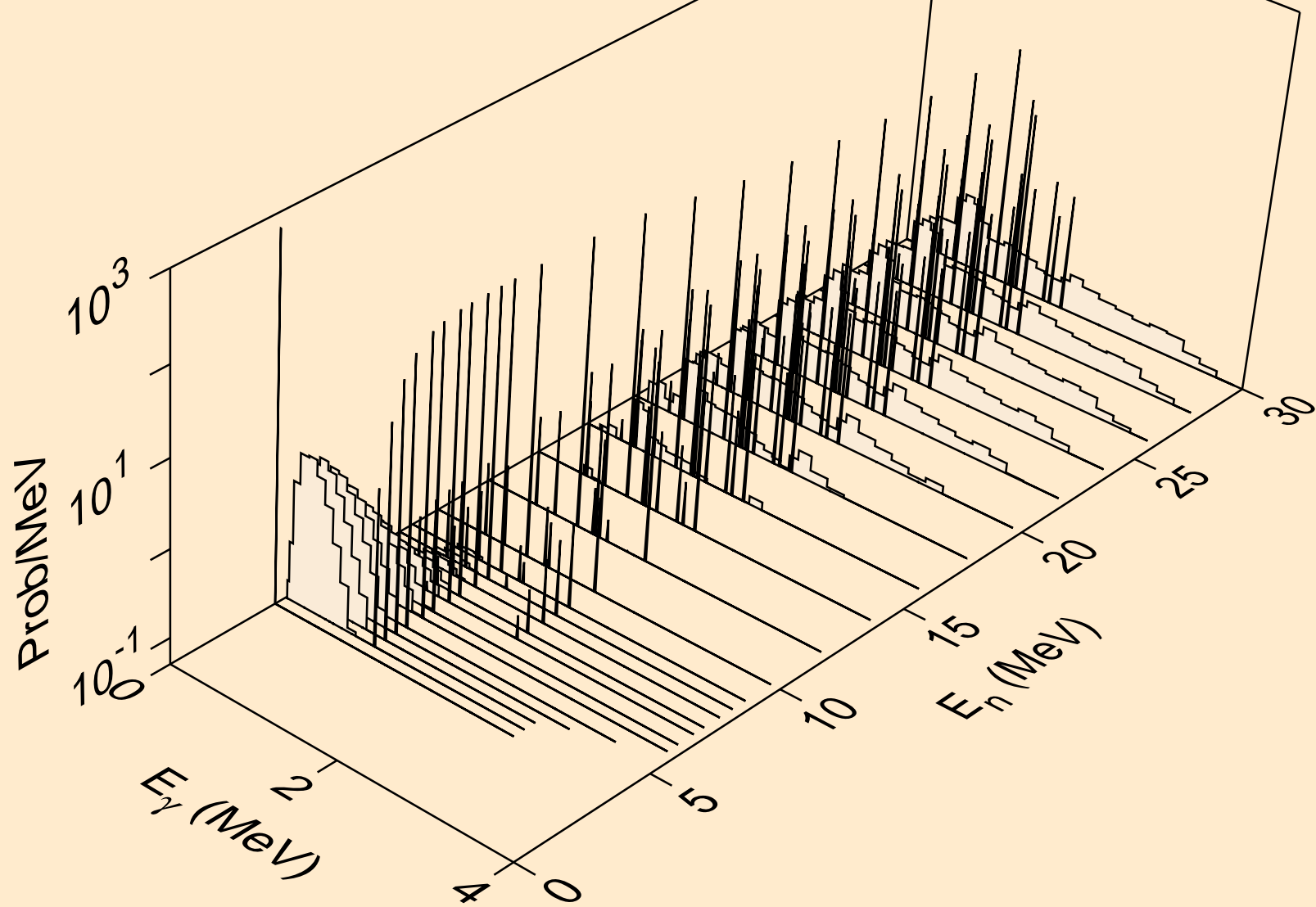
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Photon emission for (n,3a)



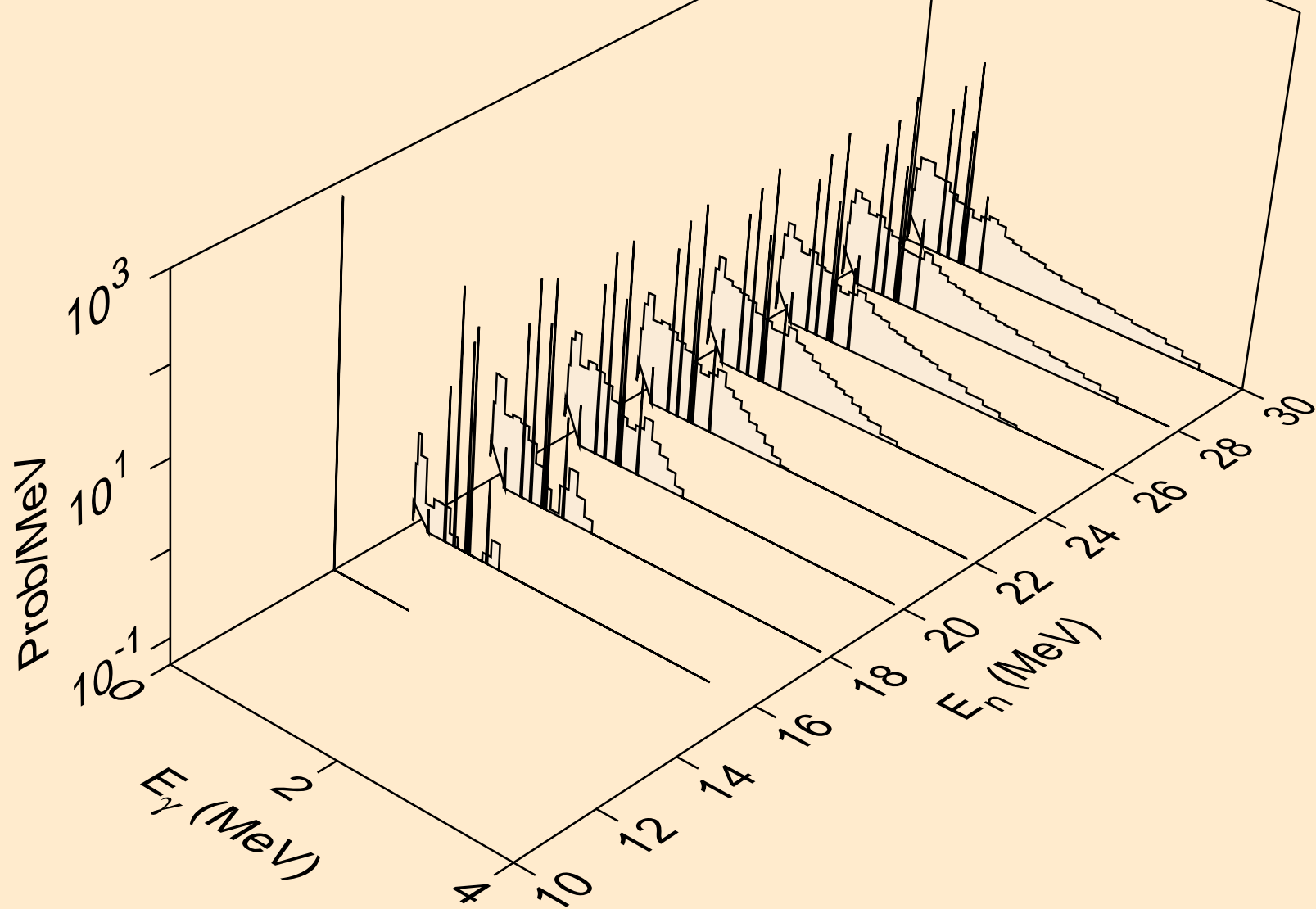
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Photon emission for (n,2p)



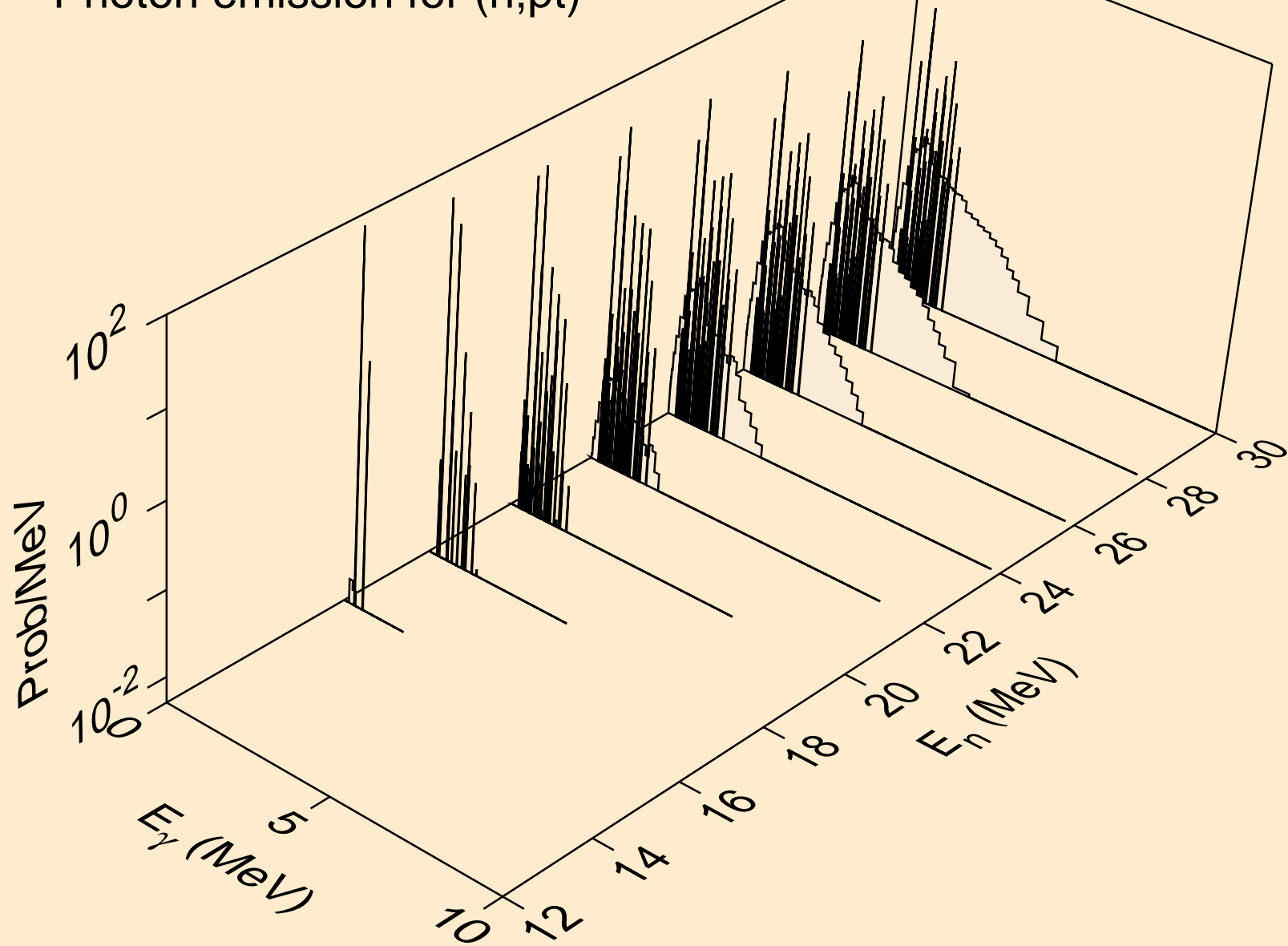
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Photon emission for (n,p $\alpha$ )



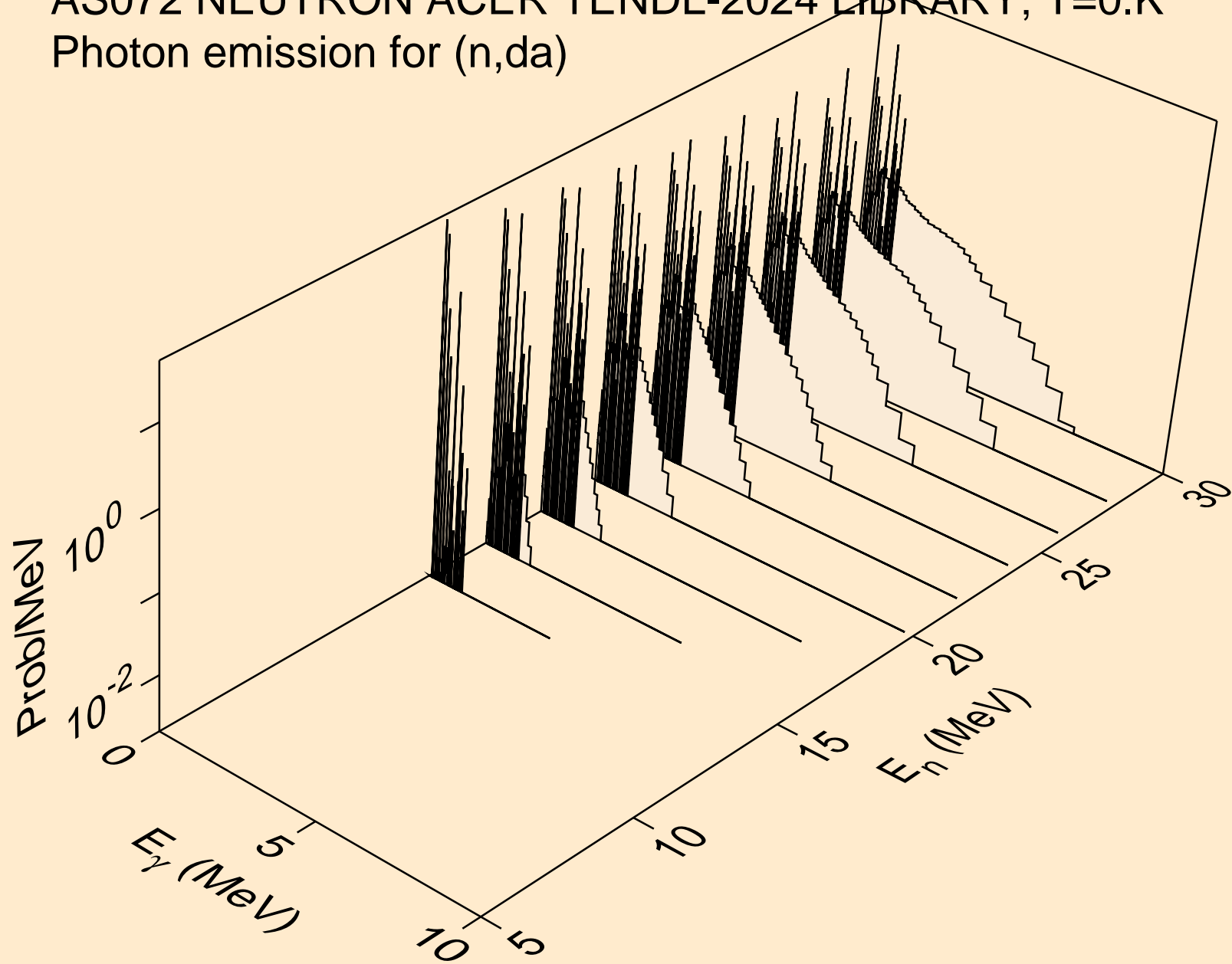
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)

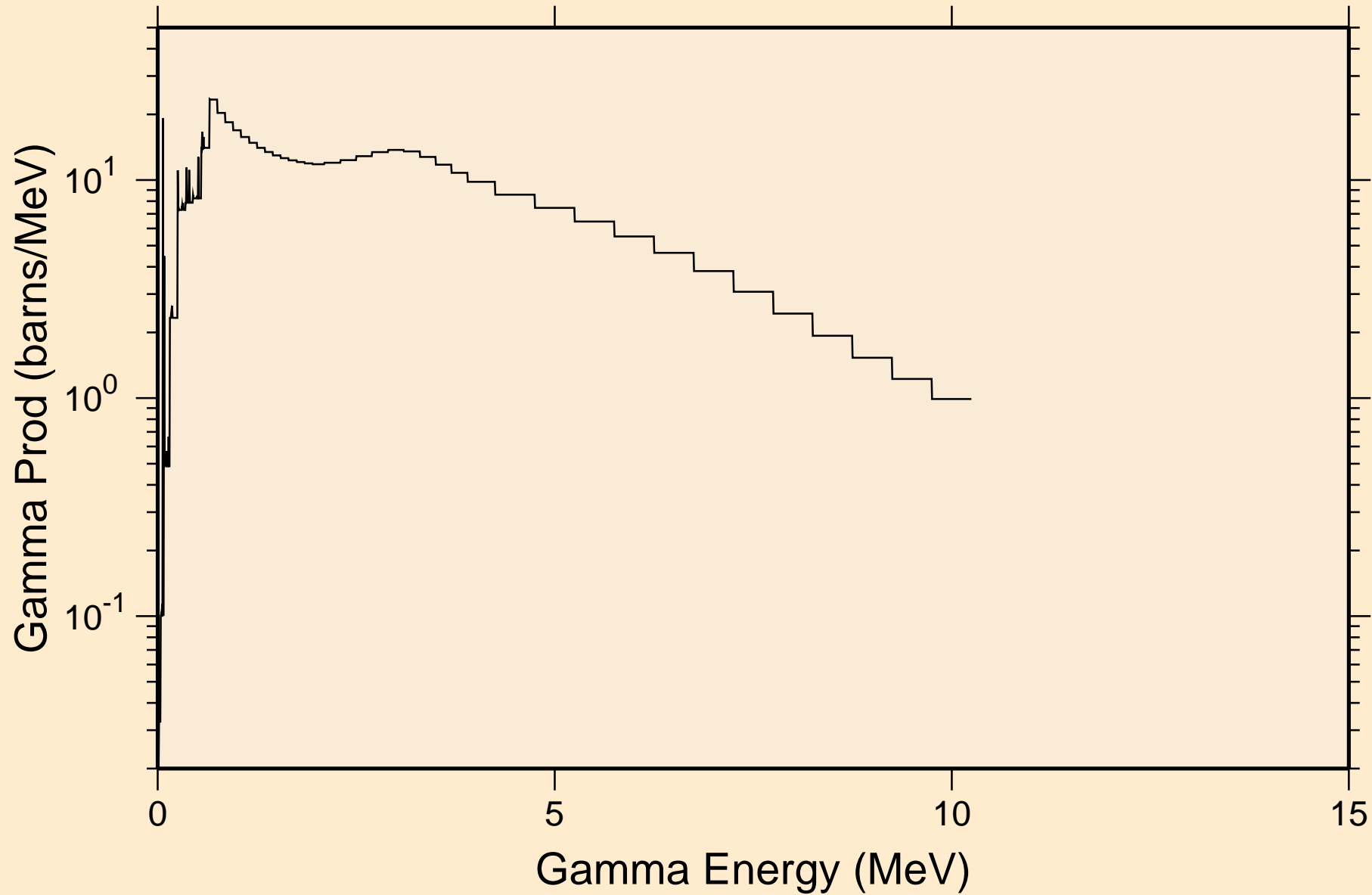


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Photon emission for (n,da)

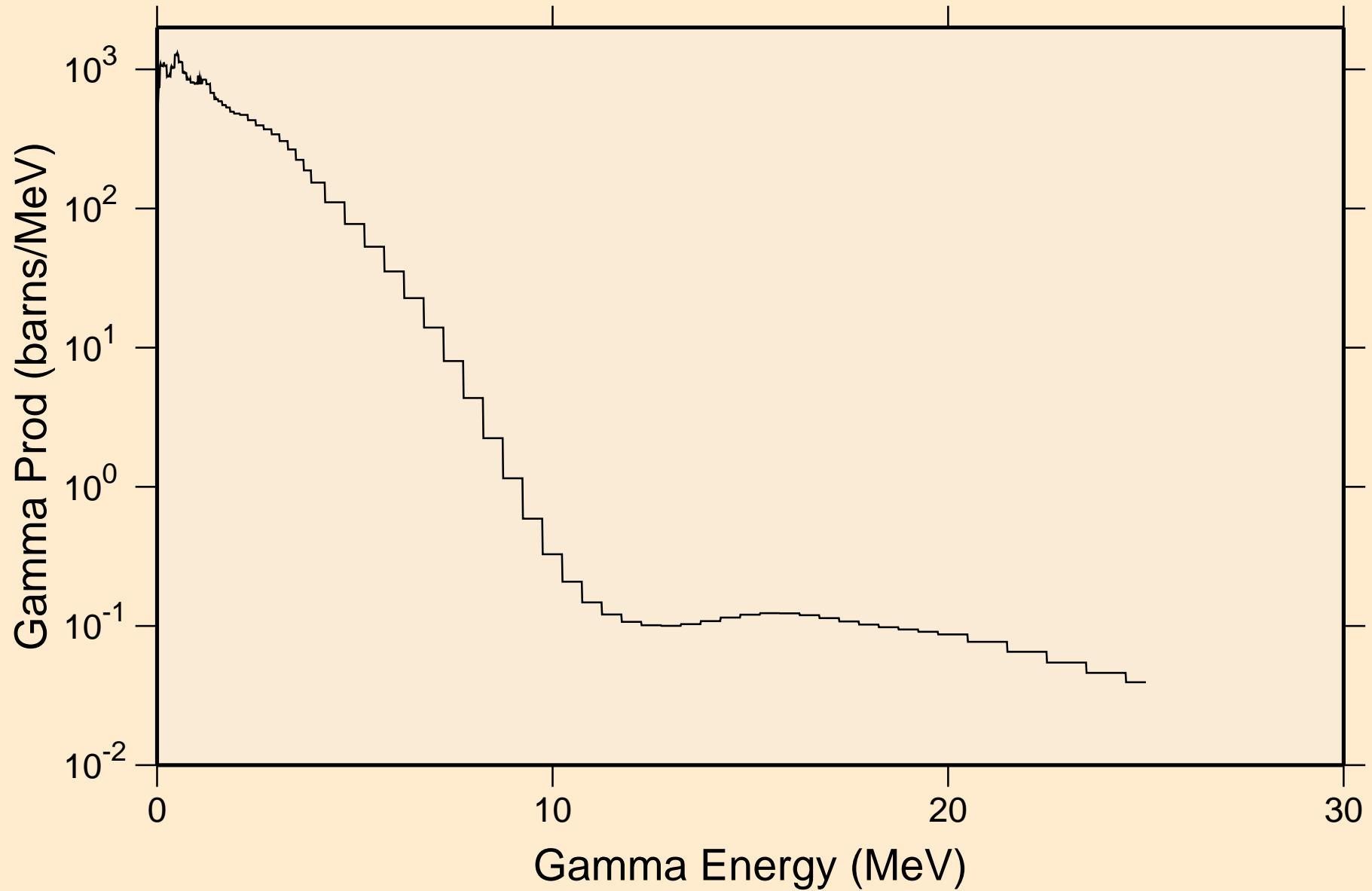




AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

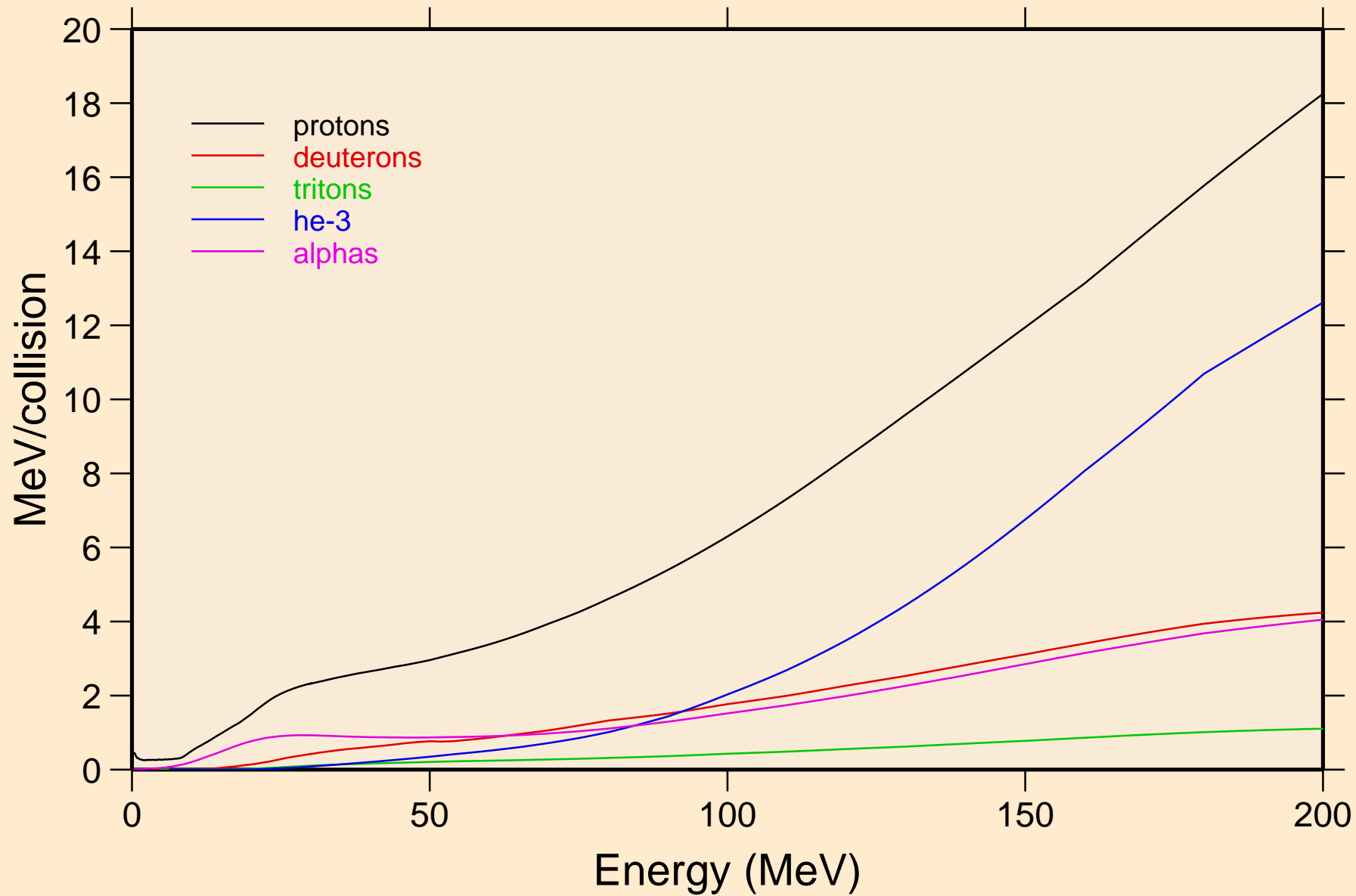


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

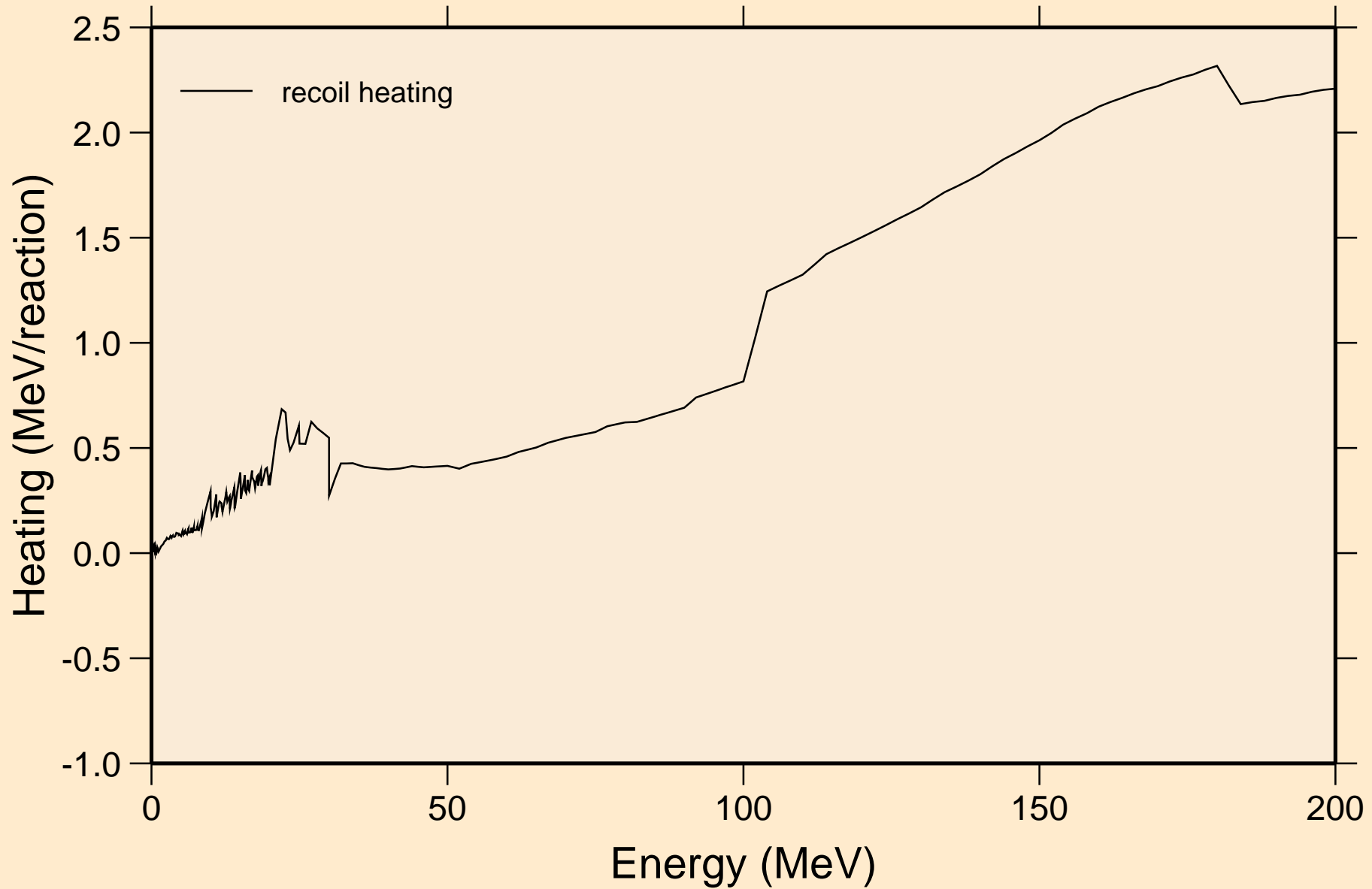


# AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

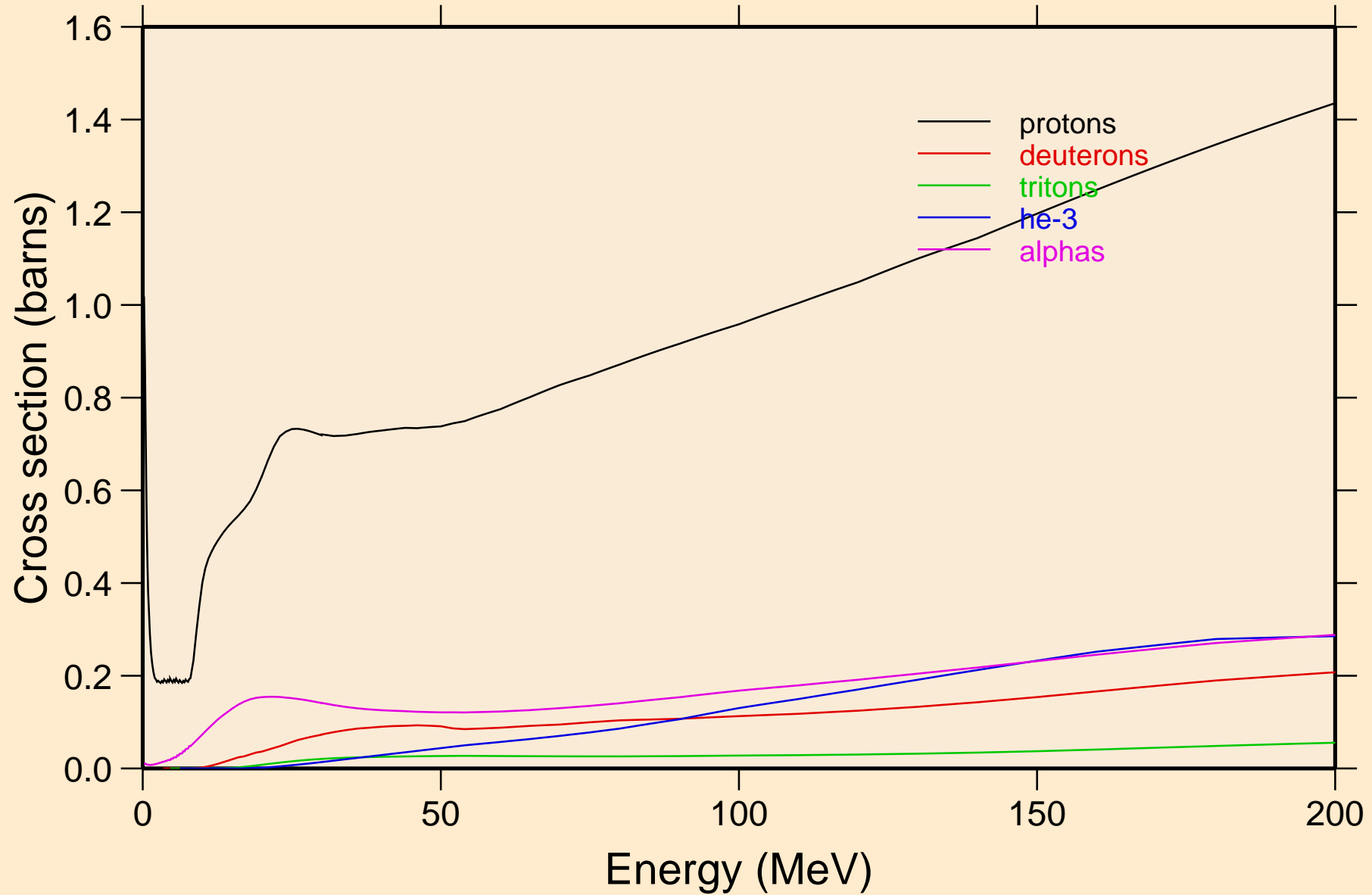
## Particle heating contributions



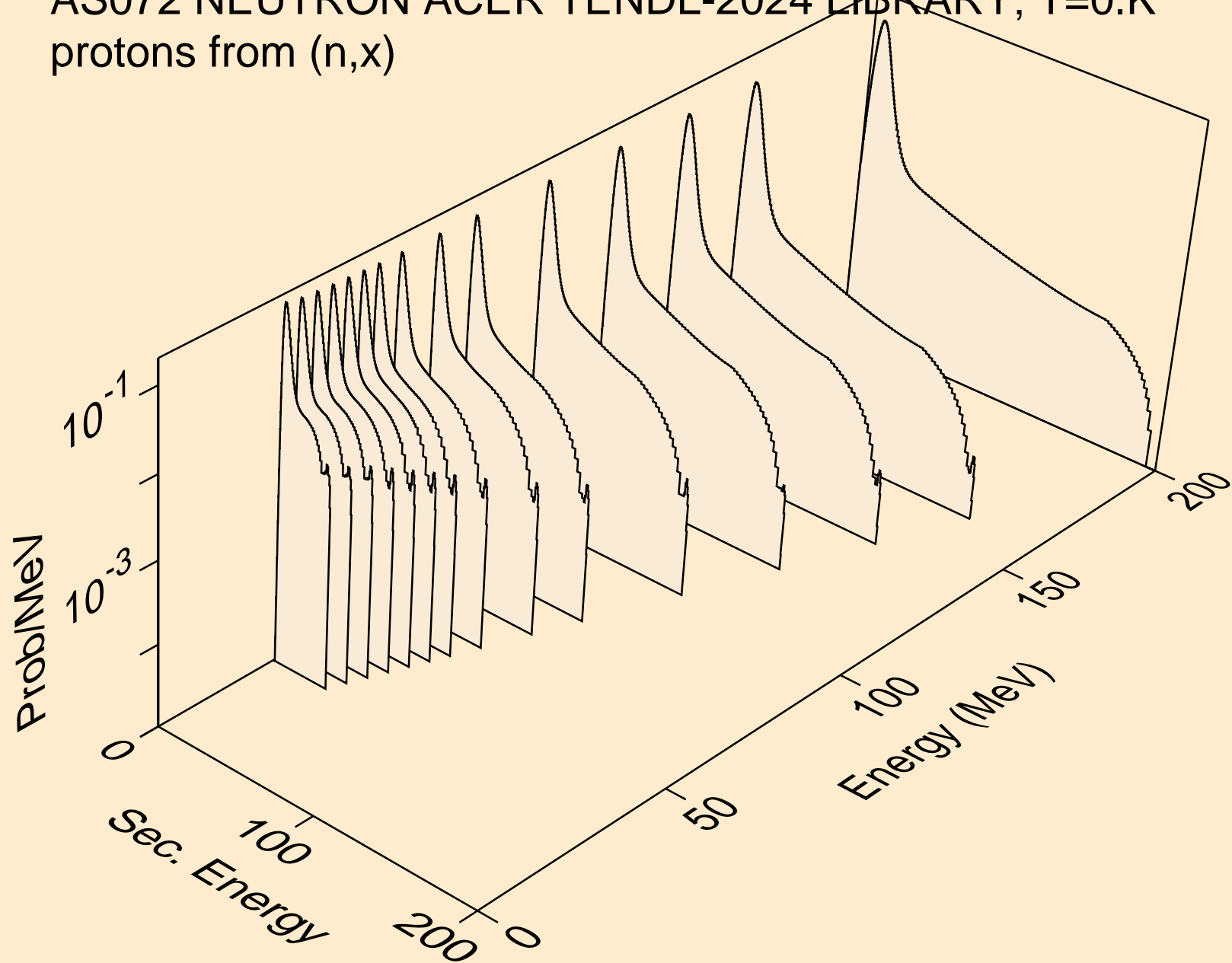
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Recoil Heating



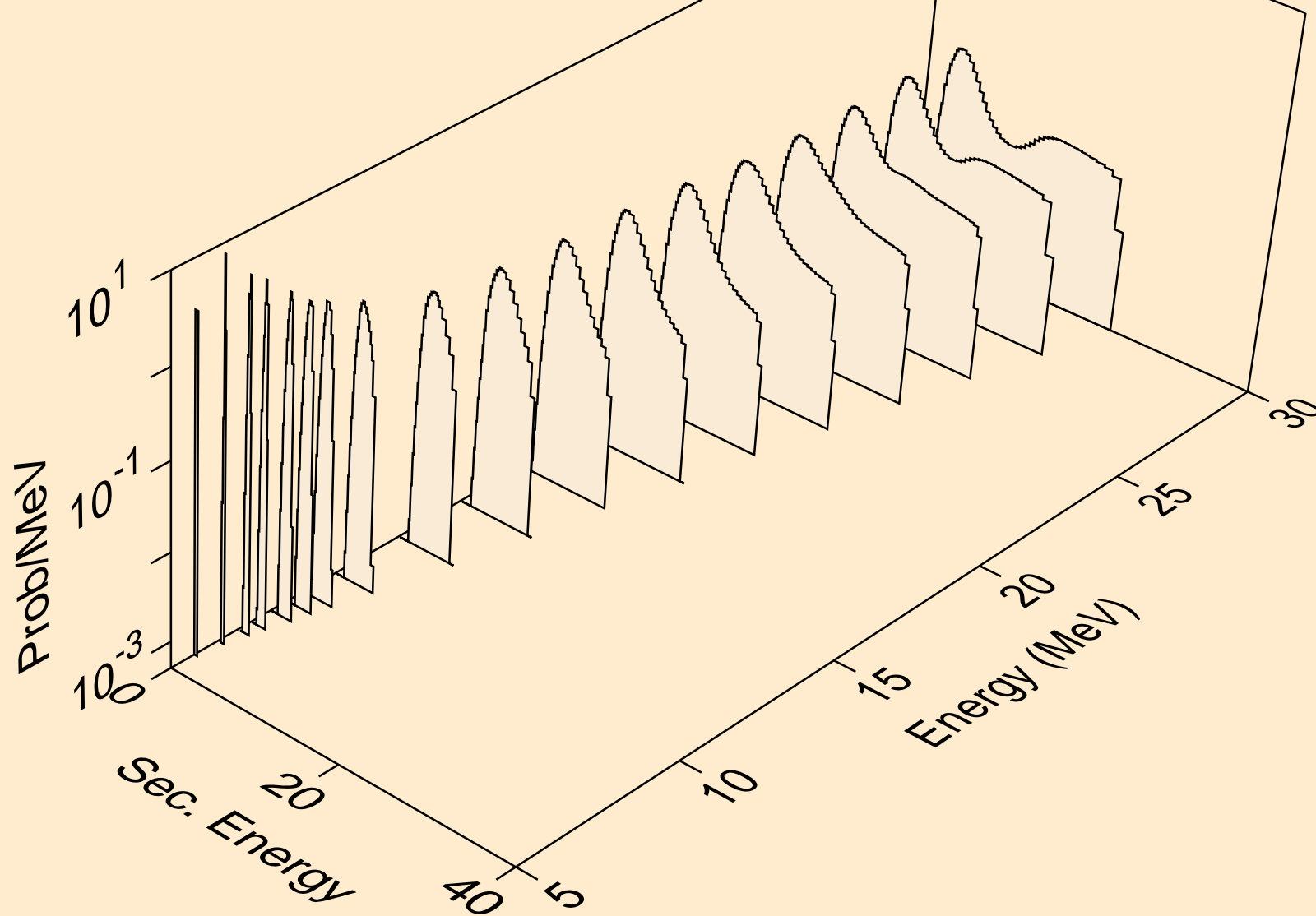
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Particle production cross sections



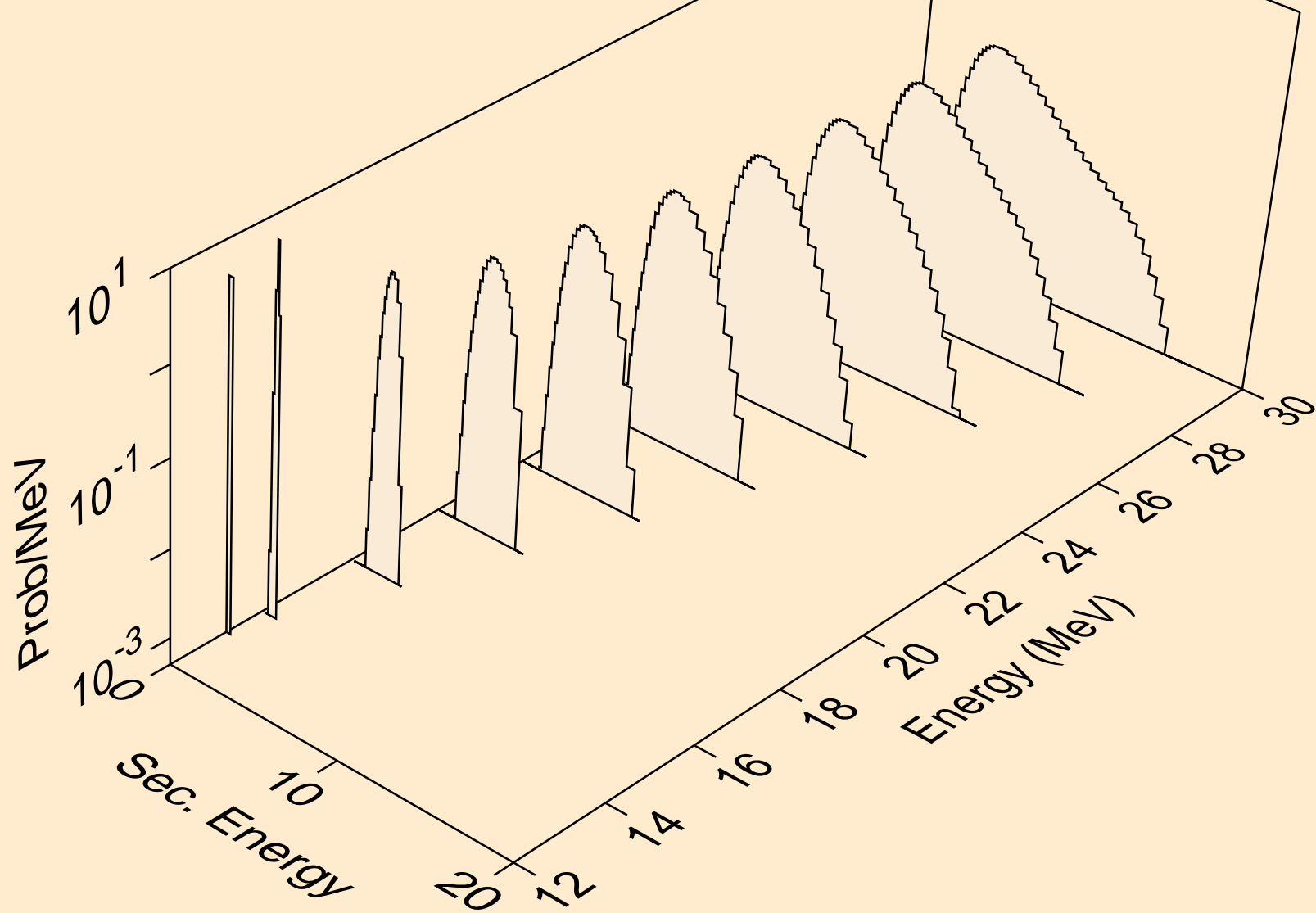
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n\*)p

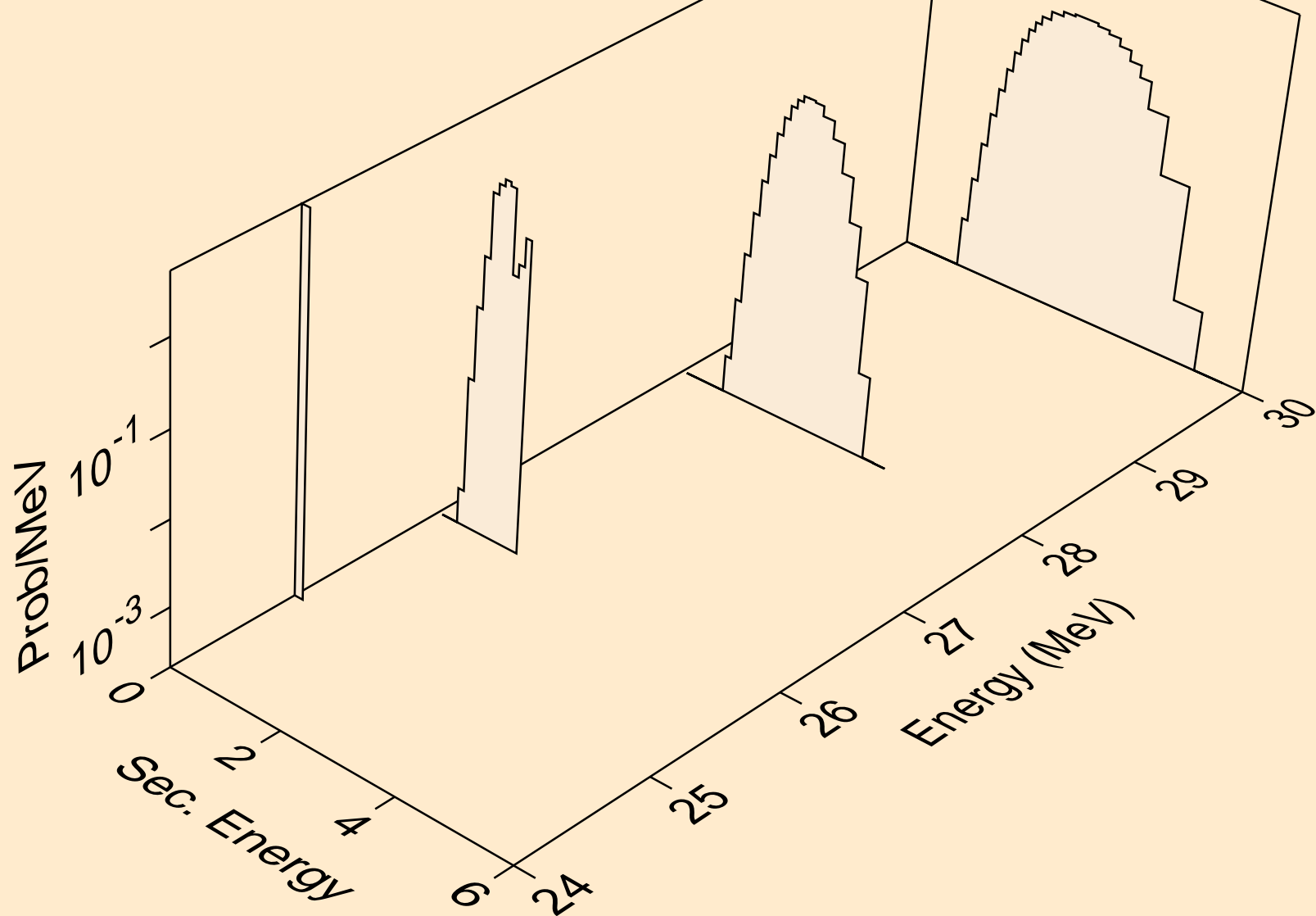


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protons from (n,2np)

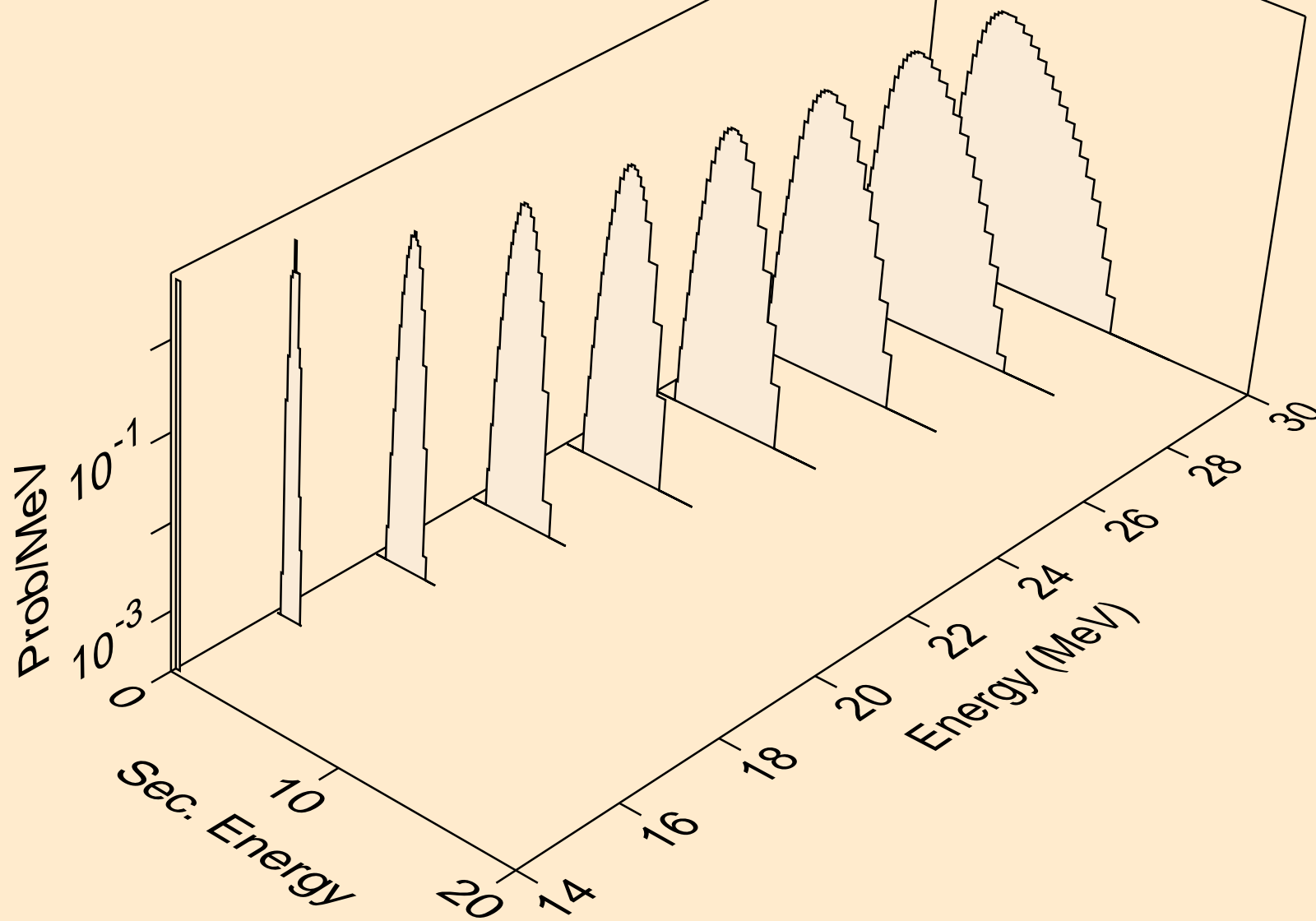




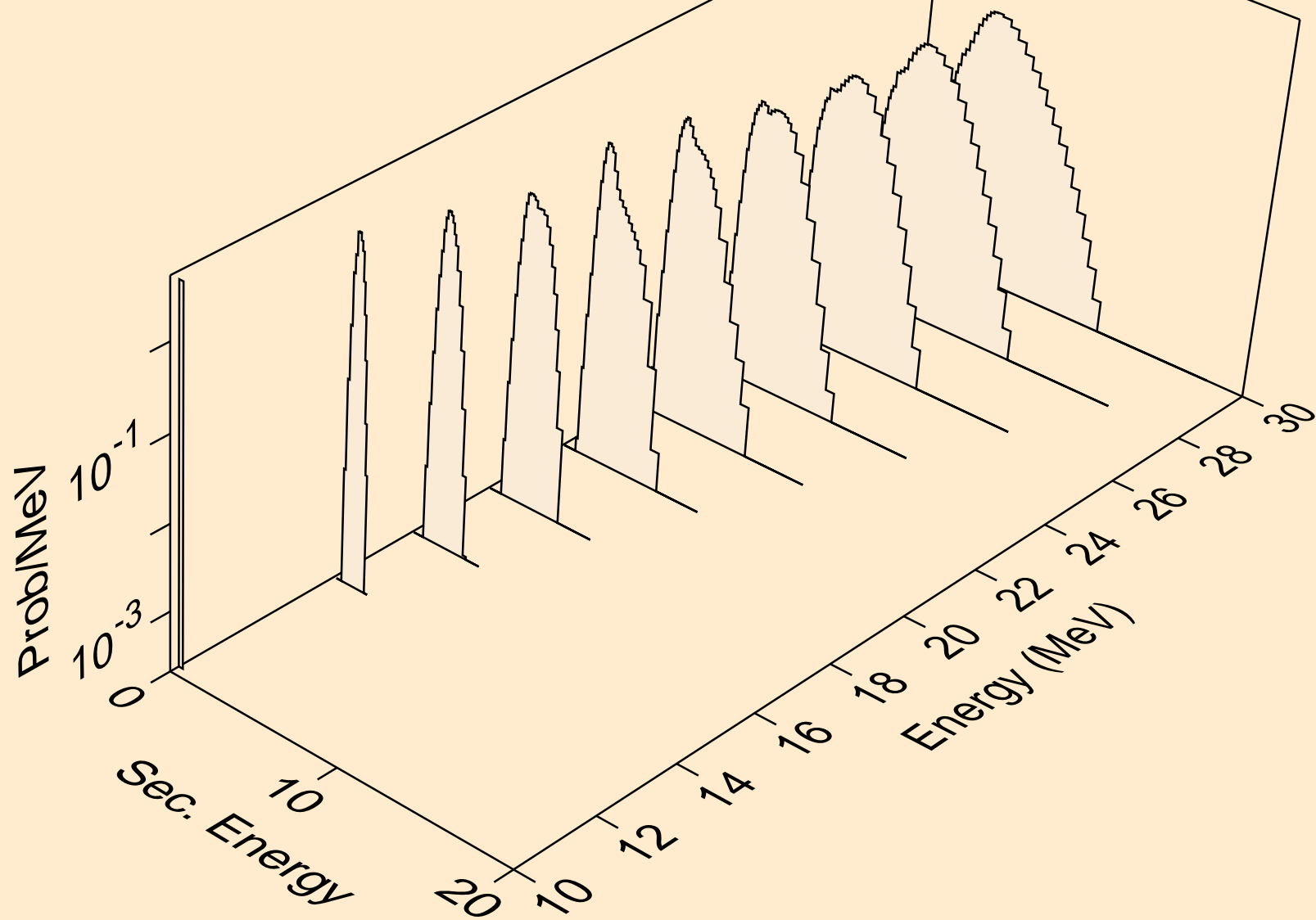
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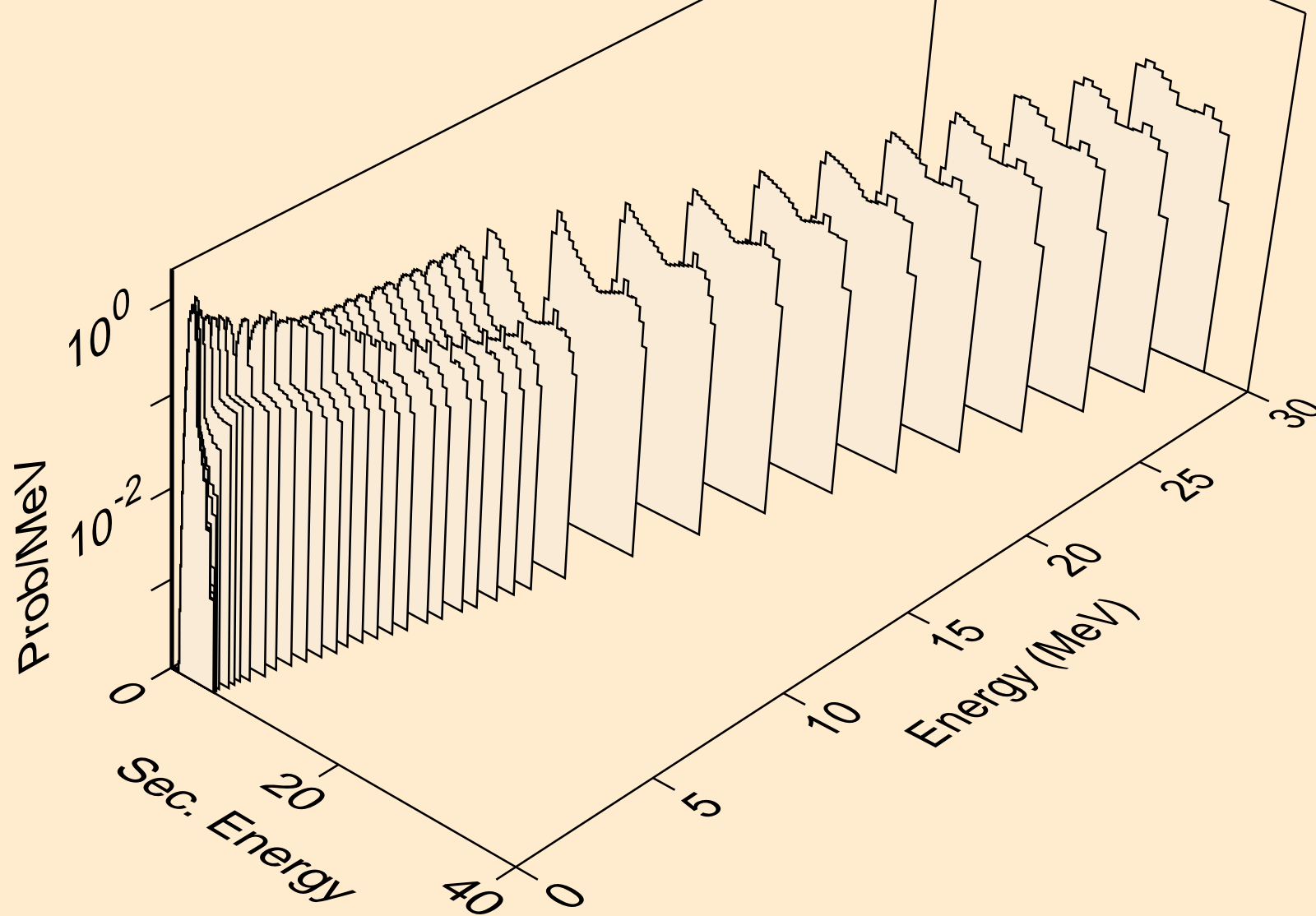
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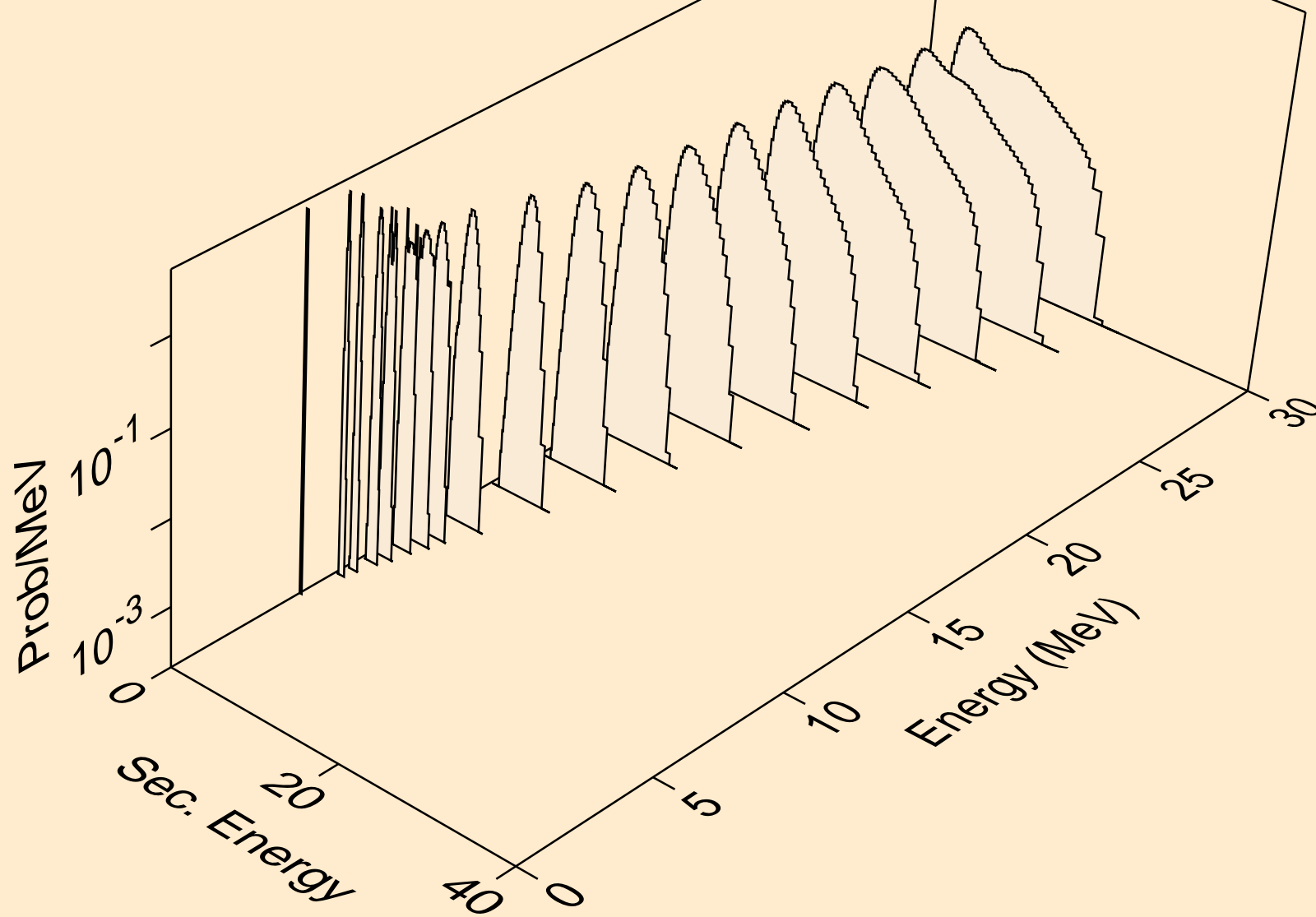
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protons from (n,npa)



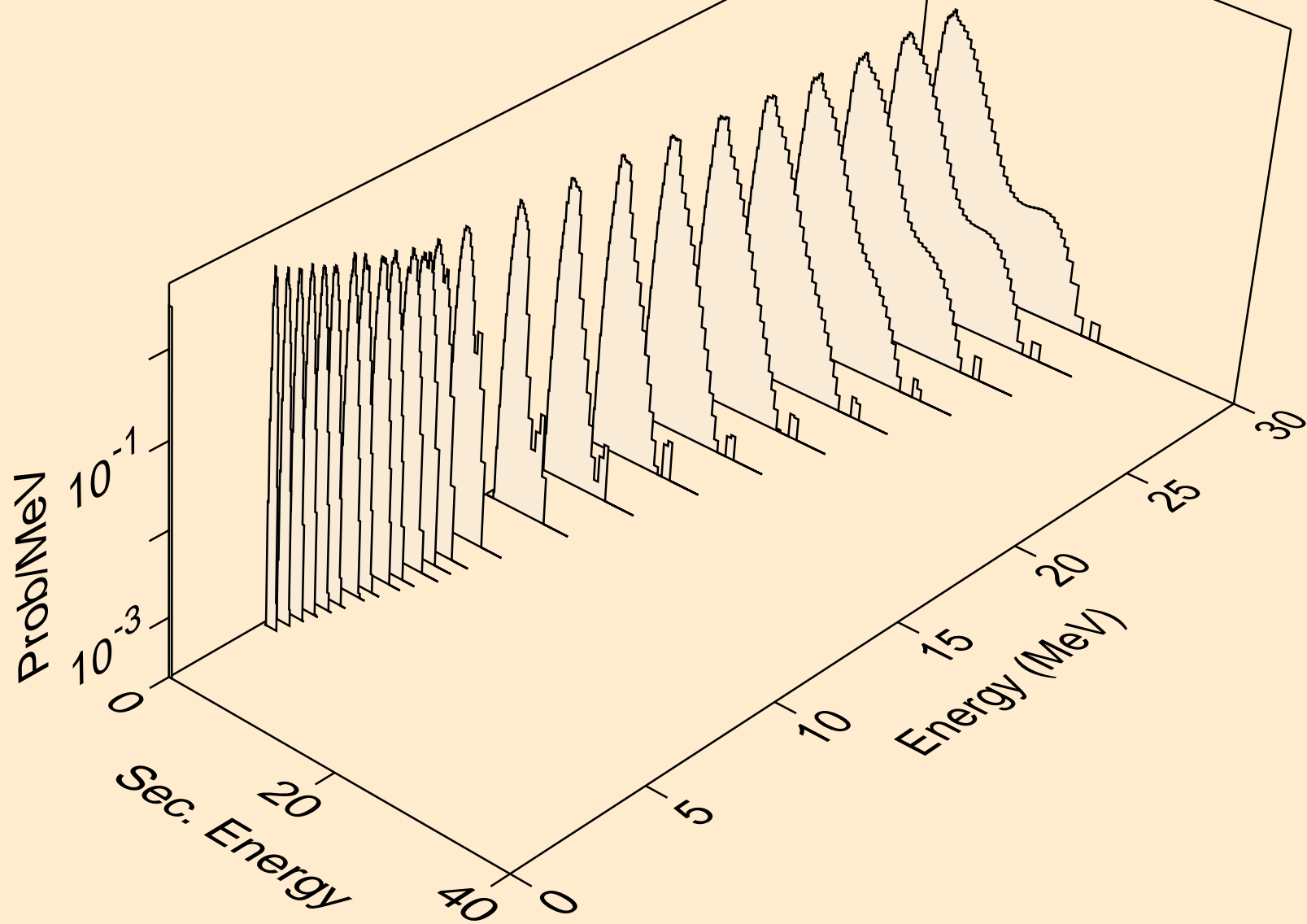
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protons from (n,p)



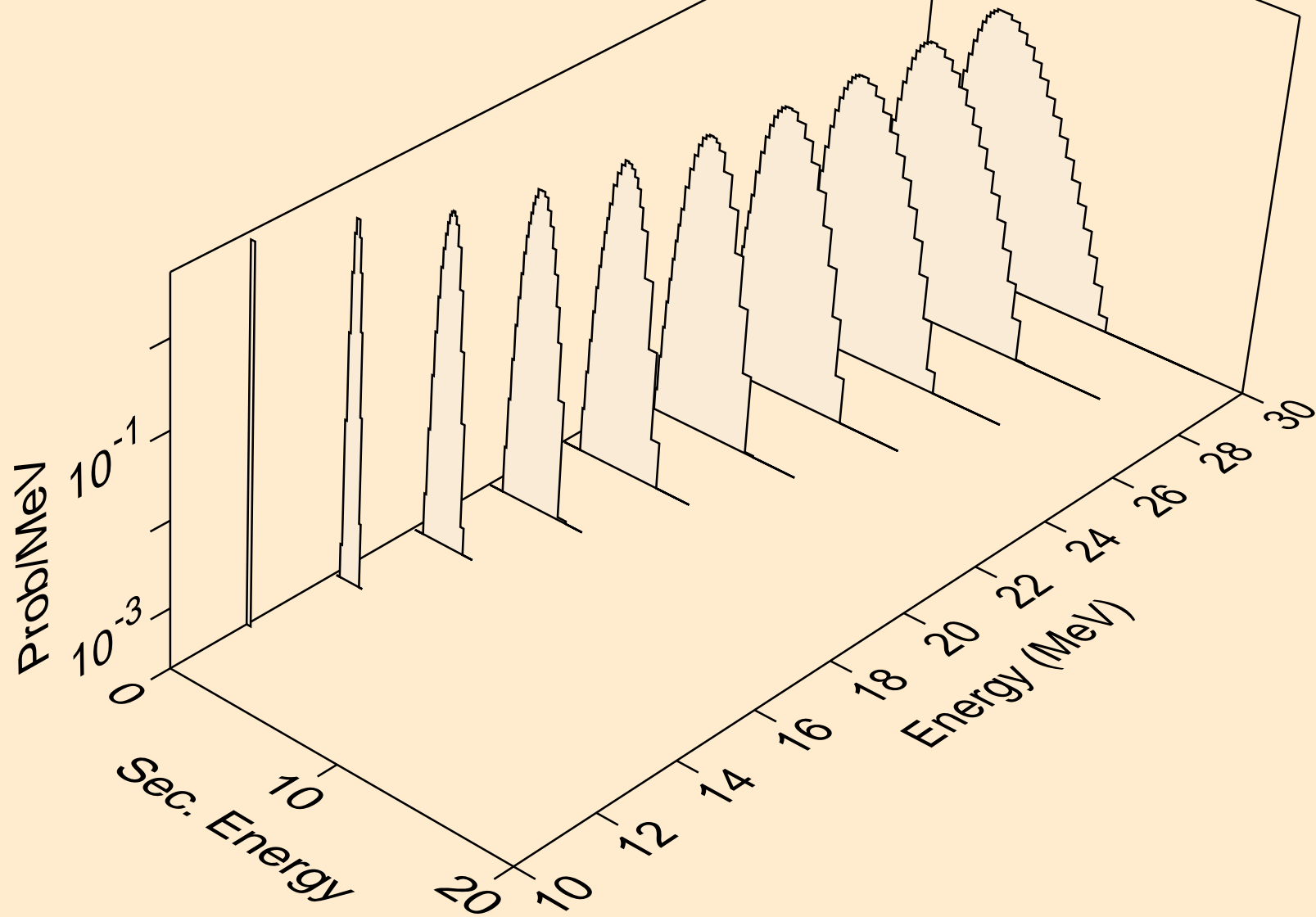
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protons from (n,2p)



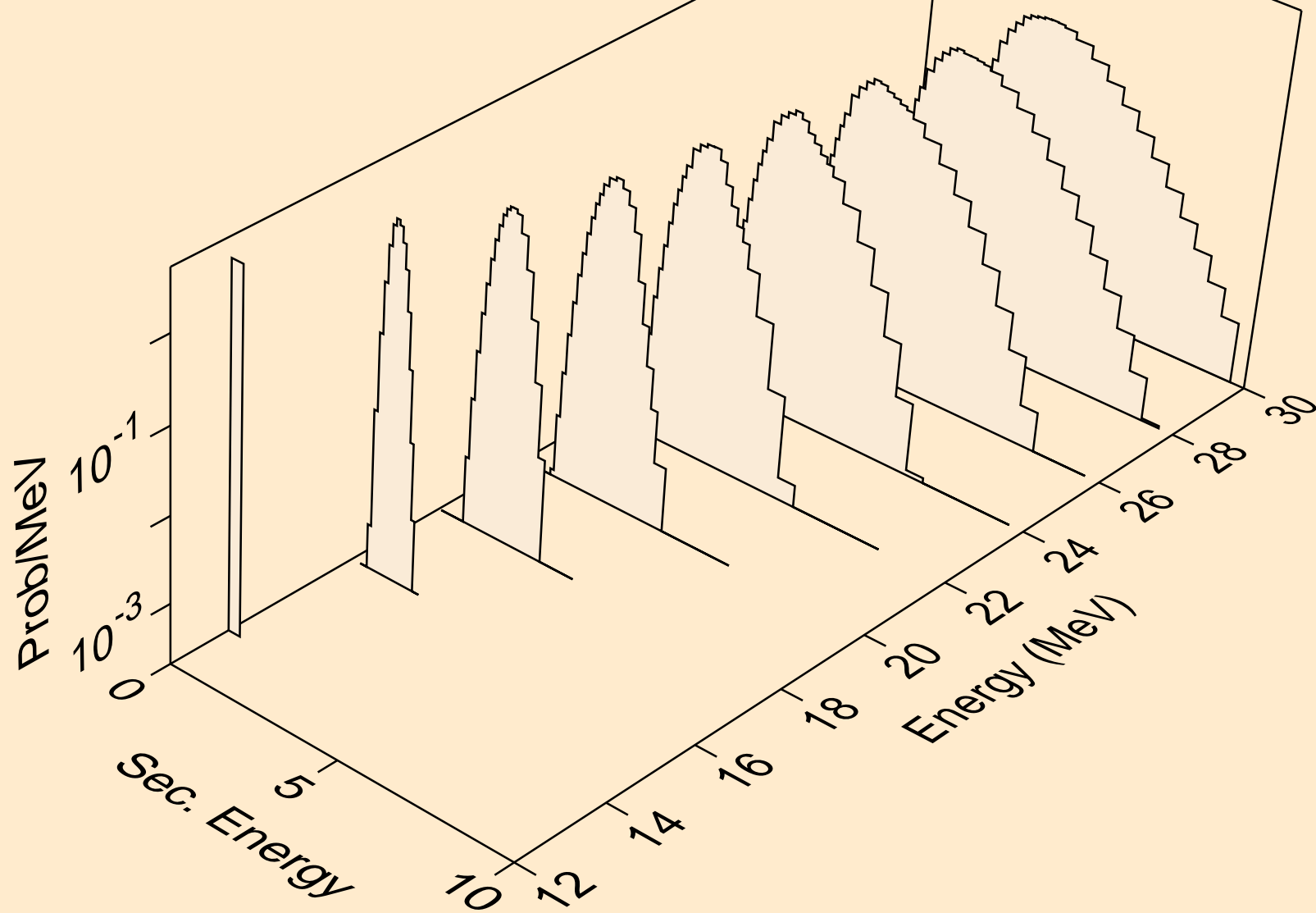
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protons from (n,p)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,pd)

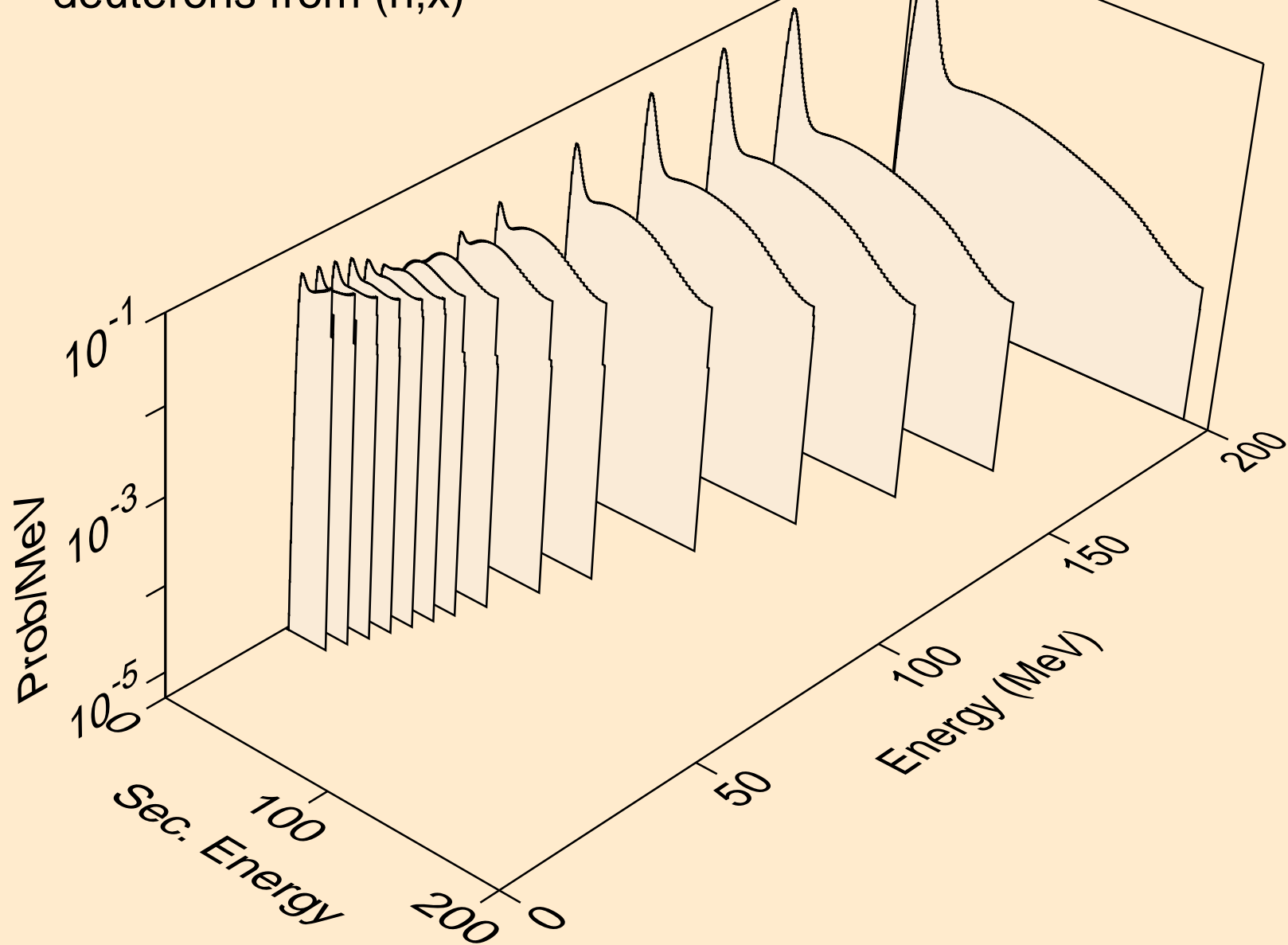


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protons from (n,pt)

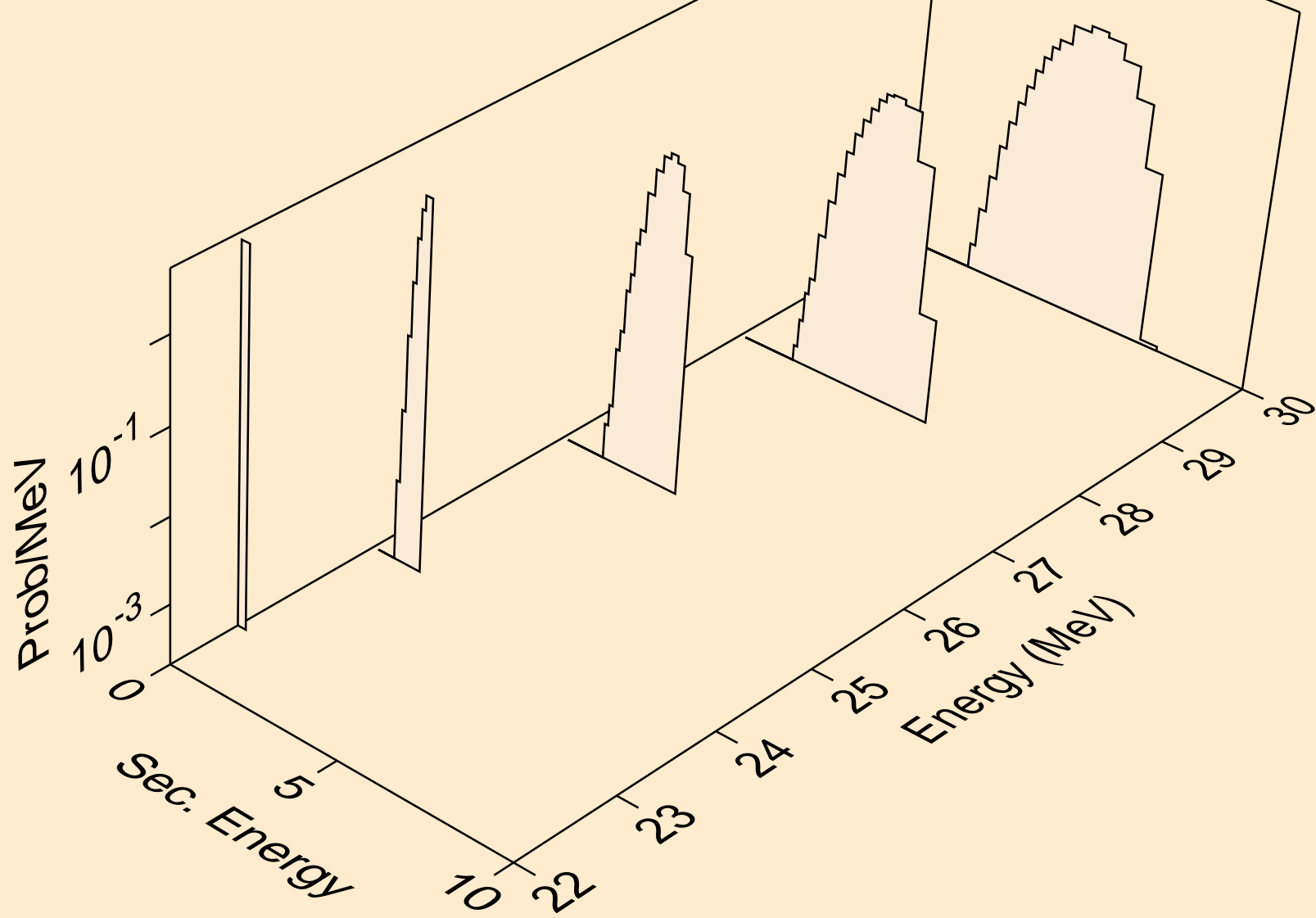




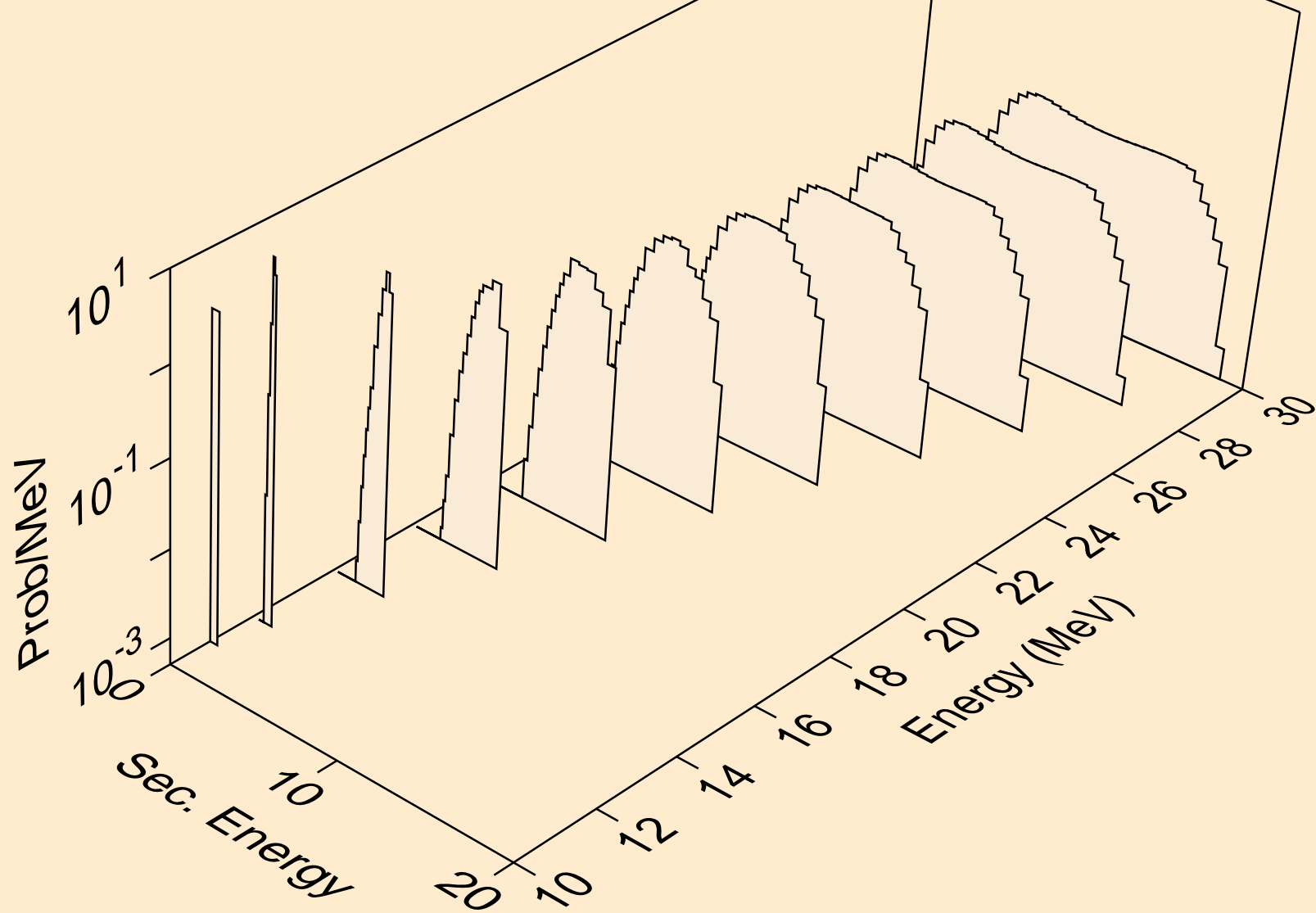
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deuterons from (n,x)



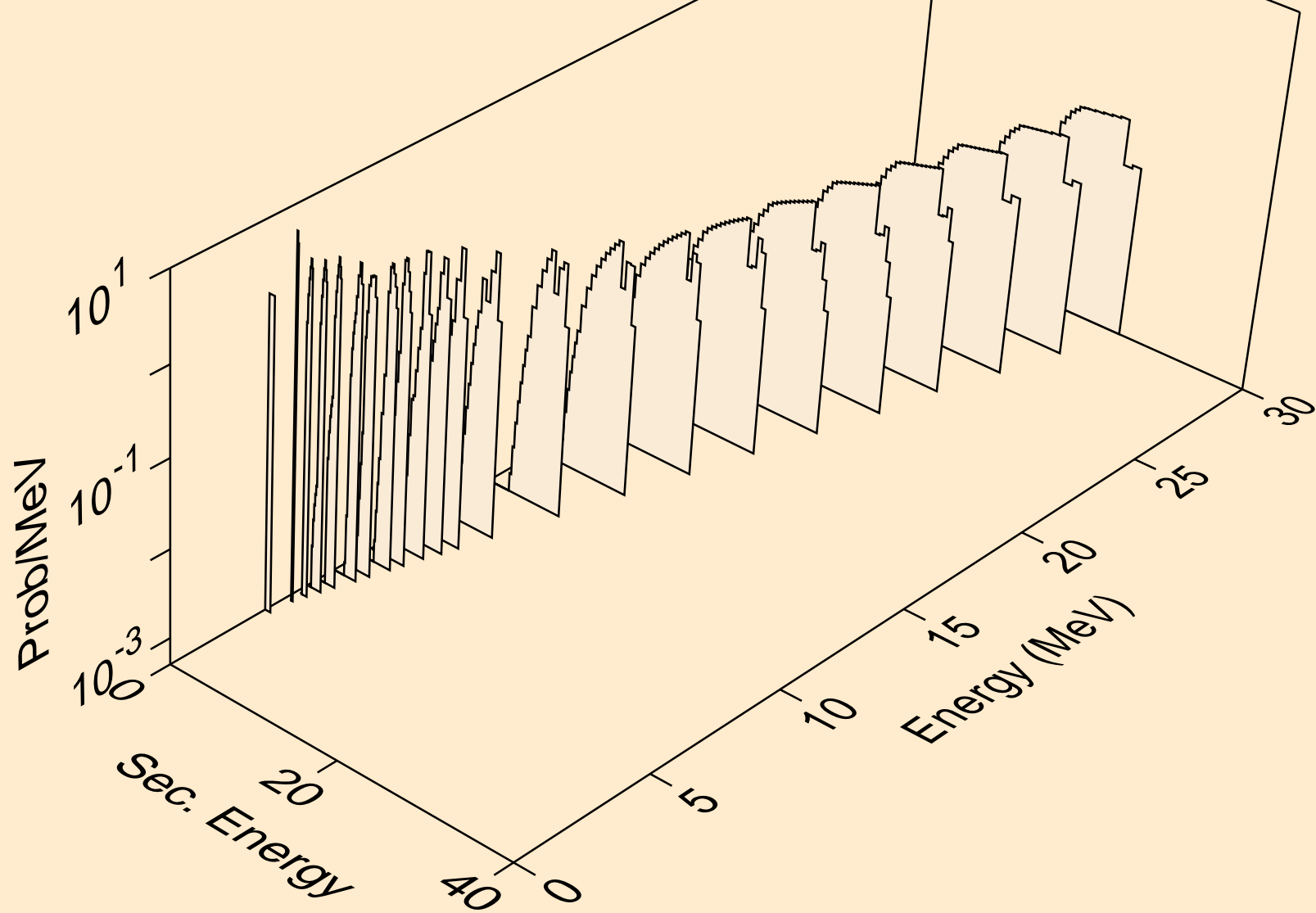
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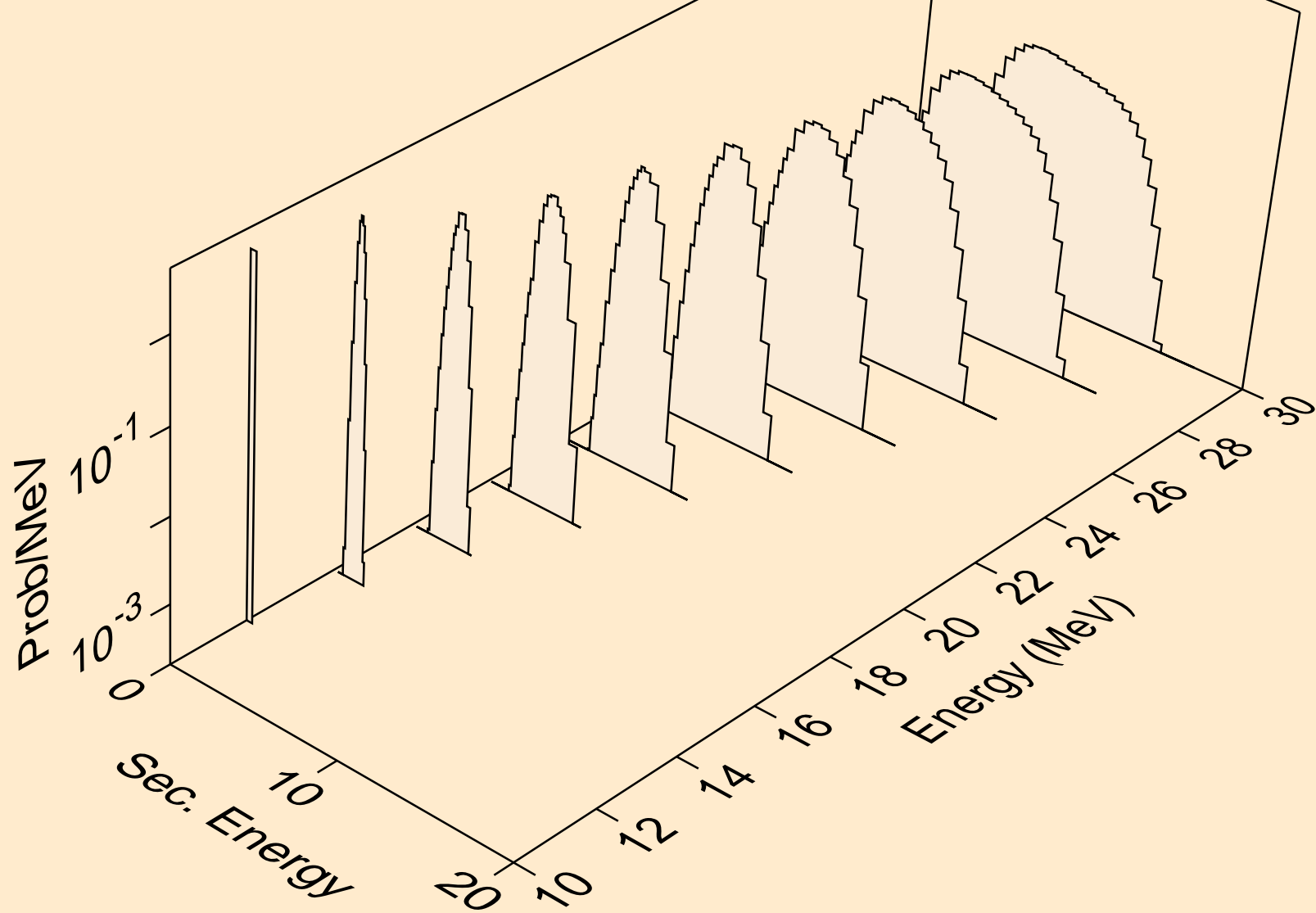
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deuterons from (n,n\*)d



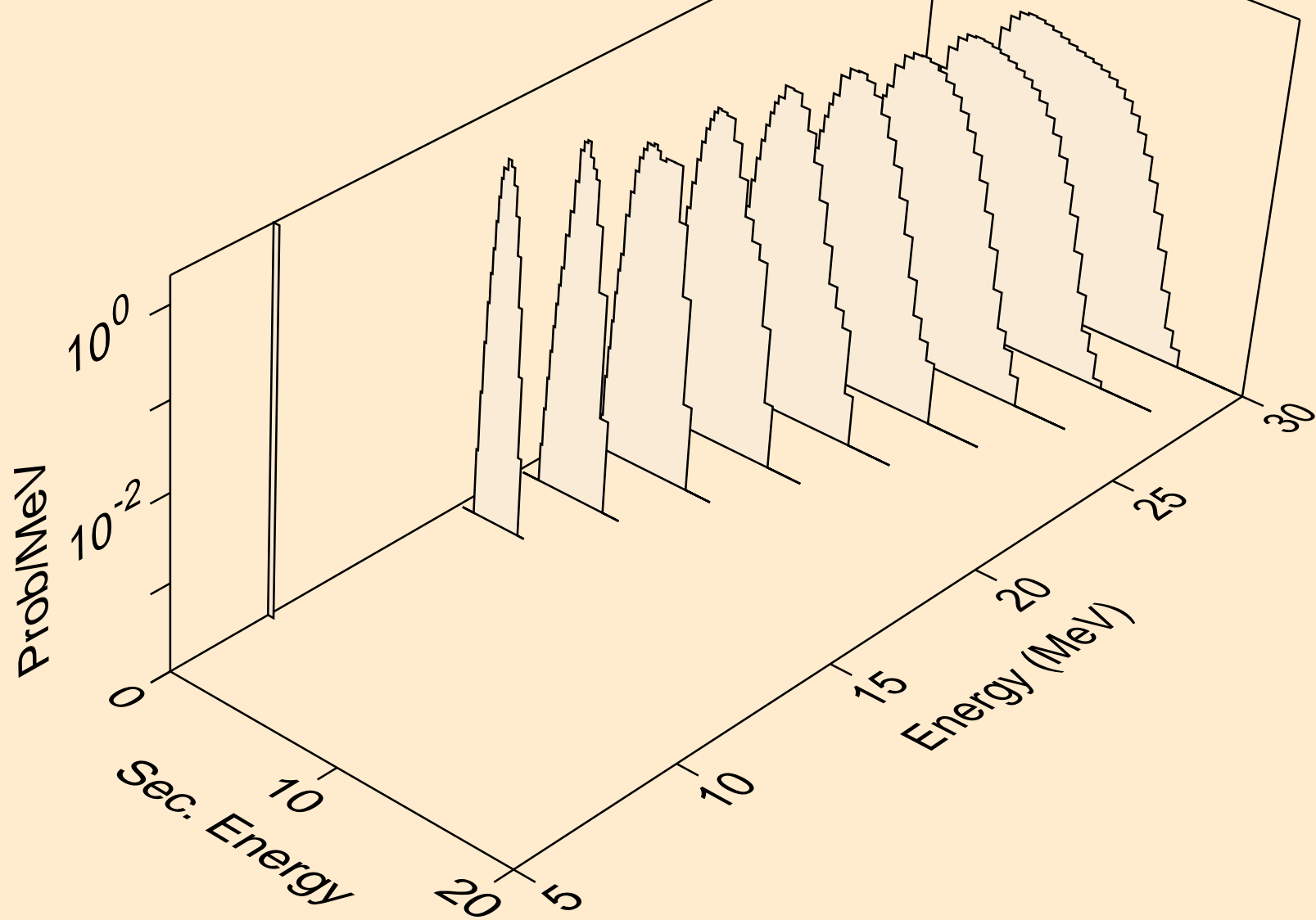
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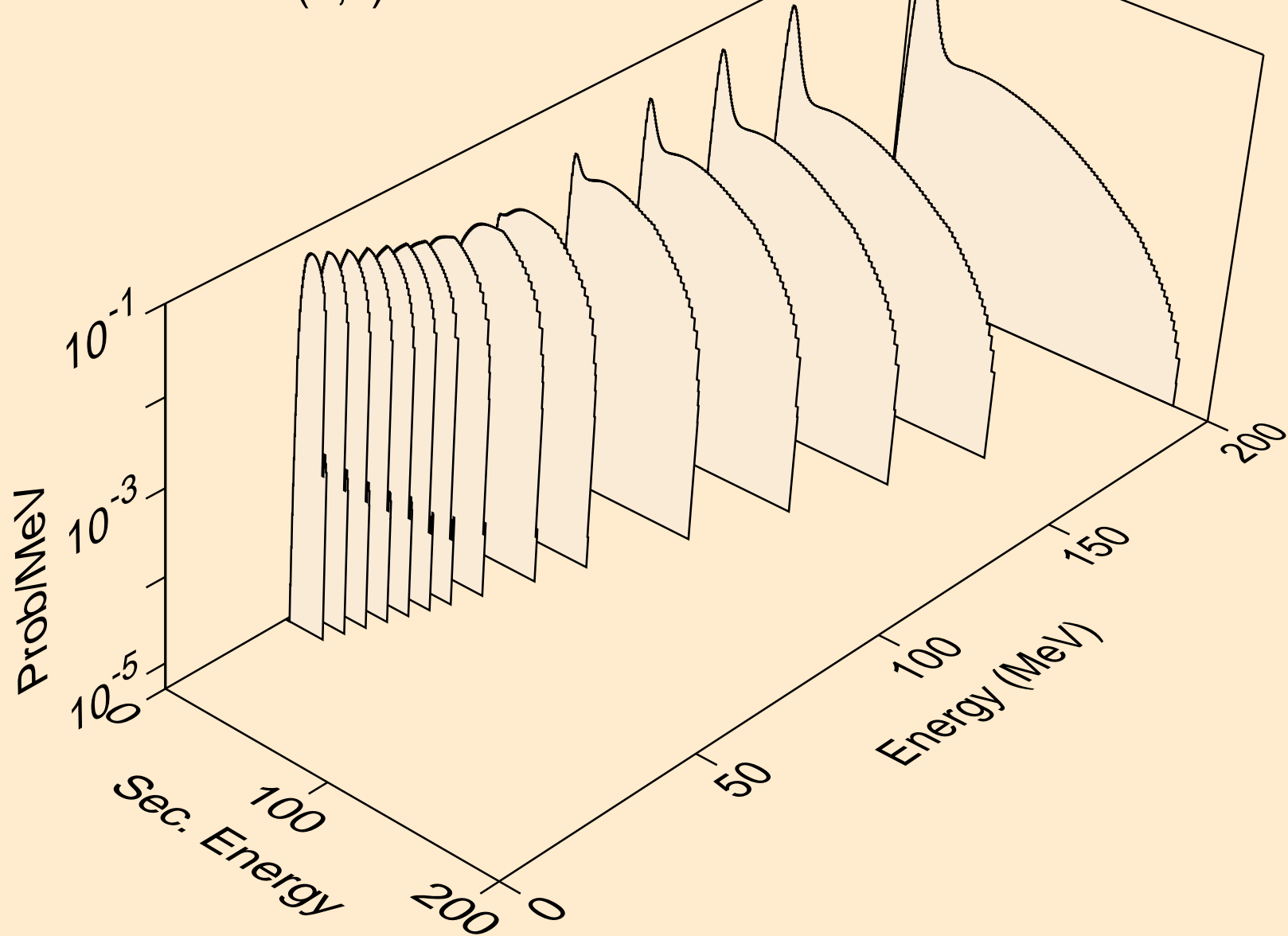
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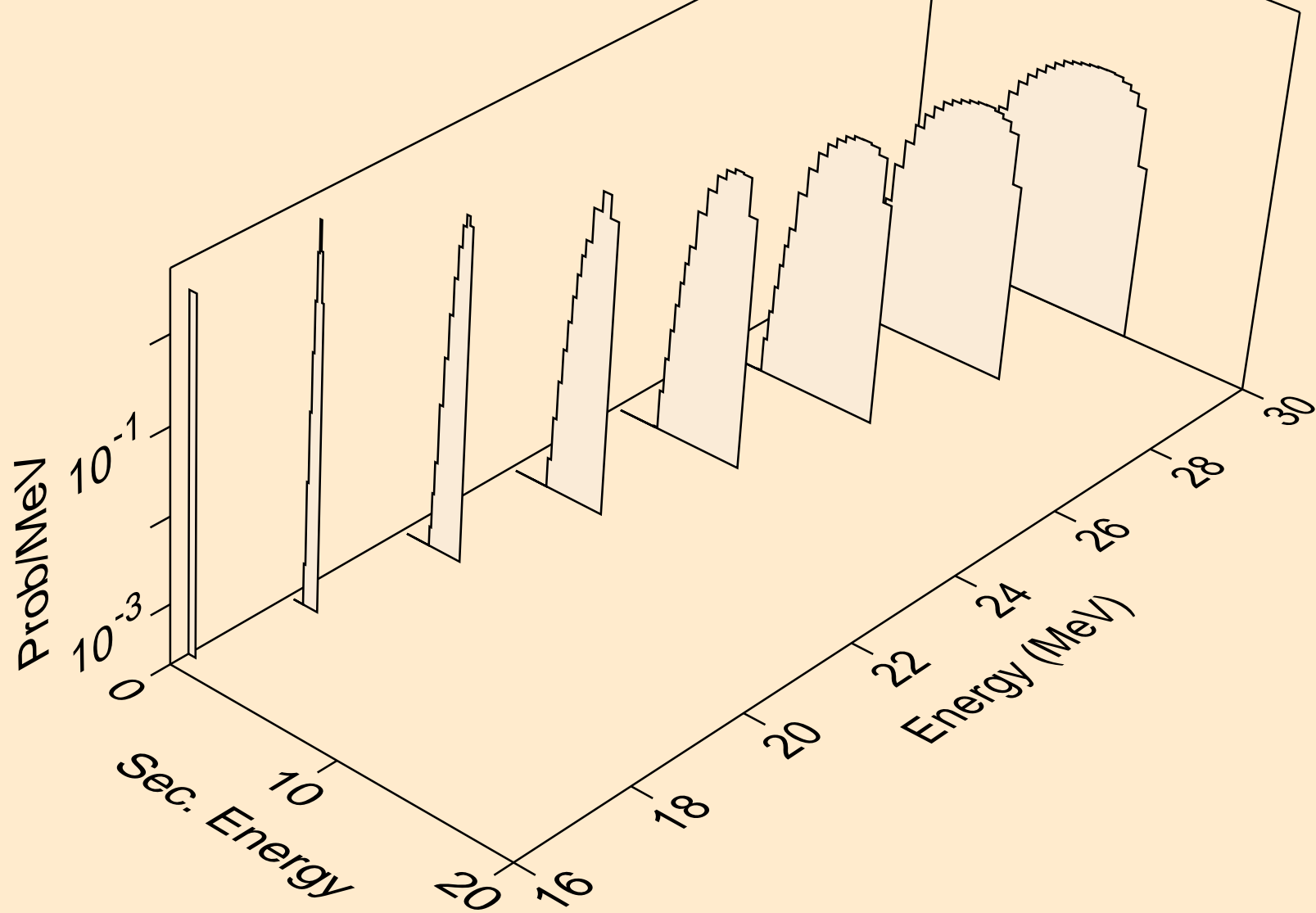
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,da)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,x)

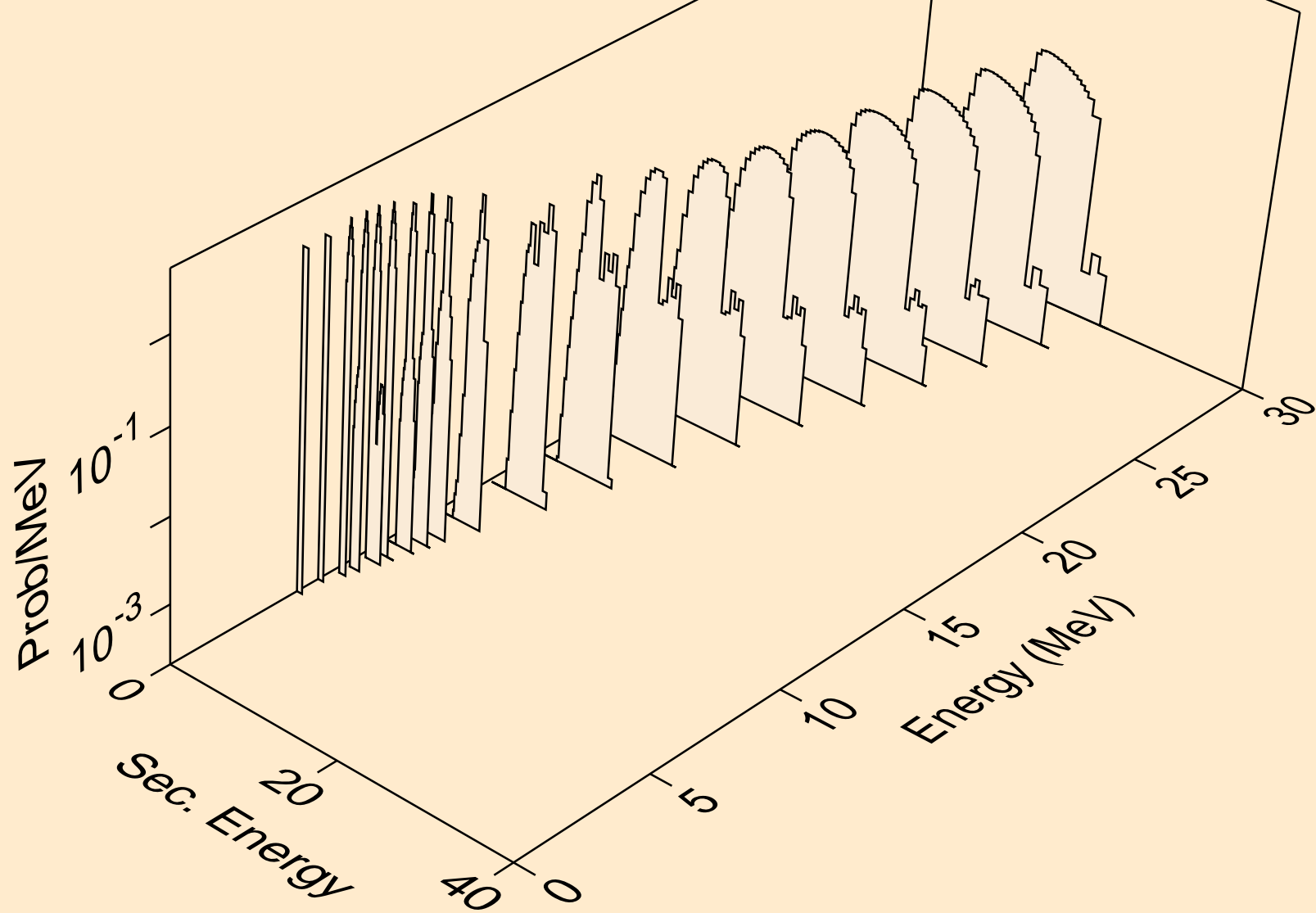


AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,n\*)t

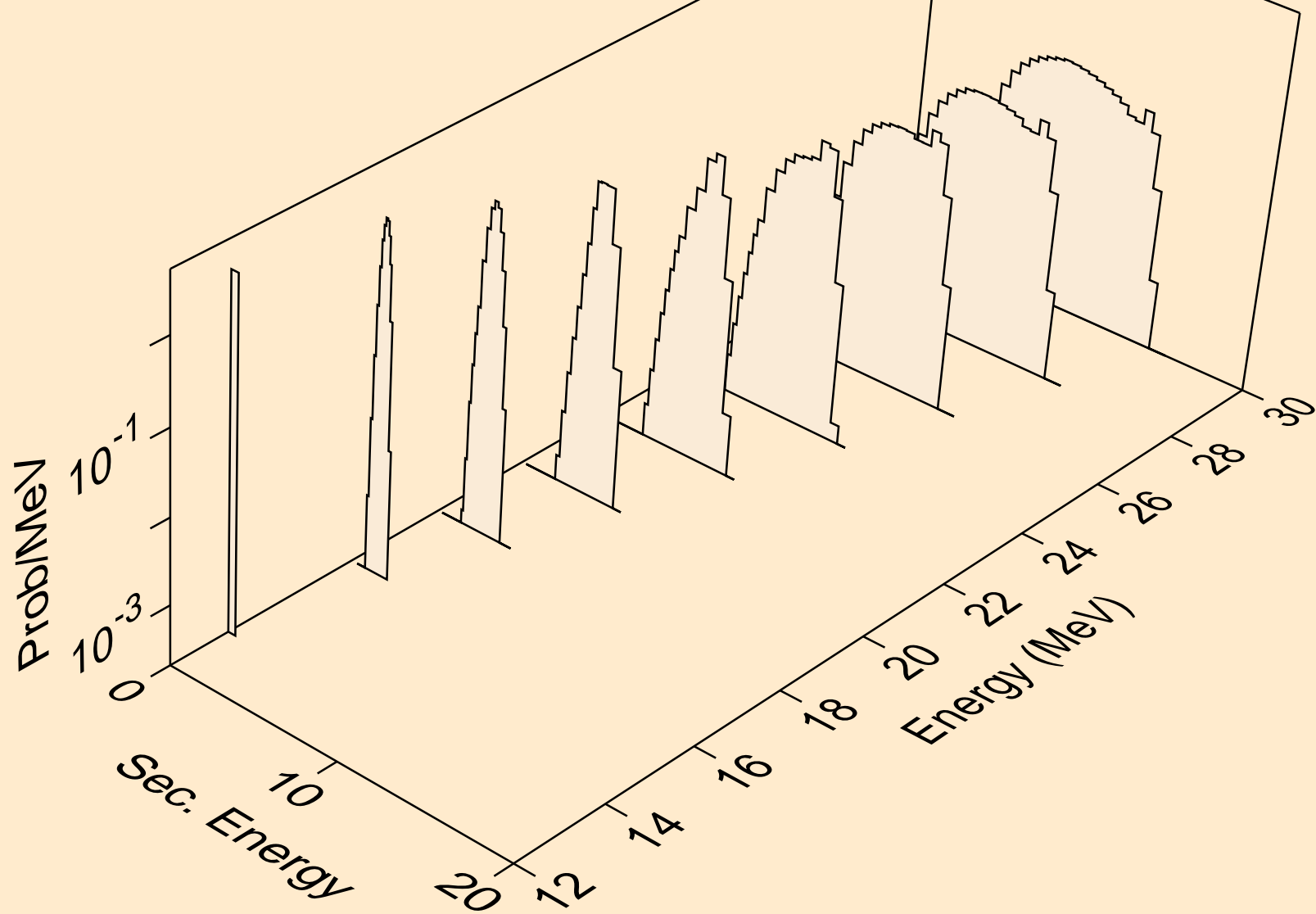




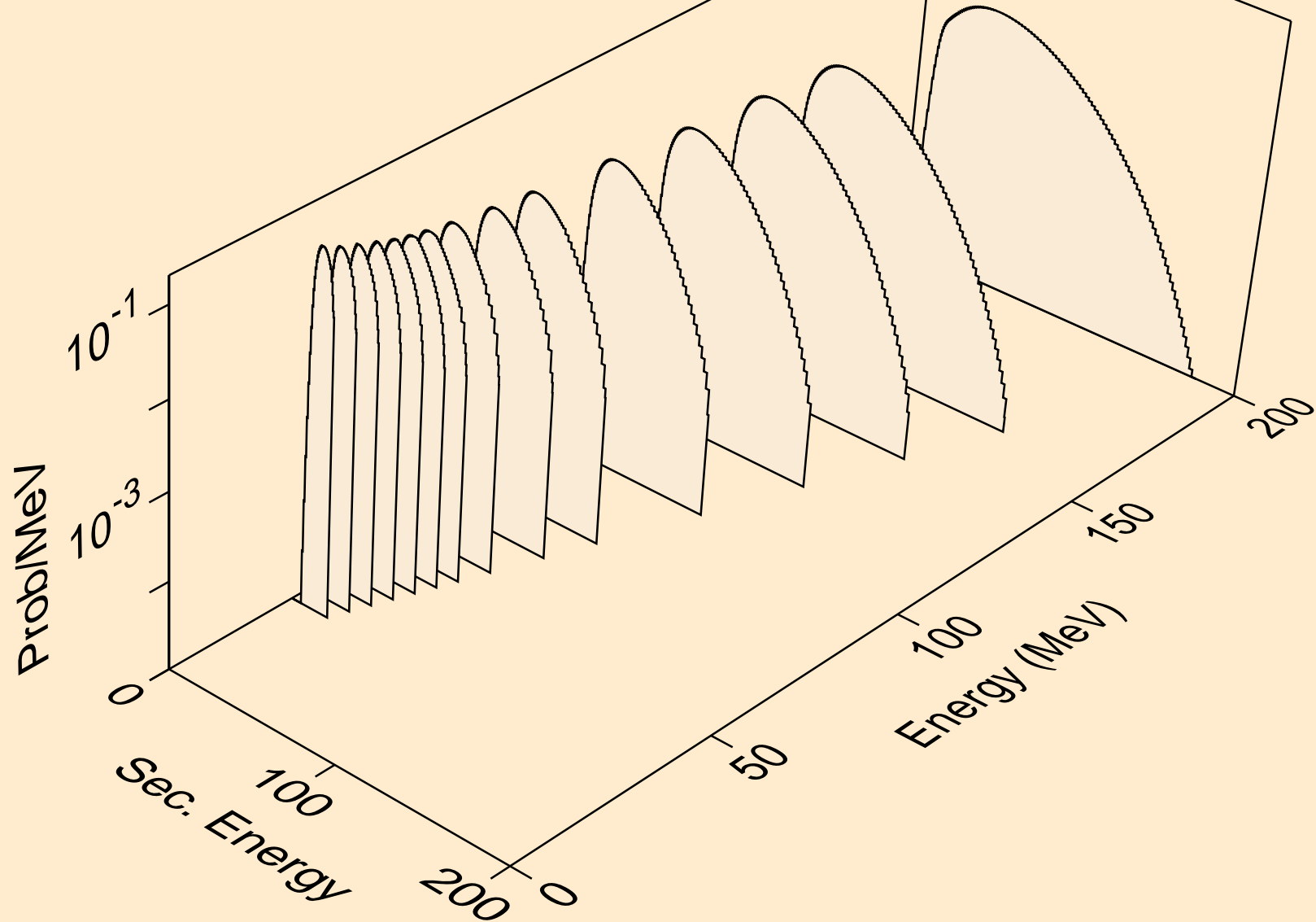
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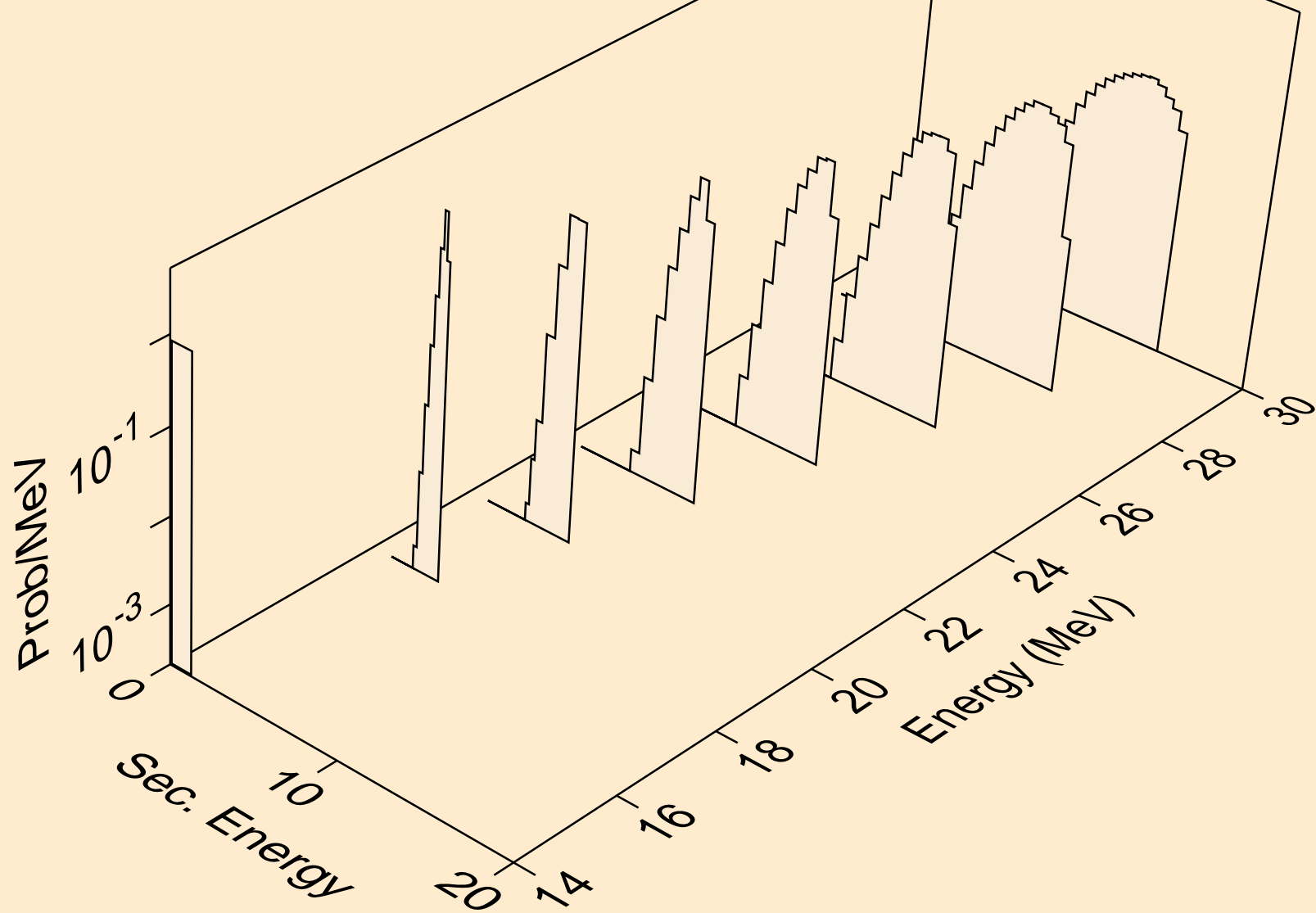
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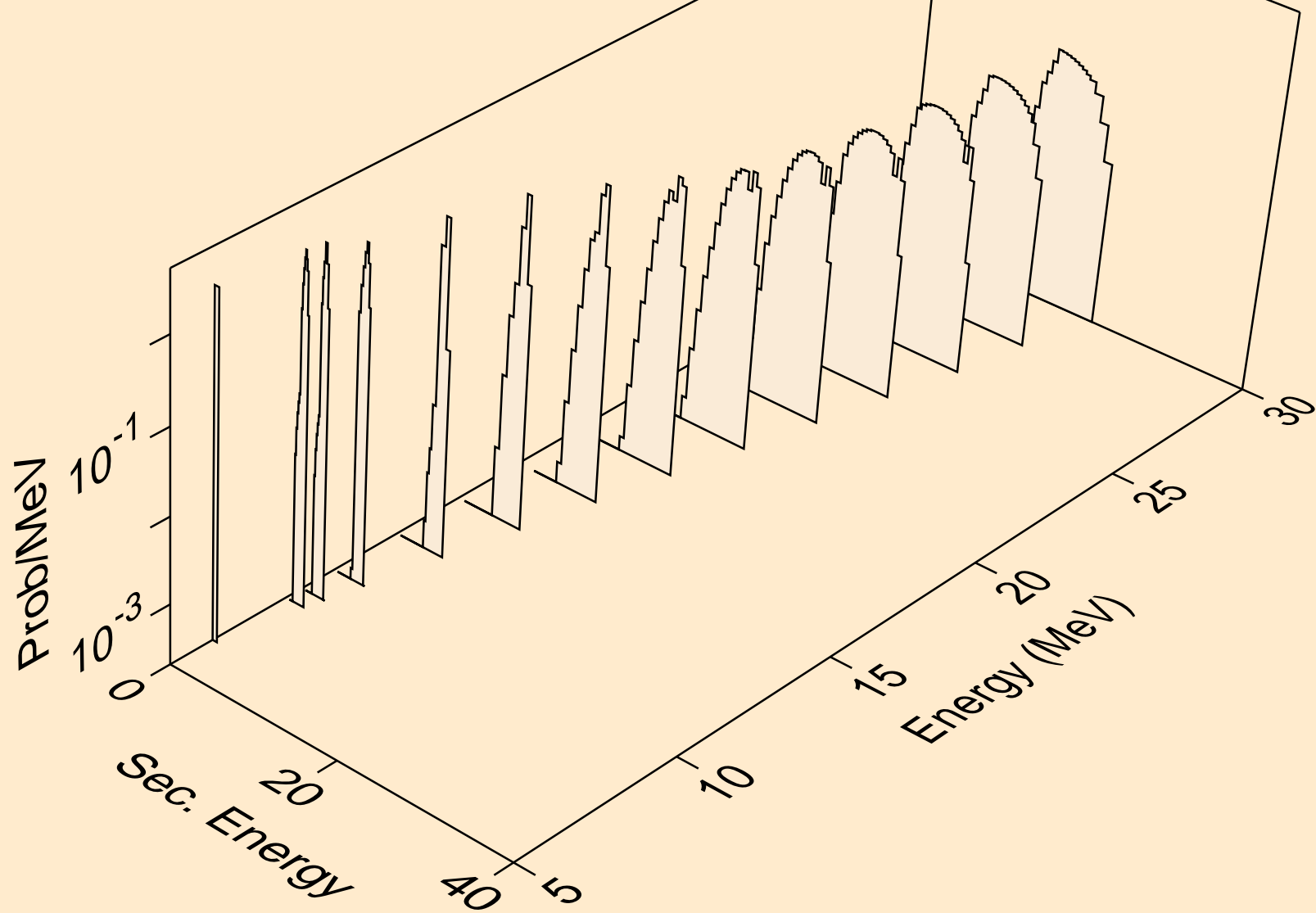
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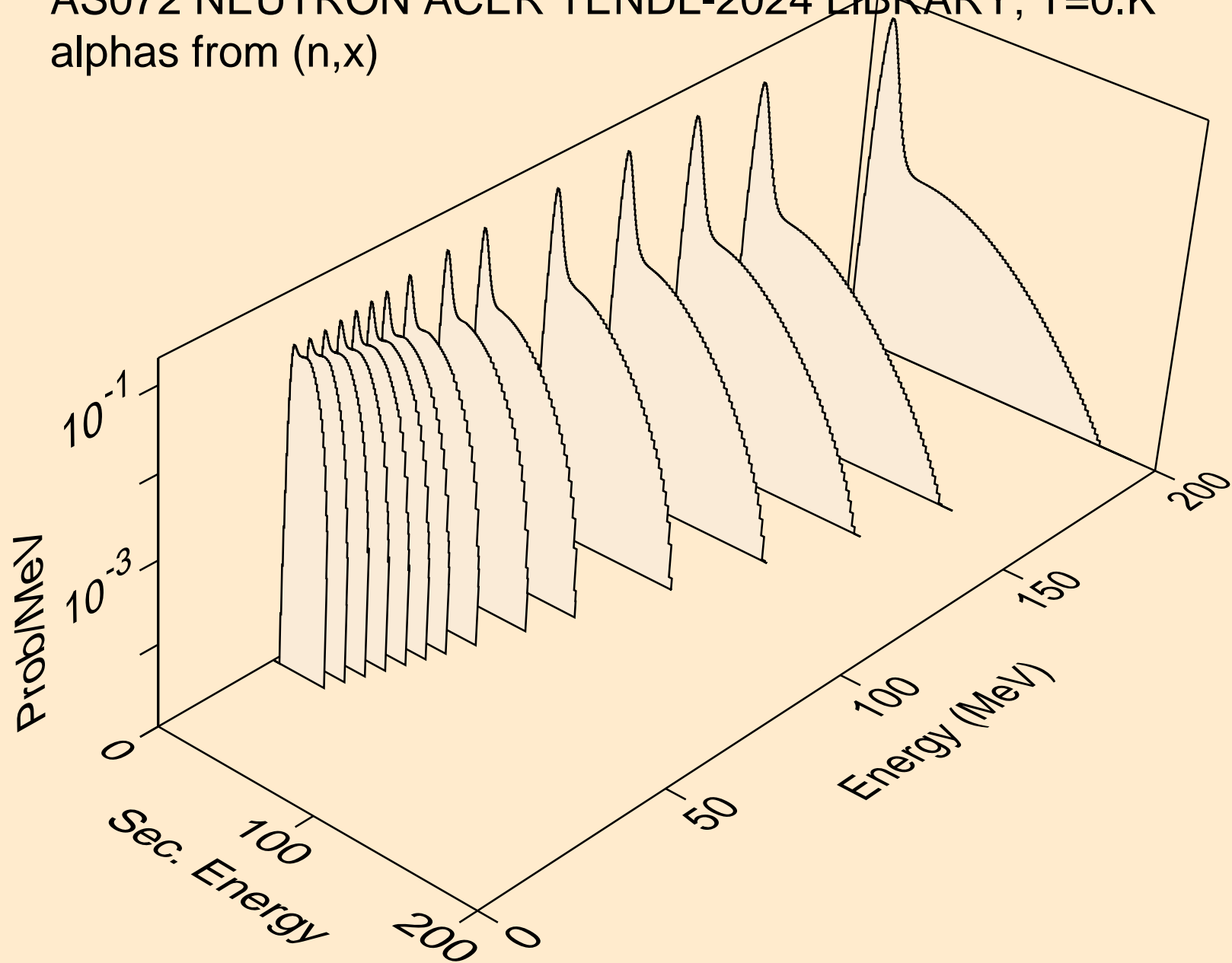
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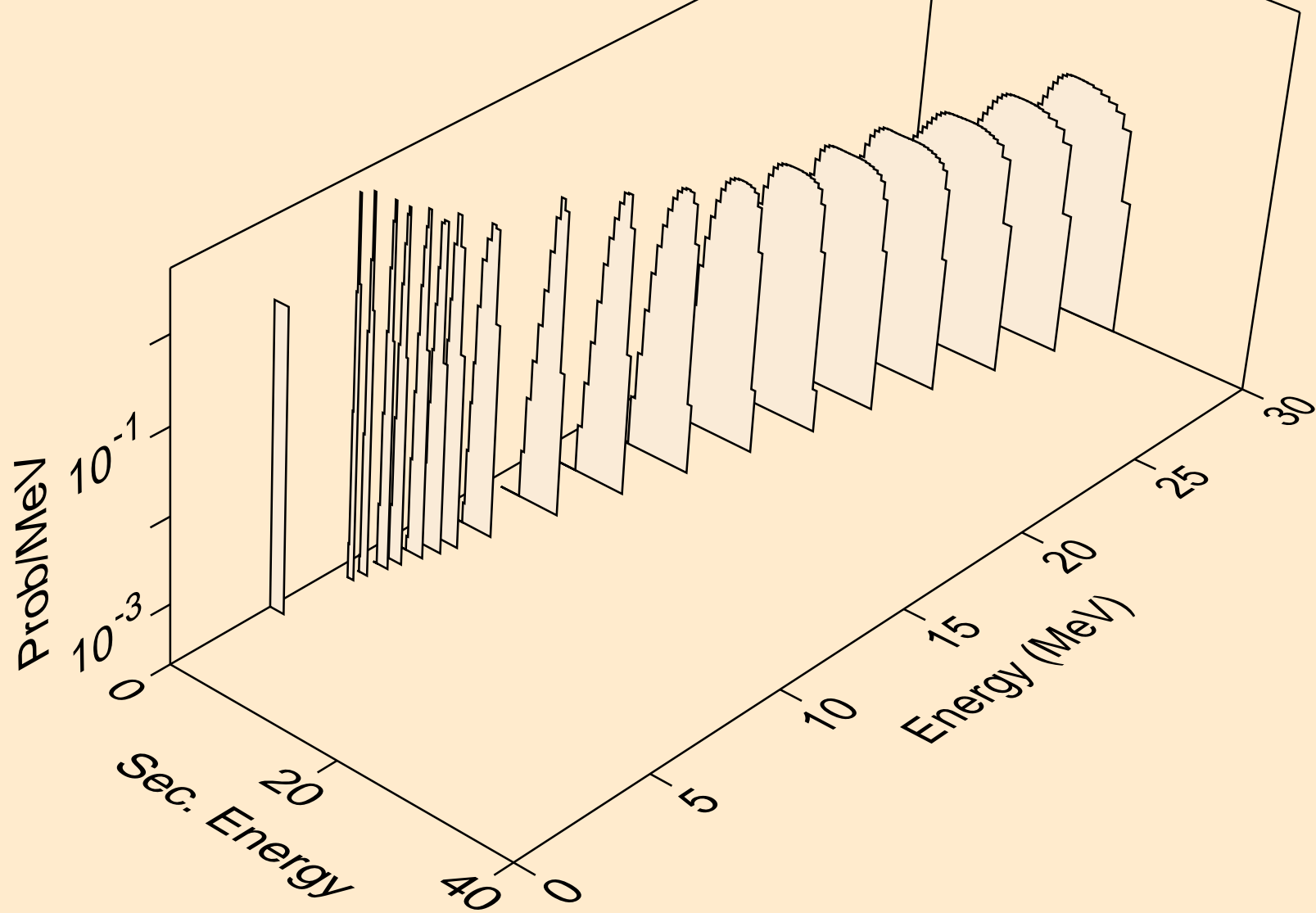
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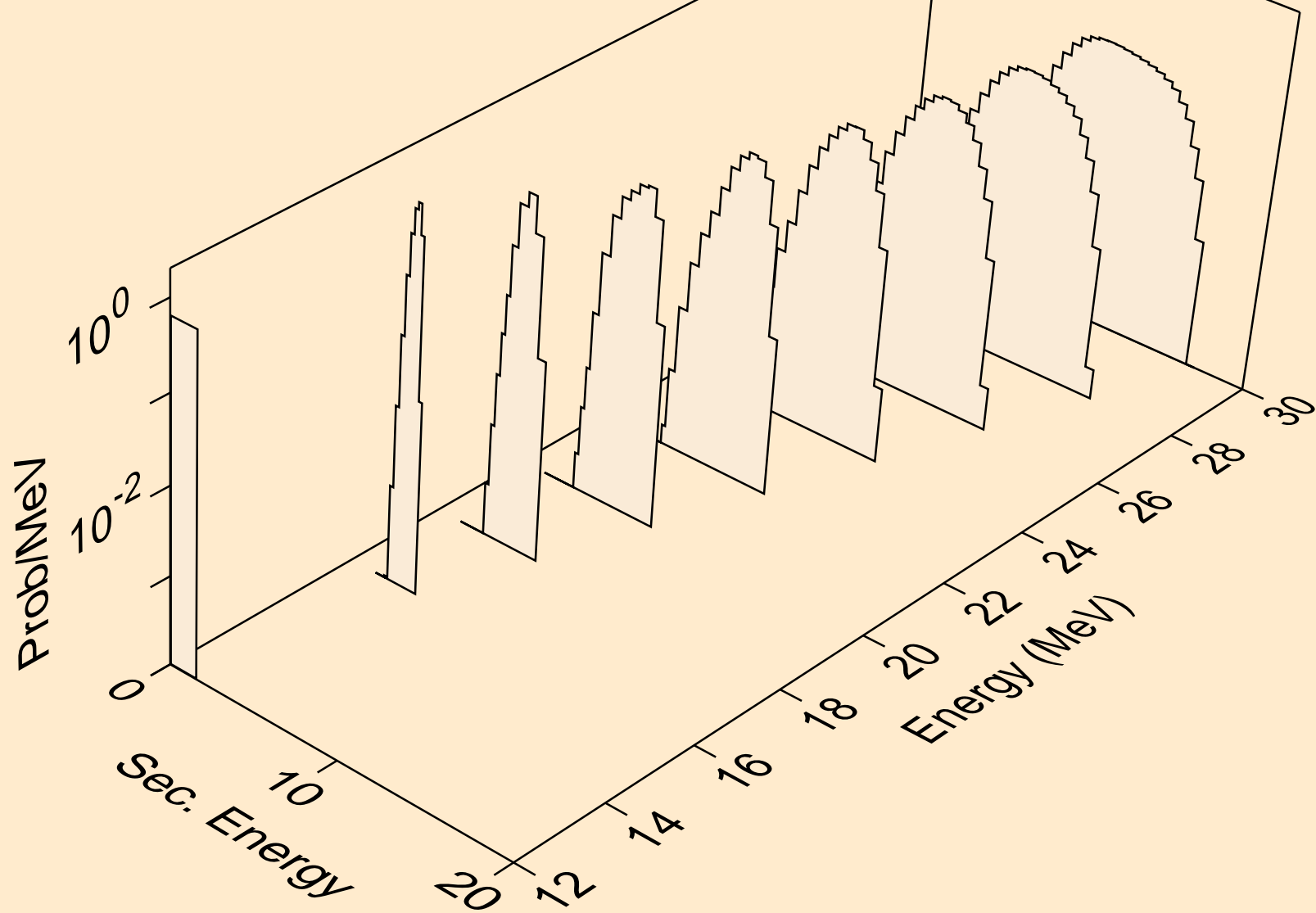
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alphas from (n,x)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a

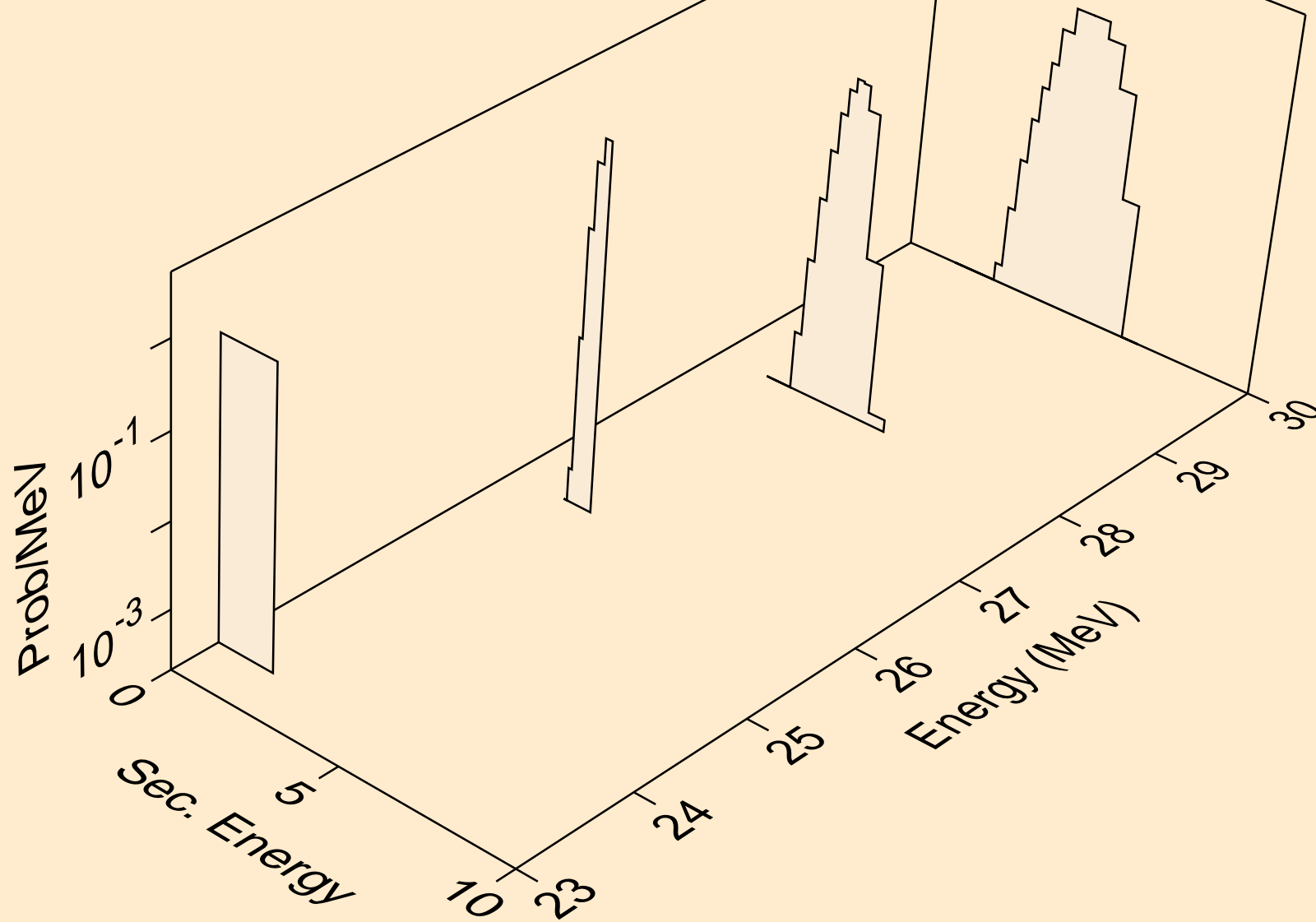


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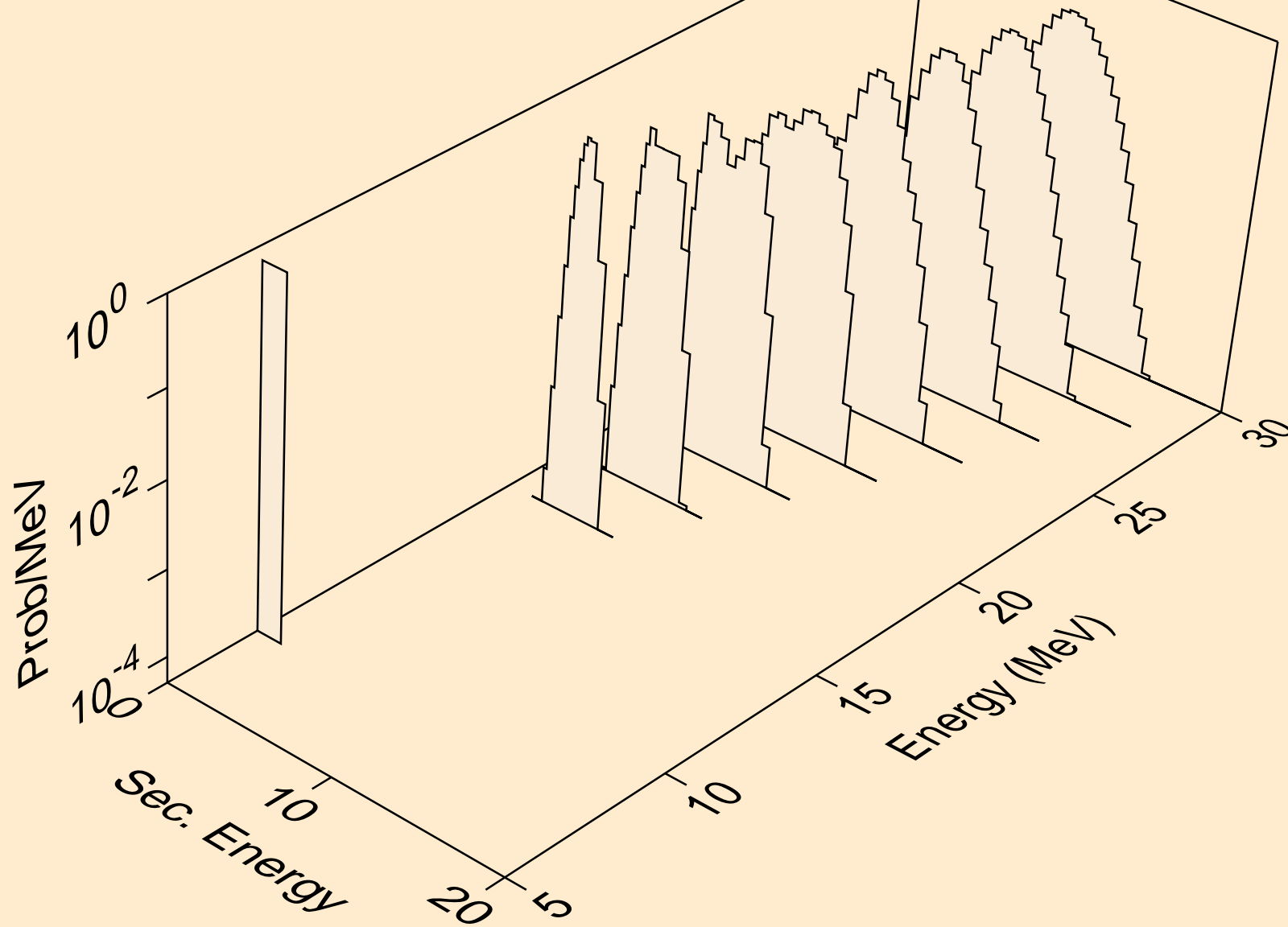




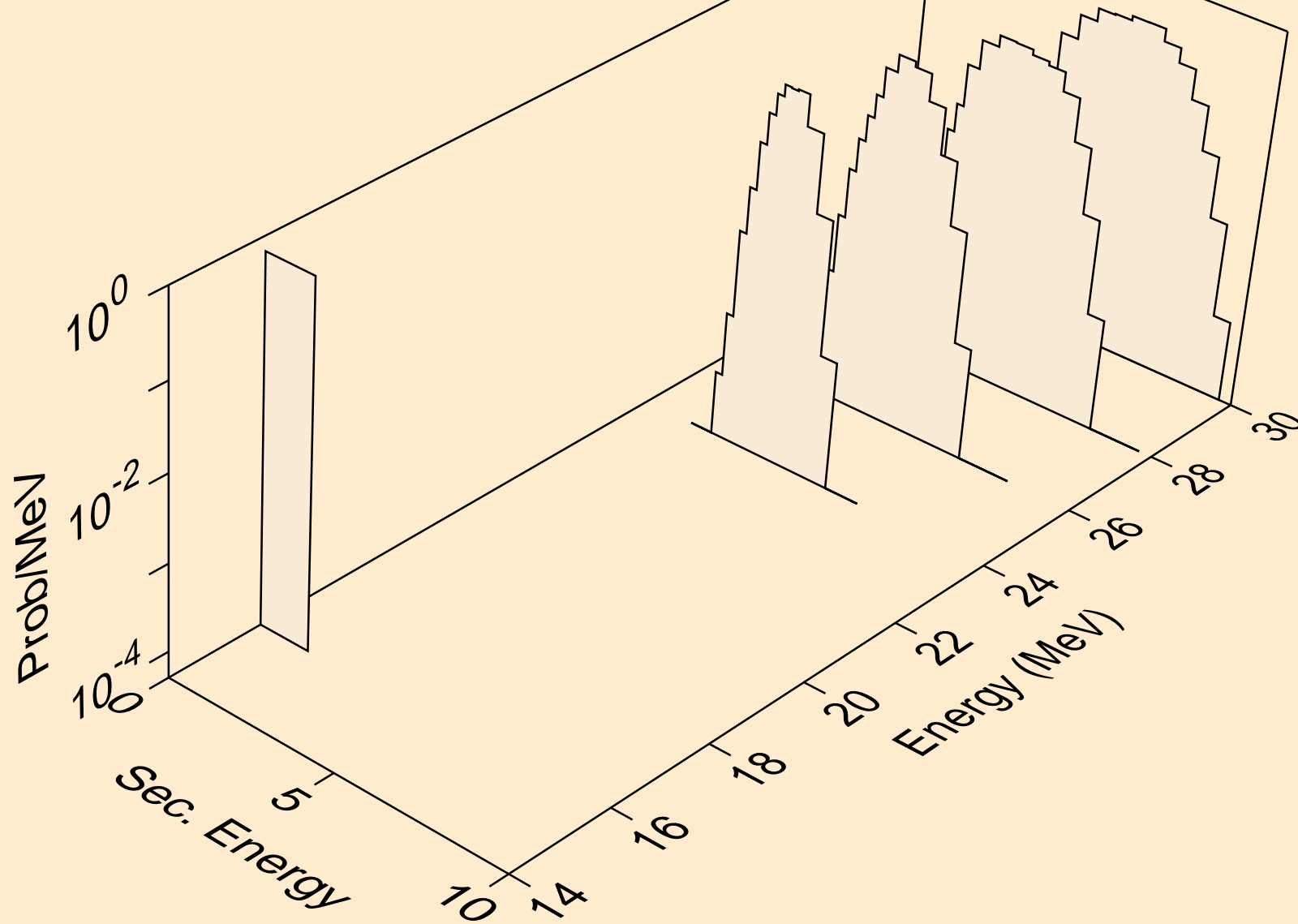
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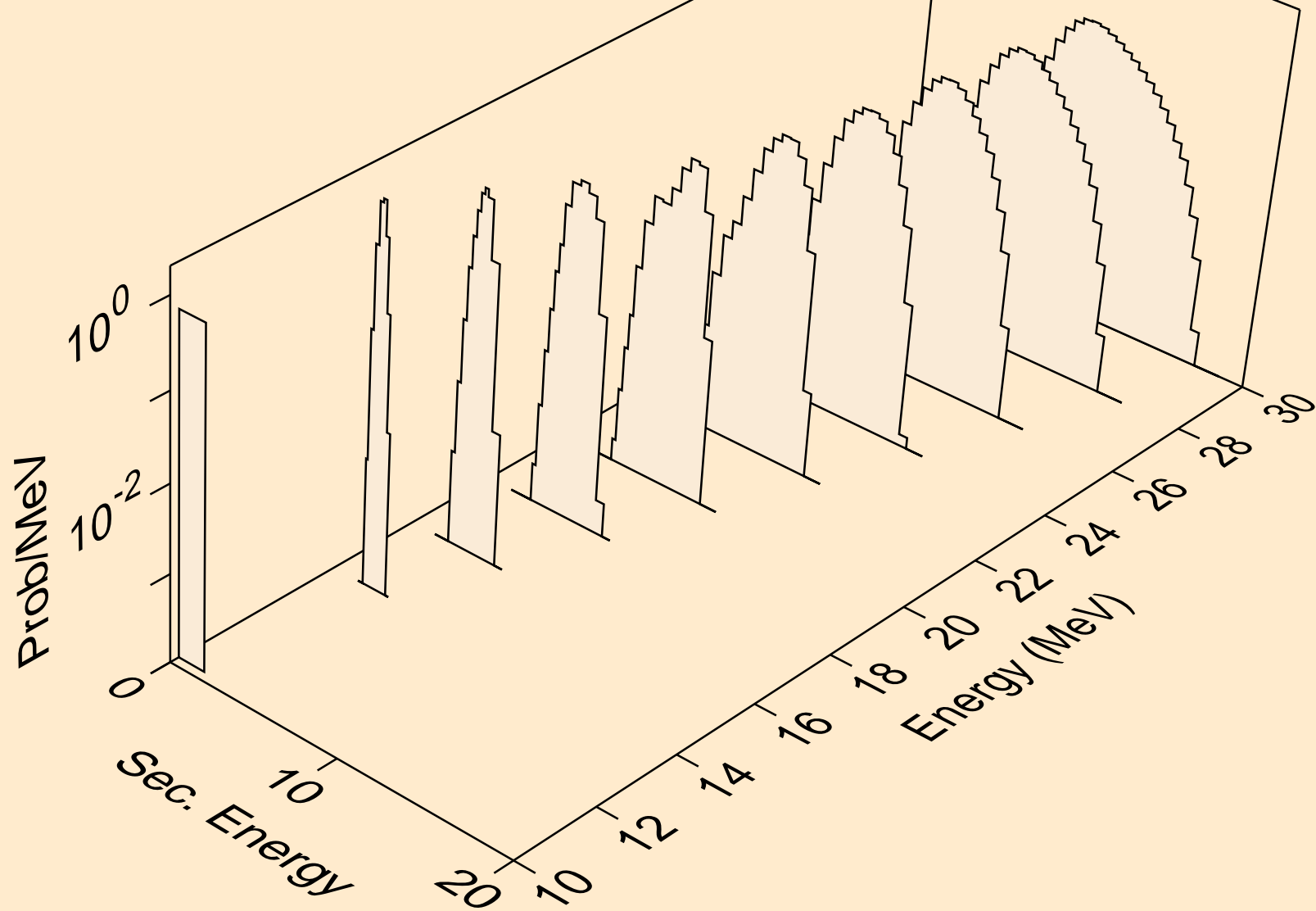
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alphas from (n,n\*)2a



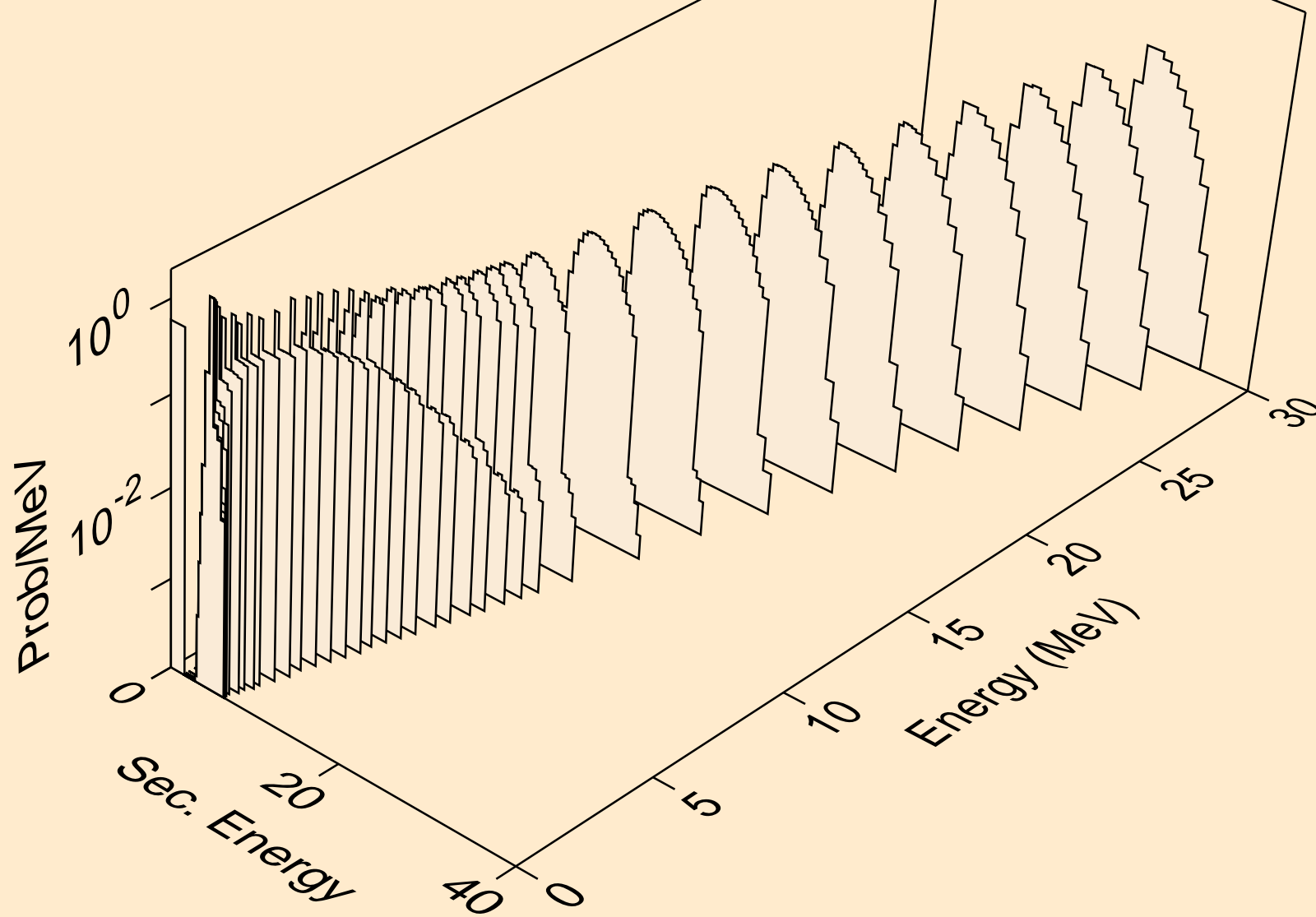
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alphas from (n,2n)2a



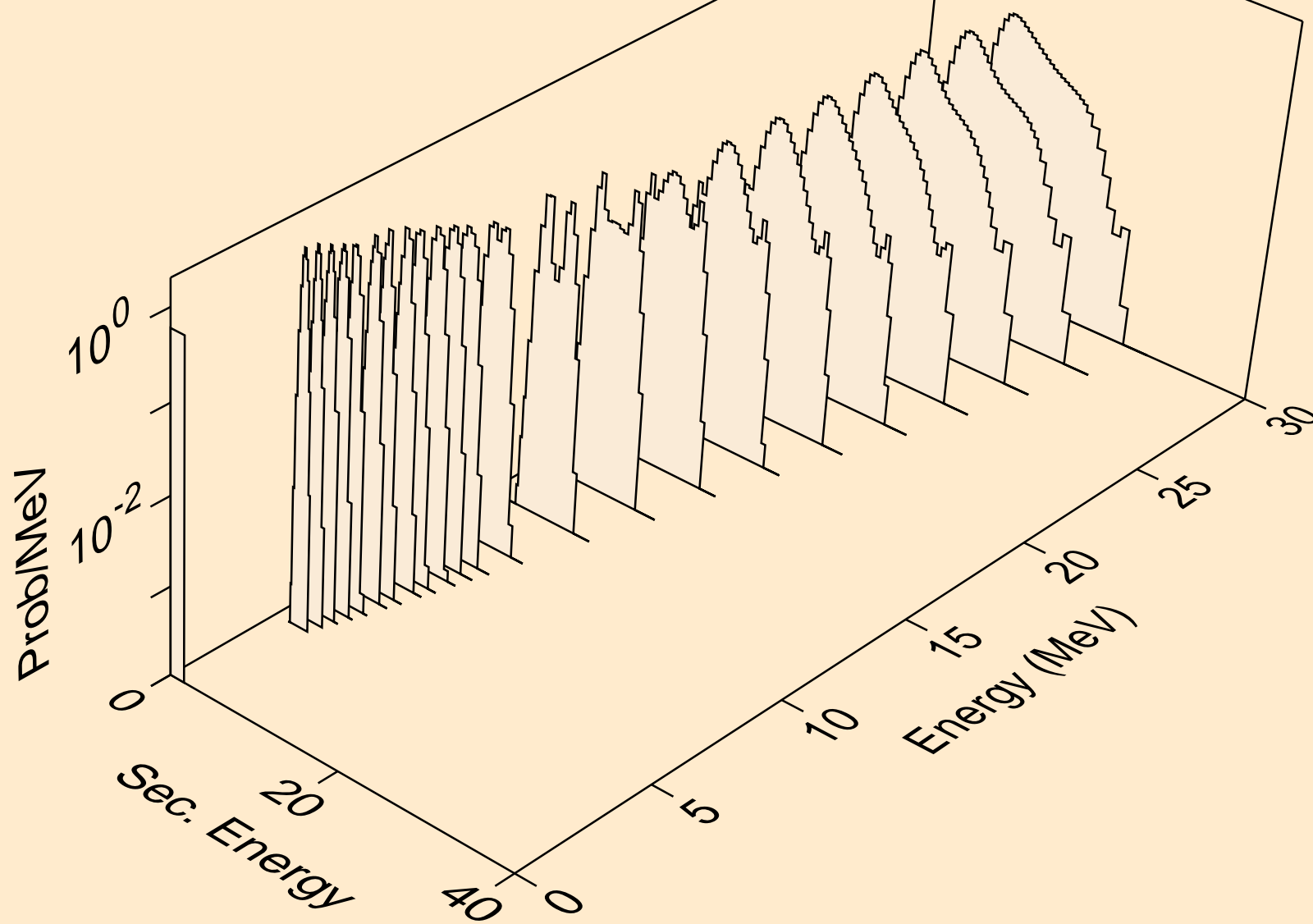
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alphas from (n,npa)



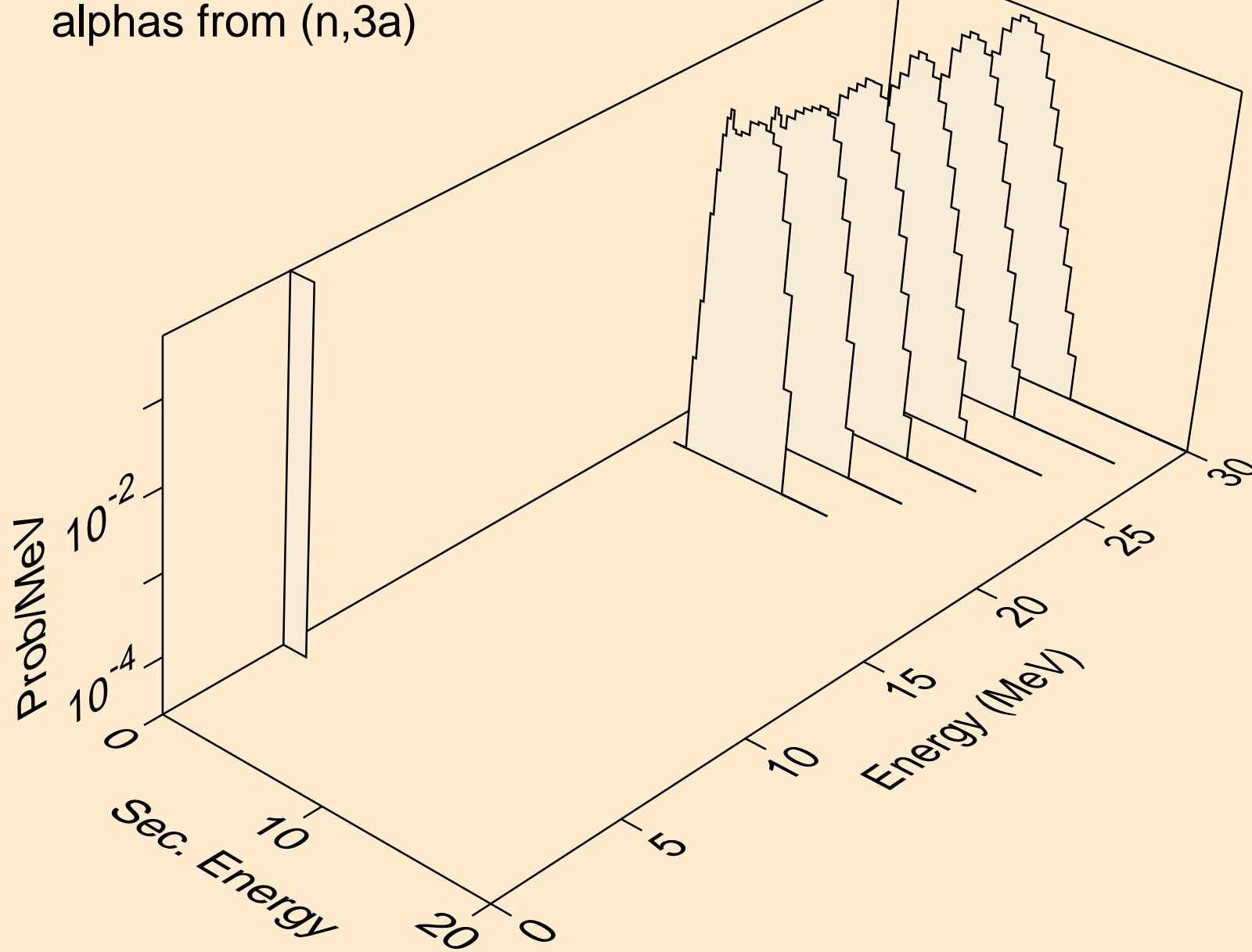
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alphas from (n,a)



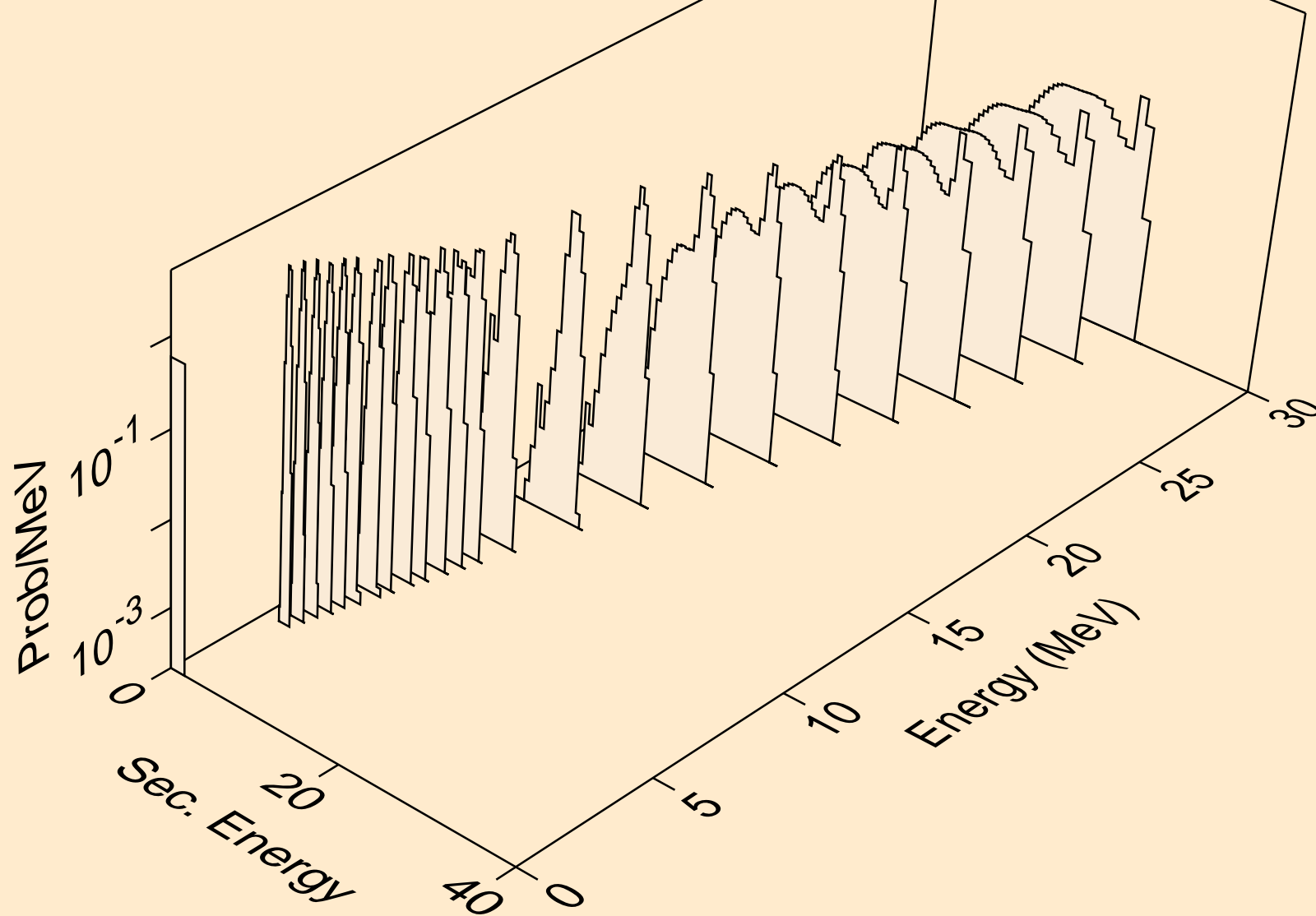
AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3a)



AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)





AS072 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

