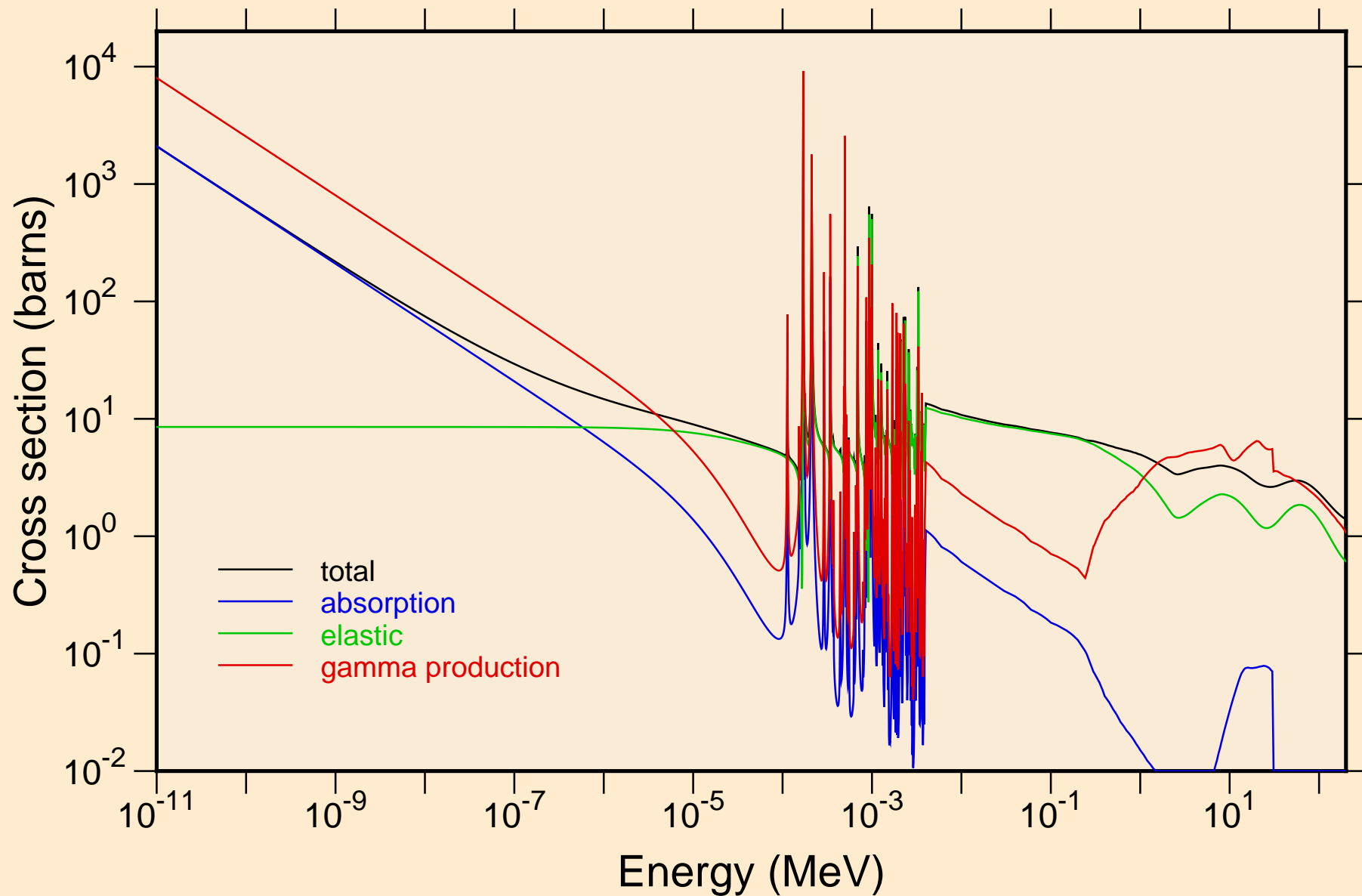
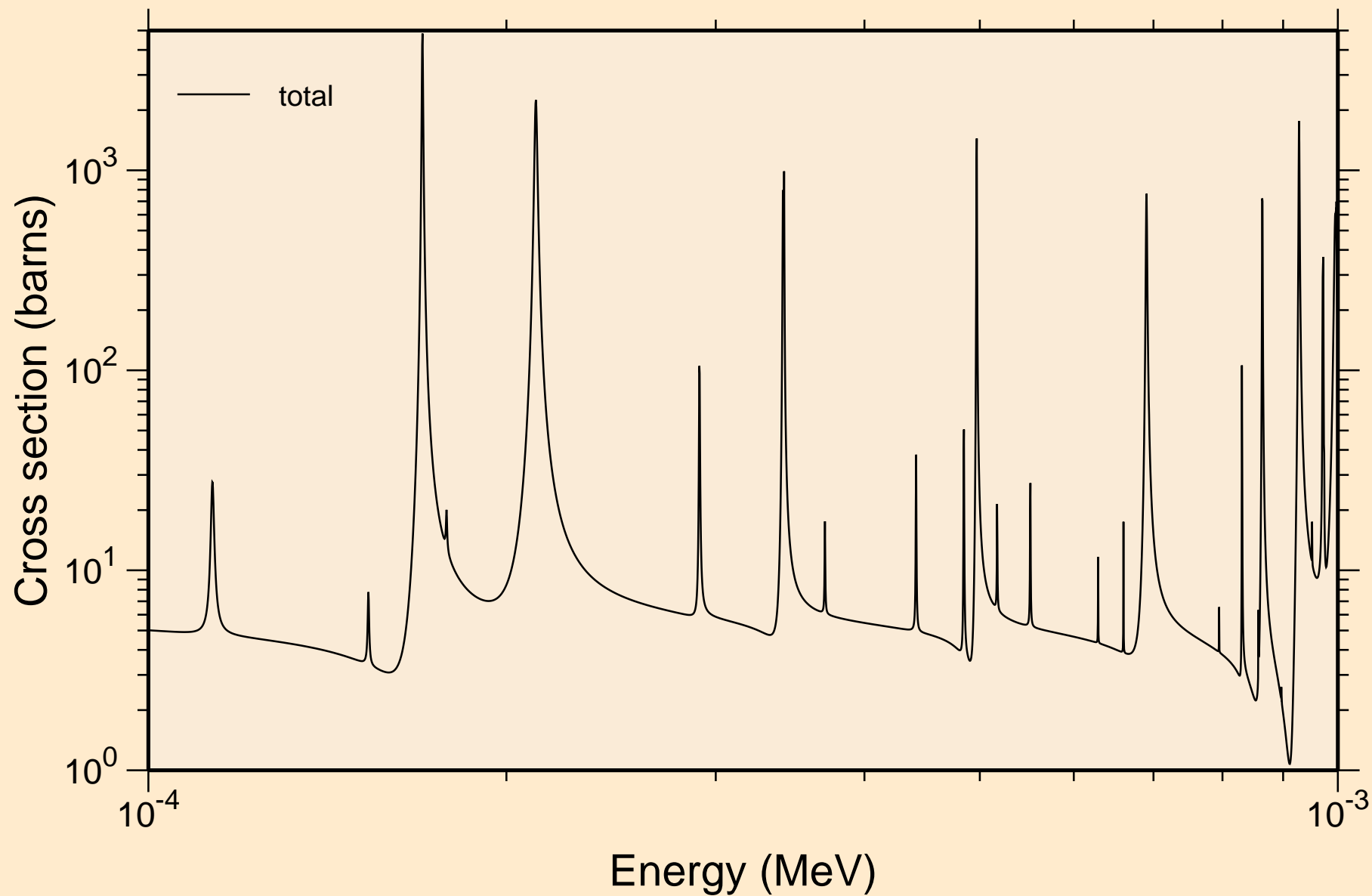


# SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

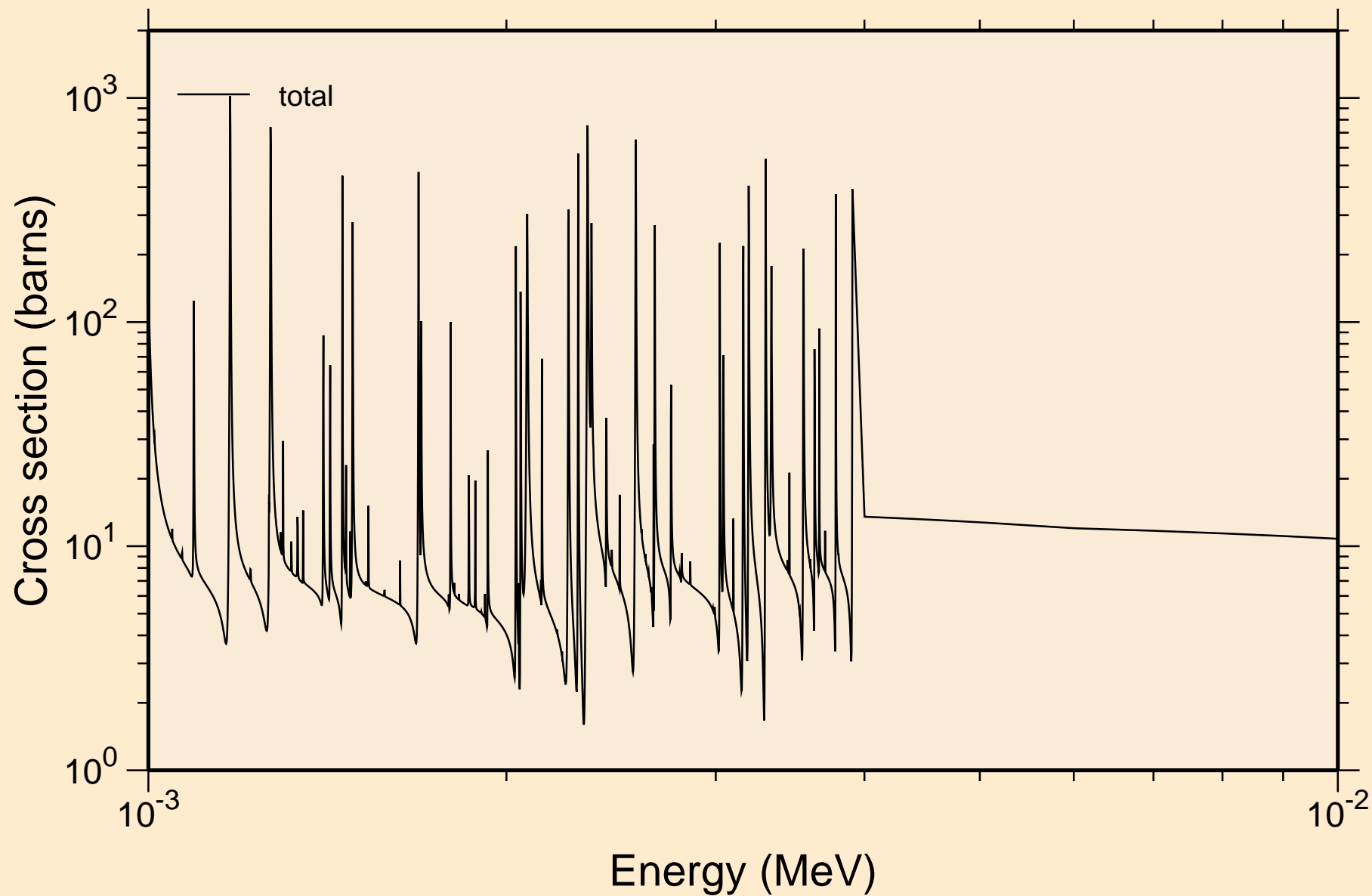
## Principal cross sections



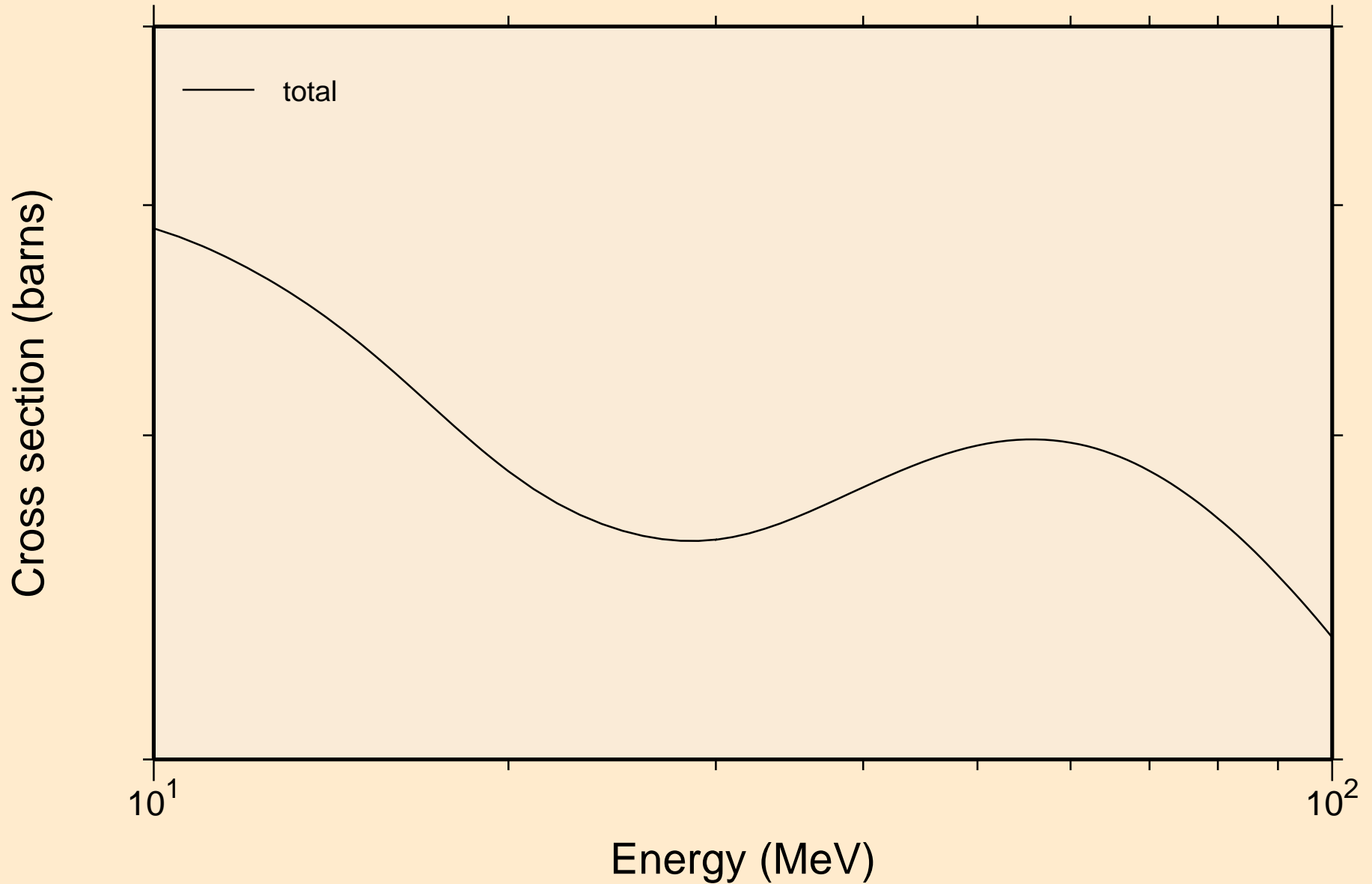
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



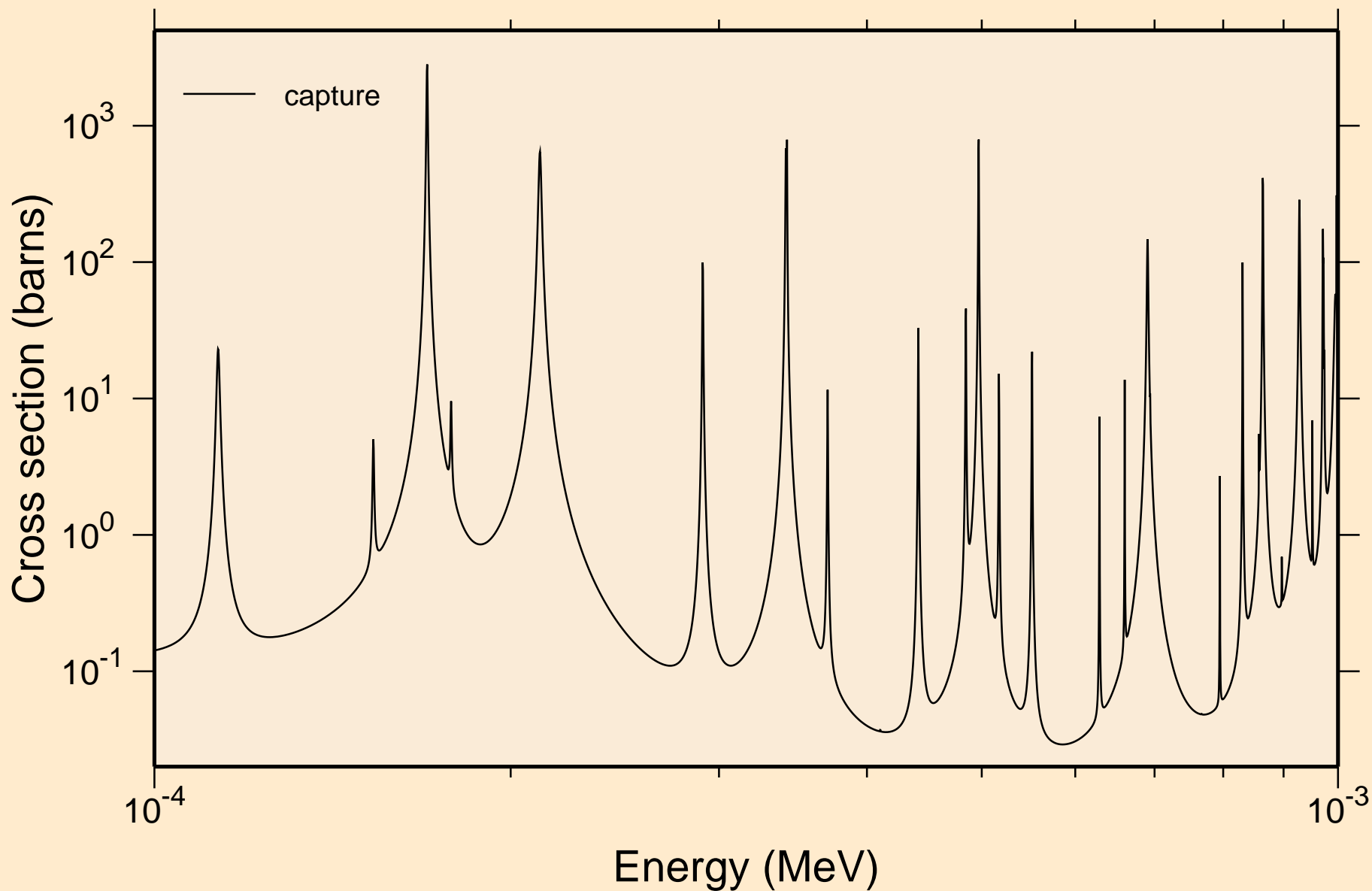
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



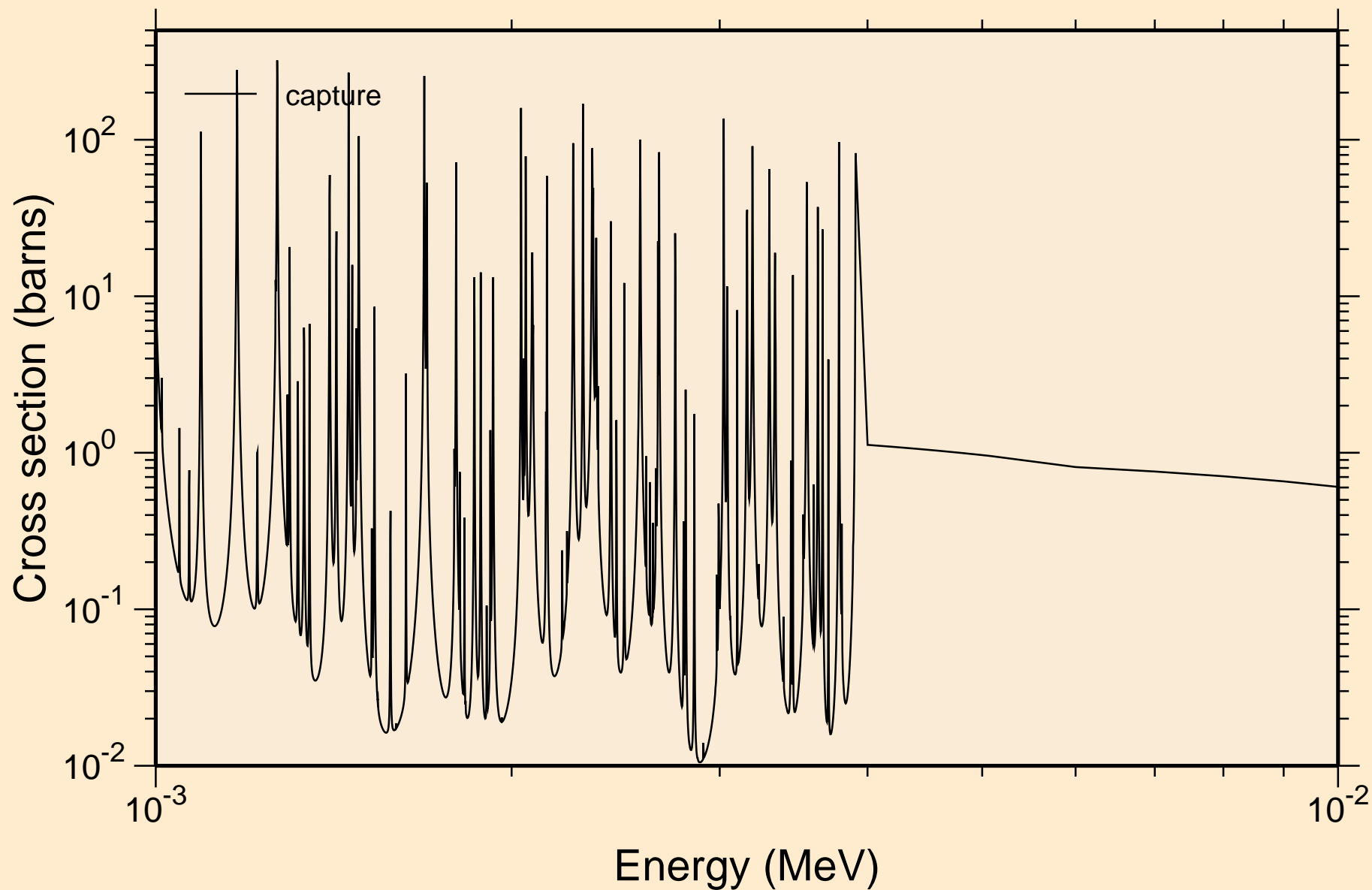
S $\bar{E}$ 077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



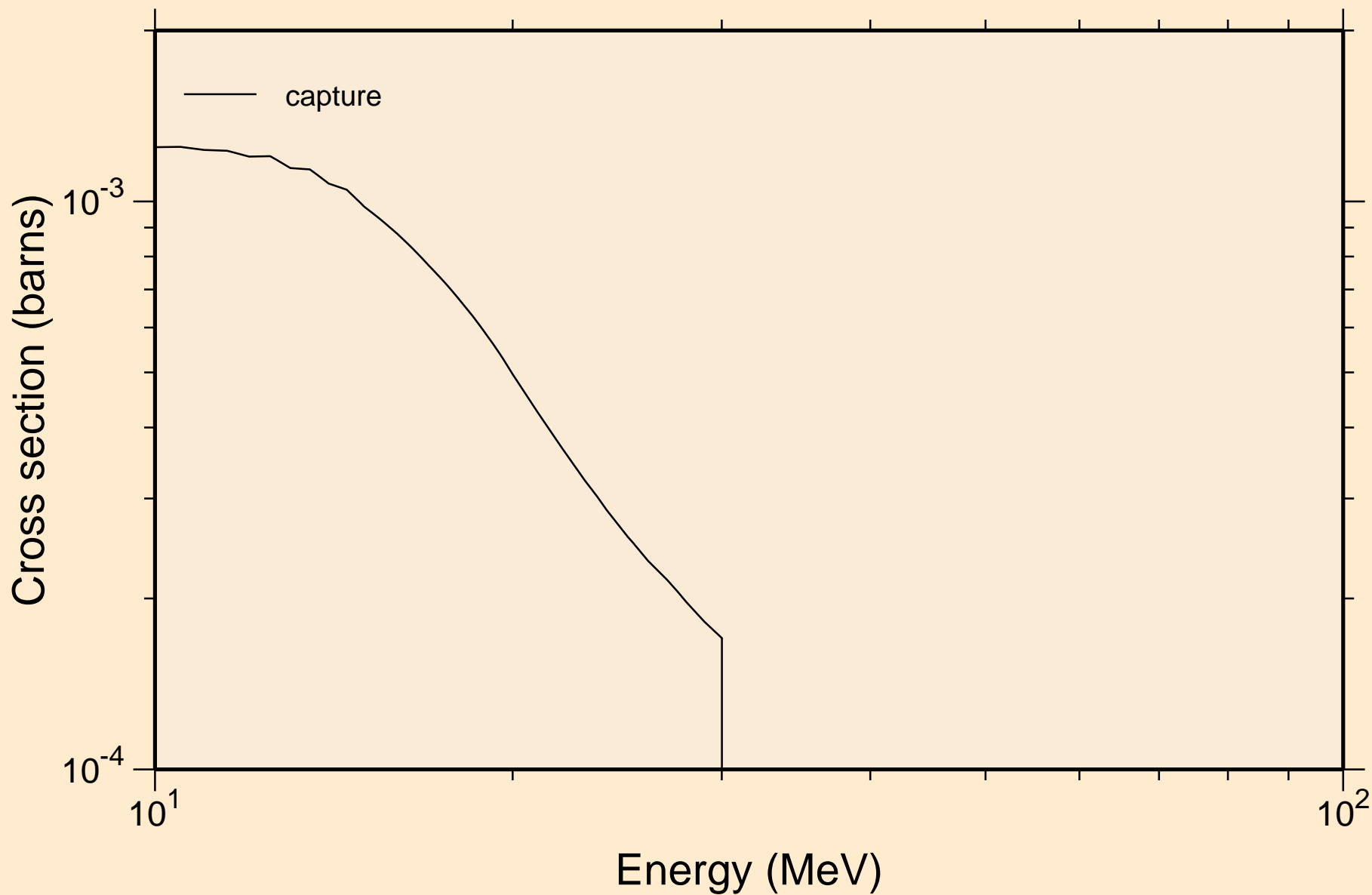
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

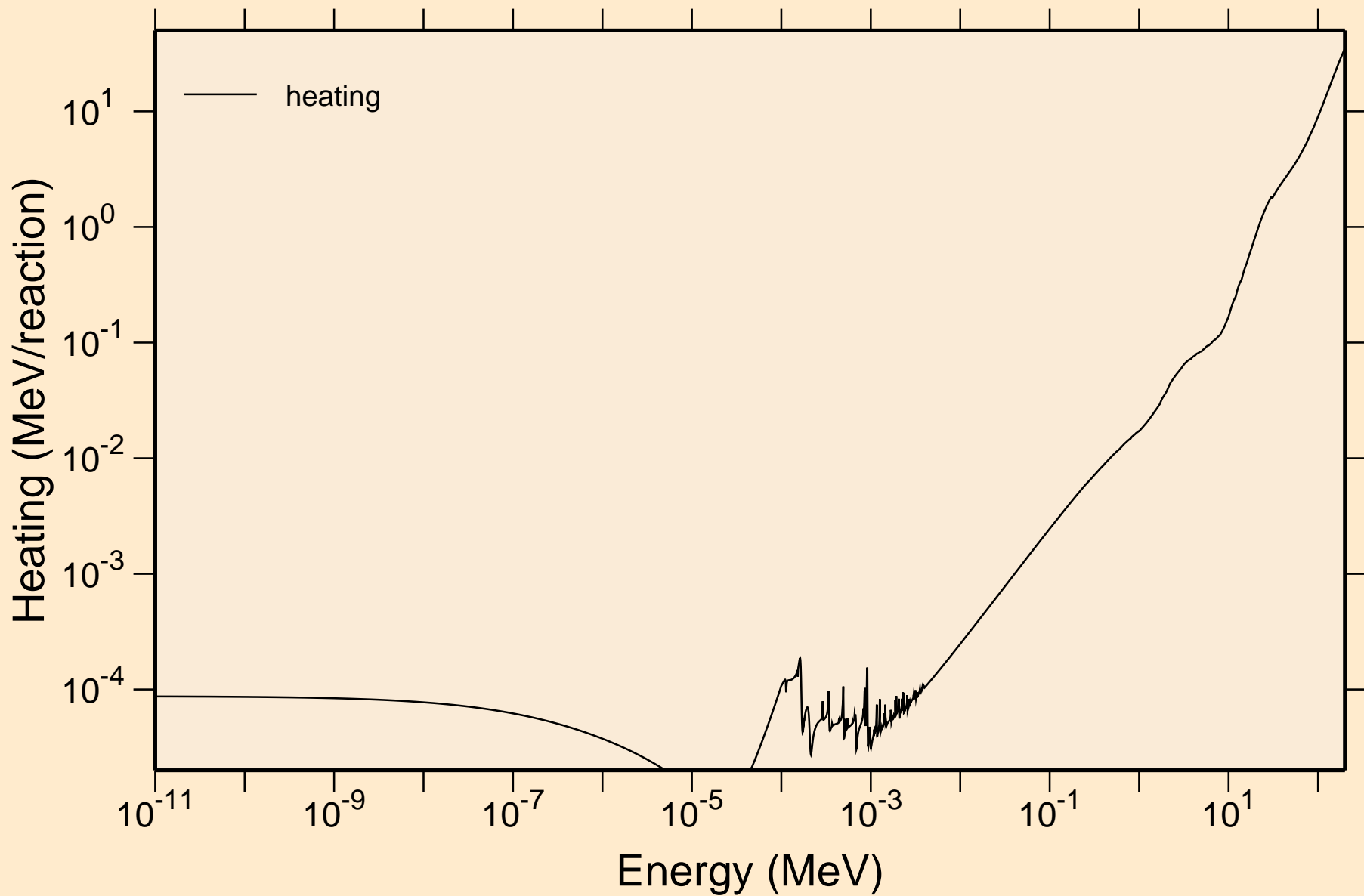


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



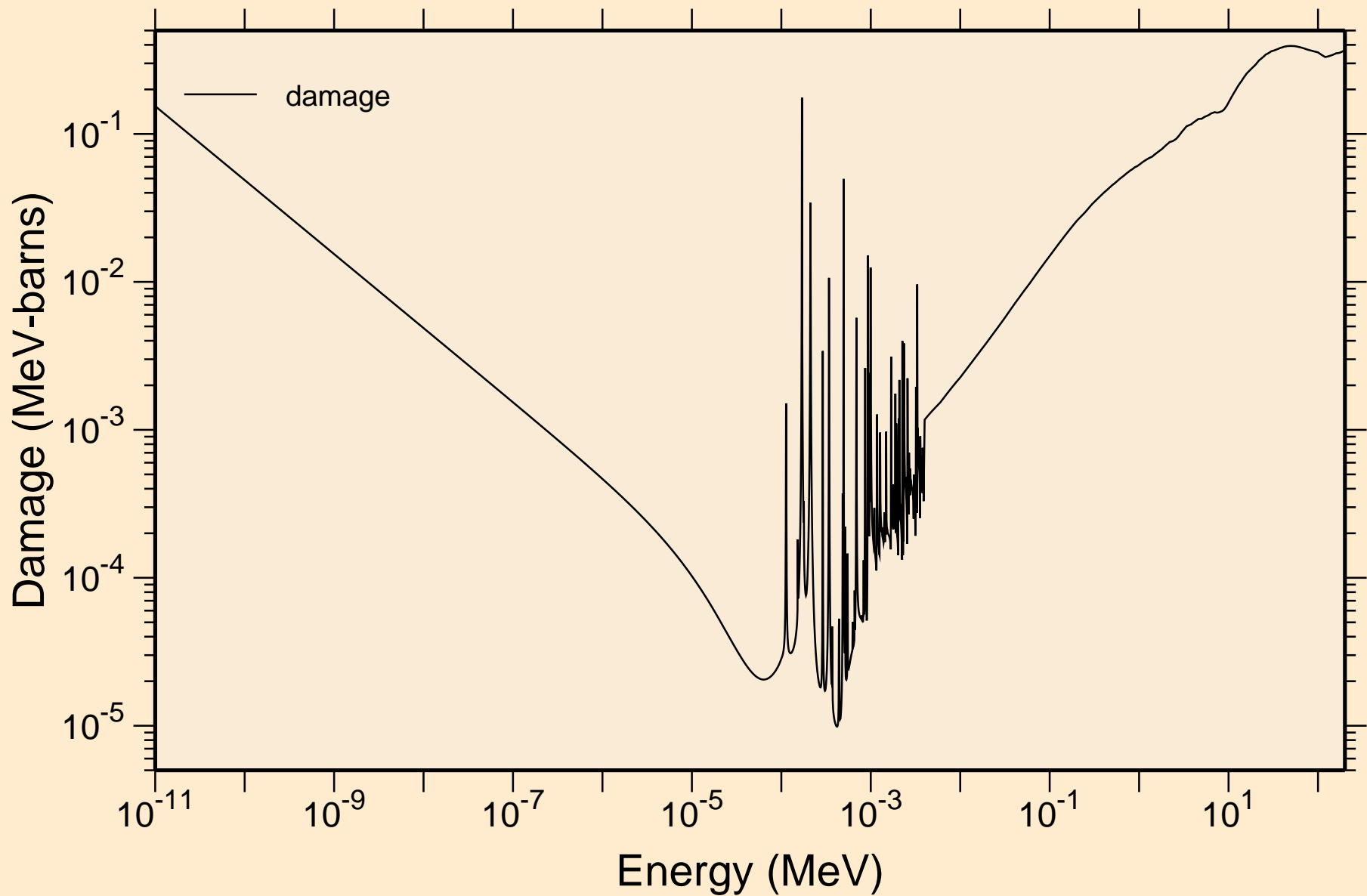
# SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



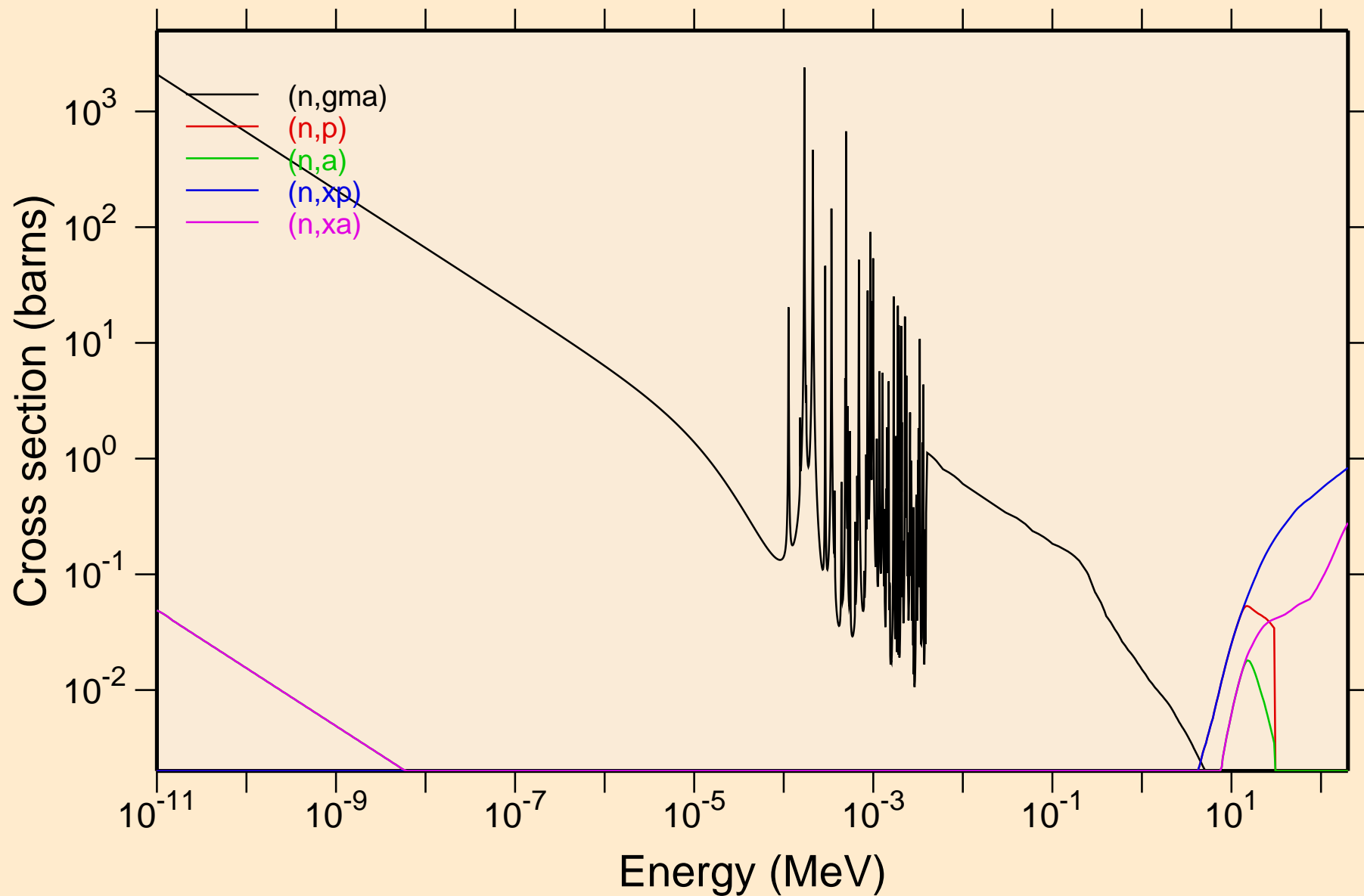


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



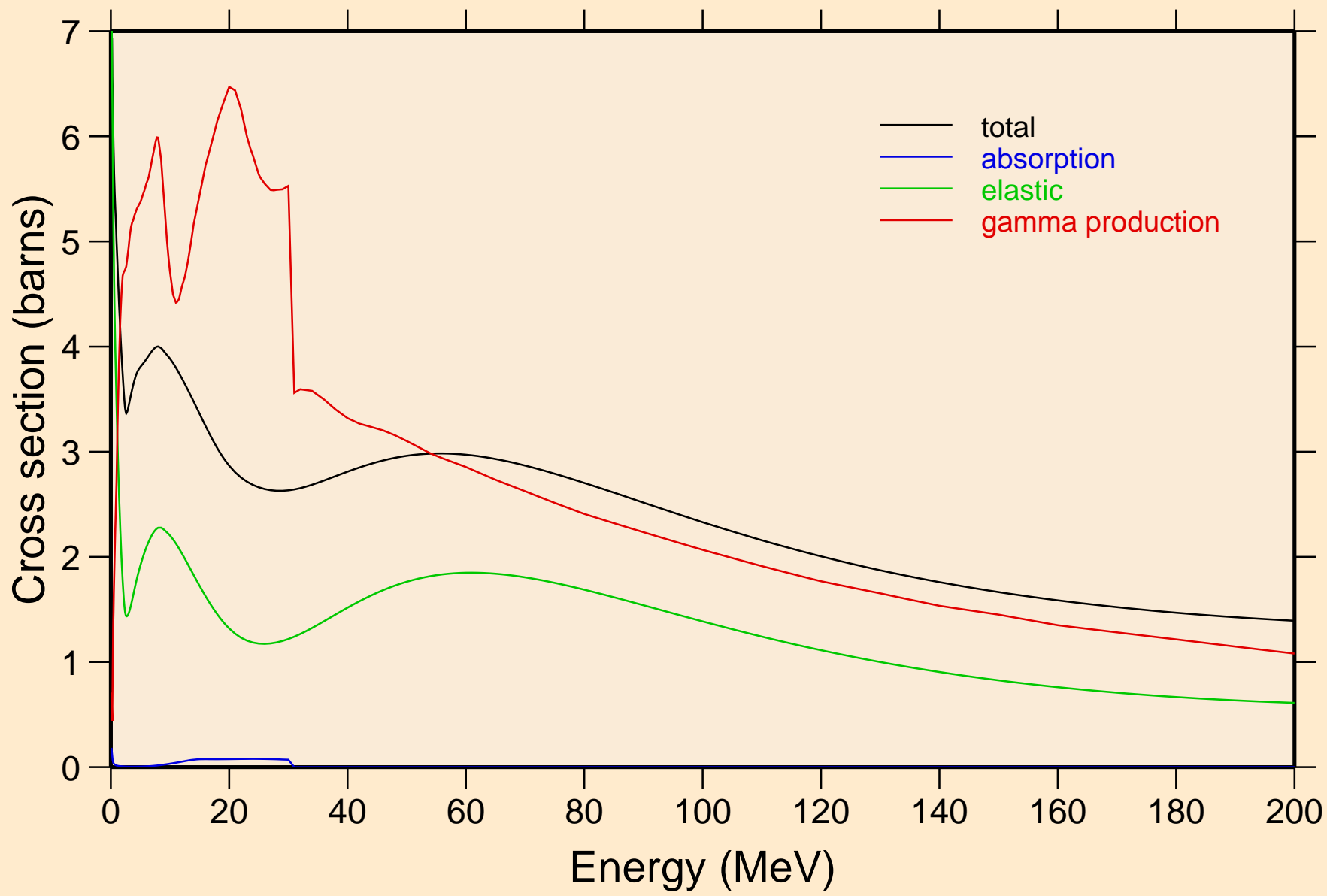
# SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



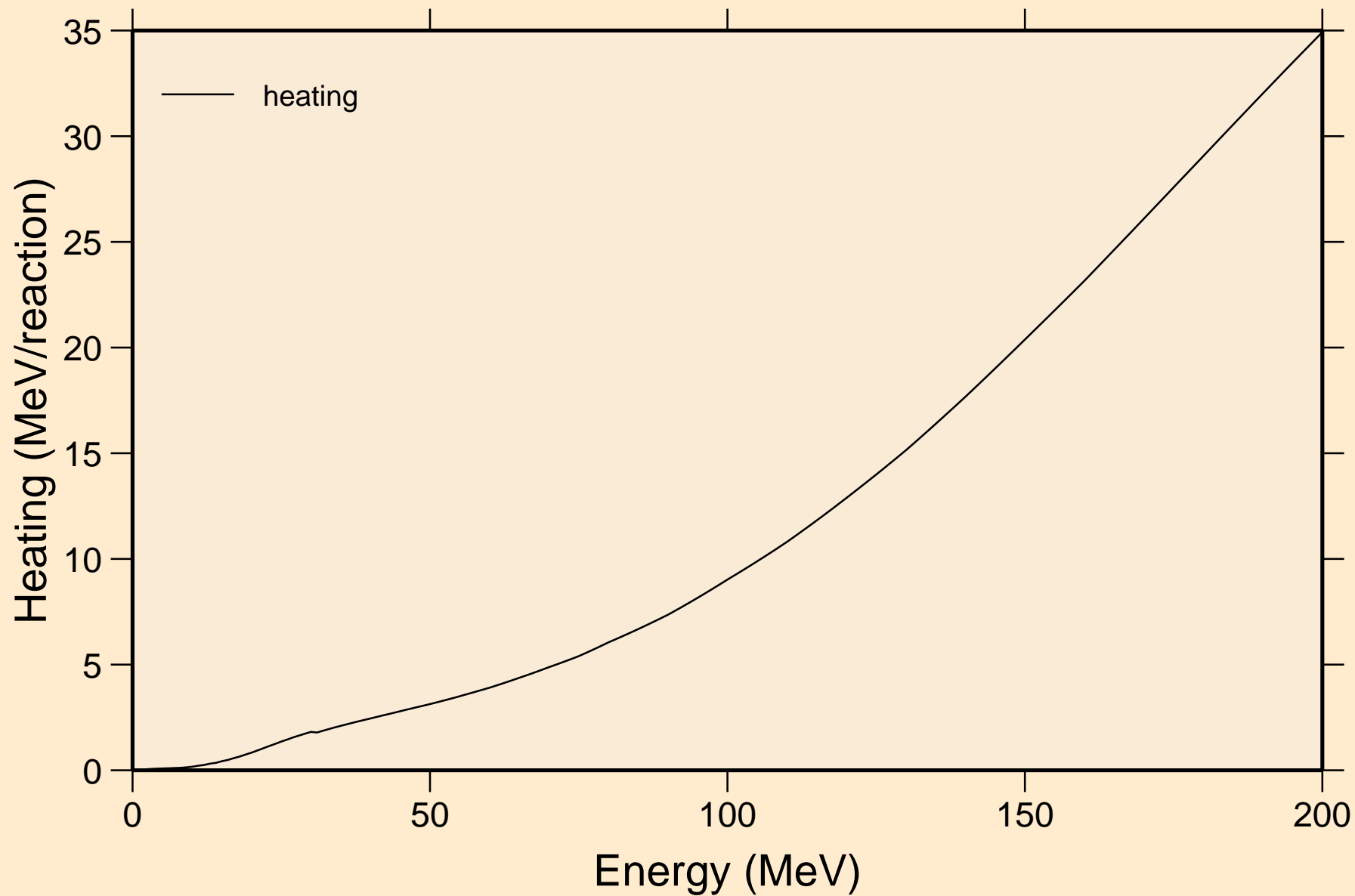
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## Principal cross sections

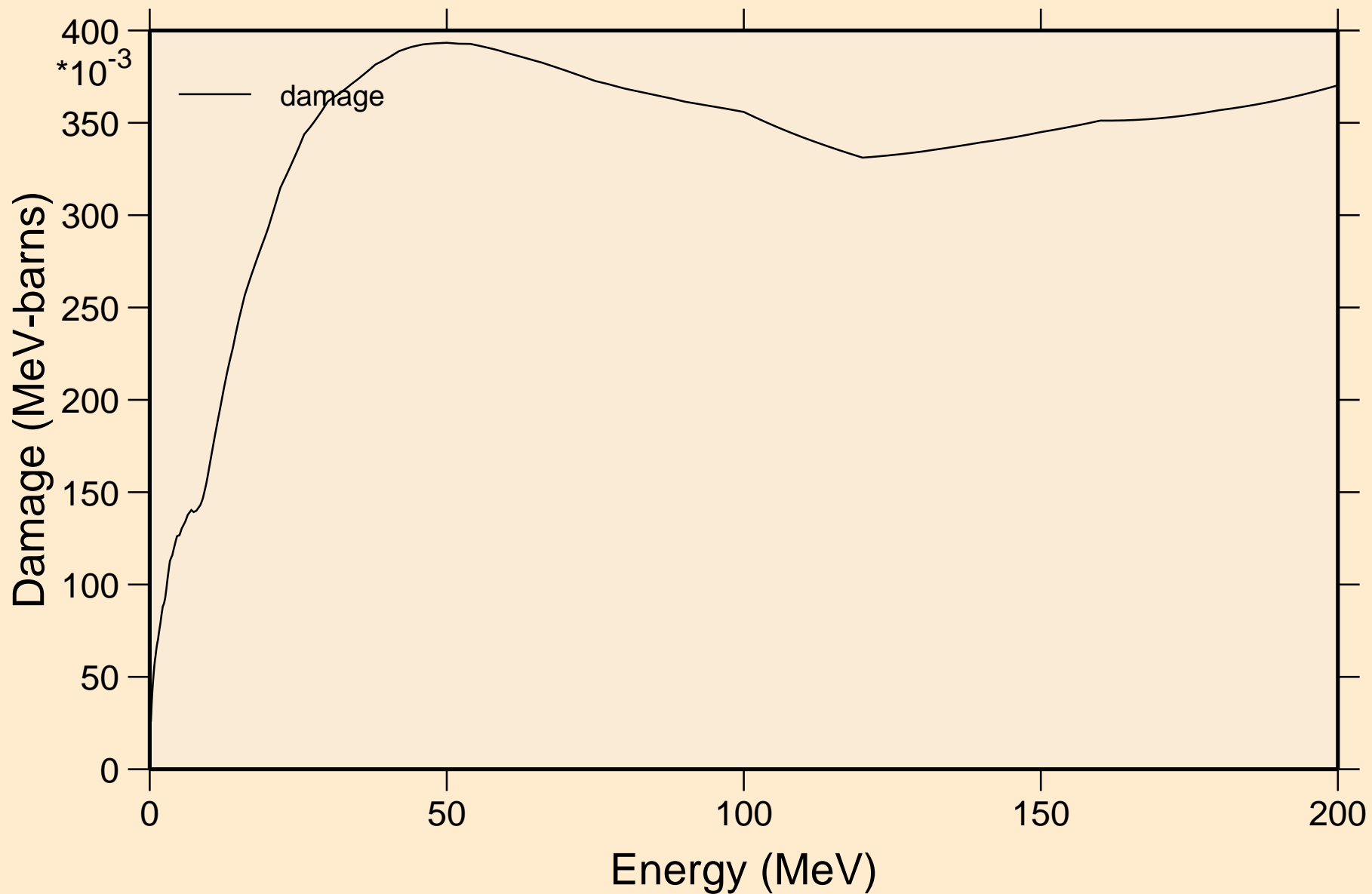


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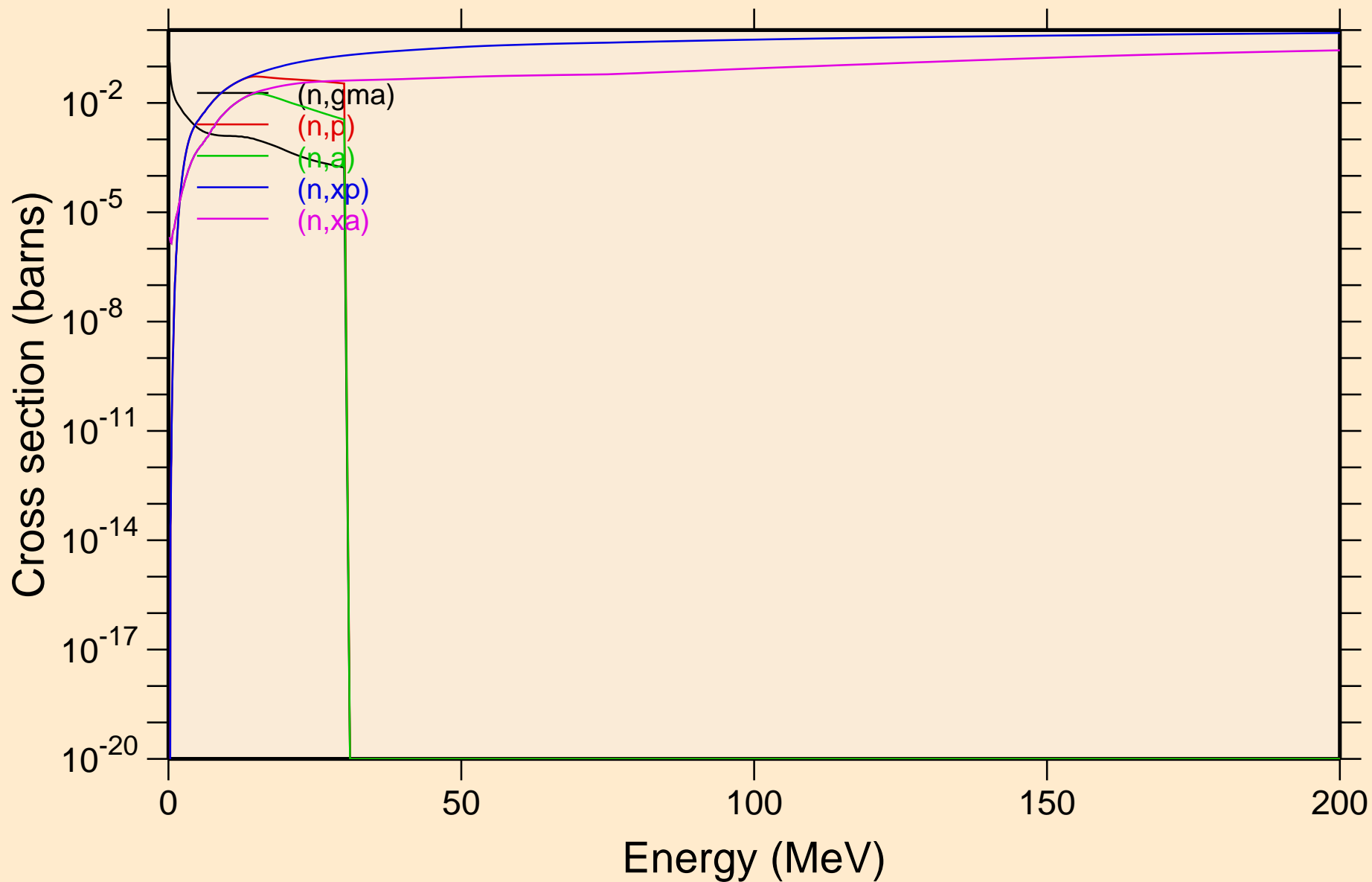
## Heating



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

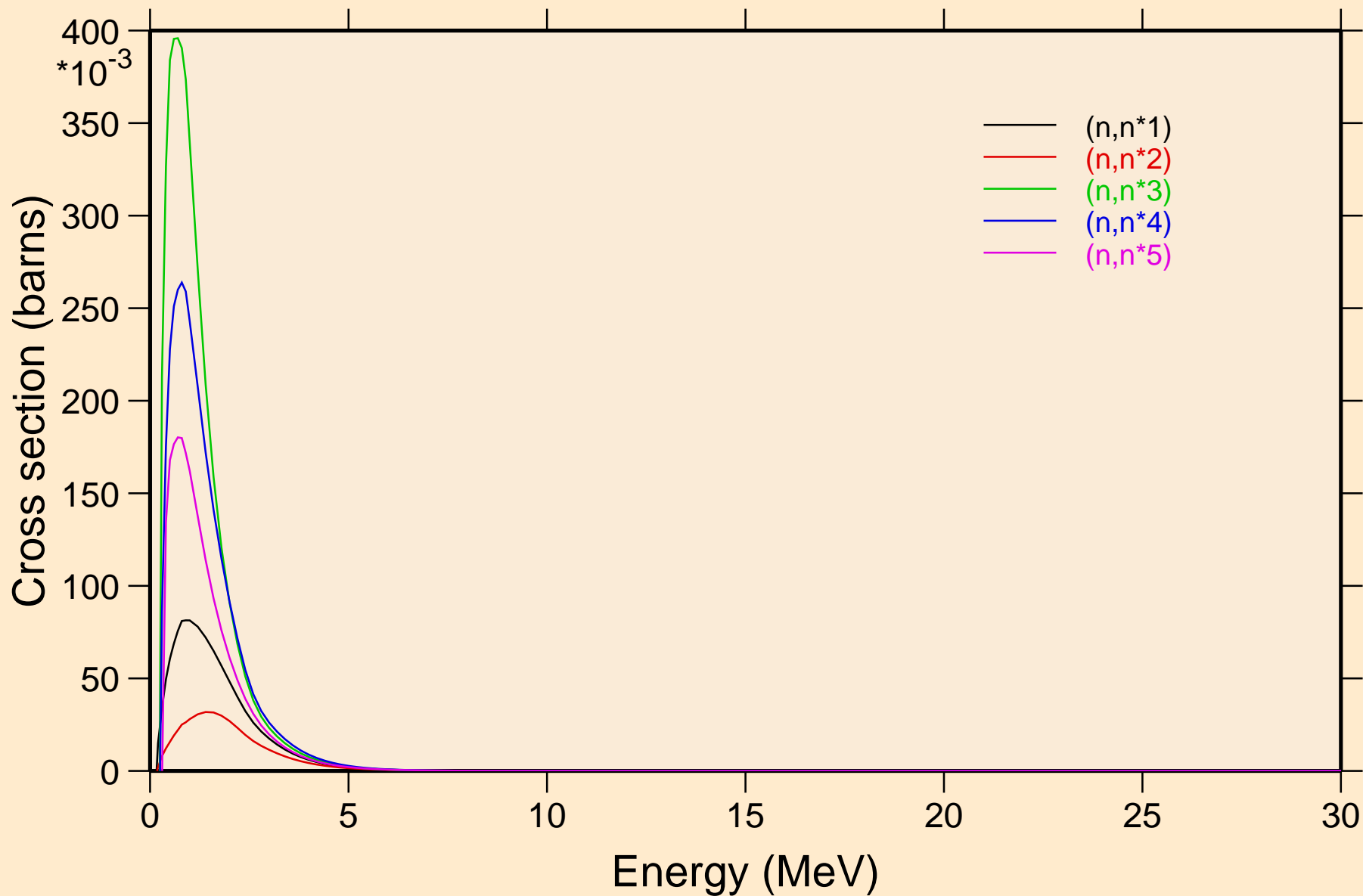


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



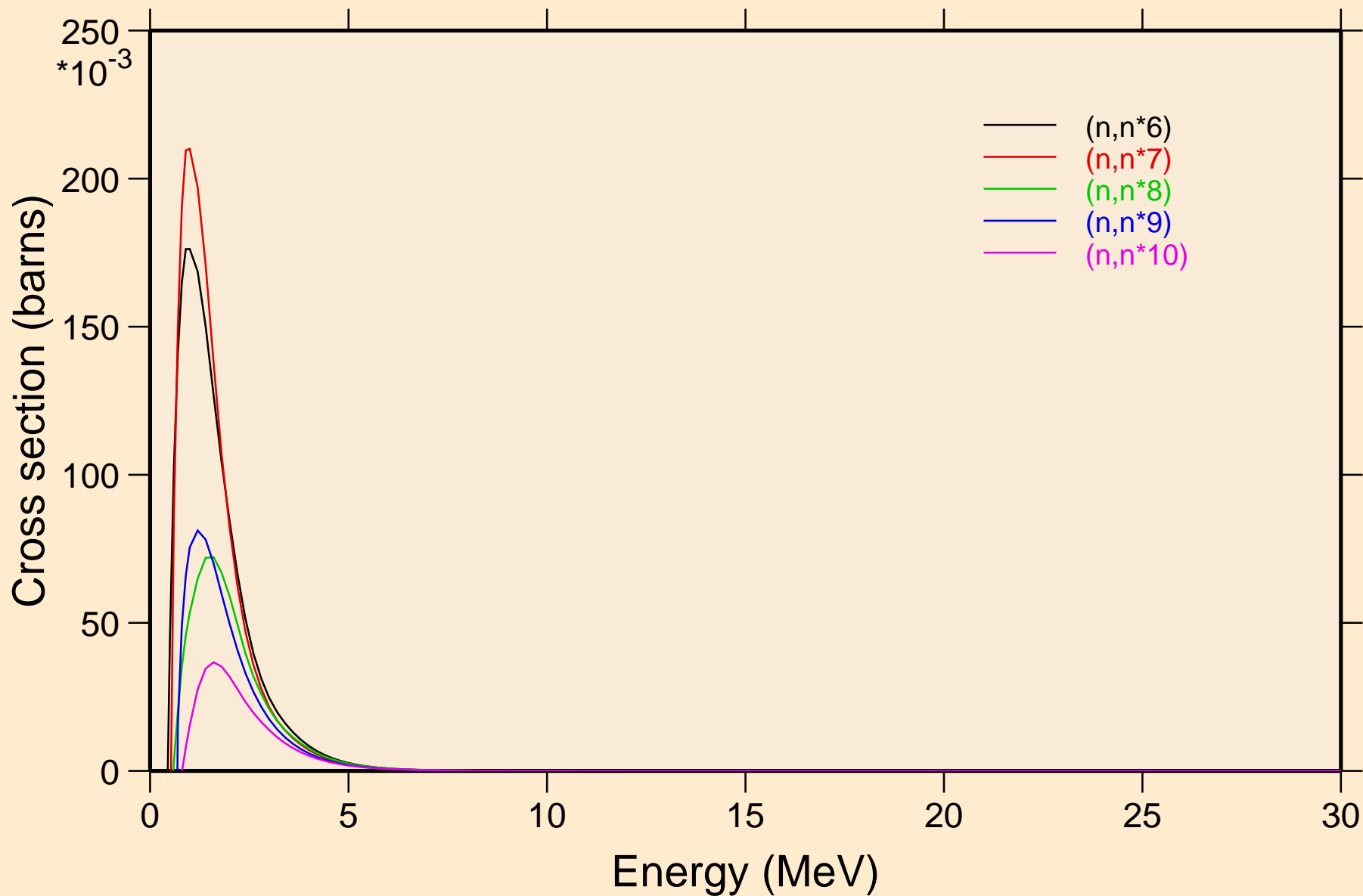
# SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



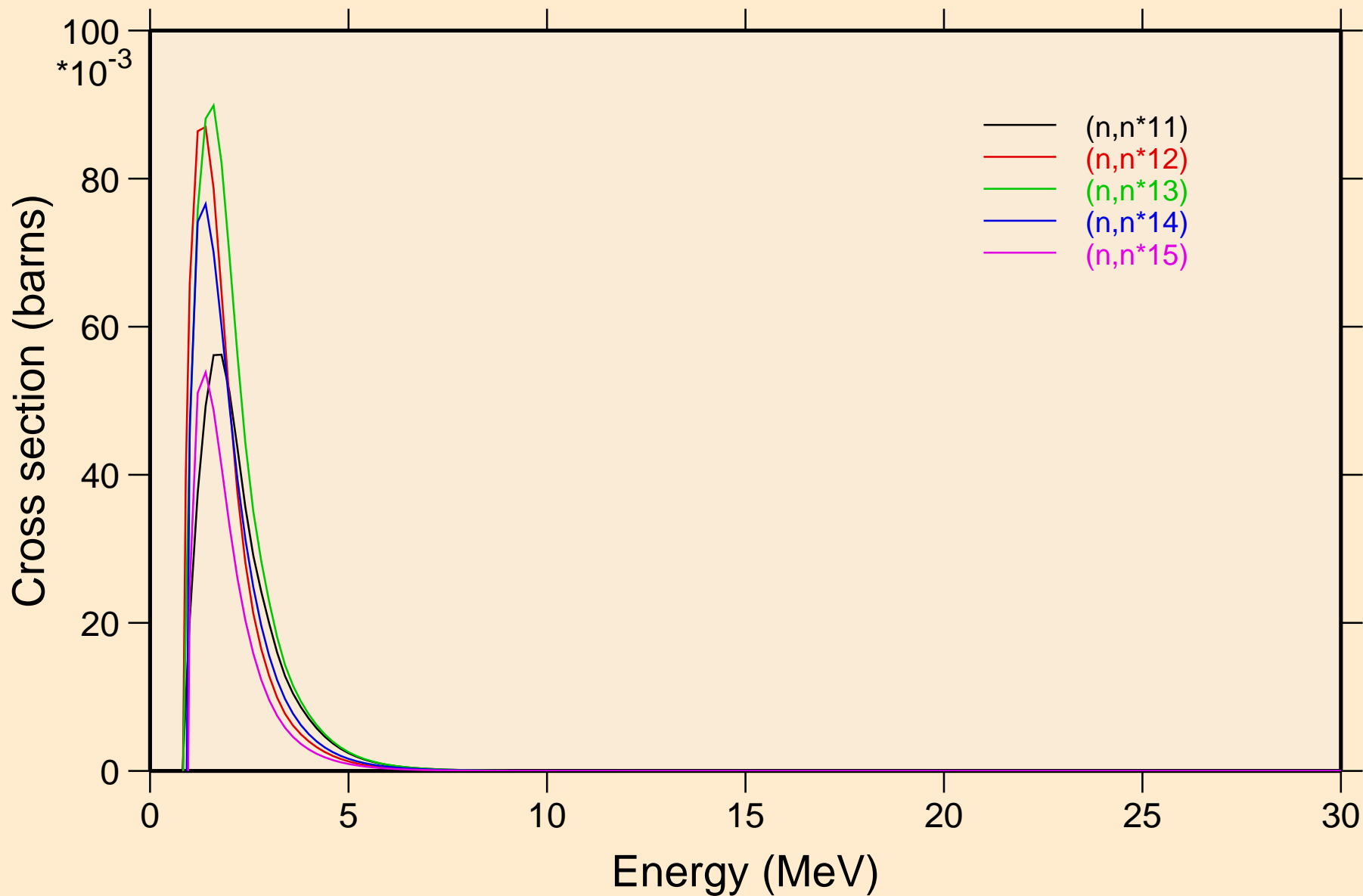
# SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



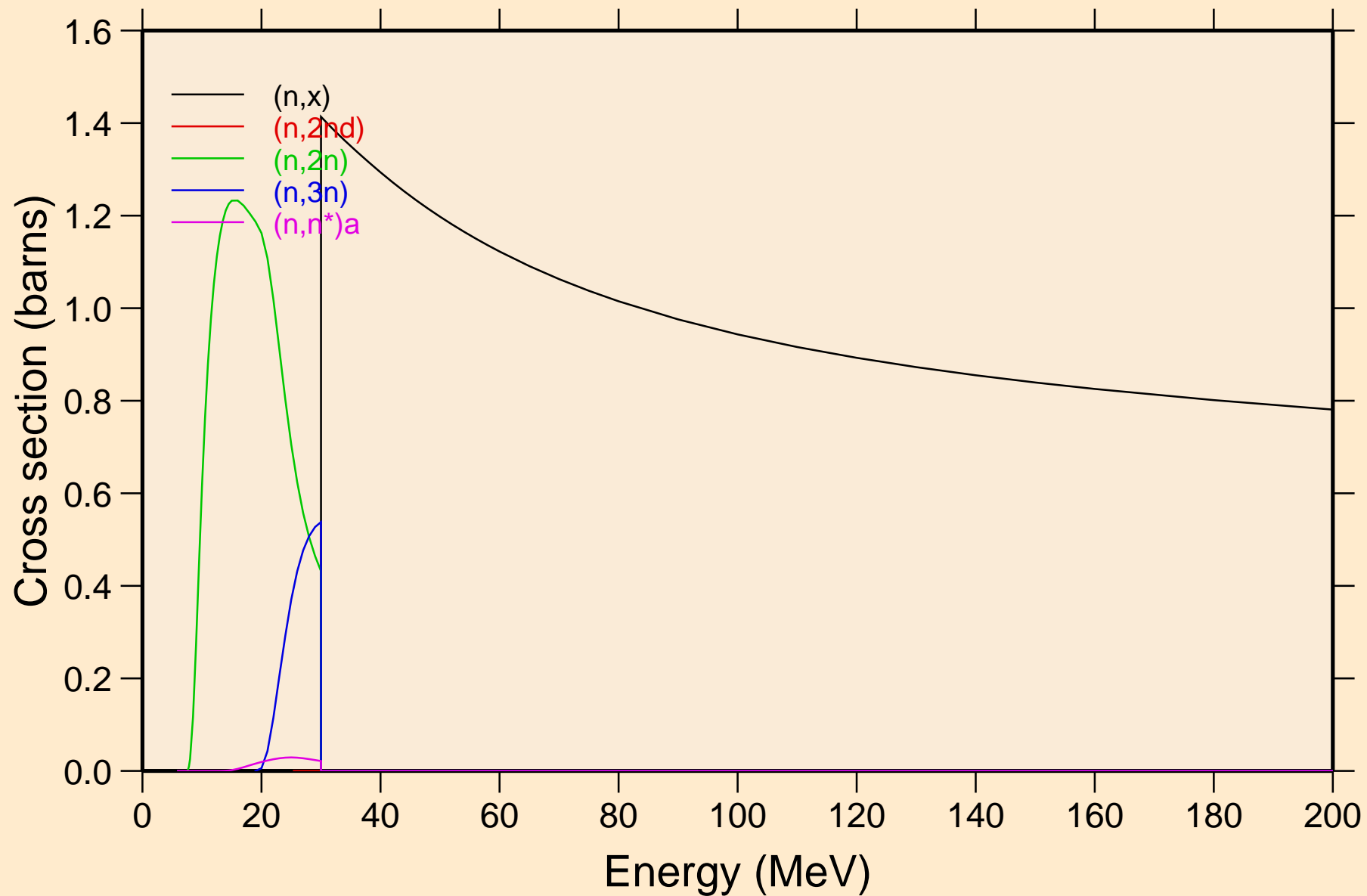


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



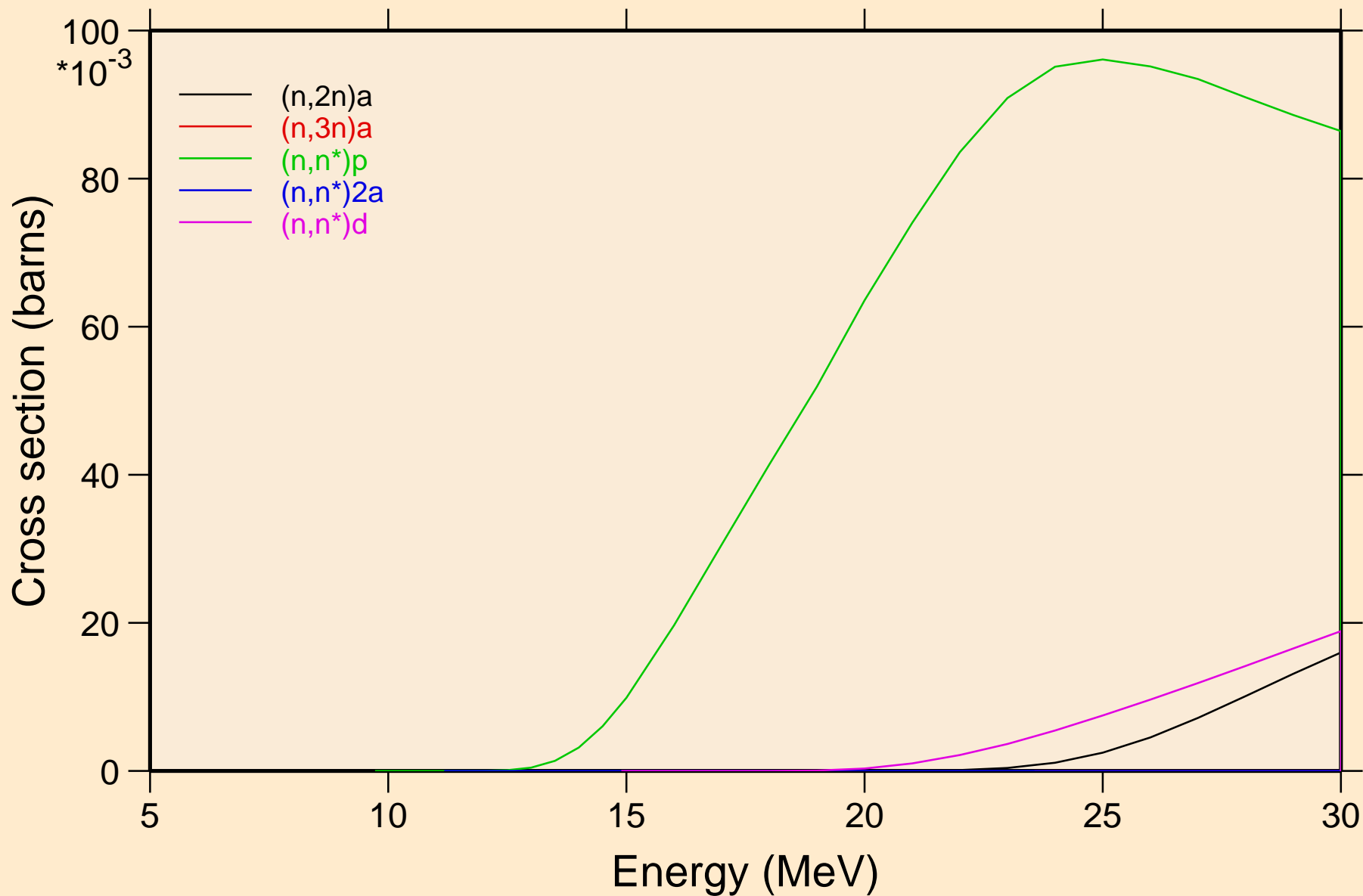
# SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

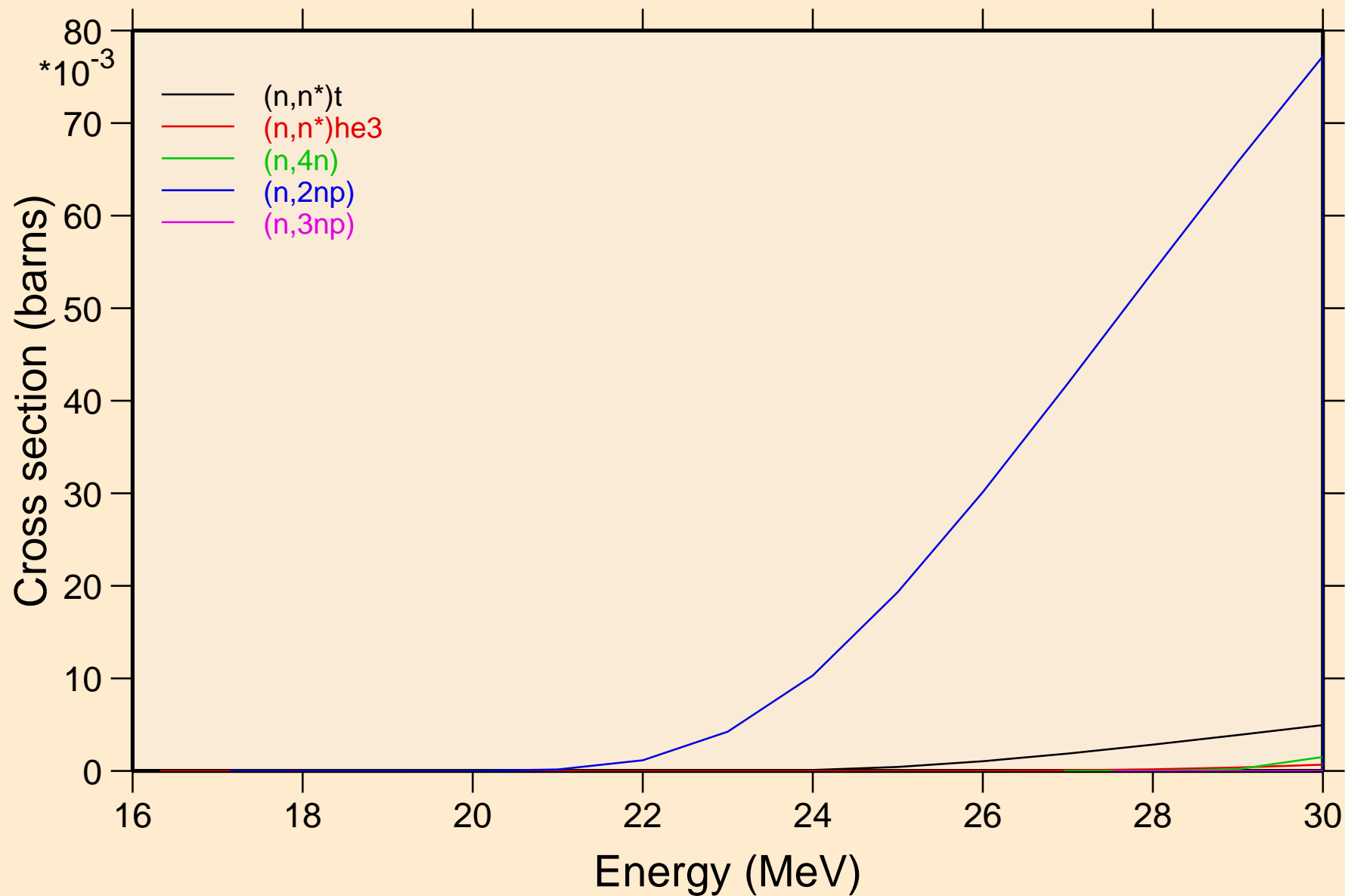


# SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

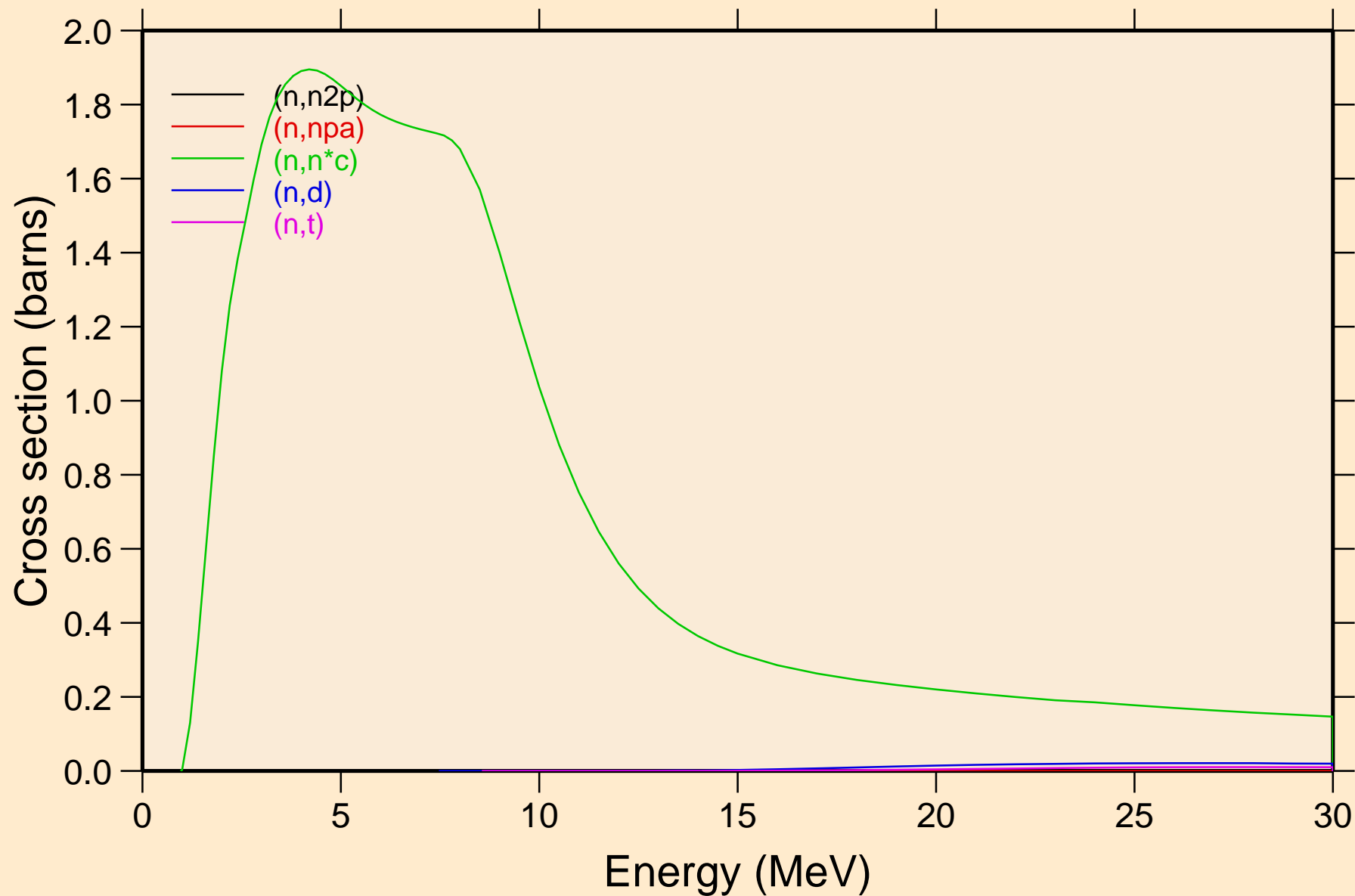


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



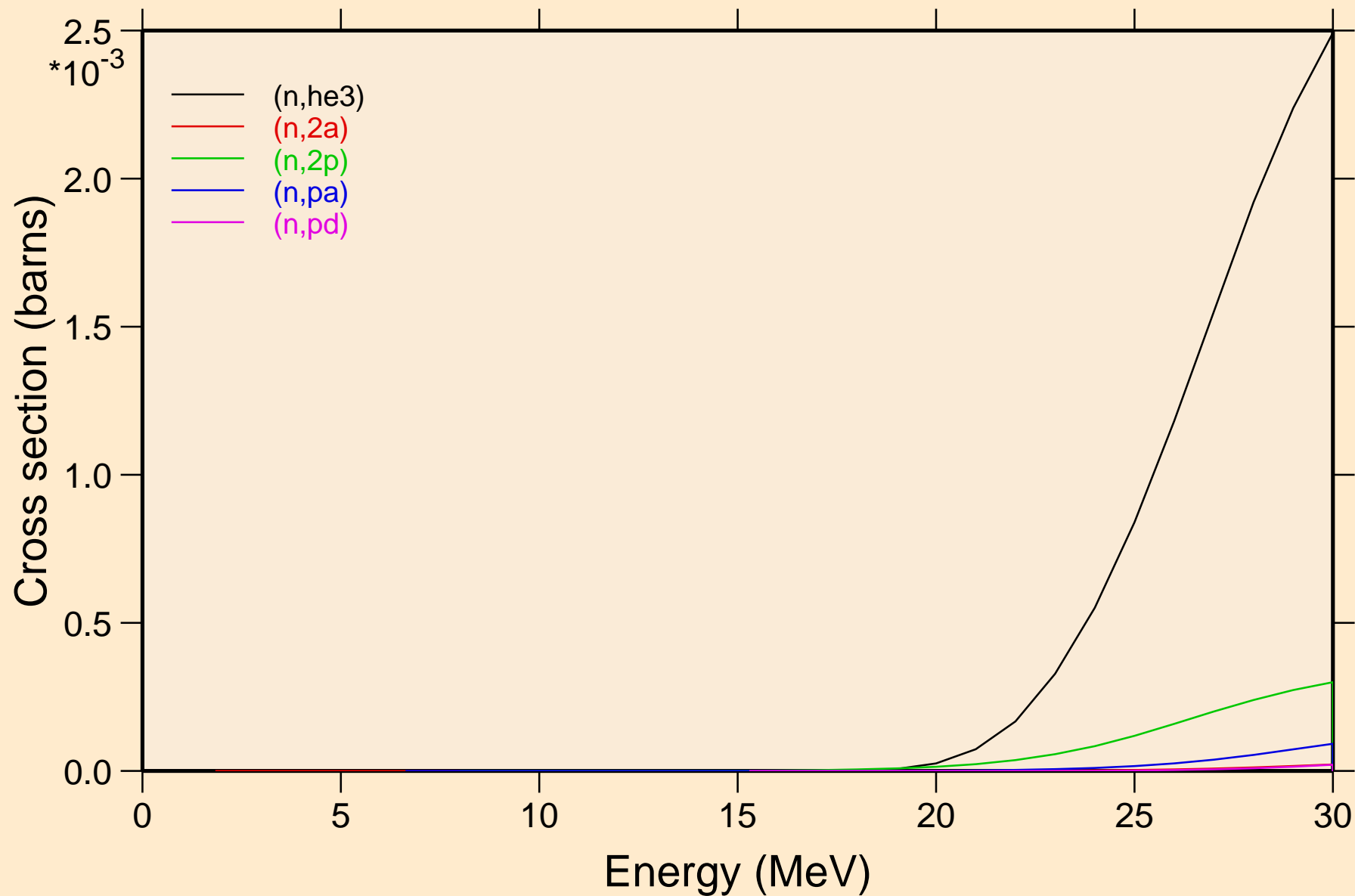
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## Threshold reactions

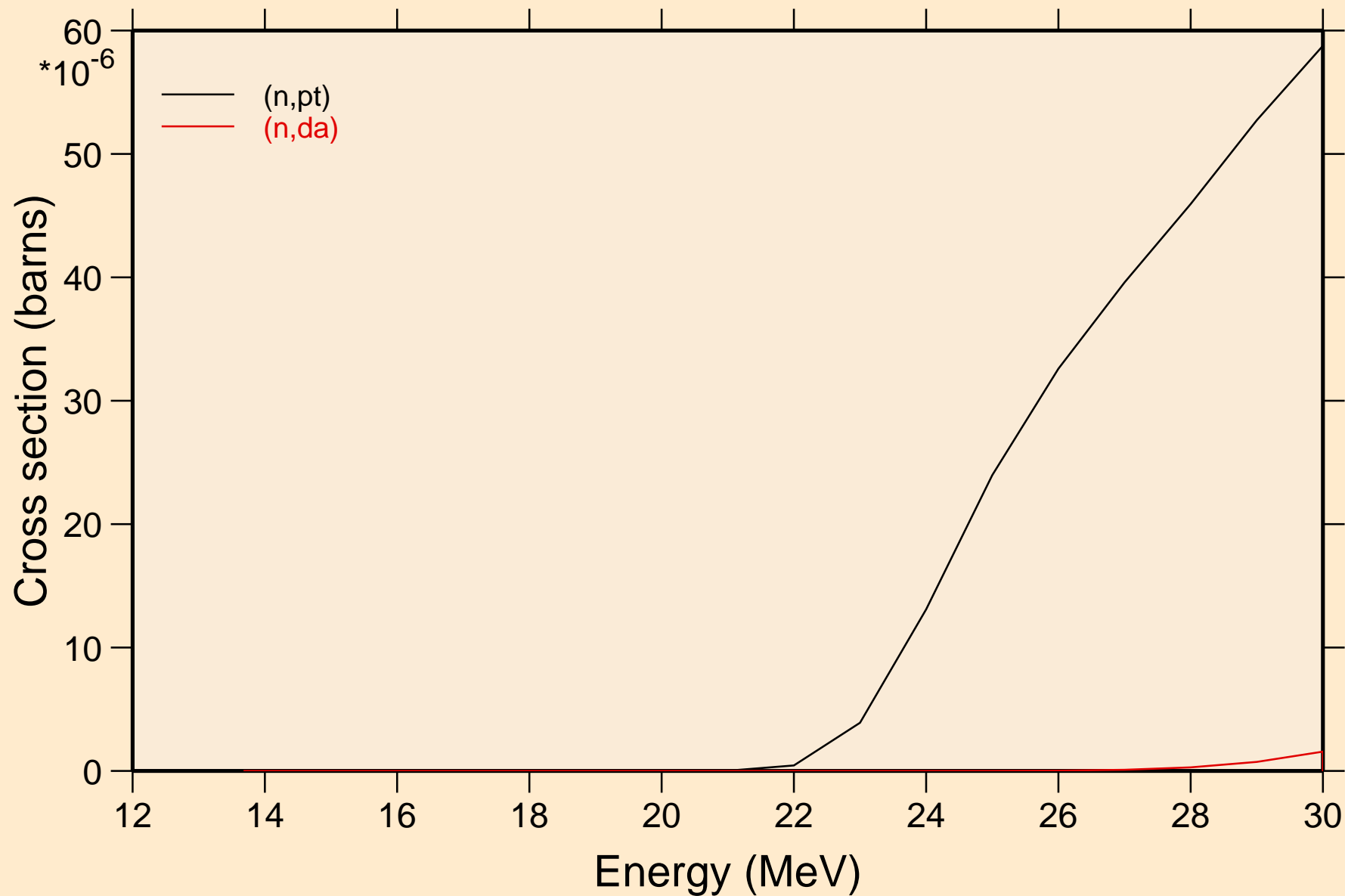


# SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

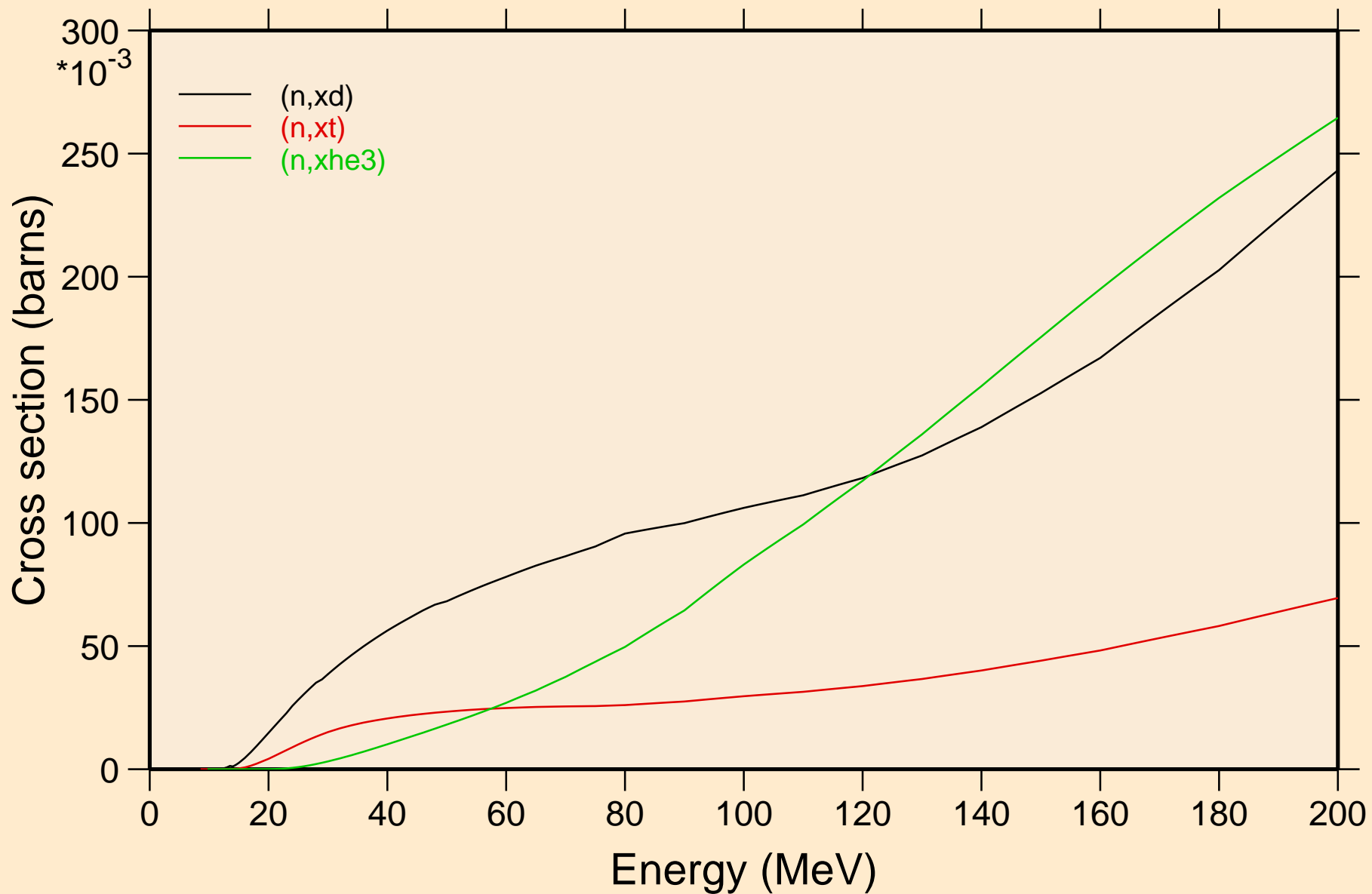


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



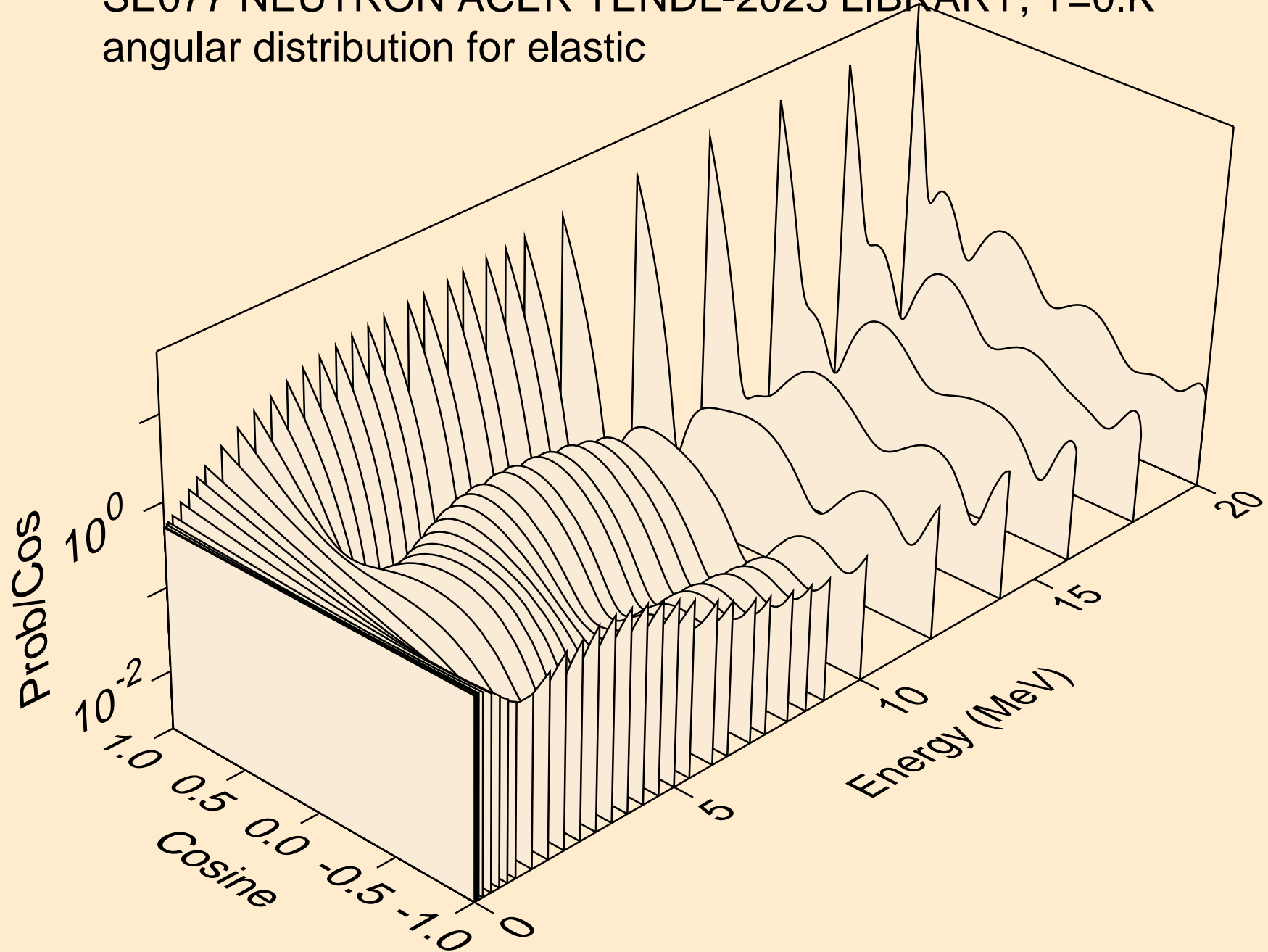
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## Threshold reactions

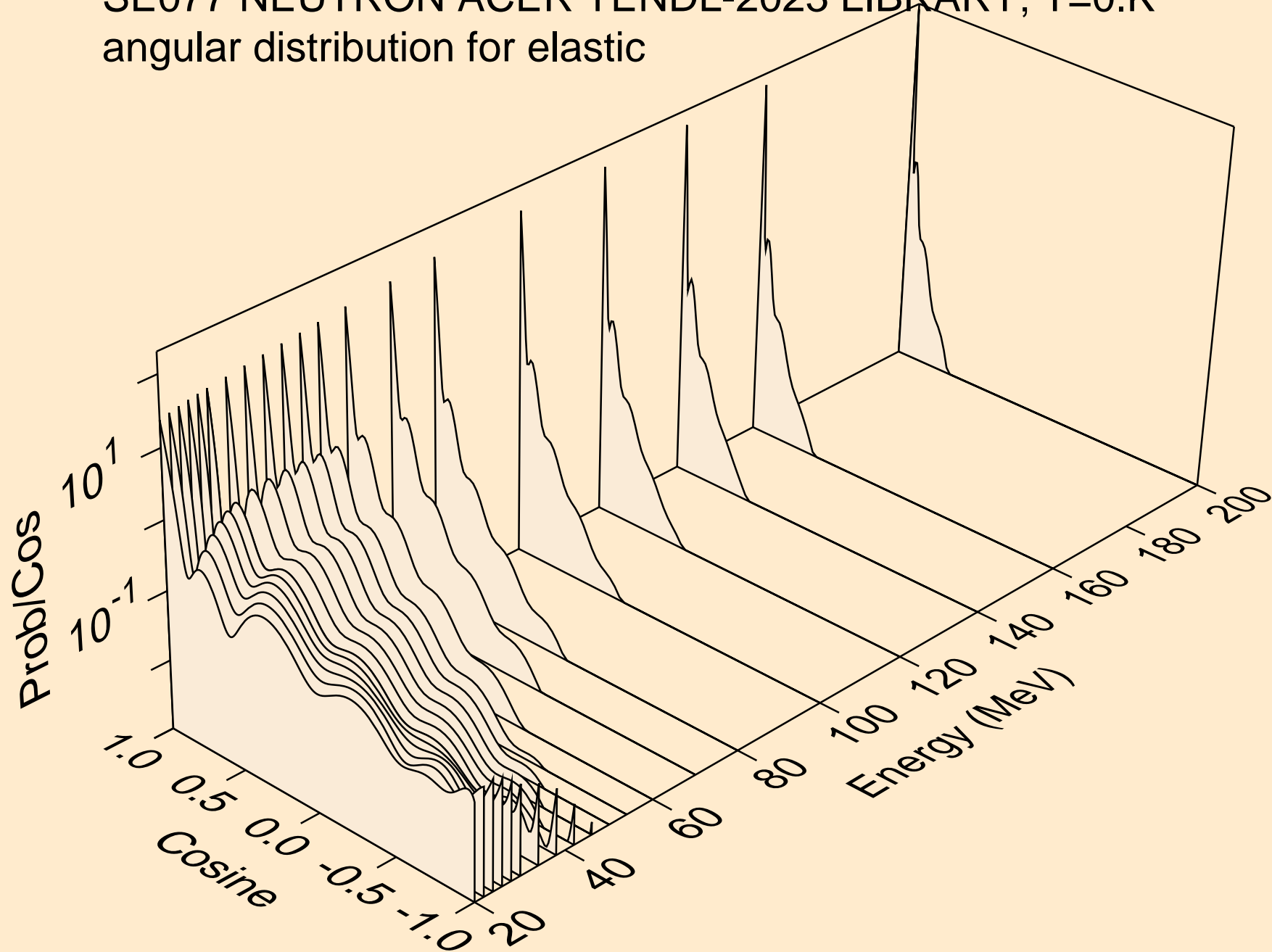




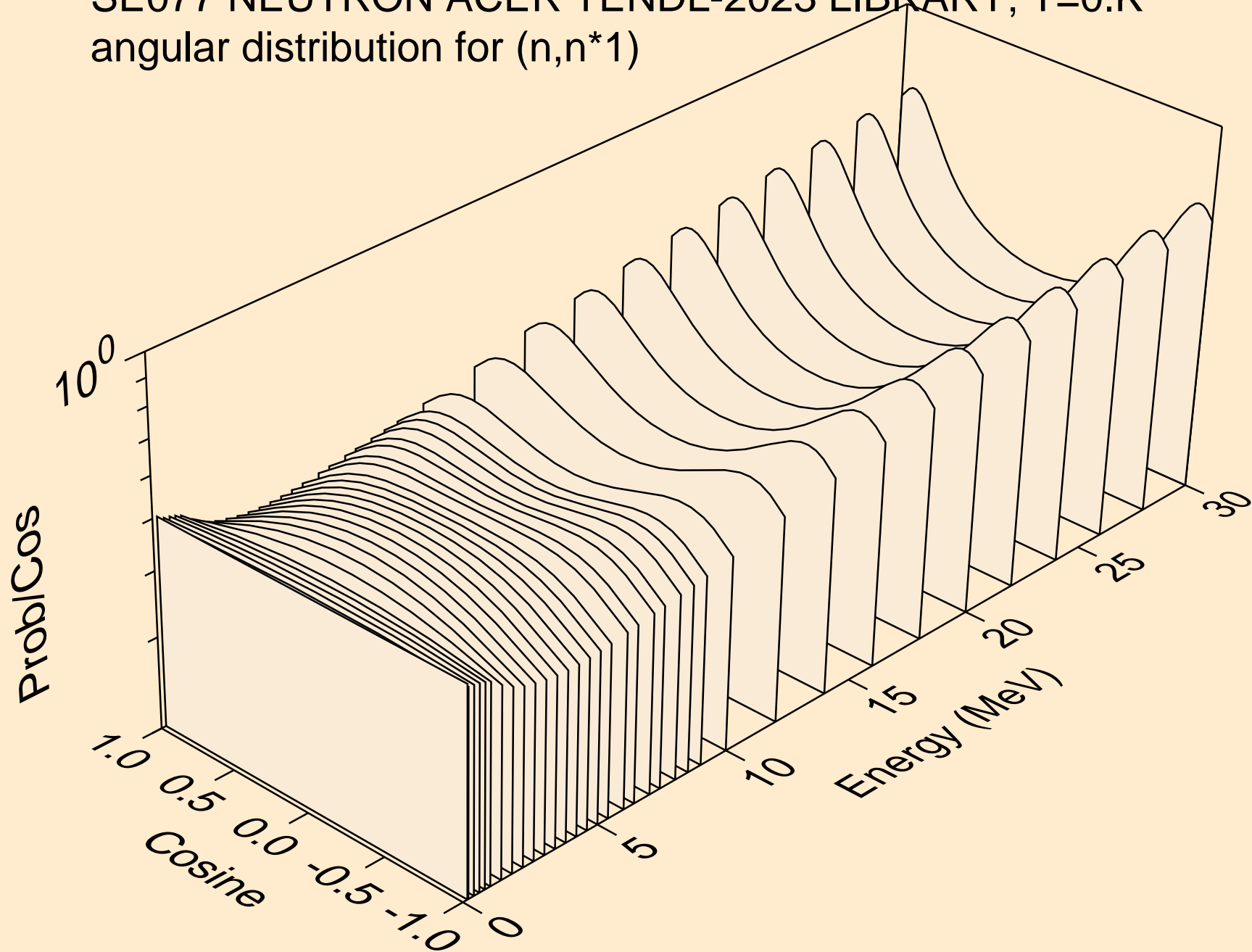
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



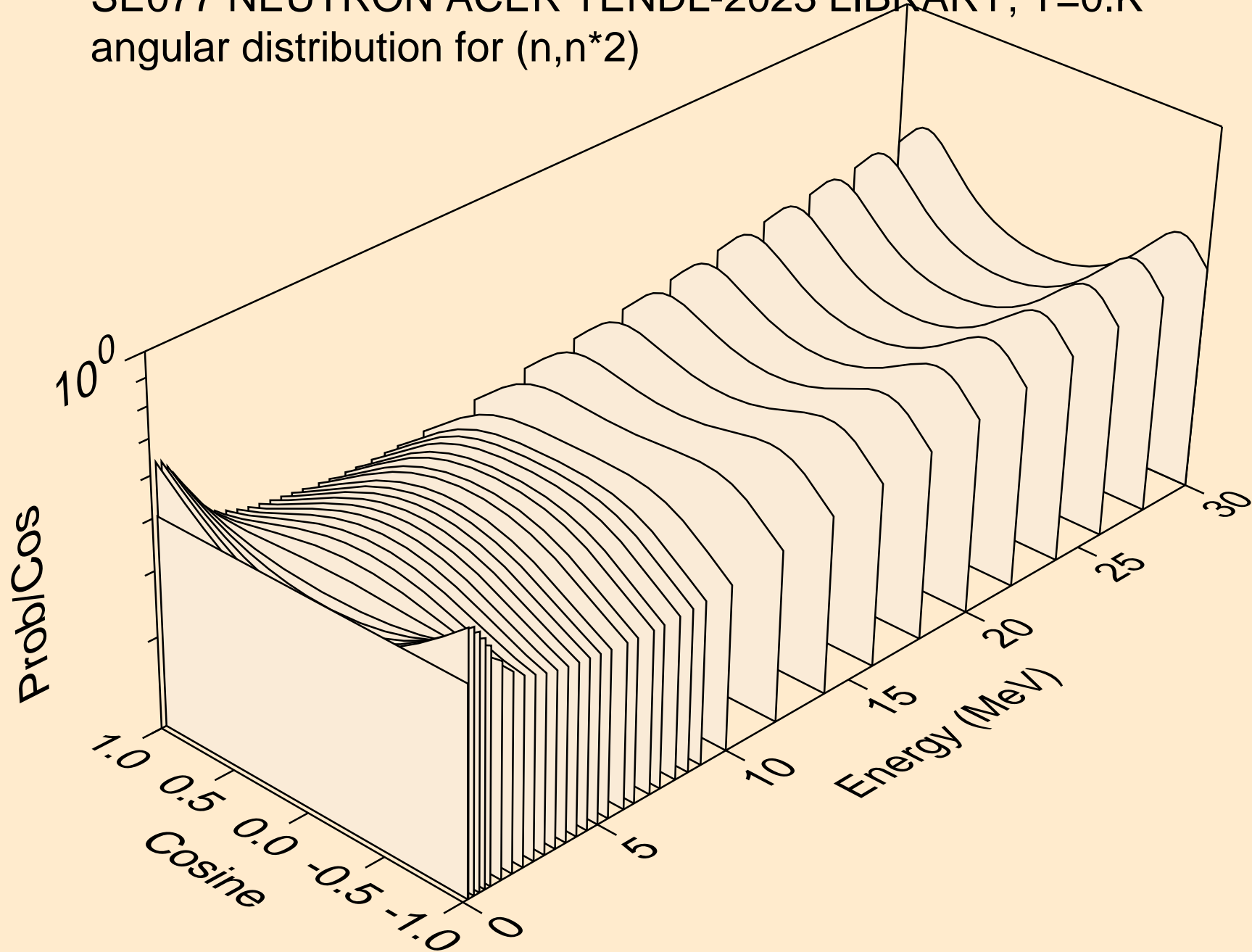
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



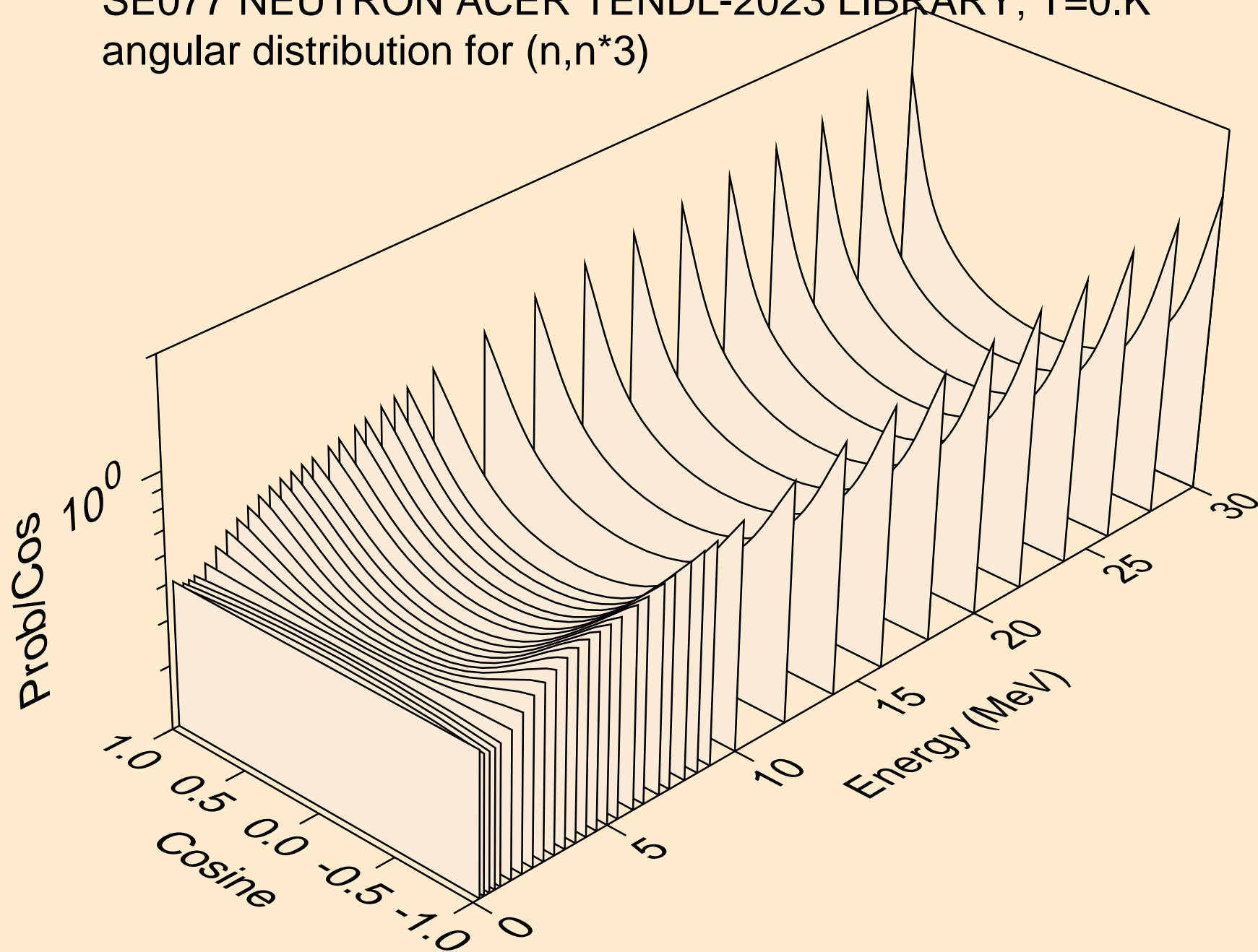
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



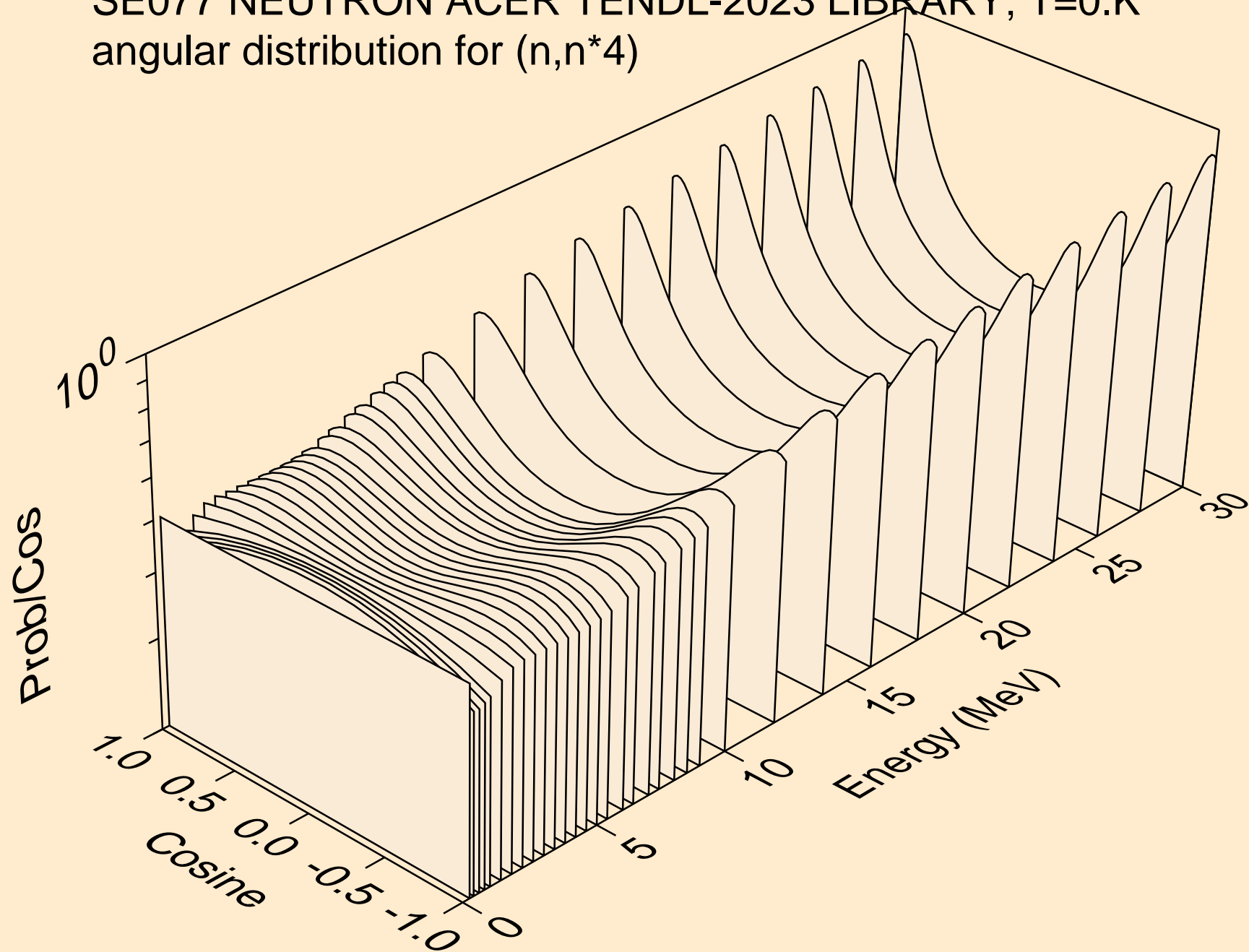
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angular distribution for (n,n\*2)



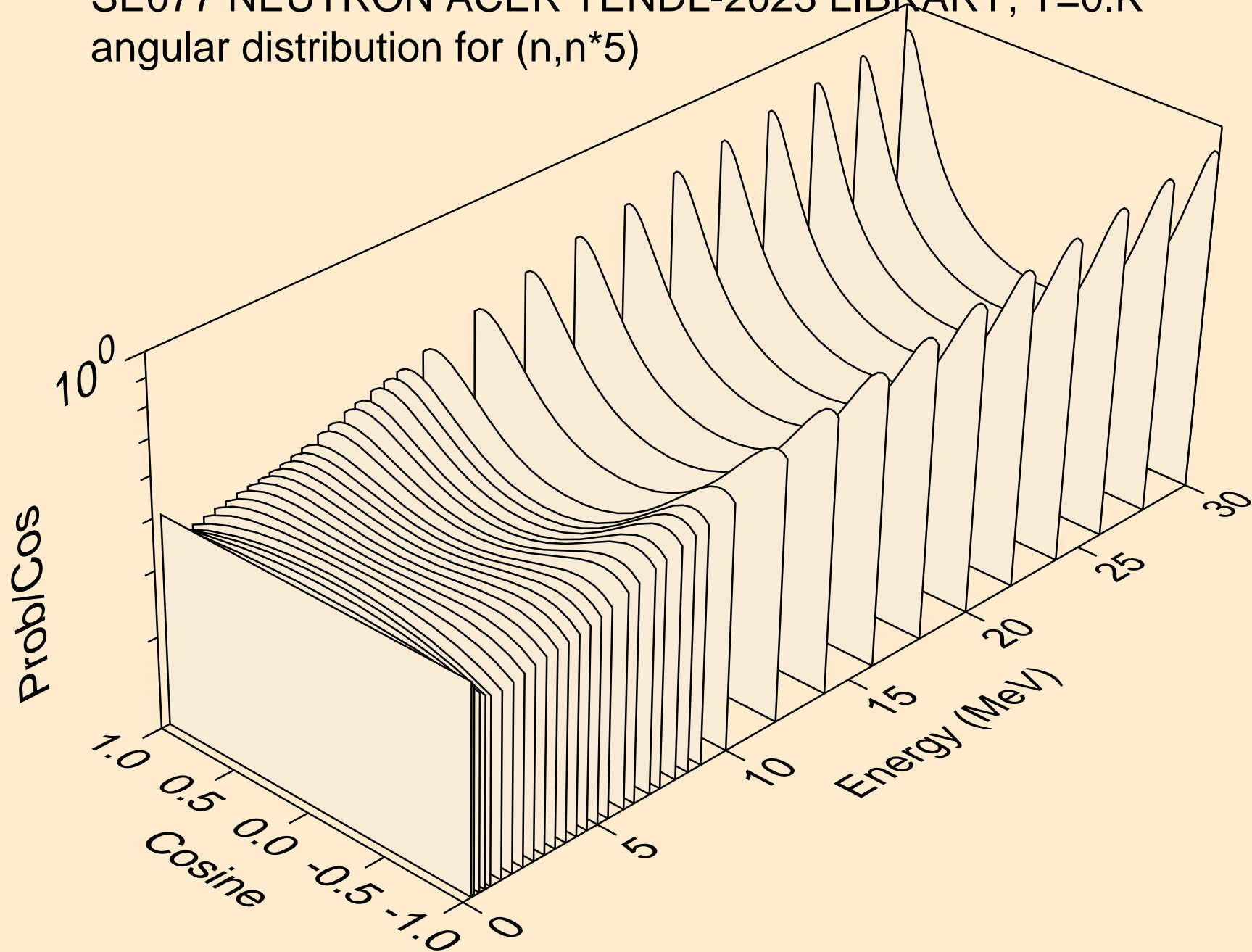
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angular distribution for (n,n\*3)



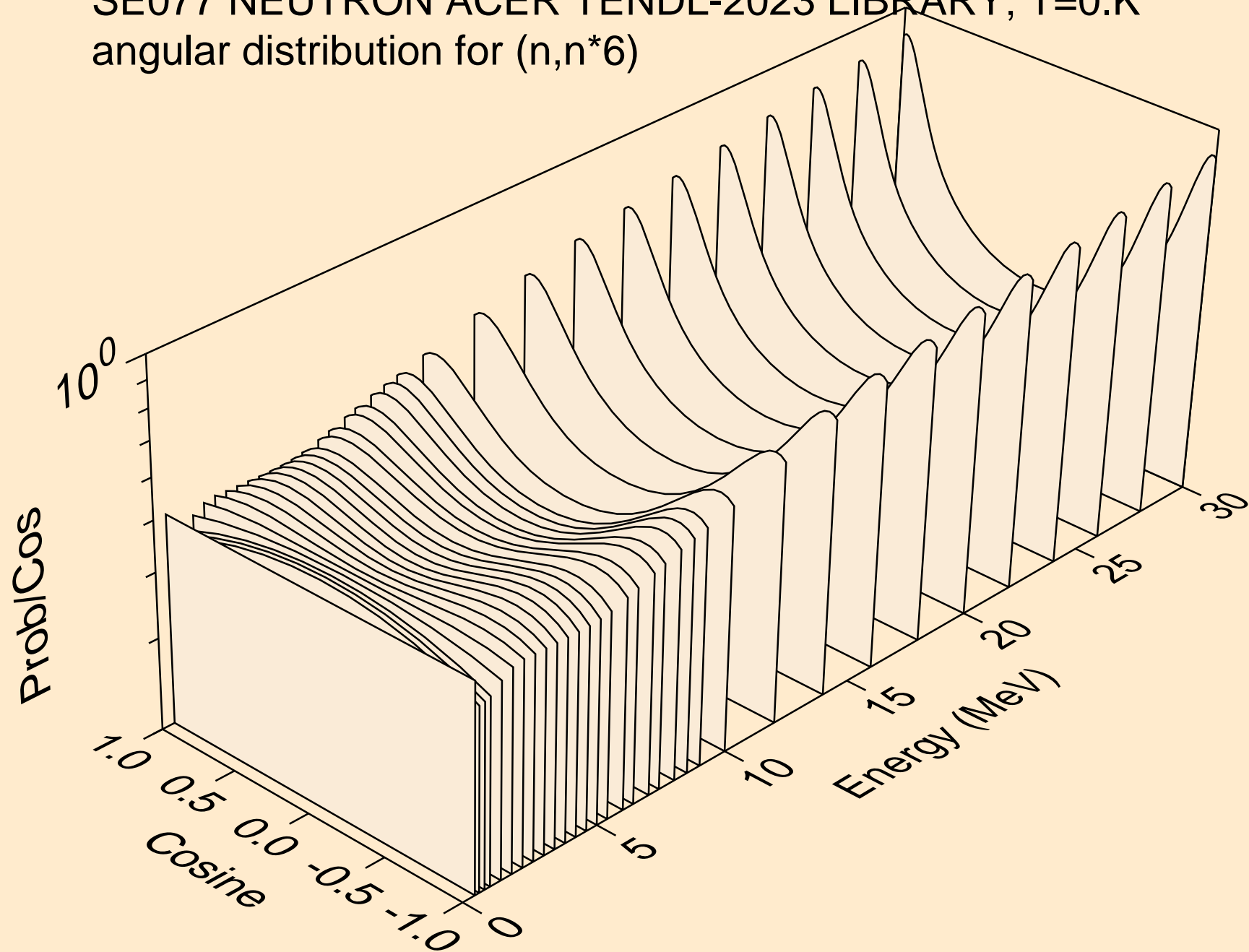
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)

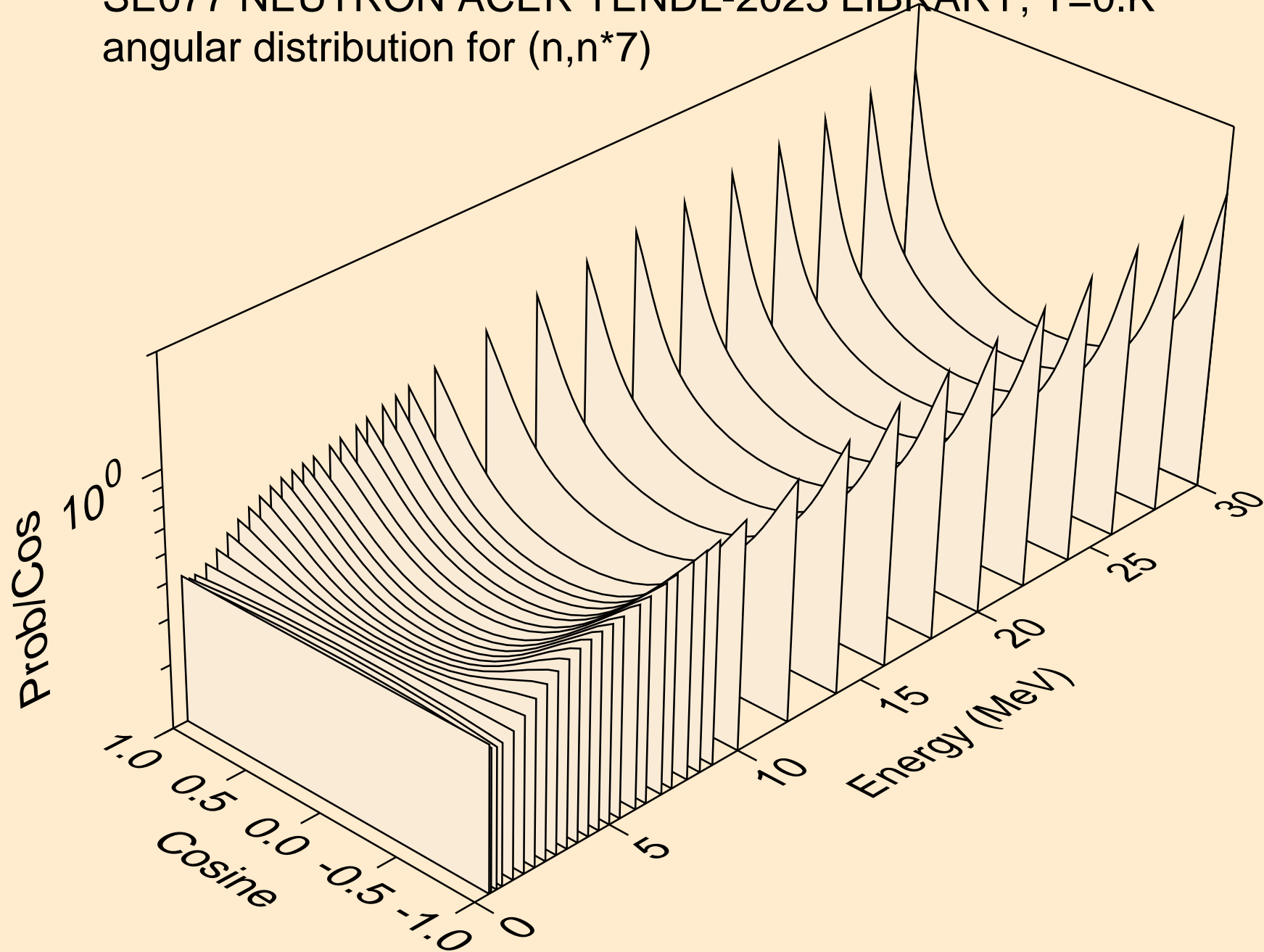


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angular distribution for (n,n\*6)

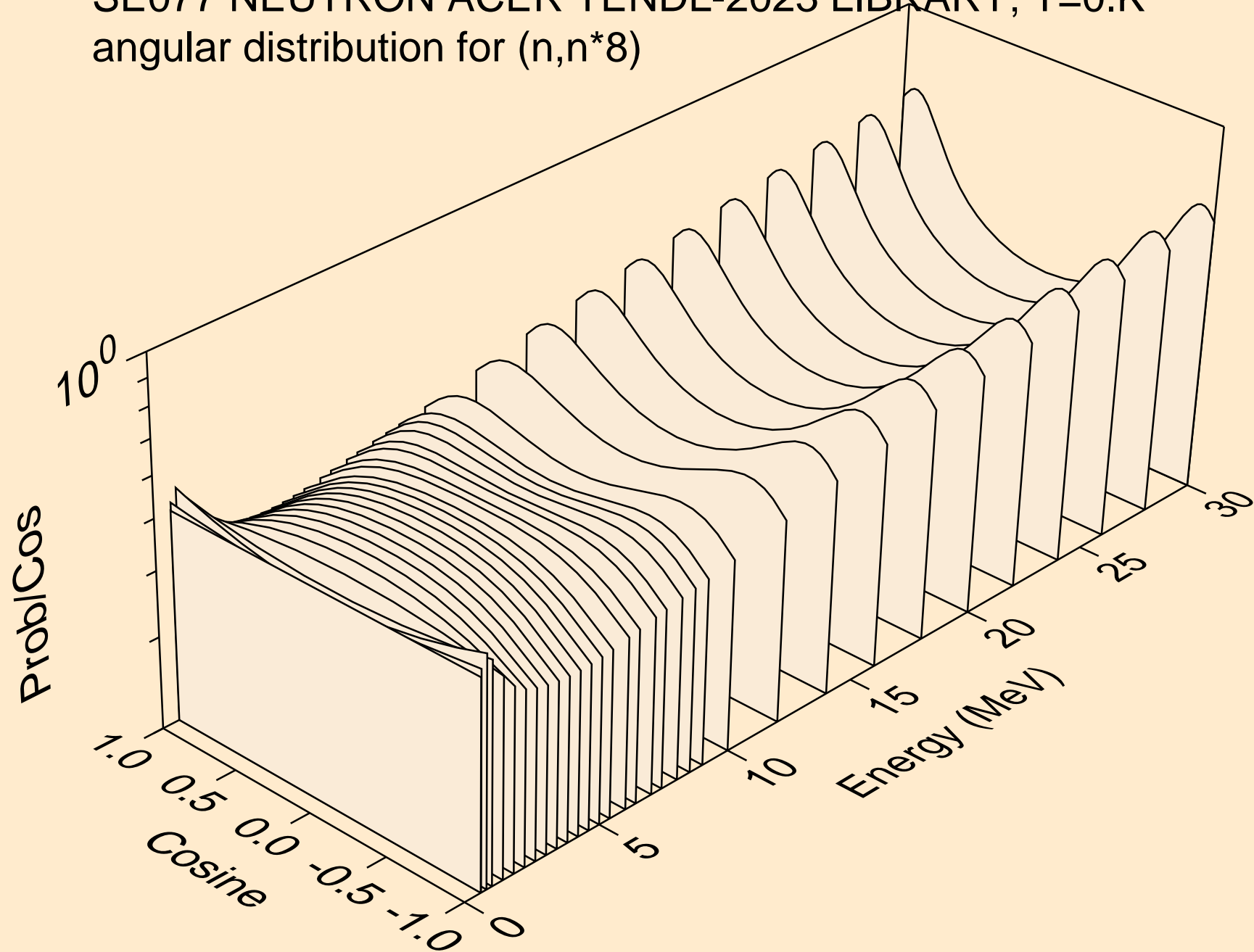




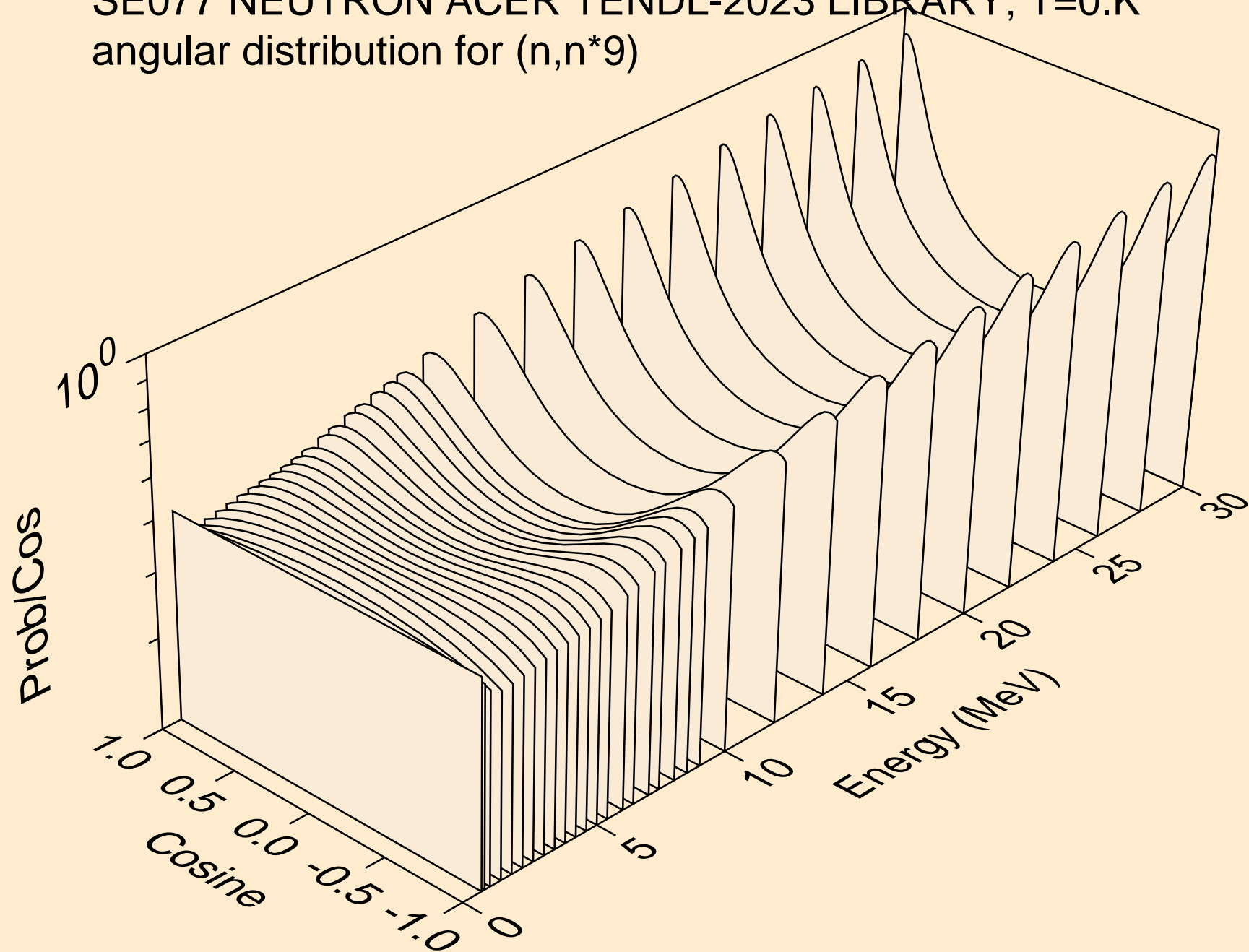
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angular distribution for (n,n\*7)



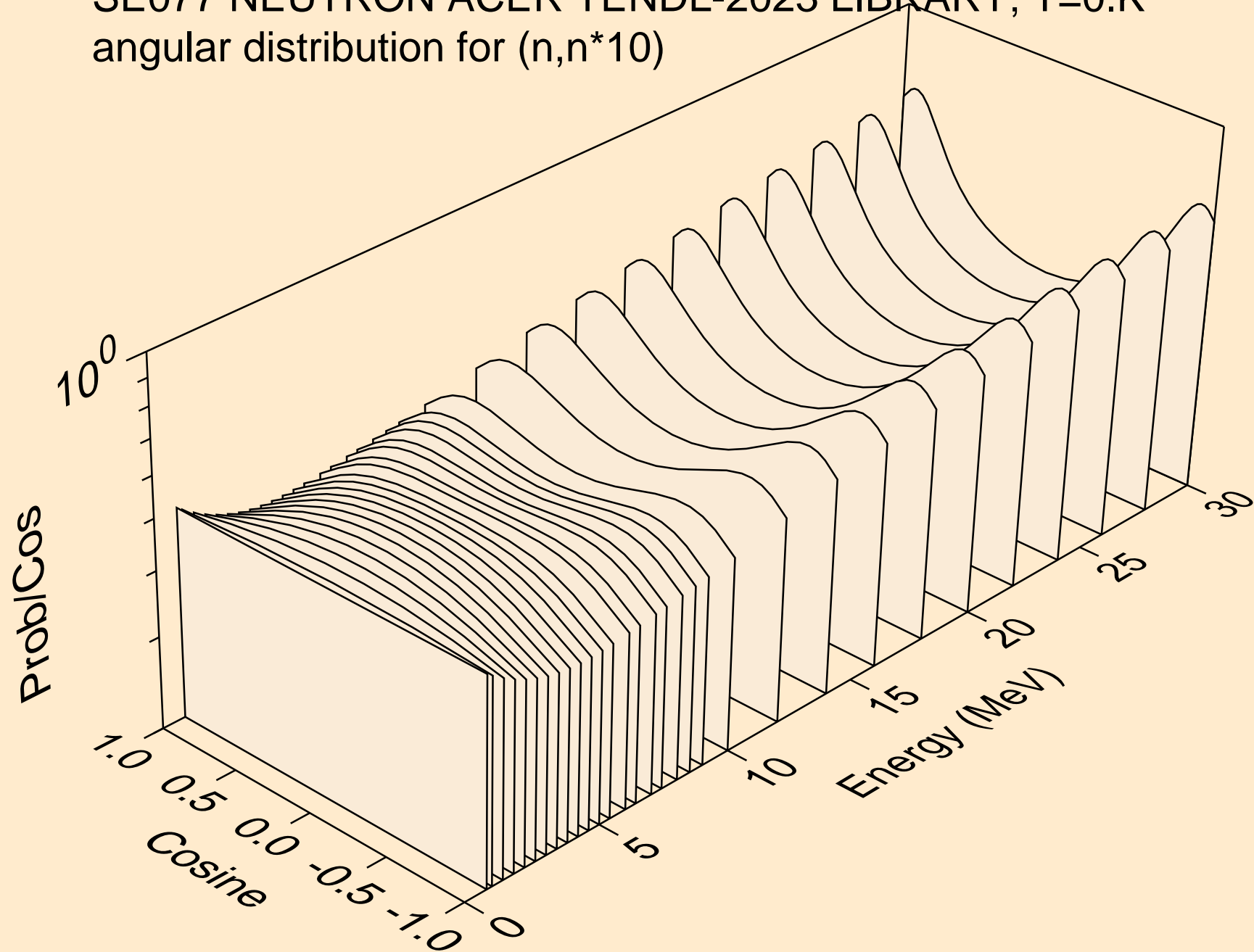
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angular distribution for (n,n\*8)



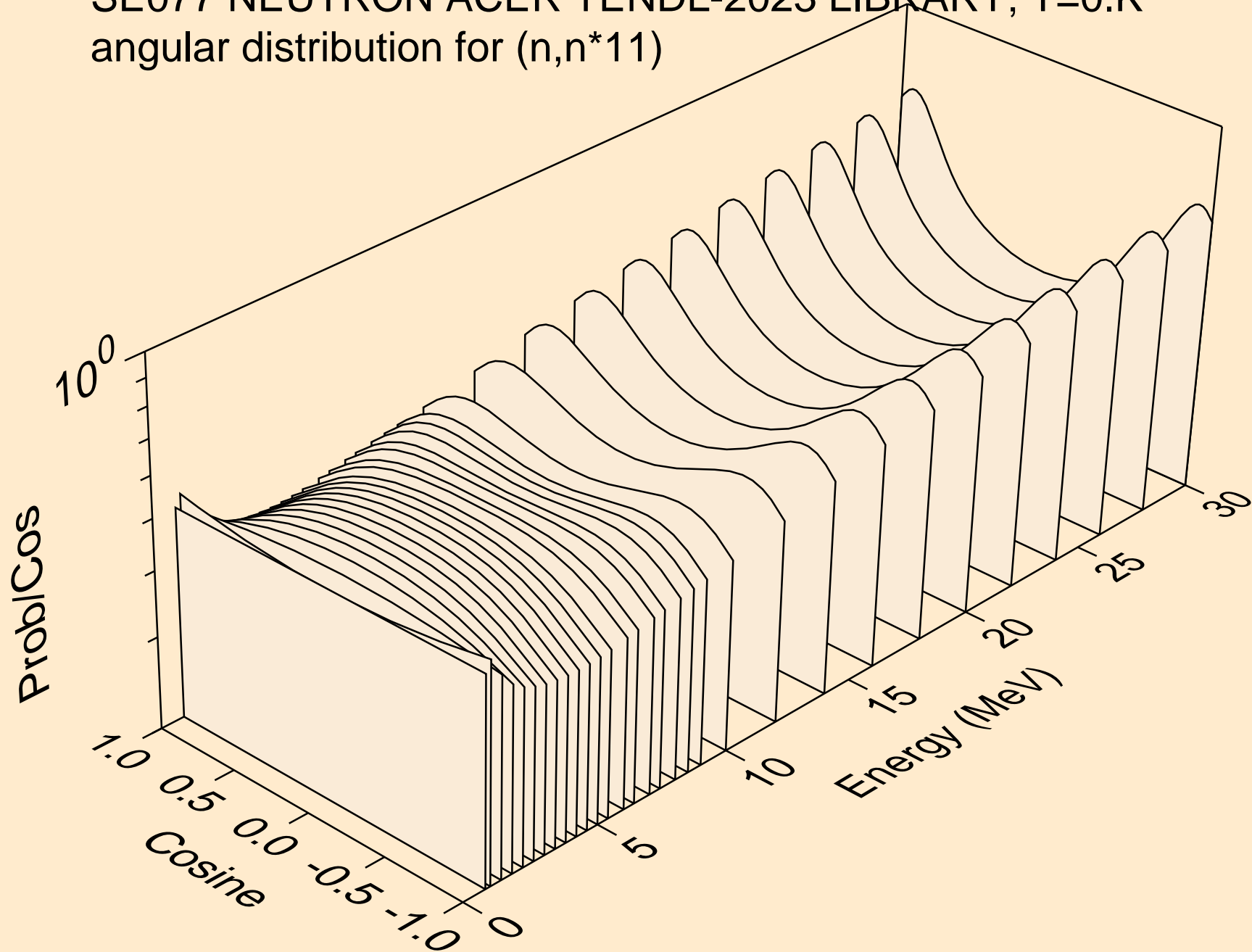
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angular distribution for (n,n\*9)



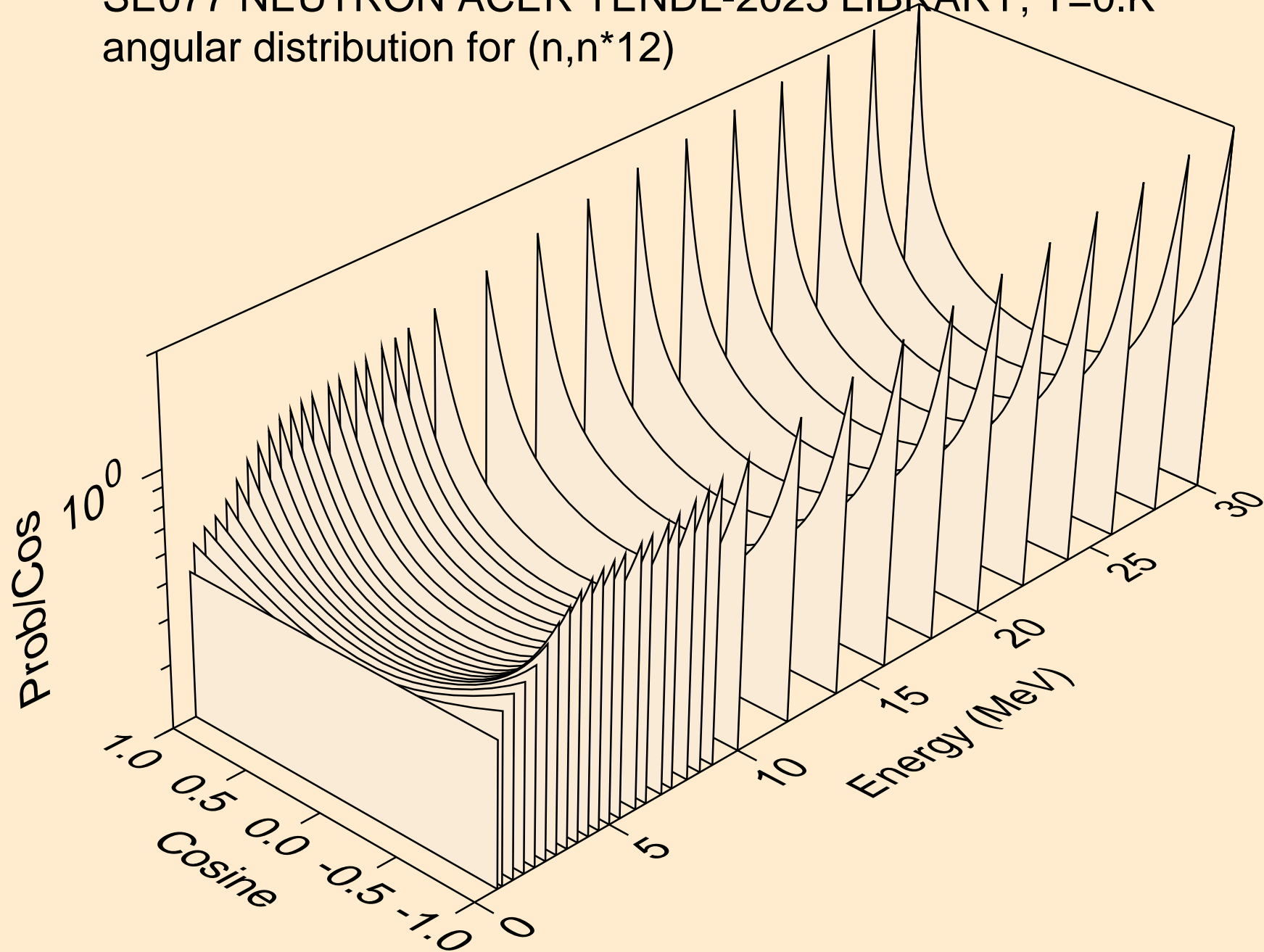
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angular distribution for (n,n\*10)



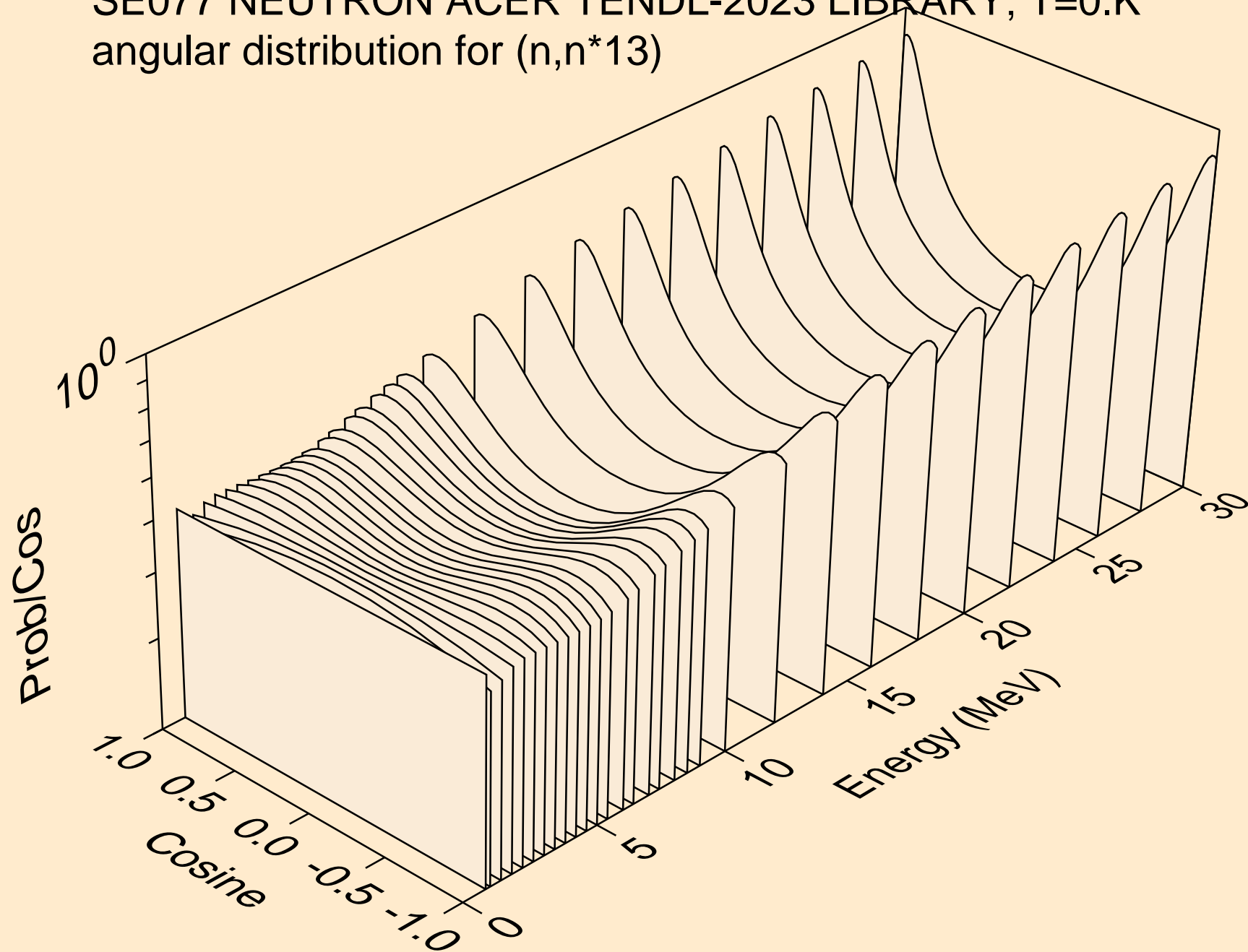
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angular distribution for (n,n\*11)



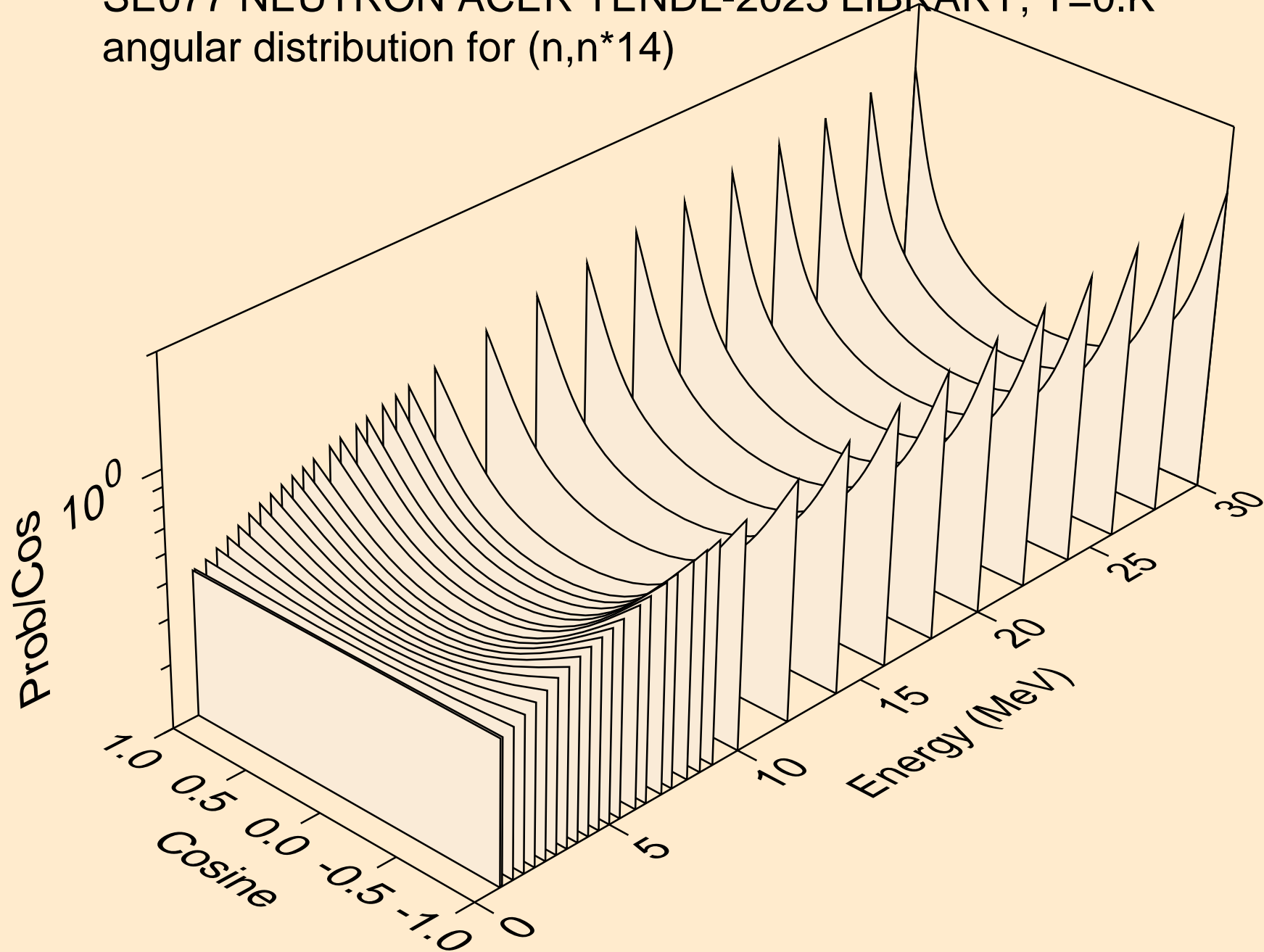
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)

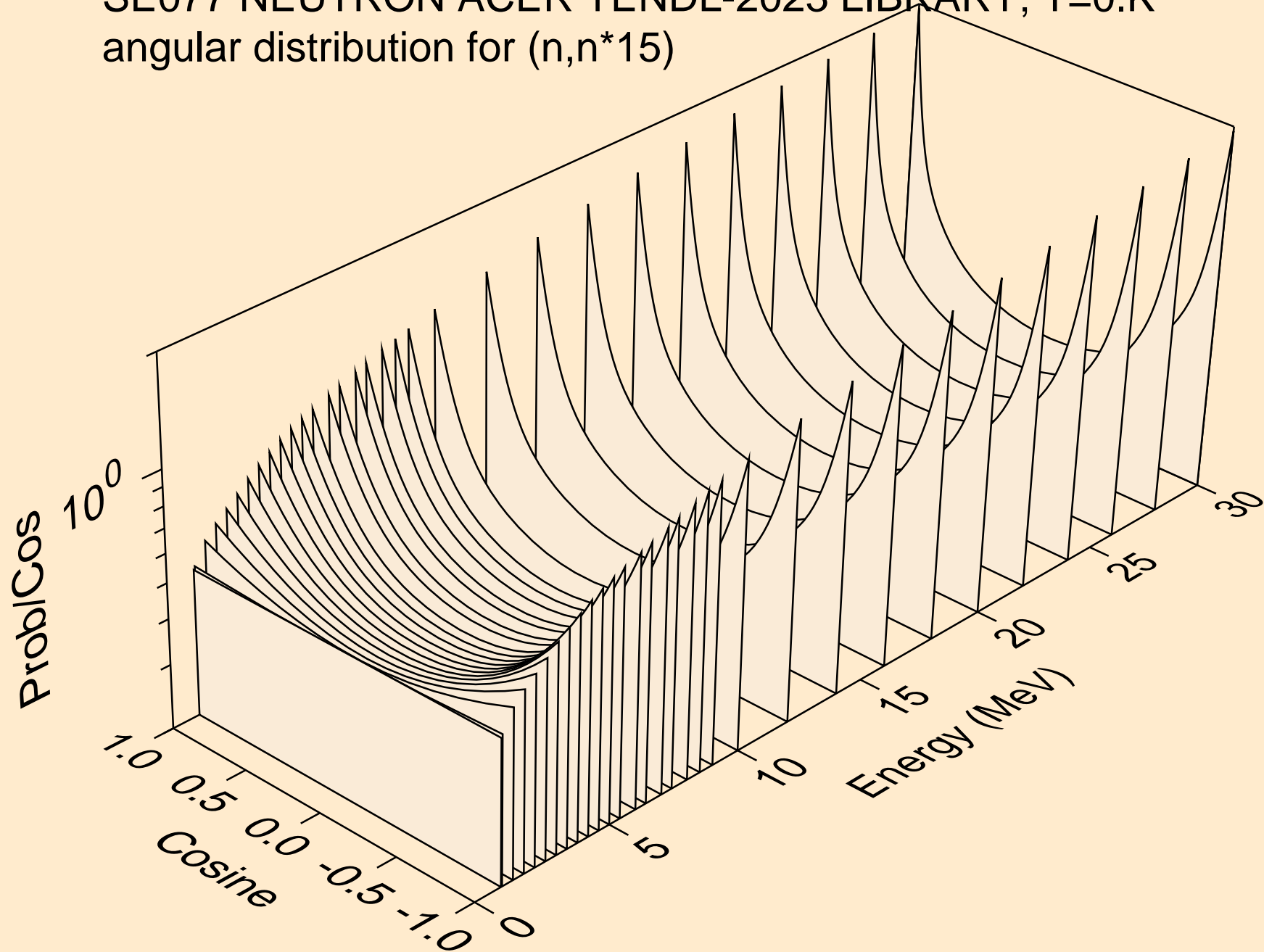


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angular distribution for (n,n\*14)

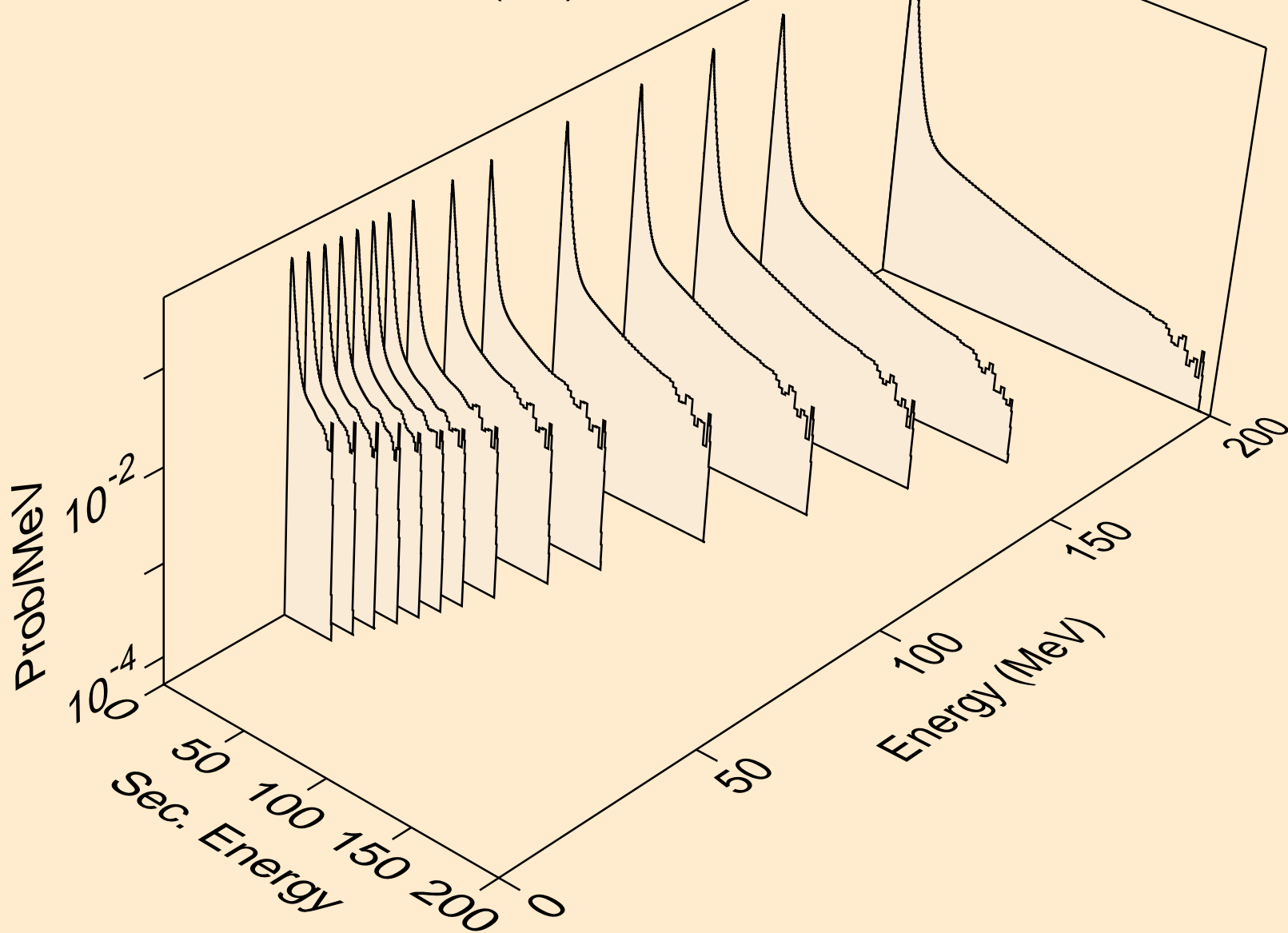




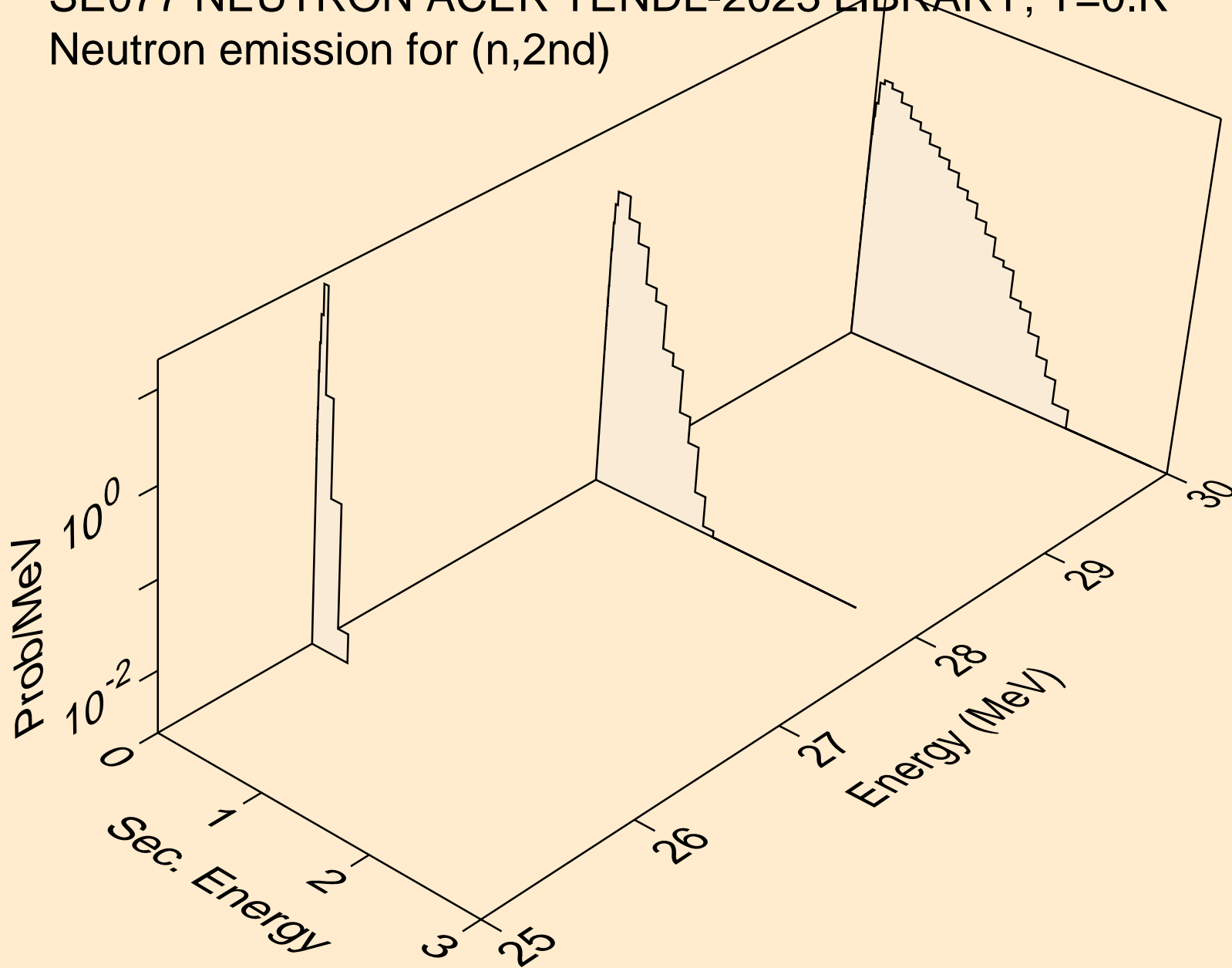
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angular distribution for (n,n\*15)



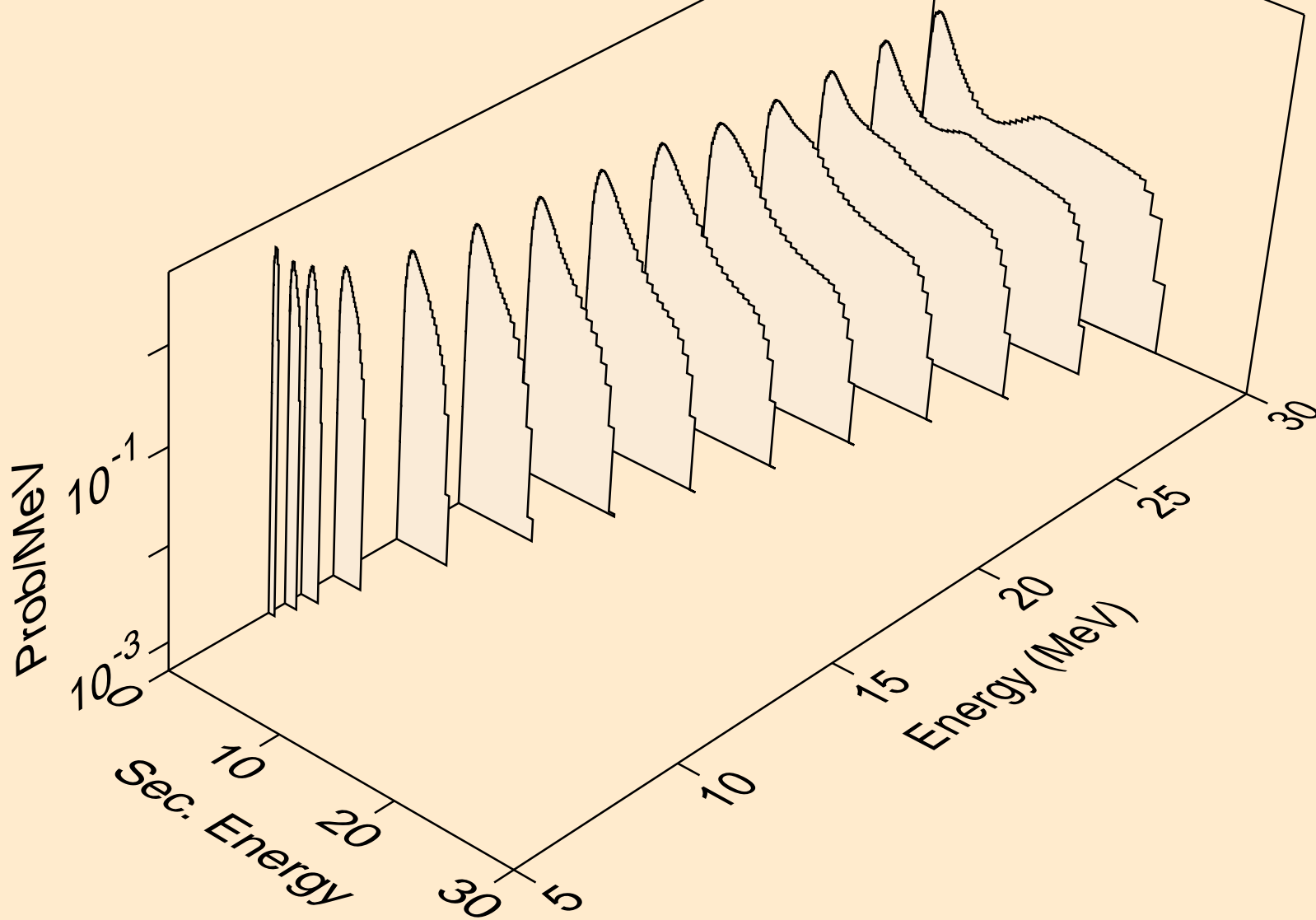
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Neutron emission for (n,x)



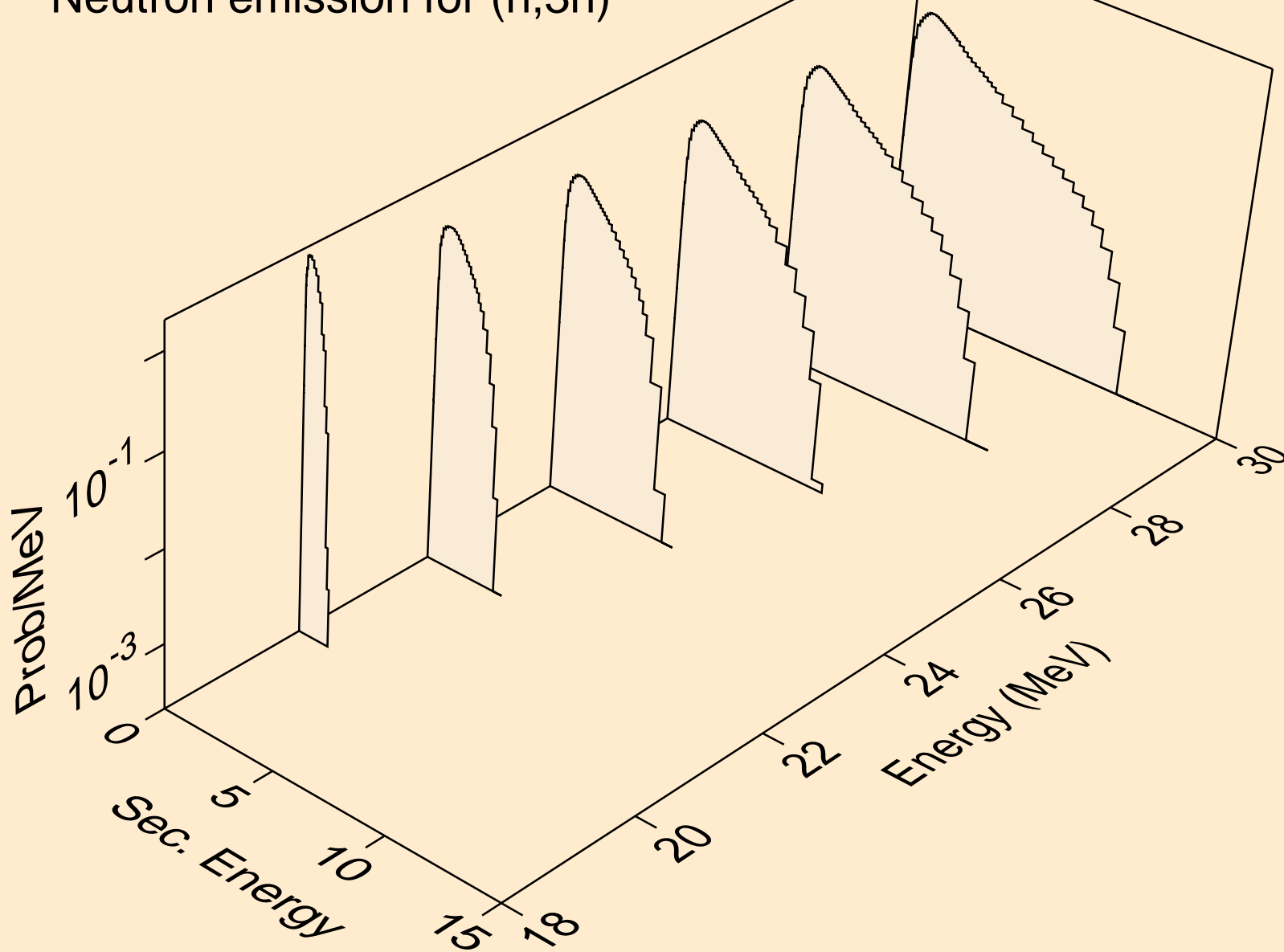
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



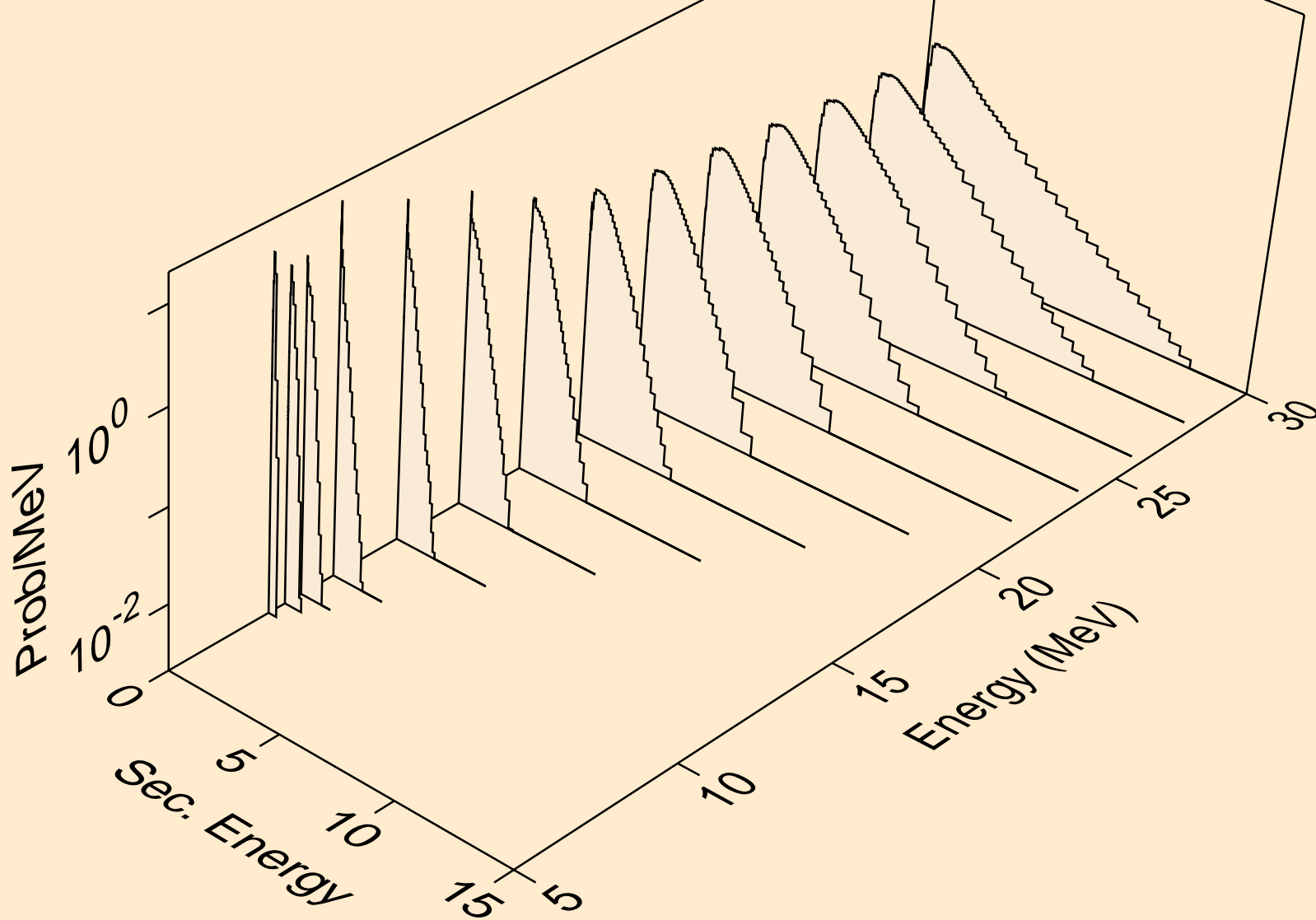
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



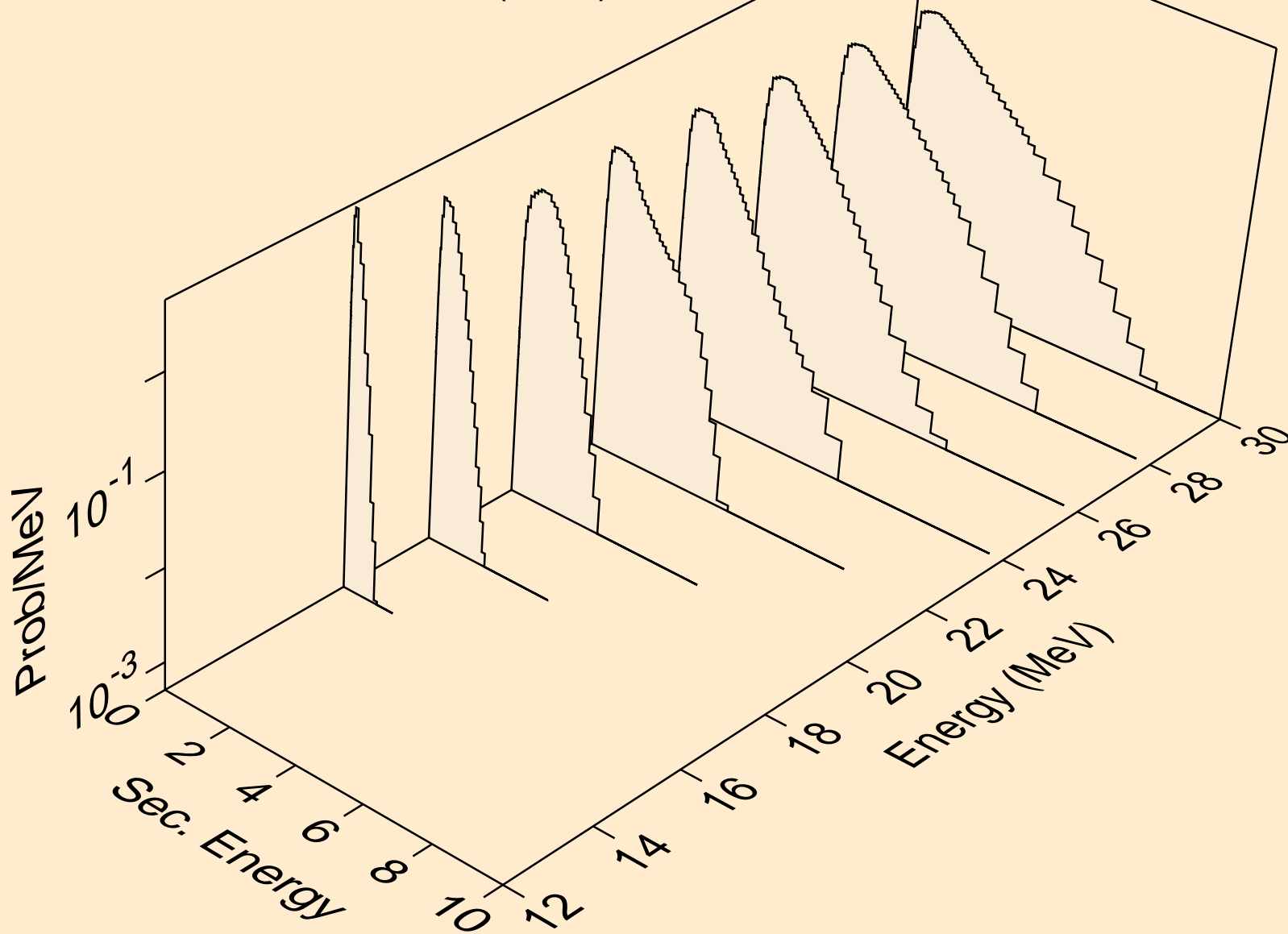
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



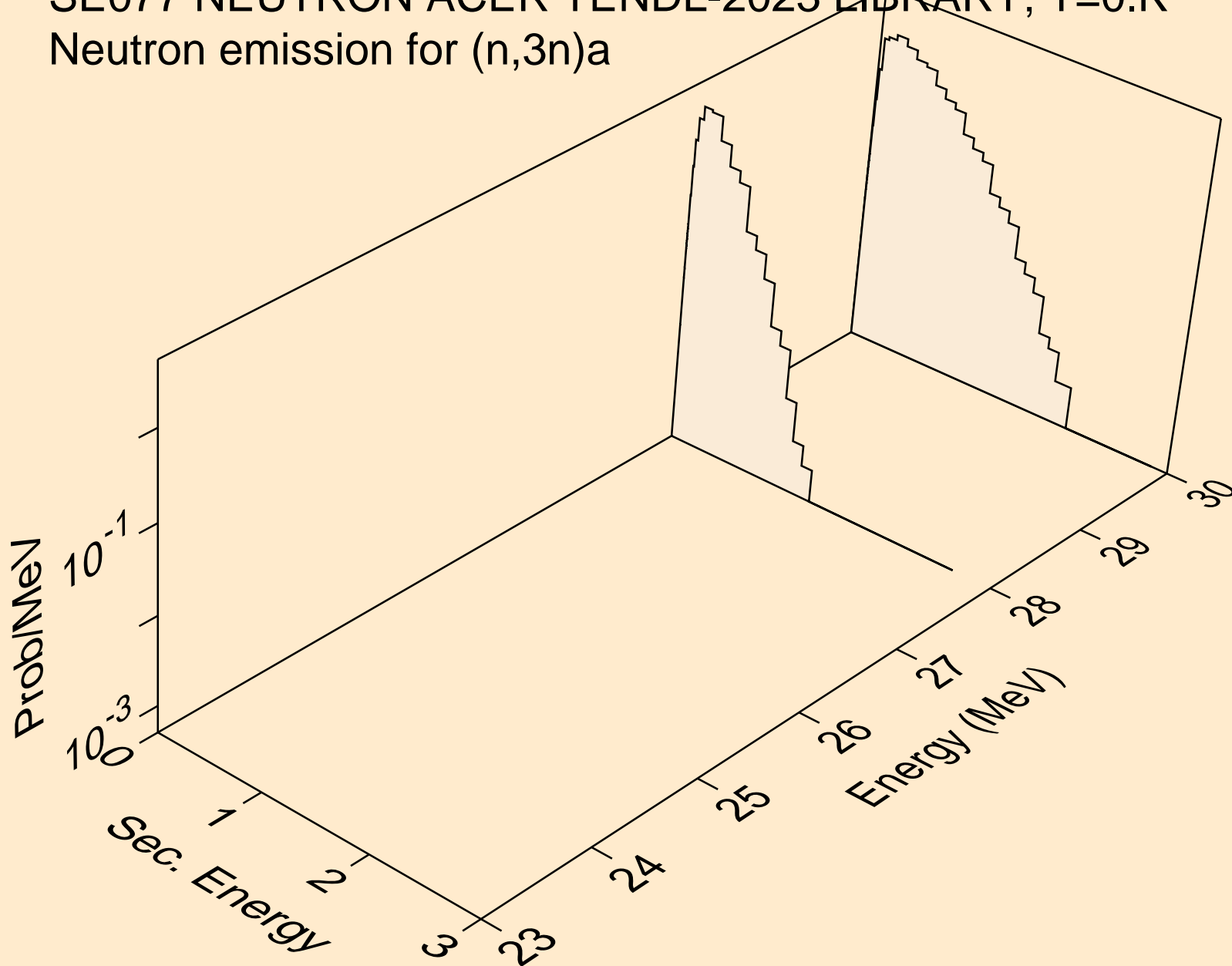
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

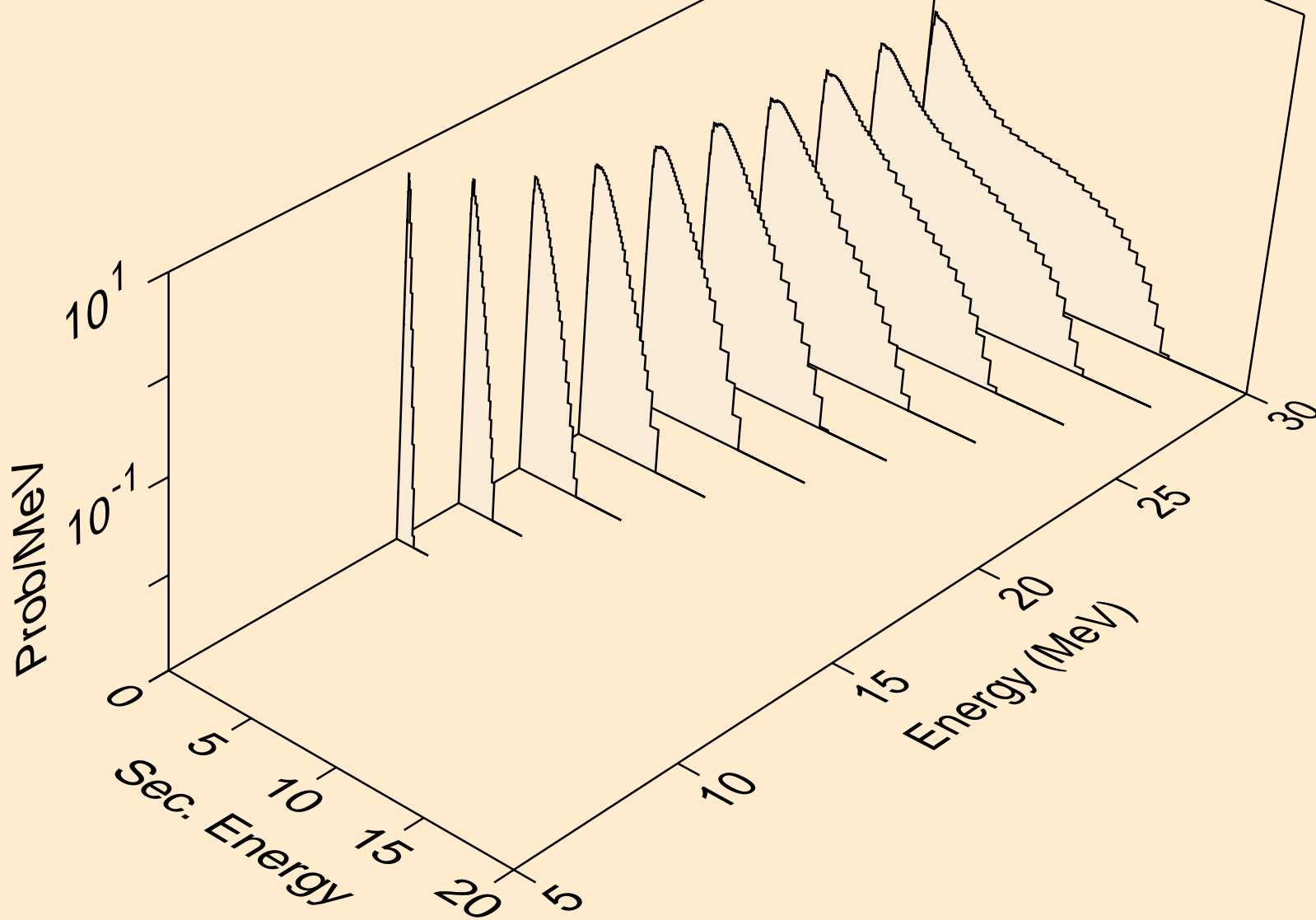


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a

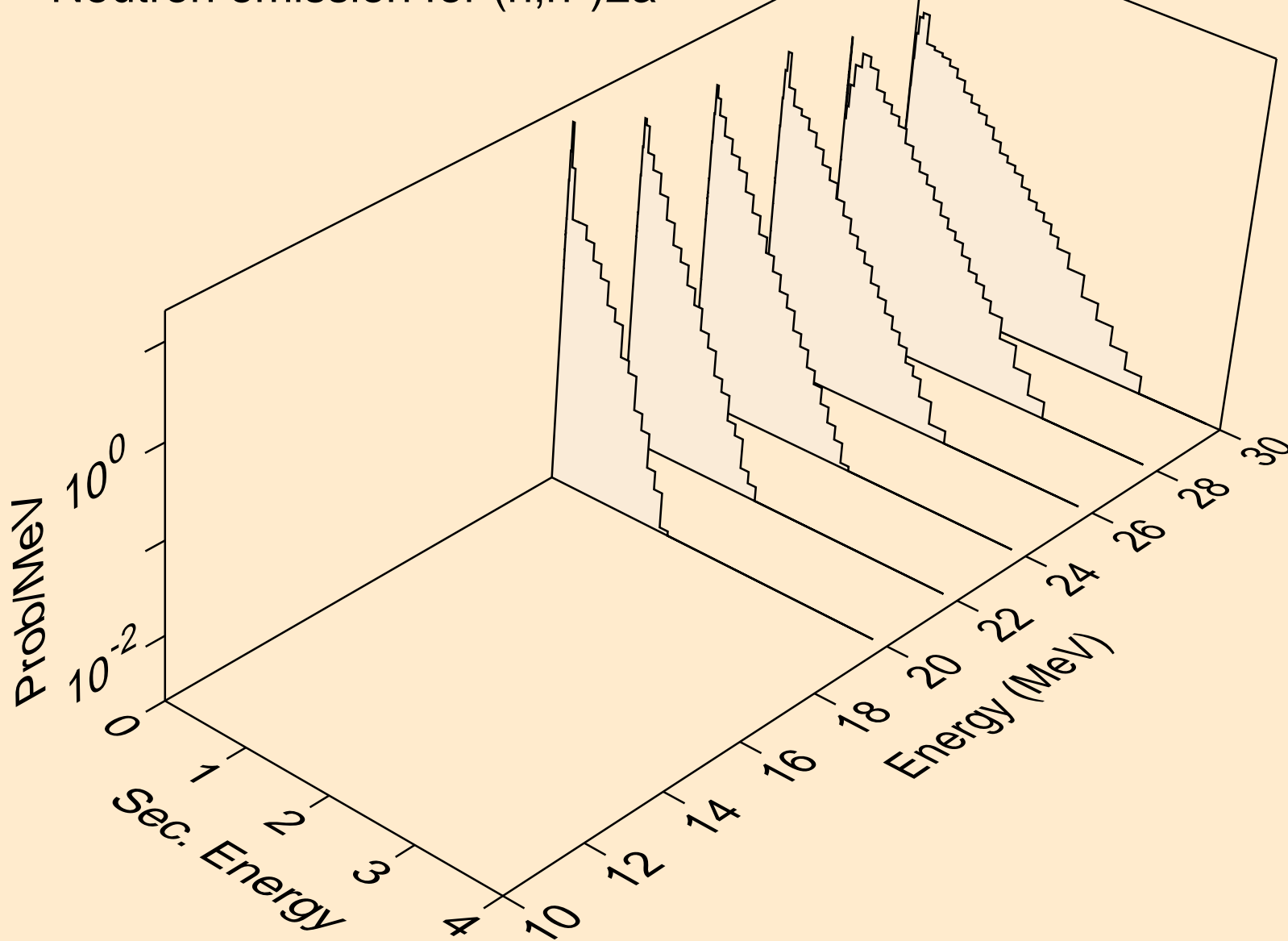




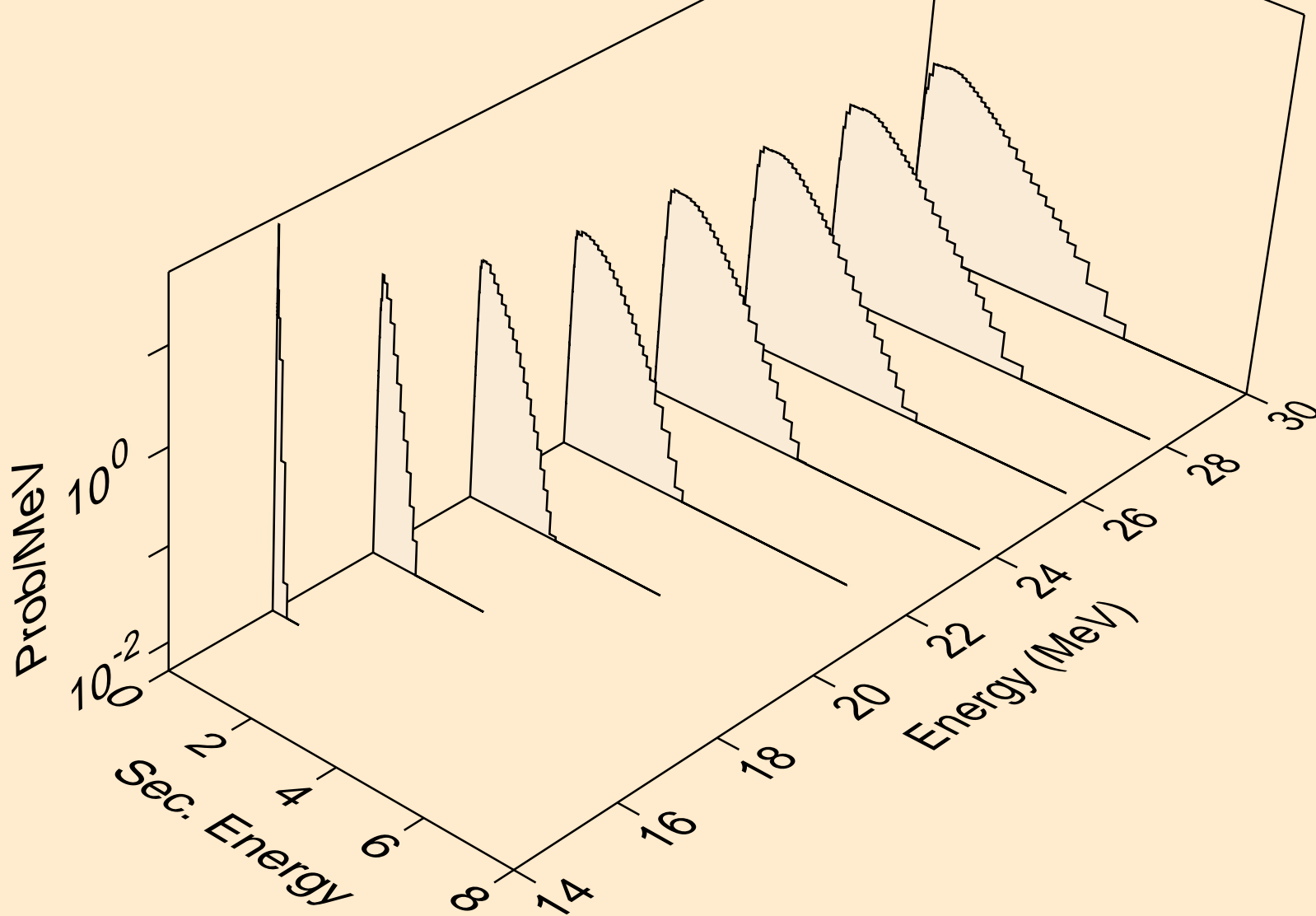
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



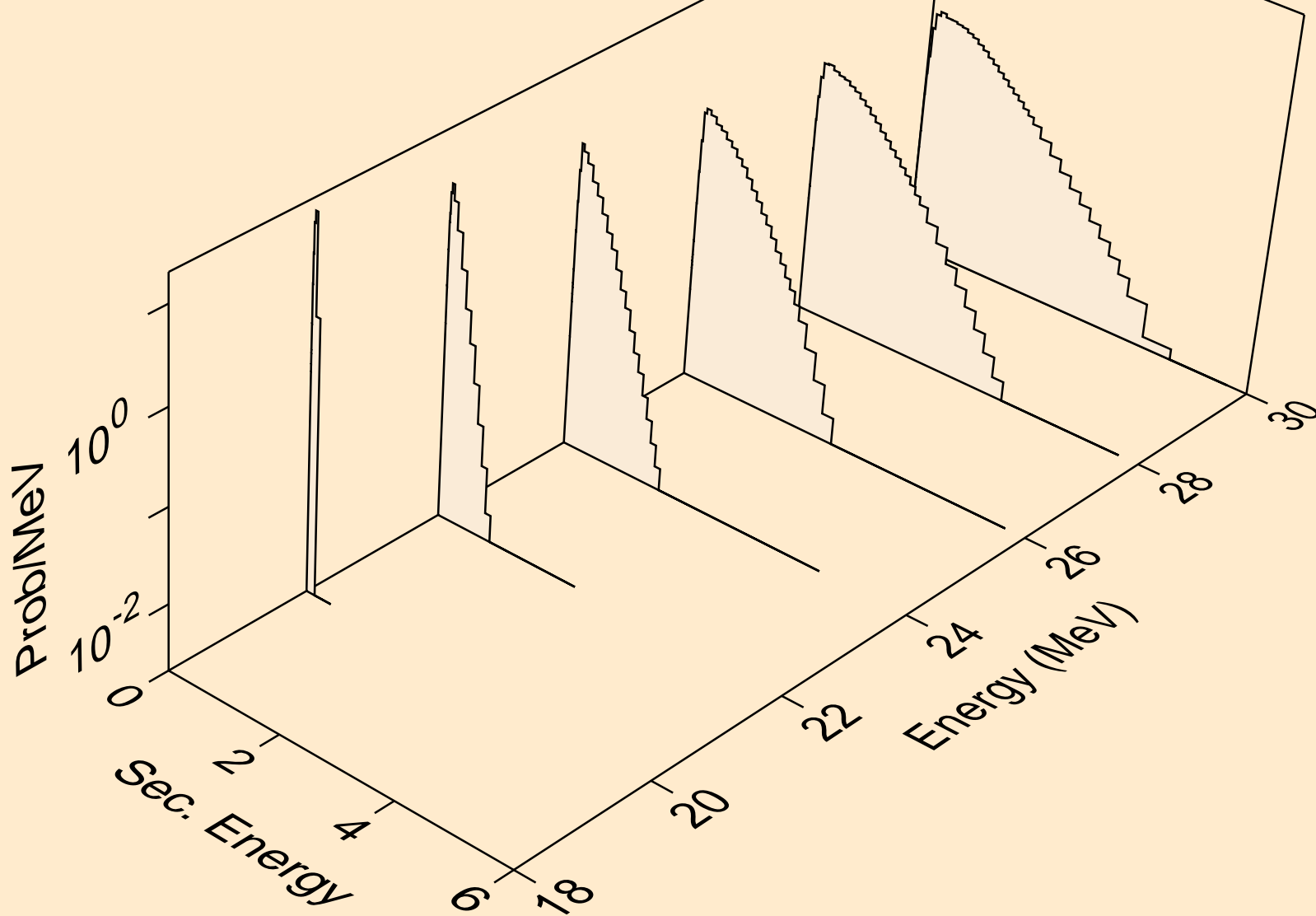
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



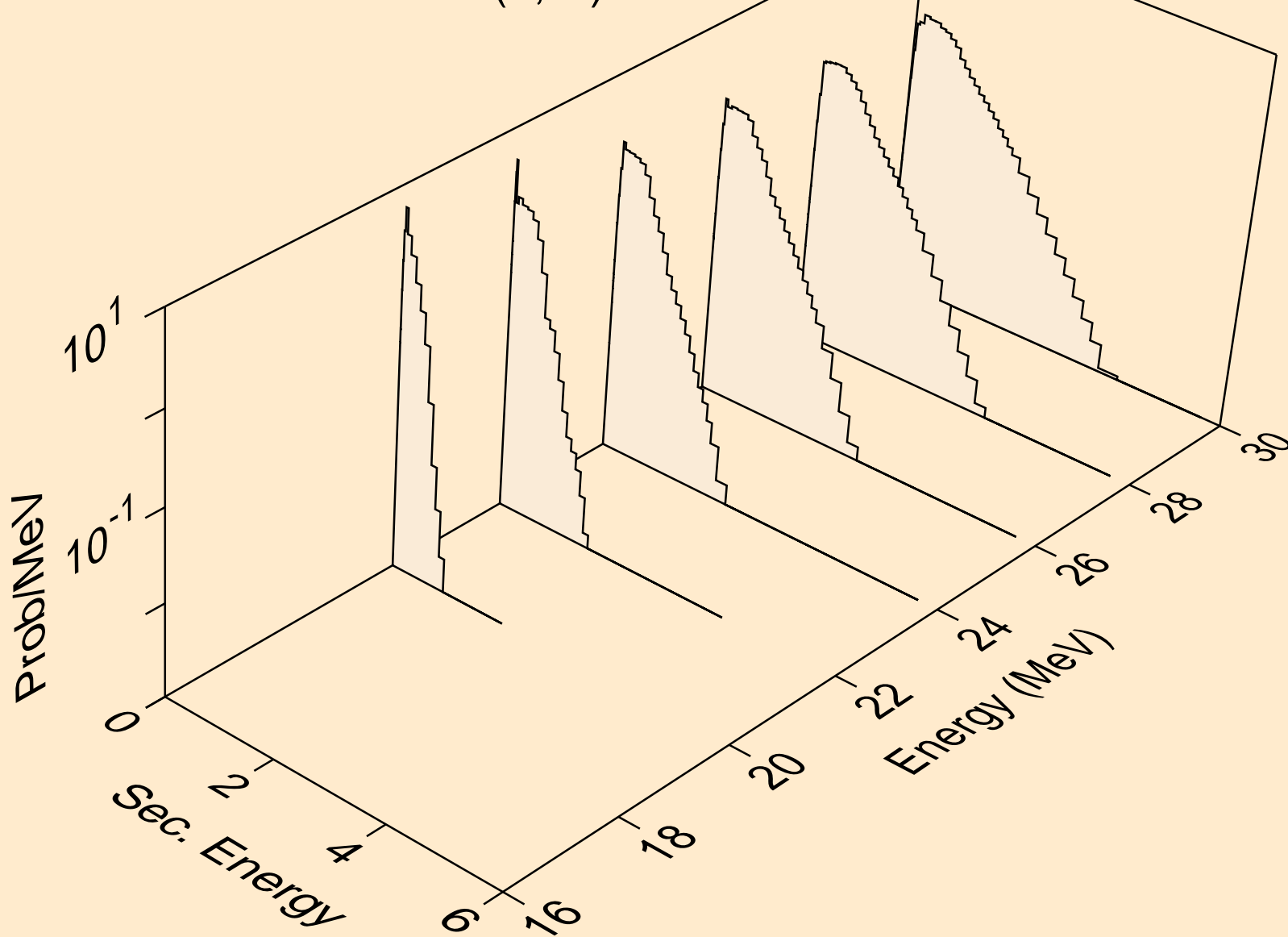
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Neutron emission for (n,n\*)d



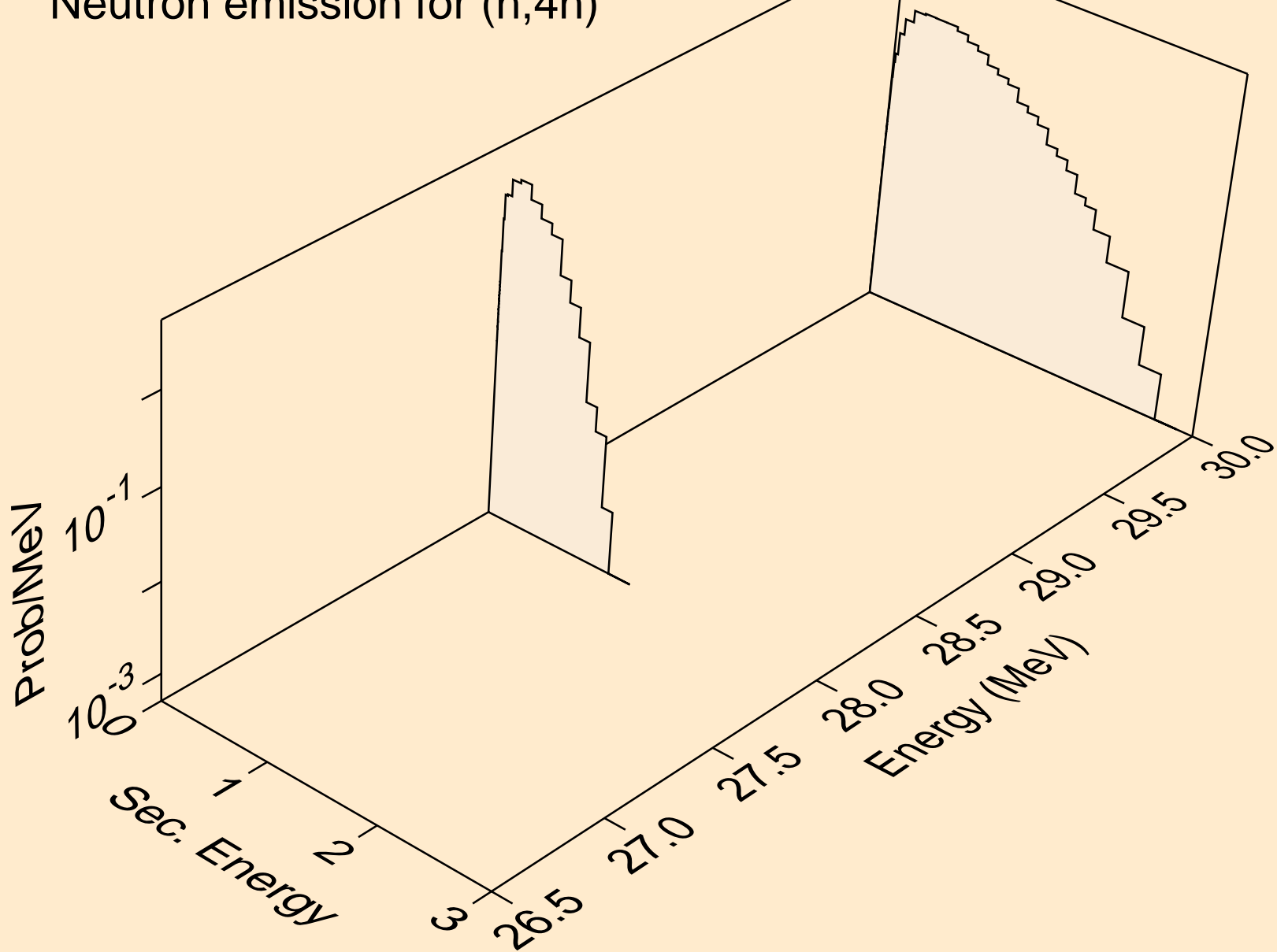
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Neutron emission for (n,n\*)t



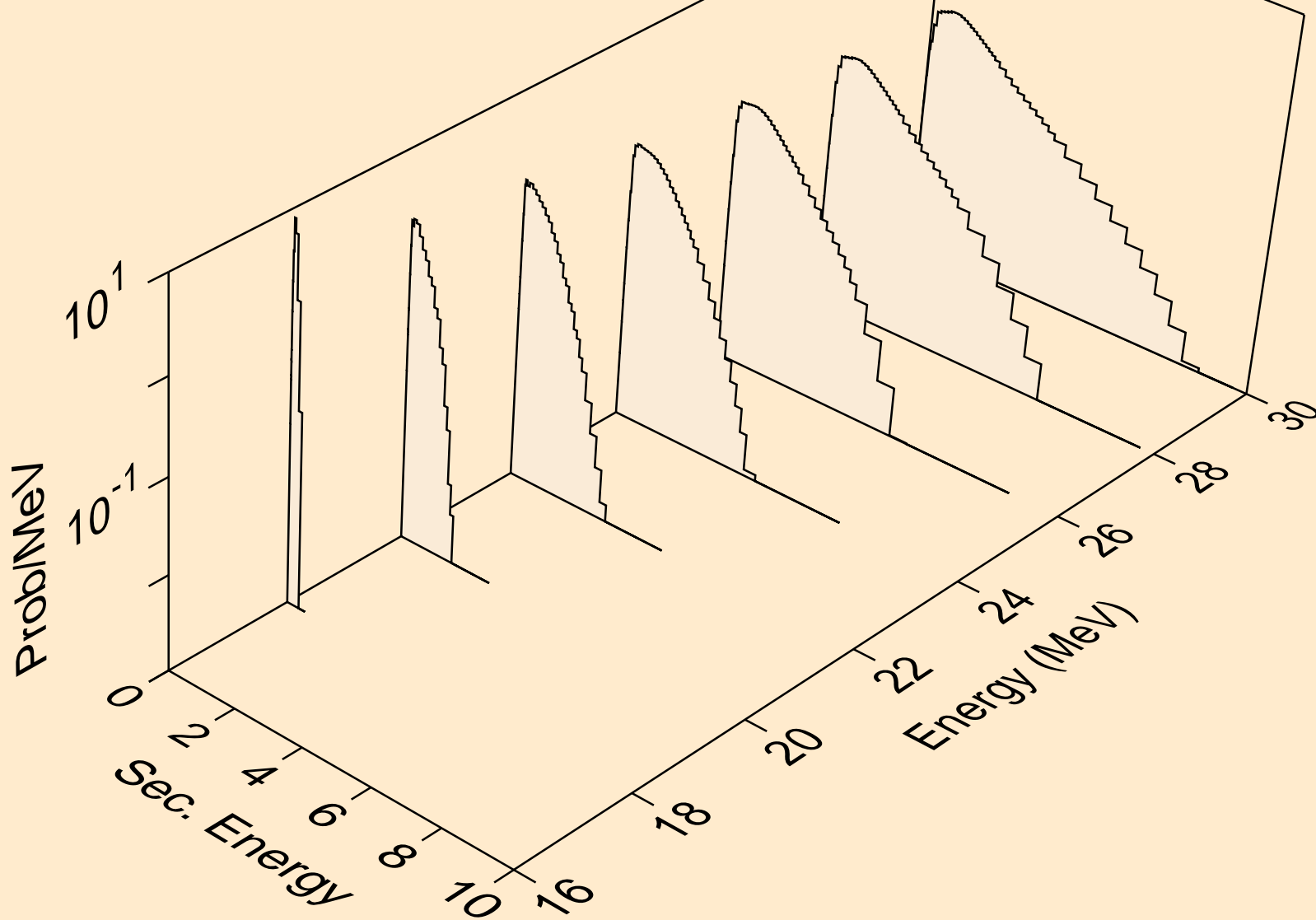
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



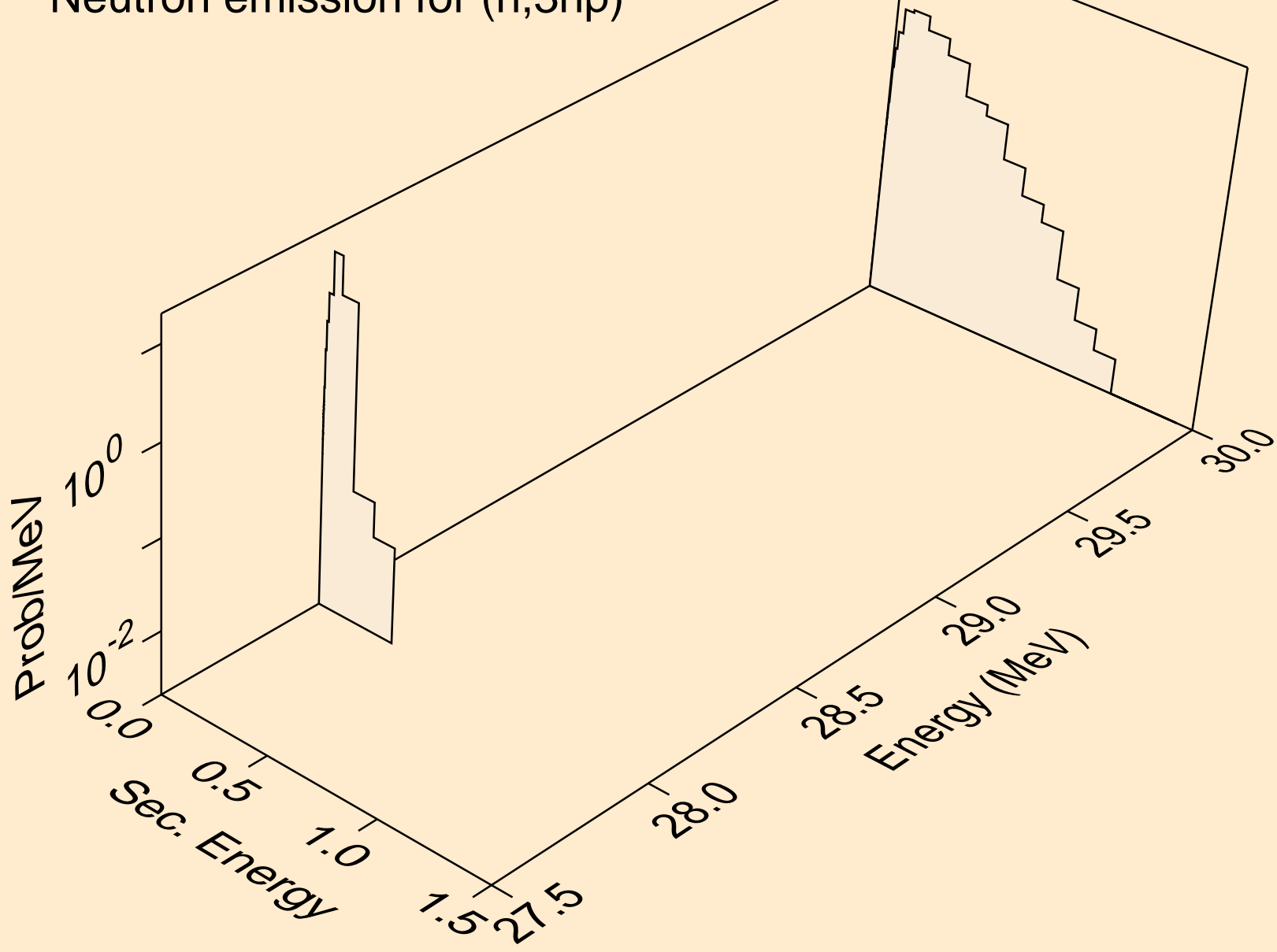
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)

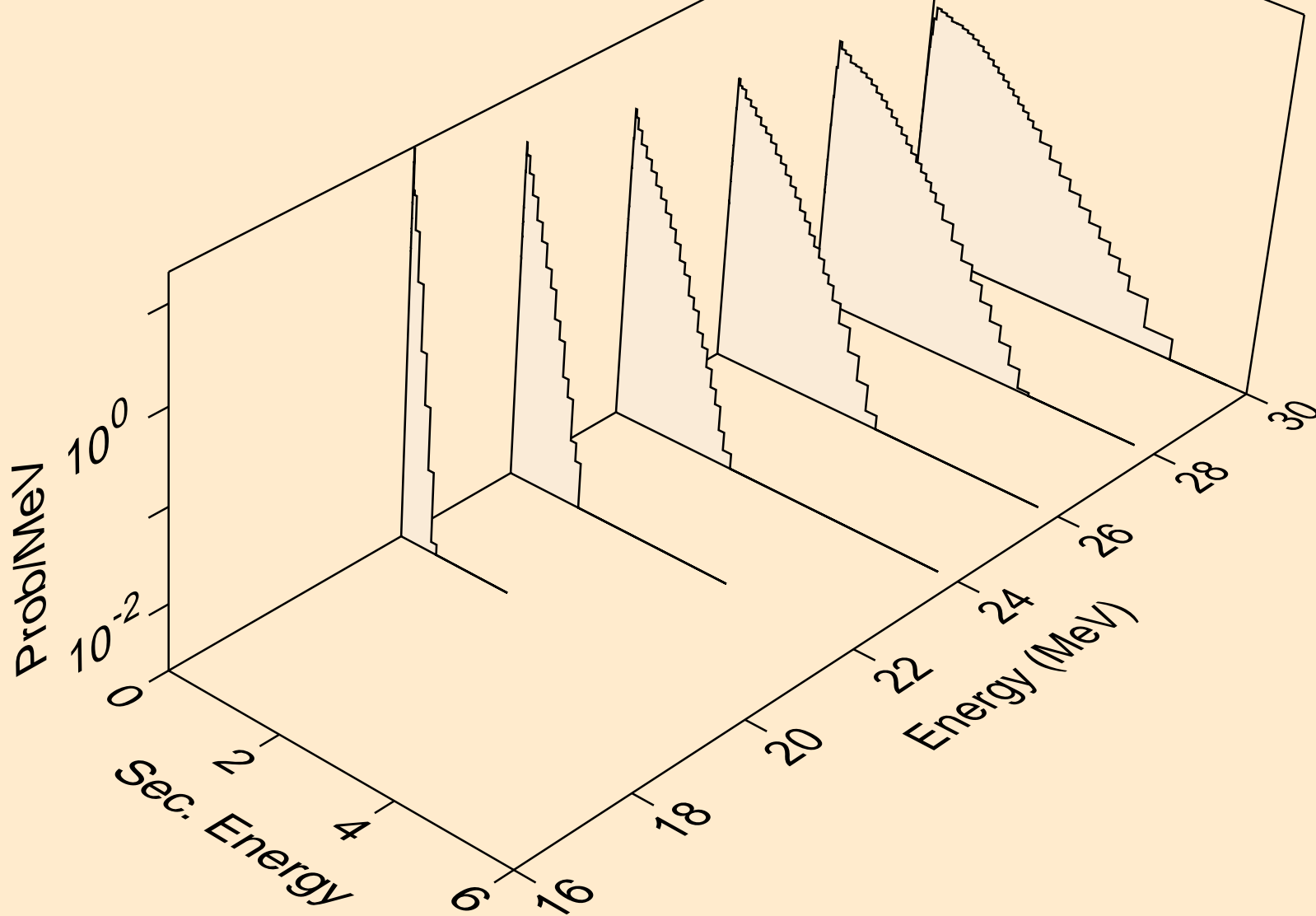


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Neutron emission for (n,3np)

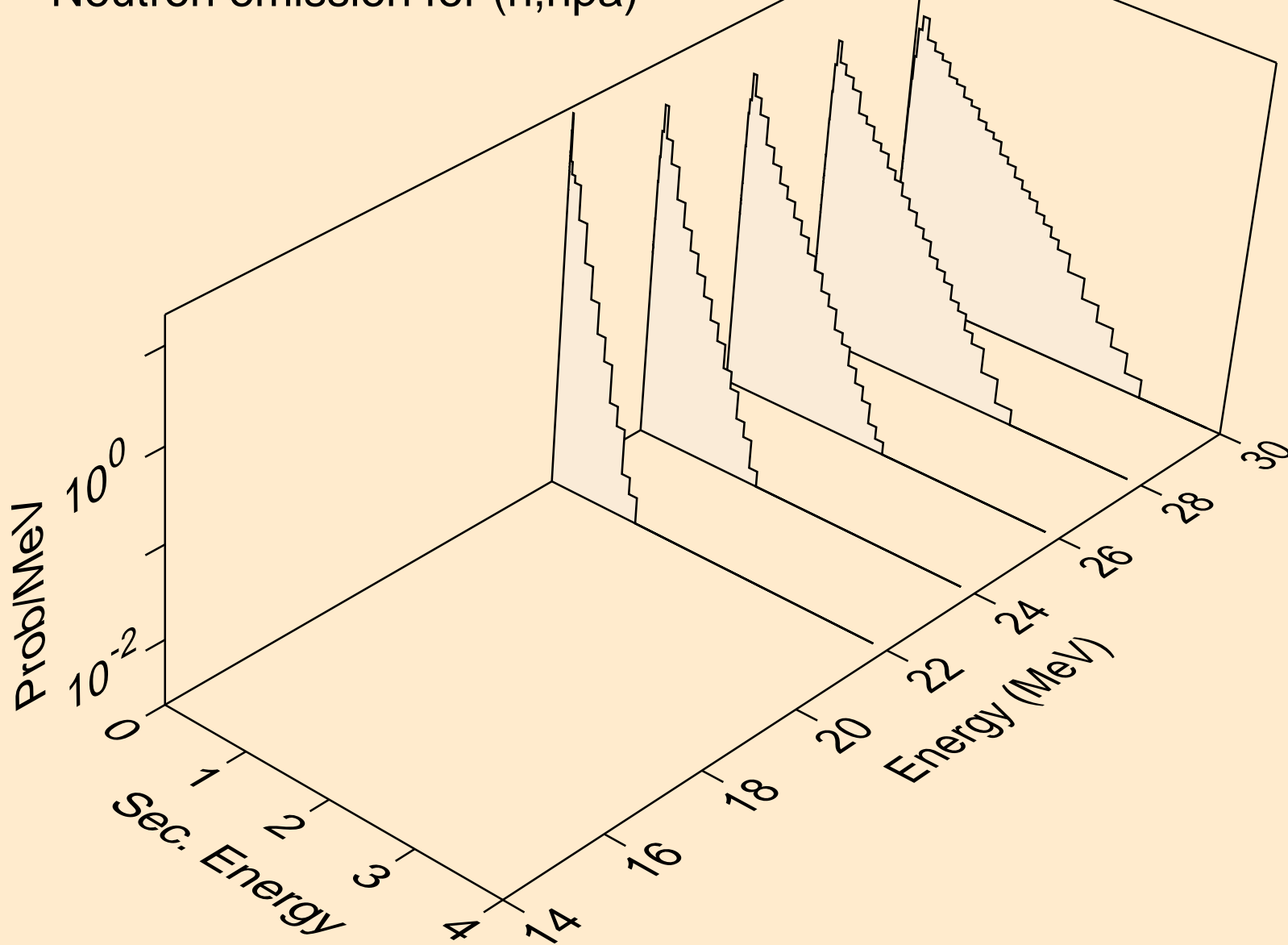




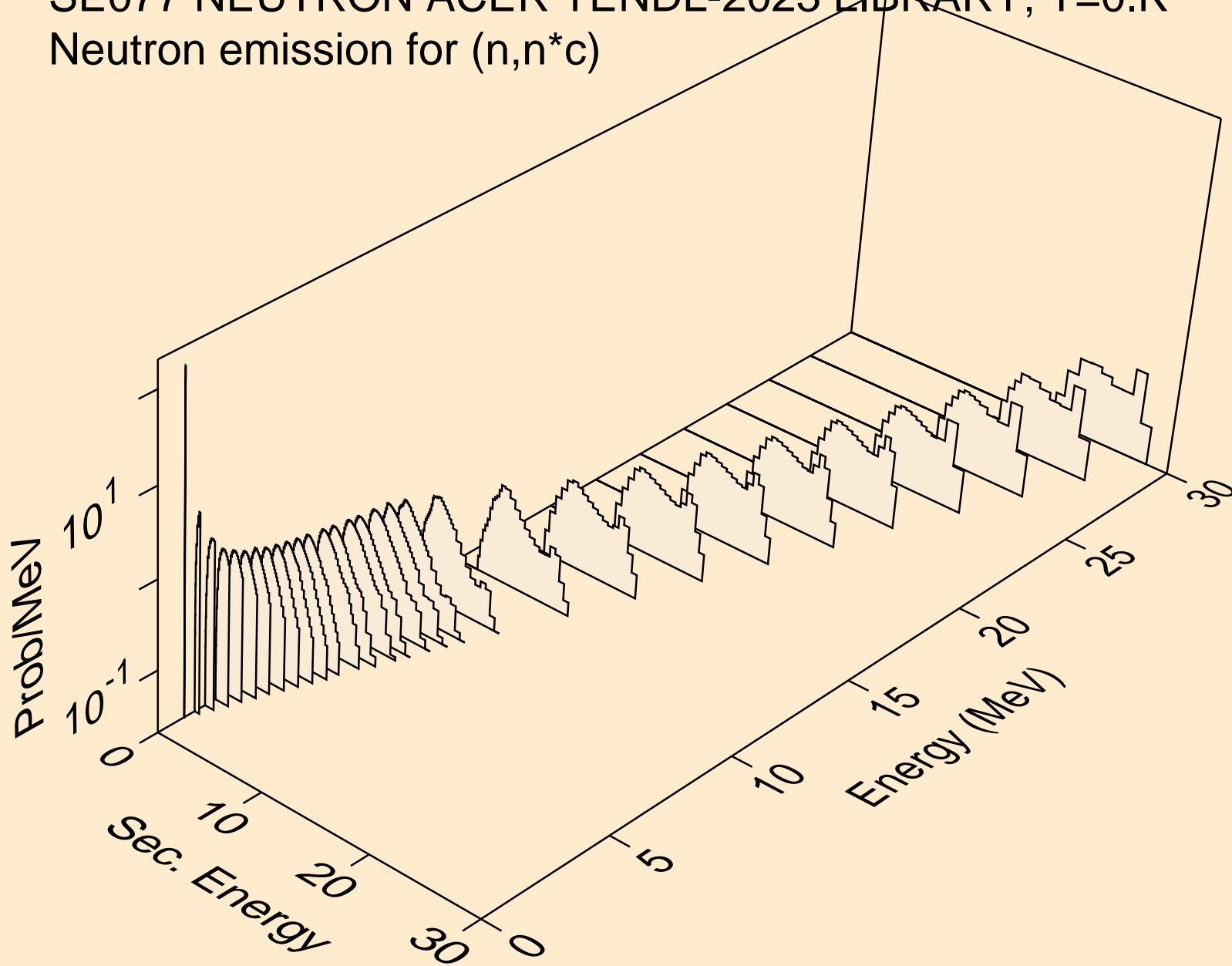
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



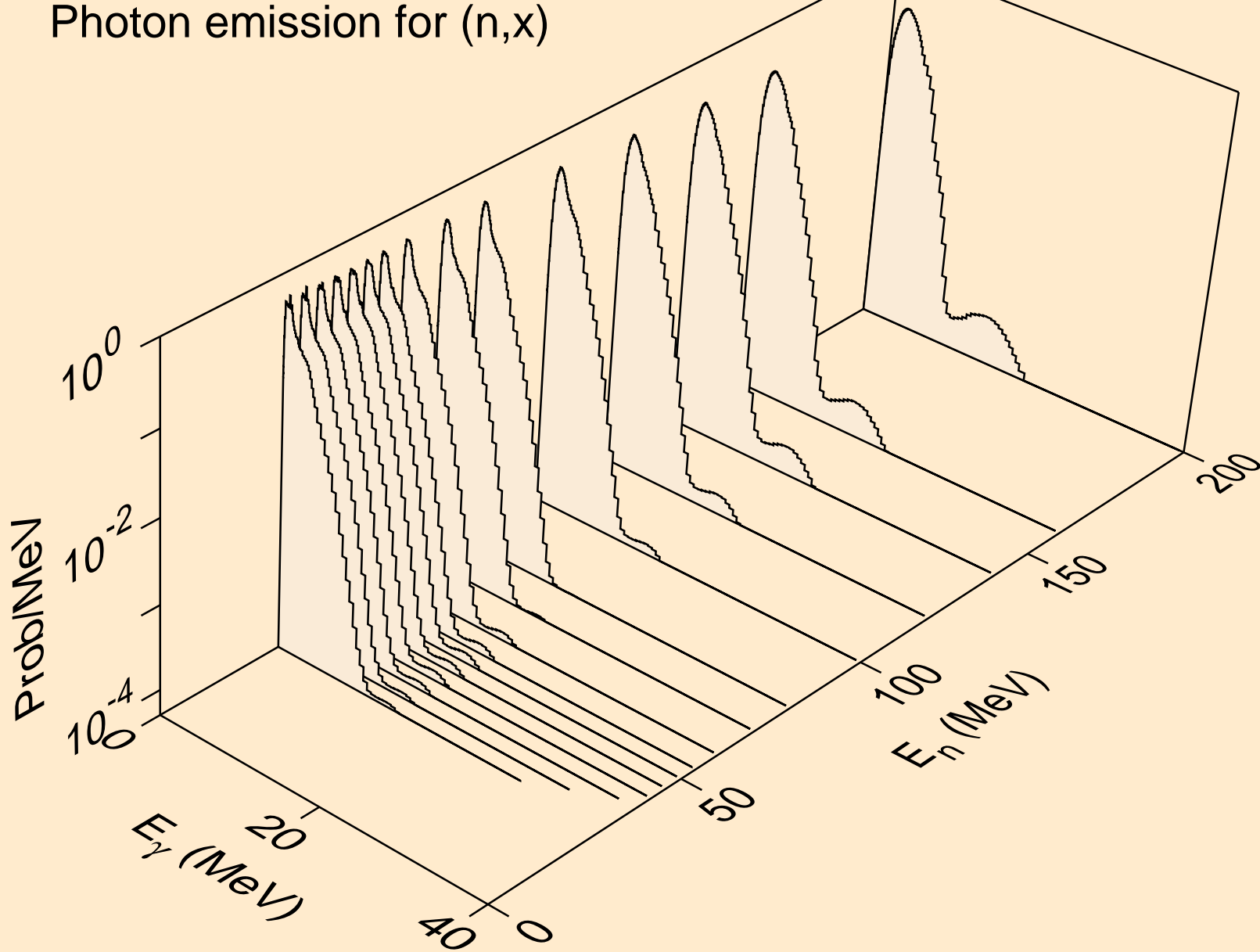
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



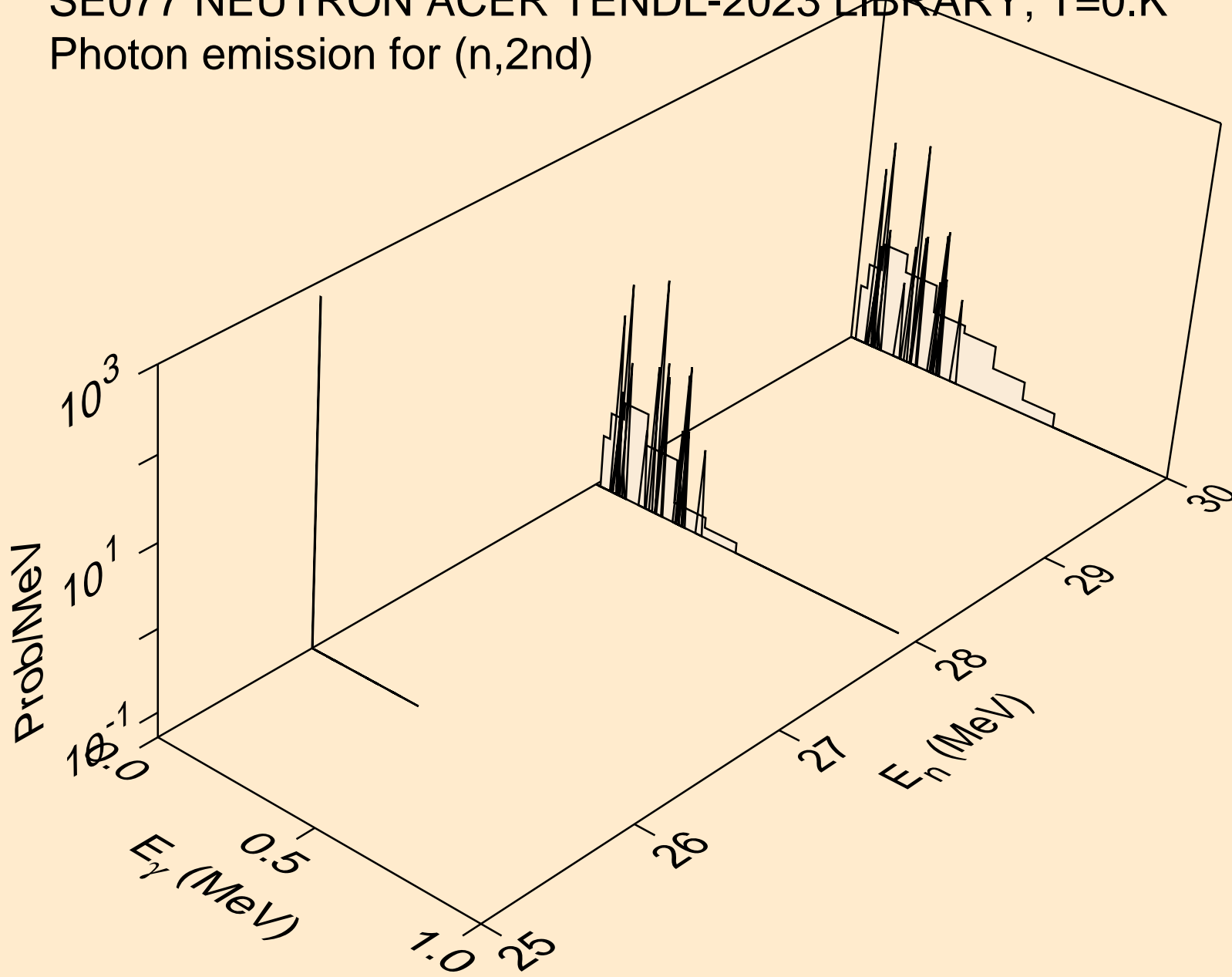
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



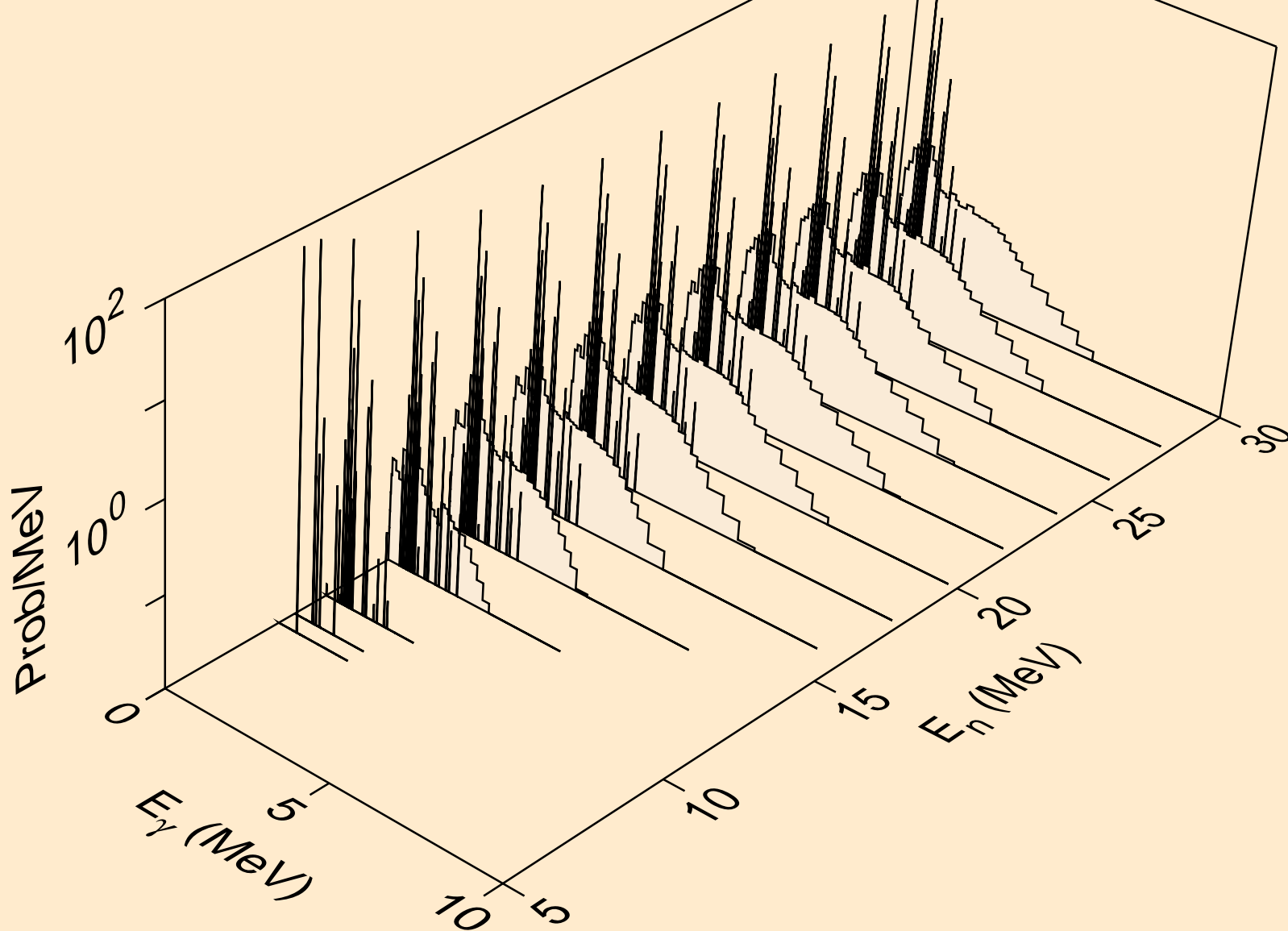
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



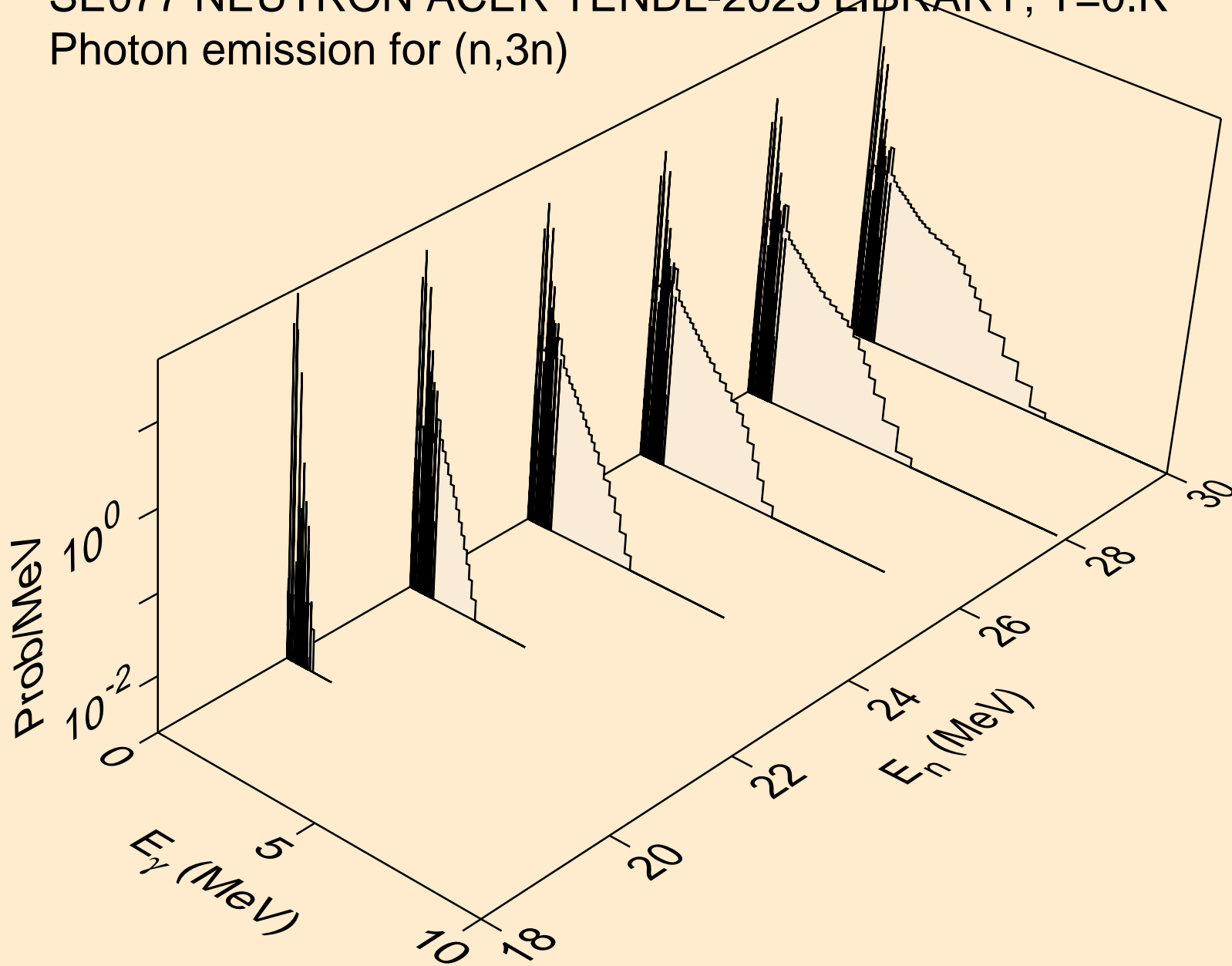
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Photon emission for (n,2nd)



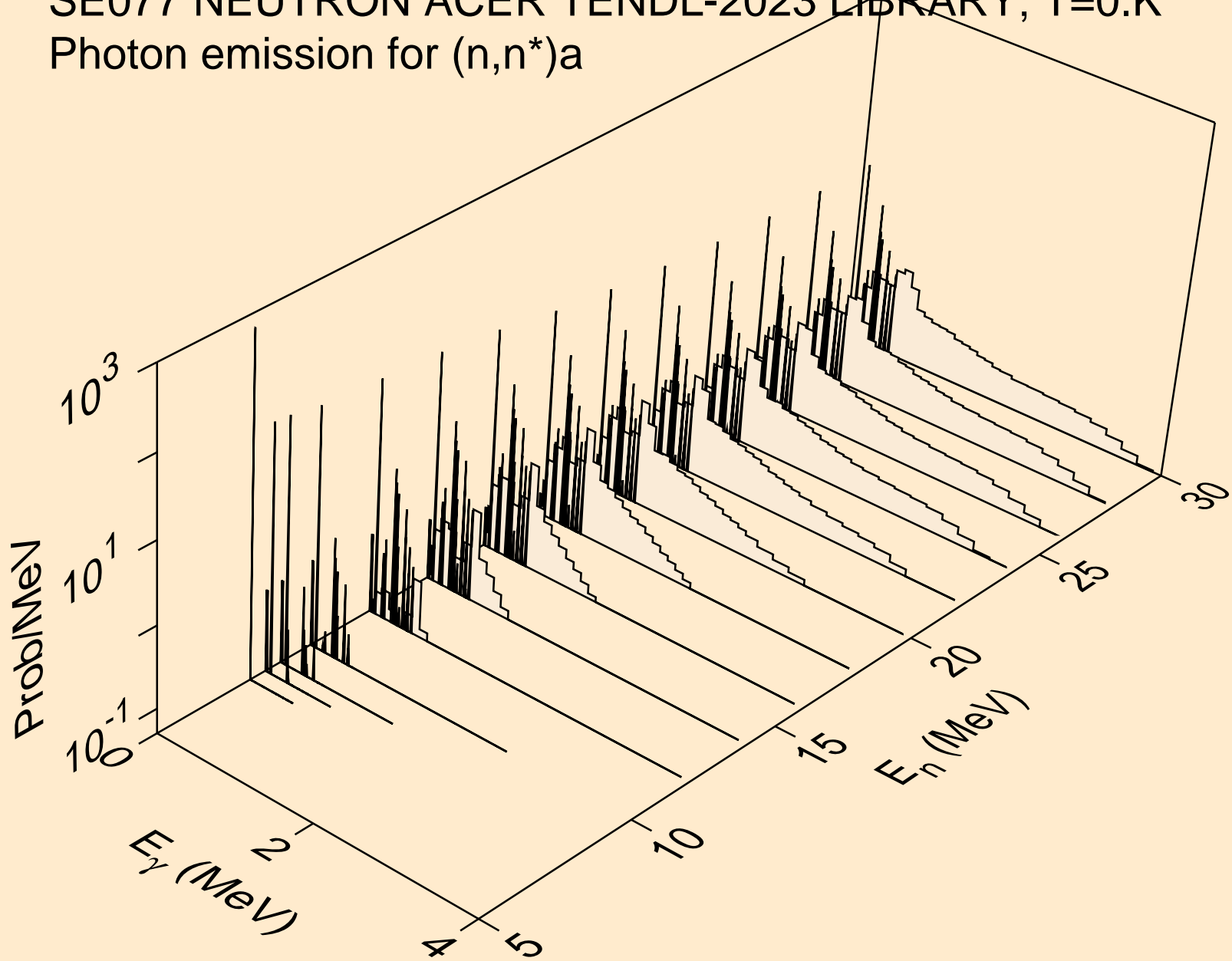
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

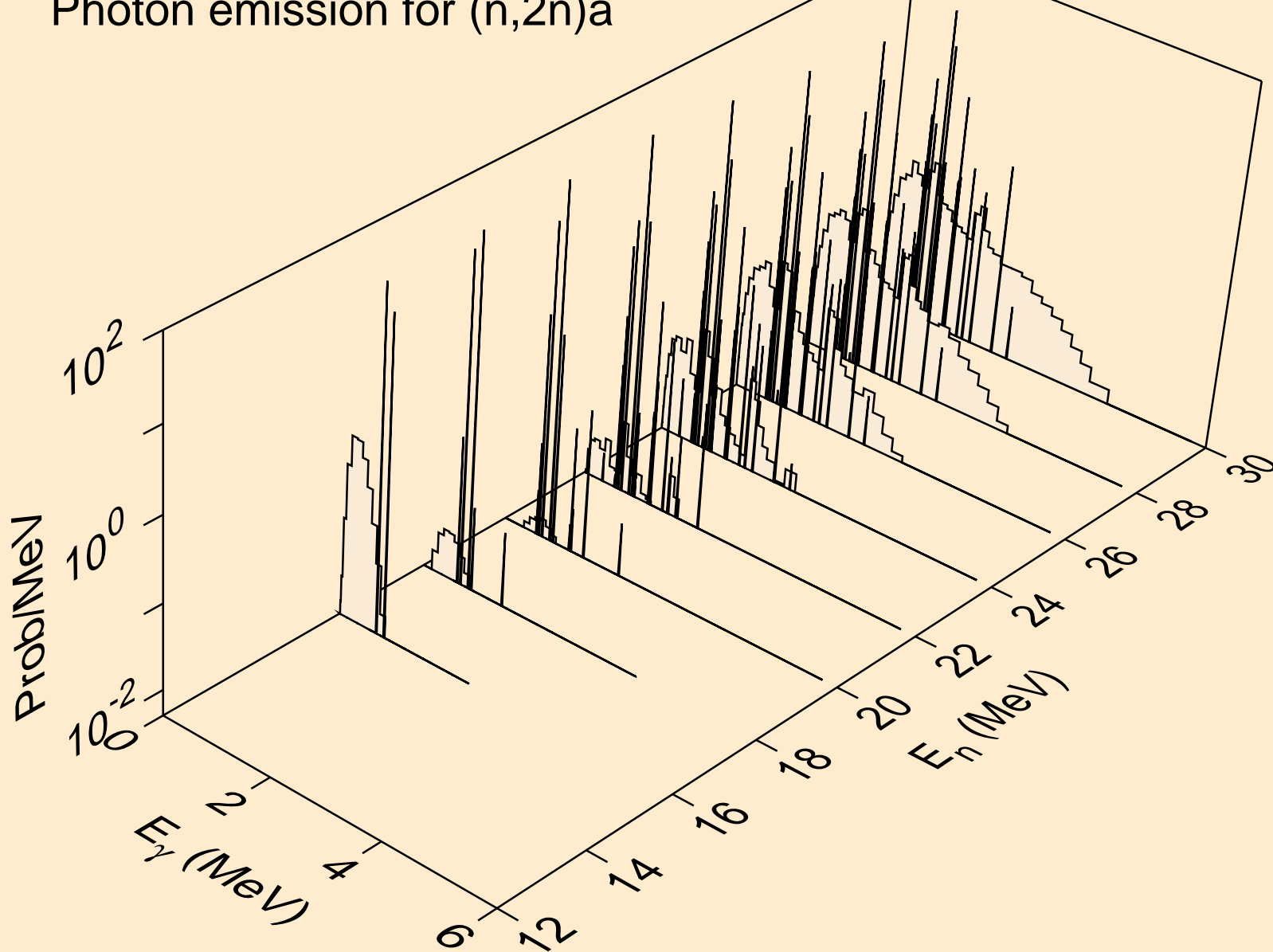


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

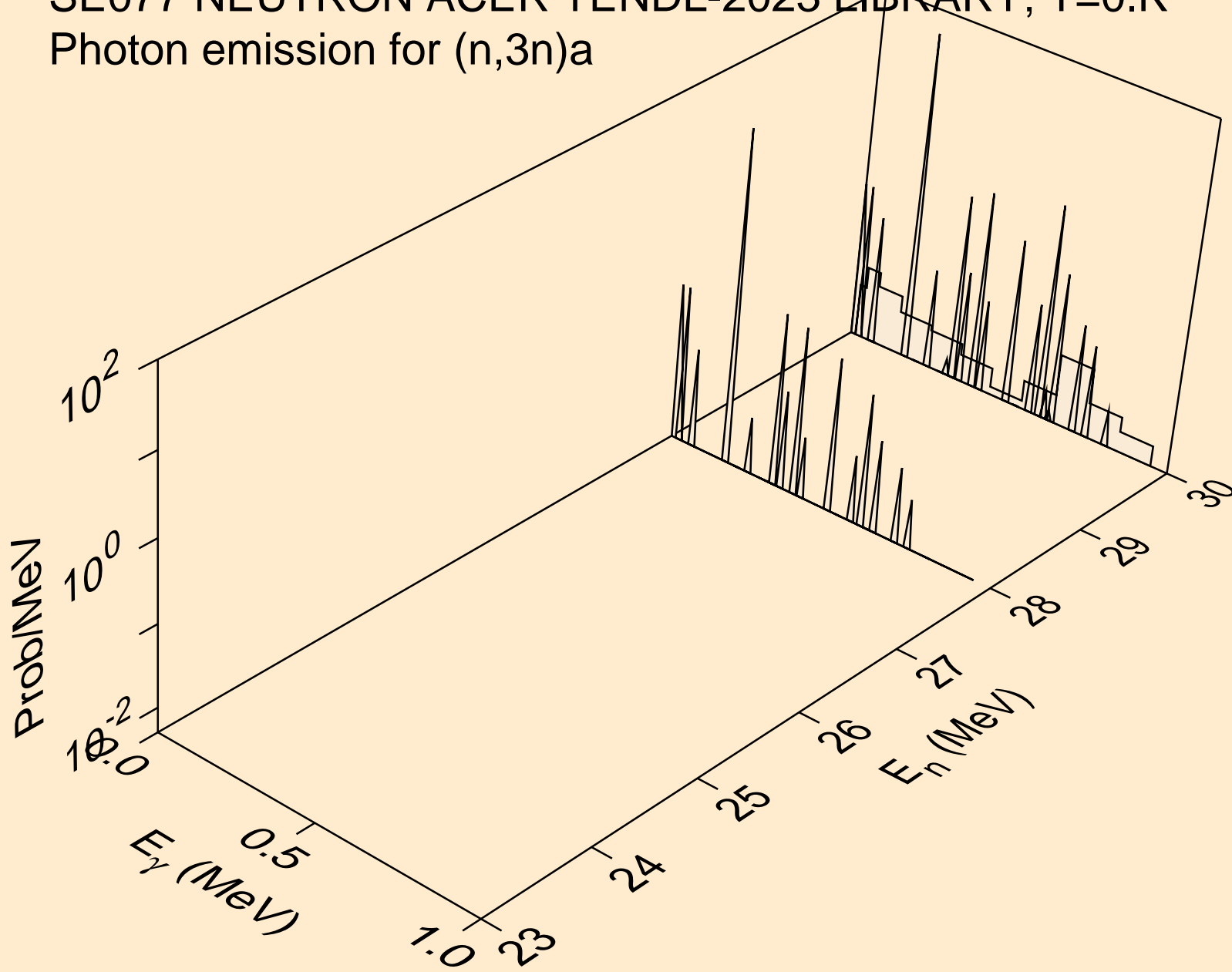




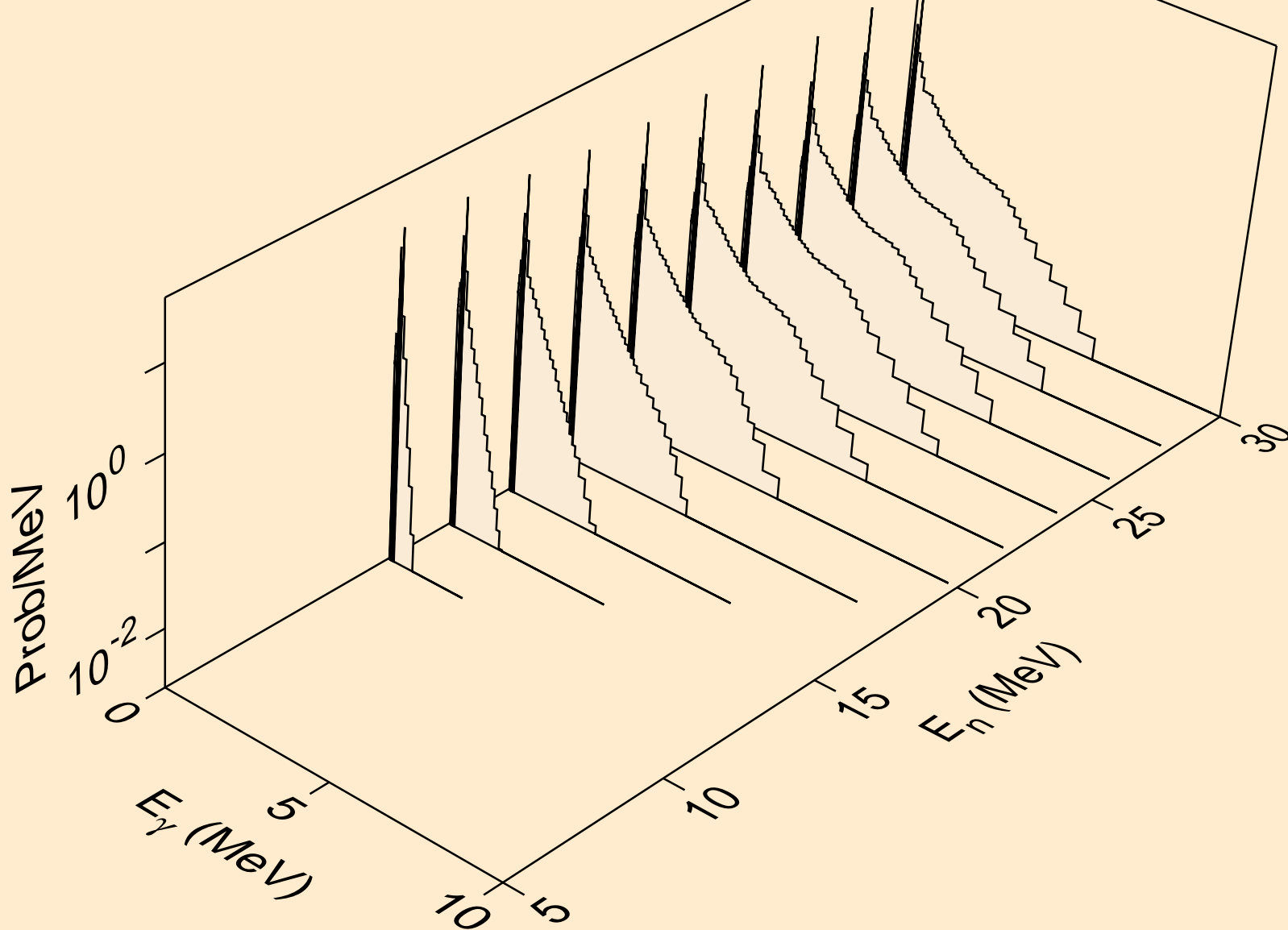
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



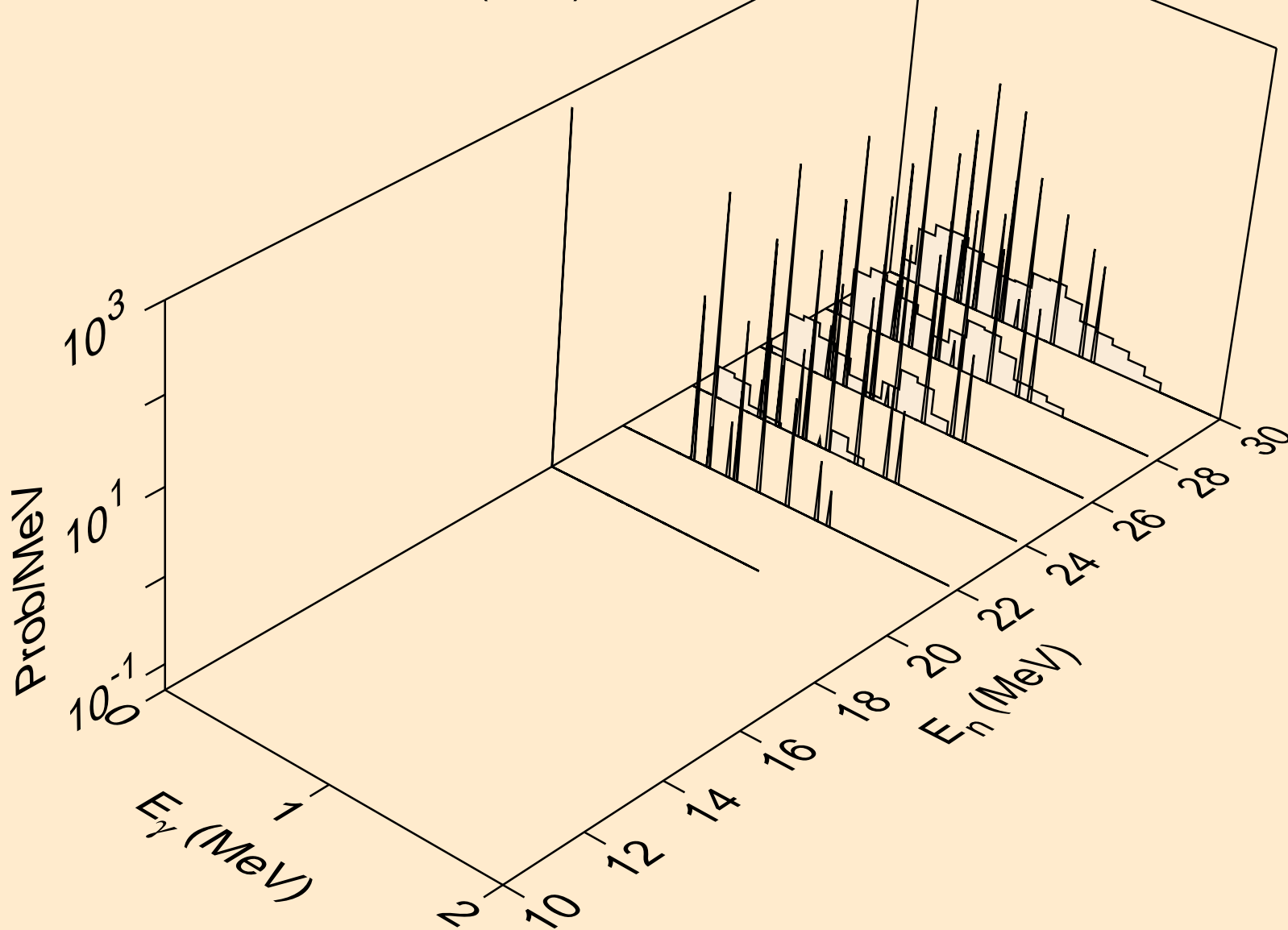
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



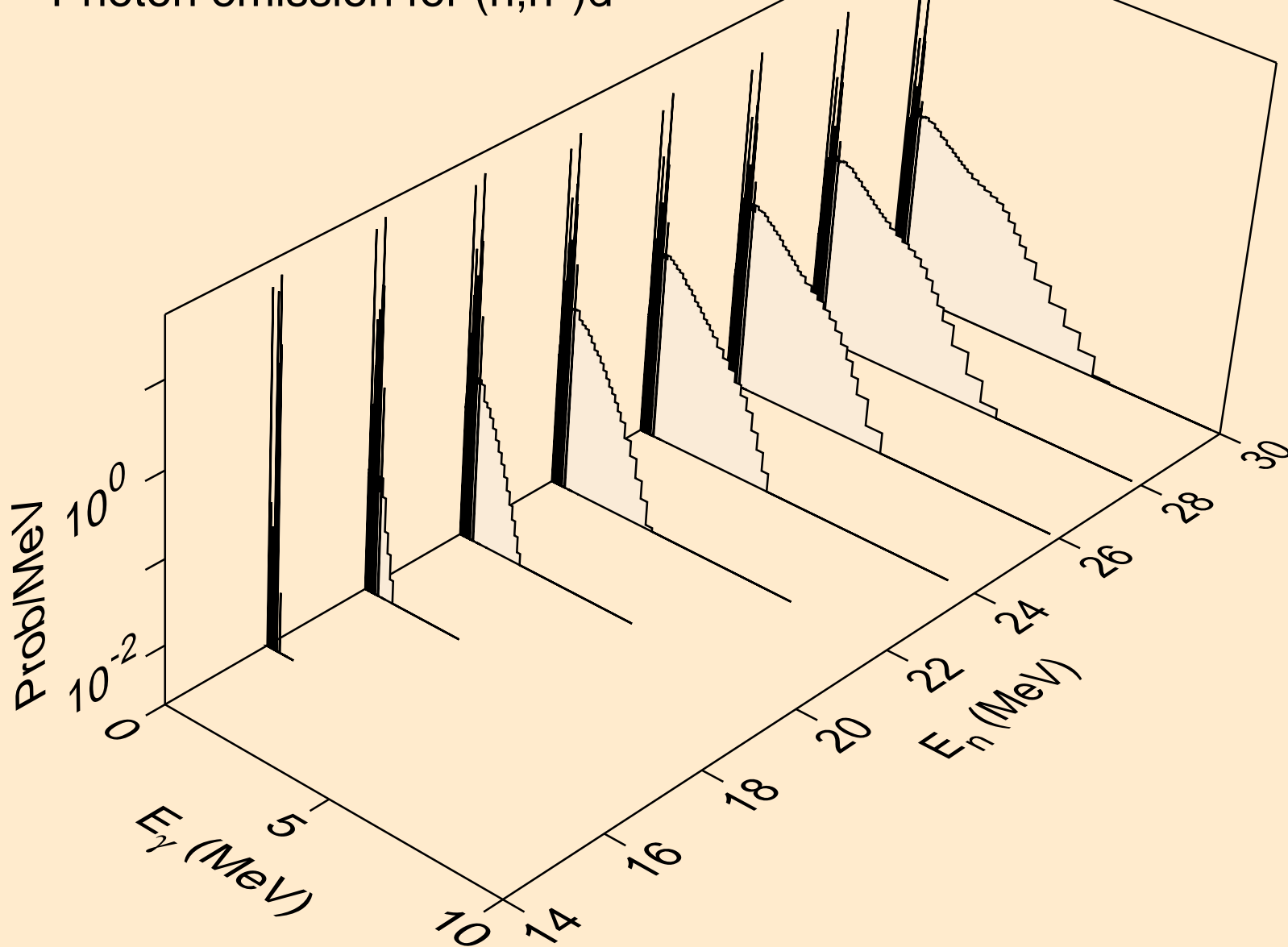
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



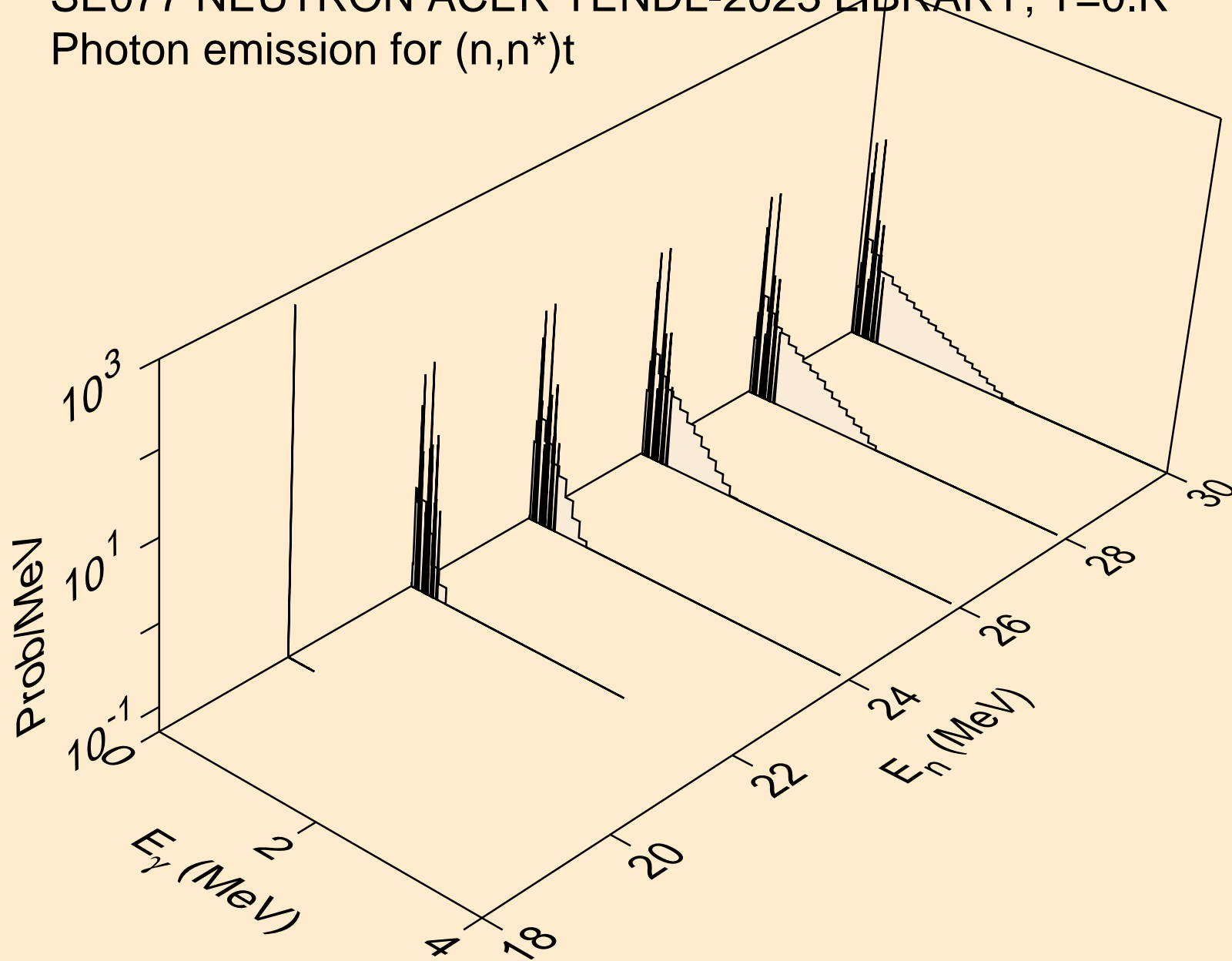
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



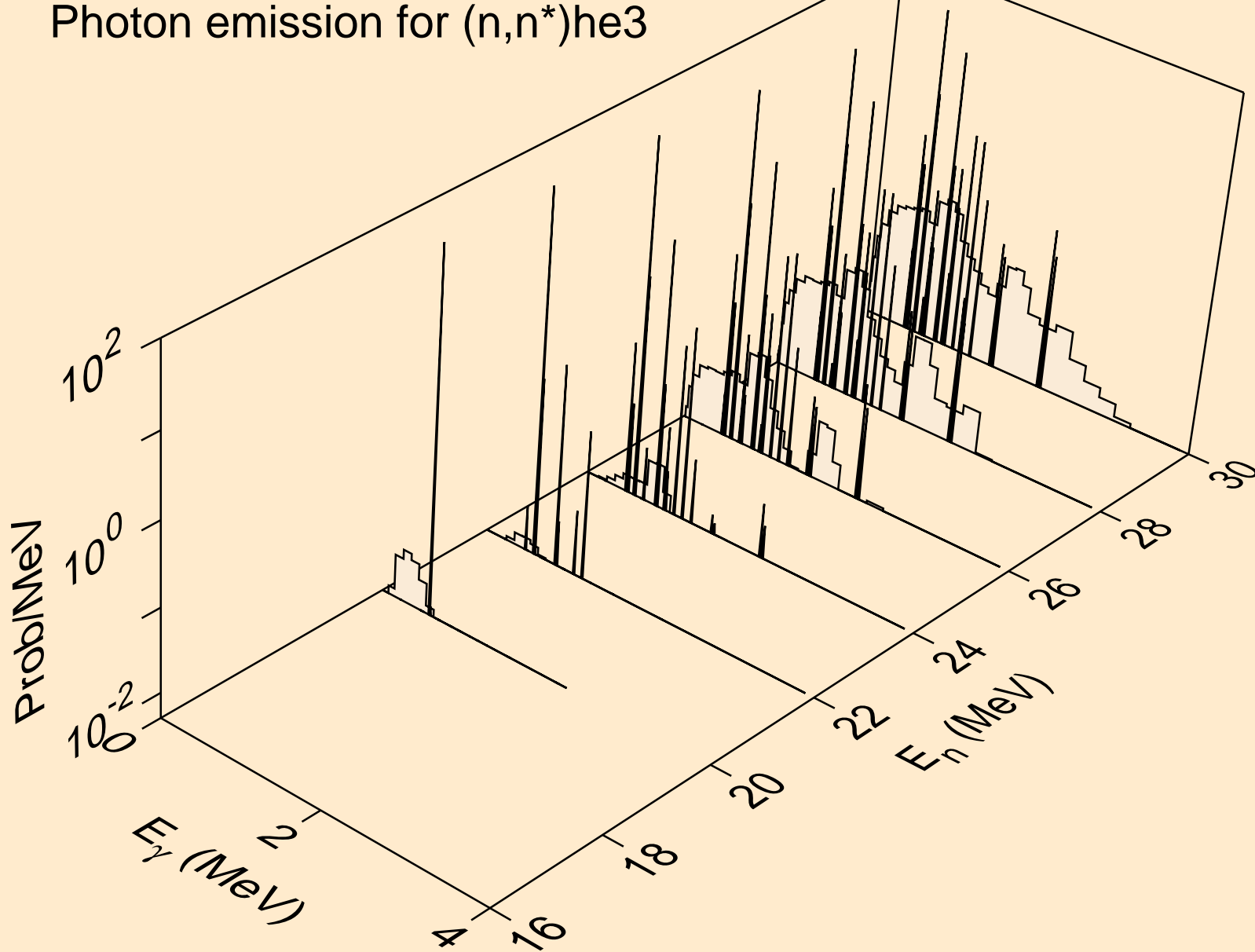
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



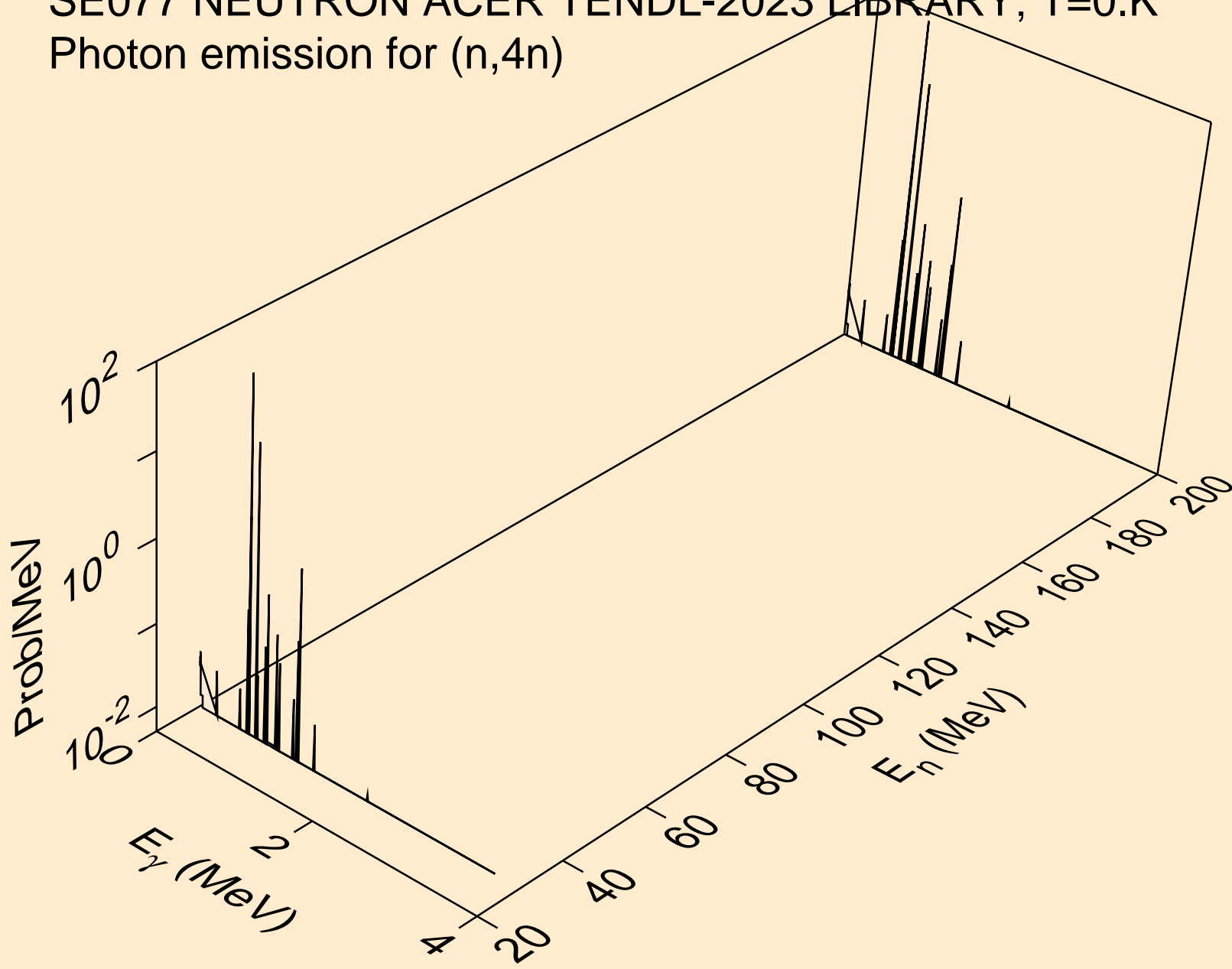
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

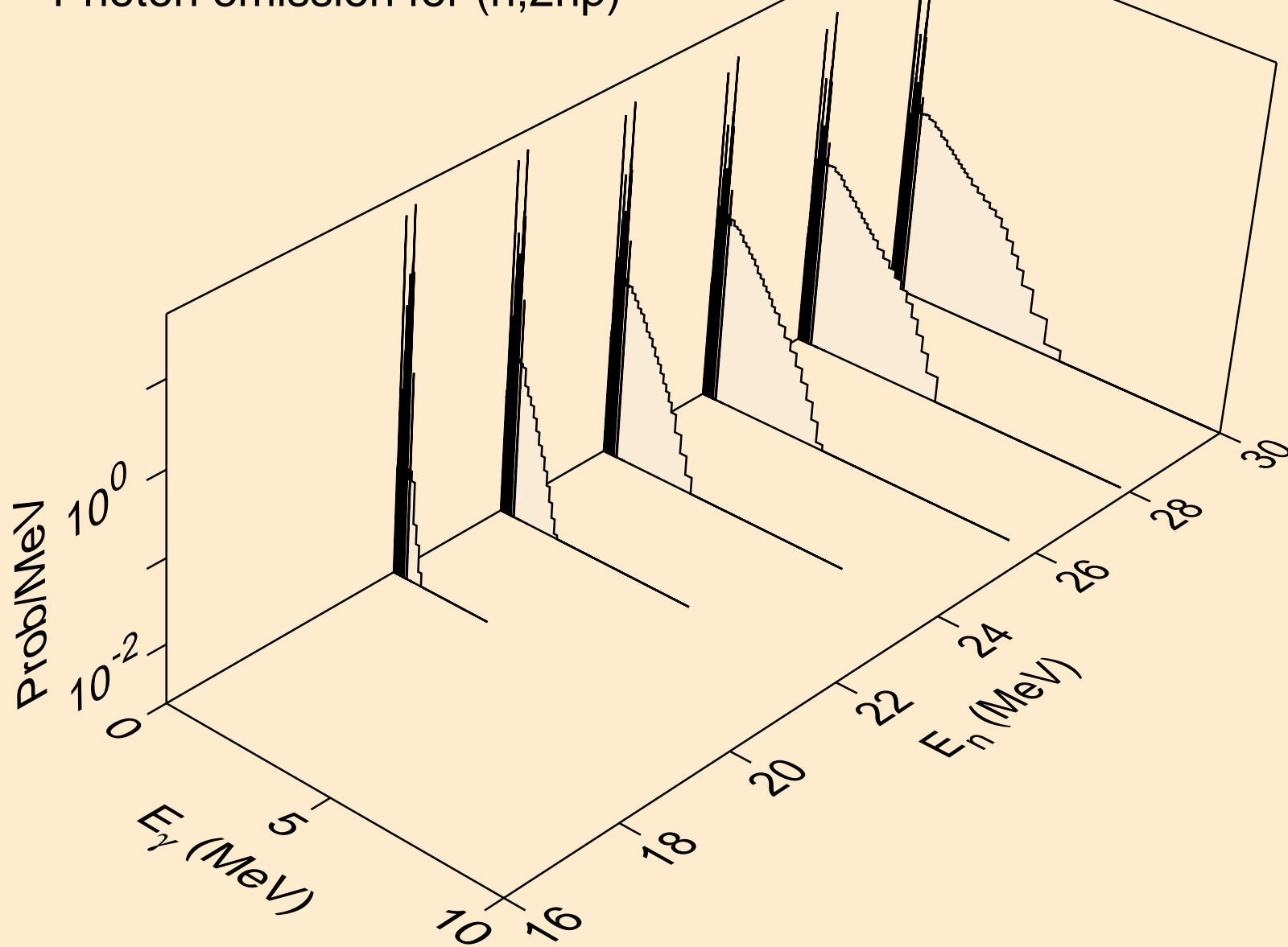


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)

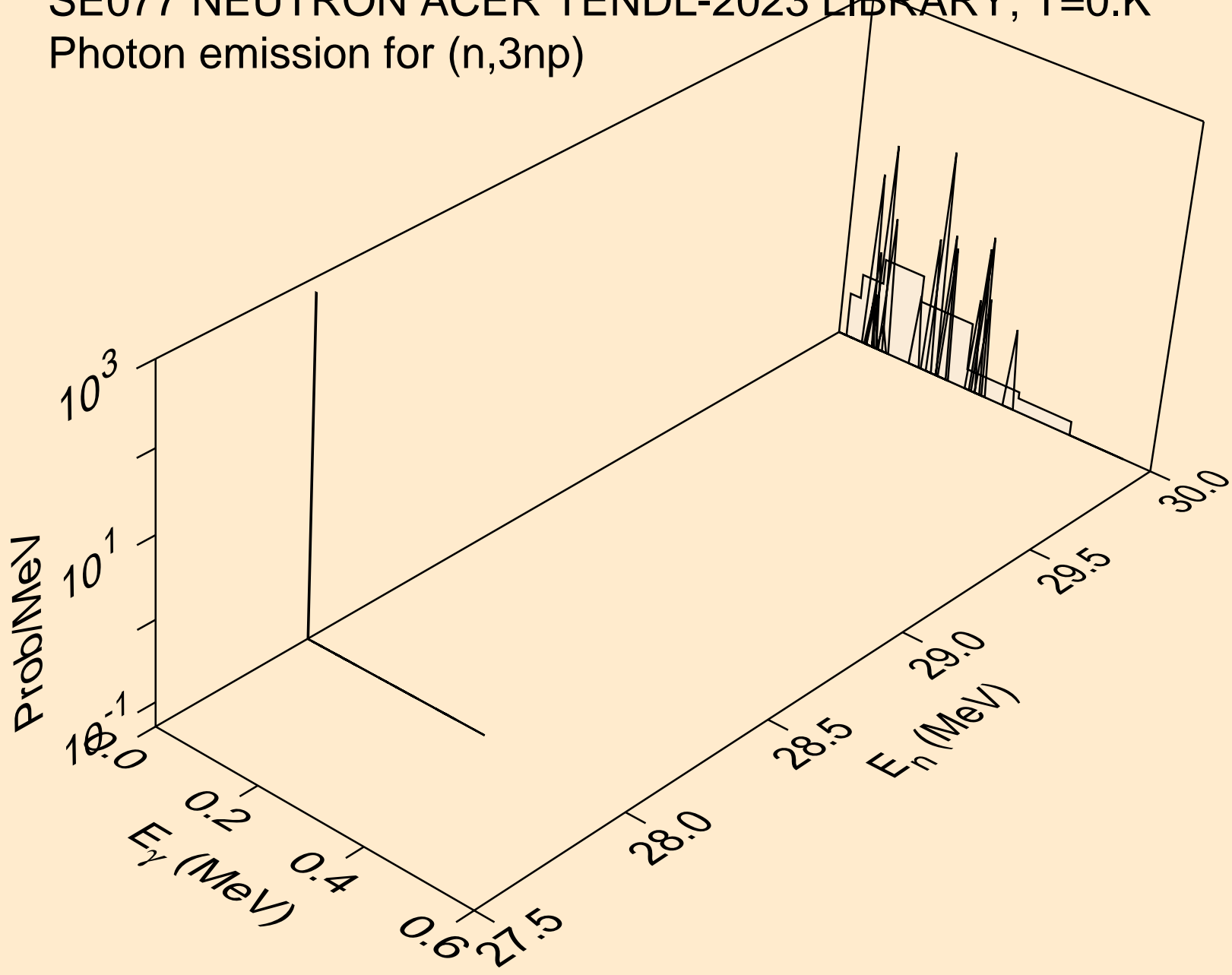




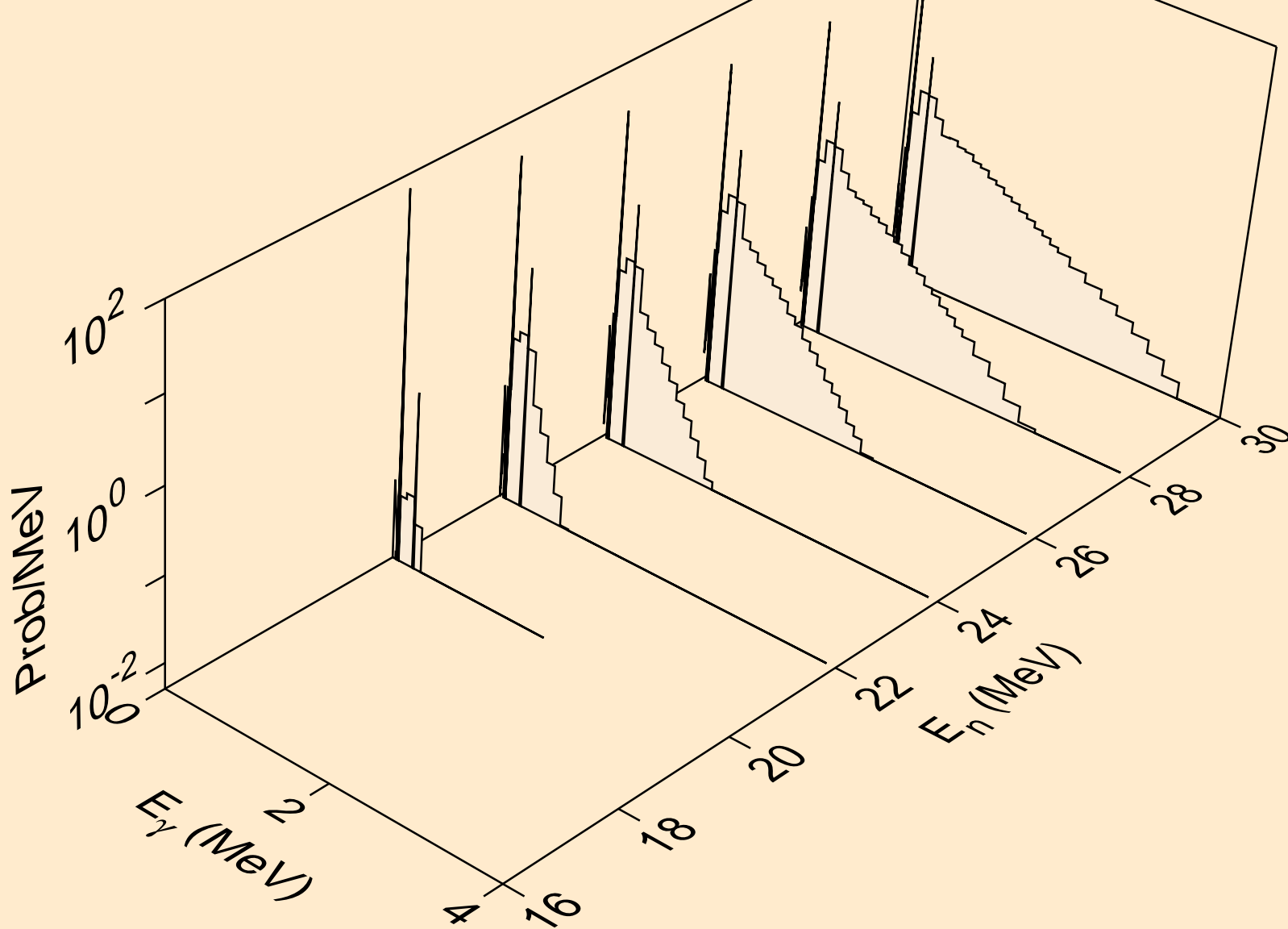
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



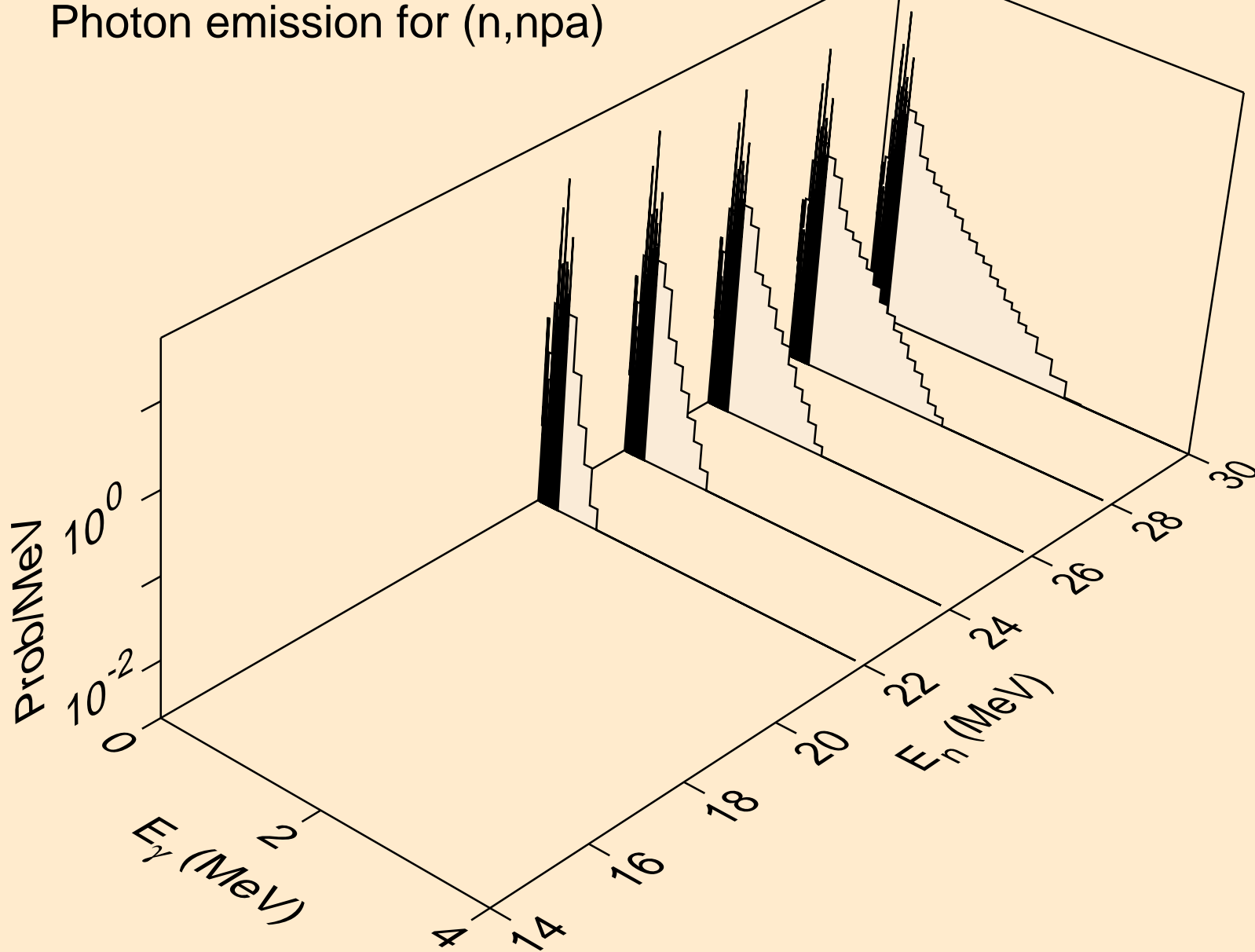
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Photon emission for (n,3np)



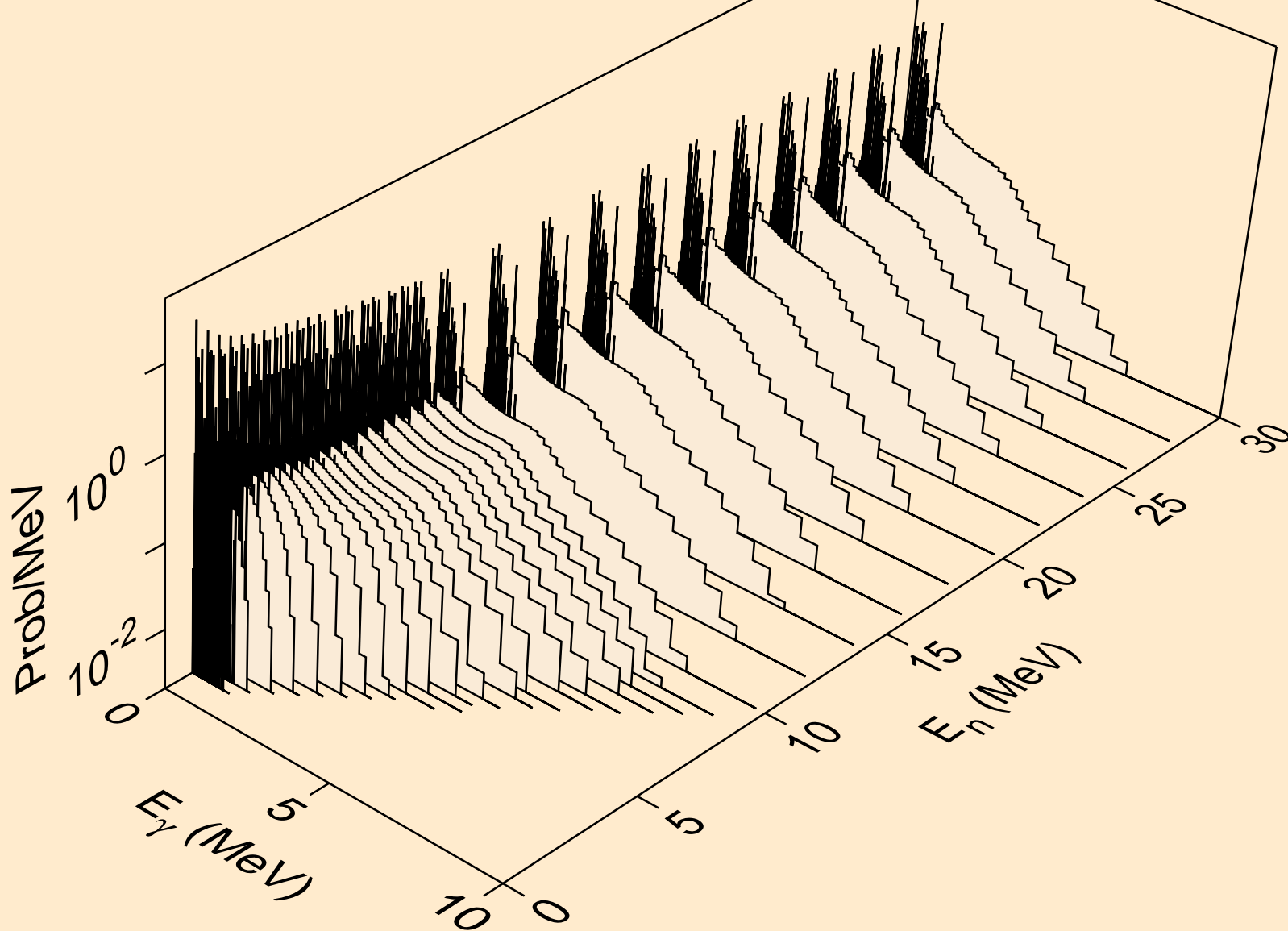
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Photon emission for (n,n2p)



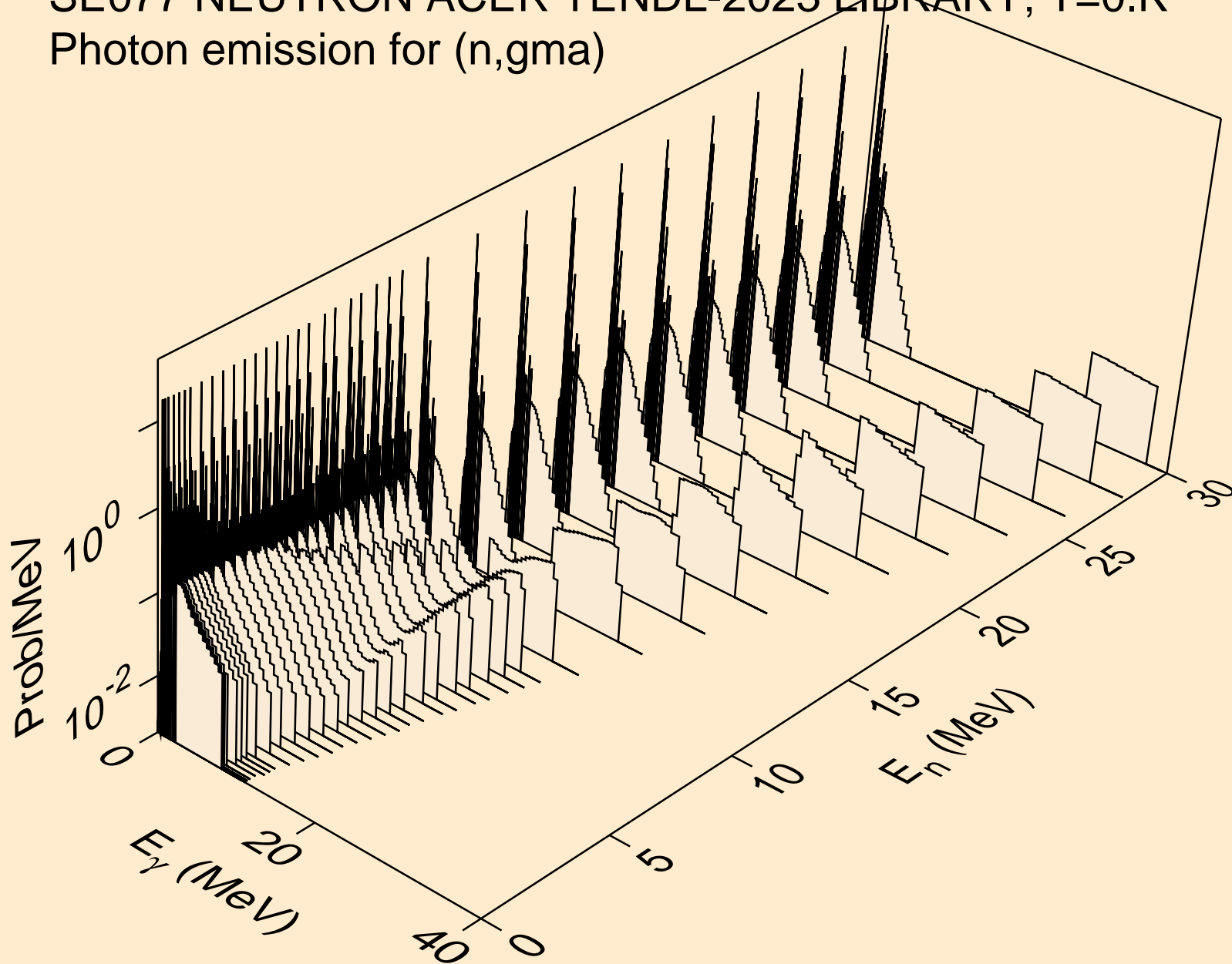
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



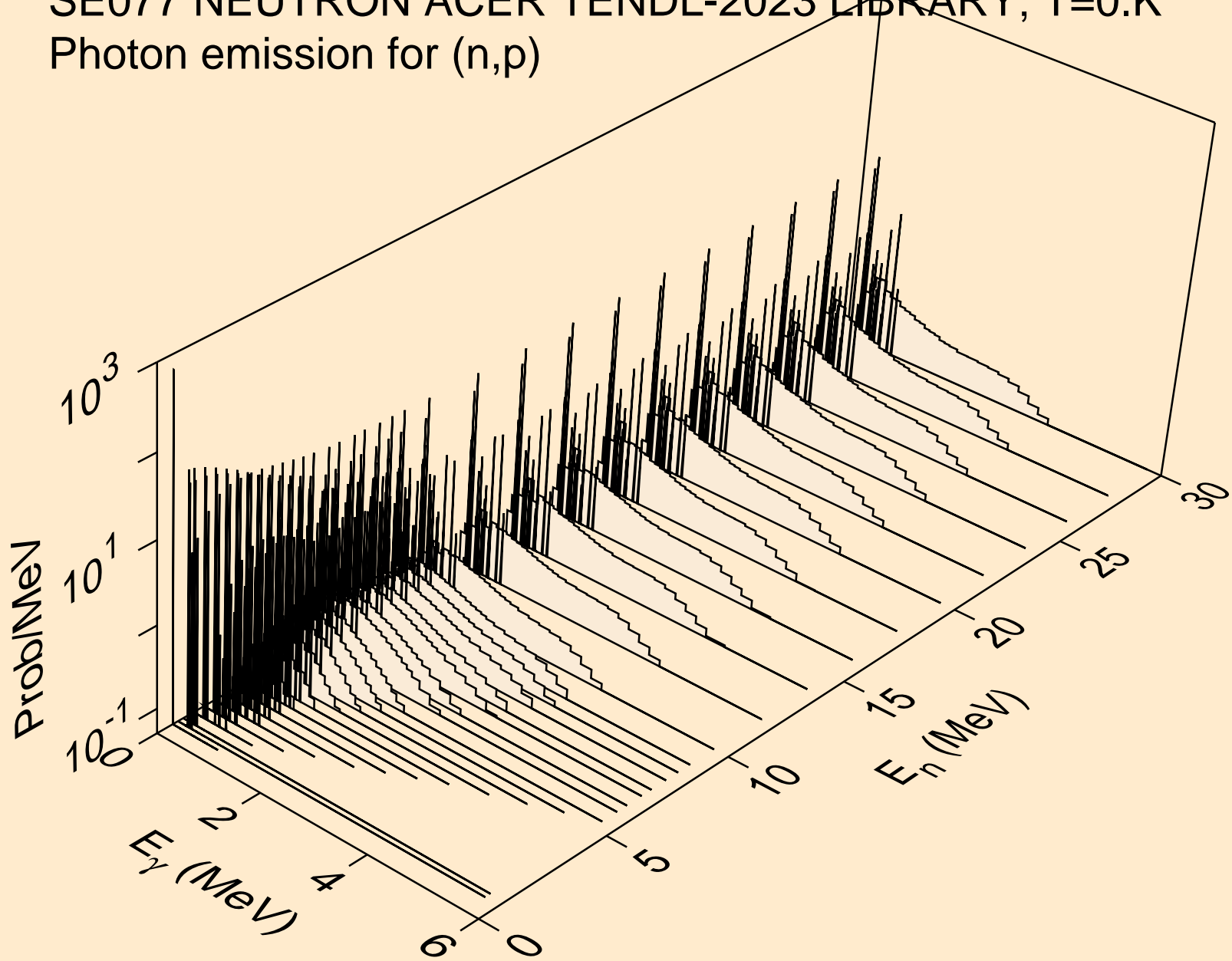
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Photon emission for (n,n\*c)



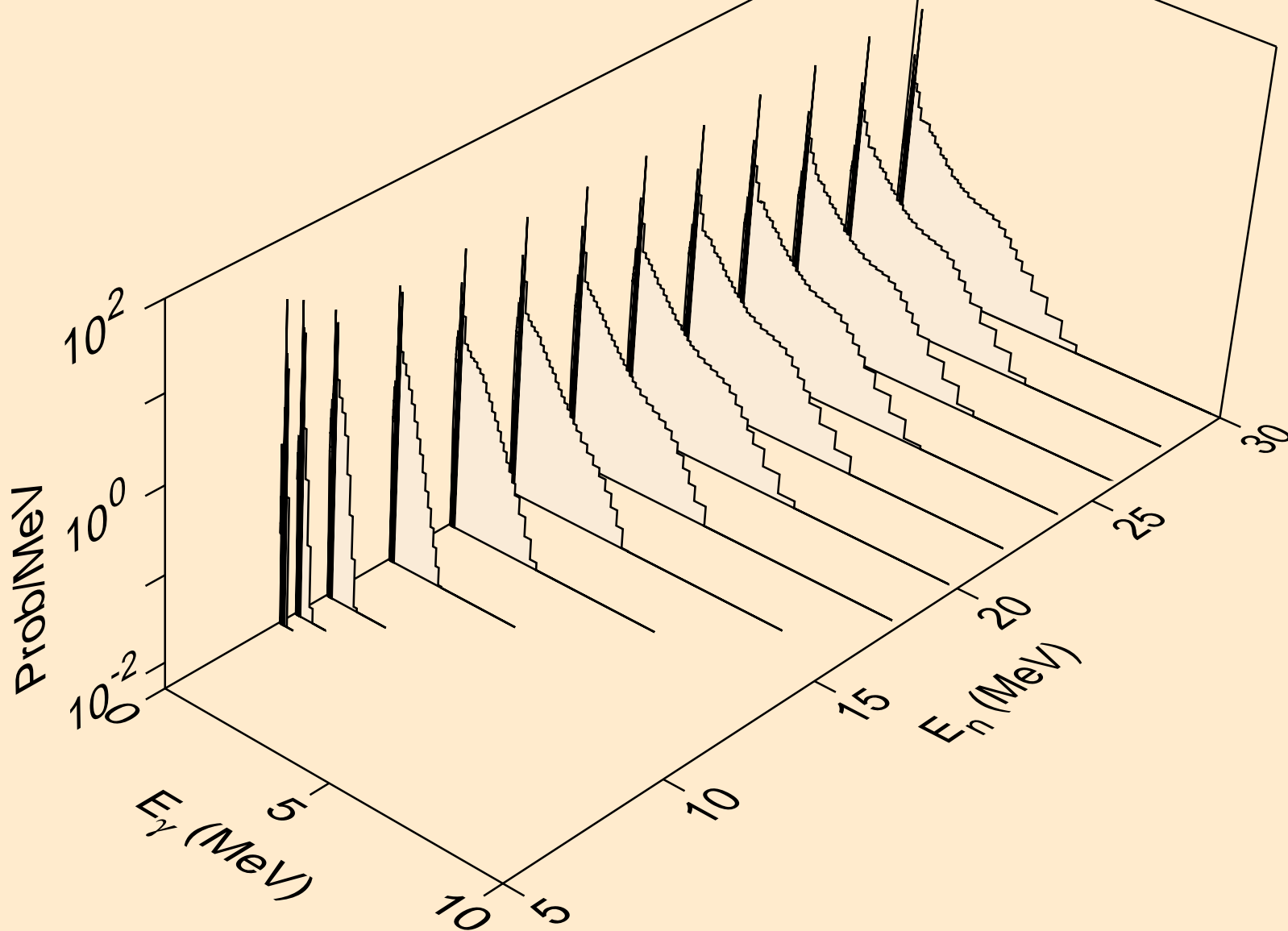
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

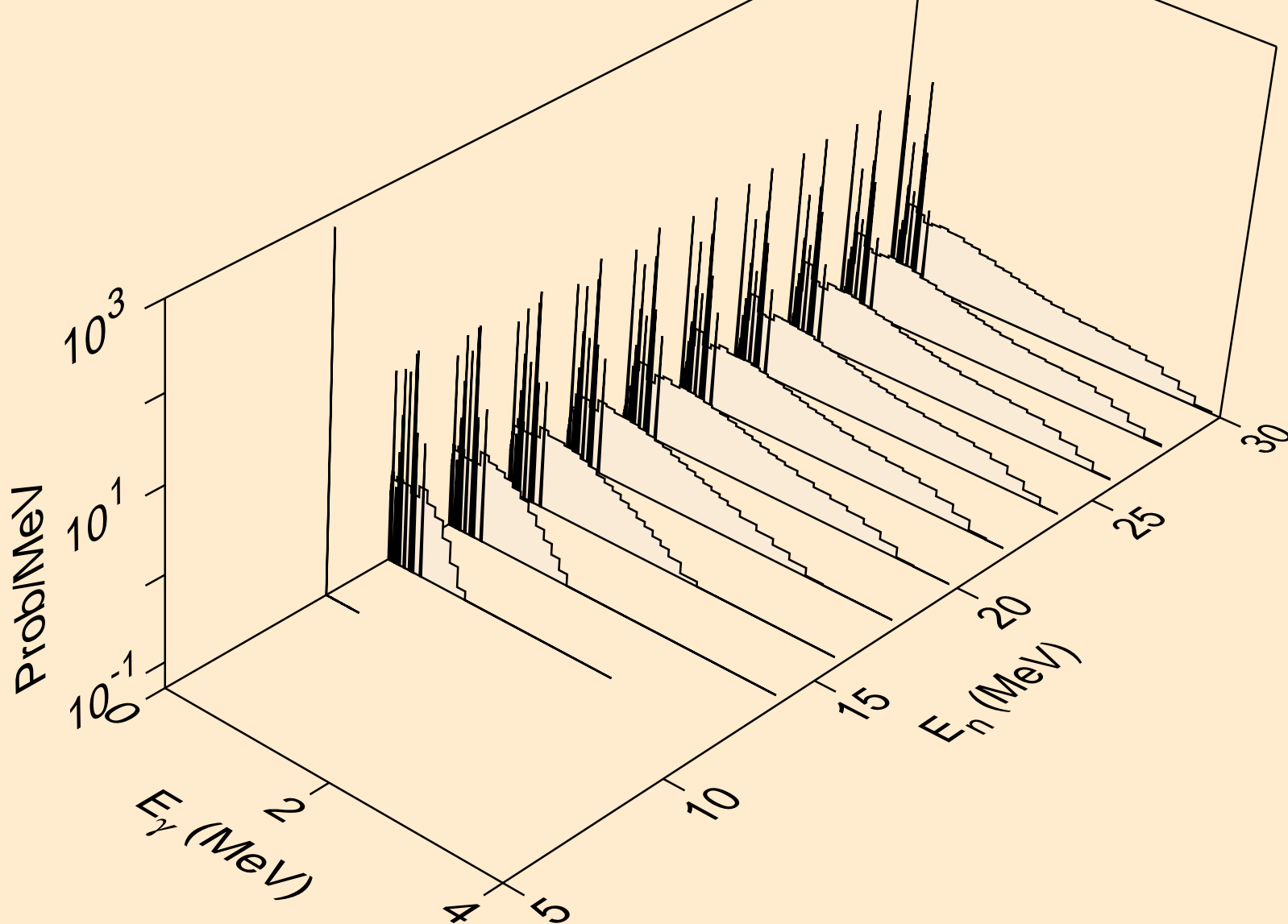


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Photon emission for (n,d)

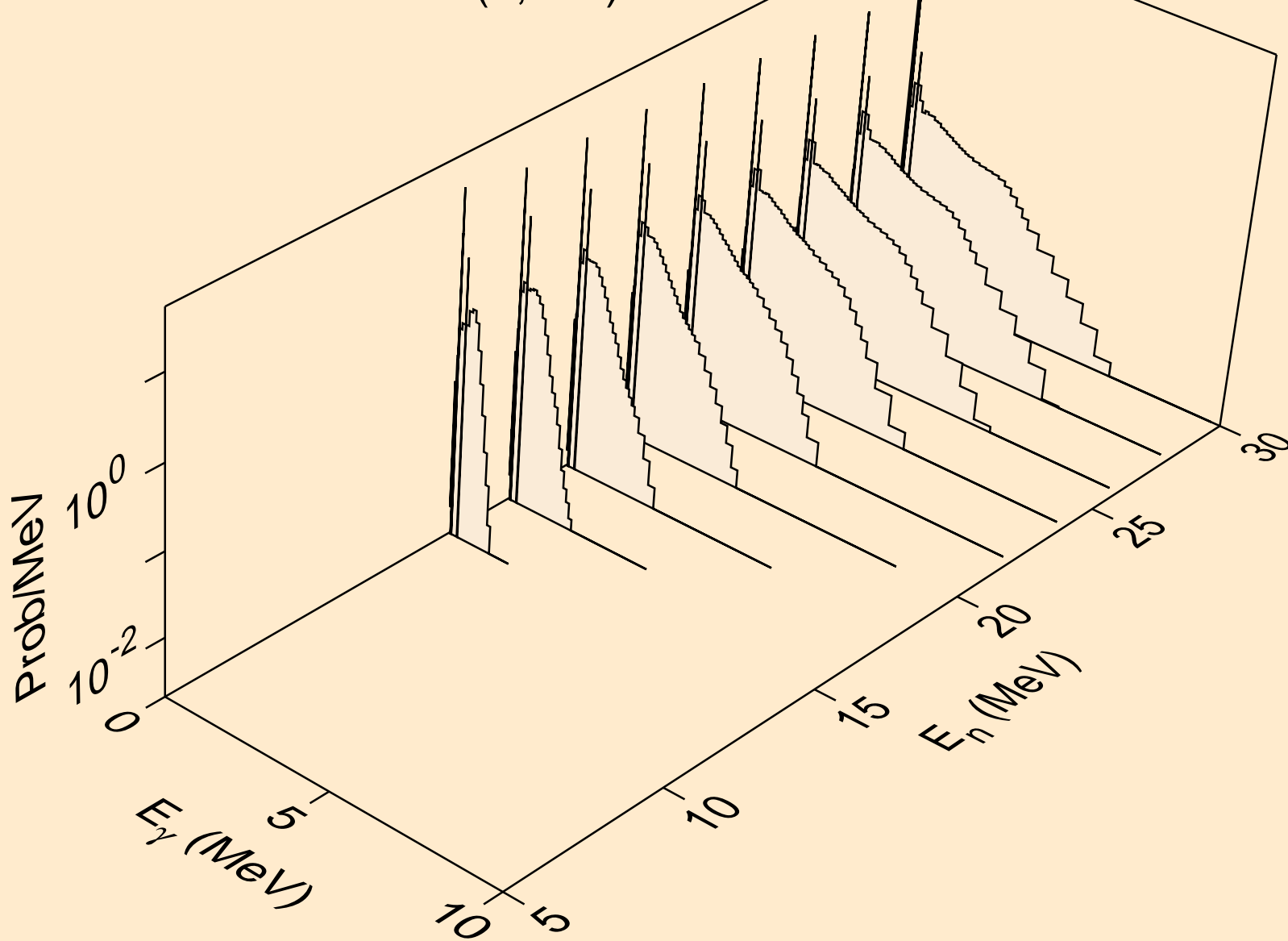




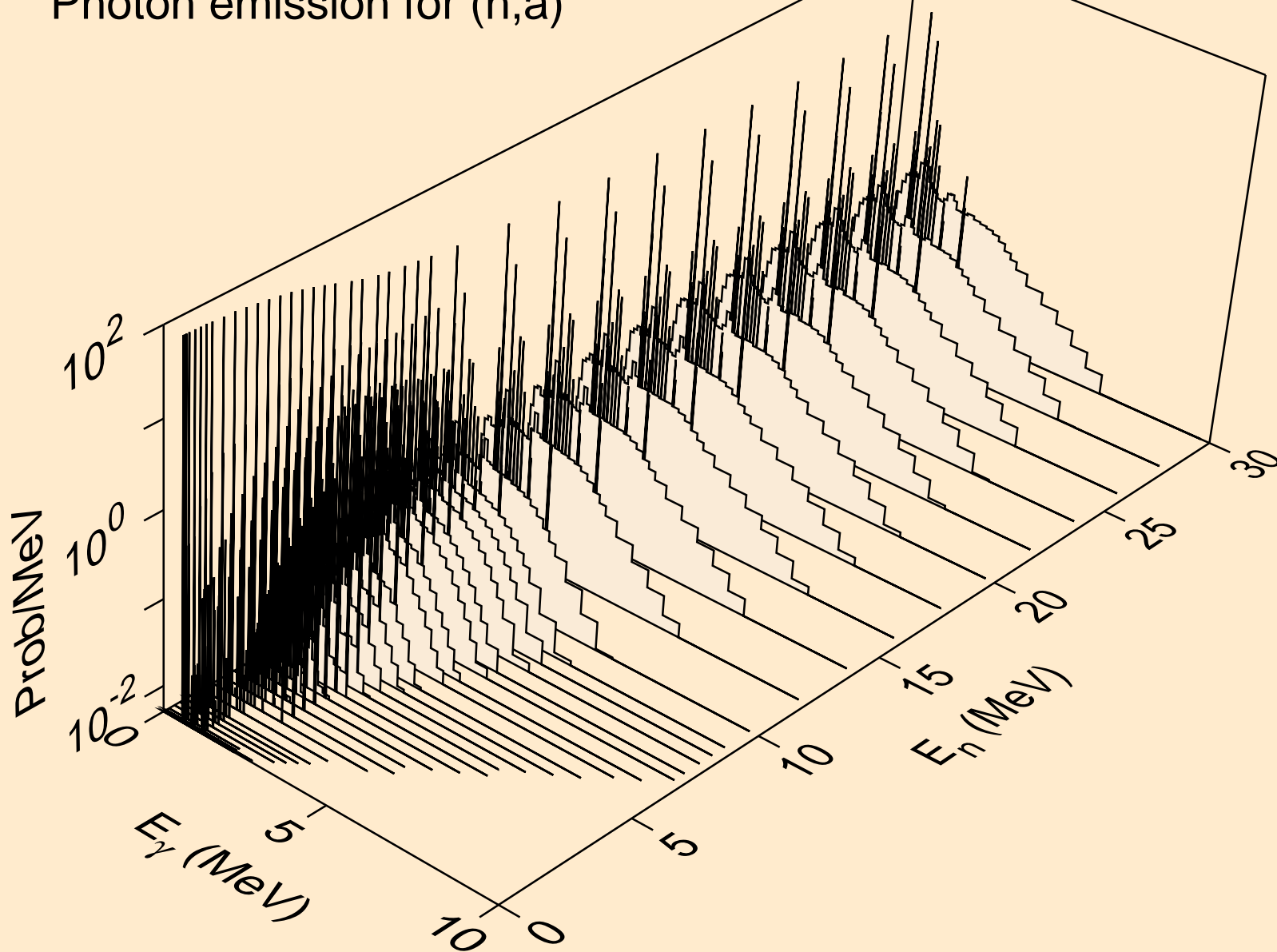
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Photon emission for (n,t)



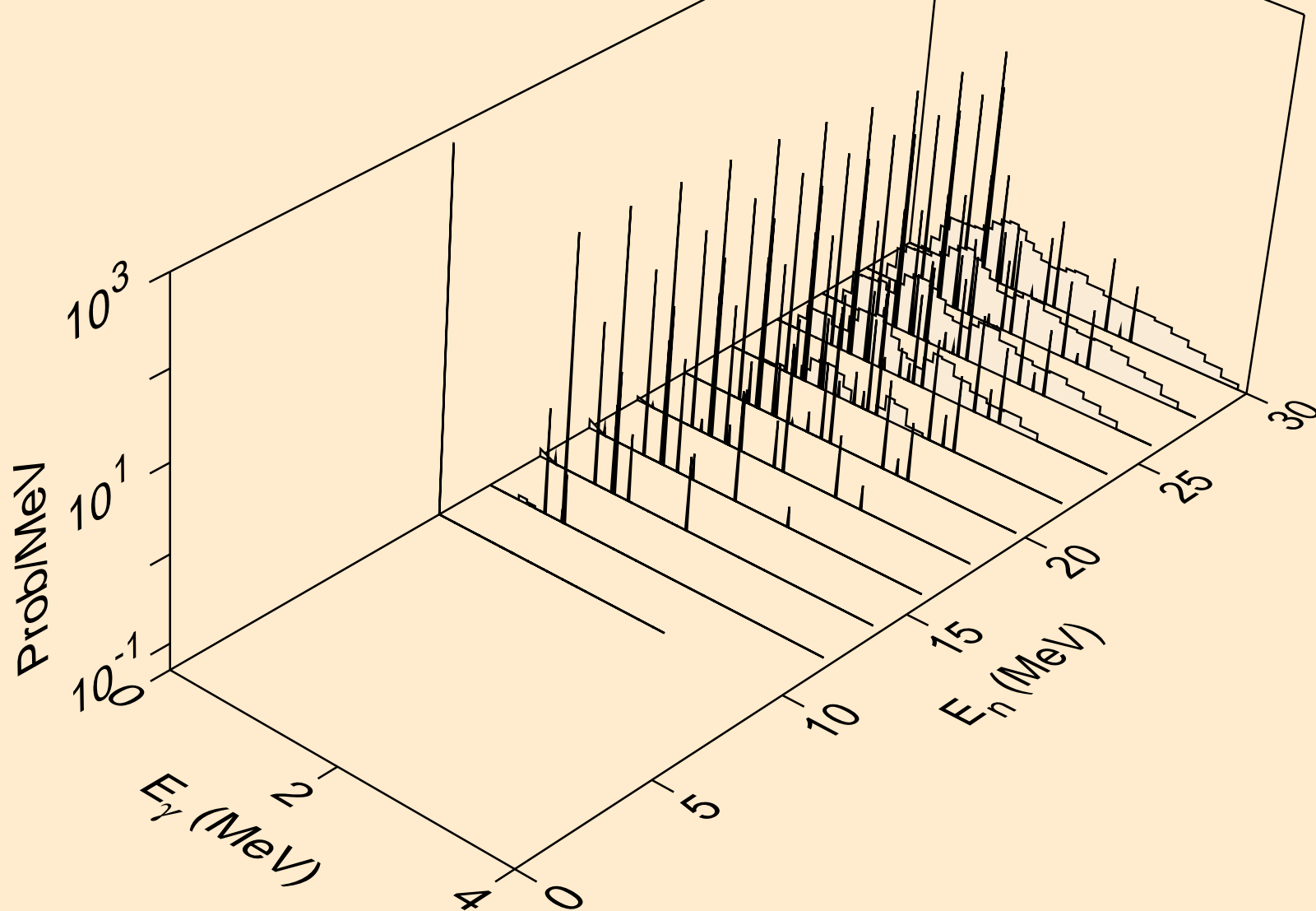
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



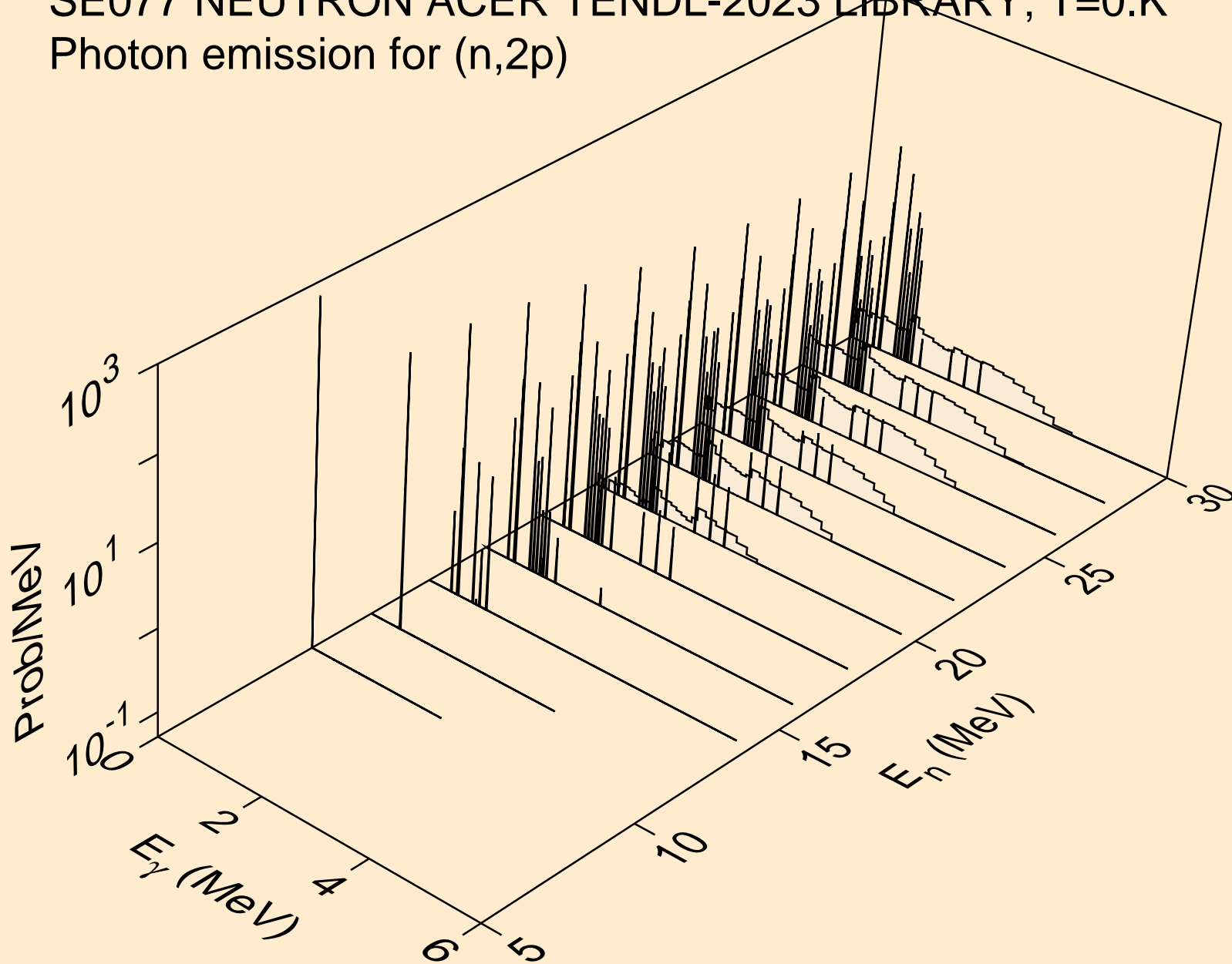
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Photon emission for (n,a)



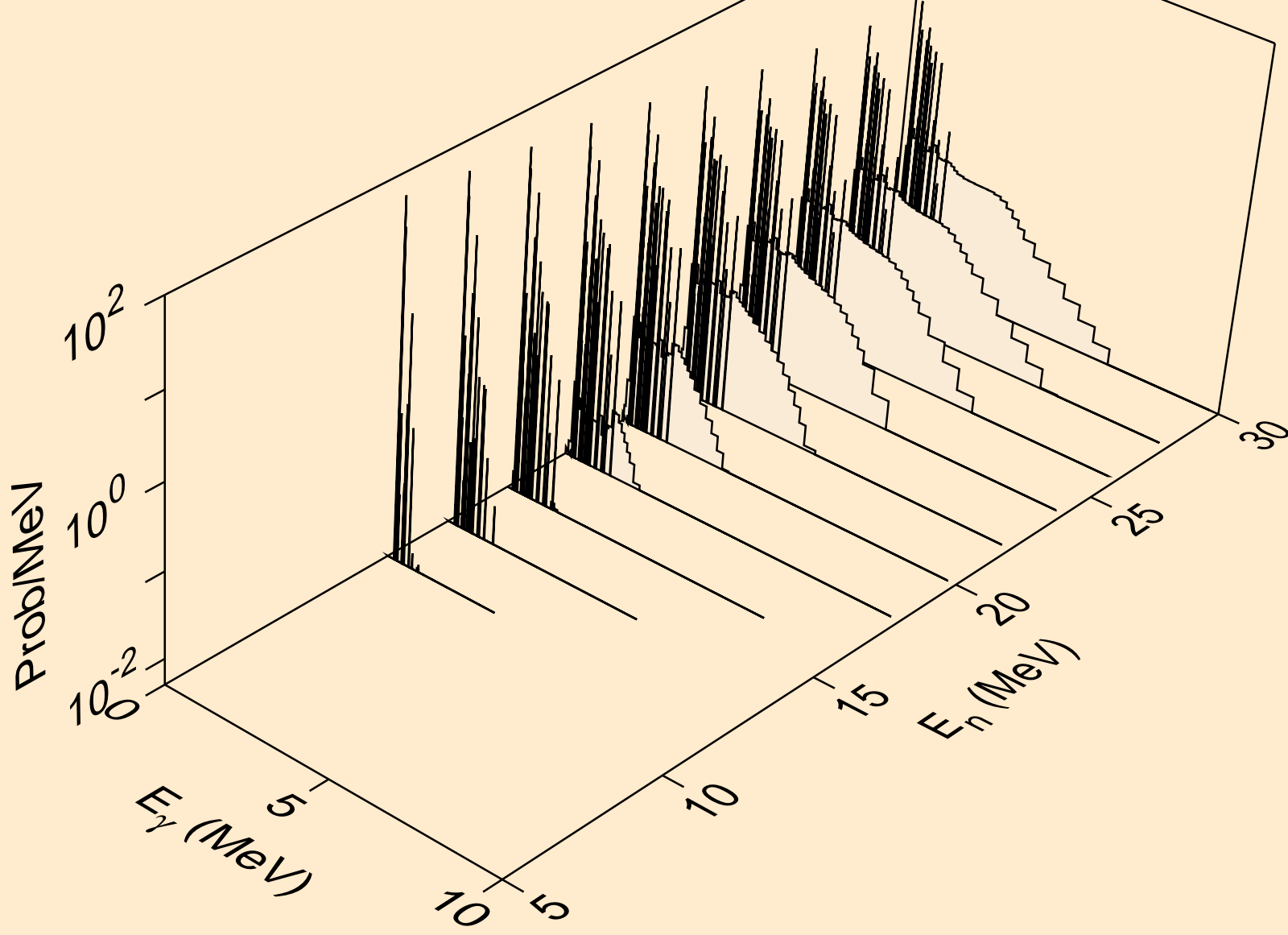
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



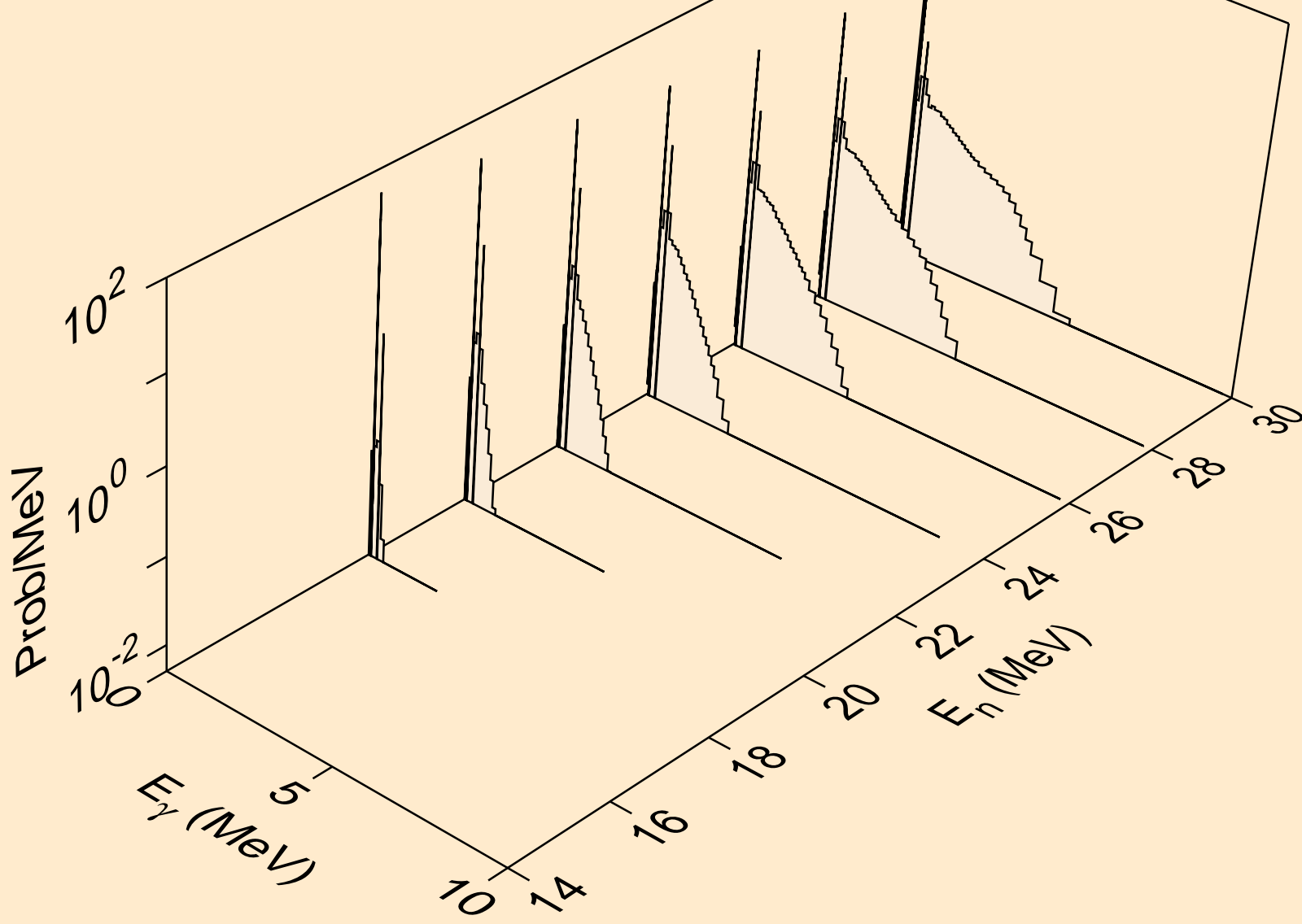
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Photon emission for (n,2p)



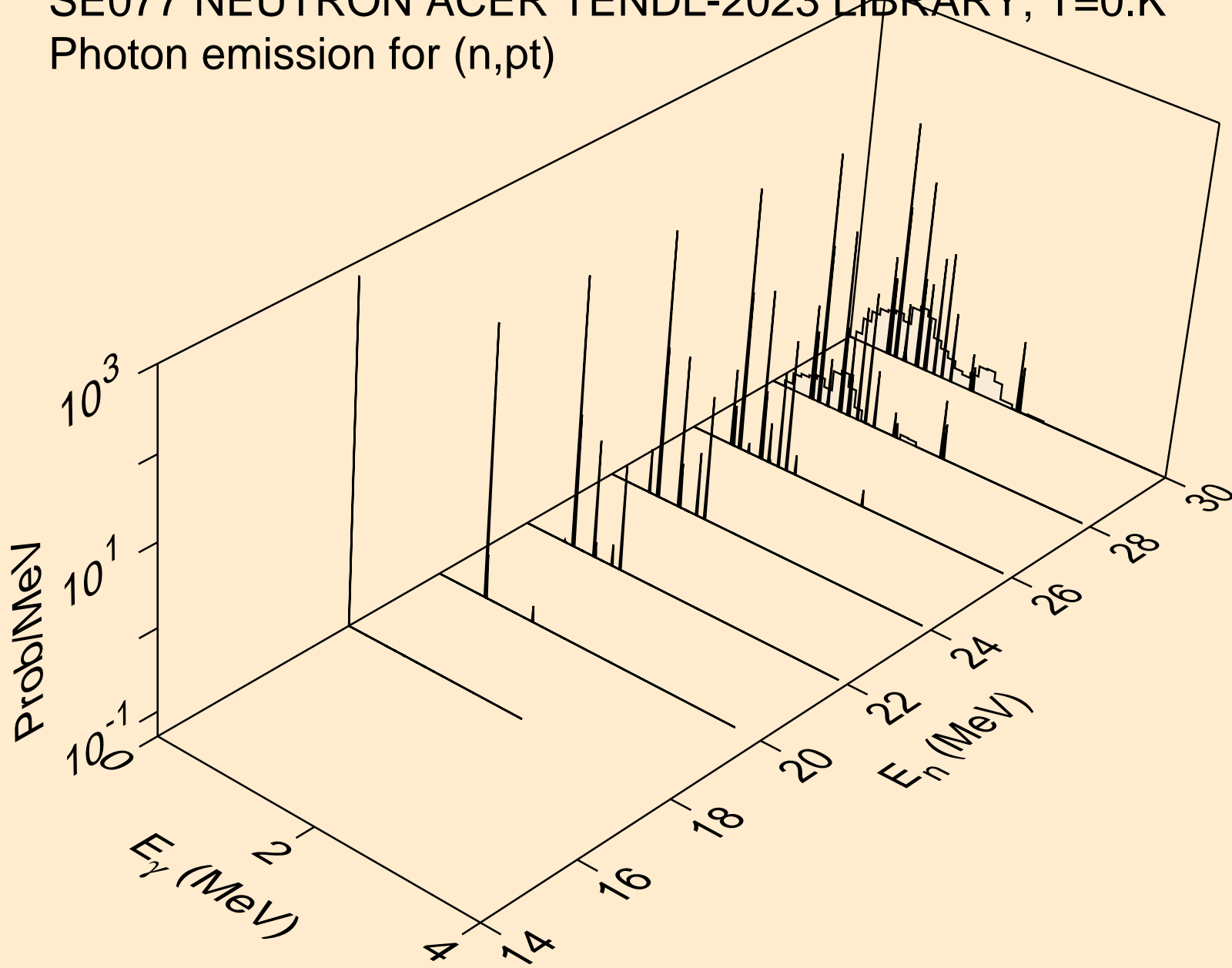
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

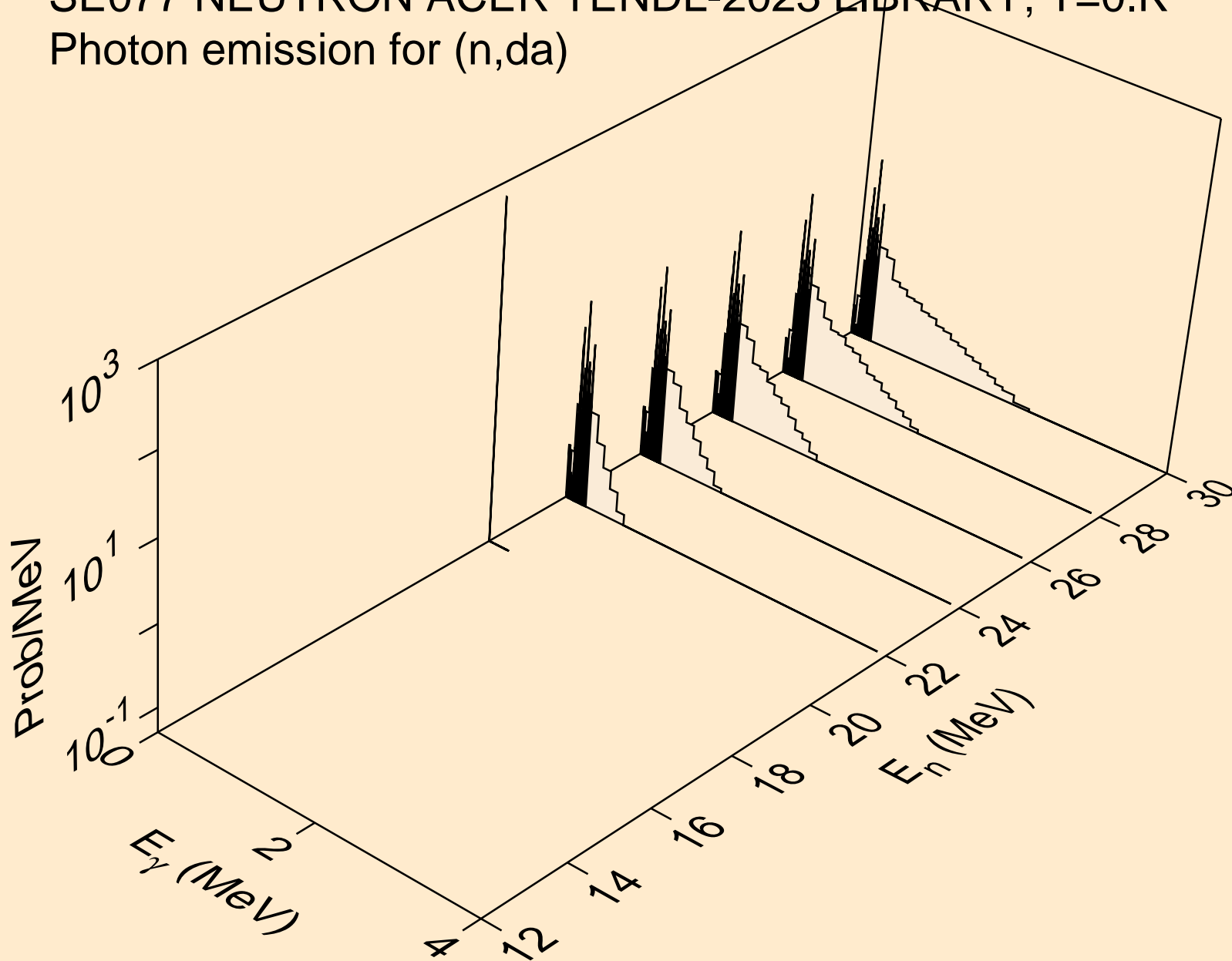


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)

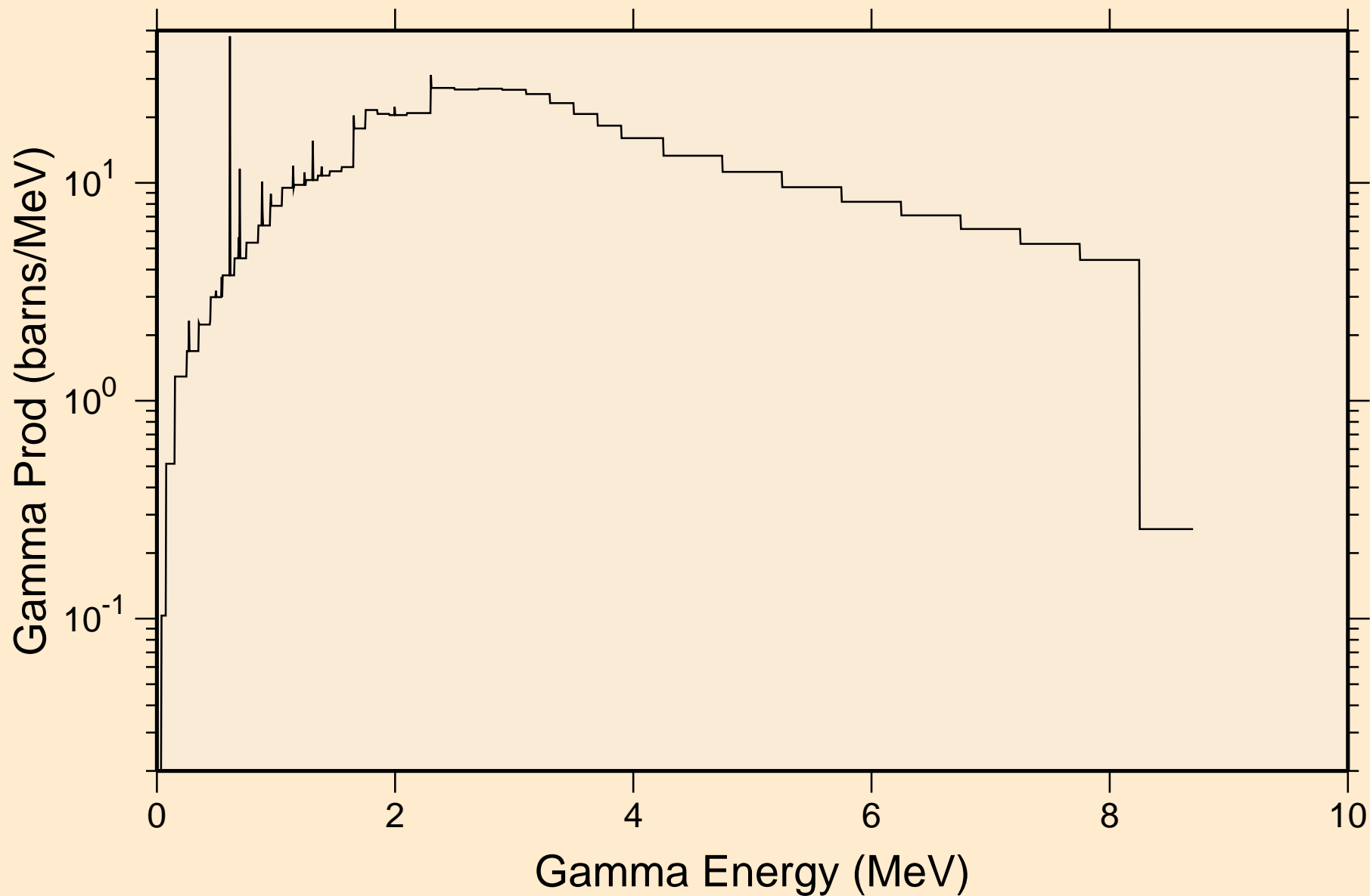




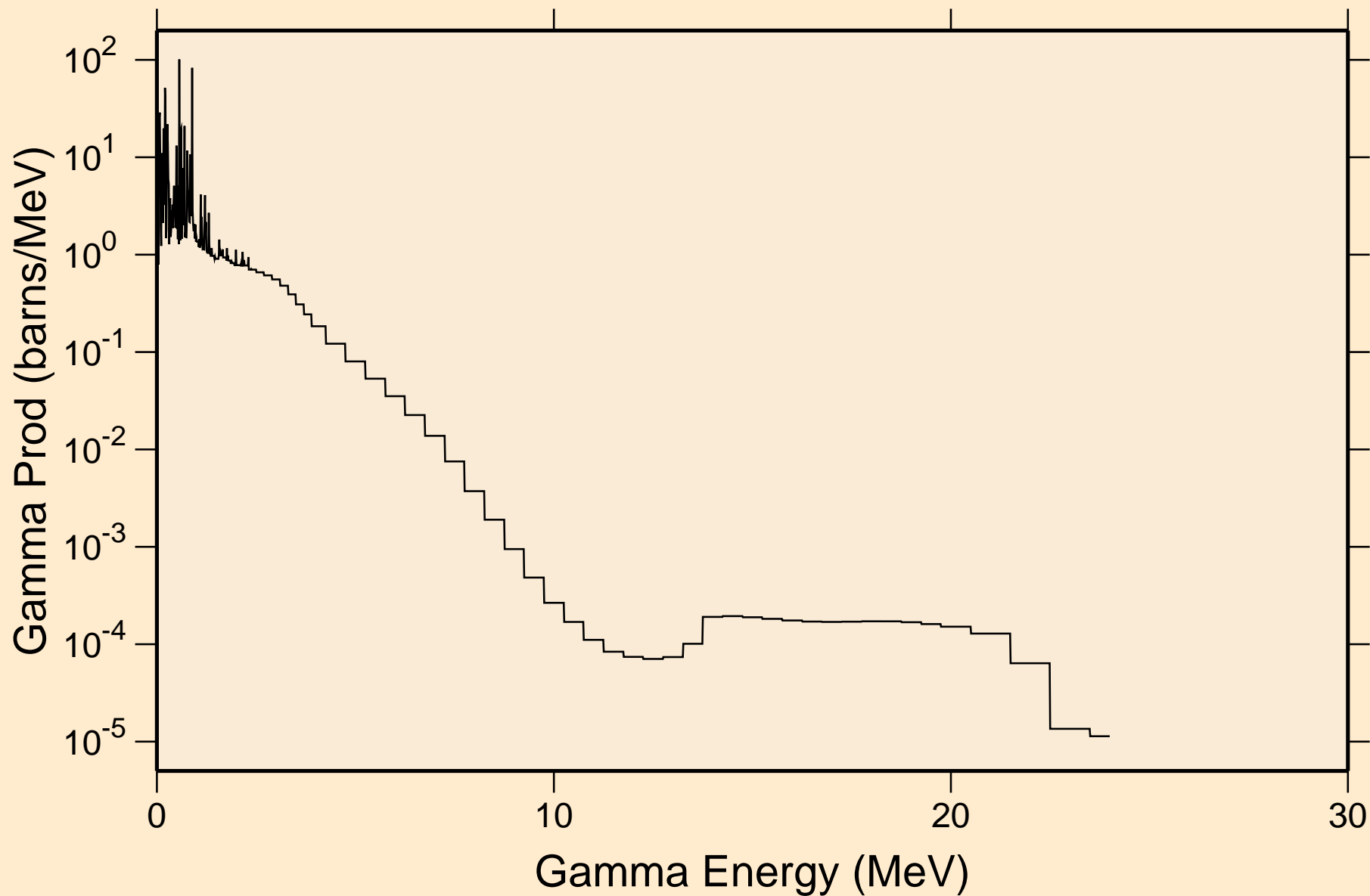
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

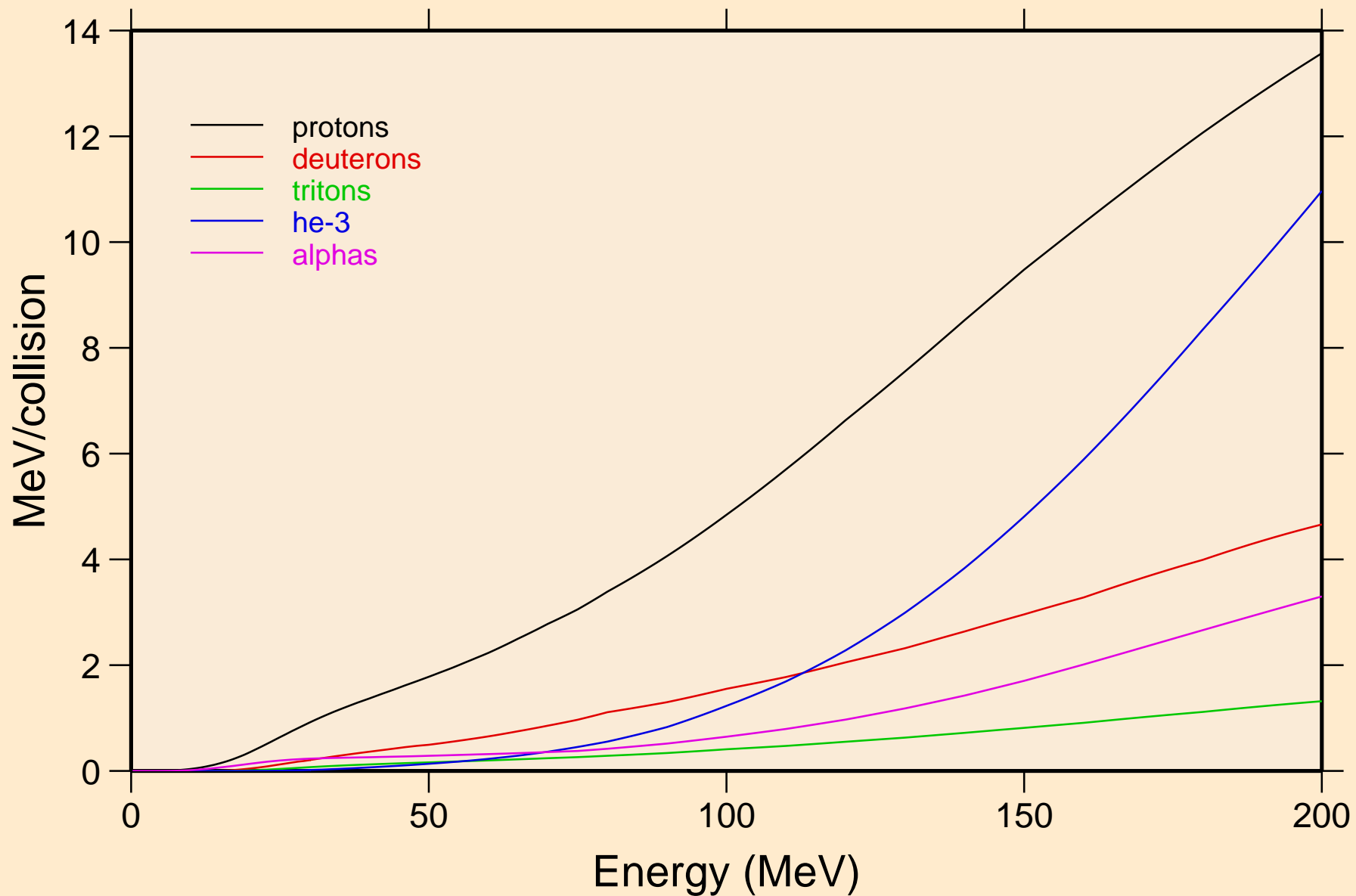


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



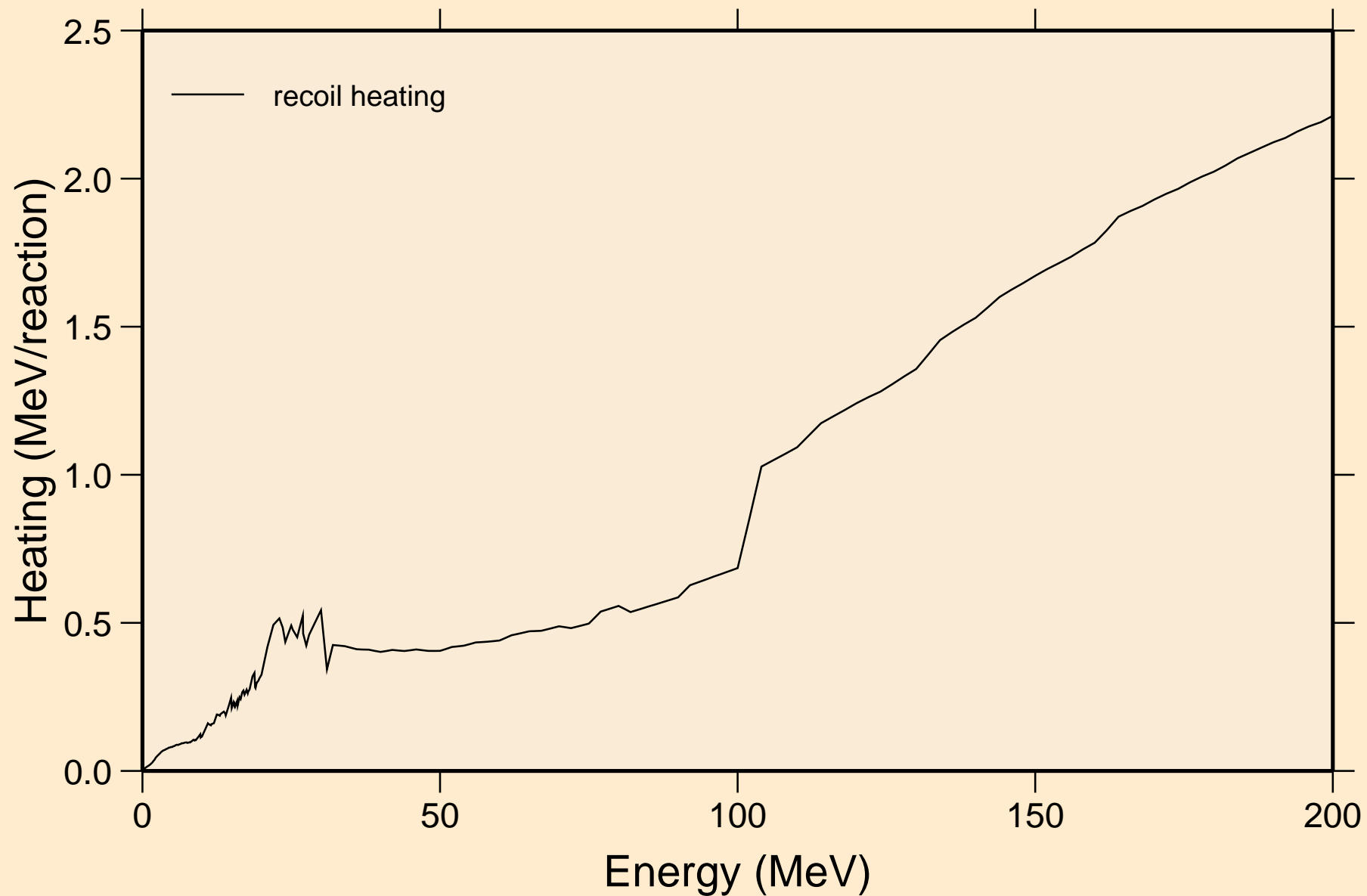
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## Particle heating contributions



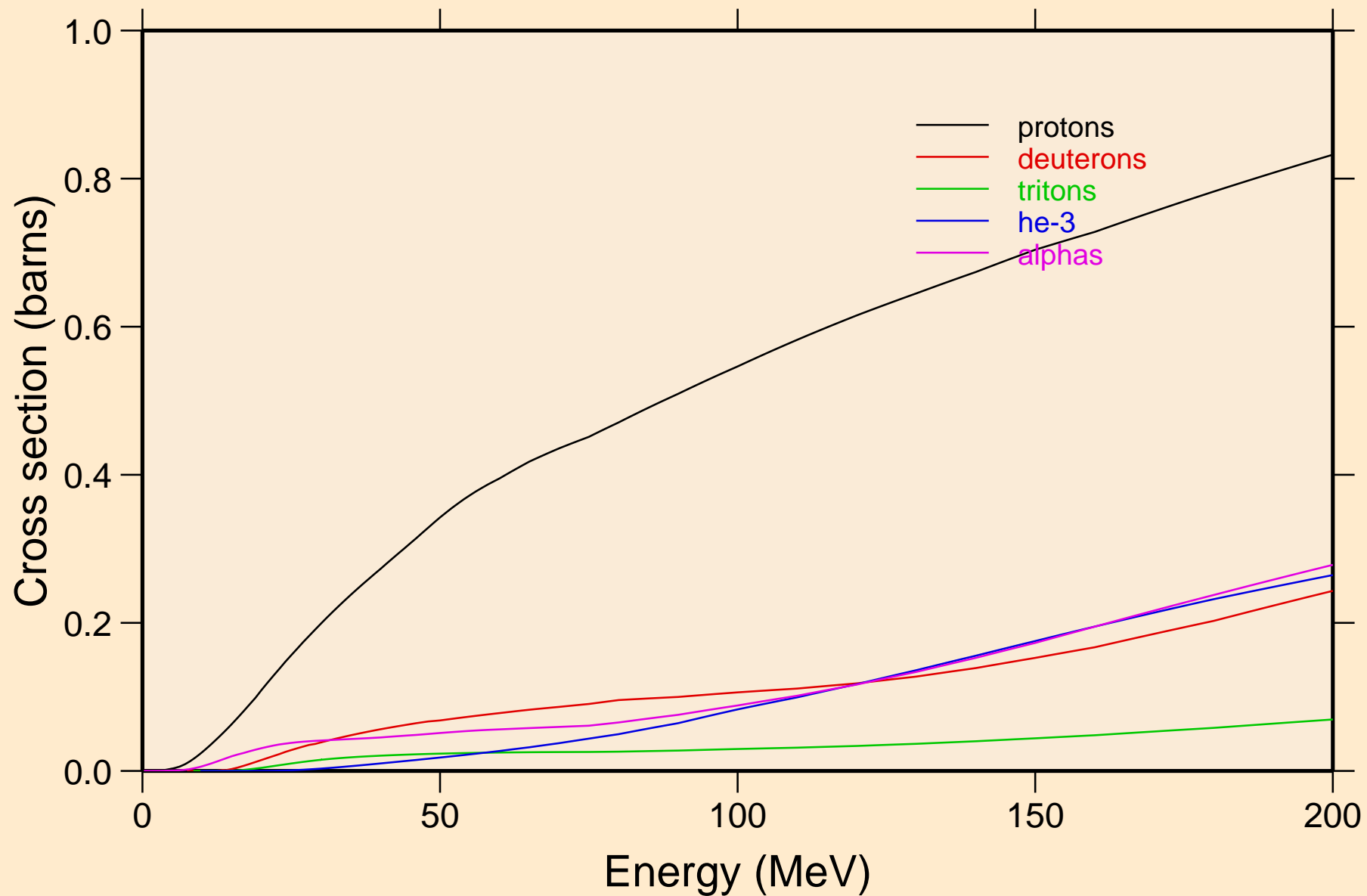
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## Recoil Heating

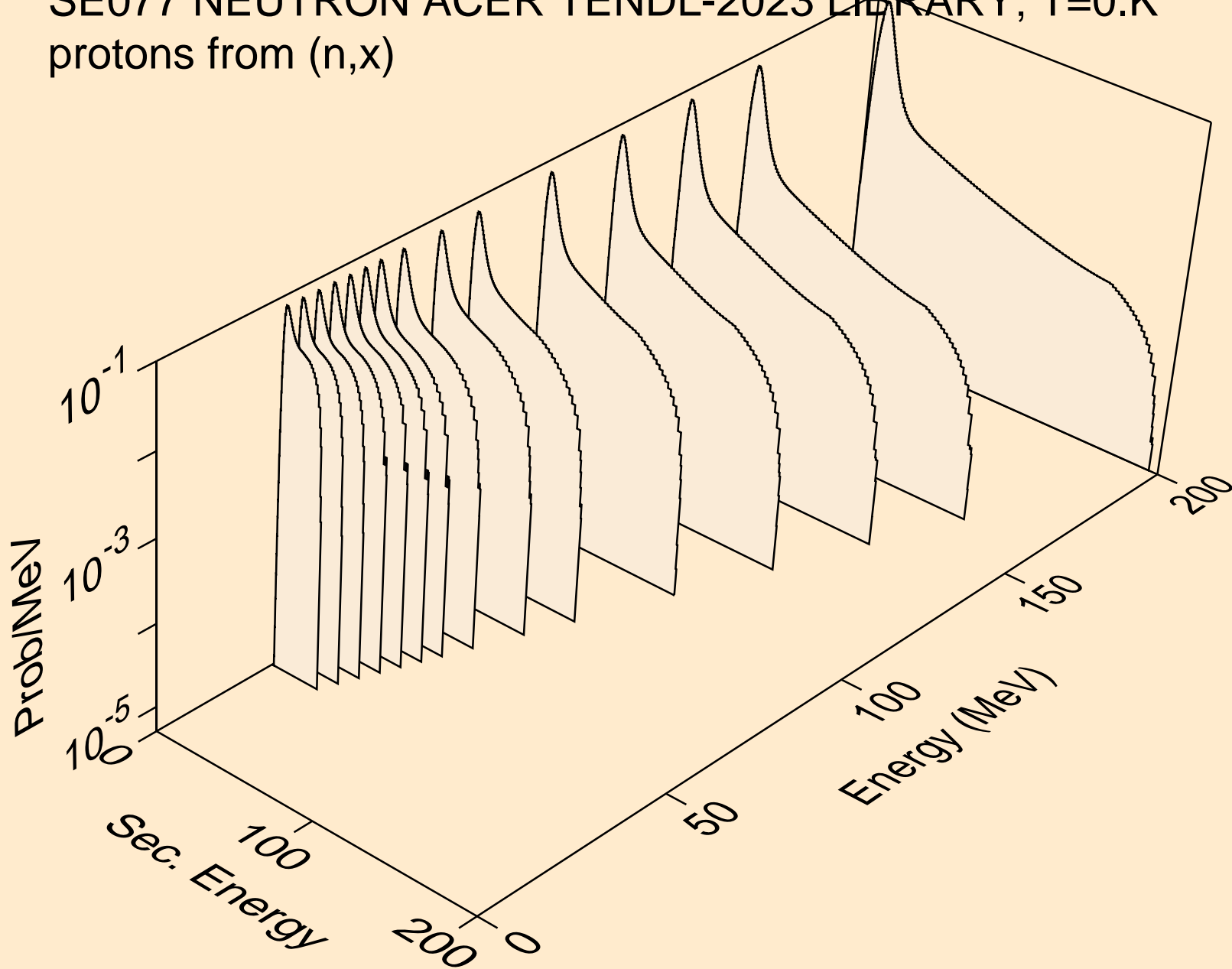


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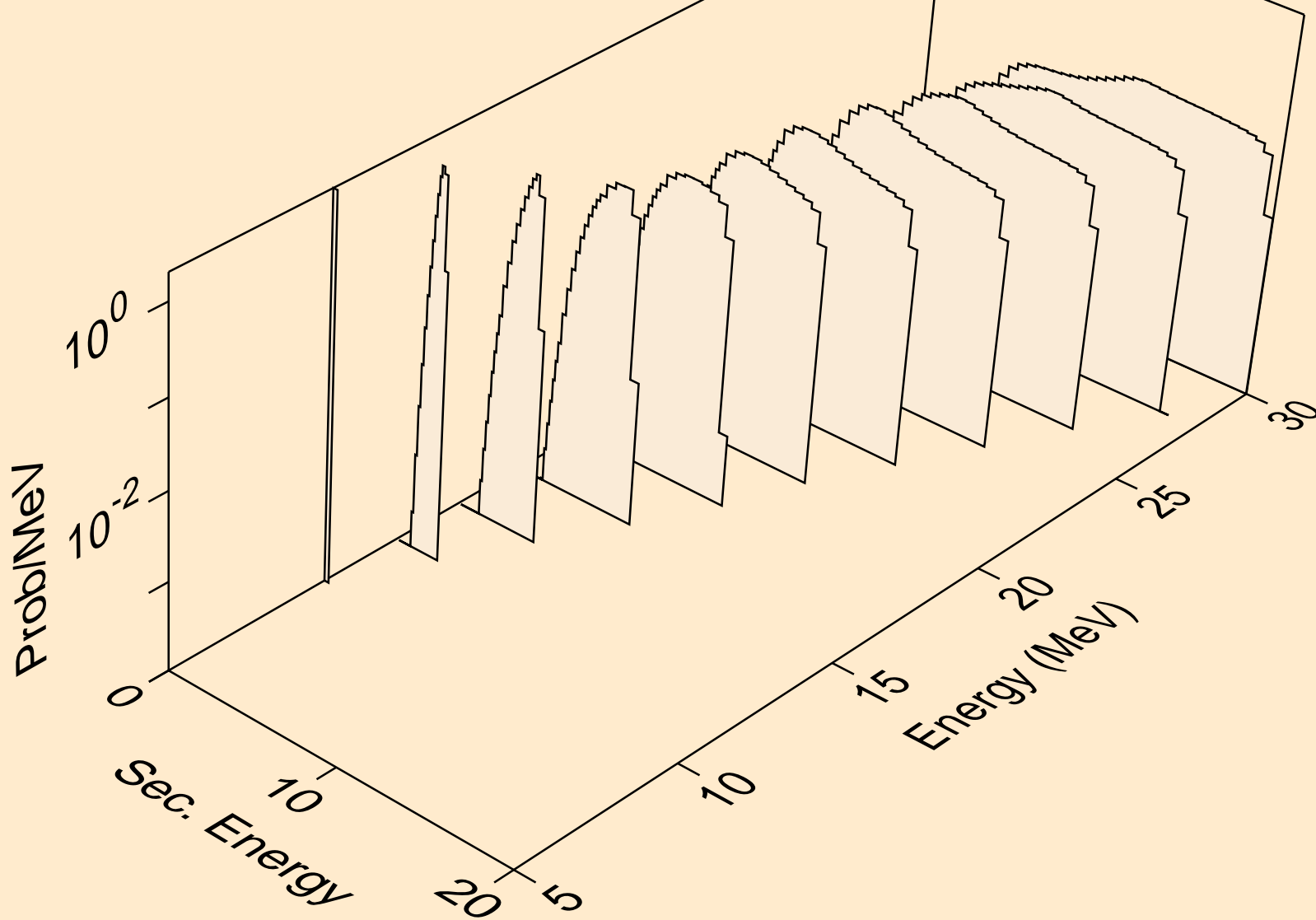
## Particle production cross sections



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)

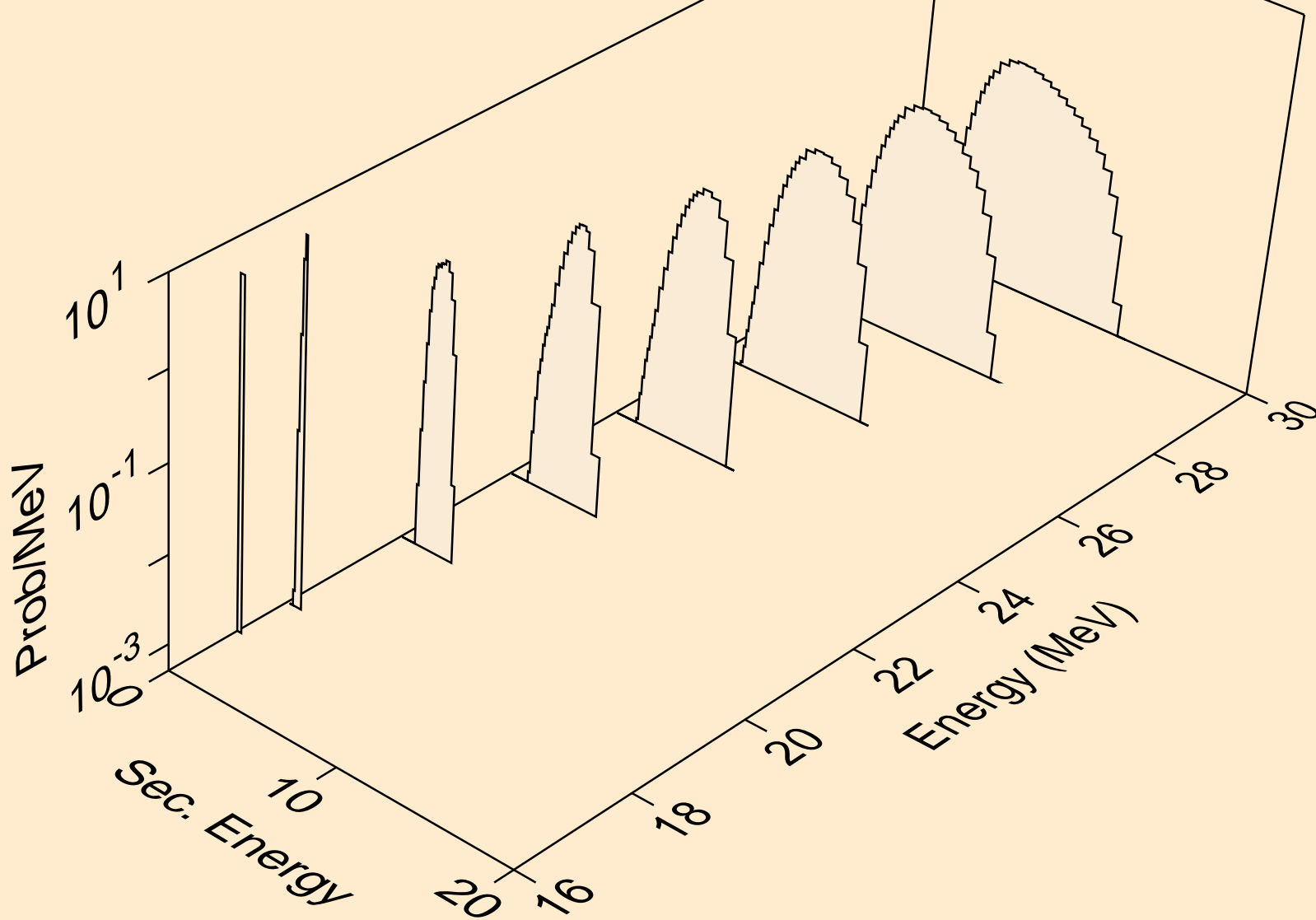


SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p

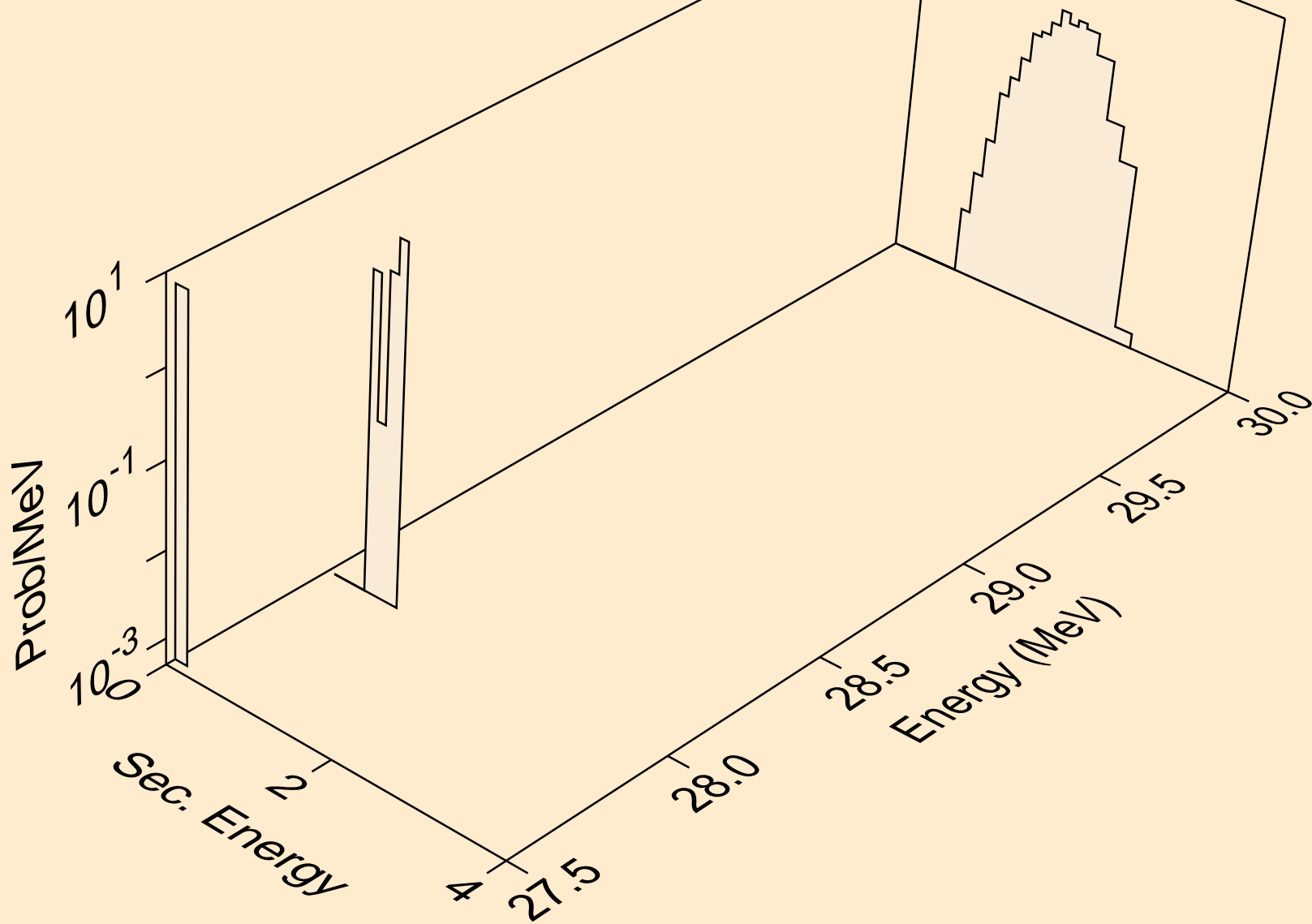




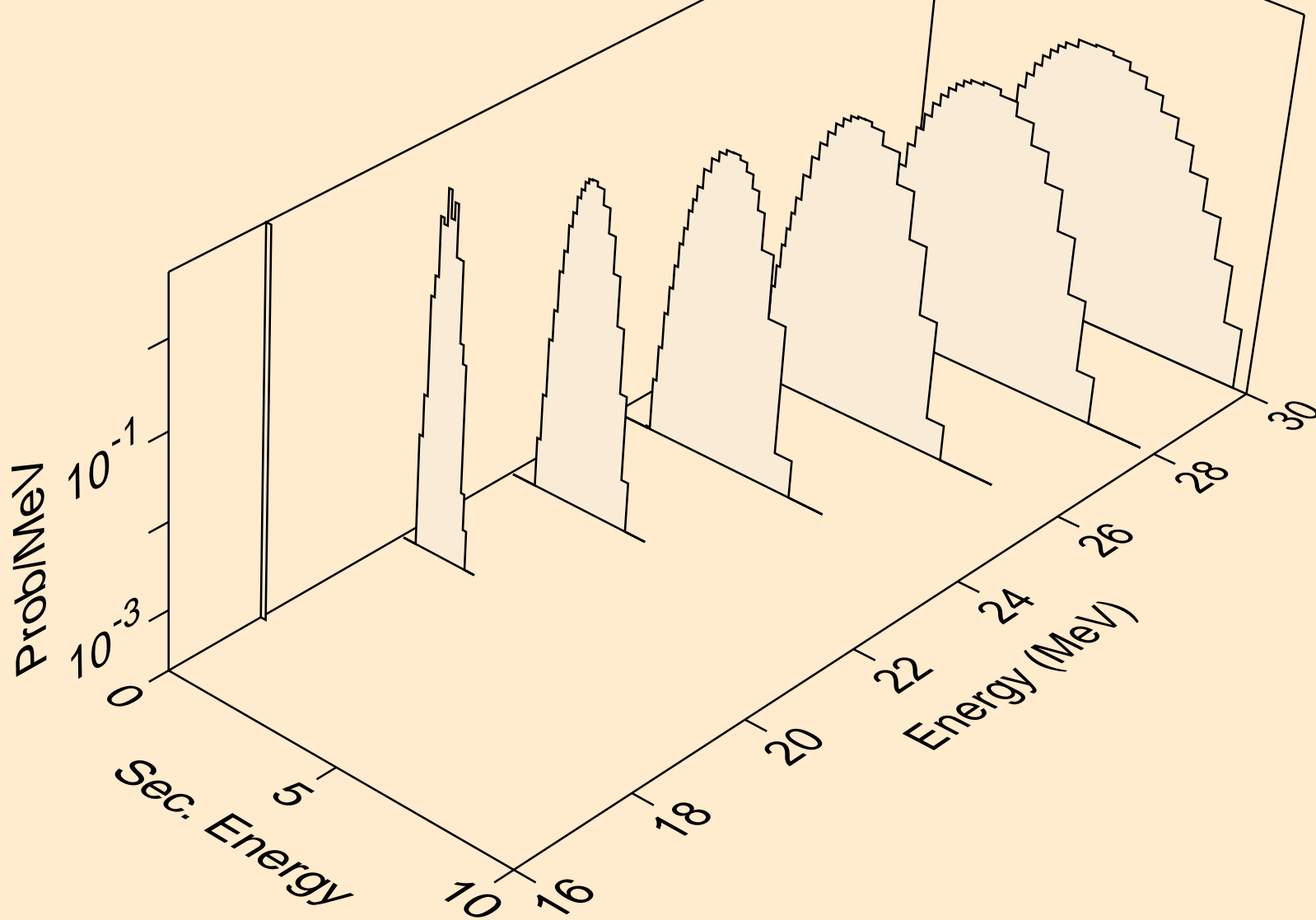
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protons from (n,2np)



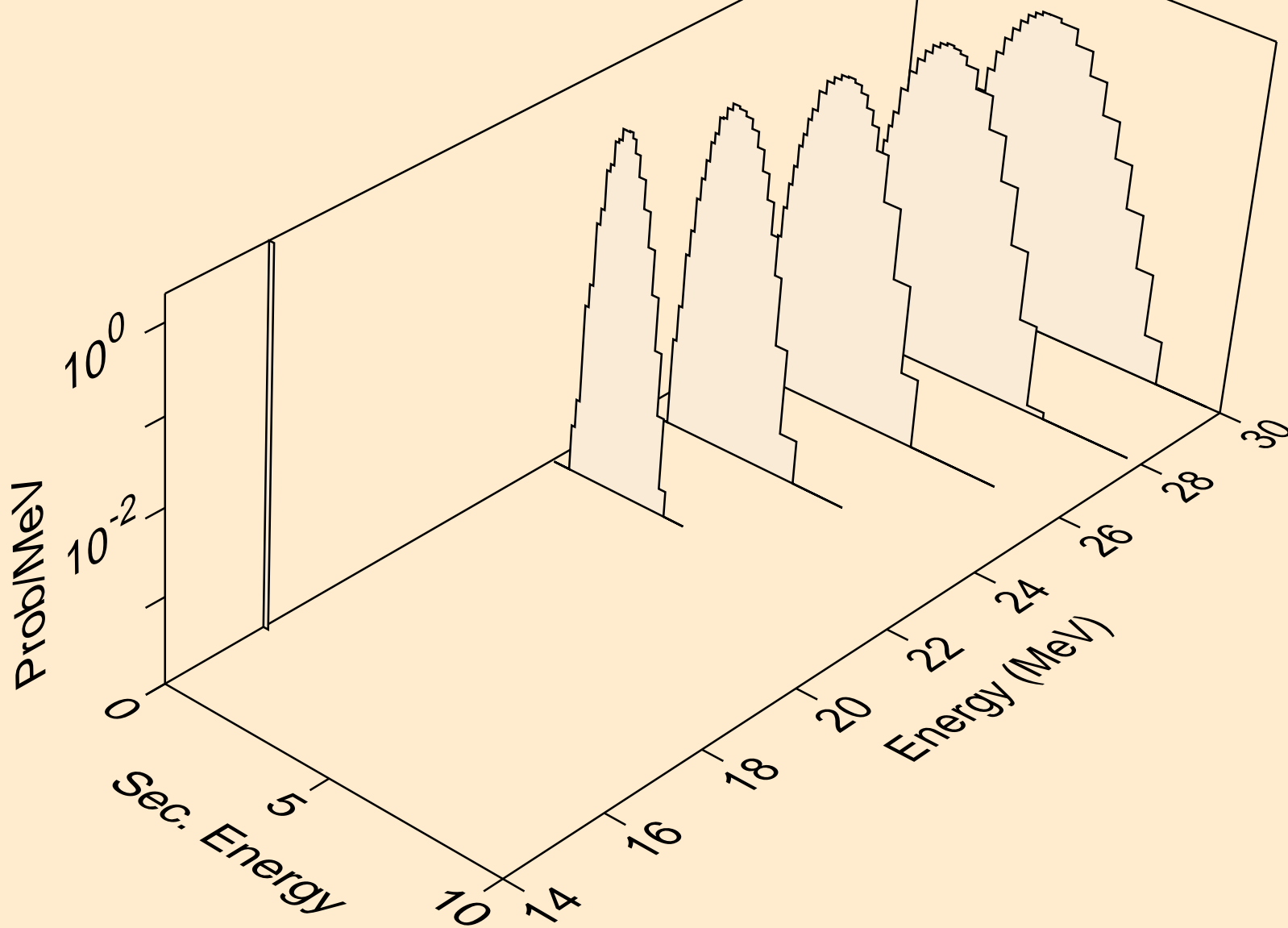
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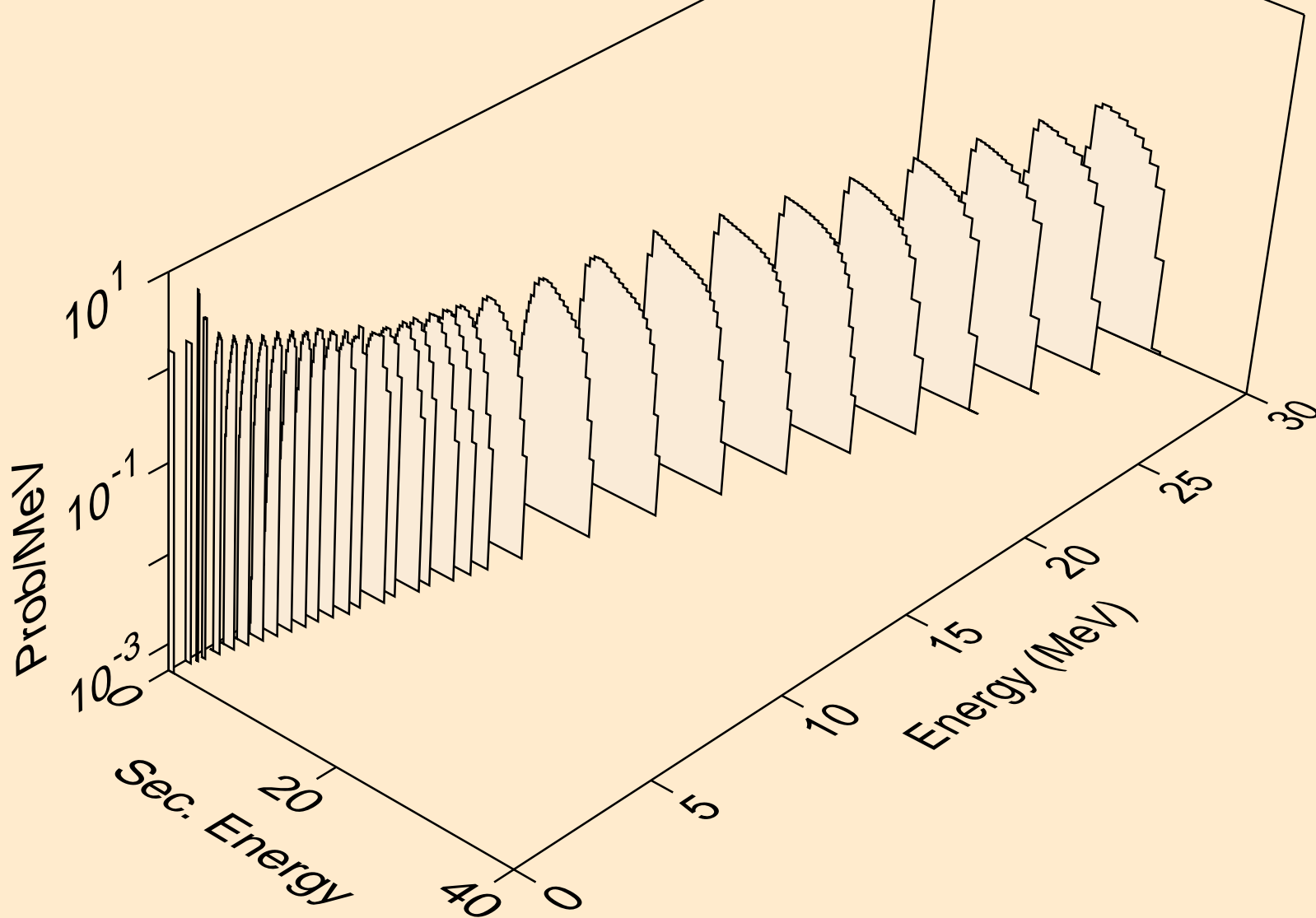
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protons from (n,n2p)



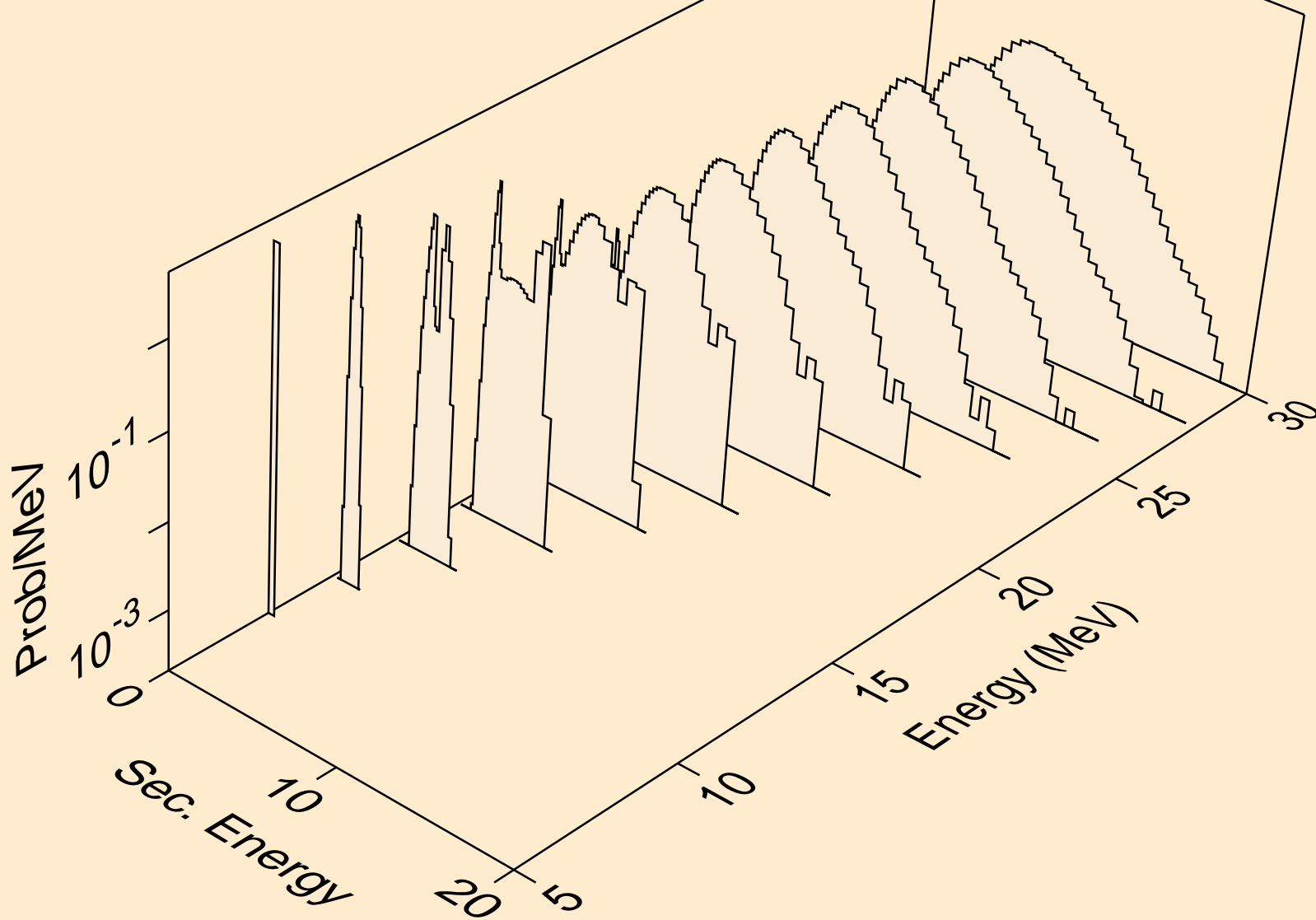
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protons from (n,npa)



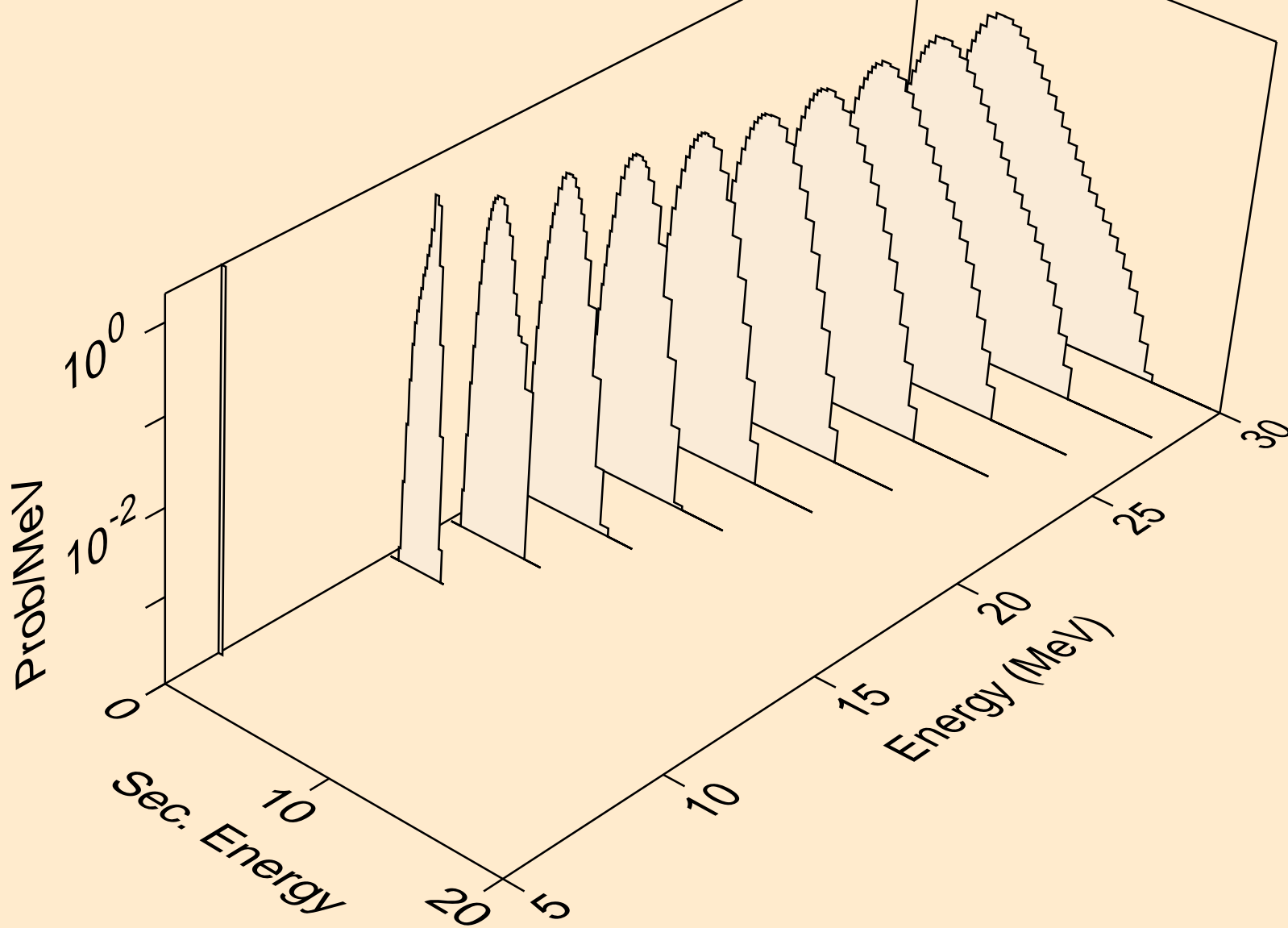
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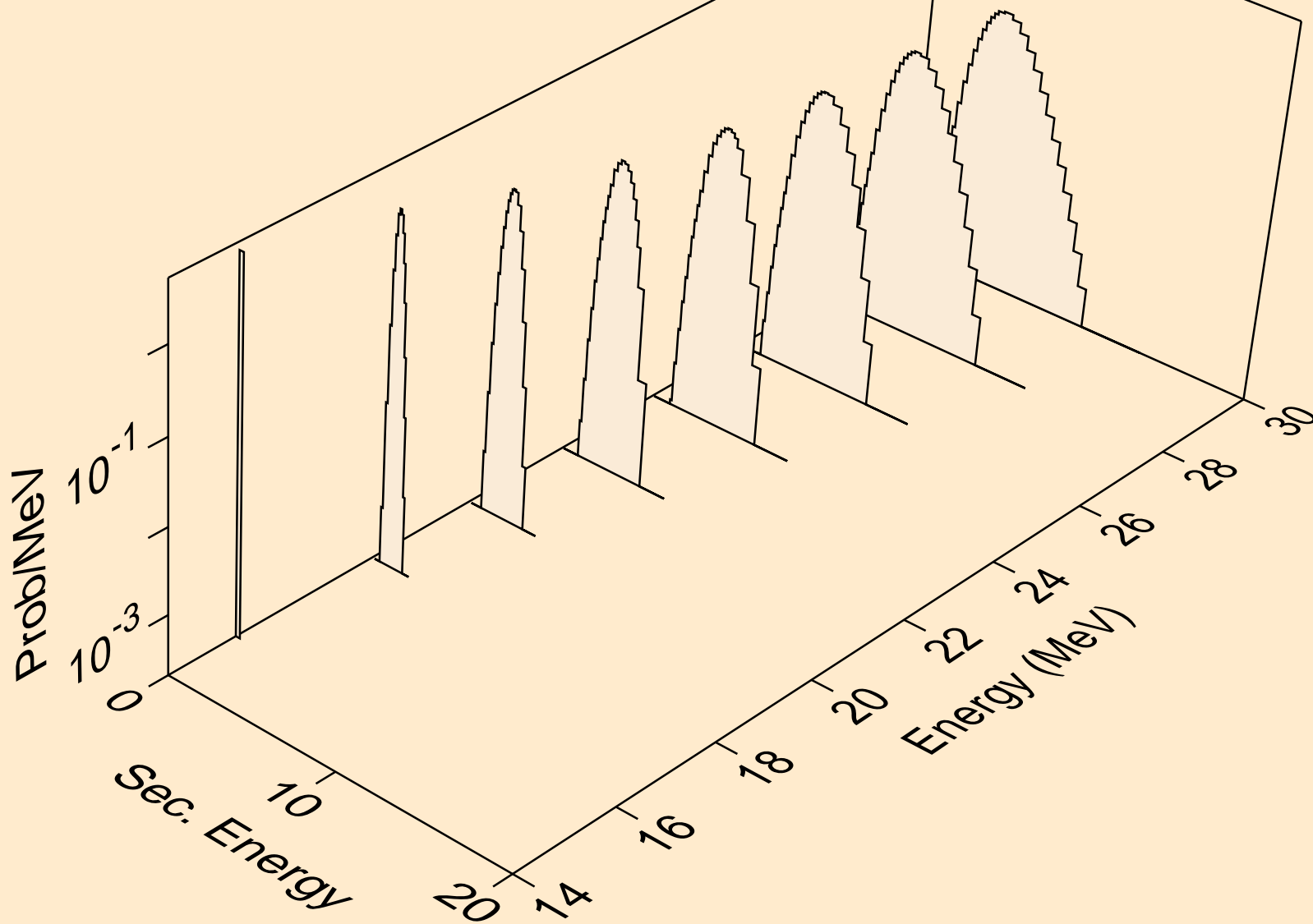
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protons from (n,2p)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)

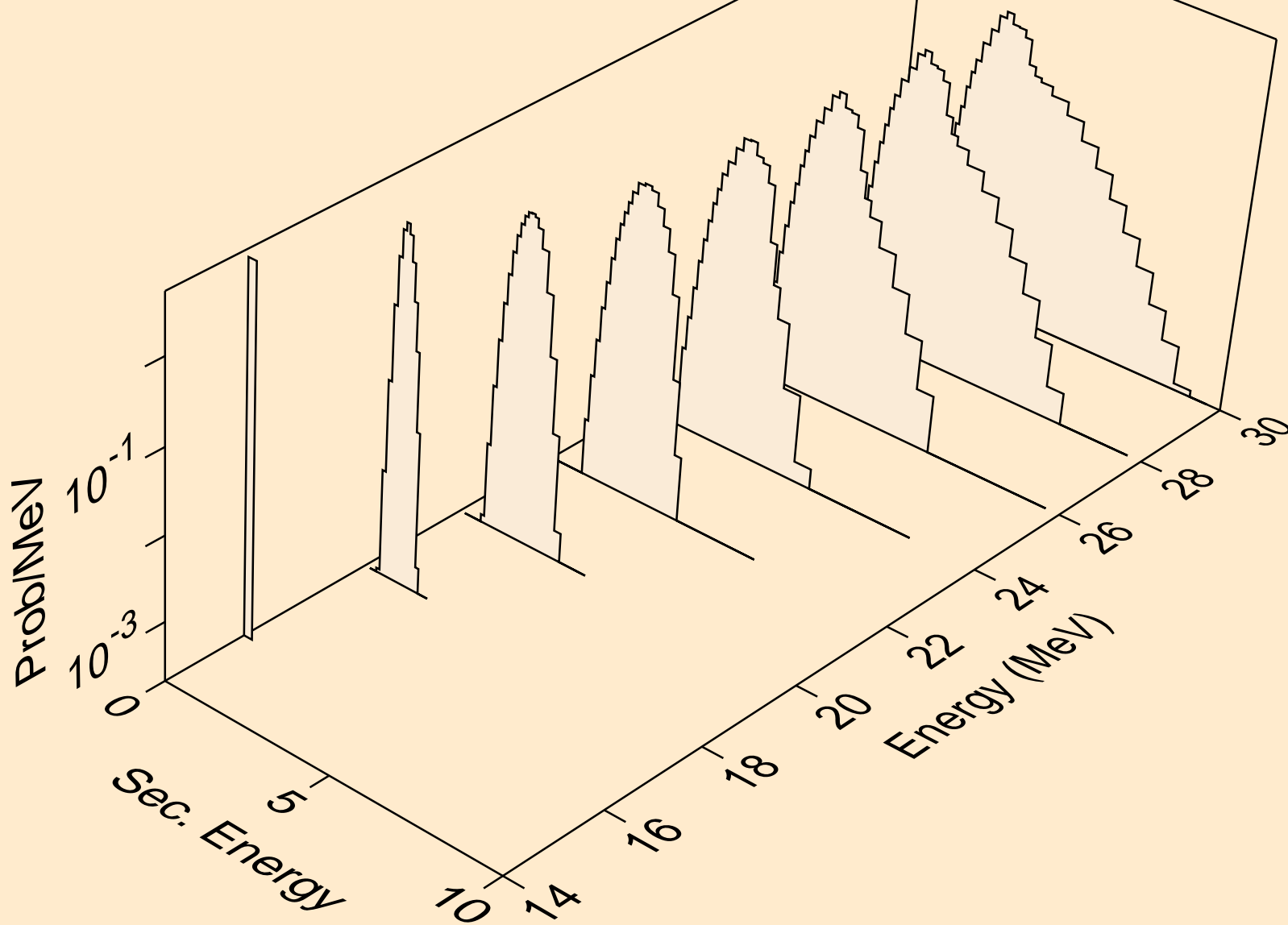


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protons from (n,pd)

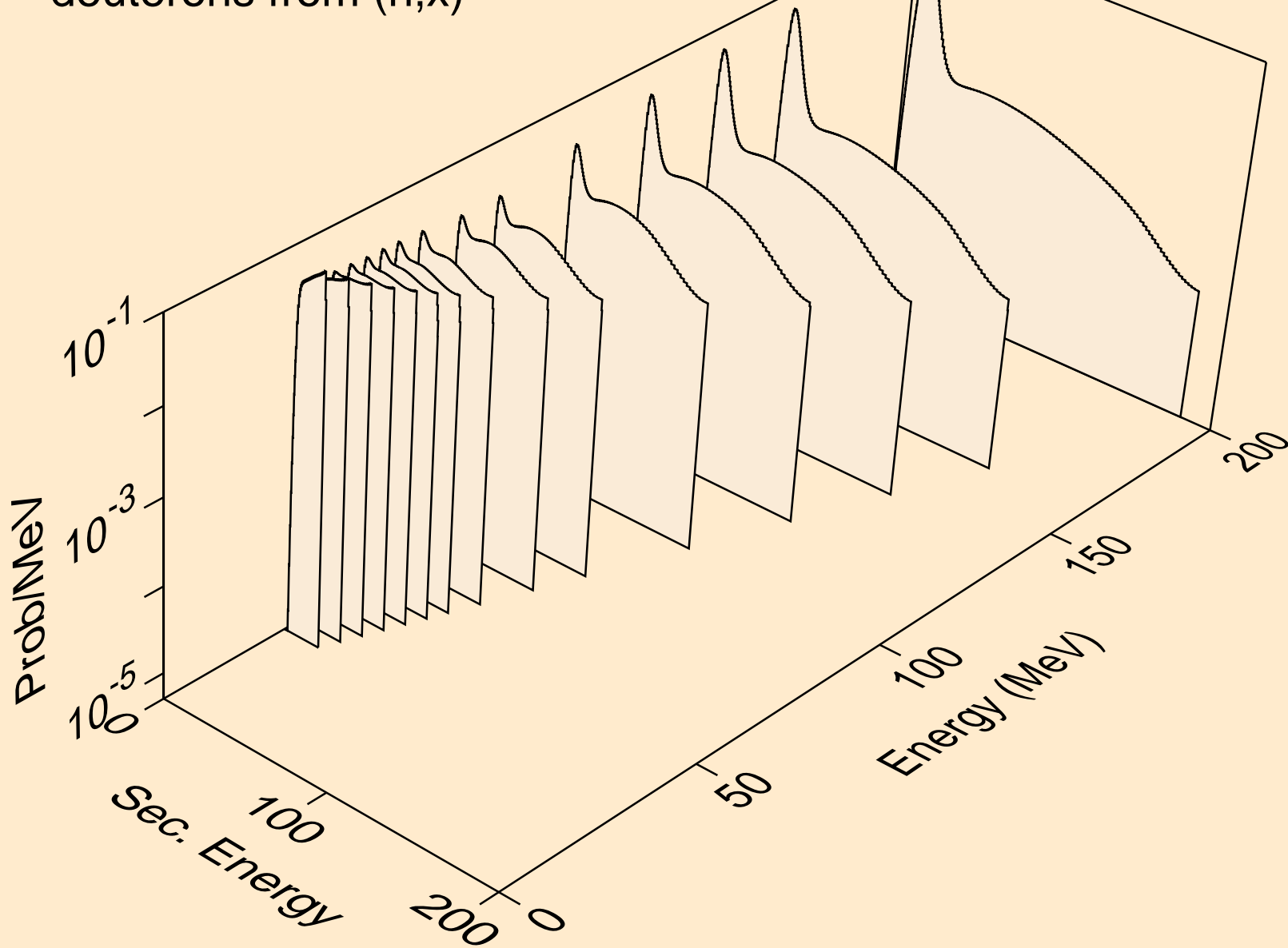




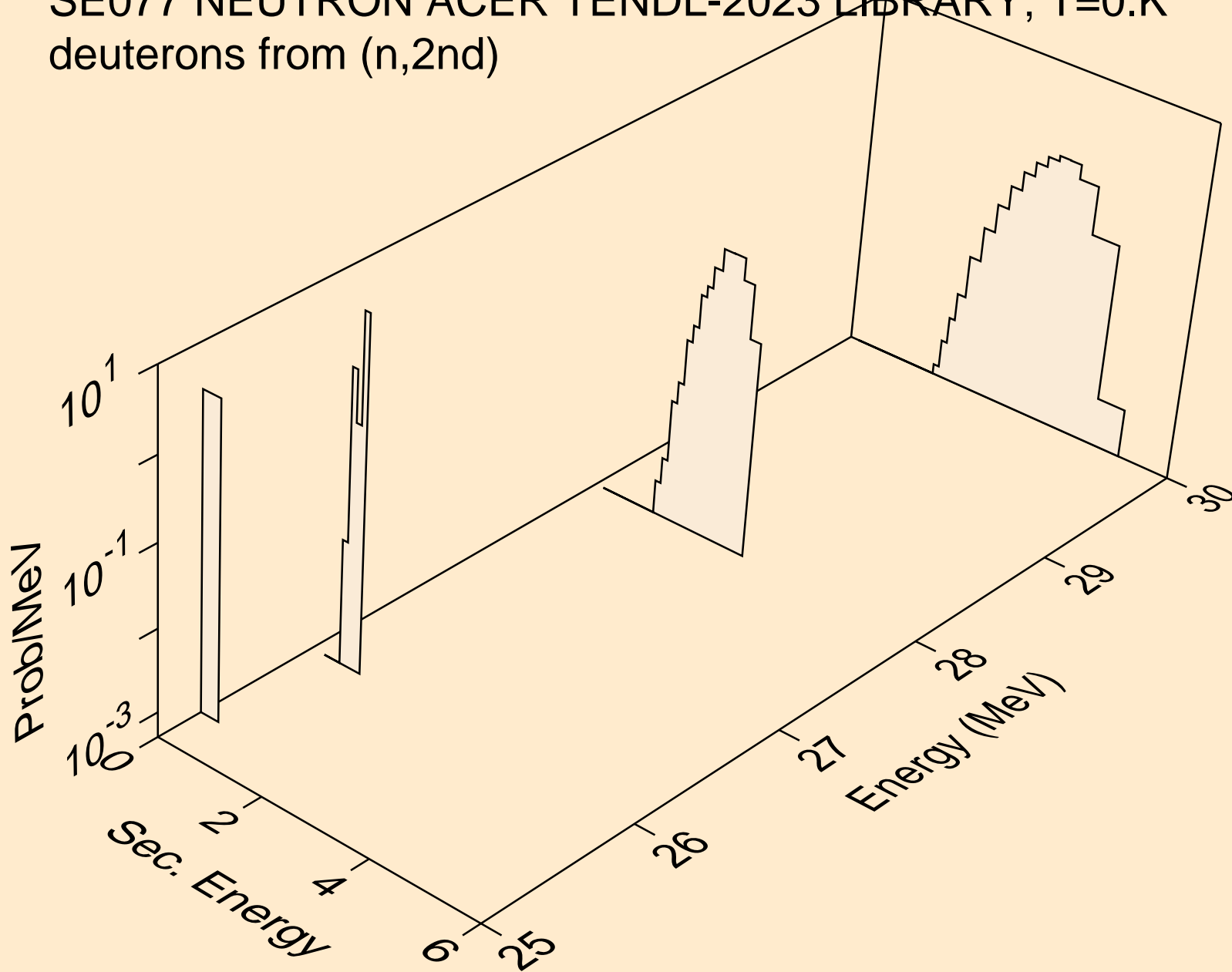
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protons from (n,pt)



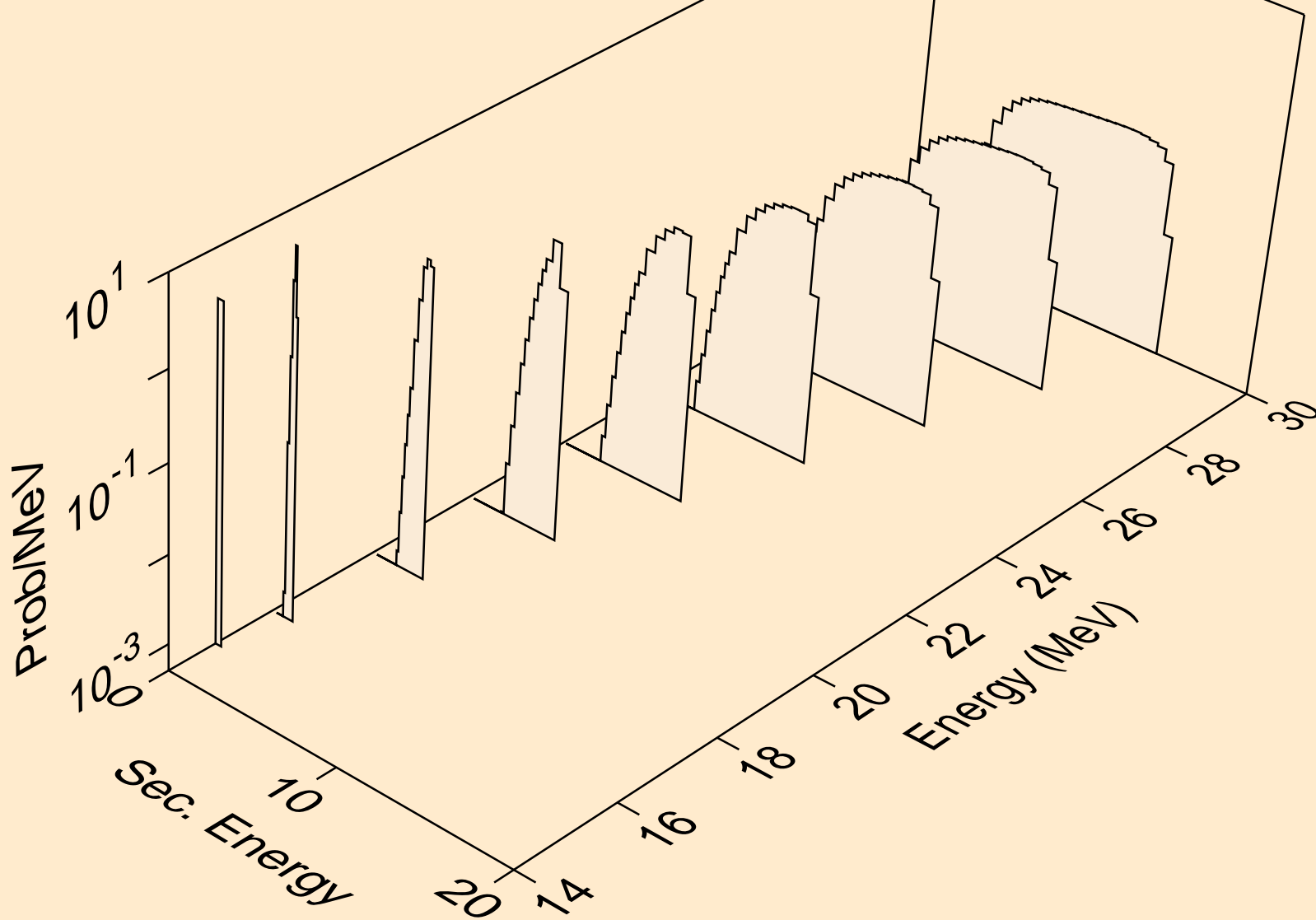
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deuterons from (n,x)



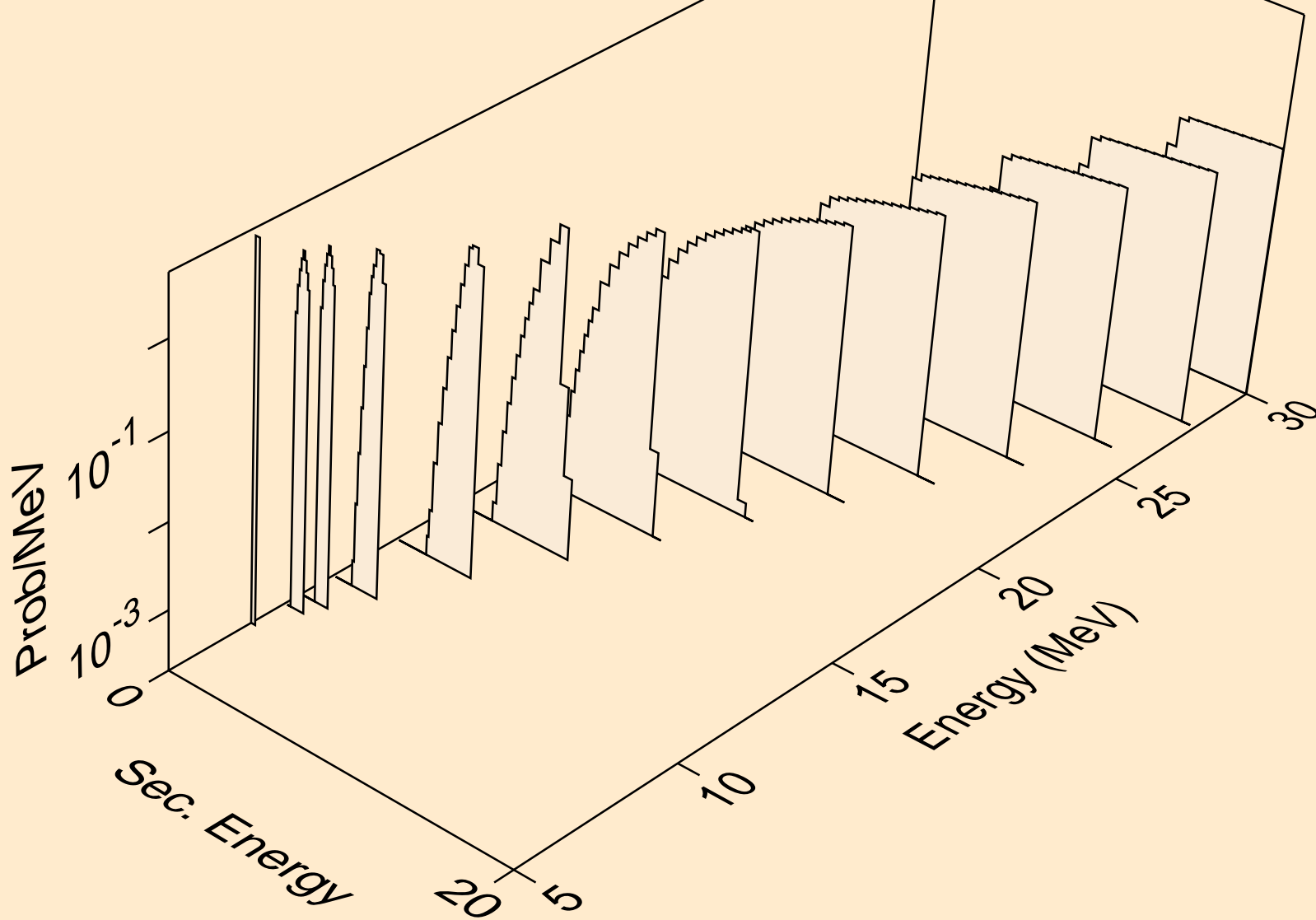
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deuterons from (n,2nd)



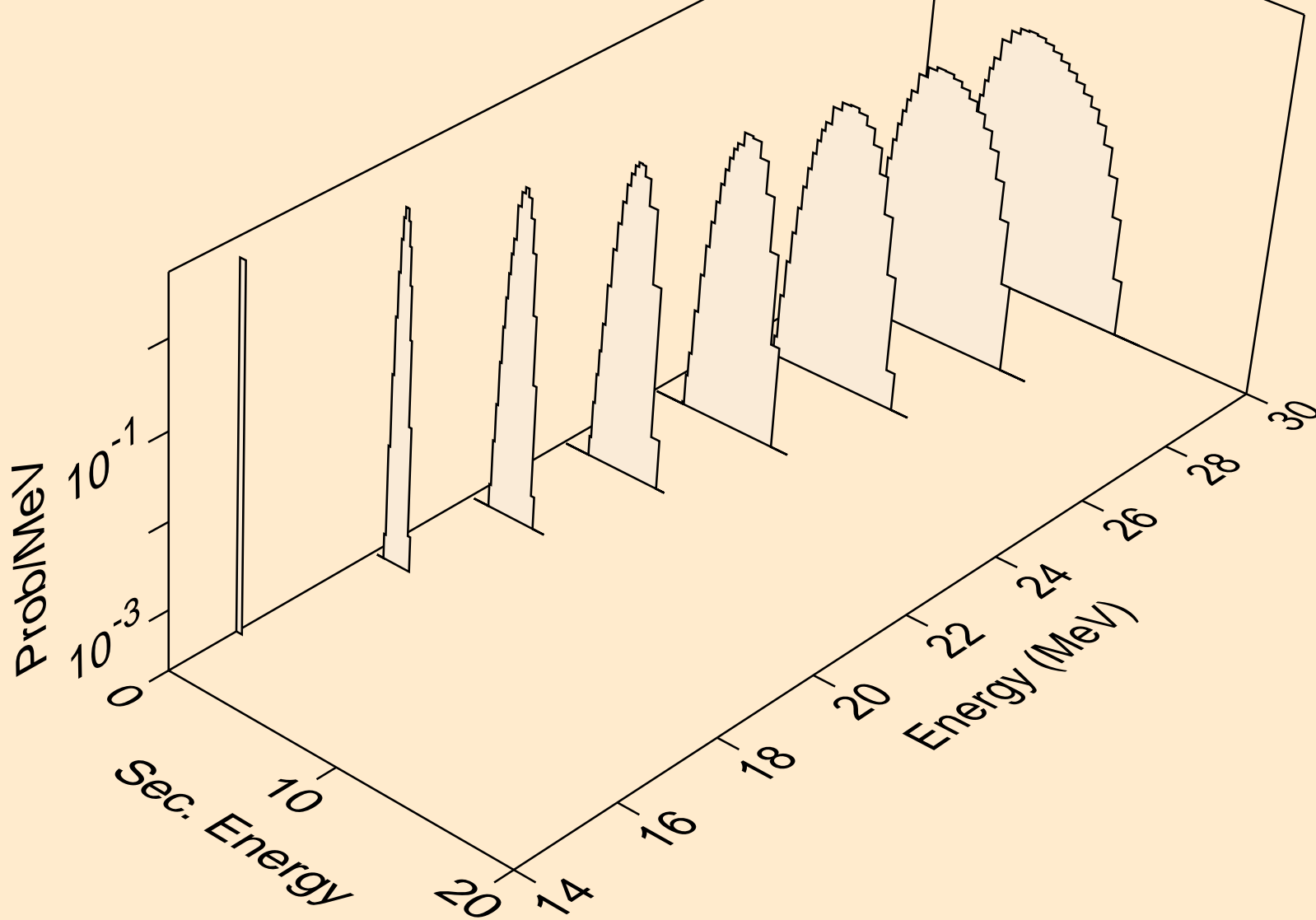
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deuterons from (n,n\*)d



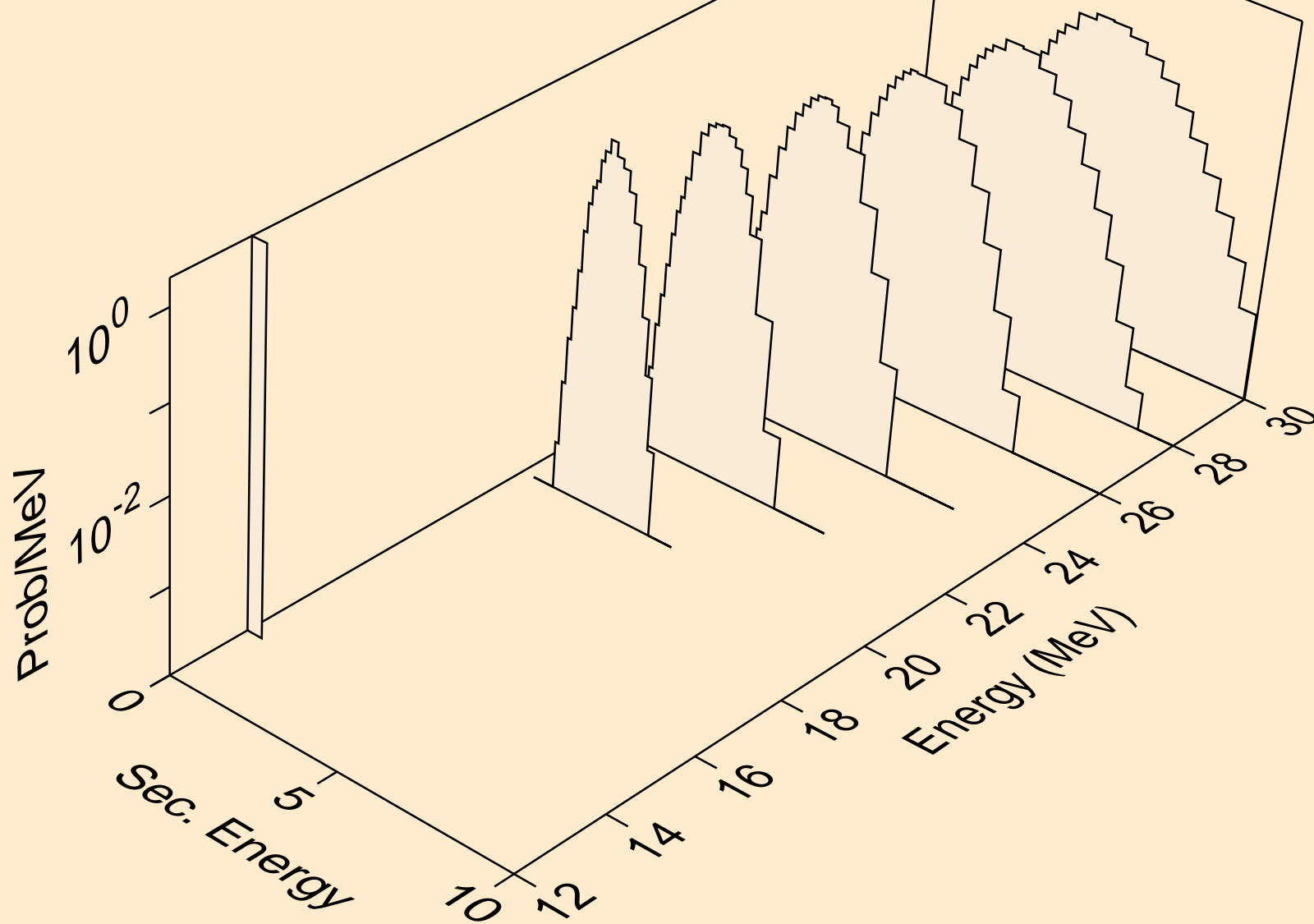
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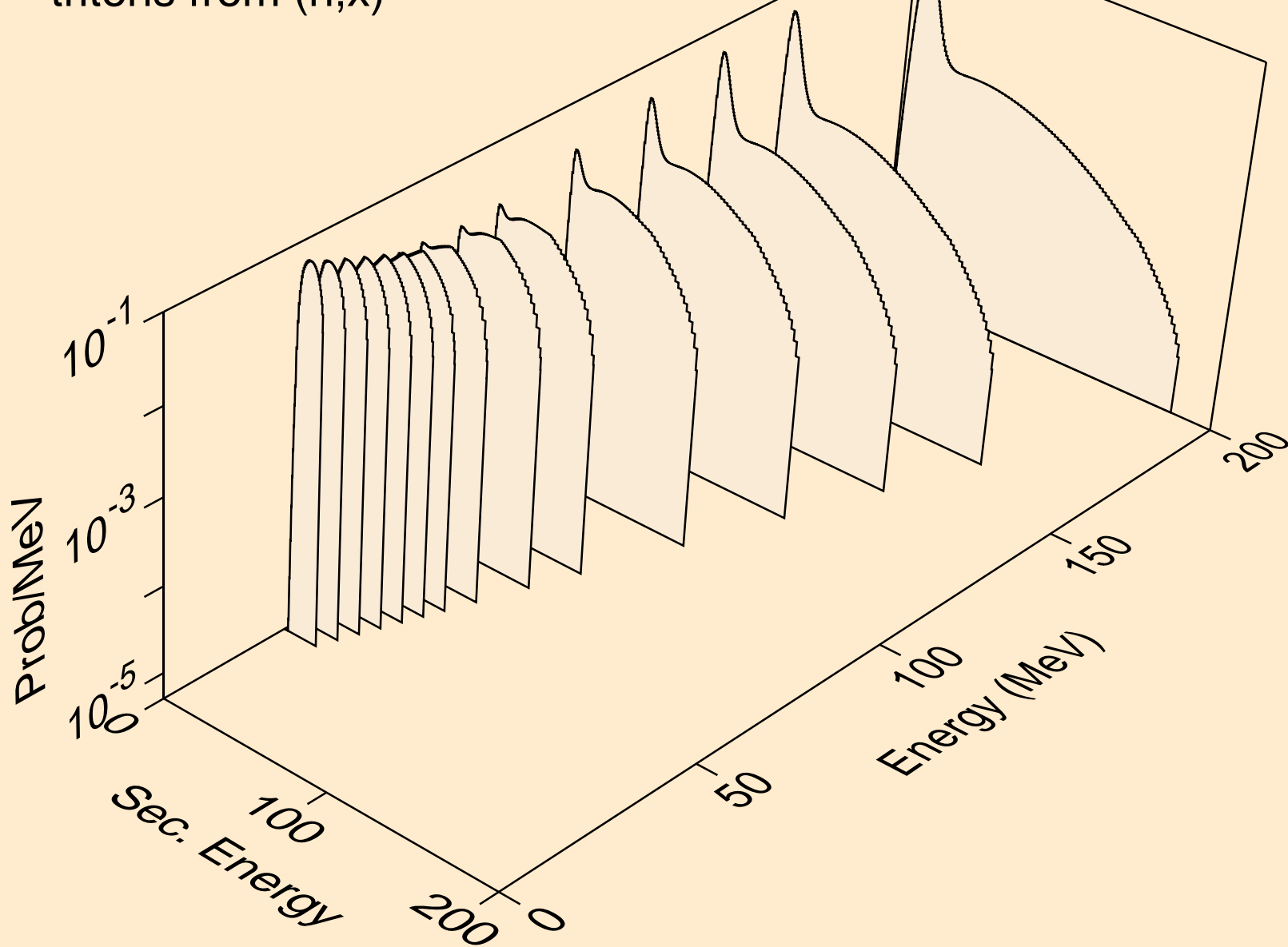
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deuterons from (n,pd)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,da)

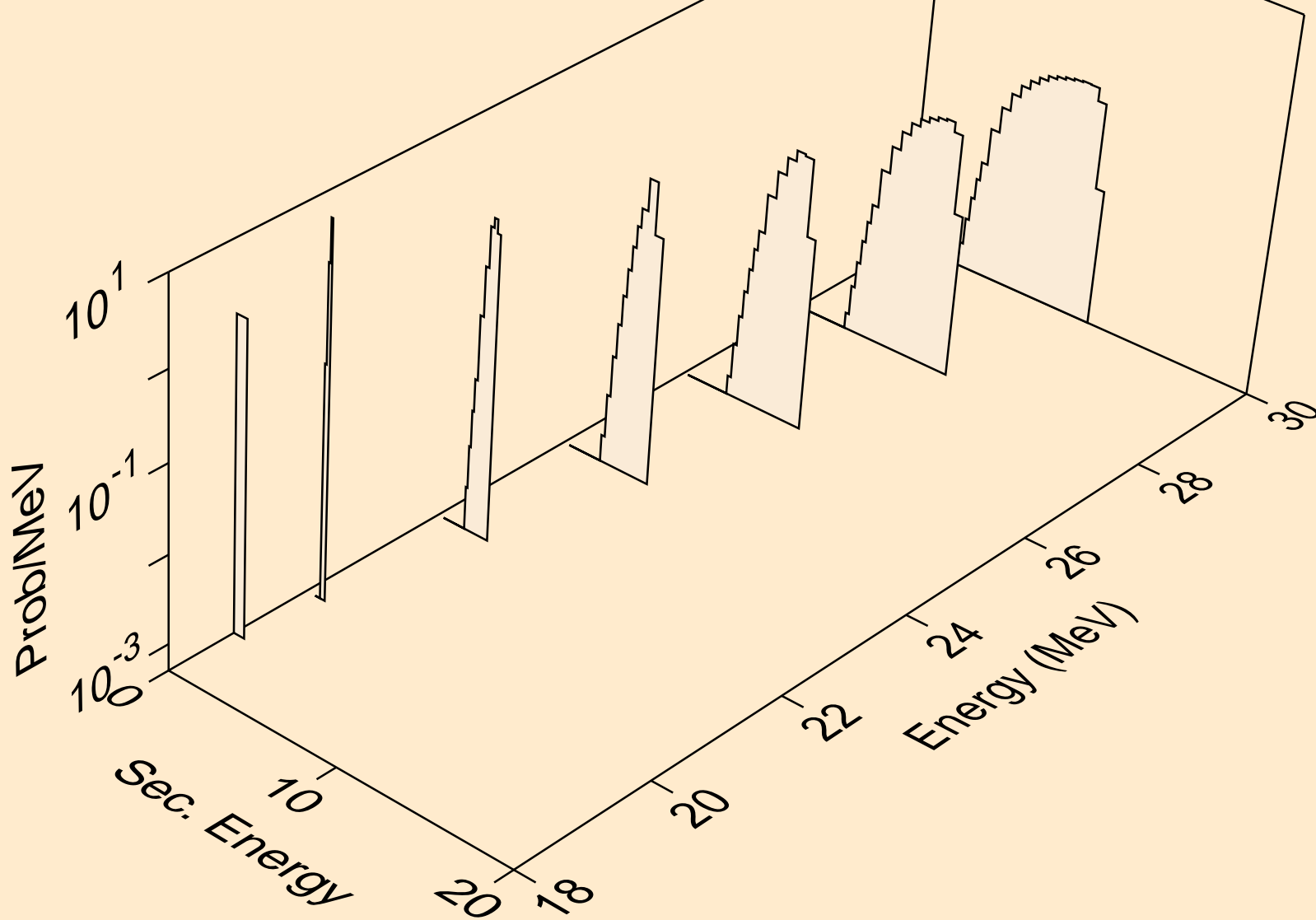


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tritons from (n,x)

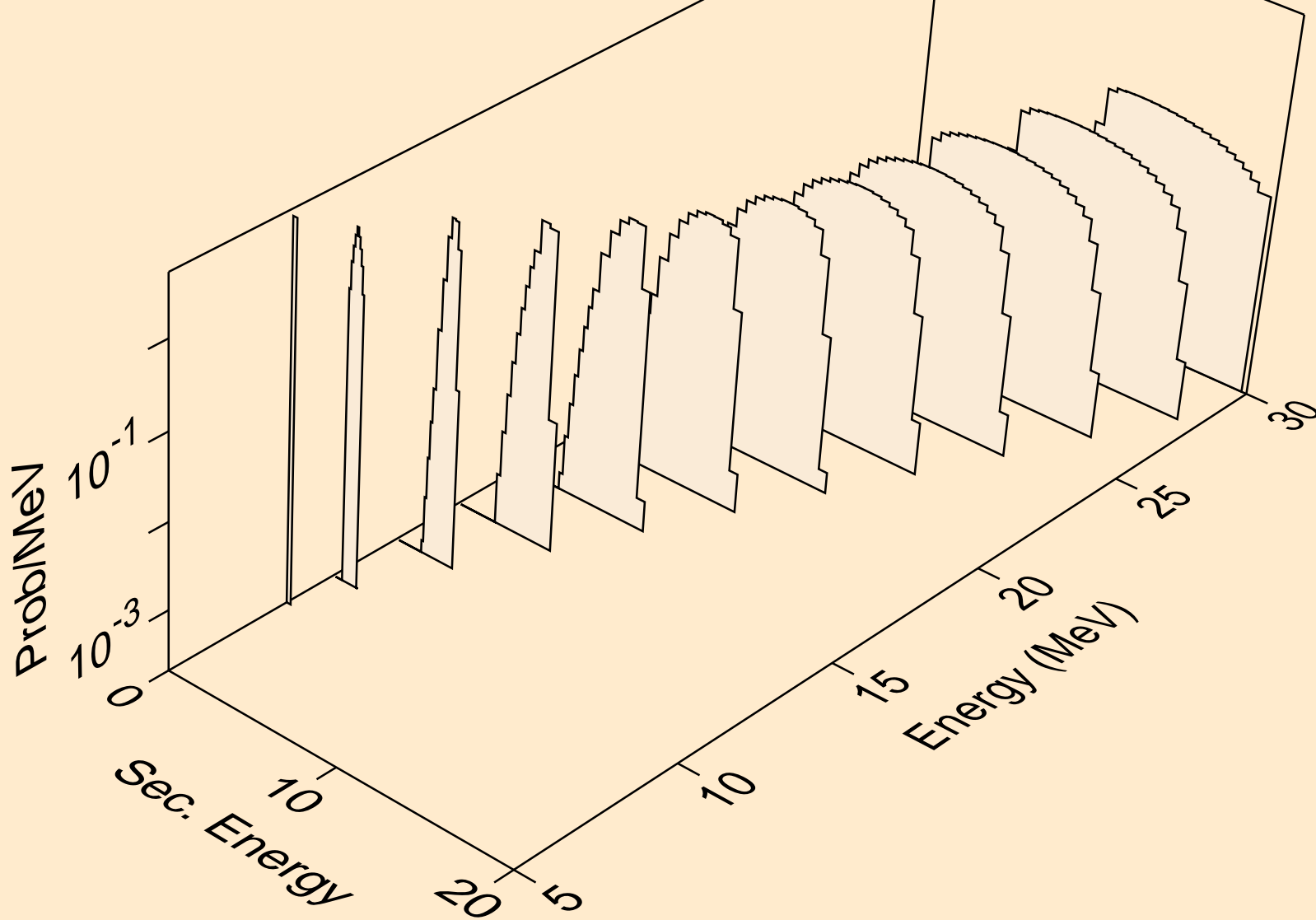




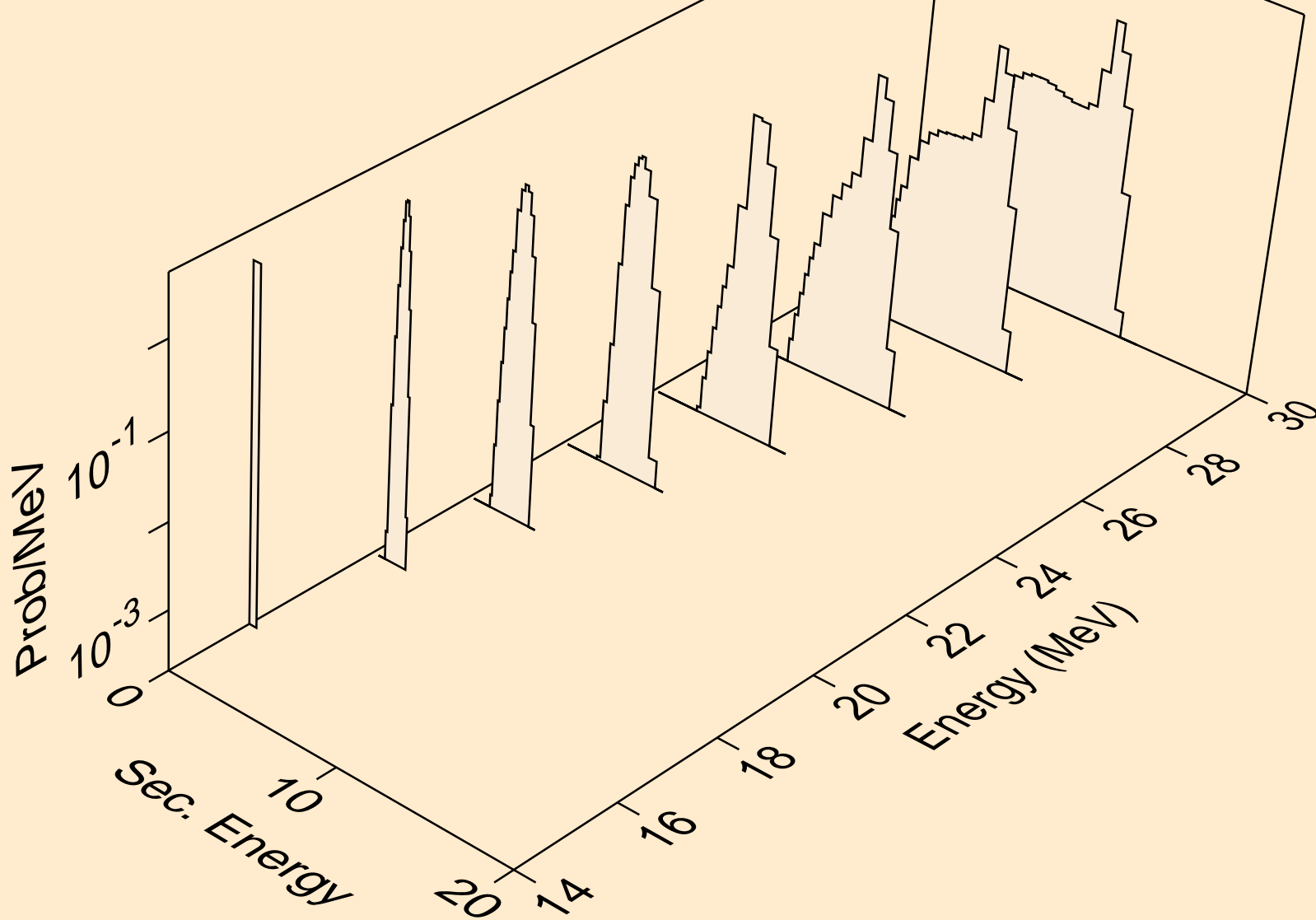
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tritons from (n,n\*)t



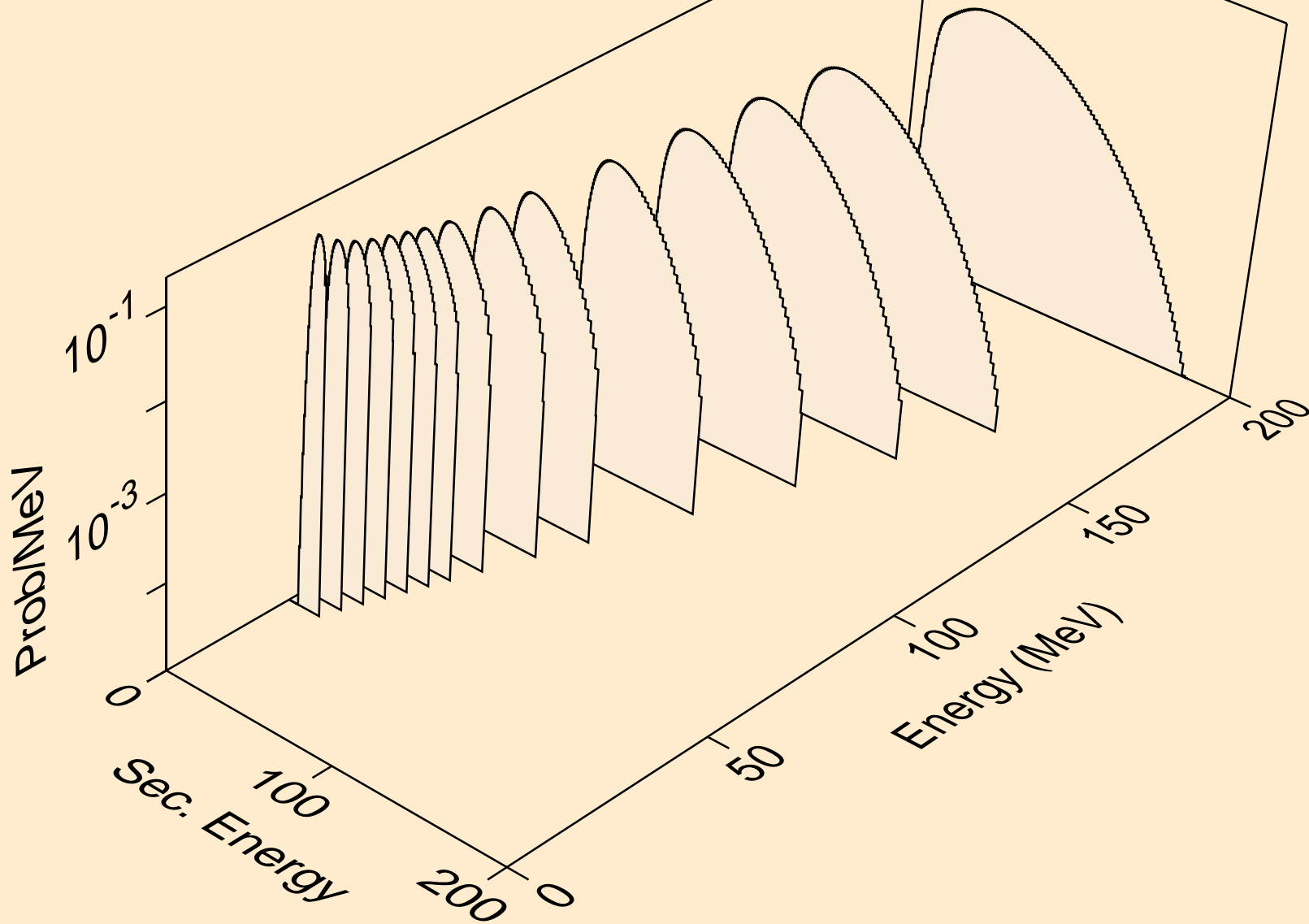
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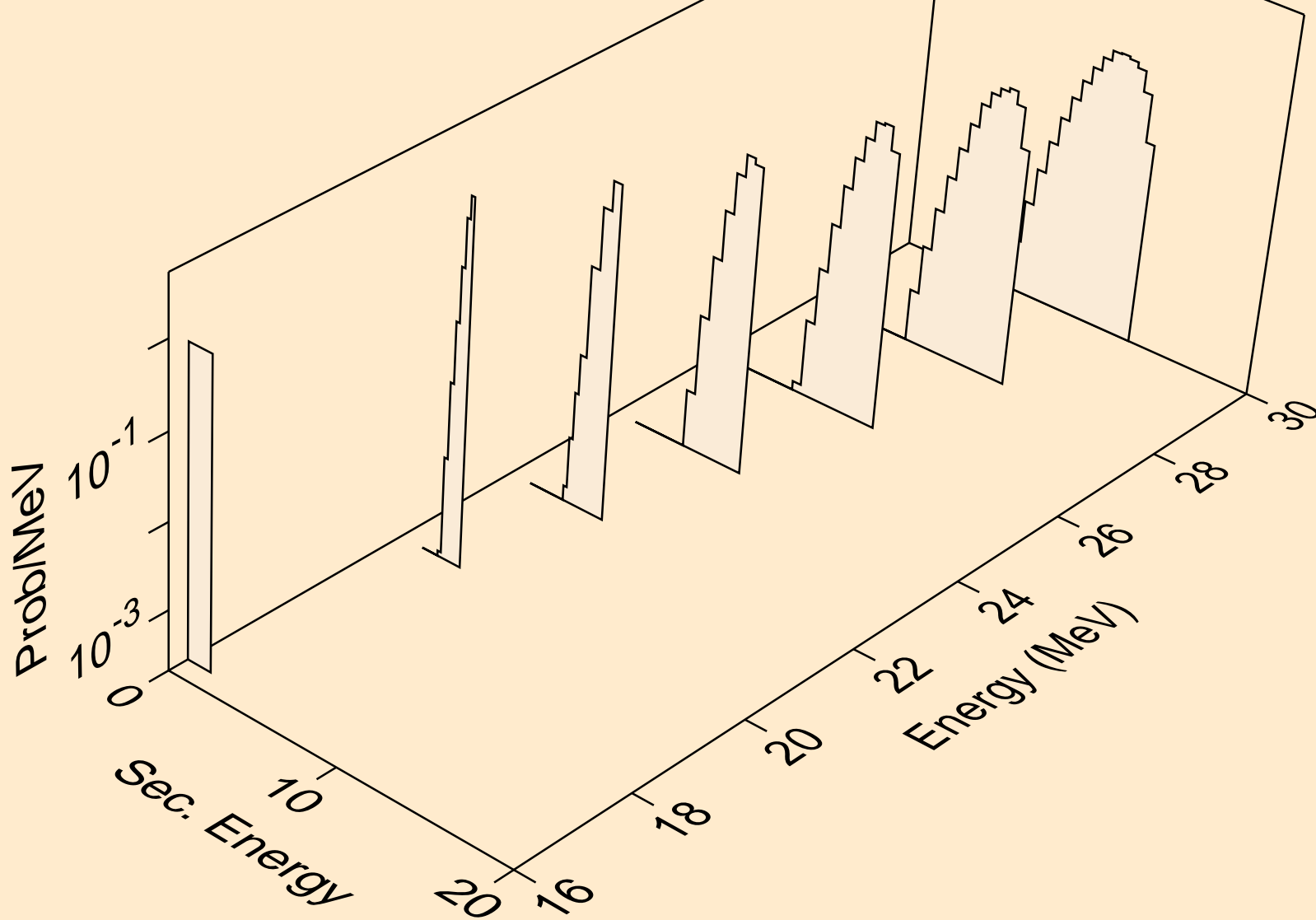
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tritons from (n,pt)



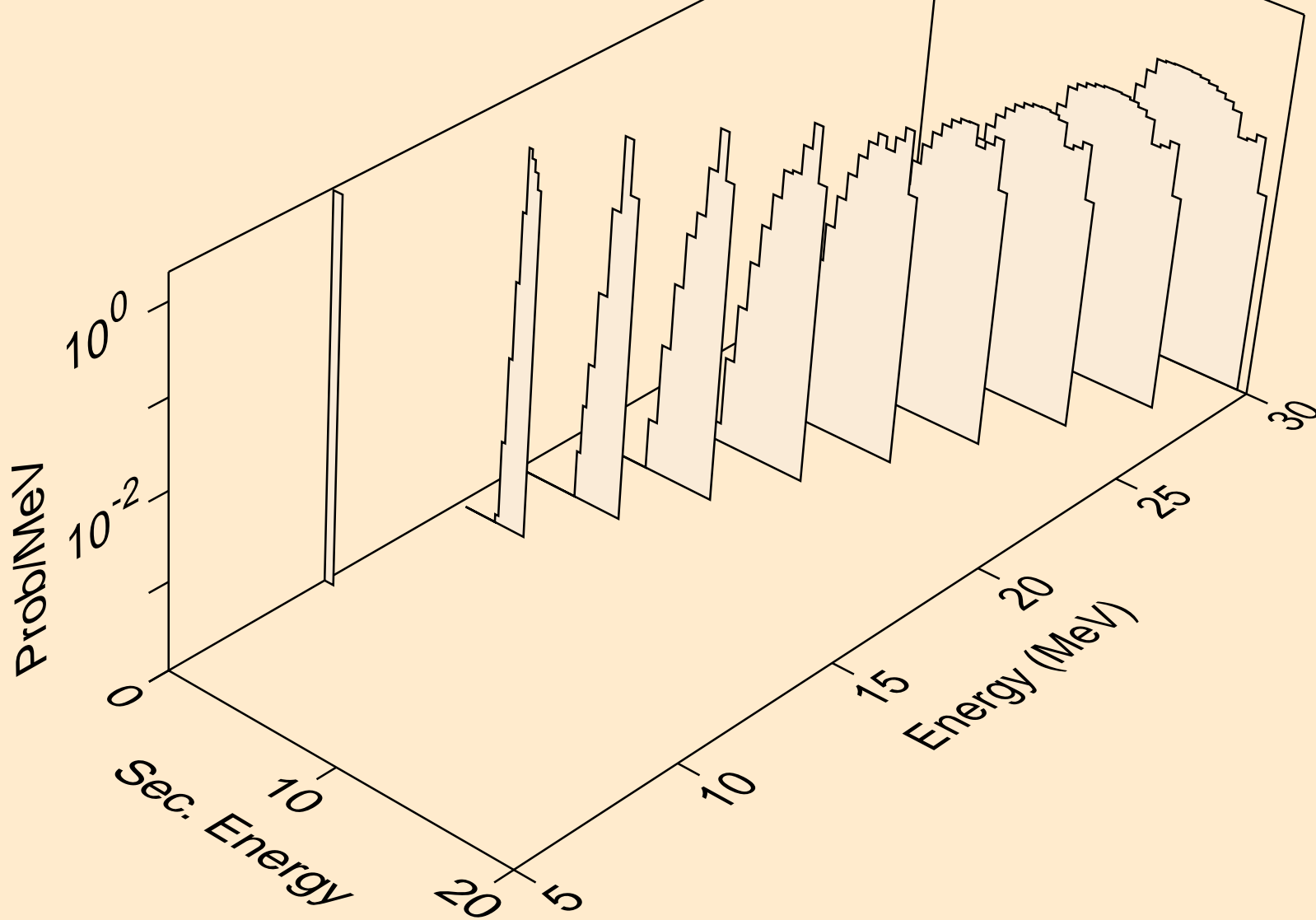
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he3s from (n,x)



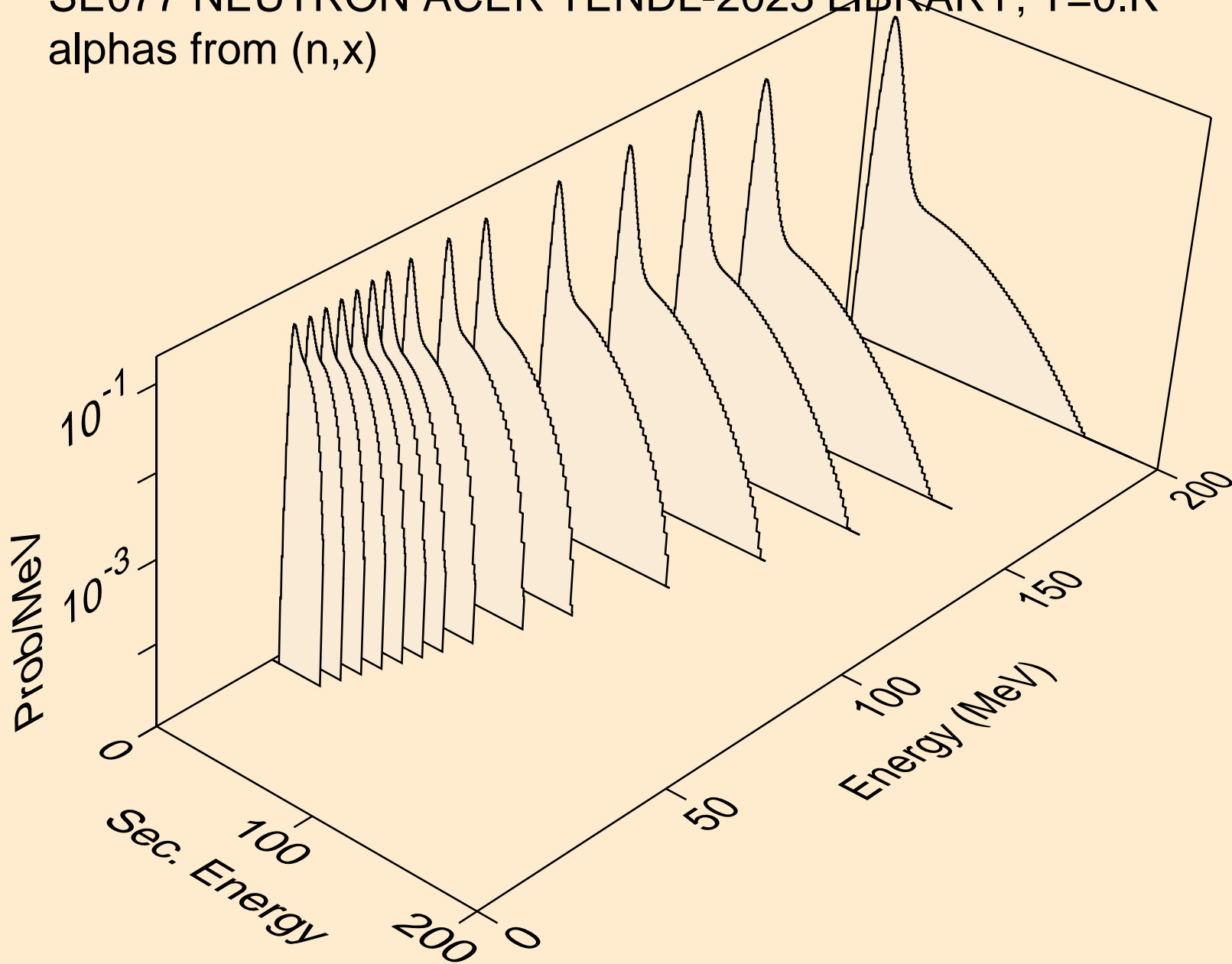
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he3s from (n,n\*)he3



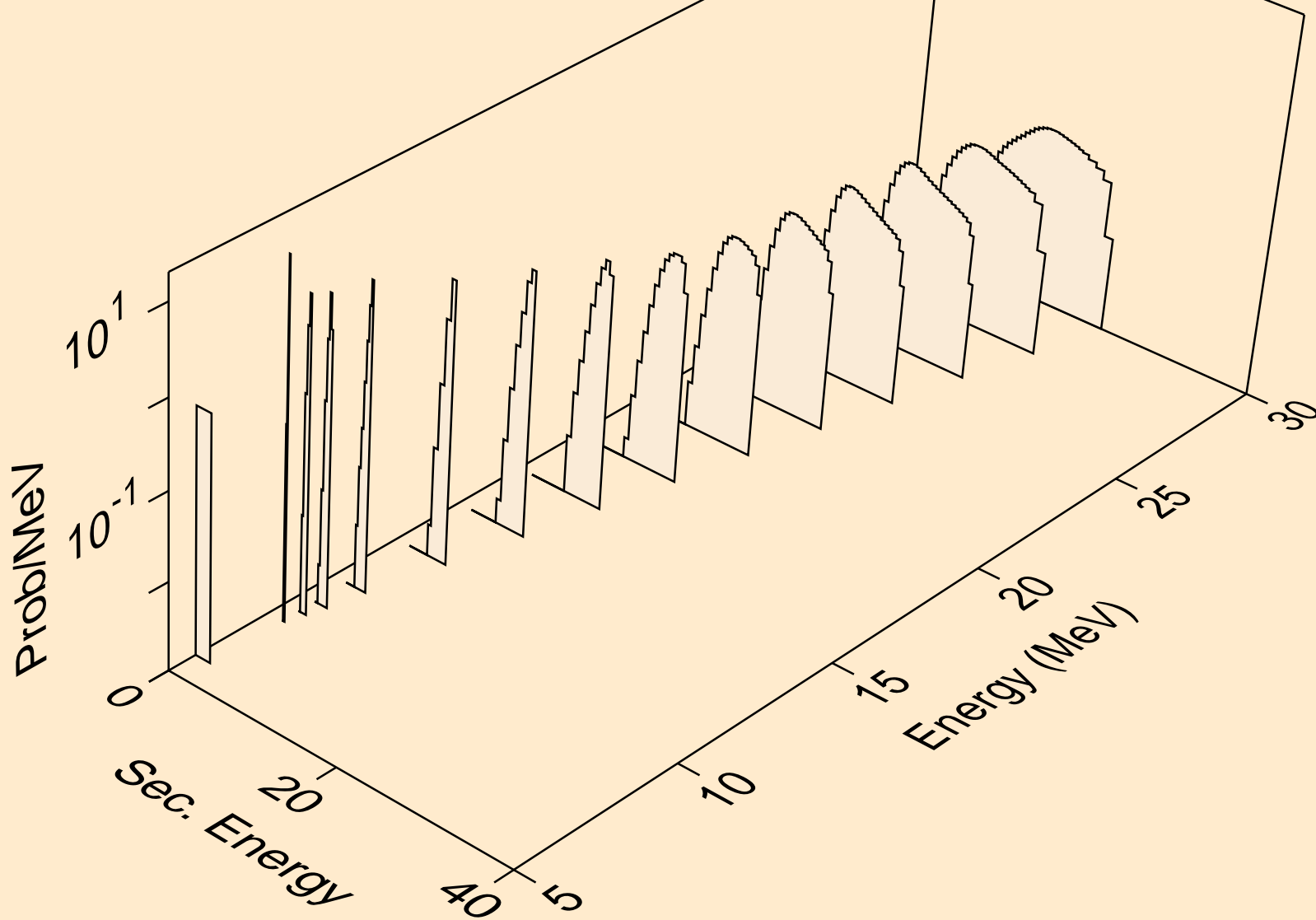
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)

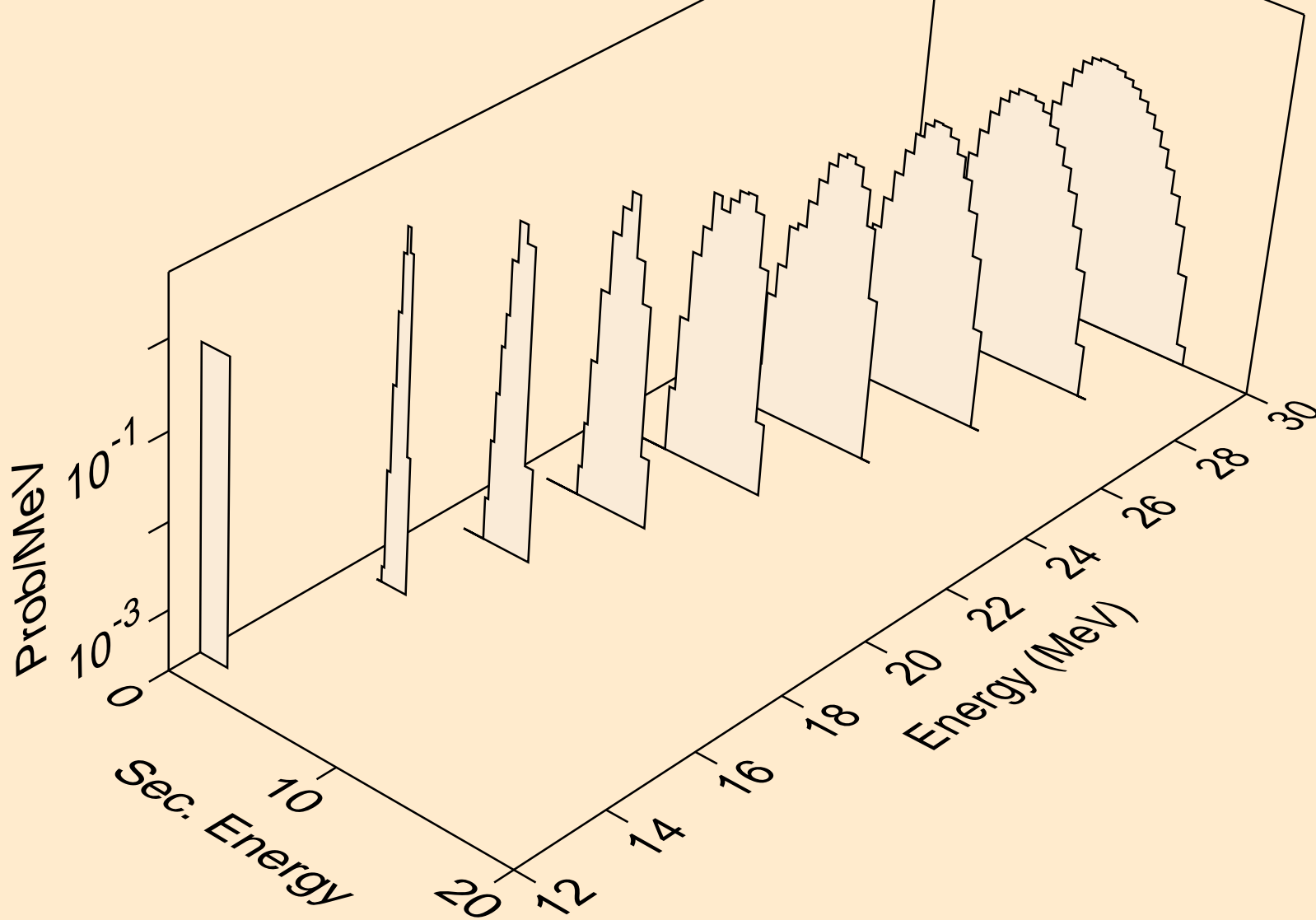


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alphas from (n,n\*)a

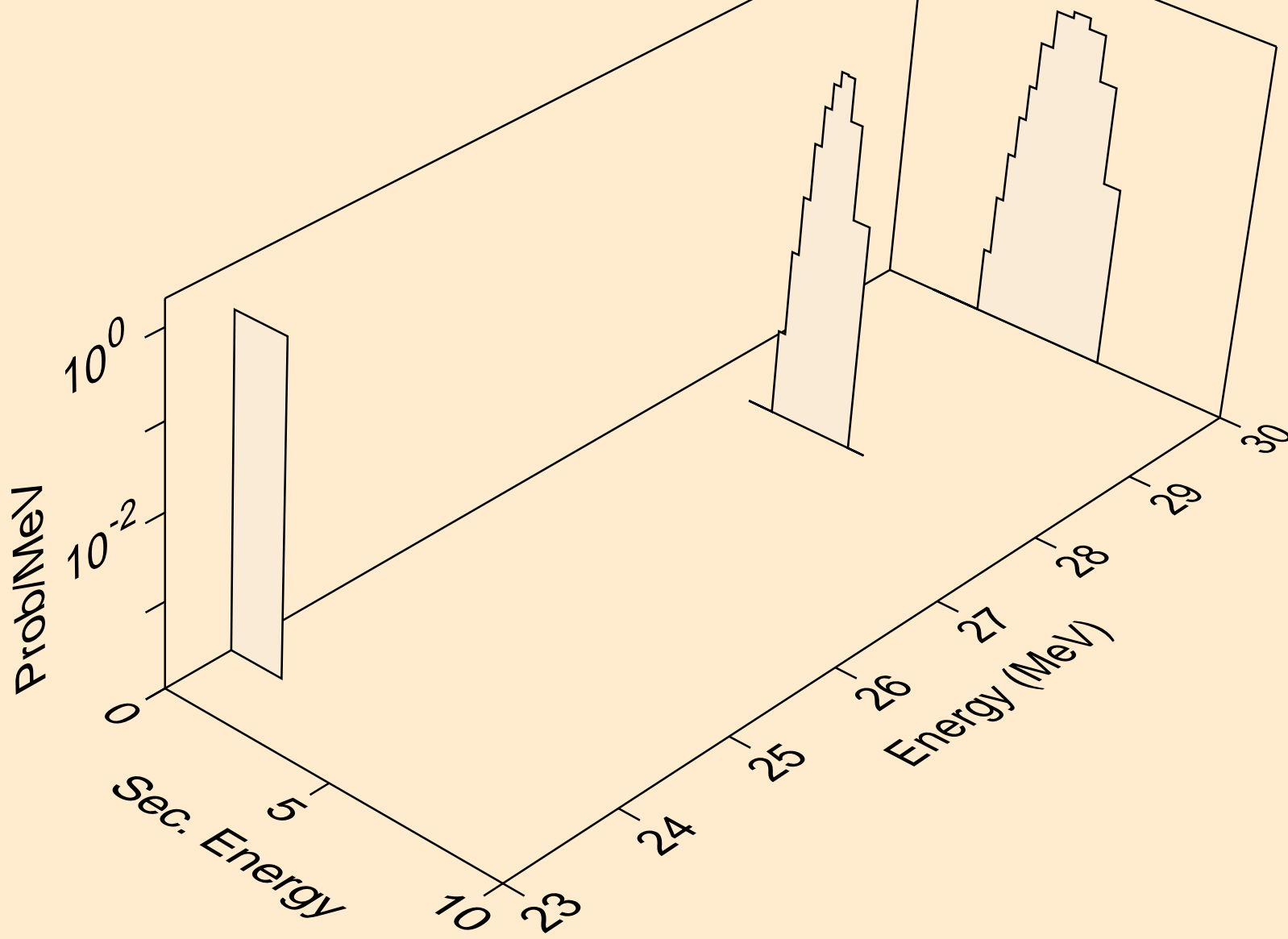




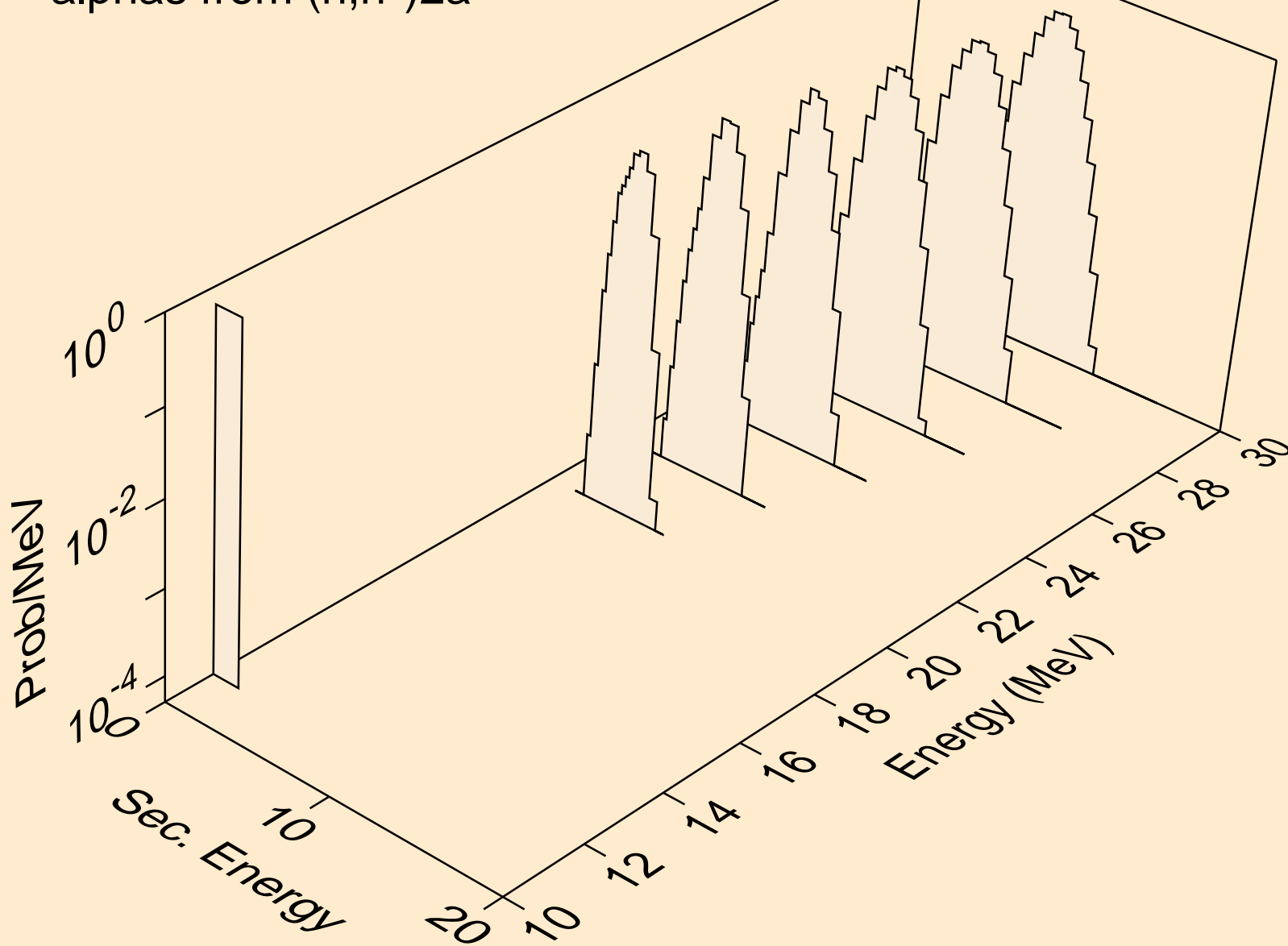
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alphas from (n,2n)a



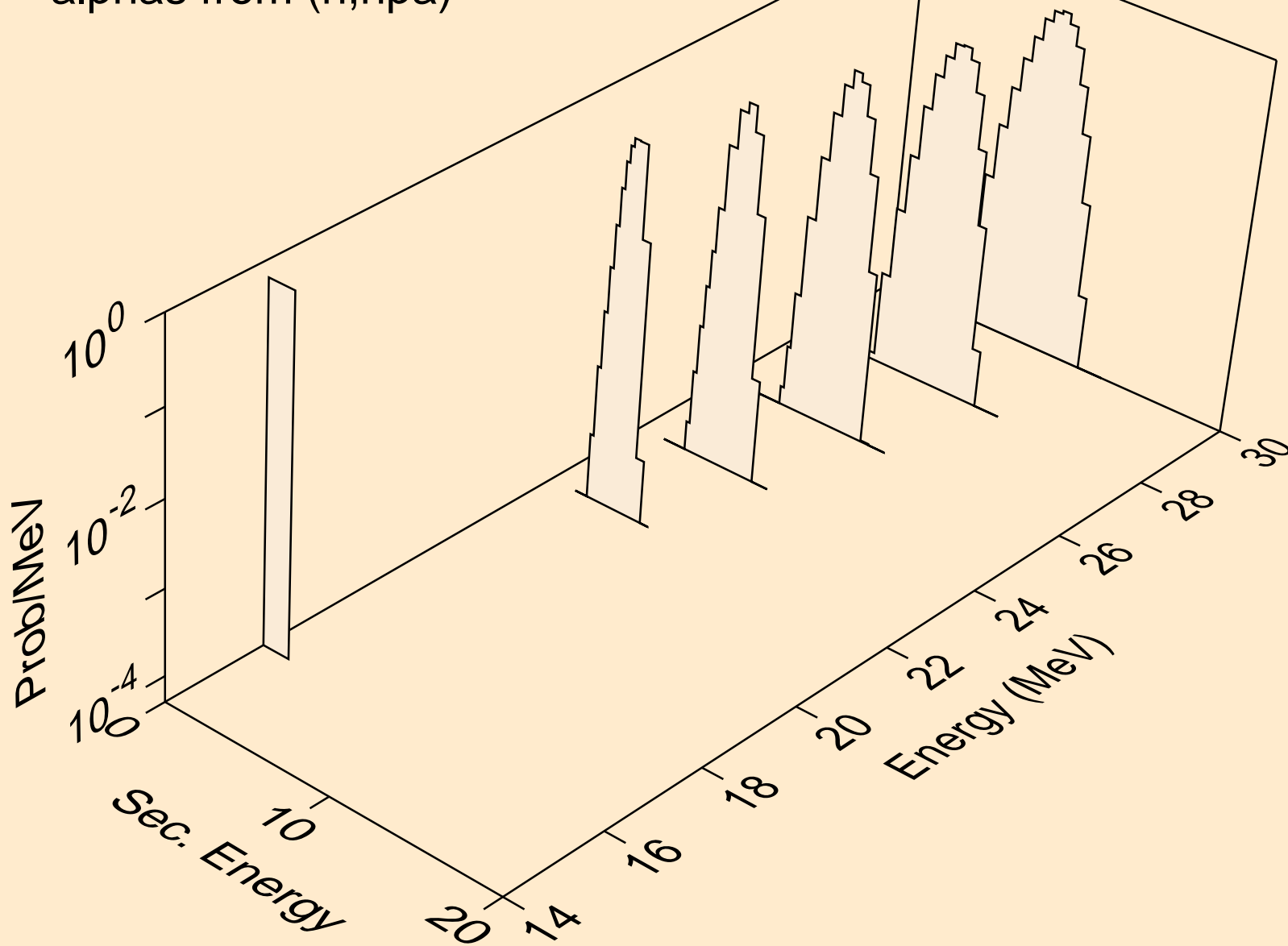
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alphas from (n,3n)a



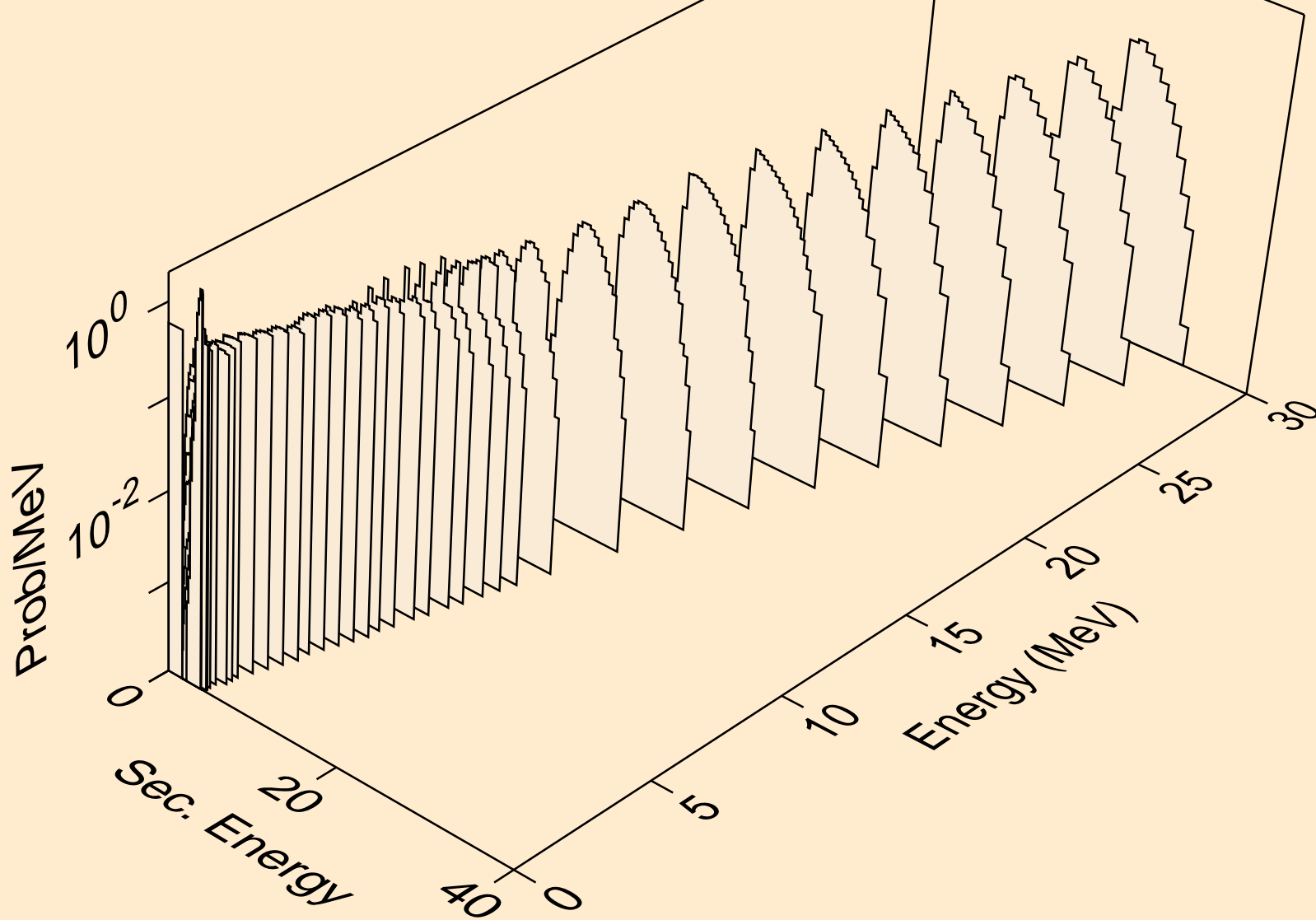
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alphas from (n,n\*)2a



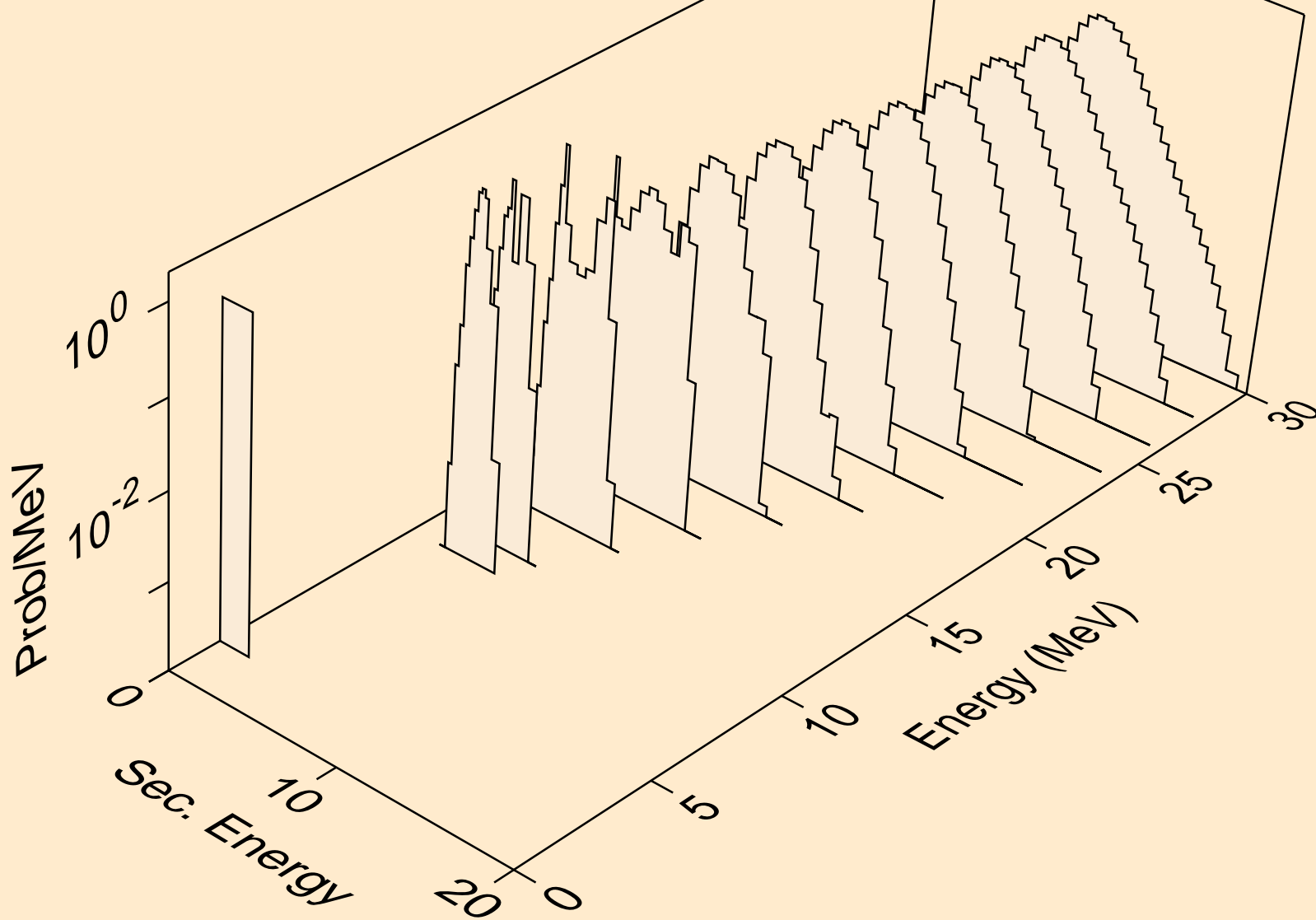
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alphas from (n,npa)



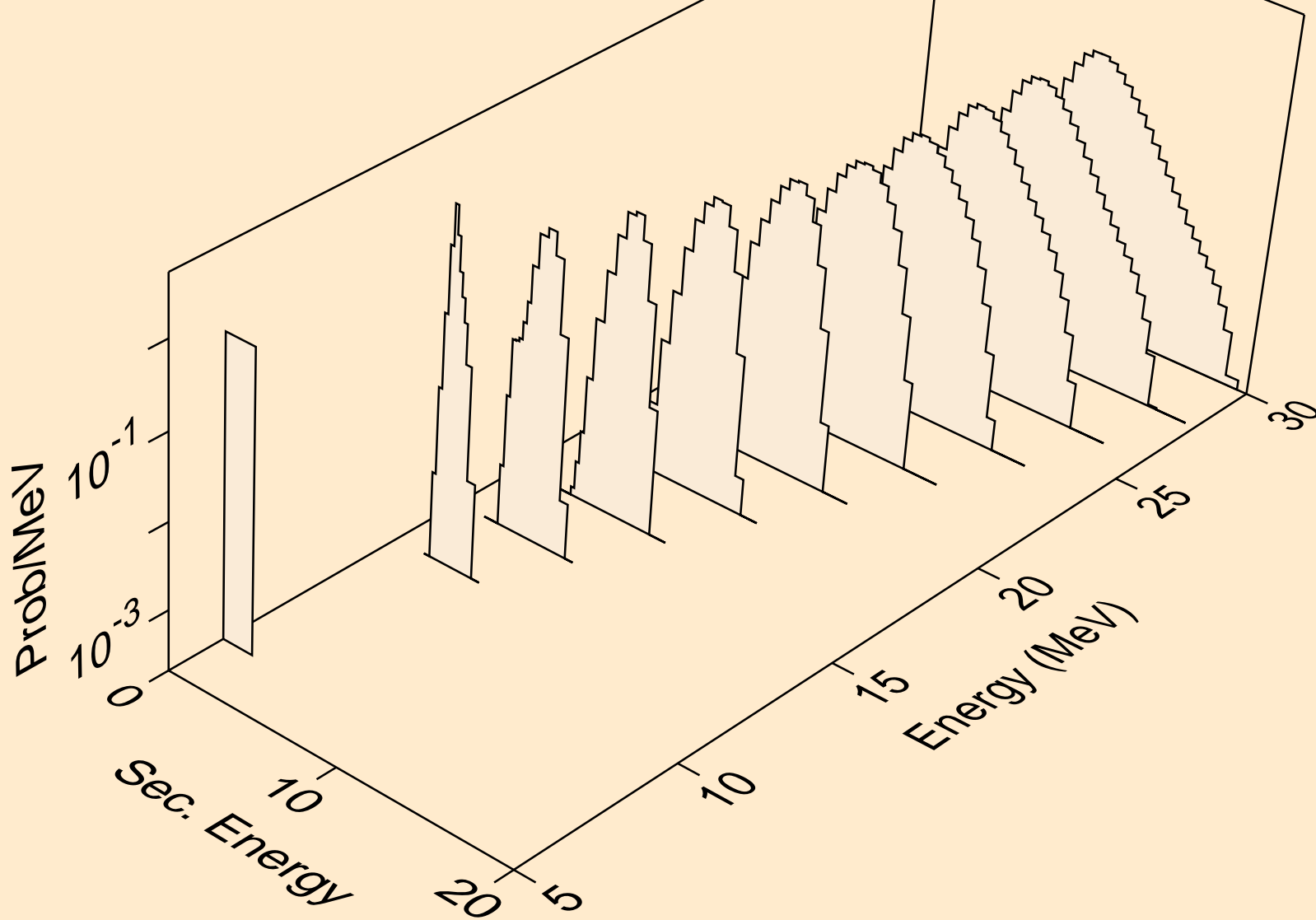
SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



SE077 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

