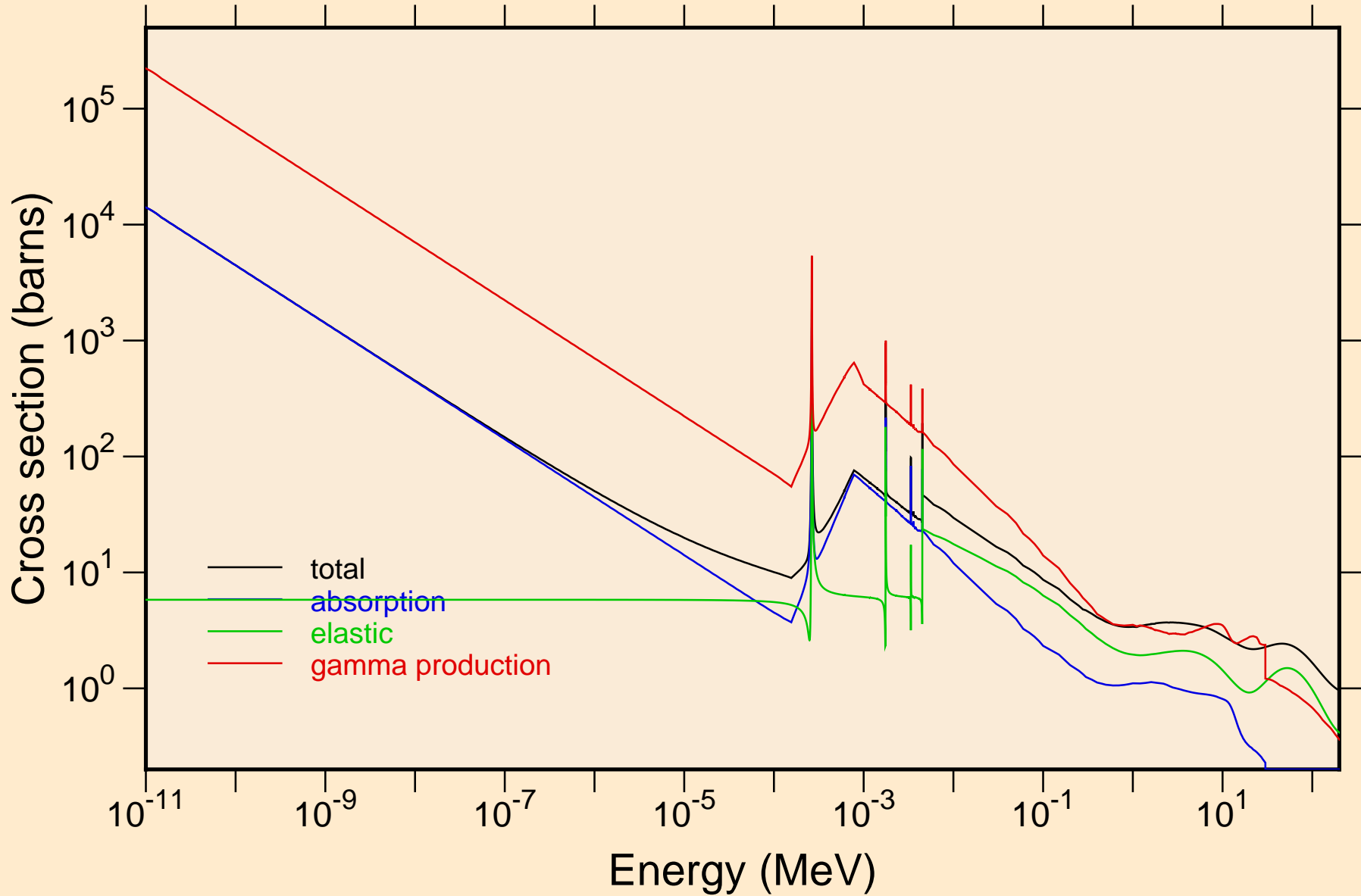
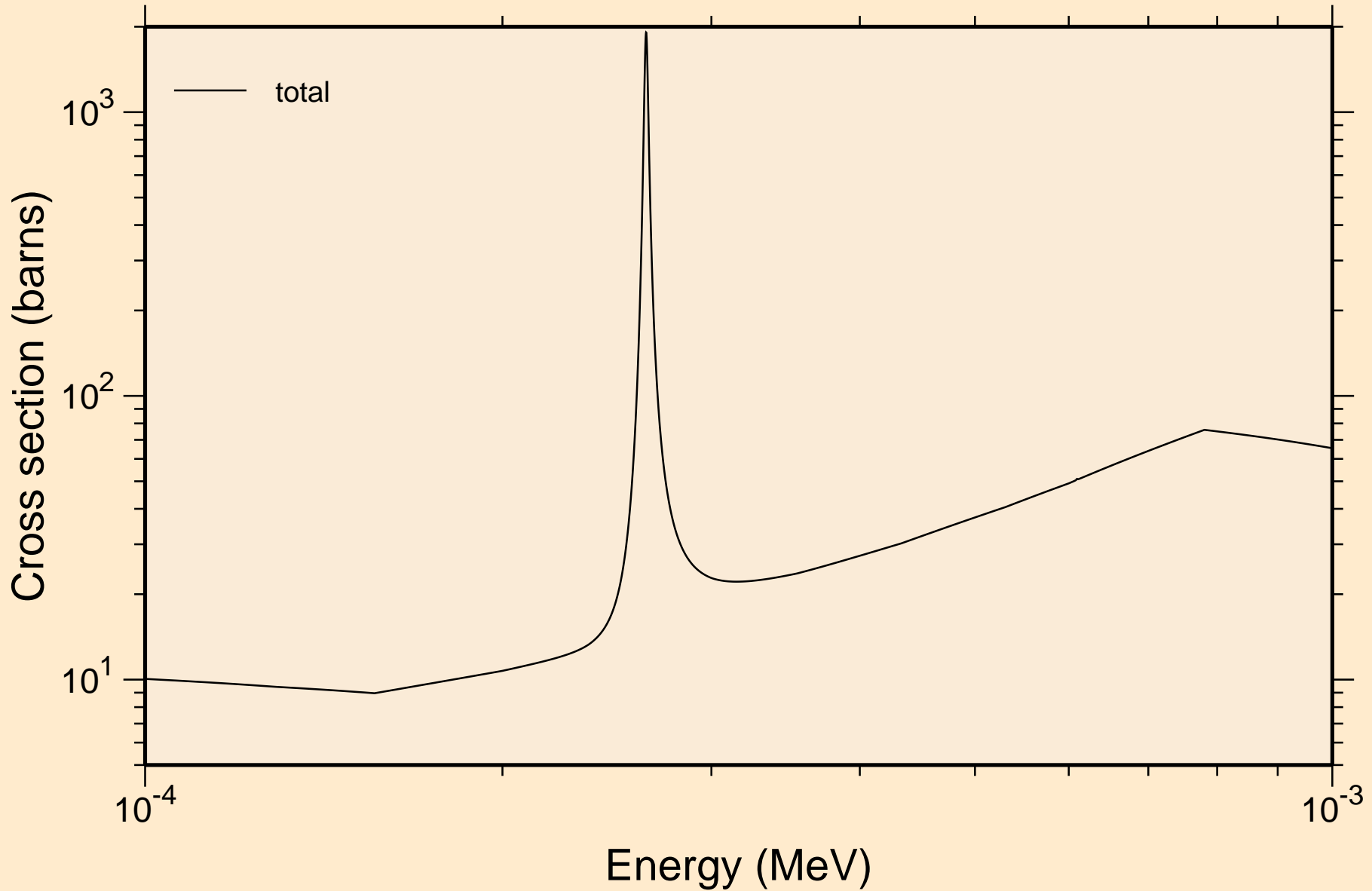


# CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

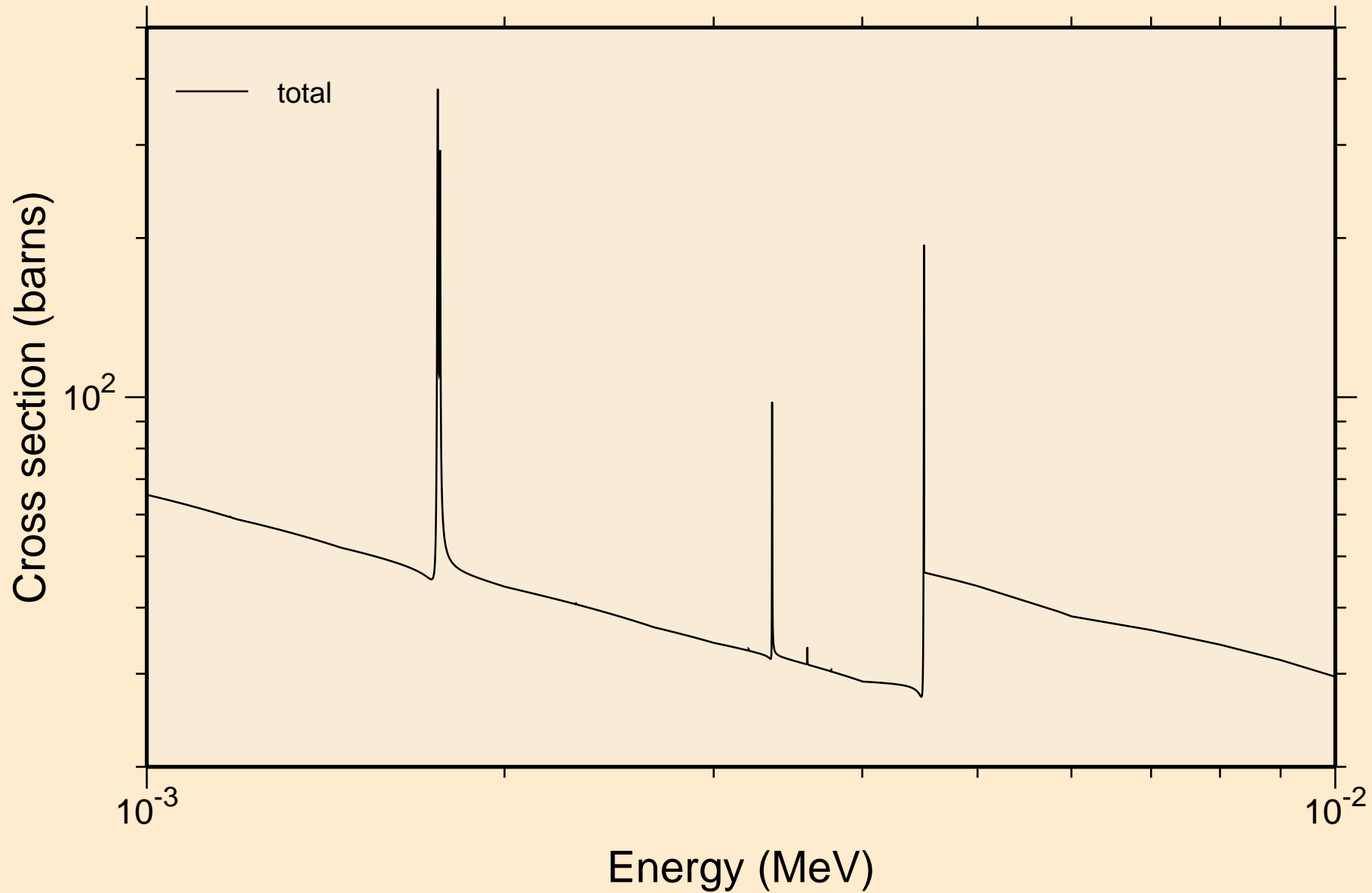
## Principal cross sections



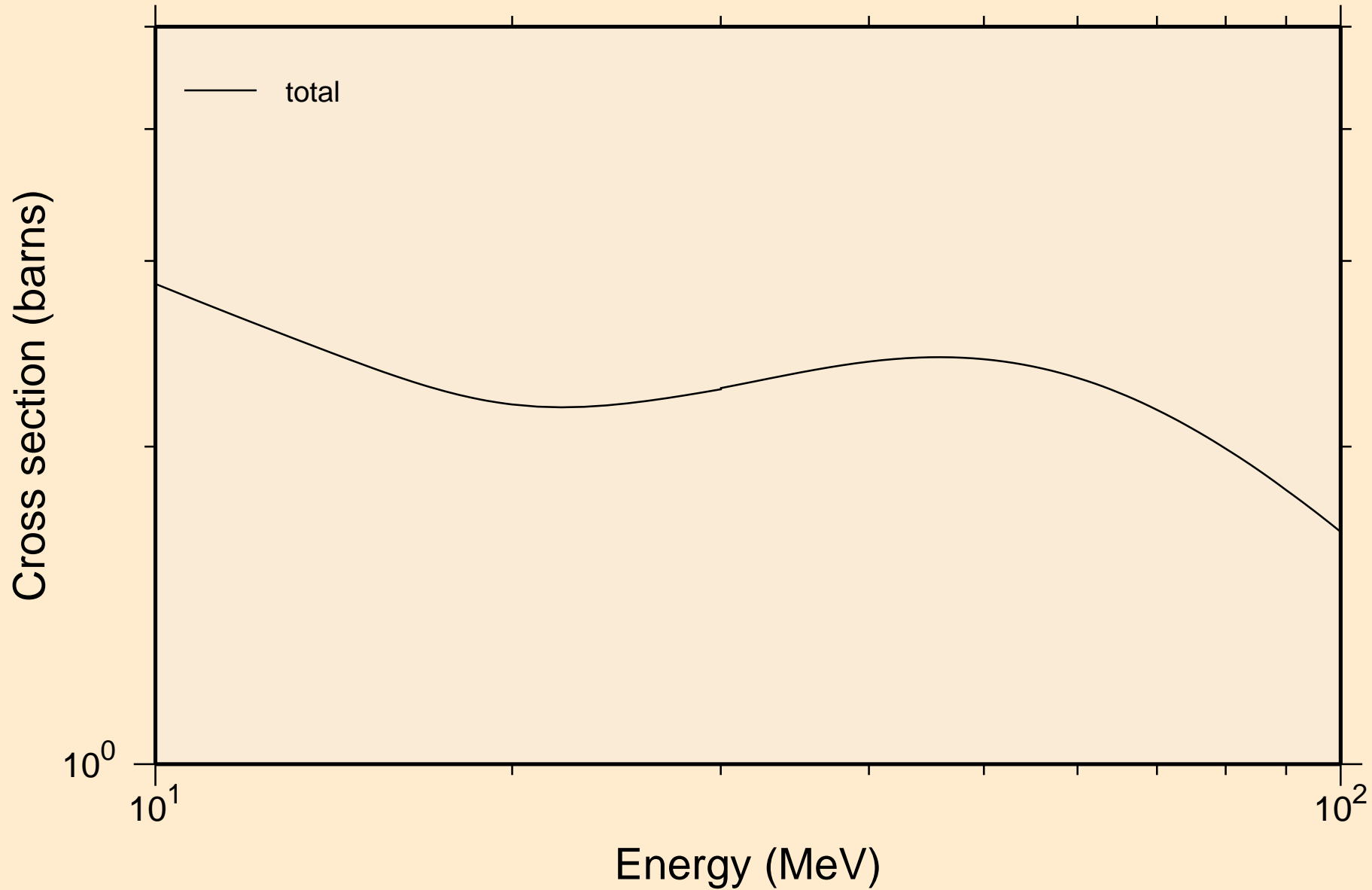
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resonance total cross section



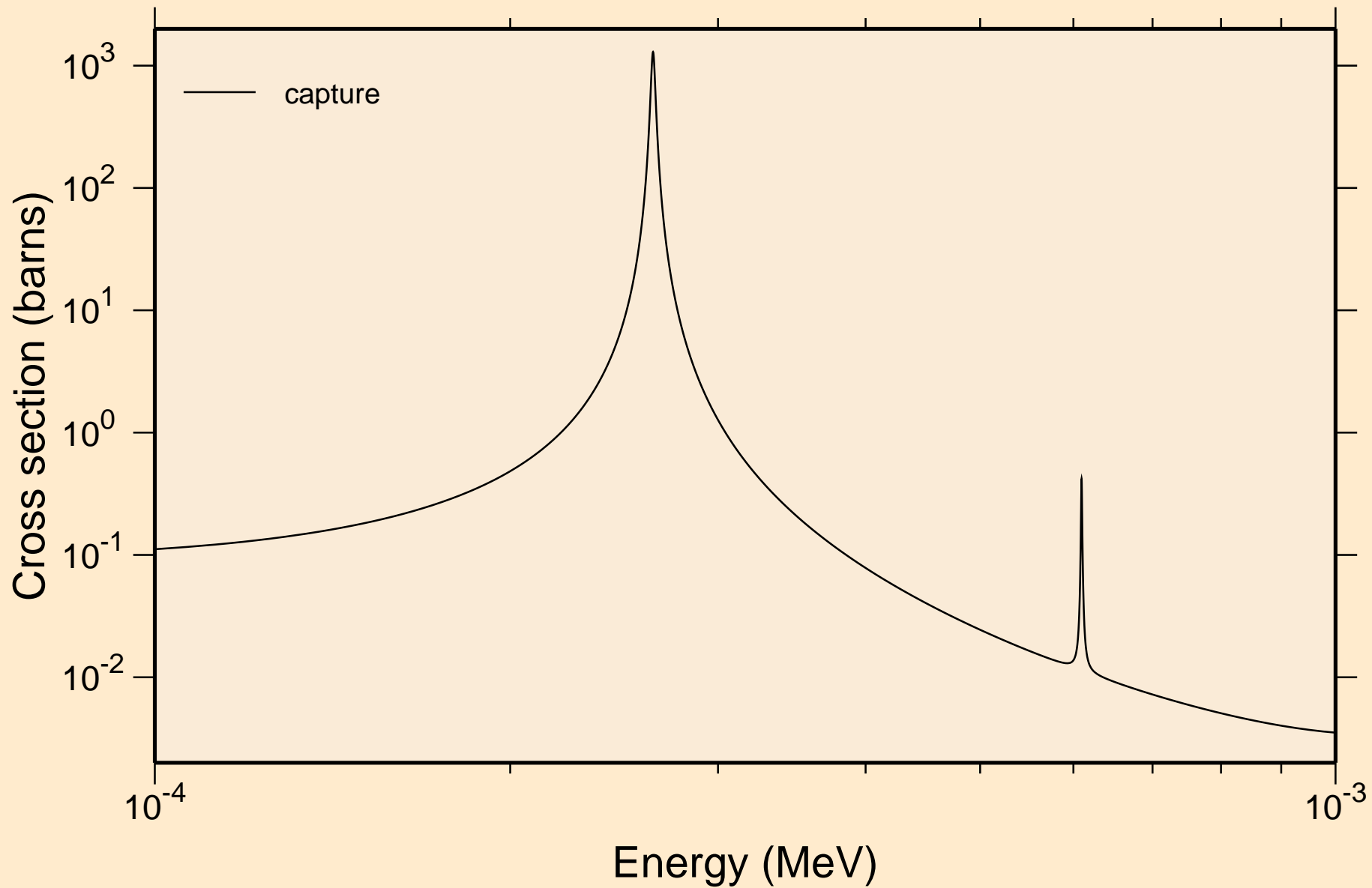
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



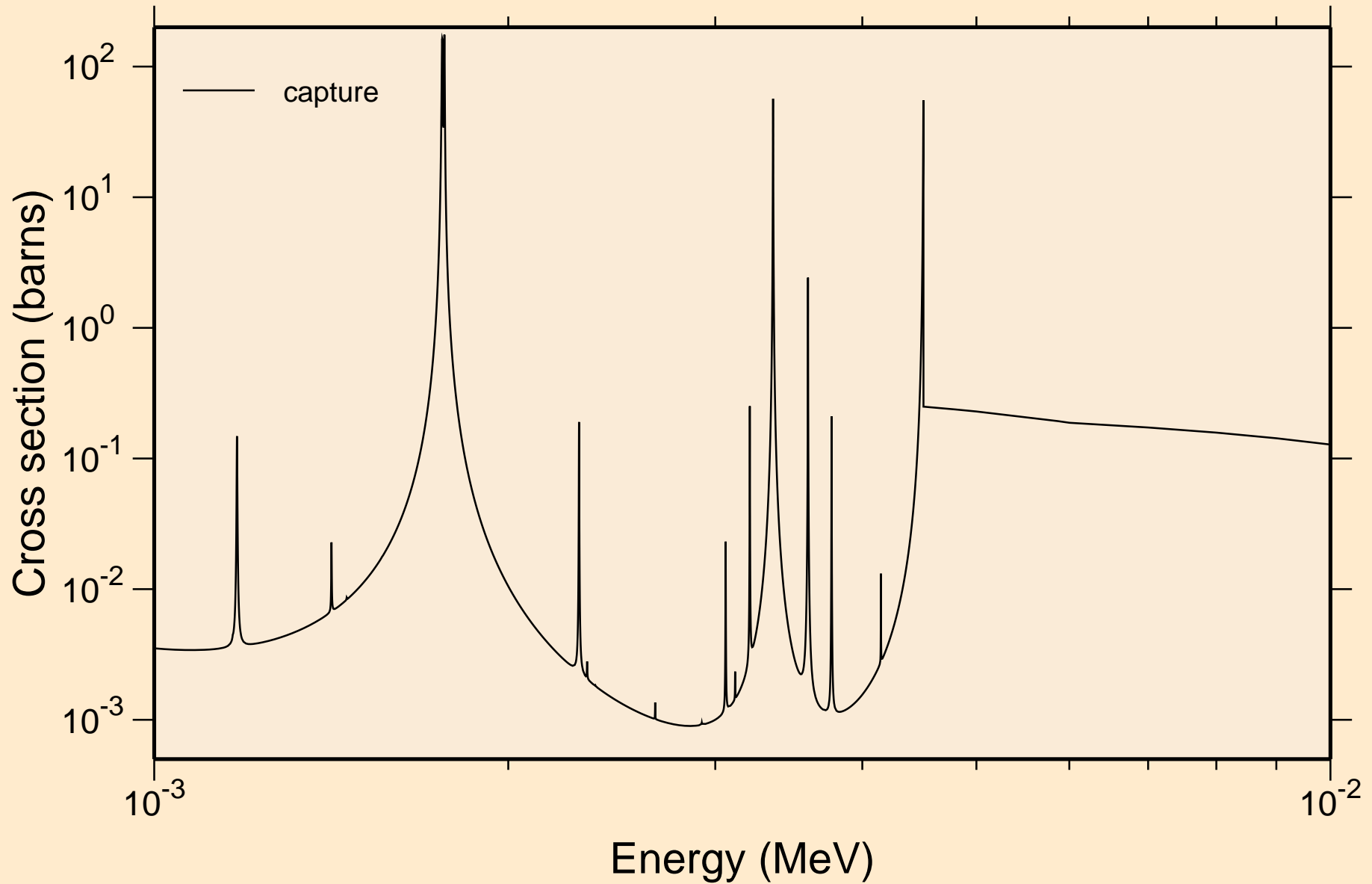
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resonance total cross section



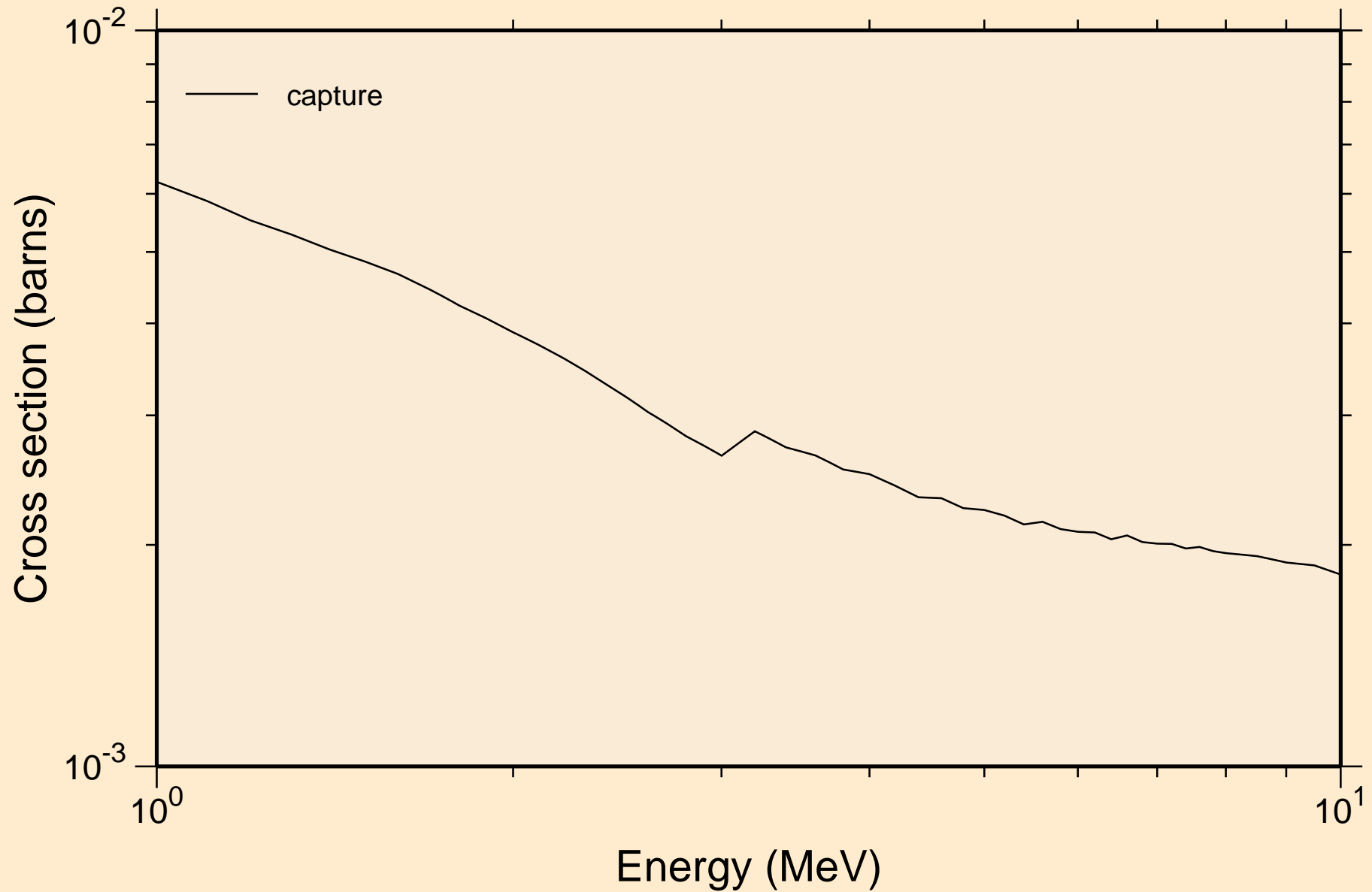
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



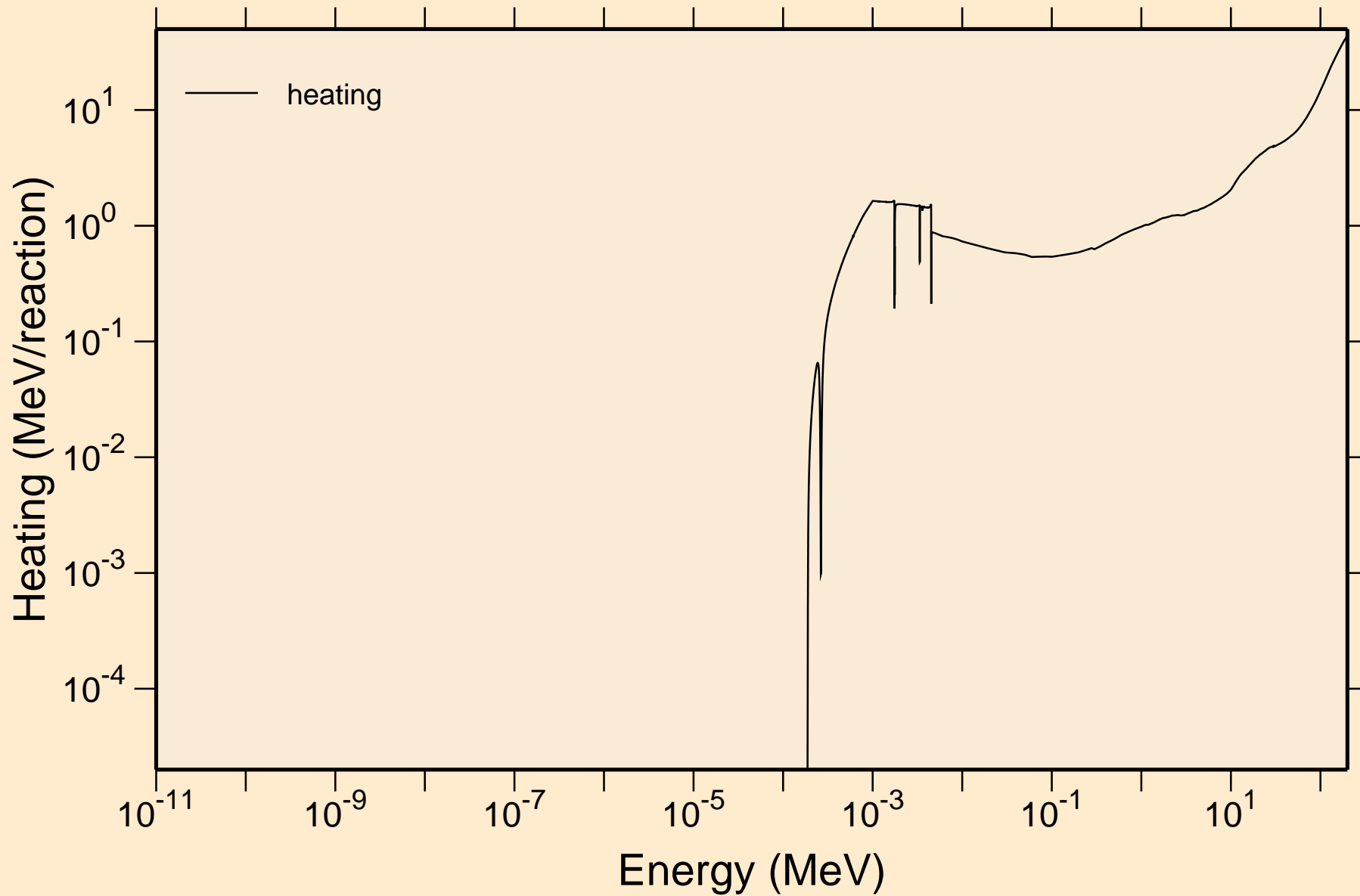
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

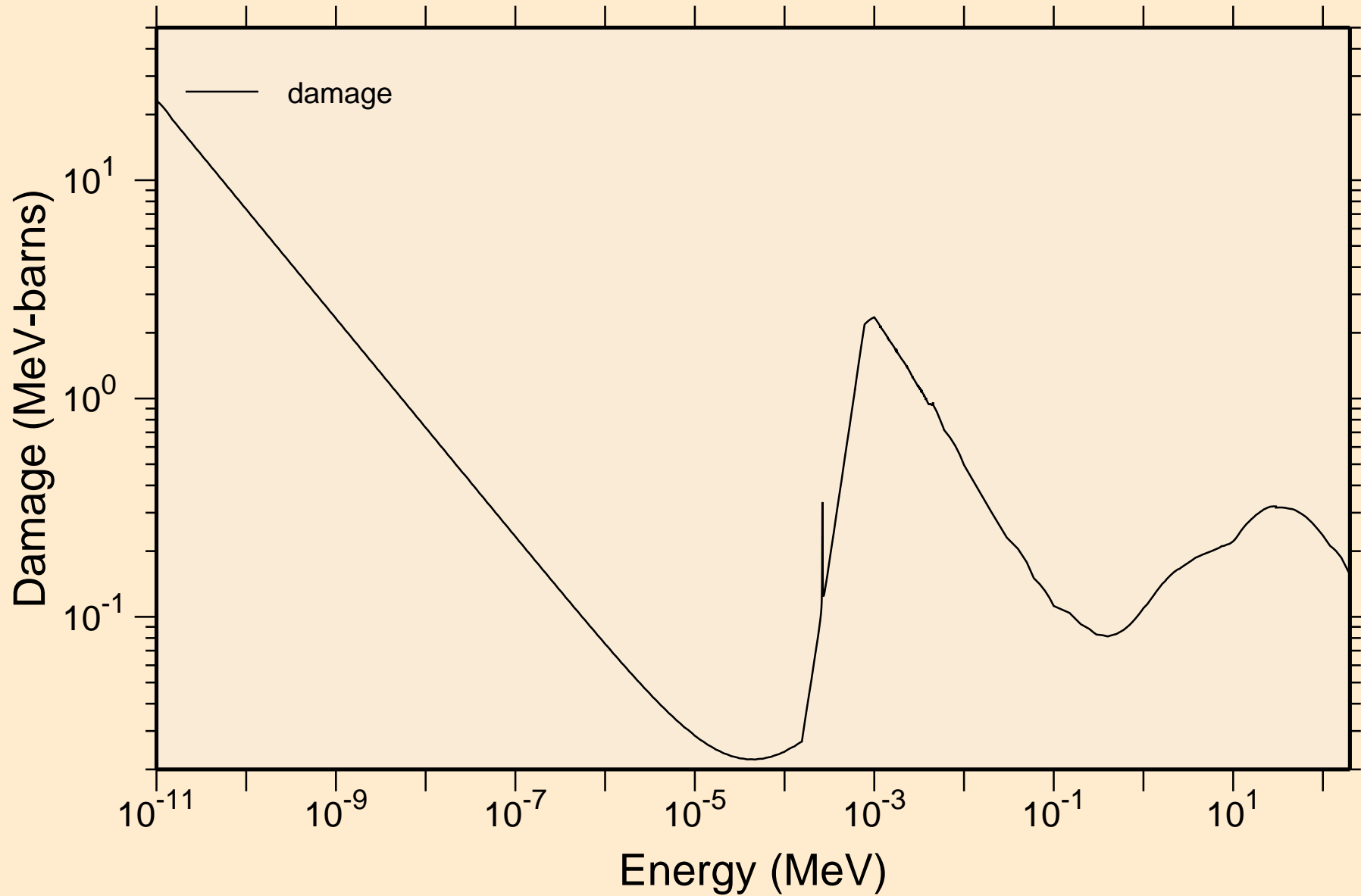


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



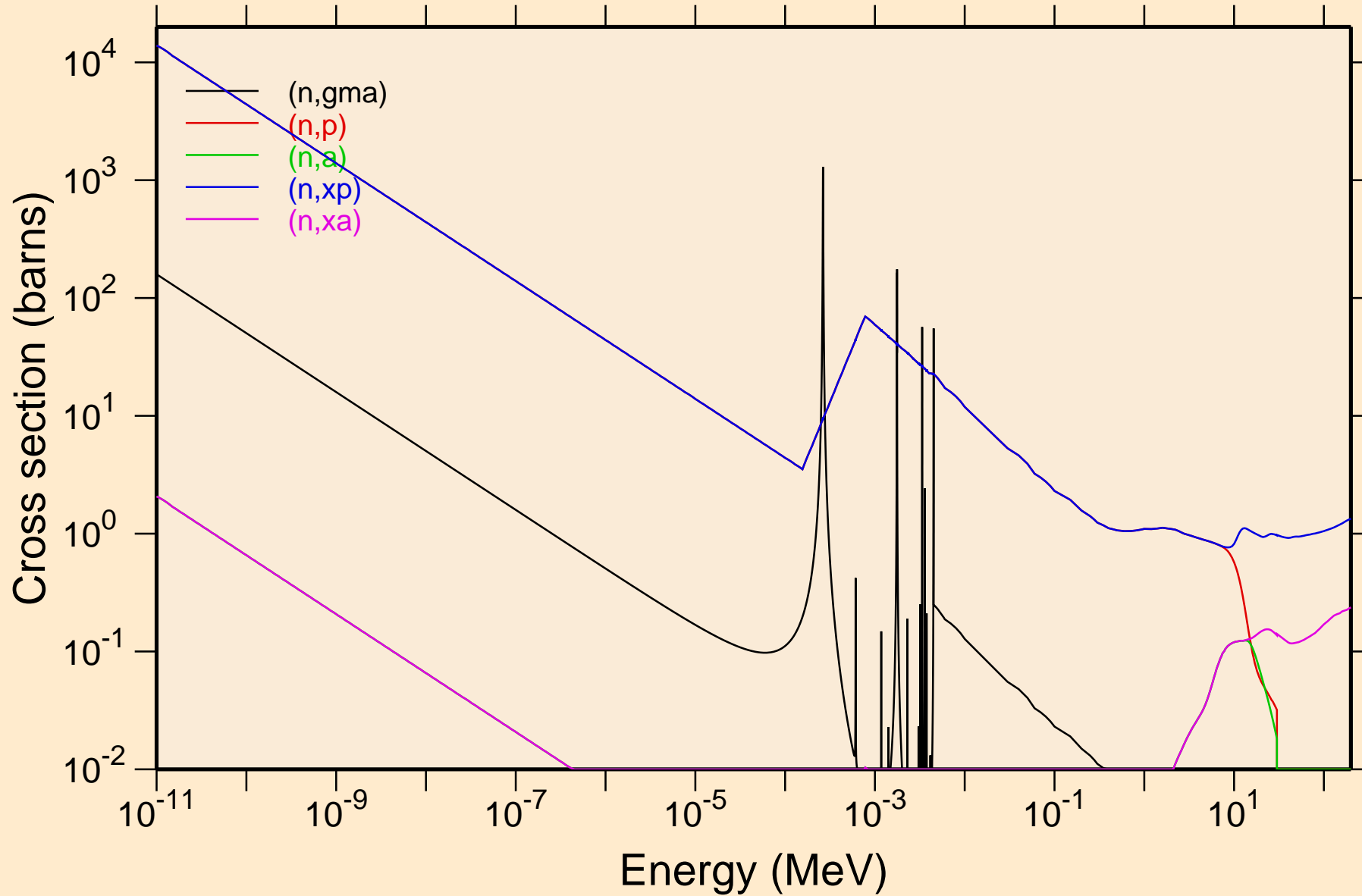


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



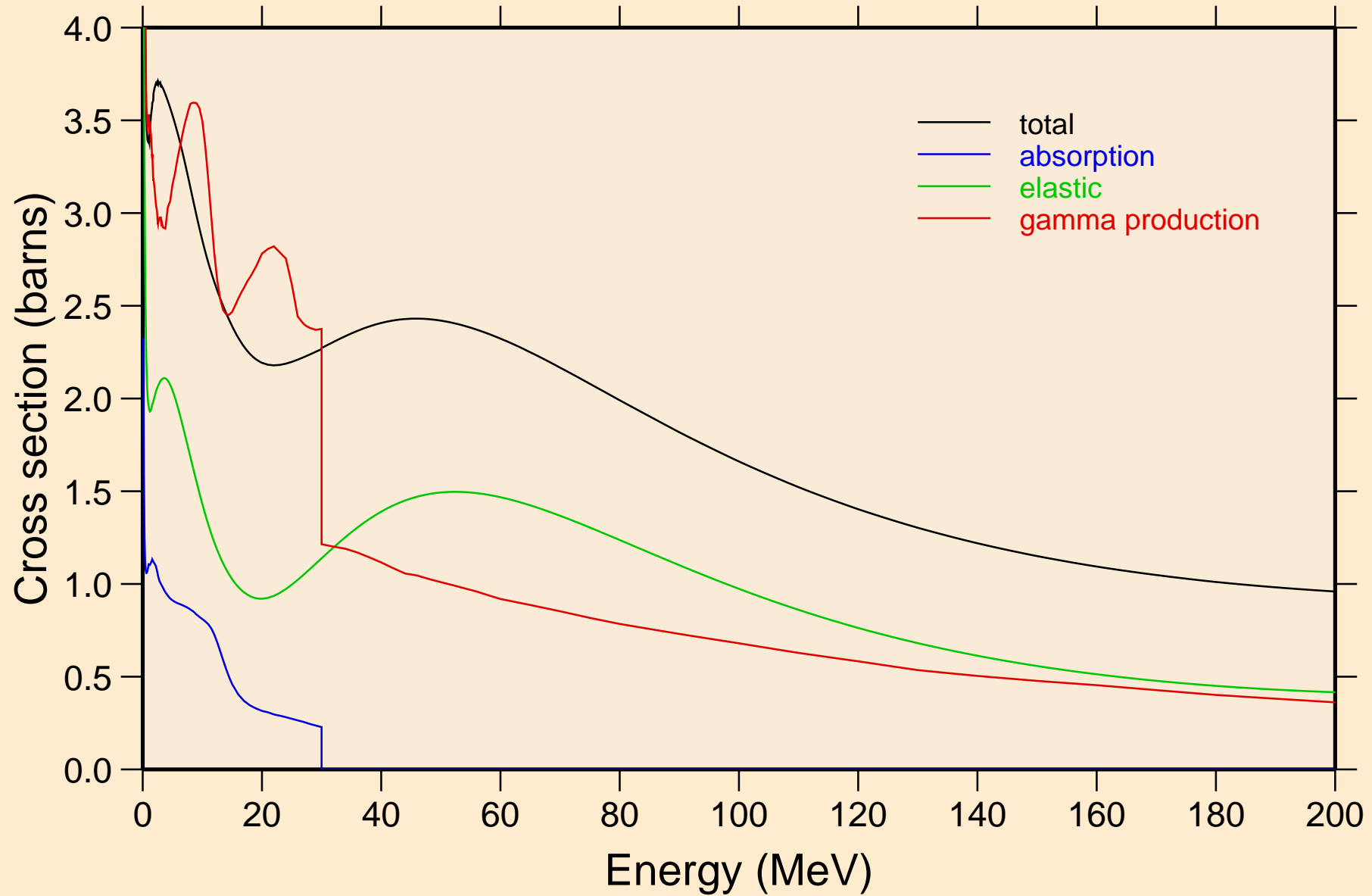
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## Non-threshold reactions



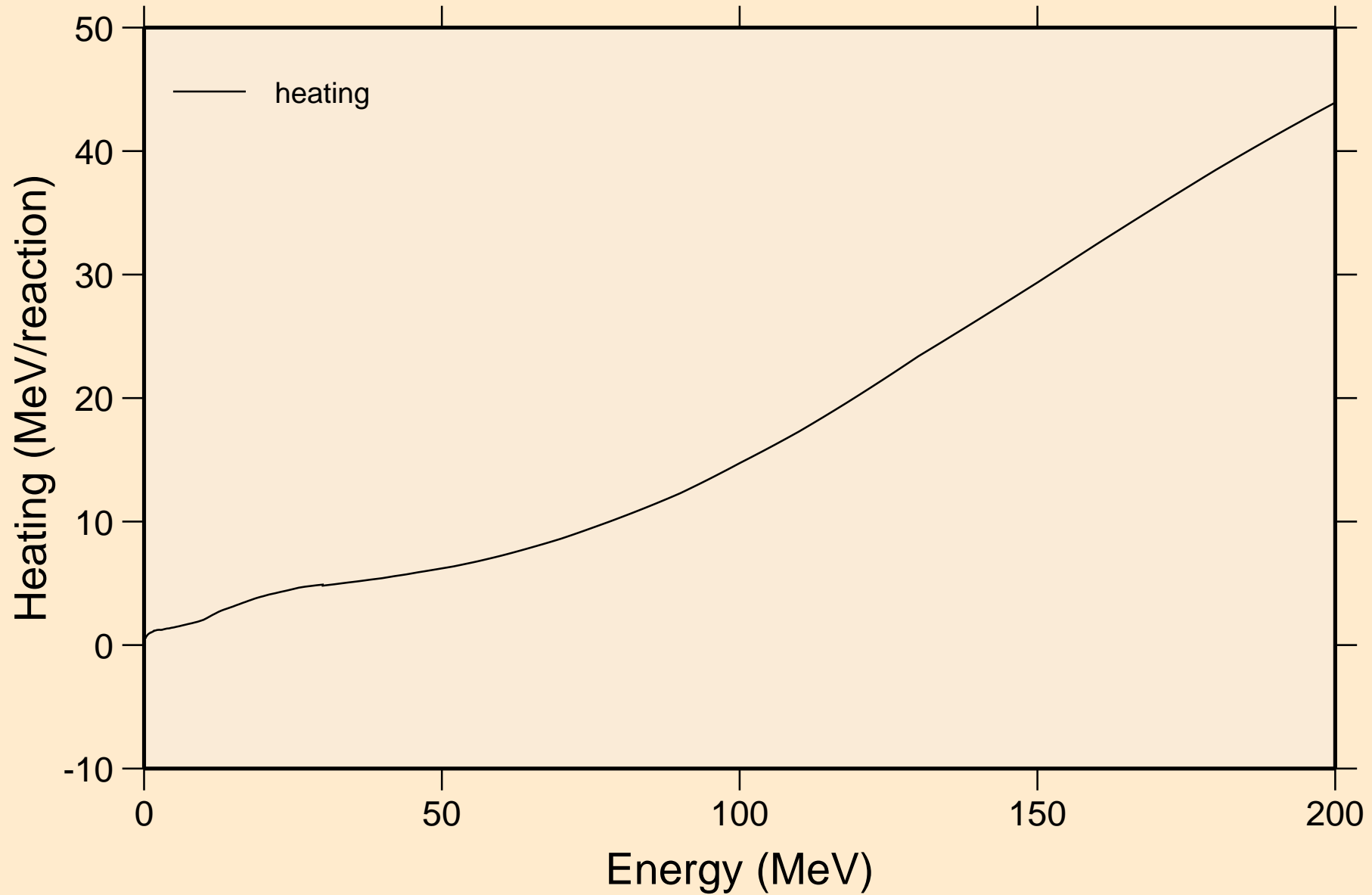
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## Principal cross sections

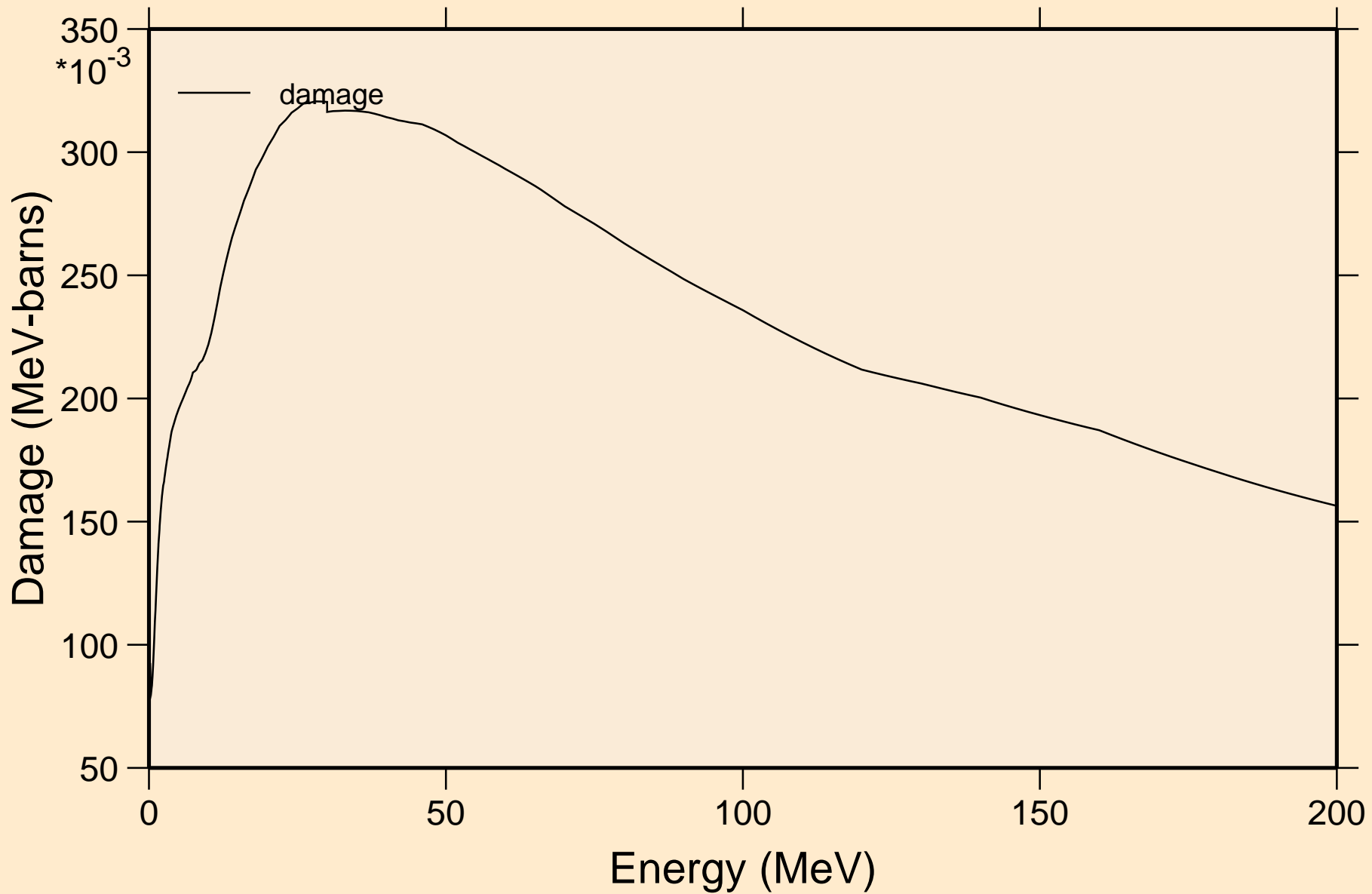


# CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

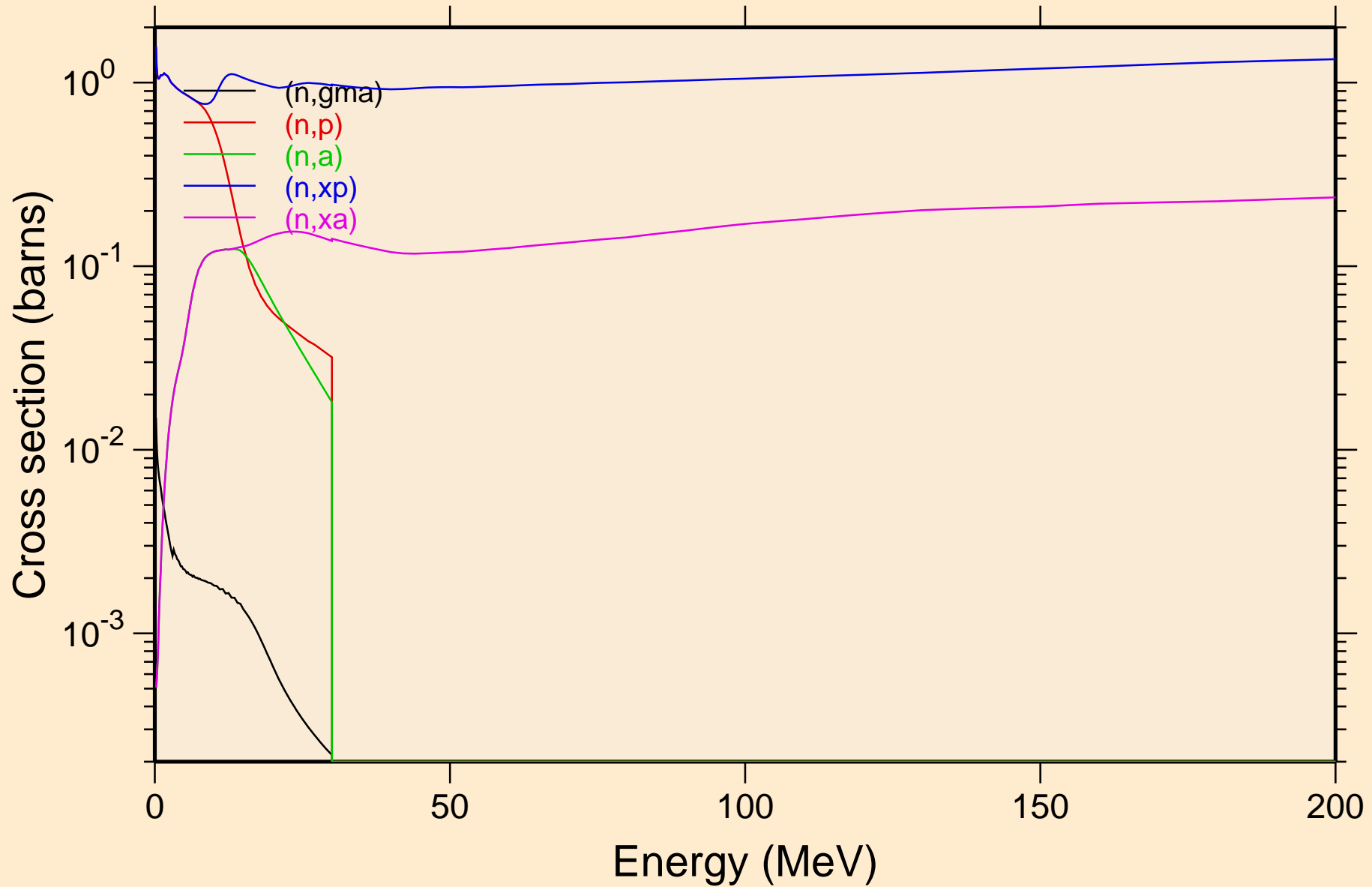


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

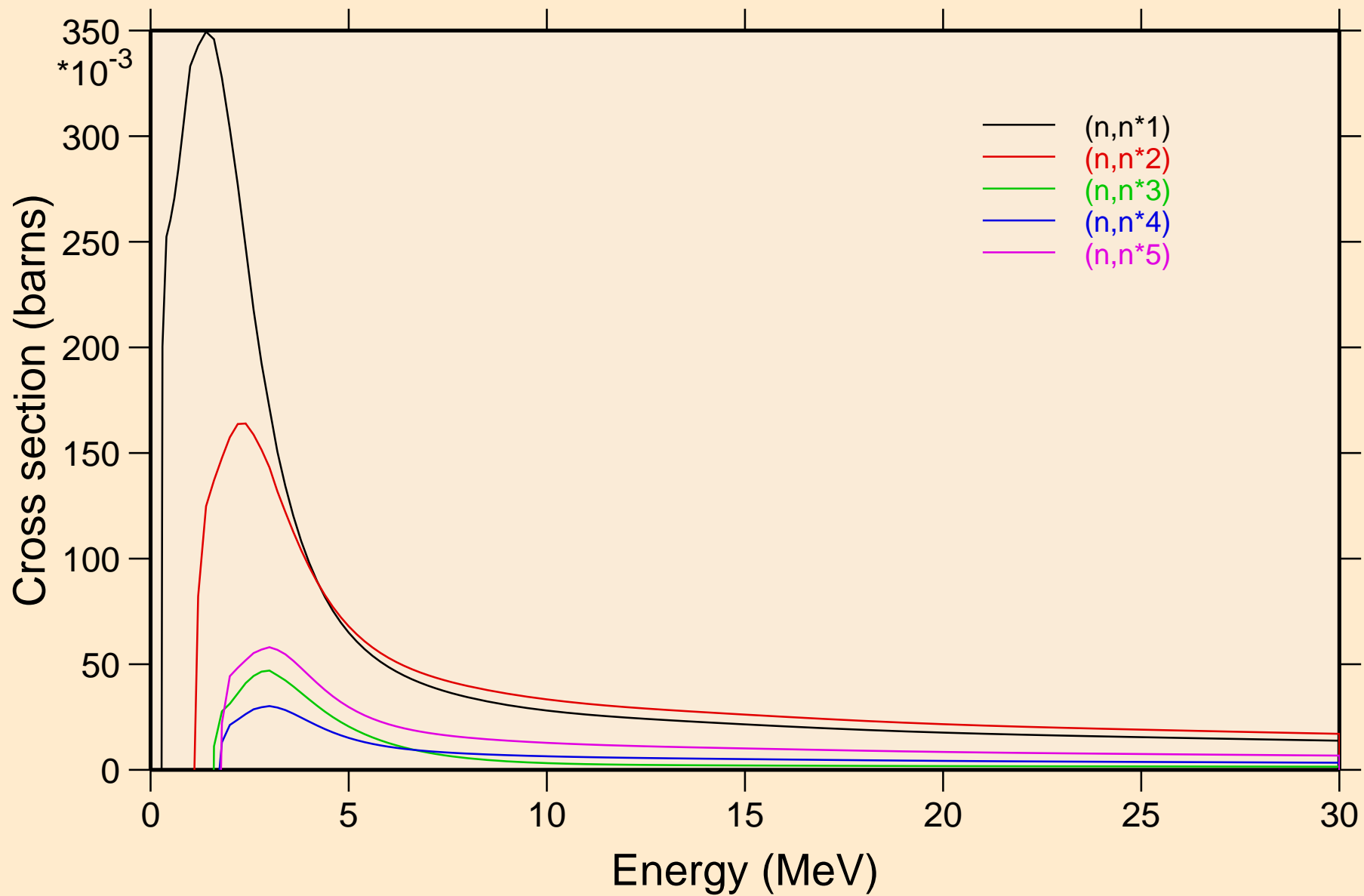


# CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

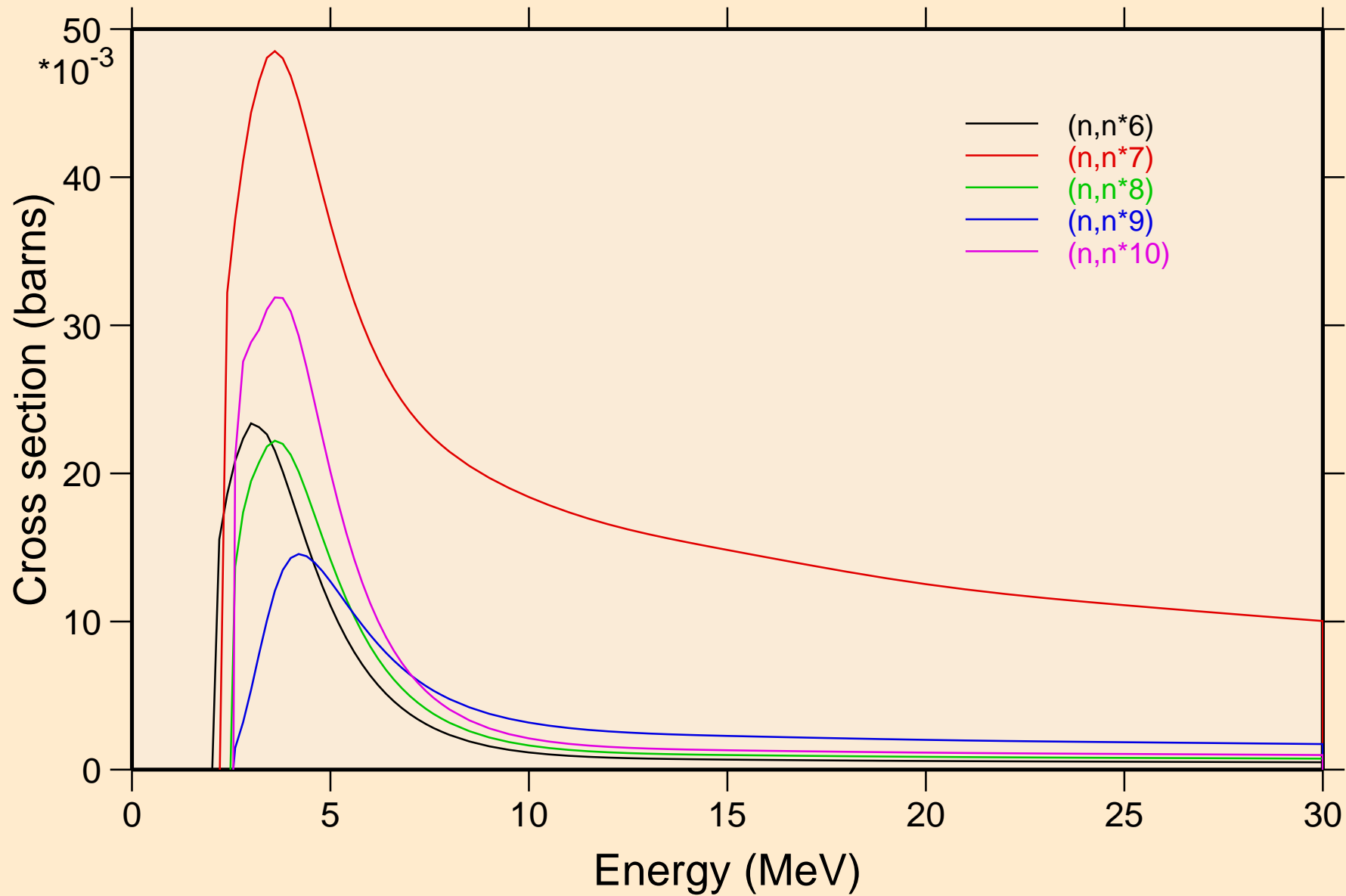
## Non-threshold reactions



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

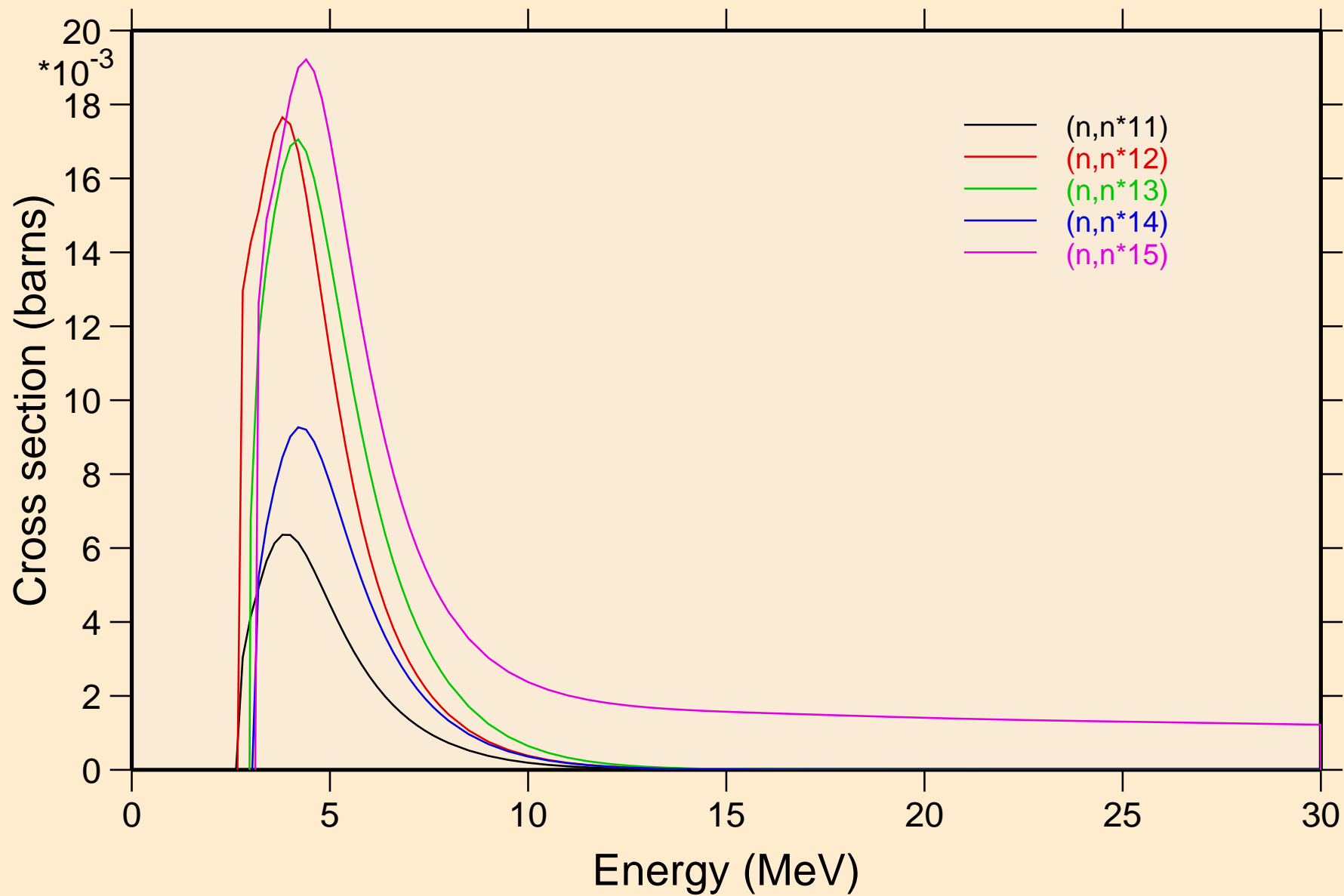


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

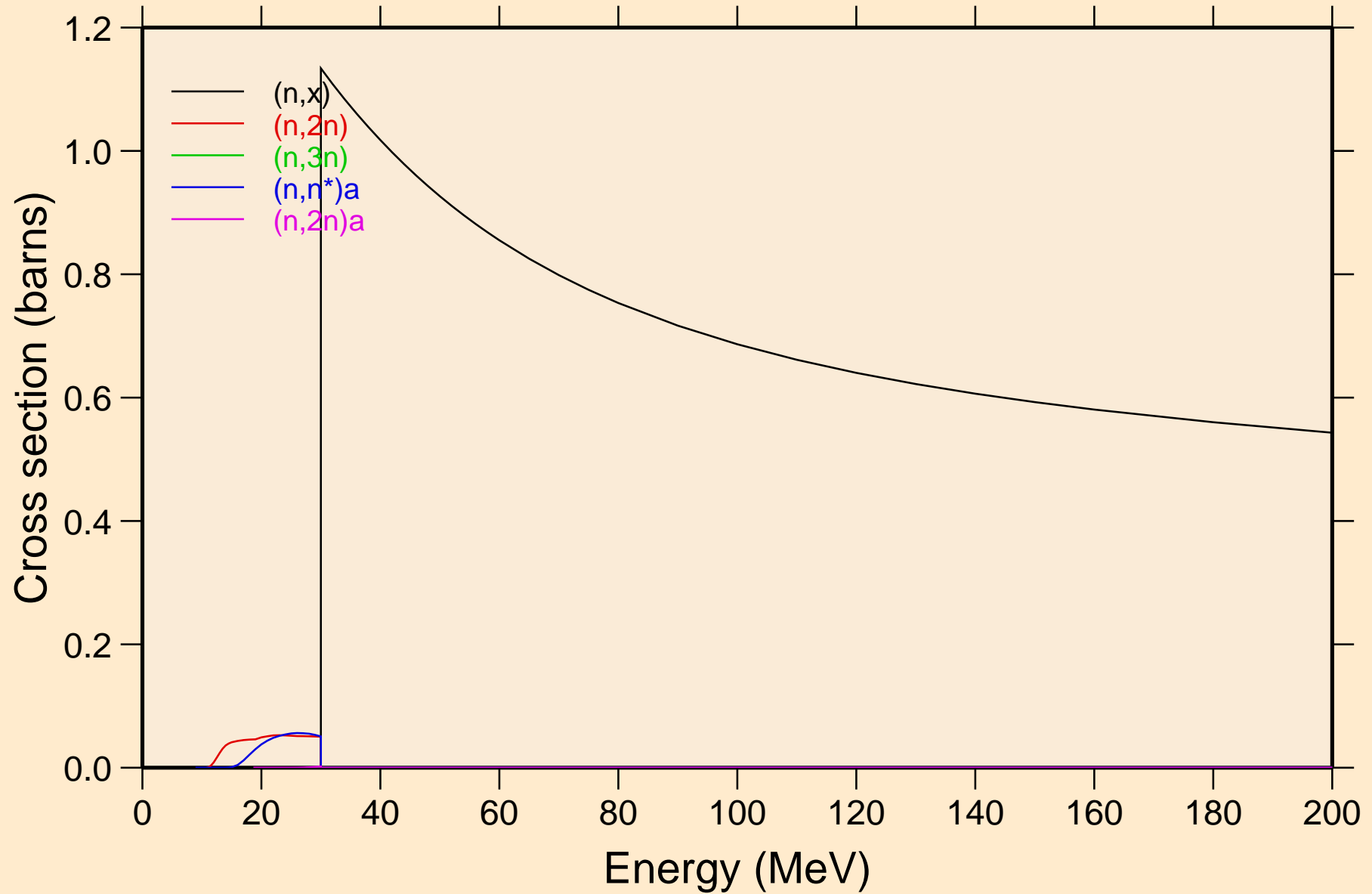




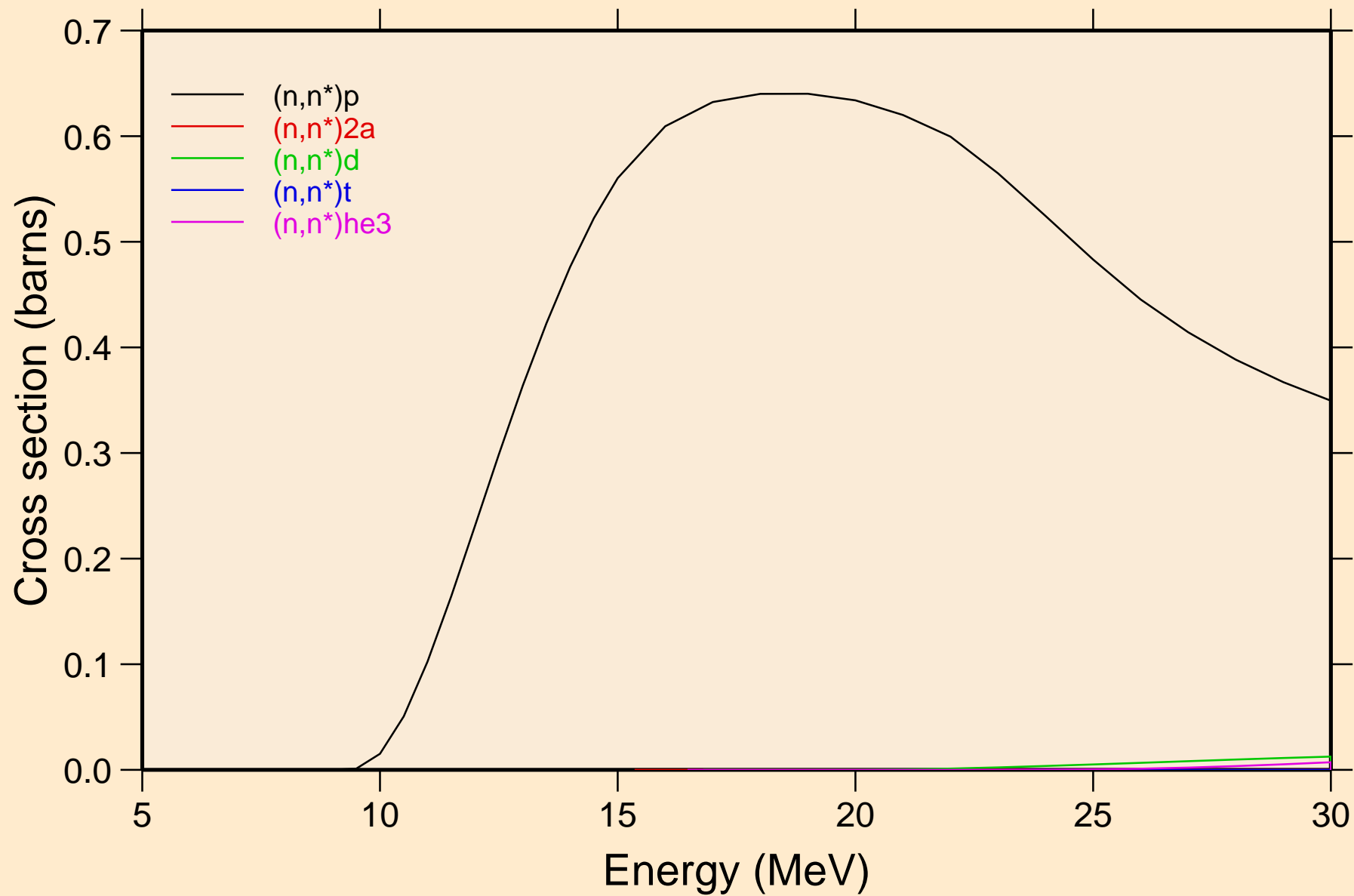
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

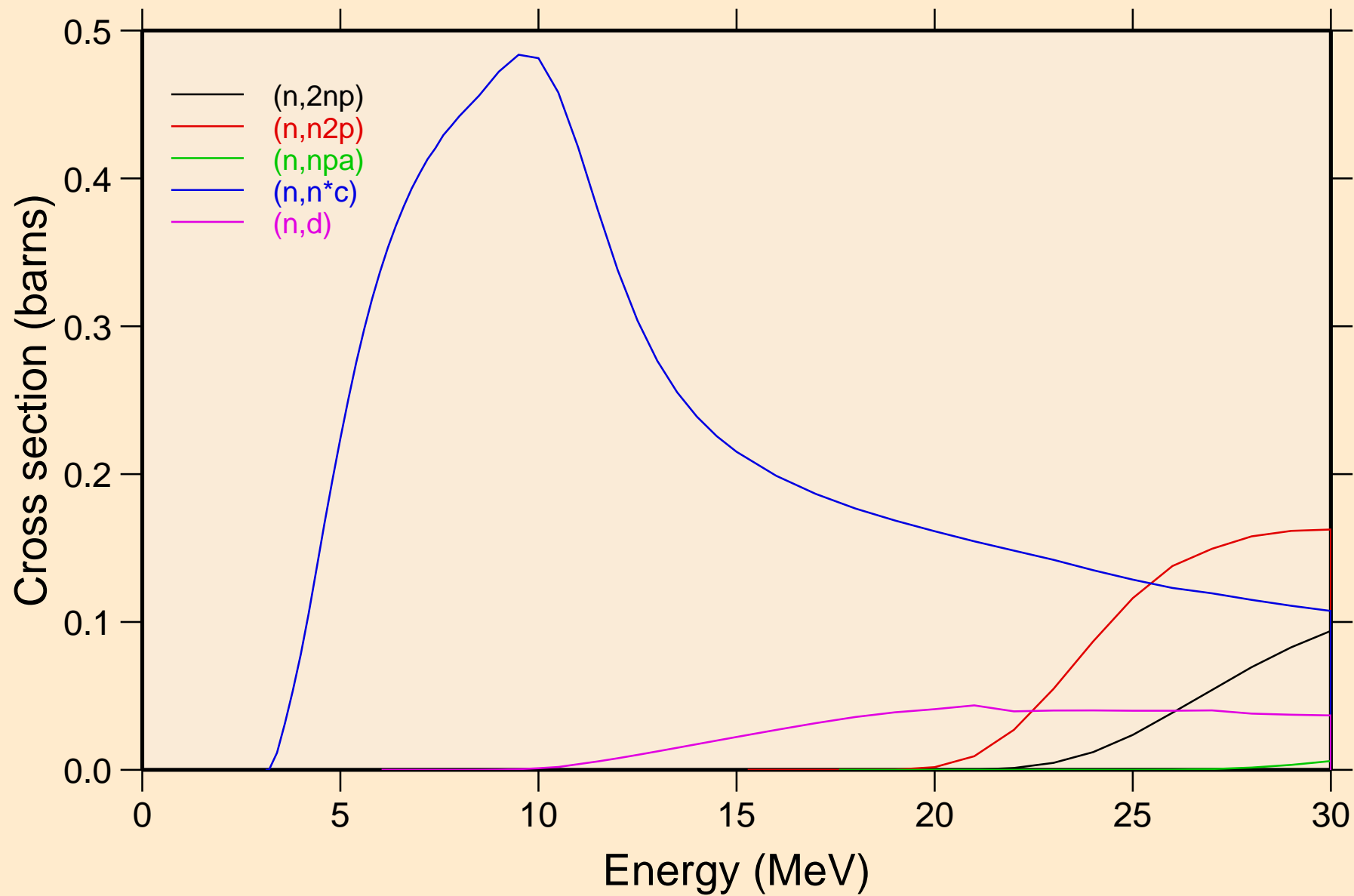


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



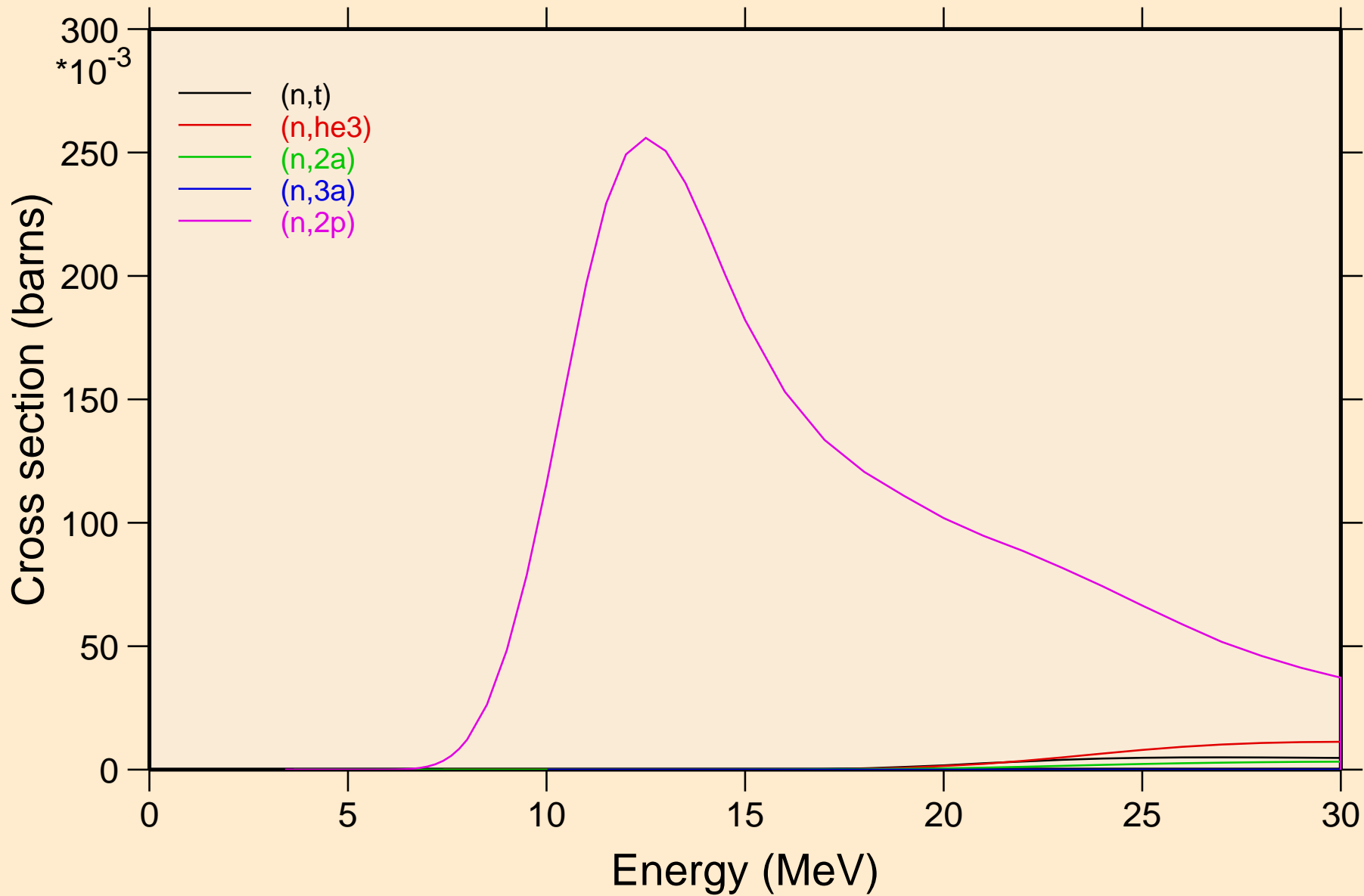
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## Threshold reactions



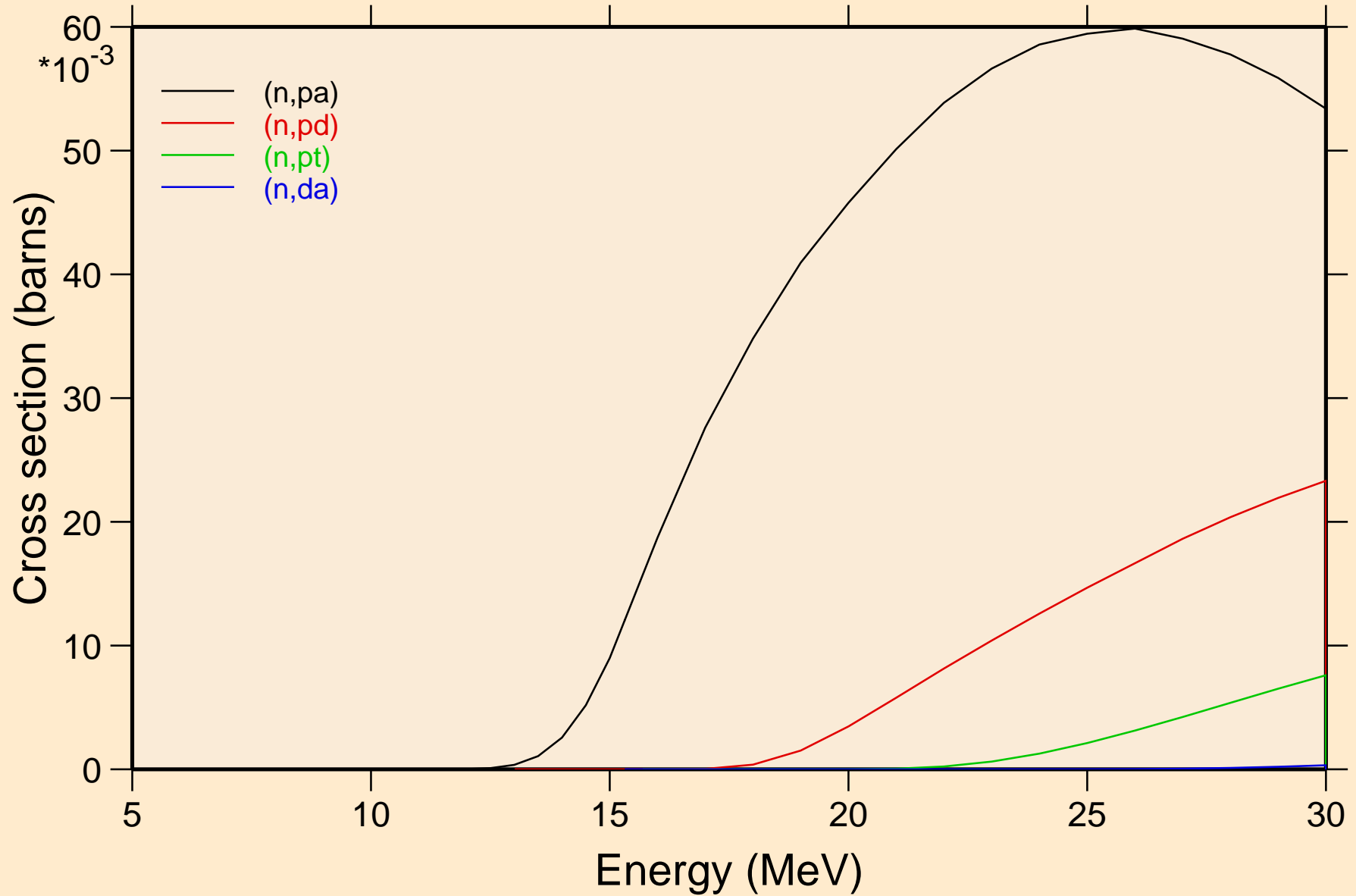
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## Threshold reactions



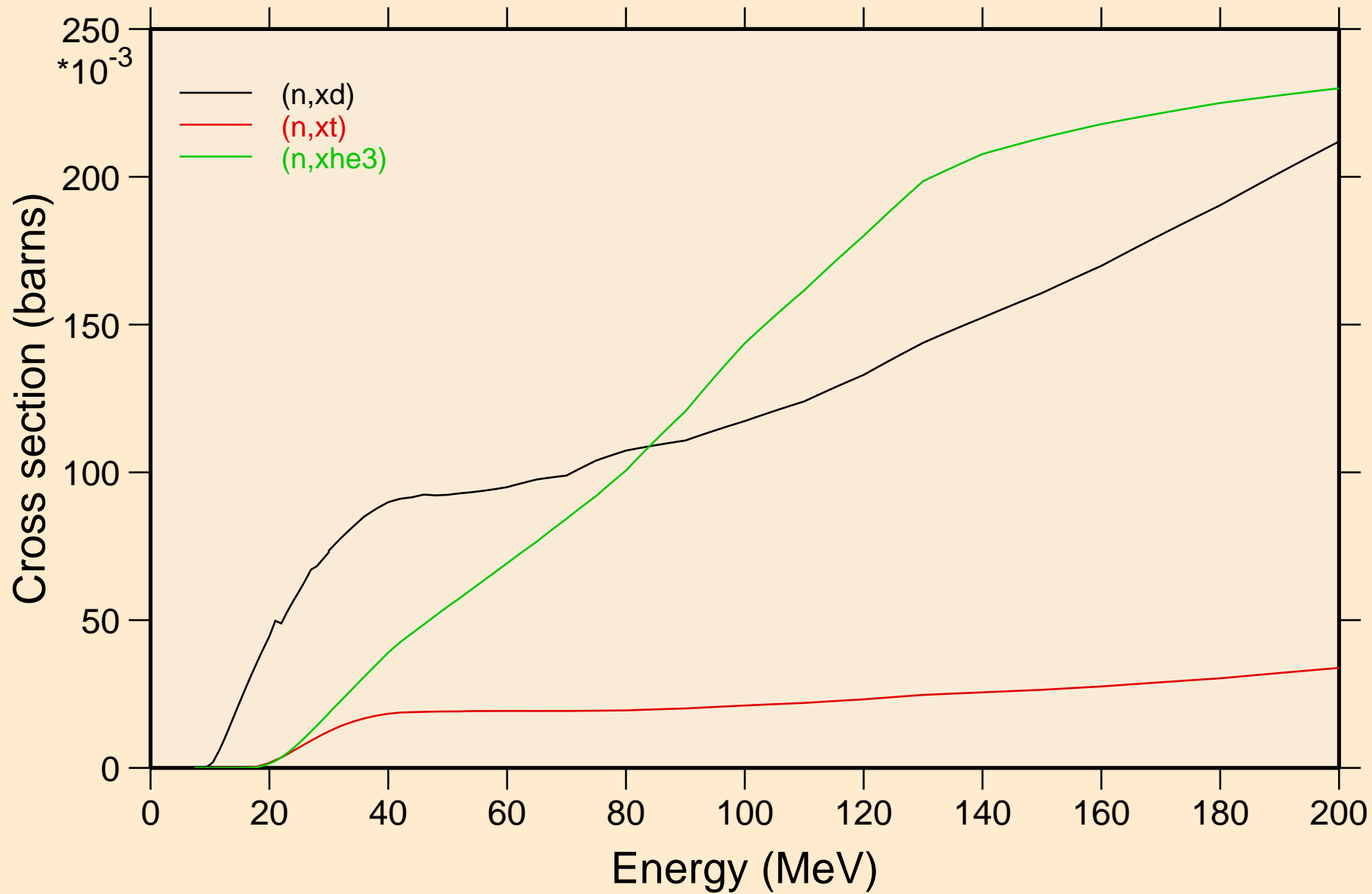
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## Threshold reactions

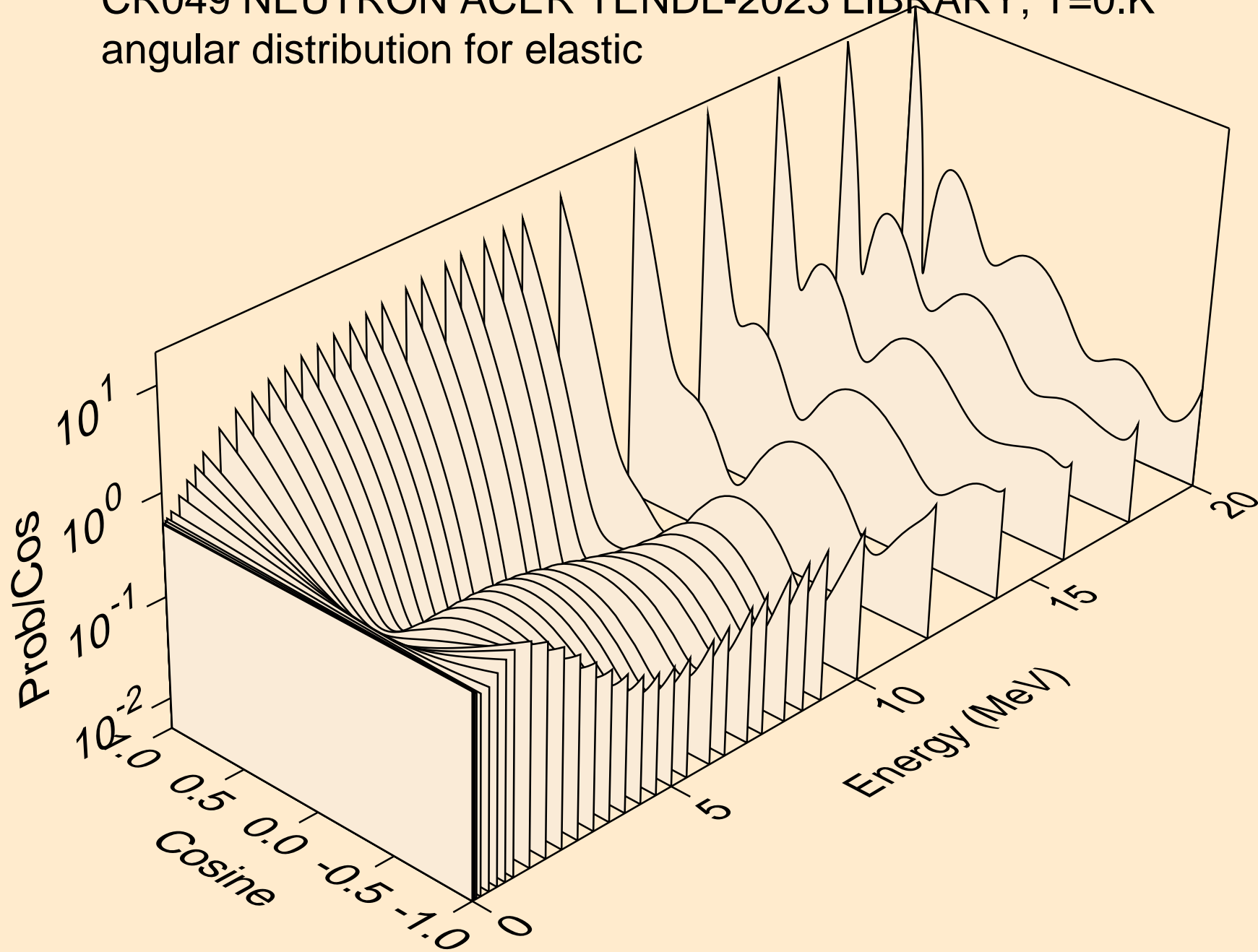


# CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

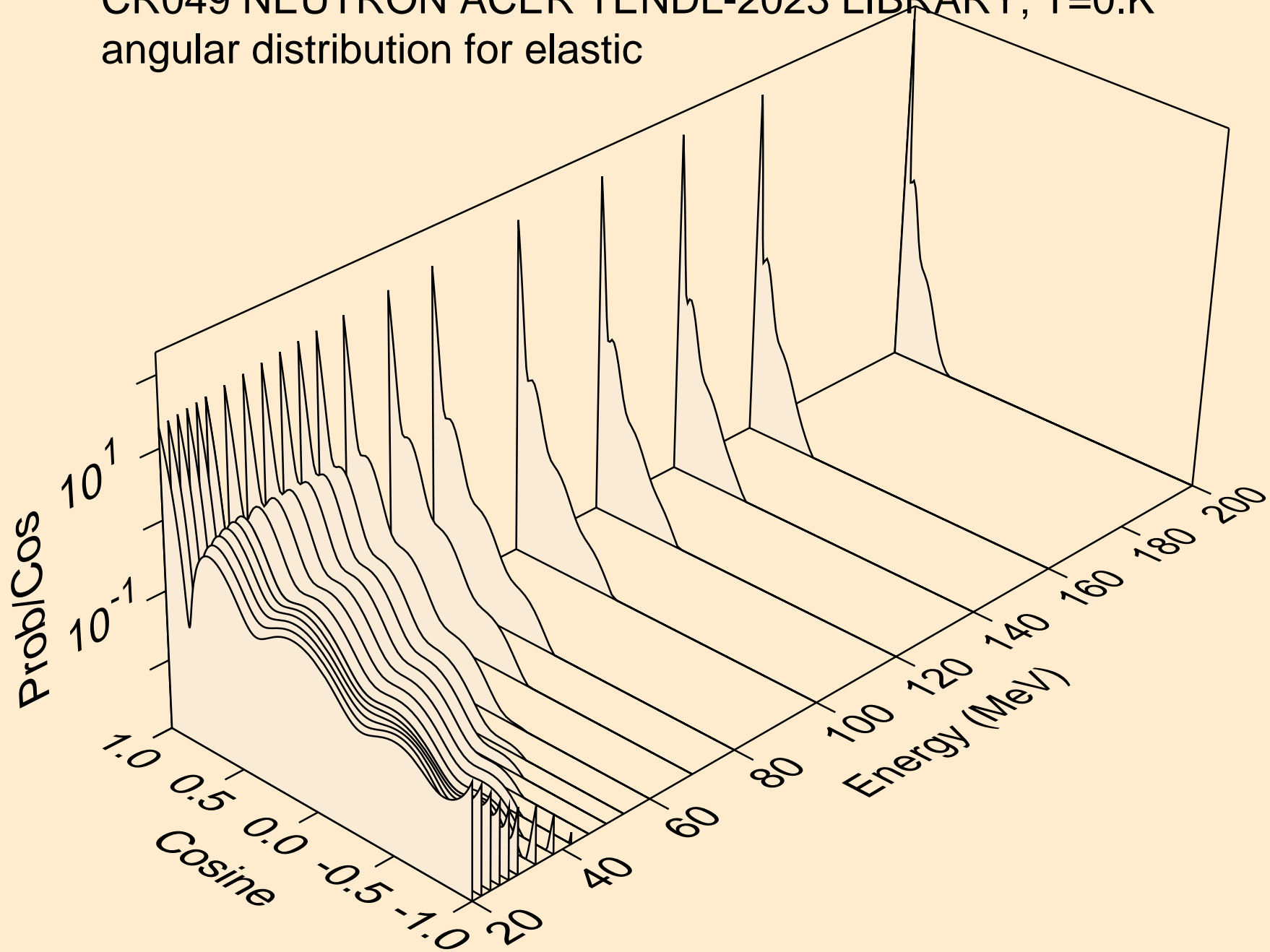


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

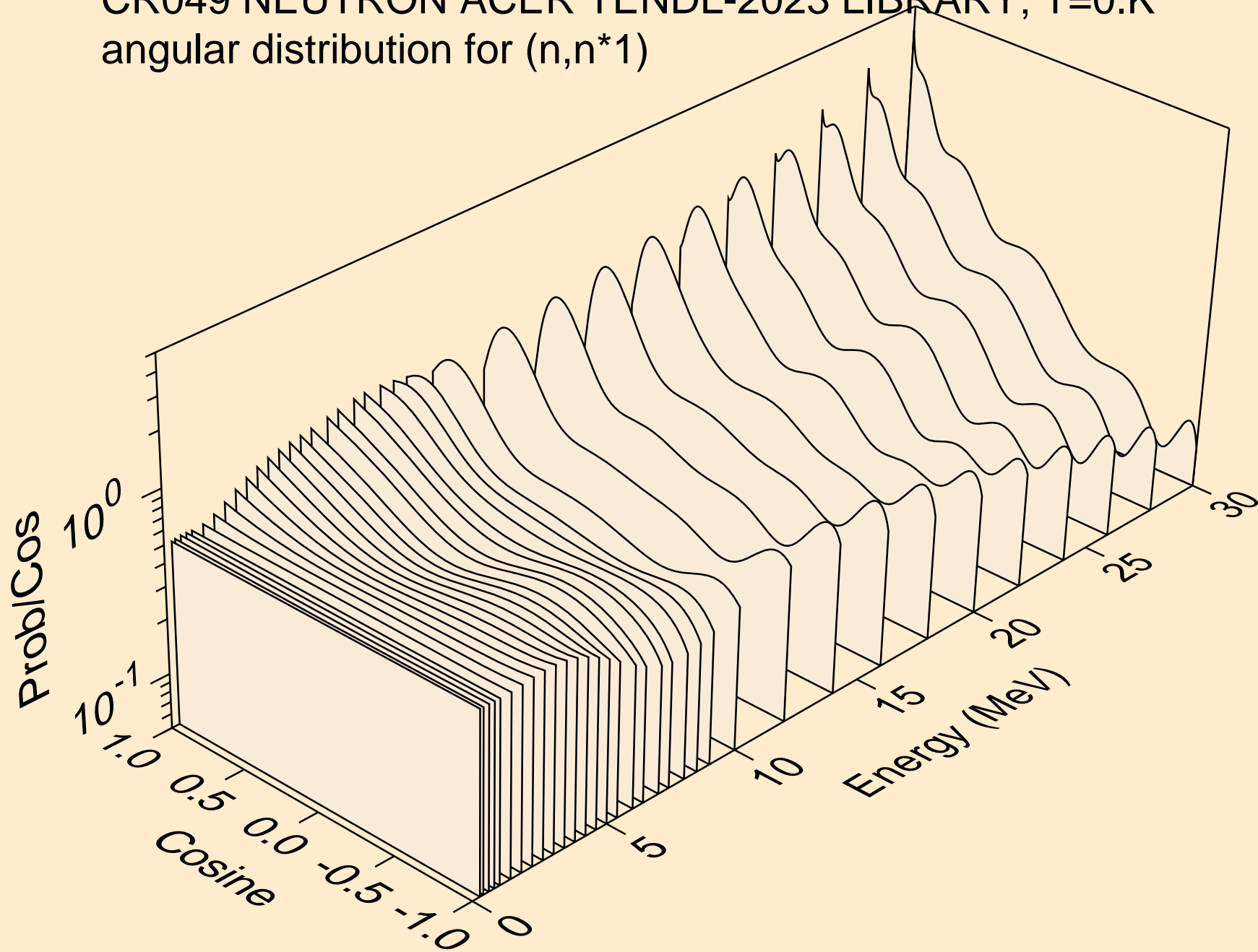




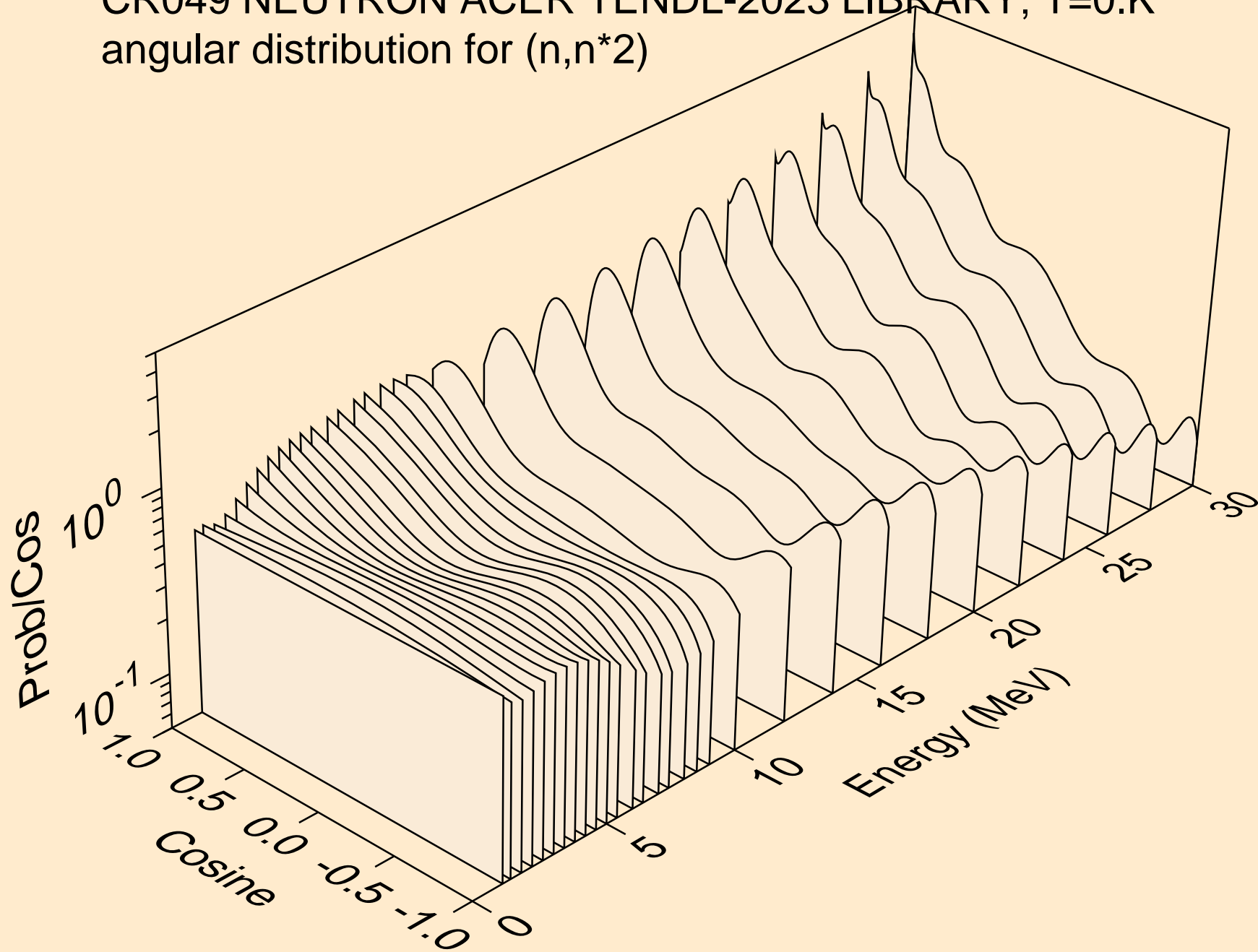
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angular distribution for elastic



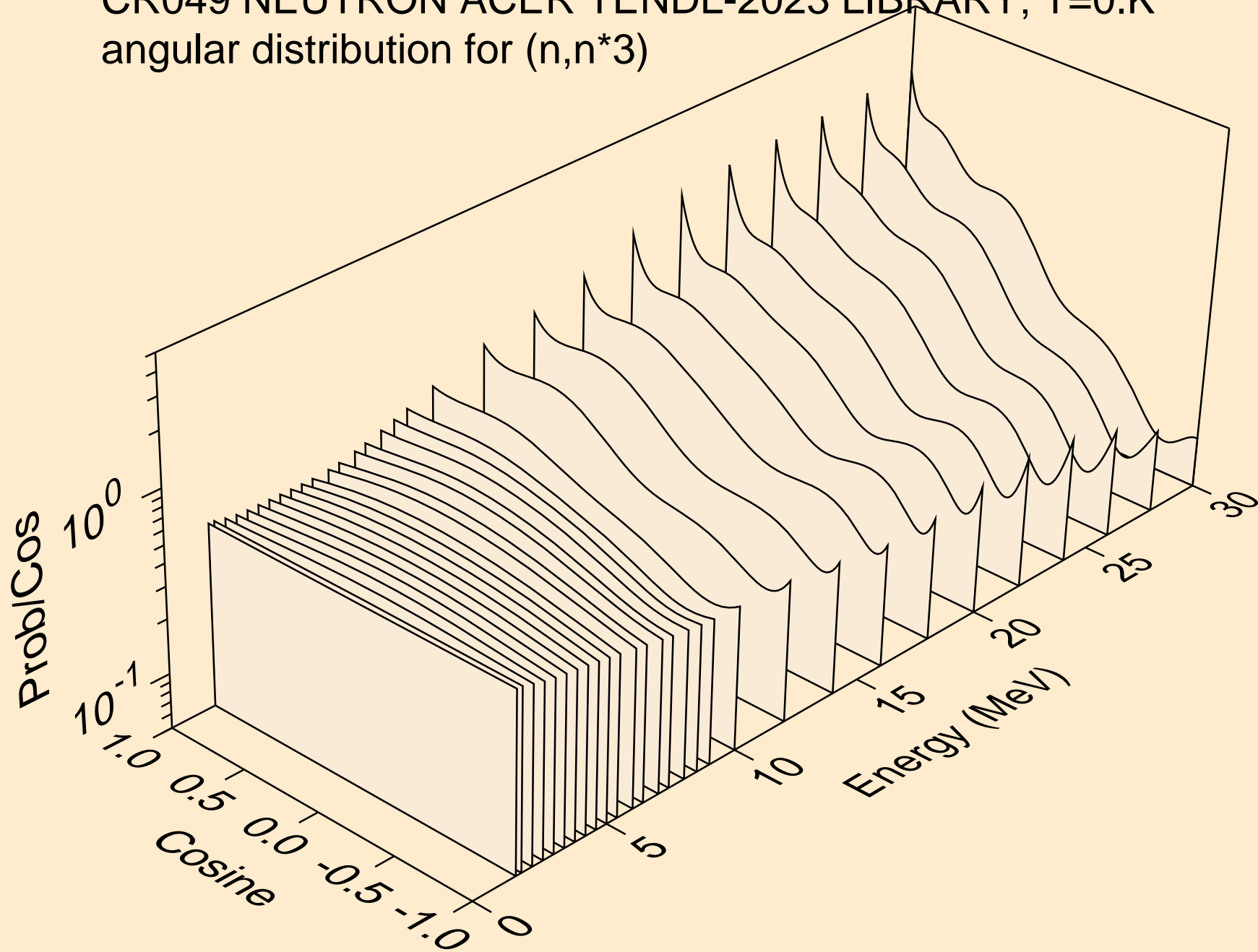
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angular distribution for (n,n\*1)



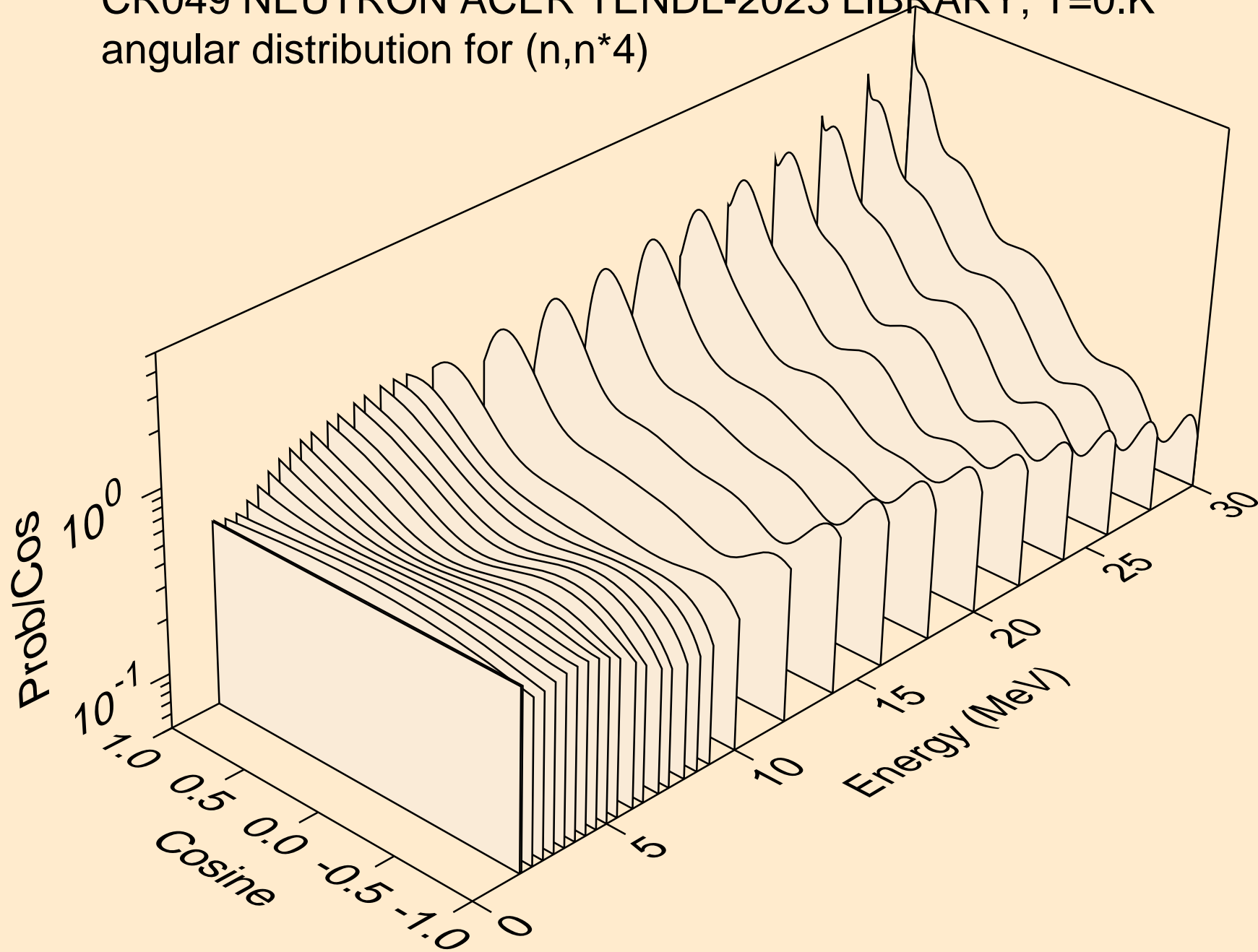
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angular distribution for (n,n\*2)



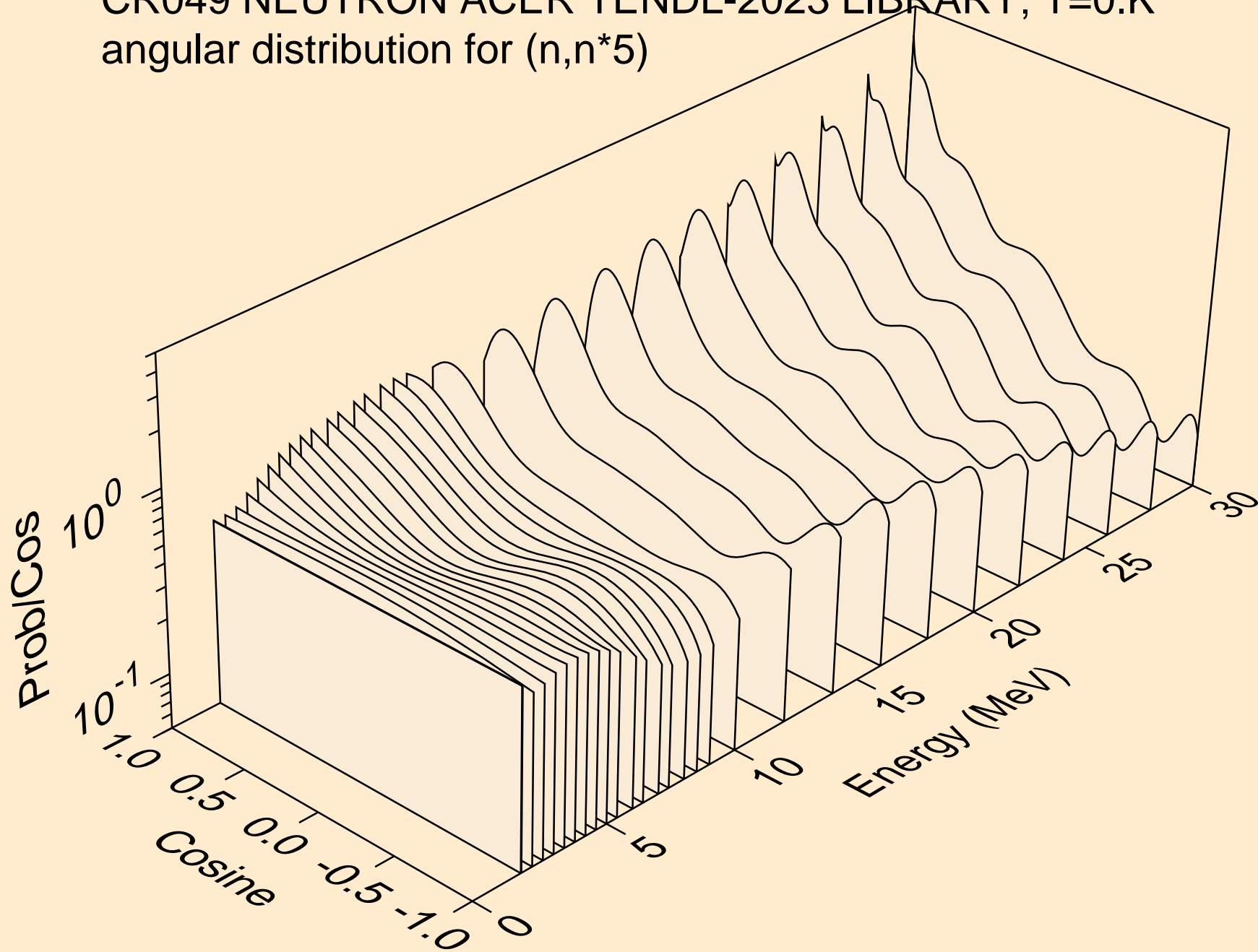
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angular distribution for (n,n\*3)



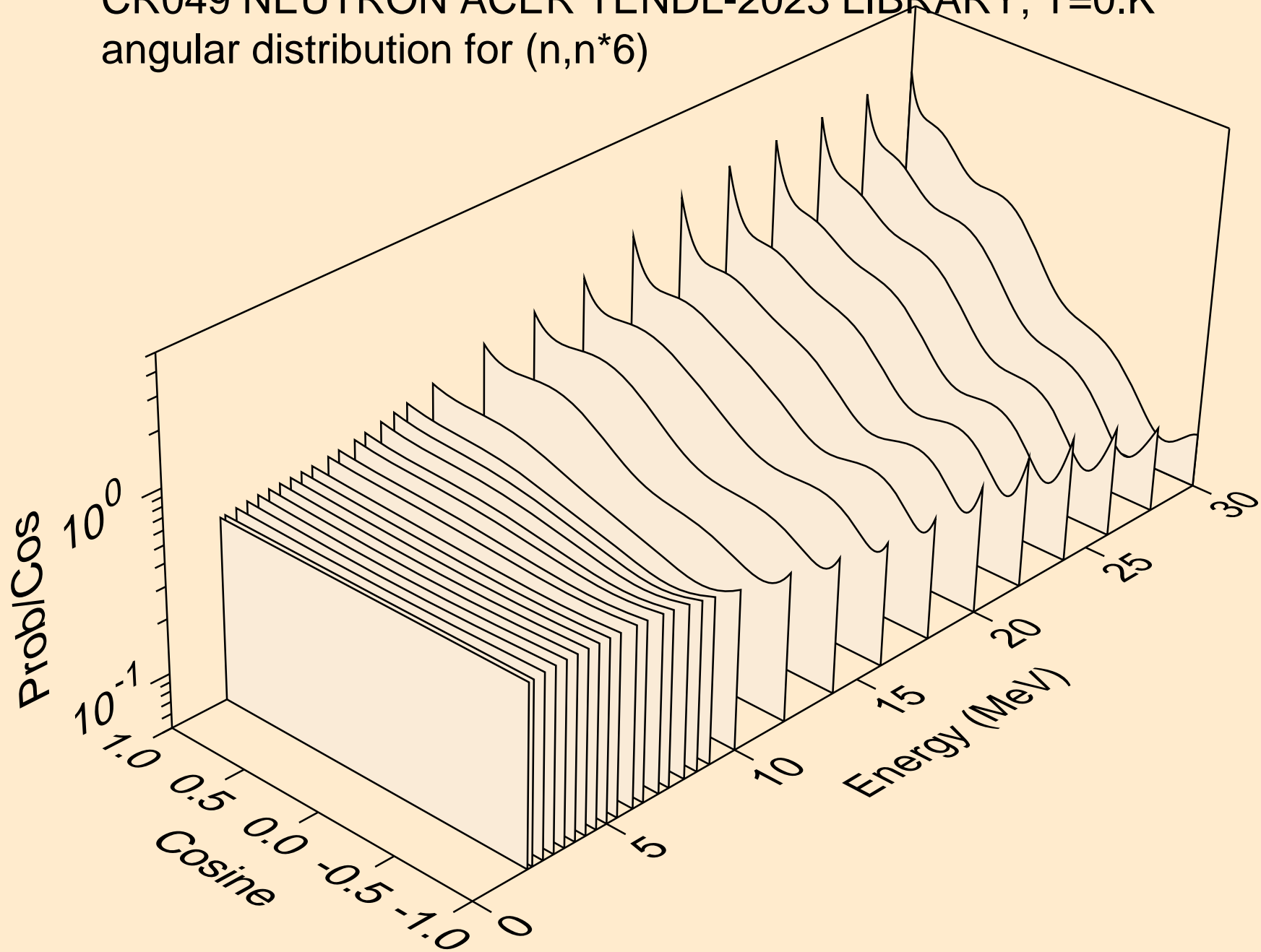
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angular distribution for (n,n\*4)



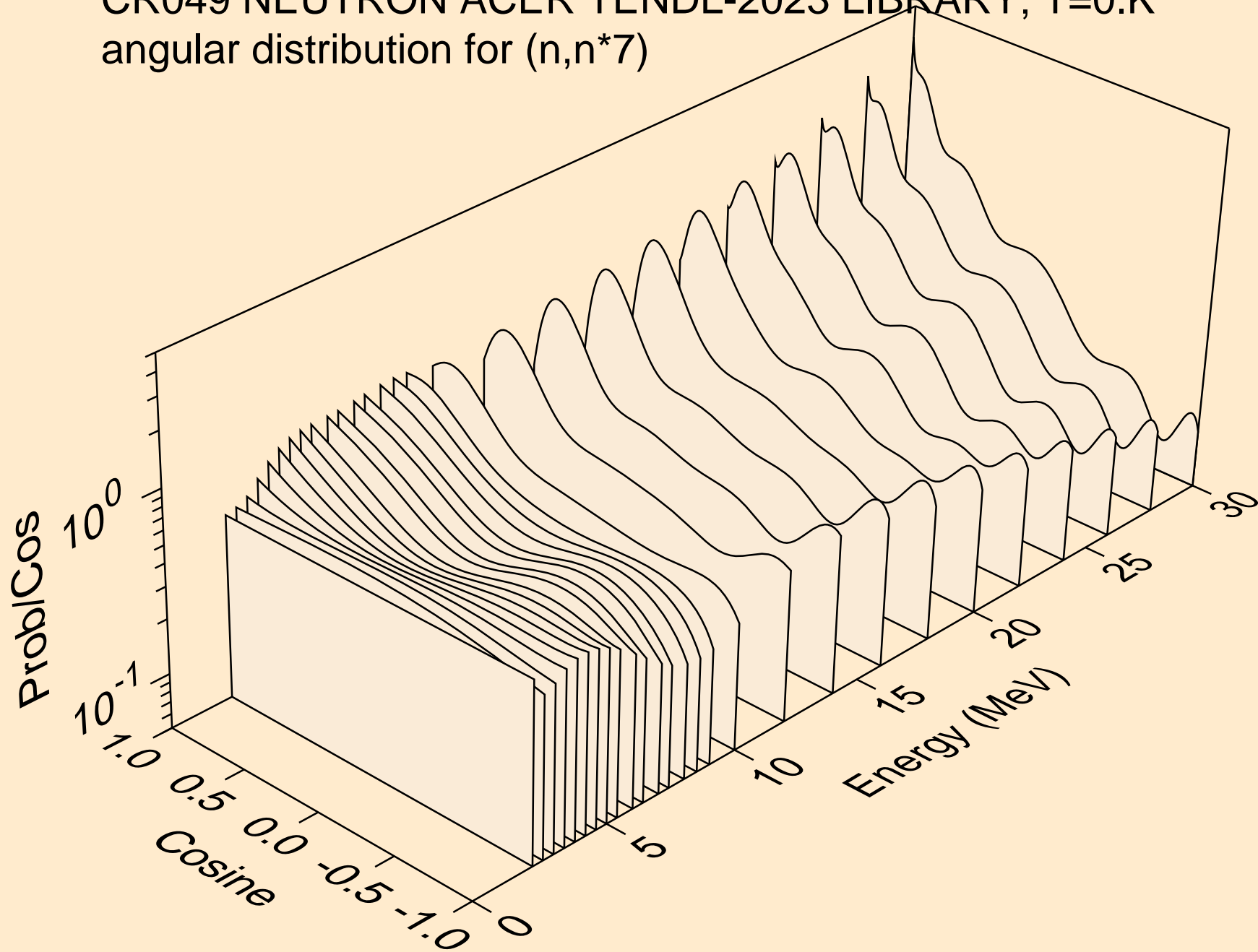
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)

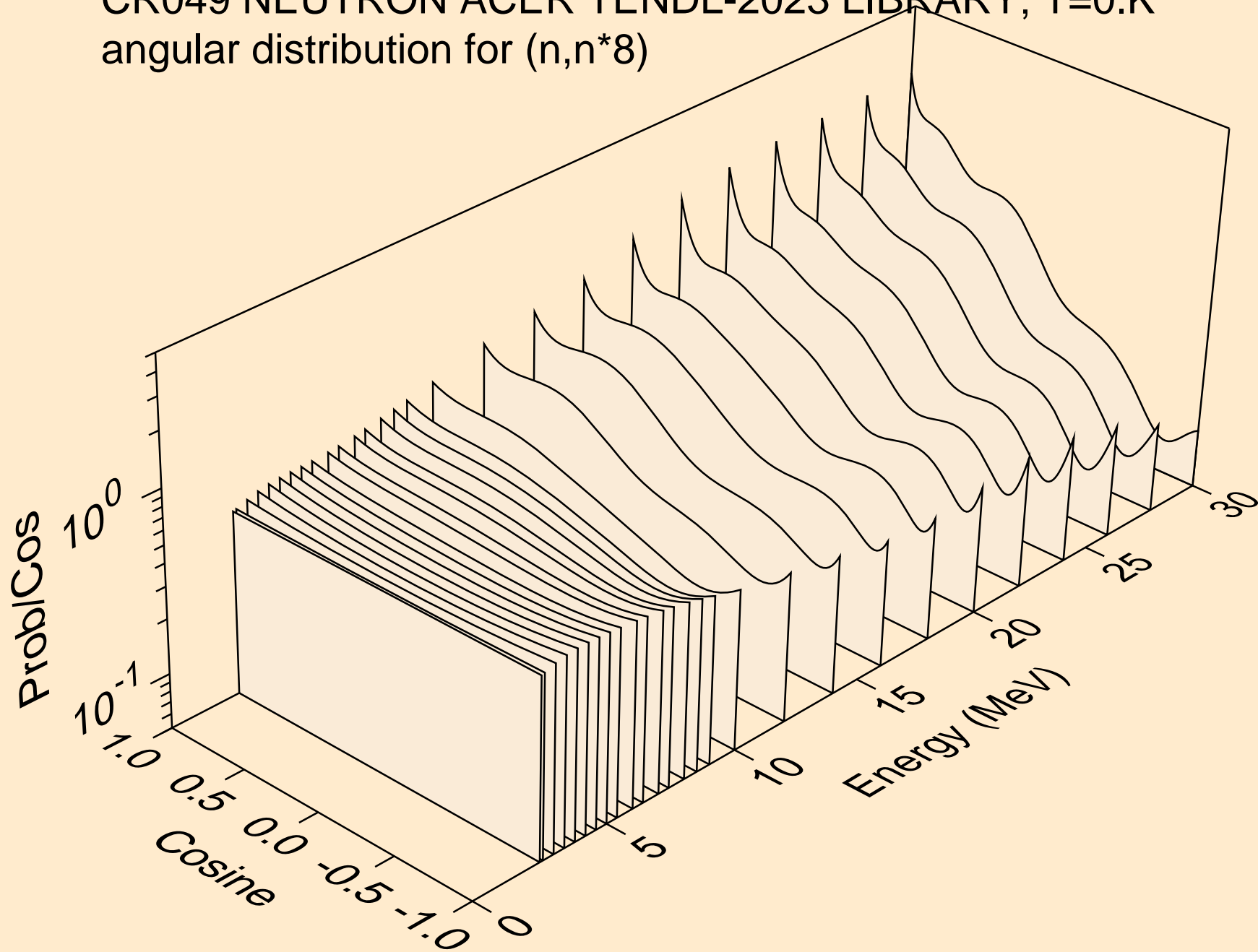


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angular distribution for (n,n\*7)

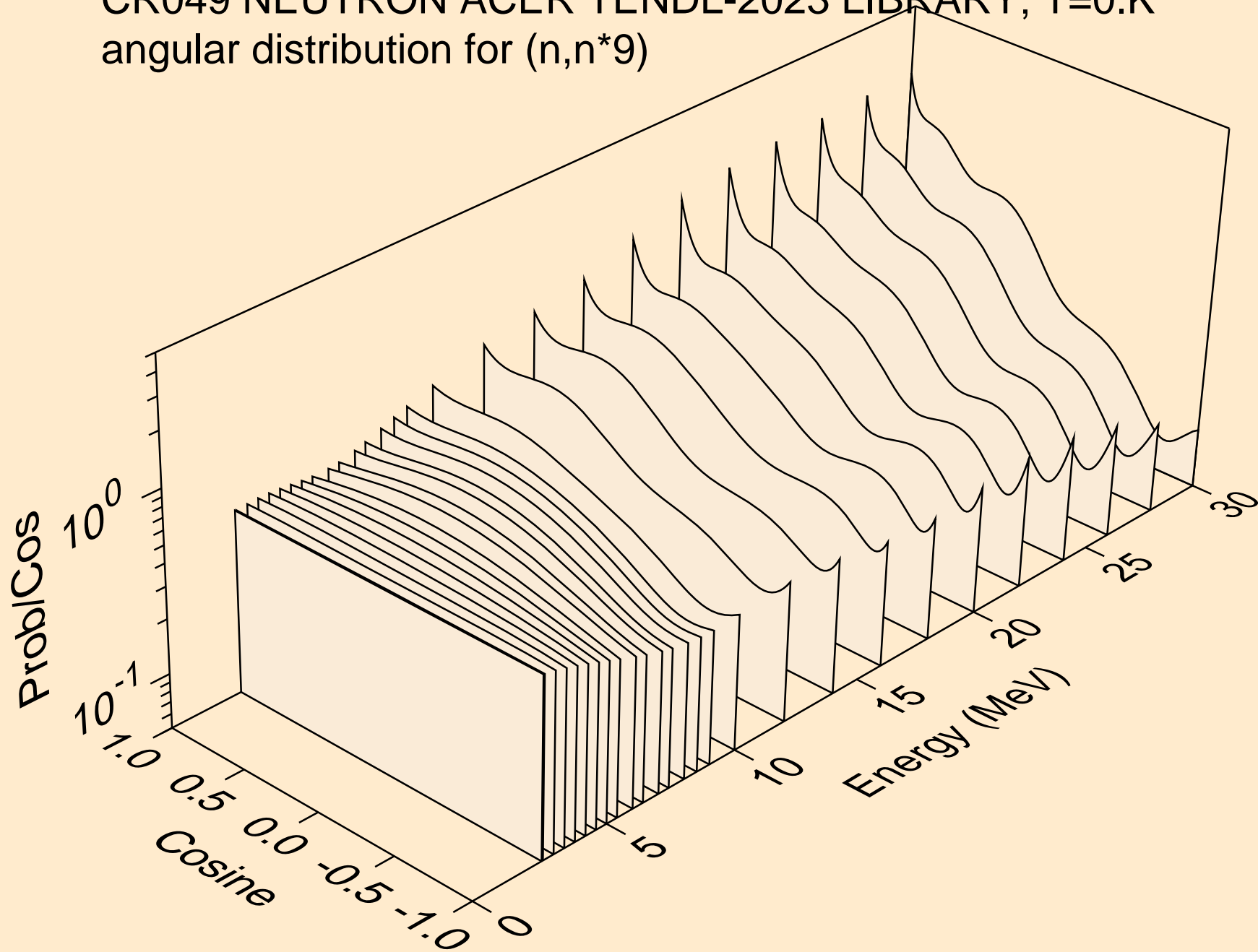




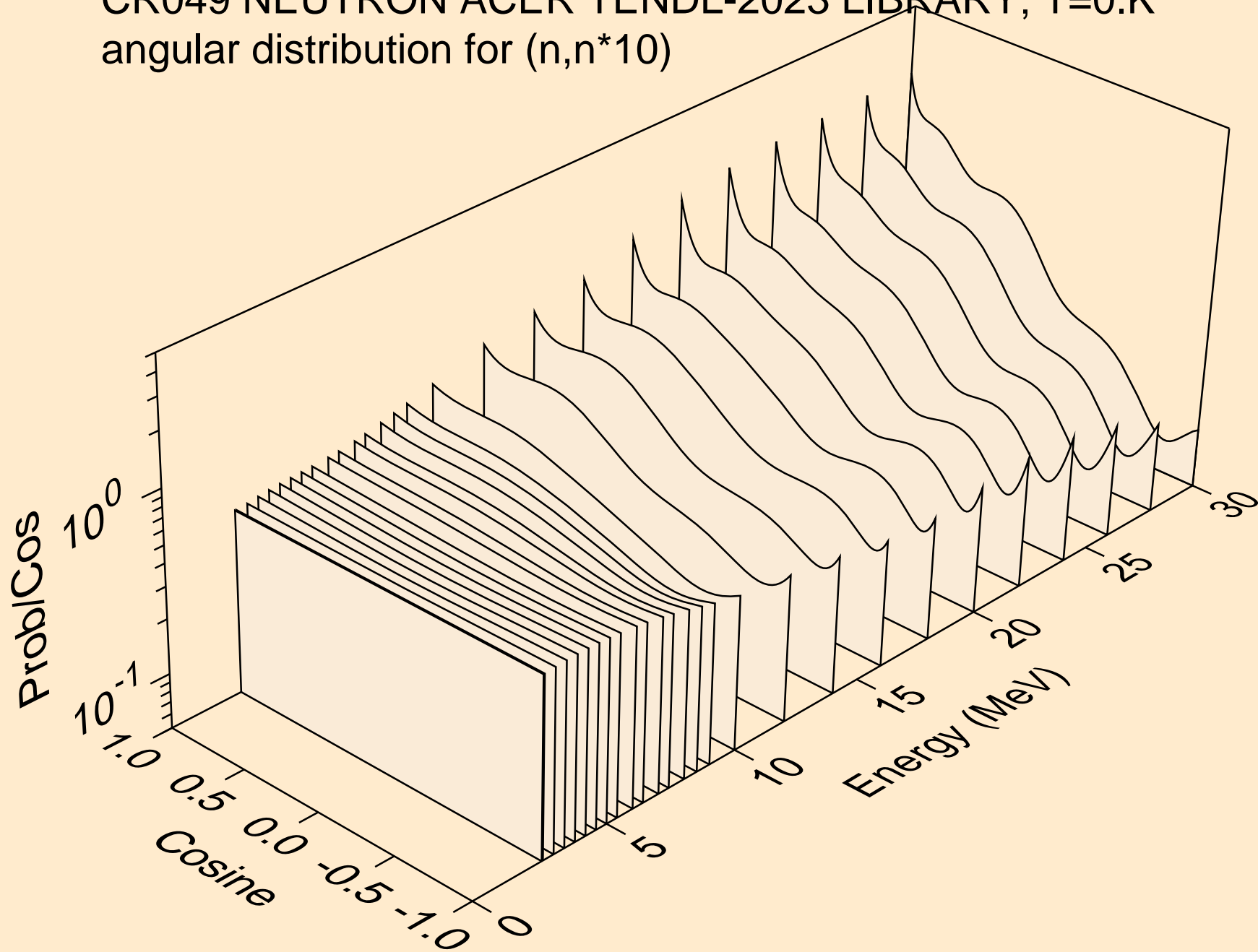
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angular distribution for (n,n\*8)



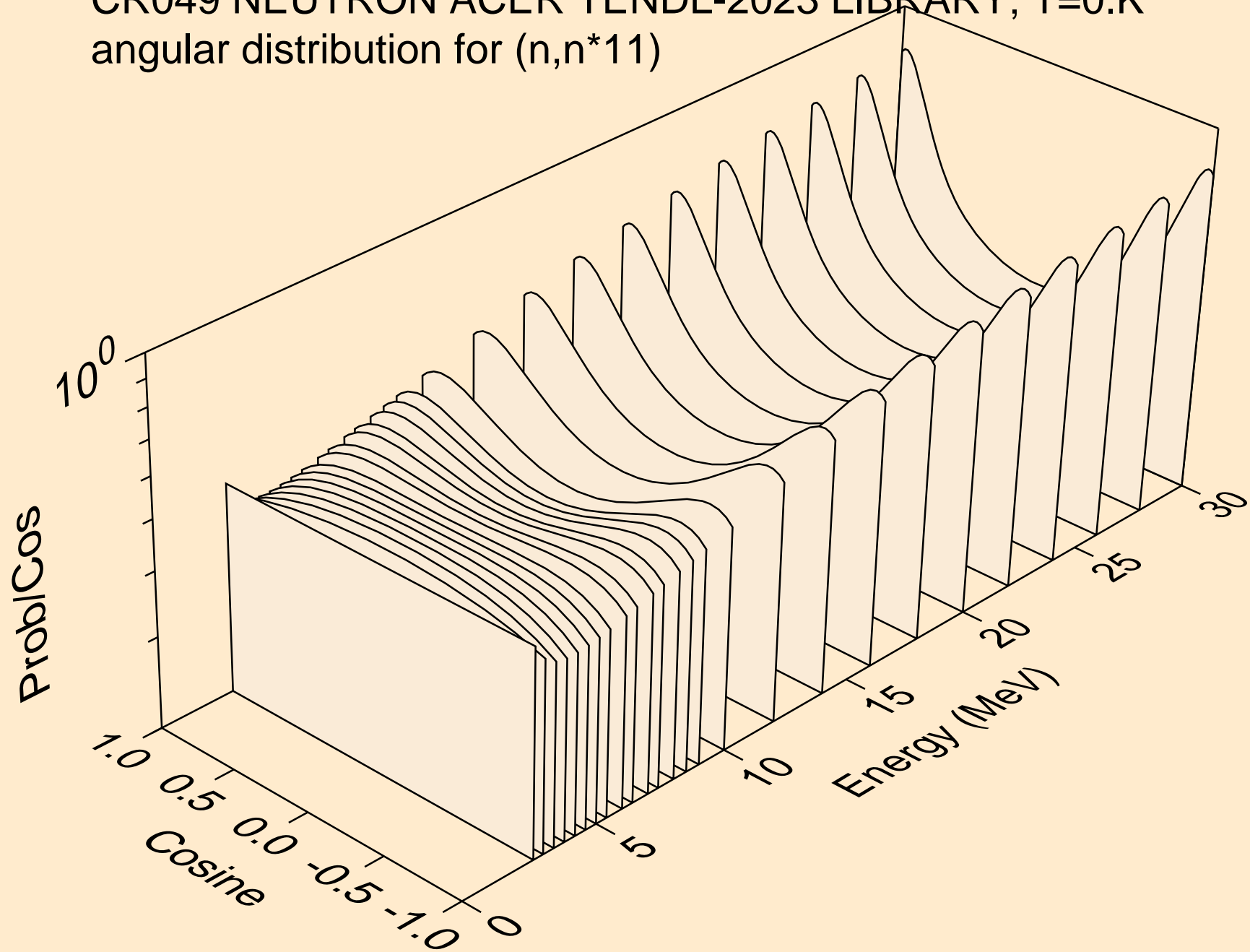
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angular distribution for (n,n\*9)



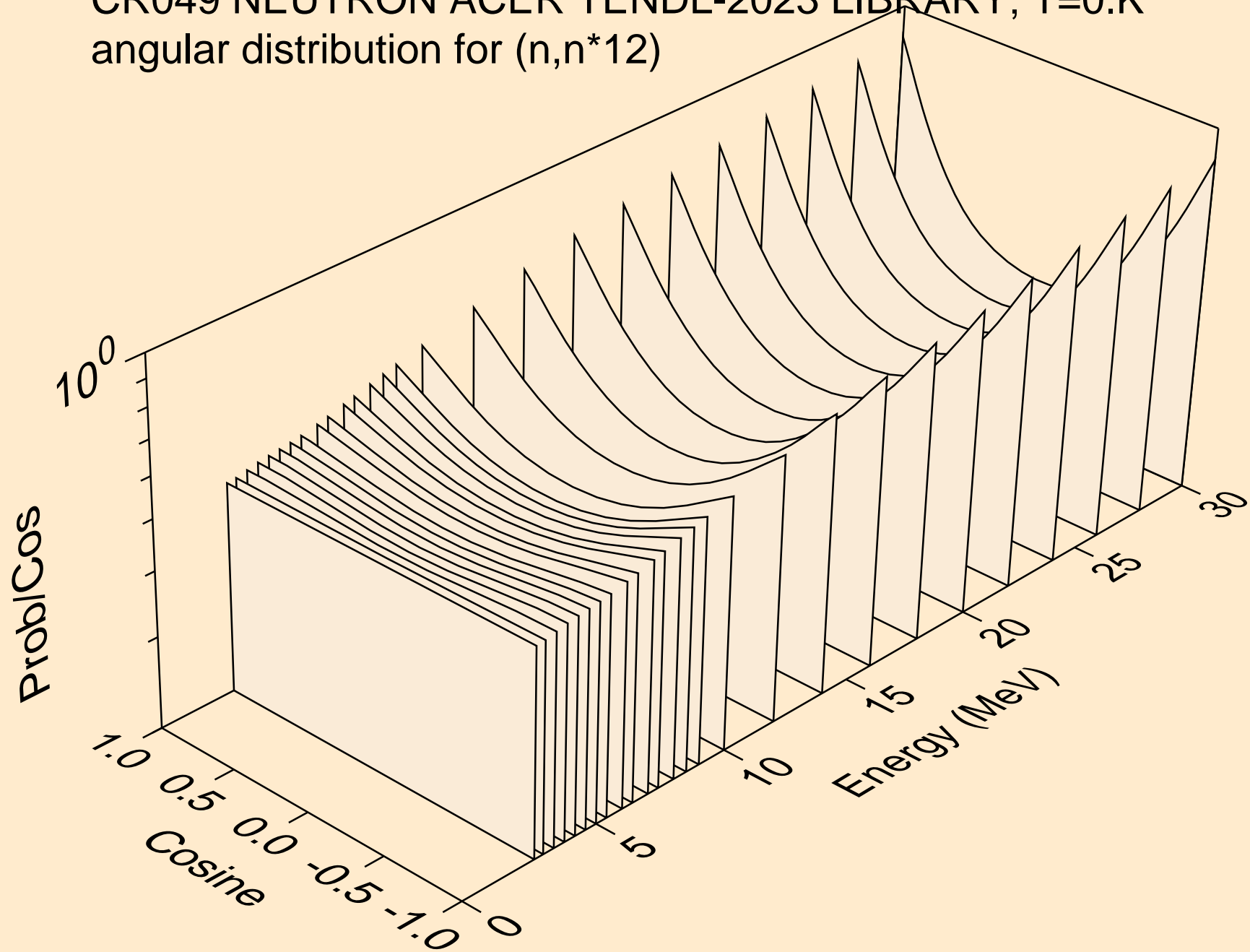
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angular distribution for (n,n\*10)



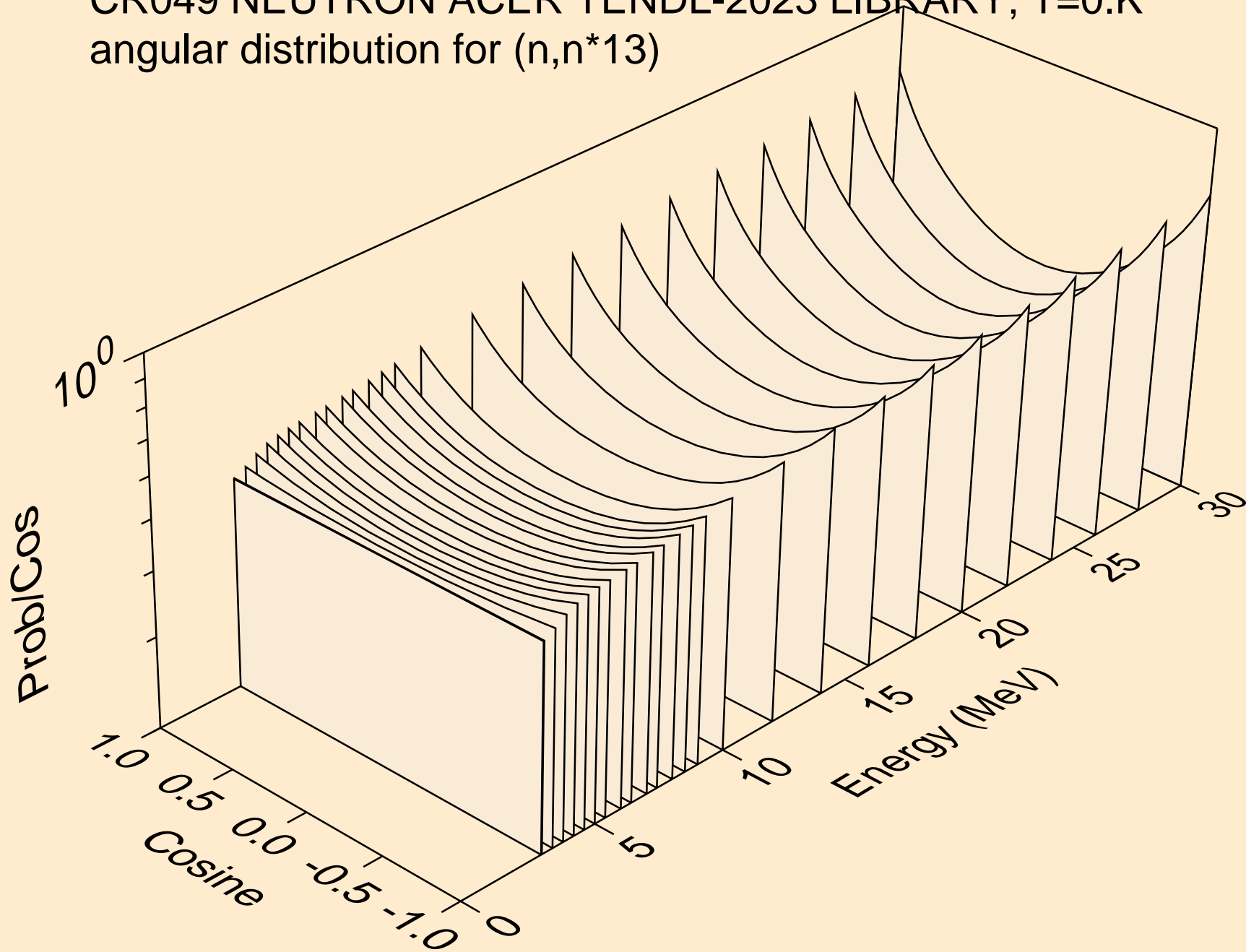
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angular distribution for (n,n\*11)



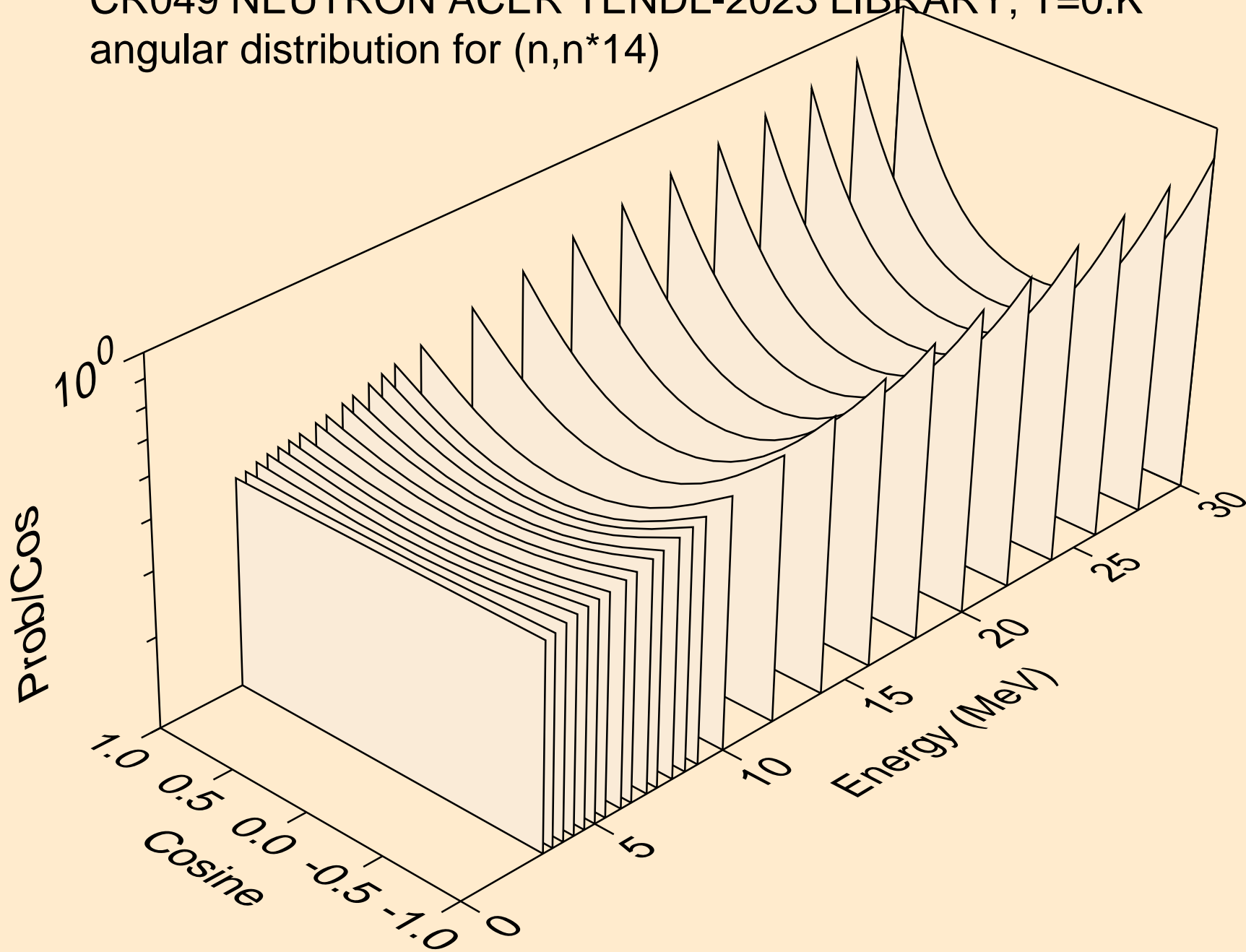
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angular distribution for (n,n\*12)



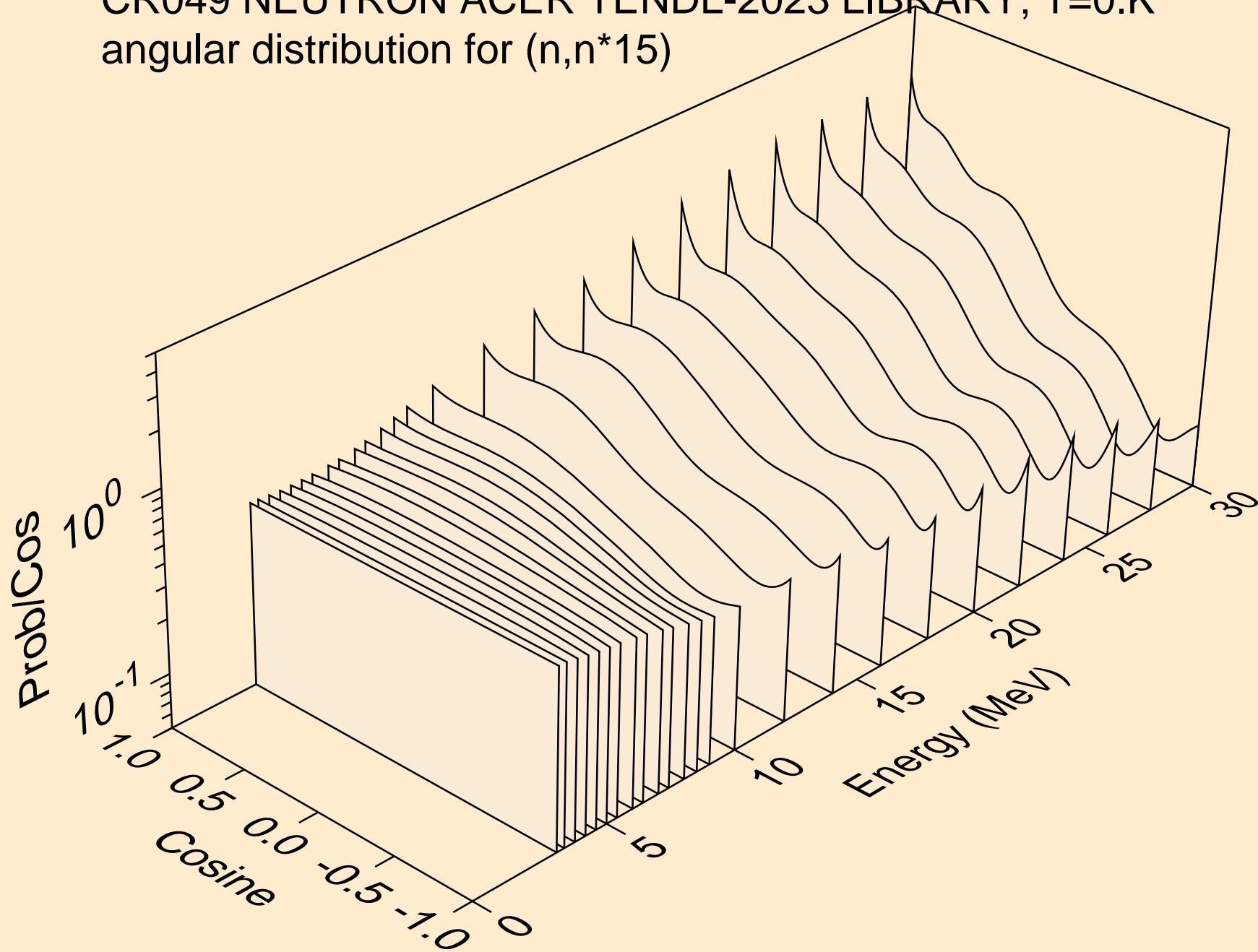
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*14)

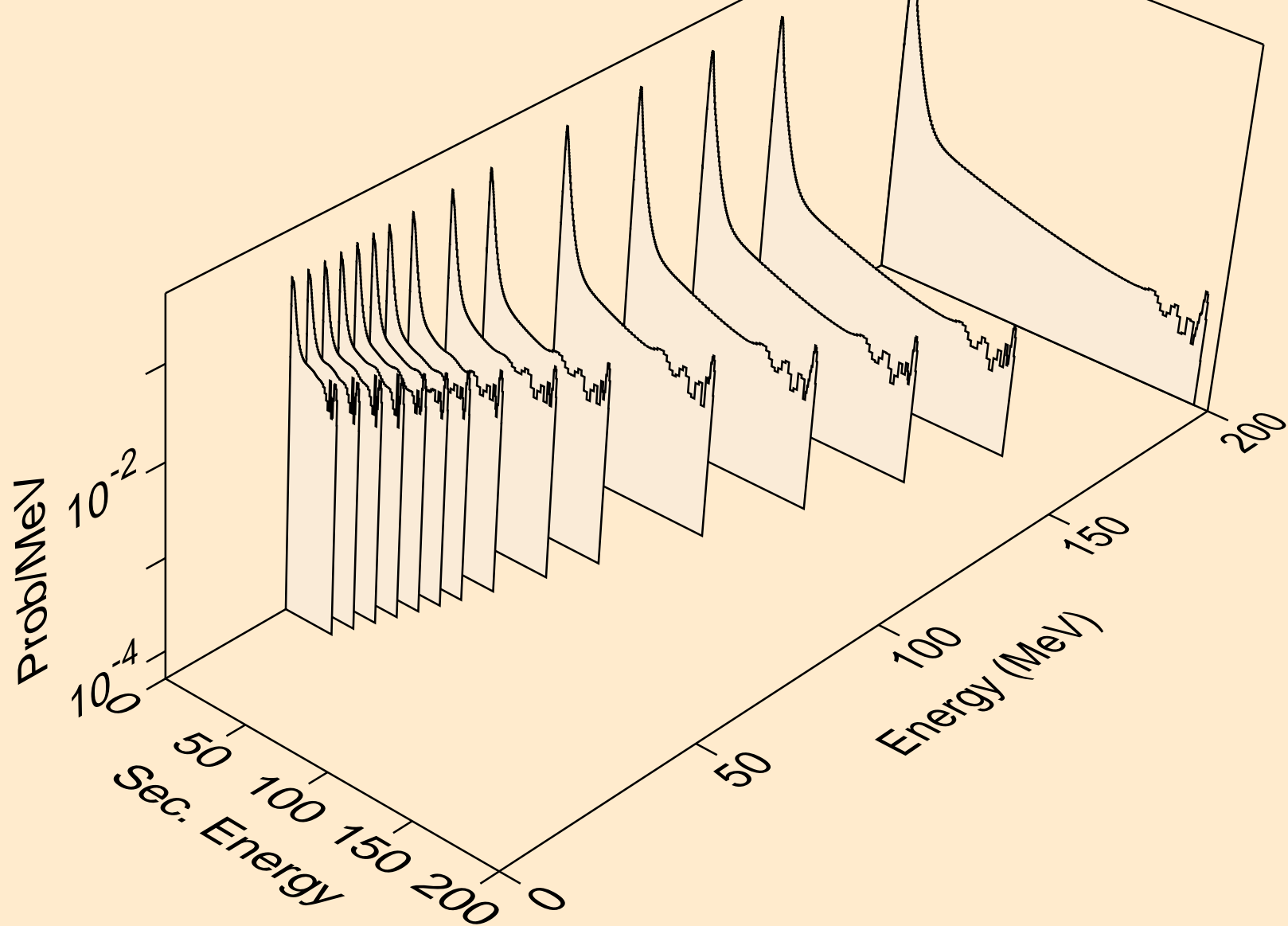


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*15)

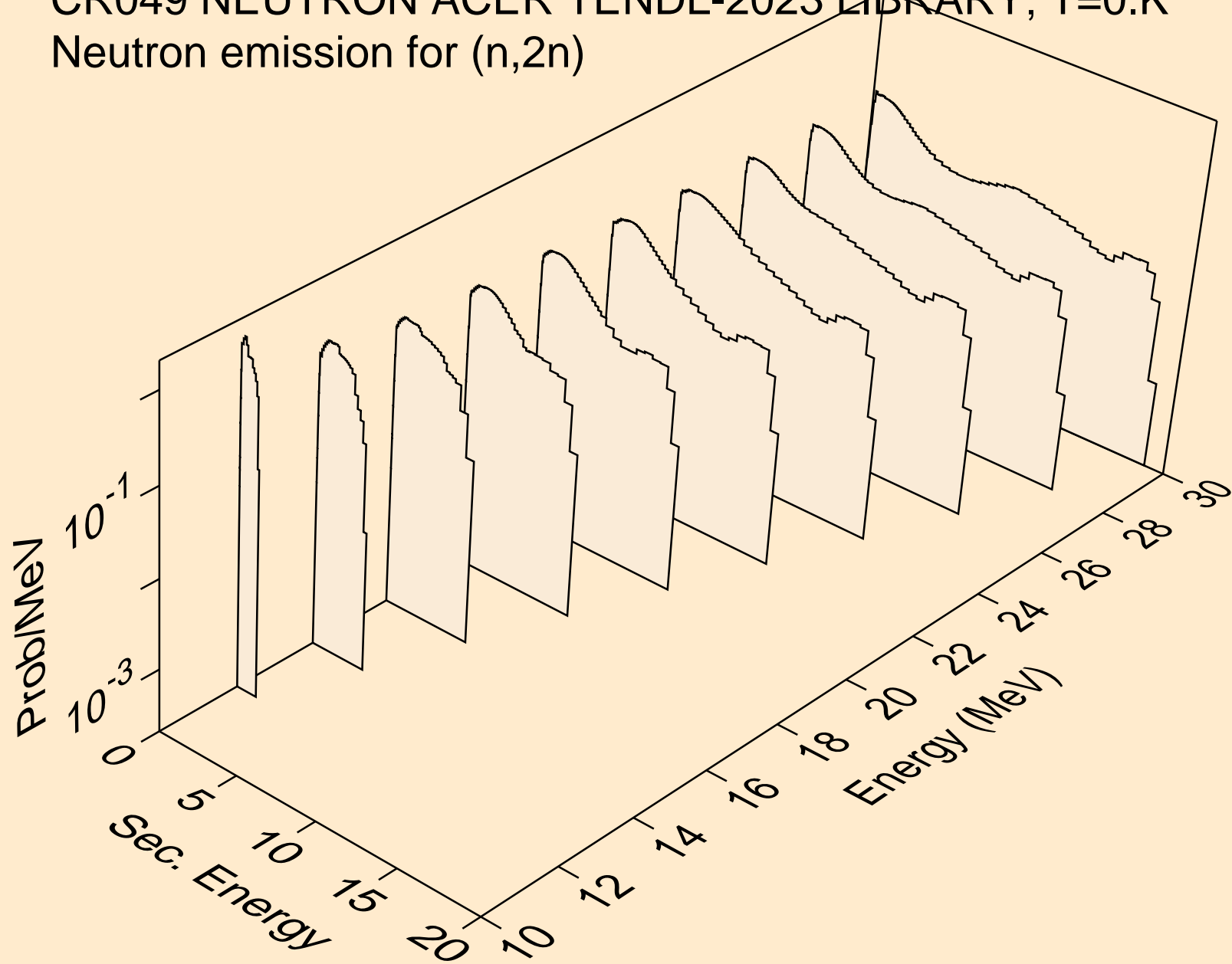




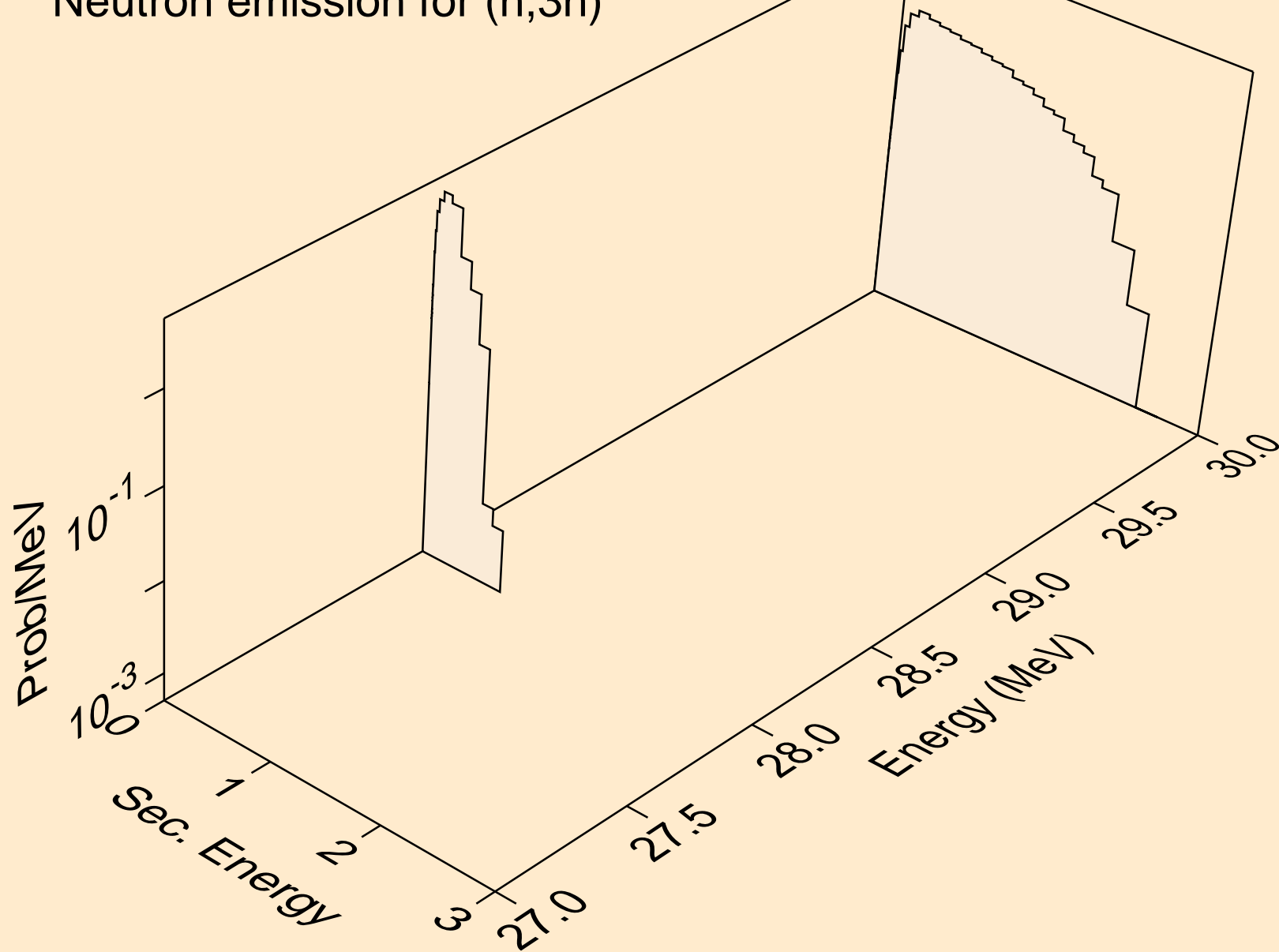
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



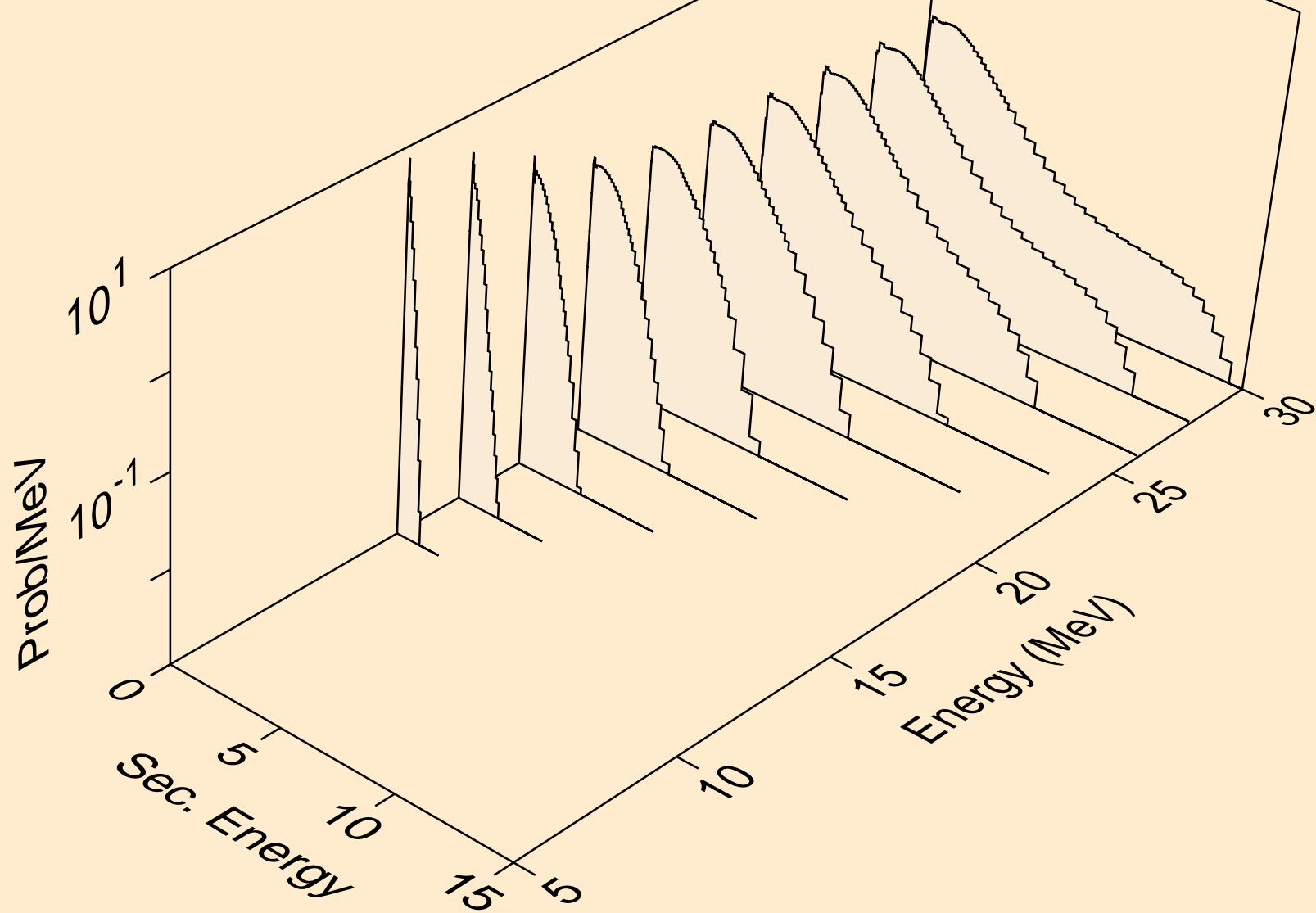
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



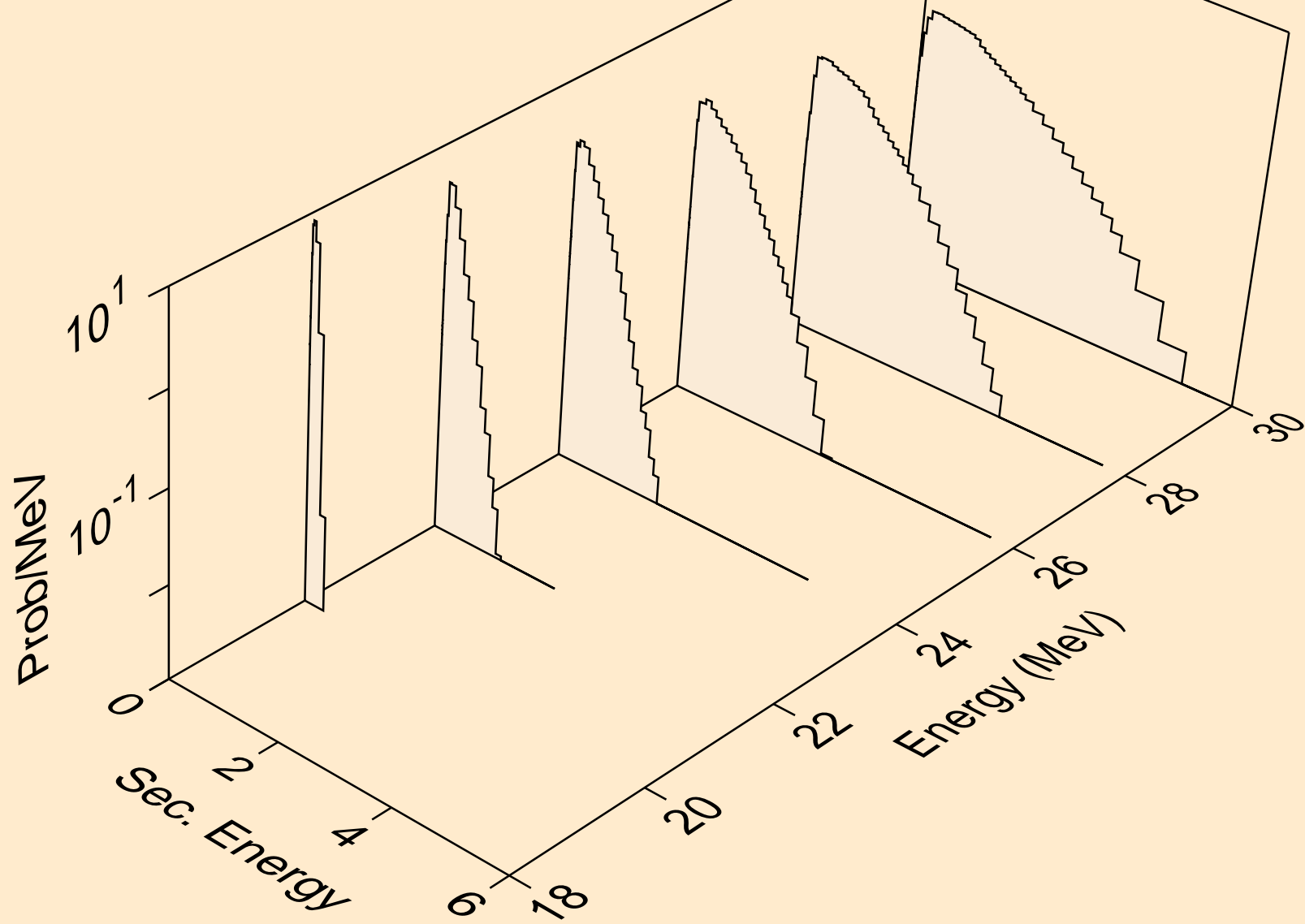
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



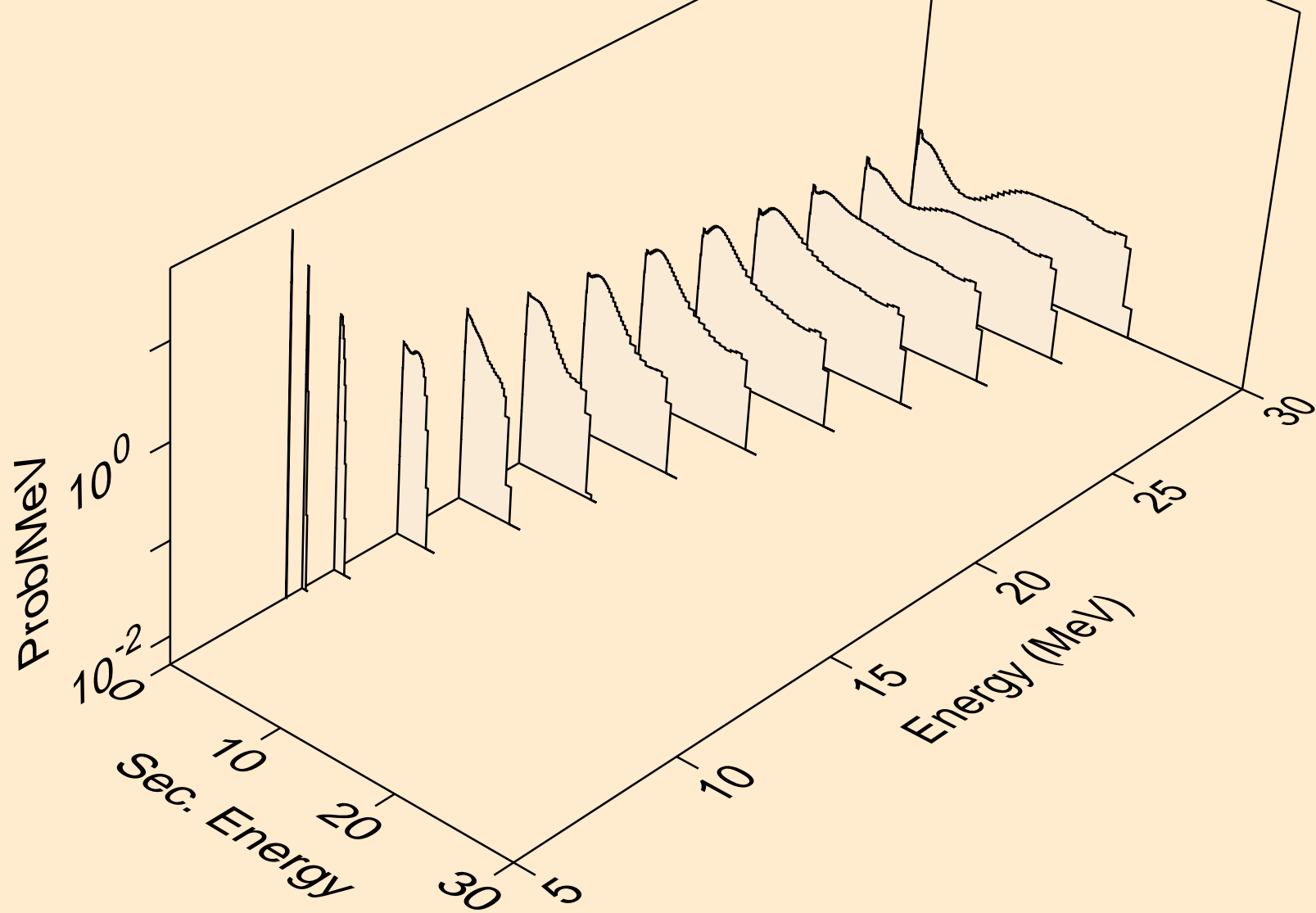
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



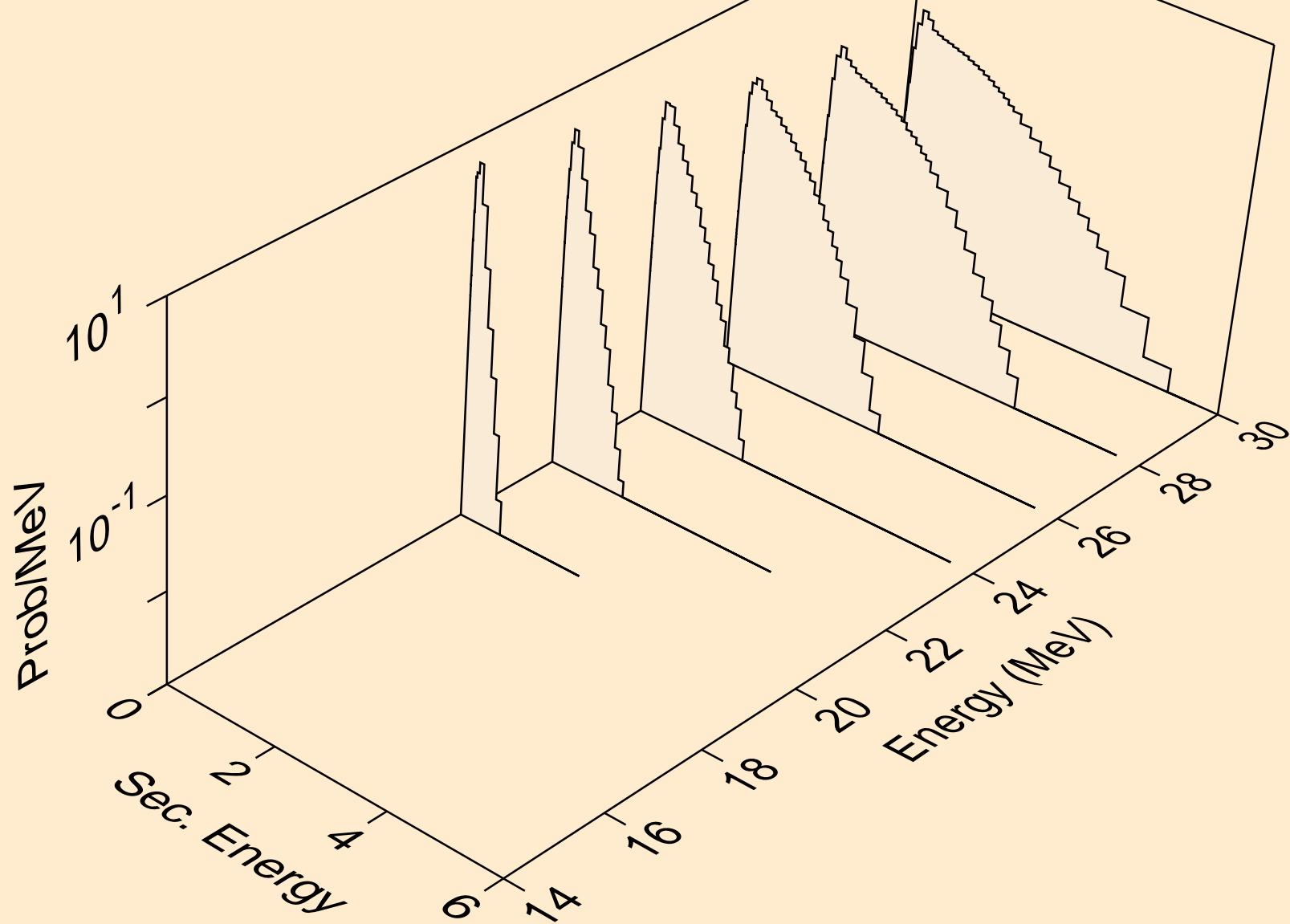
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Neutron emission for (n,2n)a



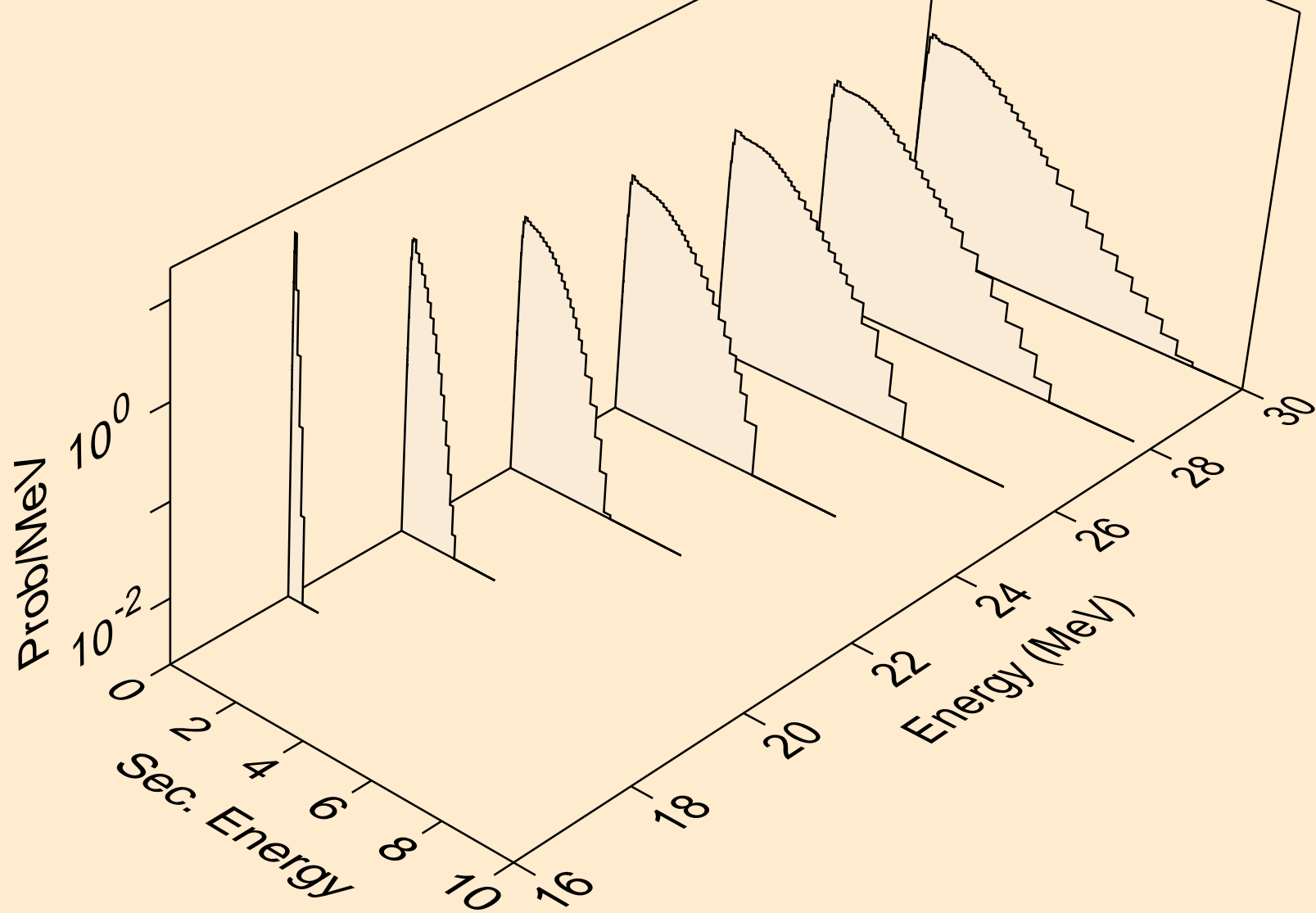
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a

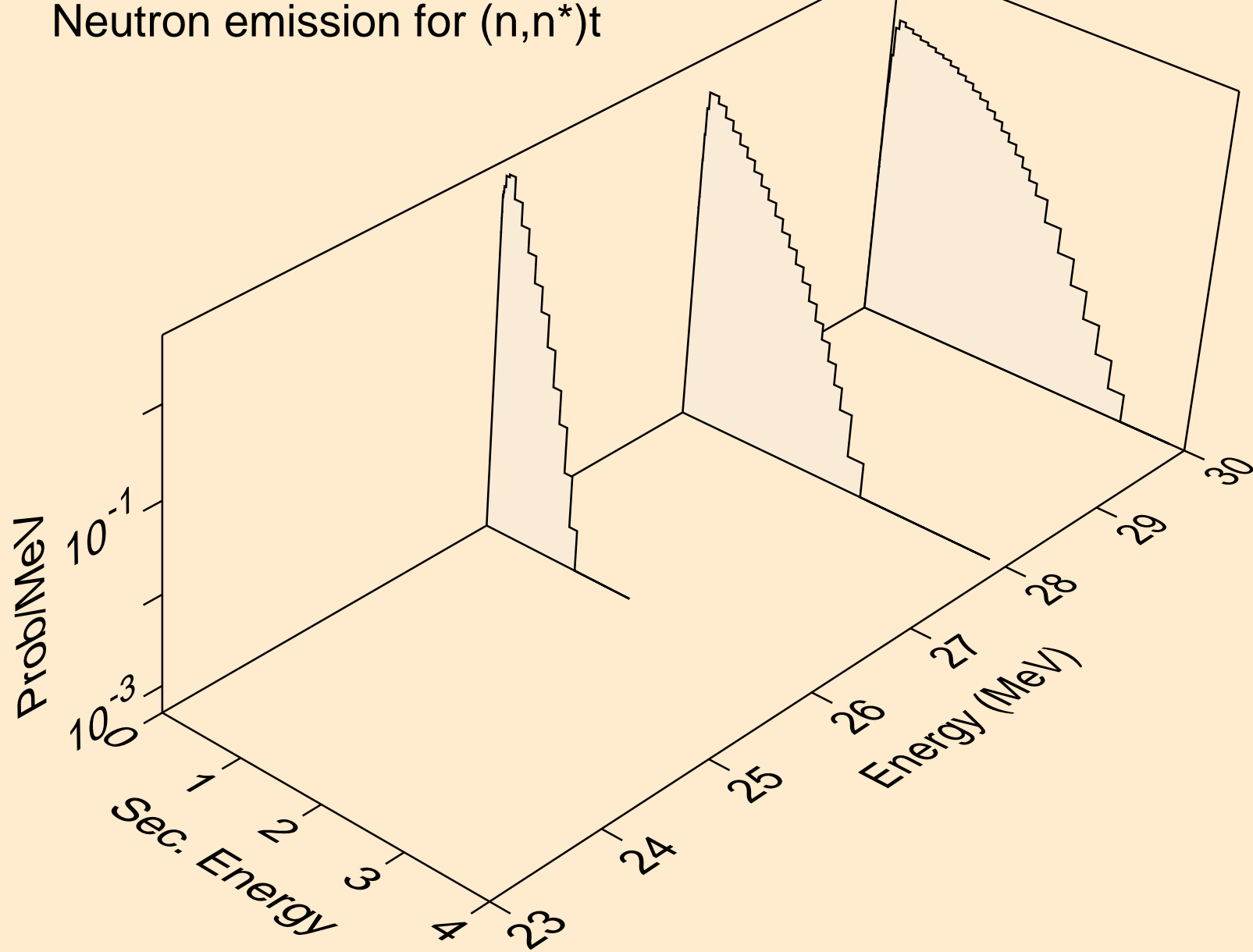


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

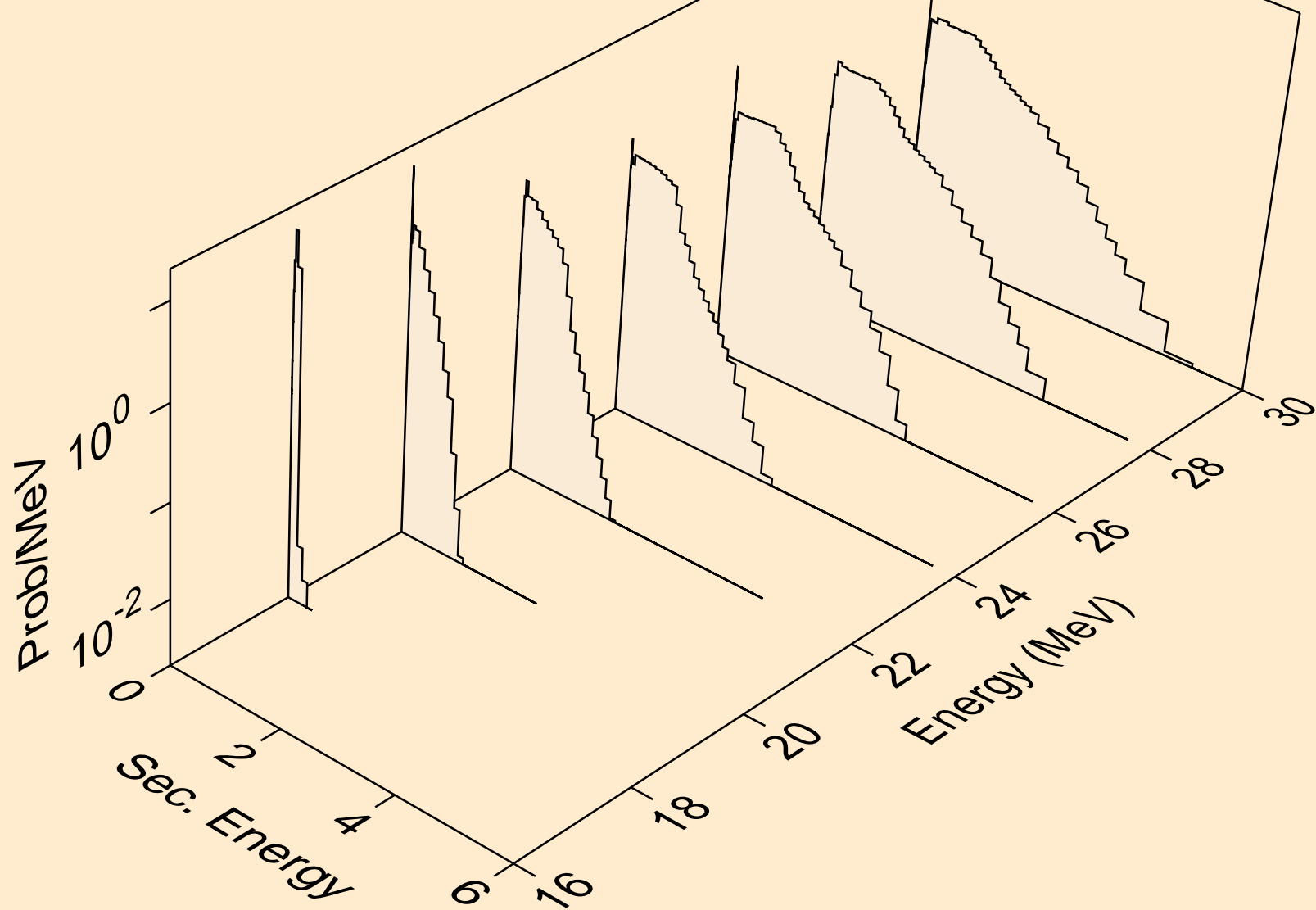




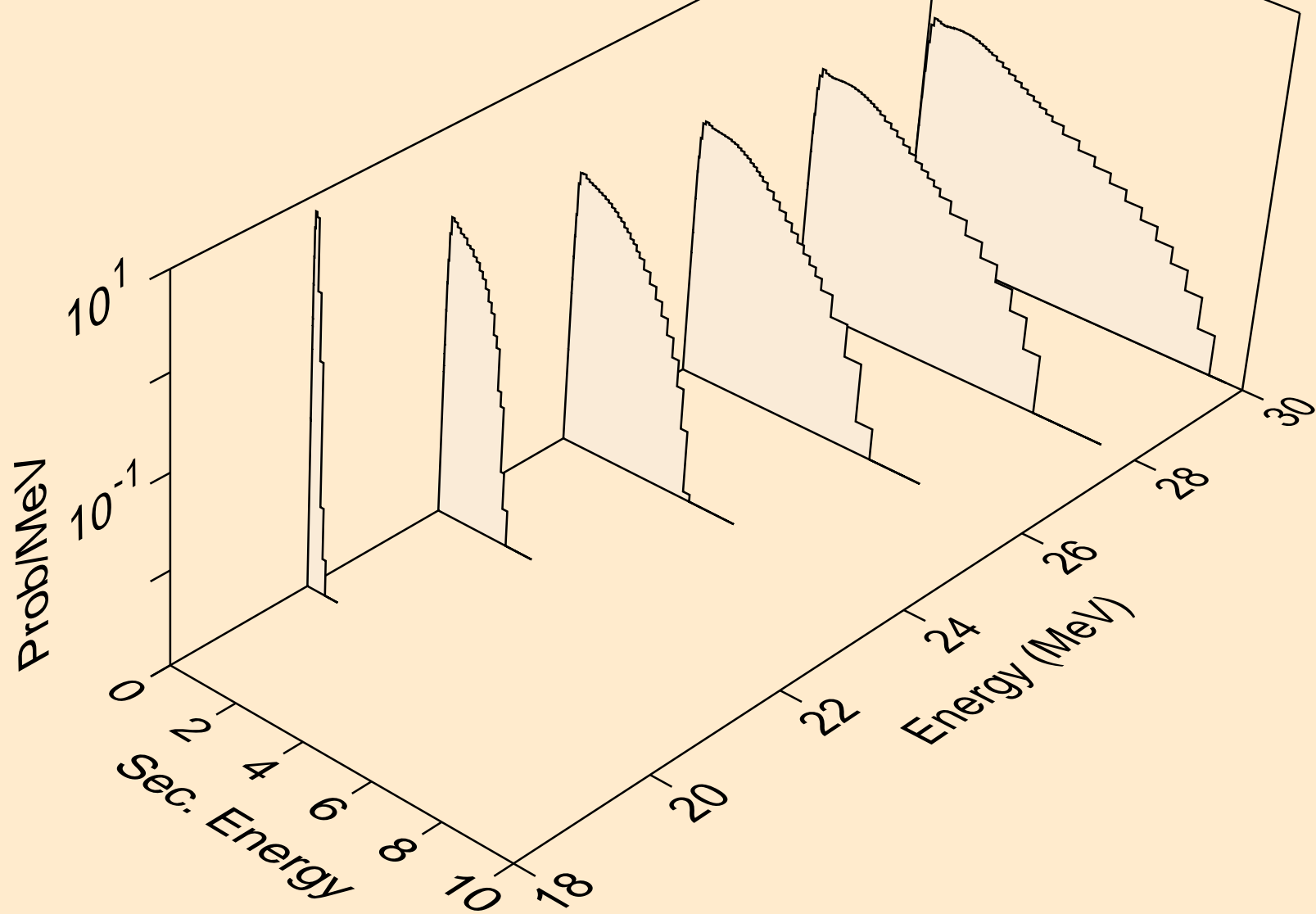
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



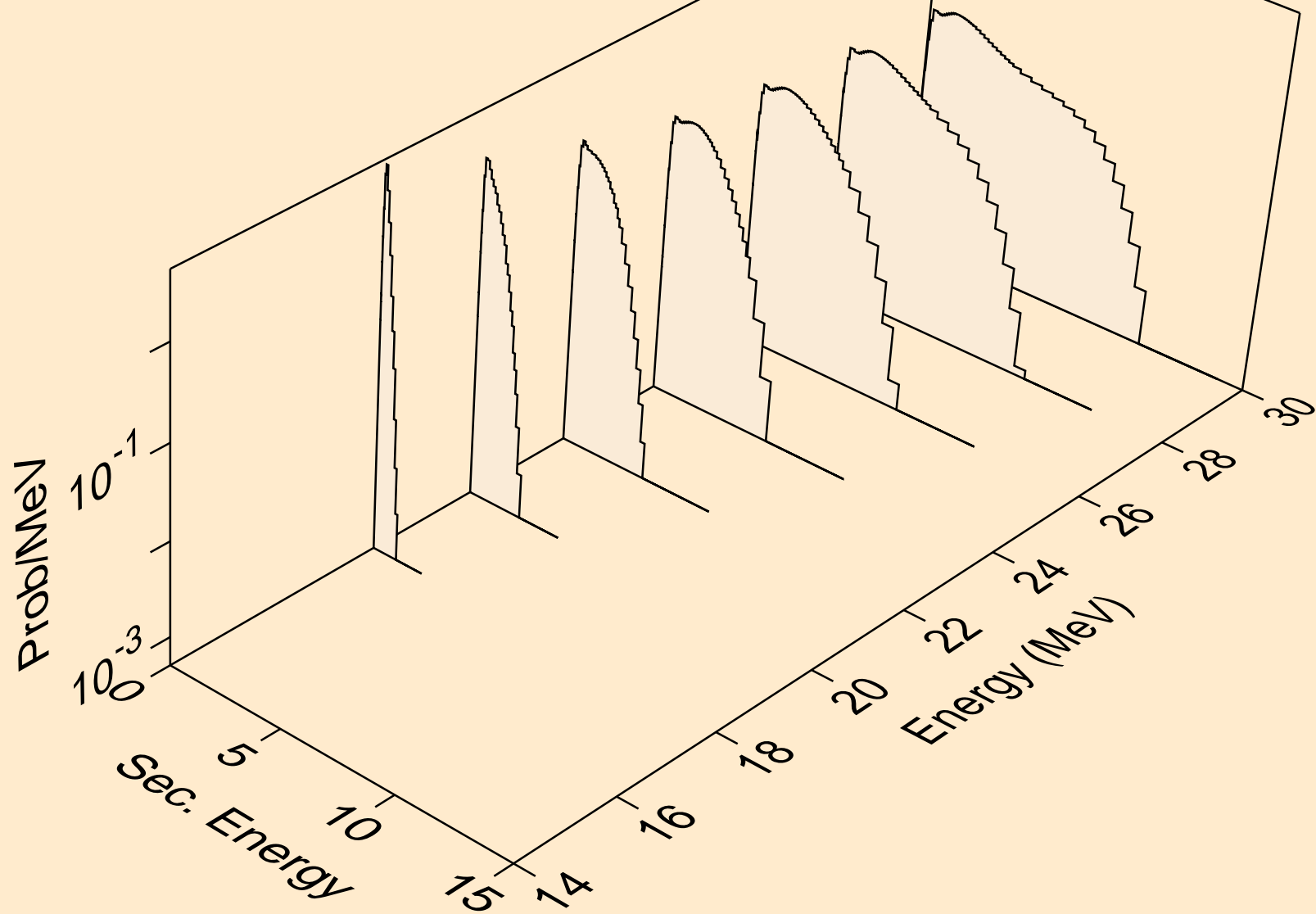
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Neutron emission for (n,n\*)he3



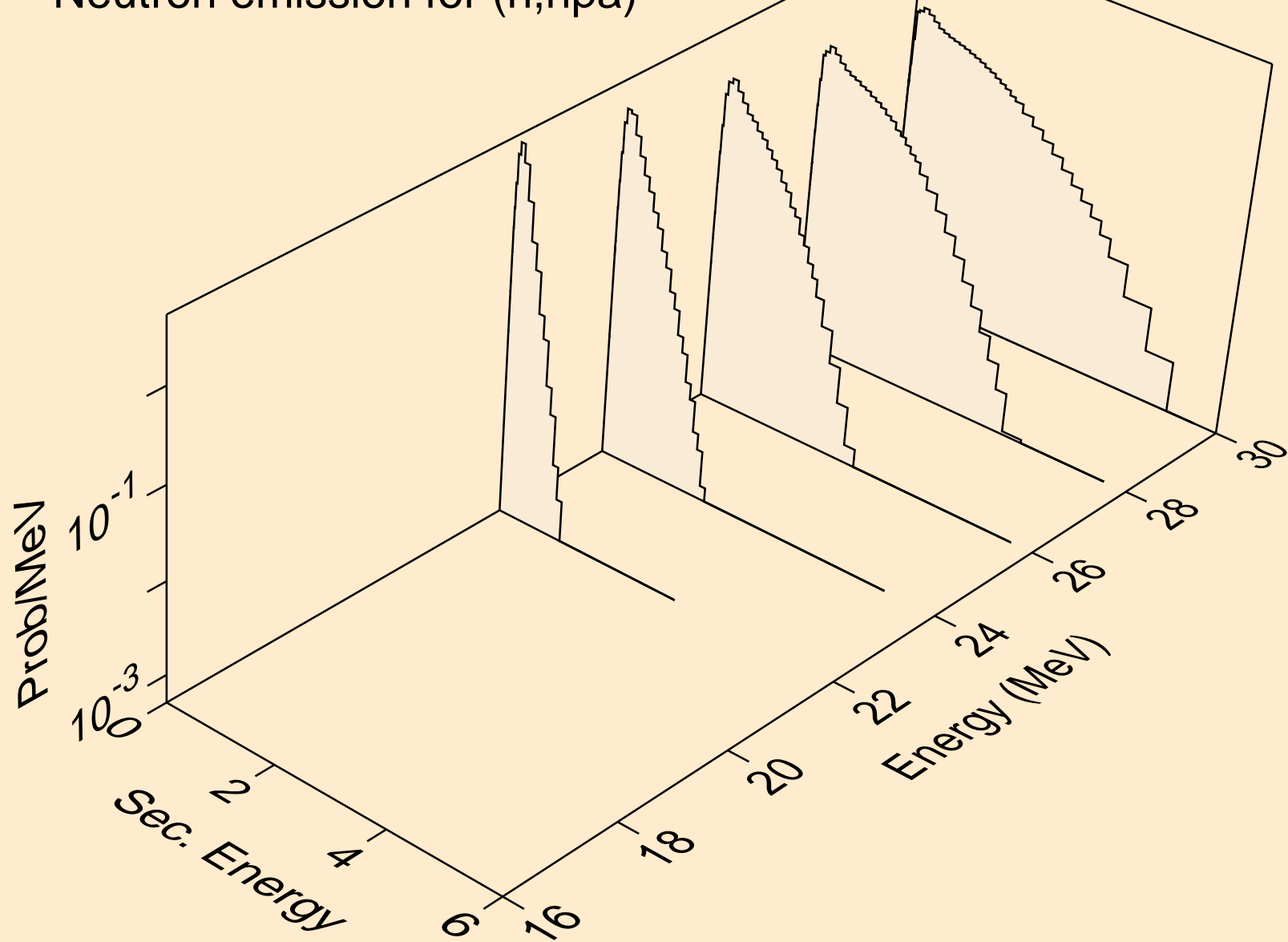
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Neutron emission for (n,2np)



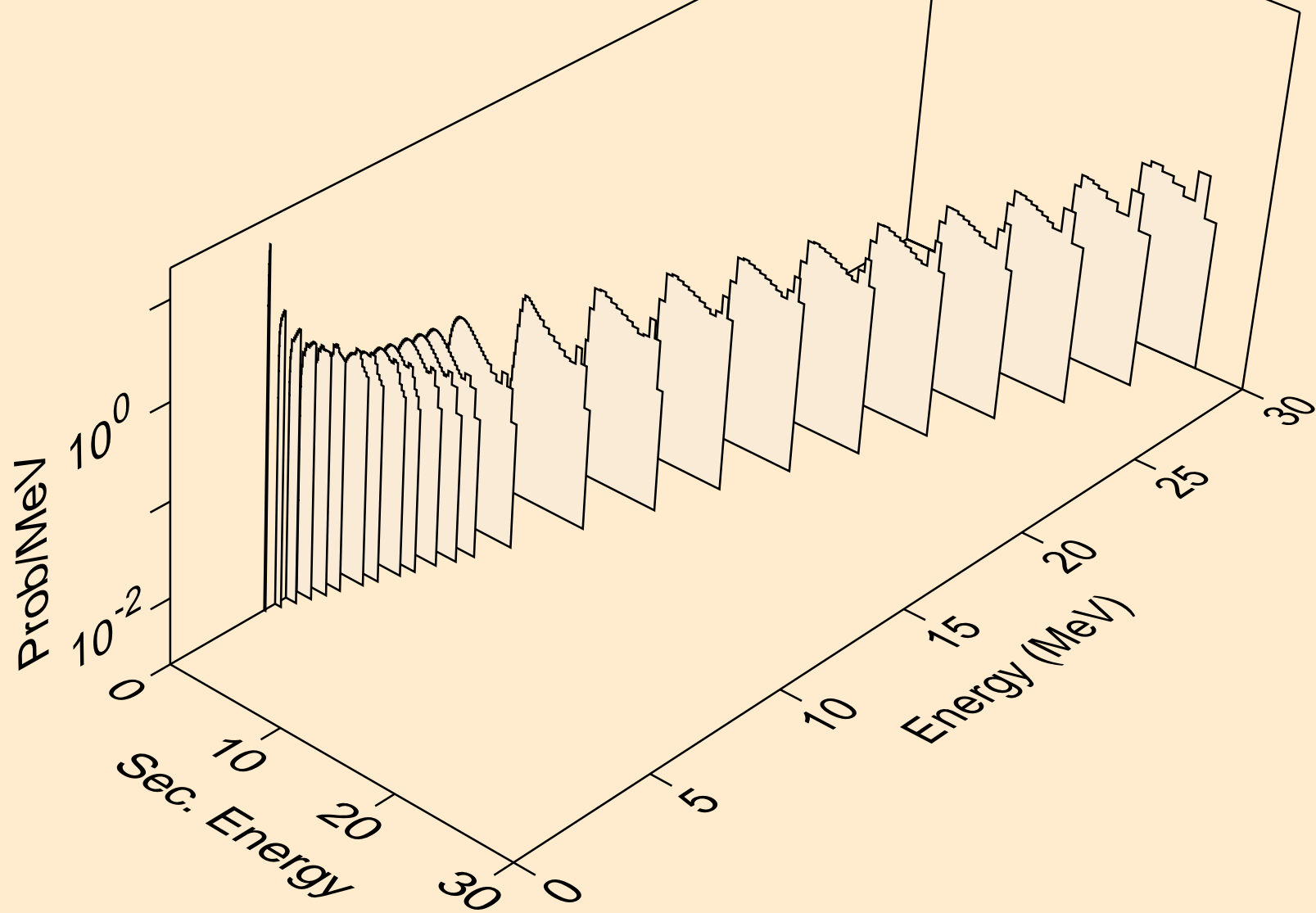
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Neutron emission for (n,n2p)



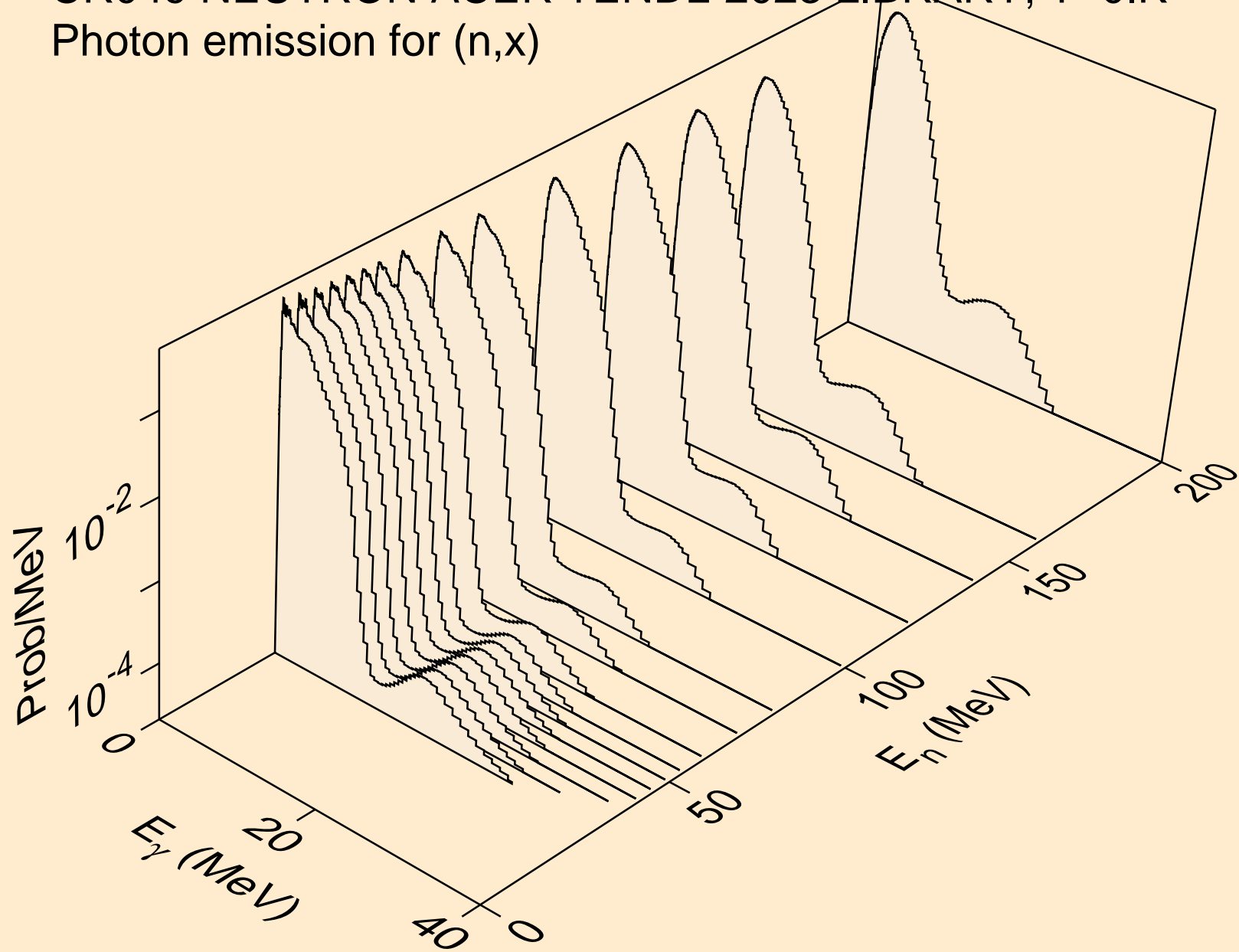
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



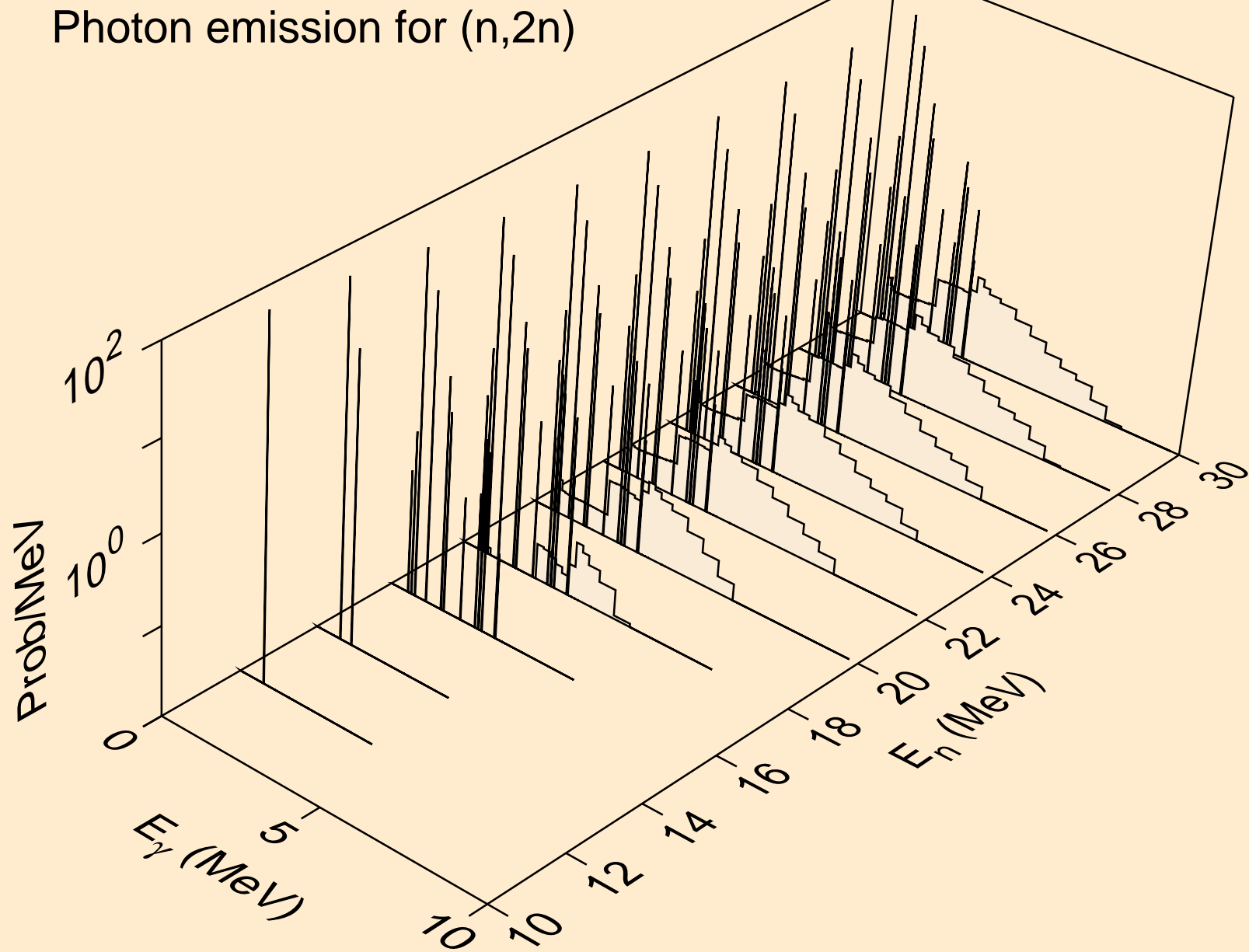
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)

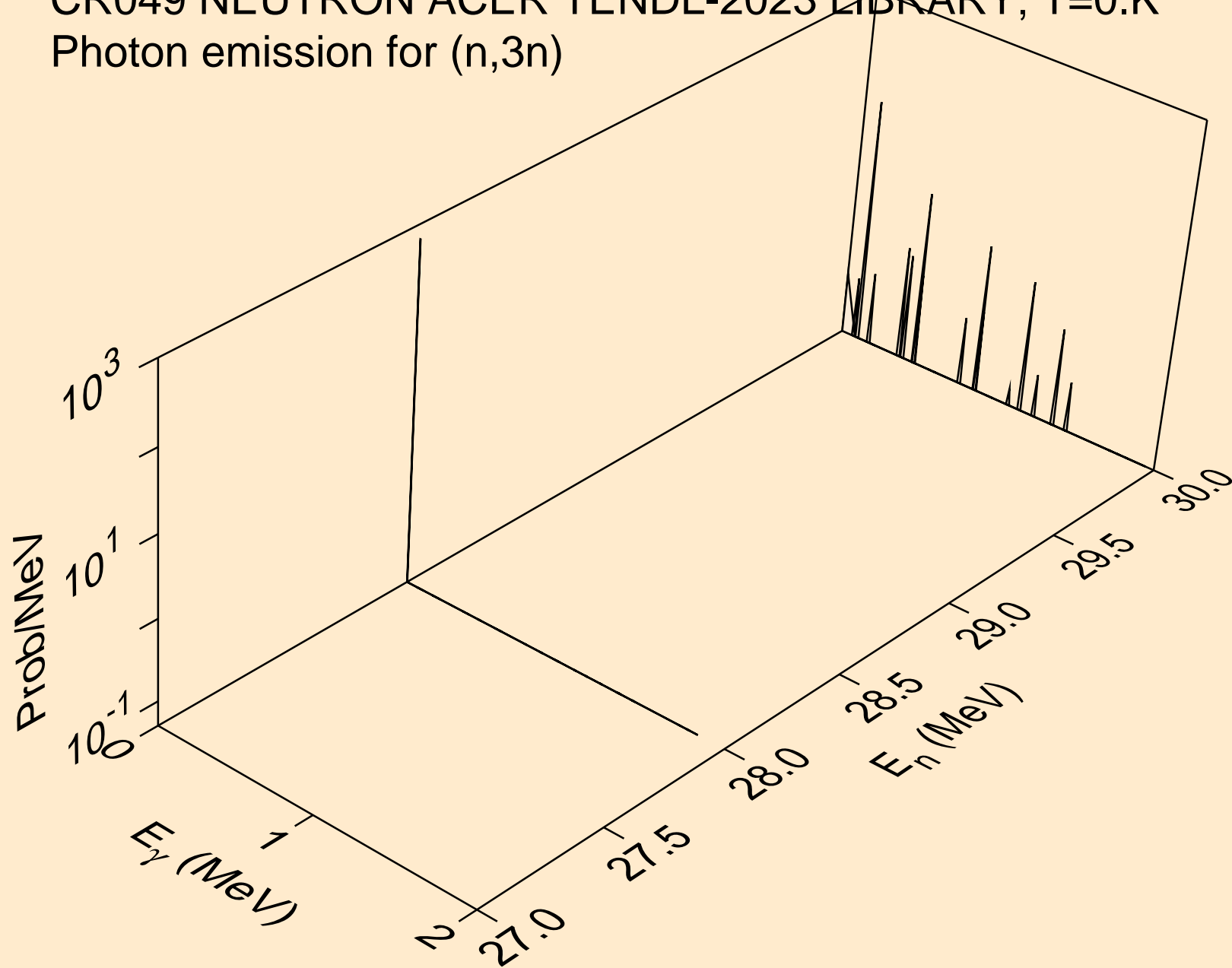


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

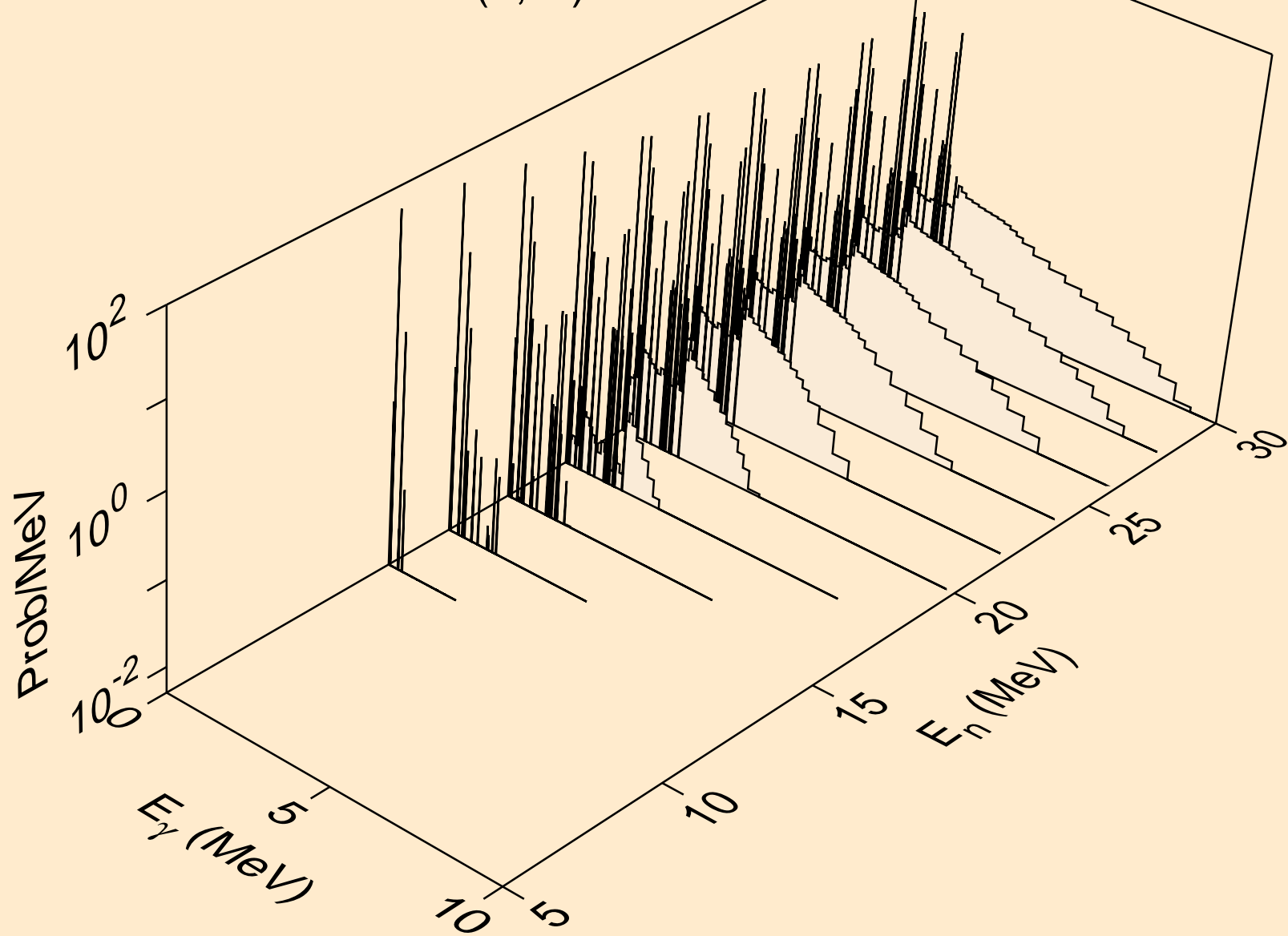




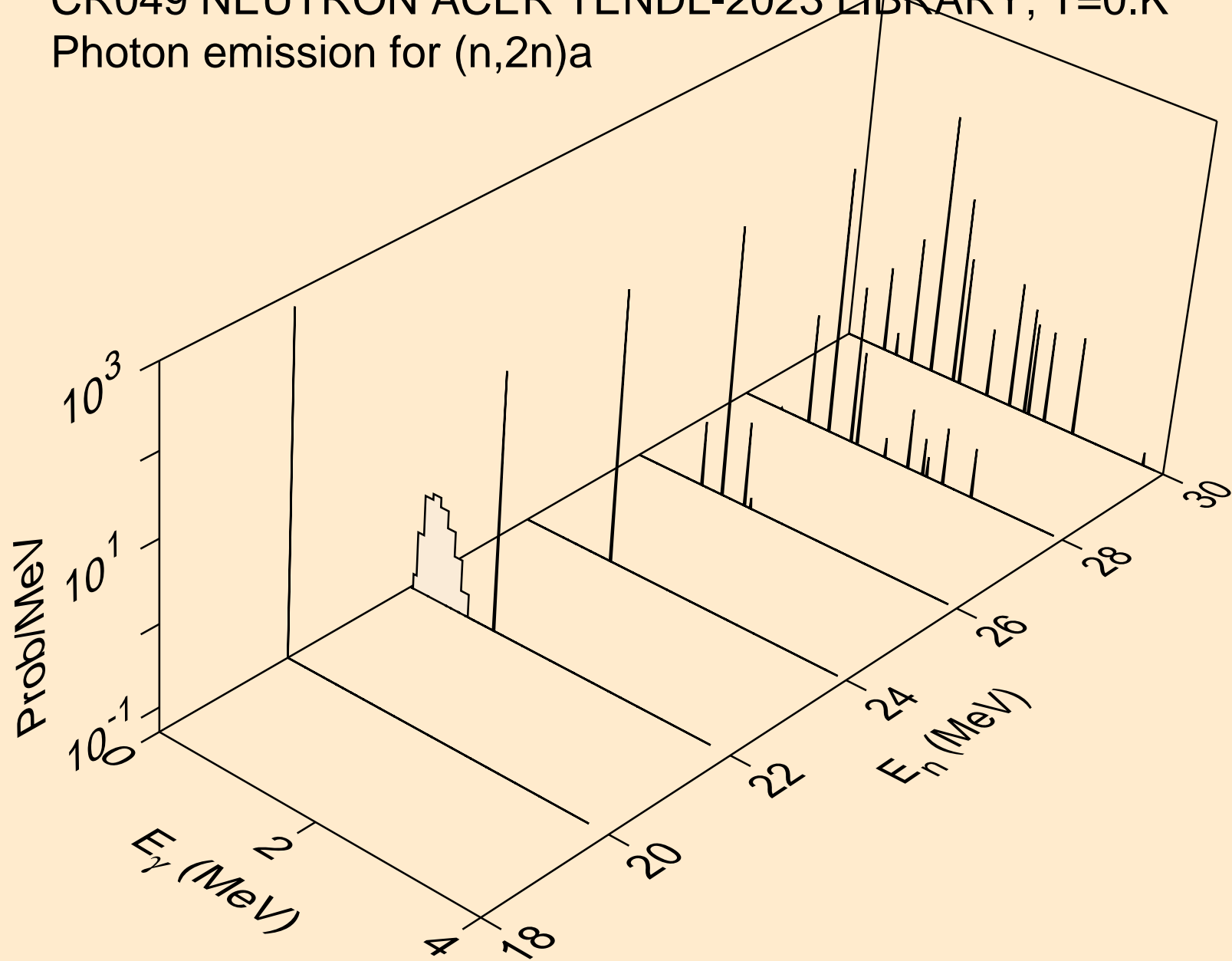
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



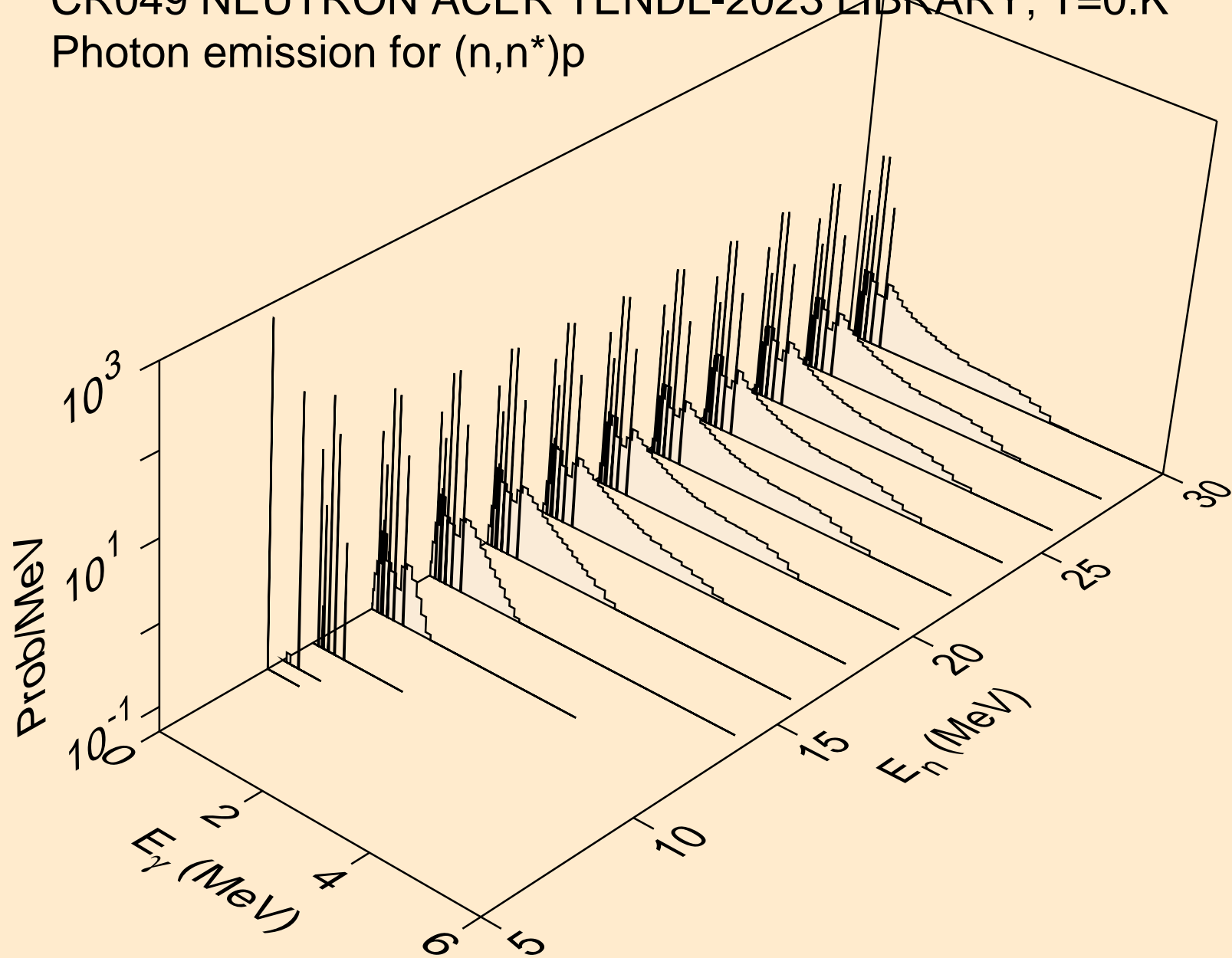
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Photon emission for (n,n\*)a



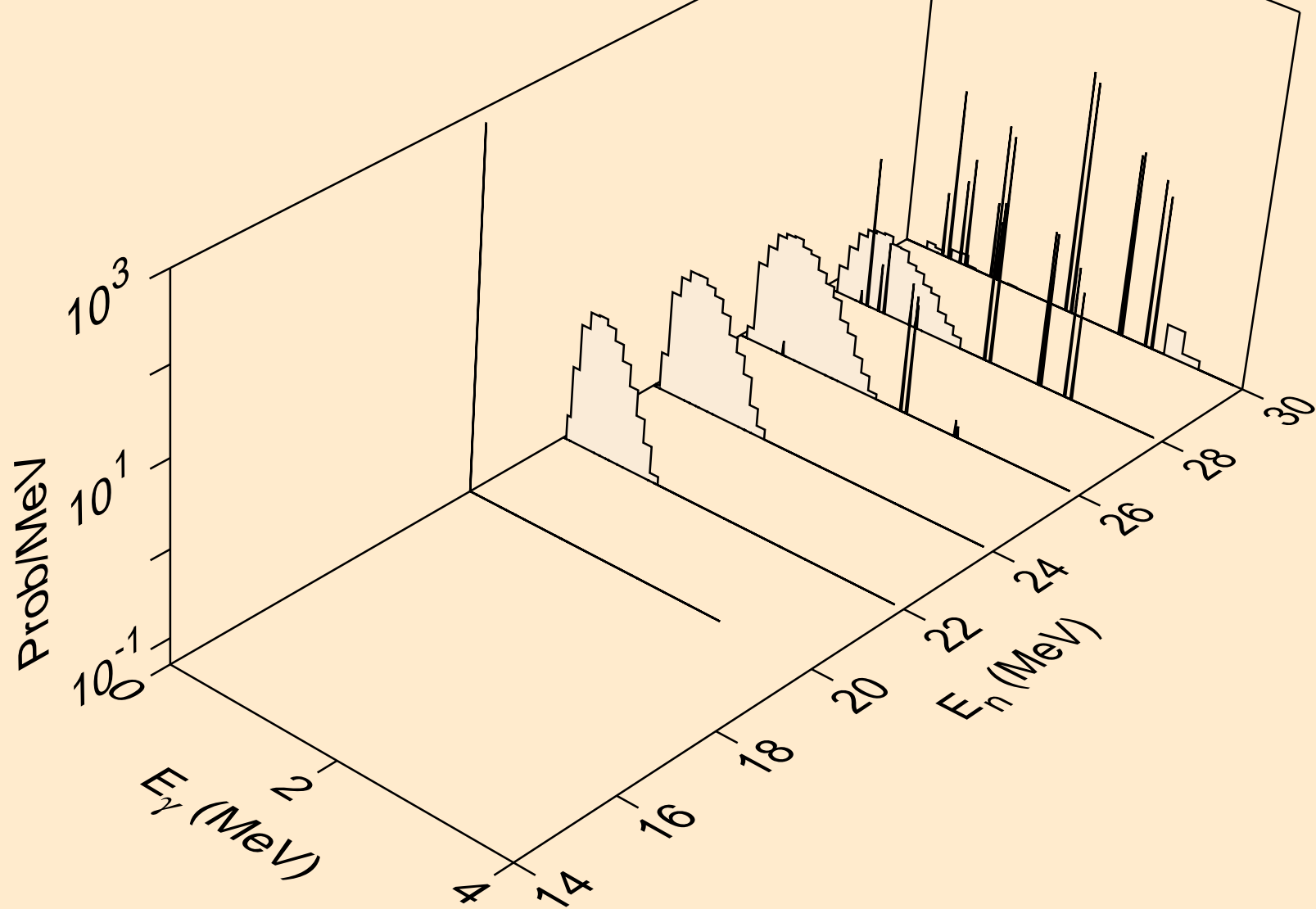
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Photon emission for (n,2n)a



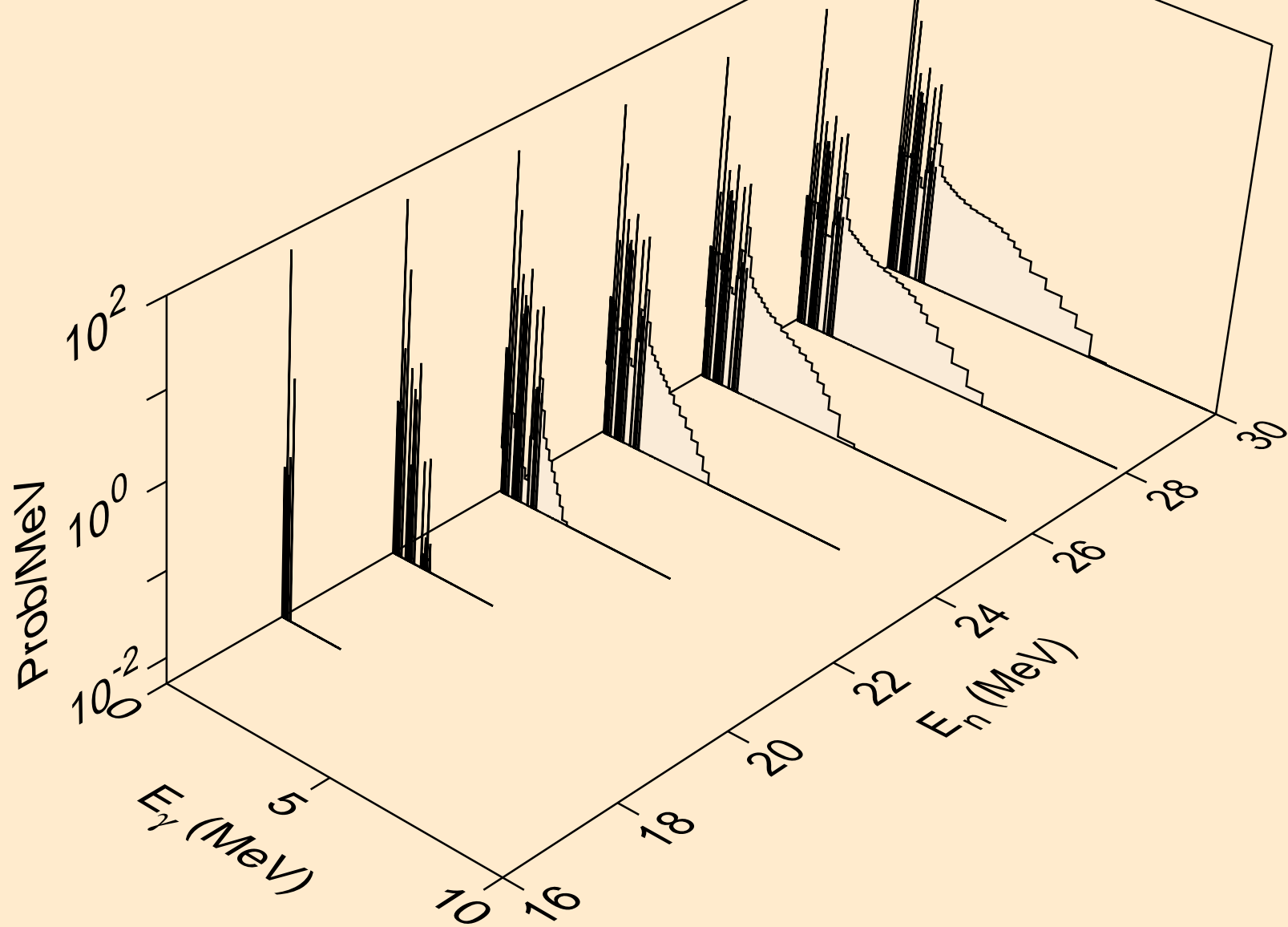
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



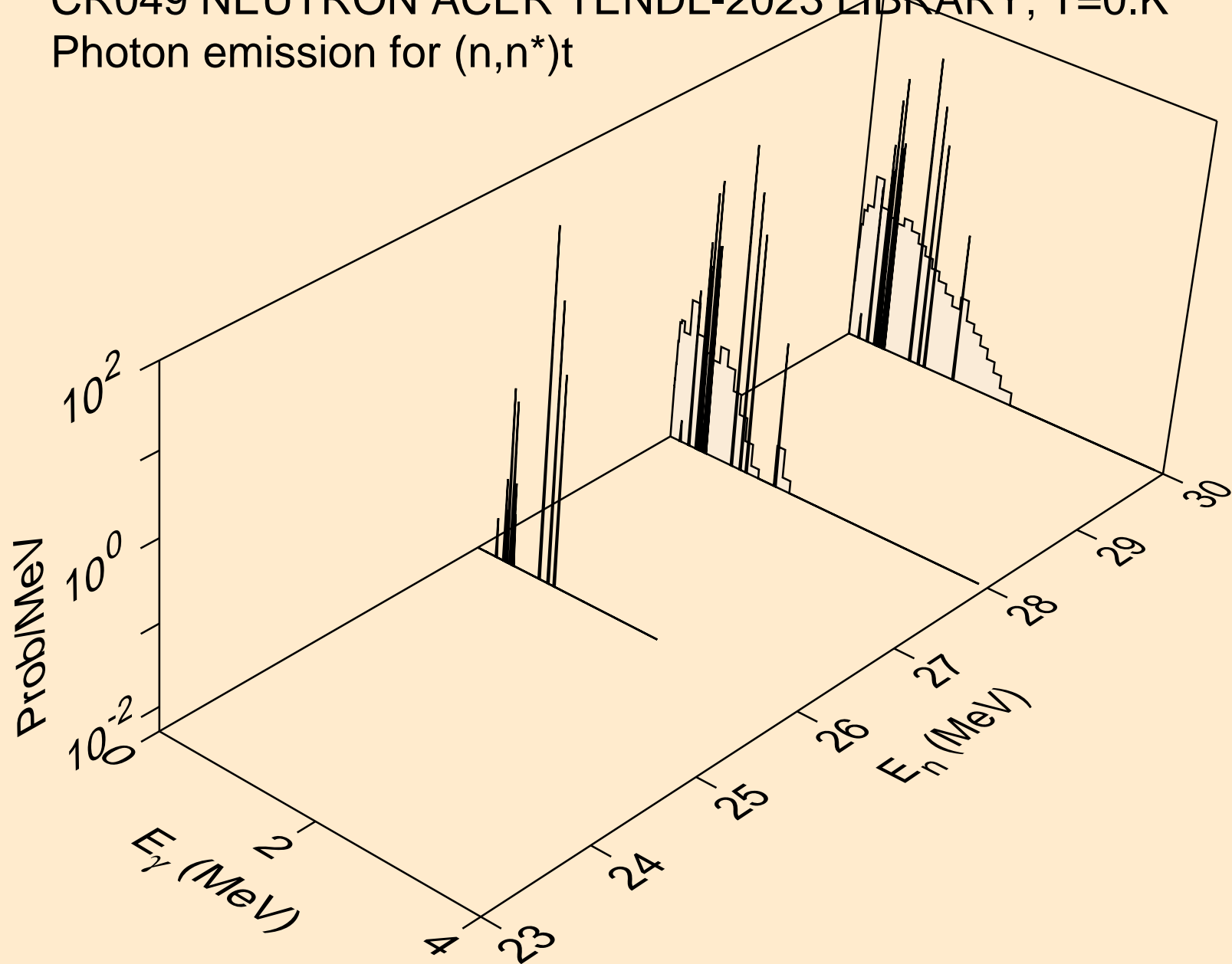
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



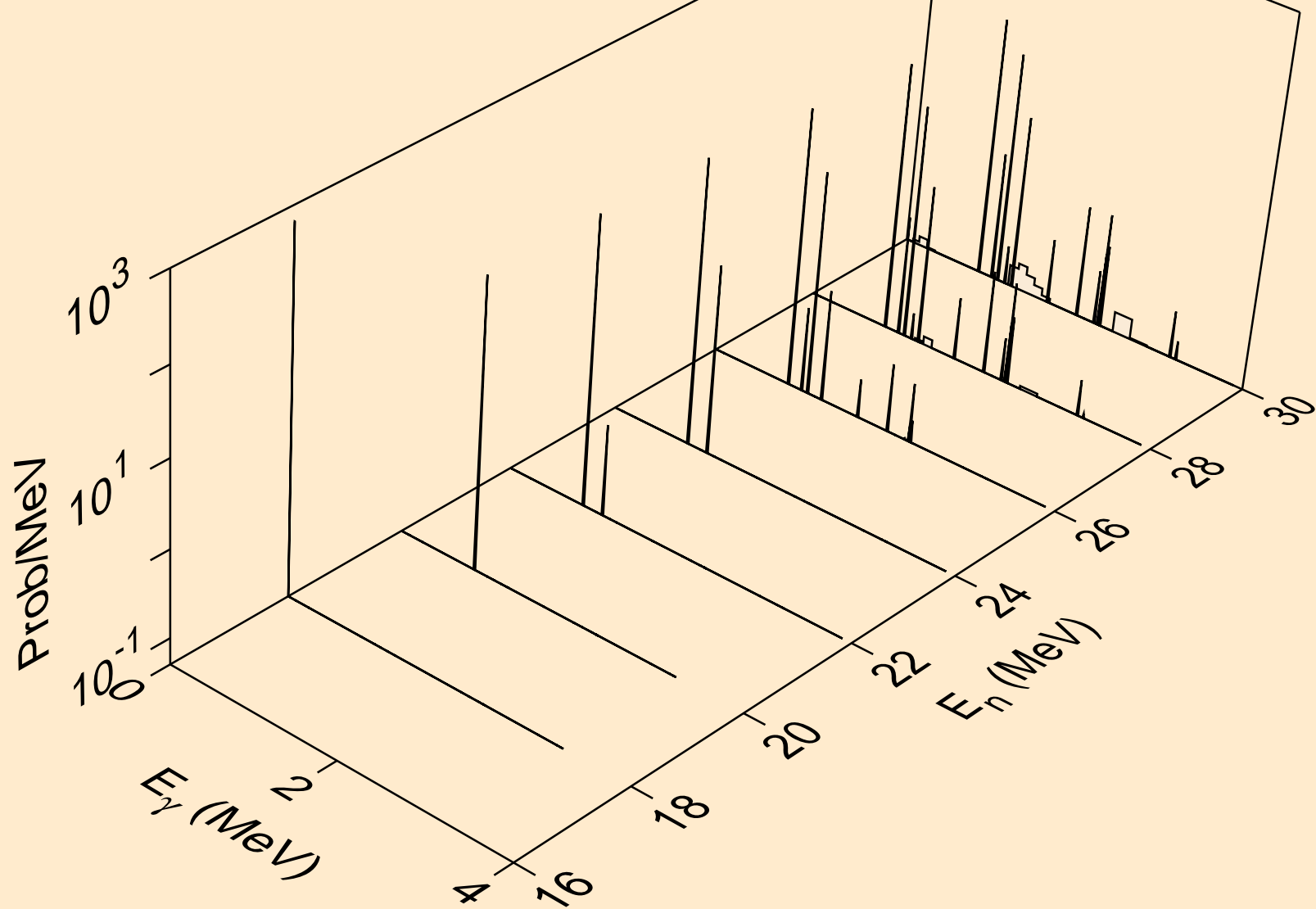
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

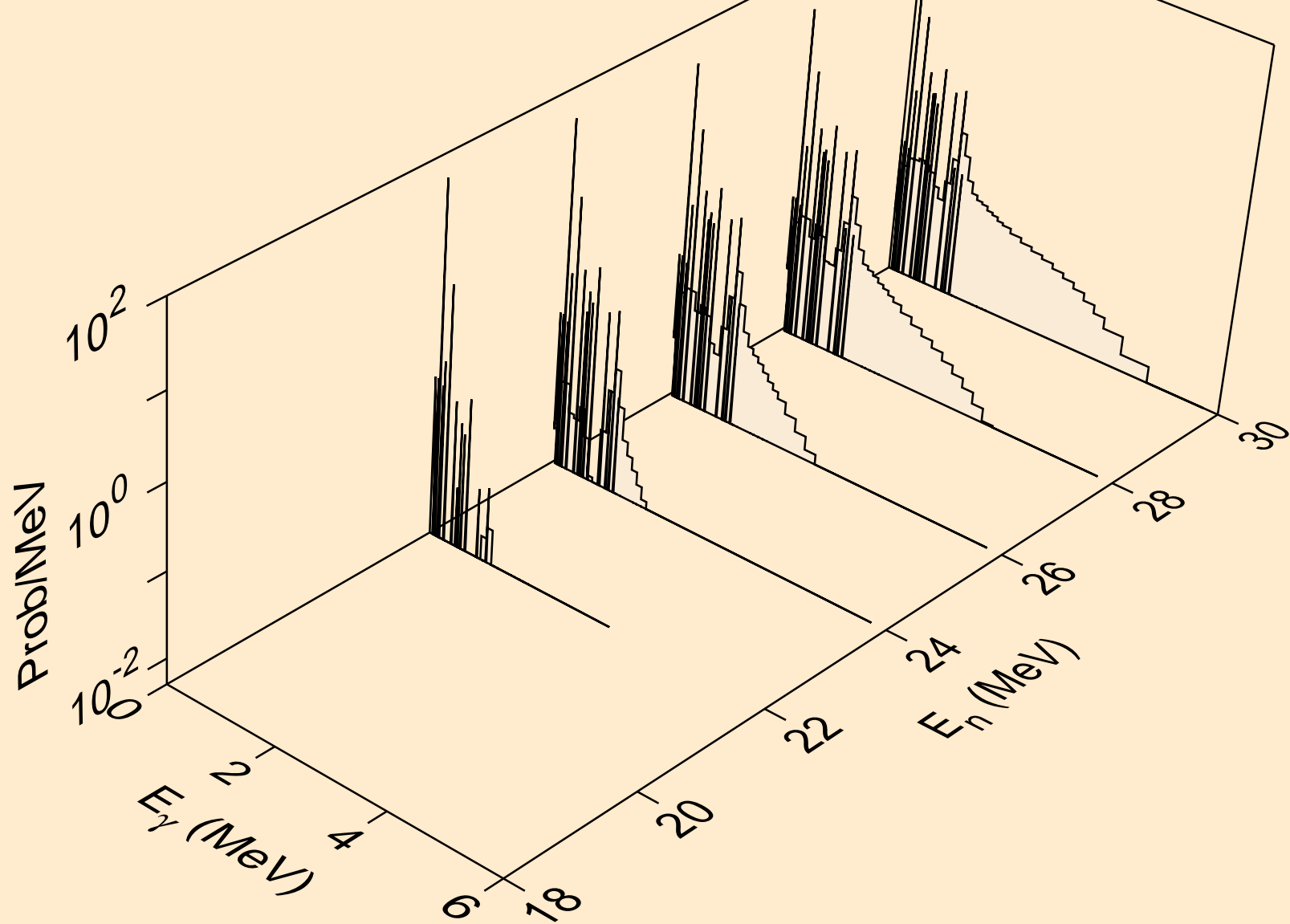


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

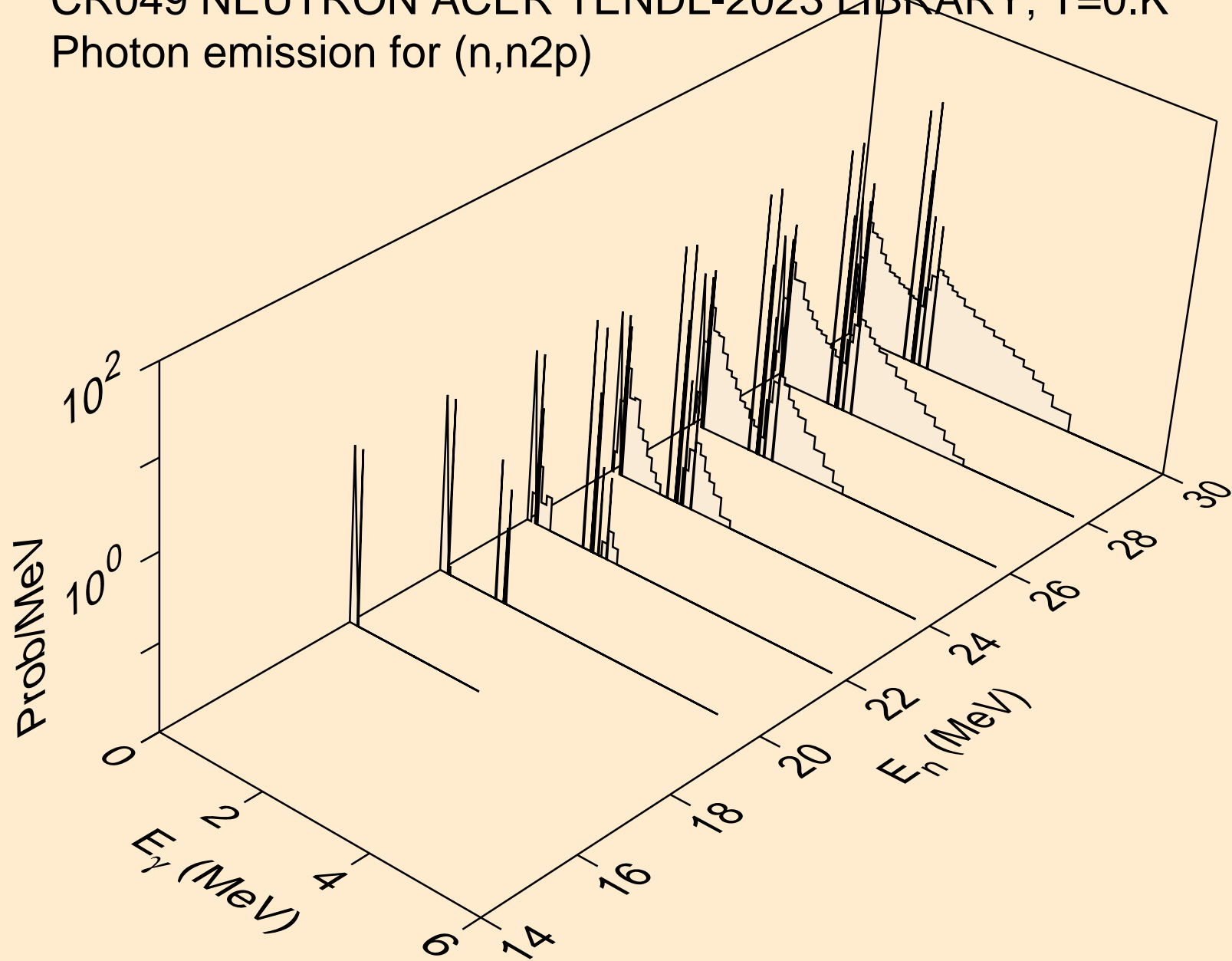




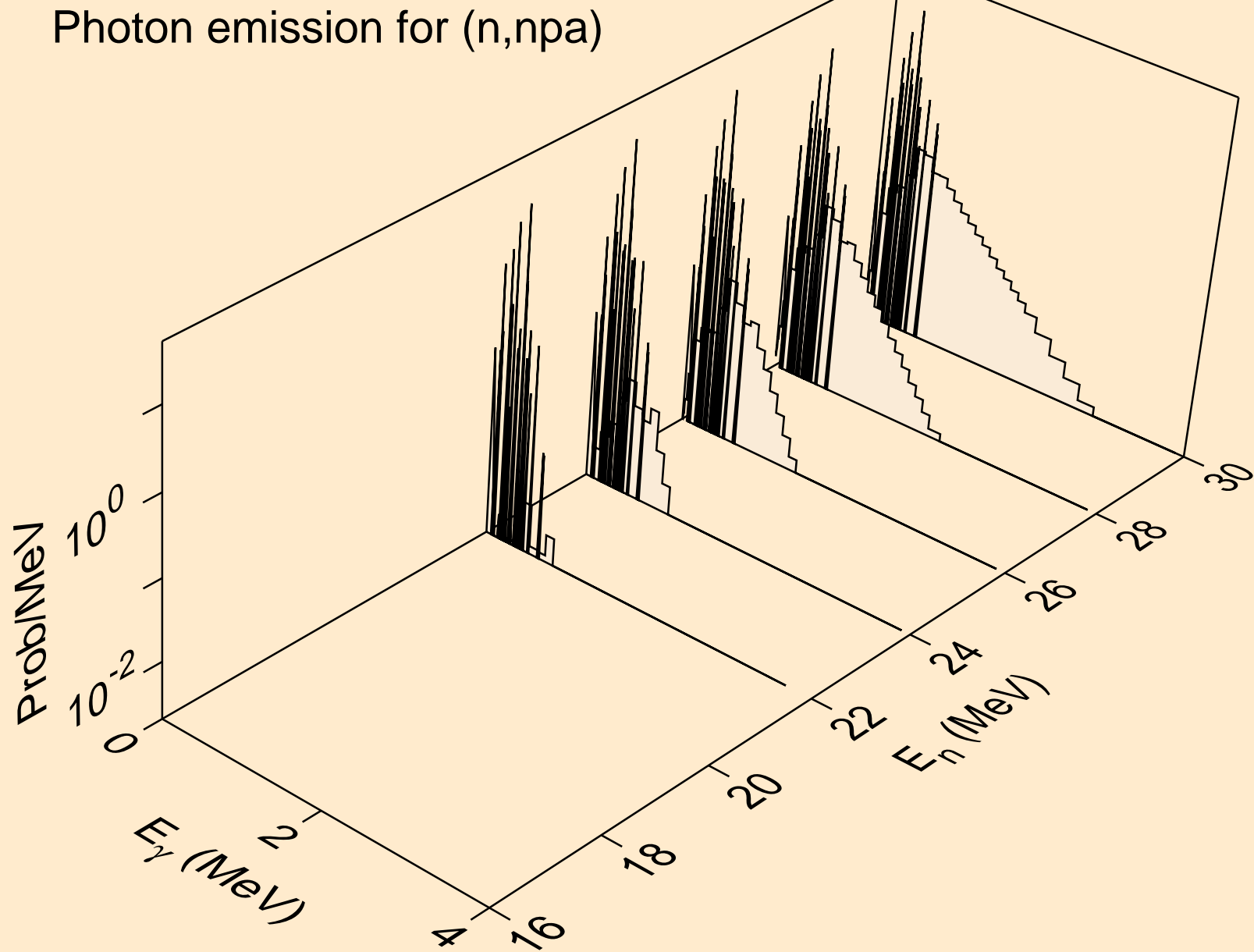
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



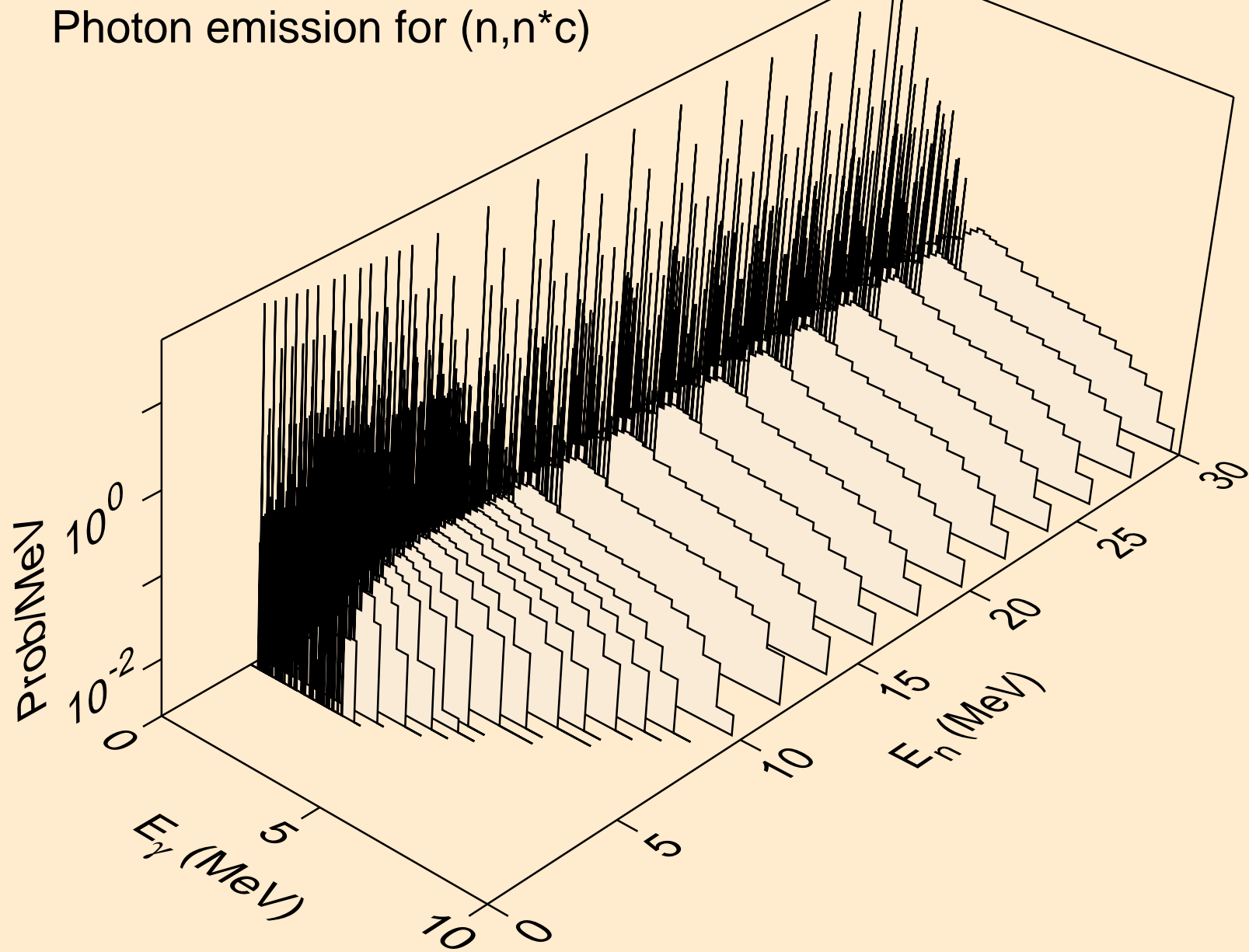
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Photon emission for (n,n2p)



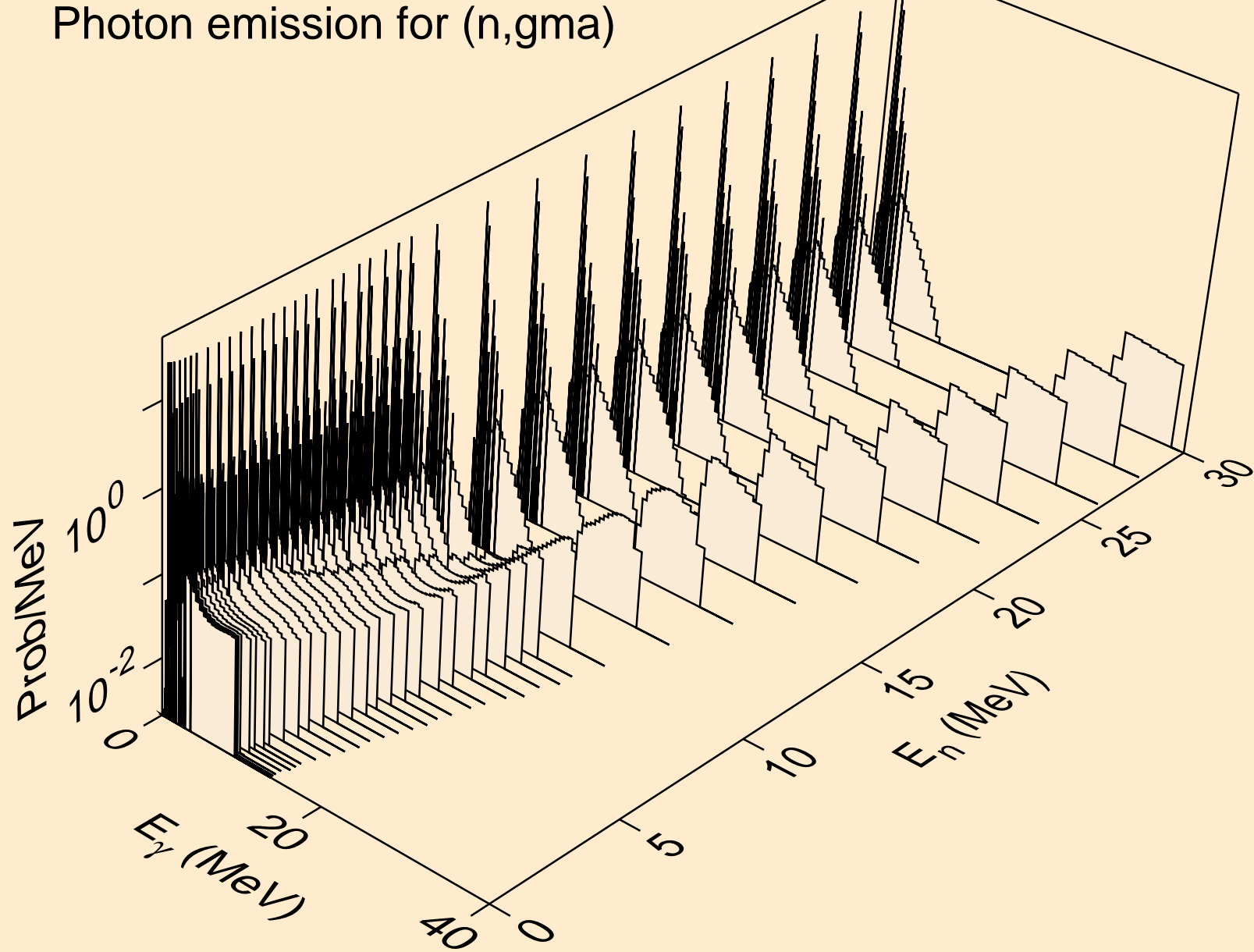
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



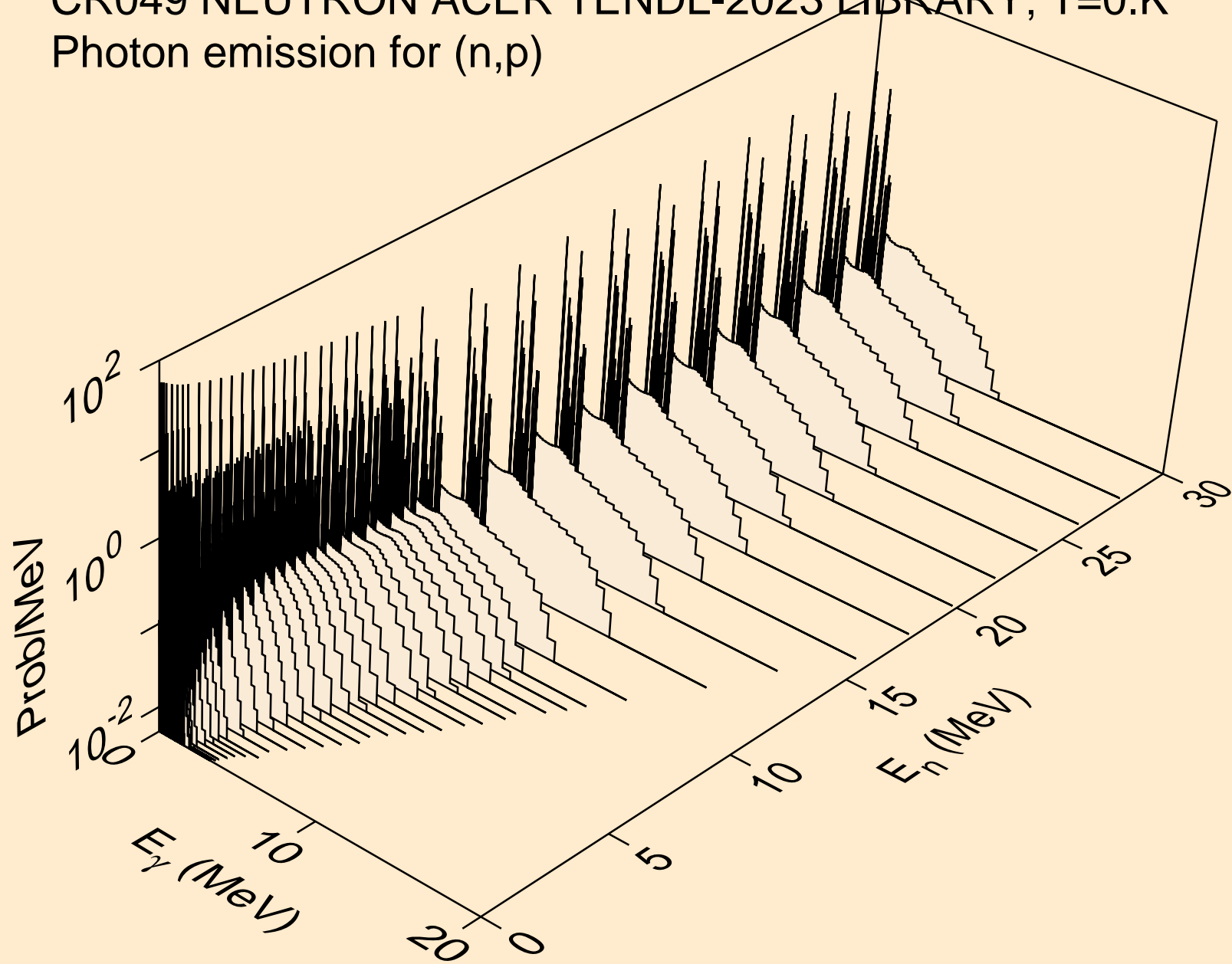
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



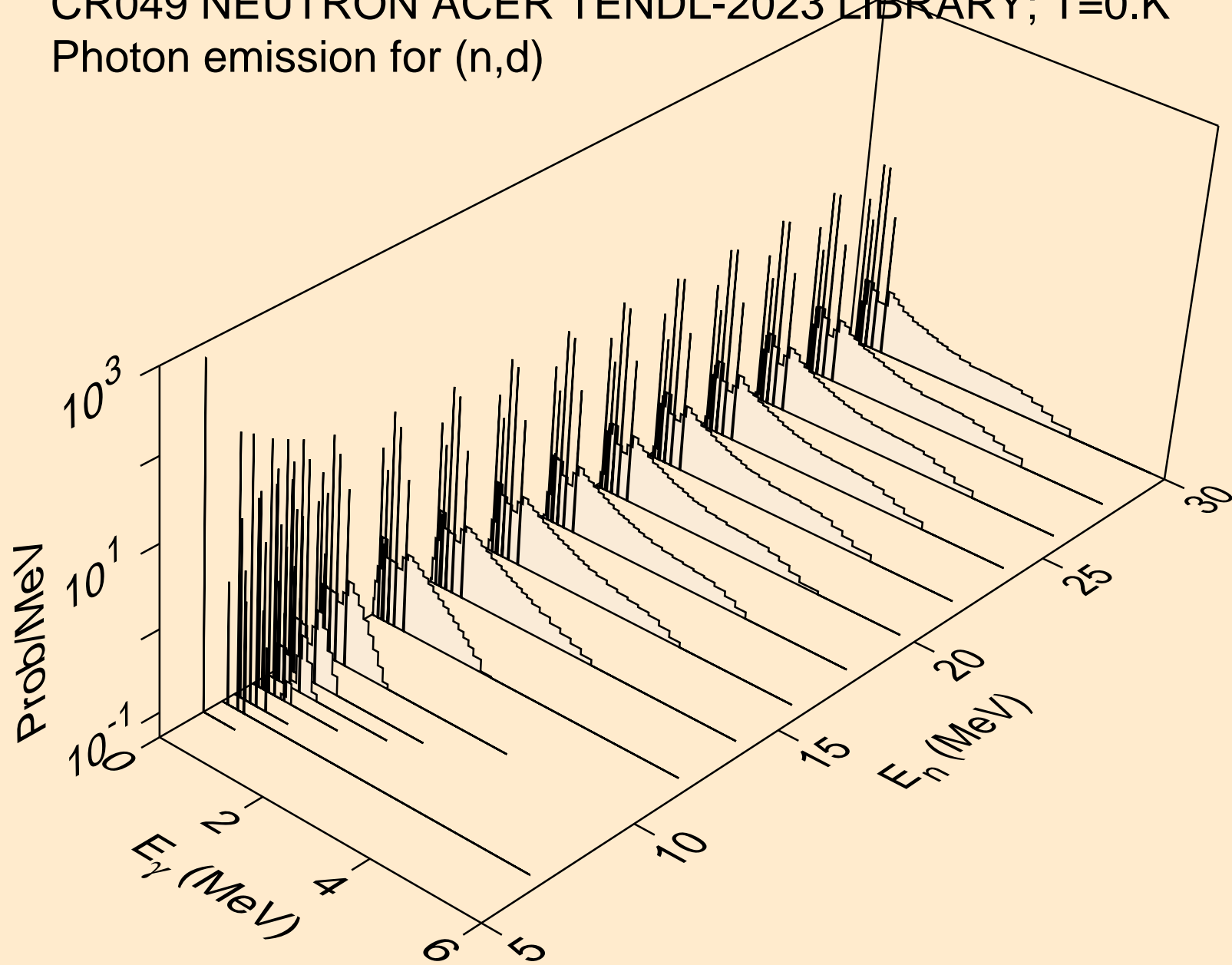
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



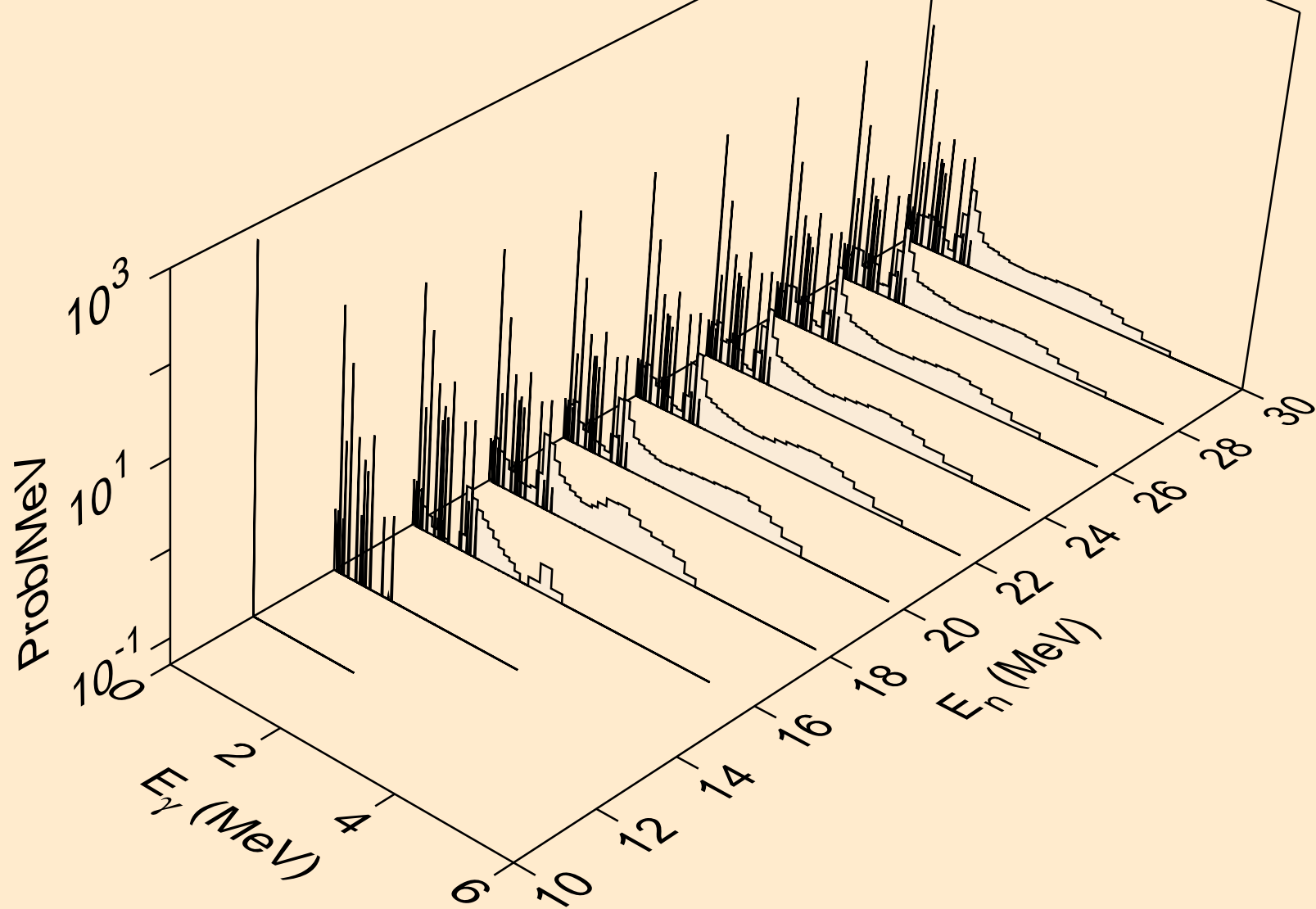
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)

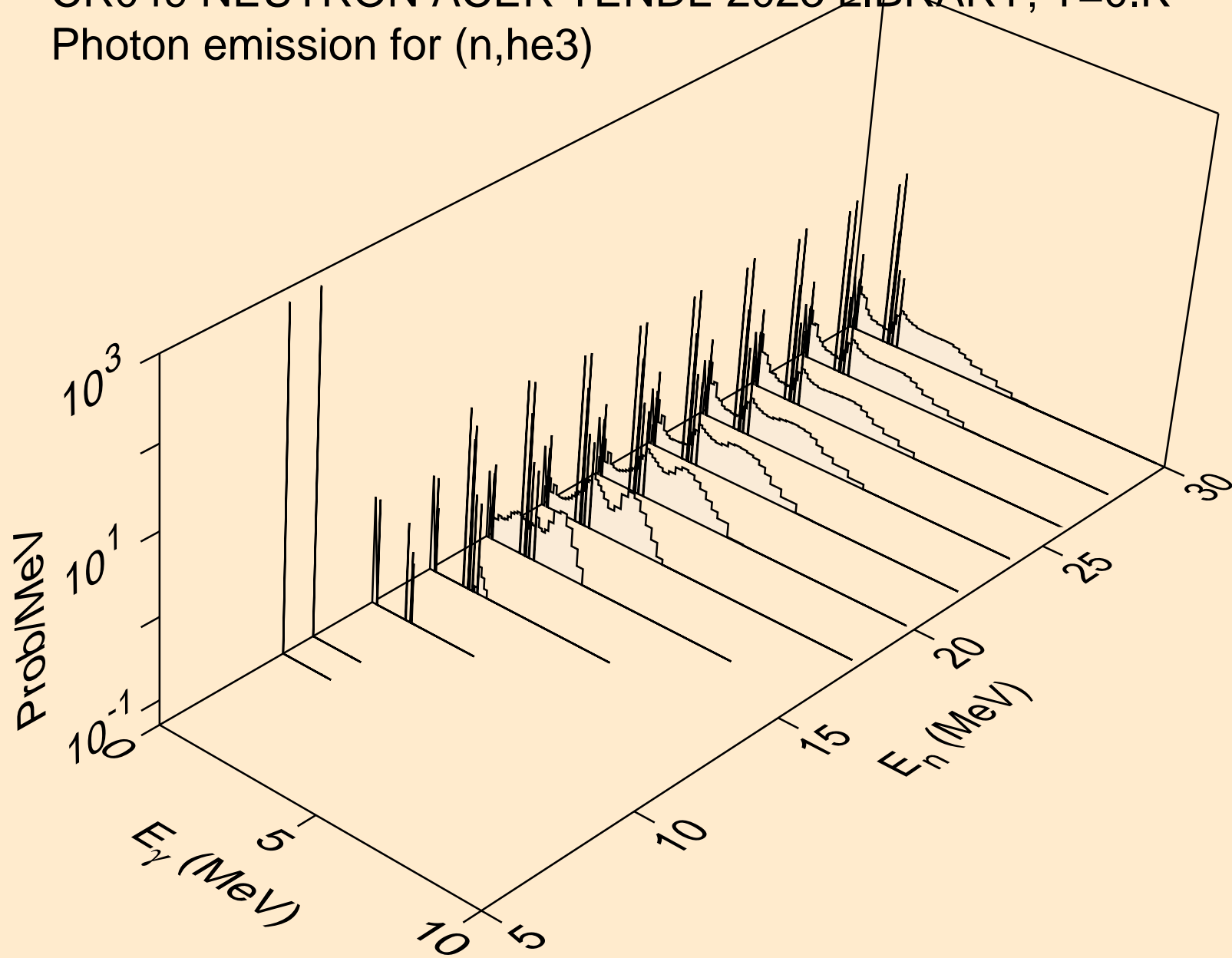


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

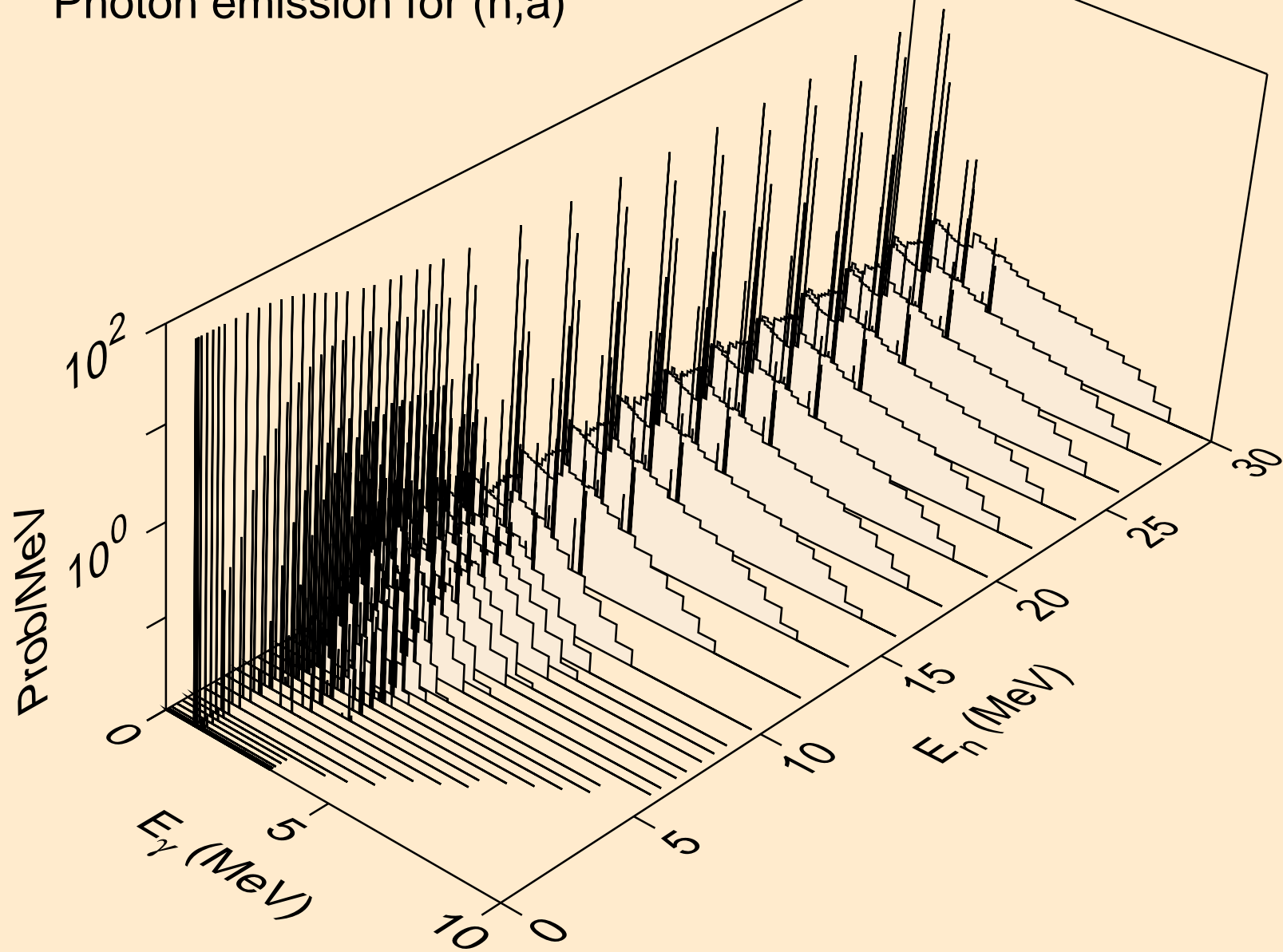




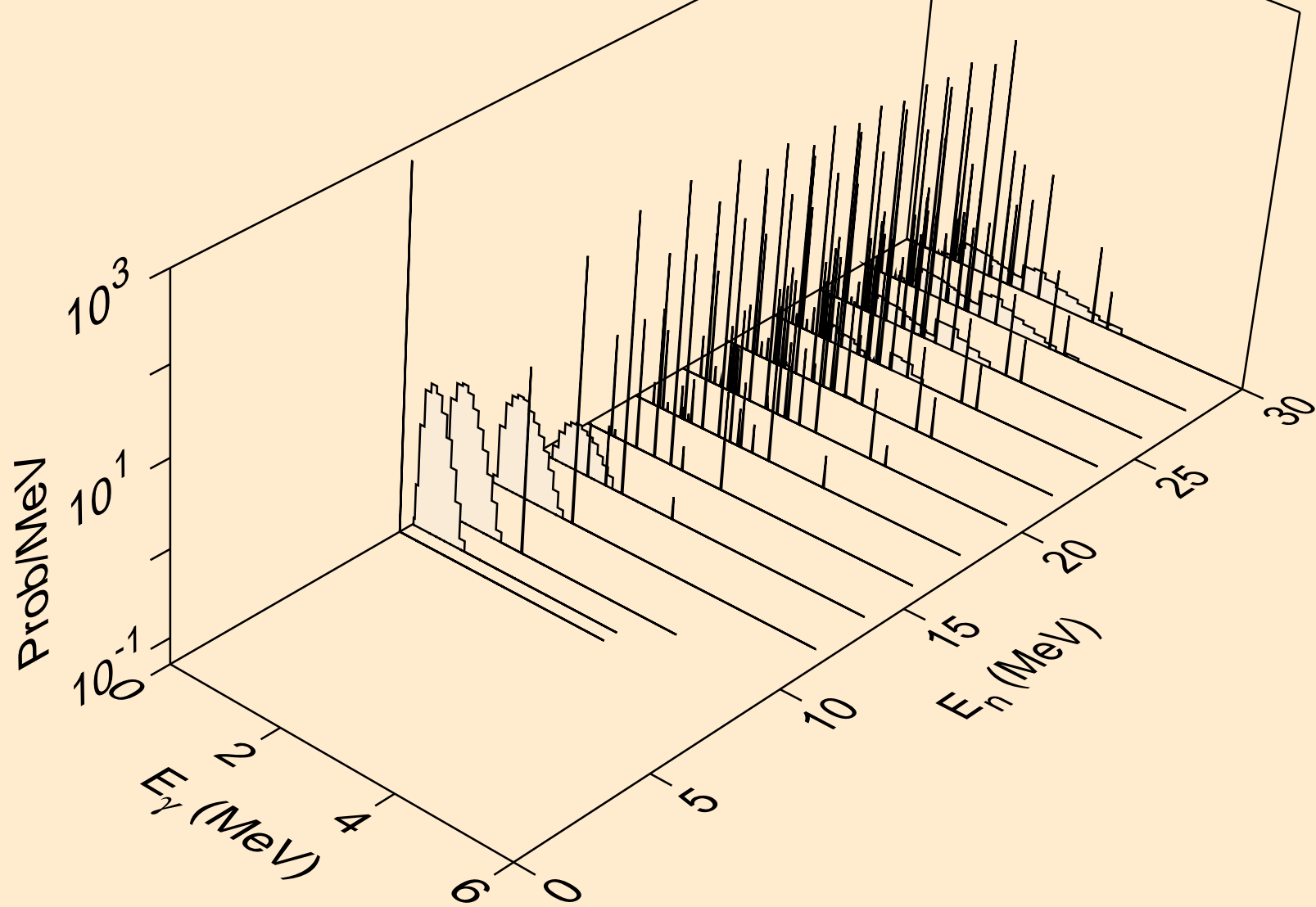
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



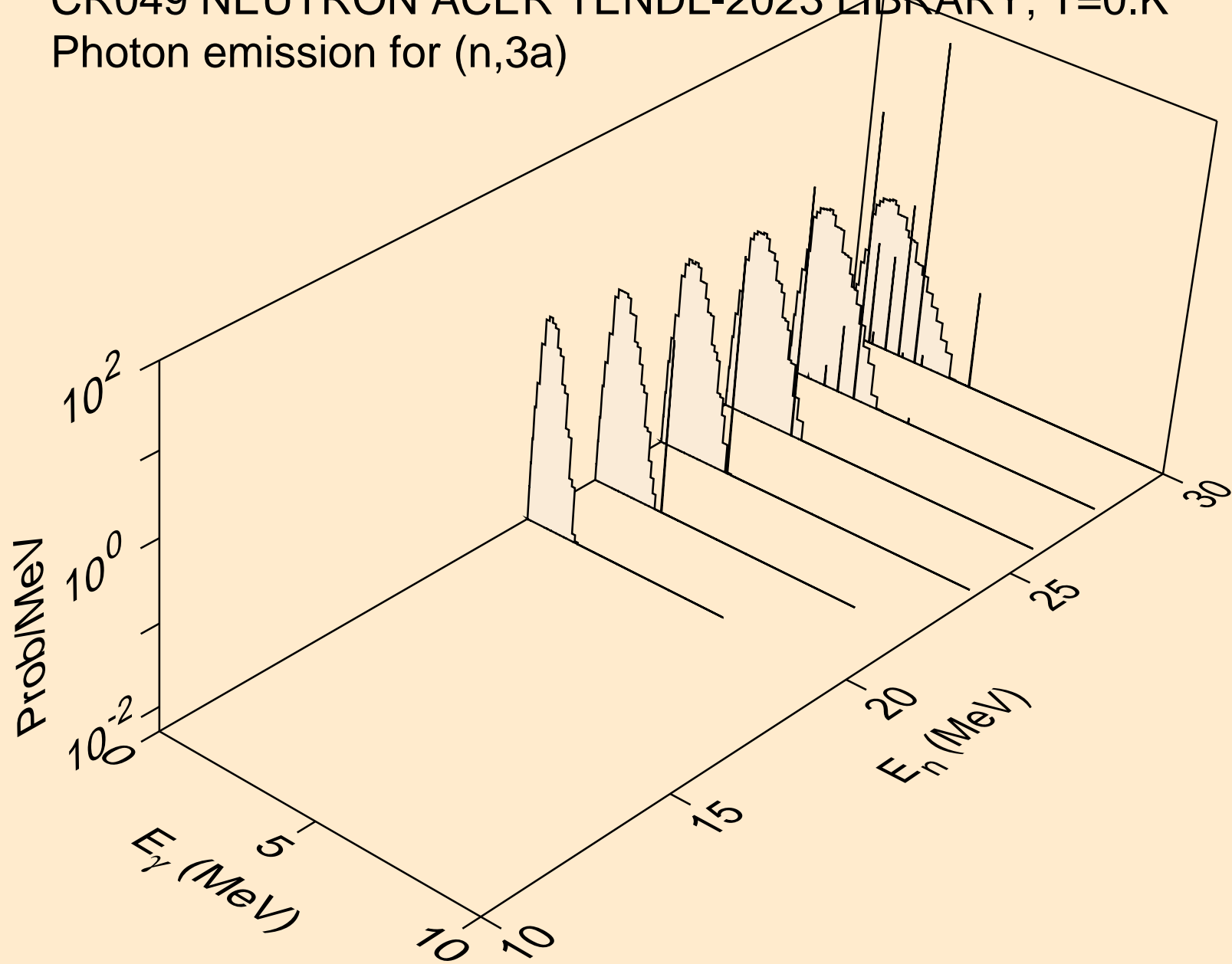
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



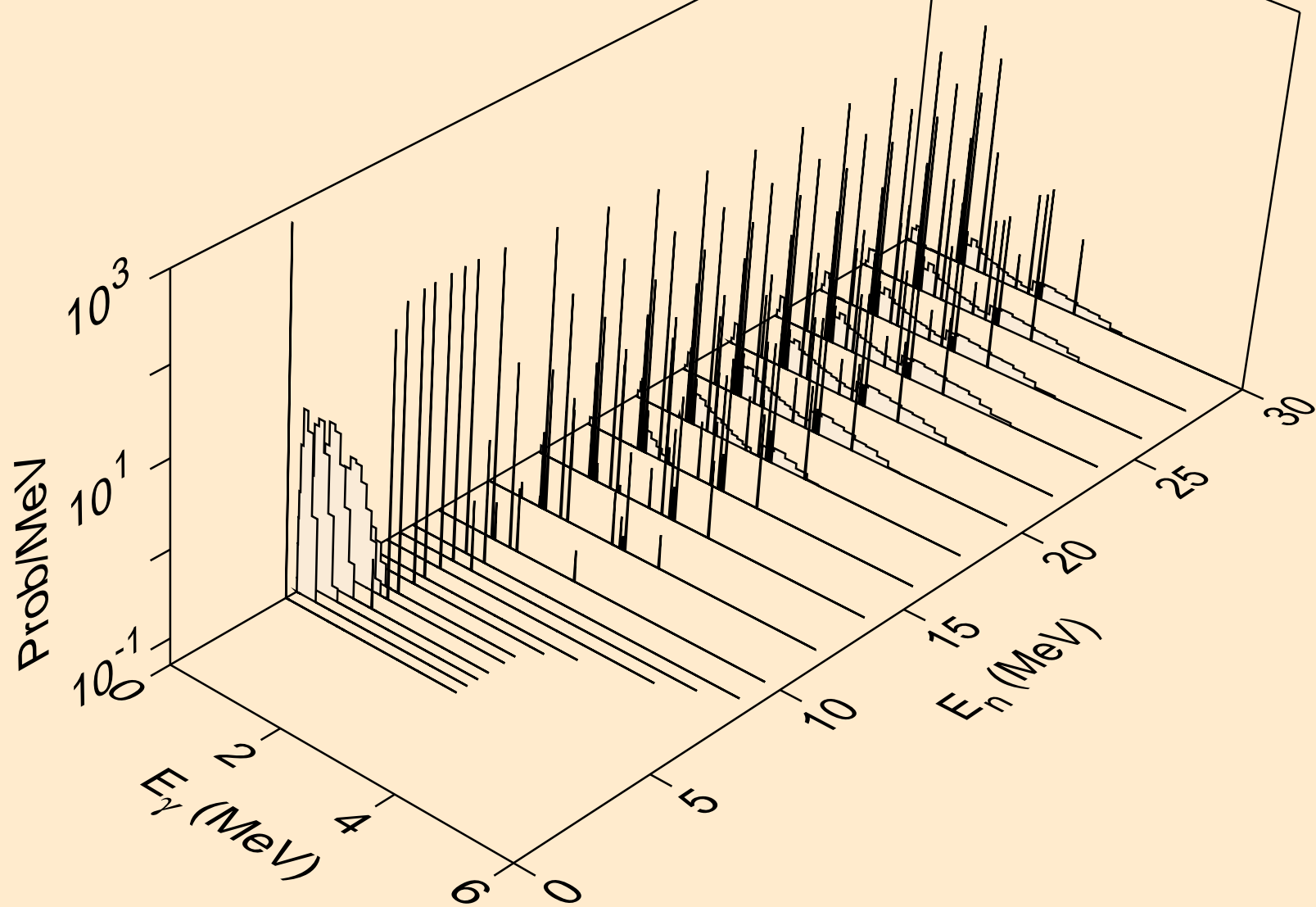
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



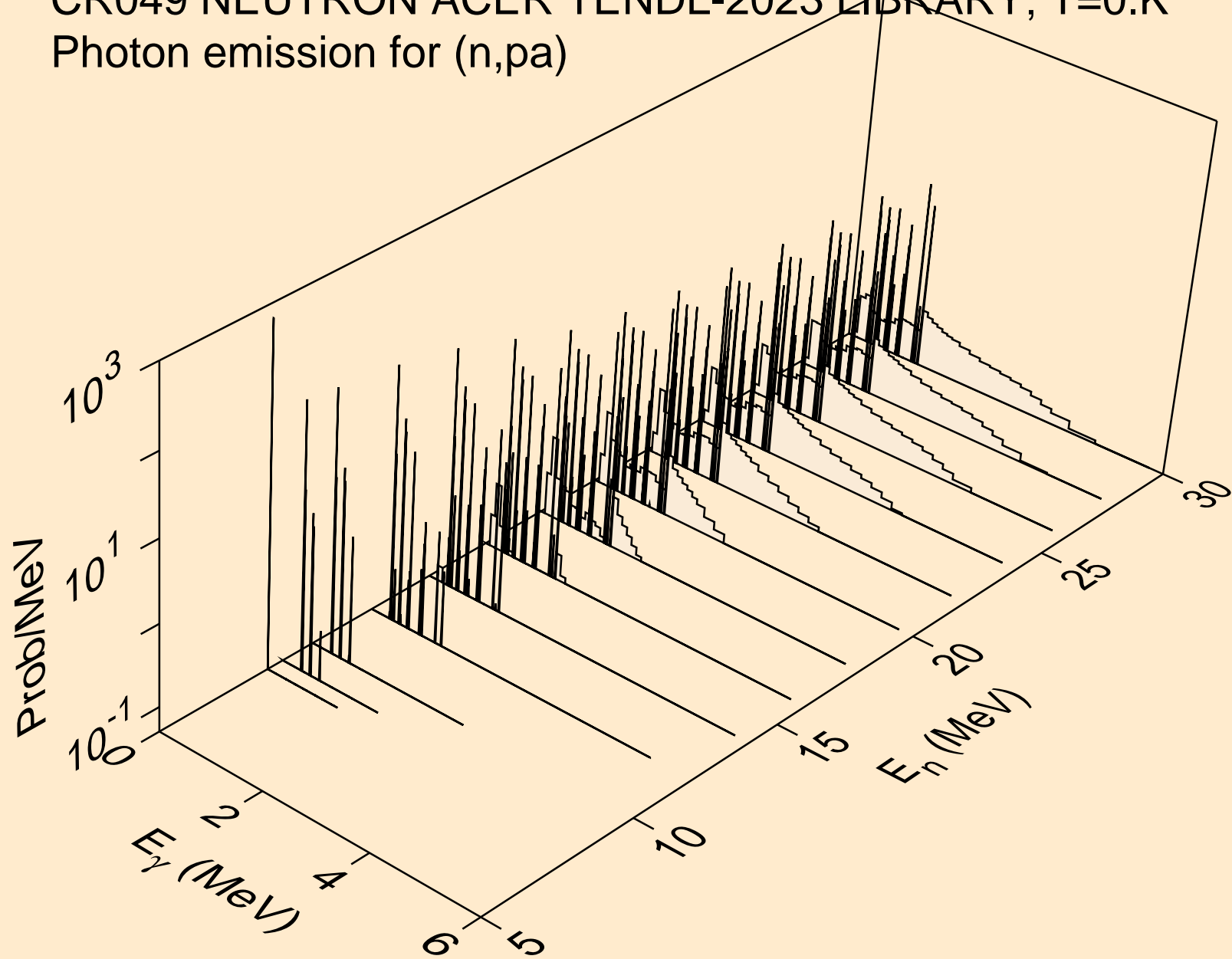
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)



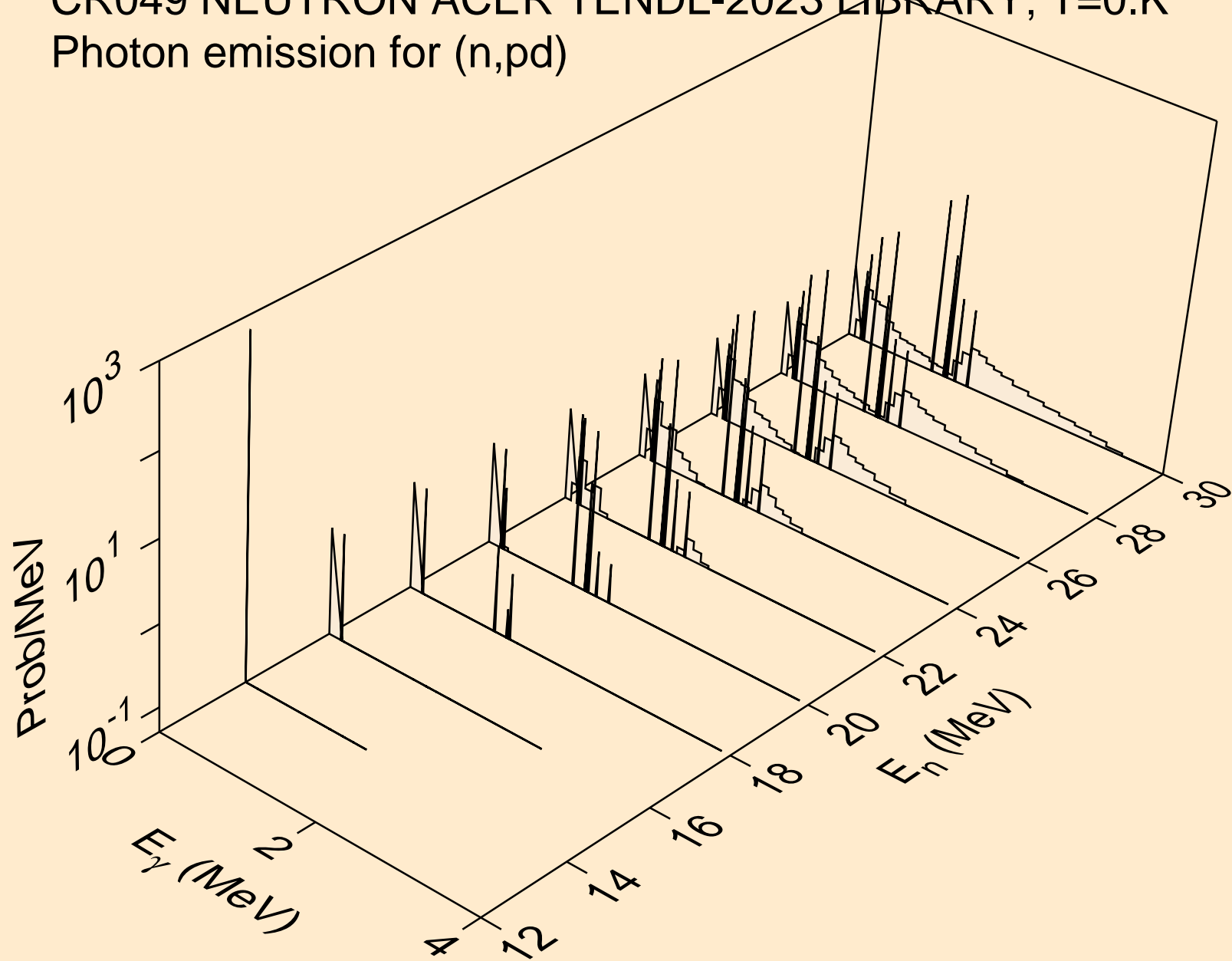
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Photon emission for (n,2p)



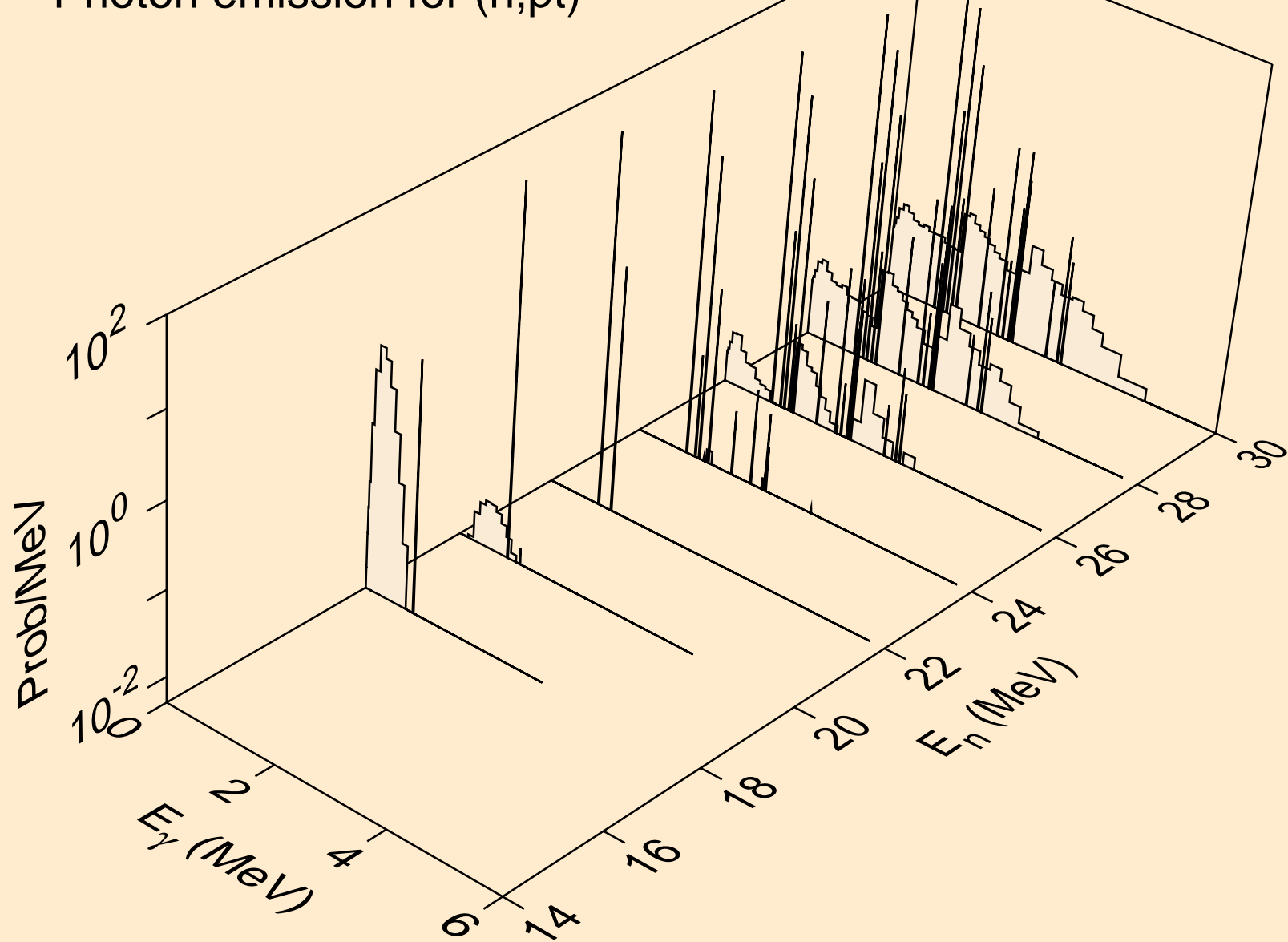
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

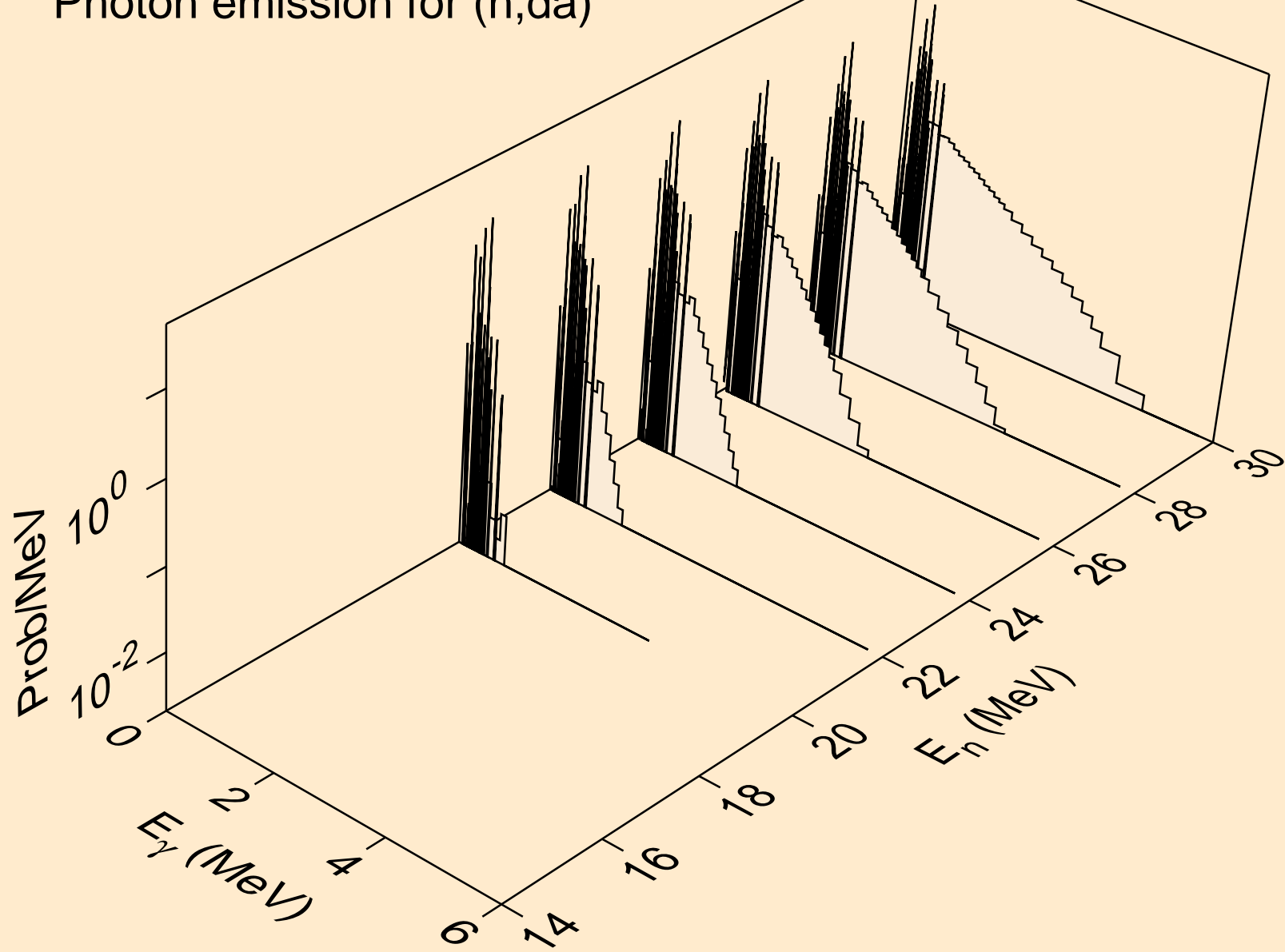


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)

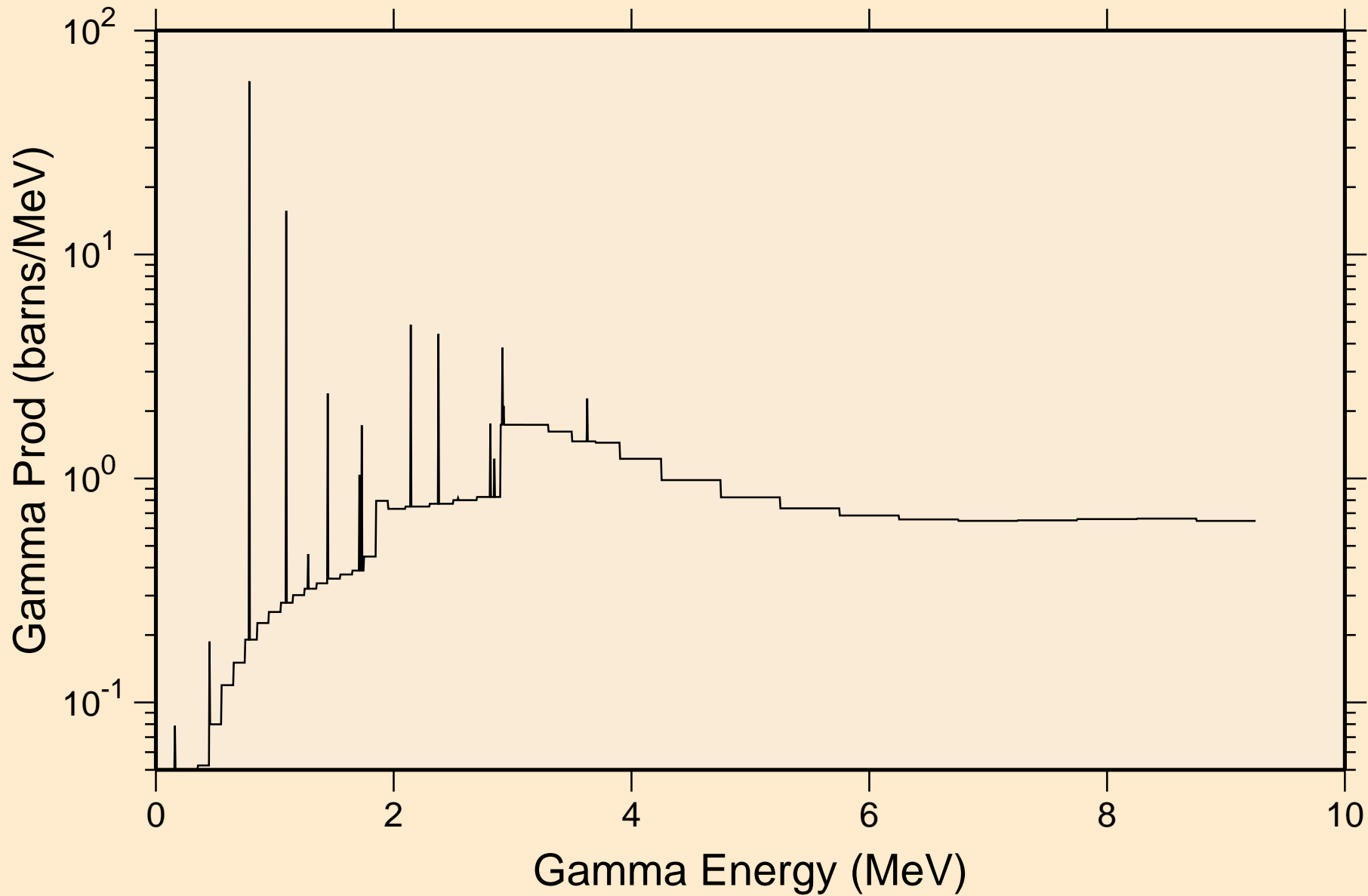




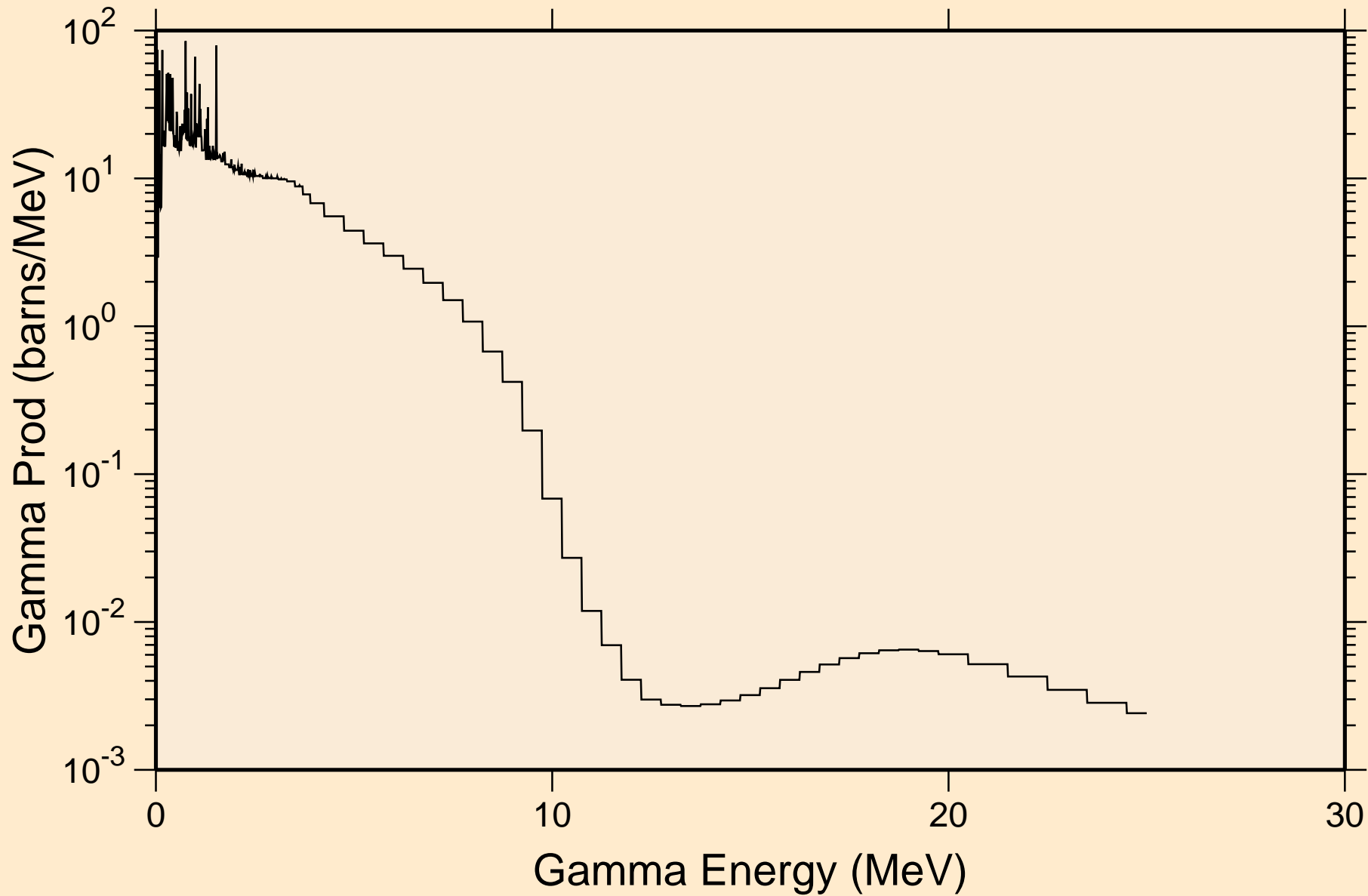
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

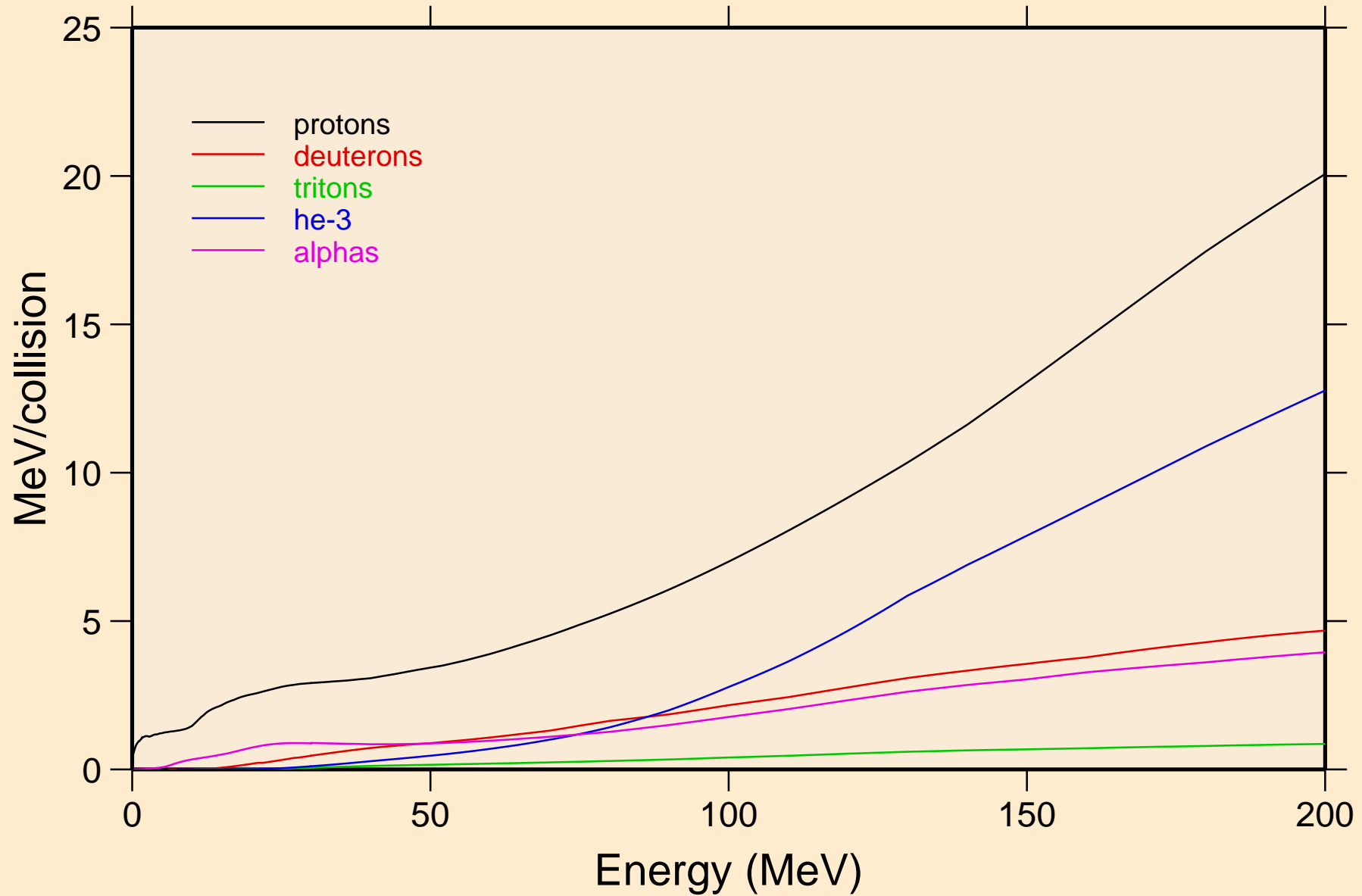


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



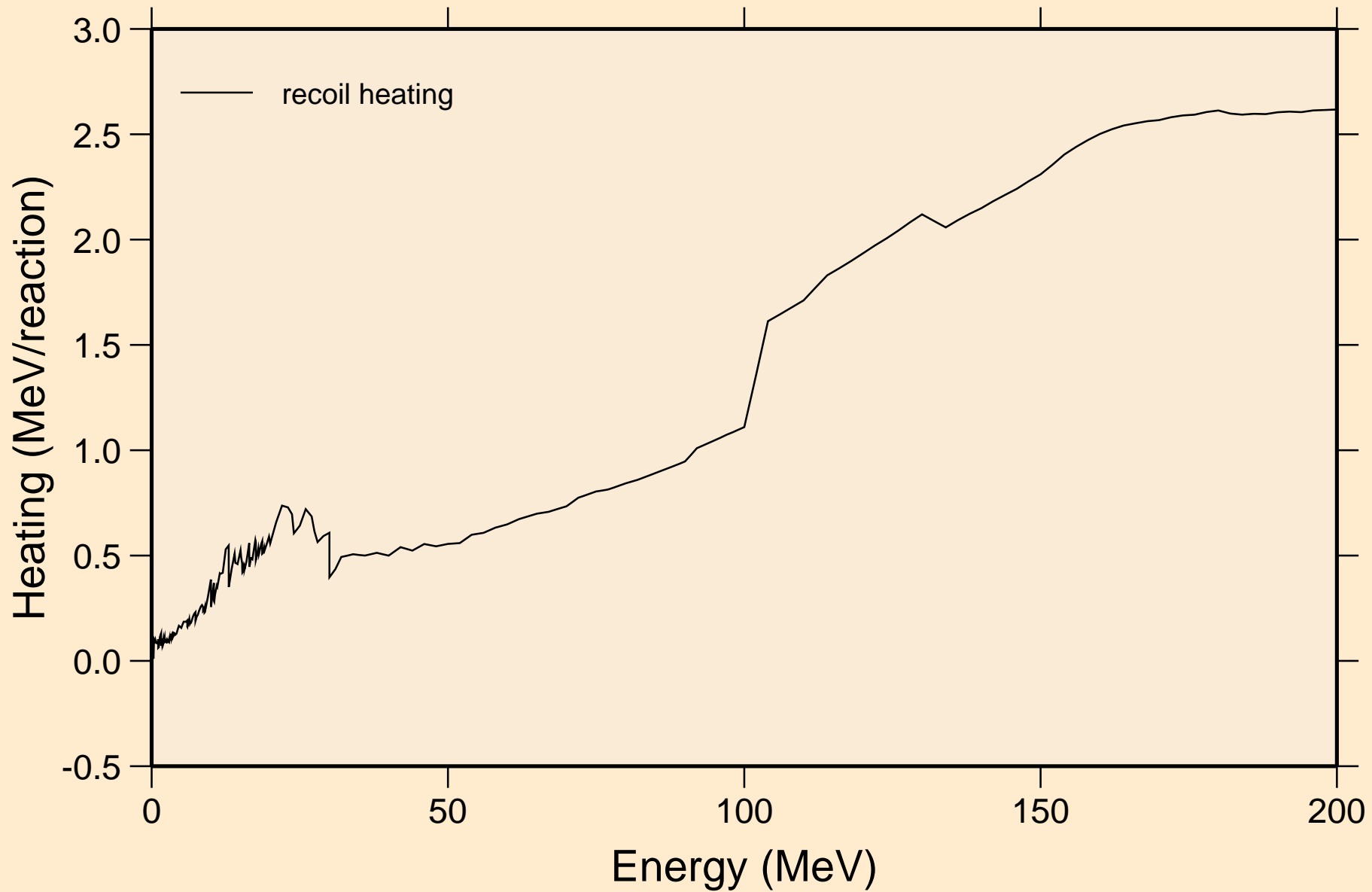
# CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions



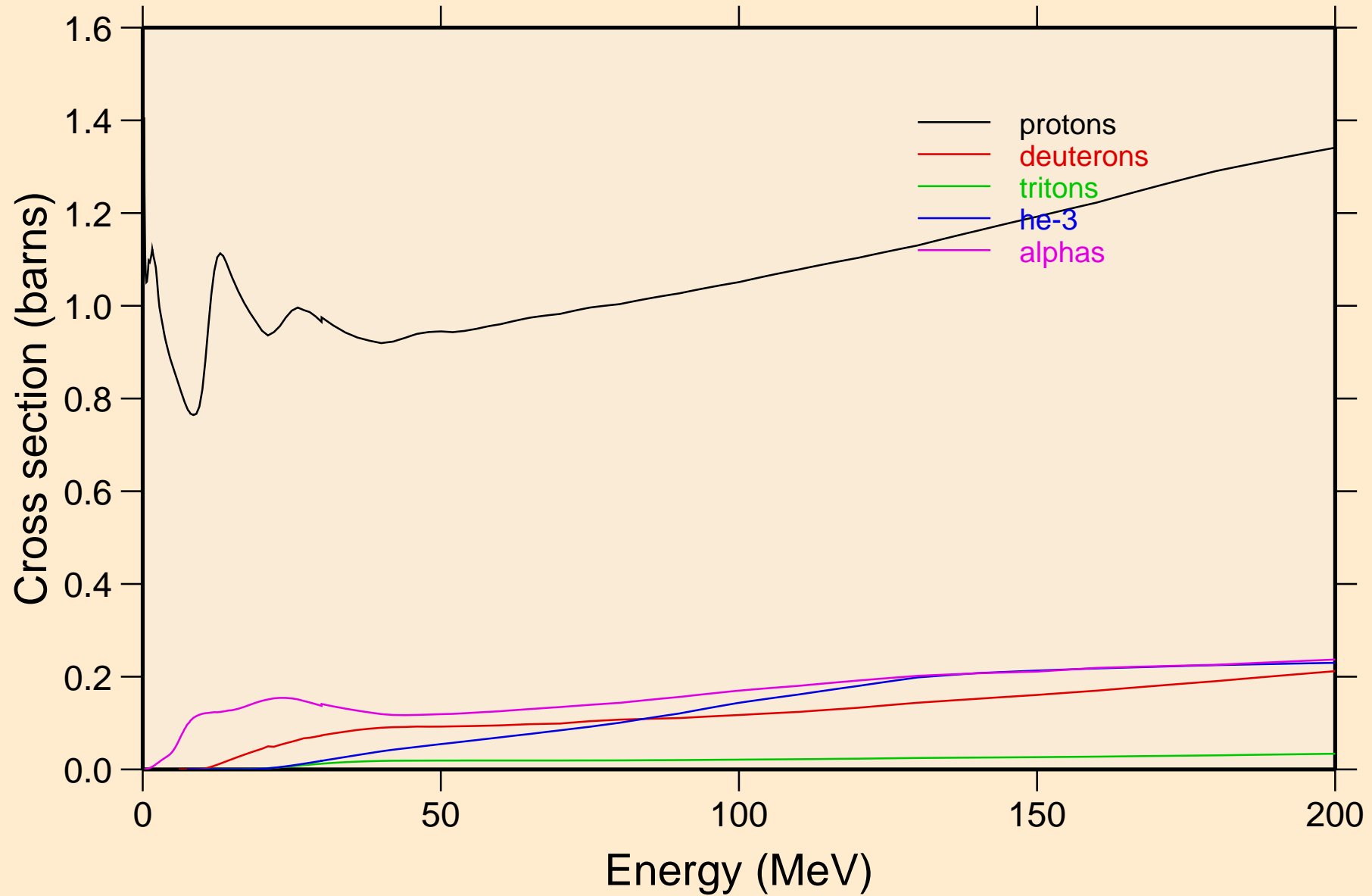
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## Recoil Heating

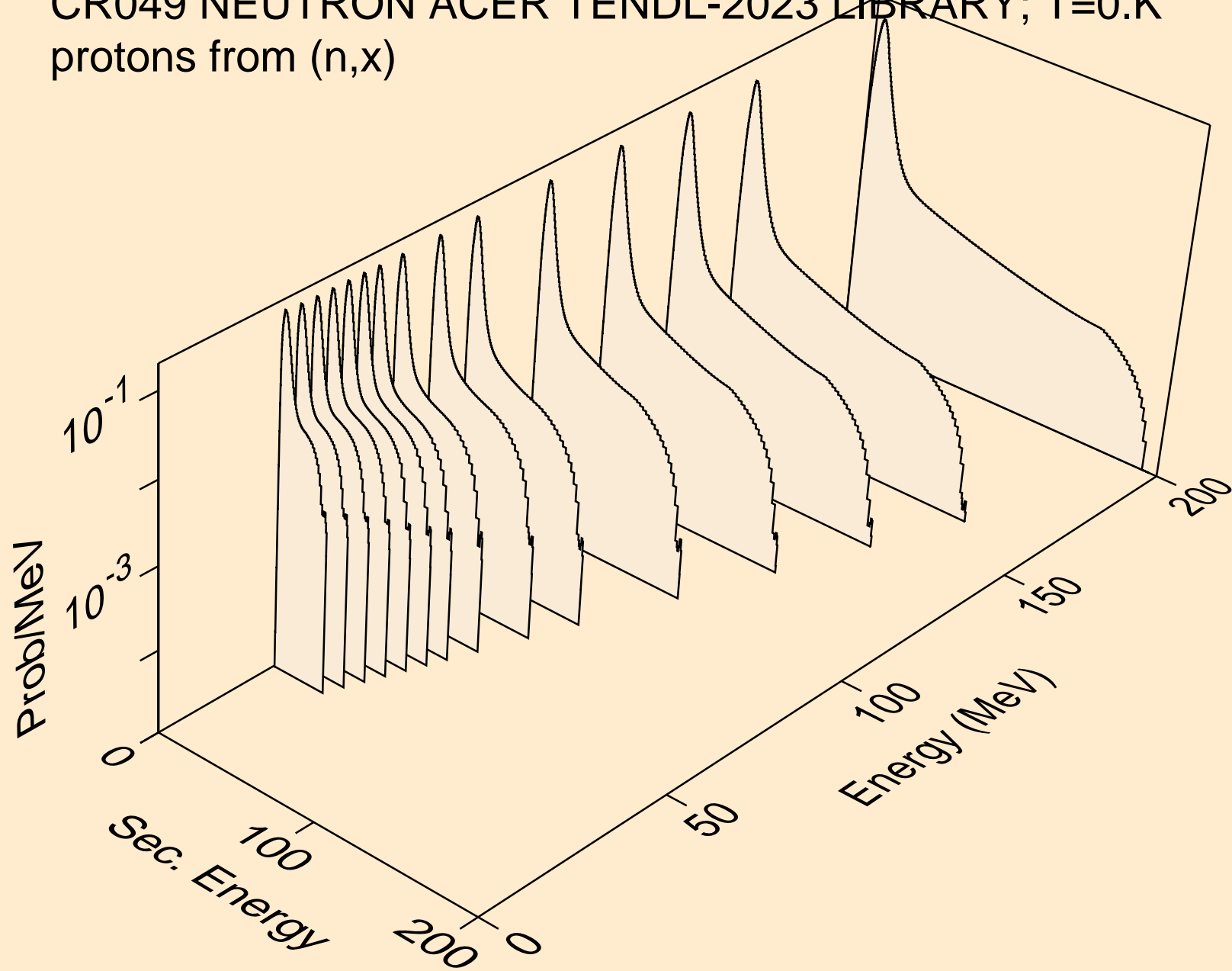


# CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

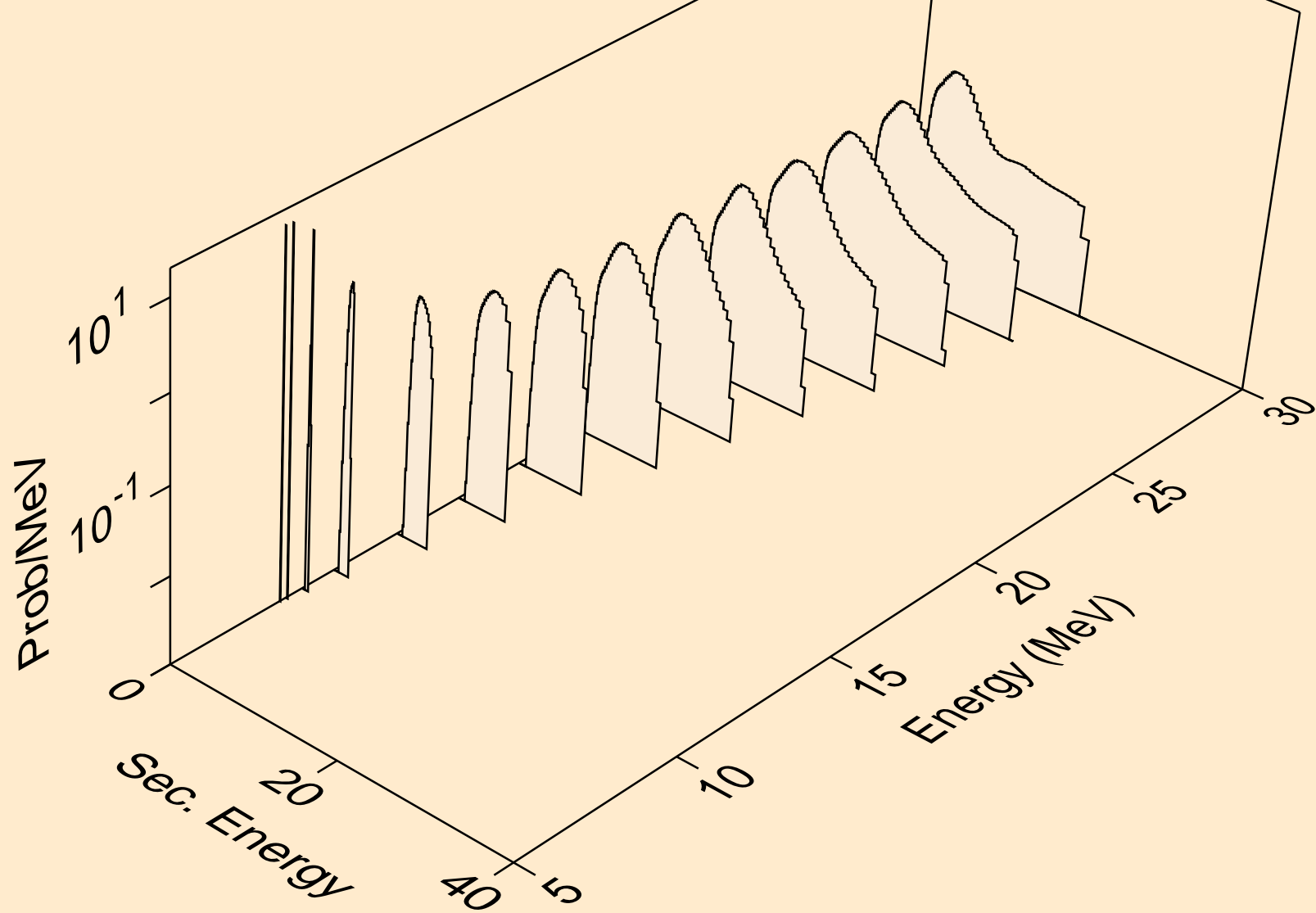
## Particle production cross sections



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)

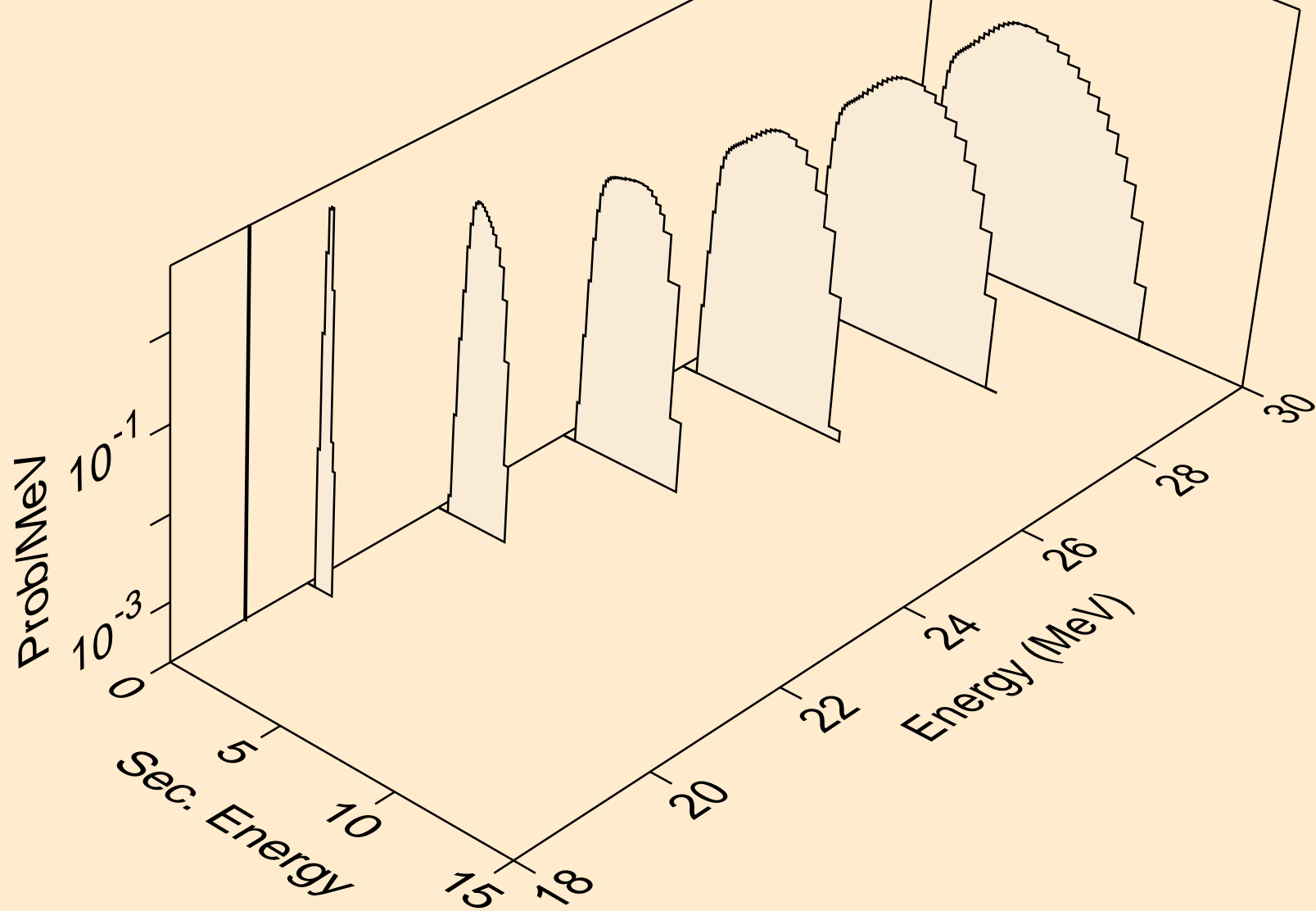


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p

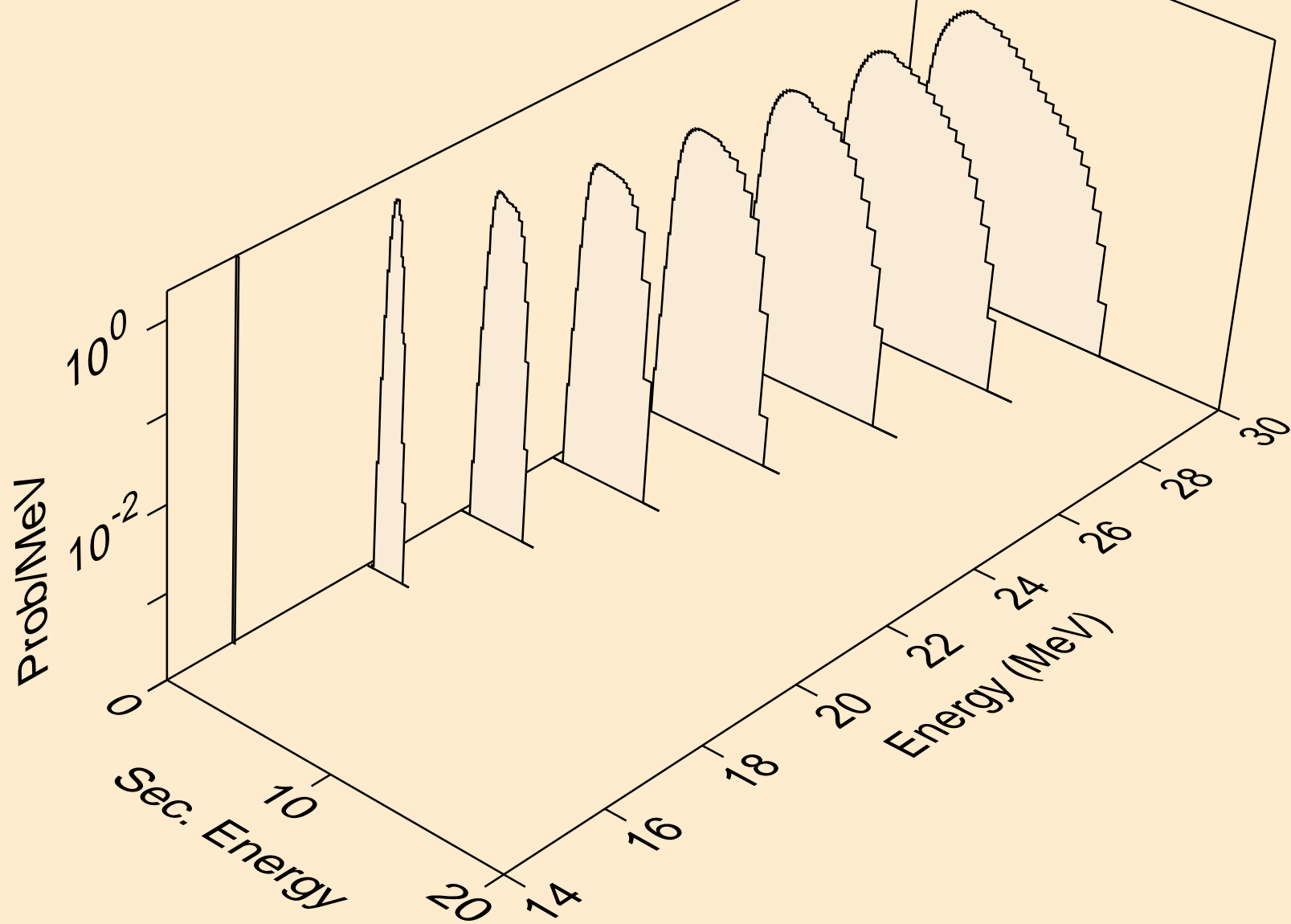




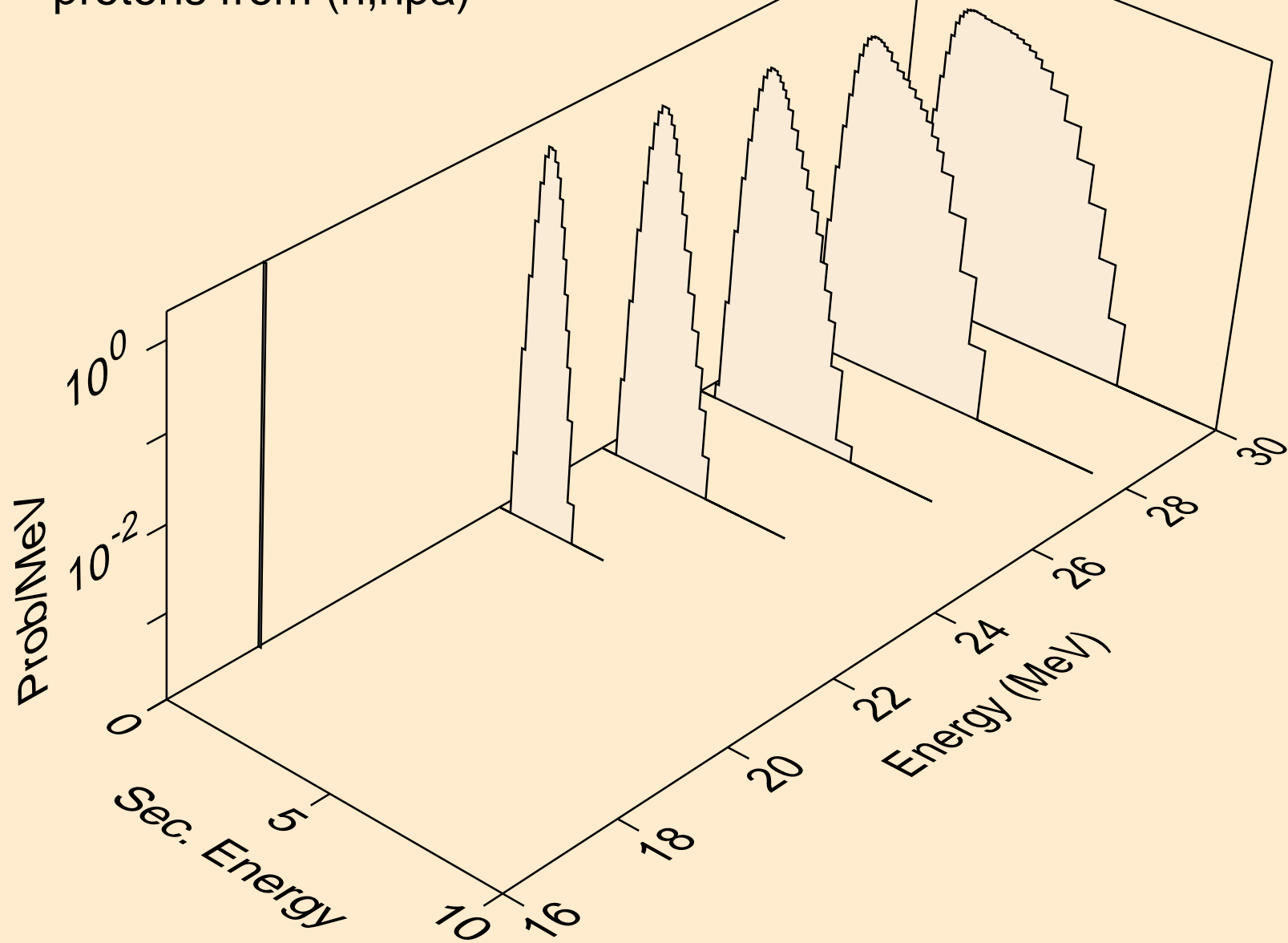
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



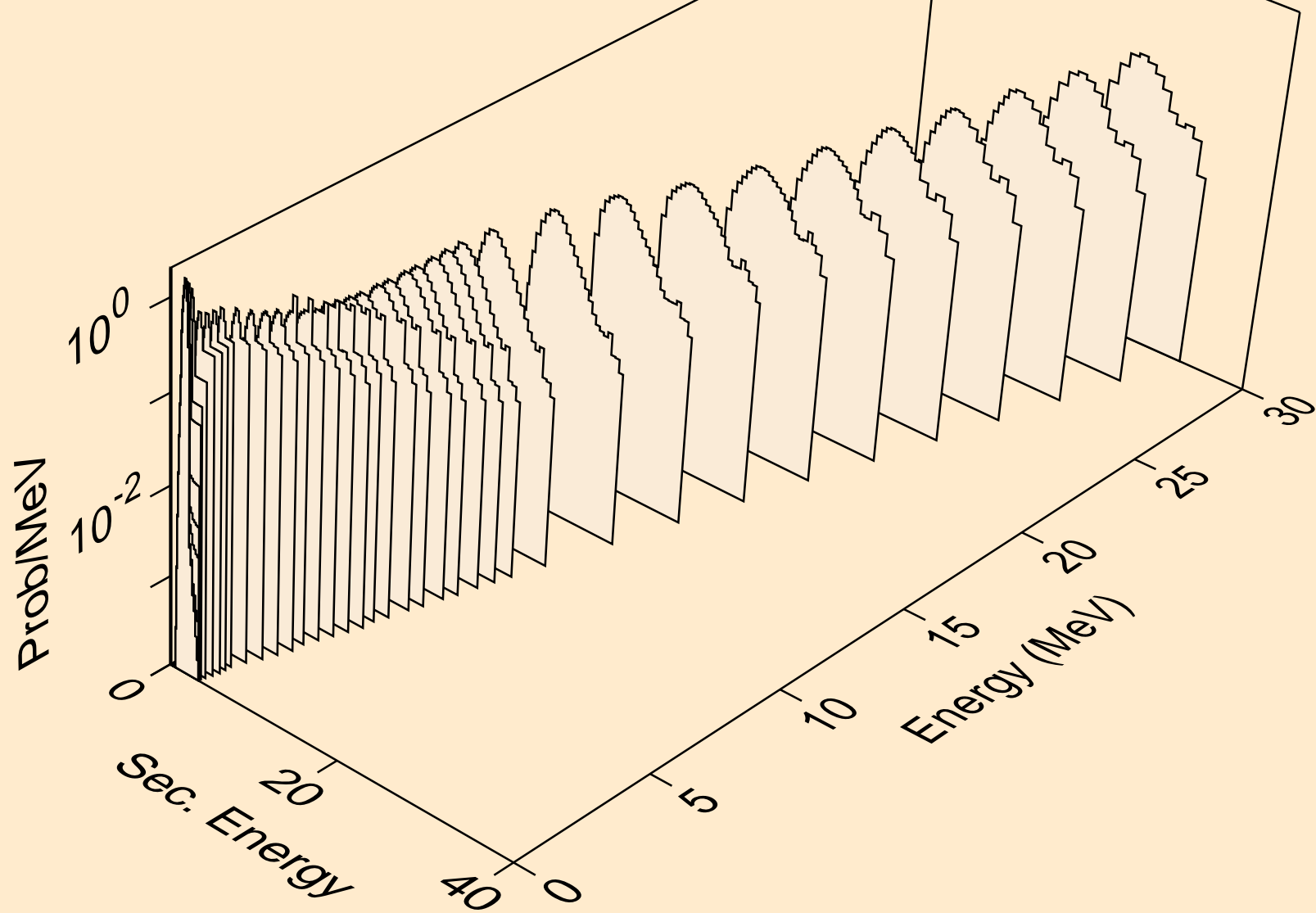
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n2p)



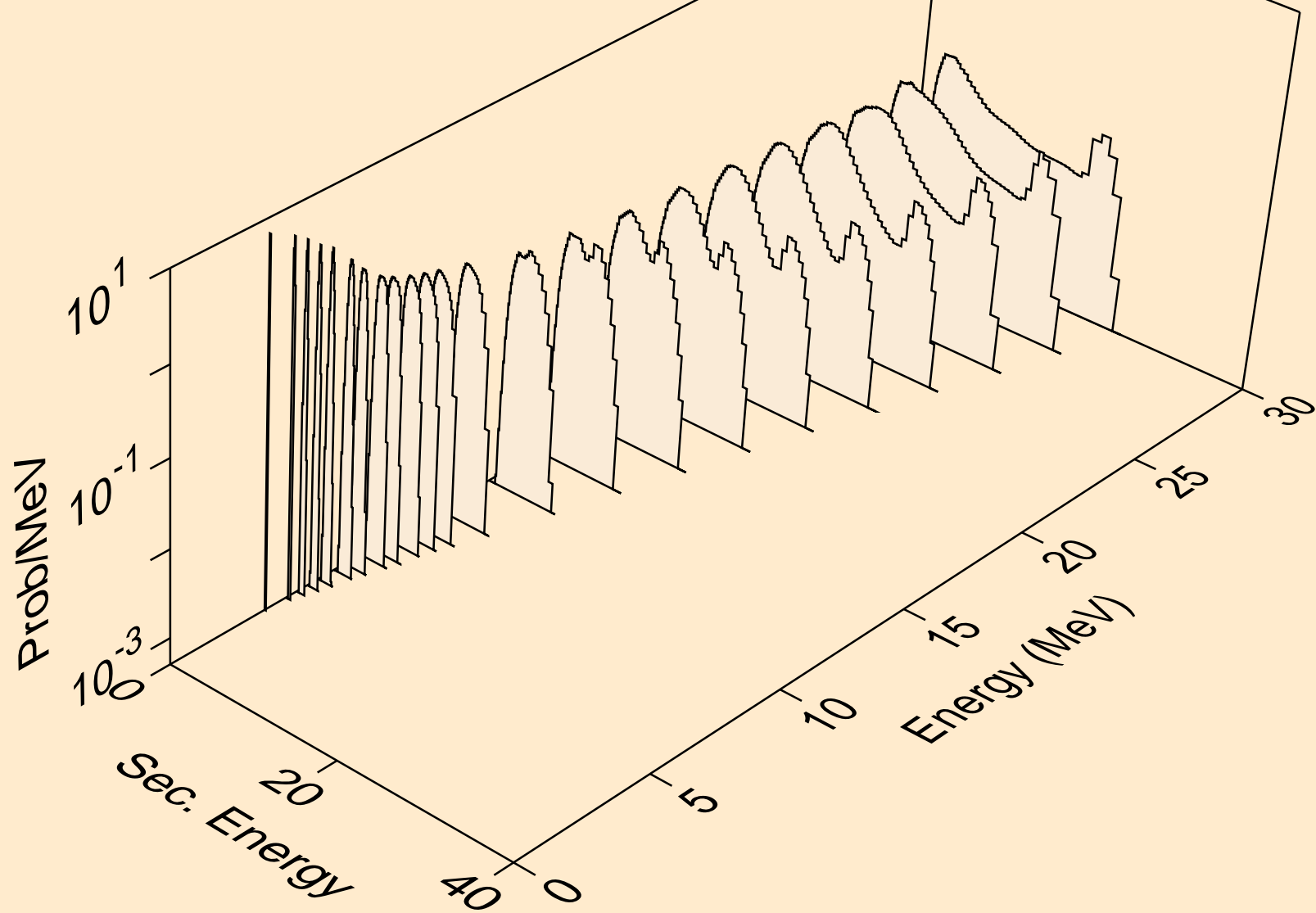
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,npa)



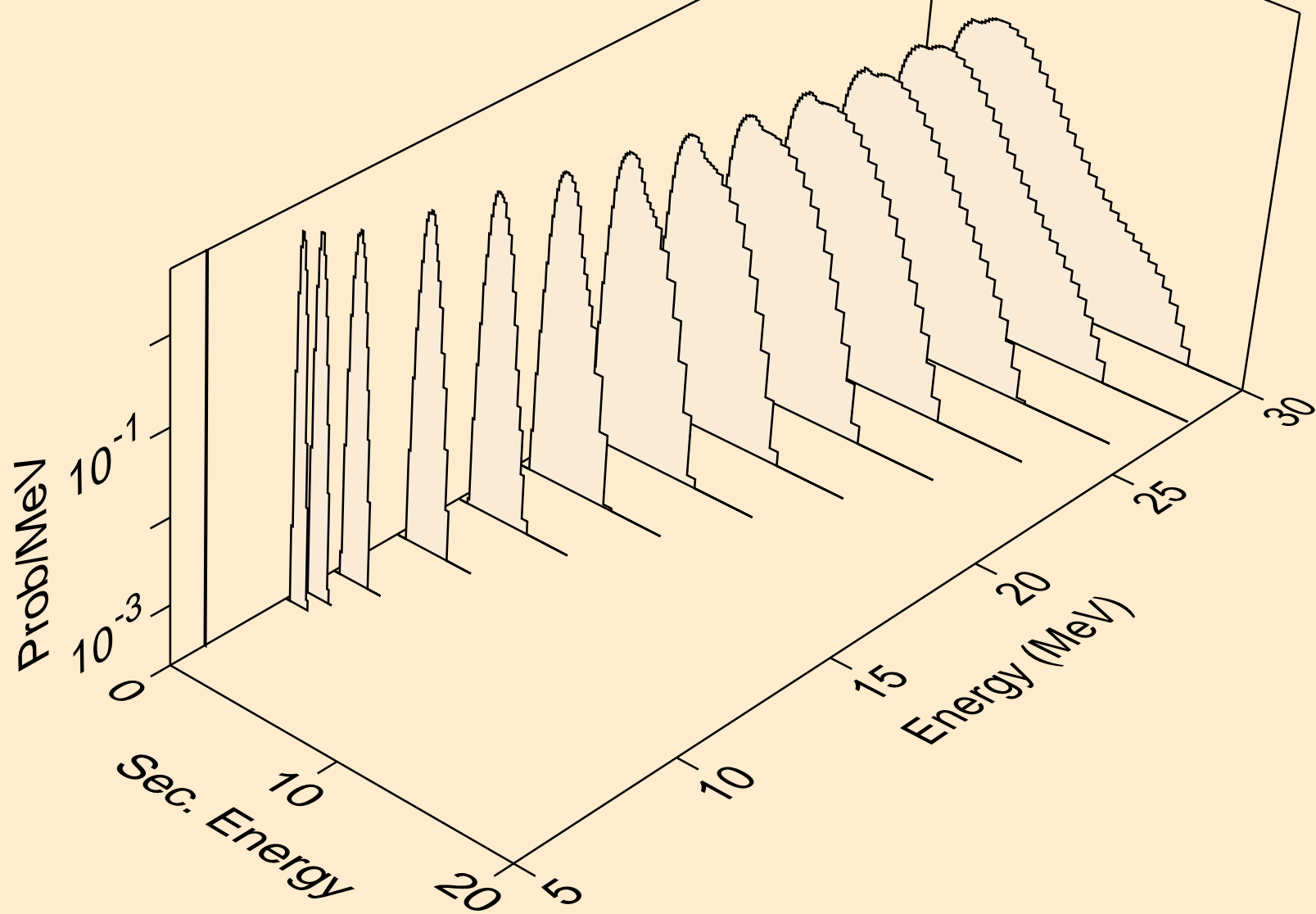
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protons from (n,p)



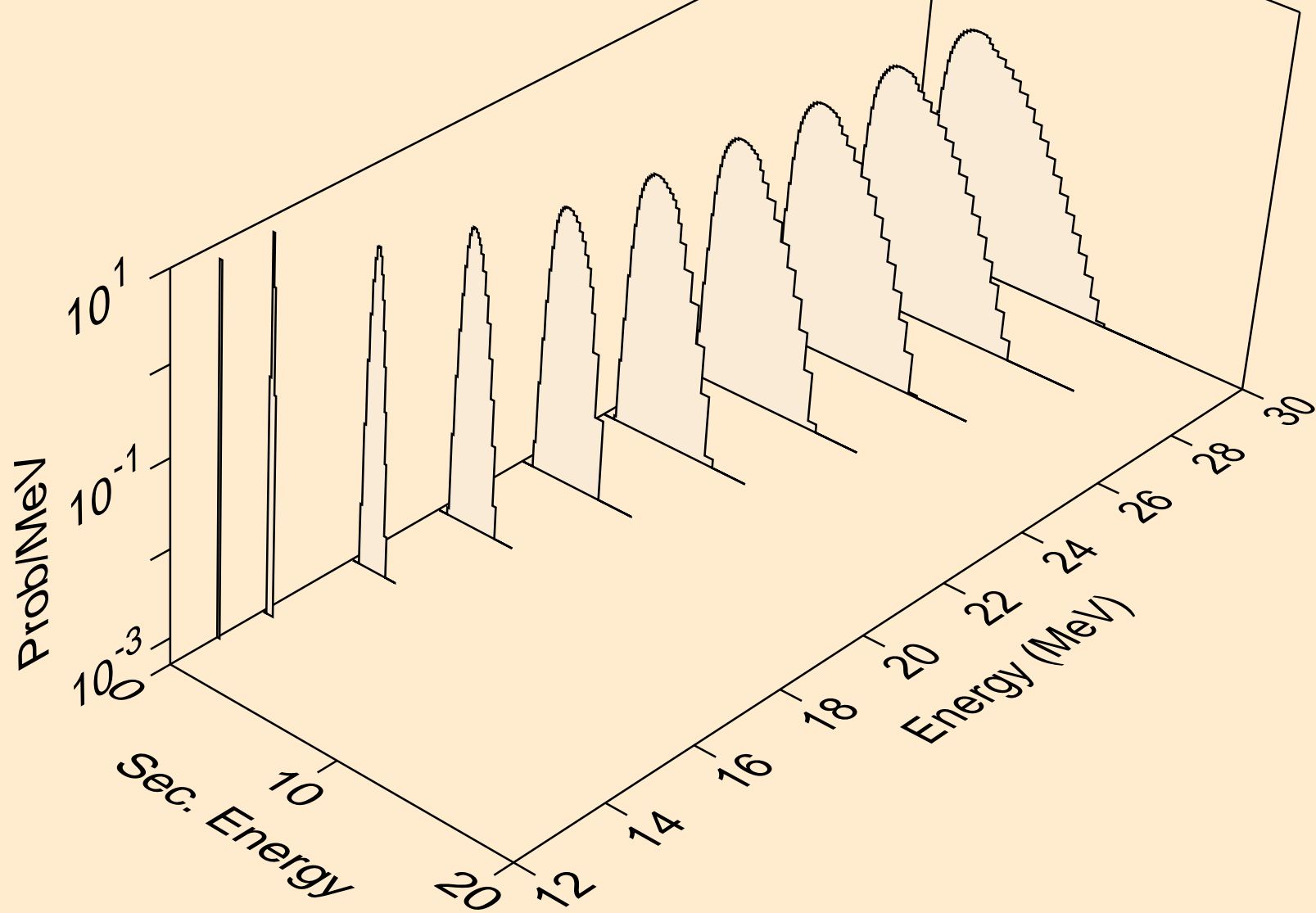
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protons from (n,2p)



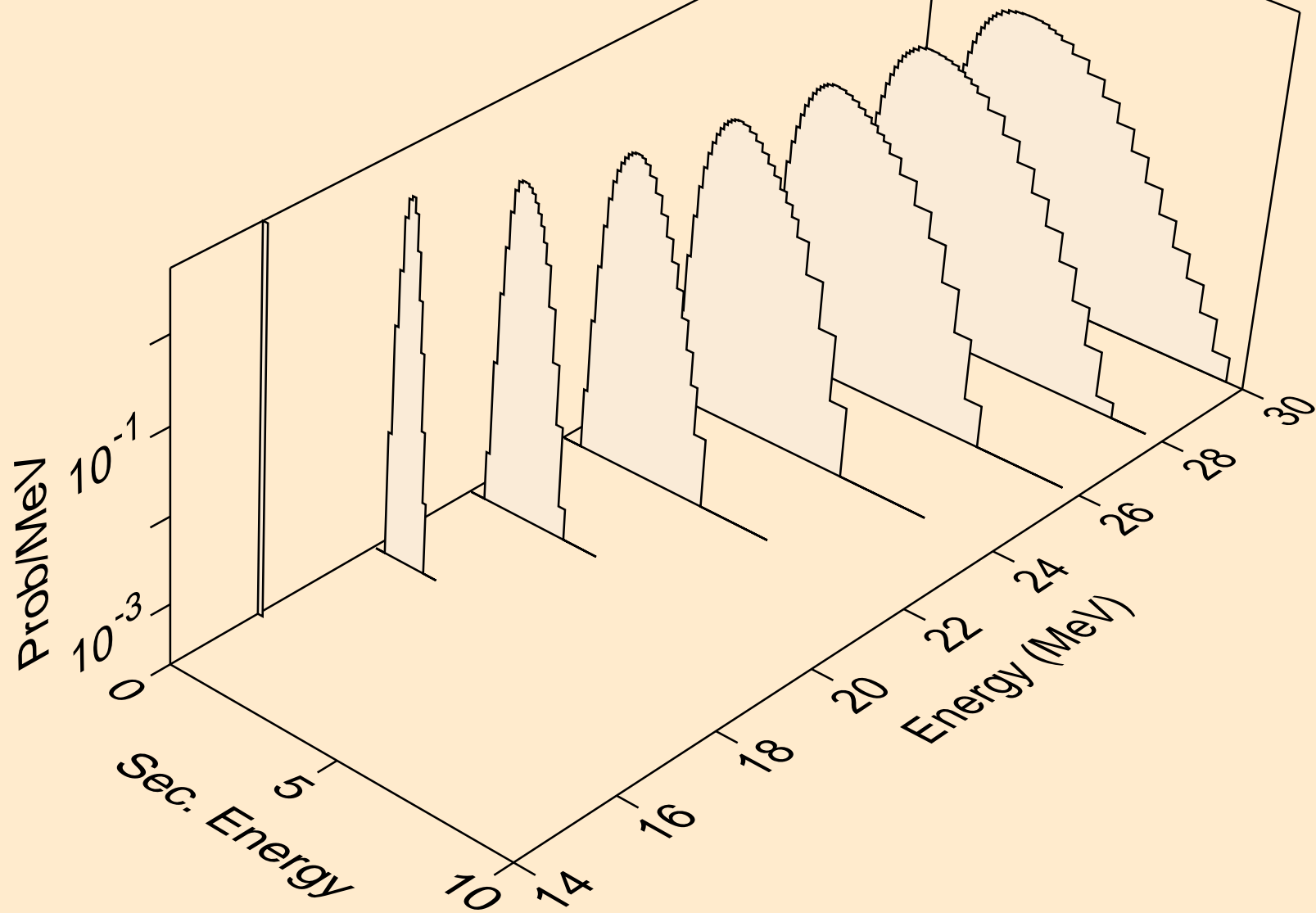
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pd)

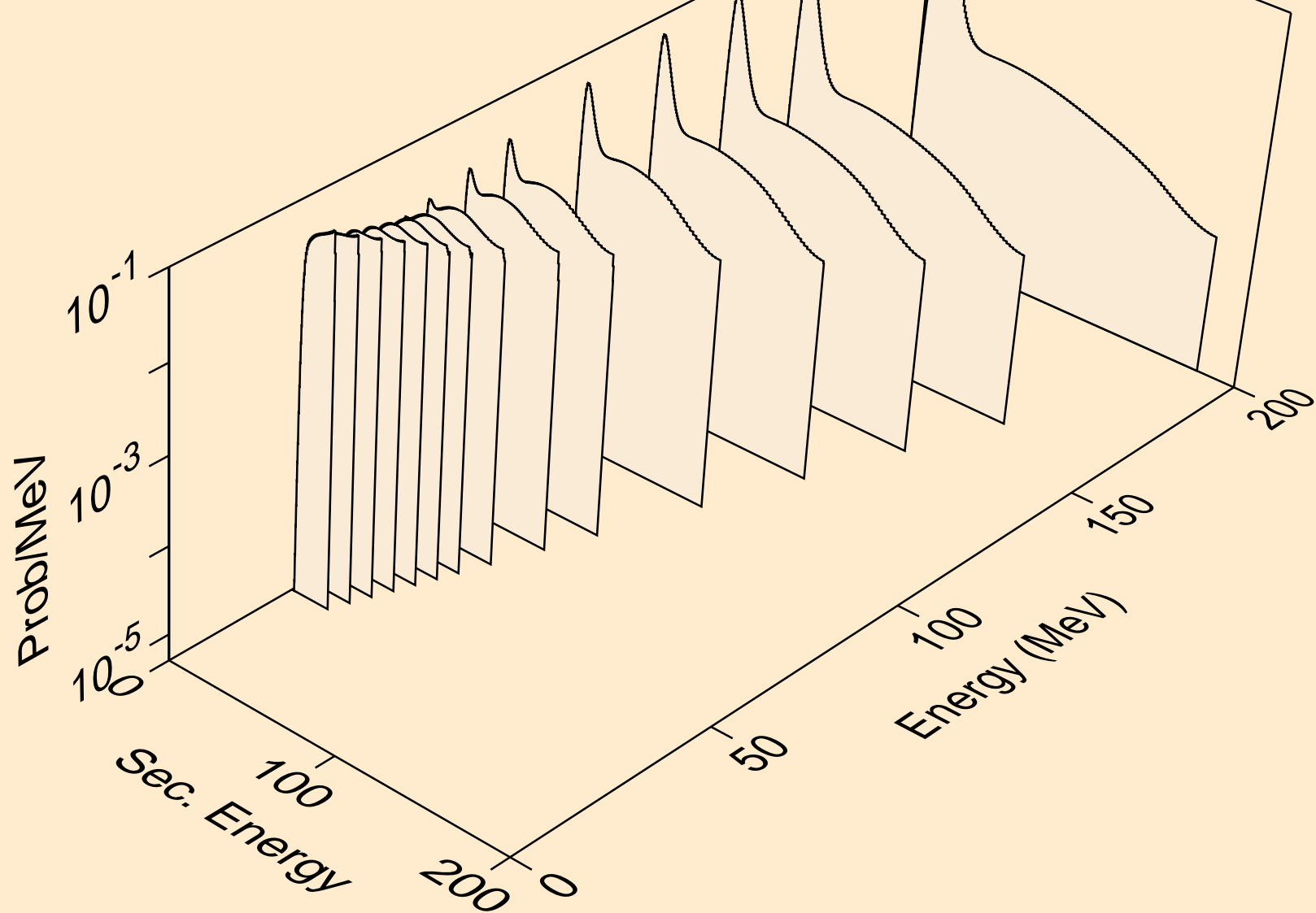


CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pt)

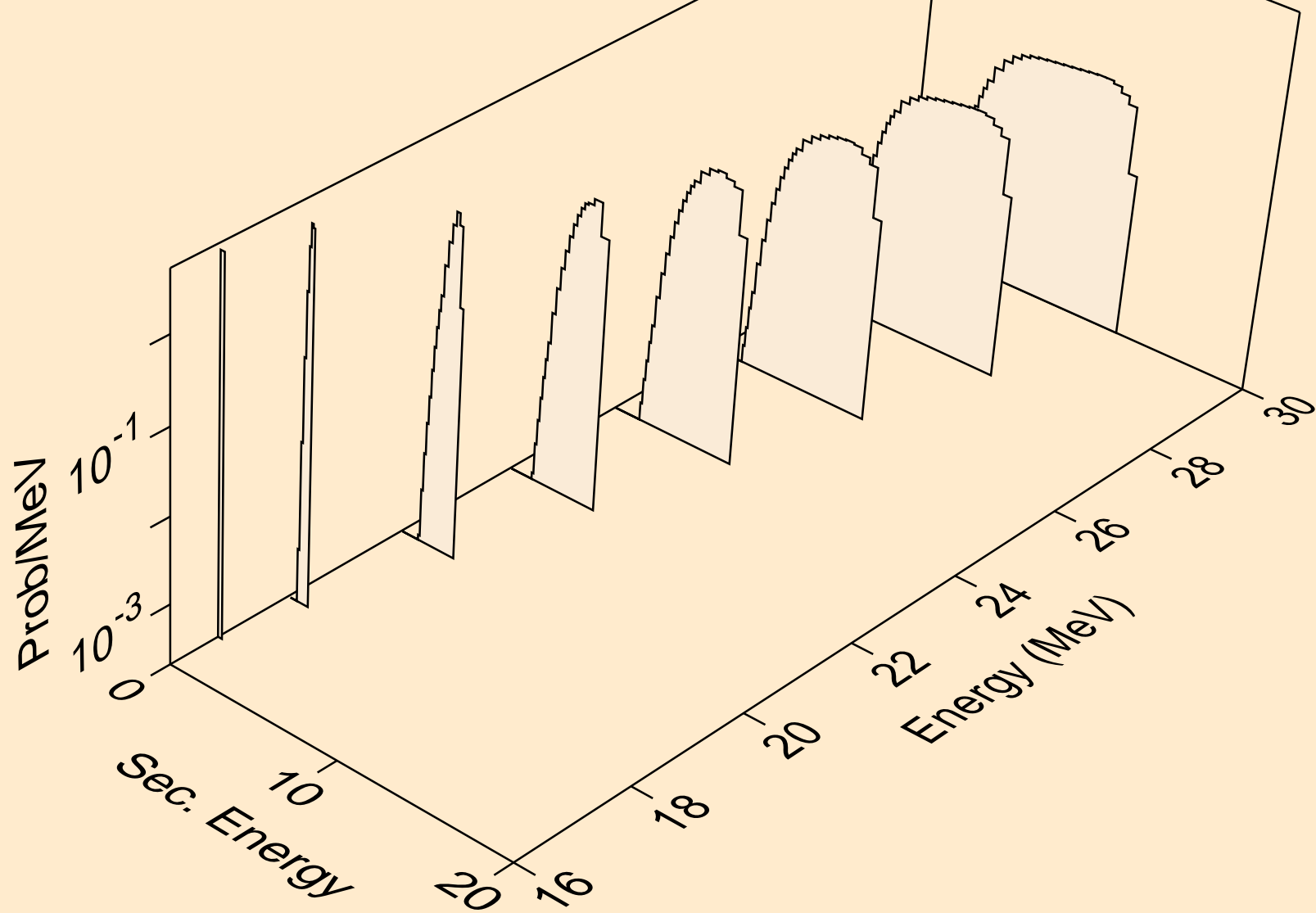




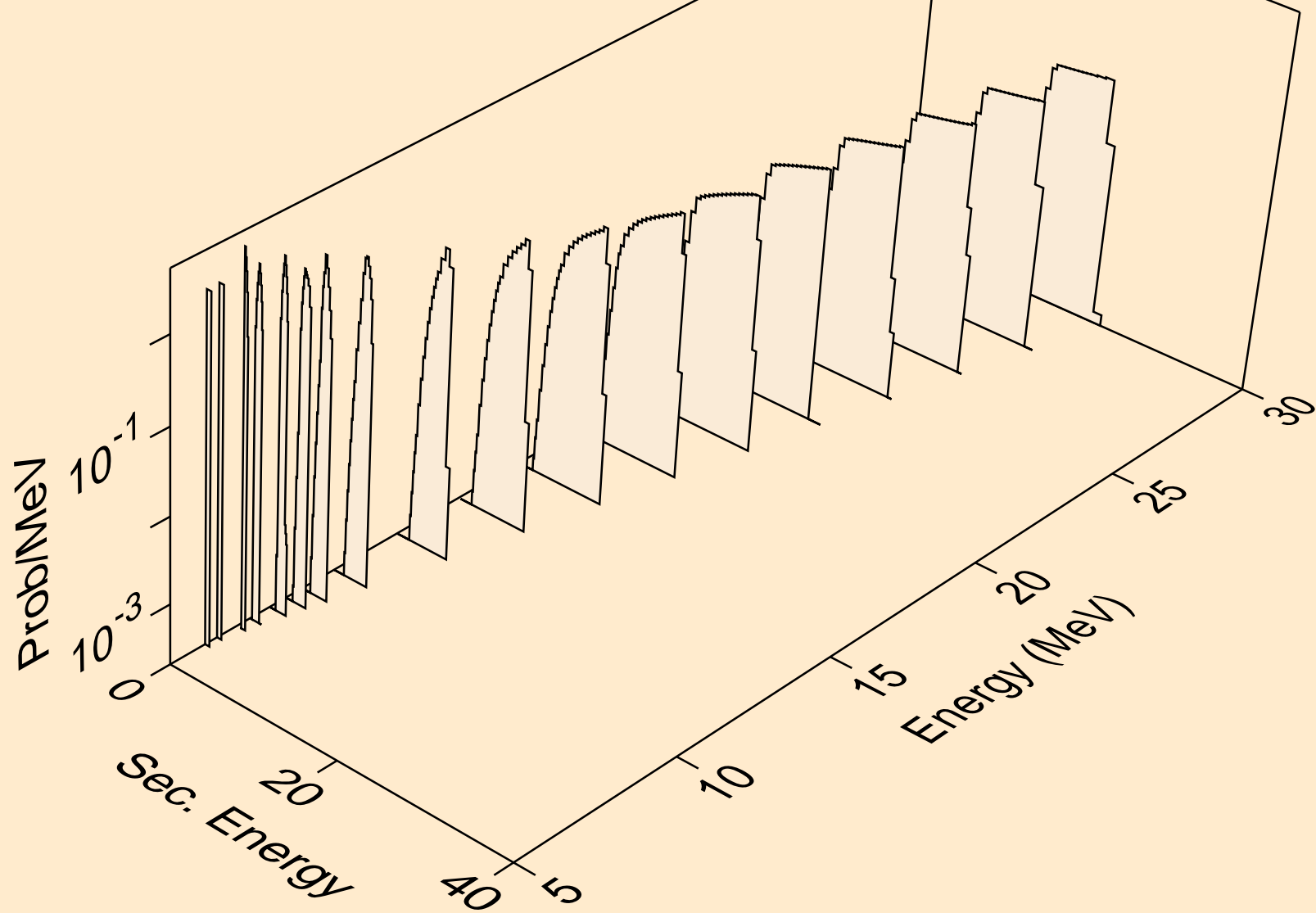
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deuterons from (n,x)



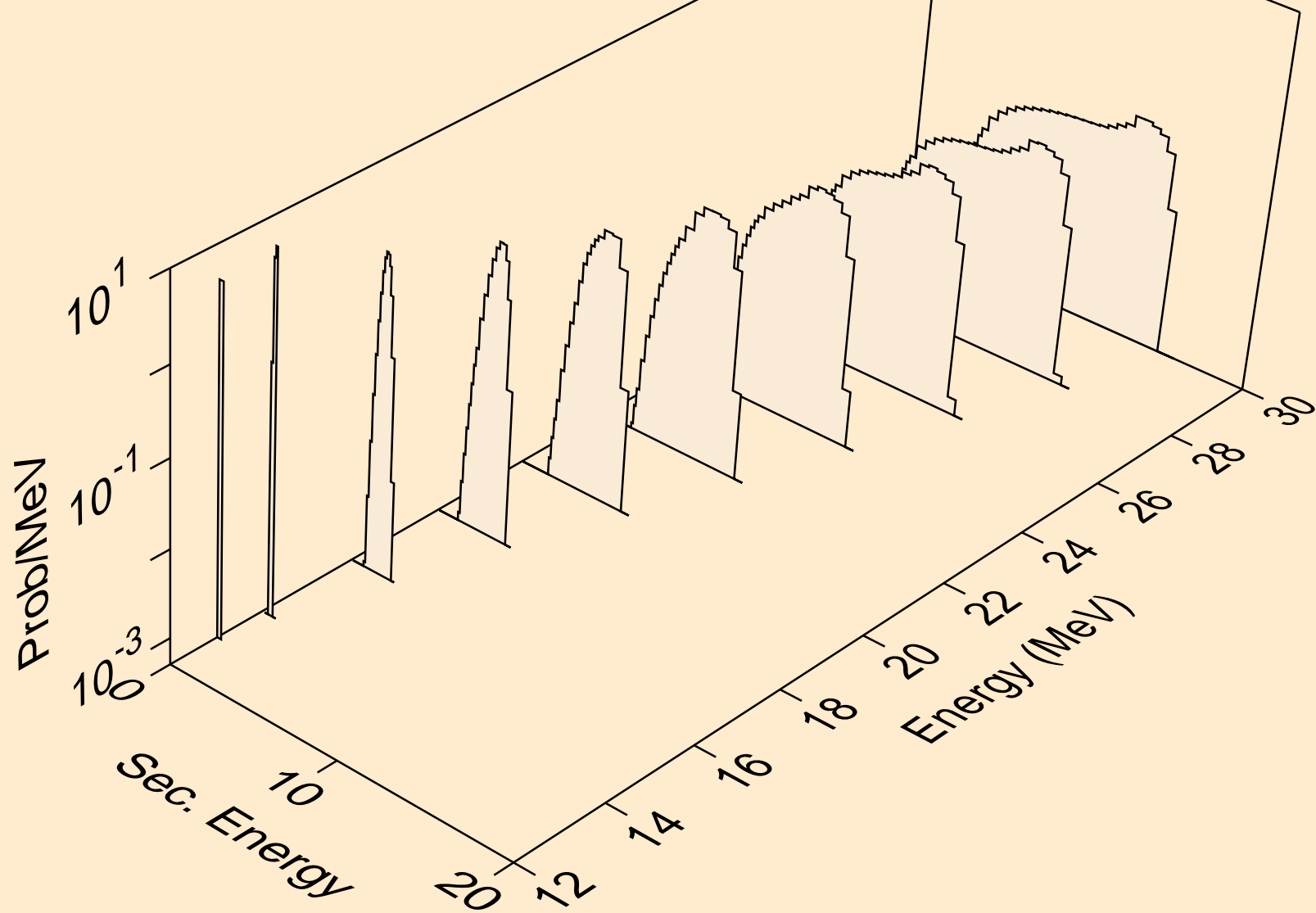
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



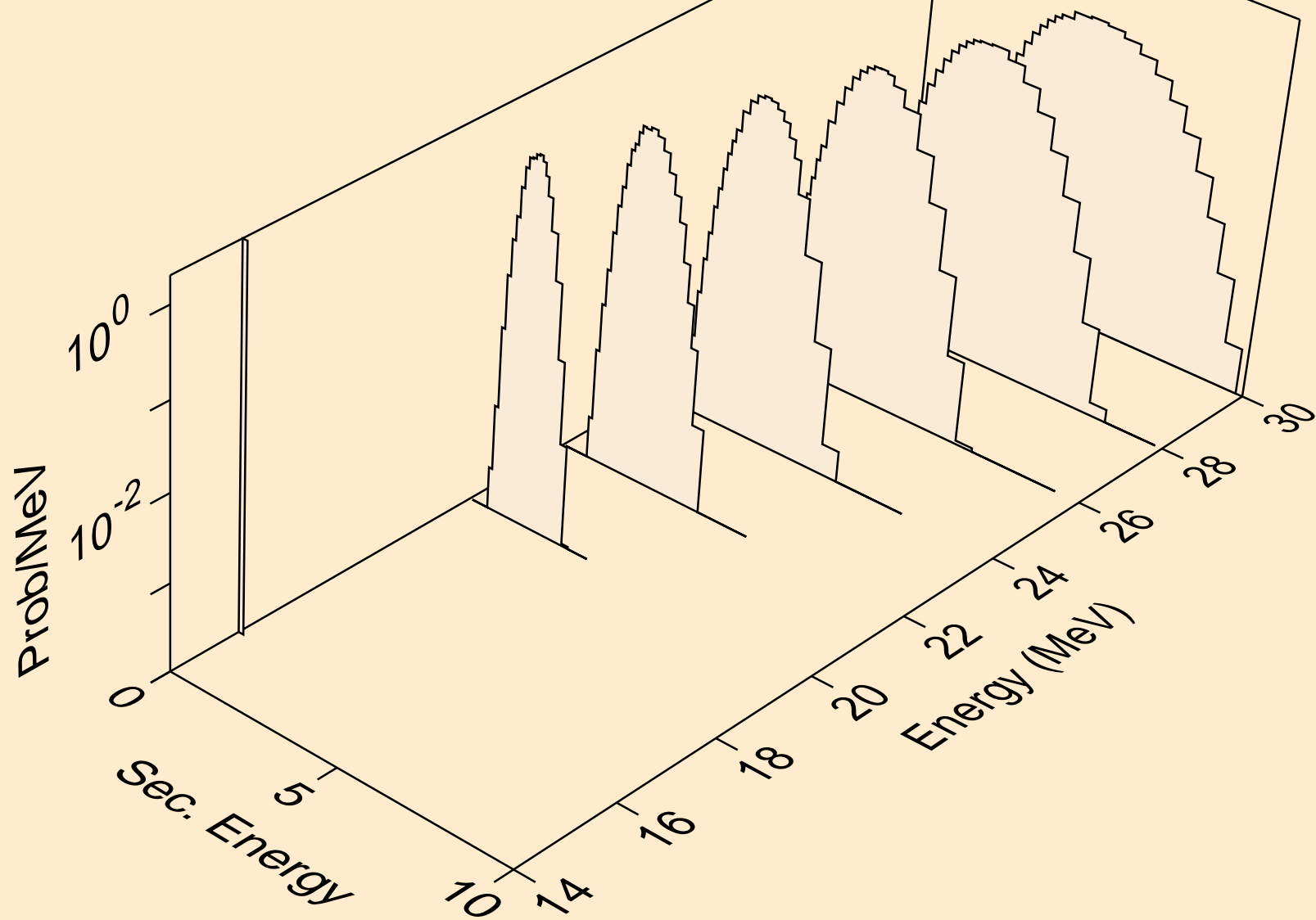
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deuterons from (n,d)



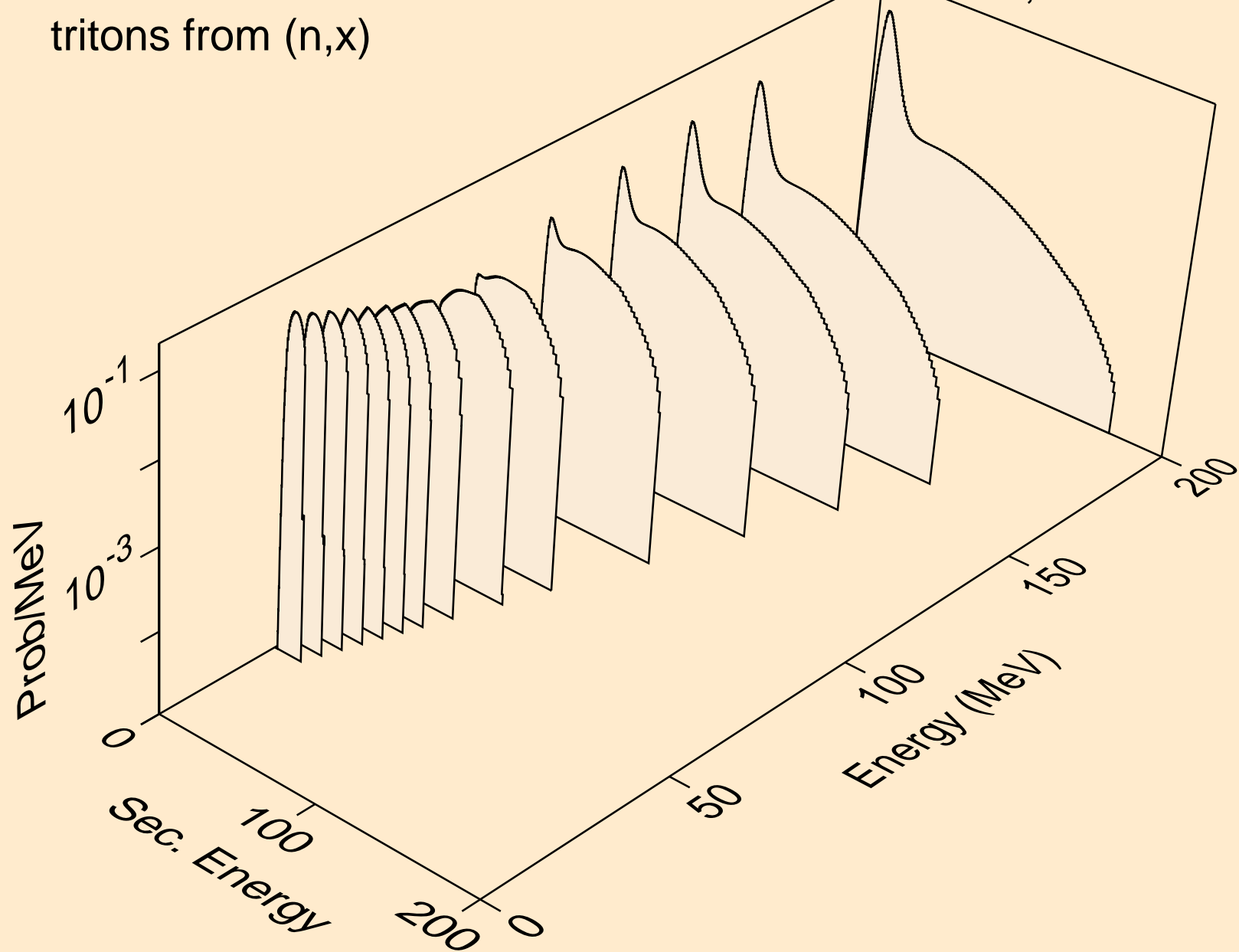
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deuterons from (n,pd)



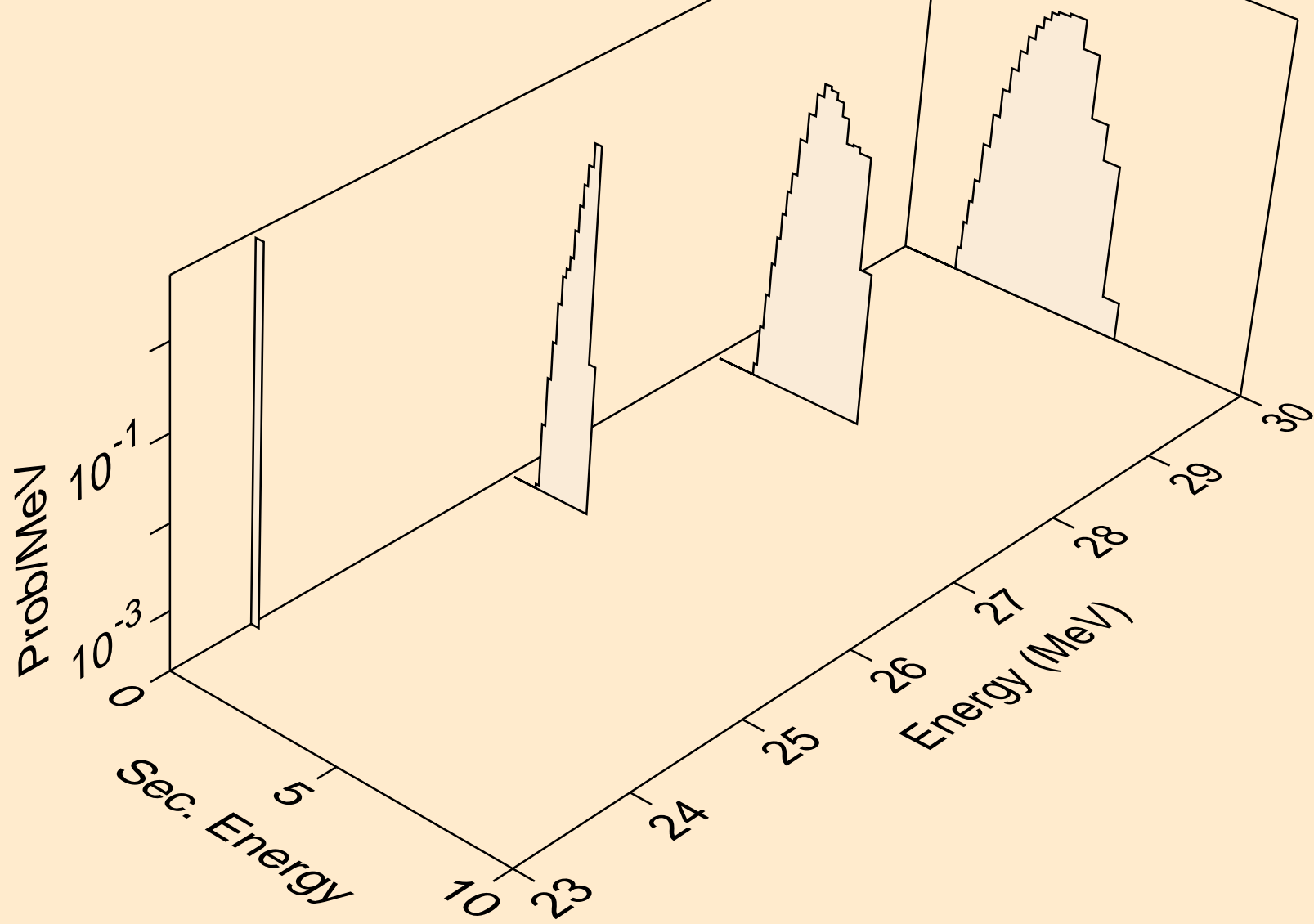
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deuterons from (n,da)



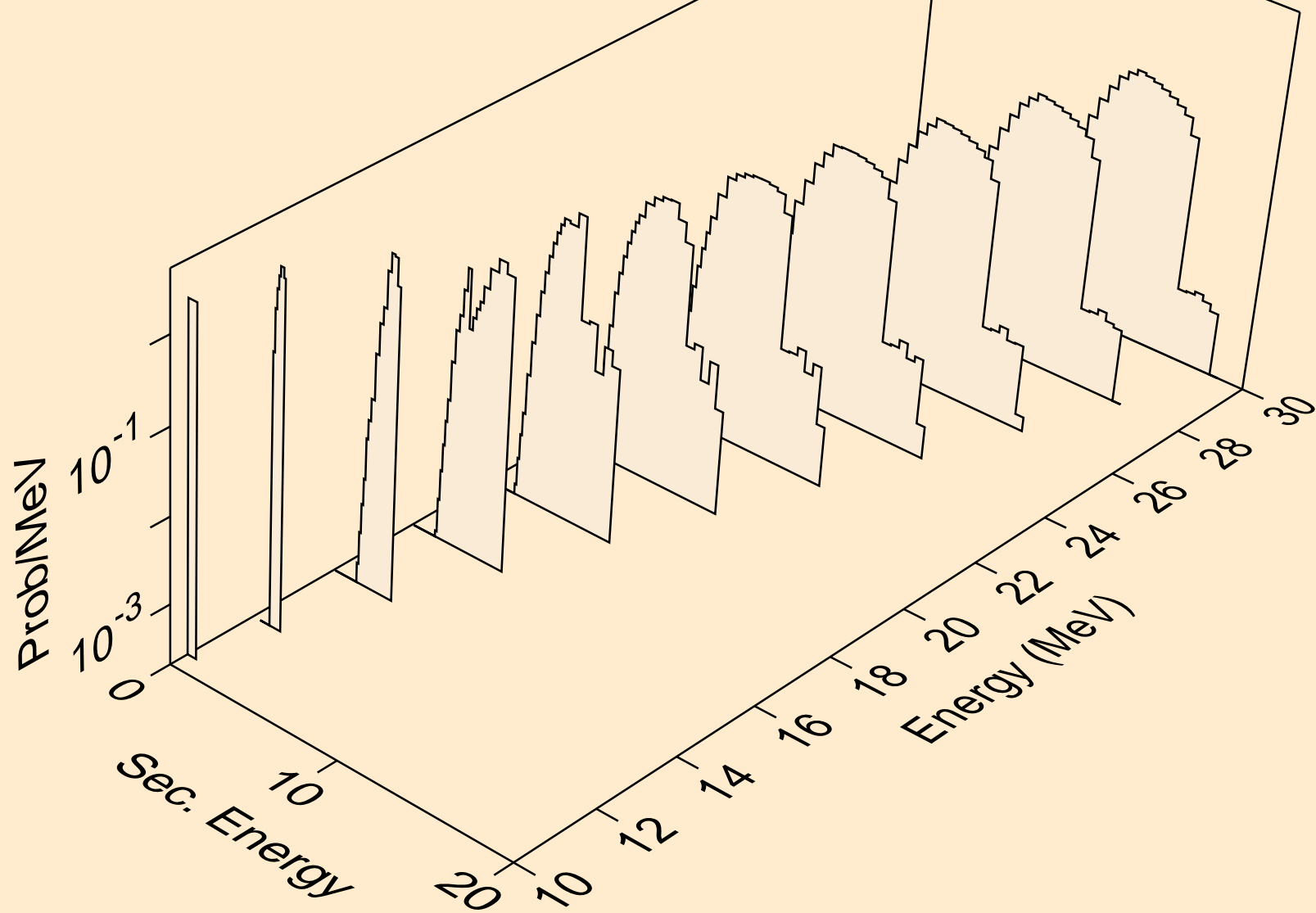
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t

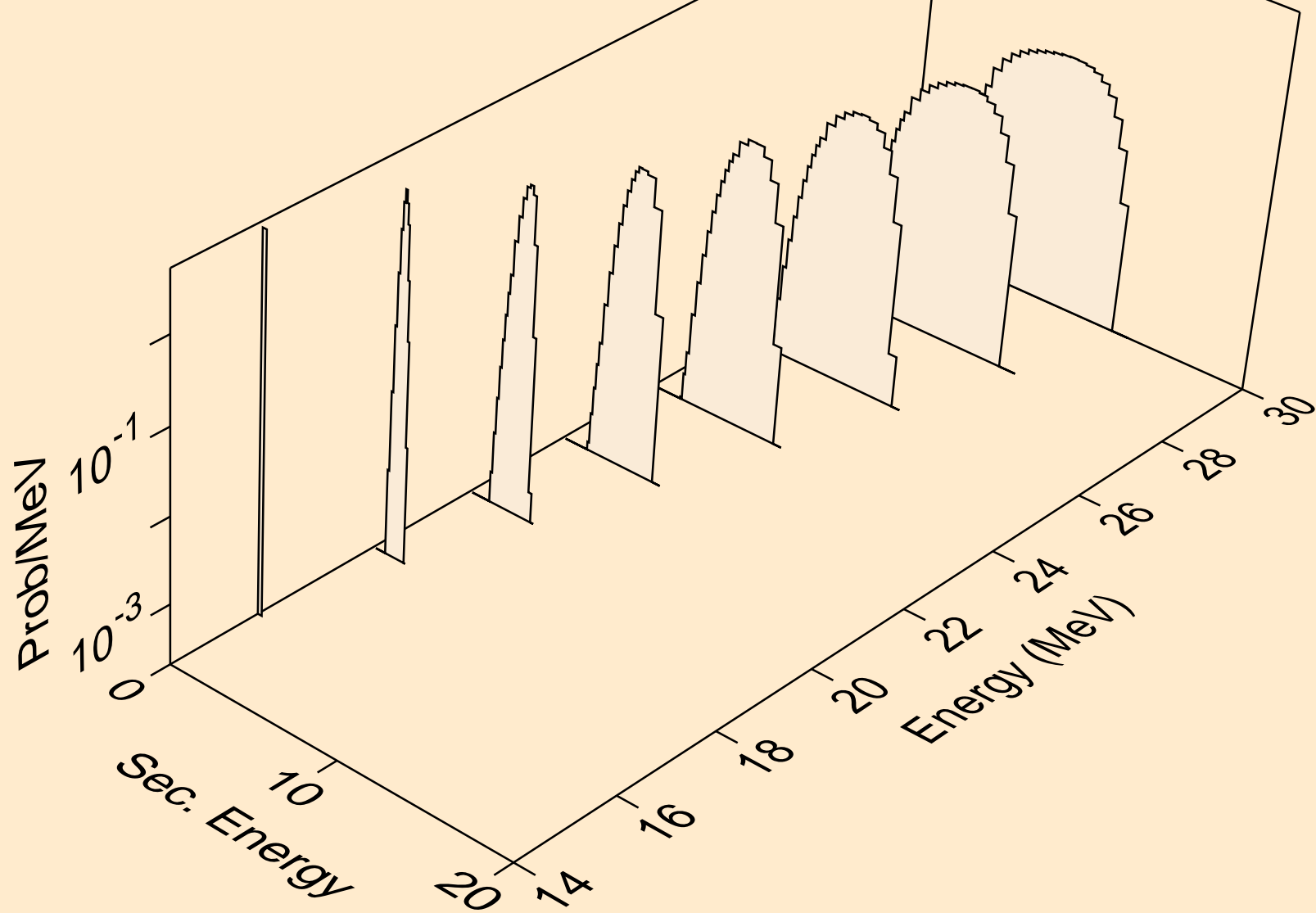


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tritons from (n,t)

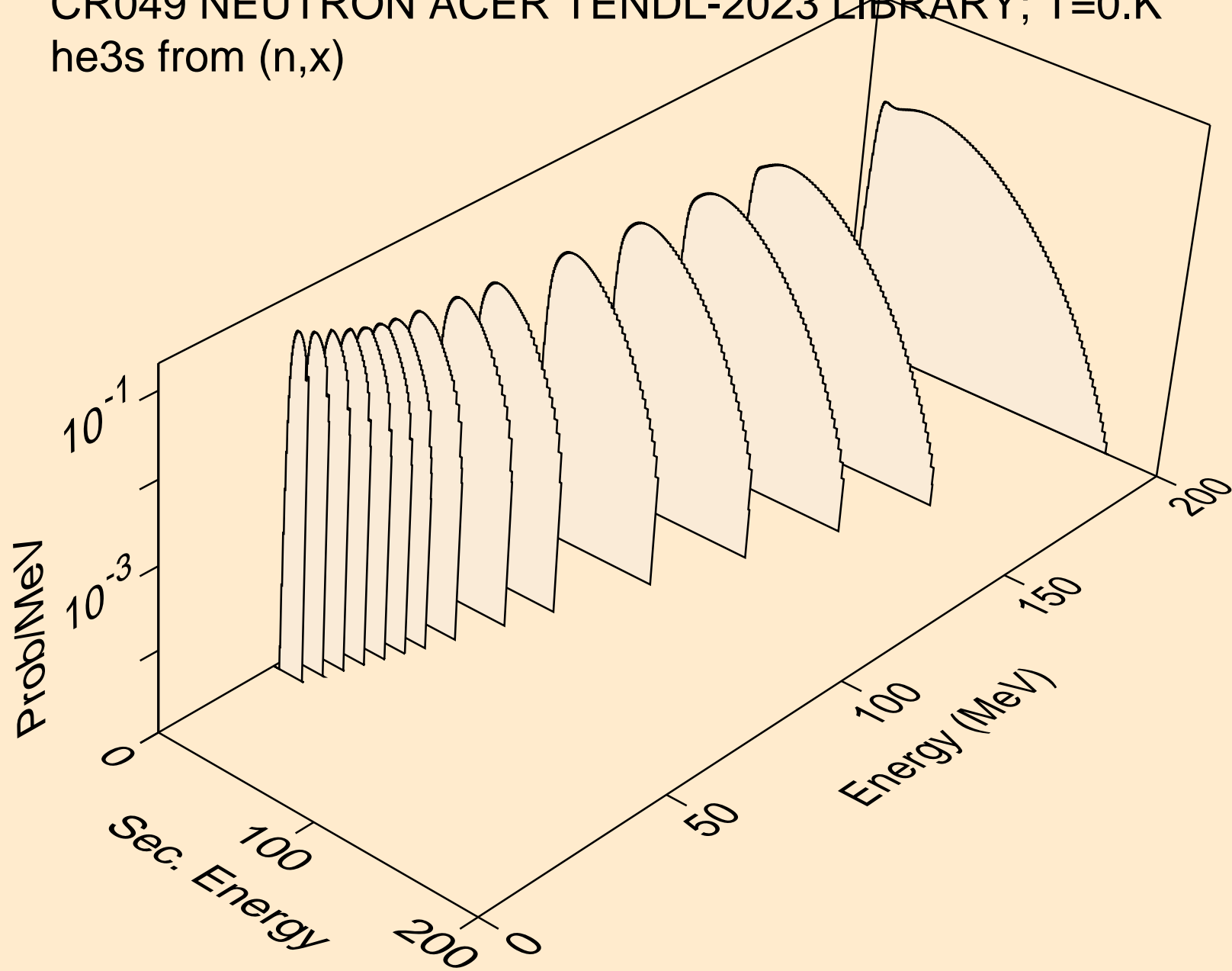




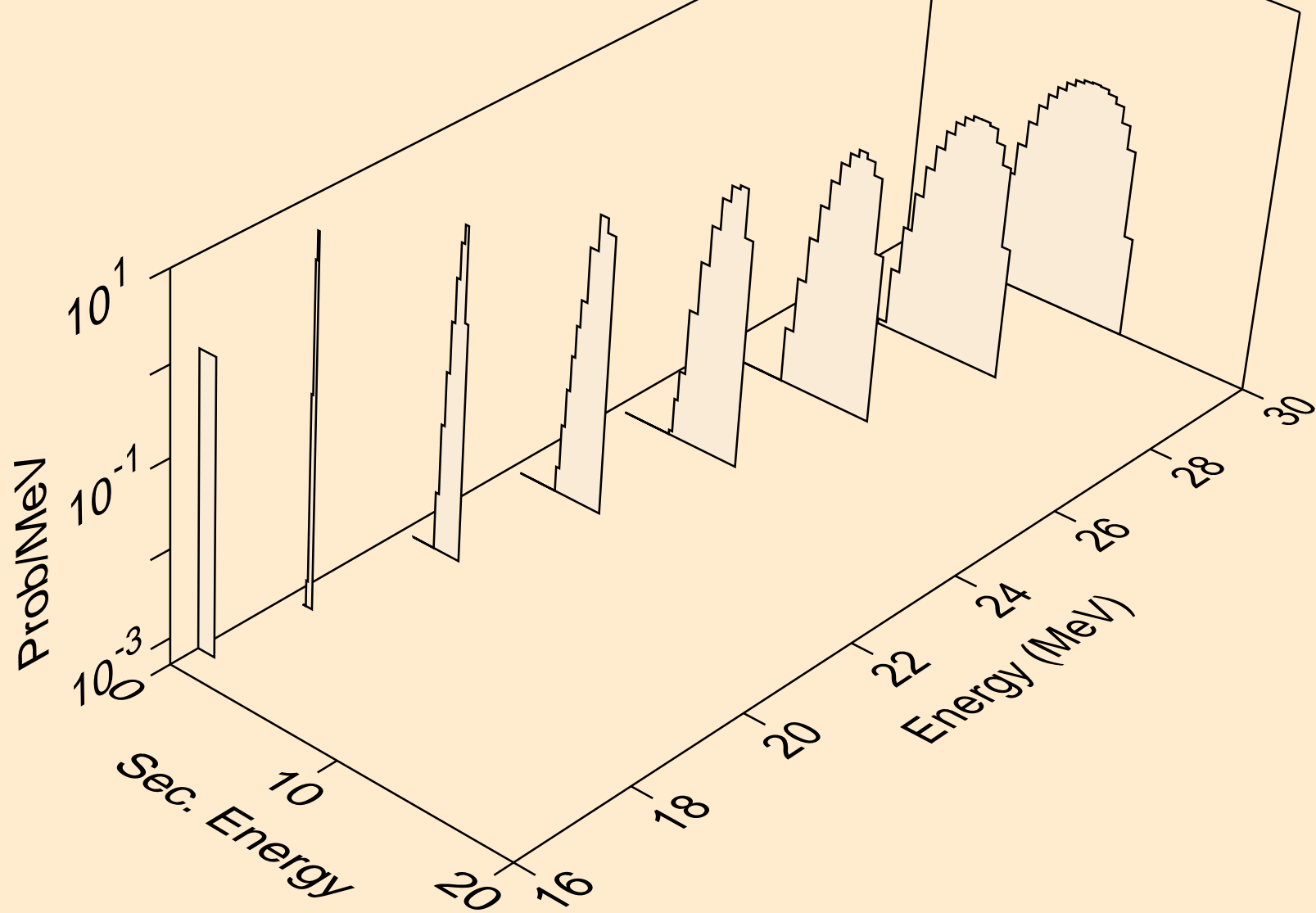
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tritons from (n,pt)



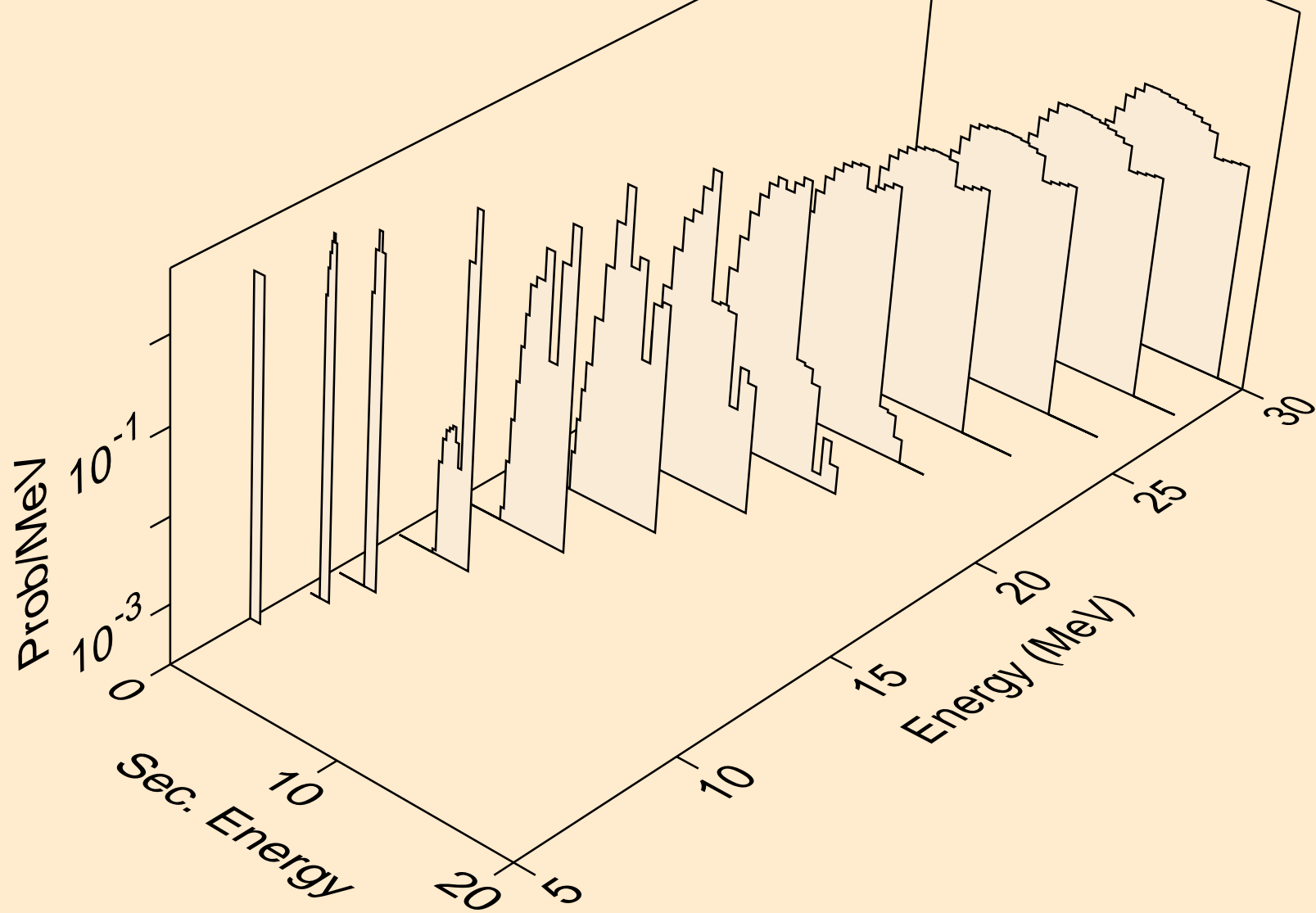
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



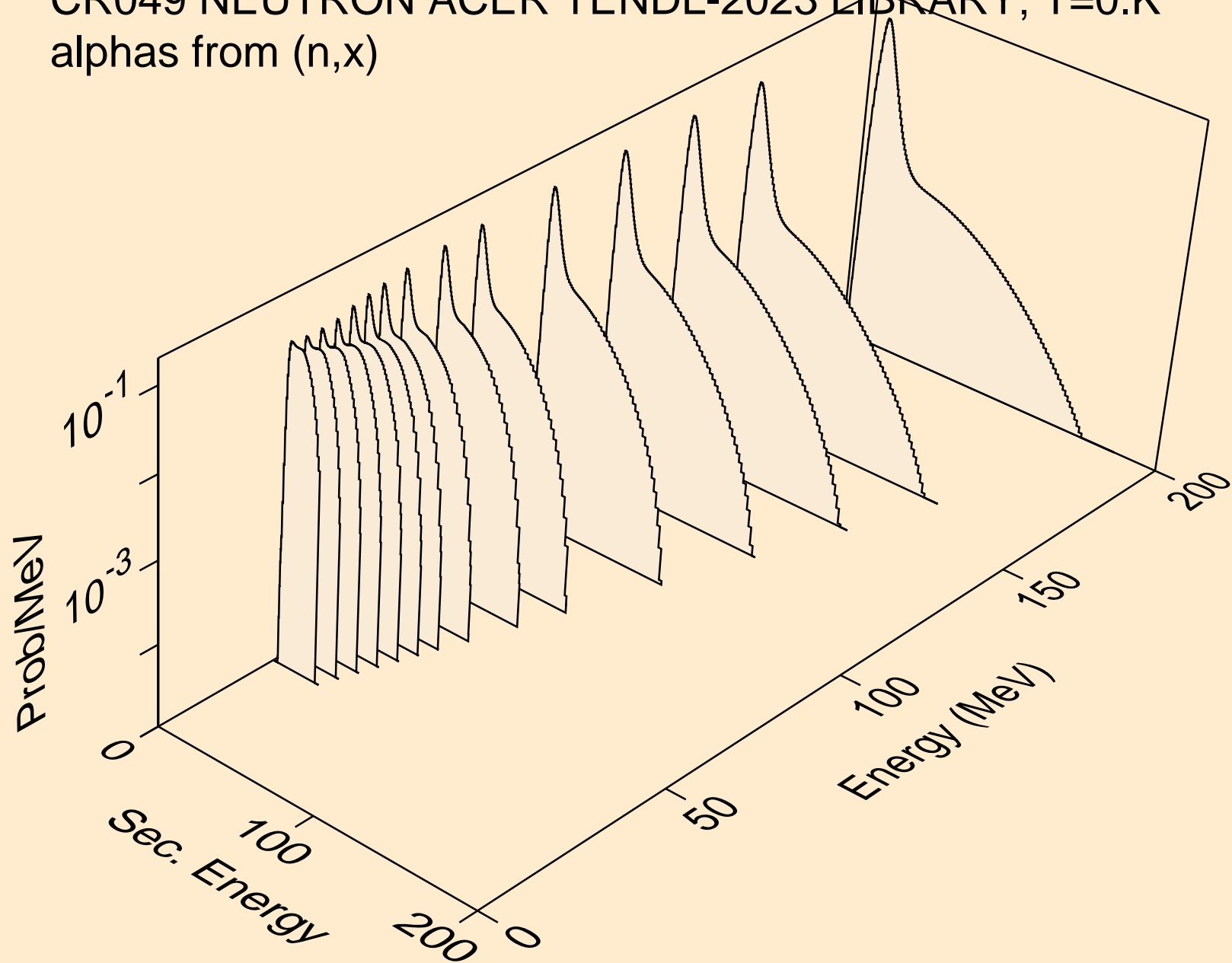
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3



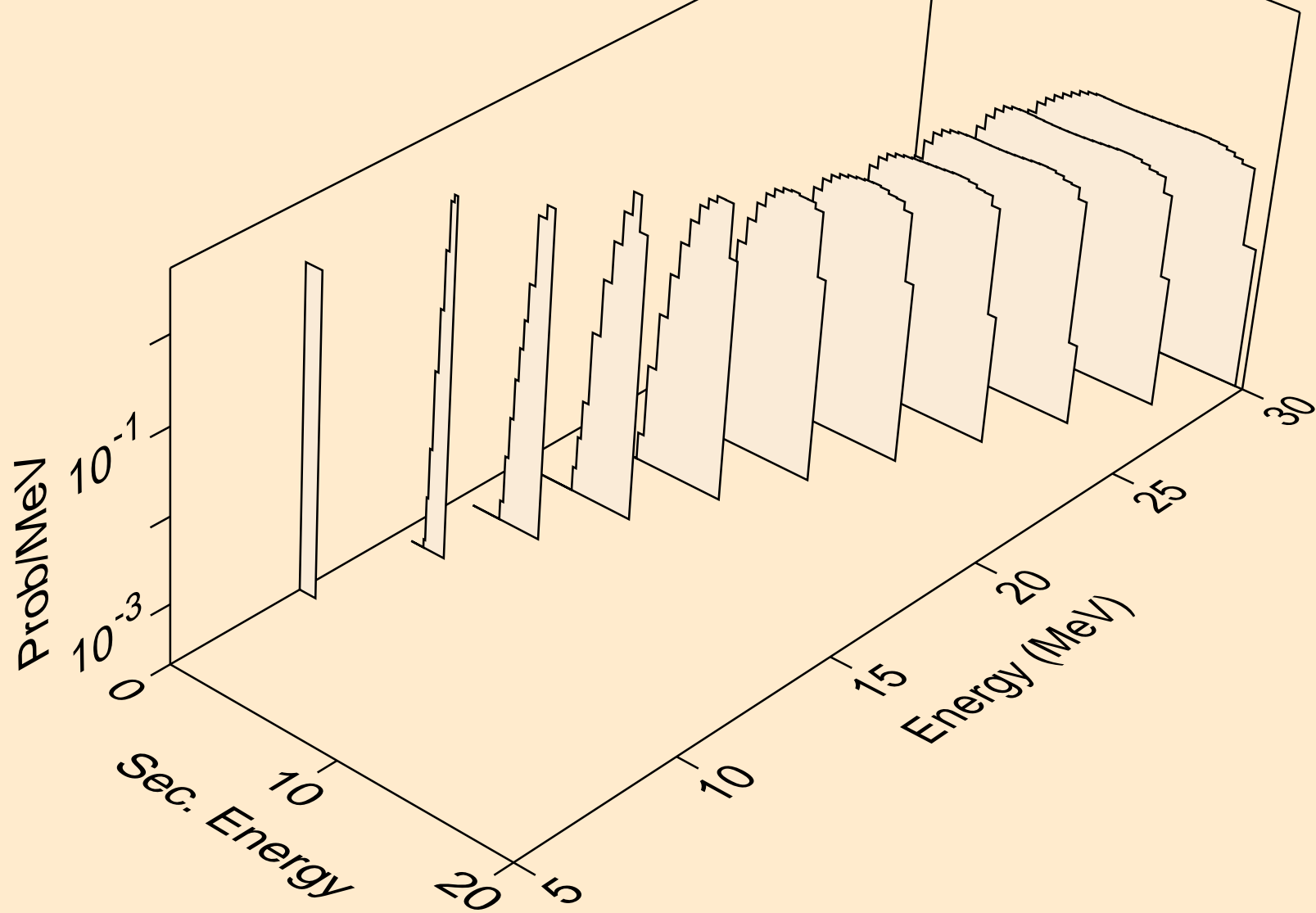
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he3s from (n,he3)



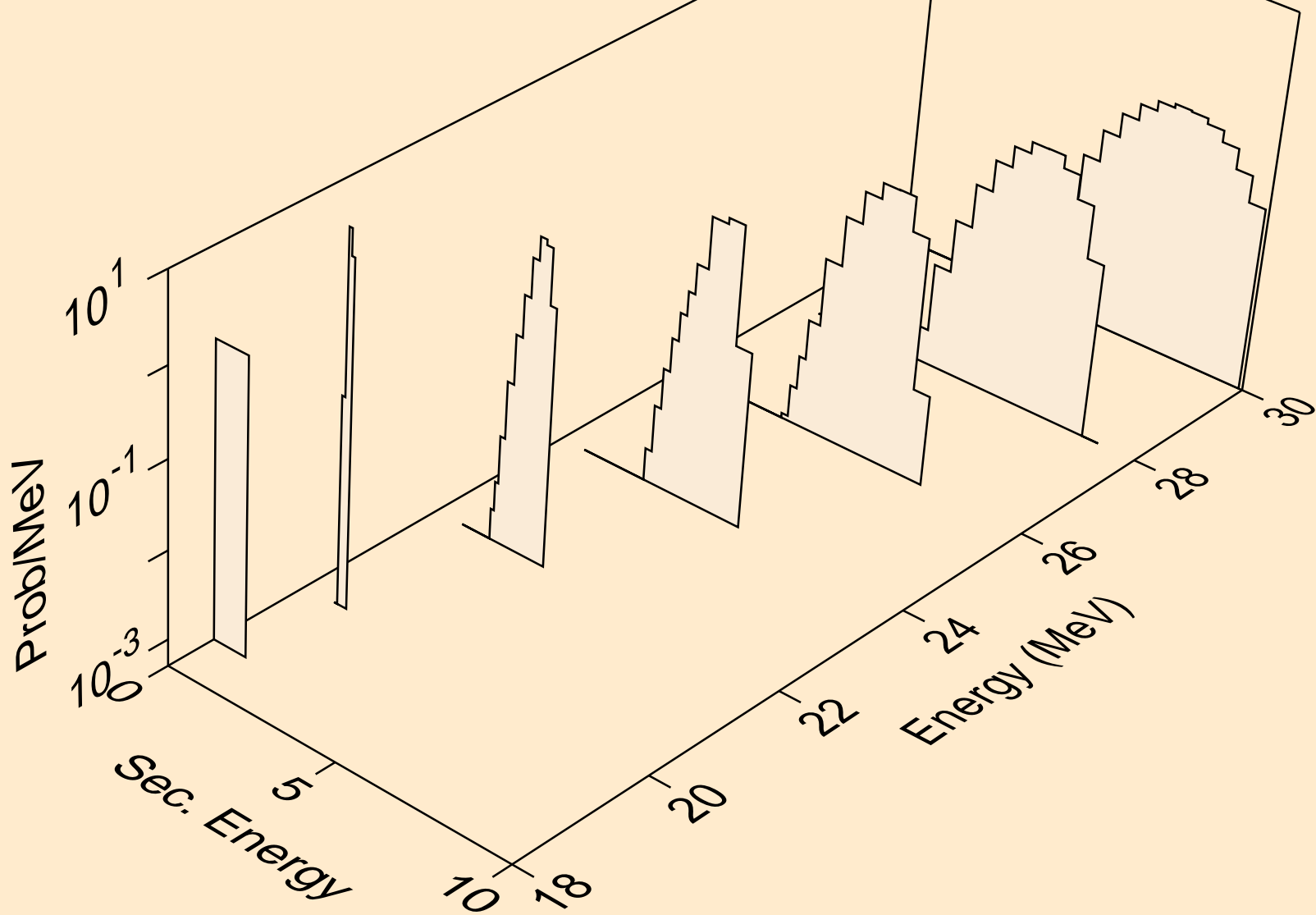
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



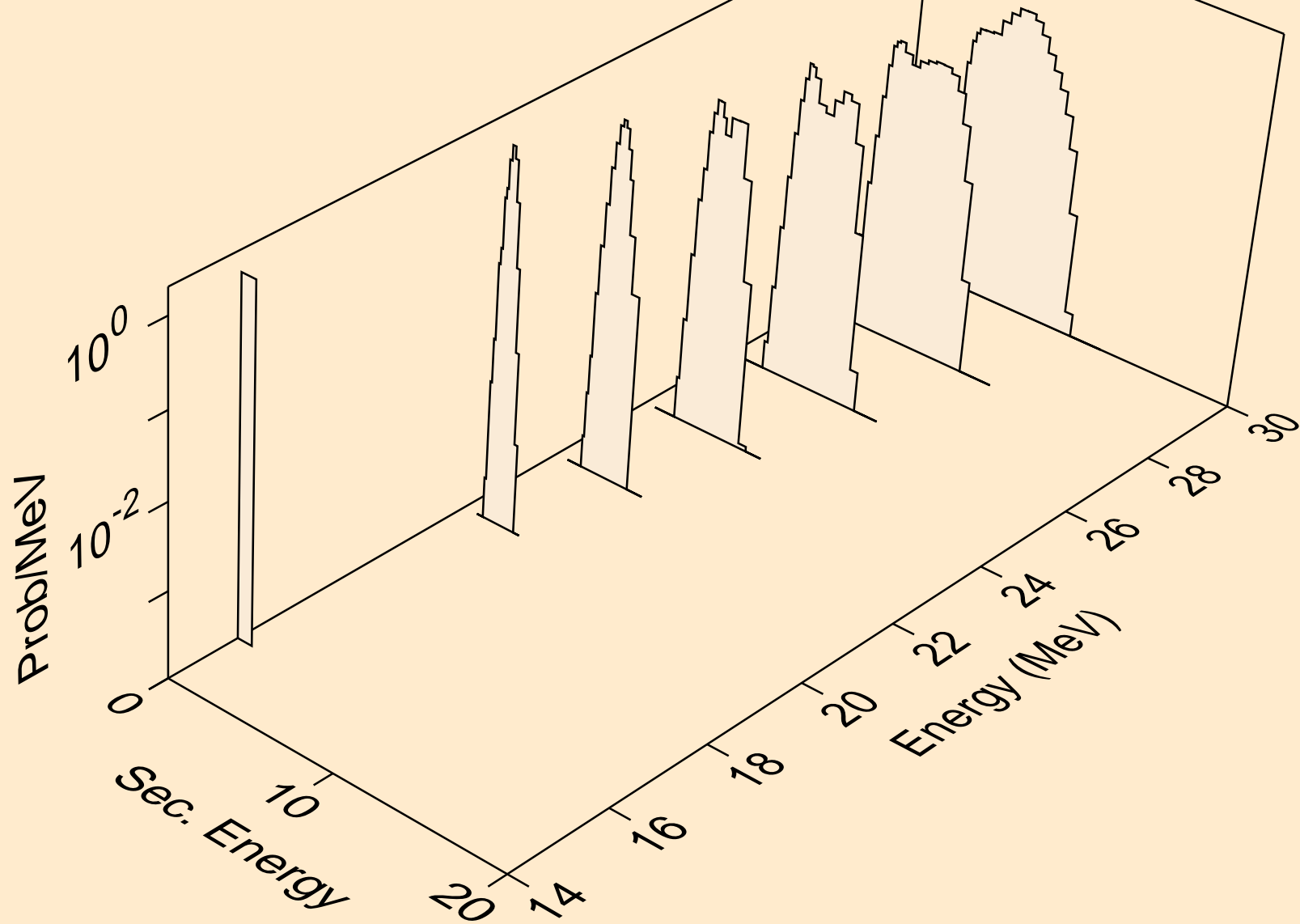
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a

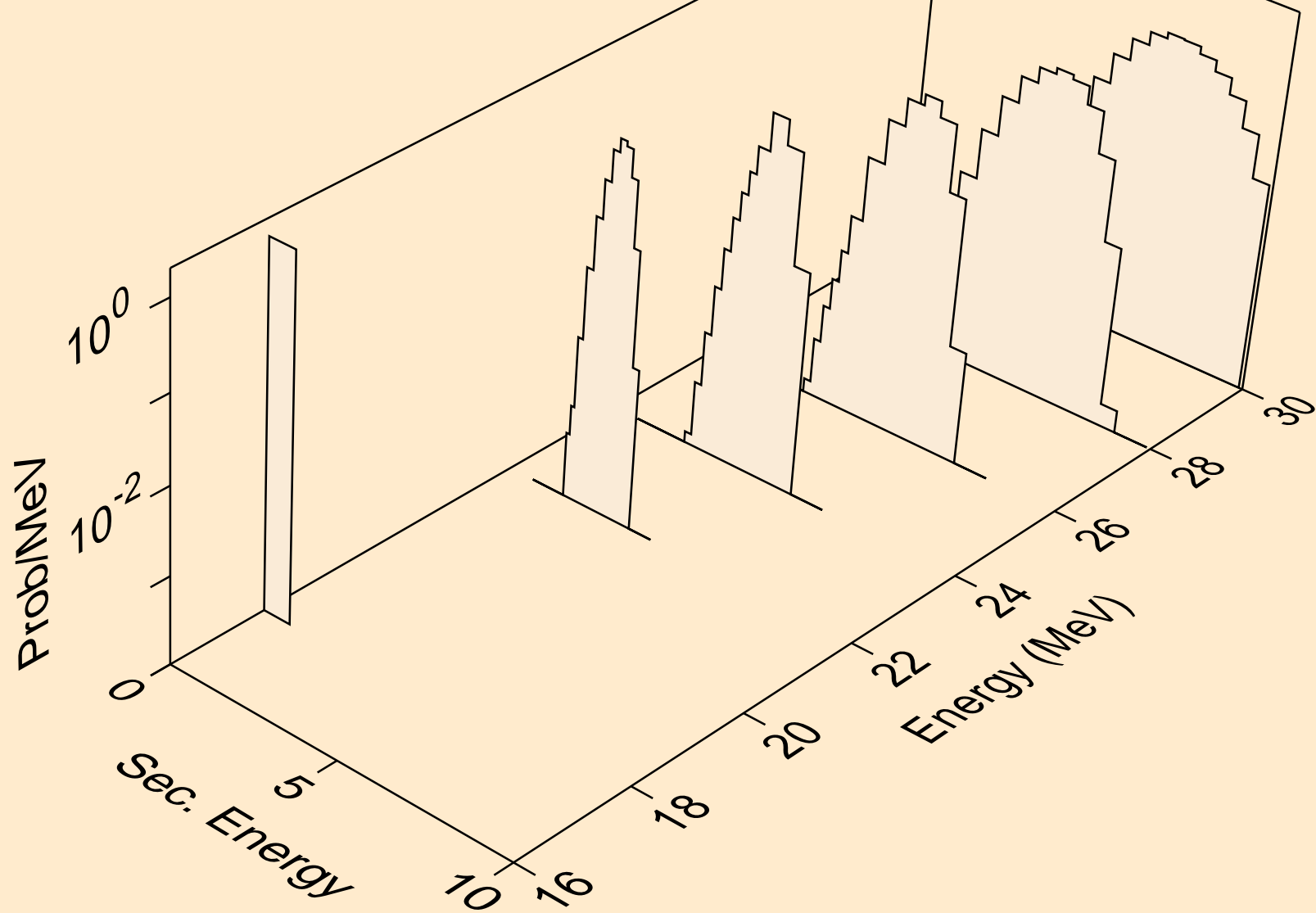


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alphas from (n,n\*)2a

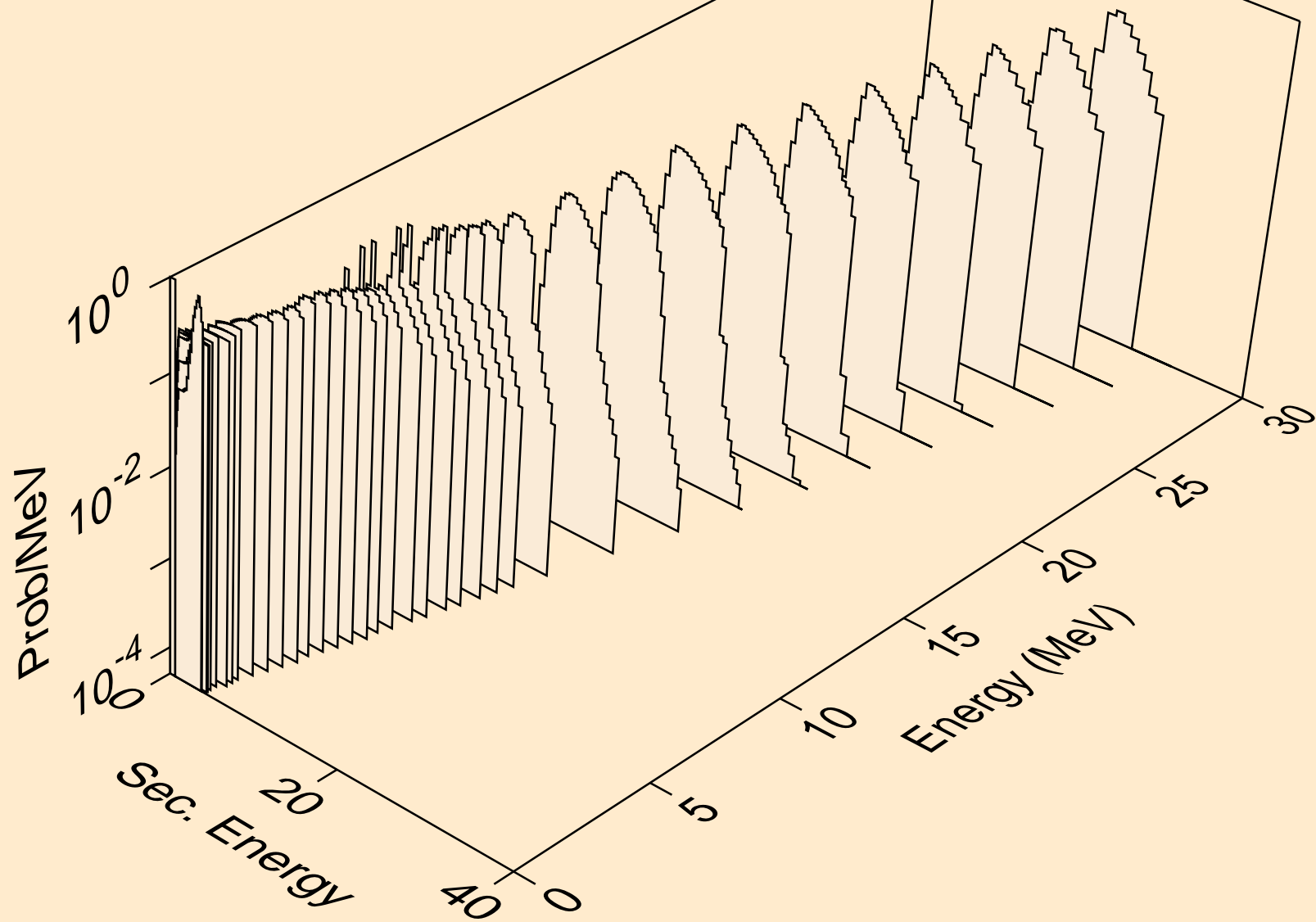




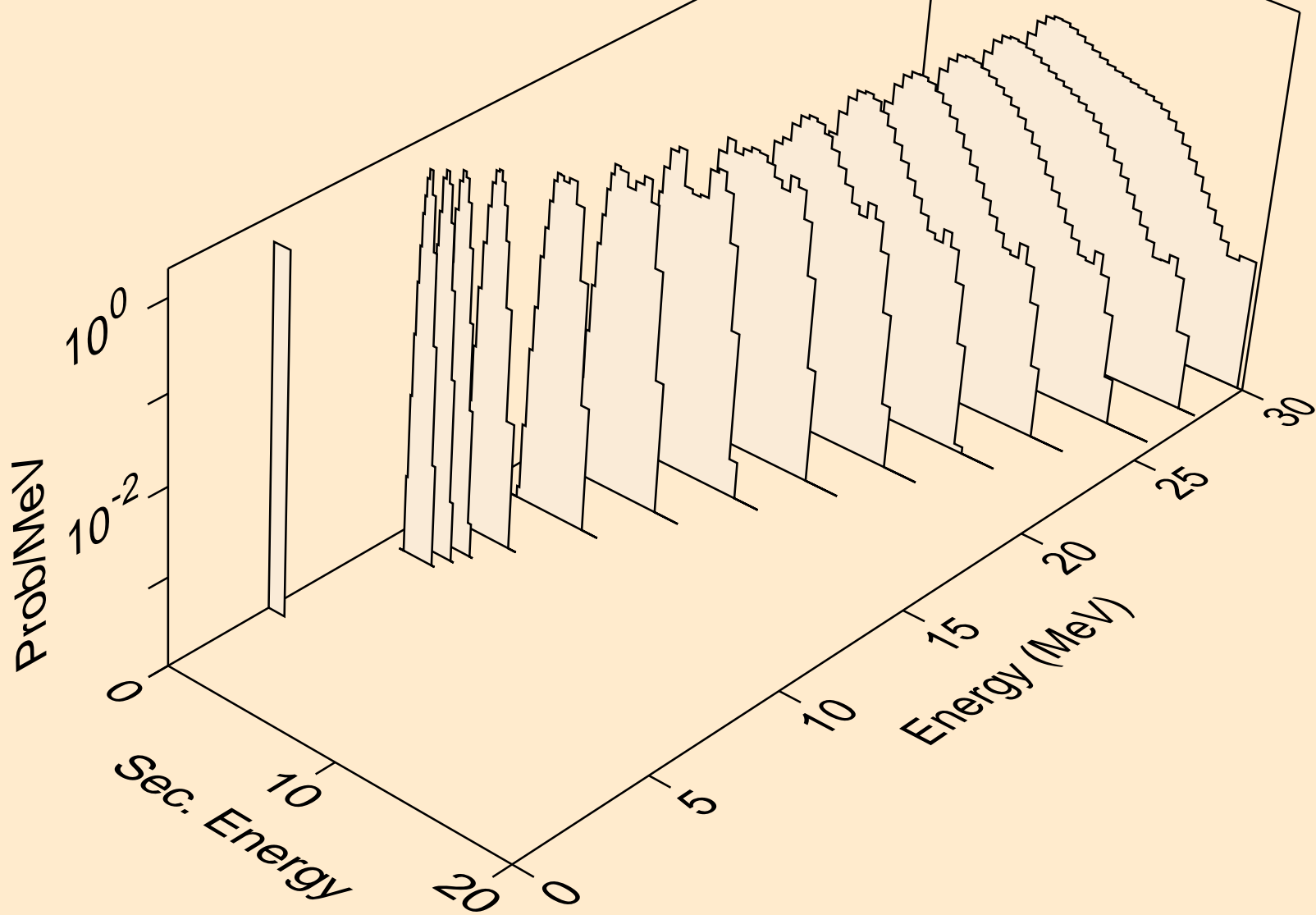
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alphas from (n,npa)



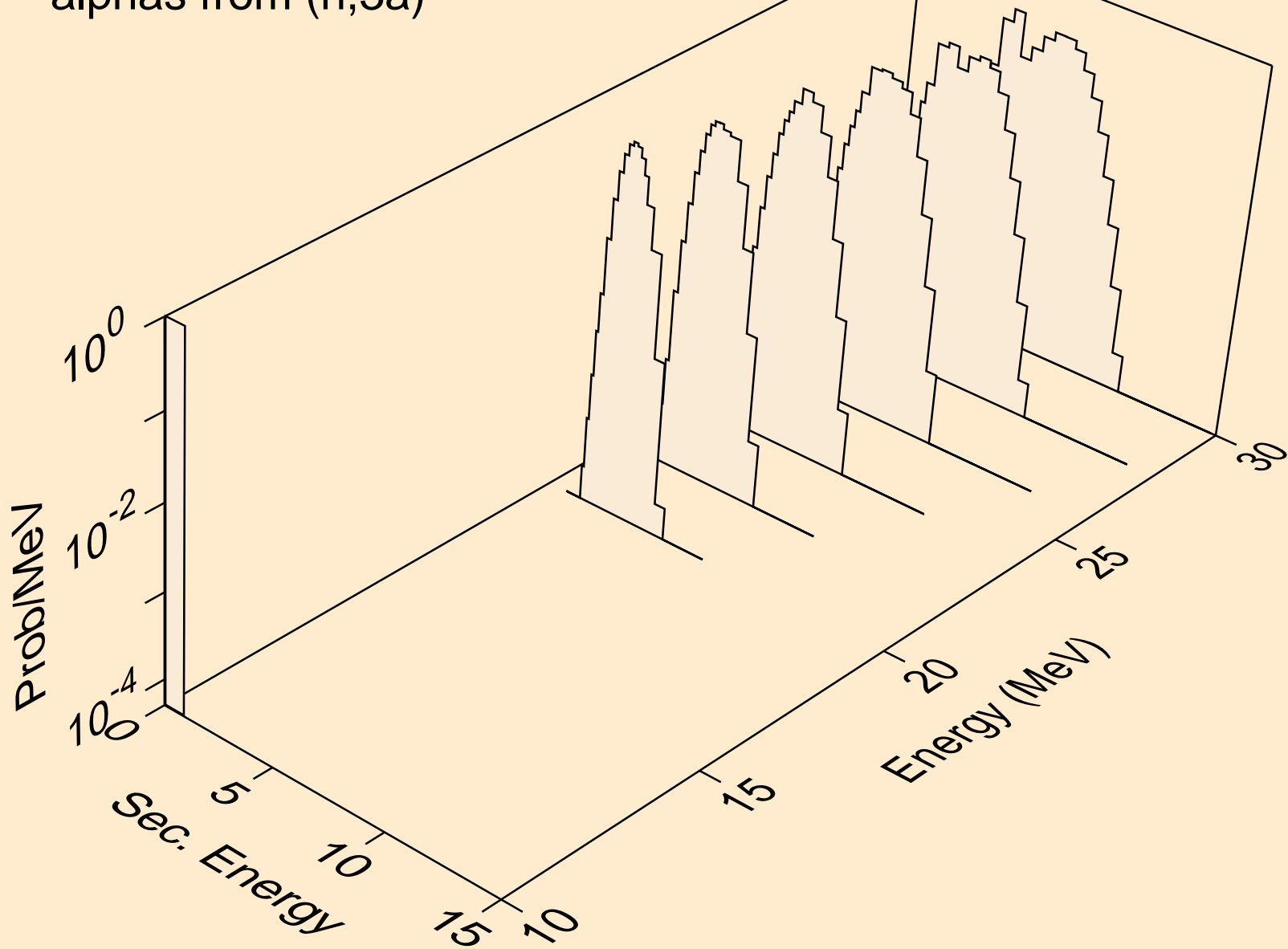
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alphas from (n,a)



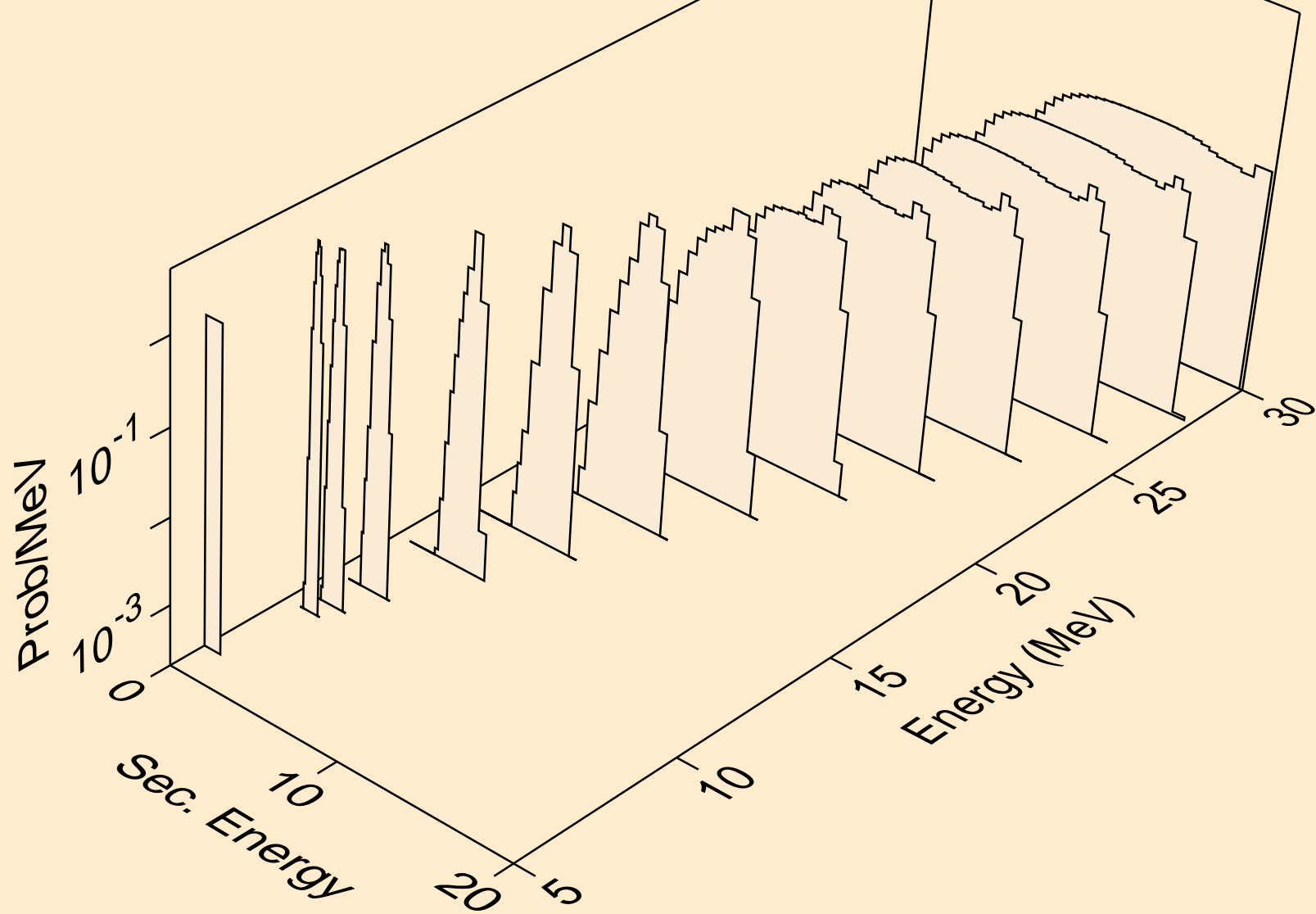
CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



CR049 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

