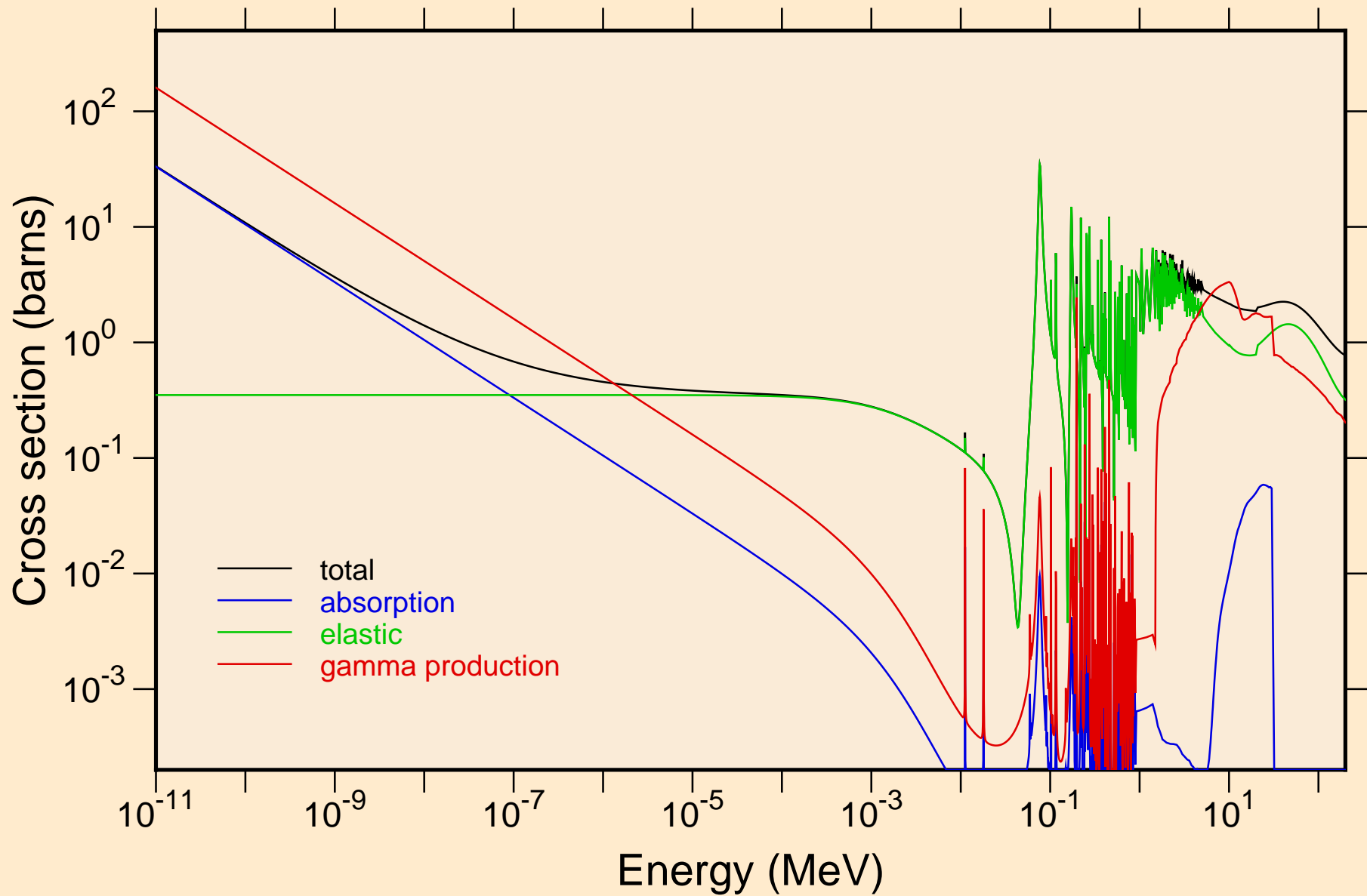
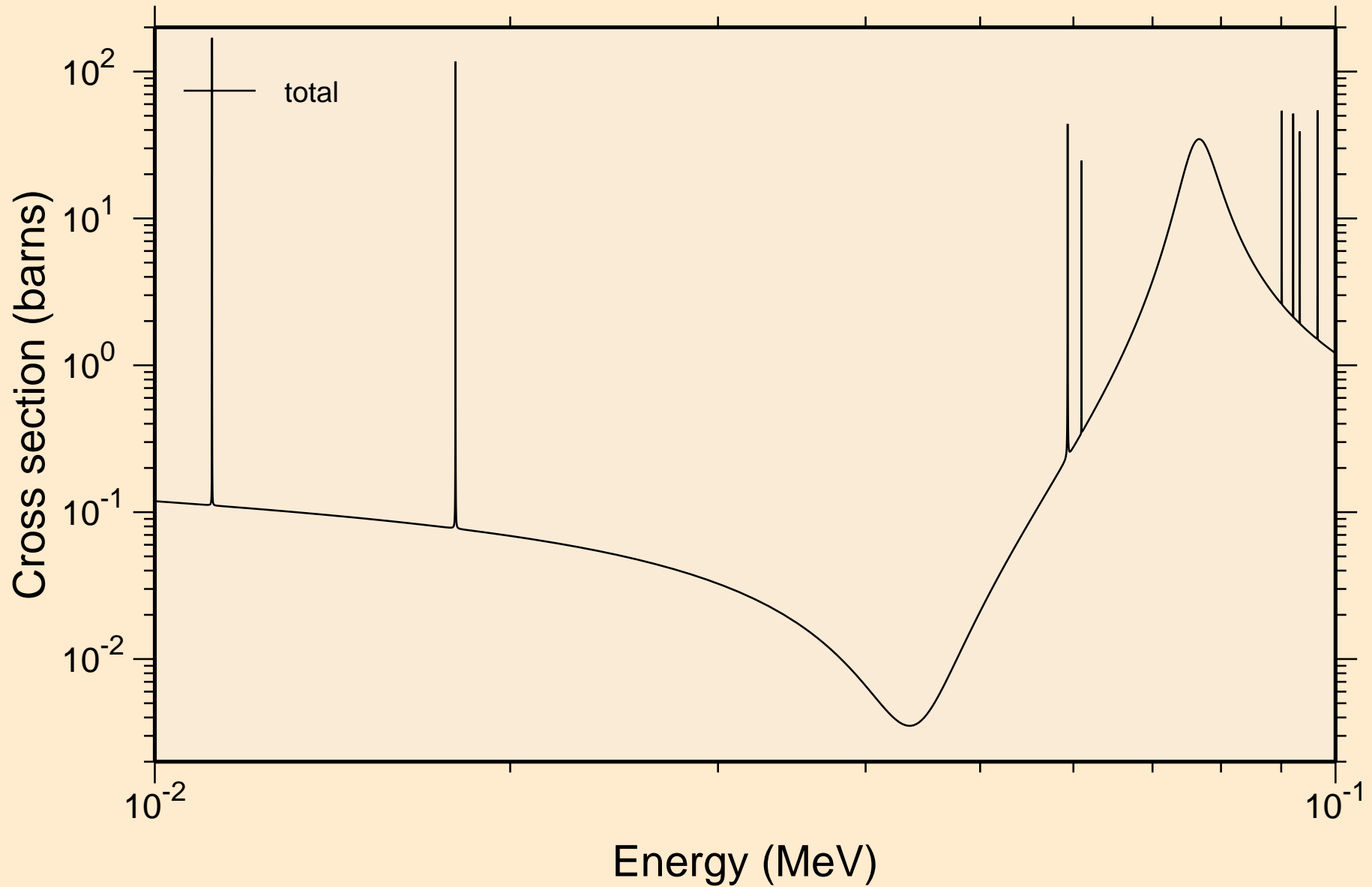


# AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

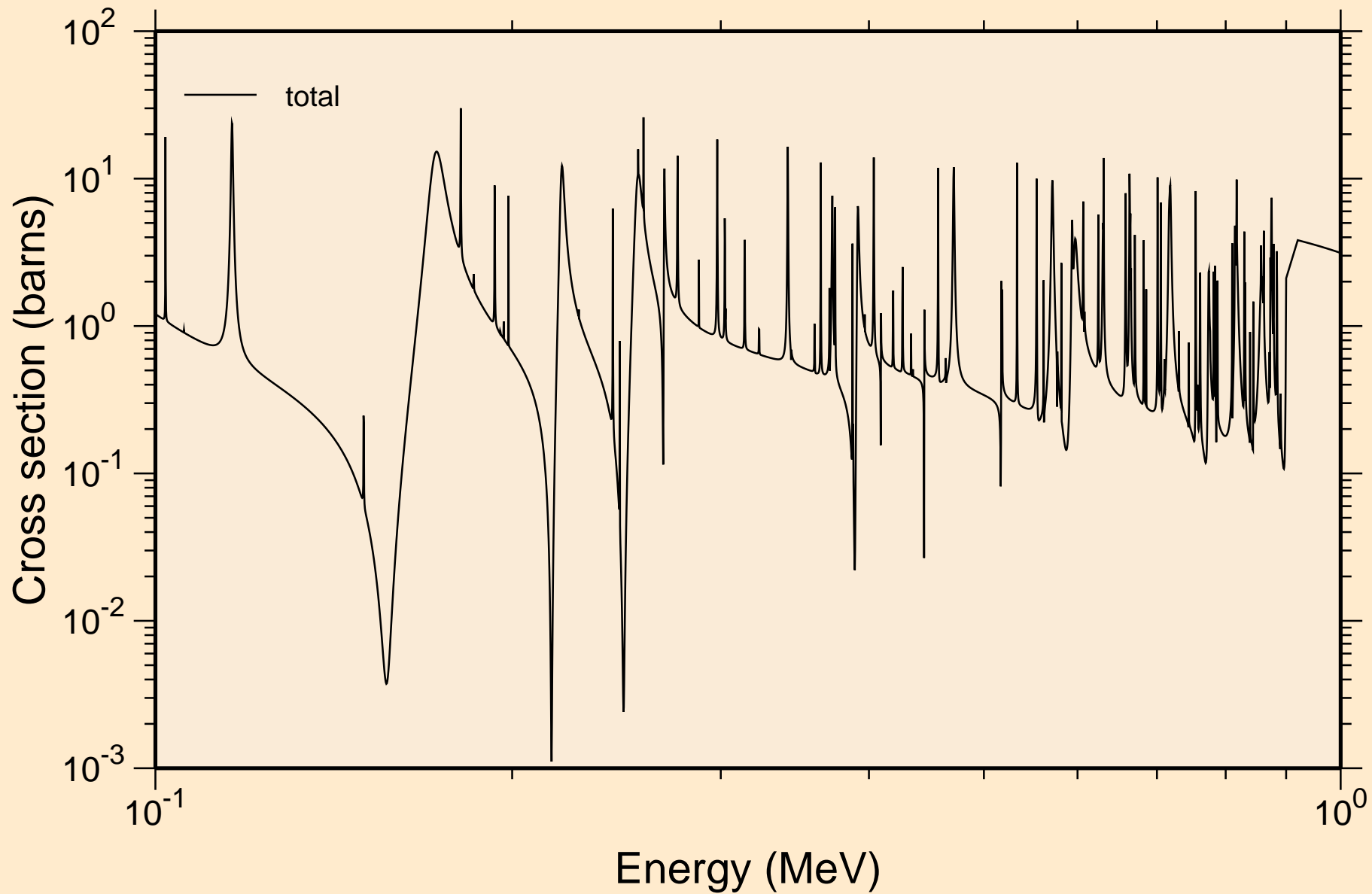
## Principal cross sections



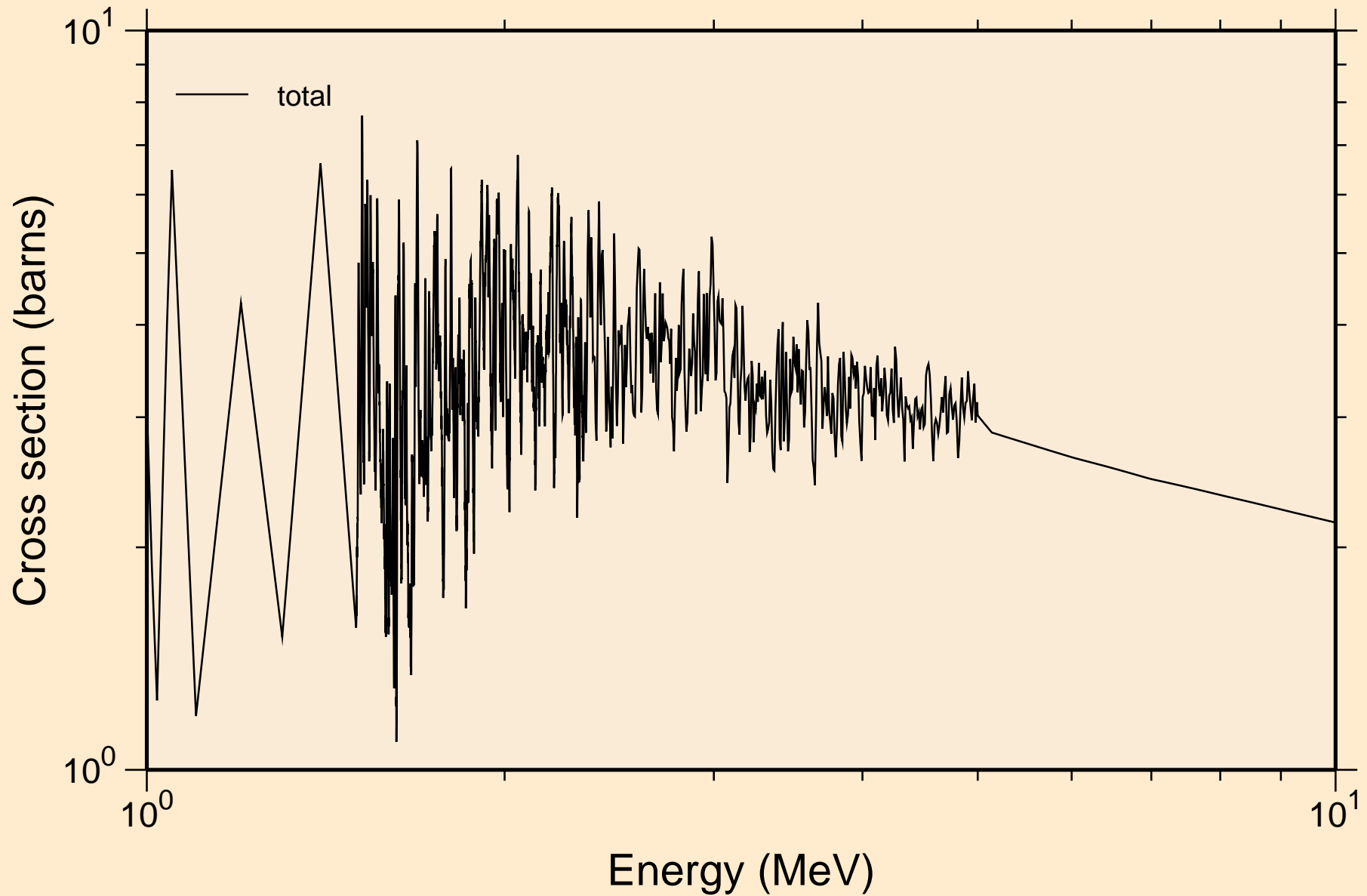
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resonance total cross section



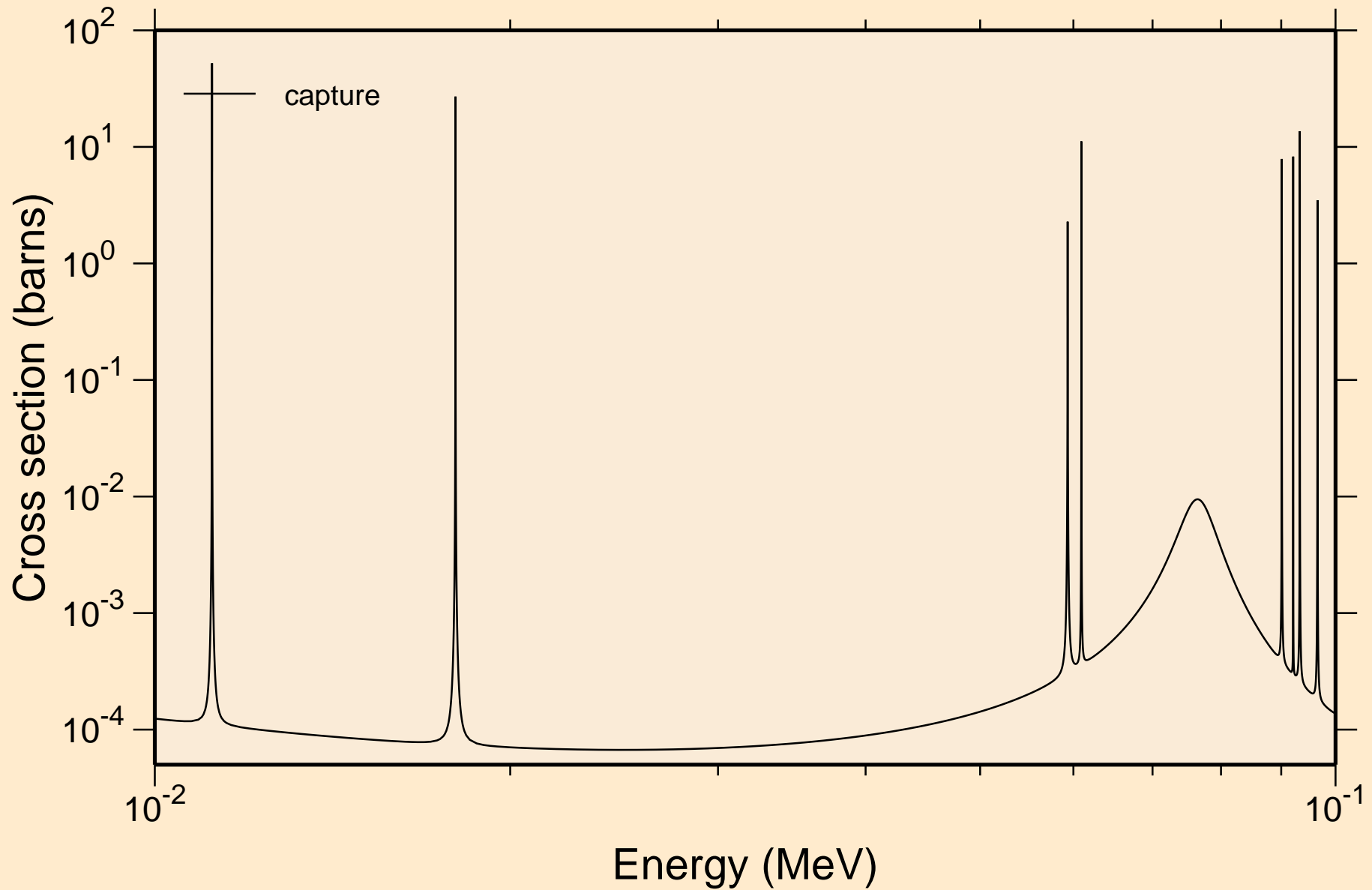
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



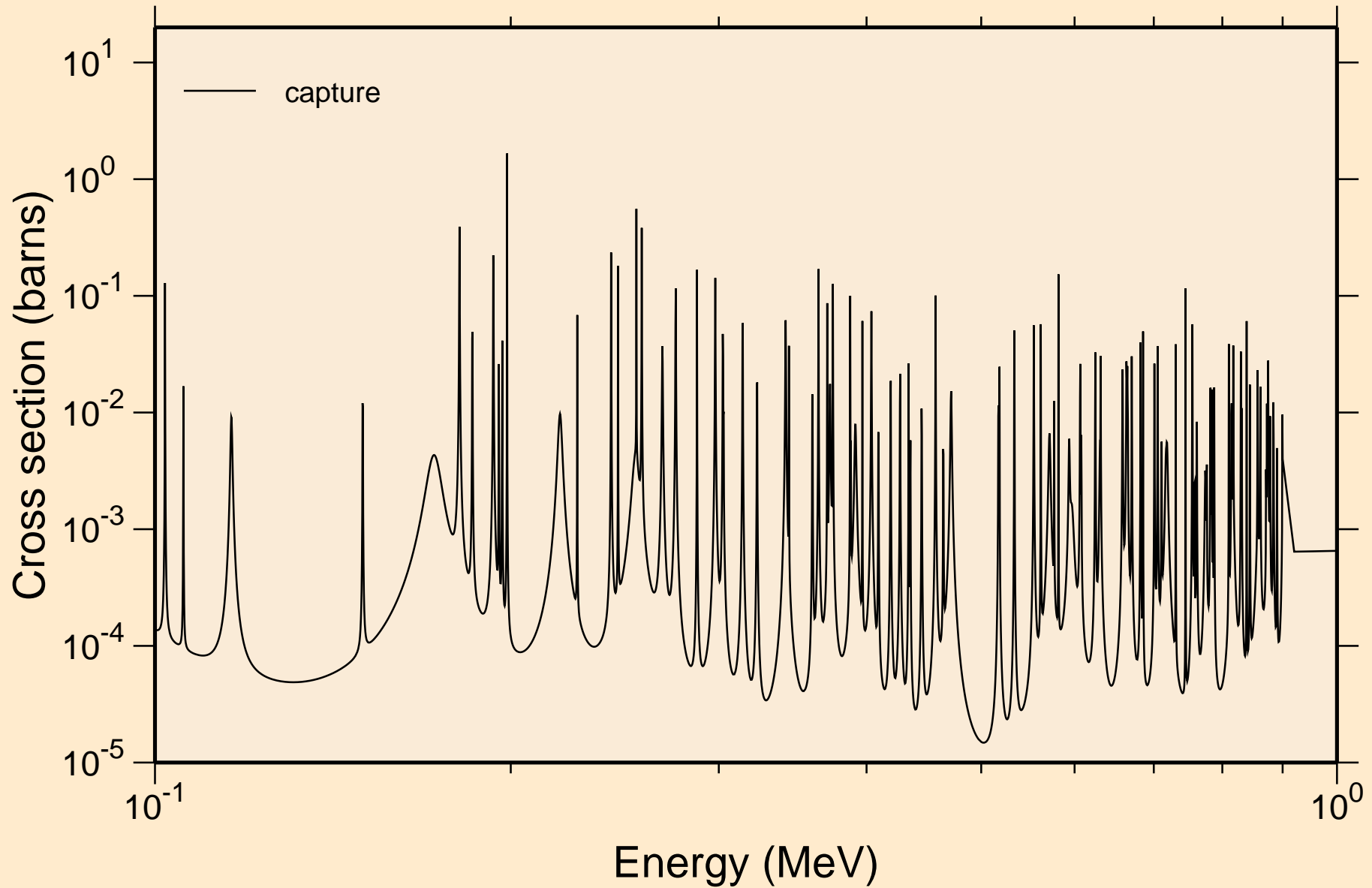
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



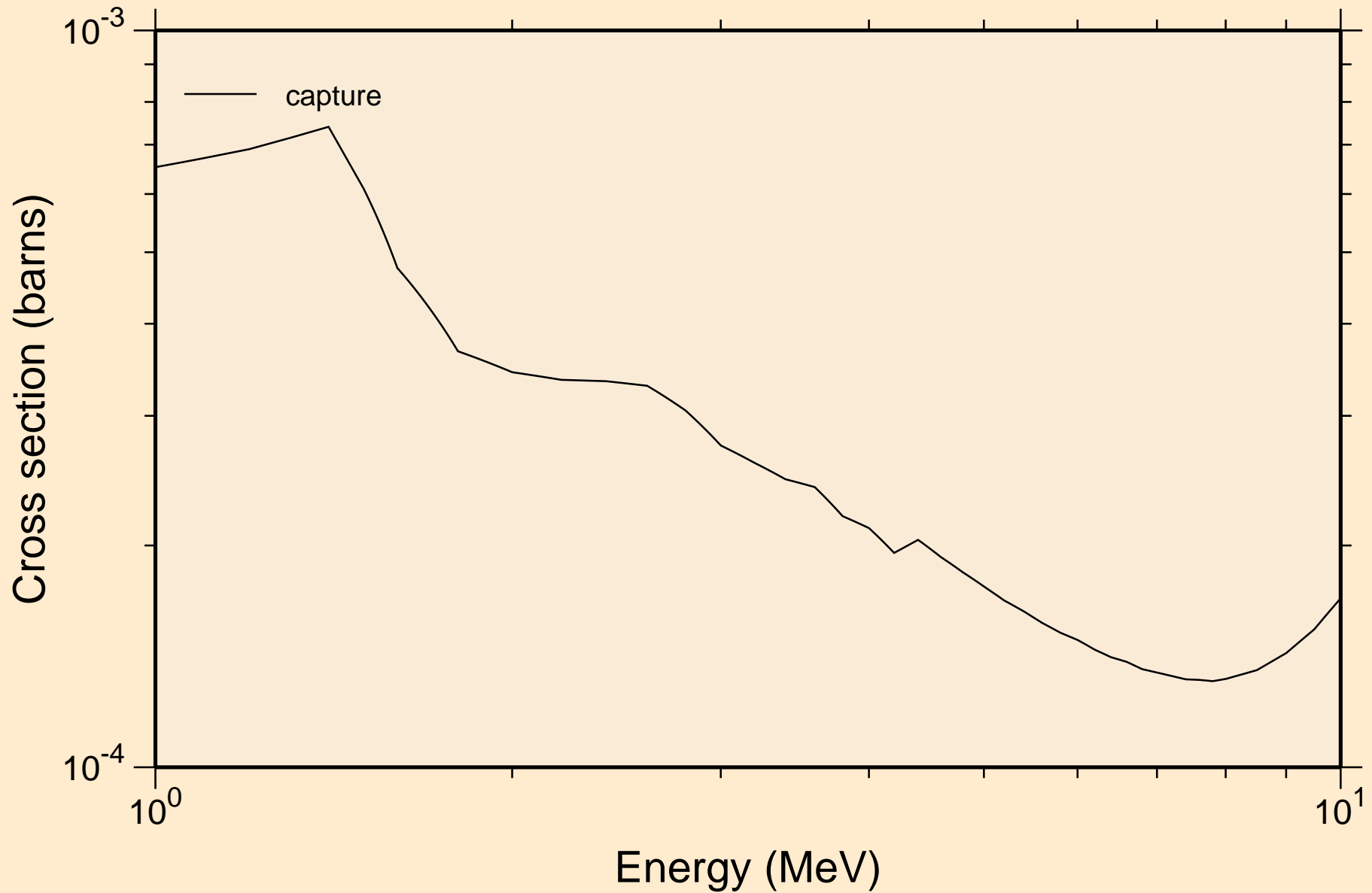
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



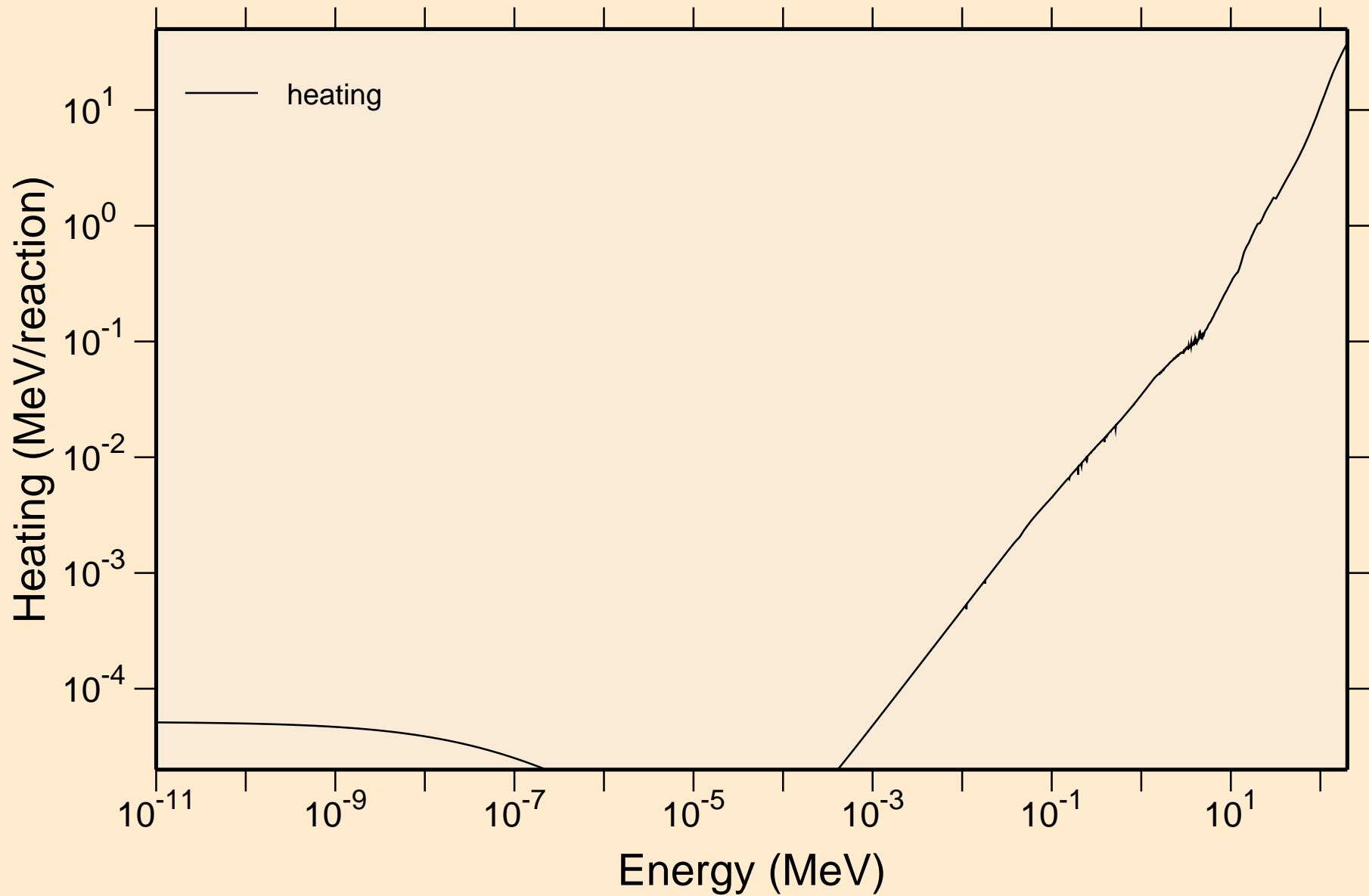
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

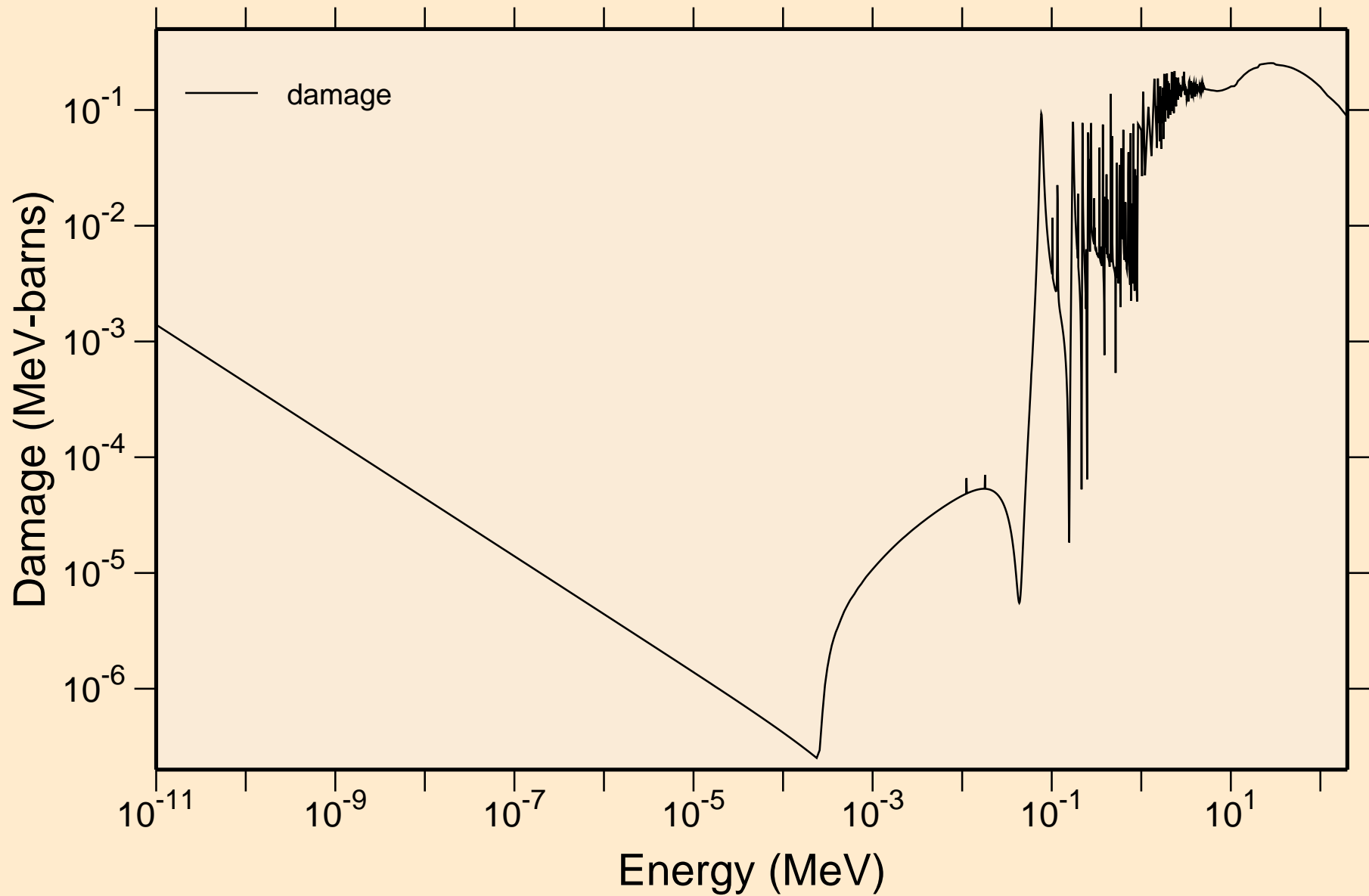


AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating

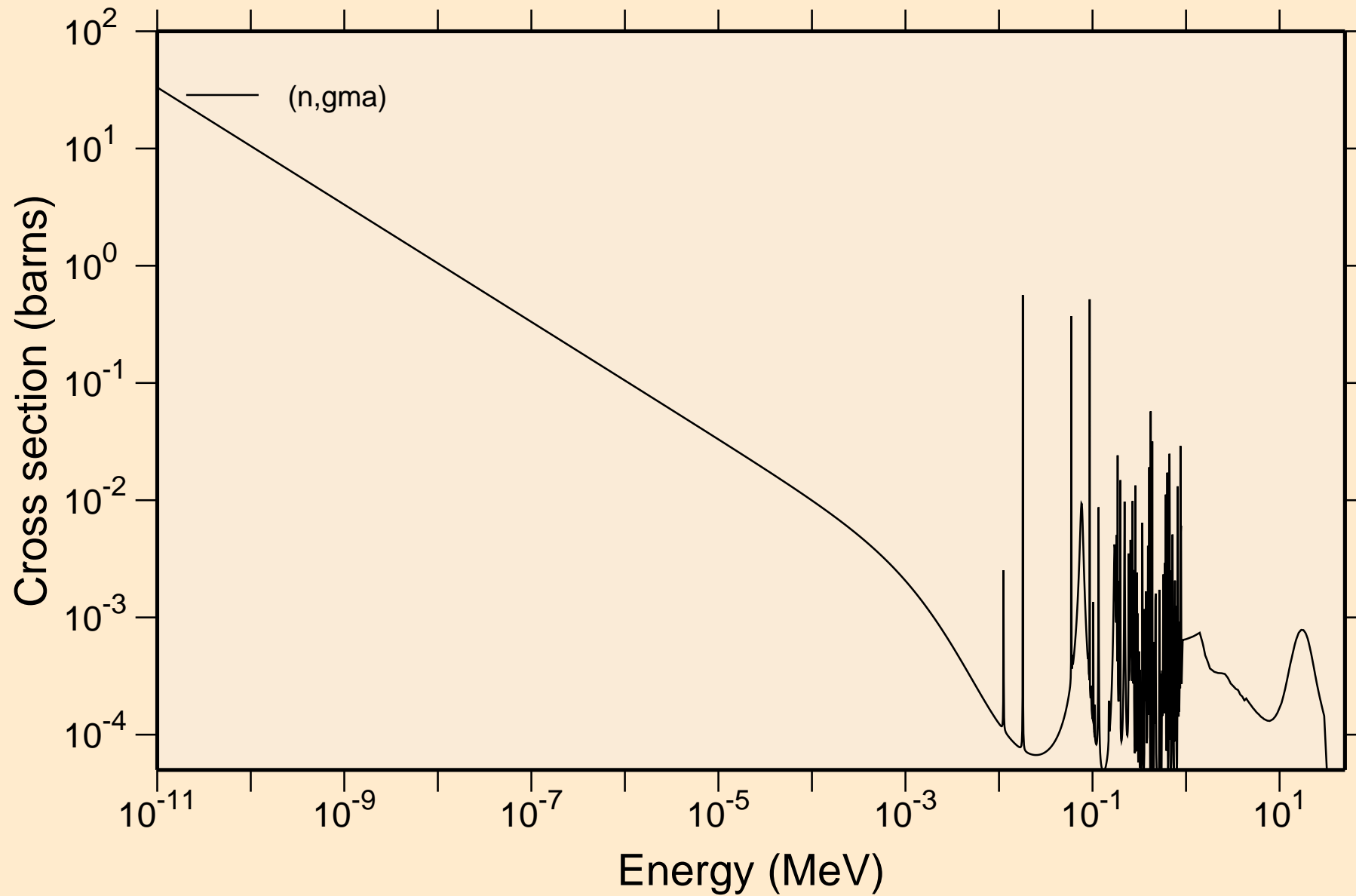




AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

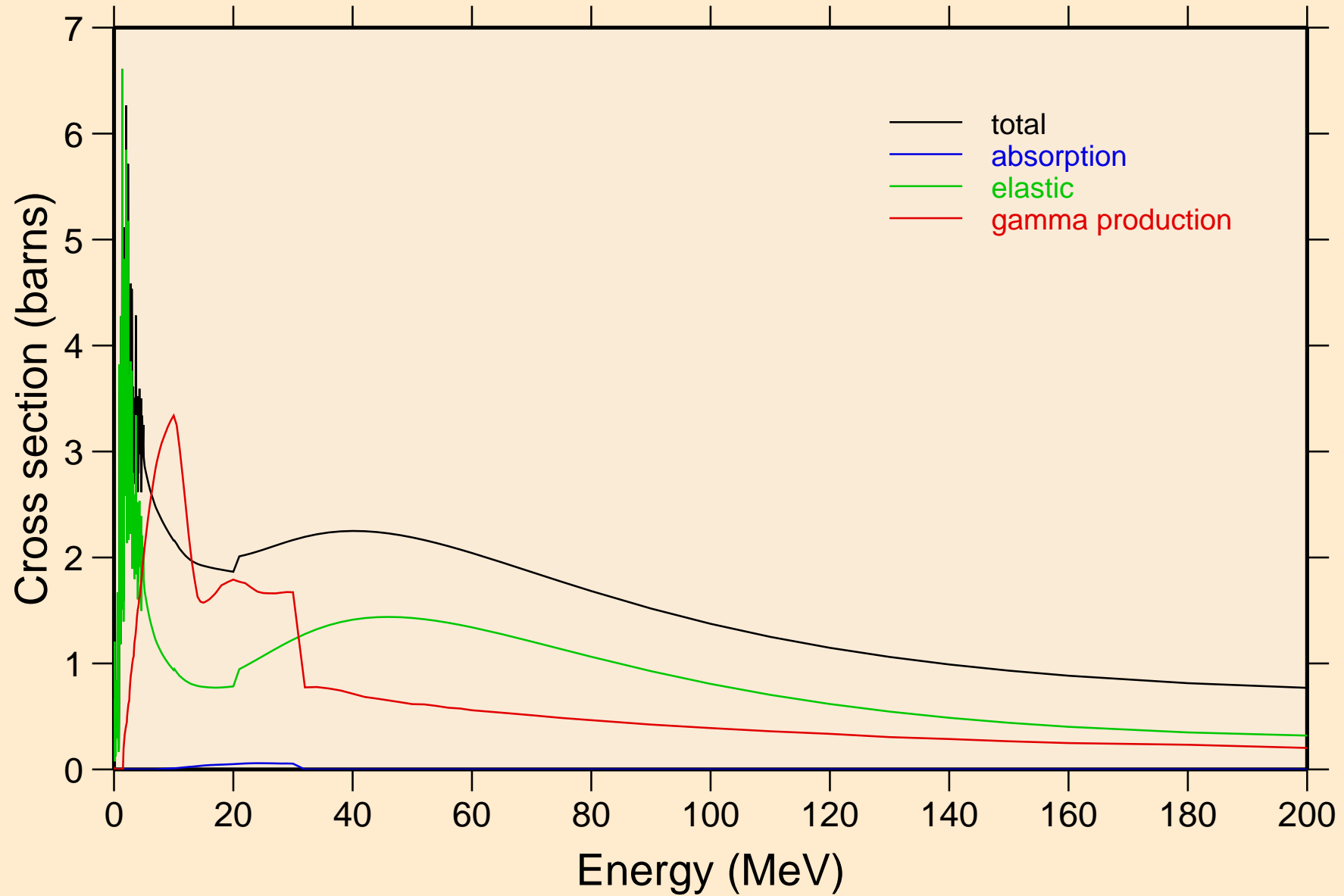


AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



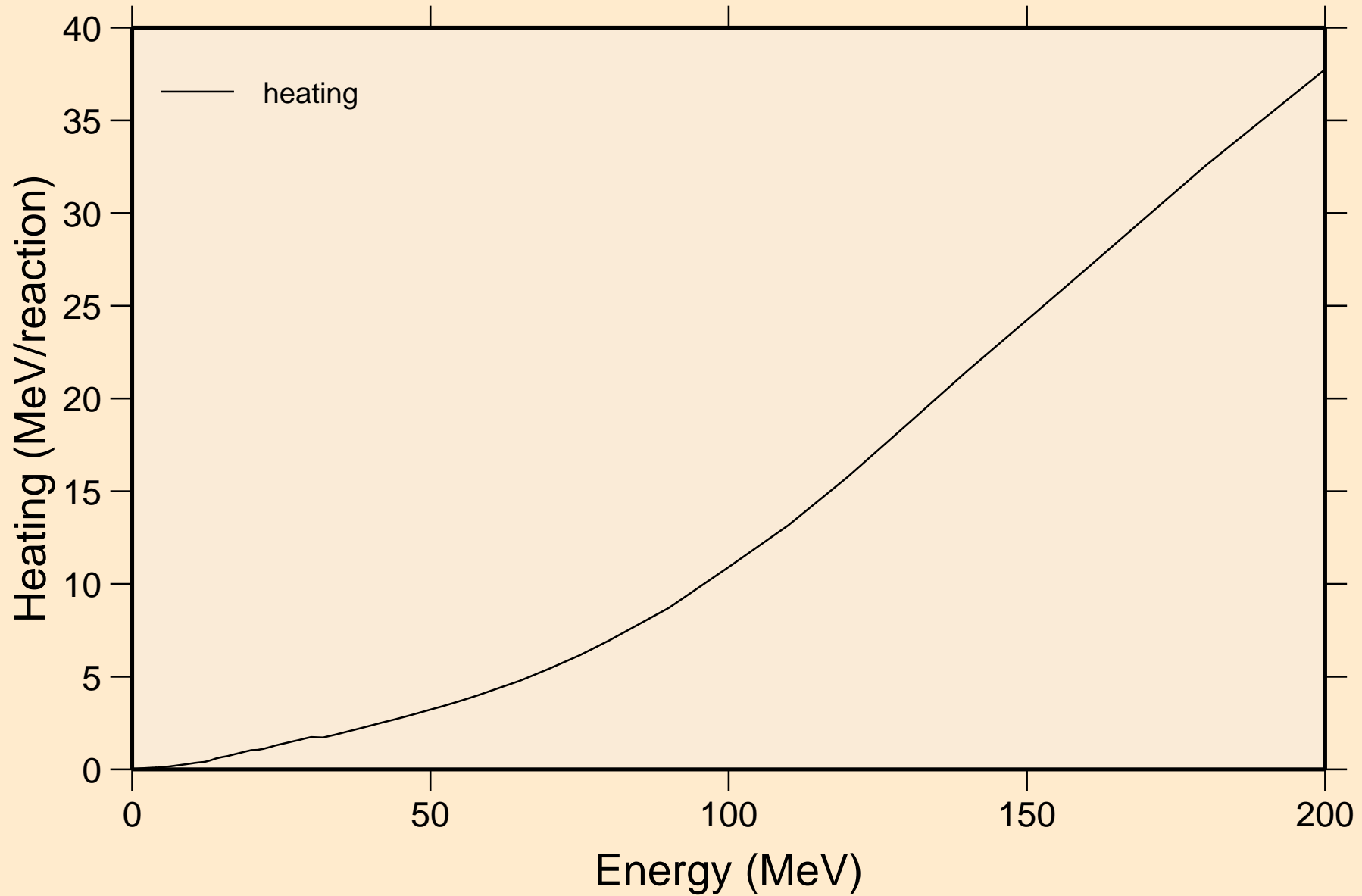
# AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

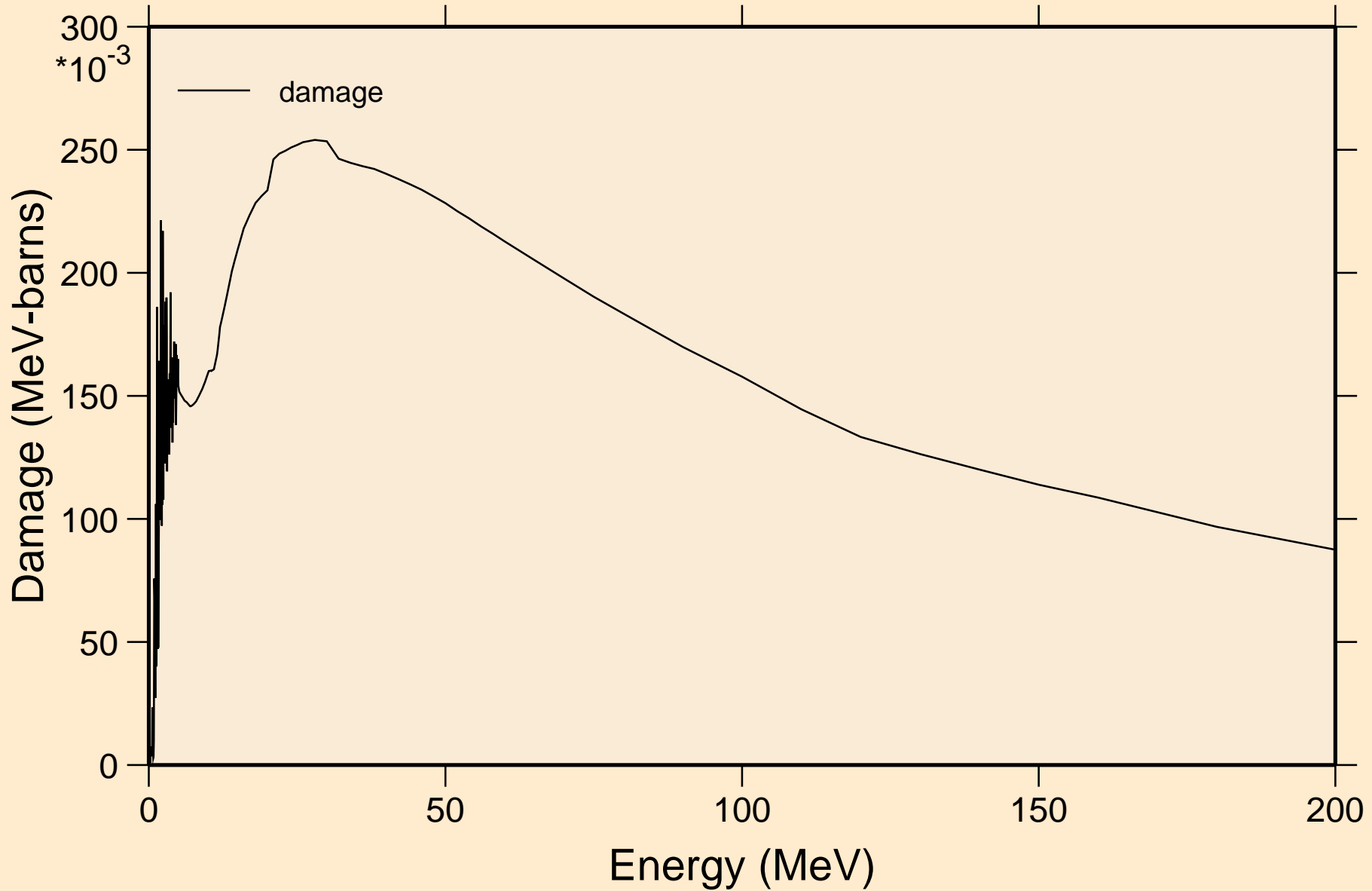


# AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

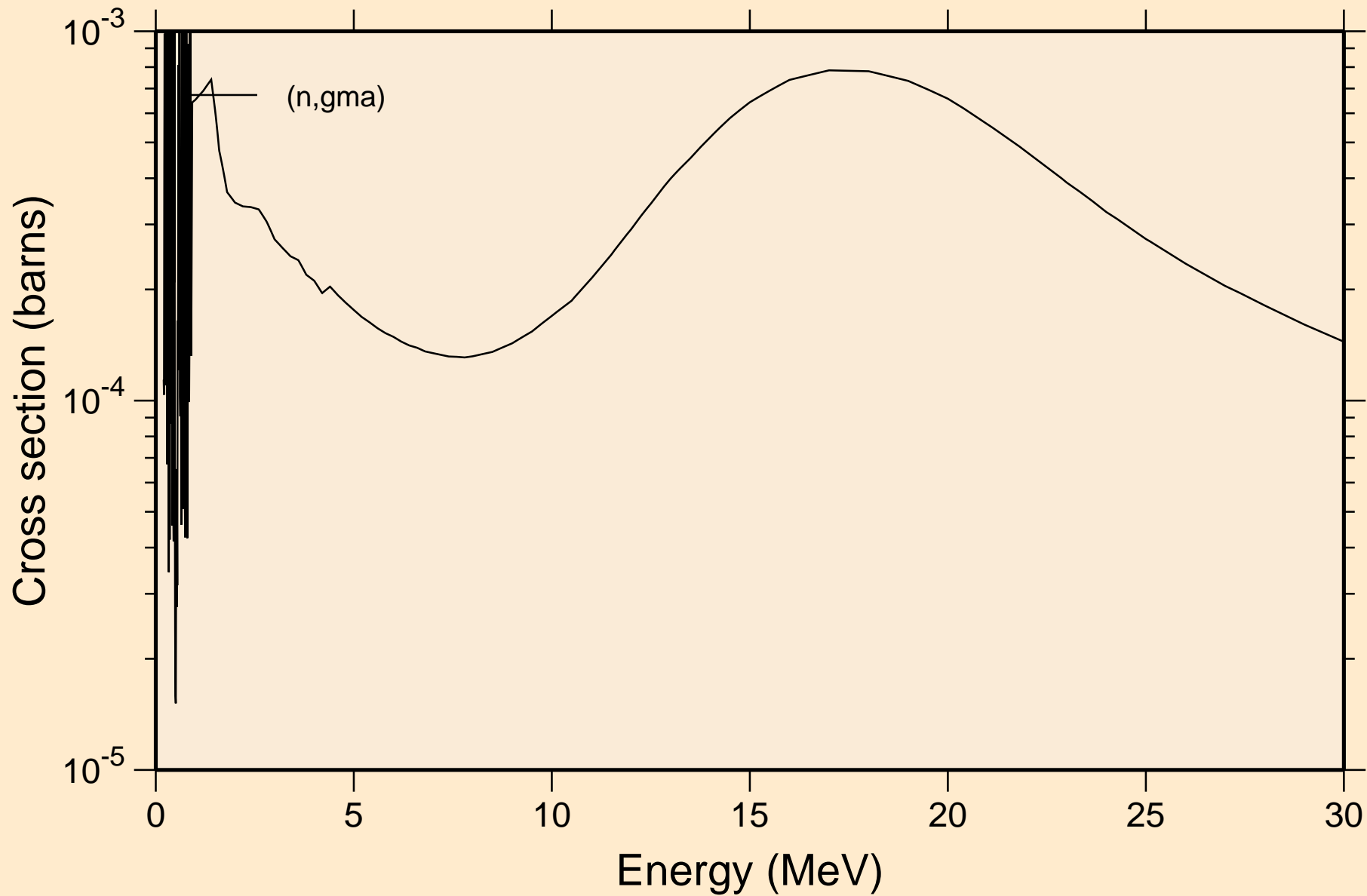
## Heating



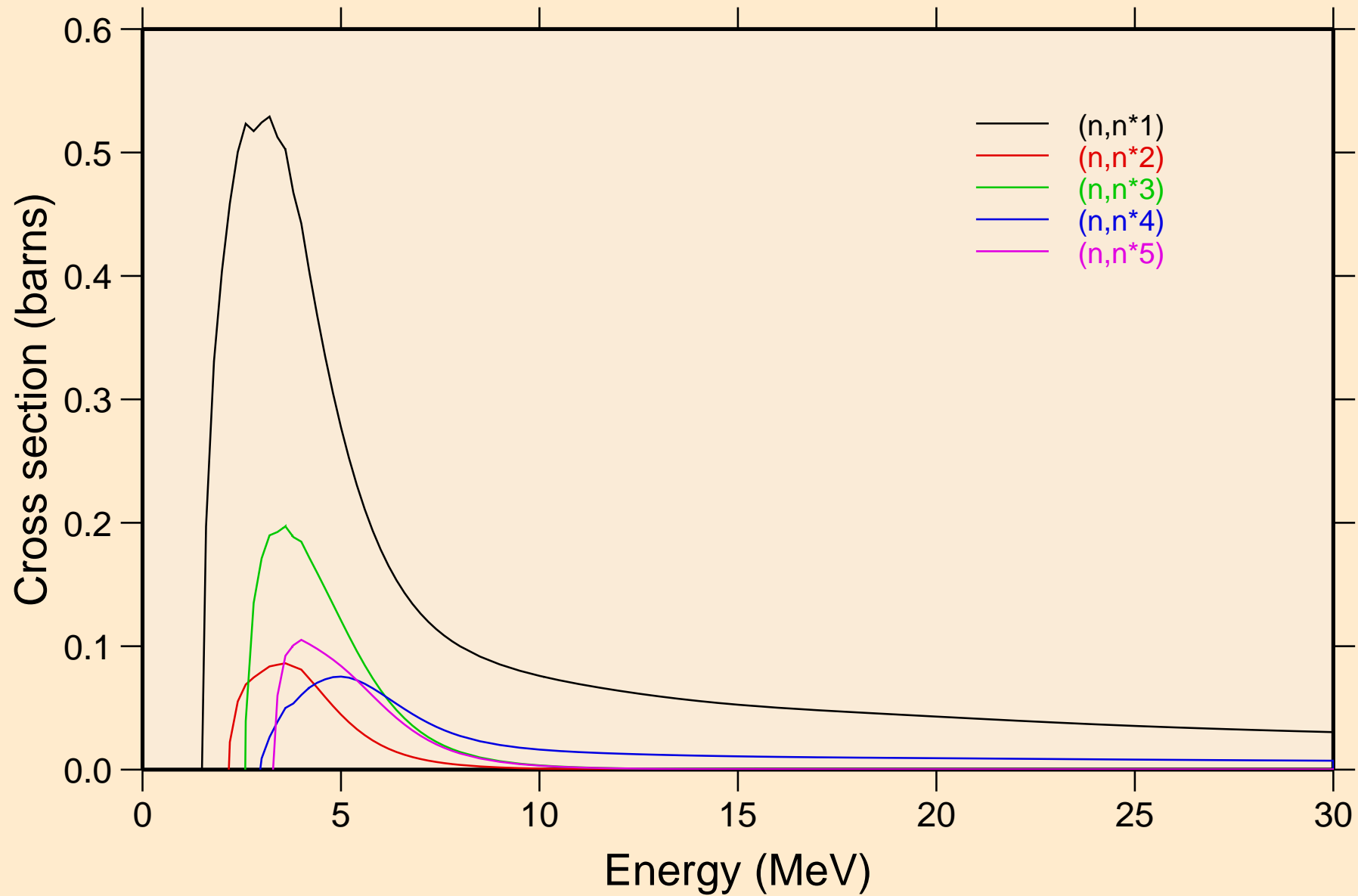
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Damage



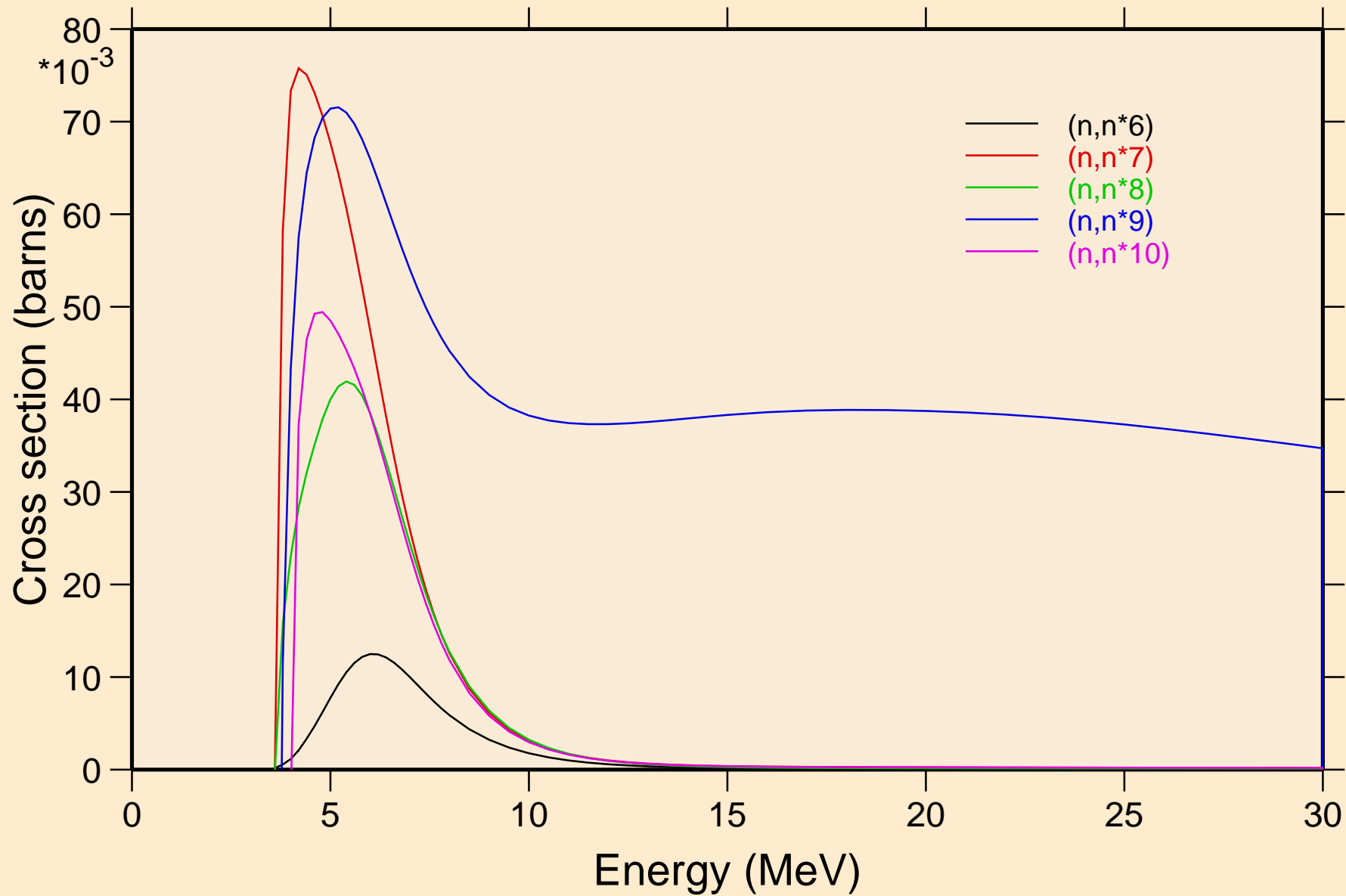
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

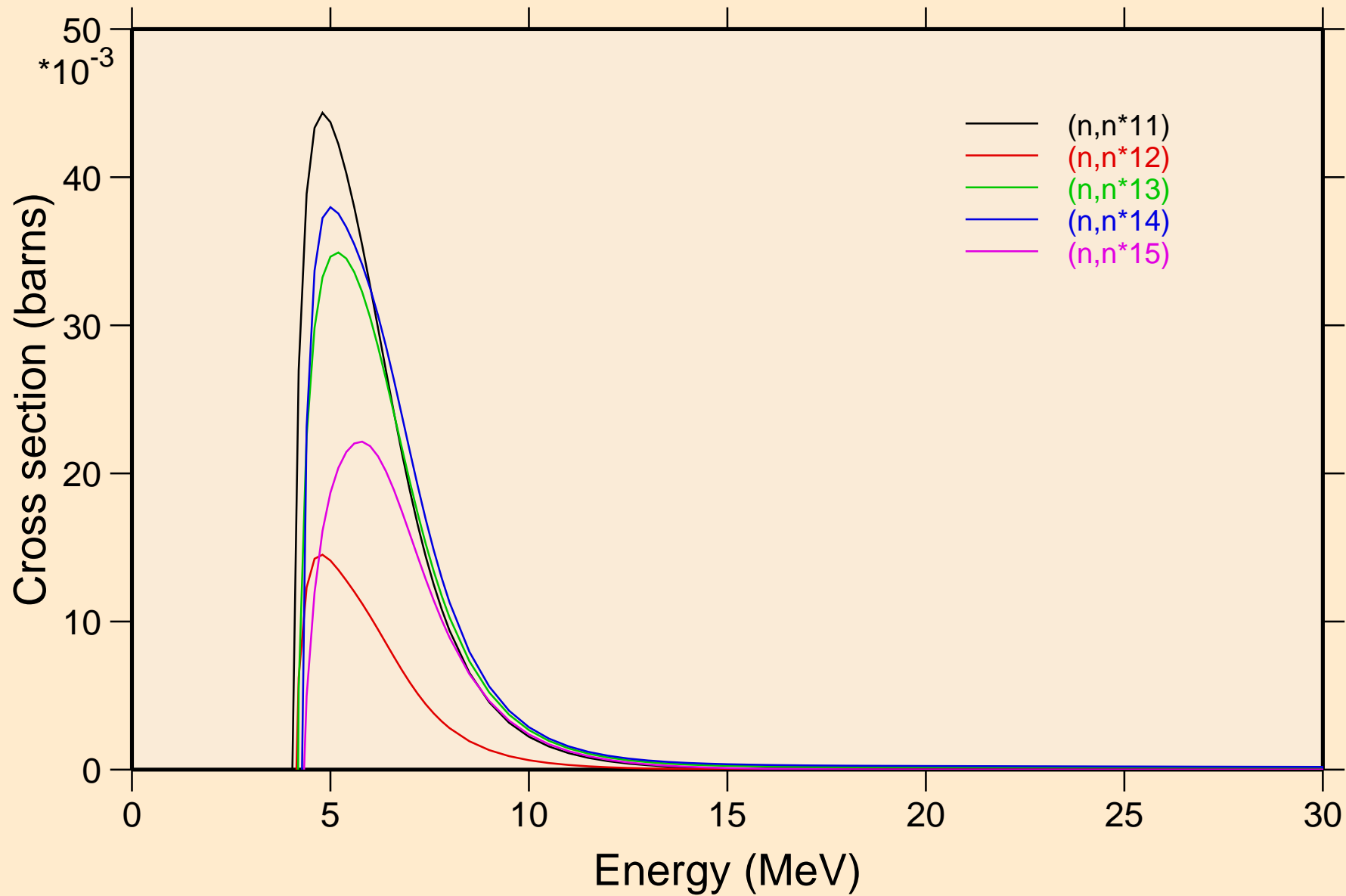


AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

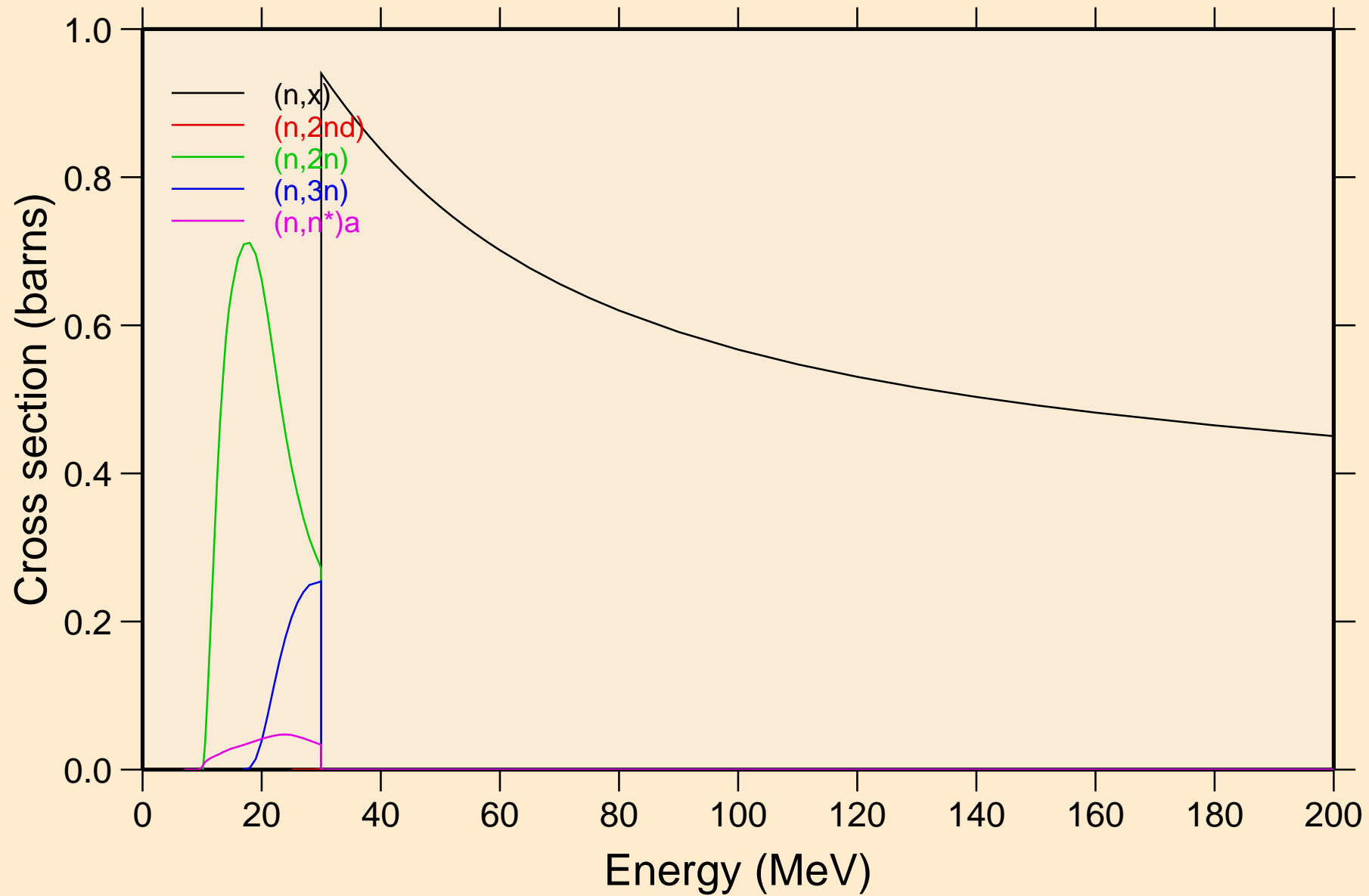




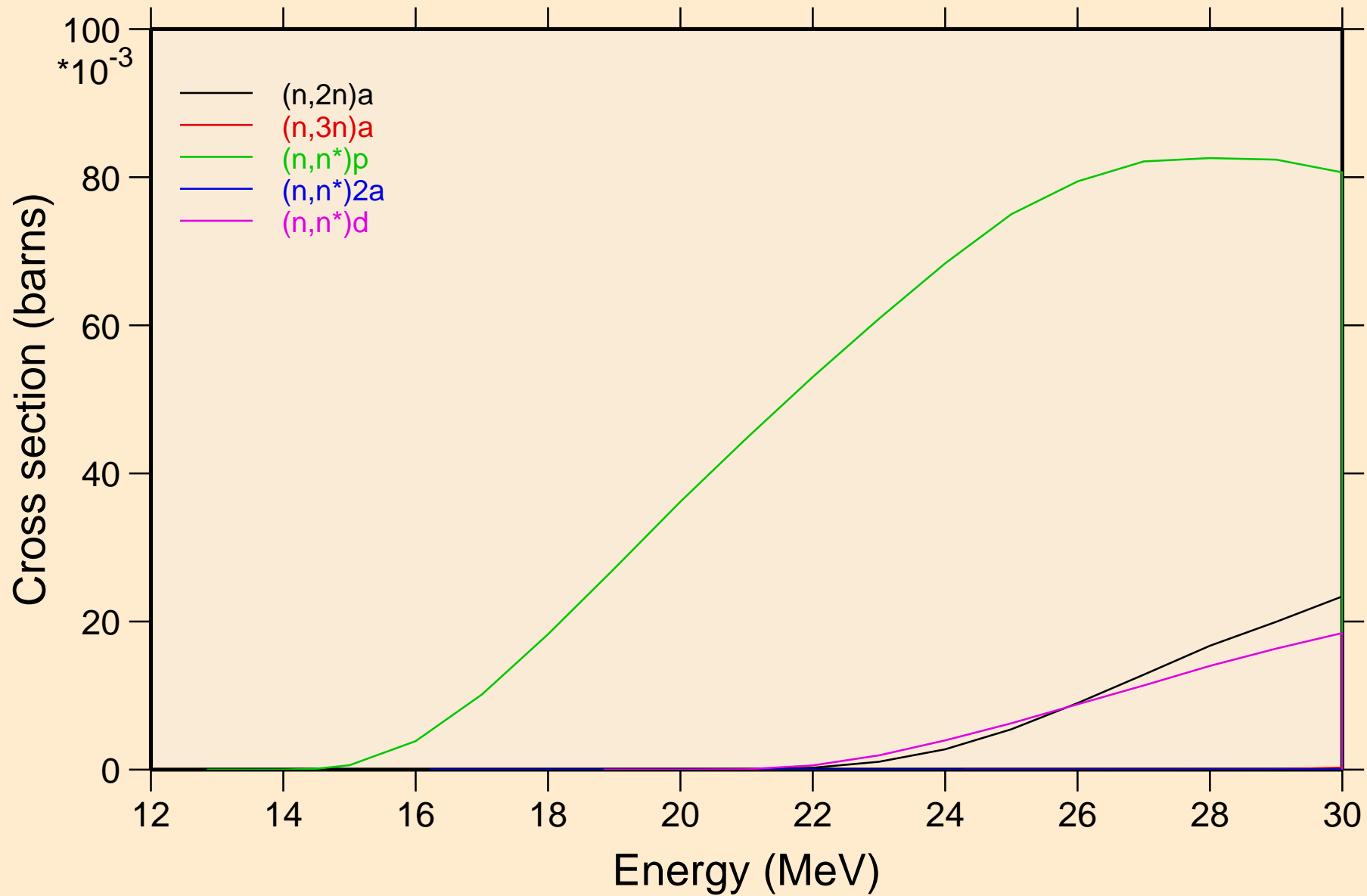
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



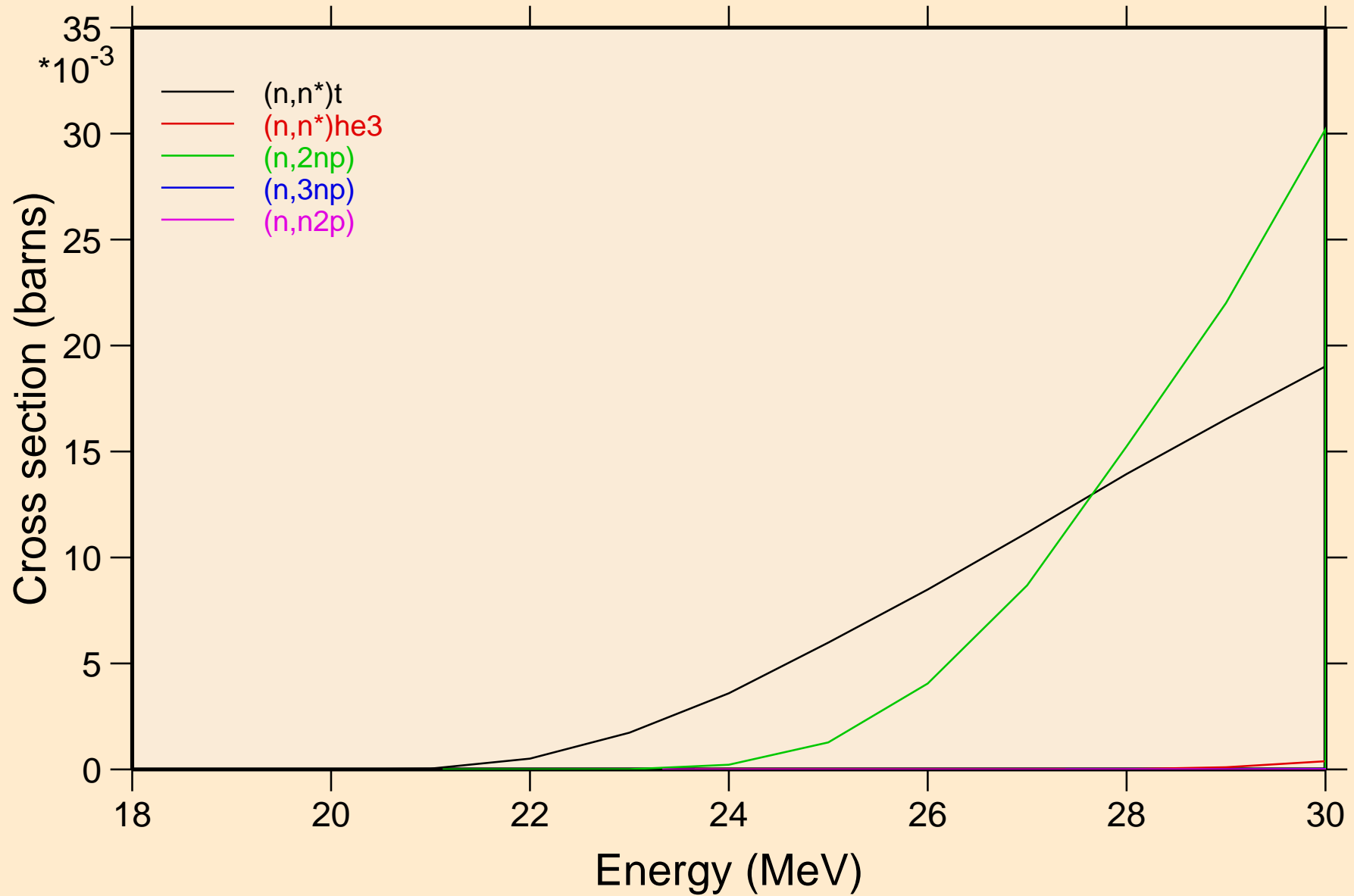
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Threshold reactions



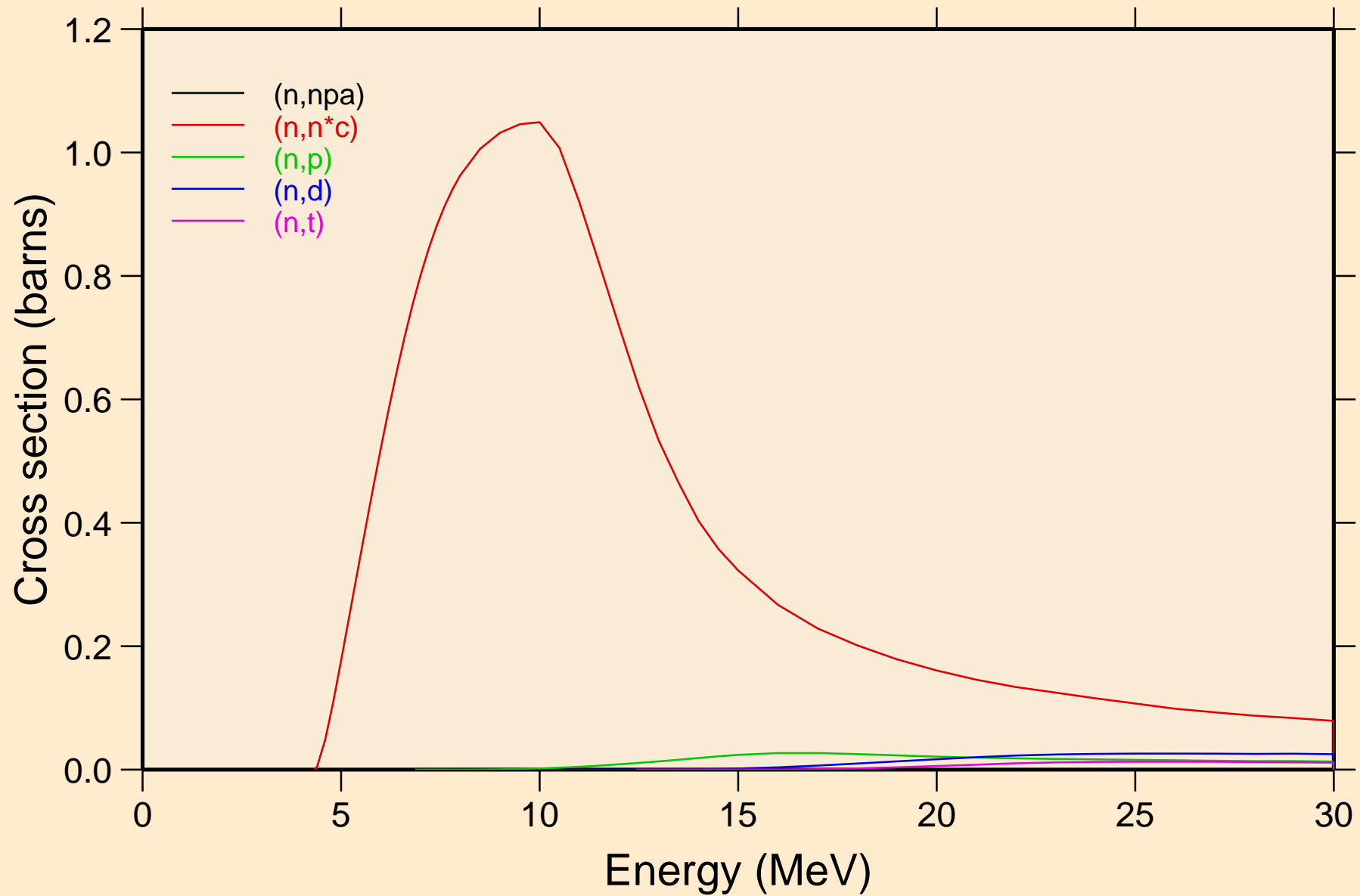
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Threshold reactions



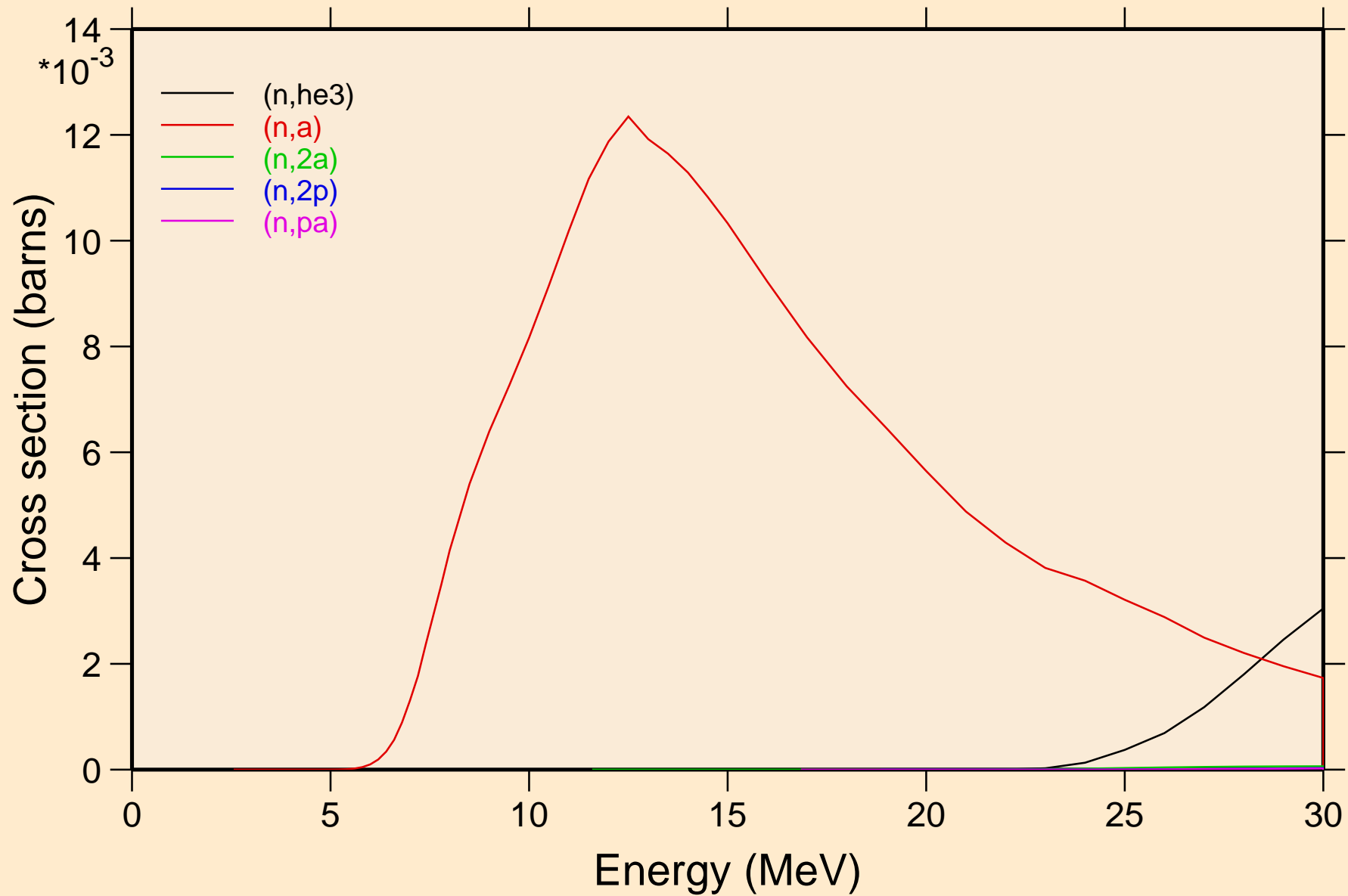
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Threshold reactions



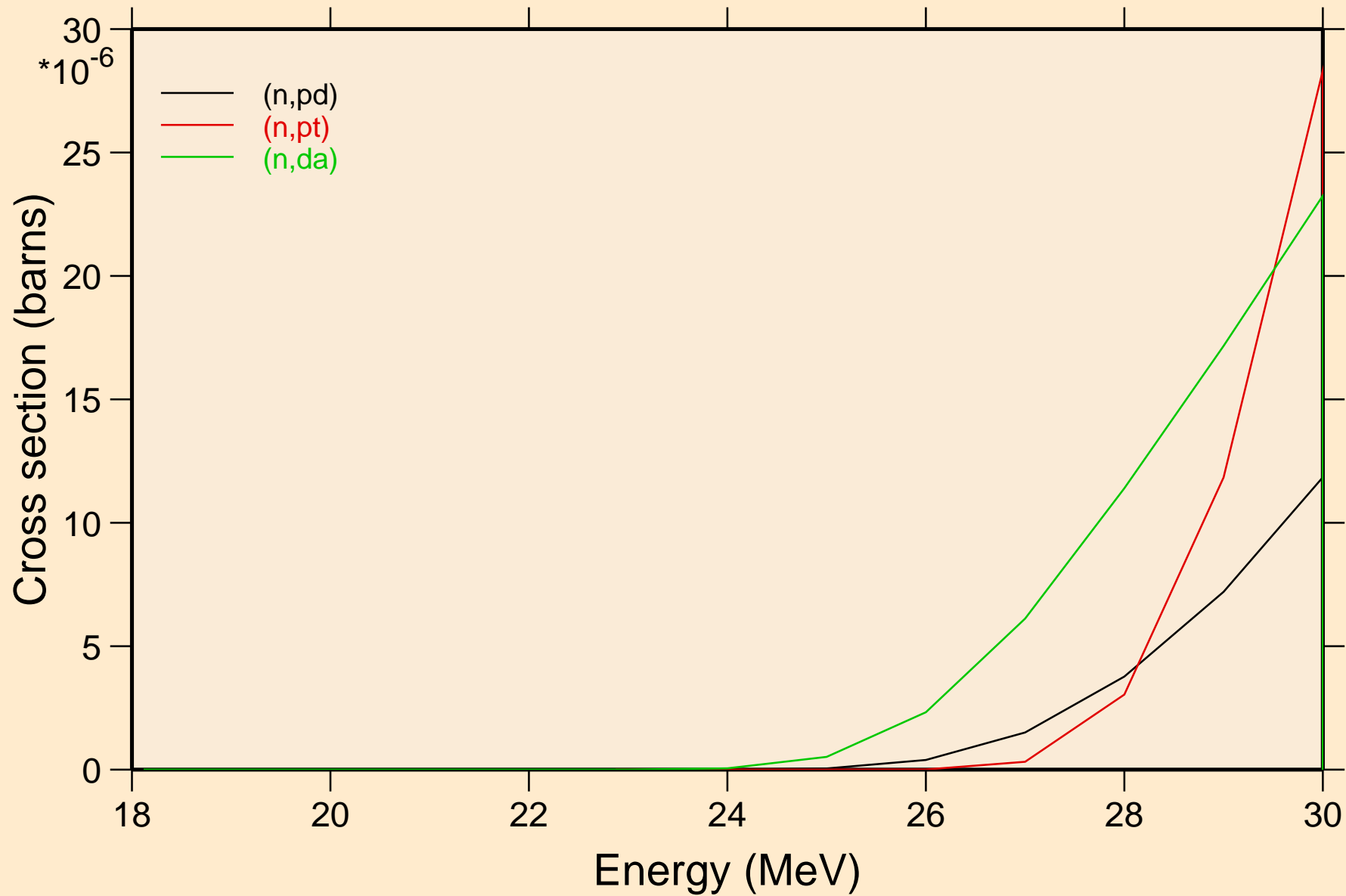
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Threshold reactions



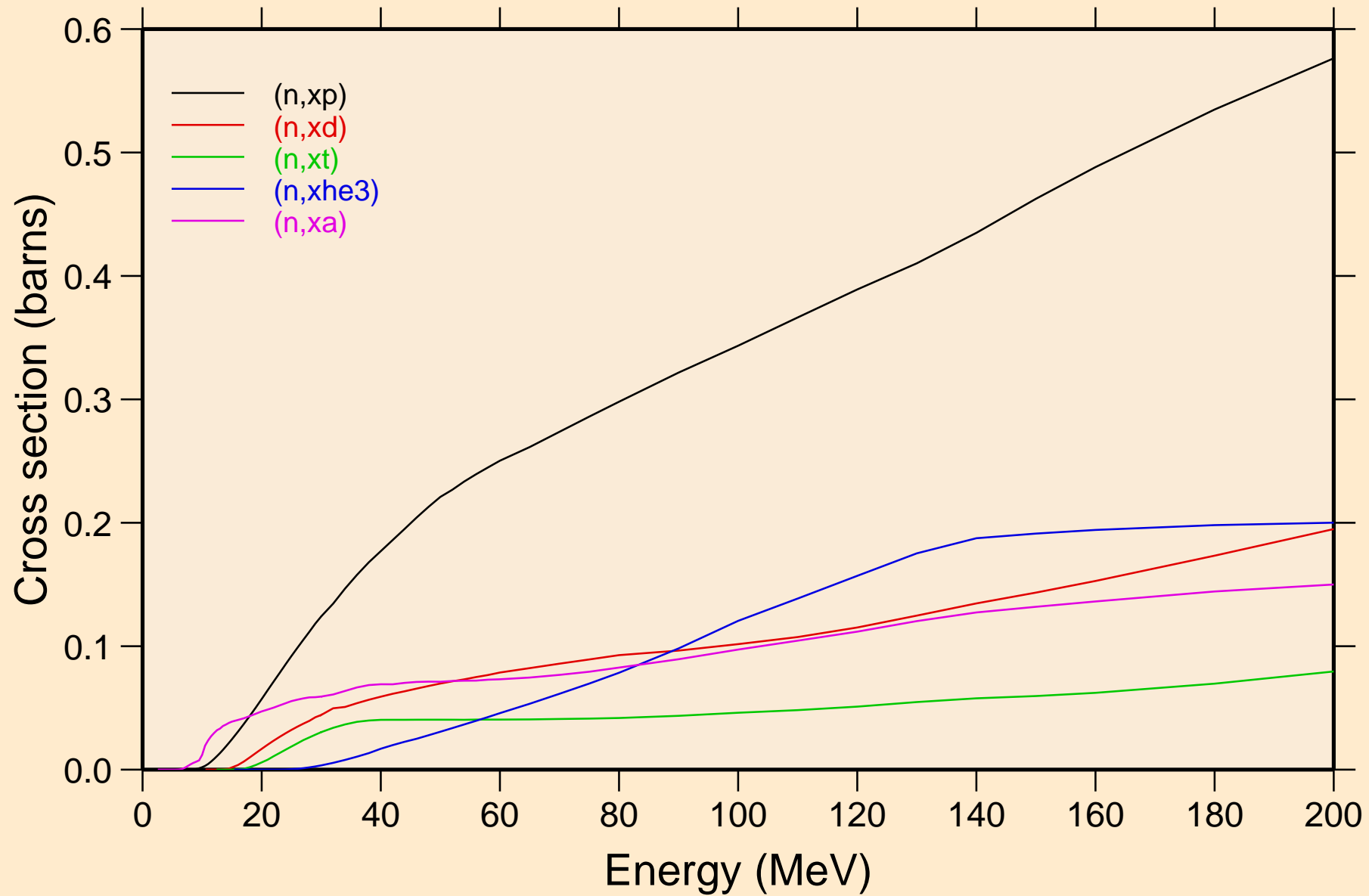
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Threshold reactions



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

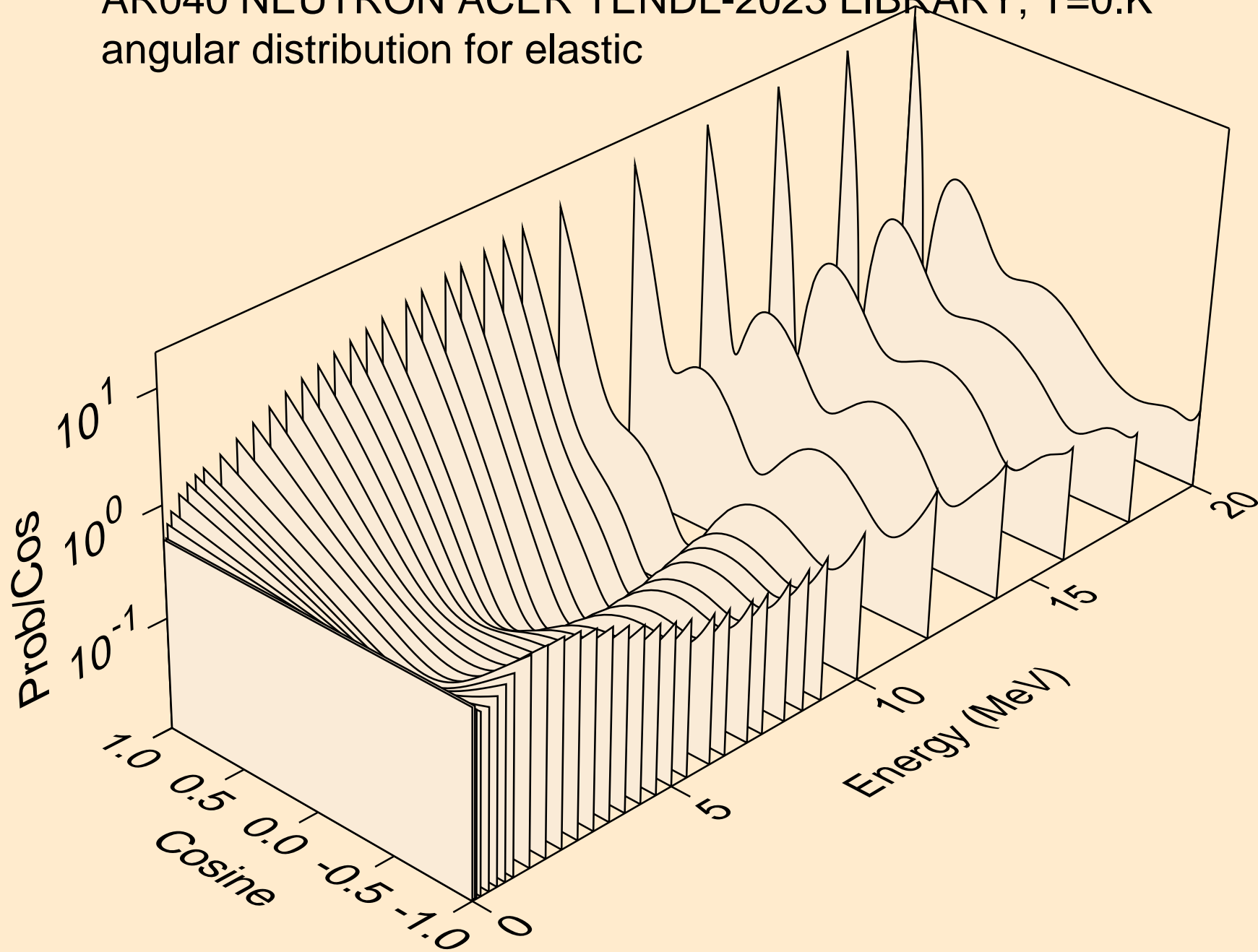


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Threshold reactions

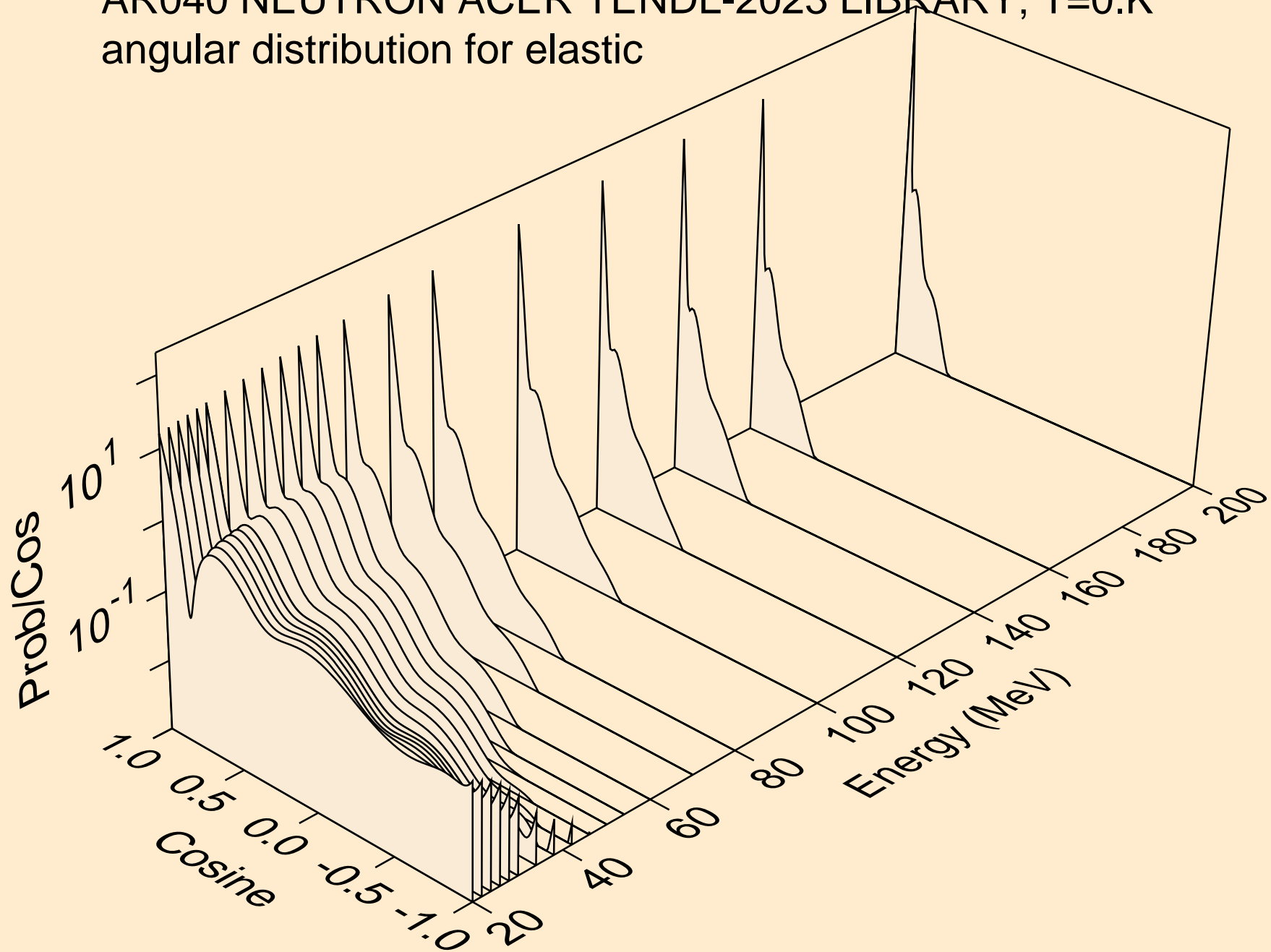




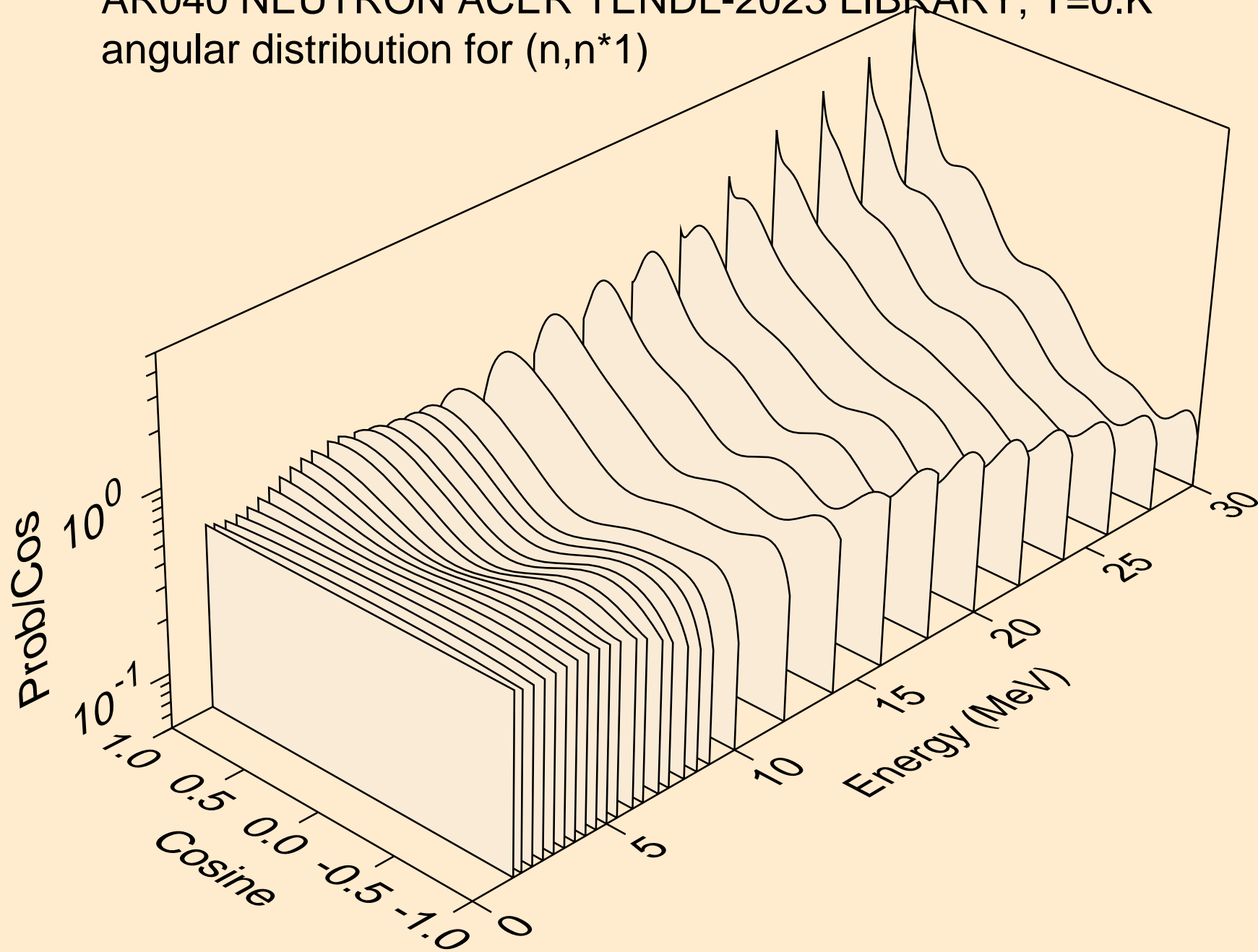
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angular distribution for elastic



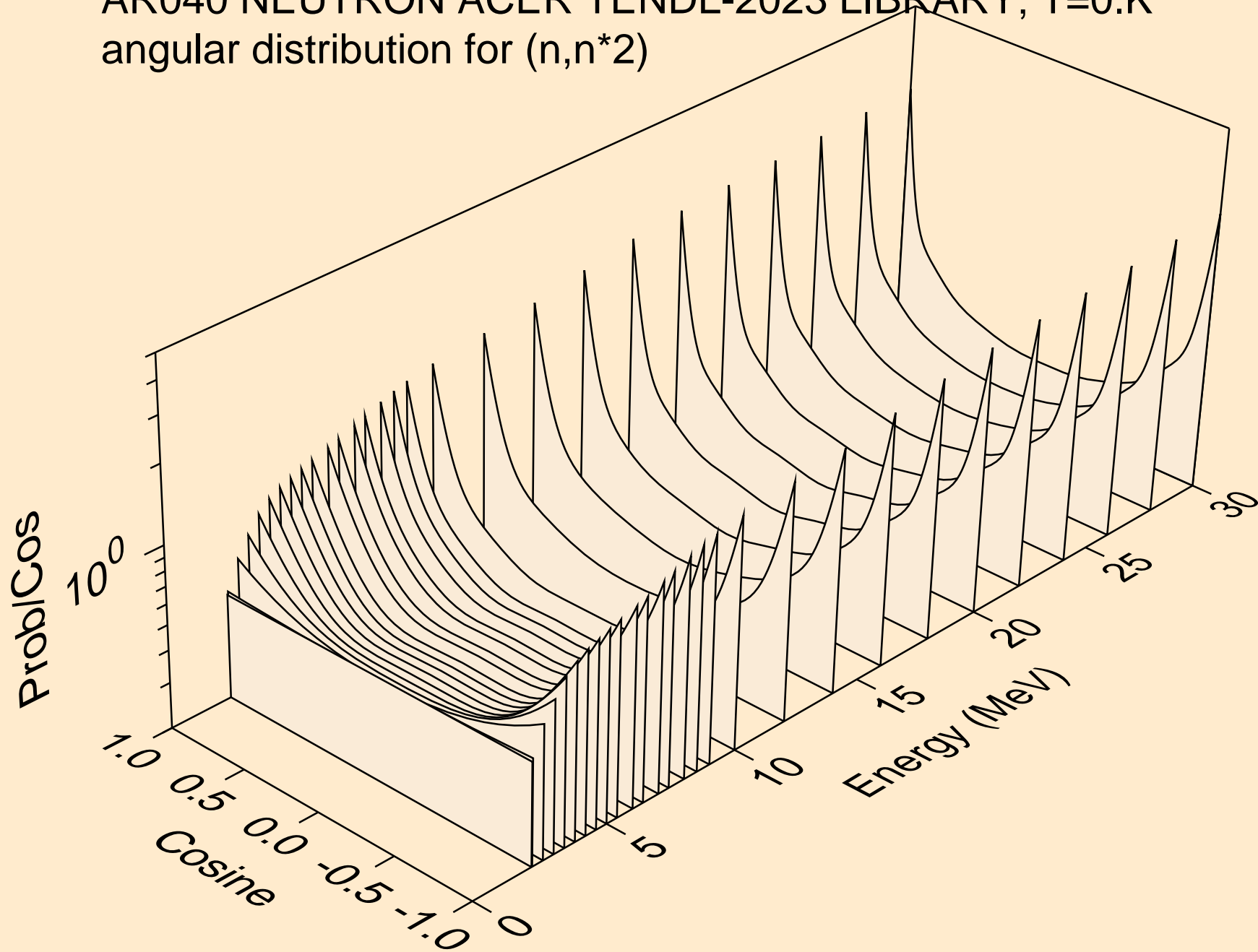
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angular distribution for elastic



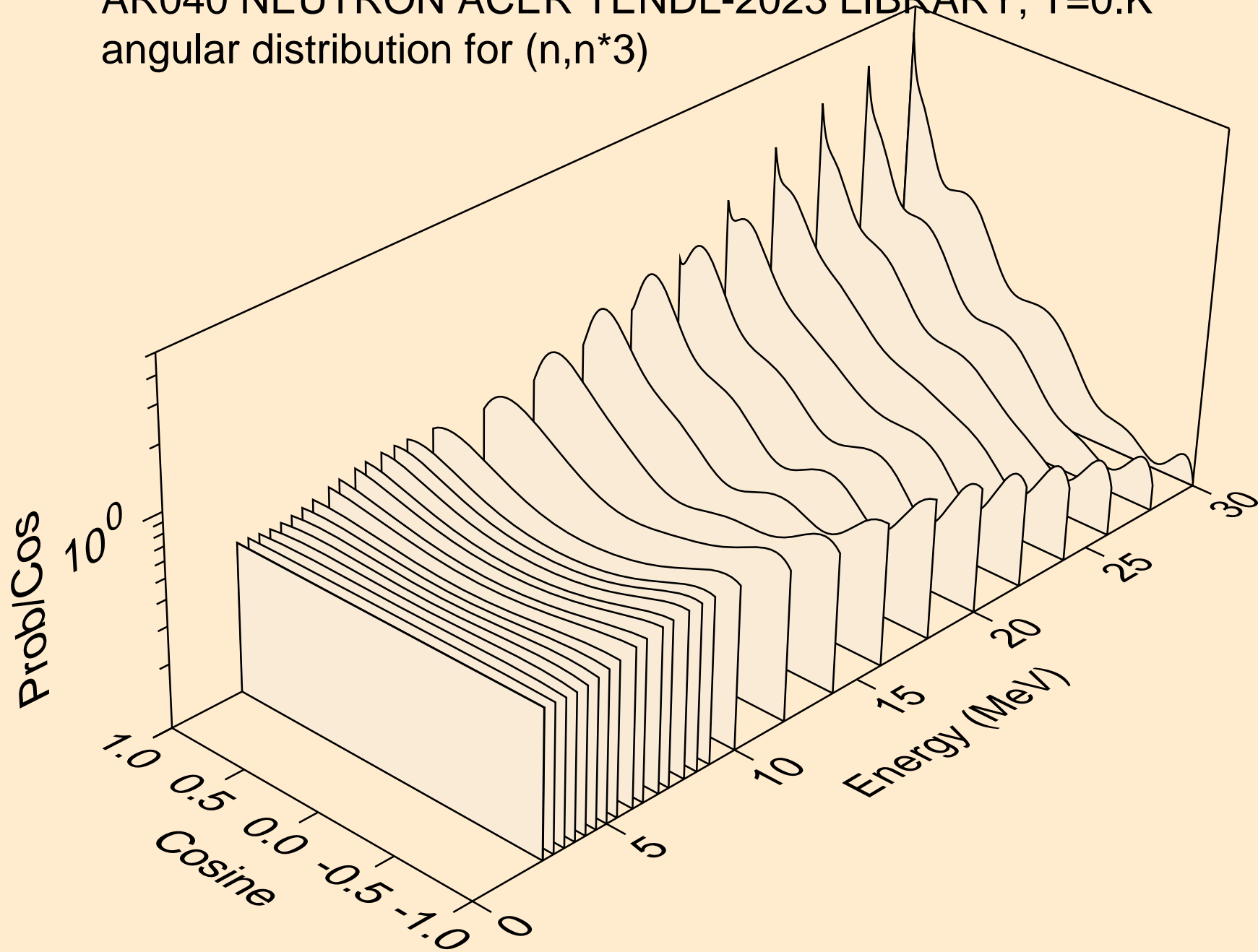
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angular distribution for (n,n\*1)



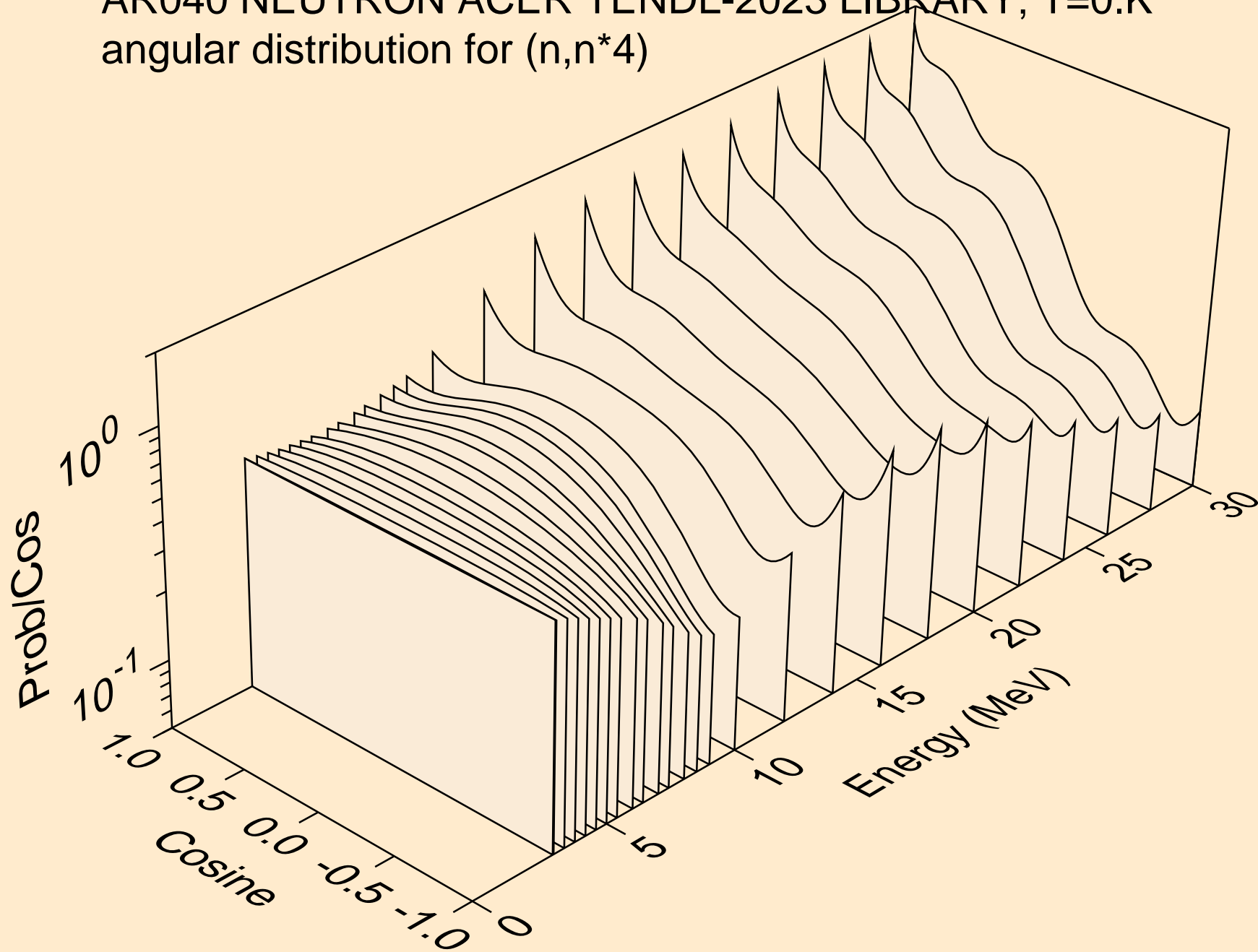
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angular distribution for (n,n\*2)



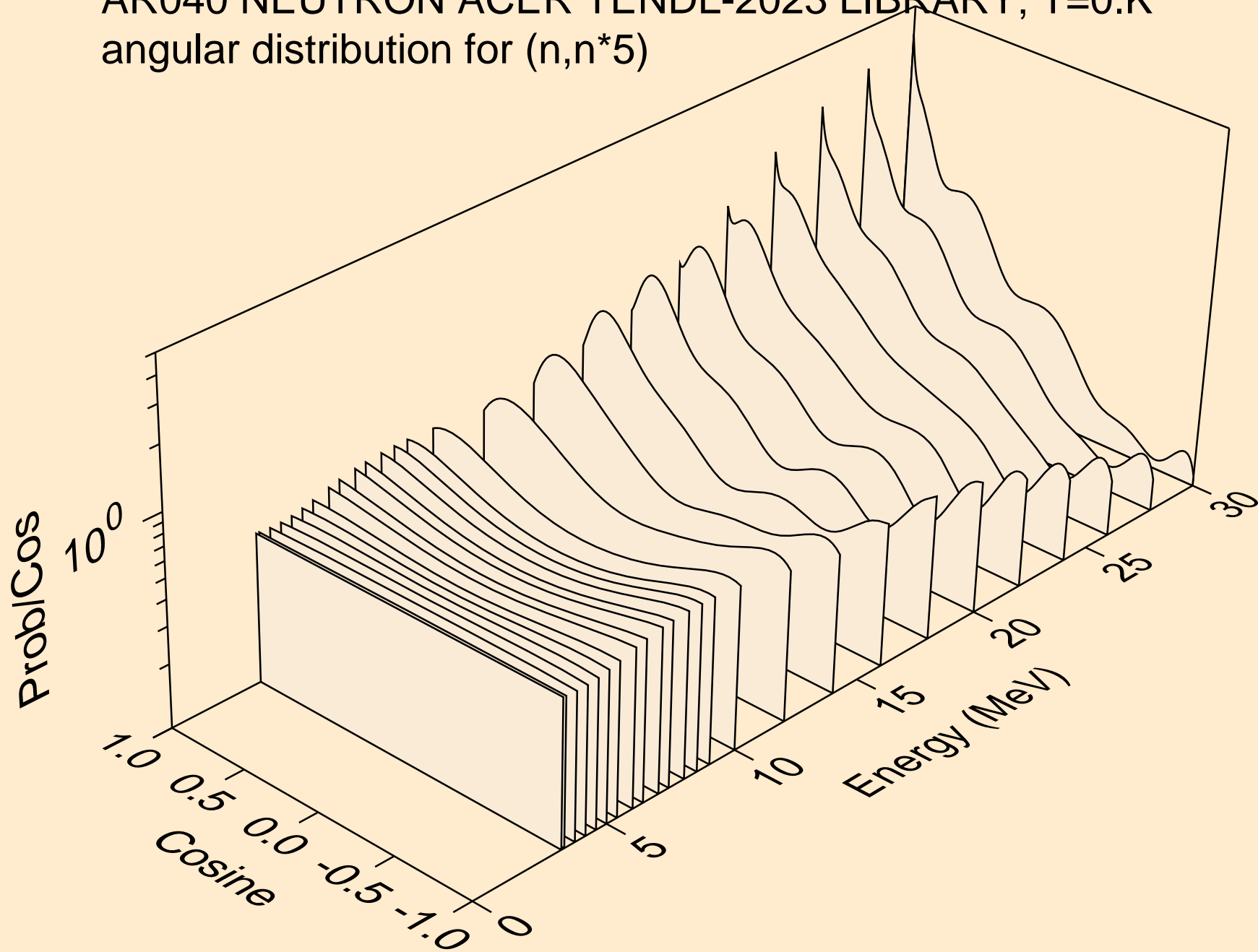
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angular distribution for (n,n\*3)



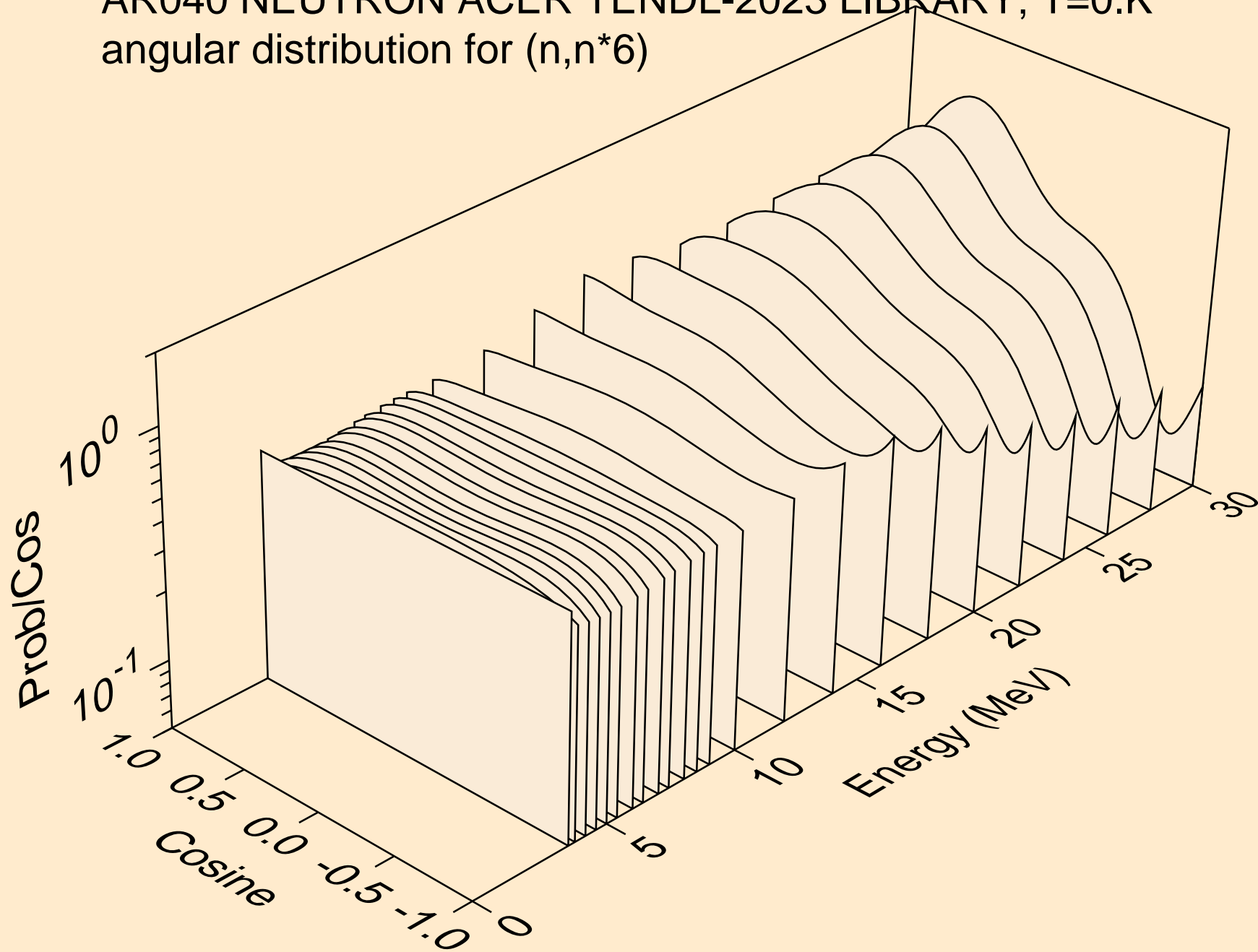
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)

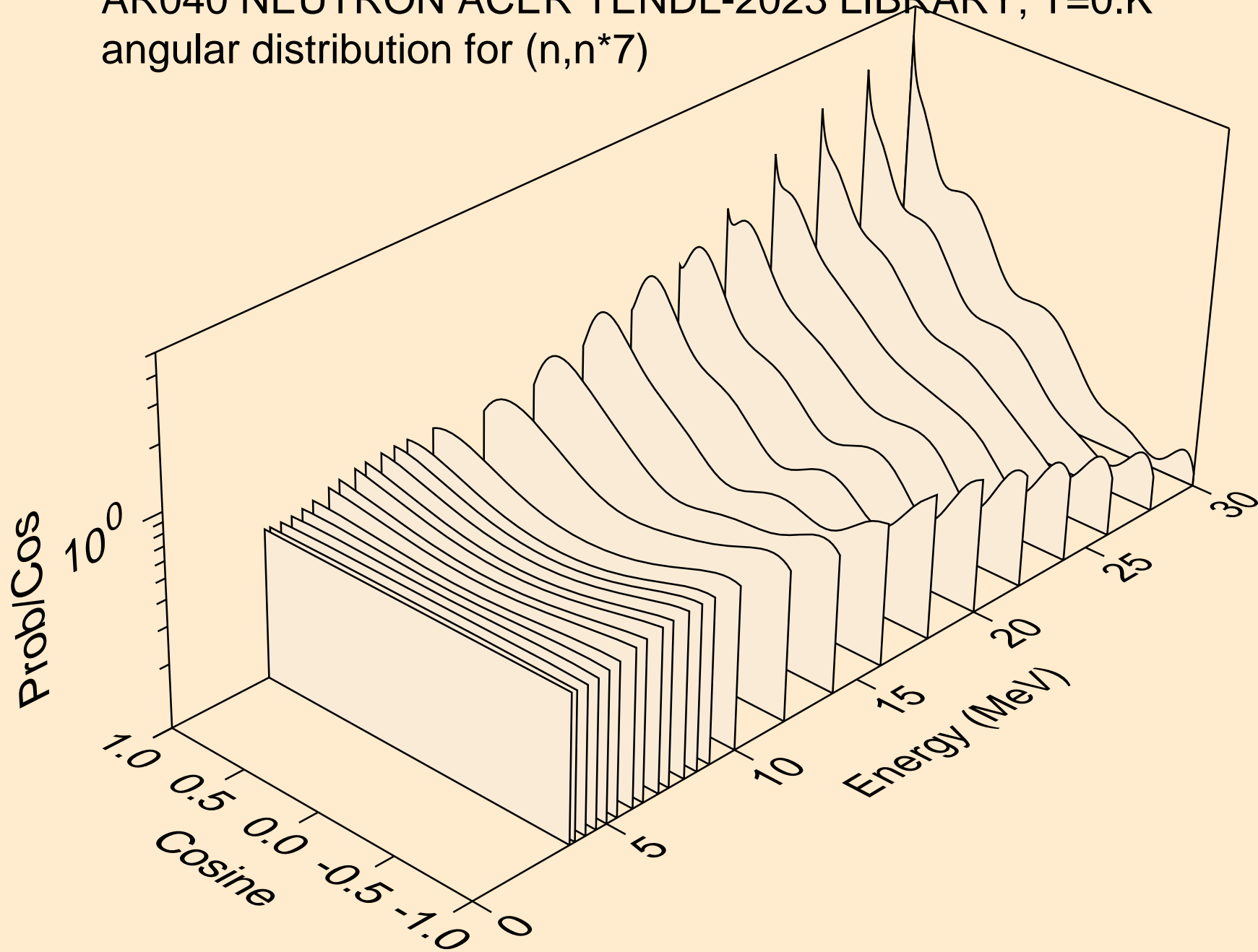


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angular distribution for (n,n\*6)

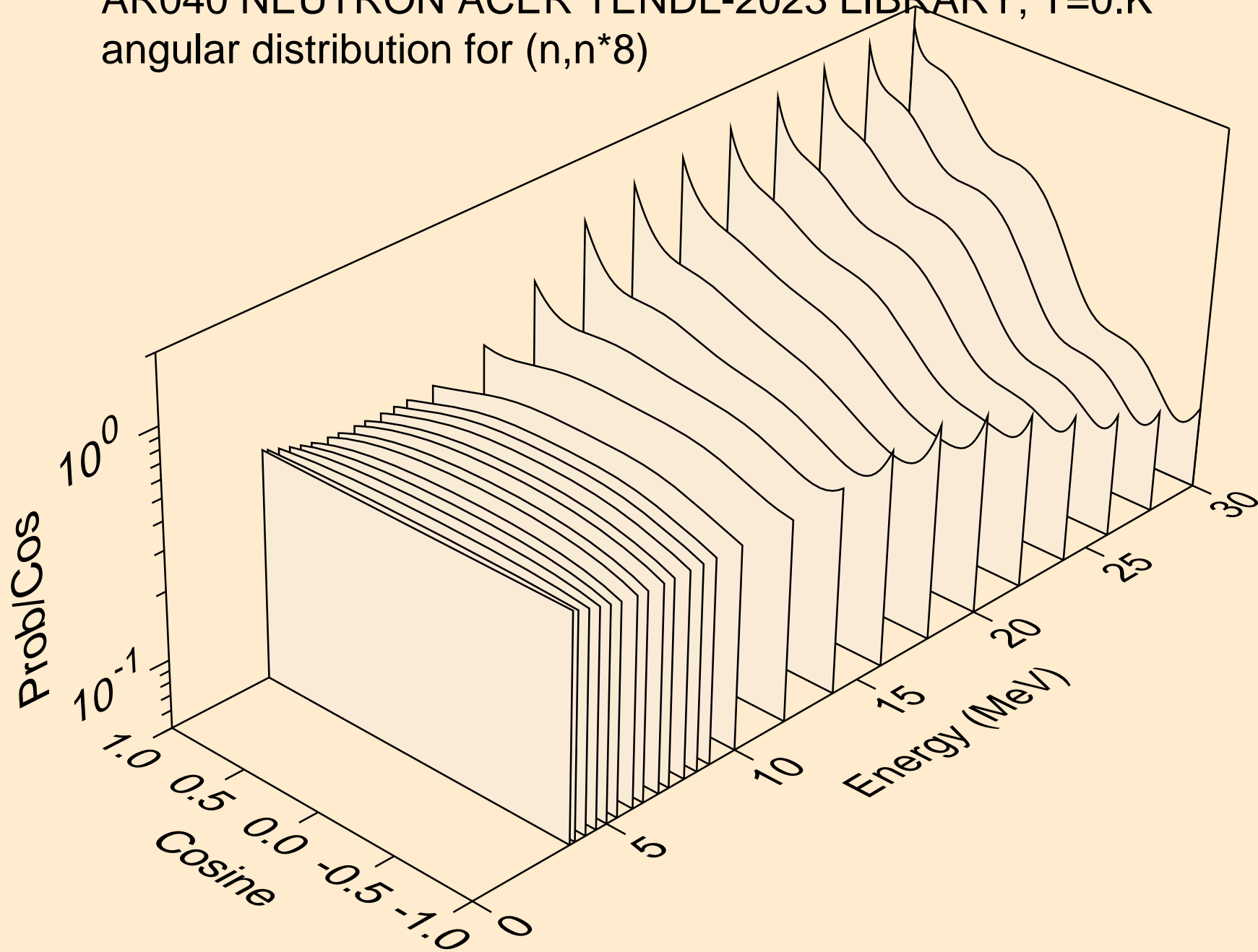




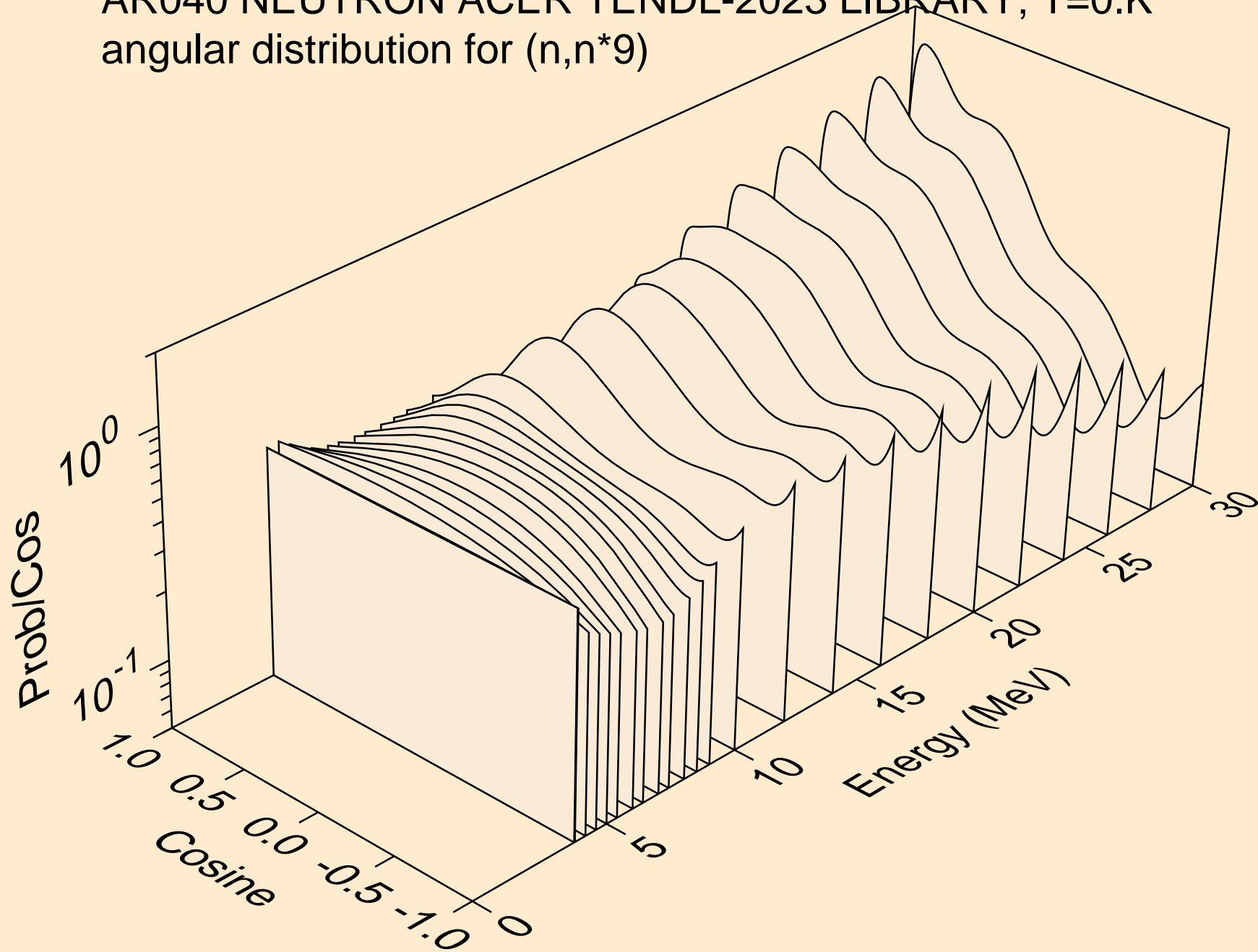
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angular distribution for (n,n\*7)



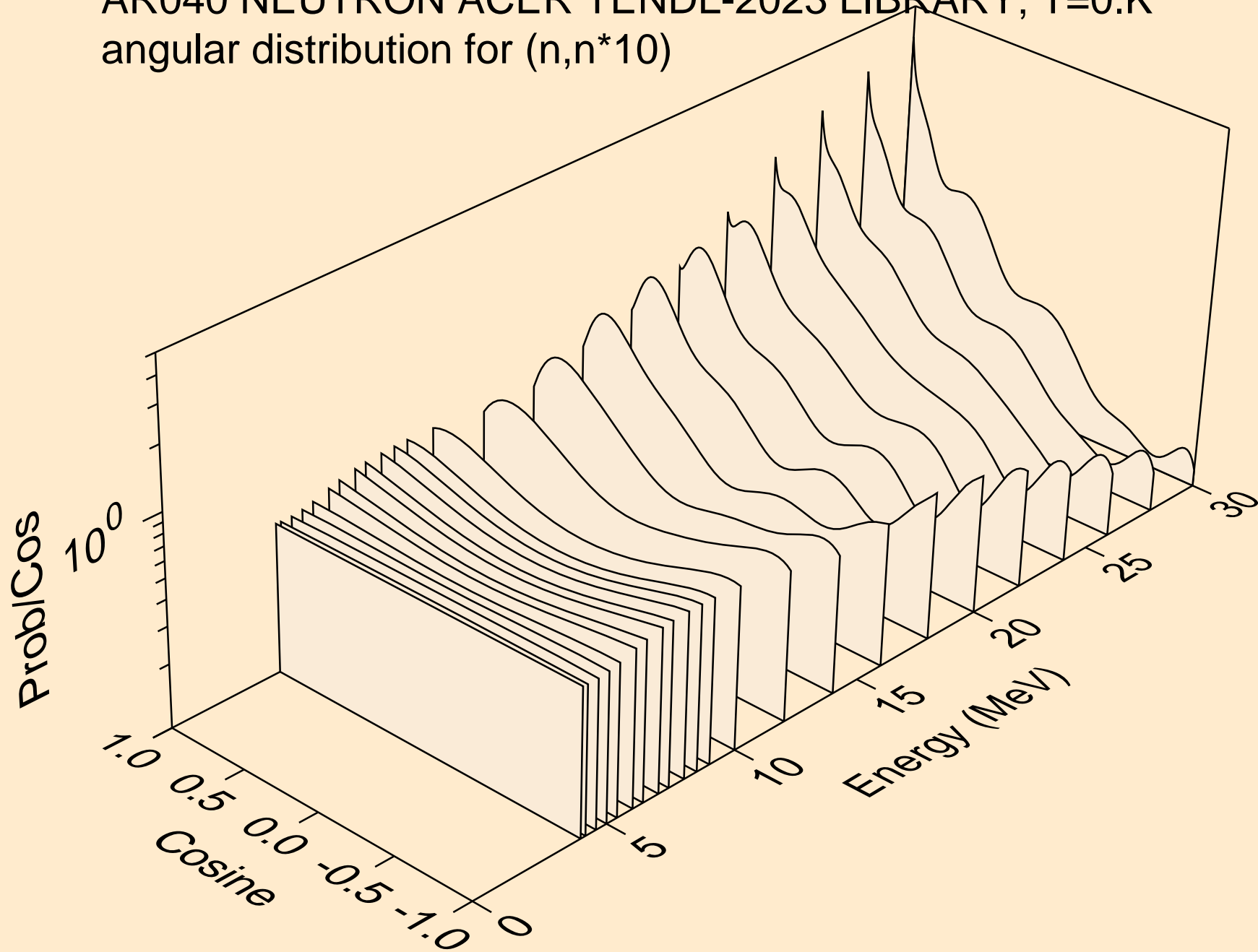
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angular distribution for (n,n\*8)



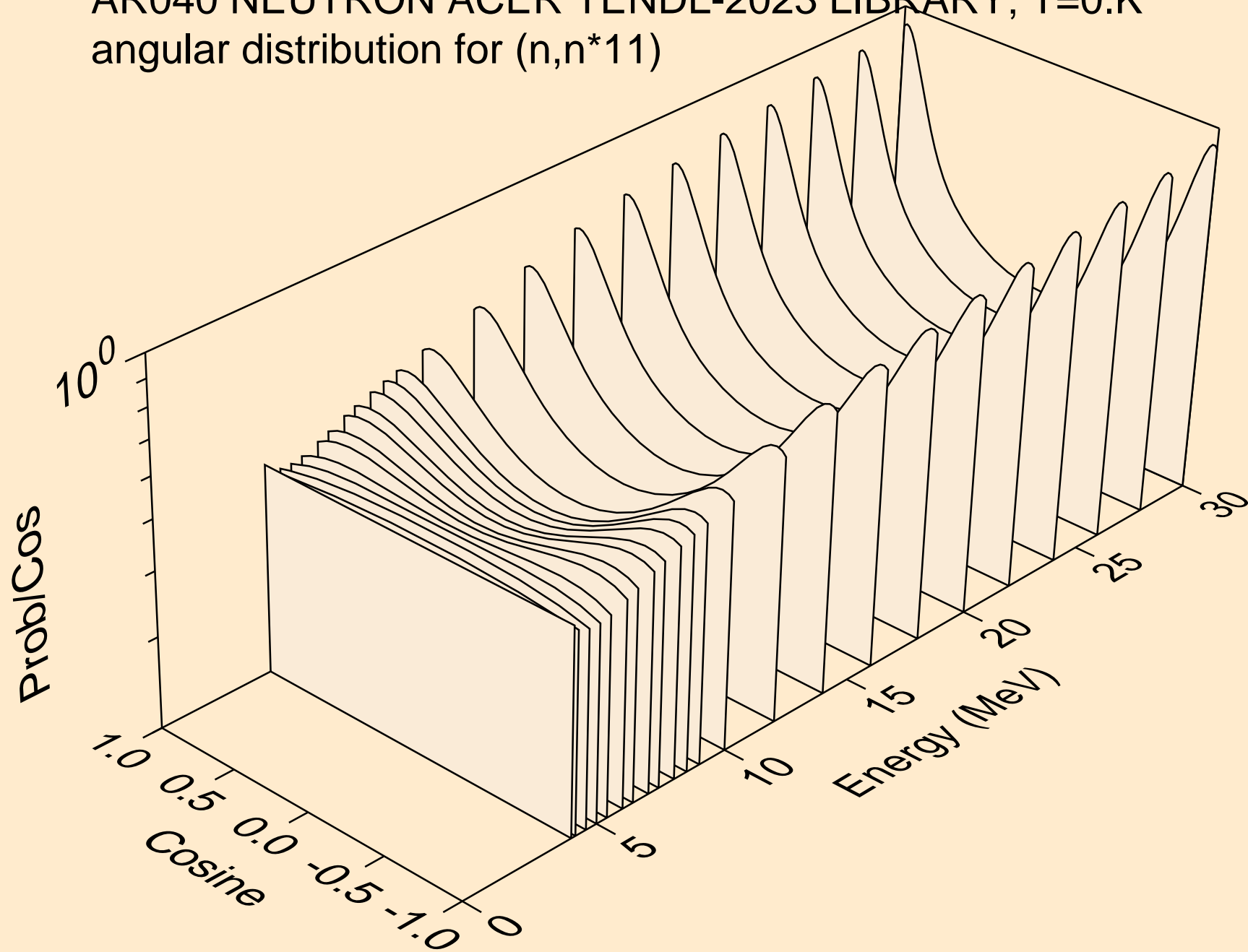
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angular distribution for (n,n\*9)



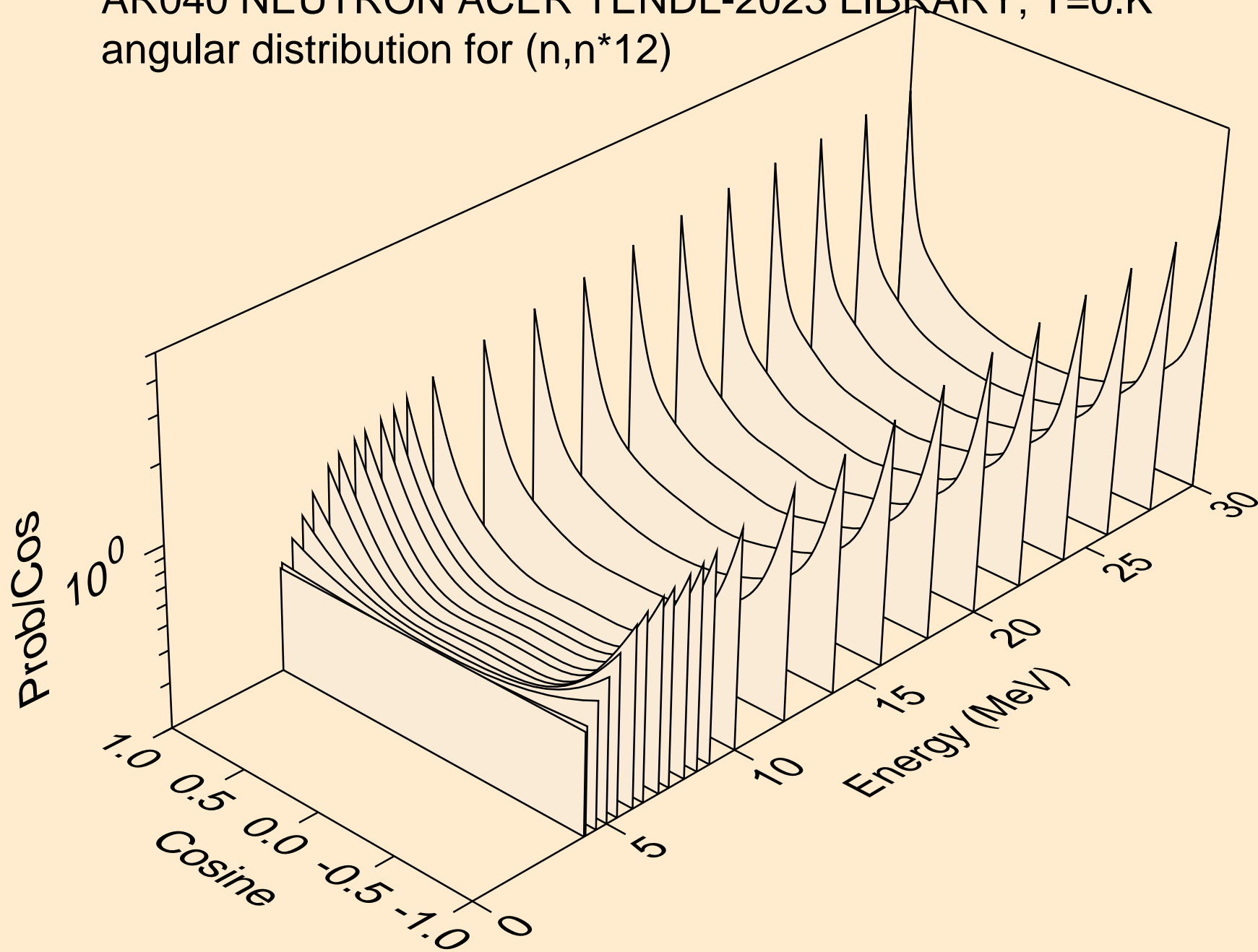
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angular distribution for (n,n\*10)



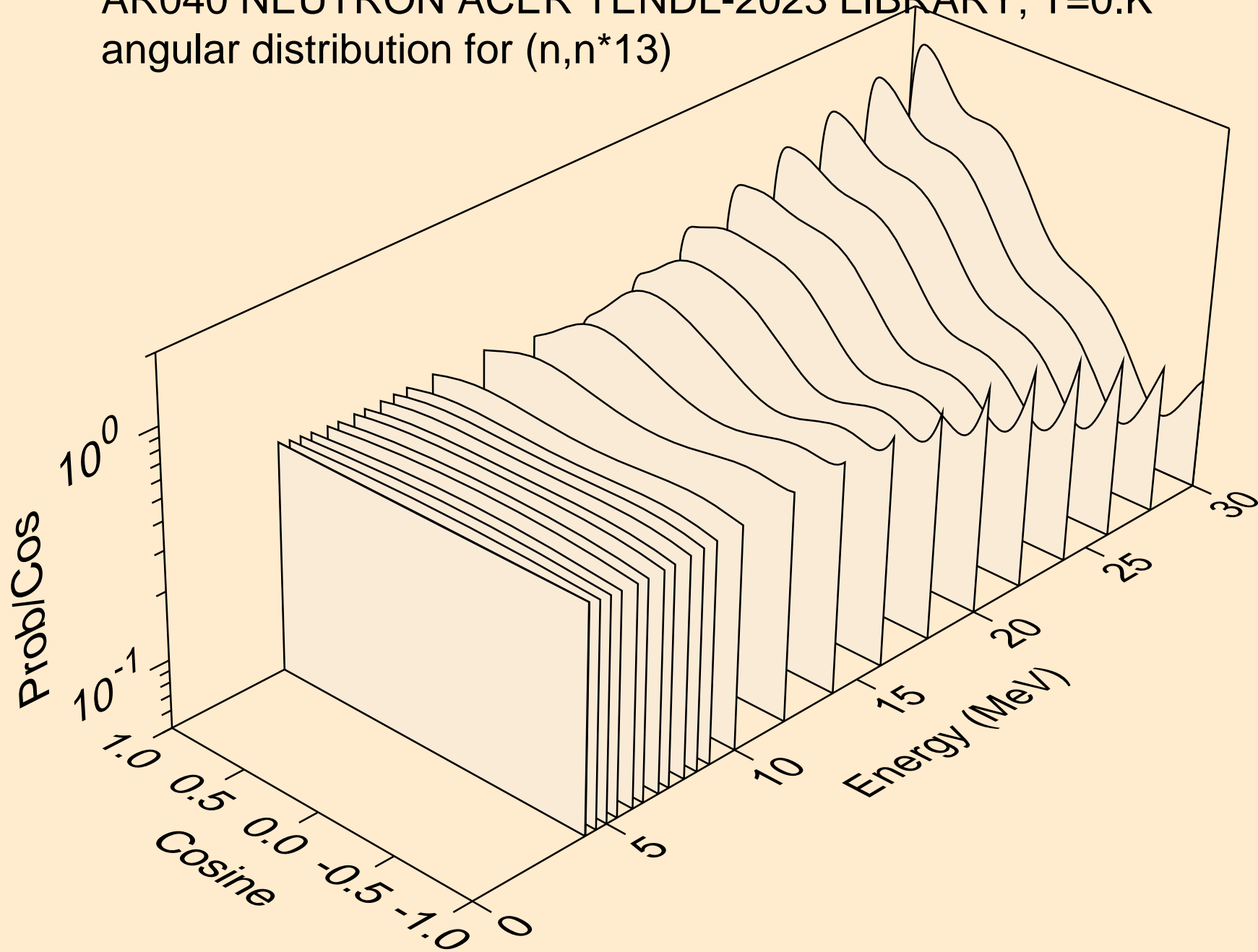
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angular distribution for (n,n\*11)



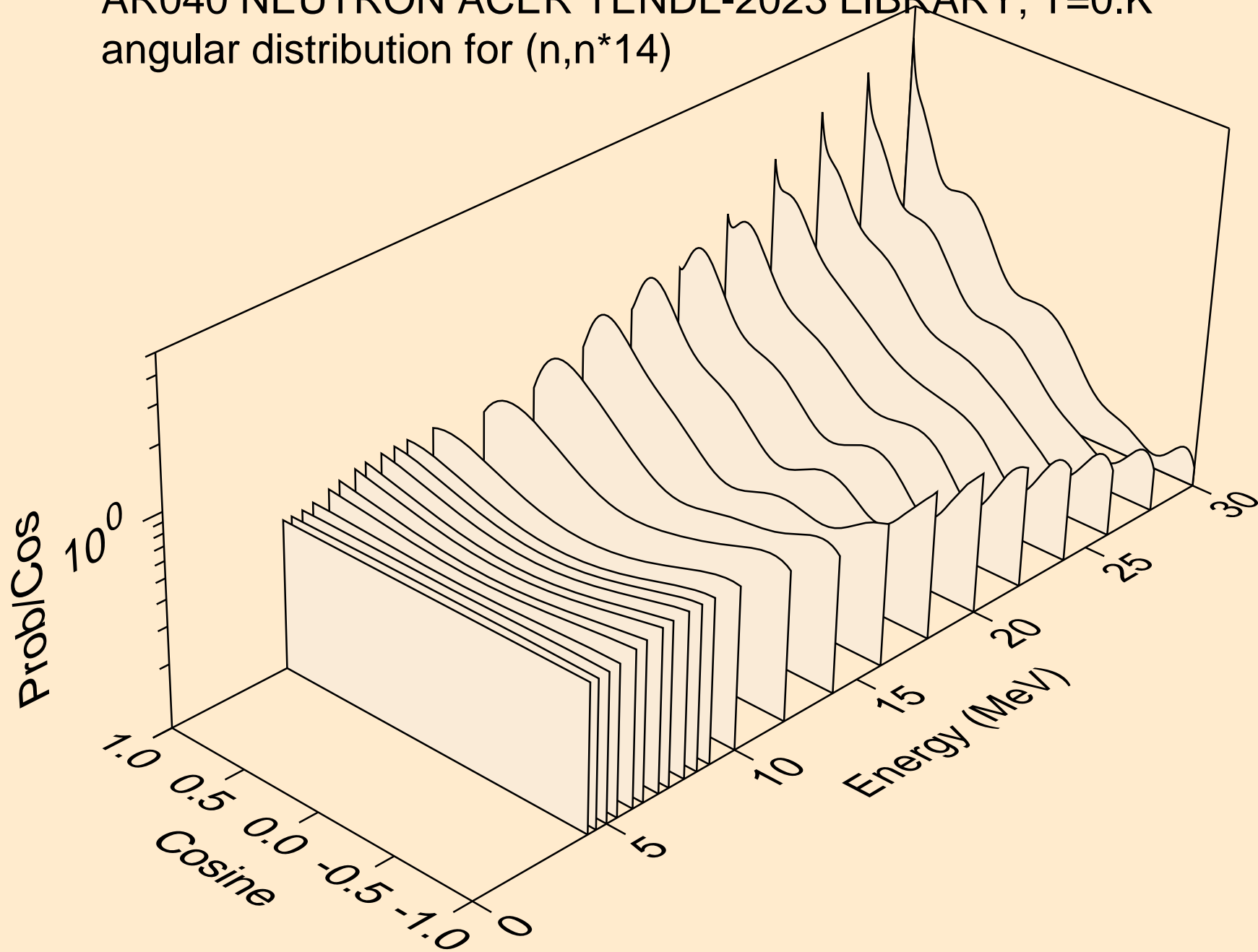
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angular distribution for (n,n\*12)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)

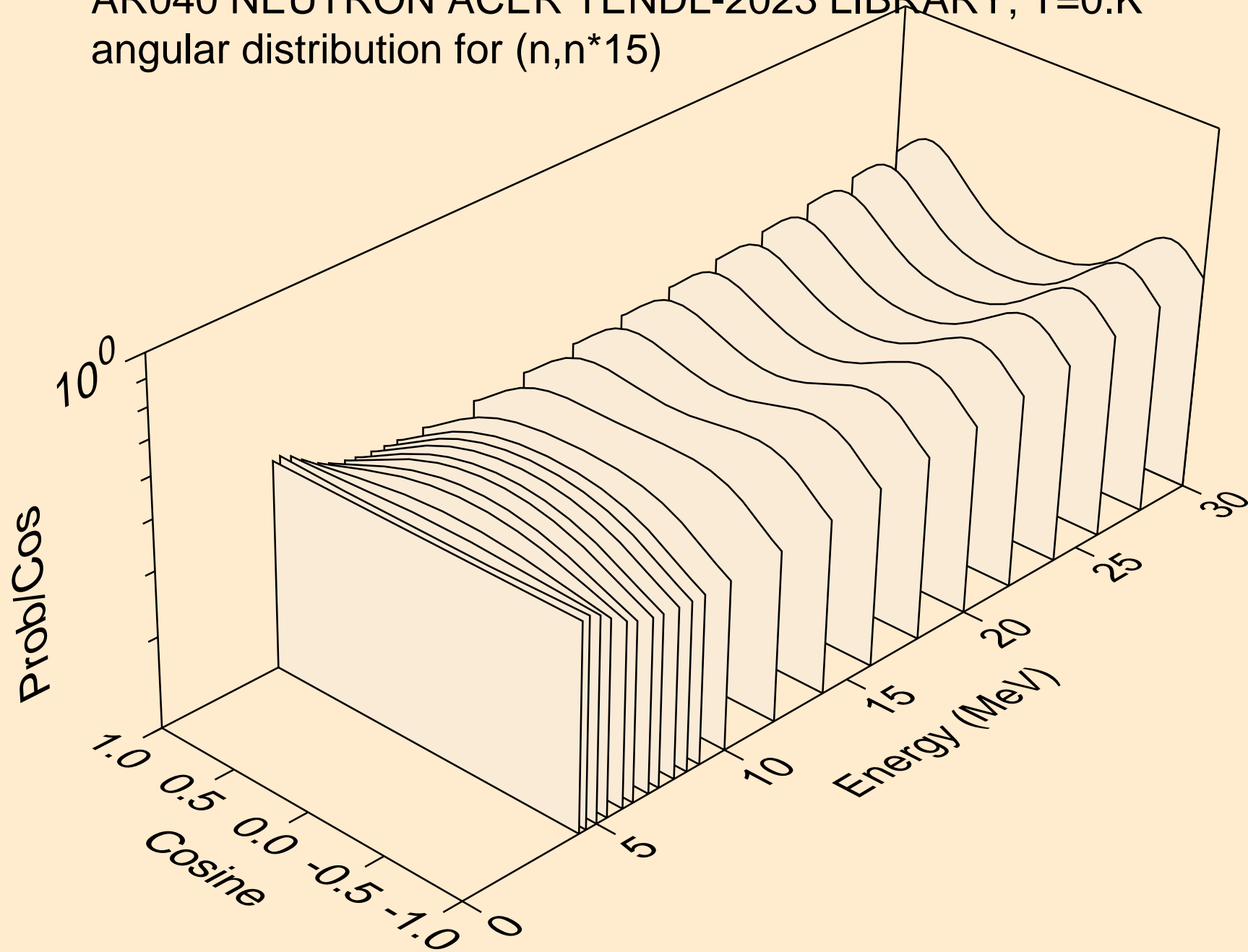


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angular distribution for (n,n\*14)

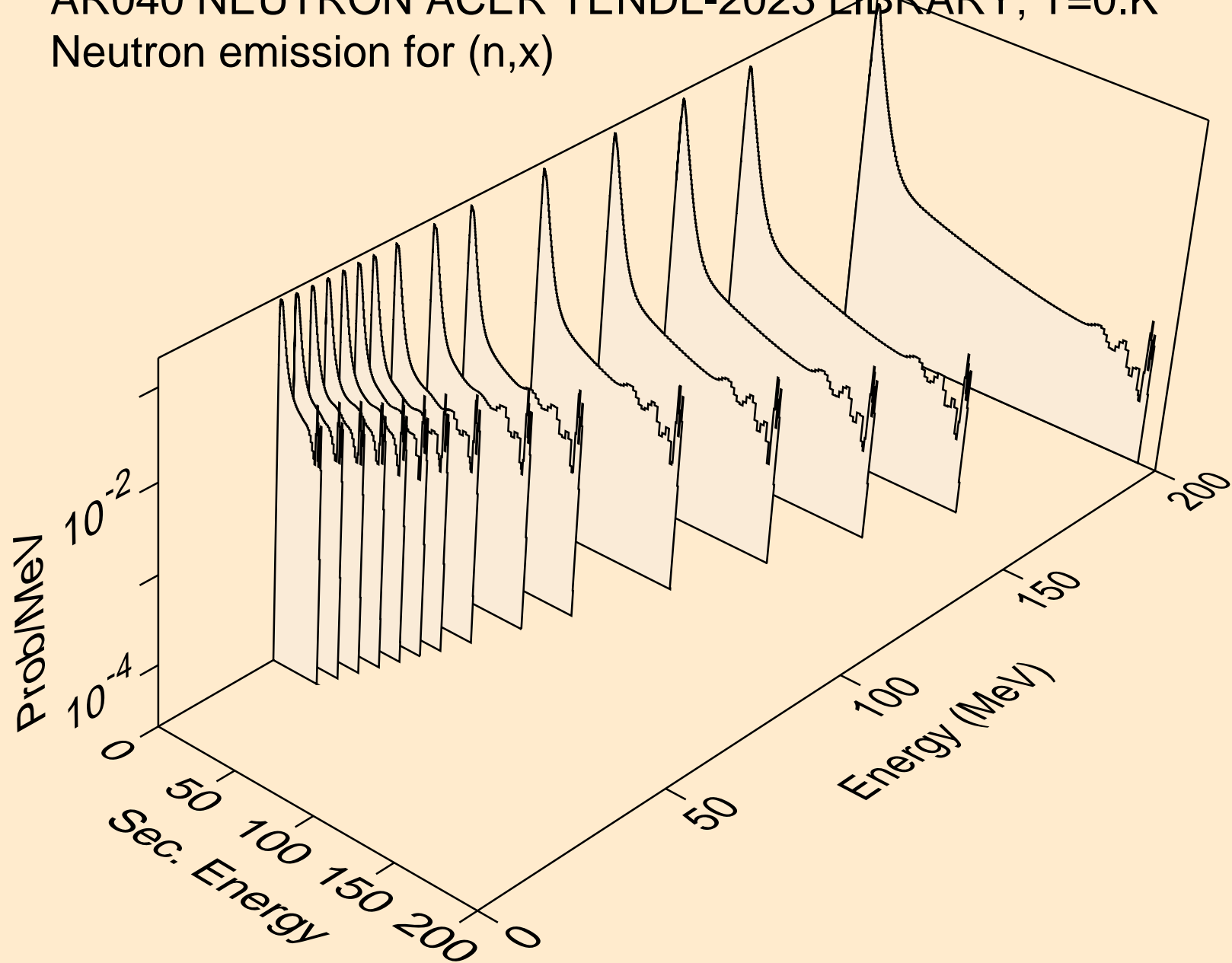




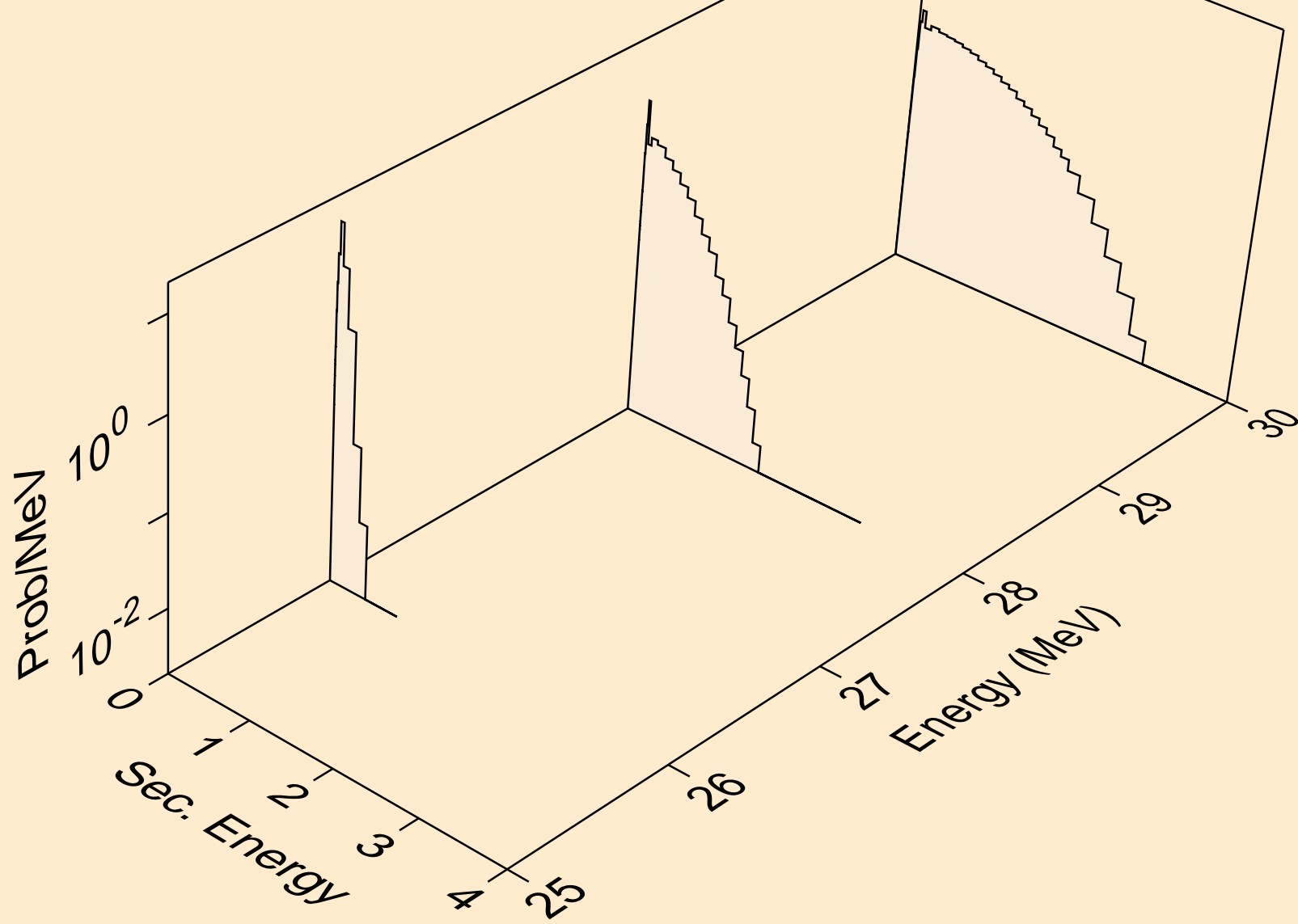
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angular distribution for (n,n\*15)



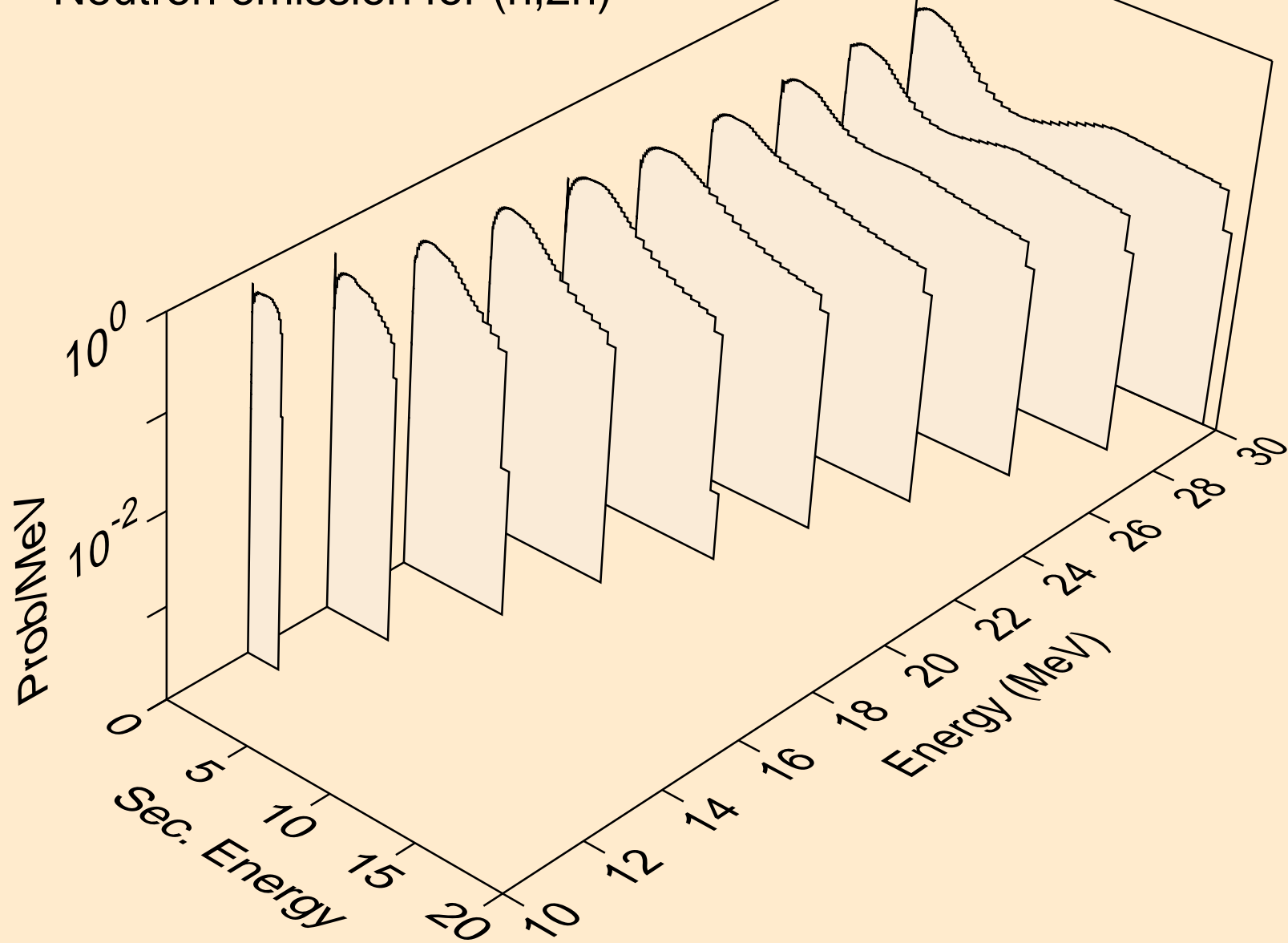
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Neutron emission for (n,x)



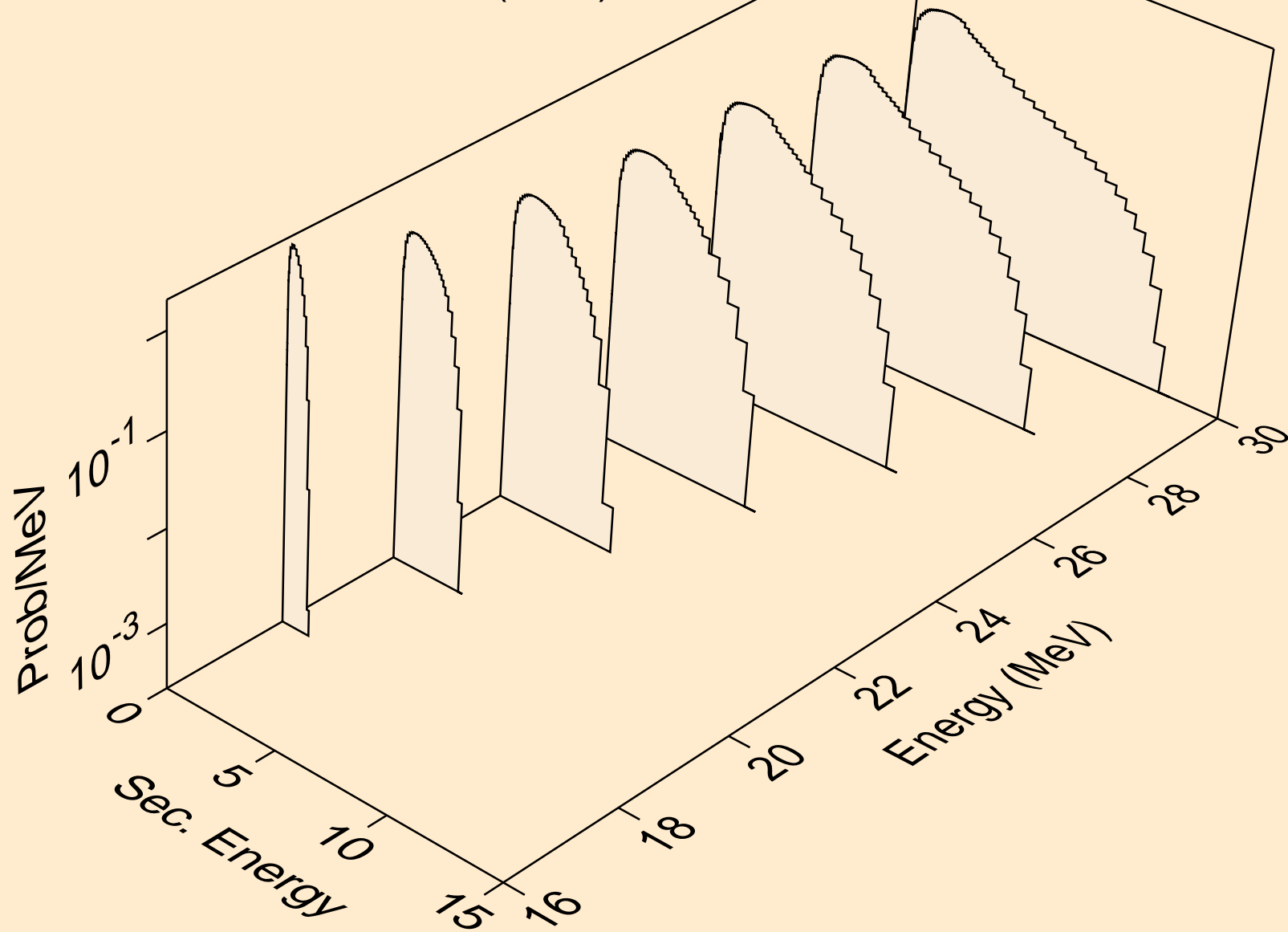
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Neutron emission for (n,2nd)



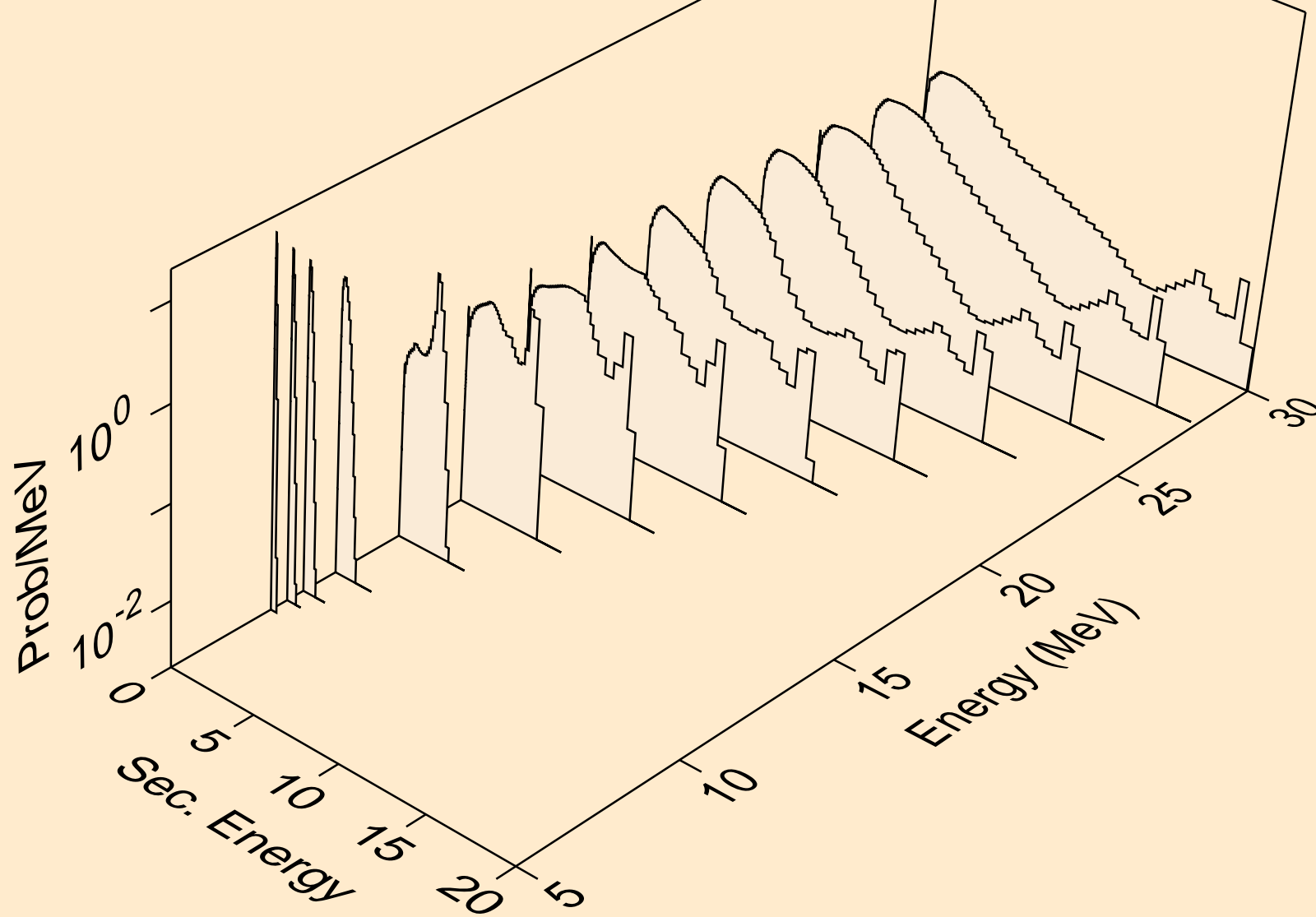
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Neutron emission for (n,2n)



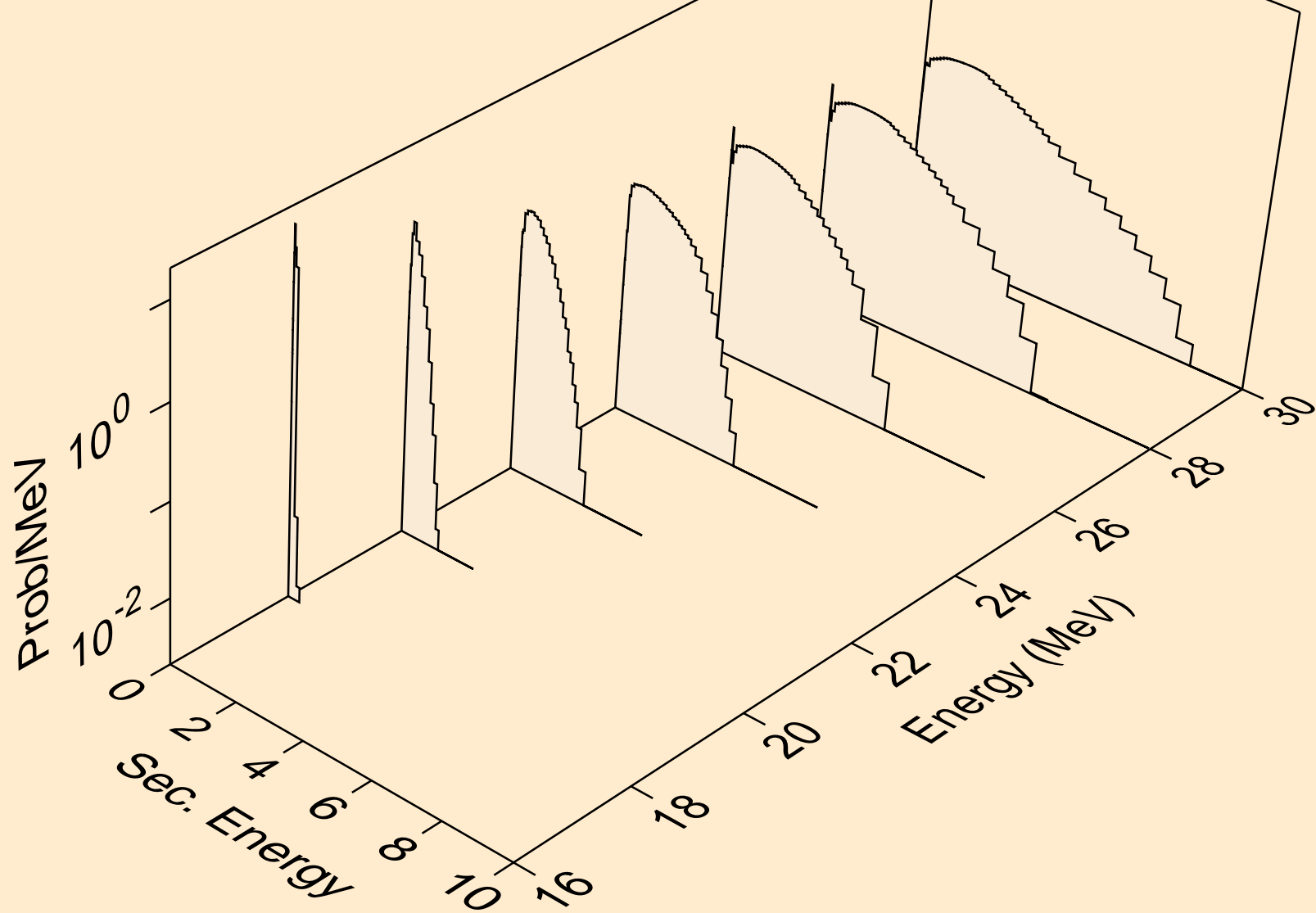
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Neutron emission for (n,3n)



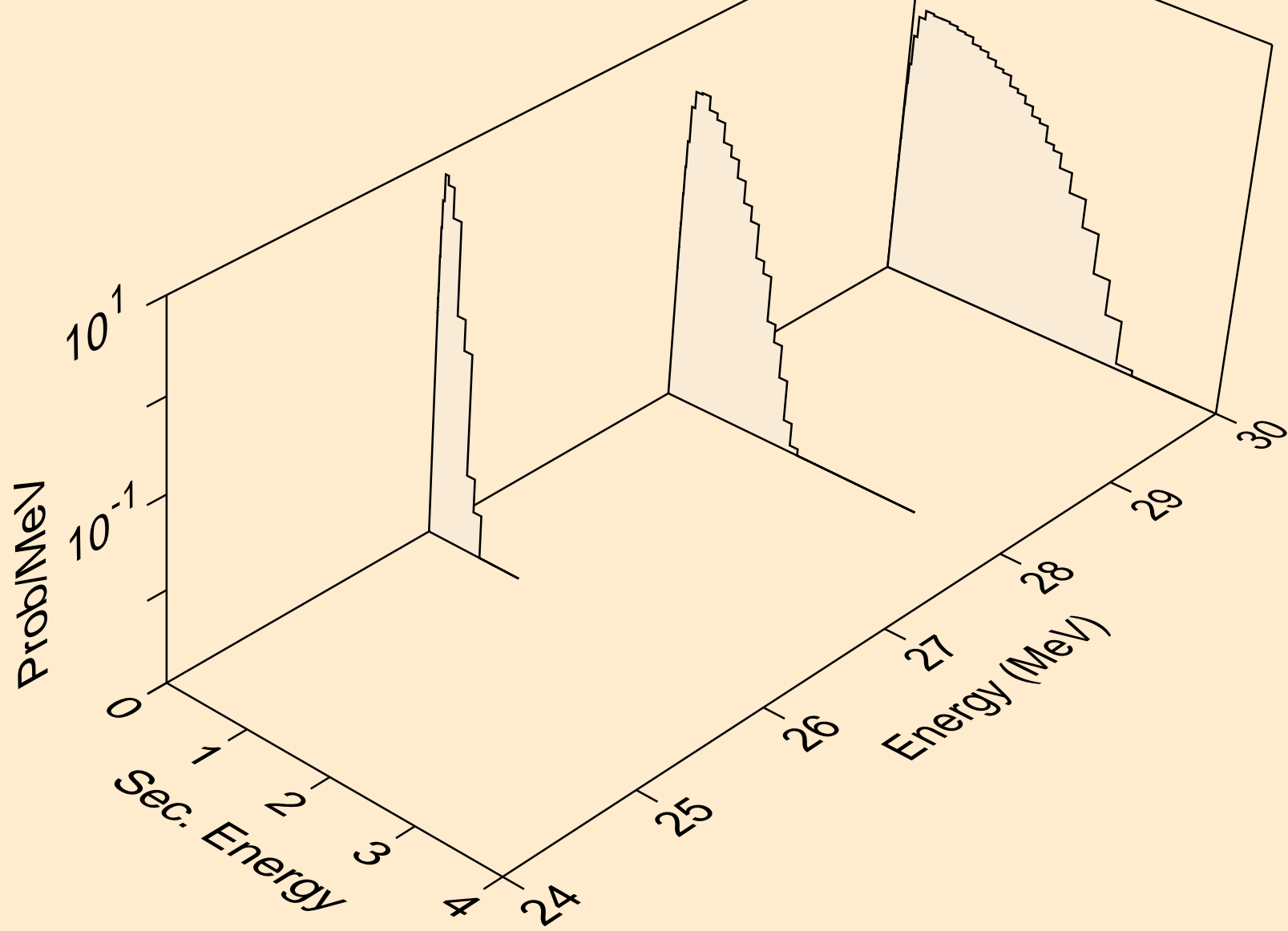
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

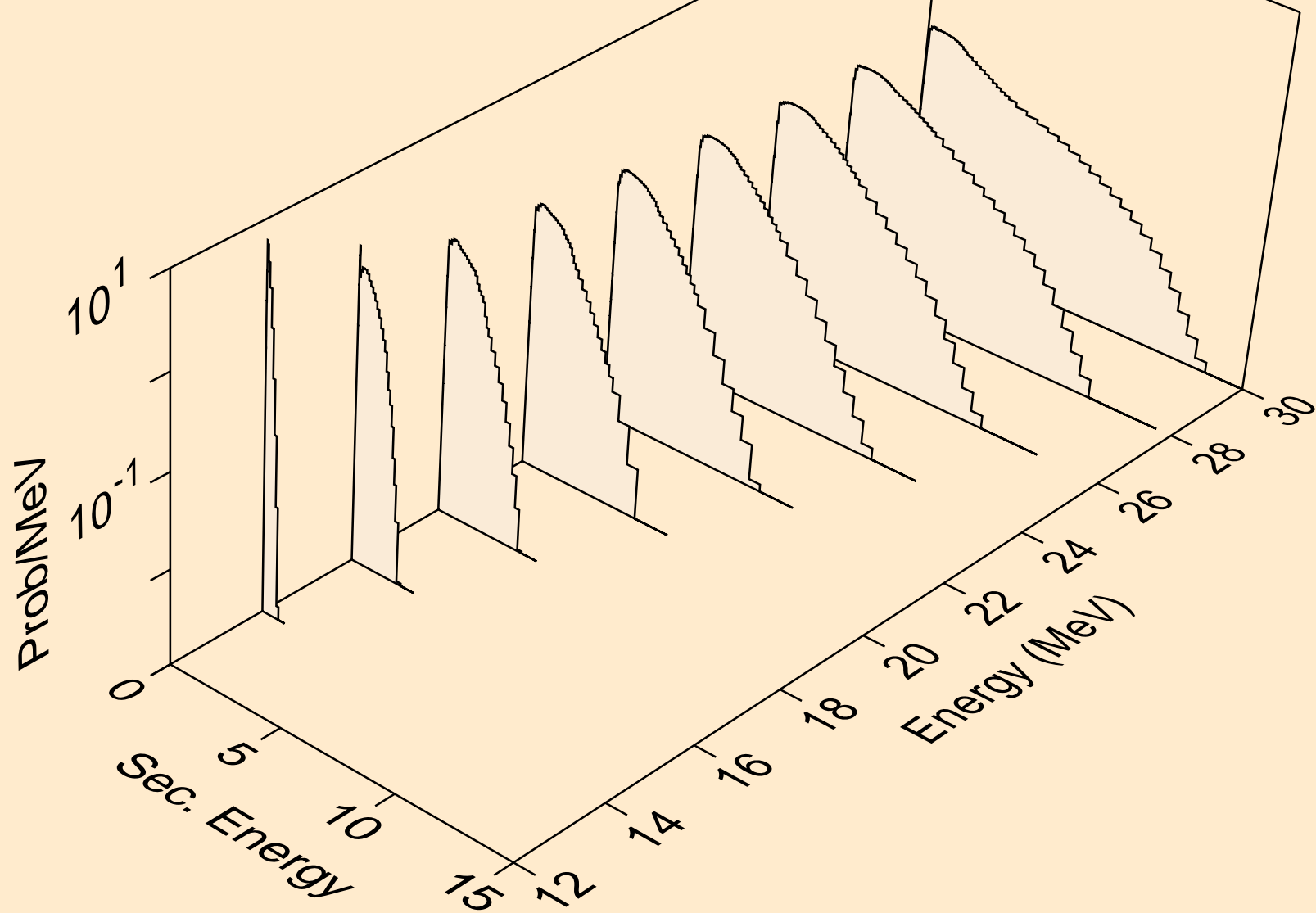


AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a

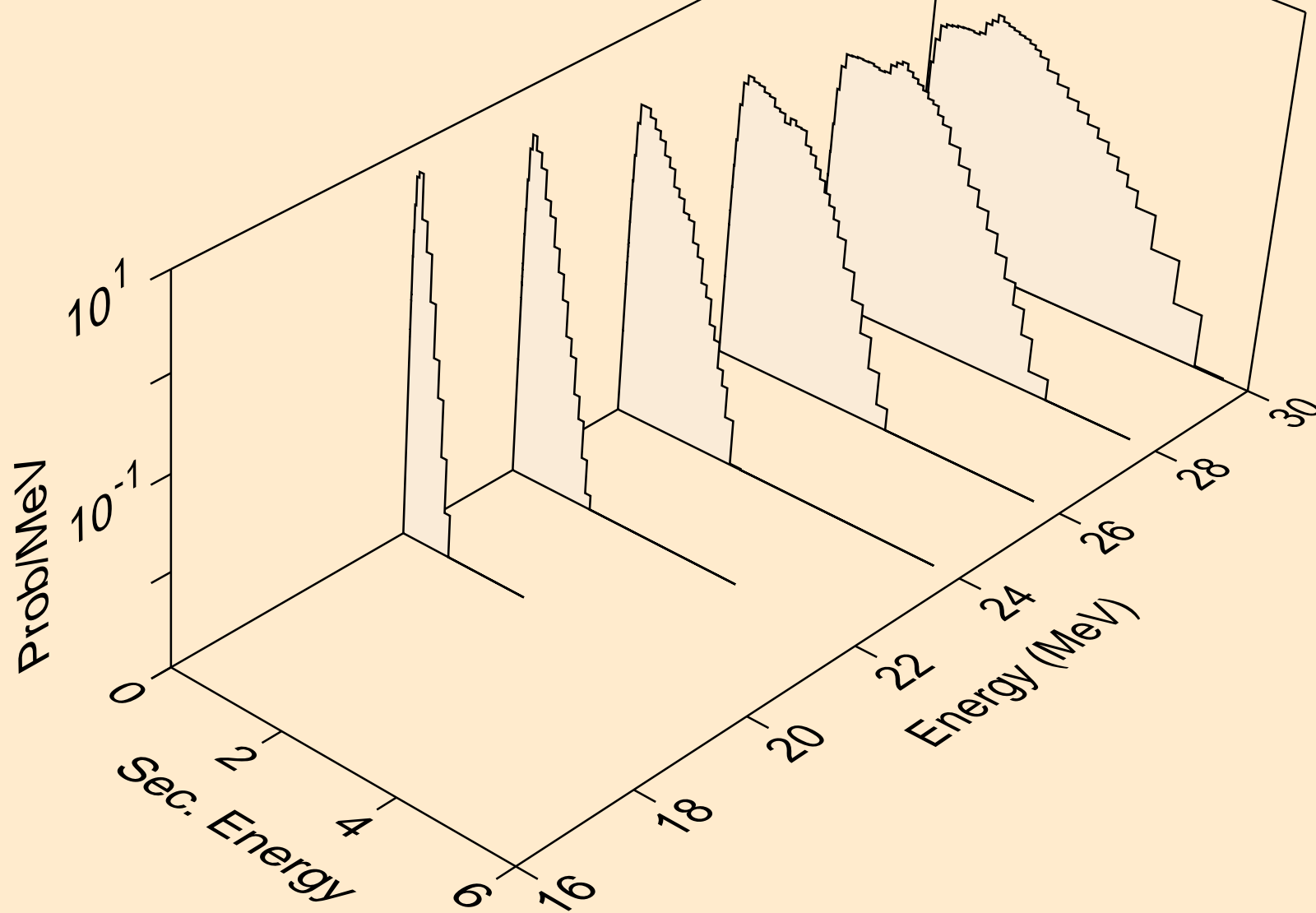




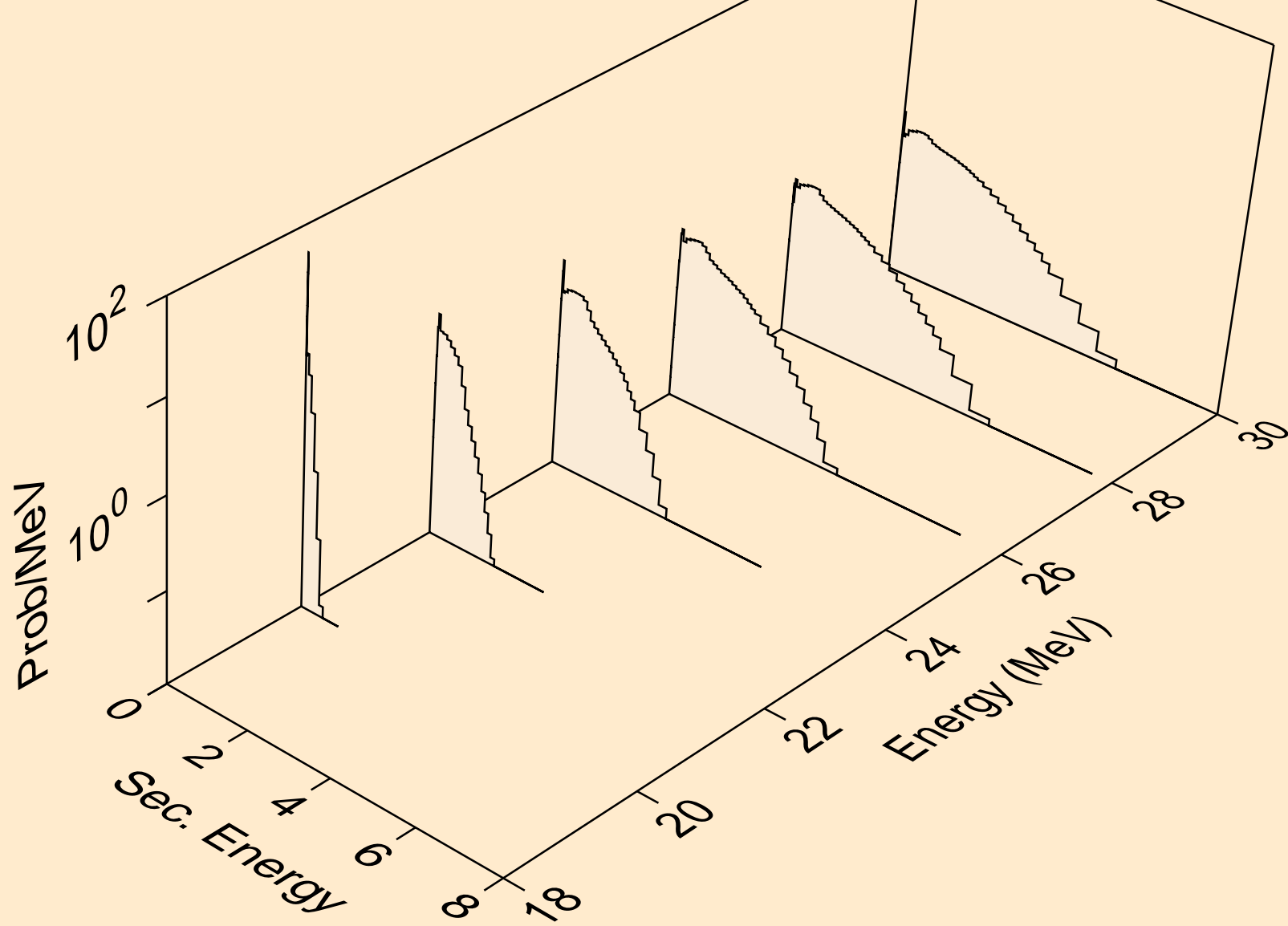
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Neutron emission for (n,n\*)p



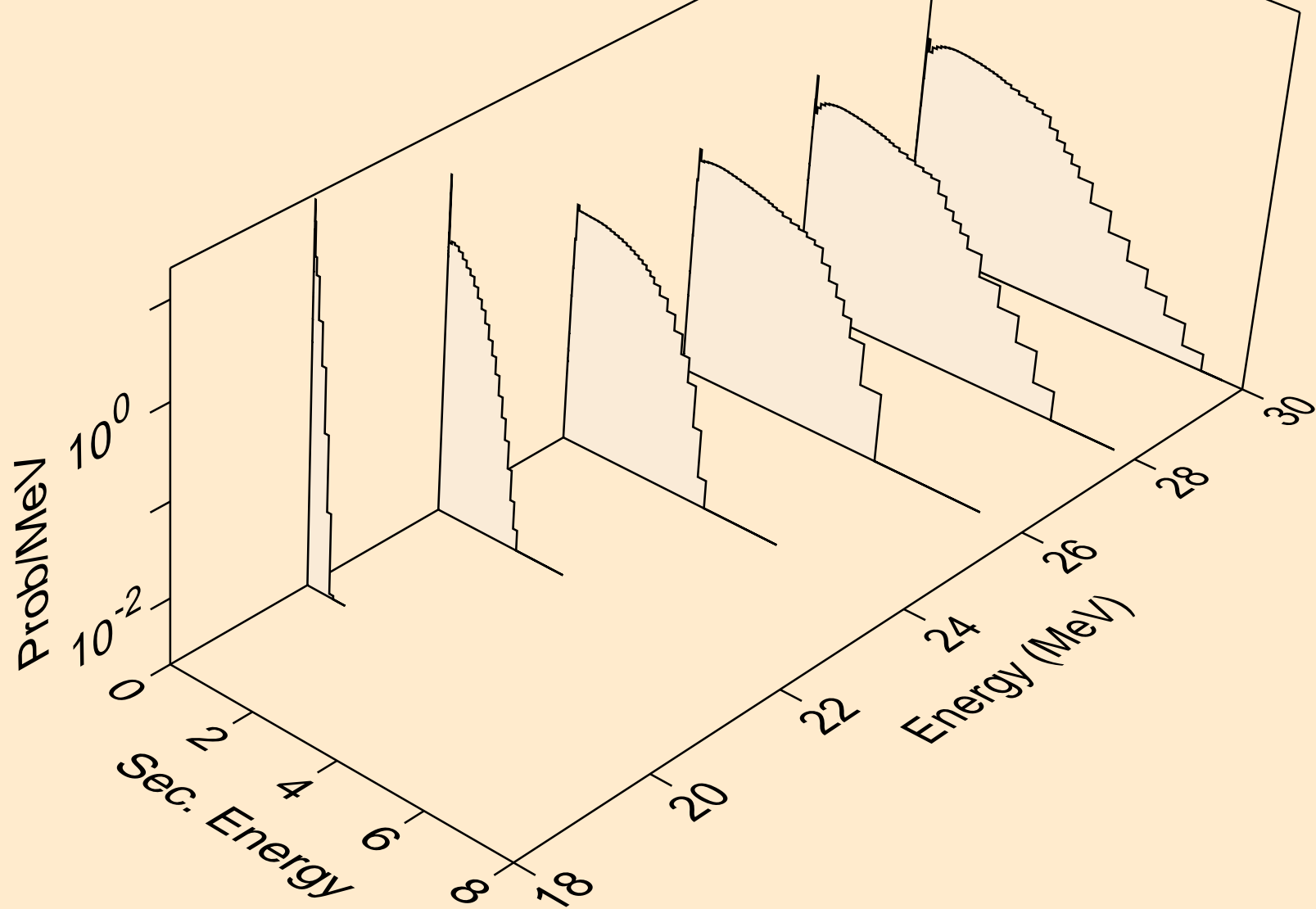
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Neutron emission for (n,n\*)2a



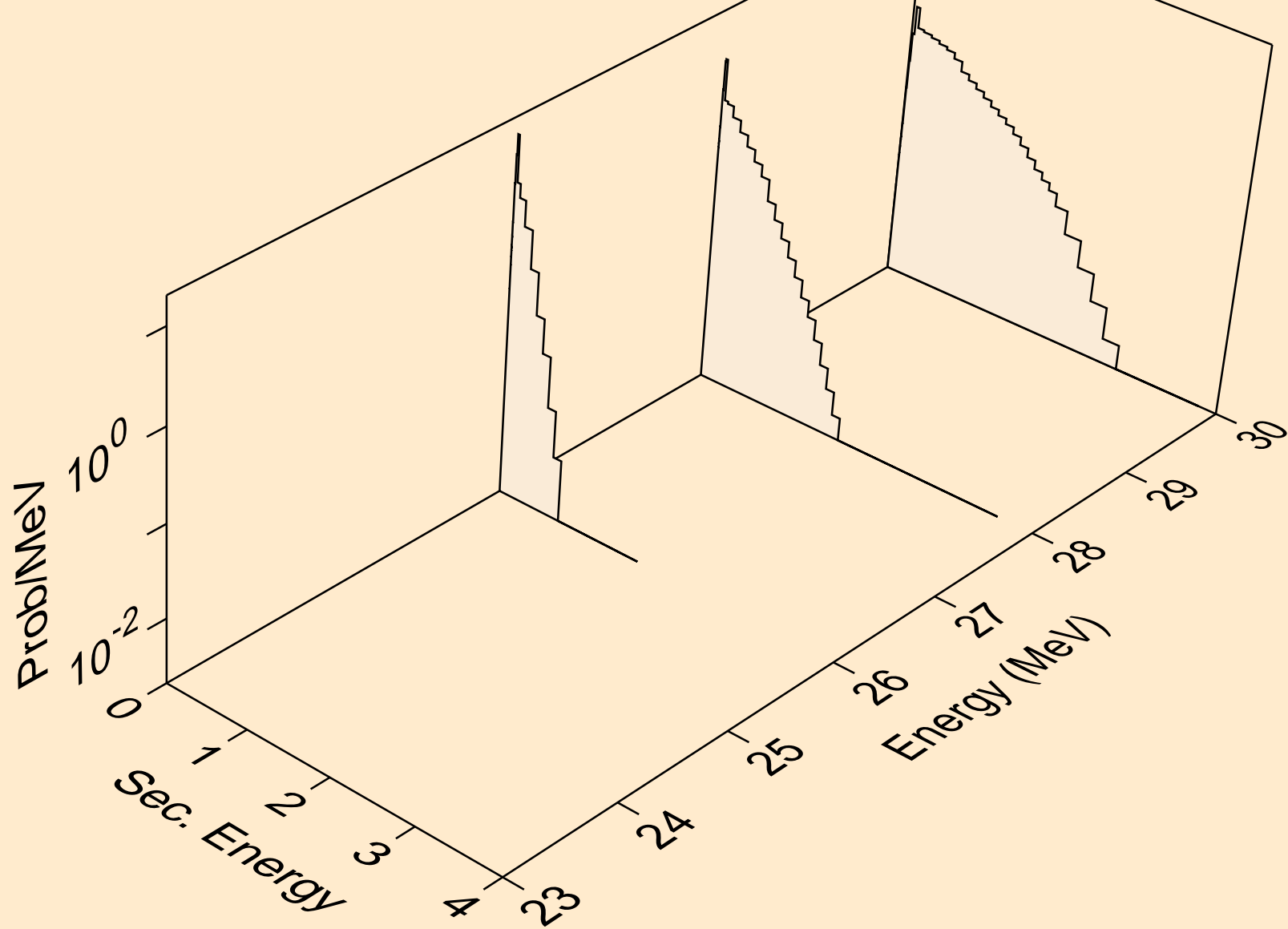
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Neutron emission for (n,n\*)d



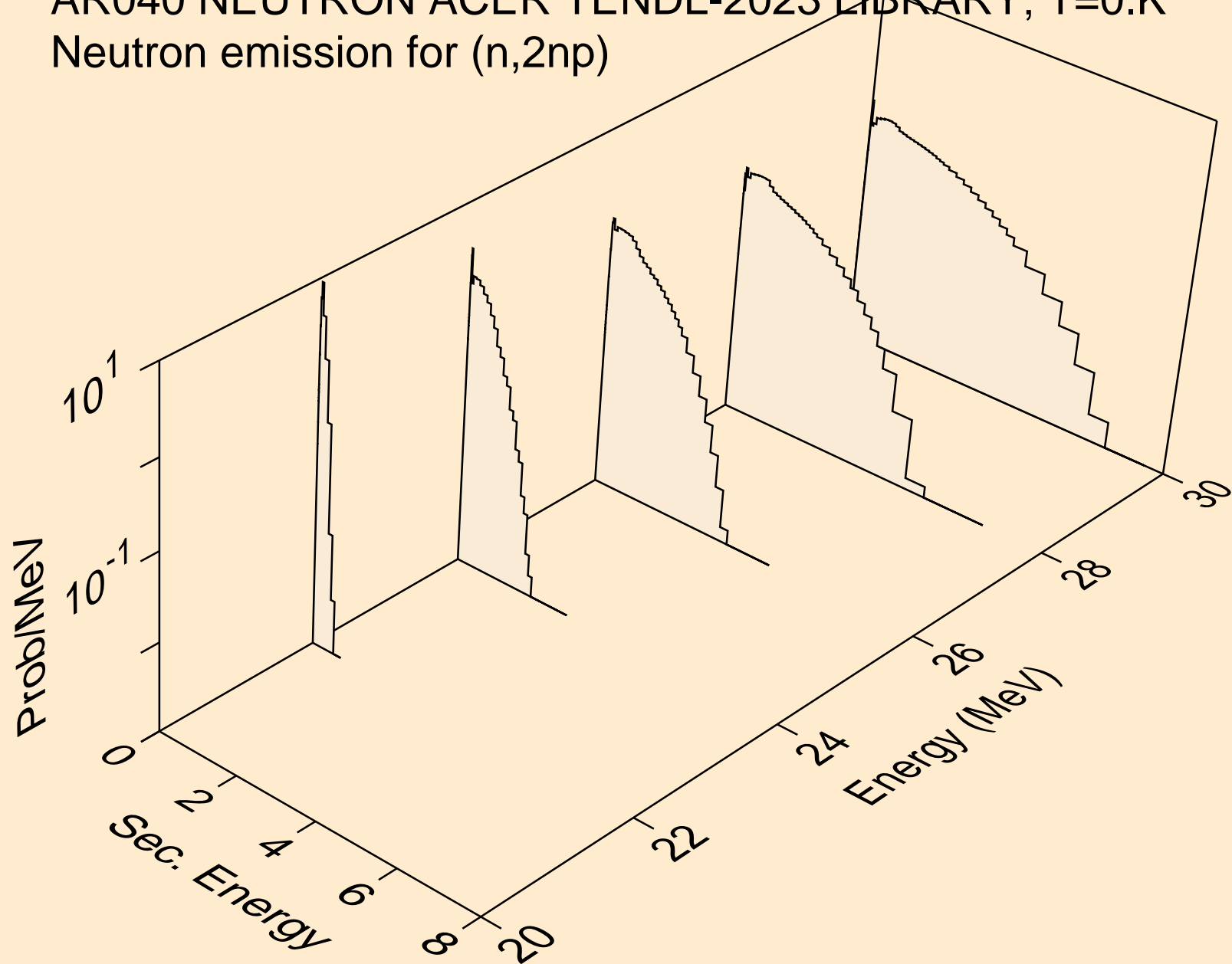
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Neutron emission for (n,n\*)t



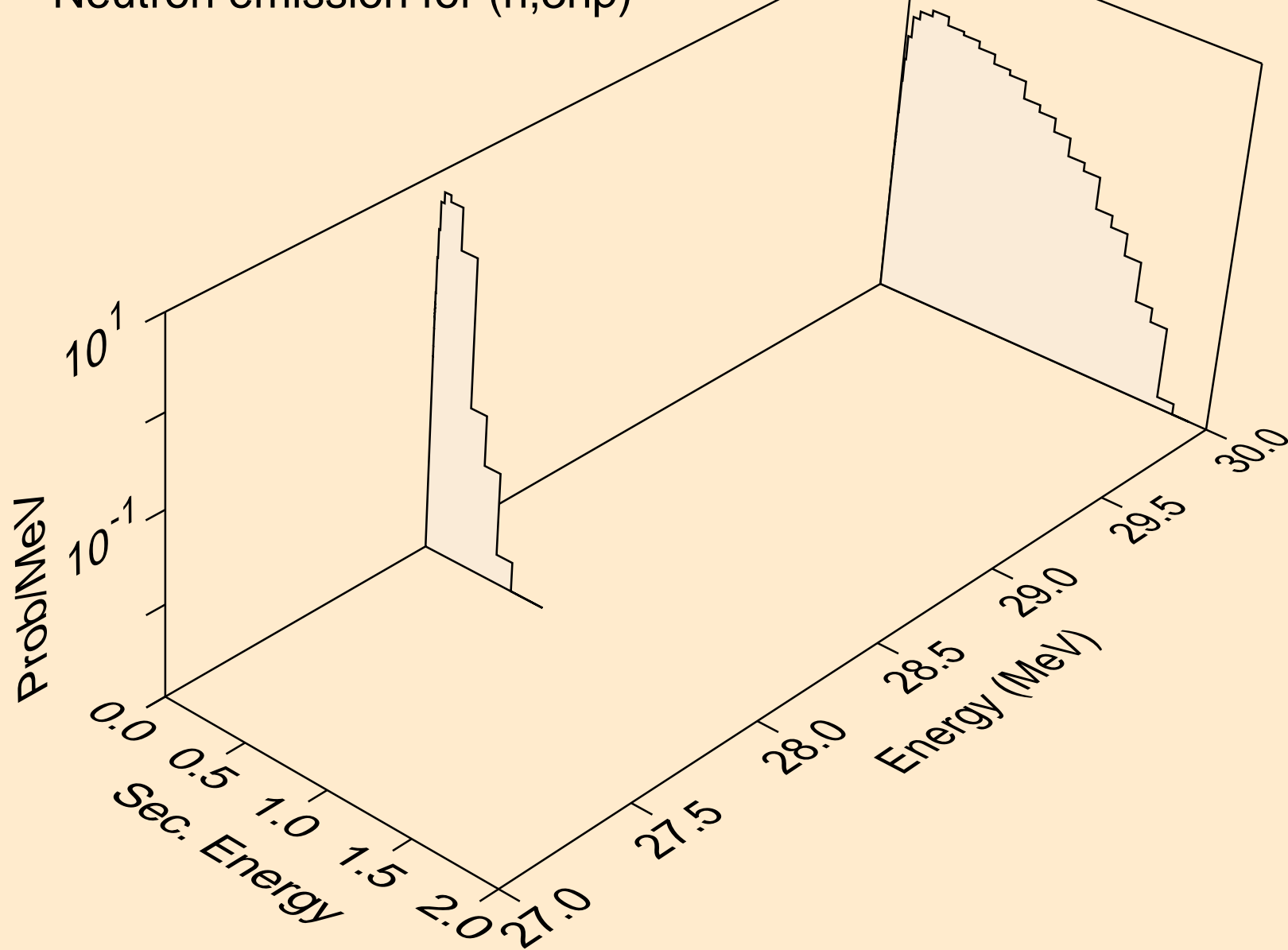
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Neutron emission for (n,n\*)he3



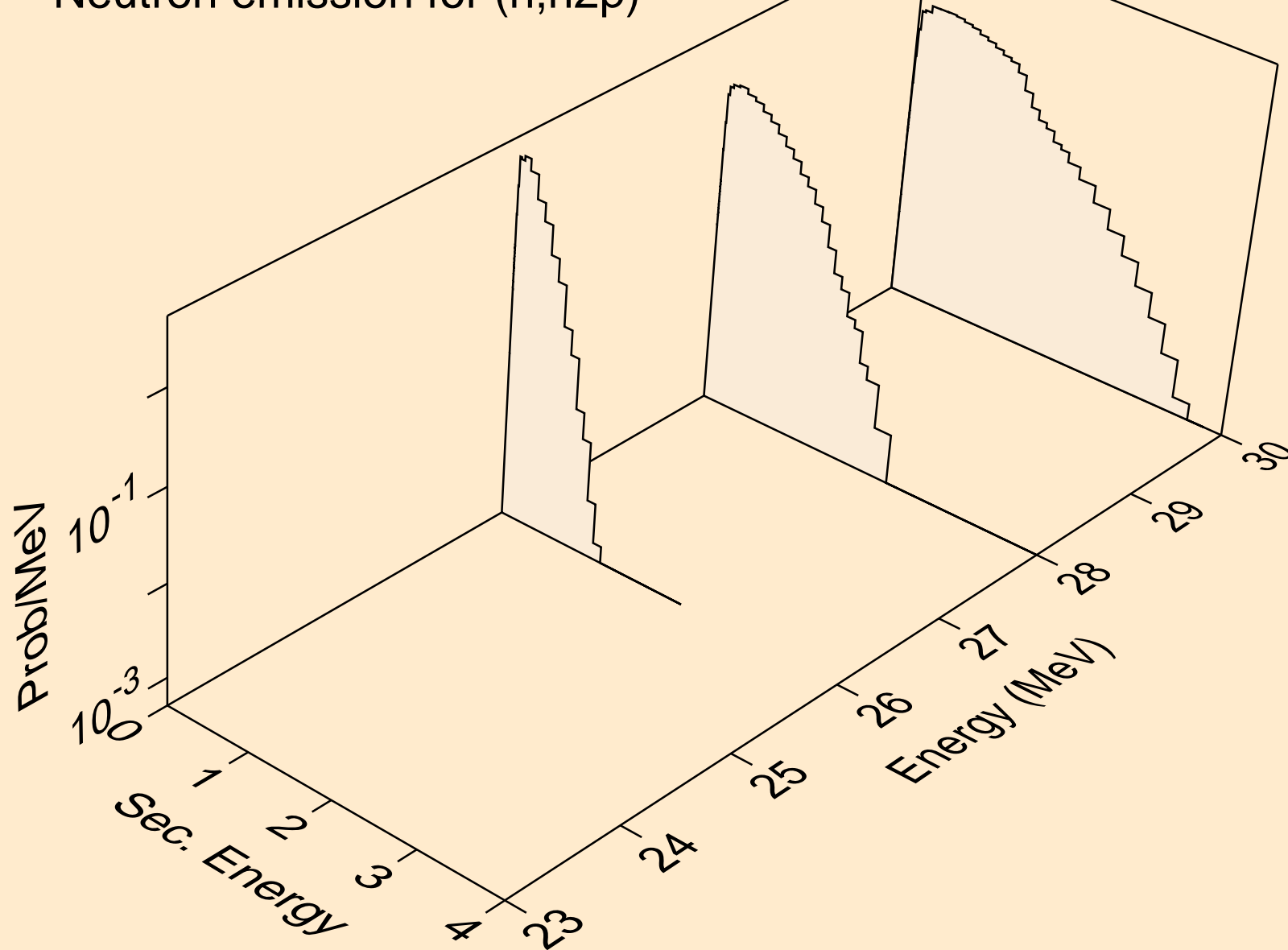
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)

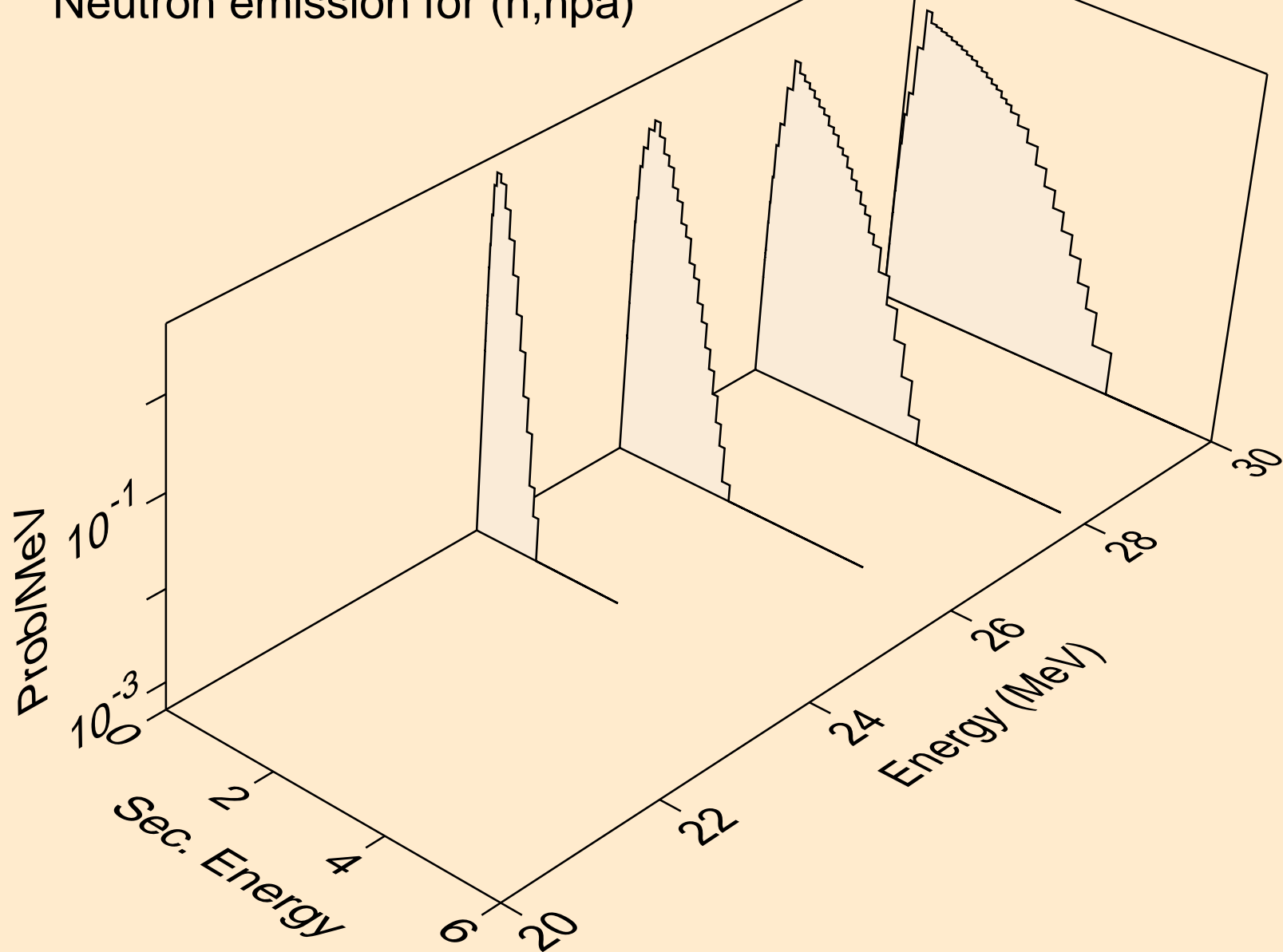


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Neutron emission for (n,n2p)

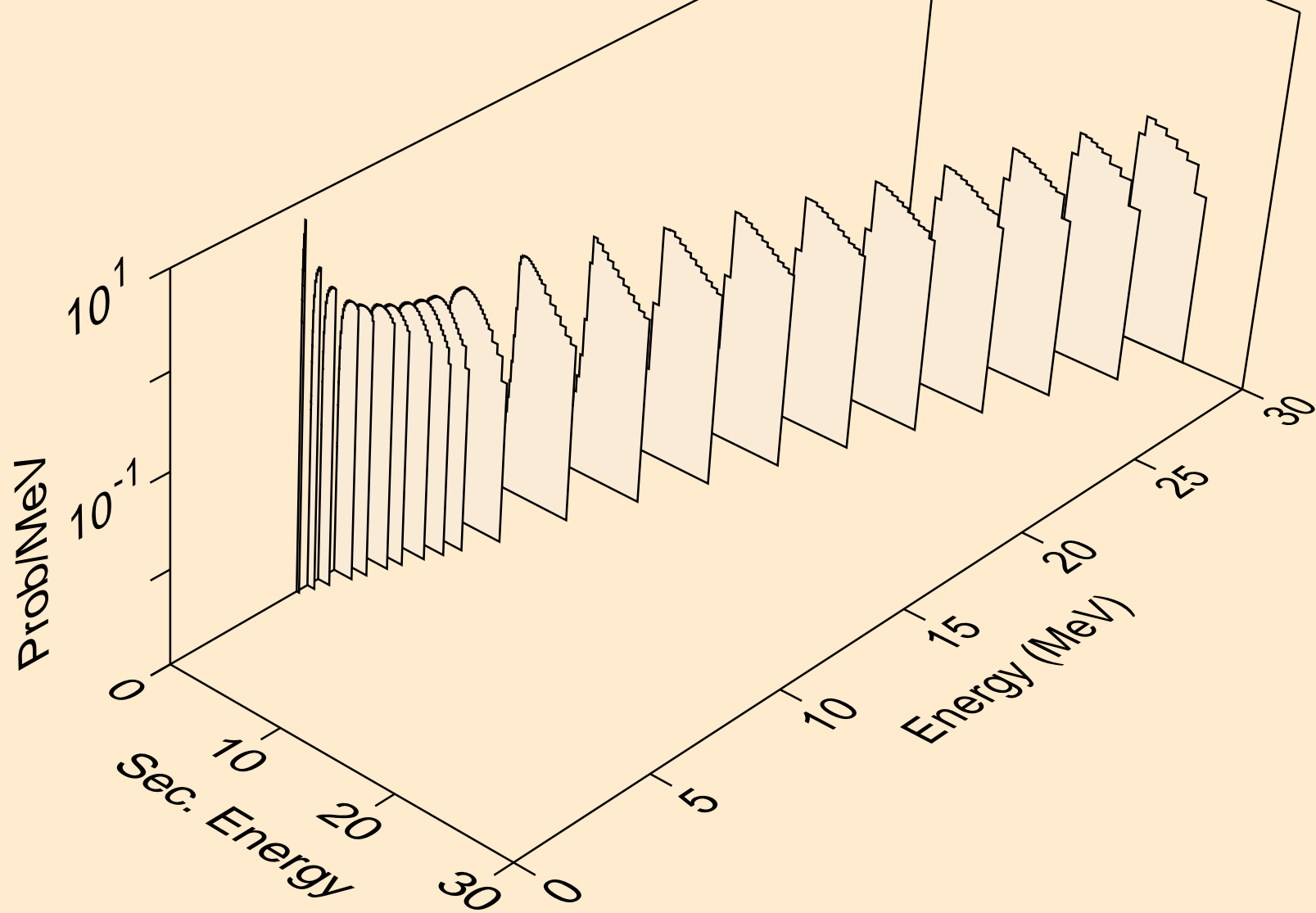




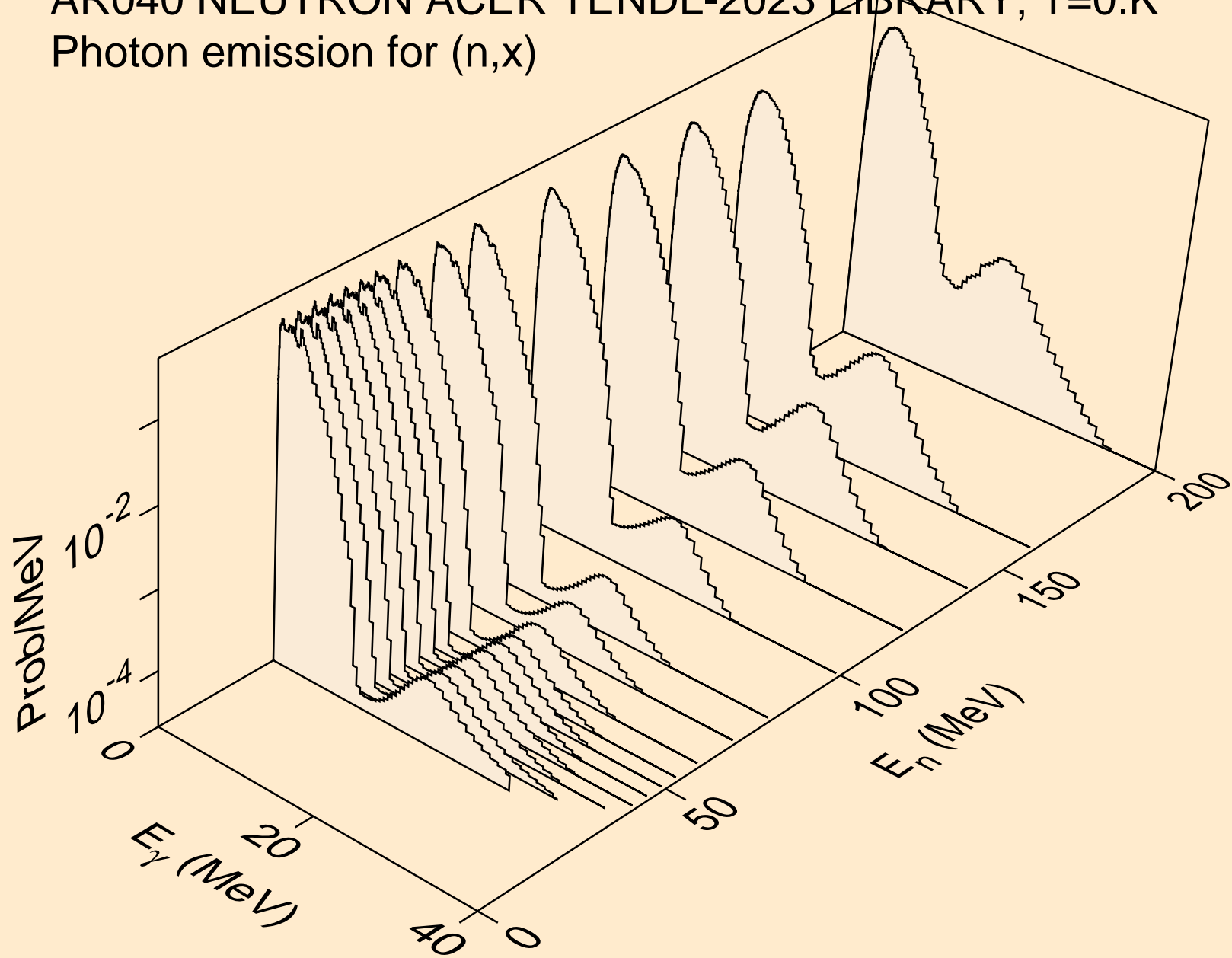
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Neutron emission for (n,npa)



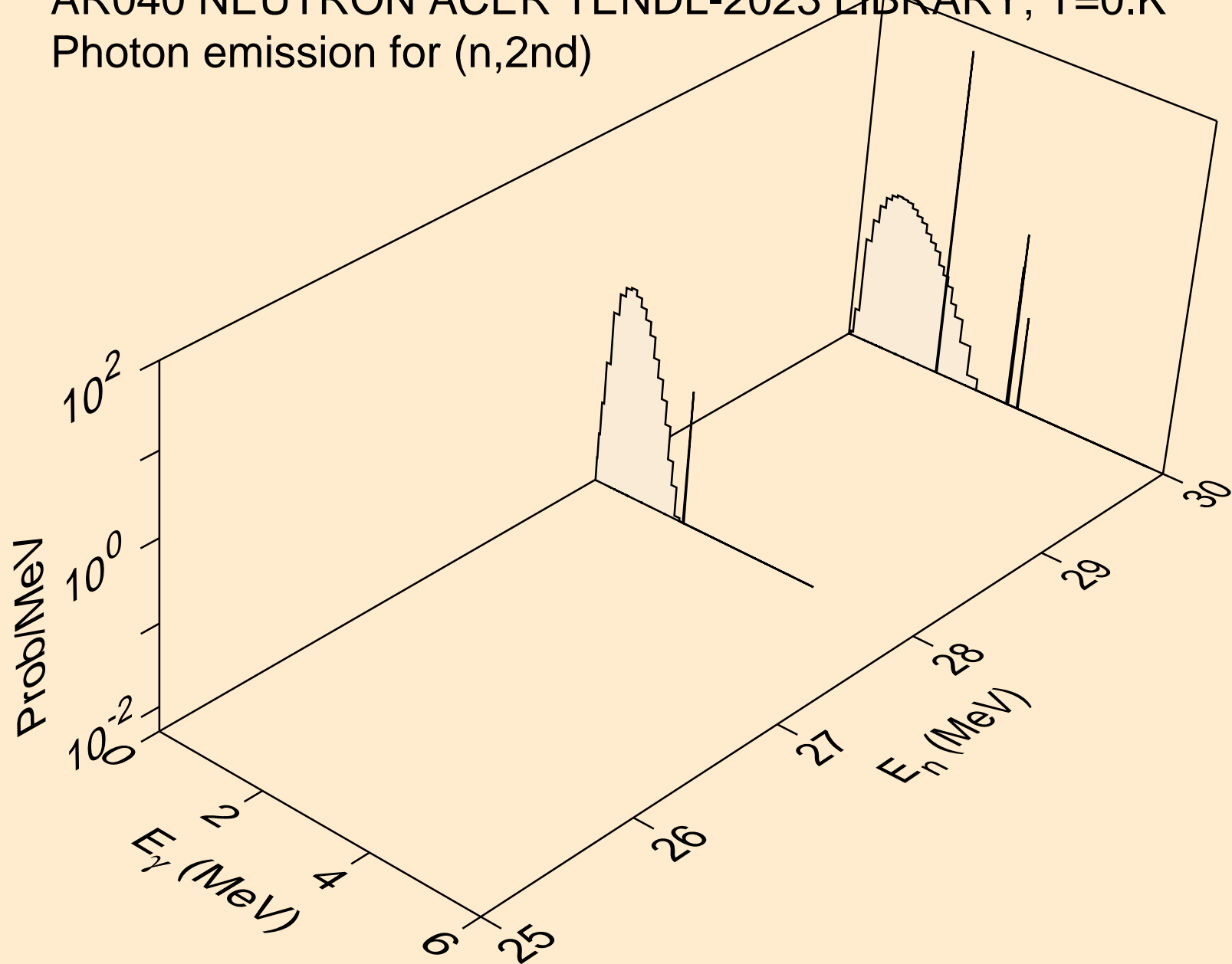
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Neutron emission for (n,n\*c)



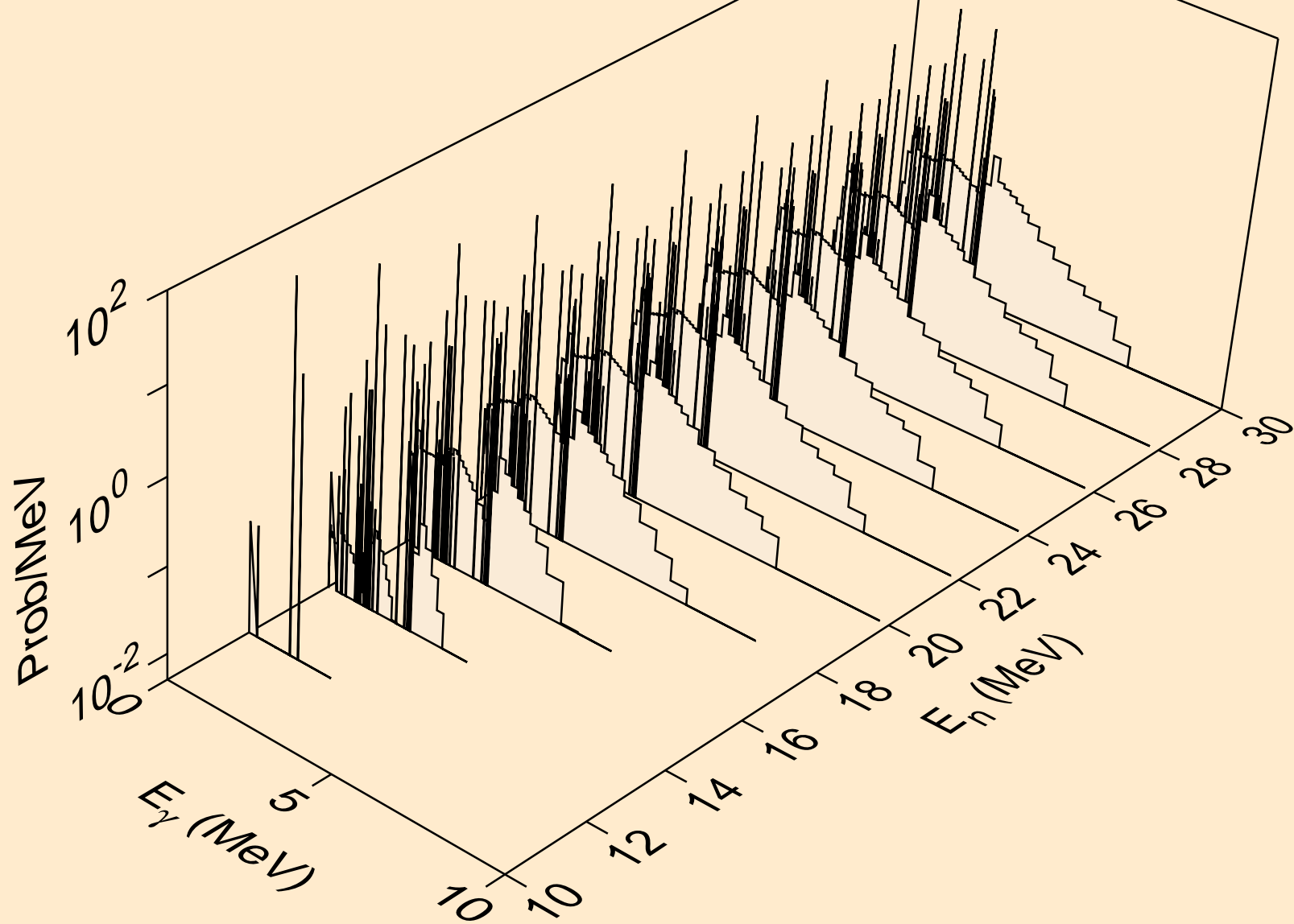
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Photon emission for (n,x)



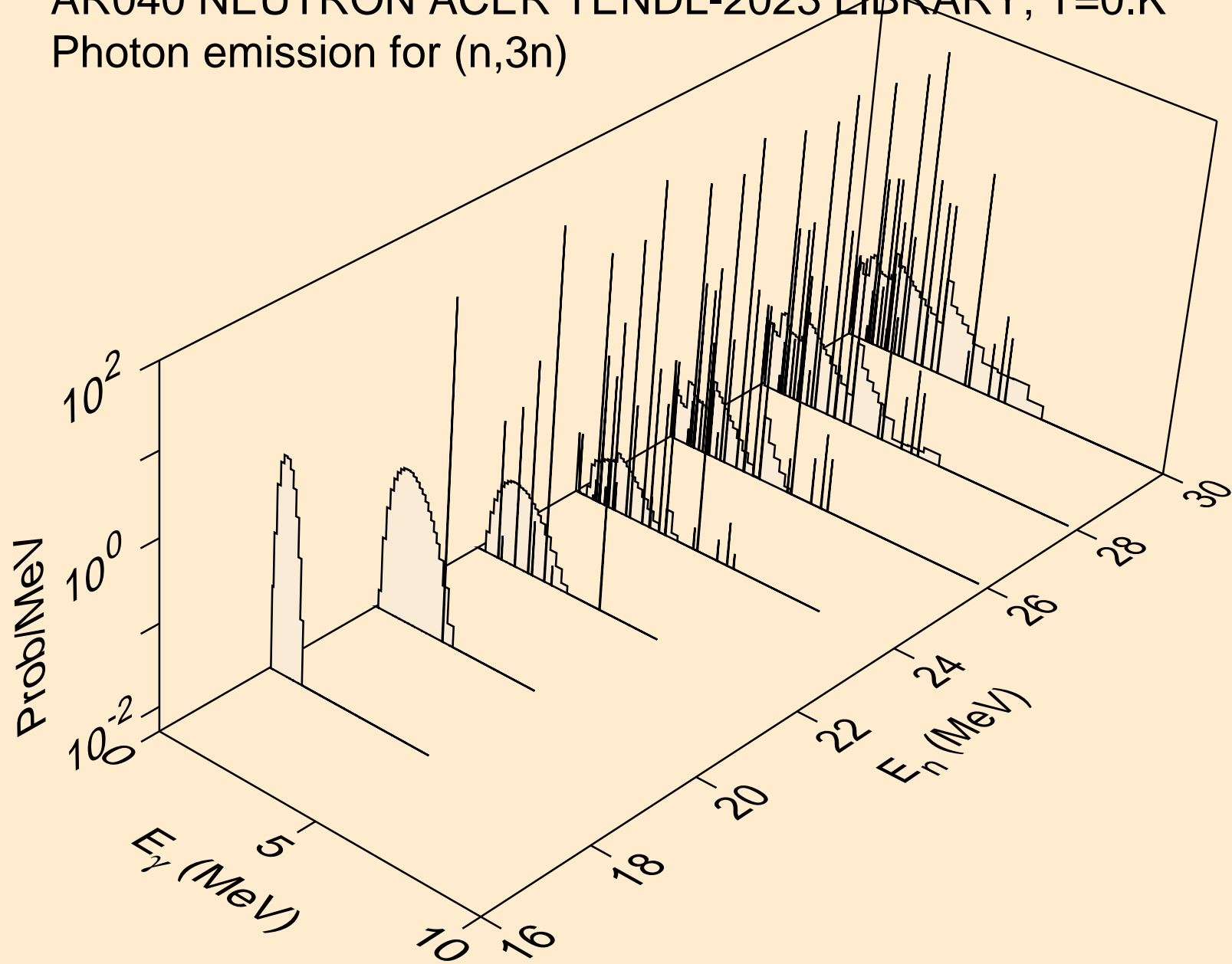
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Photon emission for (n,2nd)



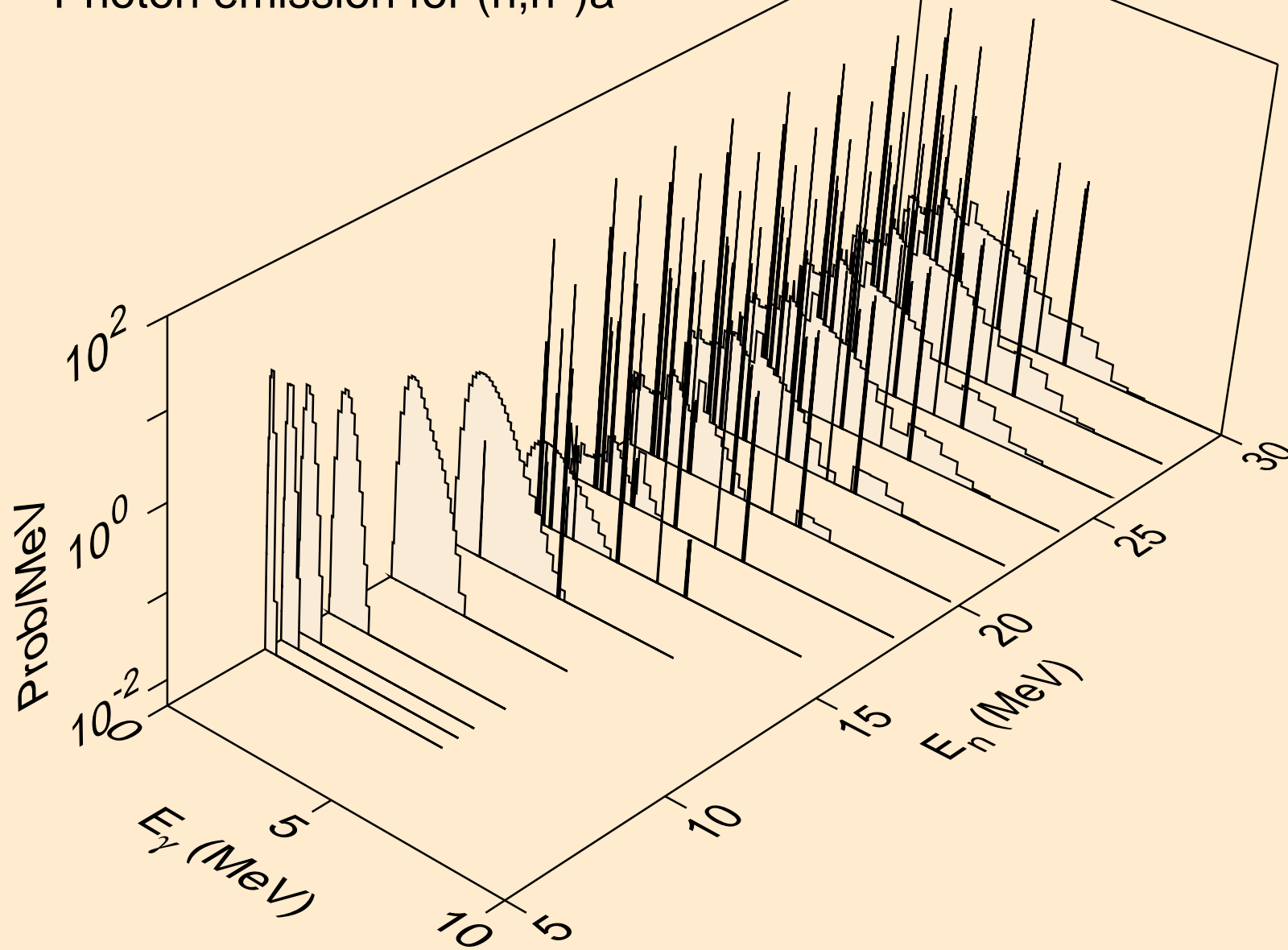
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Photon emission for (n,2n)



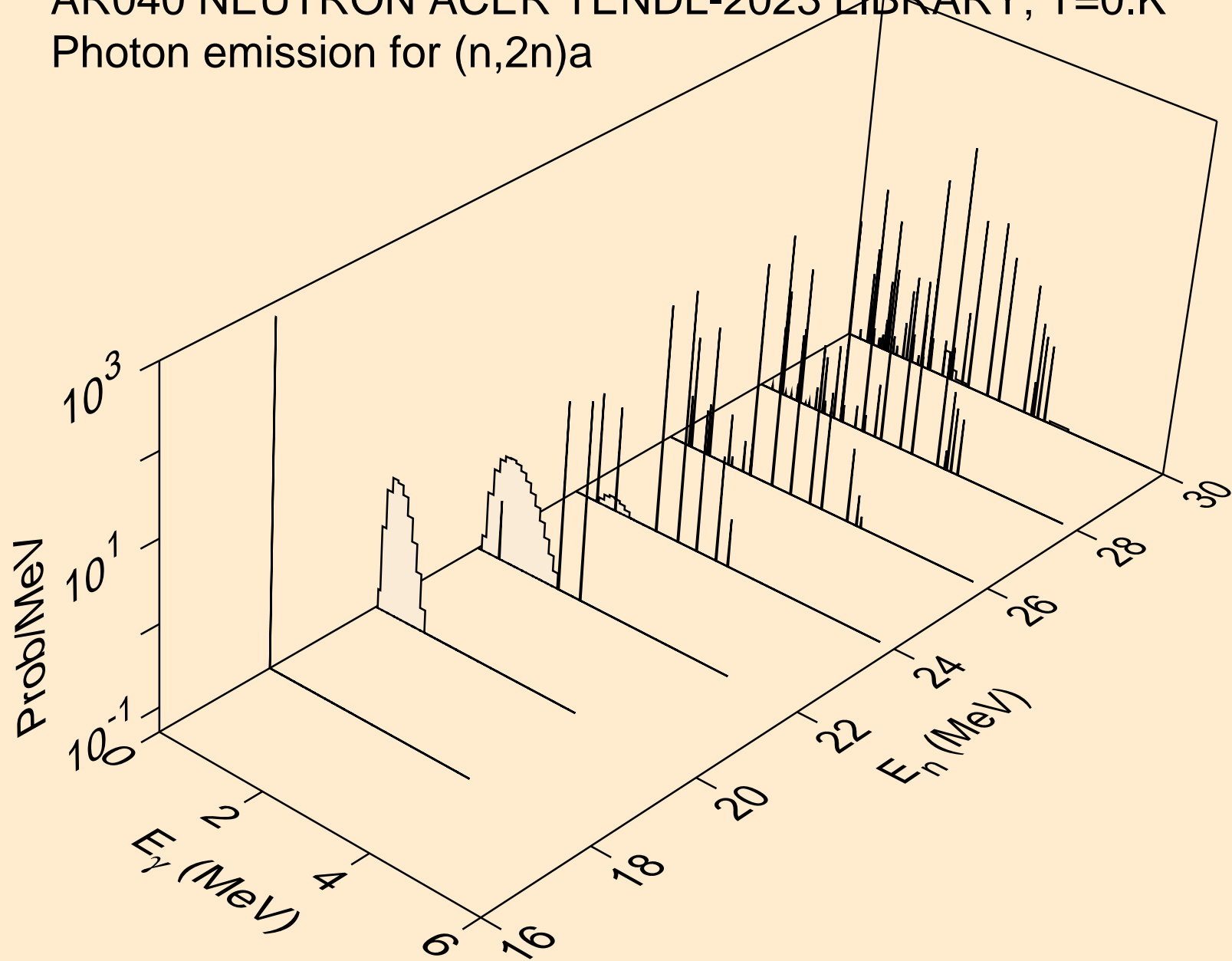
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

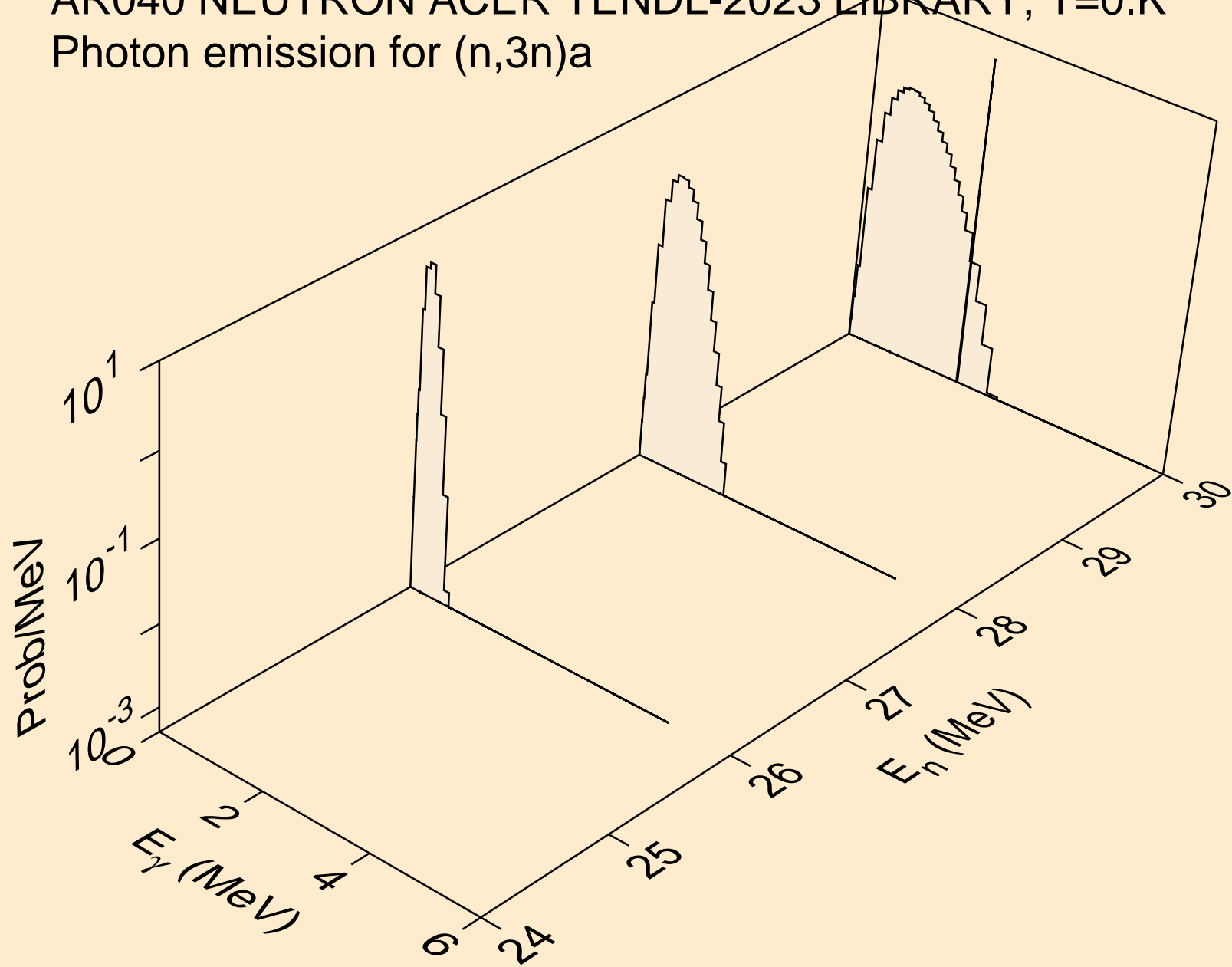


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Photon emission for (n,2n)a

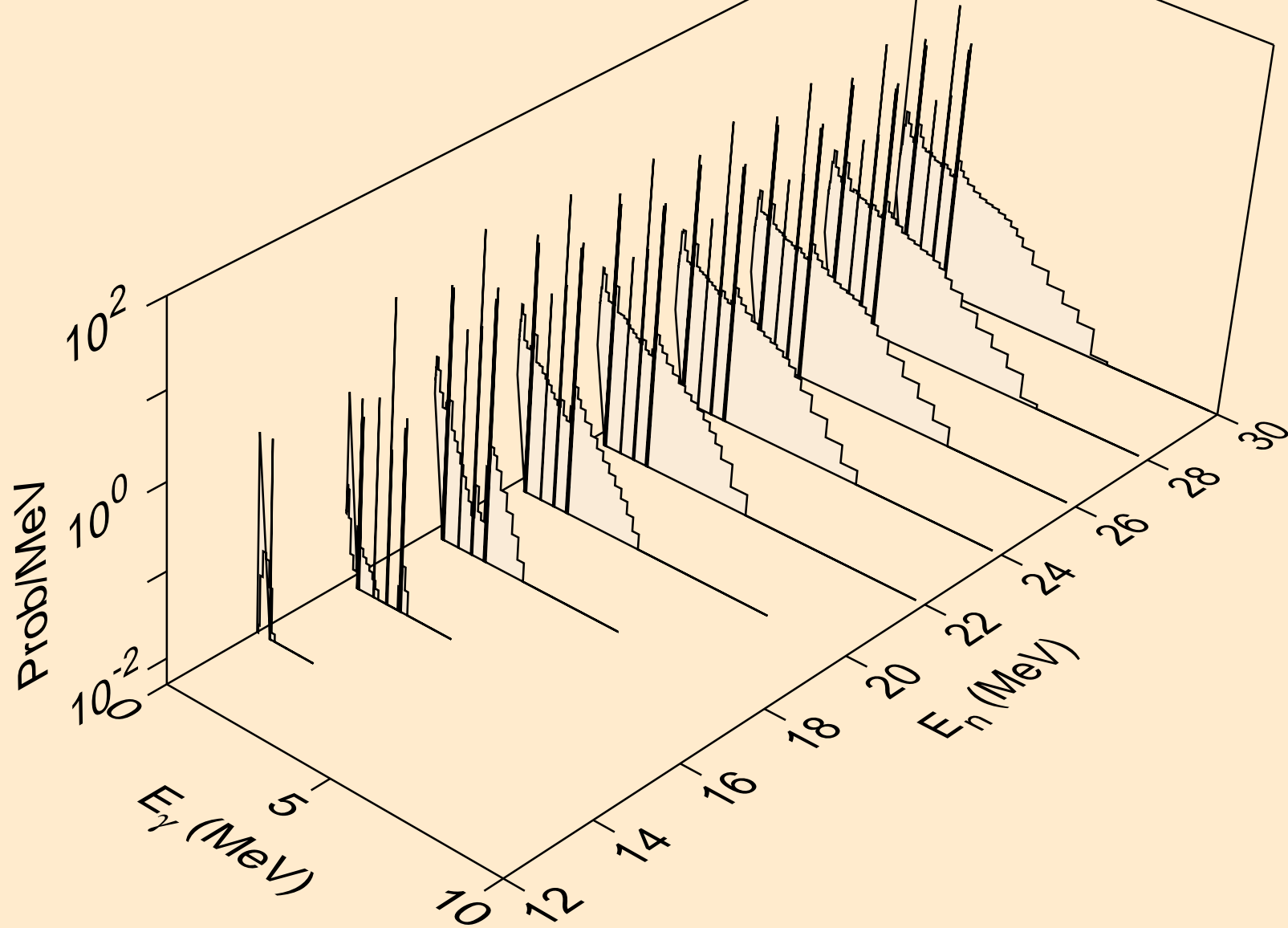




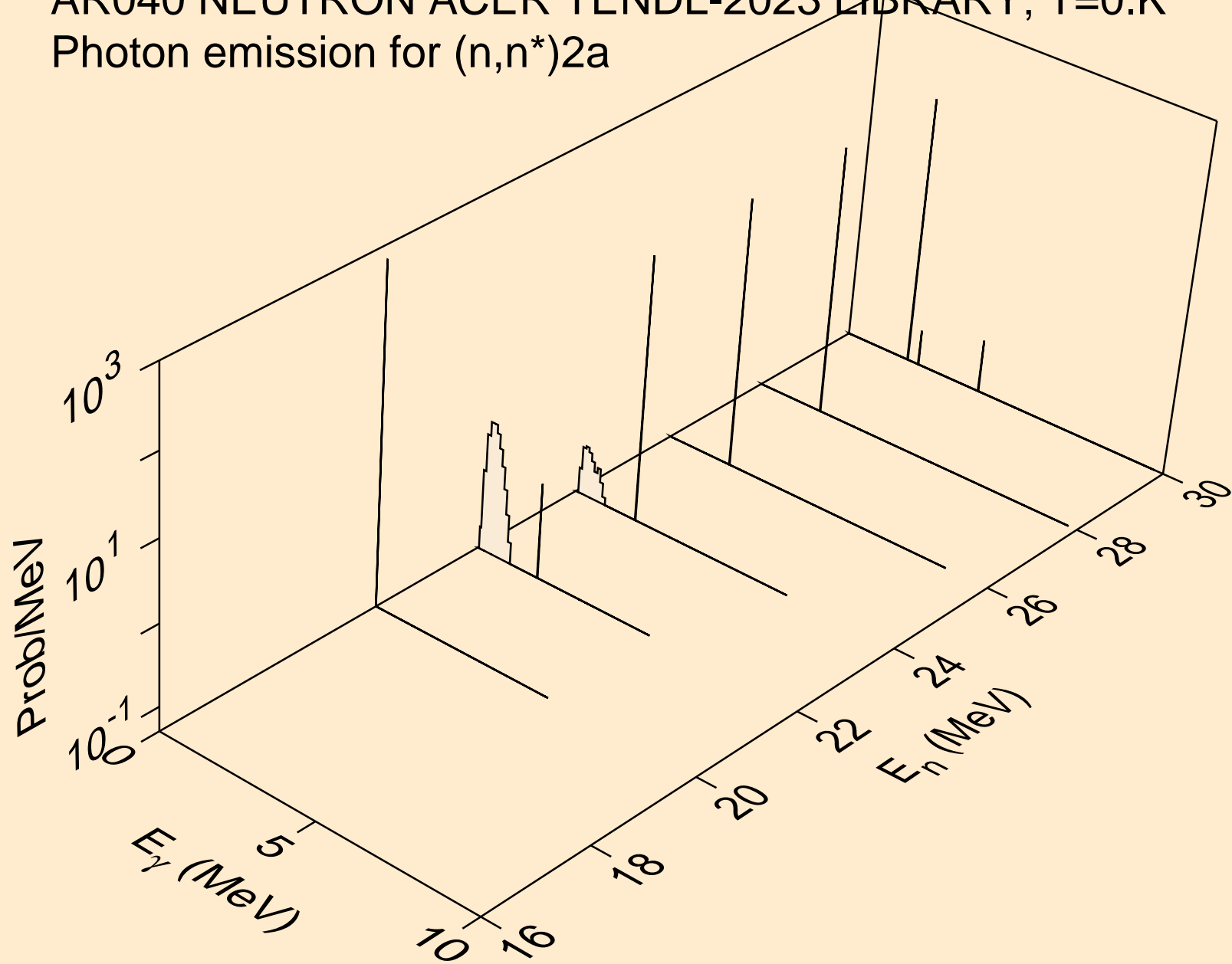
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Photon emission for (n,3n)a



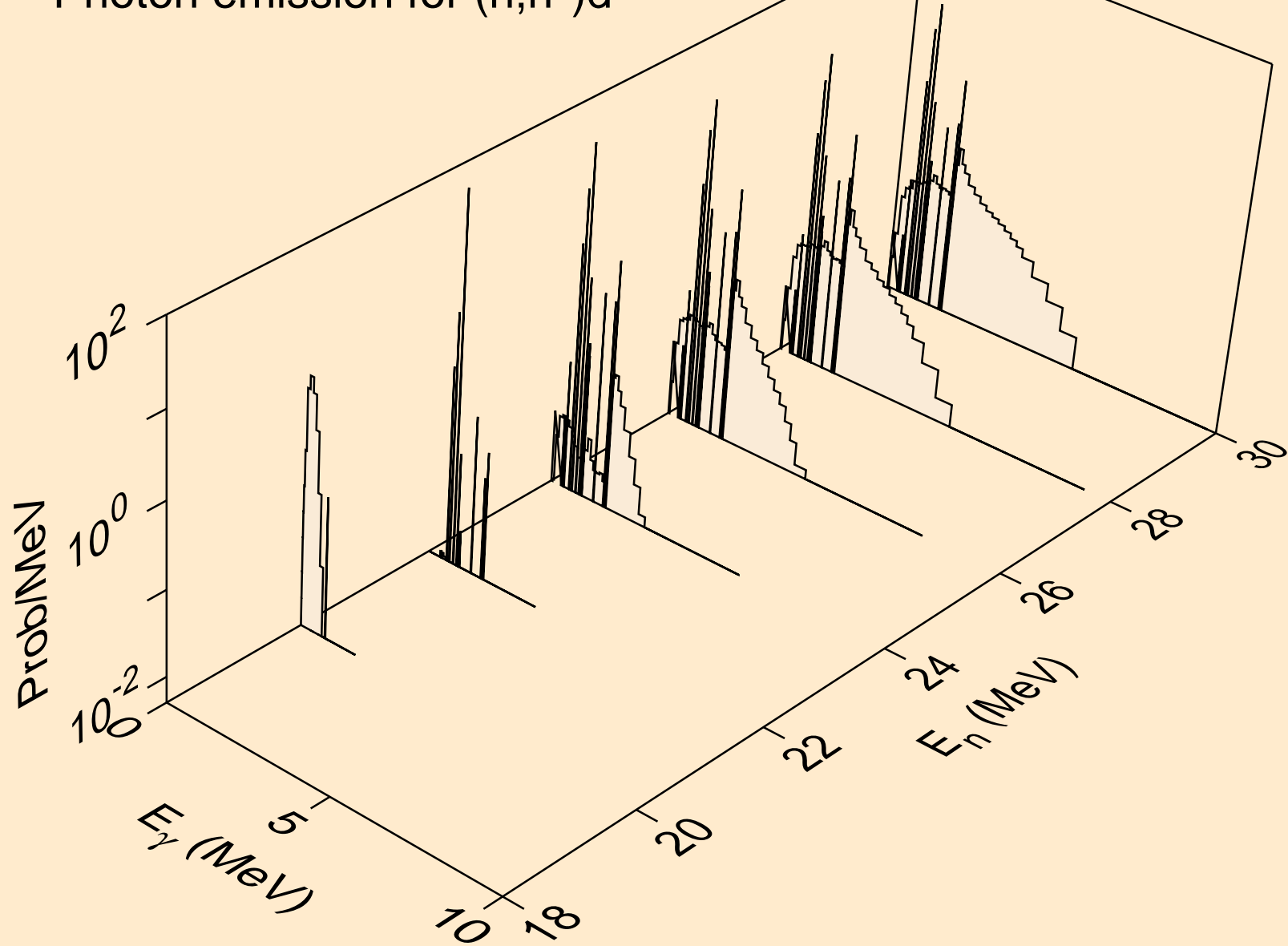
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Photon emission for (n,n\*)p



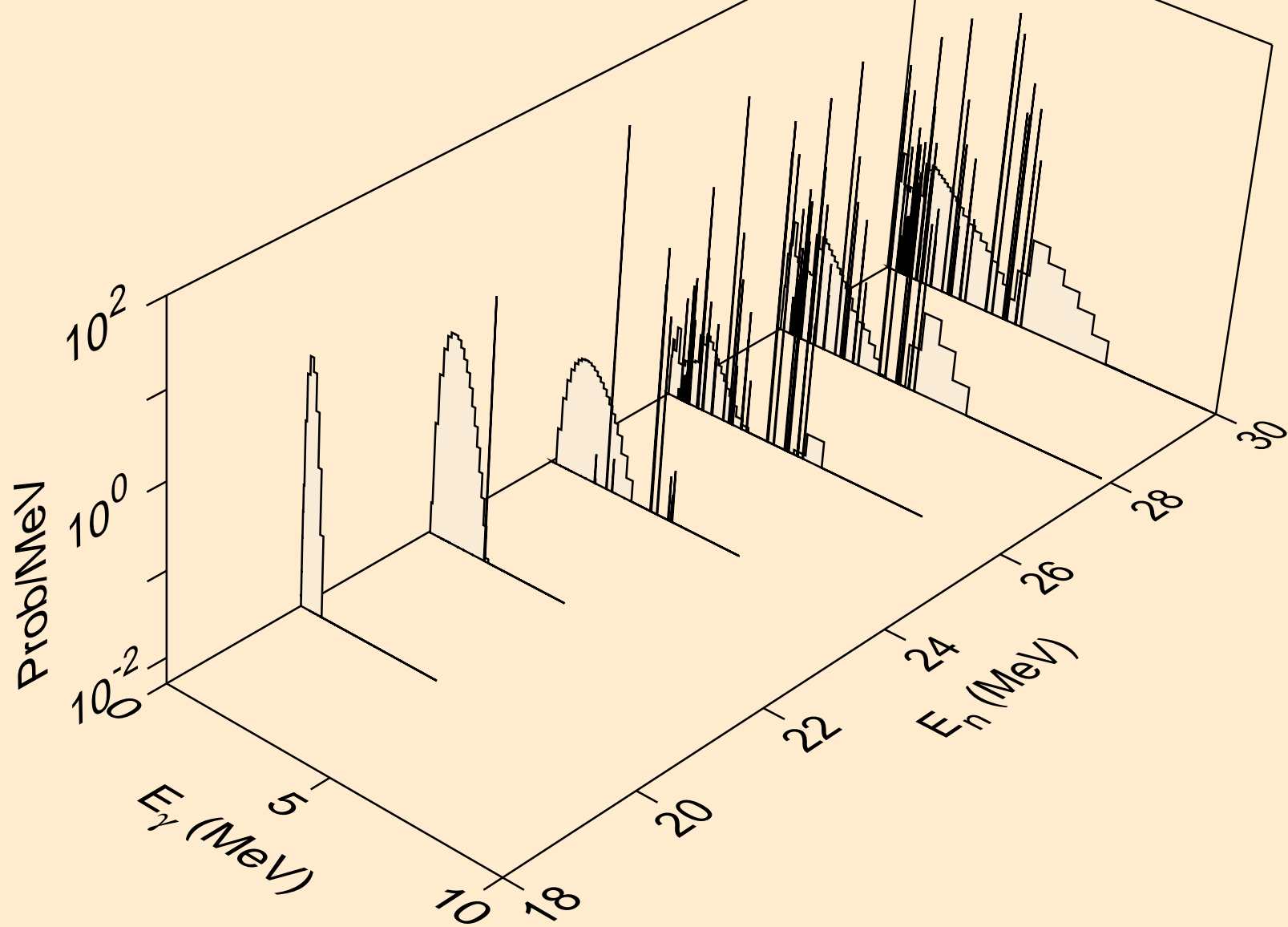
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



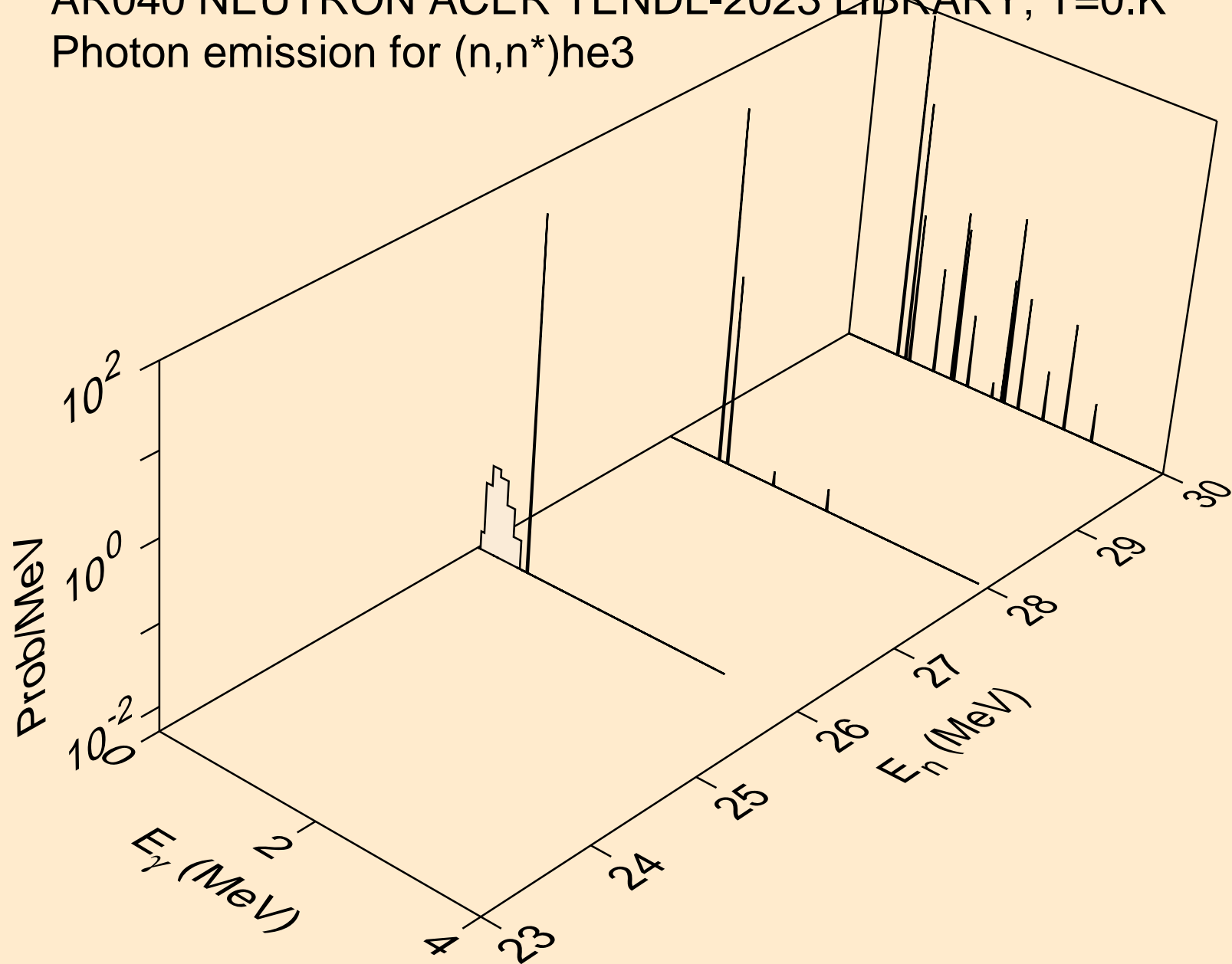
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



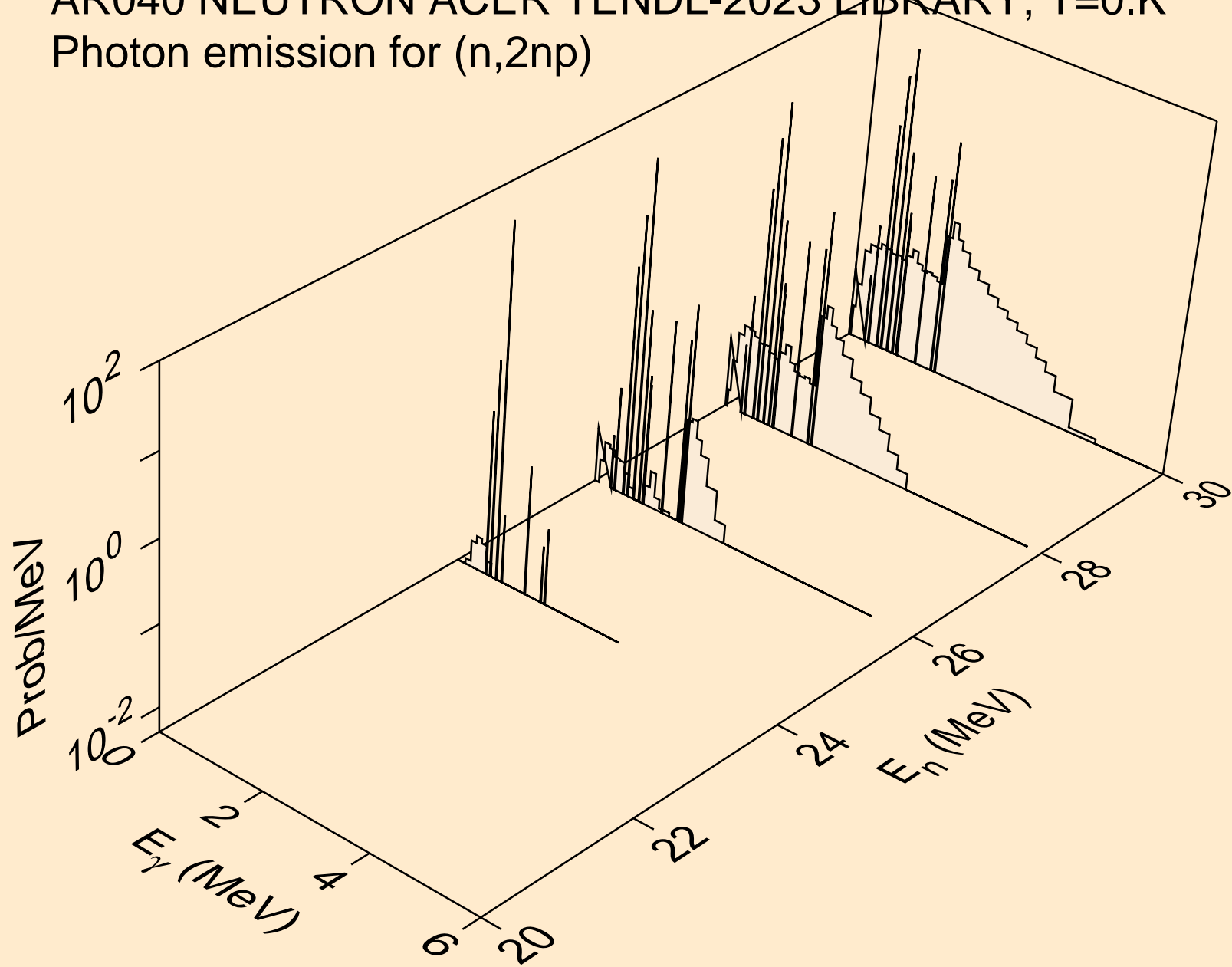
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



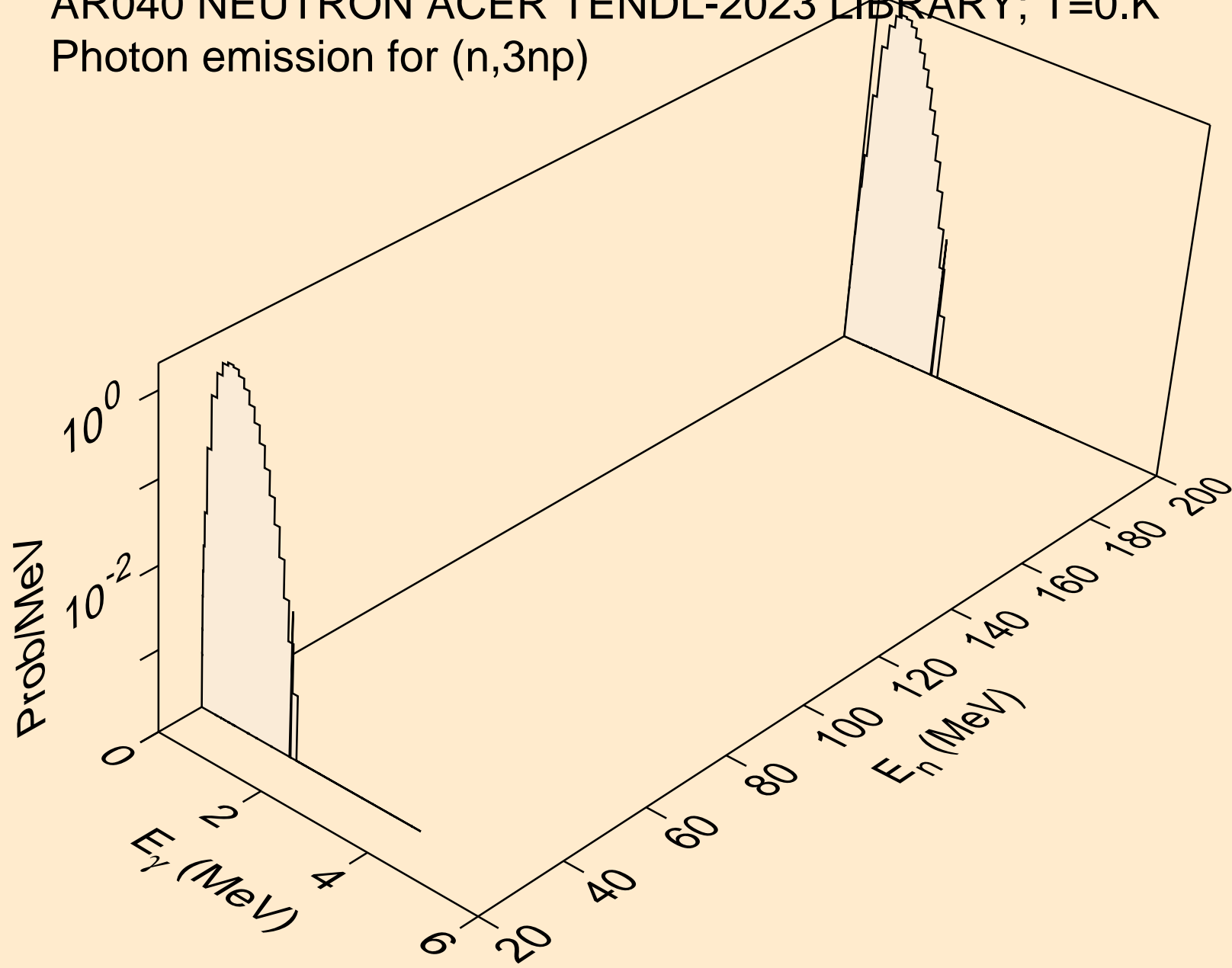
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)

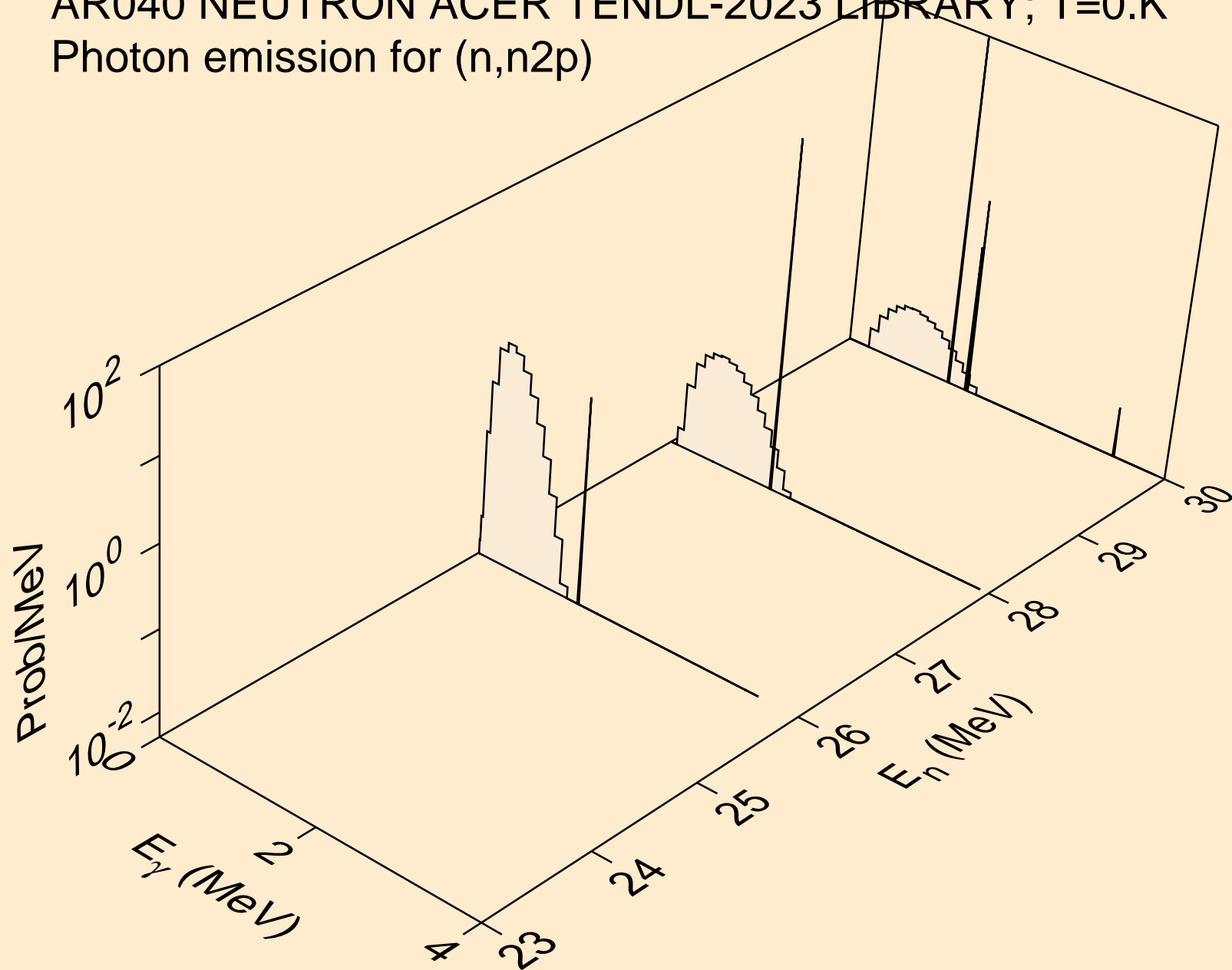


AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)

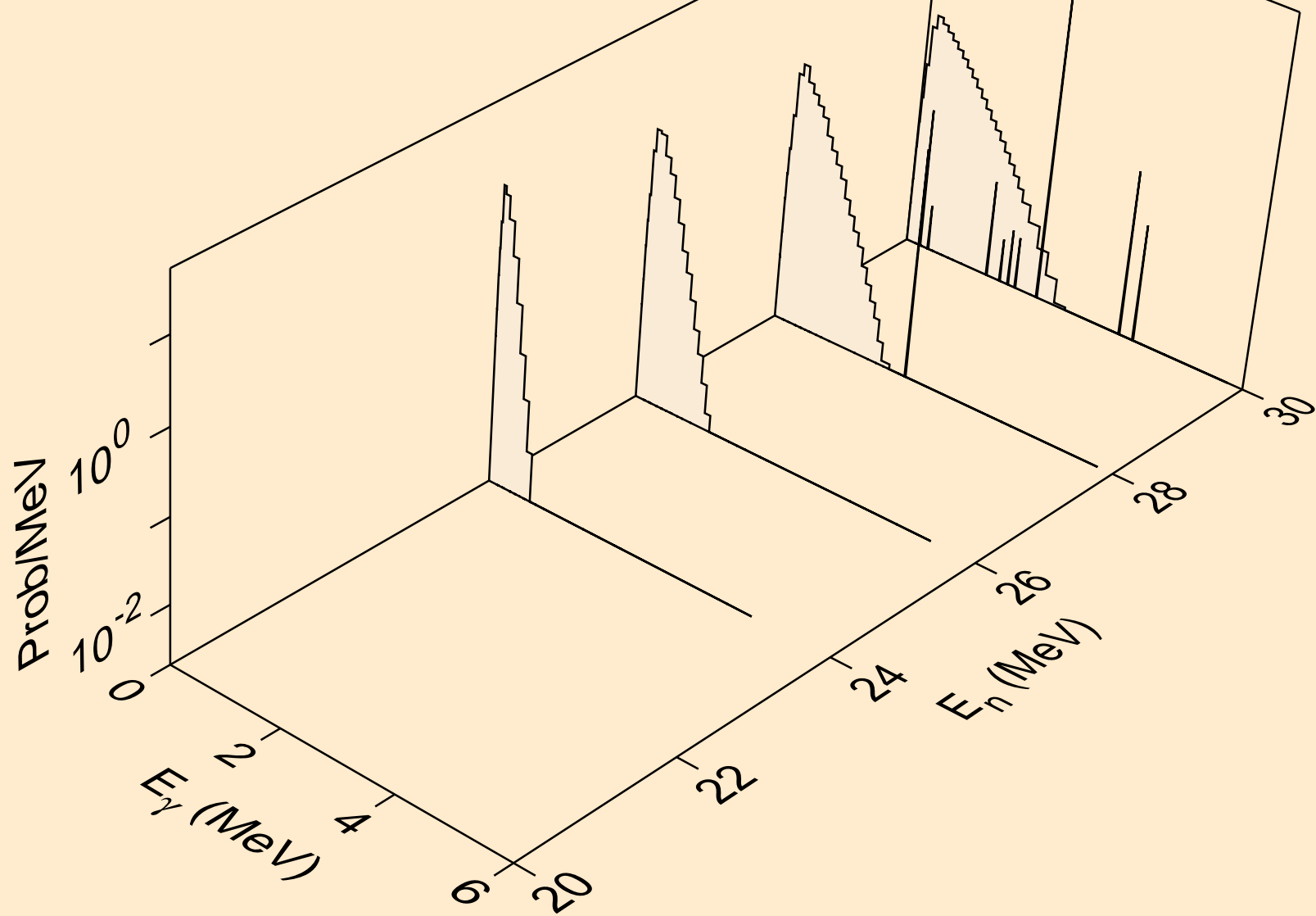




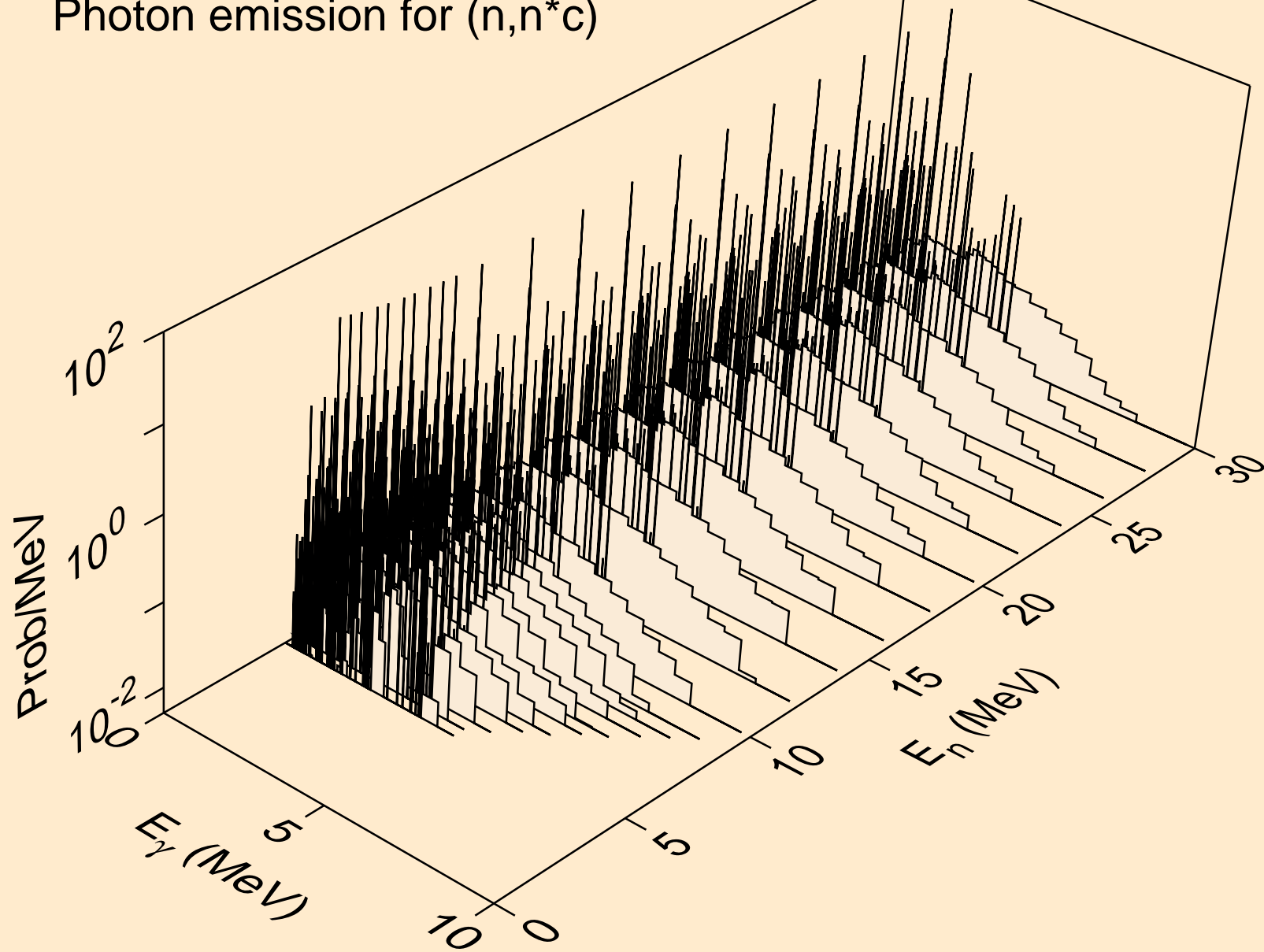
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



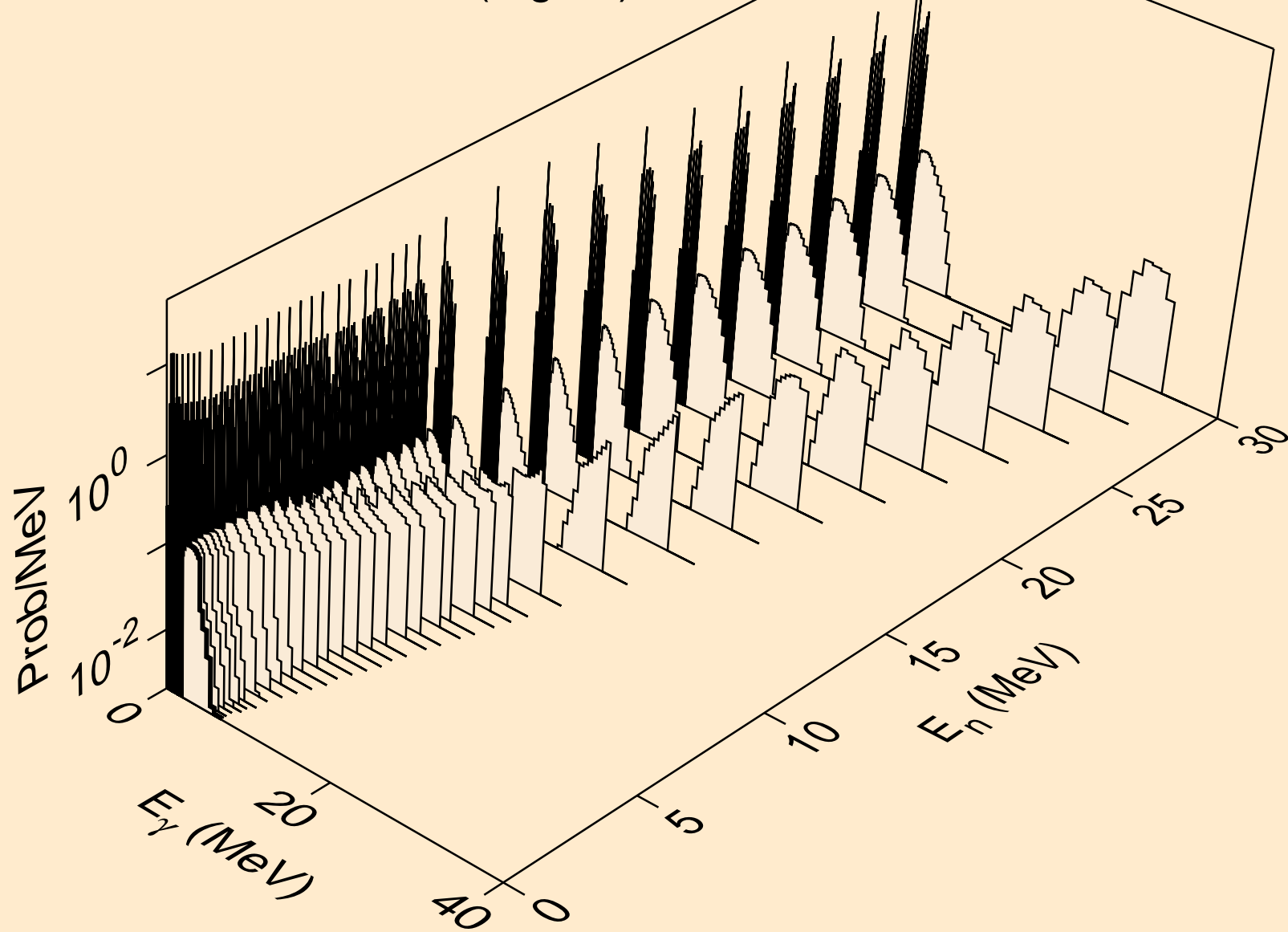
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



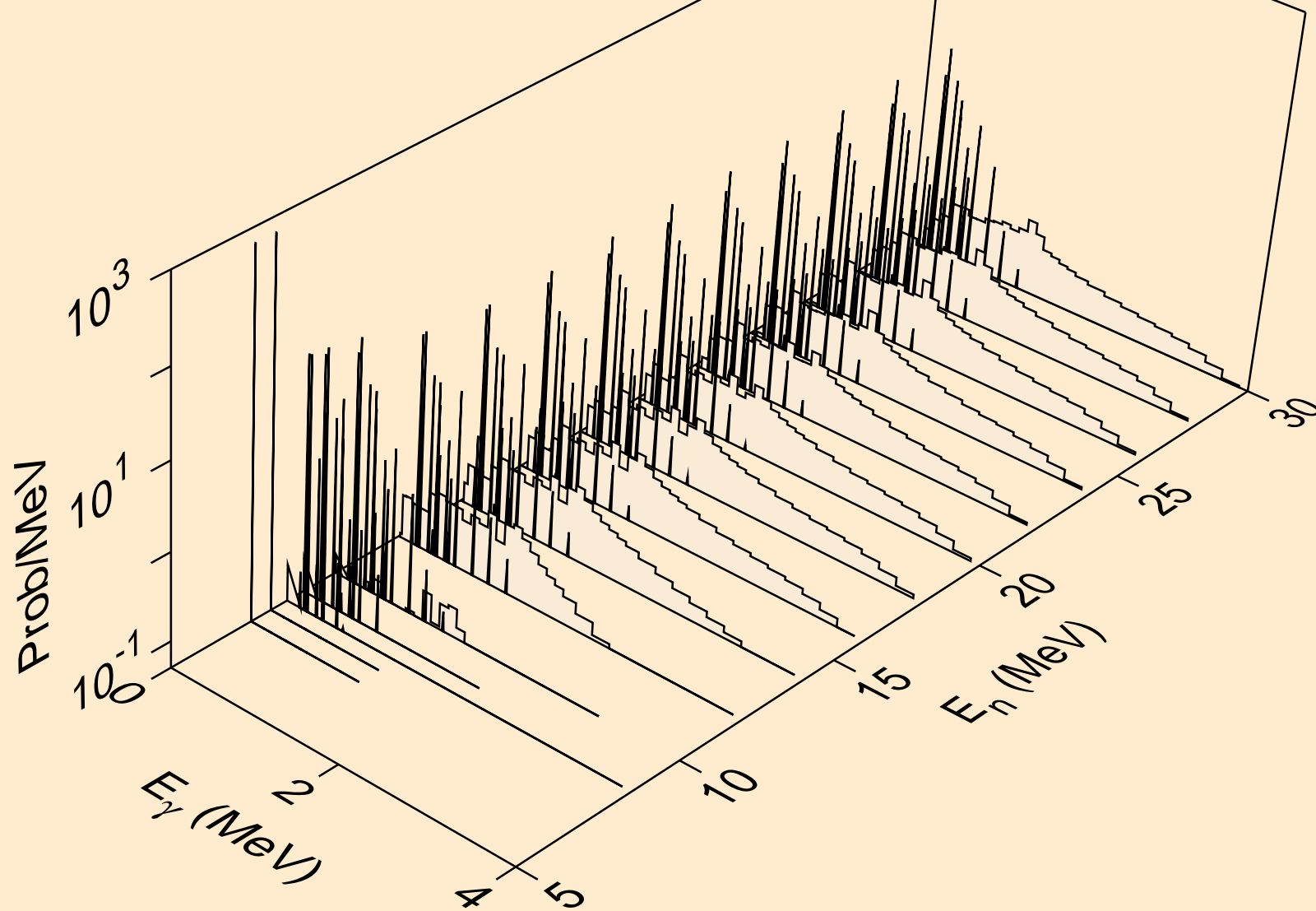
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



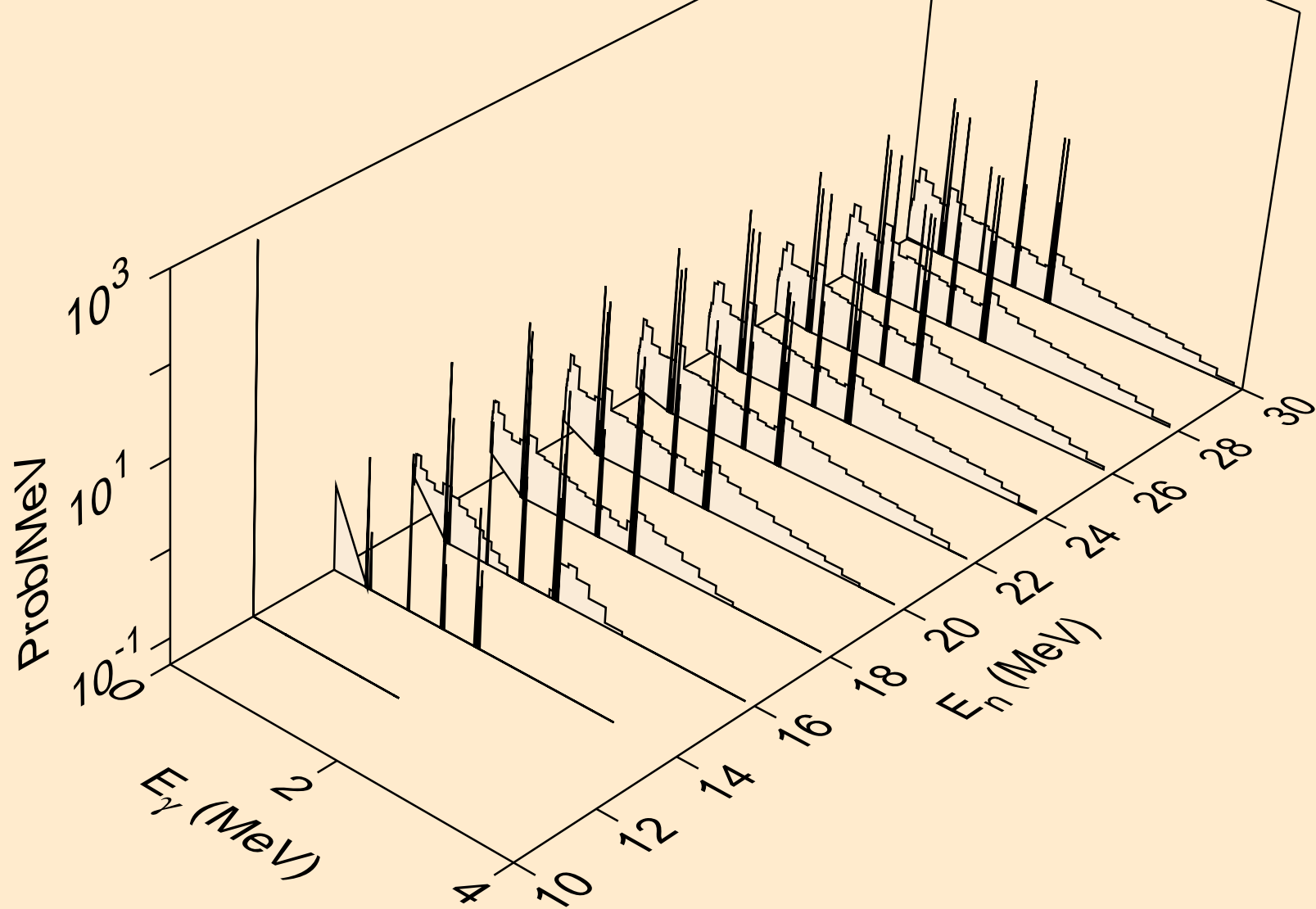
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



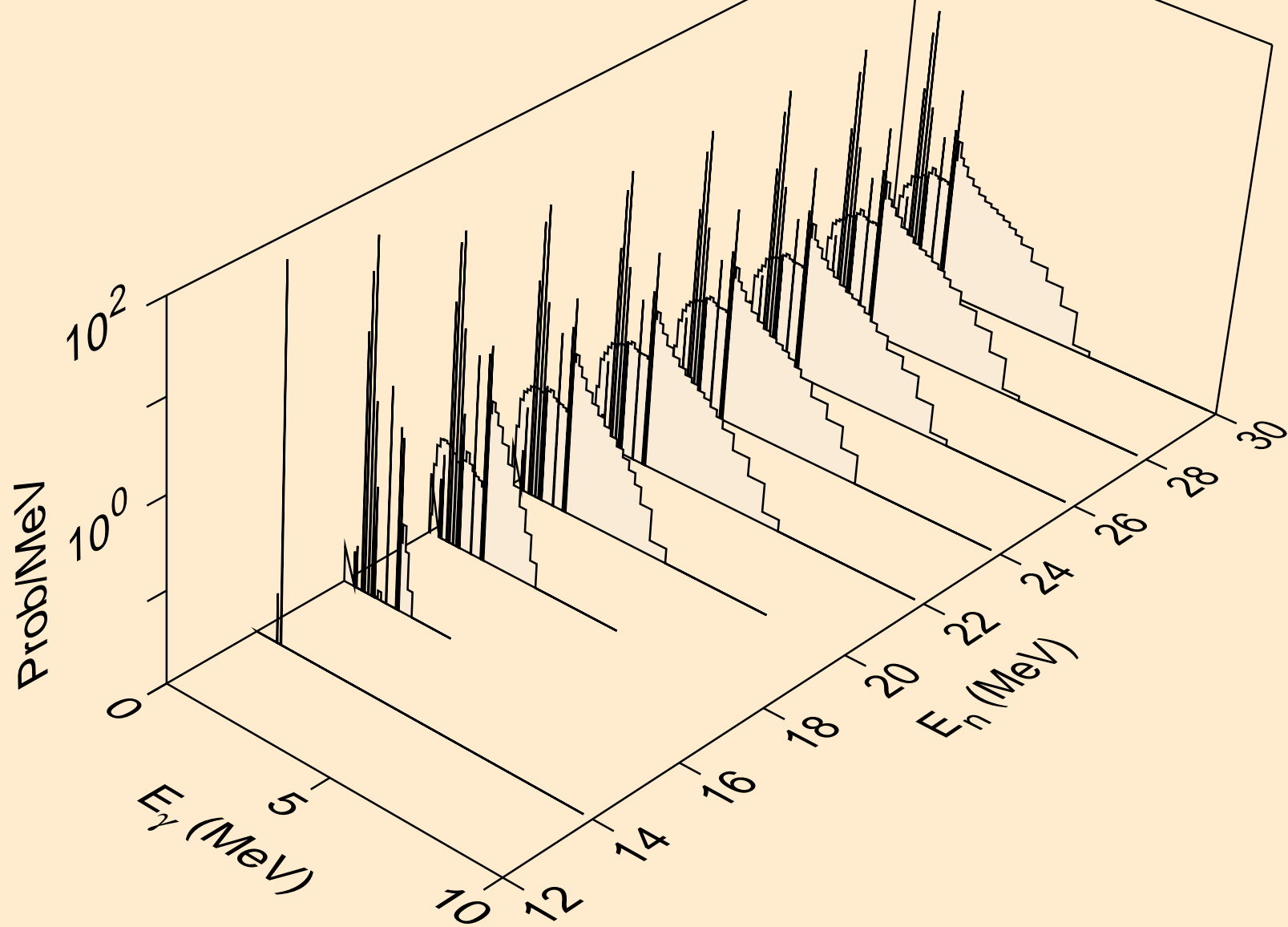
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



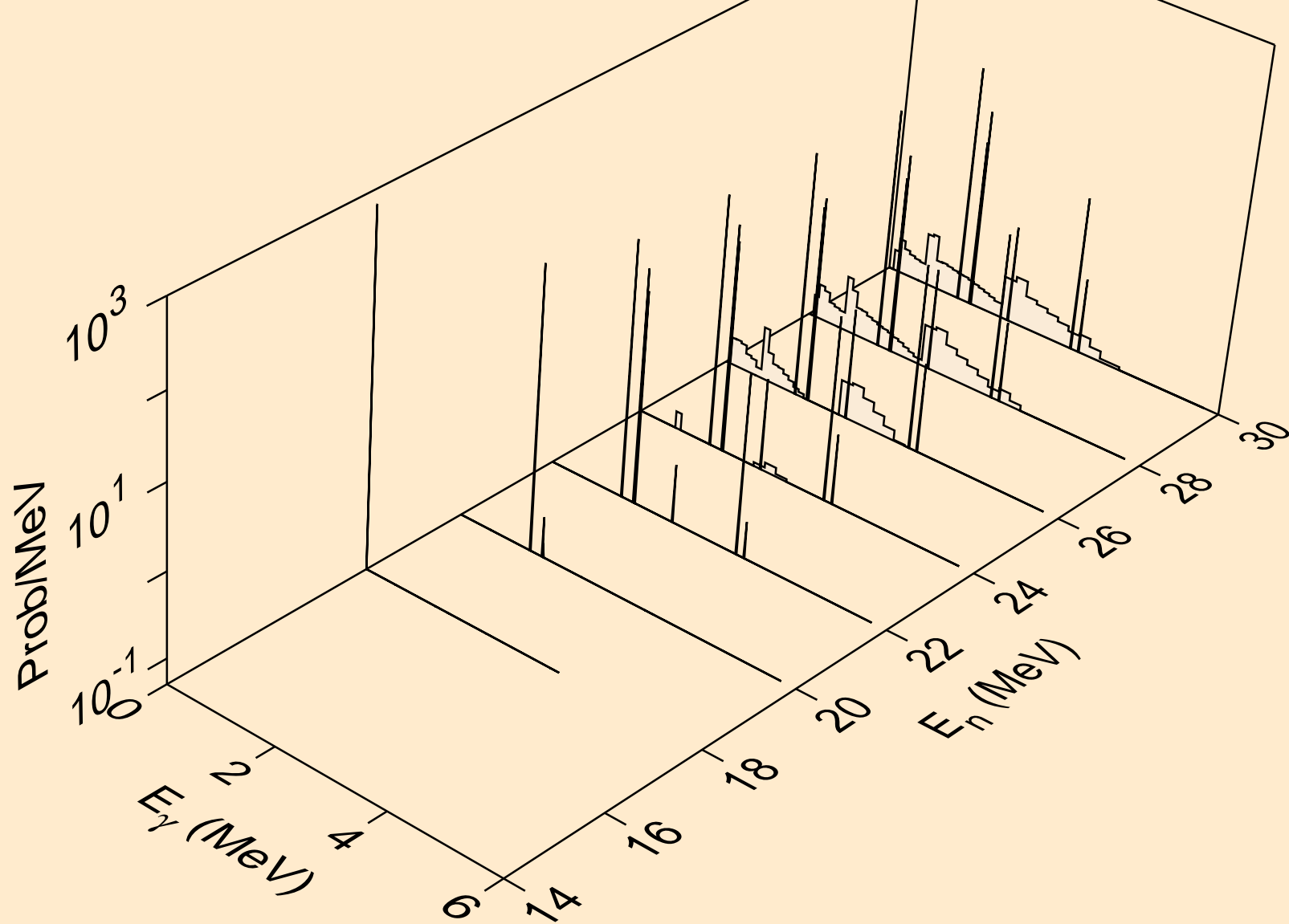
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

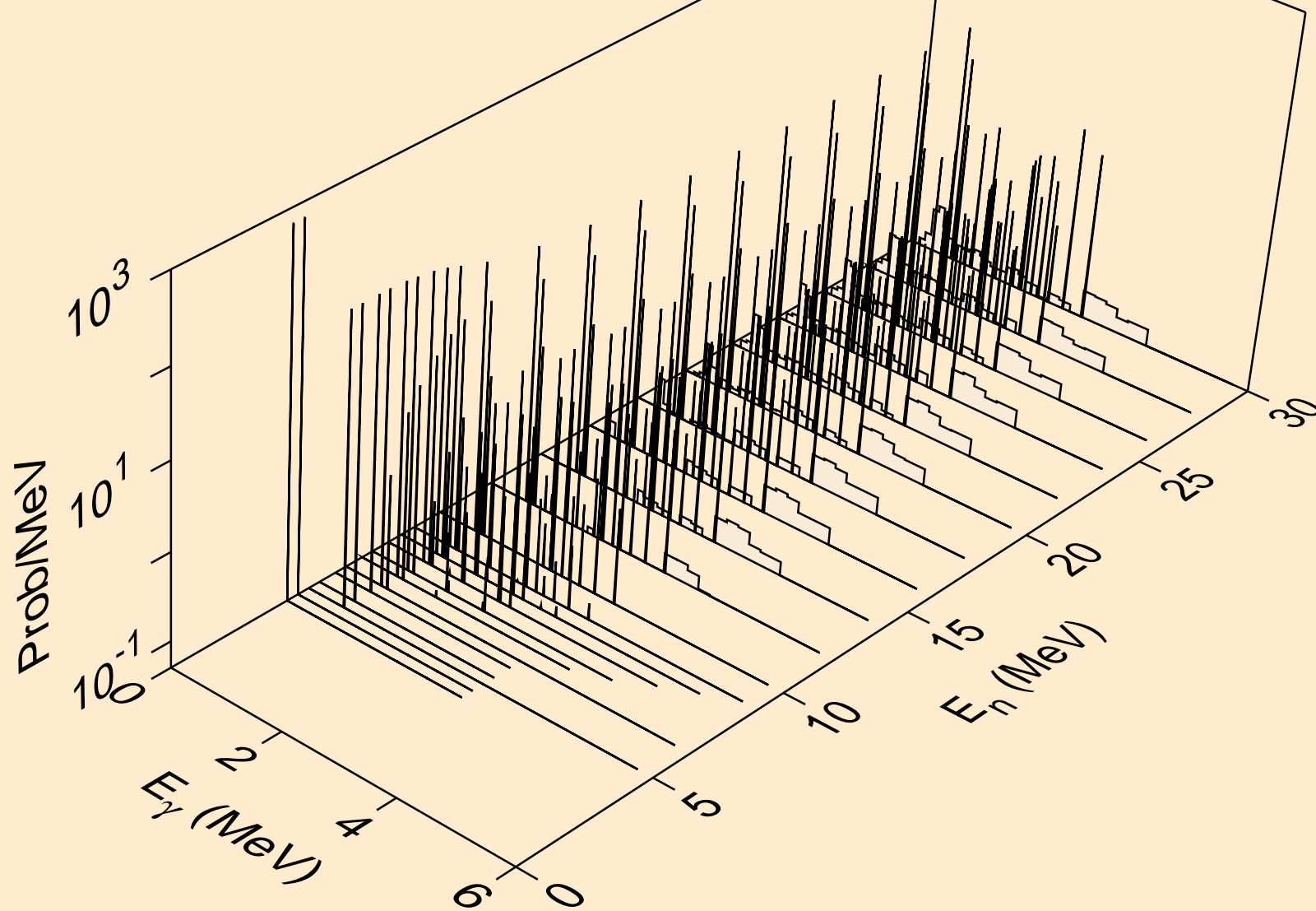


AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

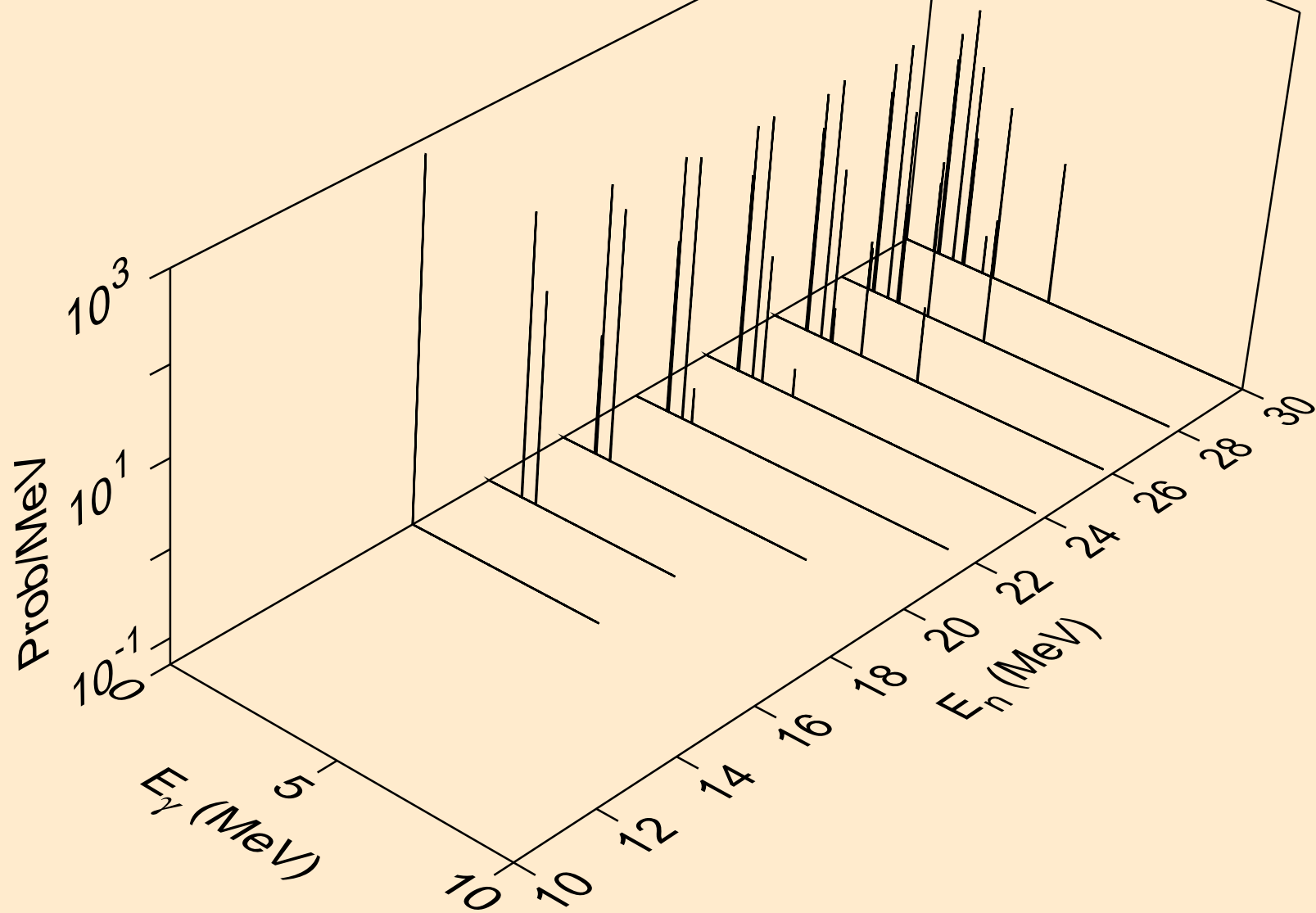




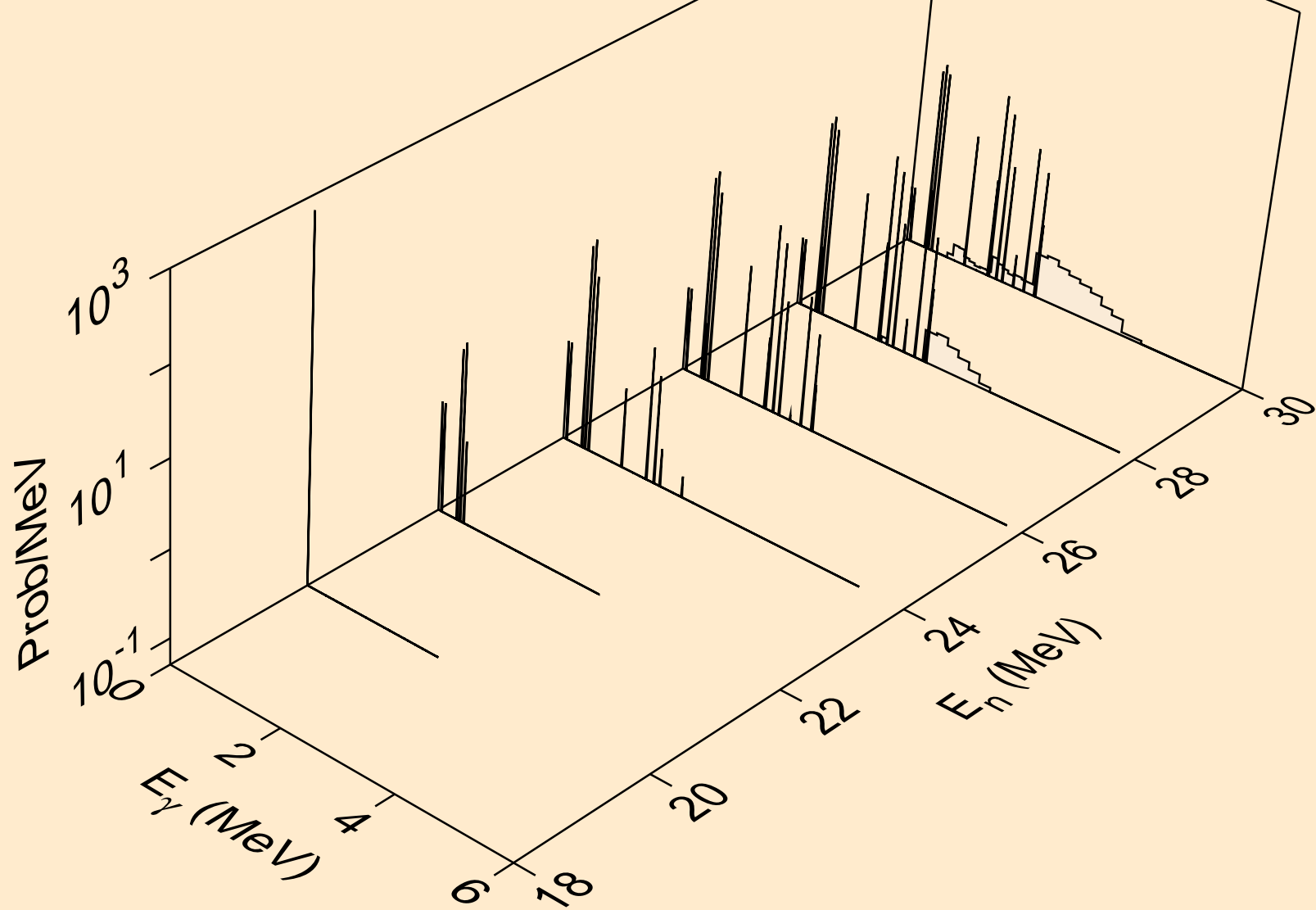
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



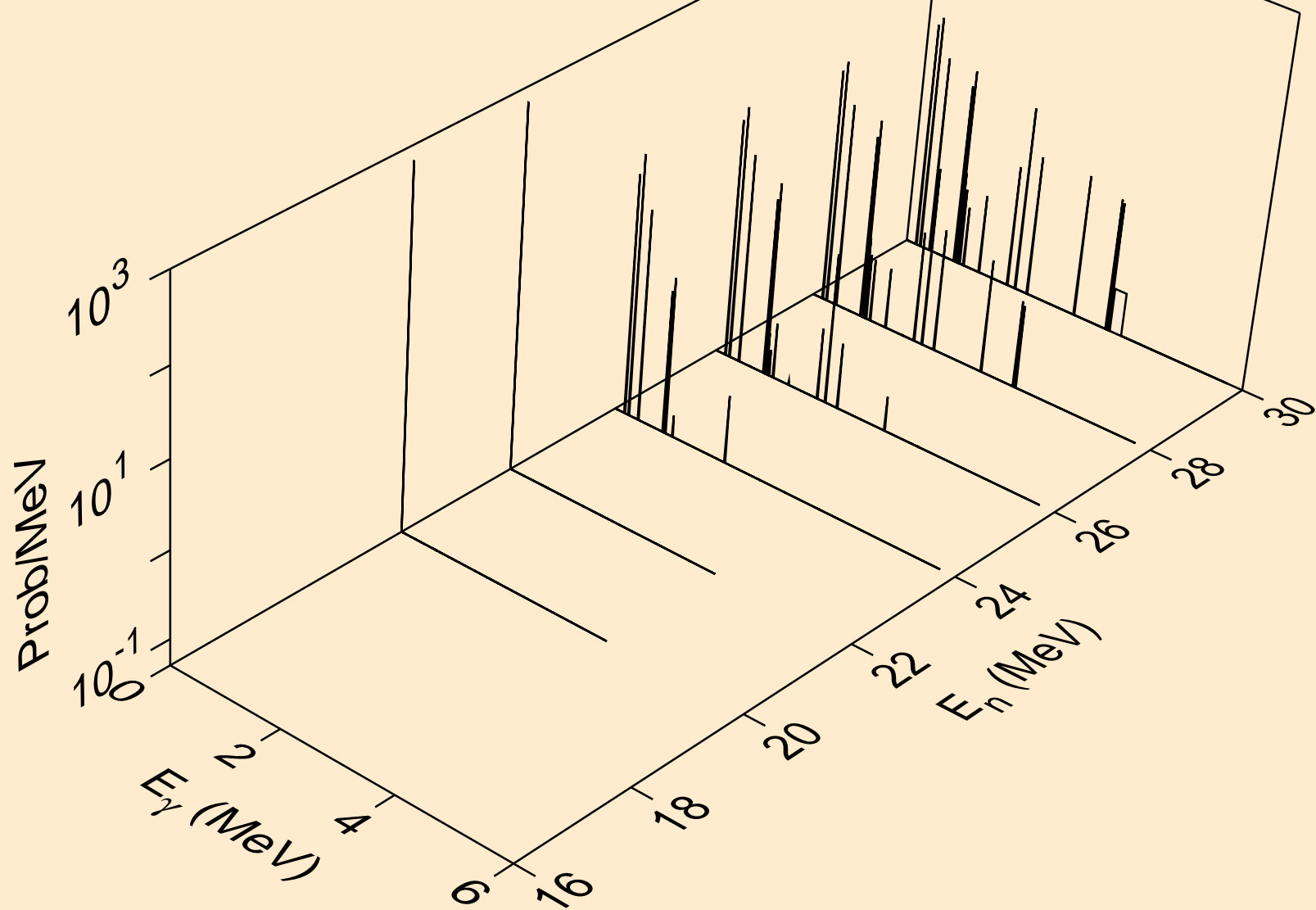
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



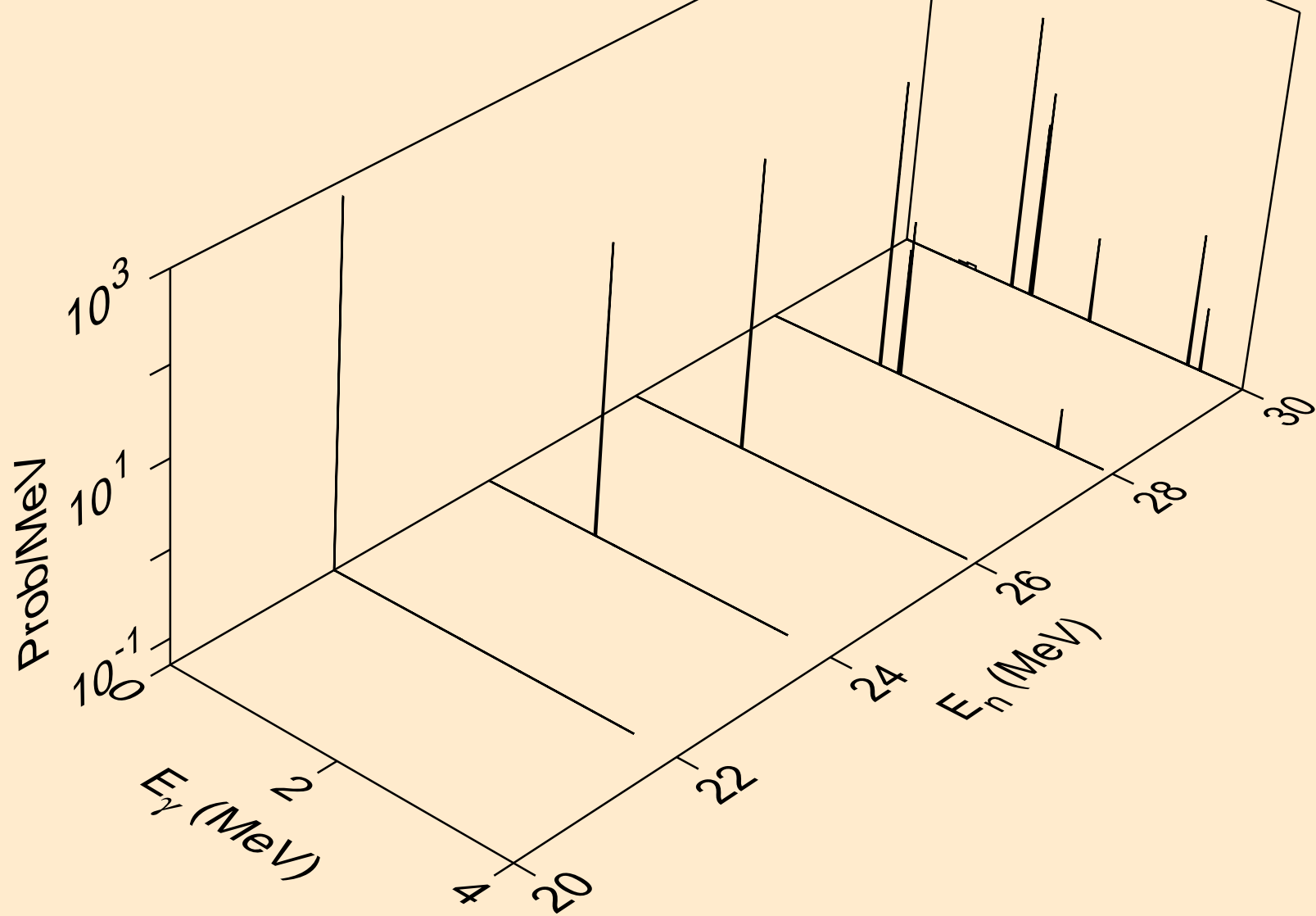
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Photon emission for (n,2p)



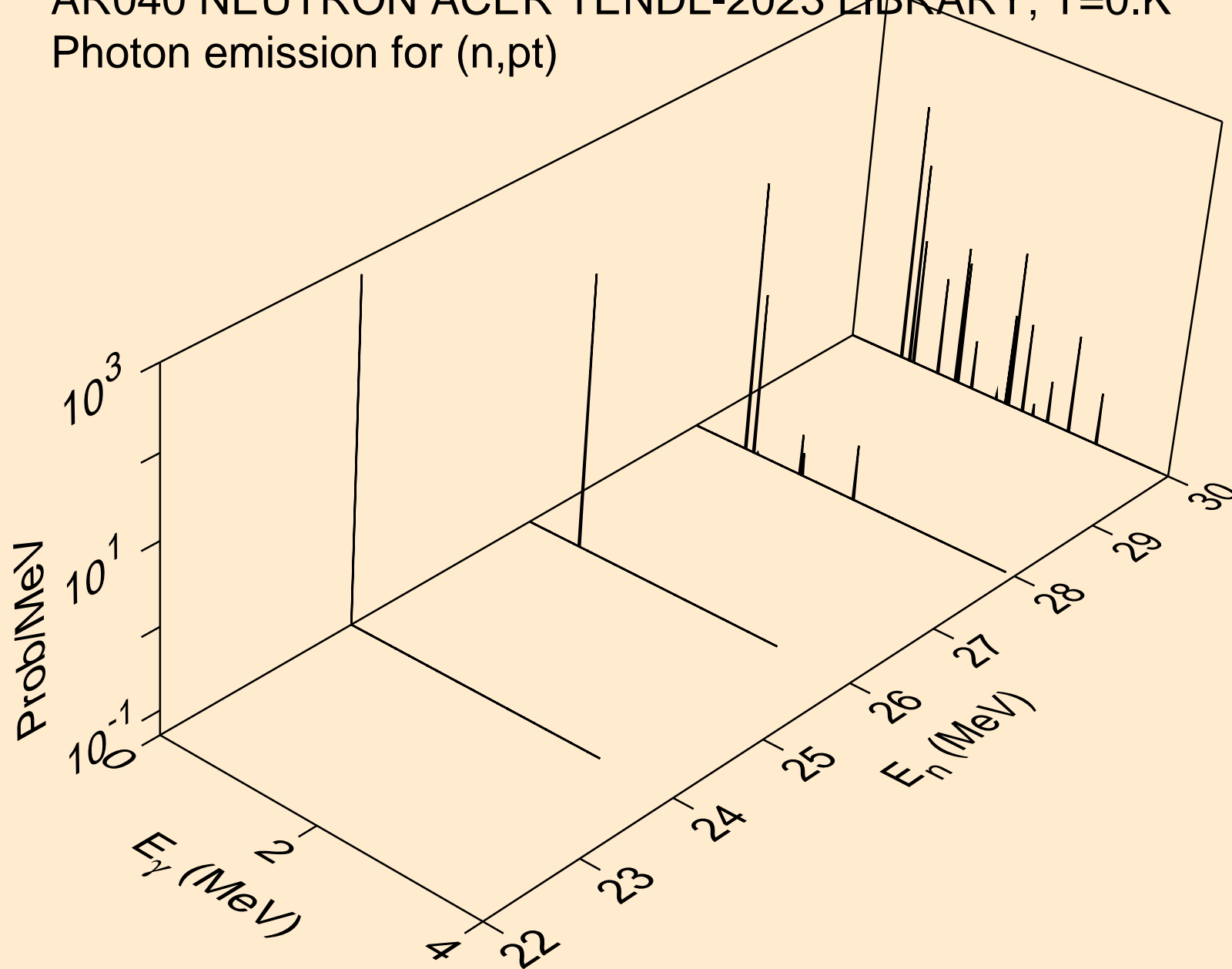
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



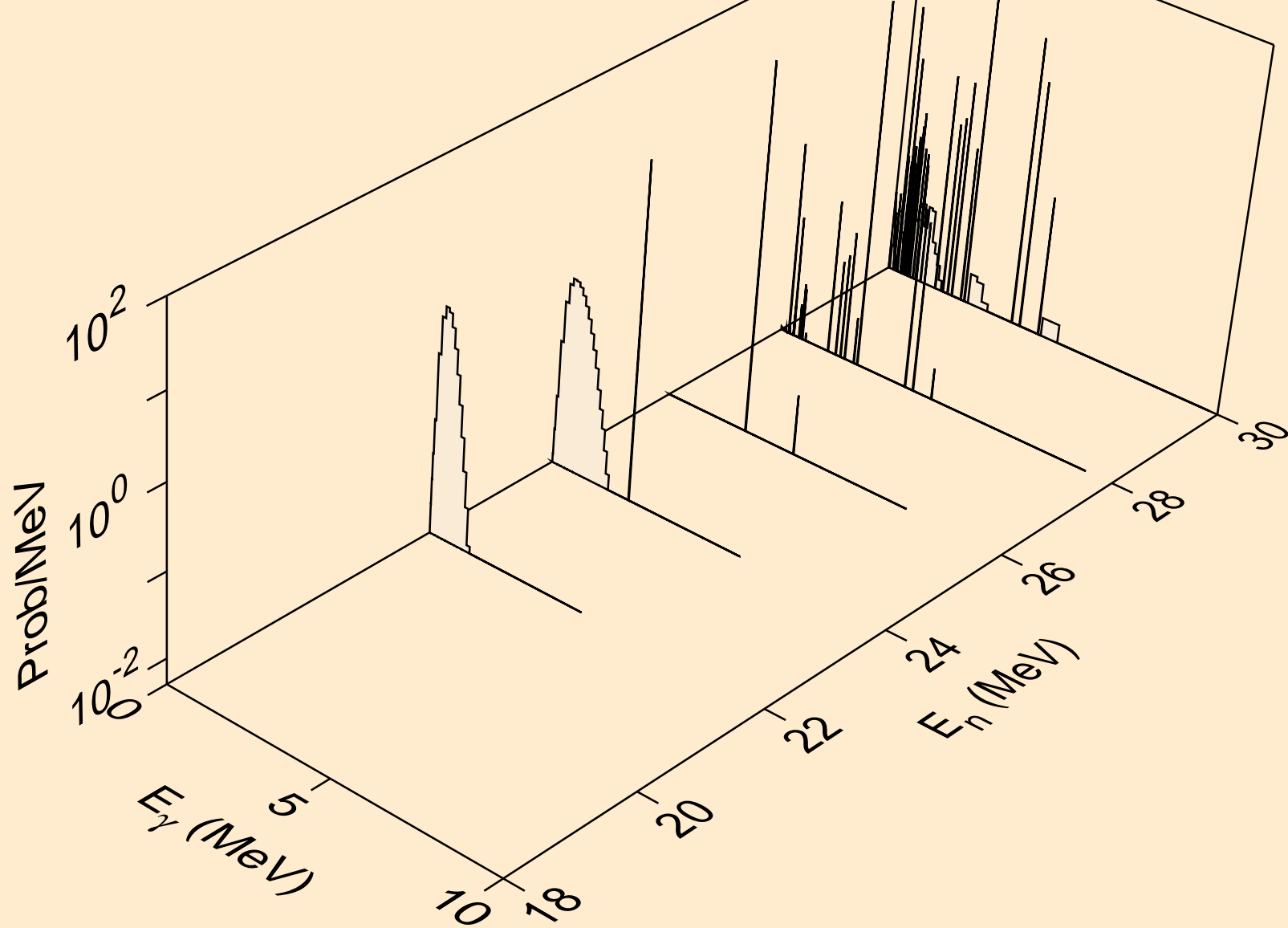
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



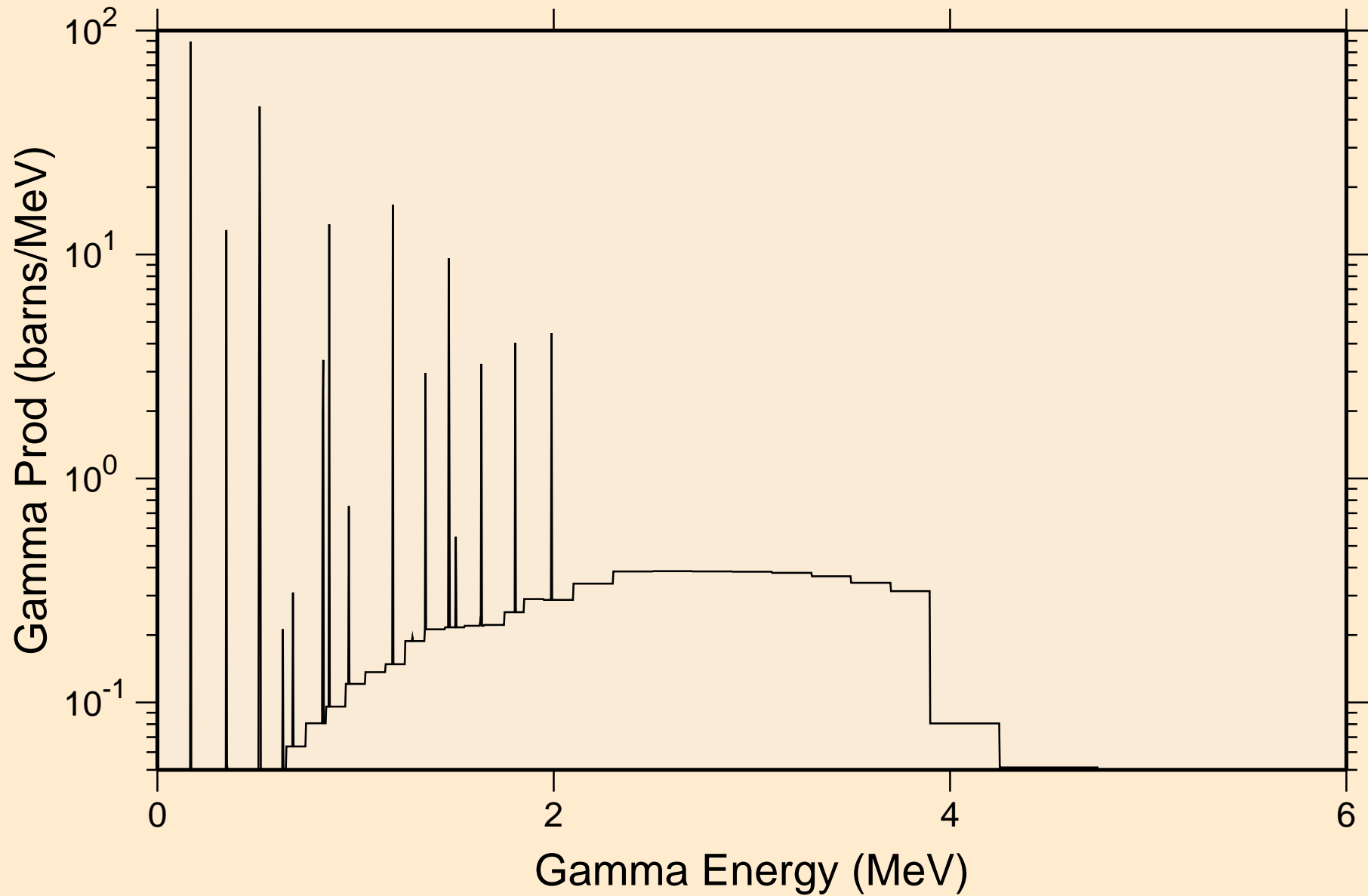
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

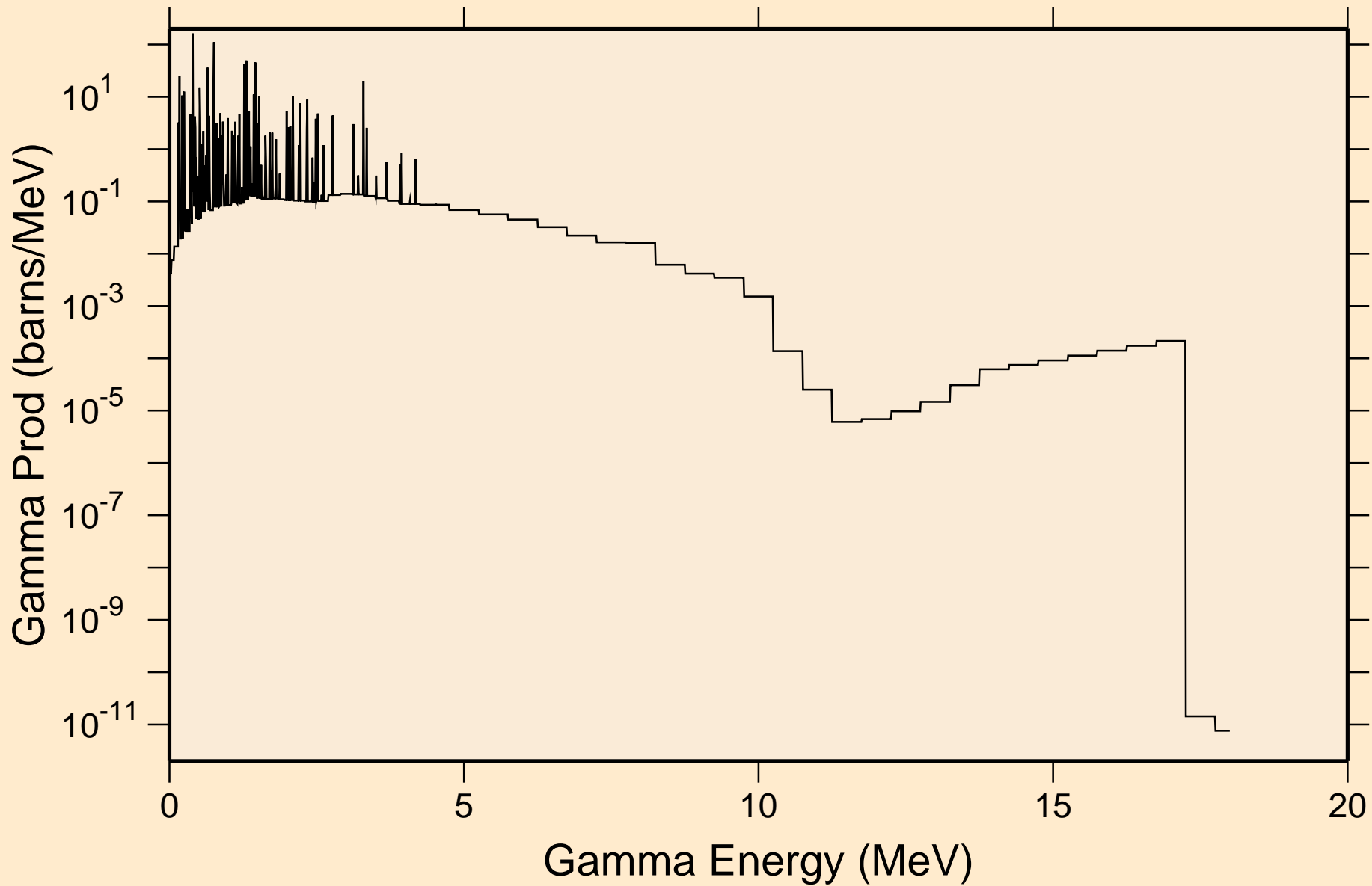


AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

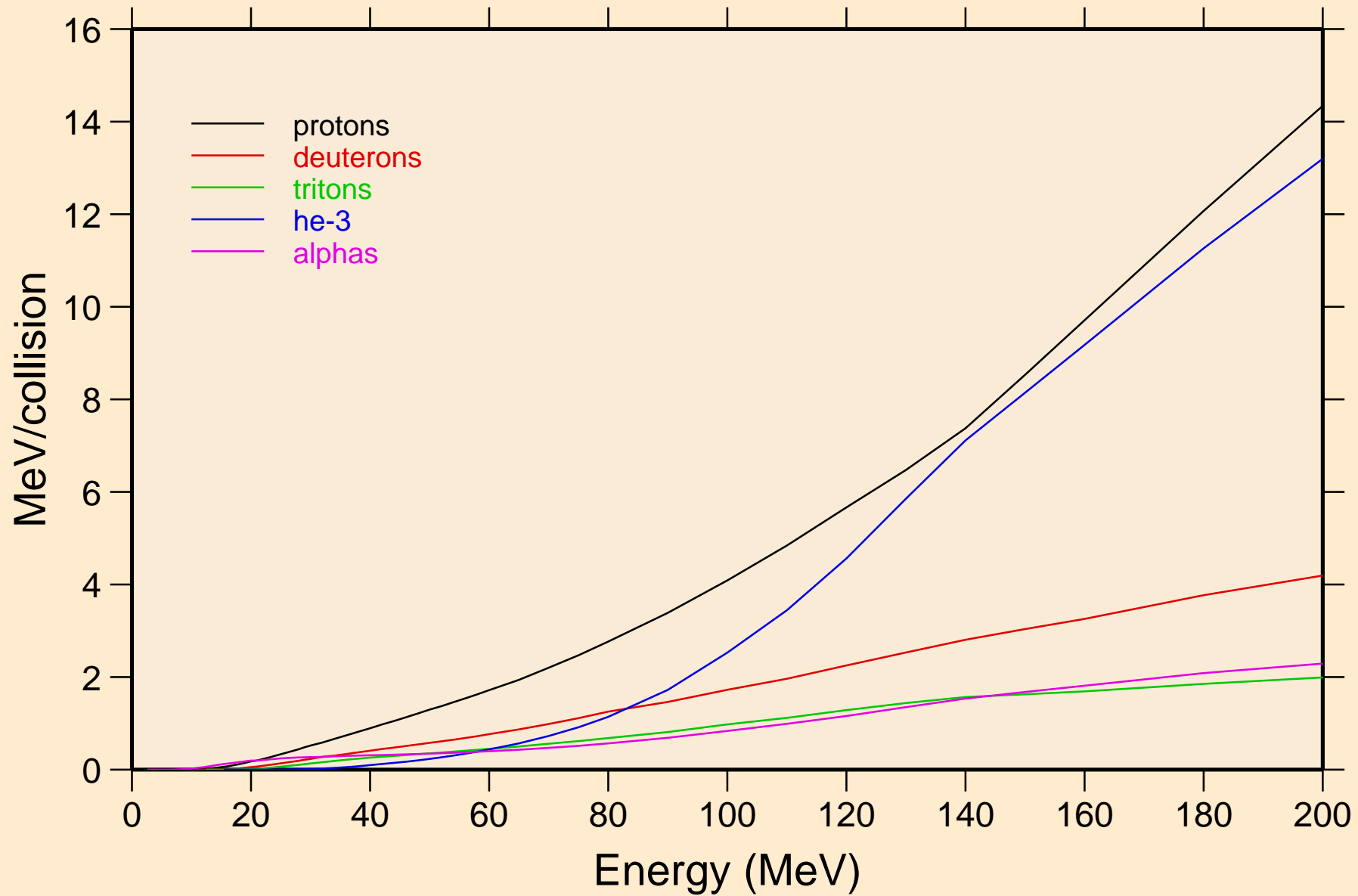




AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

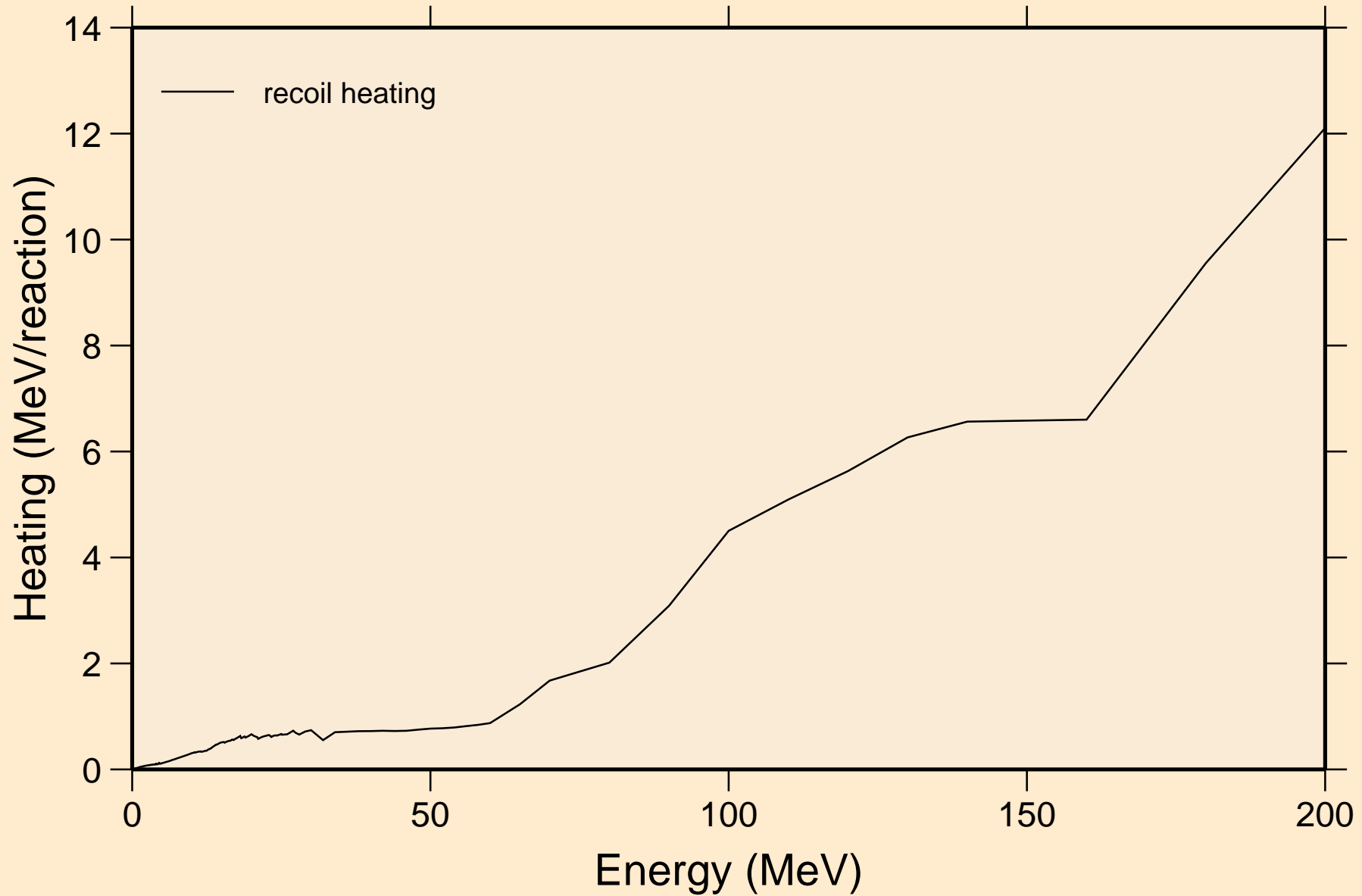


AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions

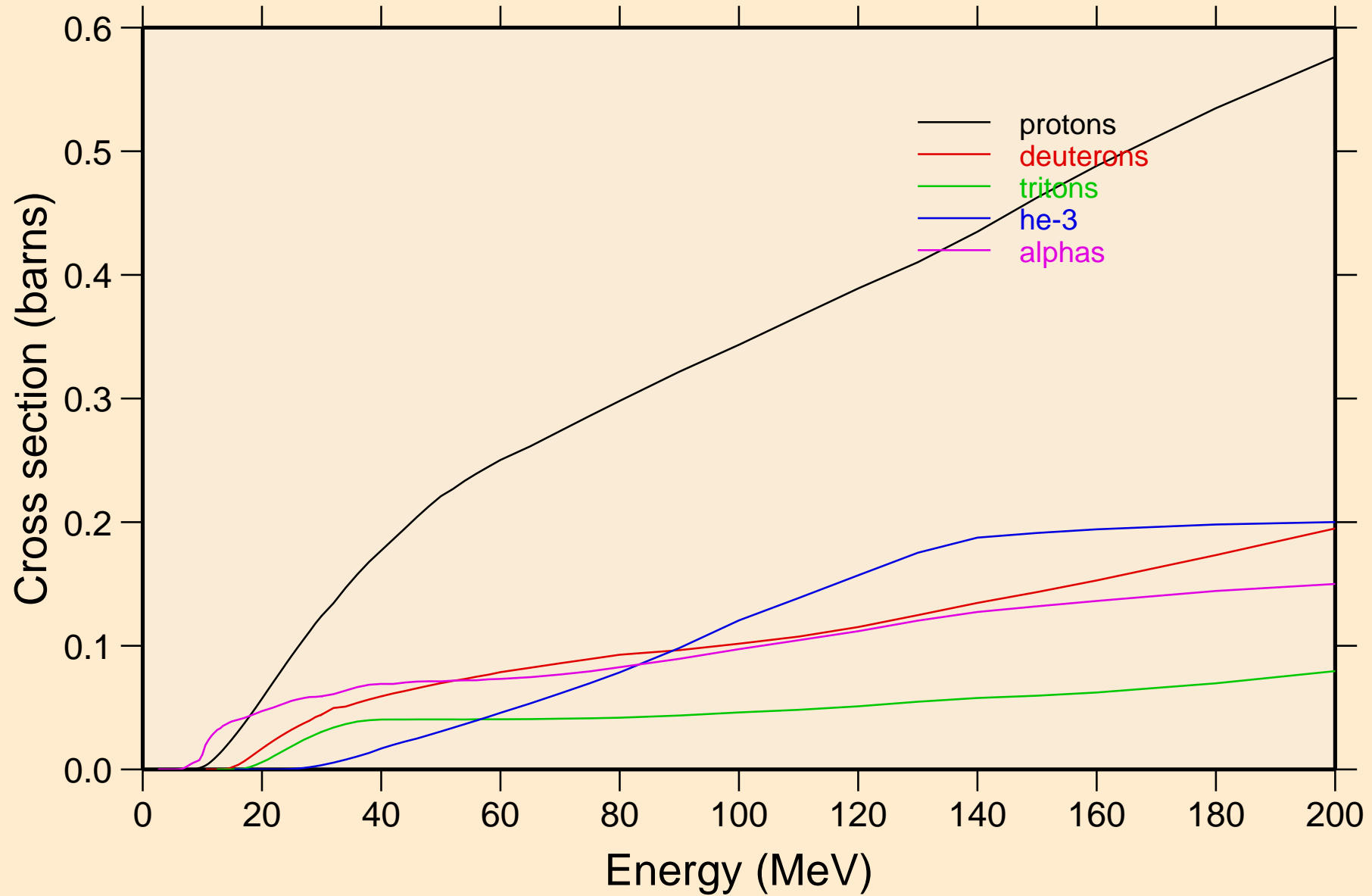


# AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

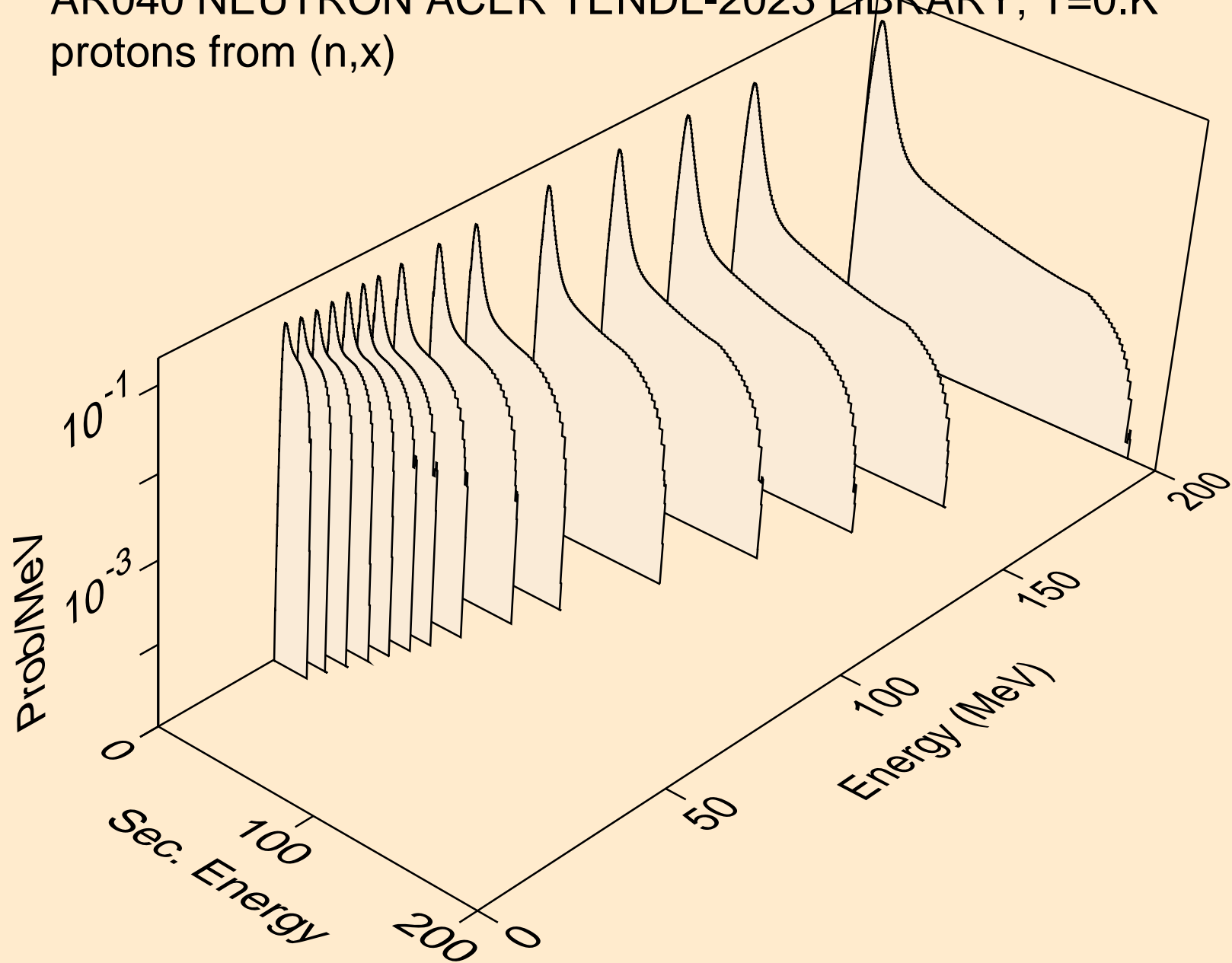
## Recoil Heating



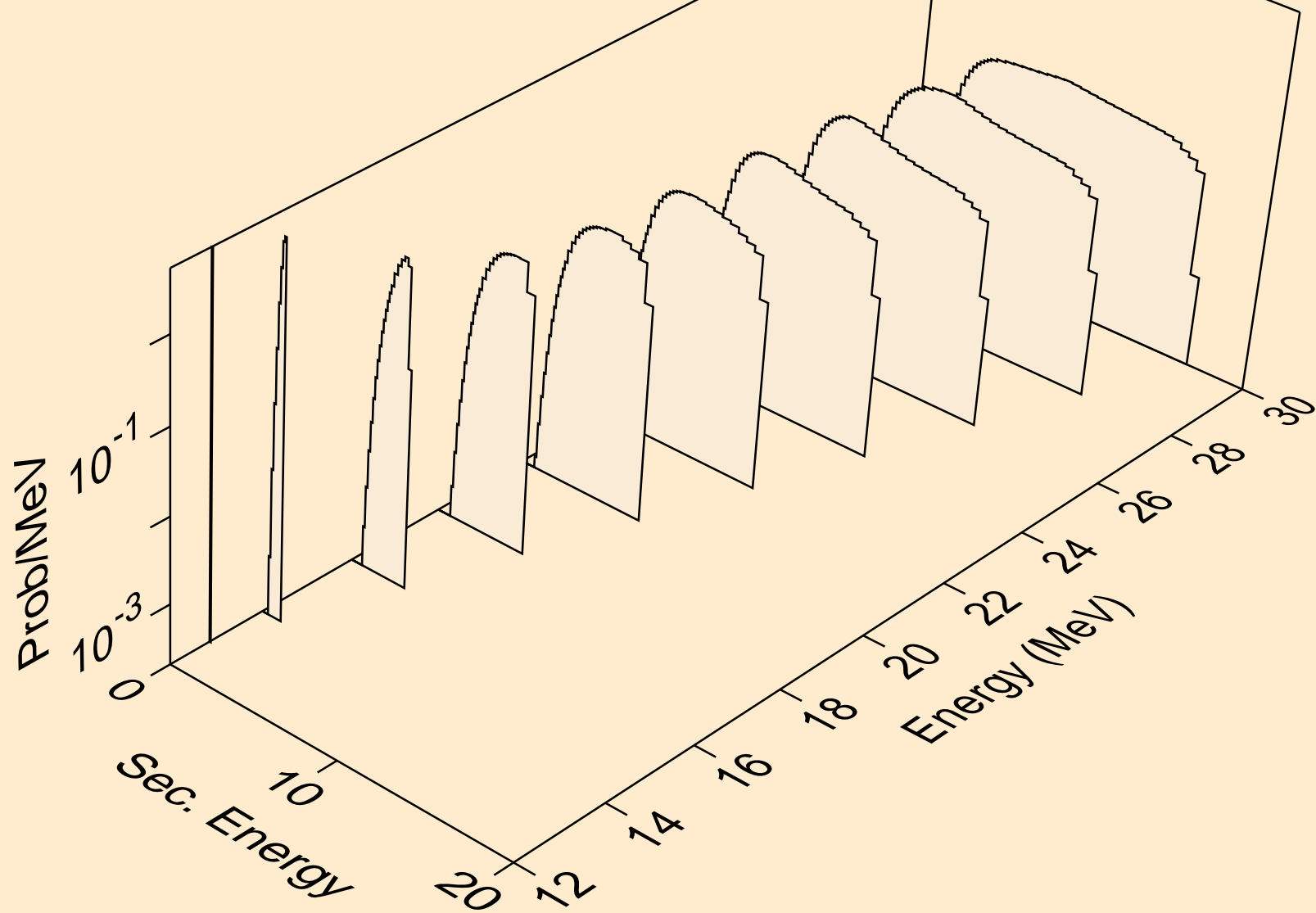
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



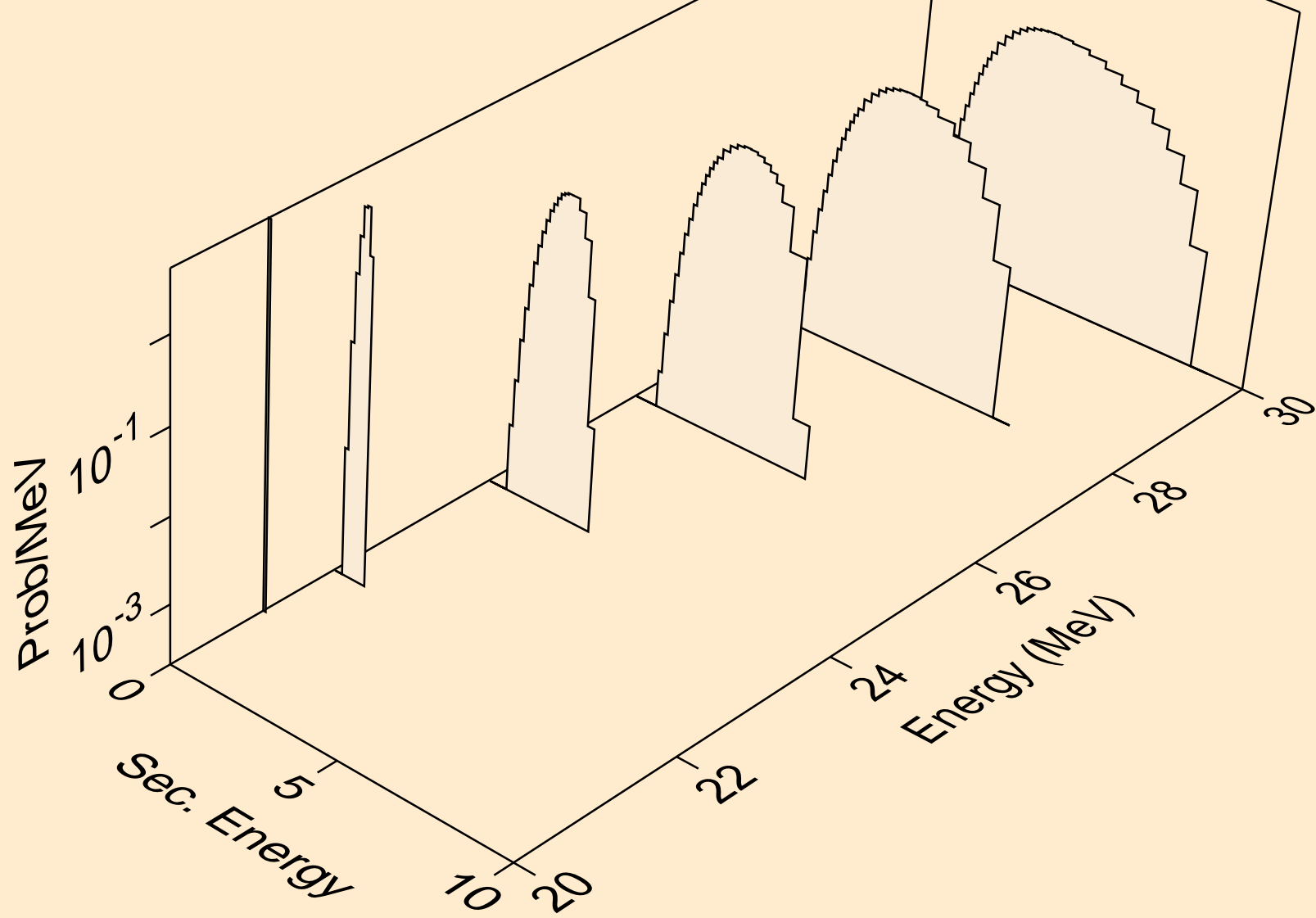
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



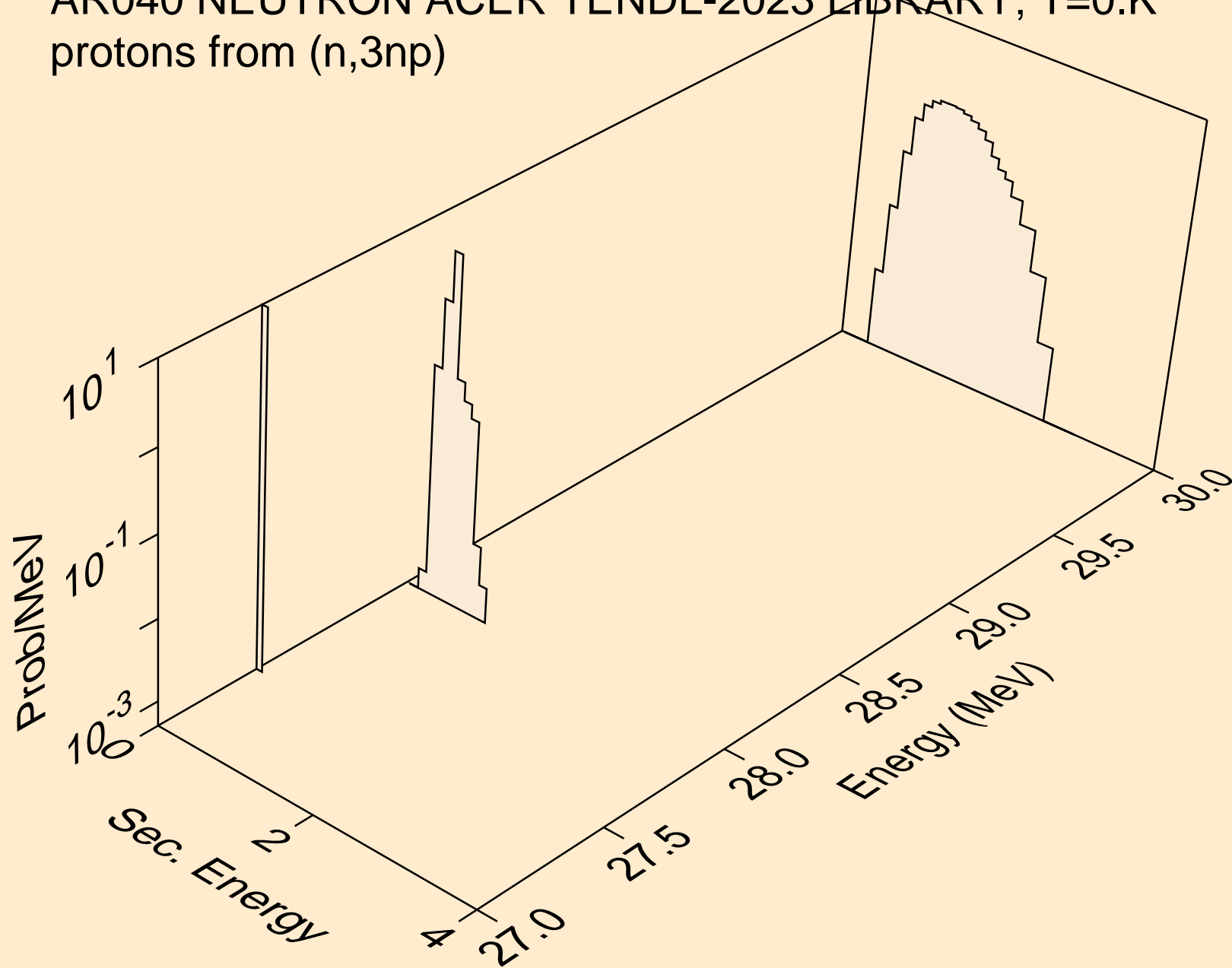
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)

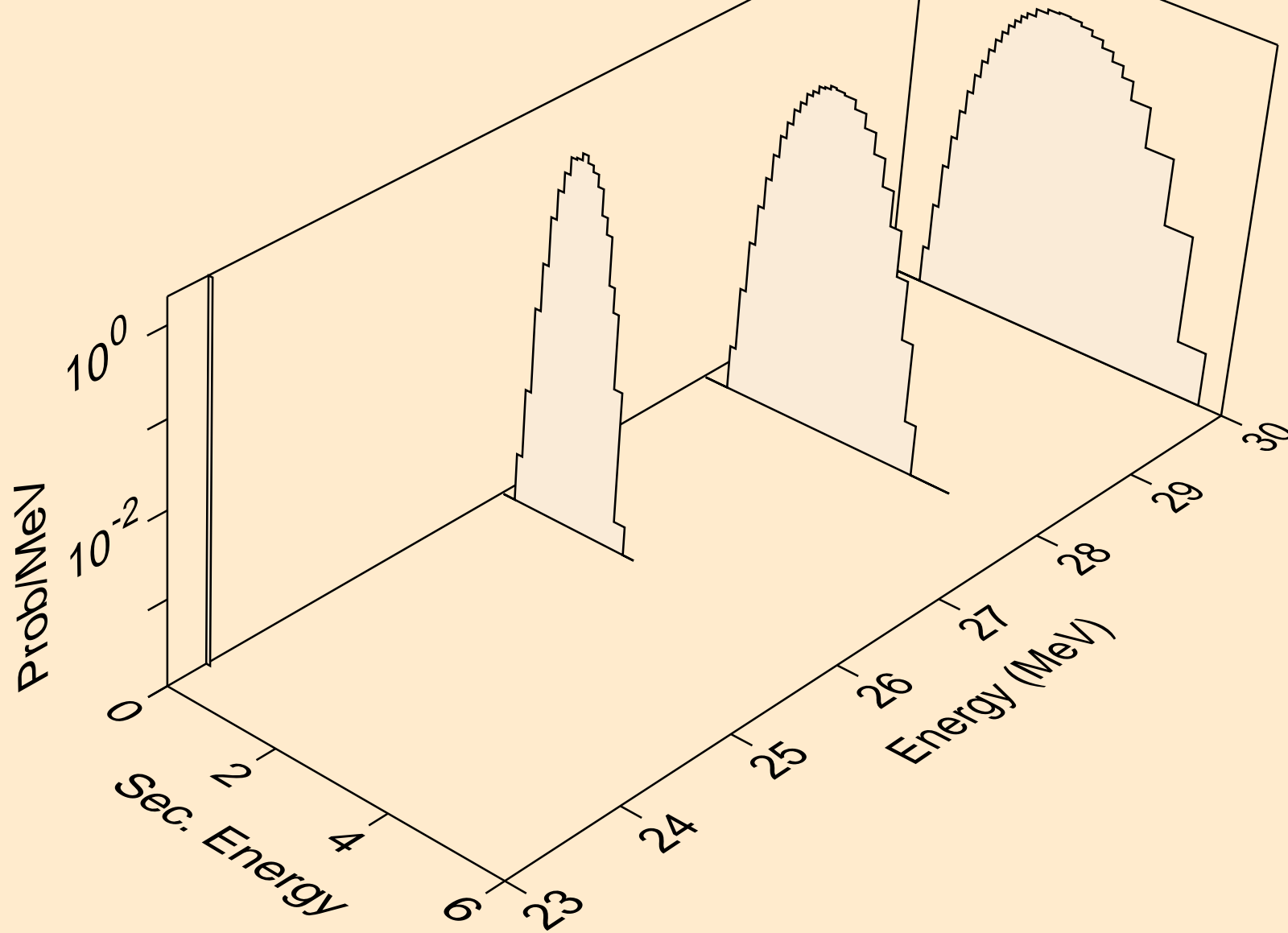


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protons from (n,3np)

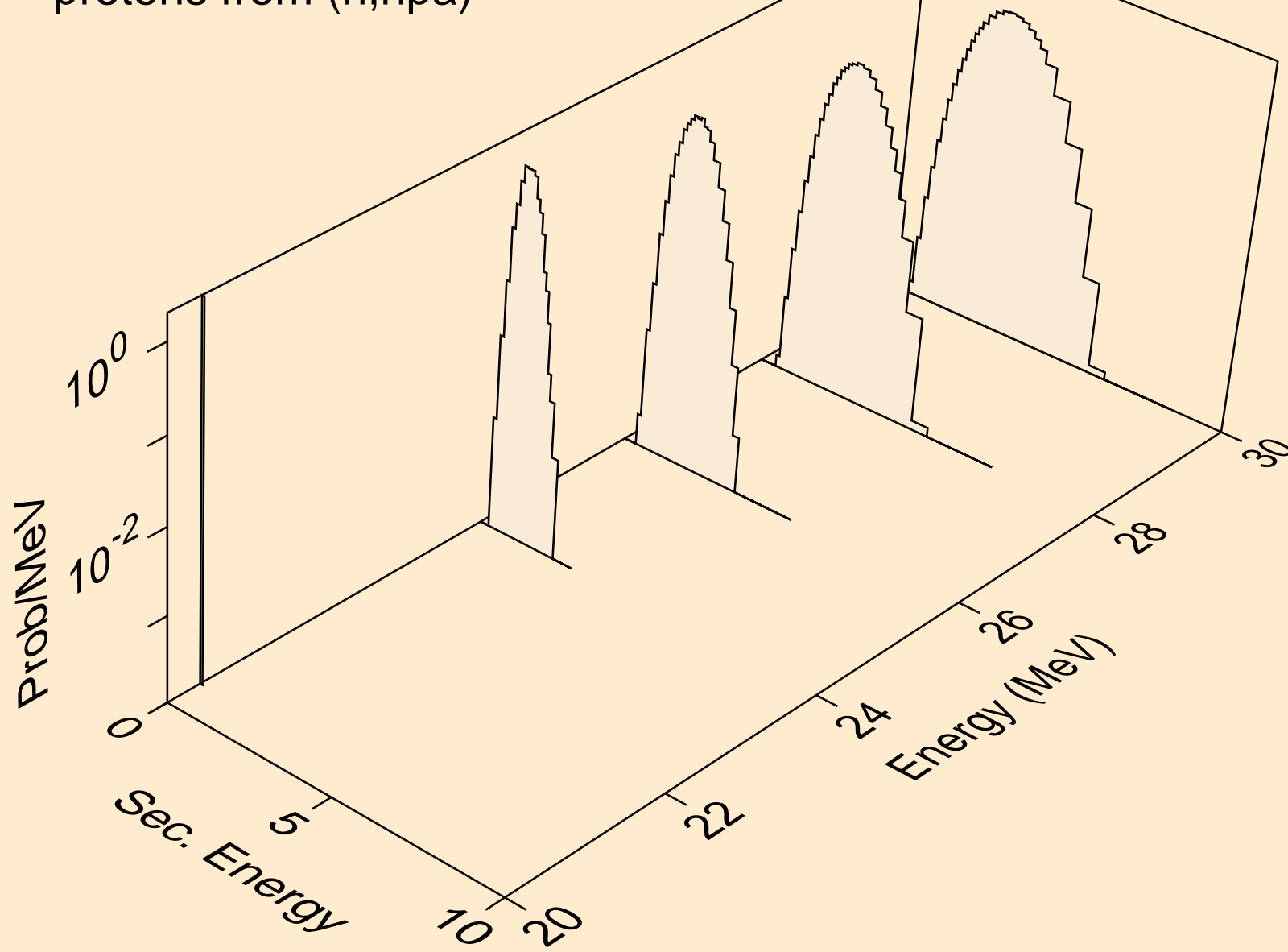




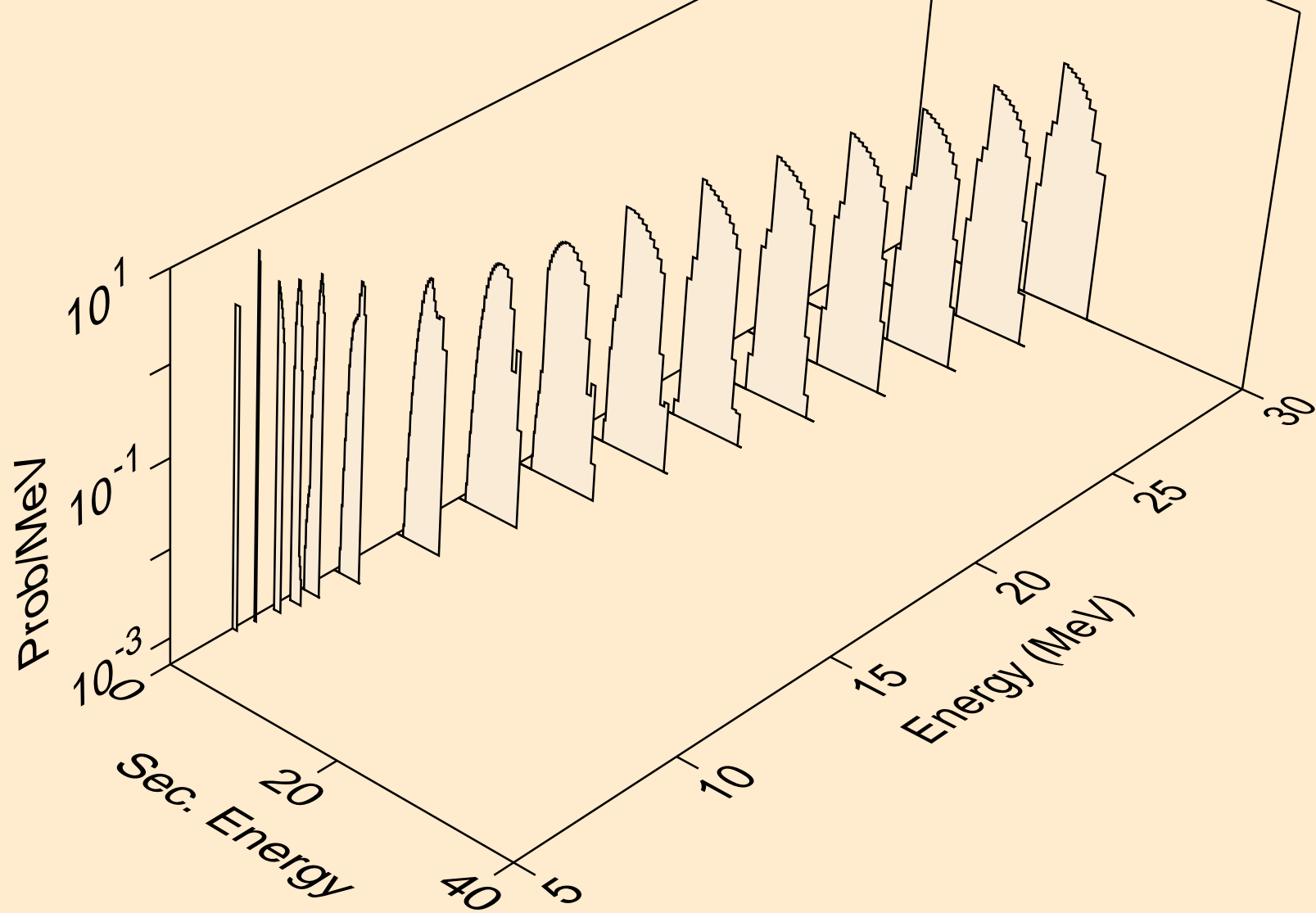
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protons from (n,n2p)



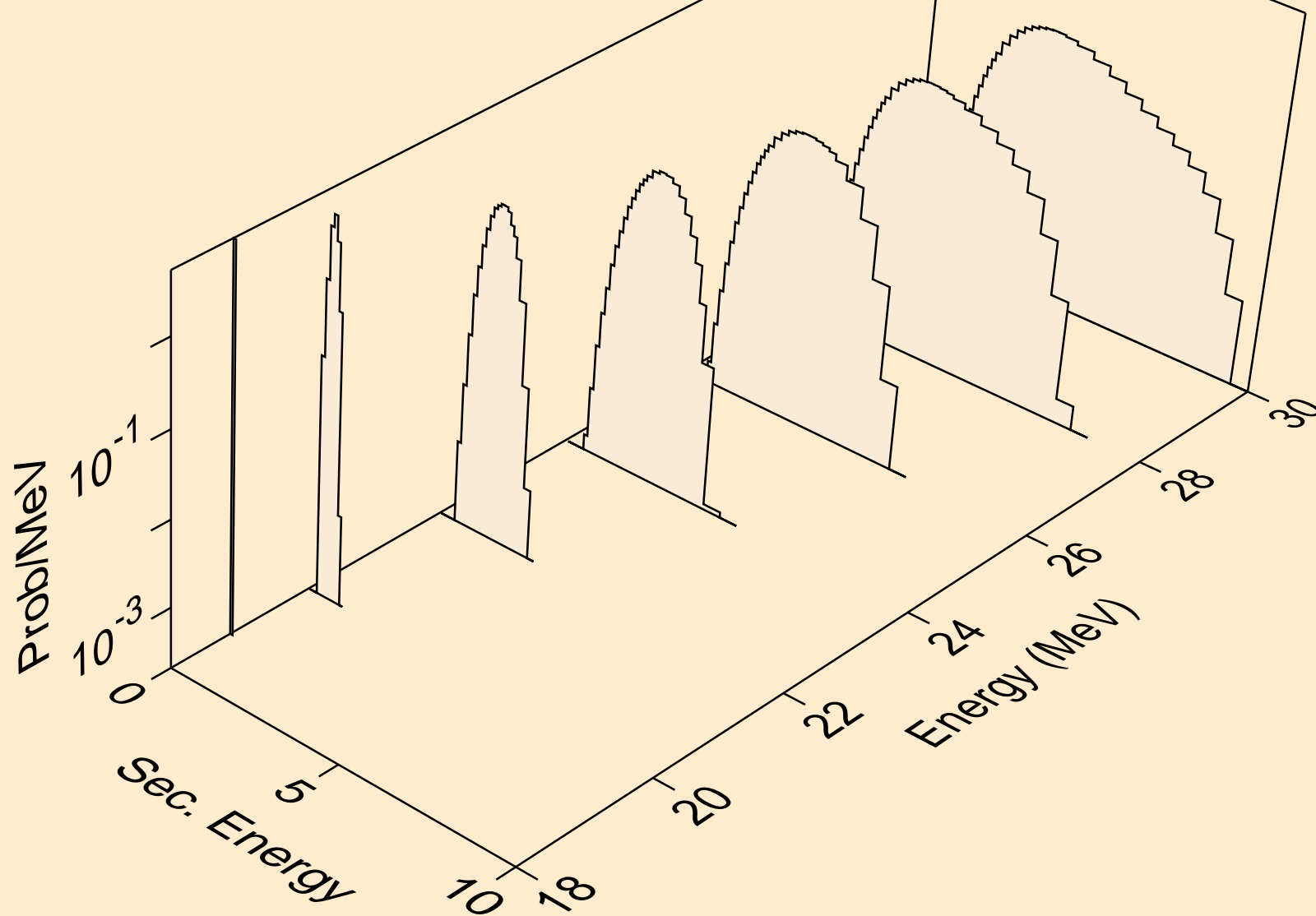
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protons from (n,npa)



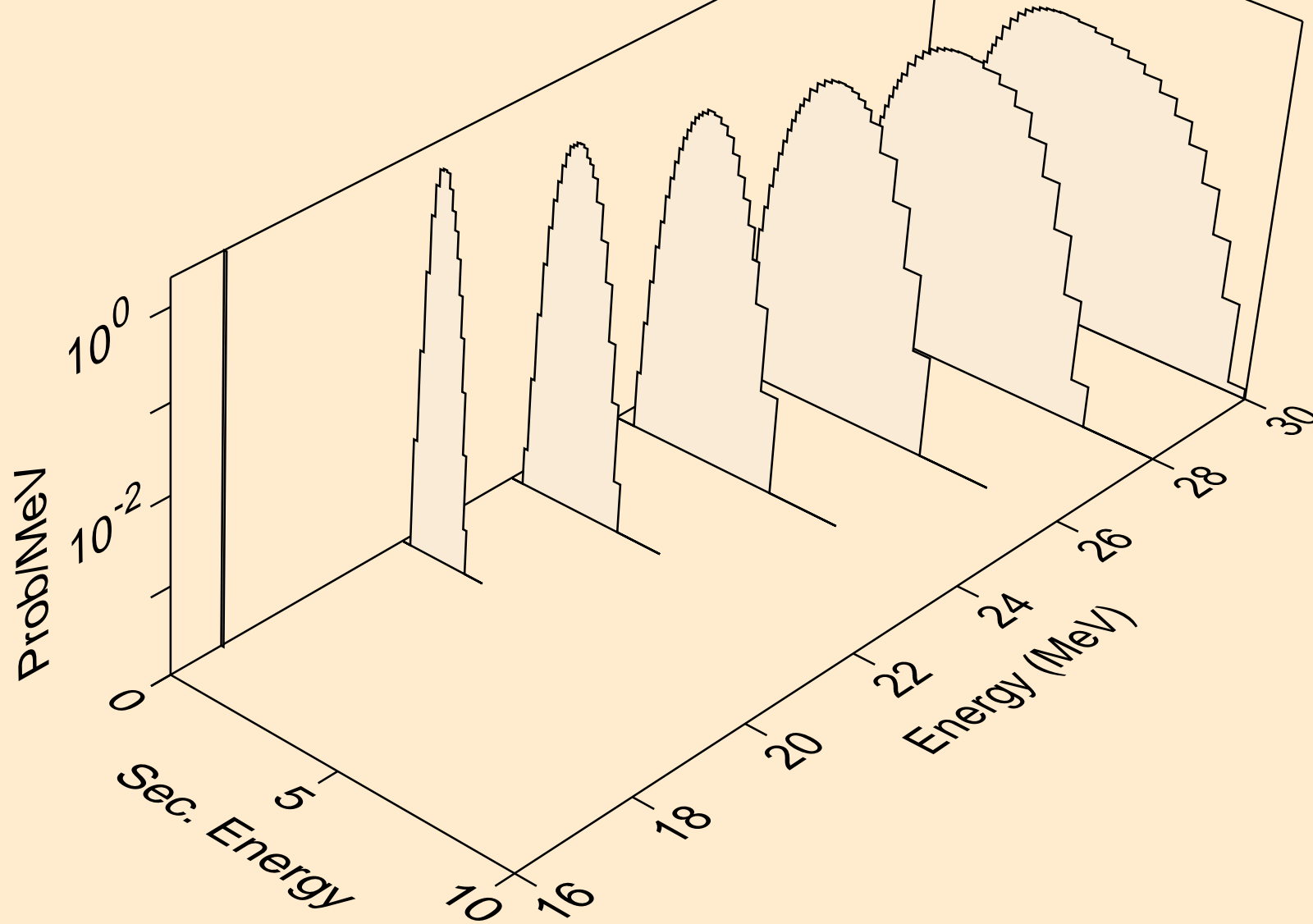
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protons from (n,p)



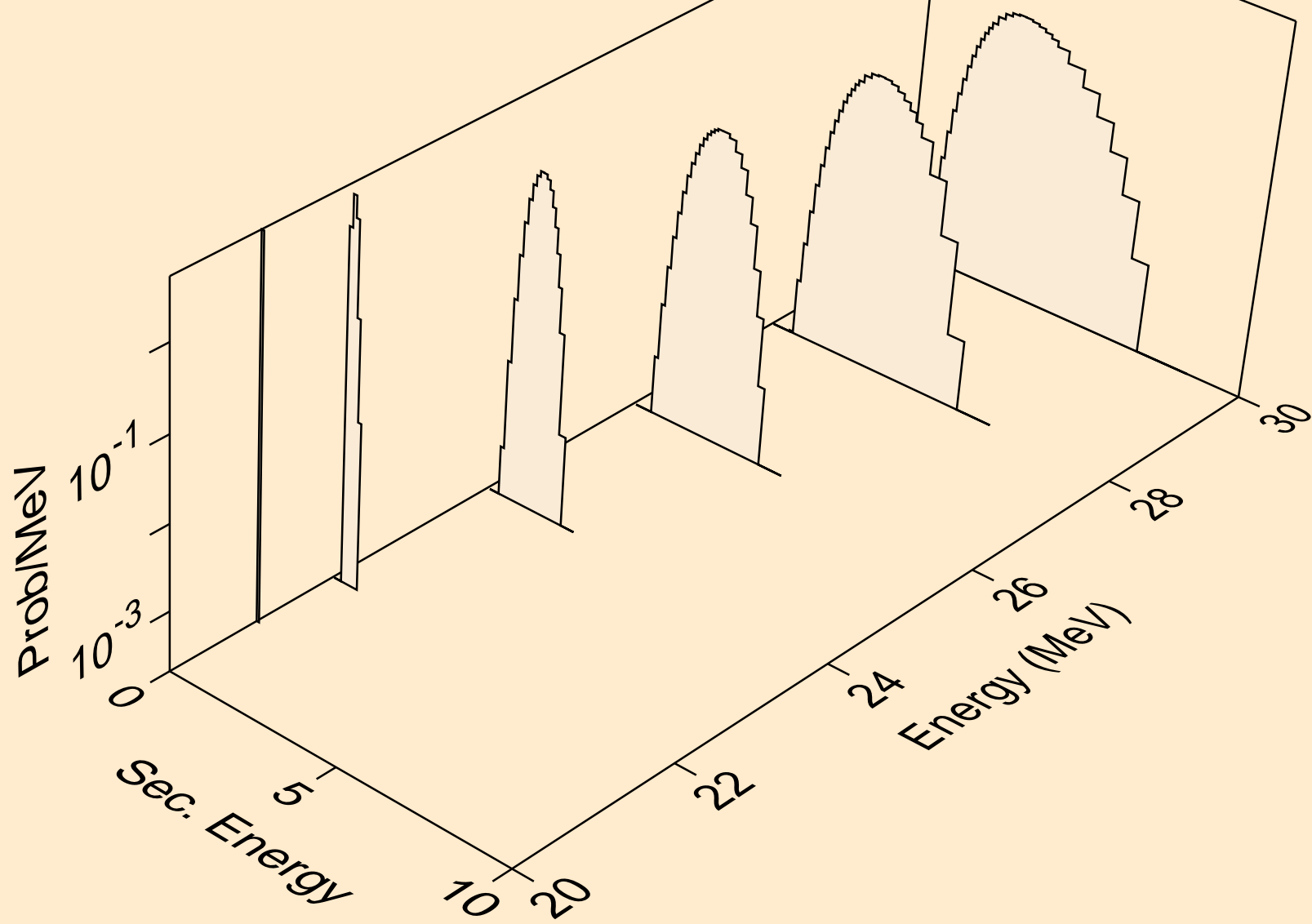
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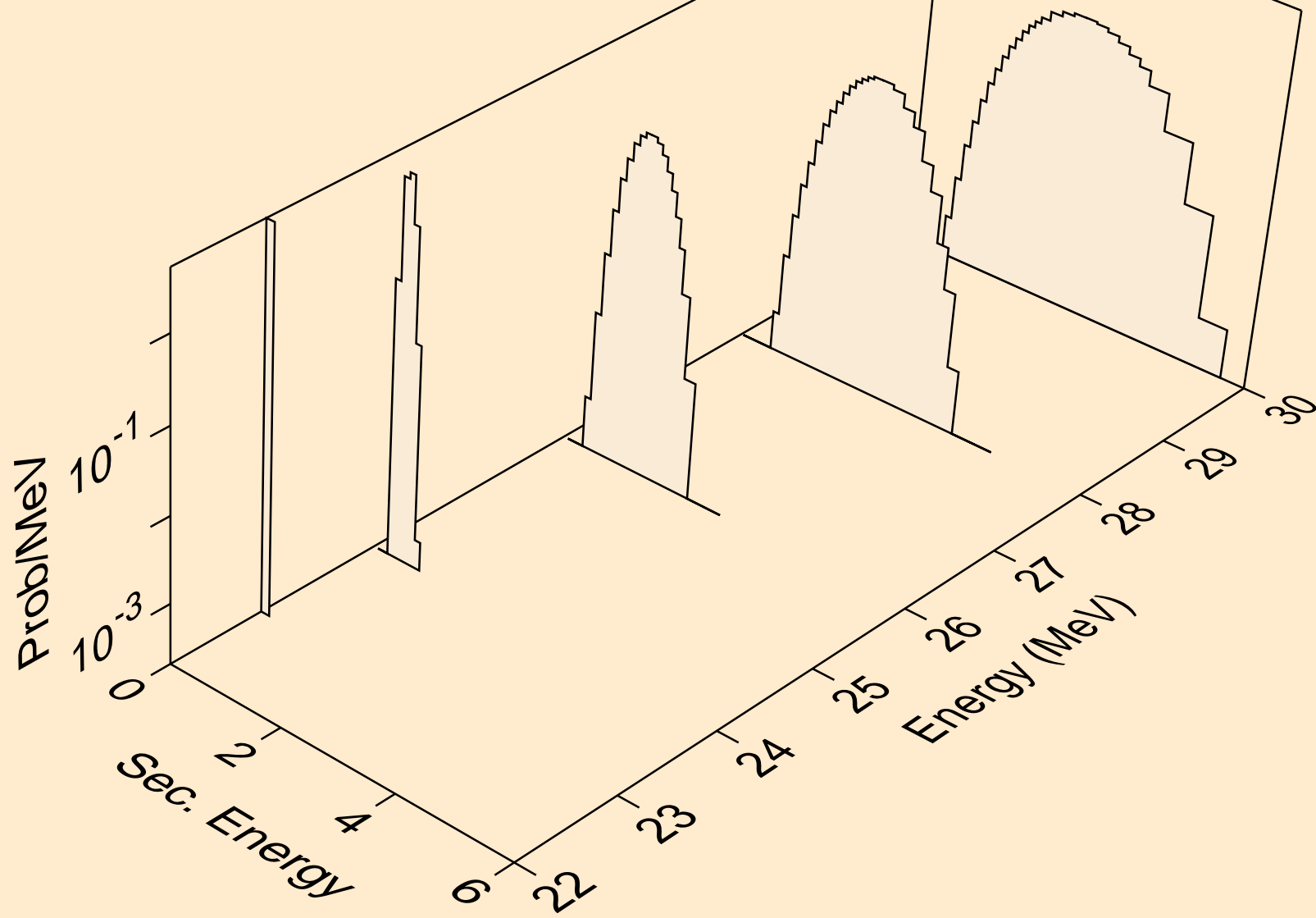
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protons from (n,p)



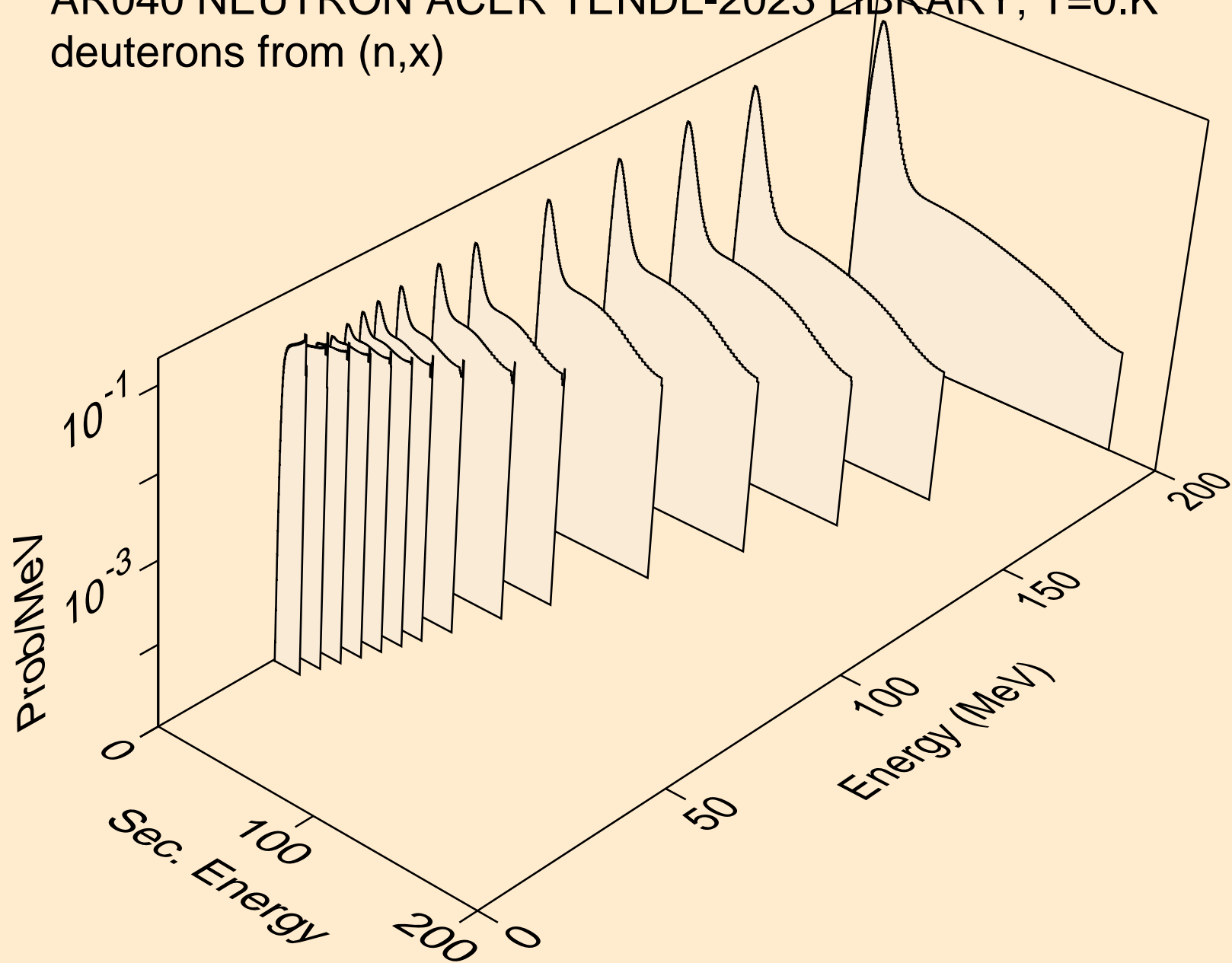
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pd)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pt)

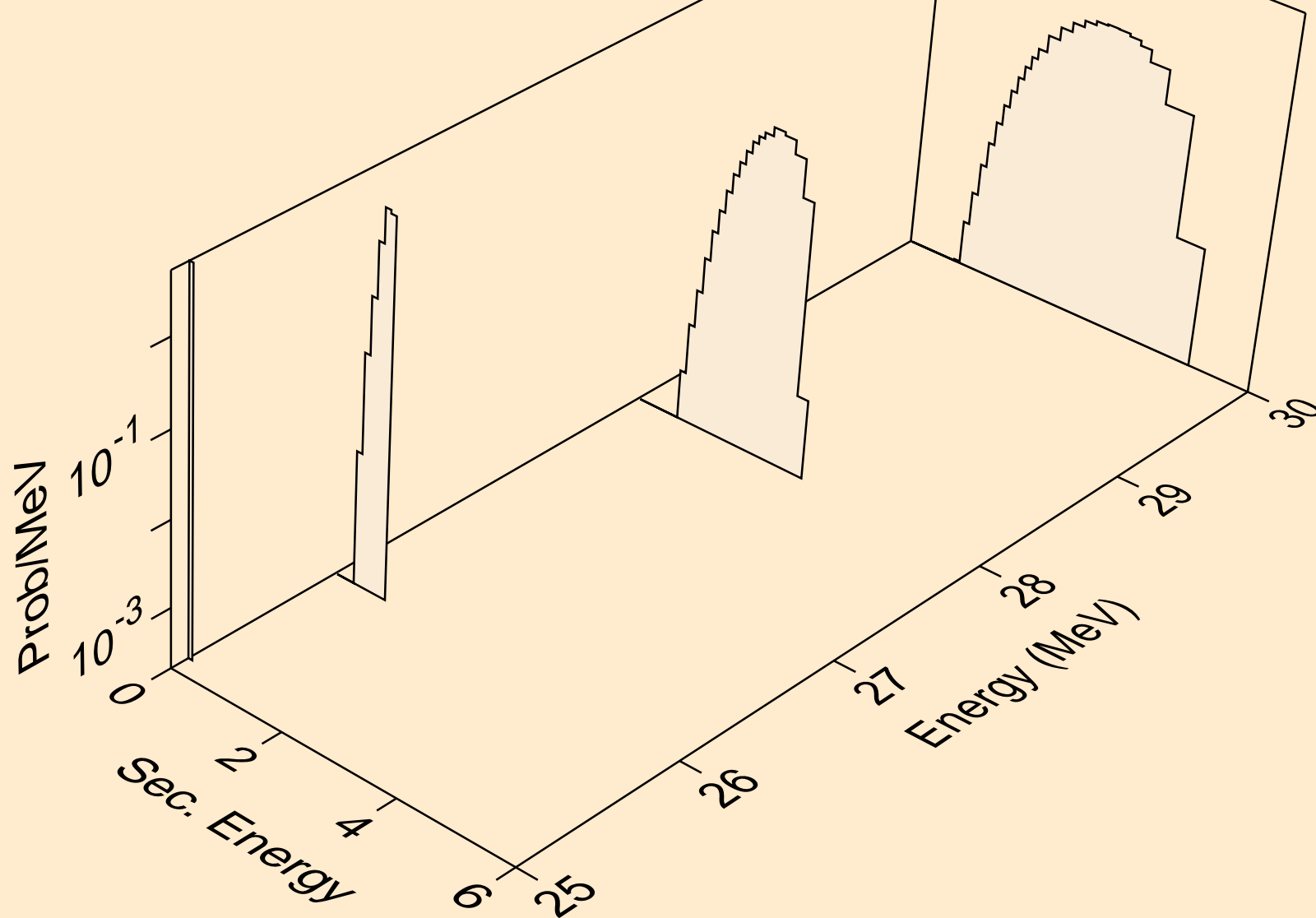


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deuterons from (n,x)

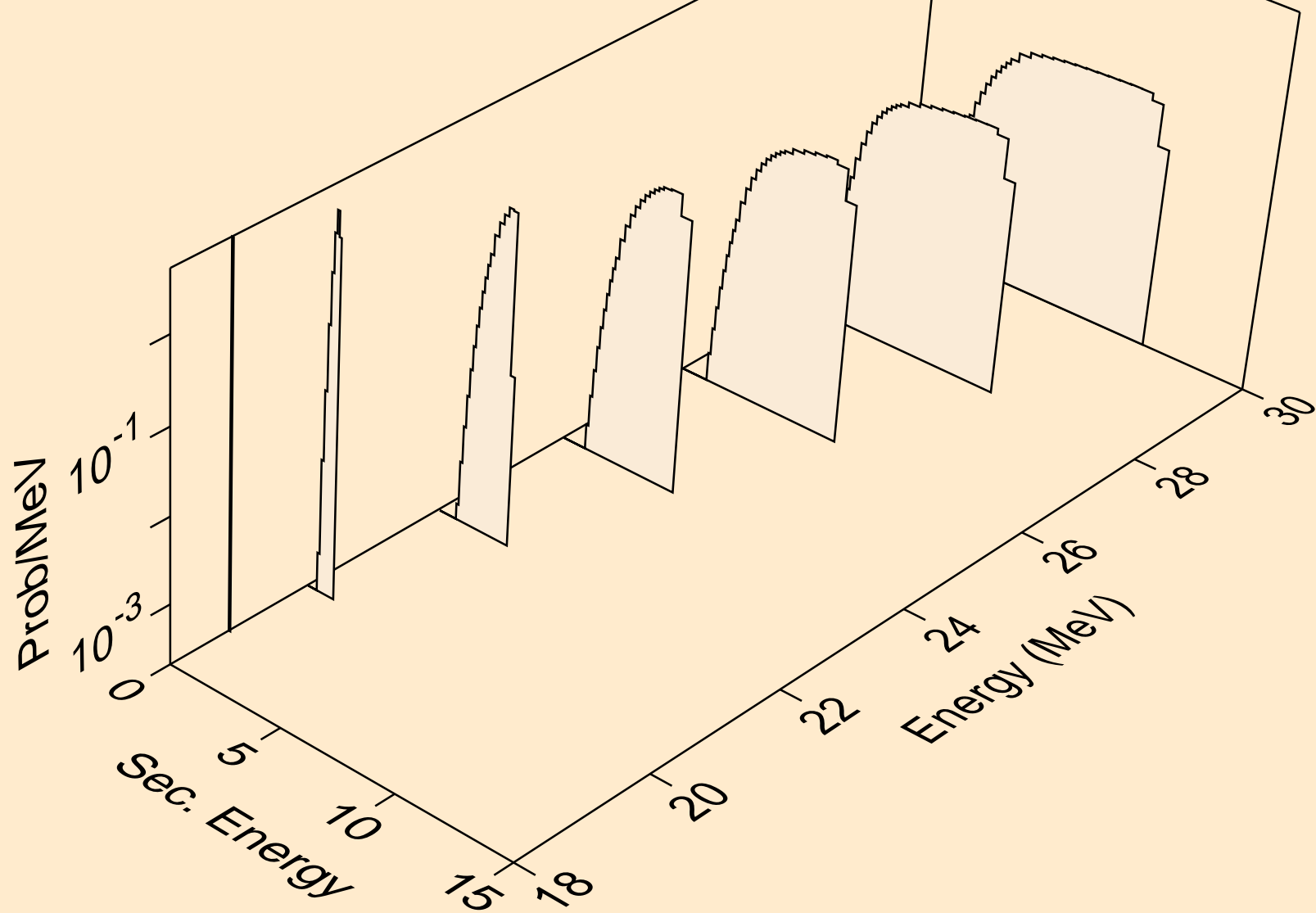




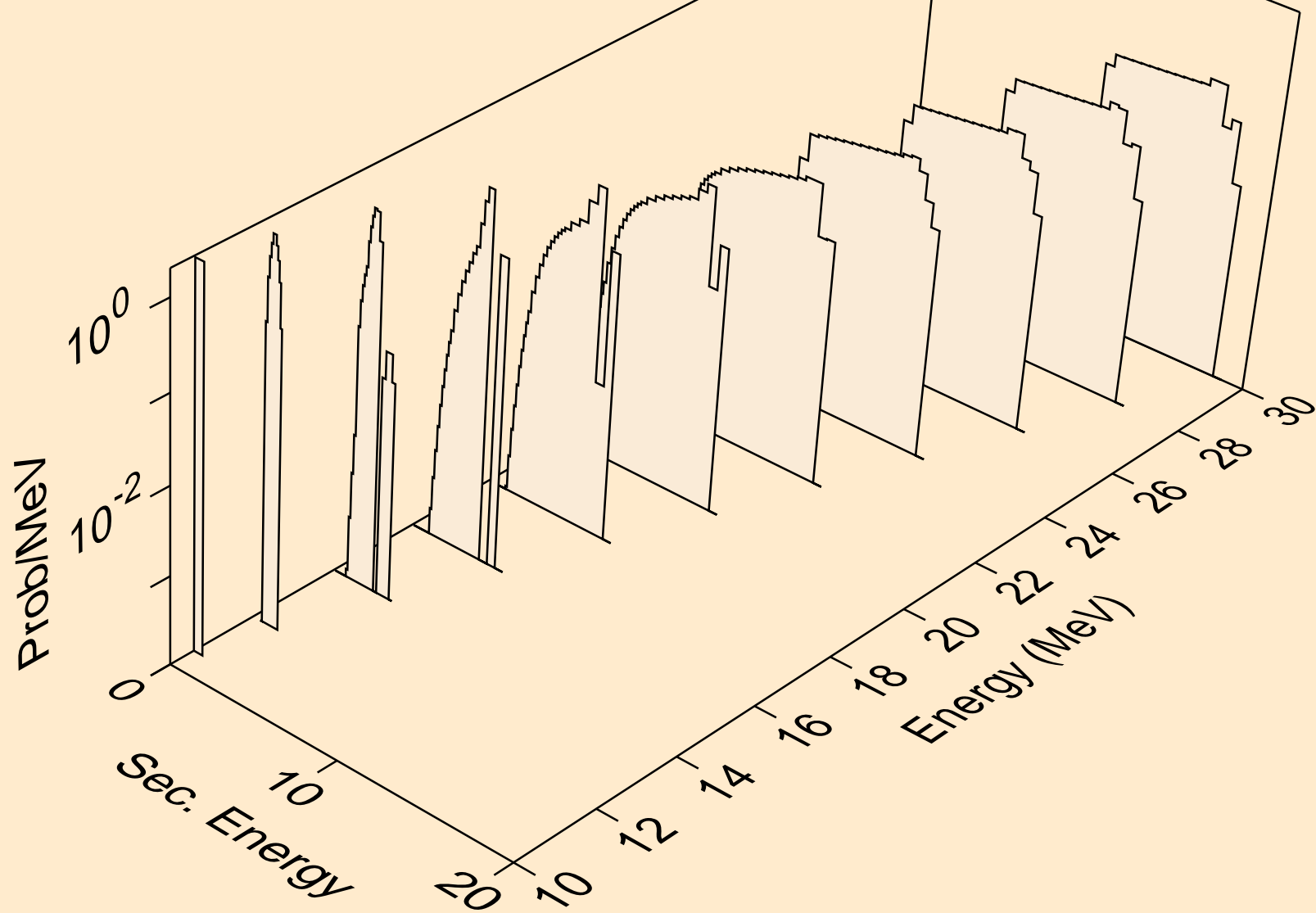
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deuterons from (n,2nd)



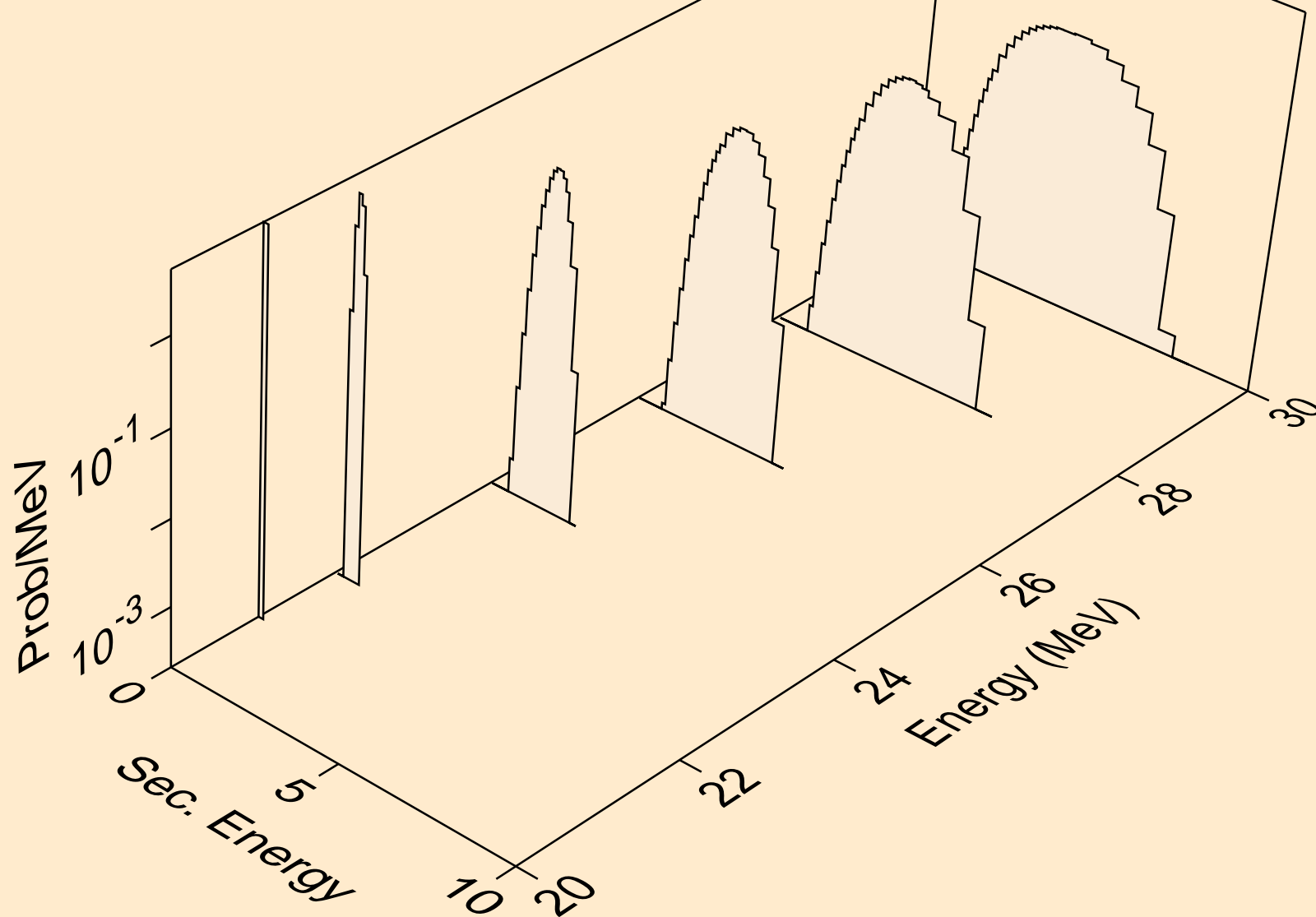
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deuterons from (n,n\*)d



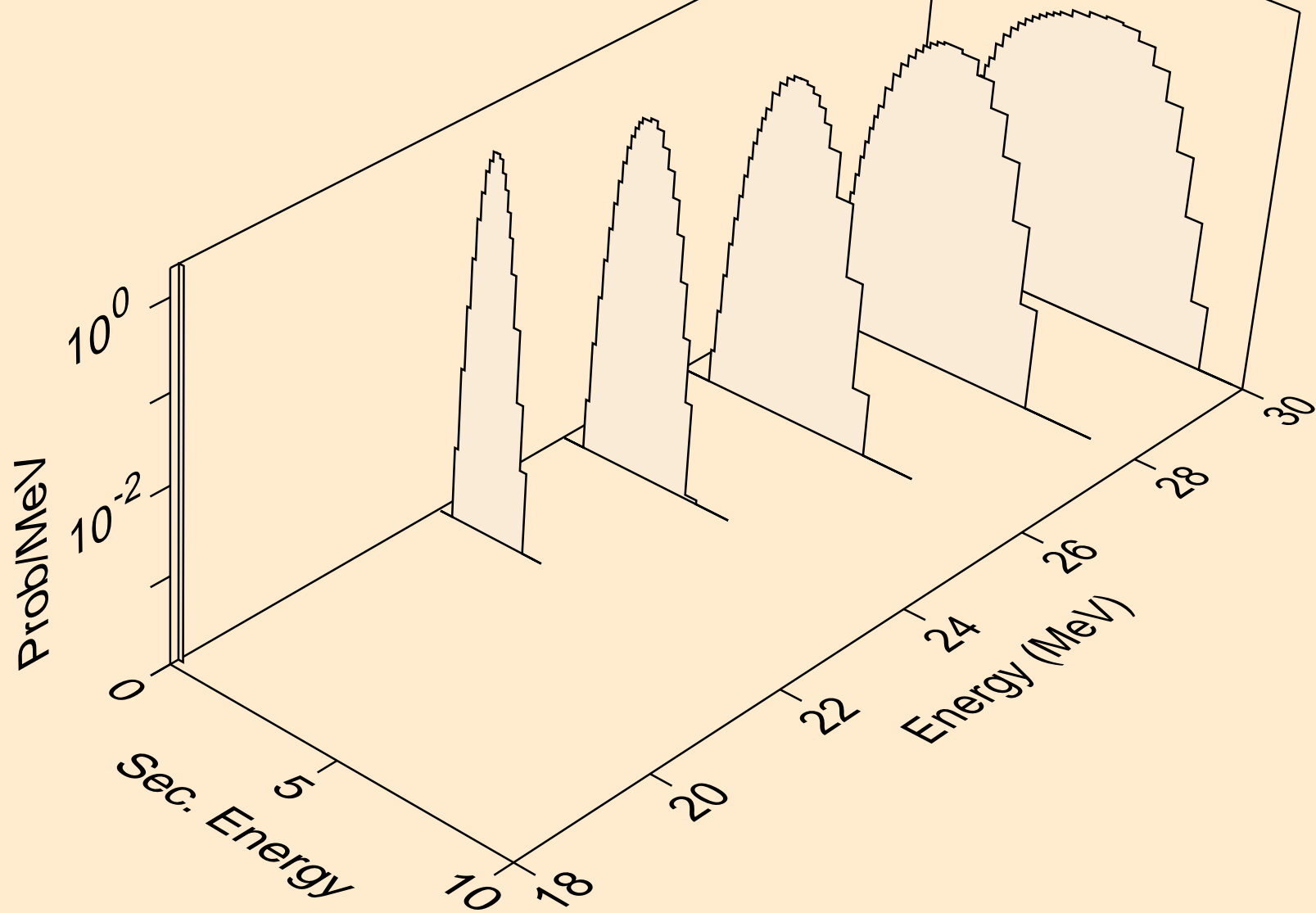
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deuterons from (n,d)



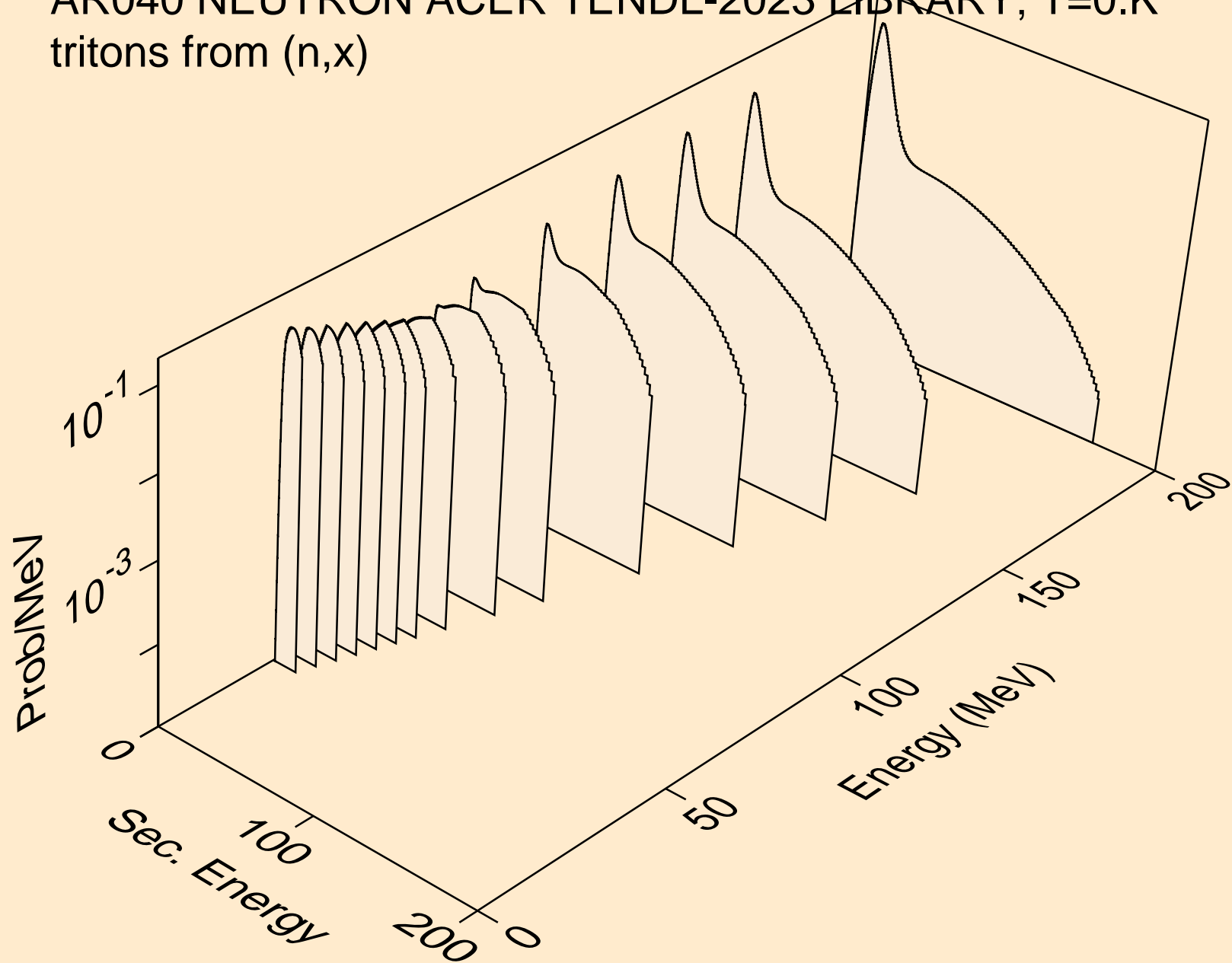
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deuterons from (n,pd)



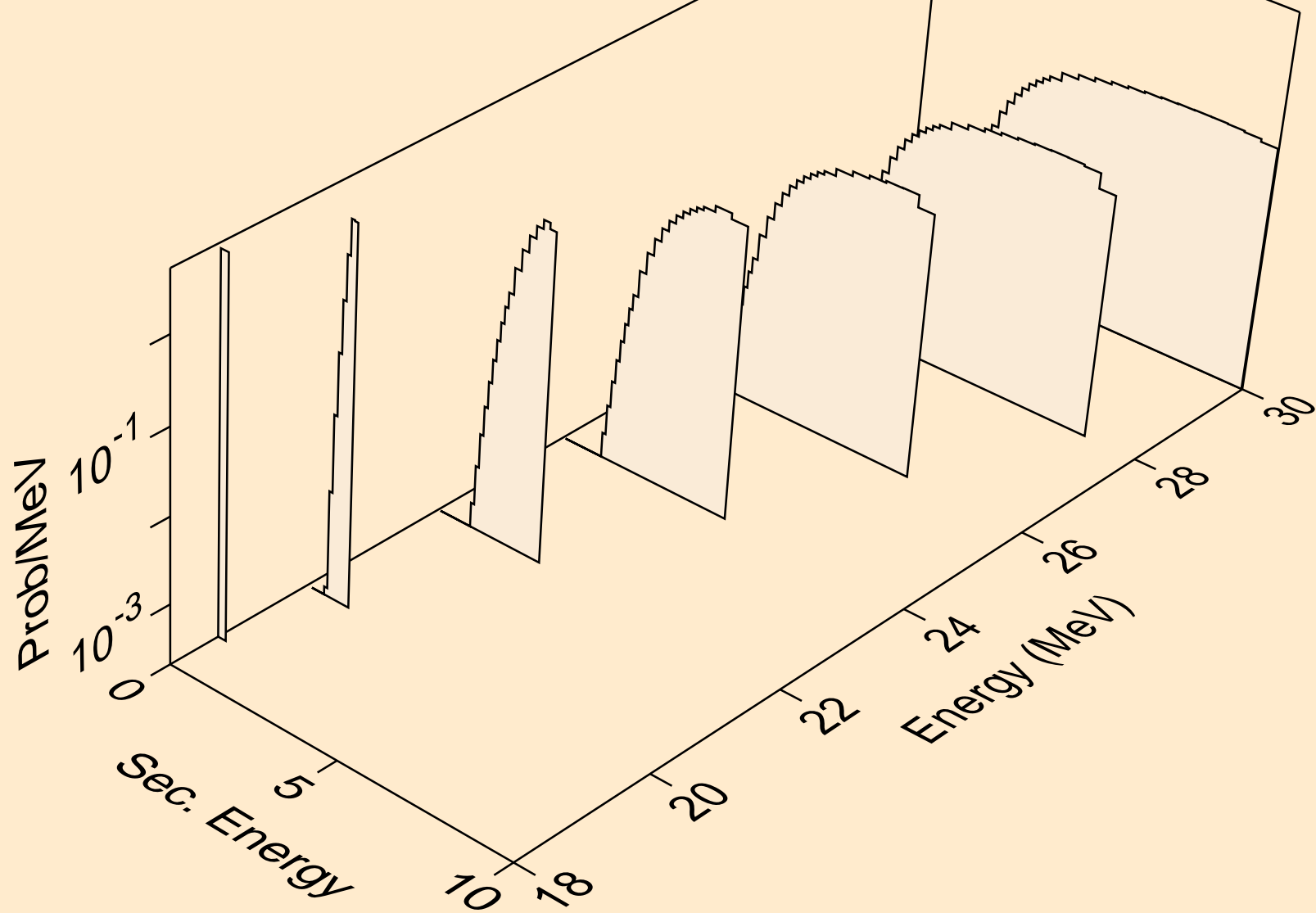
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deuterons from (n,da)



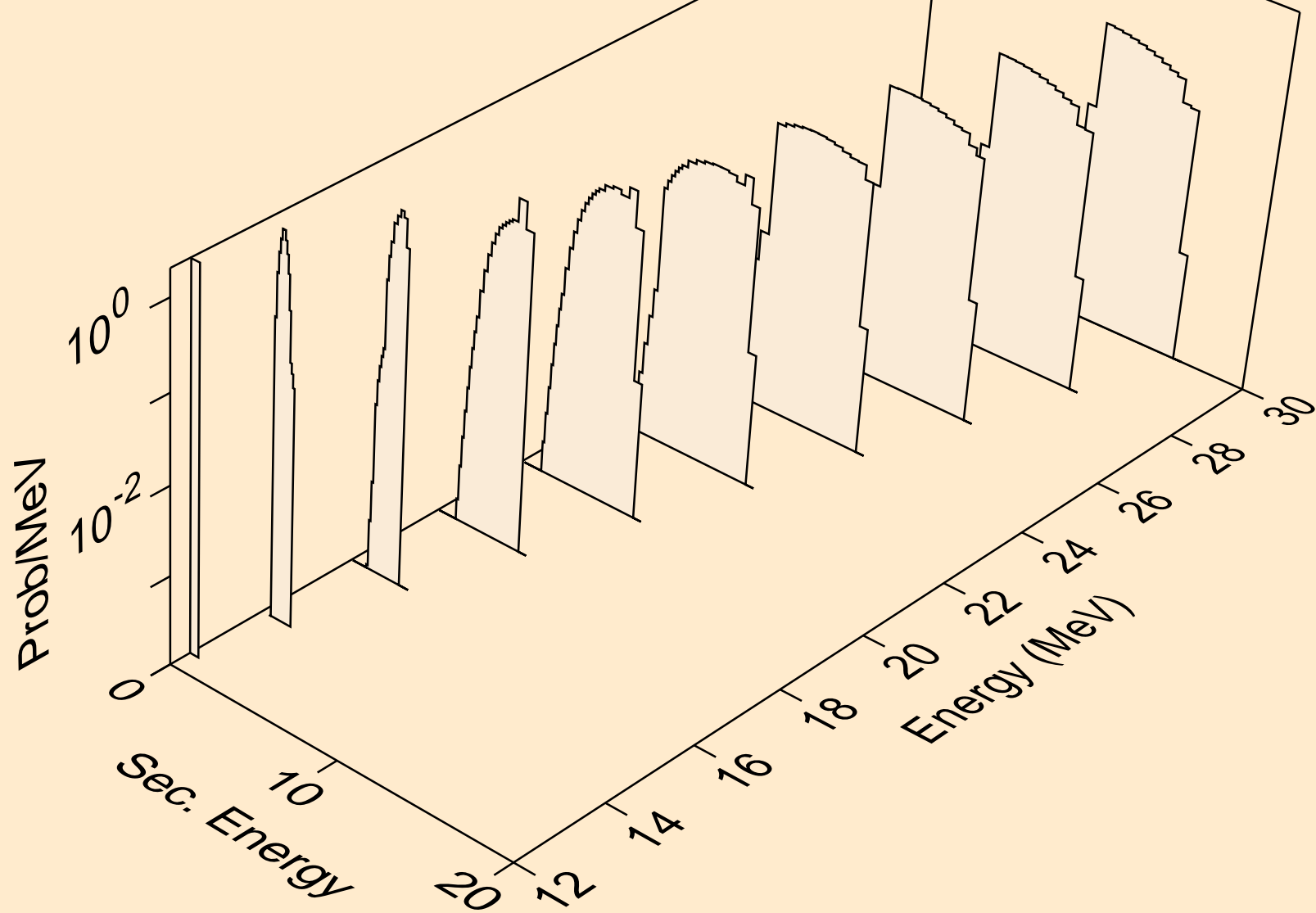
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t

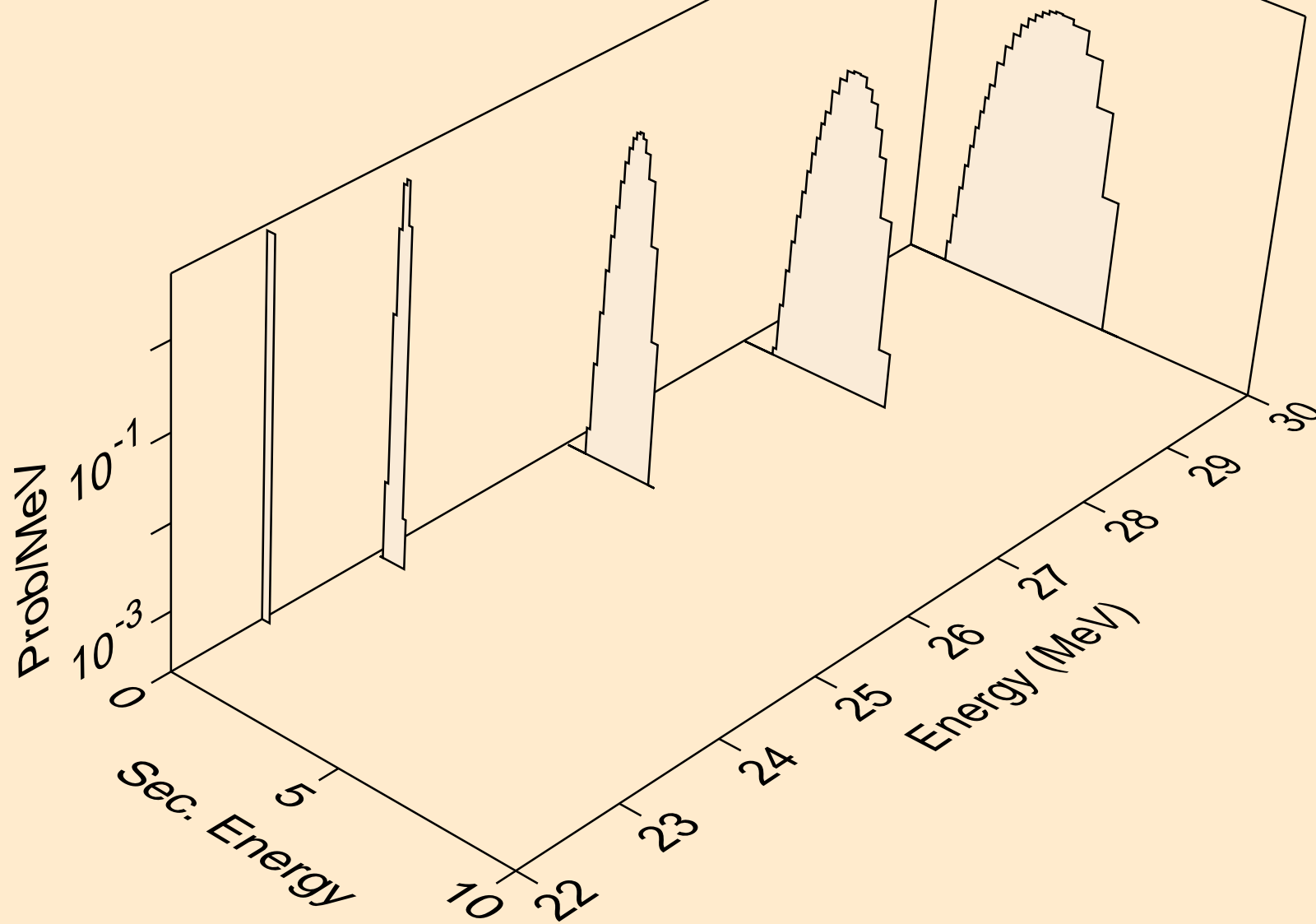


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tritons from (n,t)

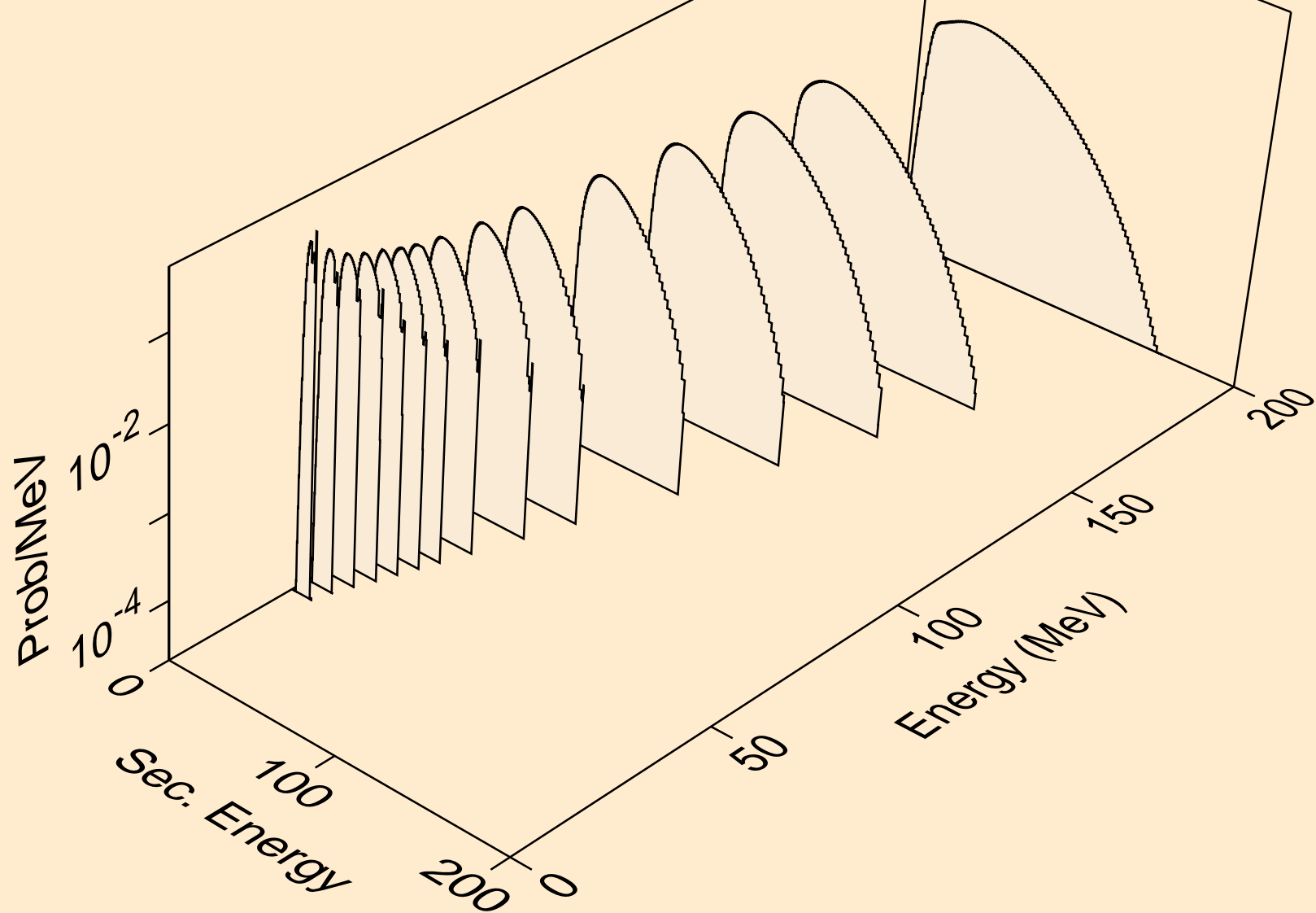




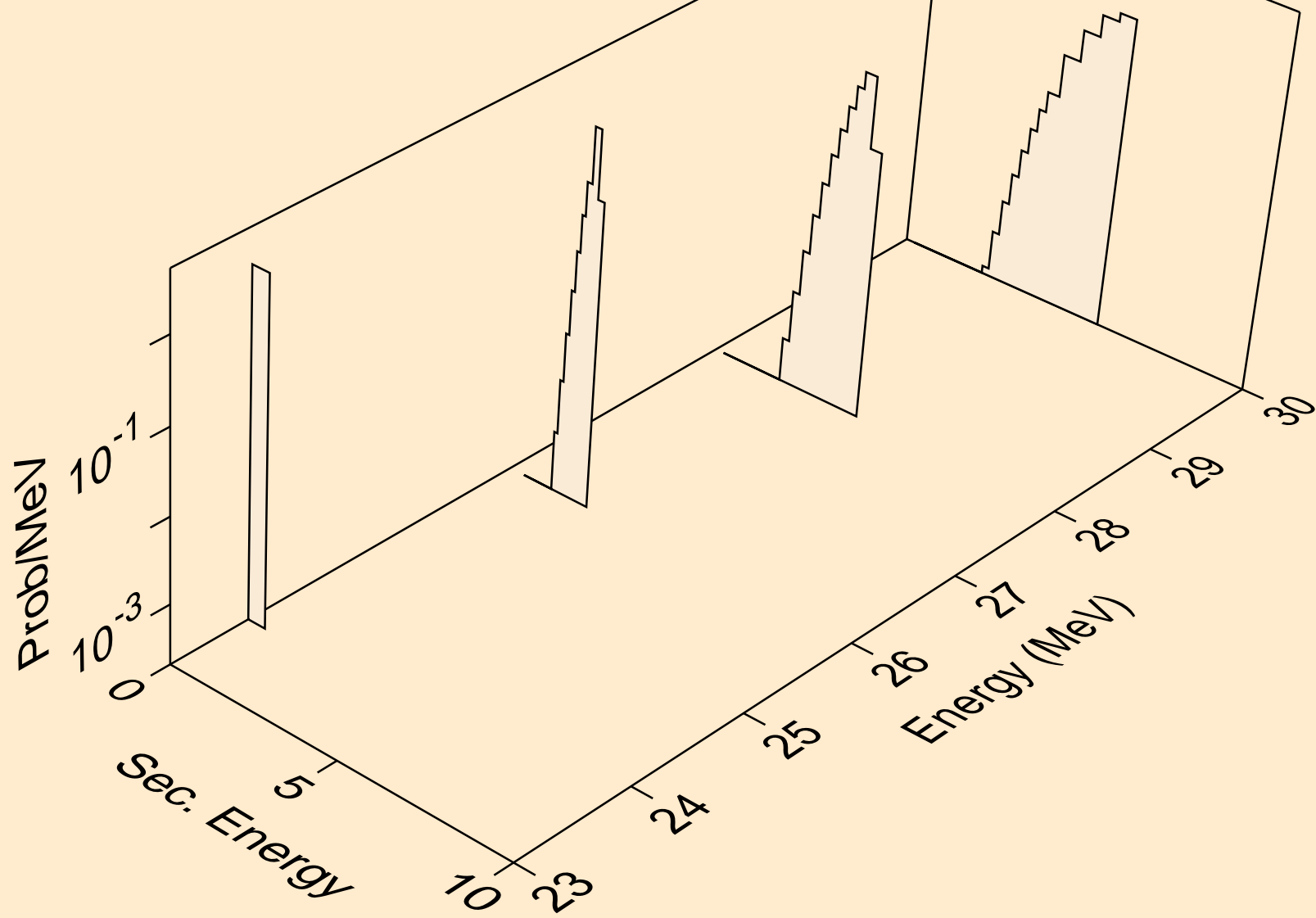
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tritons from (n,pt)



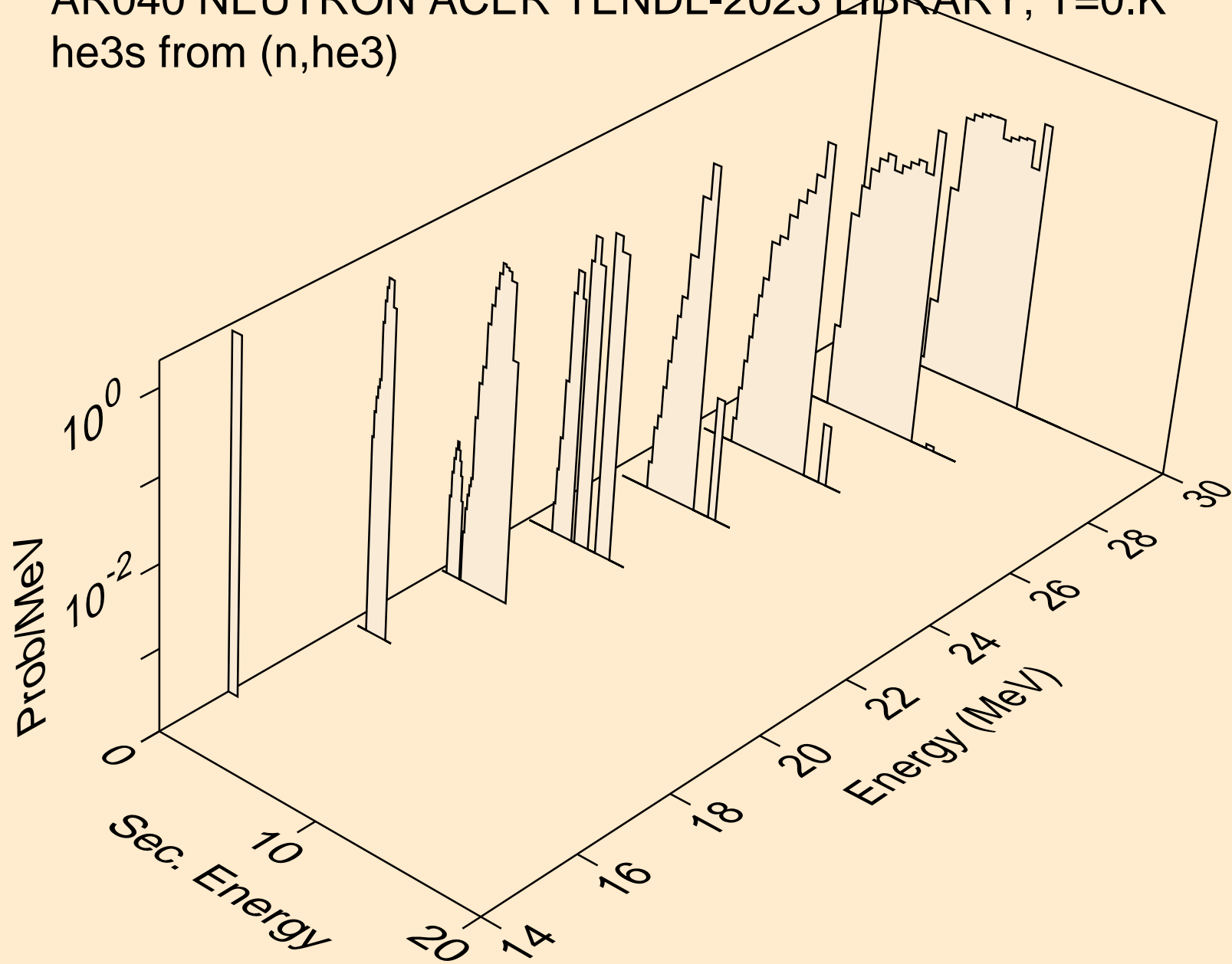
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he3s from (n,x)



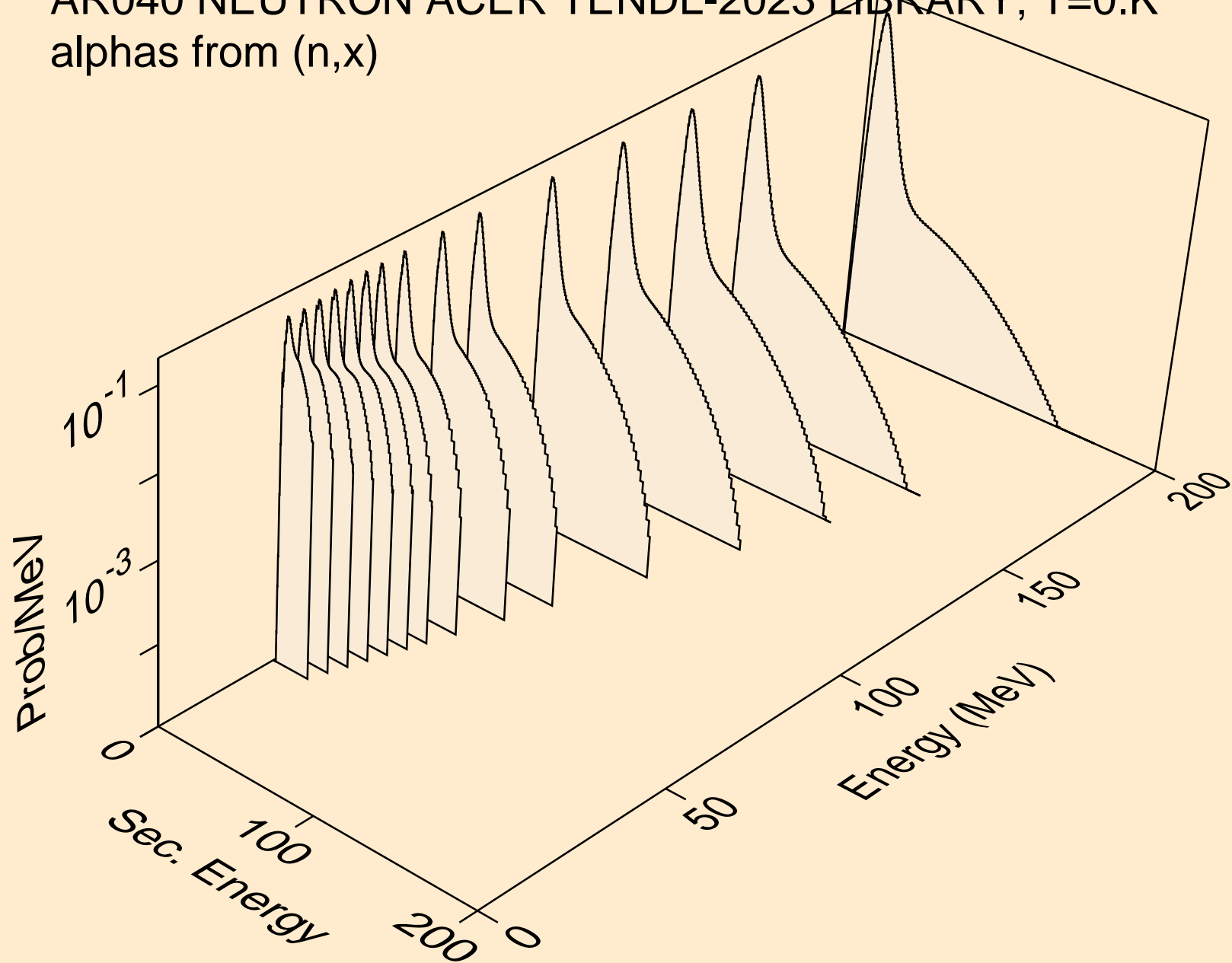
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he3s from (n,n\*)he3



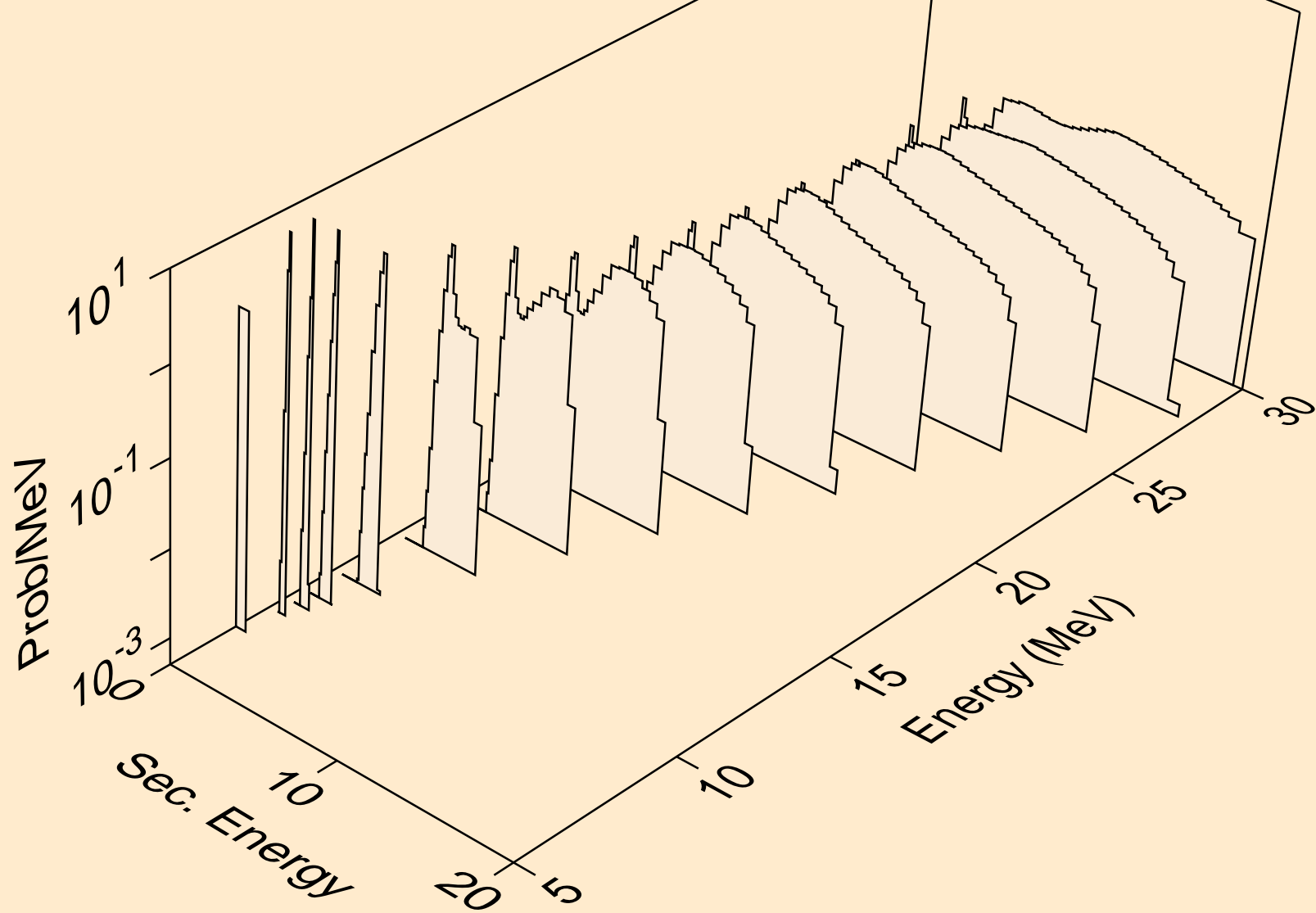
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he3s from (n,he3)



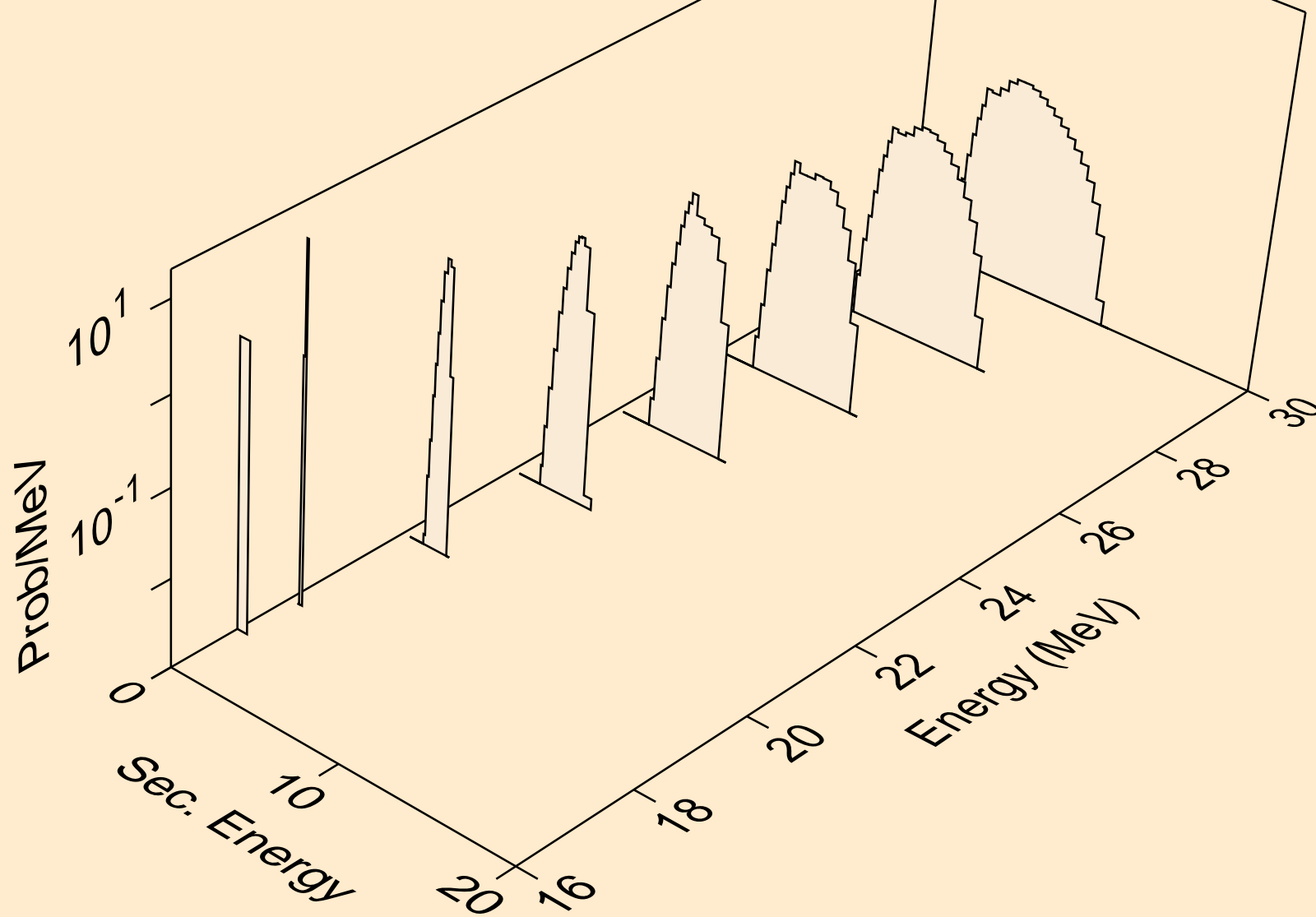
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alphas from (n,x)



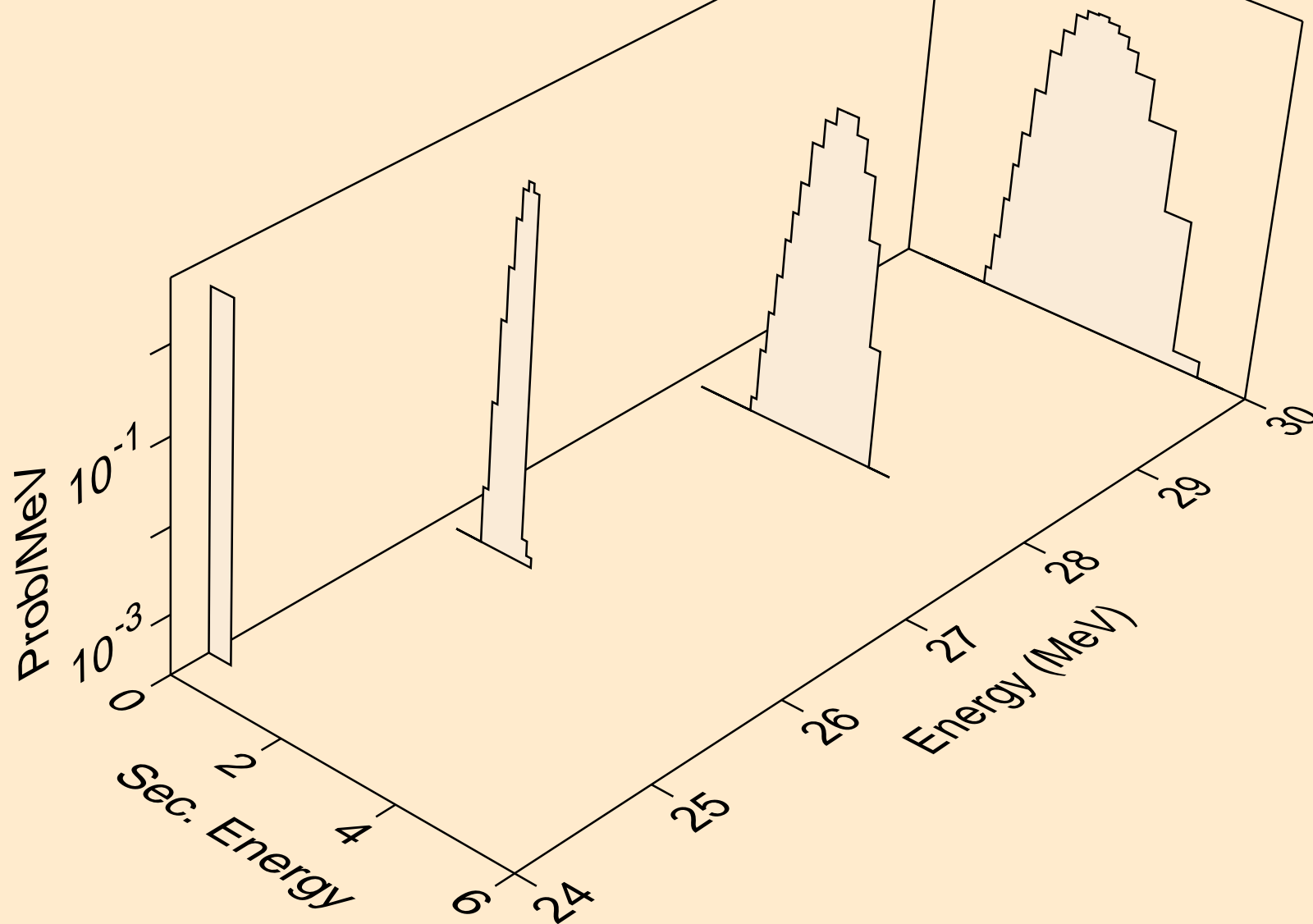
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alphas from (n,n\*)a



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a

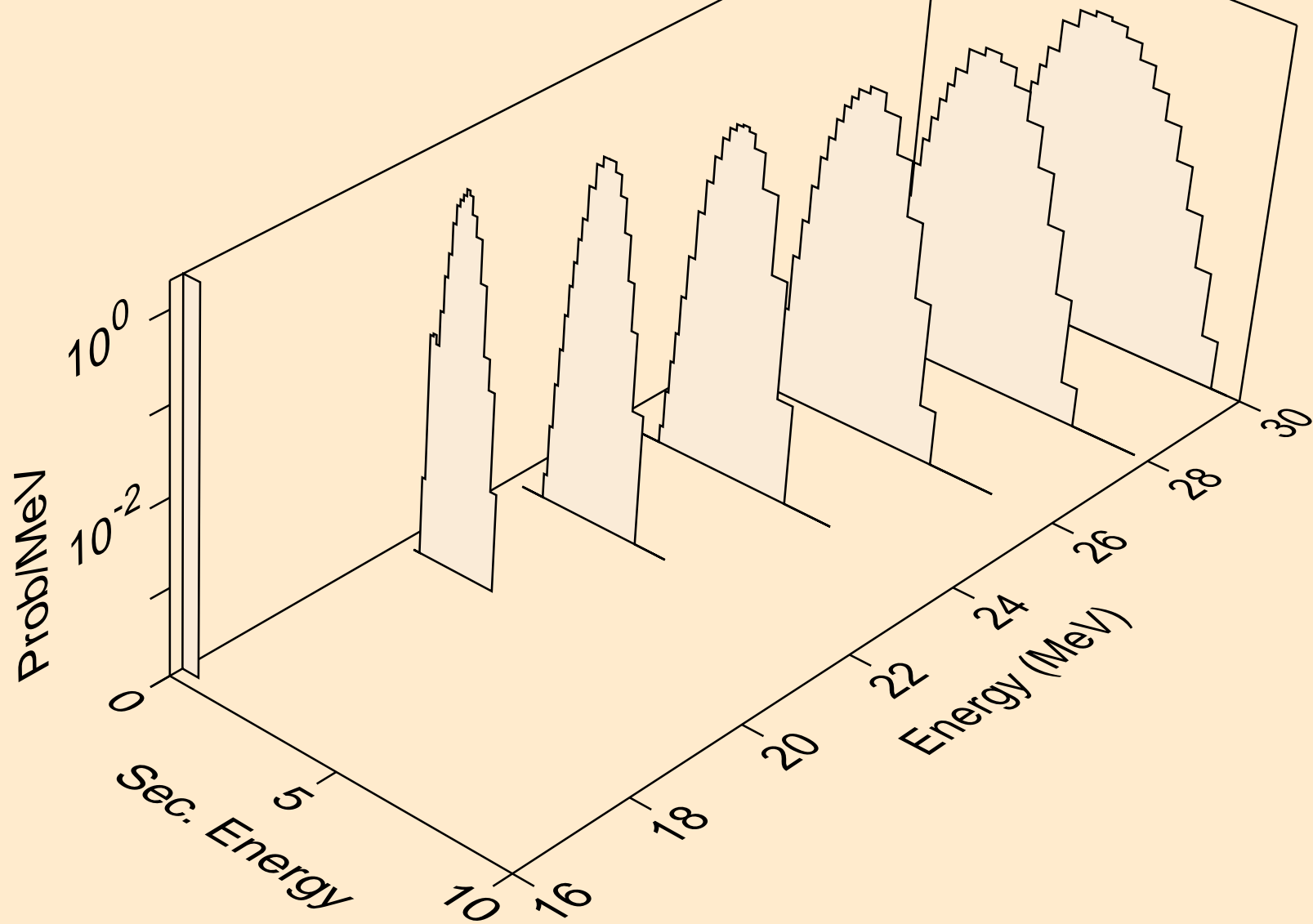


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alphas from (n,3n)a

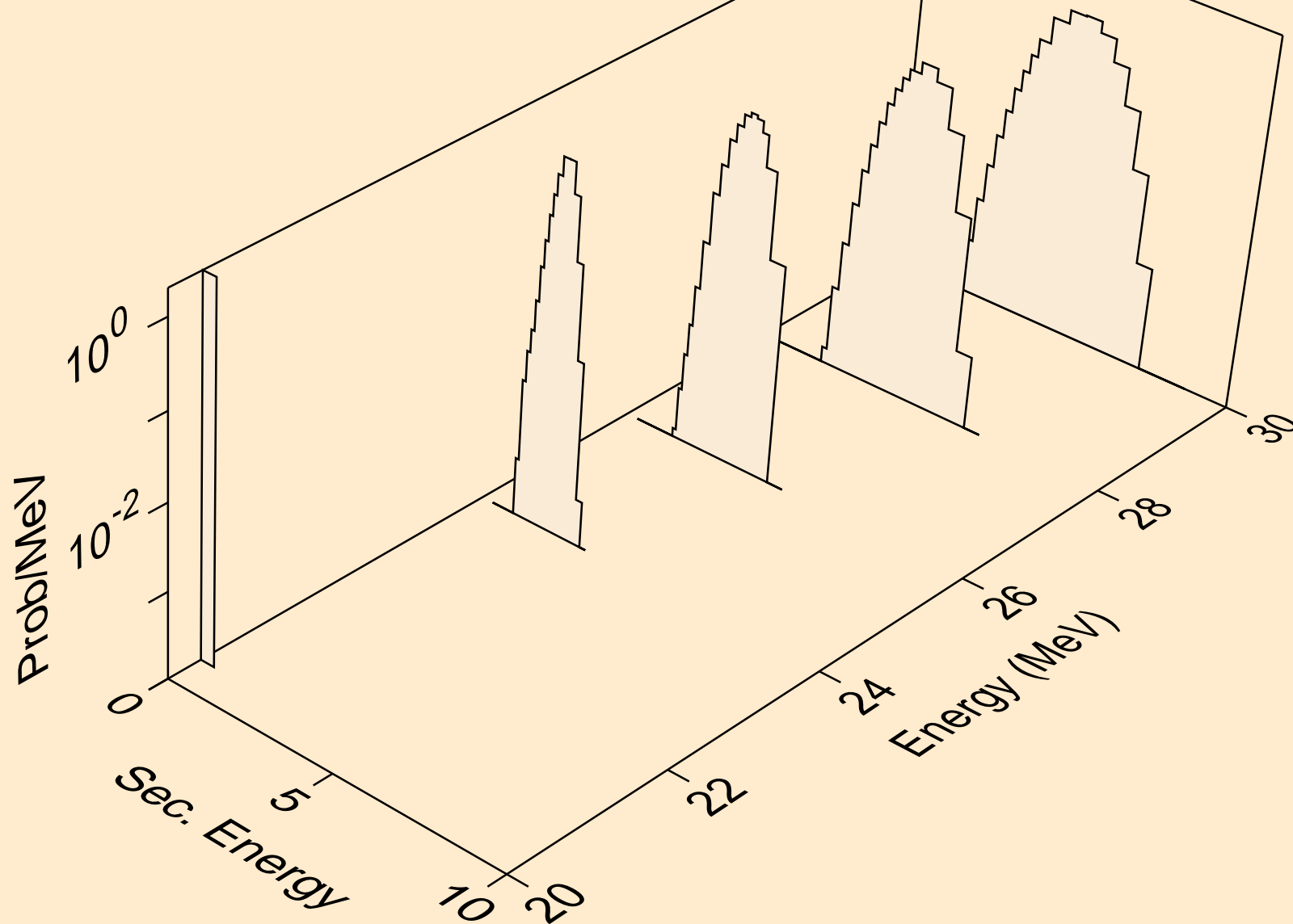




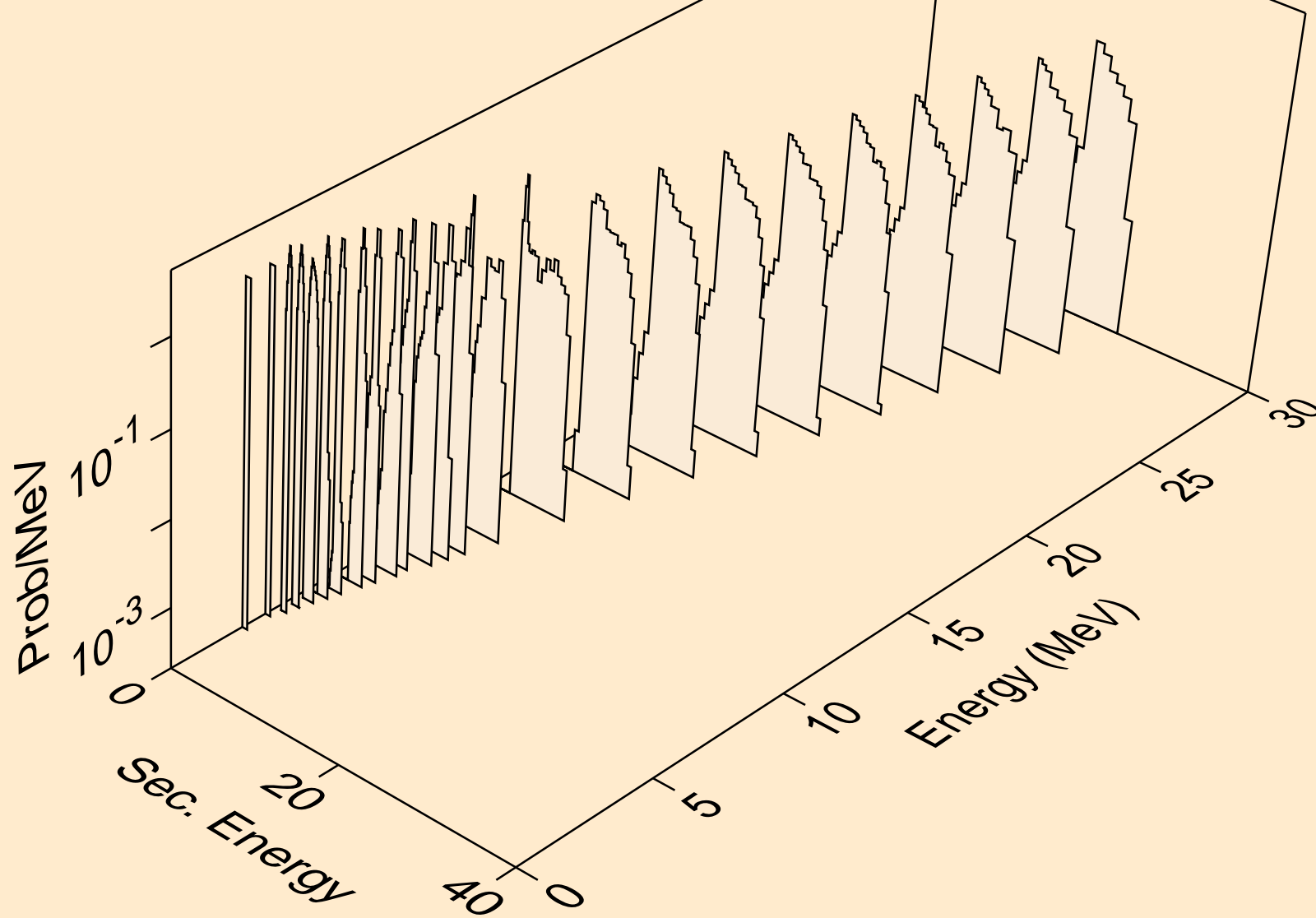
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alphas from (n,n\*)2a



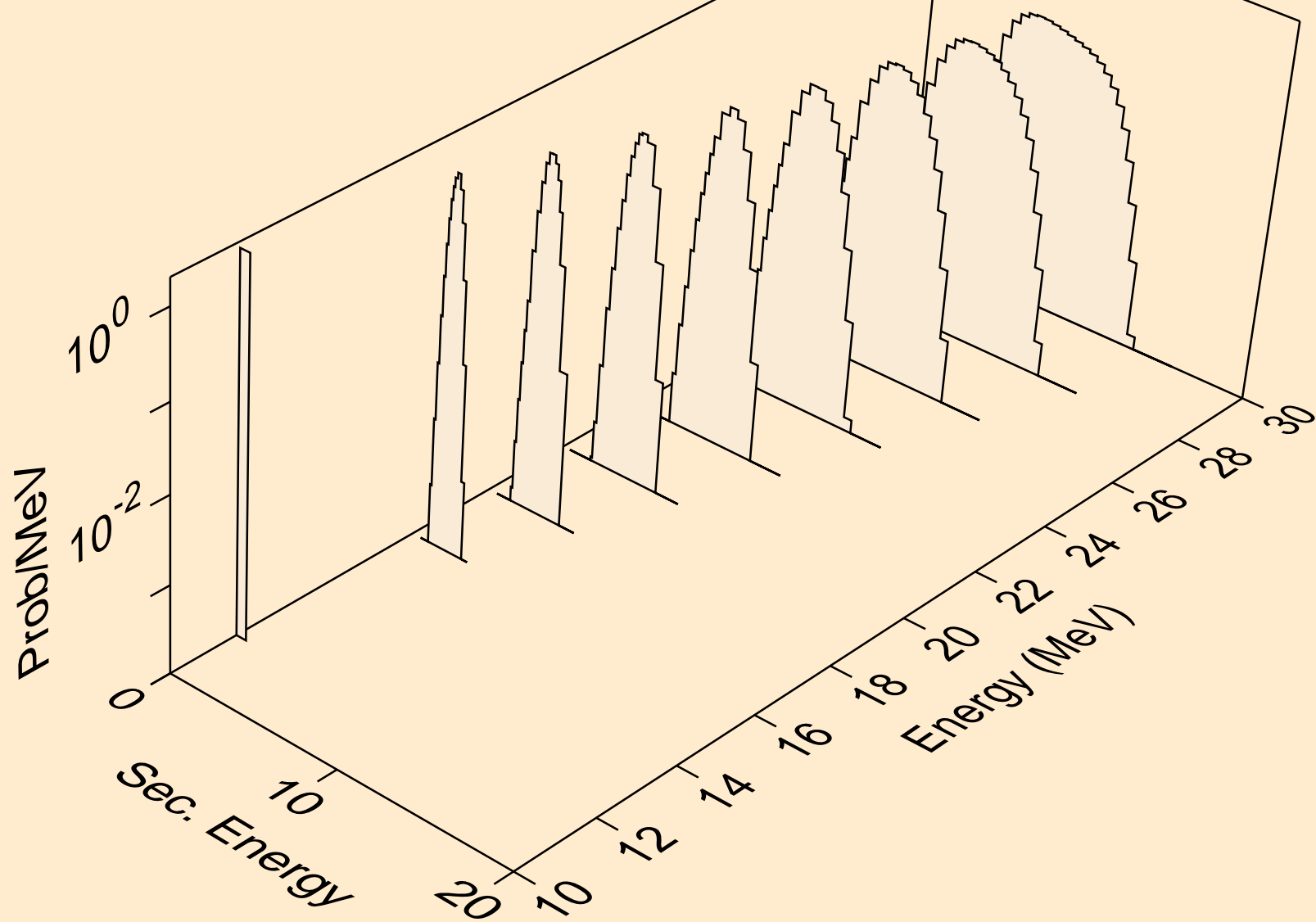
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alphas from (n,npa)



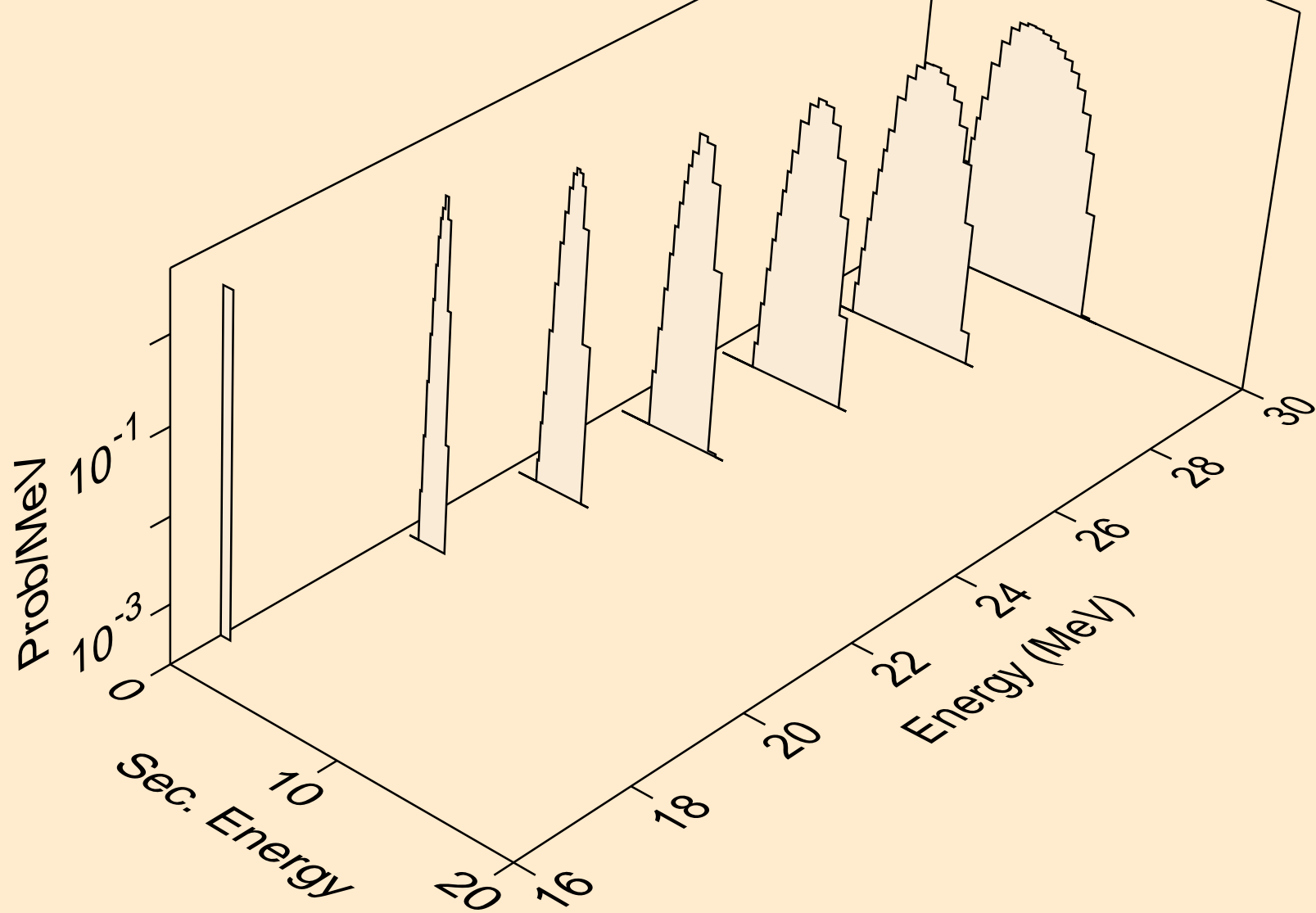
AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



AR040 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

