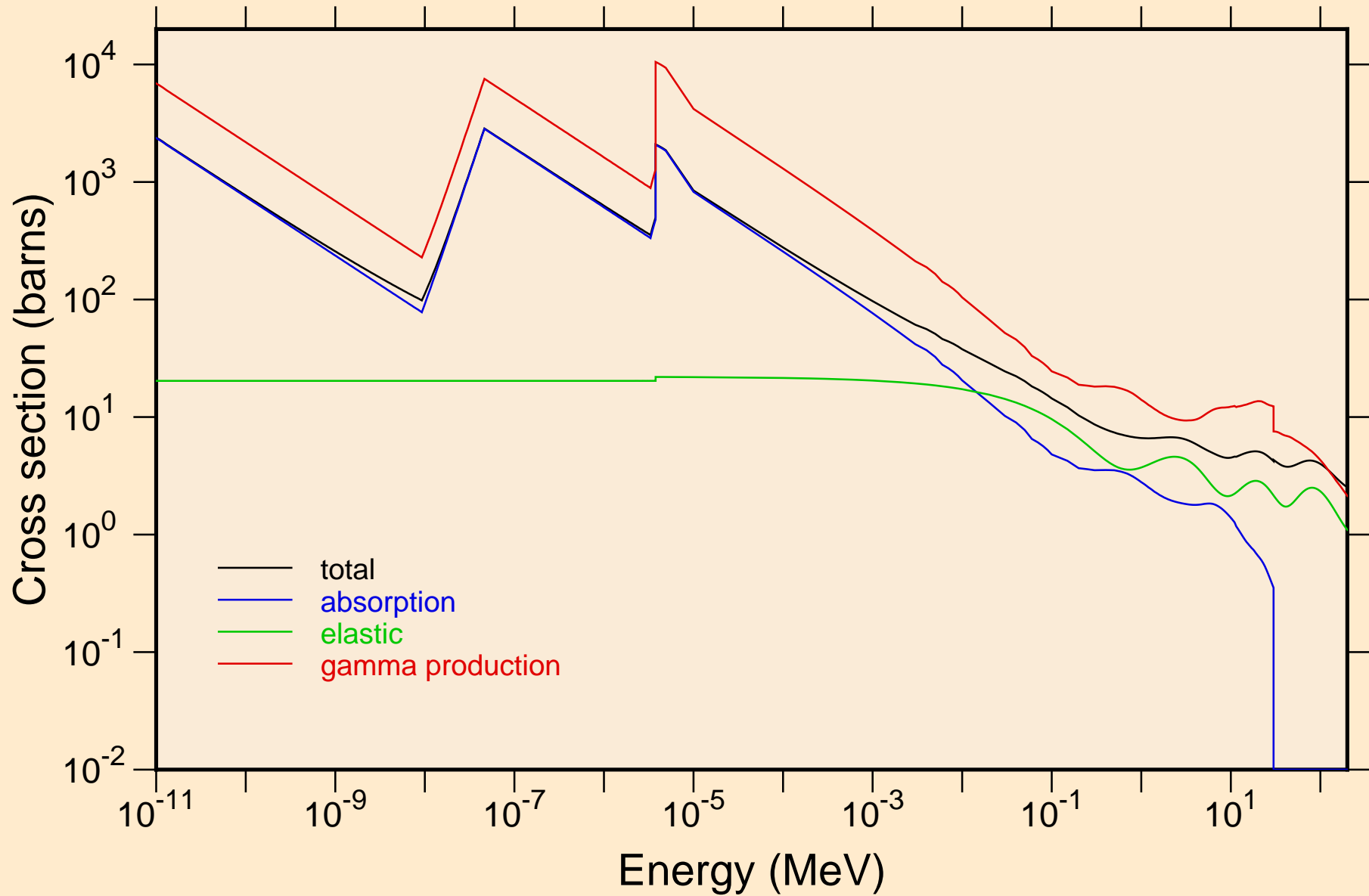
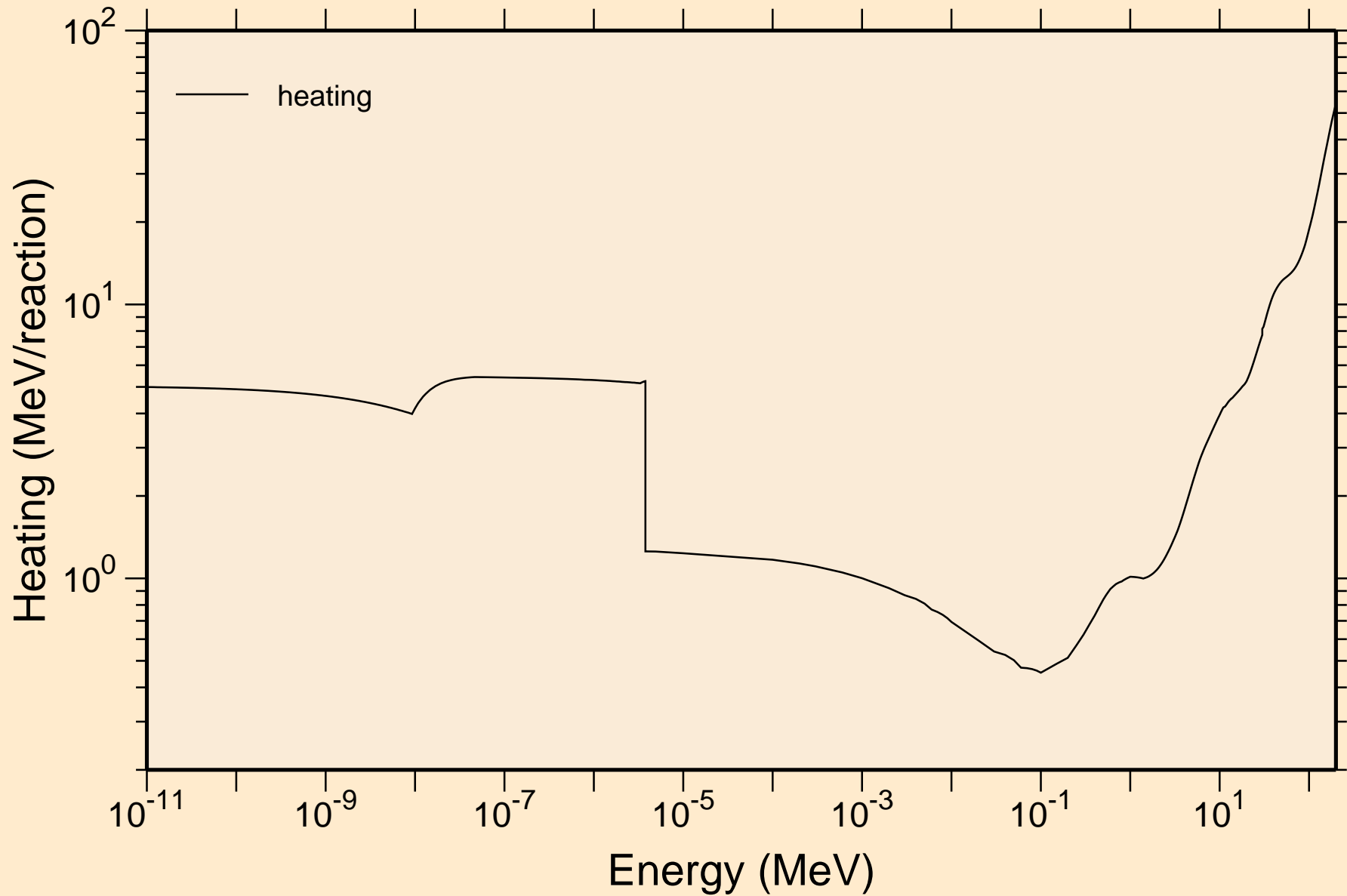


TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Principal cross sections

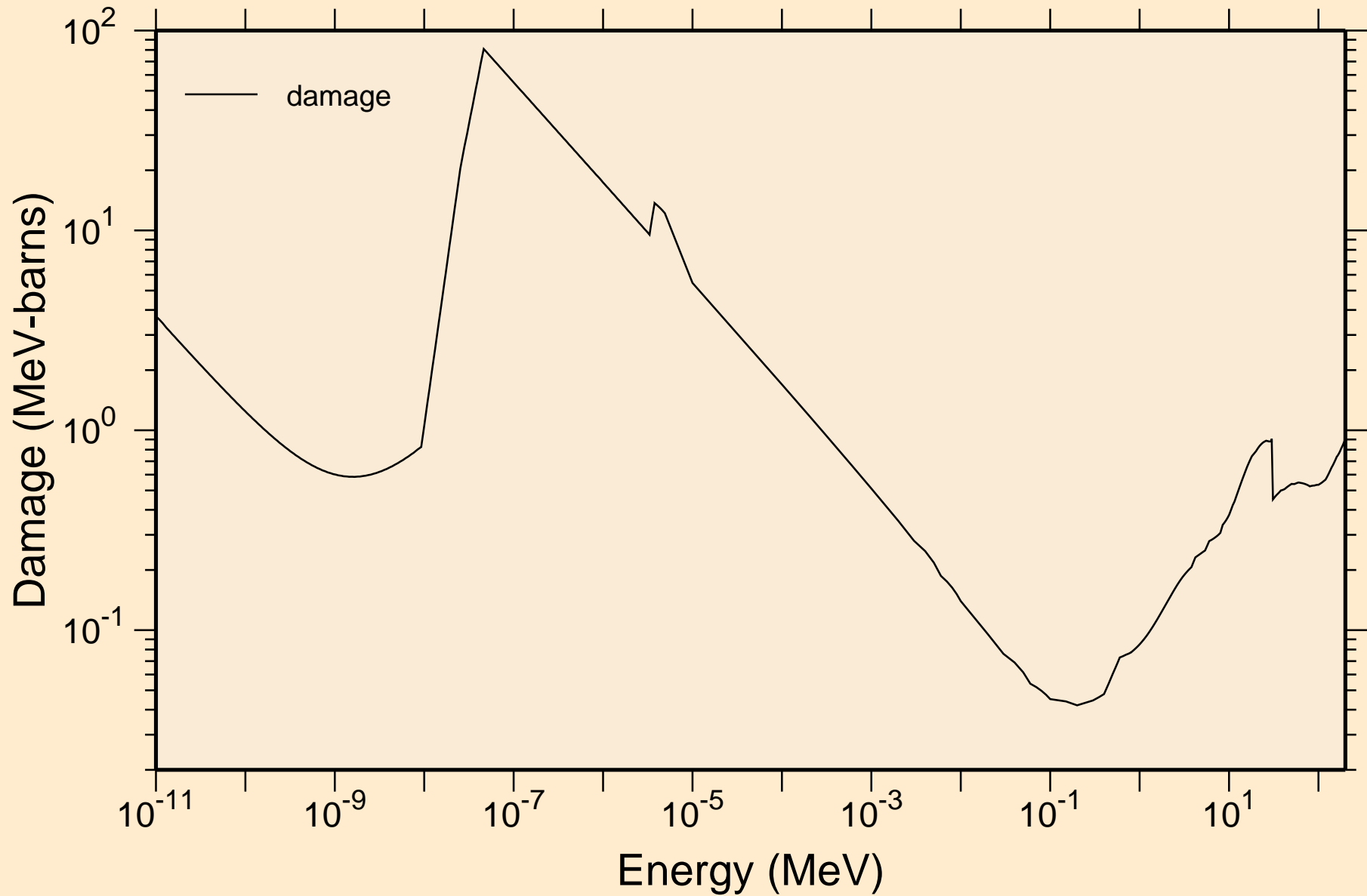


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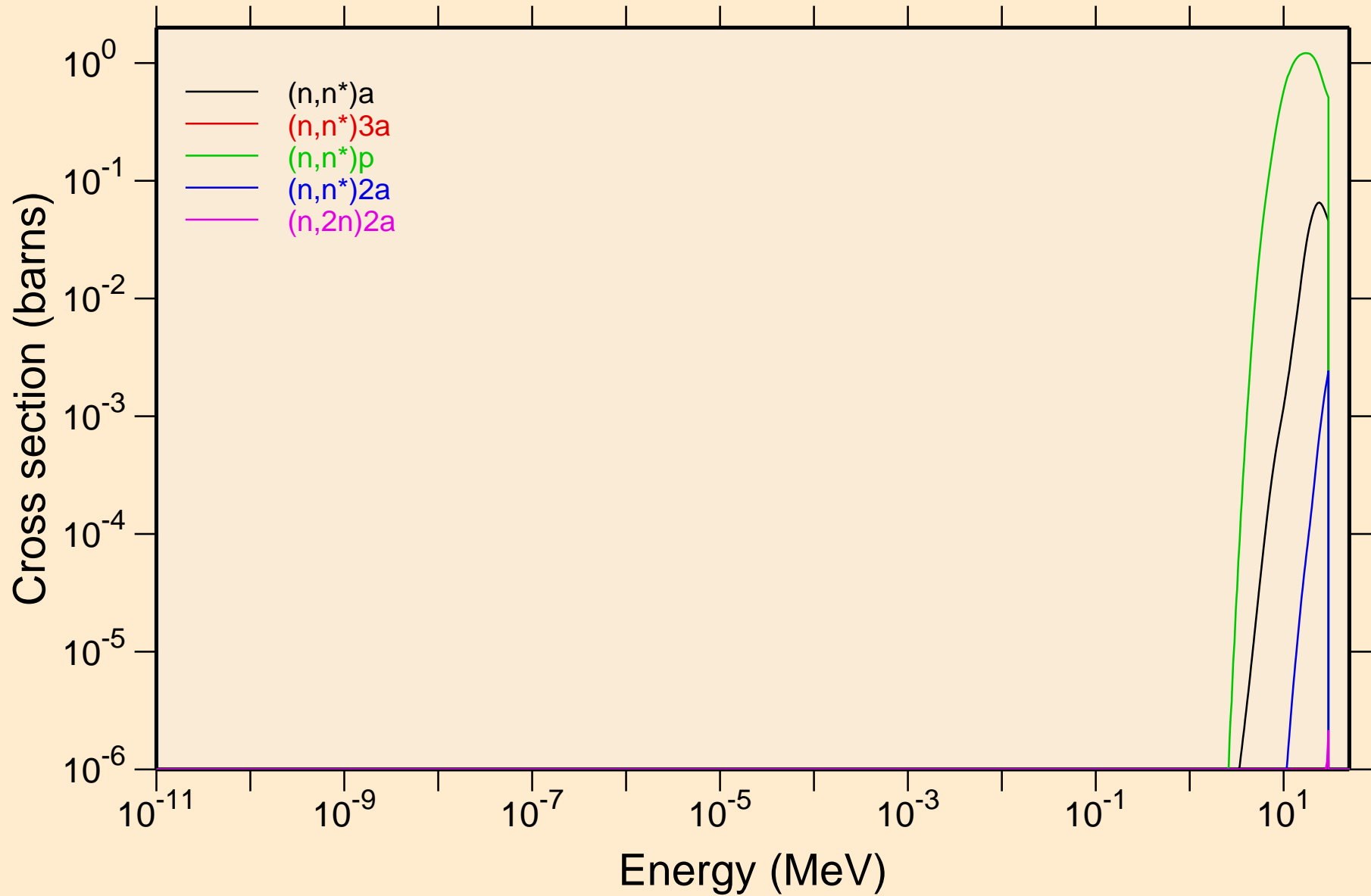
## Heating



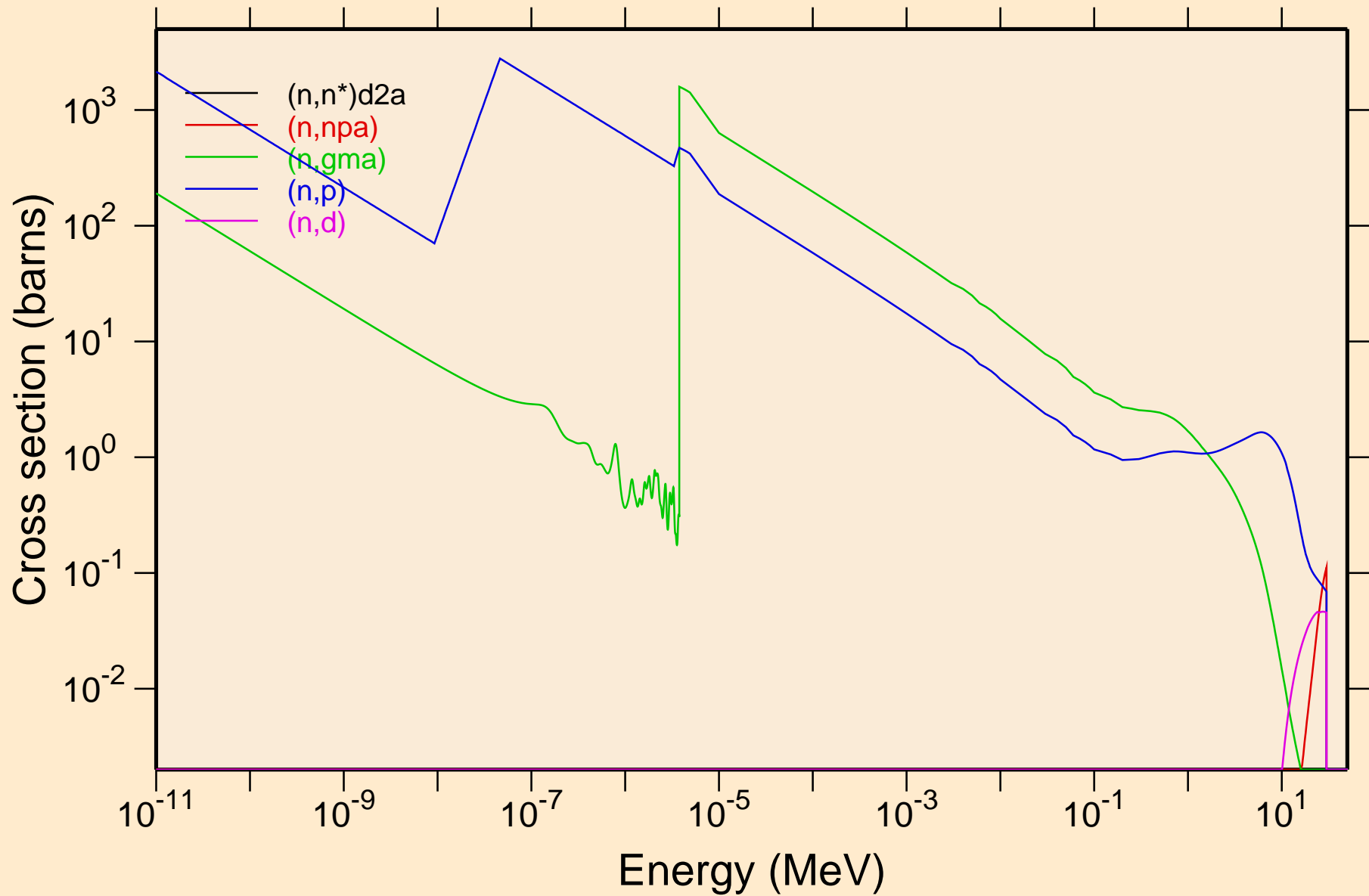
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Damage



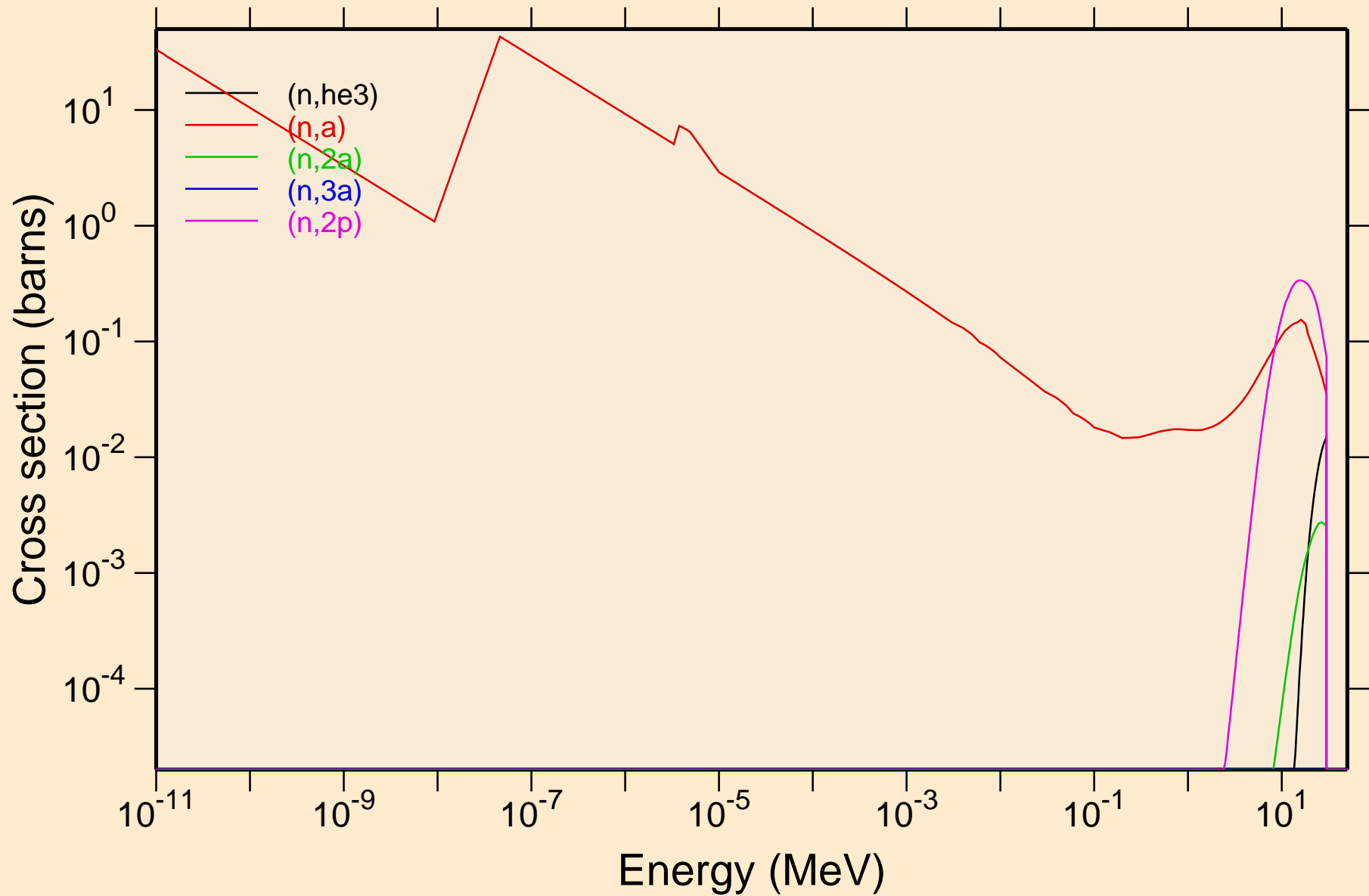
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Non-threshold reactions



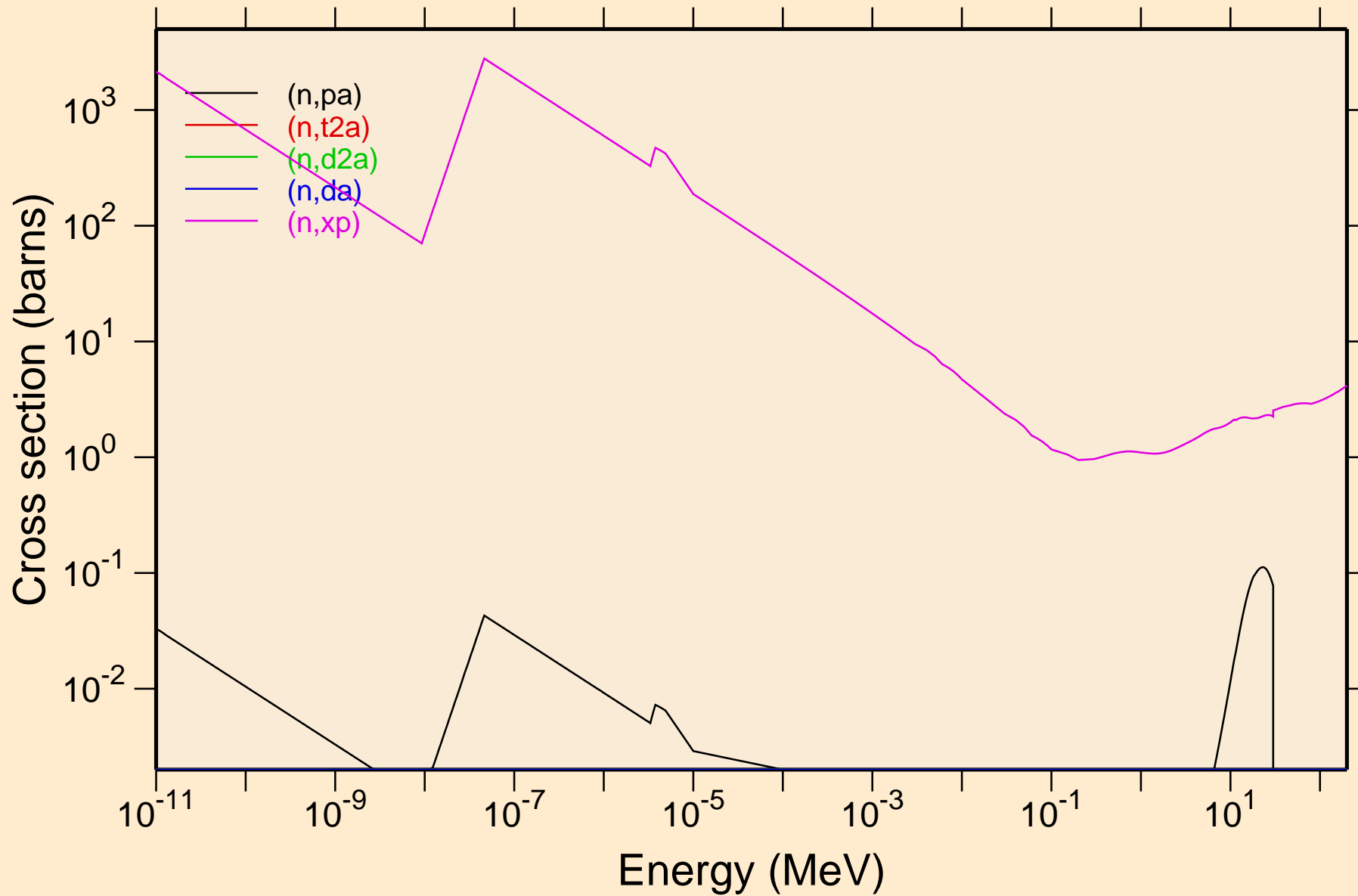
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Non-threshold reactions



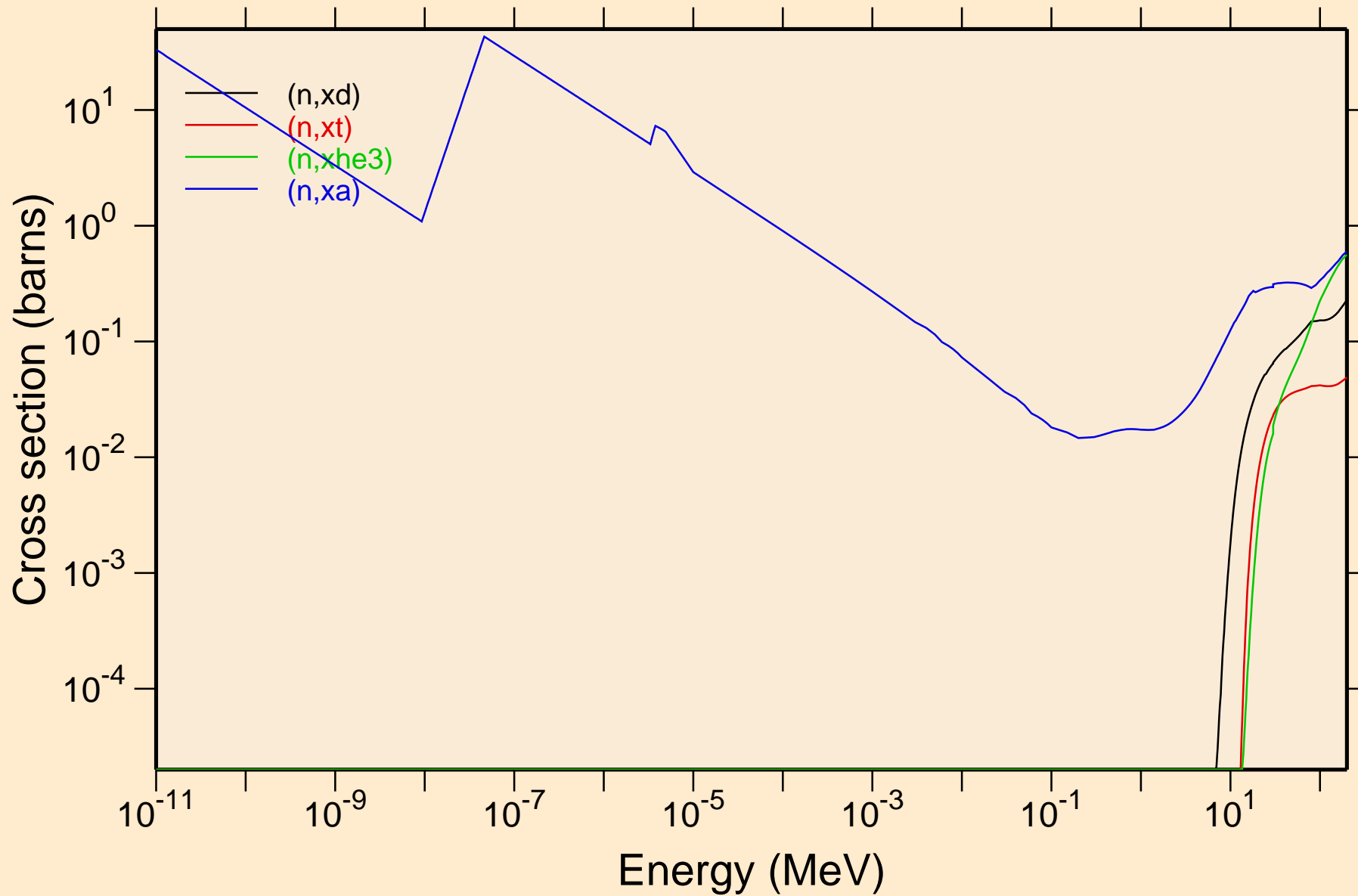
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Non-threshold reactions



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



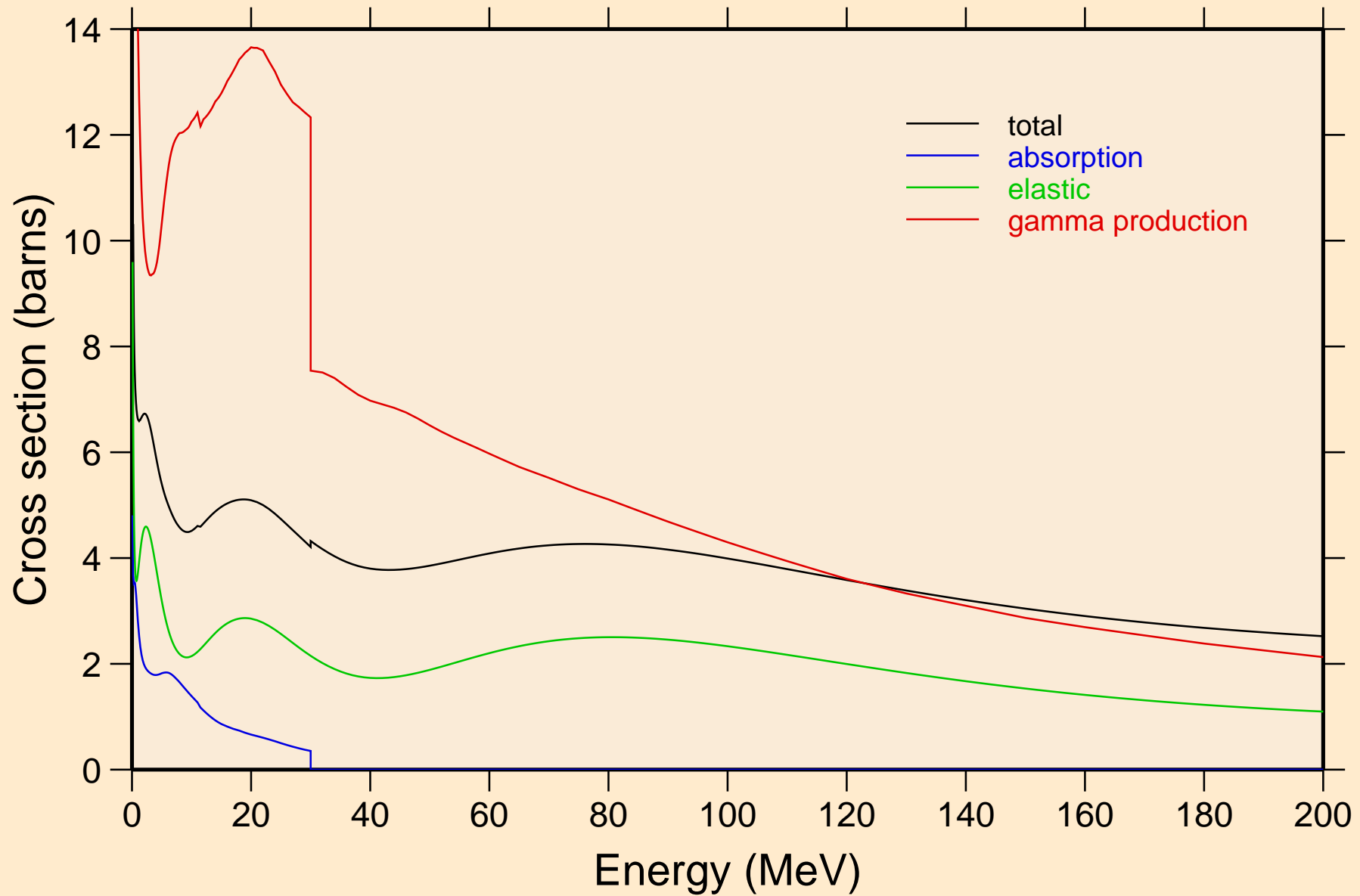
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Non-threshold reactions





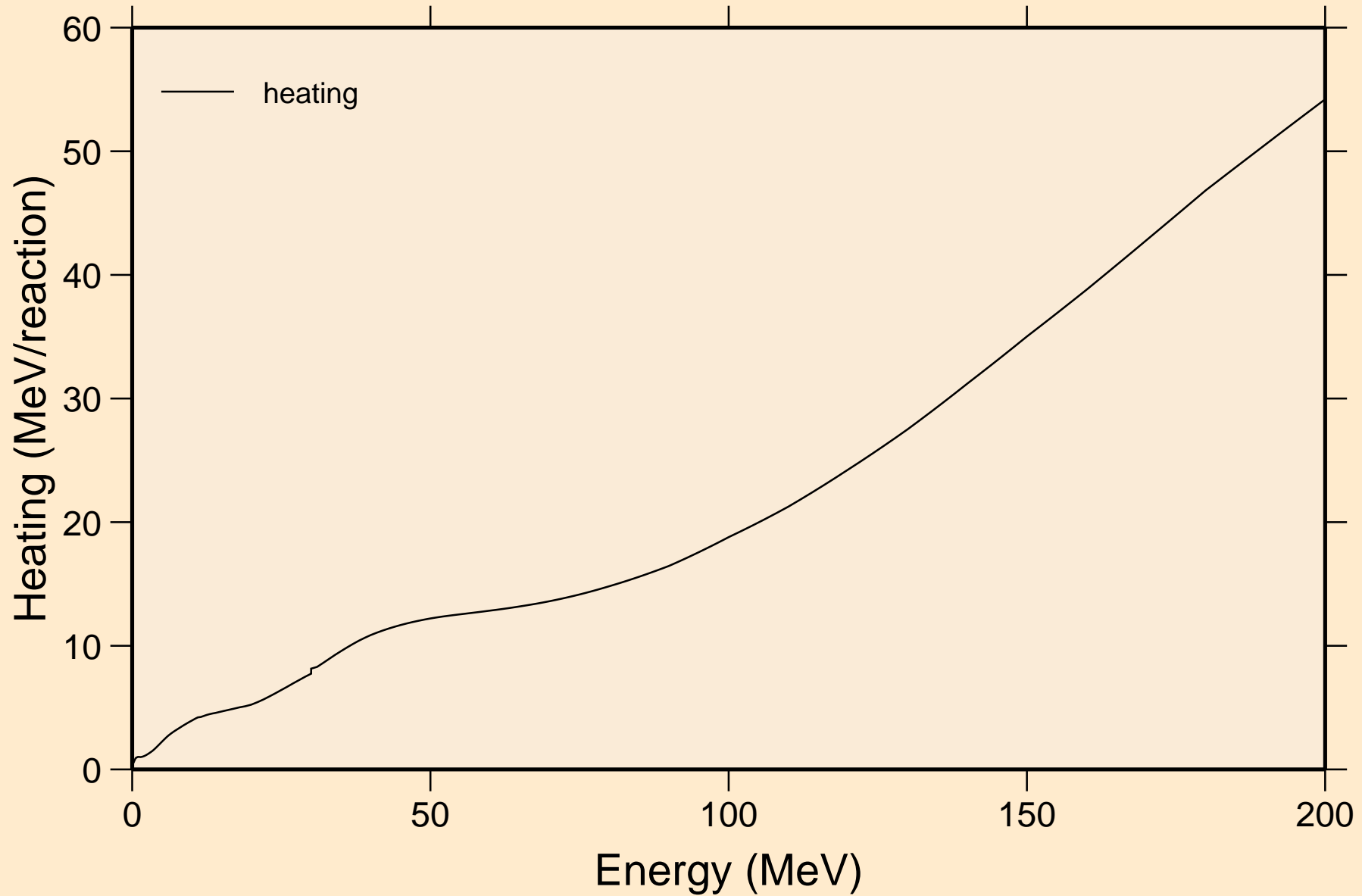
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## Principal cross sections

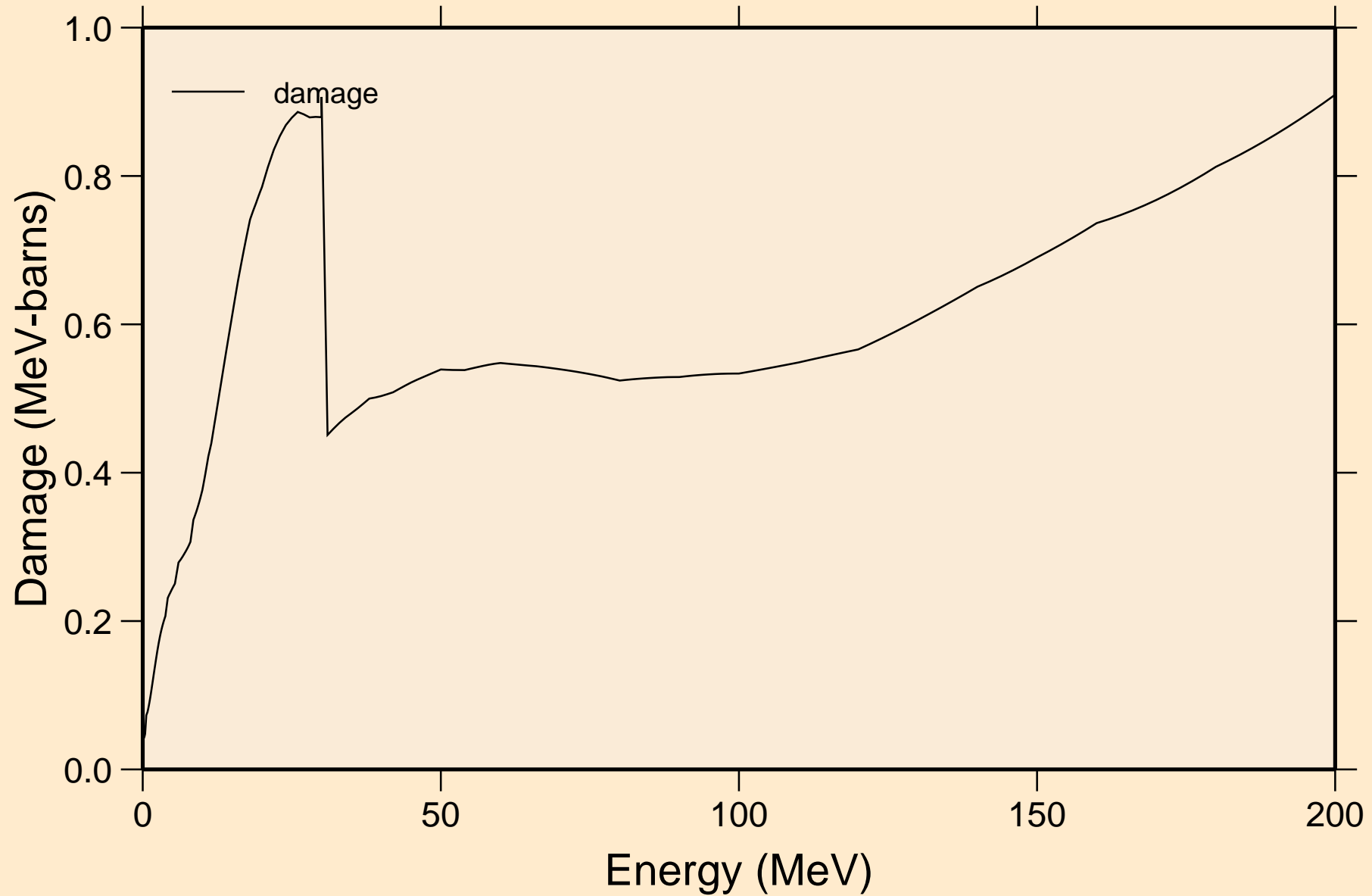


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## Heating

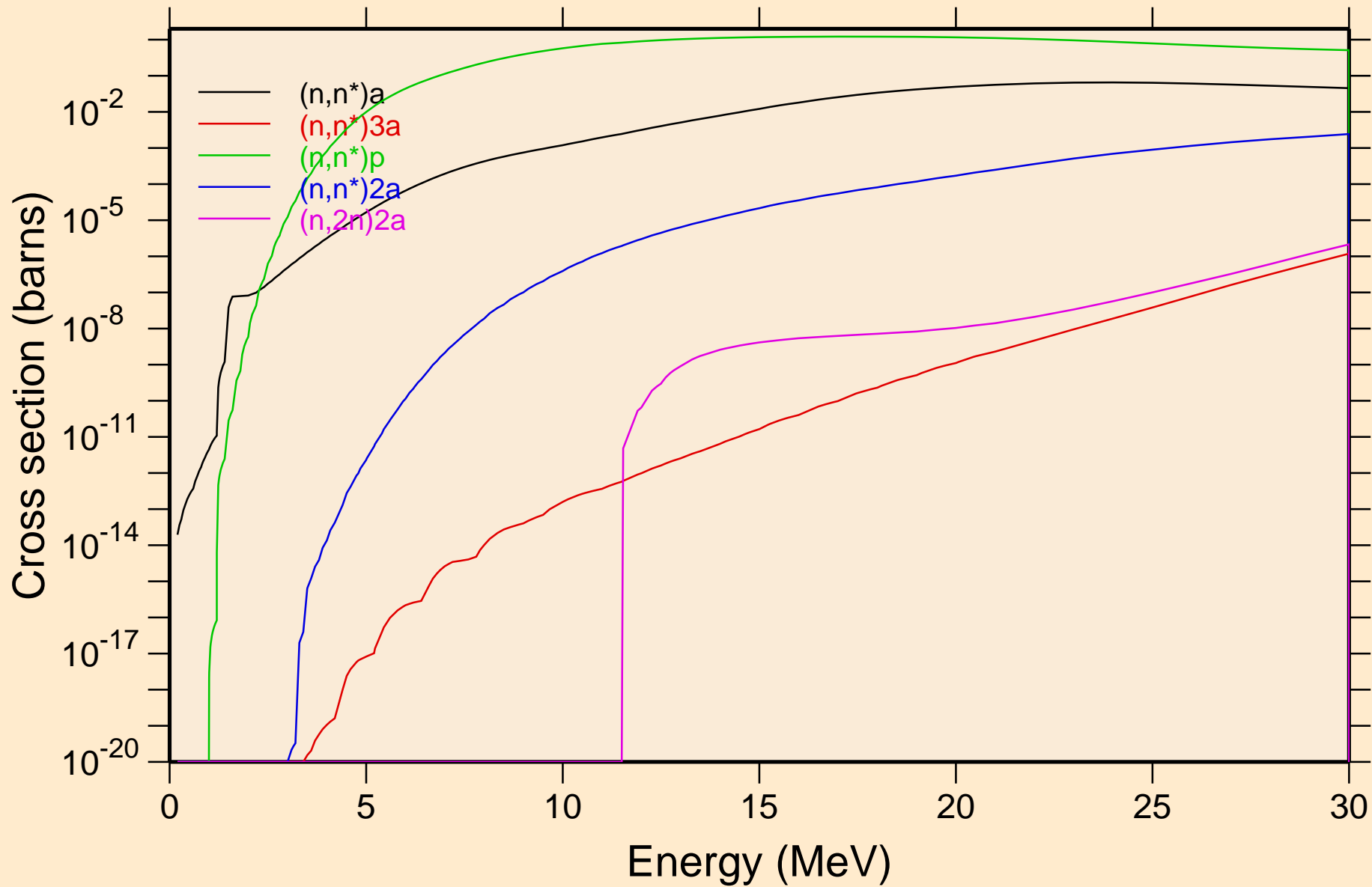


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Damage

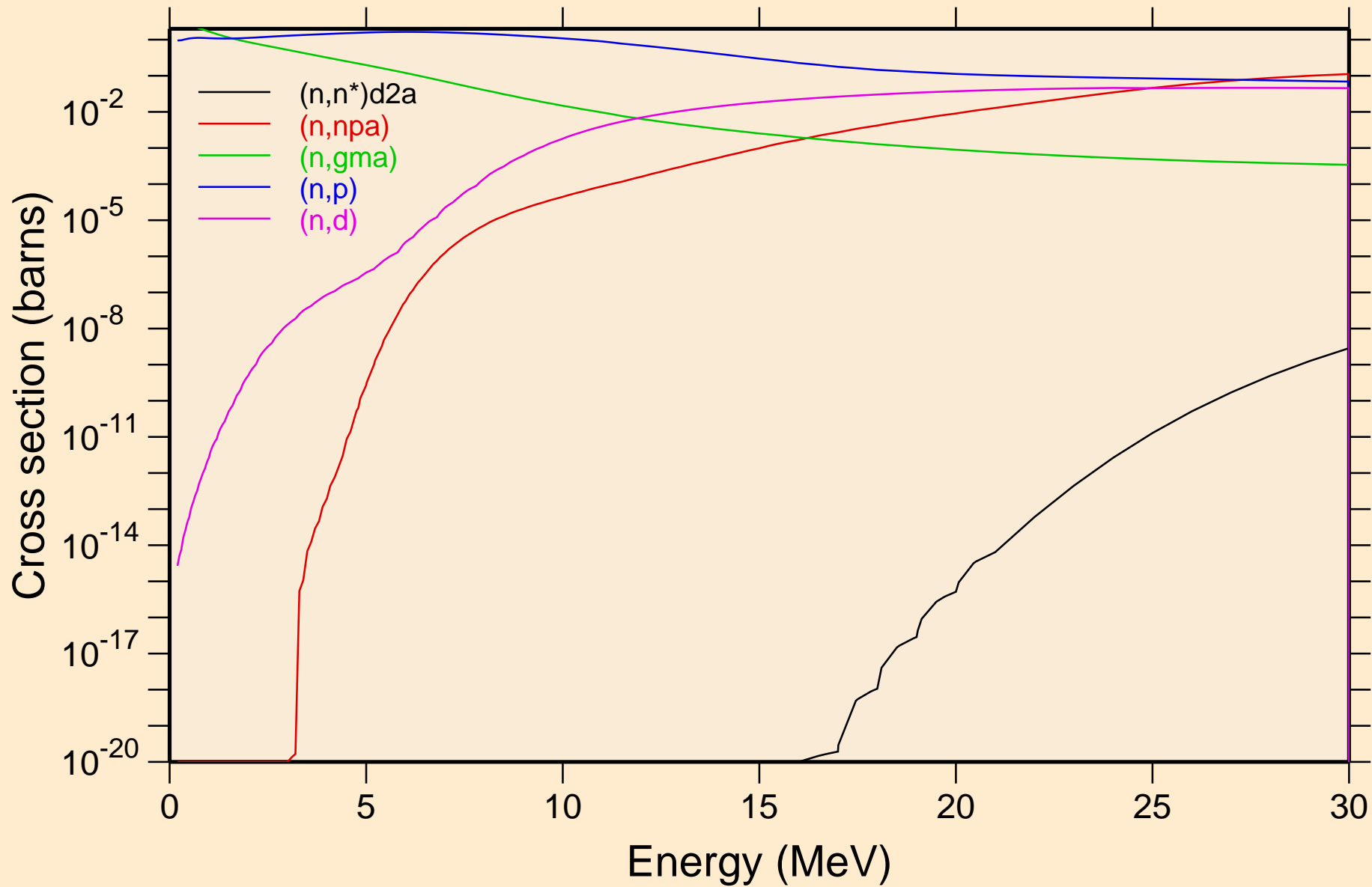


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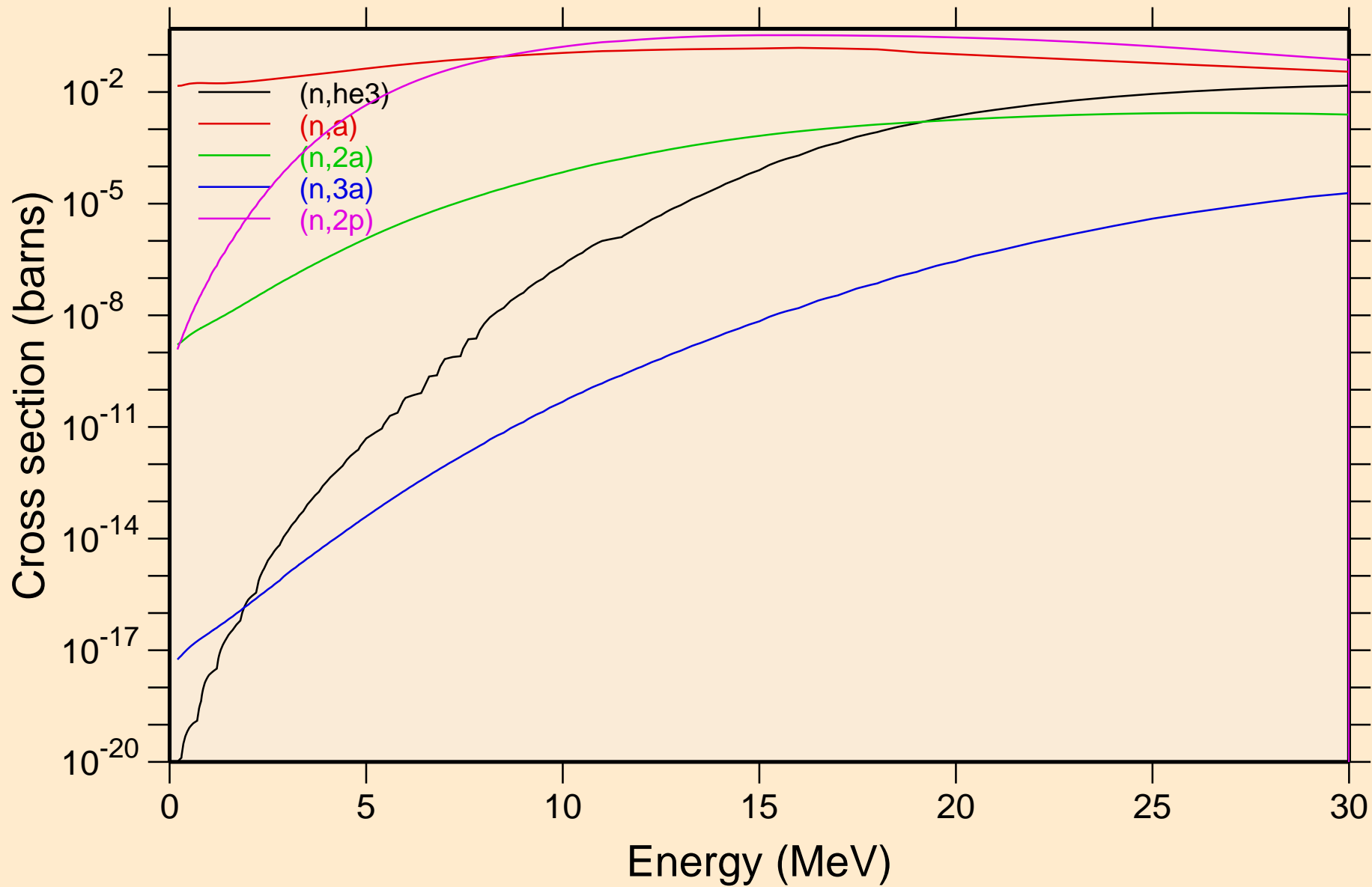
## Non-threshold reactions



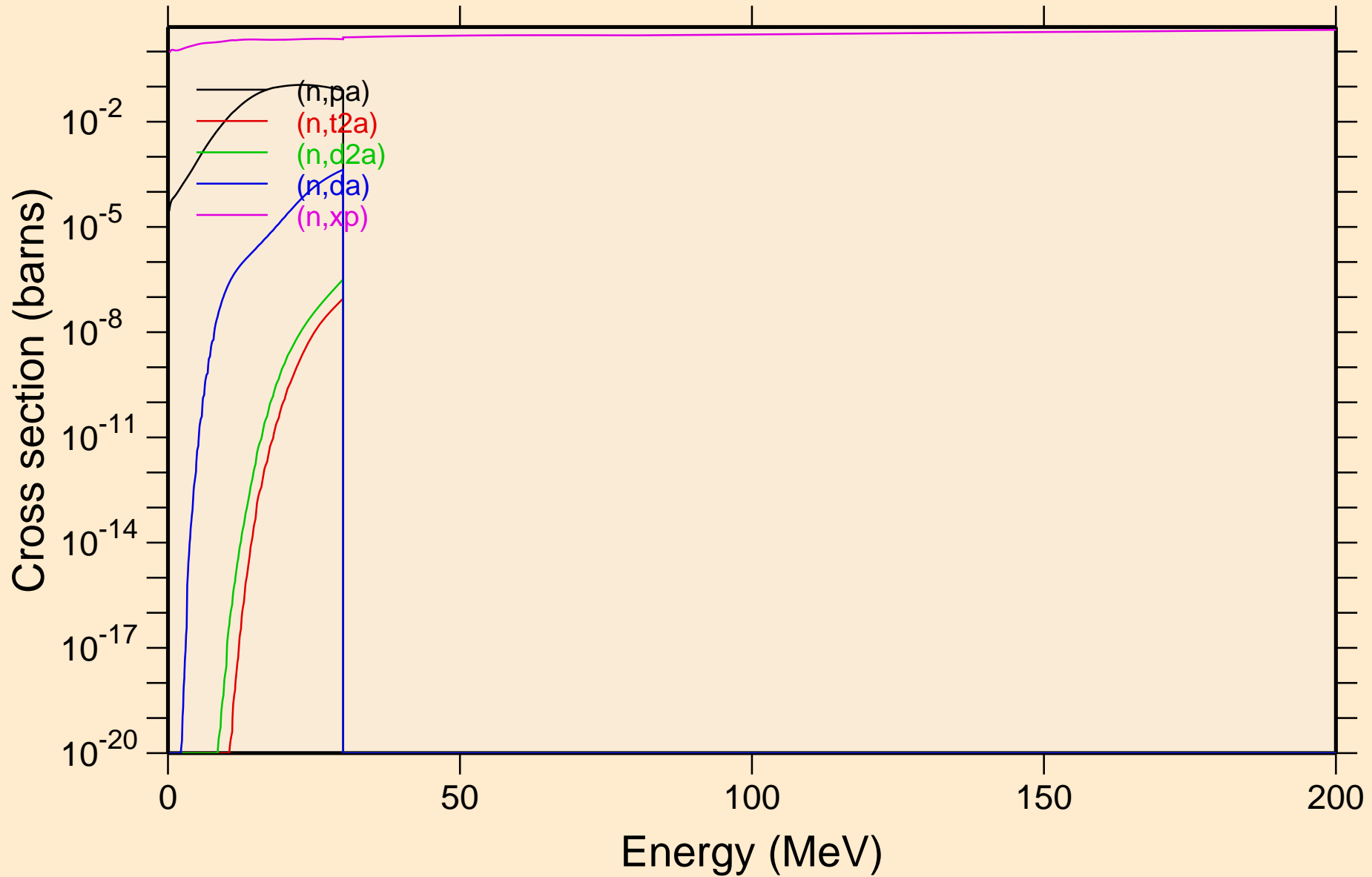
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Non-threshold reactions



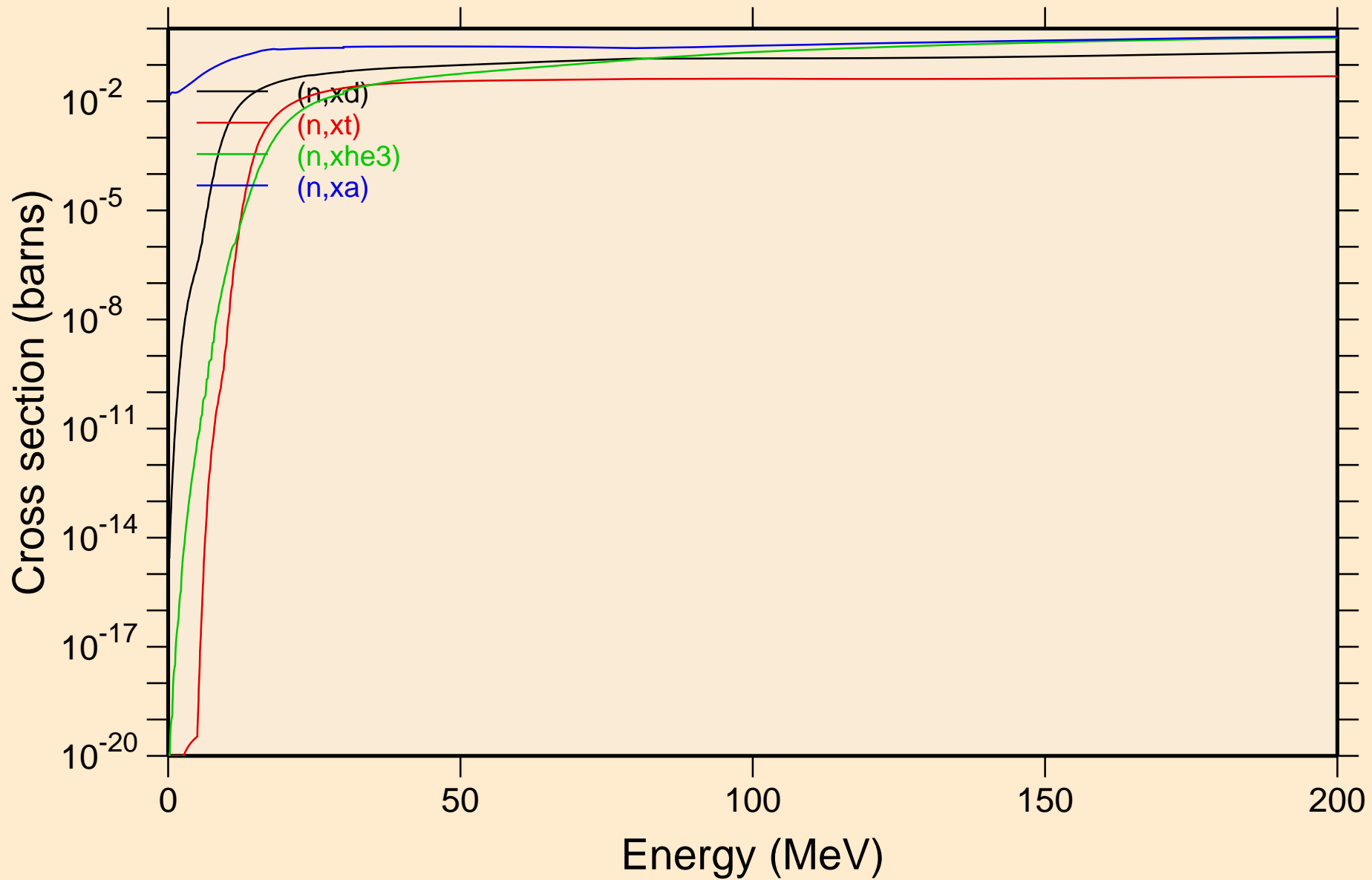
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Non-threshold reactions



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Non-threshold reactions

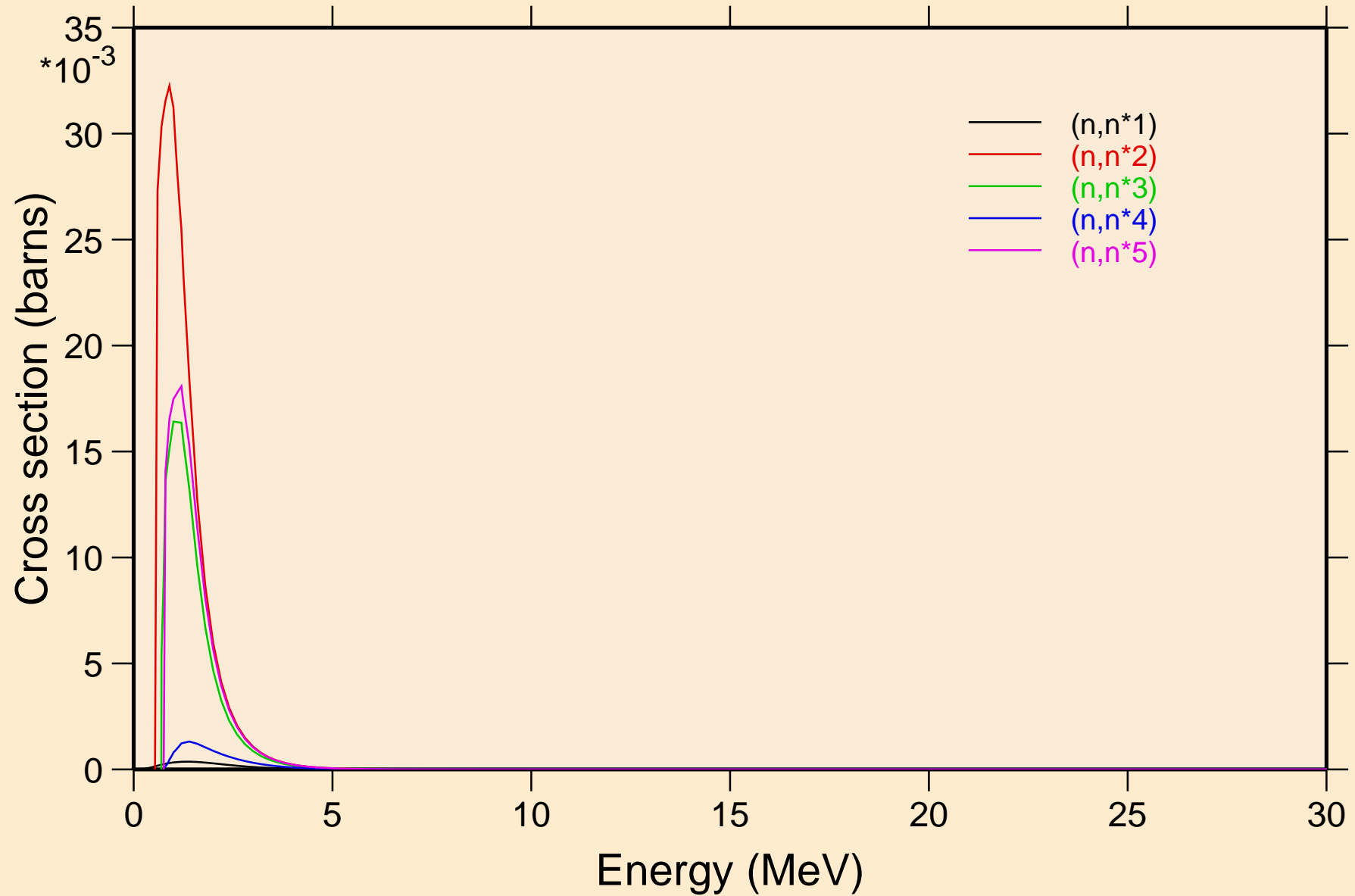


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Non-threshold reactions

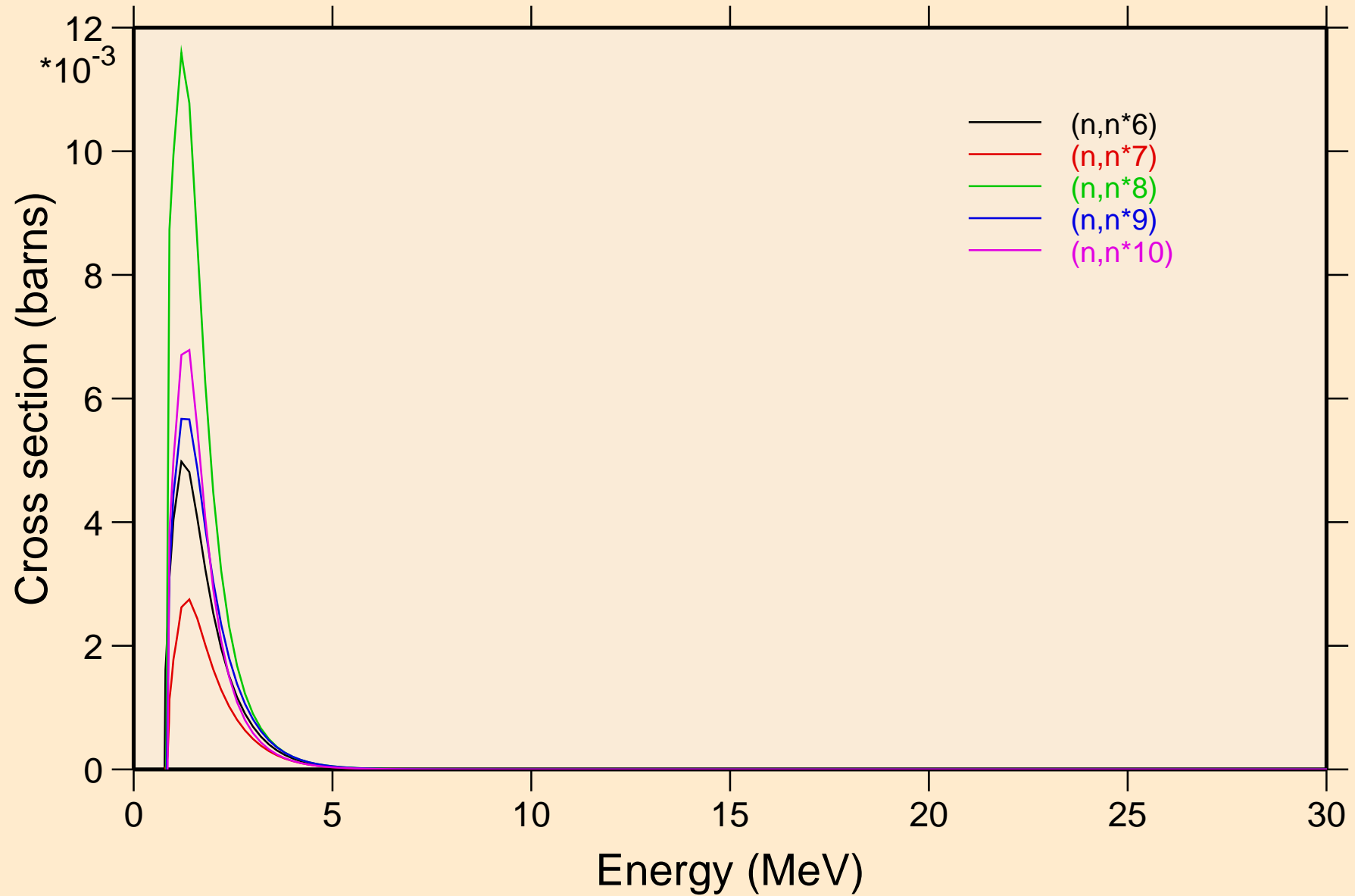




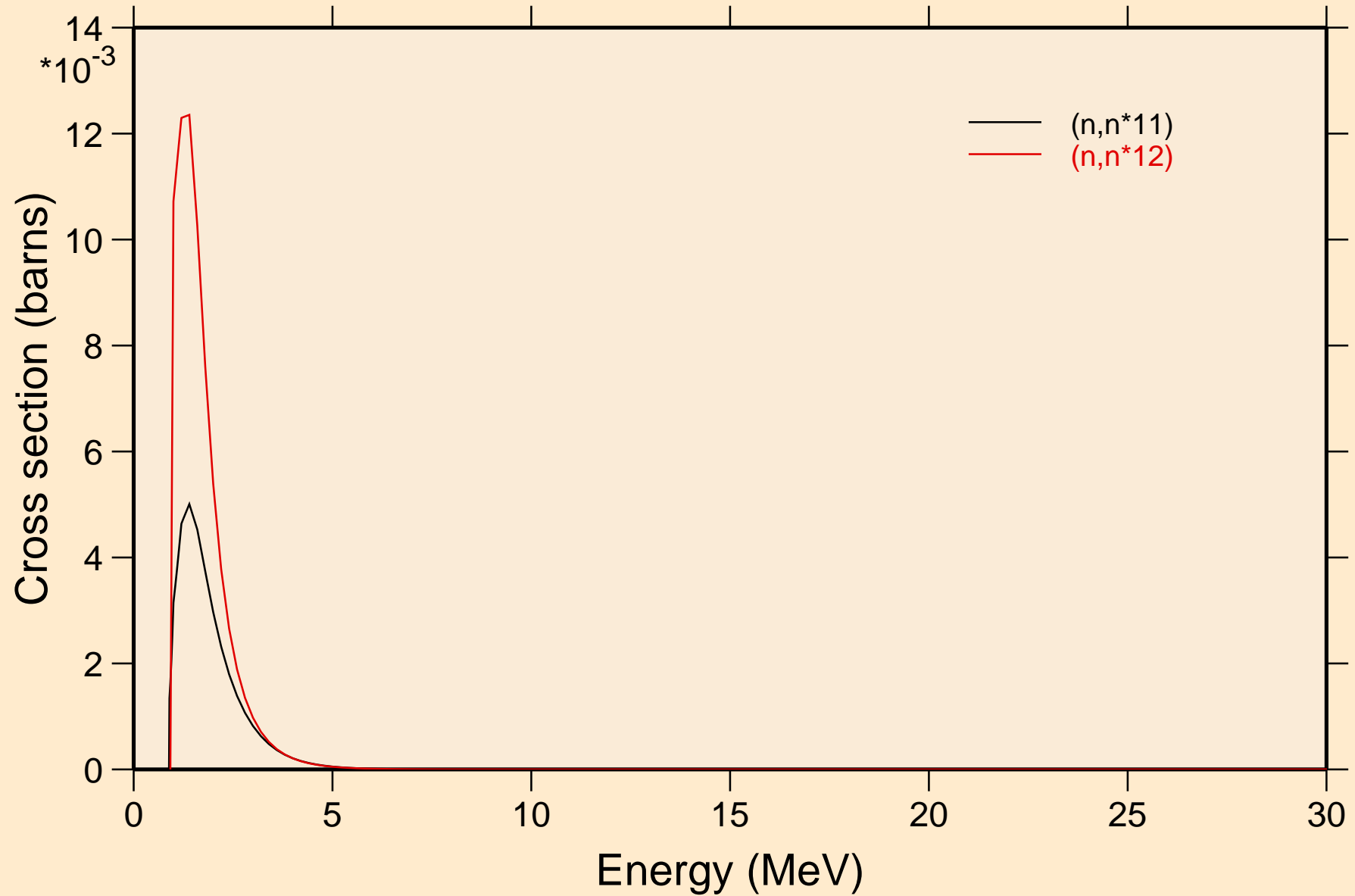
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Inelastic levels



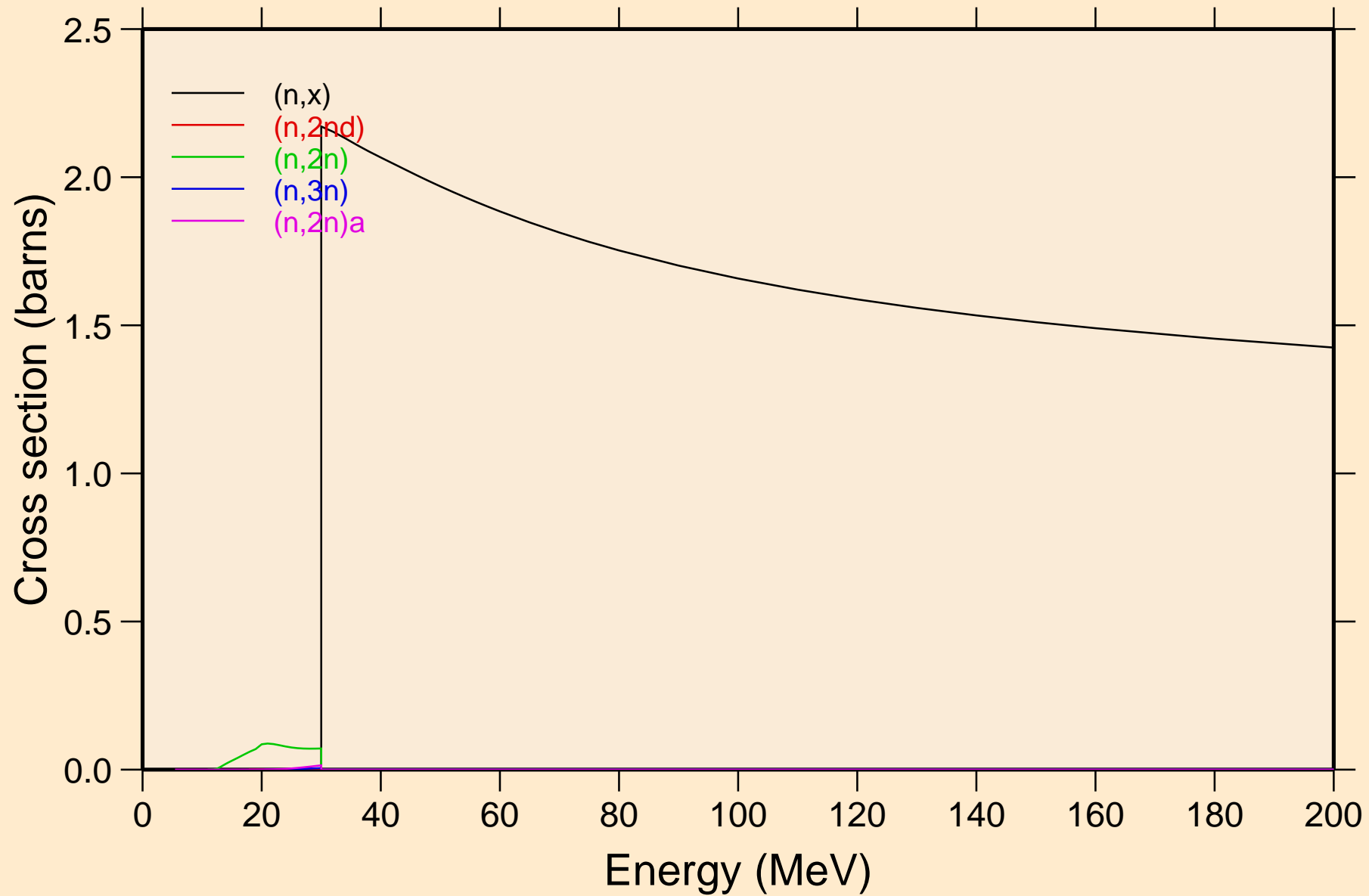
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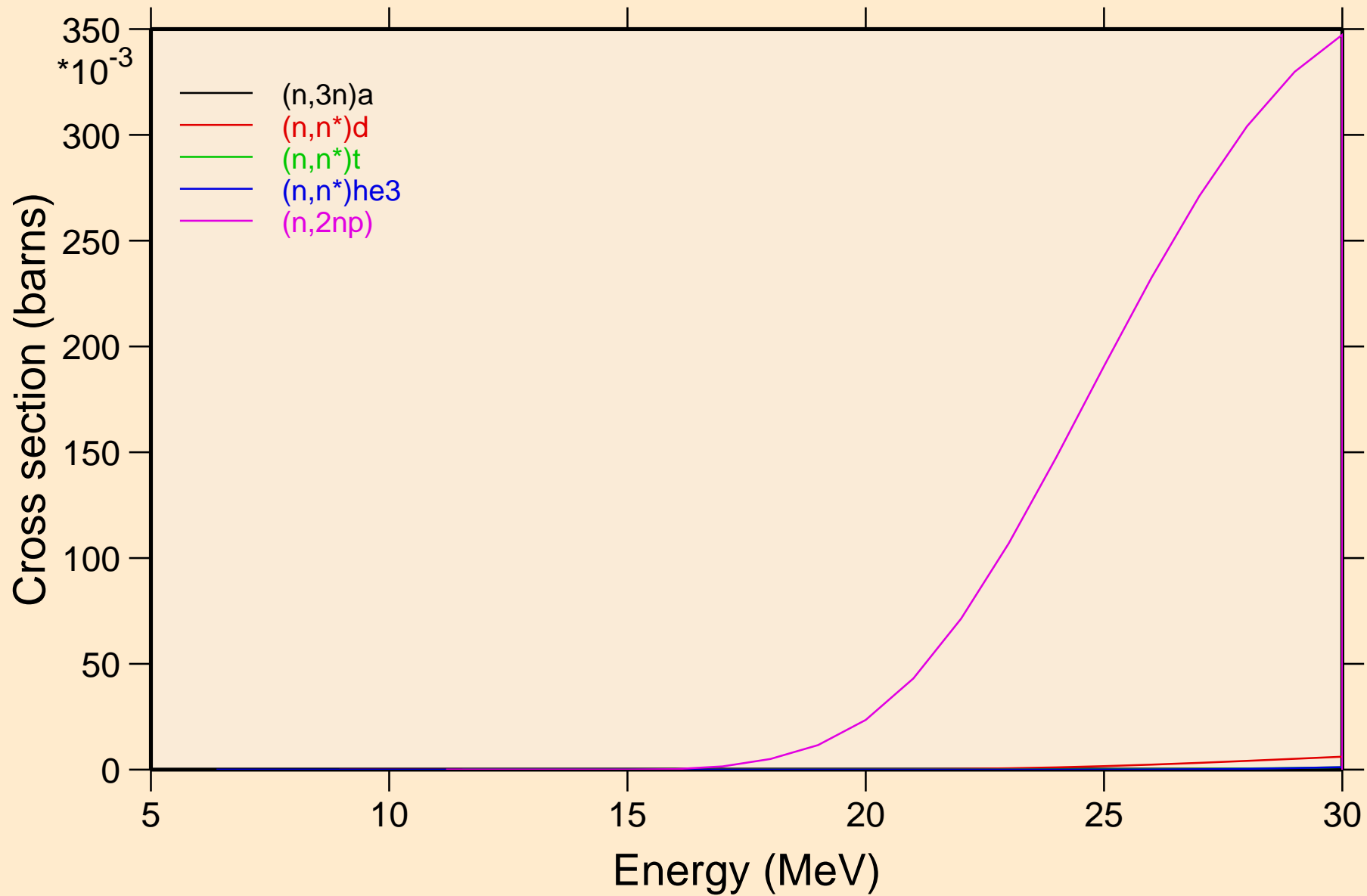
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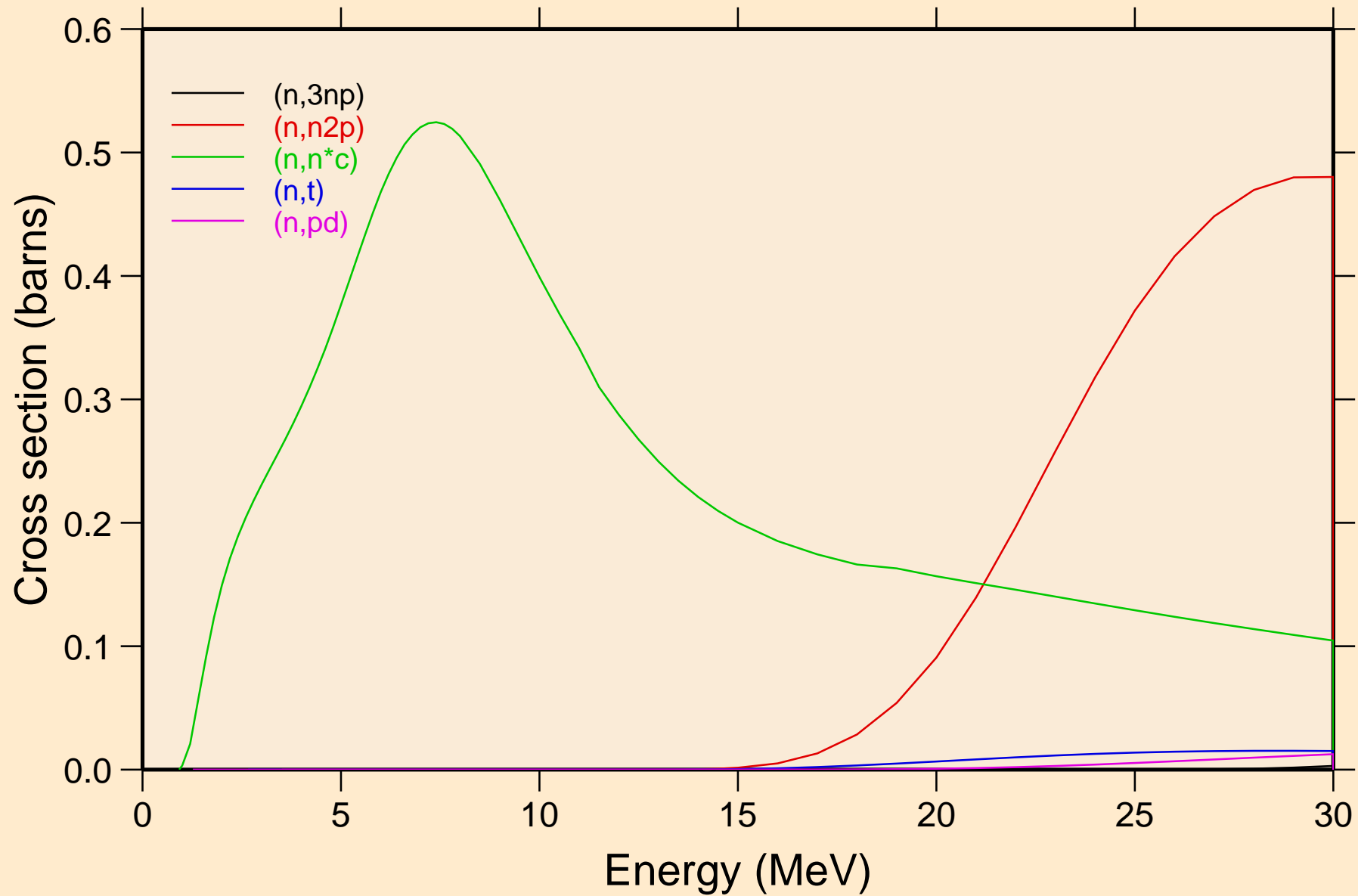
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Threshold reactions



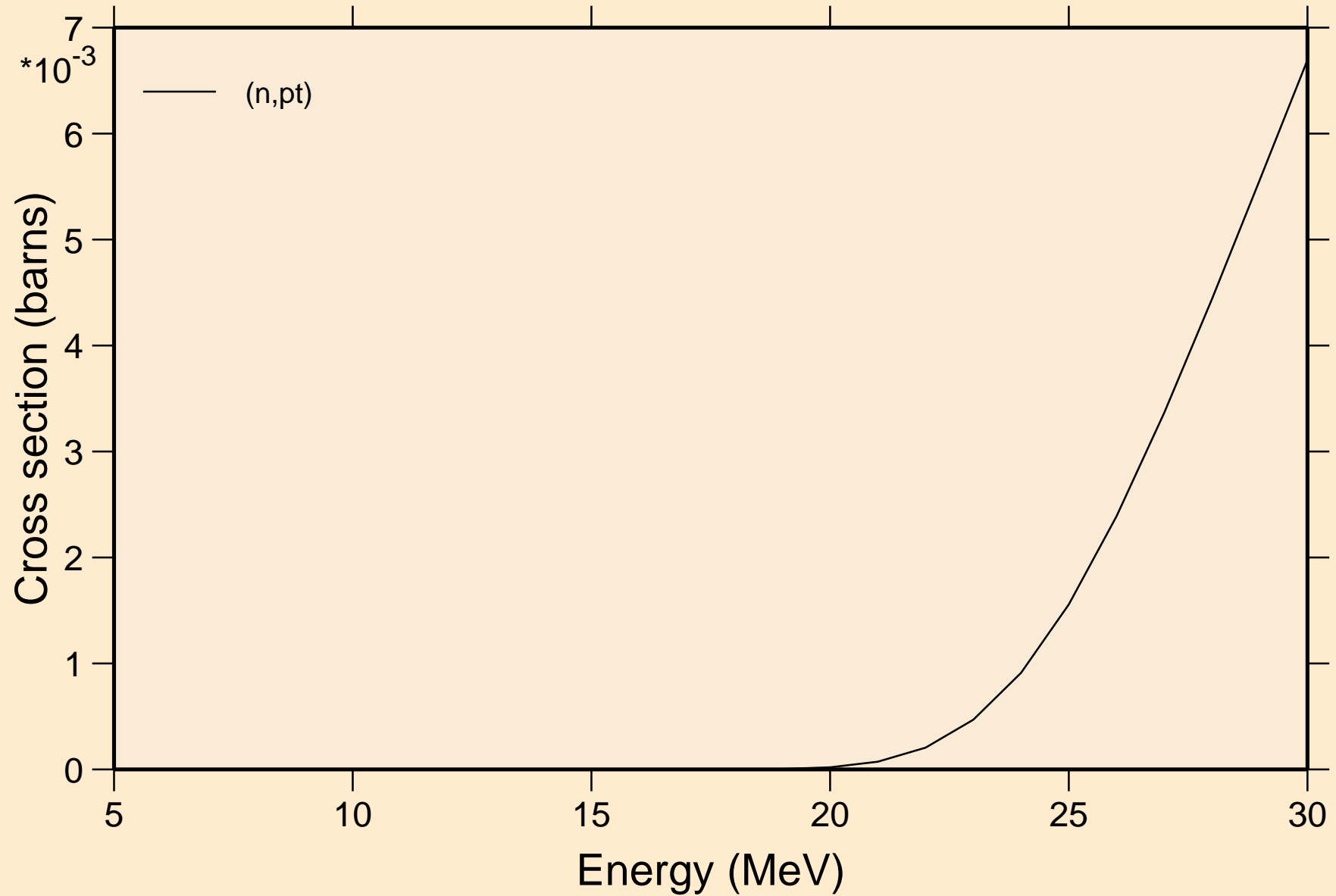
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Threshold reactions



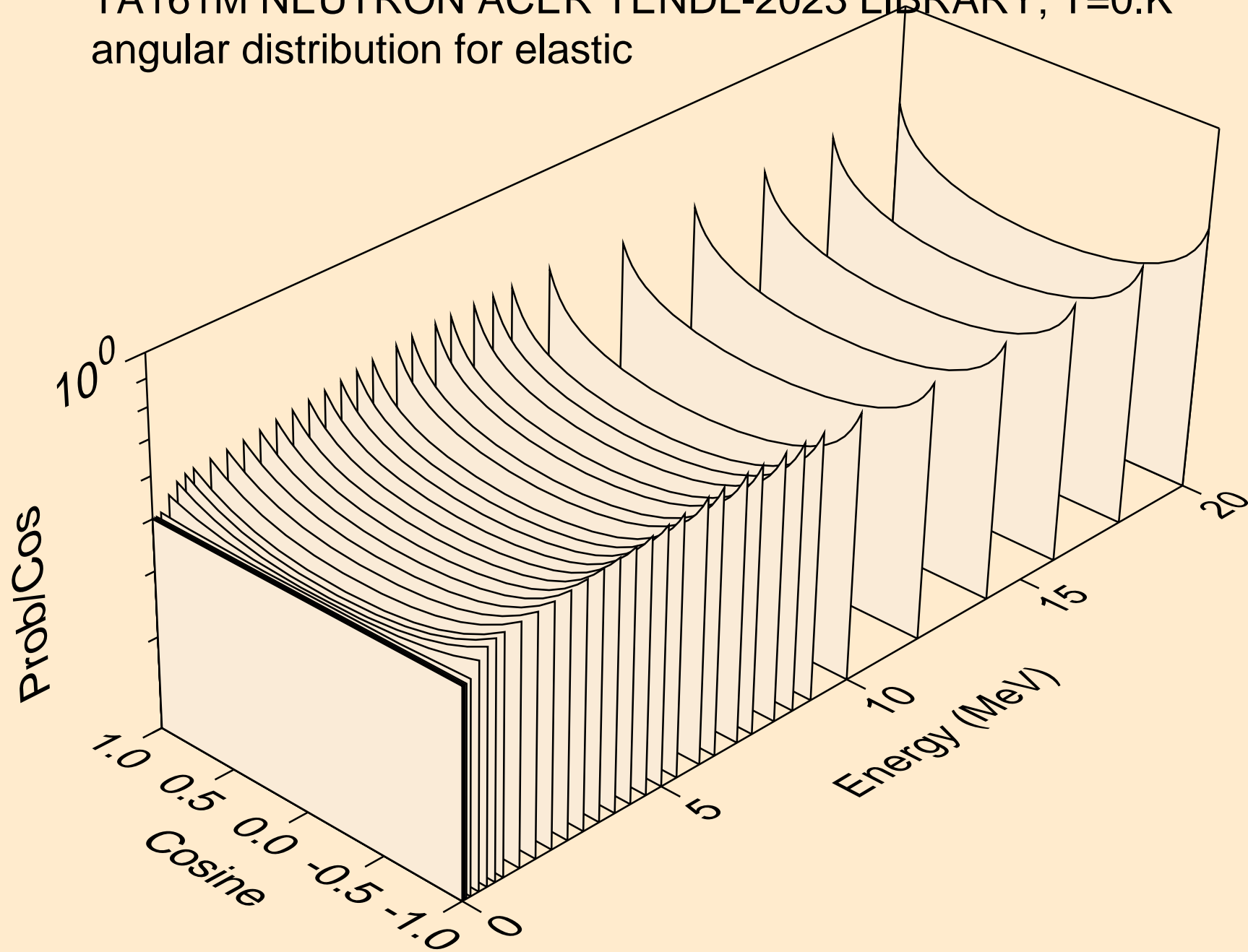
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Threshold reactions



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

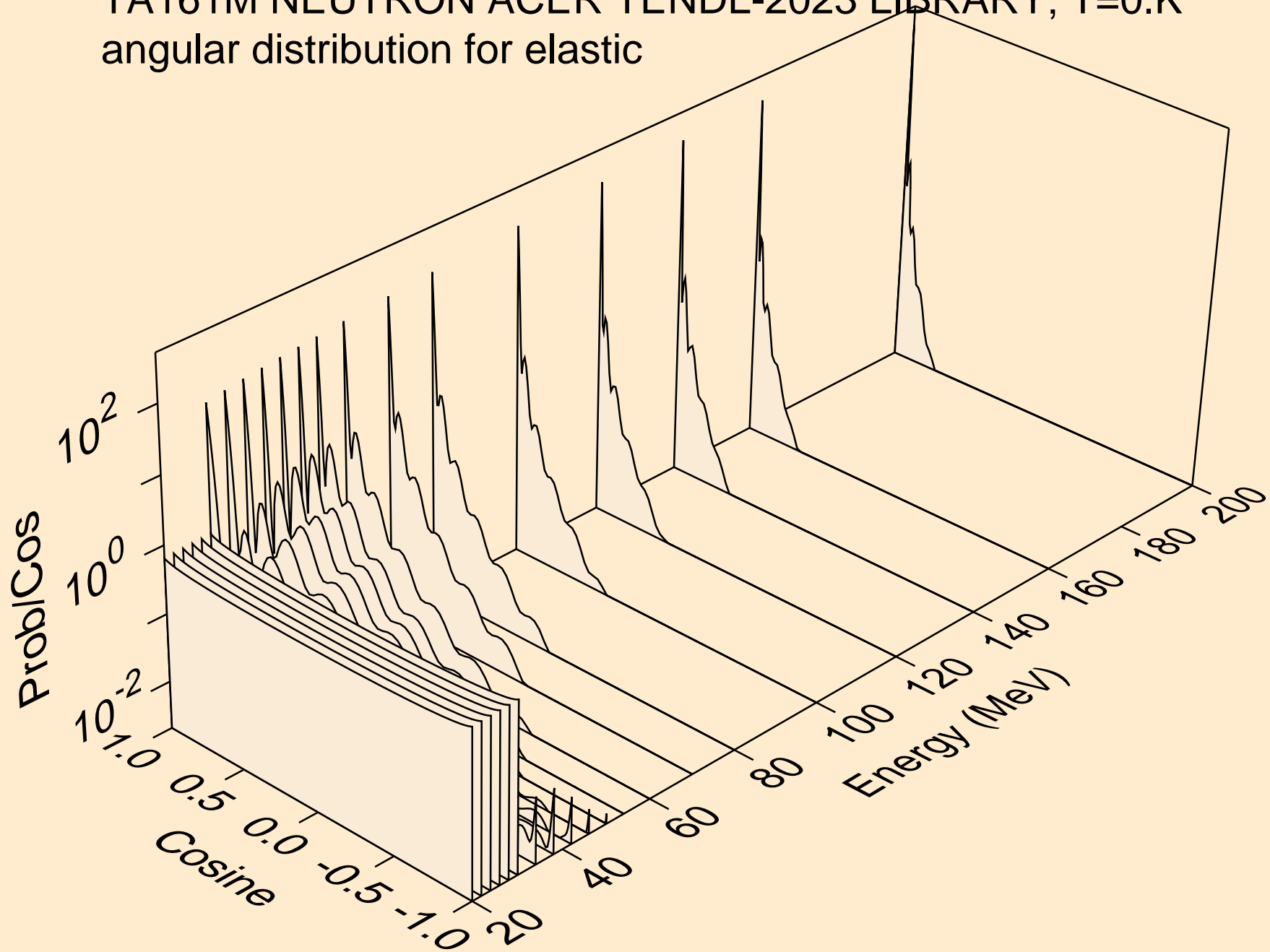


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angular distribution for elastic

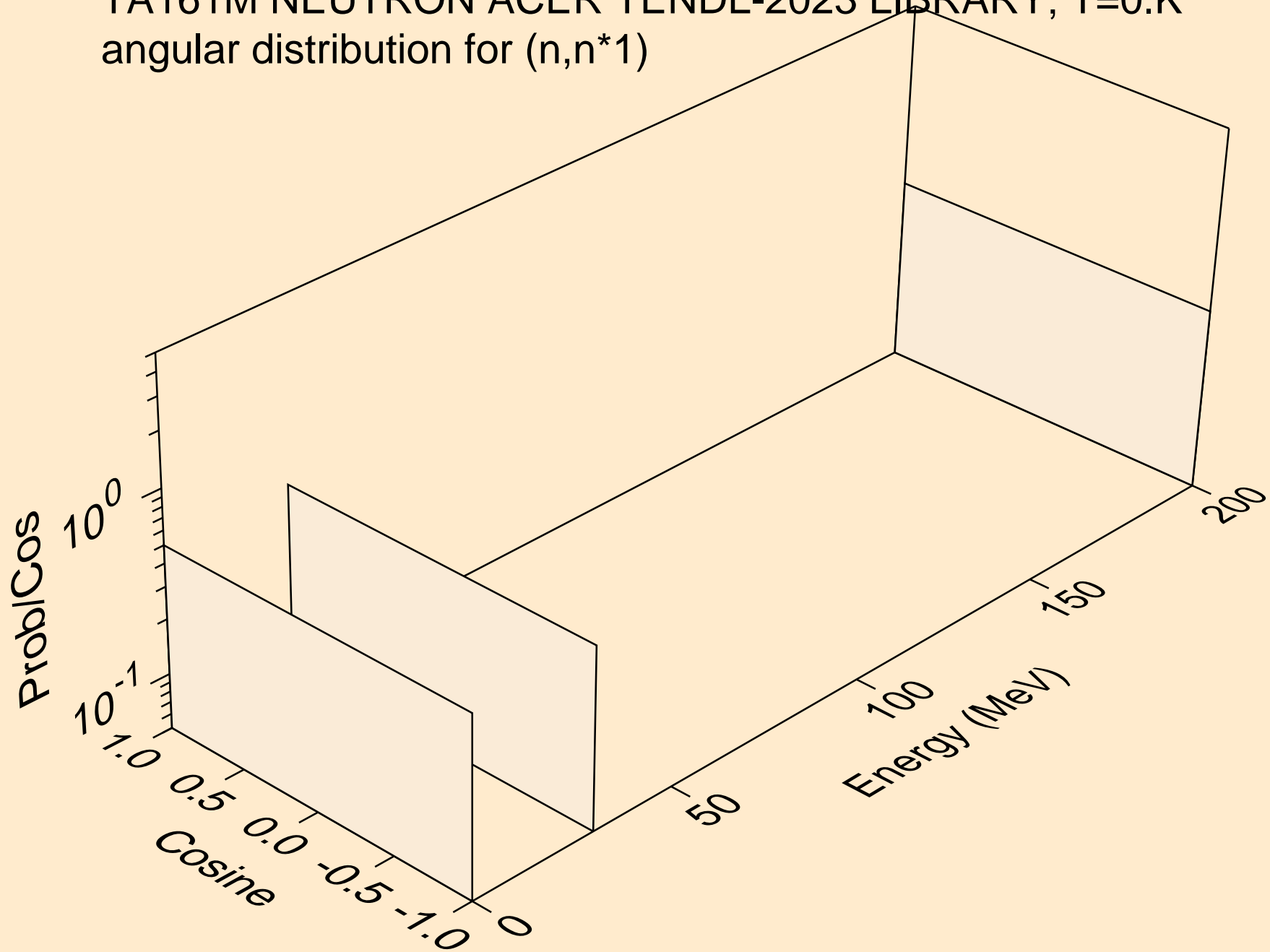




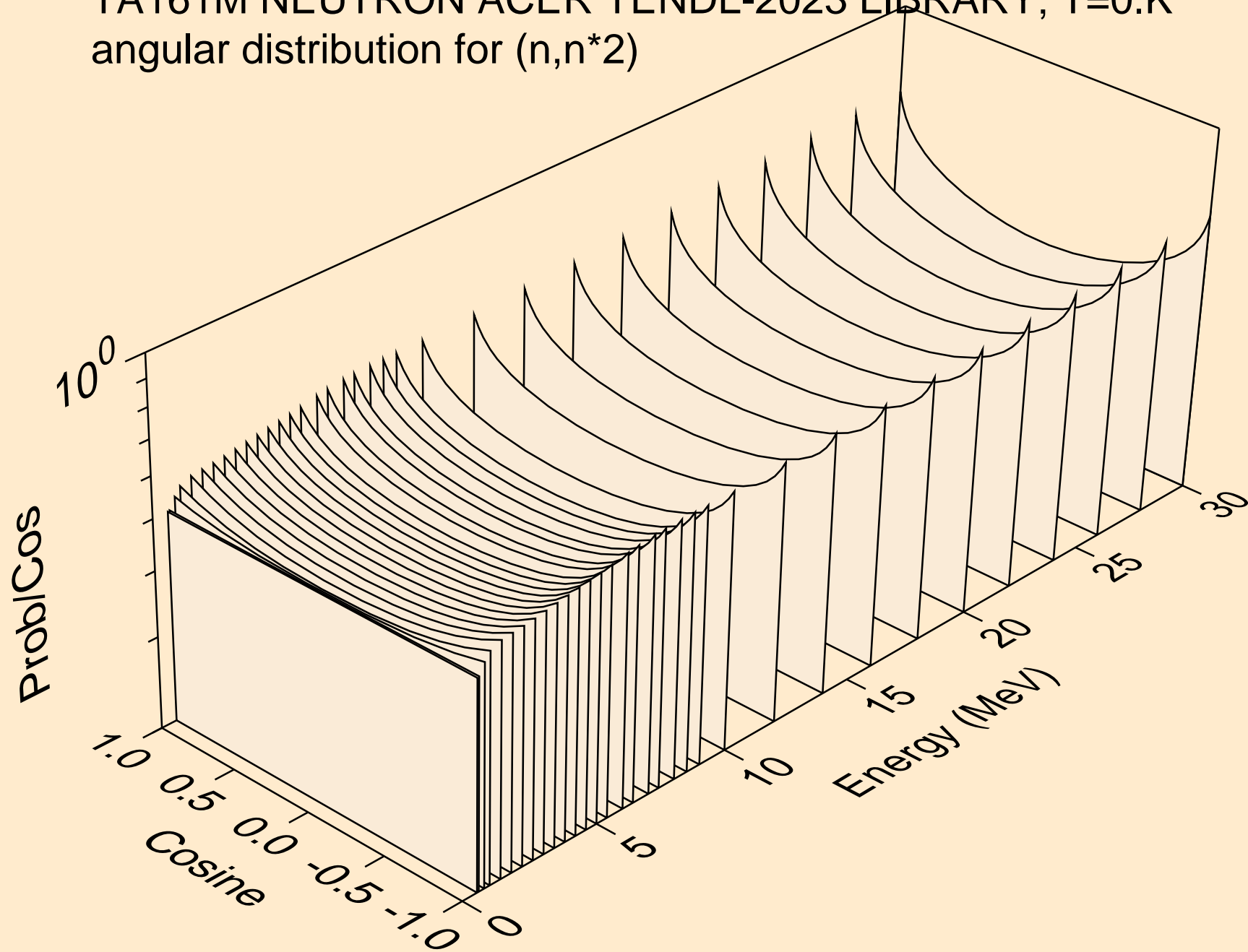
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angular distribution for elastic



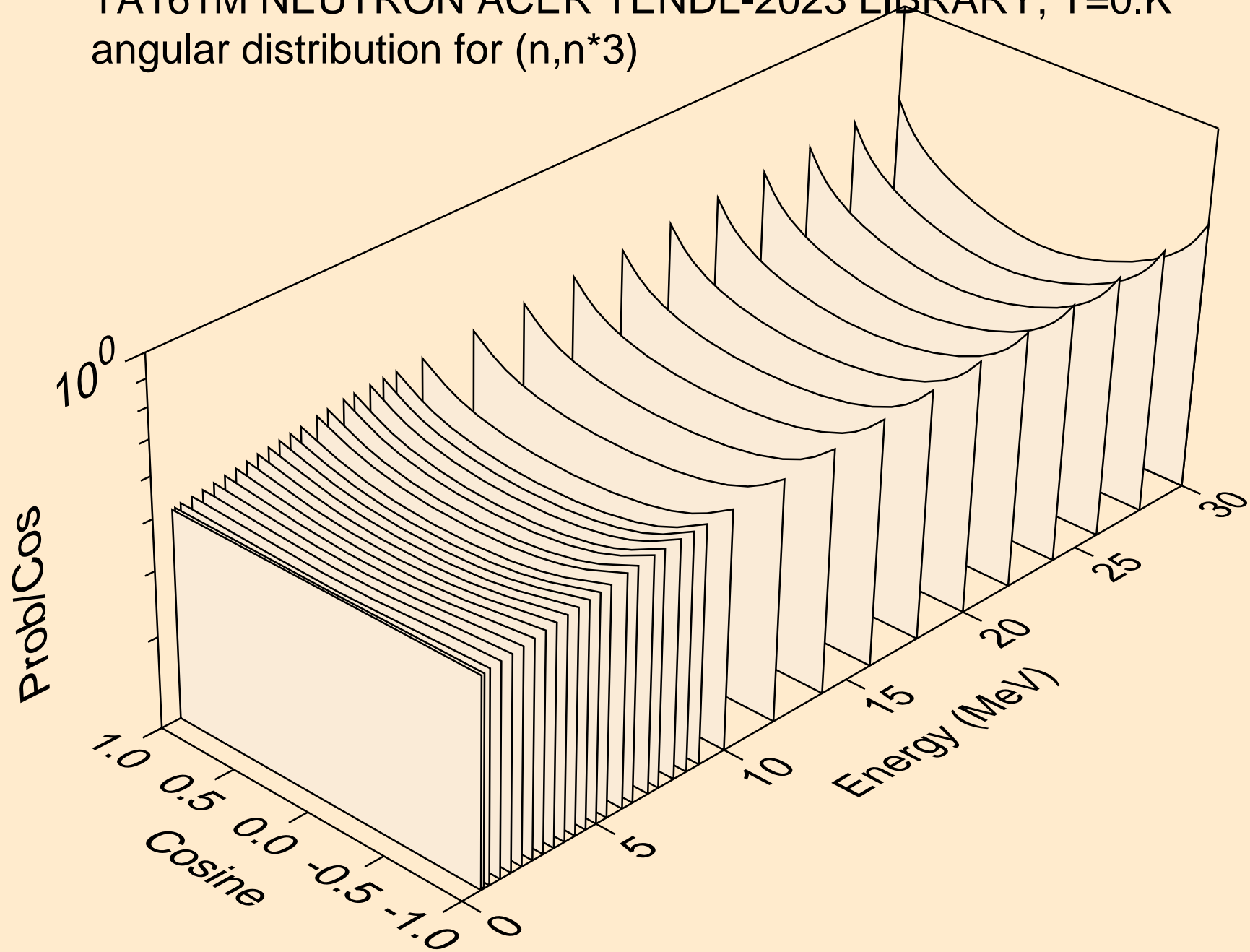
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angular distribution for (n,n\*1)



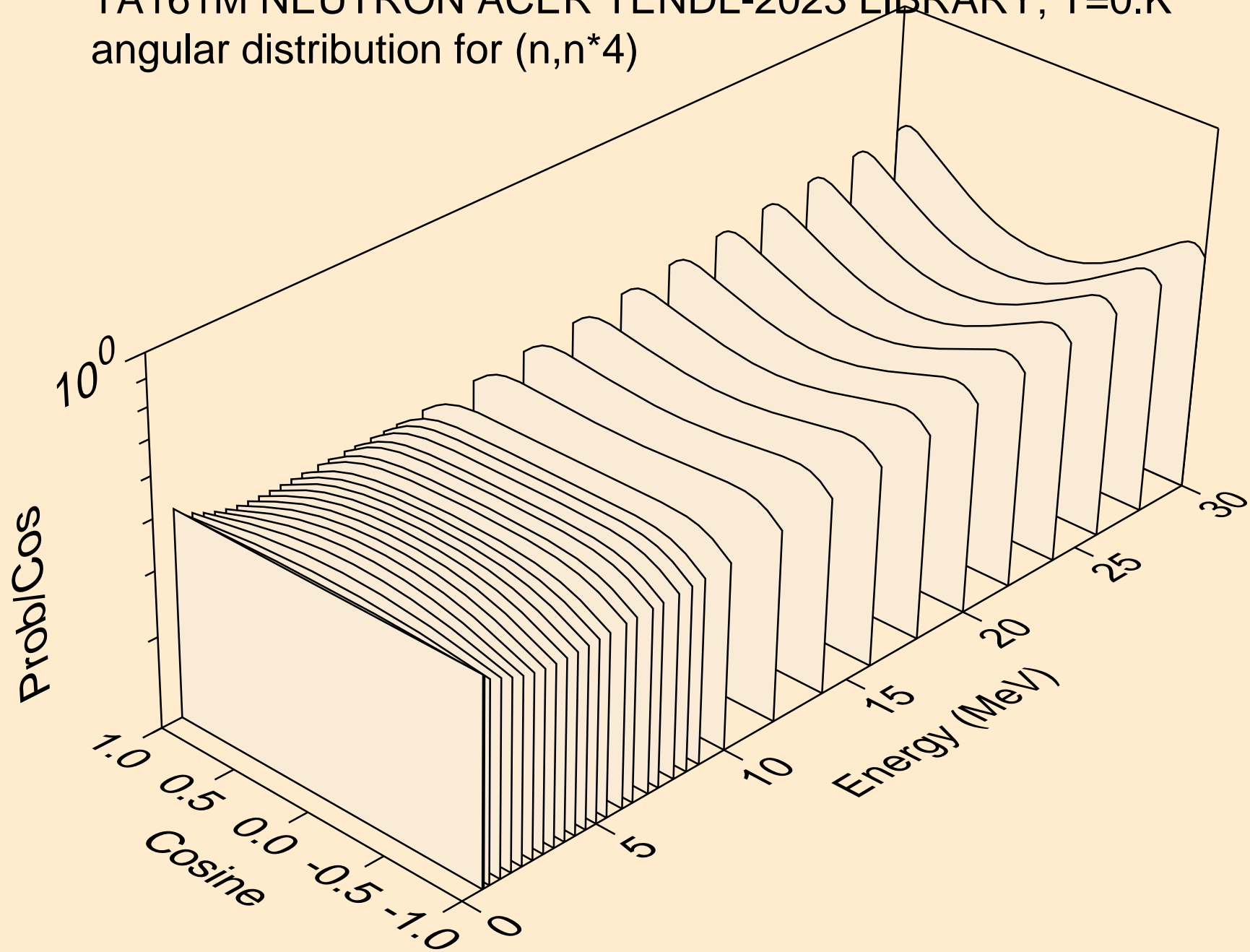
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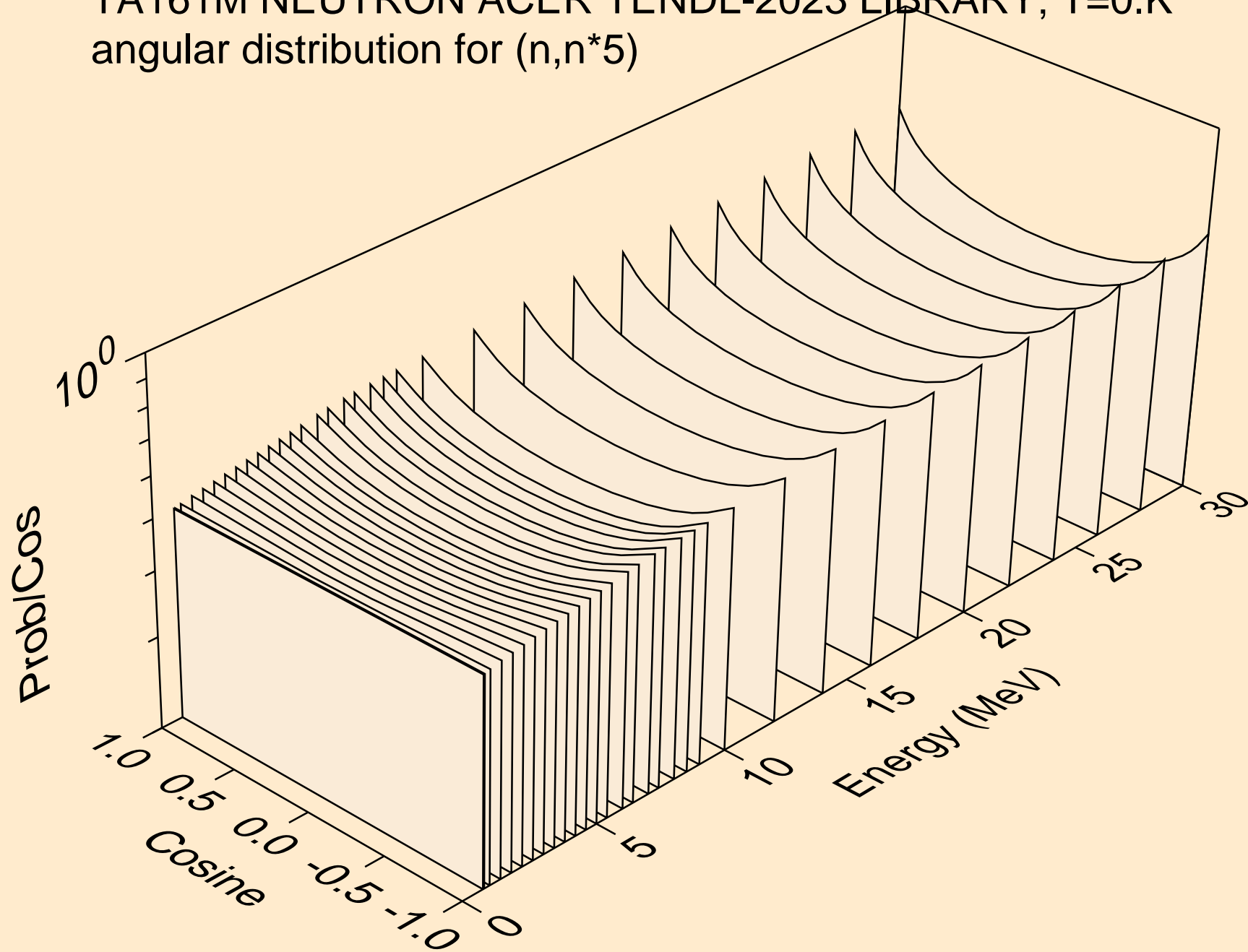
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angular distribution for (n,n\*3)



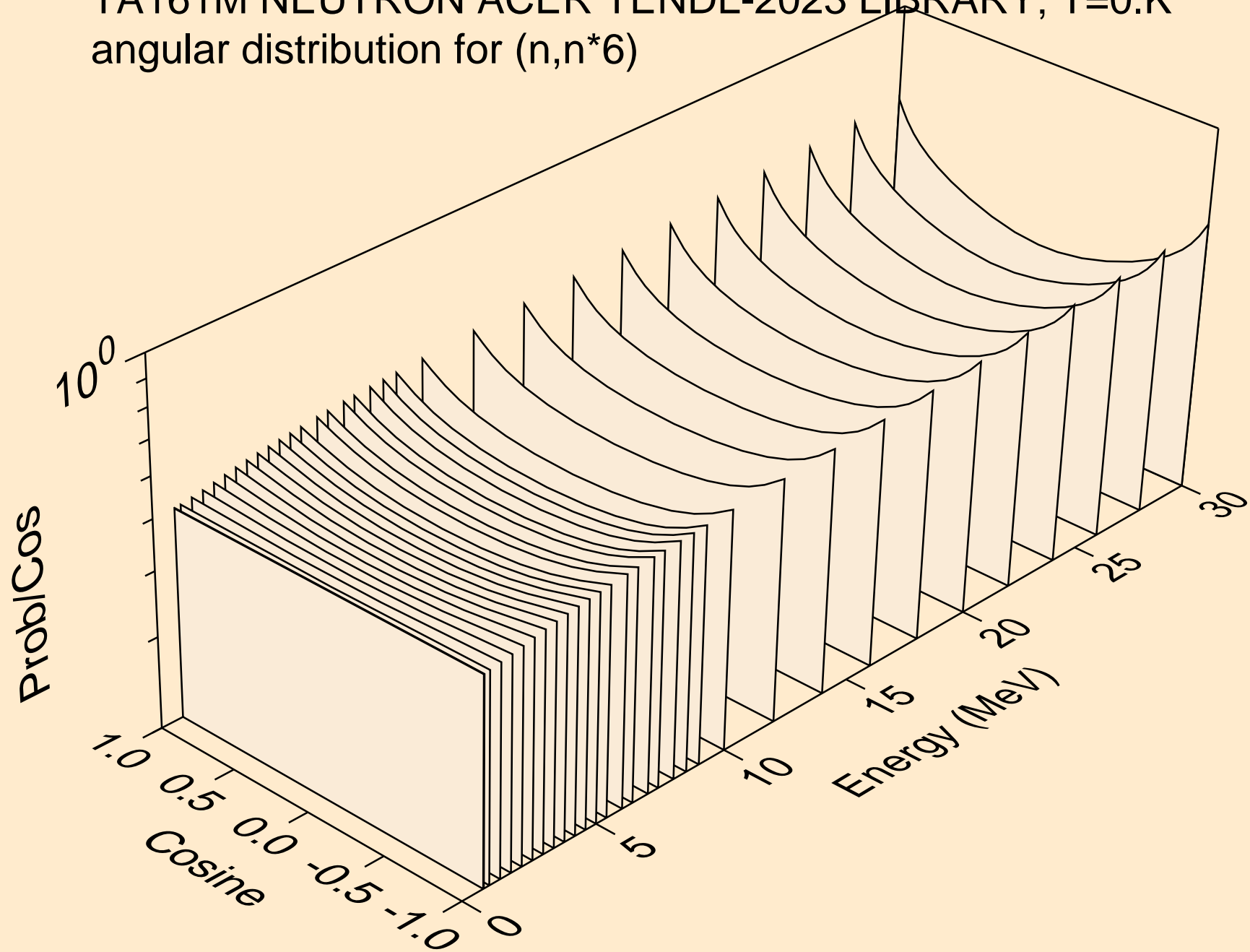
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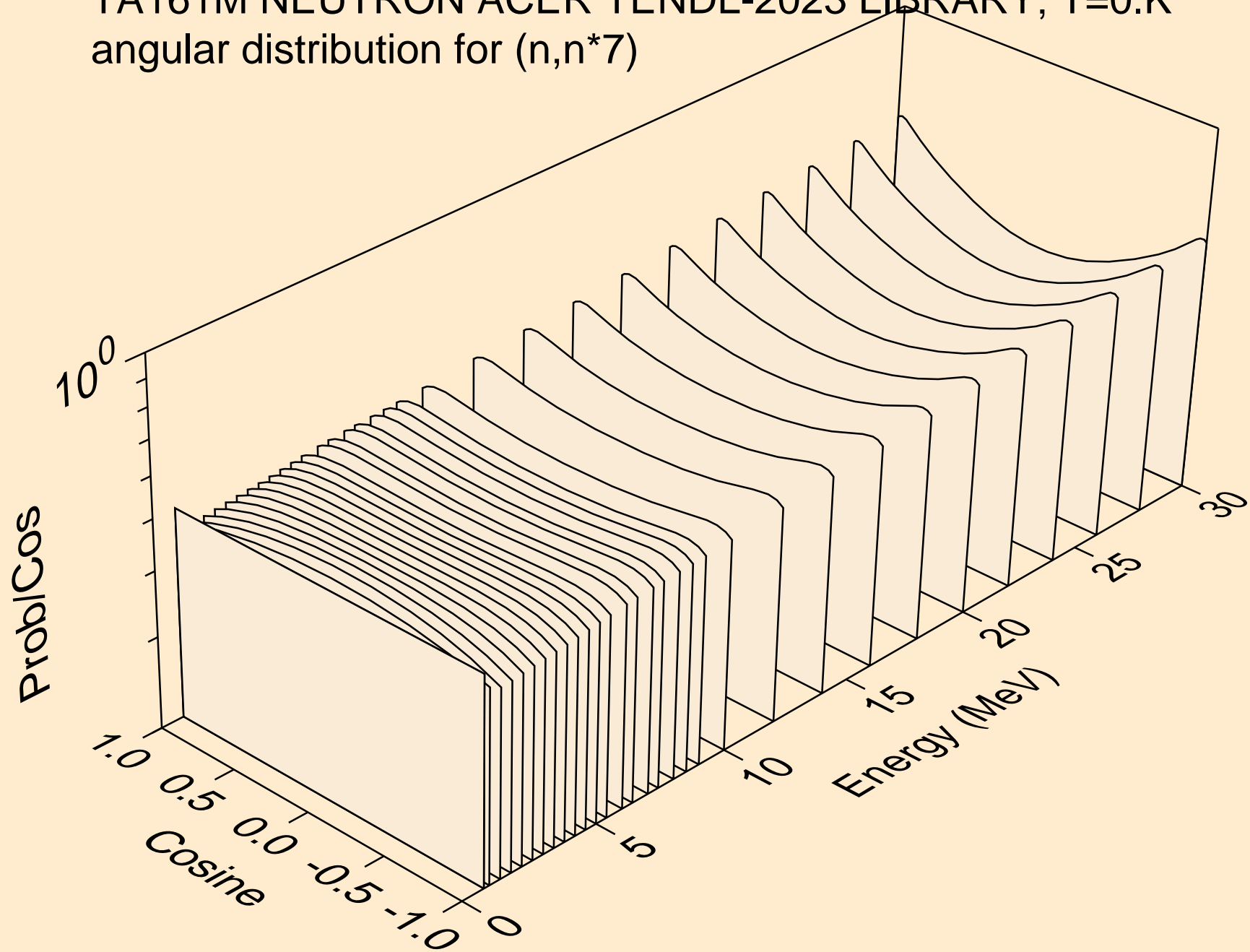
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angular distribution for (n,n\*5)



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angular distribution for (n,n\*6)

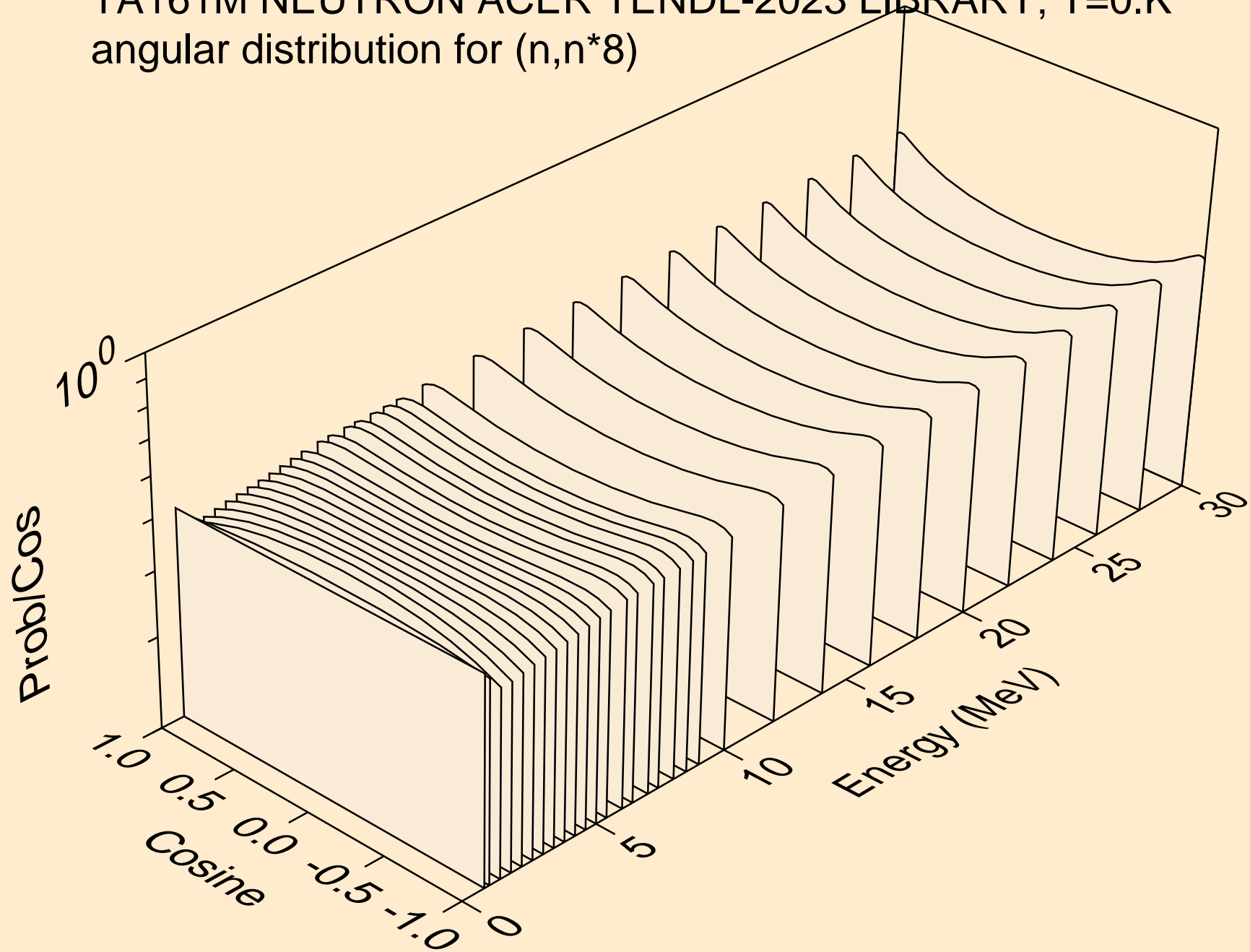


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angular distribution for (n,n\*7)

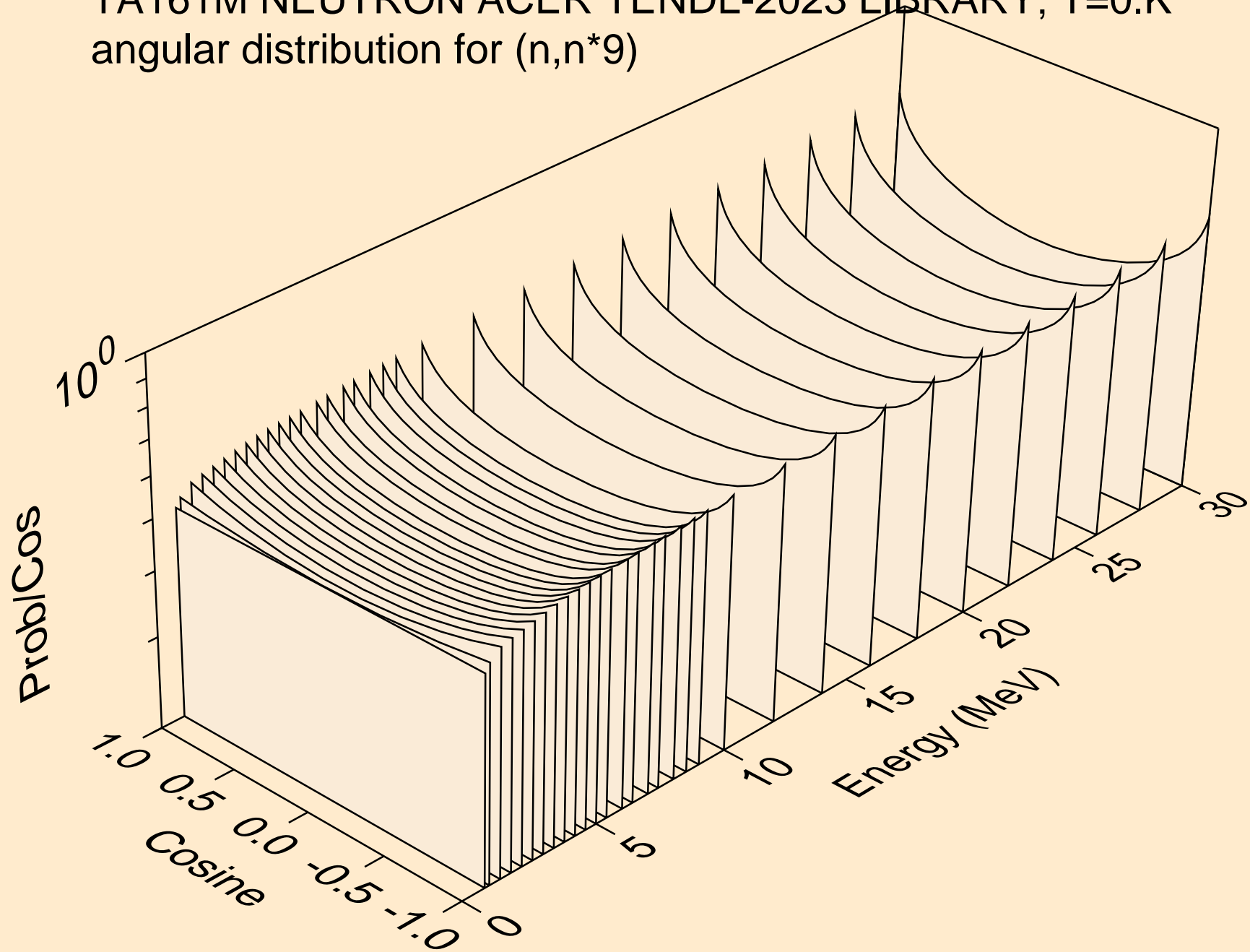




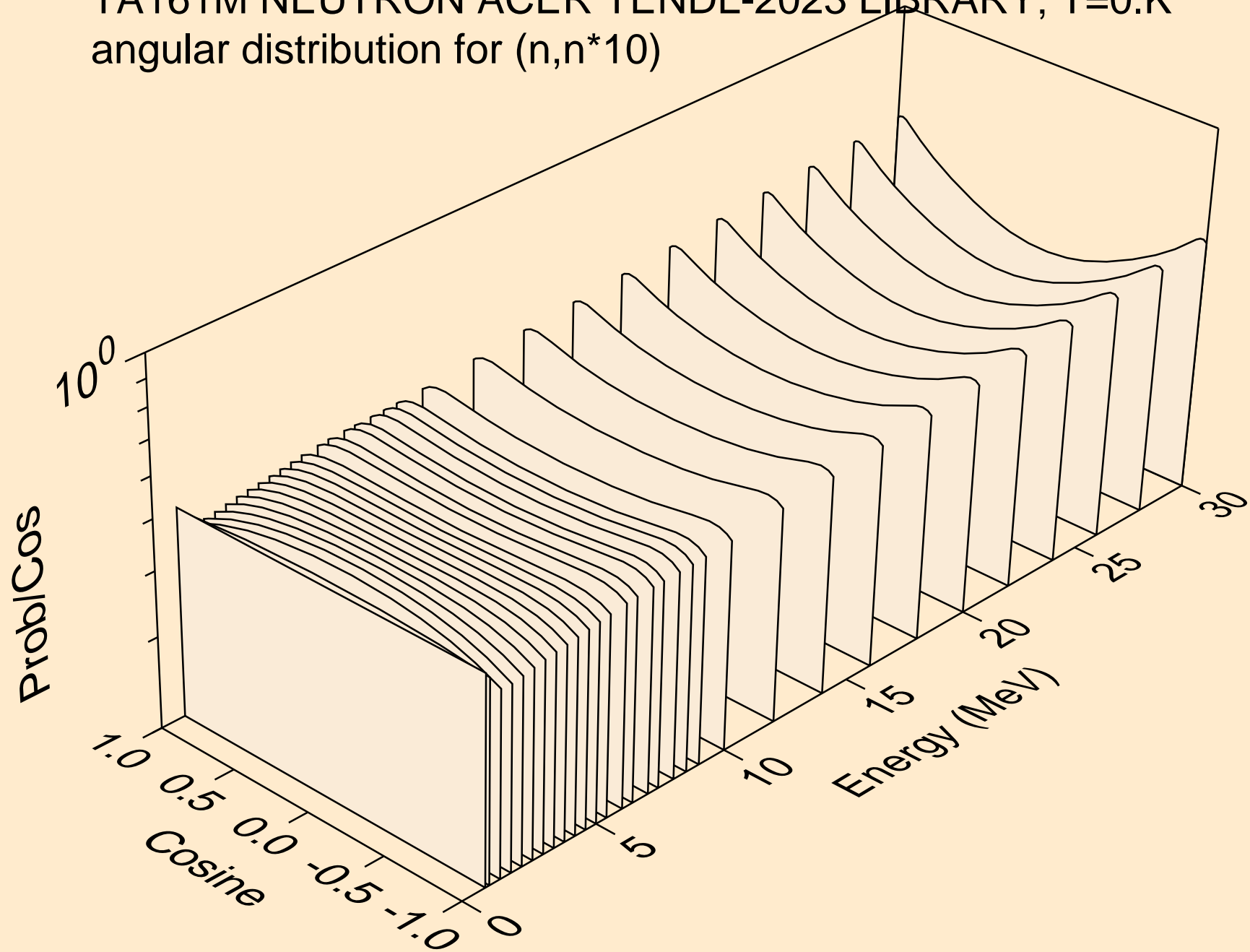
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angular distribution for (n,n\*8)



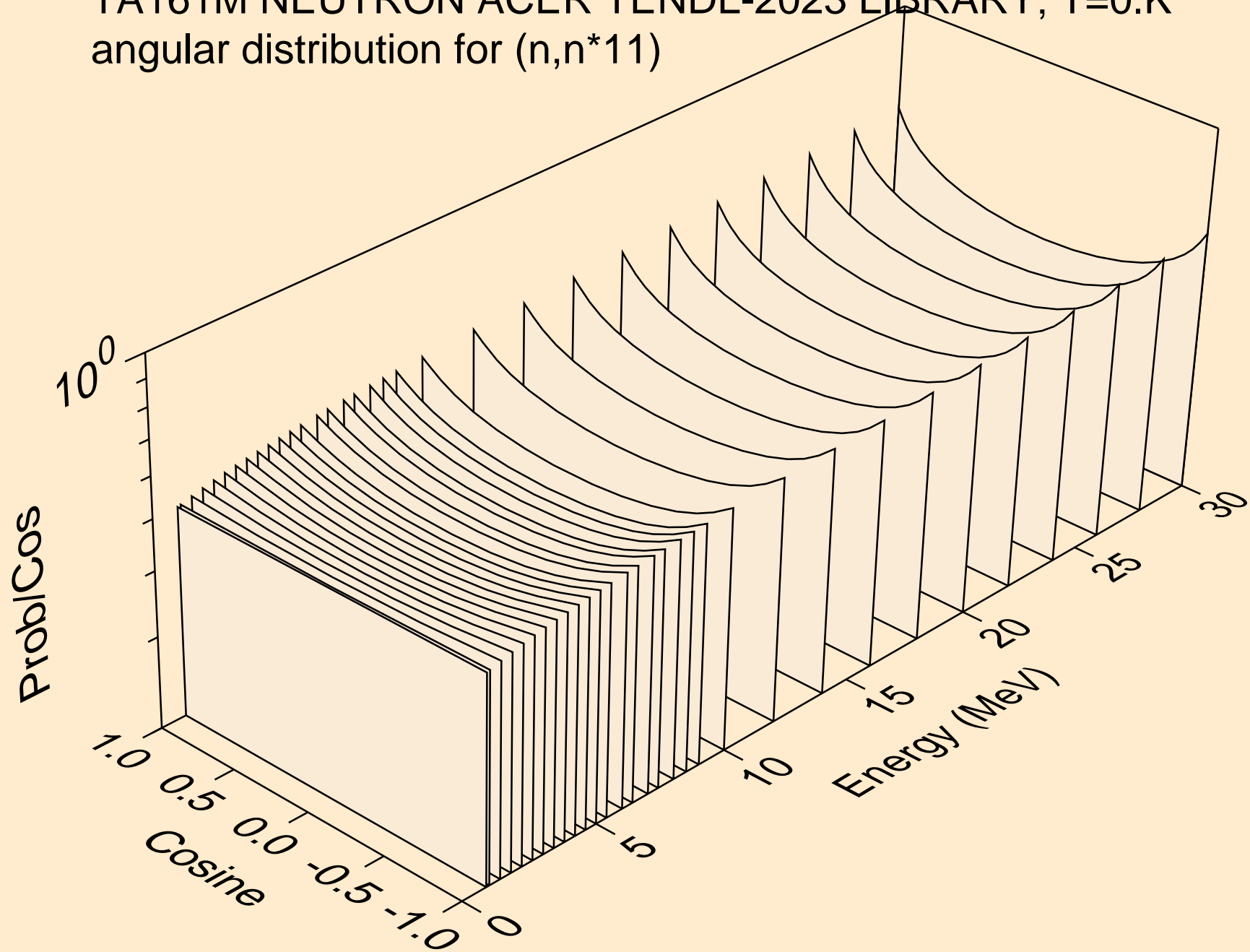
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angular distribution for (n,n\*9)



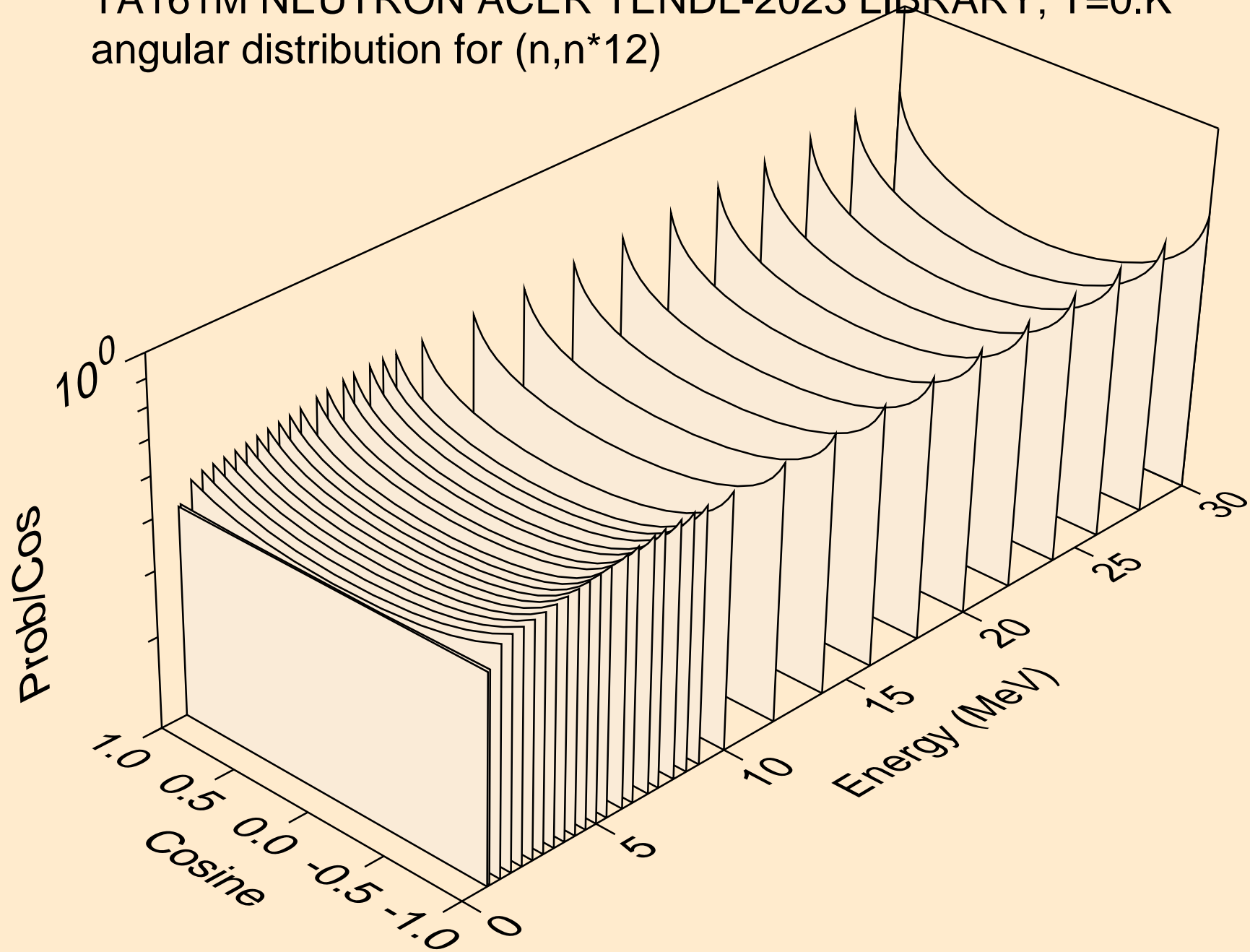
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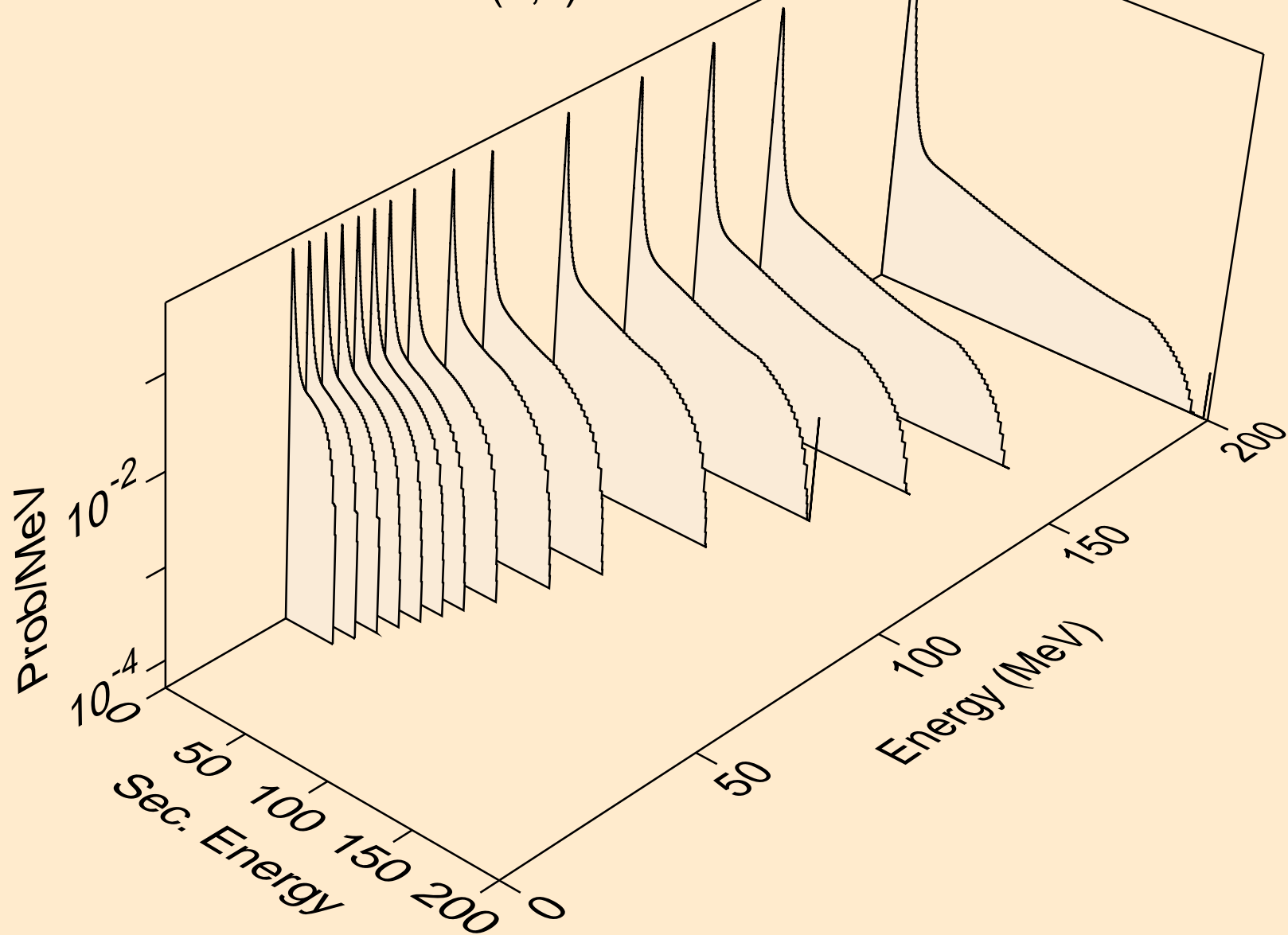
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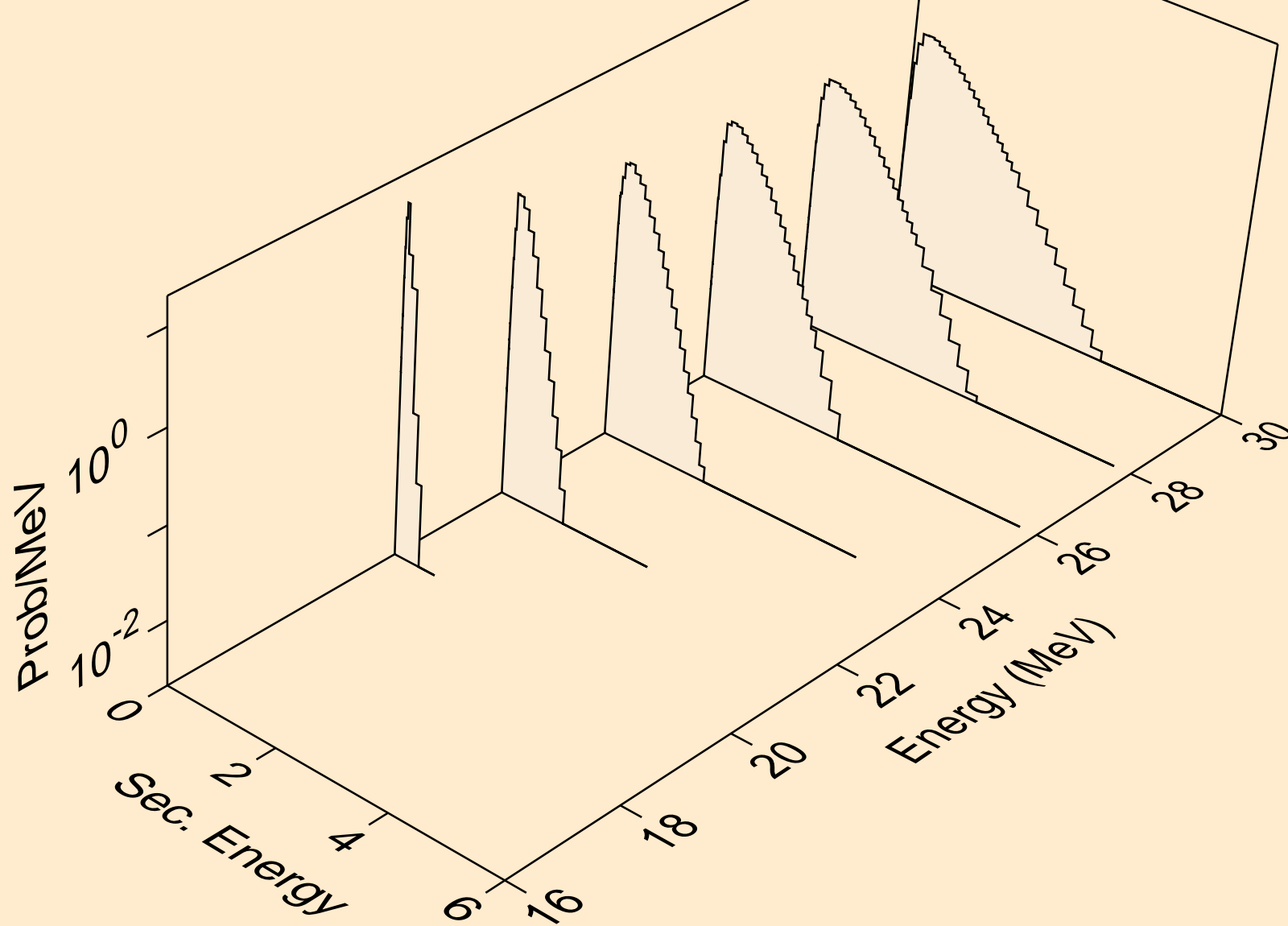
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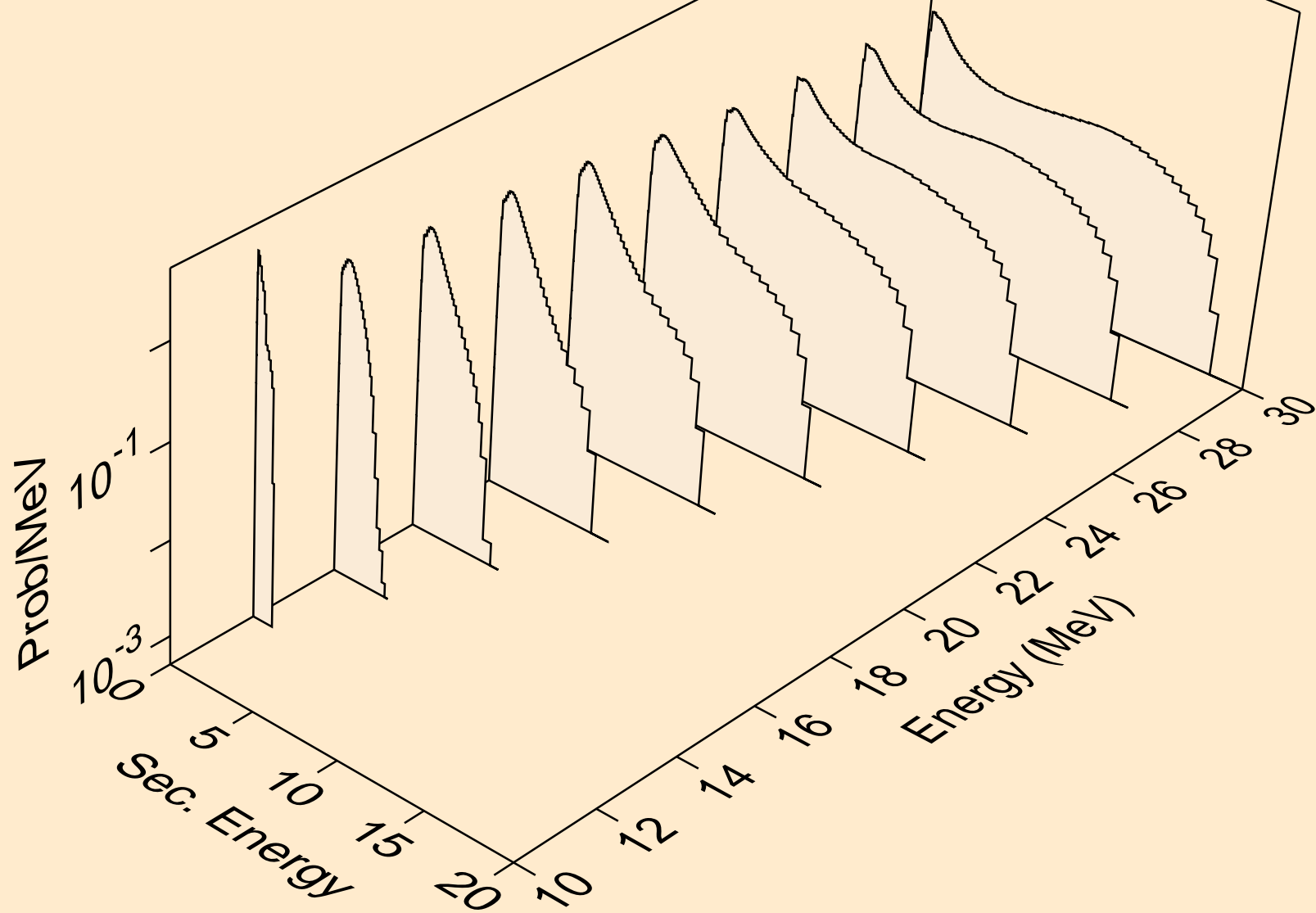
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)

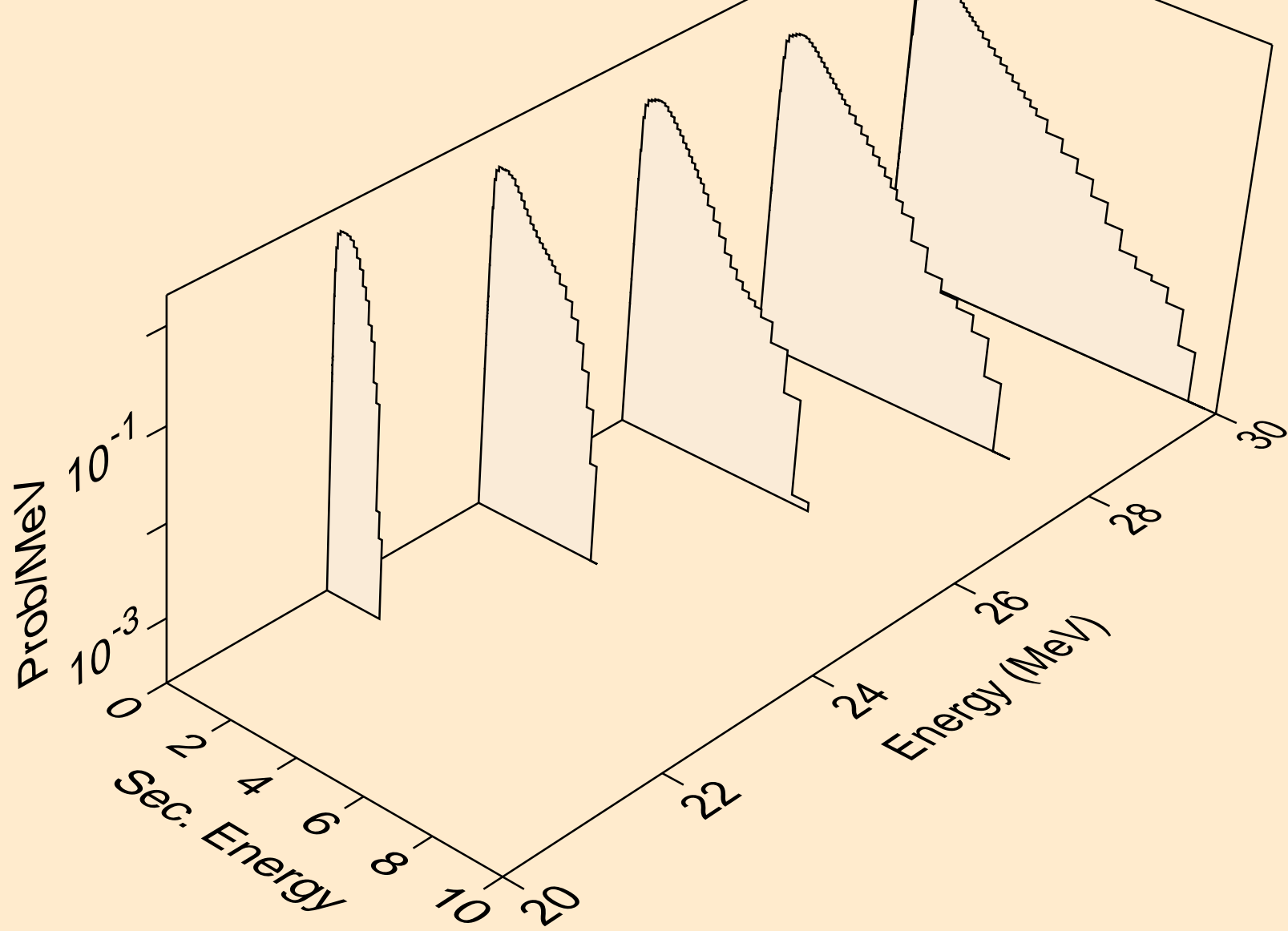


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Neutron emission for (n,2n)

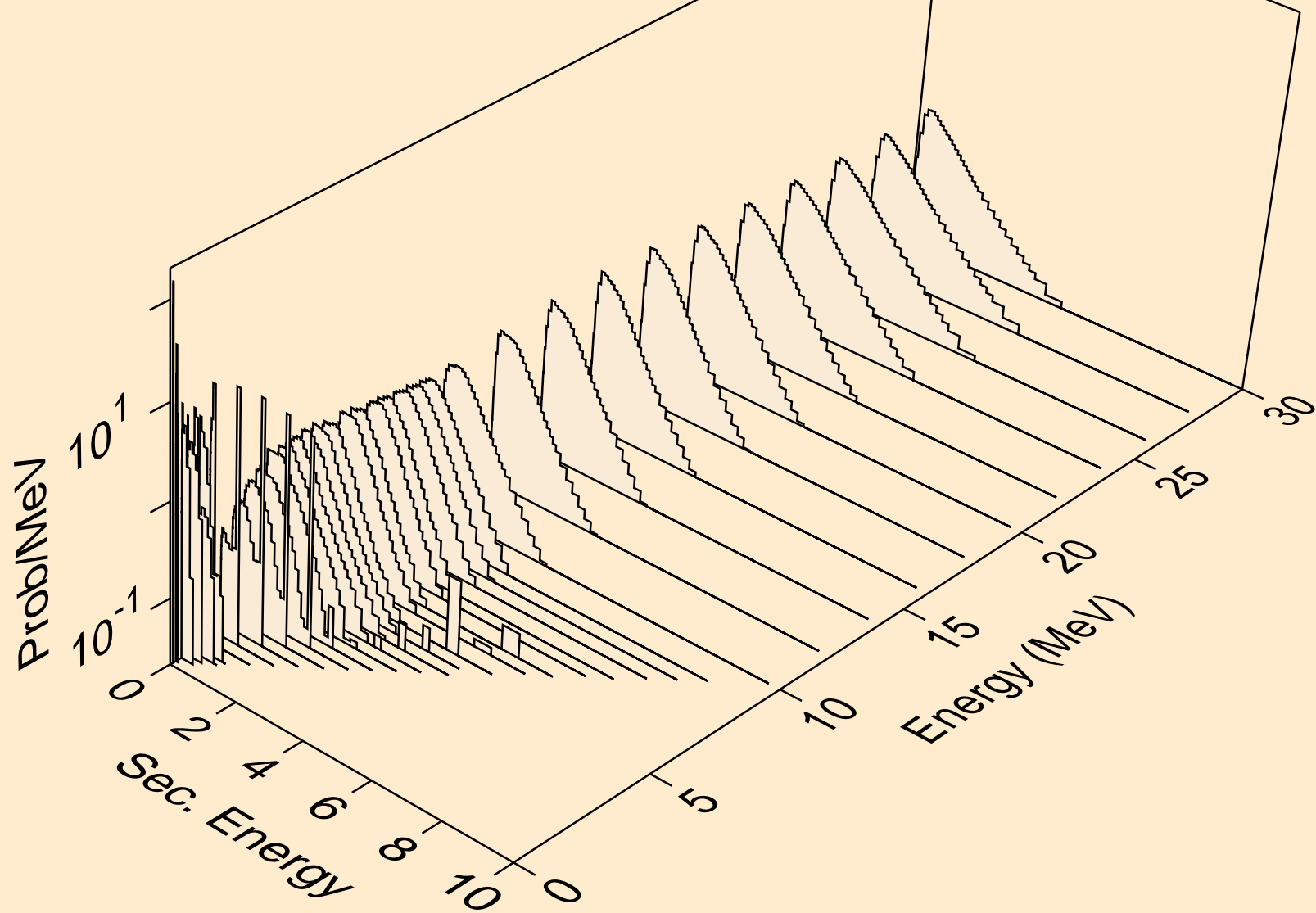




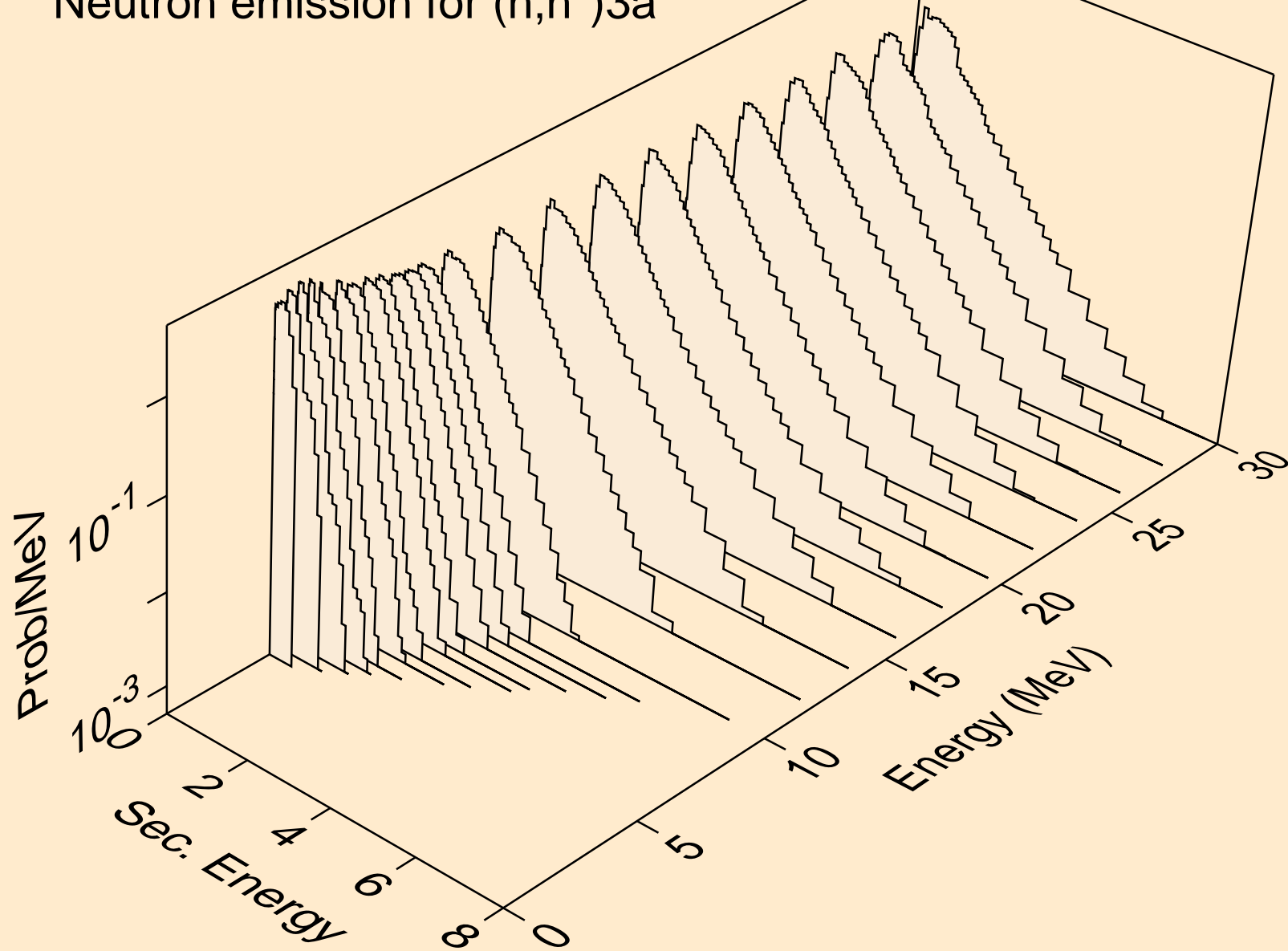
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Neutron emission for (n,3n)



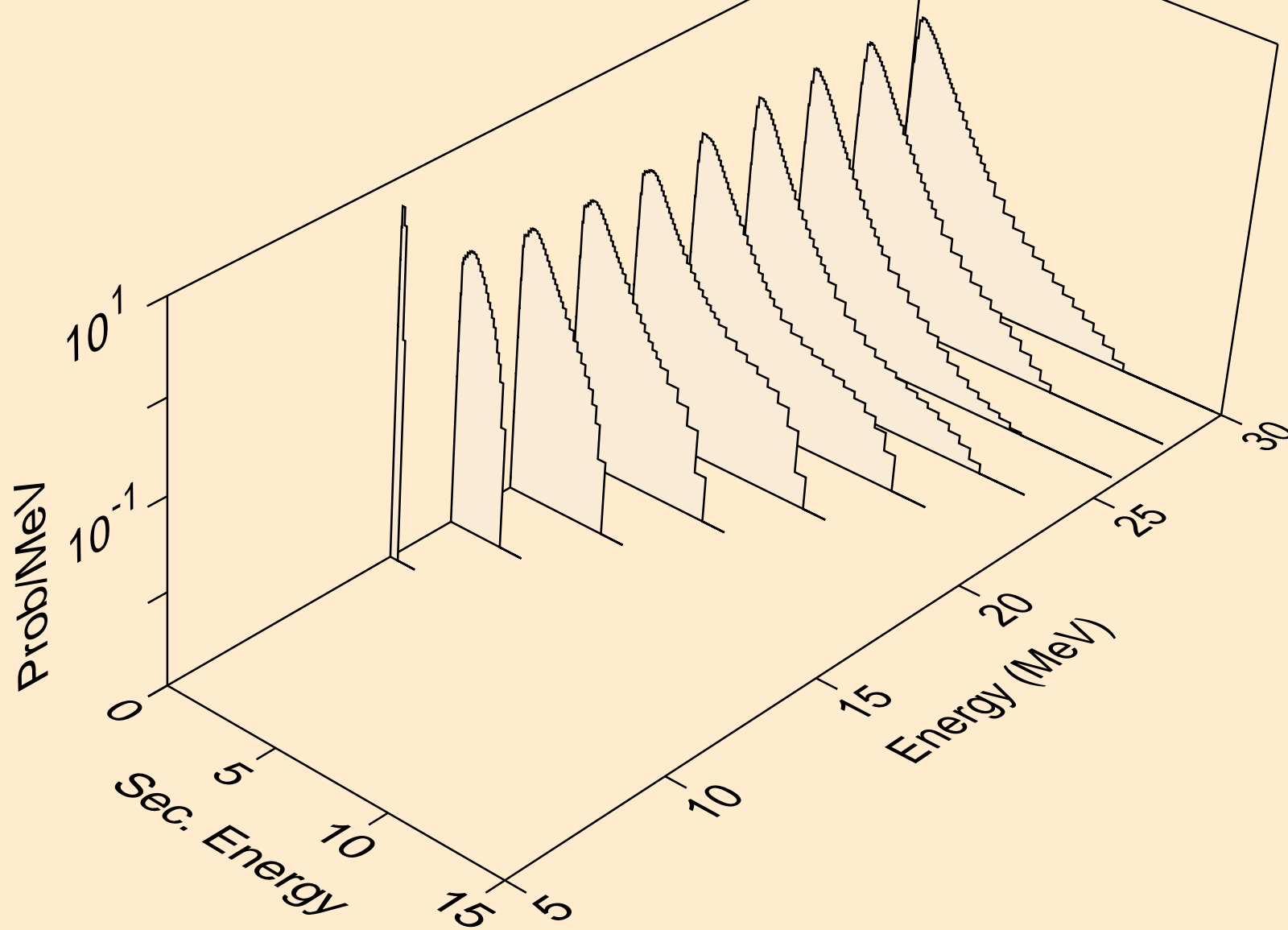
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Neutron emission for (n,n\*)a



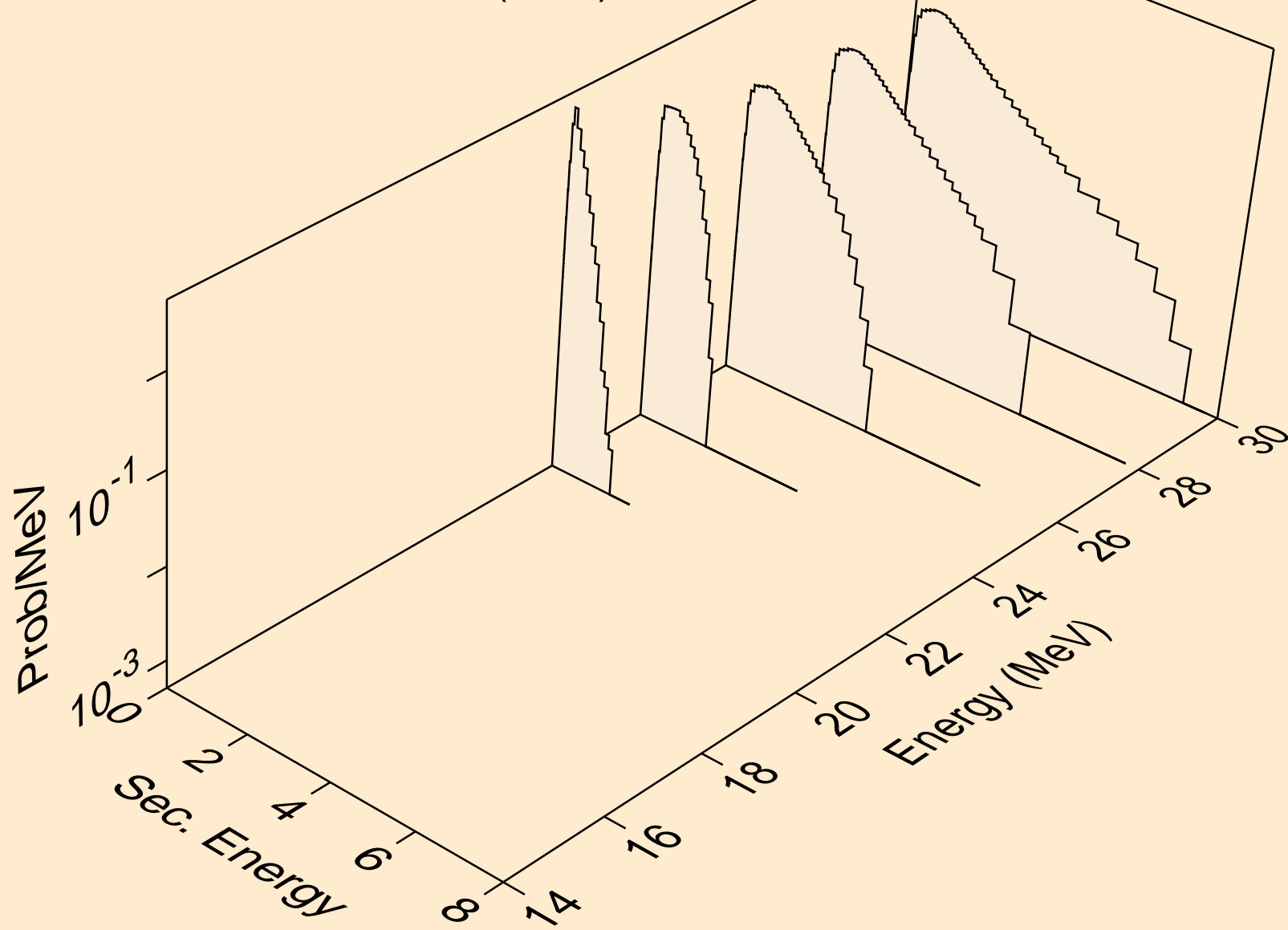
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Neutron emission for (n,n\*)3a



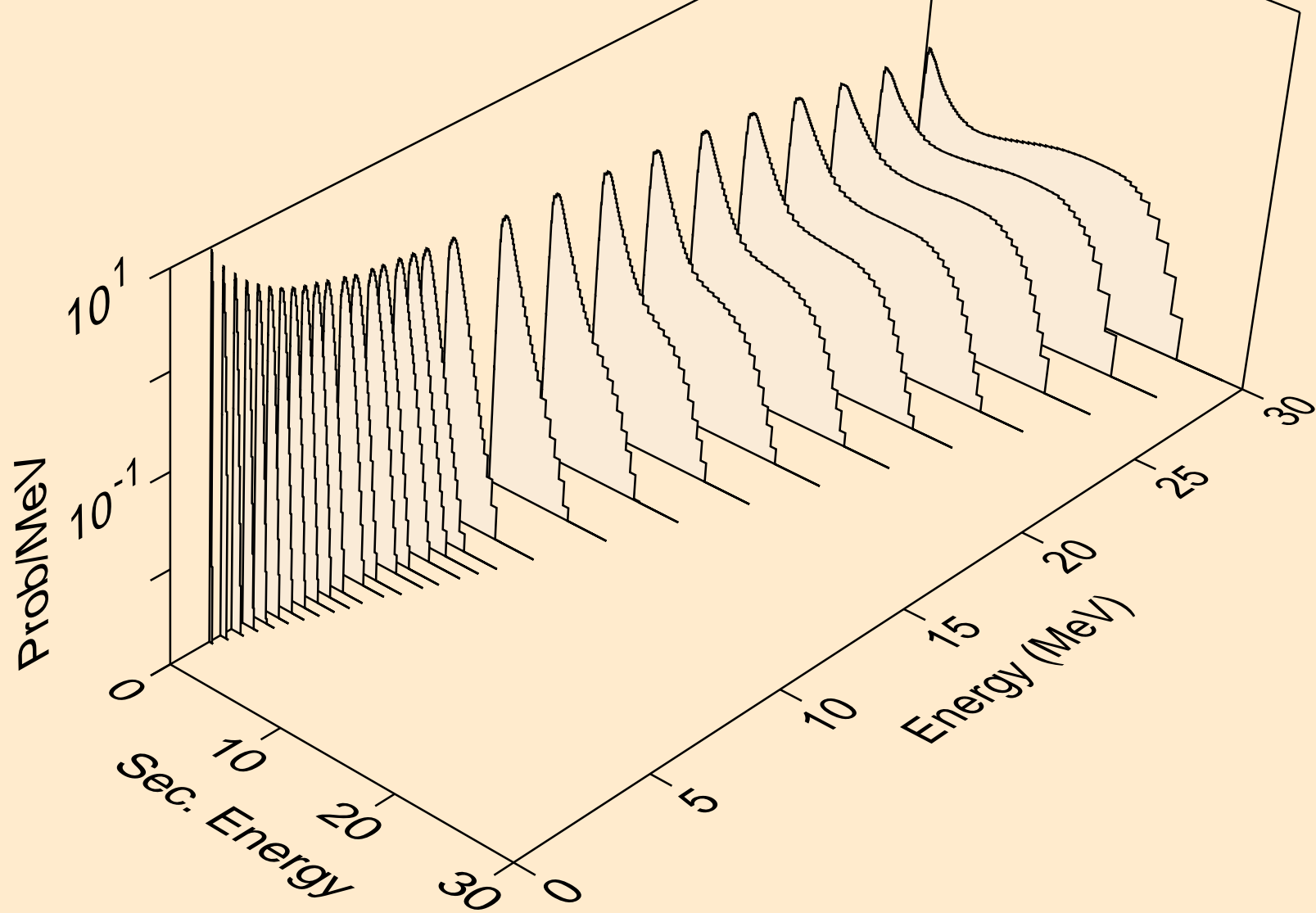
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Neutron emission for (n,2n)a



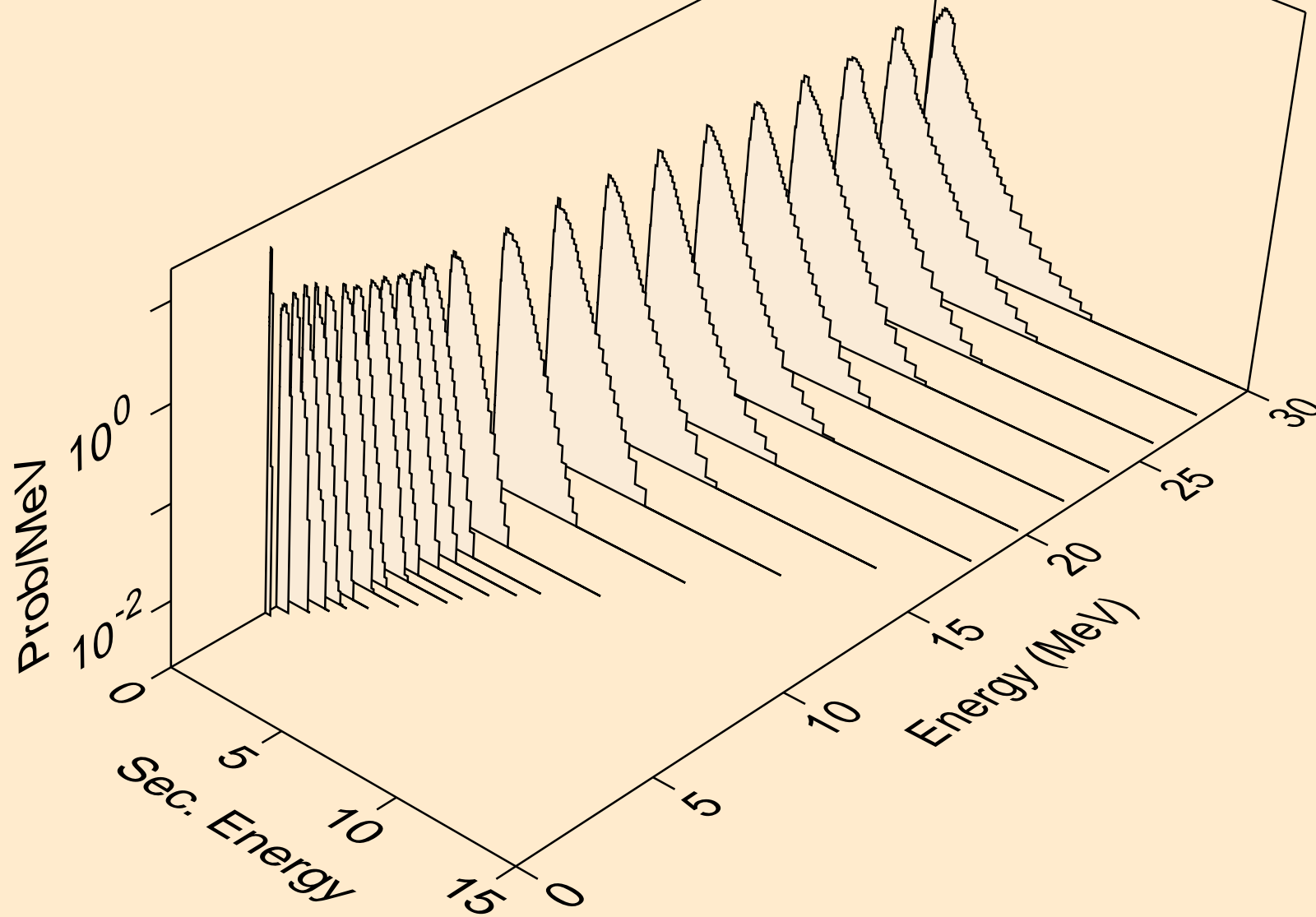
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Neutron emission for (n,3n)a



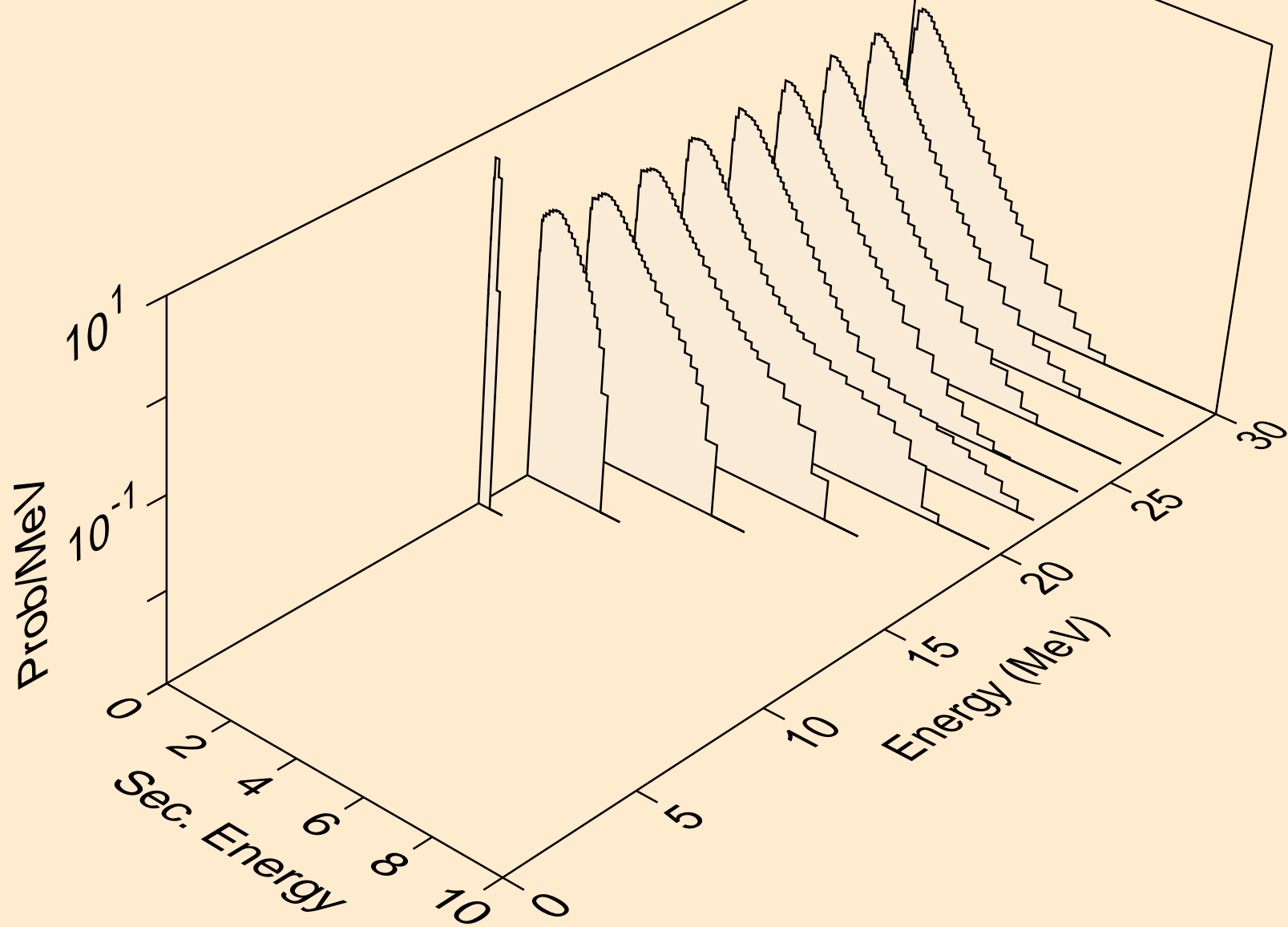
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a

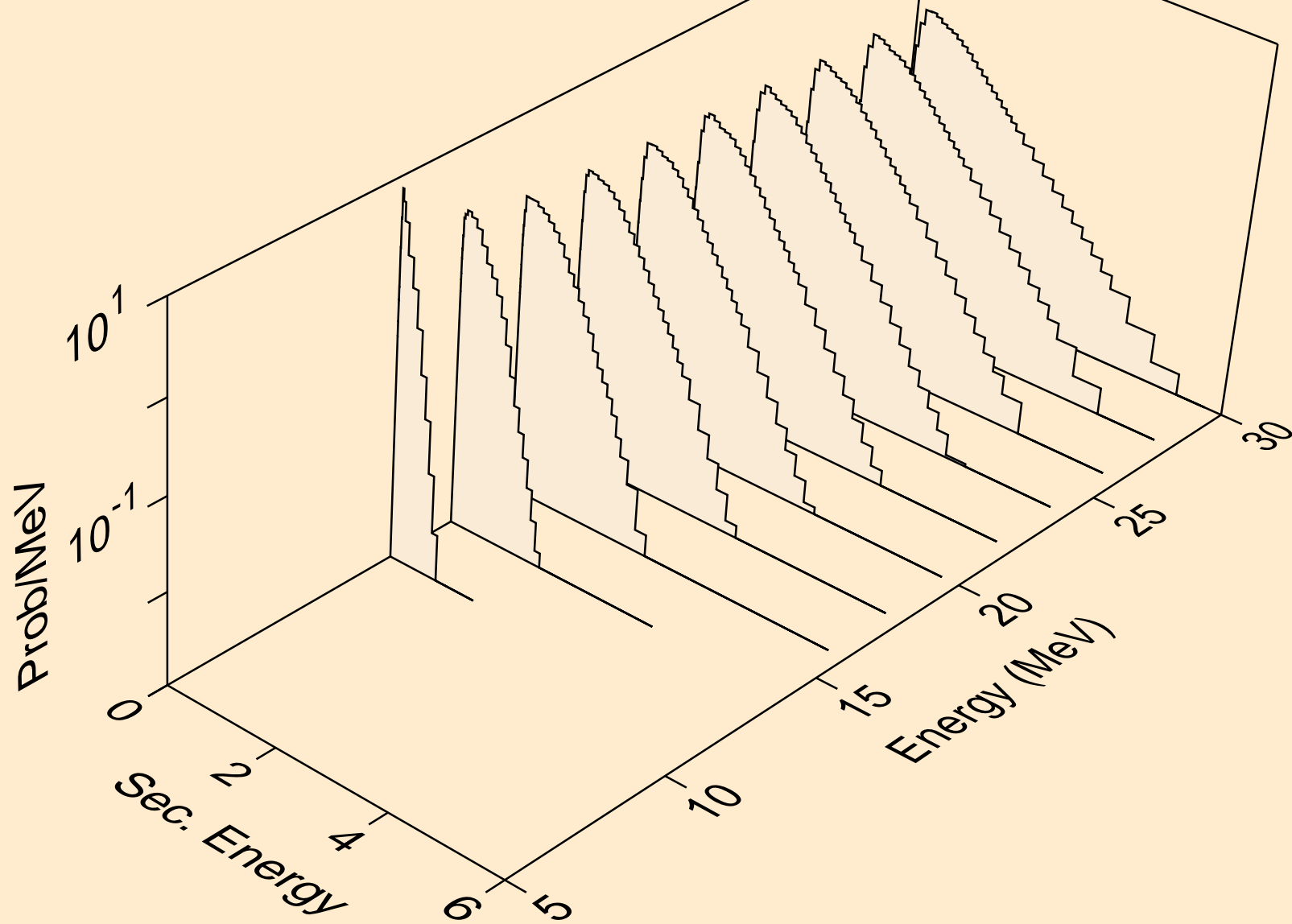


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Neutron emission for (n,2n)2a

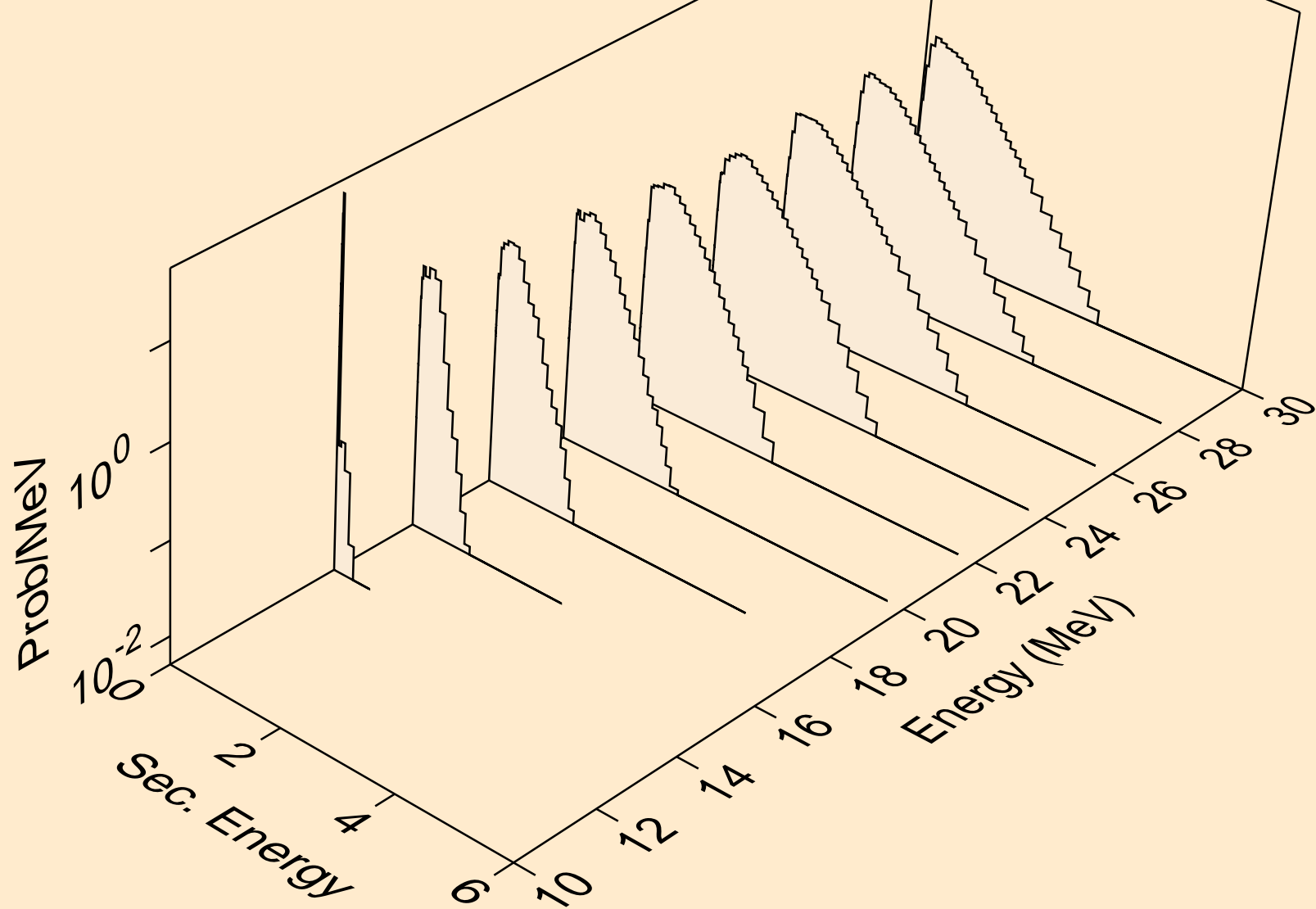




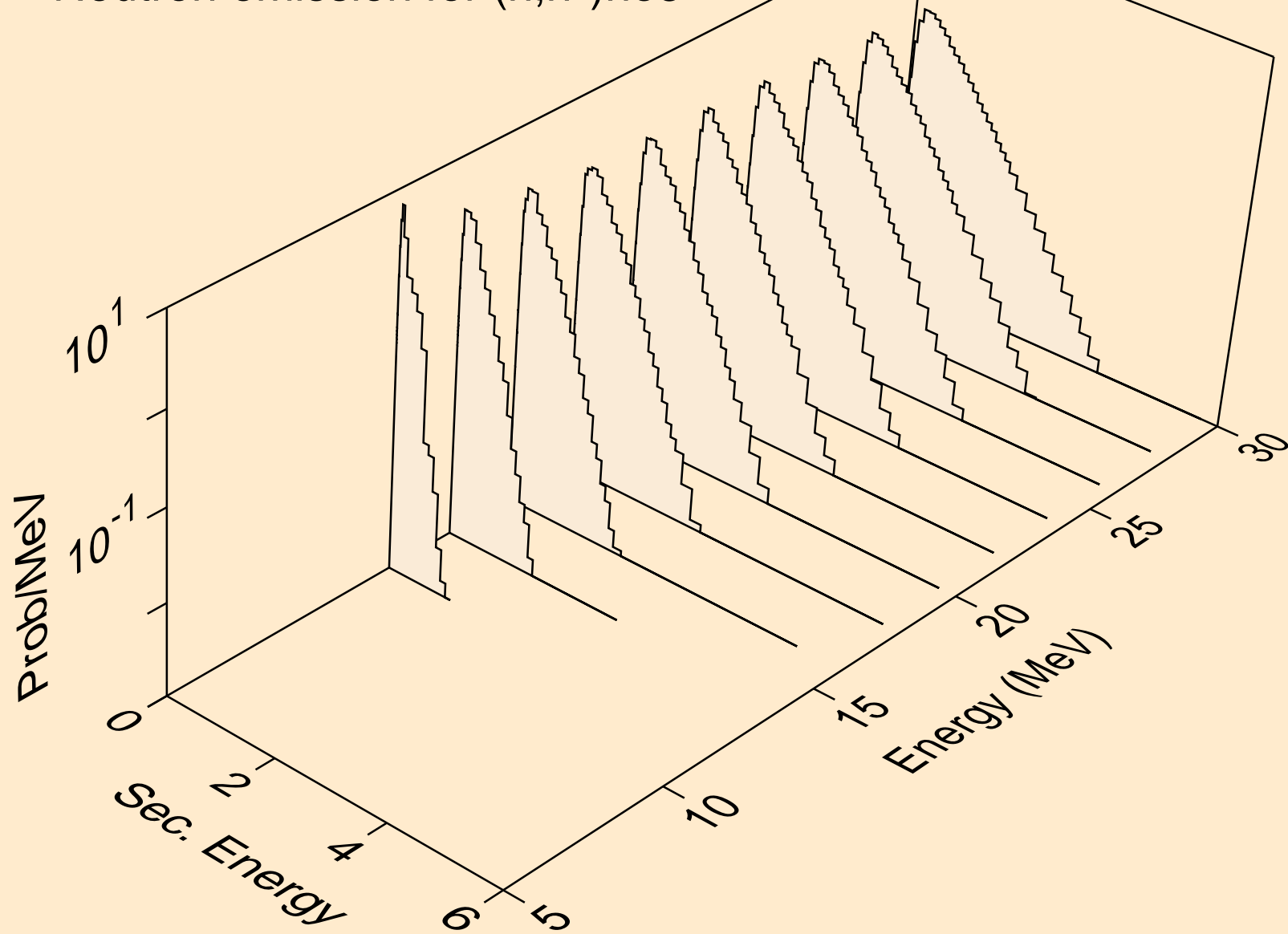
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Neutron emission for (n,n\*)d



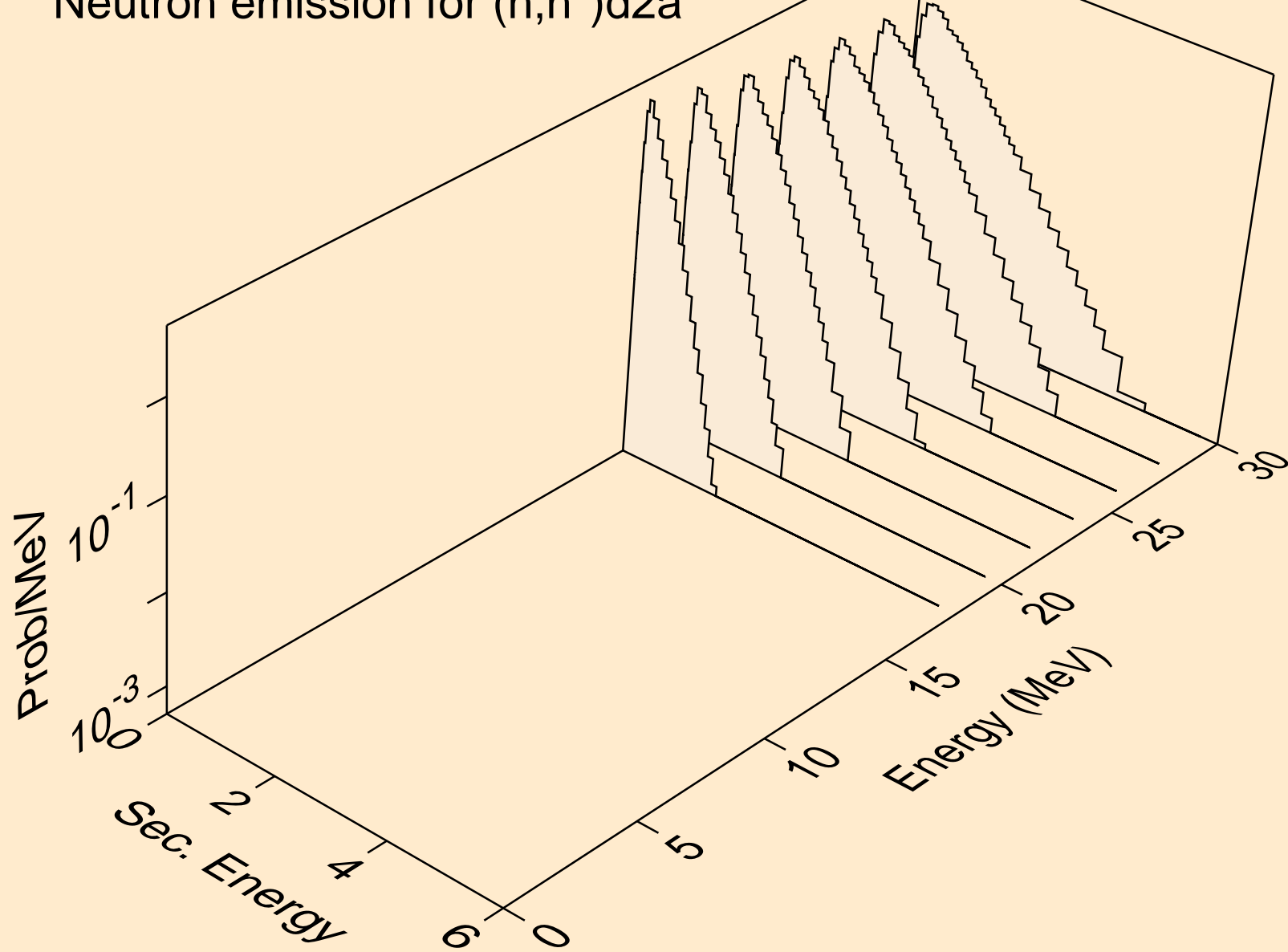
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Neutron emission for (n,n\*)t



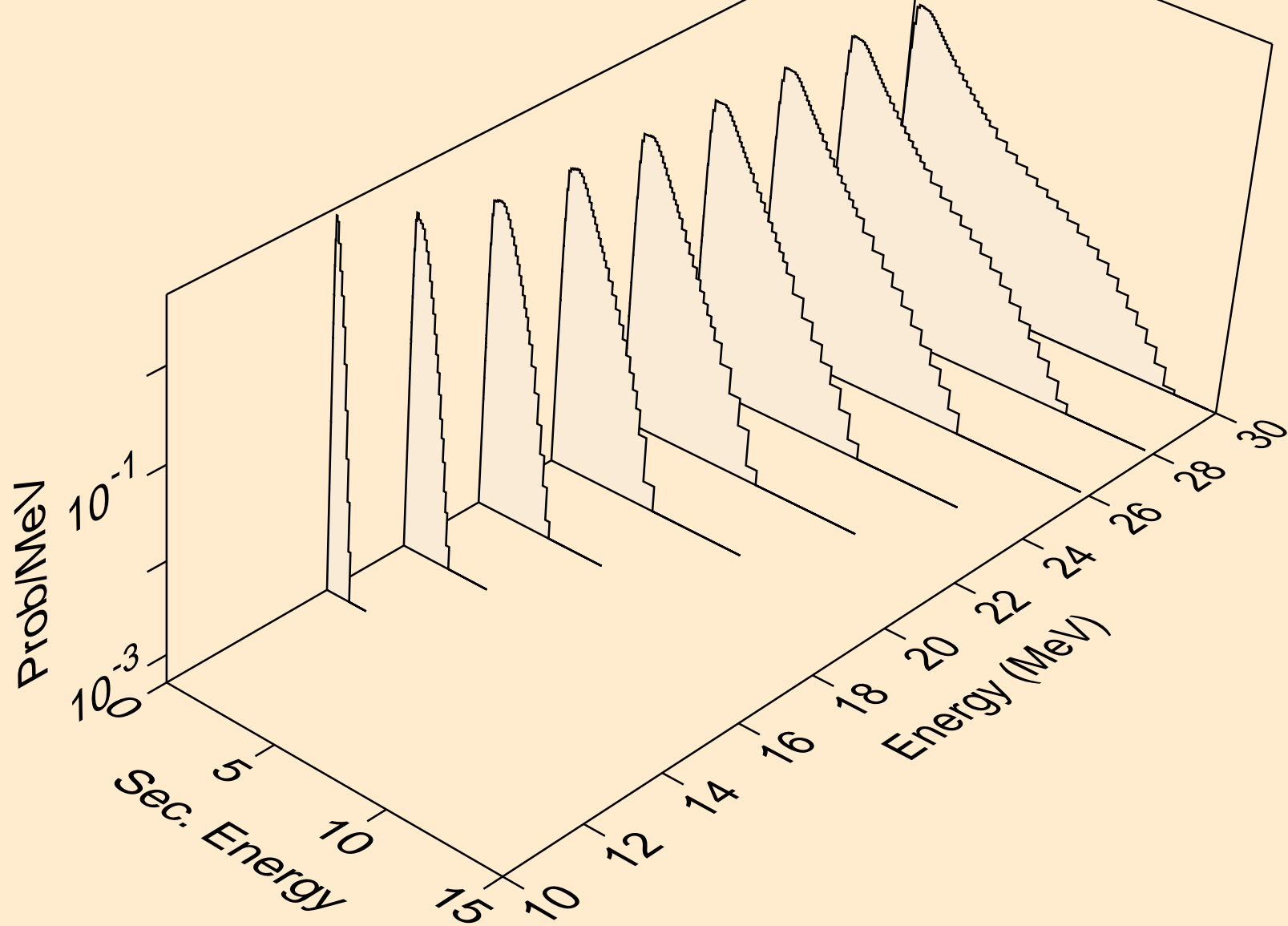
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Neutron emission for (n,n\*)he3



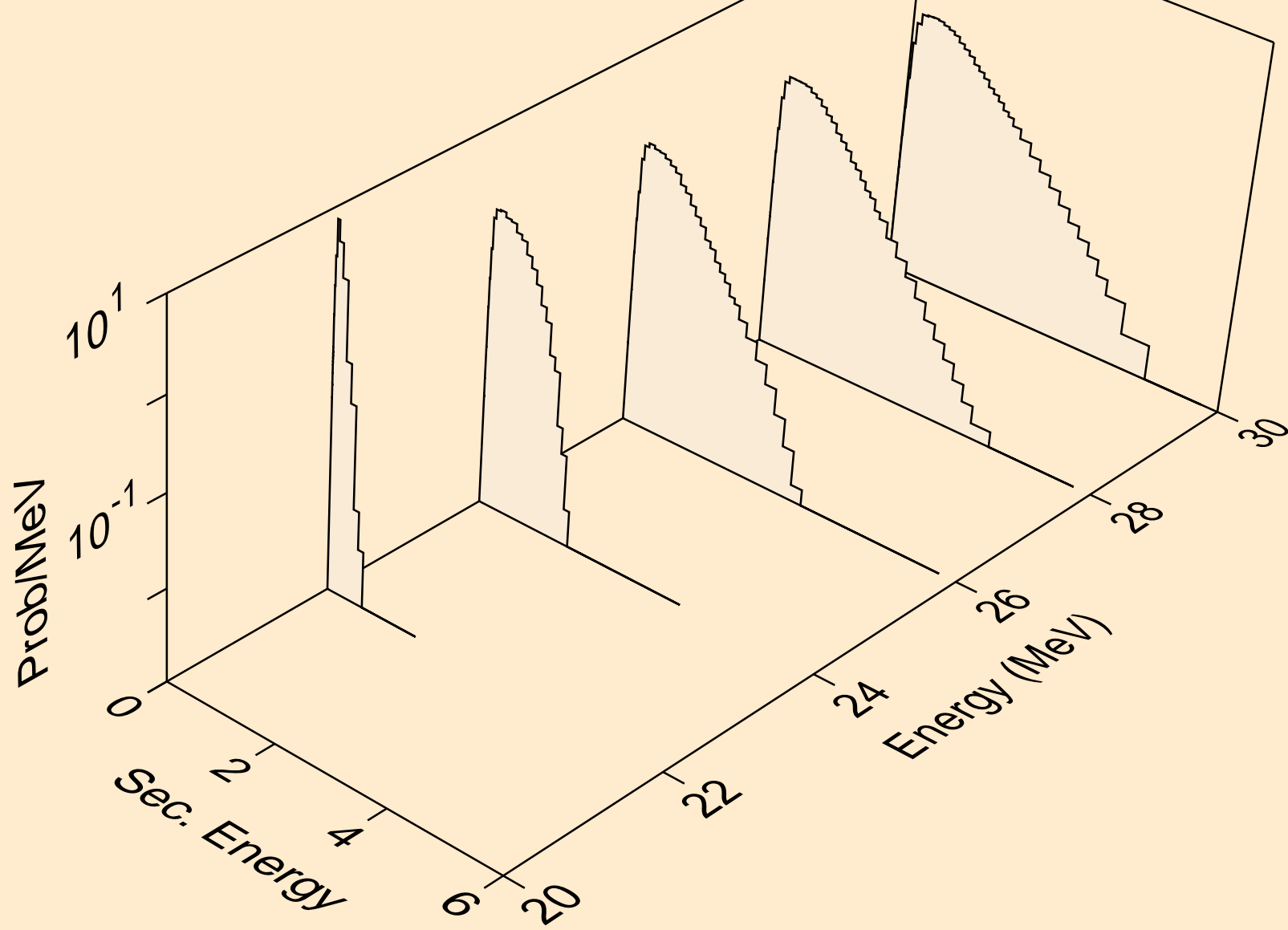
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Neutron emission for (n,n\*)d2a



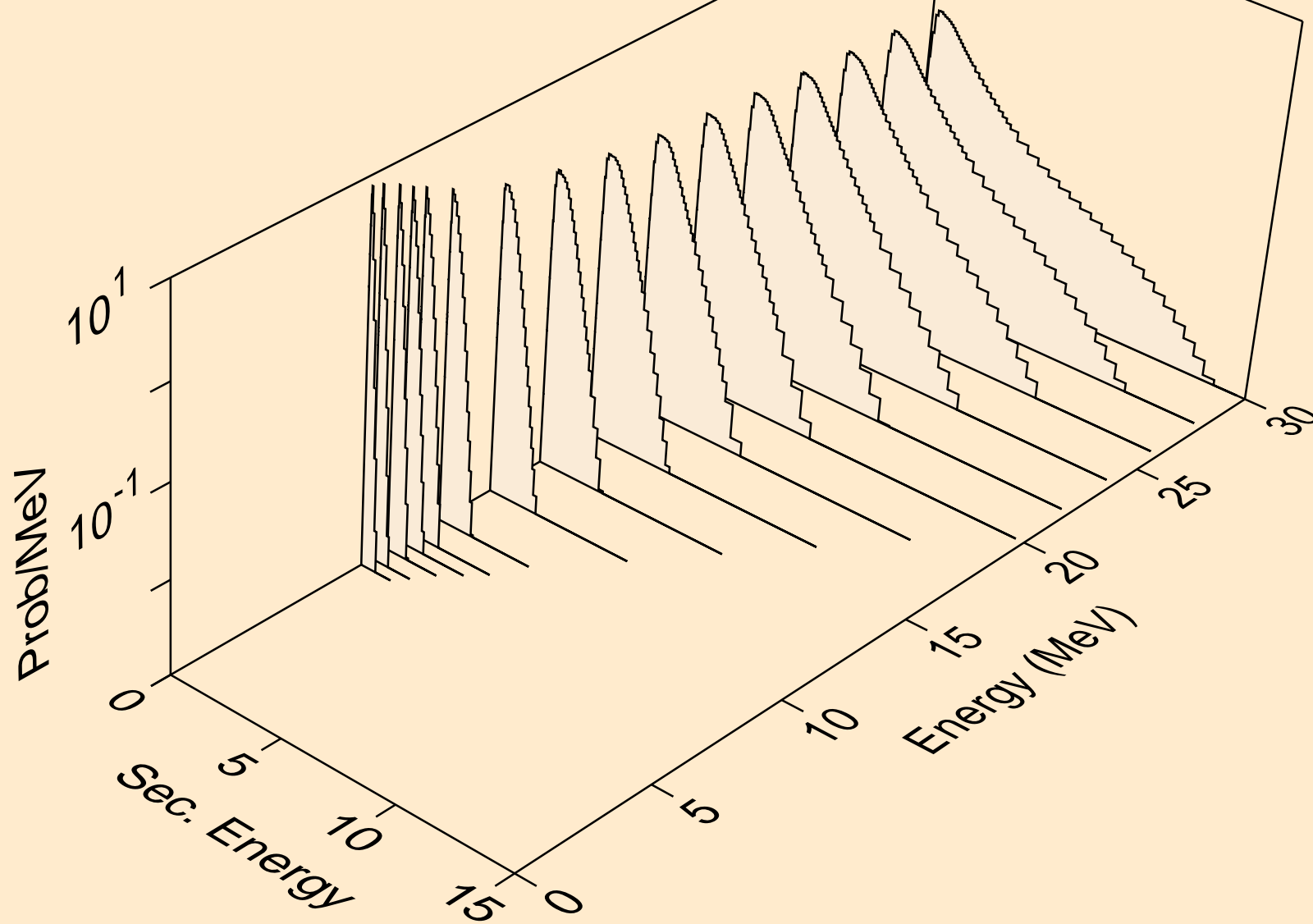
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Neutron emission for (n,2np)



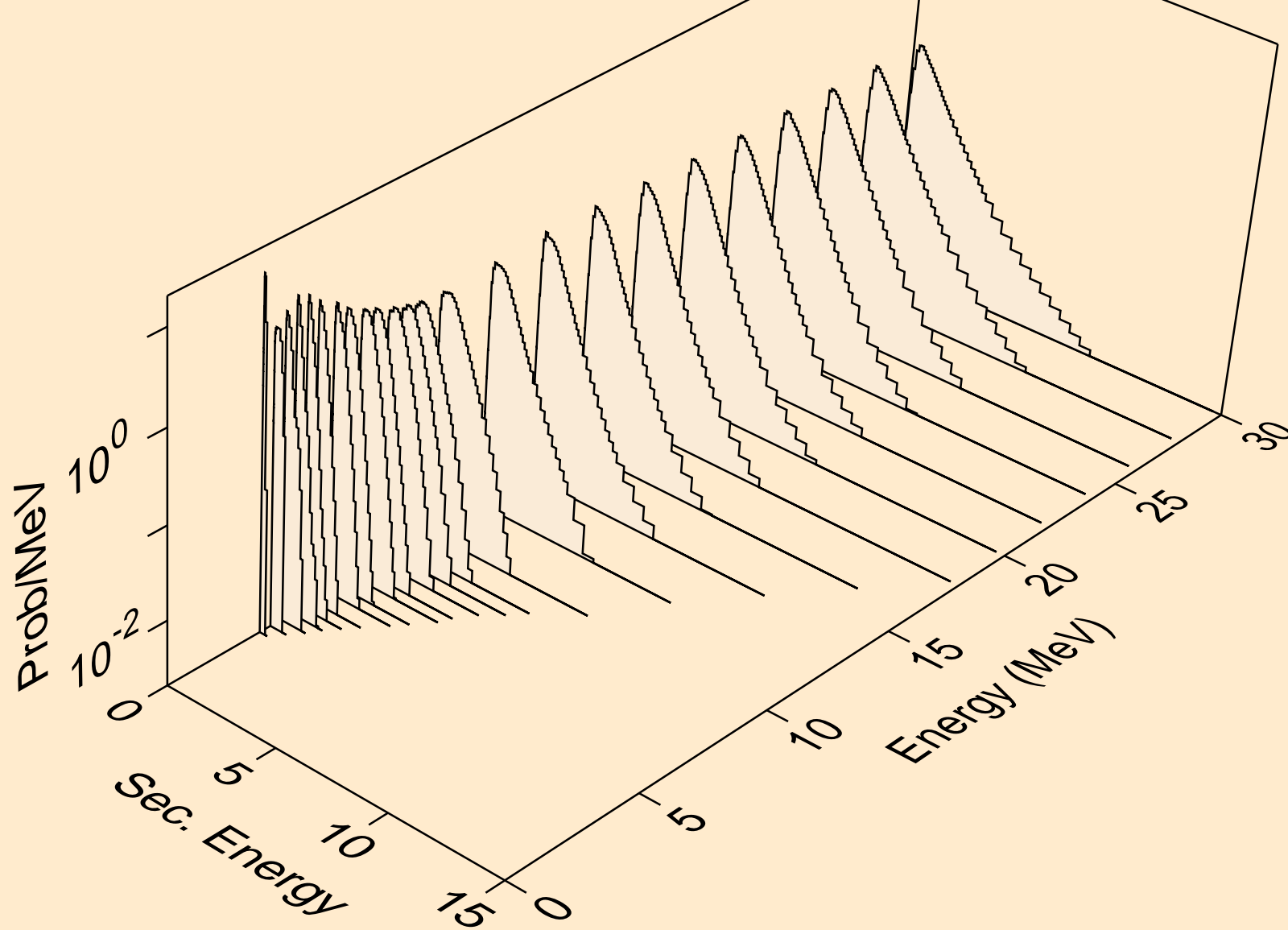
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Neutron emission for (n,3np)



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

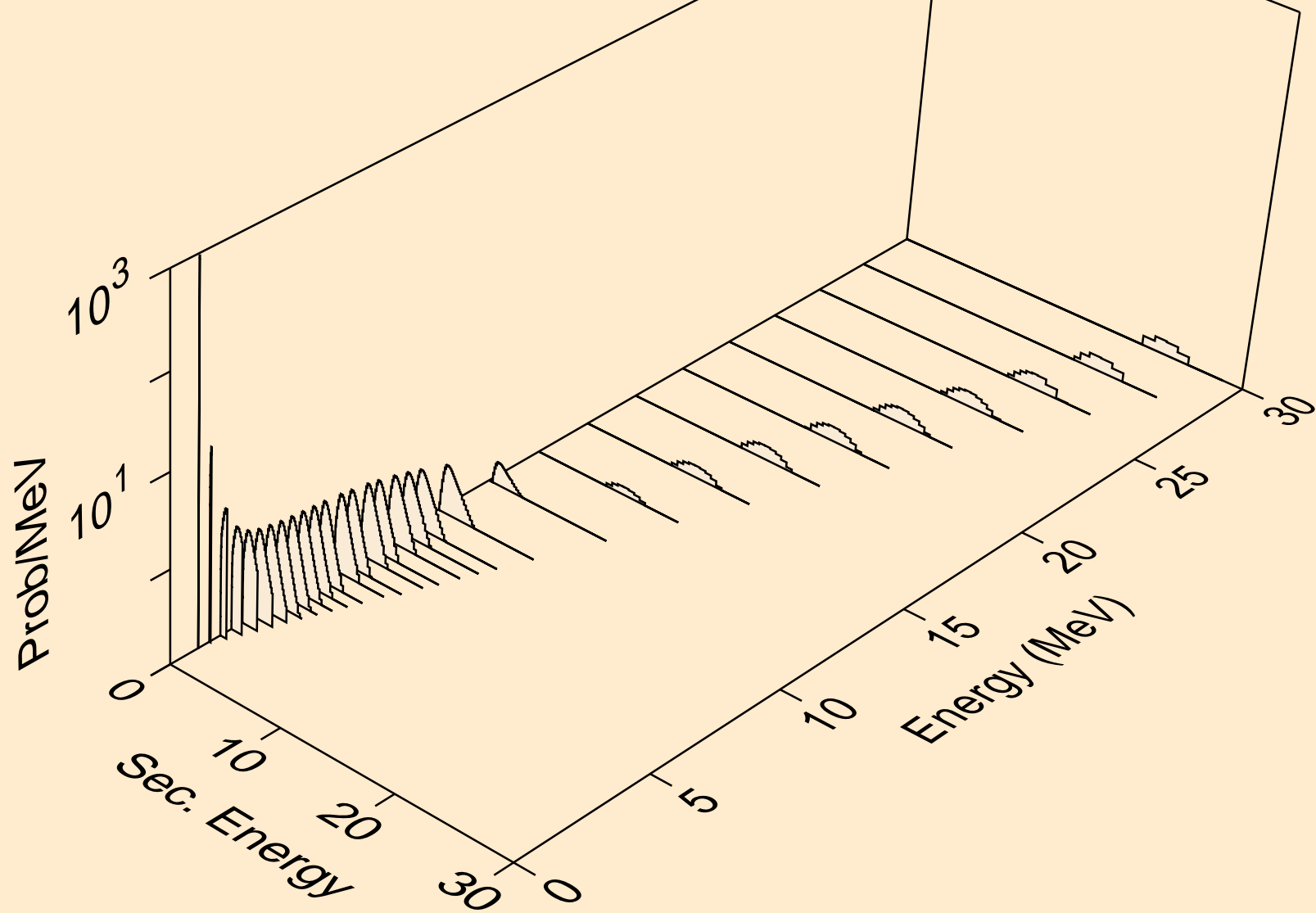


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Neutron emission for (n,npa)

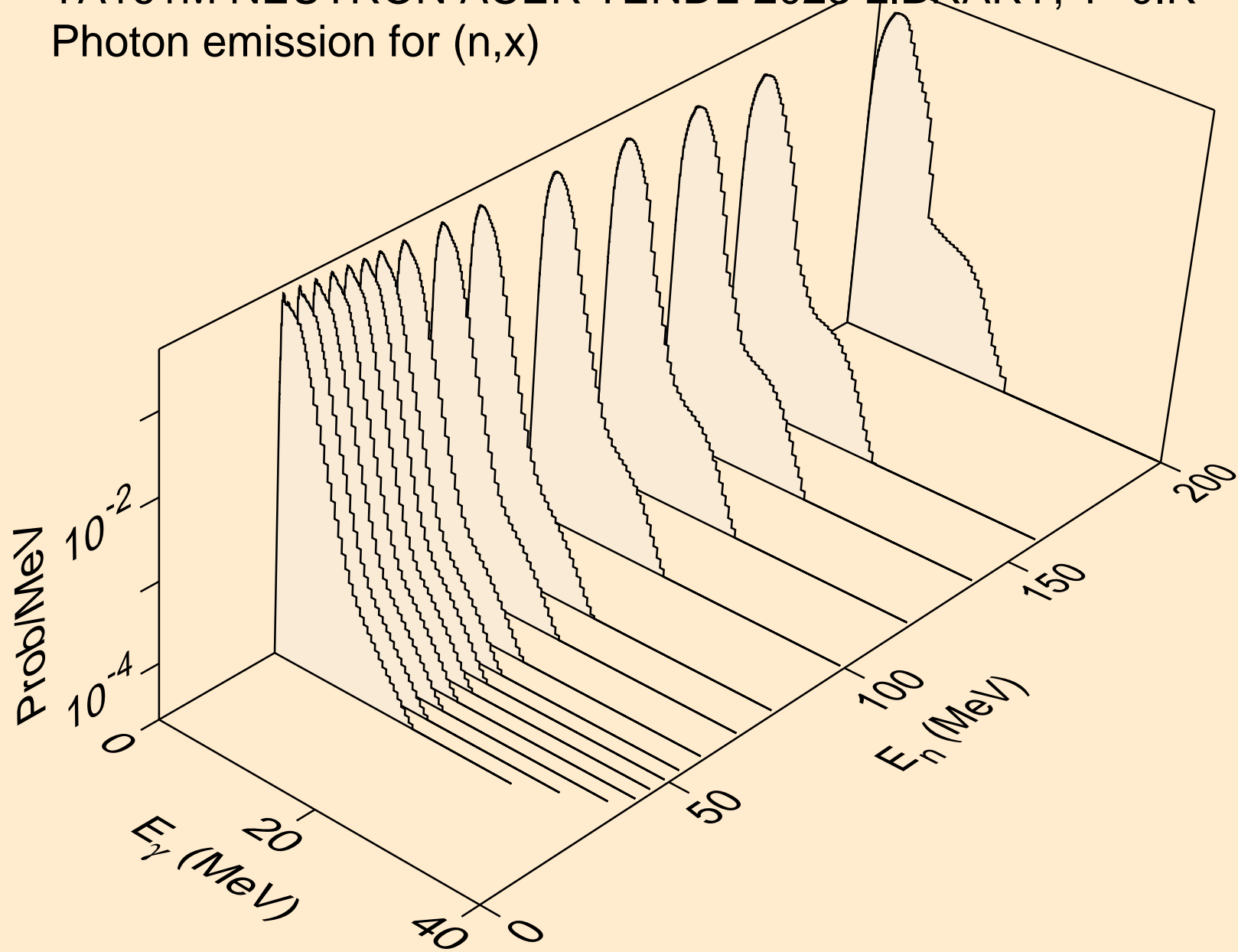




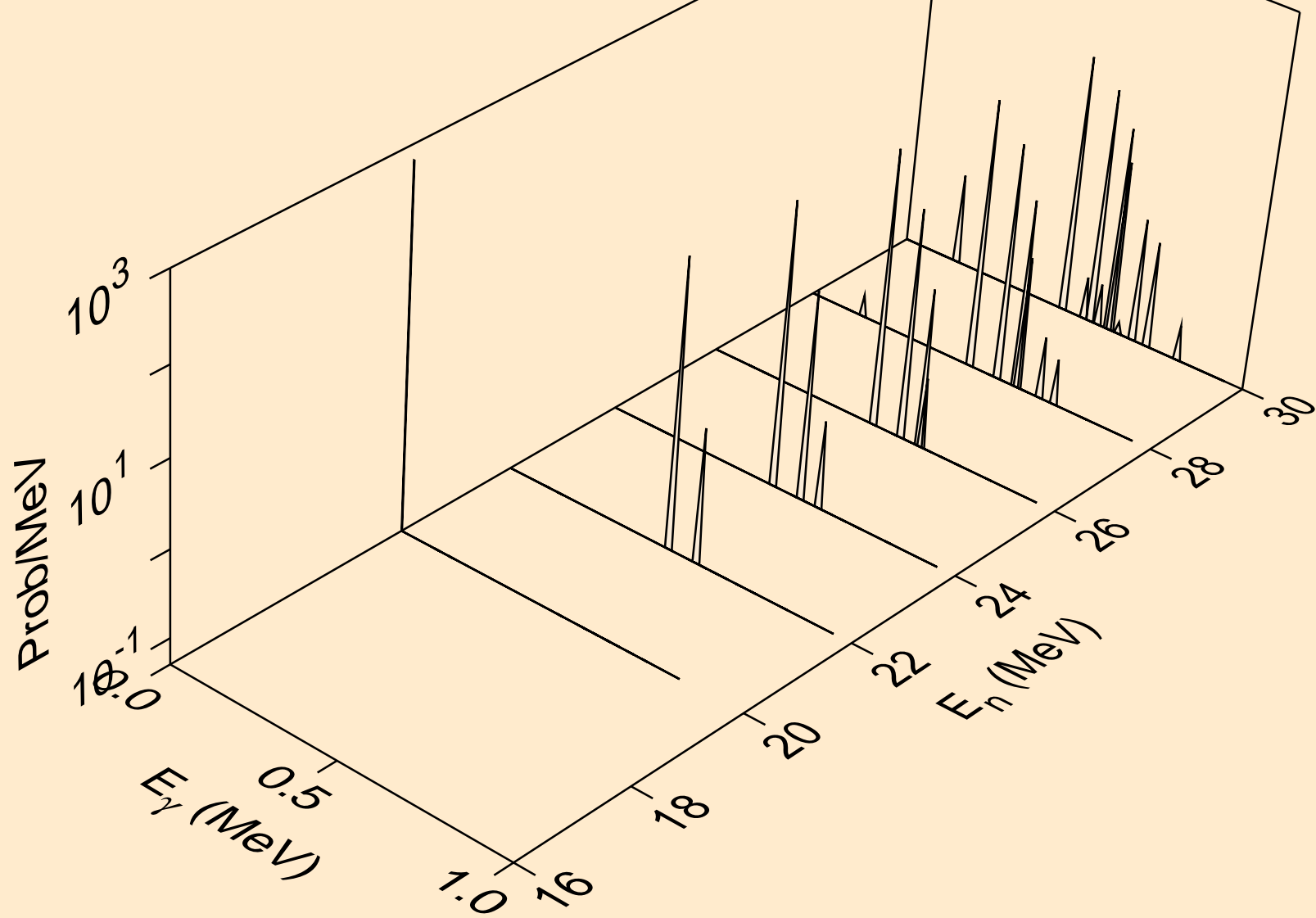
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Neutron emission for (n,n\*c)



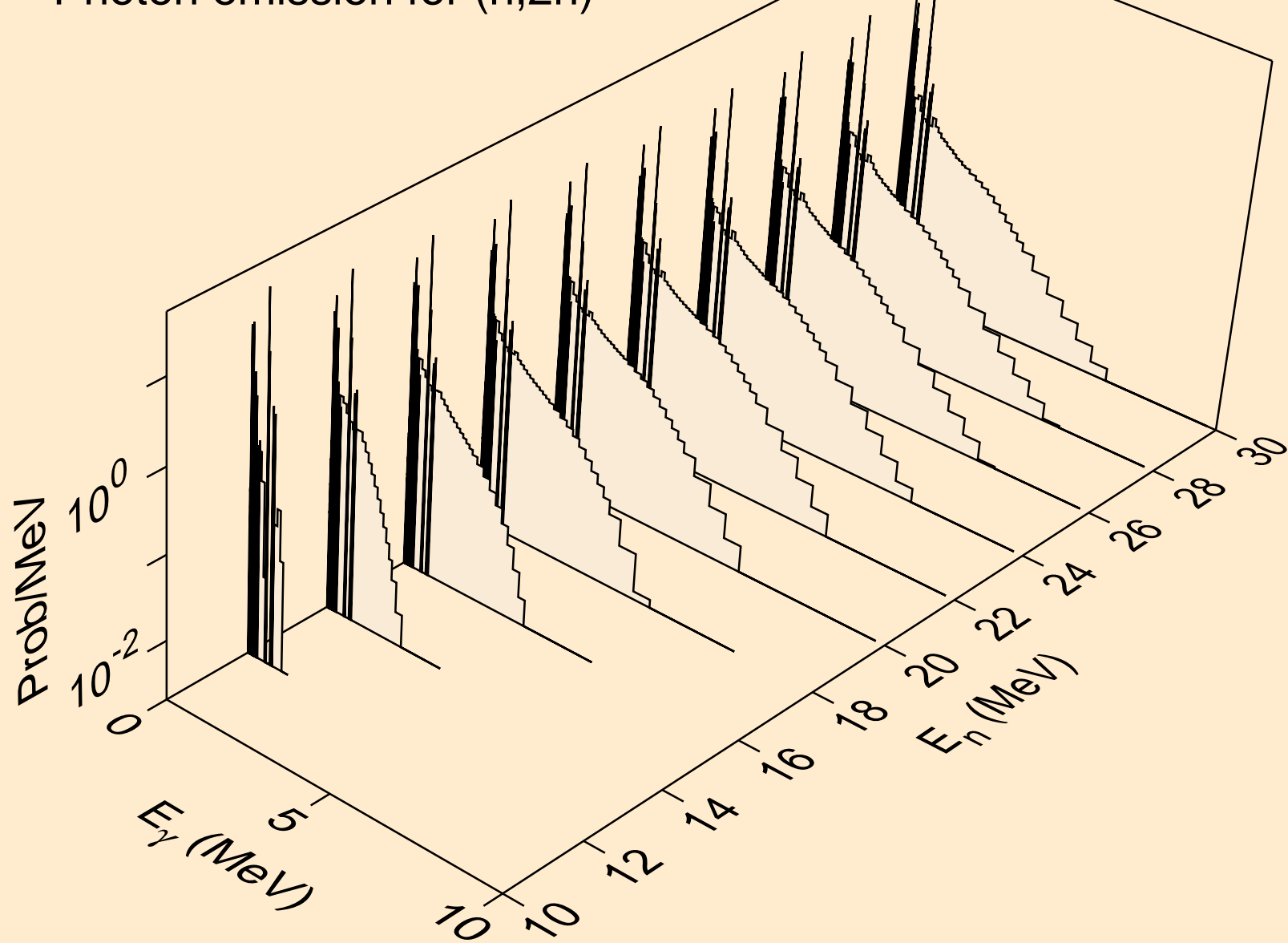
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Photon emission for (n,x)



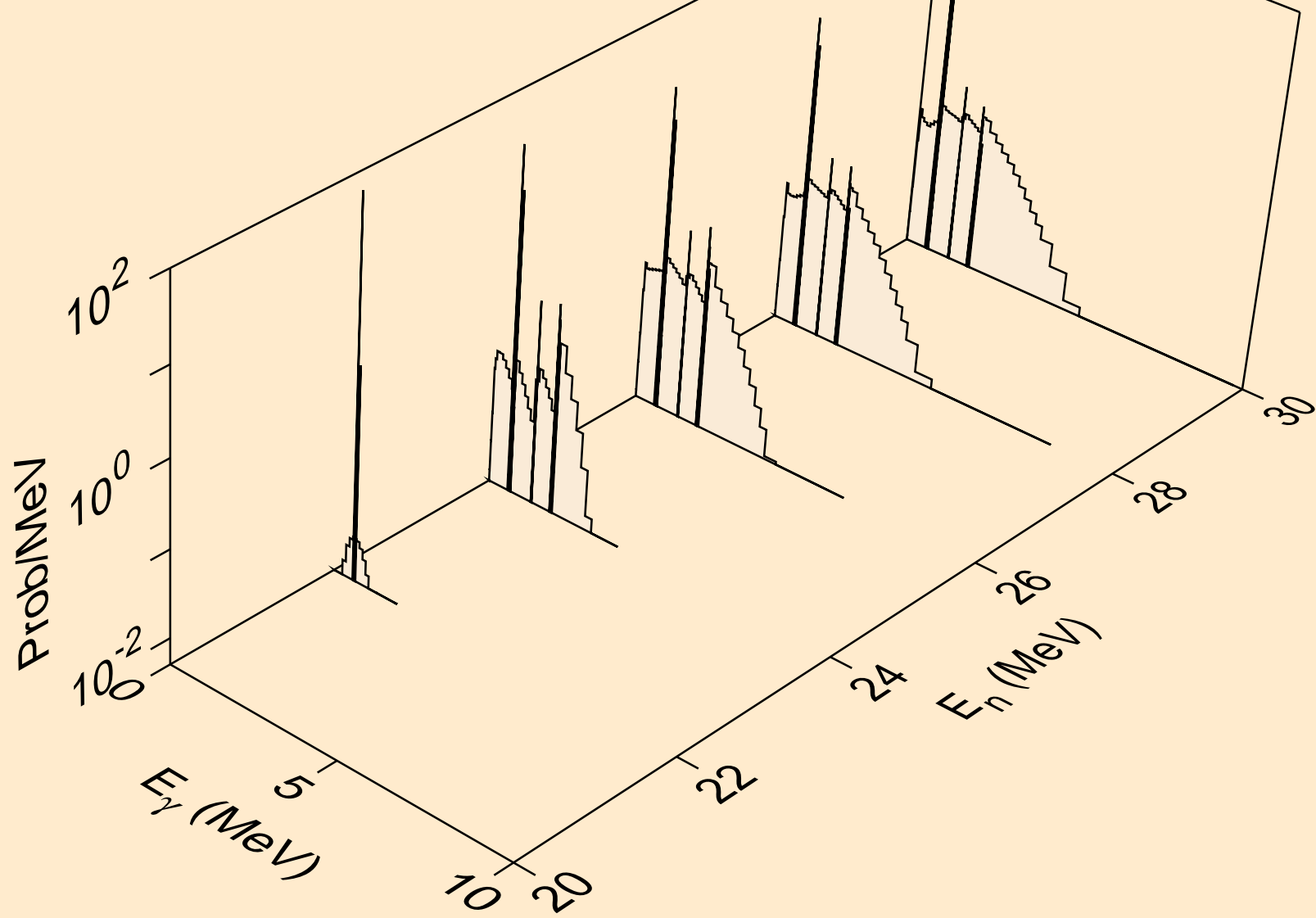
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Photon emission for (n,2nd)



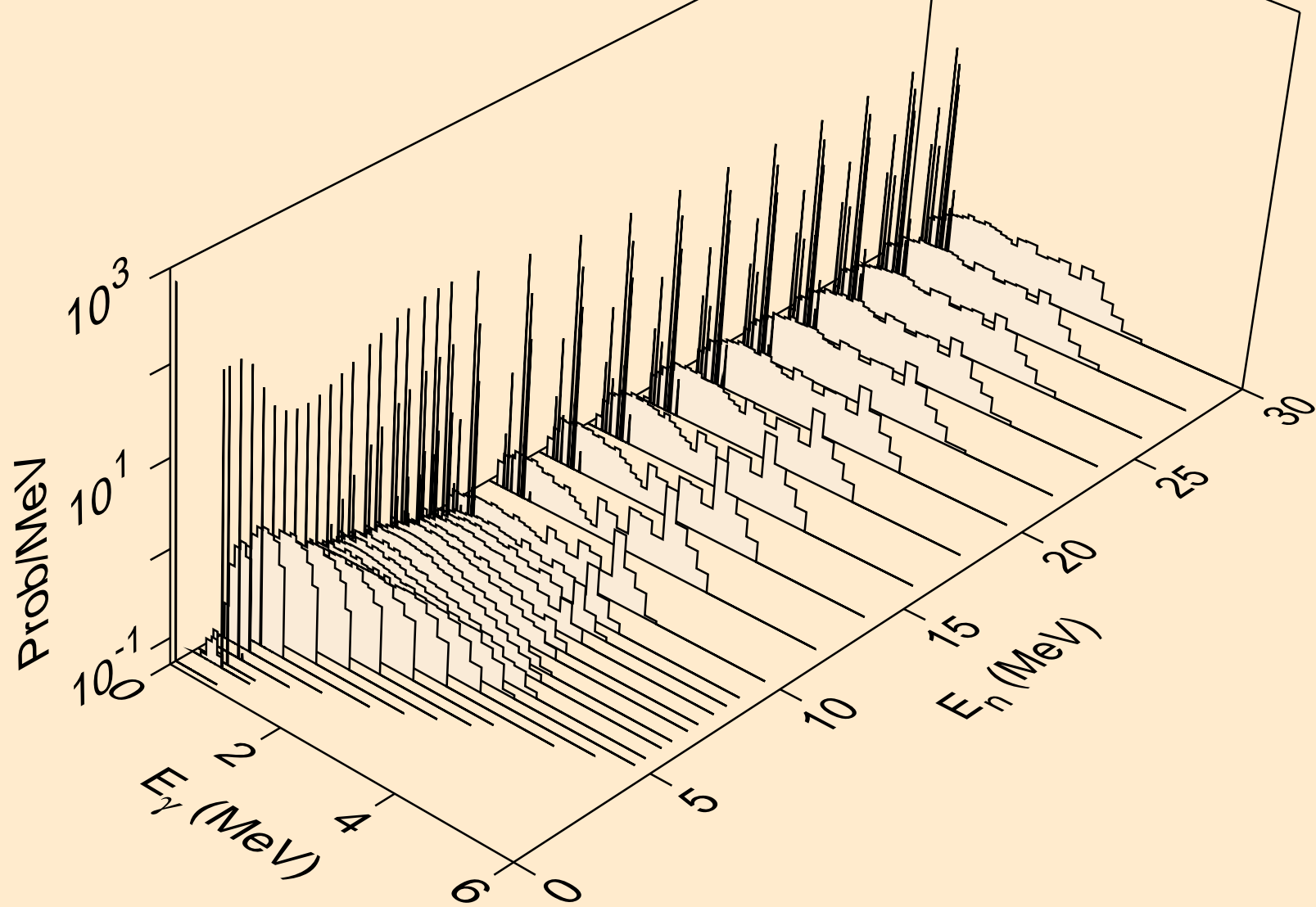
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Photon emission for (n,2n)



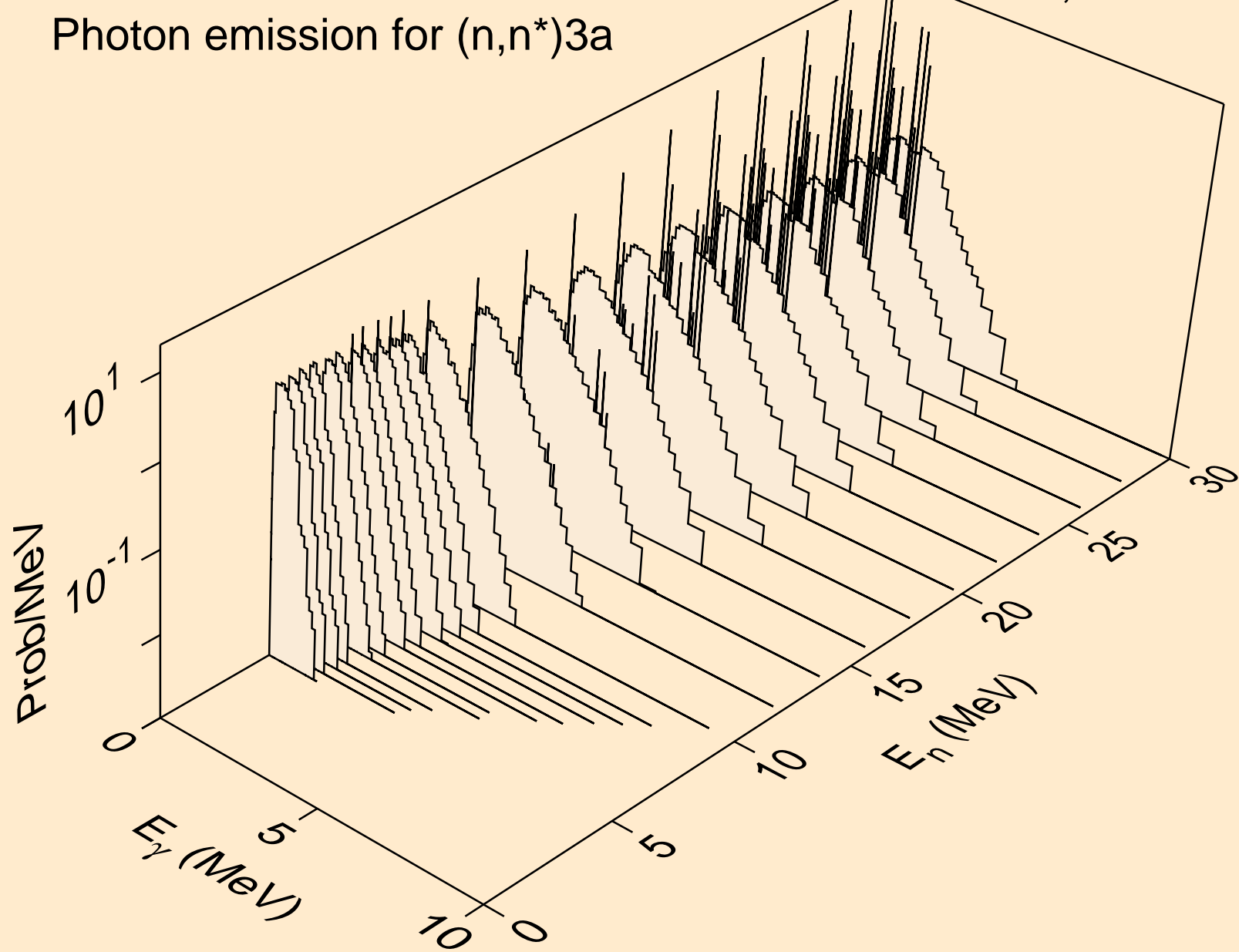
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Photon emission for (n,3n)



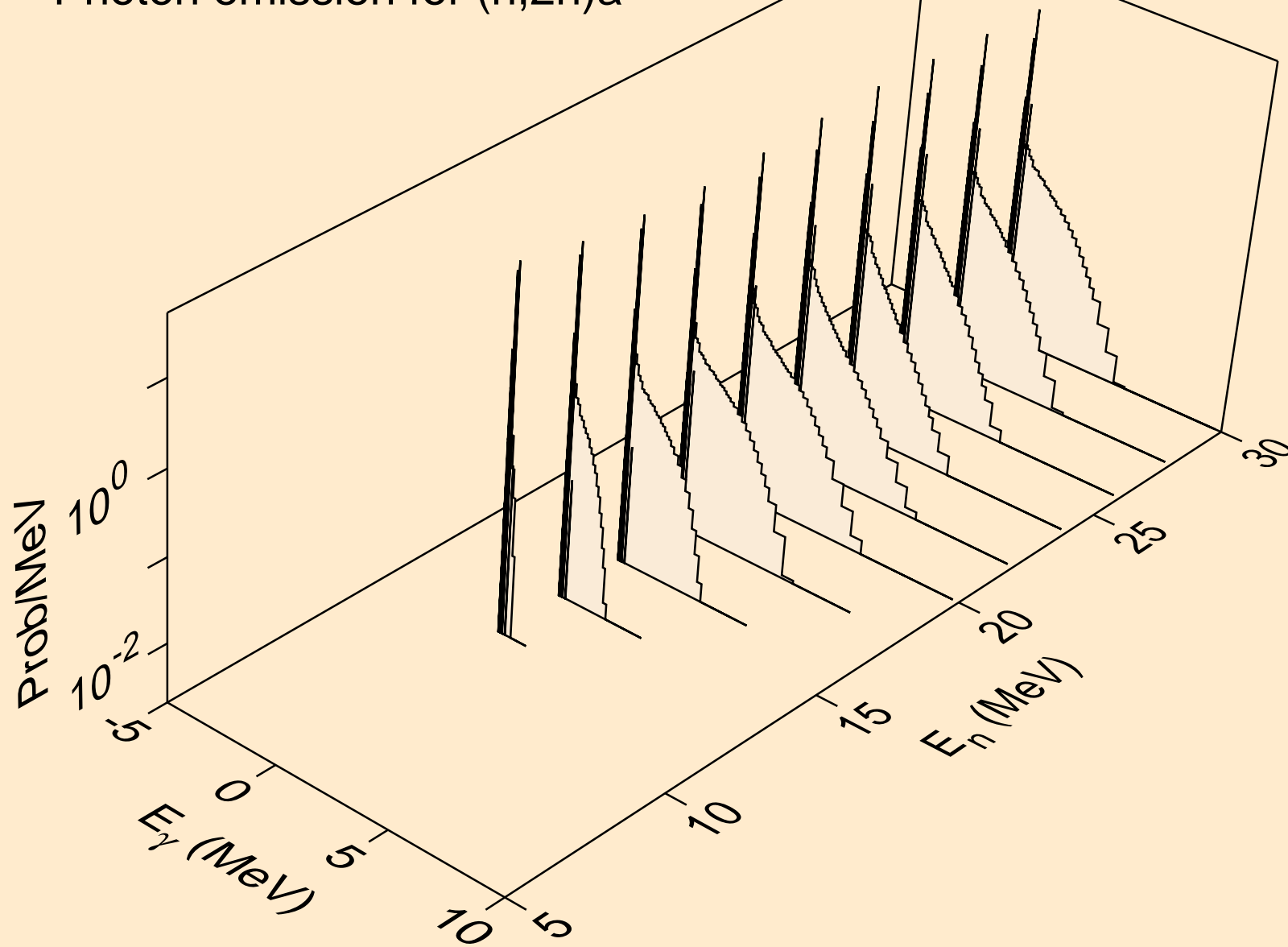
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)3a

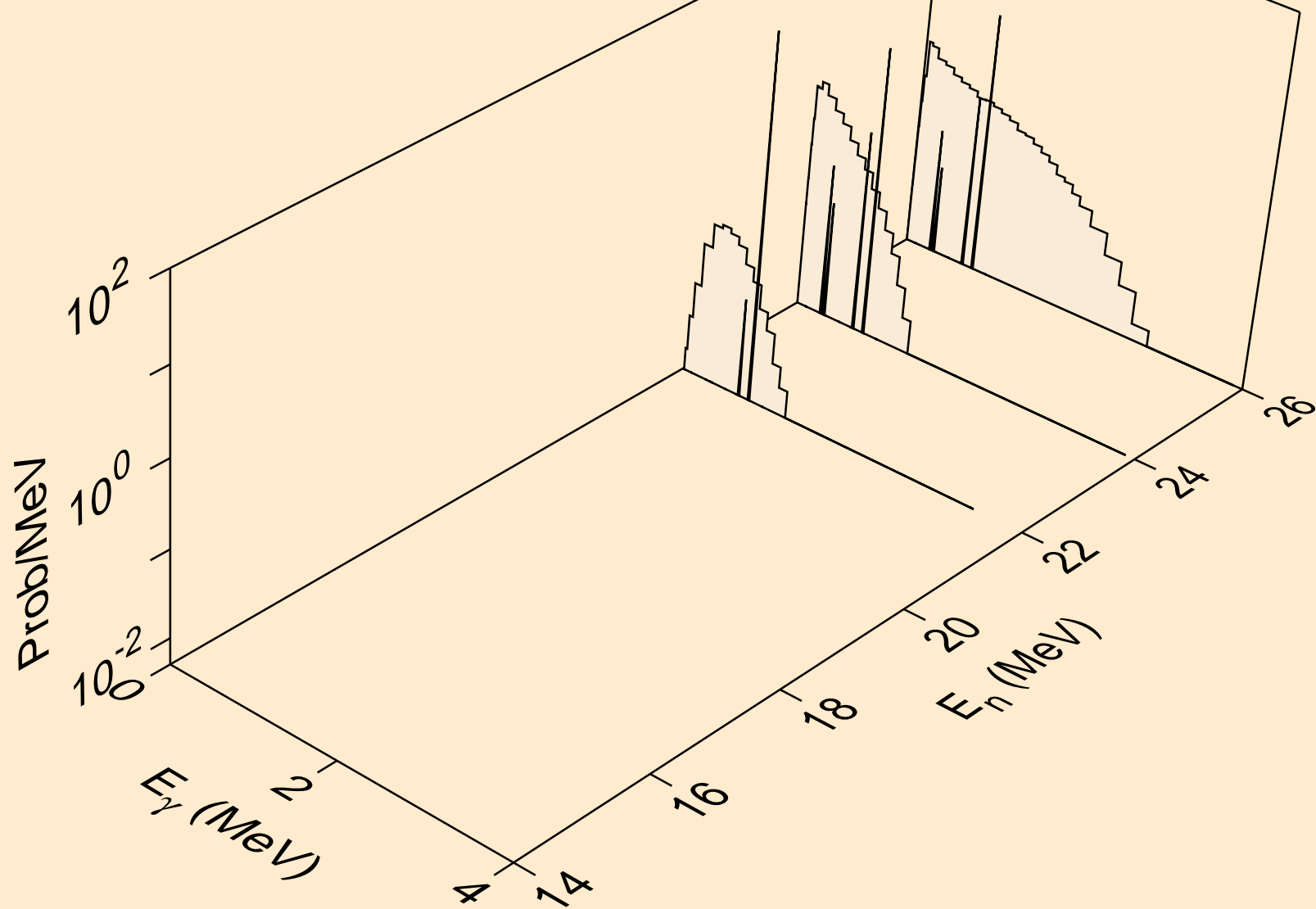


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Photon emission for (n,2n)a

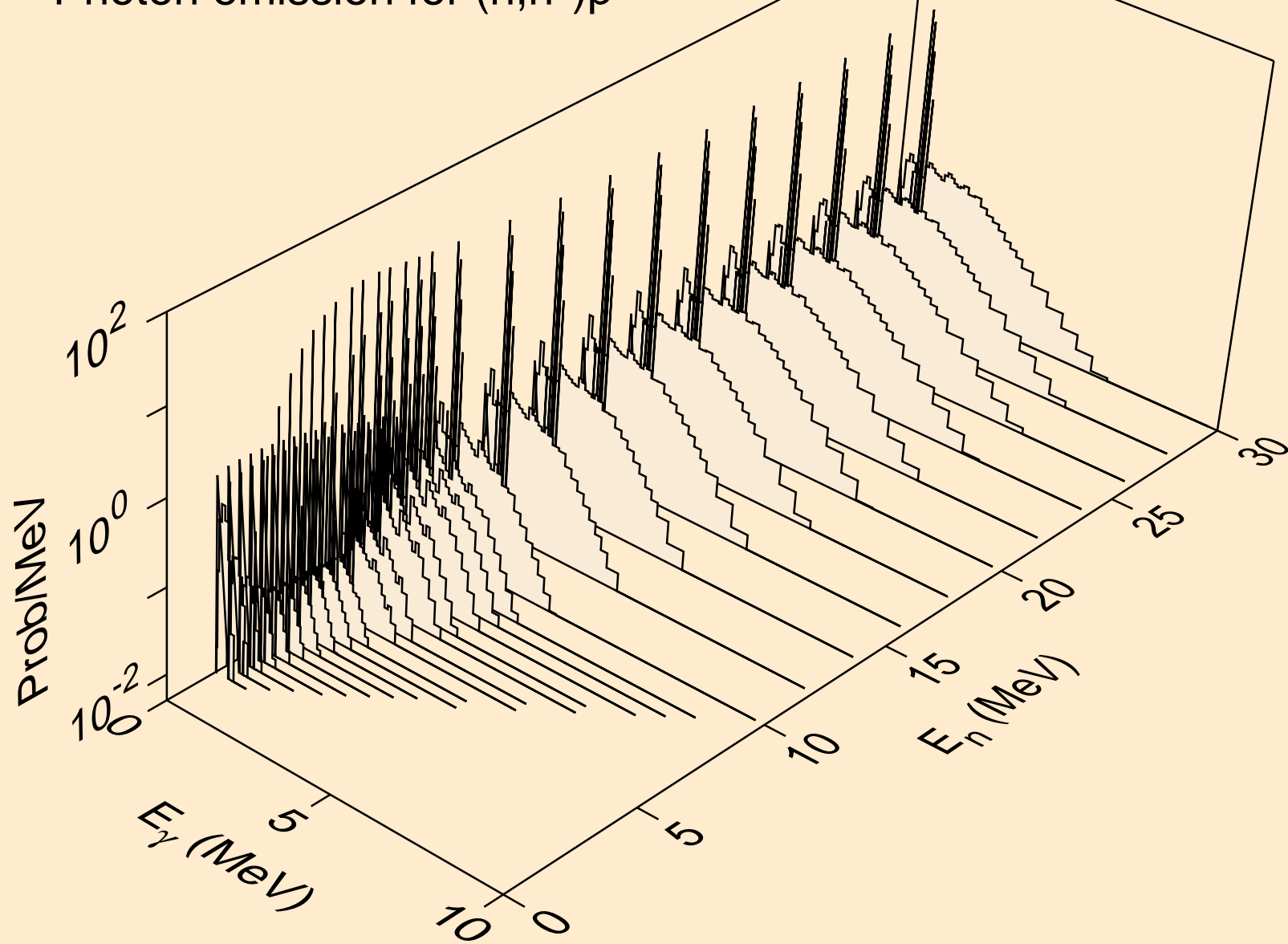




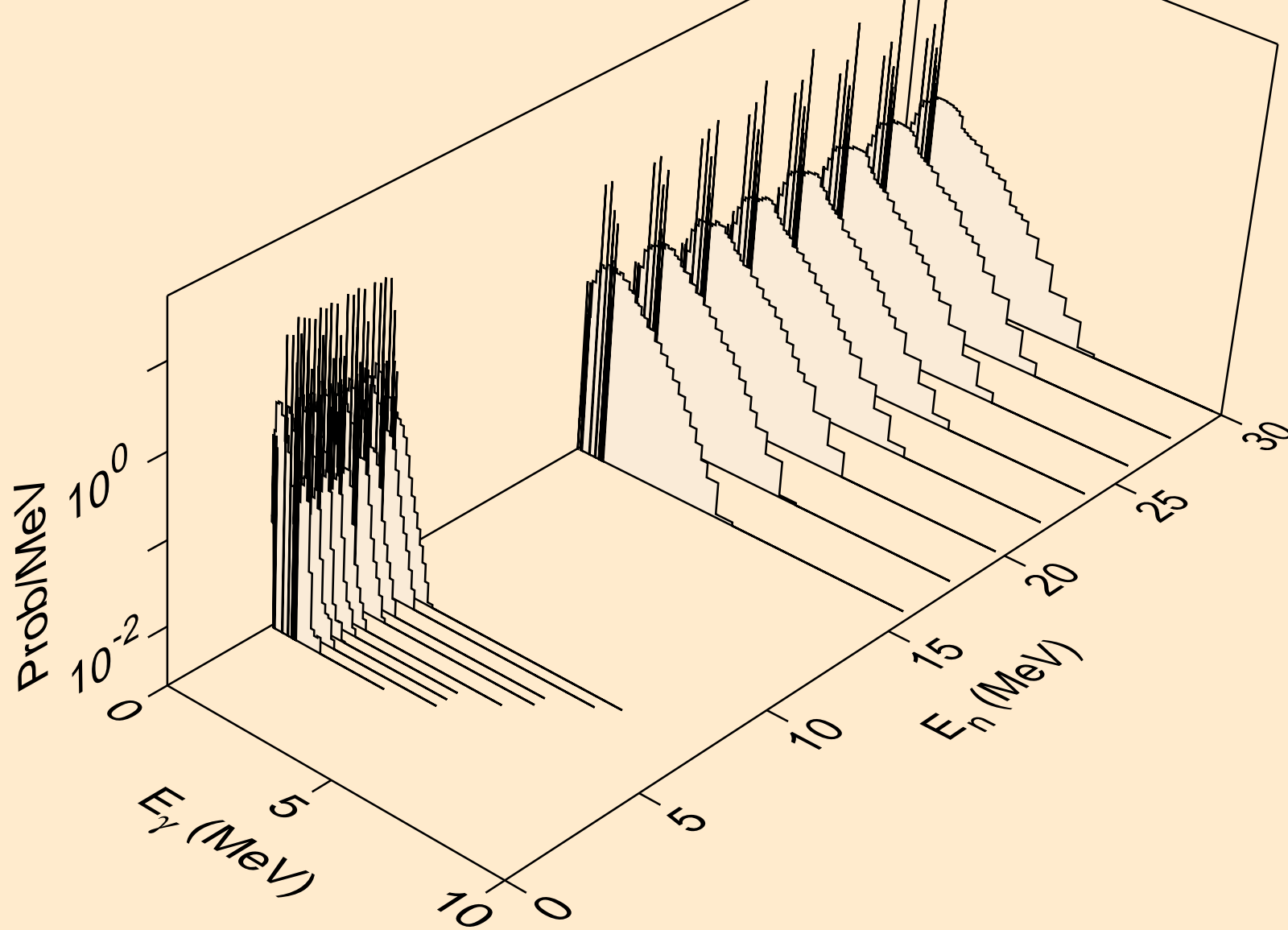
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Photon emission for (n,3n)a



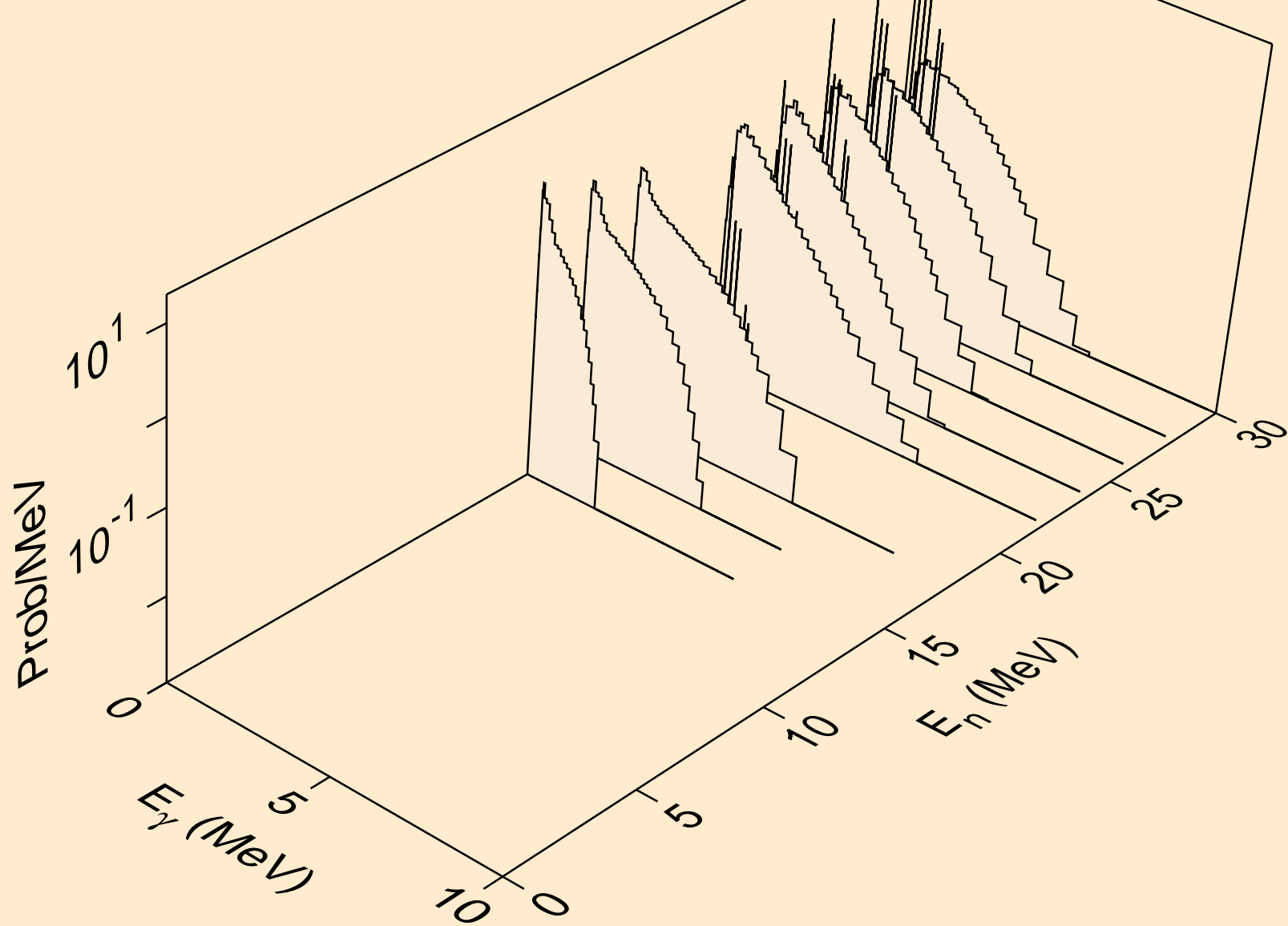
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



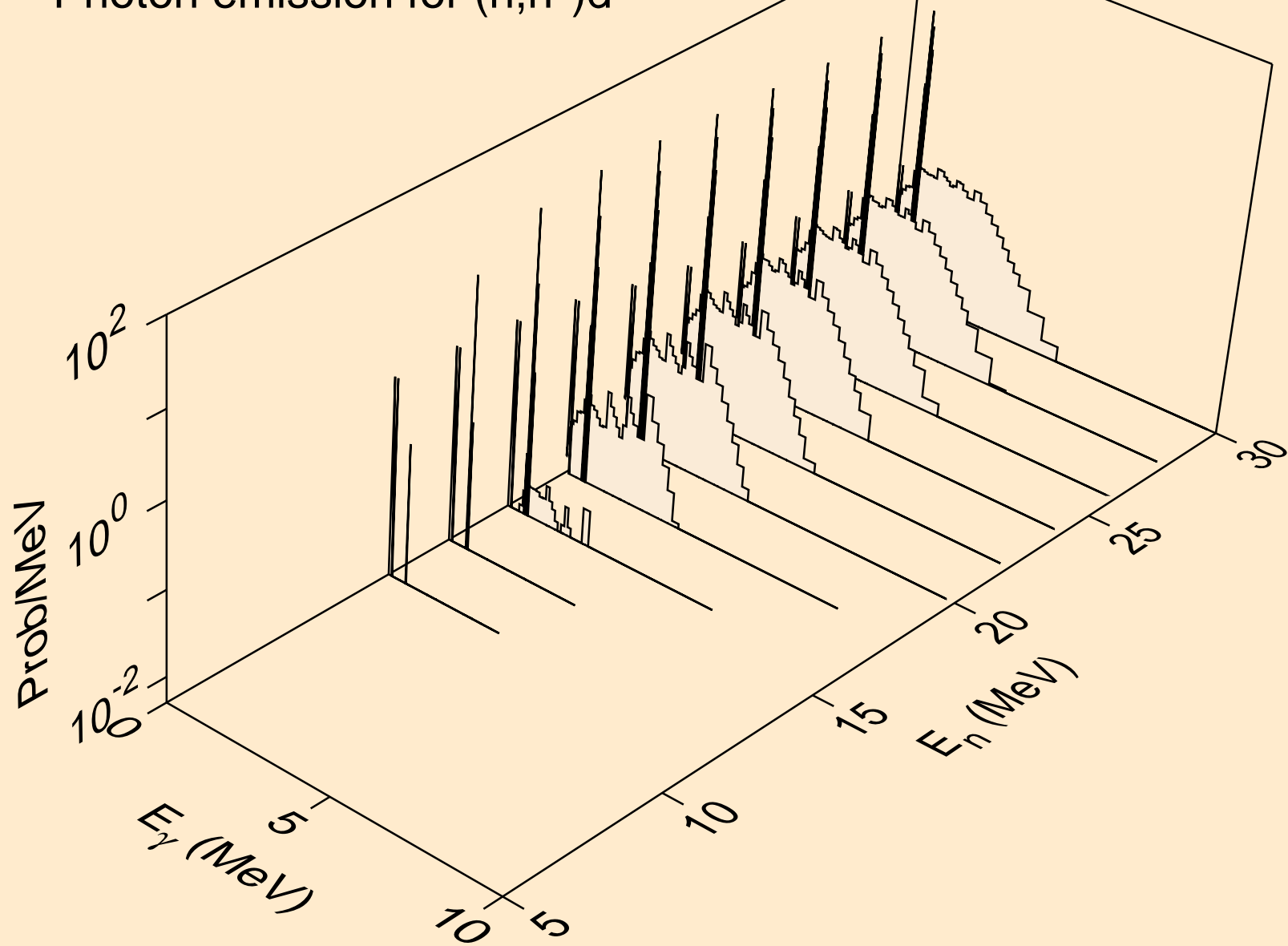
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



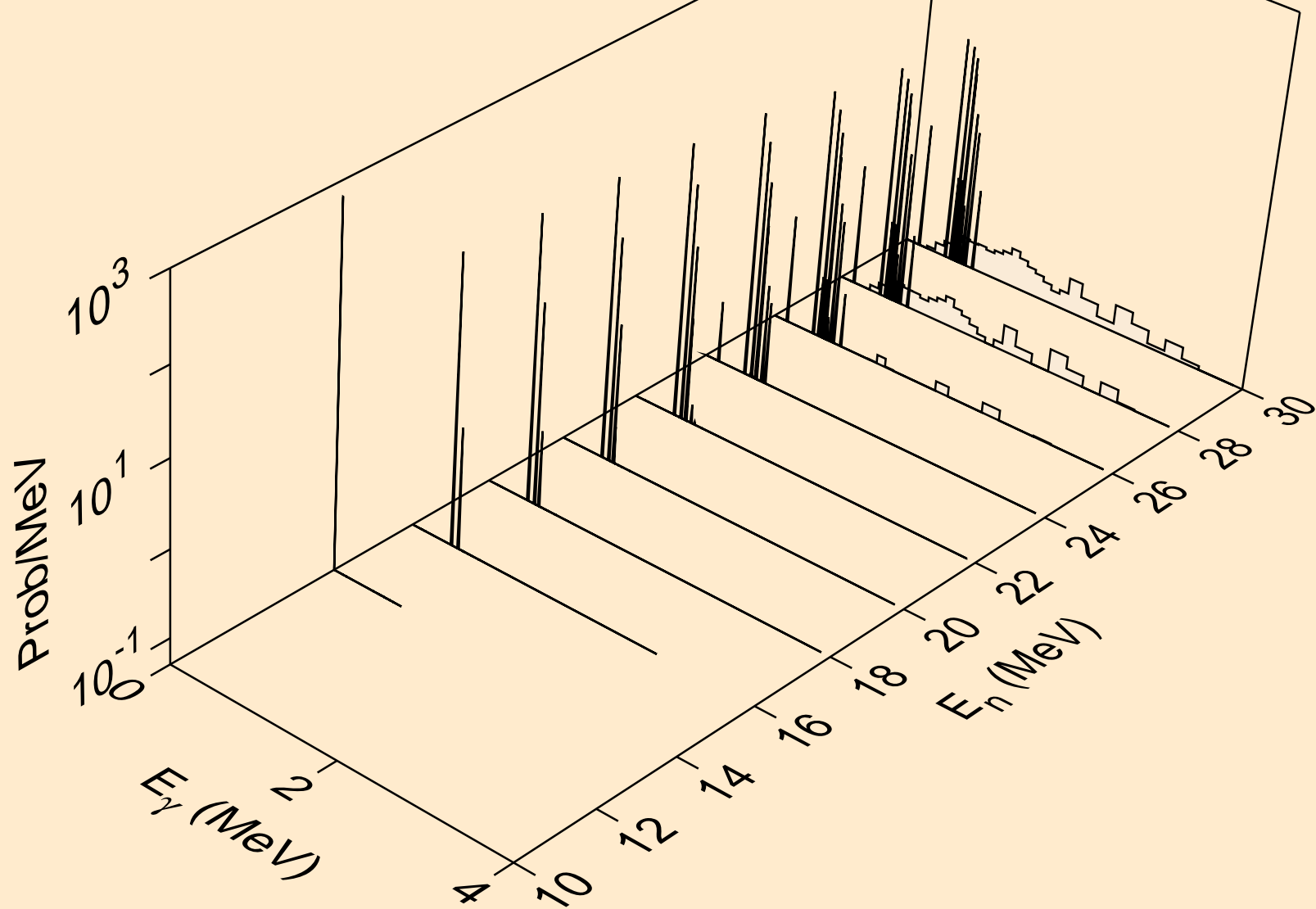
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



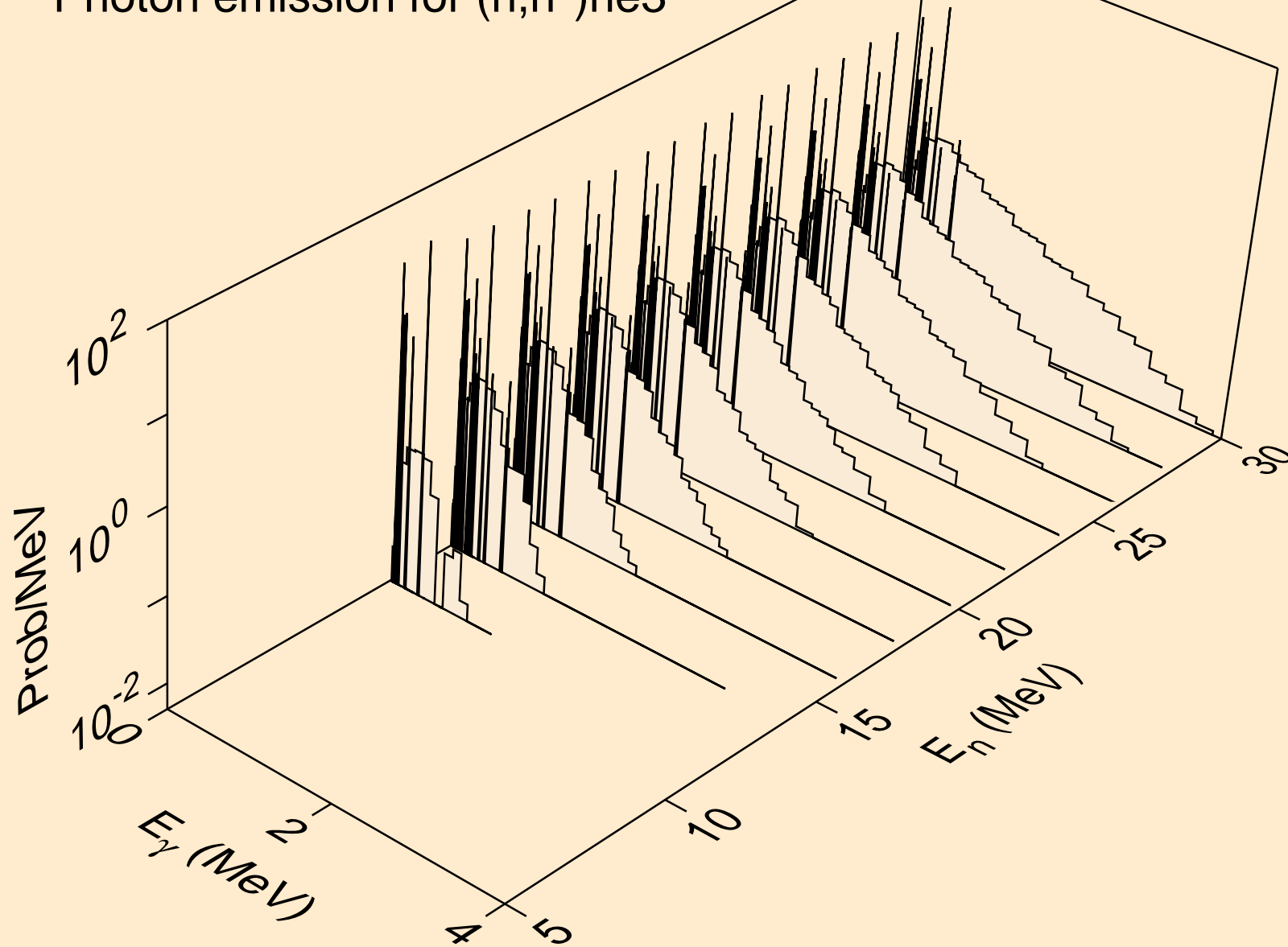
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



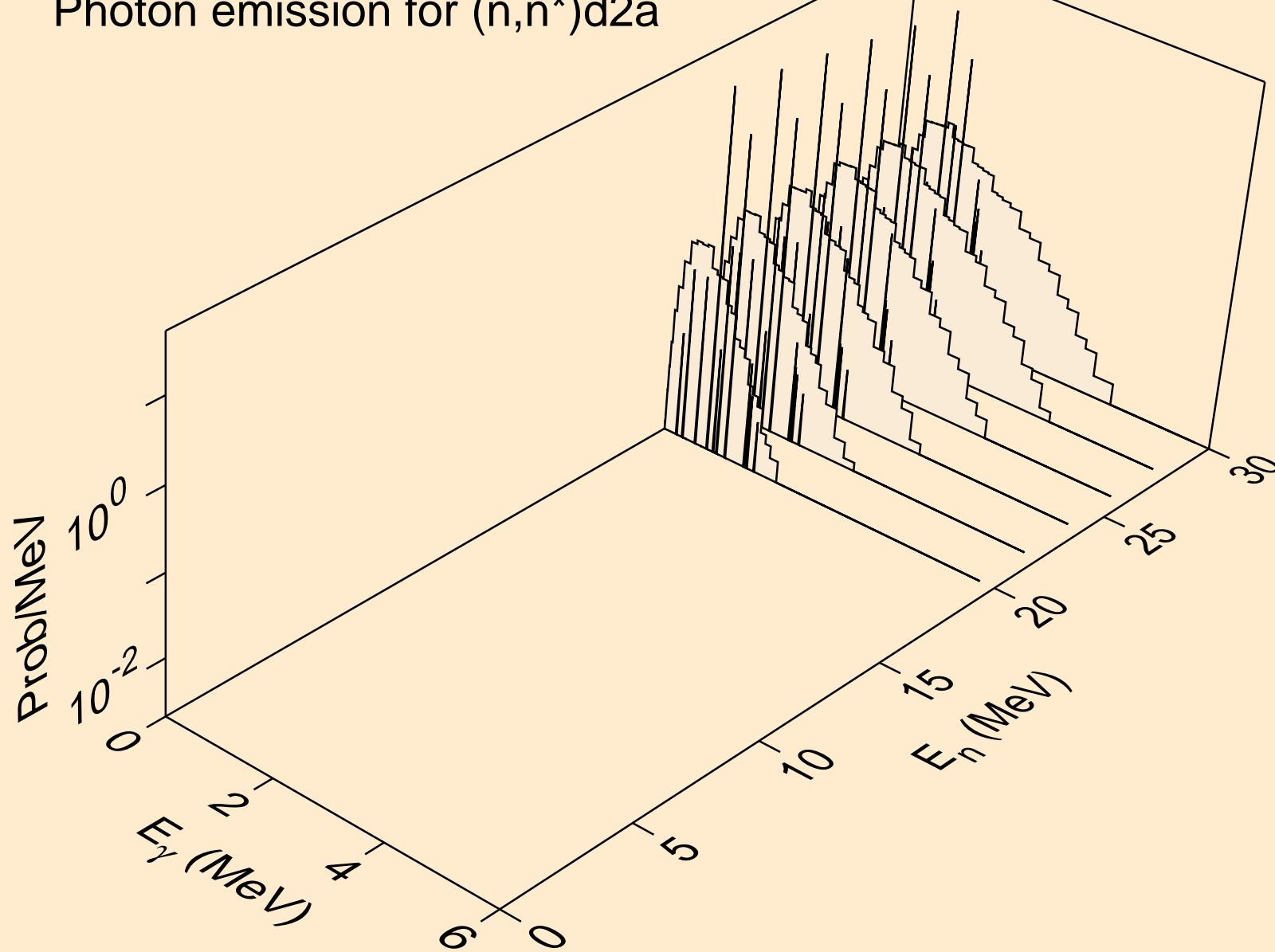
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

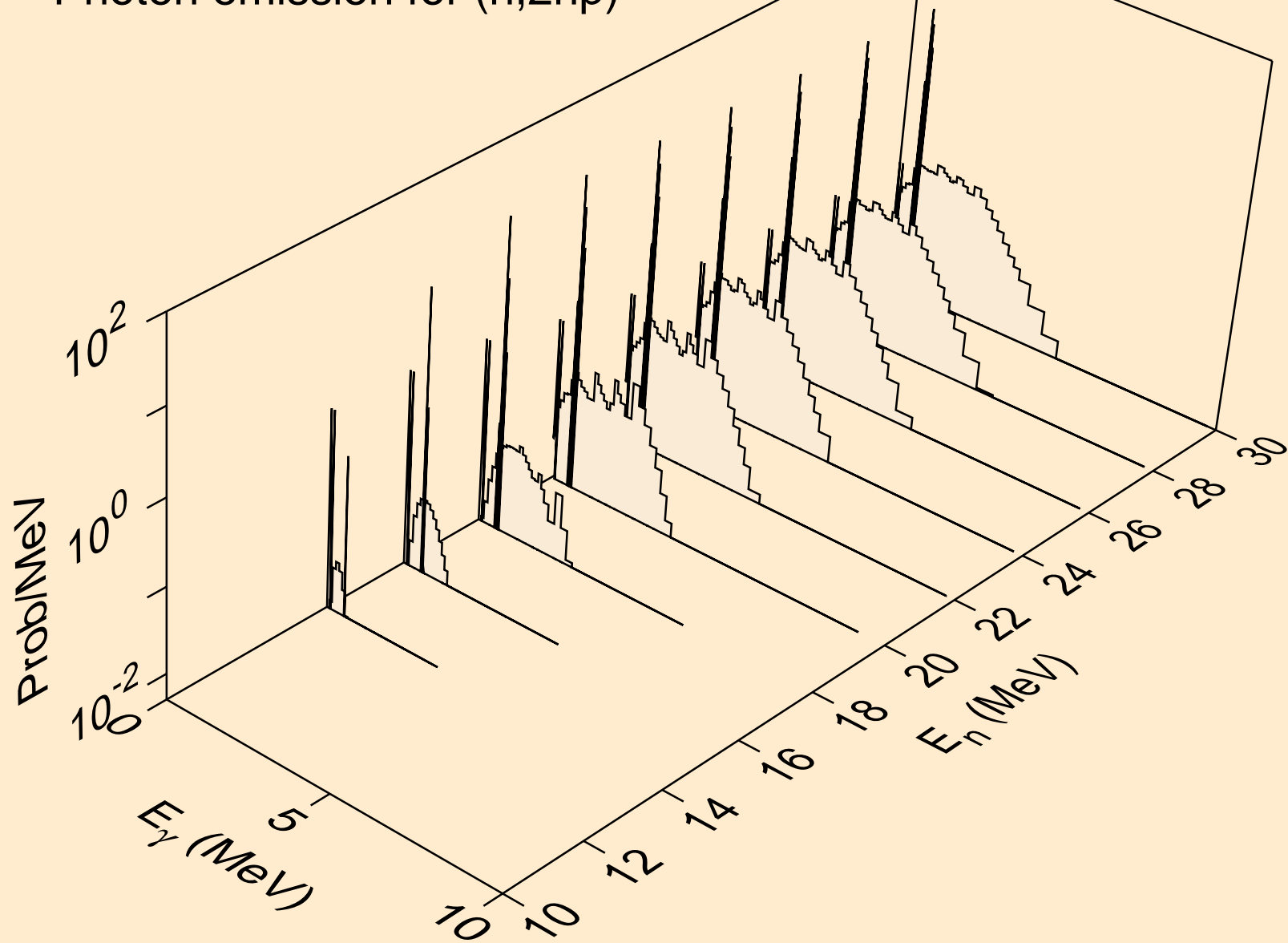


TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d2a

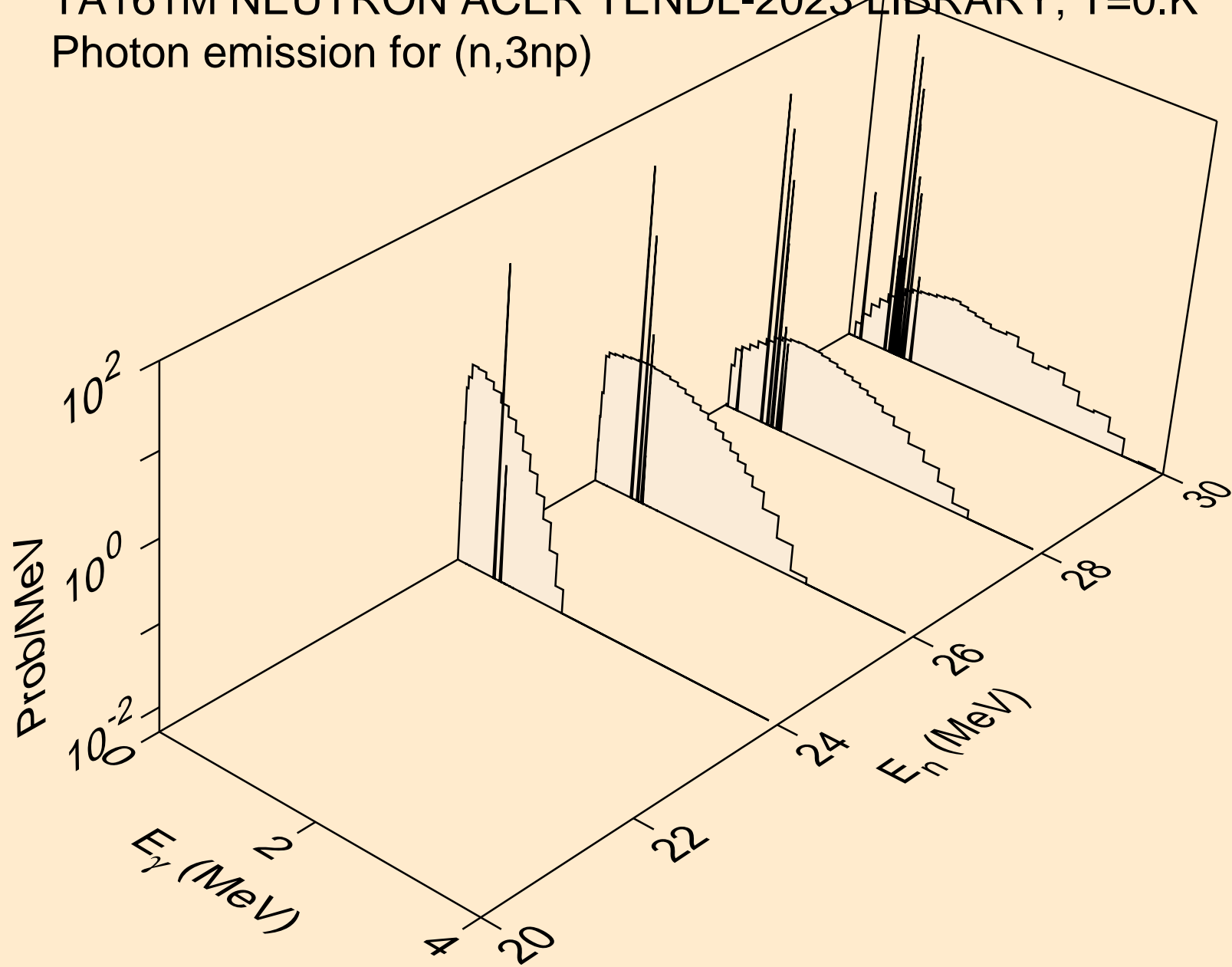




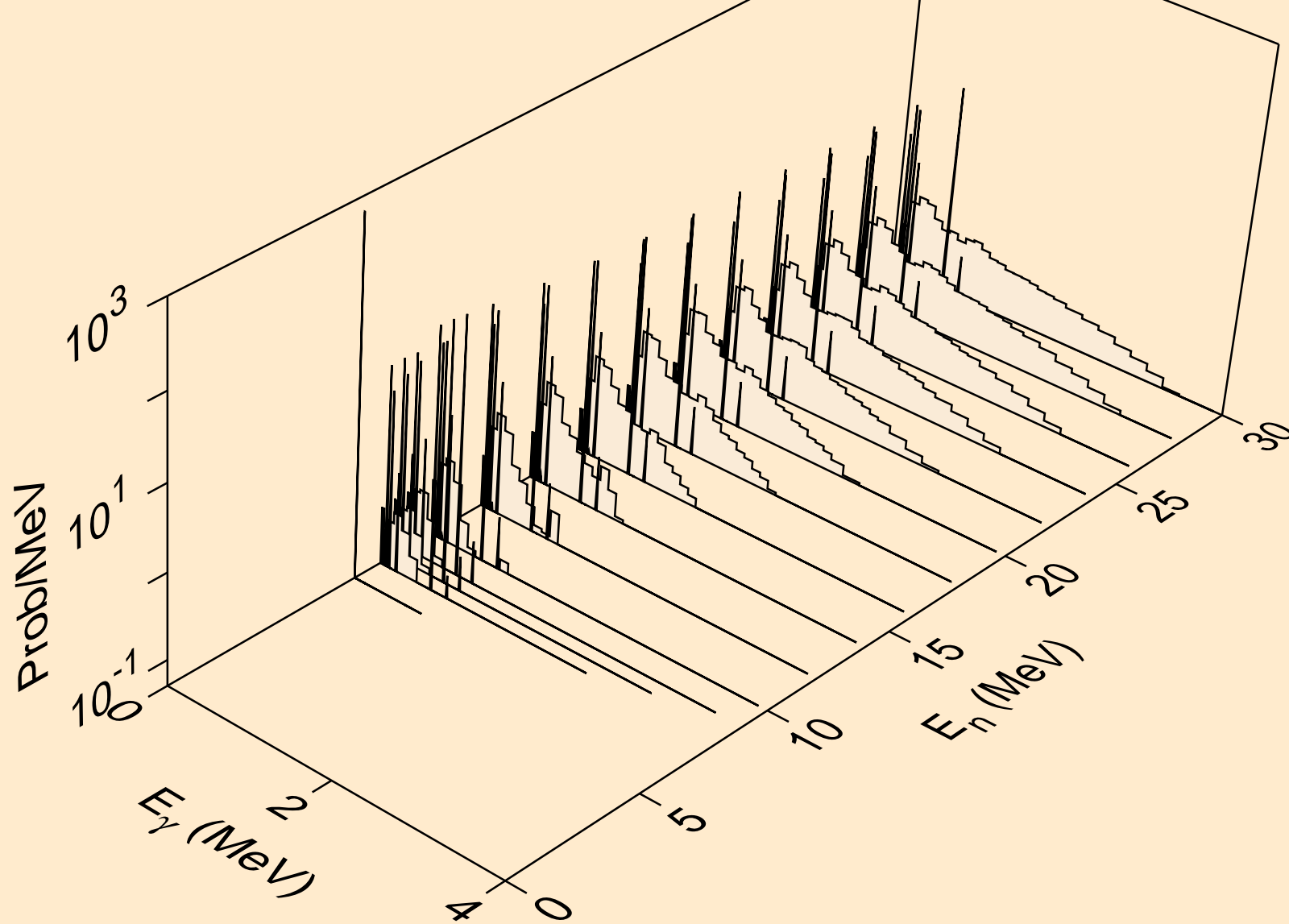
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Photon emission for (n,2np)



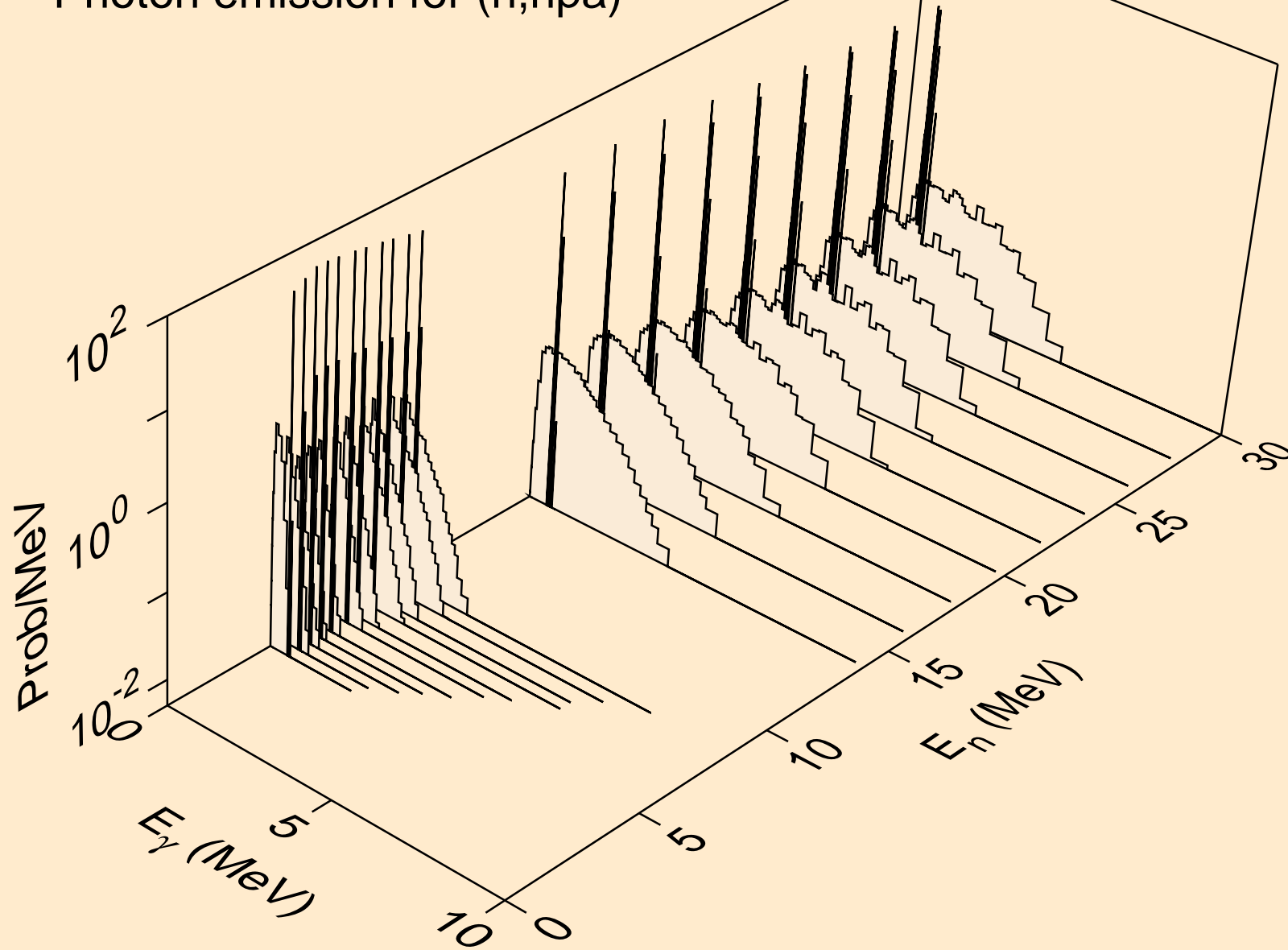
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Photon emission for (n,3np)



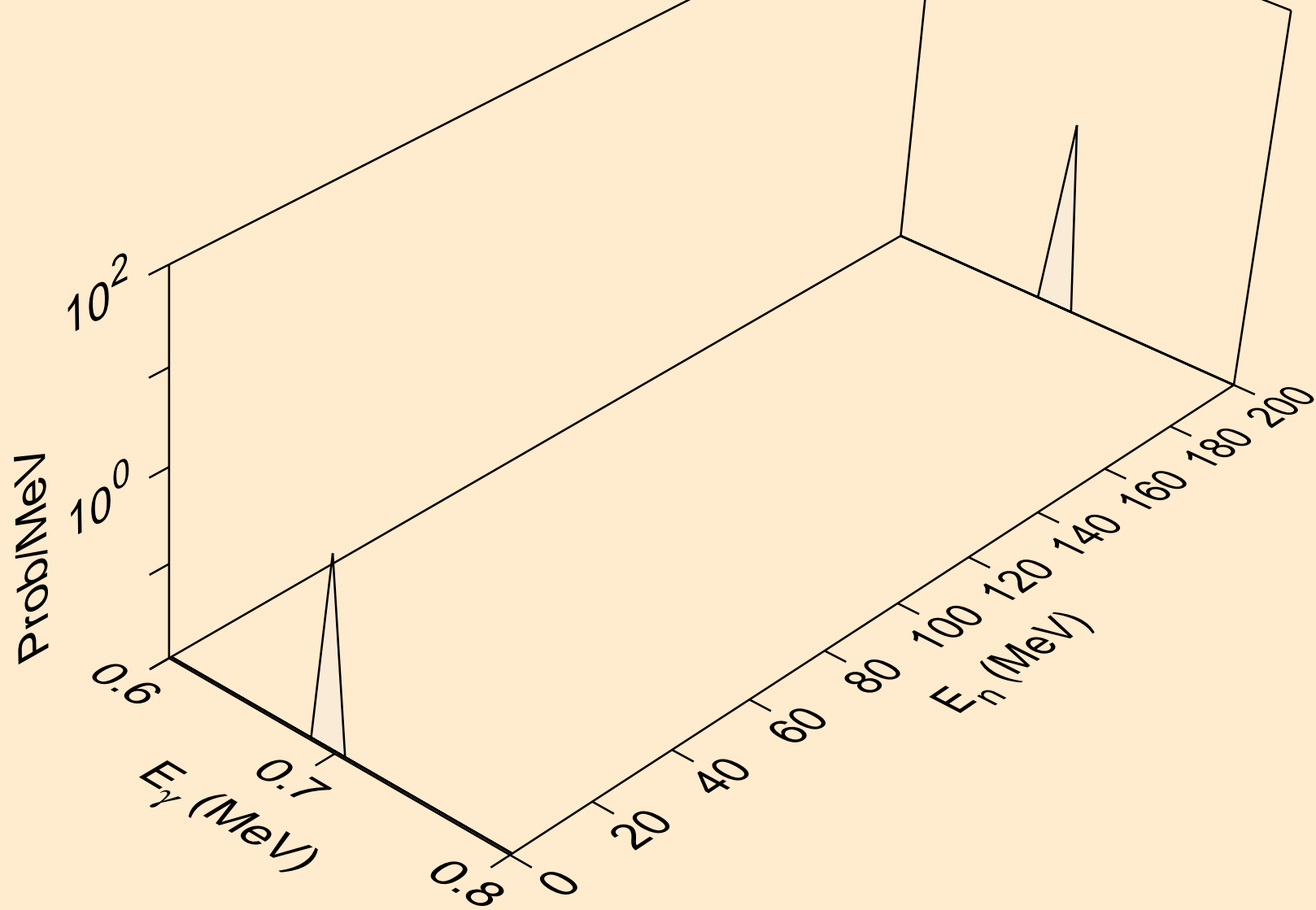
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Photon emission for (n,n2p)



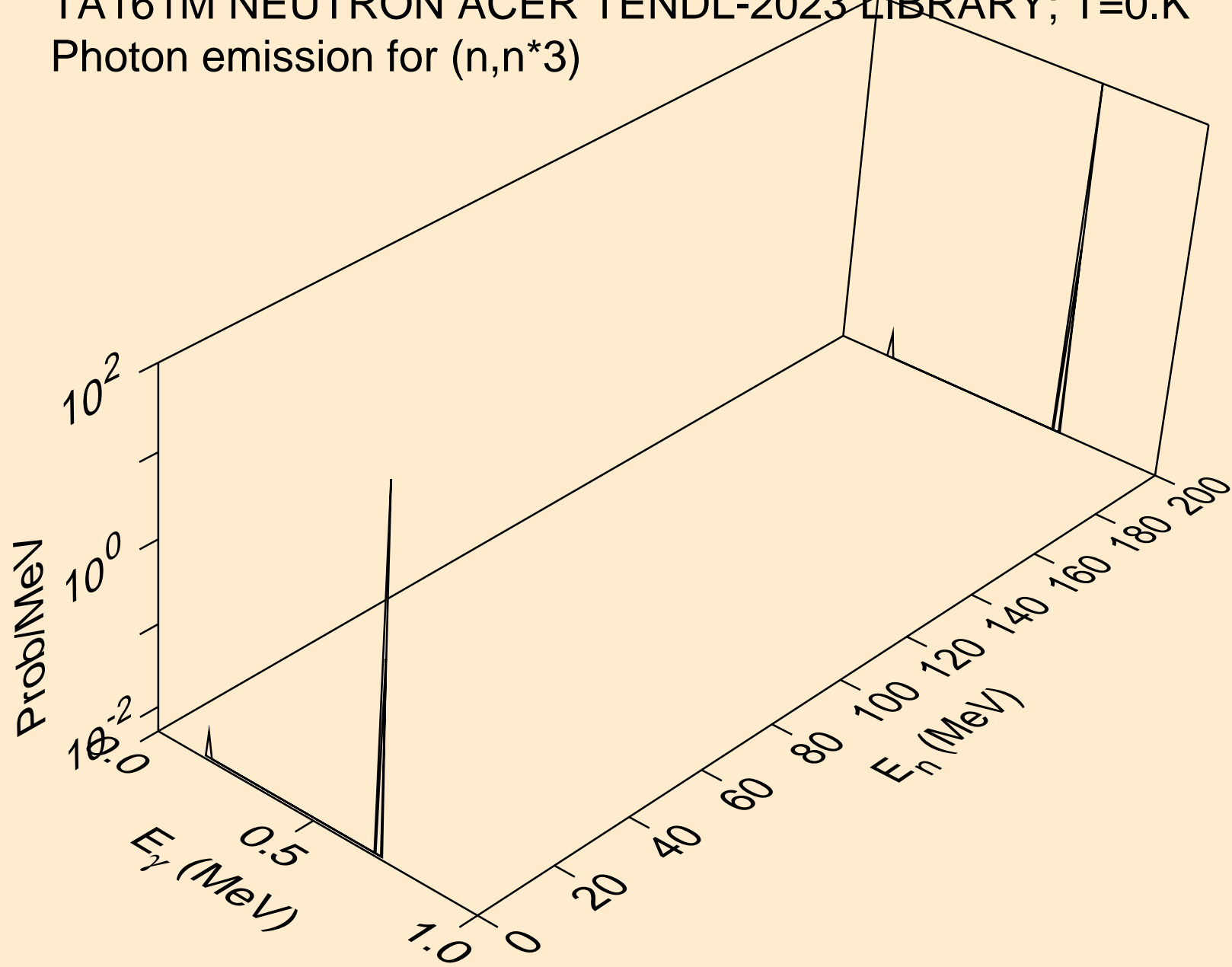
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Photon emission for (n,npa)



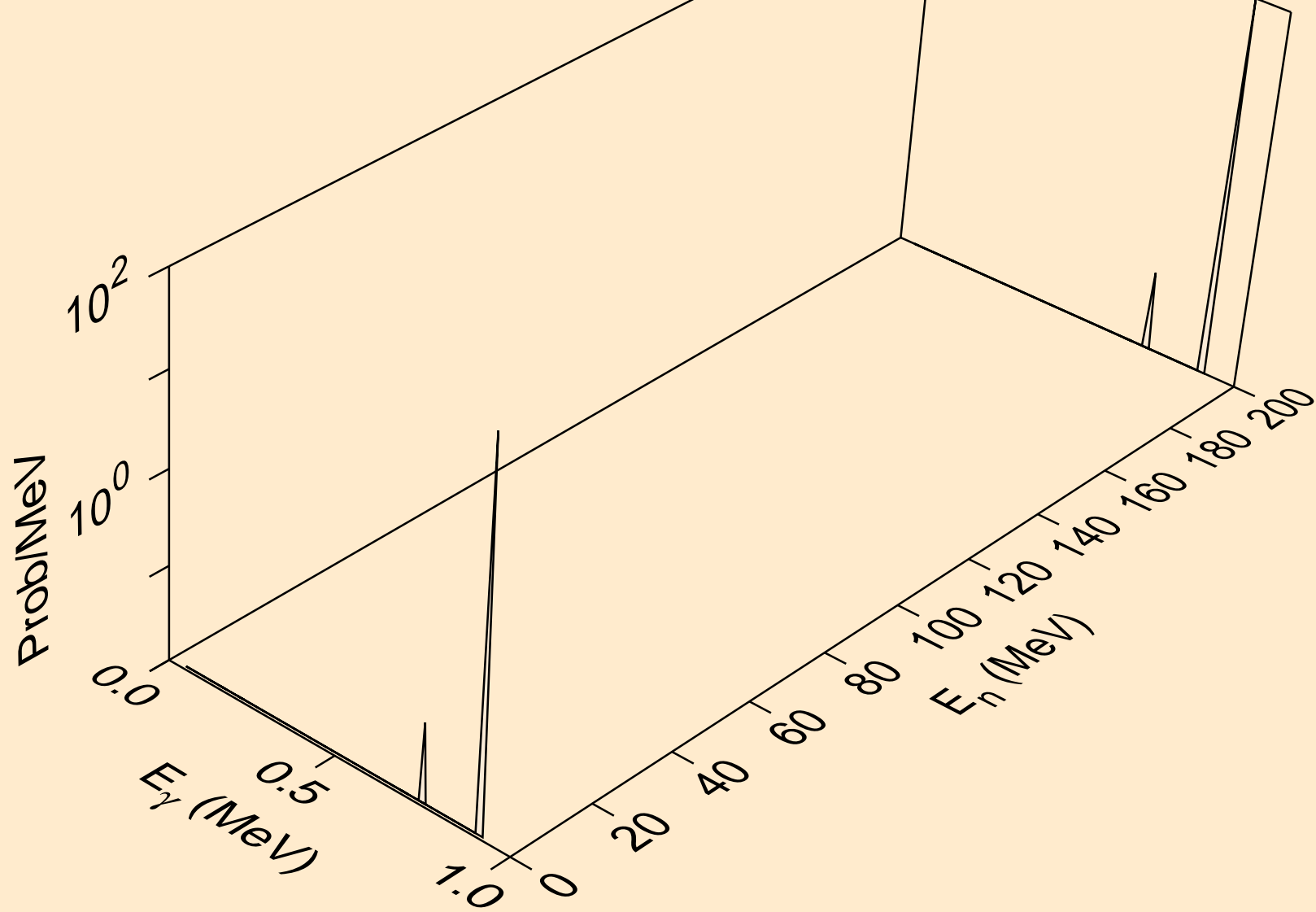
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Photon emission for (n,n\*2)



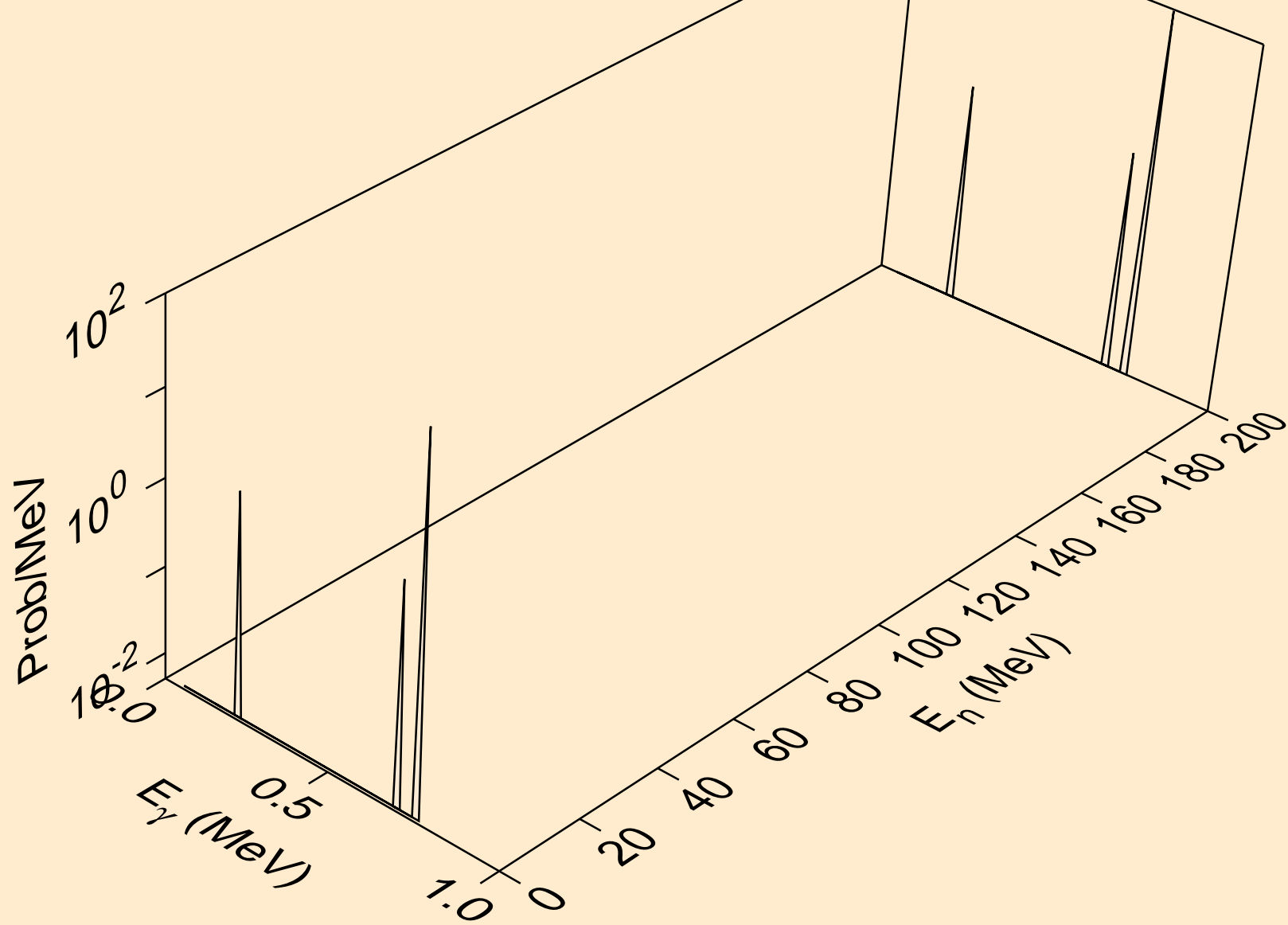
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*3)



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*4)

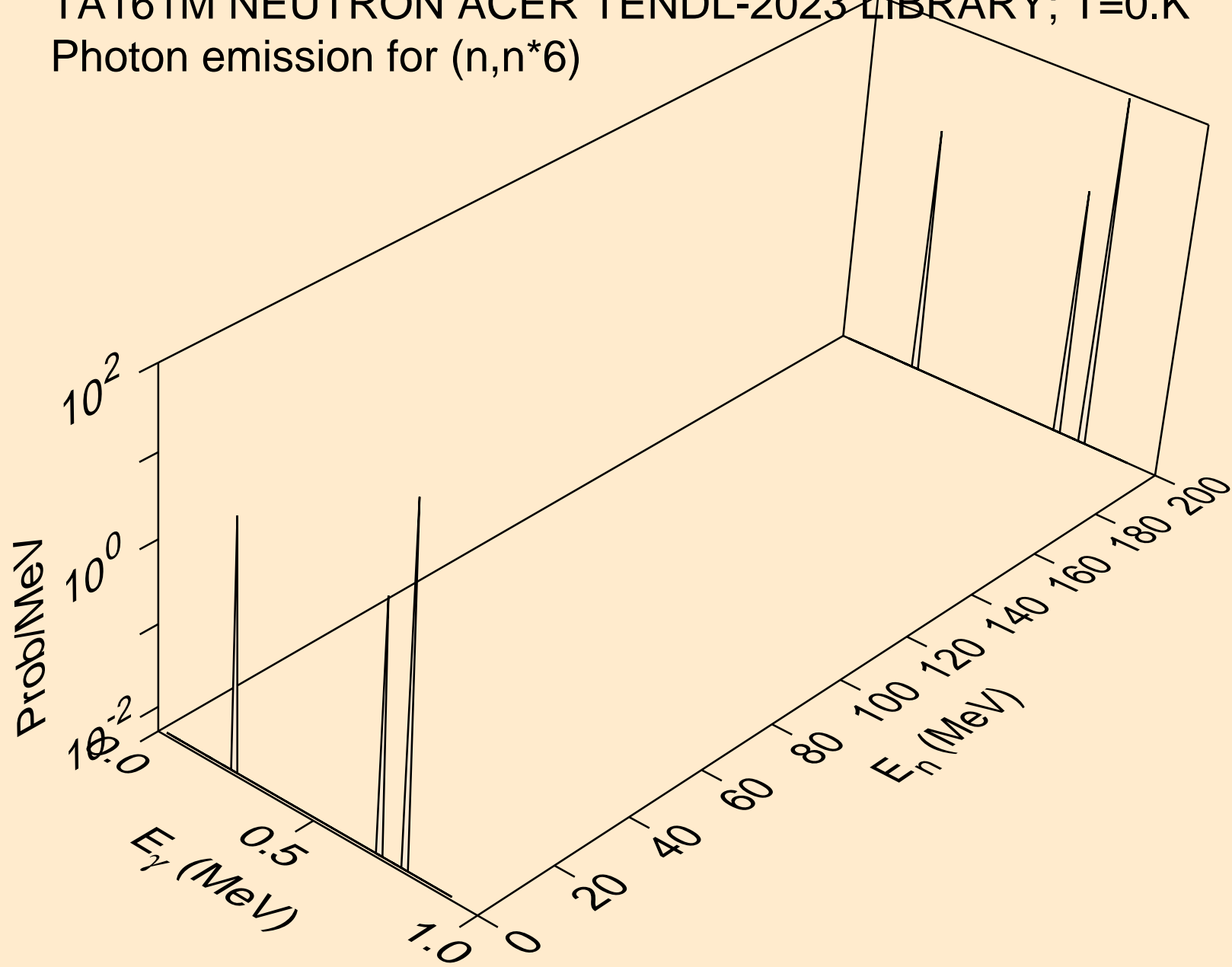


TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*5)

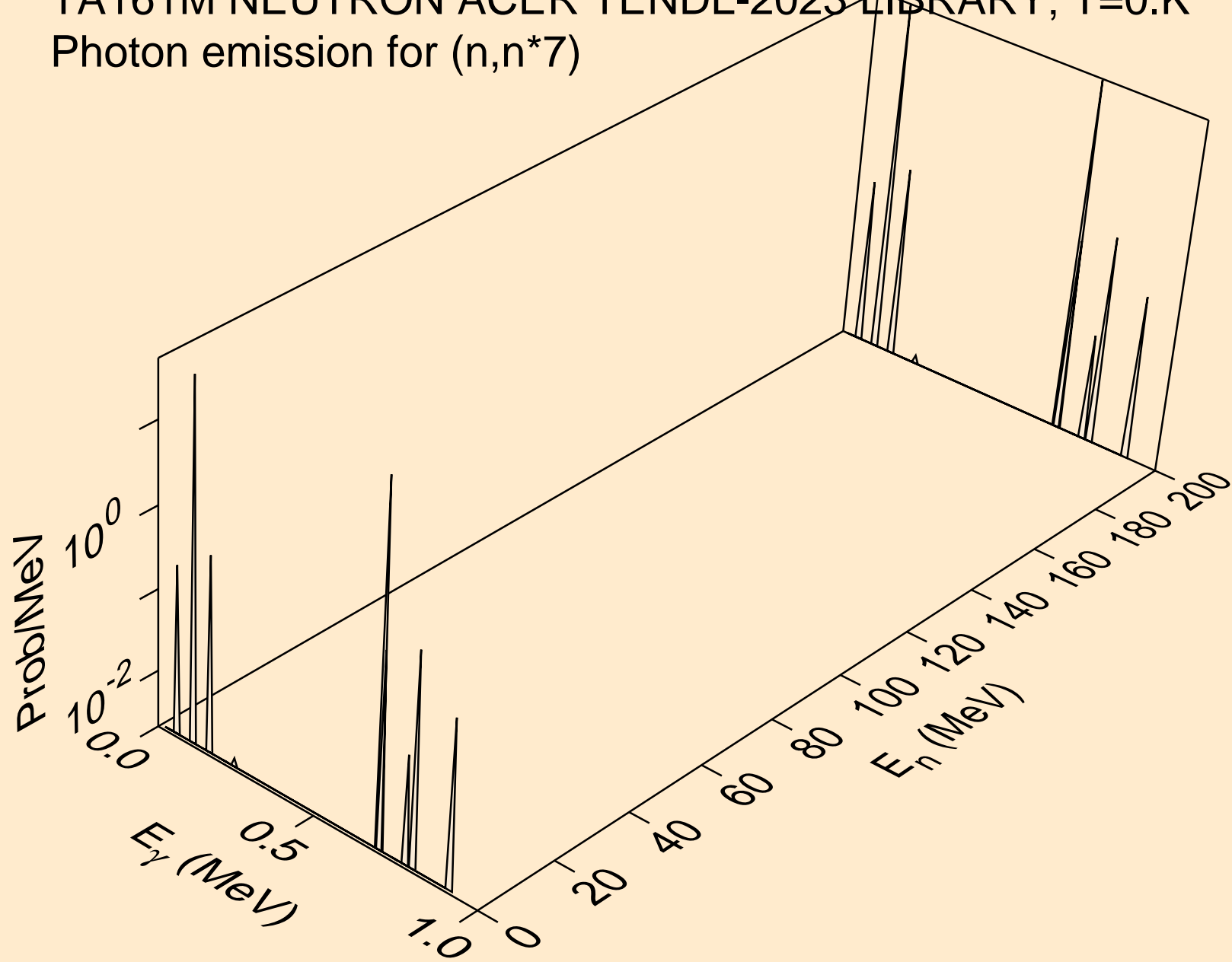




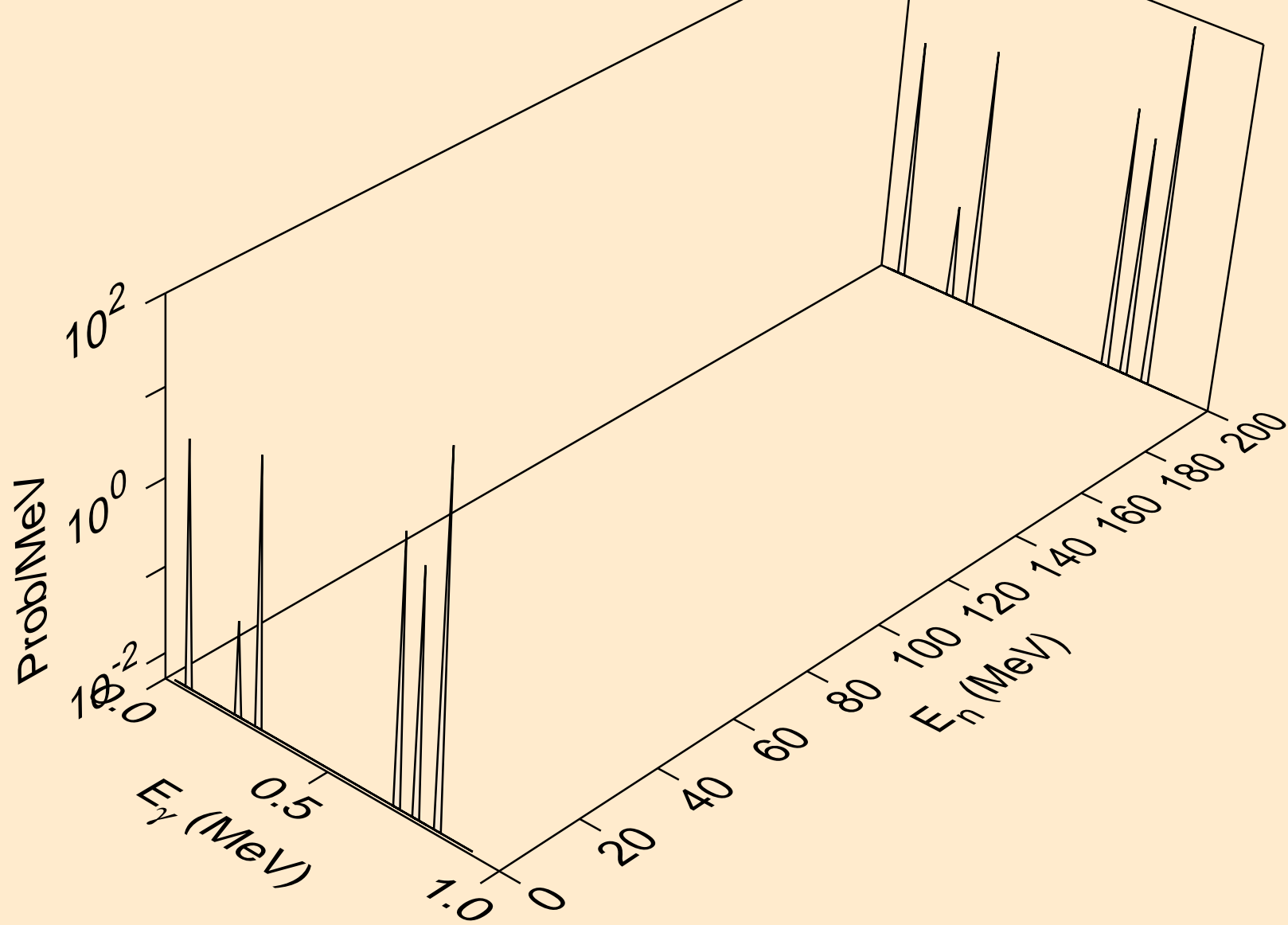
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Photon emission for (n,n\*6)



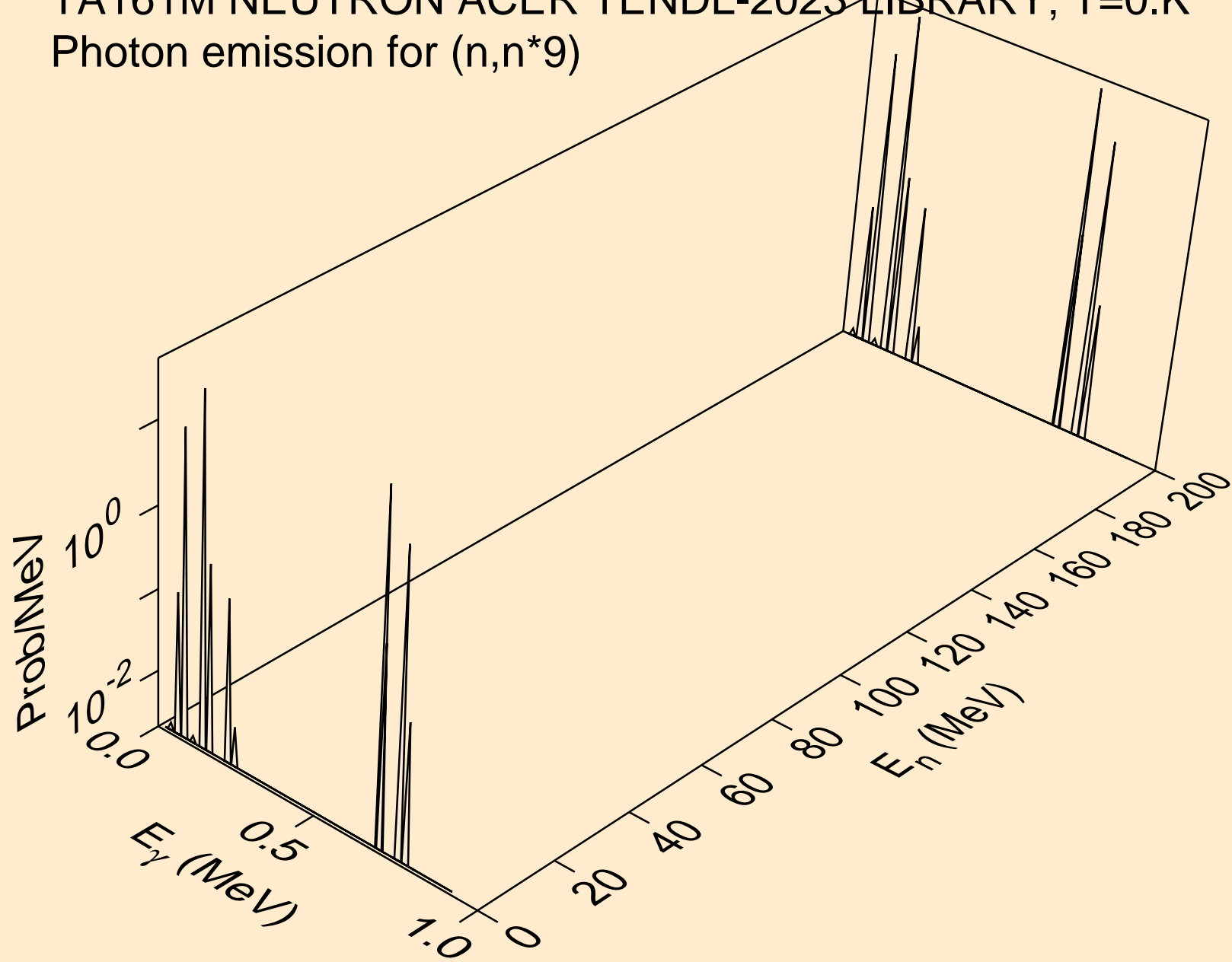
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Photon emission for (n,n\*7)



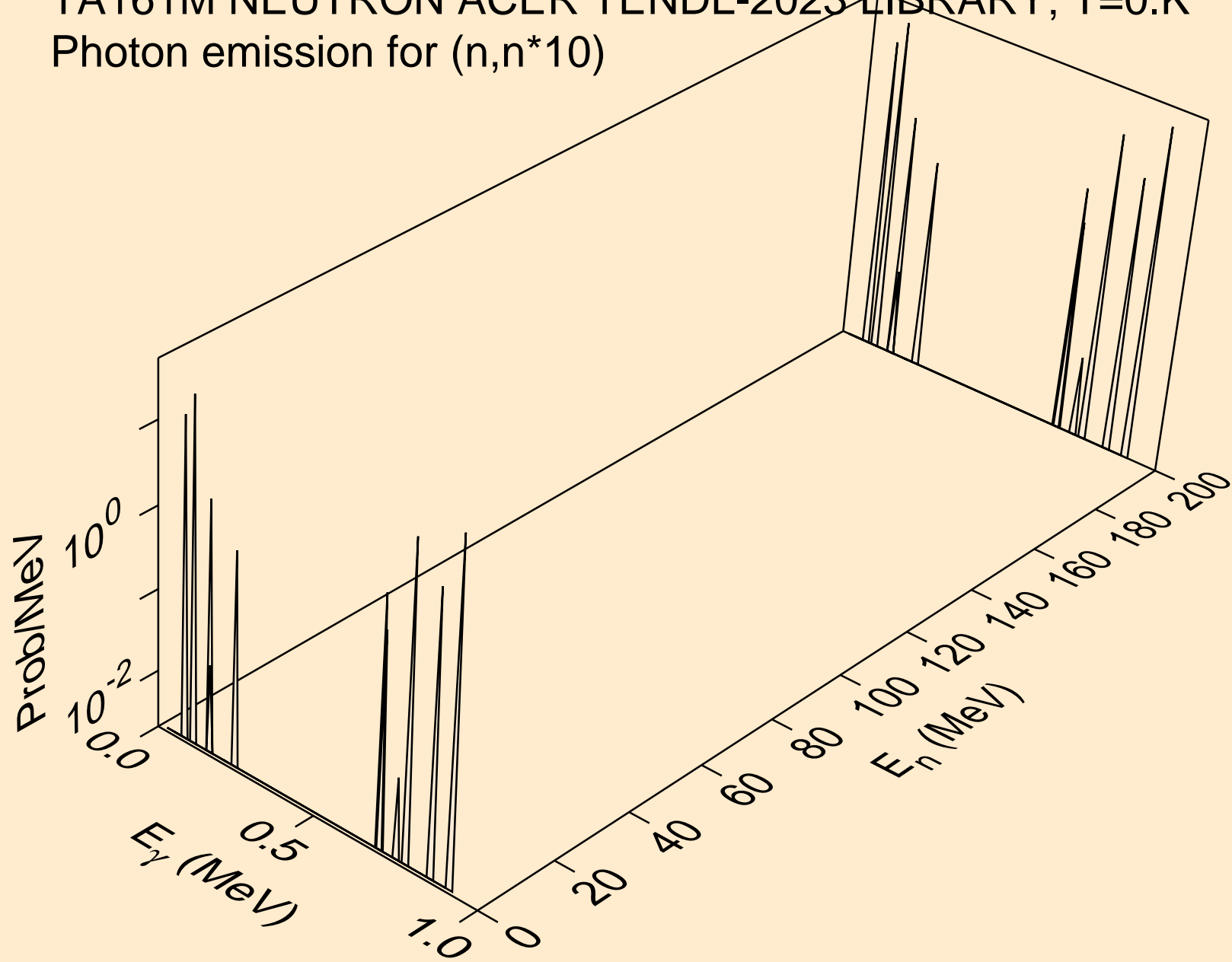
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Photon emission for (n,n\*8)



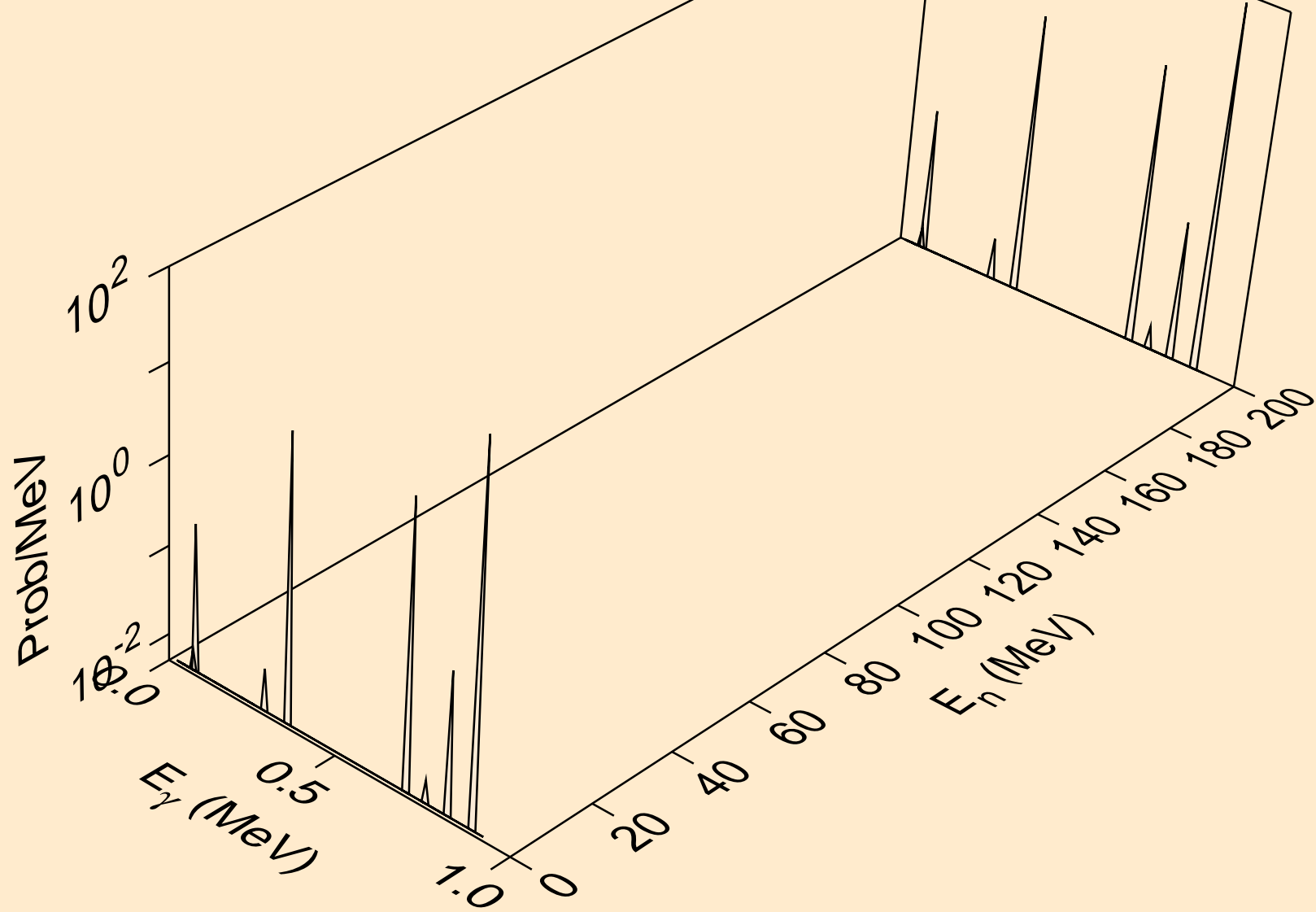
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Photon emission for (n,n\*9)



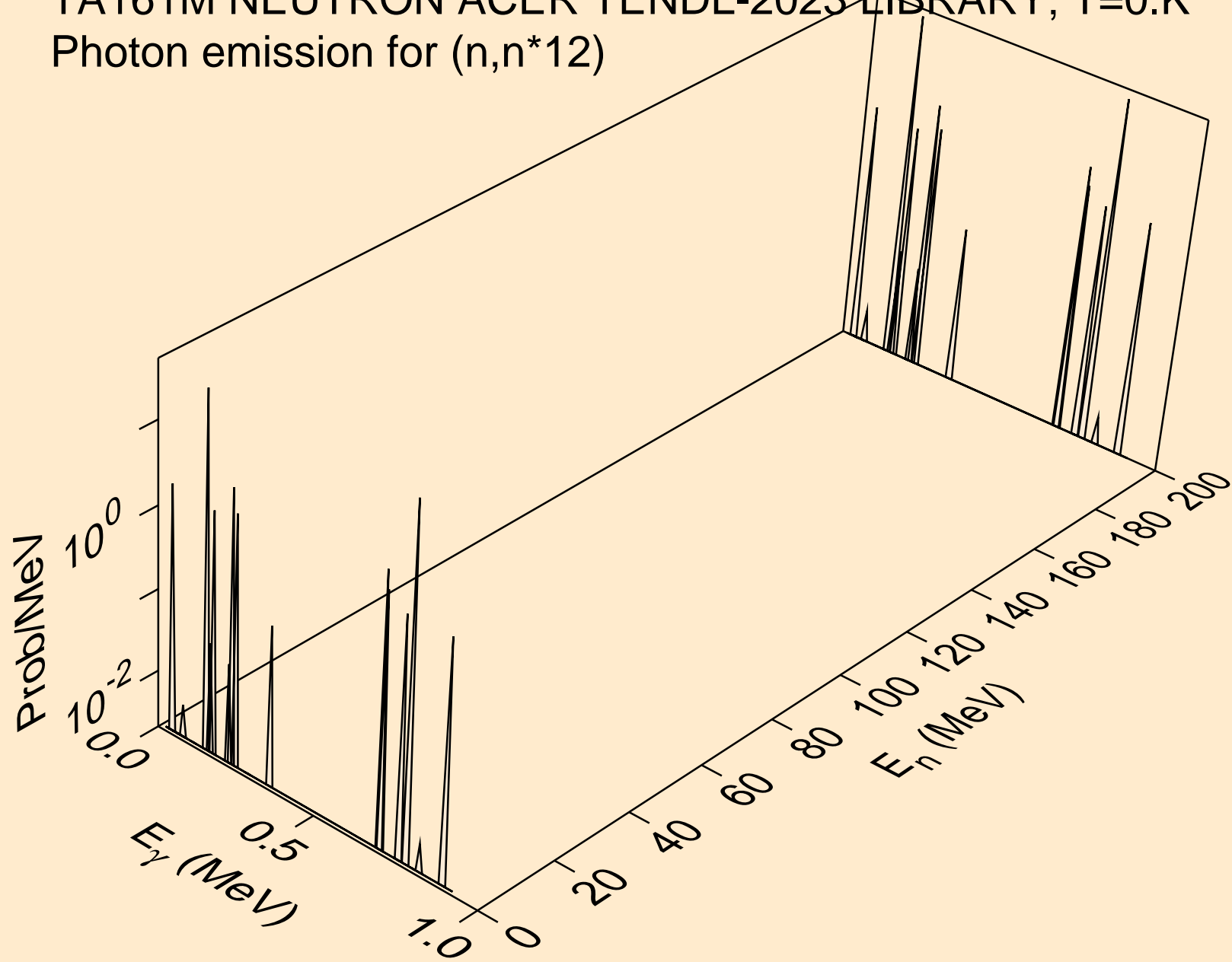
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Photon emission for (n,n\*10)



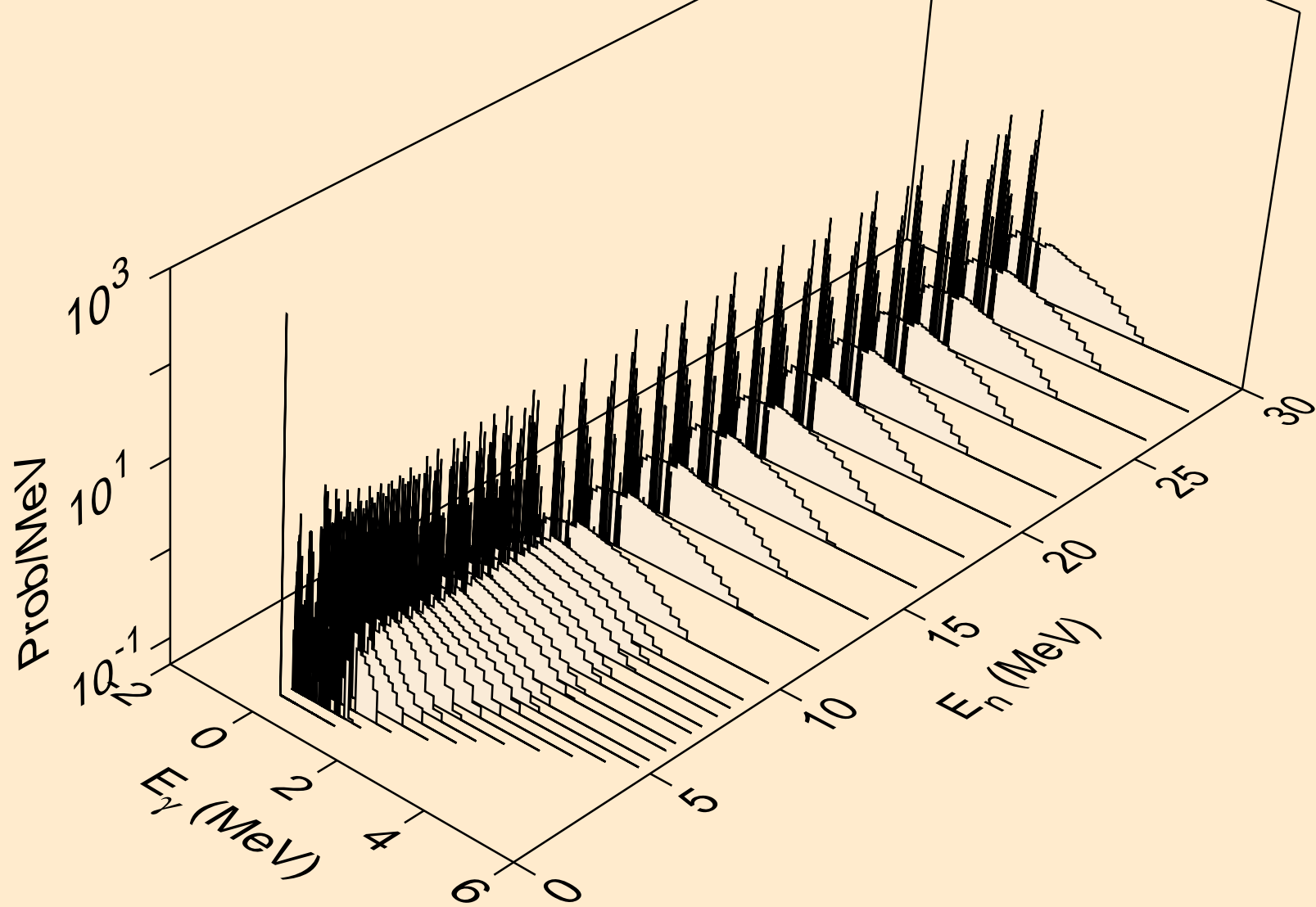
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*11)



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*12)

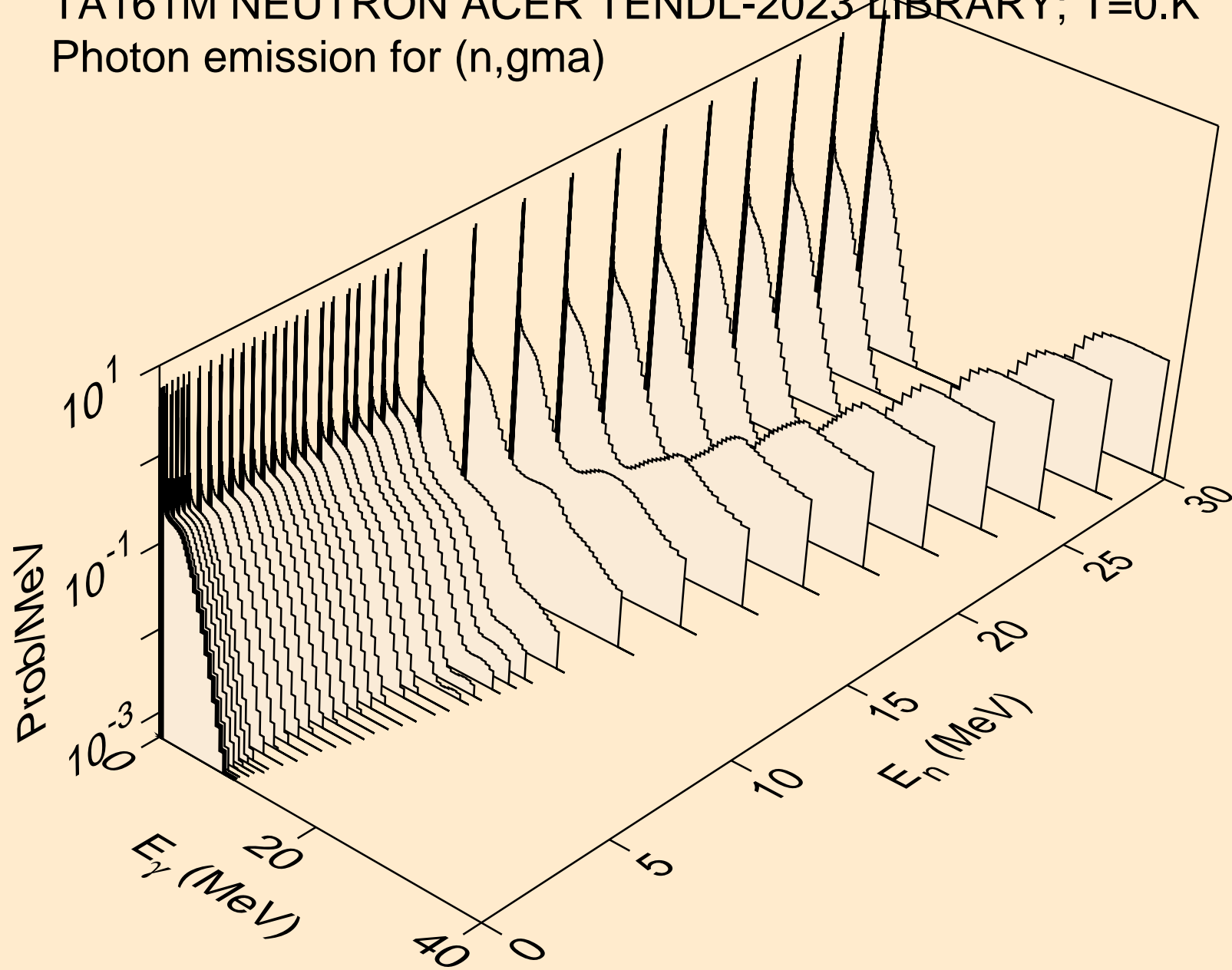


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Photon emission for (n,n\*c)

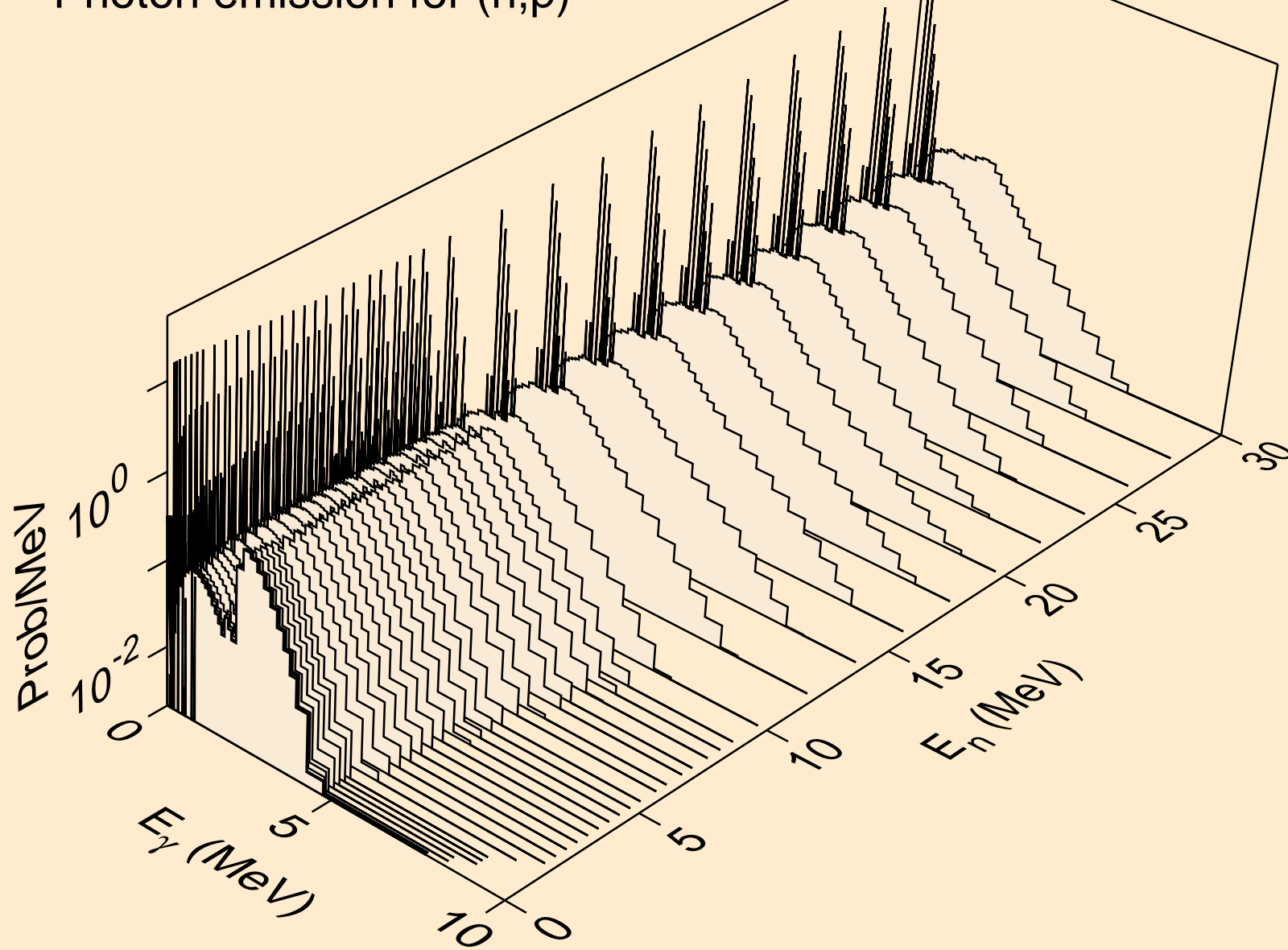




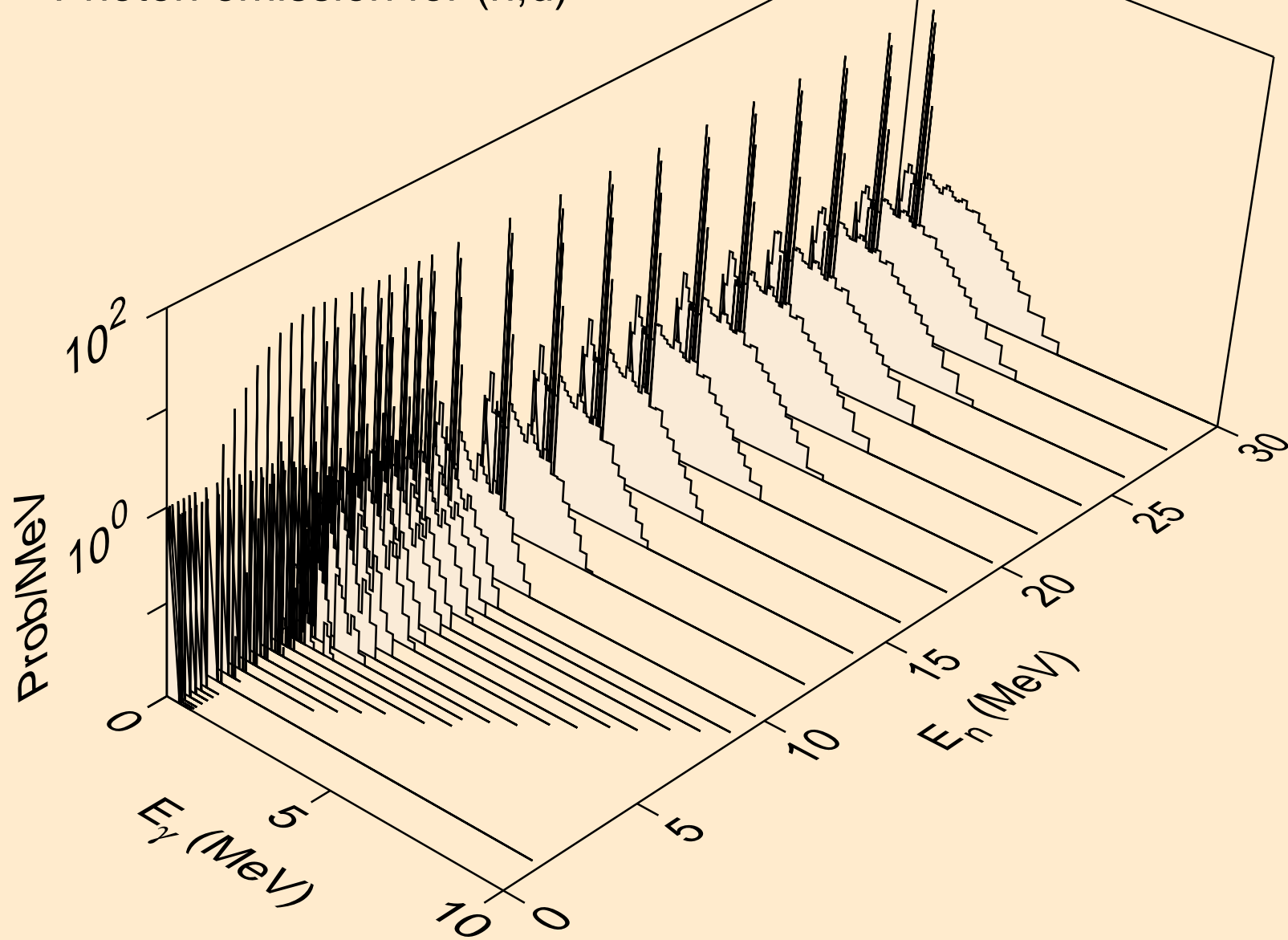
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Photon emission for (n,gma)



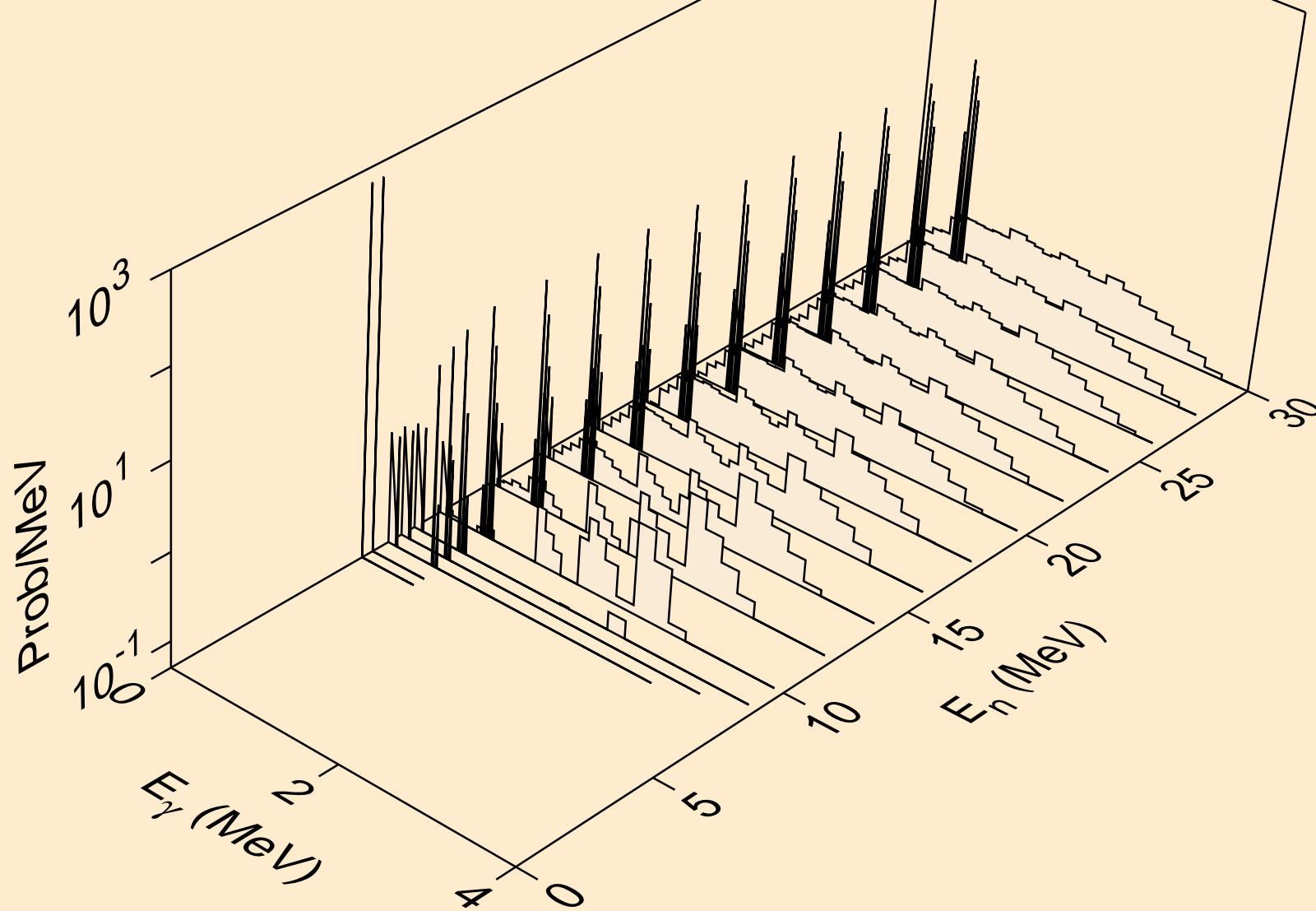
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Photon emission for (n,p)



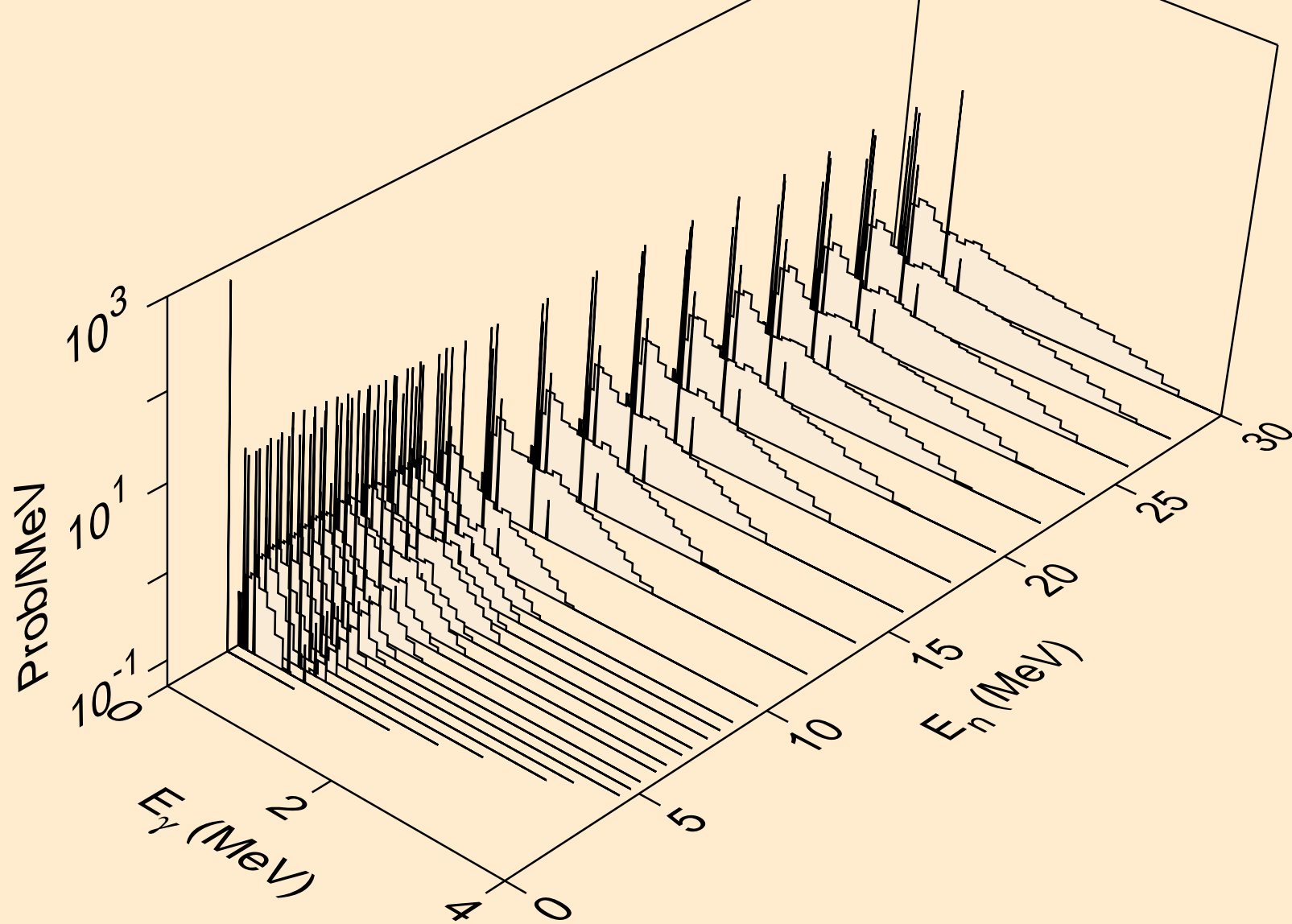
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Photon emission for (n,d)



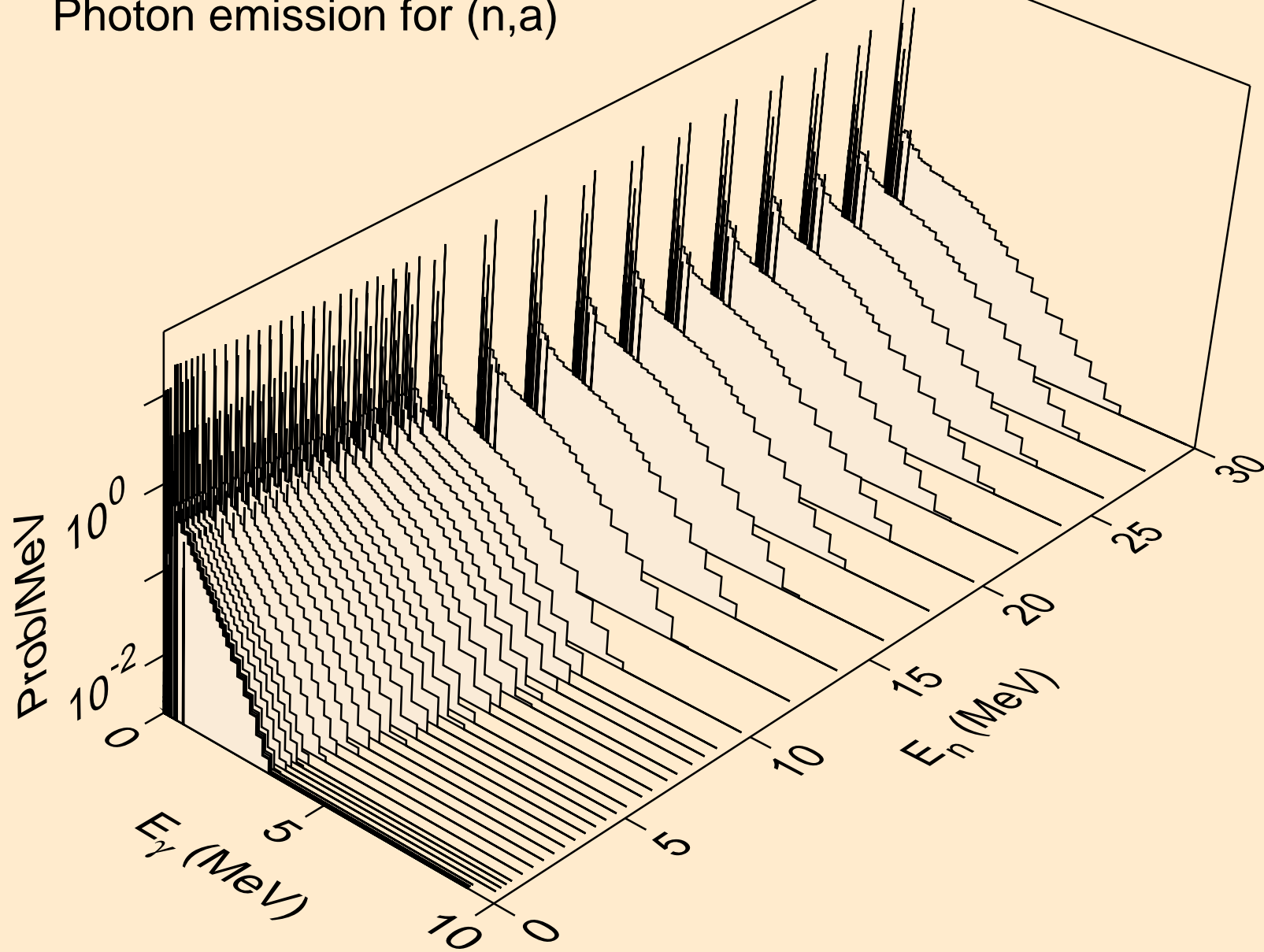
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Photon emission for (n,t)



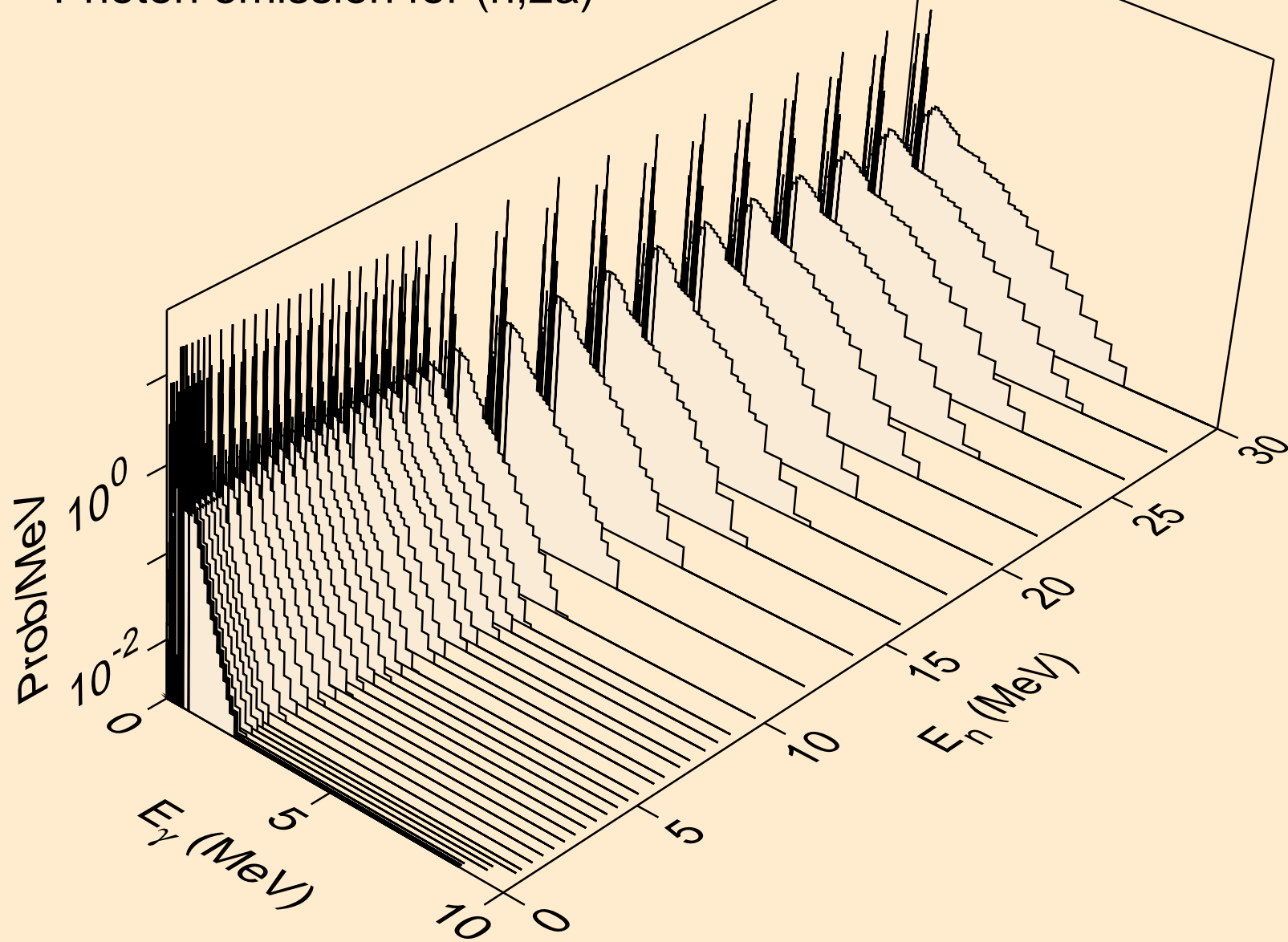
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Photon emission for (n,he3)



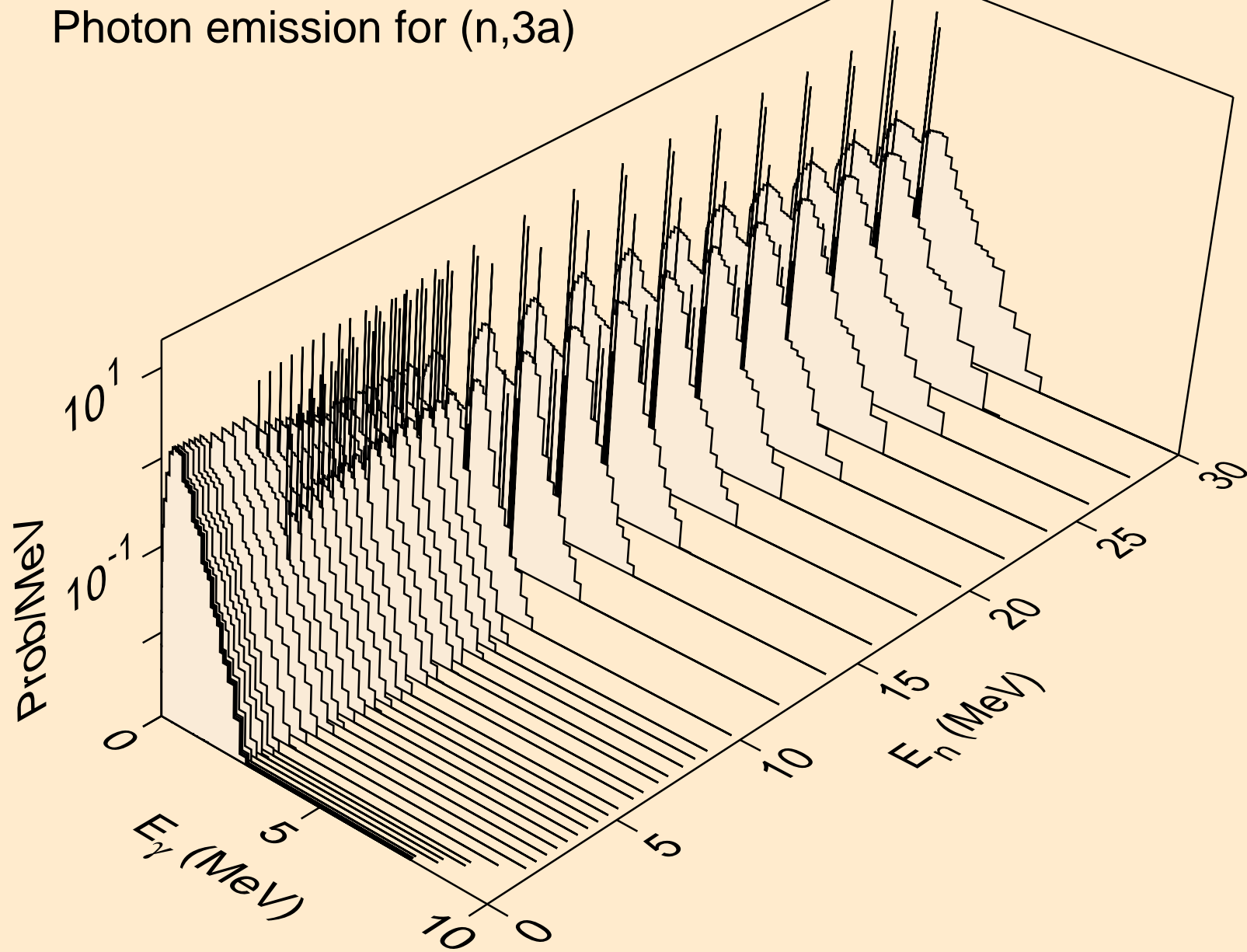
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Photon emission for (n,a)



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)

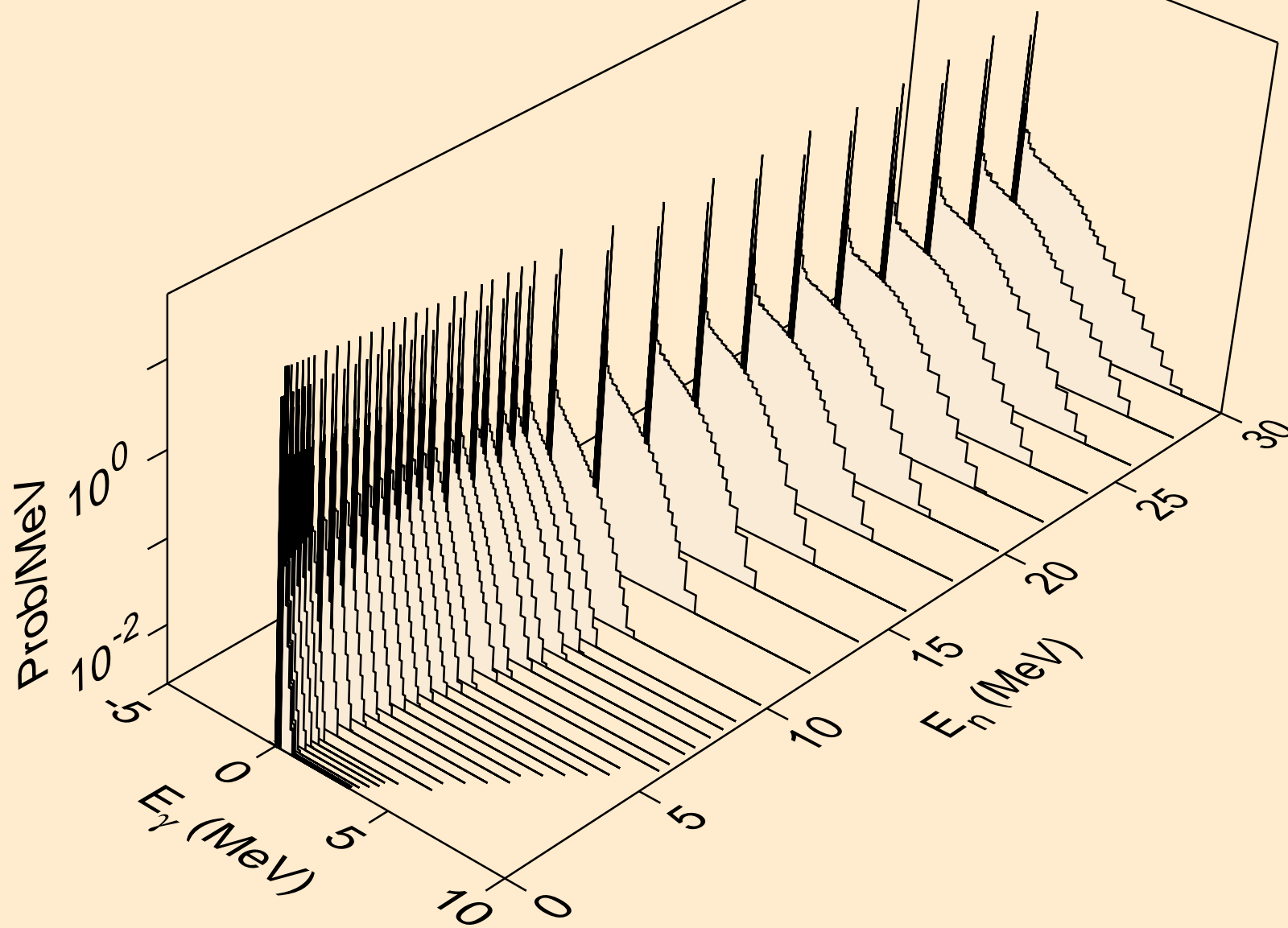


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Photon emission for (n,3a)

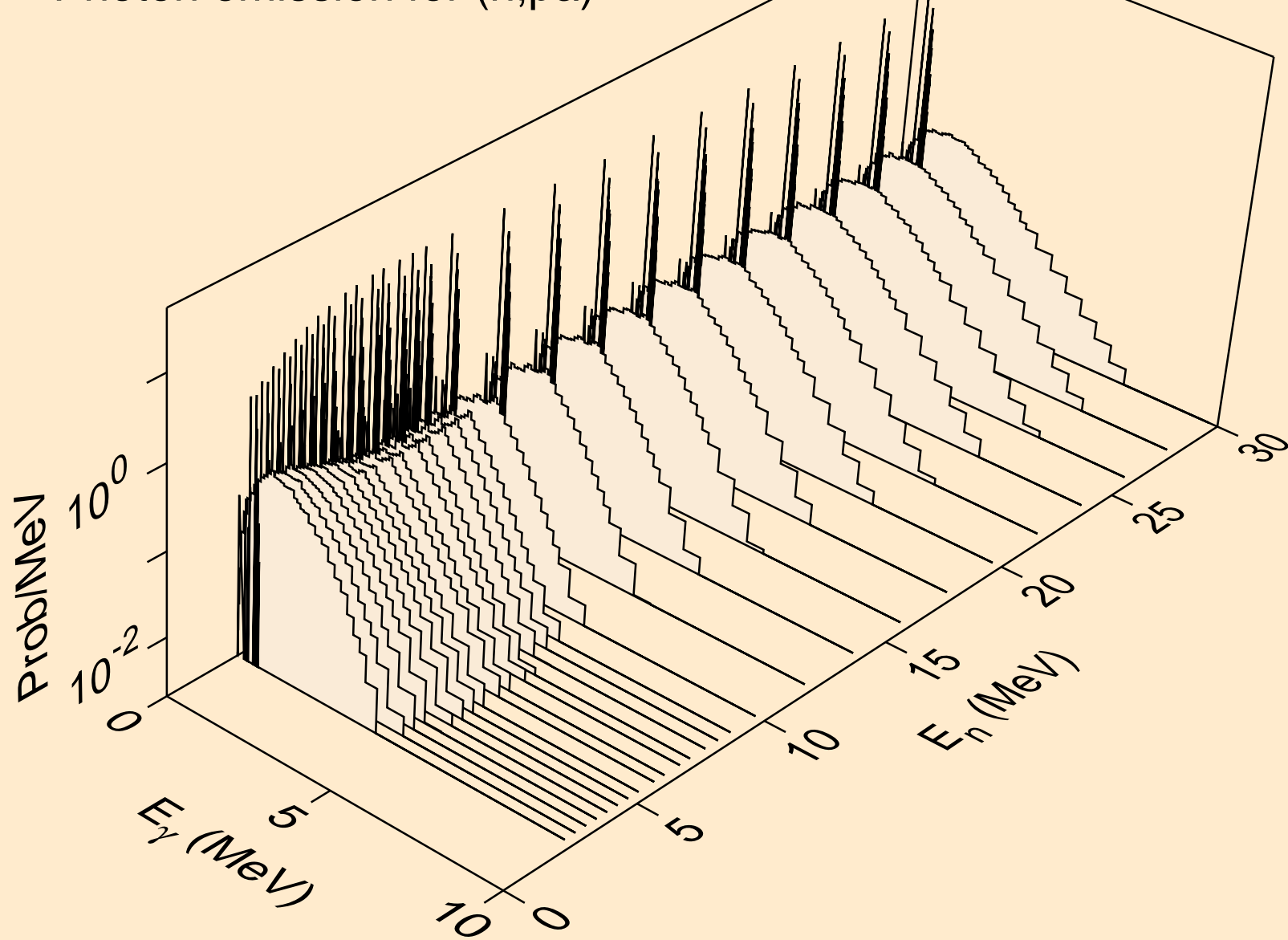




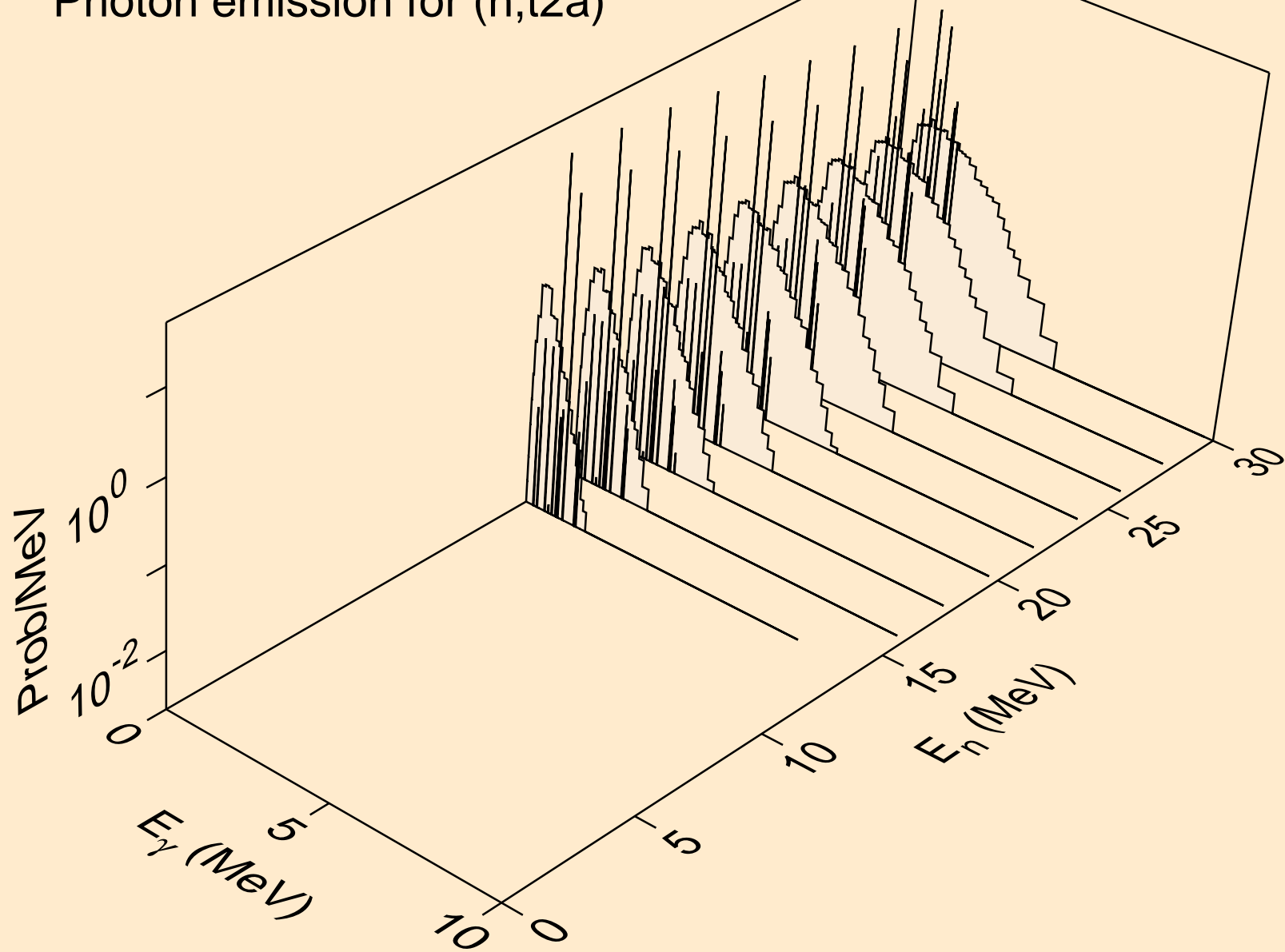
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Photon emission for (n,2p)



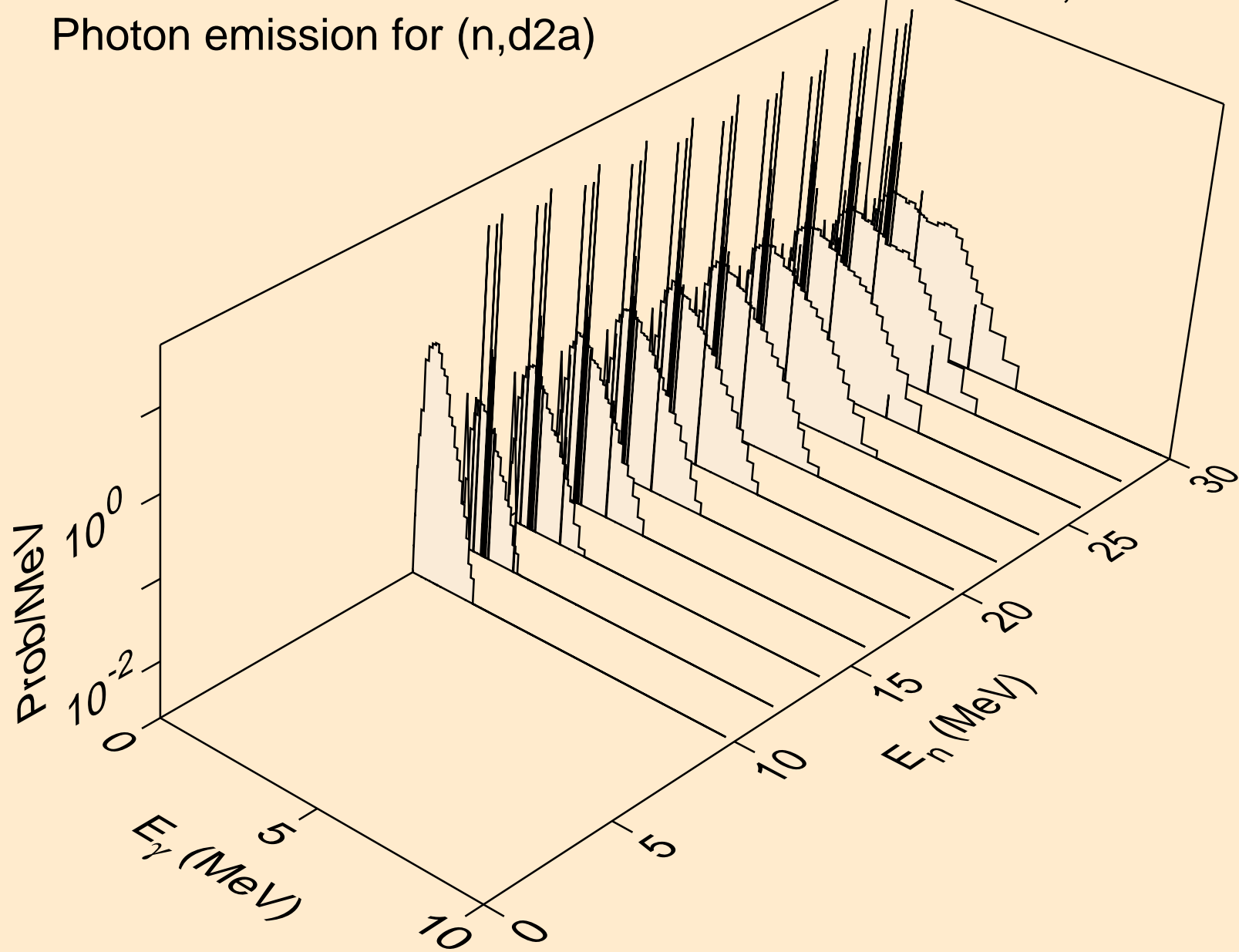
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Photon emission for (n,p)



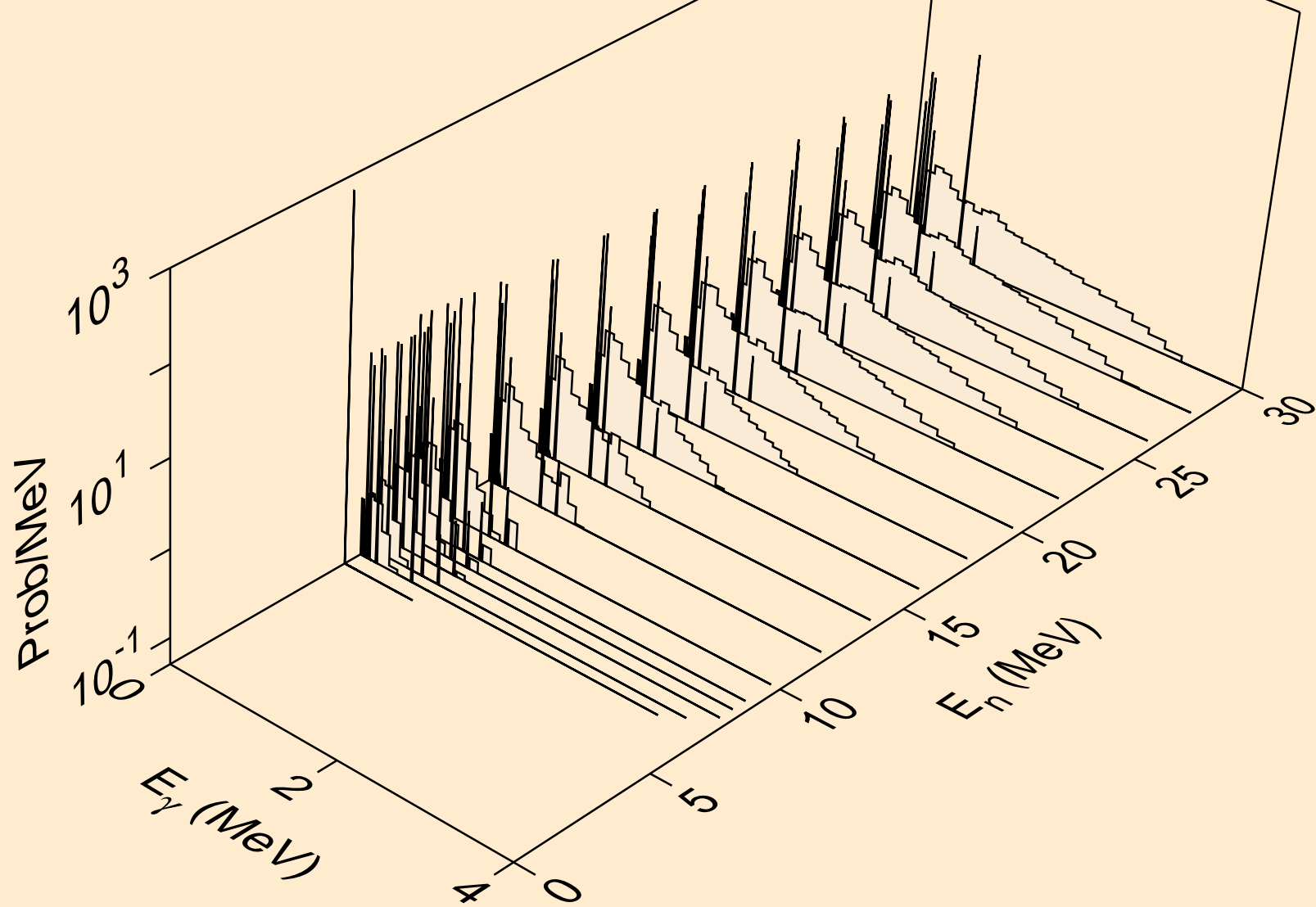
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Photon emission for (n,t2a)



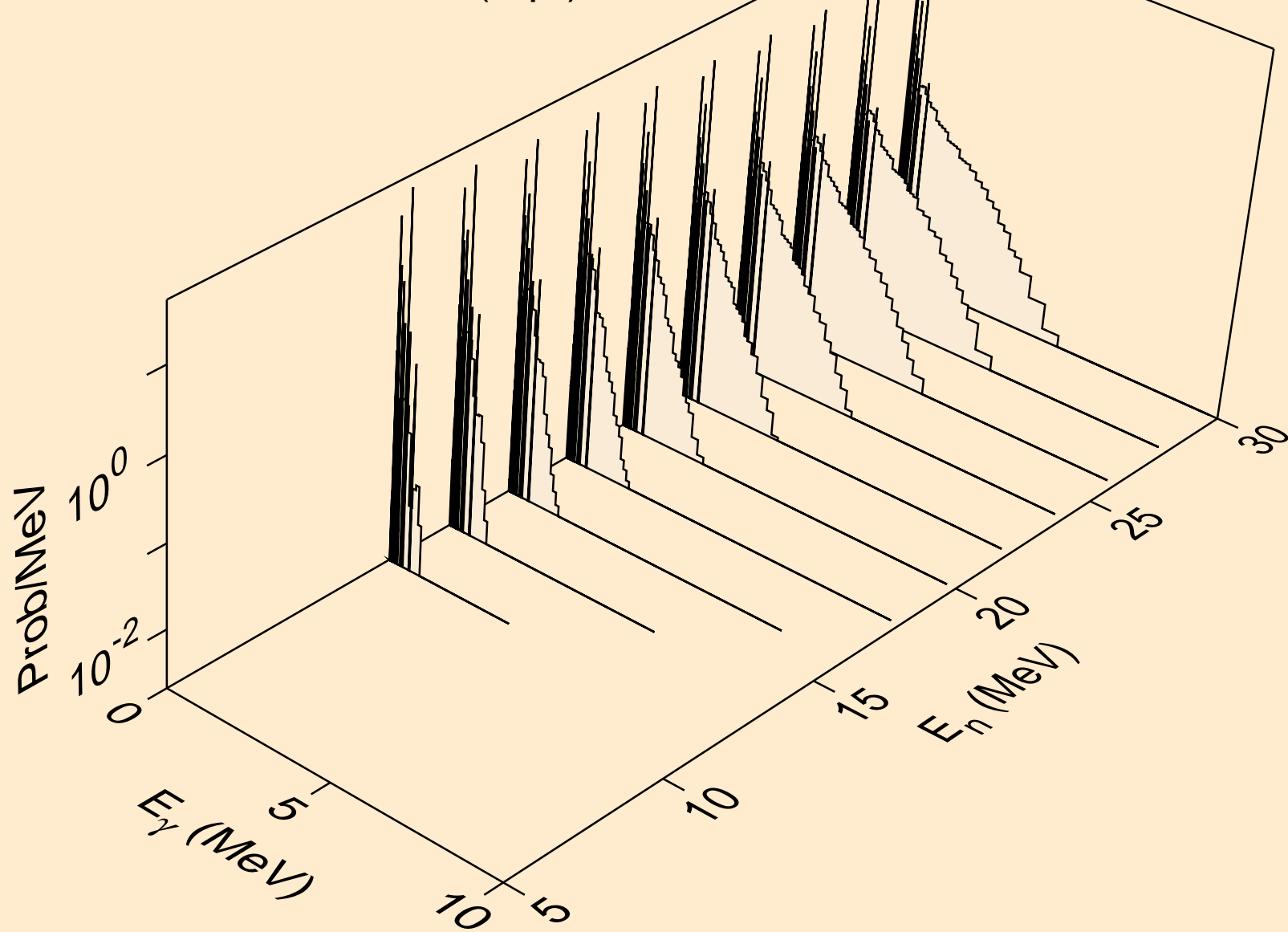
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Photon emission for (n,d2a)



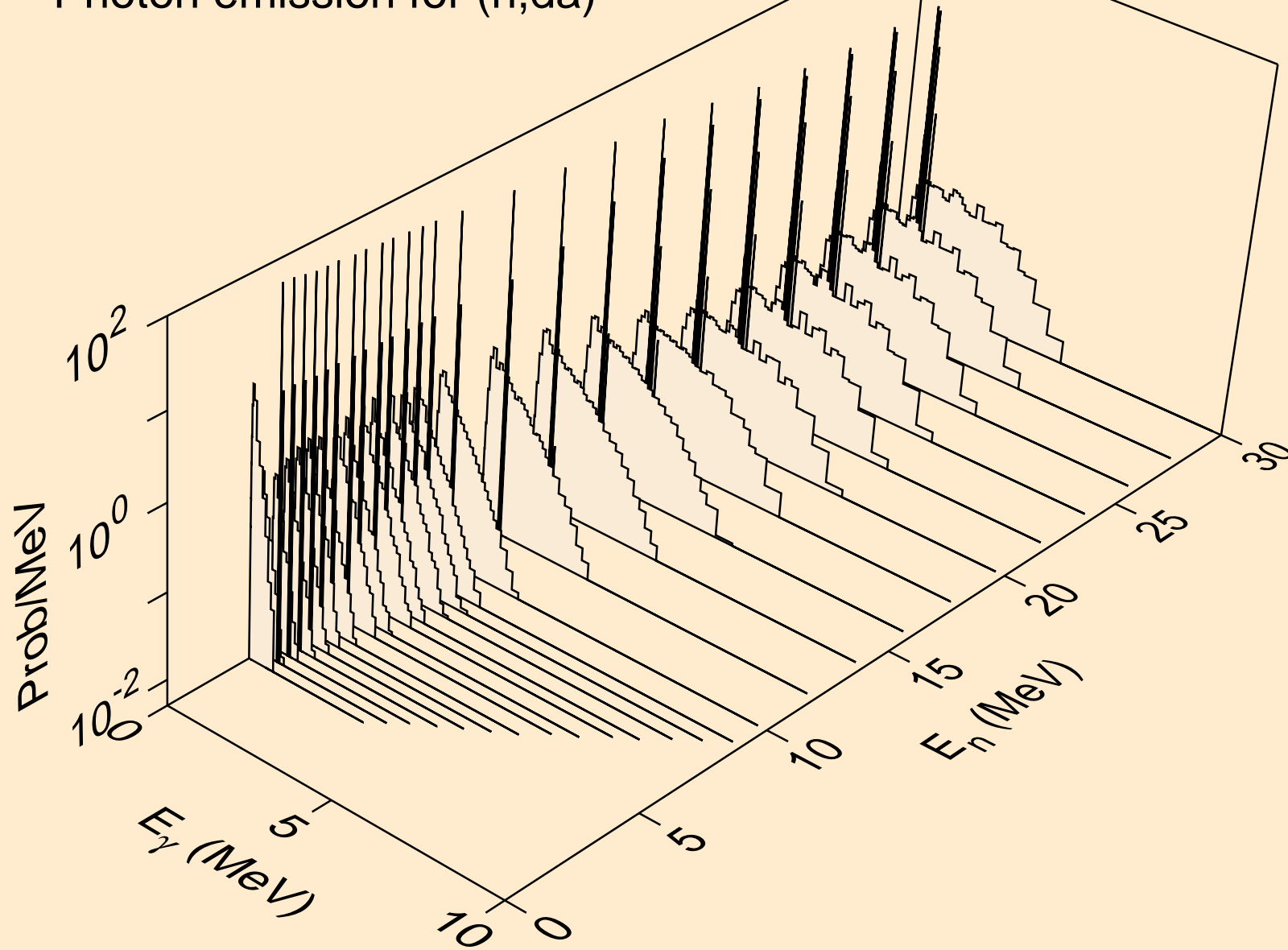
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Photon emission for (n,pd)



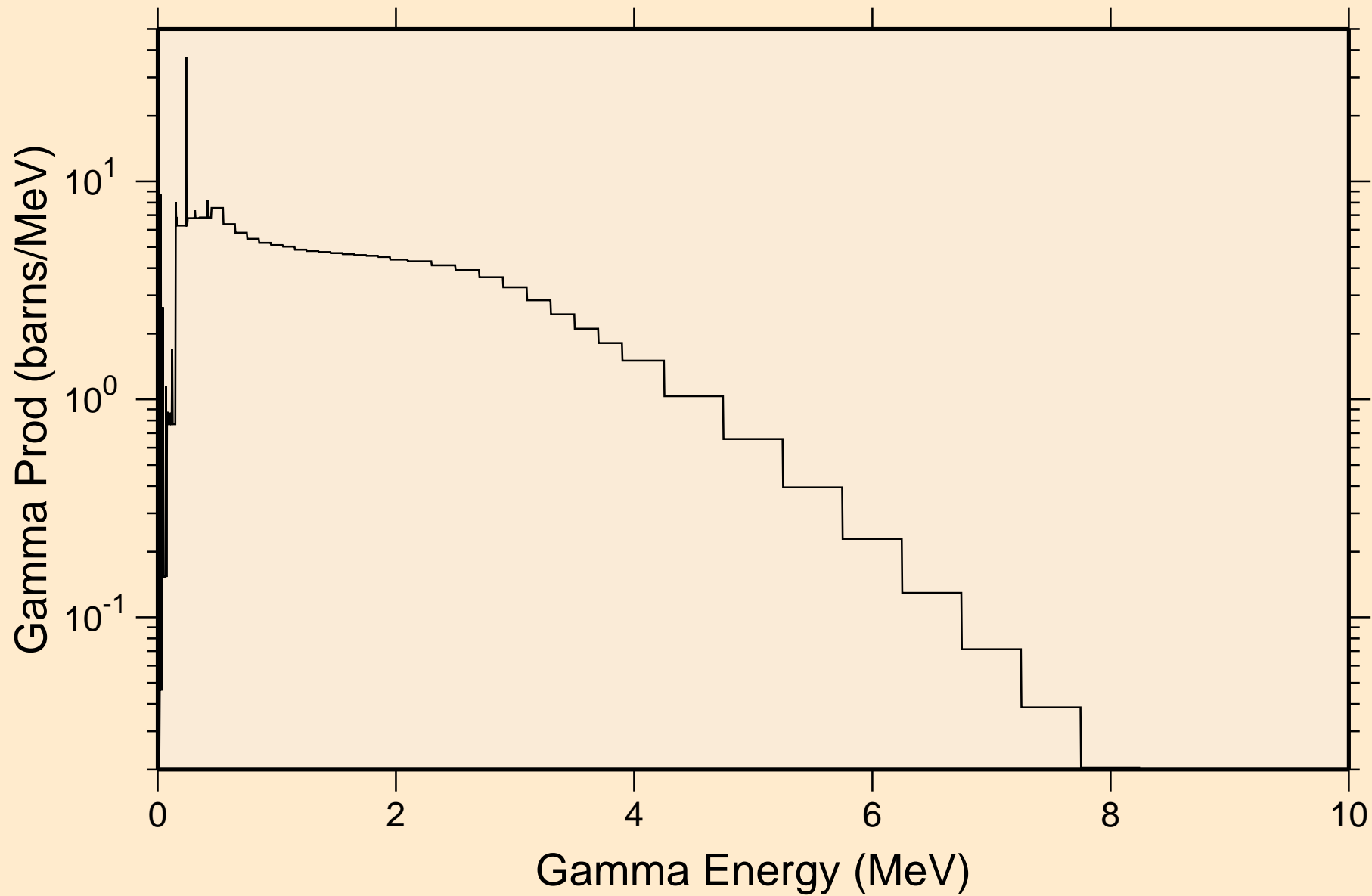
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Photon emission for (n,pt)



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

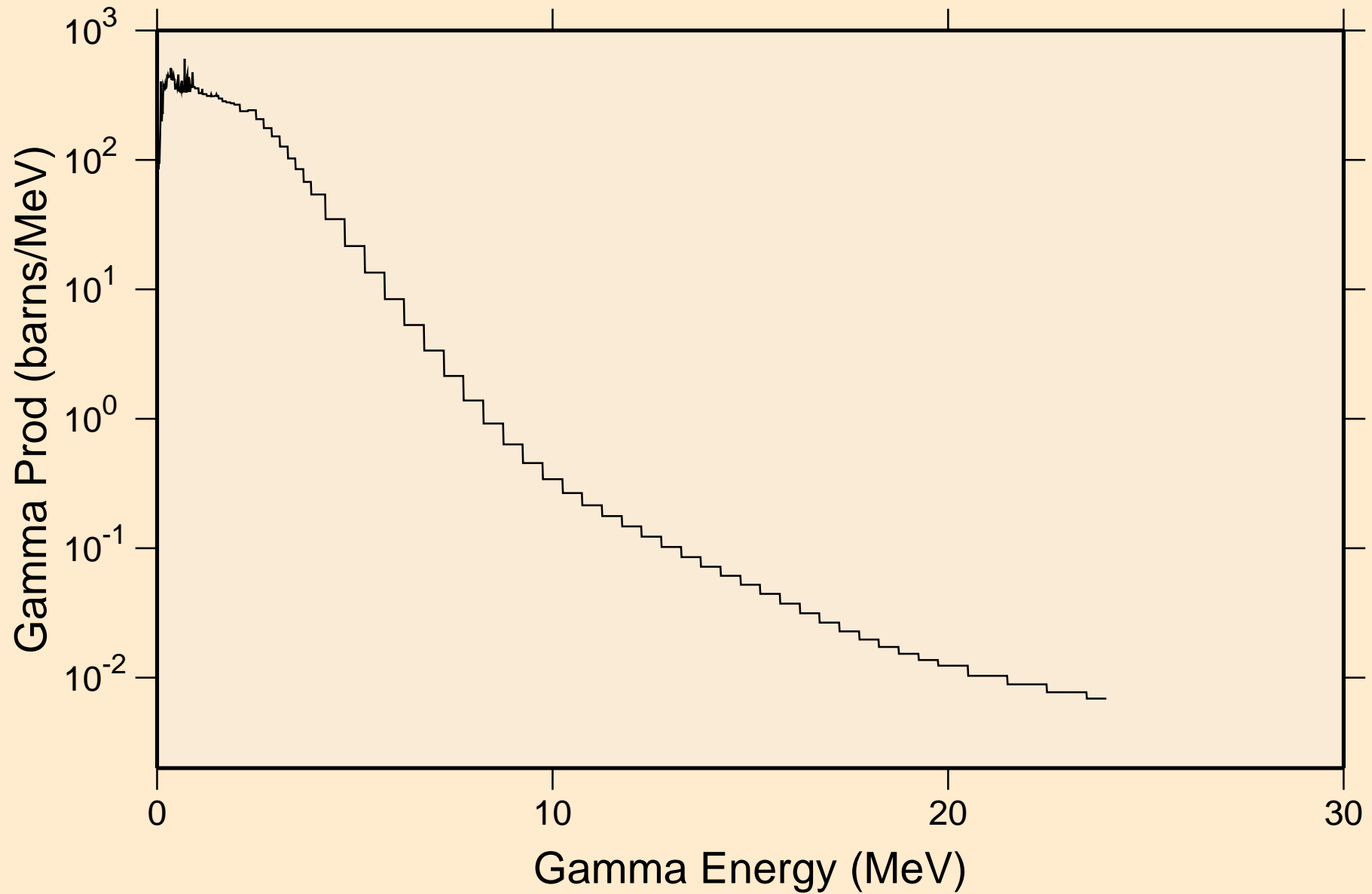


TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



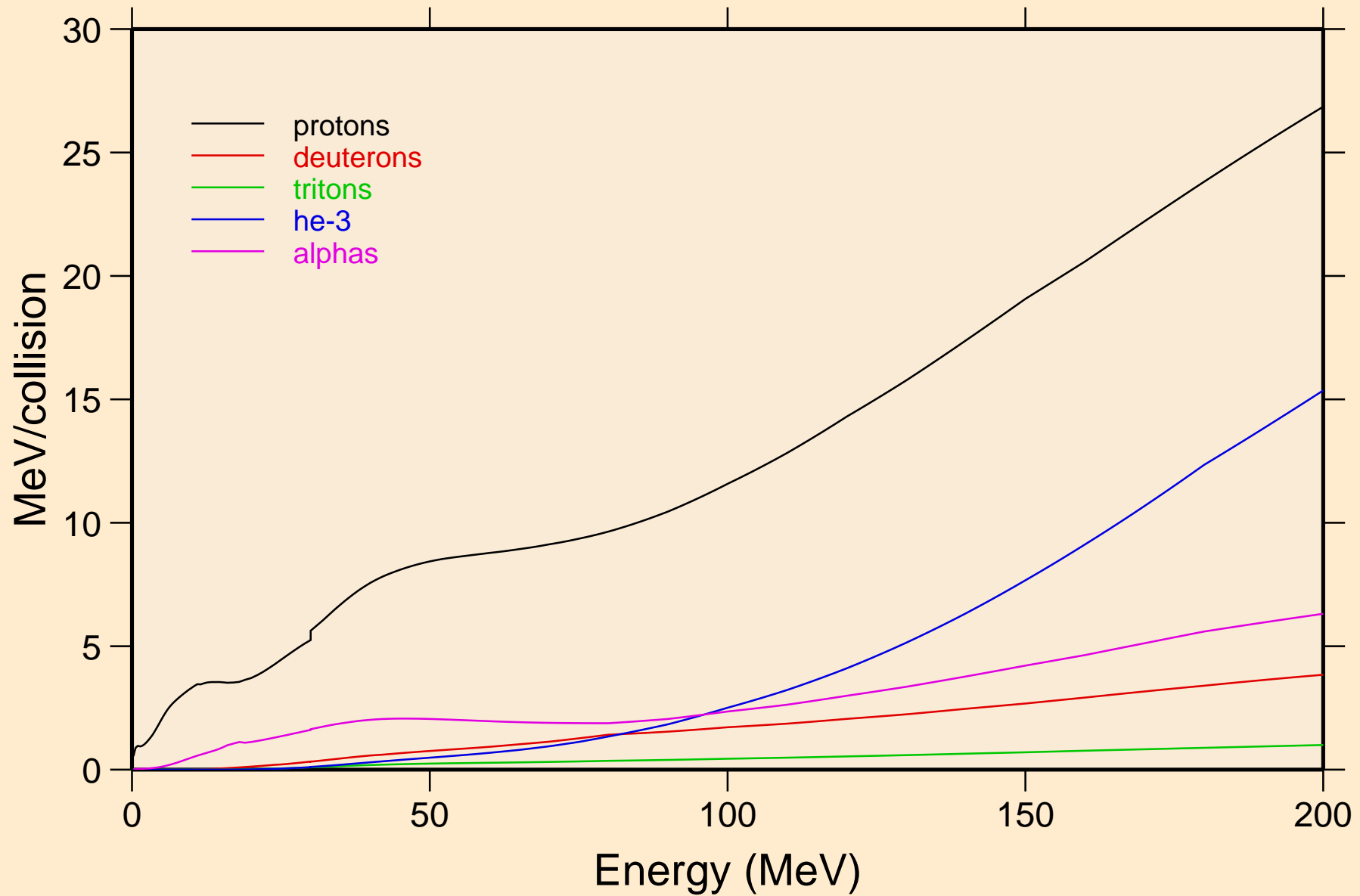


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14 MeV photon spectrum

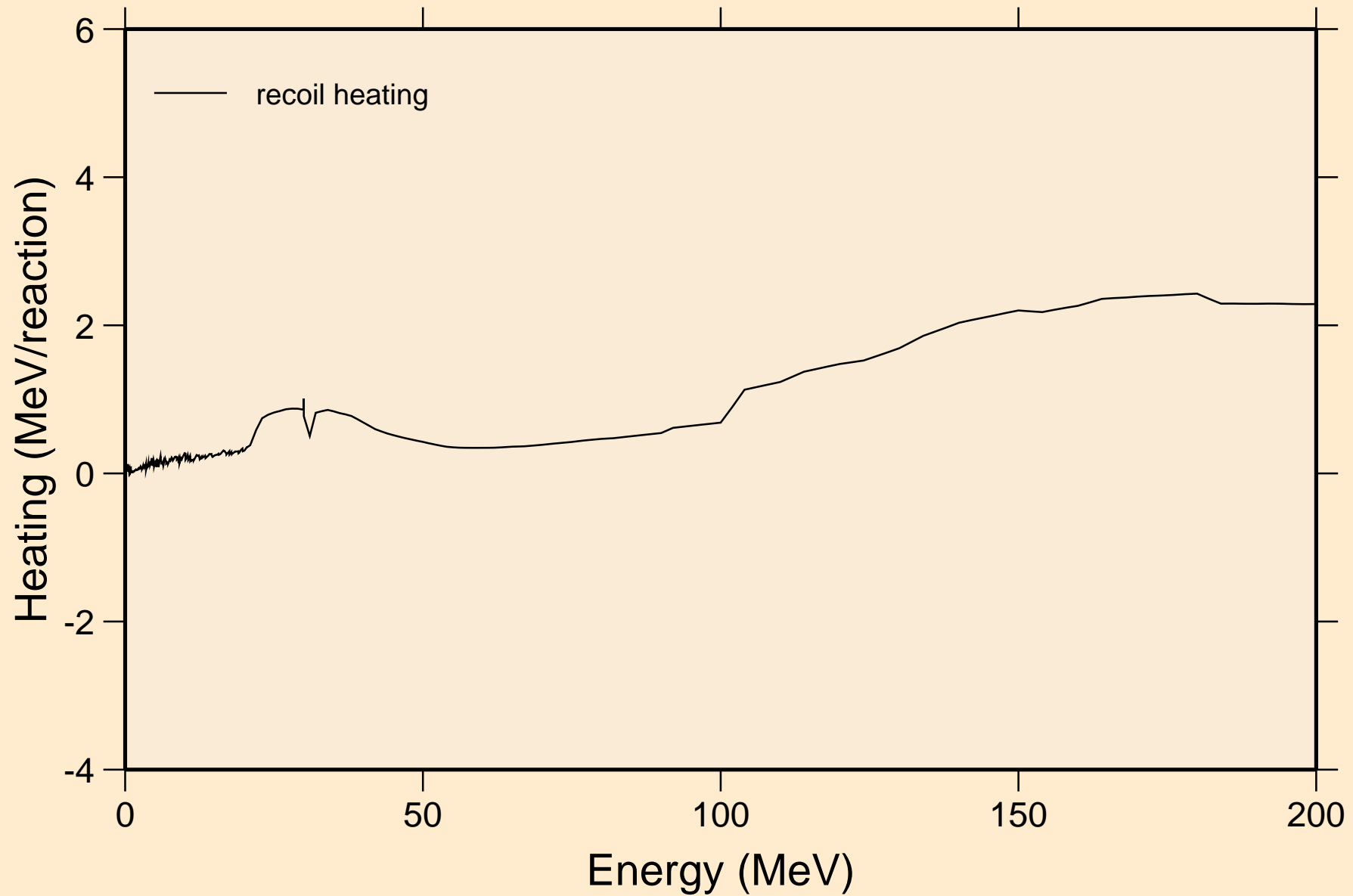


# TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

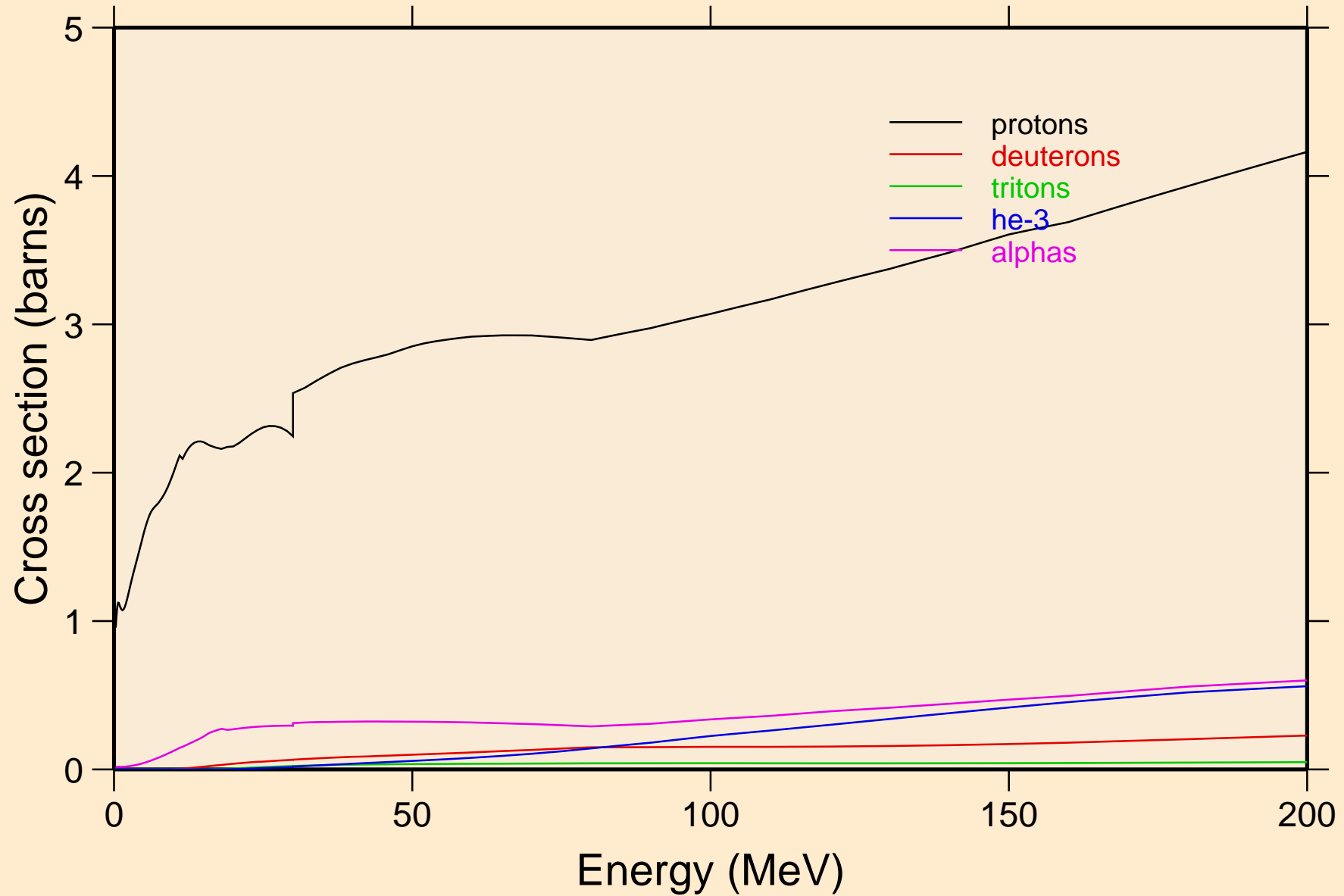
## Particle heating contributions



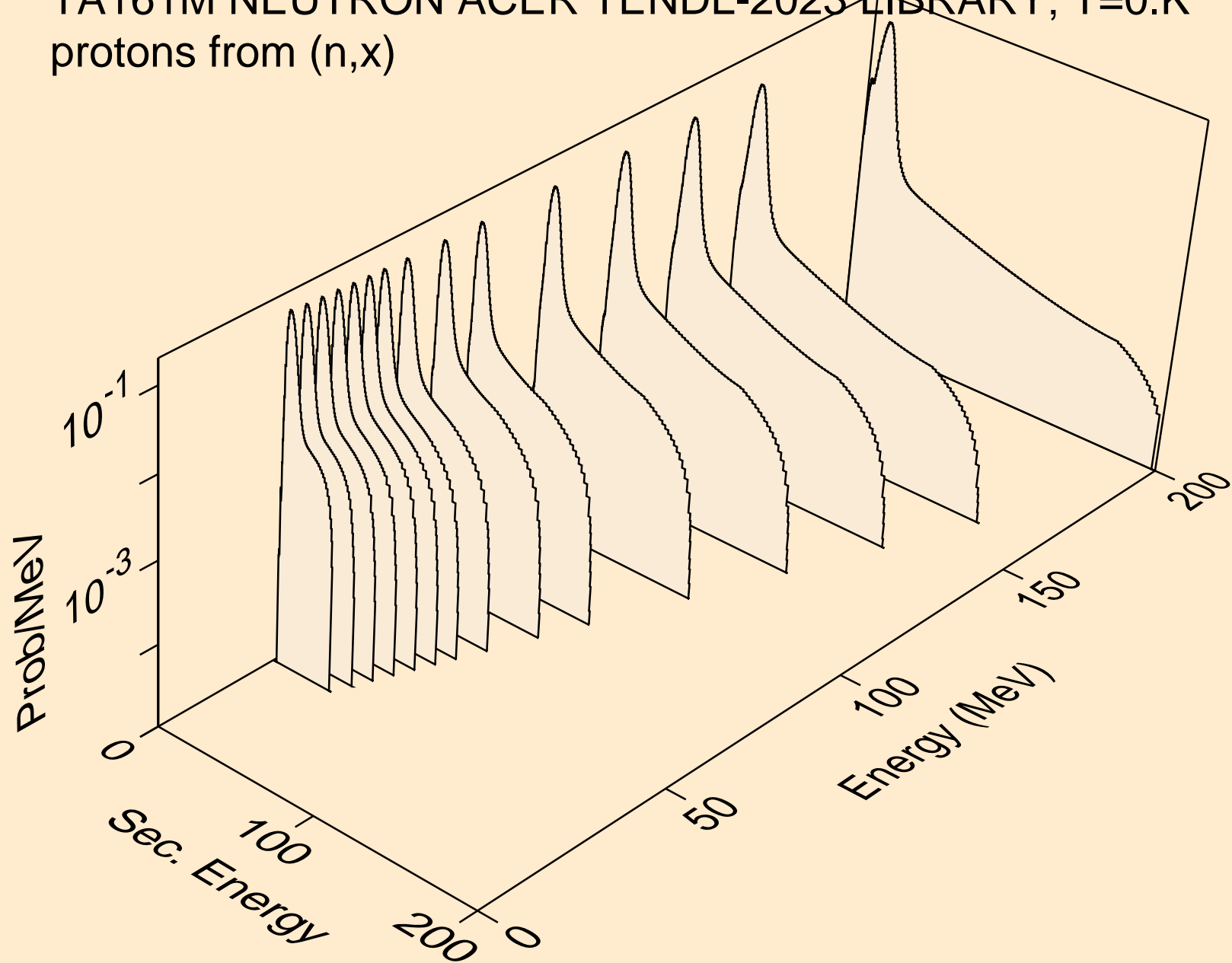
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Recoil Heating



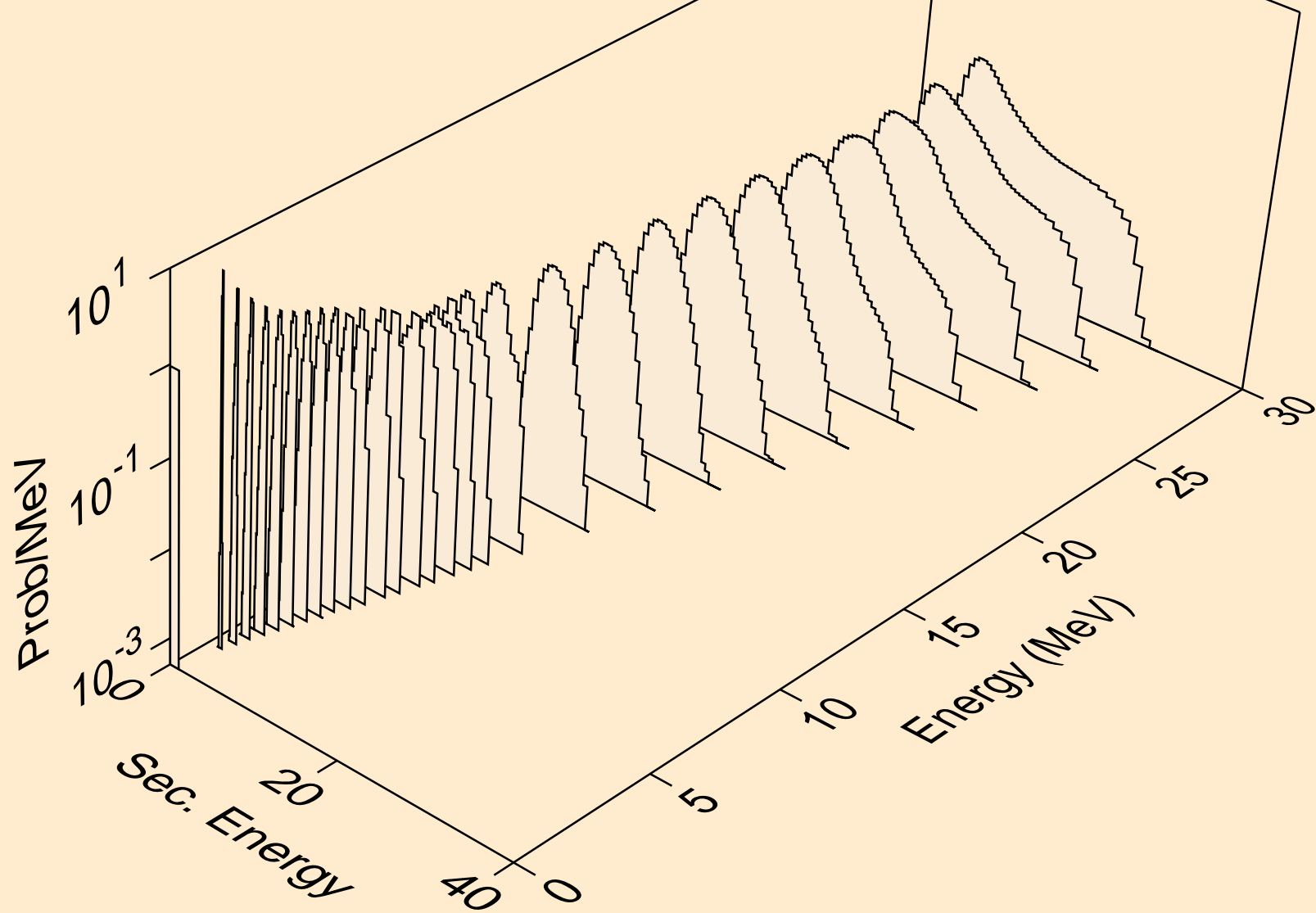
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Particle production cross sections



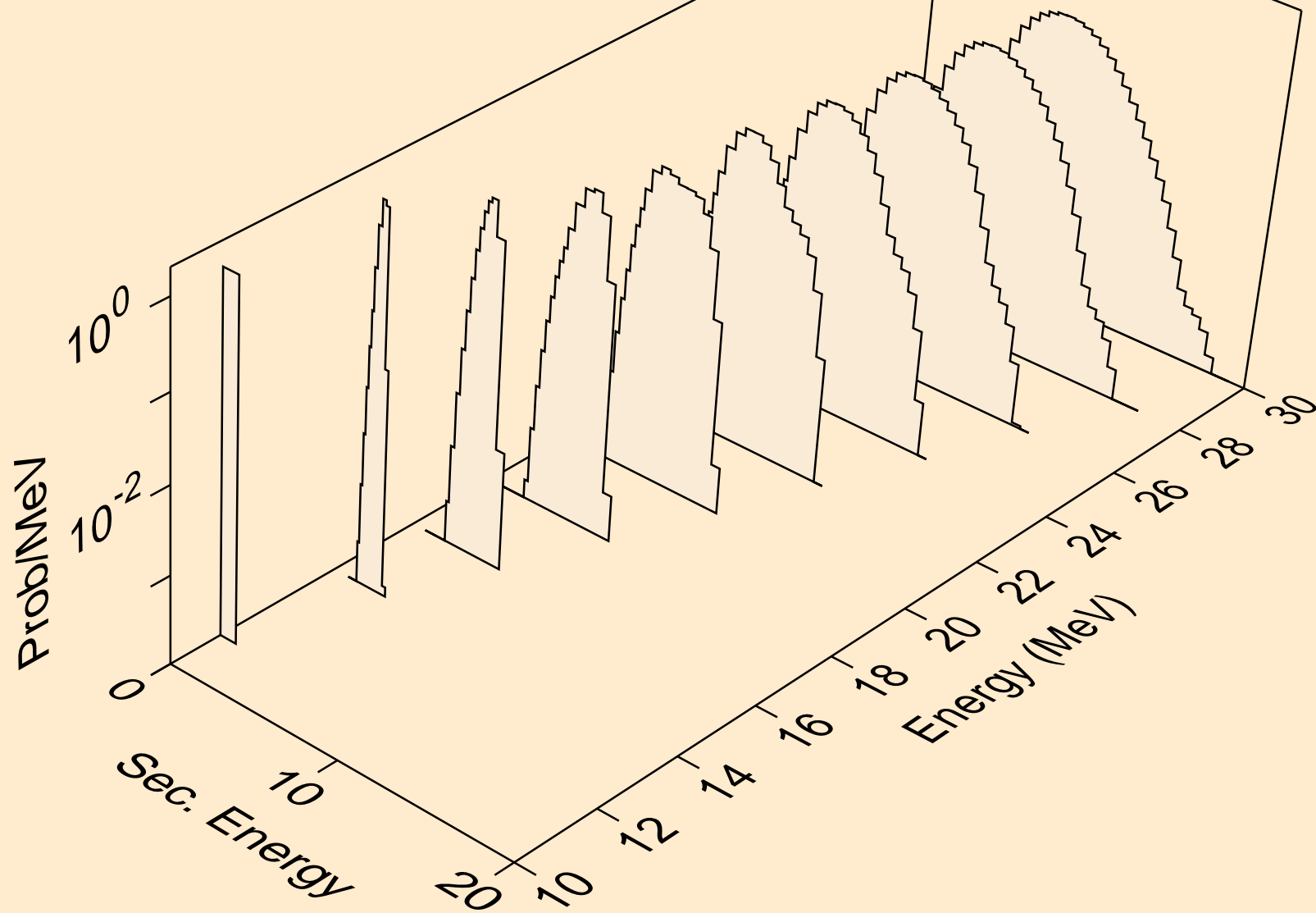
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



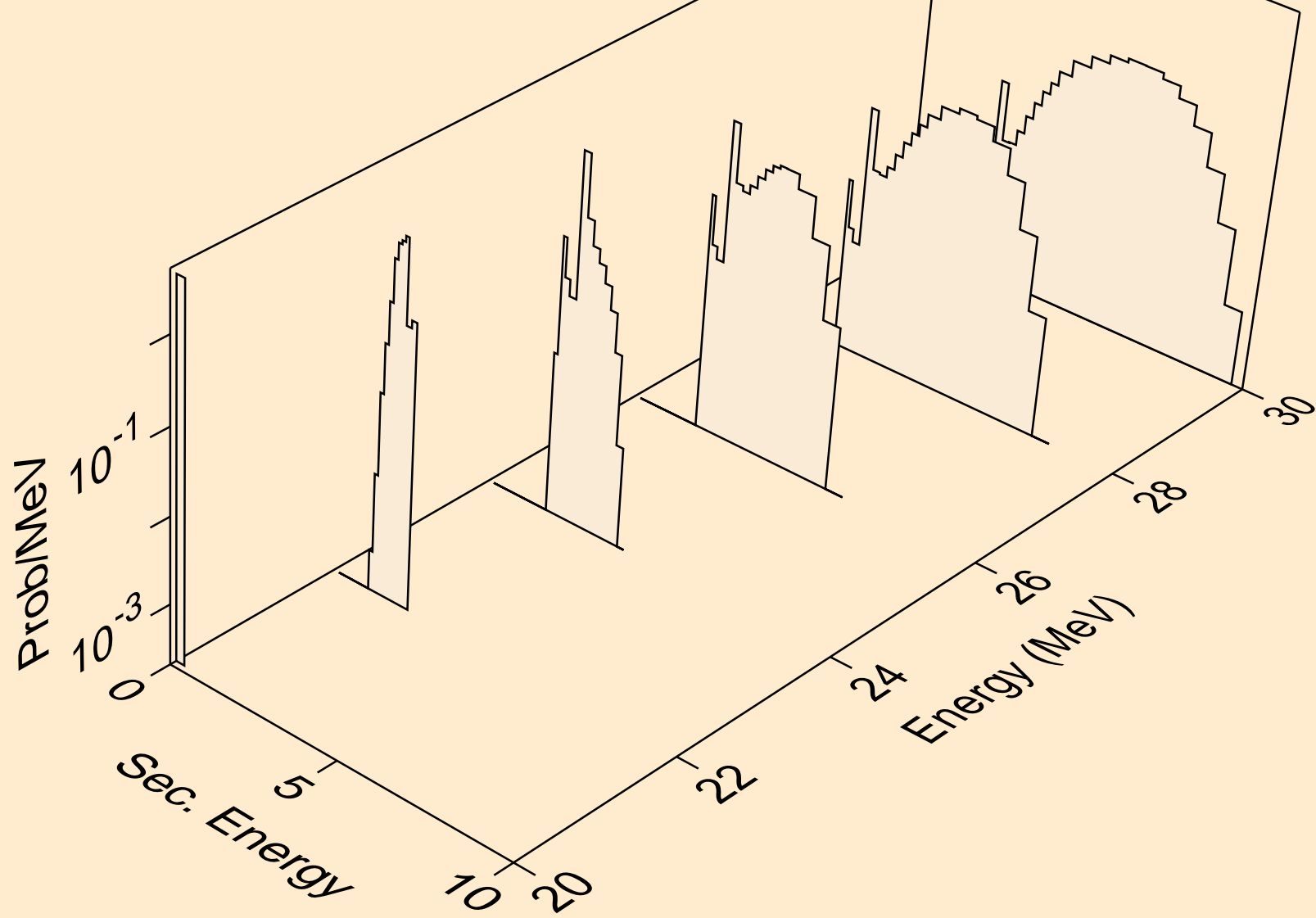
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)

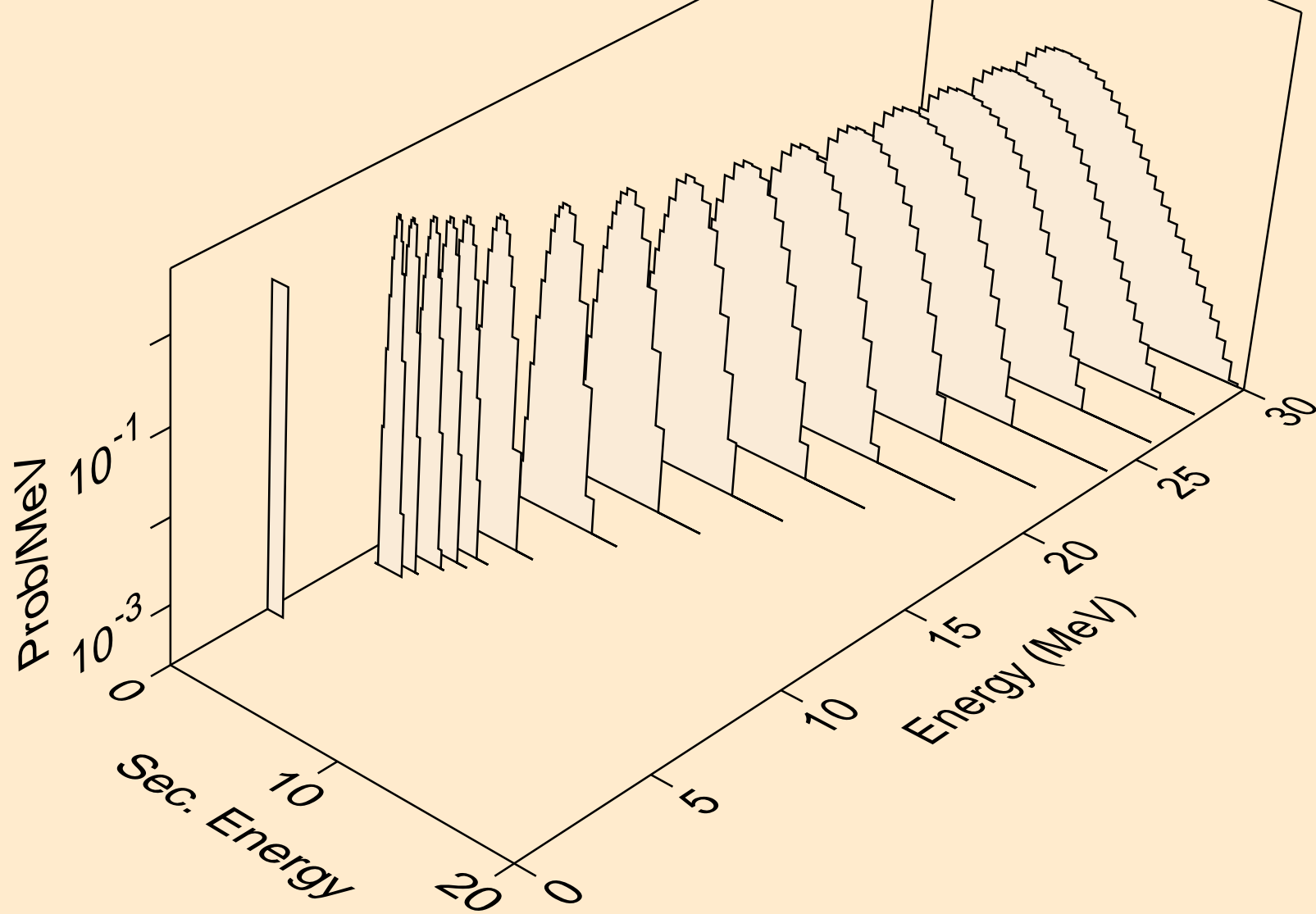


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protons from (n,3np)

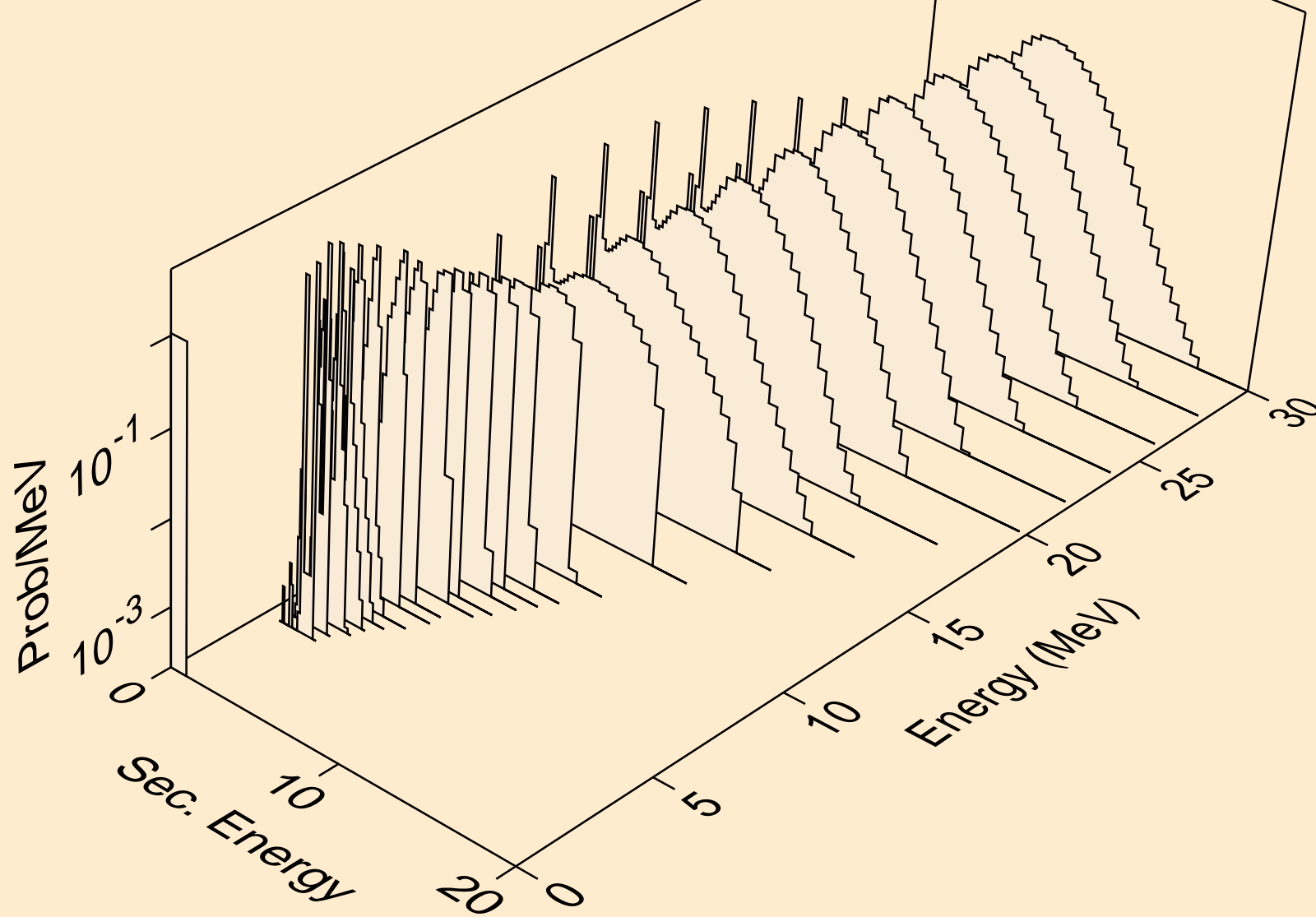




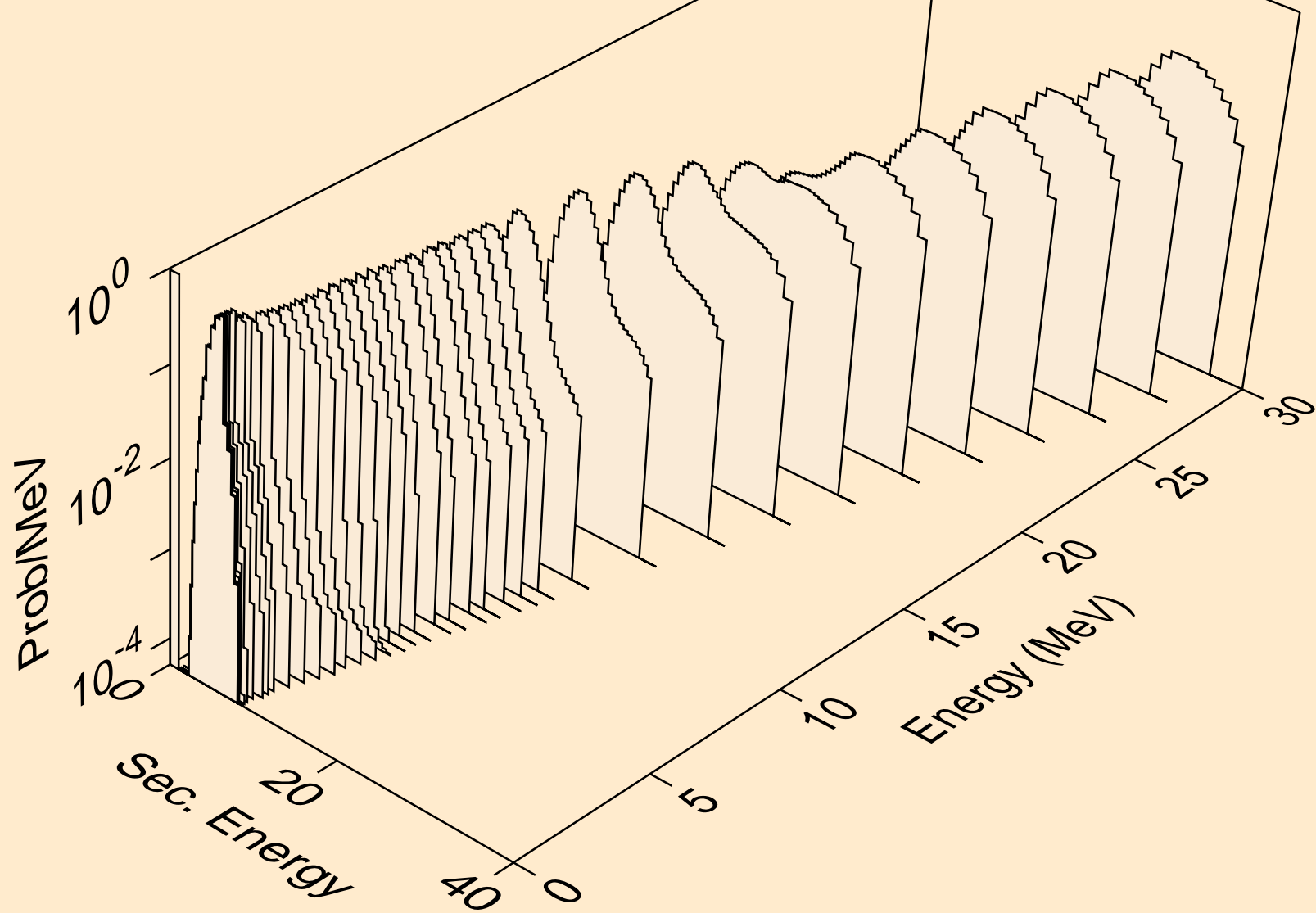
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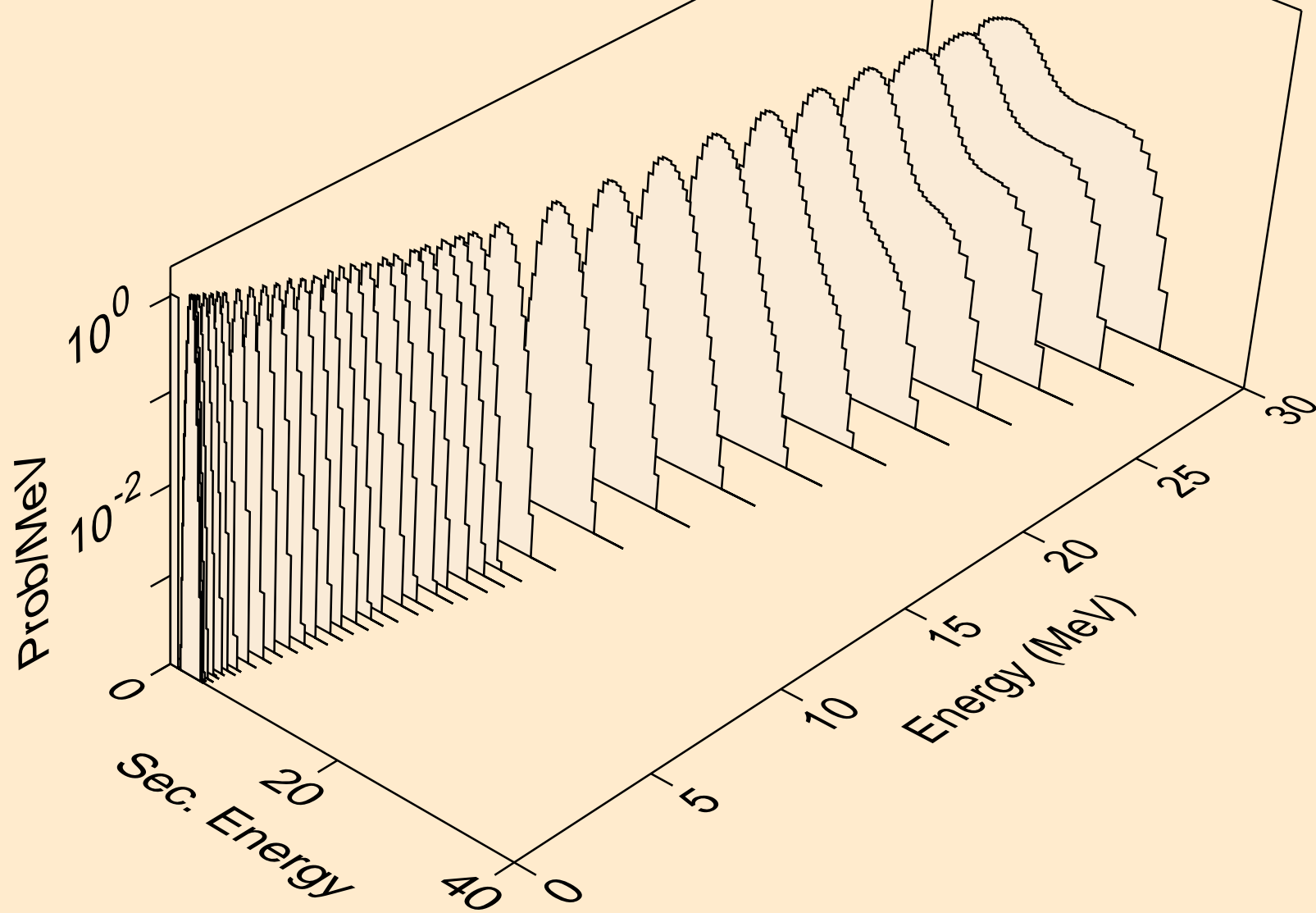
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protons from (n,npa)



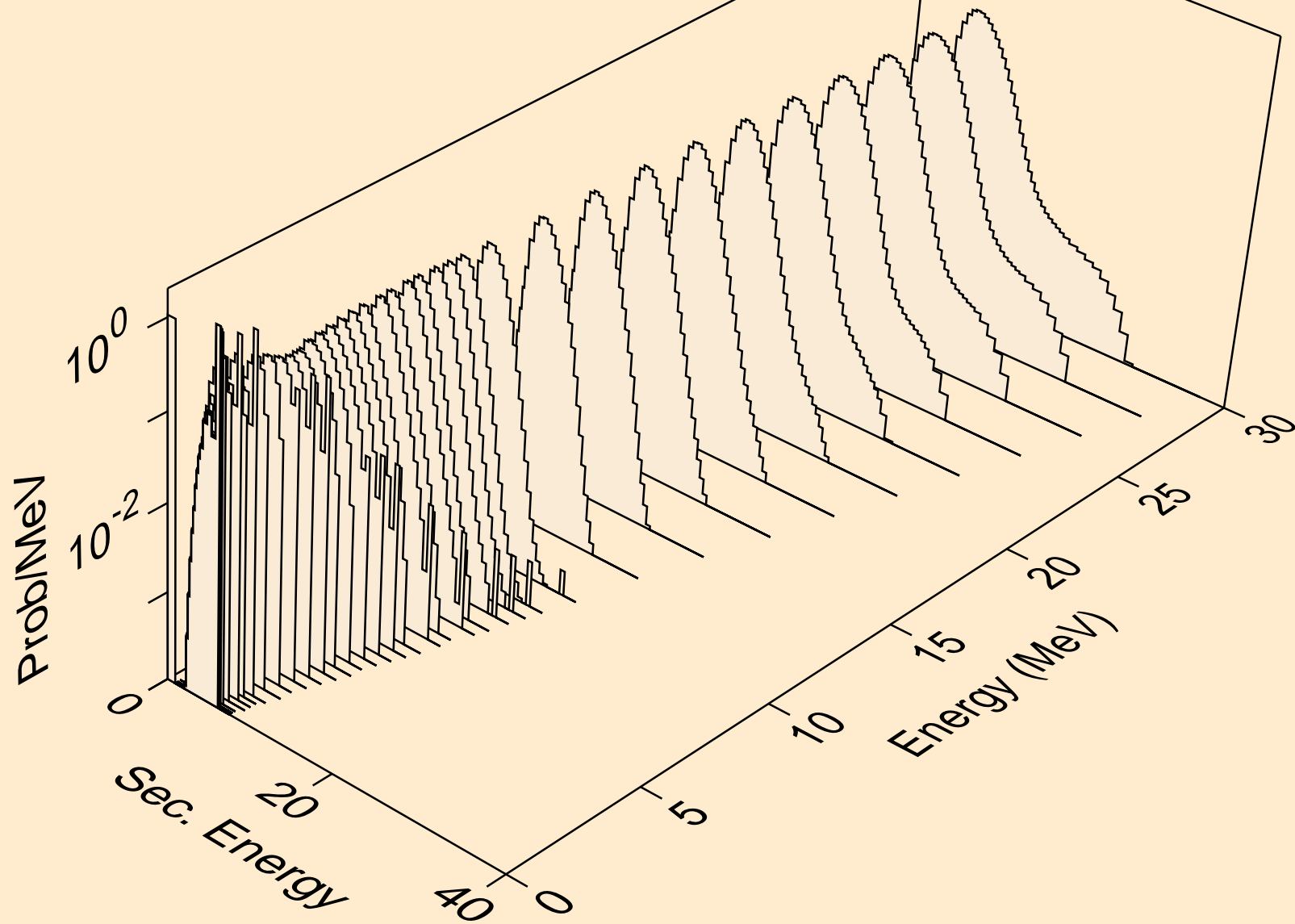
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protons from (n,p)



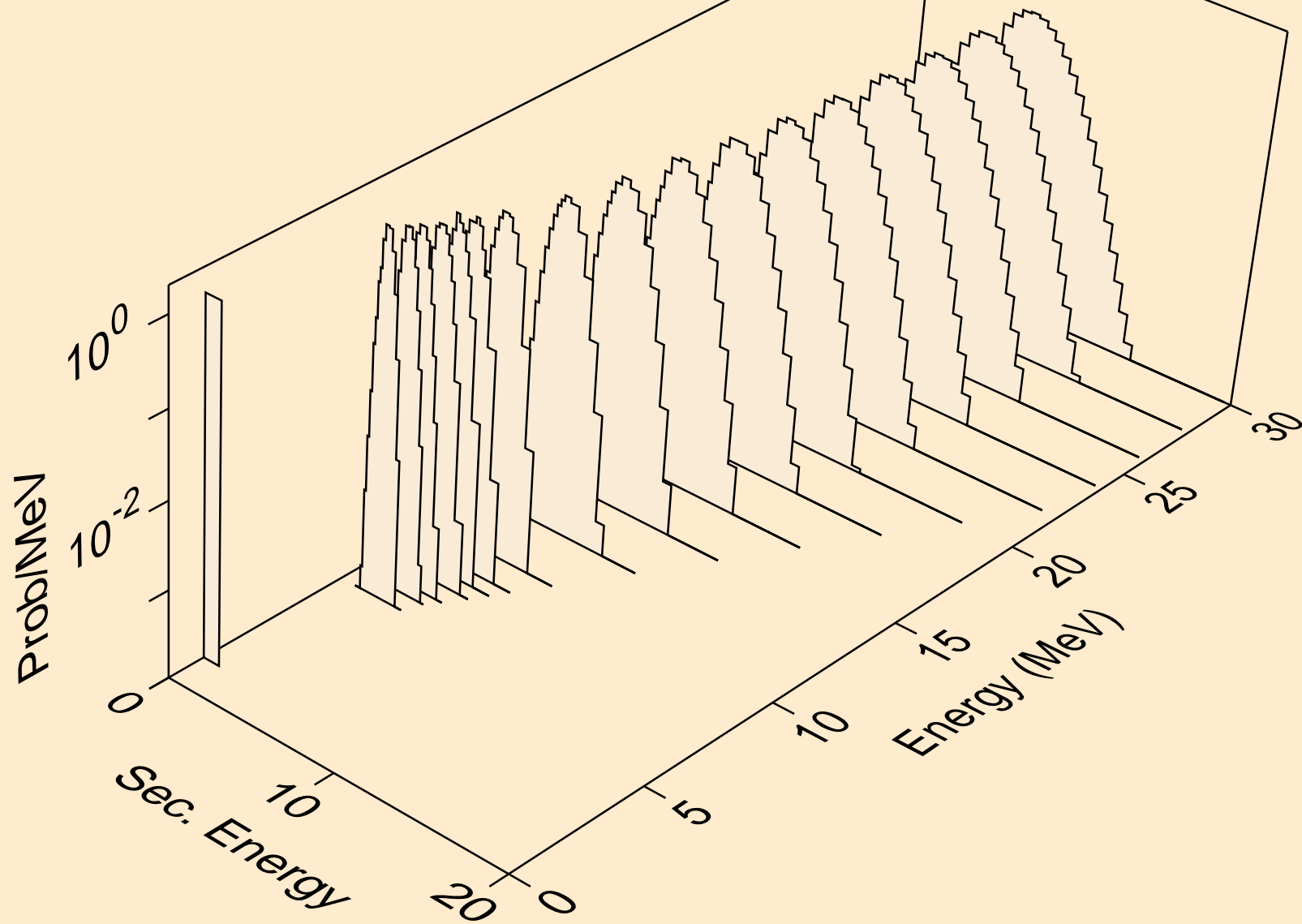
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protons from (n,2p)



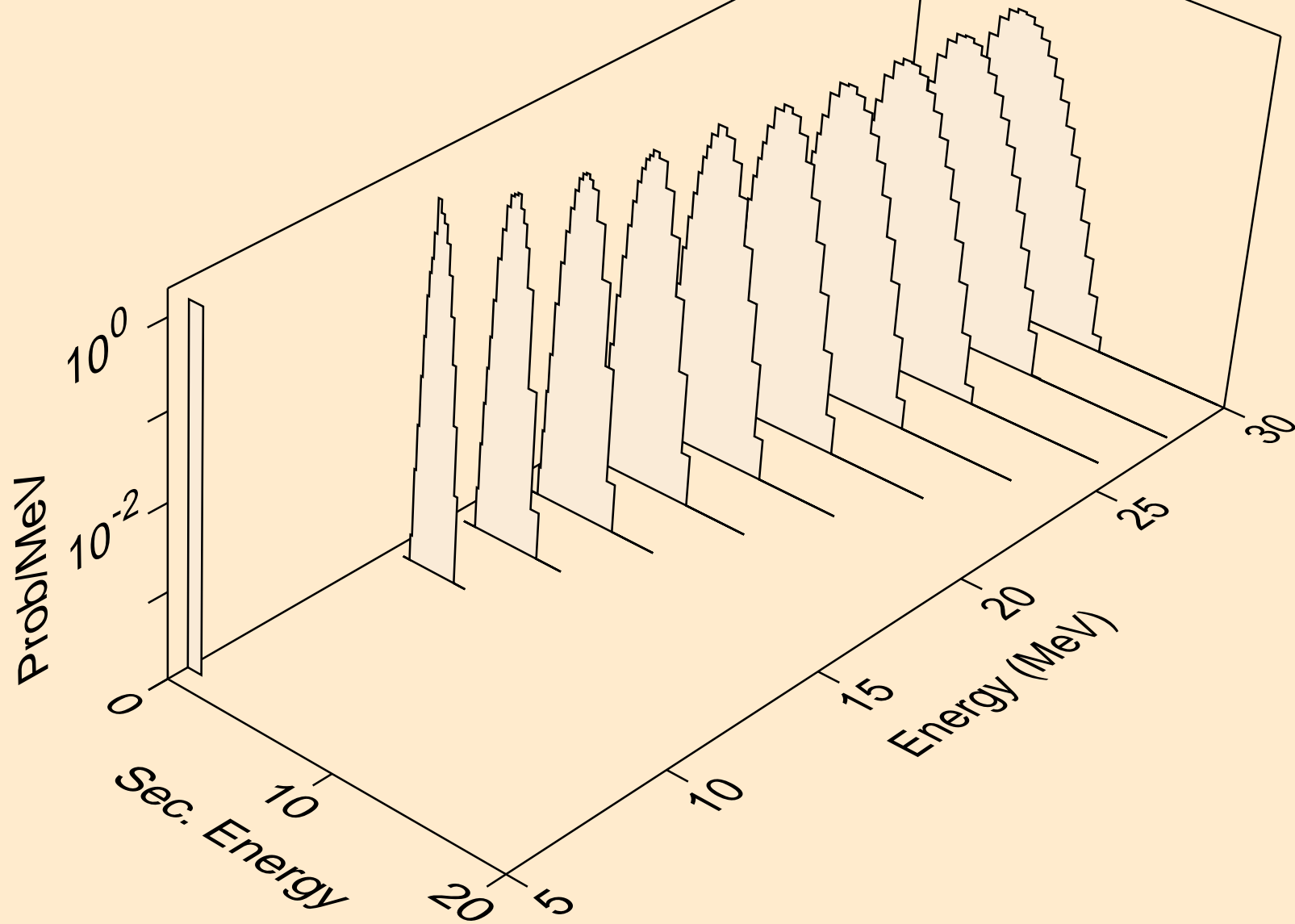
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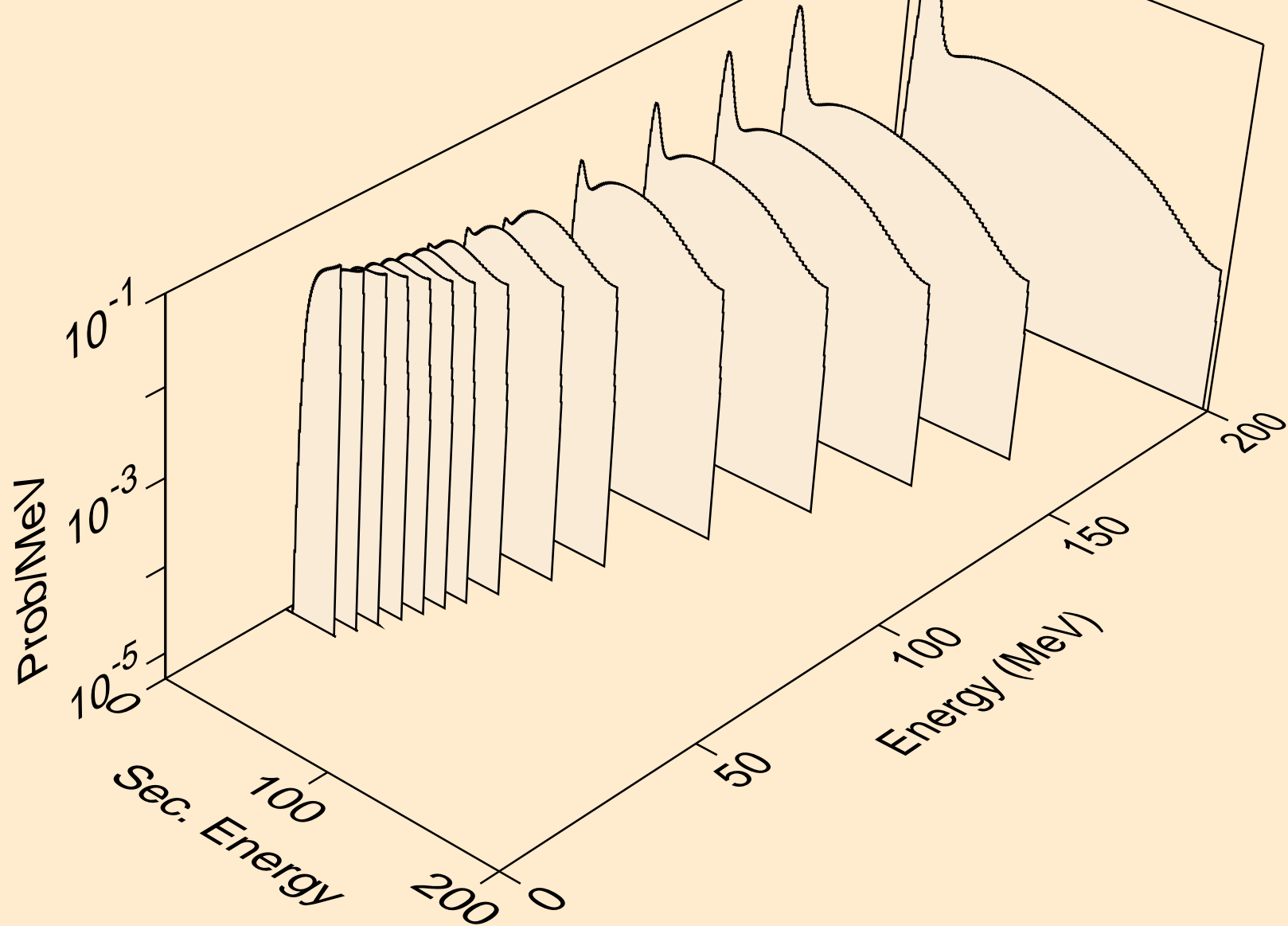
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protons from (n,pd)



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pt)

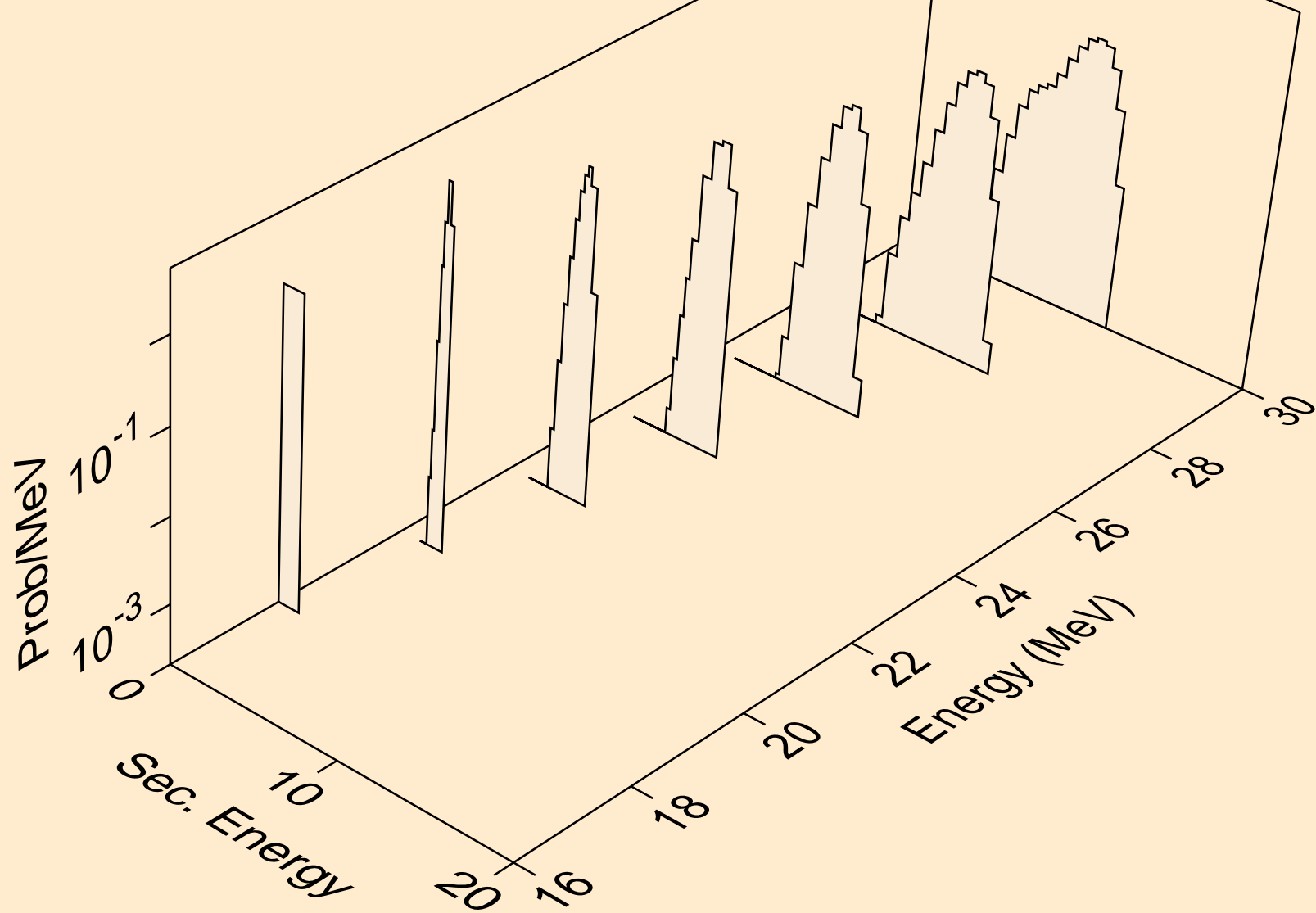


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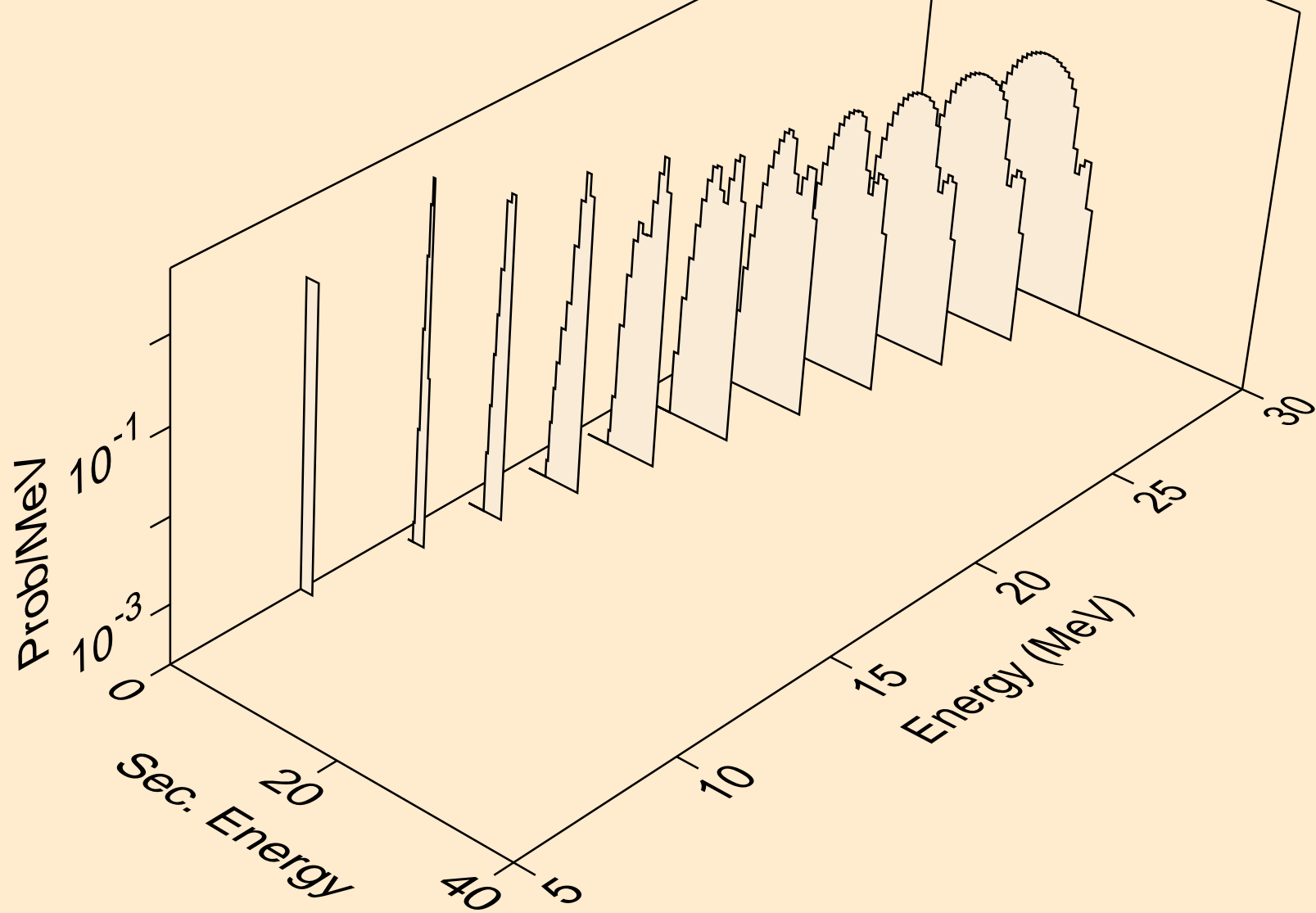




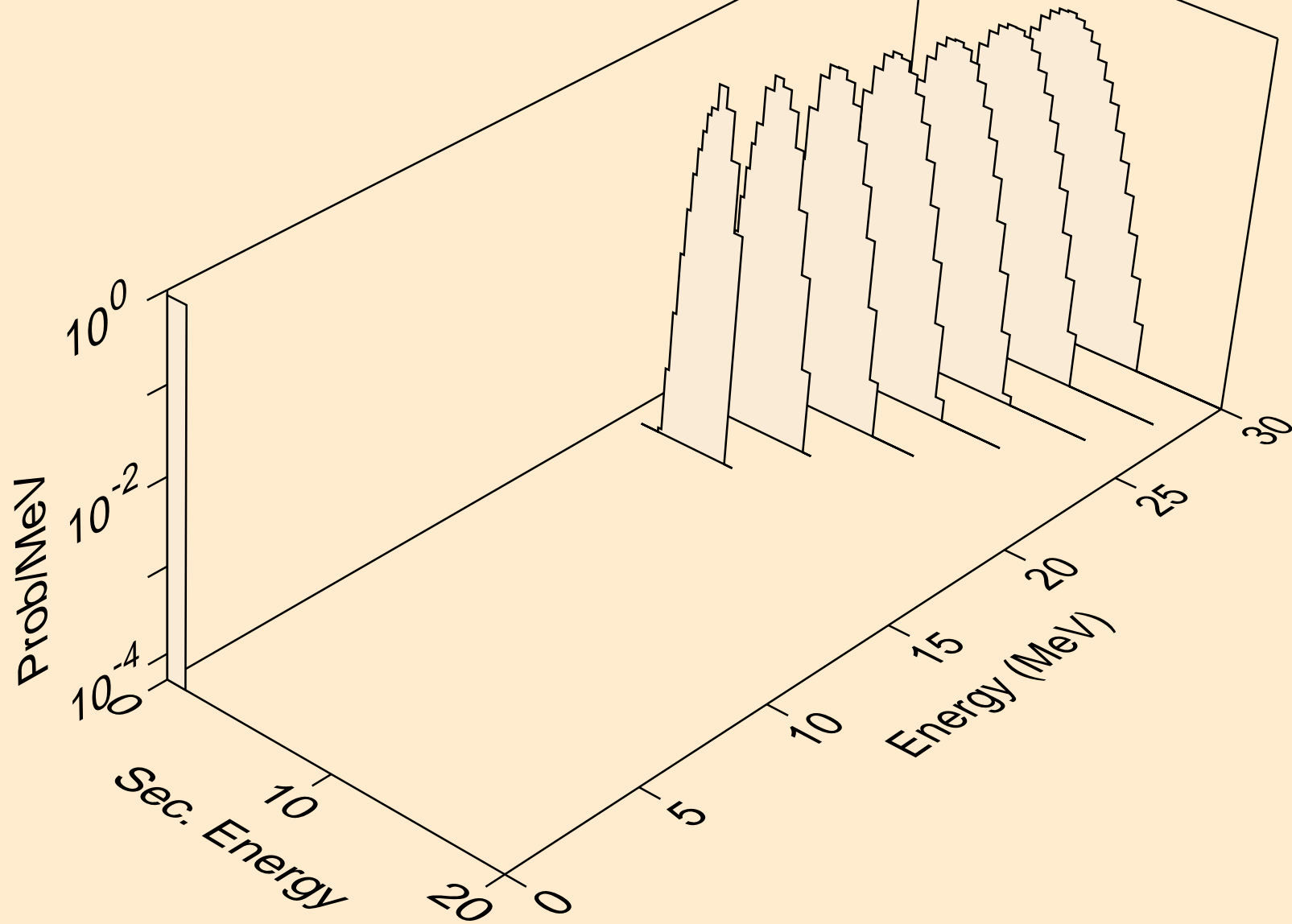
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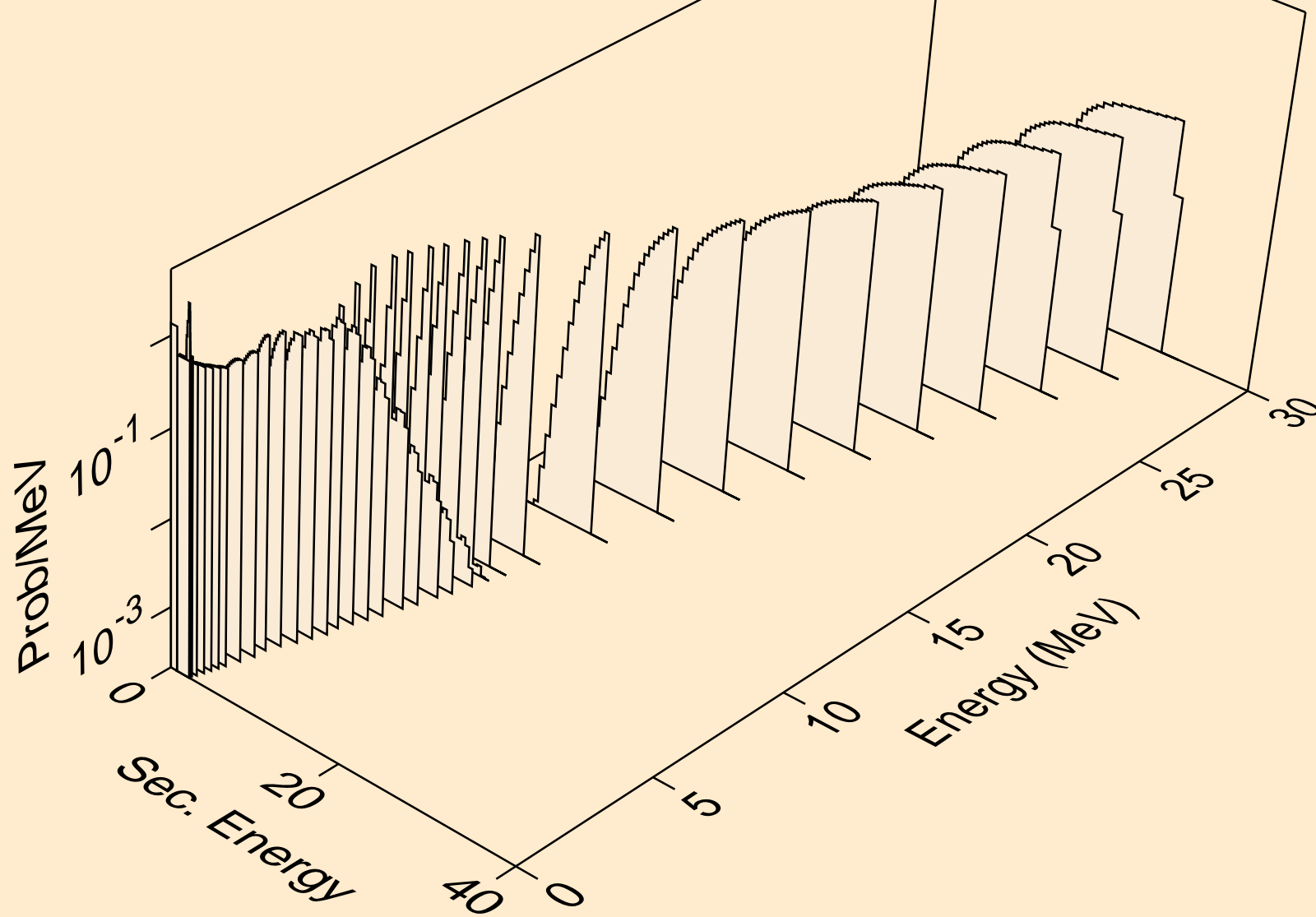
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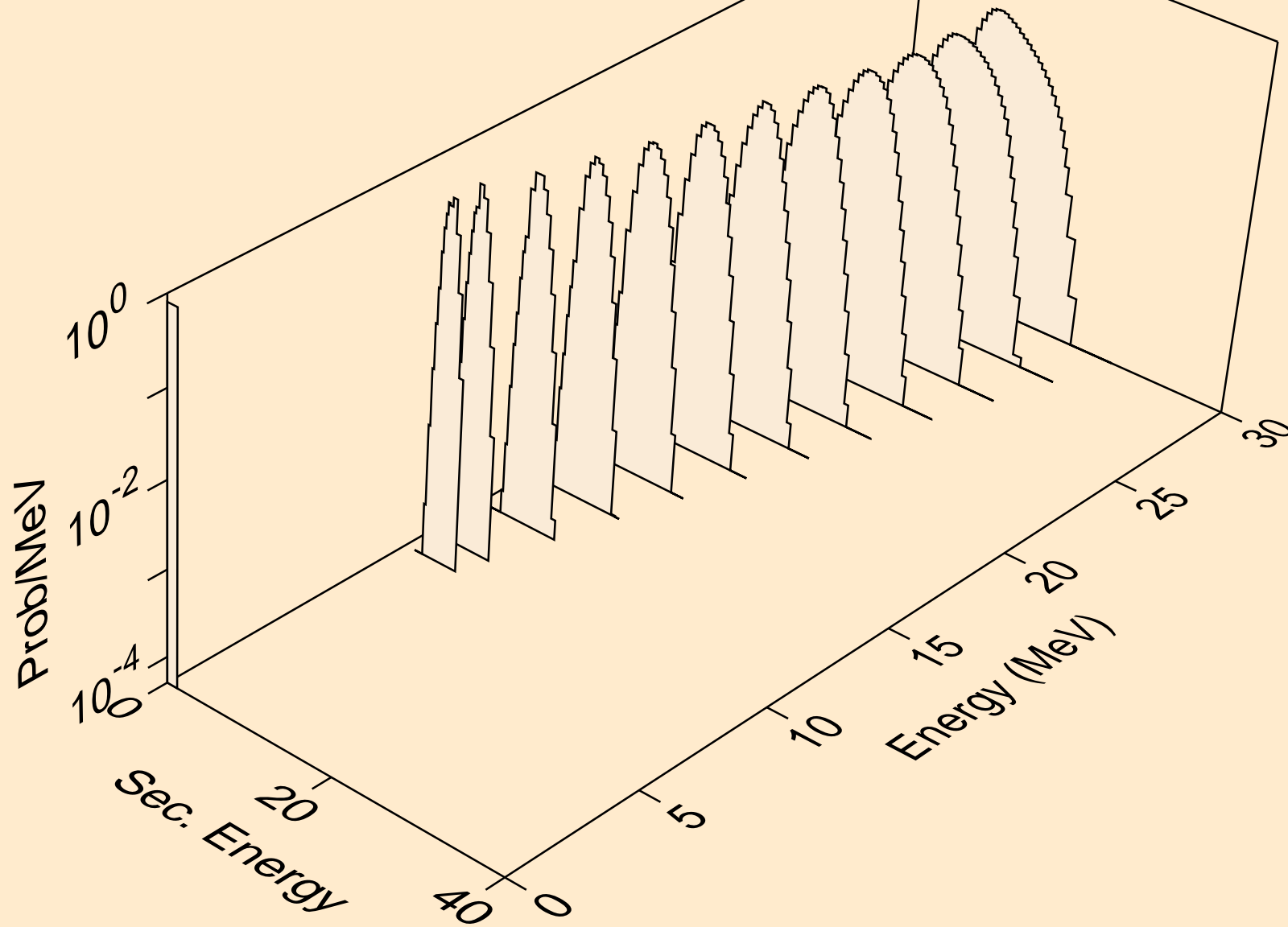
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deuterons from (n,n\*)d2a



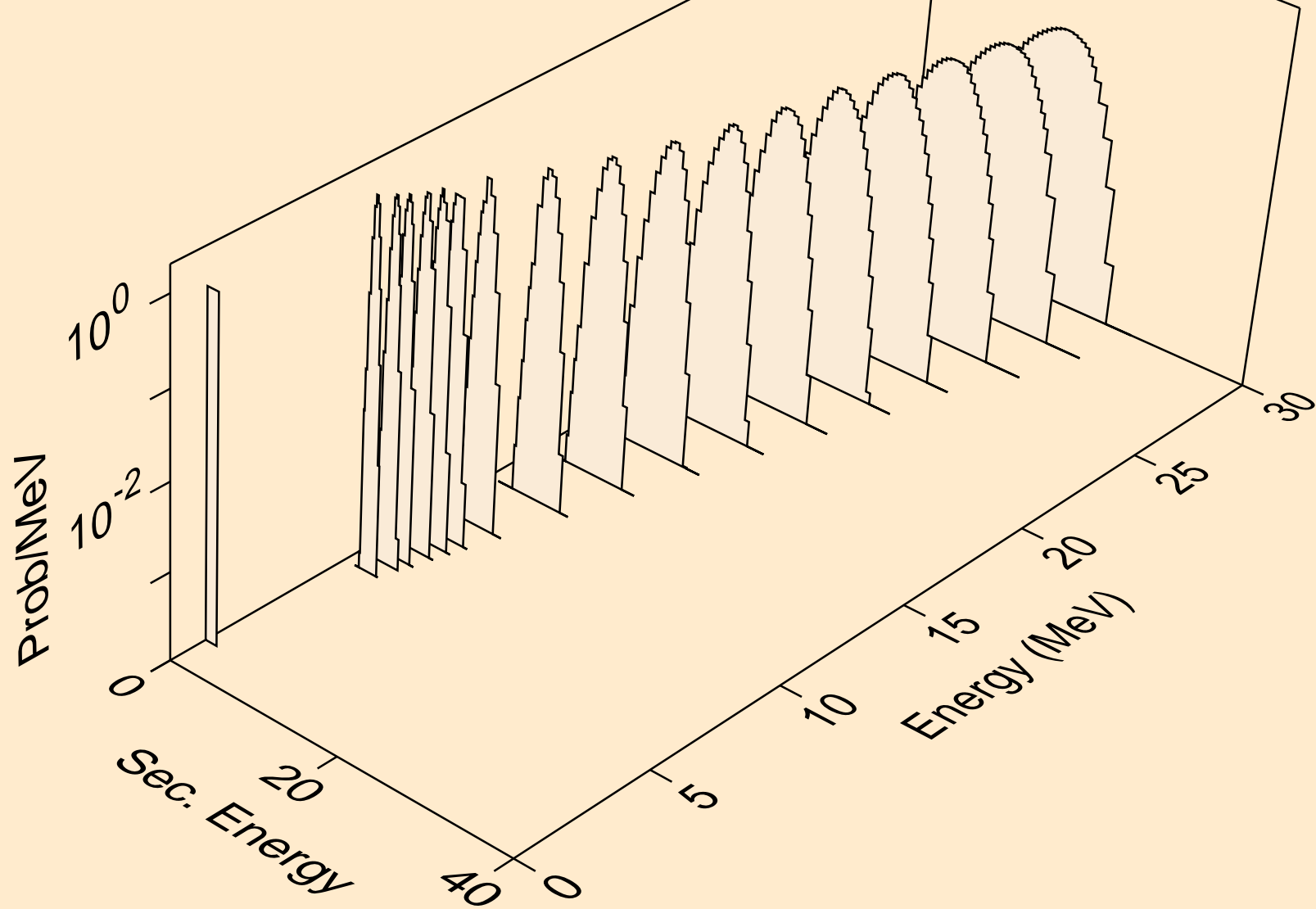
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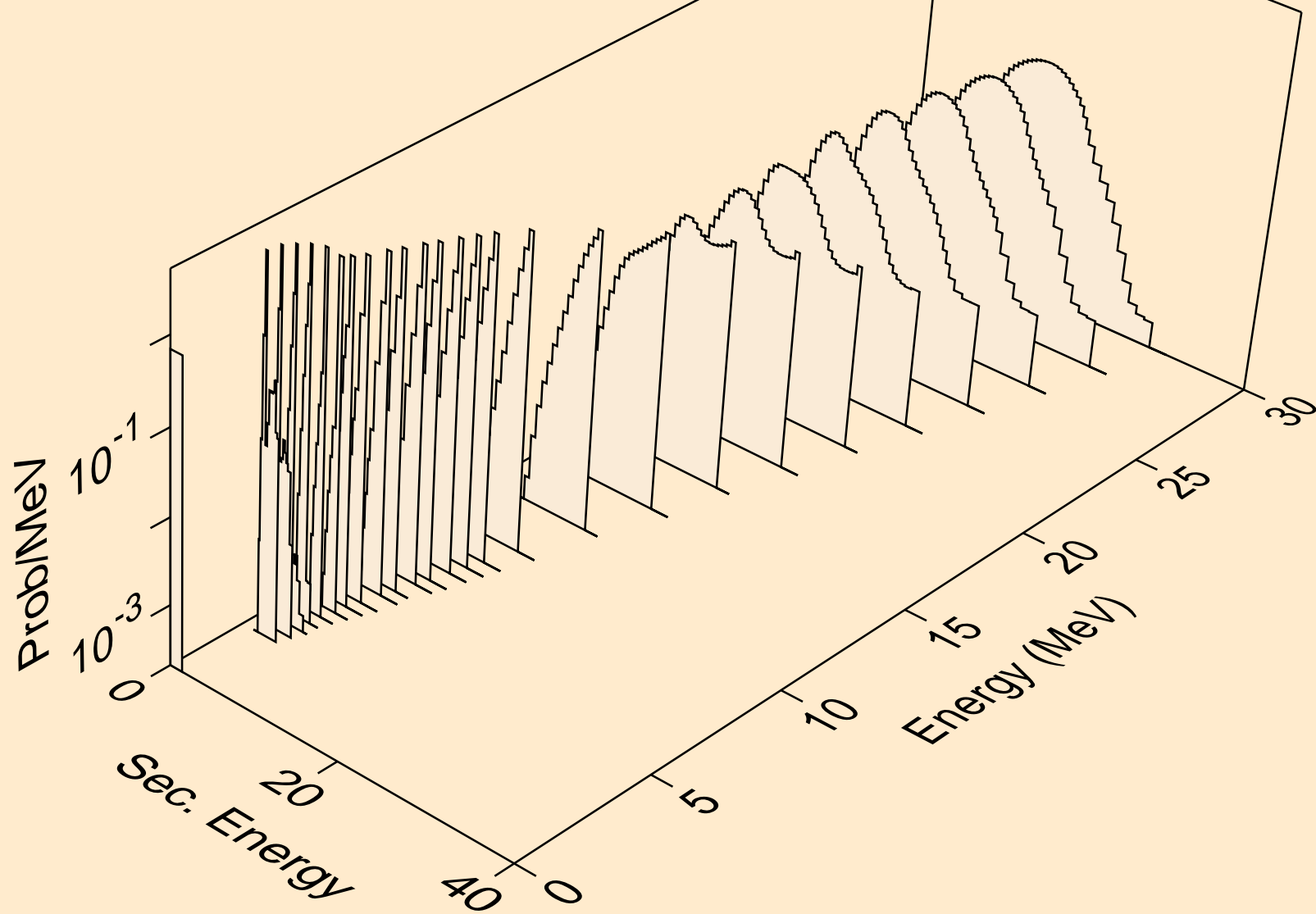
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deuterons from (n,d2a)



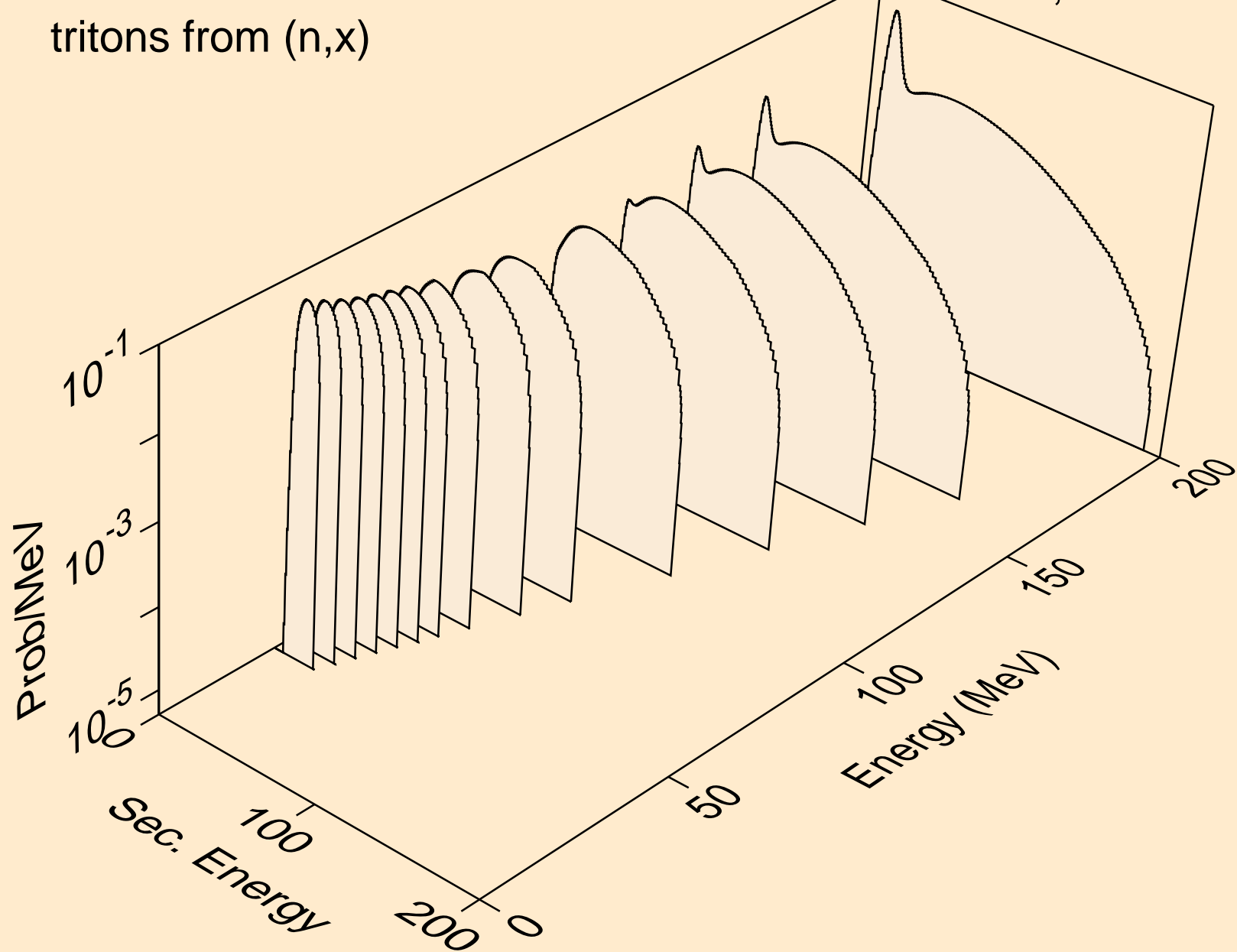
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deuterons from (n,pd)



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deuterons from (n,da)

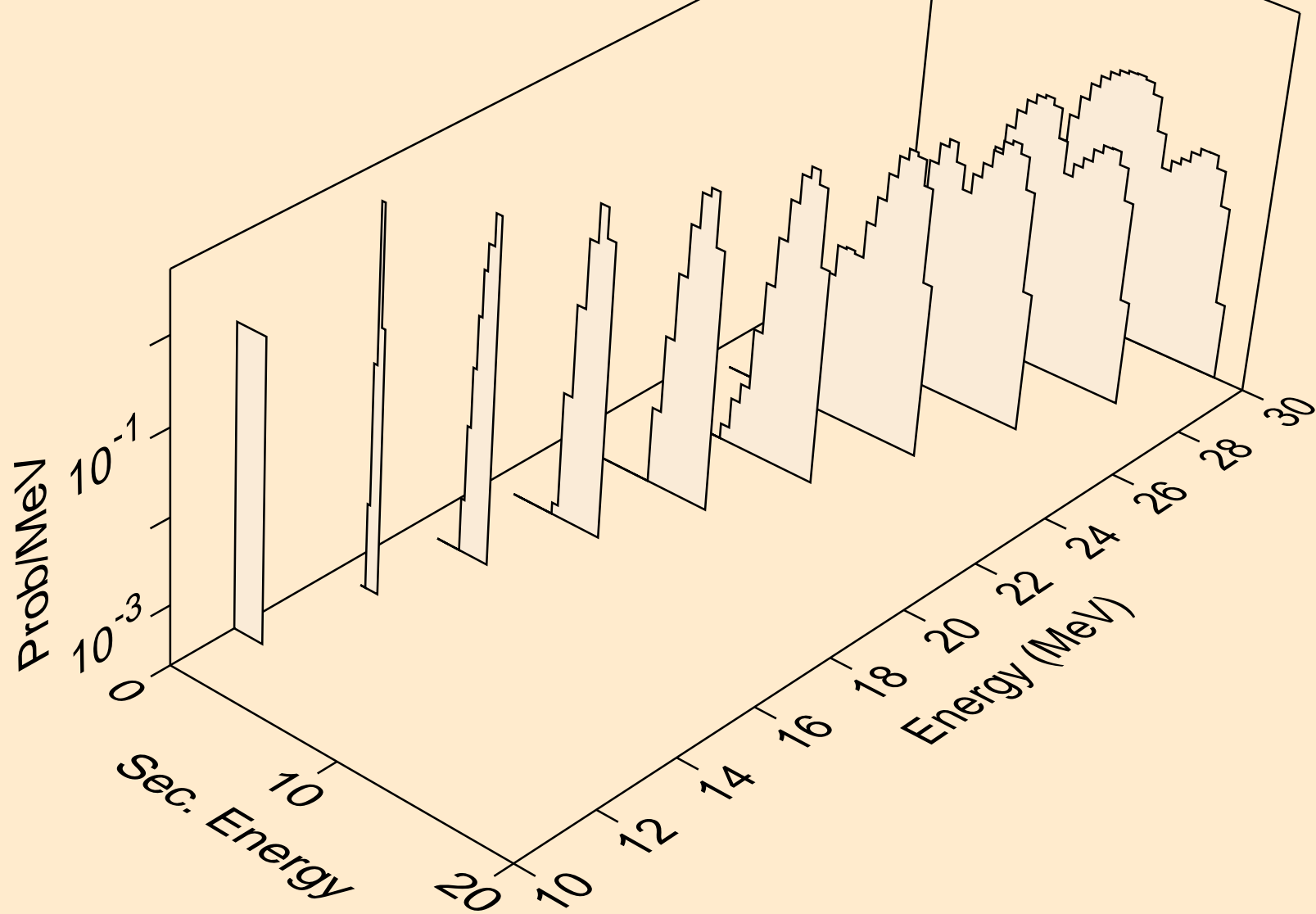


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tritons from (n,x)

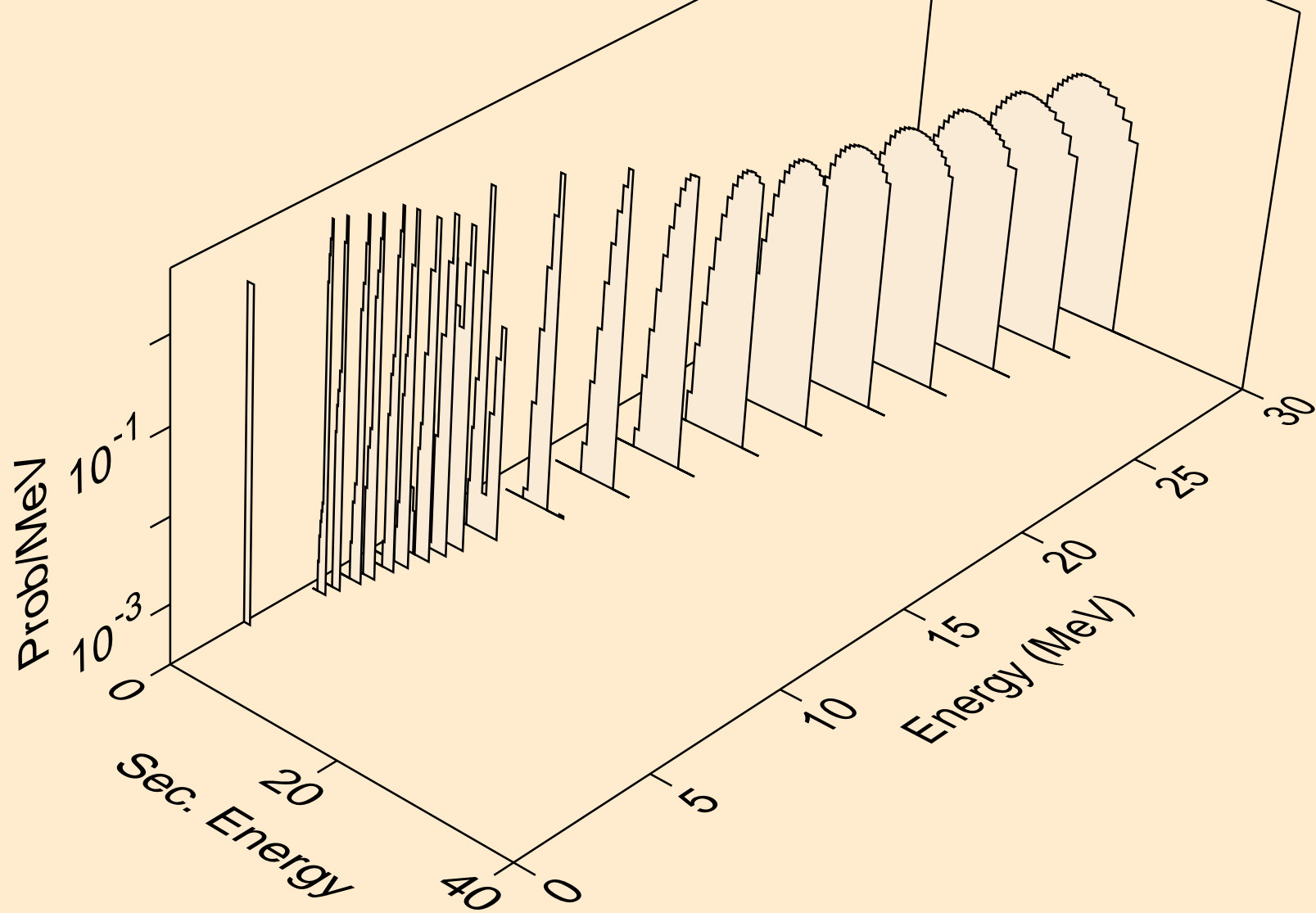




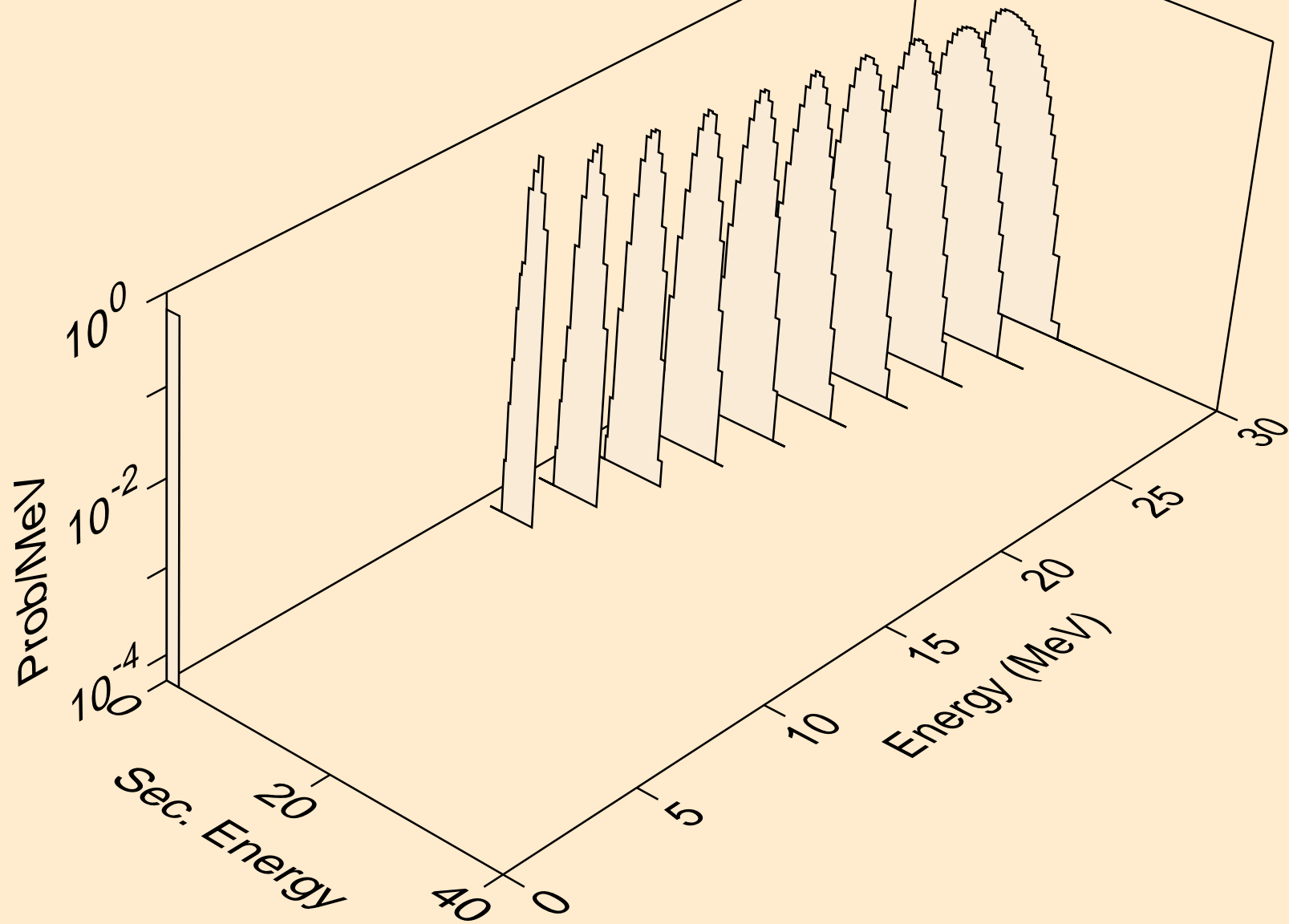
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tritons from (n,n\*)t



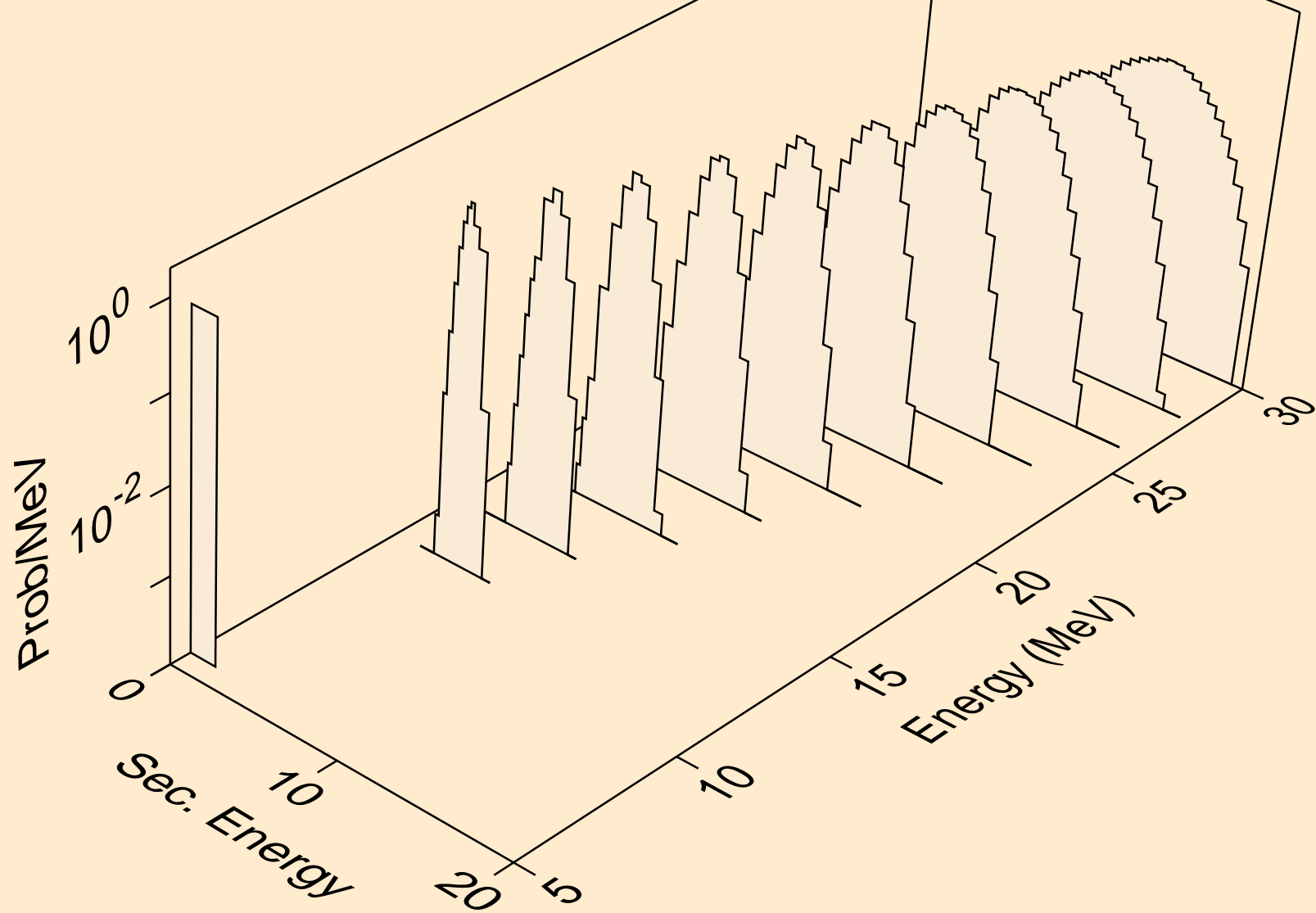
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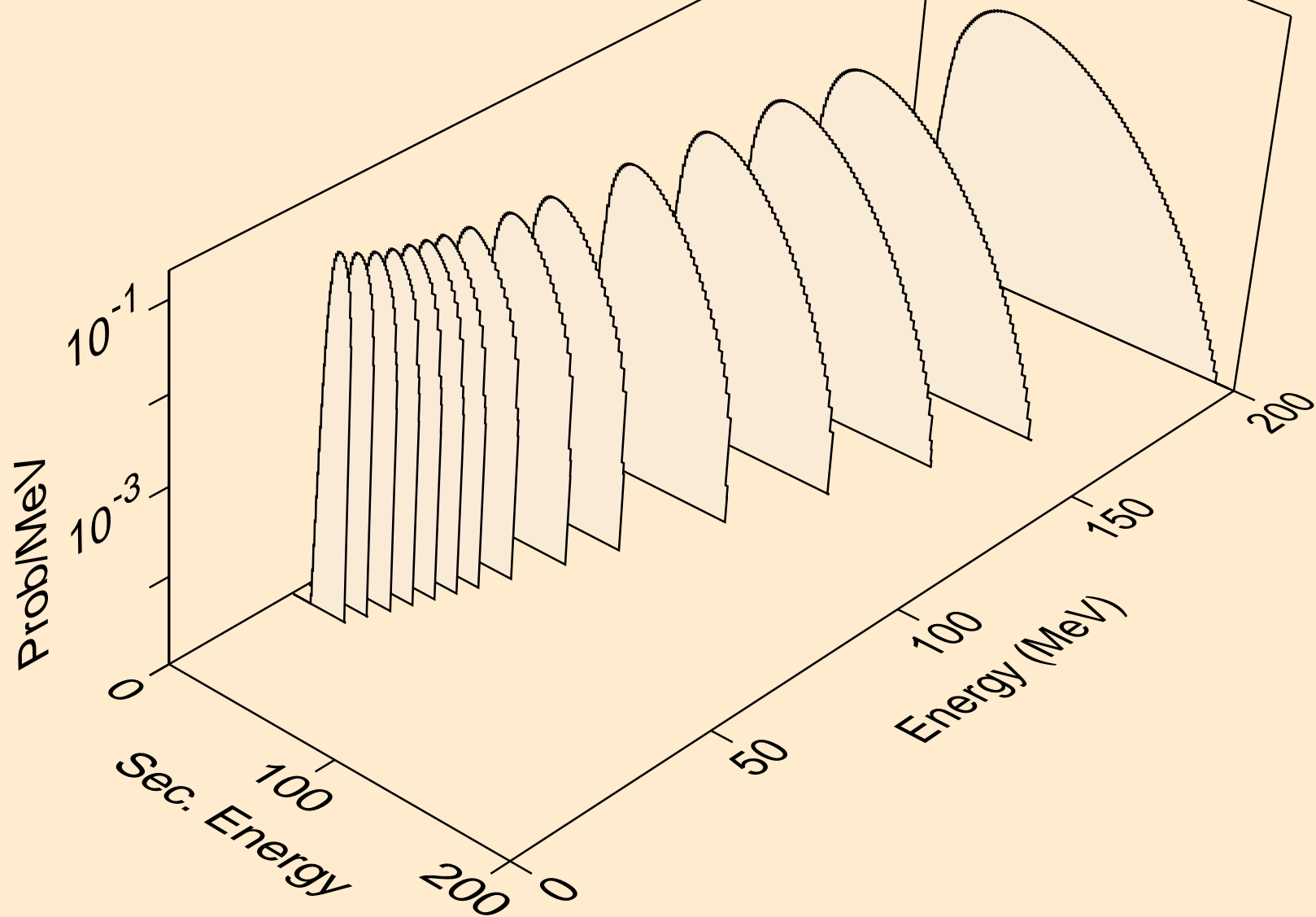
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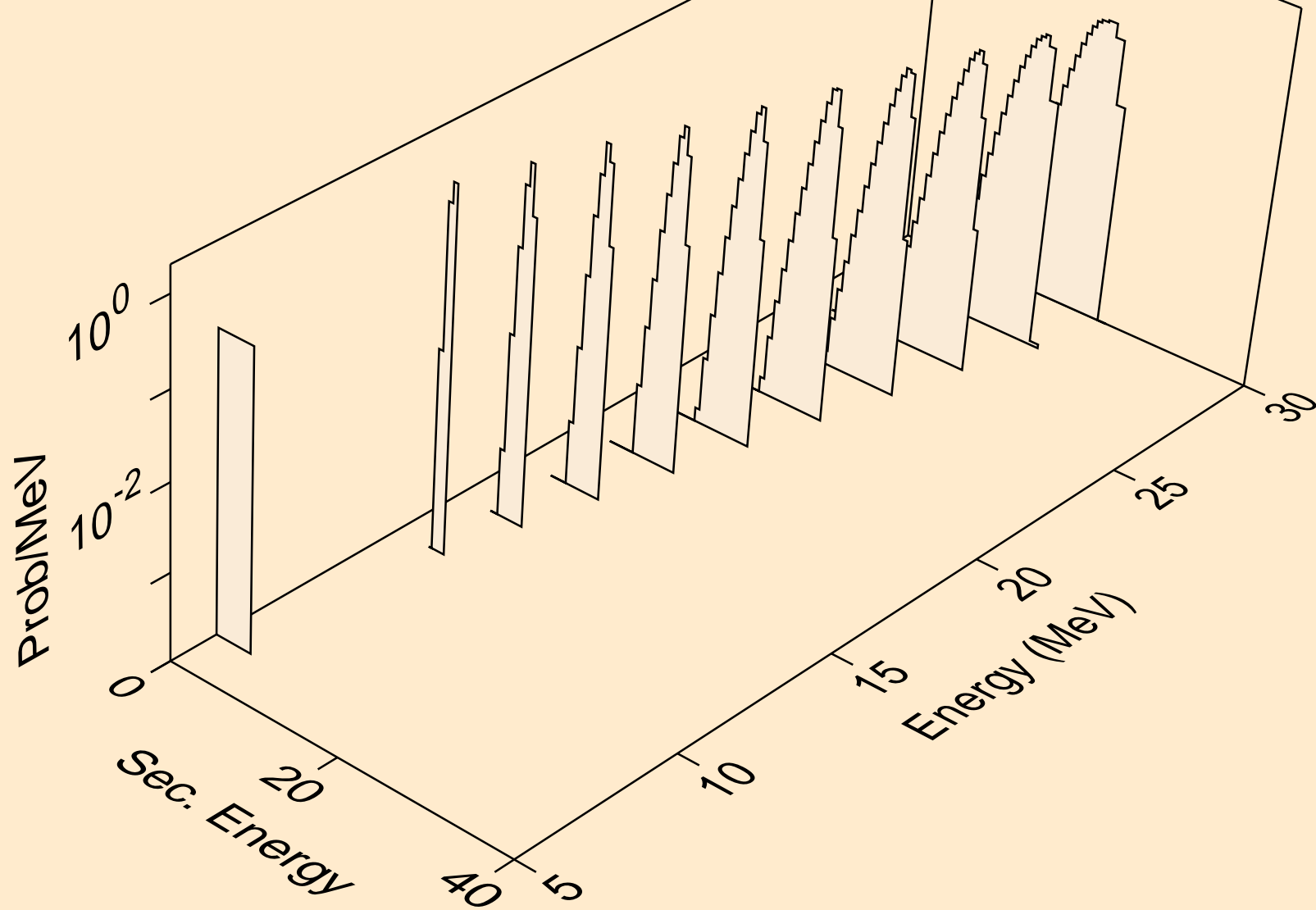
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,pt)



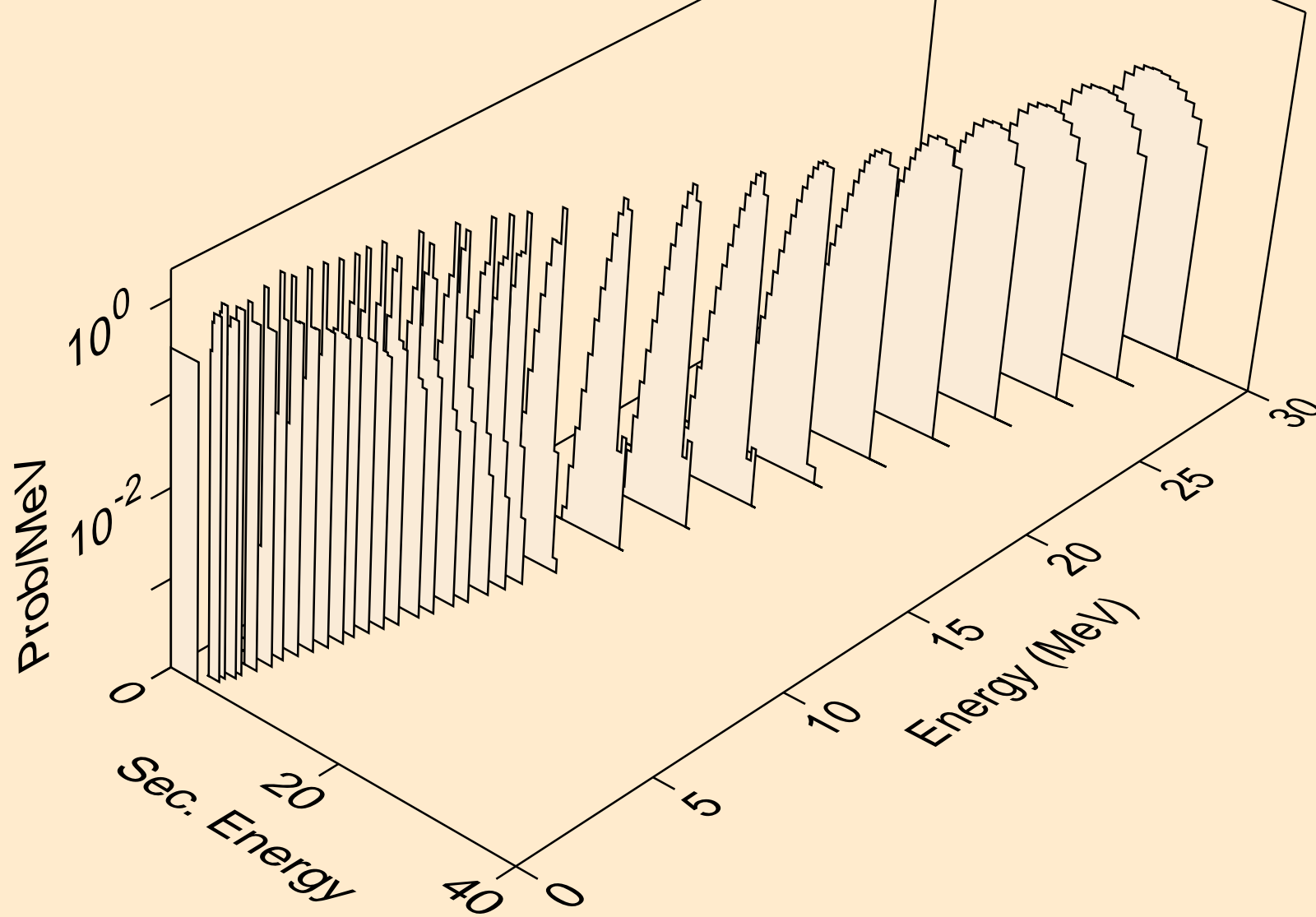
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



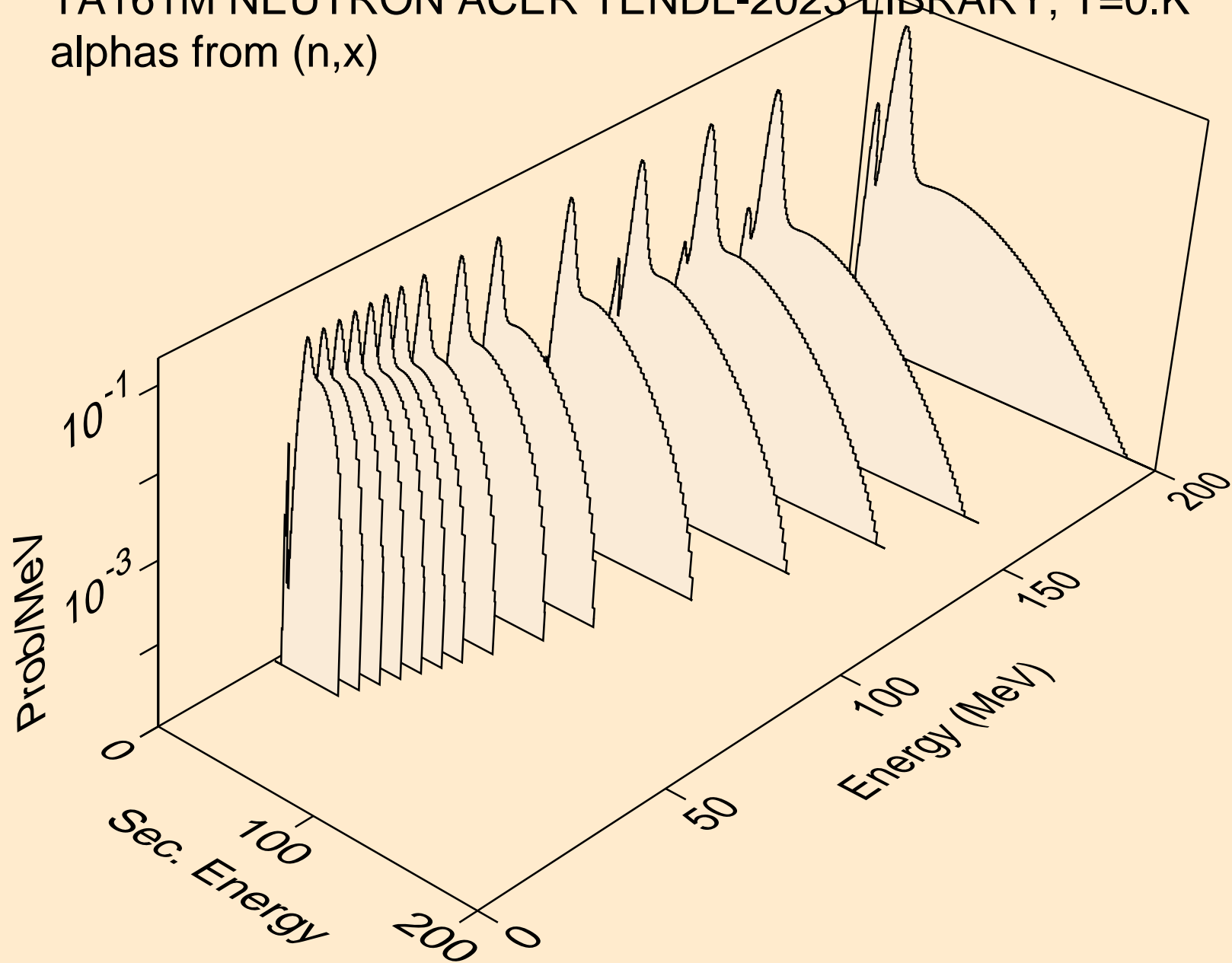
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)

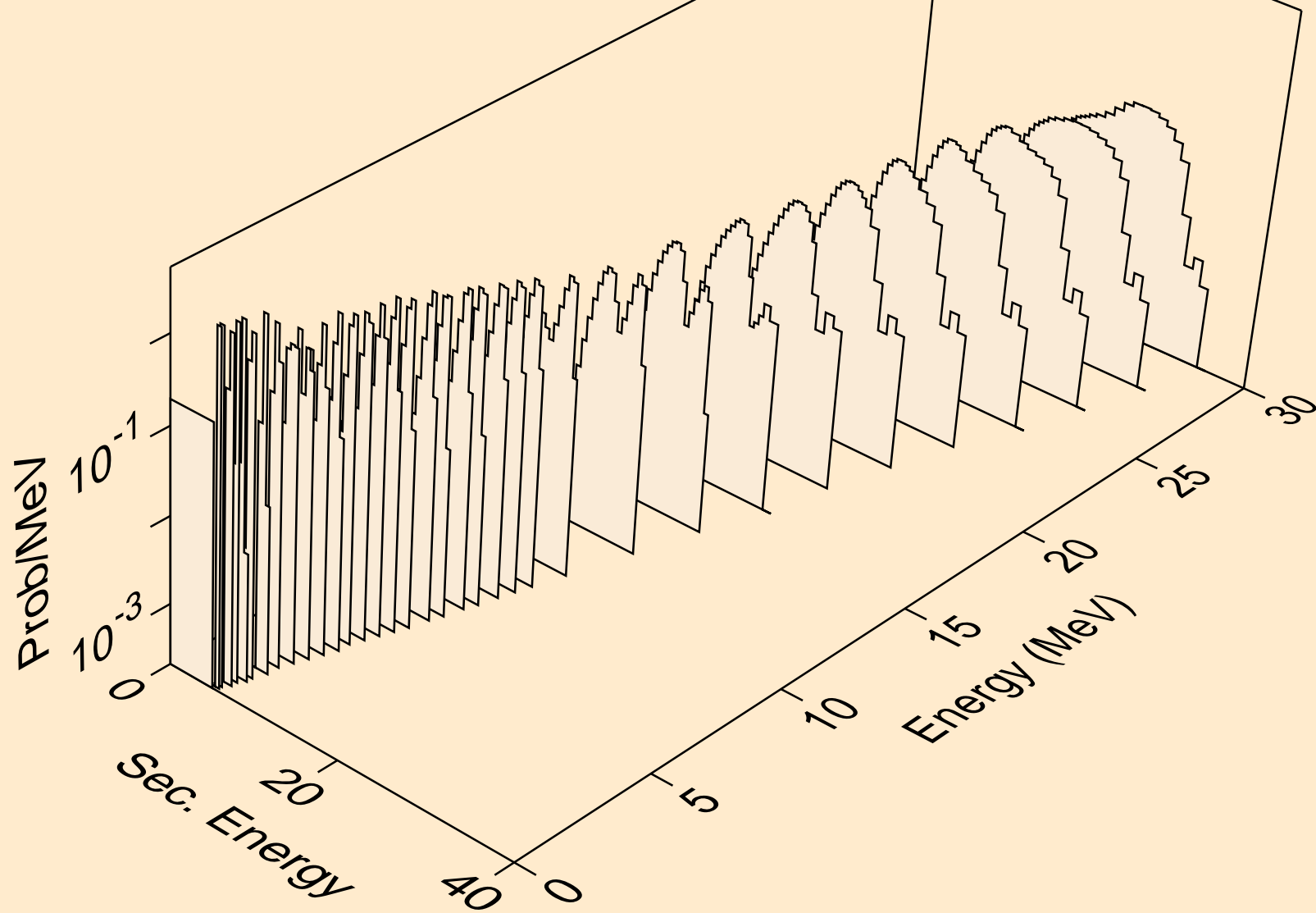


TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)

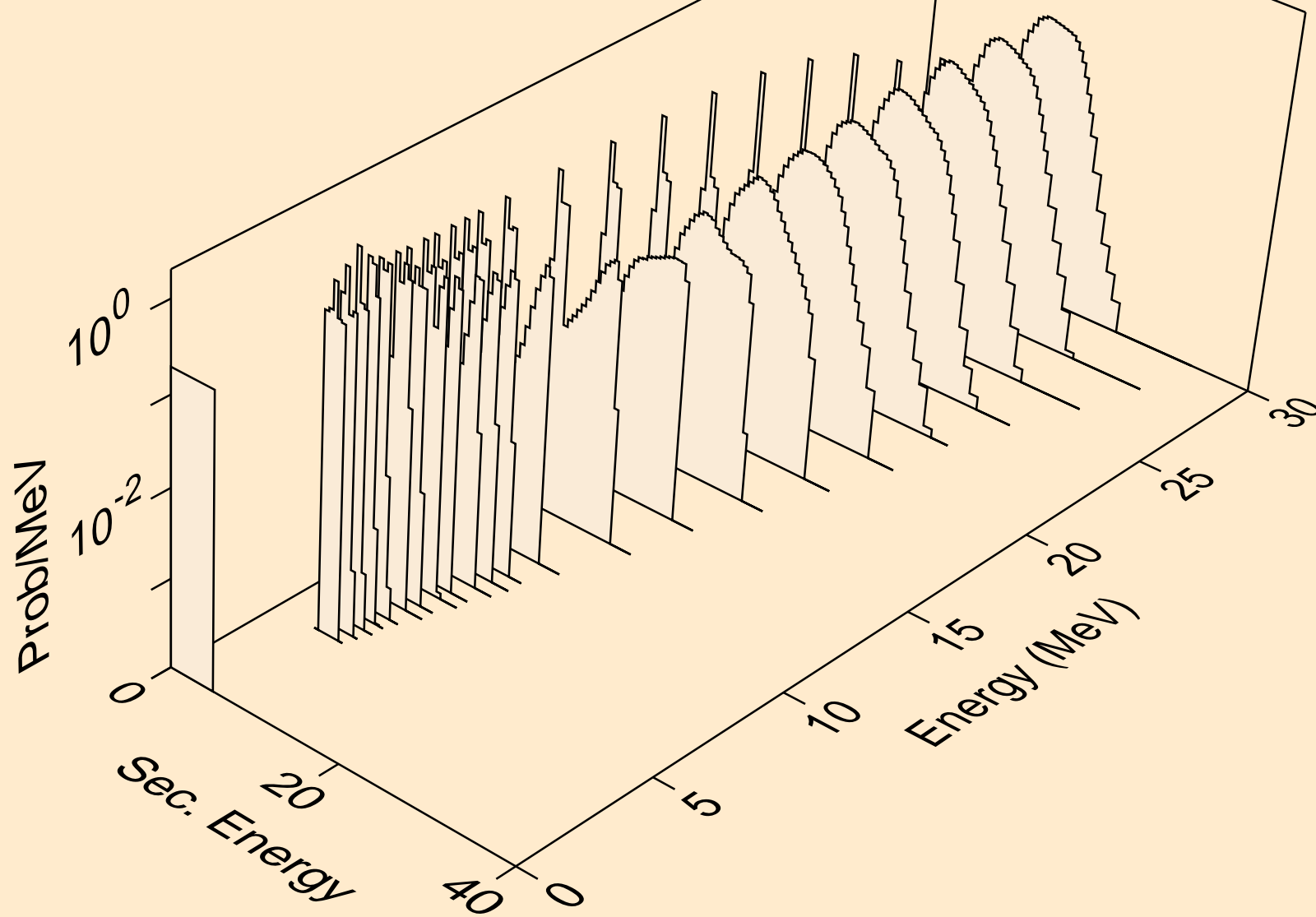




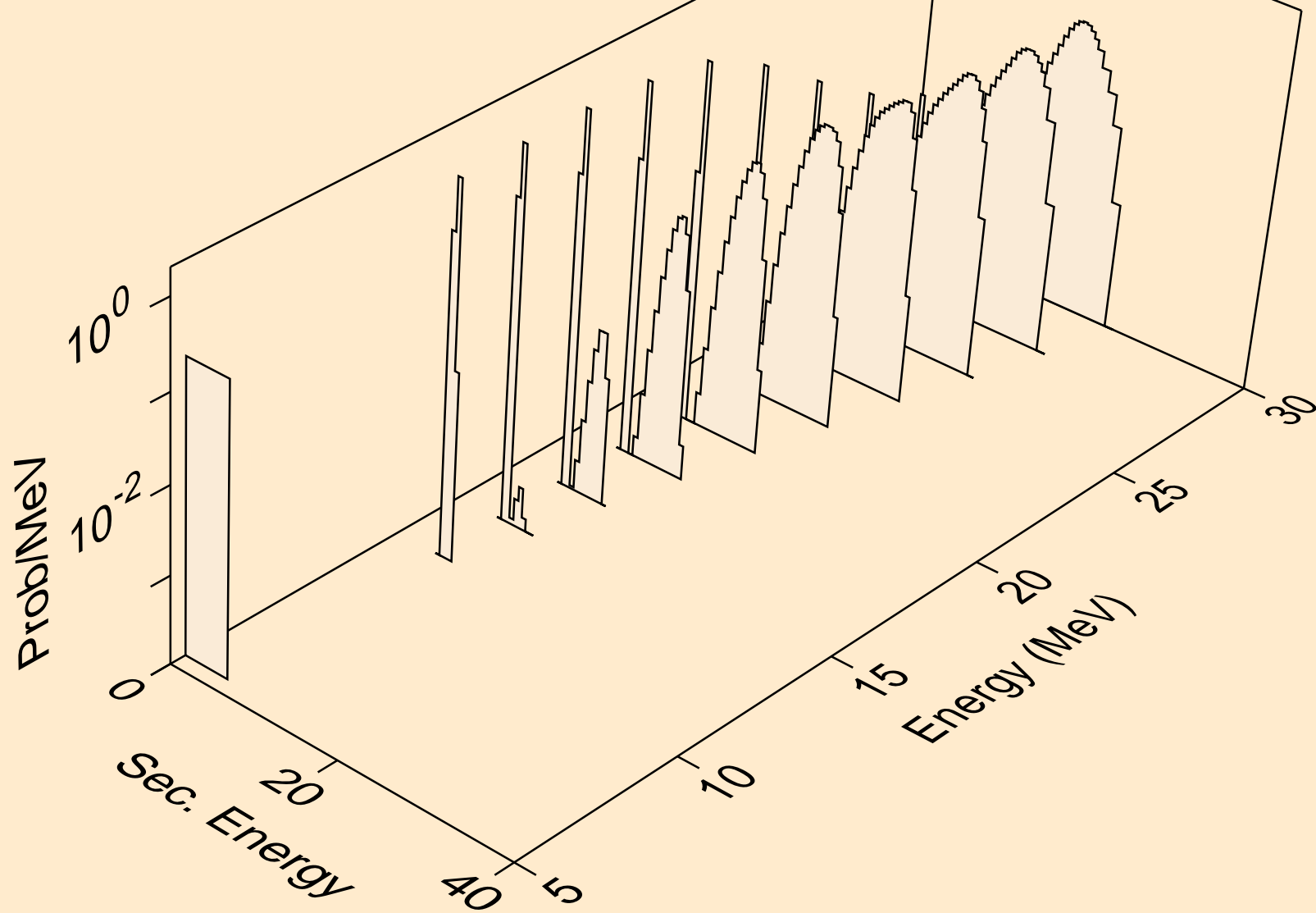
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



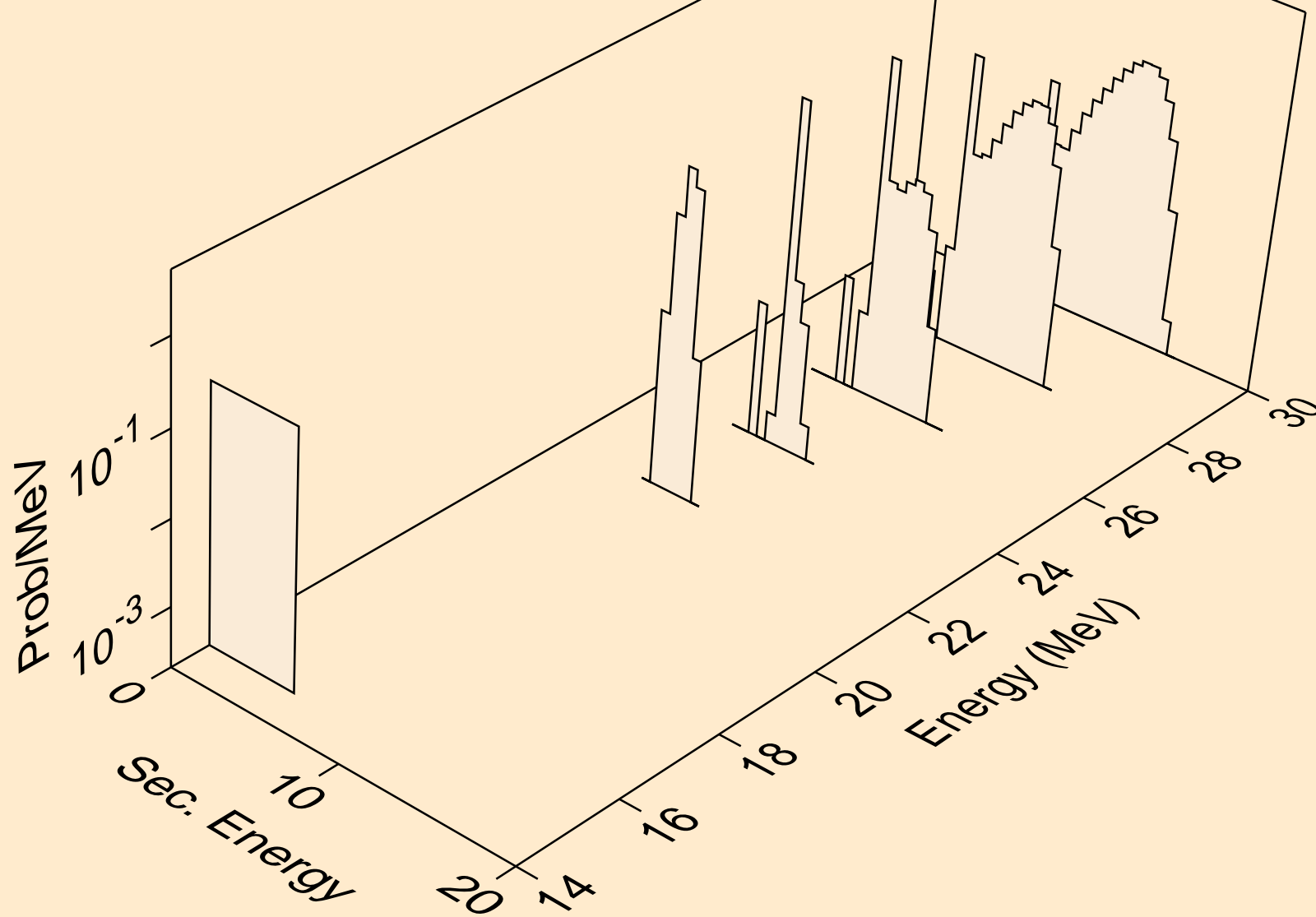
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)3a



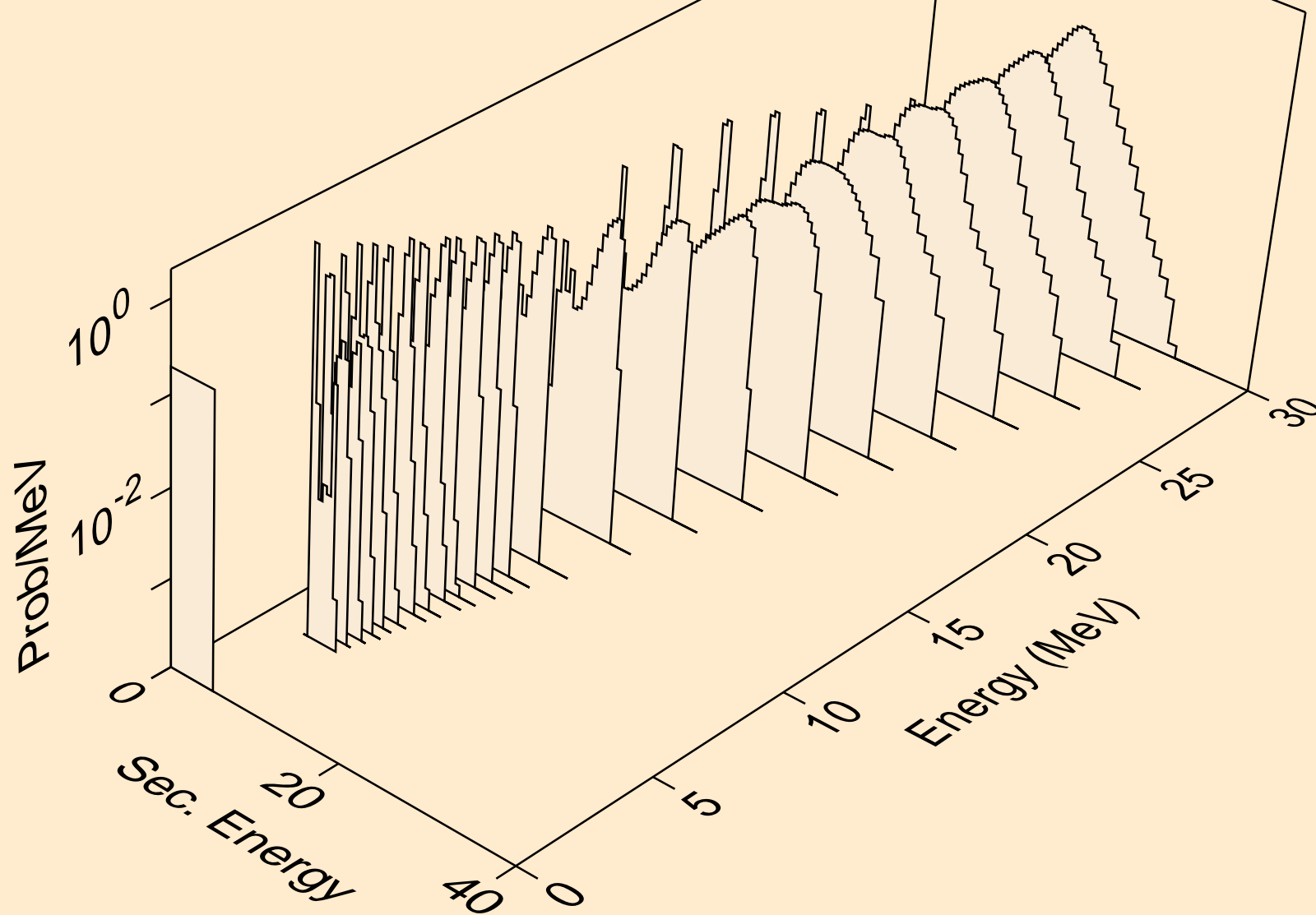
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a



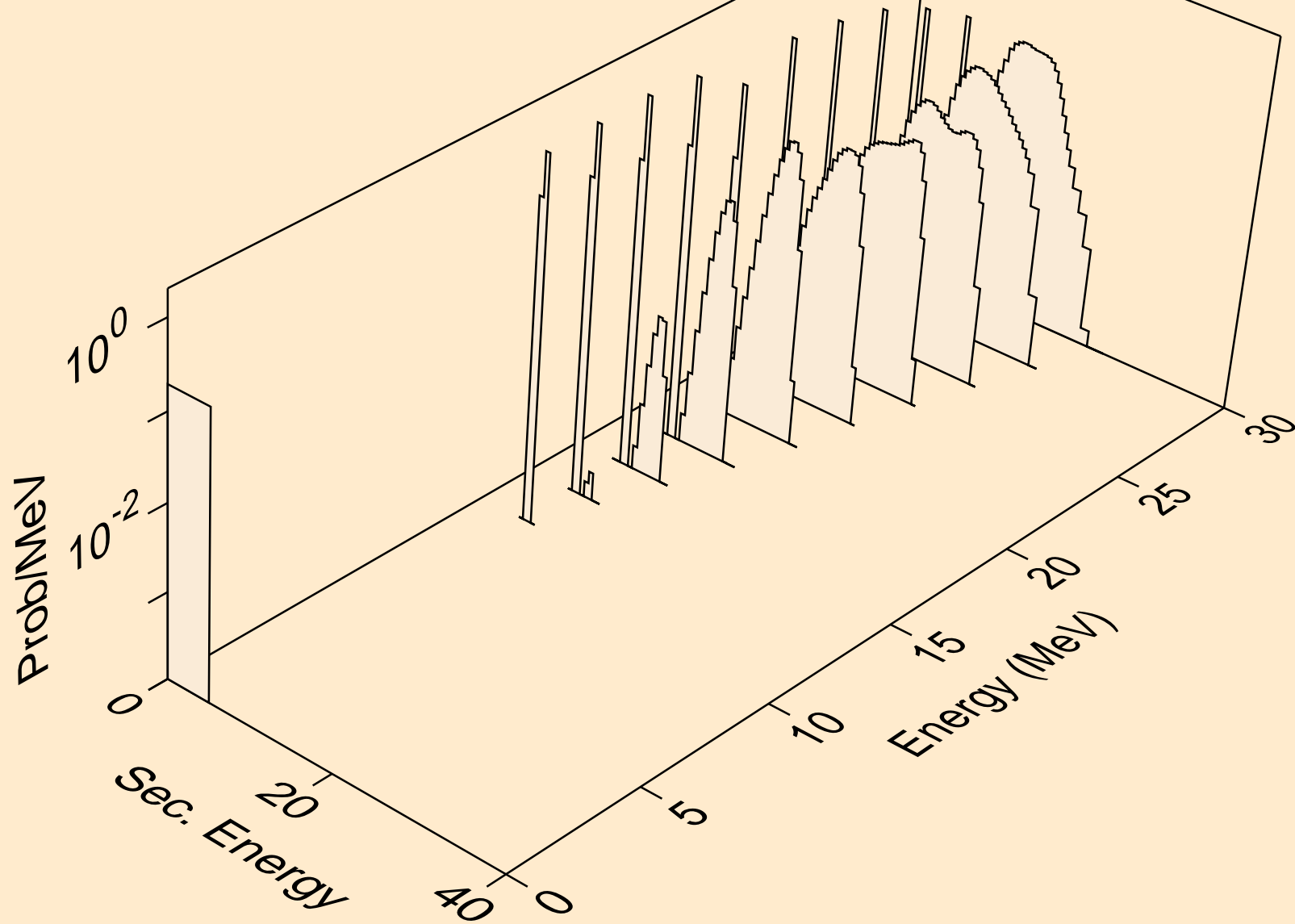
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alphas from (n,3n)a



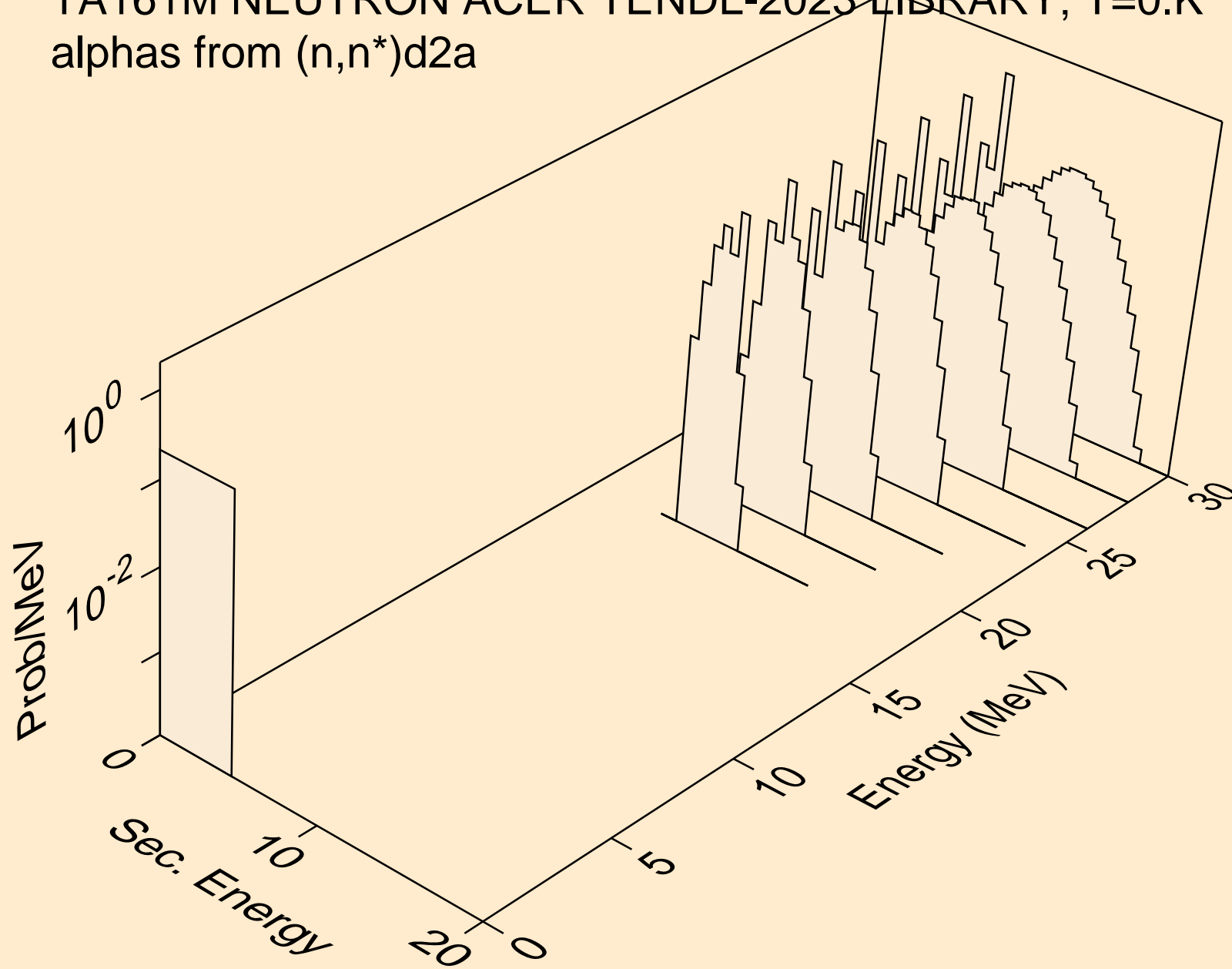
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)2a



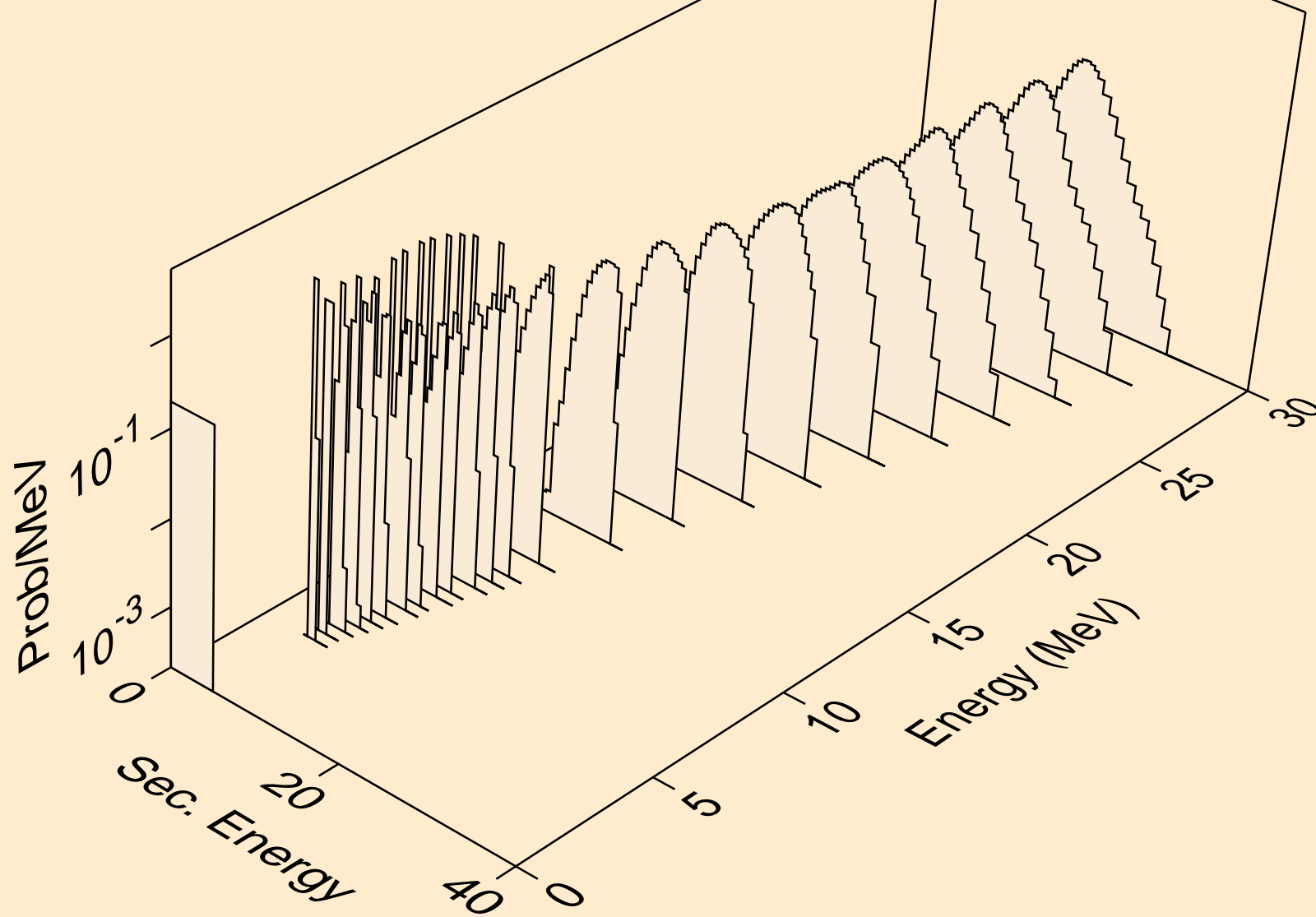
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)2a



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)d2a

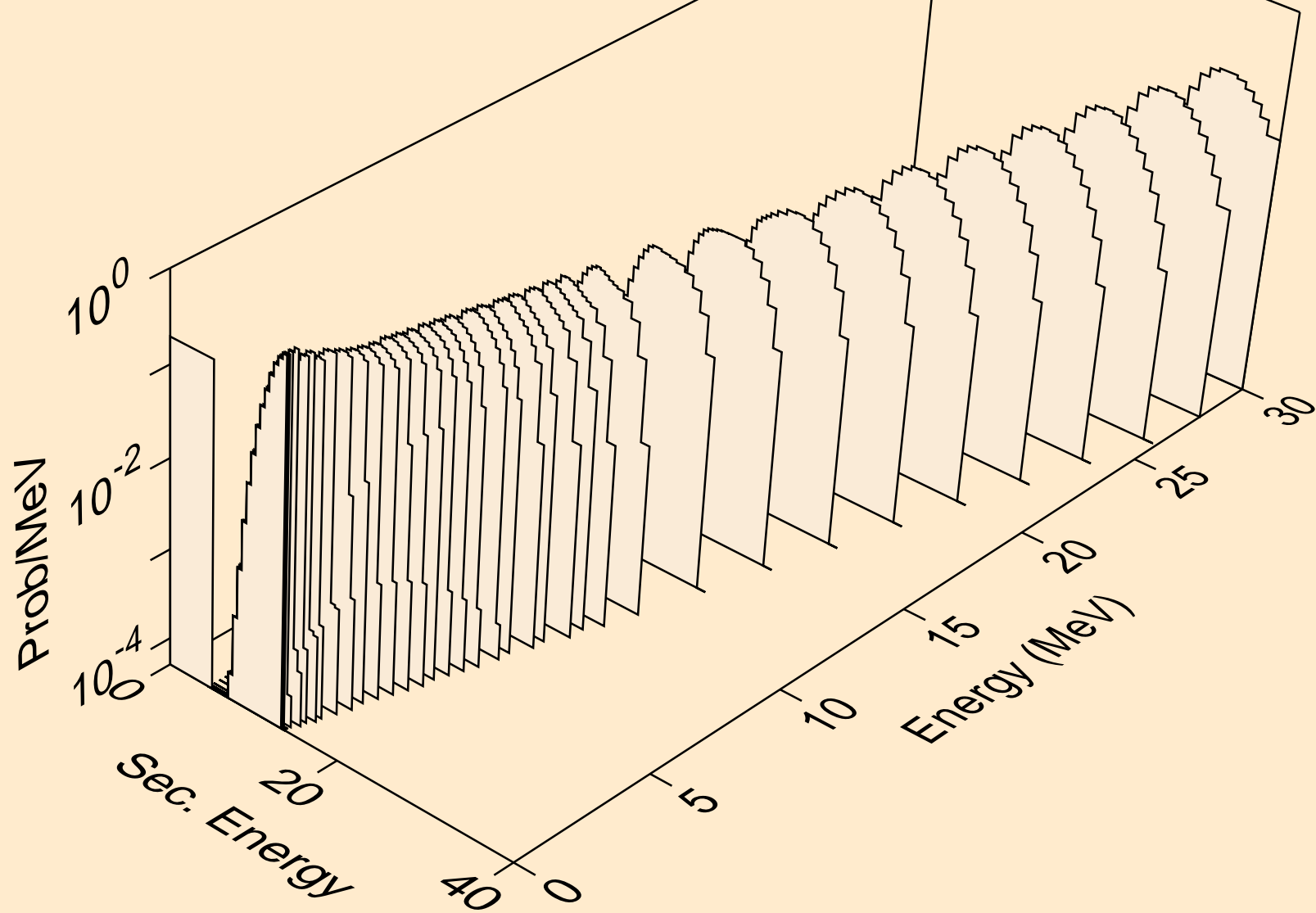


TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)

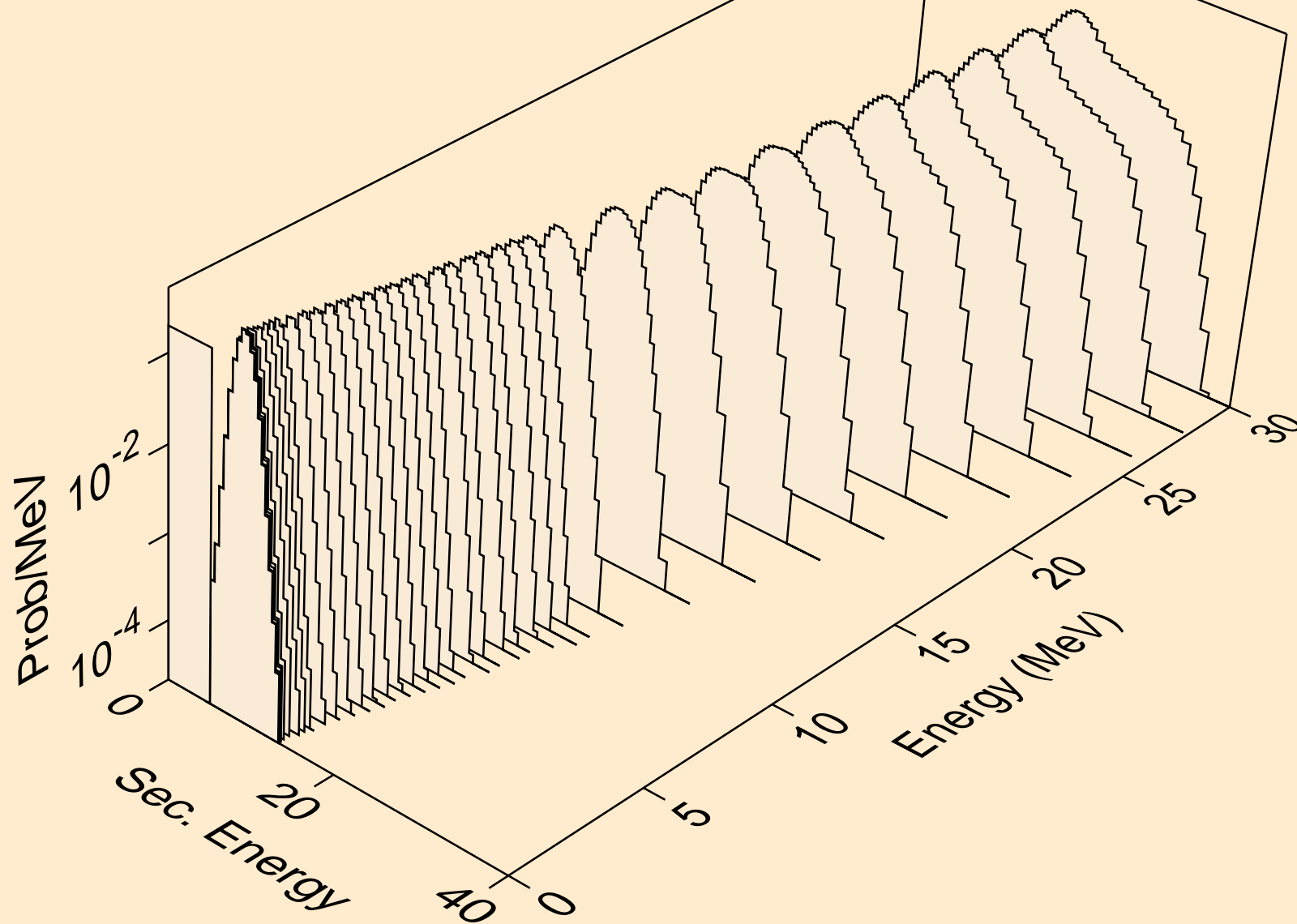




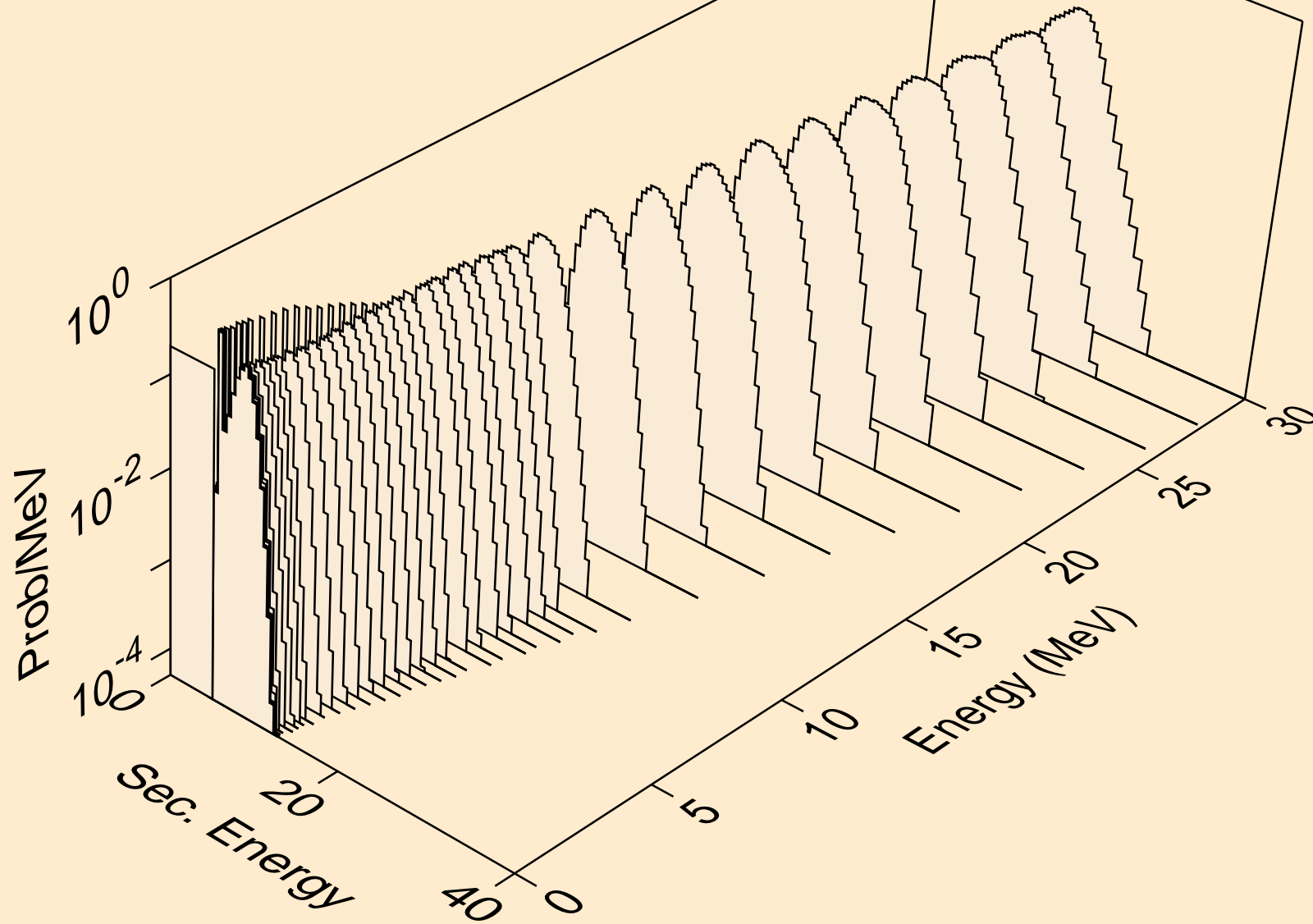
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



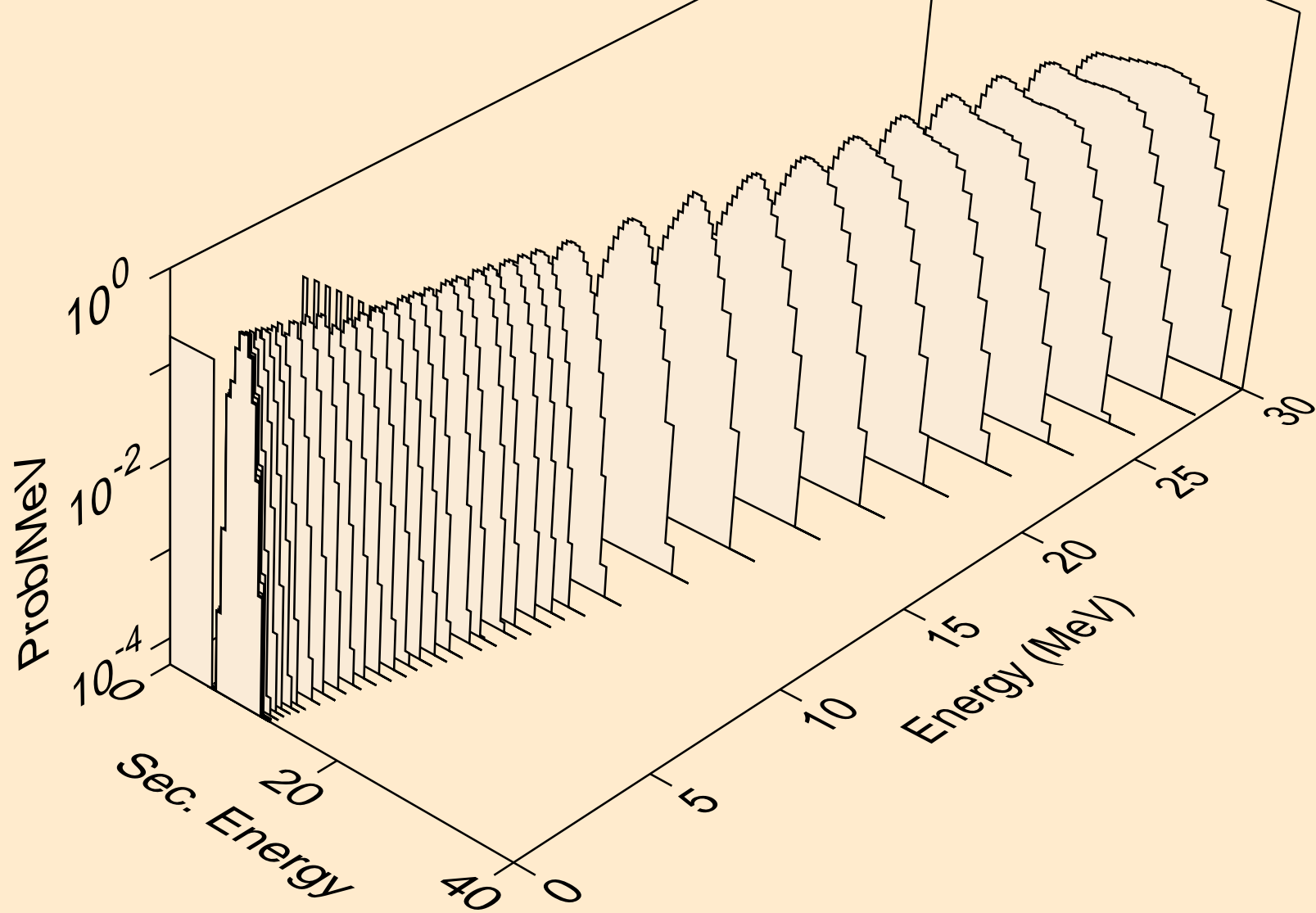
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alphas from (n,2a)



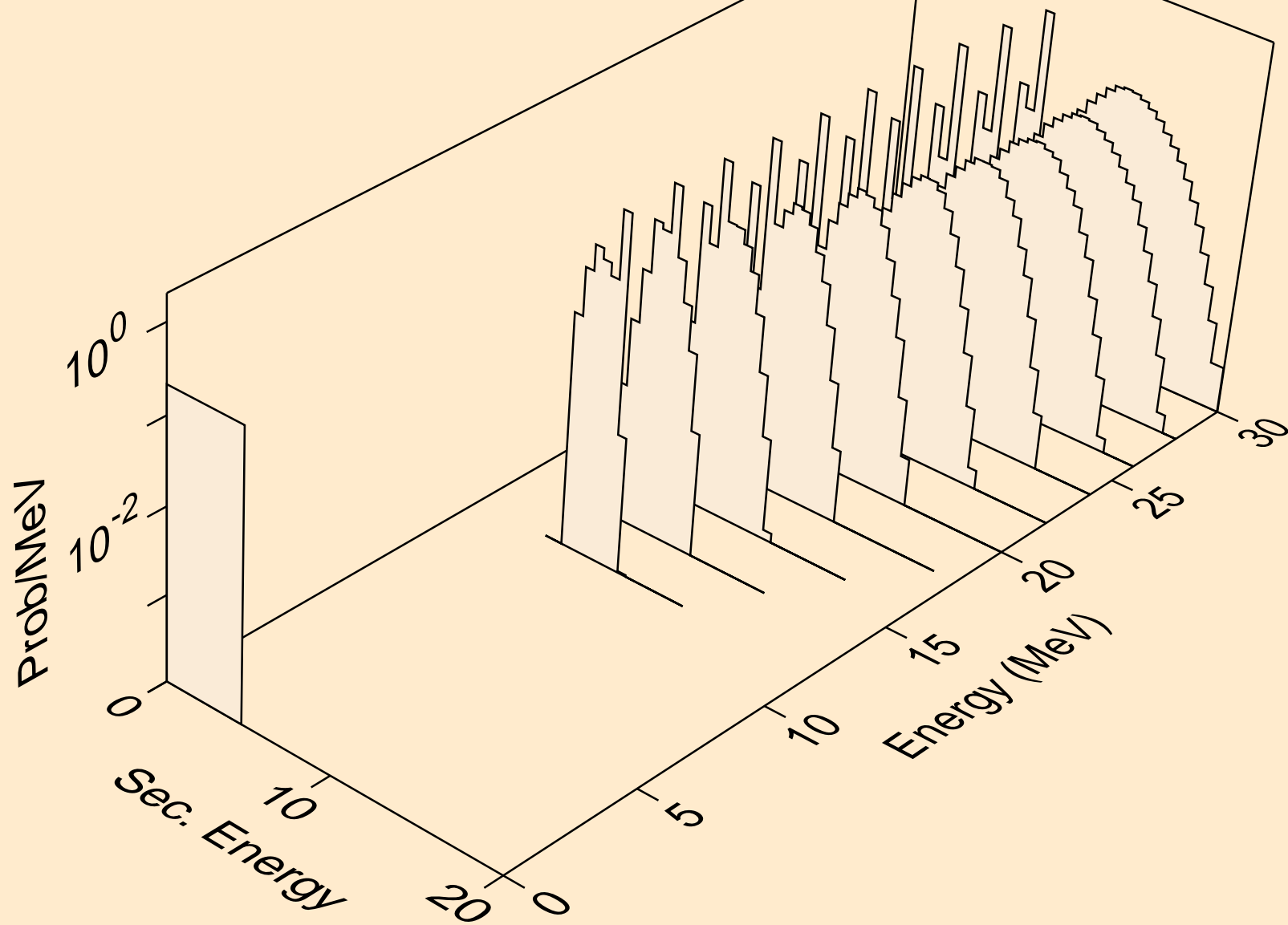
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)



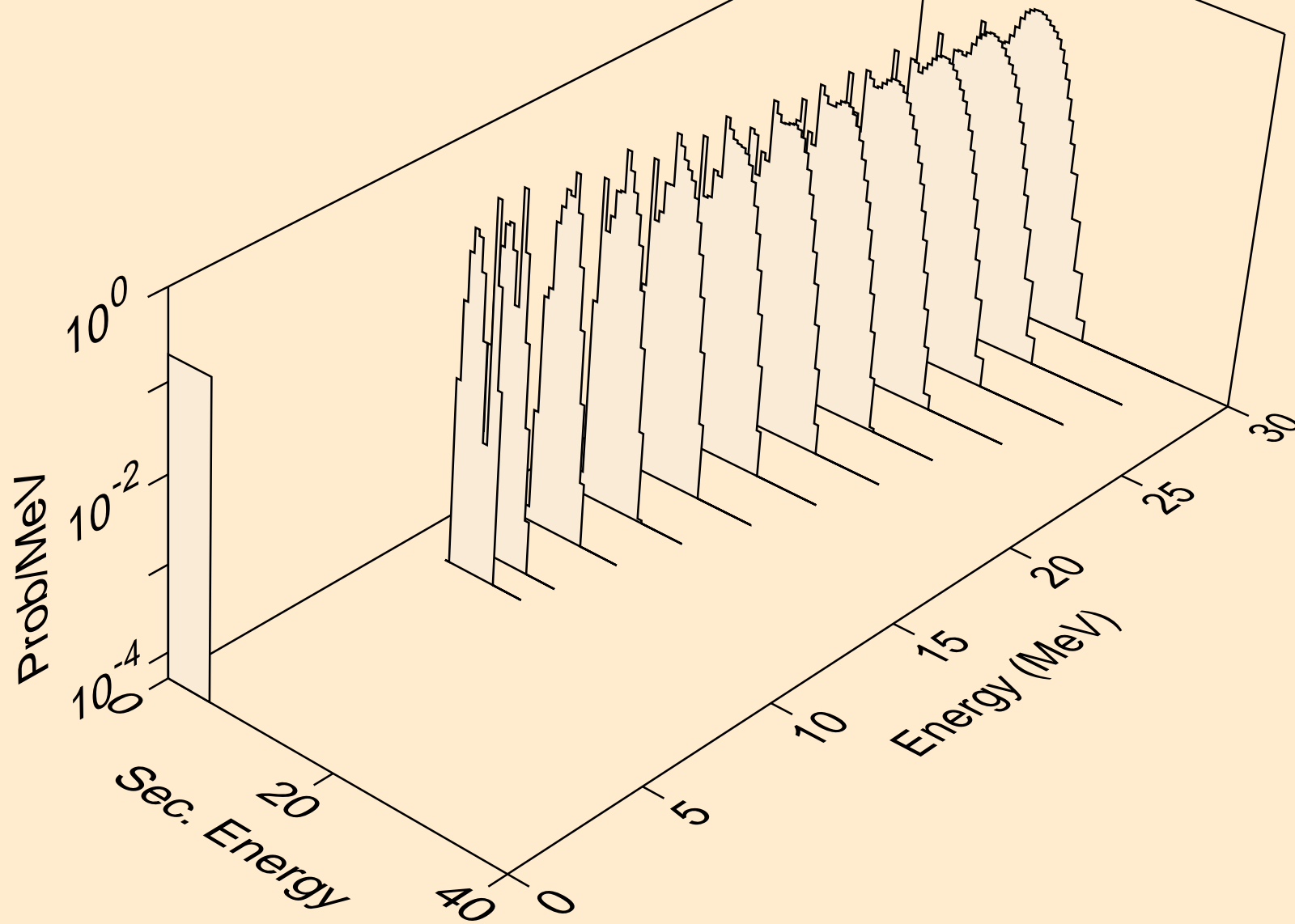
TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,t2a)



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,d2a)



TA161M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

