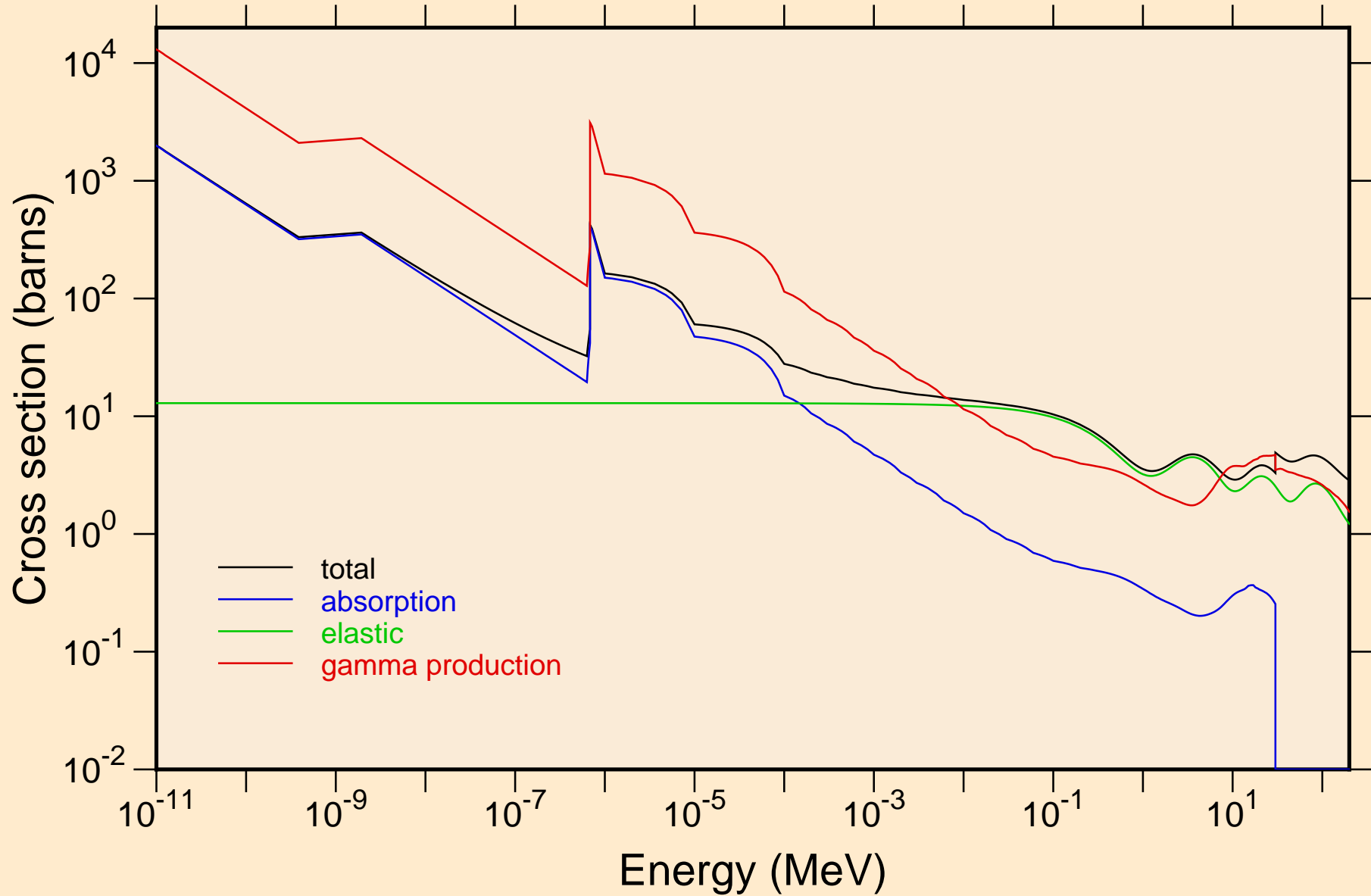


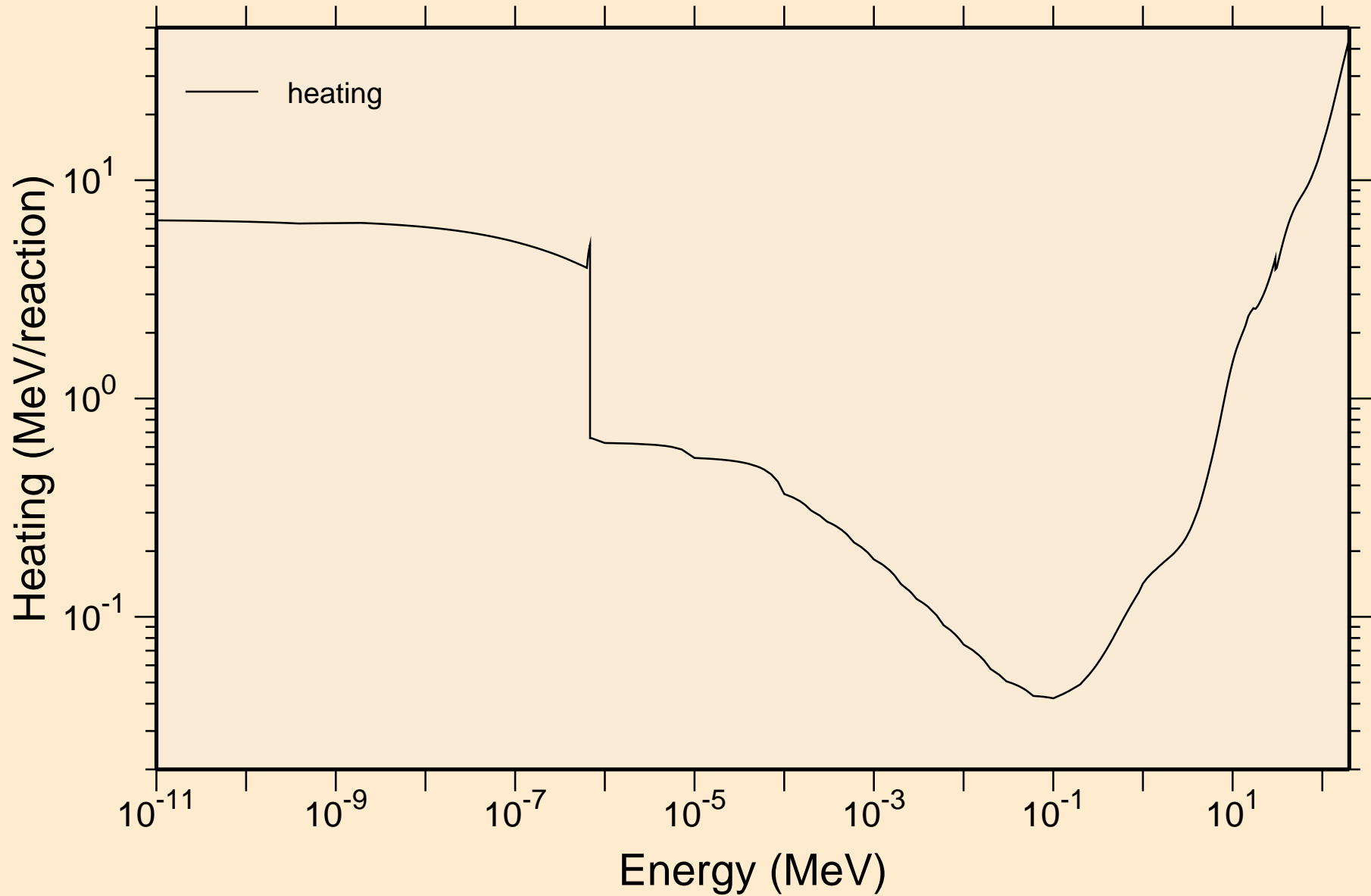
# BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



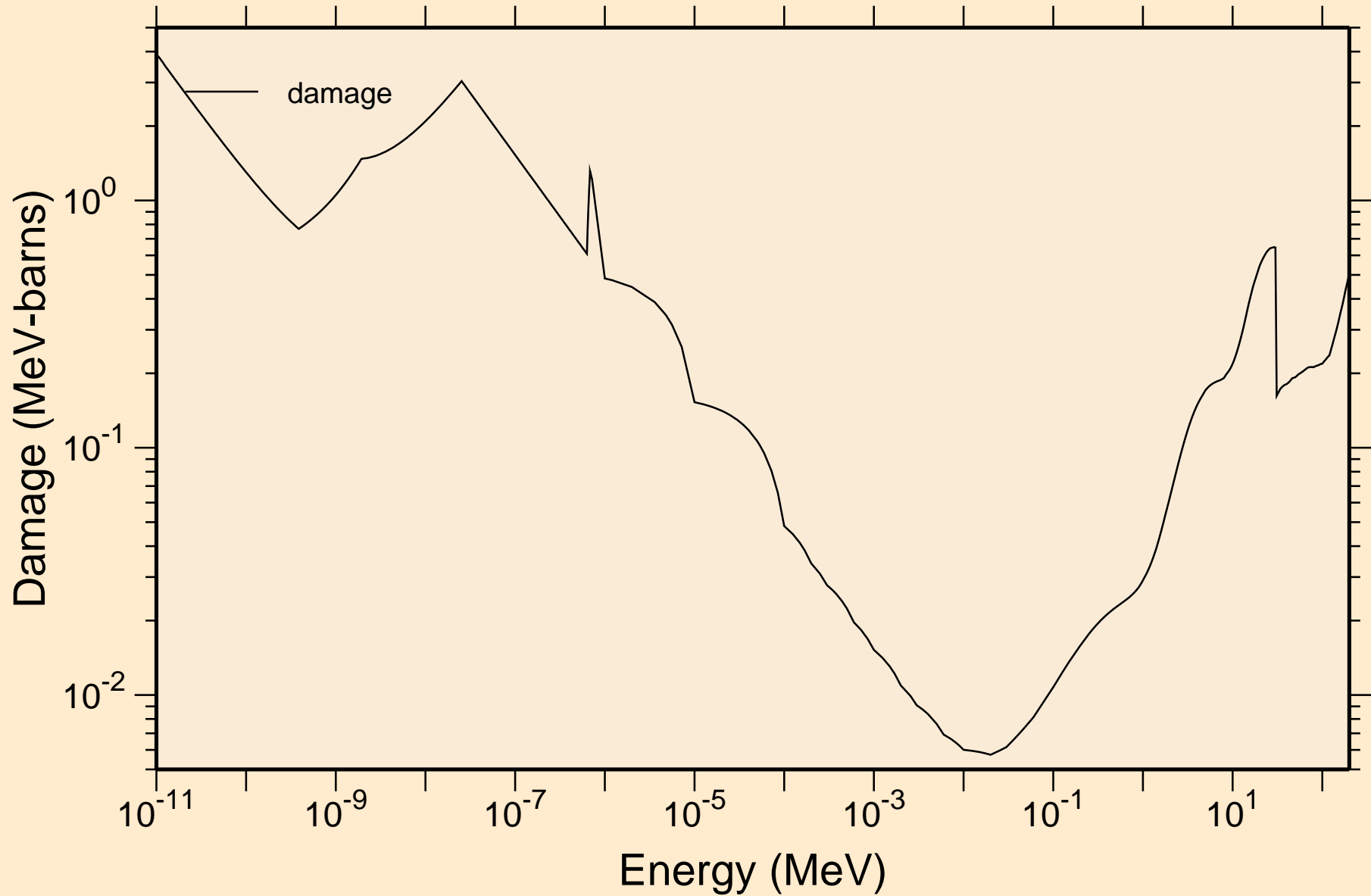
# BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

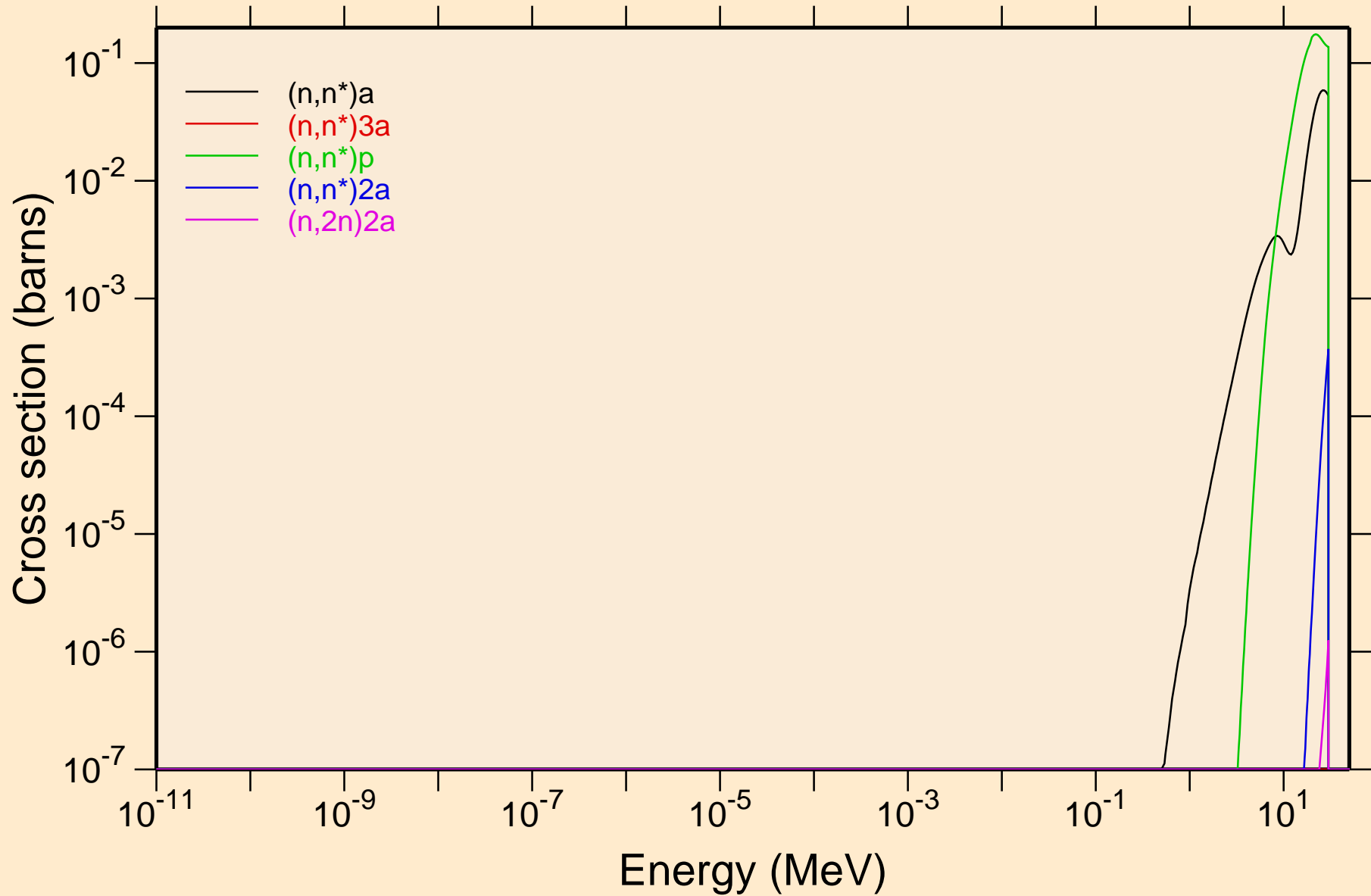


# BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

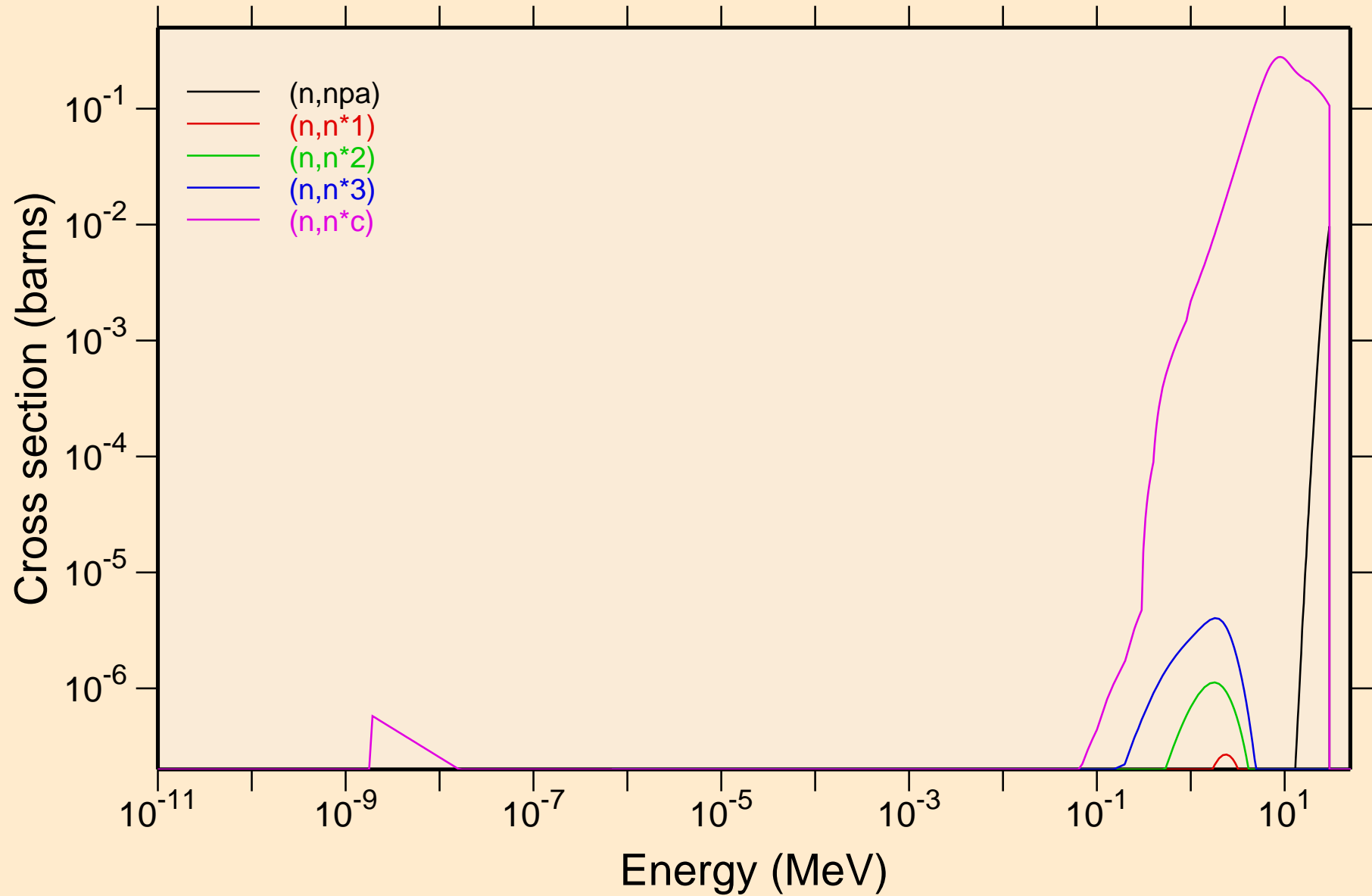
## Damage



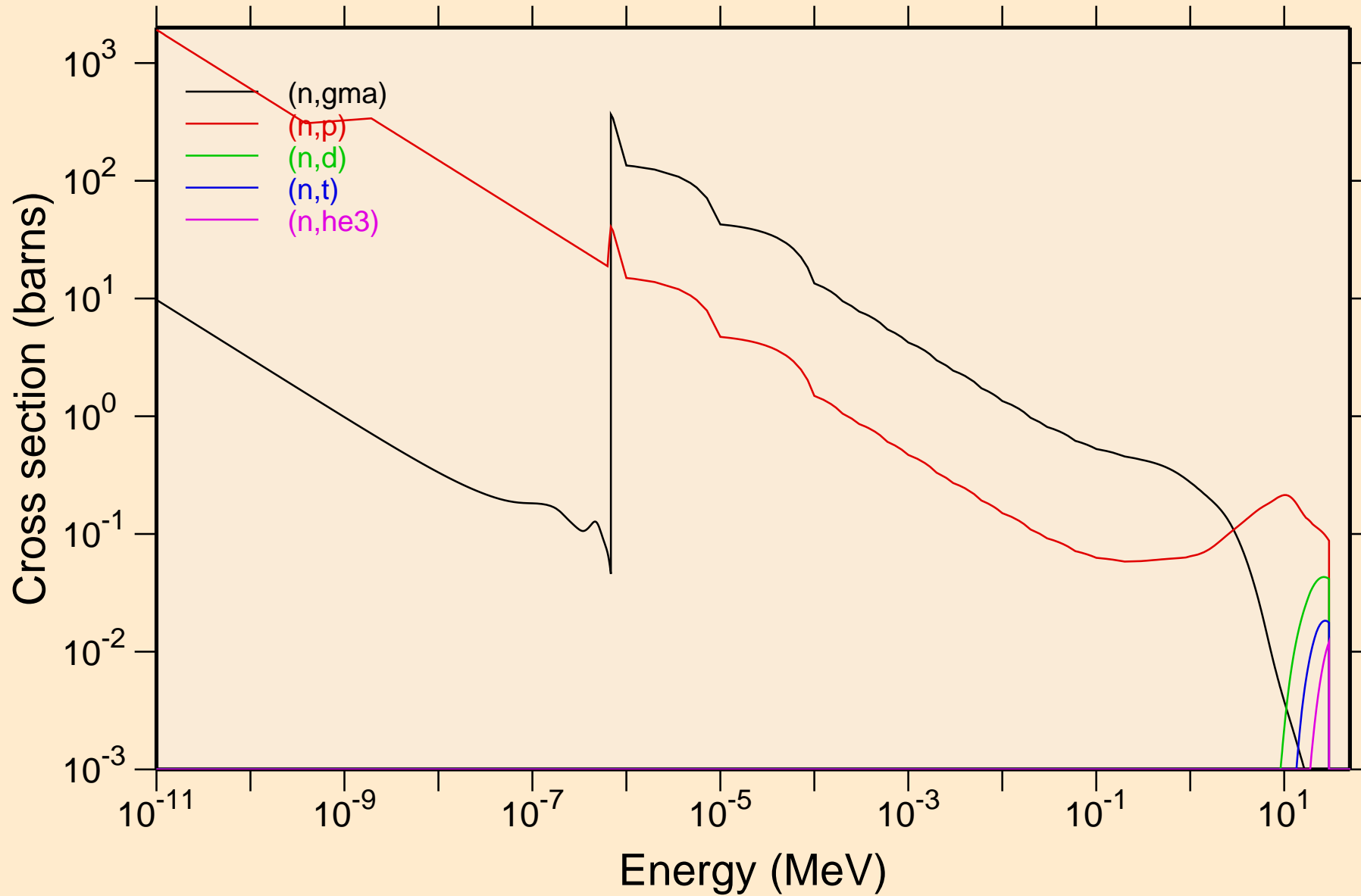
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



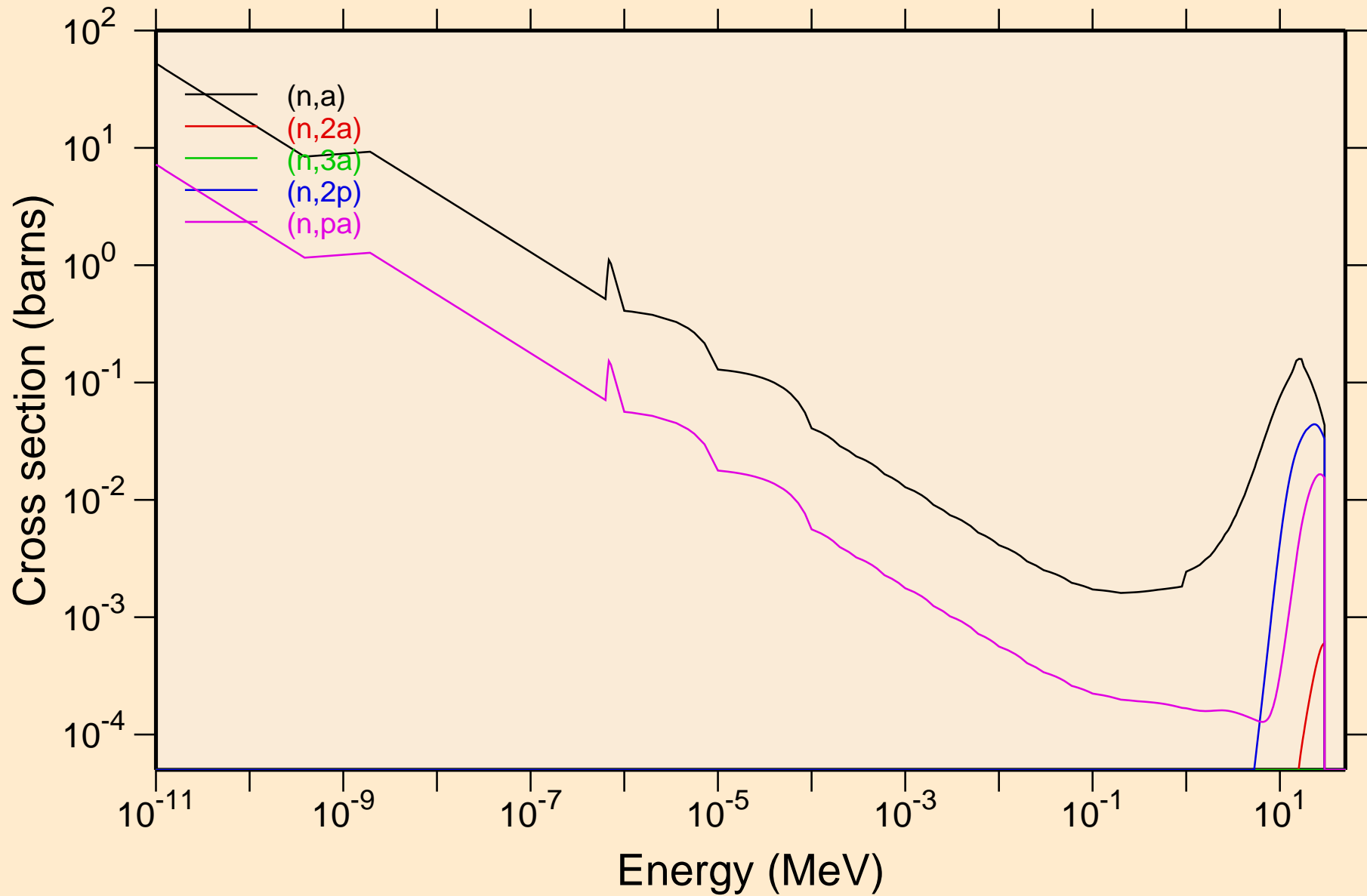
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



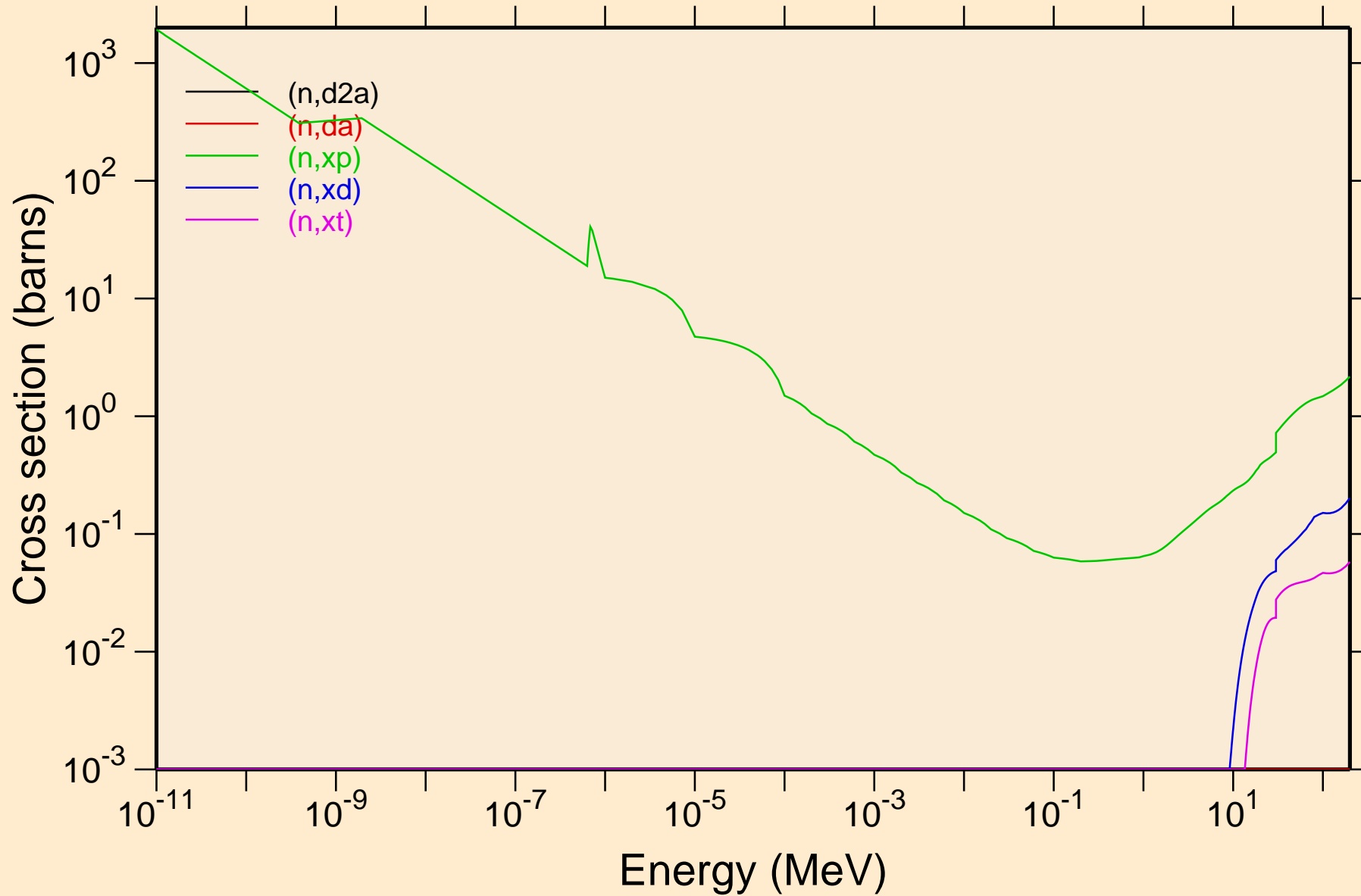
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions

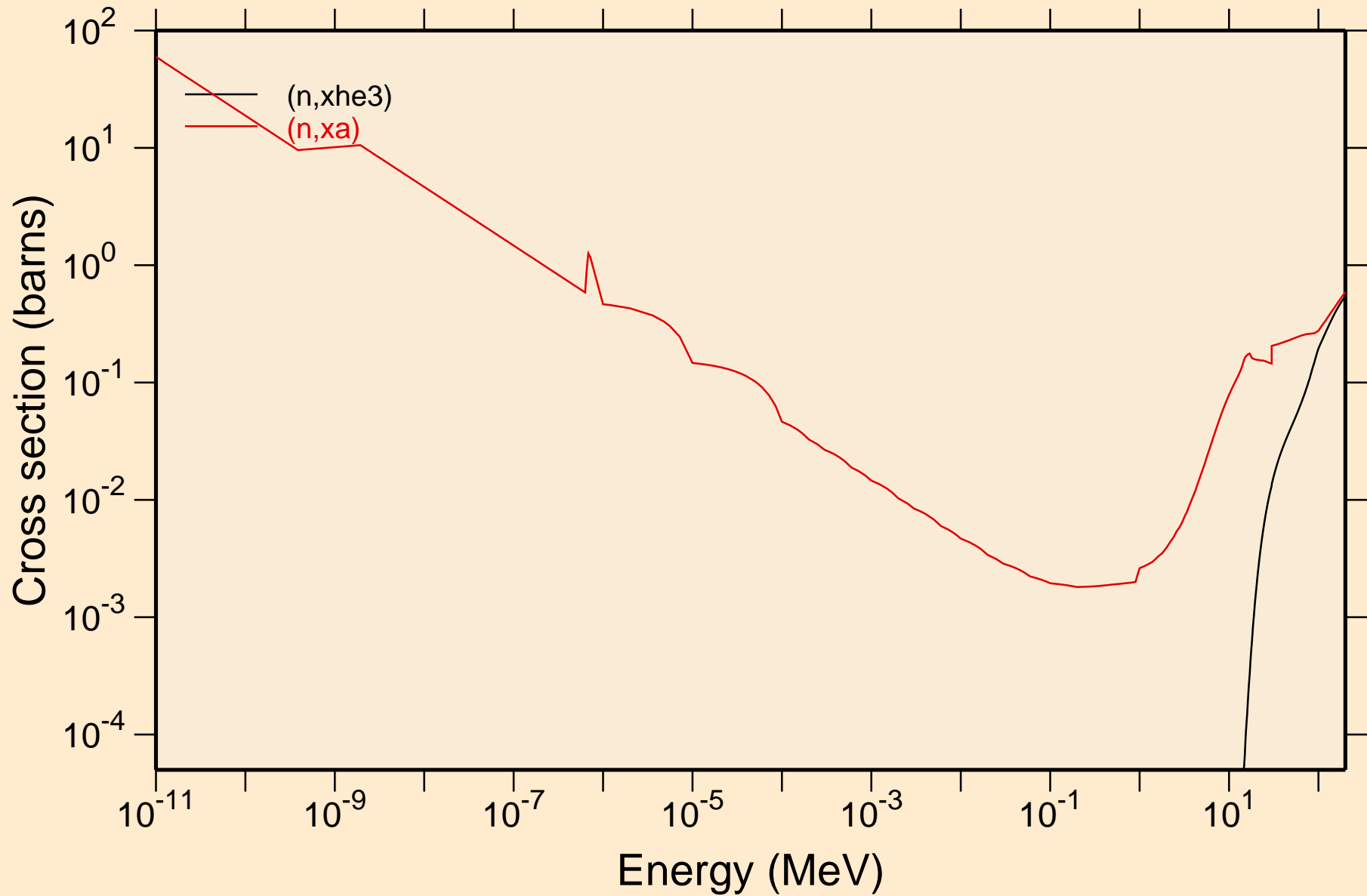


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Non-threshold reactions



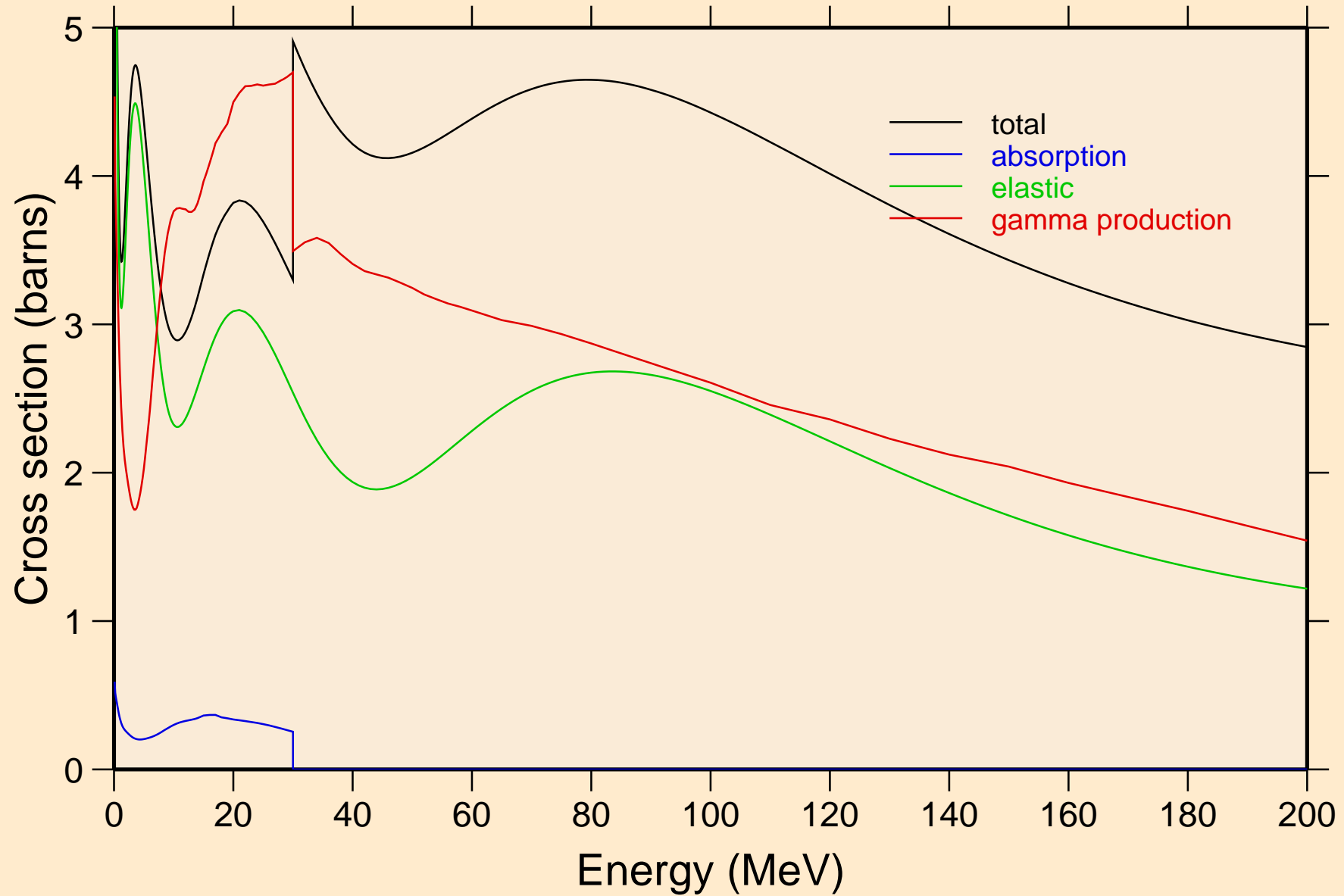


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Non-threshold reactions



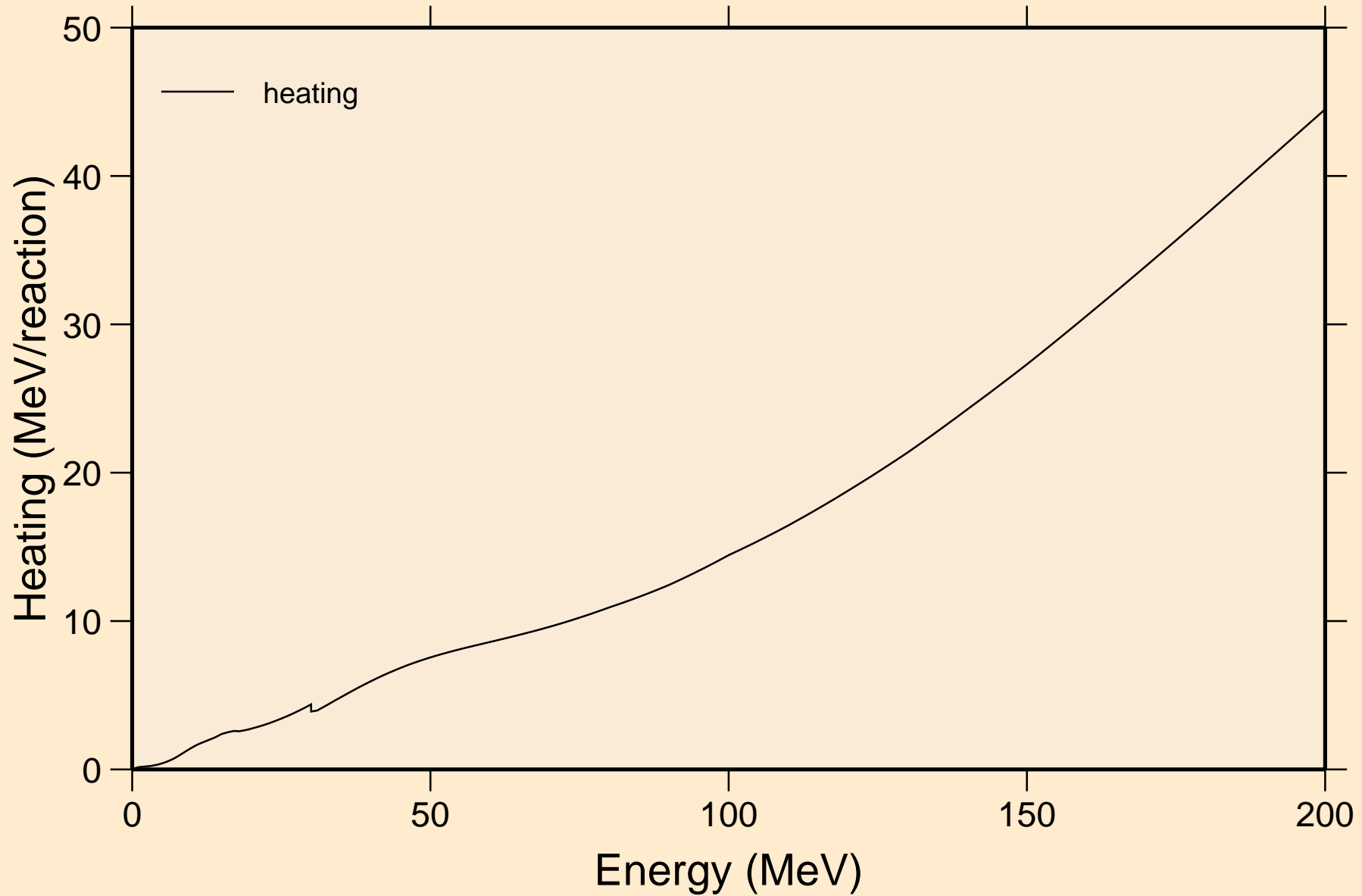
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## Principal cross sections



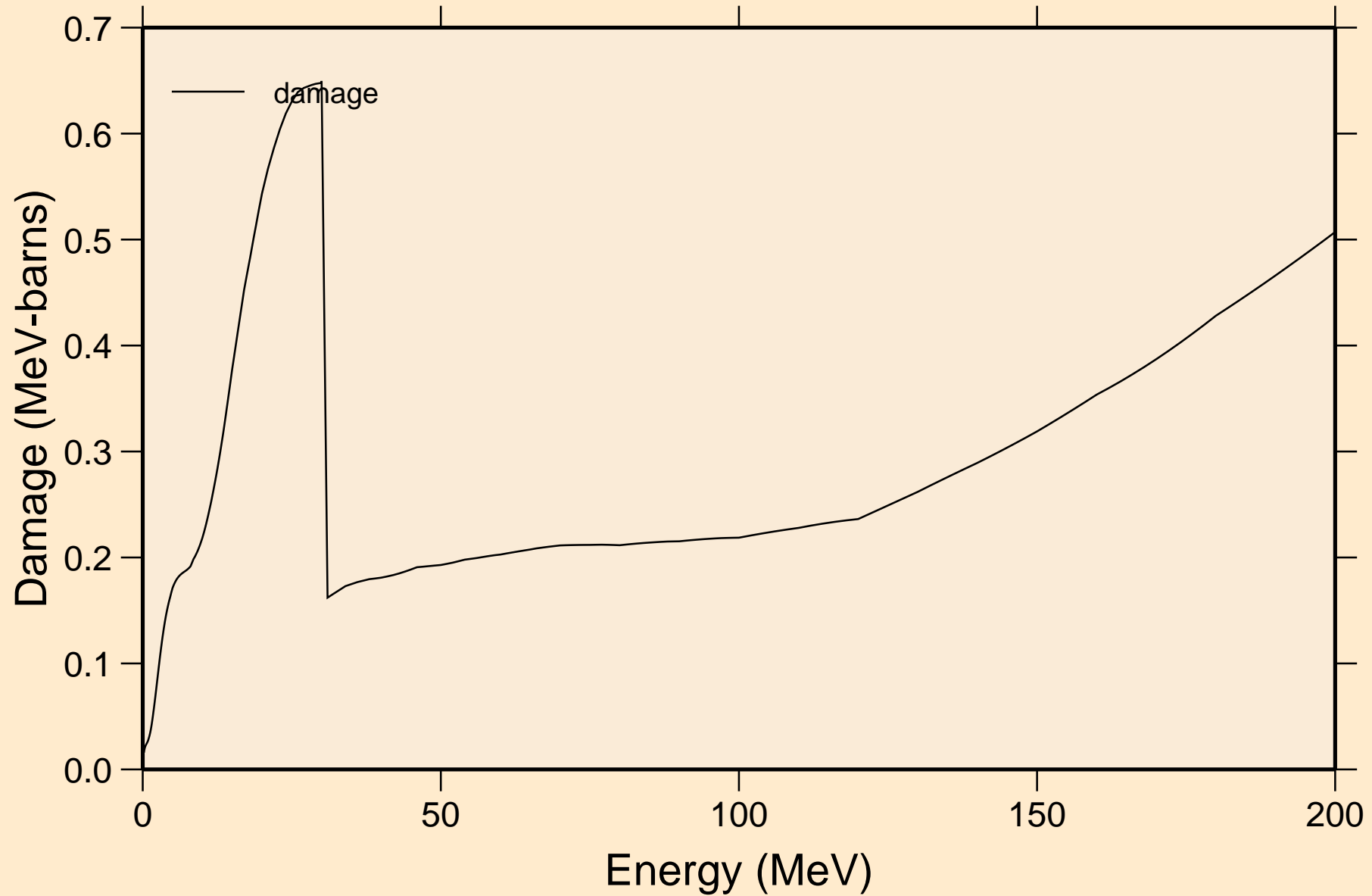
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## Heating

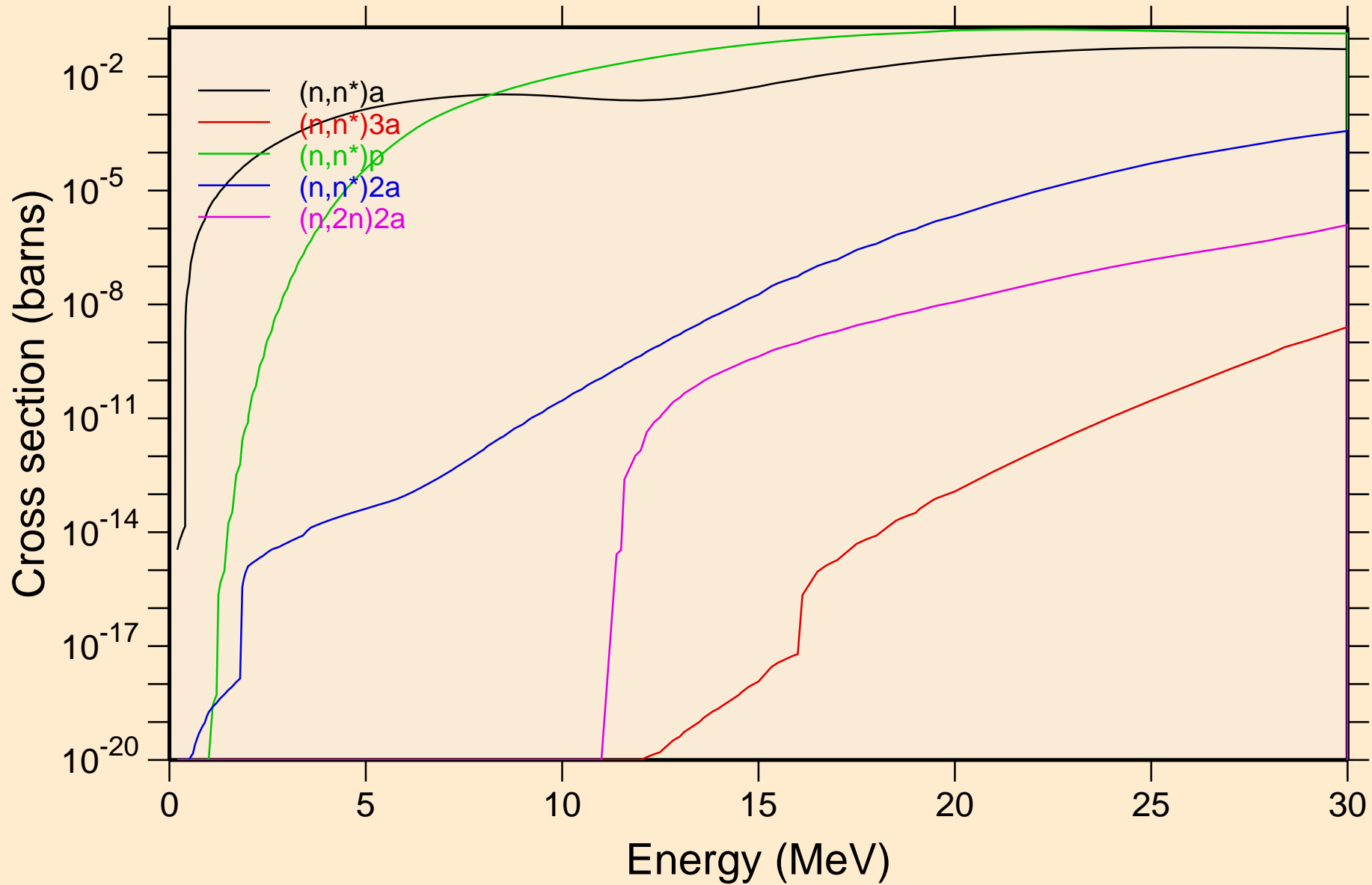


# BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

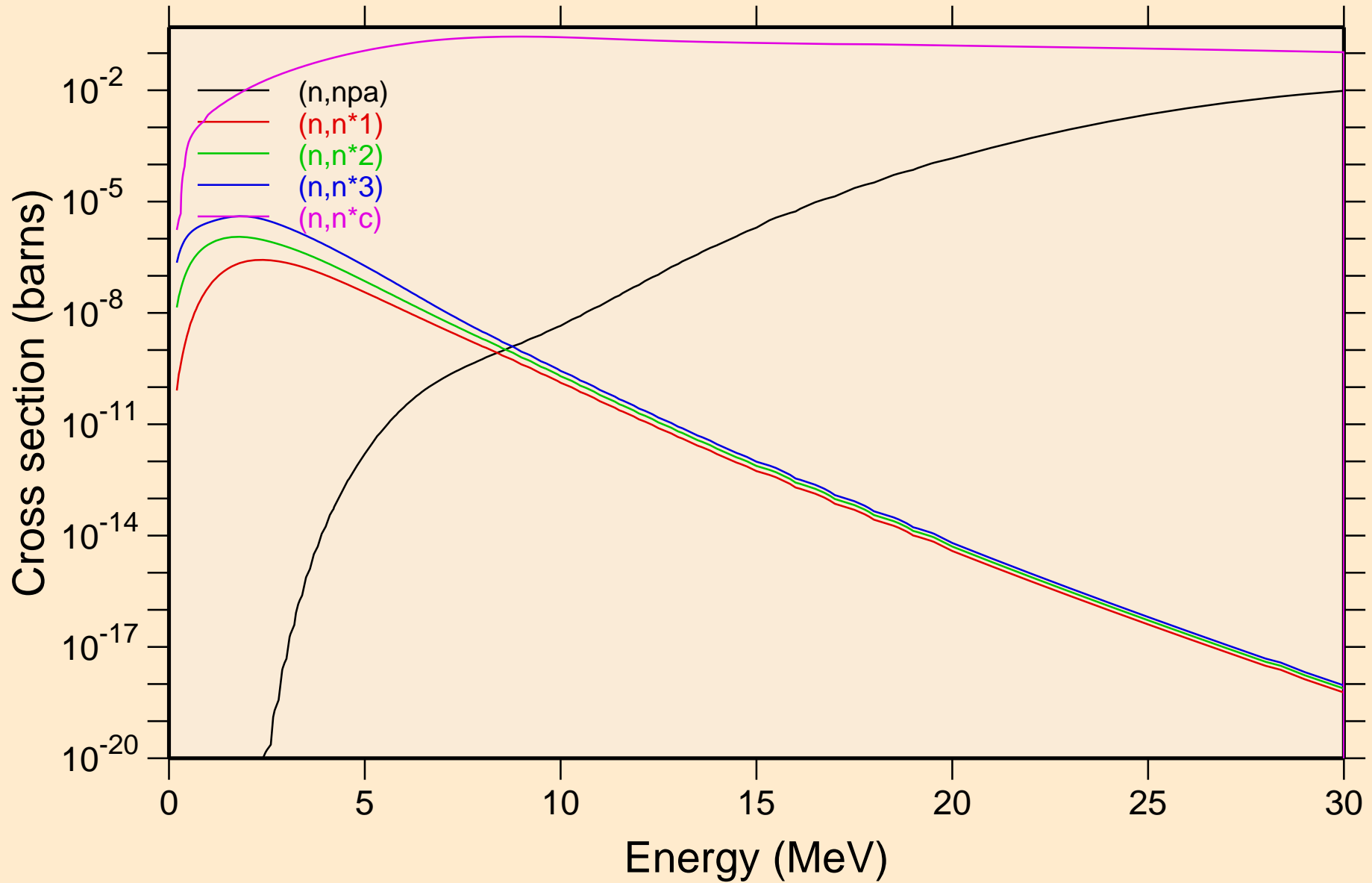
## Damage



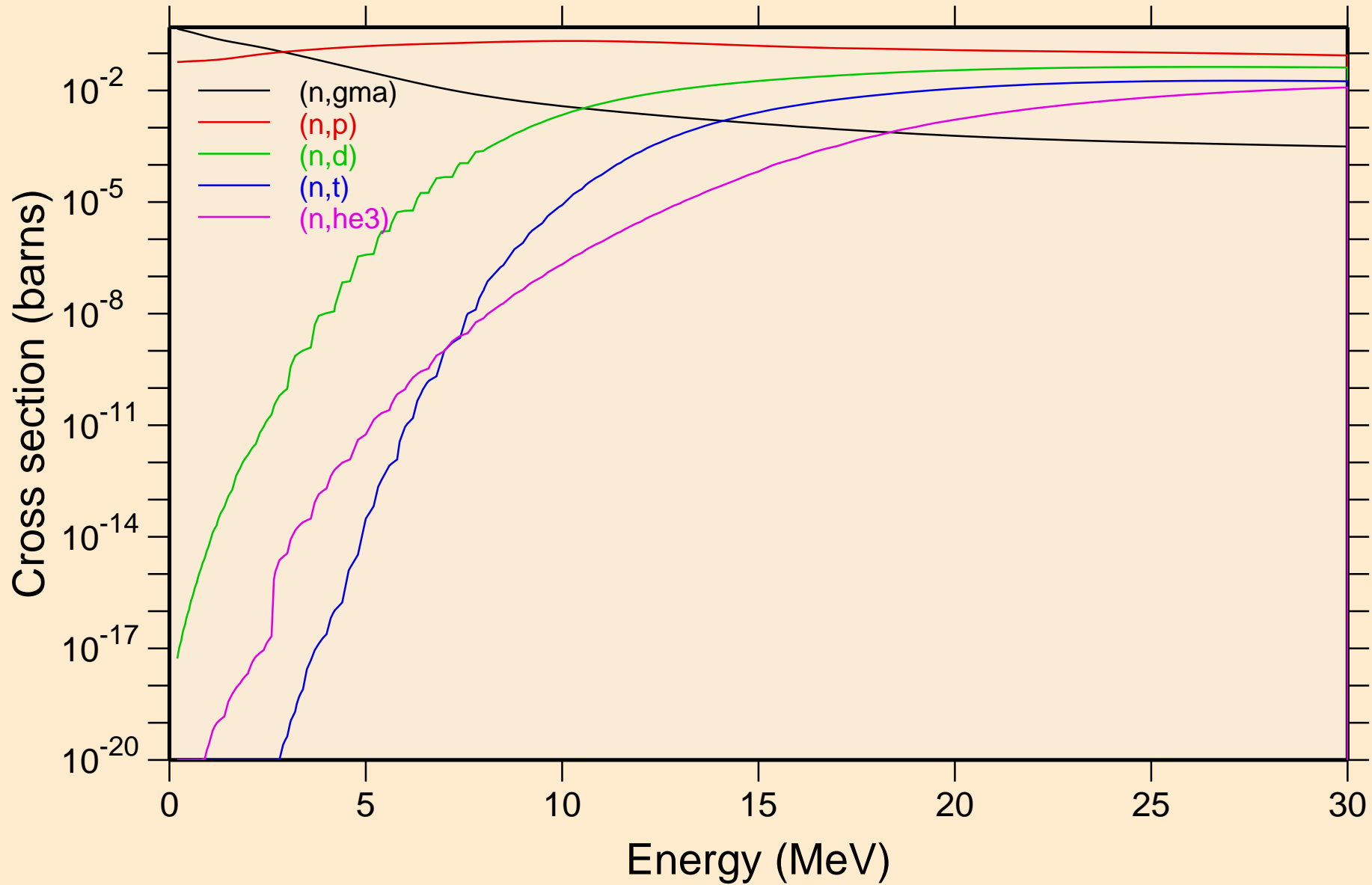
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Non-threshold reactions



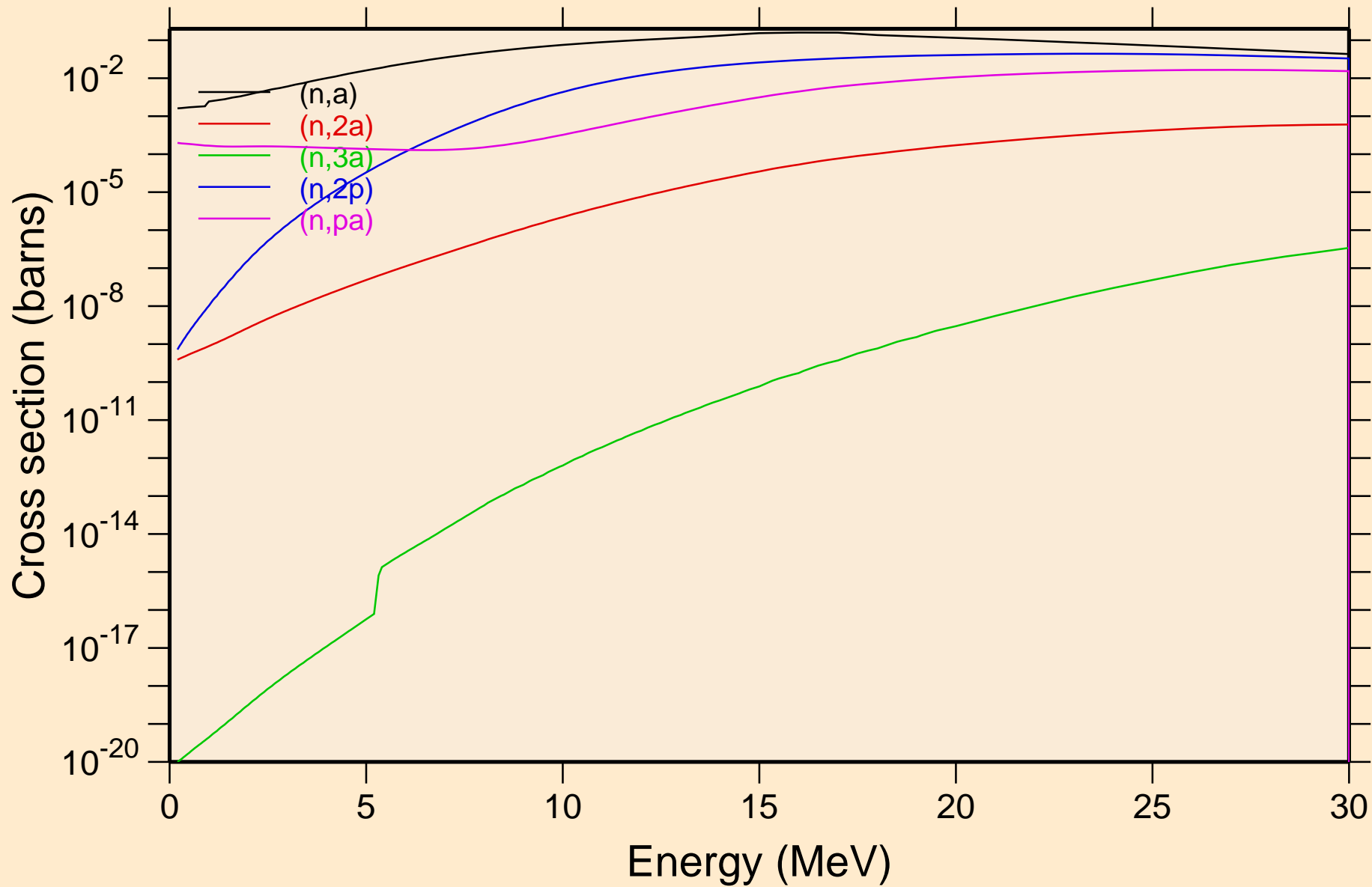
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions

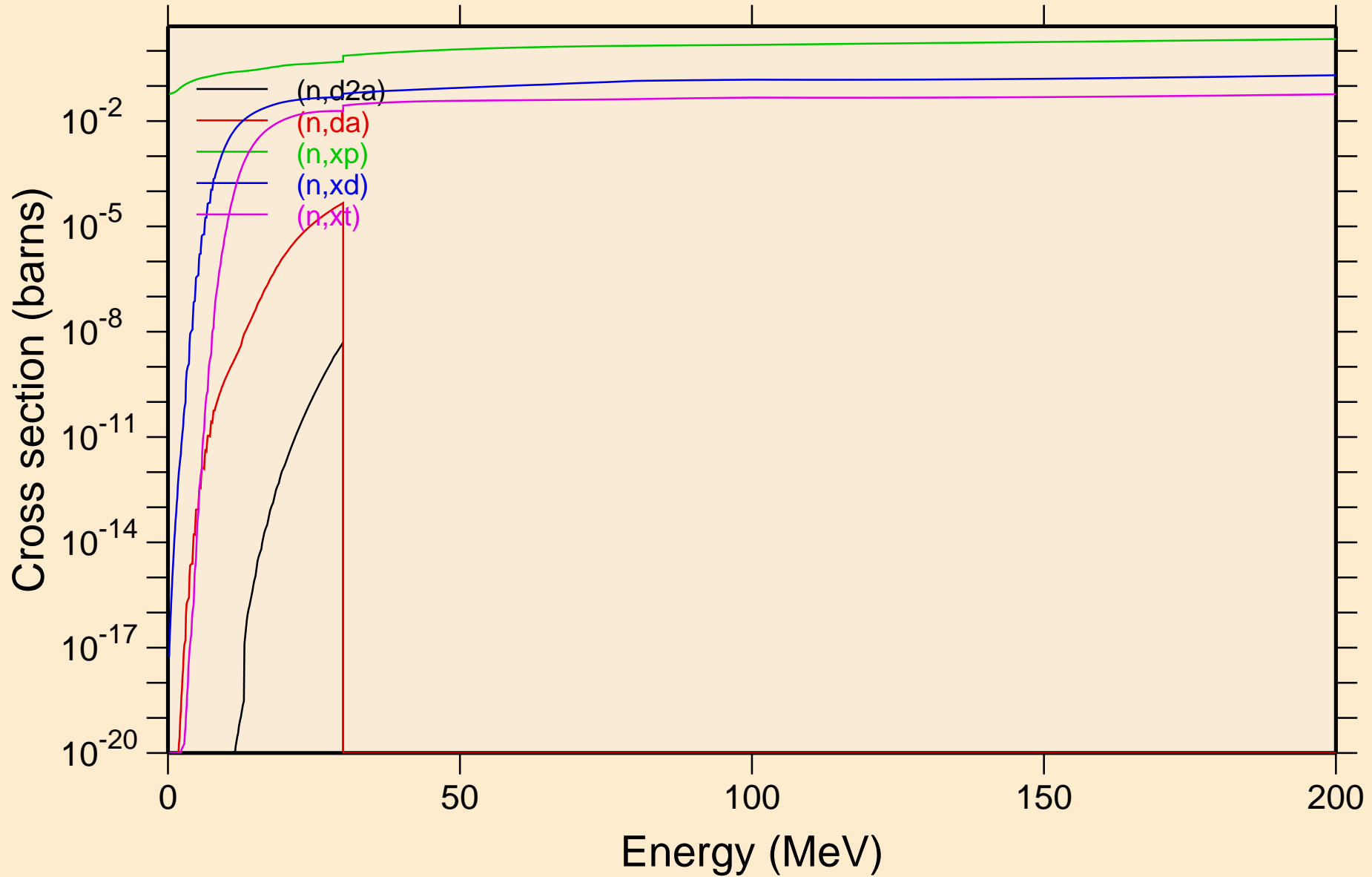


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Non-threshold reactions

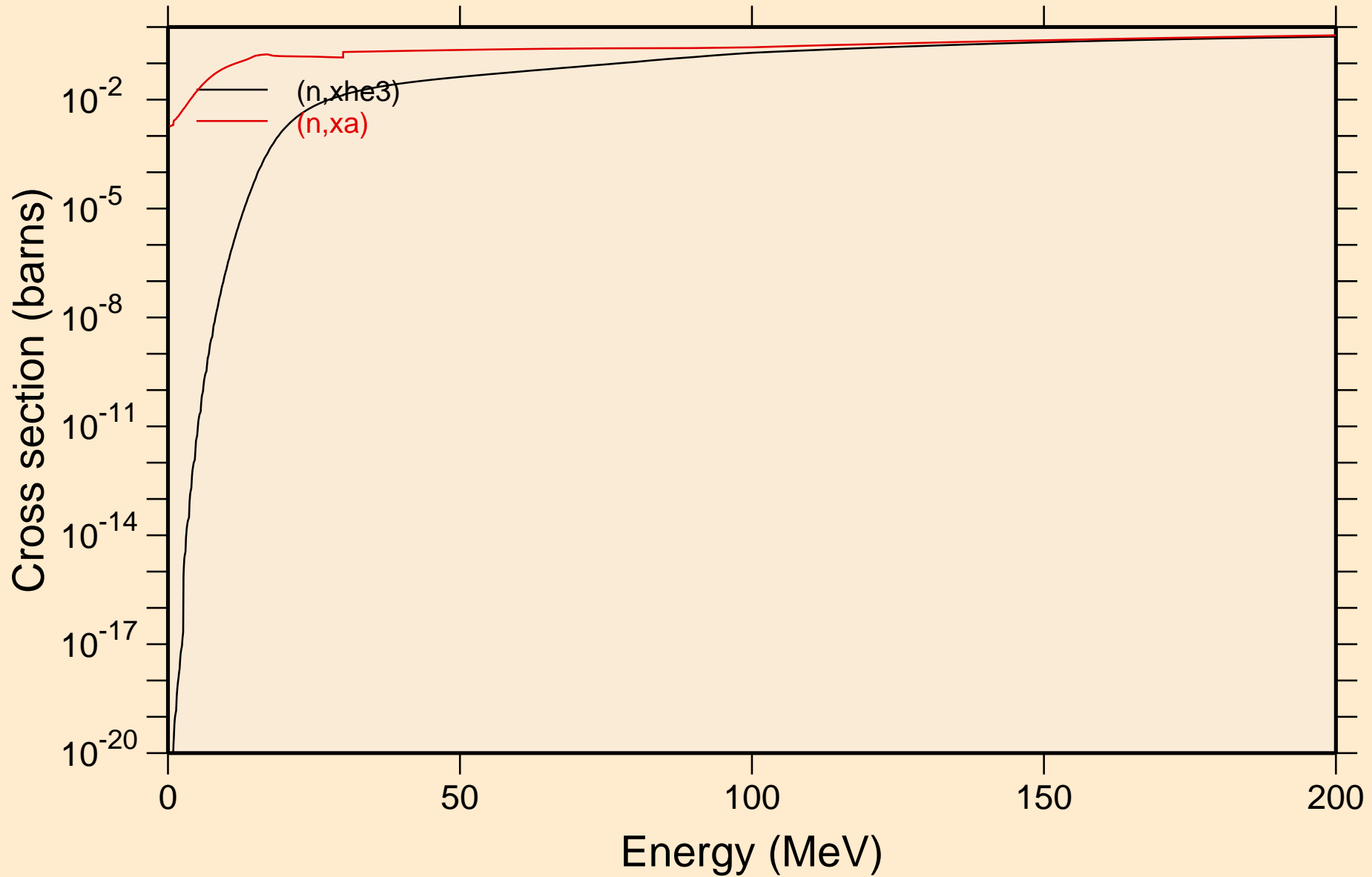




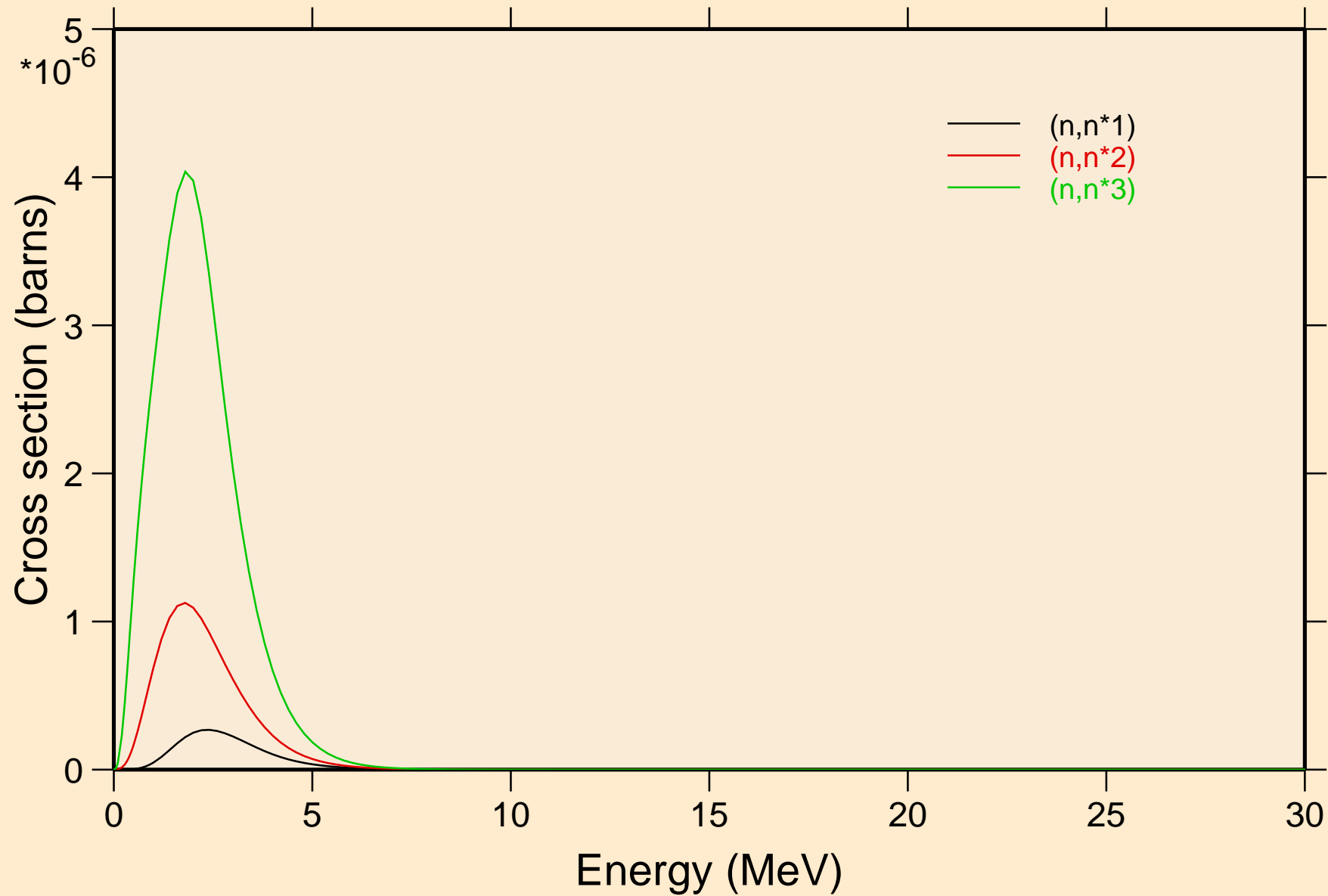
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Non-threshold reactions



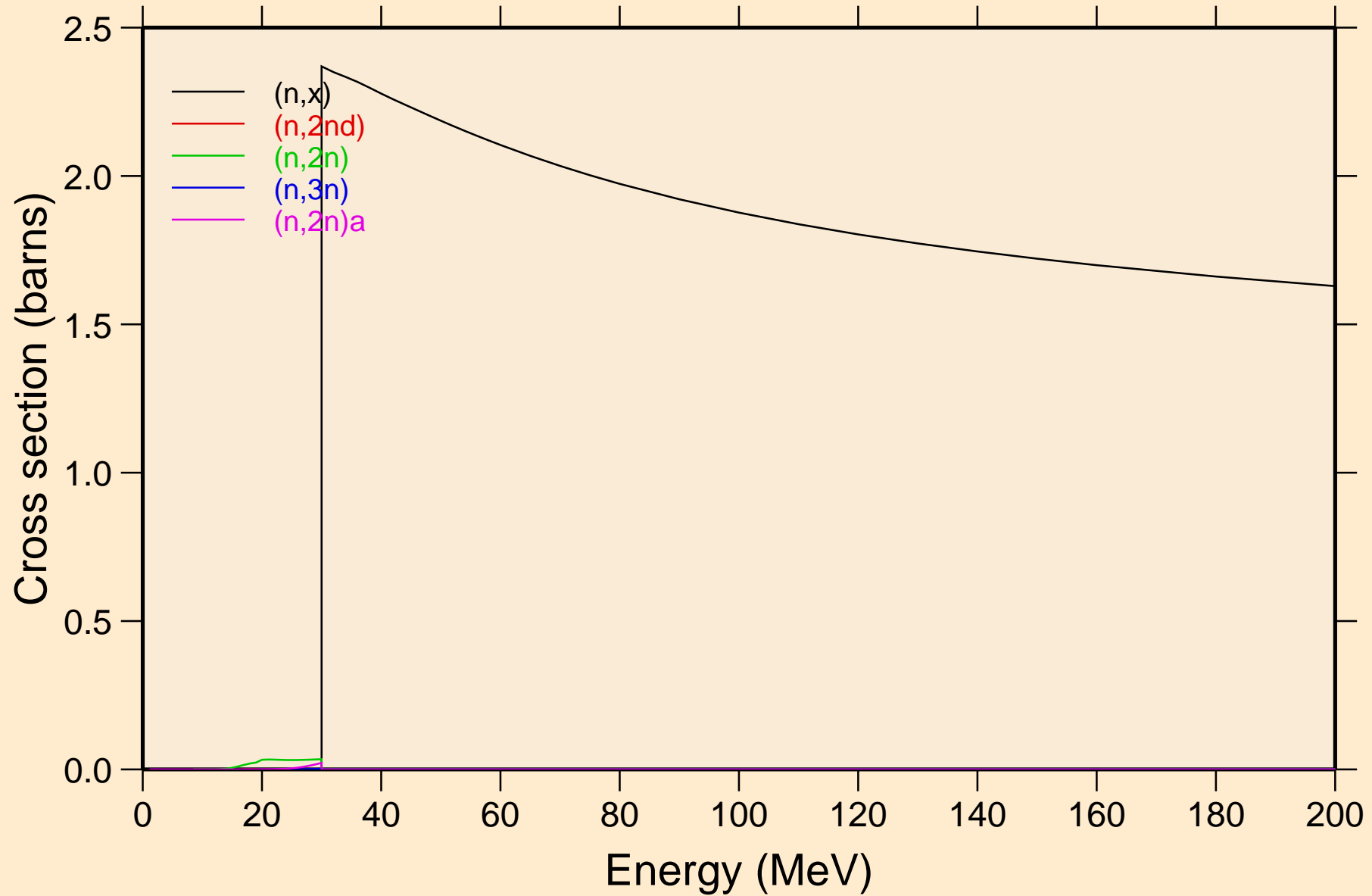
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Non-threshold reactions



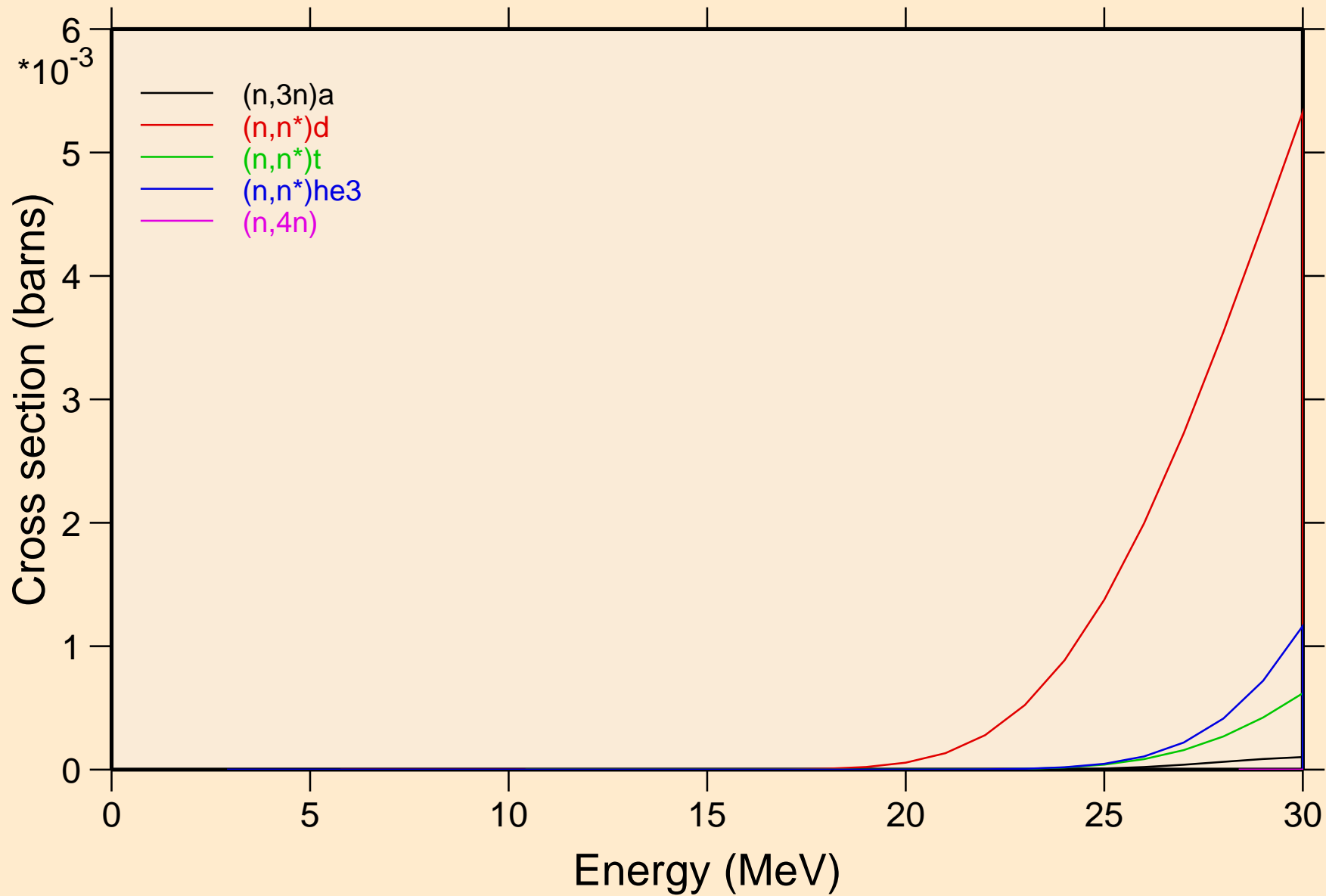
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



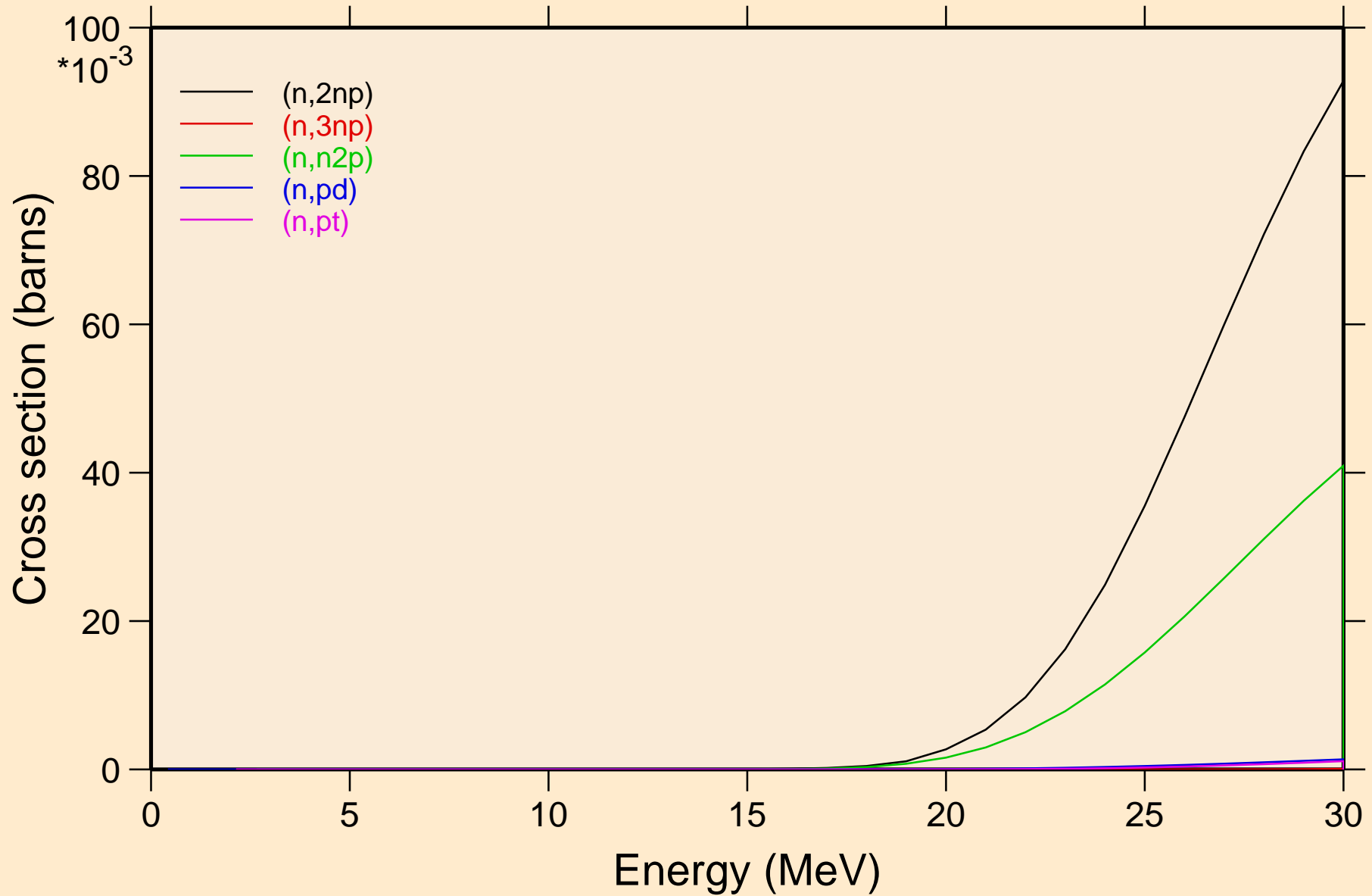
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Threshold reactions



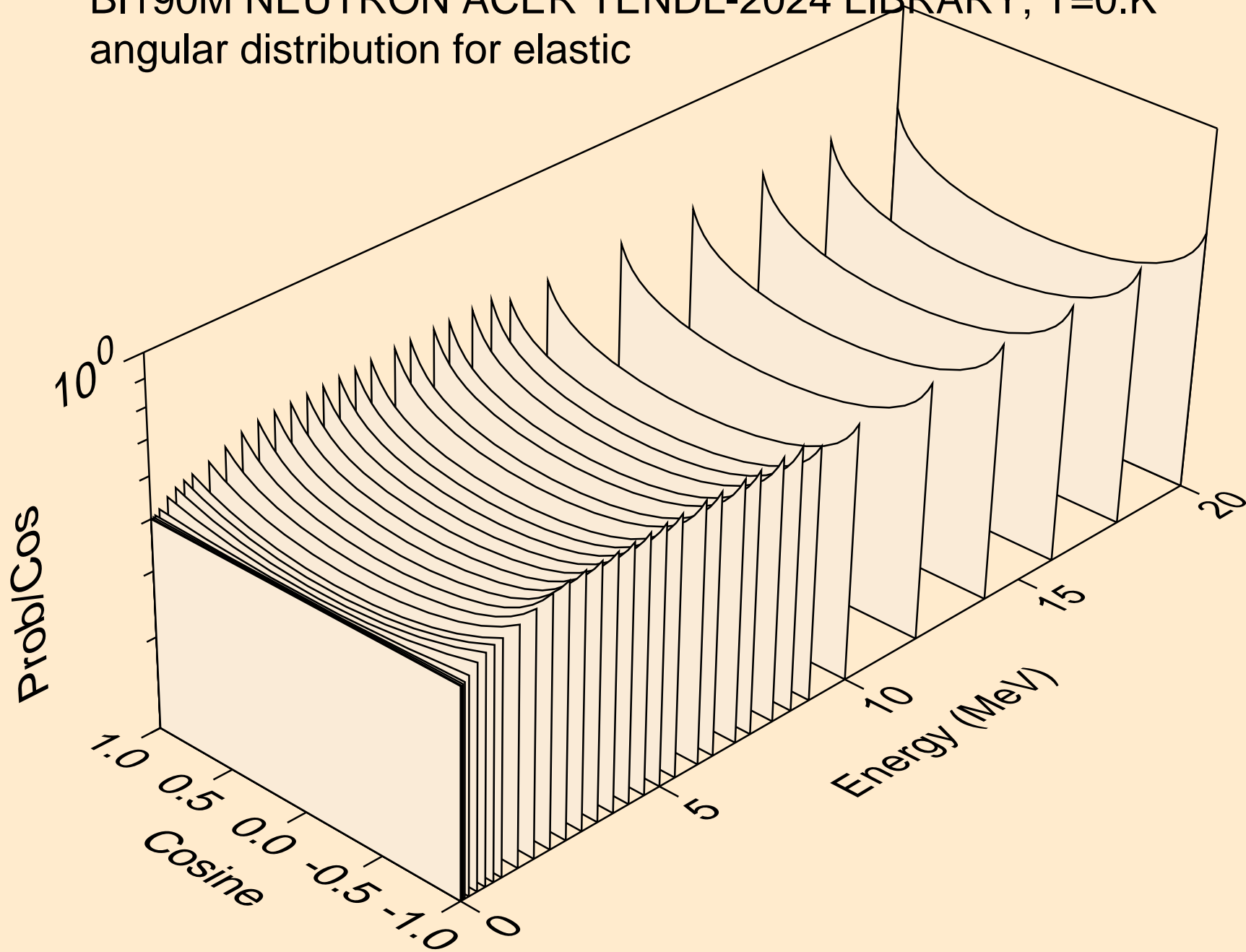
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



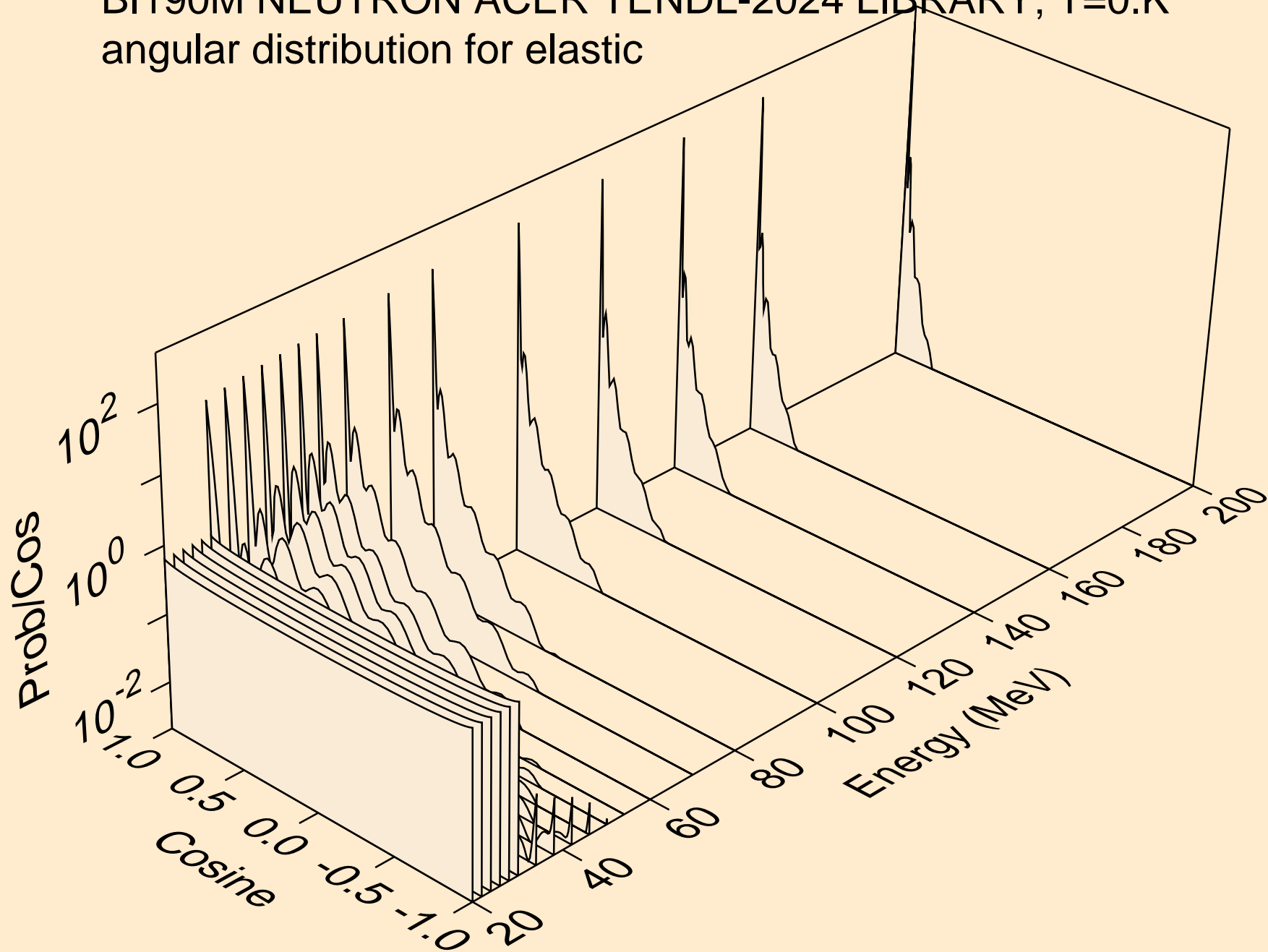
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic

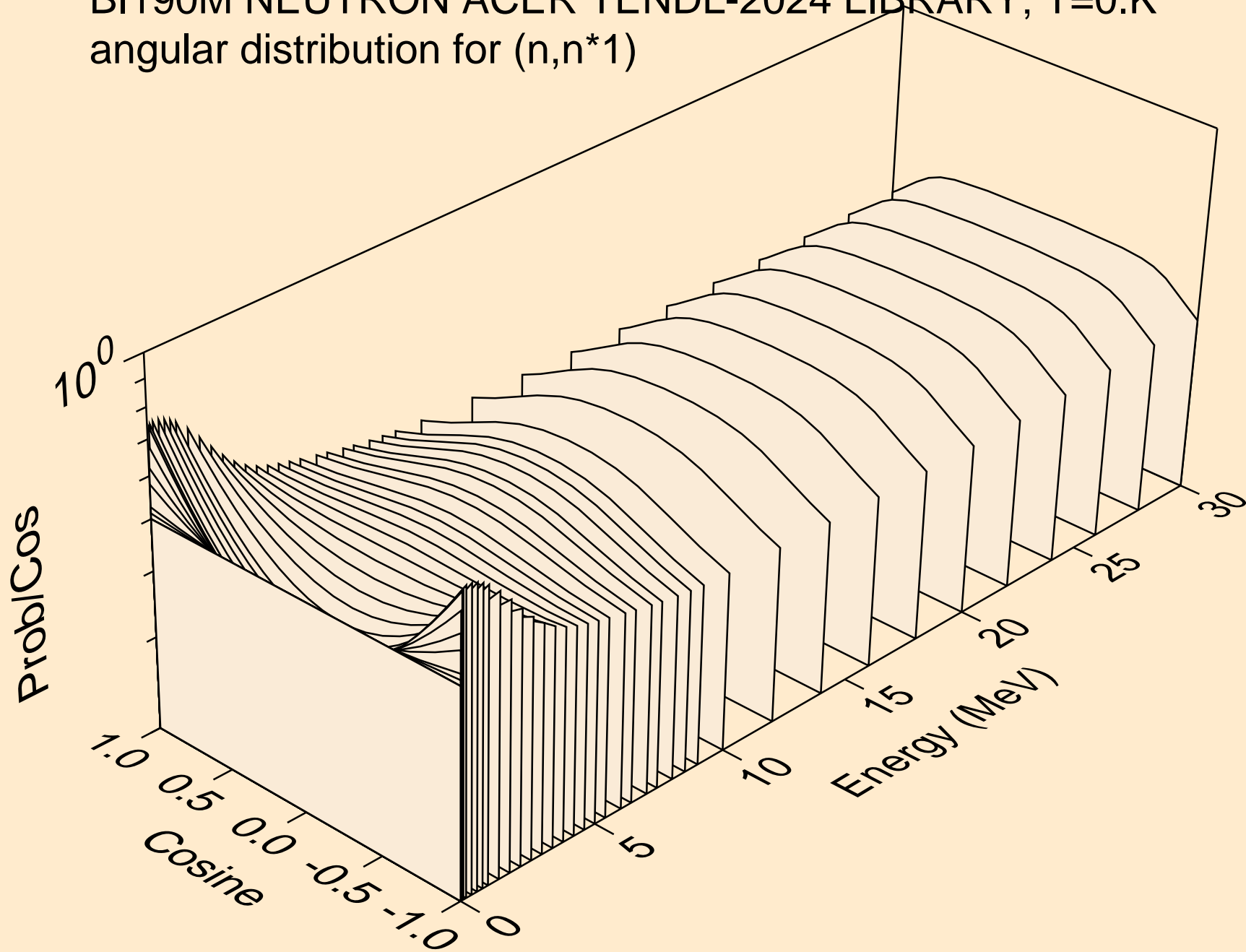


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angular distribution for elastic

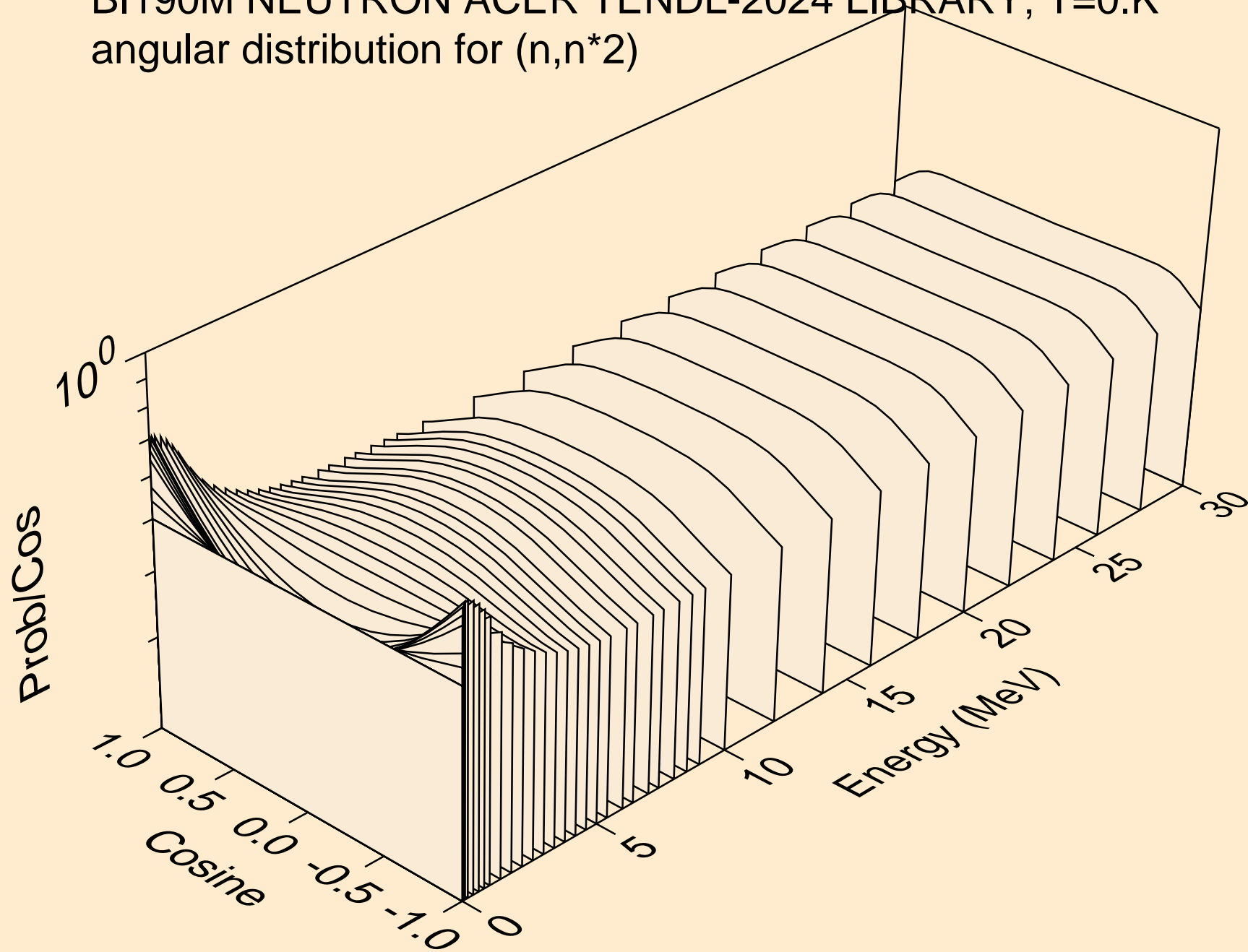




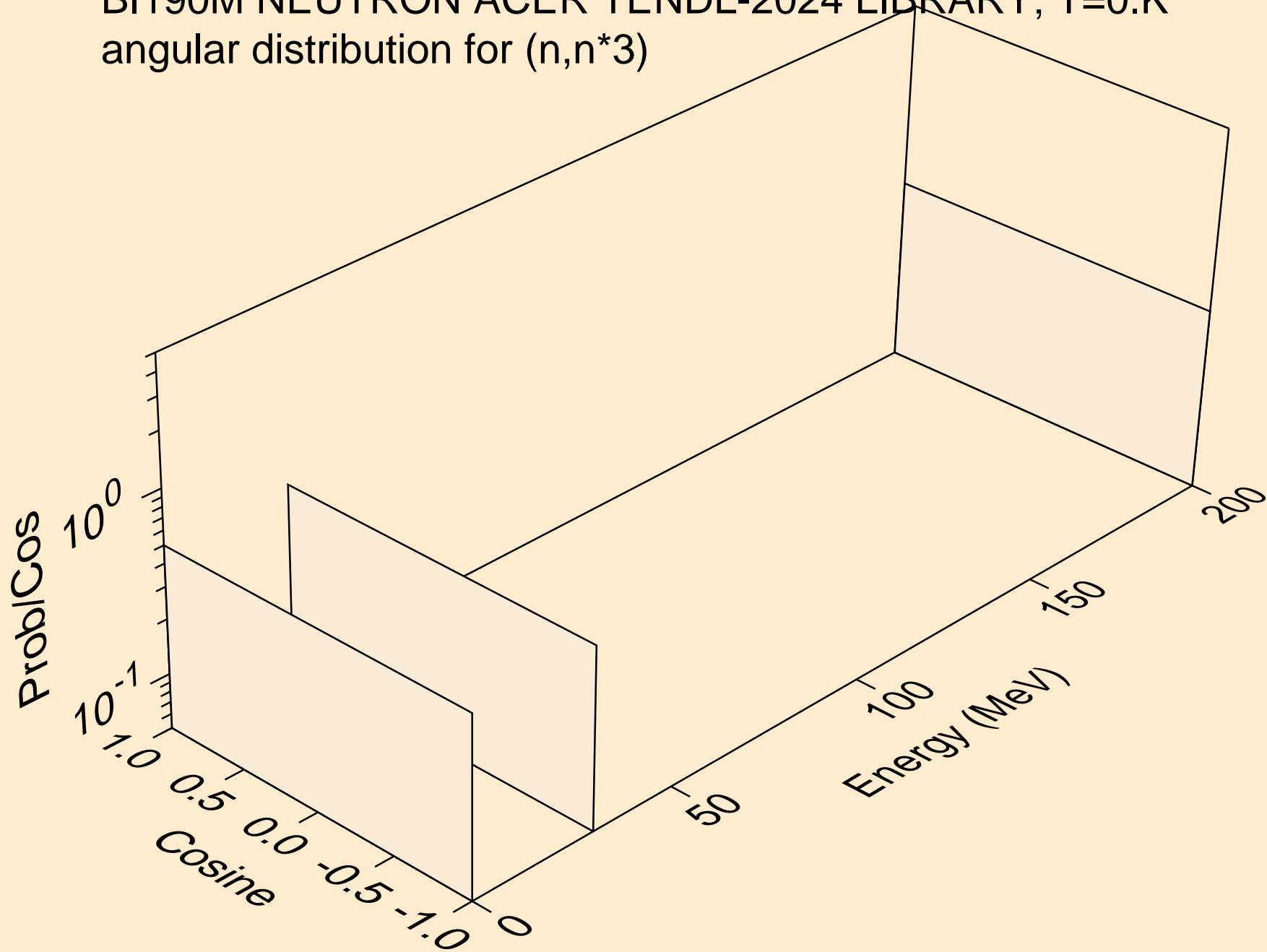
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angular distribution for (n,n\*1)



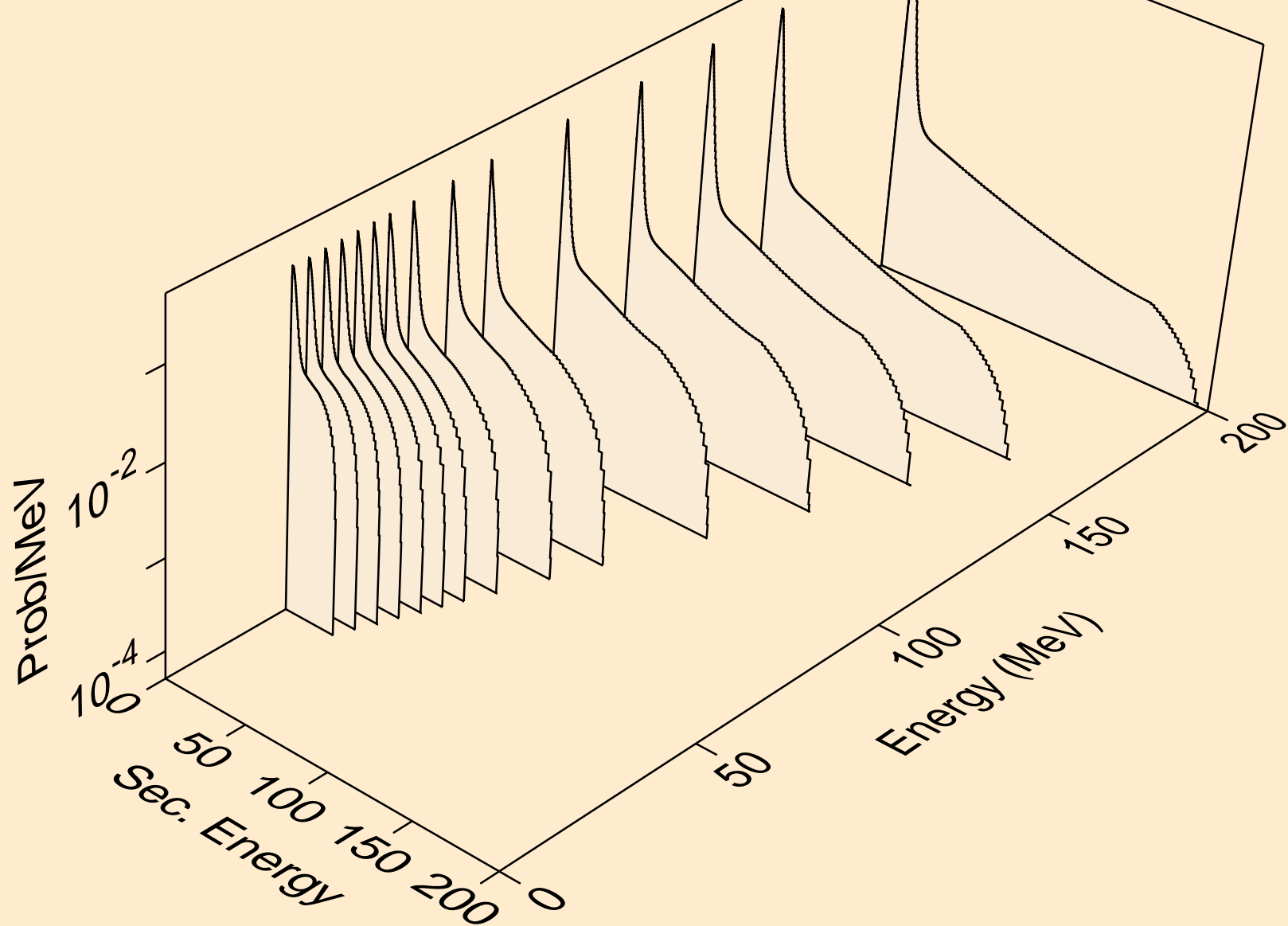
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angular distribution for (n,n\*2)



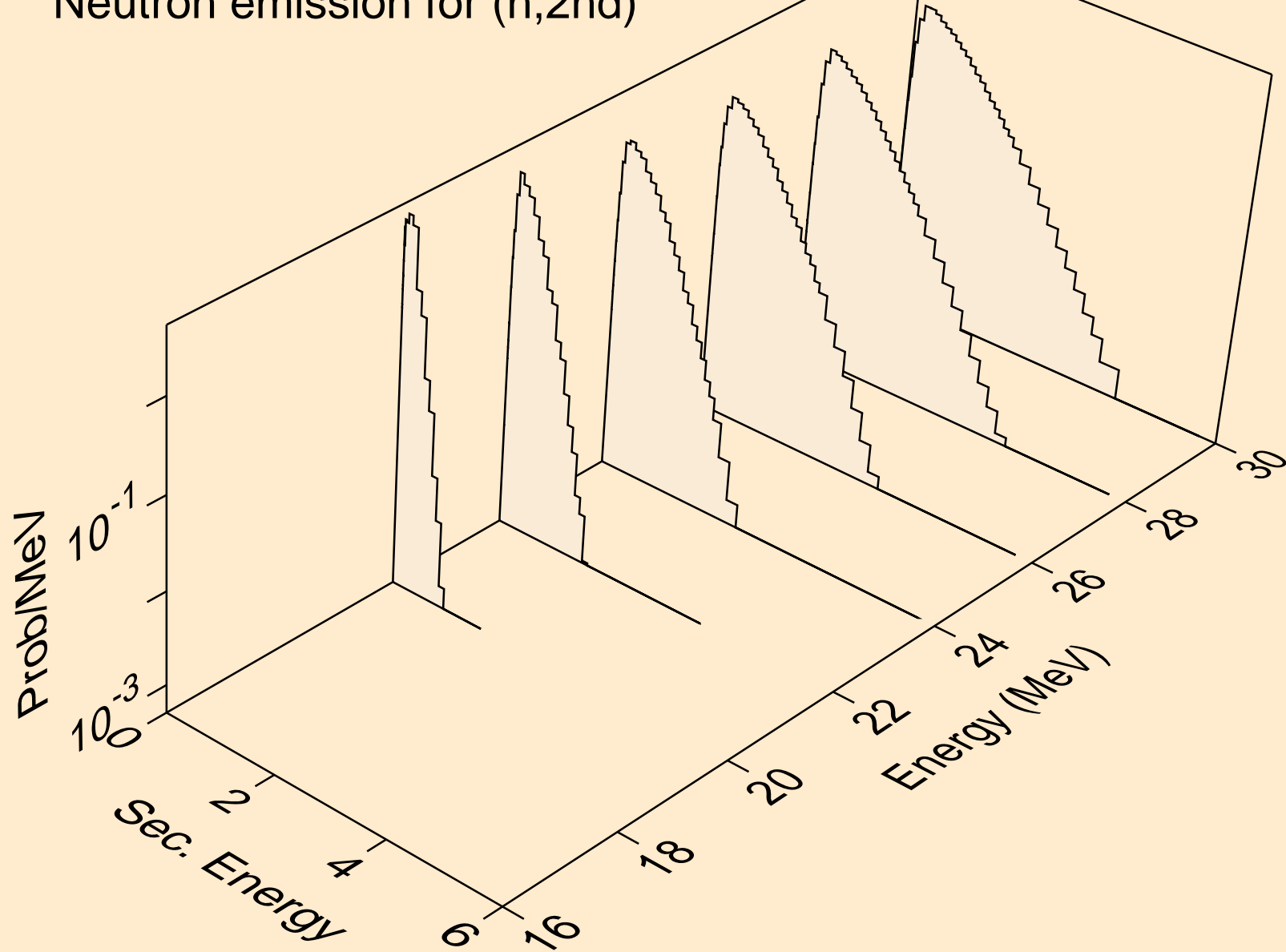
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angular distribution for (n,n\*3)



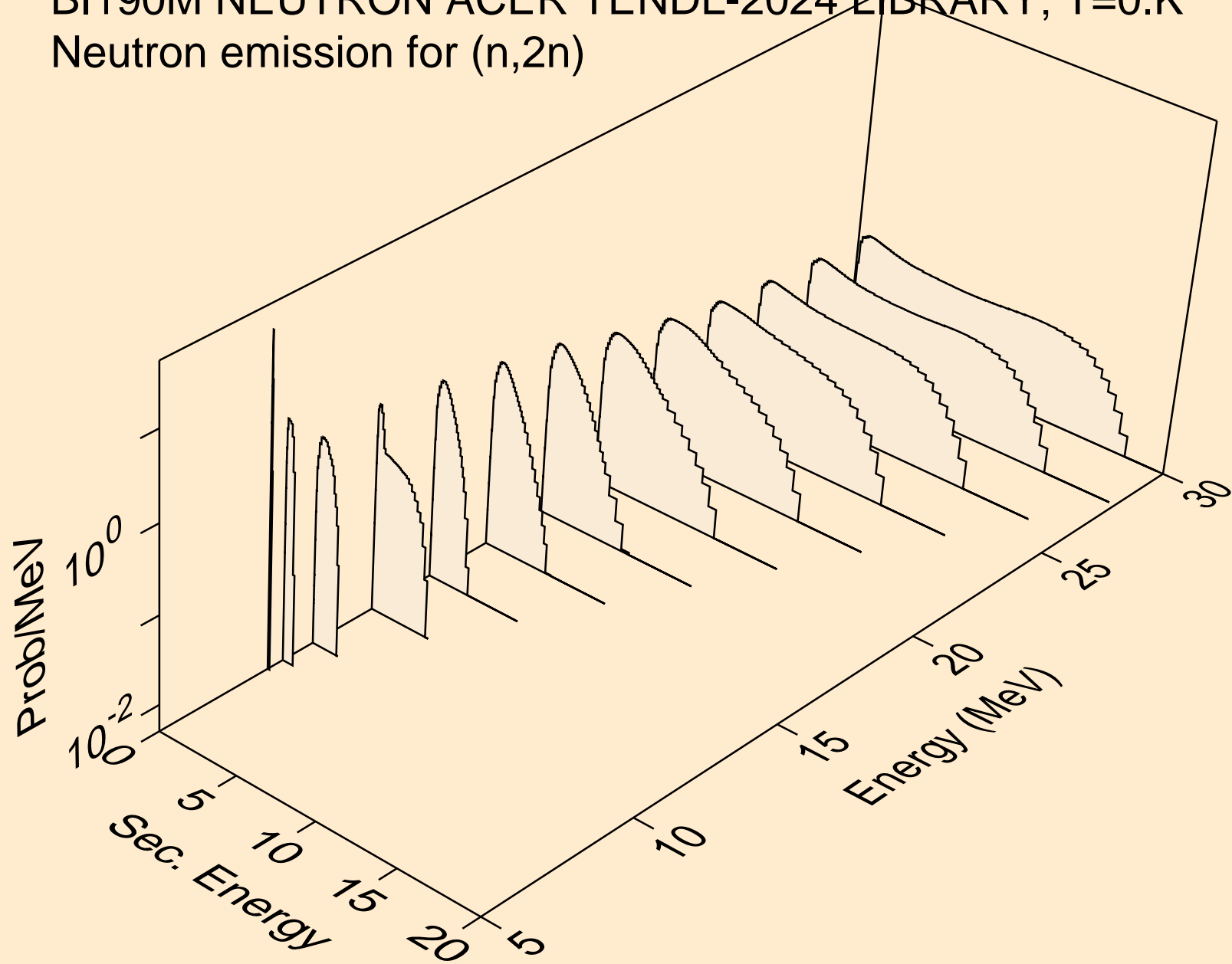
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Neutron emission for (n,x)



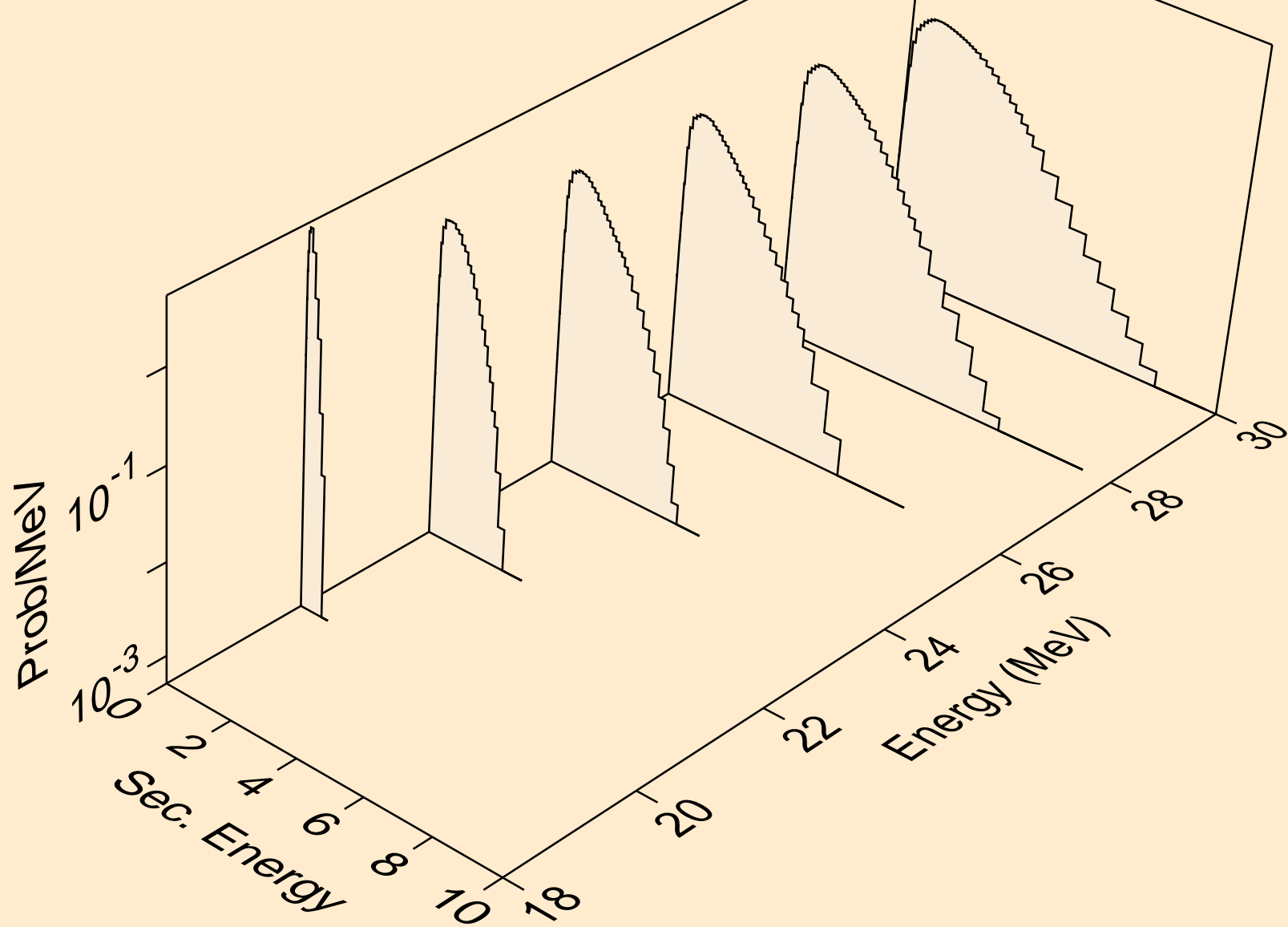
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Neutron emission for (n,2nd)



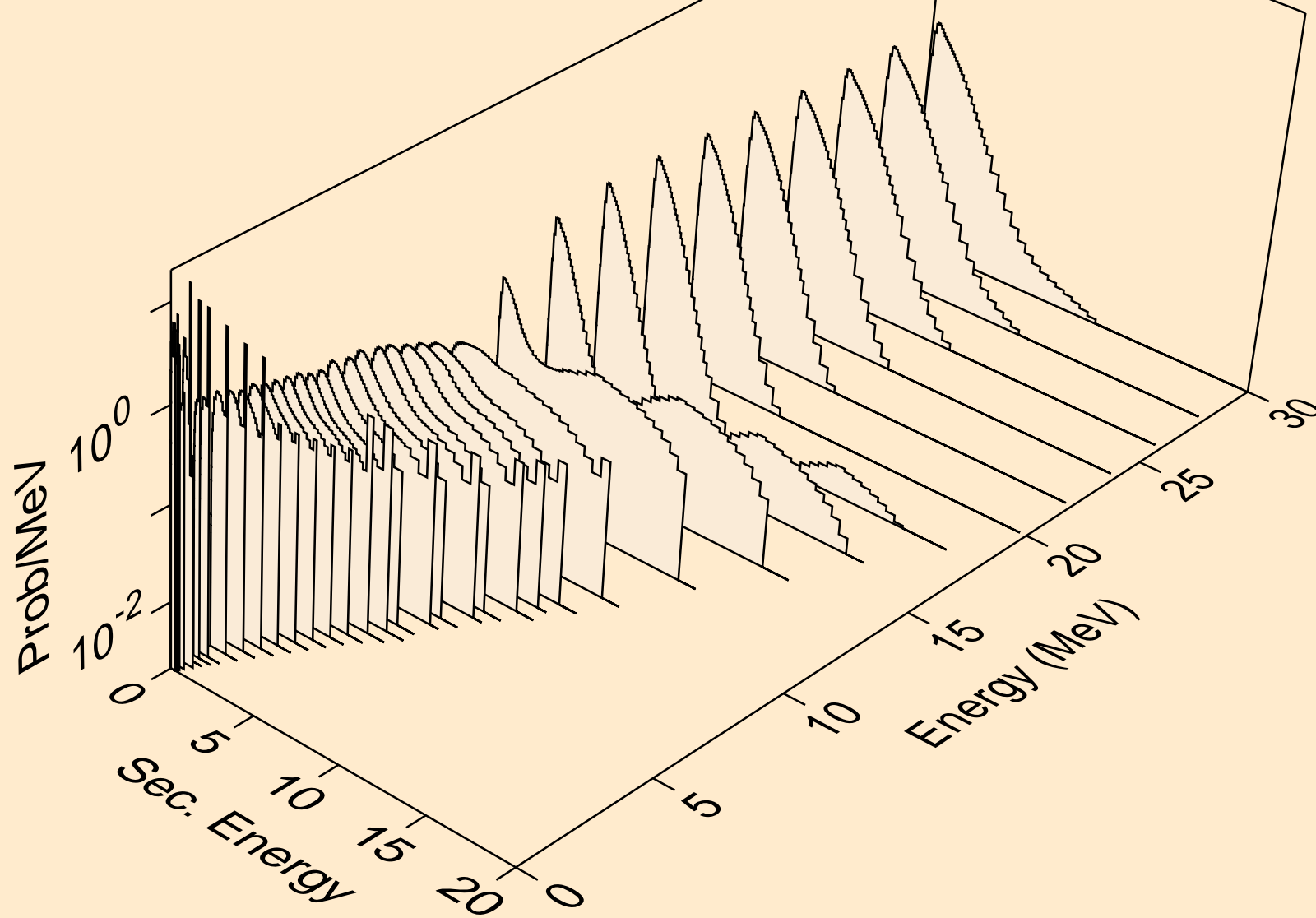
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)

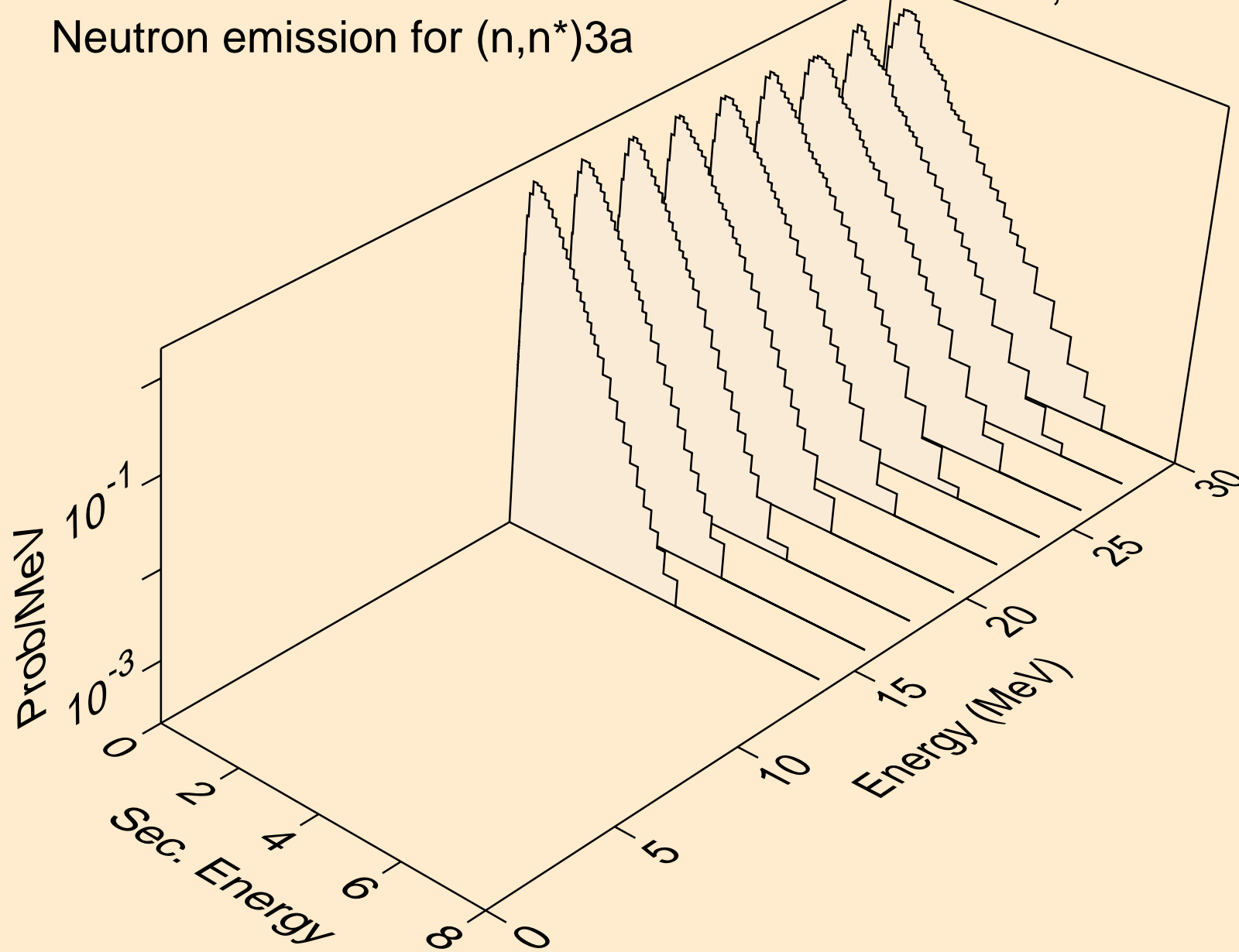


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Neutron emission for (n,n\*)a

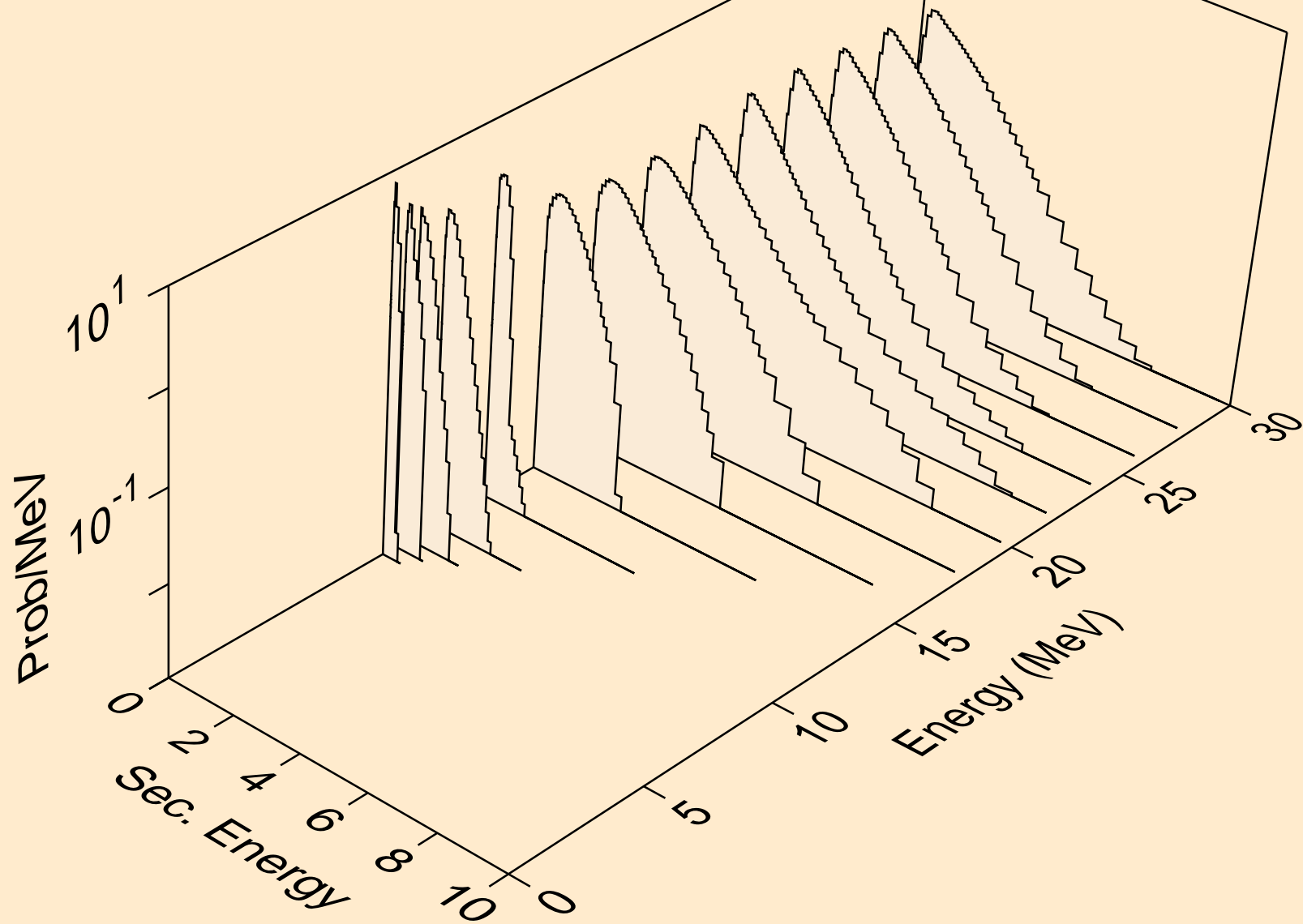




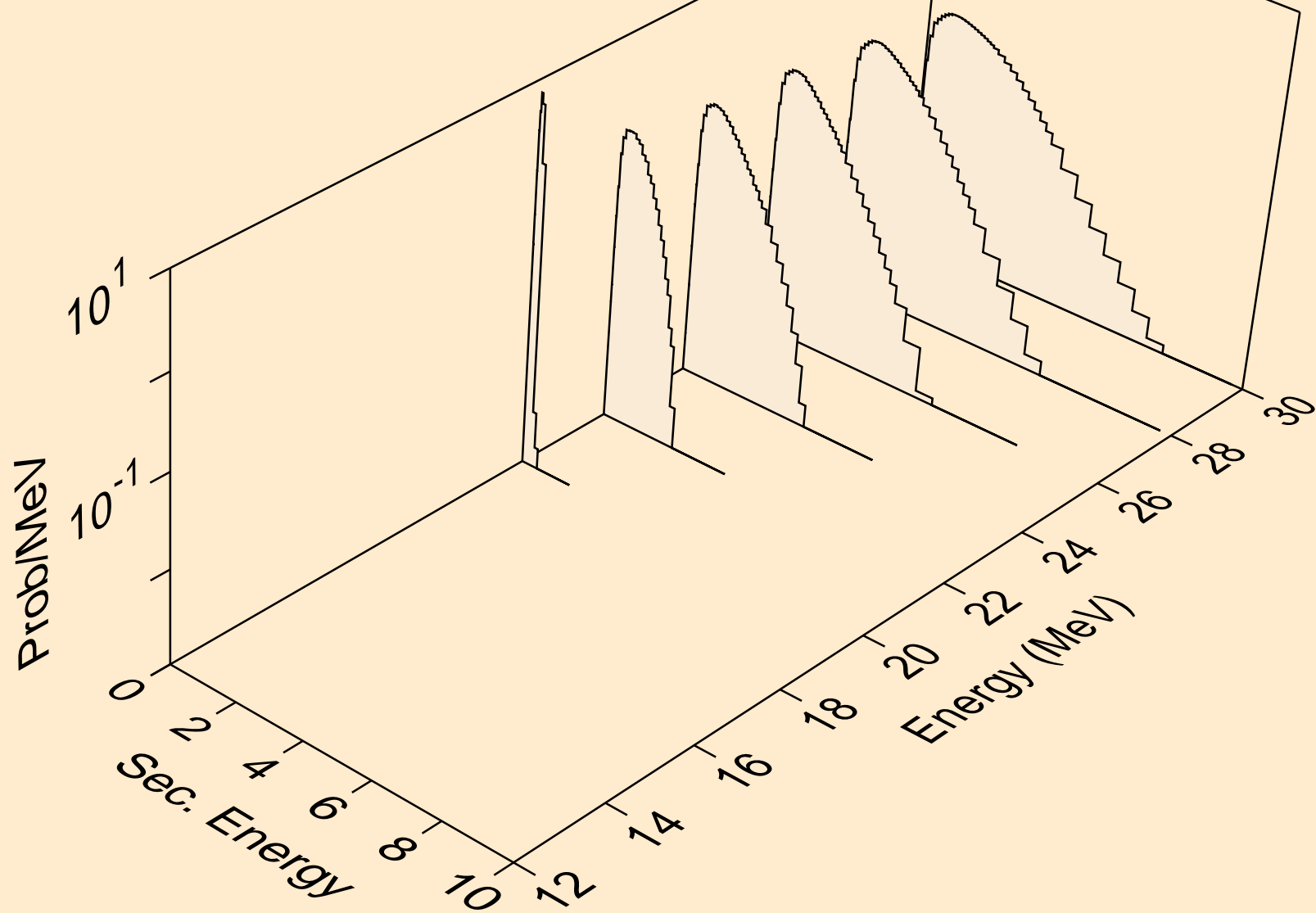
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Neutron emission for (n,n\*)3a



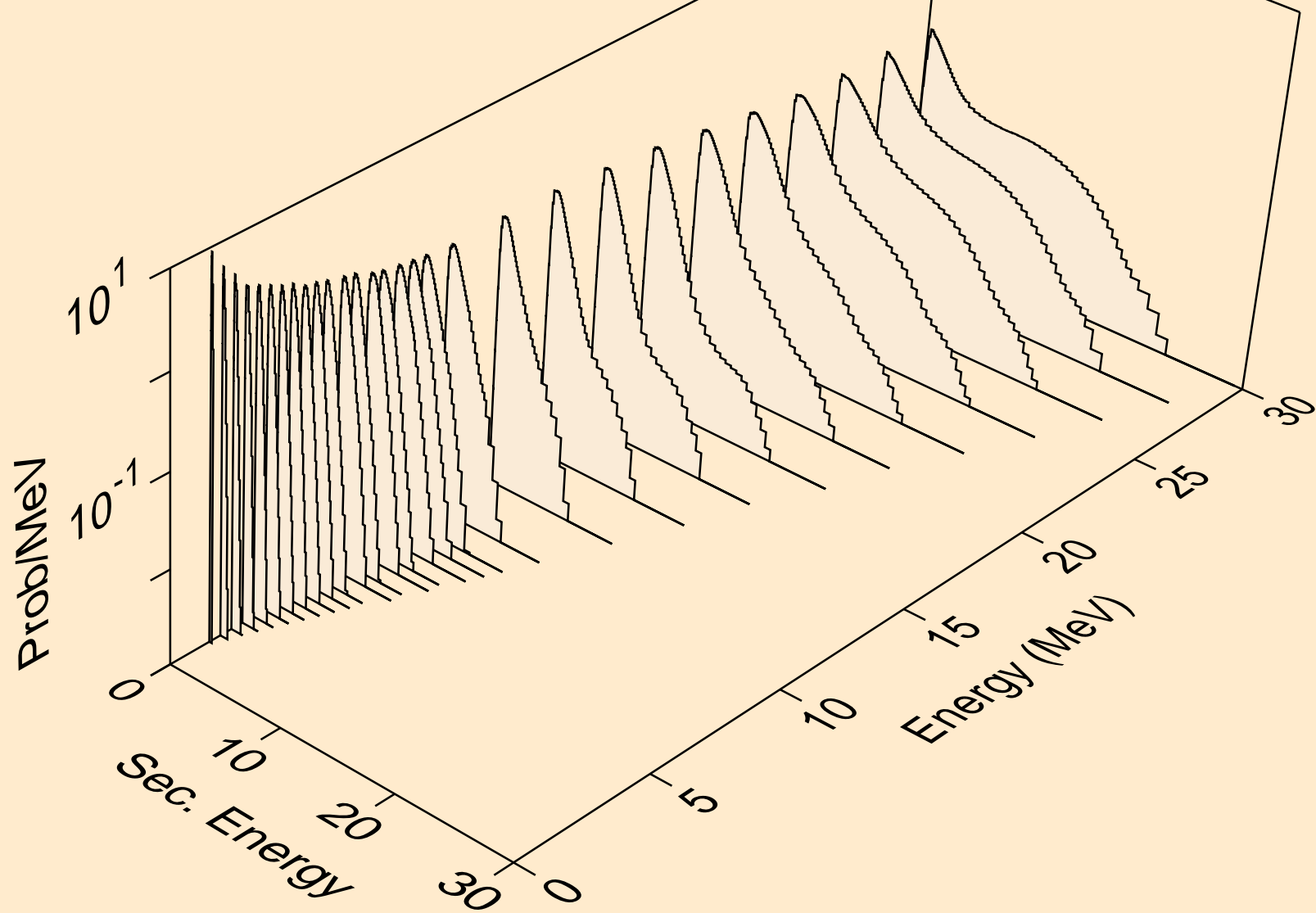
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Neutron emission for (n,2n)a



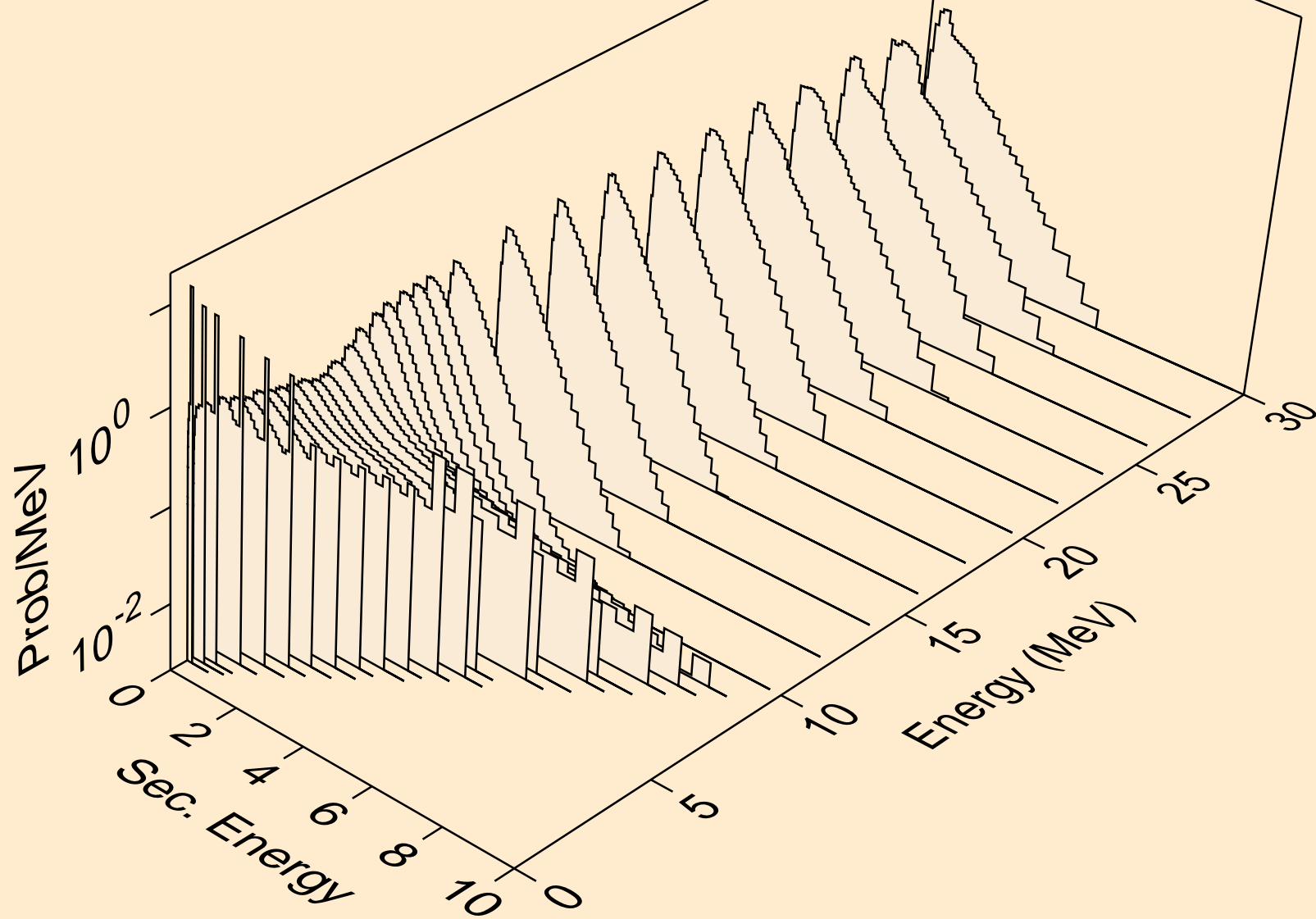
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Neutron emission for (n,3n)a



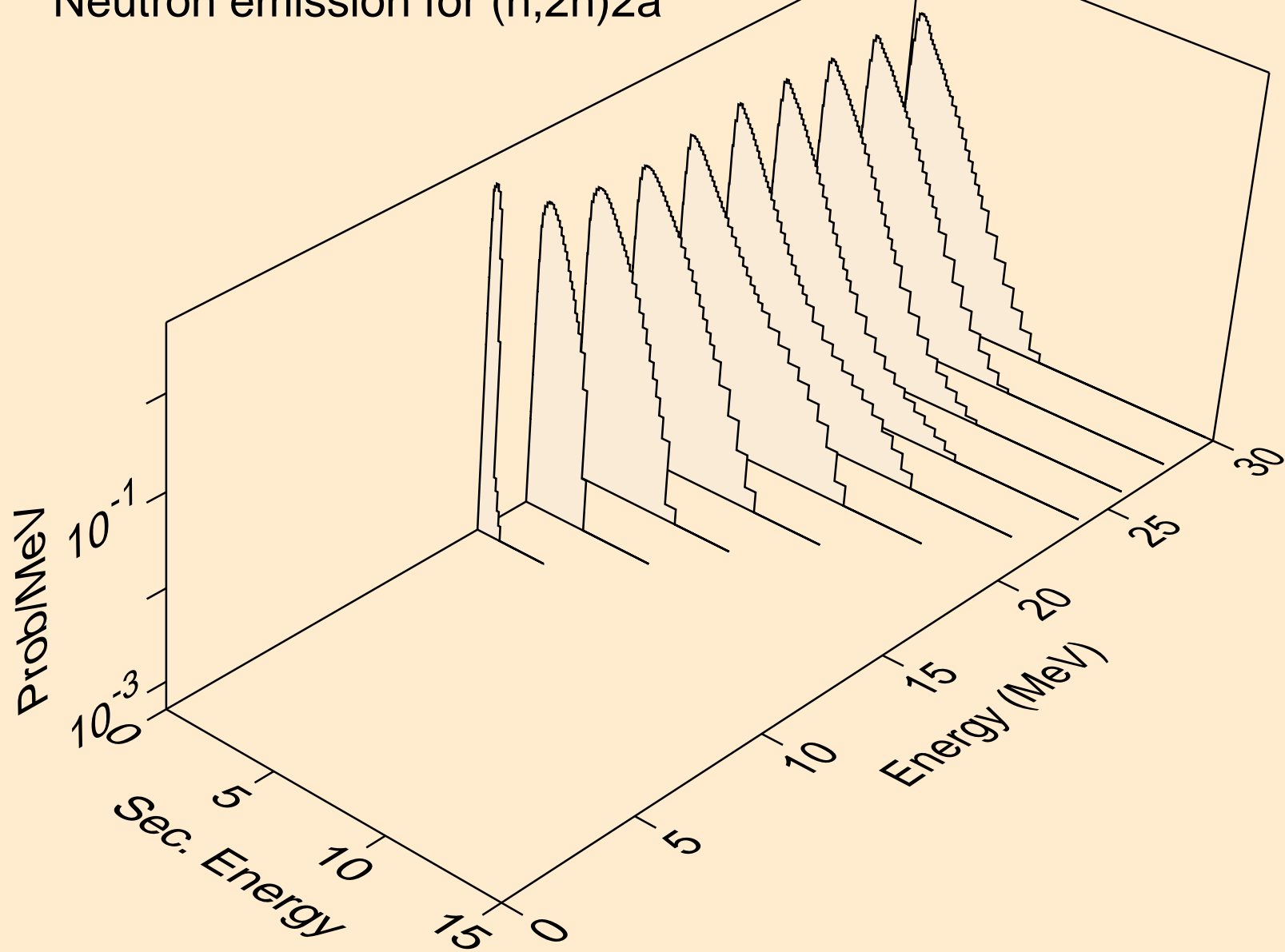
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Neutron emission for (n,n\*)p



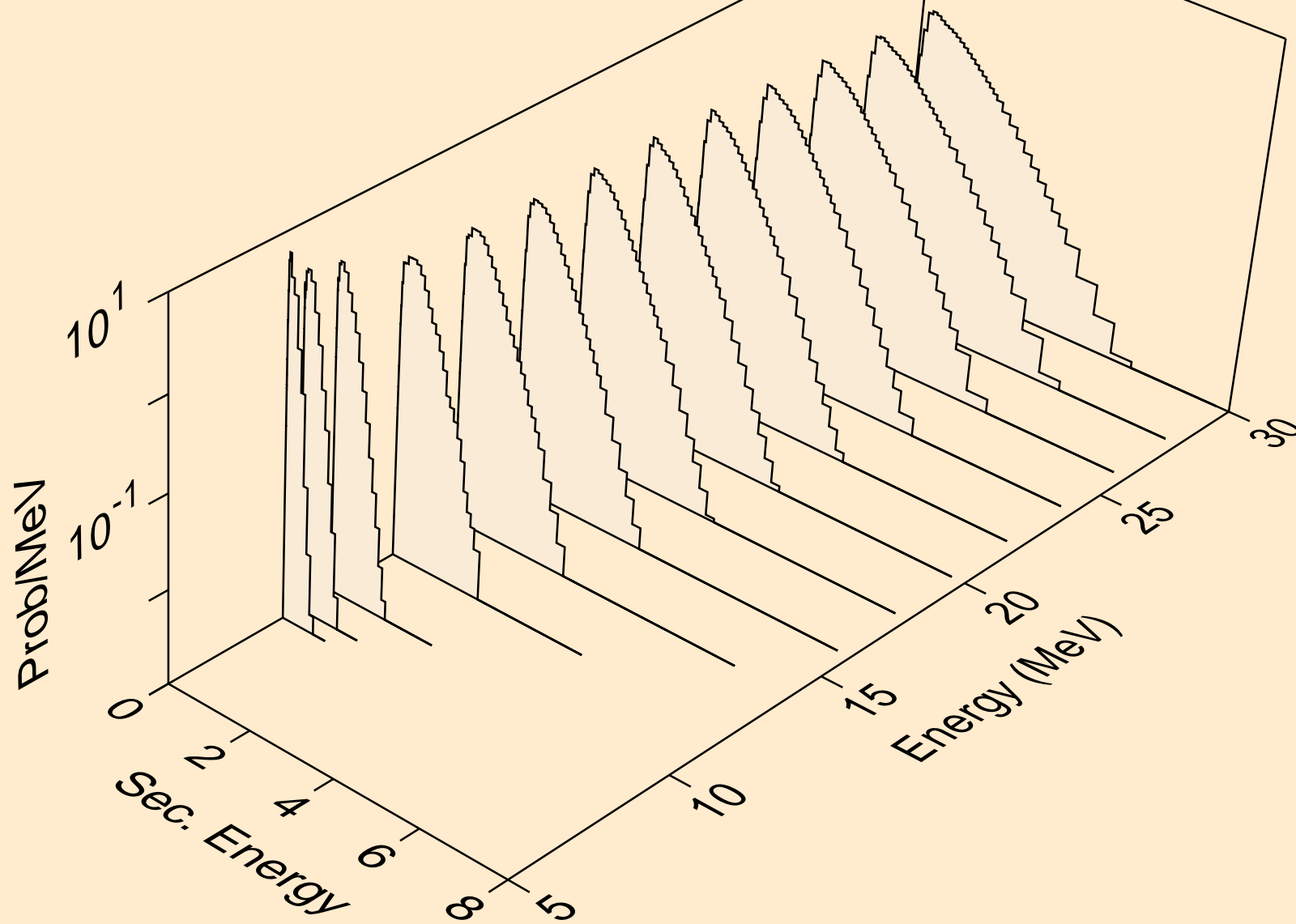
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Neutron emission for (n,n\*)2a



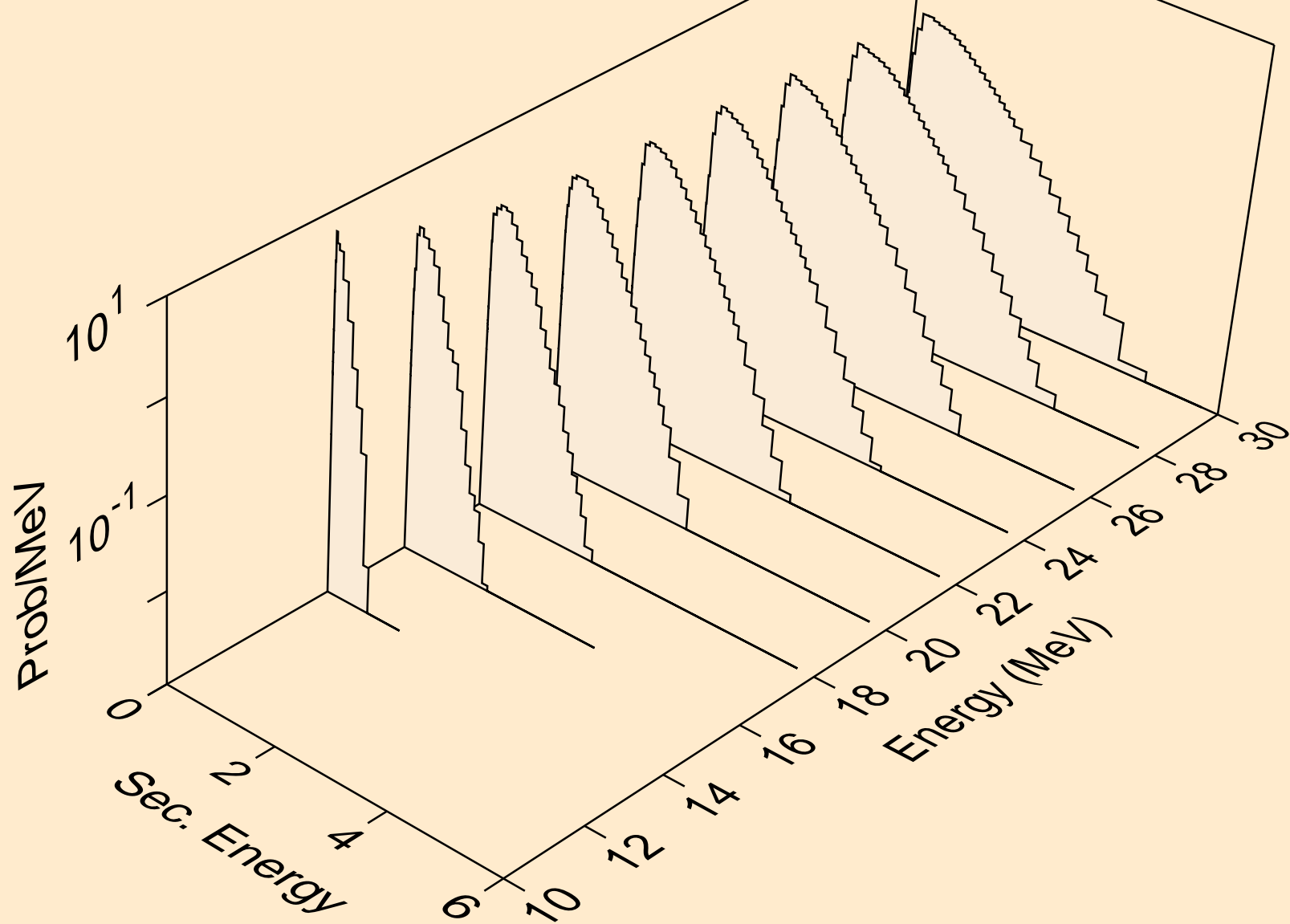
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

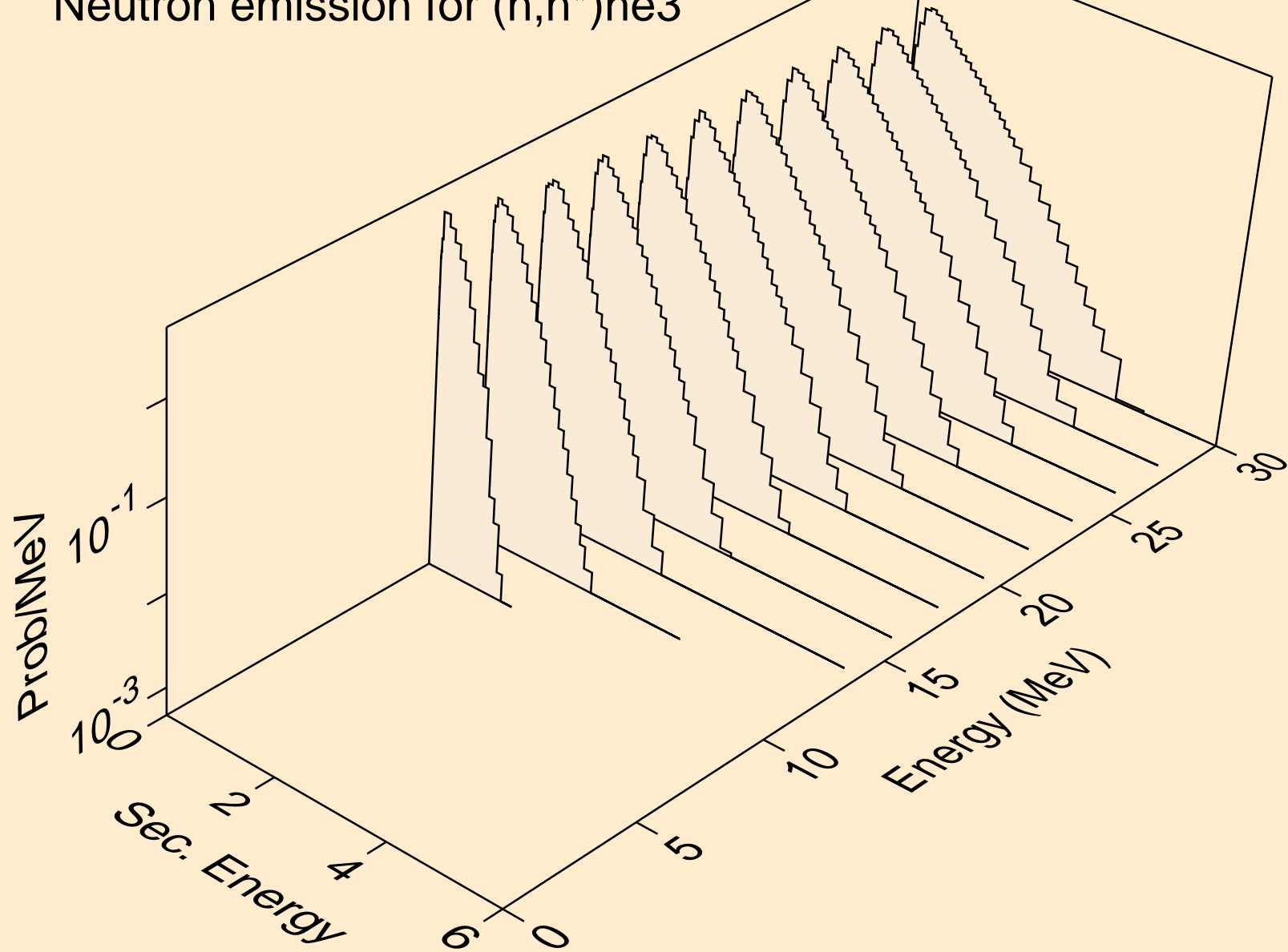


BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t

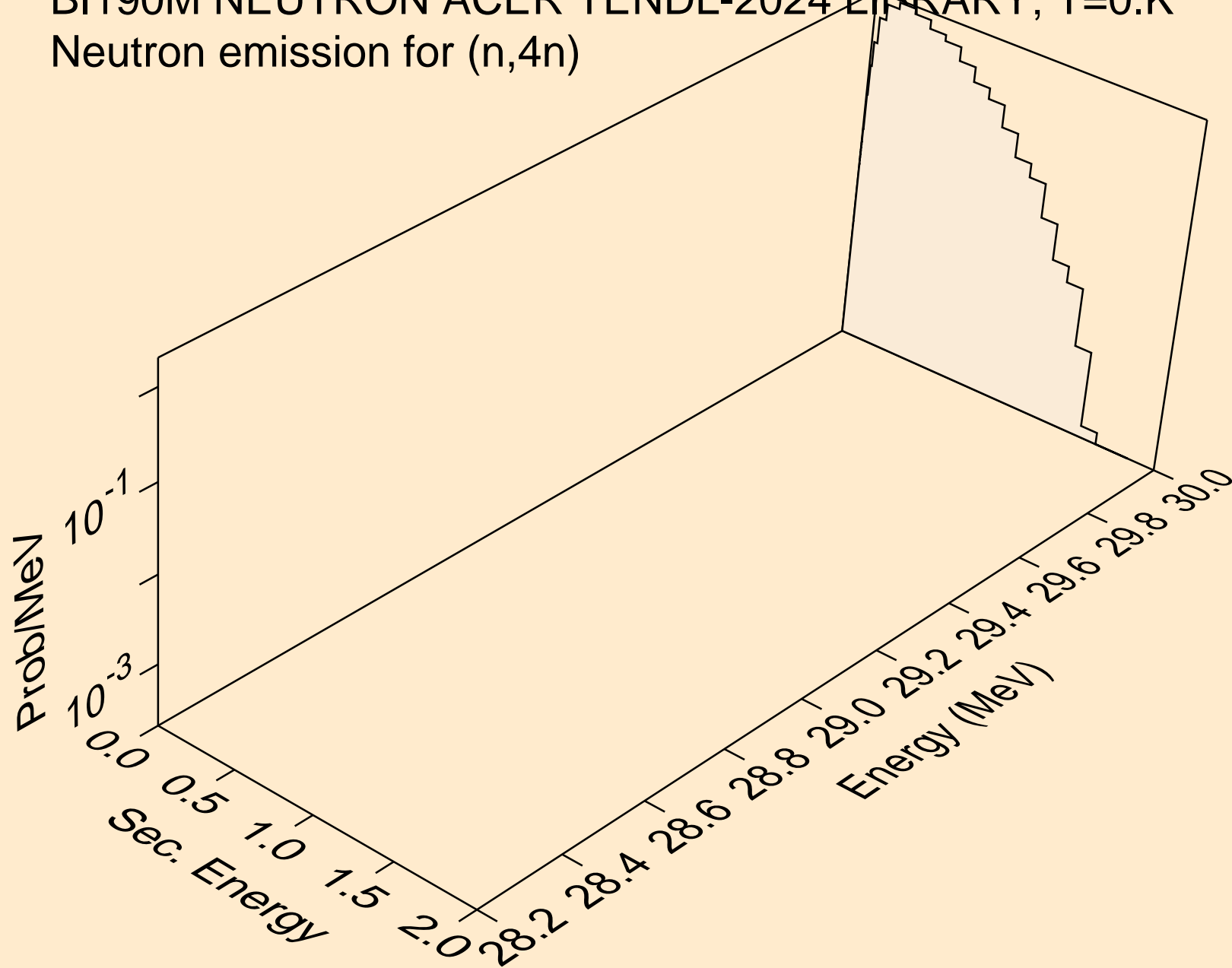




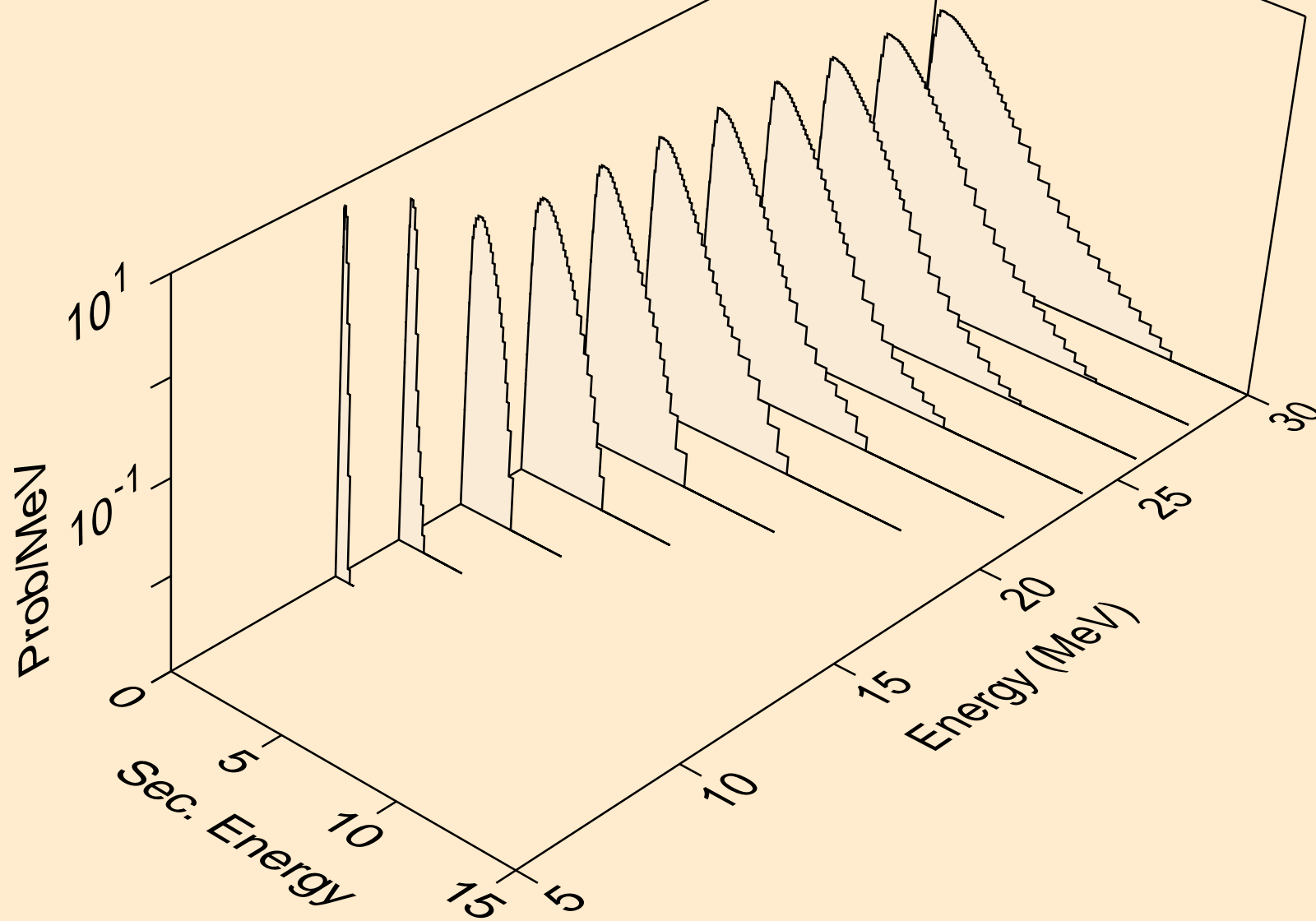
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



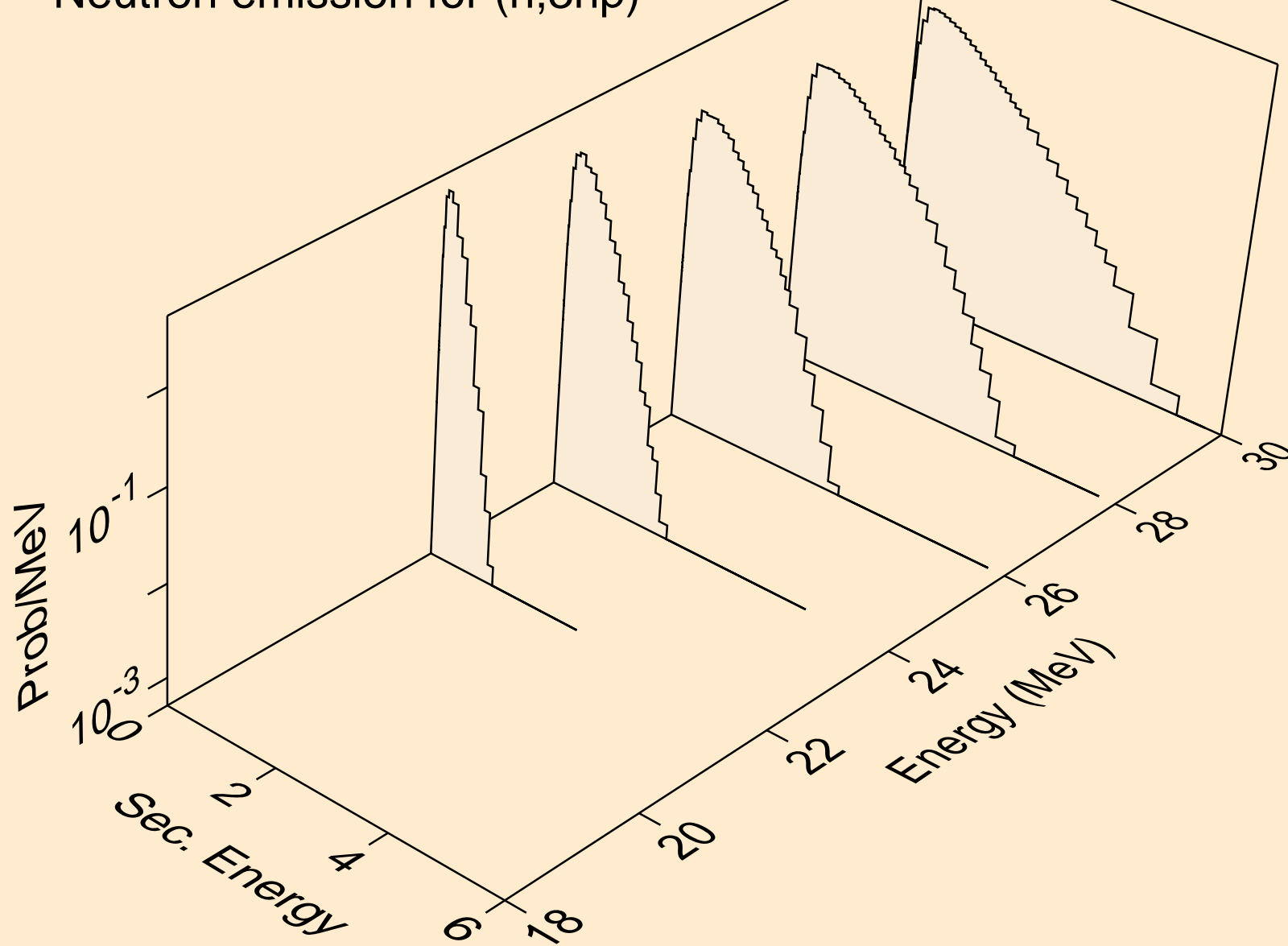
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



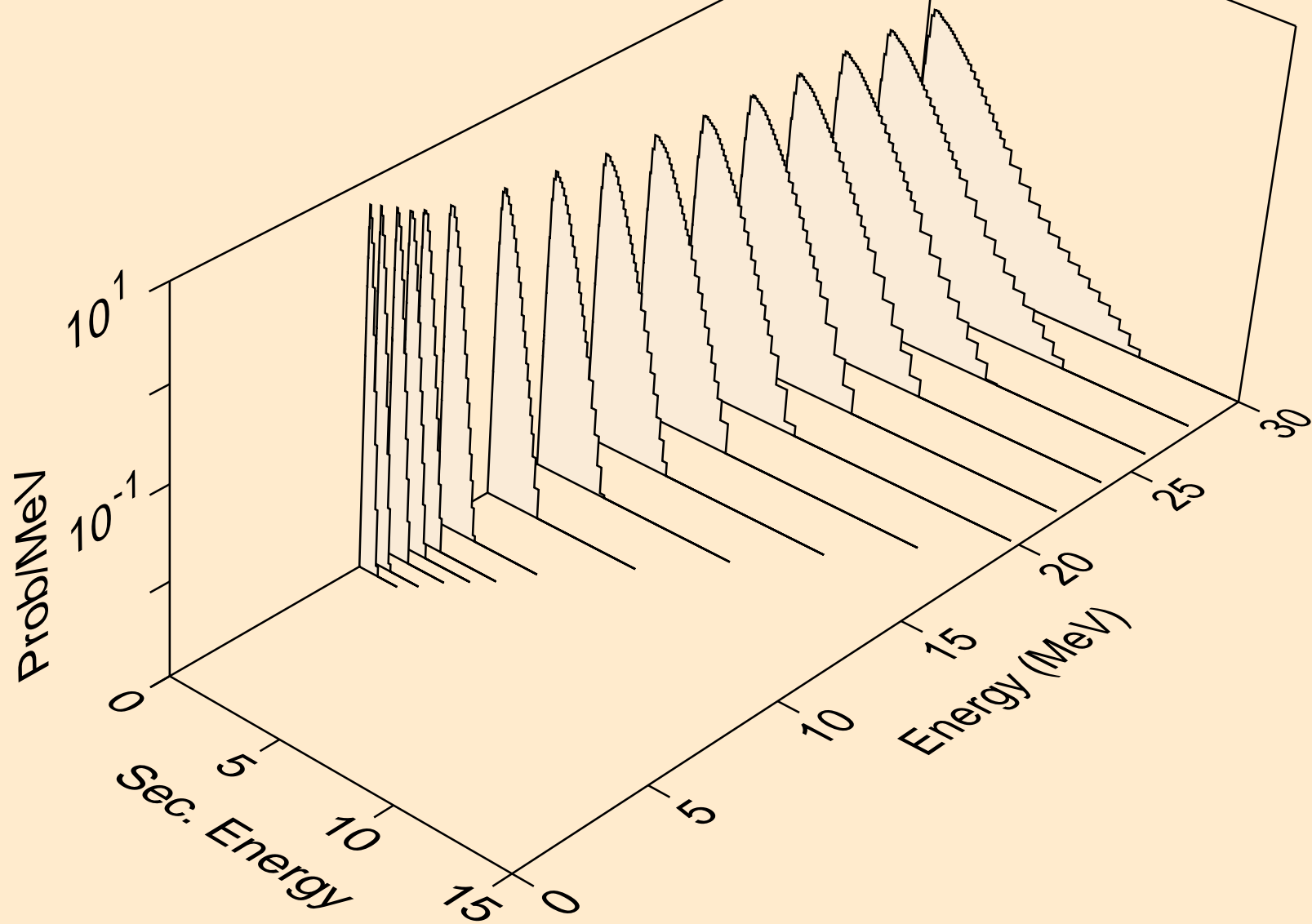
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Neutron emission for (n,2np)



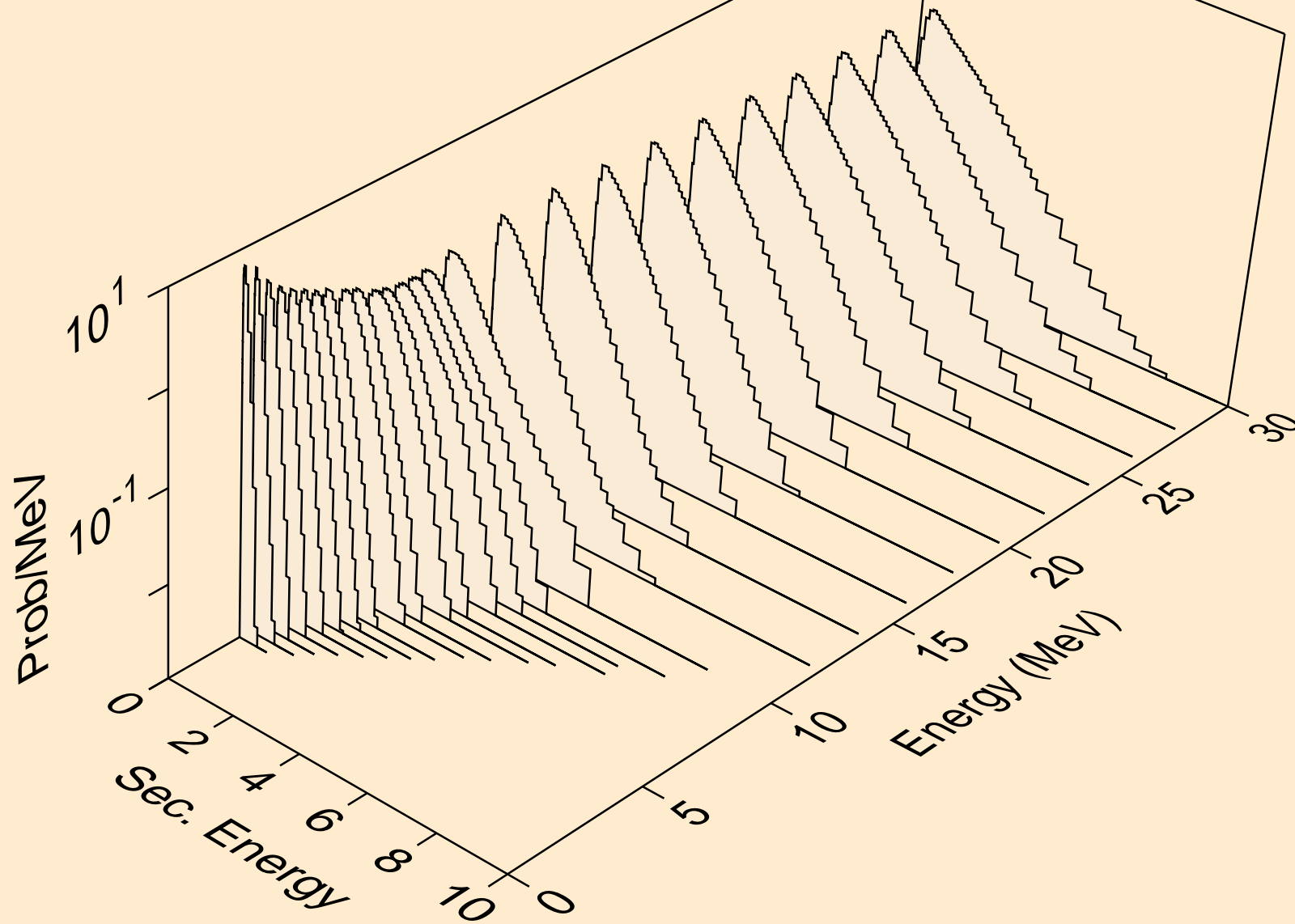
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Neutron emission for (n,3np)



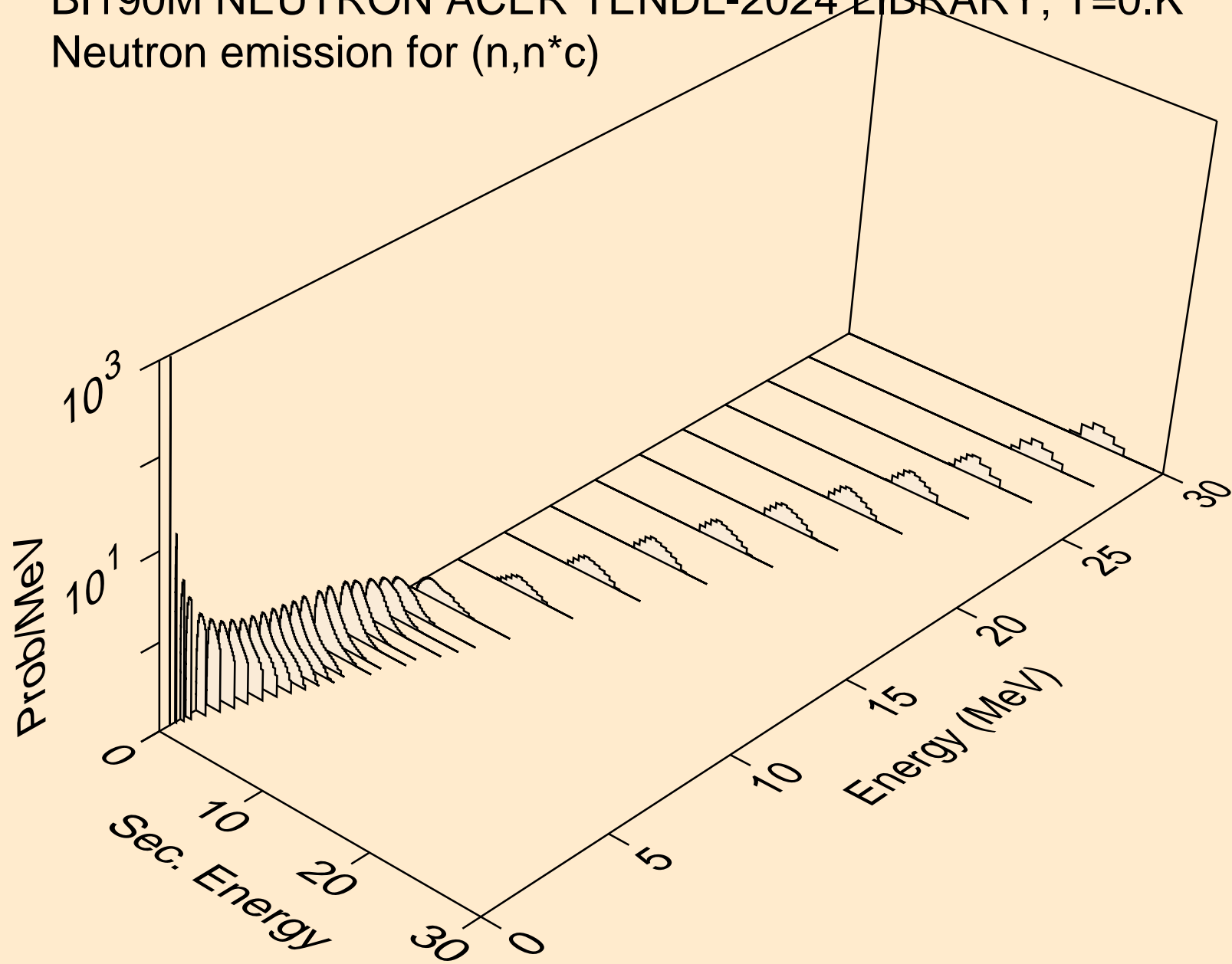
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Neutron emission for (n,n2p)



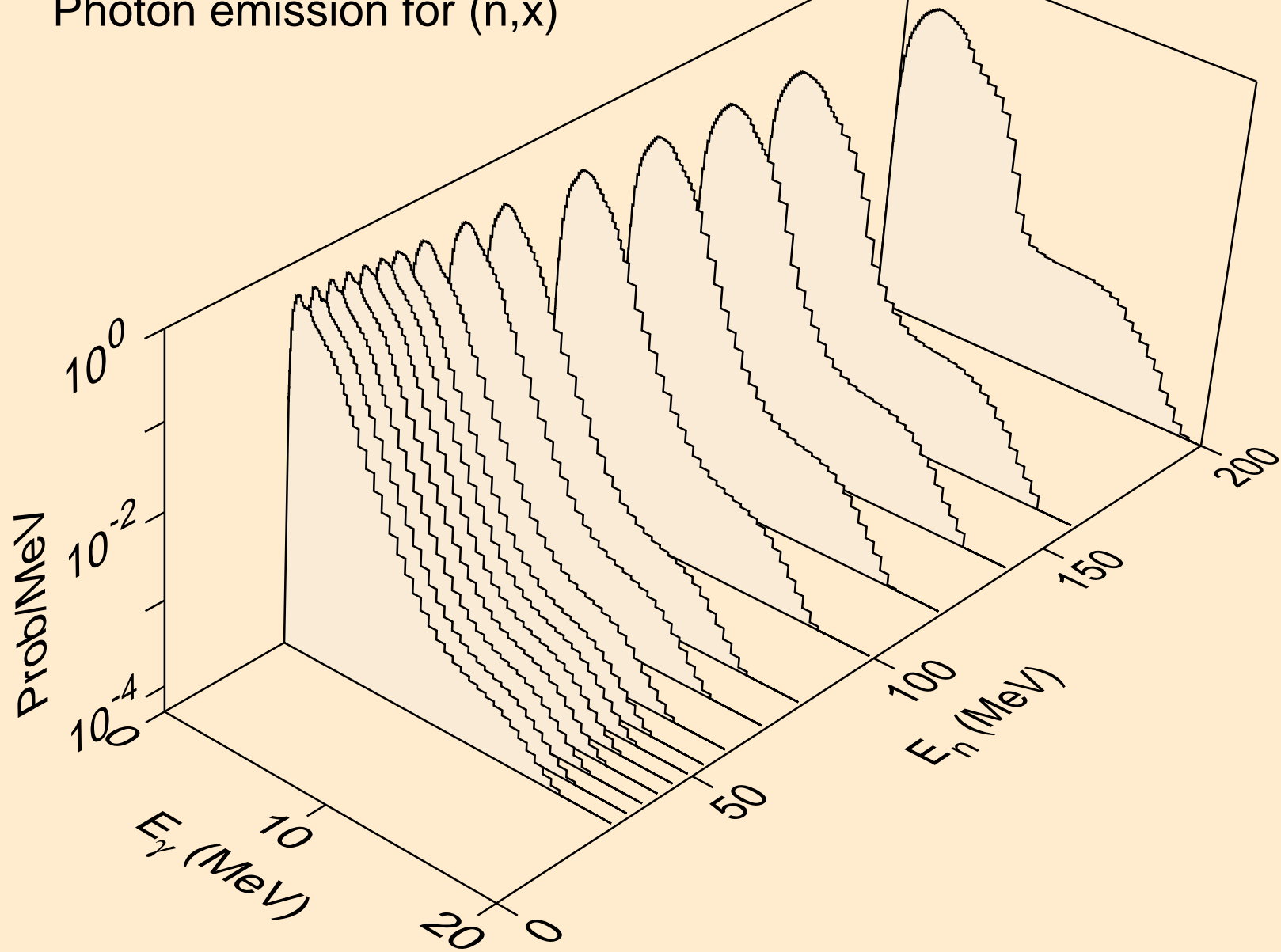
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,npa)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)

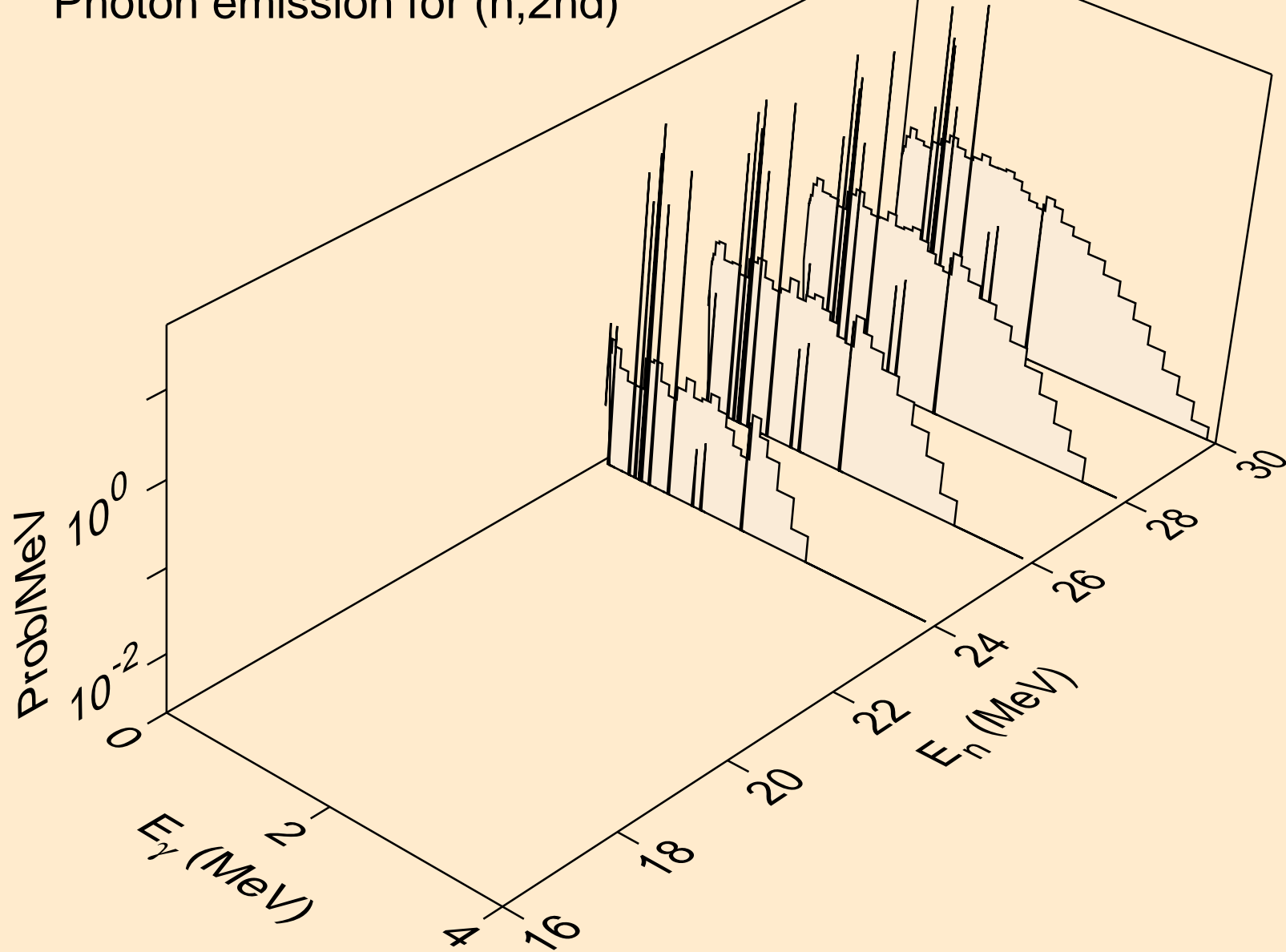


BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)

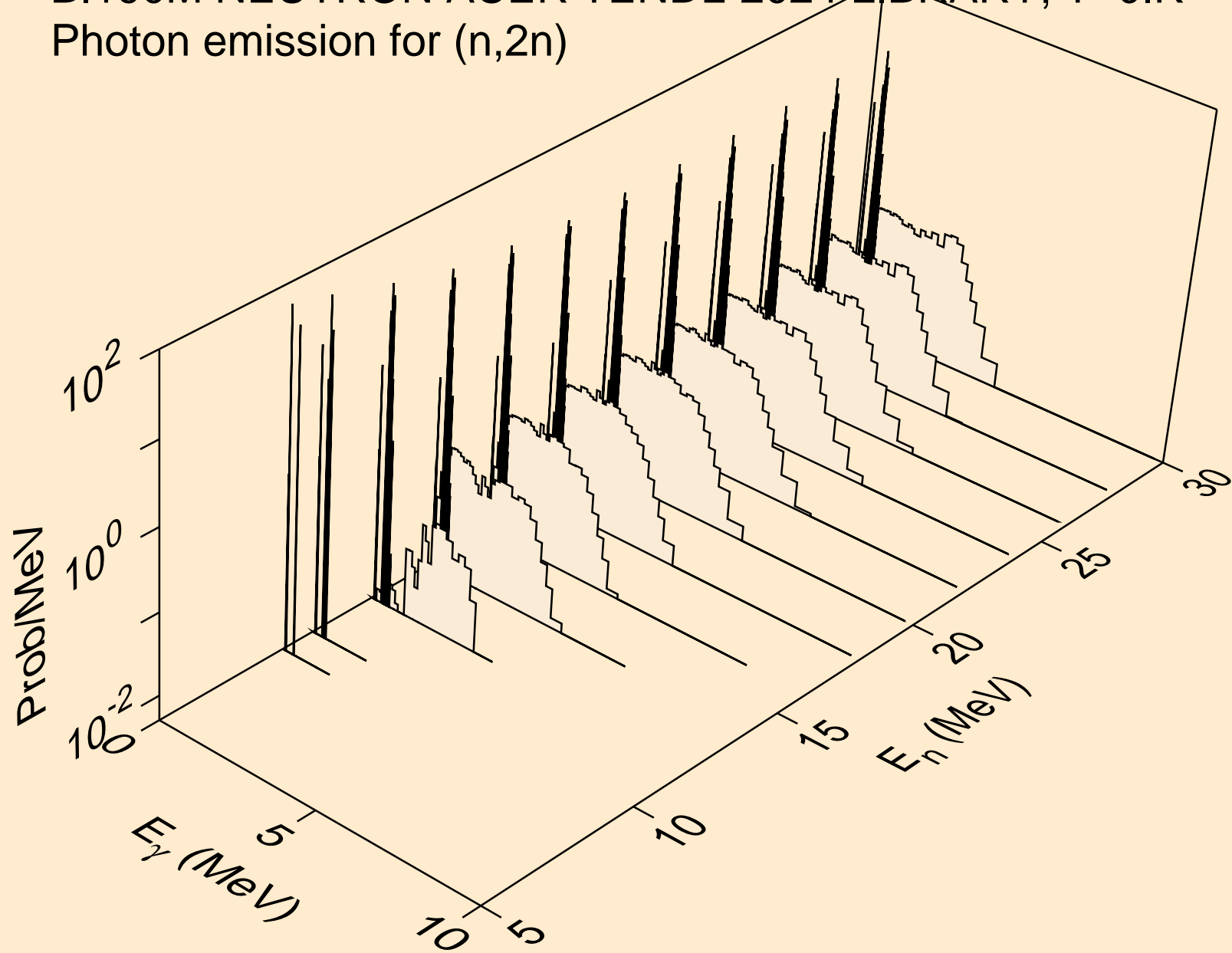




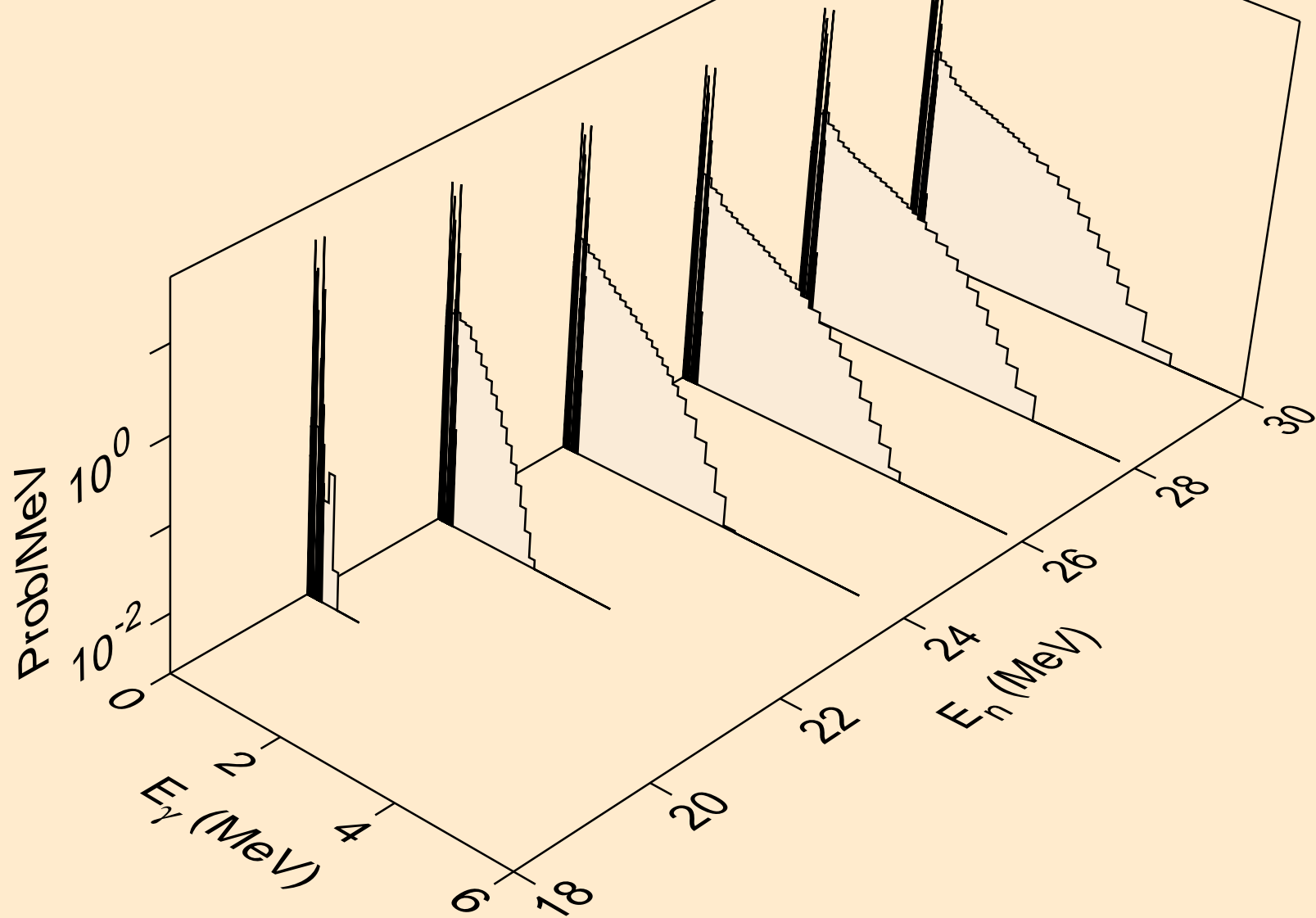
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Photon emission for (n,2nd)



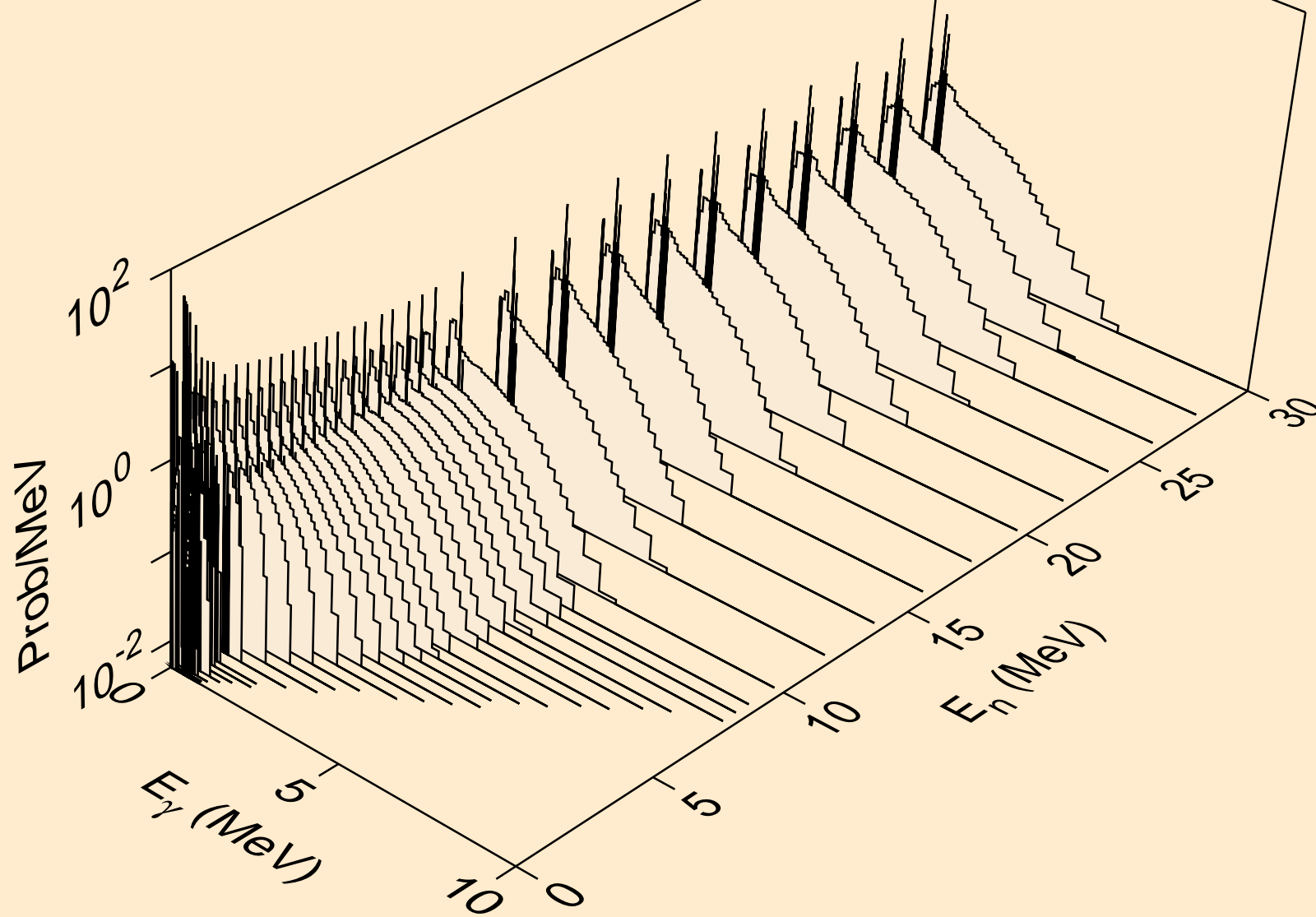
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Photon emission for (n,2n)



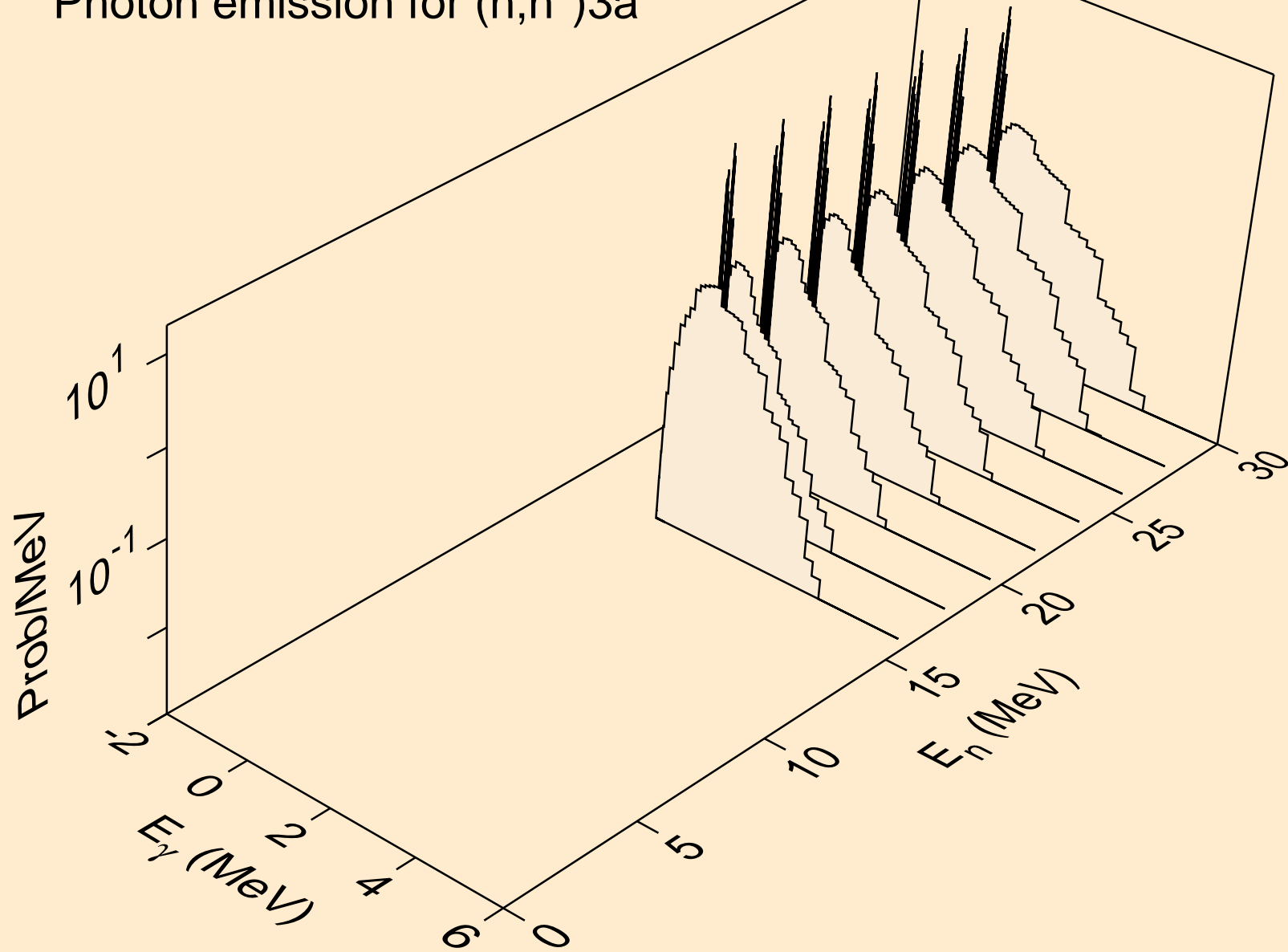
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Photon emission for (n,3n)



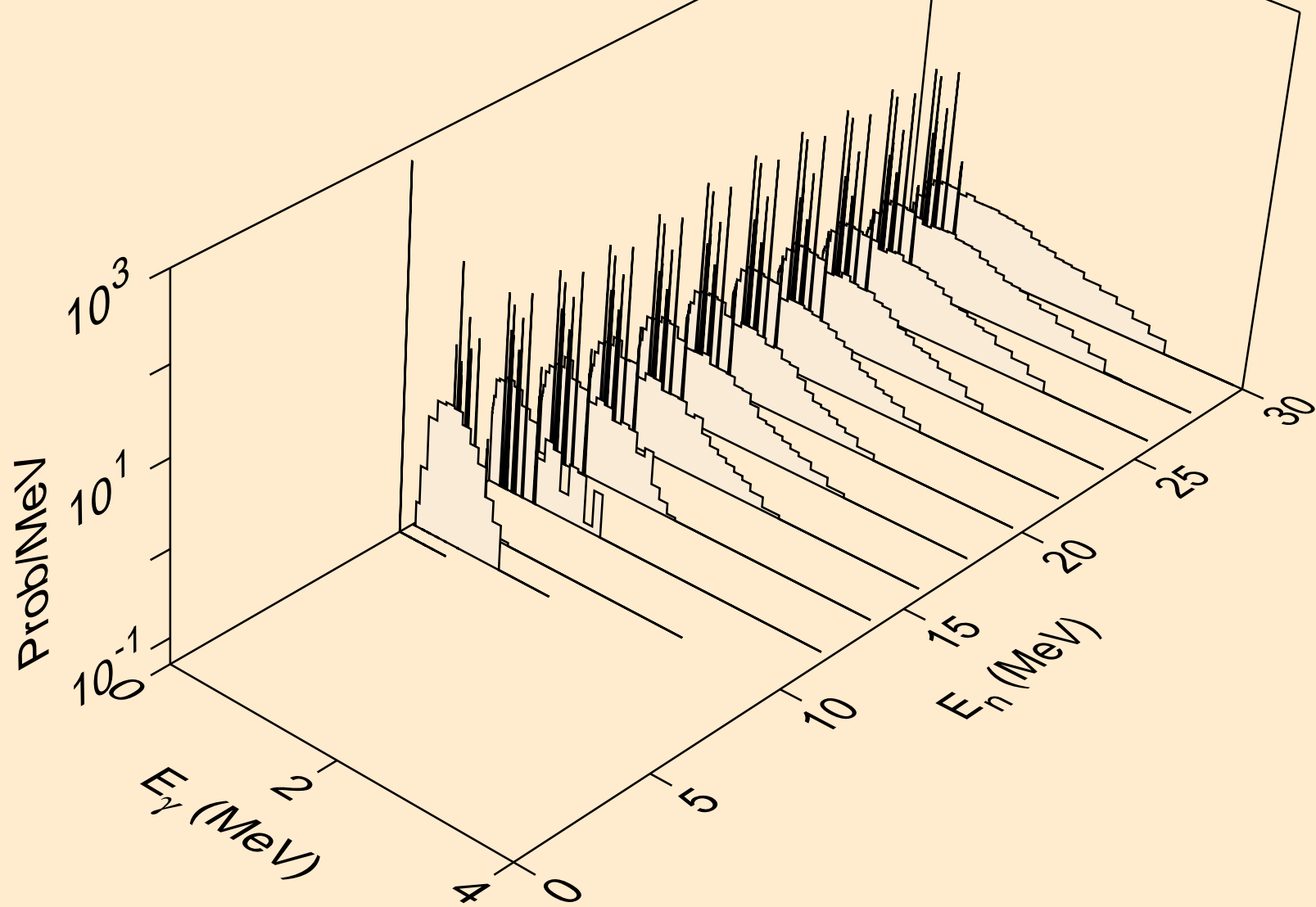
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



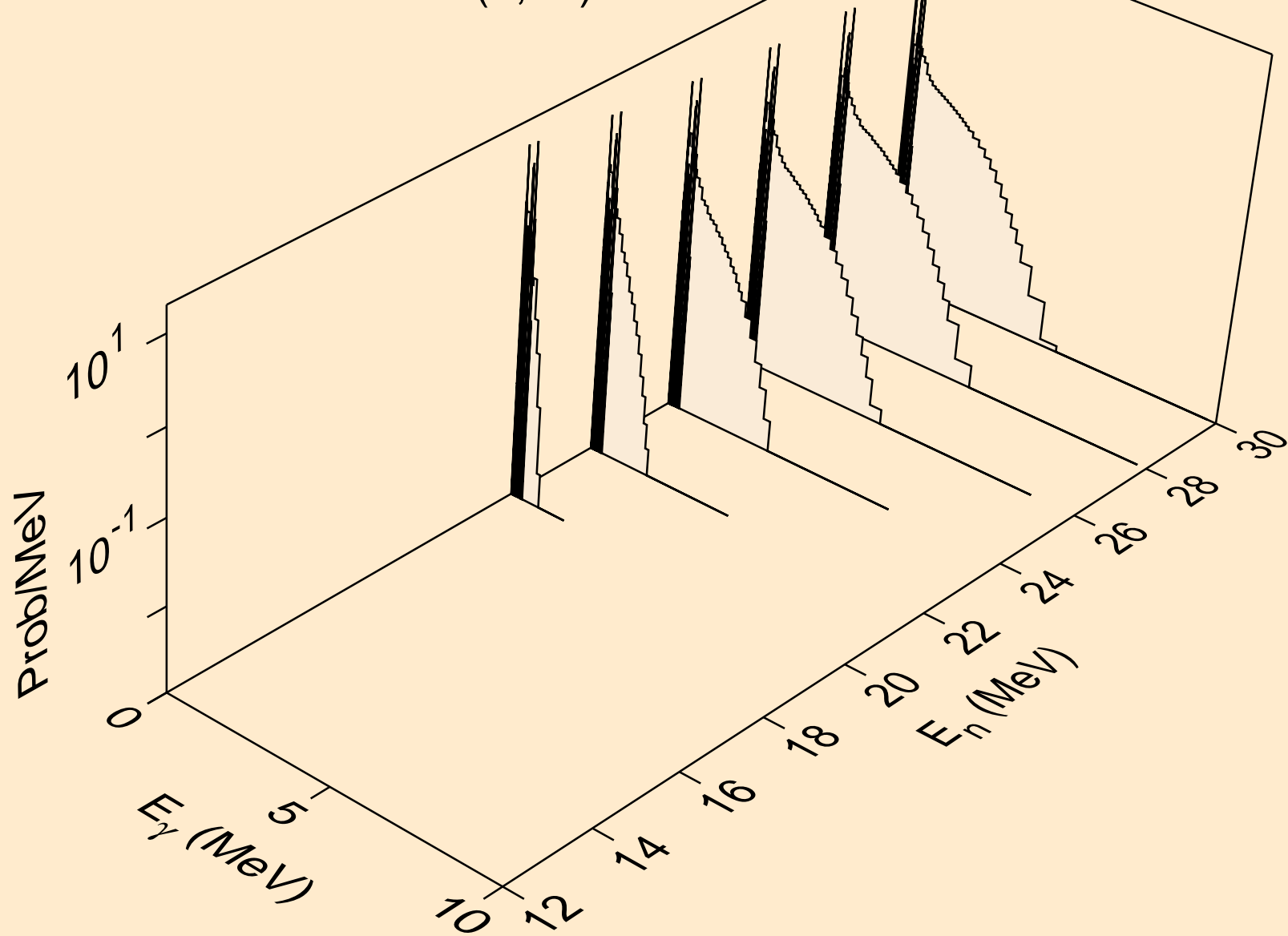
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Photon emission for (n,n\*)3a



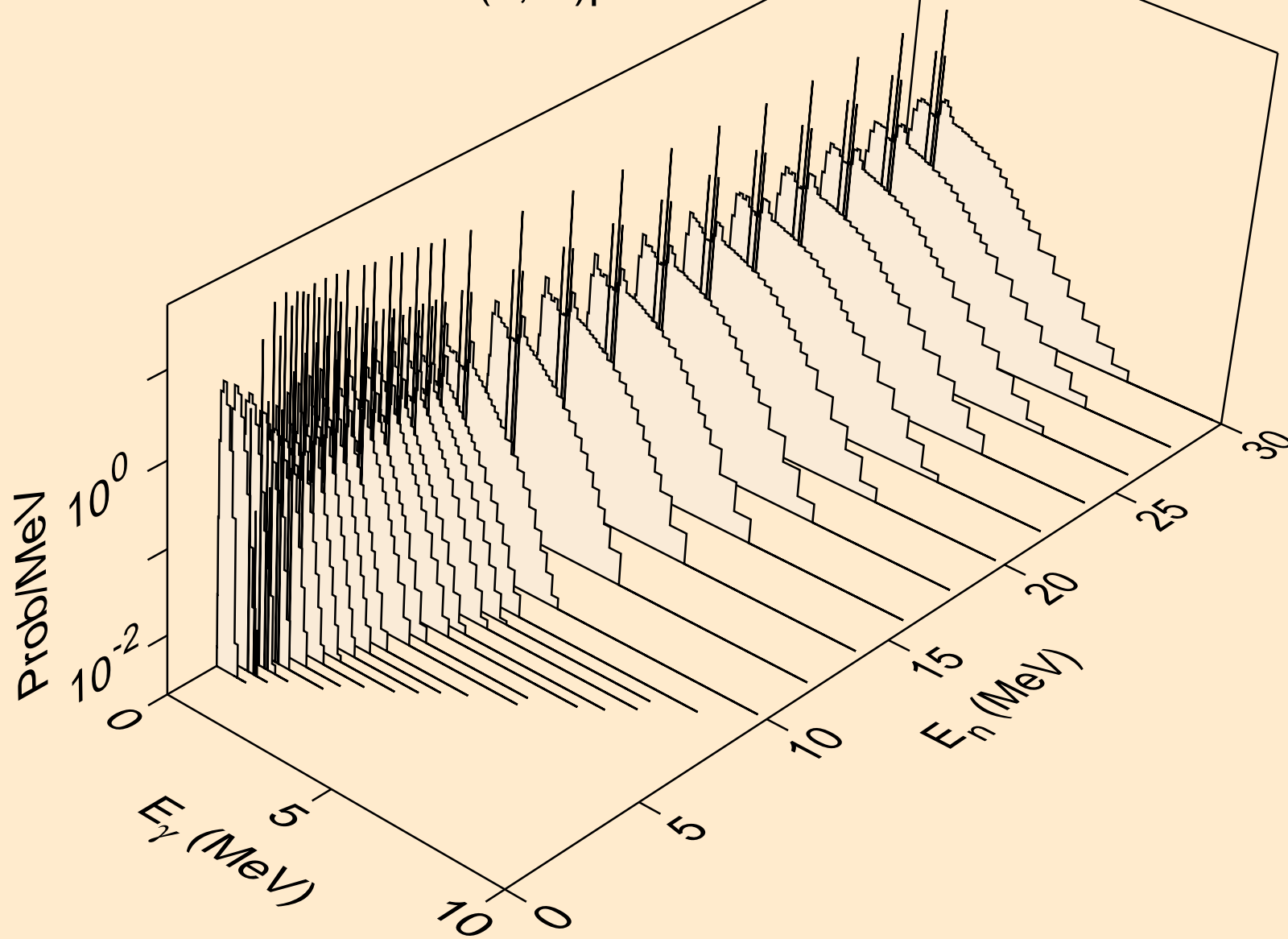
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)a

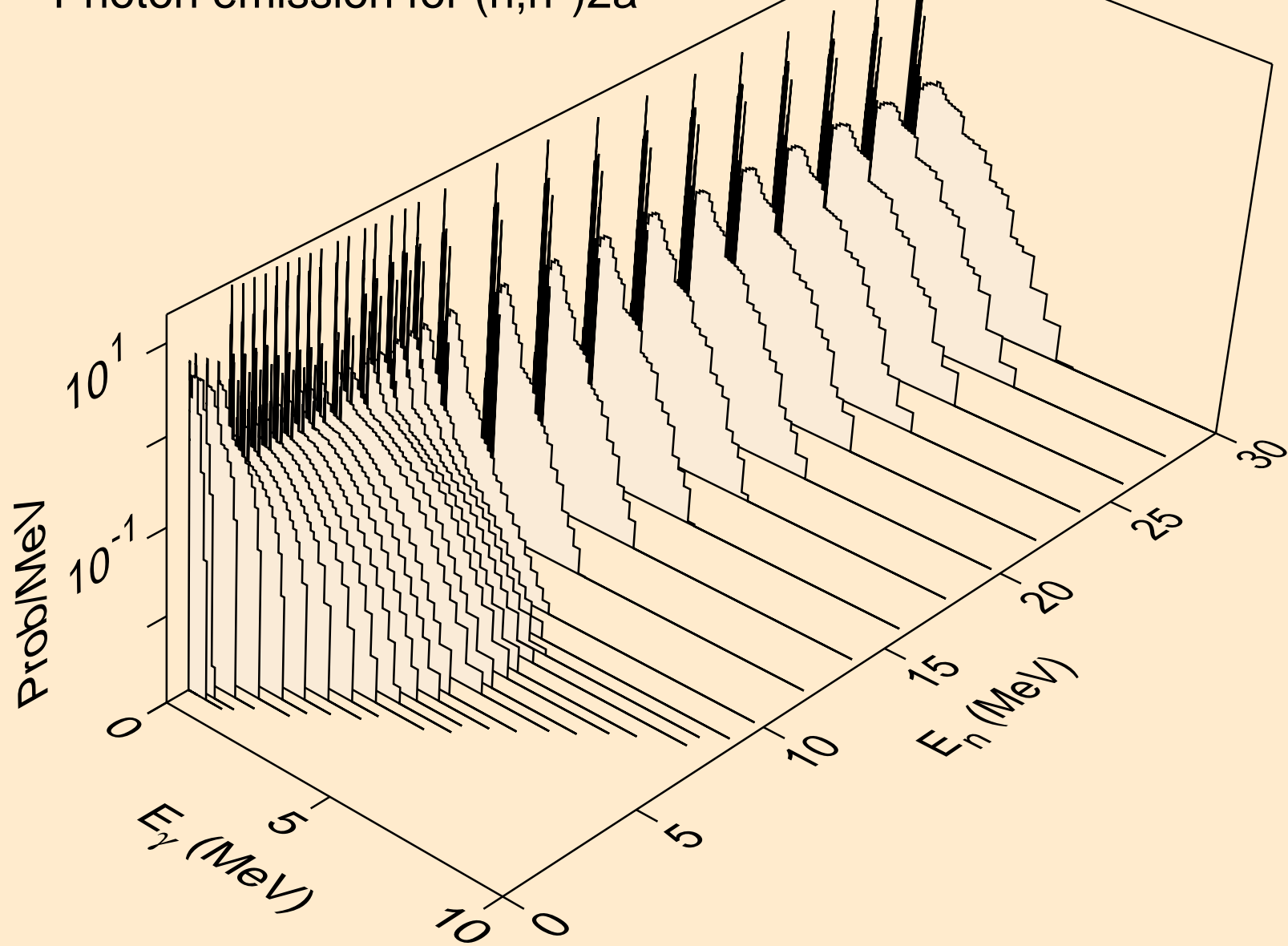


BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

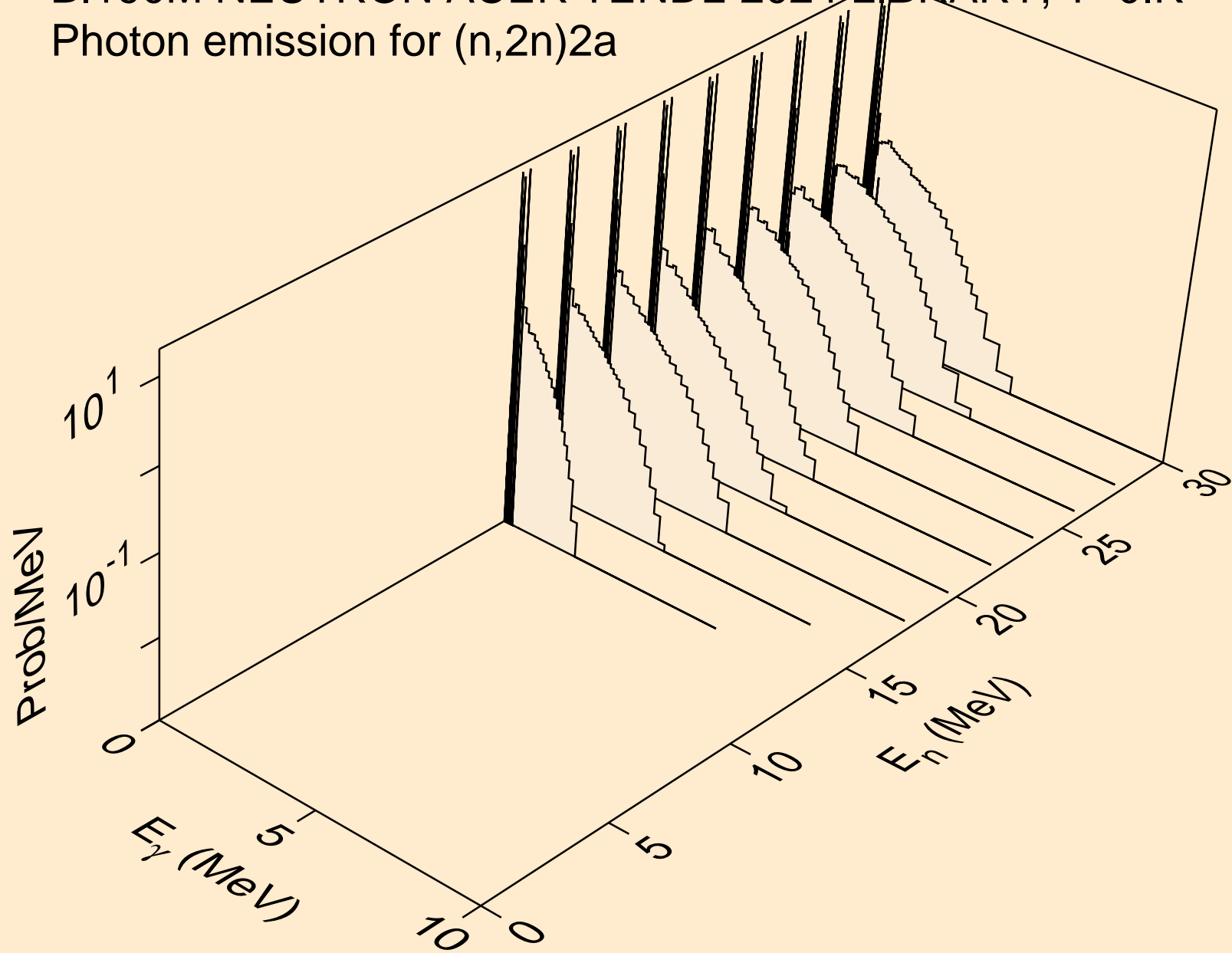




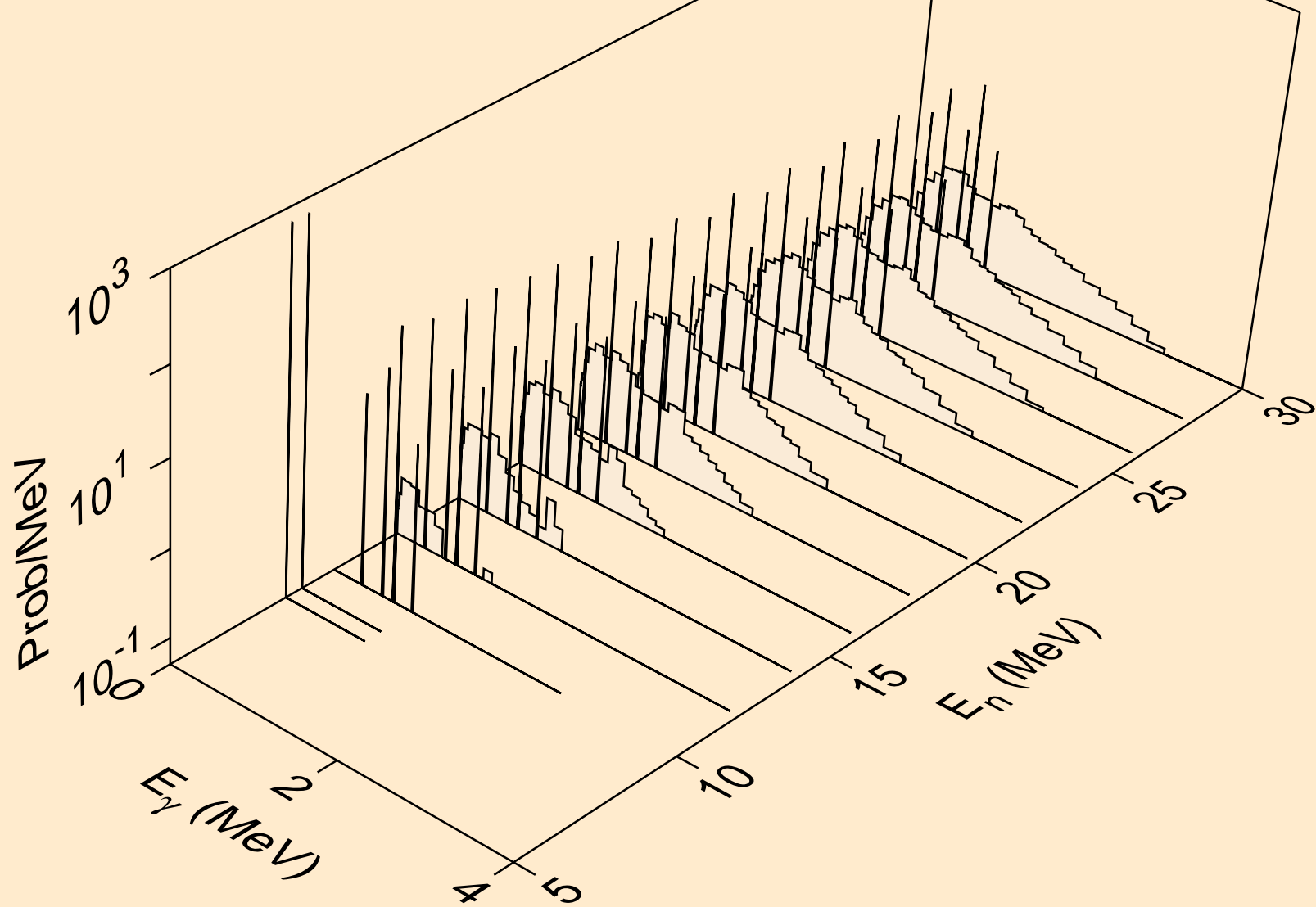
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Photon emission for (n,n\*)2a



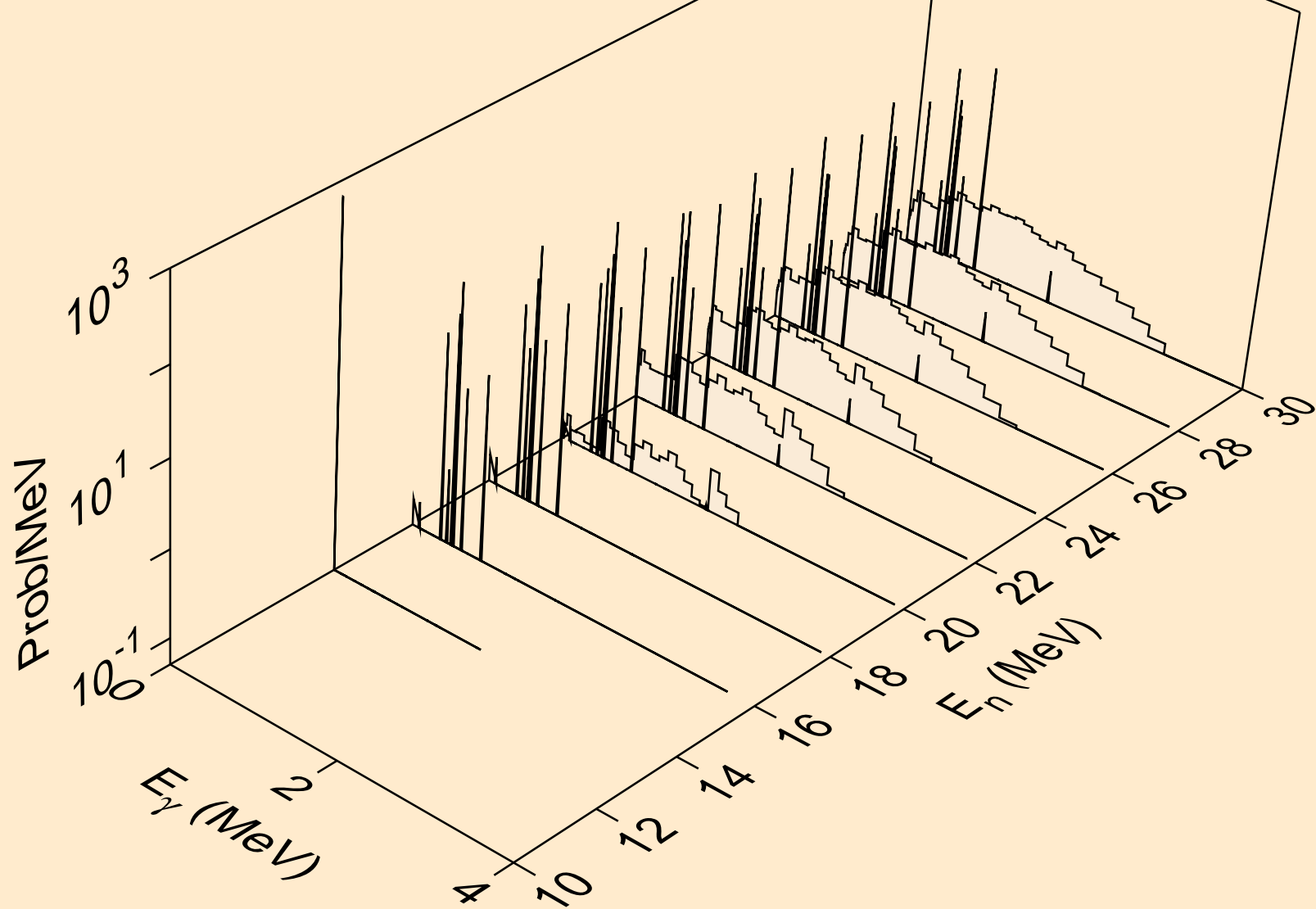
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



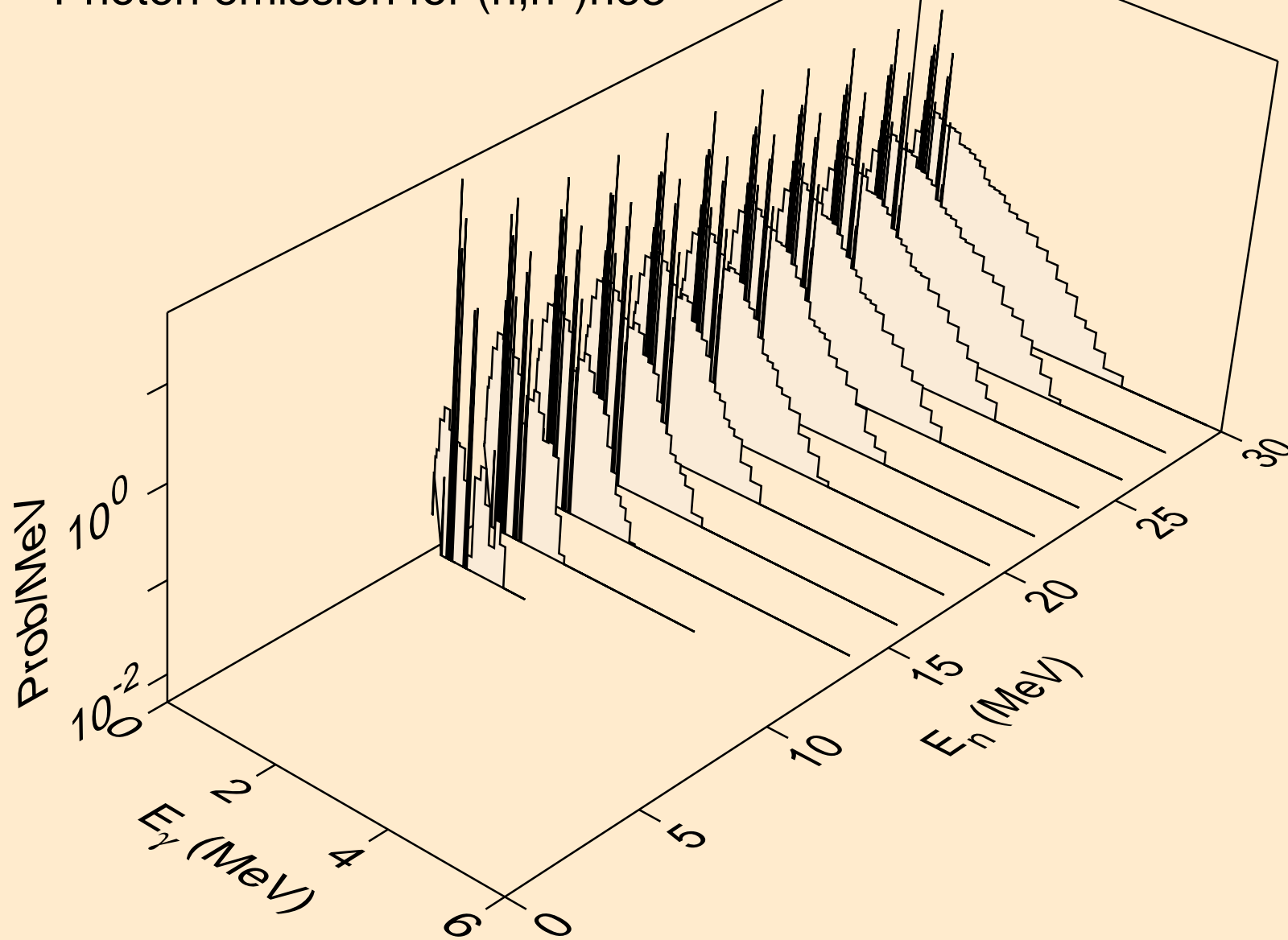
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



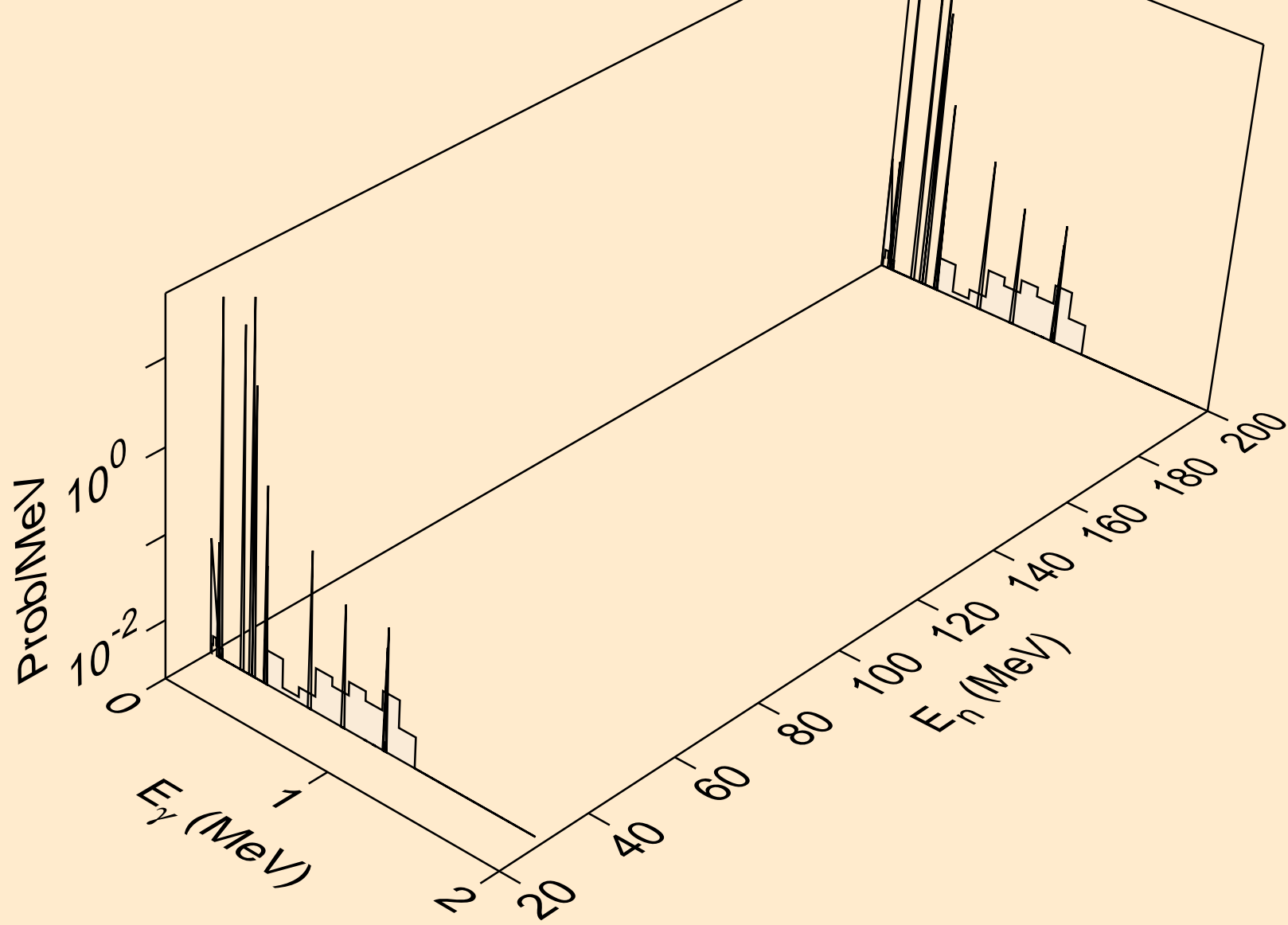
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



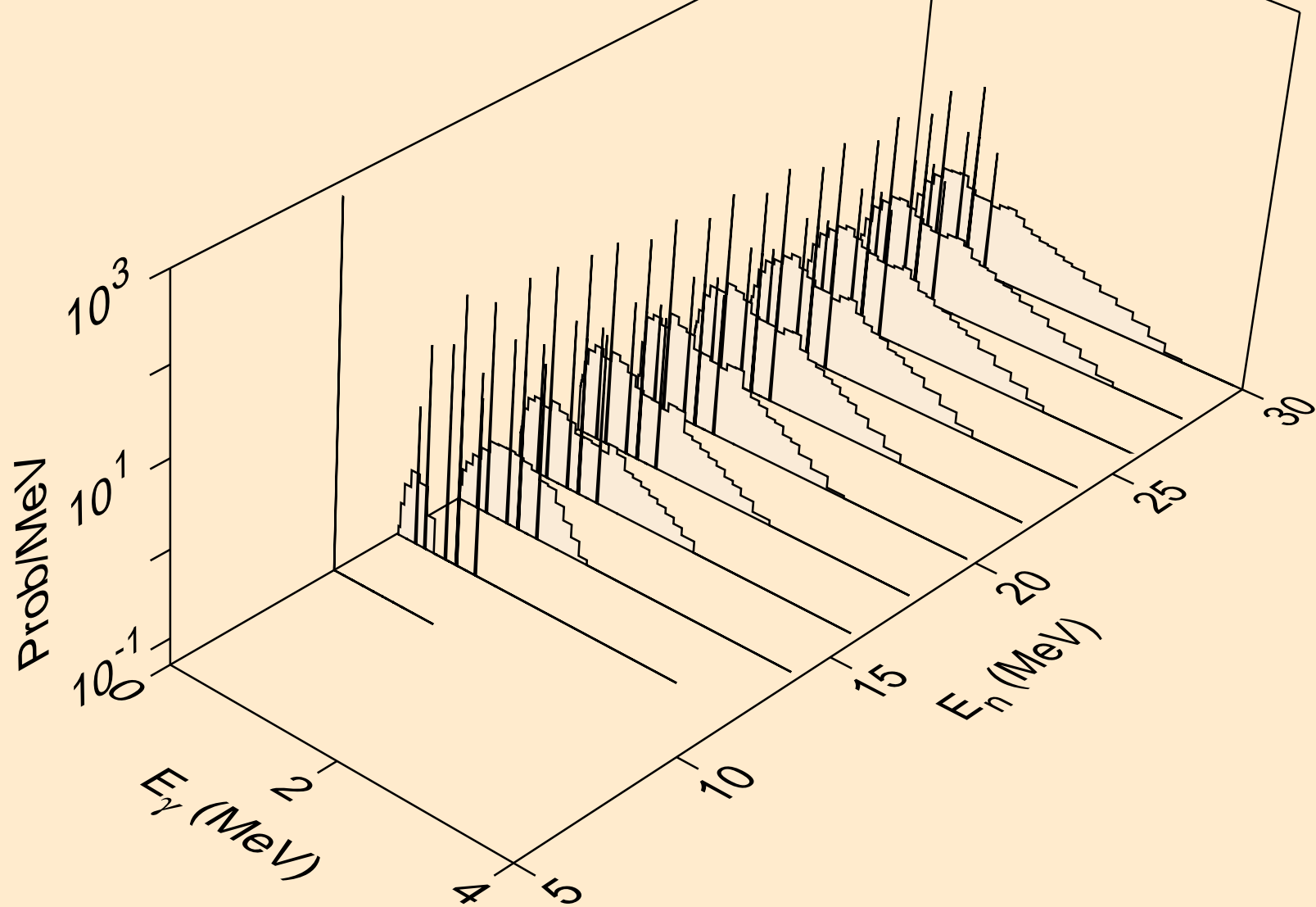
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Photon emission for (n,n\*)he3



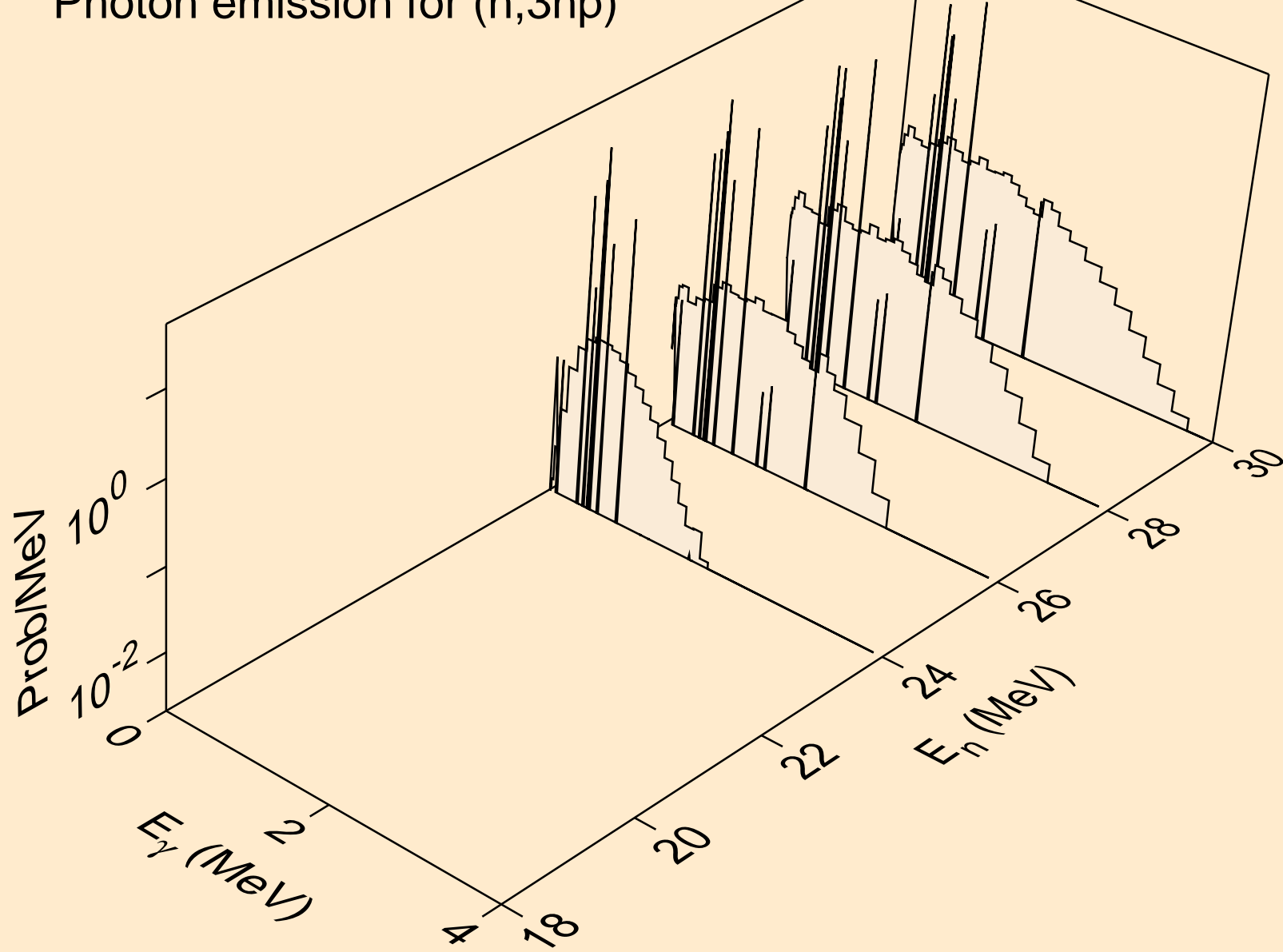
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)

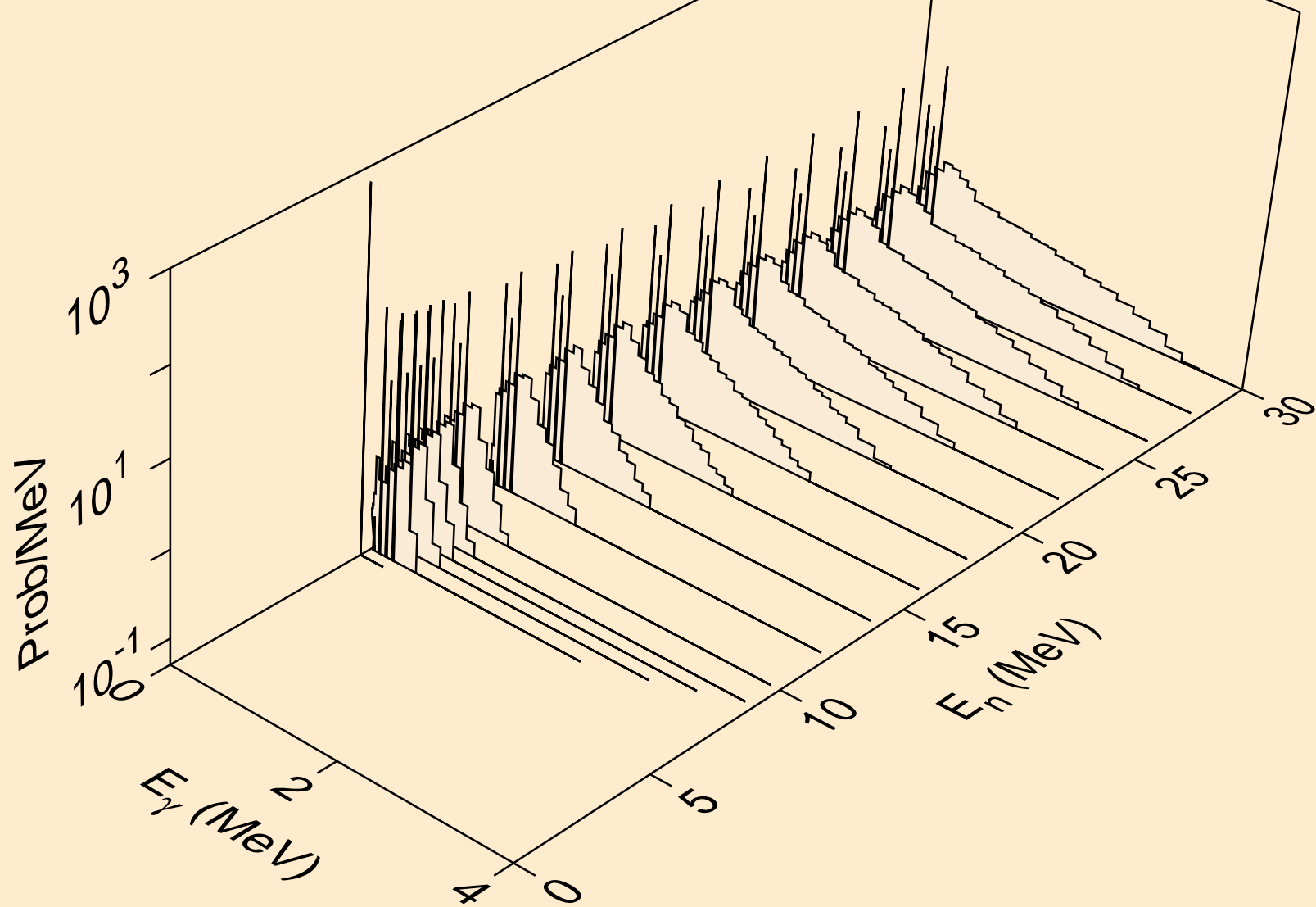


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Photon emission for (n,3np)

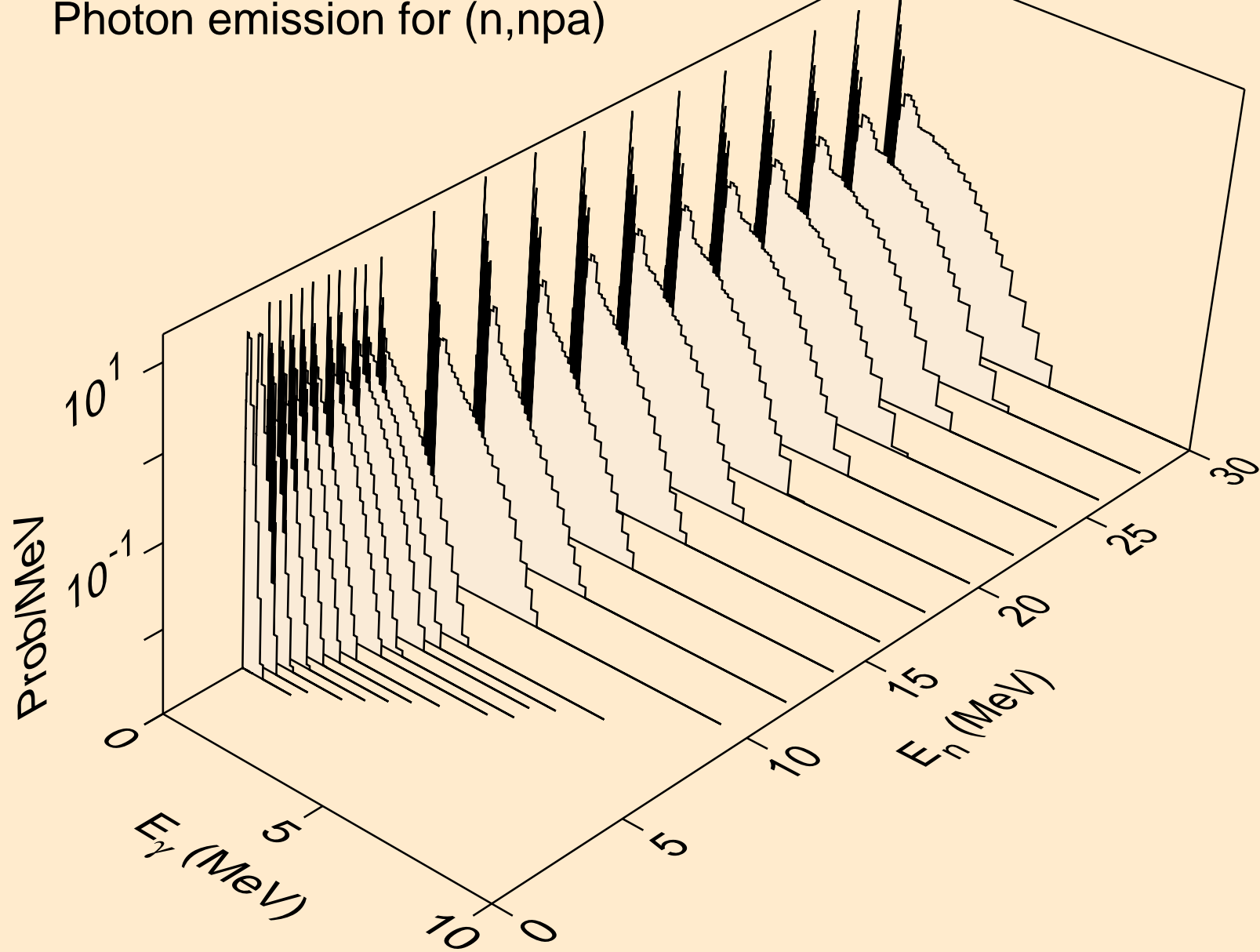




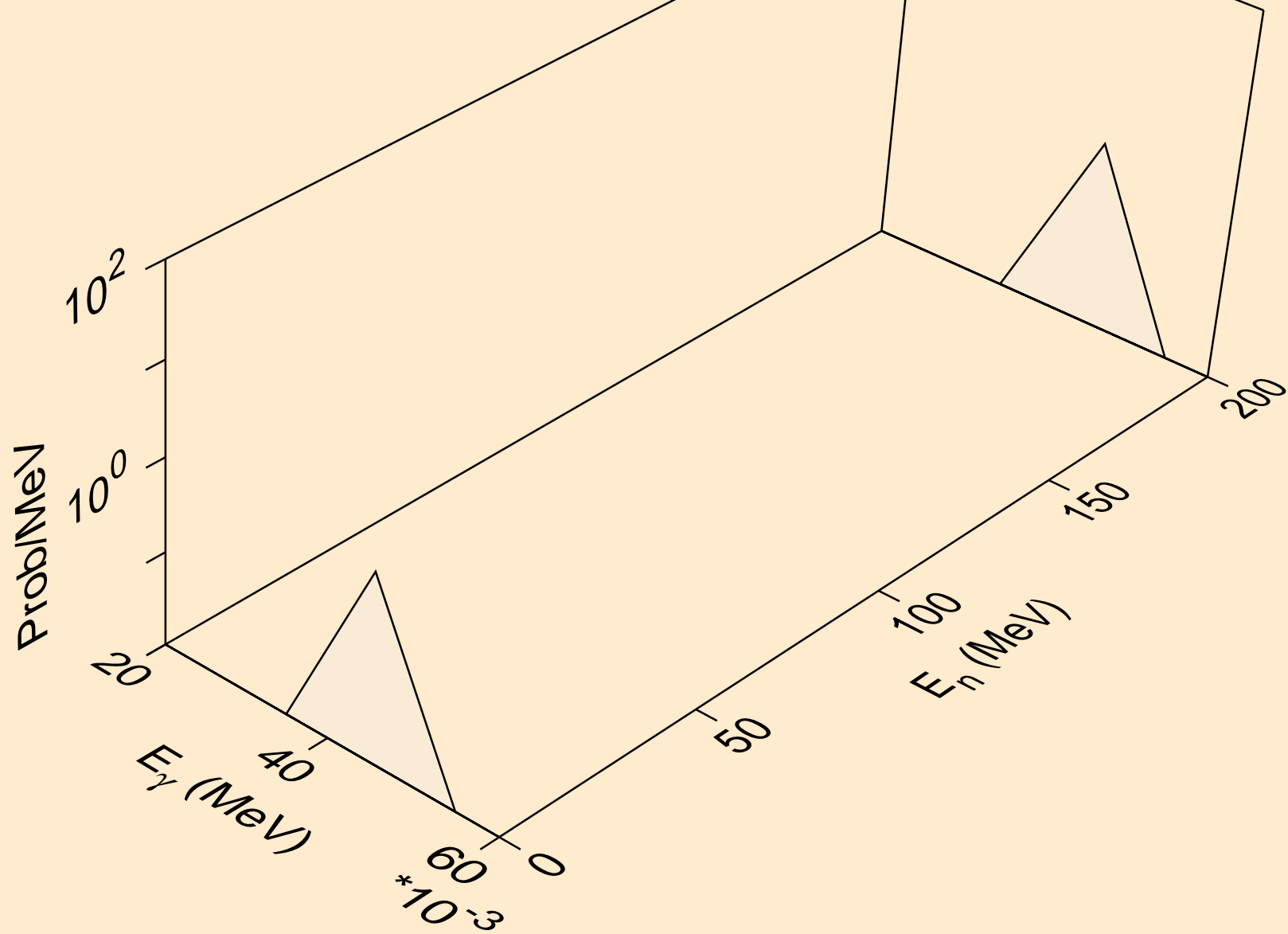
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n2p)



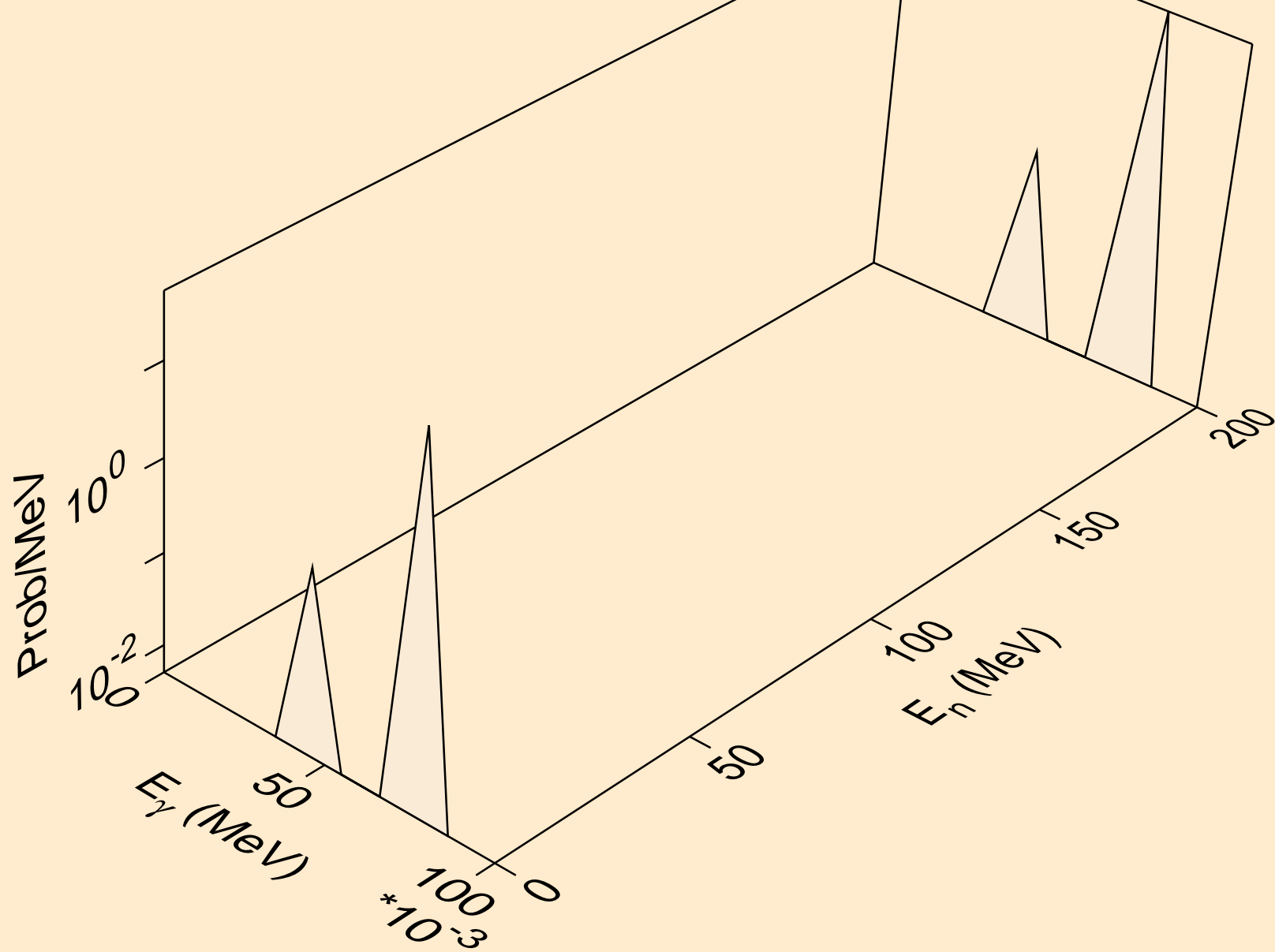
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,npa)



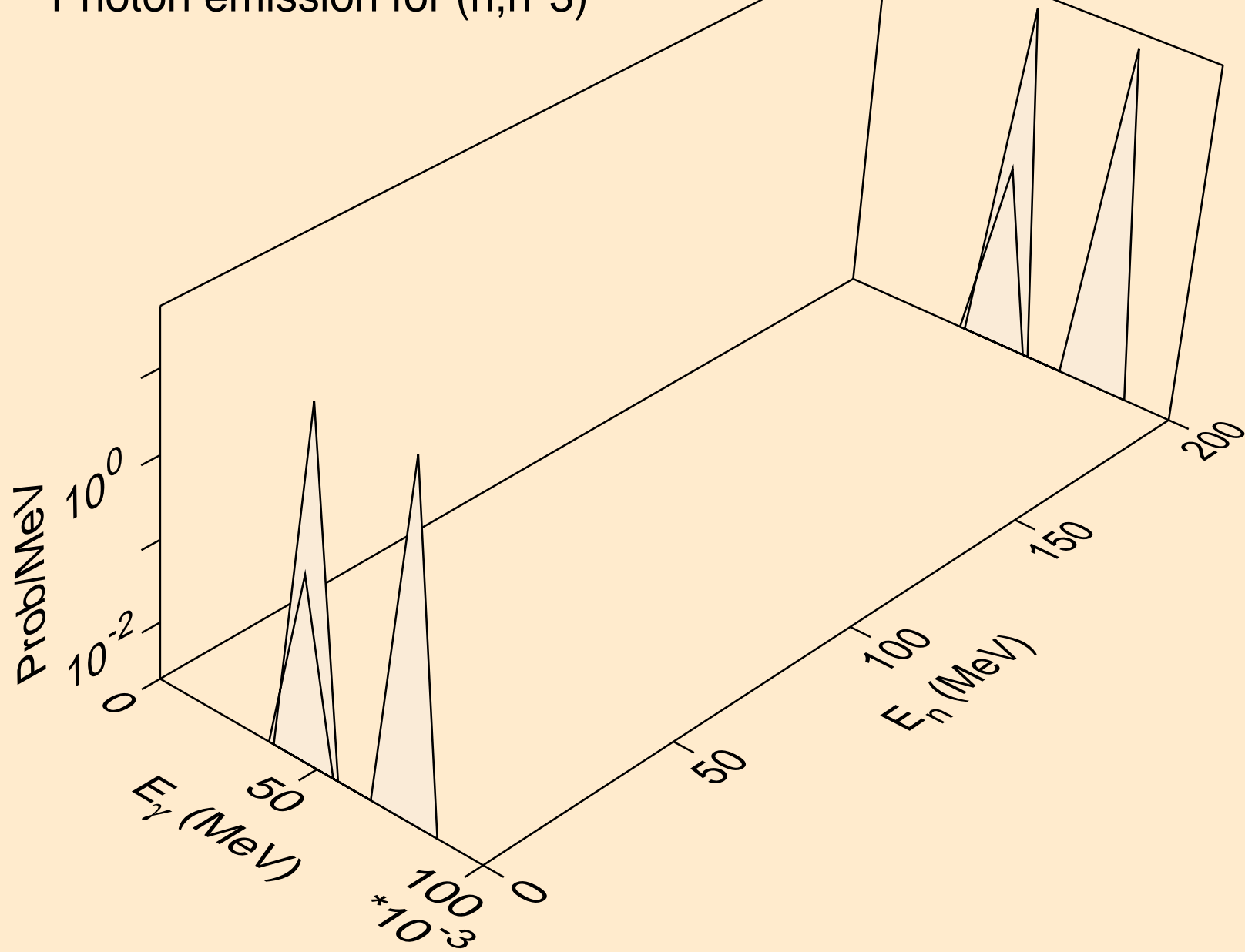
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*1)



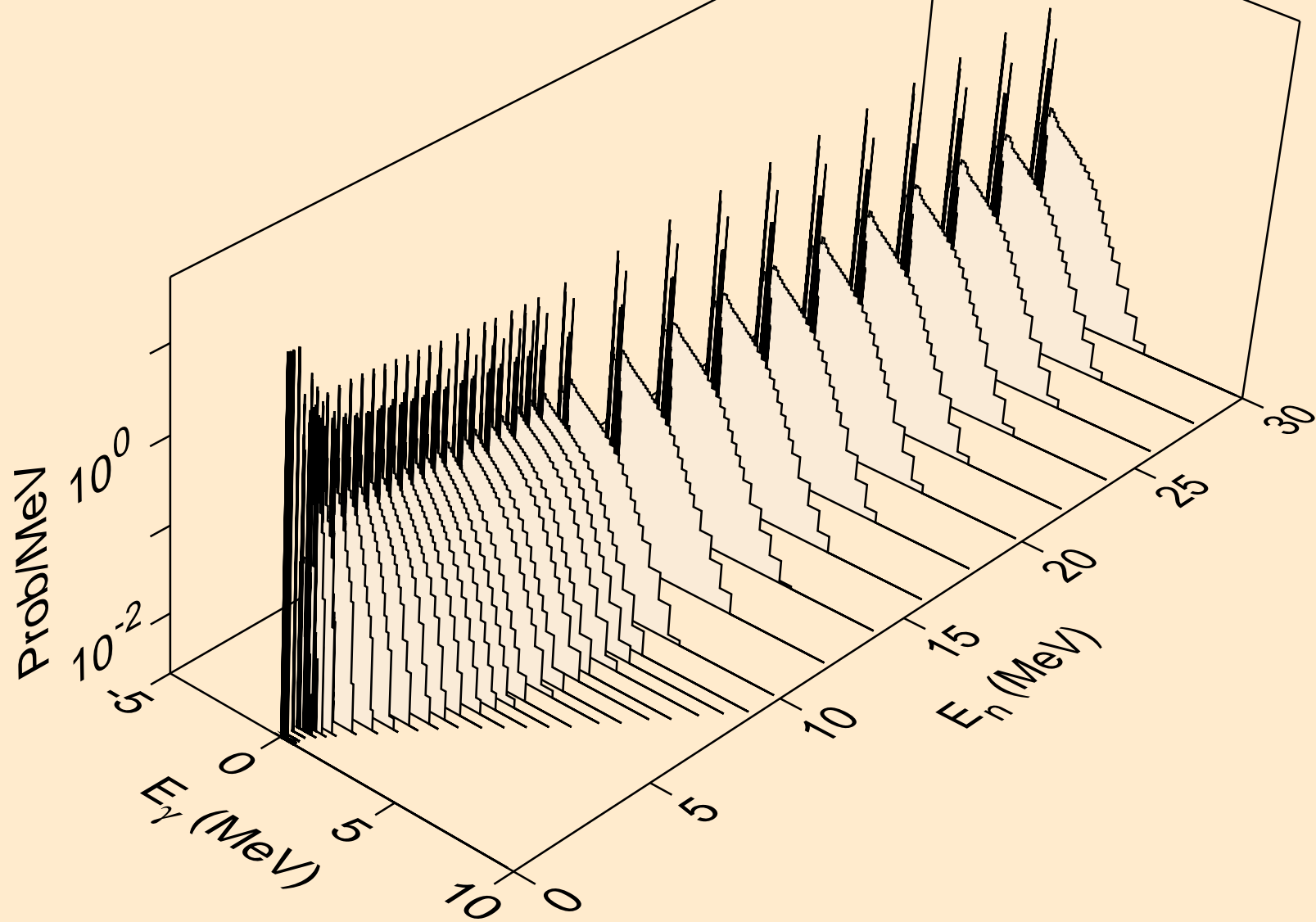
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*2)



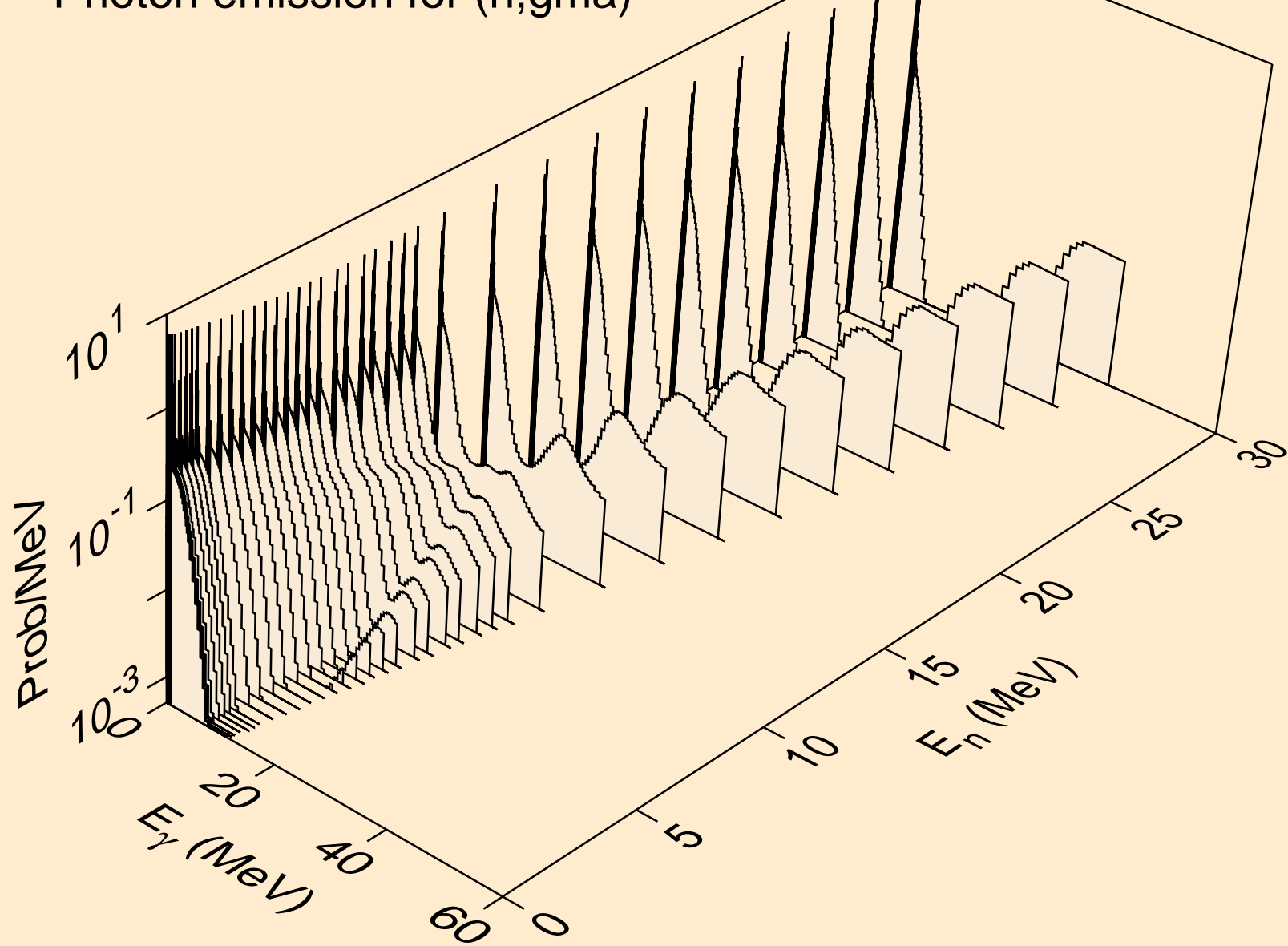
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*3)



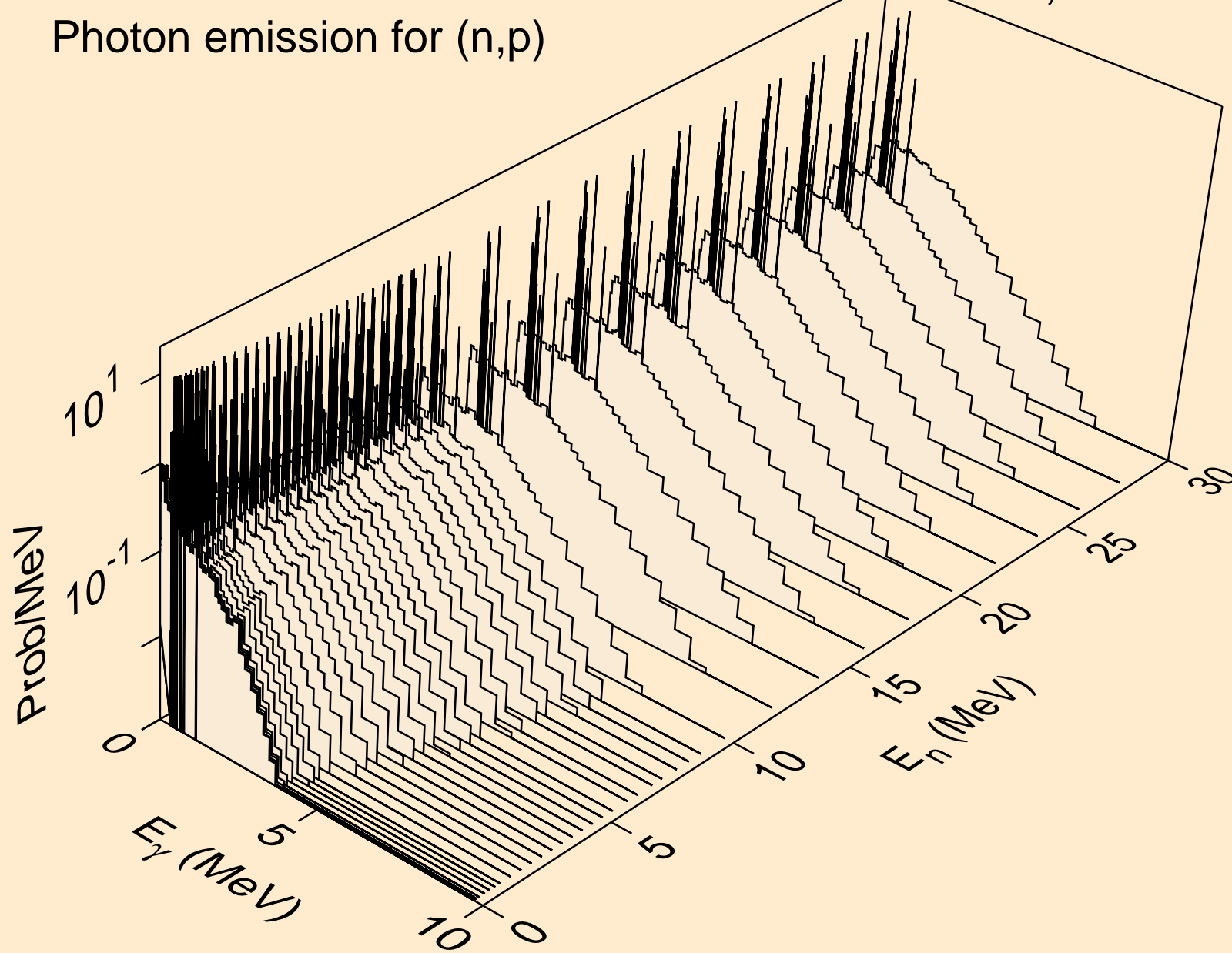
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)

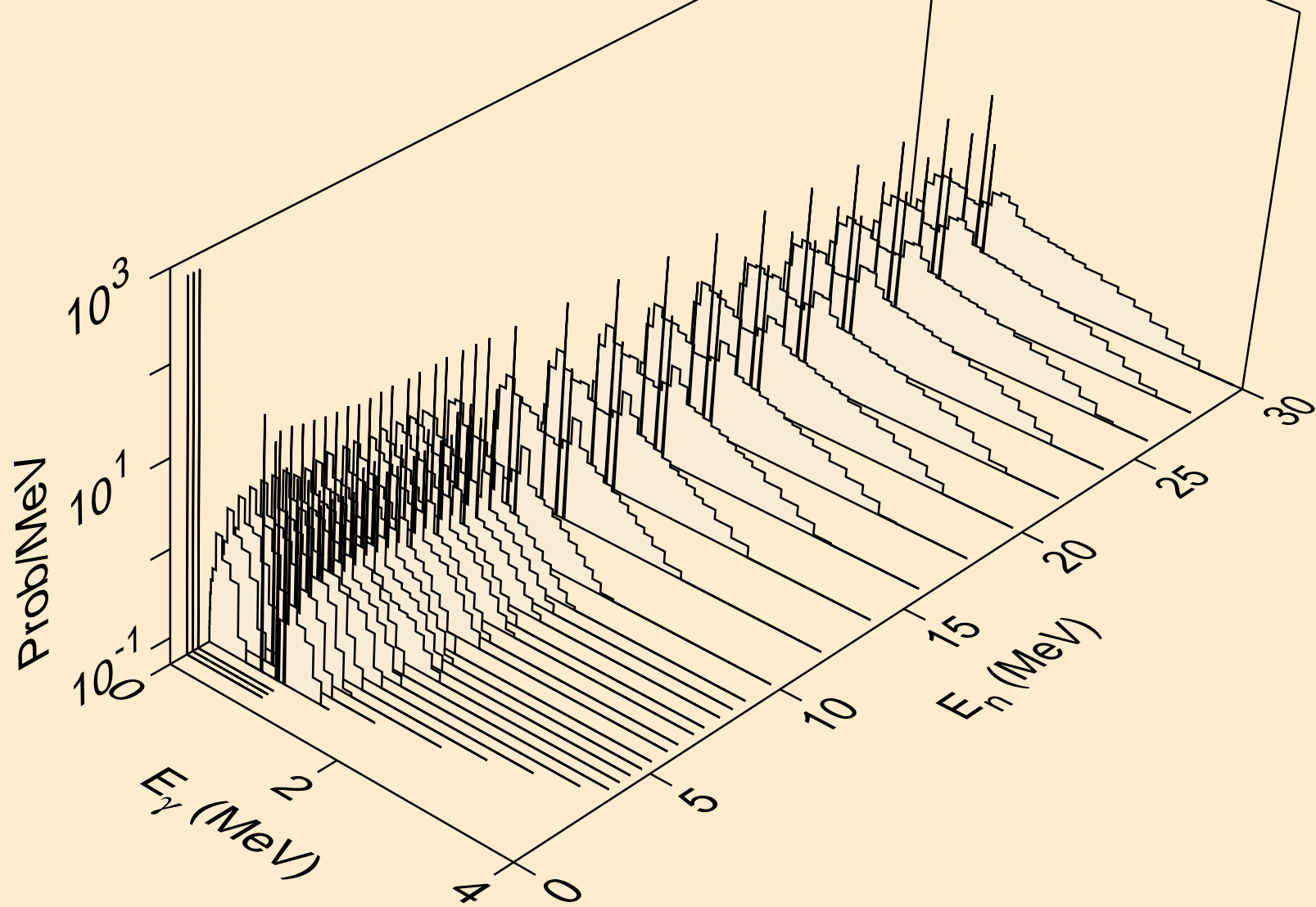


BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)

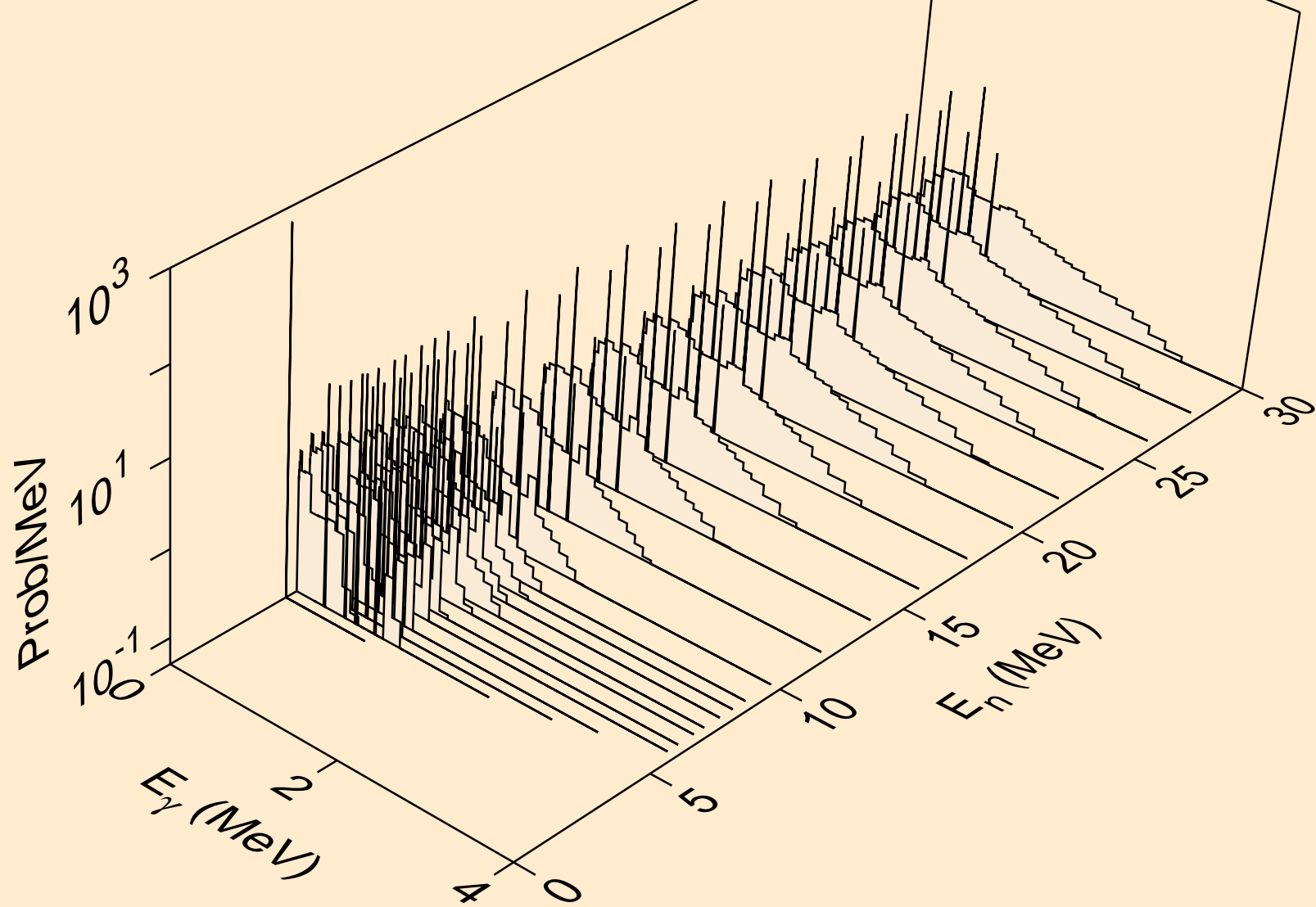




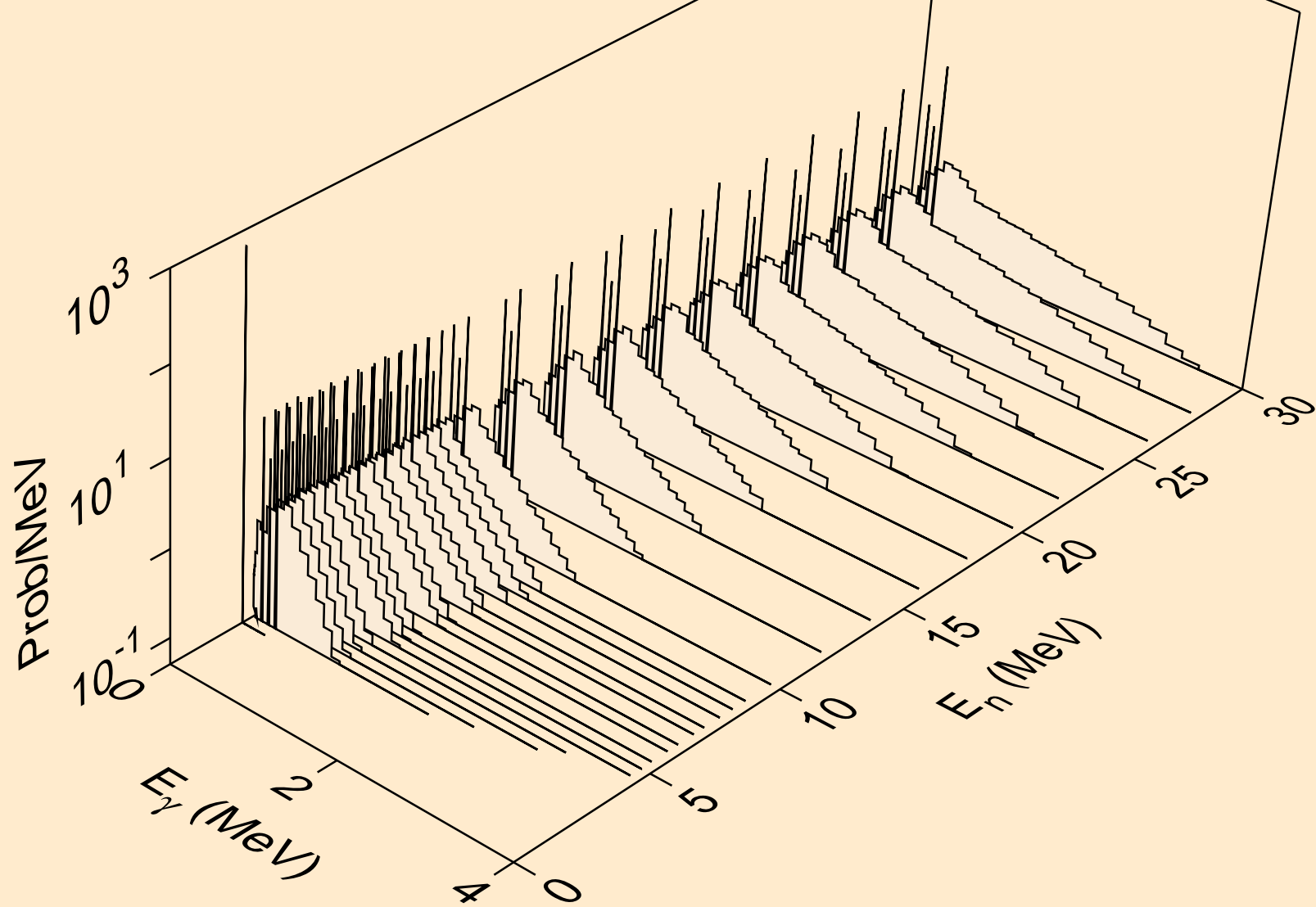
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)



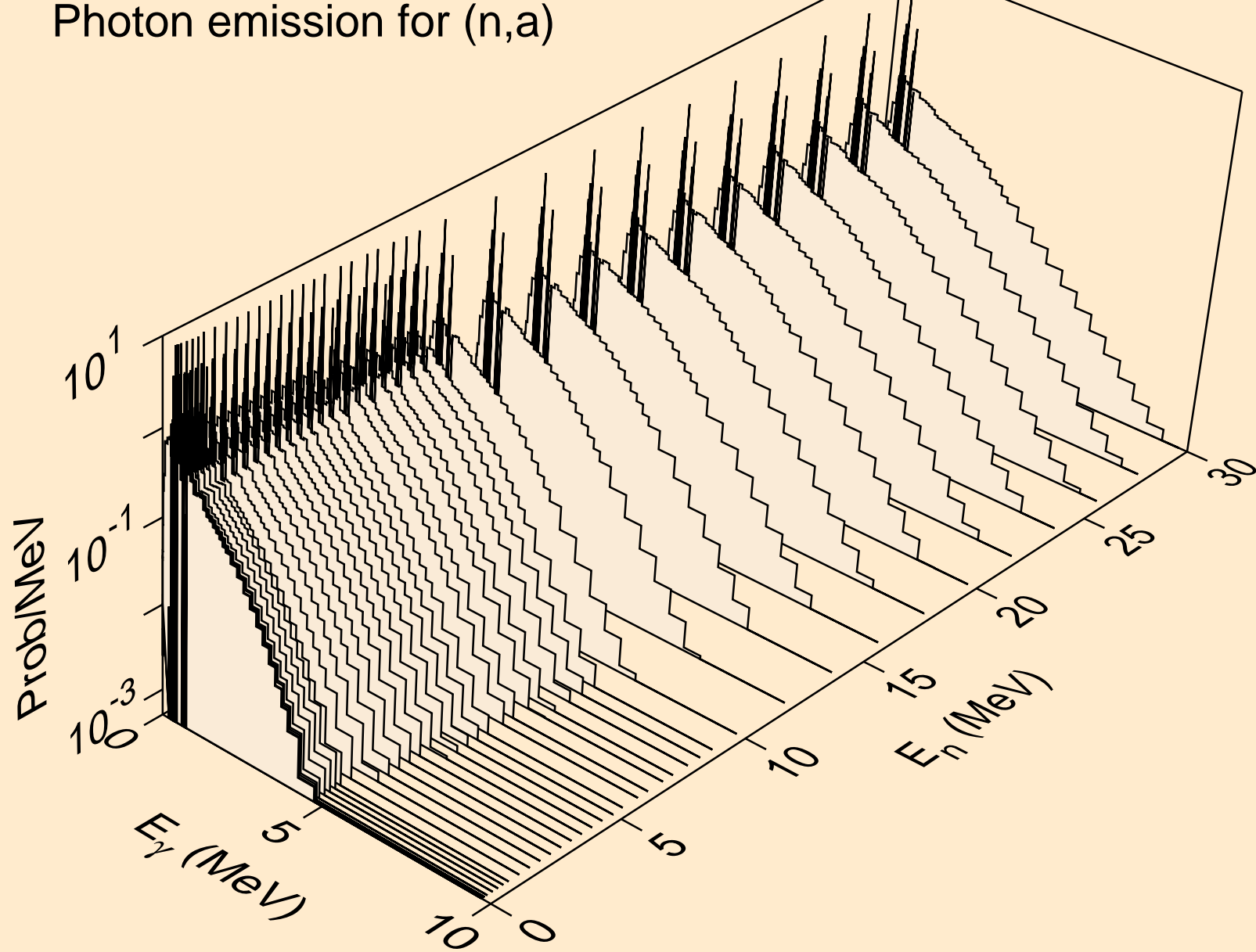
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t)



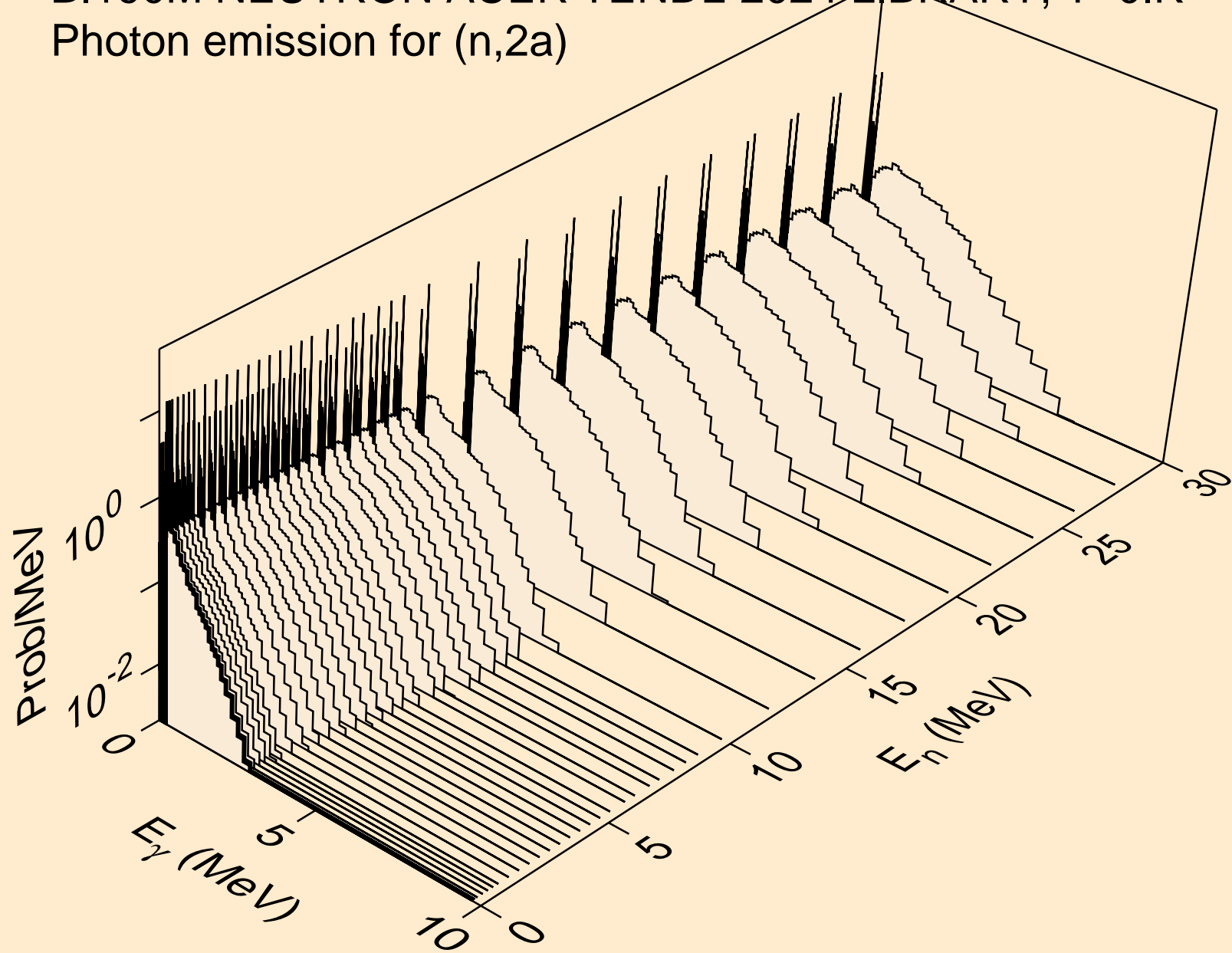
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Photon emission for (n,he3)



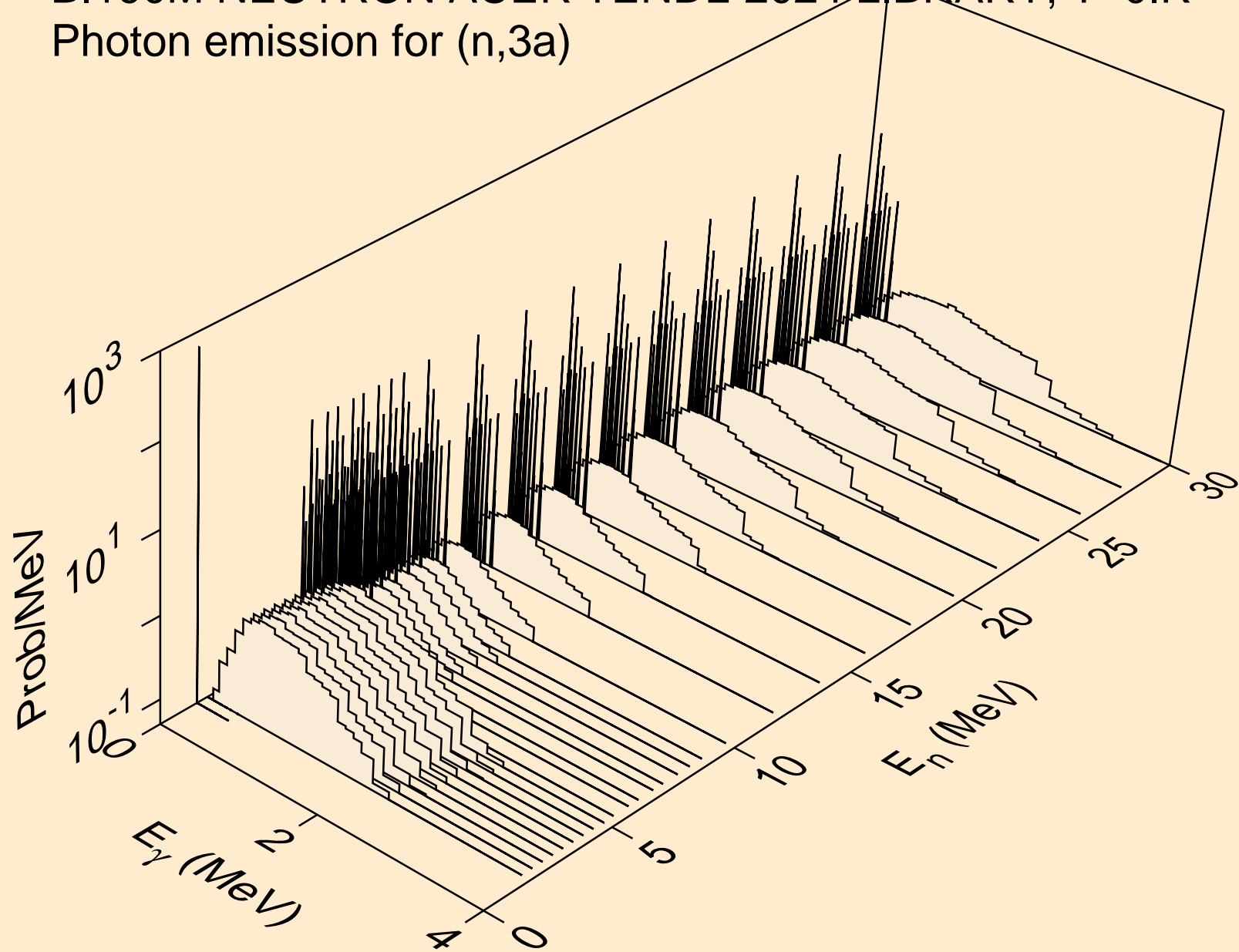
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,a)



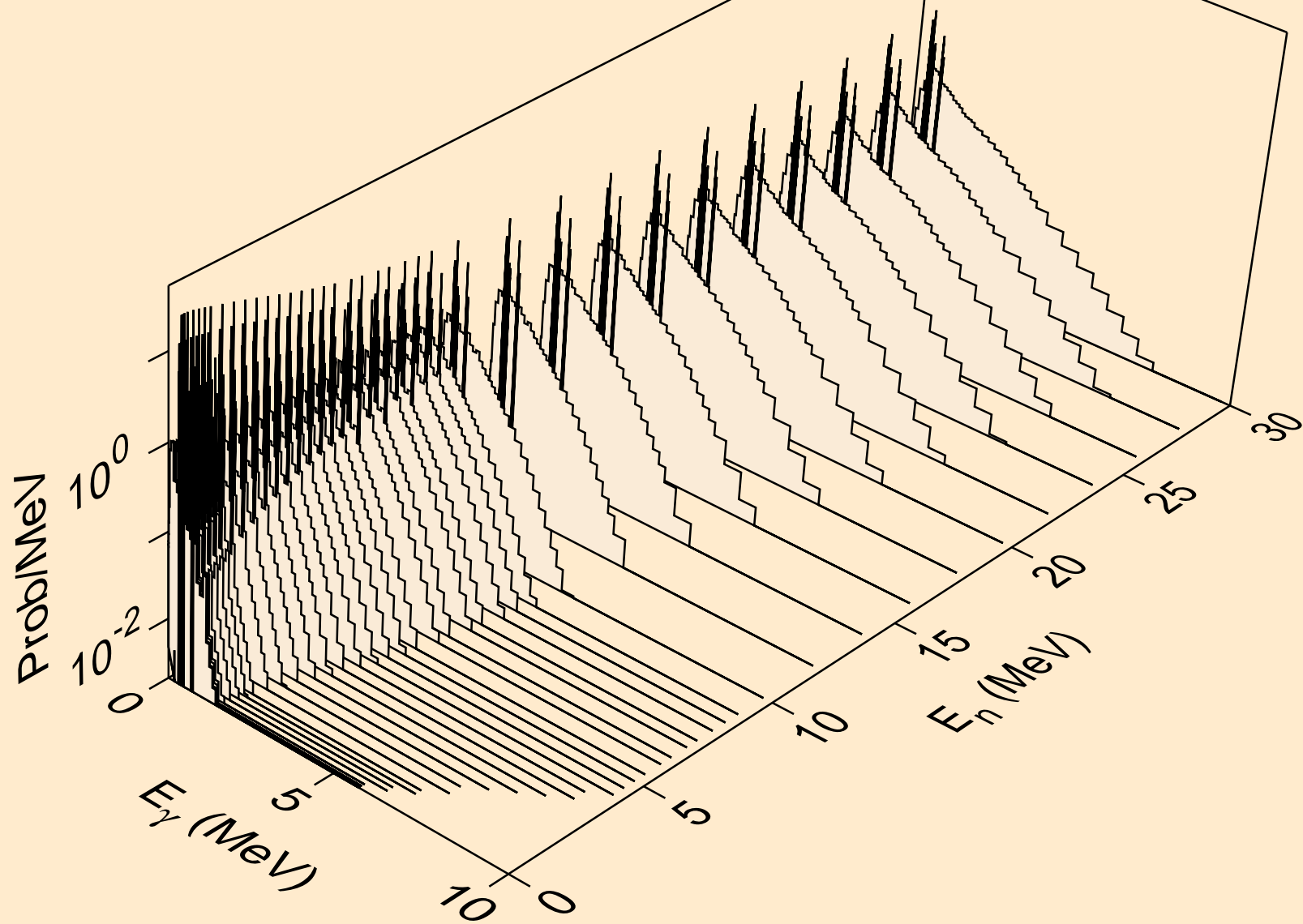
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2a)



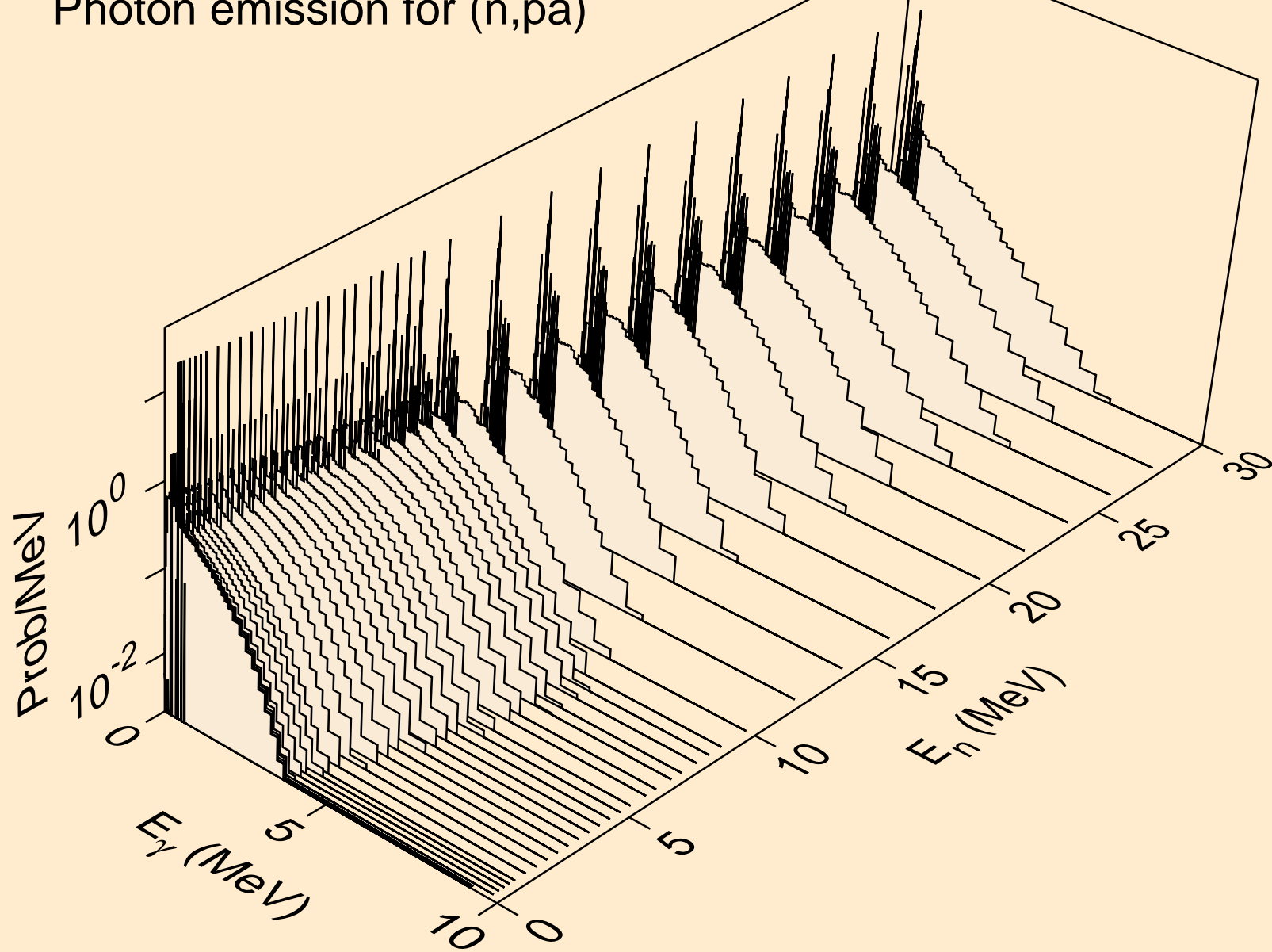
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3a)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2p)

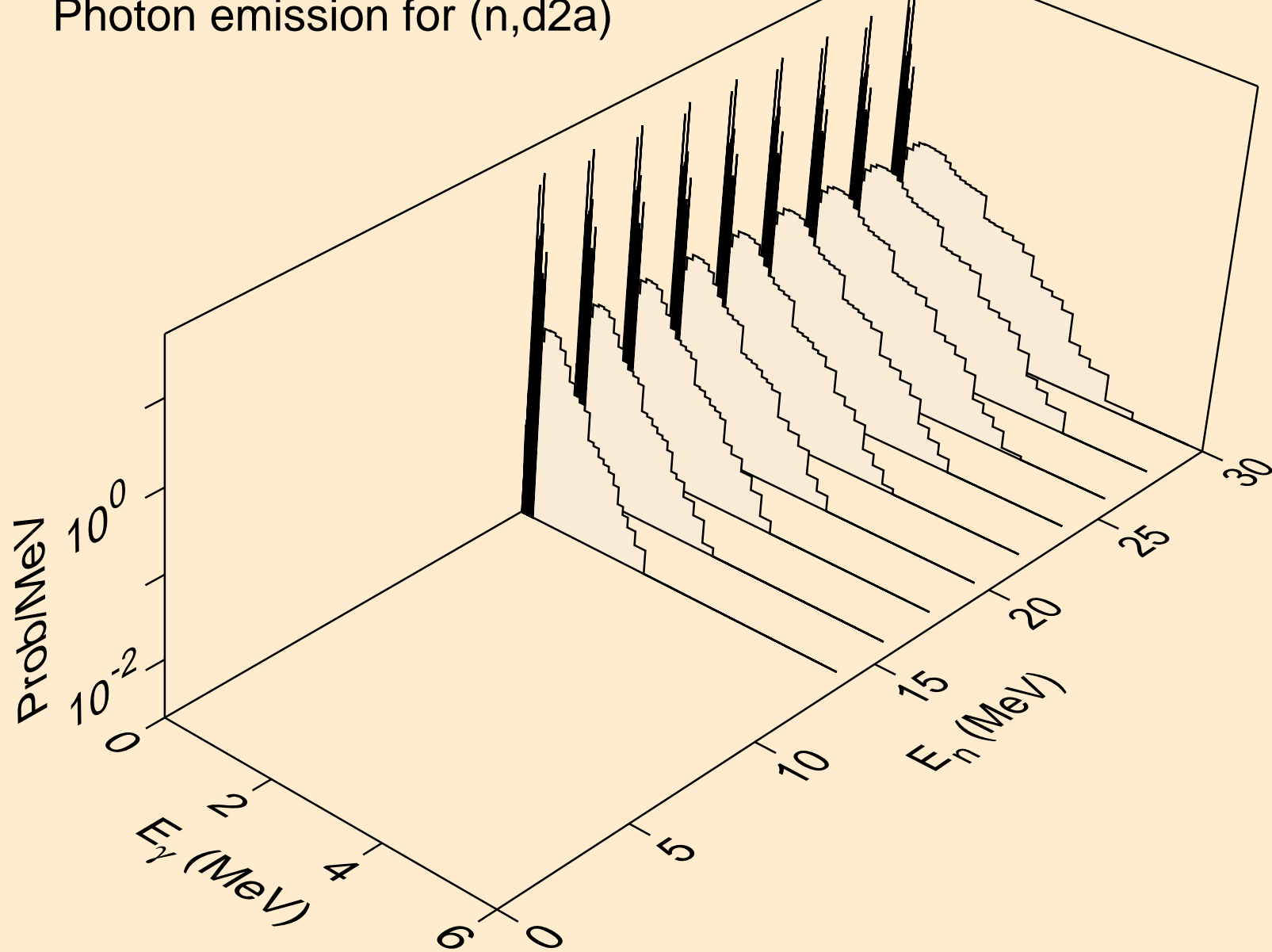


BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )

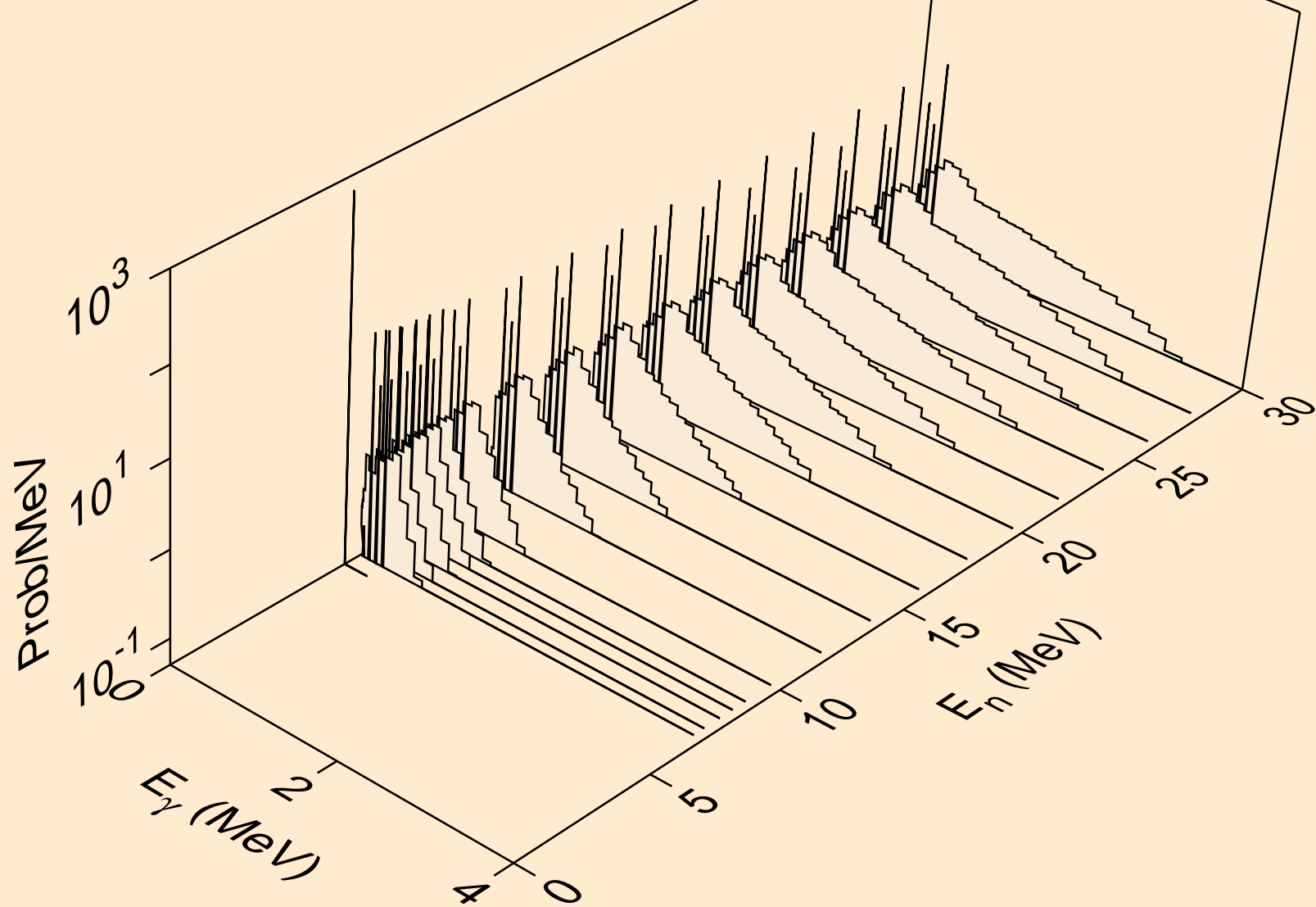




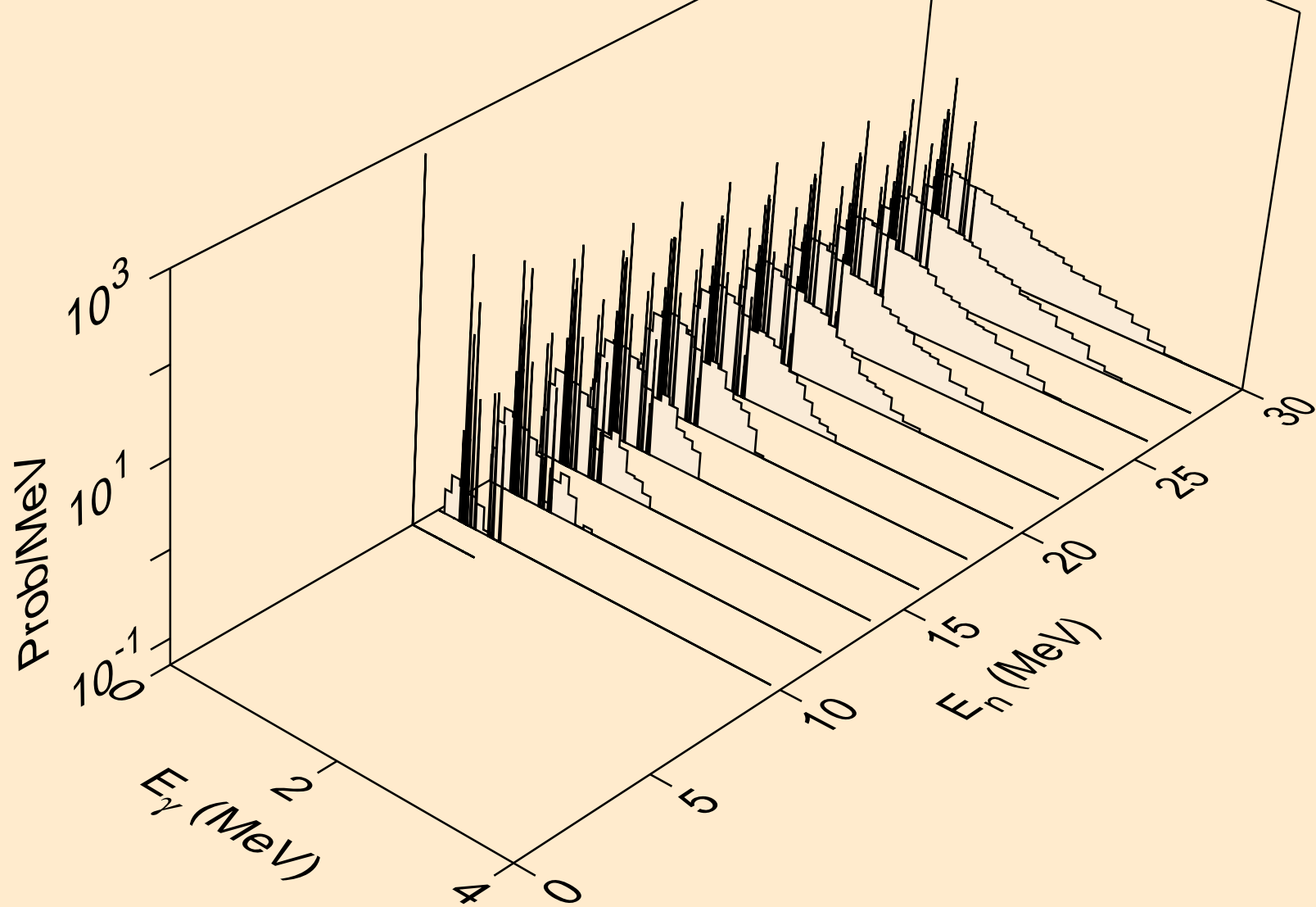
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d2a)



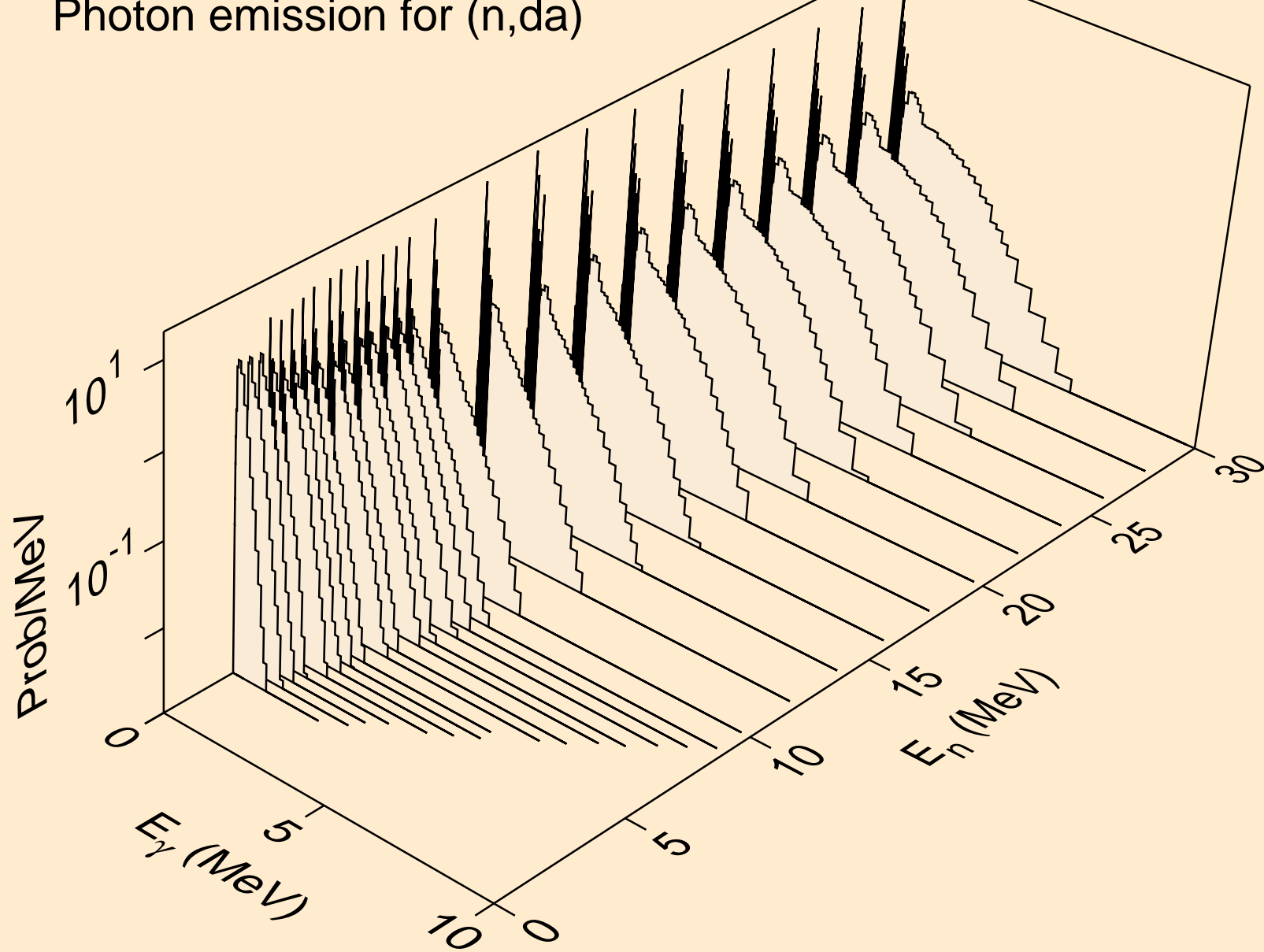
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)



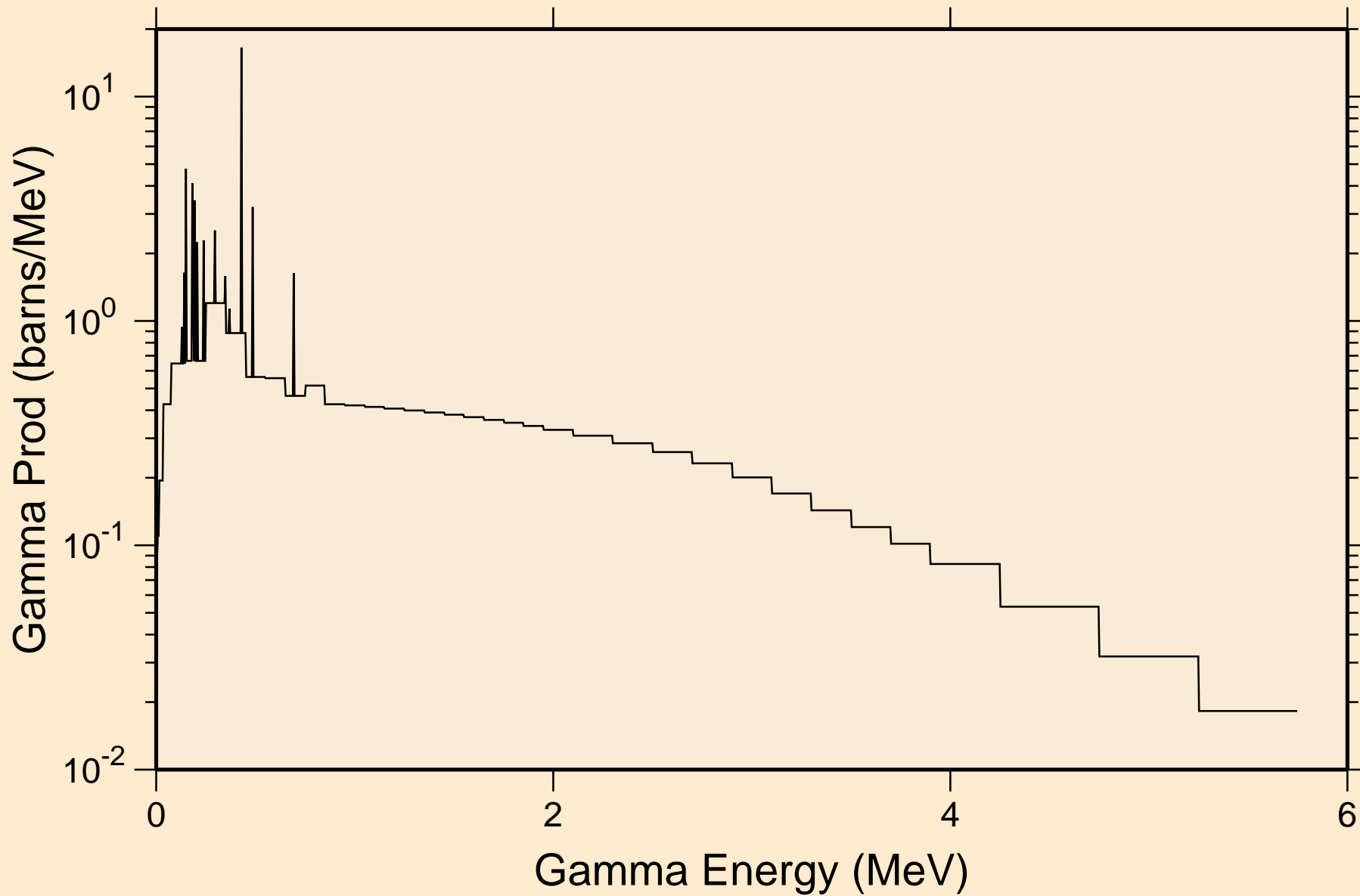
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)



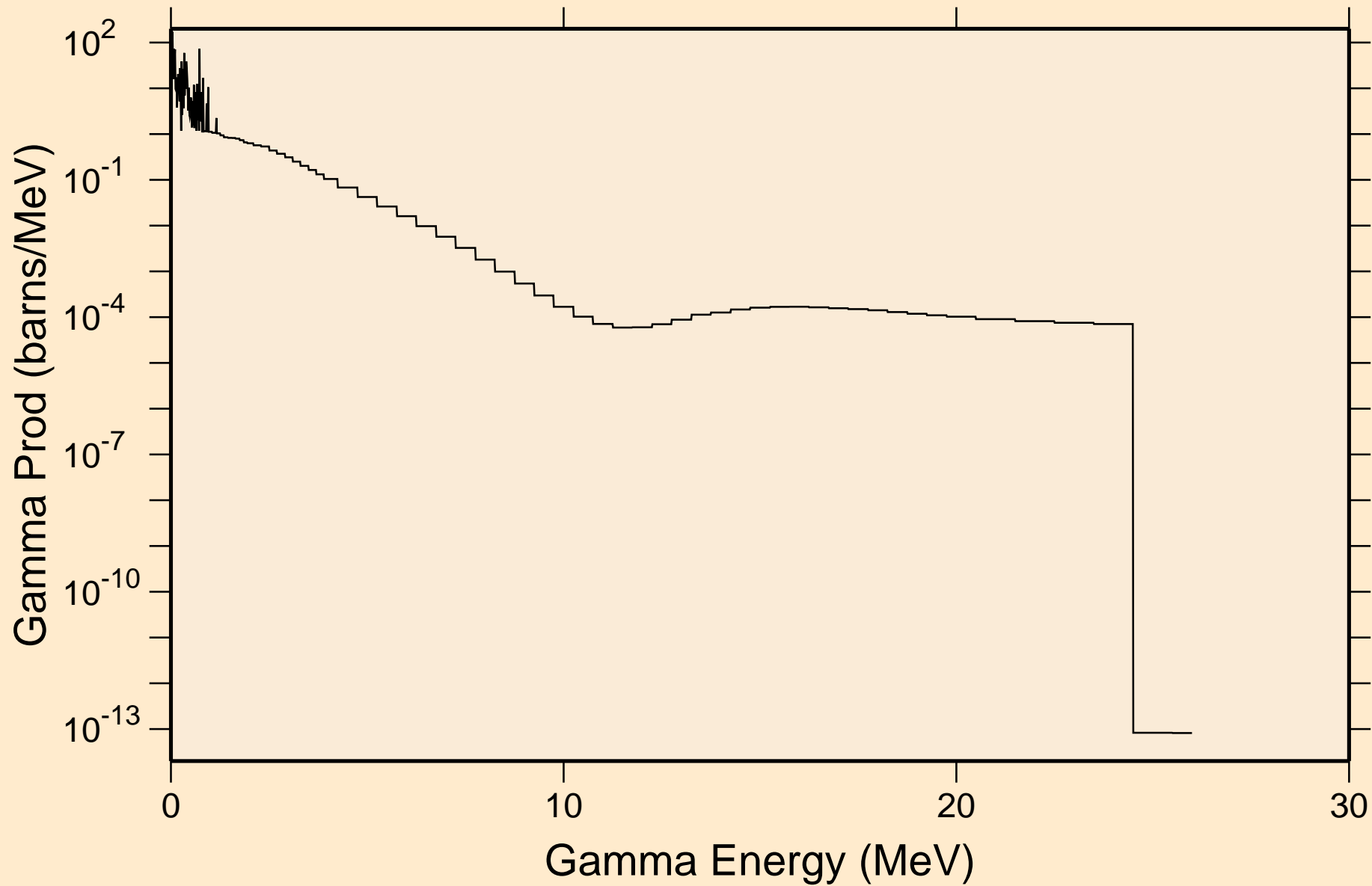
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

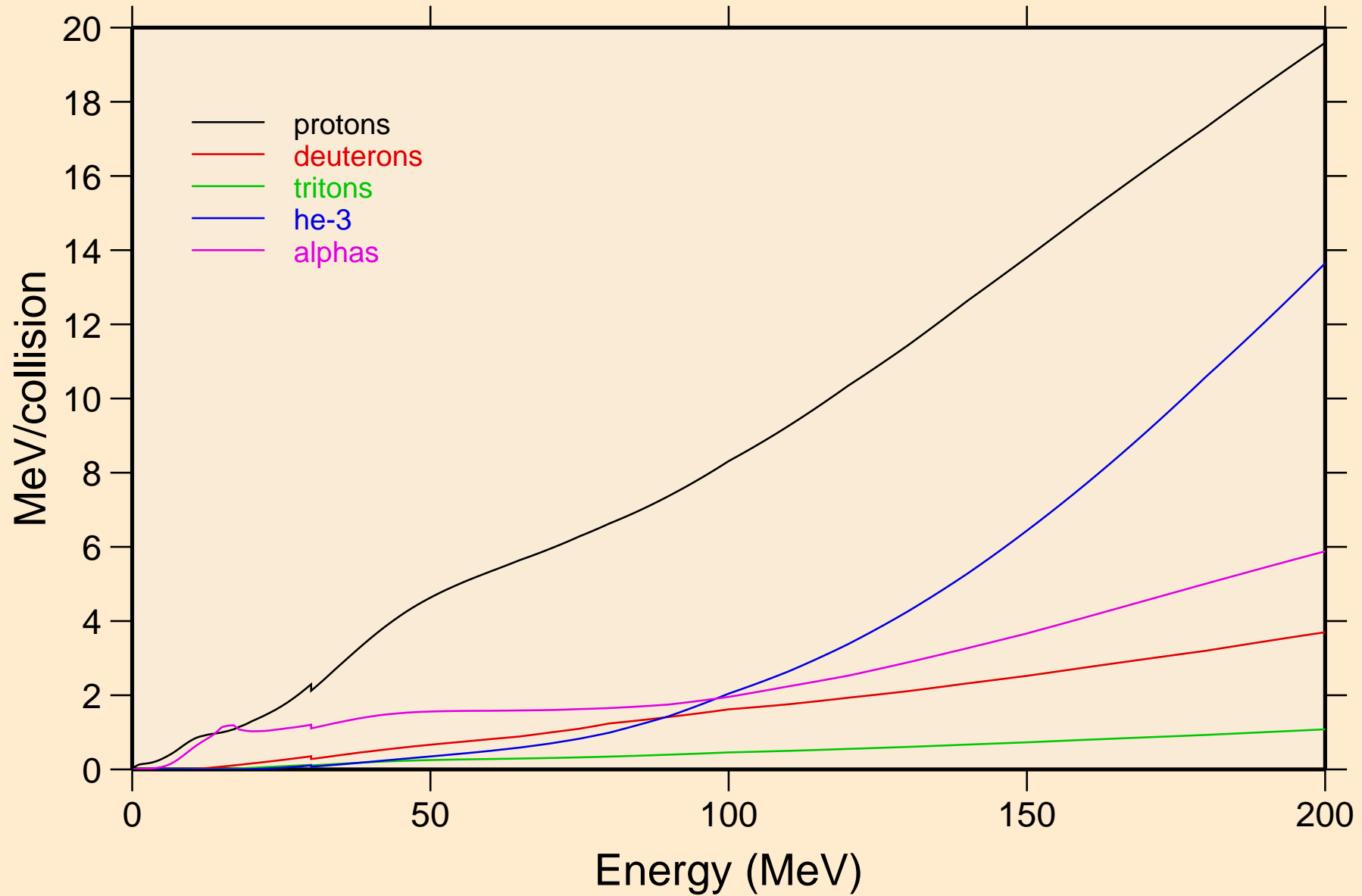


BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

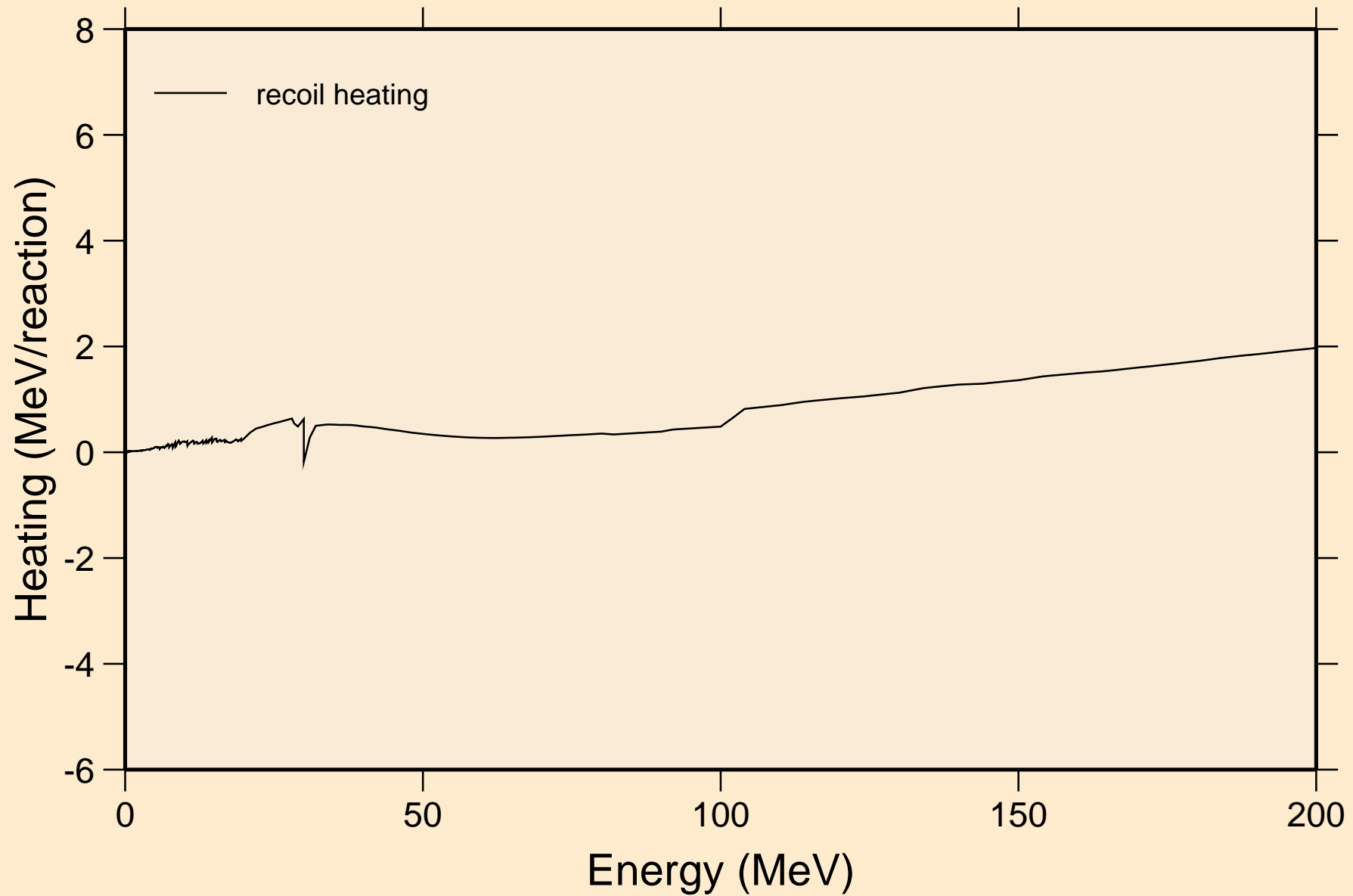


# BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Particle heating contributions

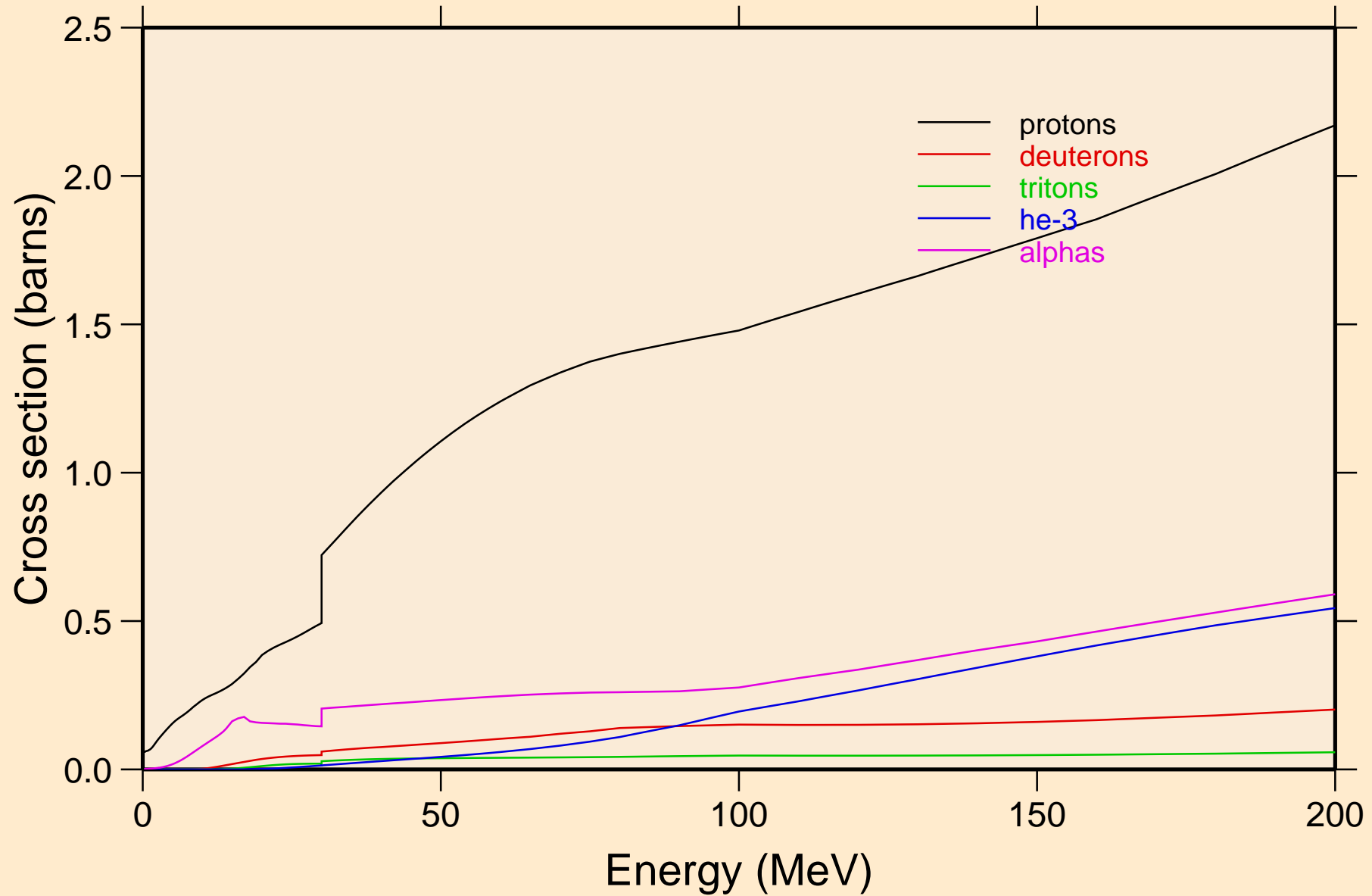


BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Recoil Heating

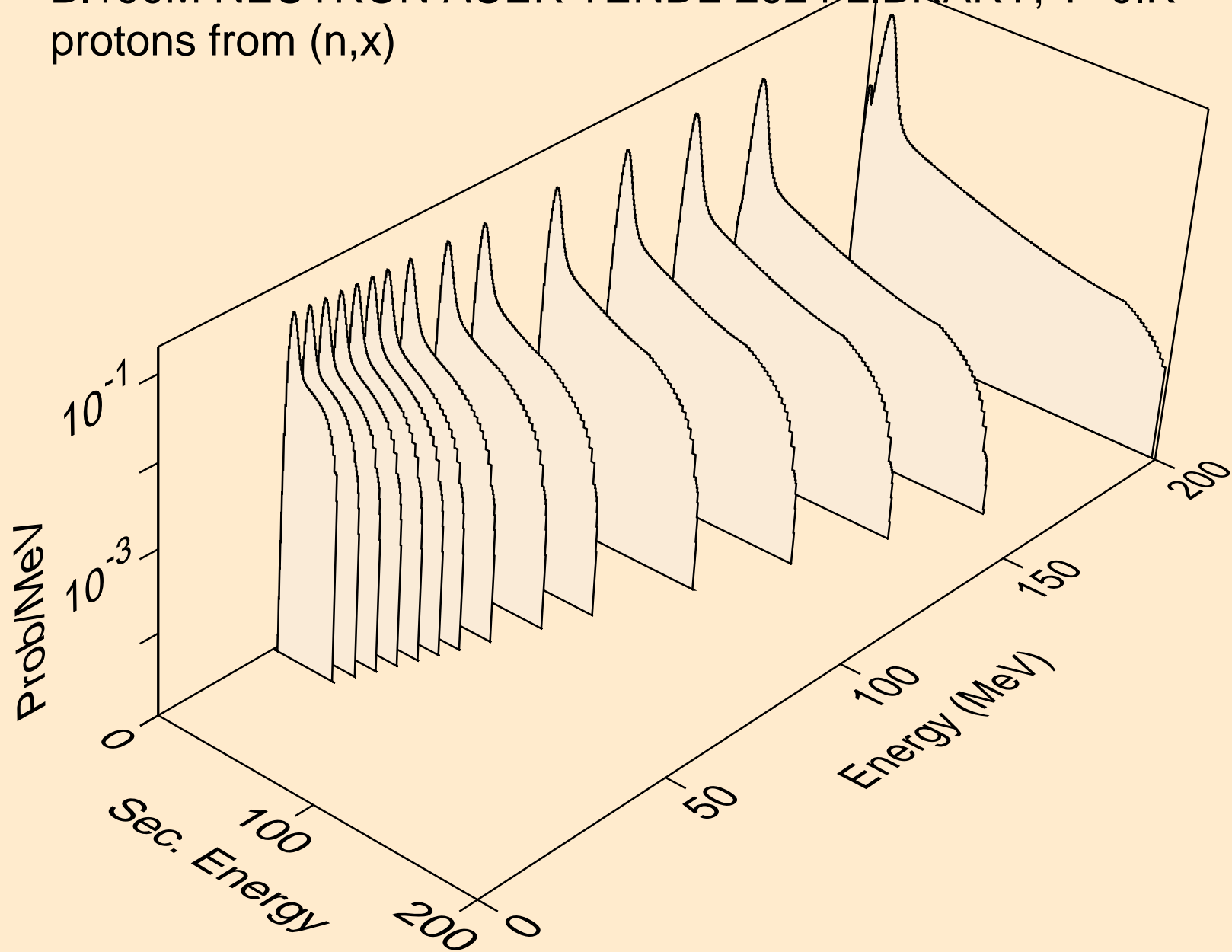




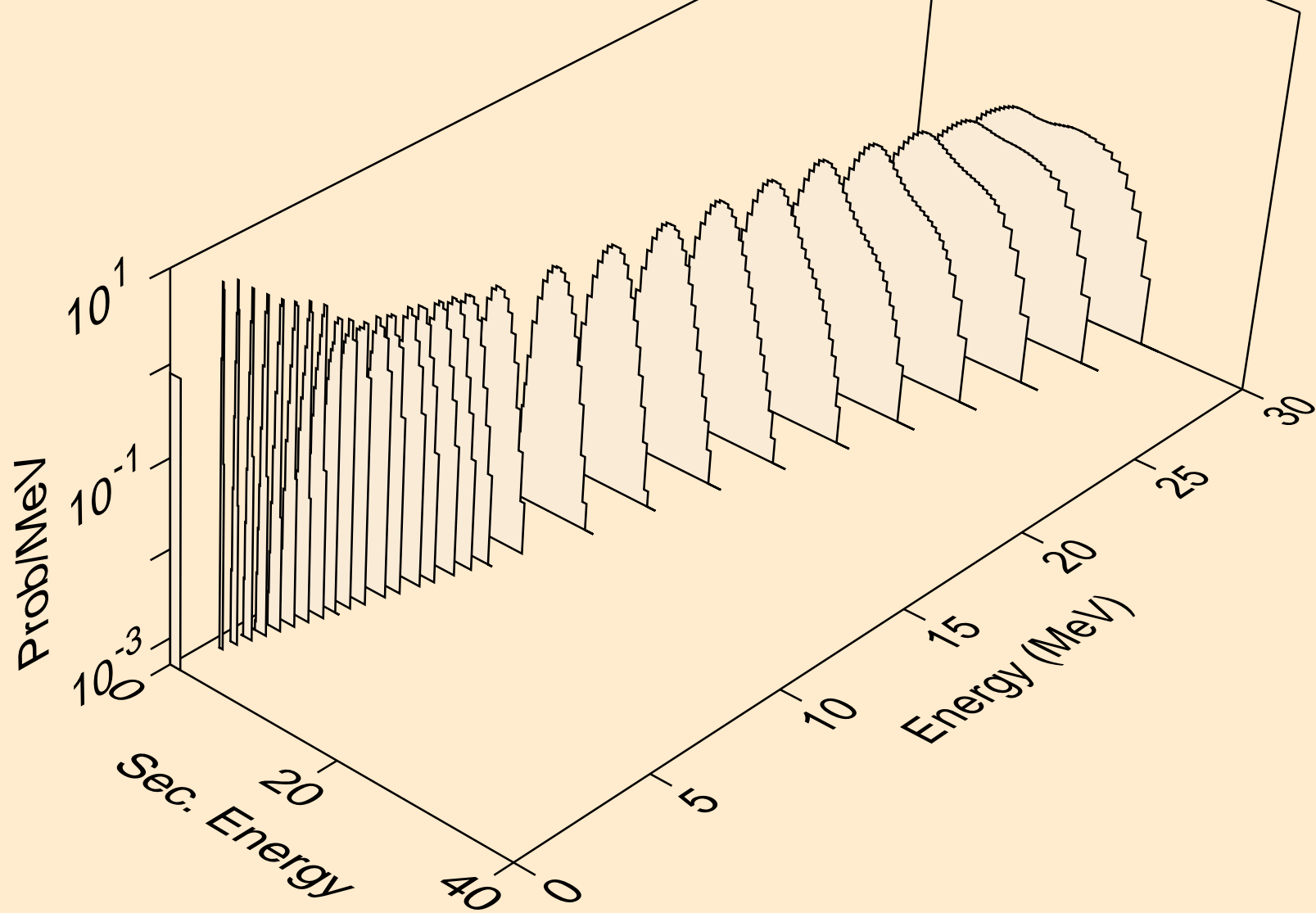
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Particle production cross sections



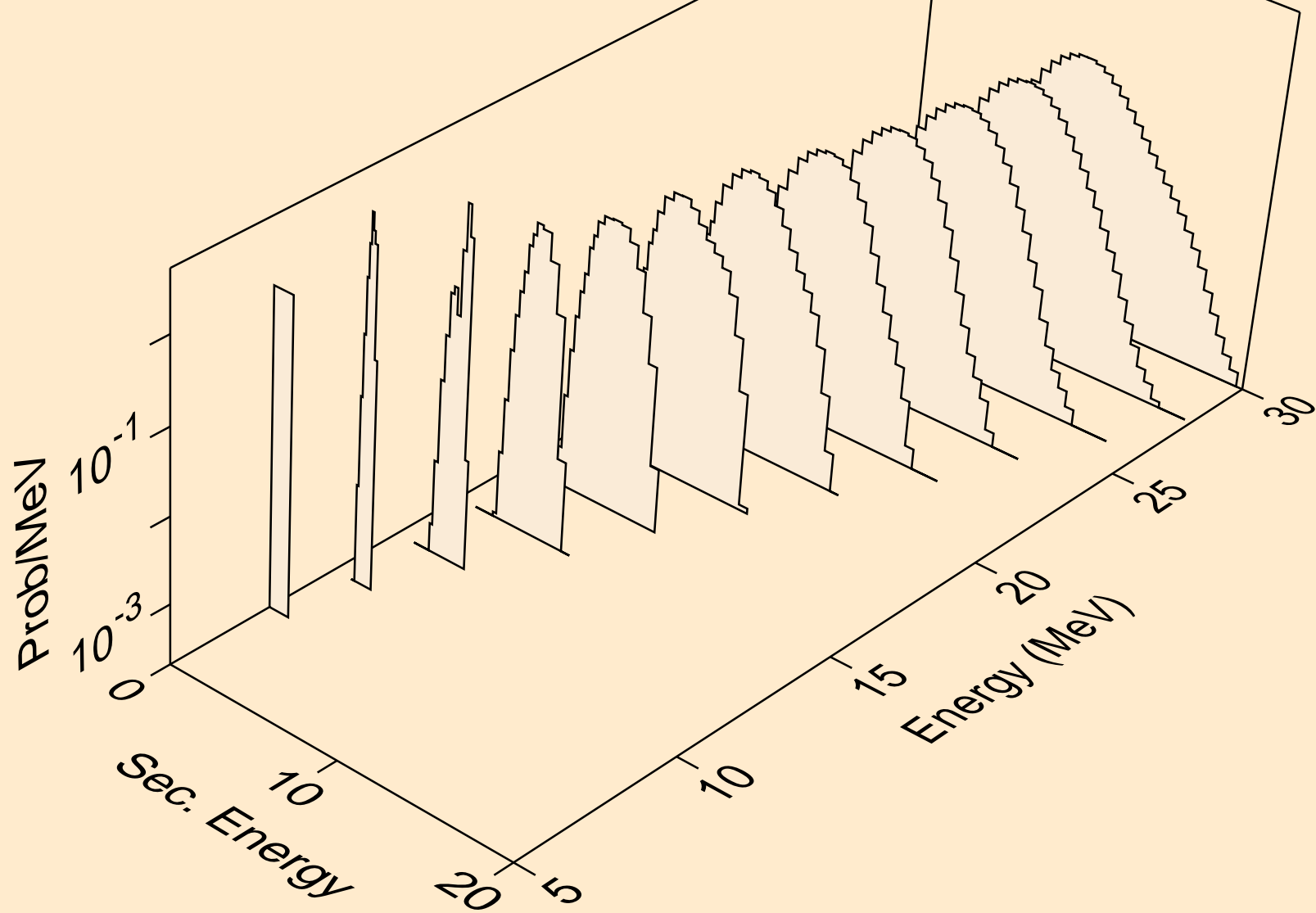
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)



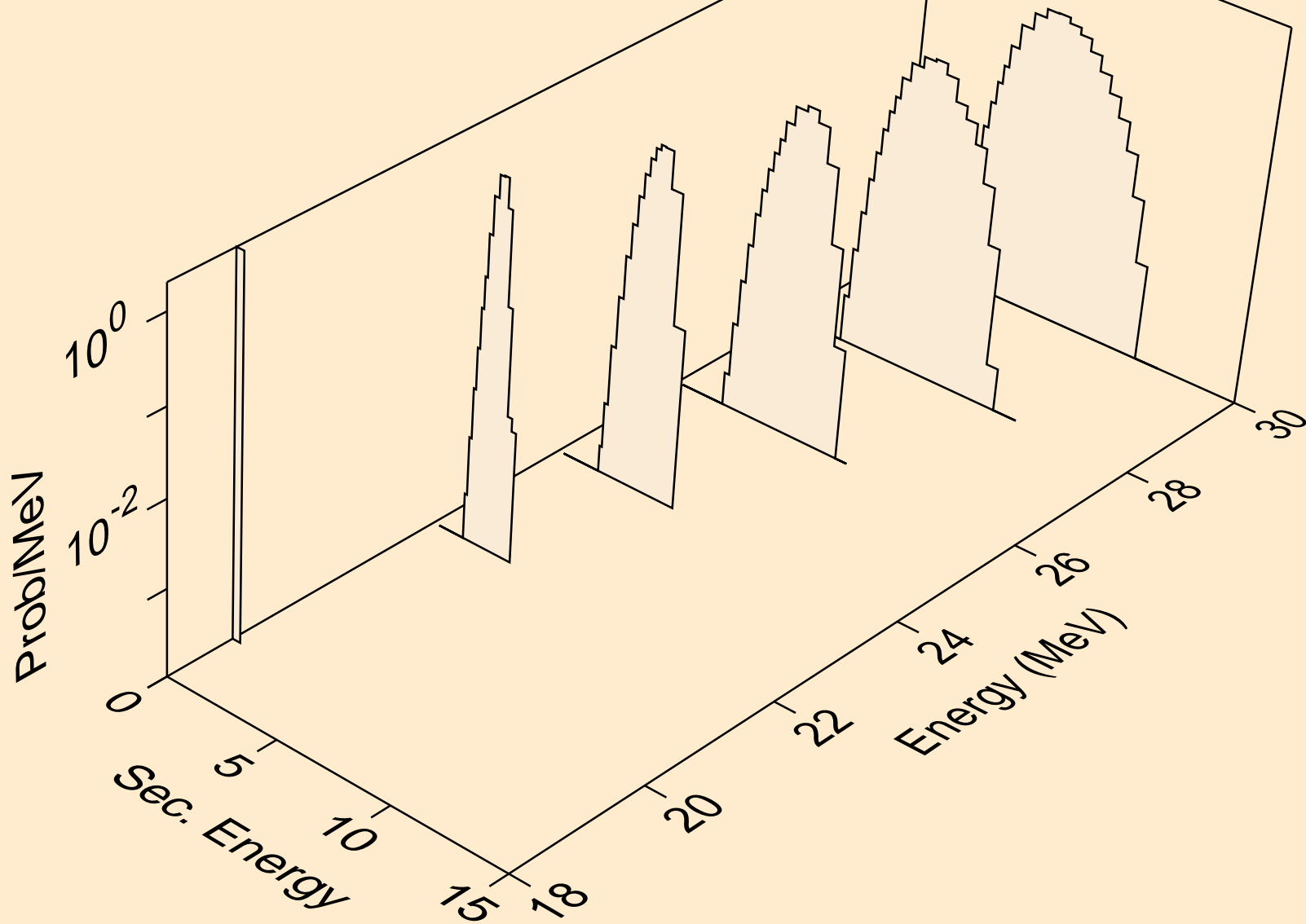
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n\*)p



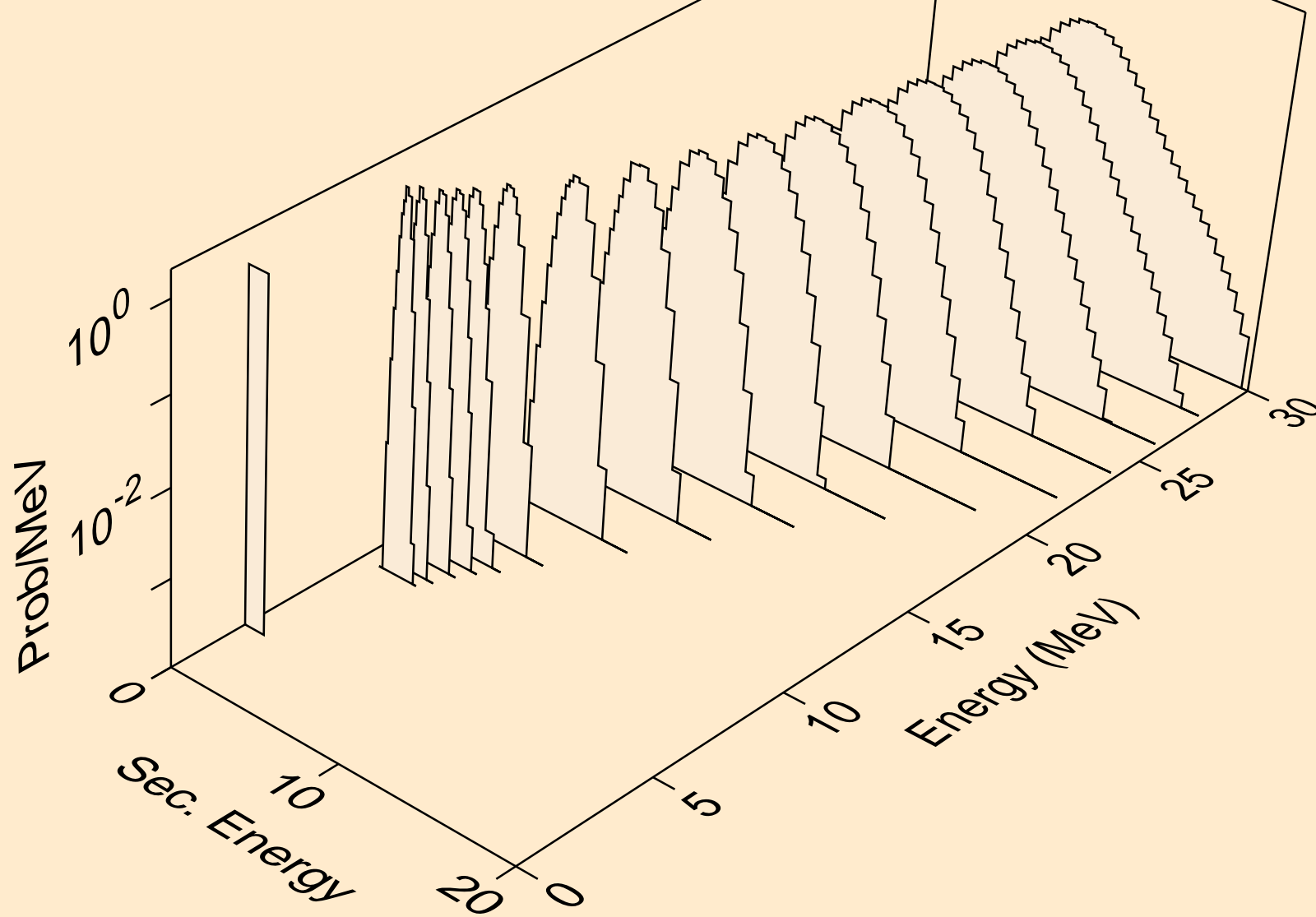
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,2np)



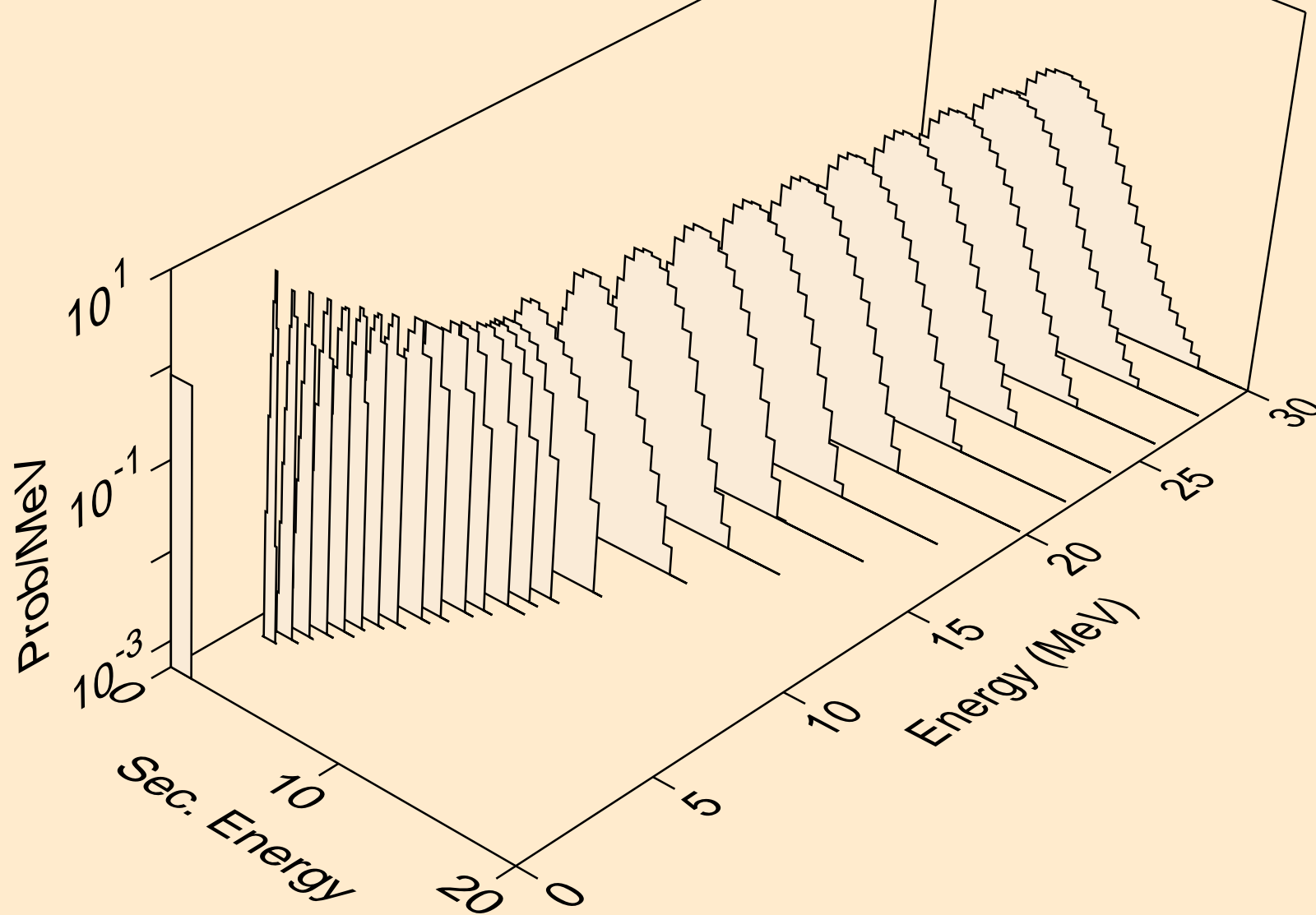
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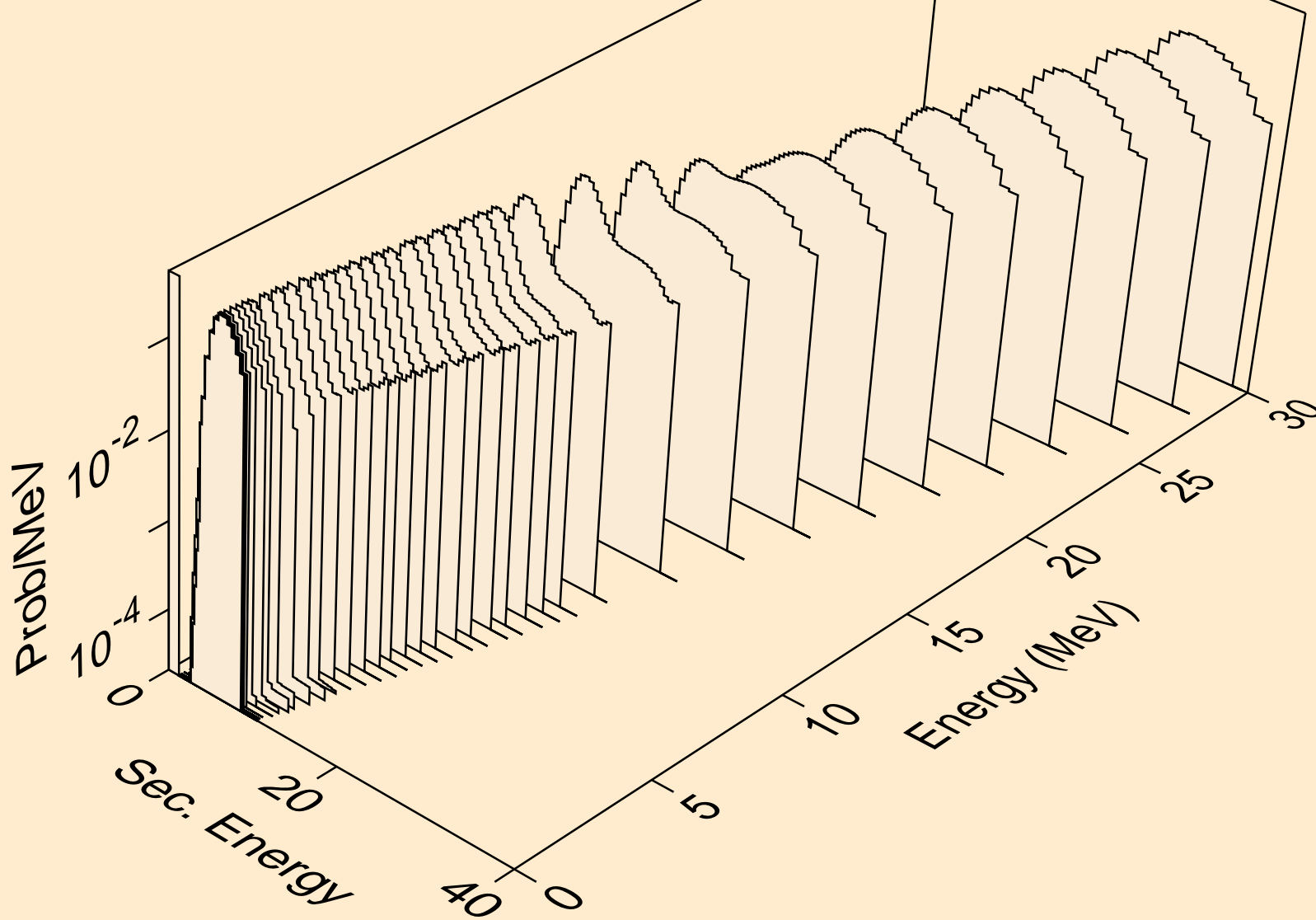
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protons from (n,n2p)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
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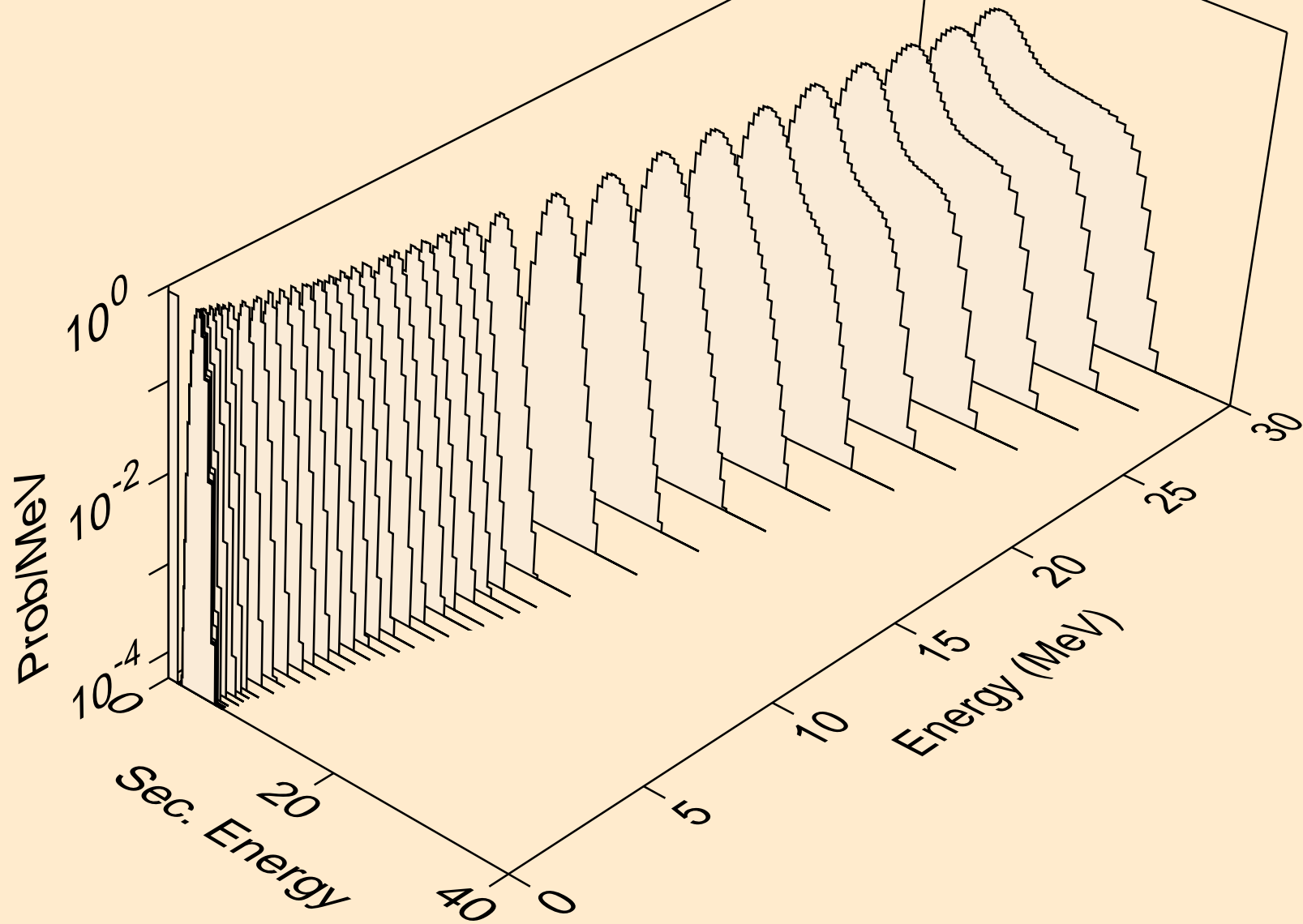


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protons from (n,p)

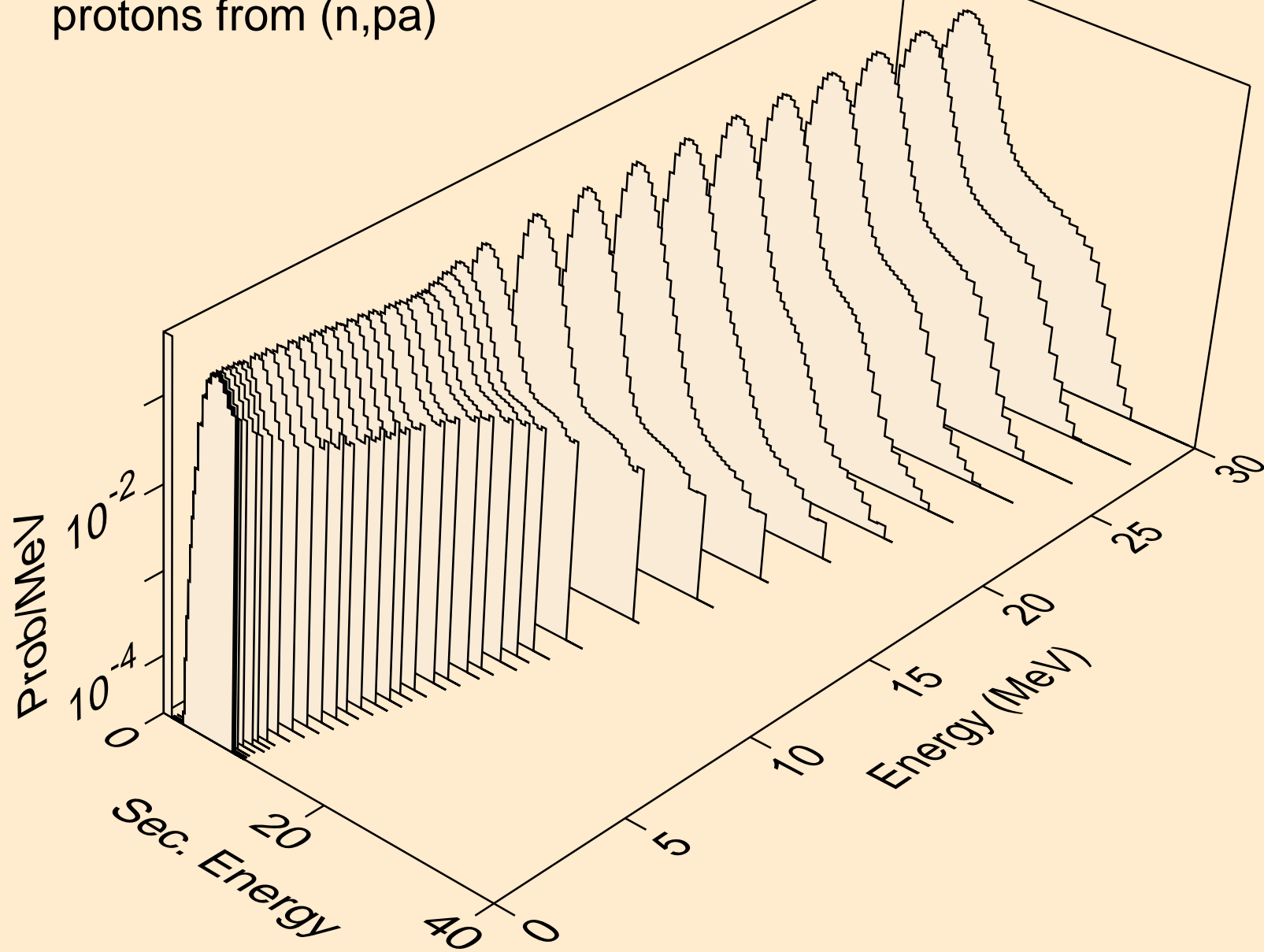




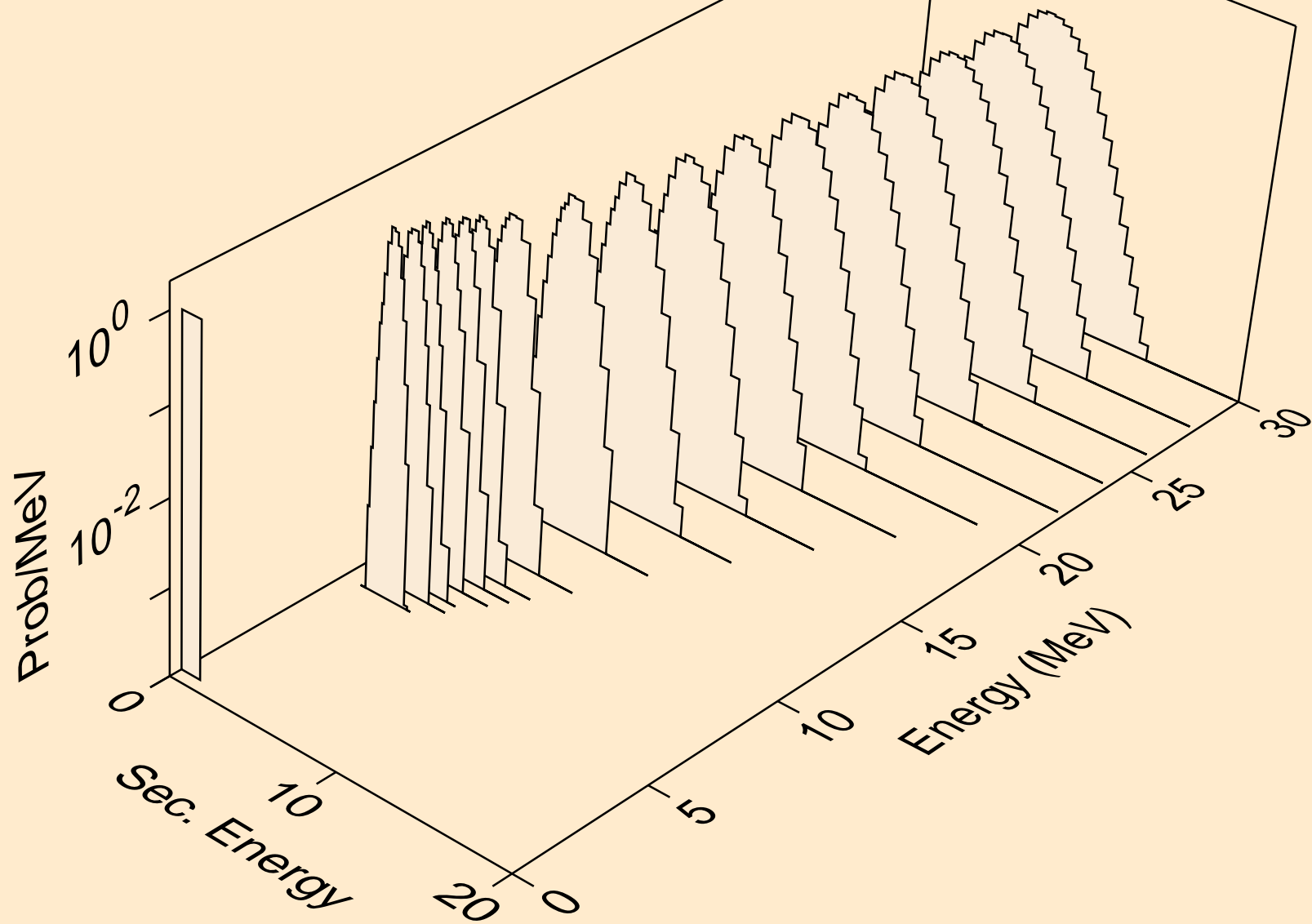
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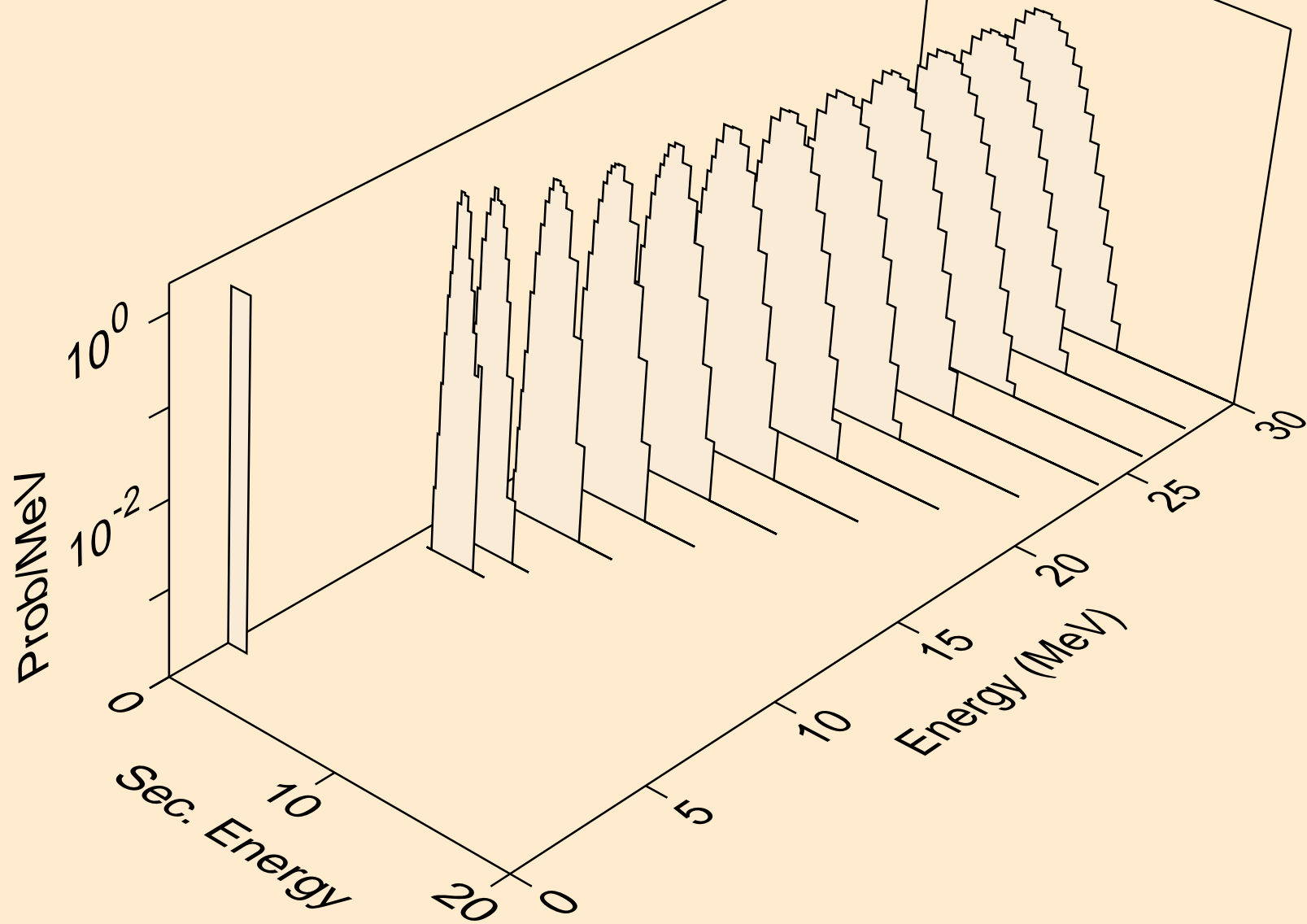
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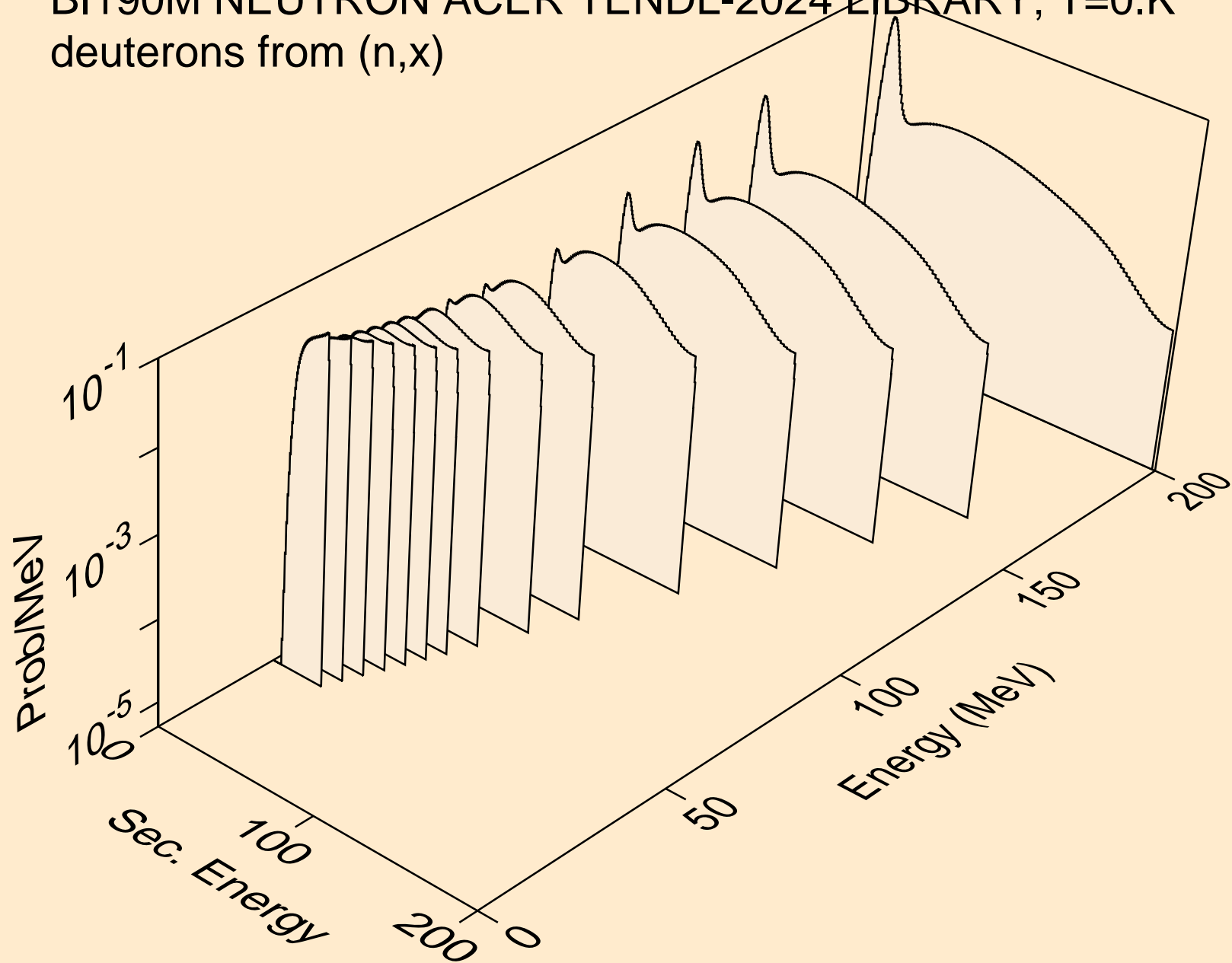
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protons from (n,pd)



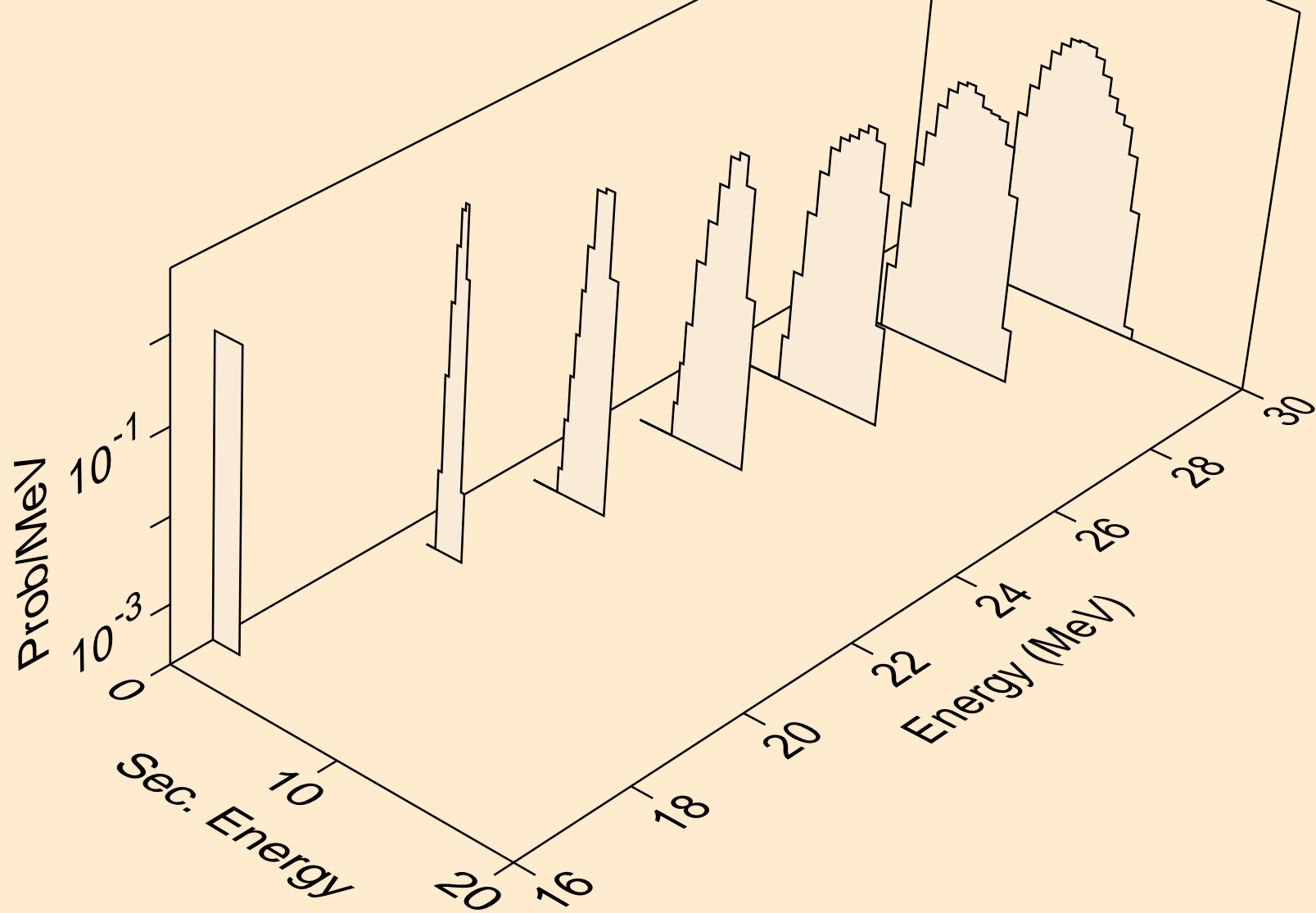
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protons from (n,pt)



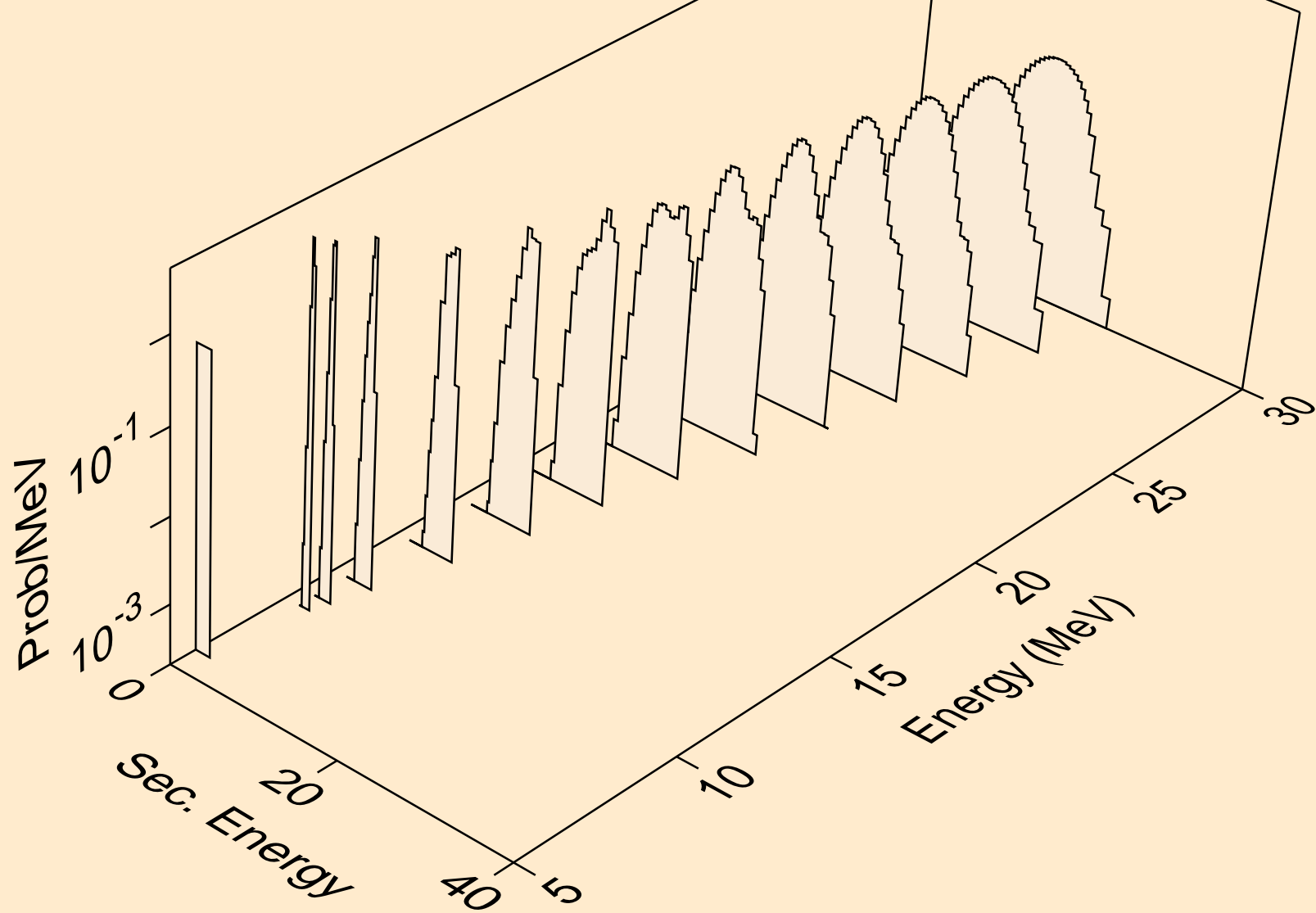
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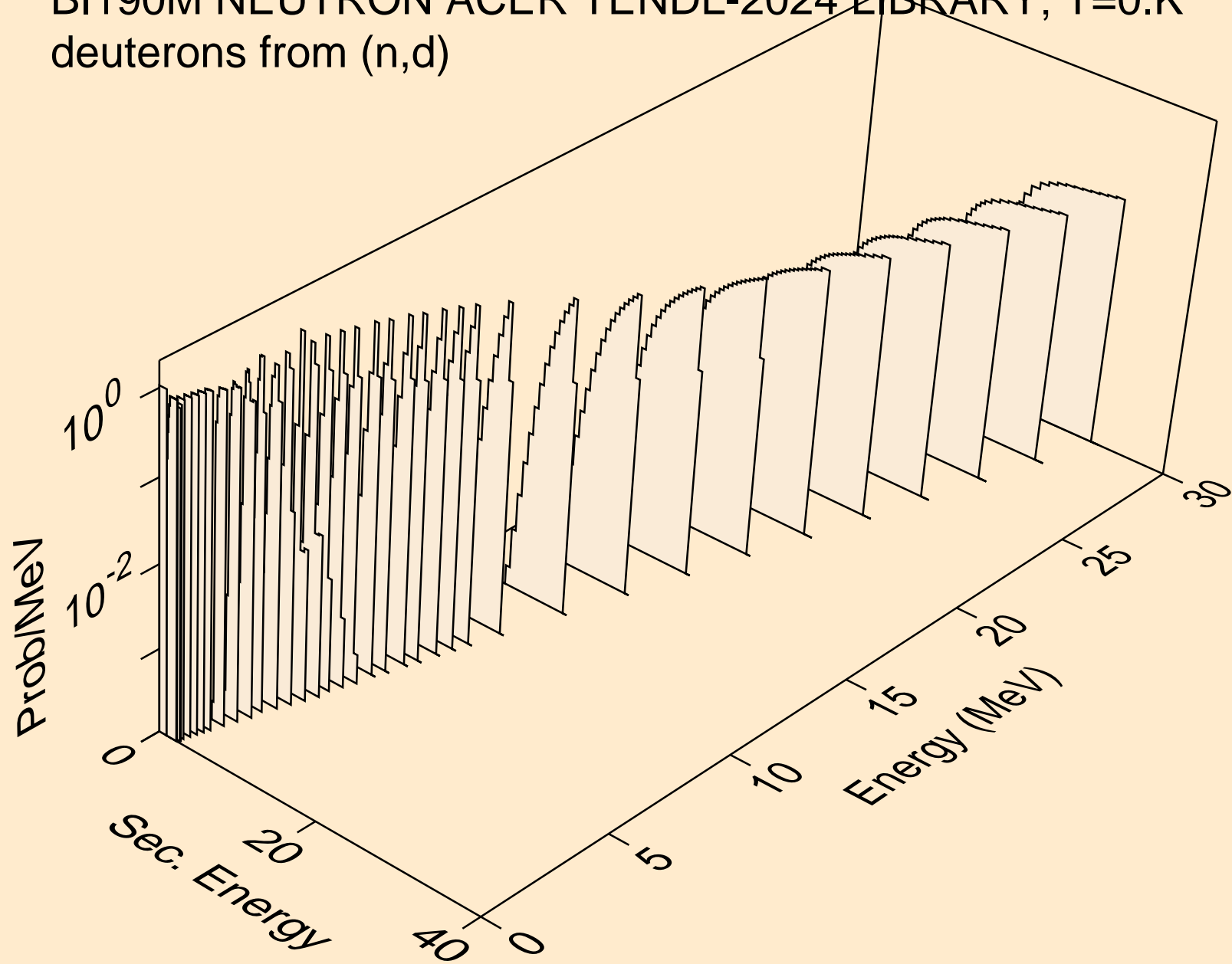
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,2nd)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,n\*)d

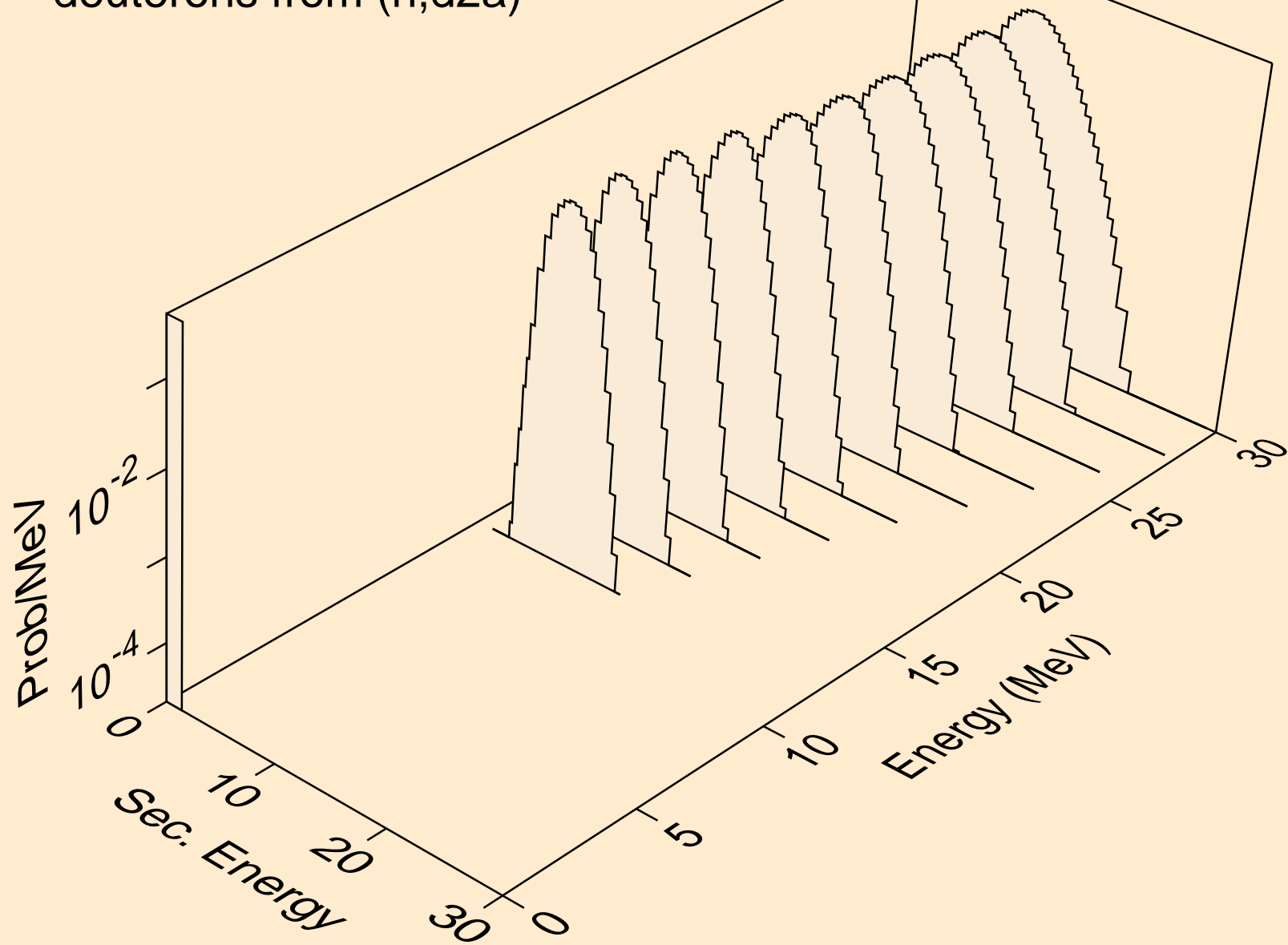


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deuterons from (n,d)

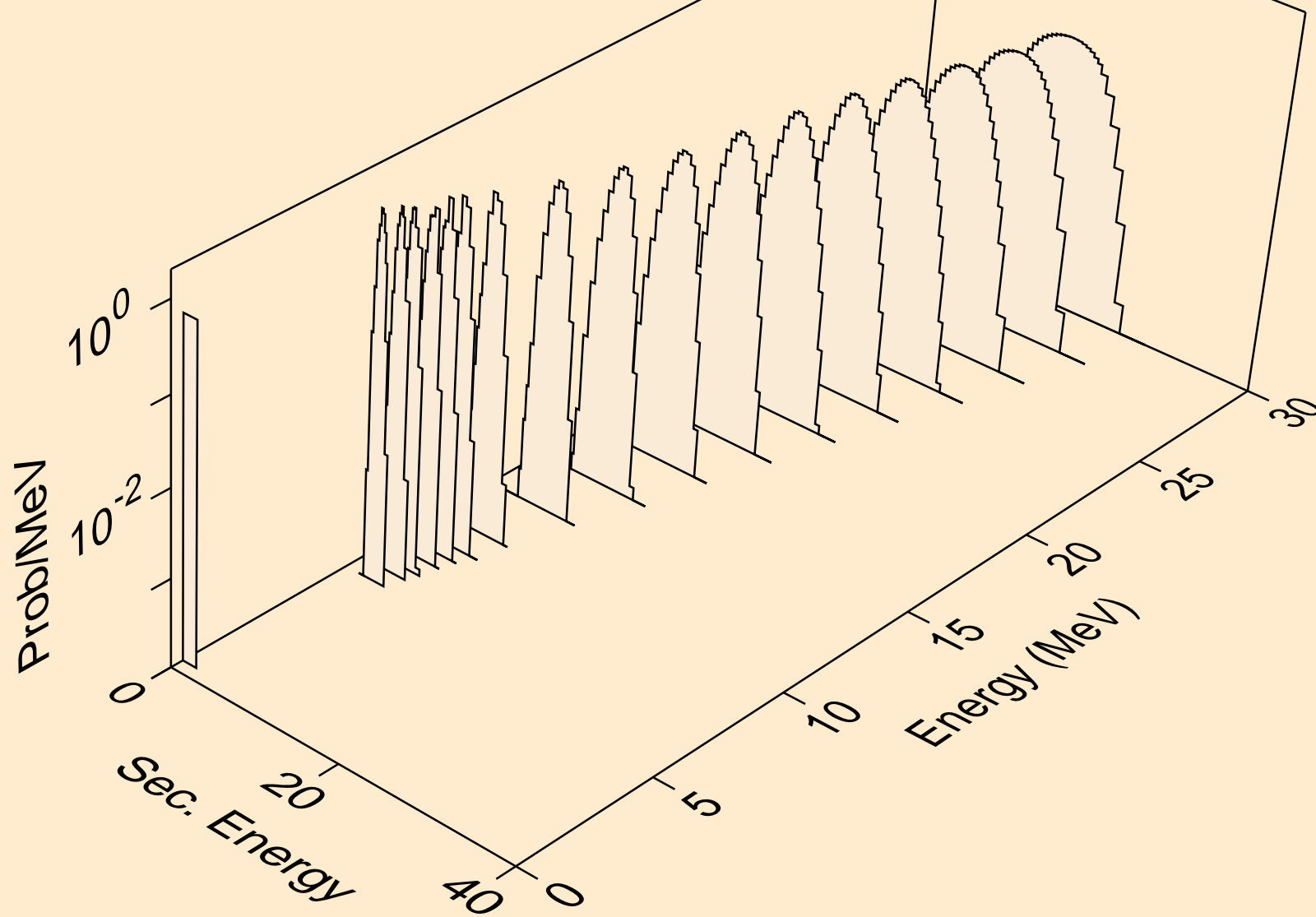




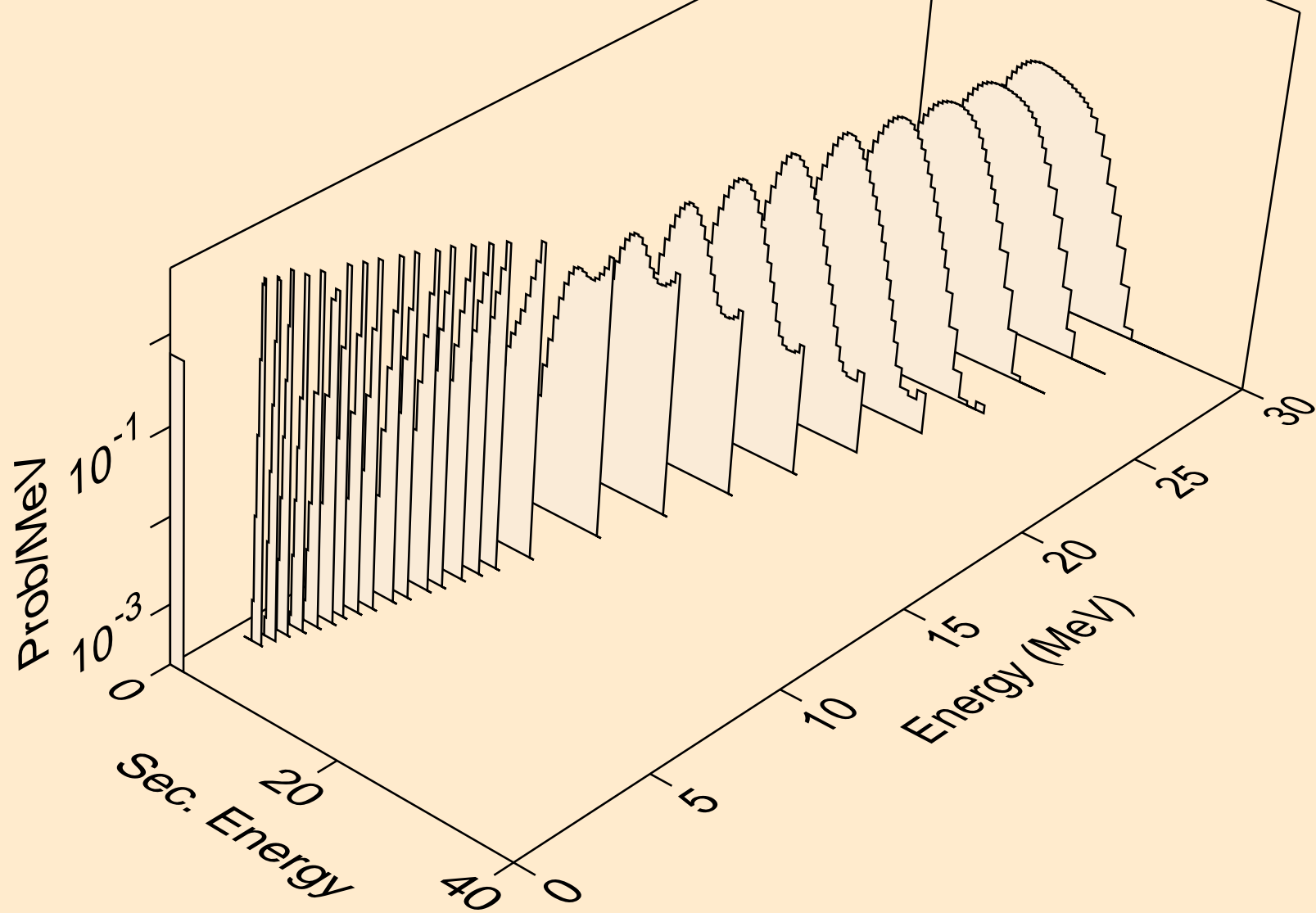
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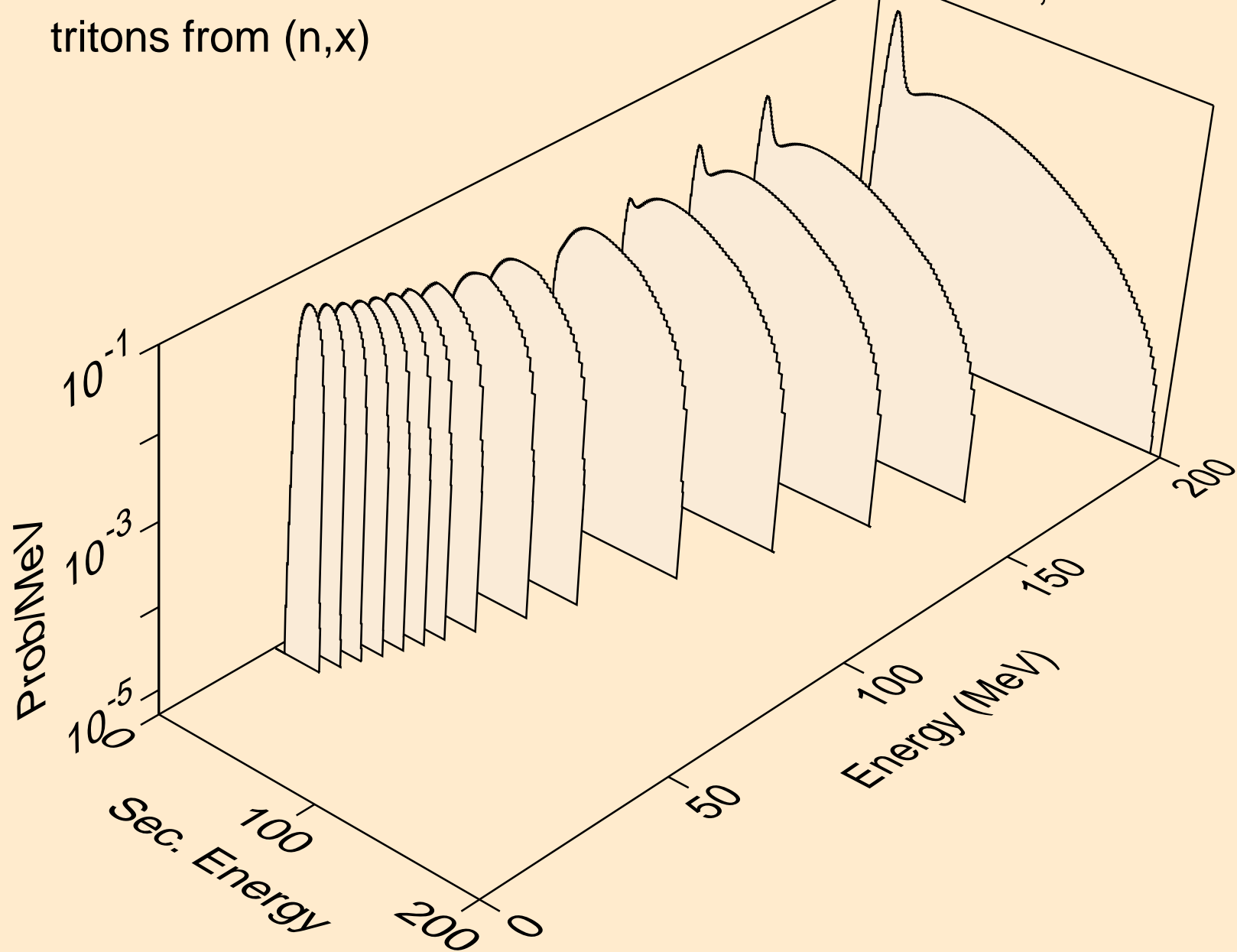
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deuterons from (n,pd)



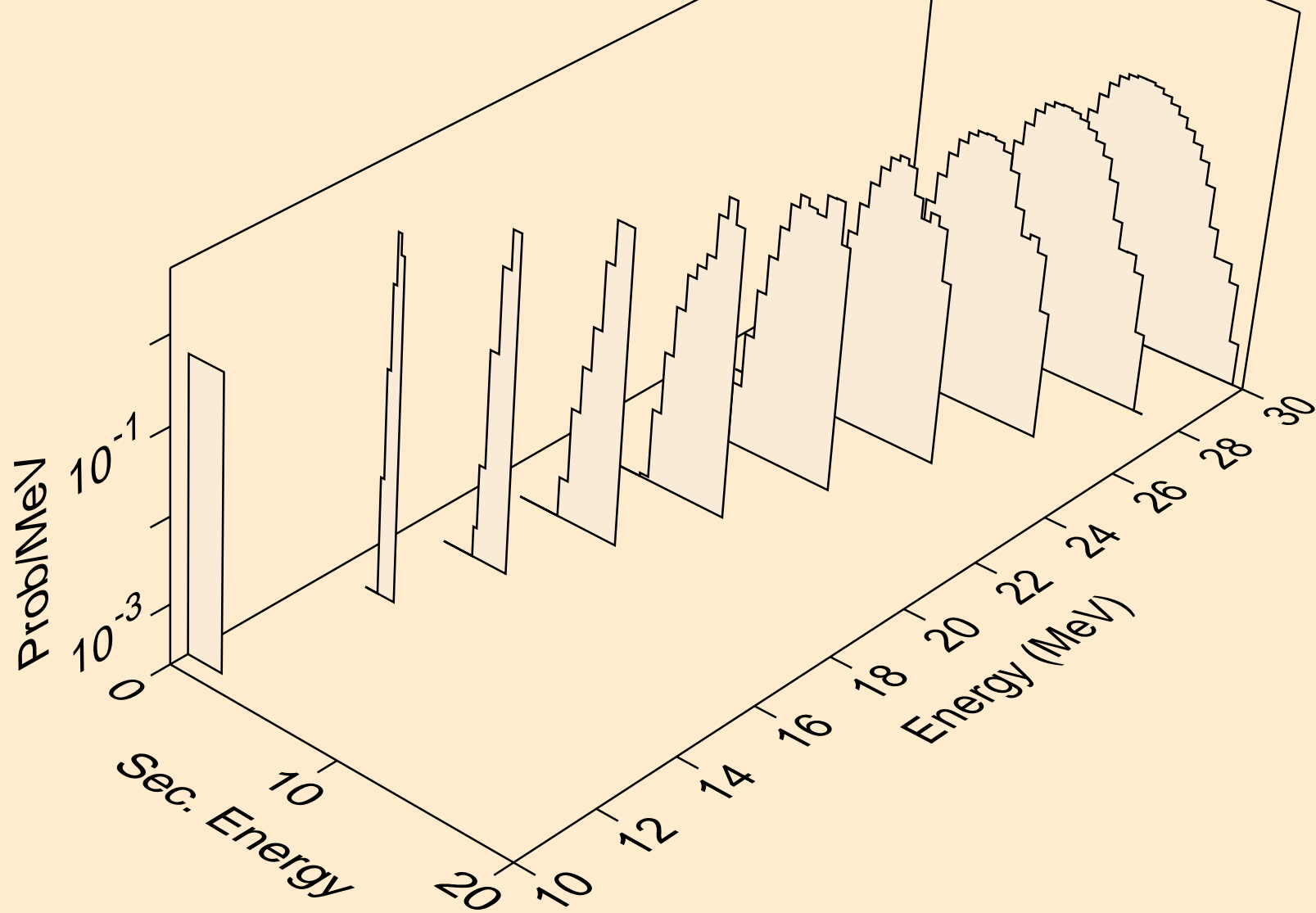
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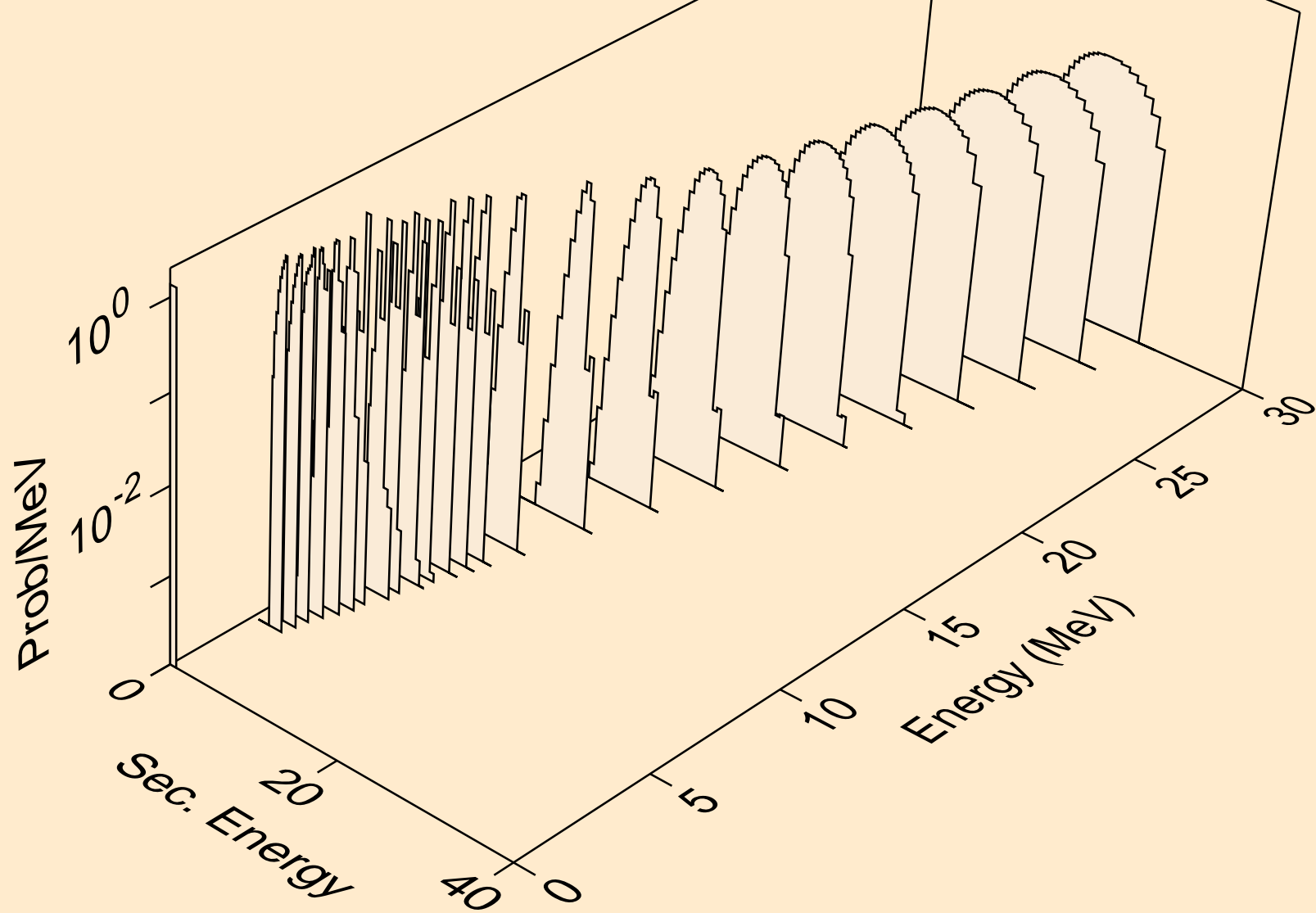
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tritons from (n,x)



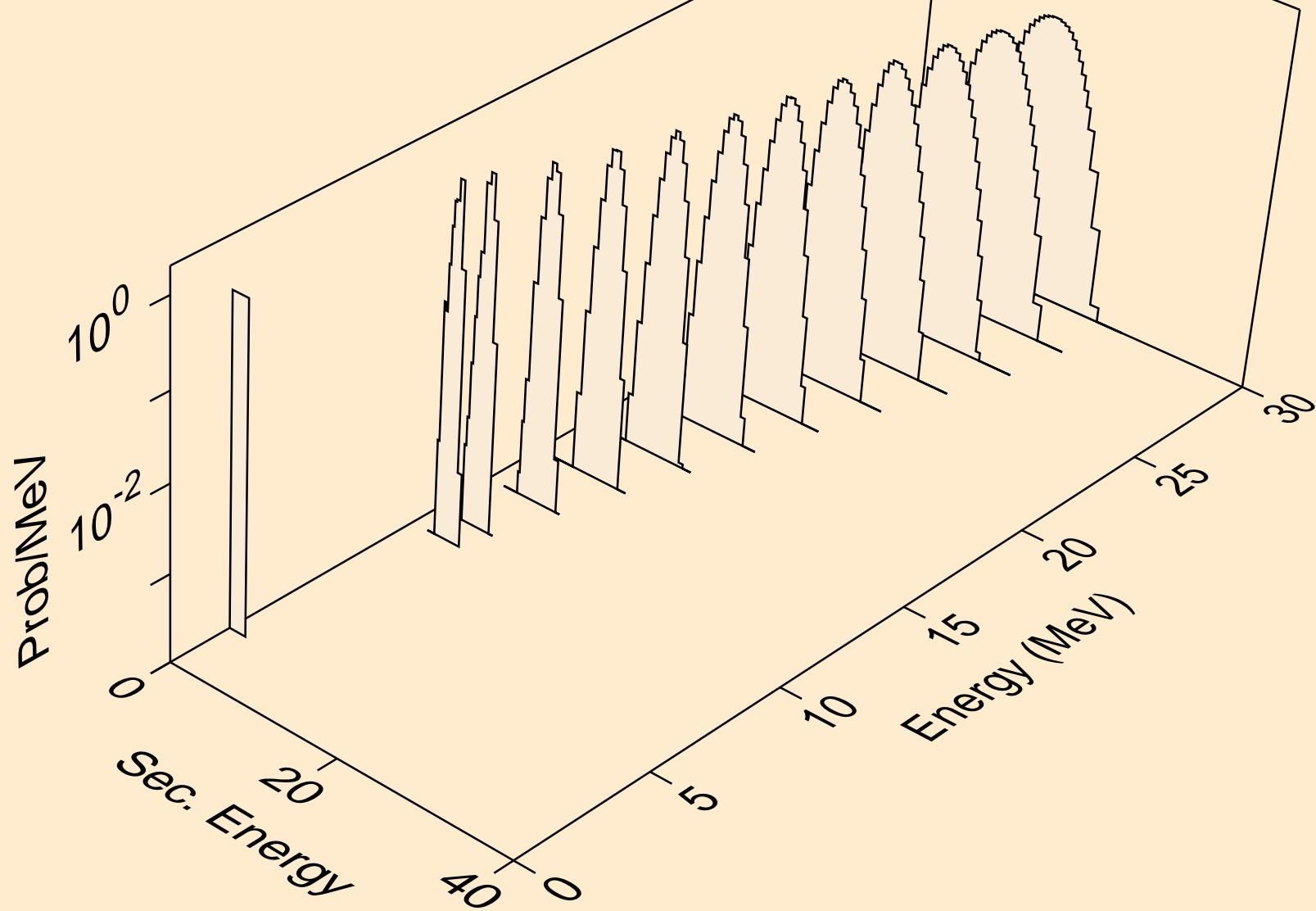
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,n\*)t



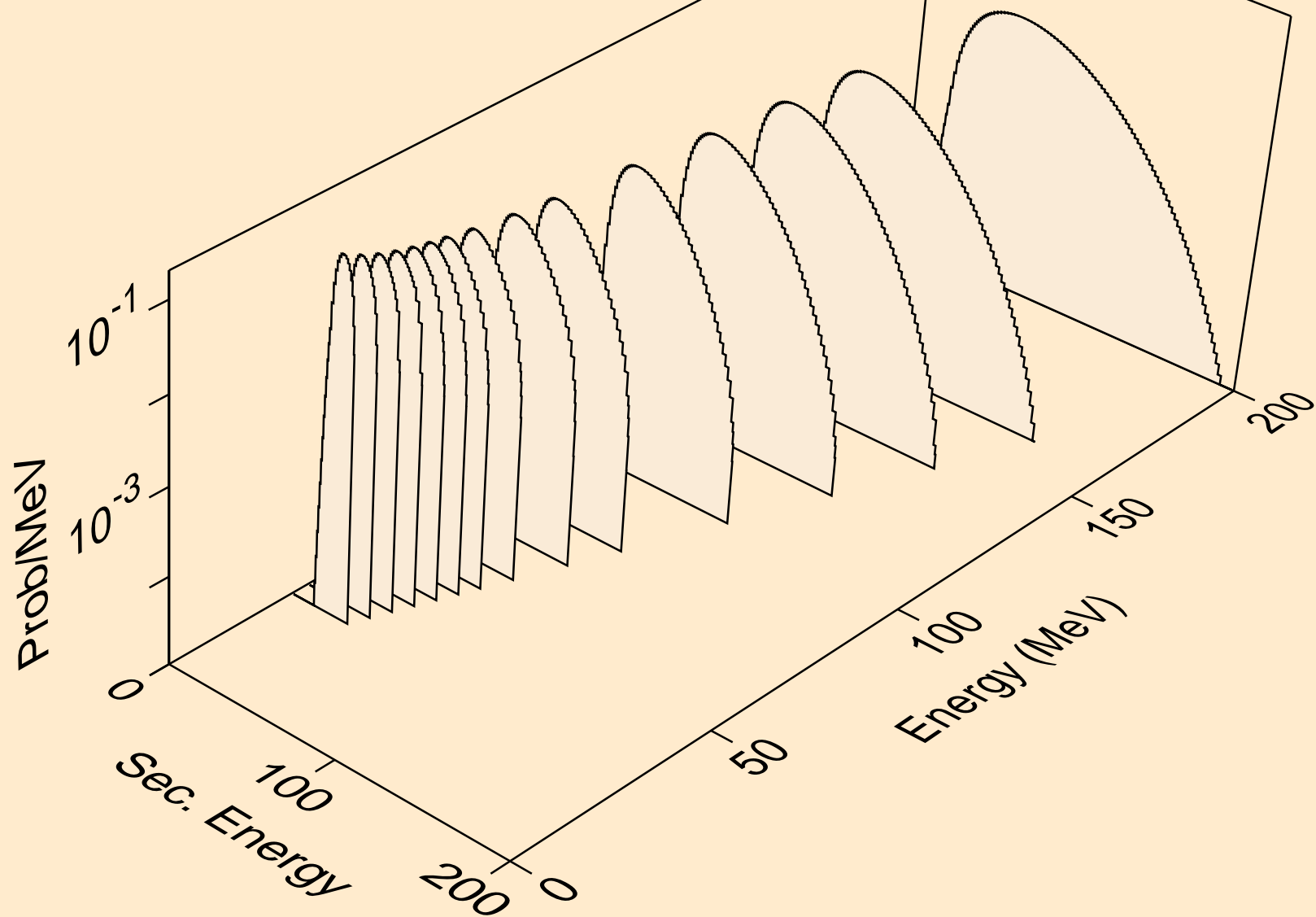
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tritons from (n,t)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,pt)

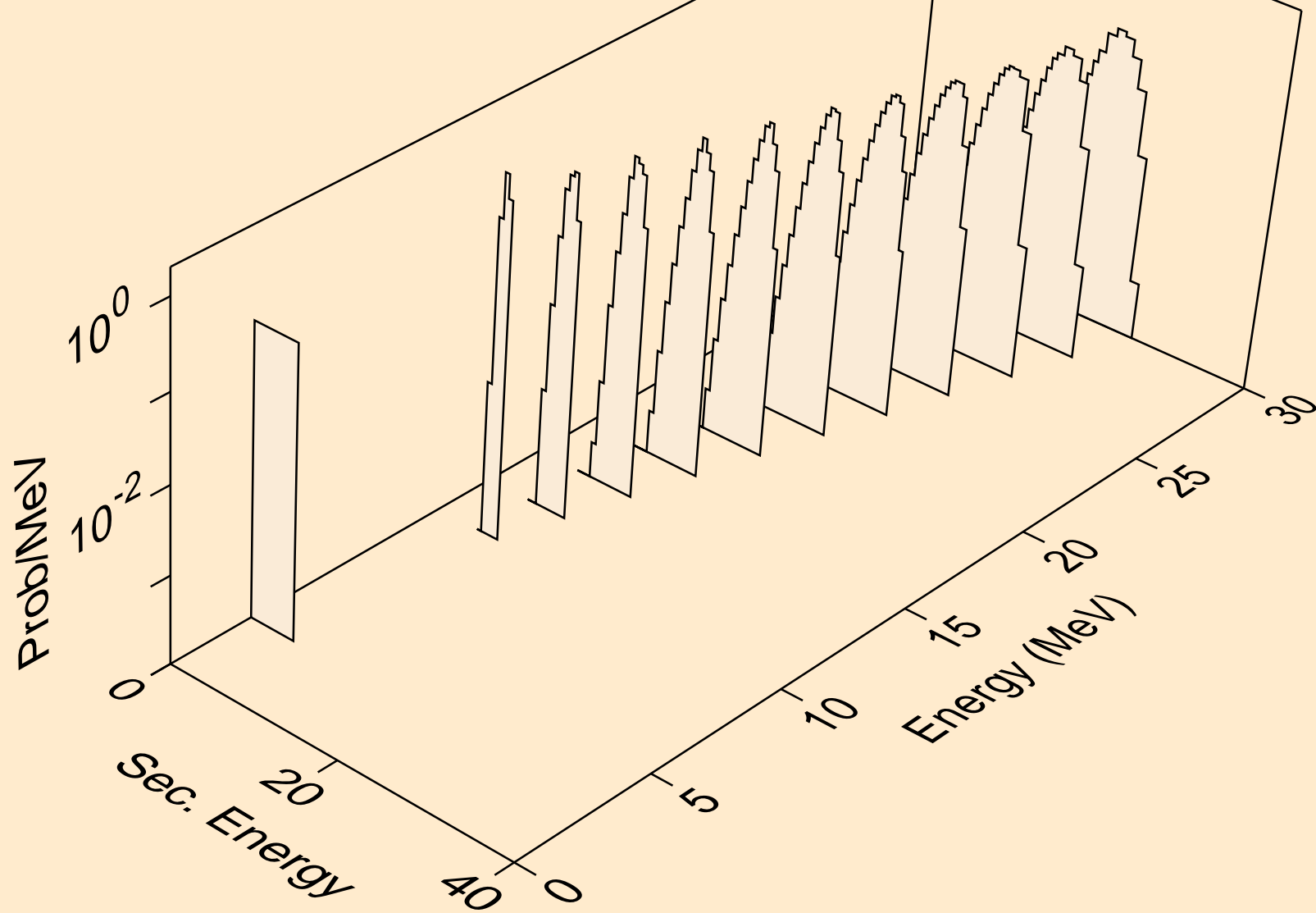


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he3s from (n,x)

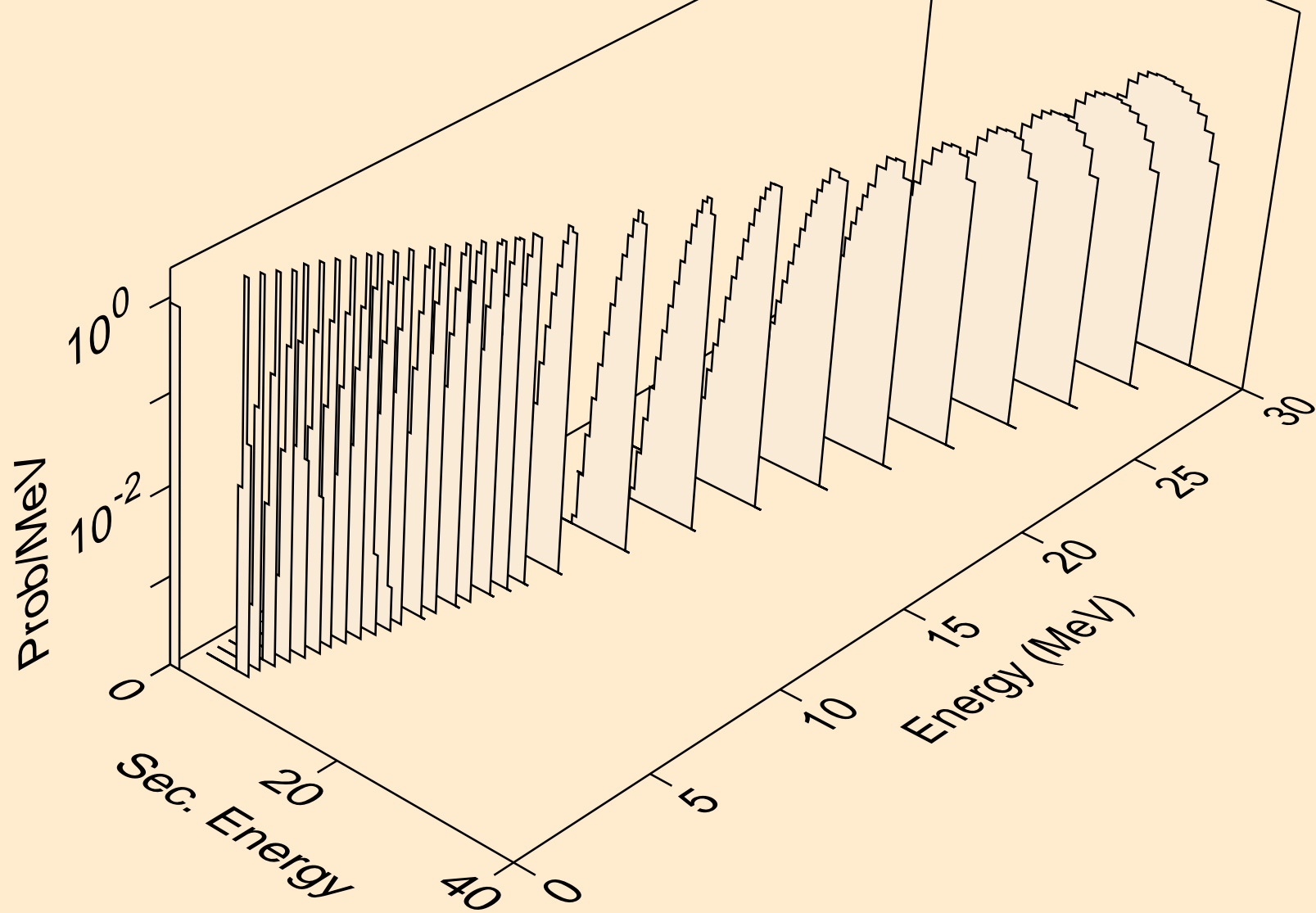




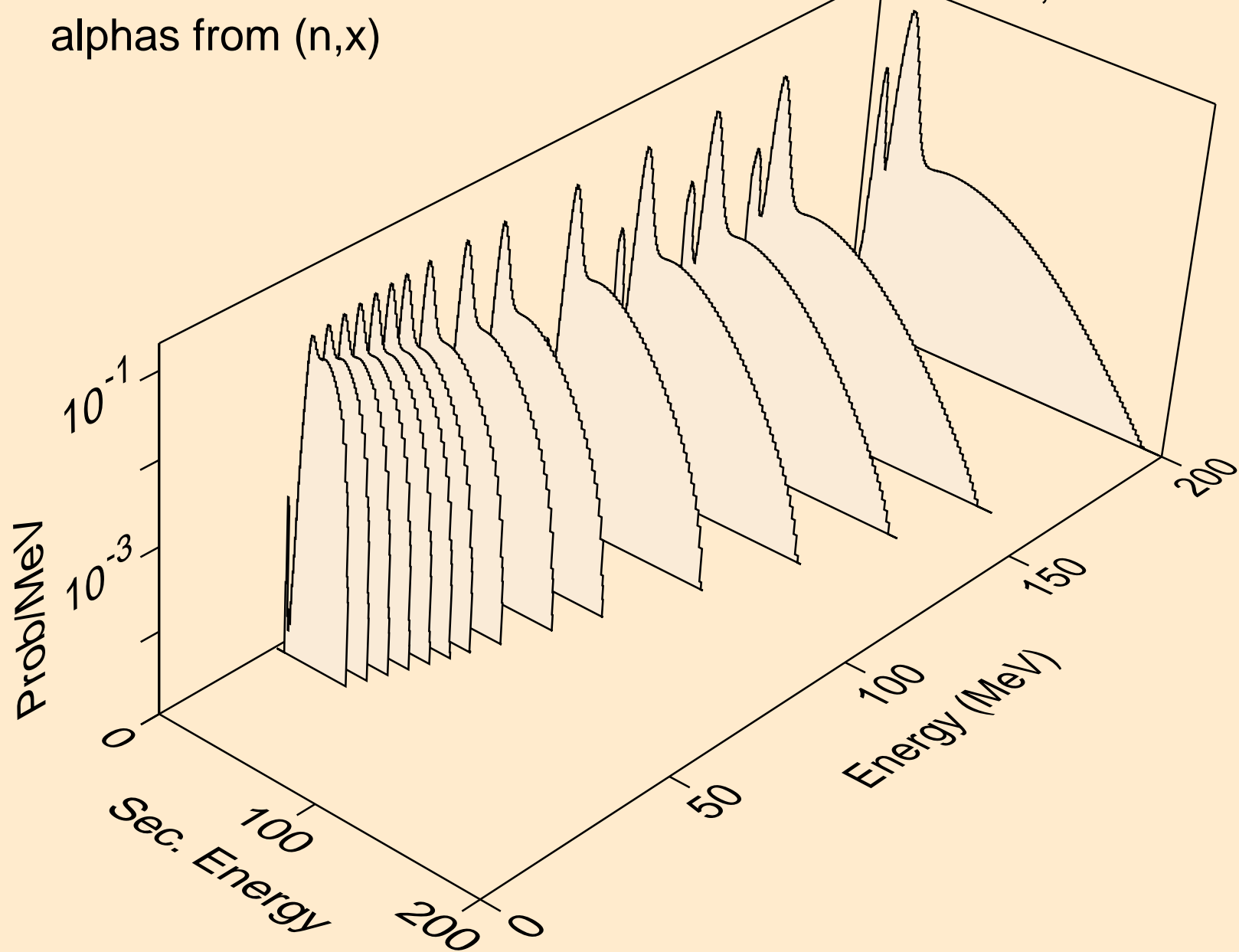
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he3s from (n,n\*)he3



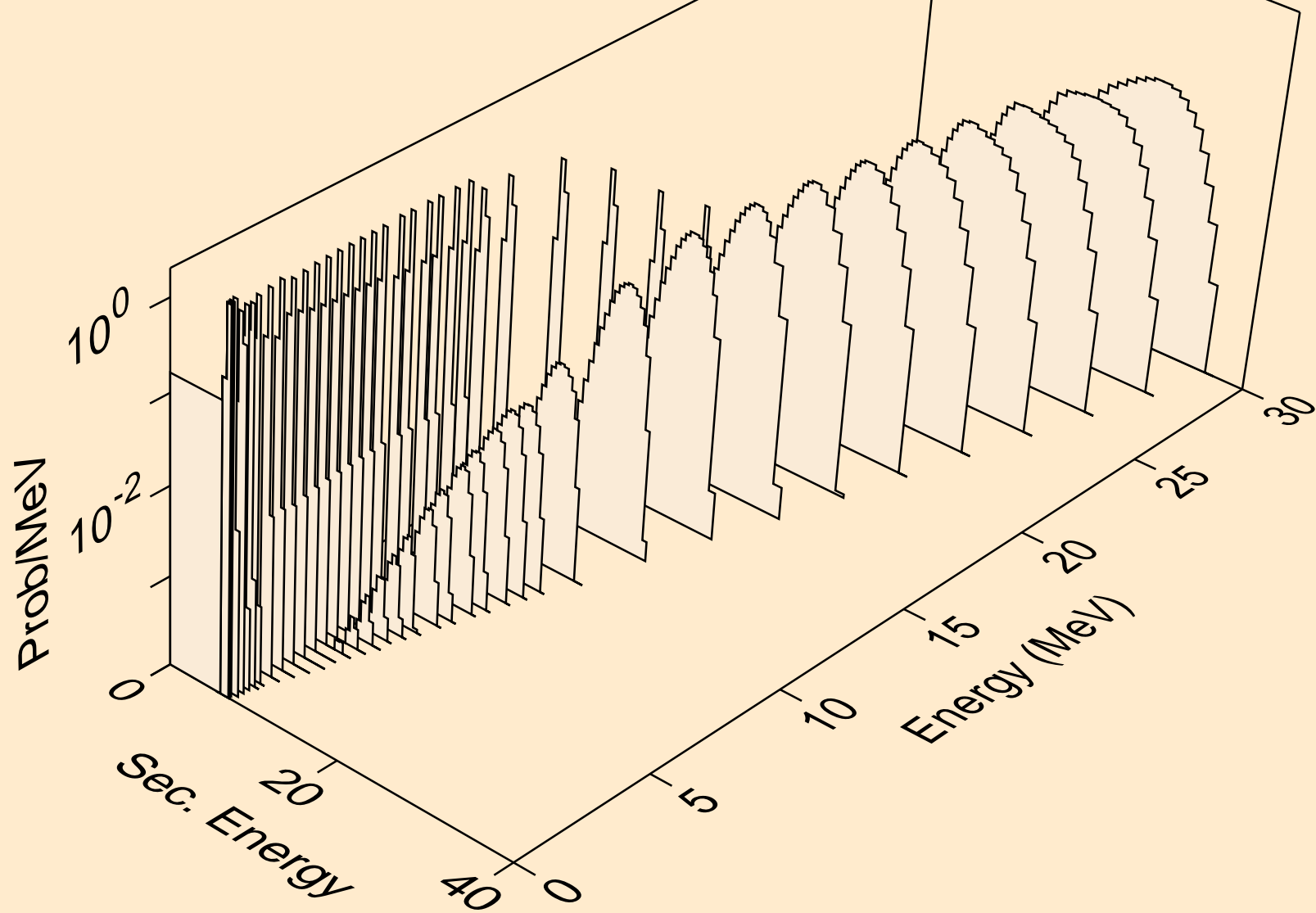
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he3s from (n,he3)



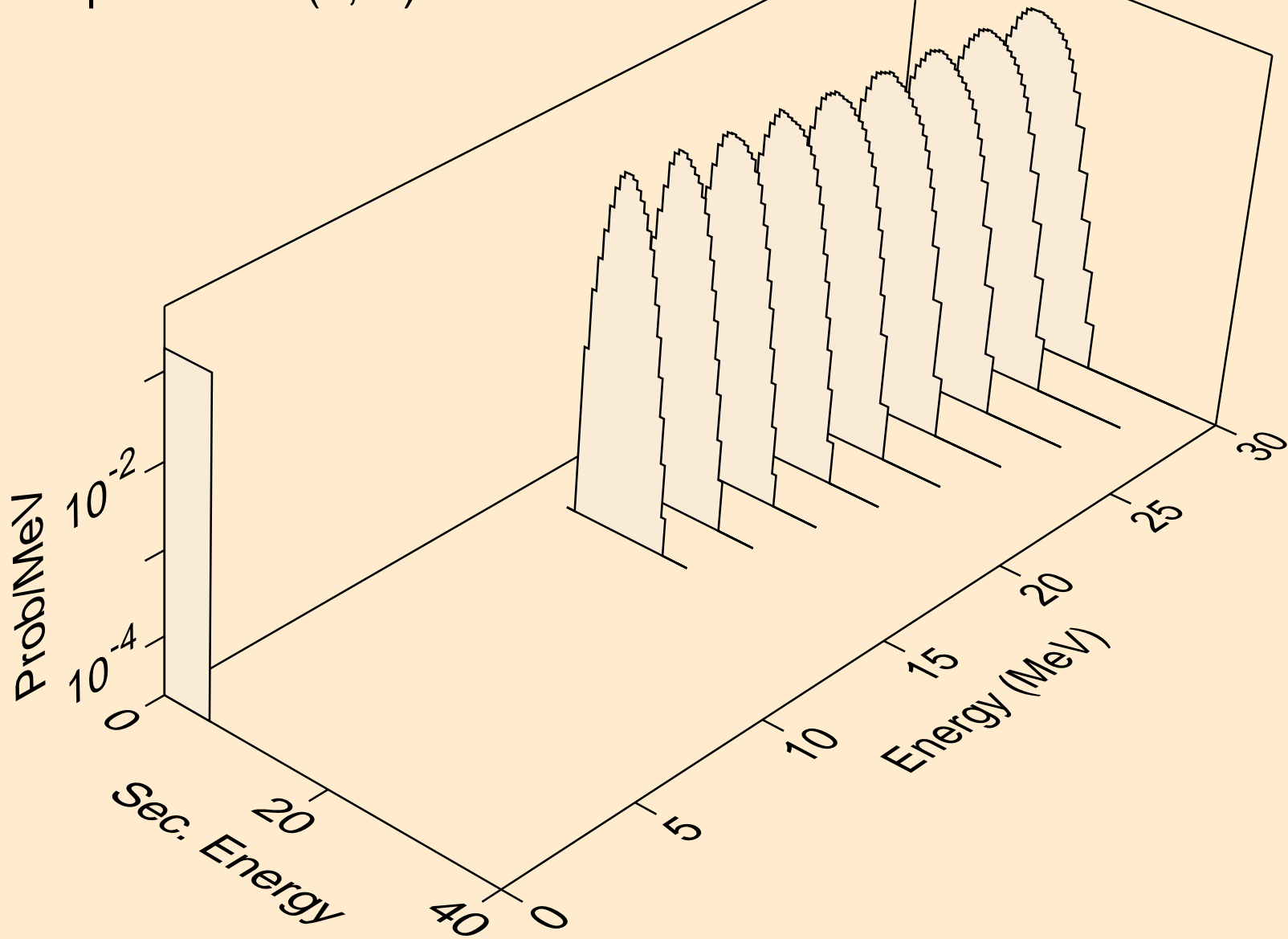
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)



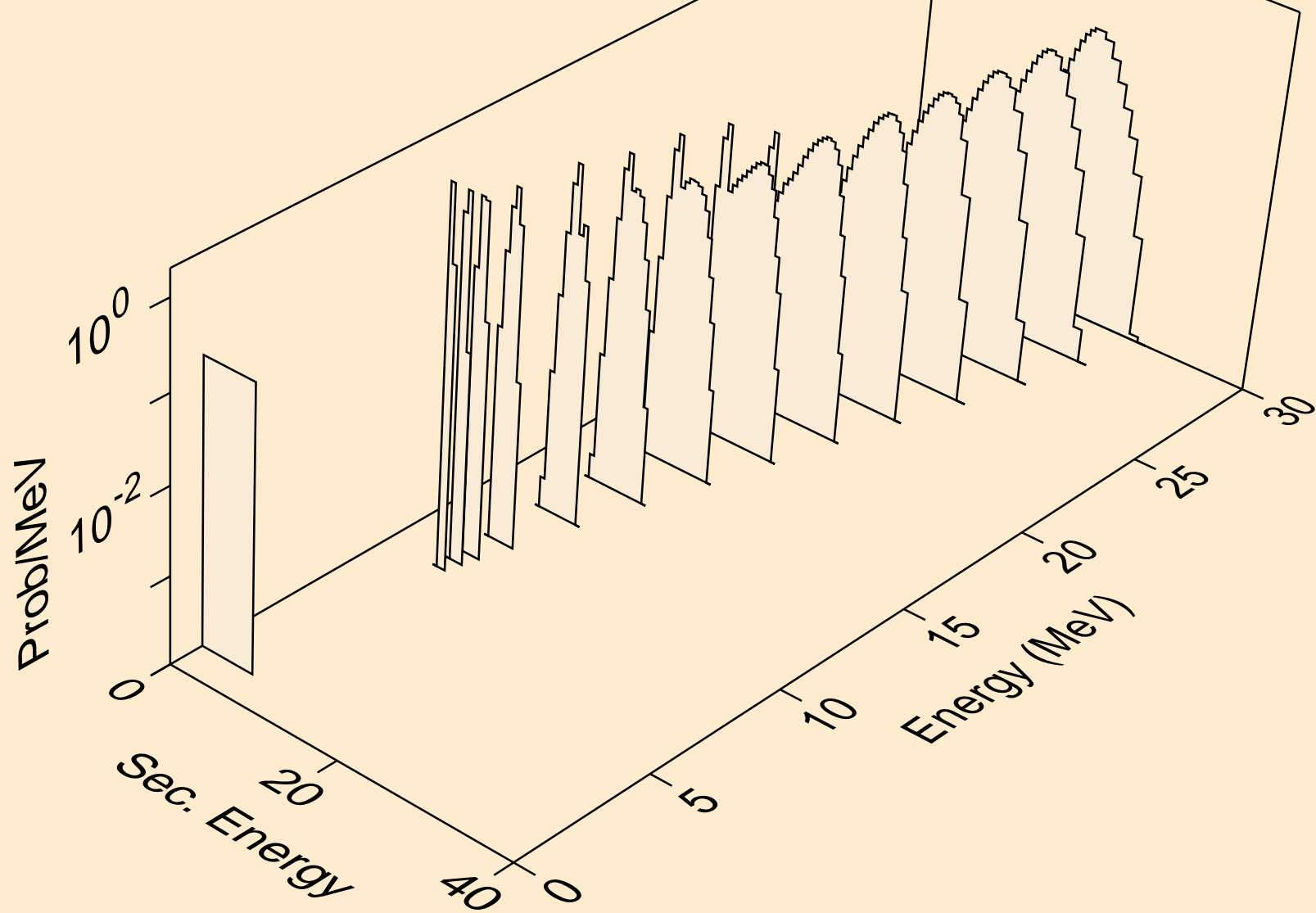
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



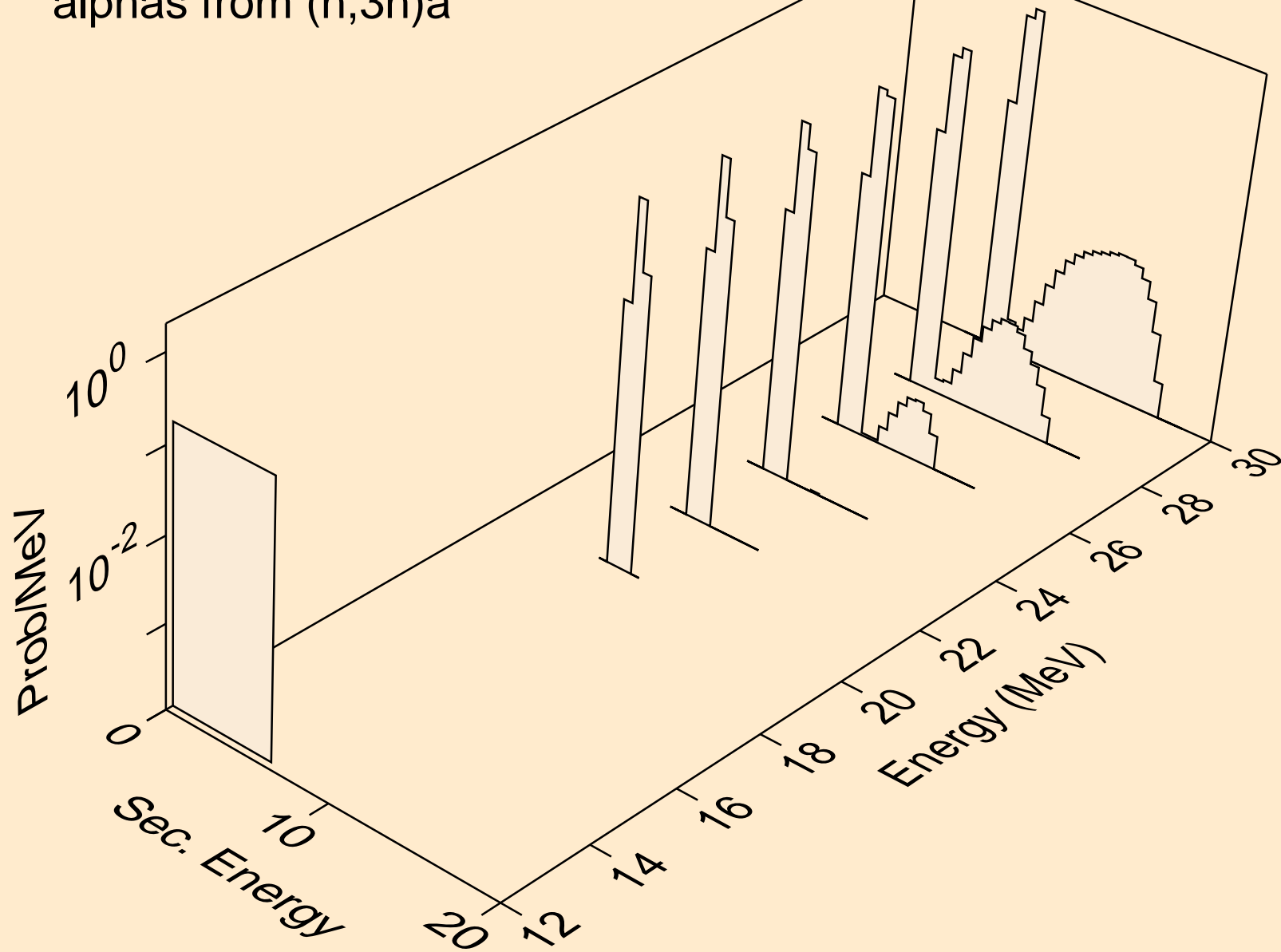
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alphas from (n,n\*)3a



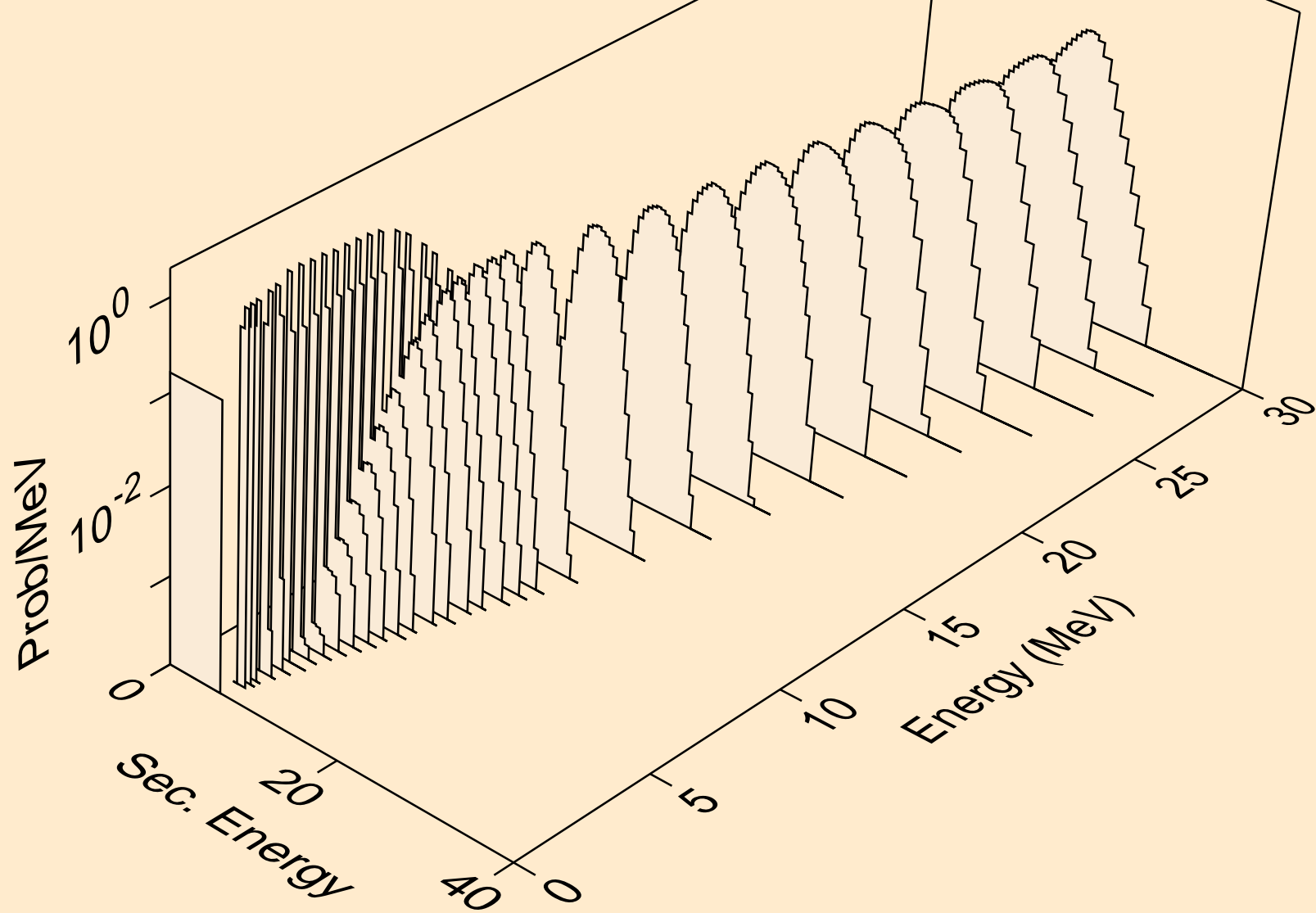
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3n)a

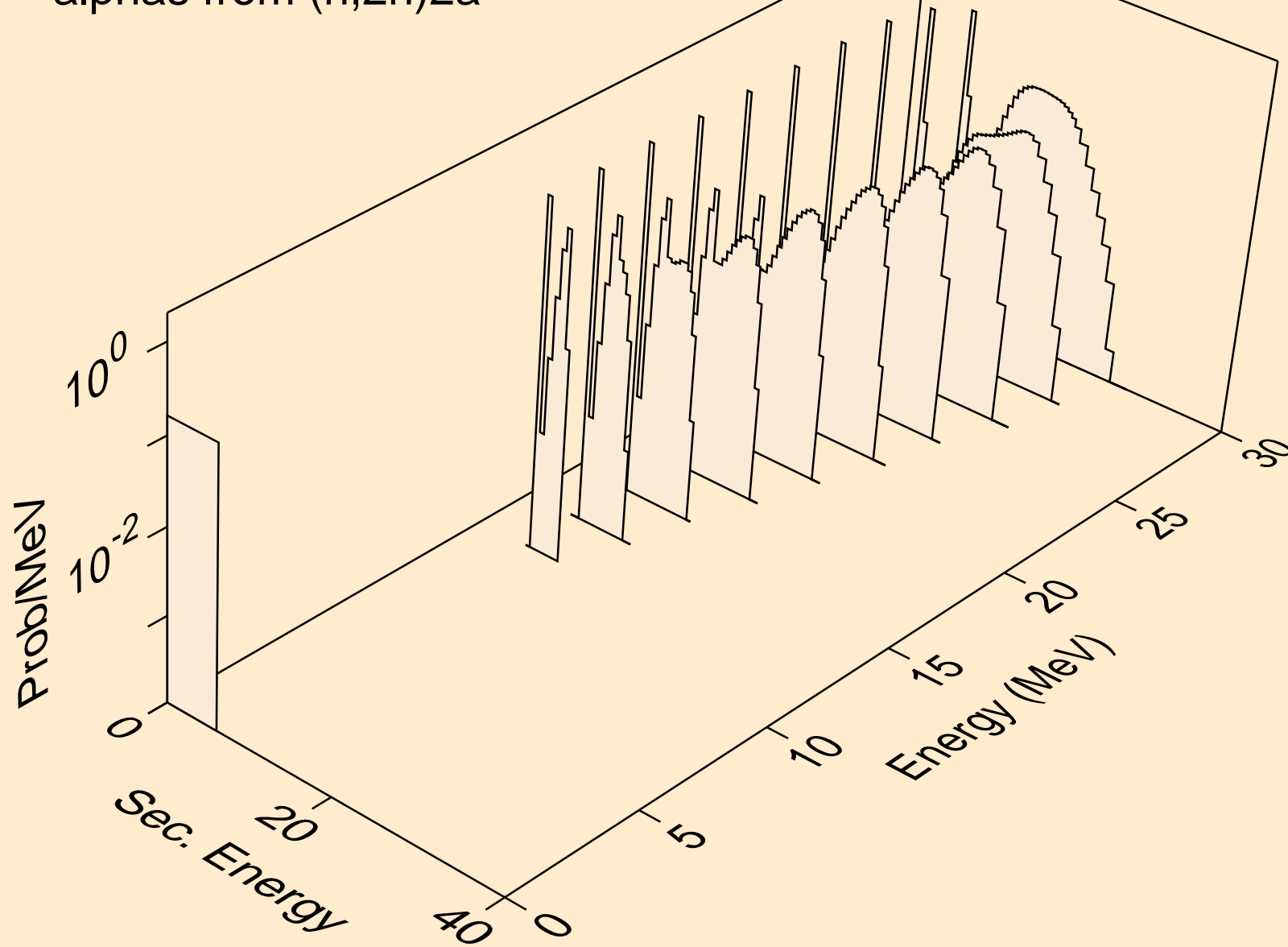


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alphas from (n,n\*)2a

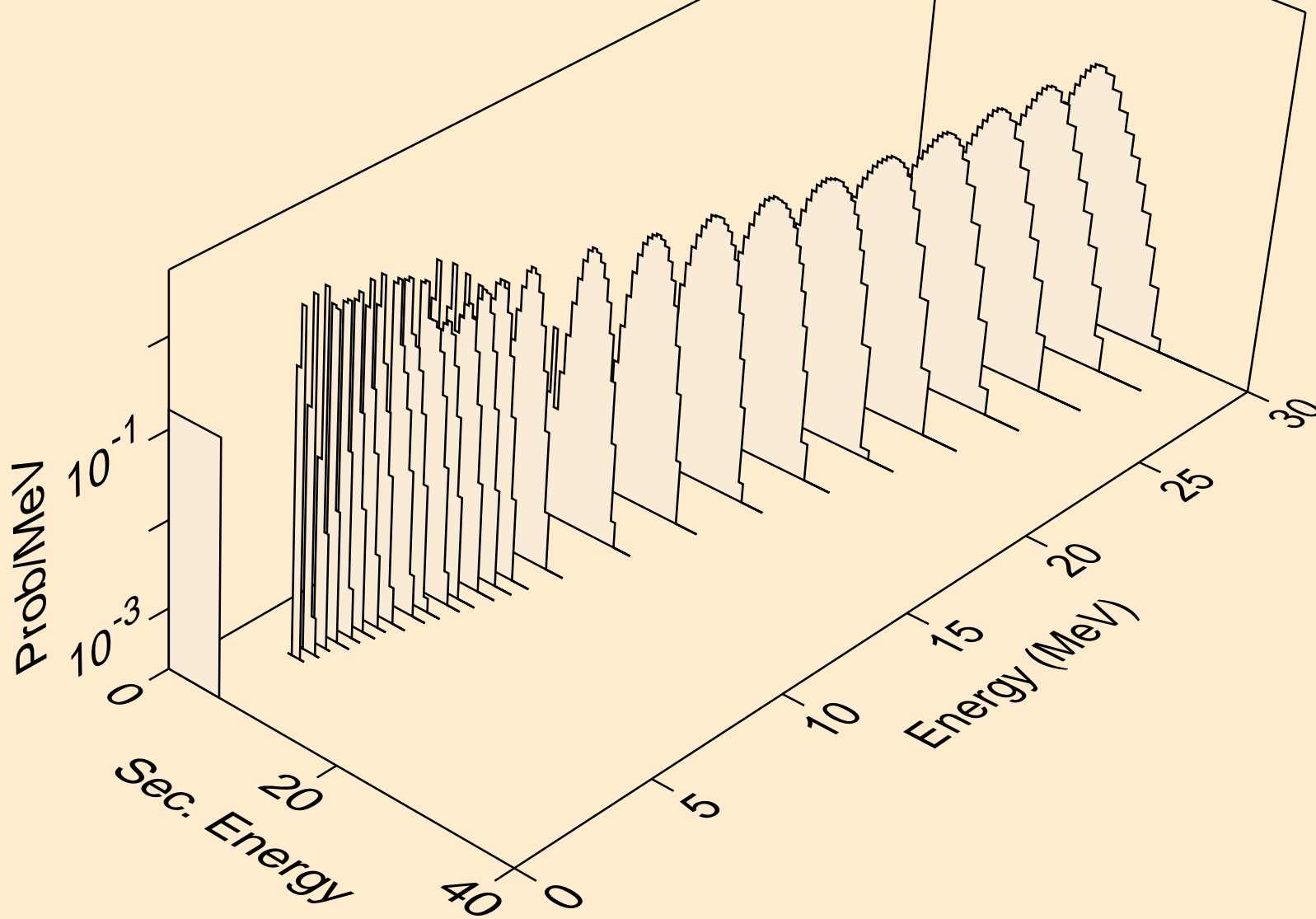




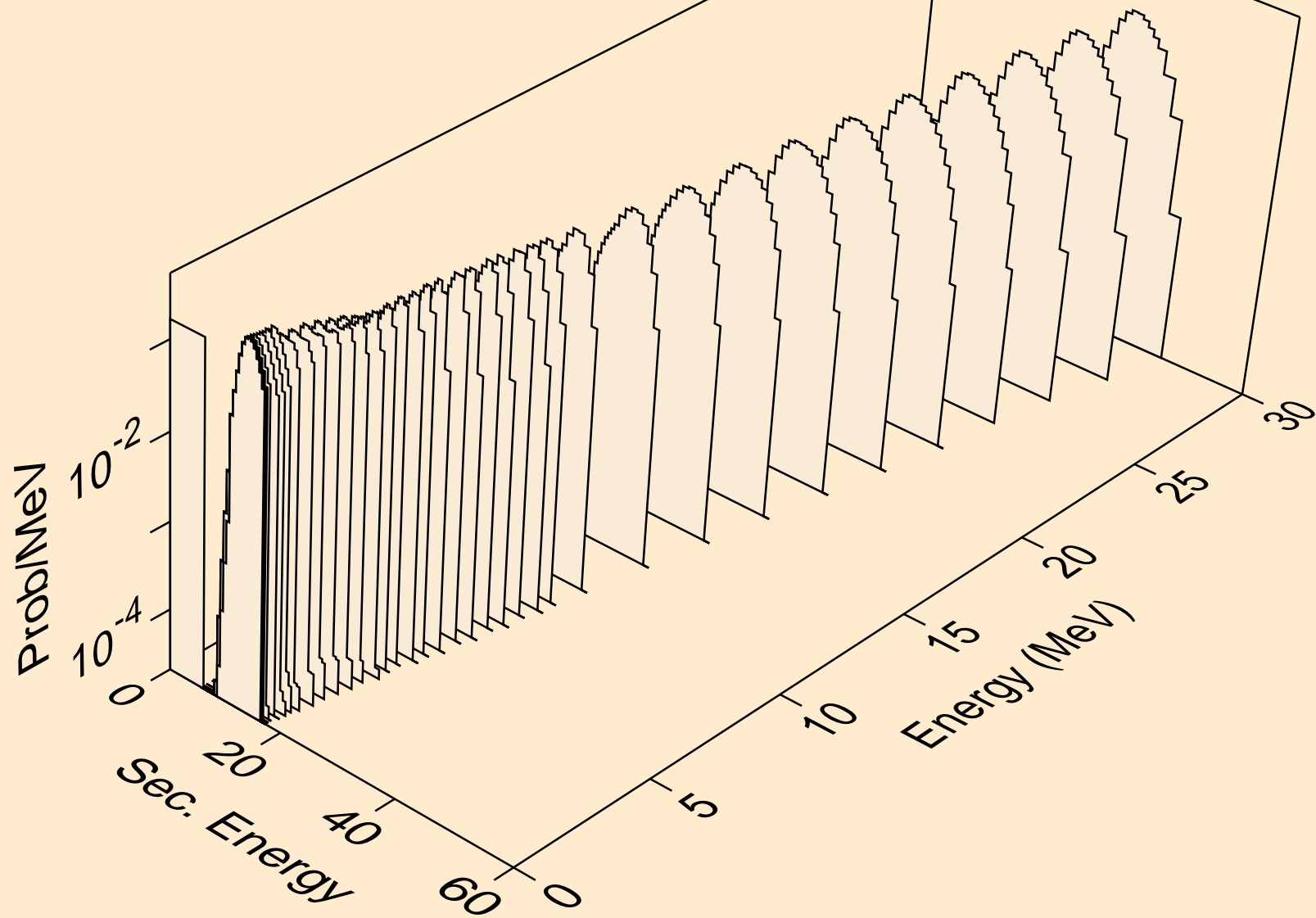
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alphas from (n,2n)2a



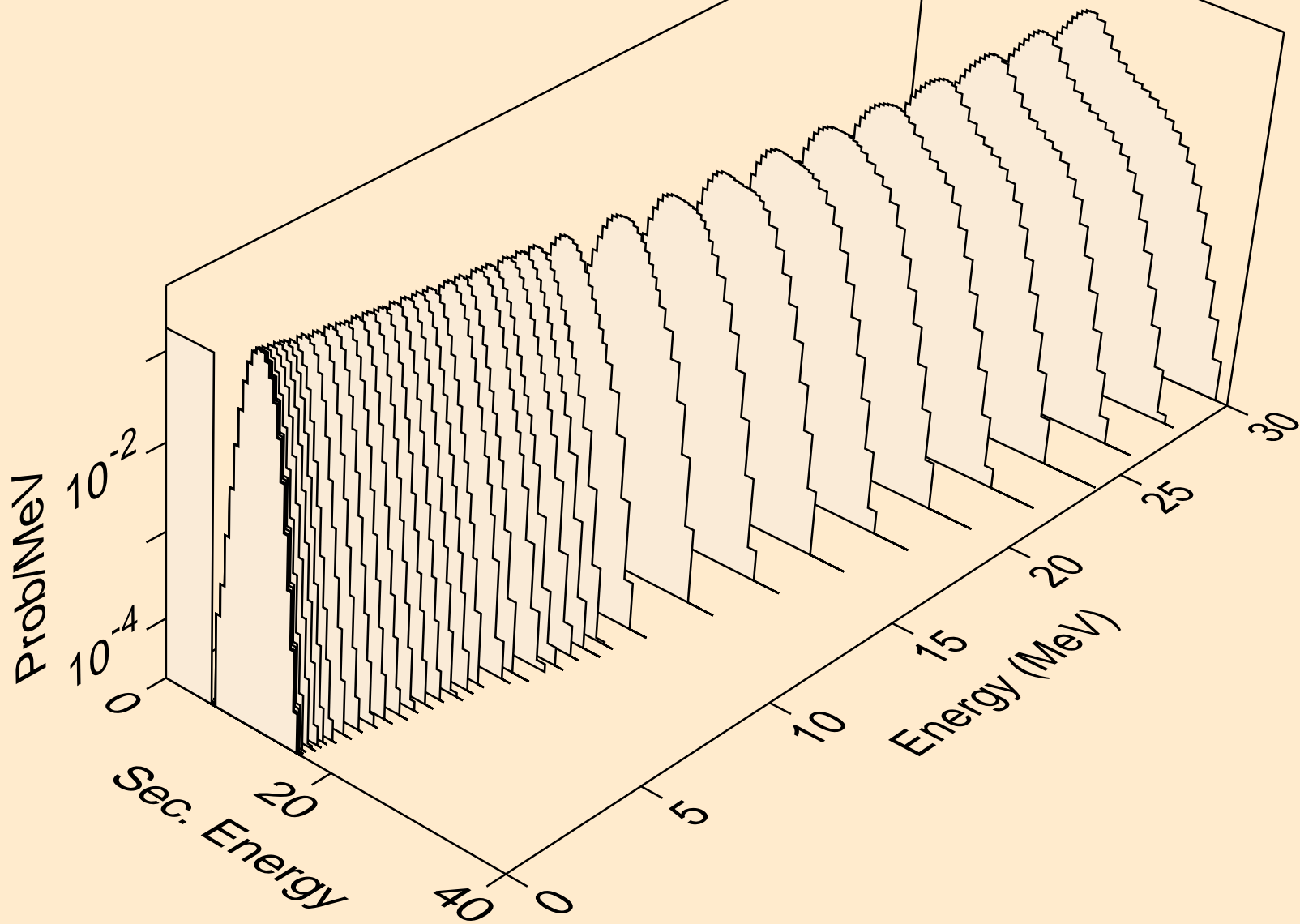
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,npa)



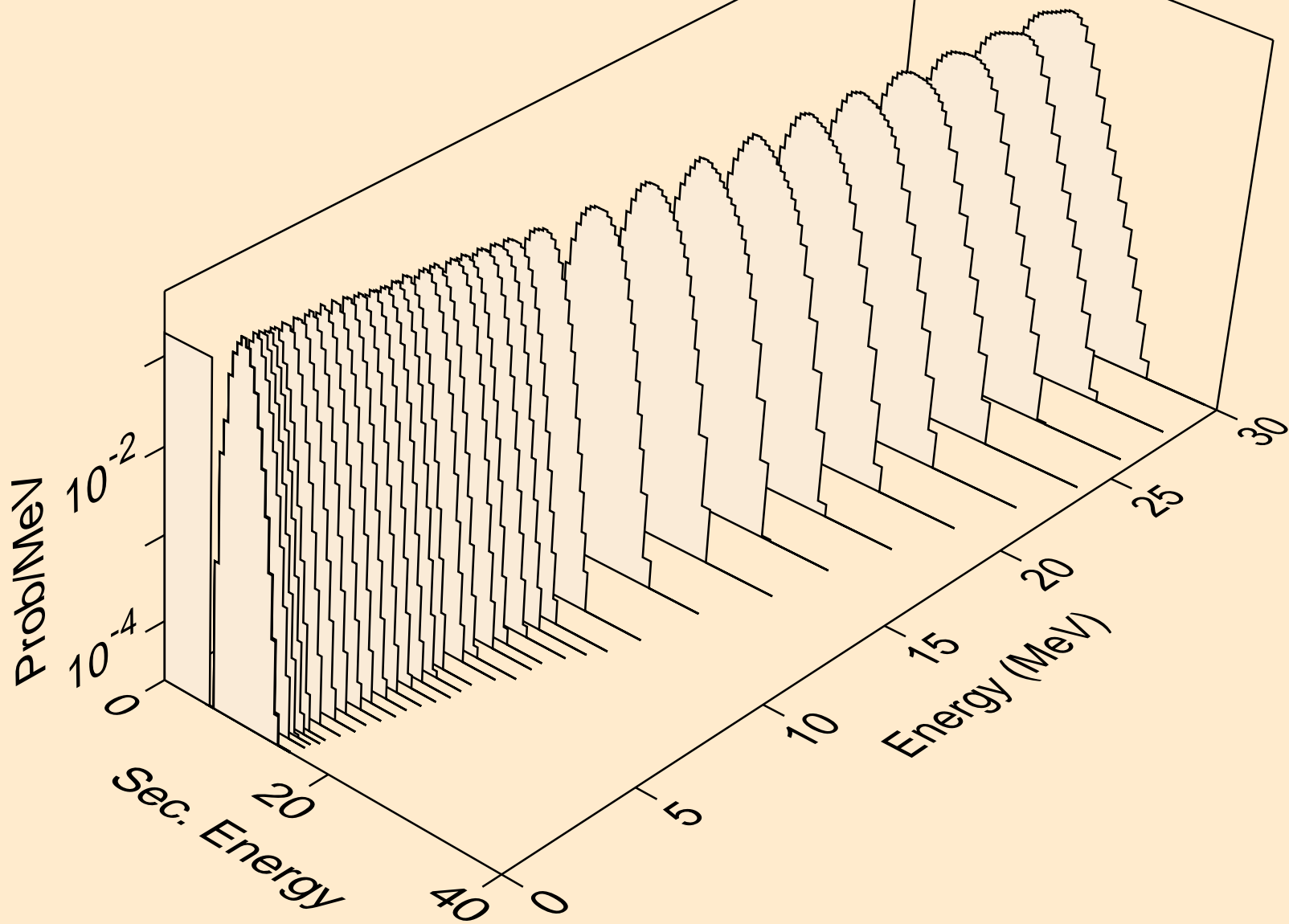
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alphas from (n,a)



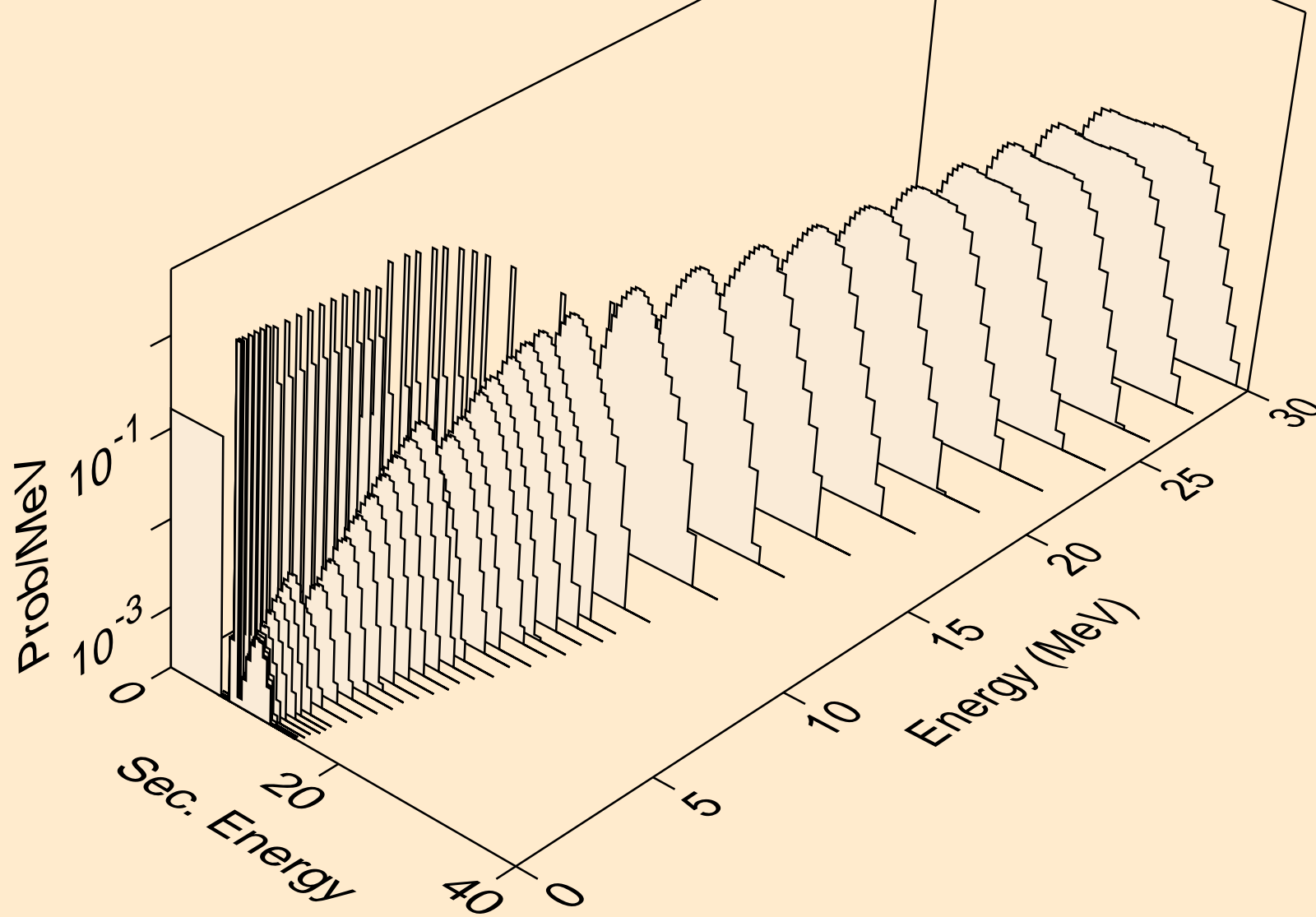
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alphas from (n,2a)



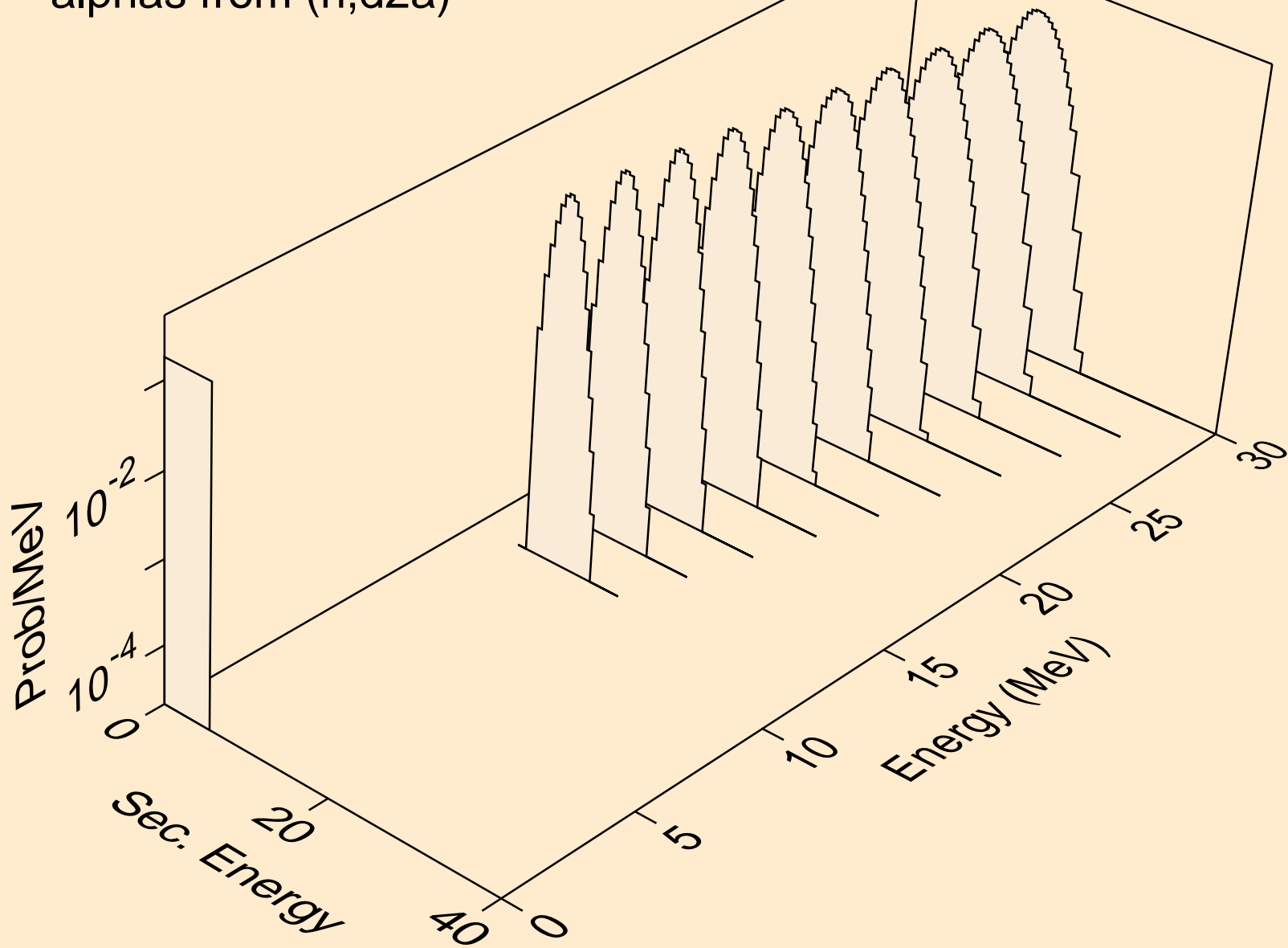
BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3a)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,d2a)



BI190M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

