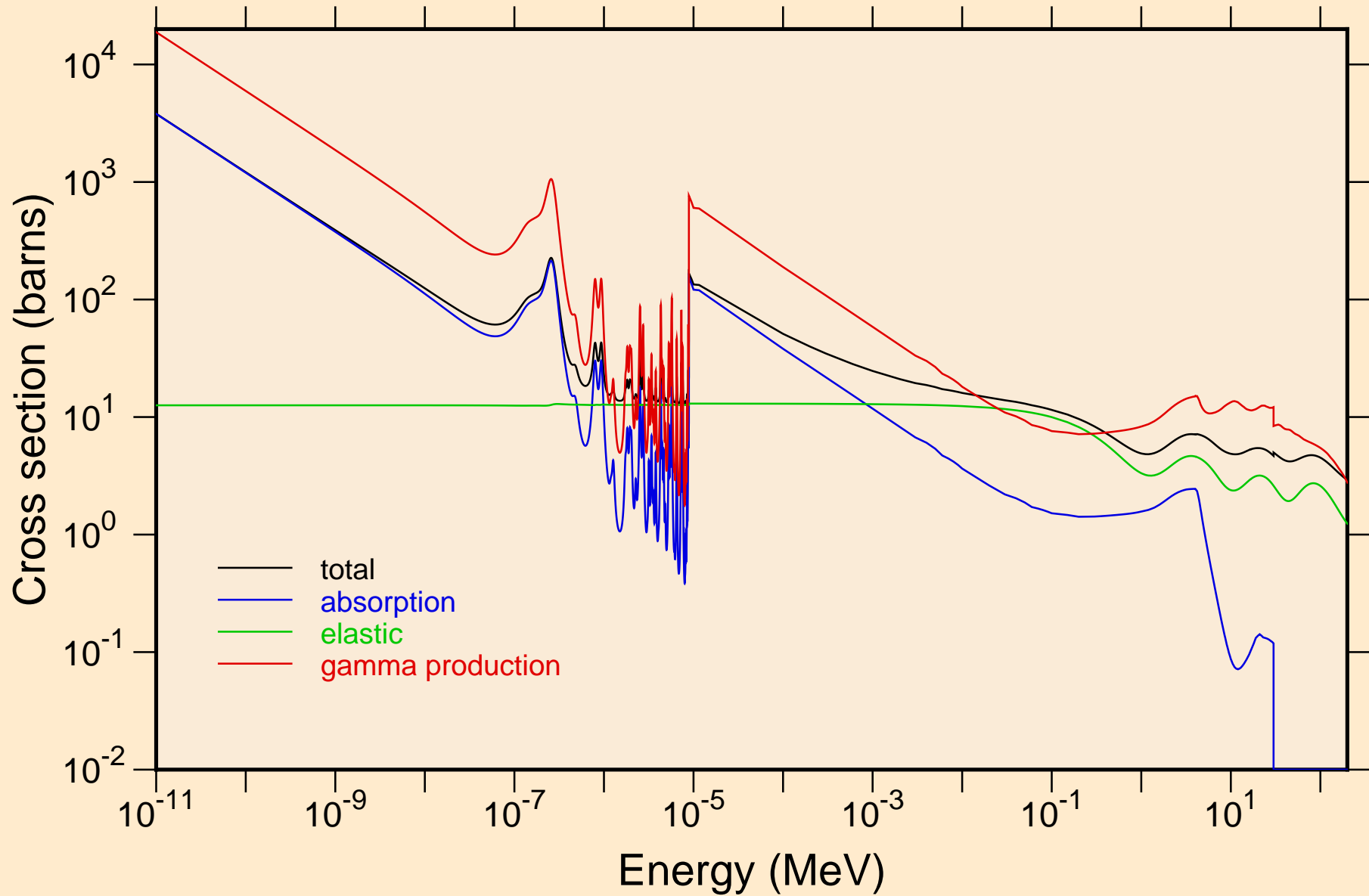
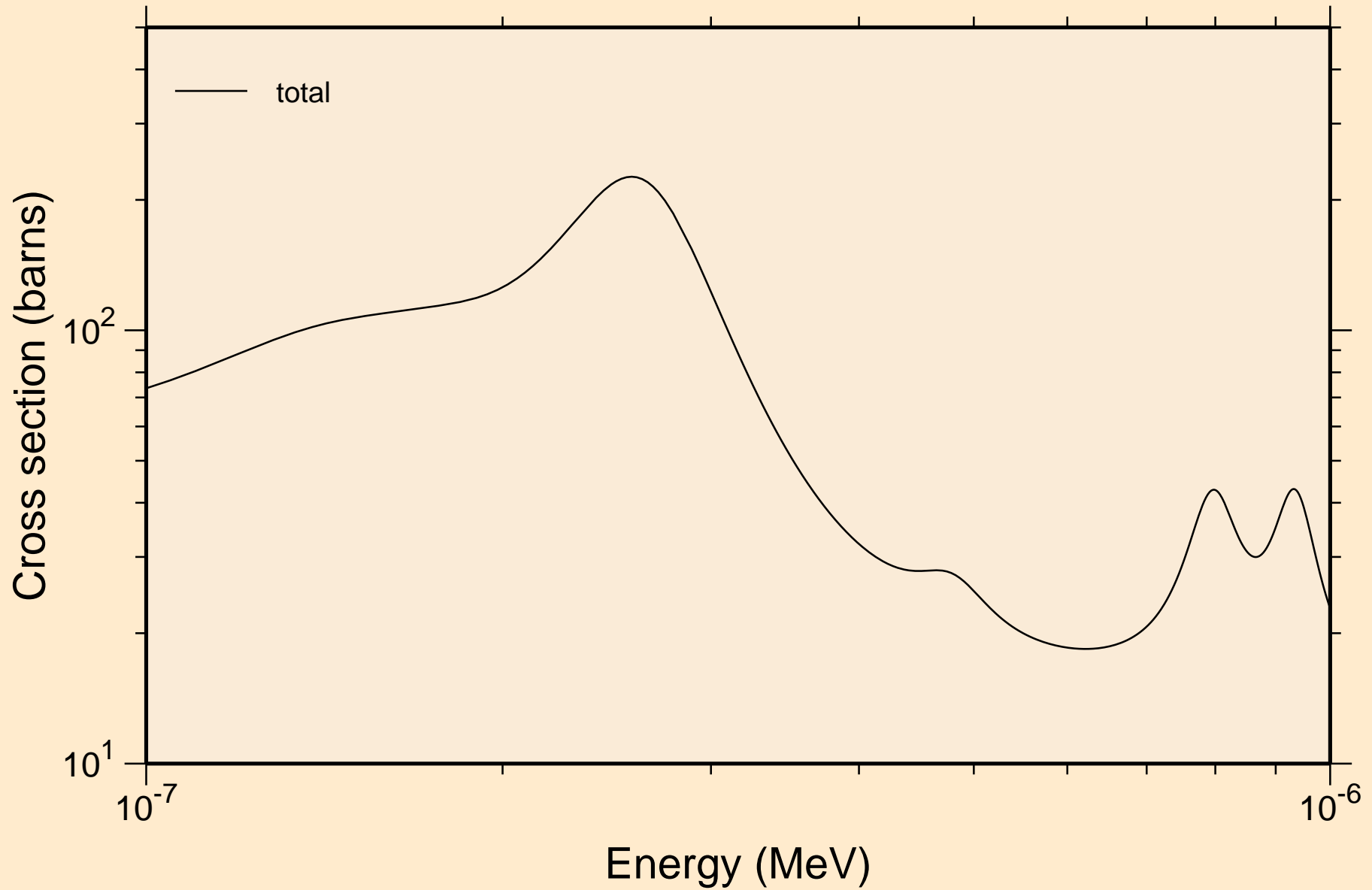


# BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

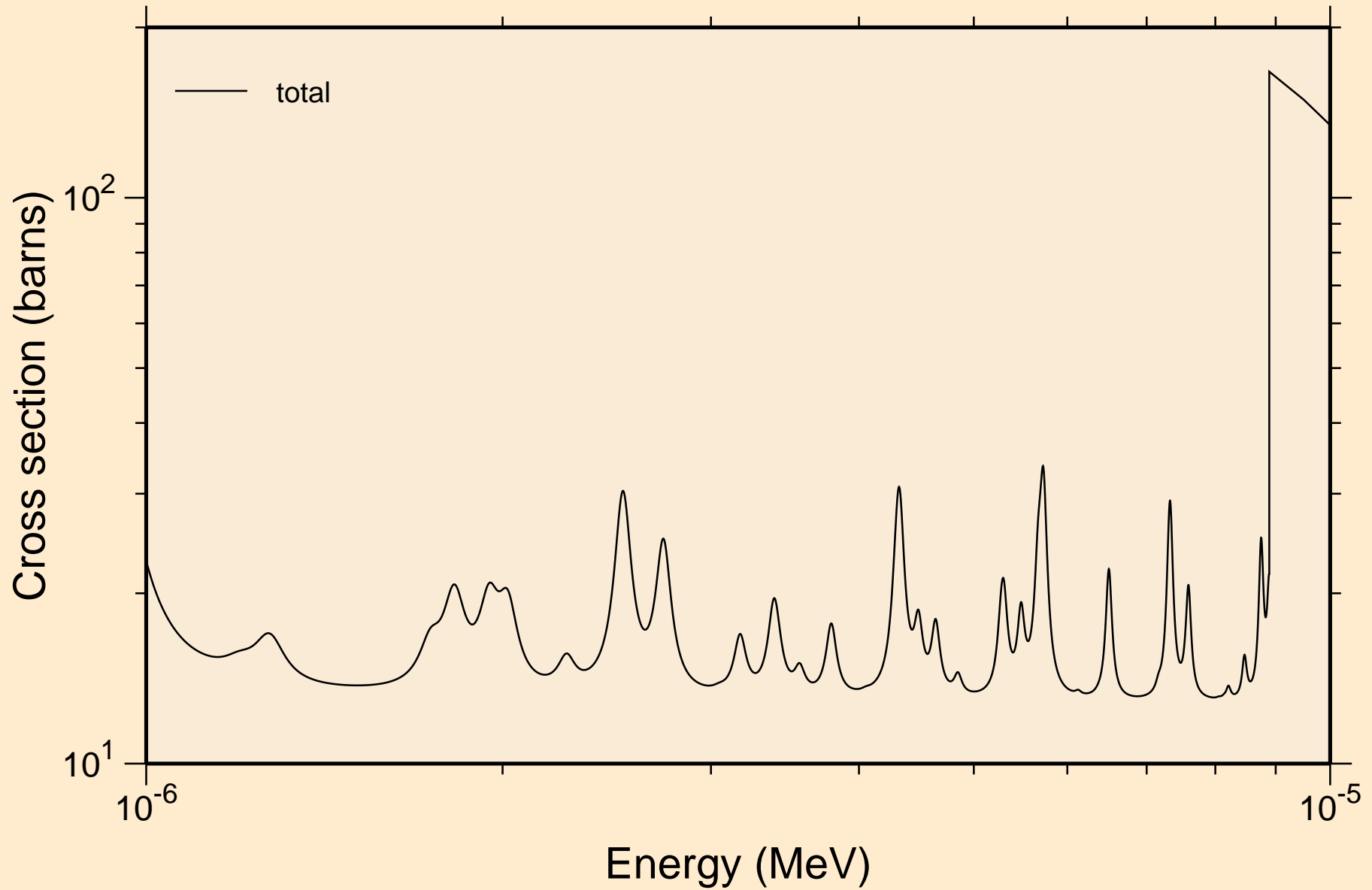
## Principal cross sections



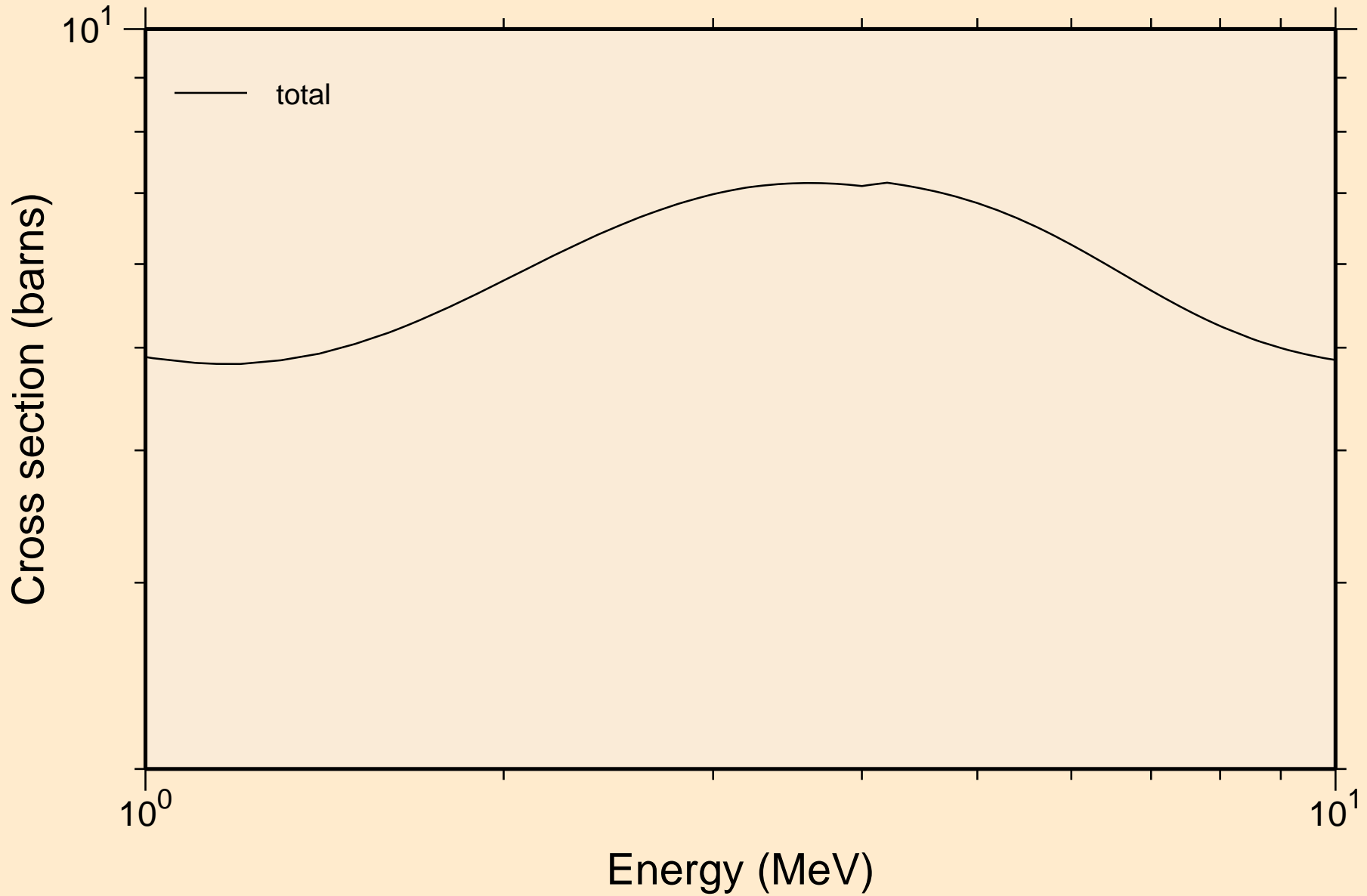
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resonance total cross section



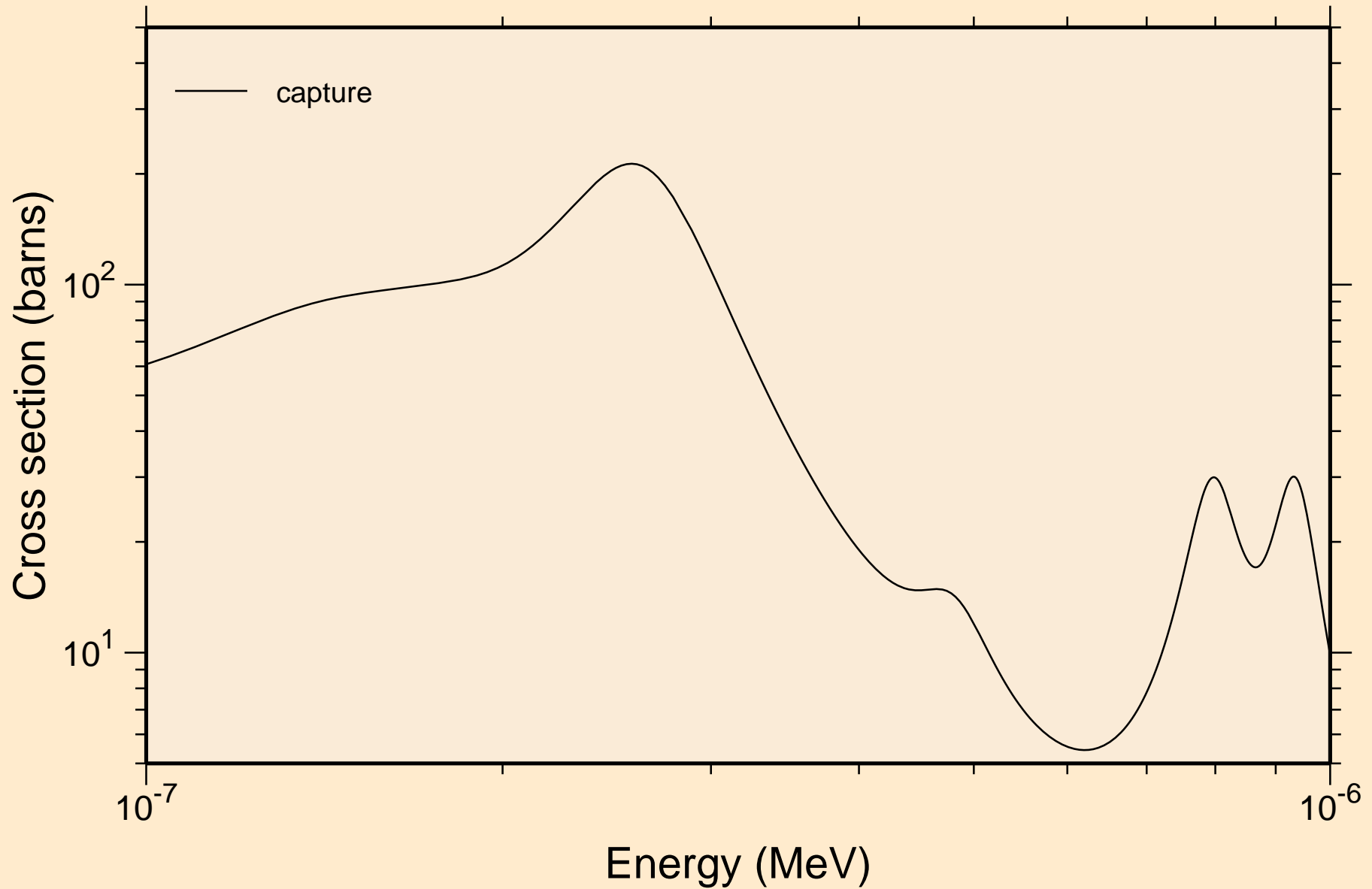
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resonance total cross section



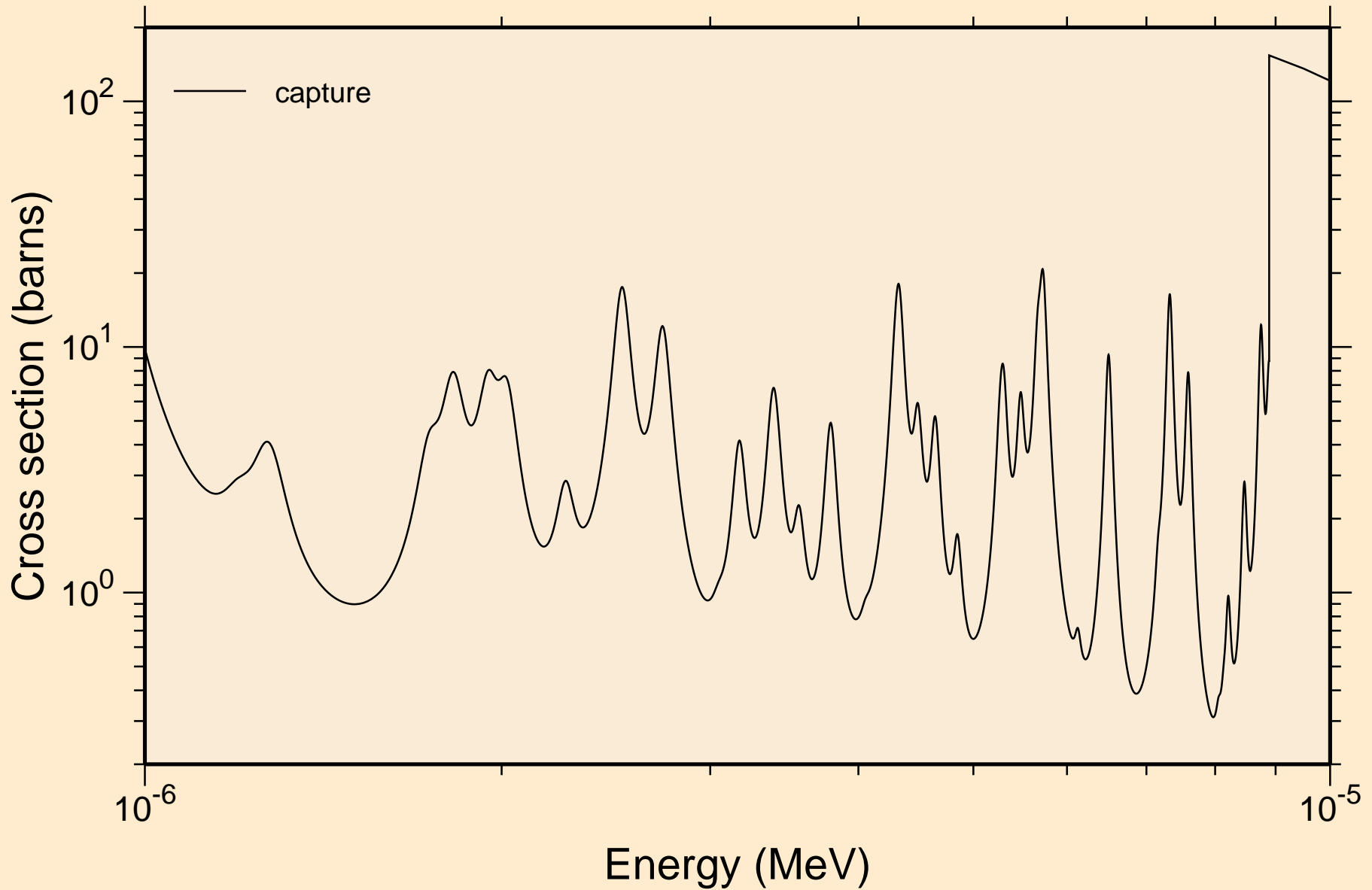
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resonance total cross section



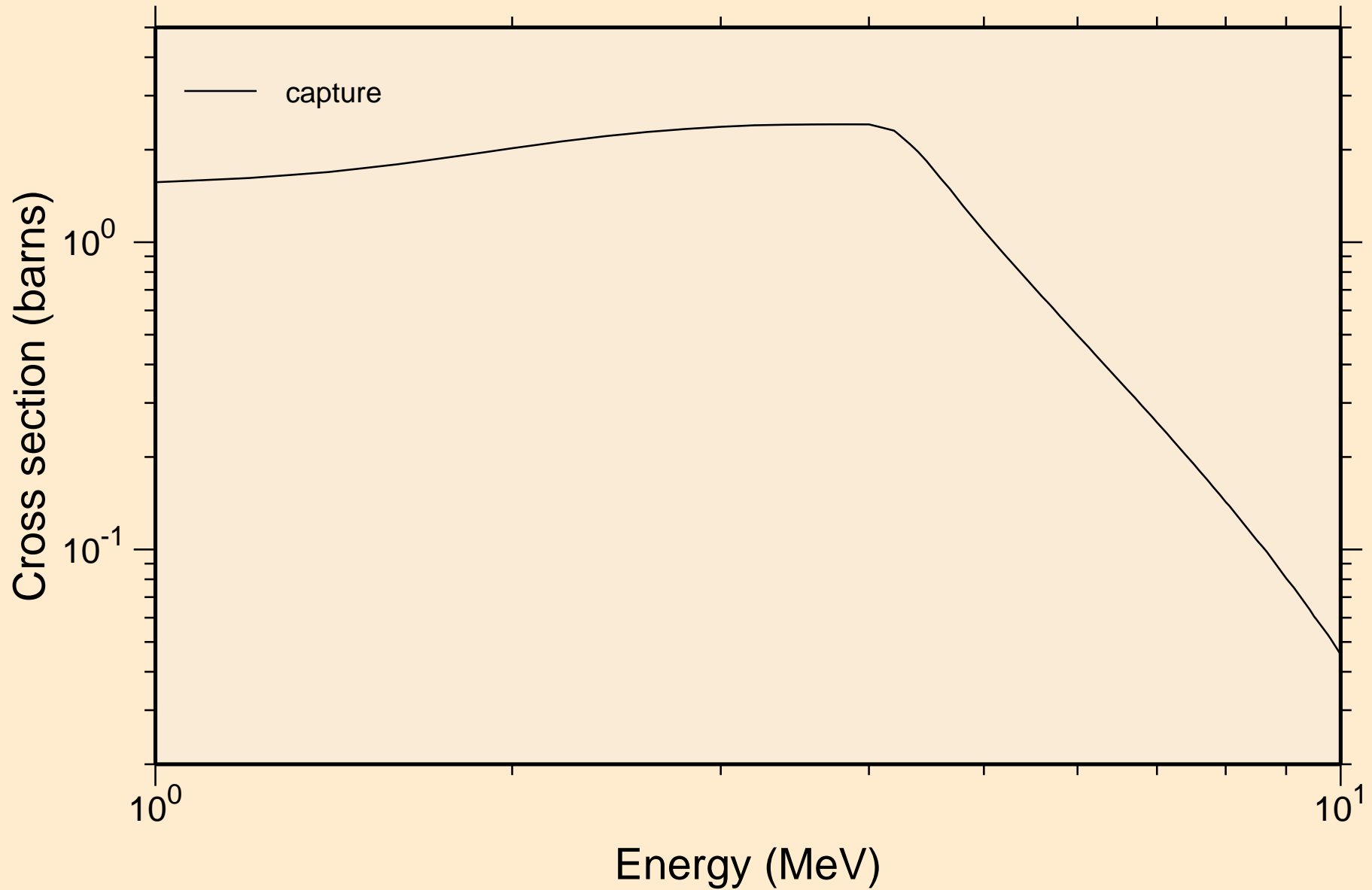
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

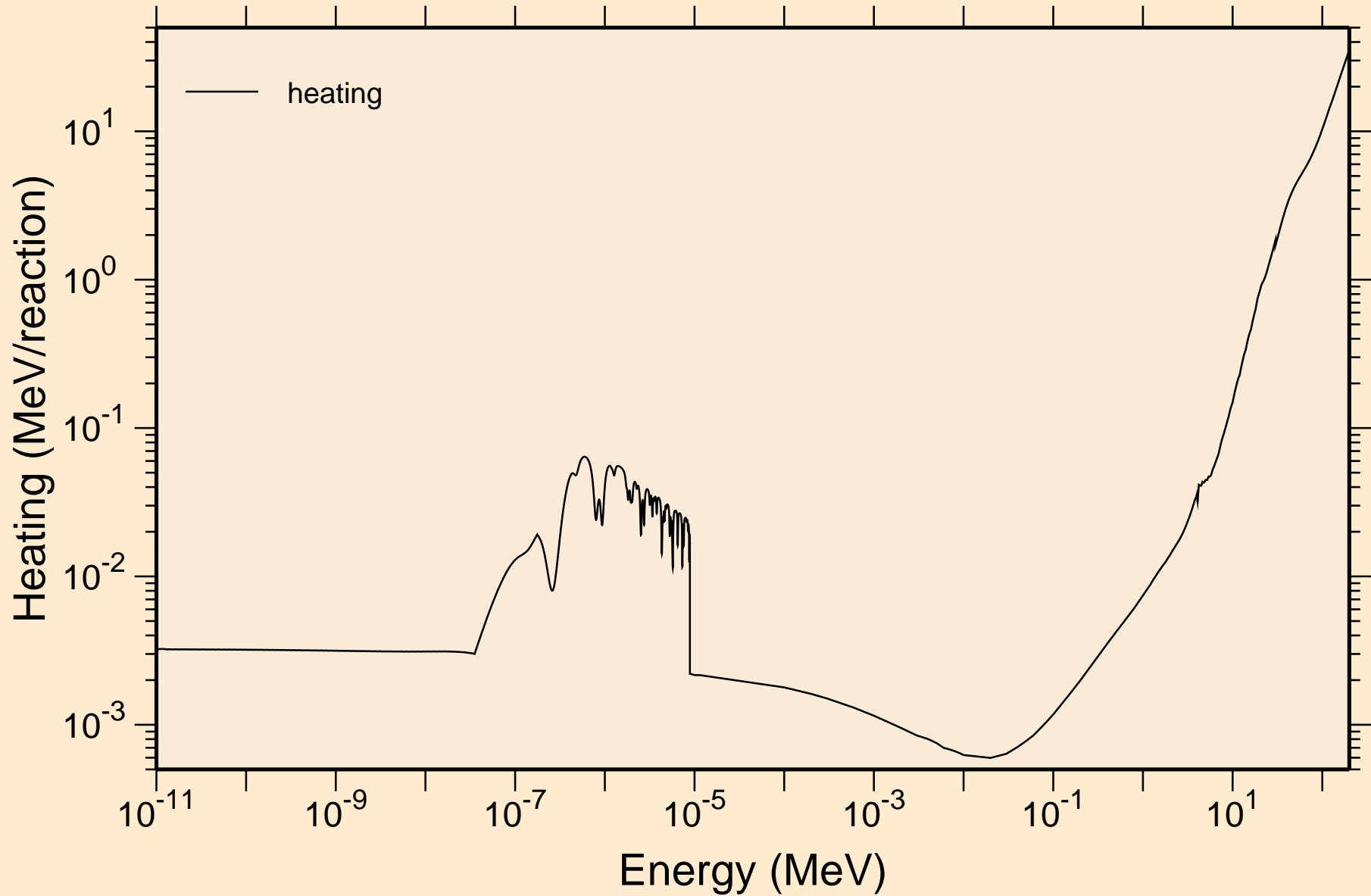


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



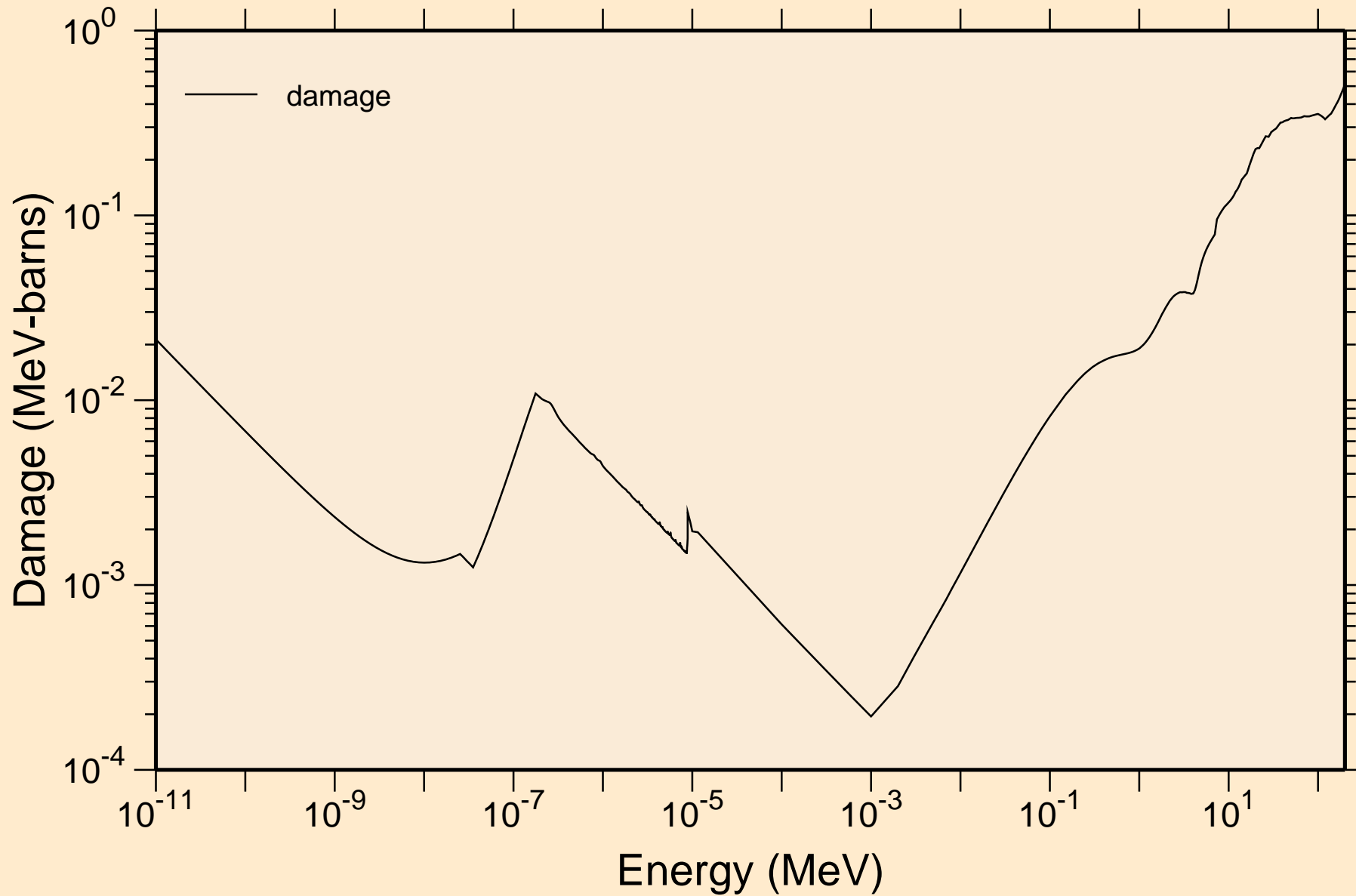
# BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

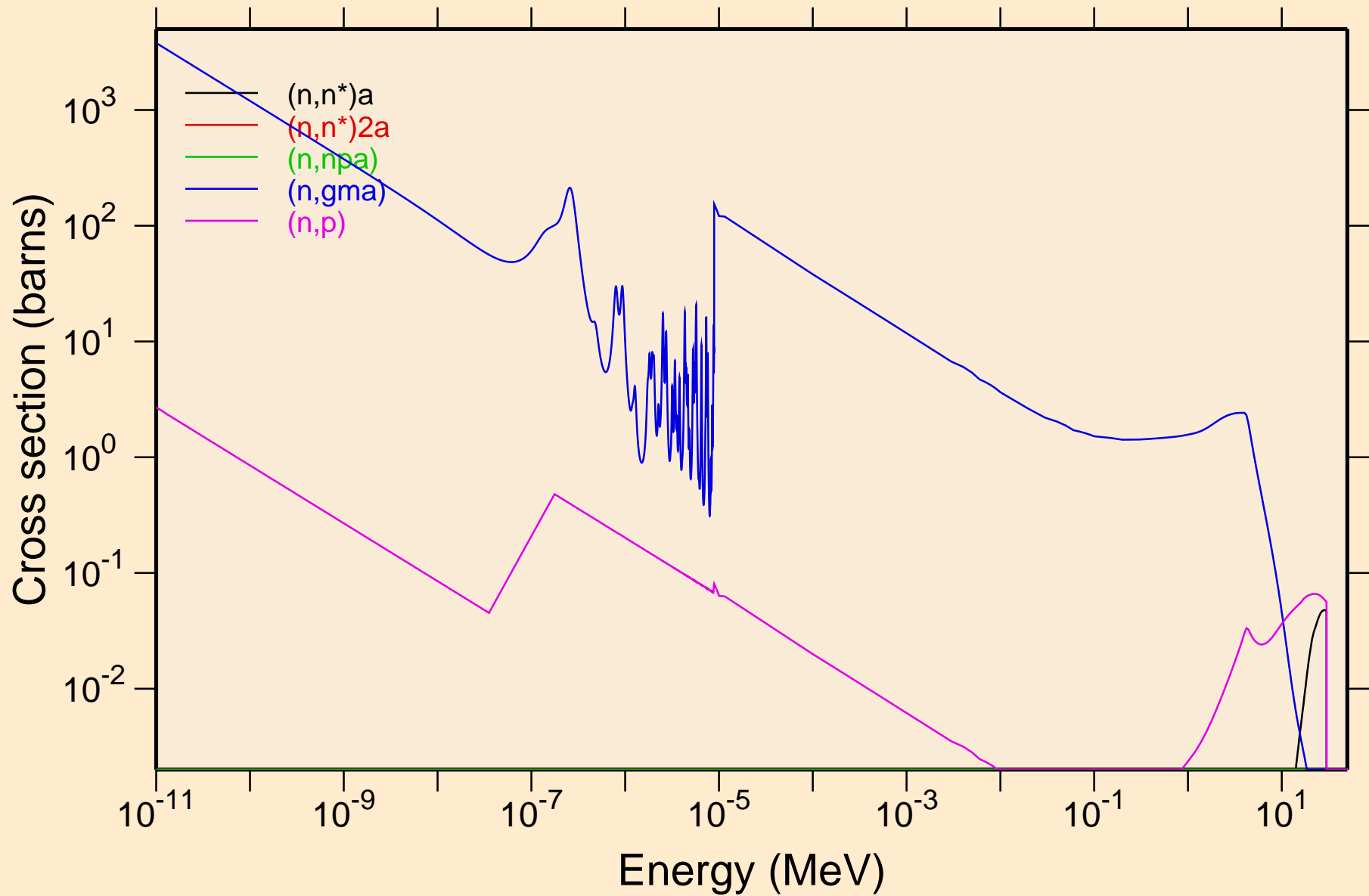




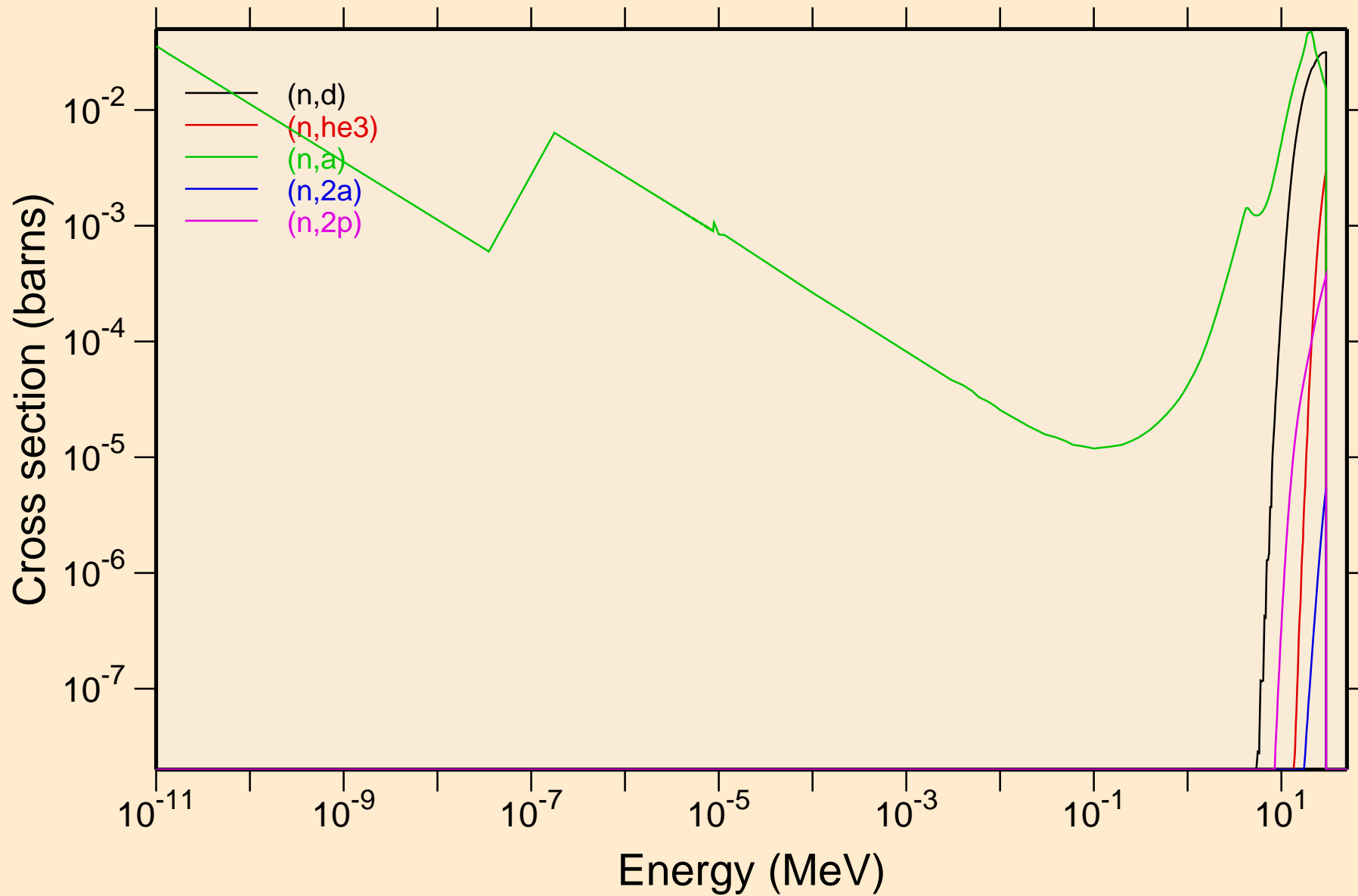
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



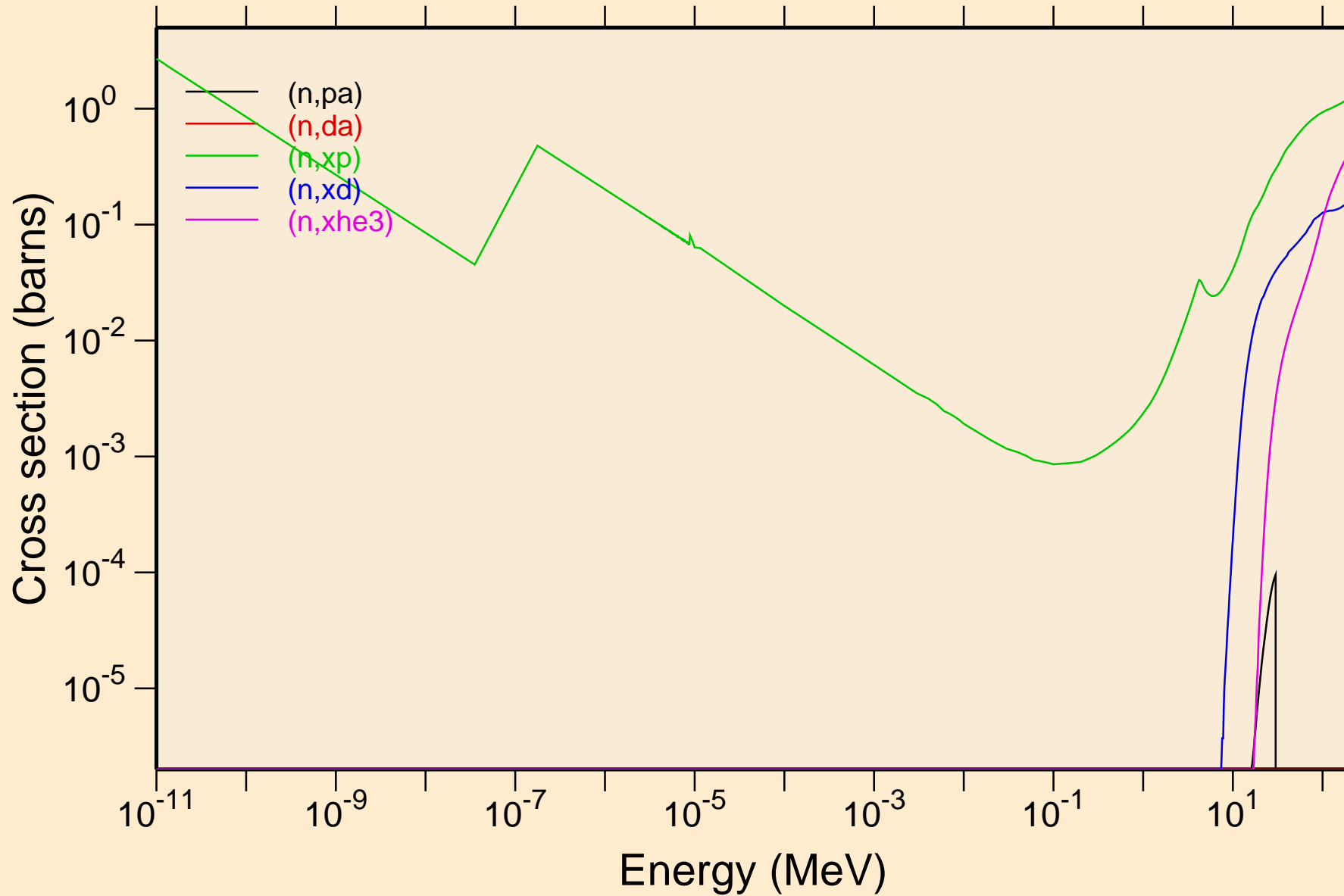
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



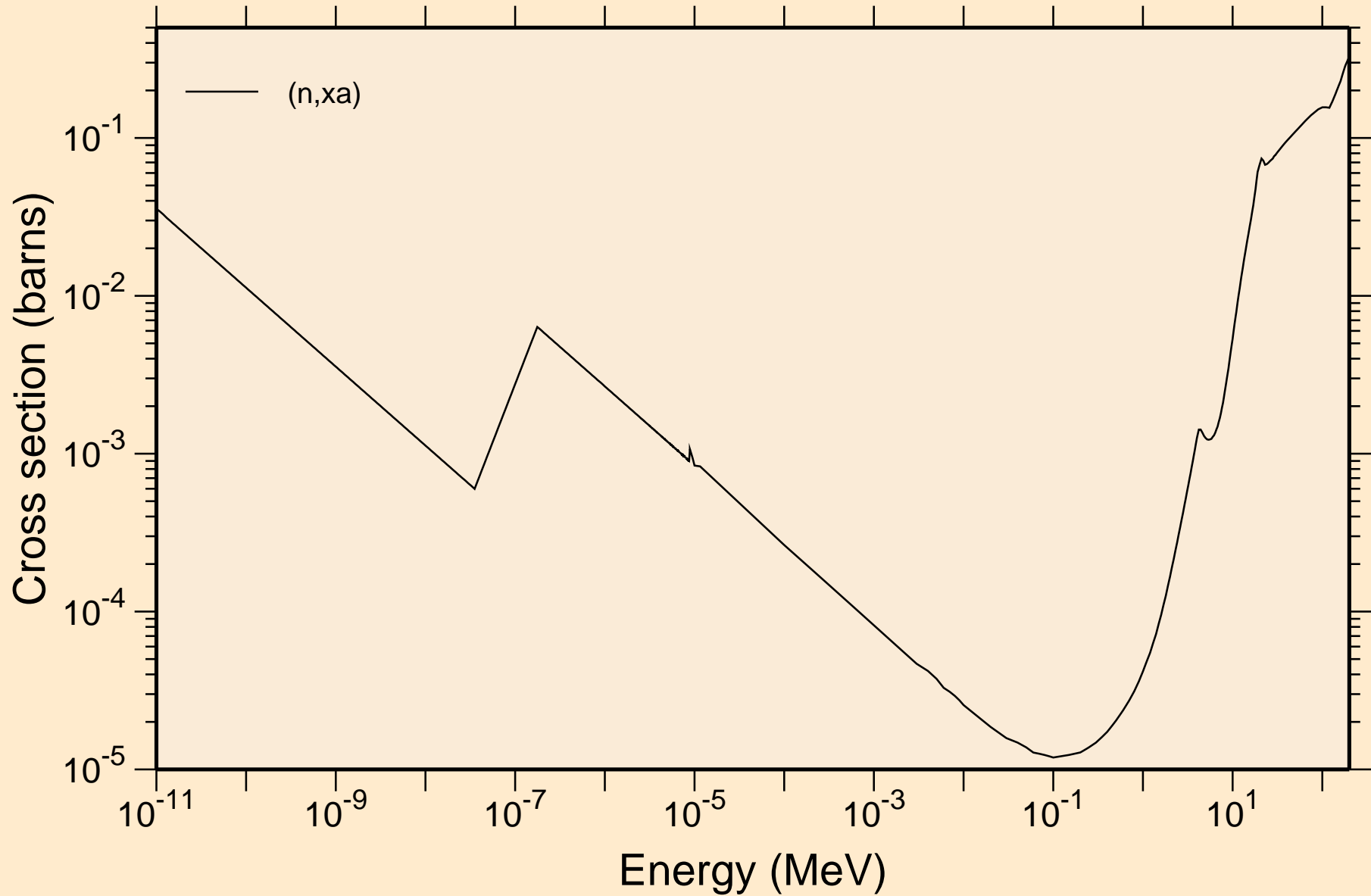
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

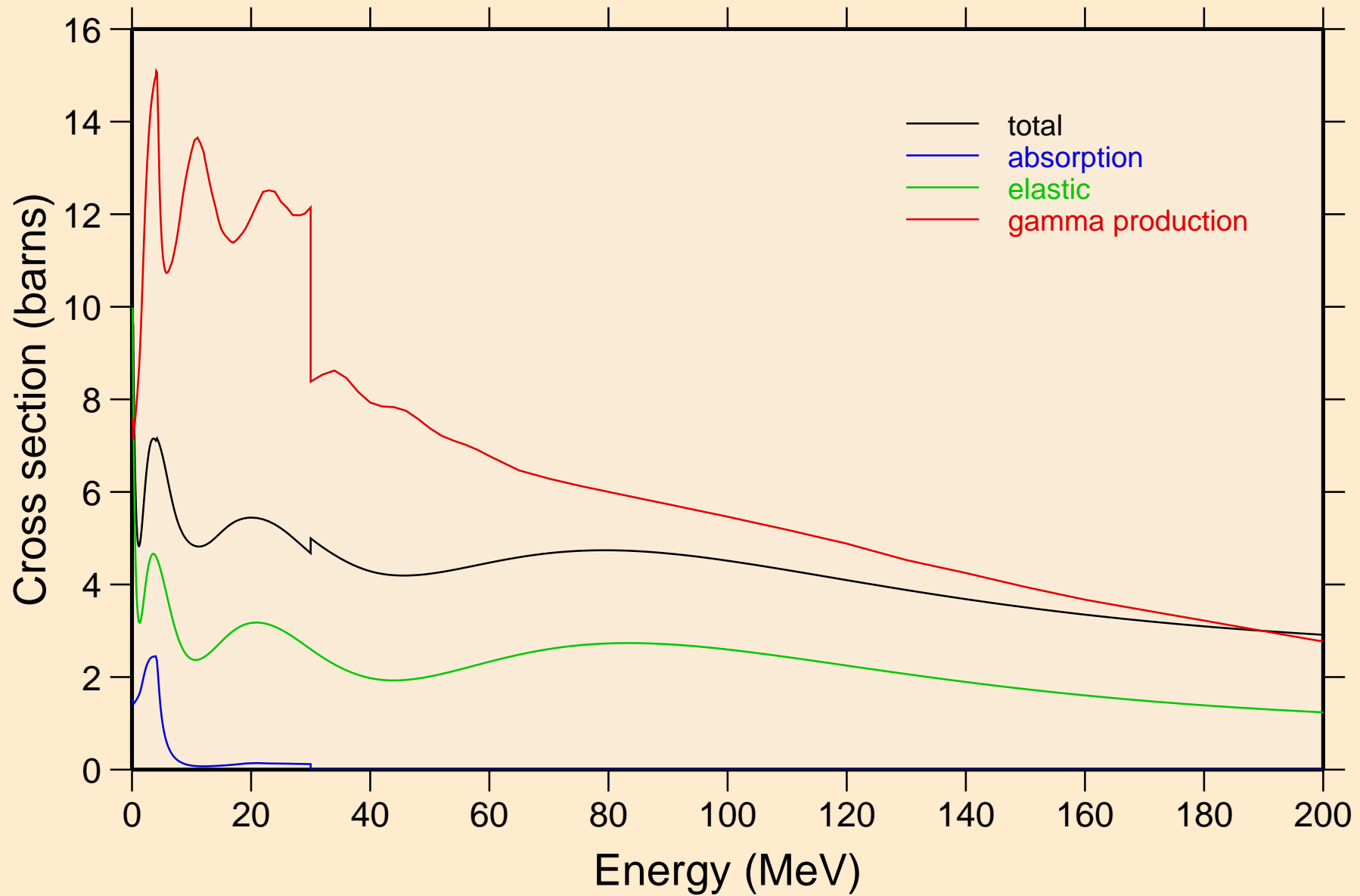


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



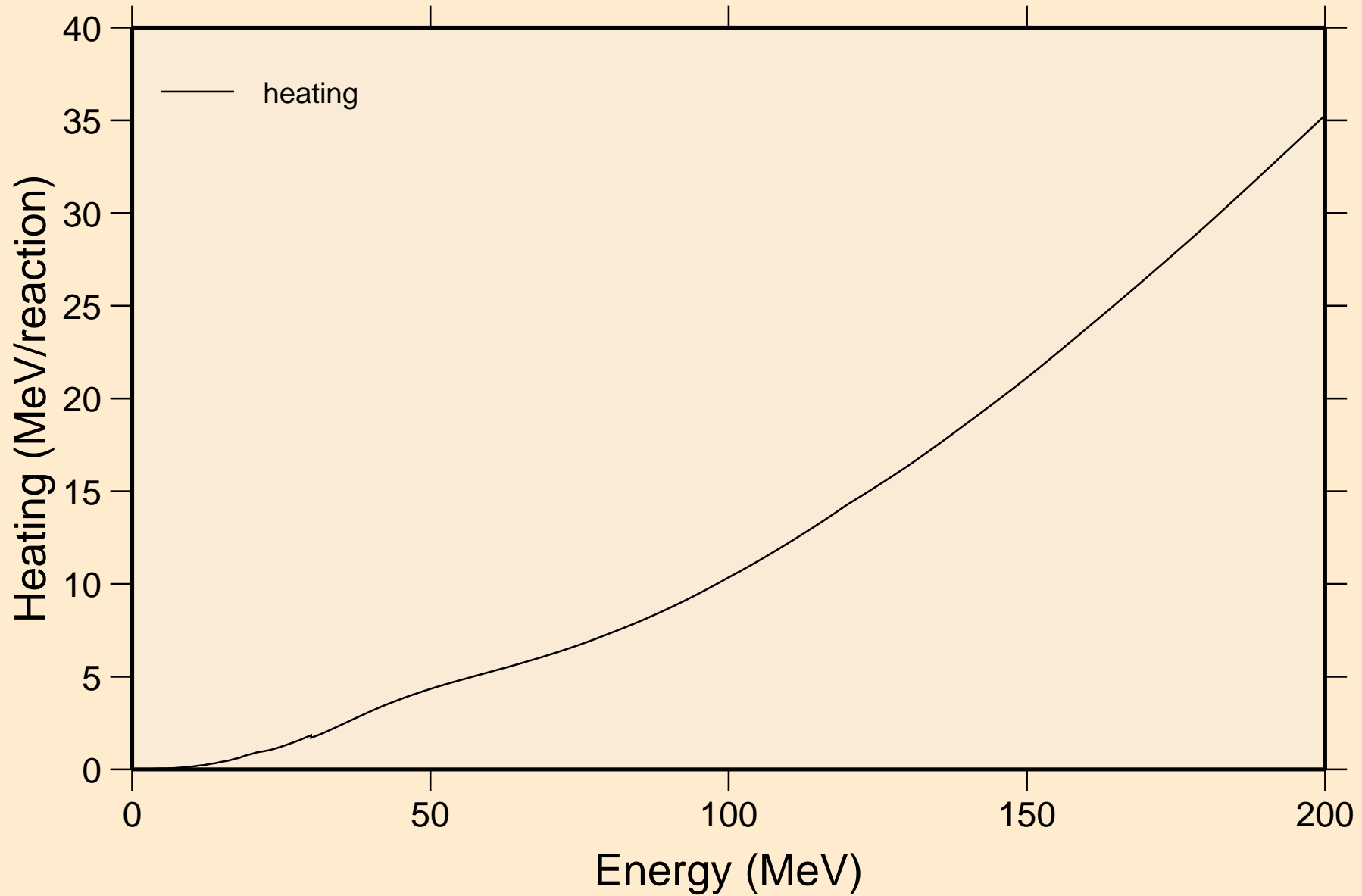
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## Principal cross sections

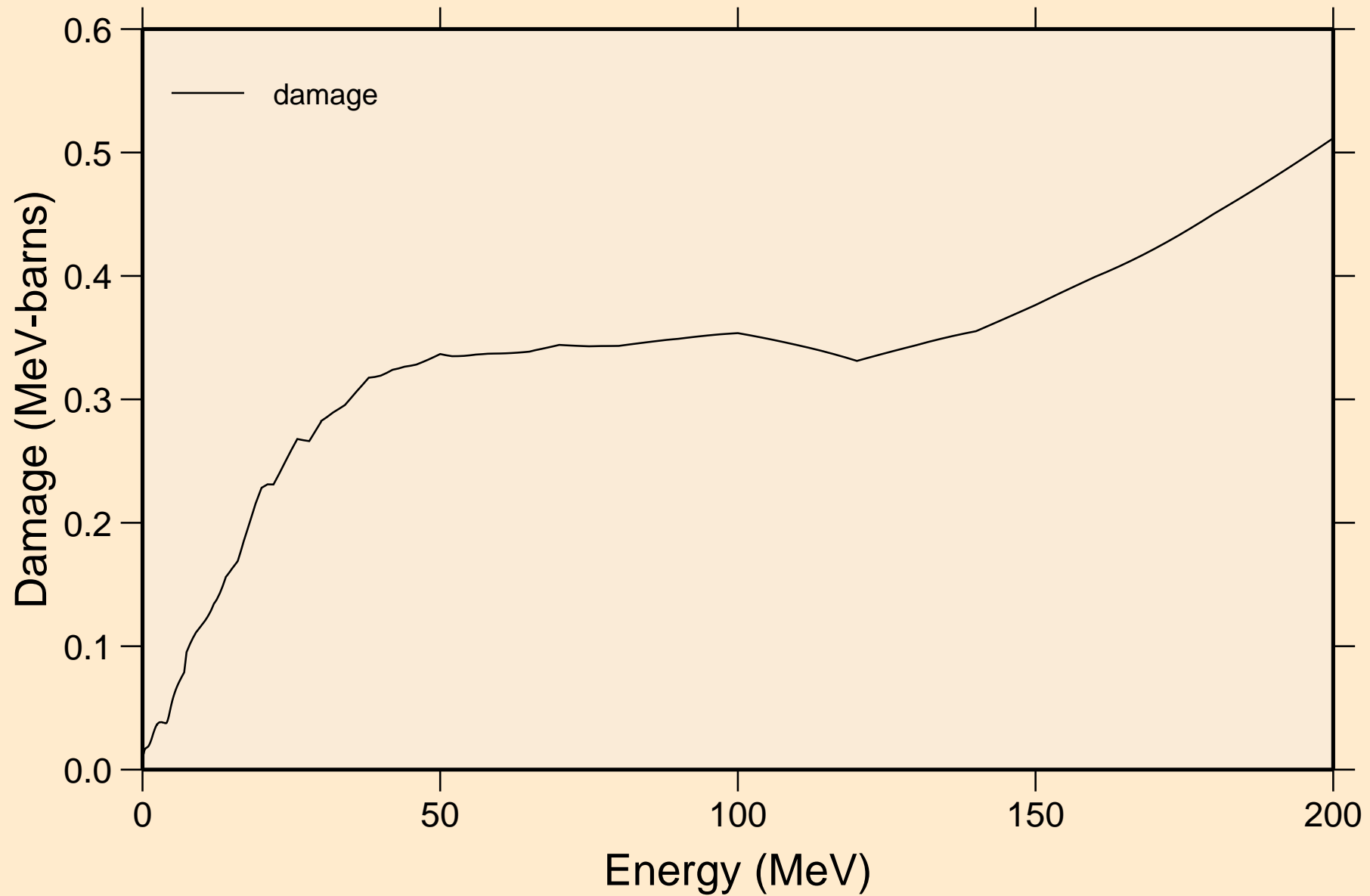


# BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

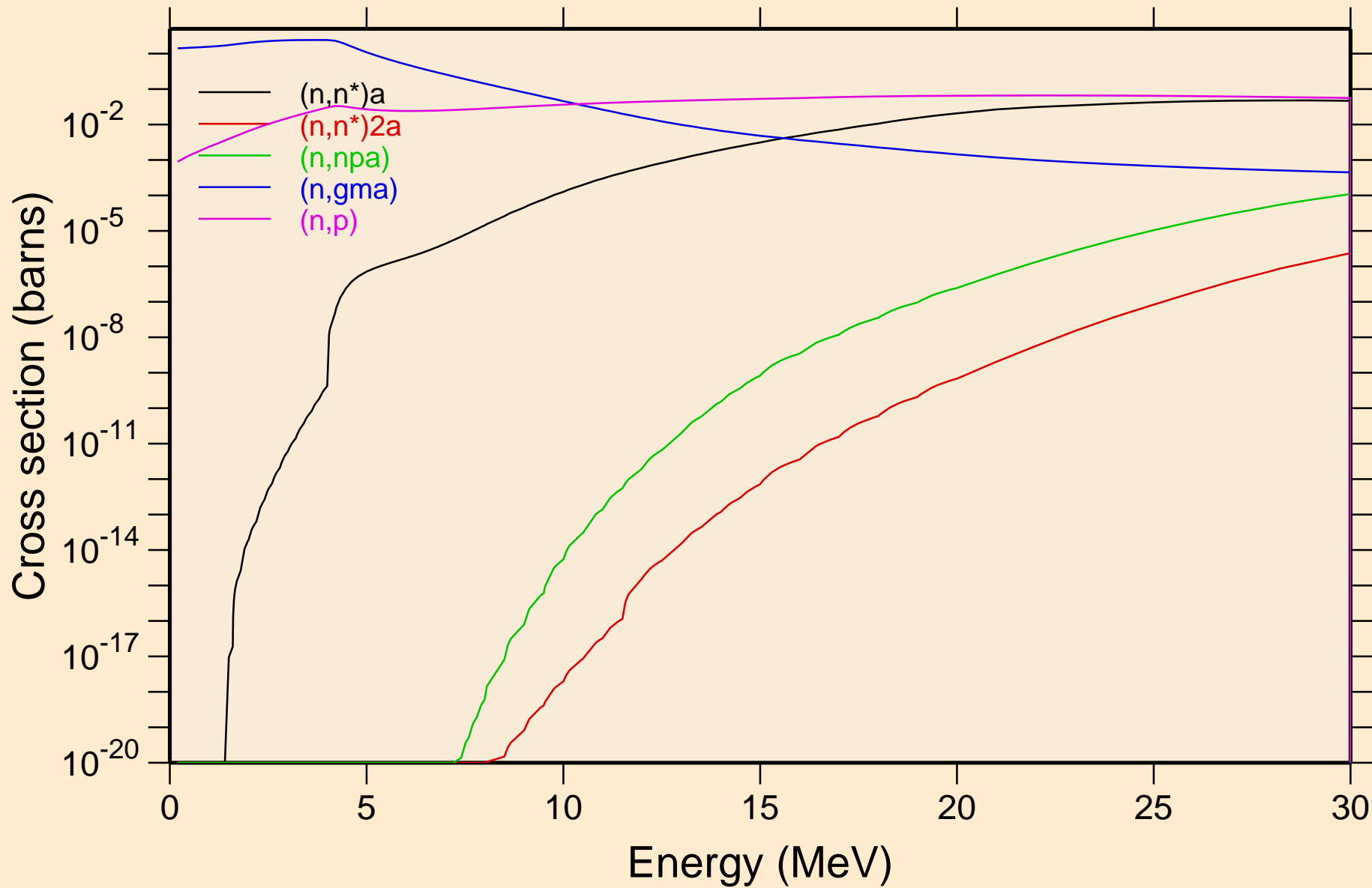


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

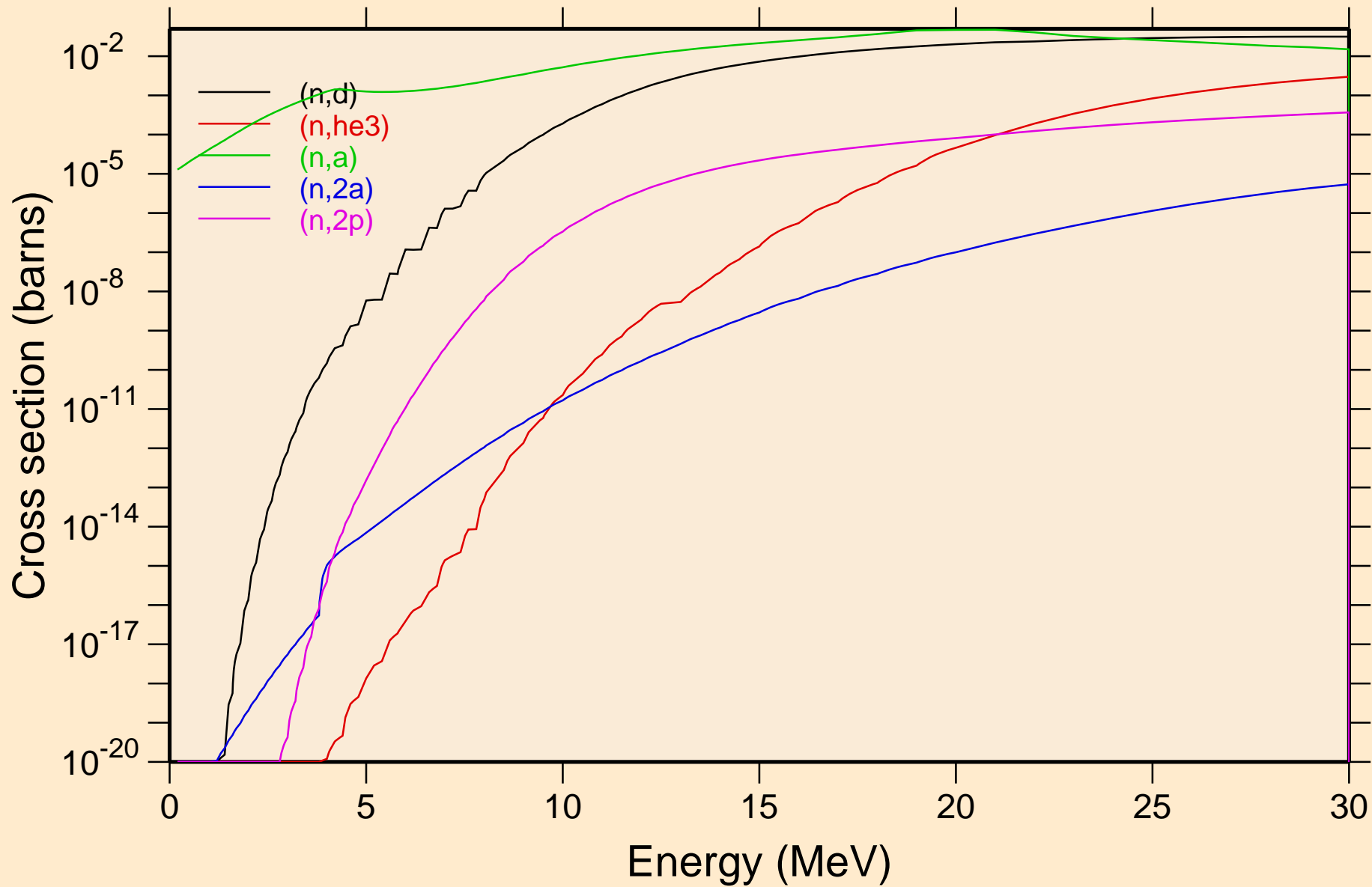




BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

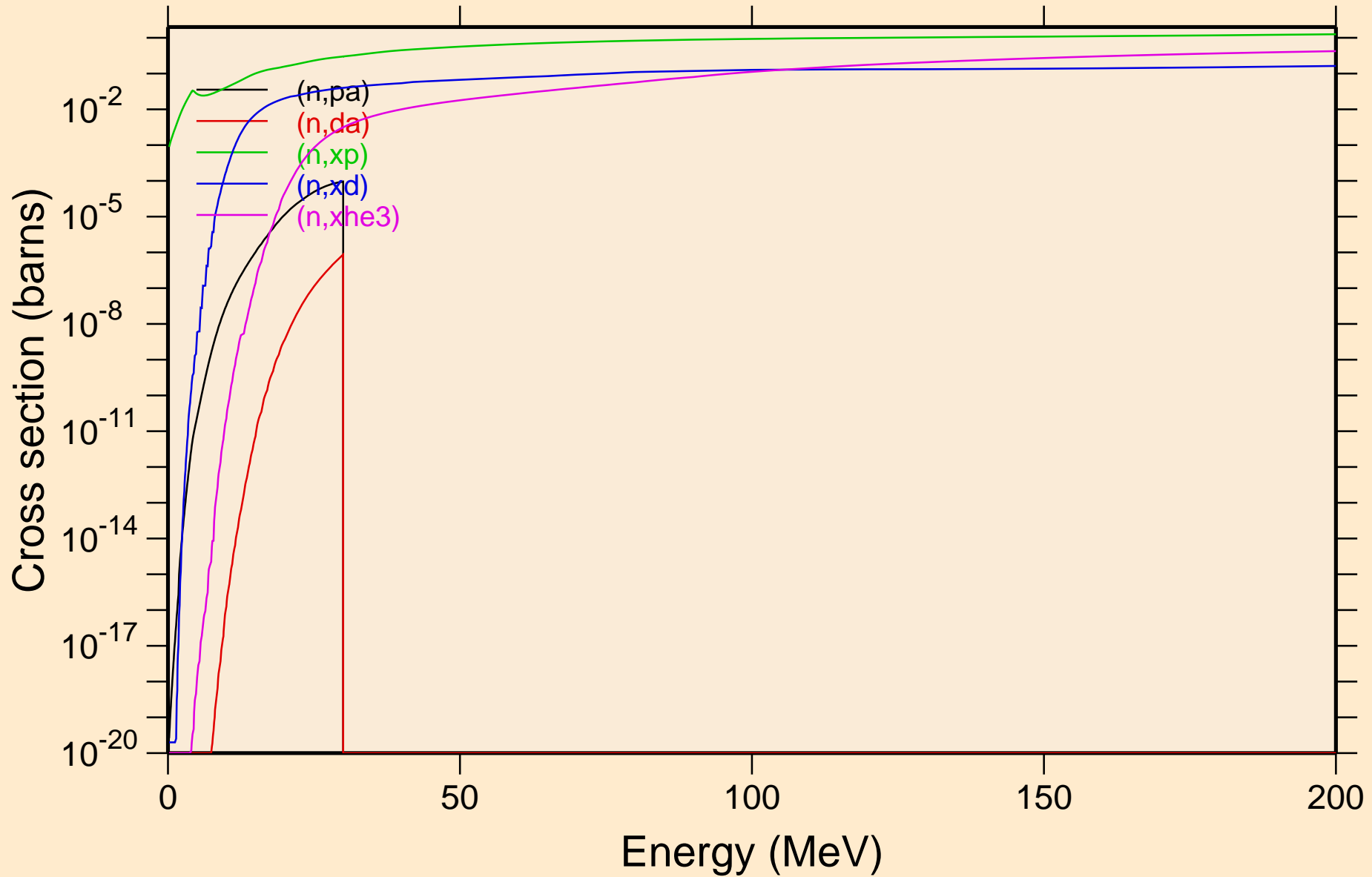


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

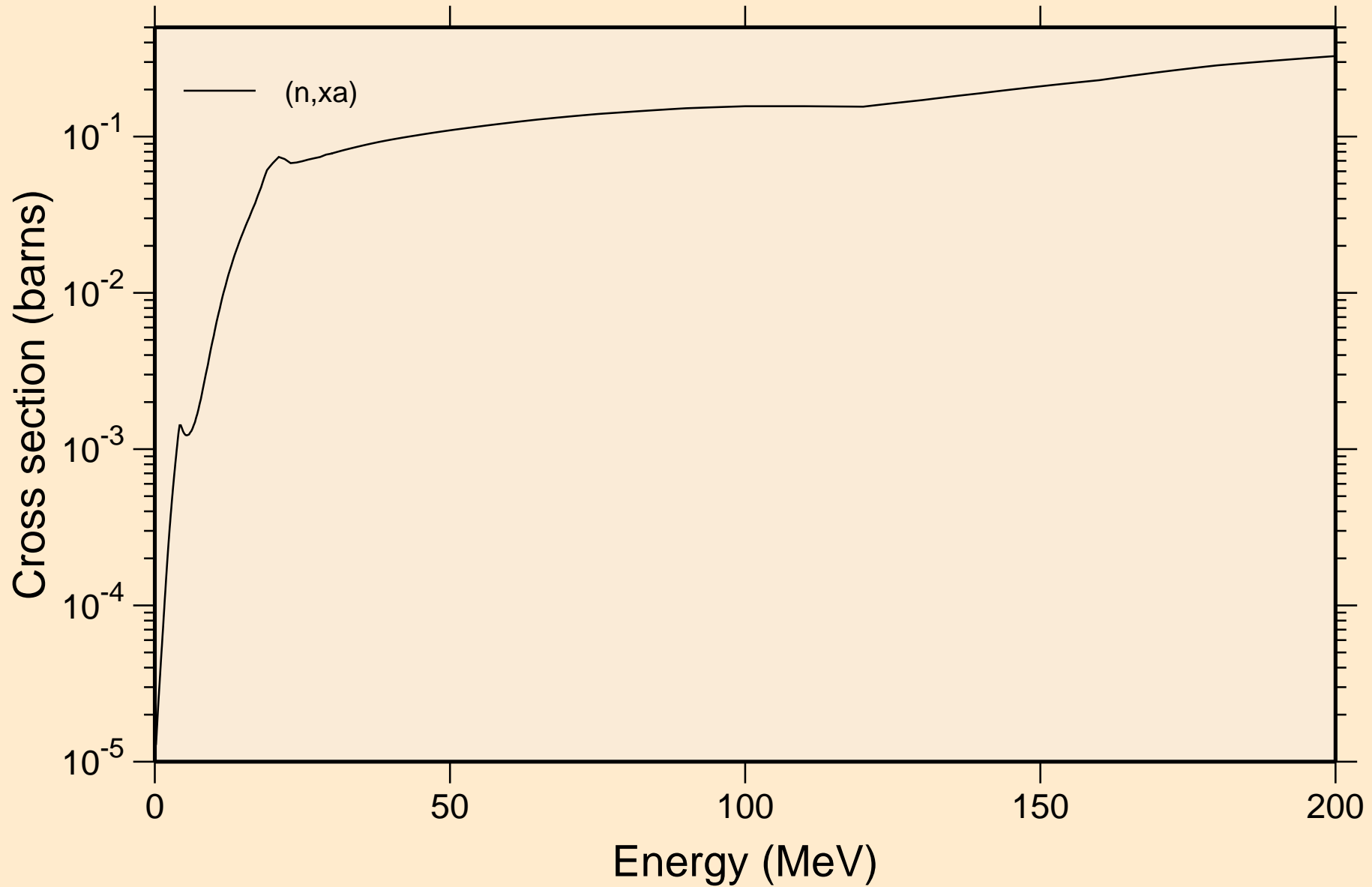


# BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

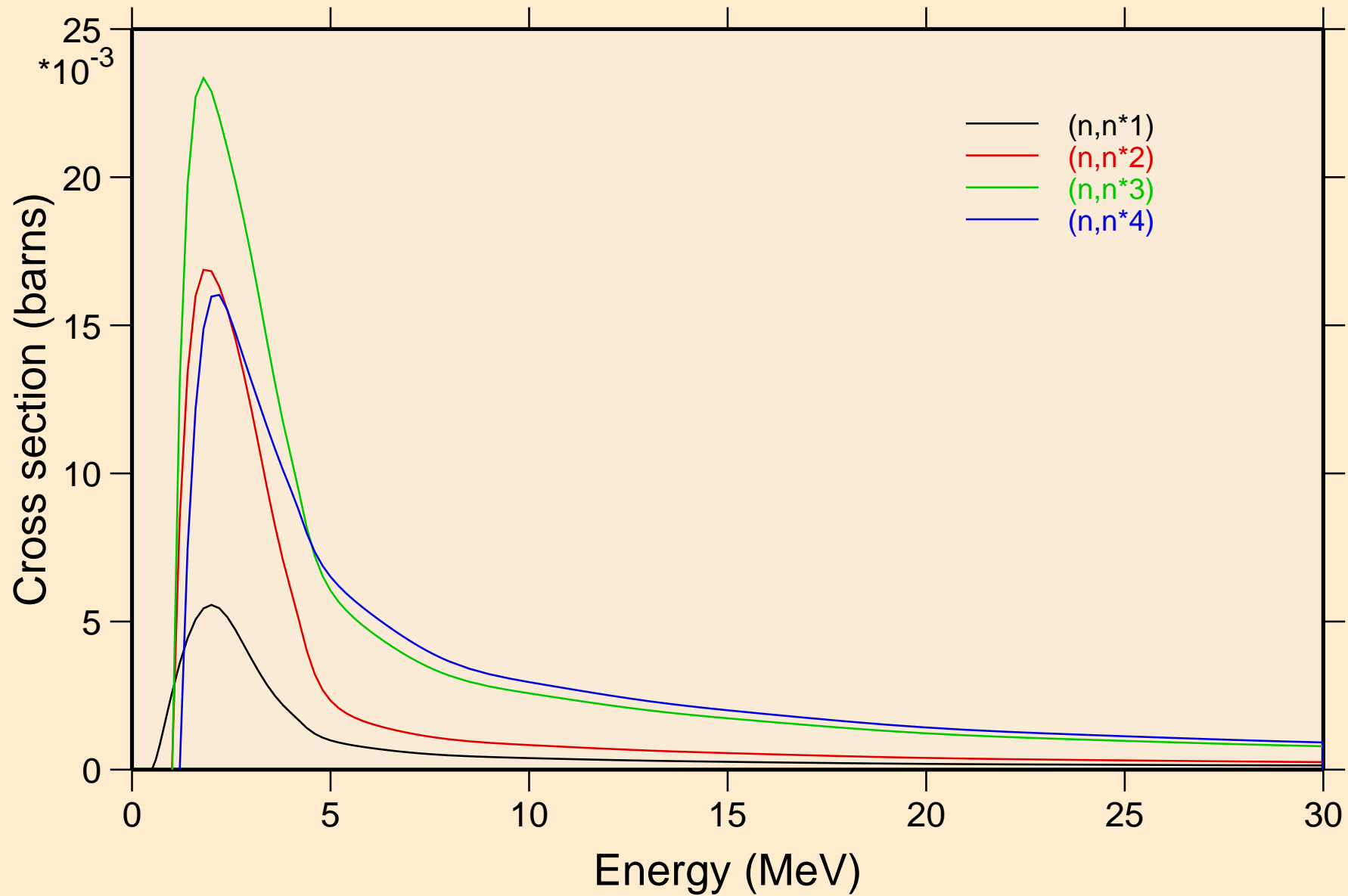
## Non-threshold reactions



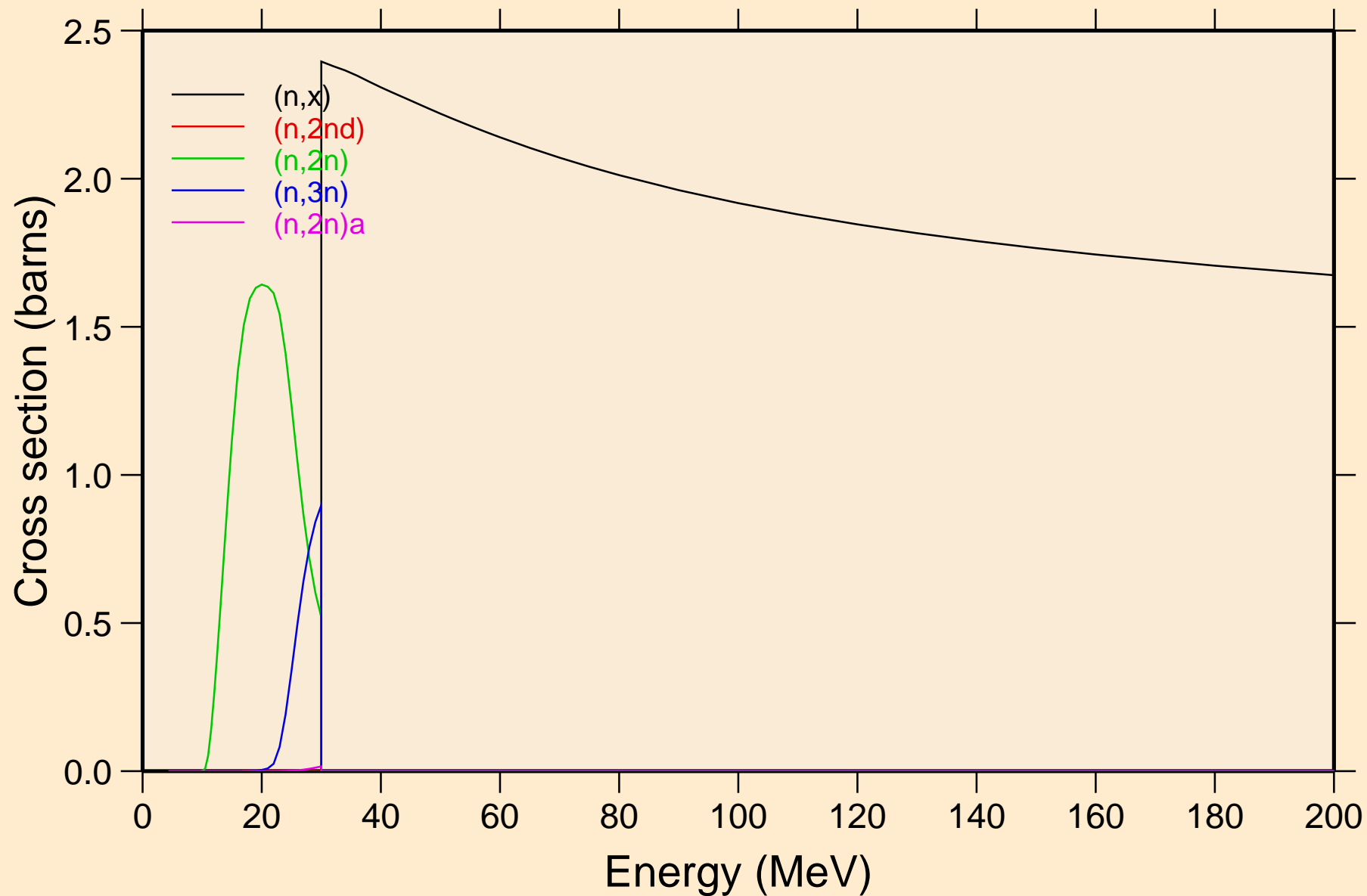
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Non-threshold reactions



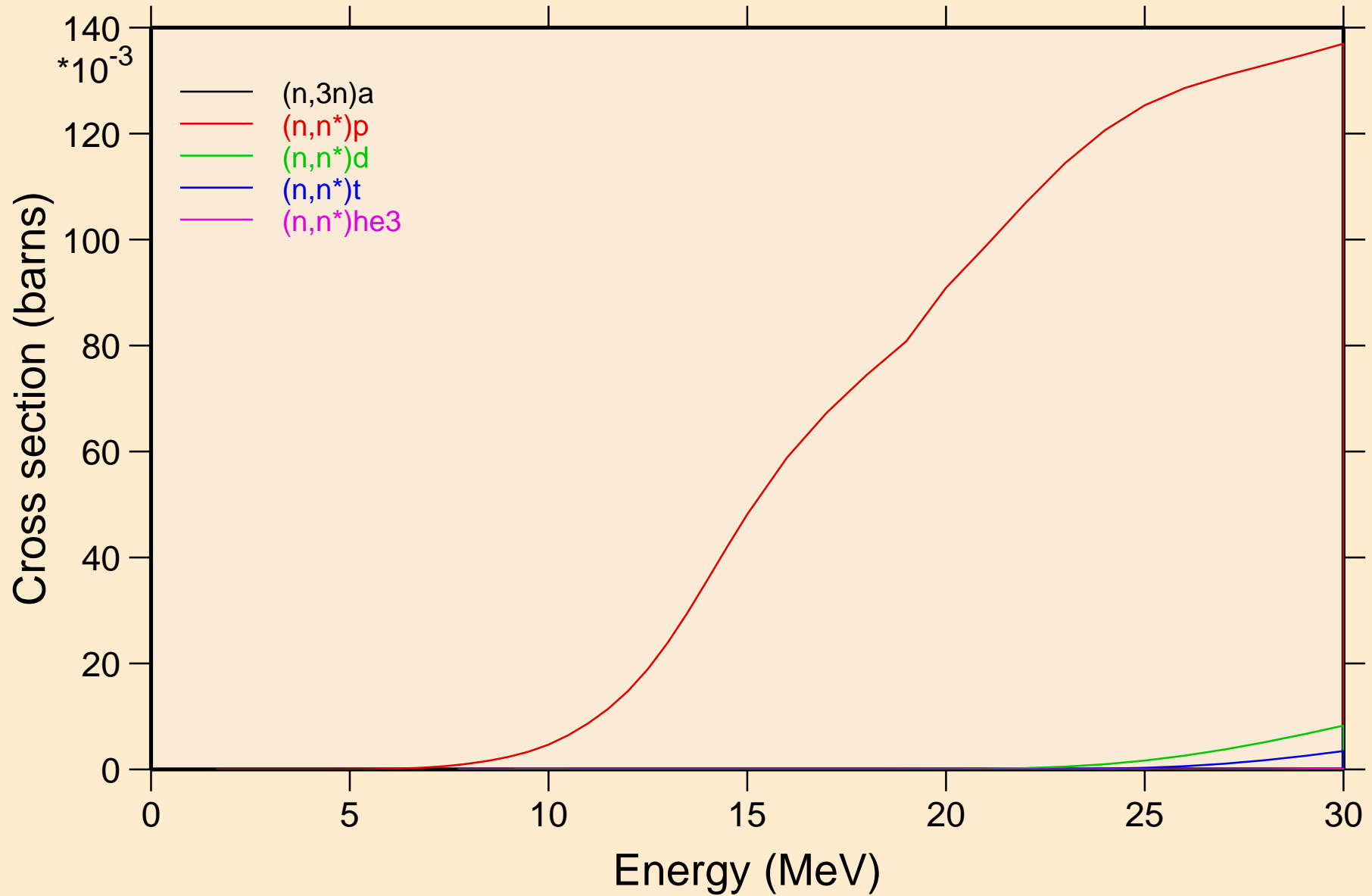
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



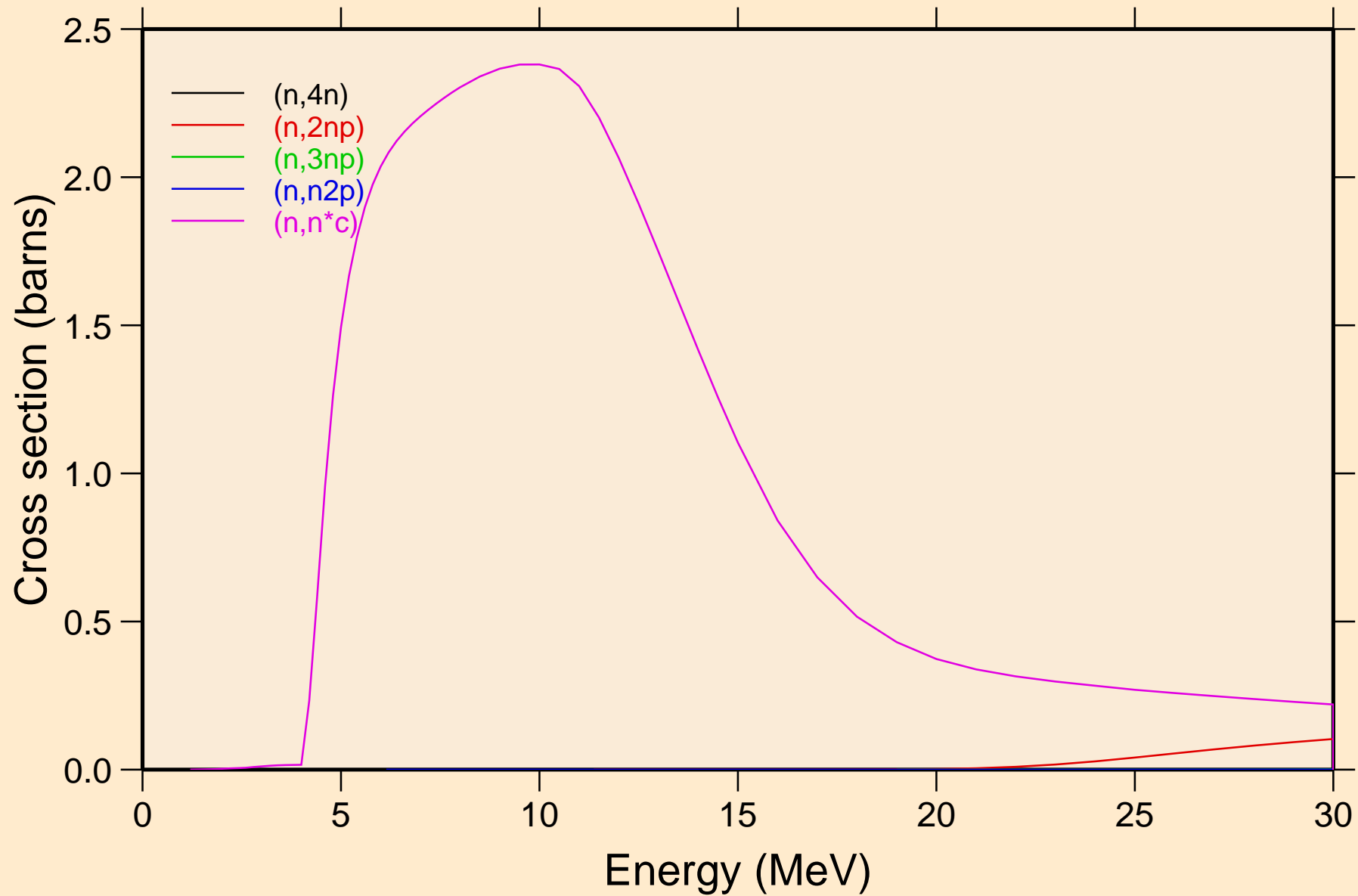
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

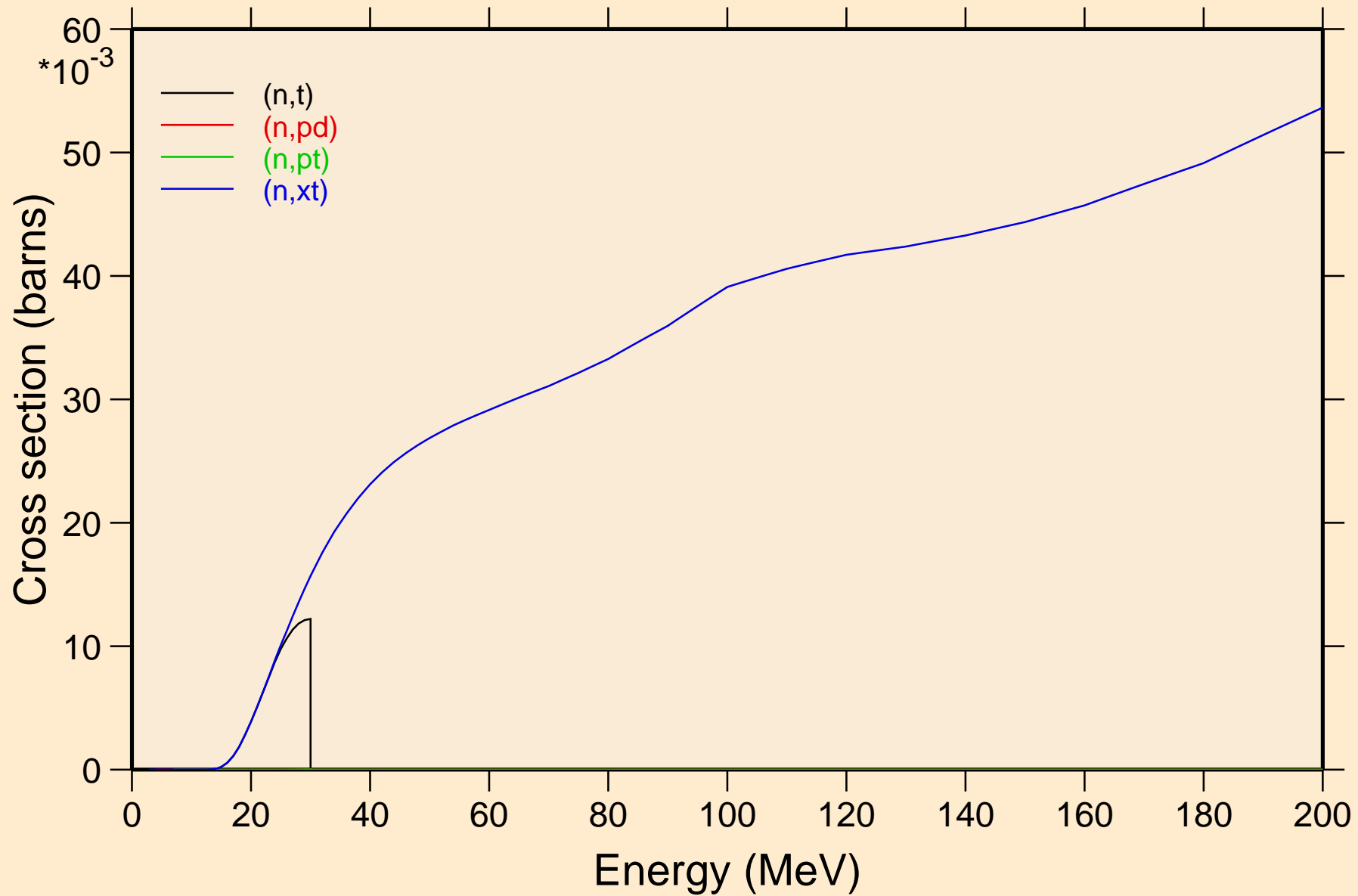


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

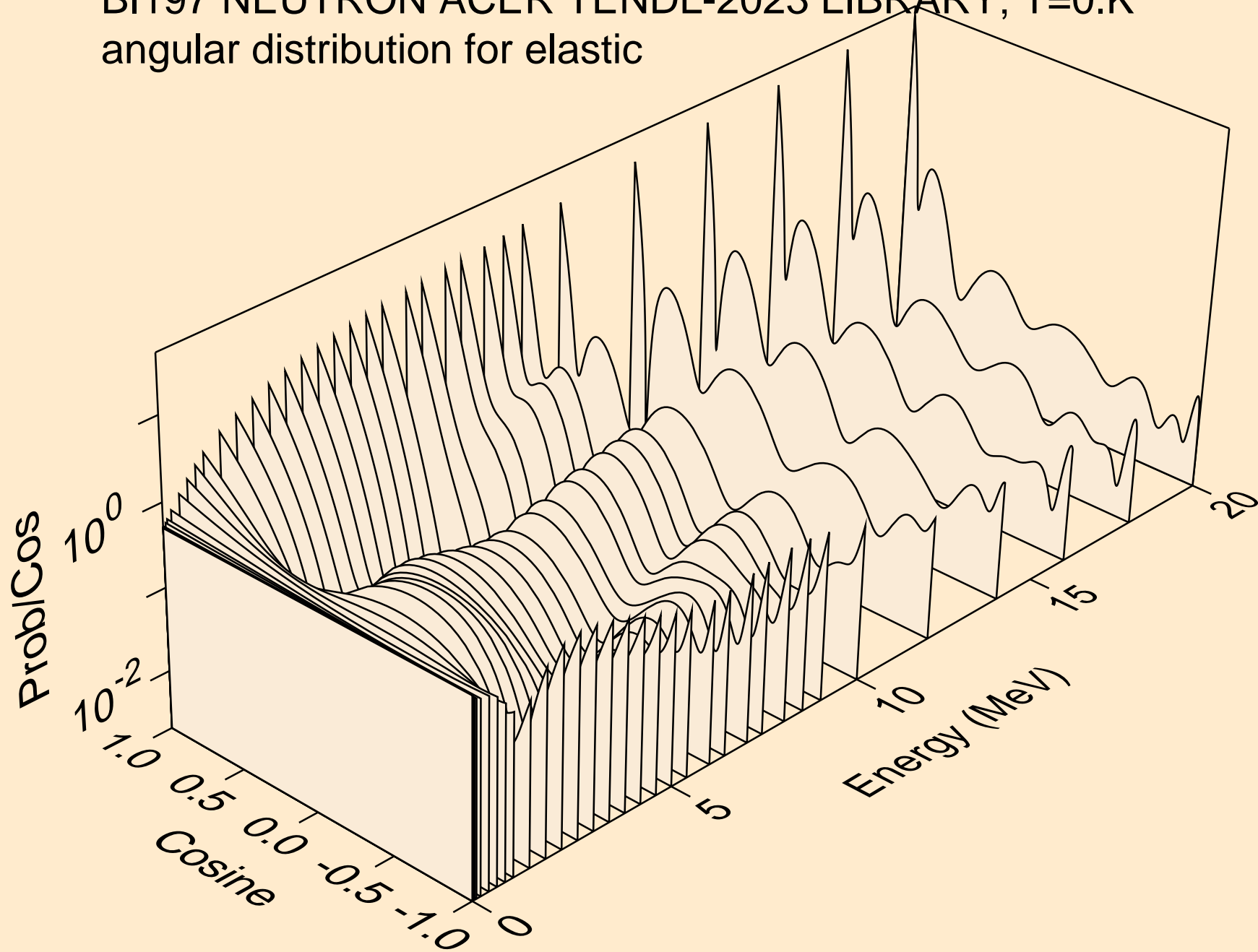




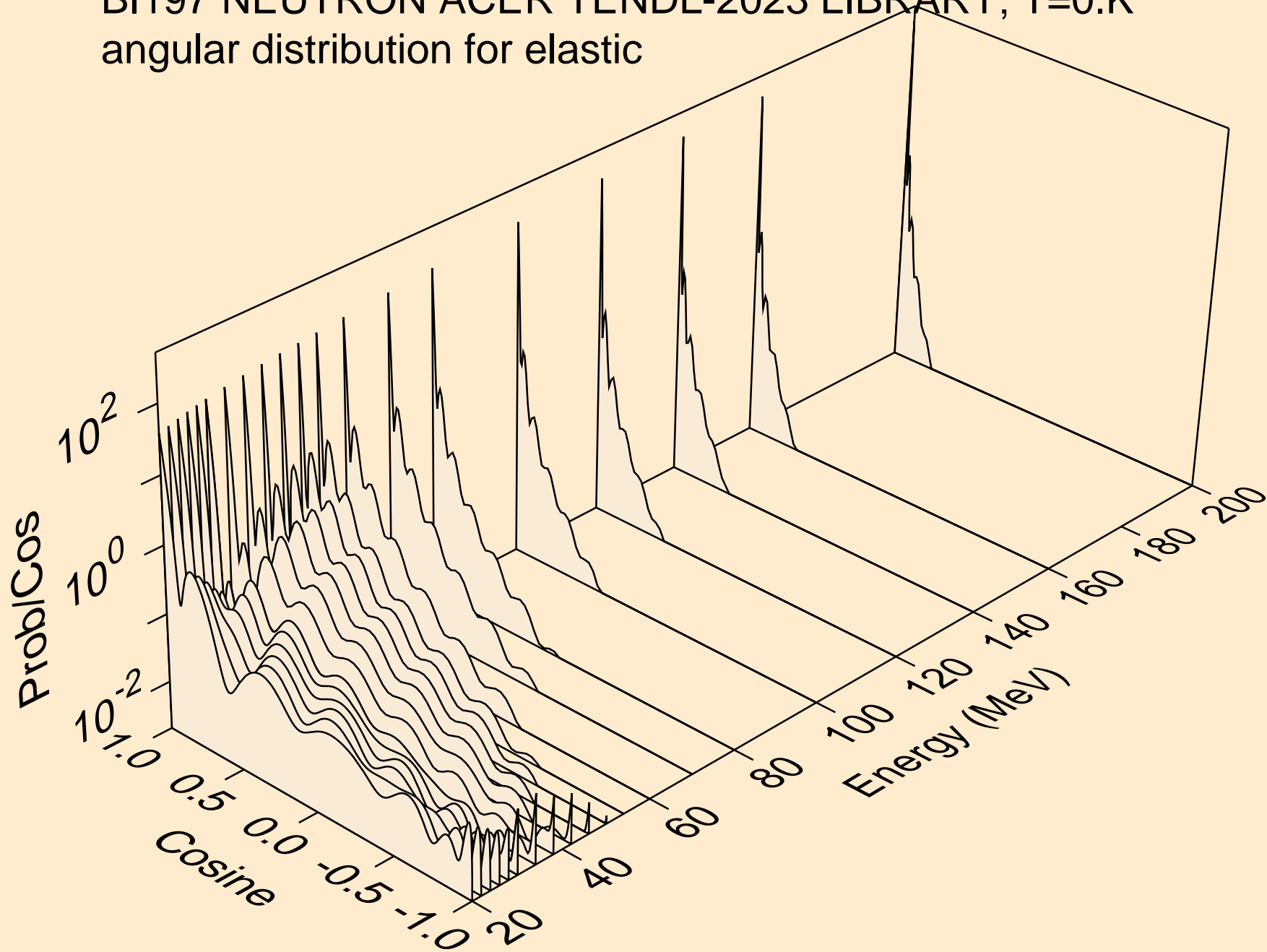
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



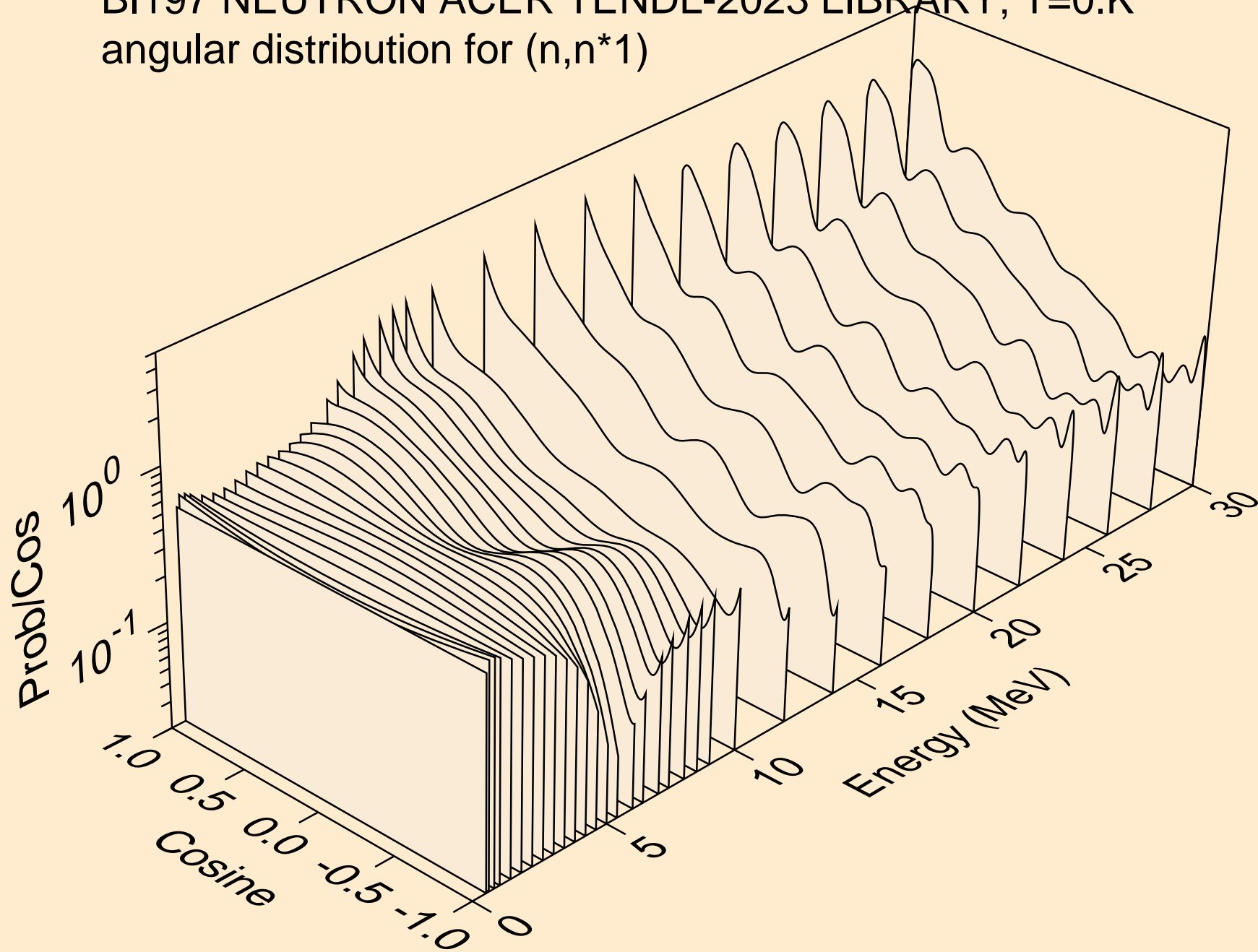
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angular distribution for elastic



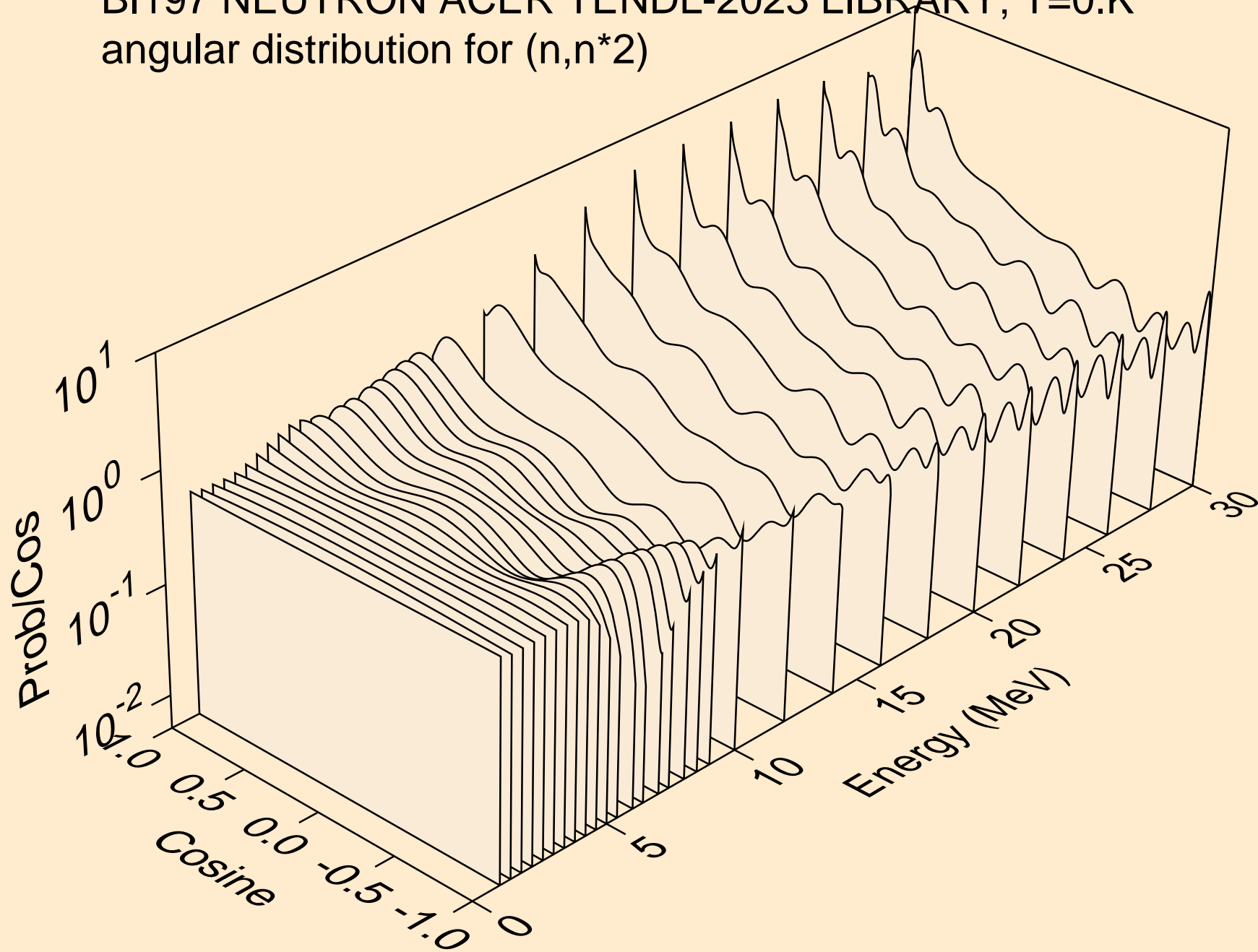
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angular distribution for elastic



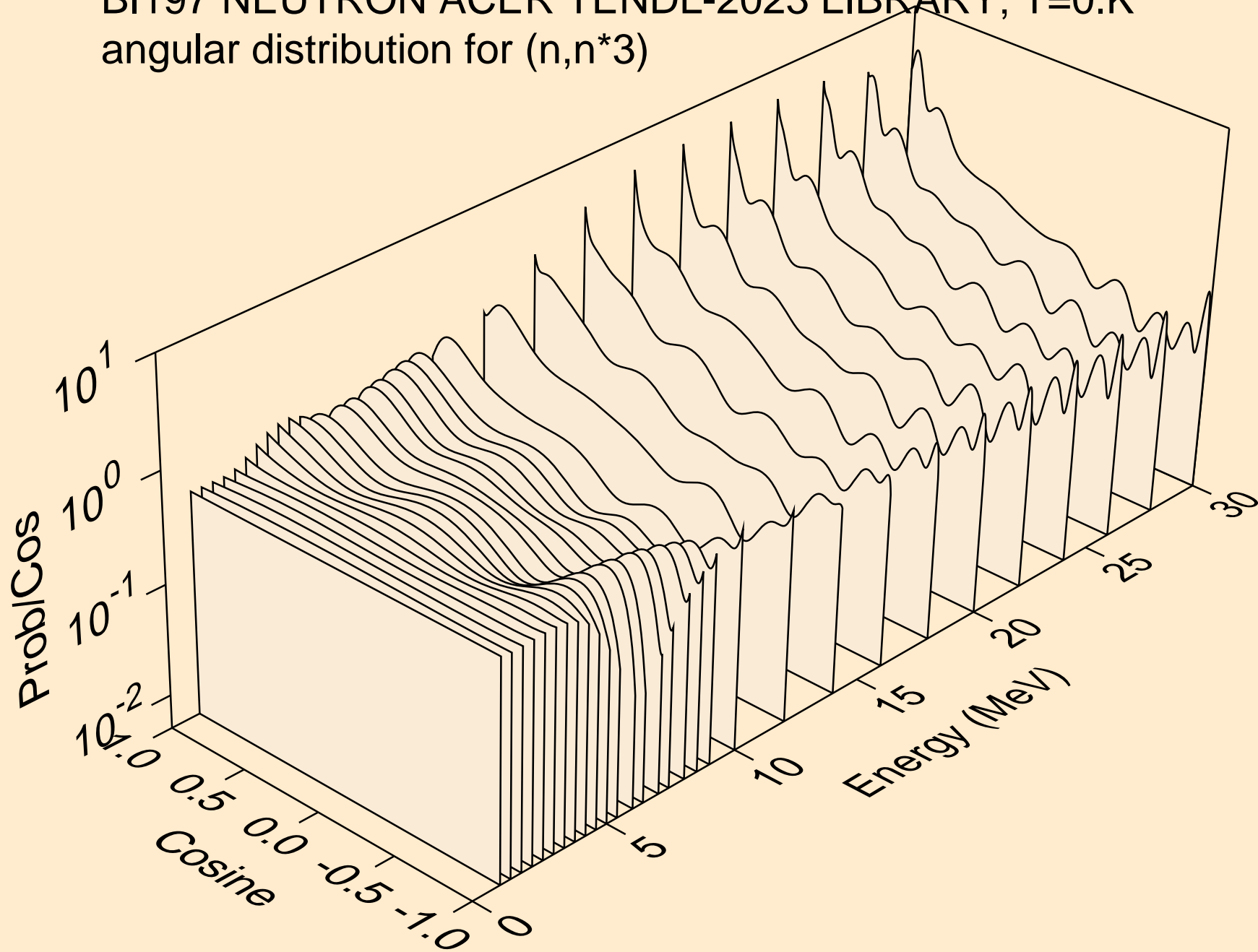
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



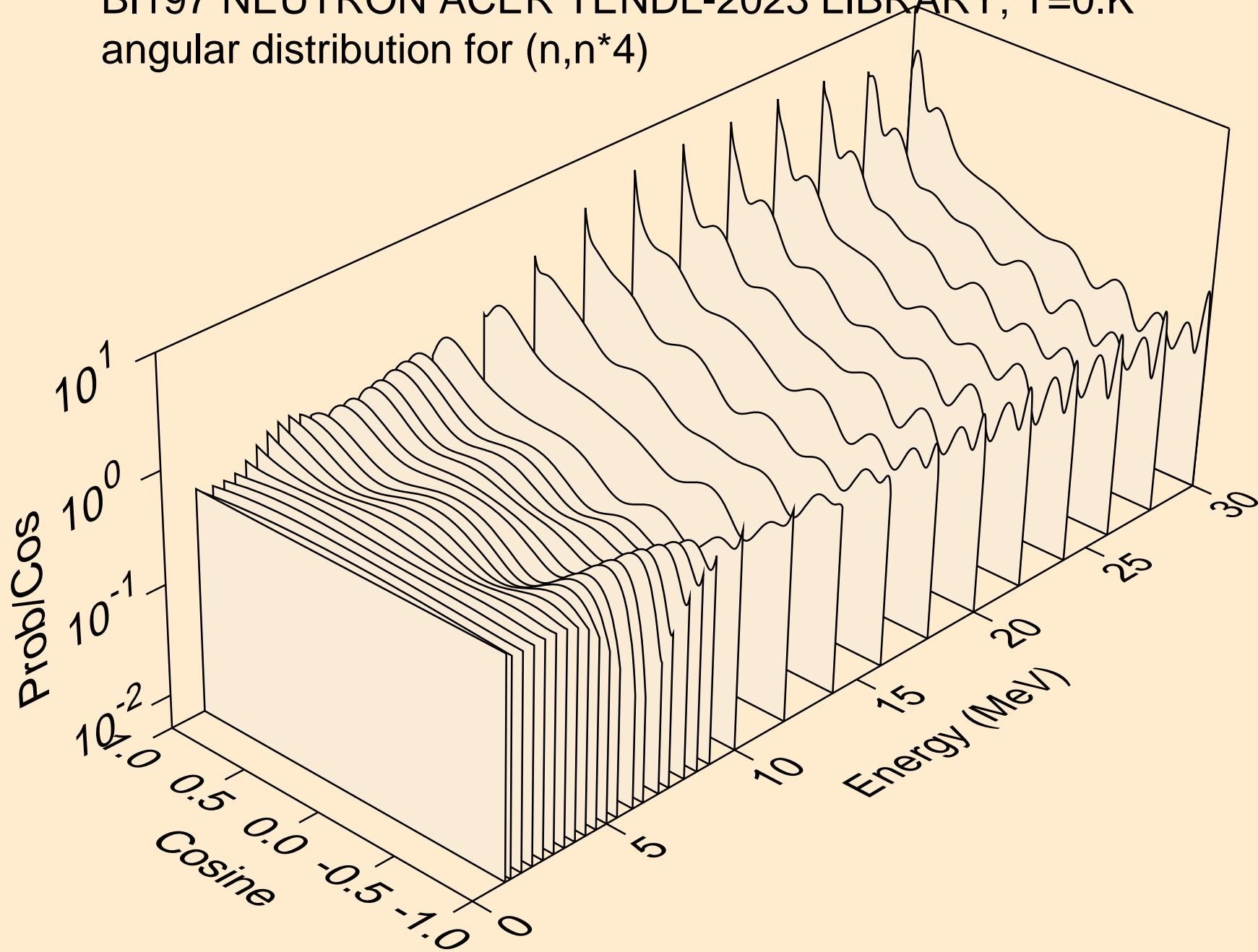
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angular distribution for (n,n\*2)



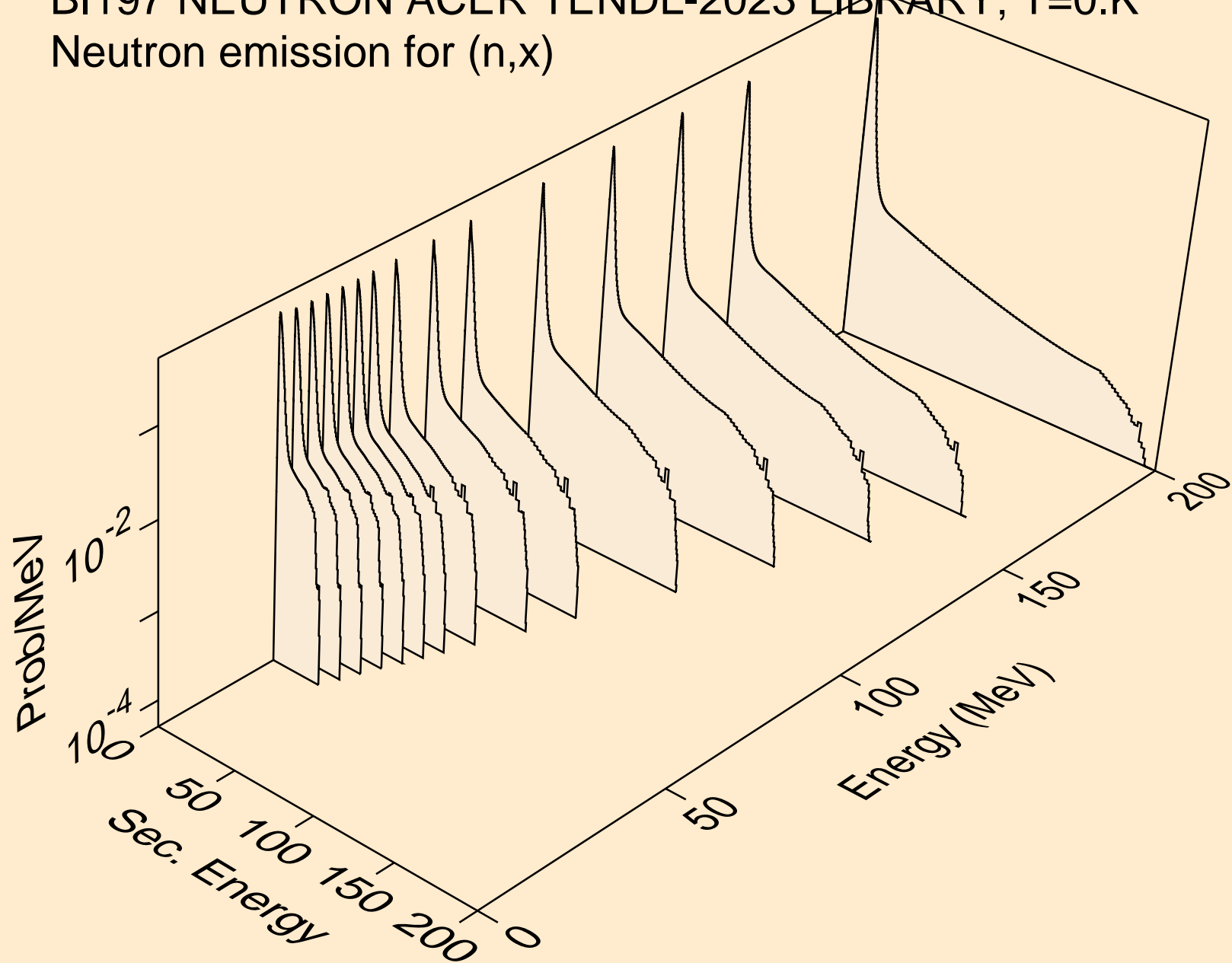
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)

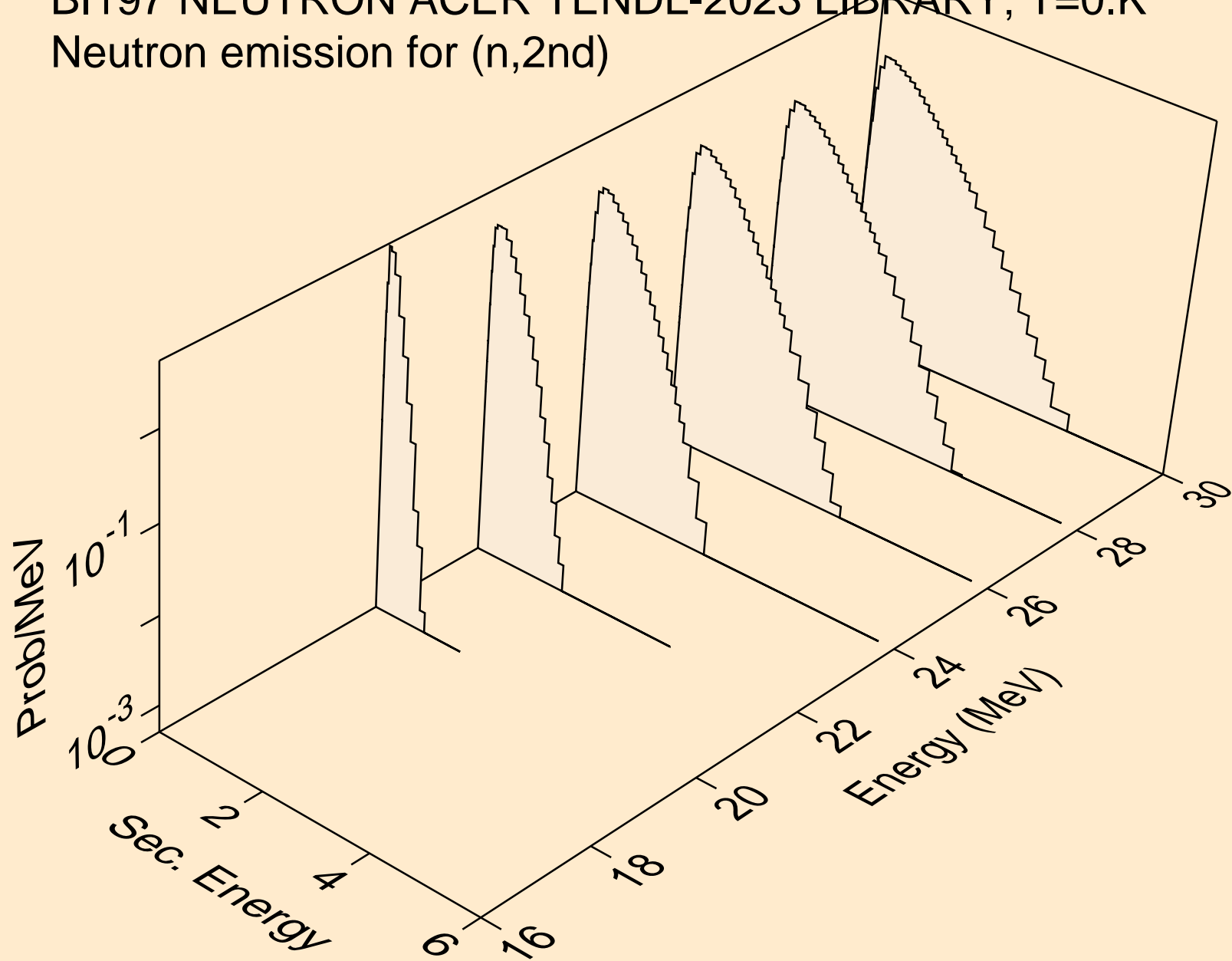


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)

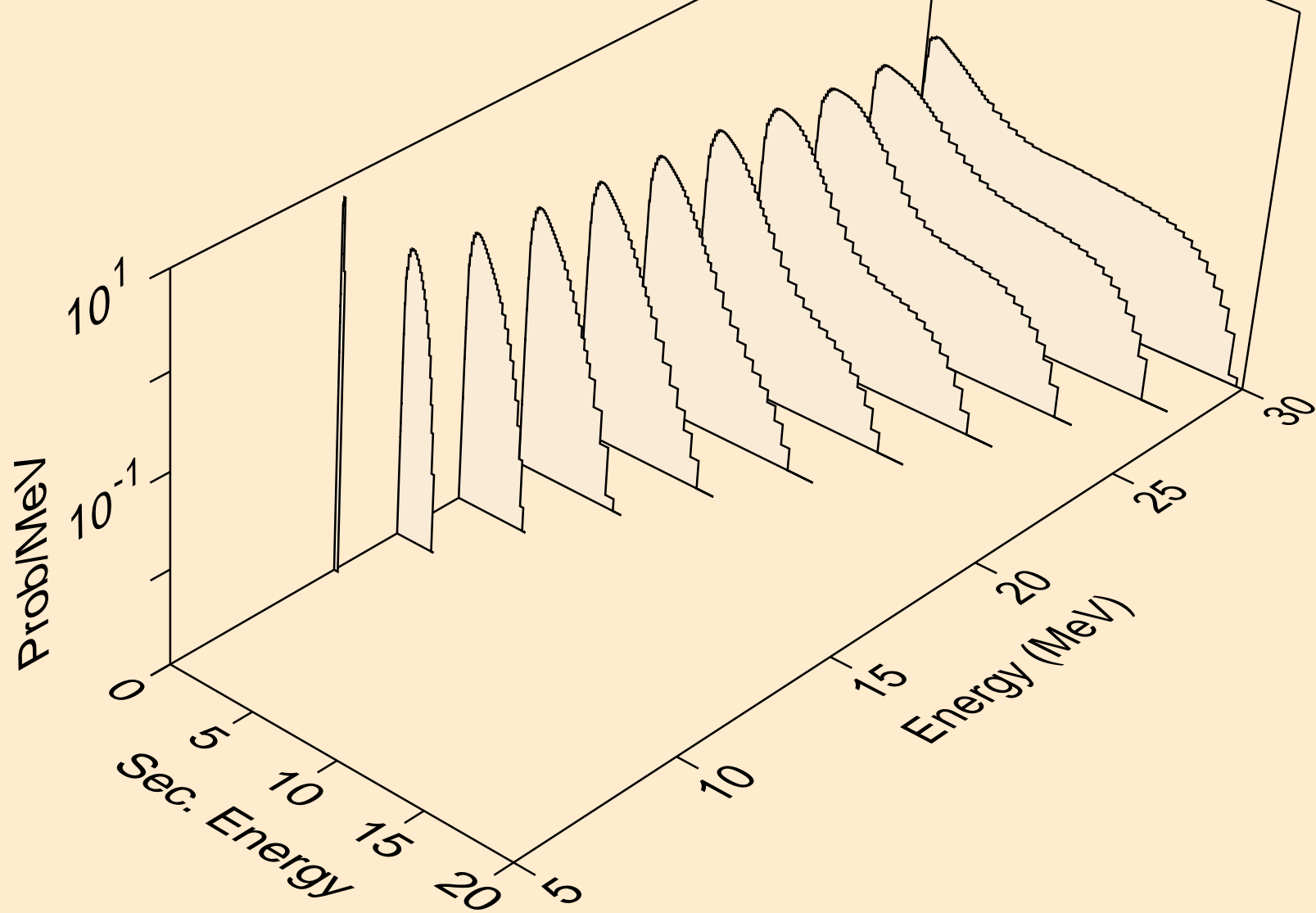




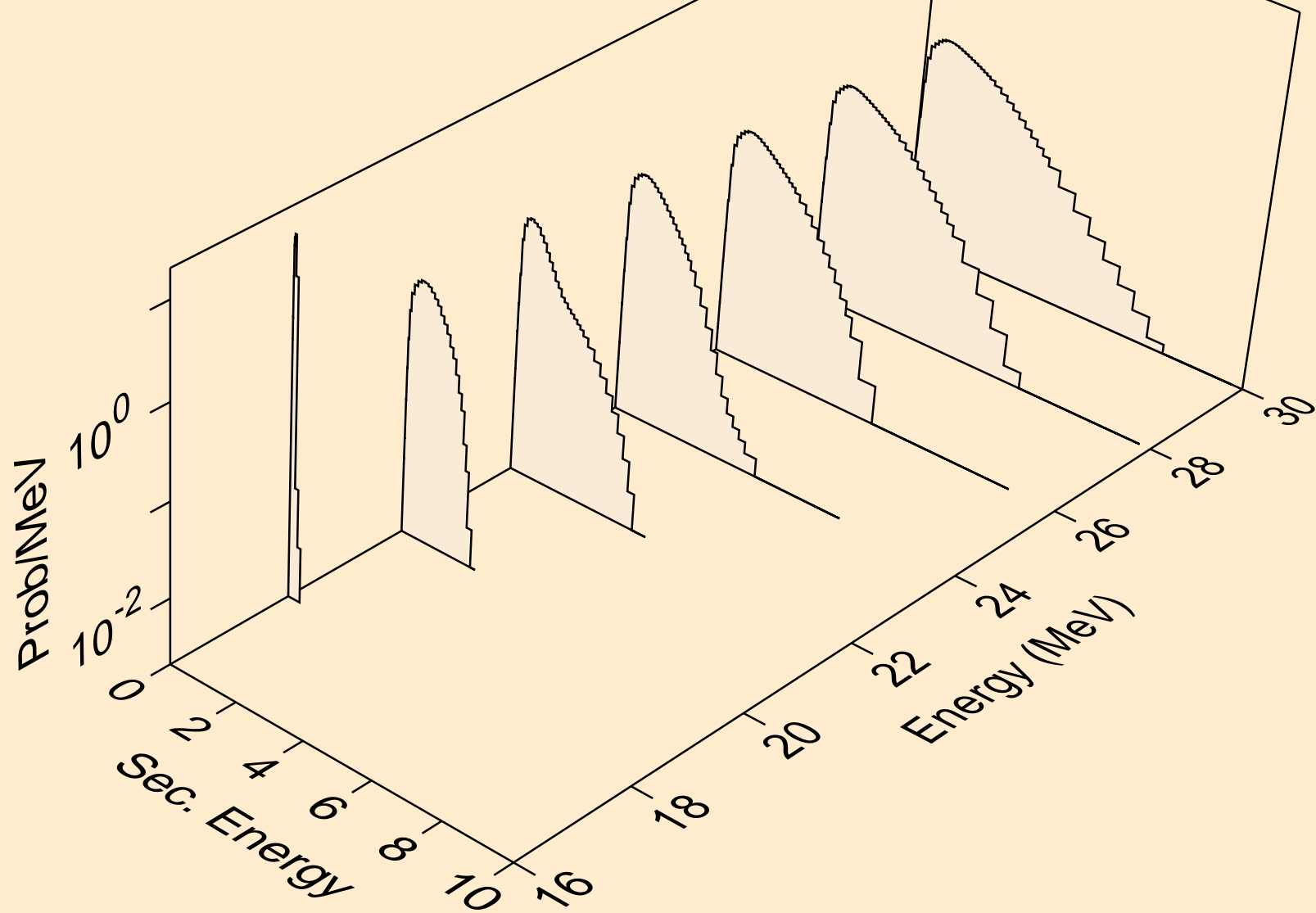
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Neutron emission for (n,2nd)



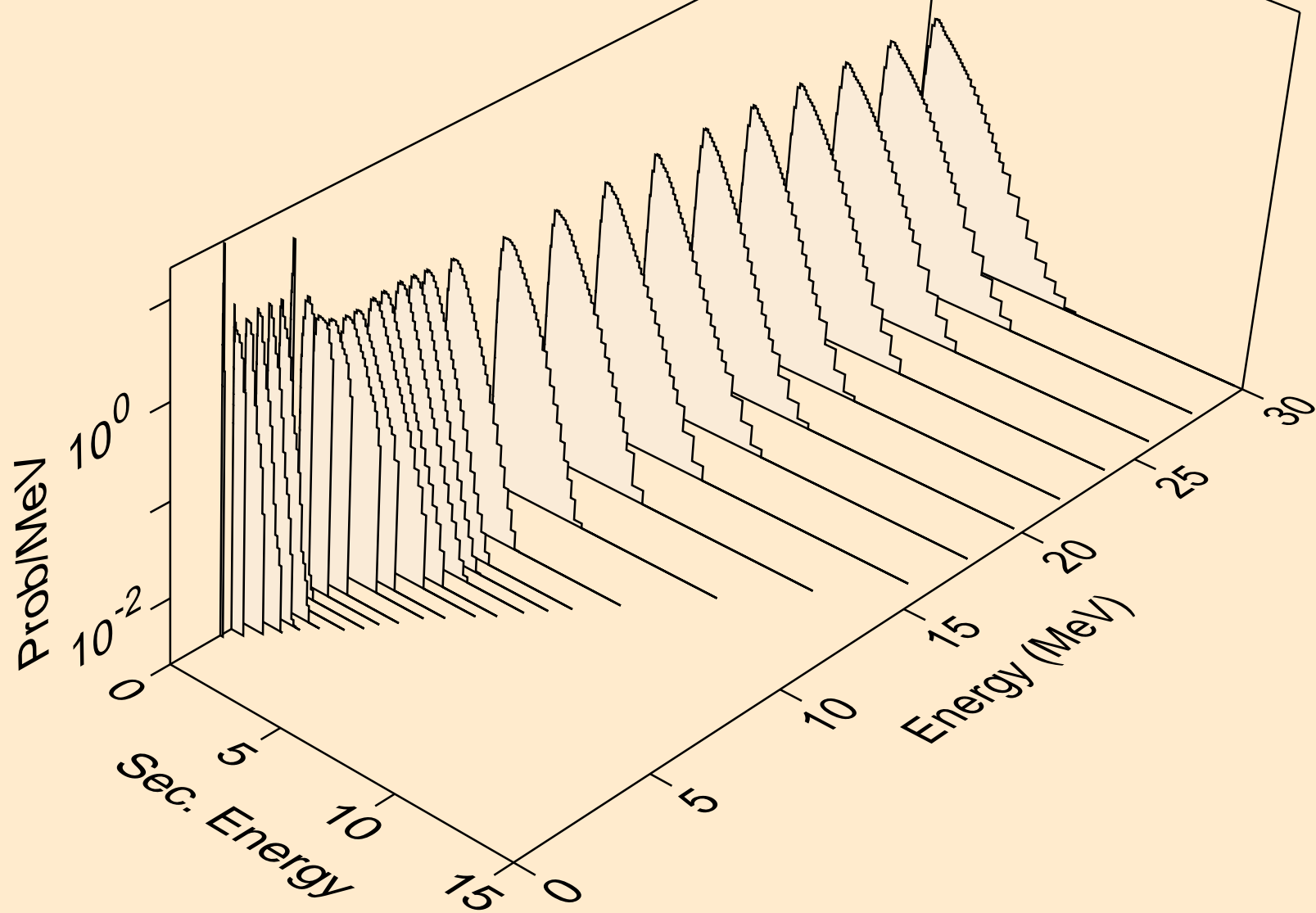
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



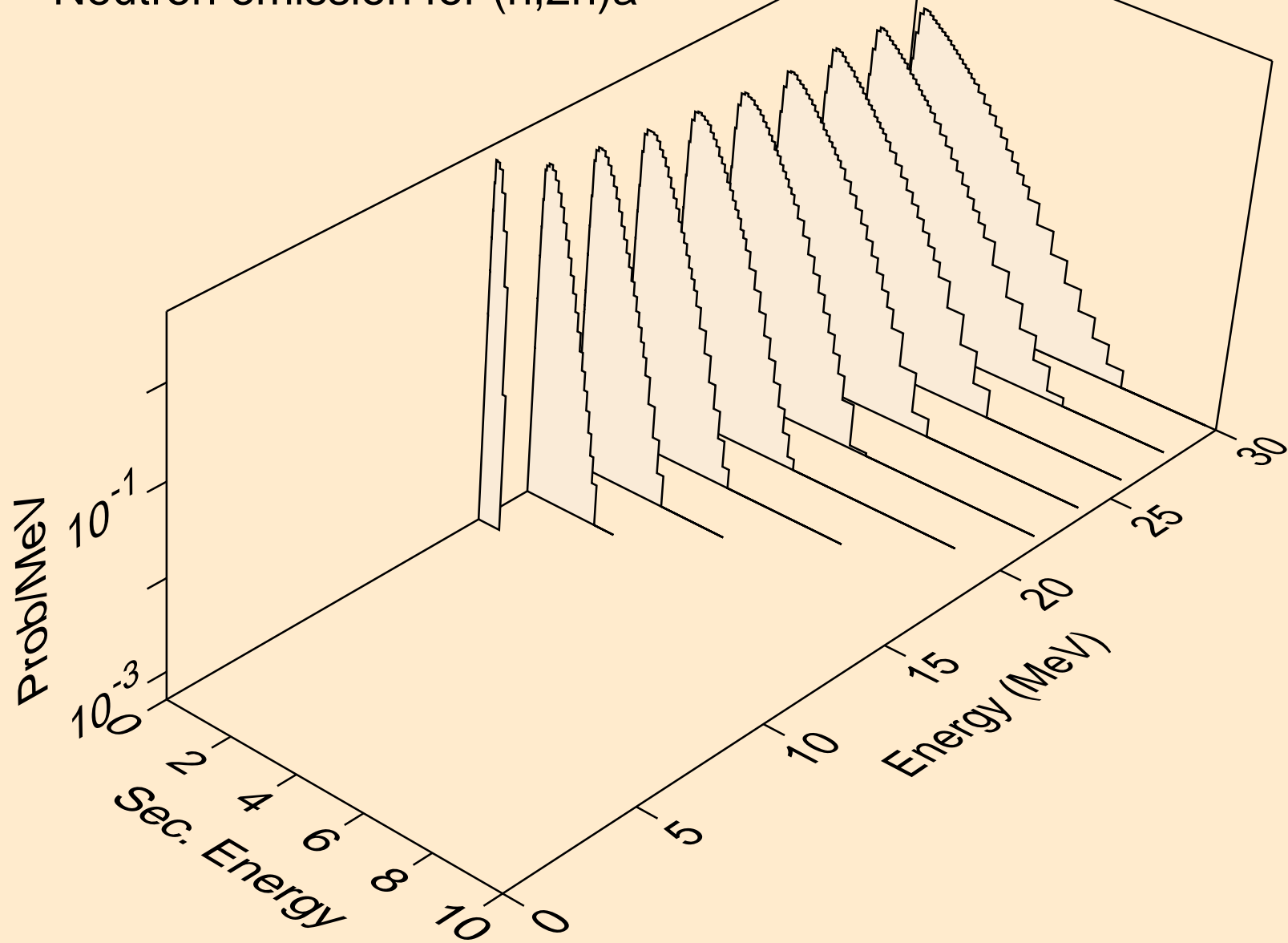
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Neutron emission for (n,3n)



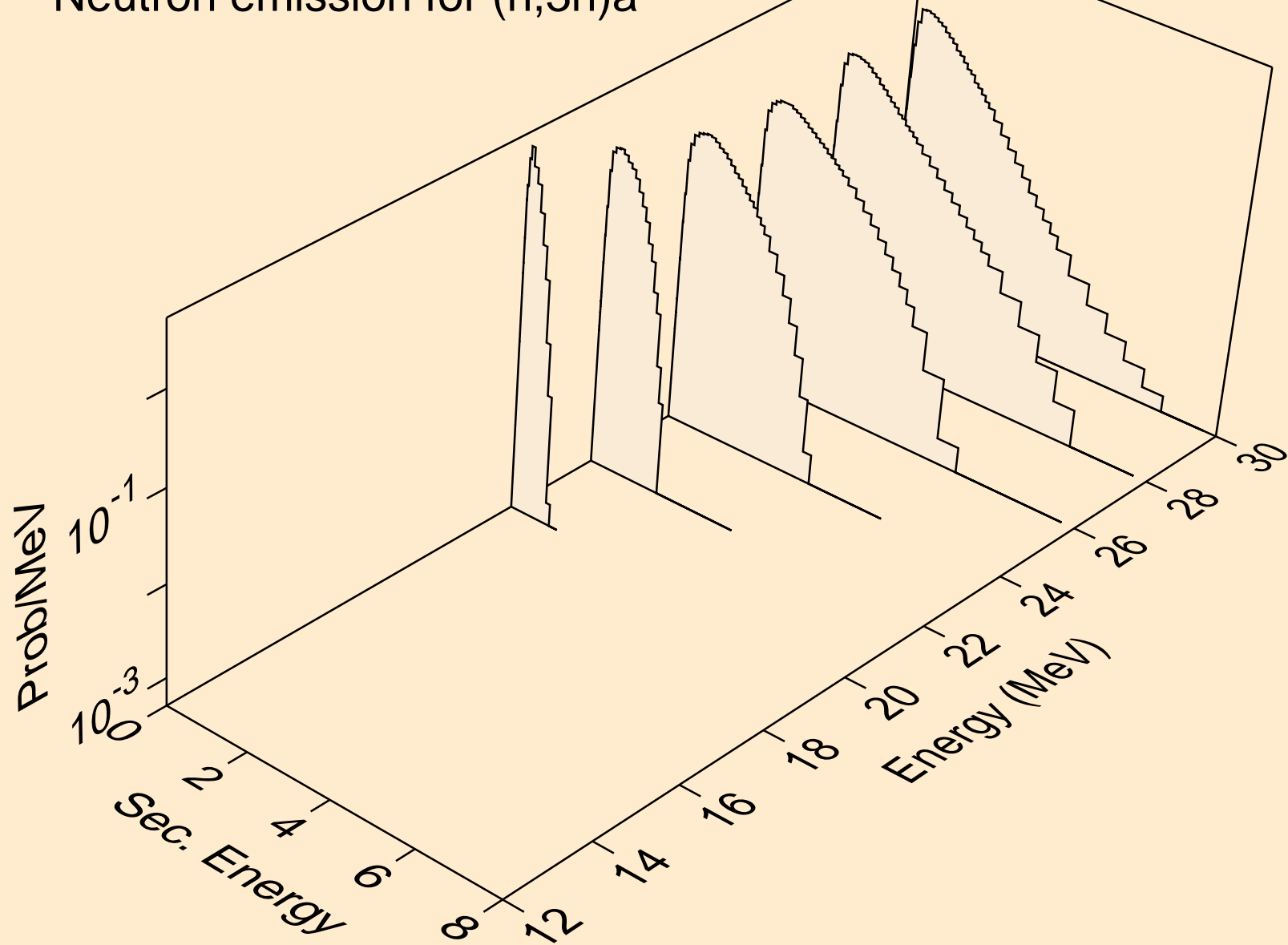
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



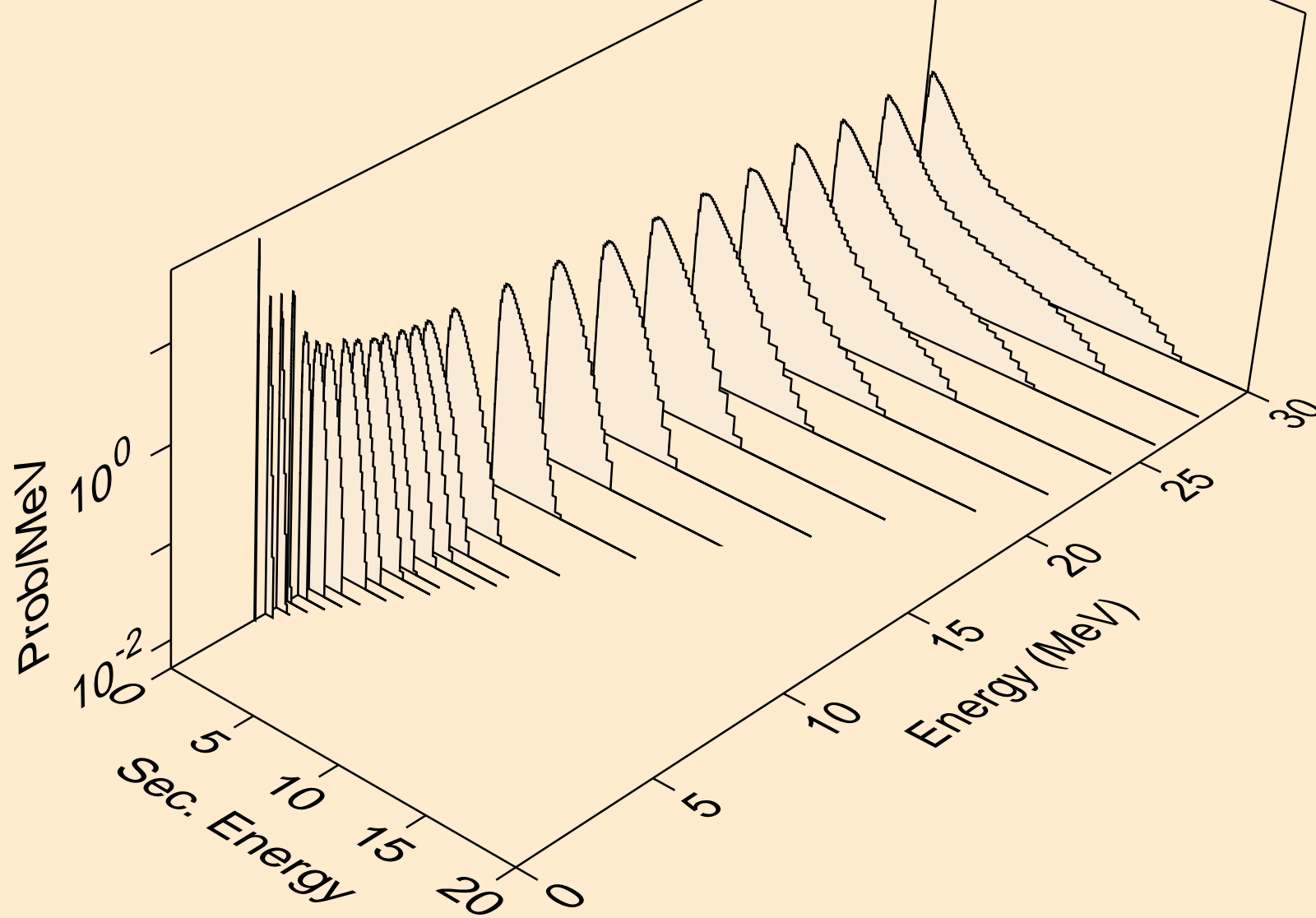
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Neutron emission for (n,2n)a



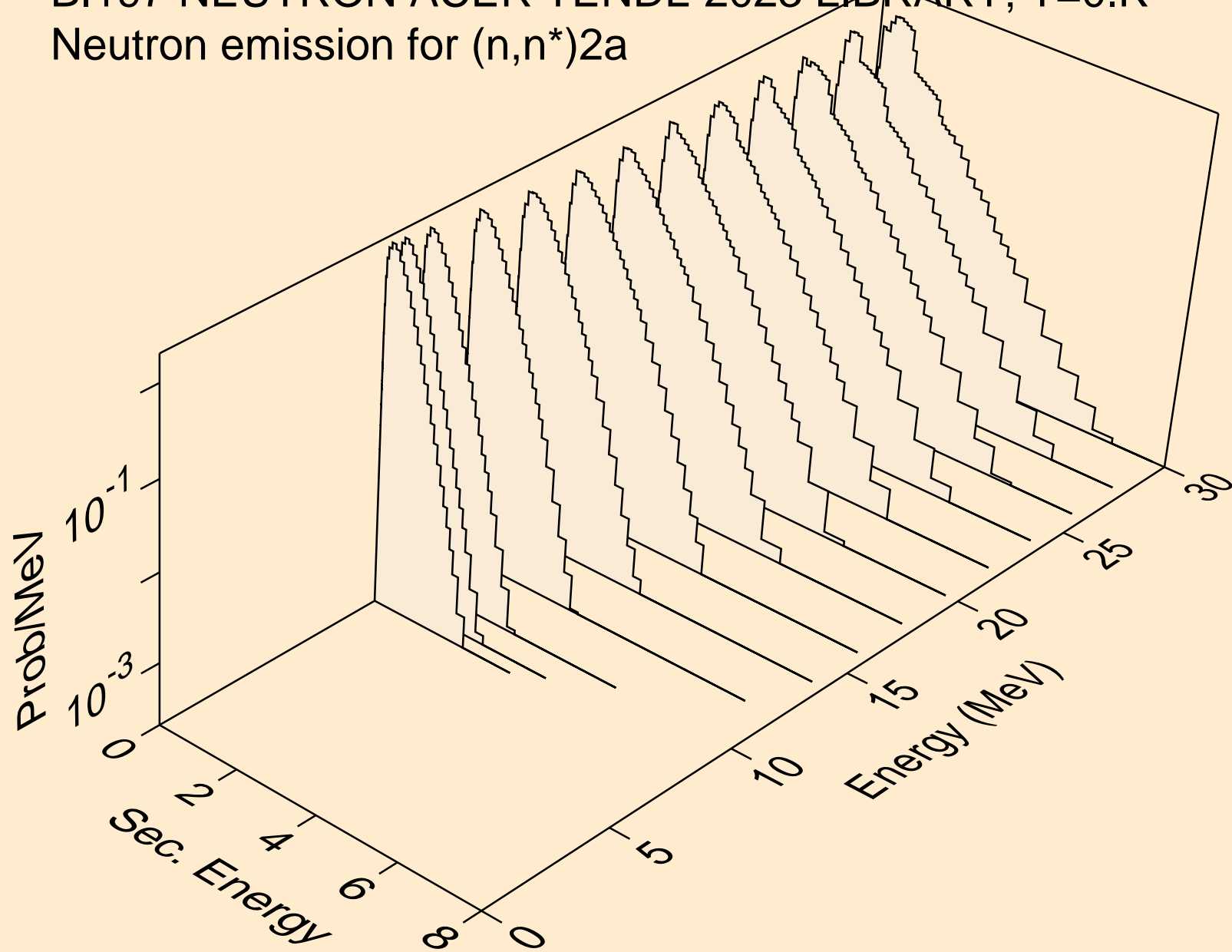
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p

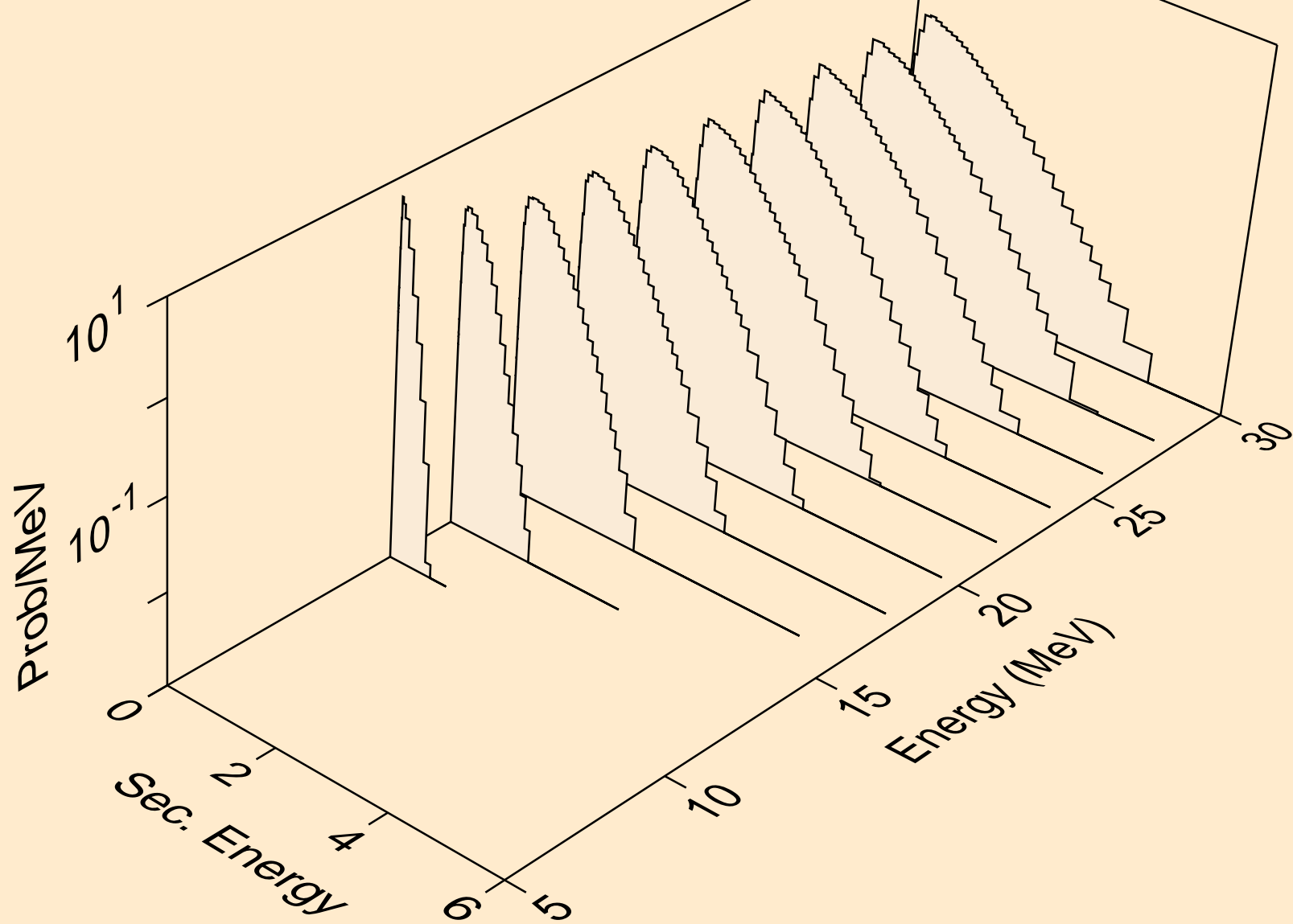


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a

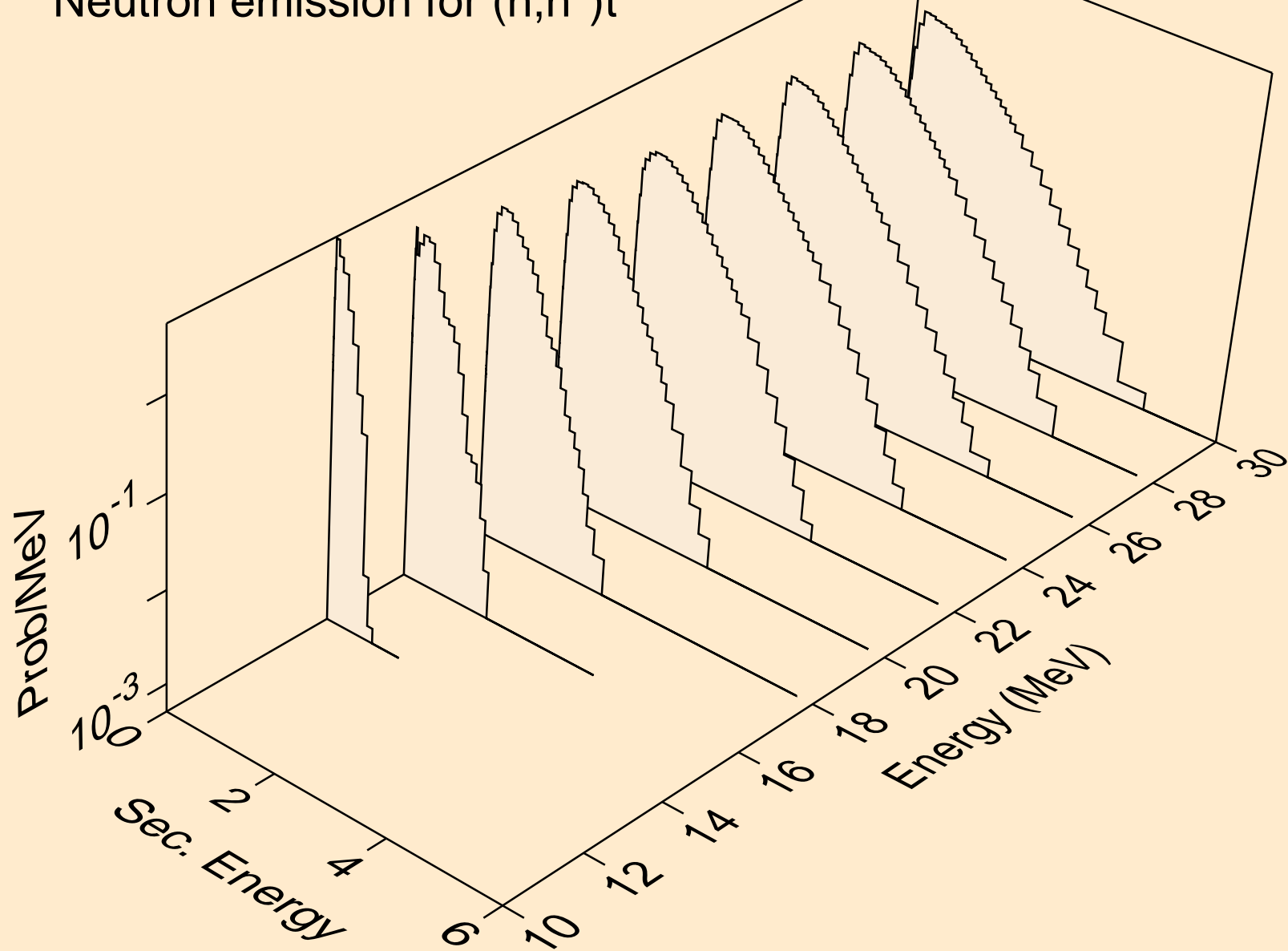




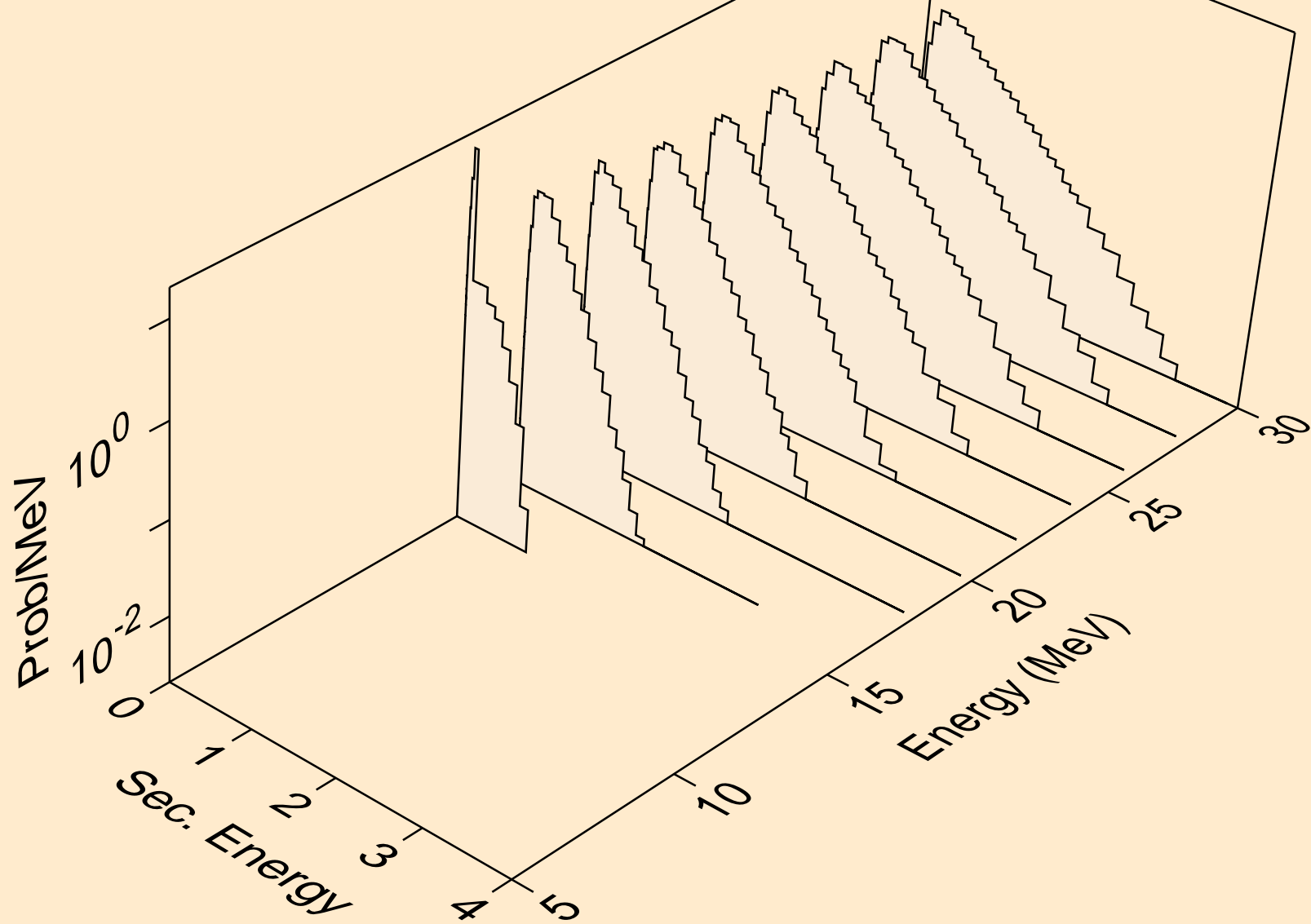
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



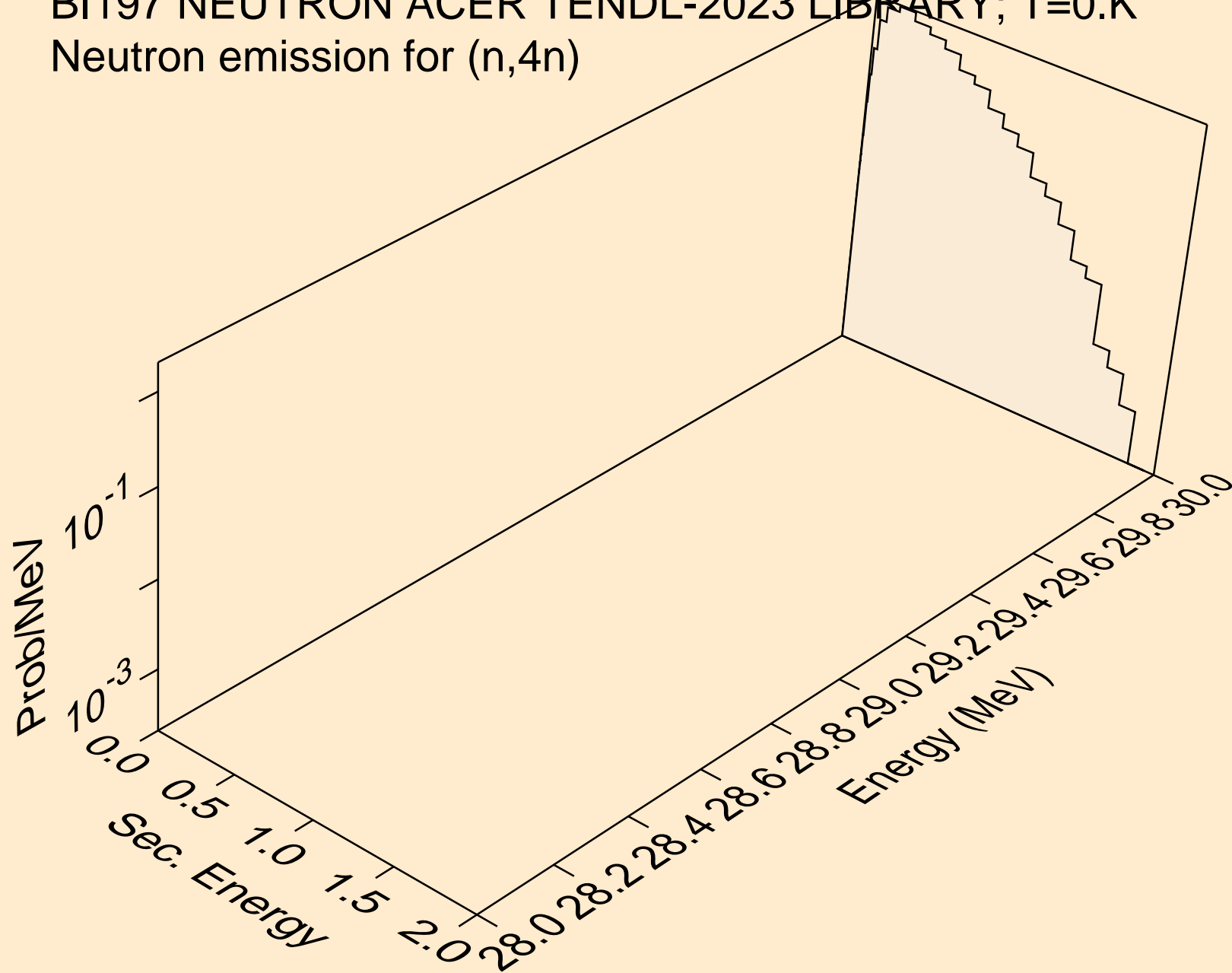
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



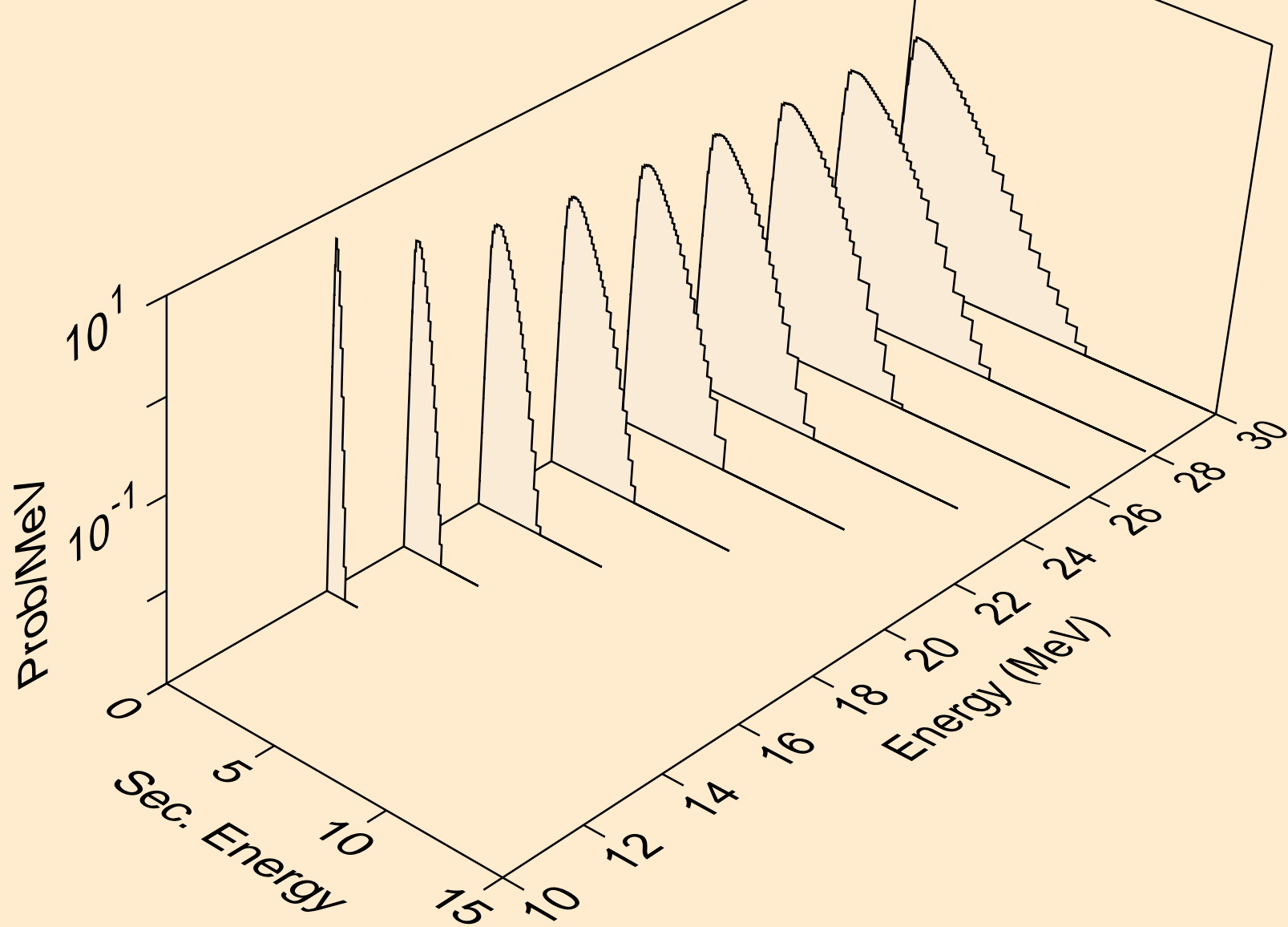
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



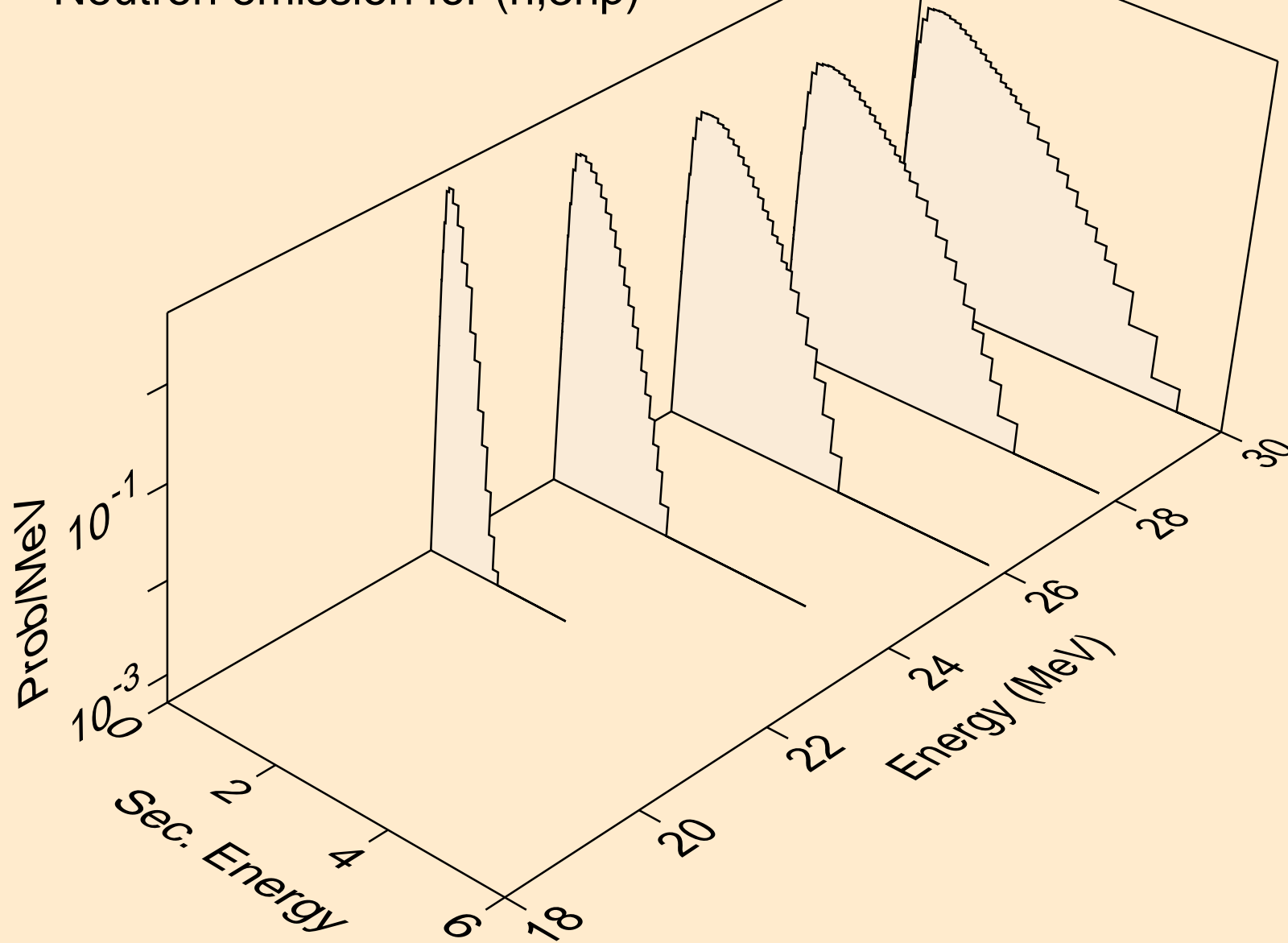
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Neutron emission for (n,4n)



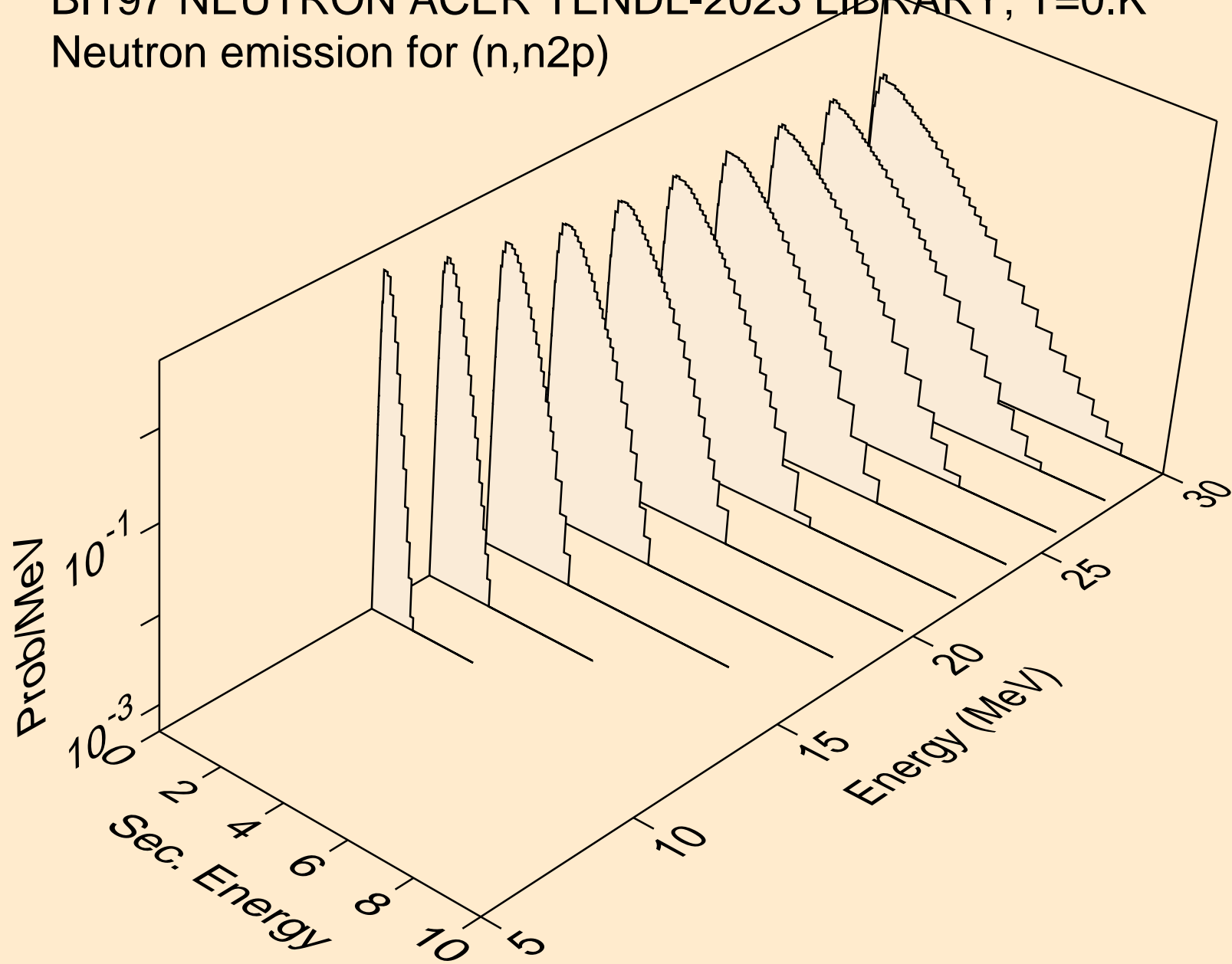
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Neutron emission for (n,2np)



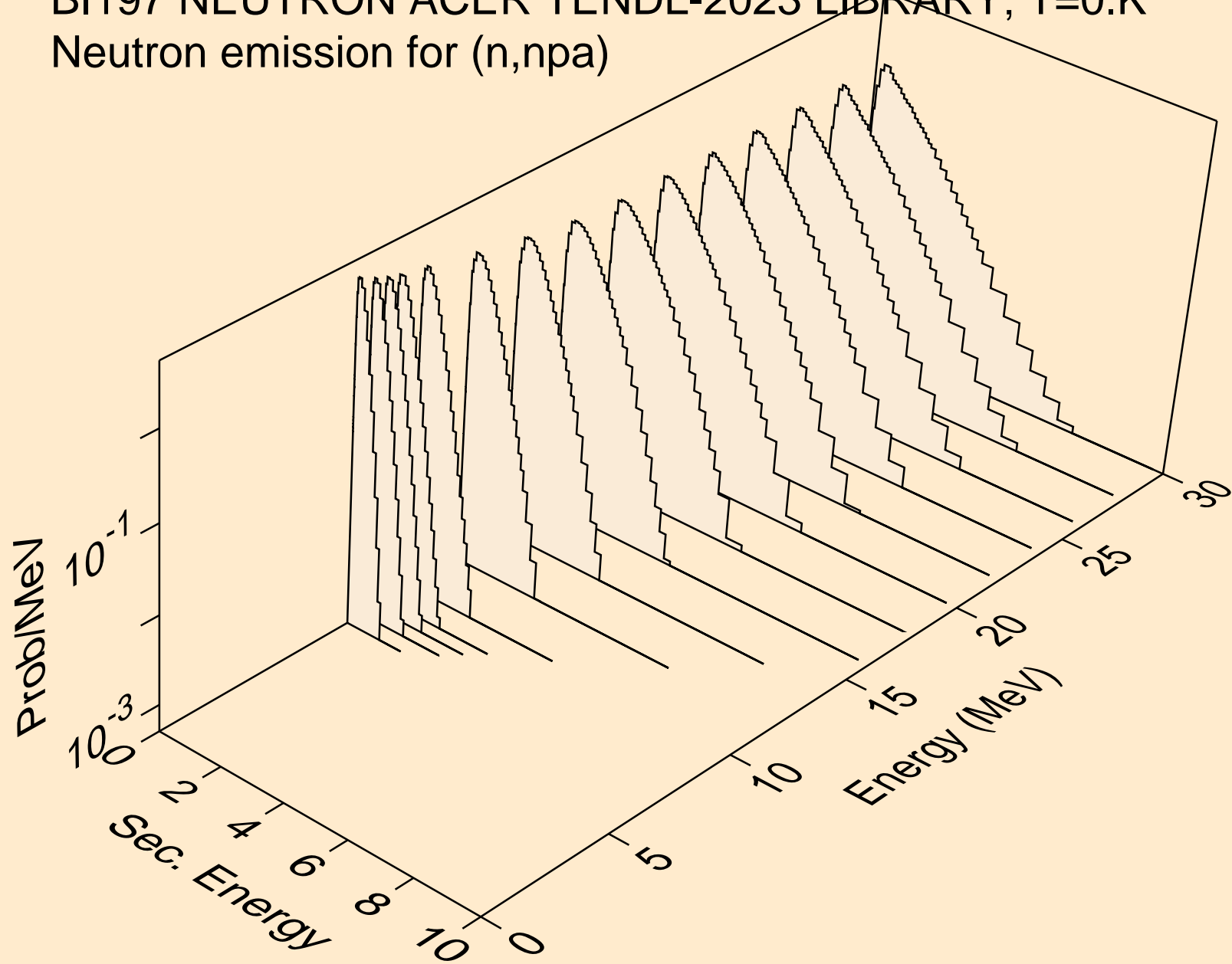
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

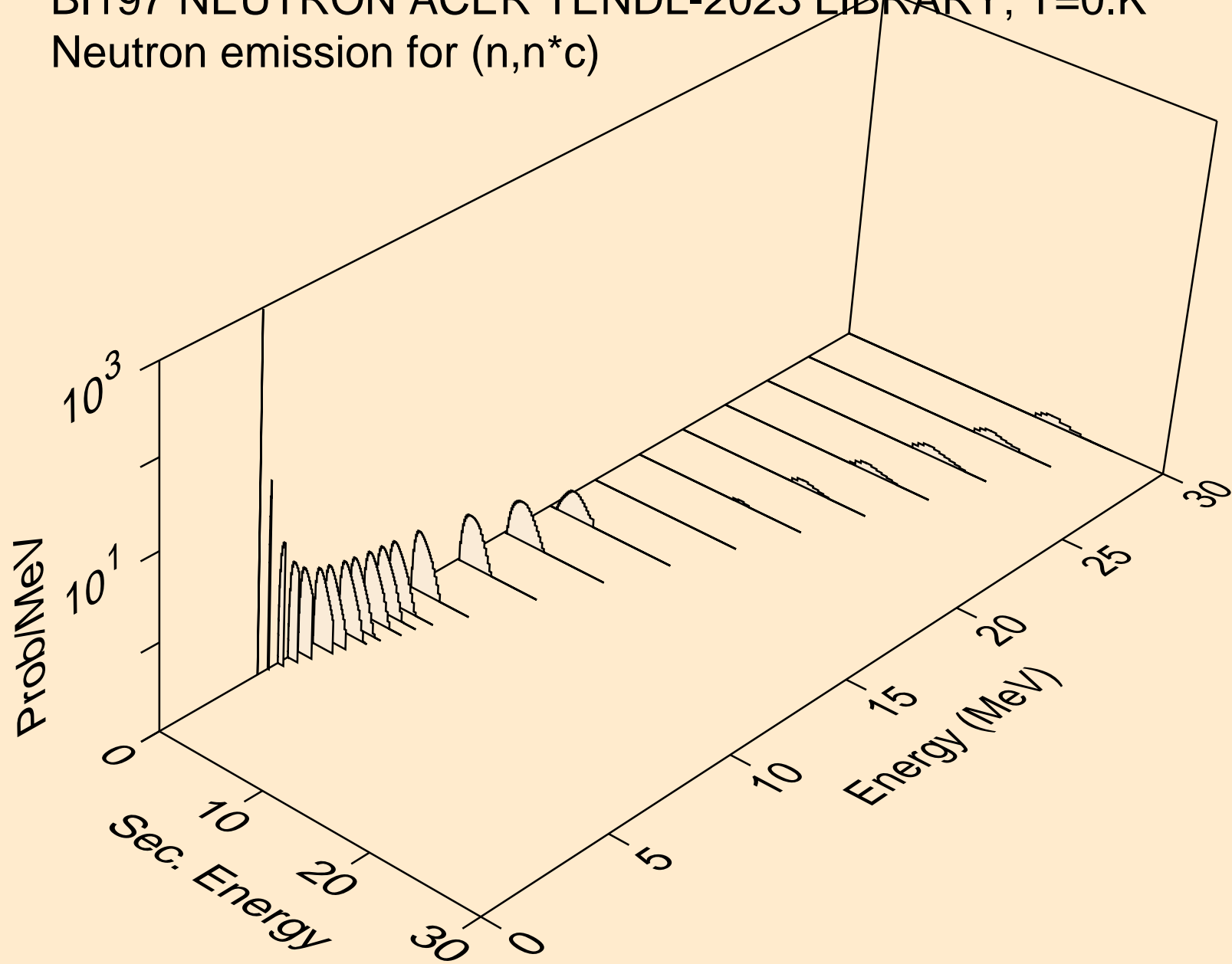


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)

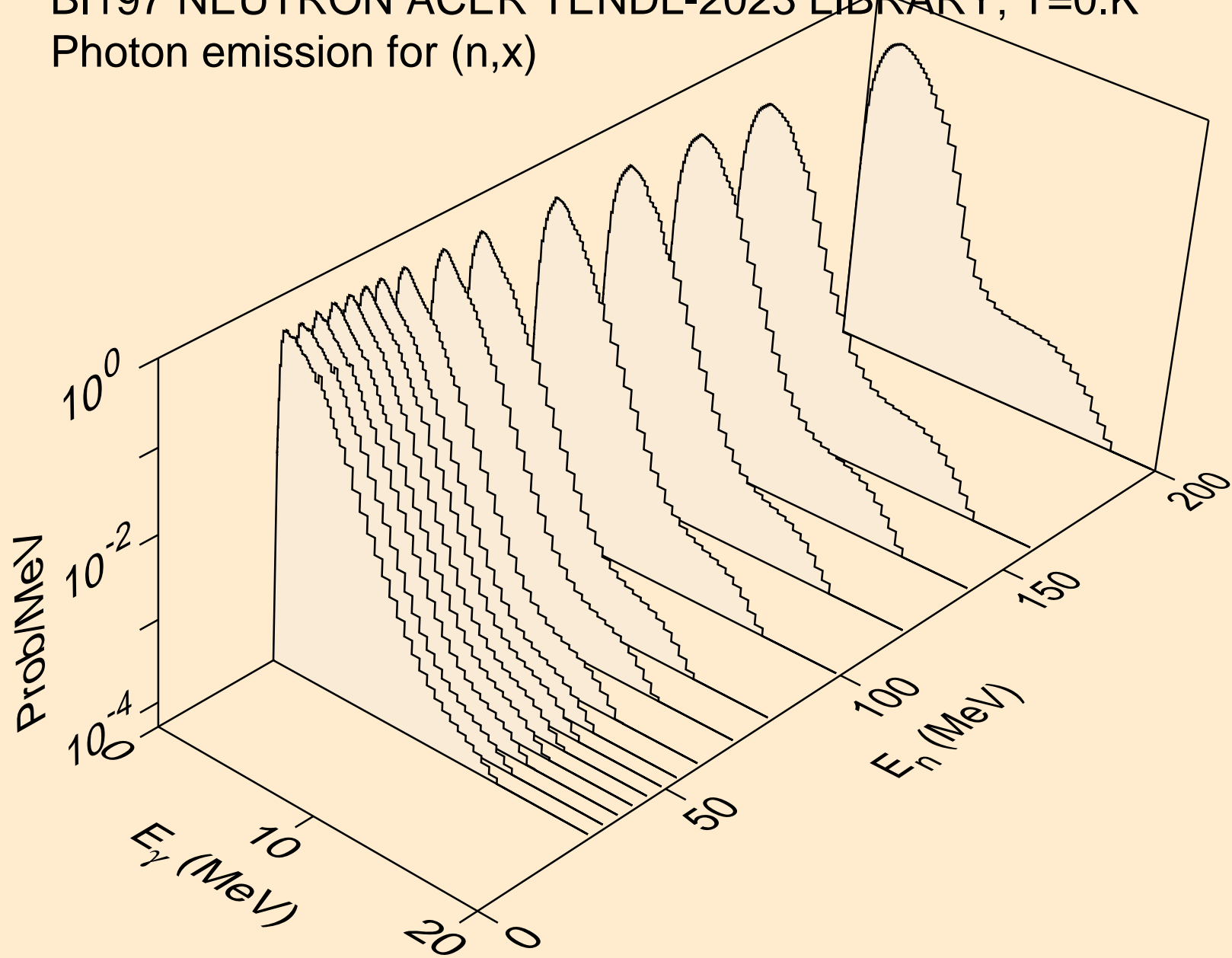




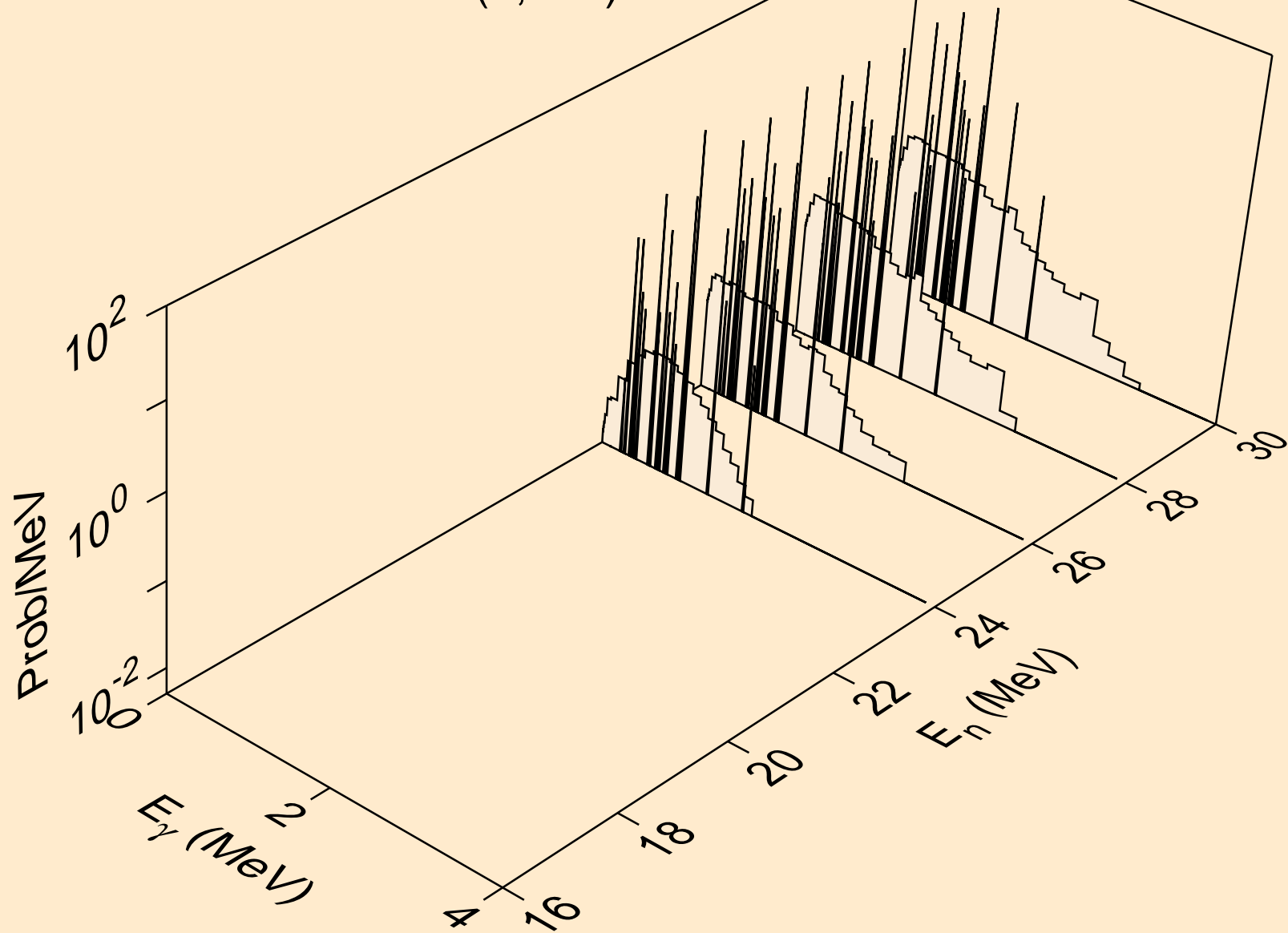
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Neutron emission for (n,n\*c)



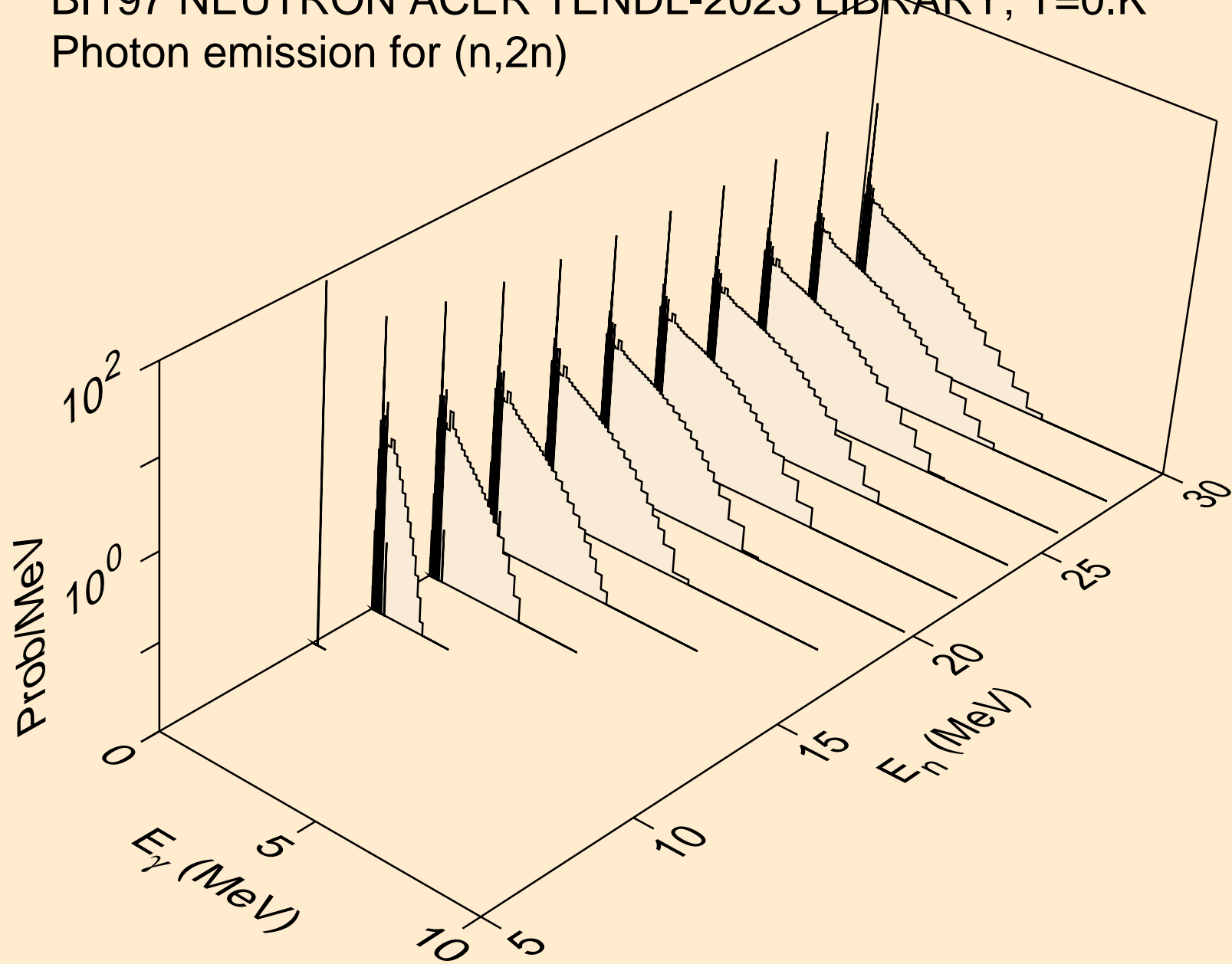
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Photon emission for (n,x)



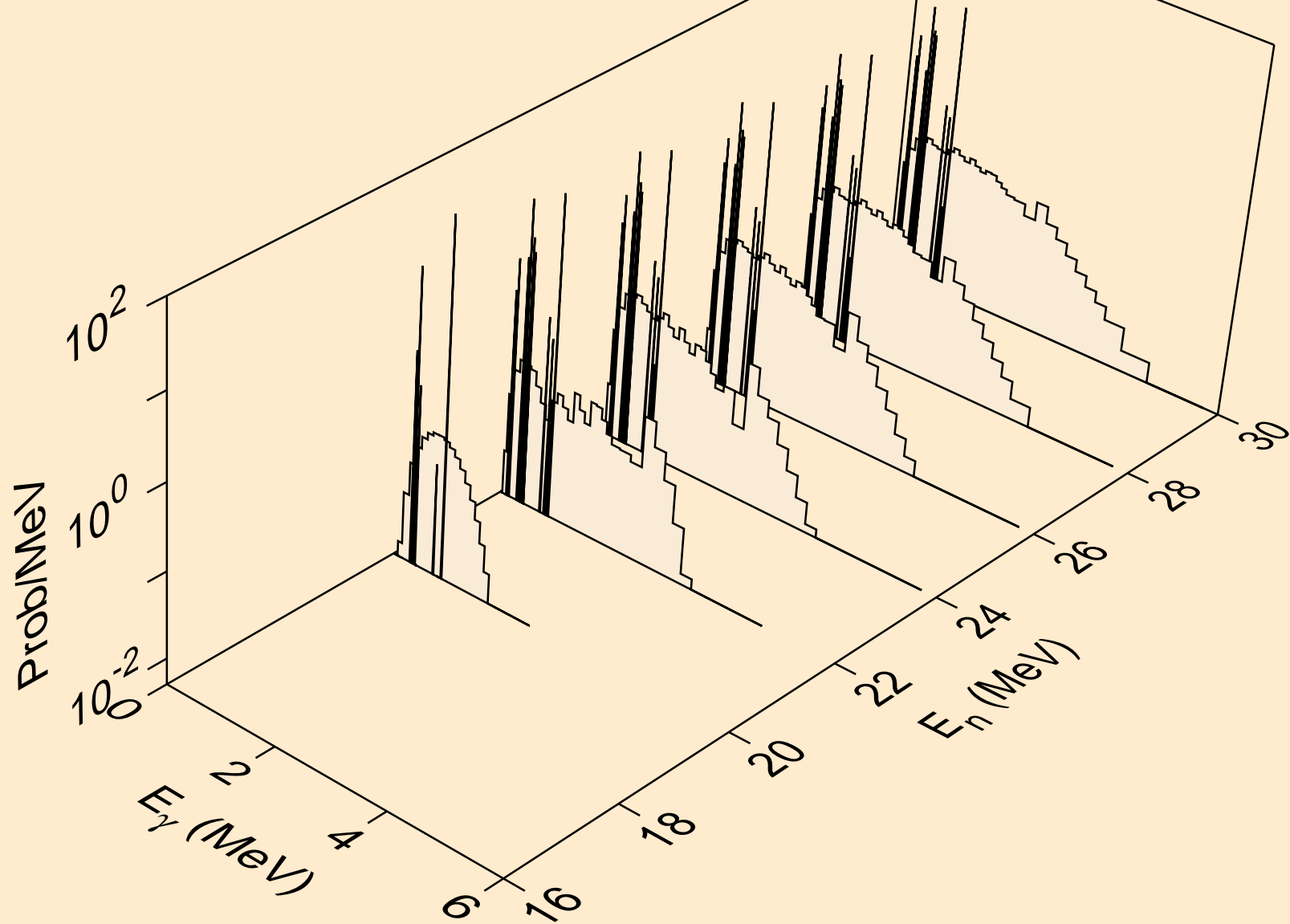
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Photon emission for (n,2nd)



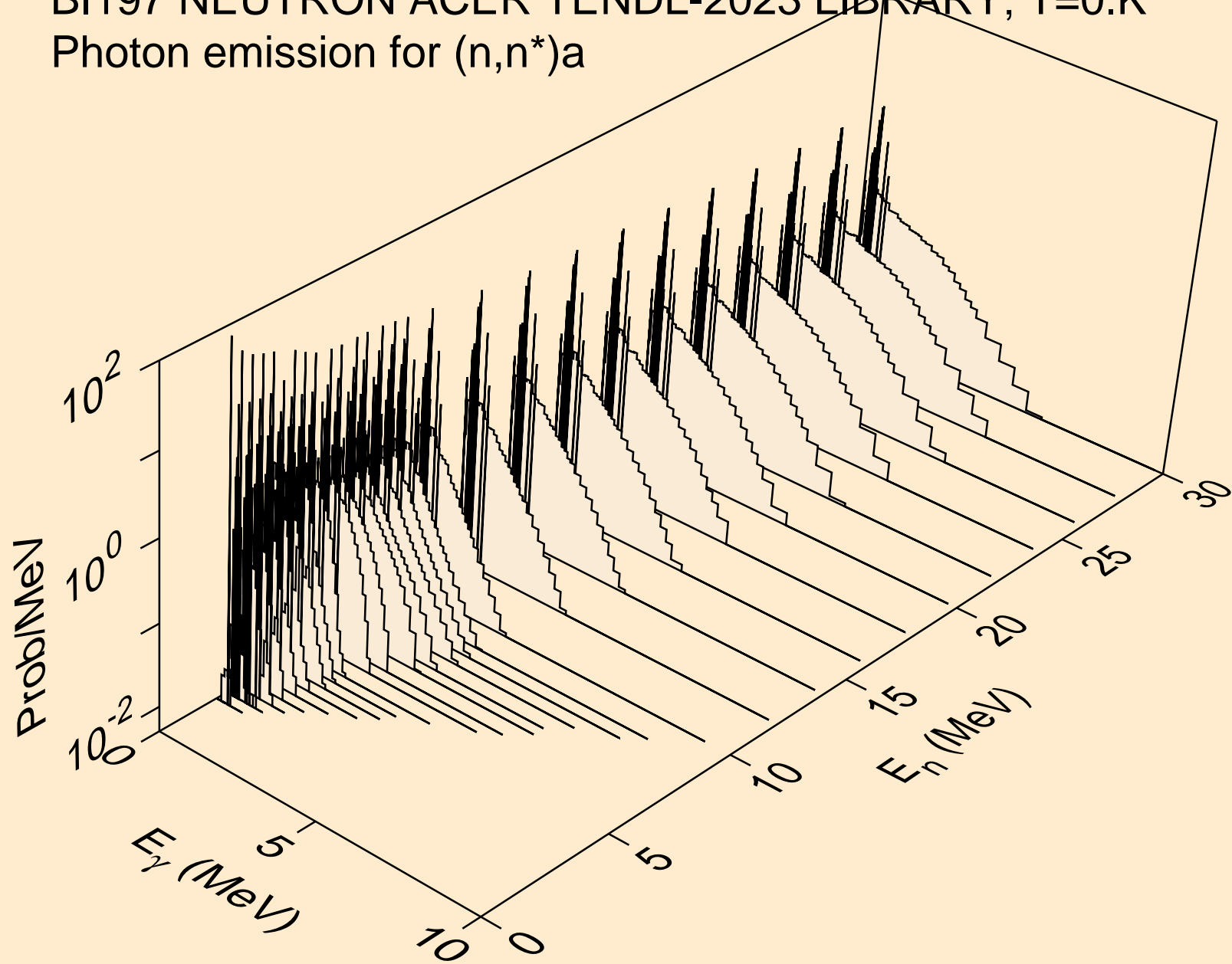
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Photon emission for (n,2n)



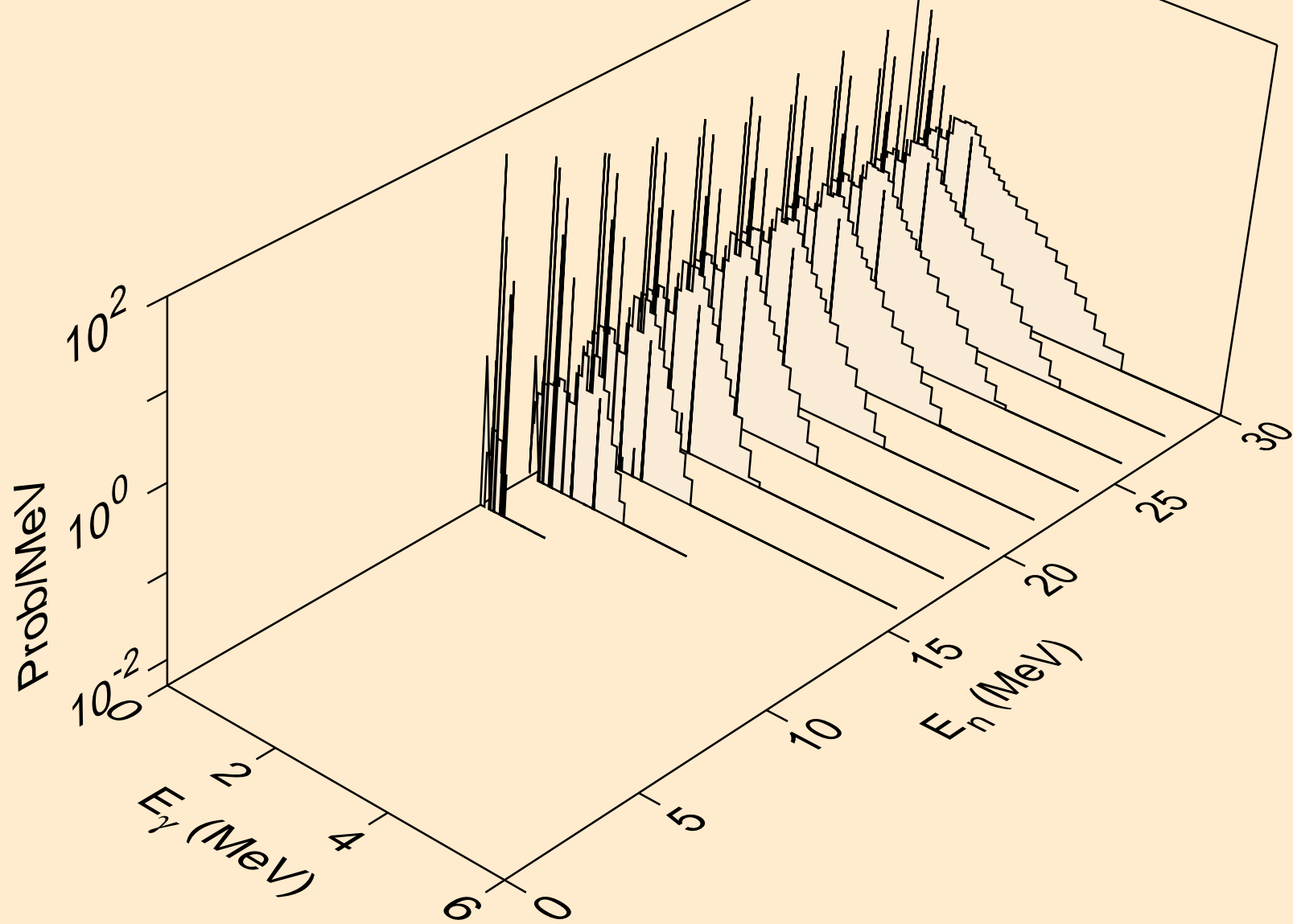
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



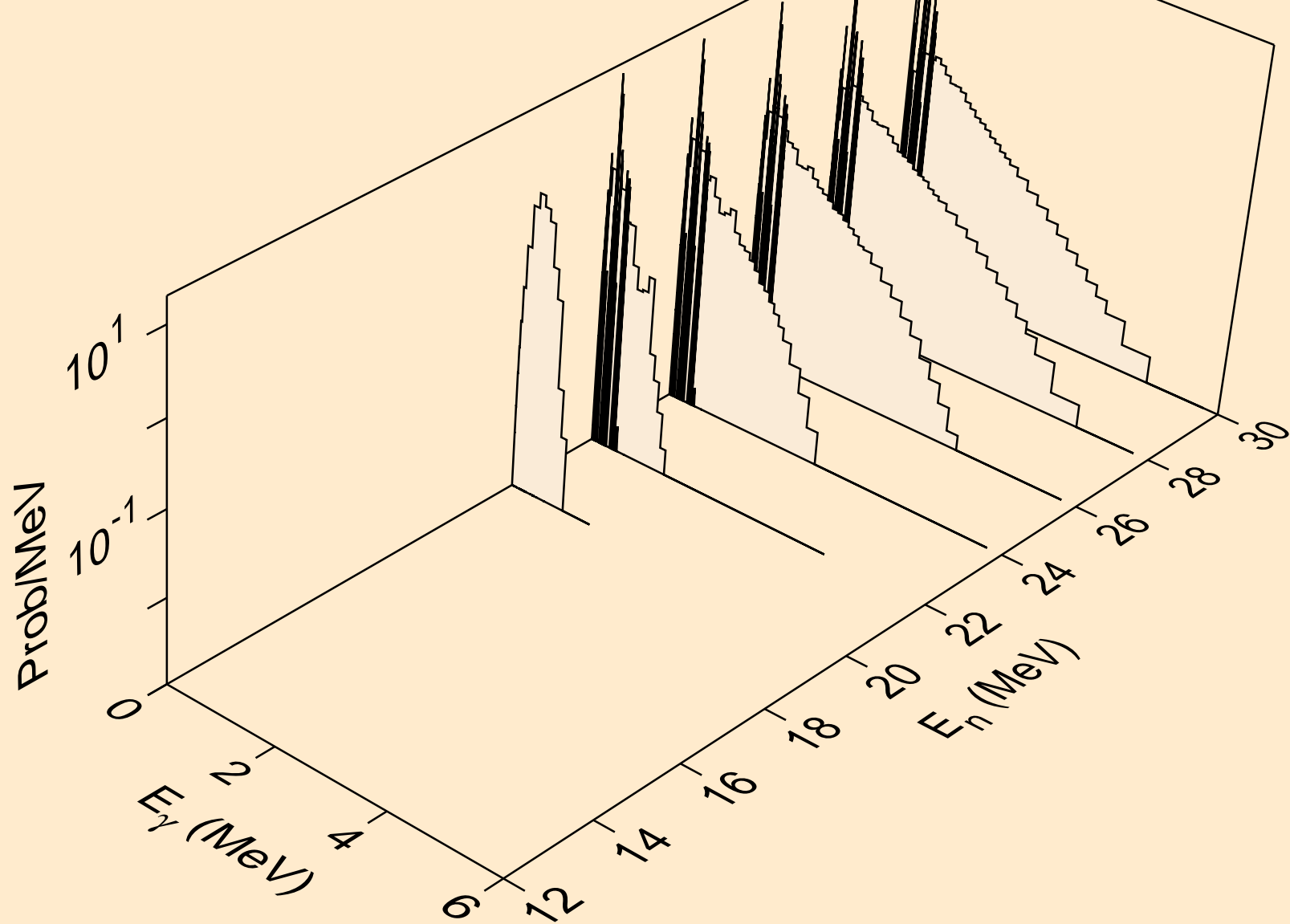
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a

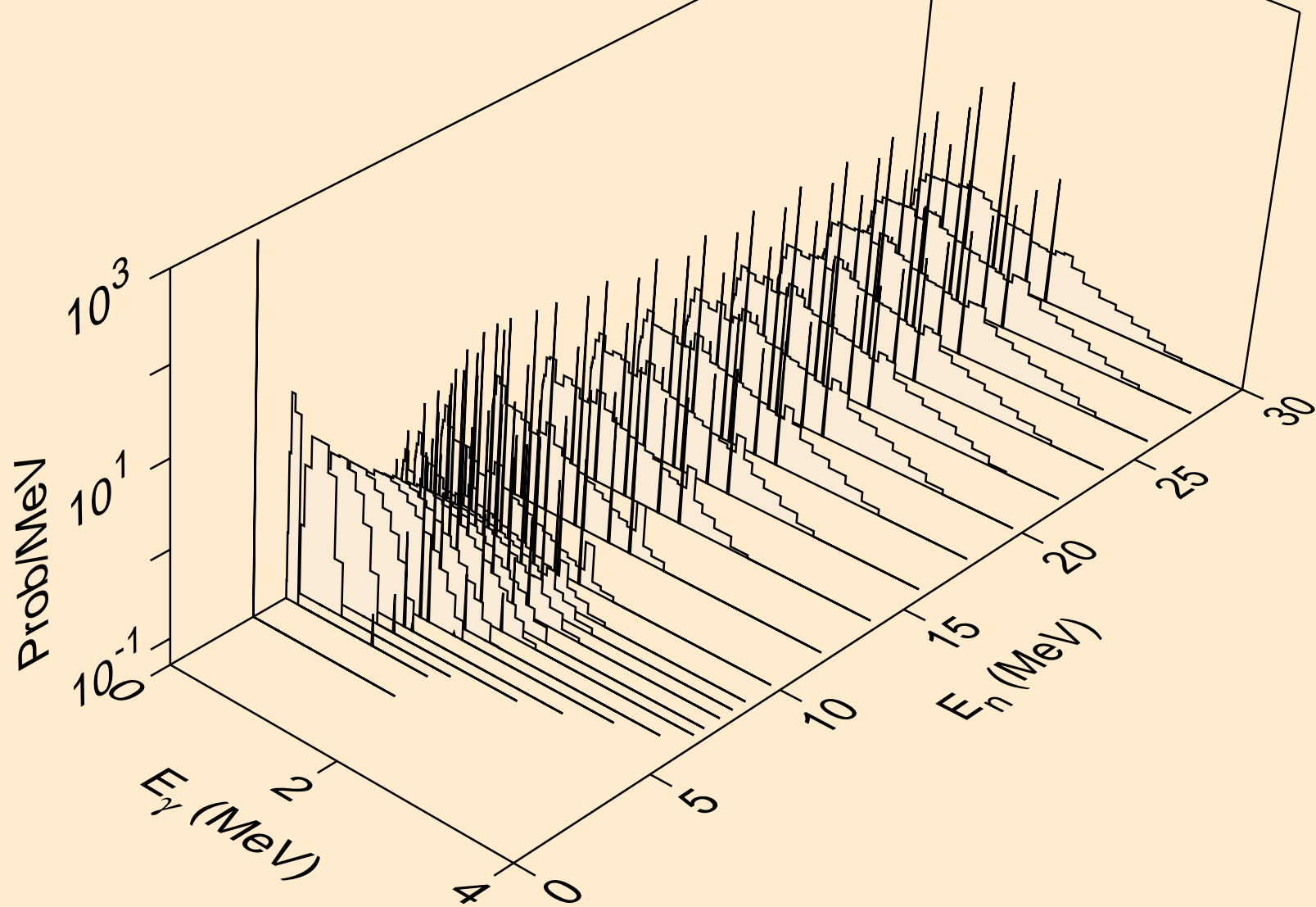


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a

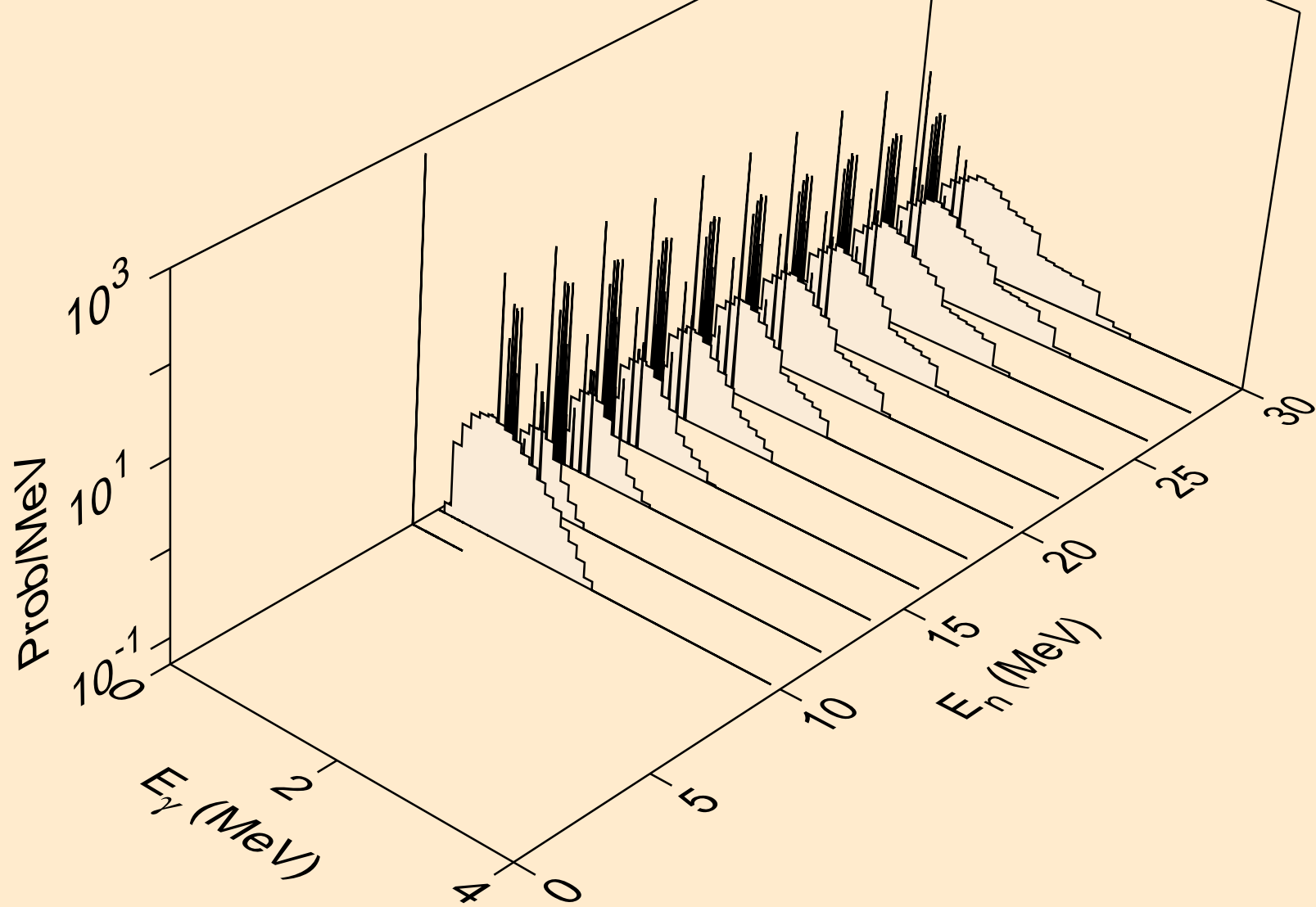




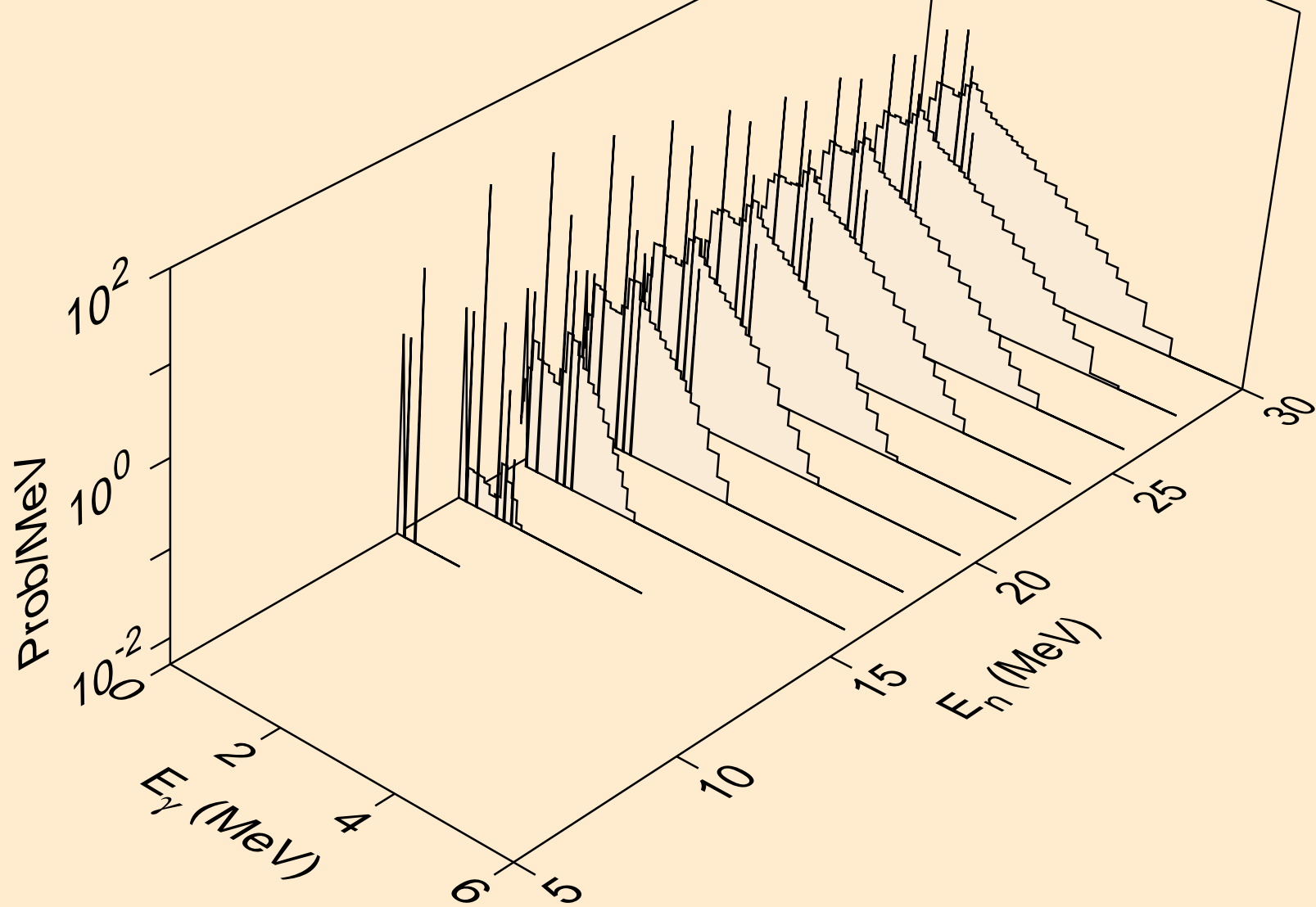
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



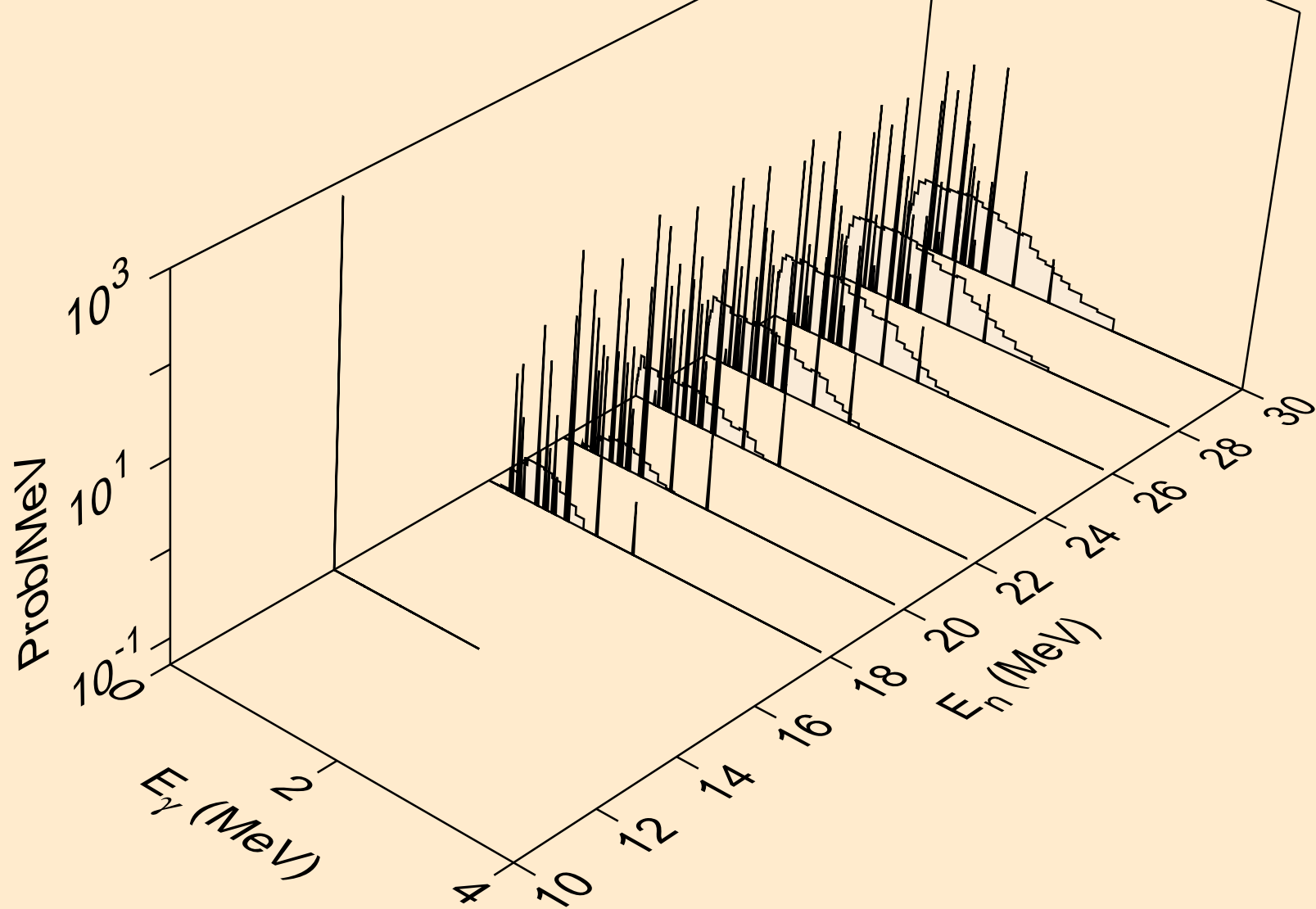
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



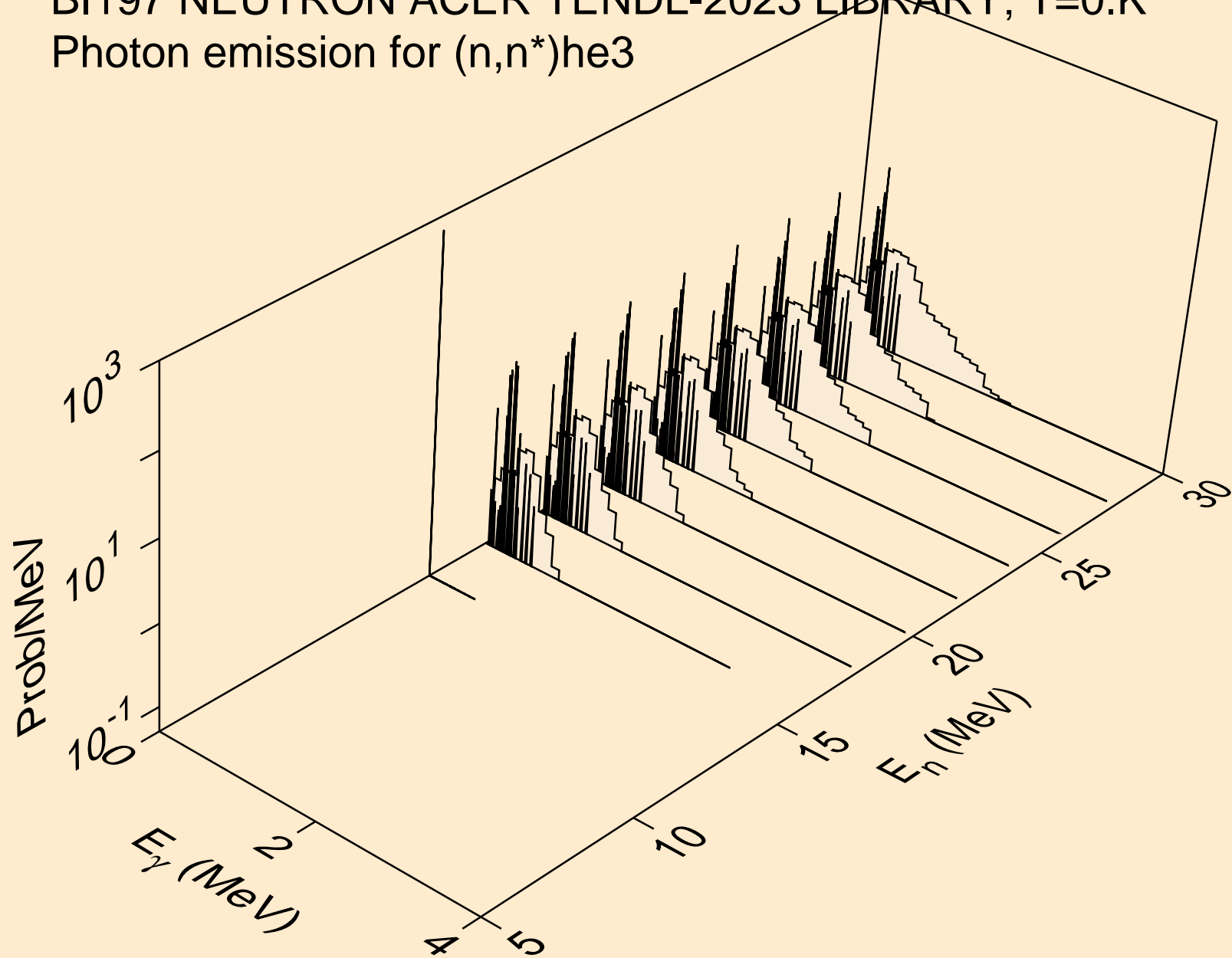
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



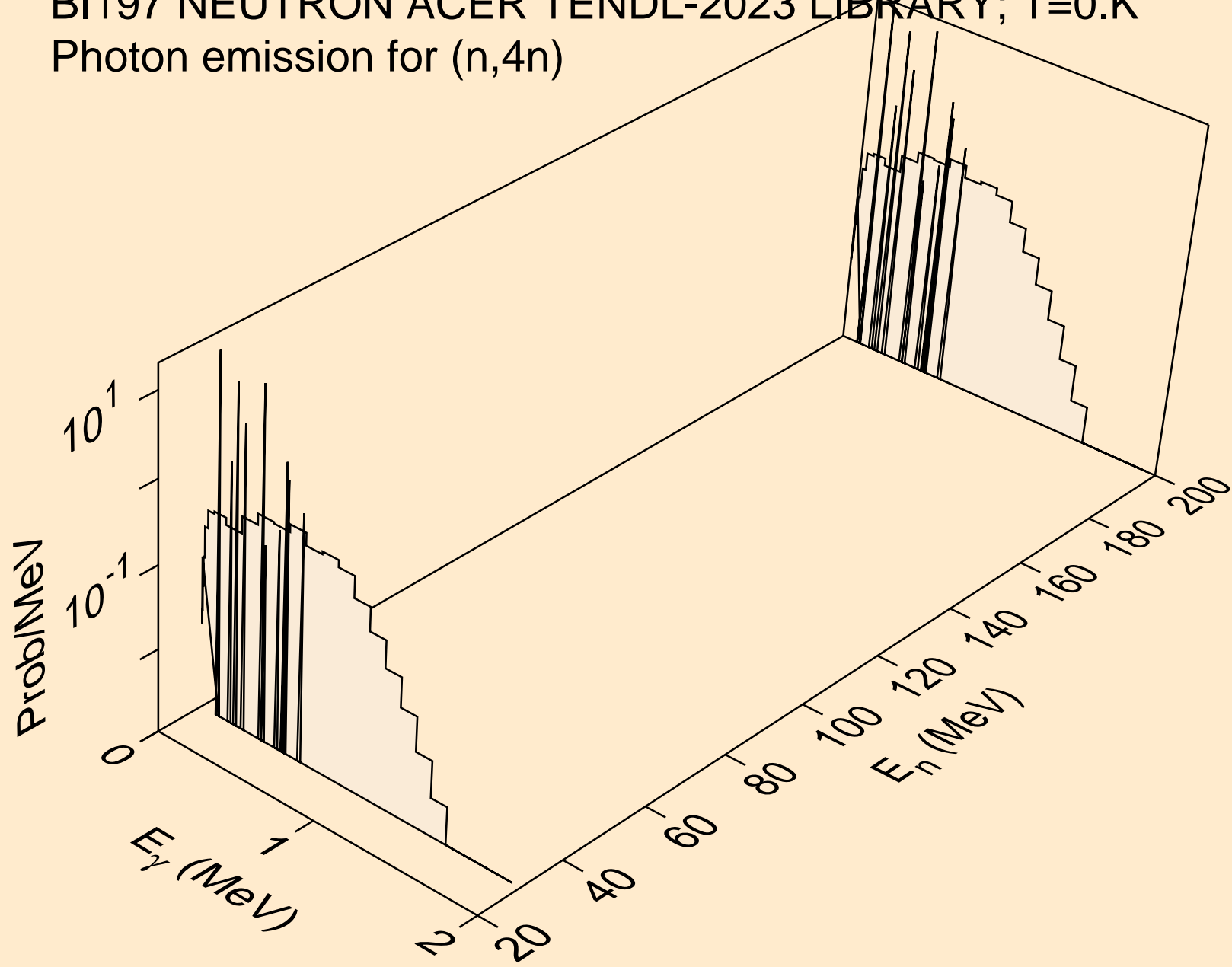
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



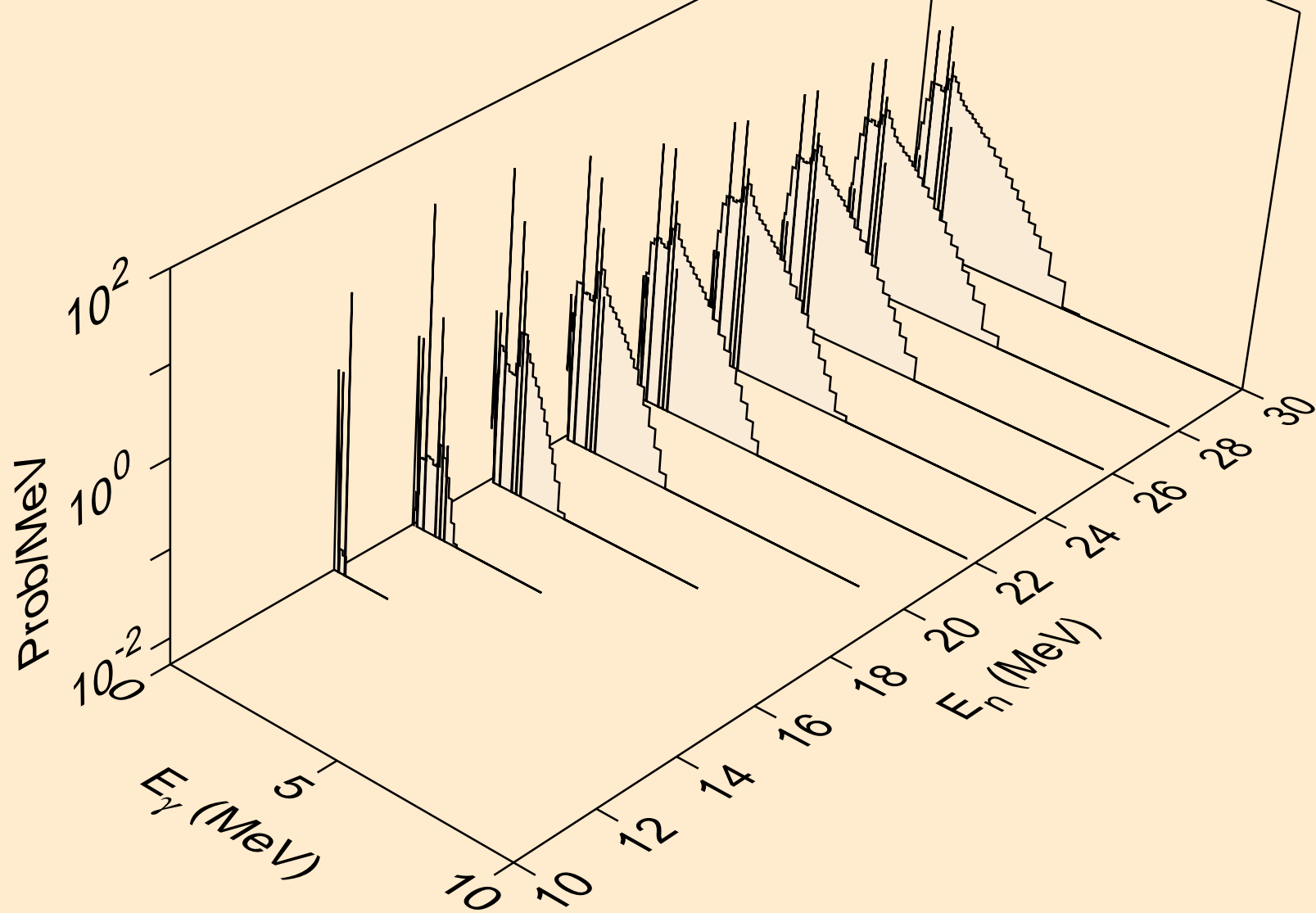
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



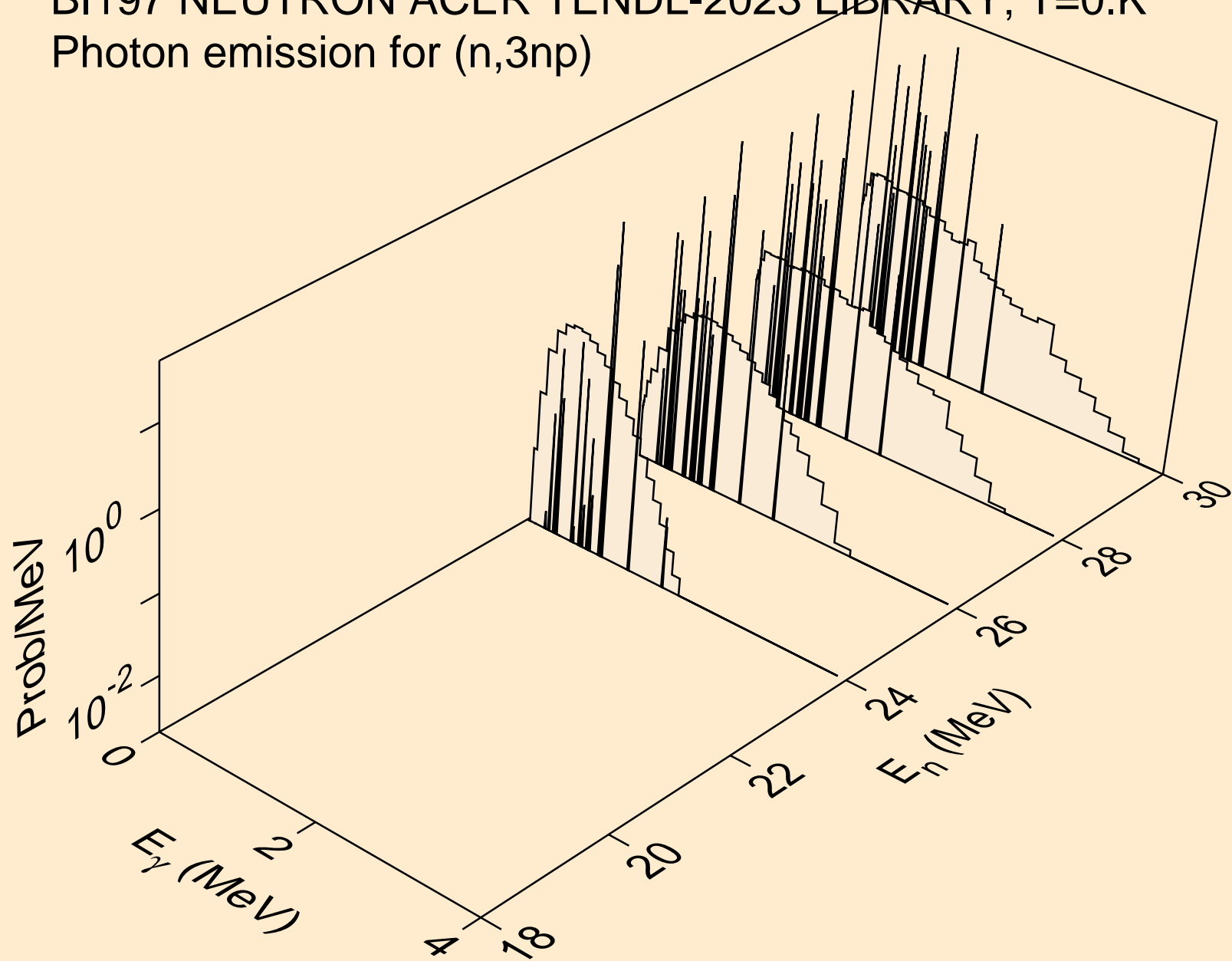
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)

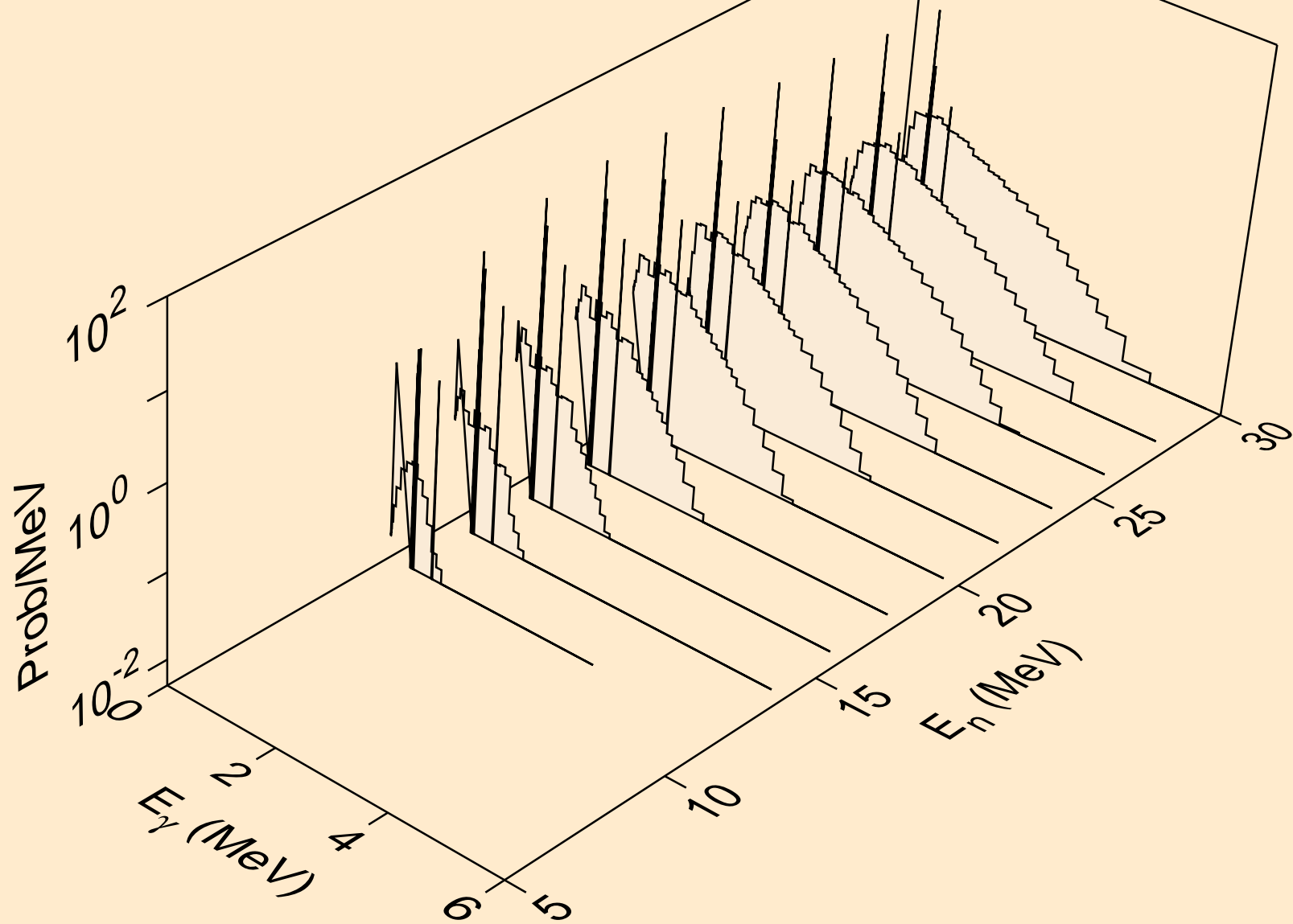


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)

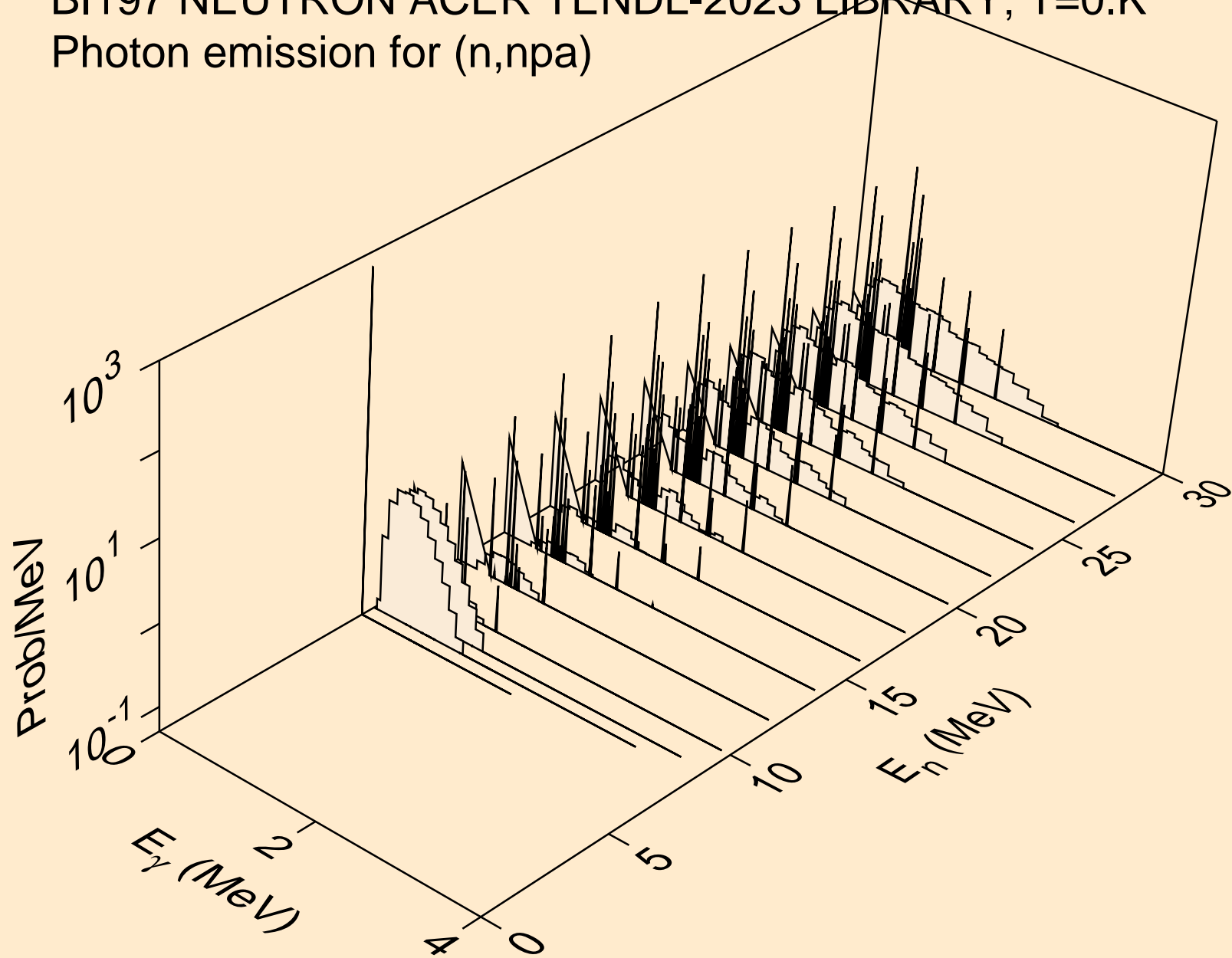




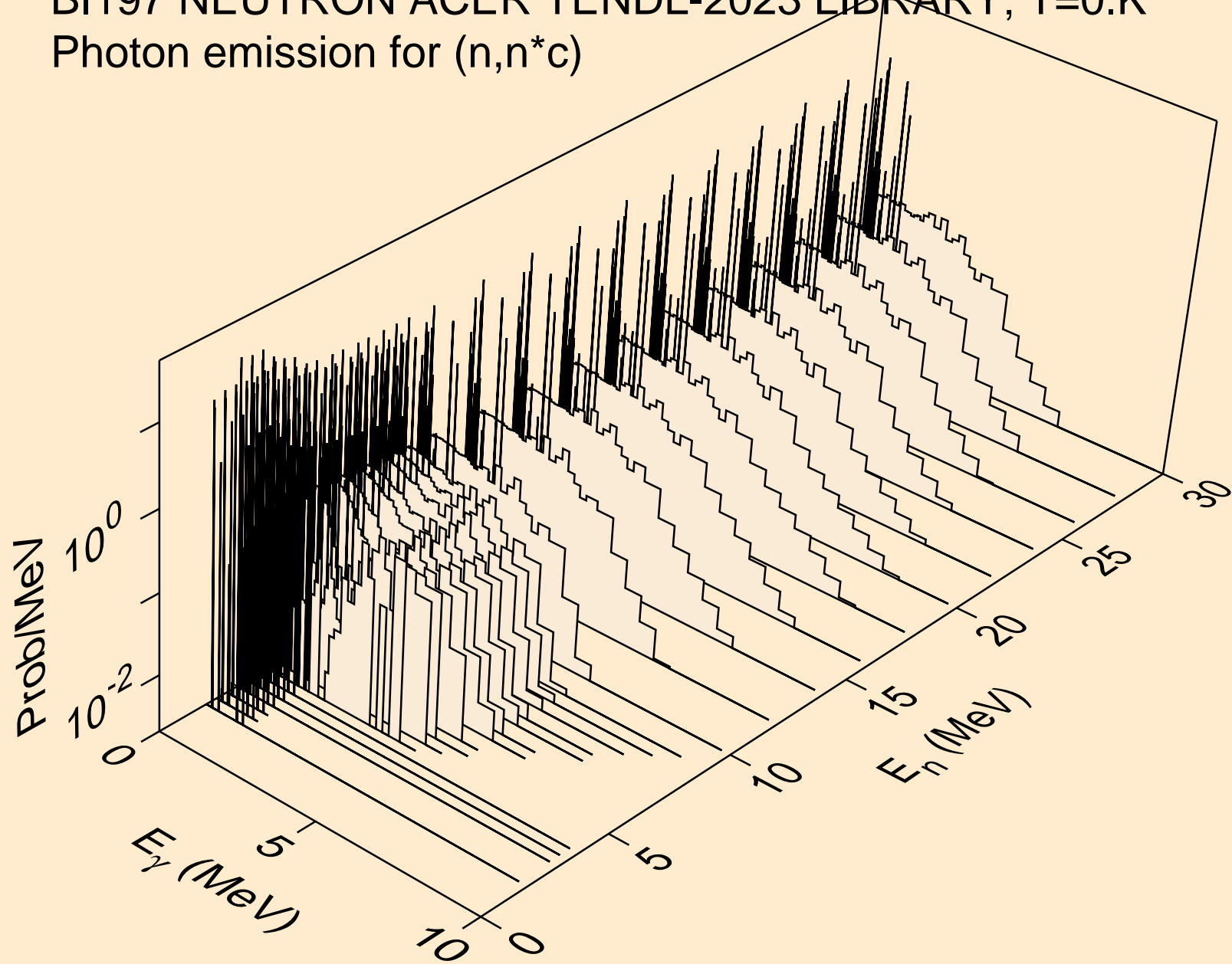
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



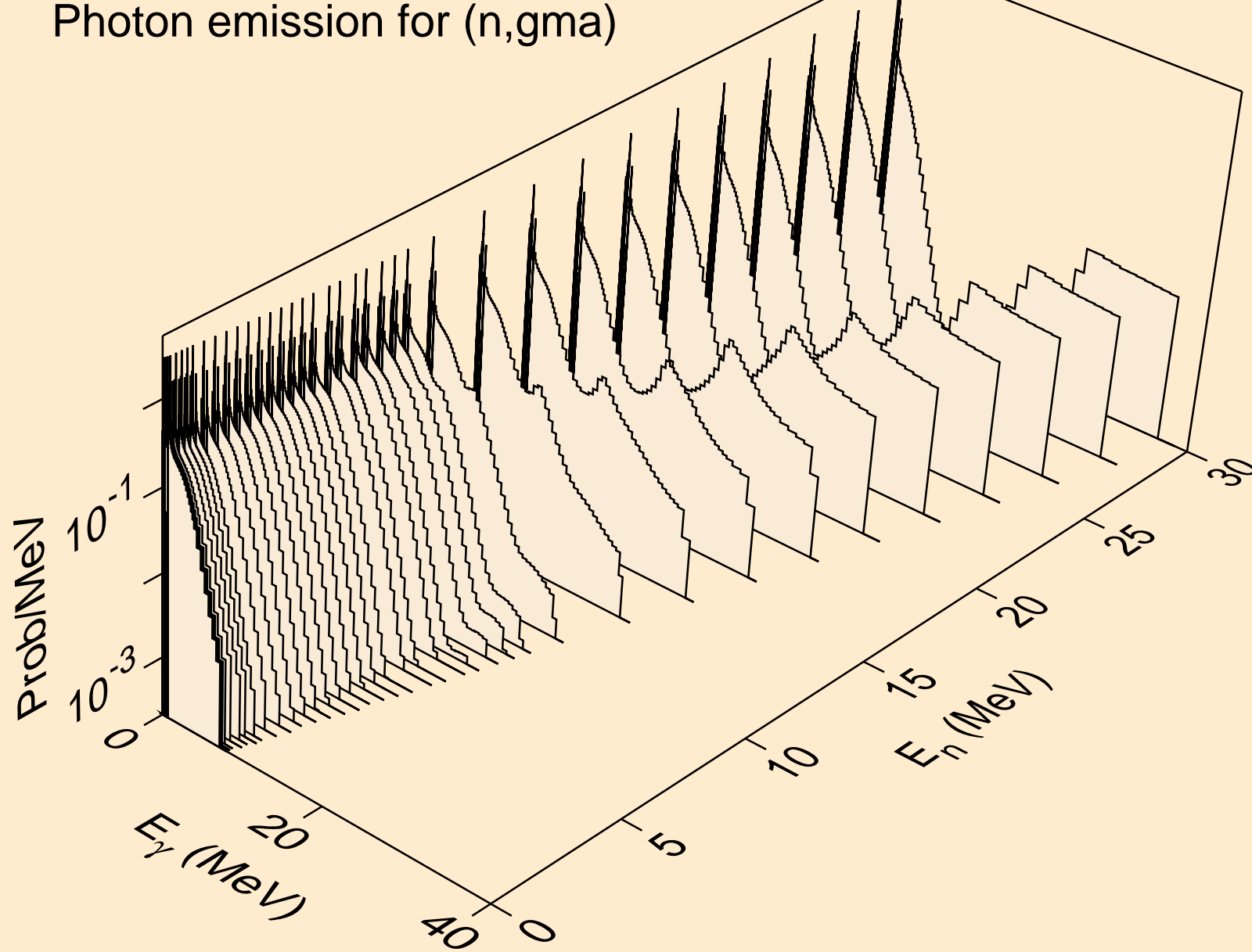
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



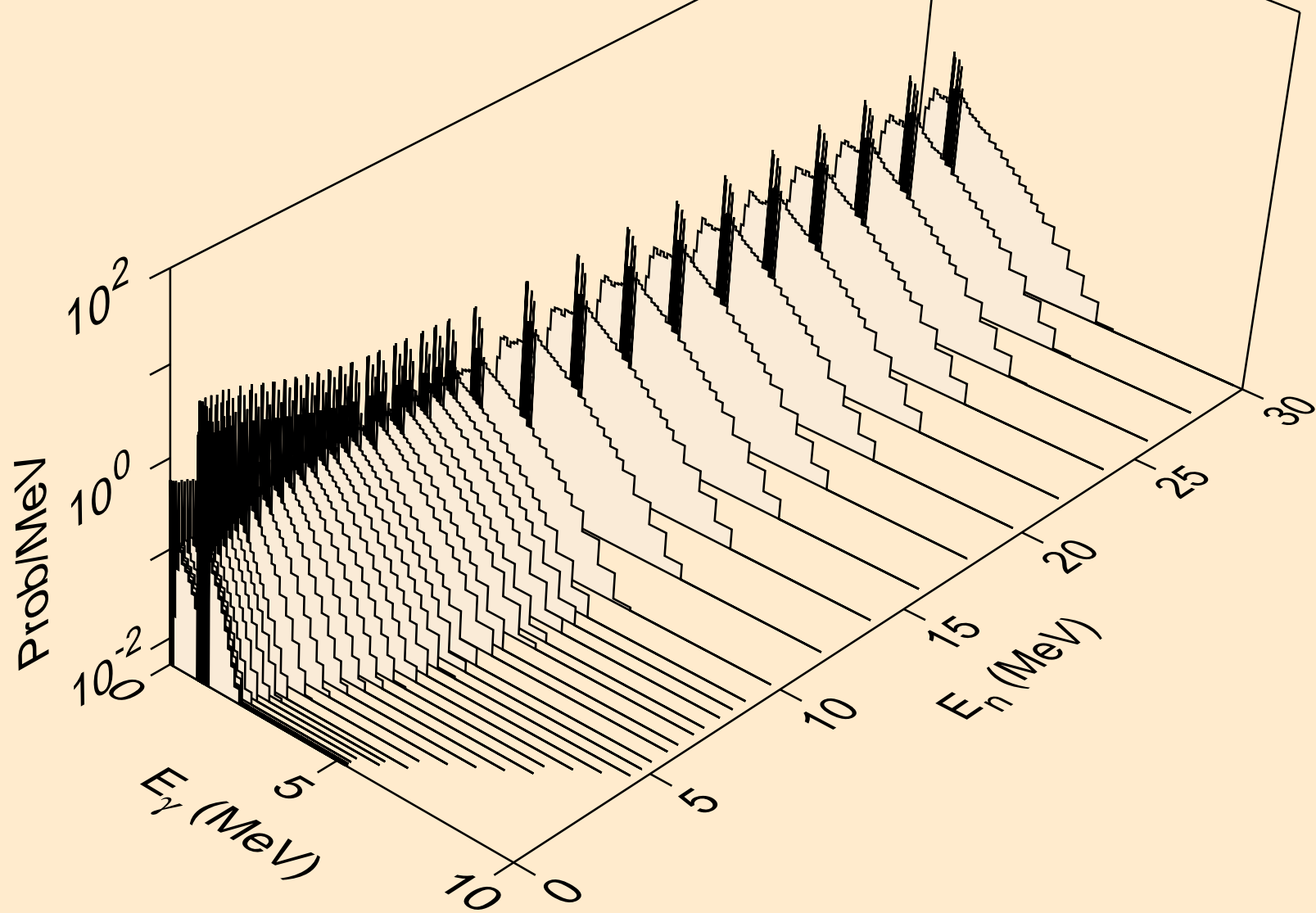
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



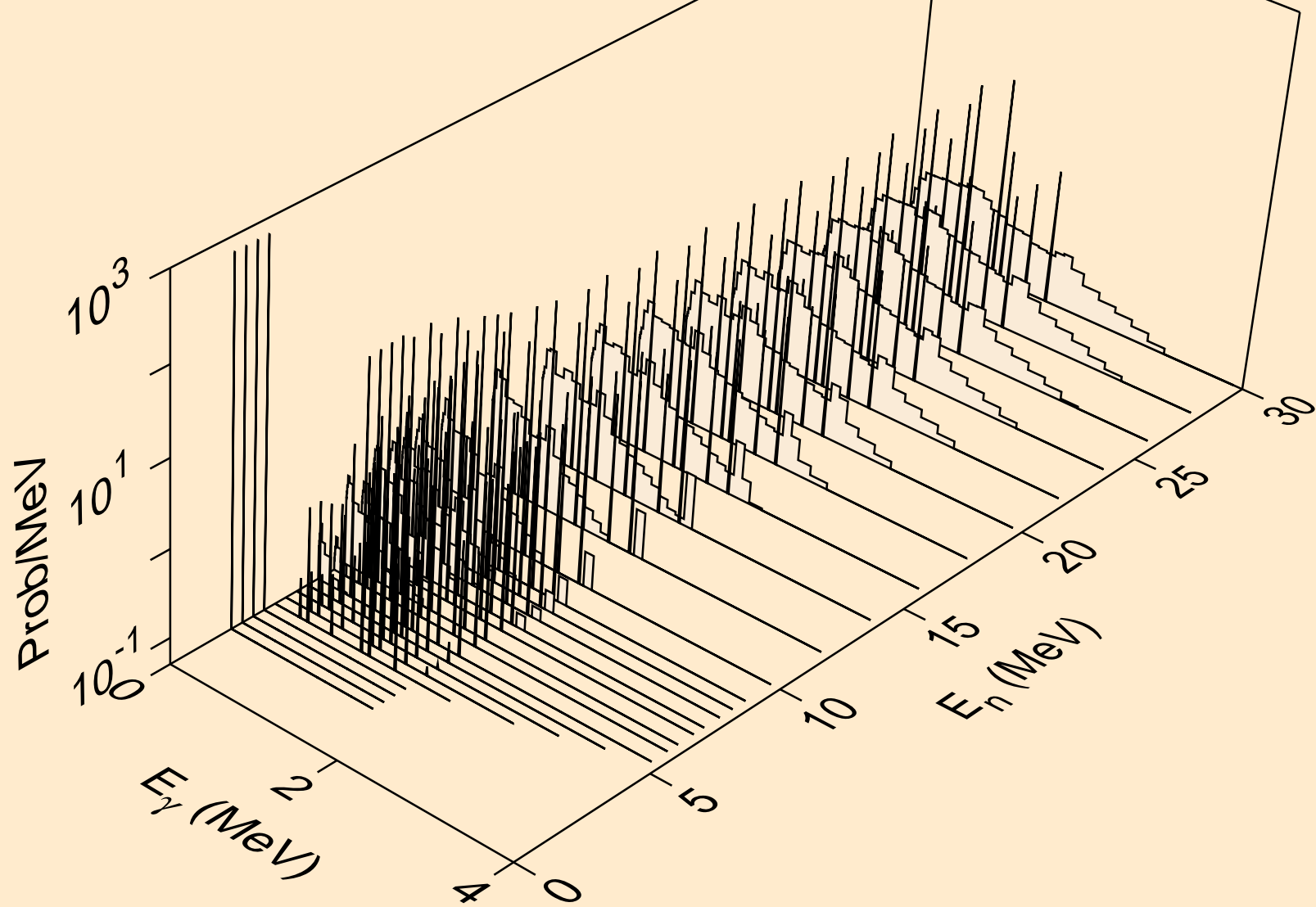
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Photon emission for (n,gma)



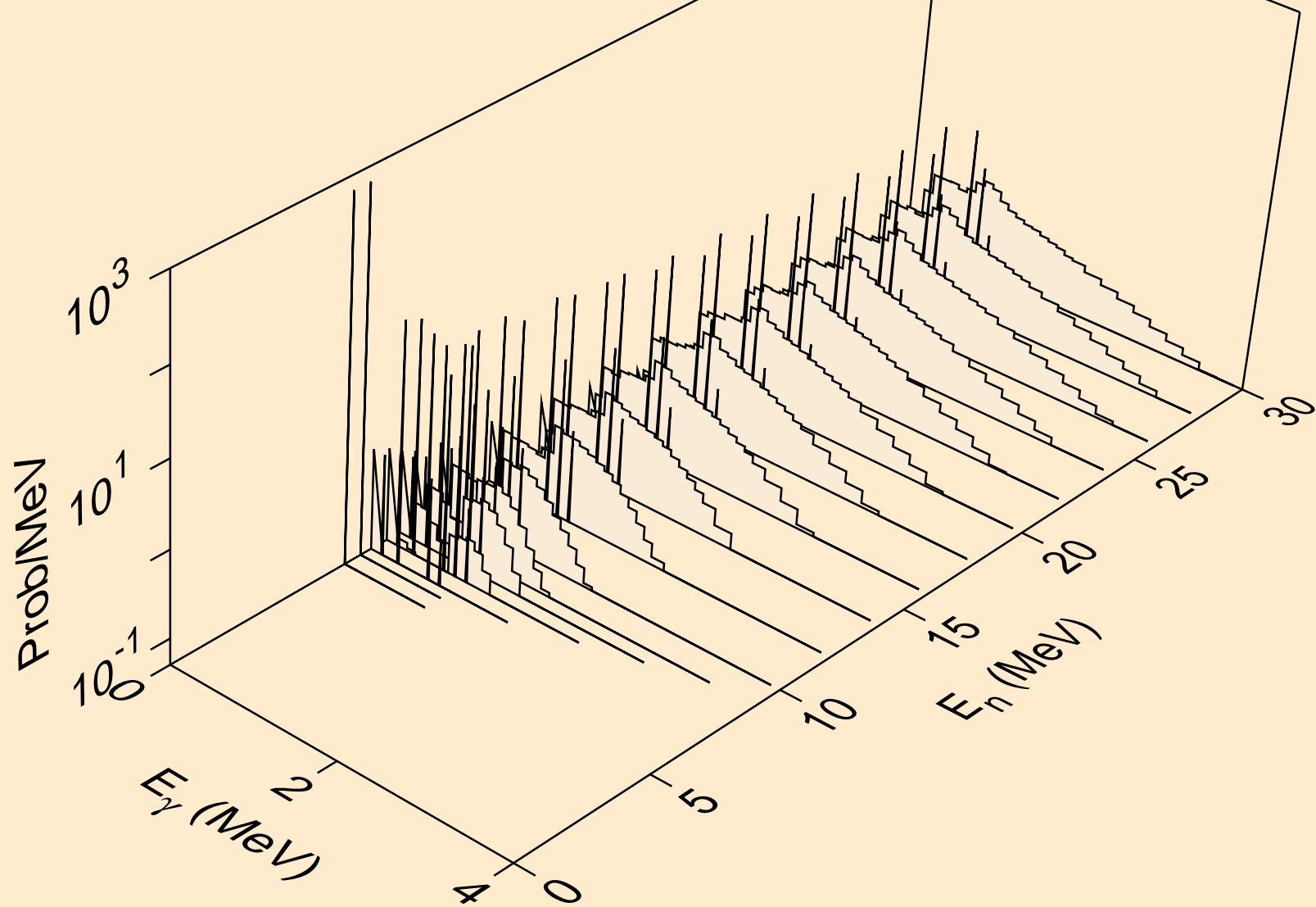
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



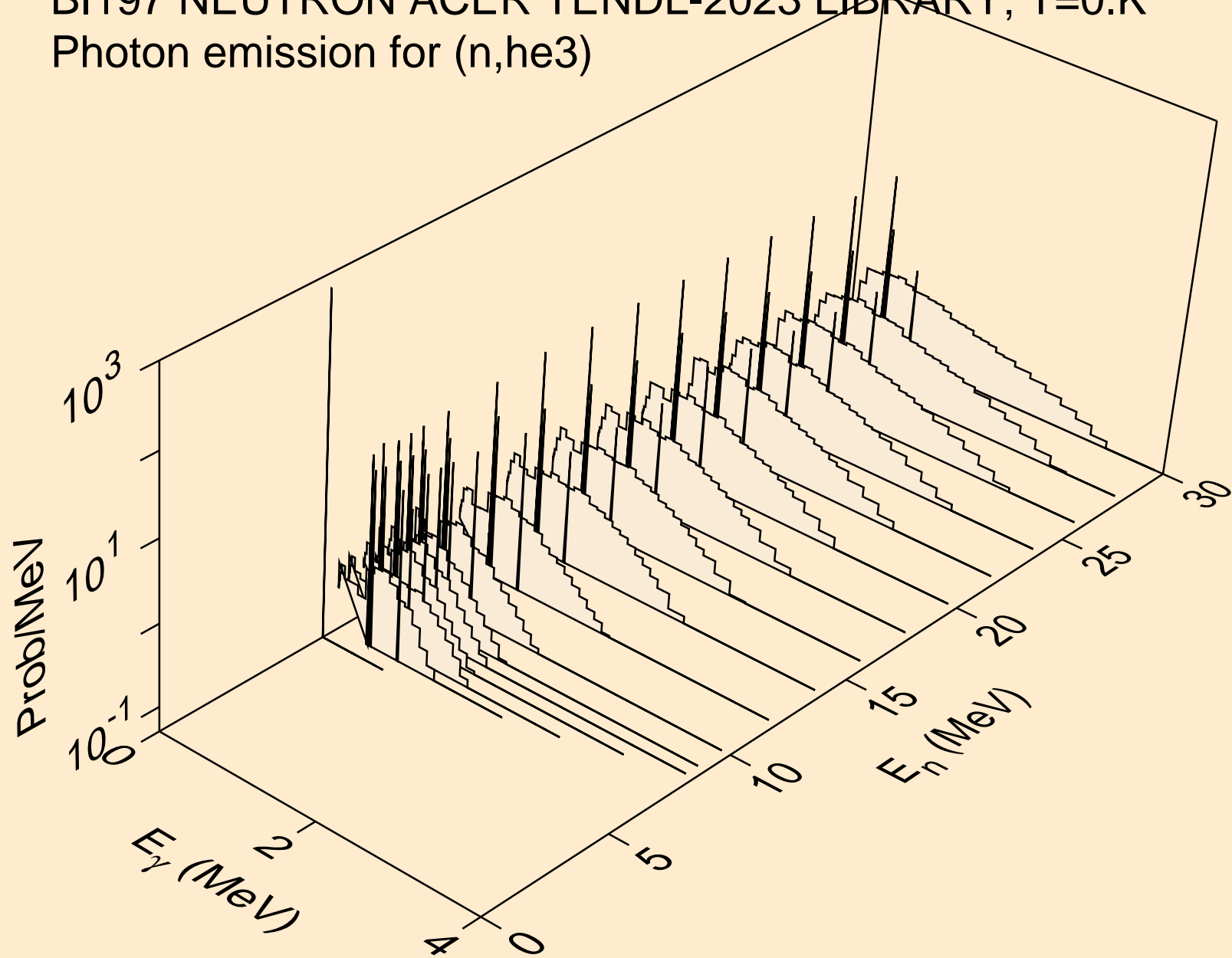
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

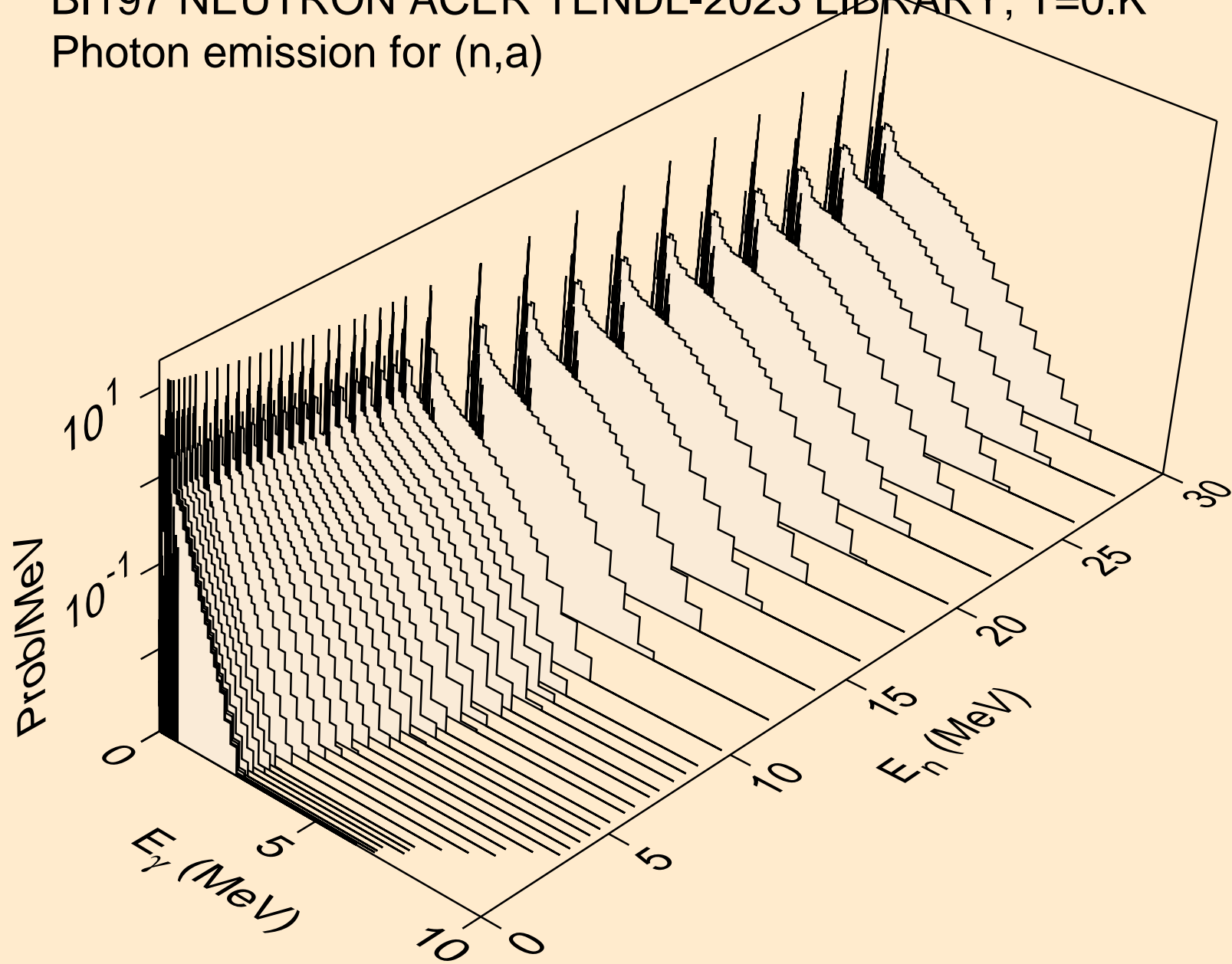


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

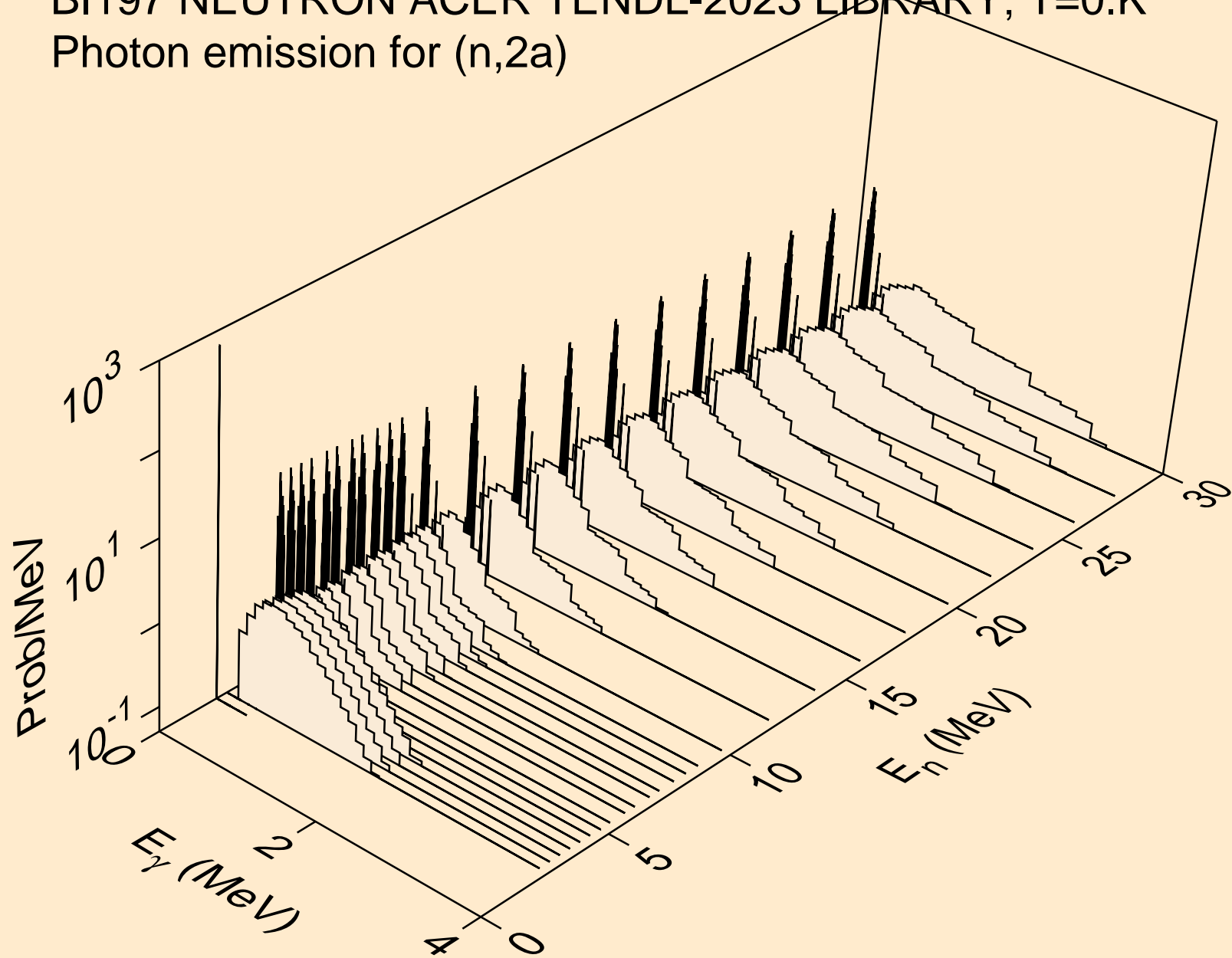




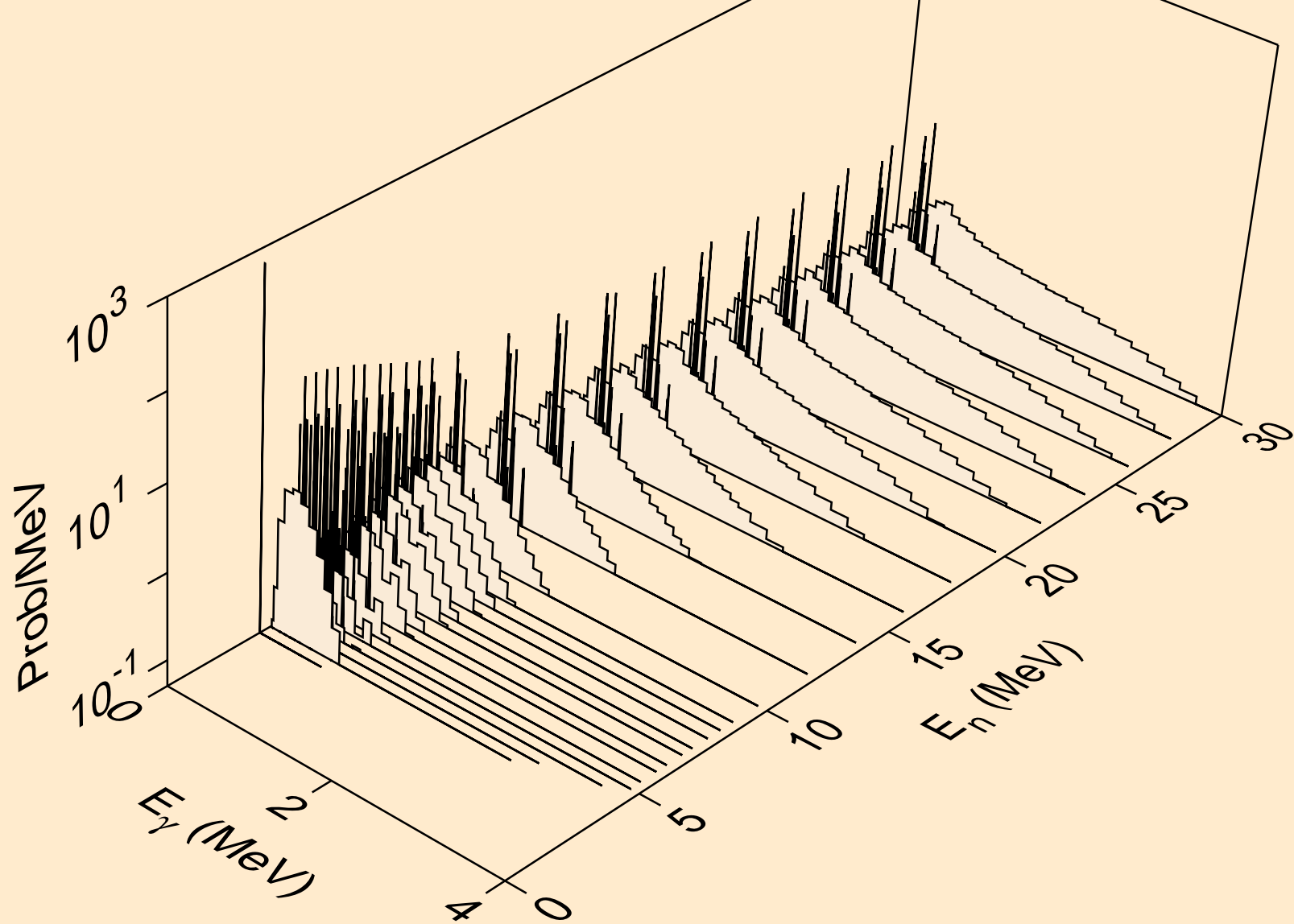
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



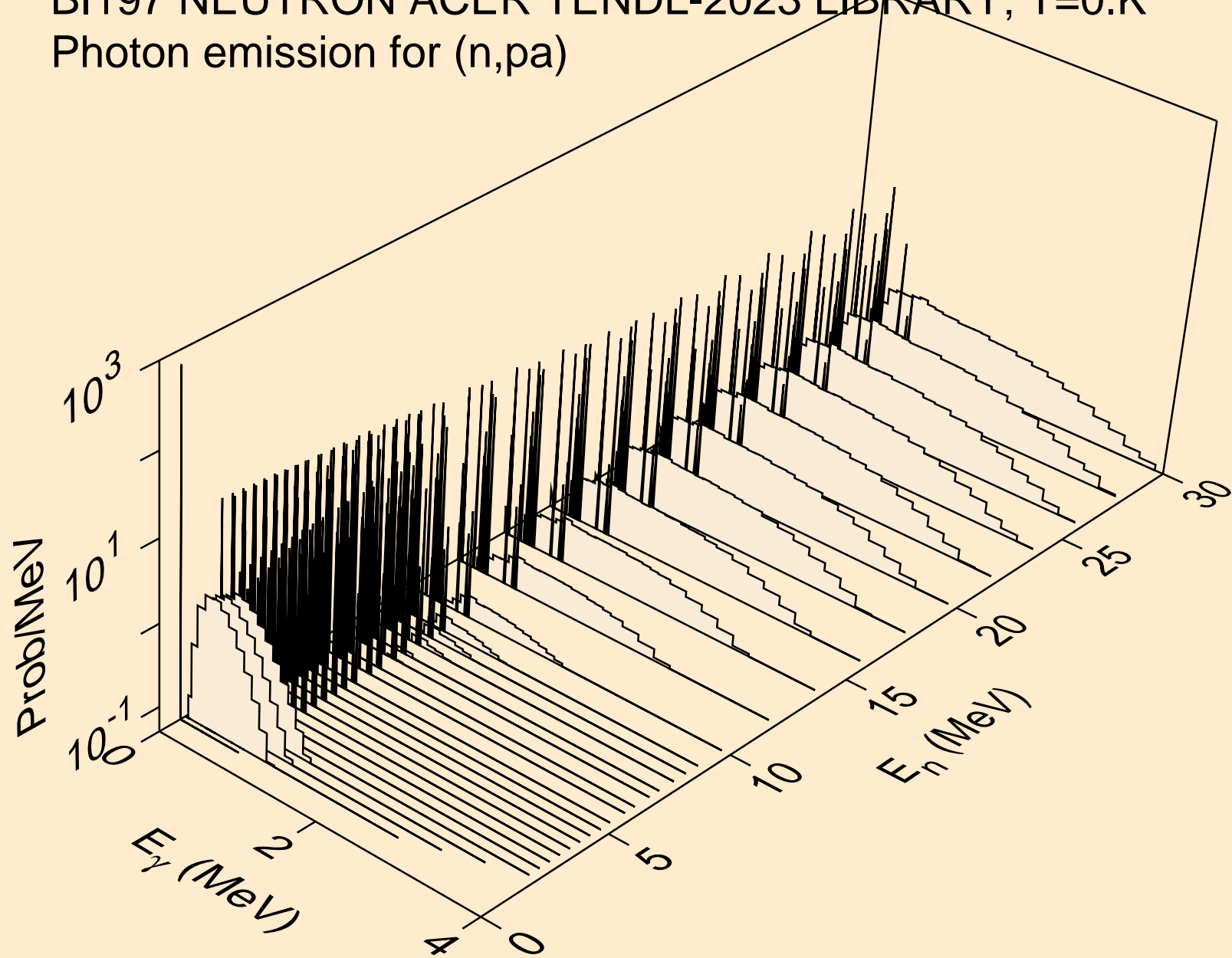
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



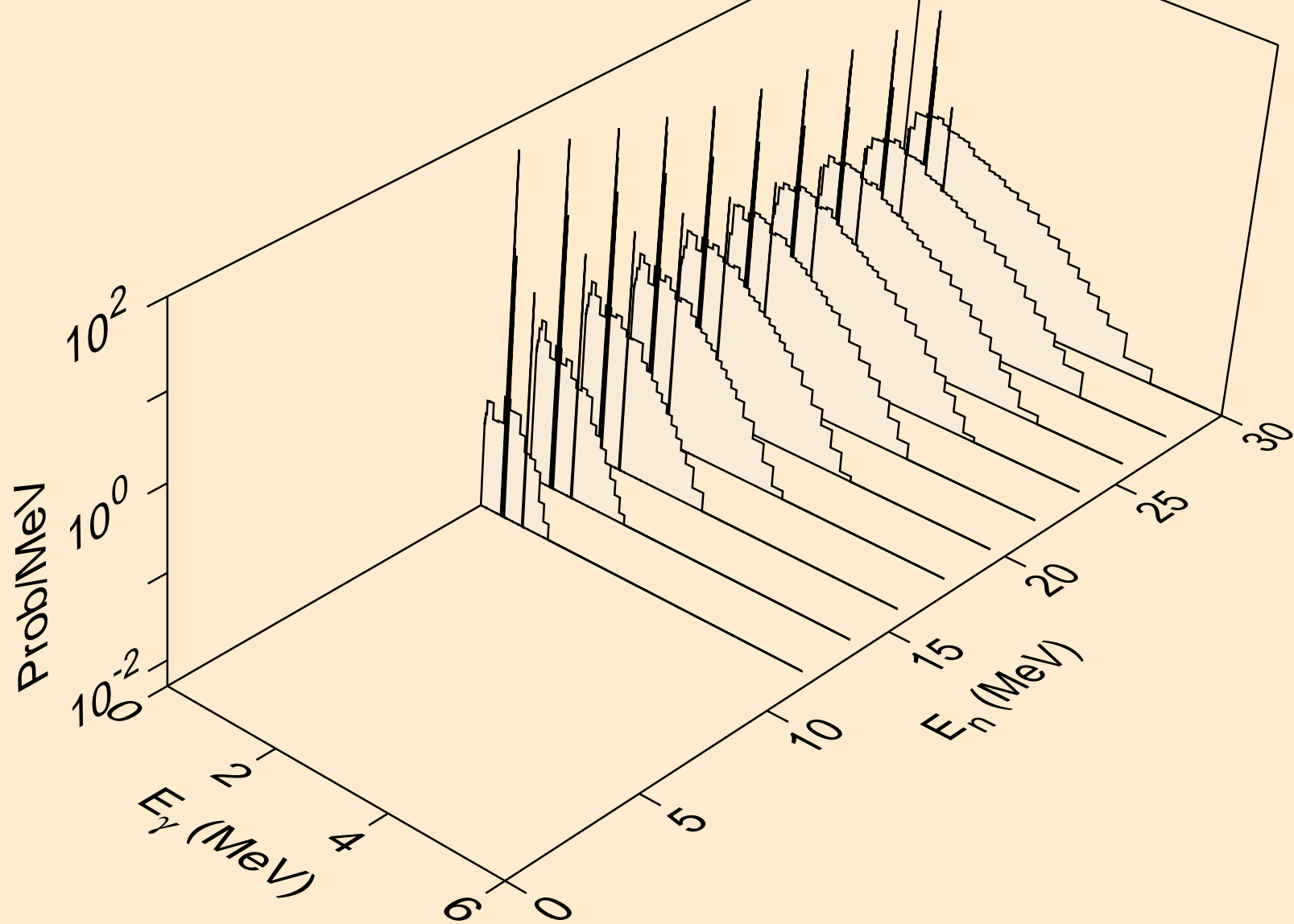
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Photon emission for (n,2p)



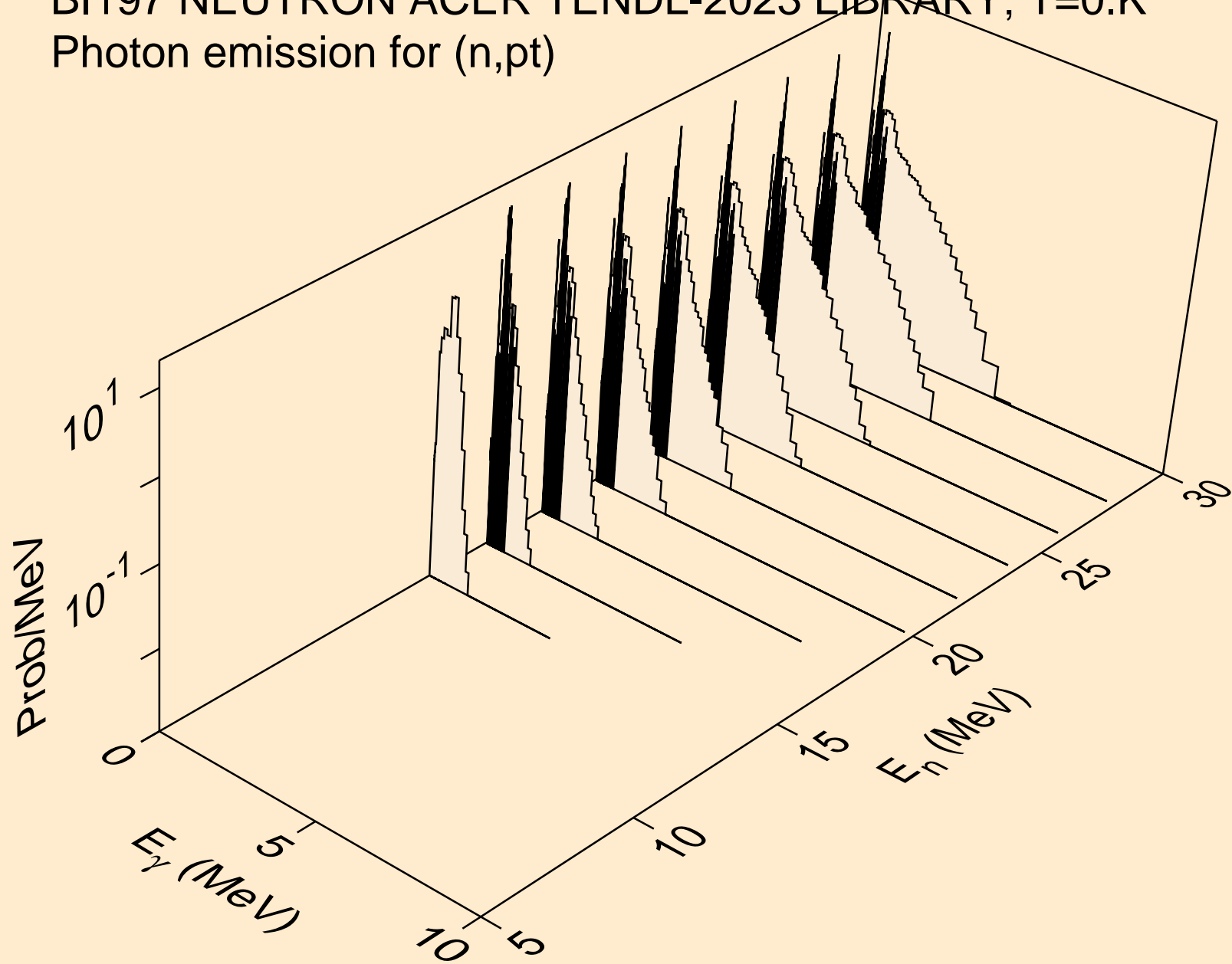
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Photon emission for (n,p $\alpha$ )



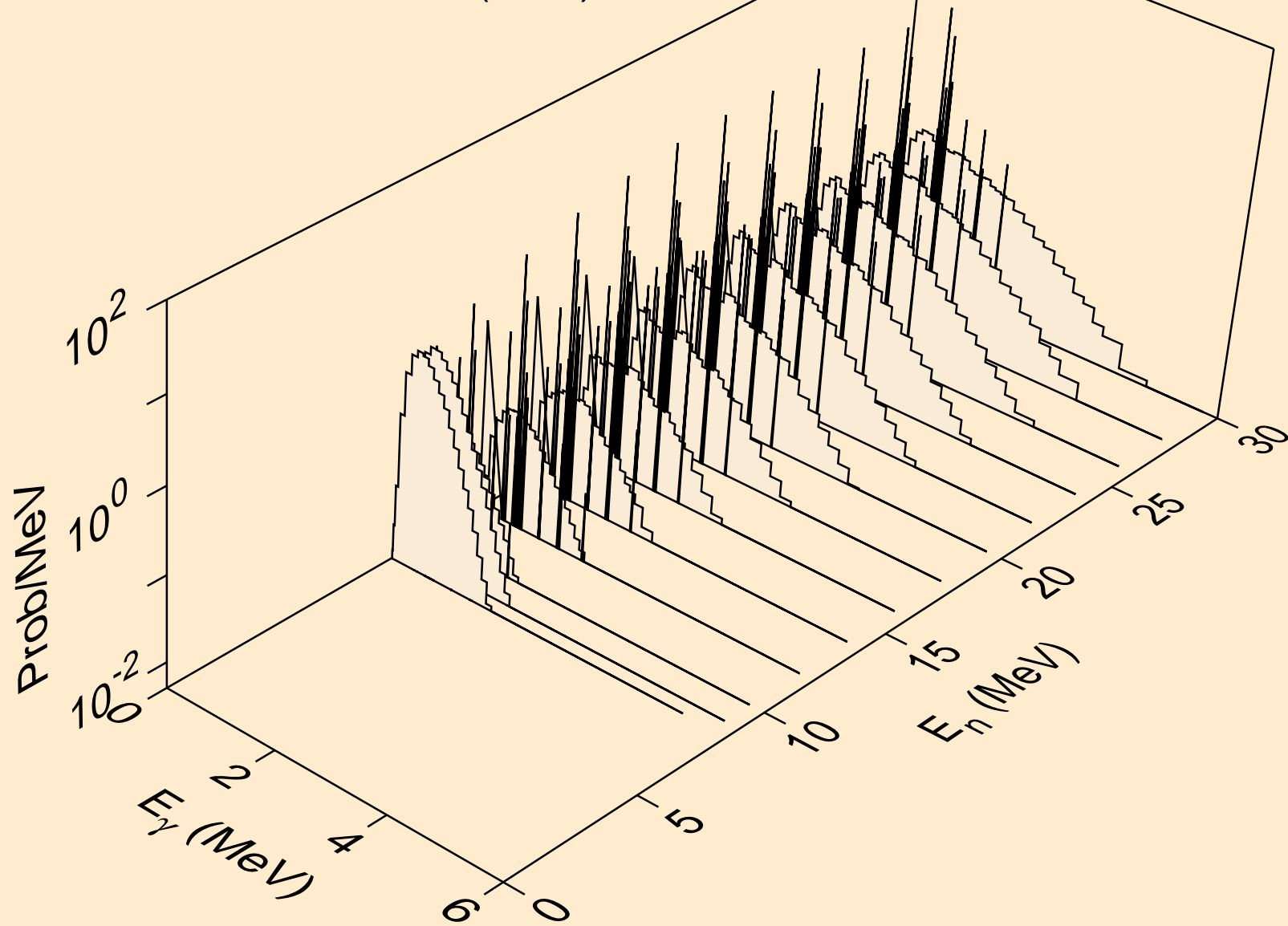
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Photon emission for (n,pd)



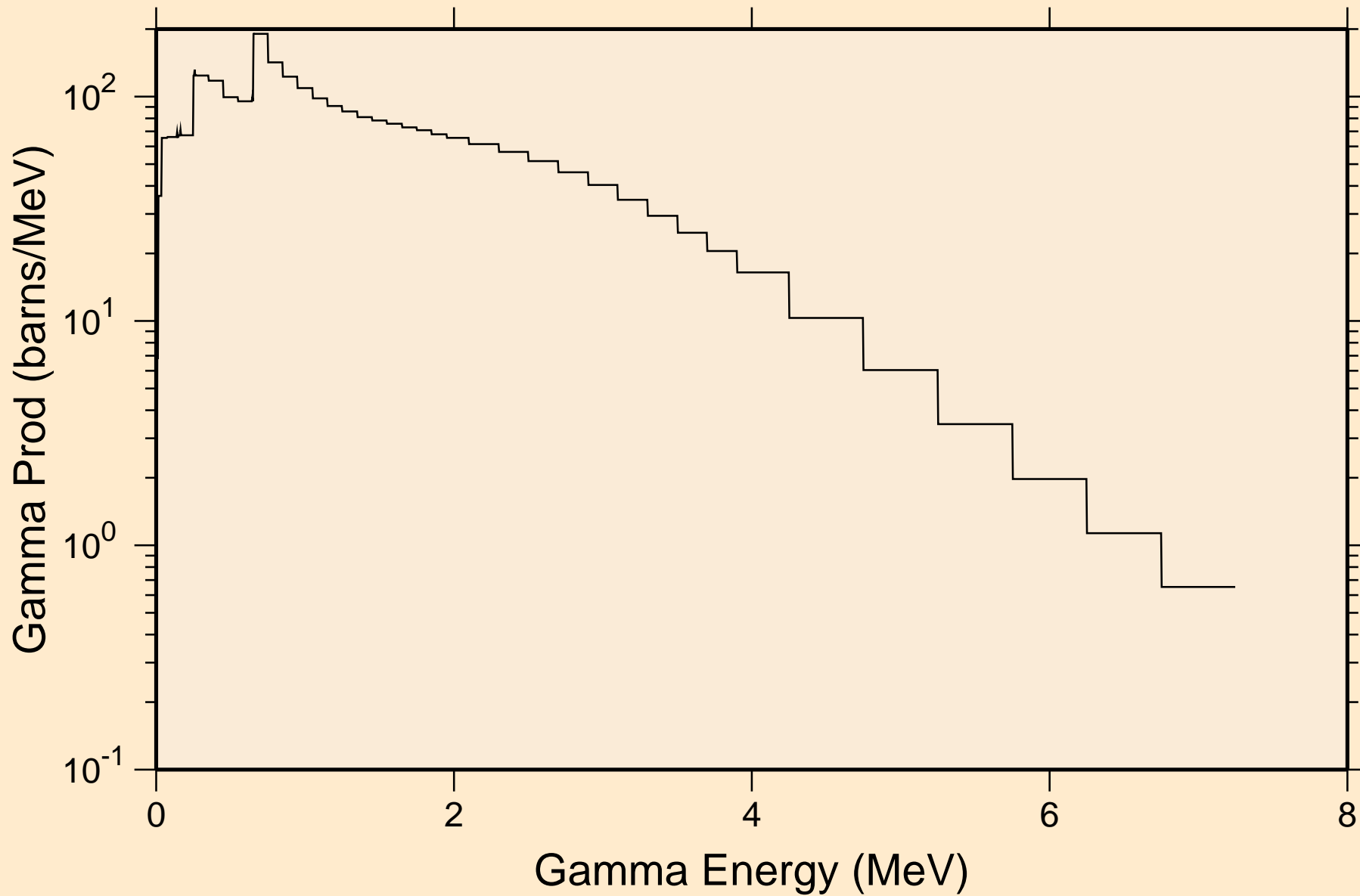
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

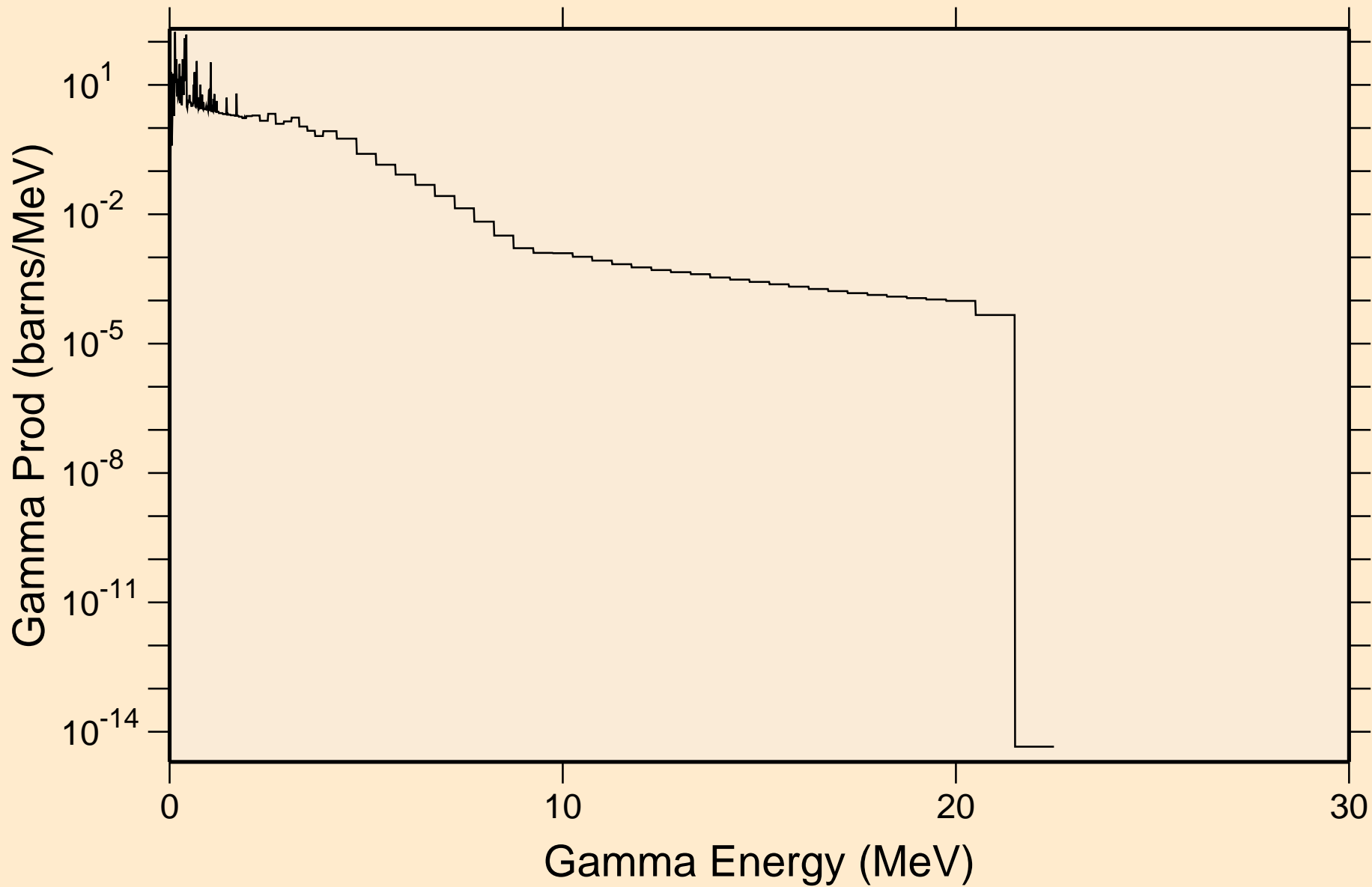


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



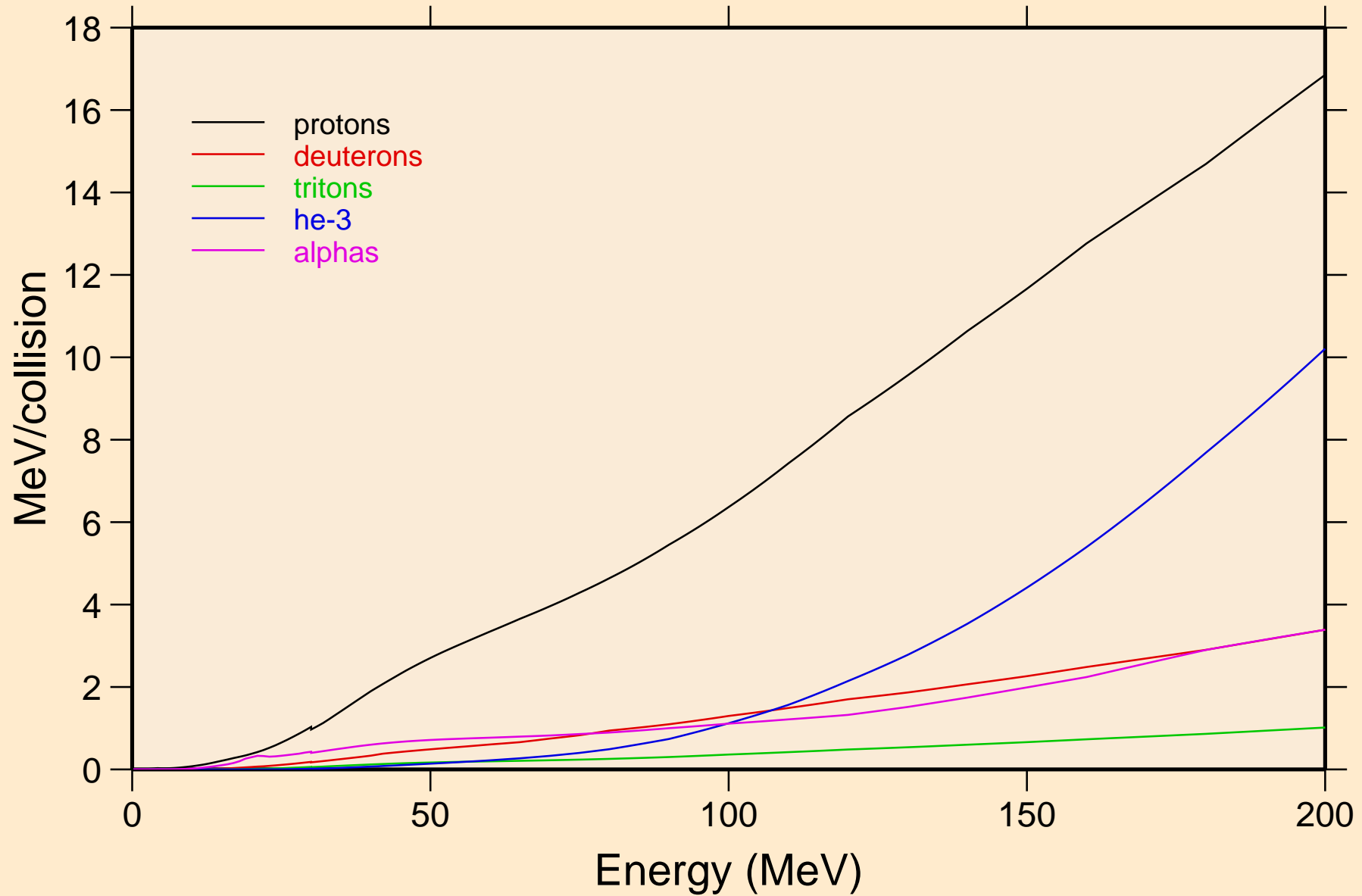


BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

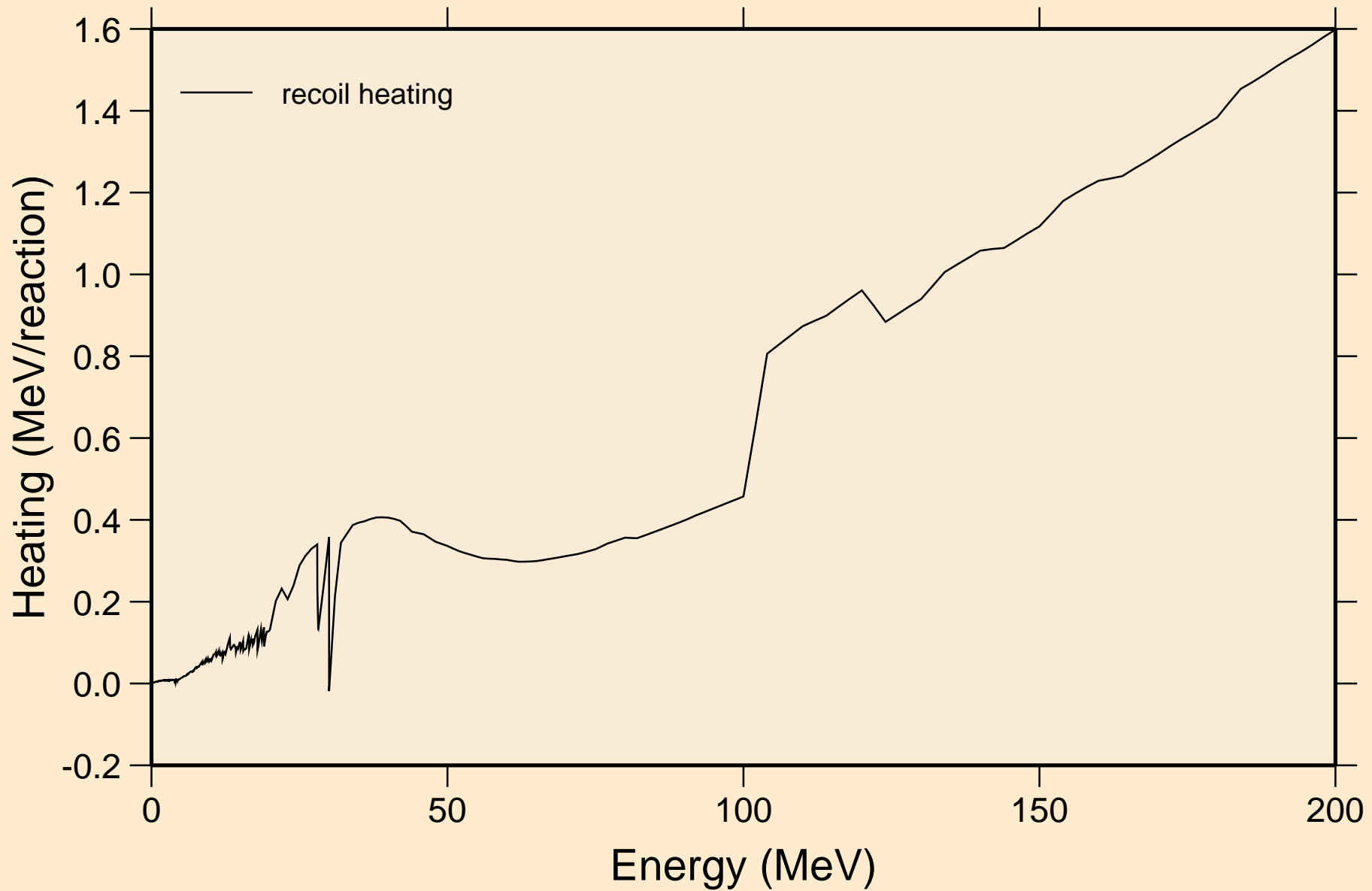


# BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

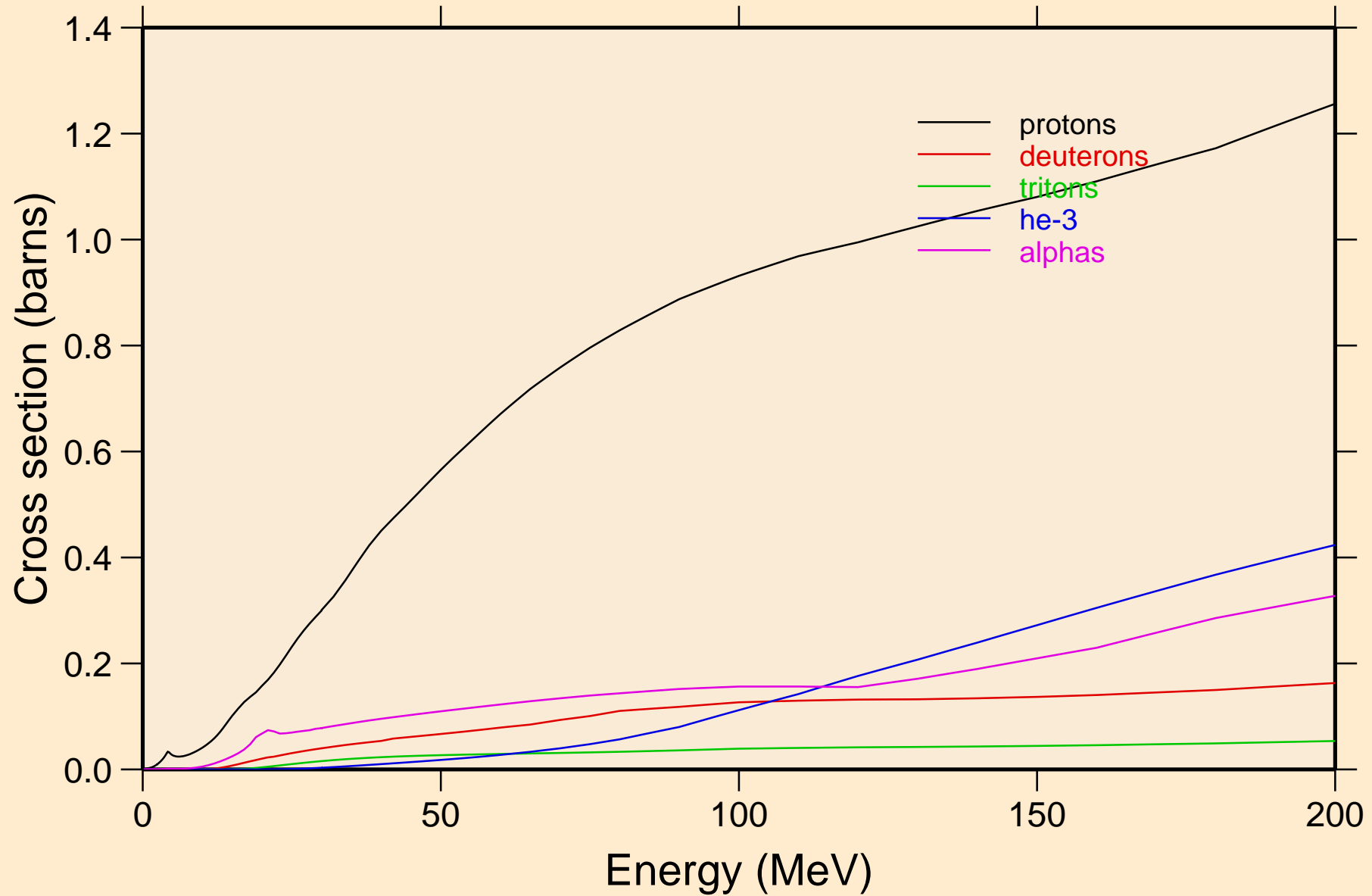
## Particle heating contributions



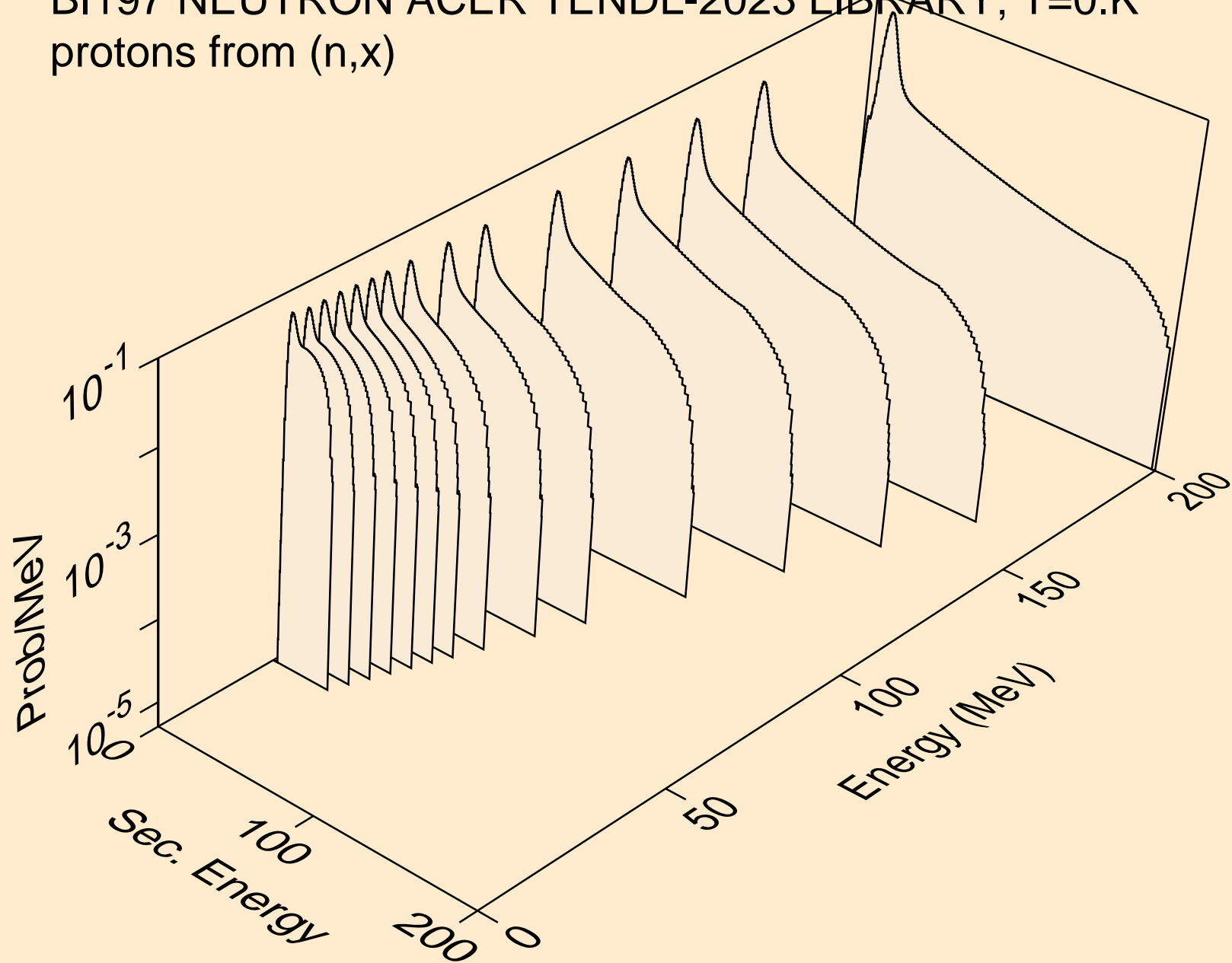
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Recoil Heating



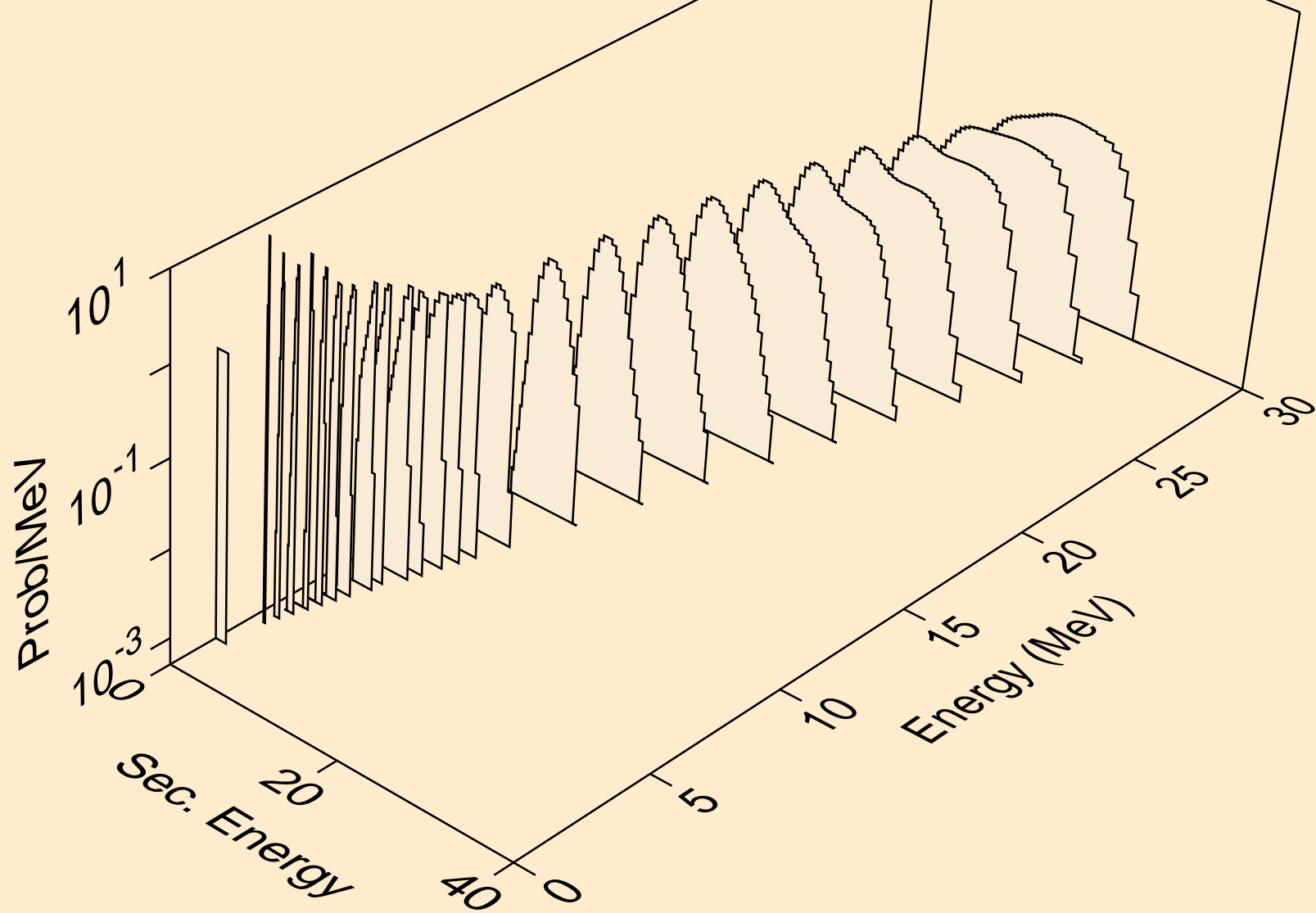
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



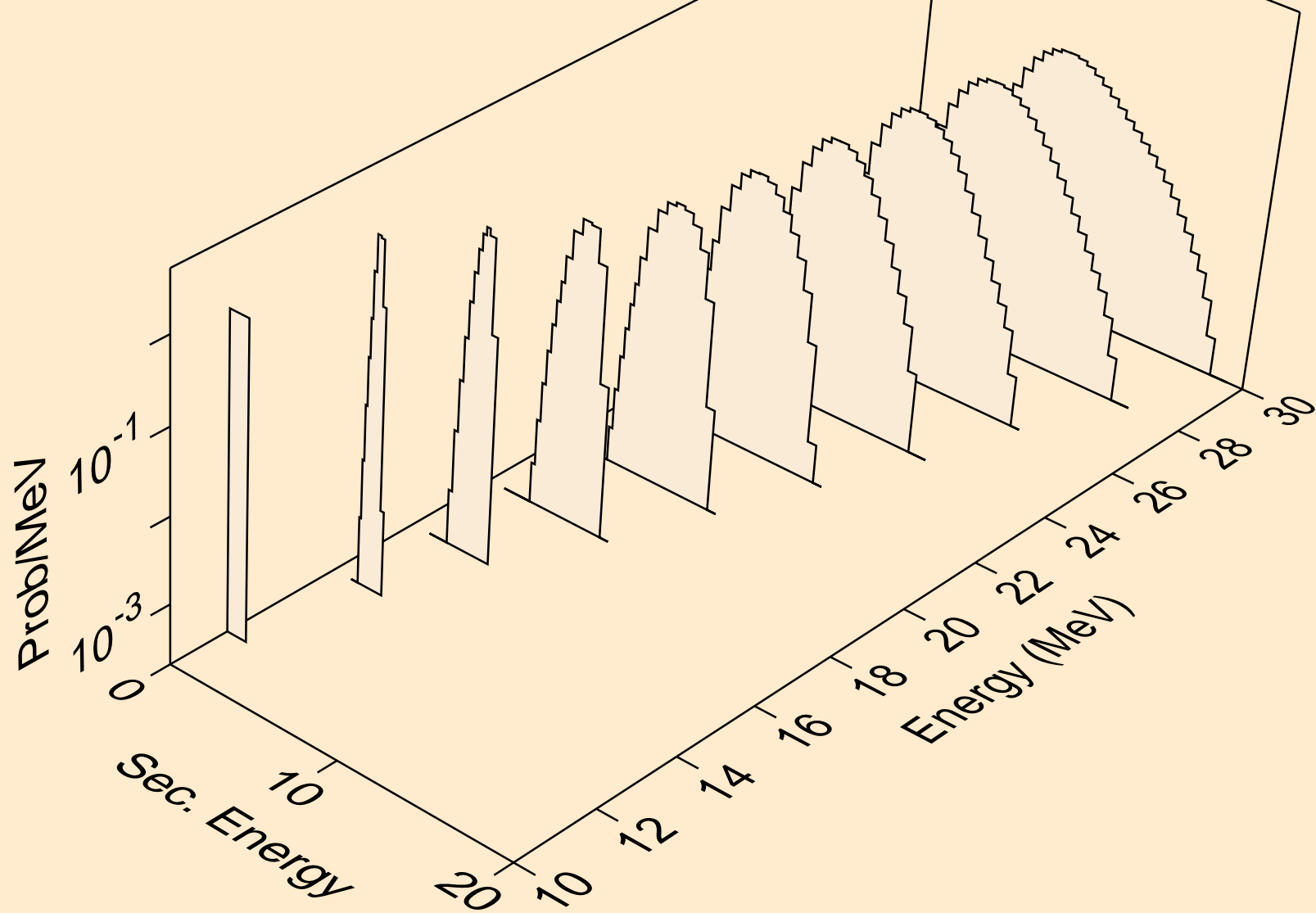
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



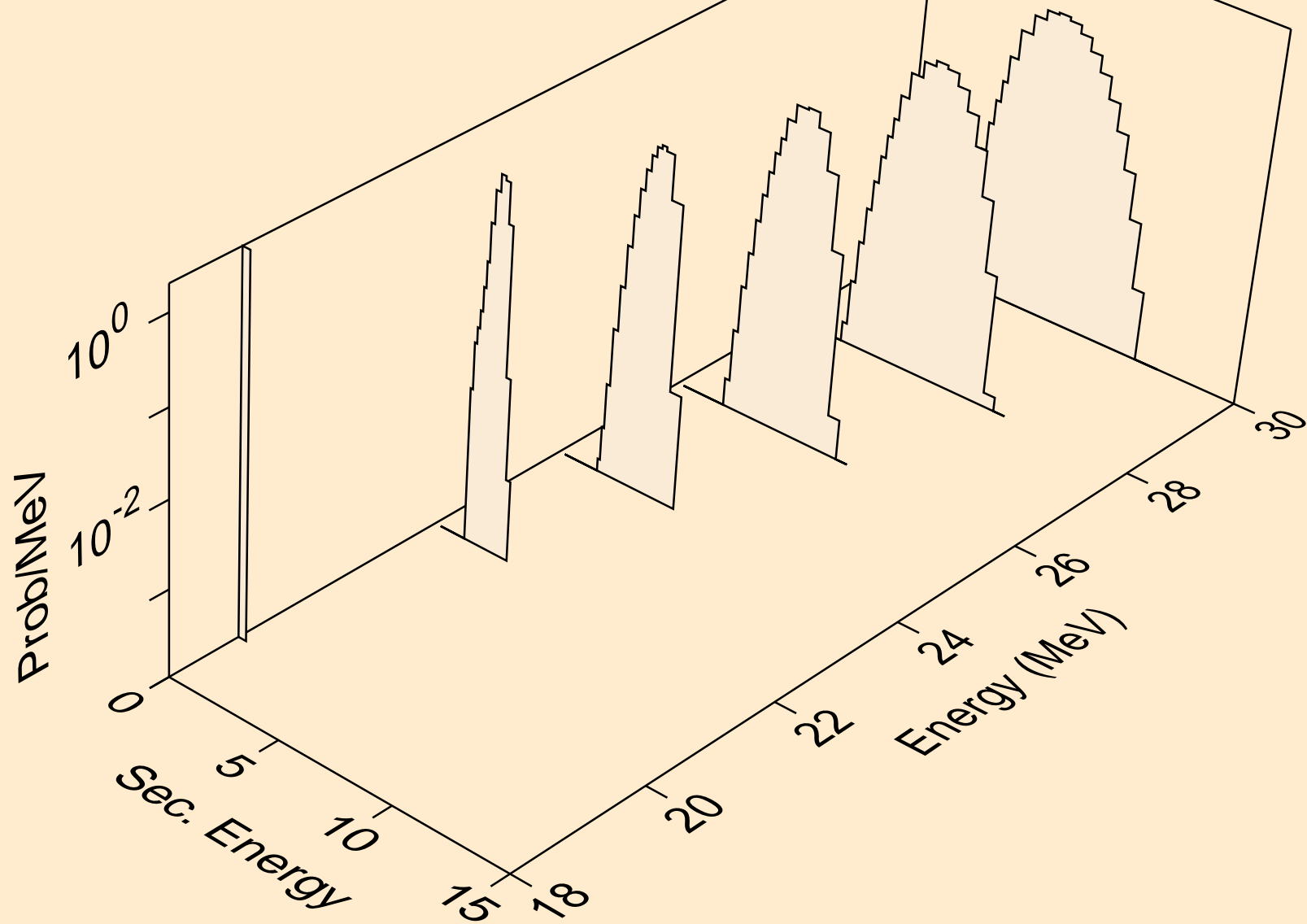
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)

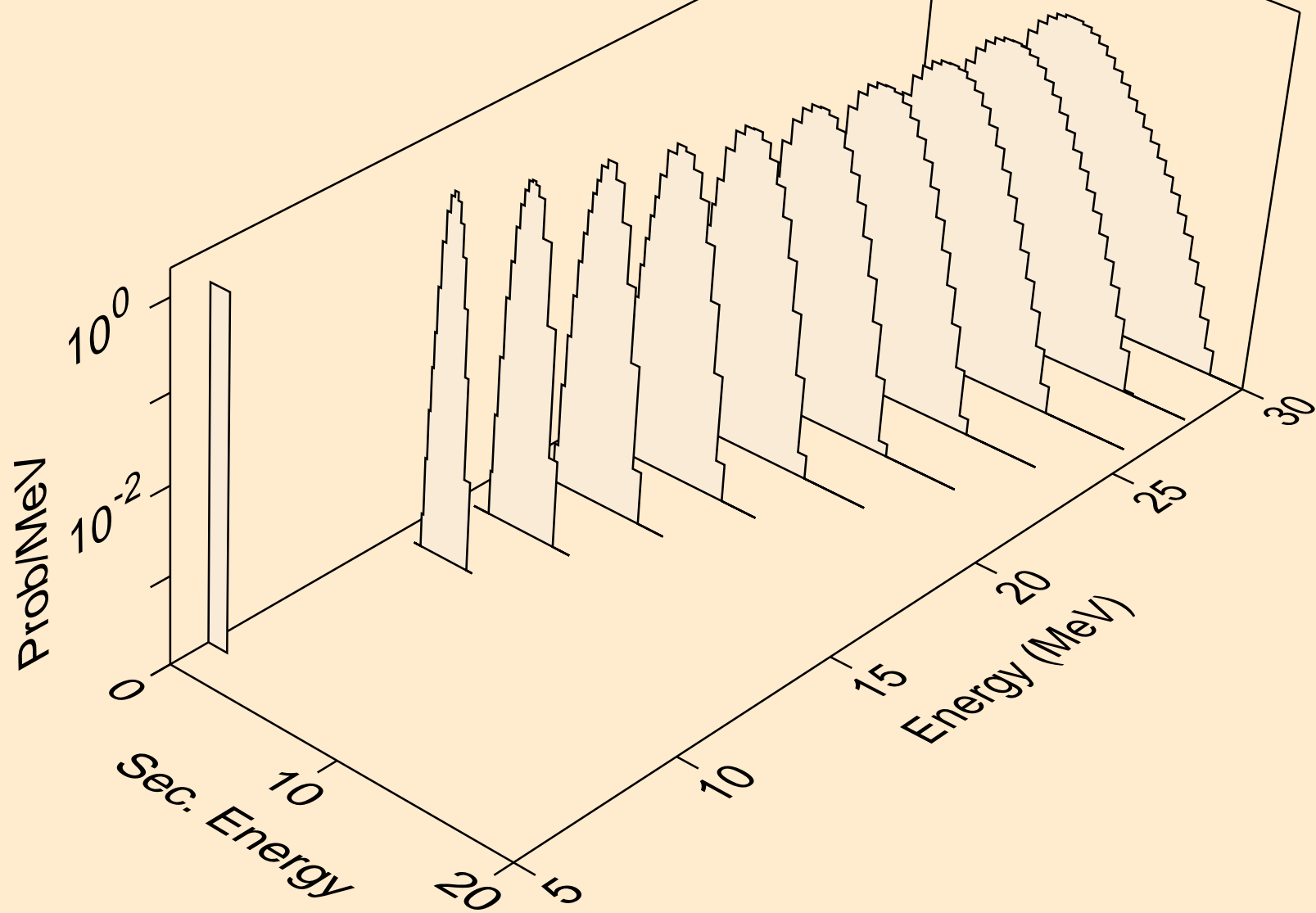


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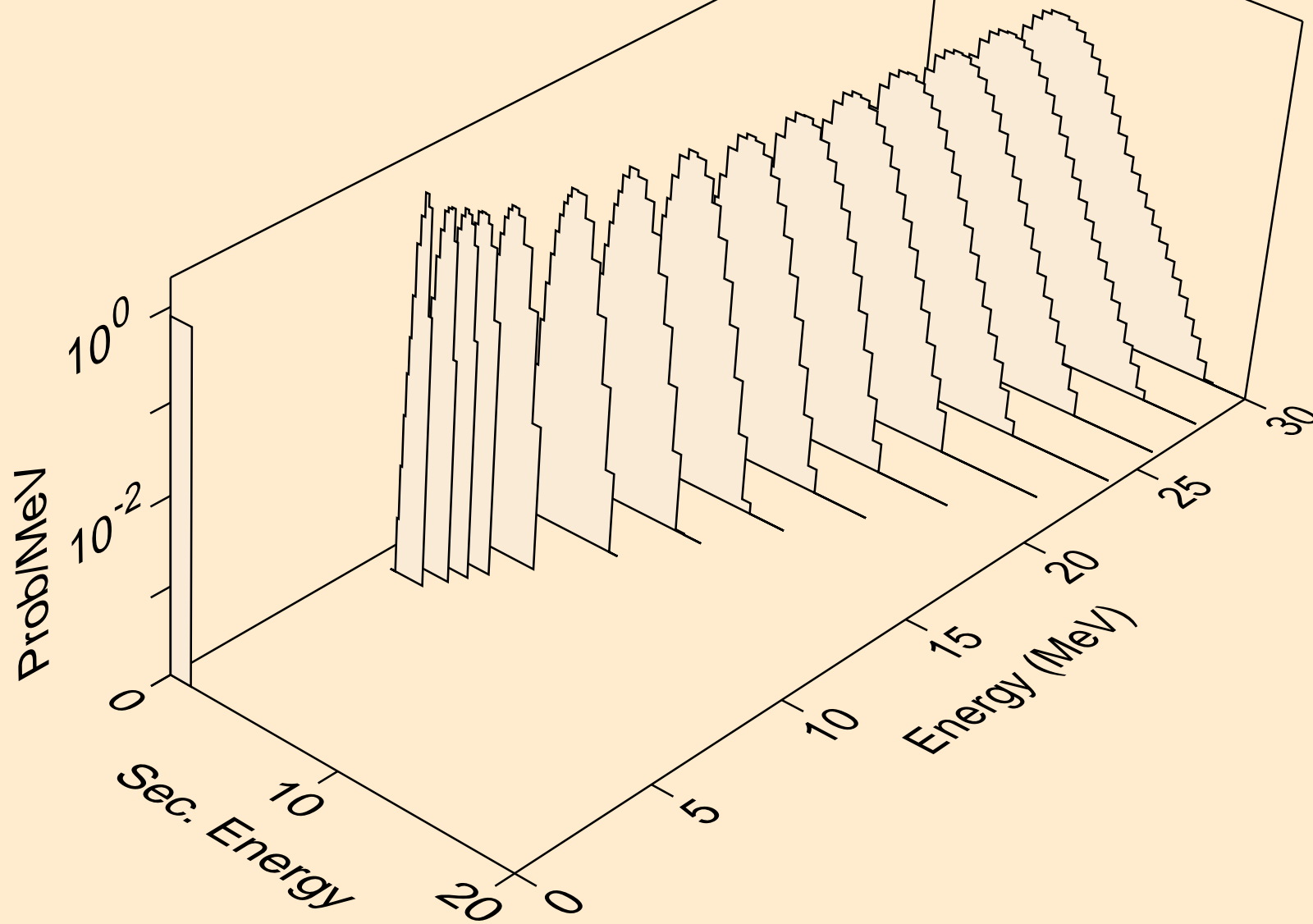




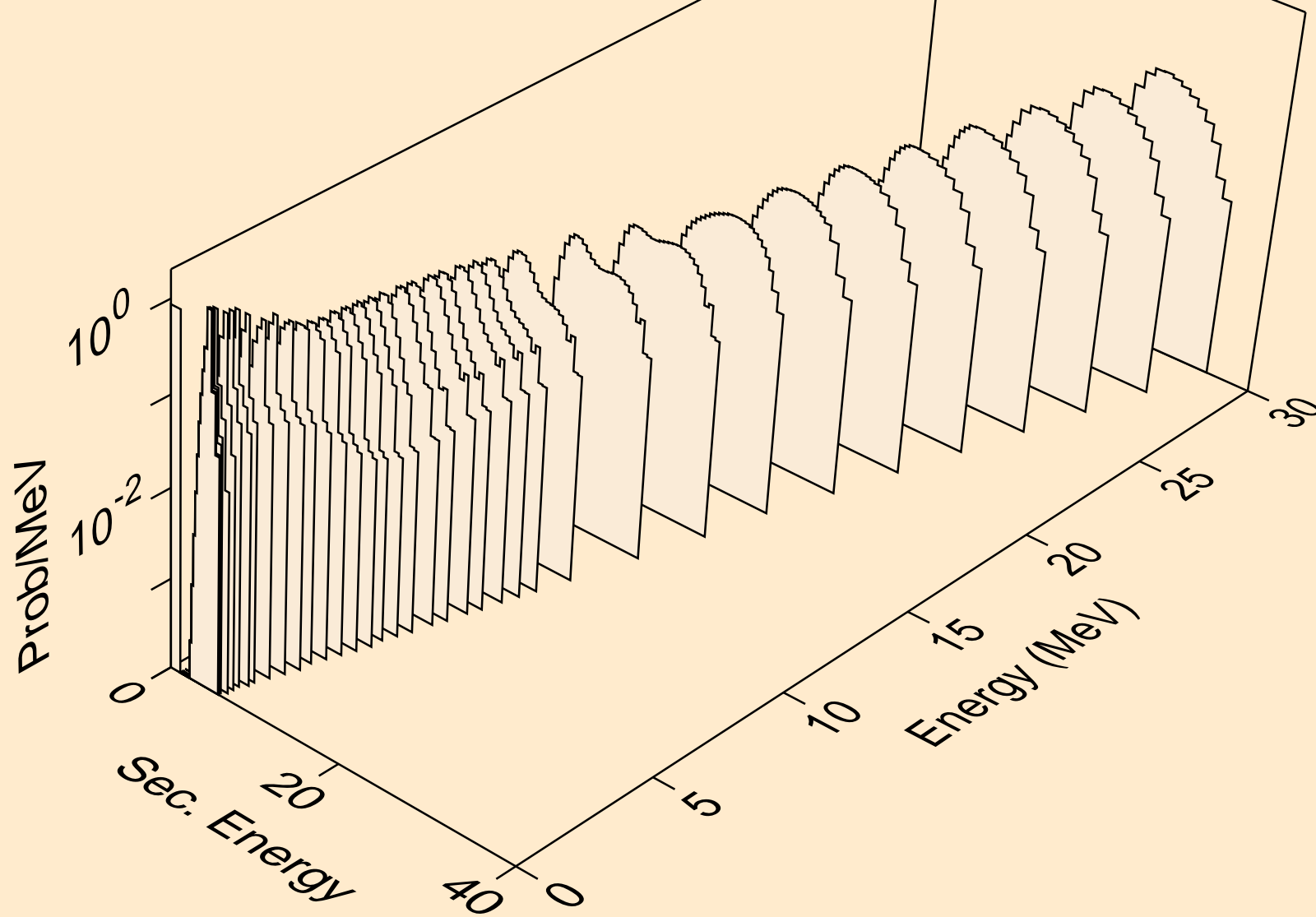
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protons from (n,n2p)



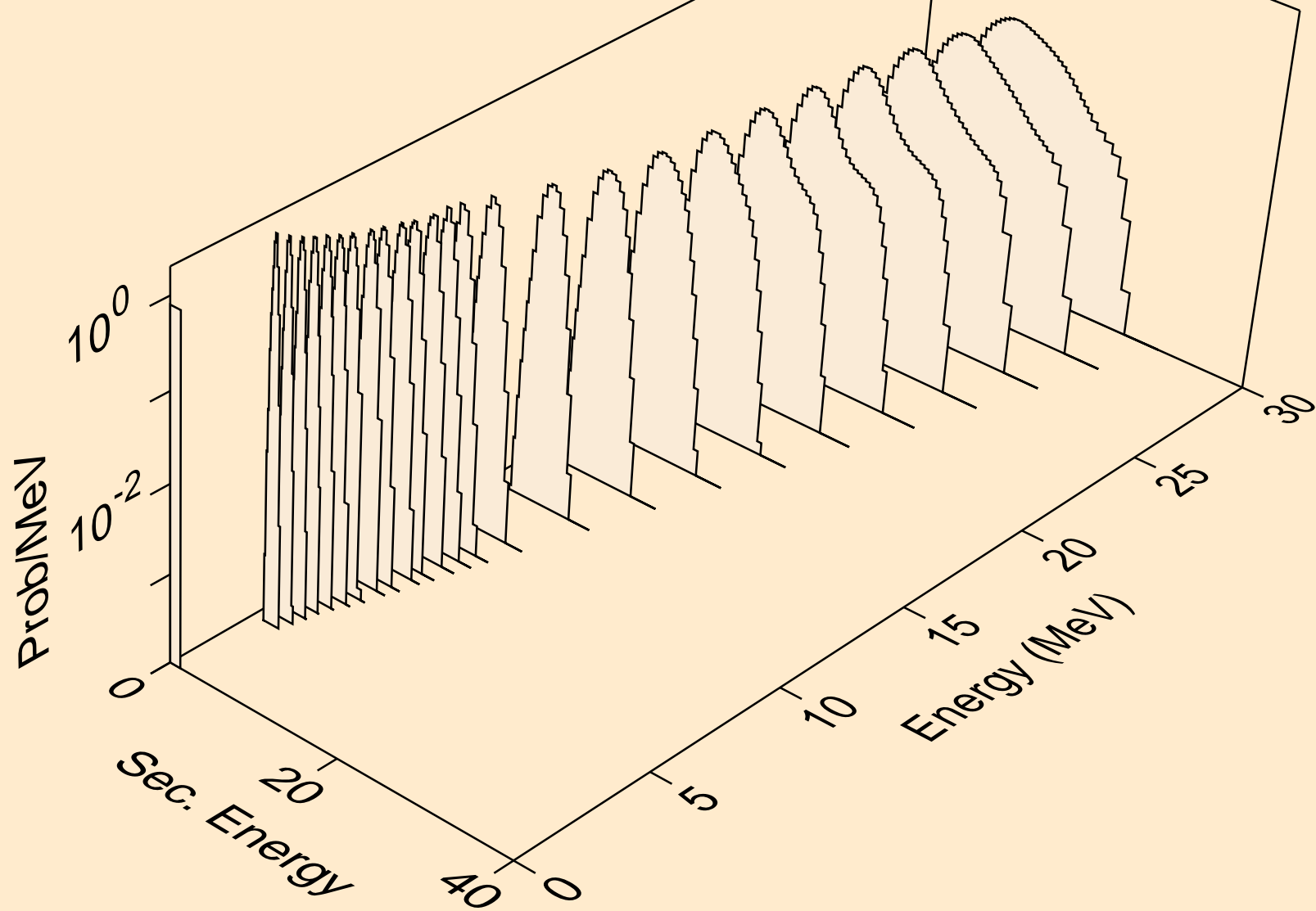
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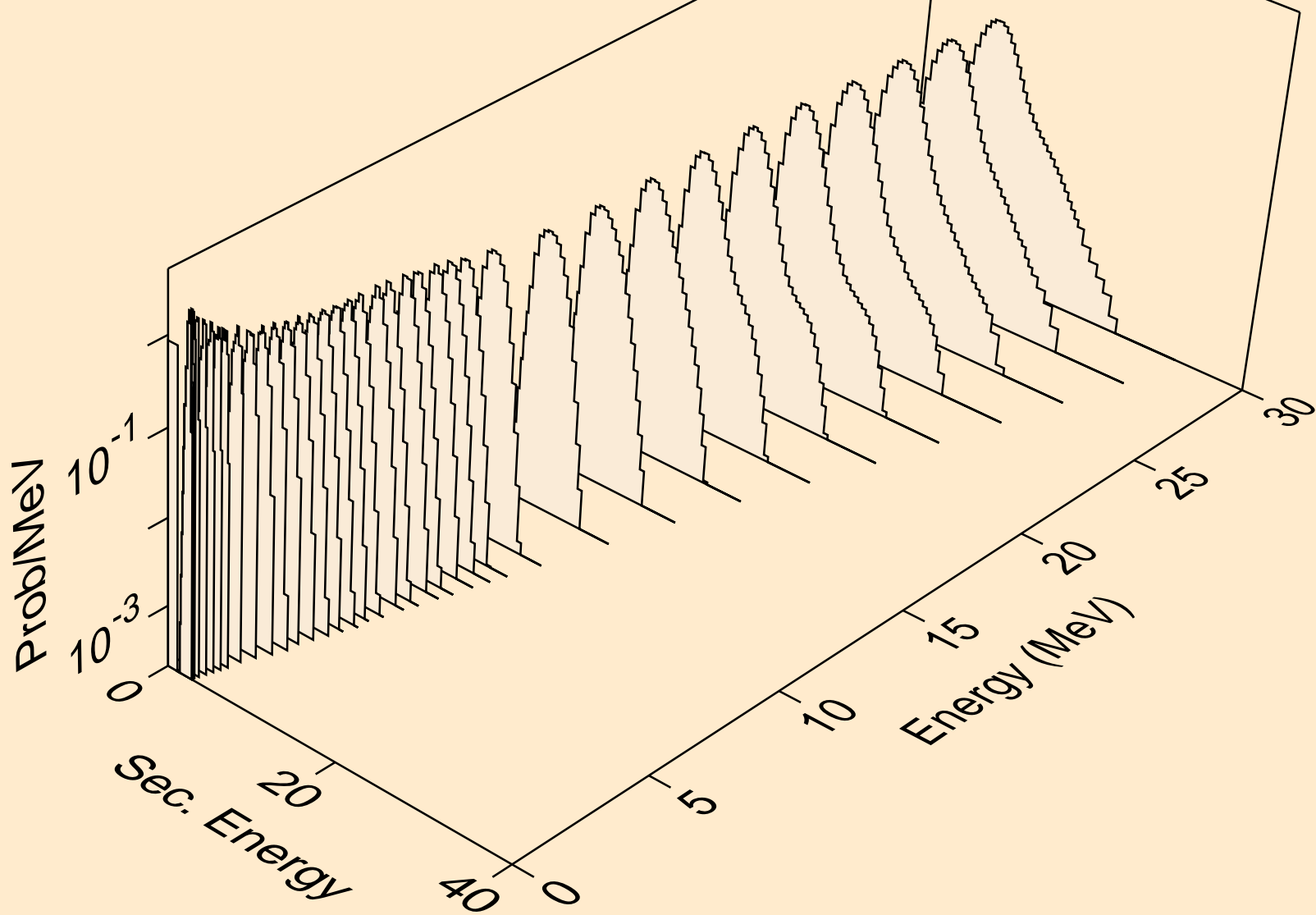
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protons from (n,p)



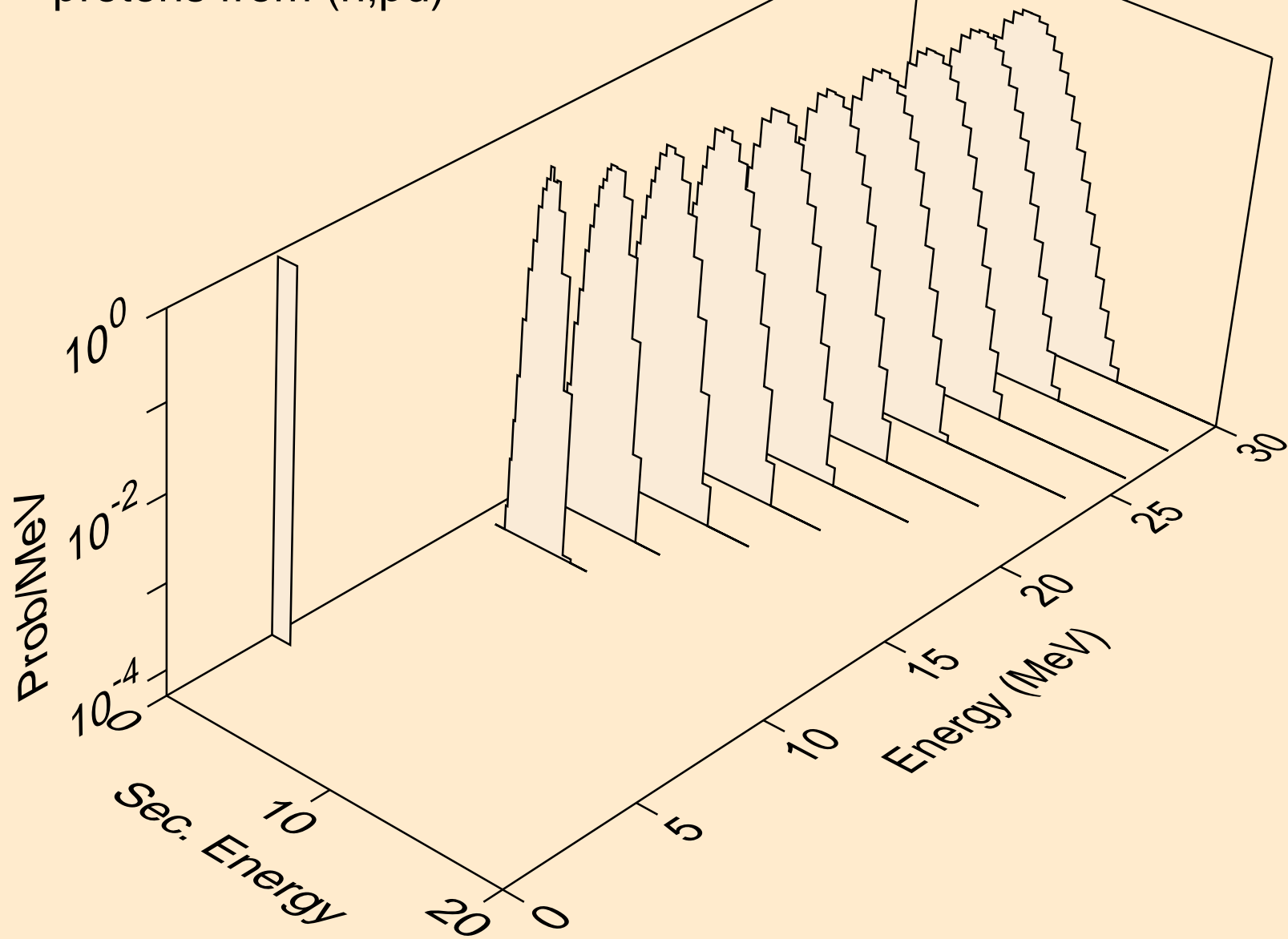
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protons from (n,2p)



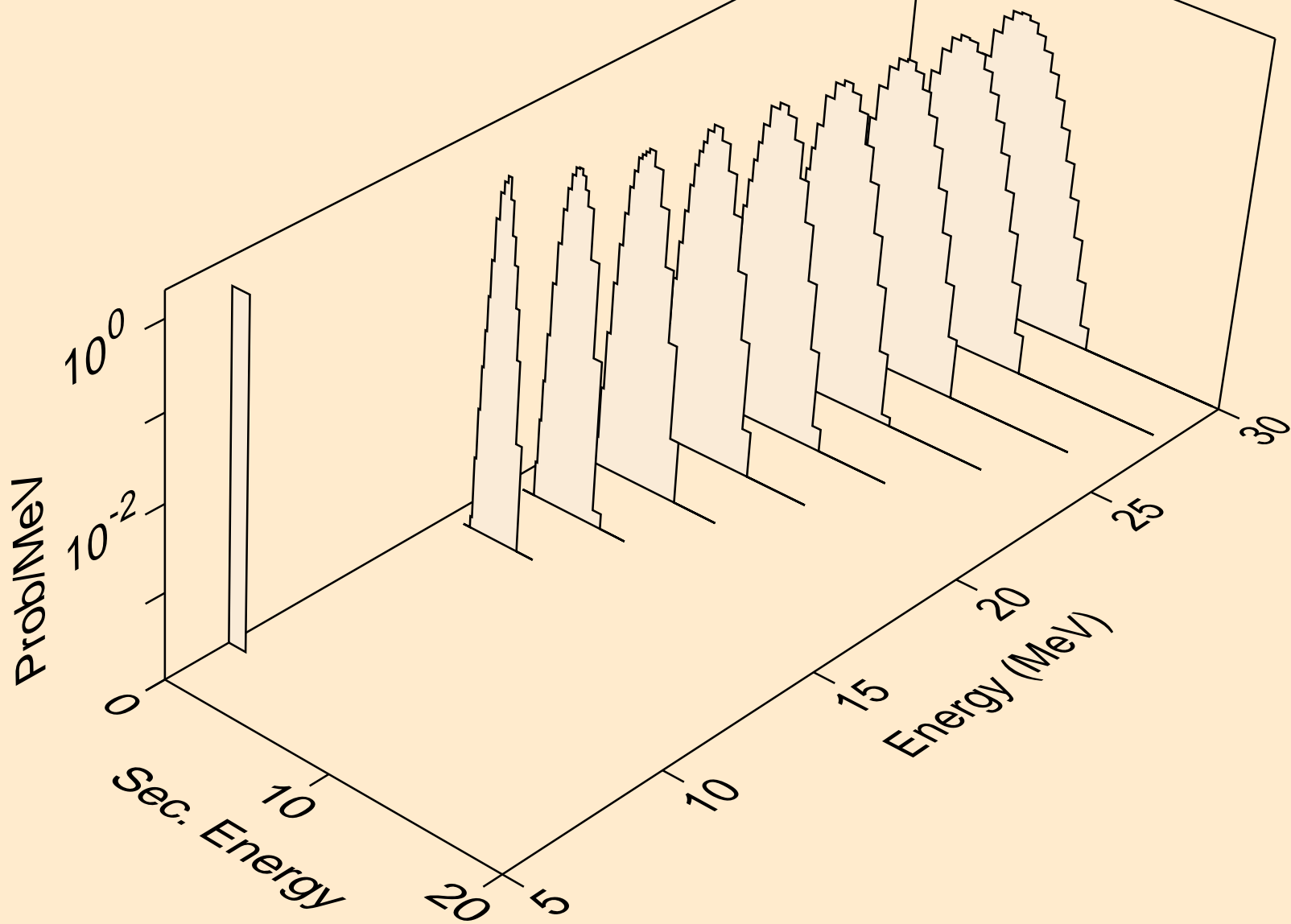
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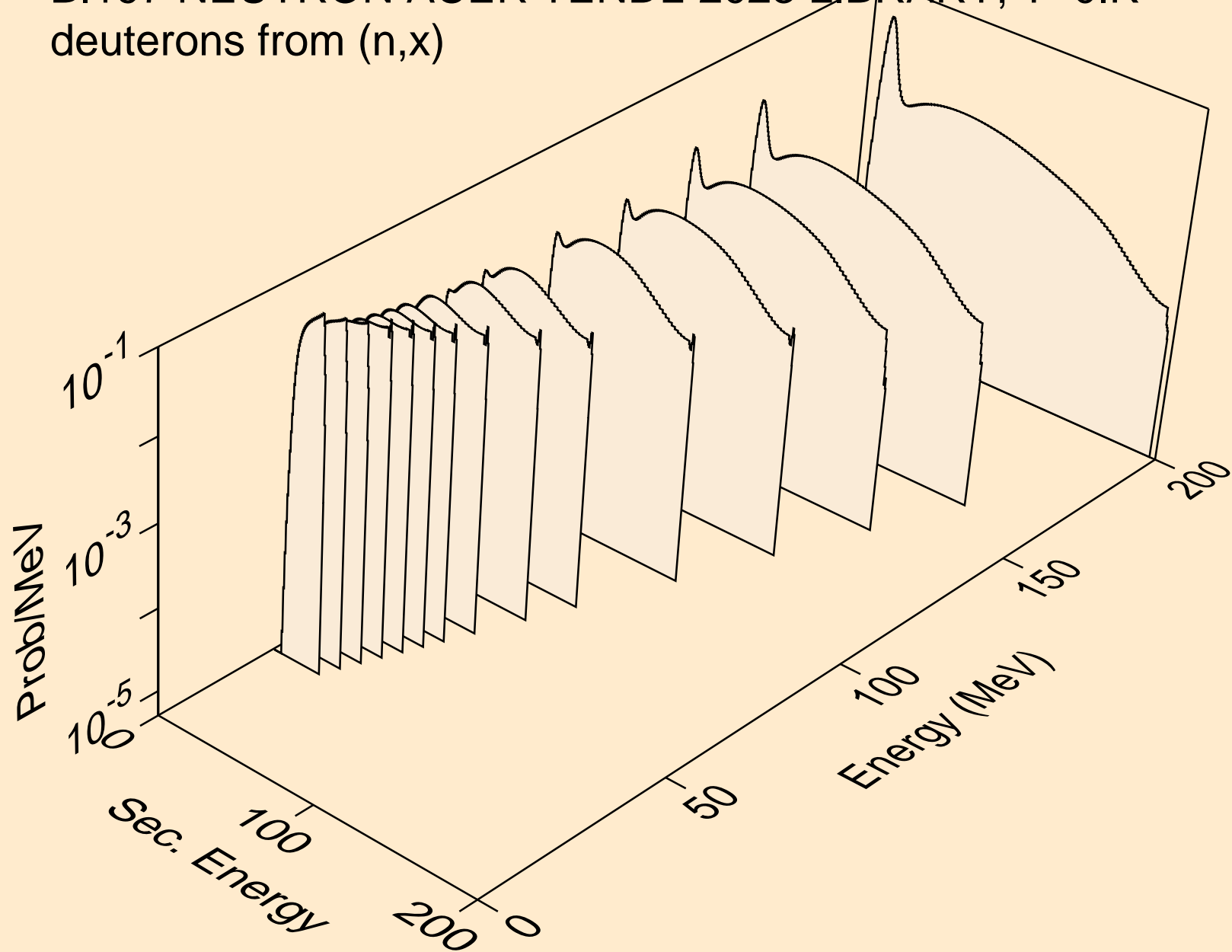
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protons from (n,pd)



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pt)

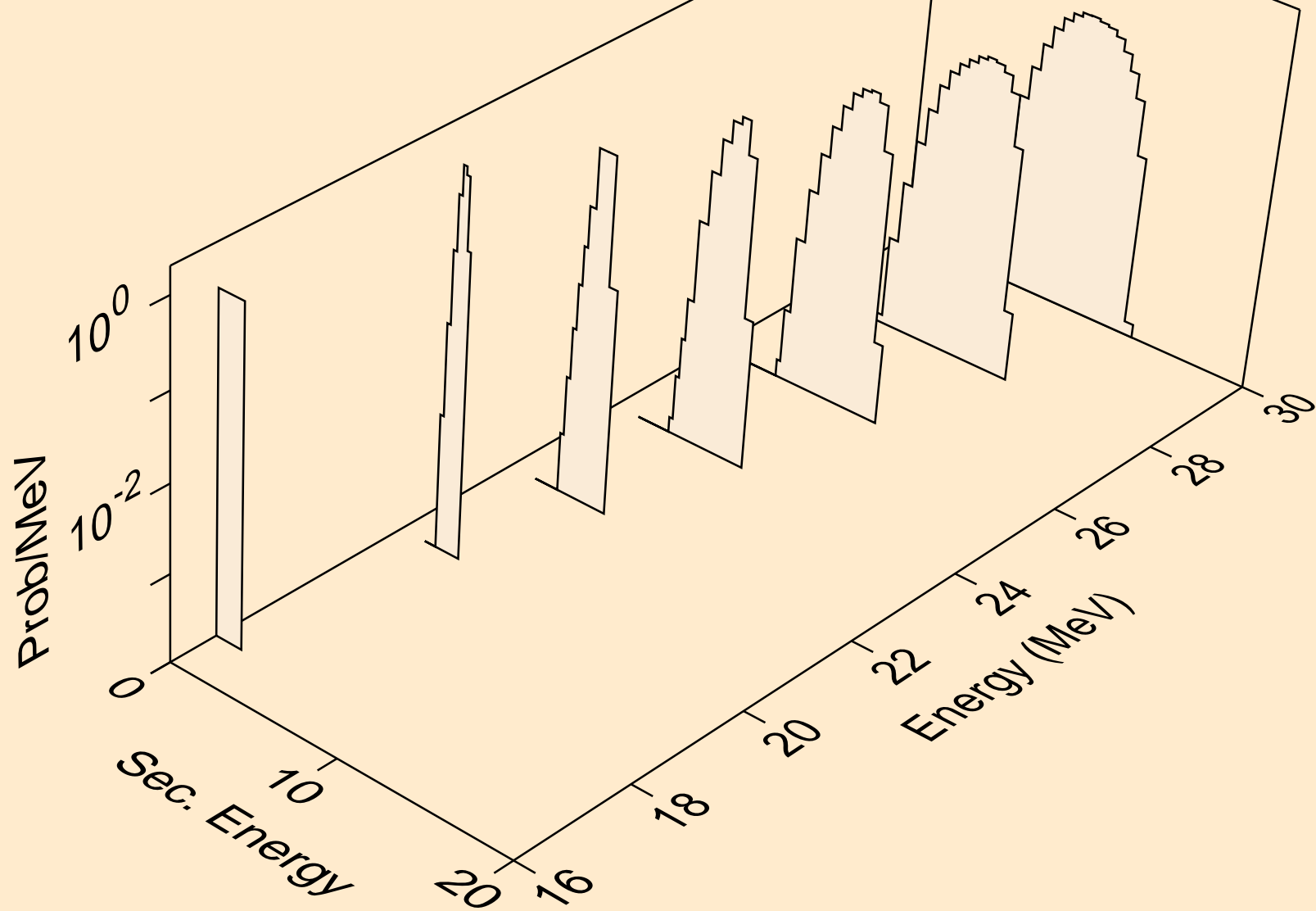


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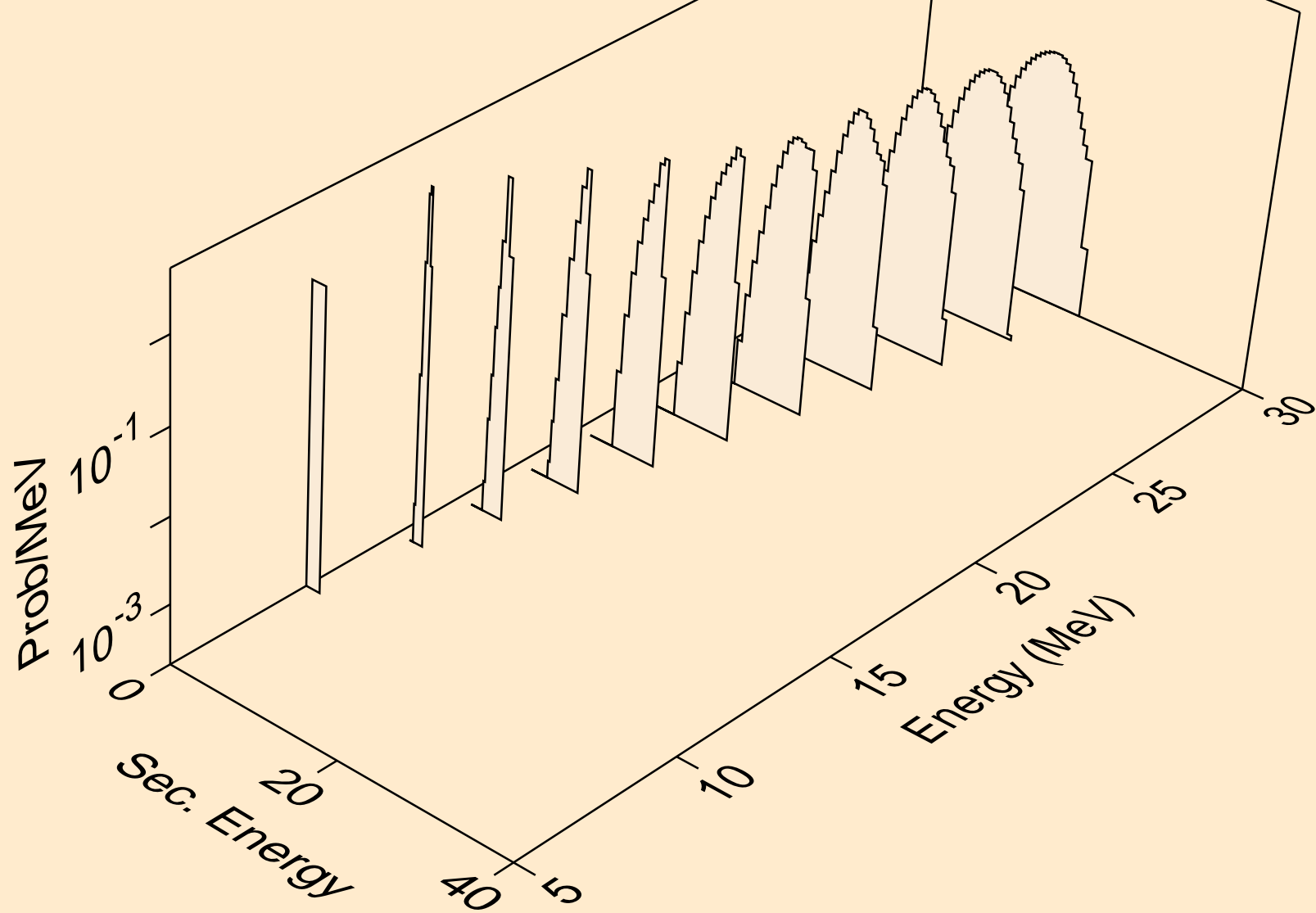




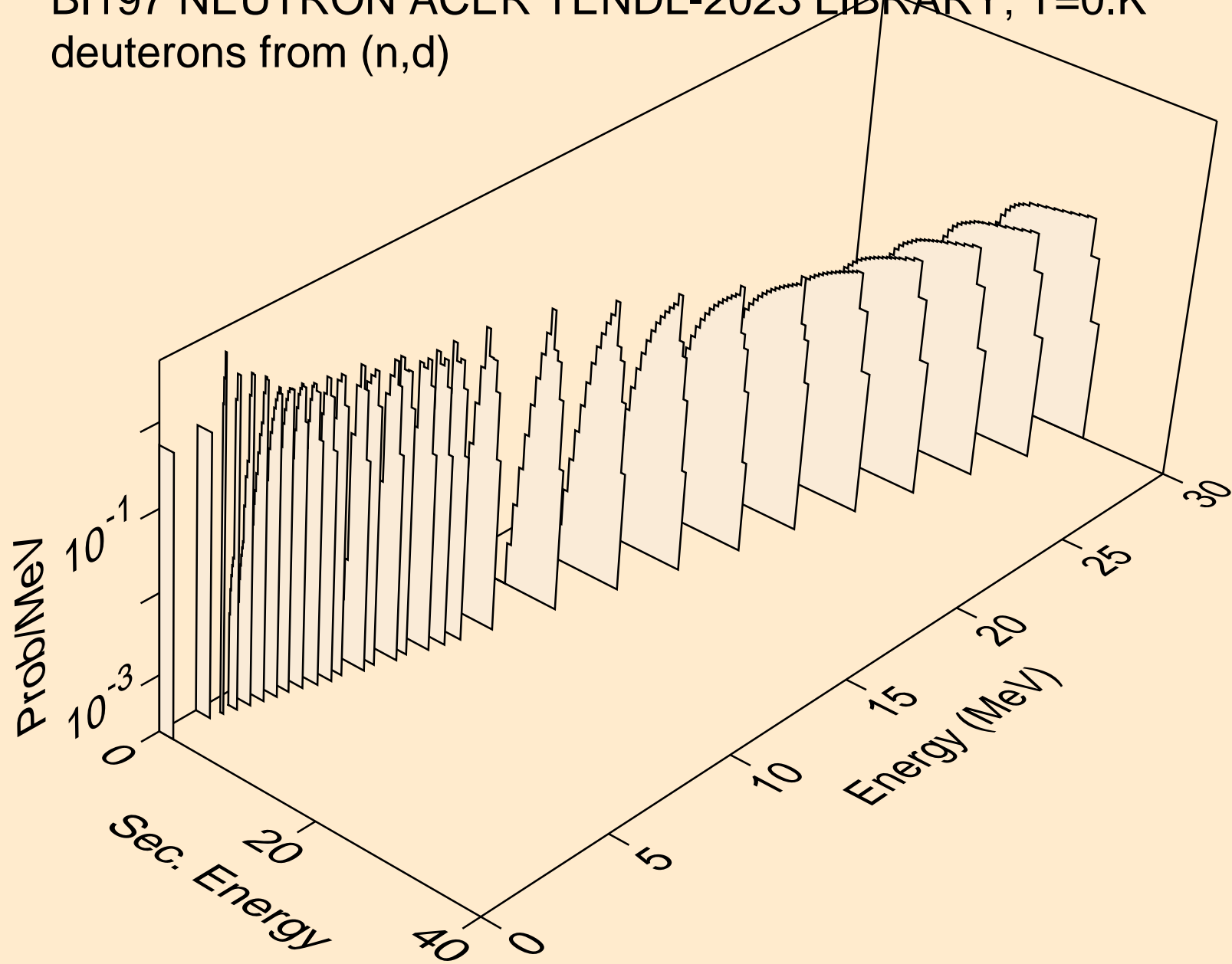
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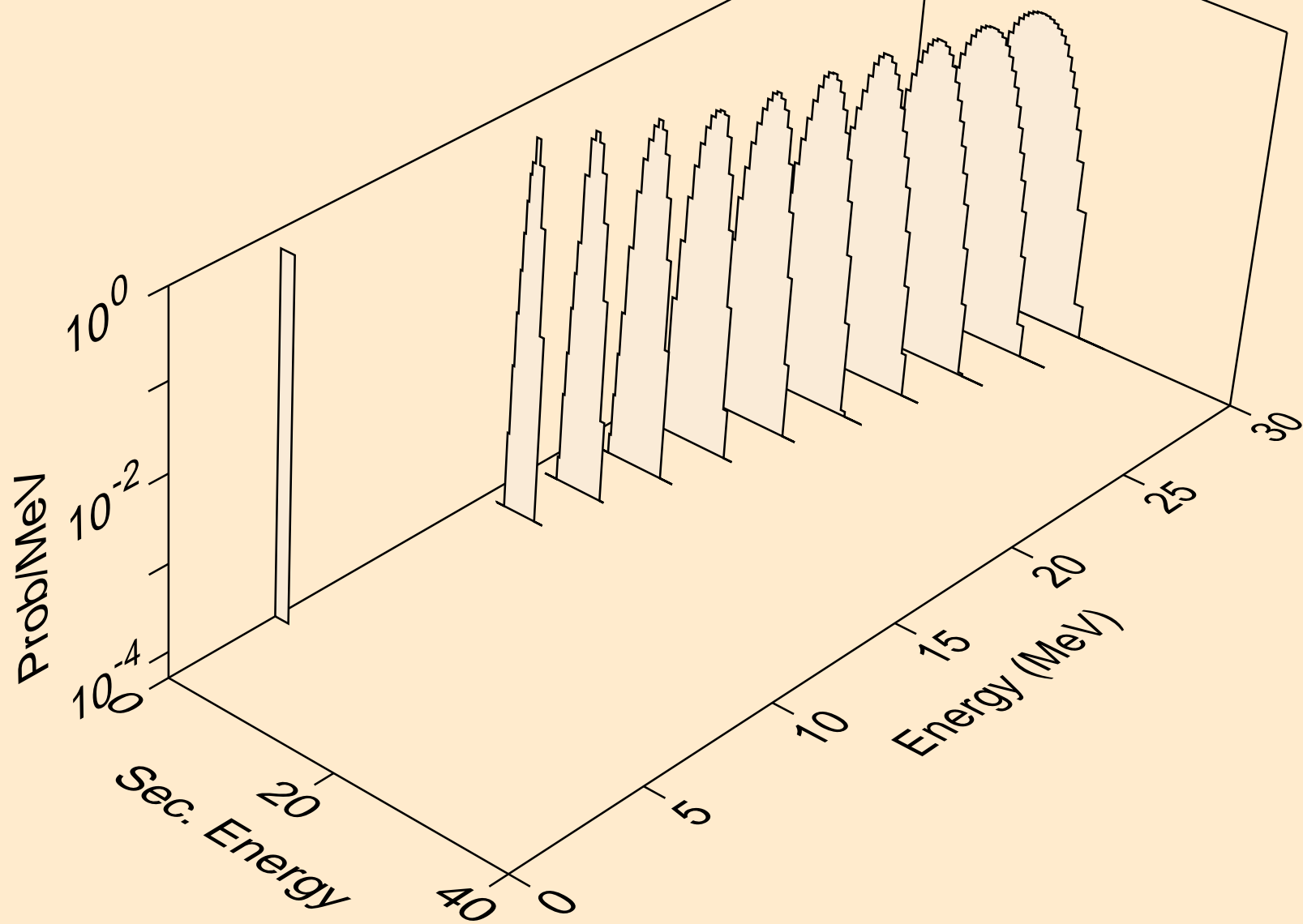
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deuterons from (n,n\*)d



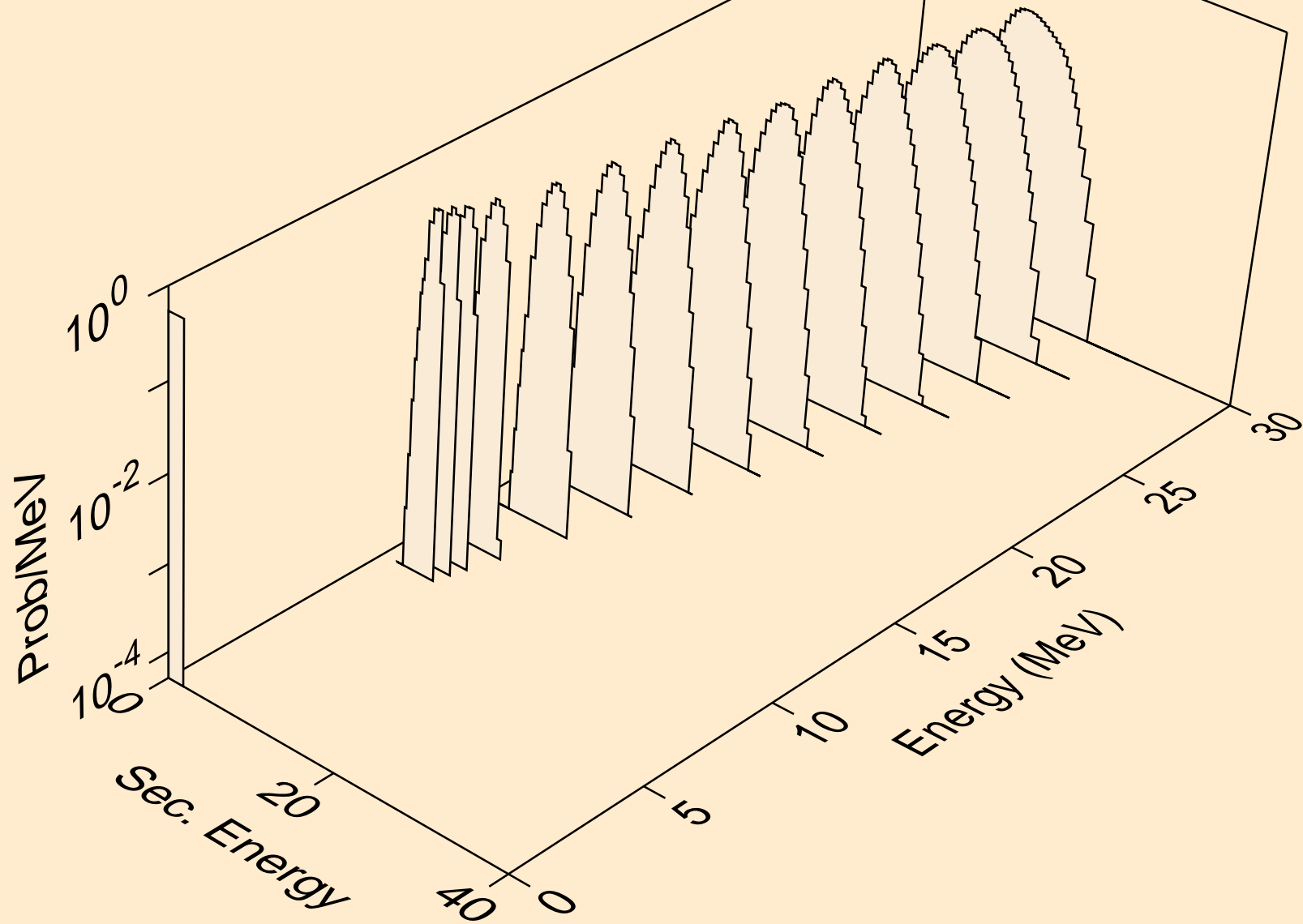
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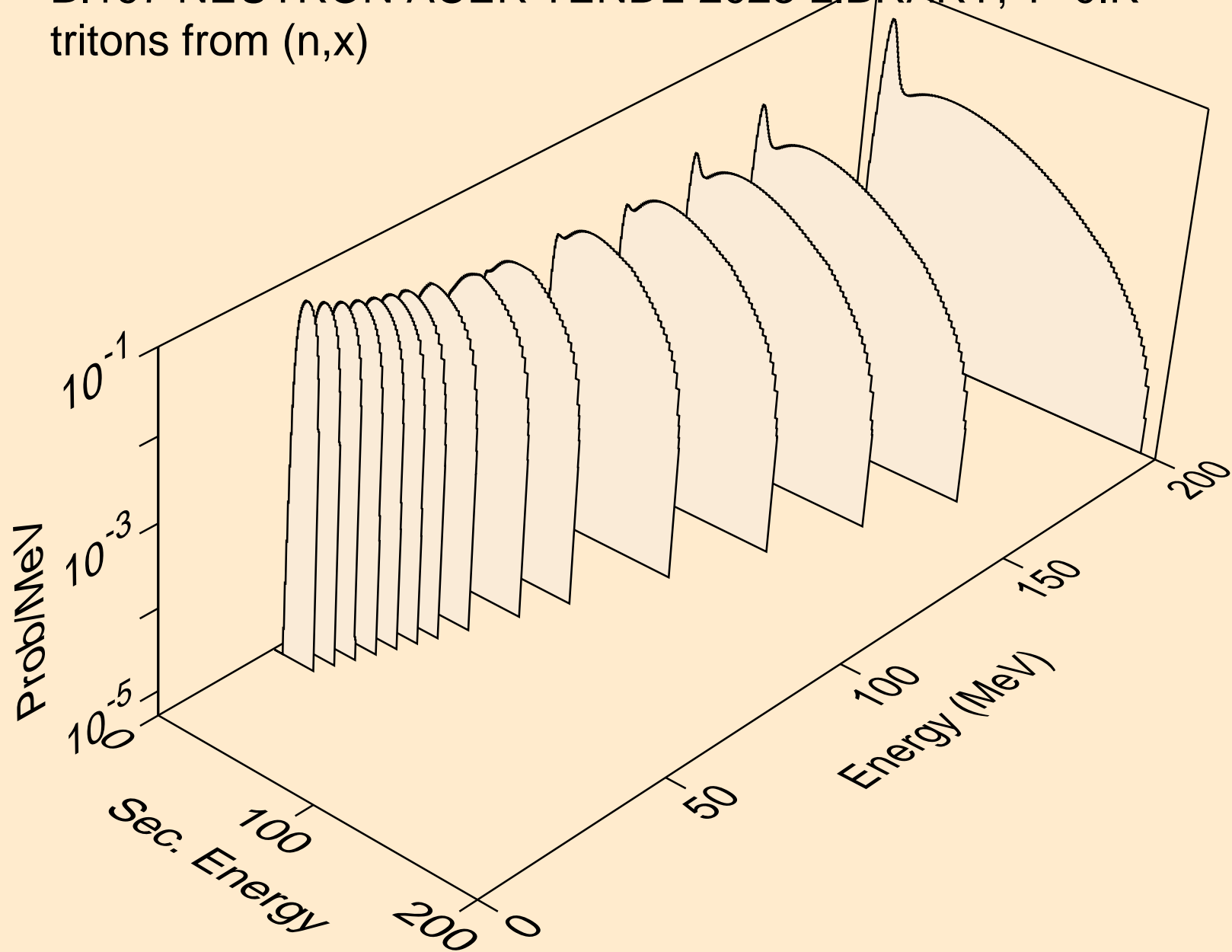
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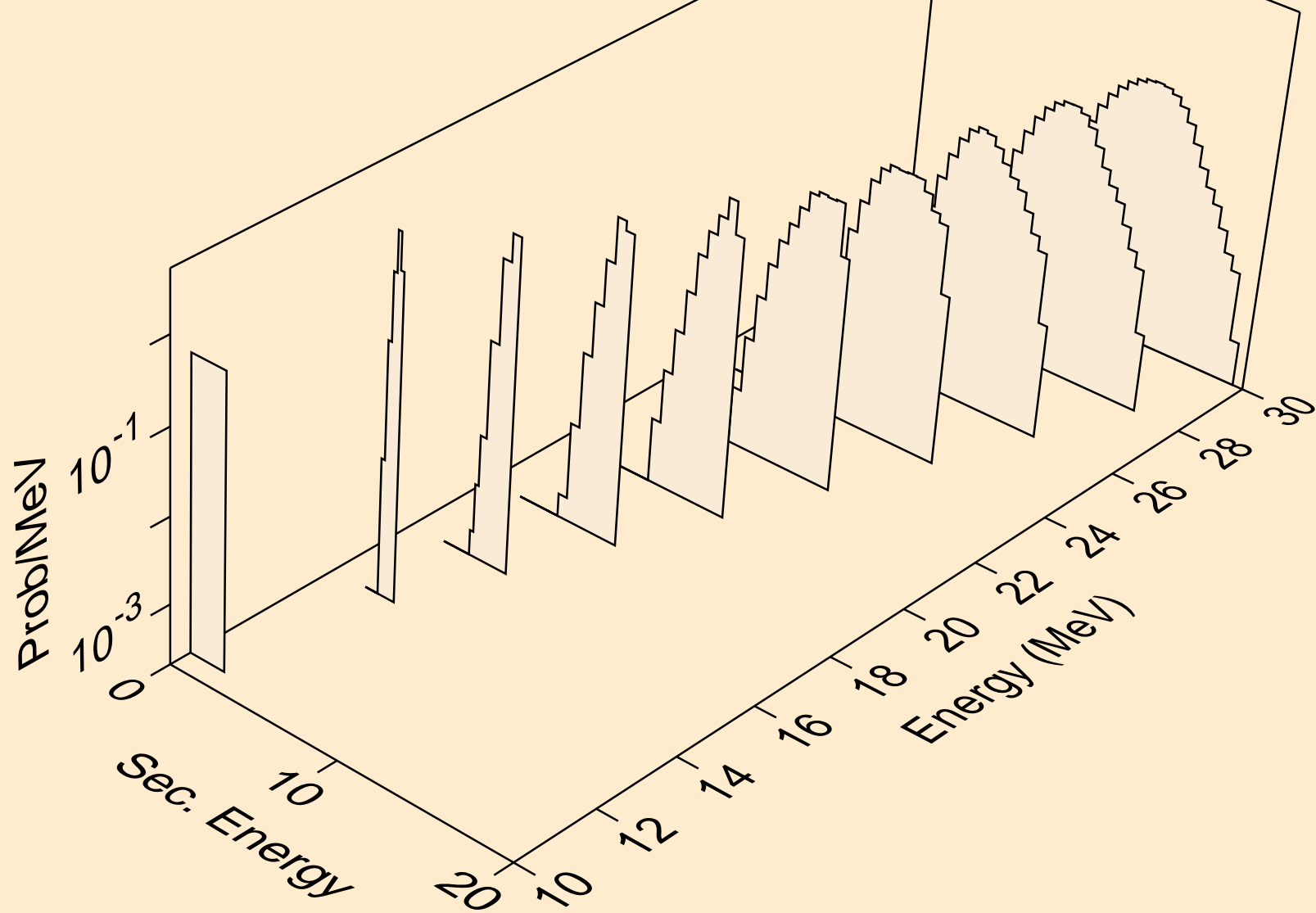
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deuterons from (n,da)



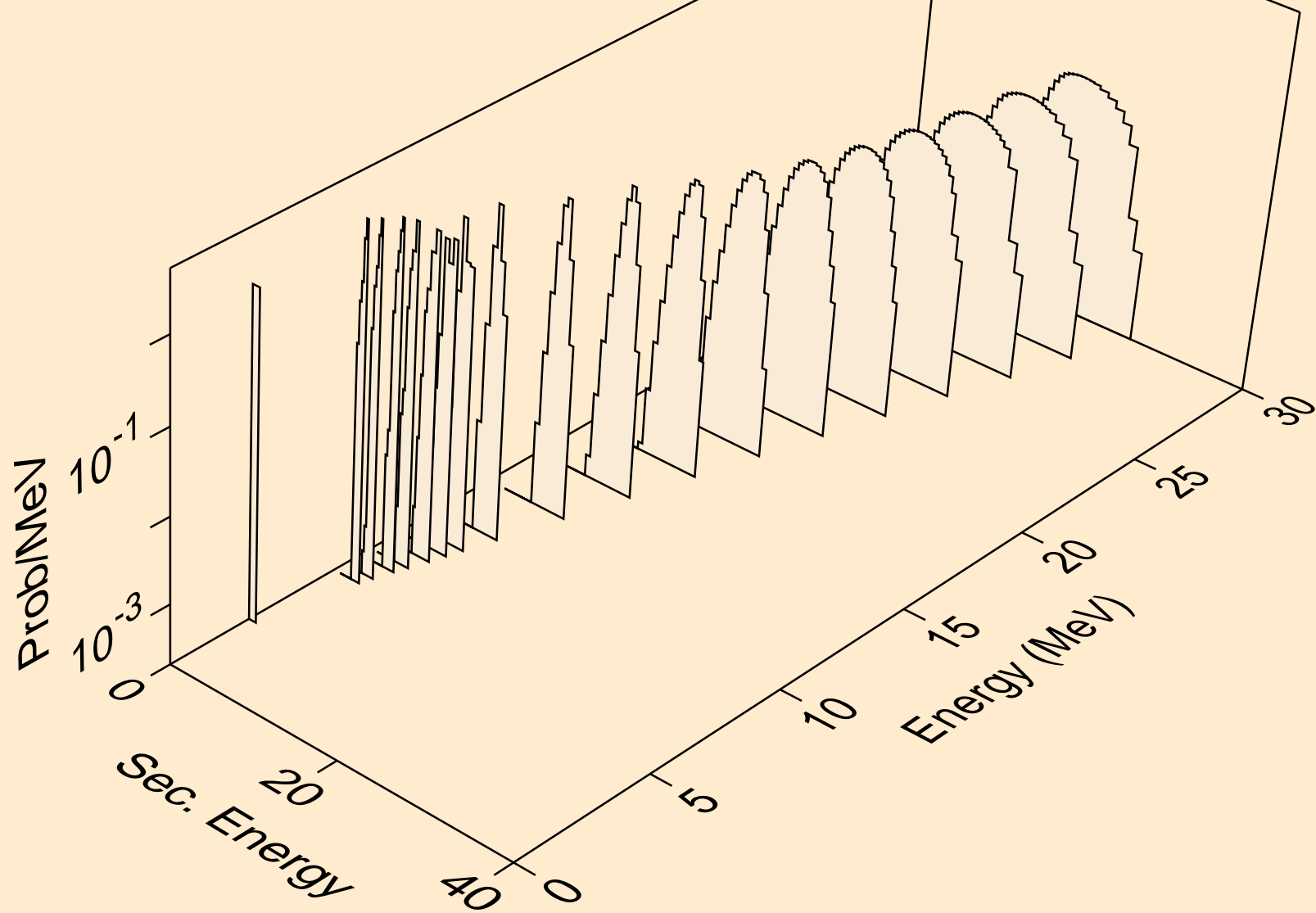
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t

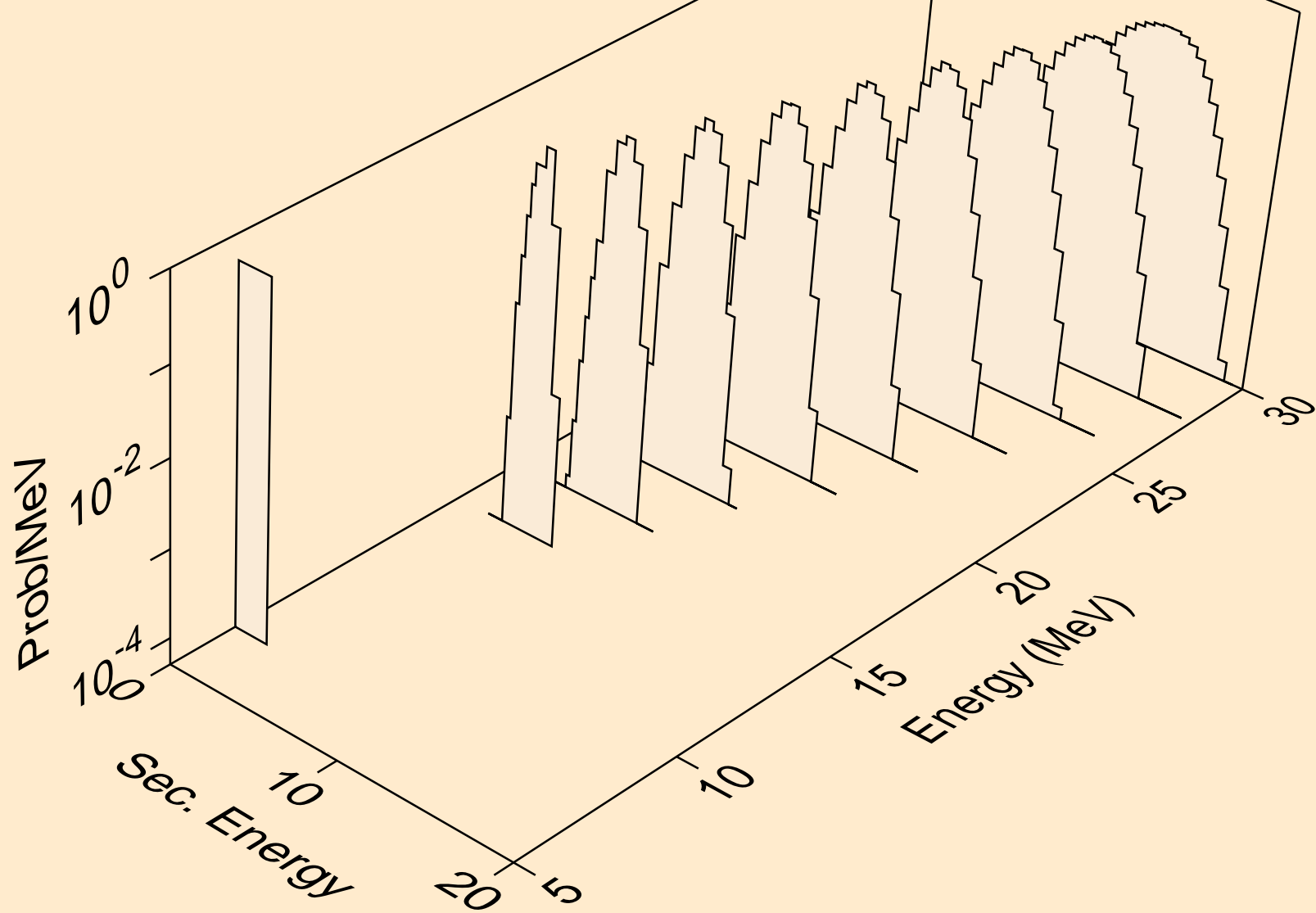


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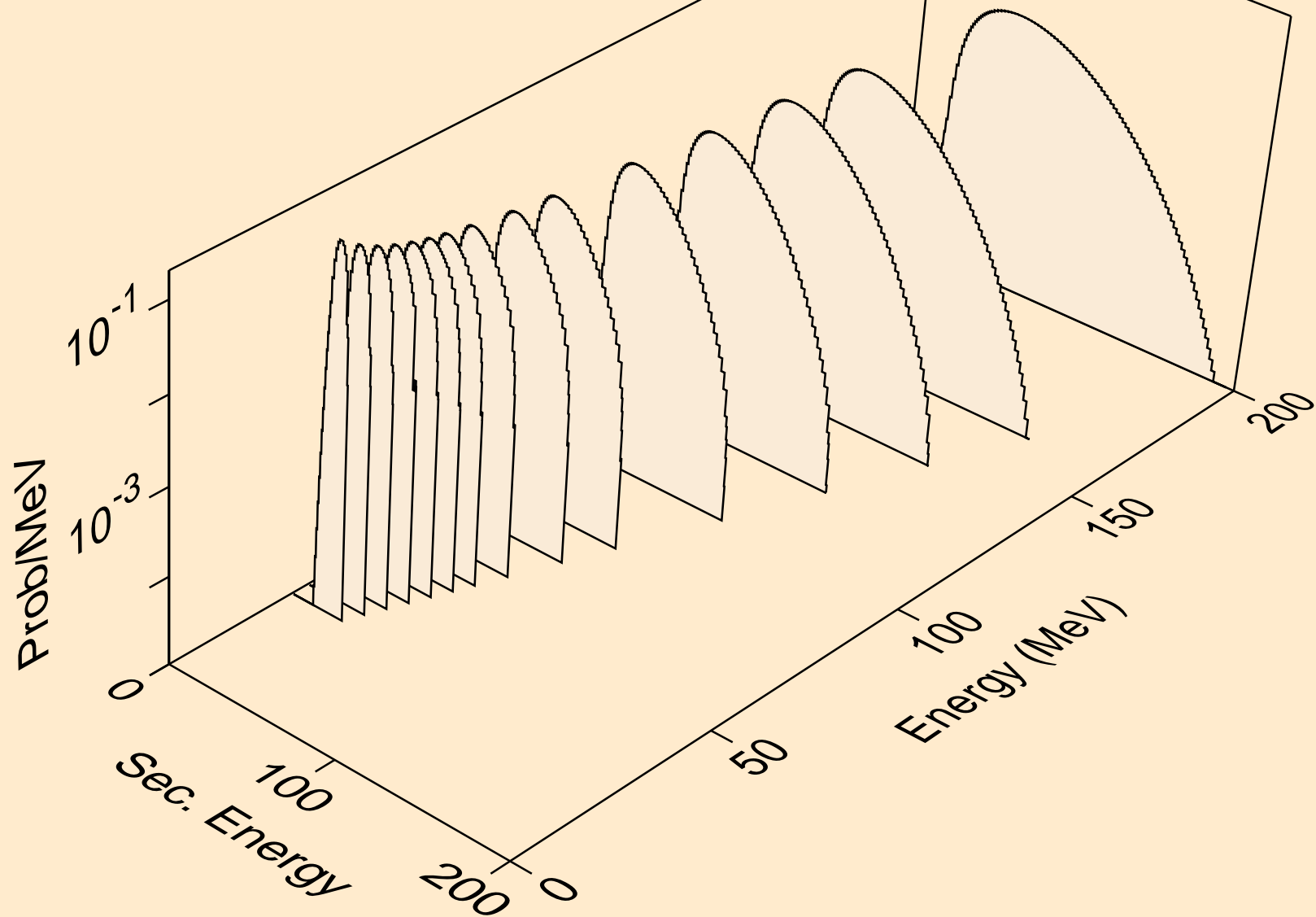




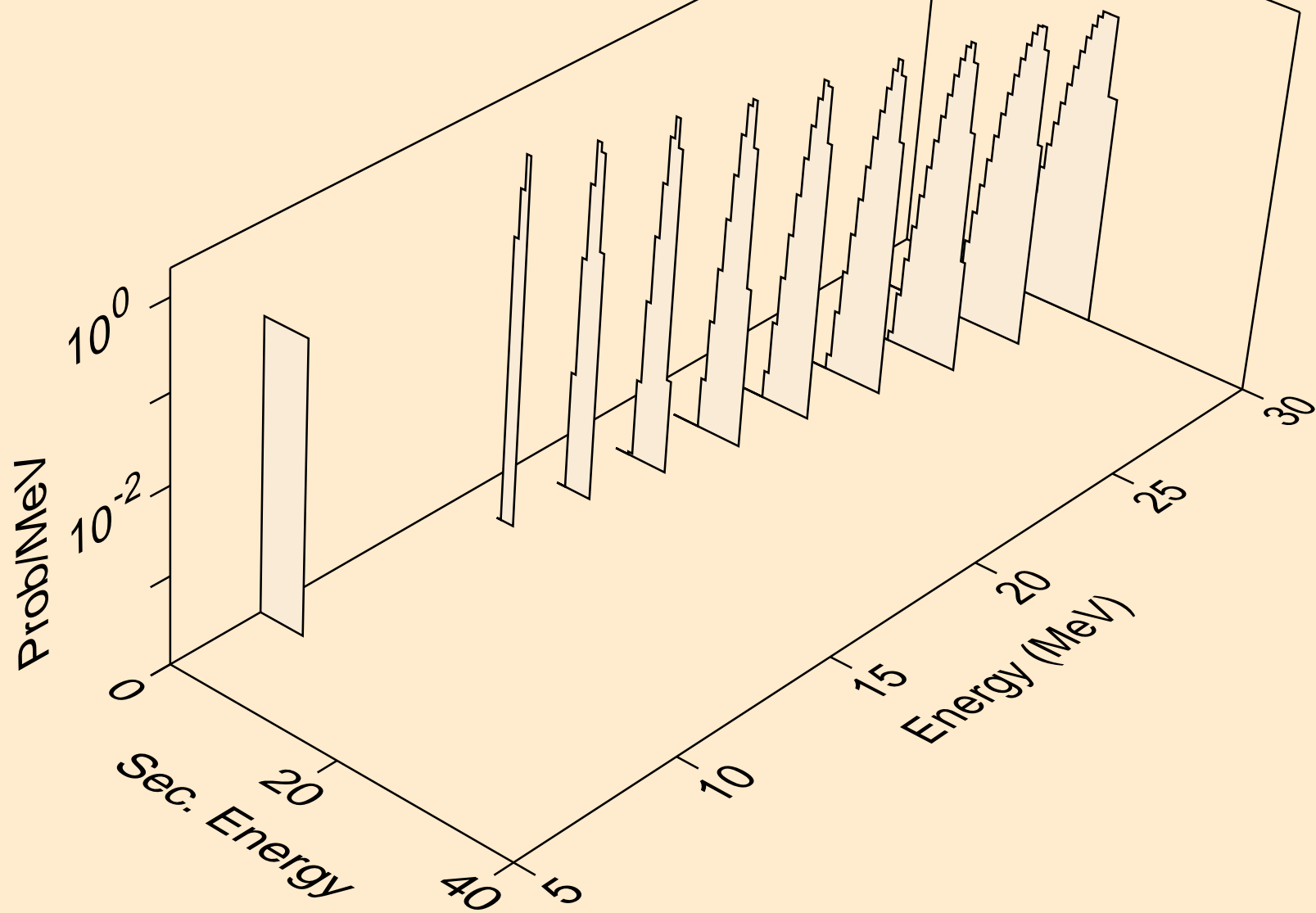
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tritons from (n,pt)



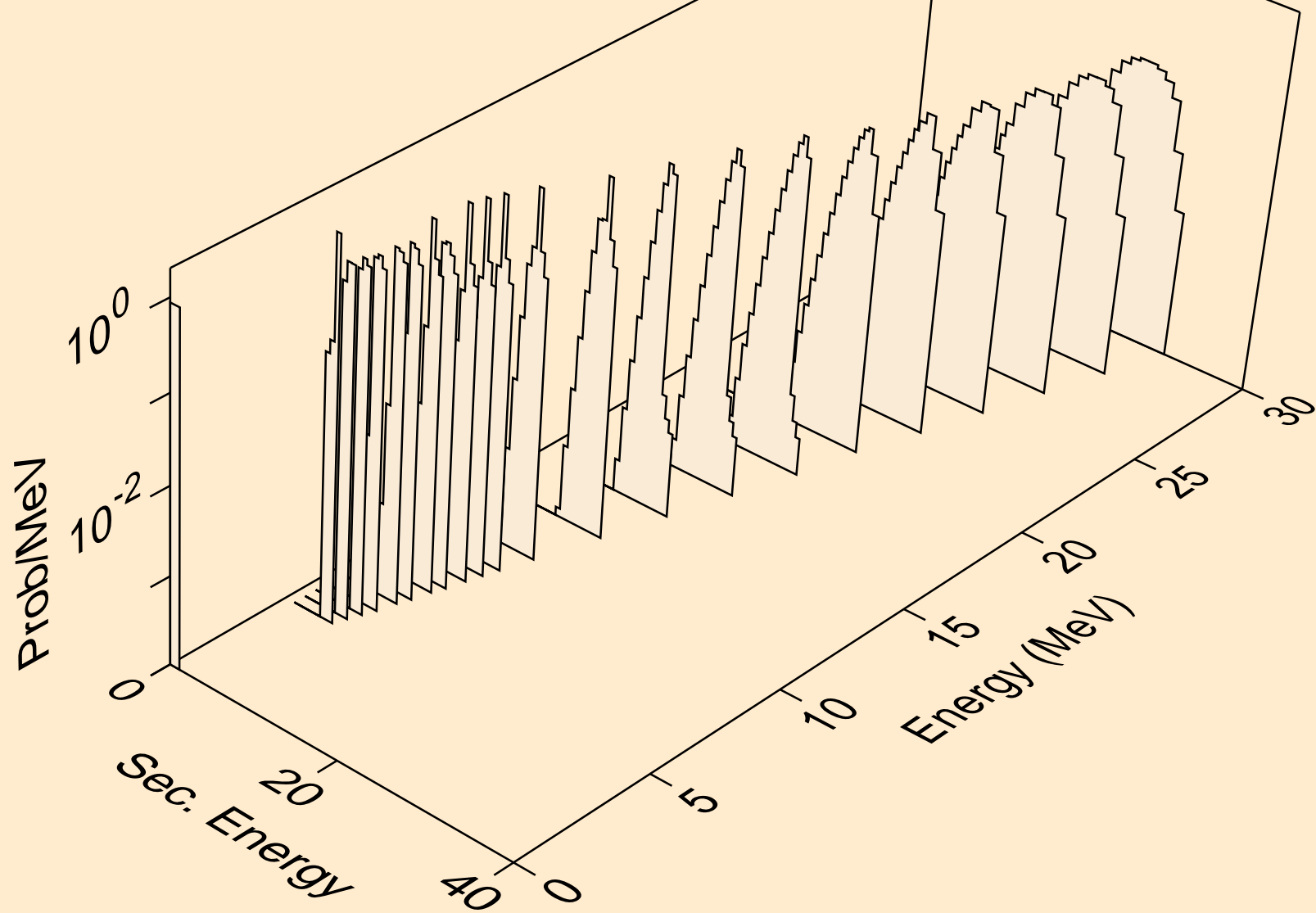
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he3s from (n,x)



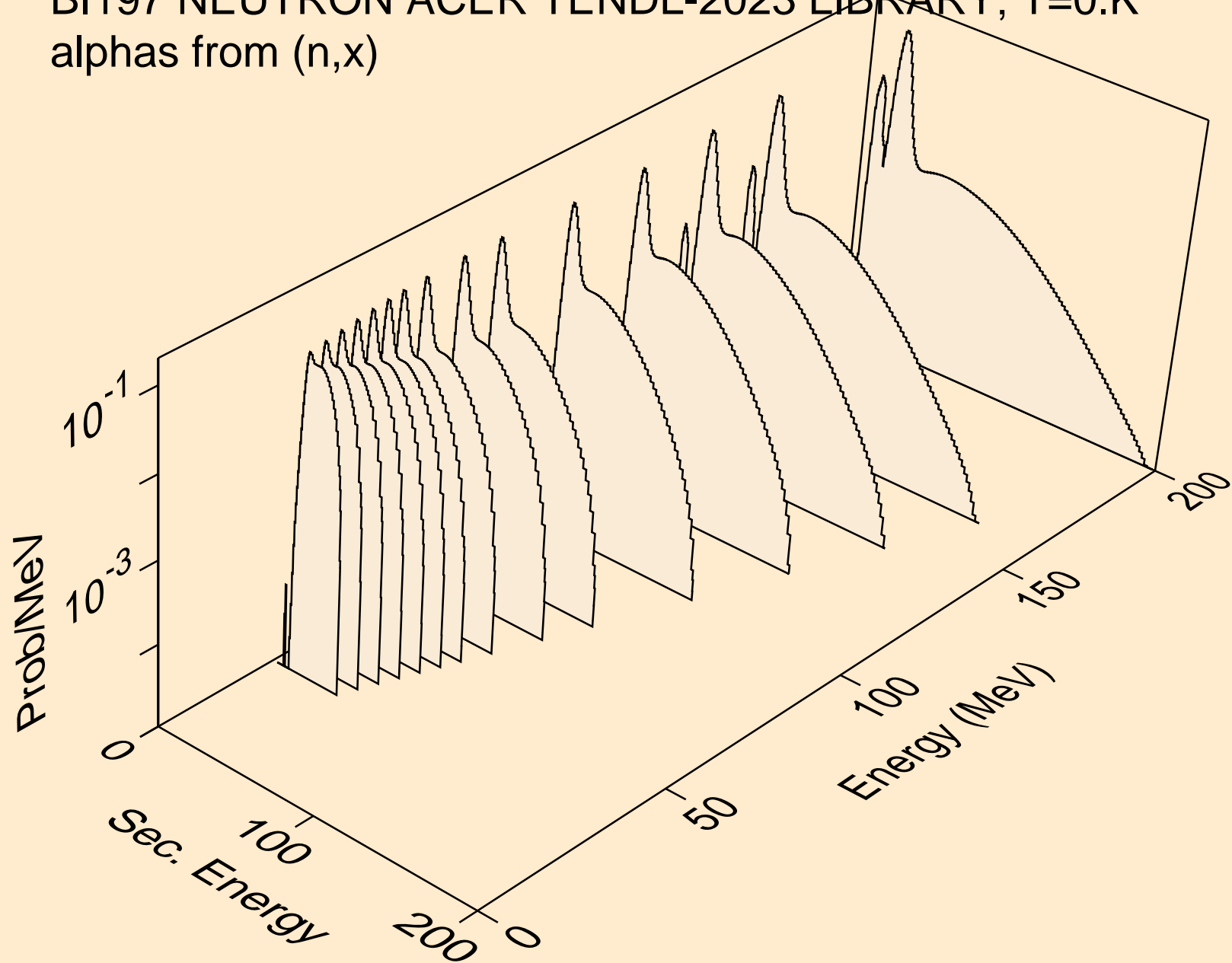
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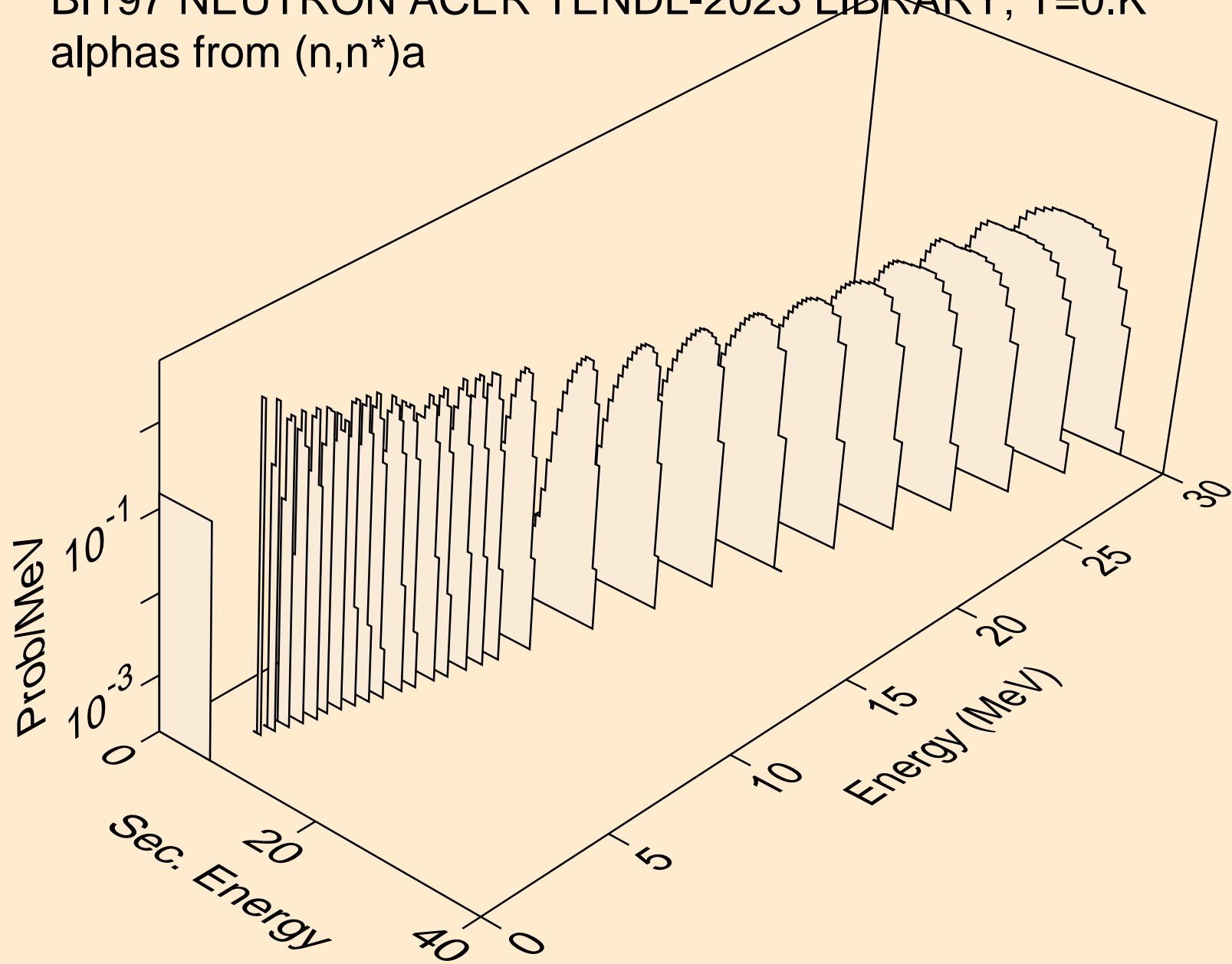
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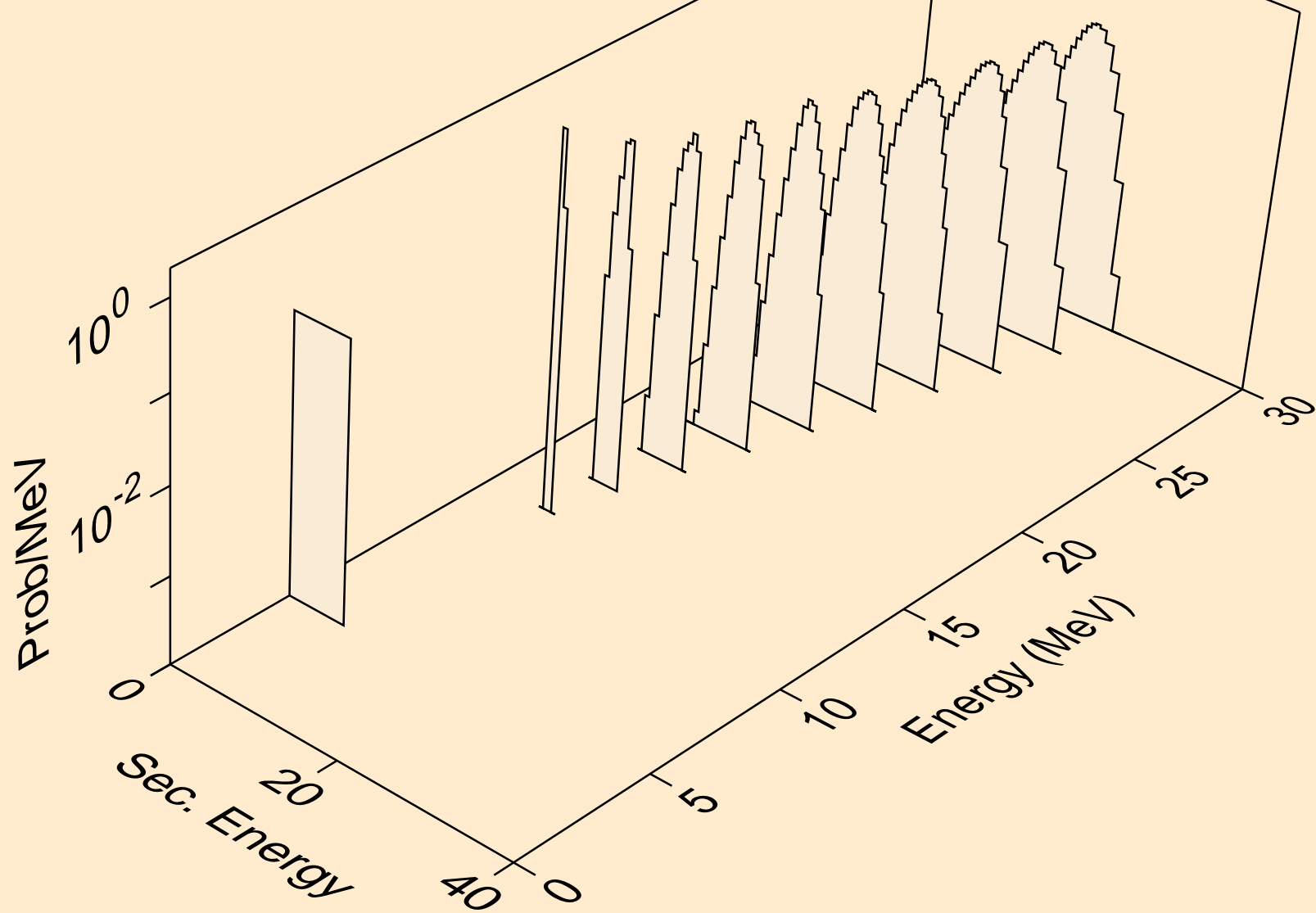
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



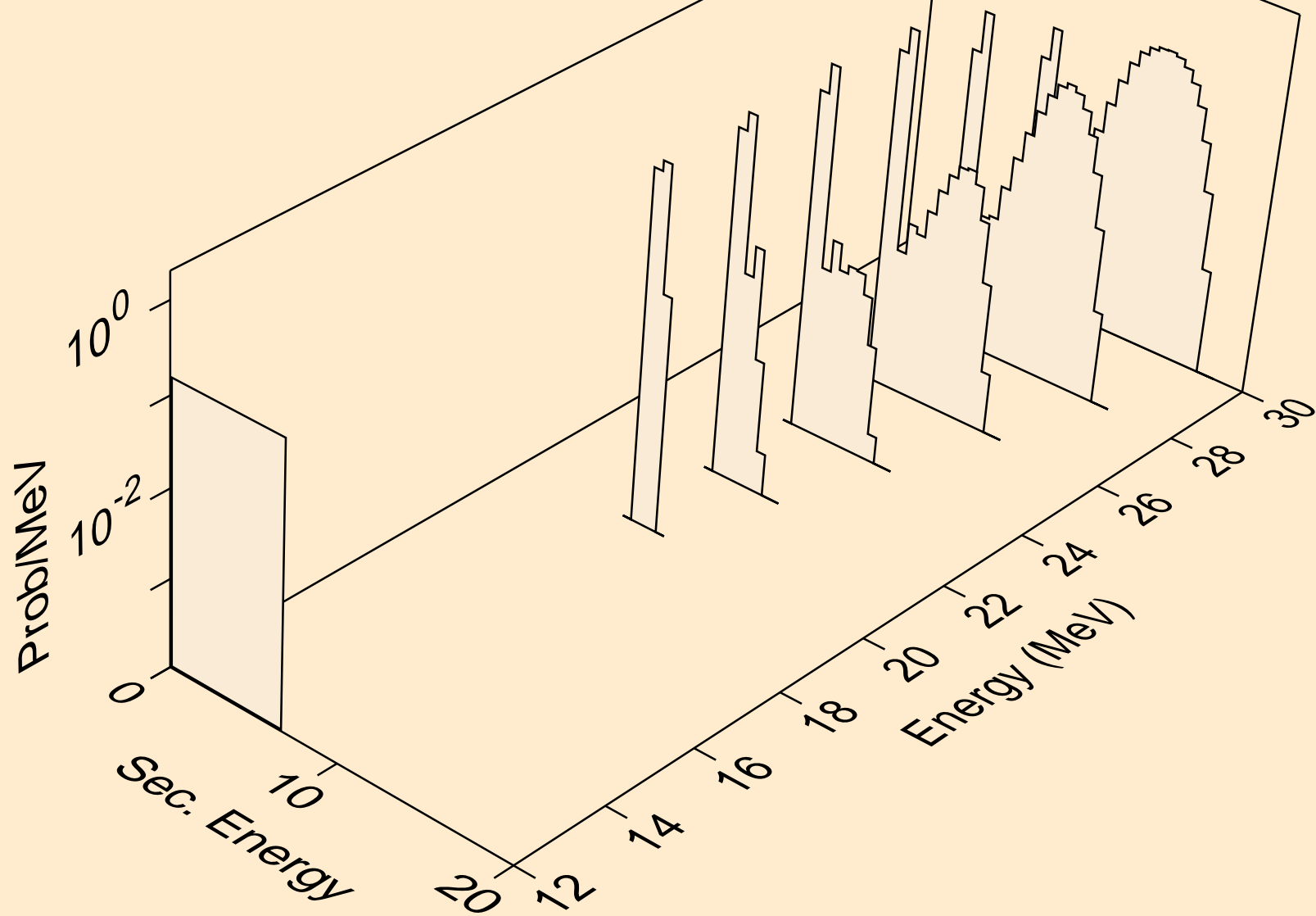
BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a

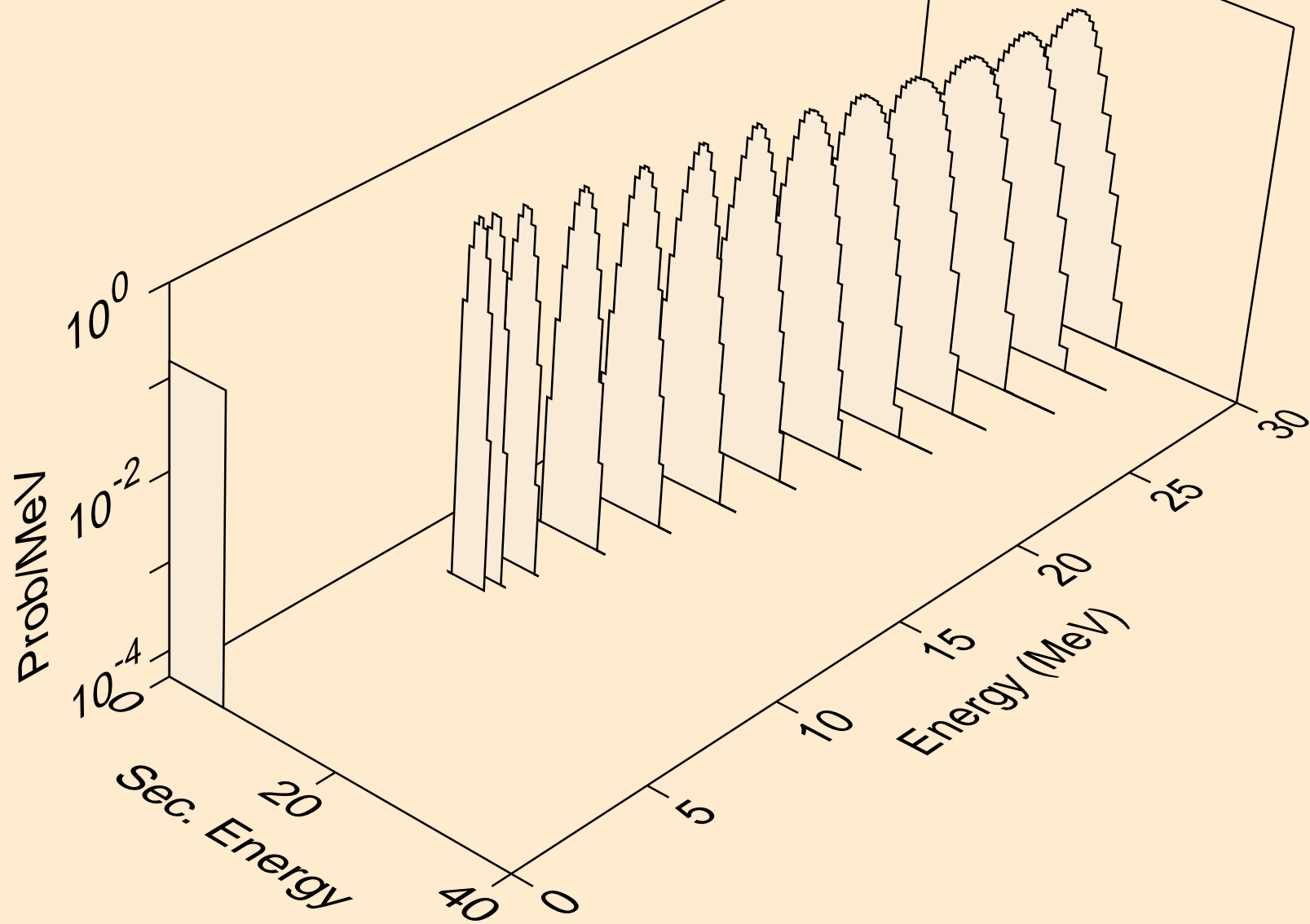


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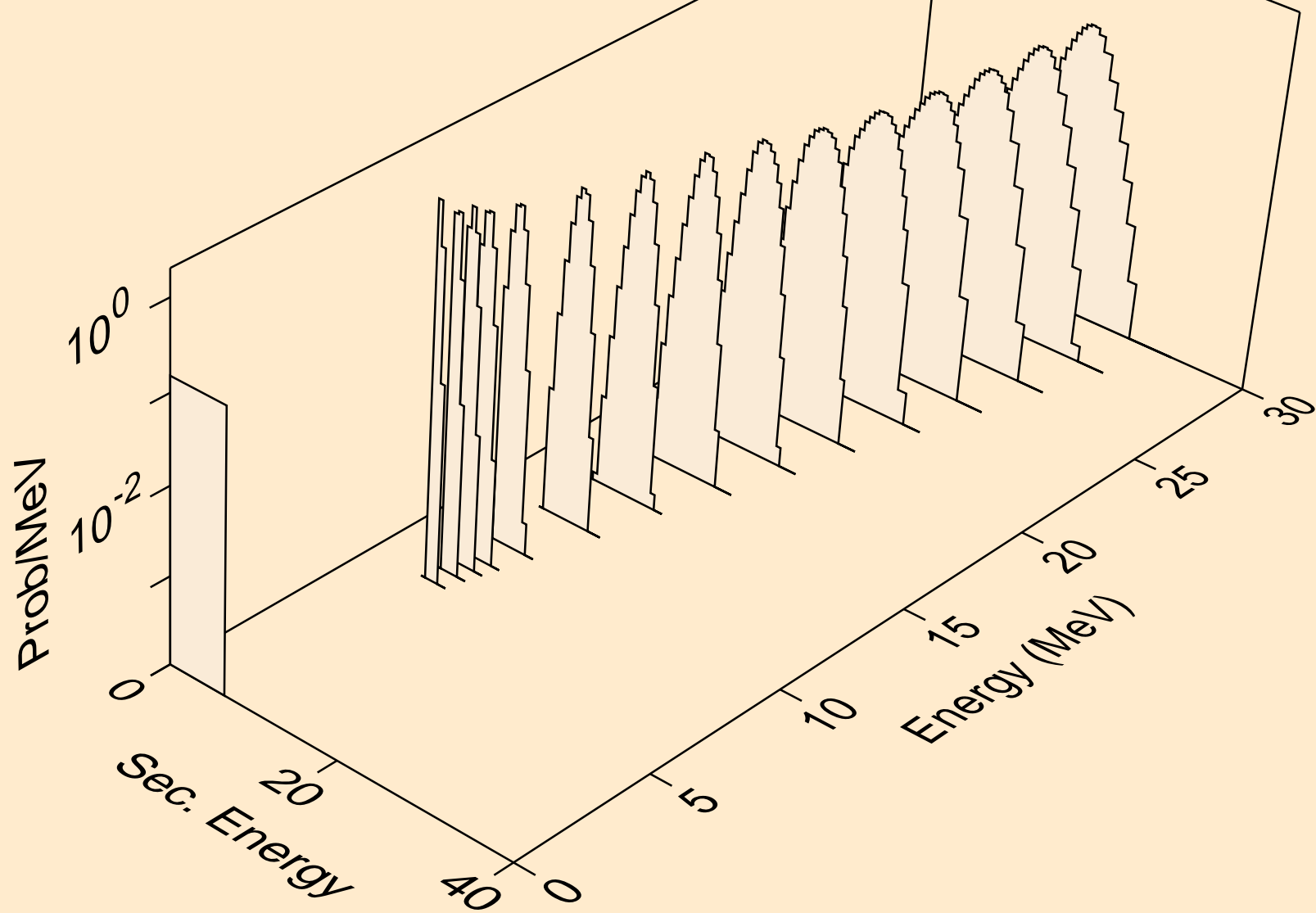




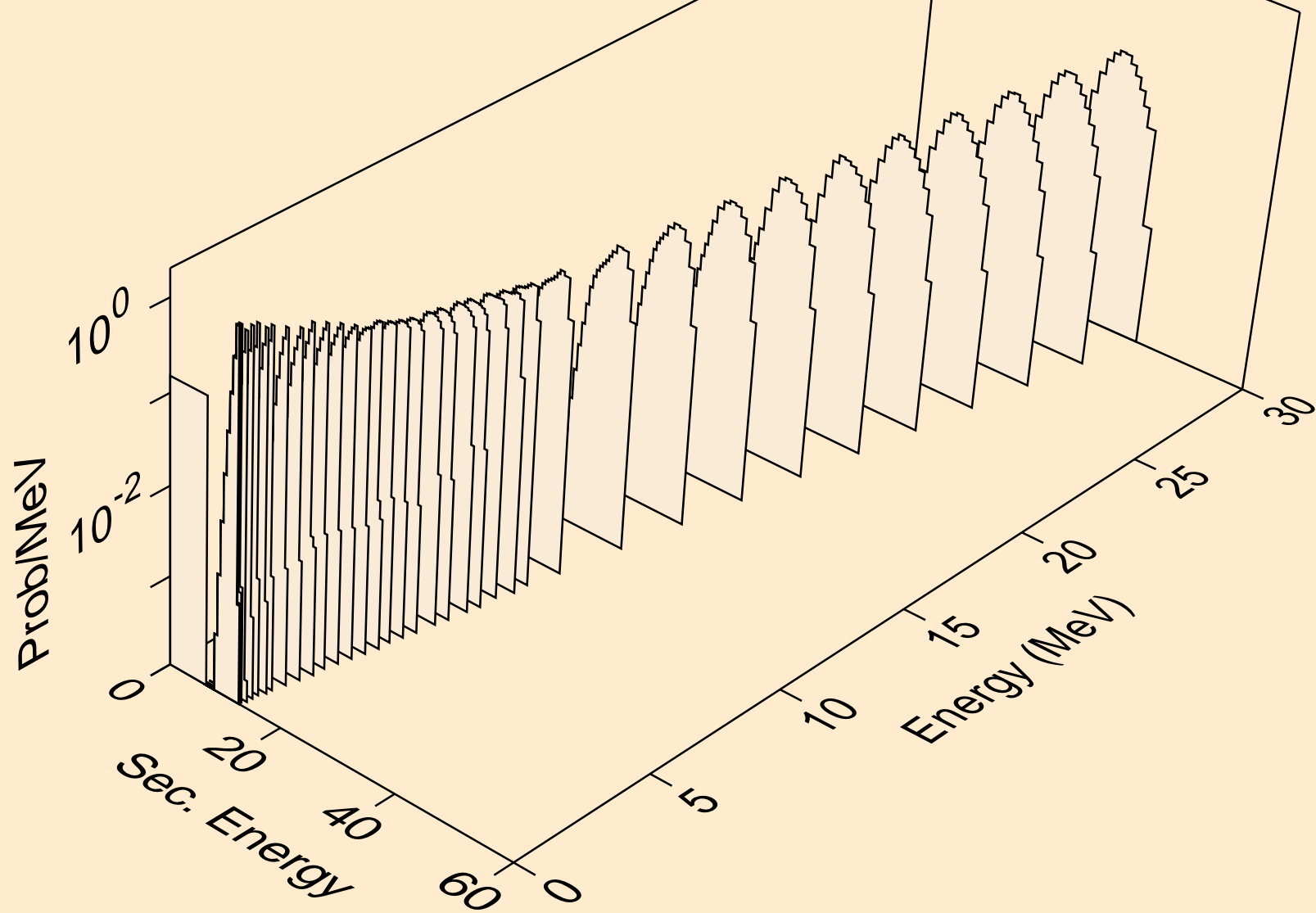
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alphas from (n,n\*)2a



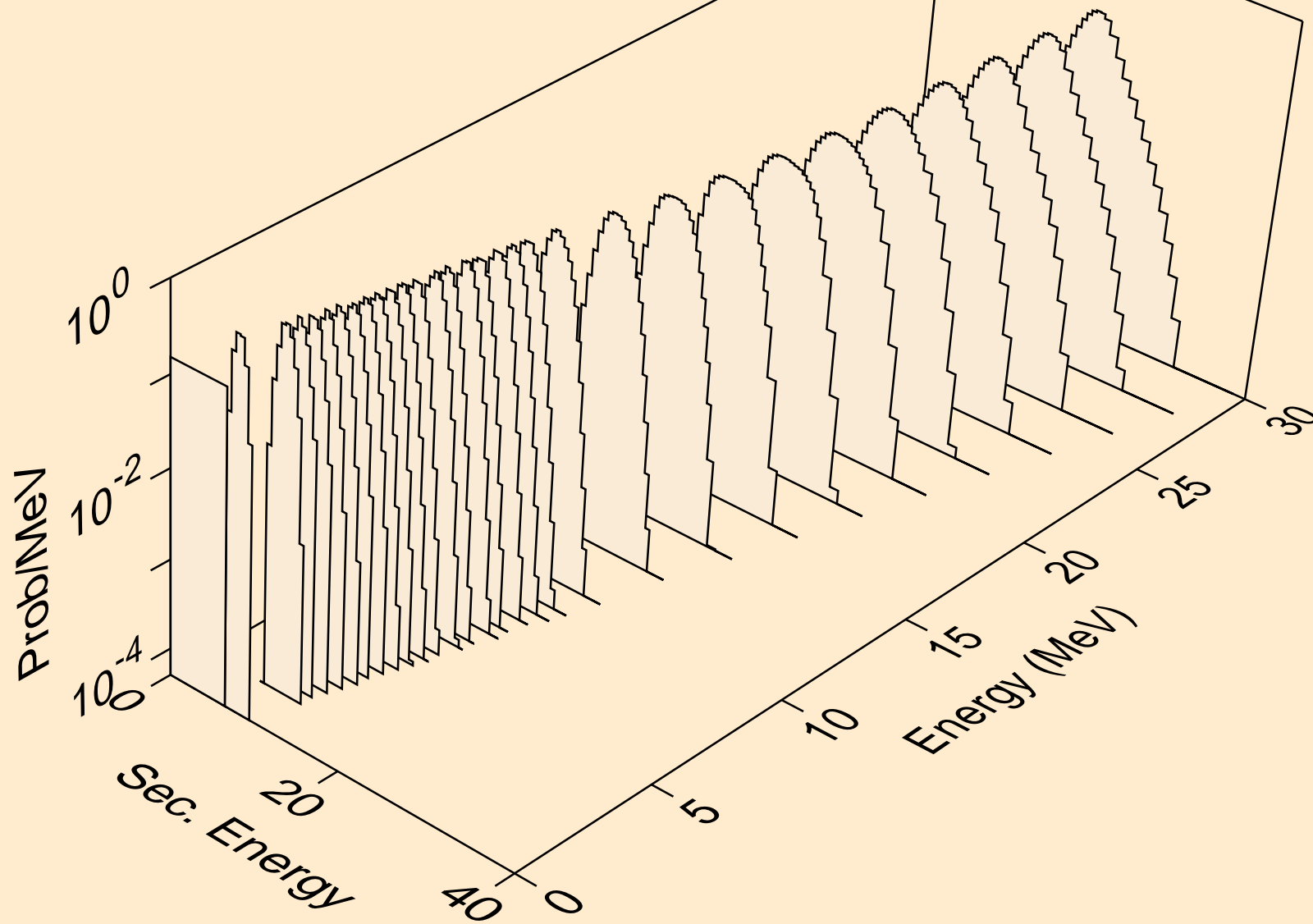
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alphas from (n,npa)



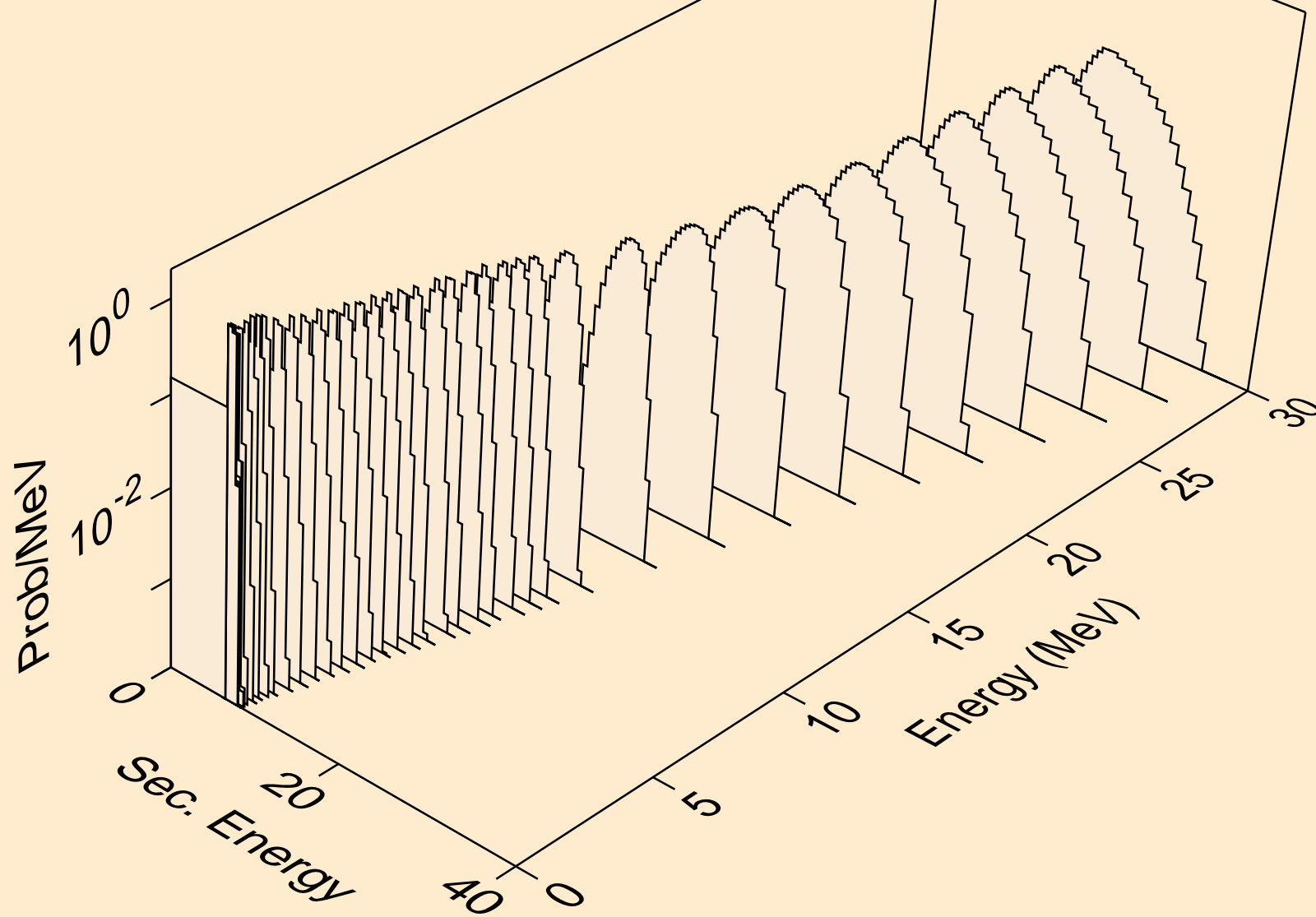
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alphas from (n,a)



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



BI197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

