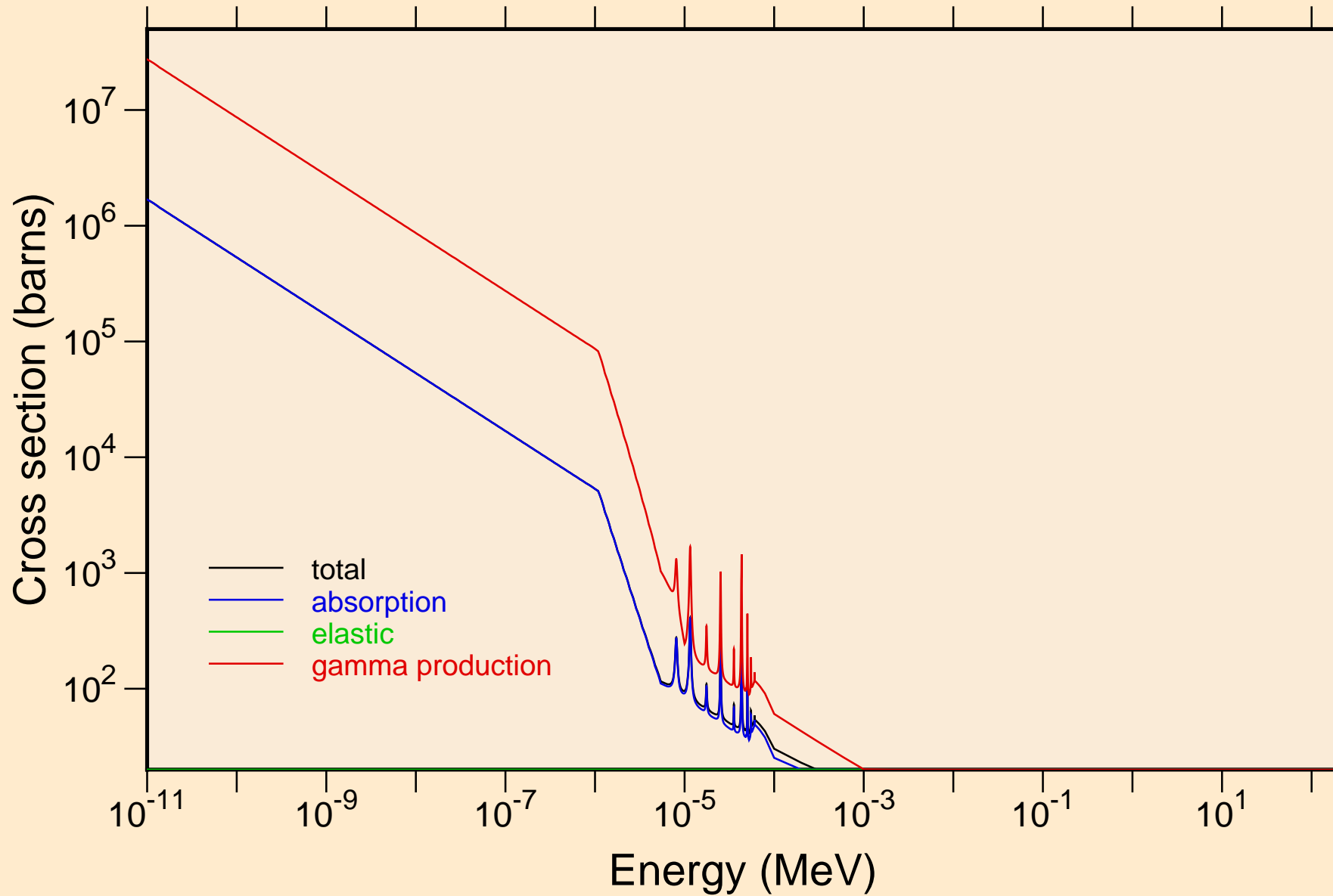
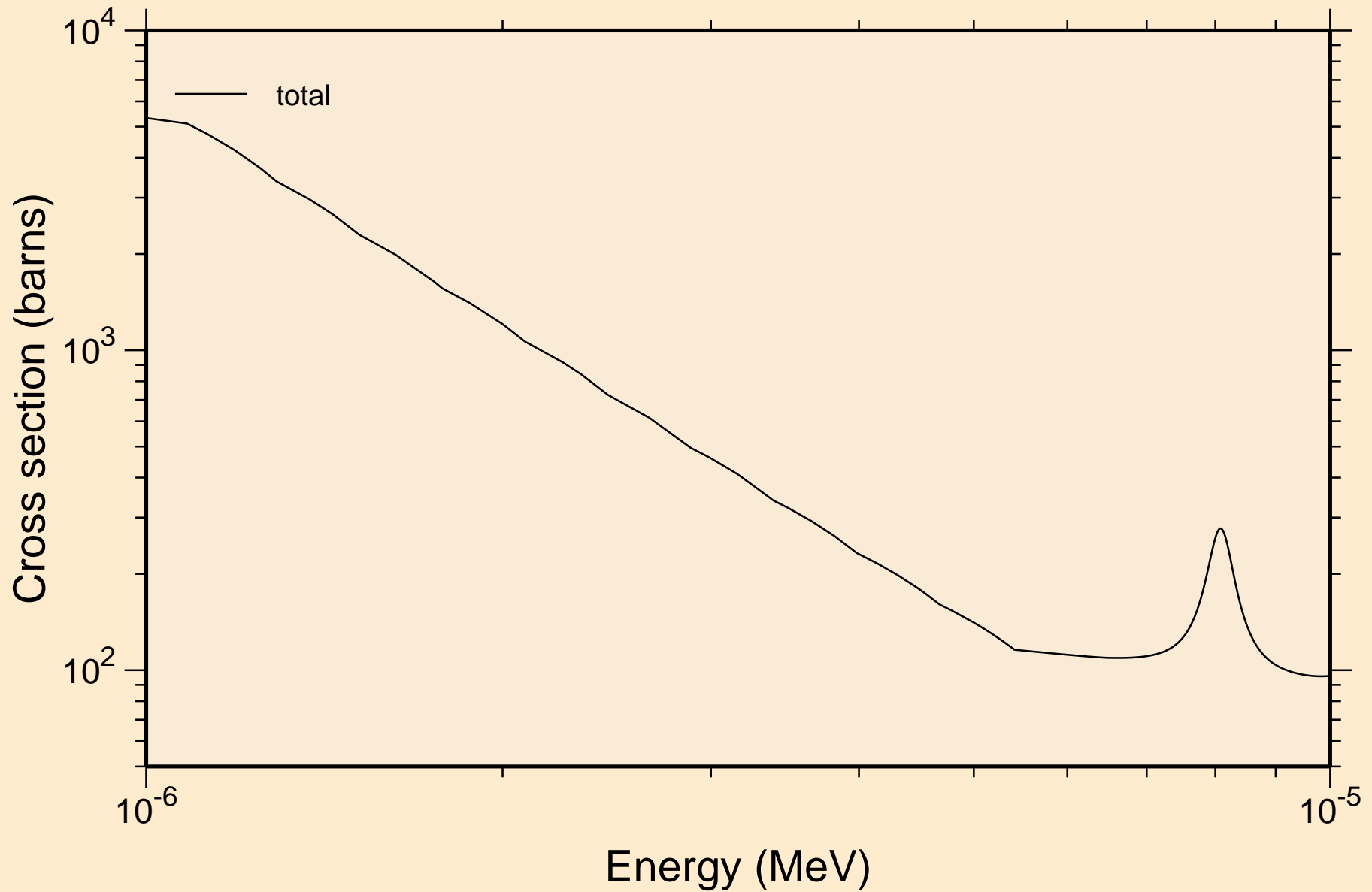


# RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

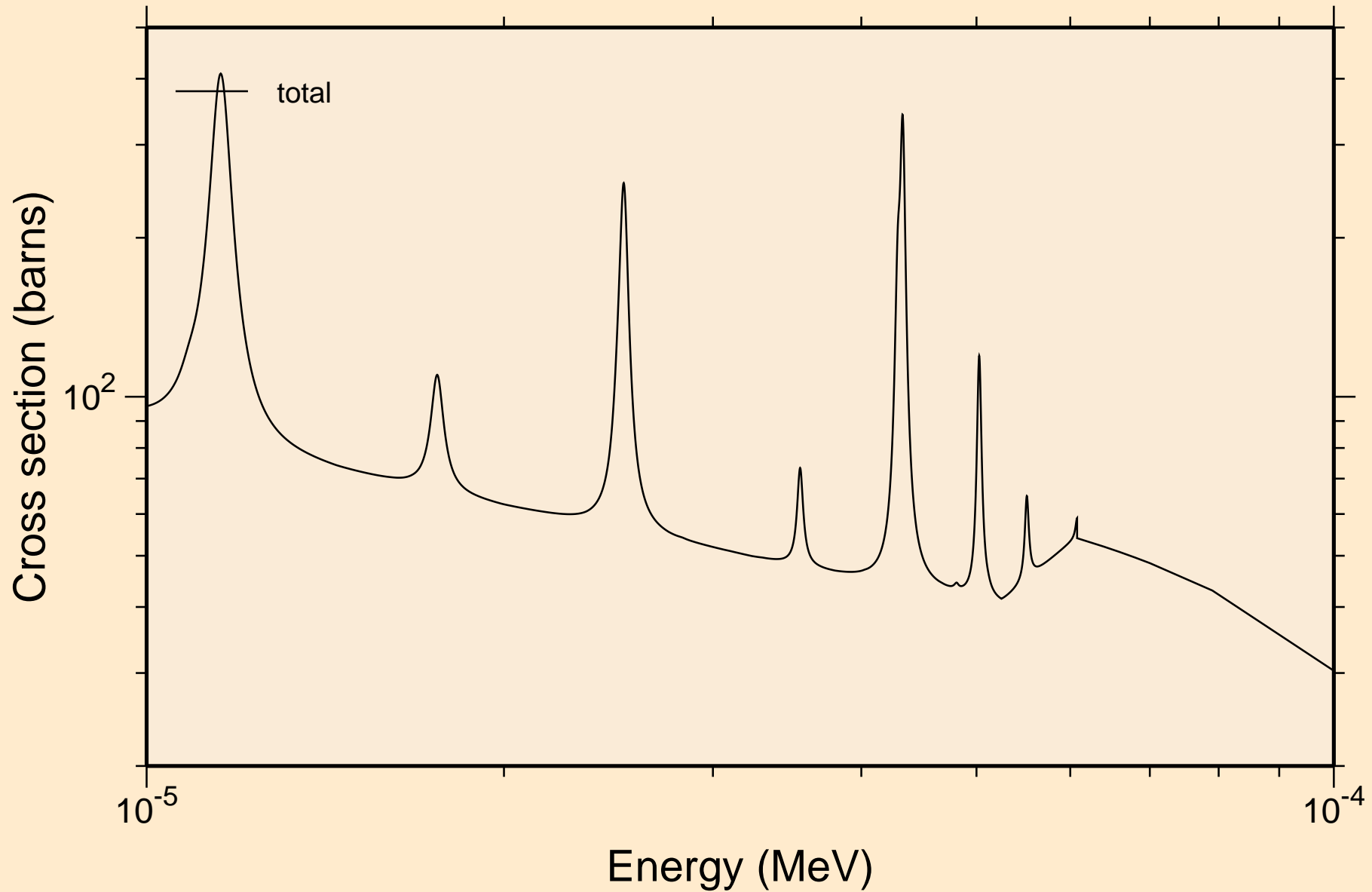
## Principal cross sections



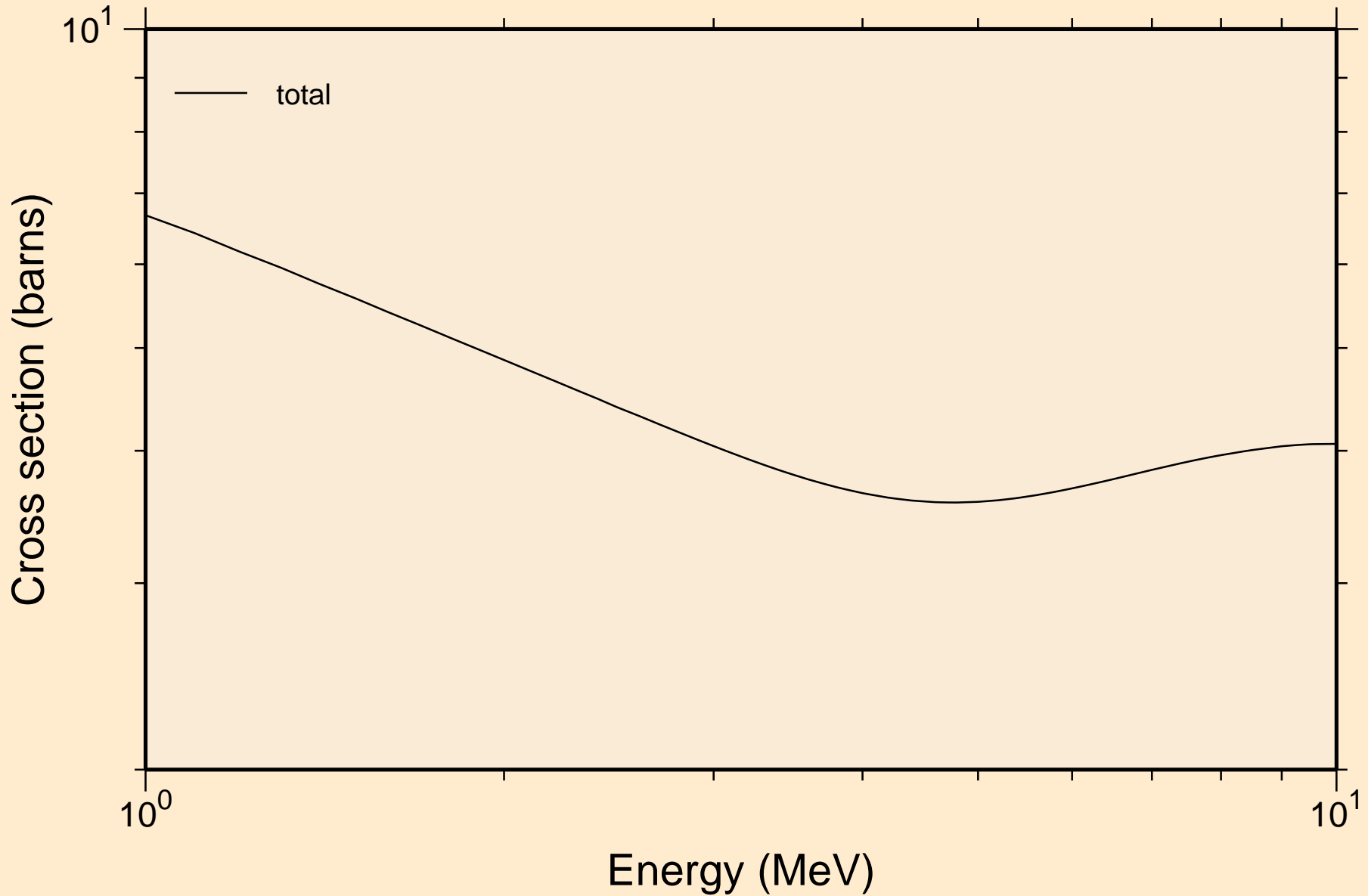
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resonance total cross section



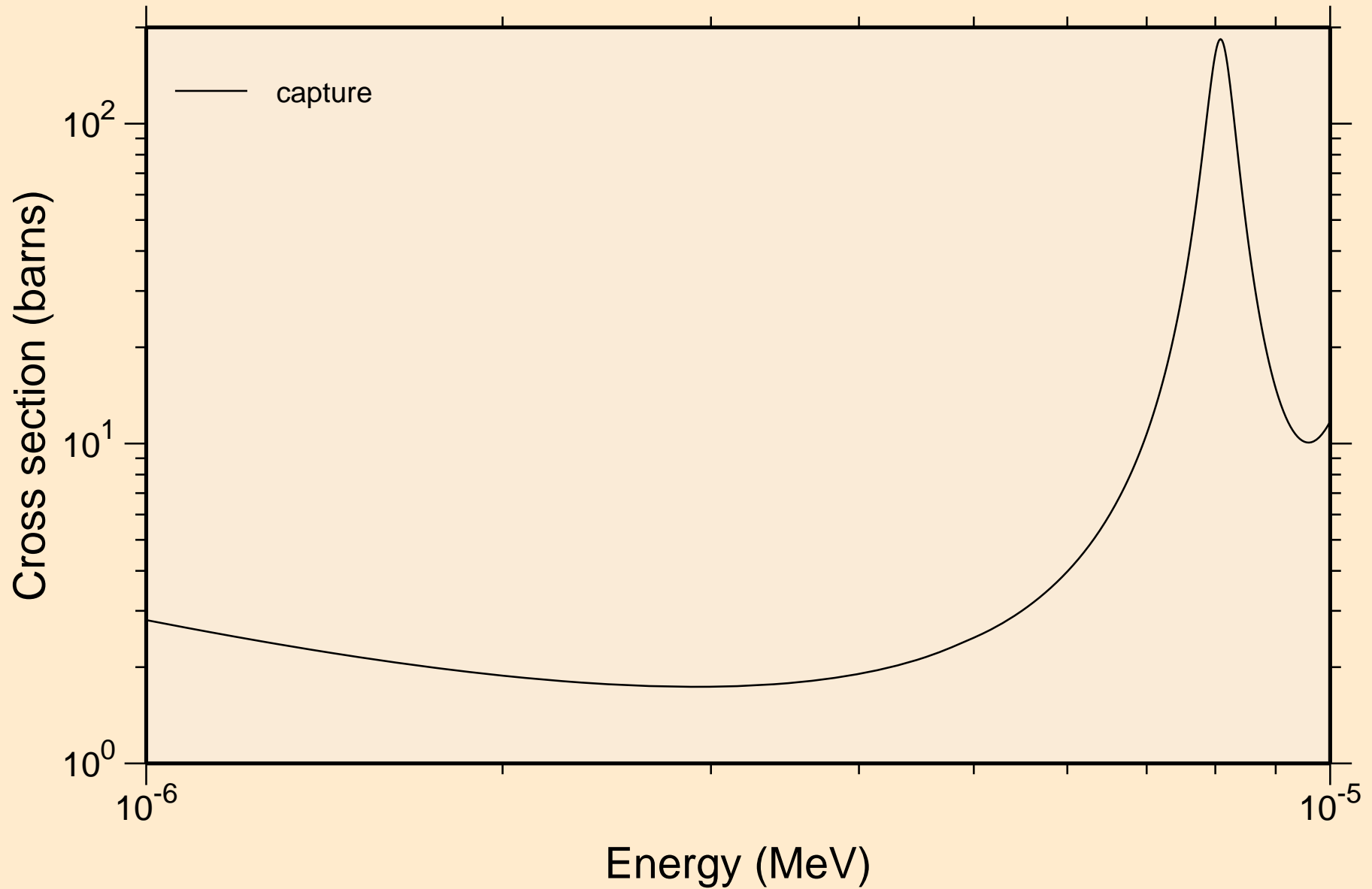
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resonance total cross section



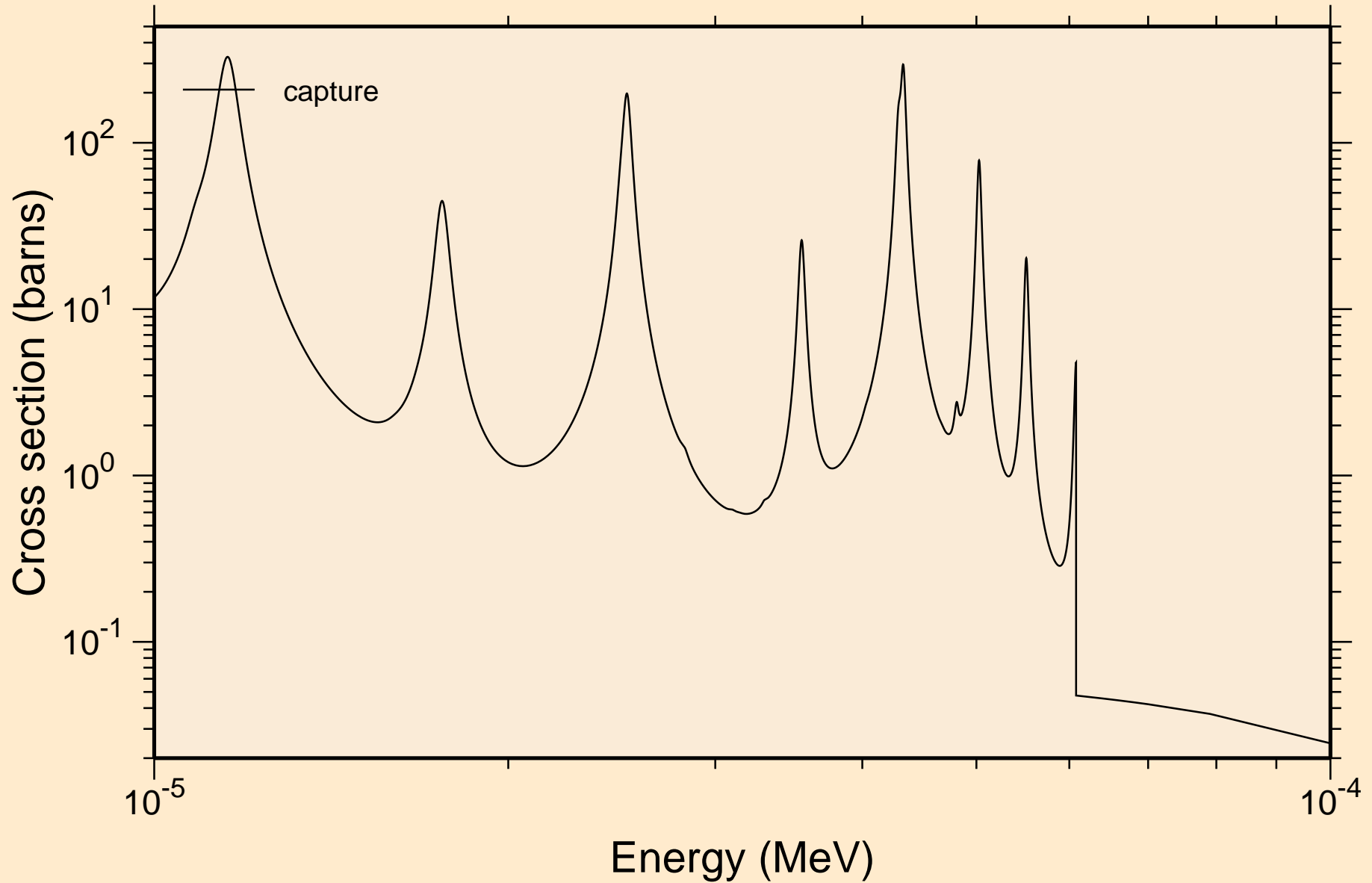
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resonance total cross section



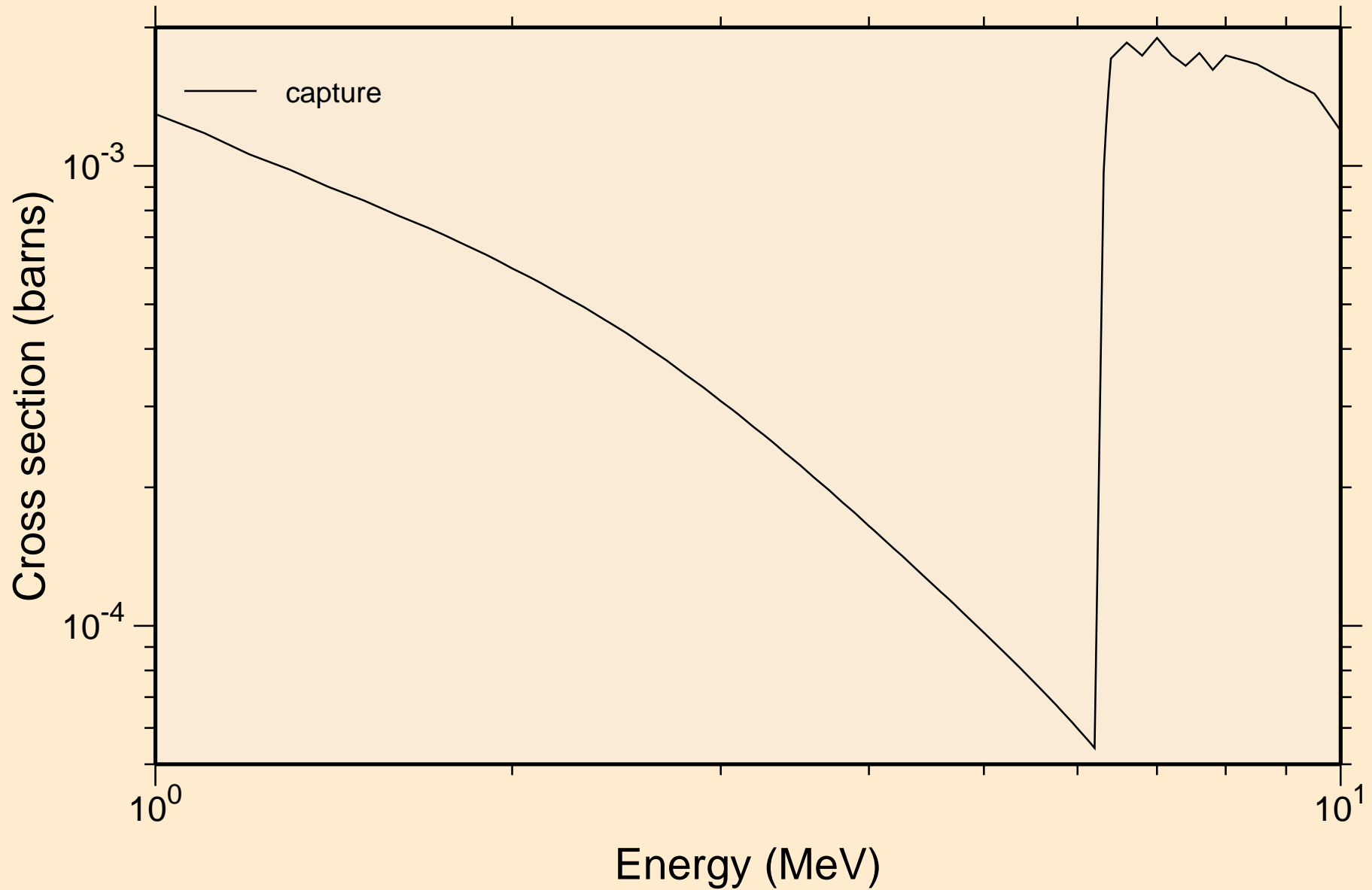
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

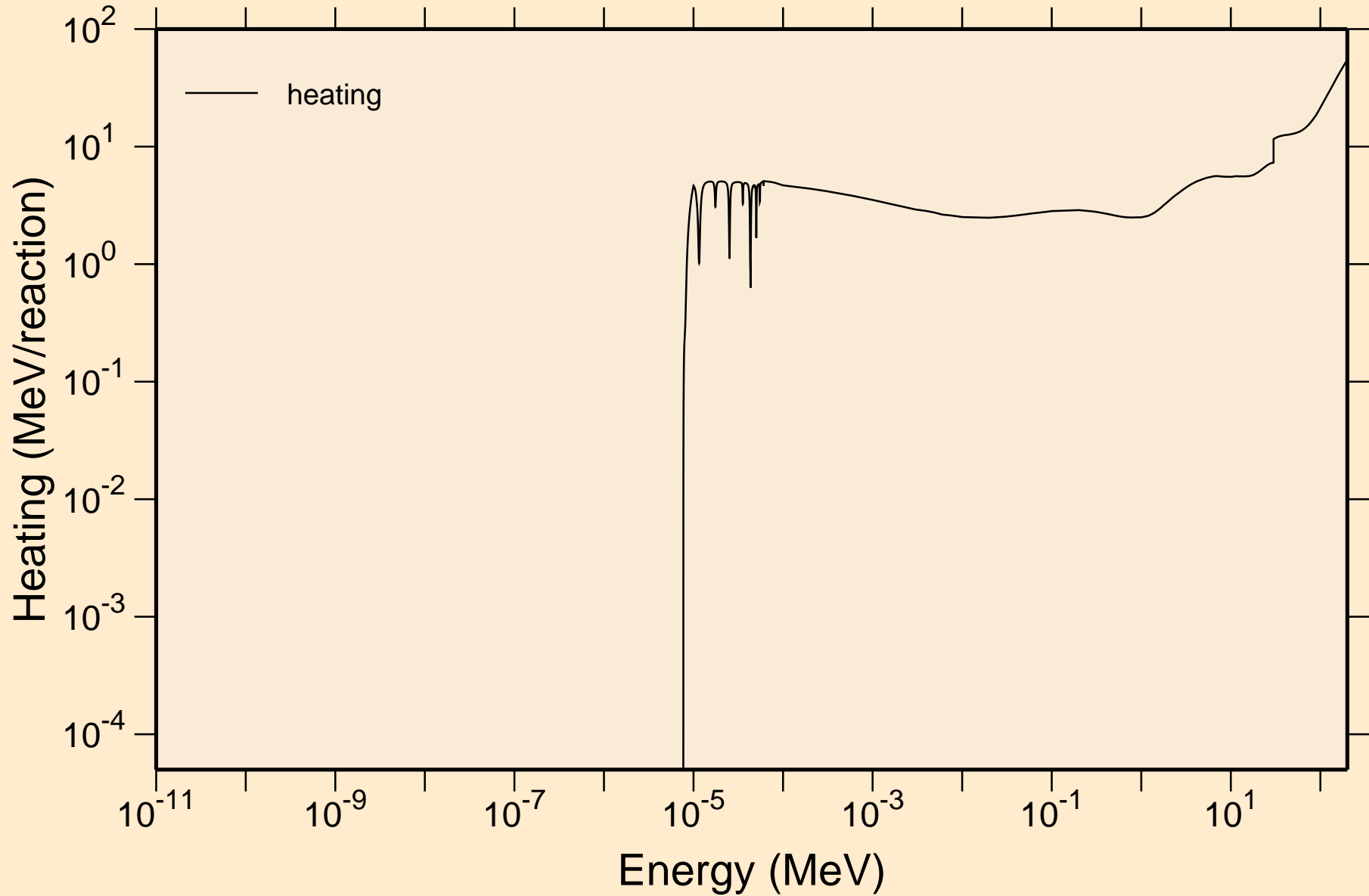


RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



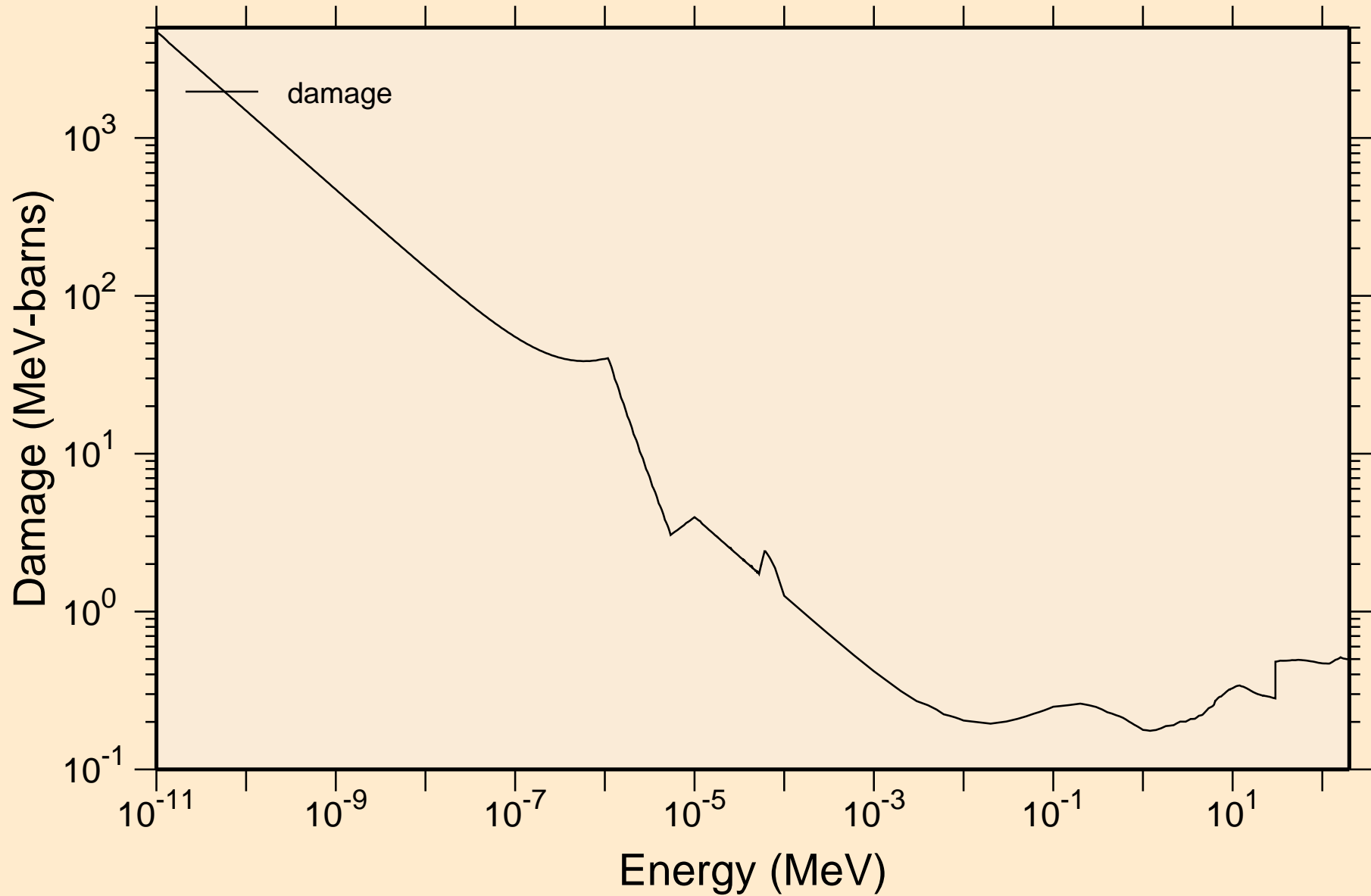
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## Heating

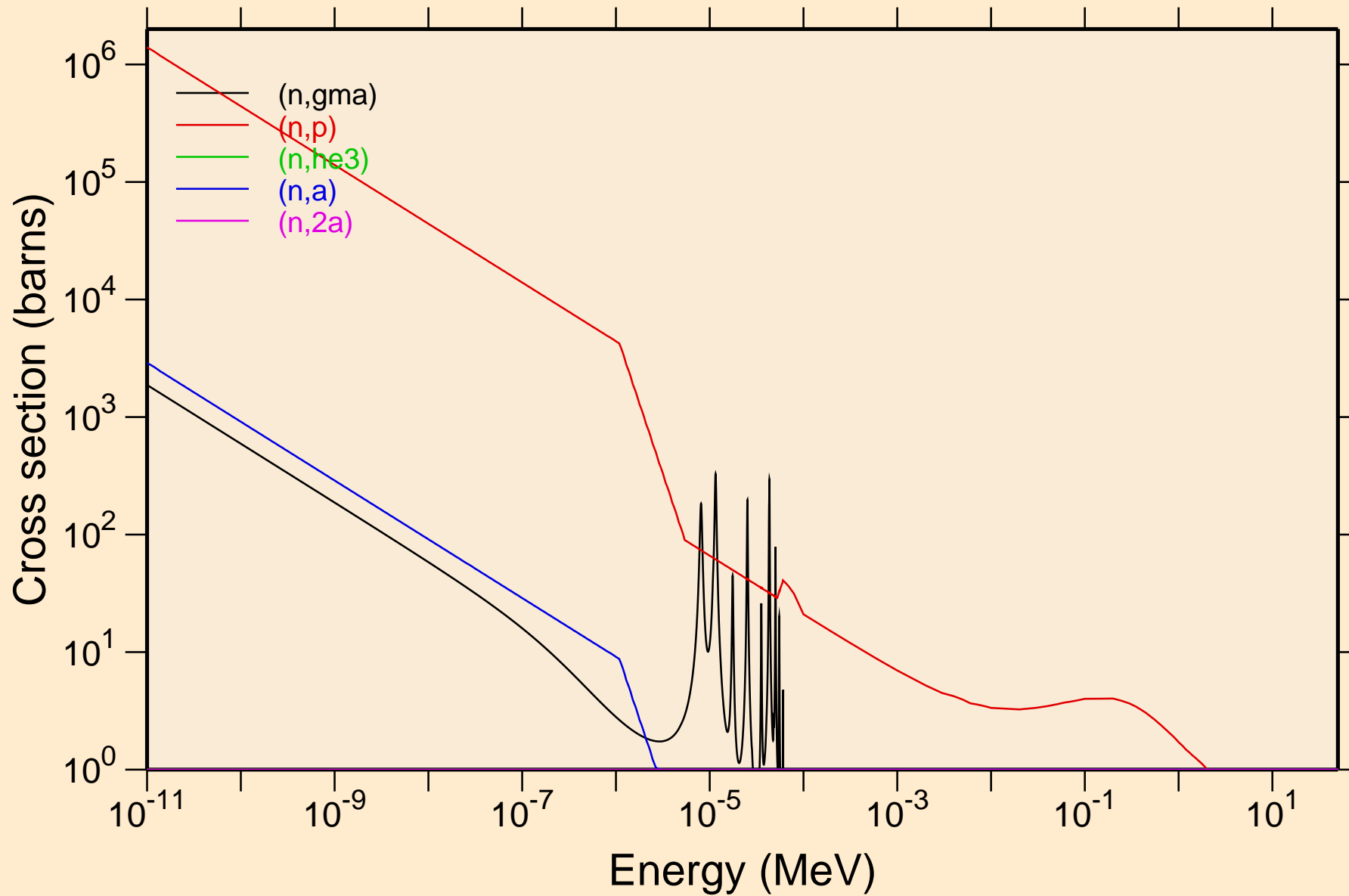




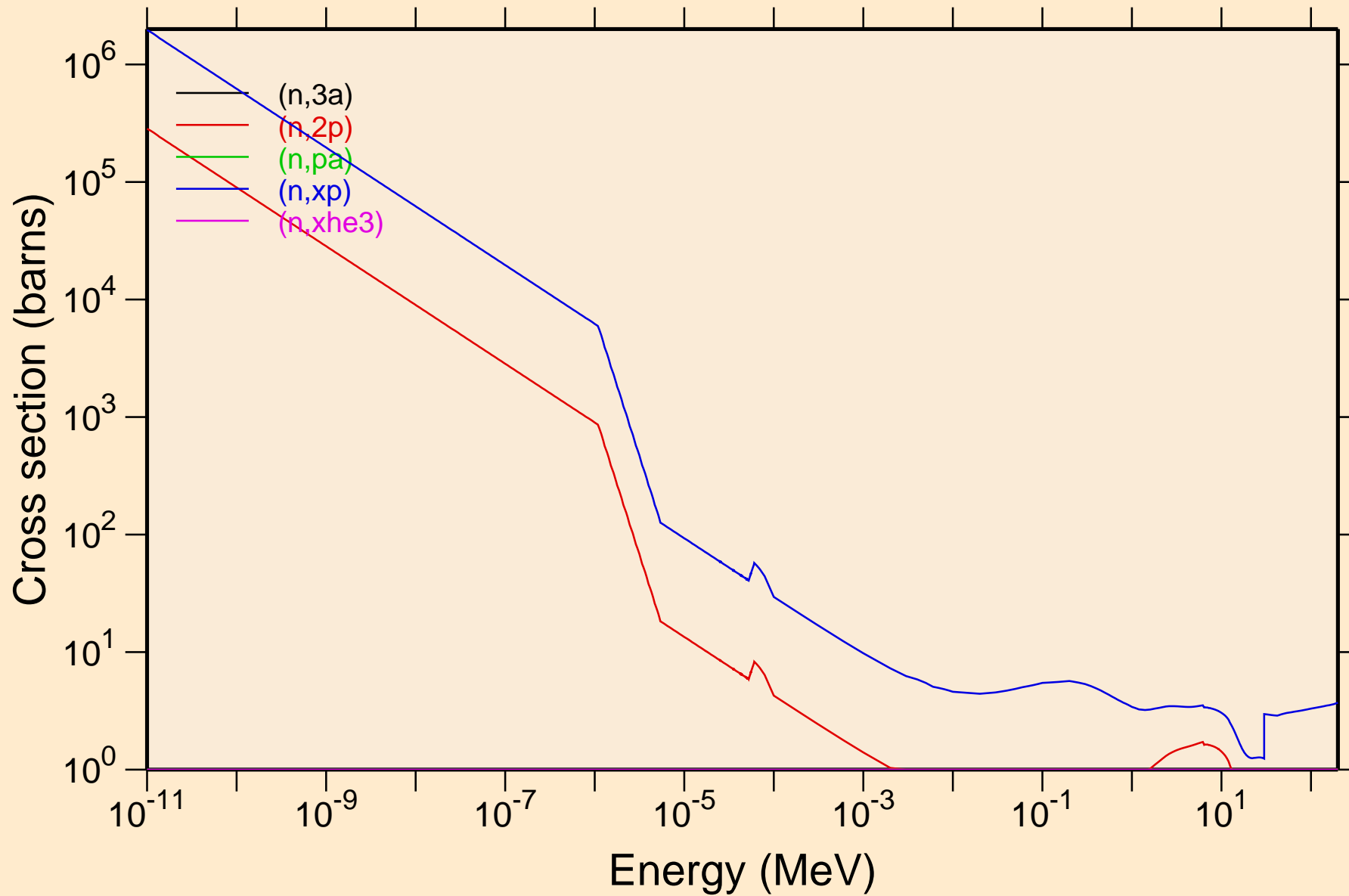
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Damage



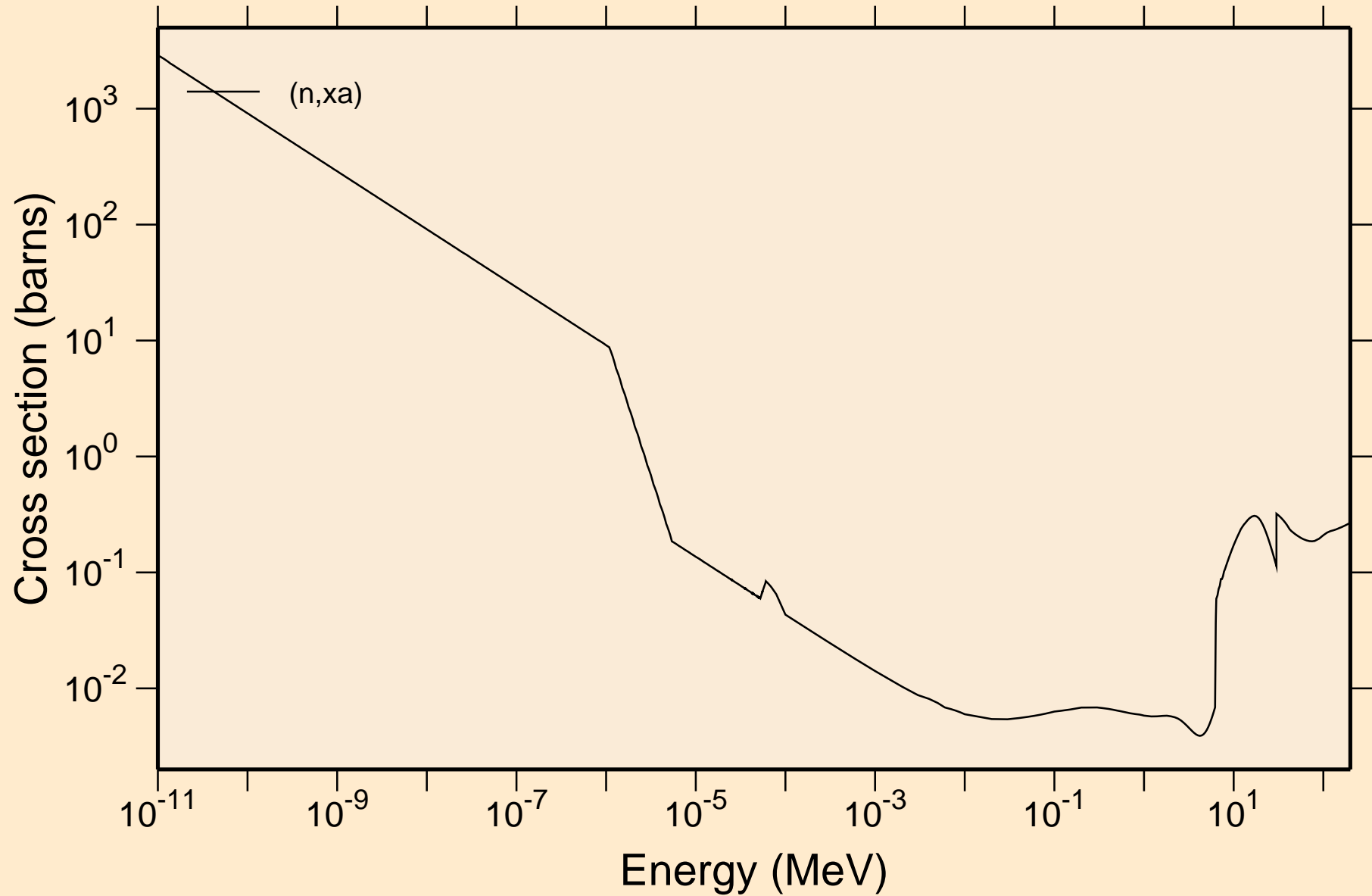
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions

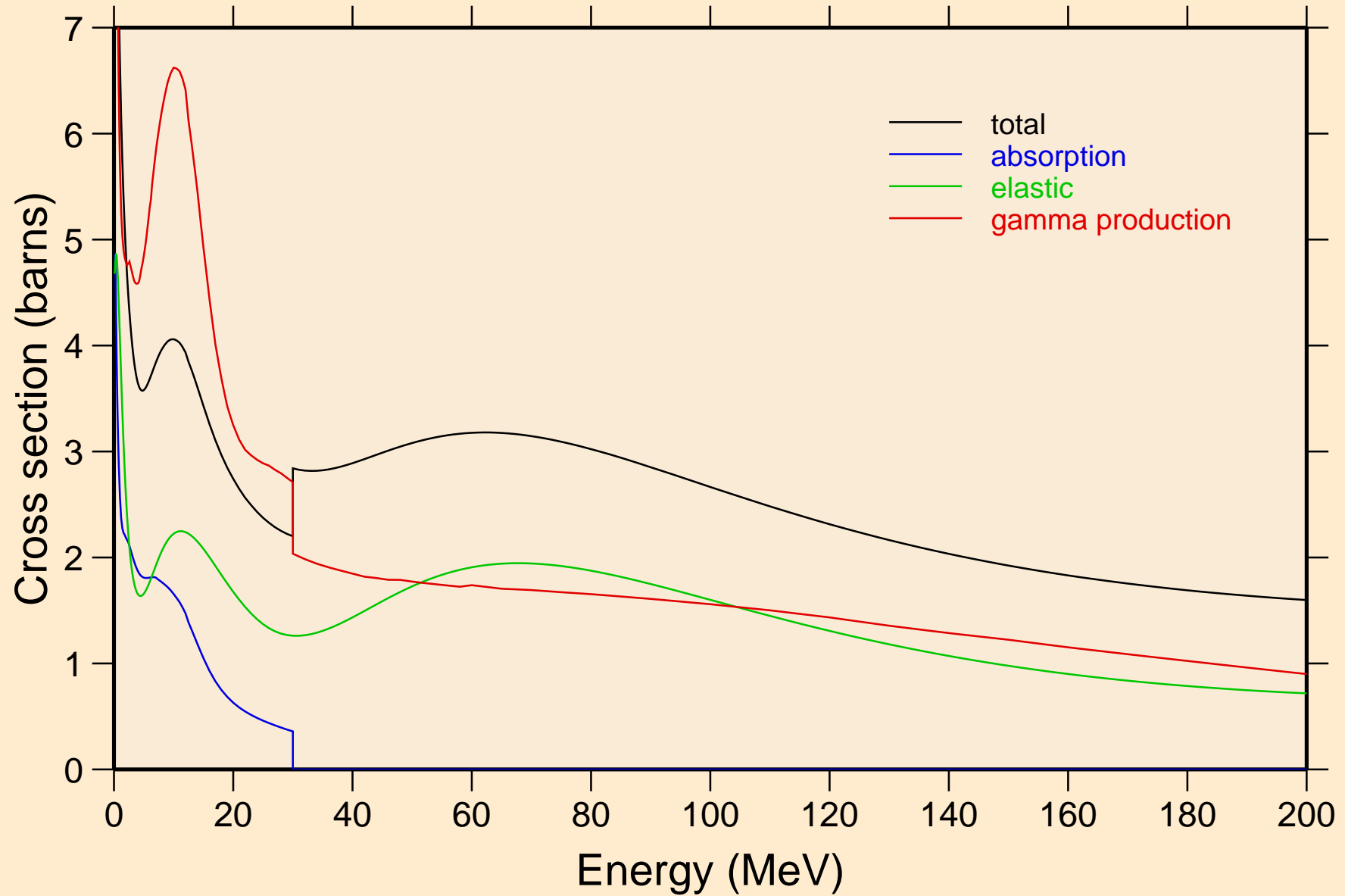


RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



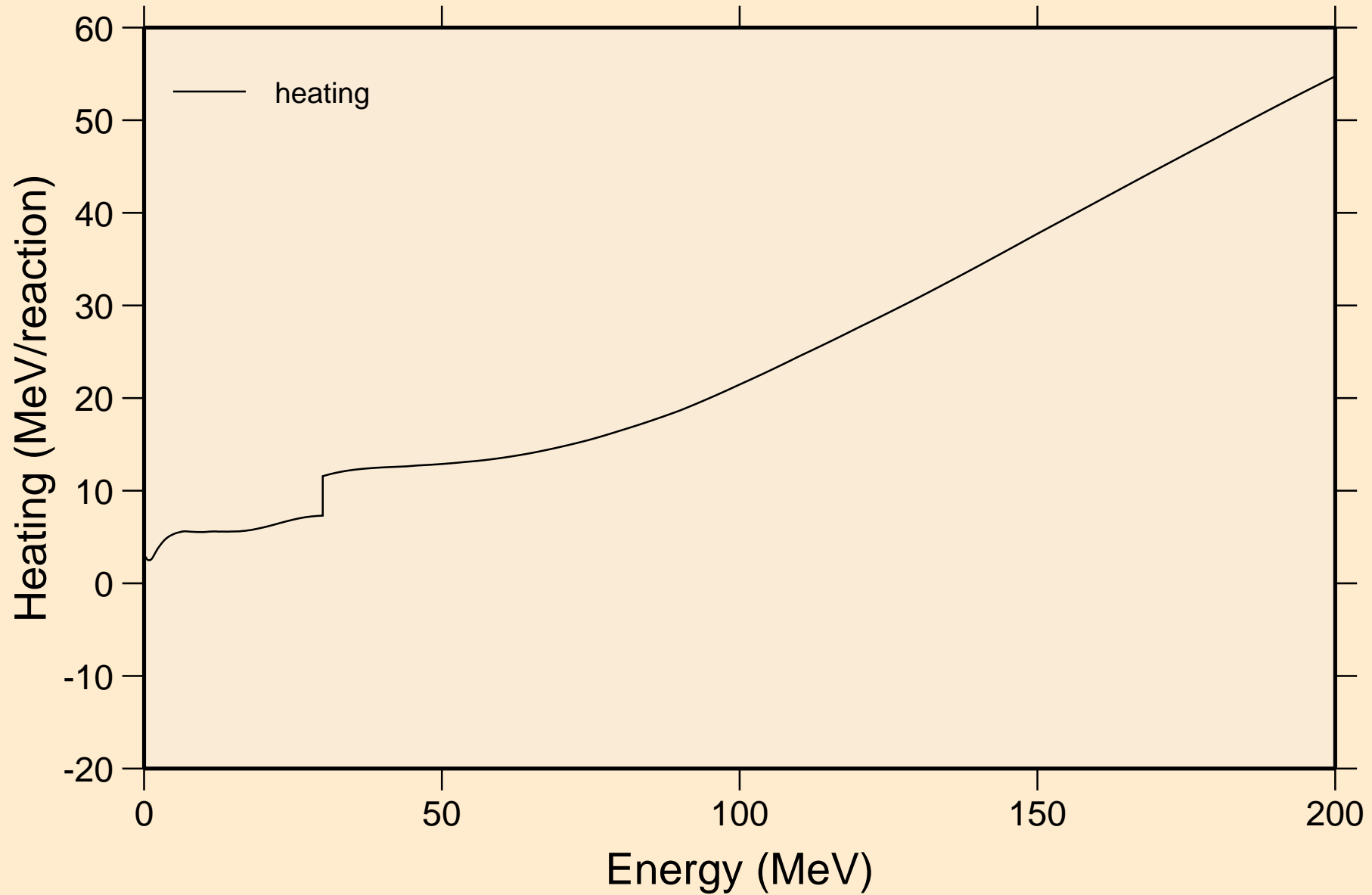
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## Principal cross sections

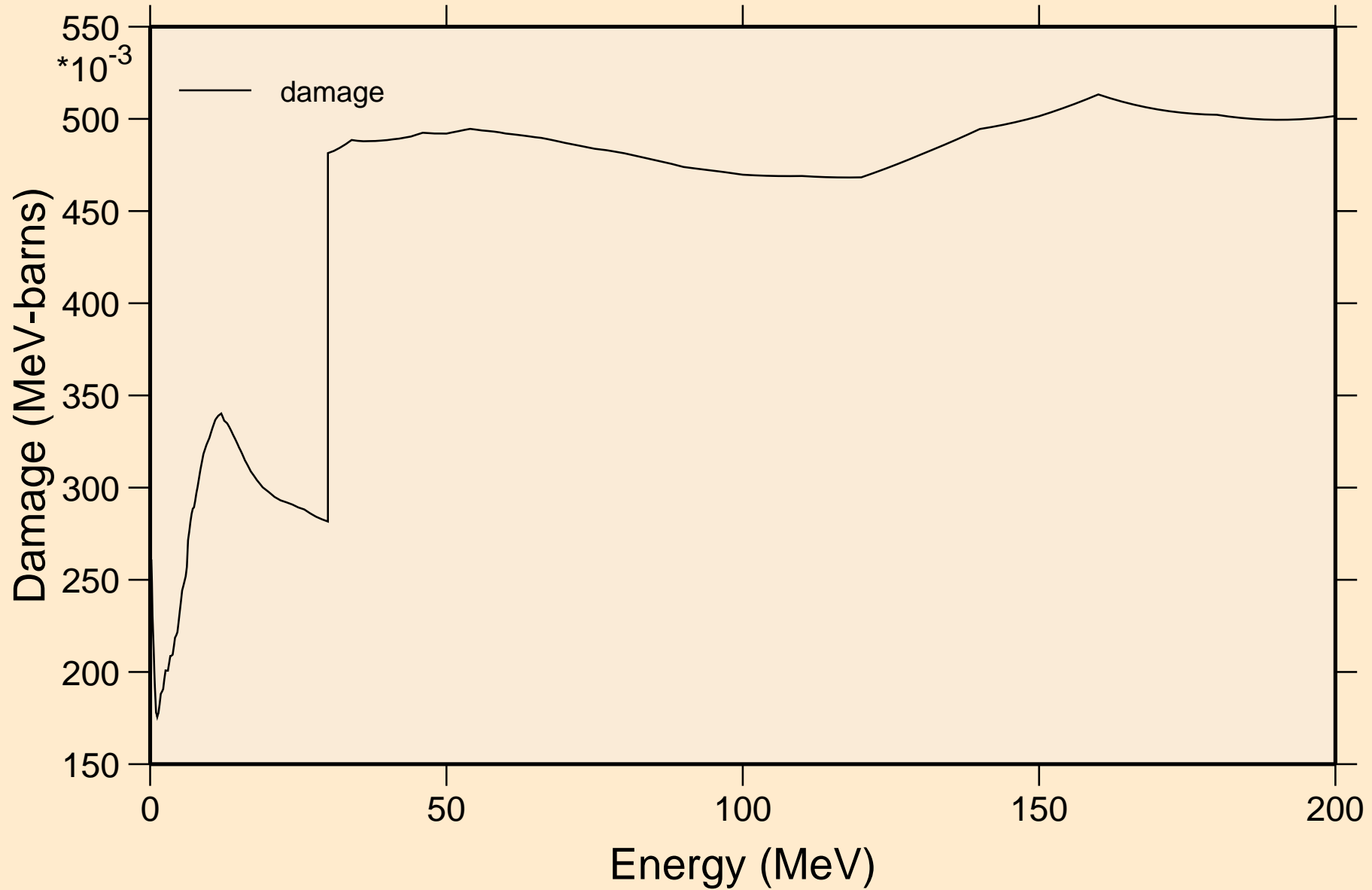


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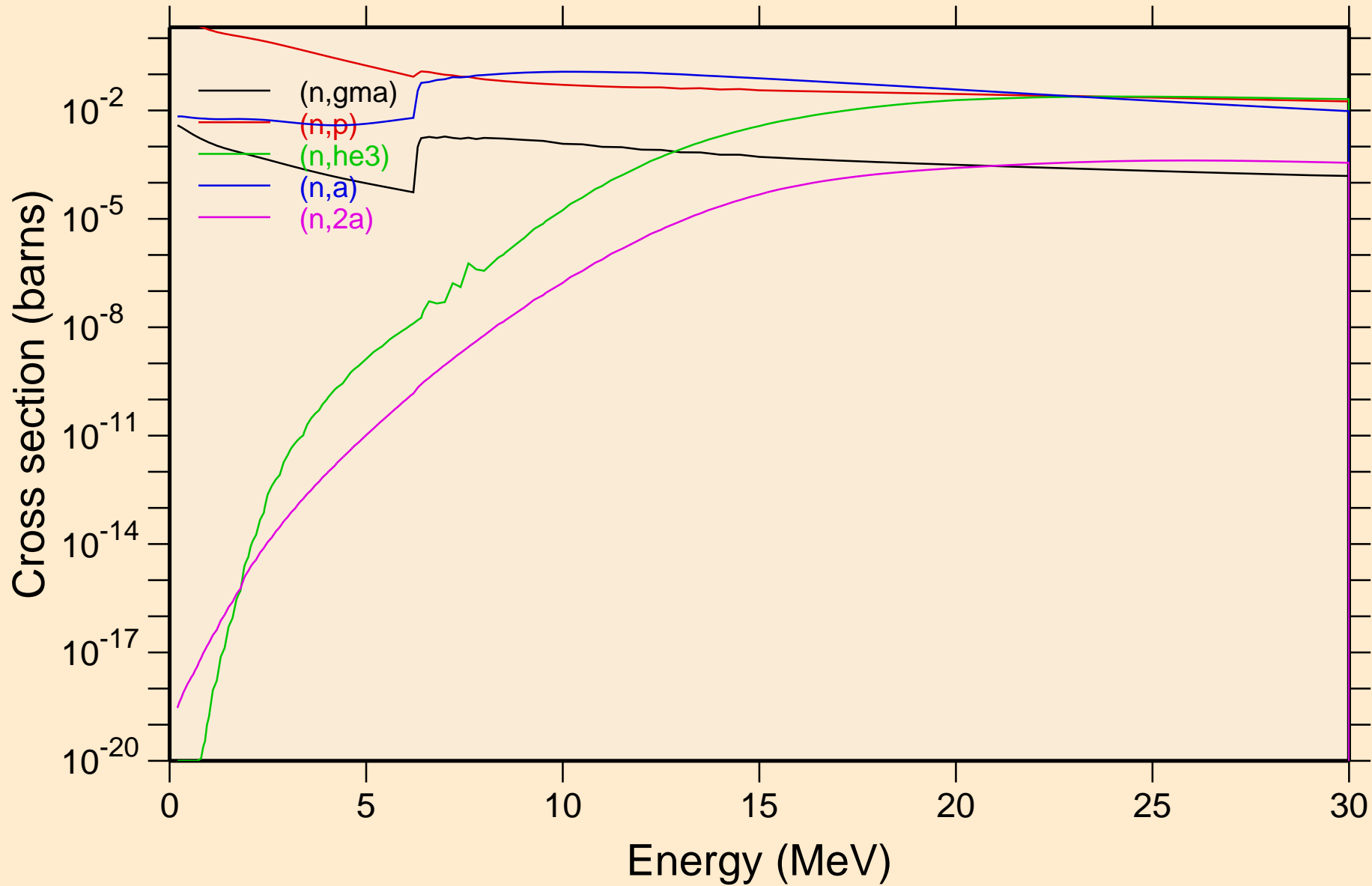
## Heating



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Damage

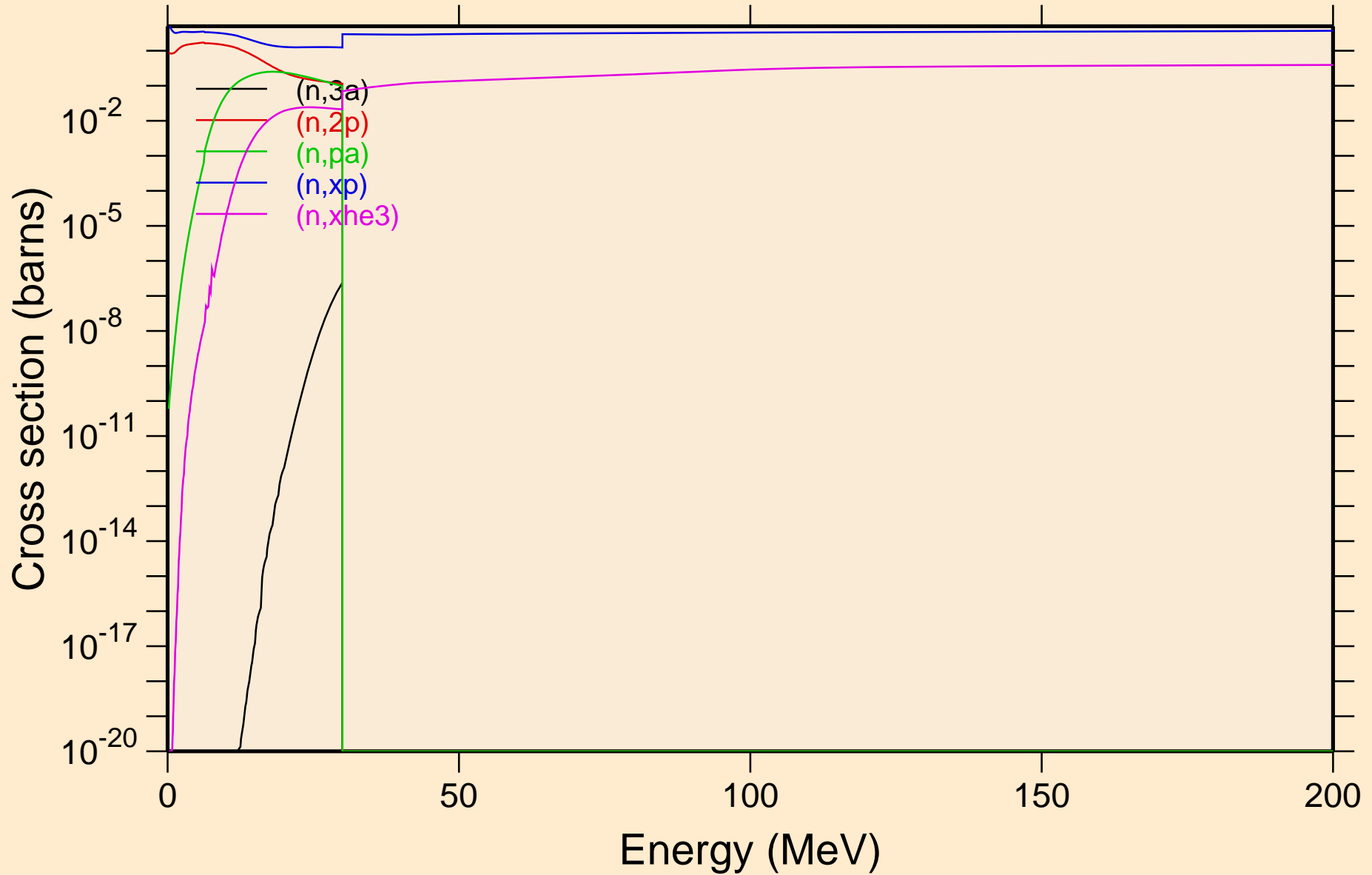


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Non-threshold reactions

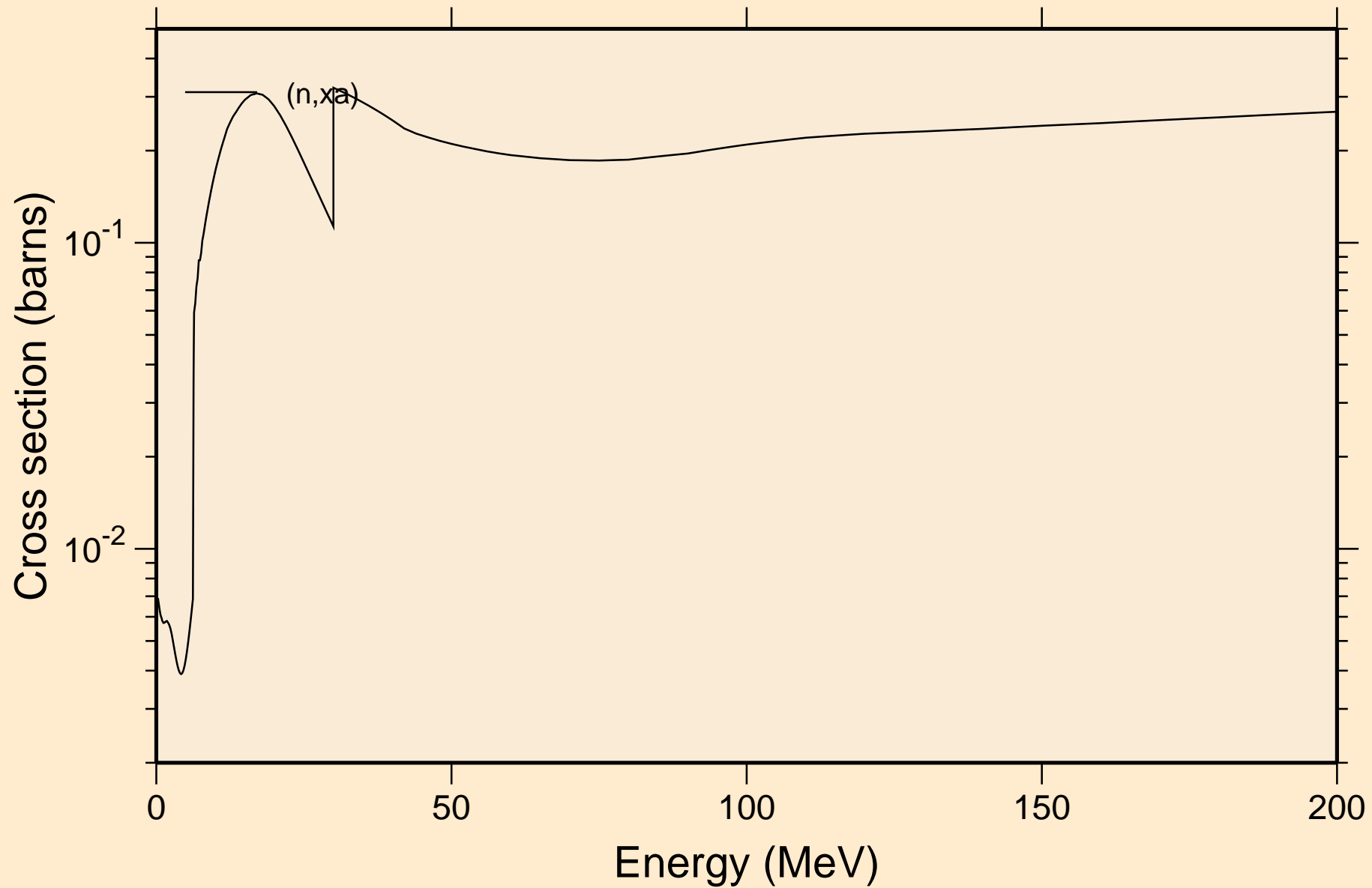




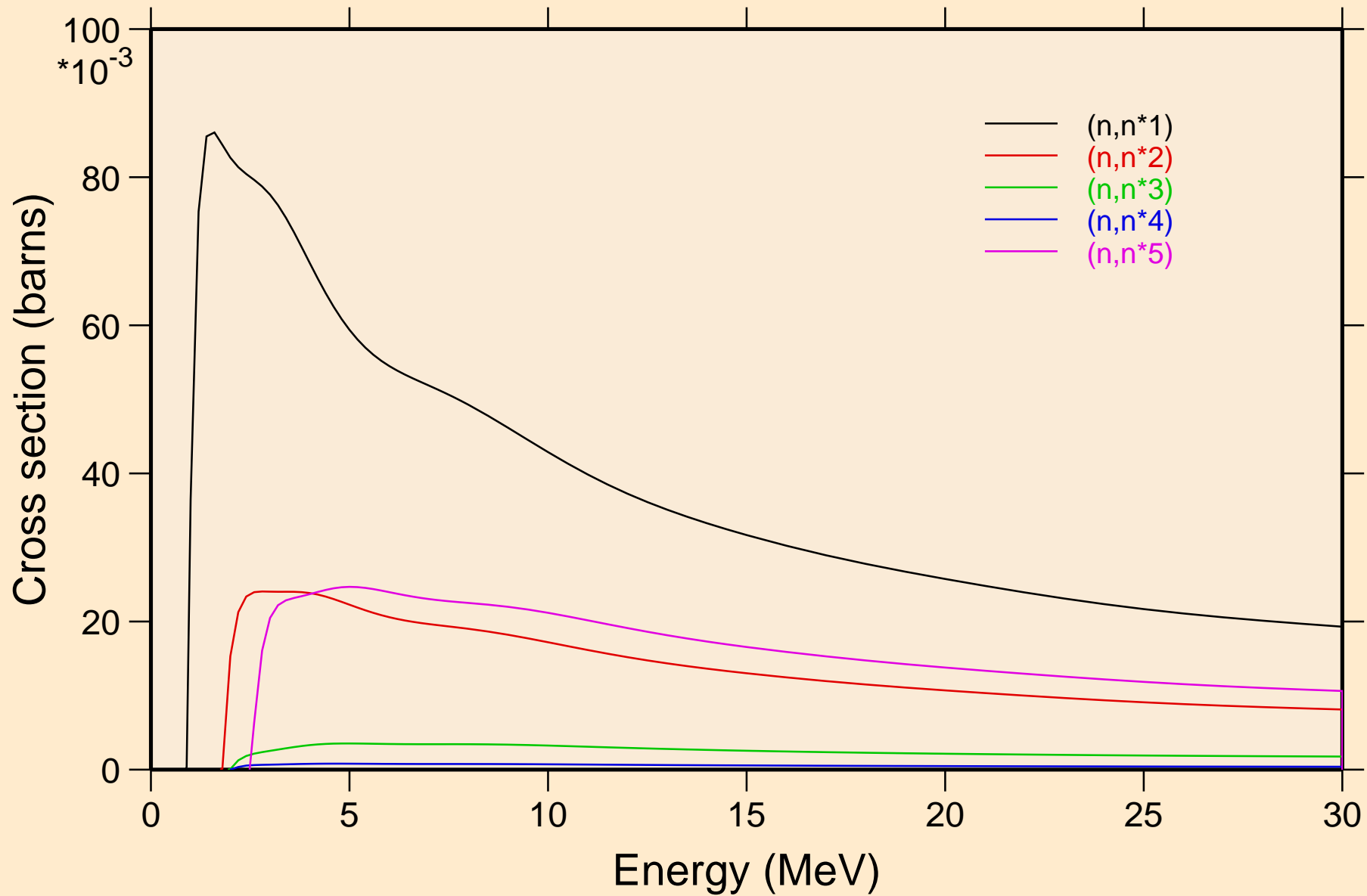
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Non-threshold reactions



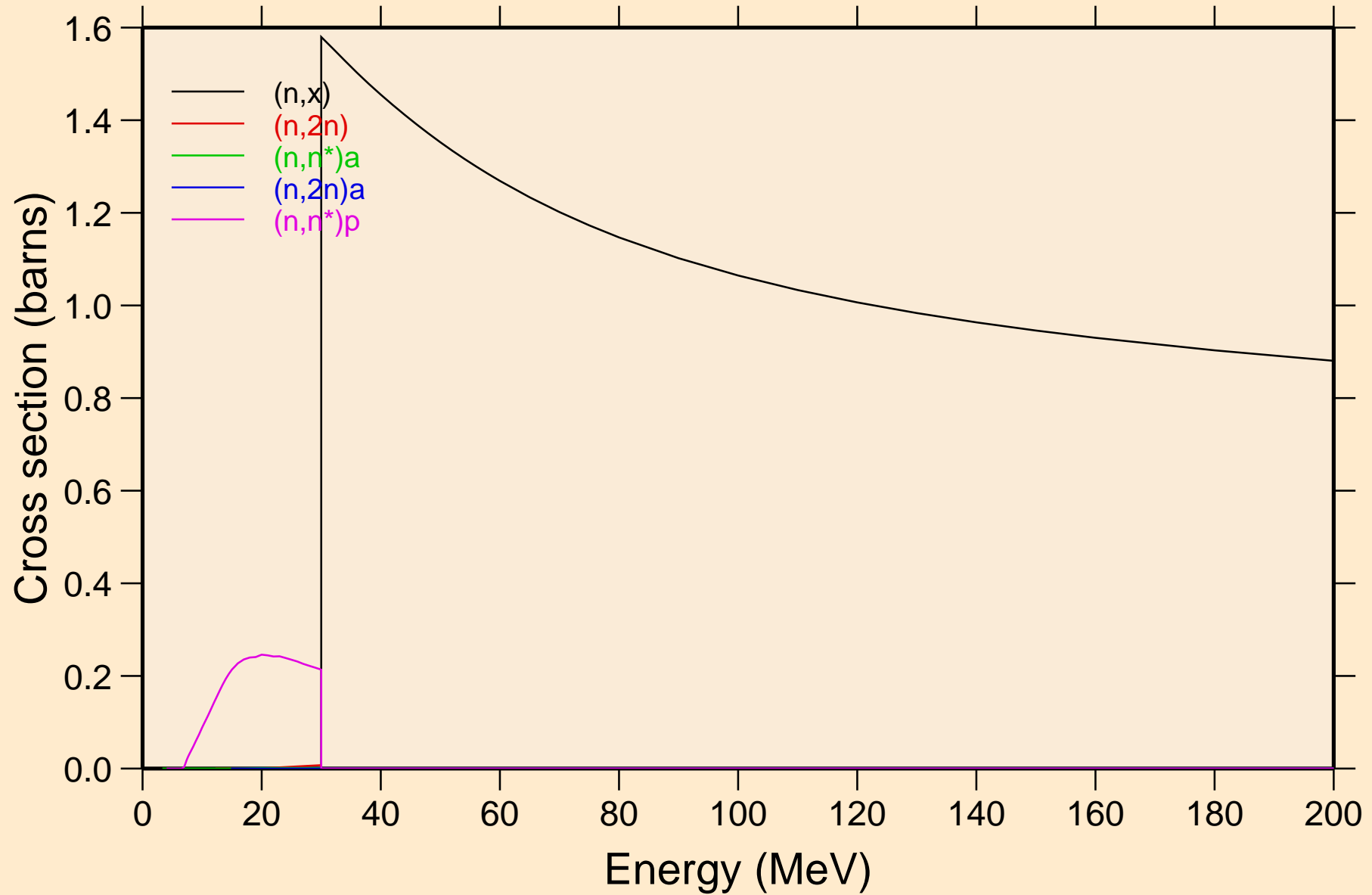
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Non-threshold reactions



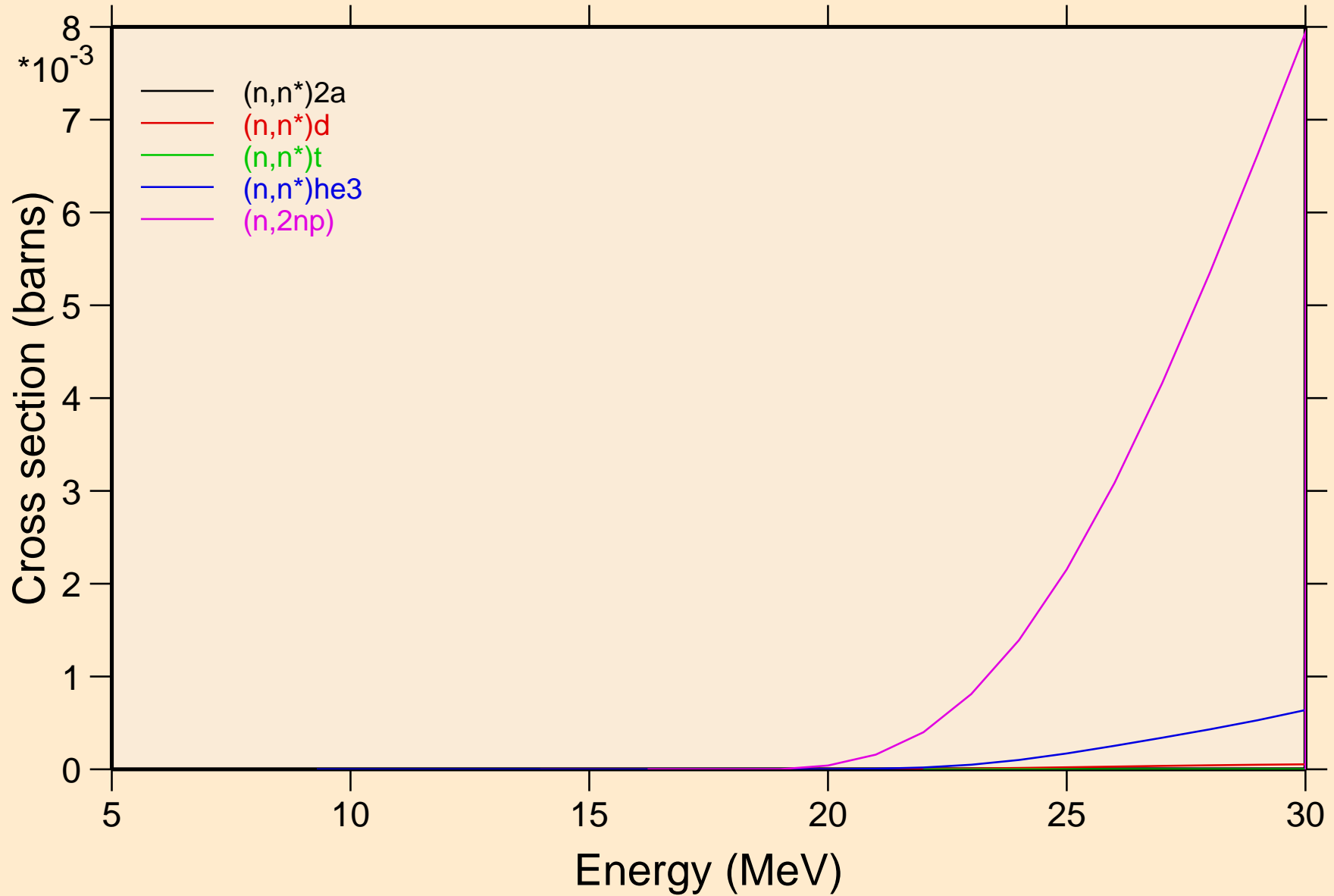
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

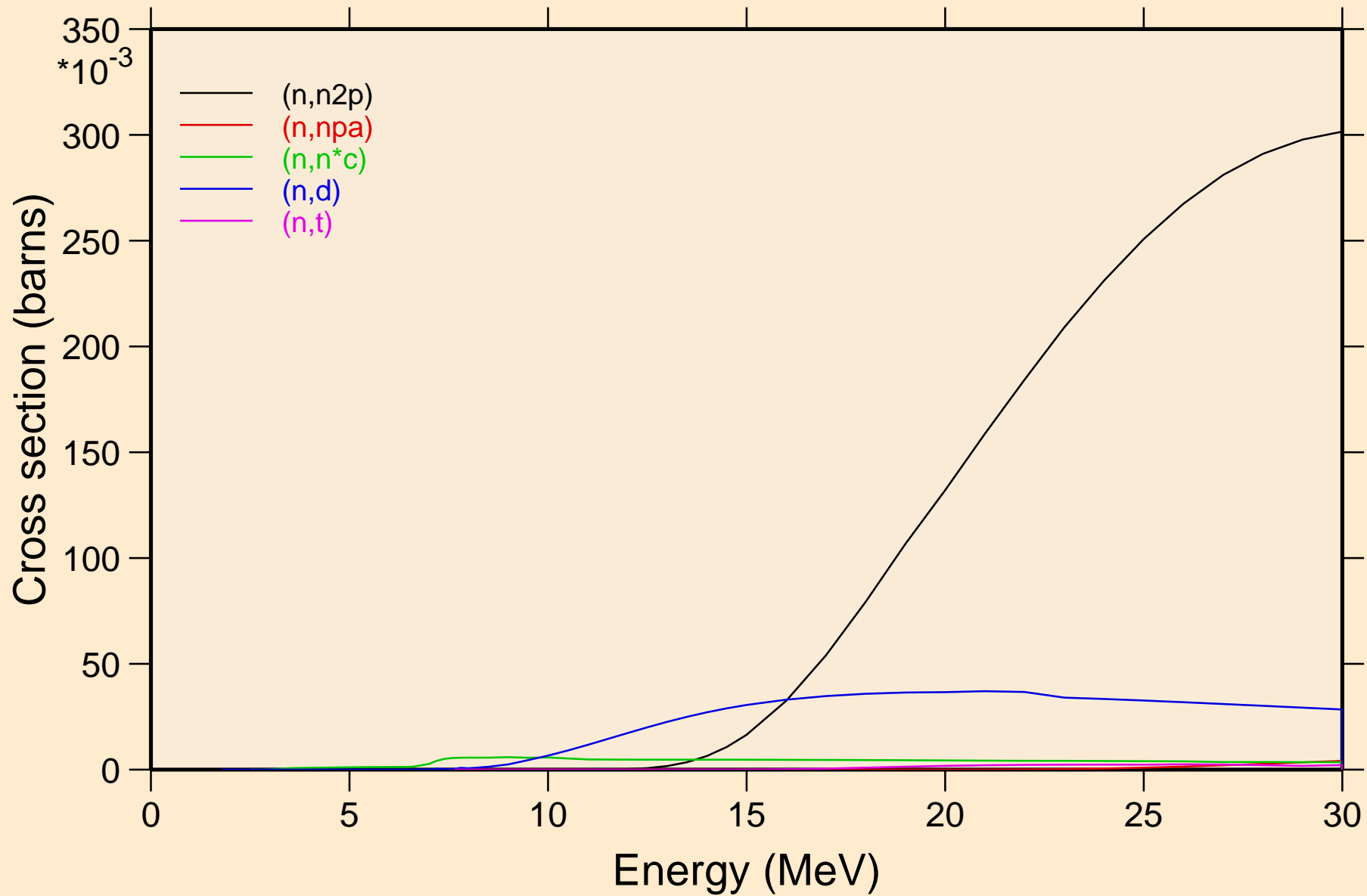


RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

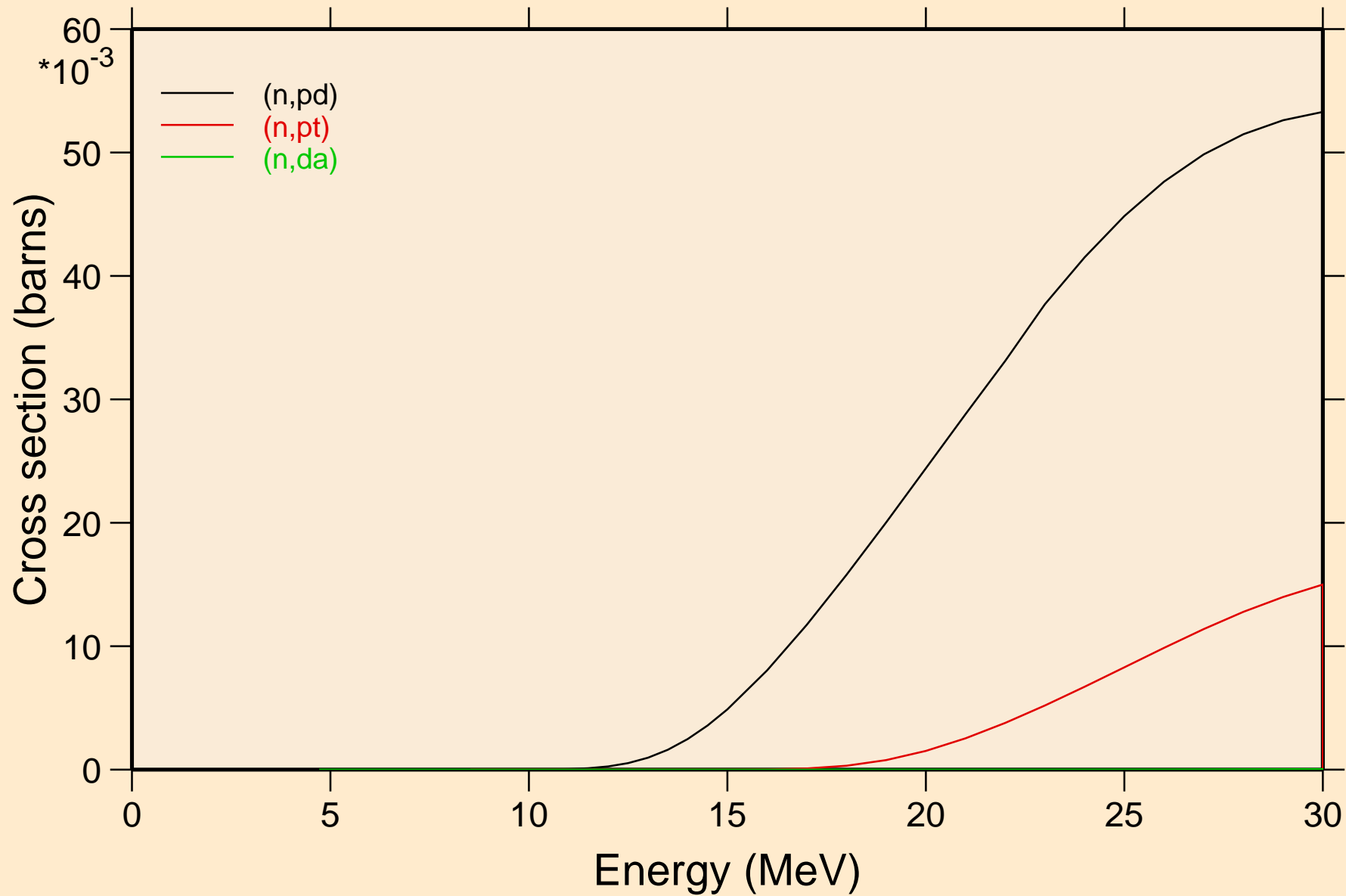


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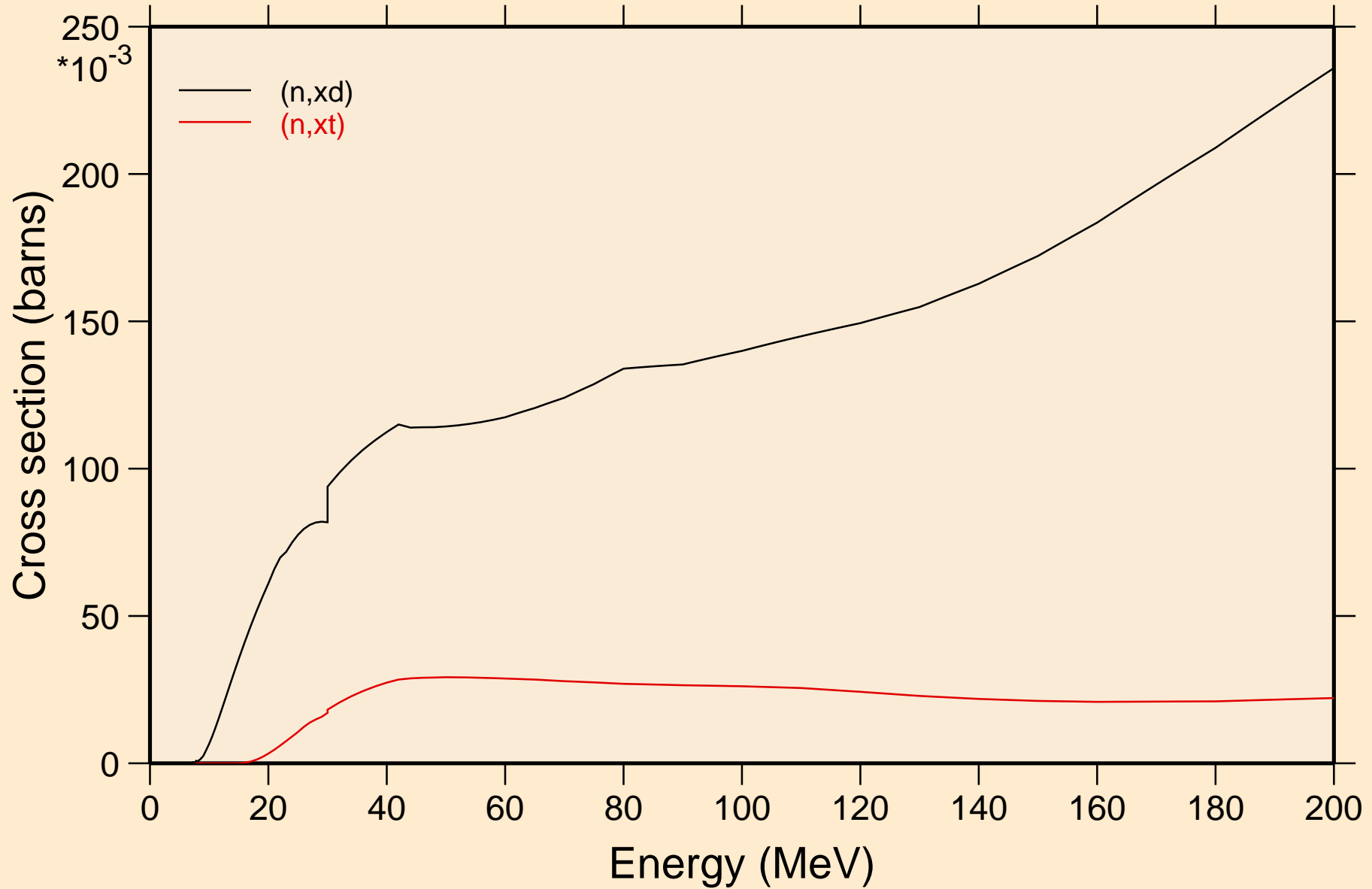
## Threshold reactions



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

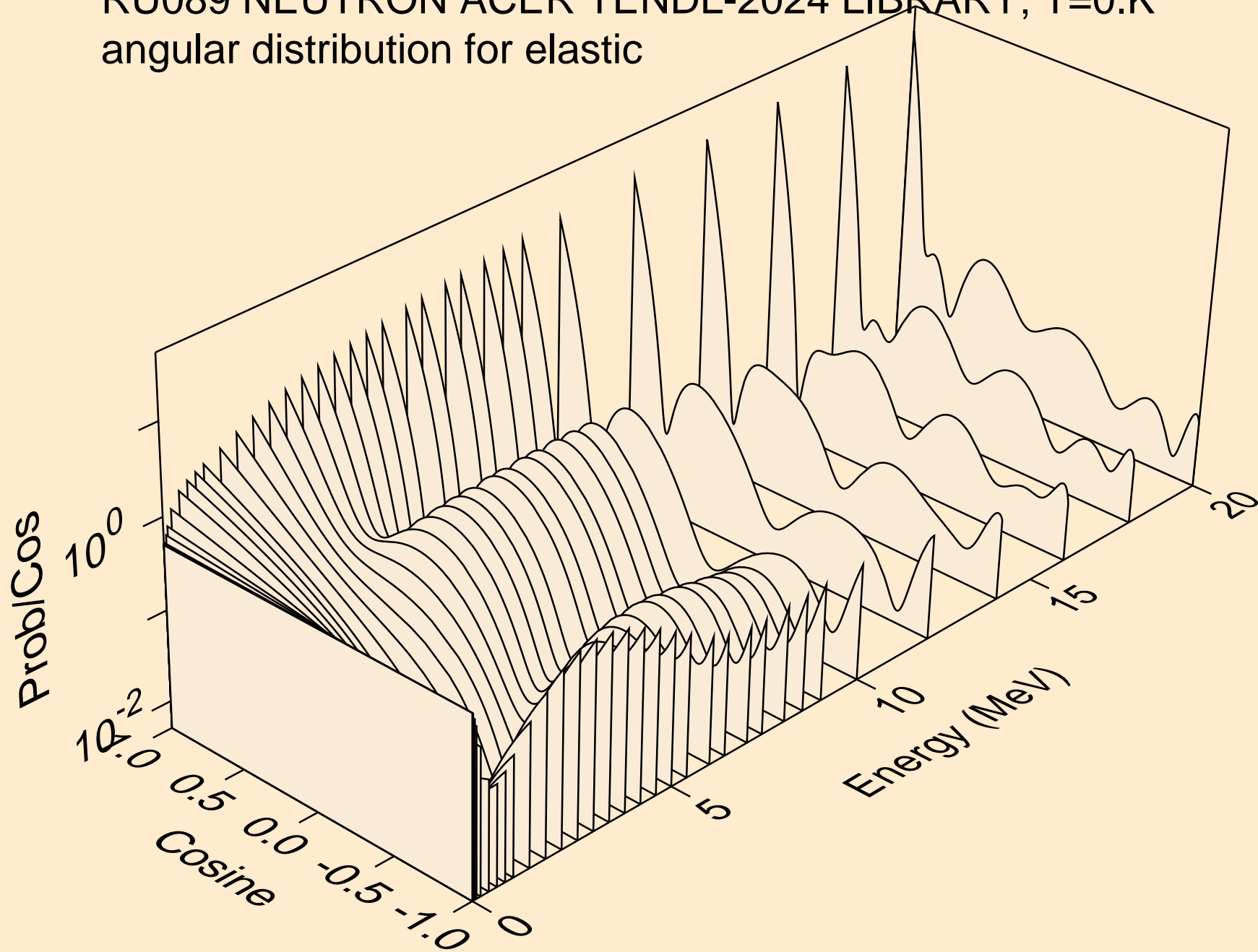


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Threshold reactions

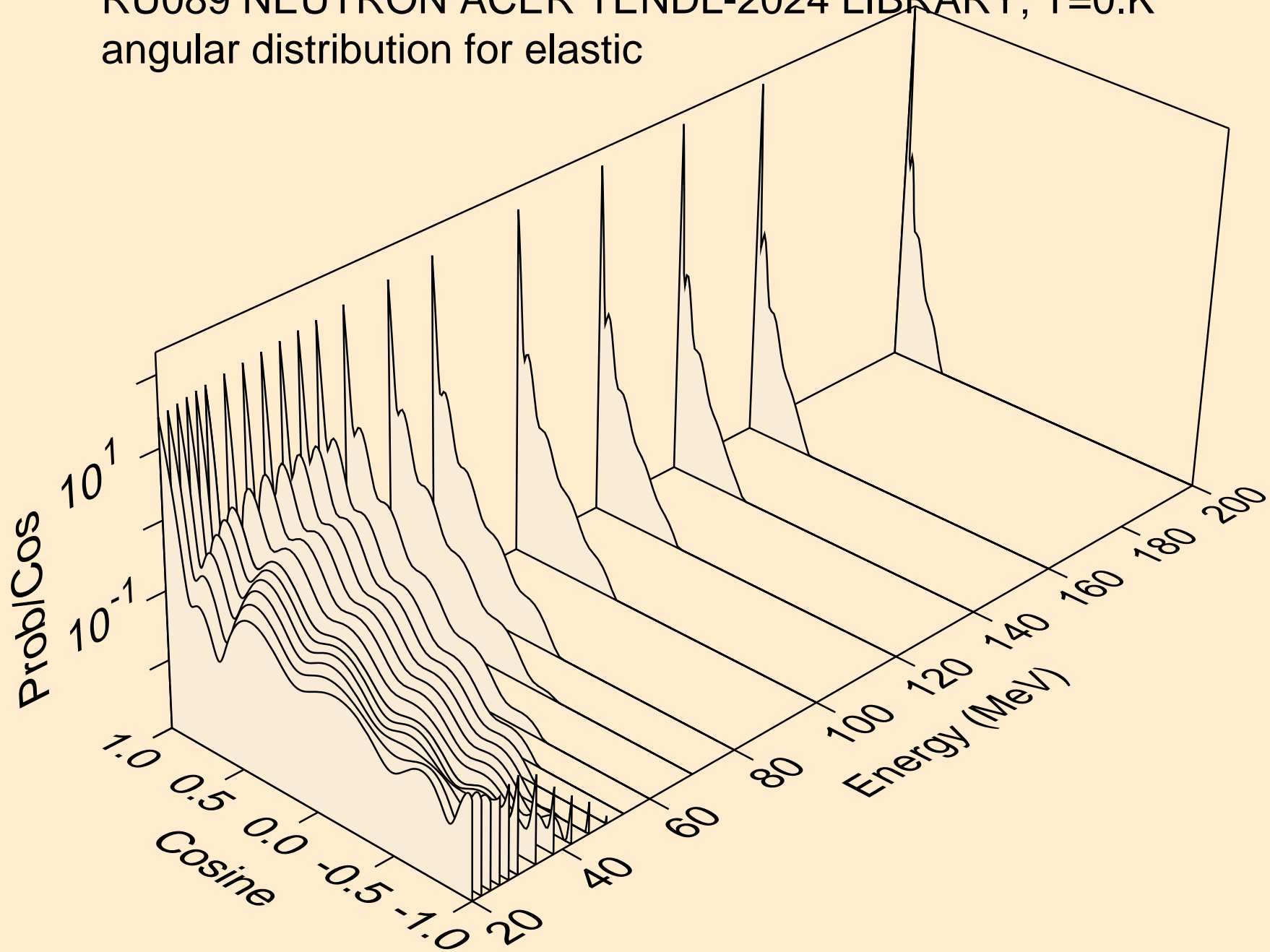




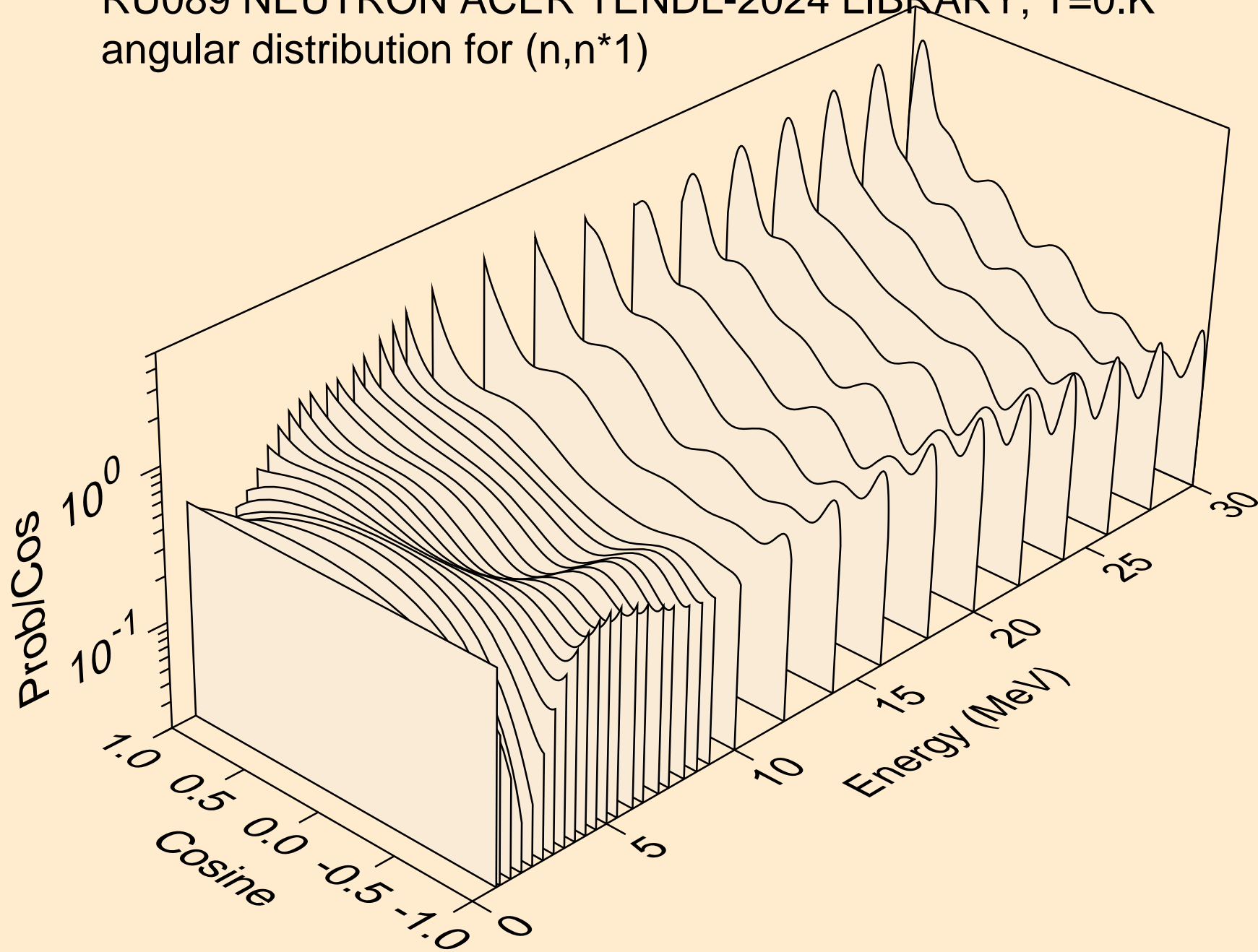
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angular distribution for elastic



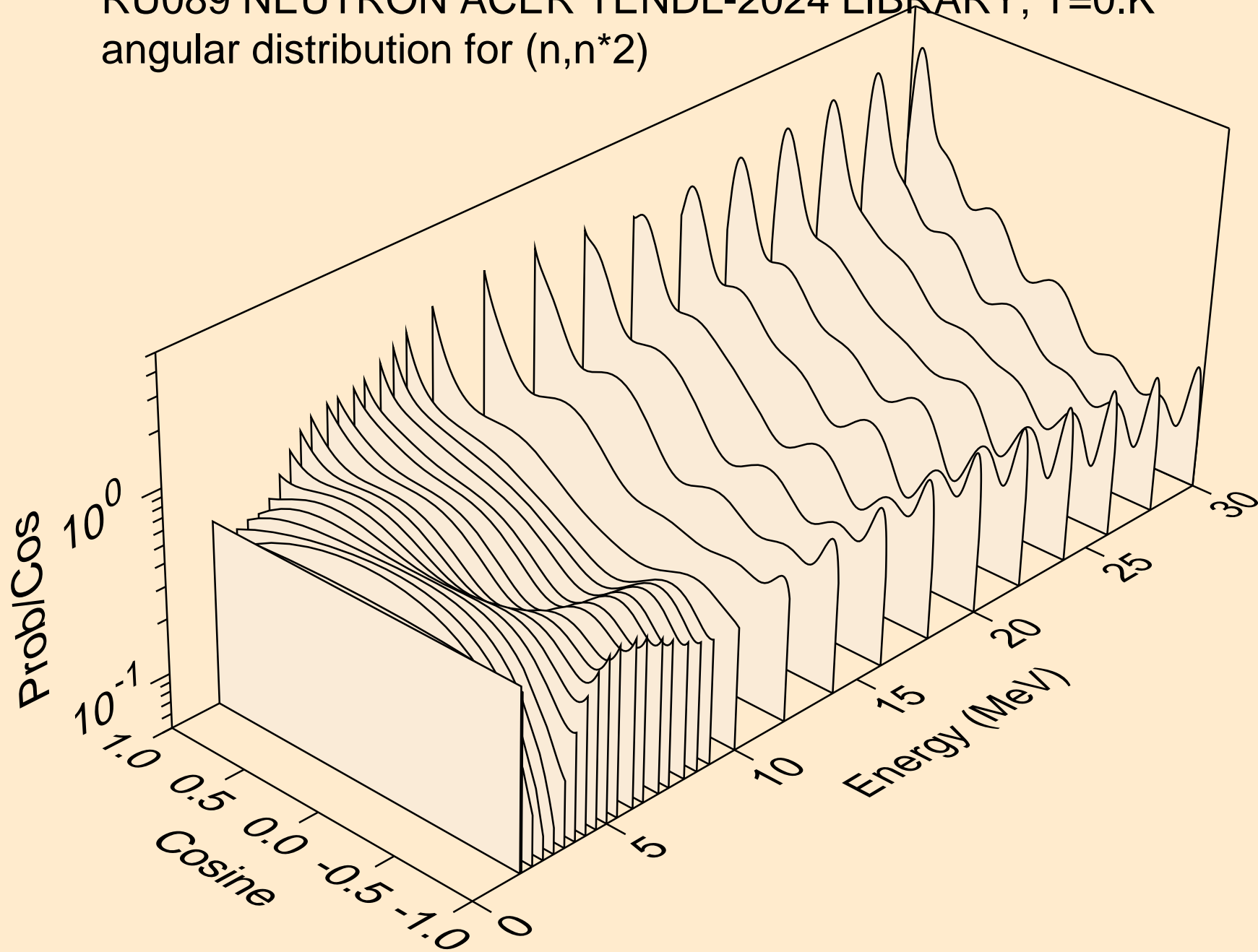
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angular distribution for elastic



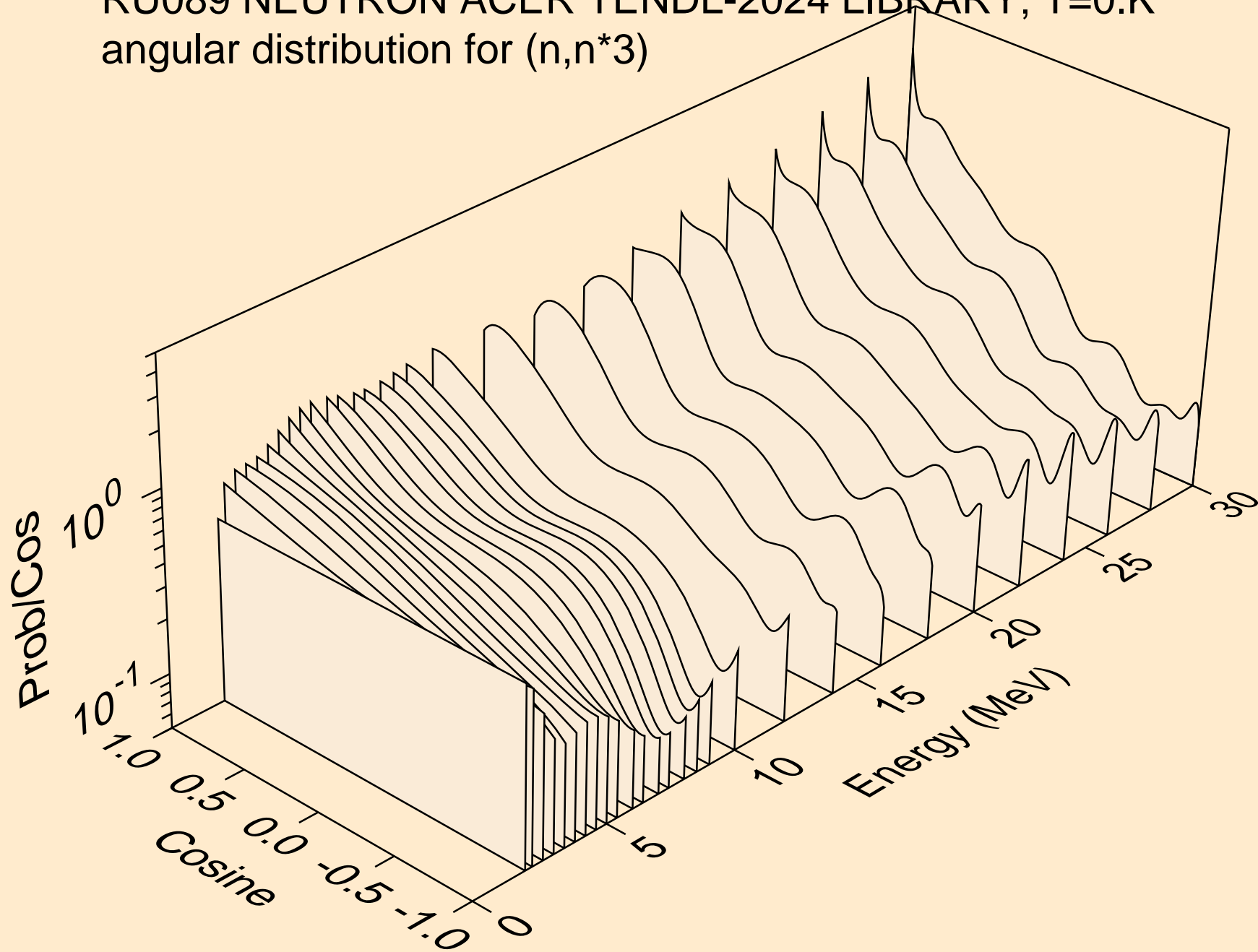
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angular distribution for (n,n\*1)



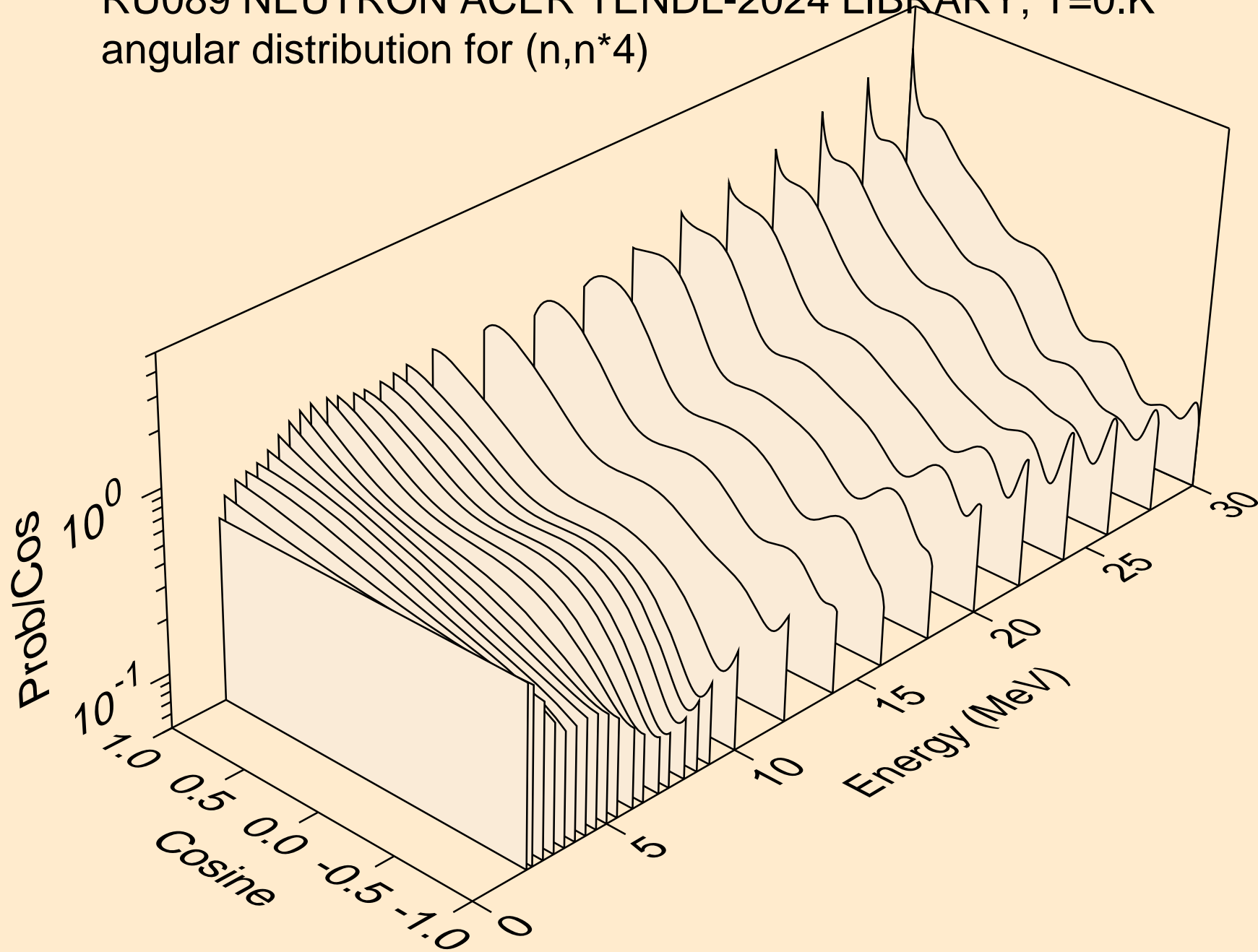
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angular distribution for (n,n\*2)



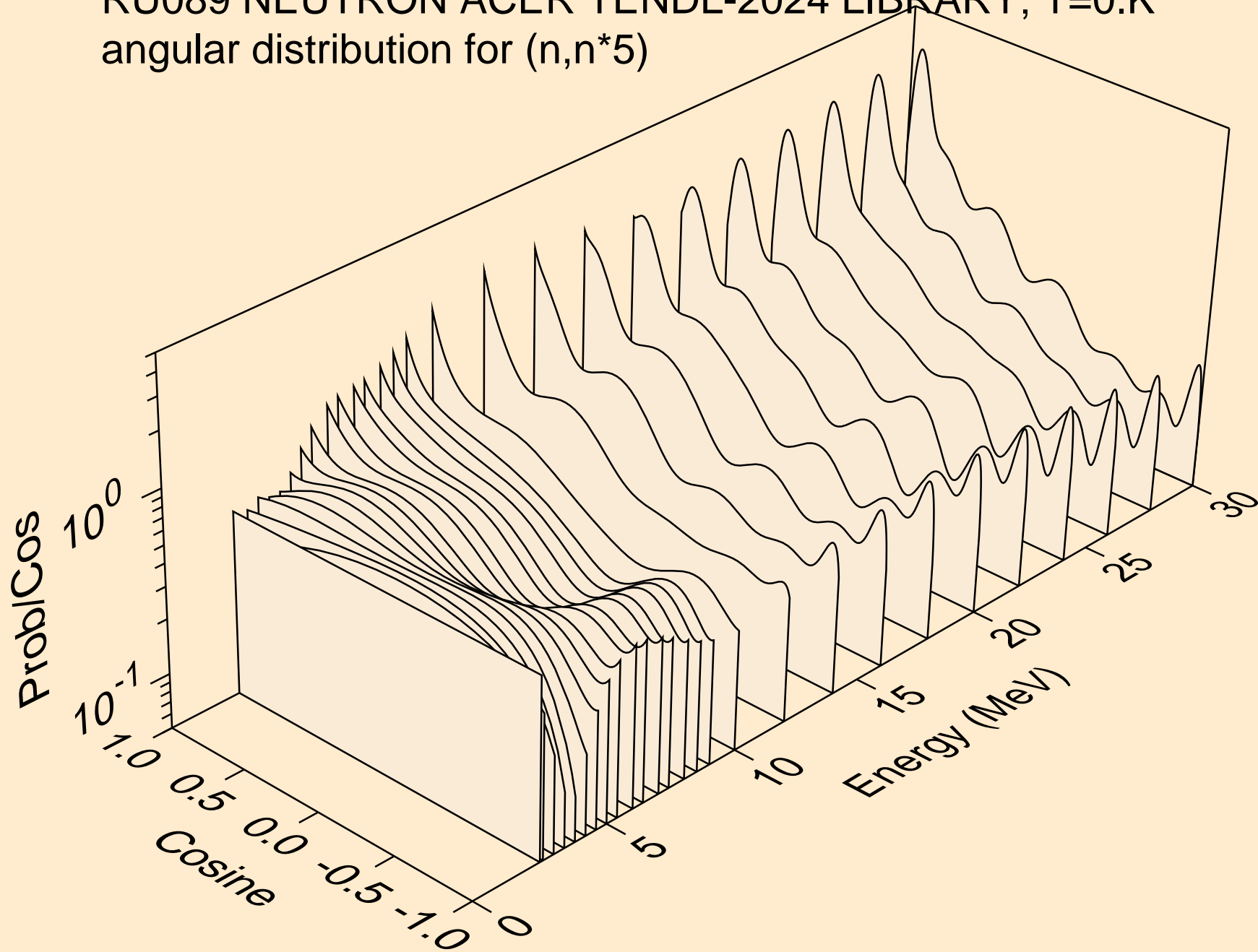
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angular distribution for (n,n\*3)



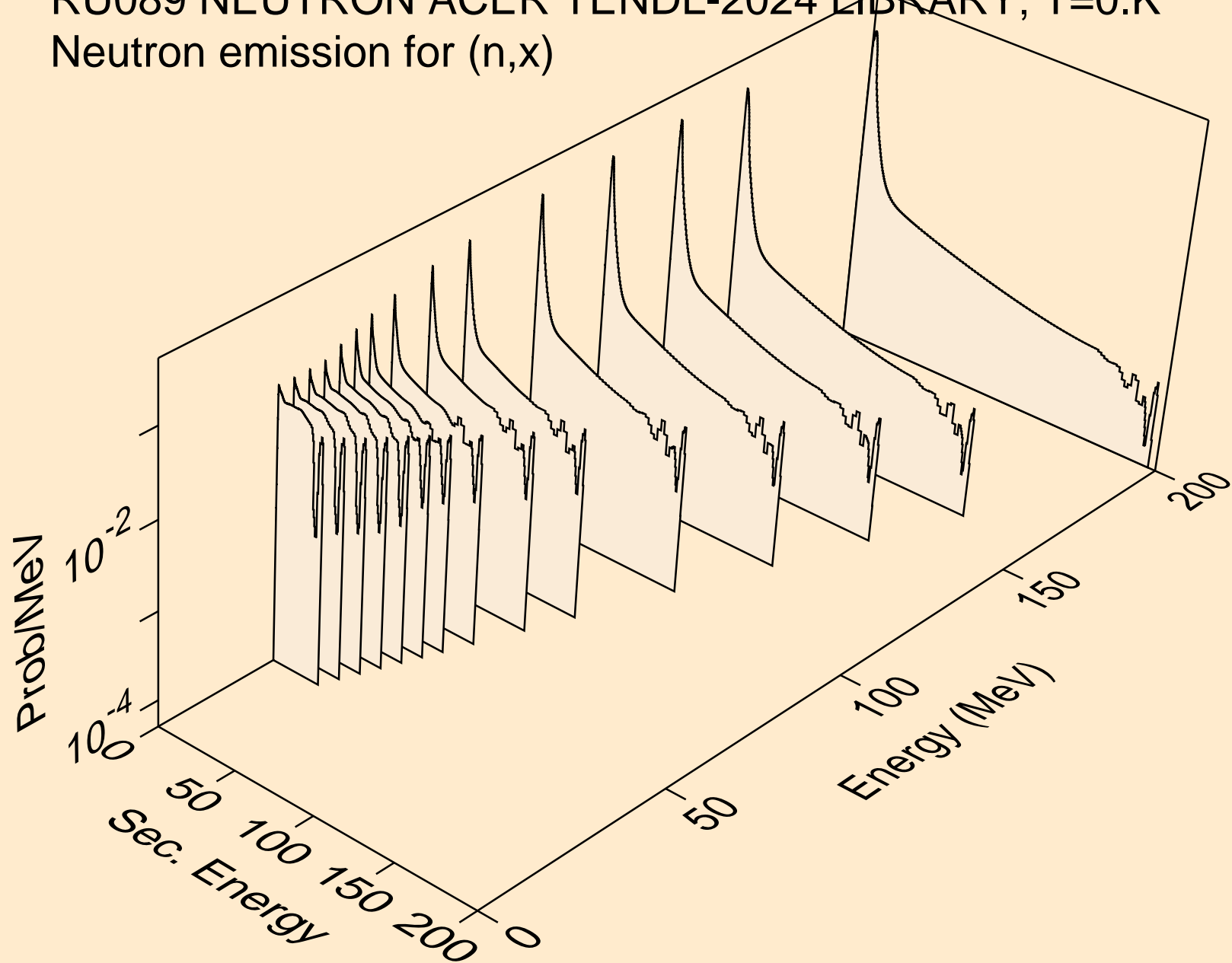
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*5)

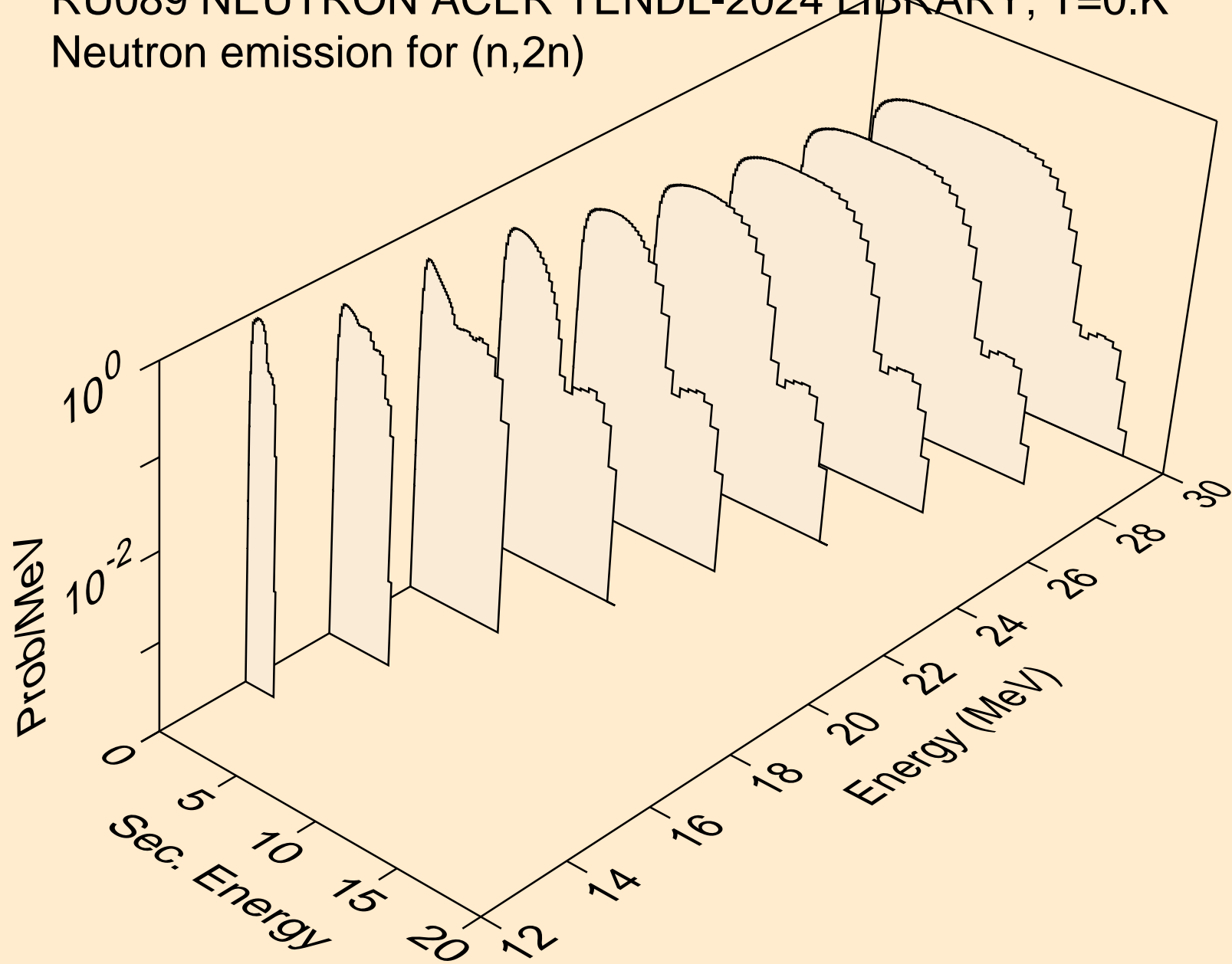


RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)

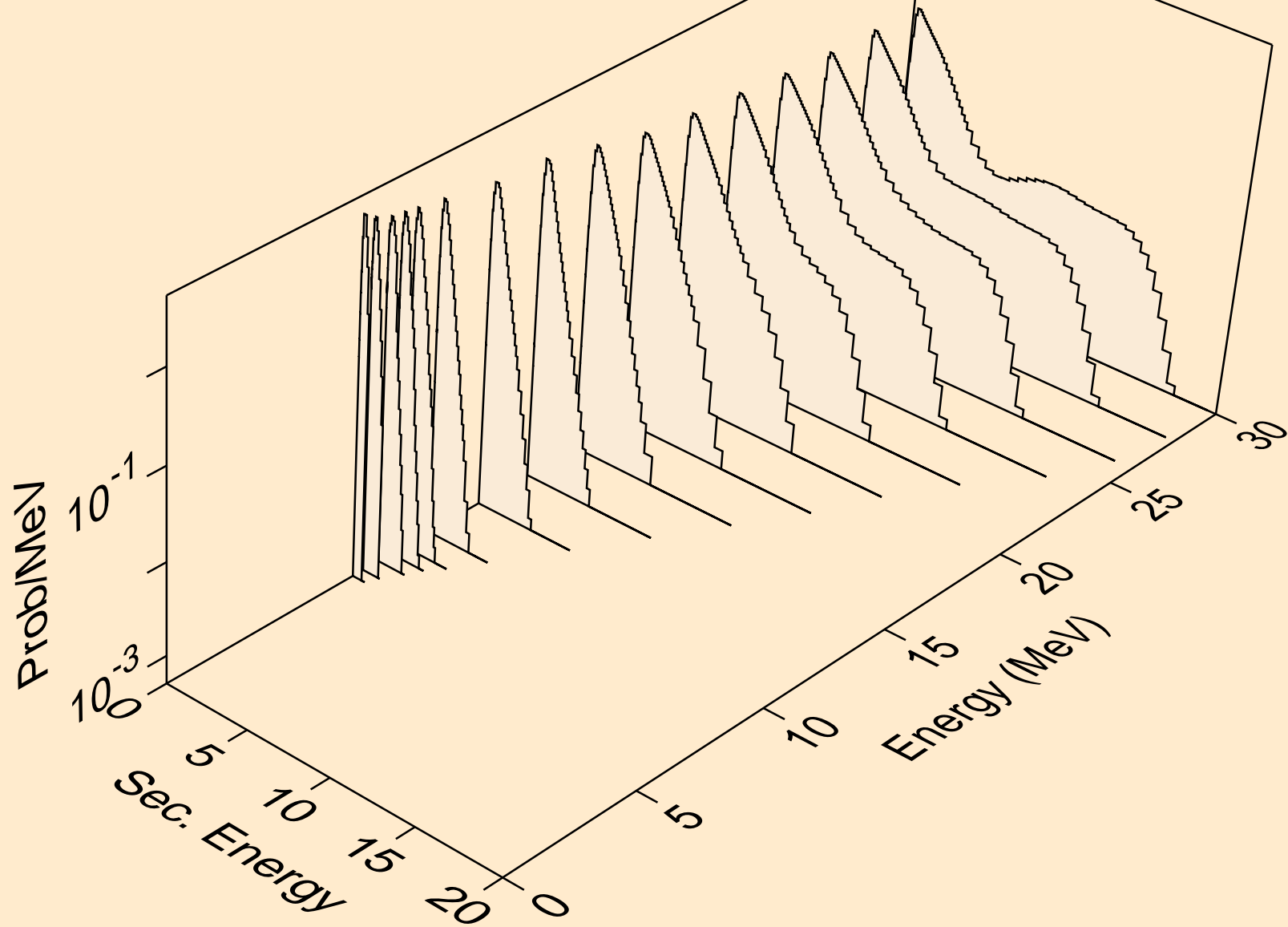




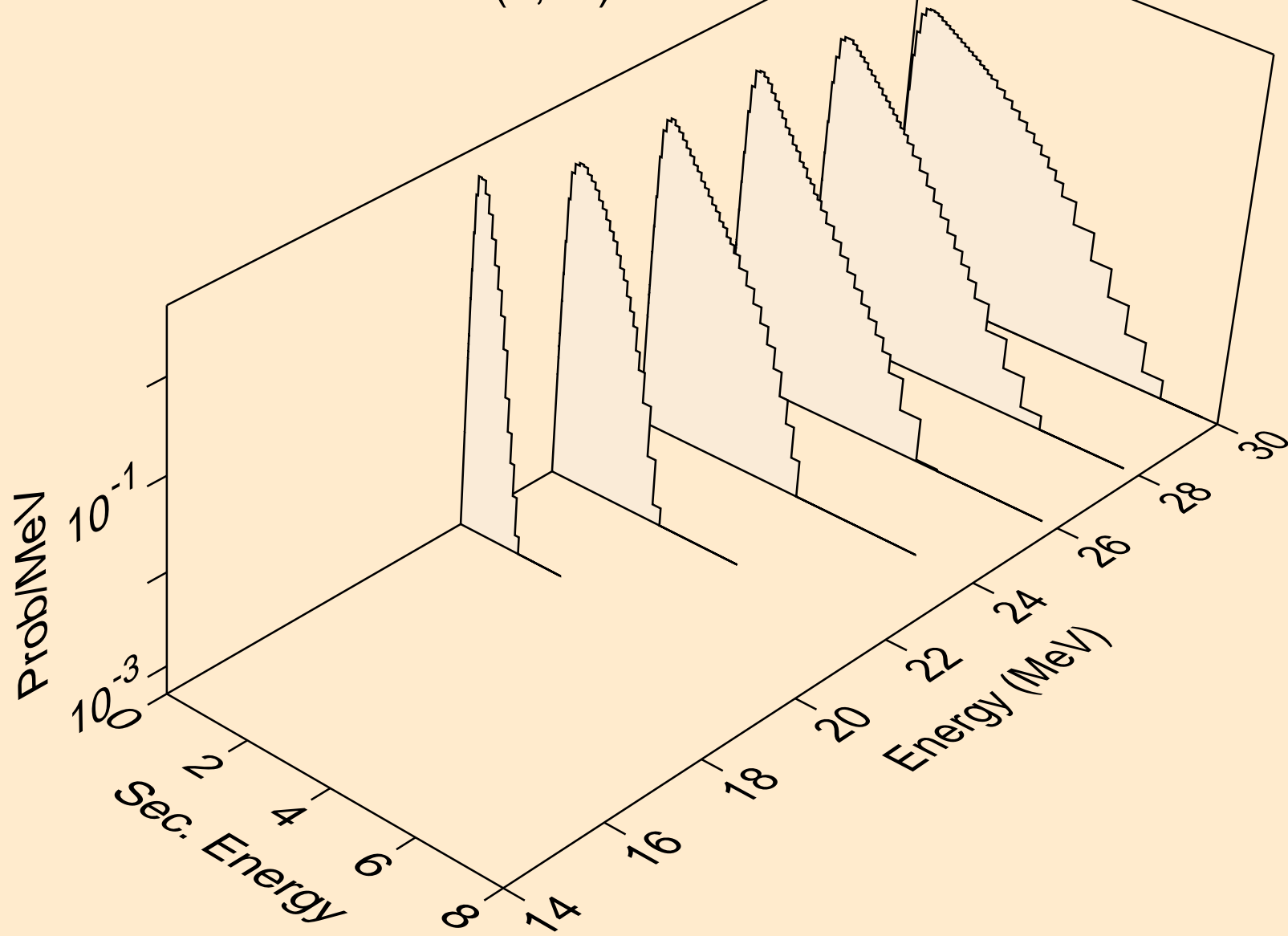
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Neutron emission for (n,2n)



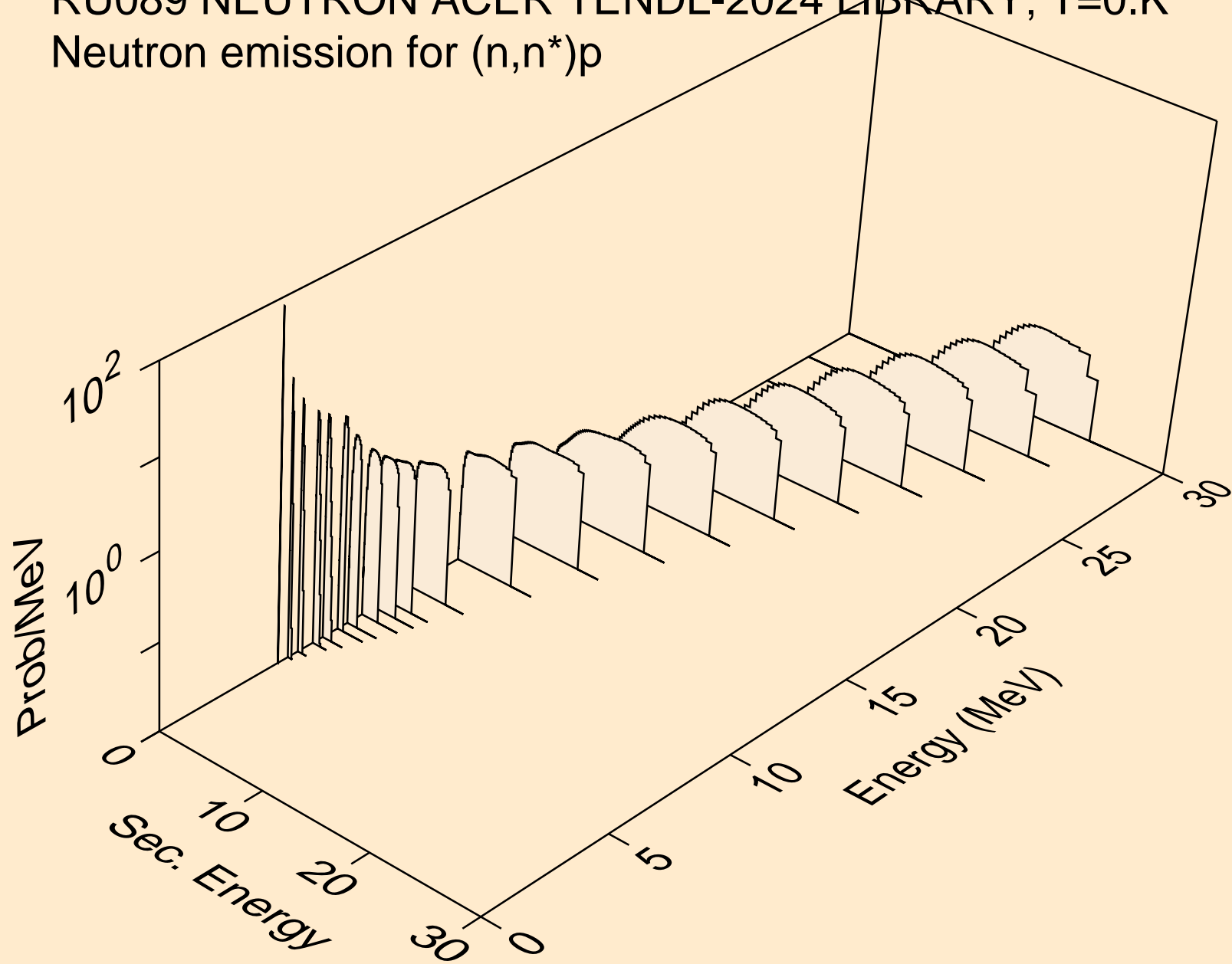
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Neutron emission for (n,n\*)a



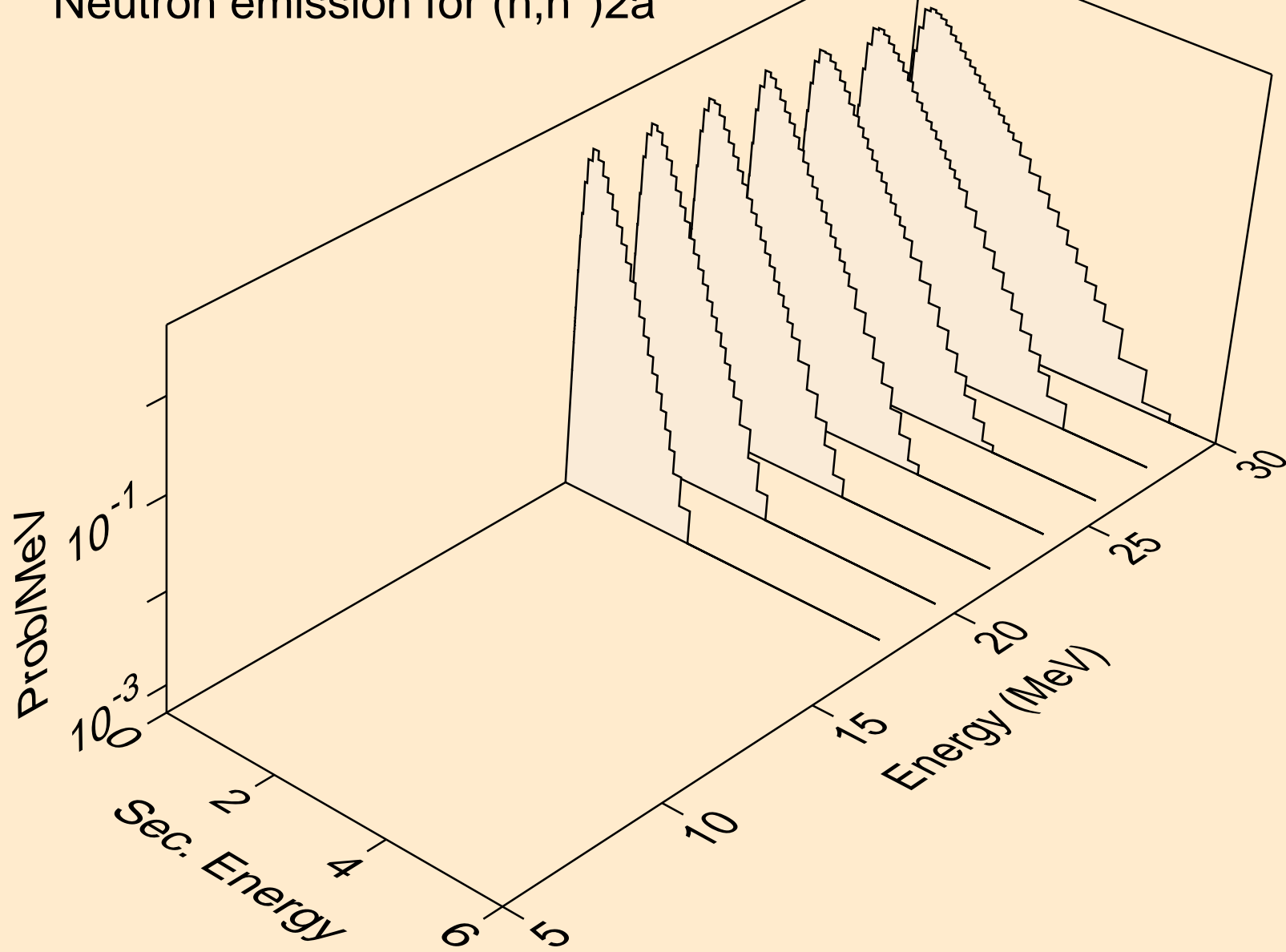
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Neutron emission for (n,2n)a



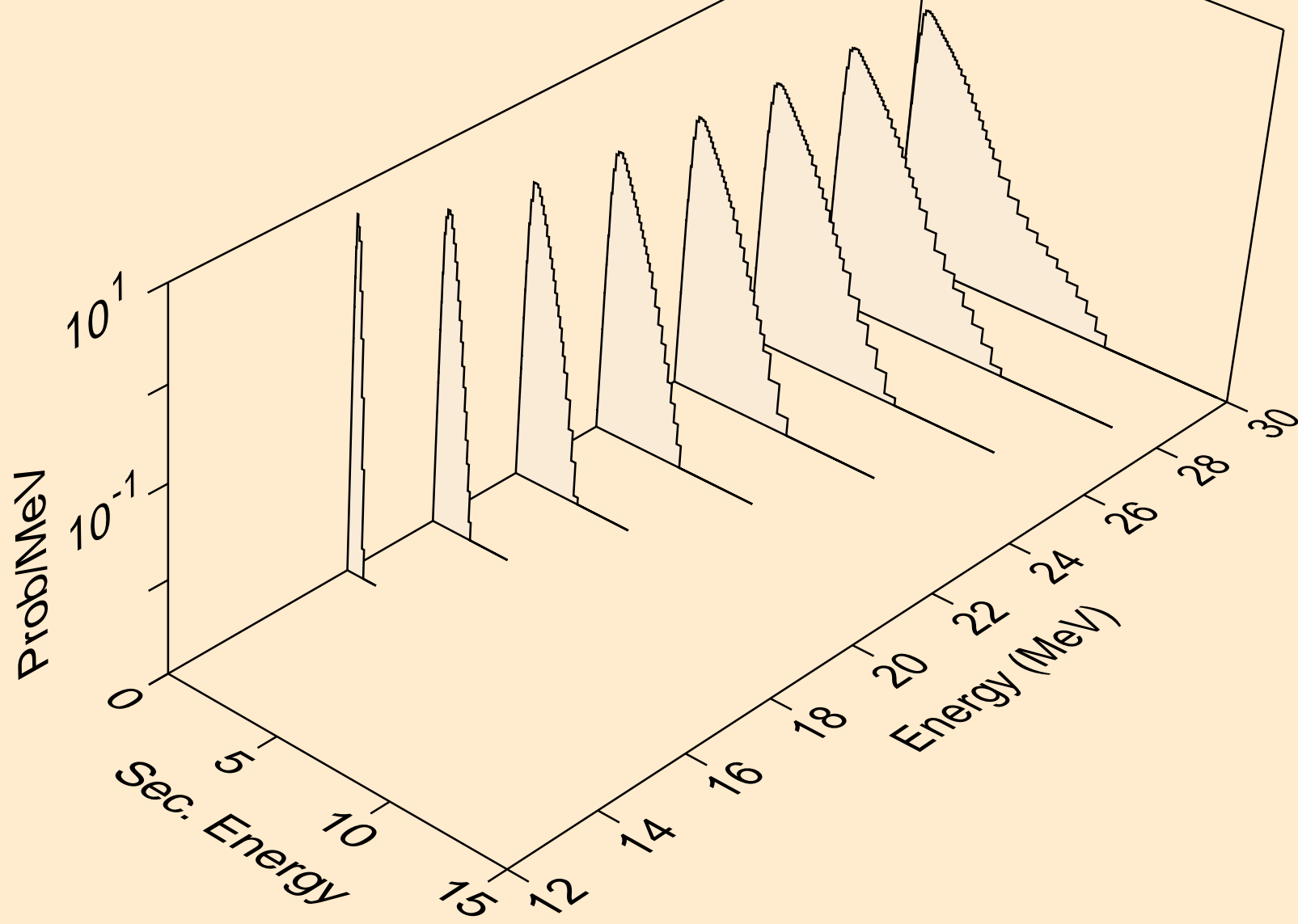
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Neutron emission for (n,n\*)p



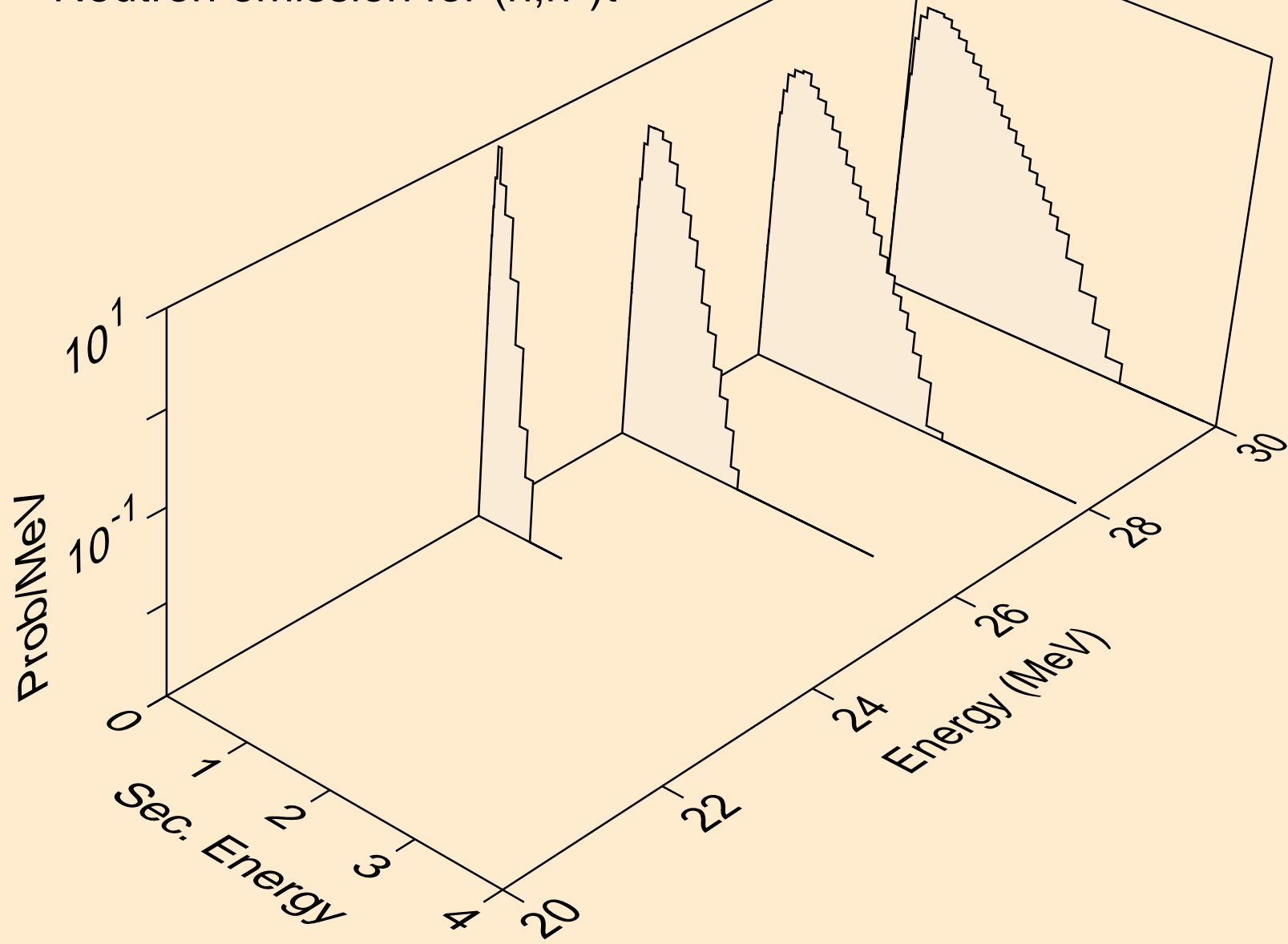
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Neutron emission for (n,n\*)2a



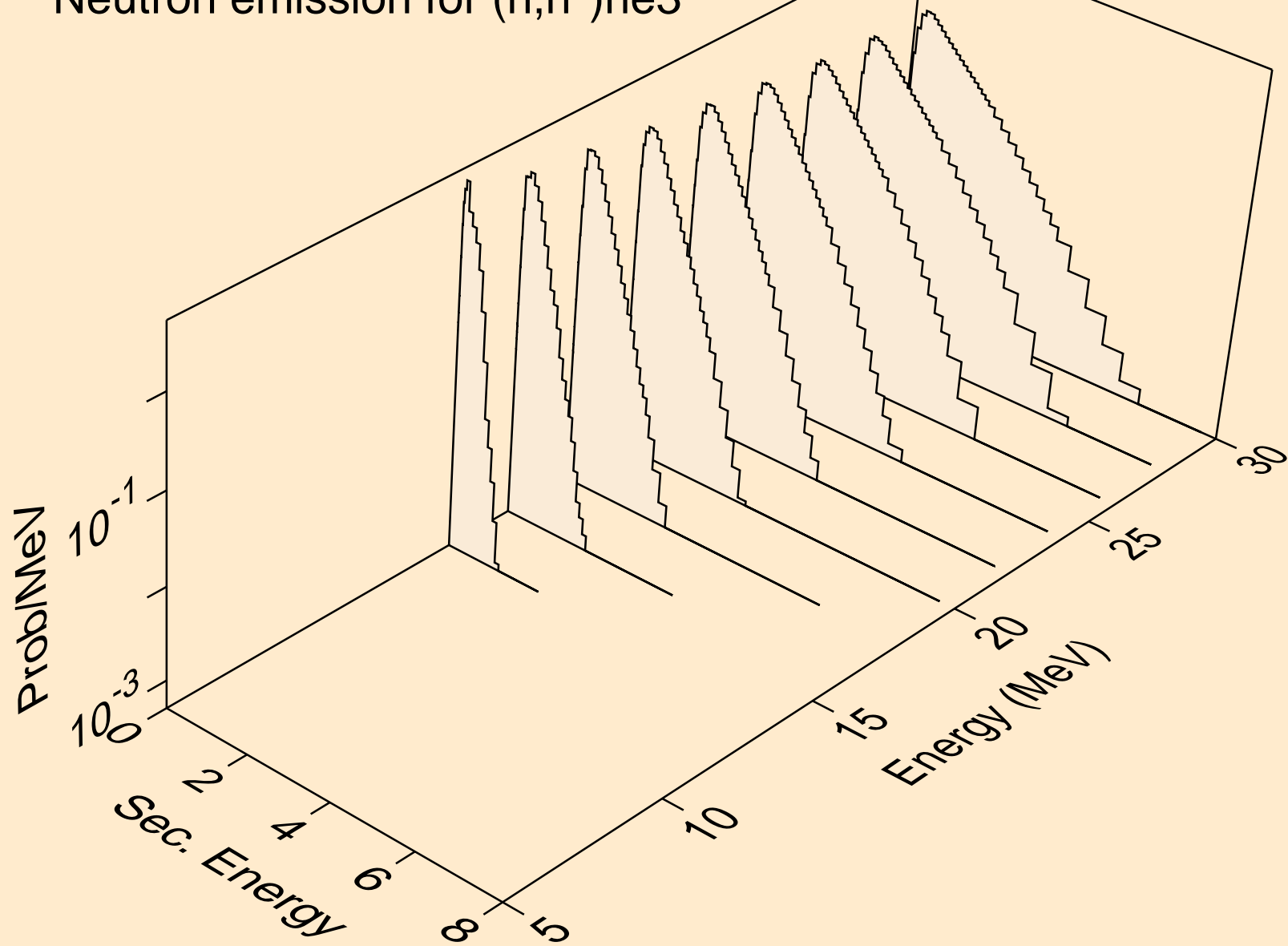
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t

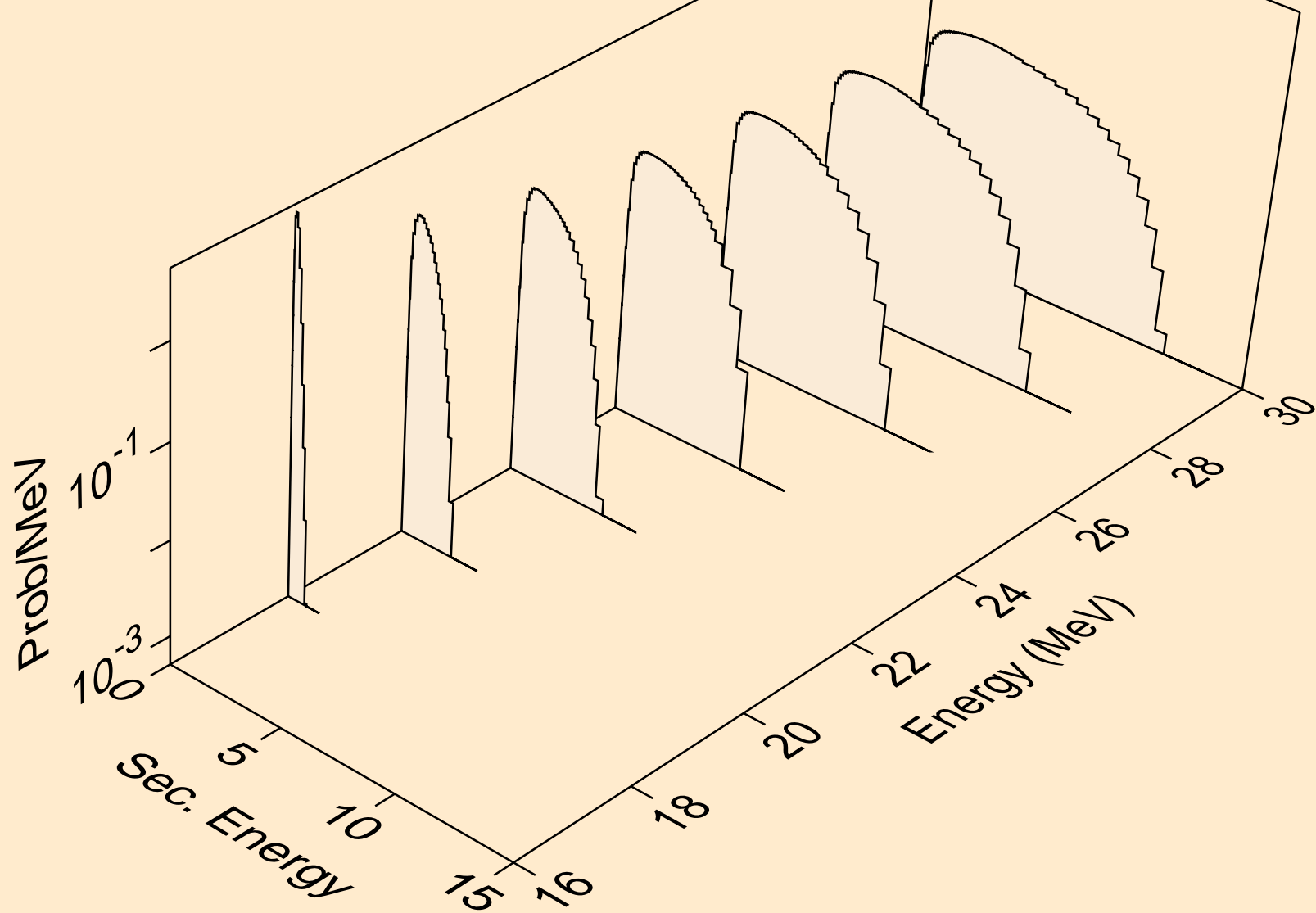


RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3

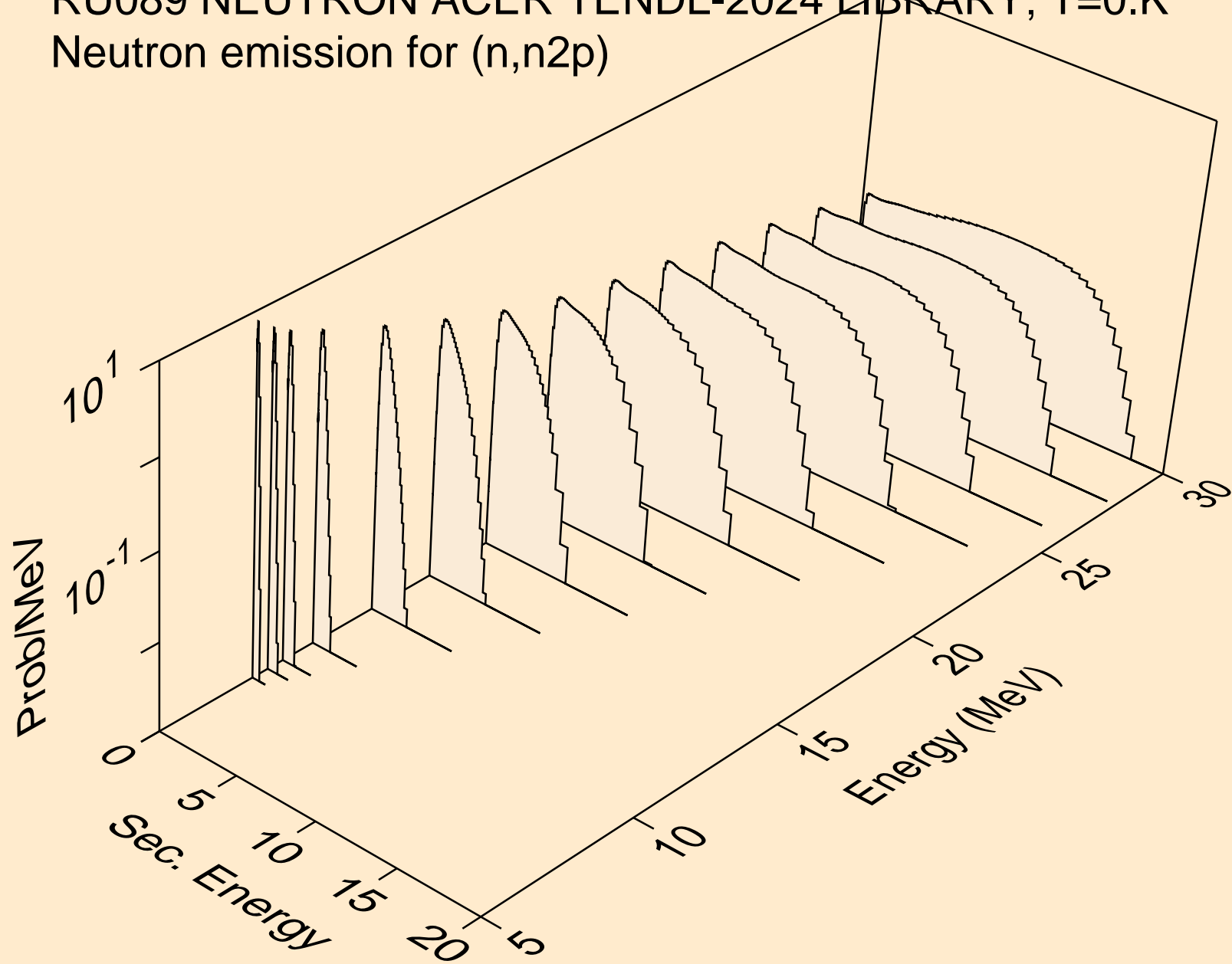




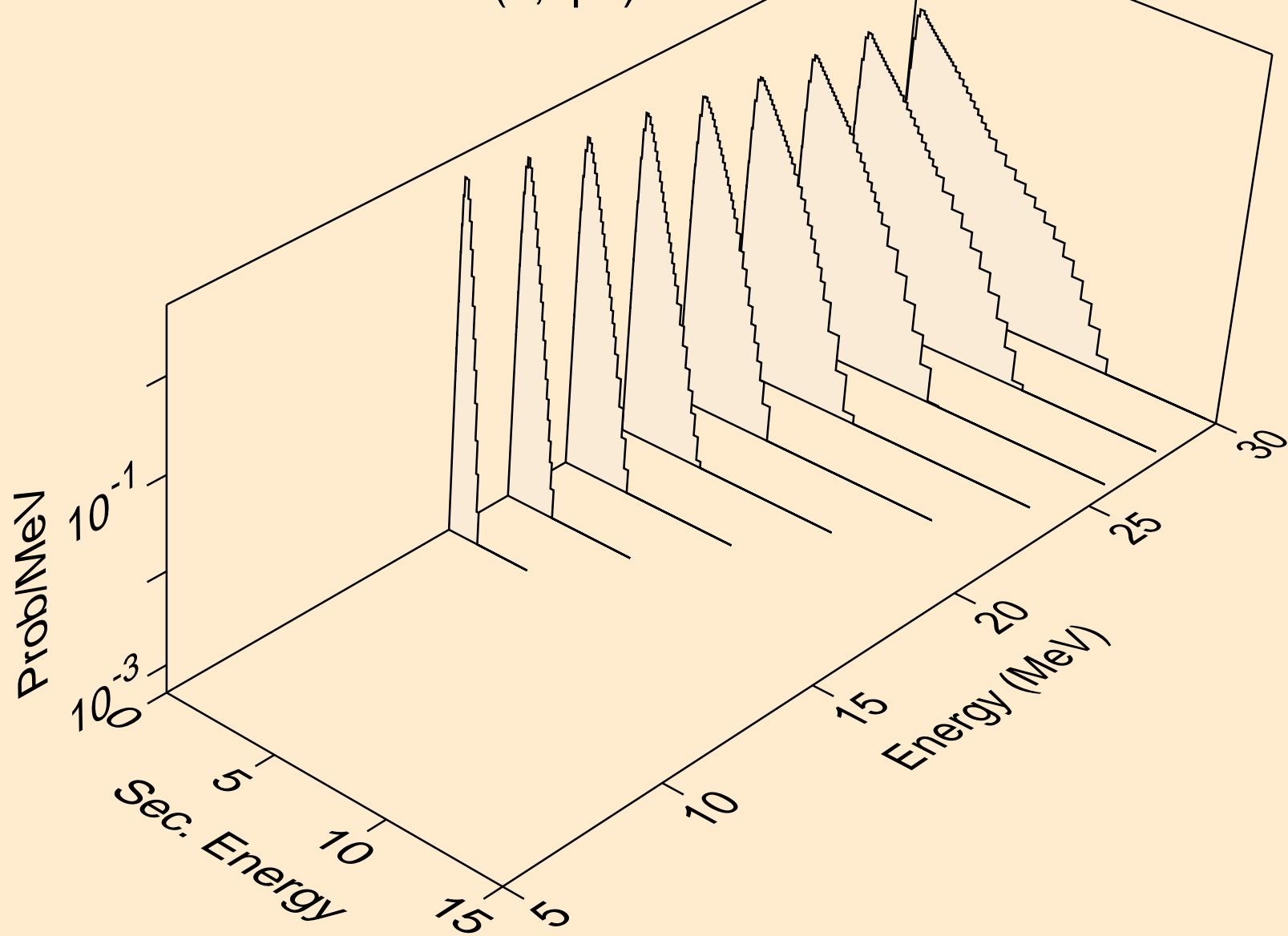
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Neutron emission for (n,2np)



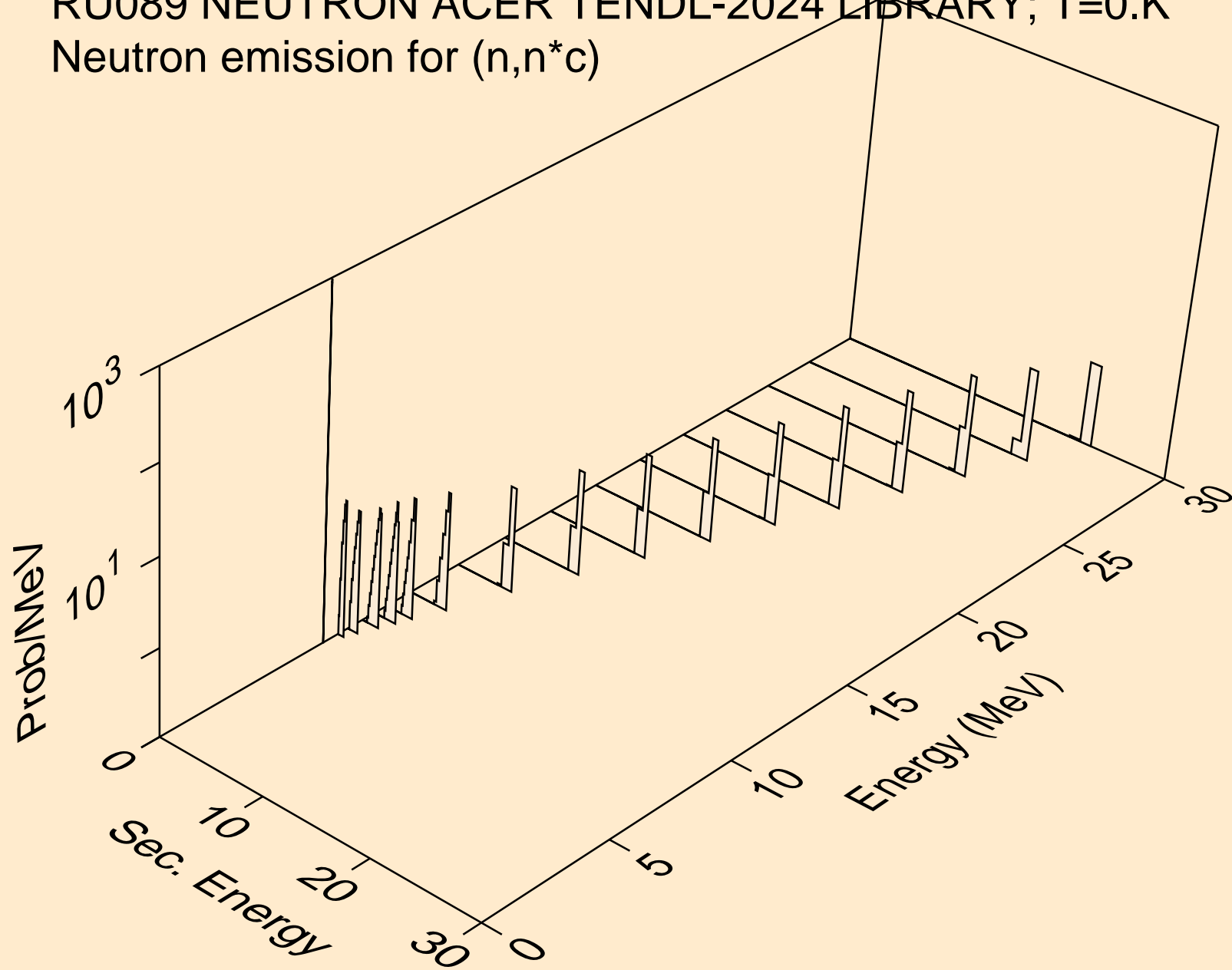
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Neutron emission for (n,n2p)



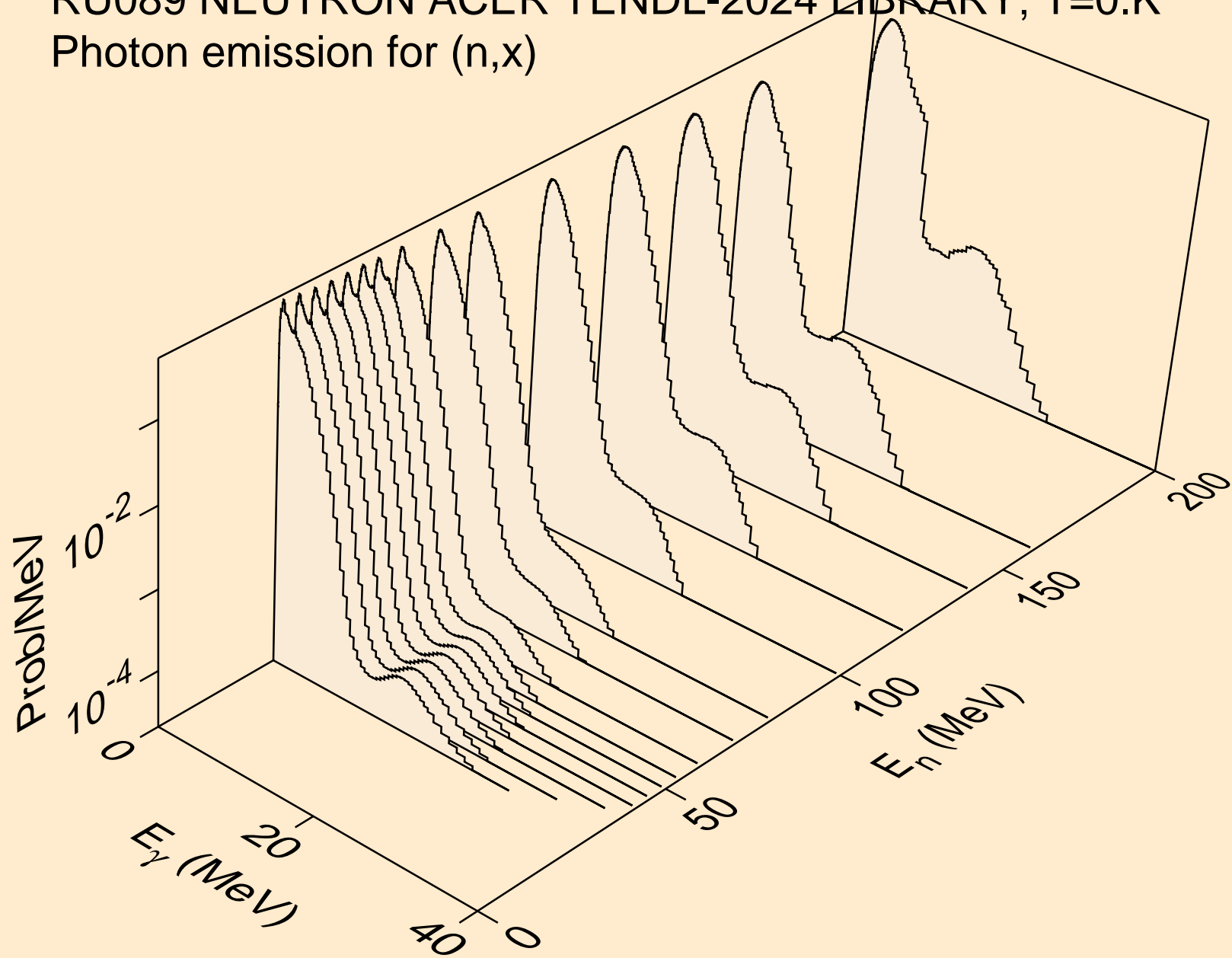
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Neutron emission for (n,npa)



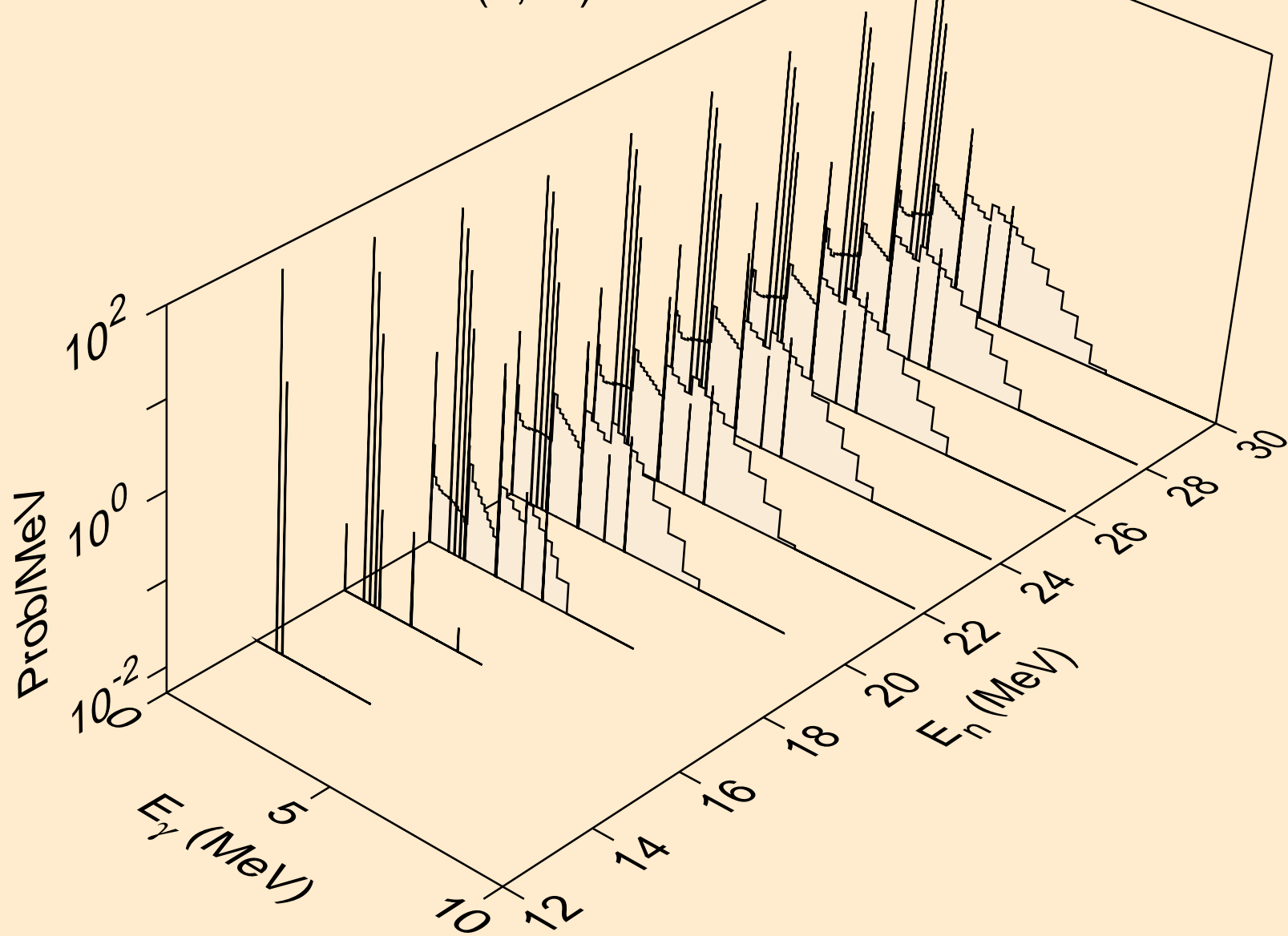
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Neutron emission for (n,n\*c)



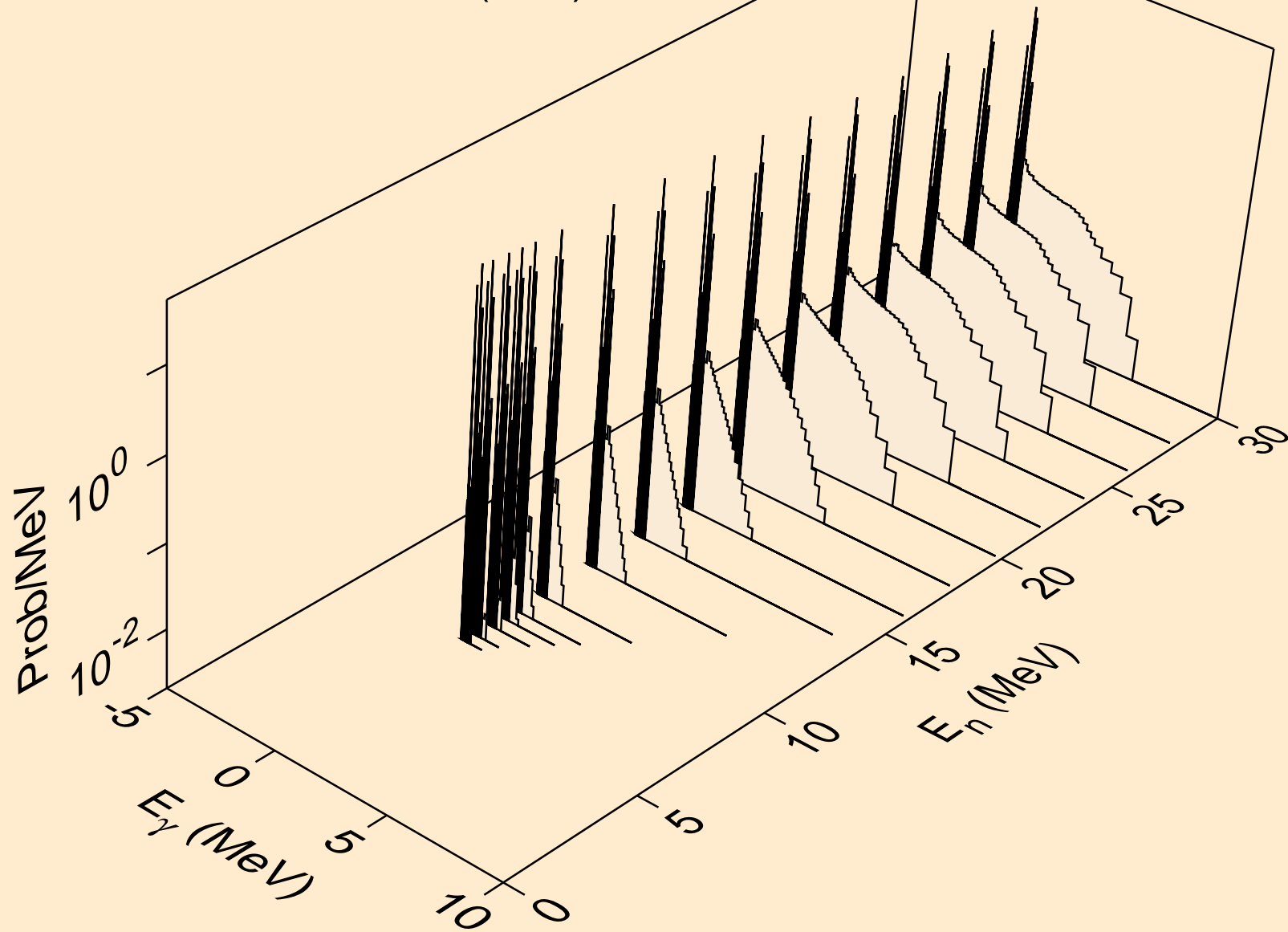
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Photon emission for (n,x)



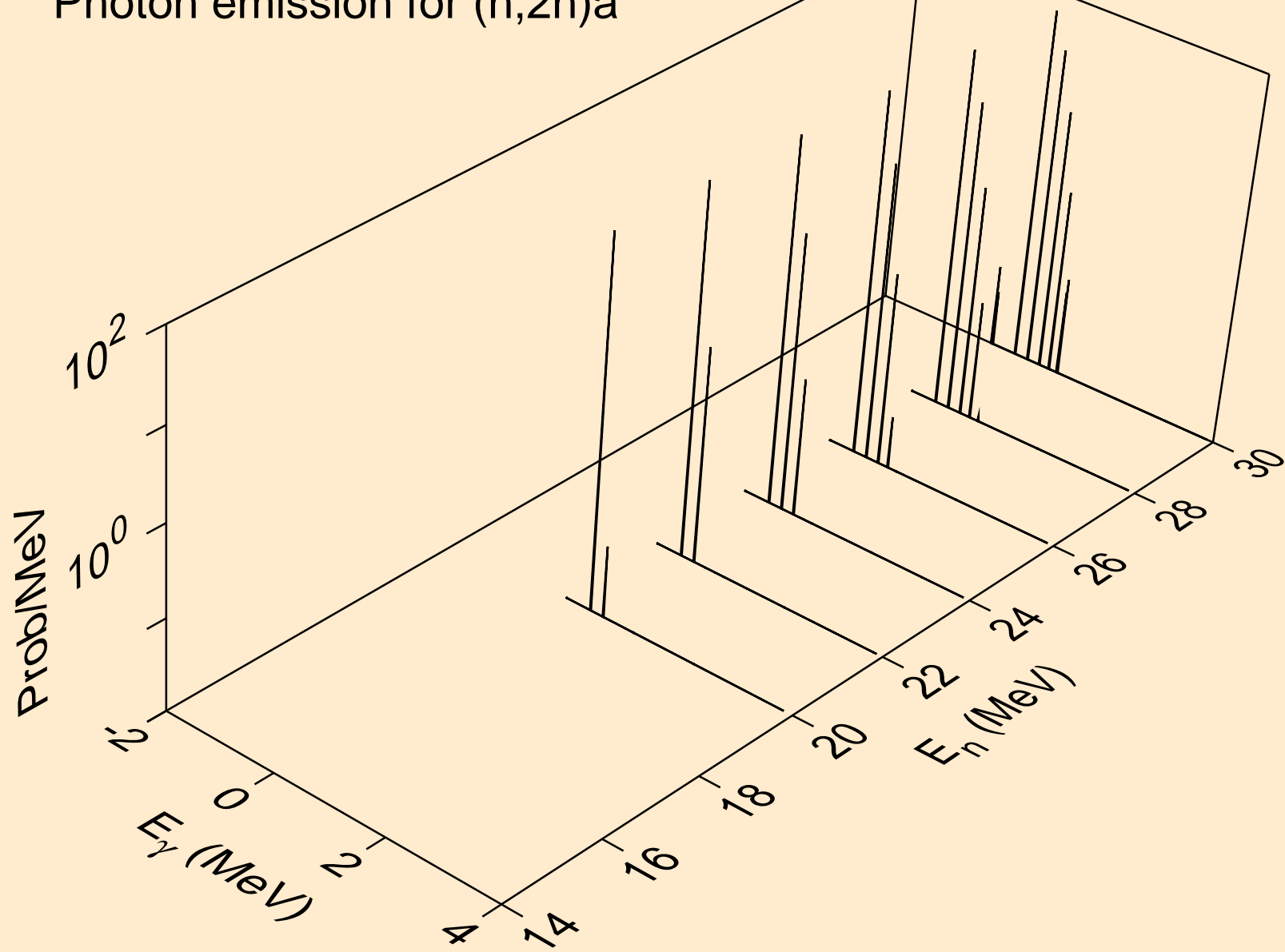
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

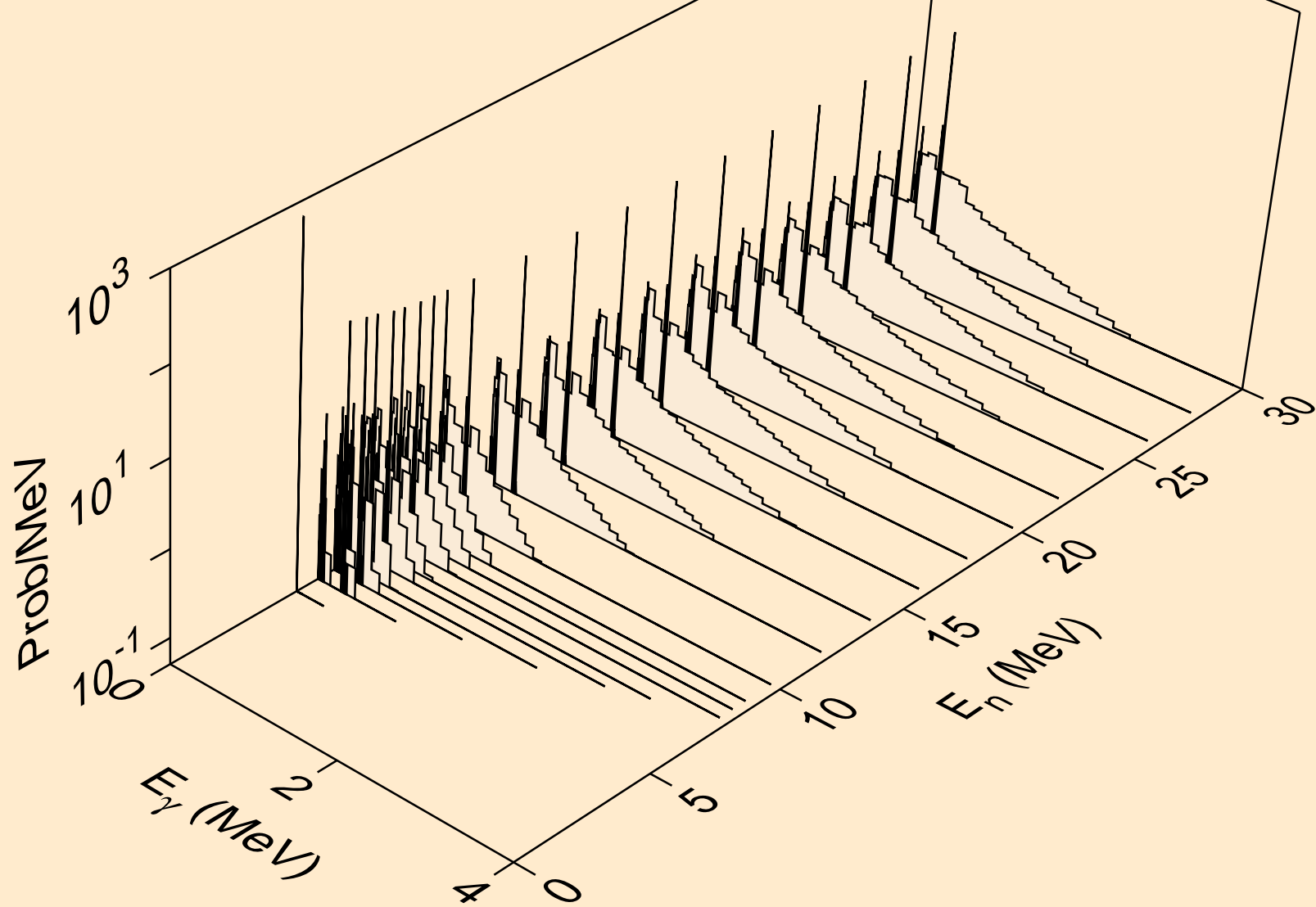


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Photon emission for (n,2n)a

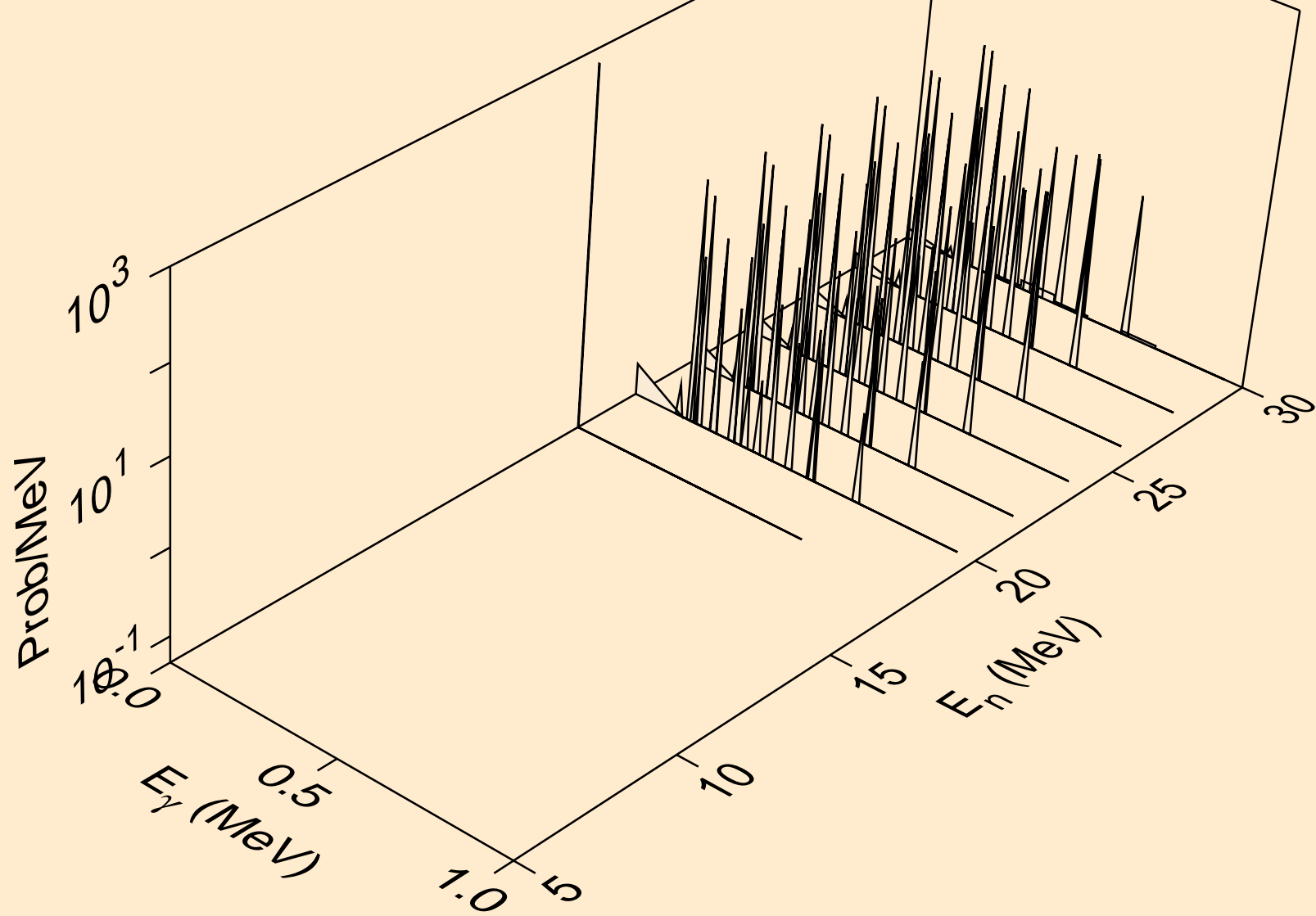




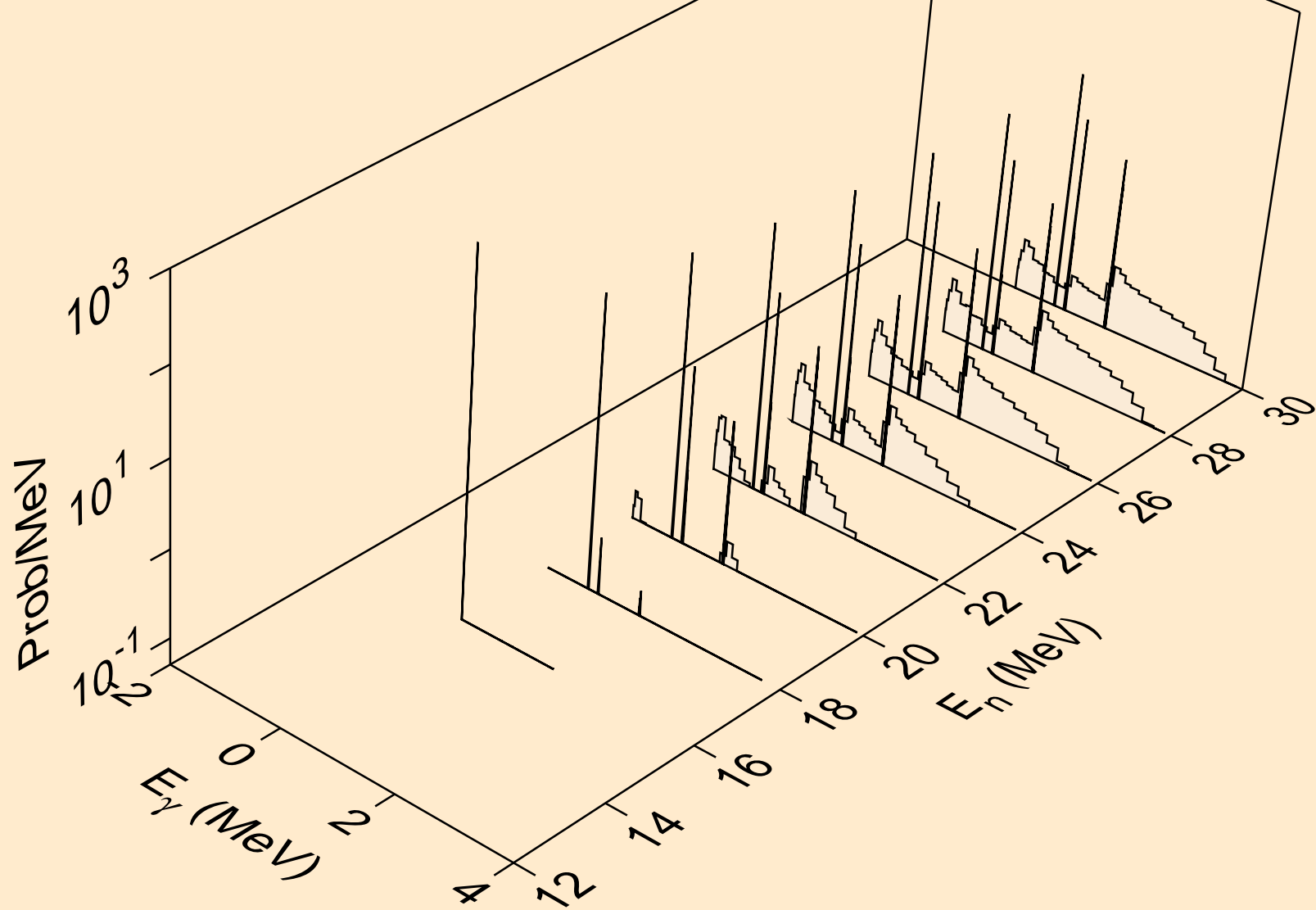
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Photon emission for (n,n\*)p



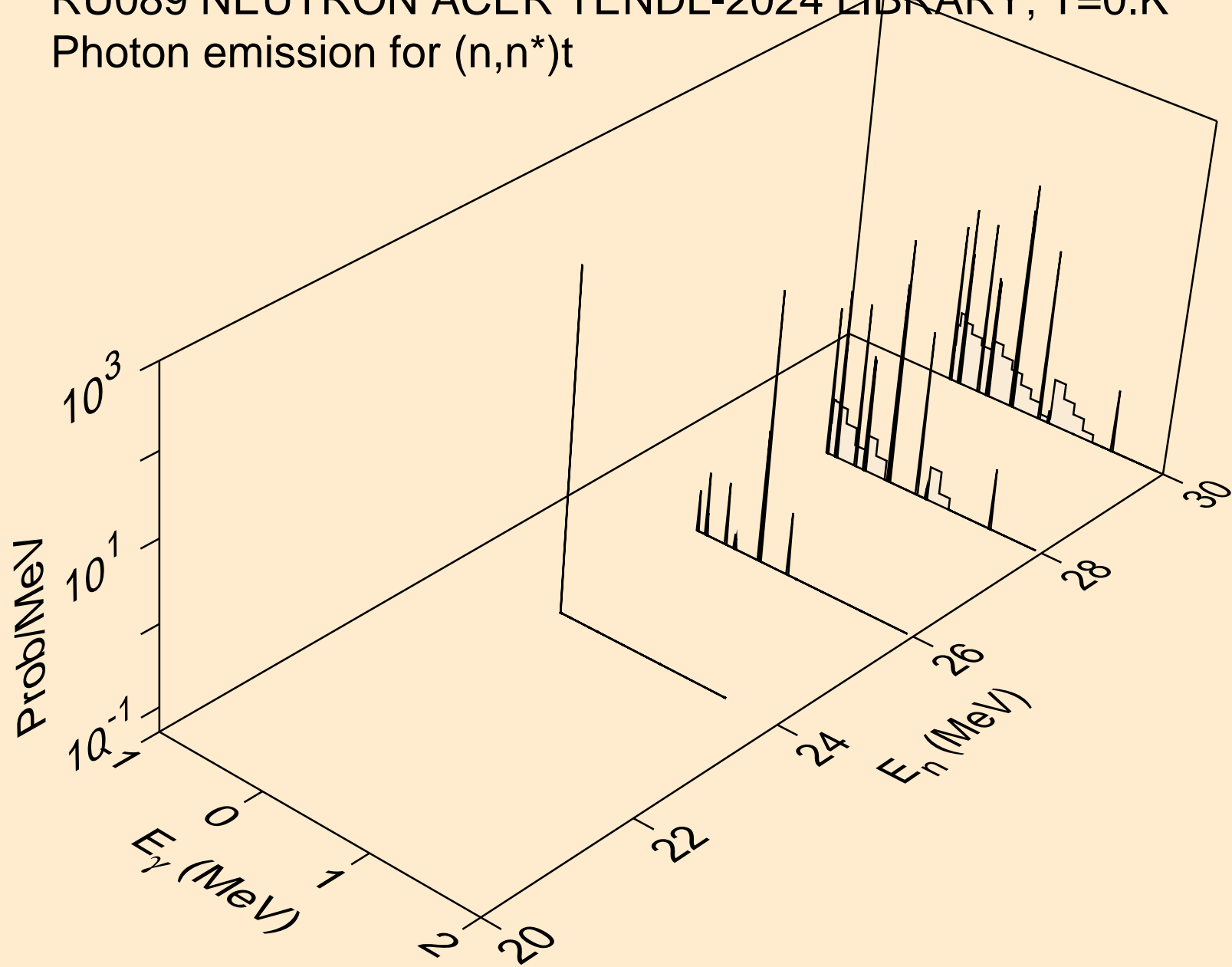
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Photon emission for (n,n\*)2a



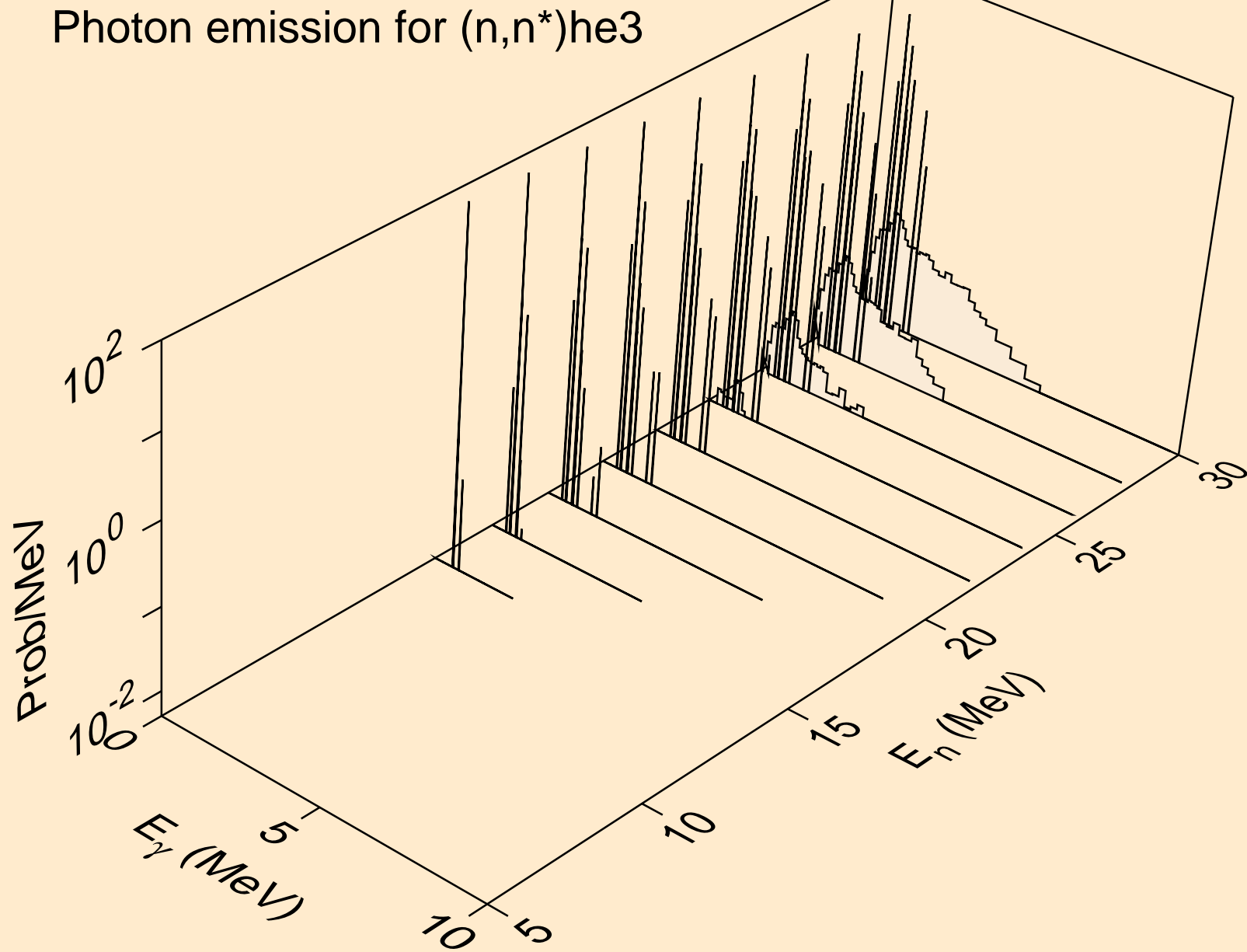
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Photon emission for (n,n\*)d



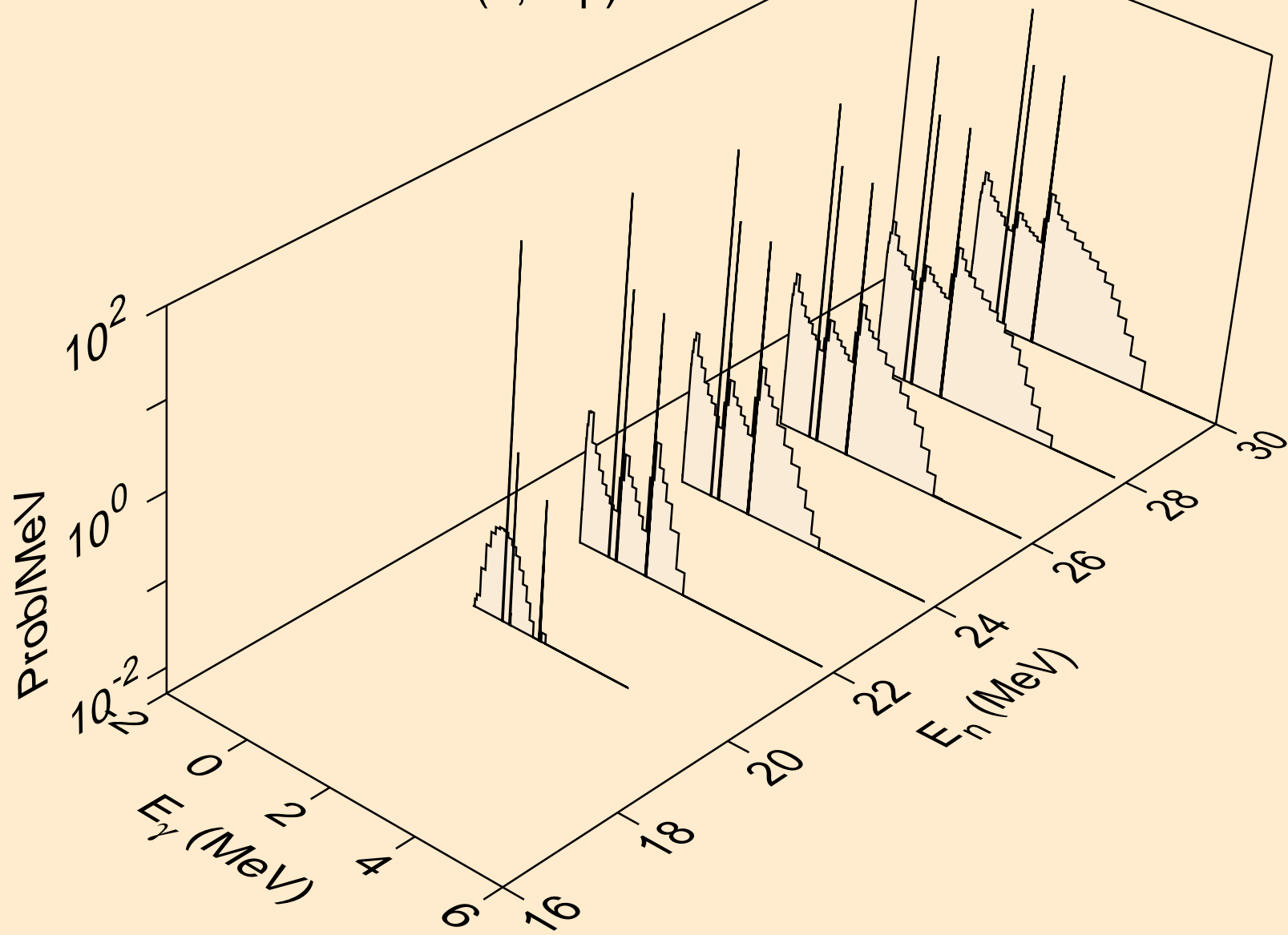
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Photon emission for (n,n\*)t



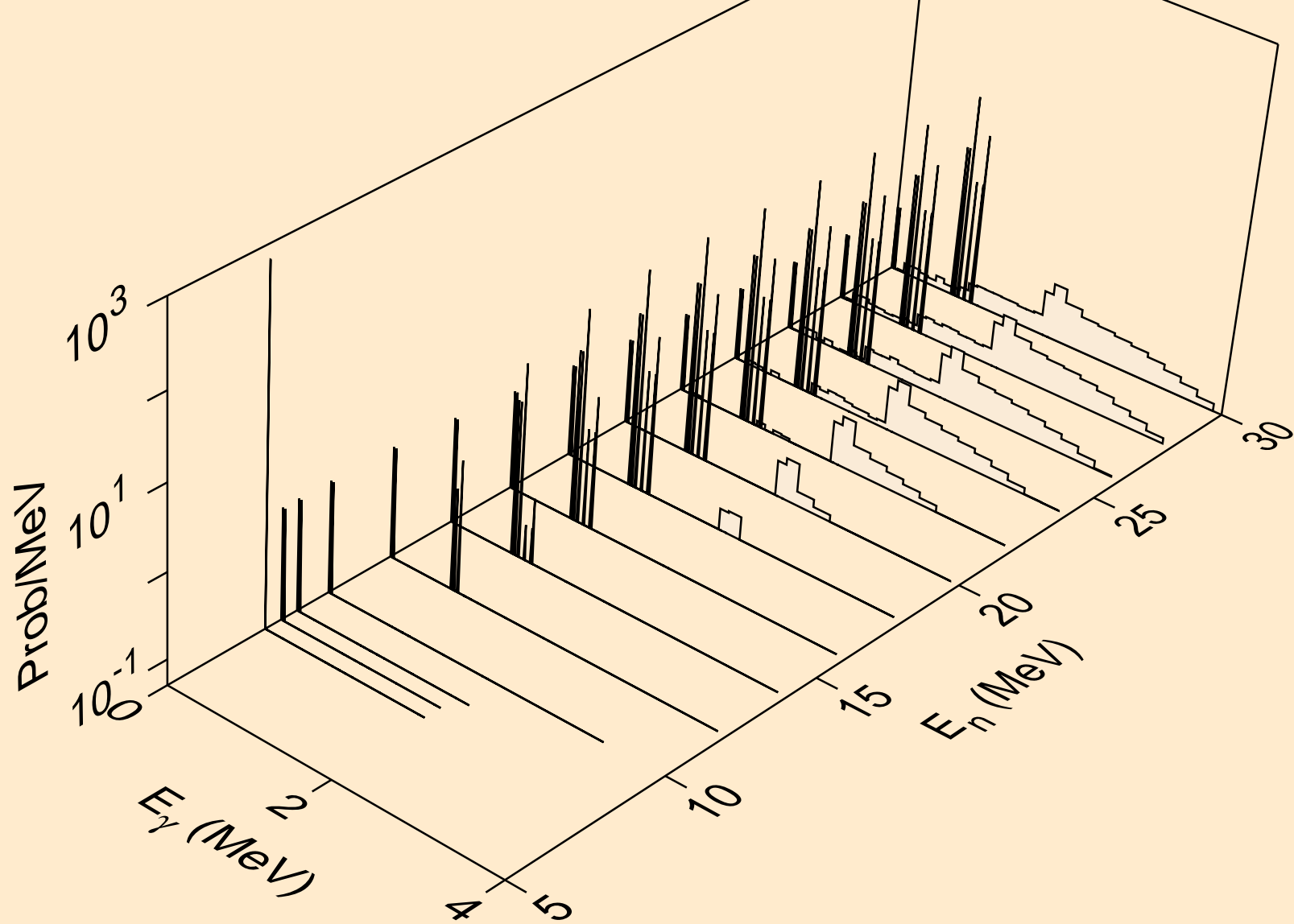
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Photon emission for (n,n\*)he3



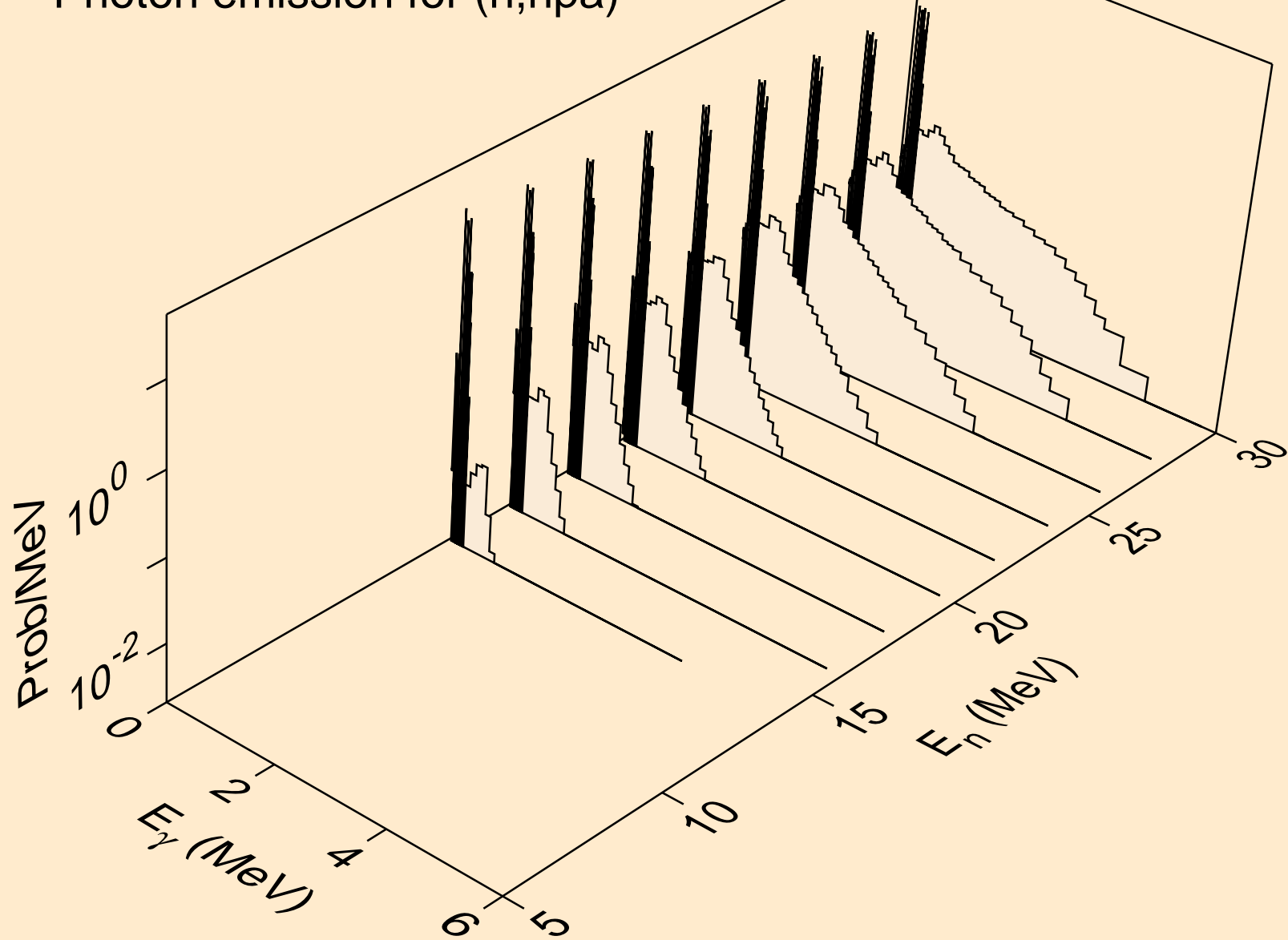
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n2p)

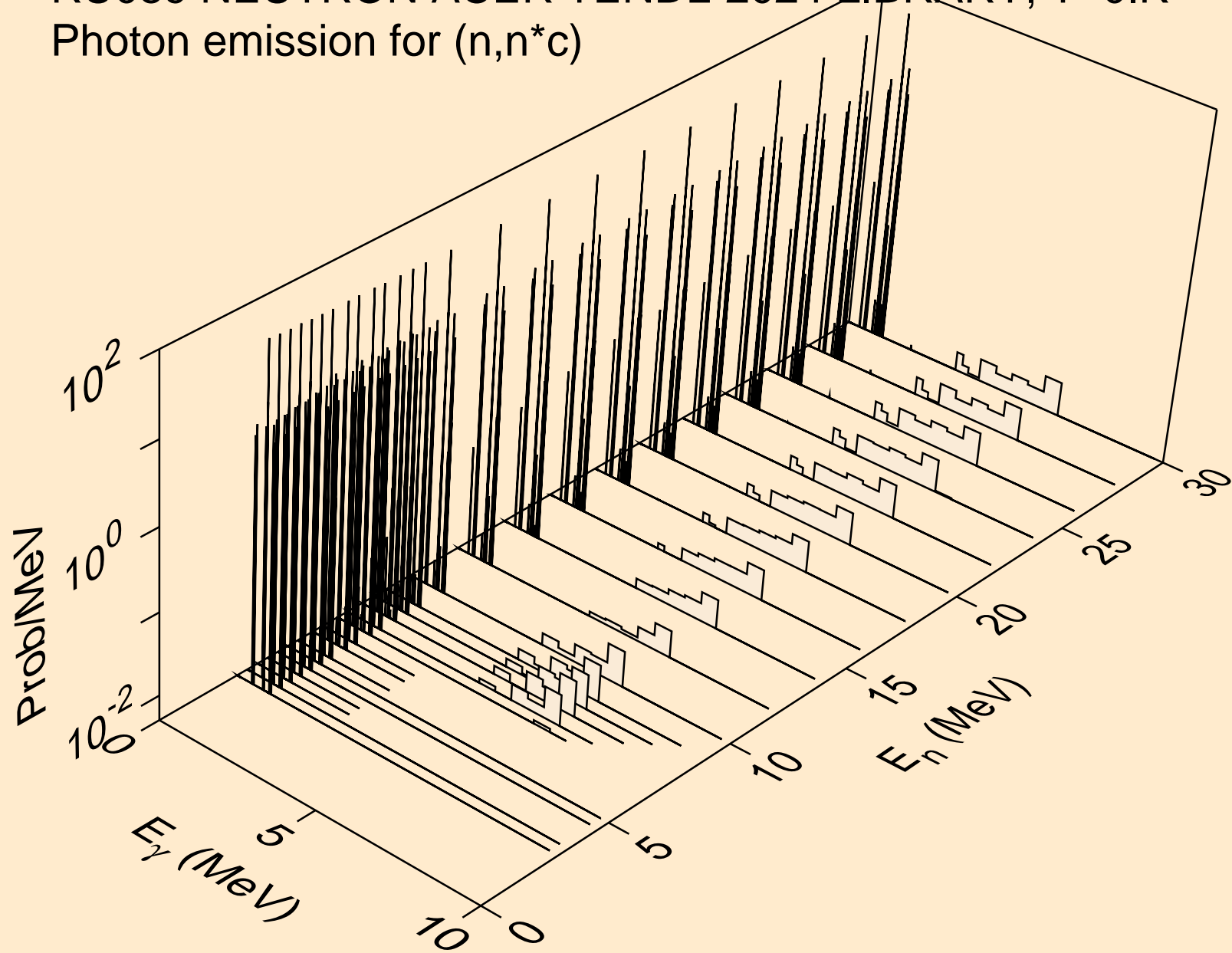


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Photon emission for (n,npa)

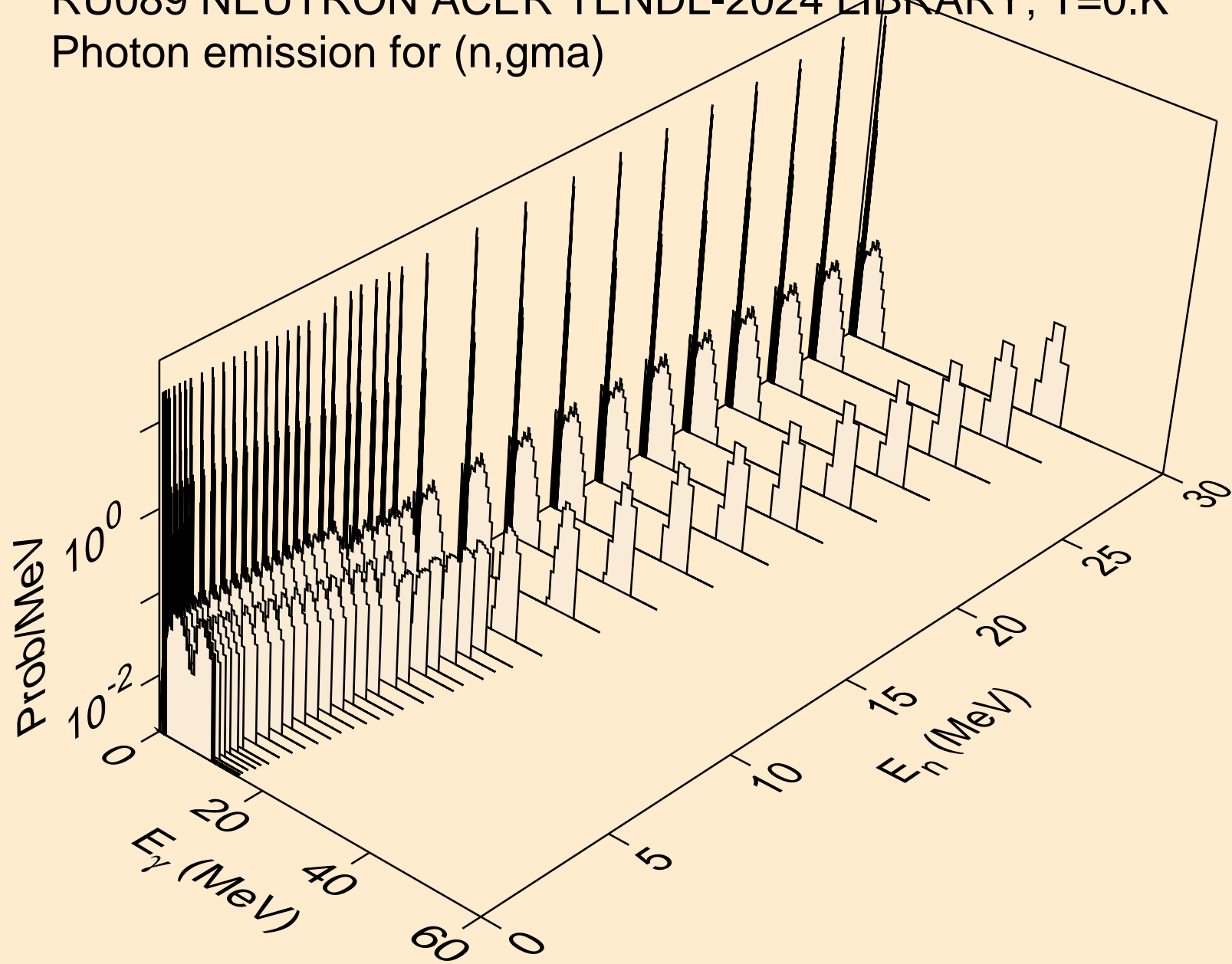




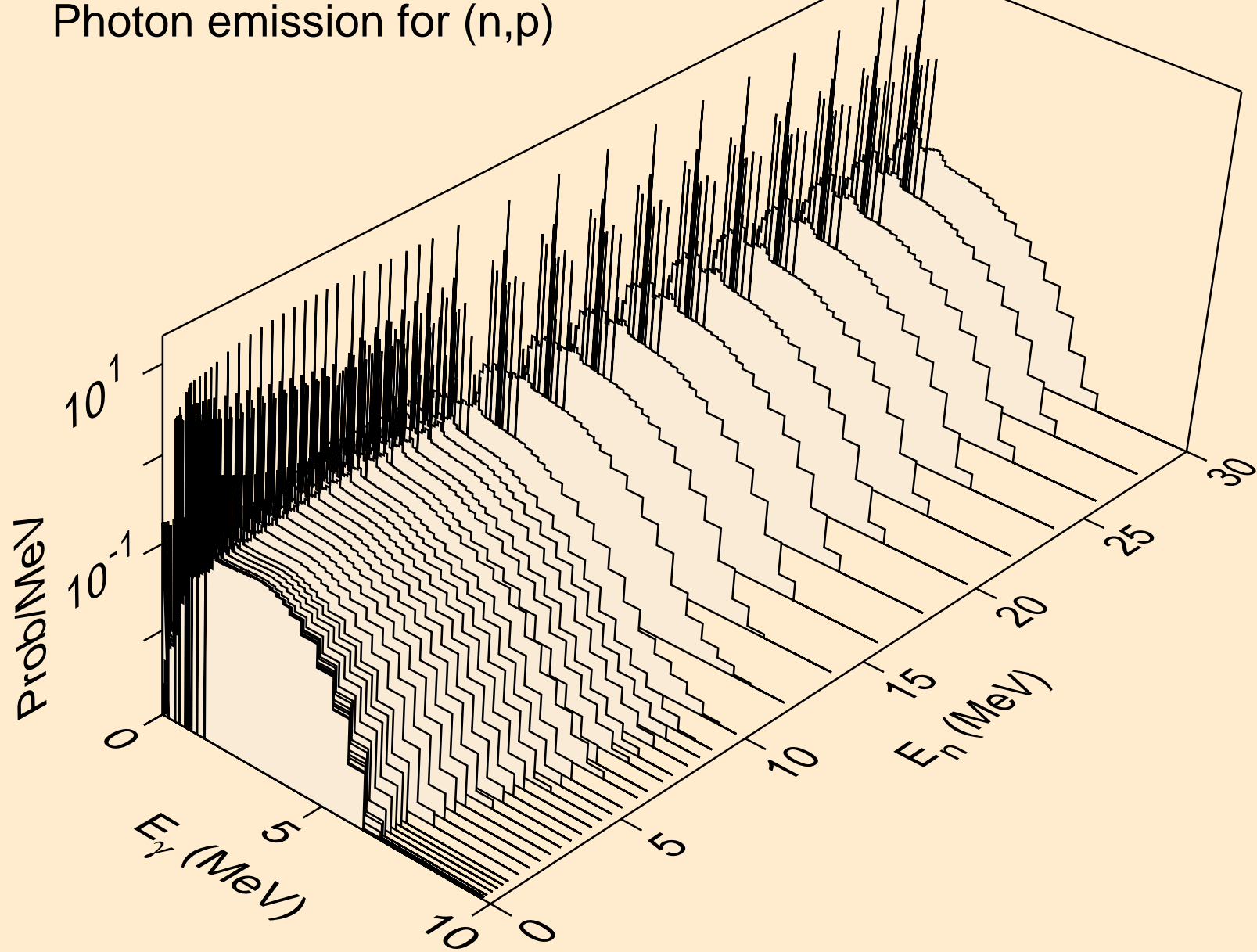
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Photon emission for (n,n\*c)



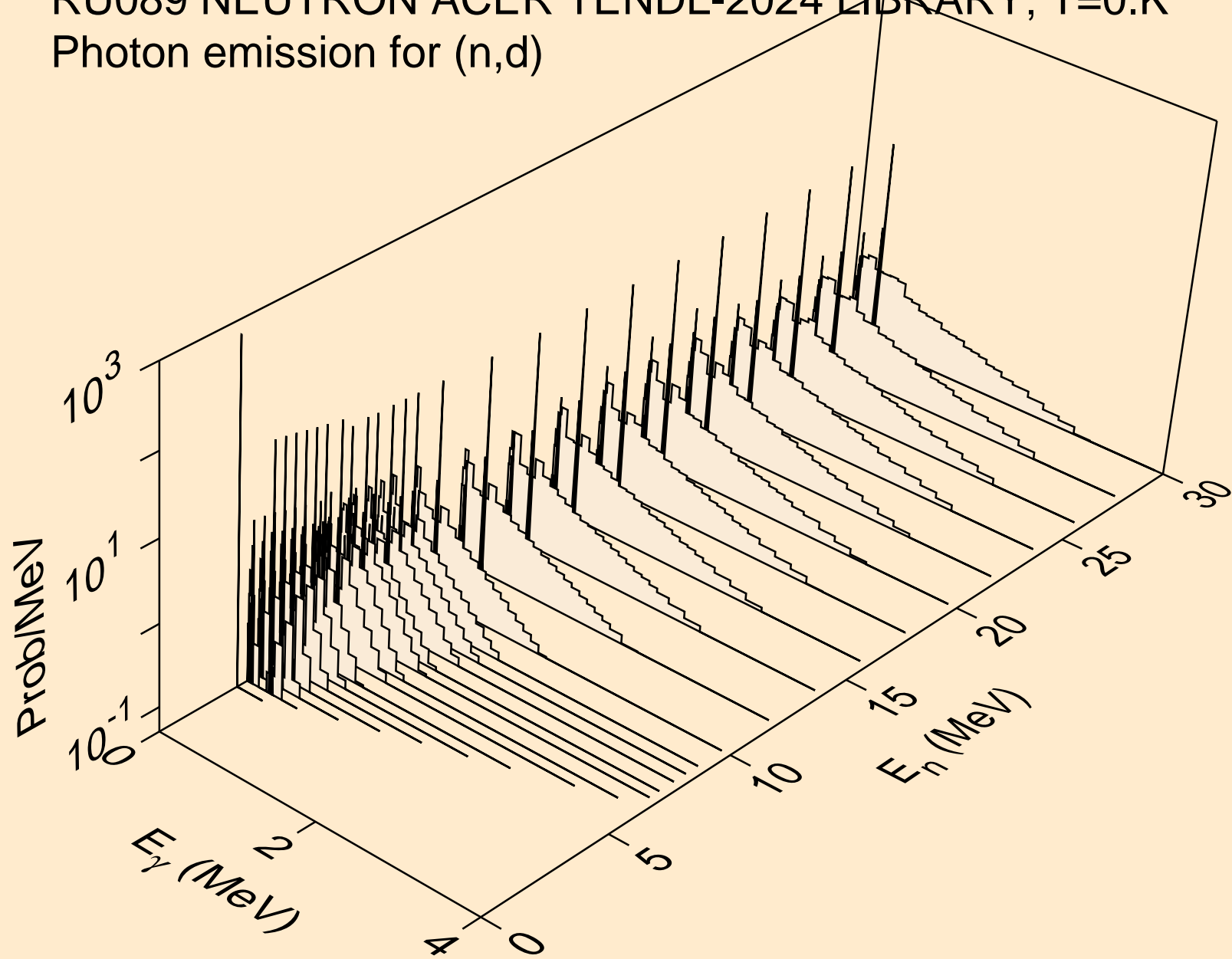
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Photon emission for (n,gma)



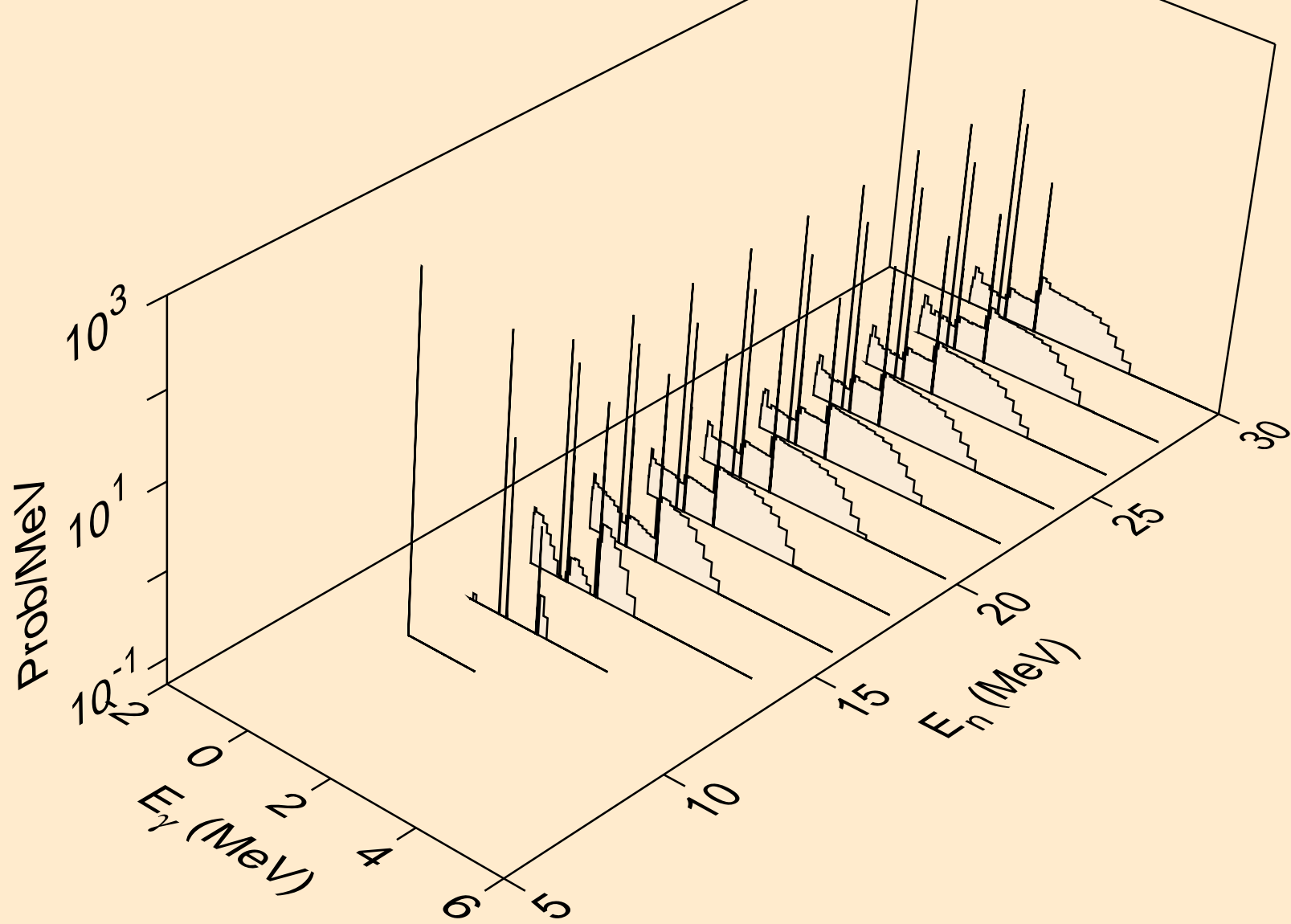
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Photon emission for (n,p)



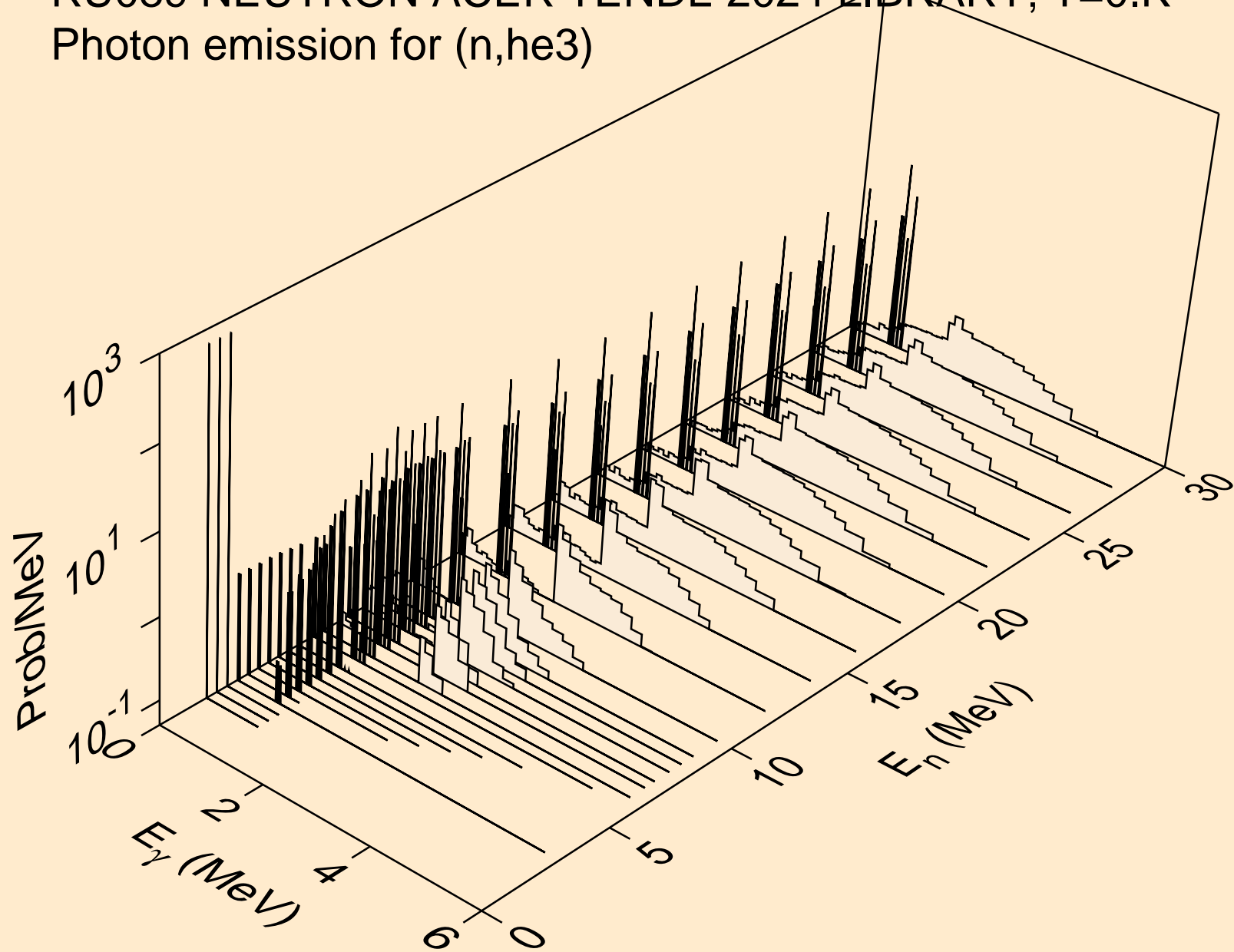
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Photon emission for (n,d)



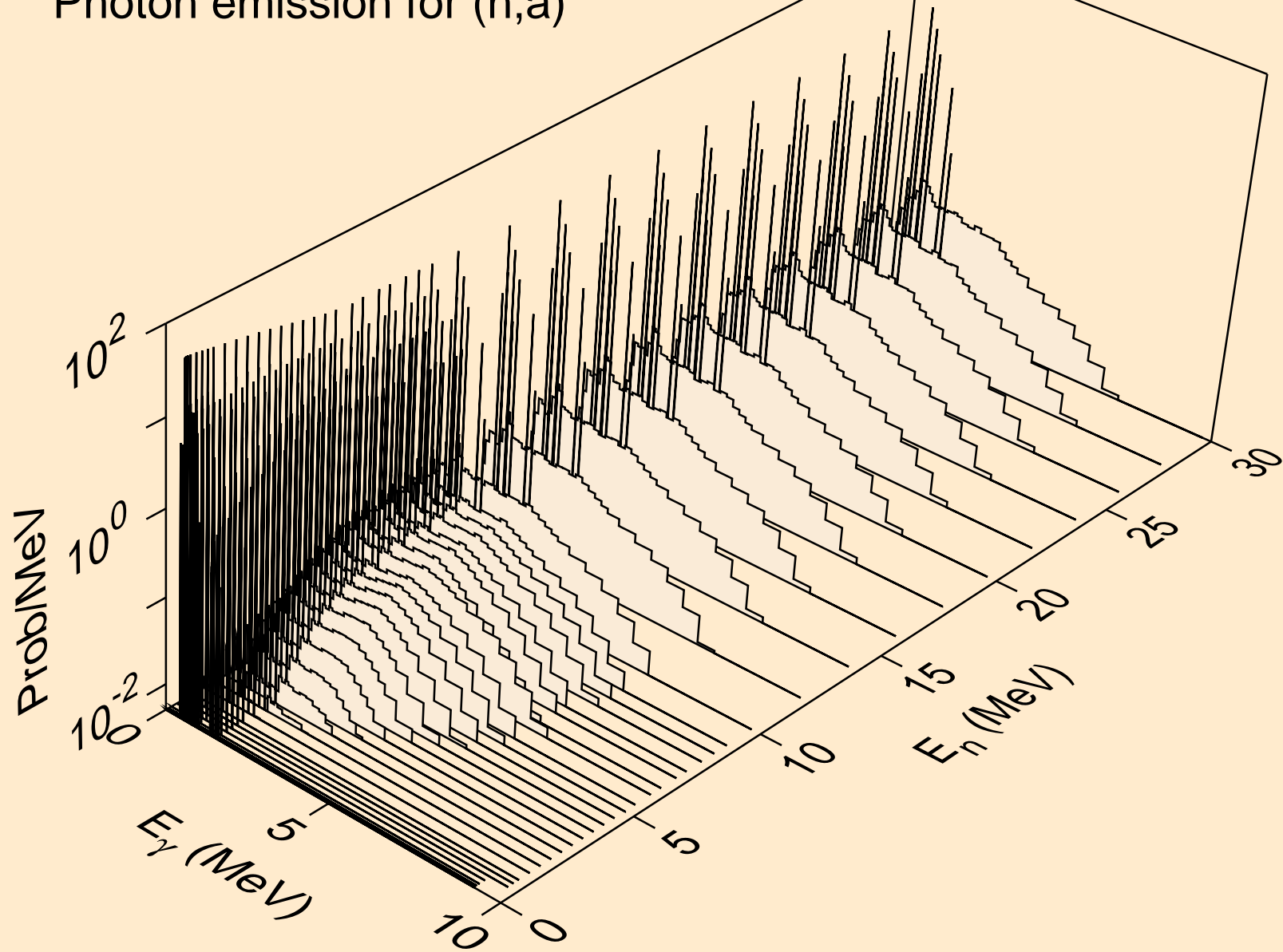
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Photon emission for (n,t)



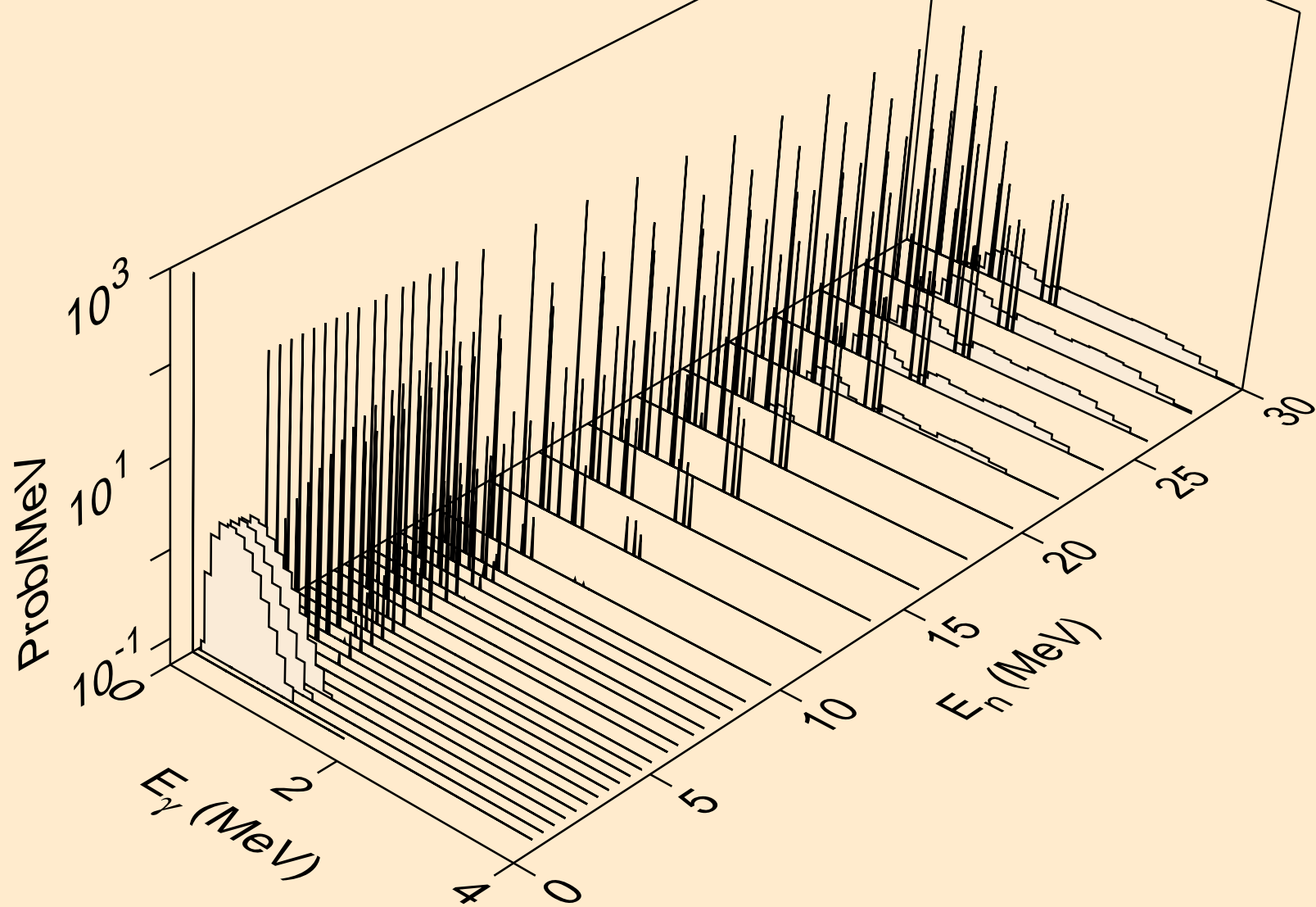
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,he3)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,a)

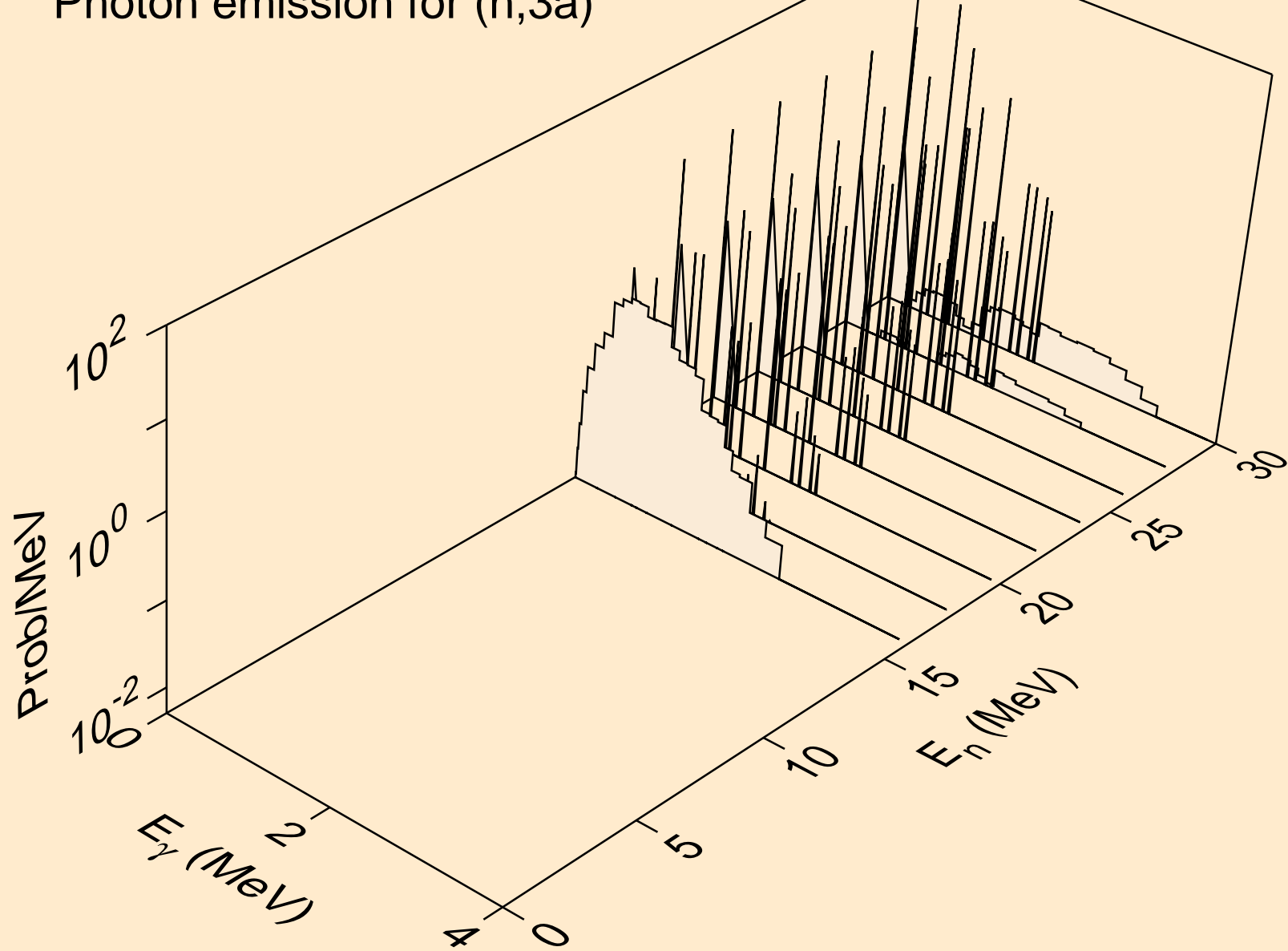


RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2a)

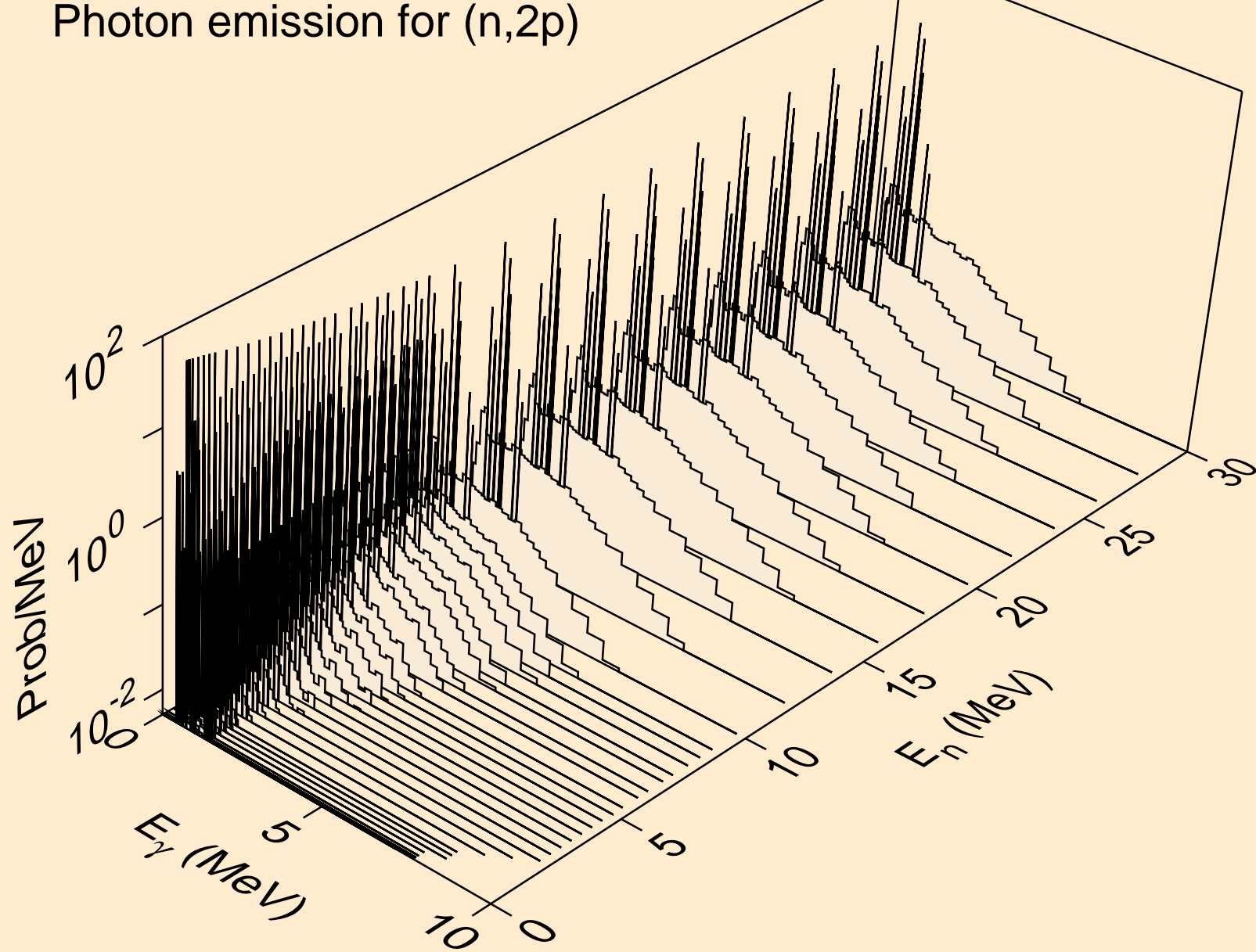




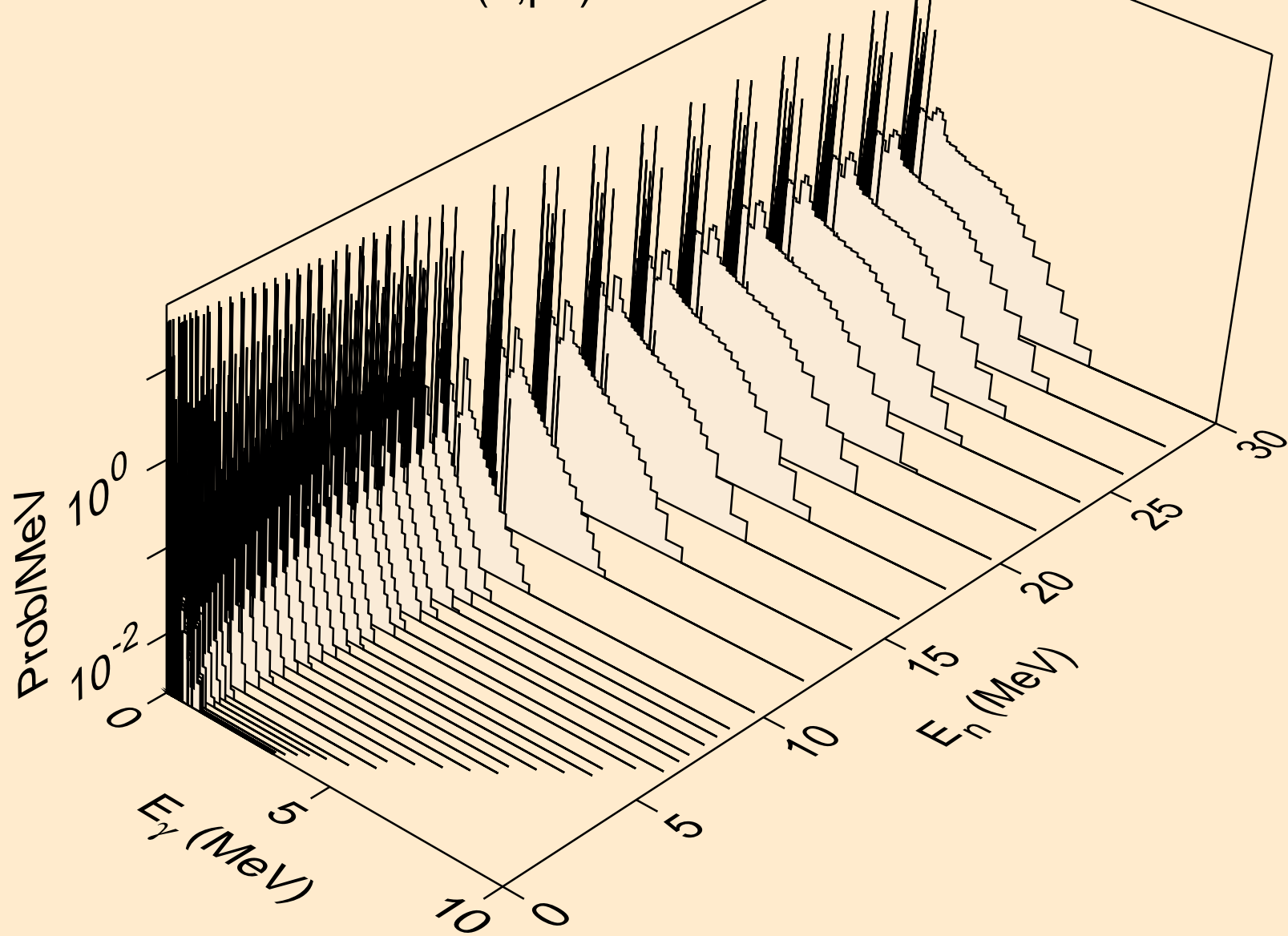
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Photon emission for (n,3a)



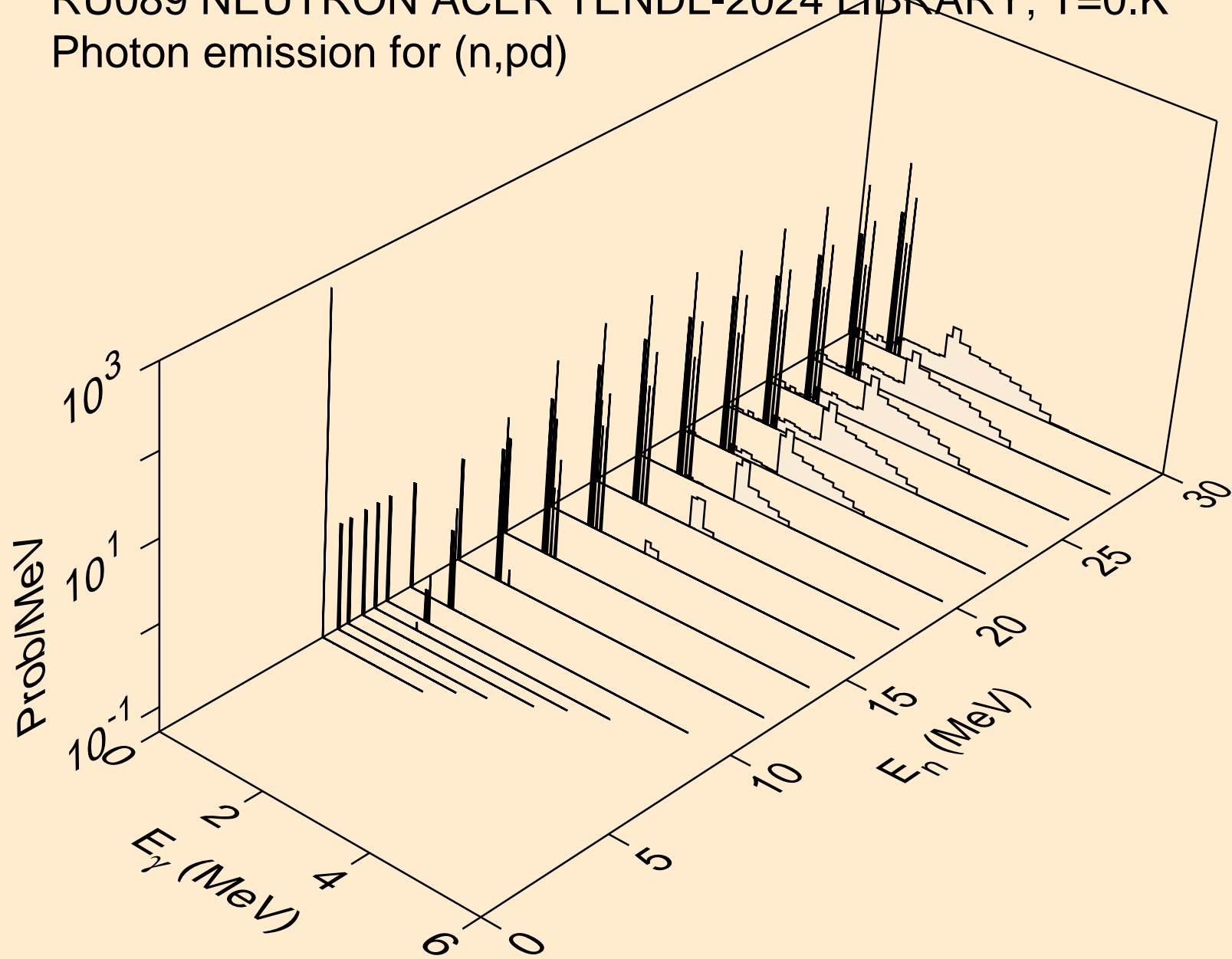
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Photon emission for (n,2p)



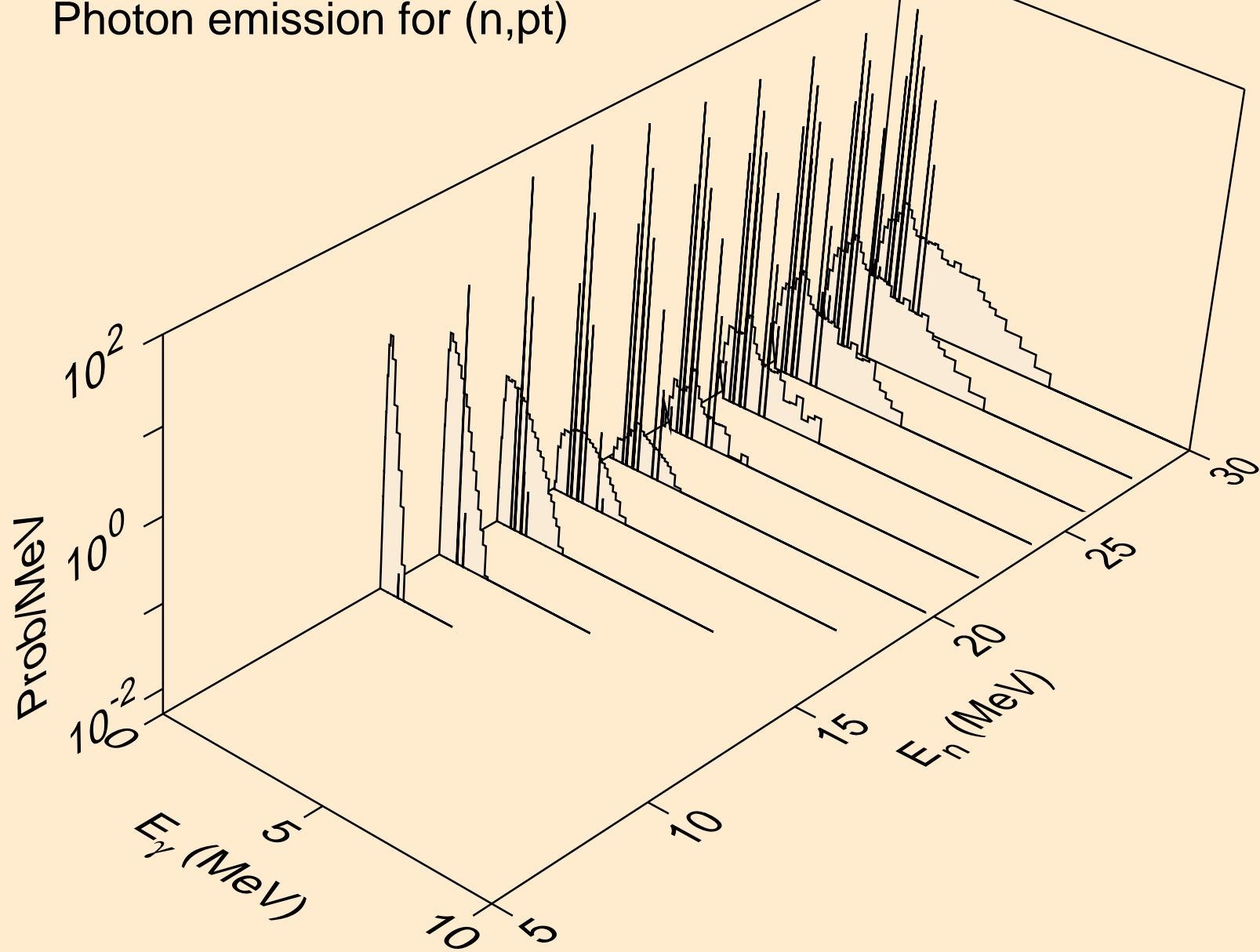
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



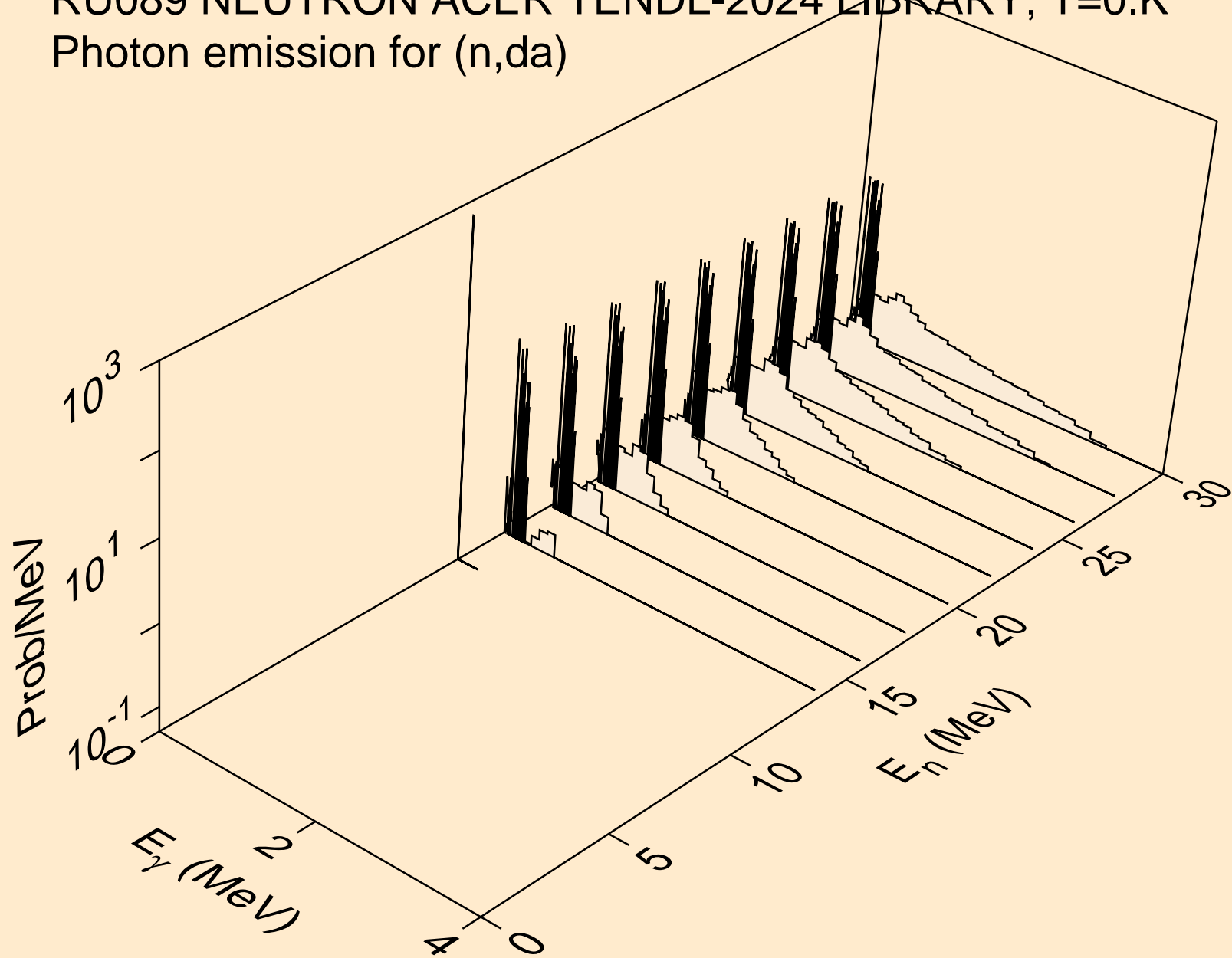
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)

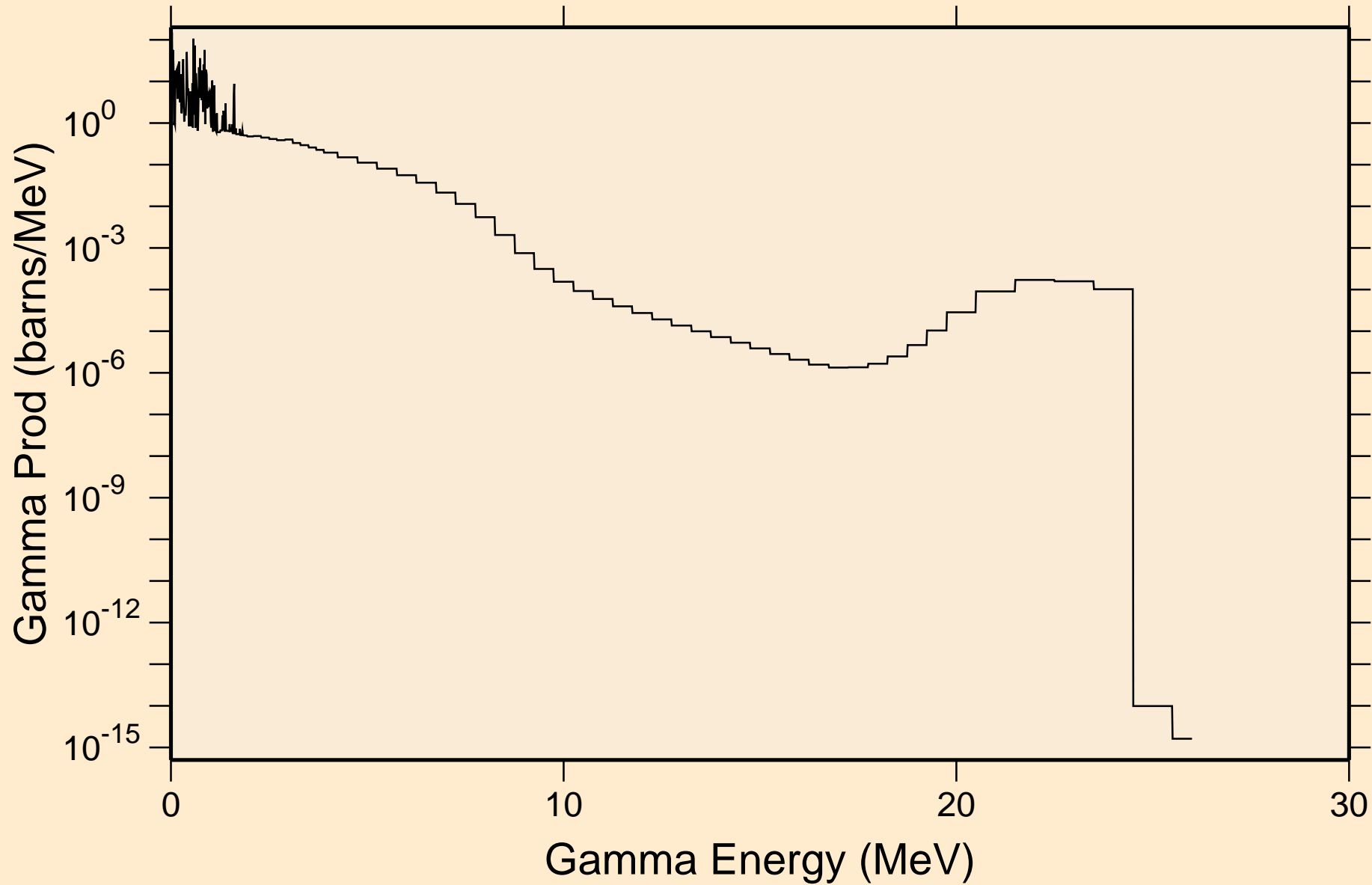


RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)





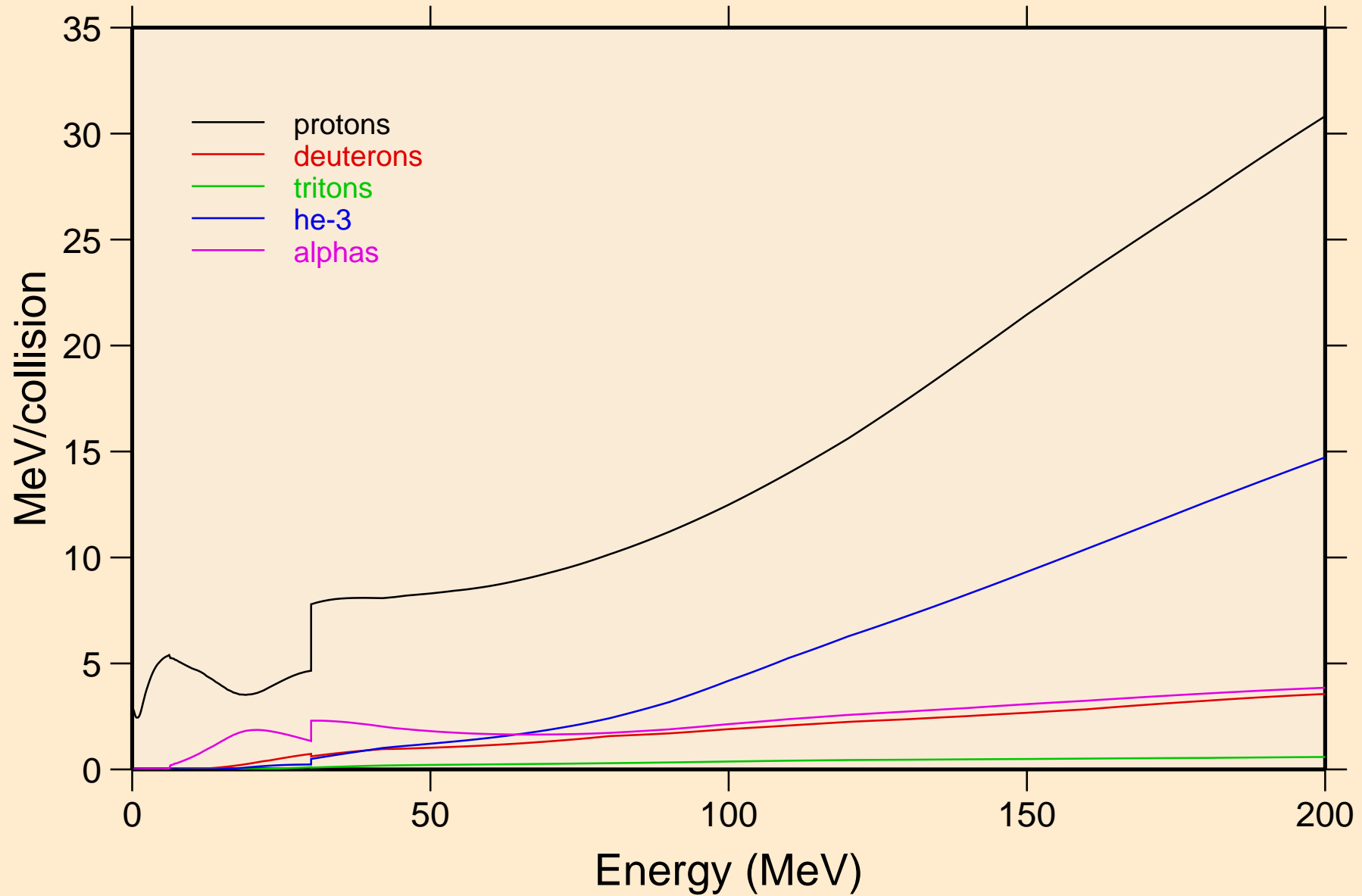
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14 MeV photon spectrum



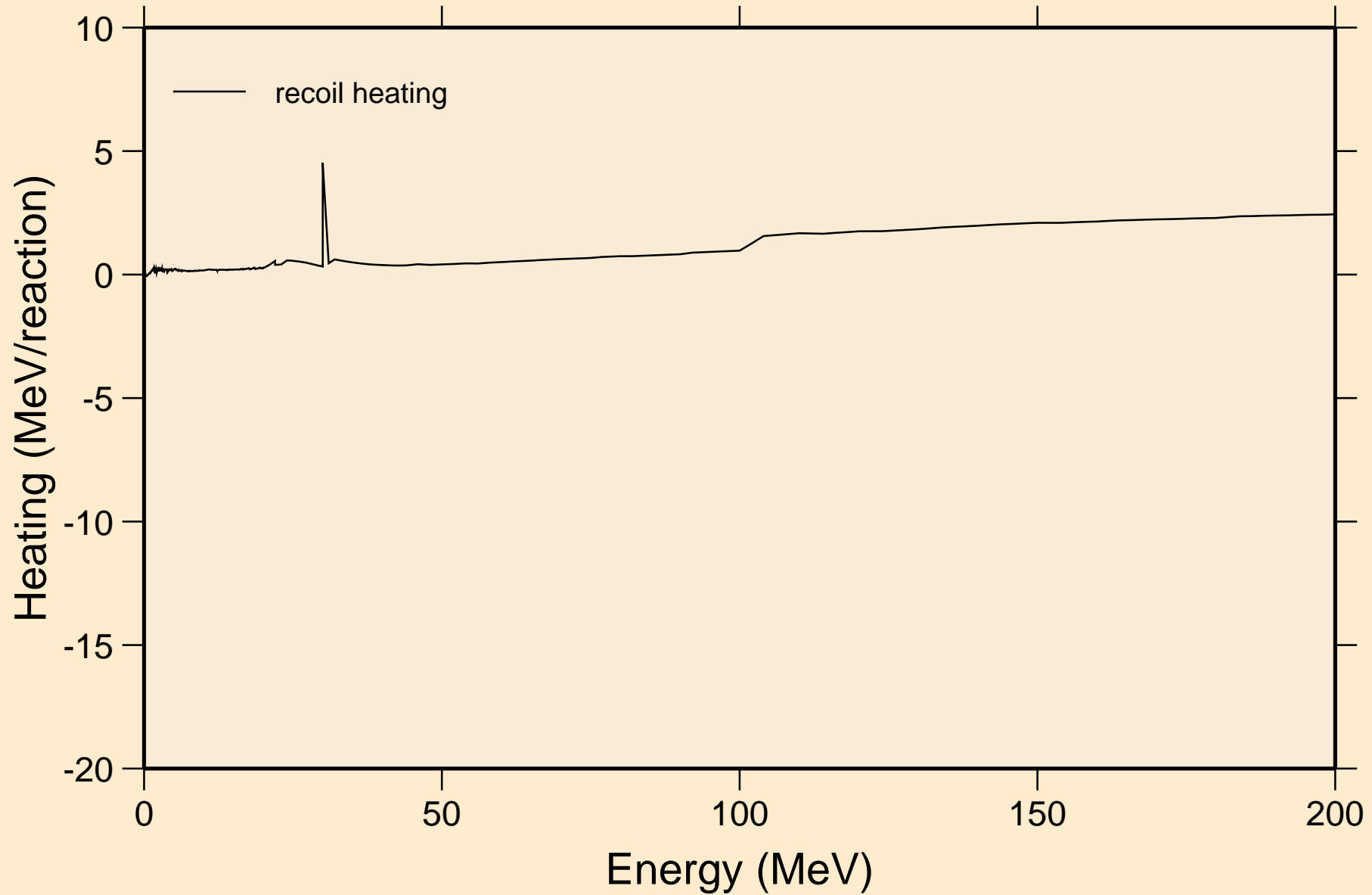


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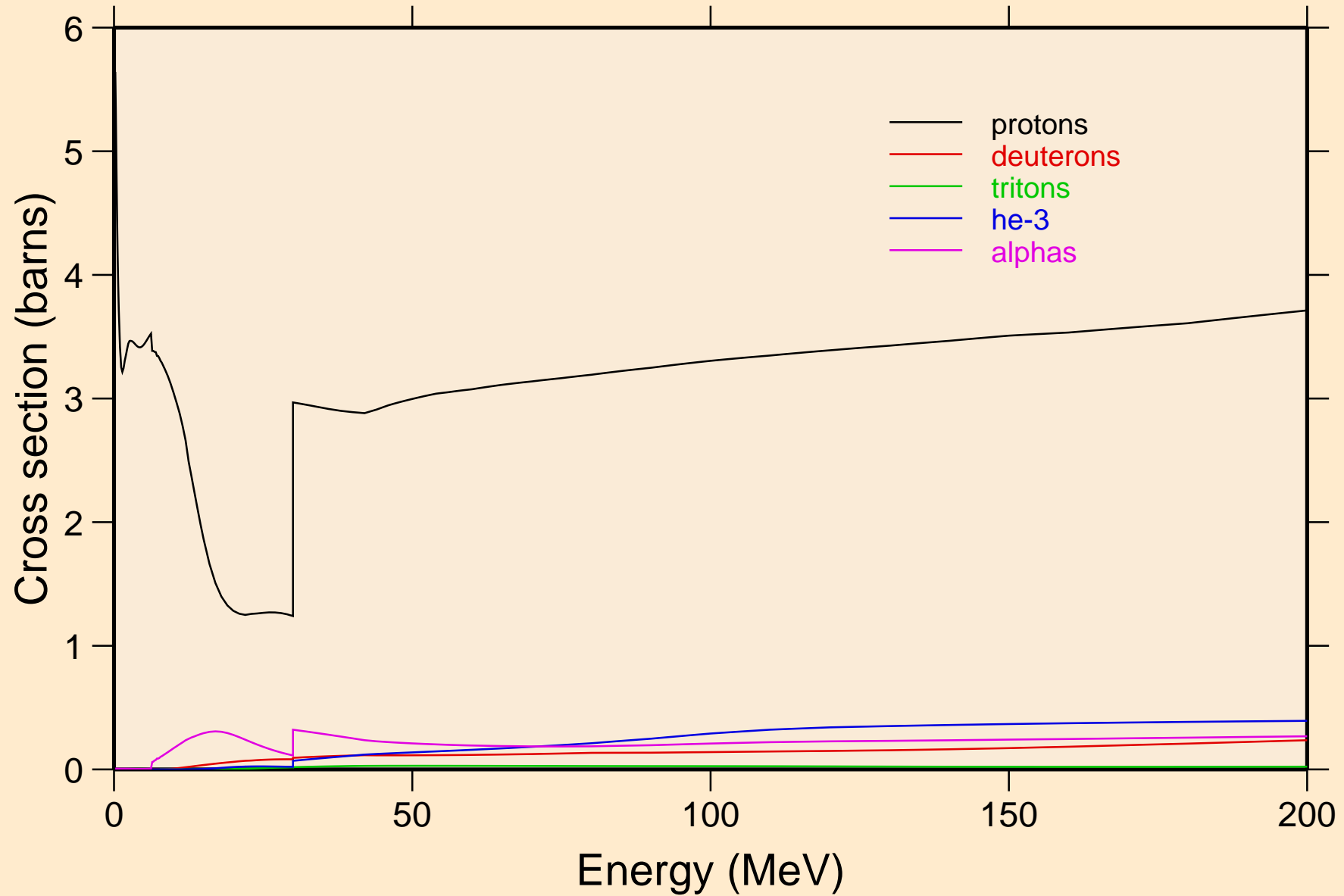
## Particle heating contributions



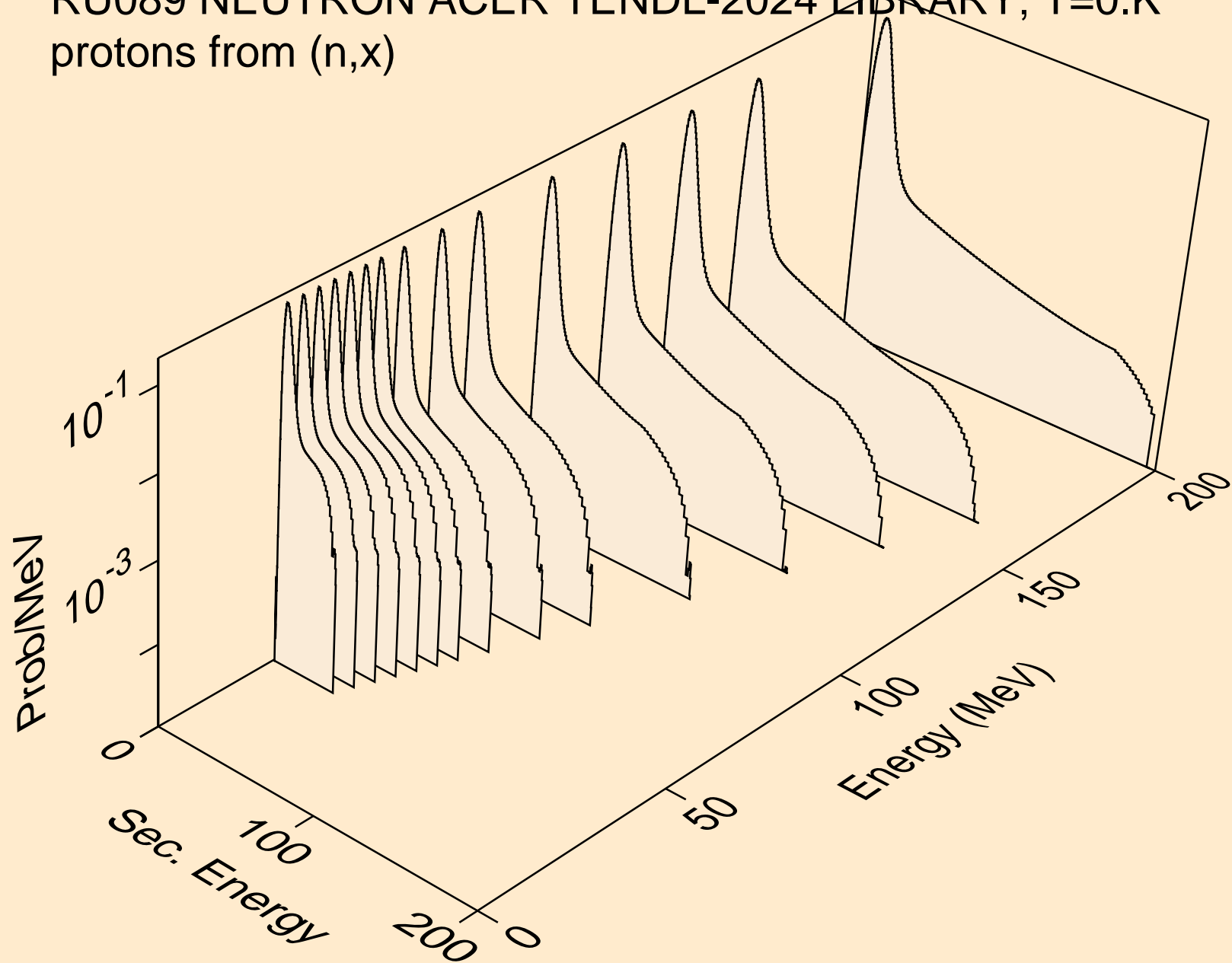
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Recoil Heating



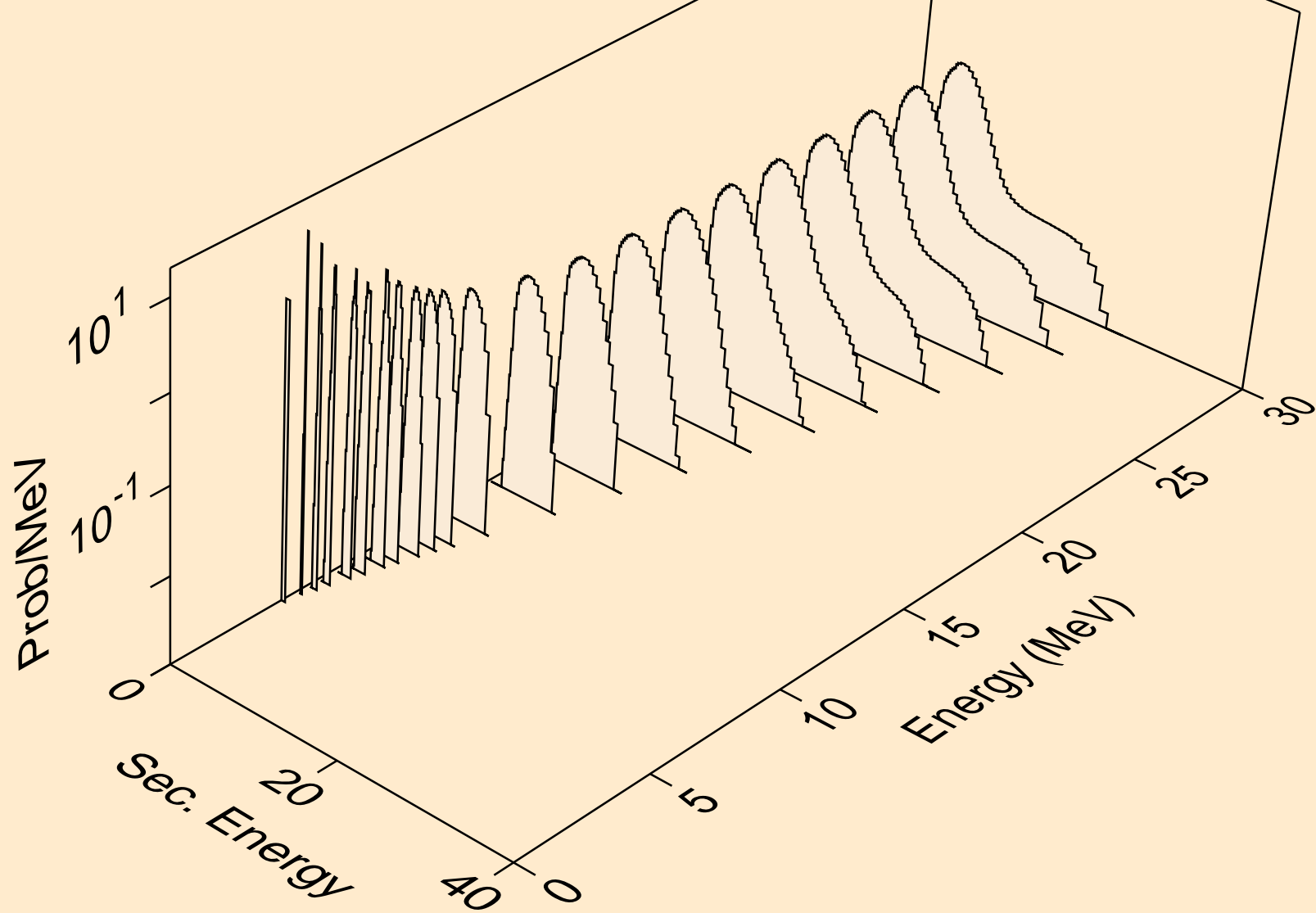
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Particle production cross sections



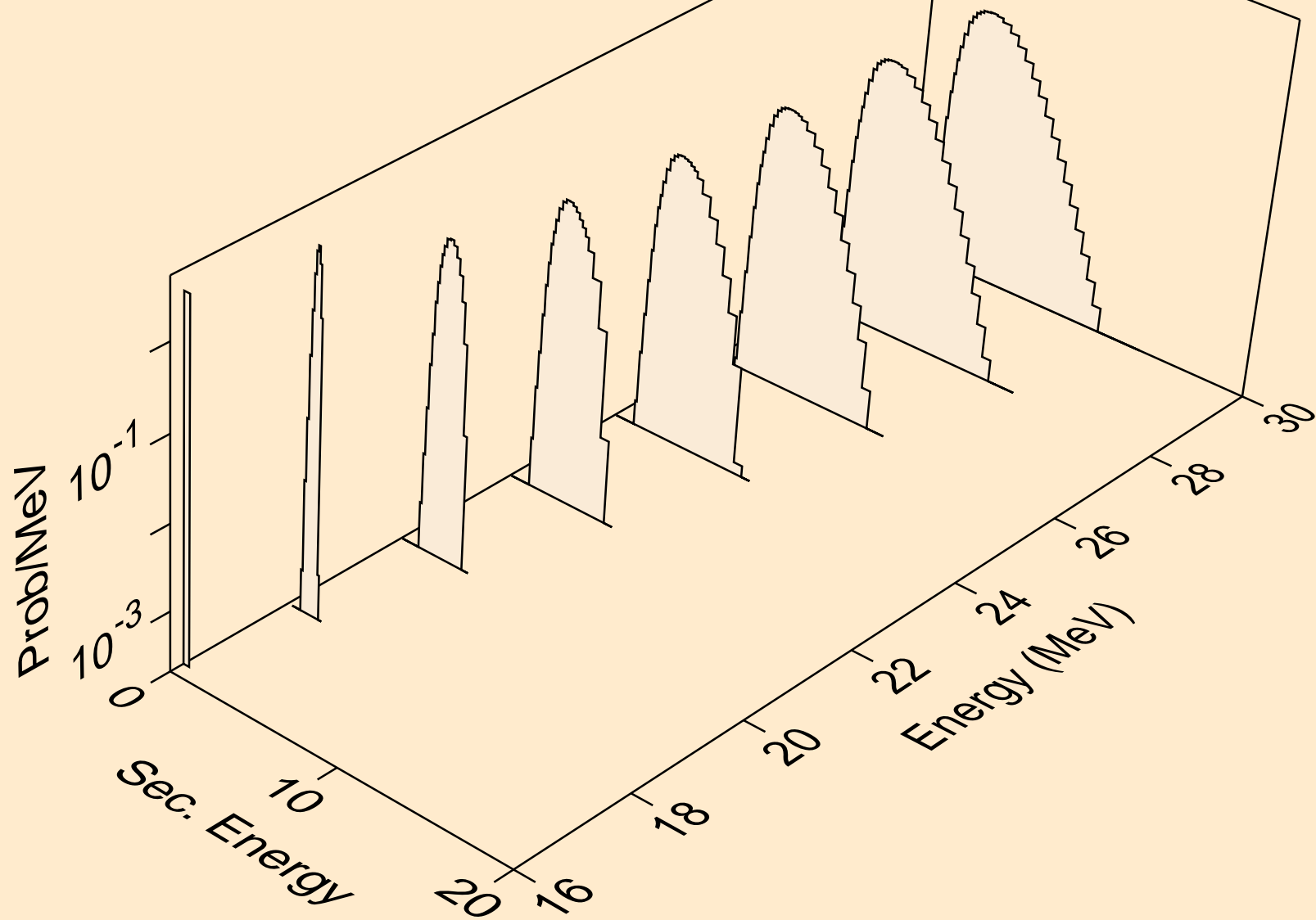
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protons from (n,x)



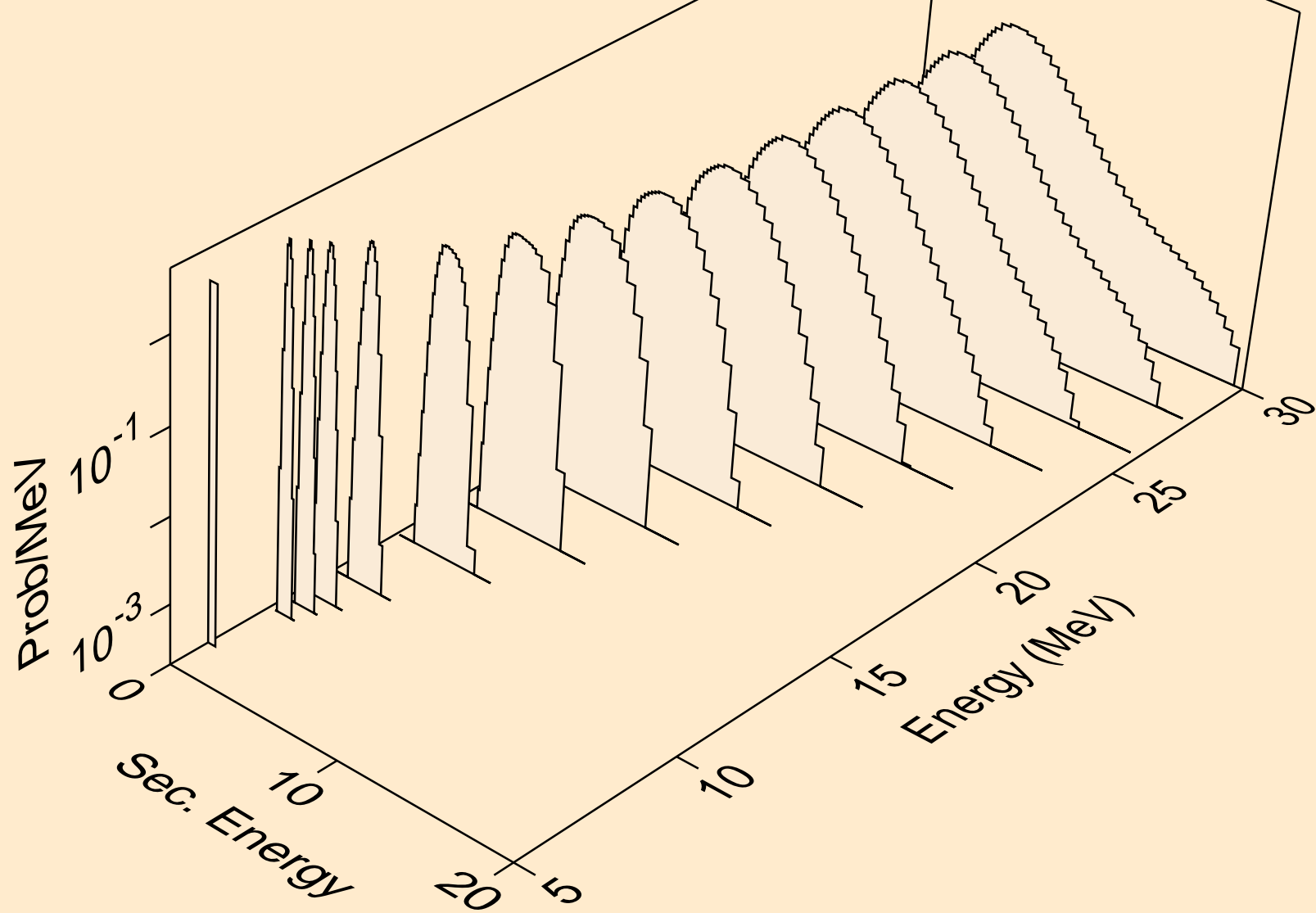
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protons from (n,n\*)p



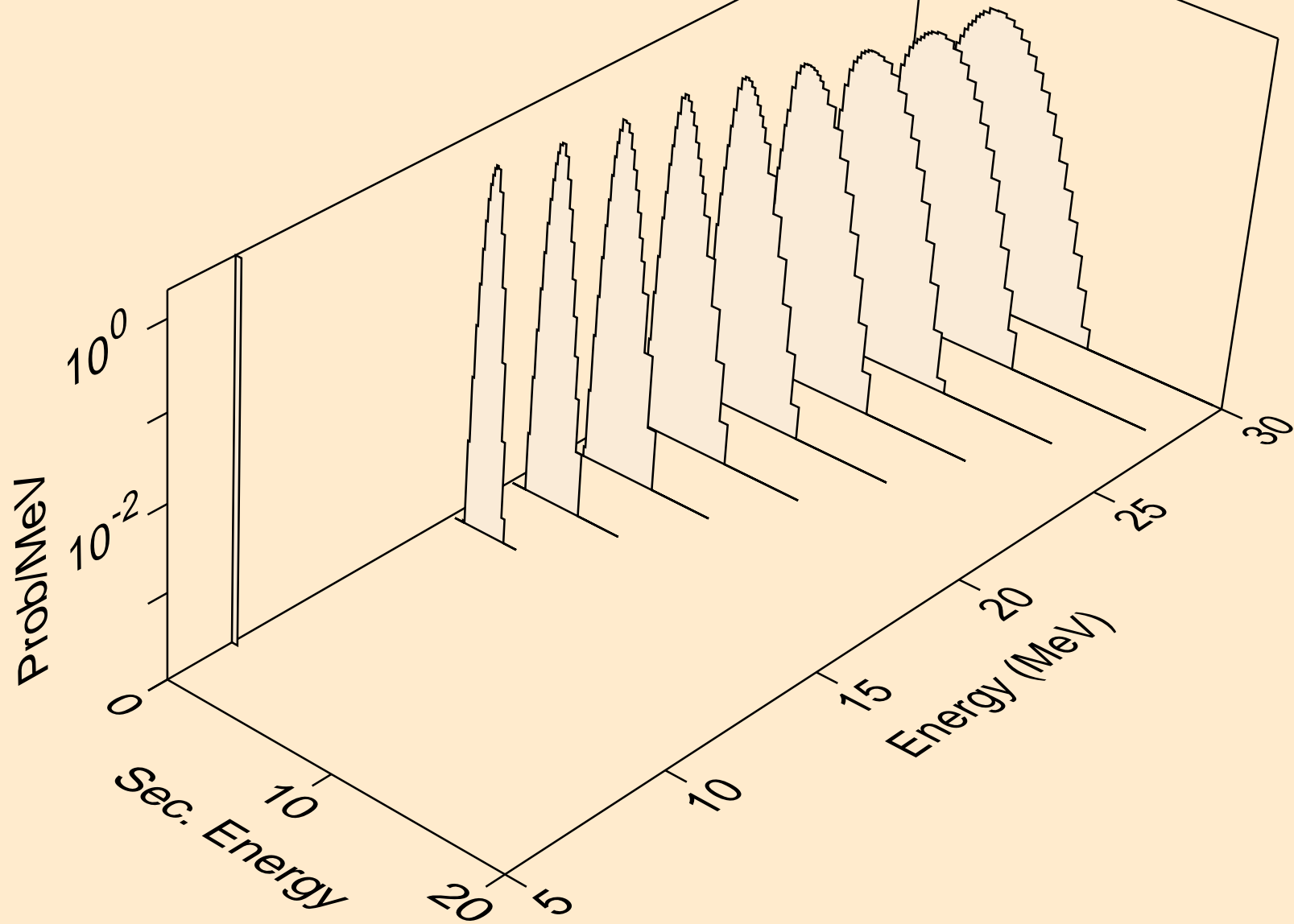
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,2np)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n2p)

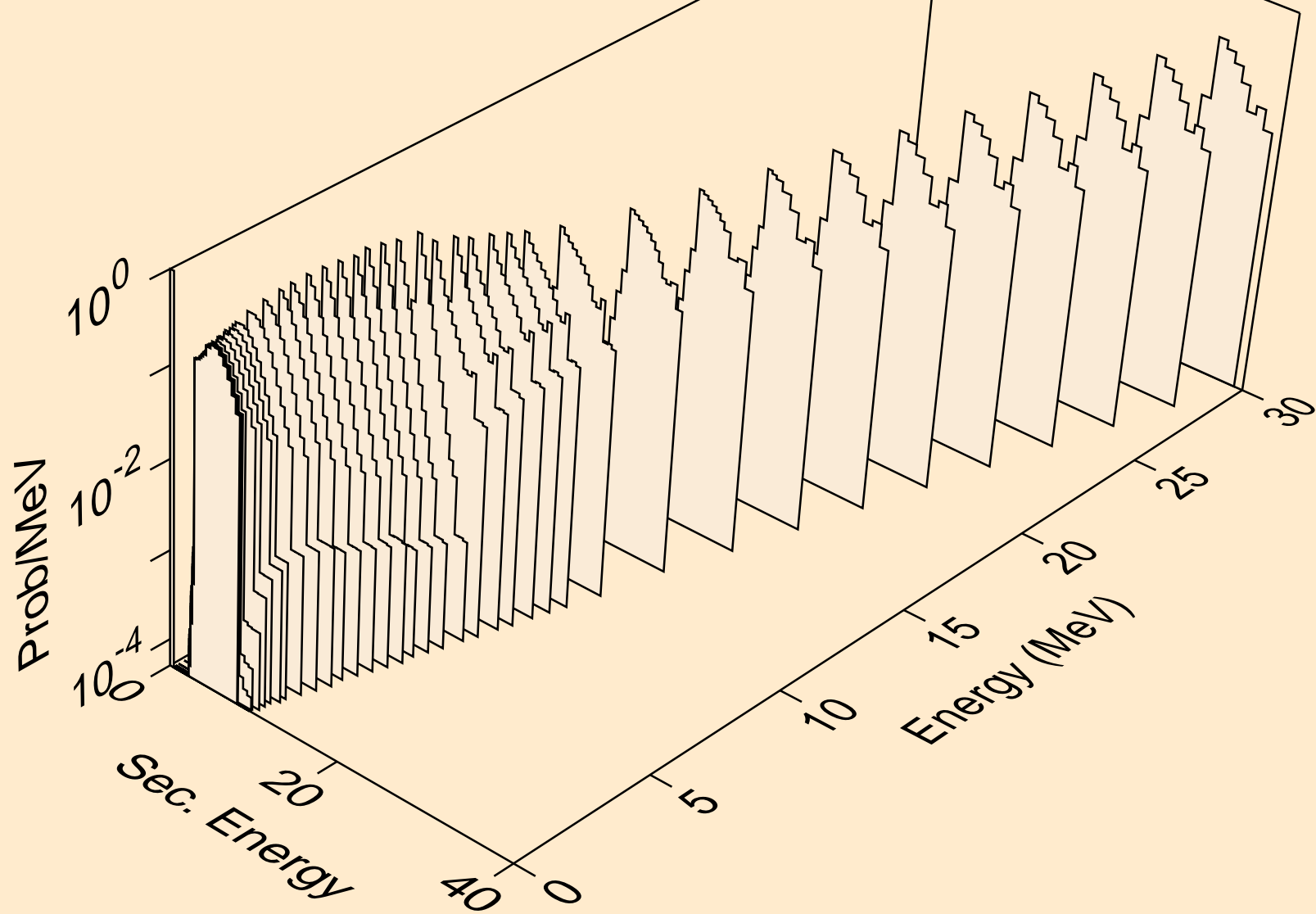


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protons from (n,npa)

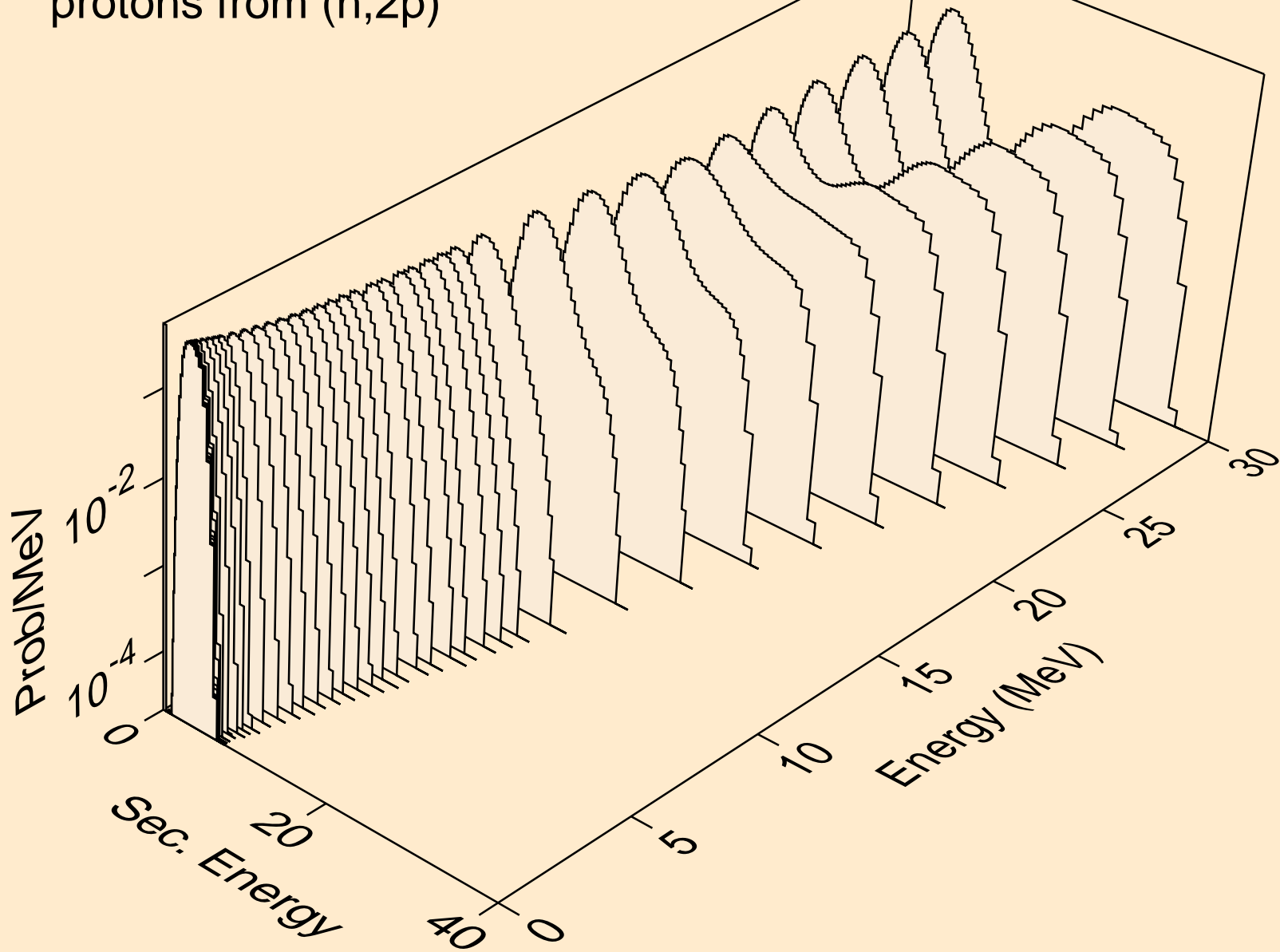




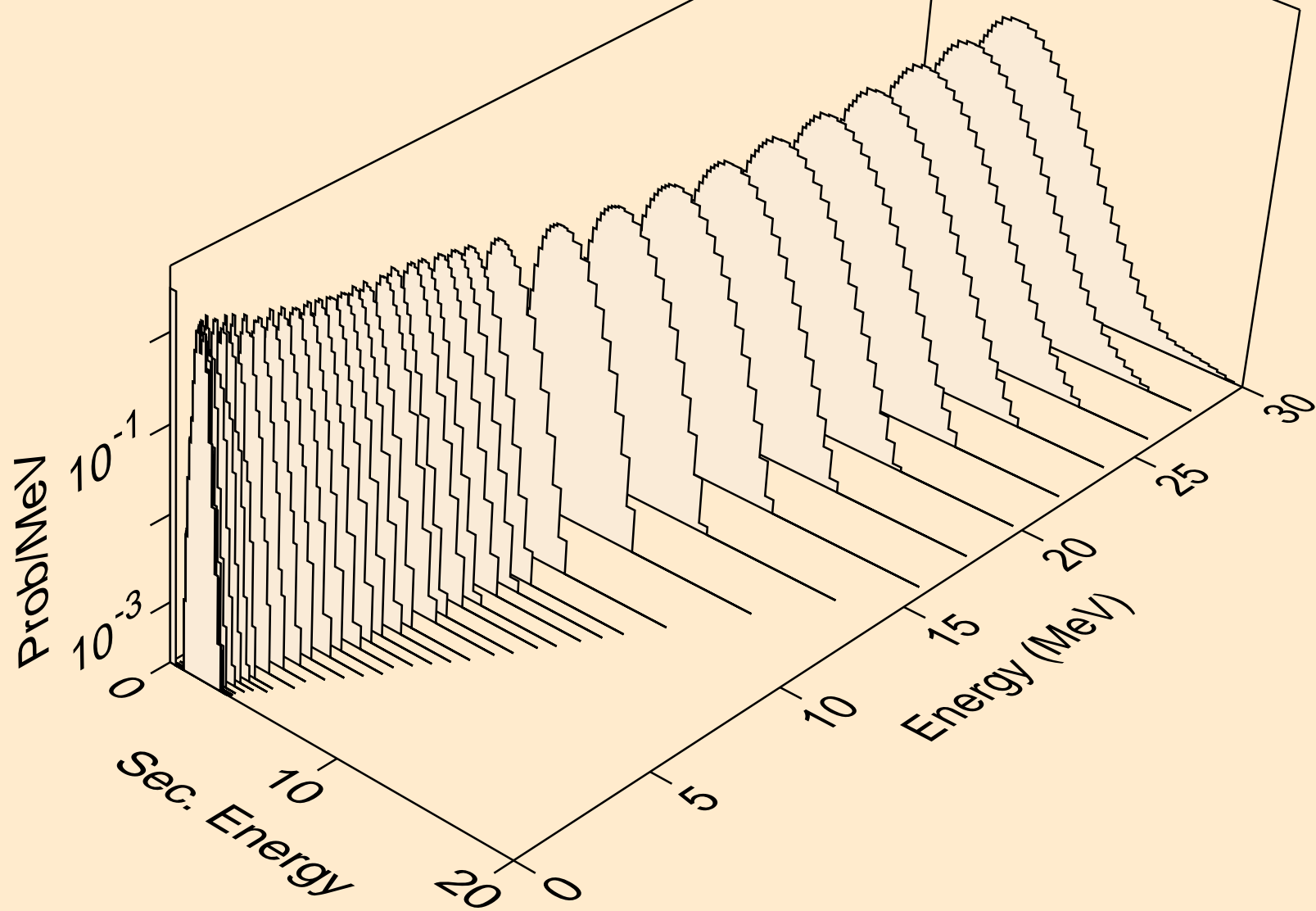
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protons from (n,p)



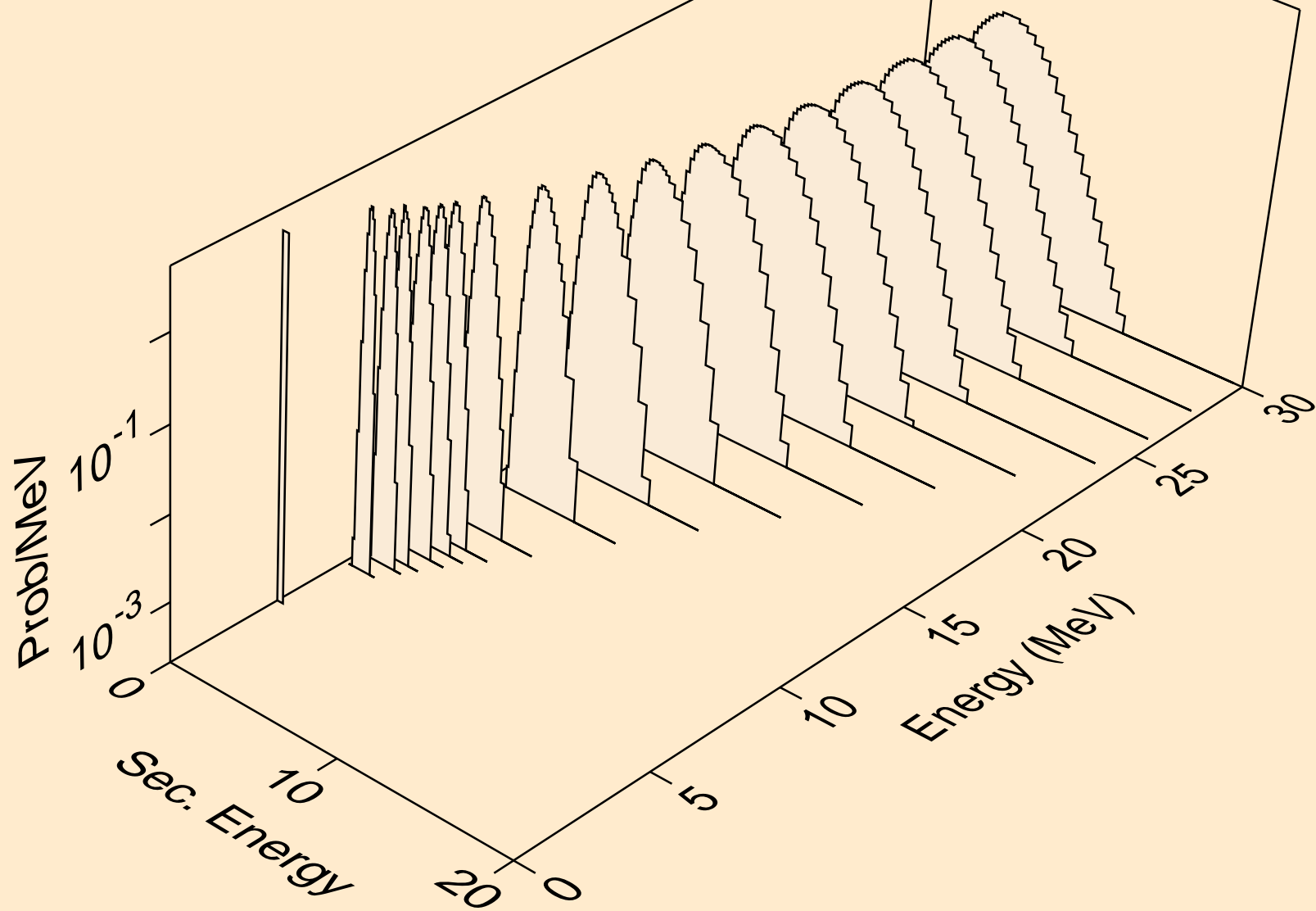
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protons from (n,2p)



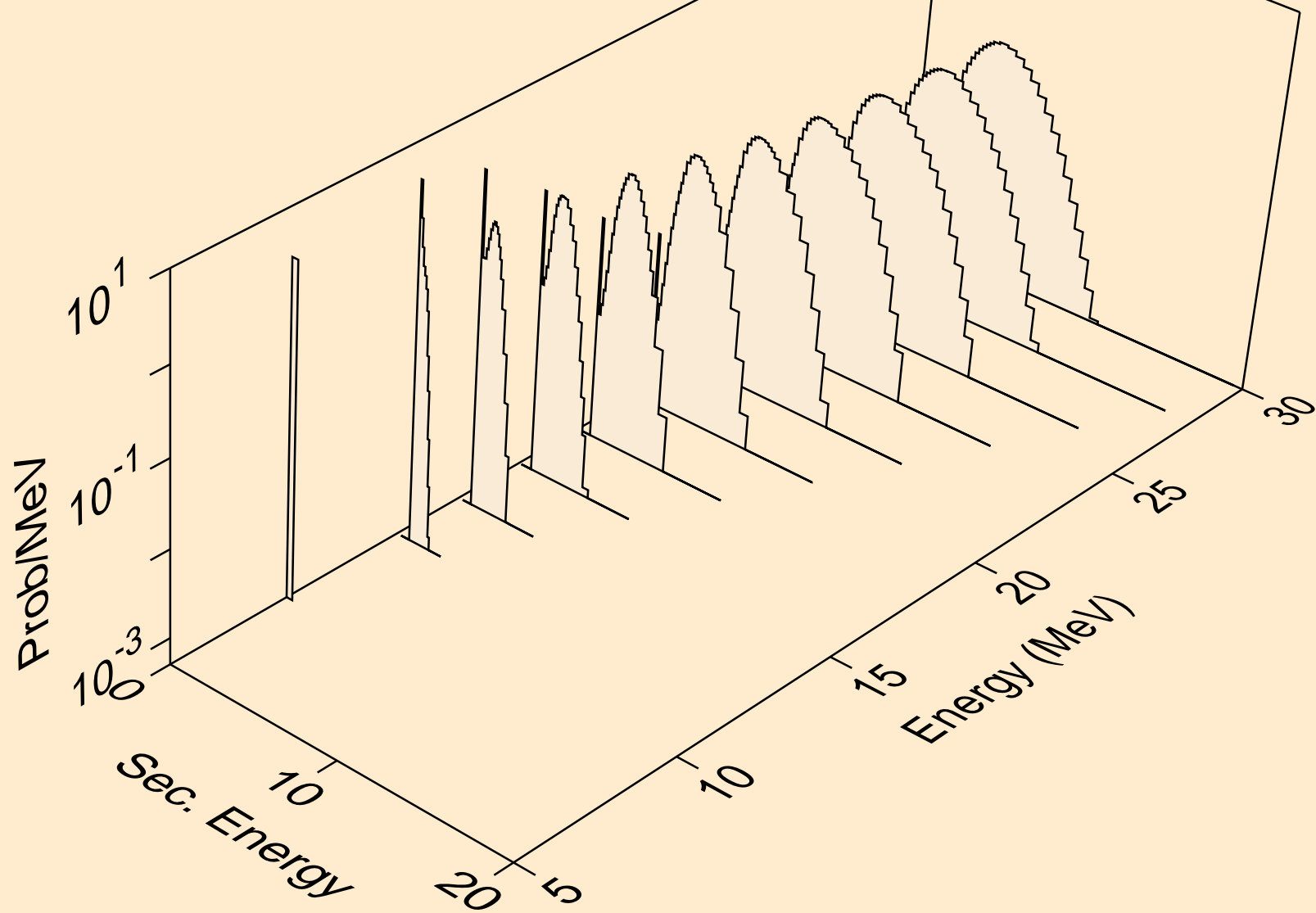
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protons from (n,p)



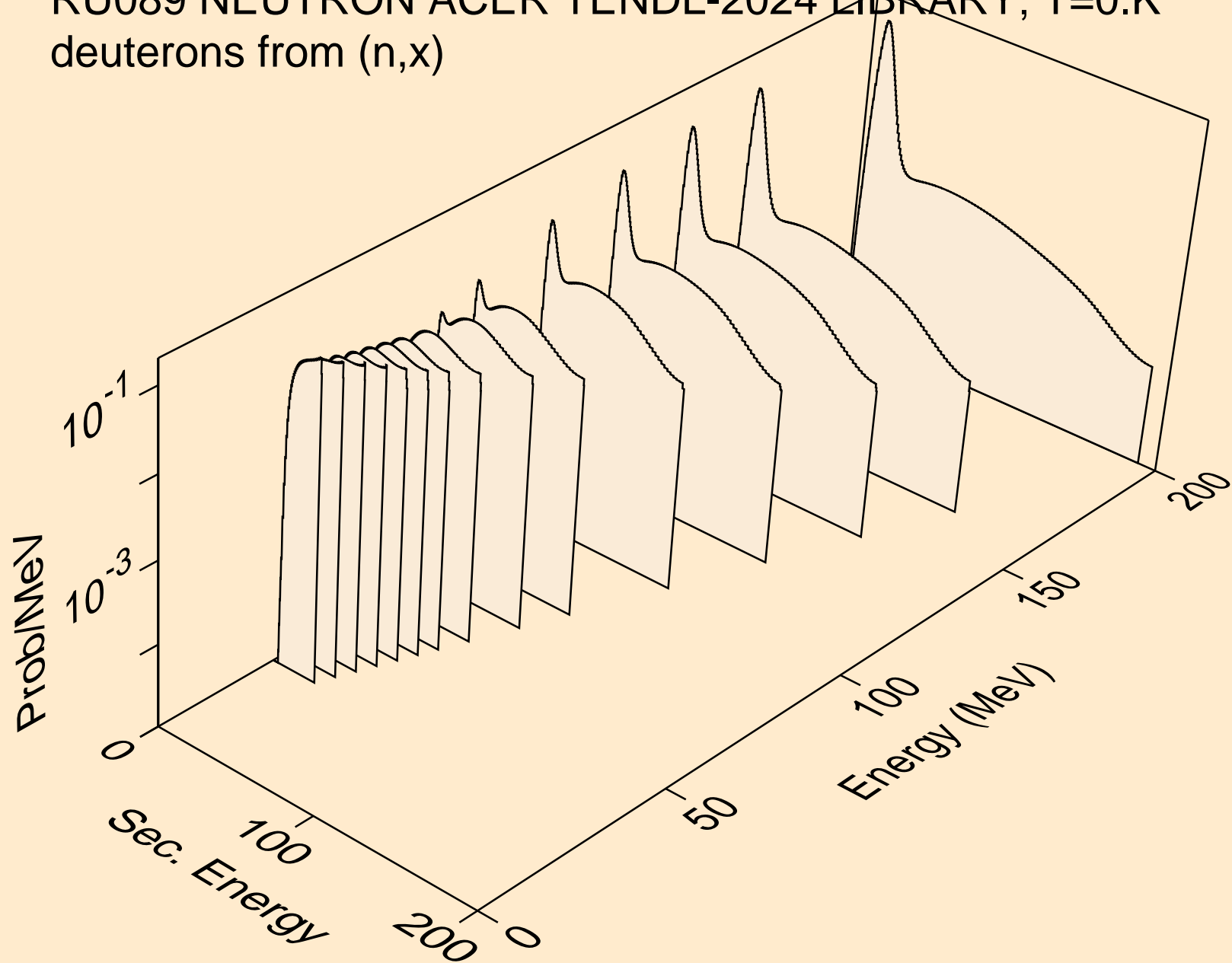
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protons from (n,pd)



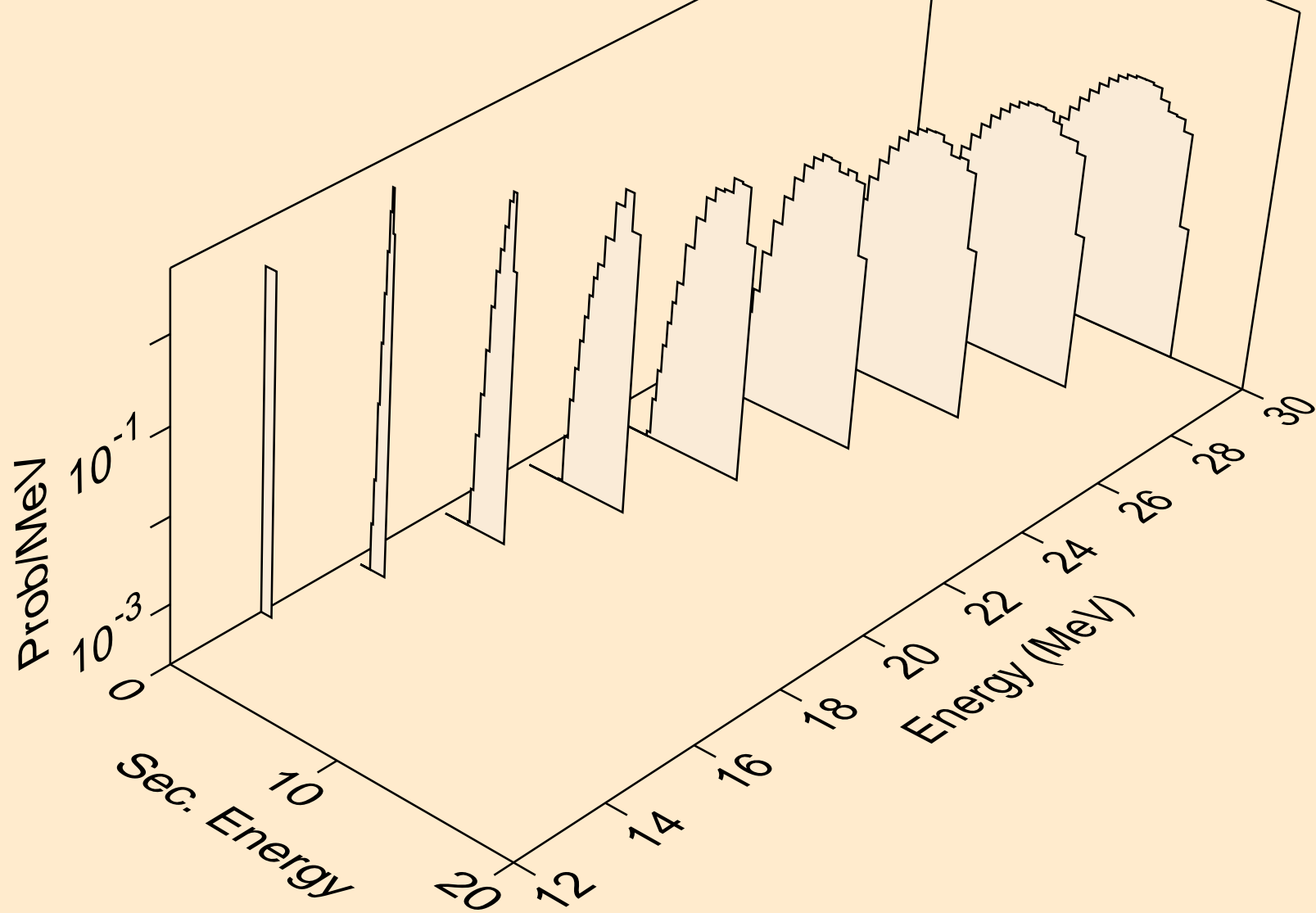
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protons from (n,pt)



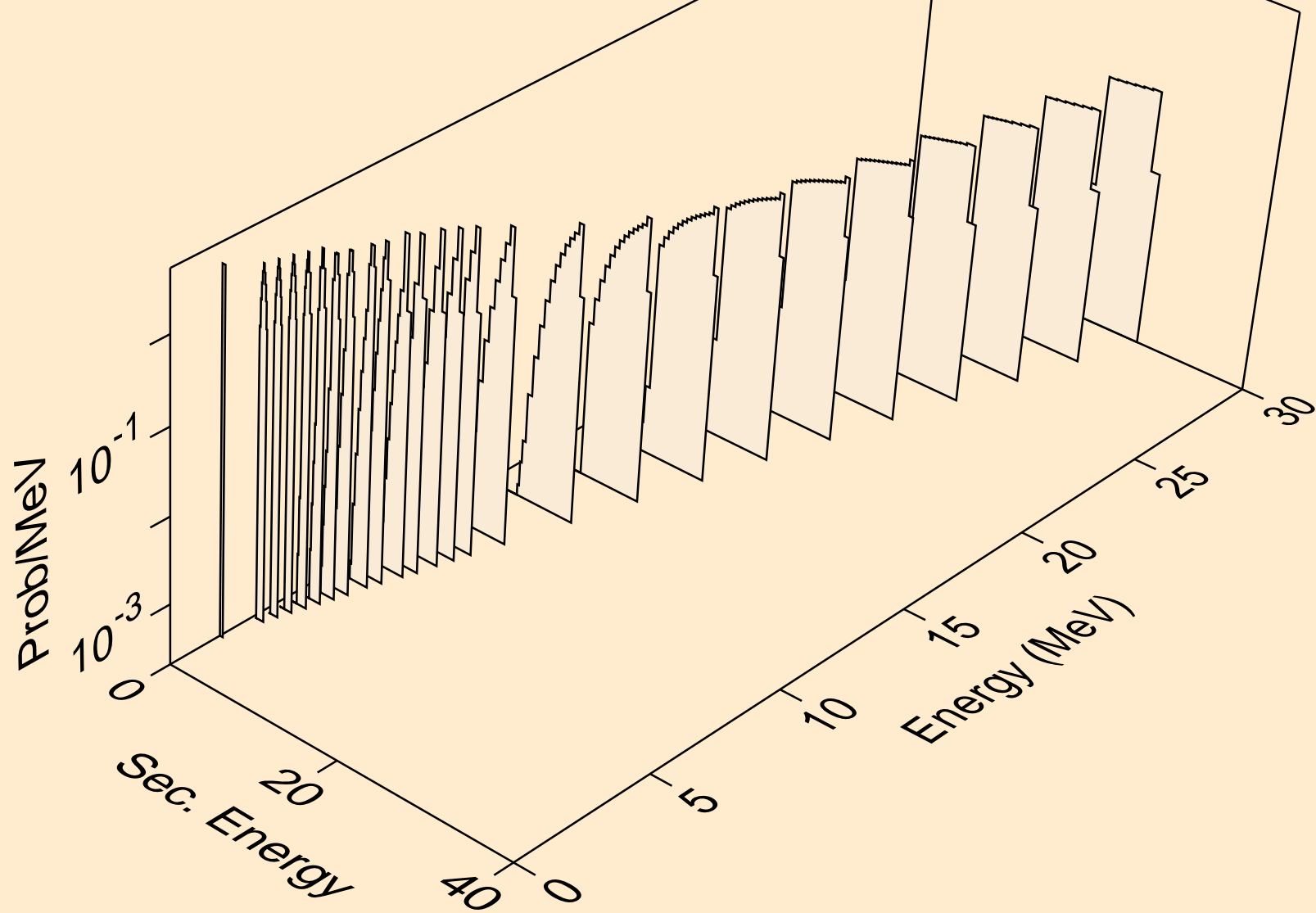
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,x)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,n\*)d

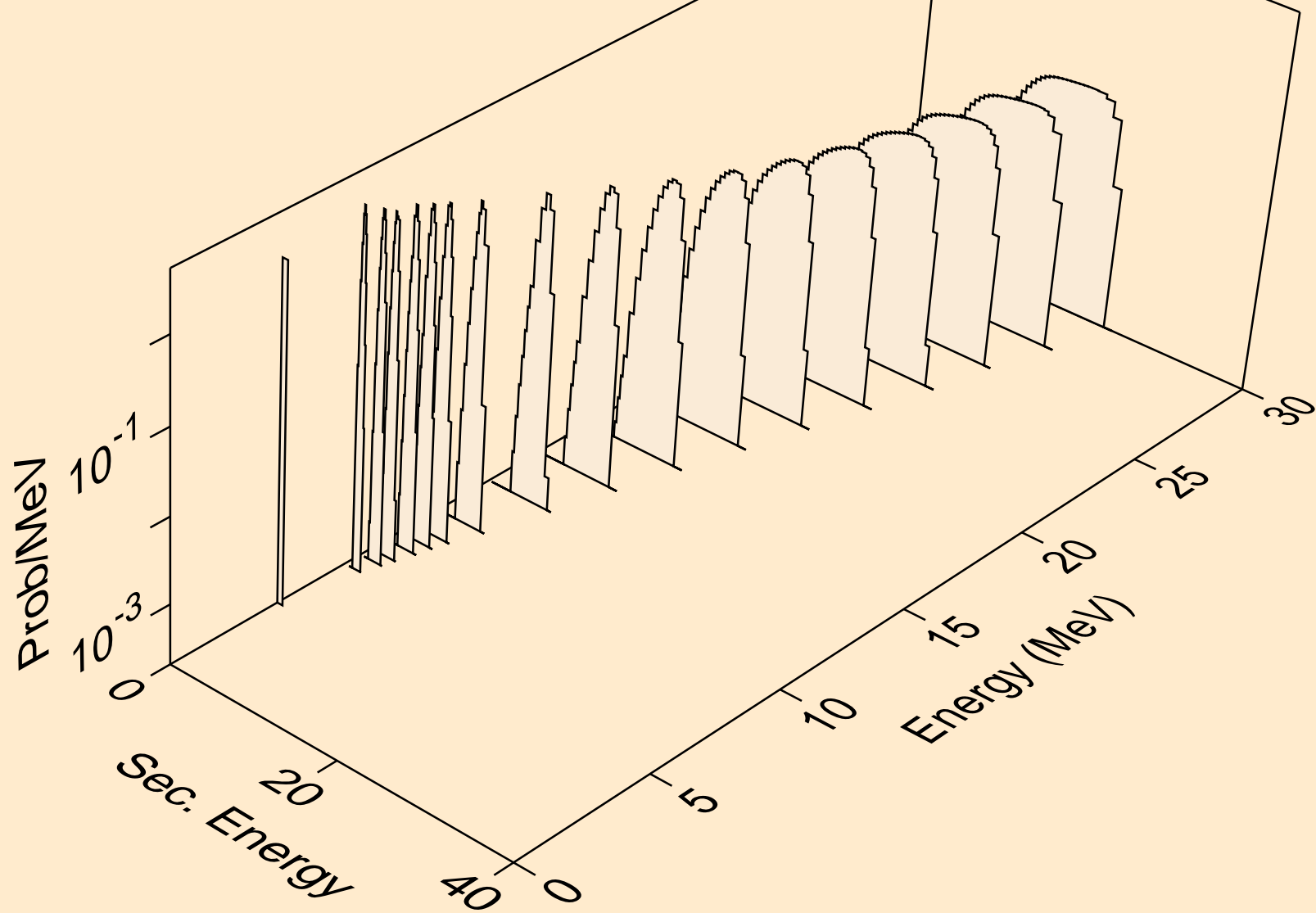


RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,d)

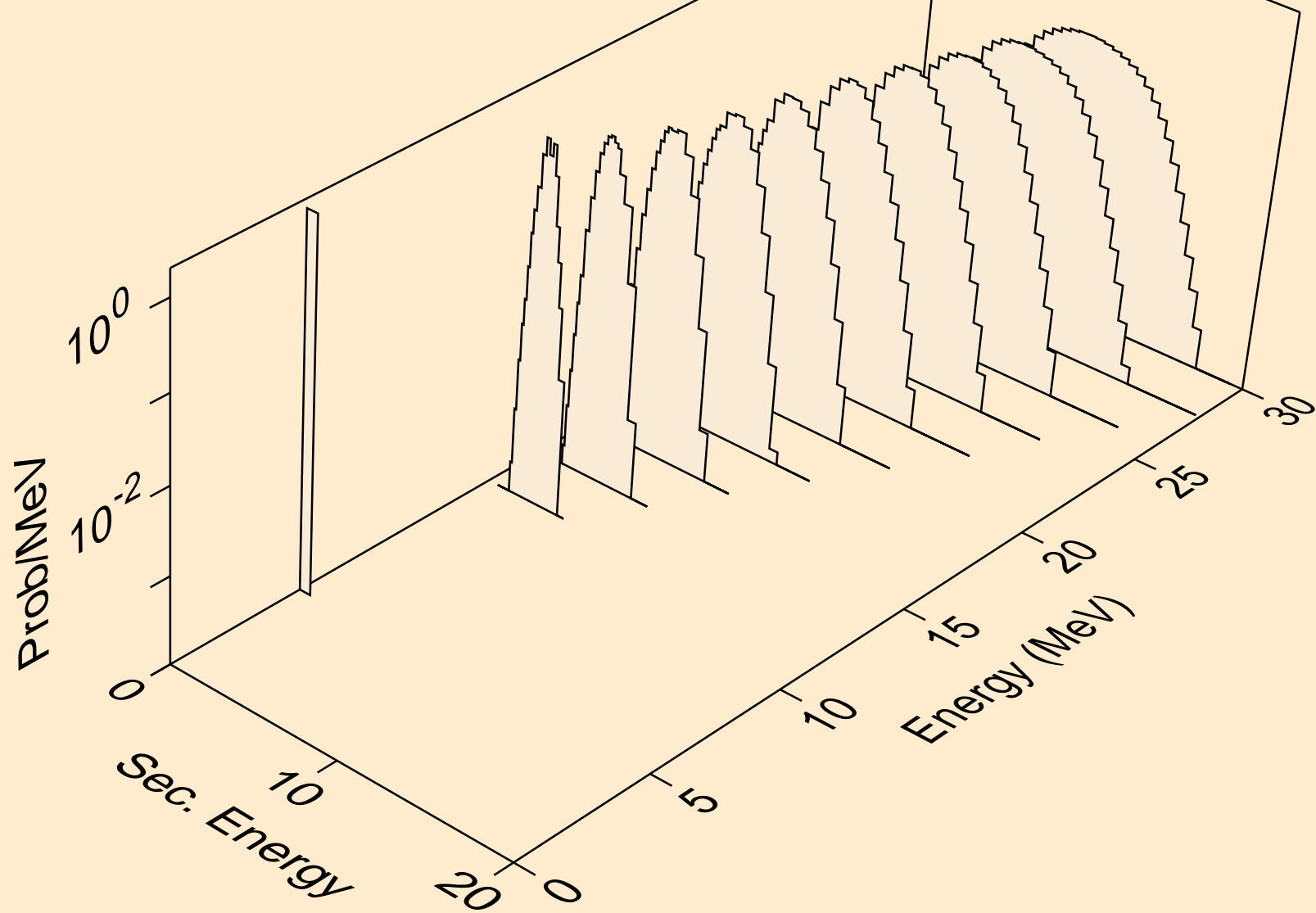




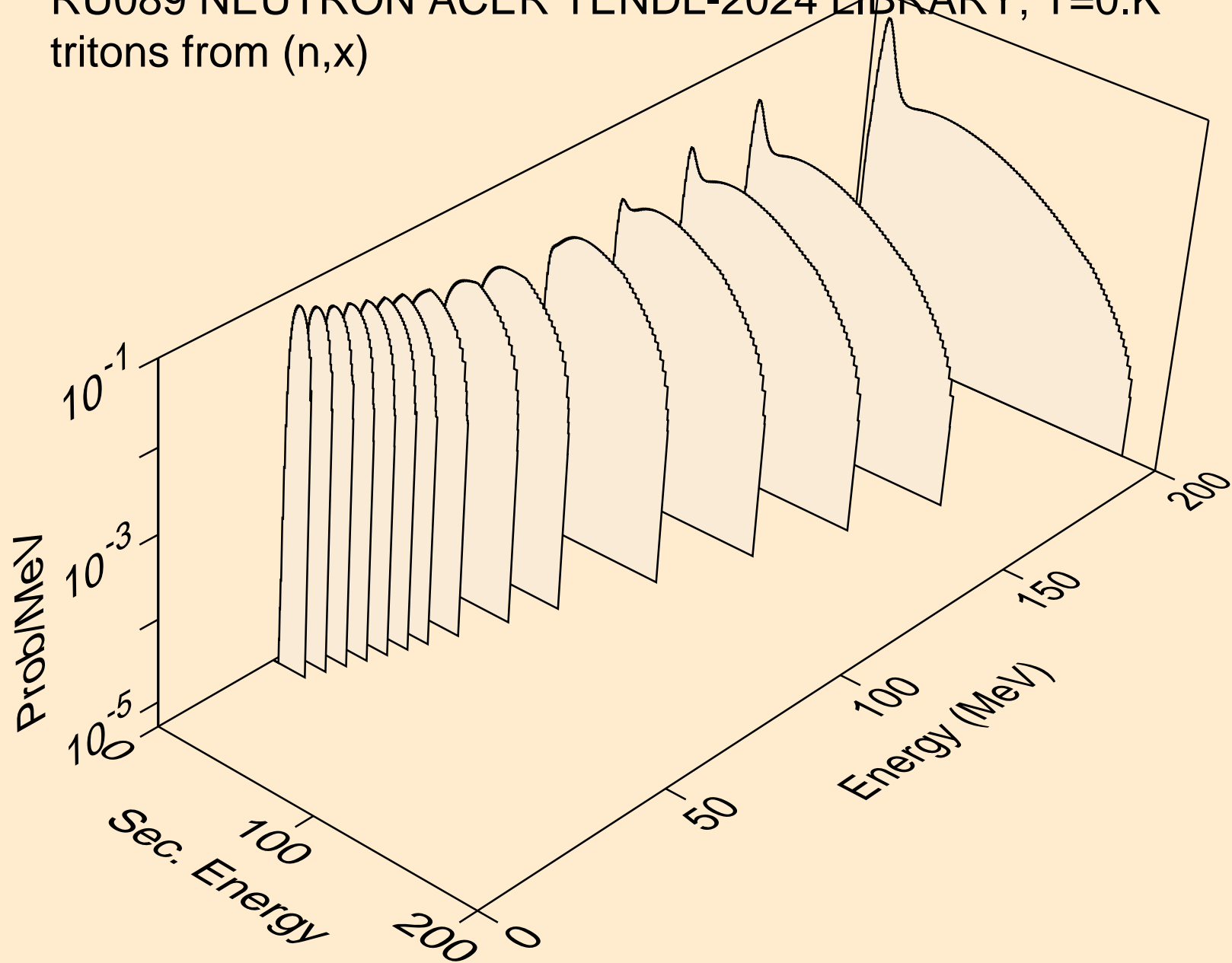
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deuterons from (n,pd)



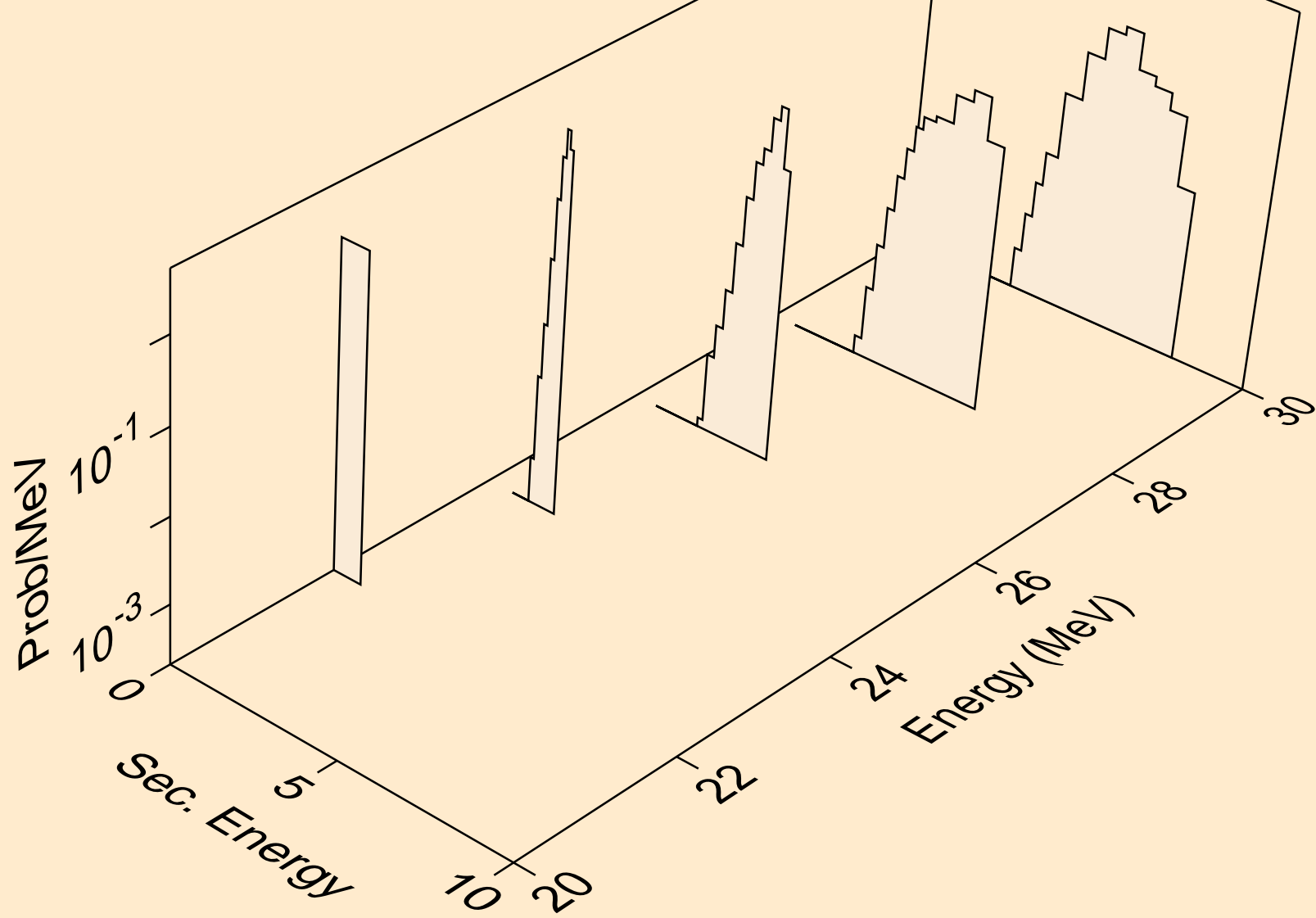
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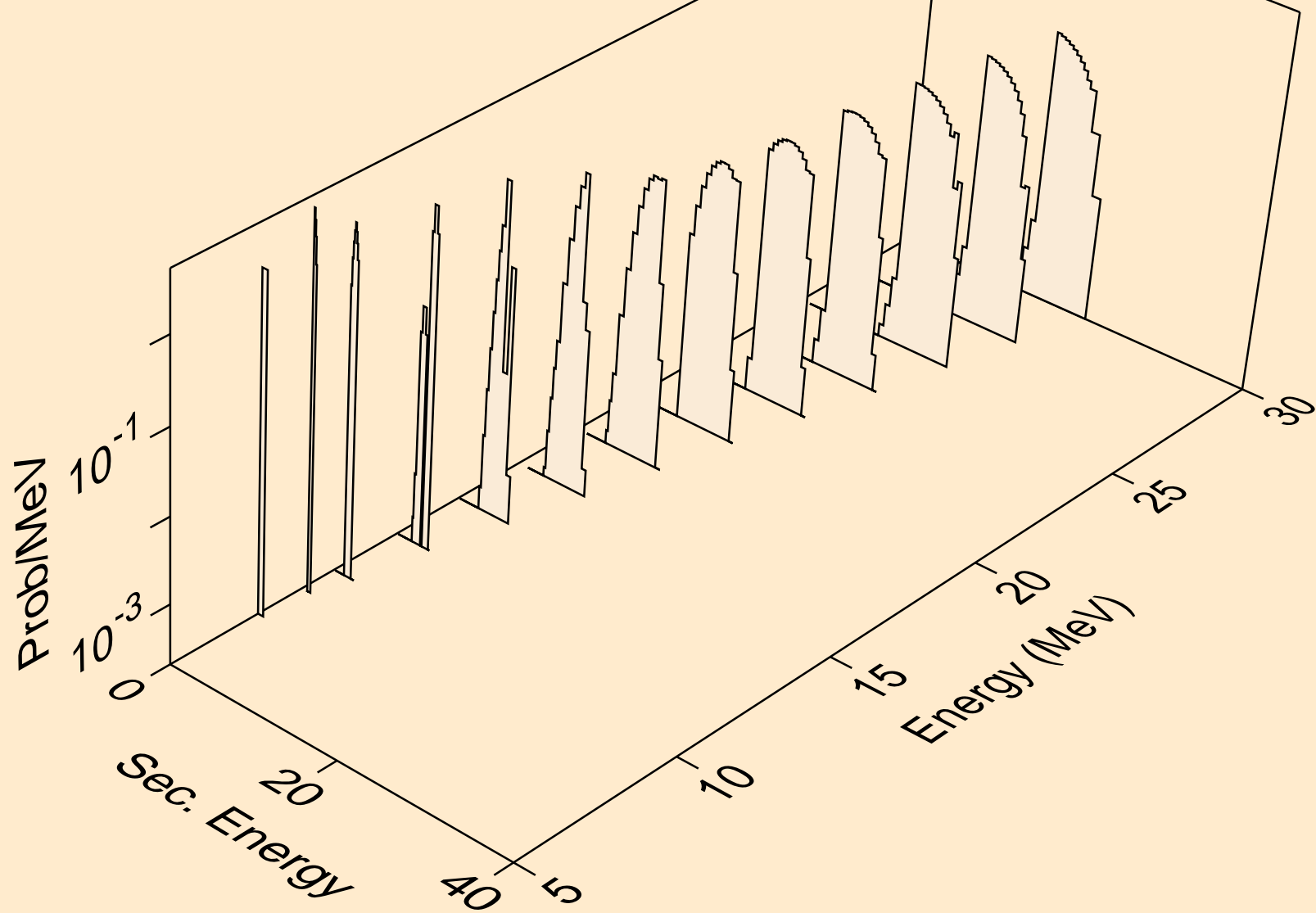
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tritons from (n,x)



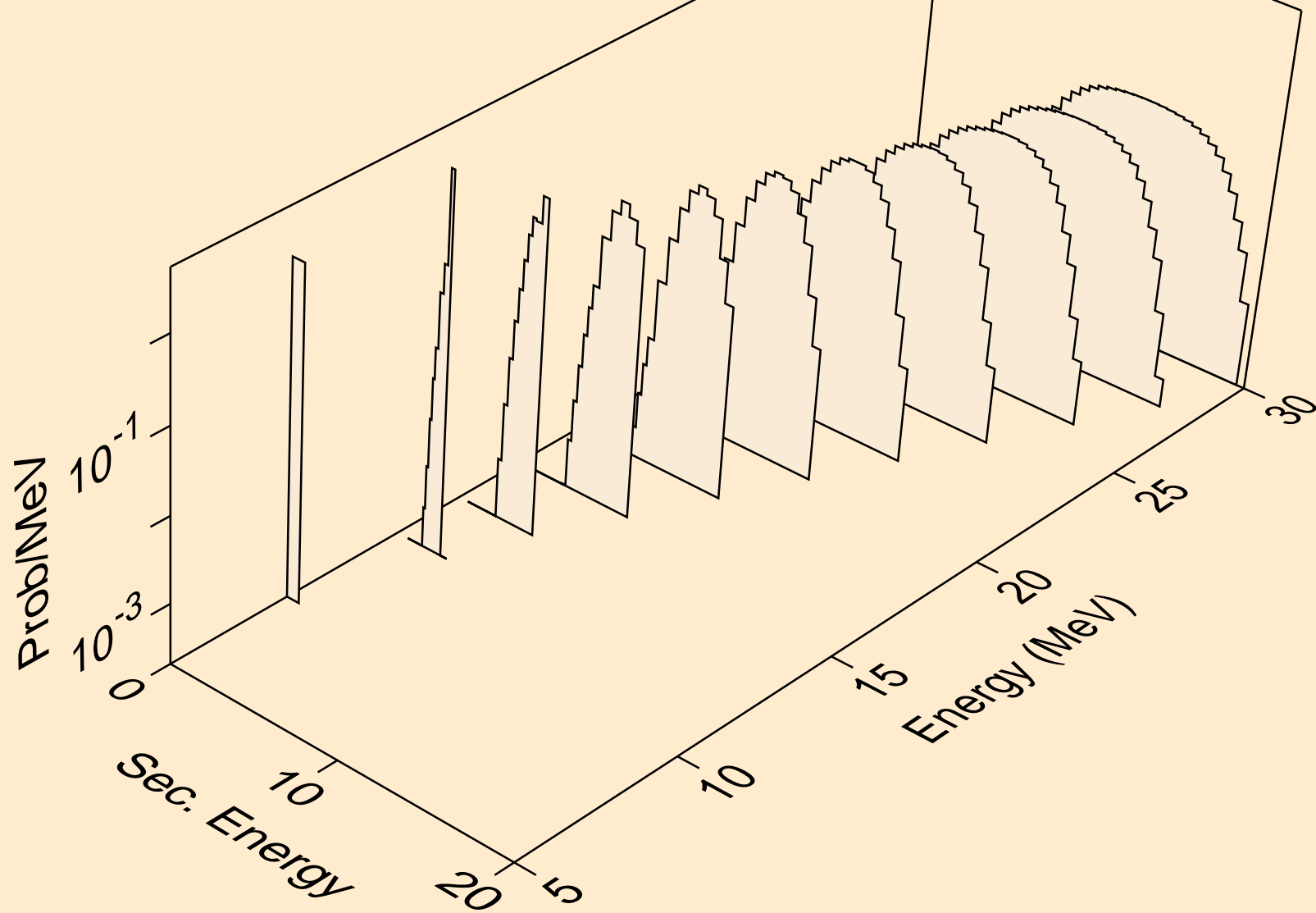
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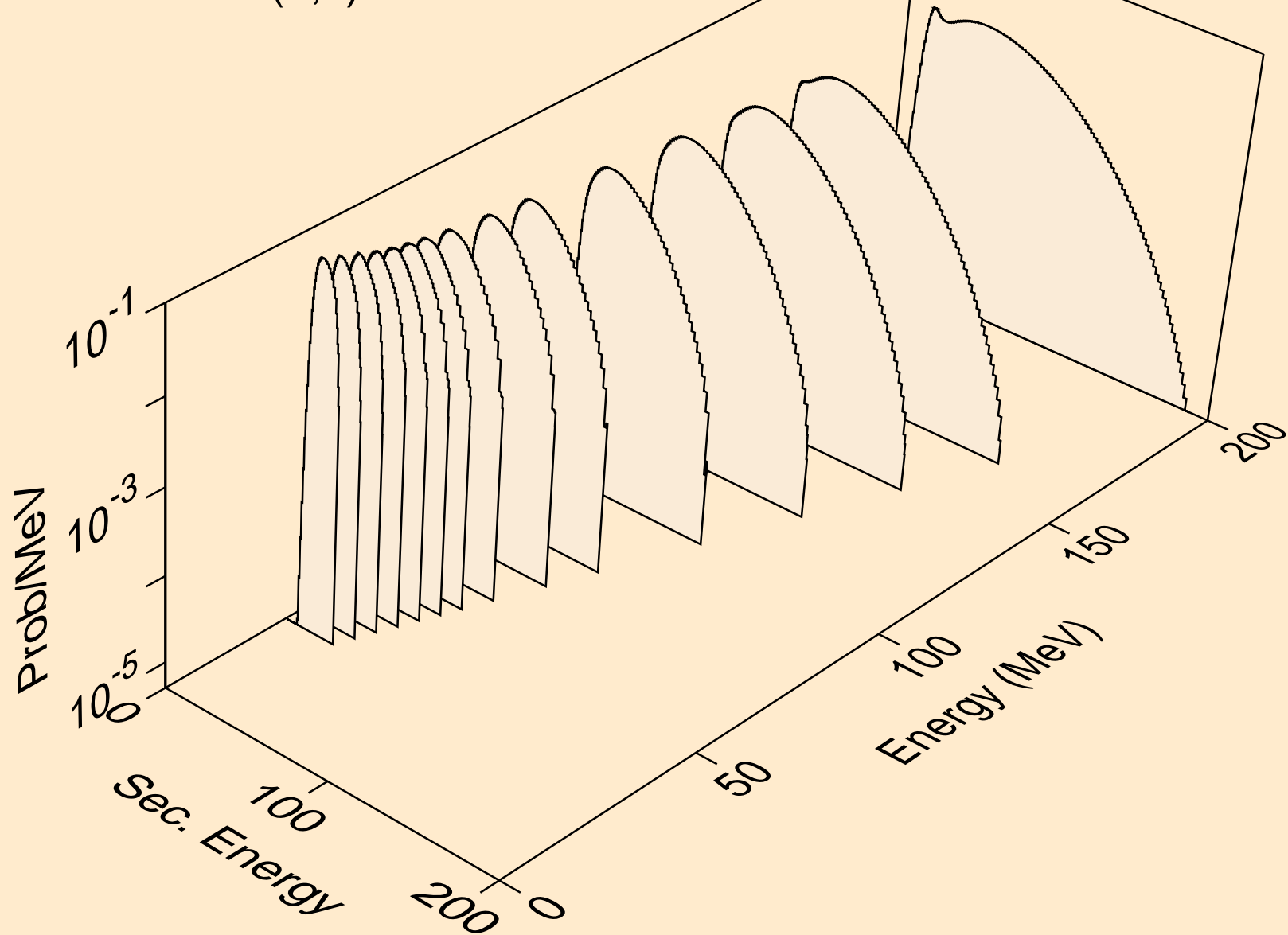
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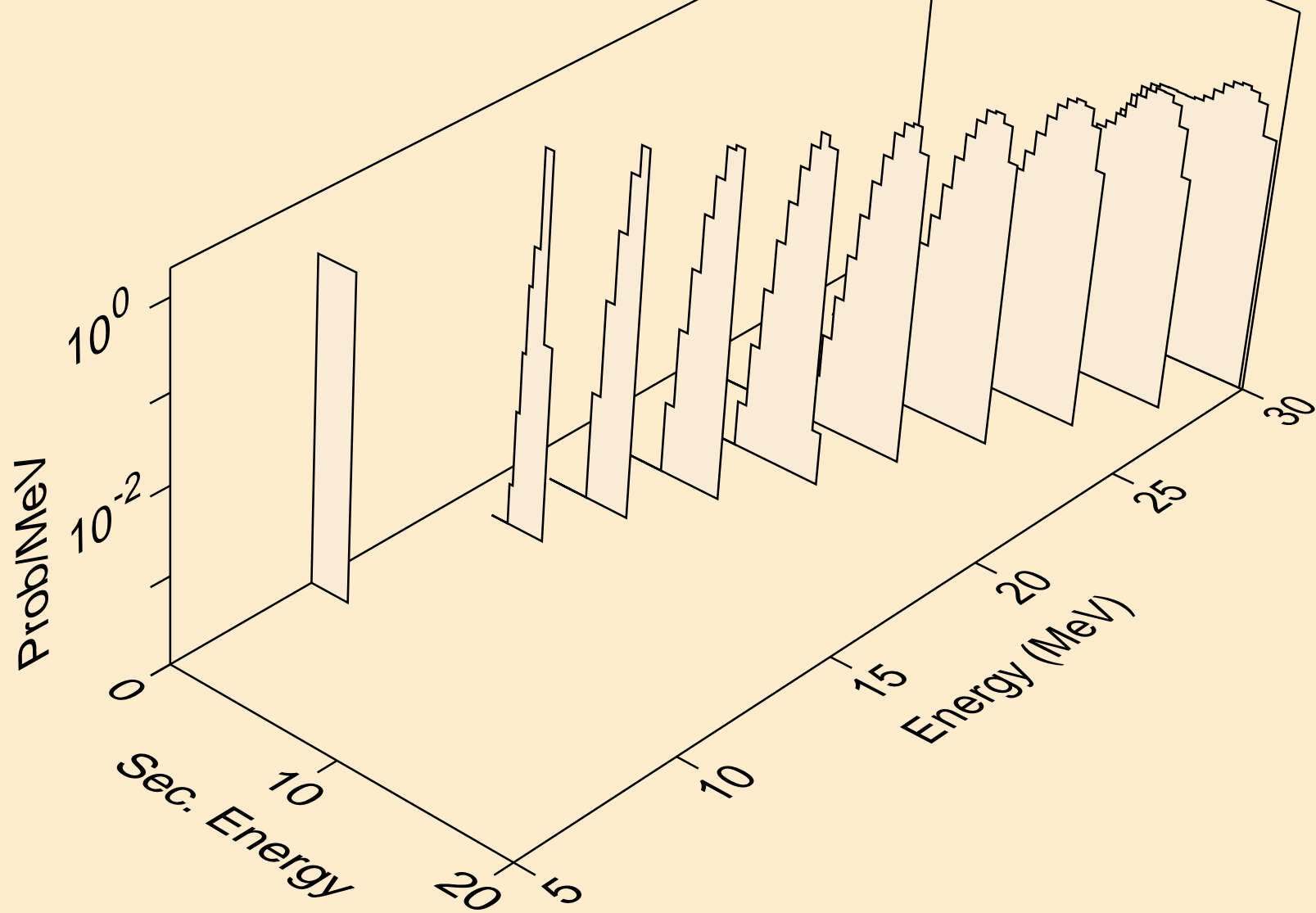
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,pt)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,x)

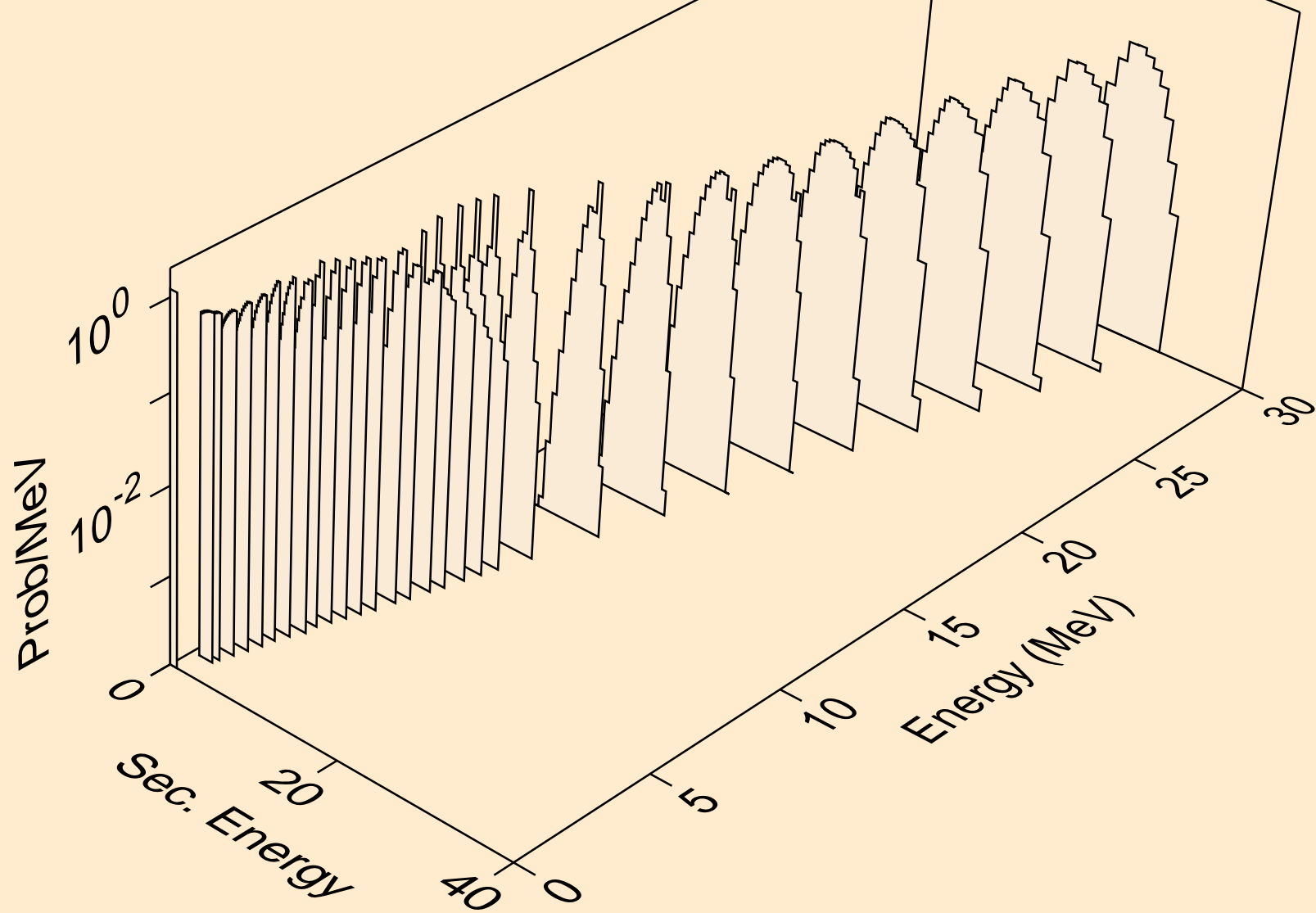


RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,n\*)he3

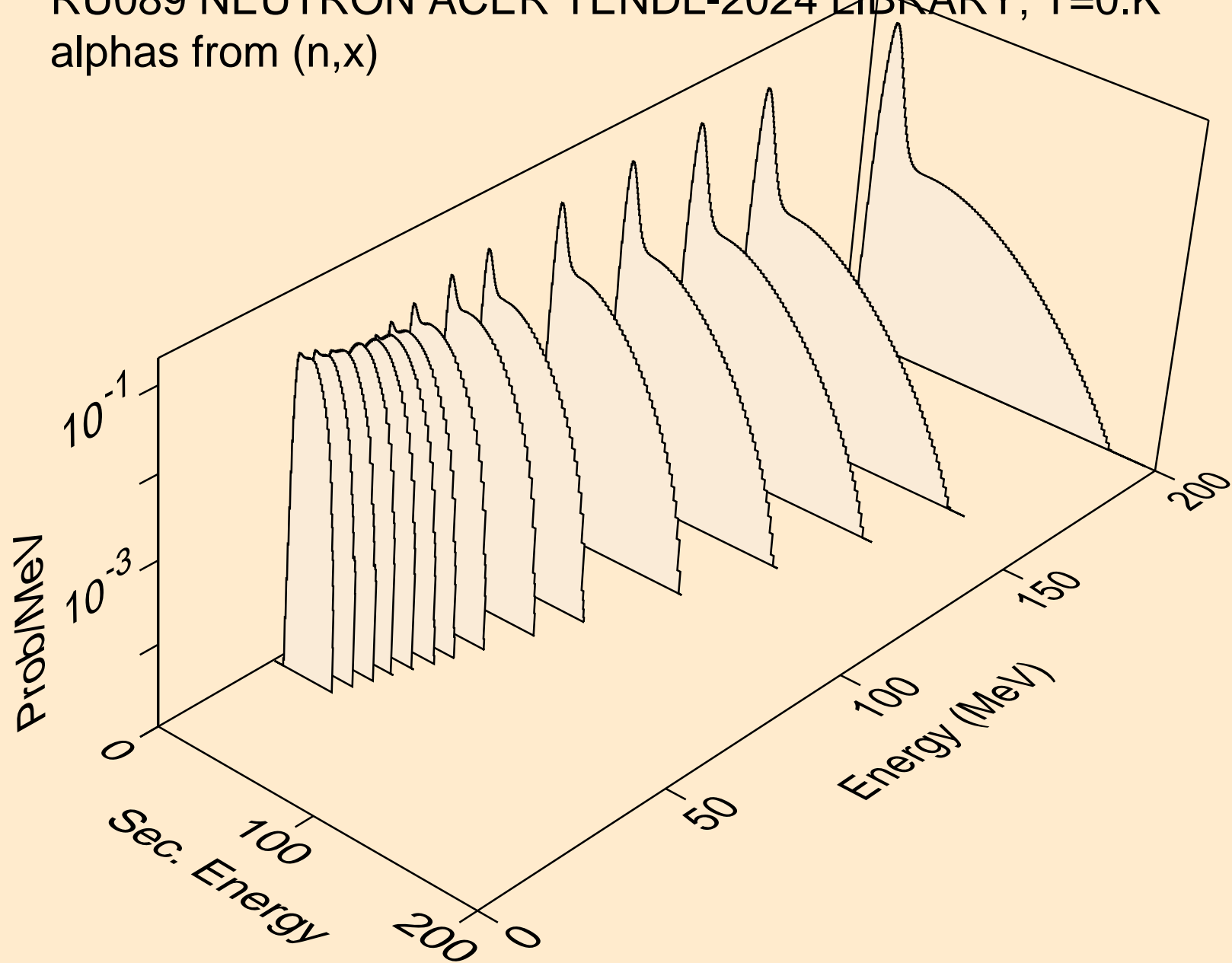




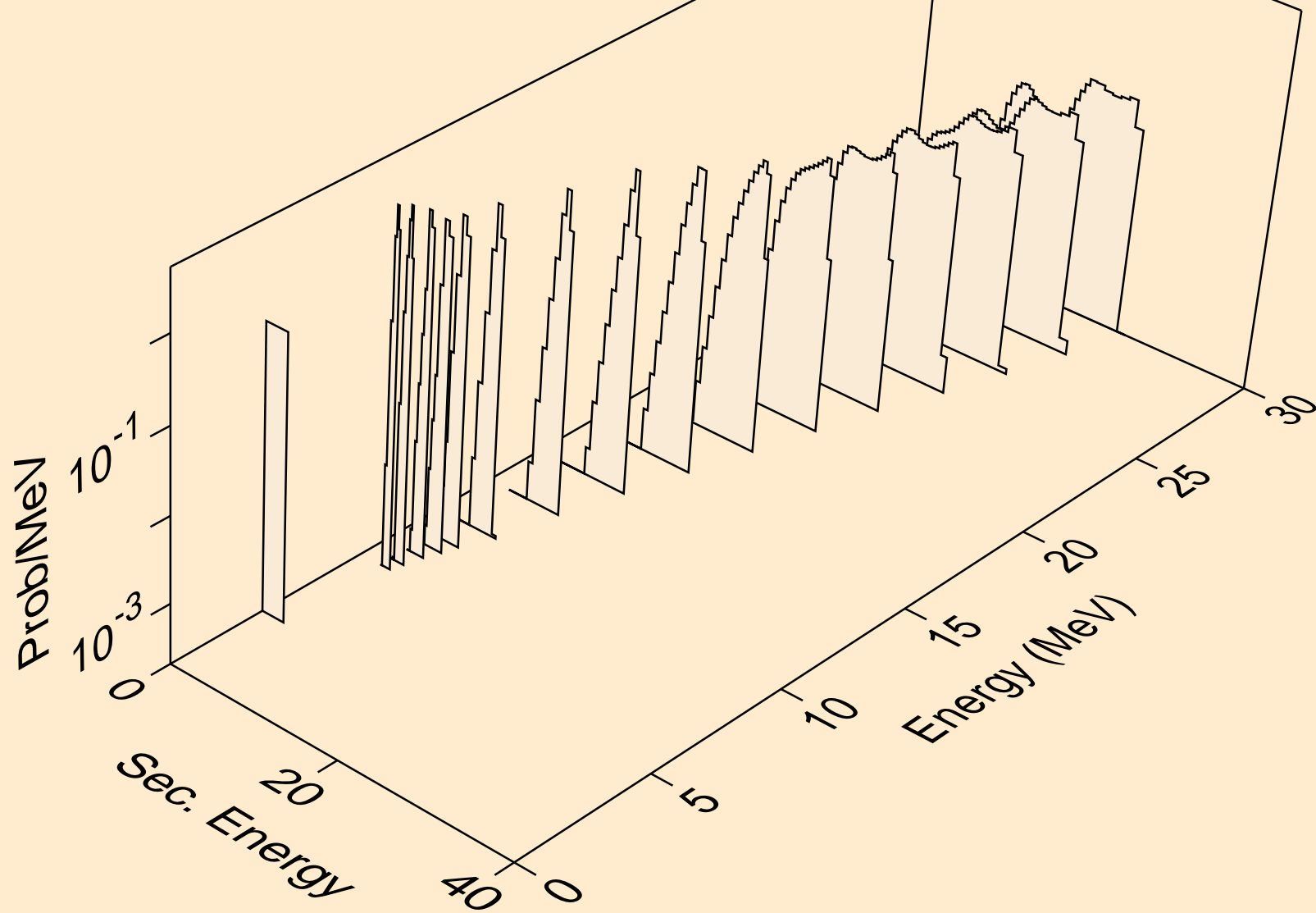
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he3s from (n,he3)



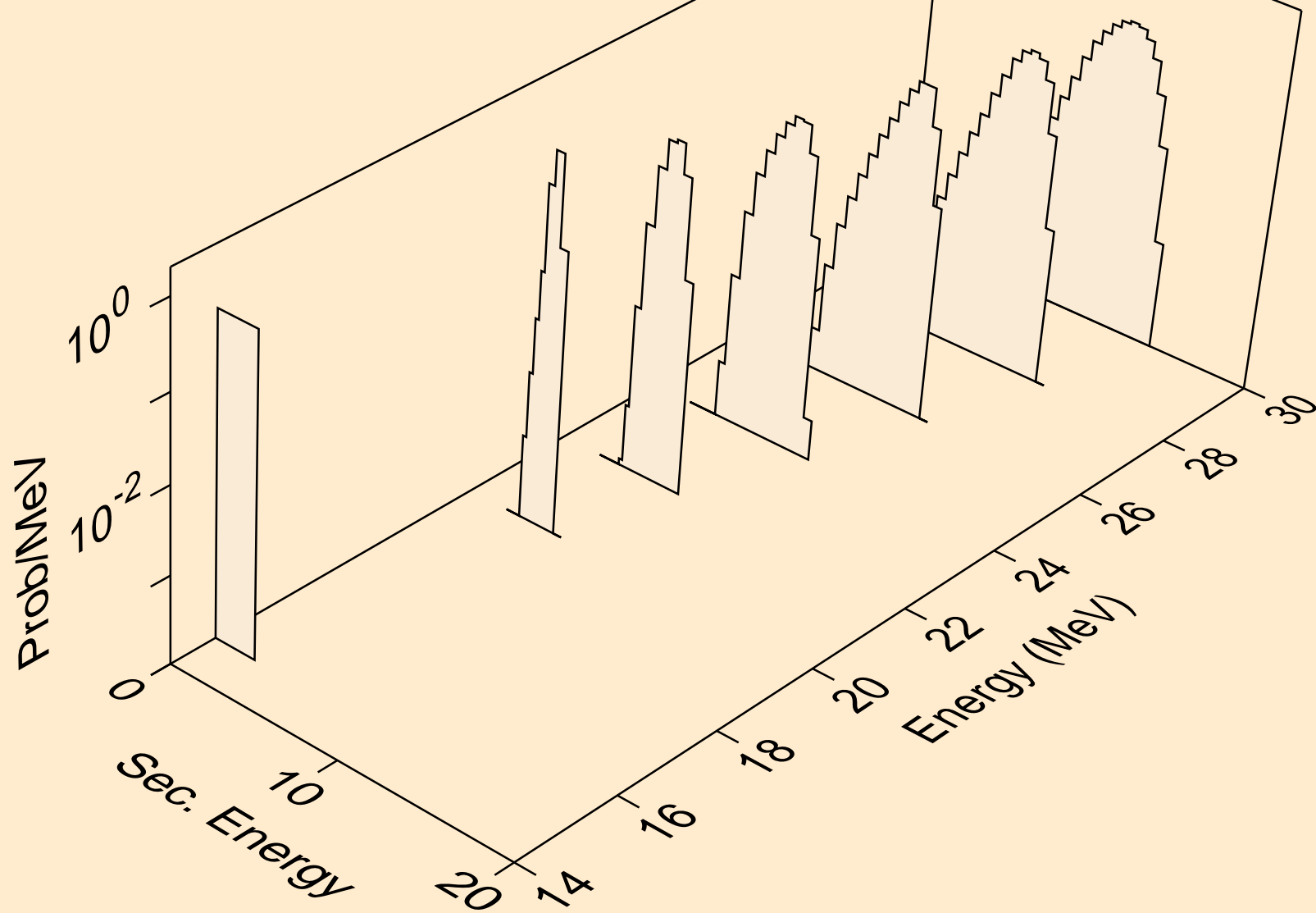
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alphas from (n,x)



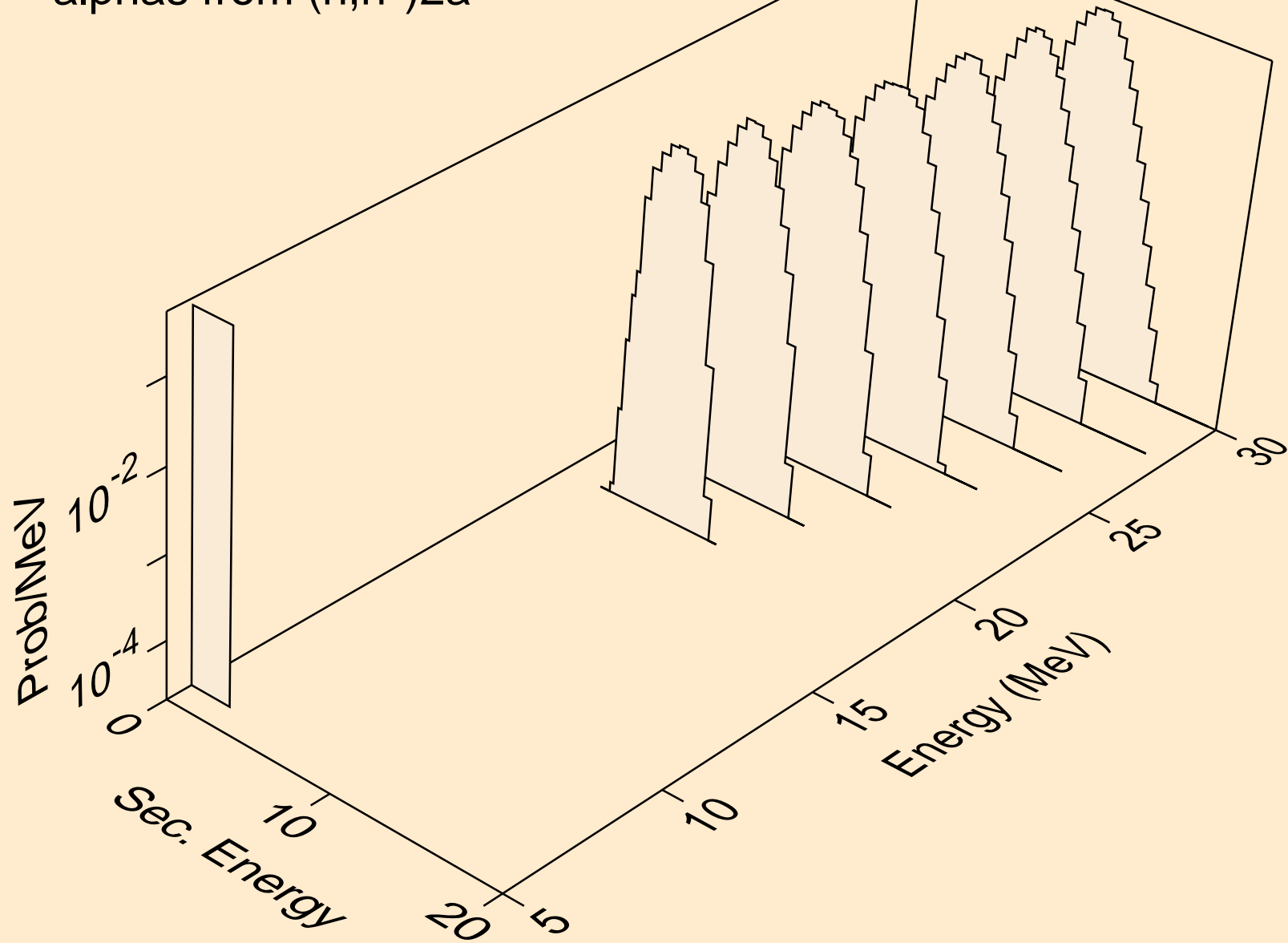
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



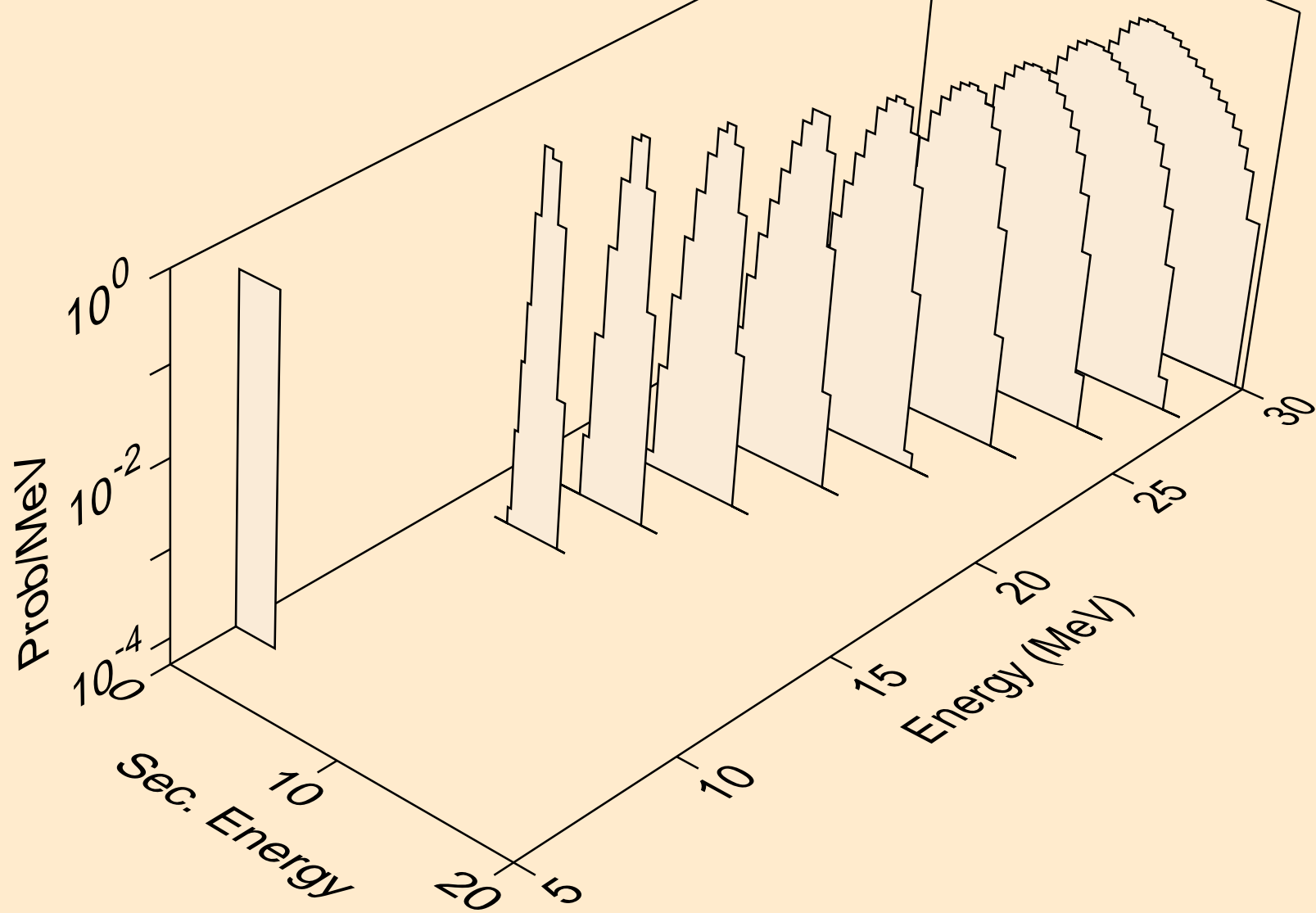
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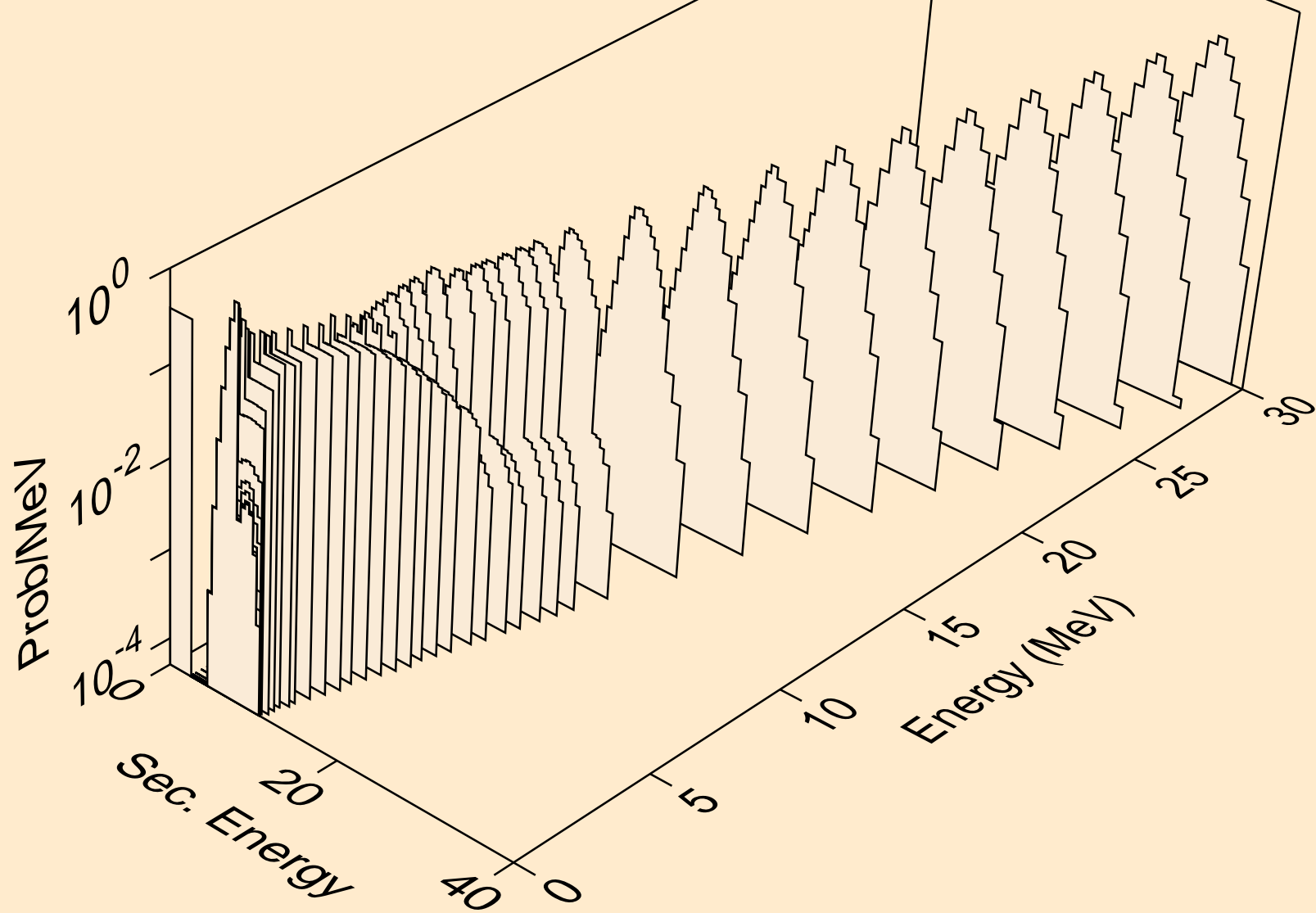
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alphas from (n,n\*)2a



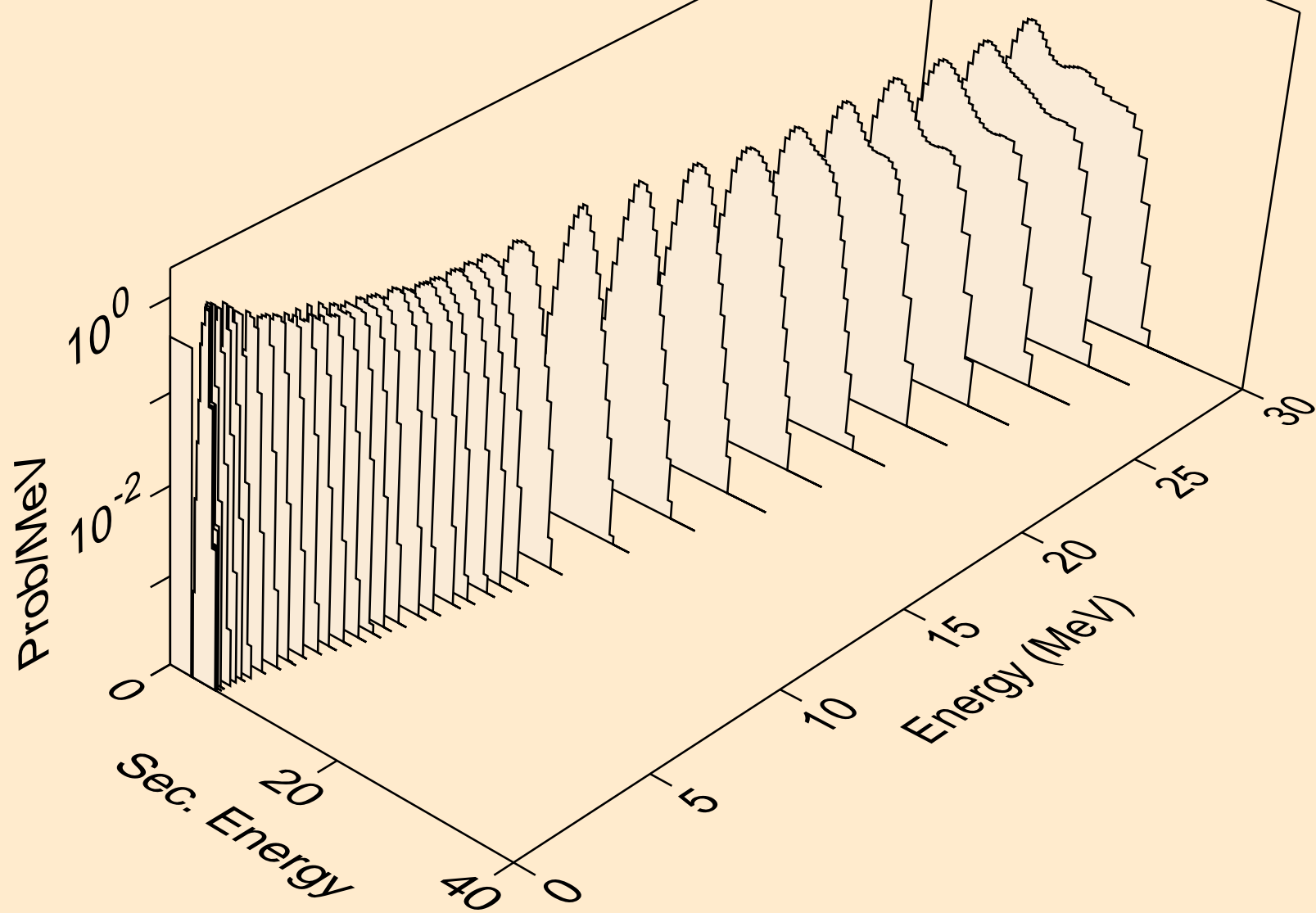
RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,npa)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)

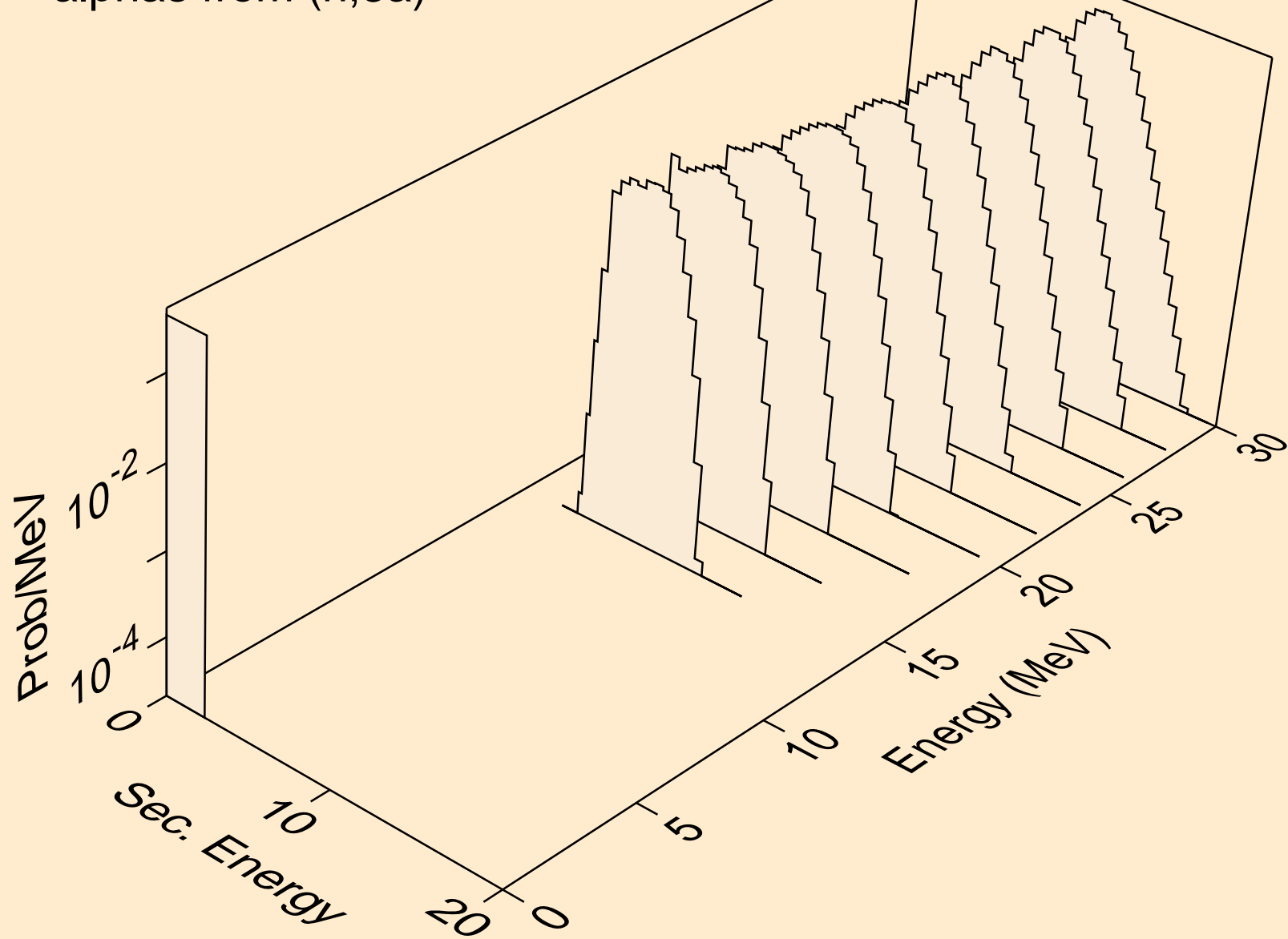


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alphas from (n,2a)

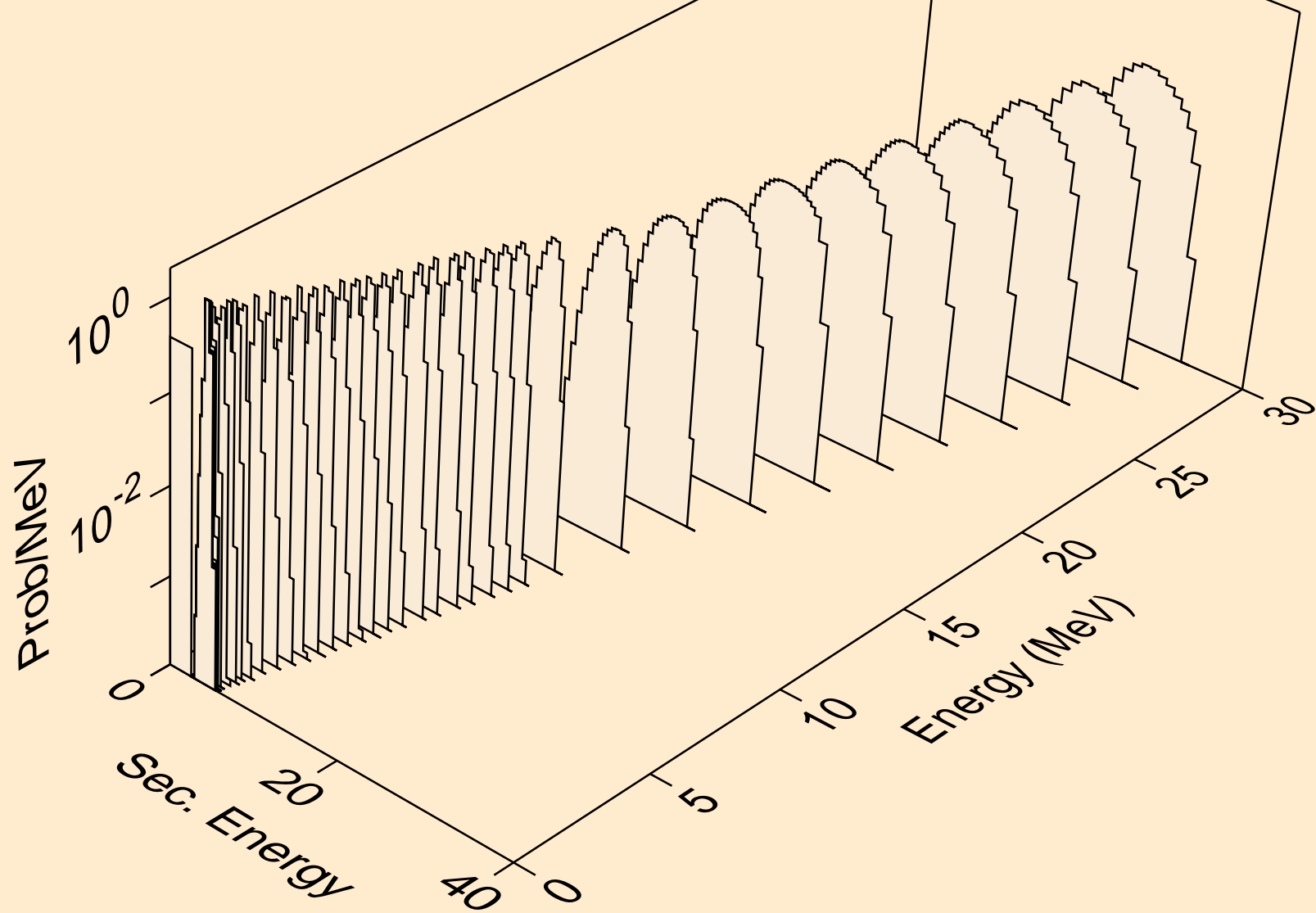




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alphas from (n,3a)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)



RU089 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

