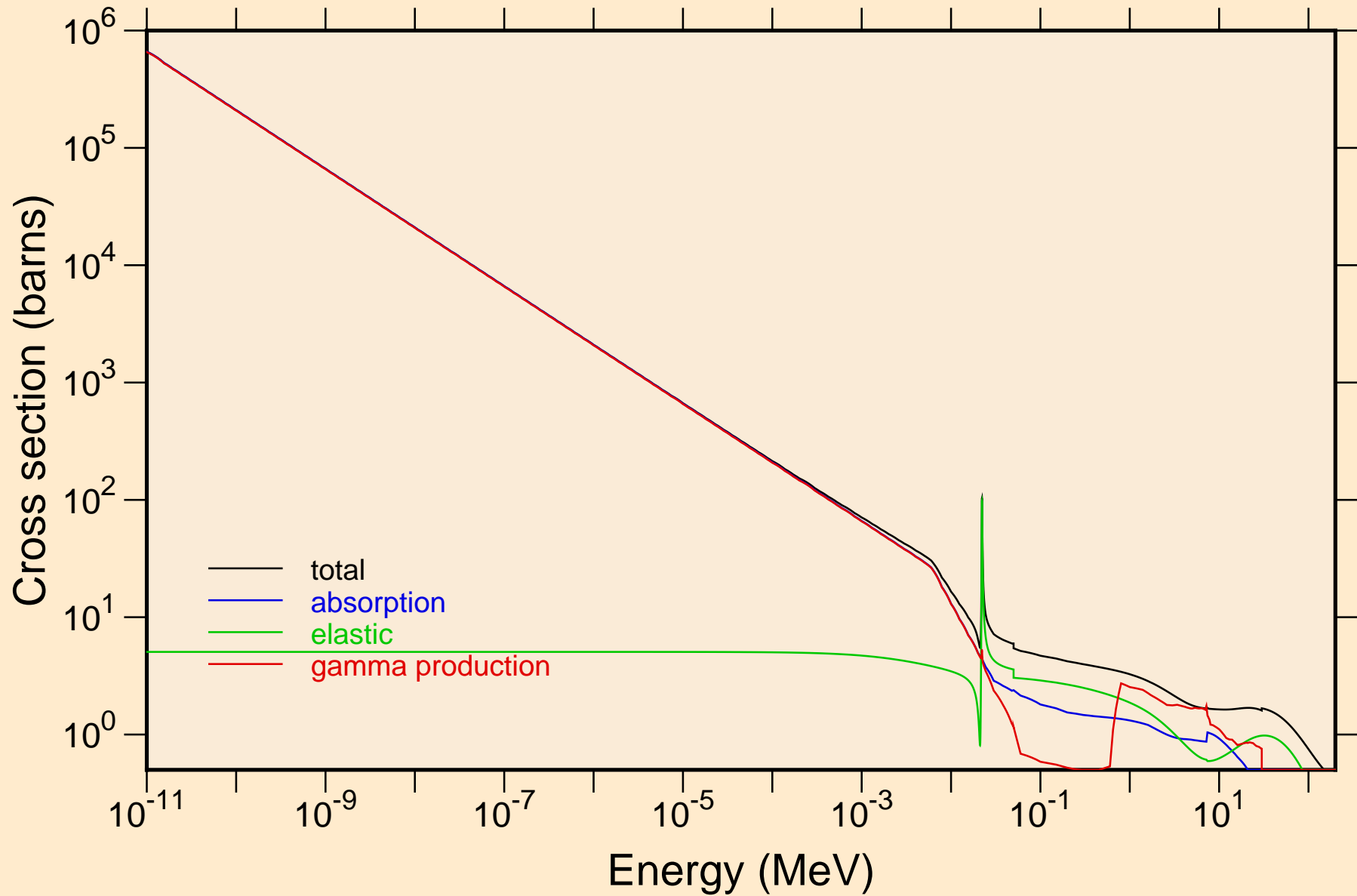


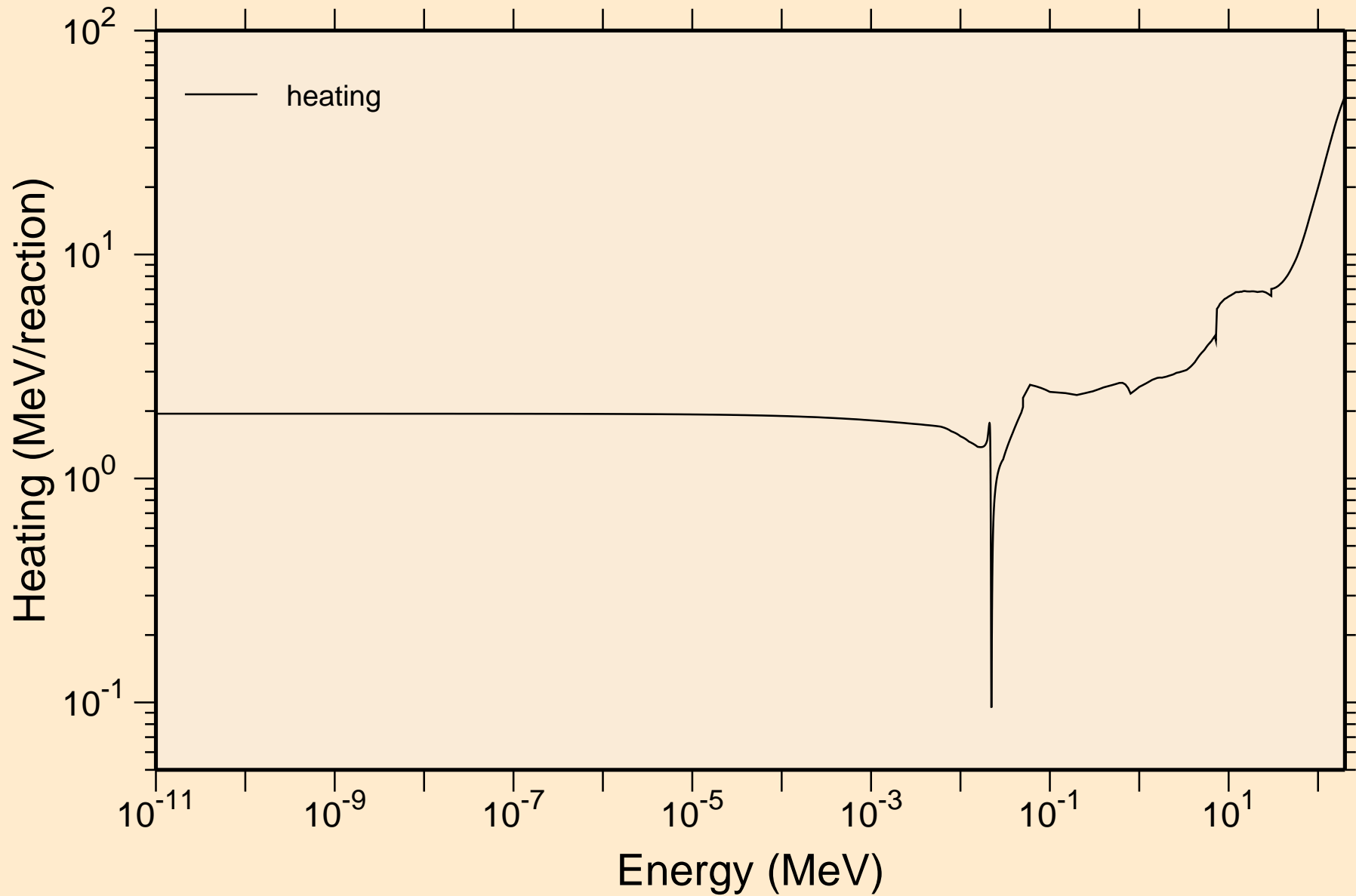
# NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections

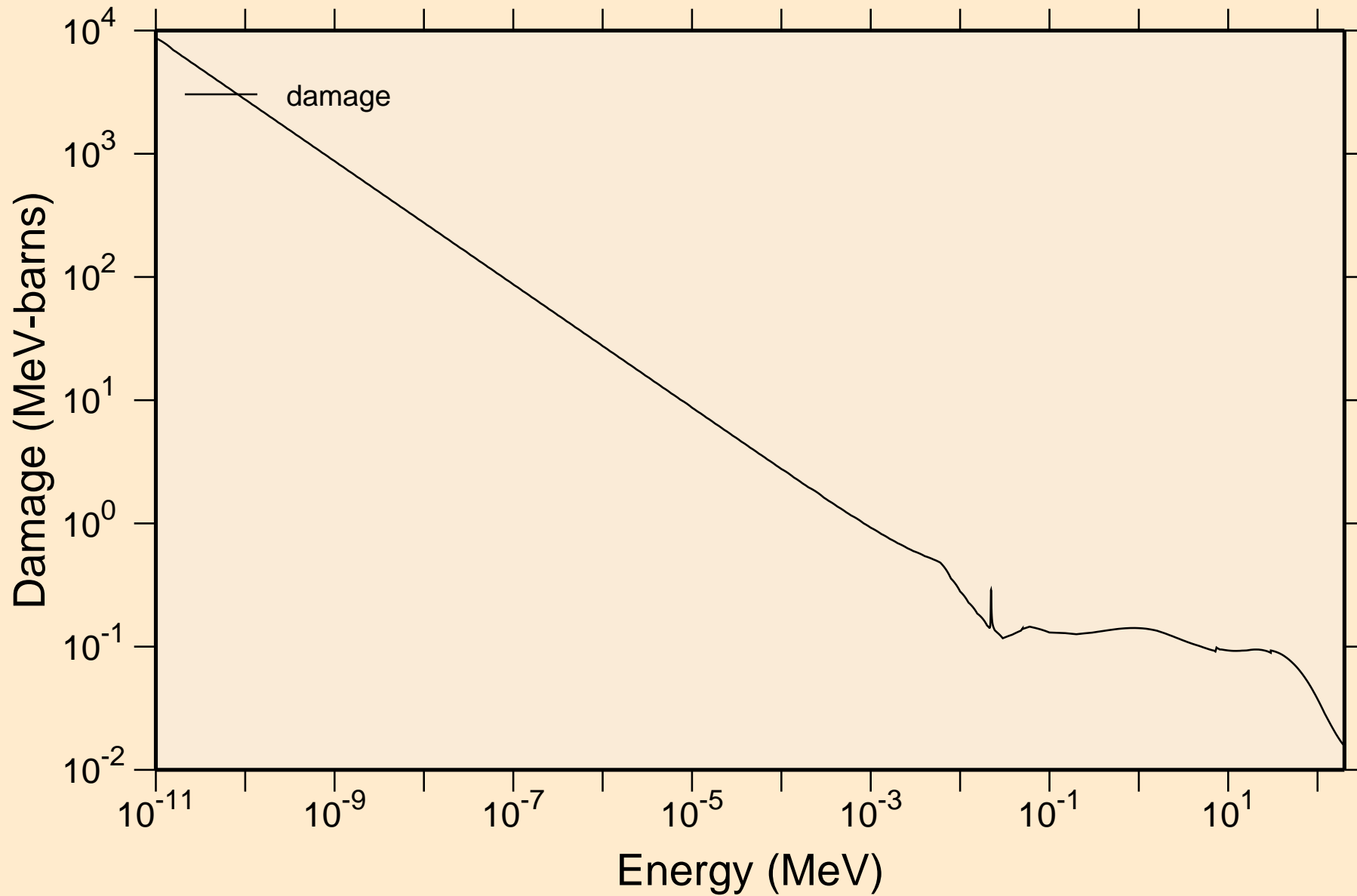


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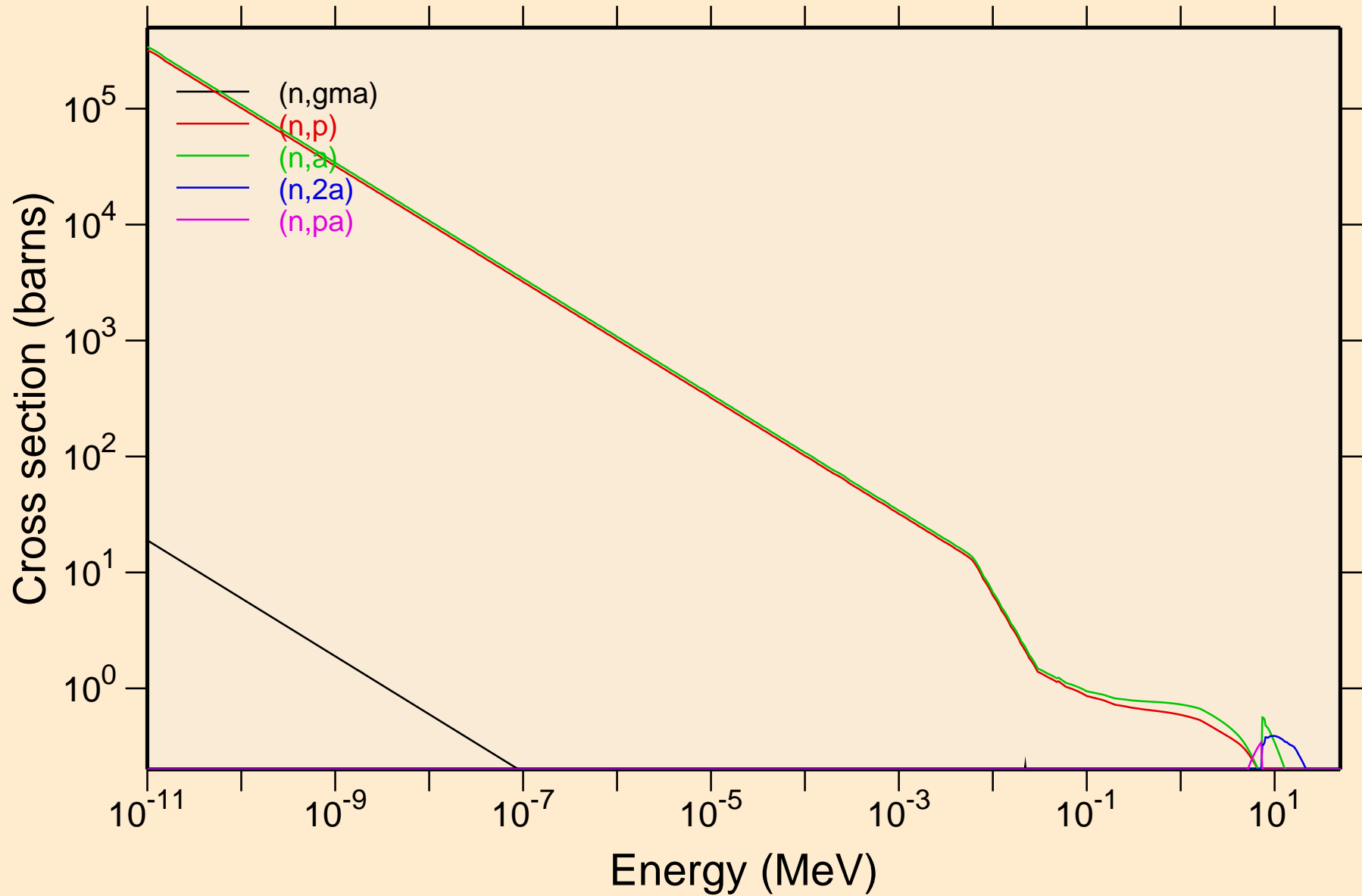
## Heating



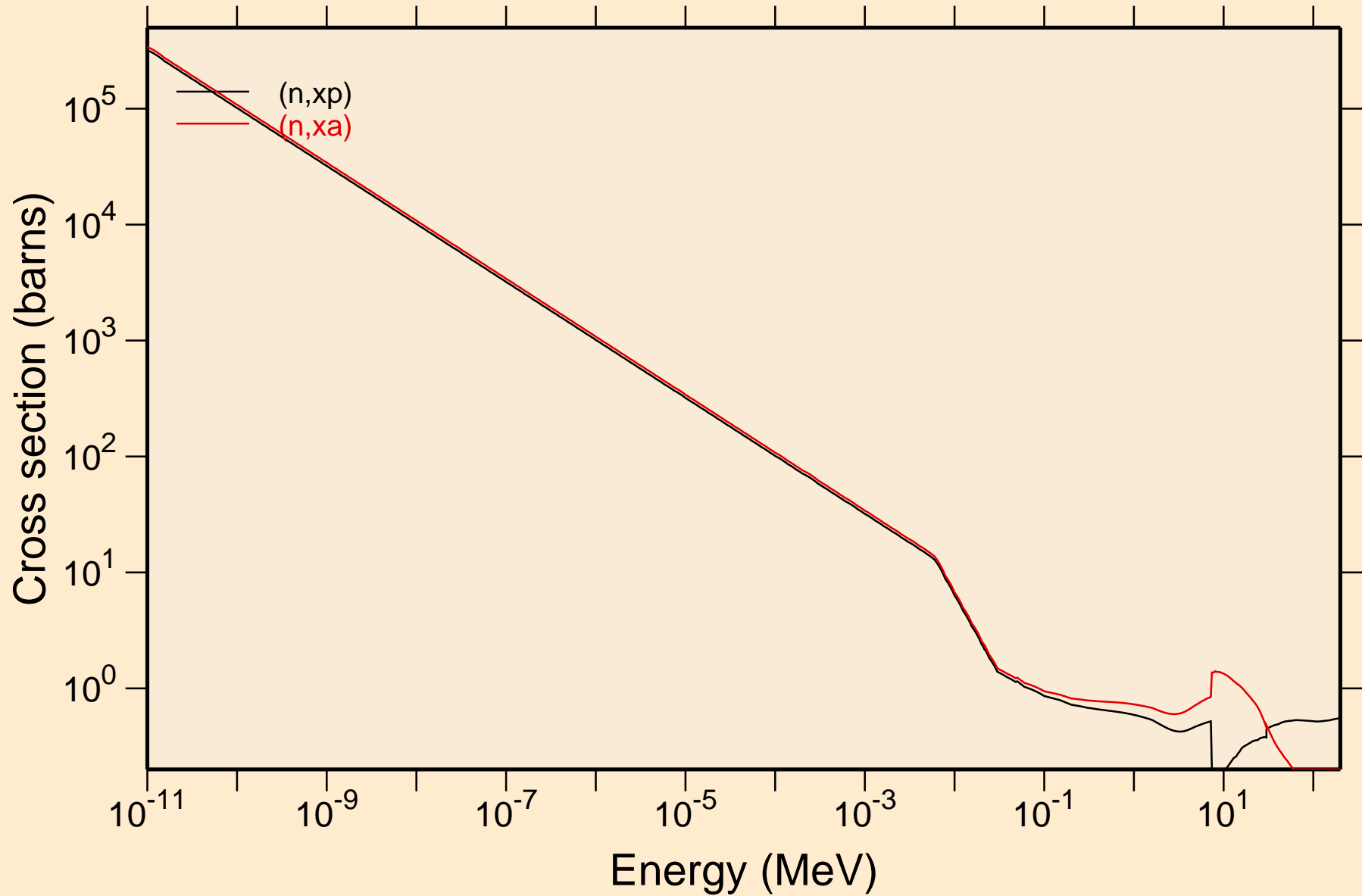
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Damage



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions

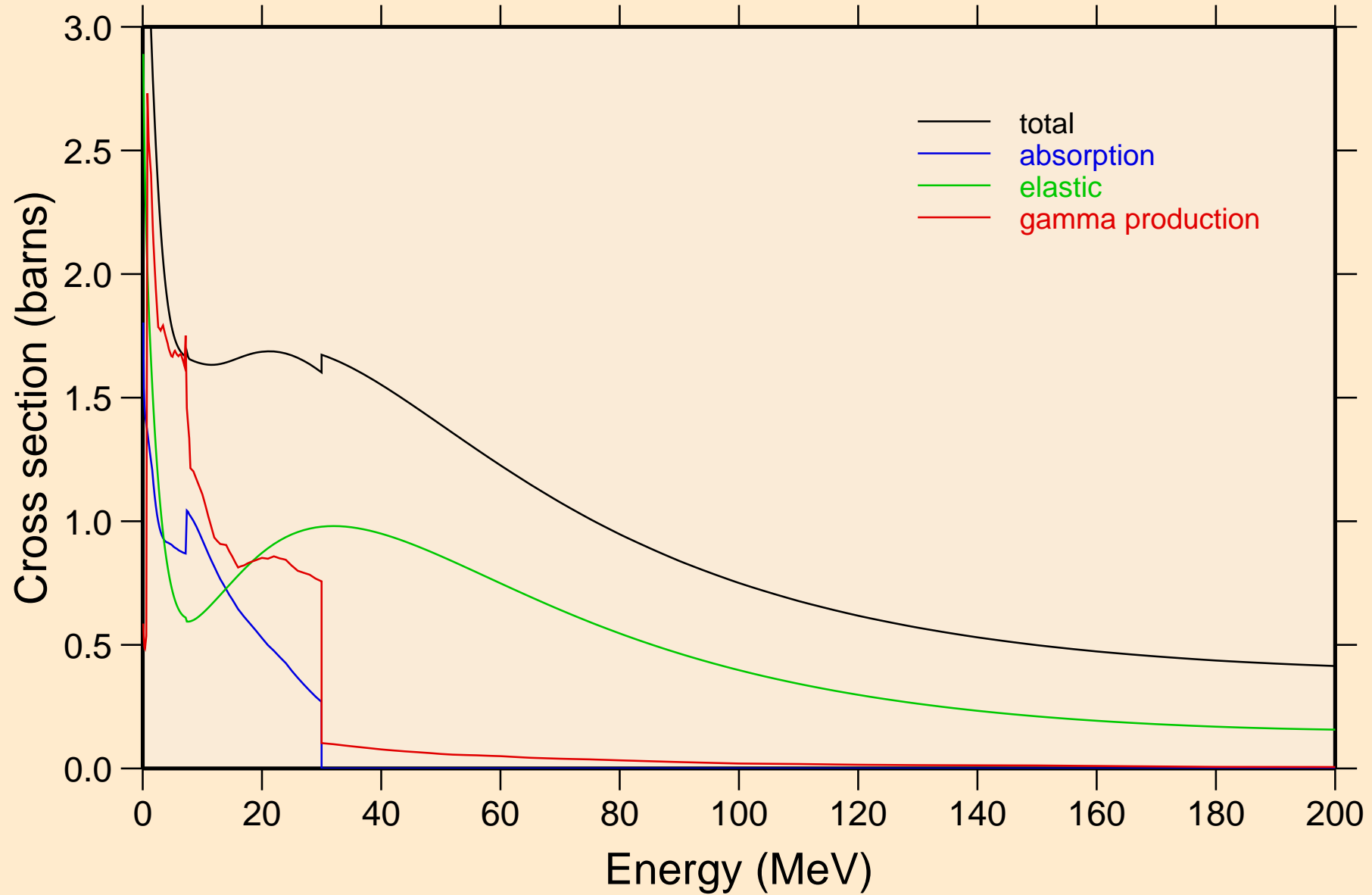


NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



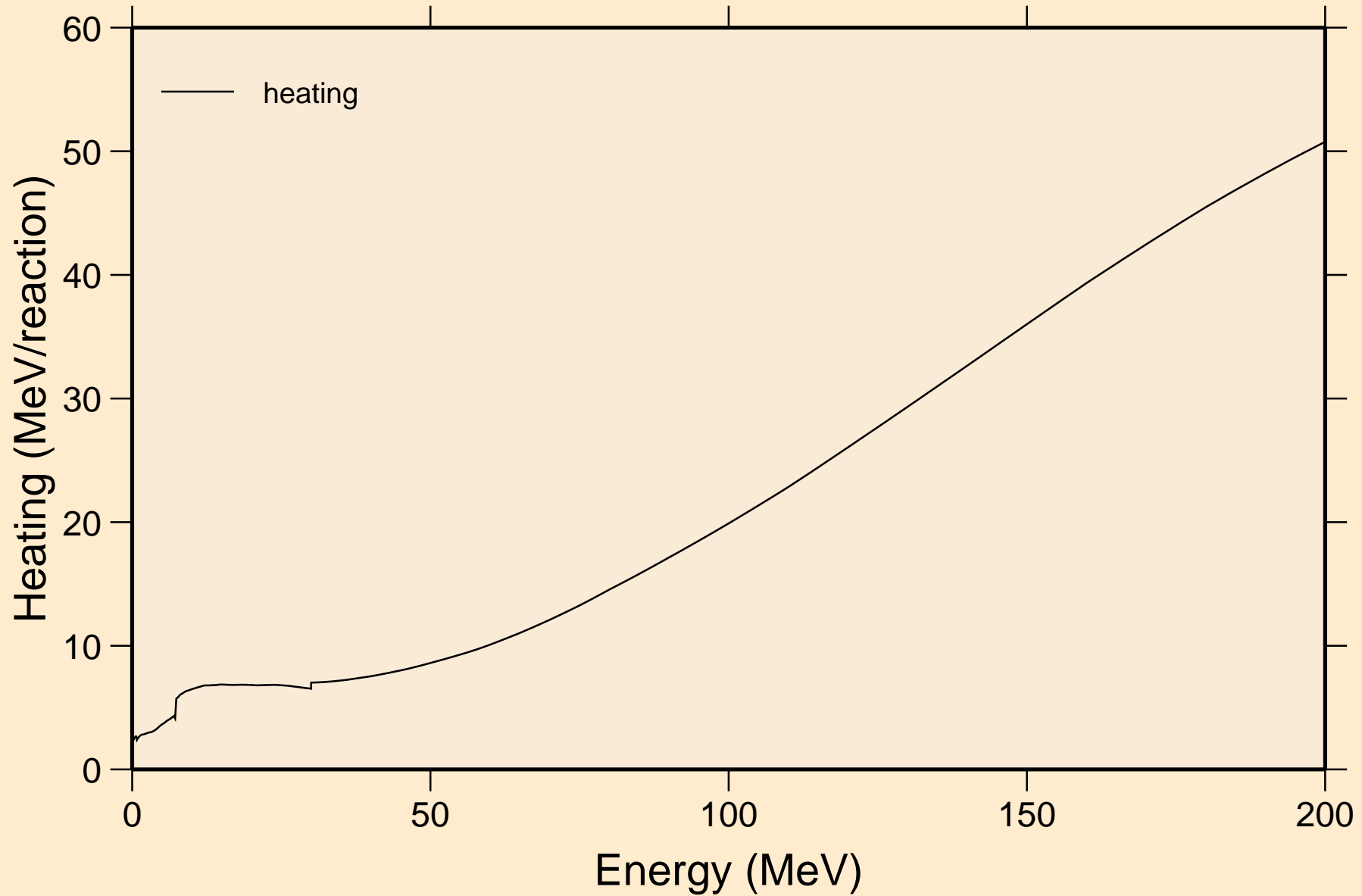
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## Principal cross sections

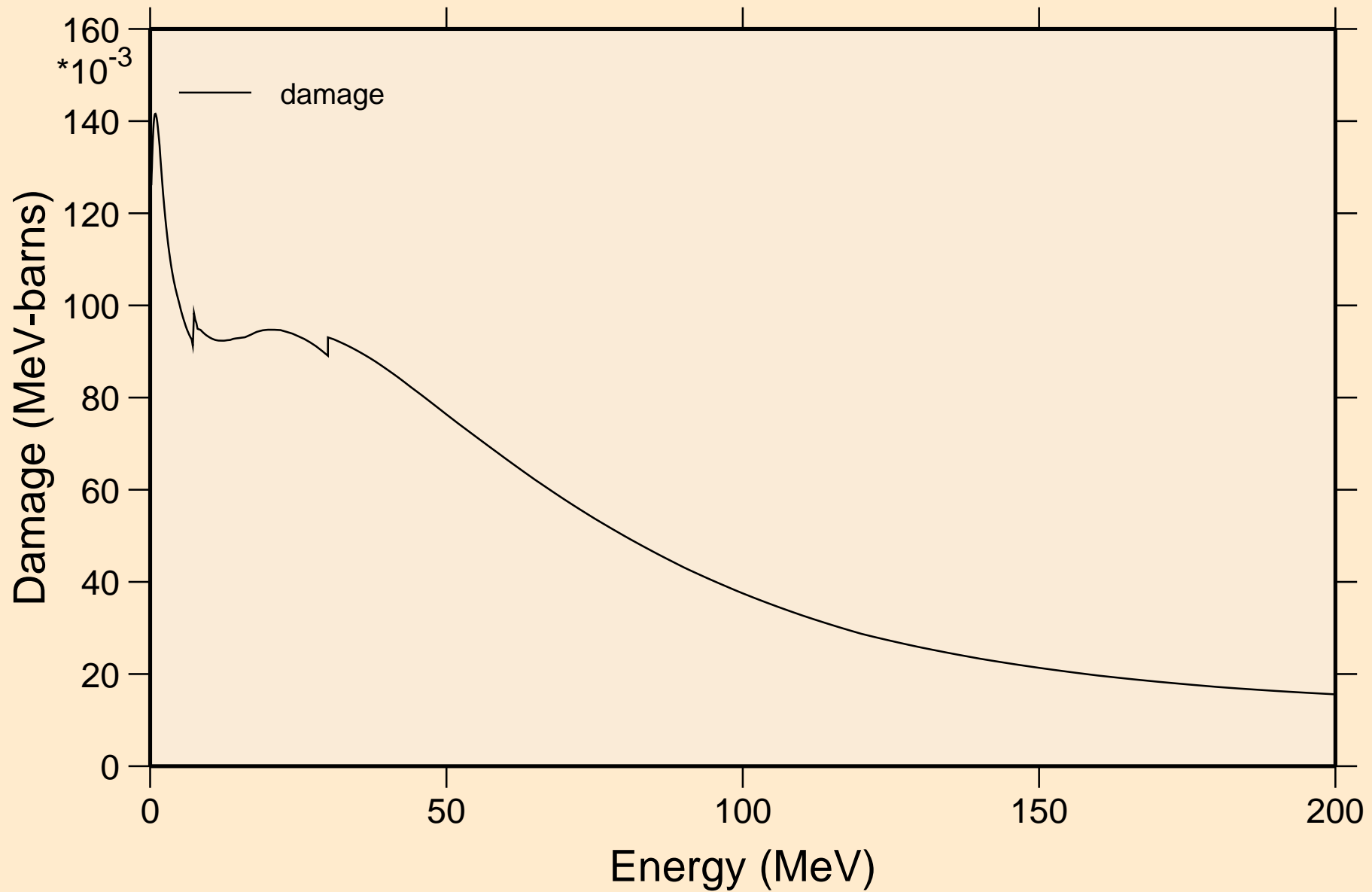


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## Heating



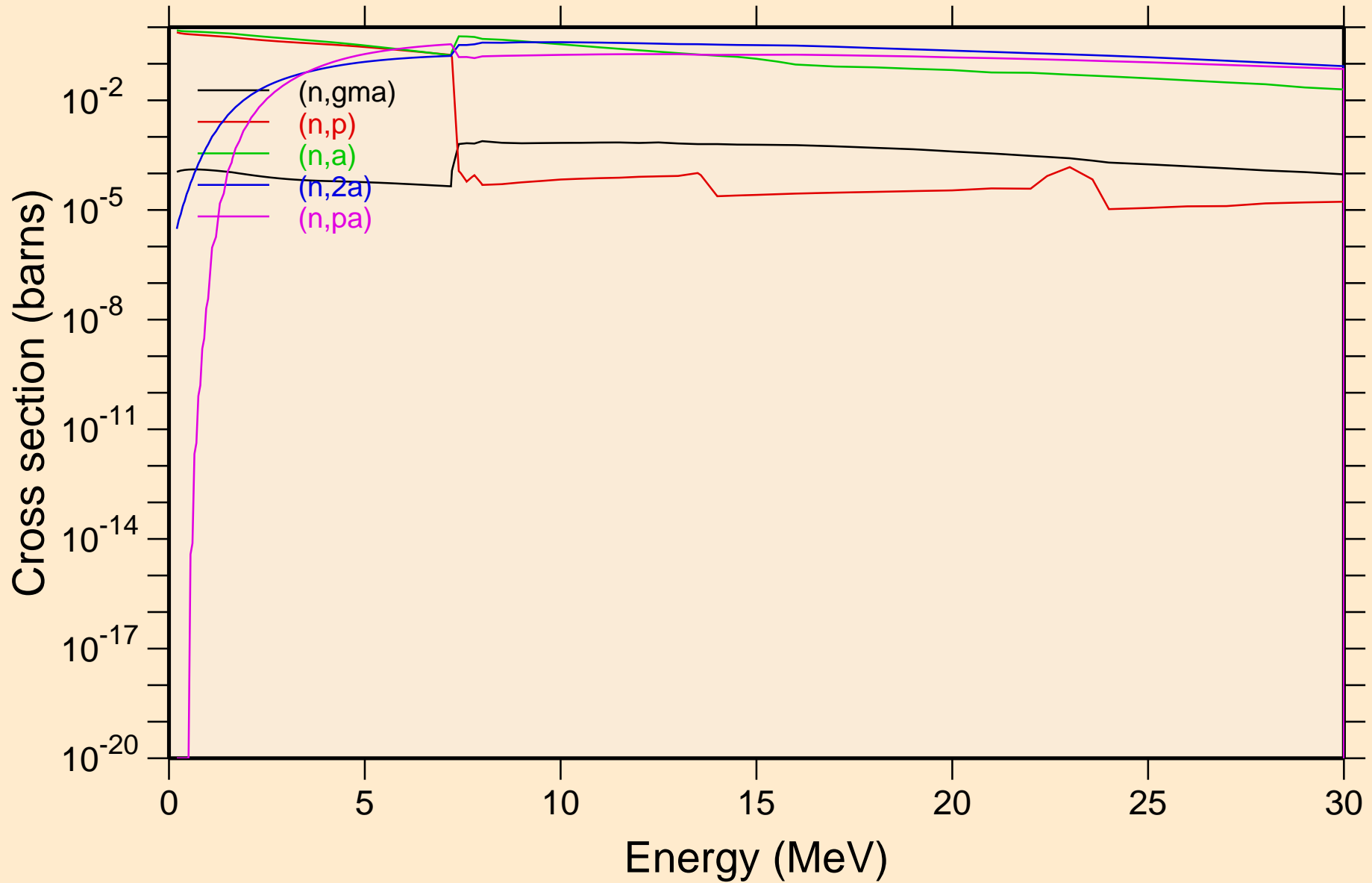
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Damage



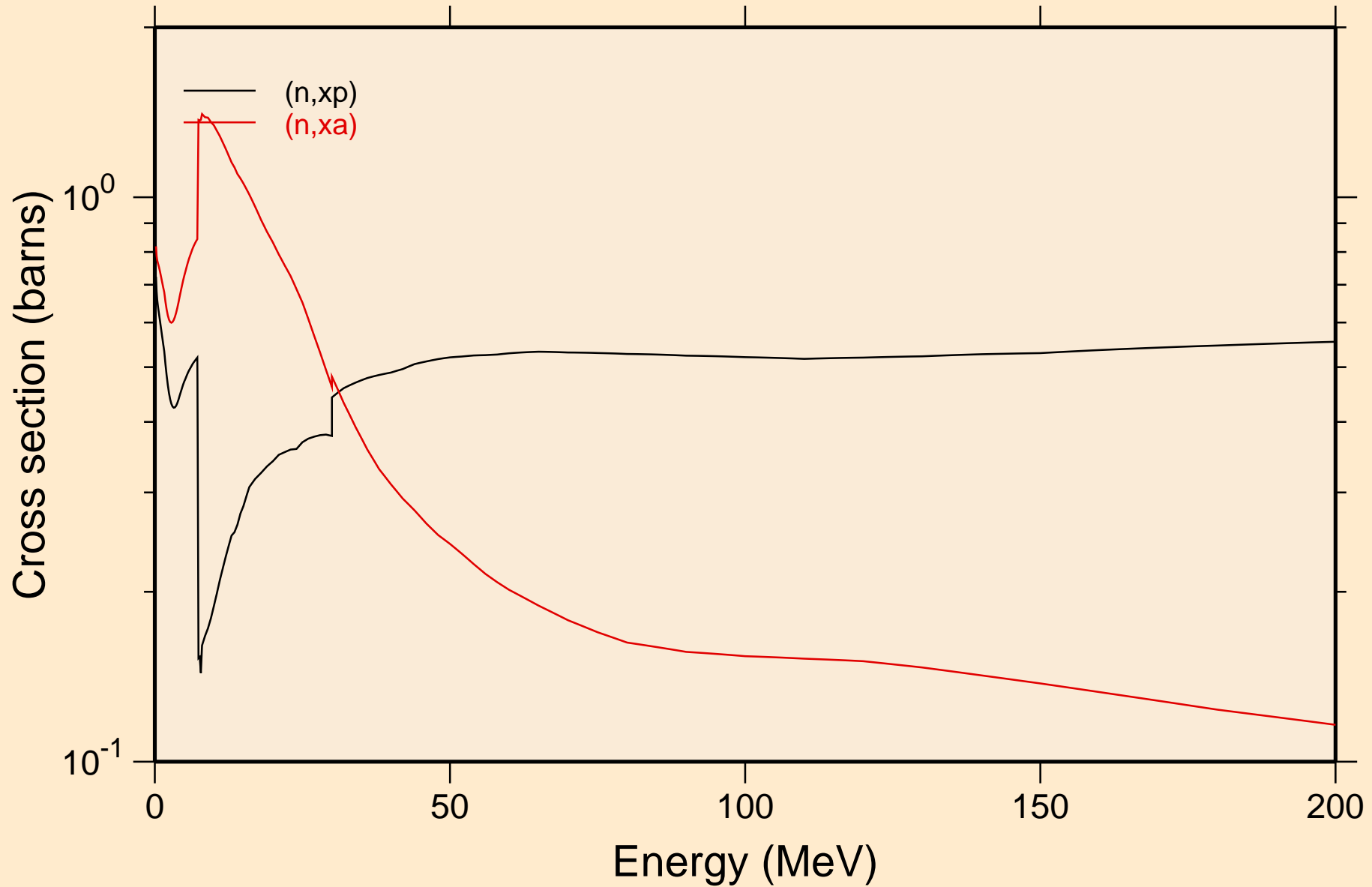


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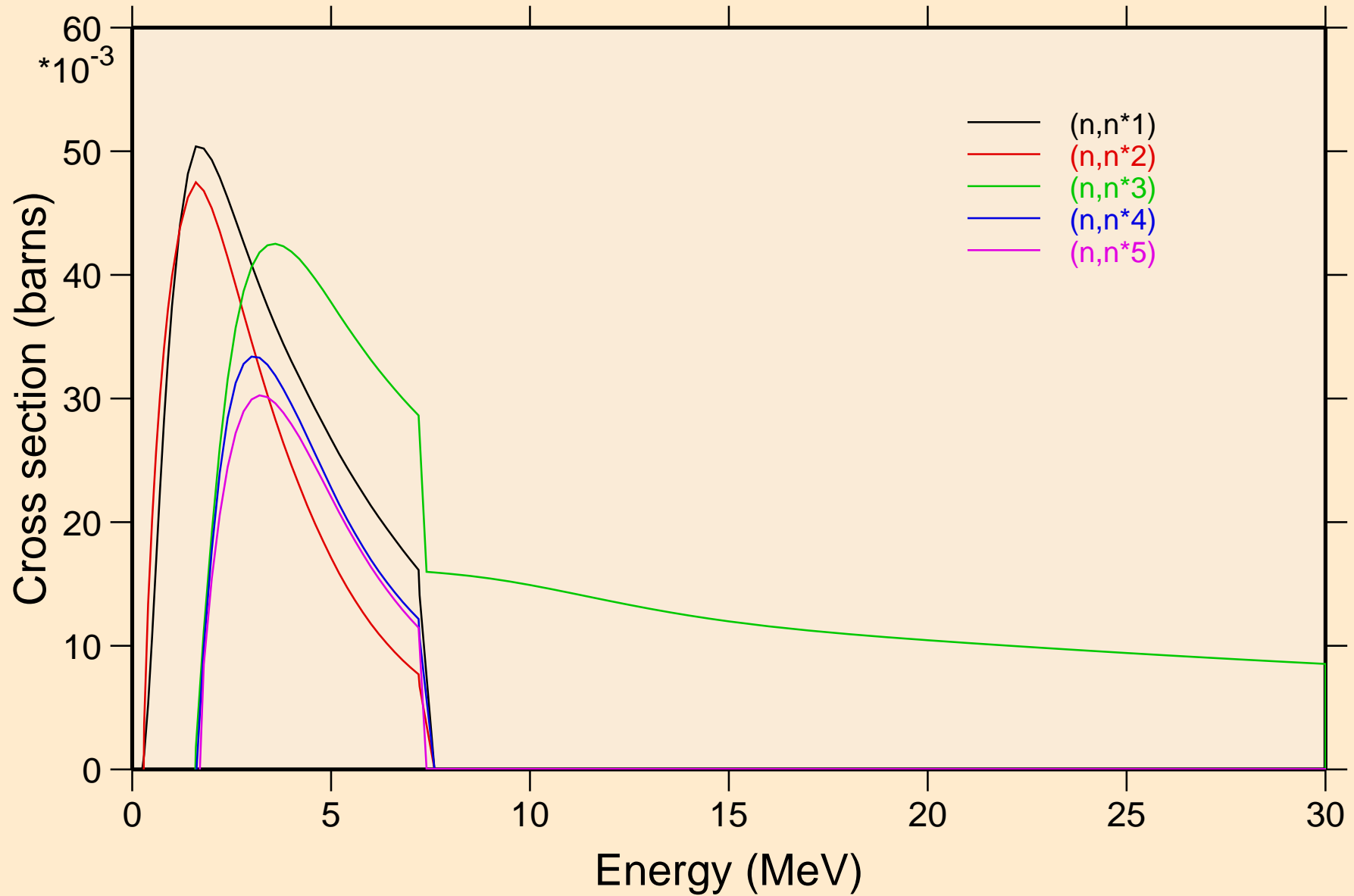
## Non-threshold reactions



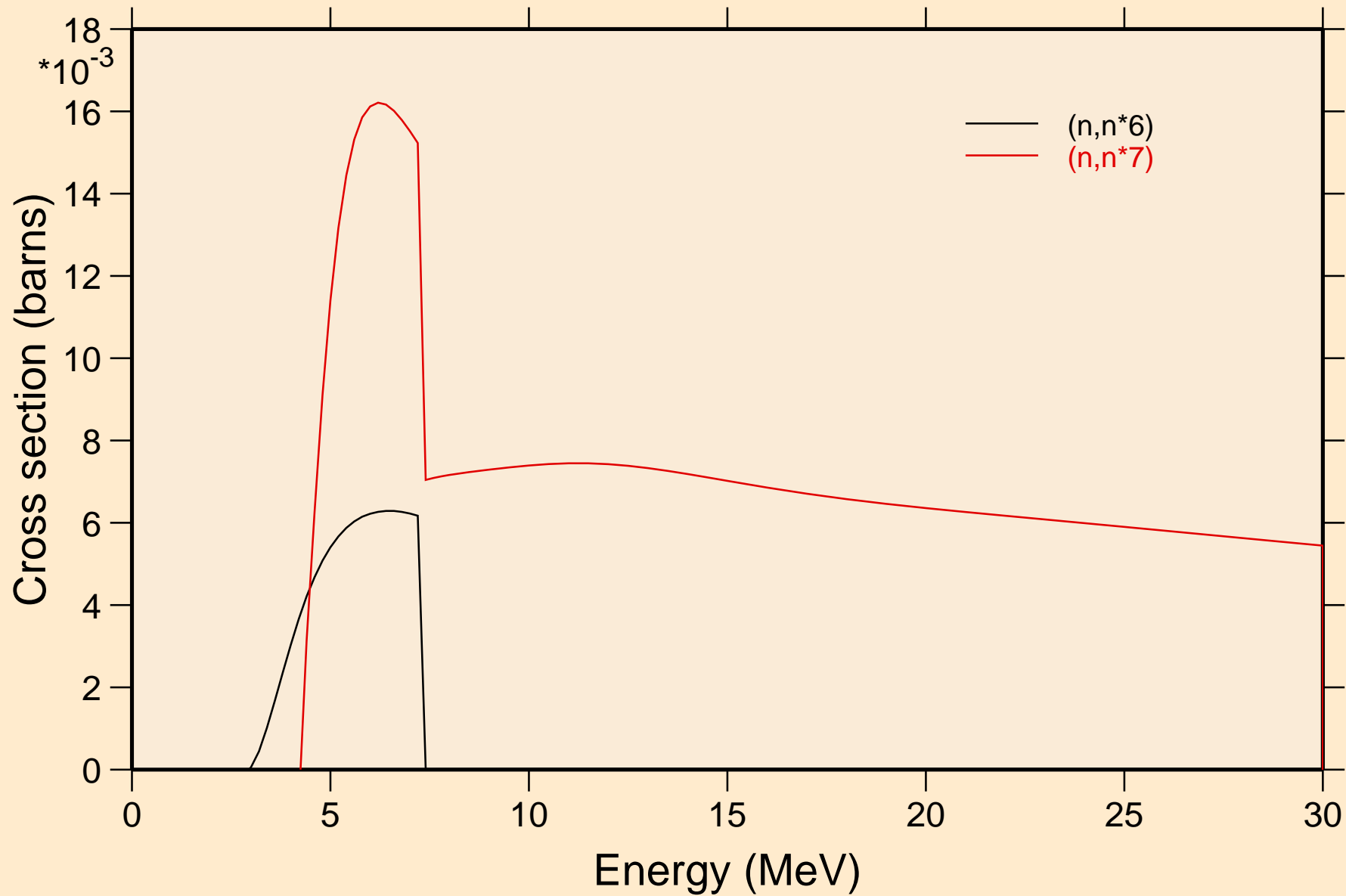
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Non-threshold reactions



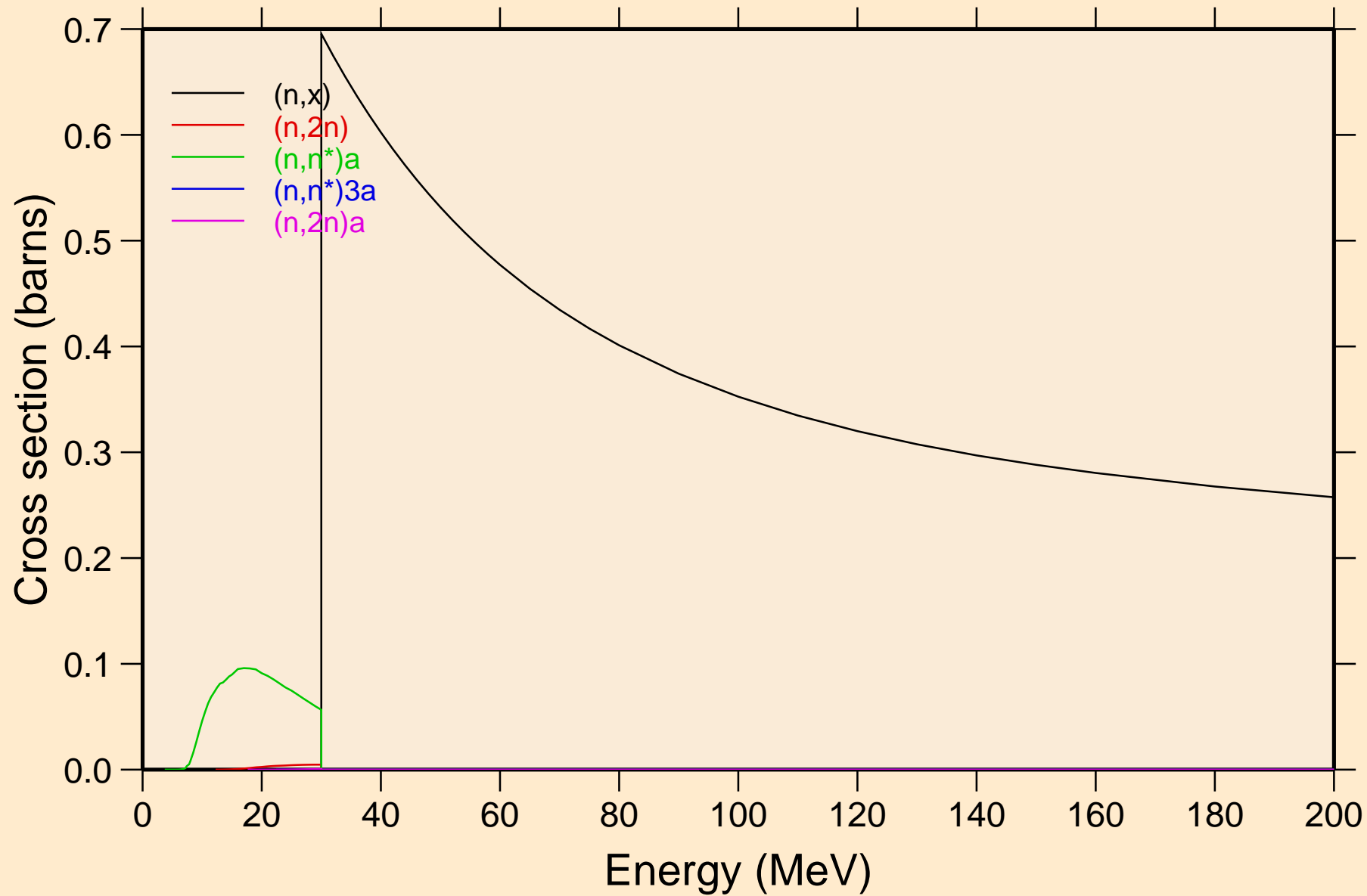
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

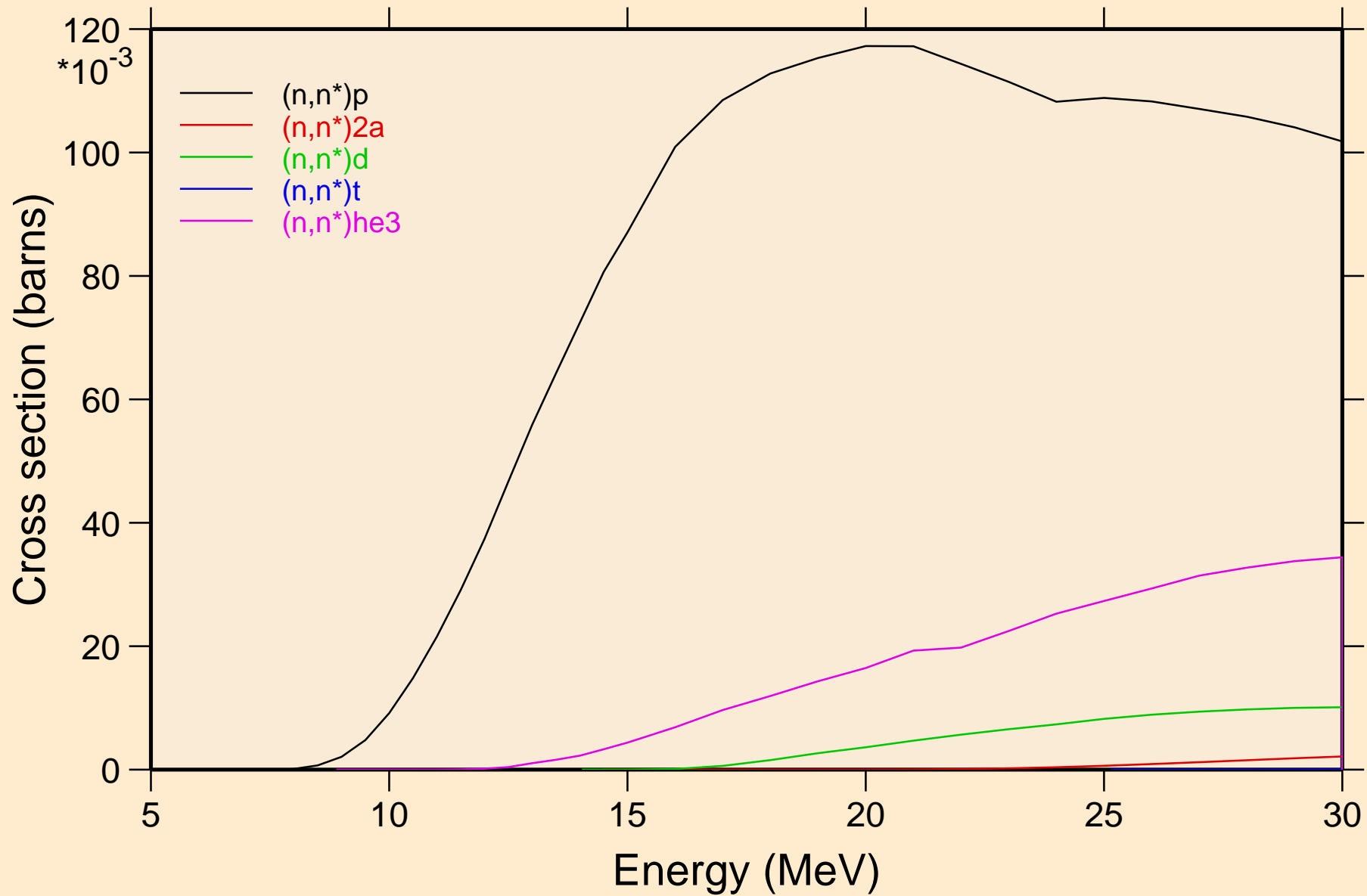


NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



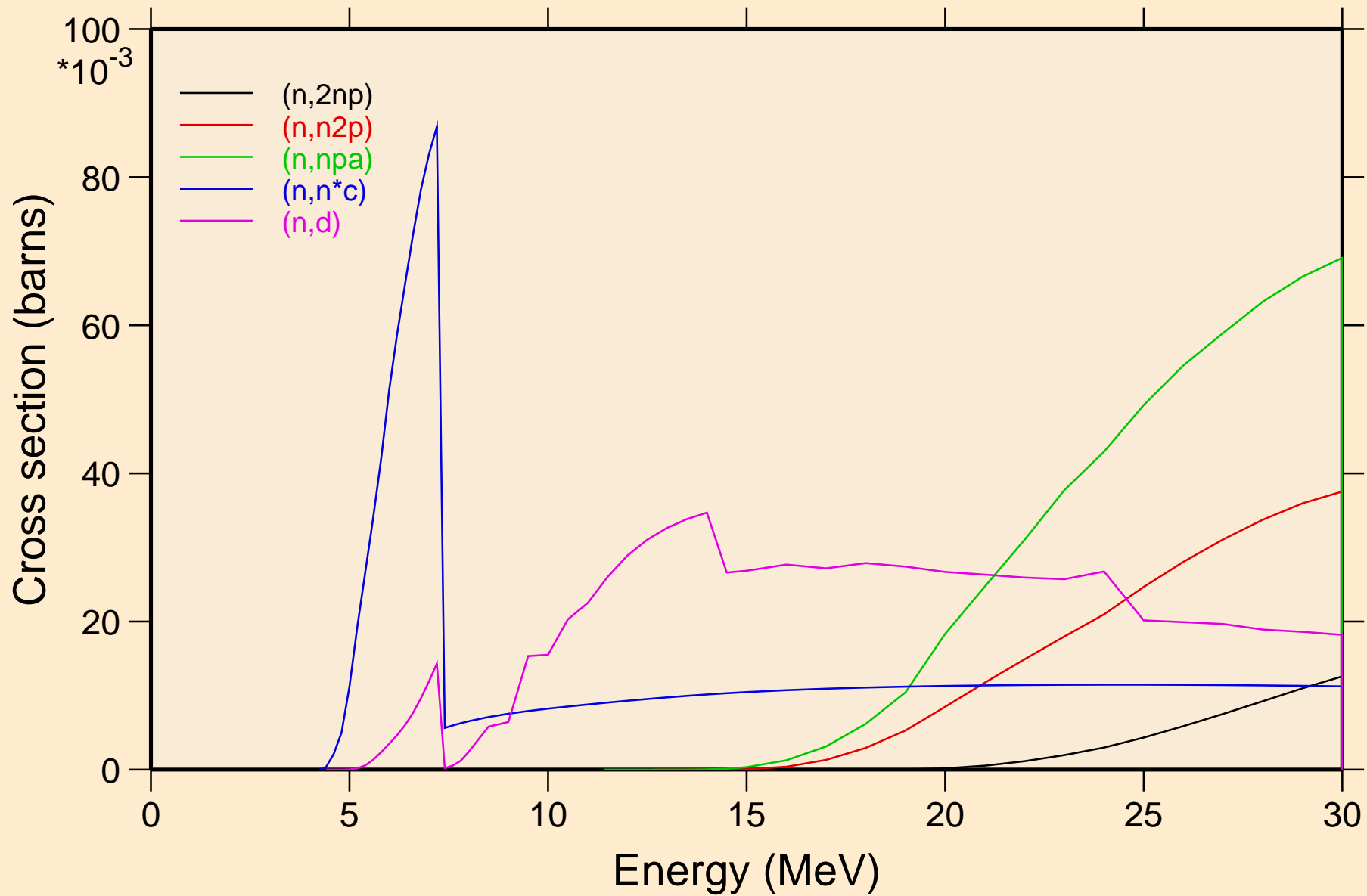
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## Threshold reactions



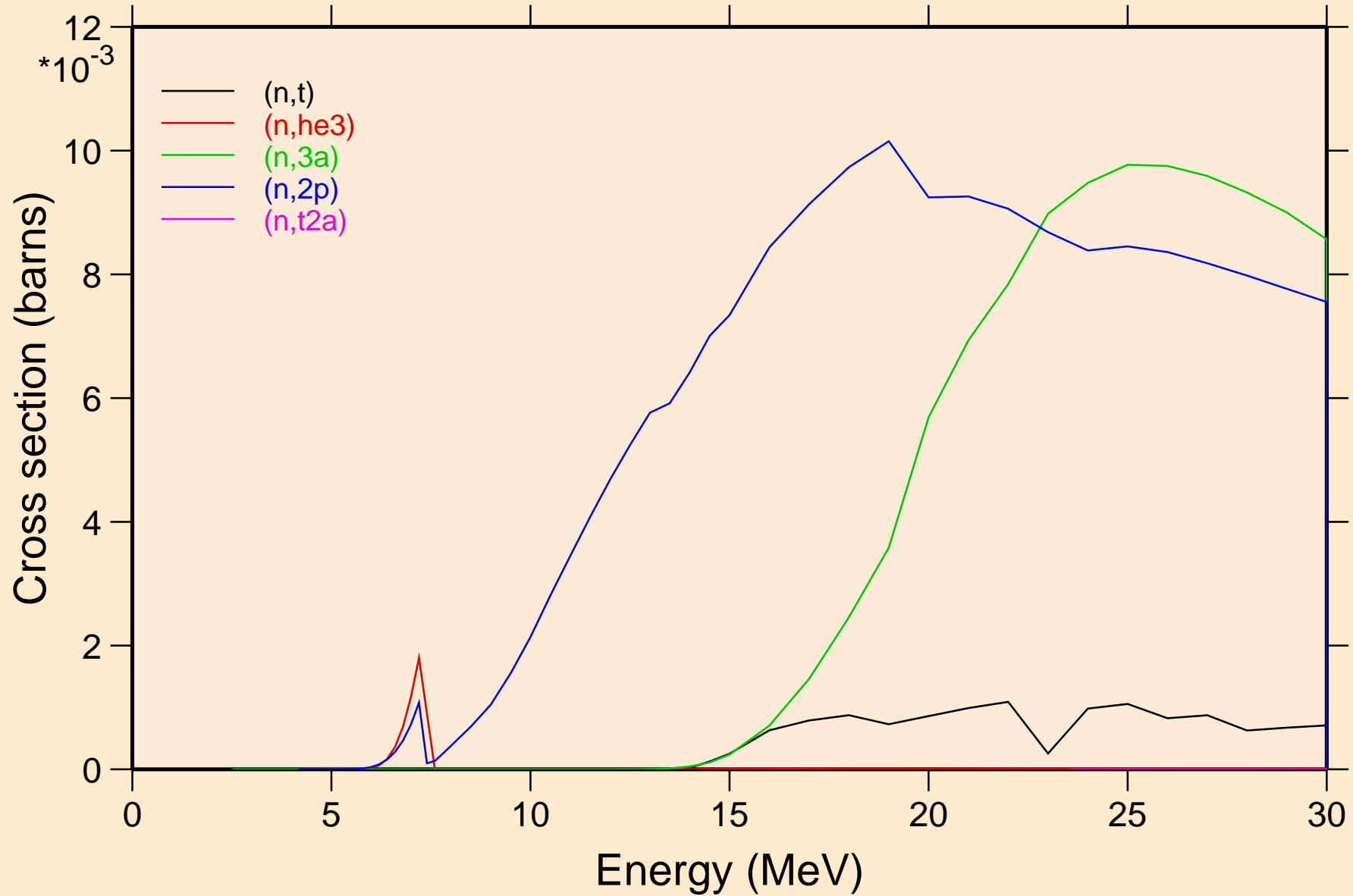
# NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions



# NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

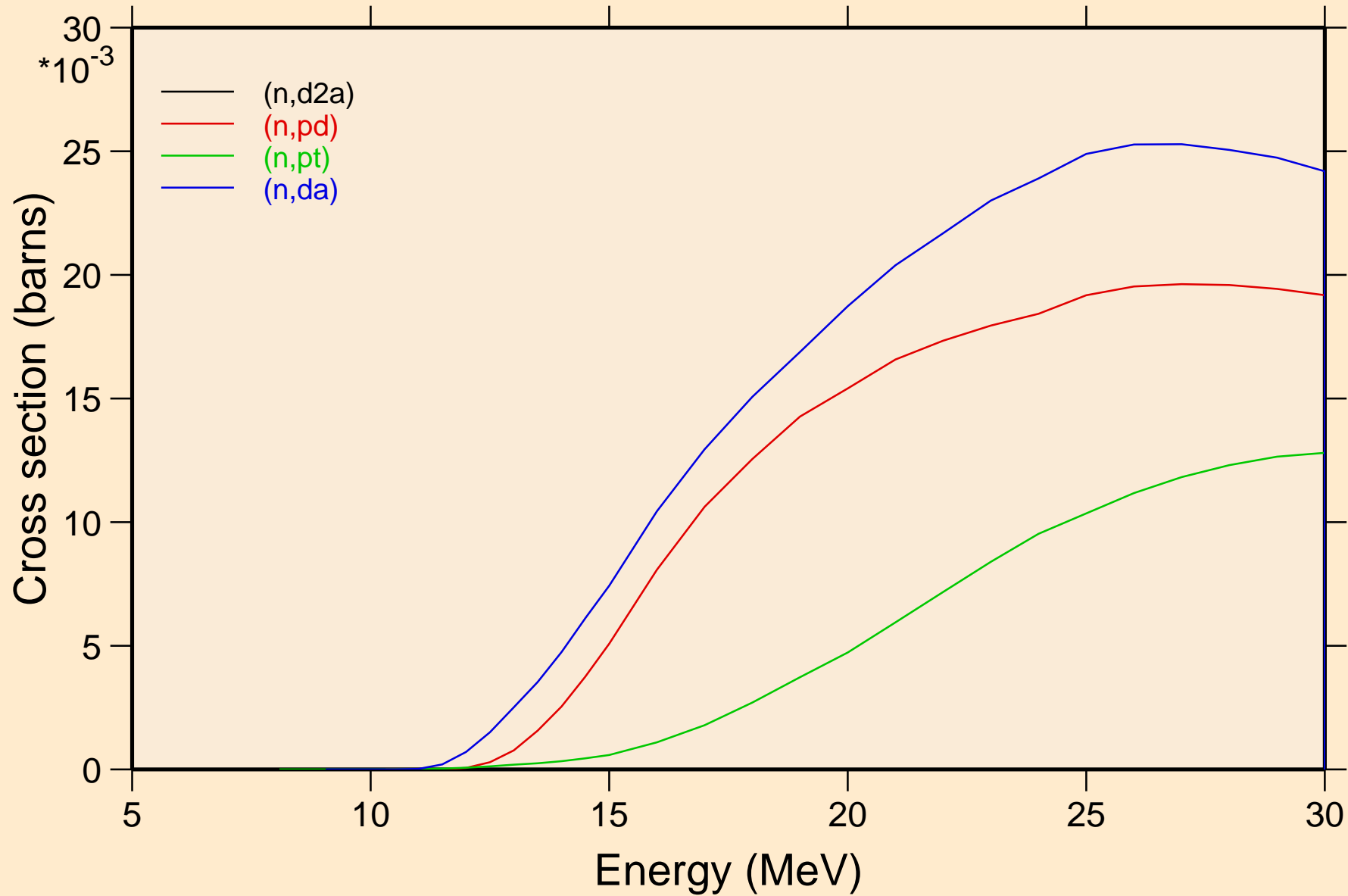
## Threshold reactions





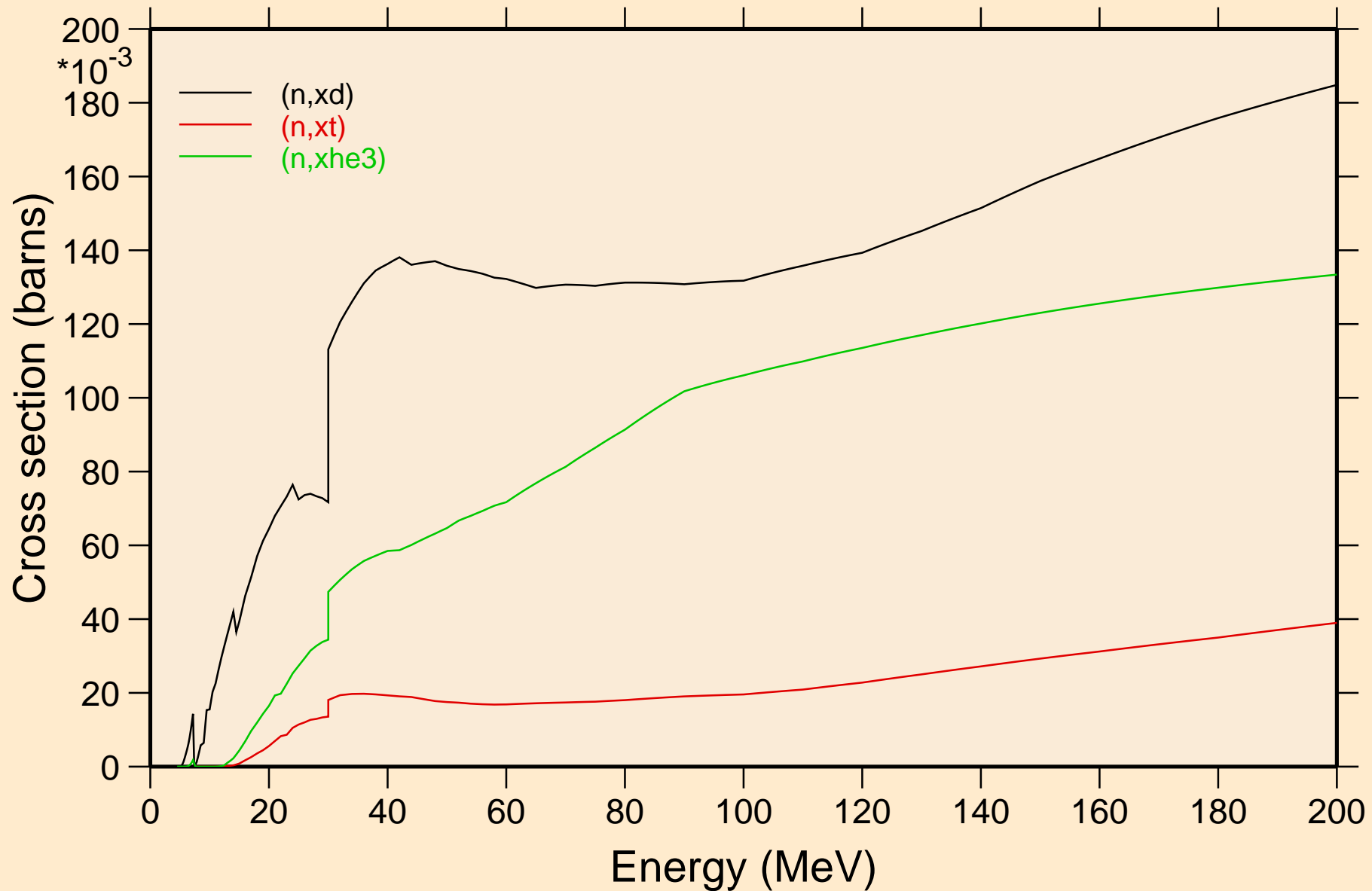
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## Threshold reactions

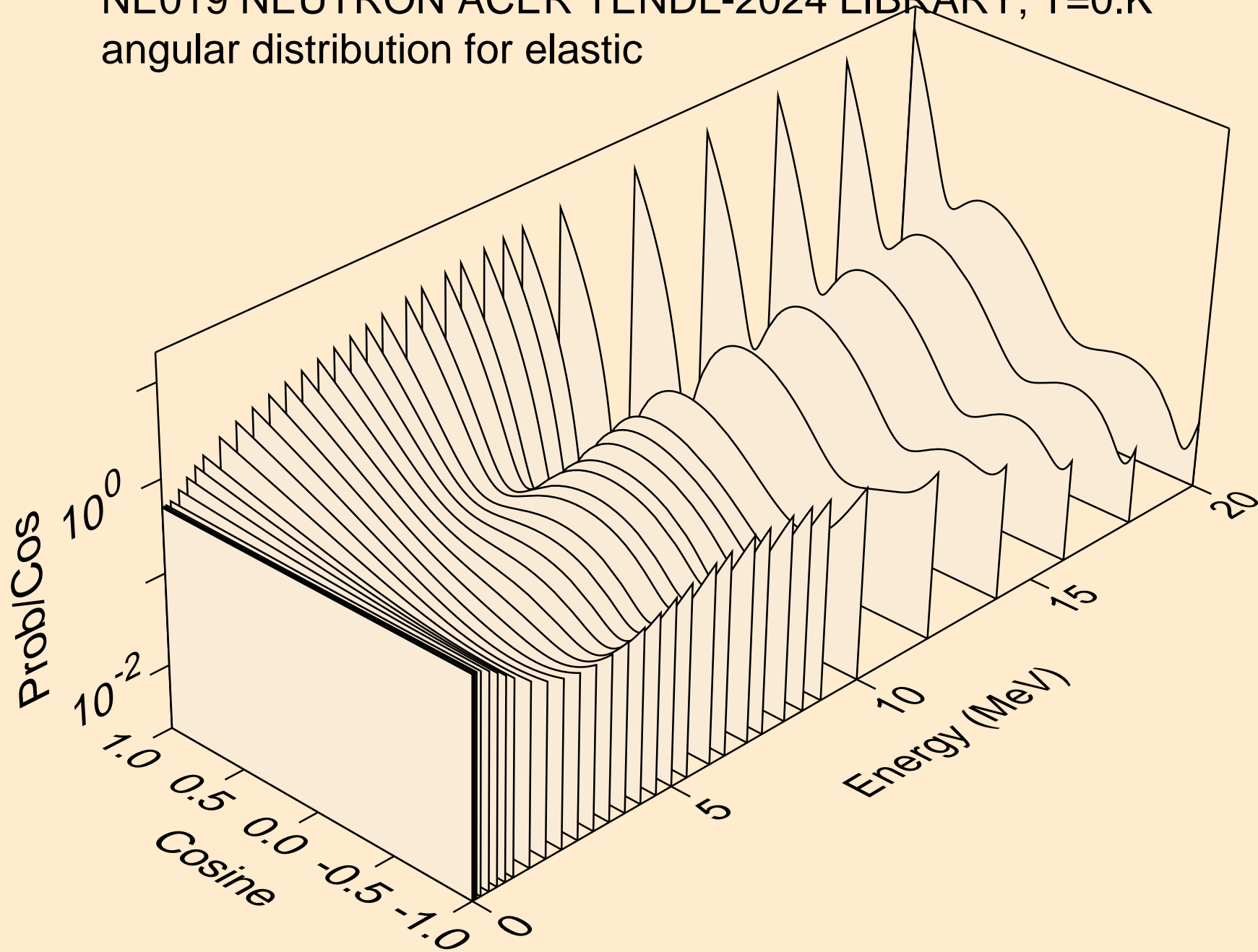


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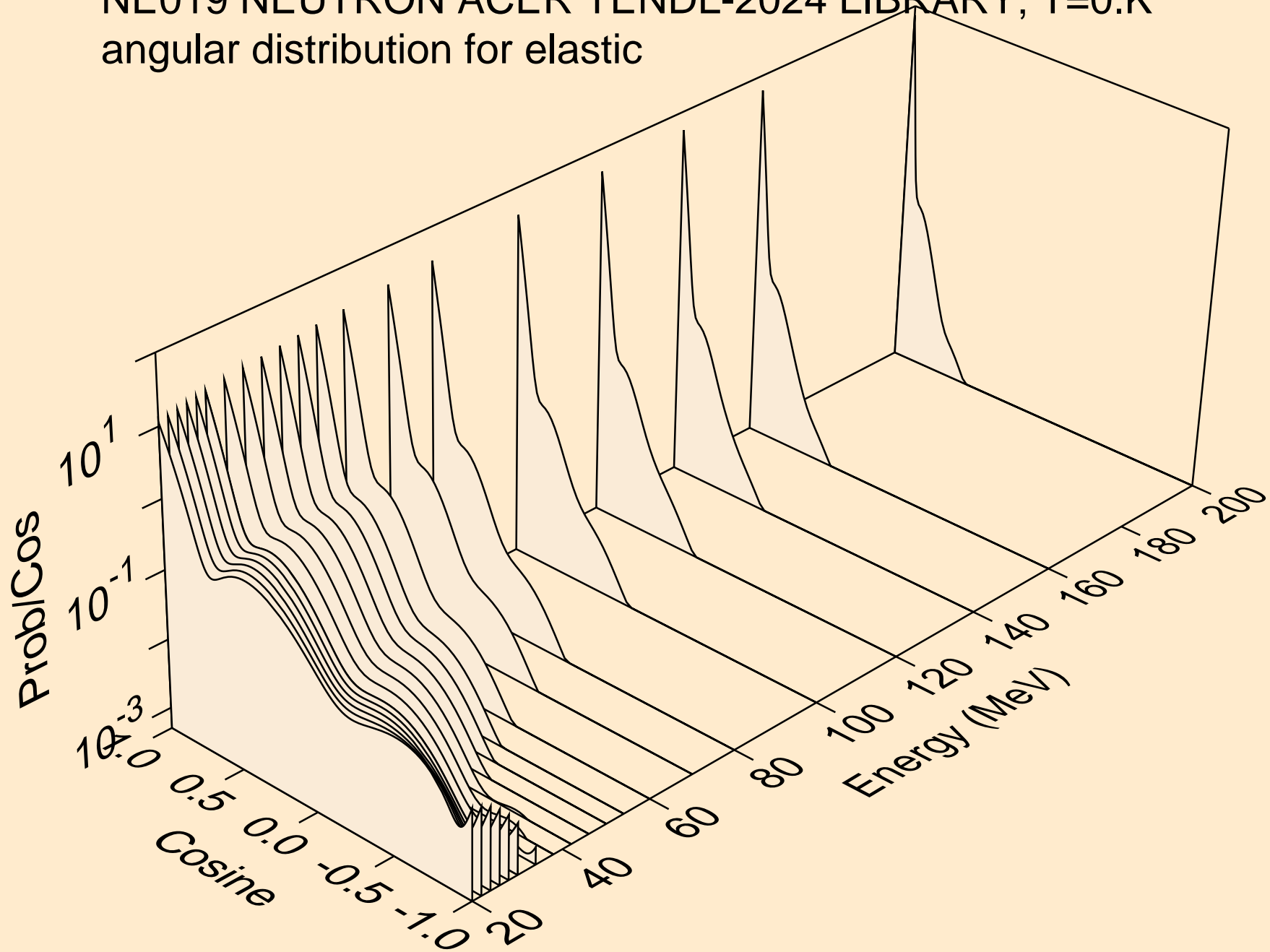
## Threshold reactions



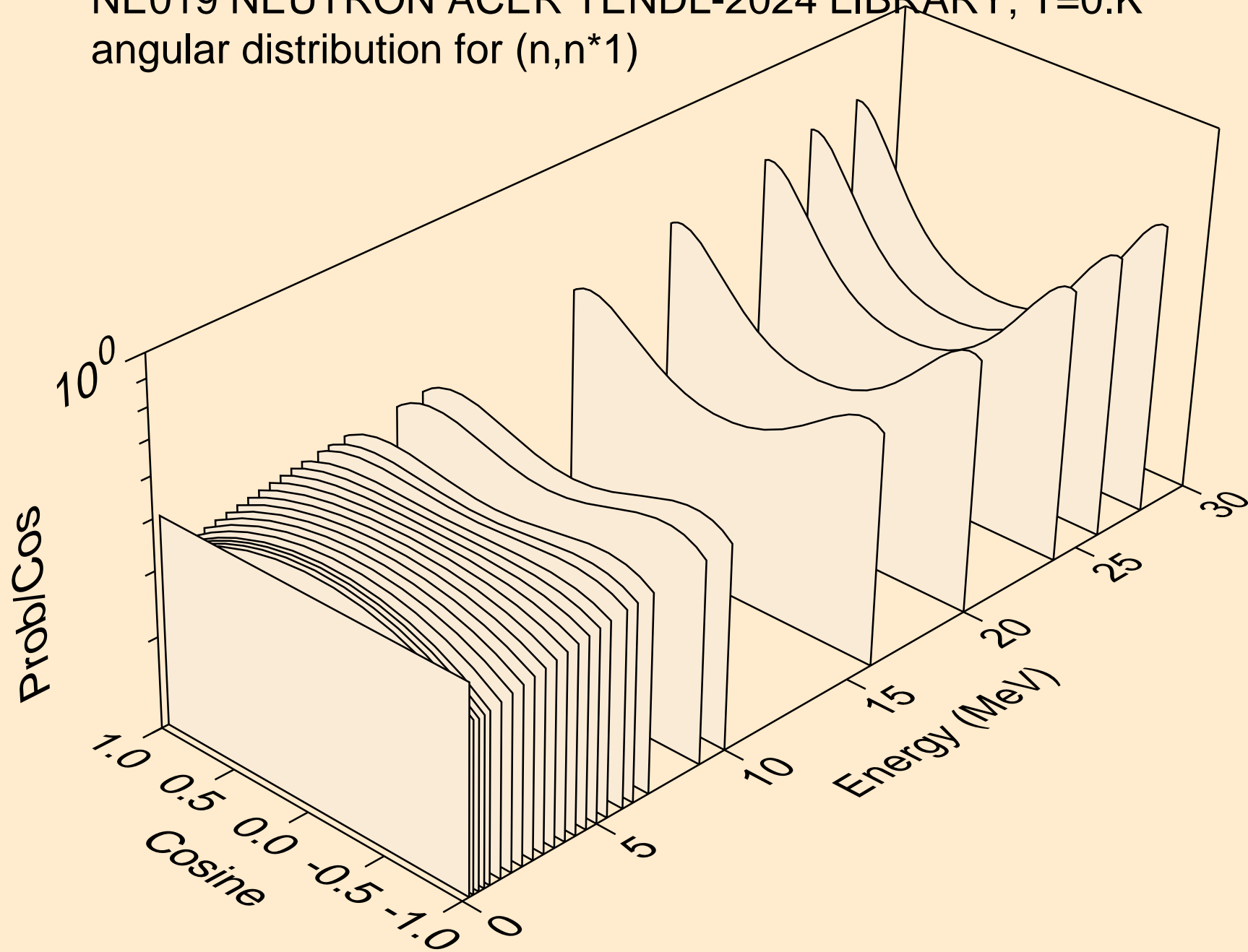
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



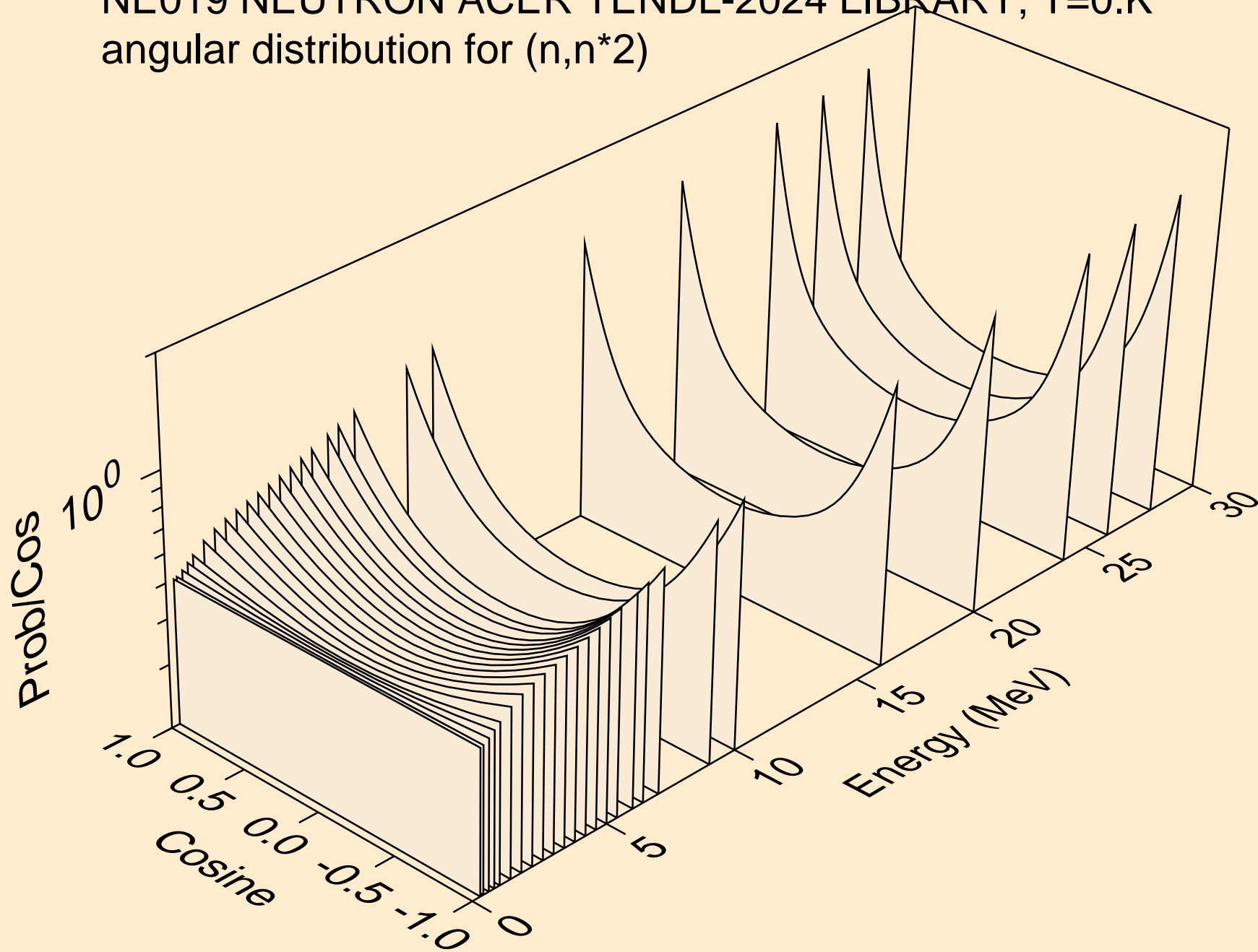
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angular distribution for elastic



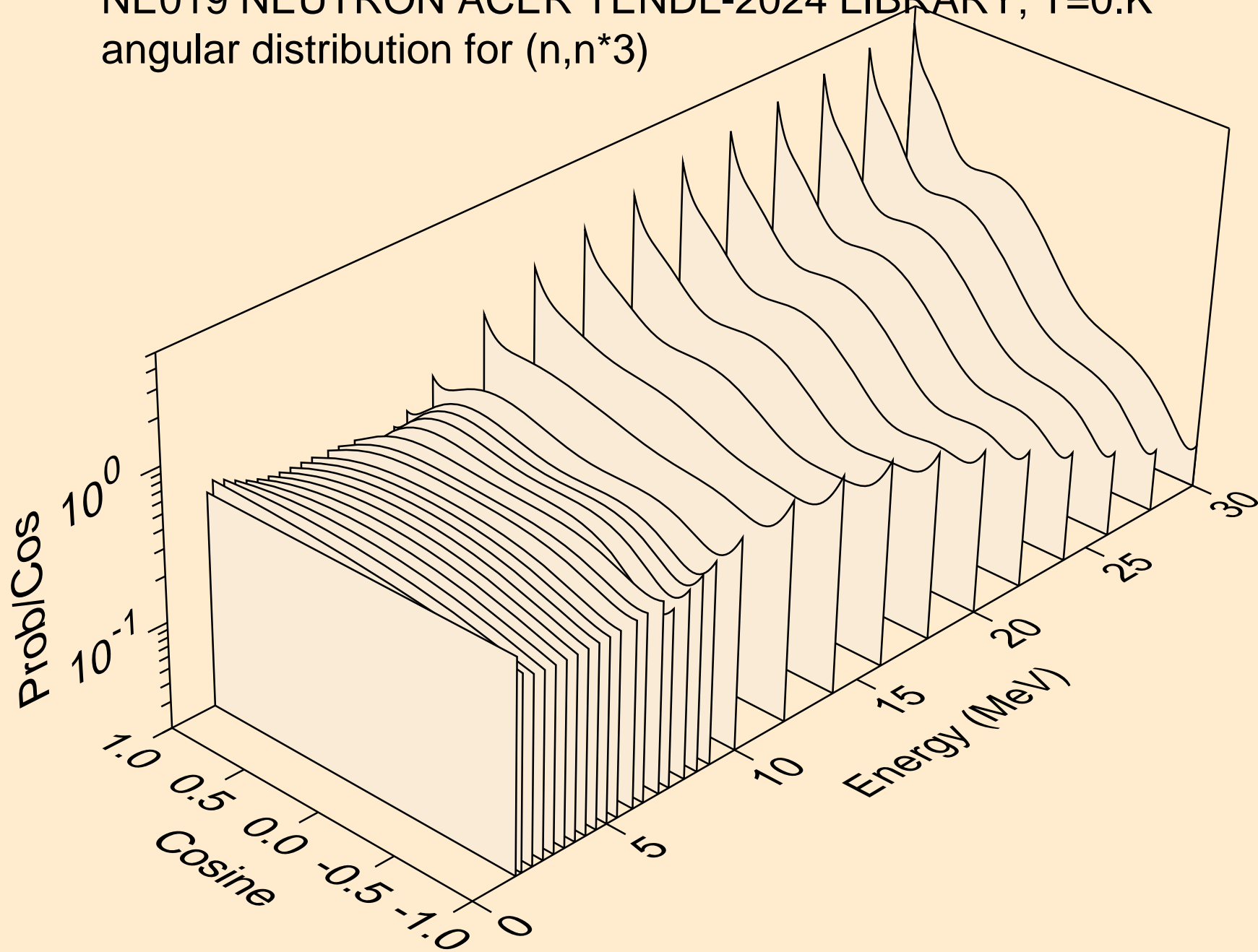
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



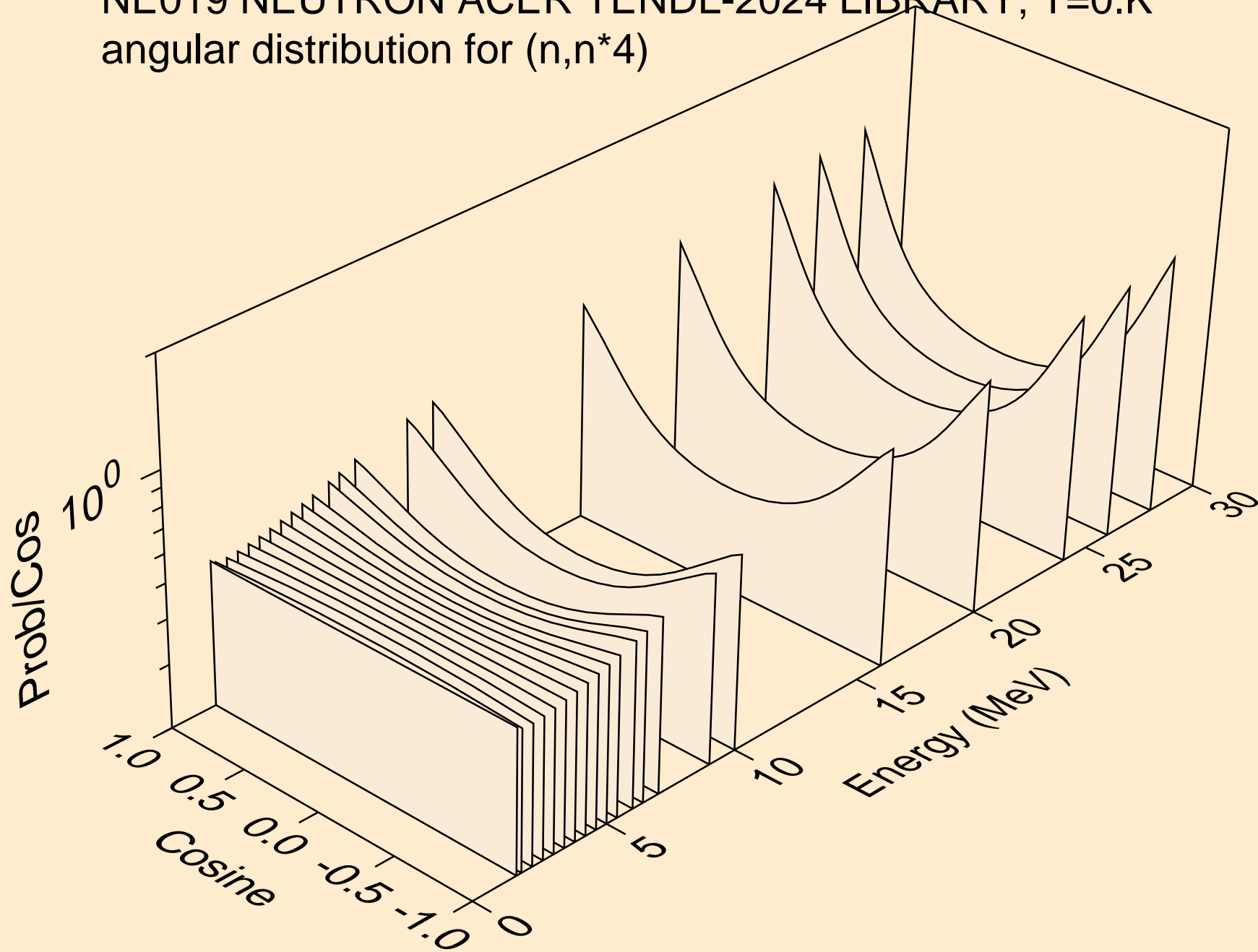
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*3)

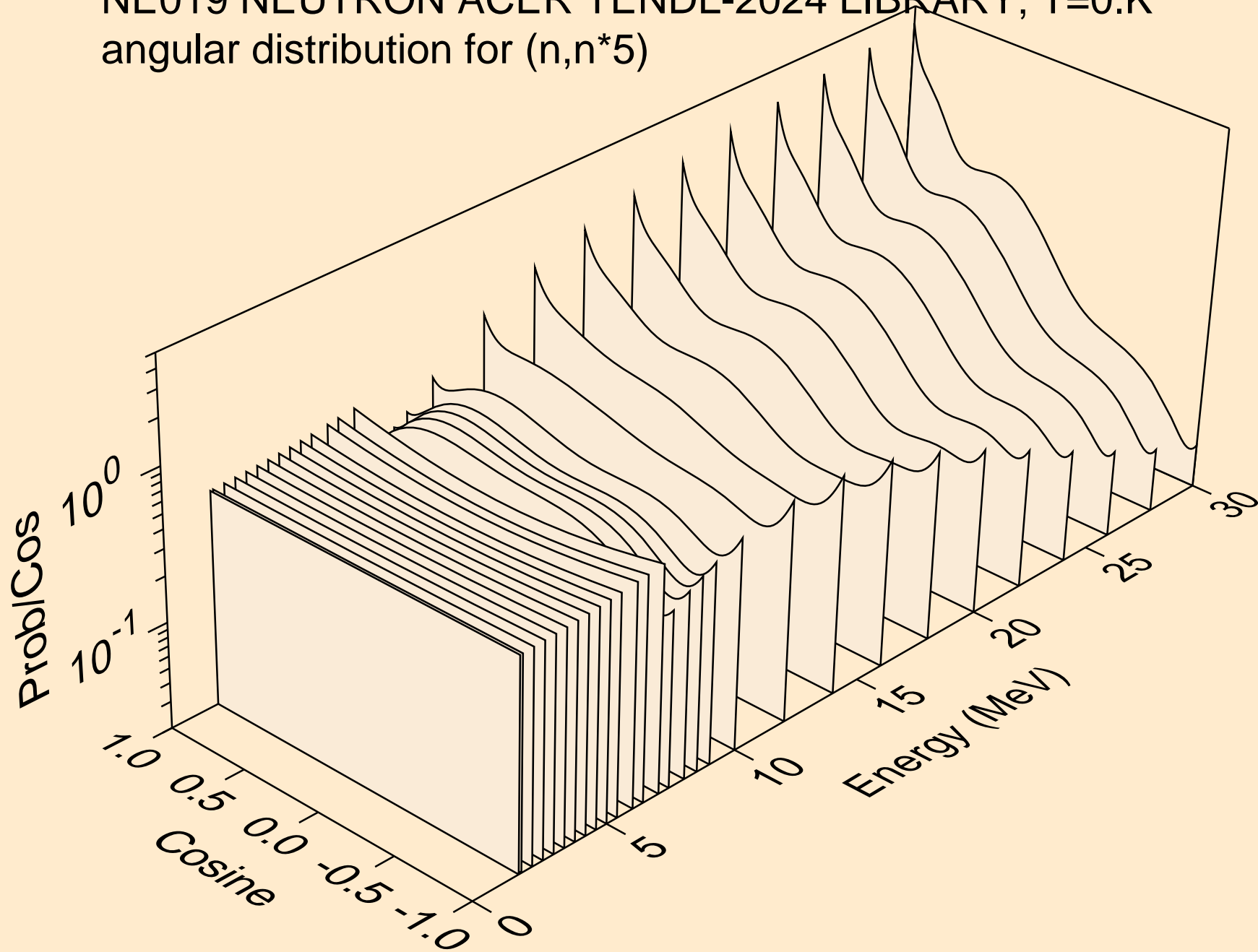


NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*4)

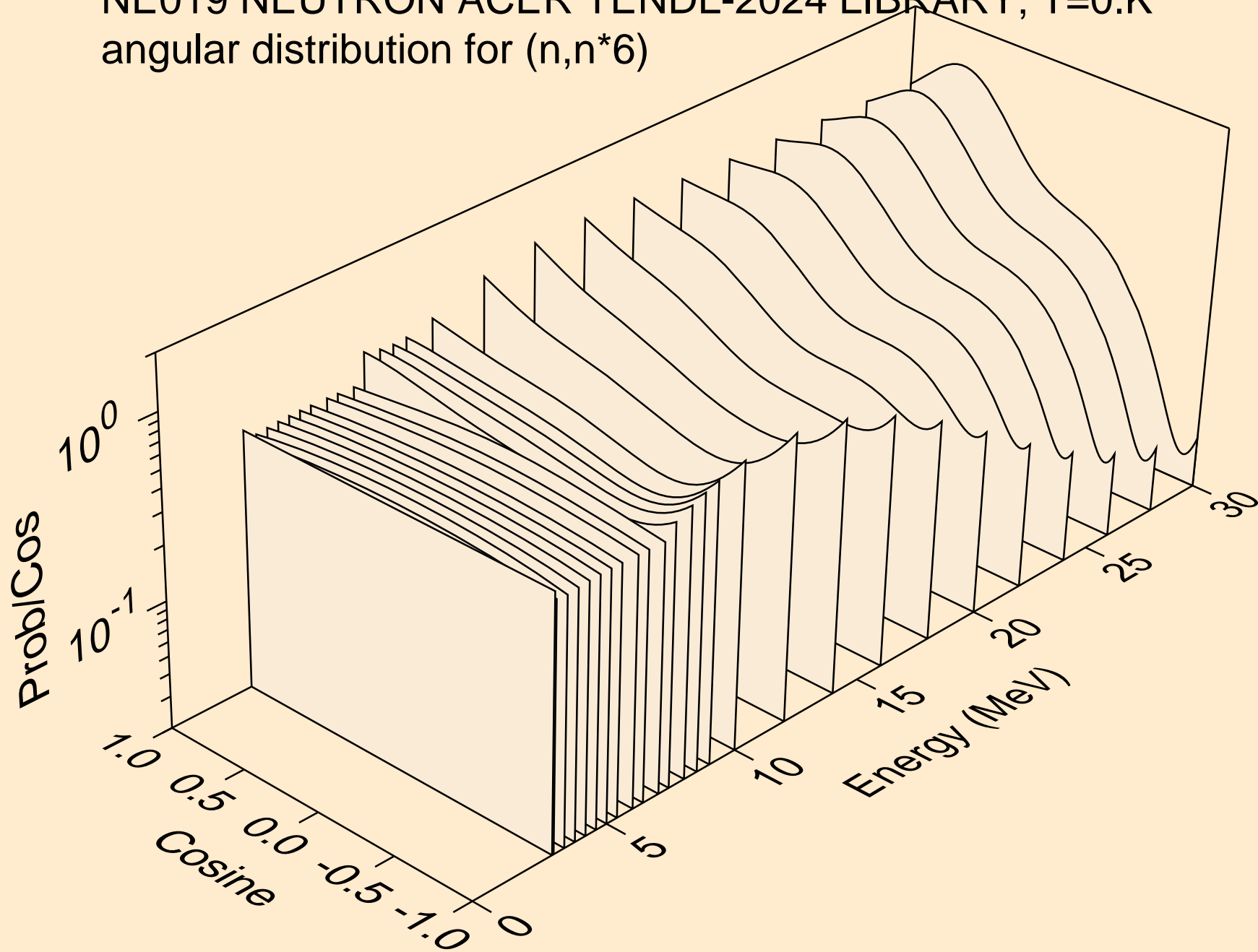




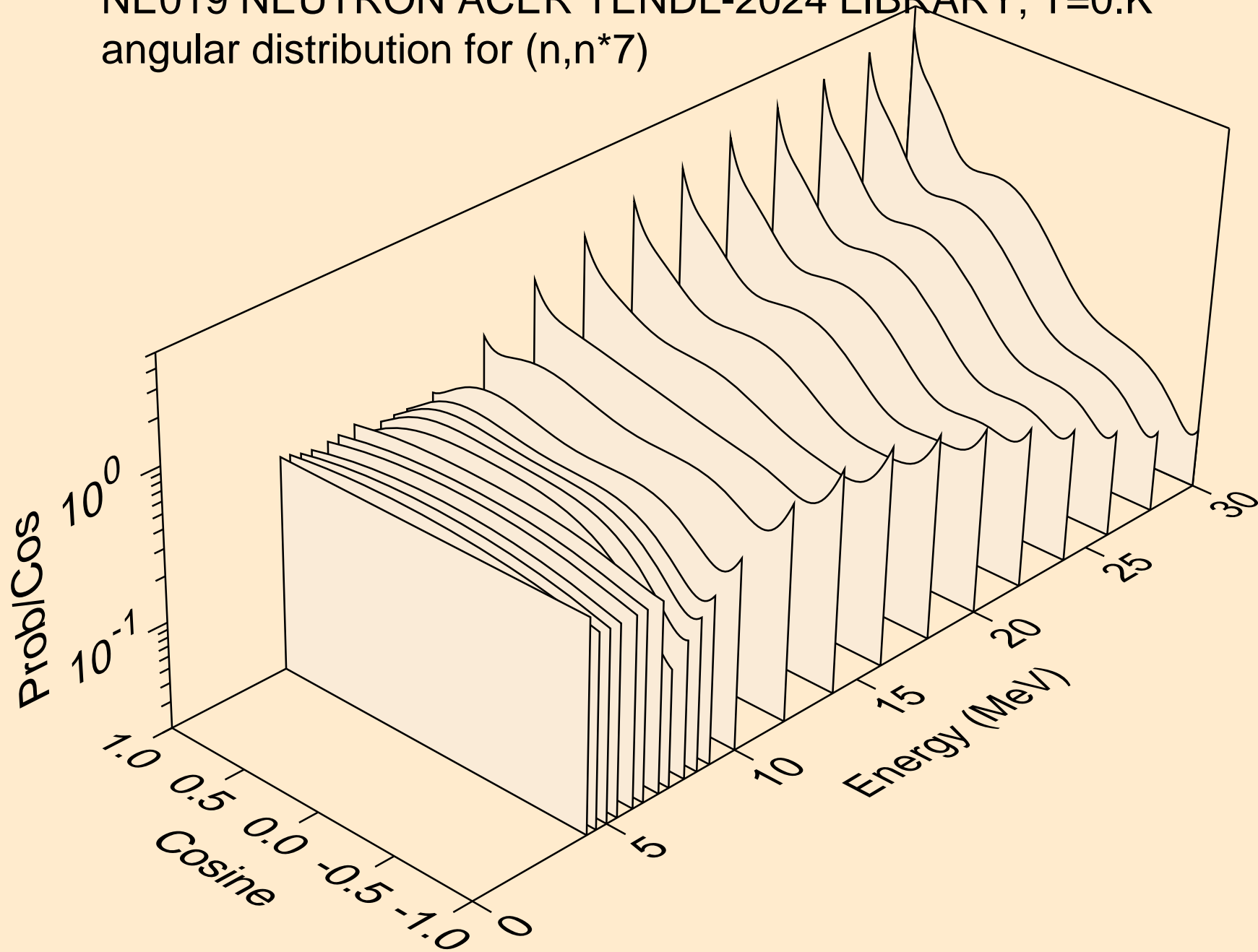
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angular distribution for (n,n\*5)



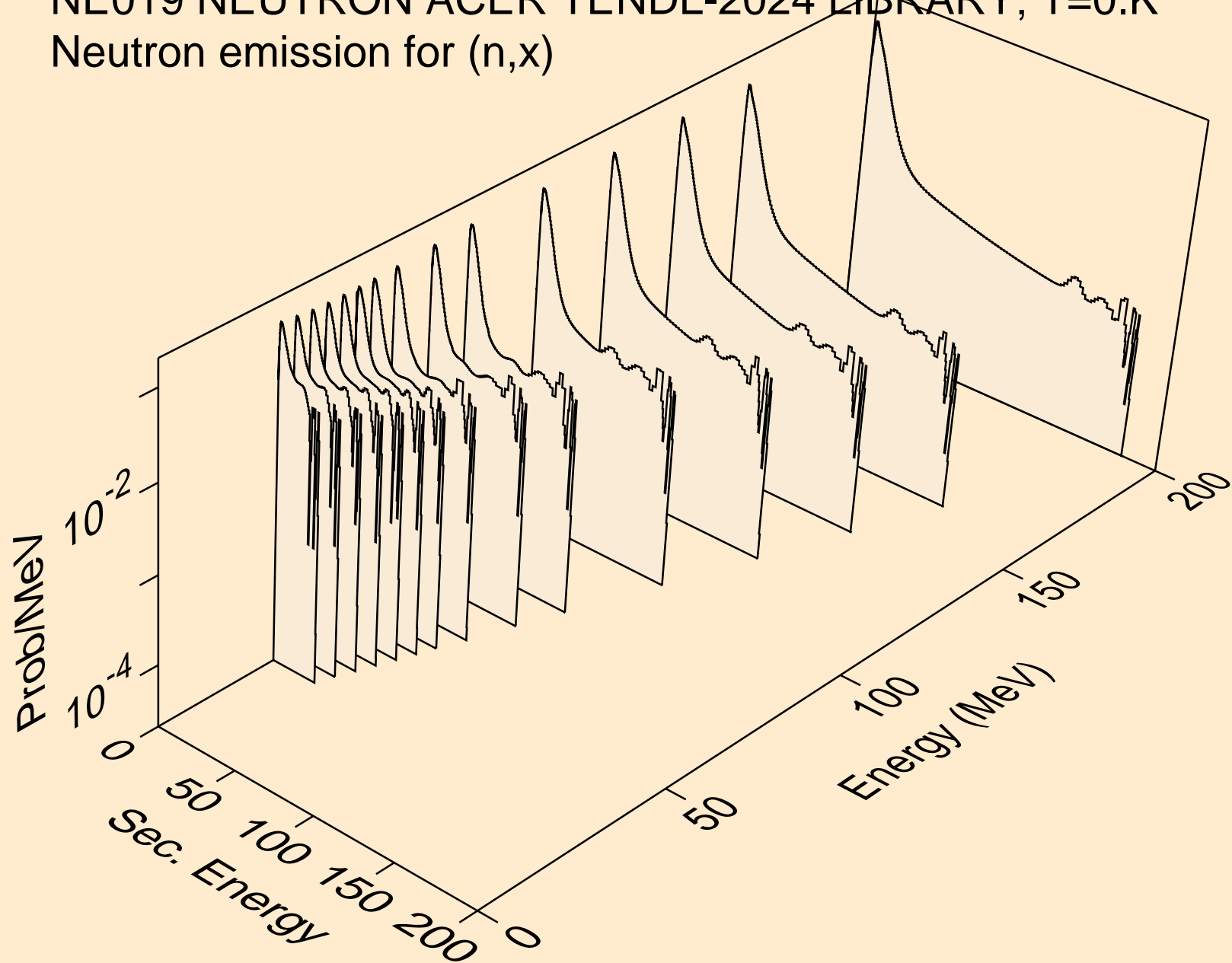
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angular distribution for (n,n\*6)



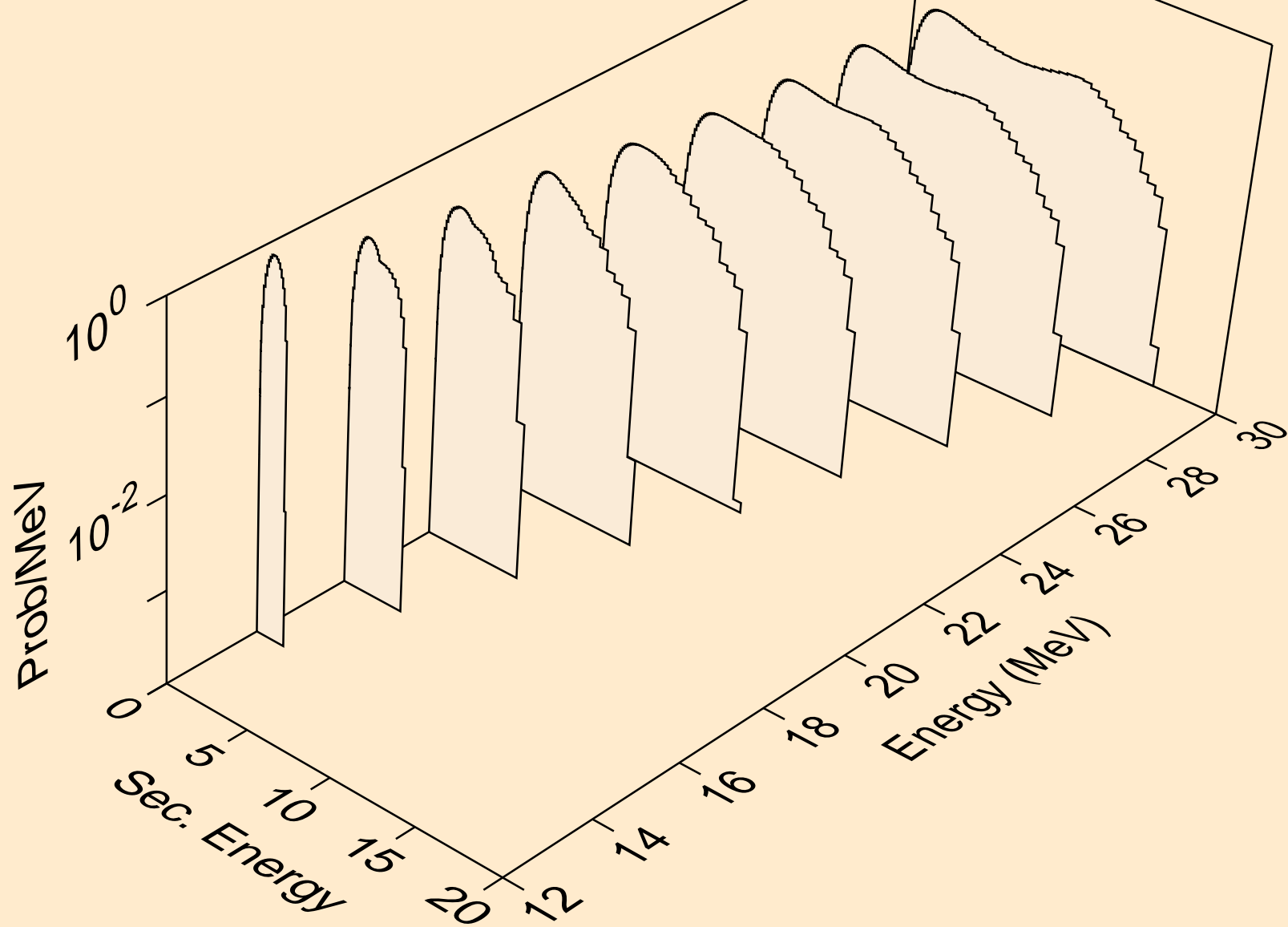
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angular distribution for (n,n\*7)



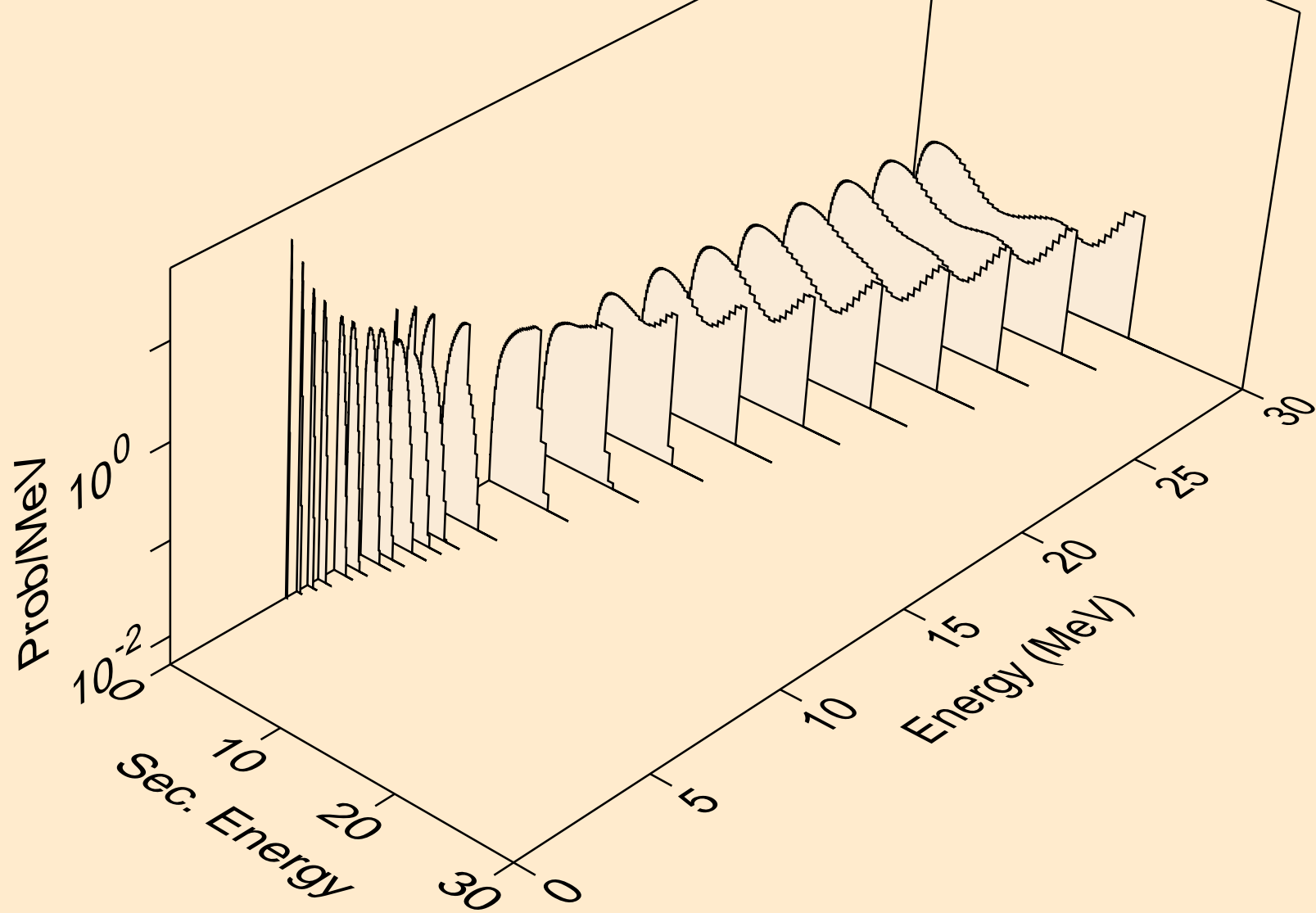
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Neutron emission for (n,x)



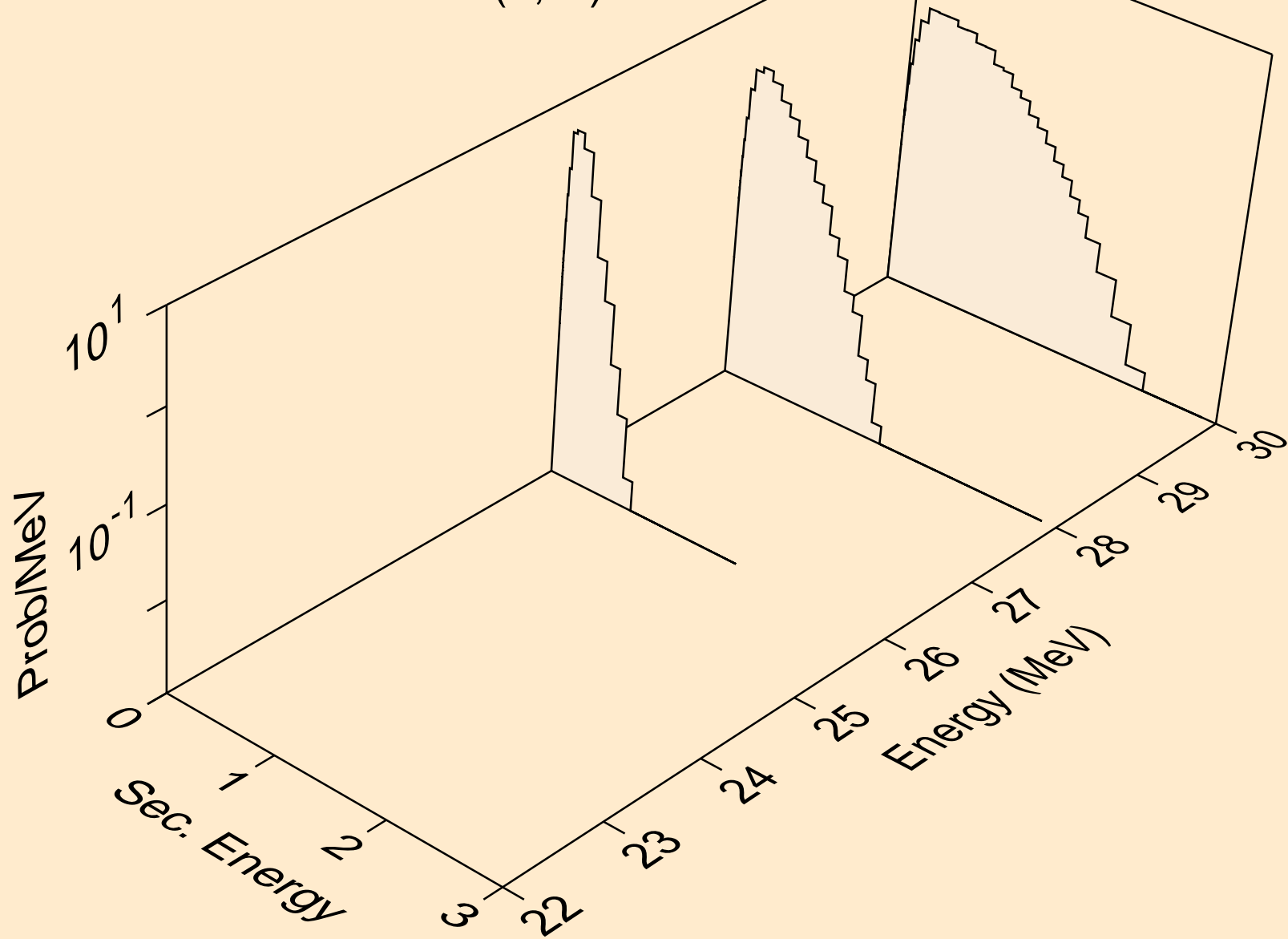
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Neutron emission for (n,2n)



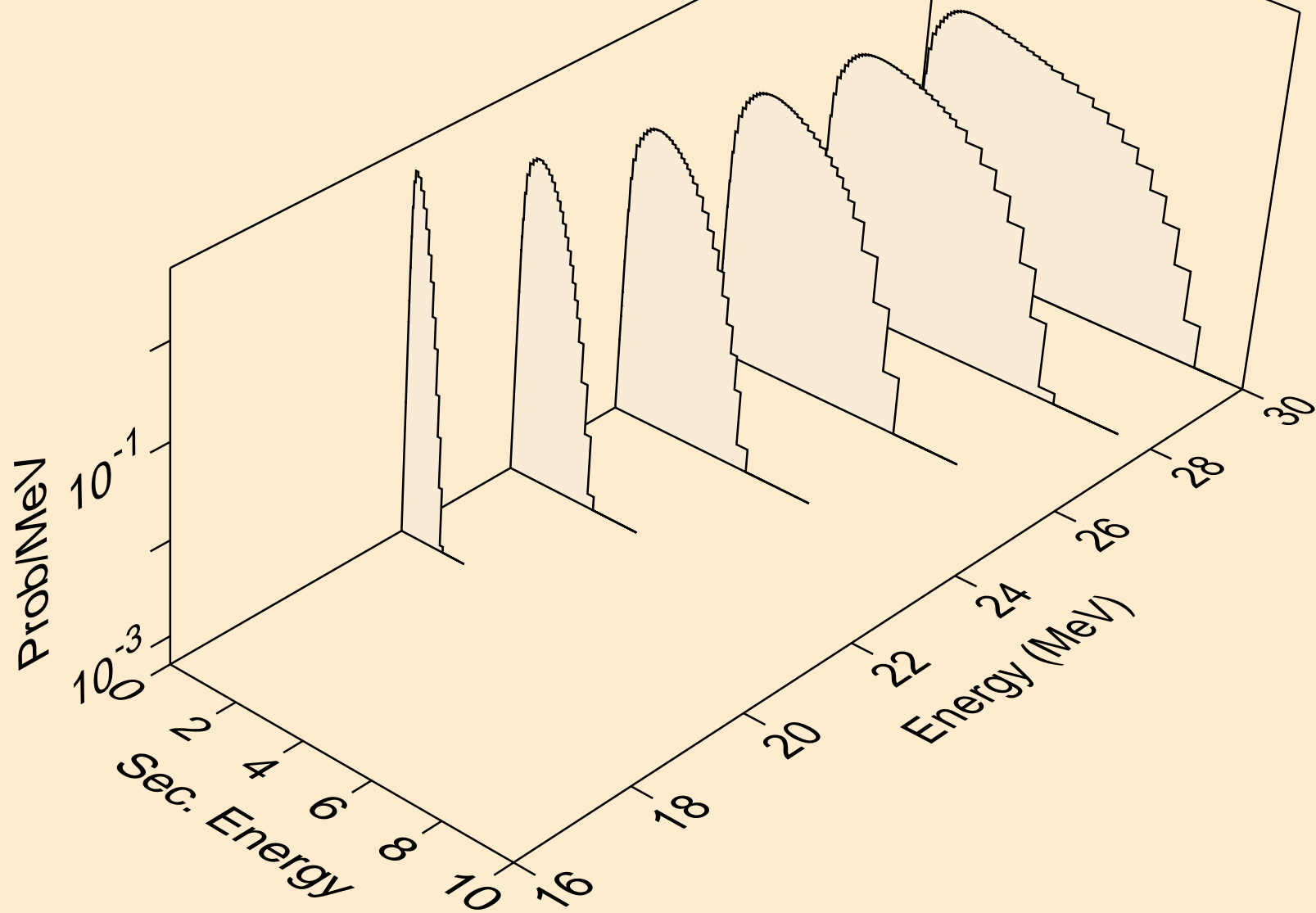
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)3a

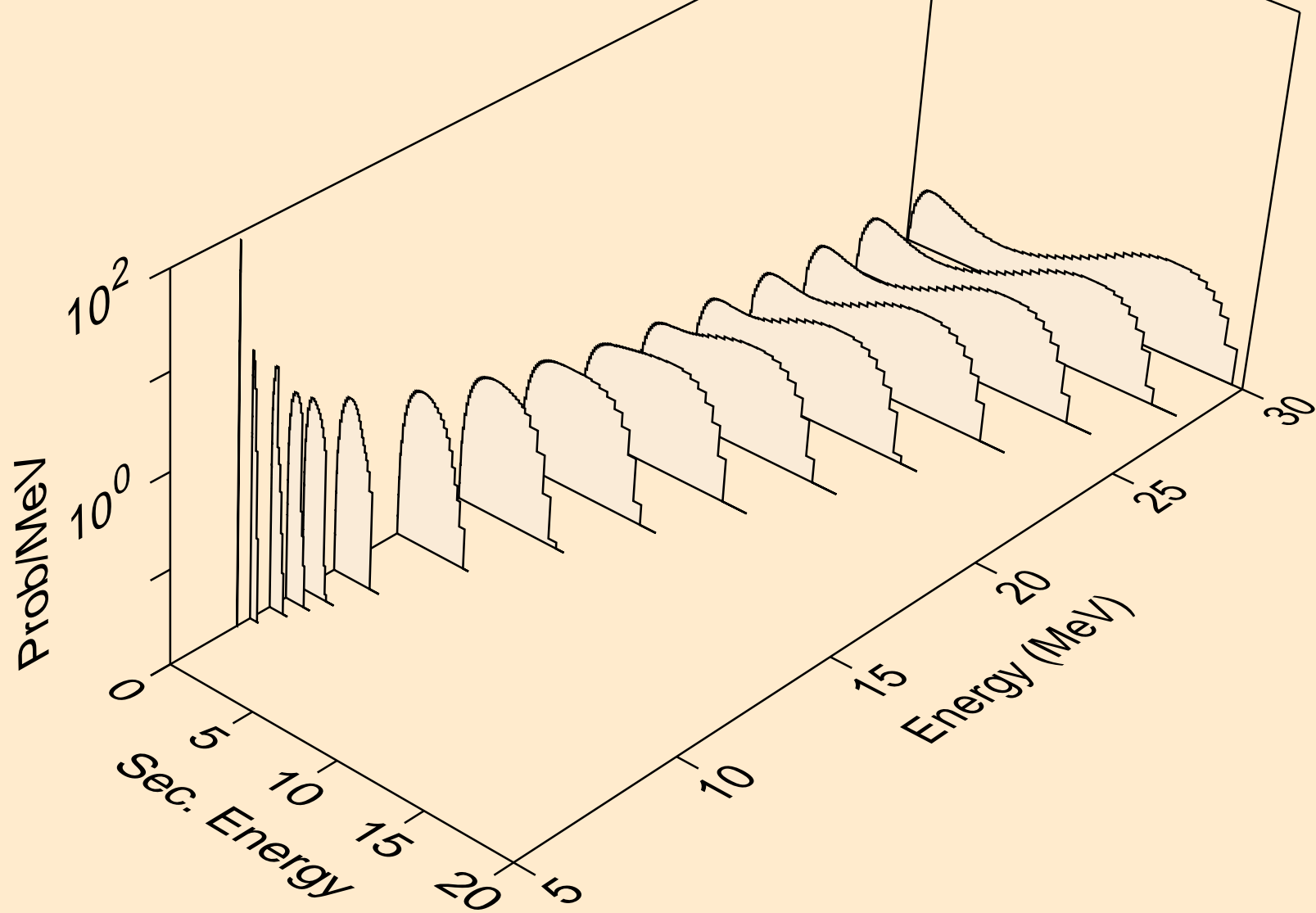


NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

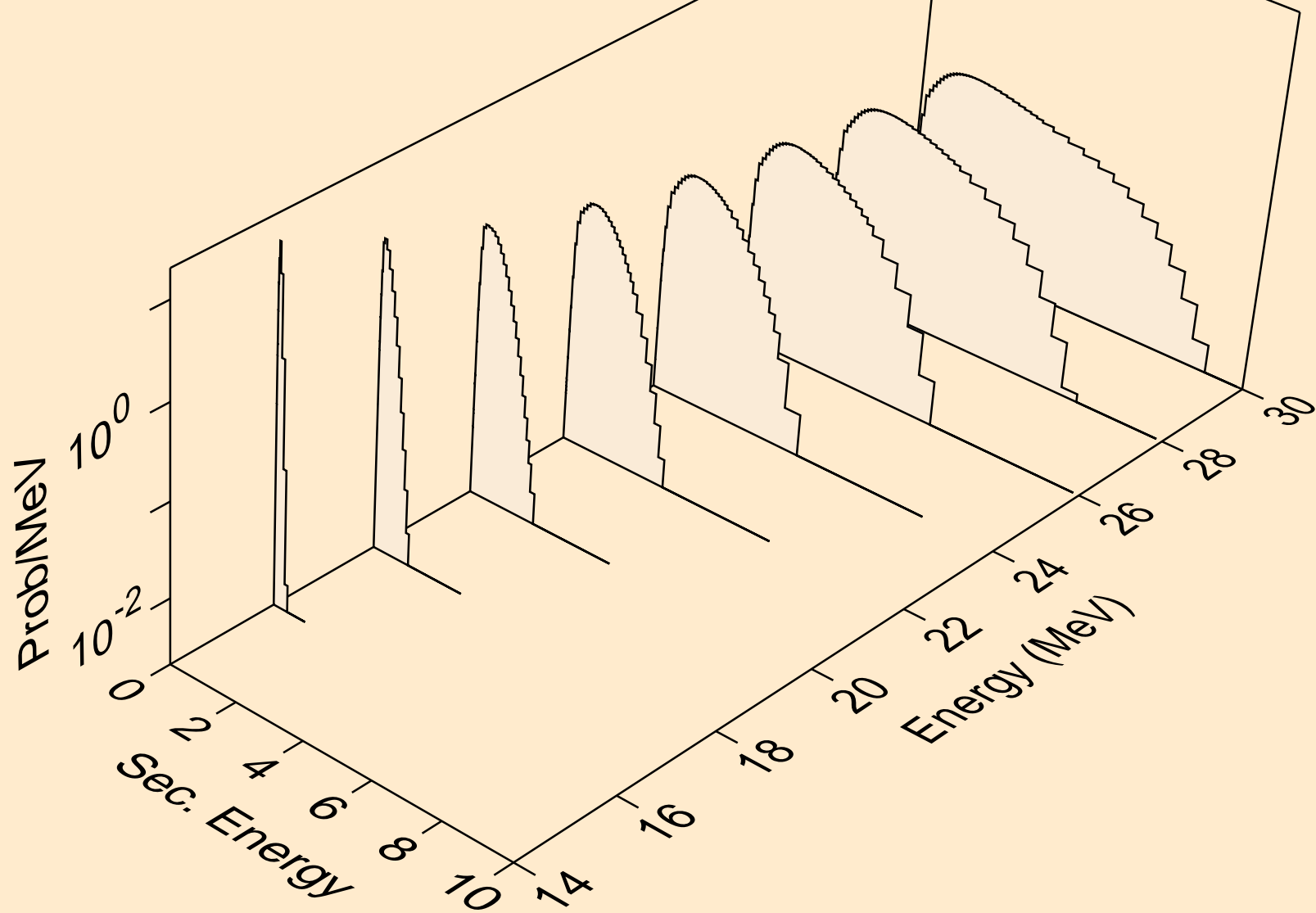




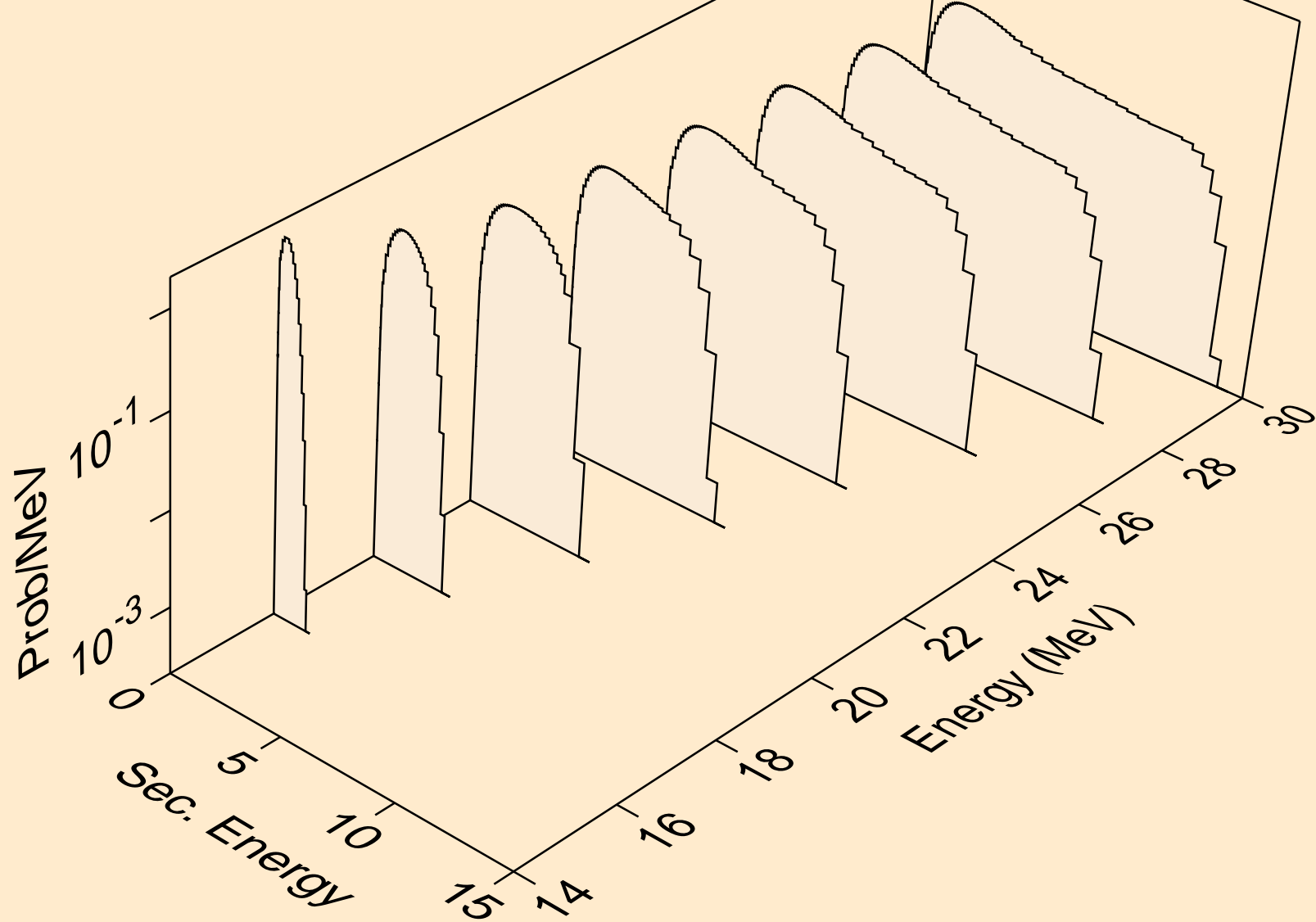
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



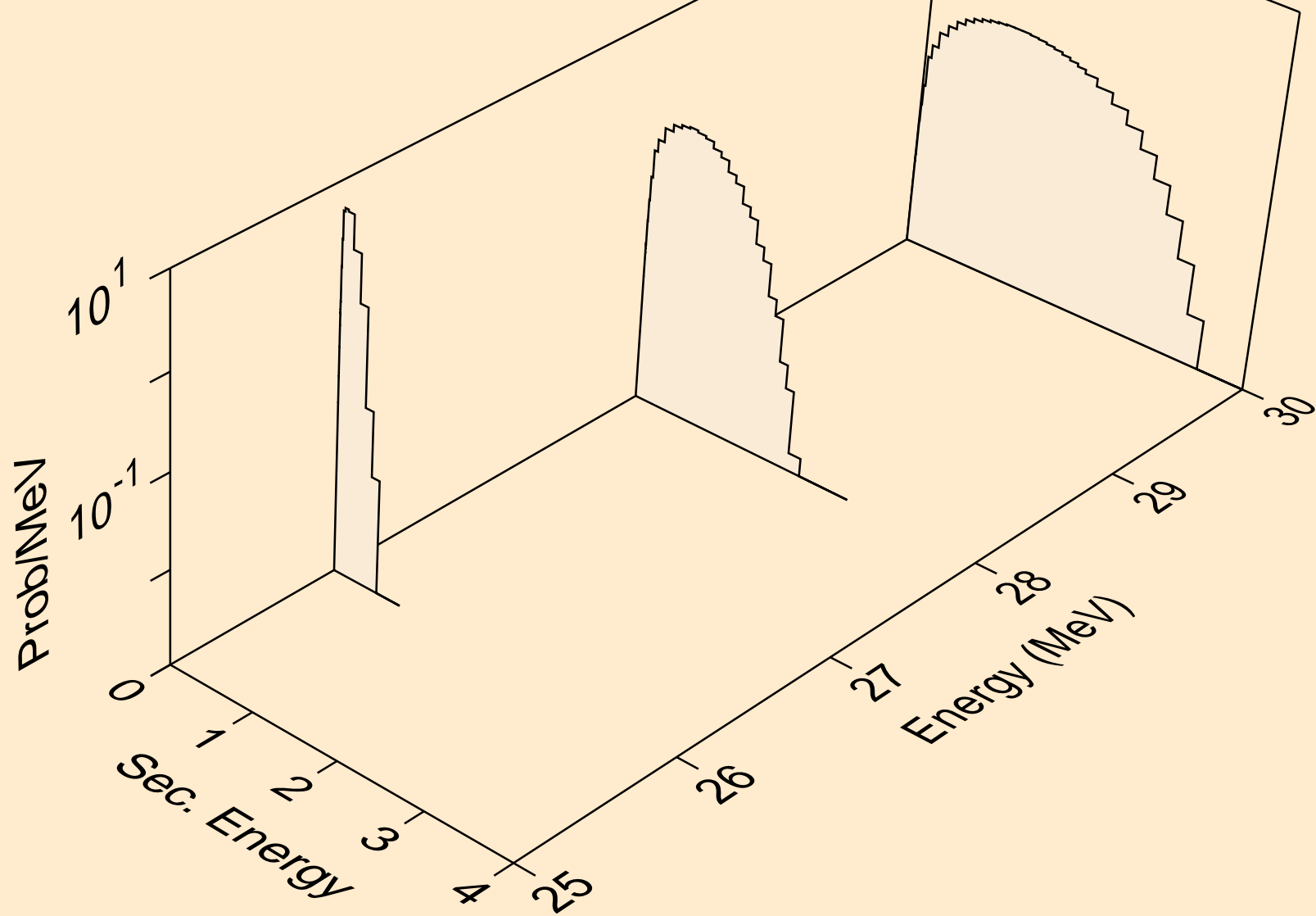
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Neutron emission for (n,n\*)2a



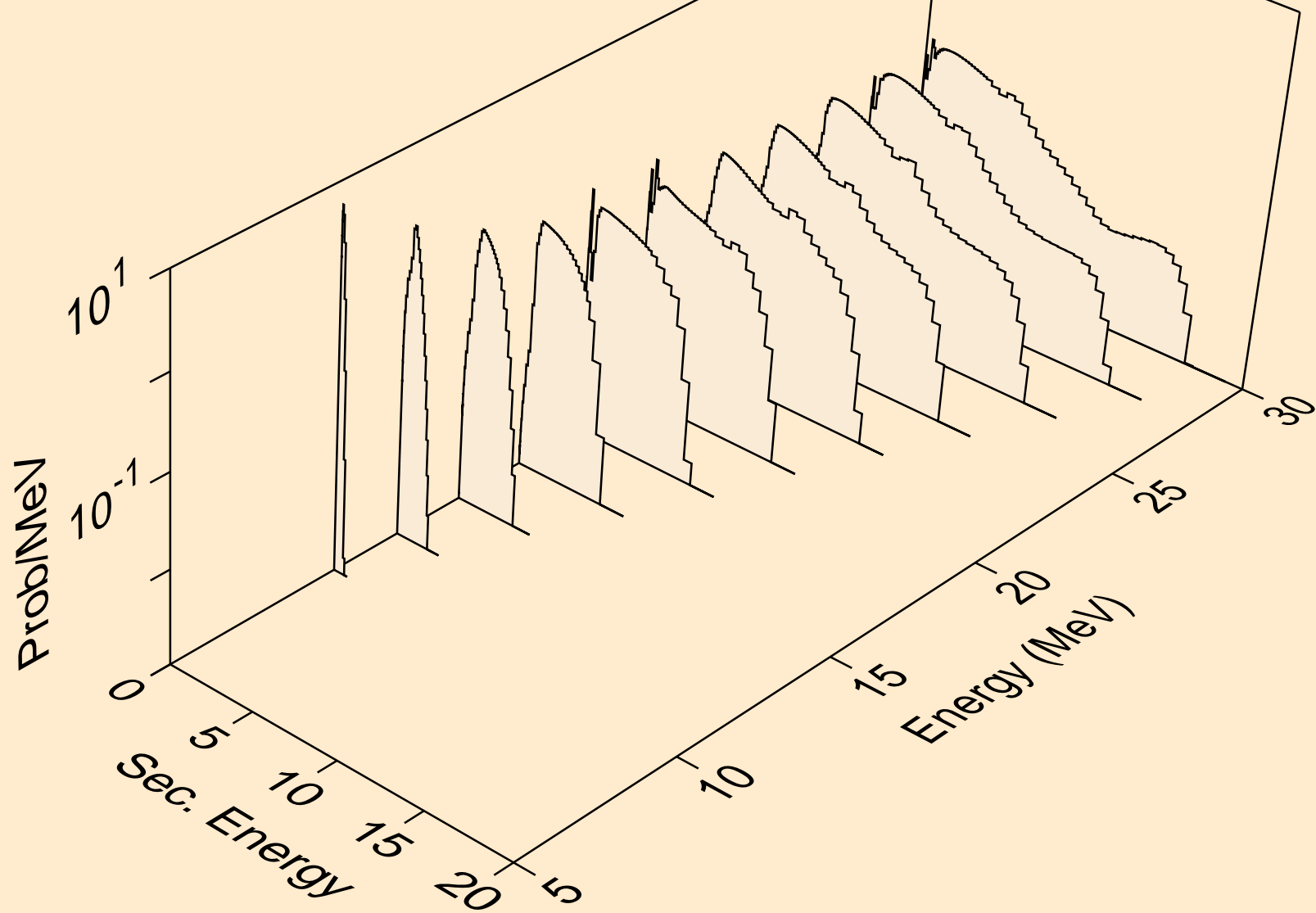
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



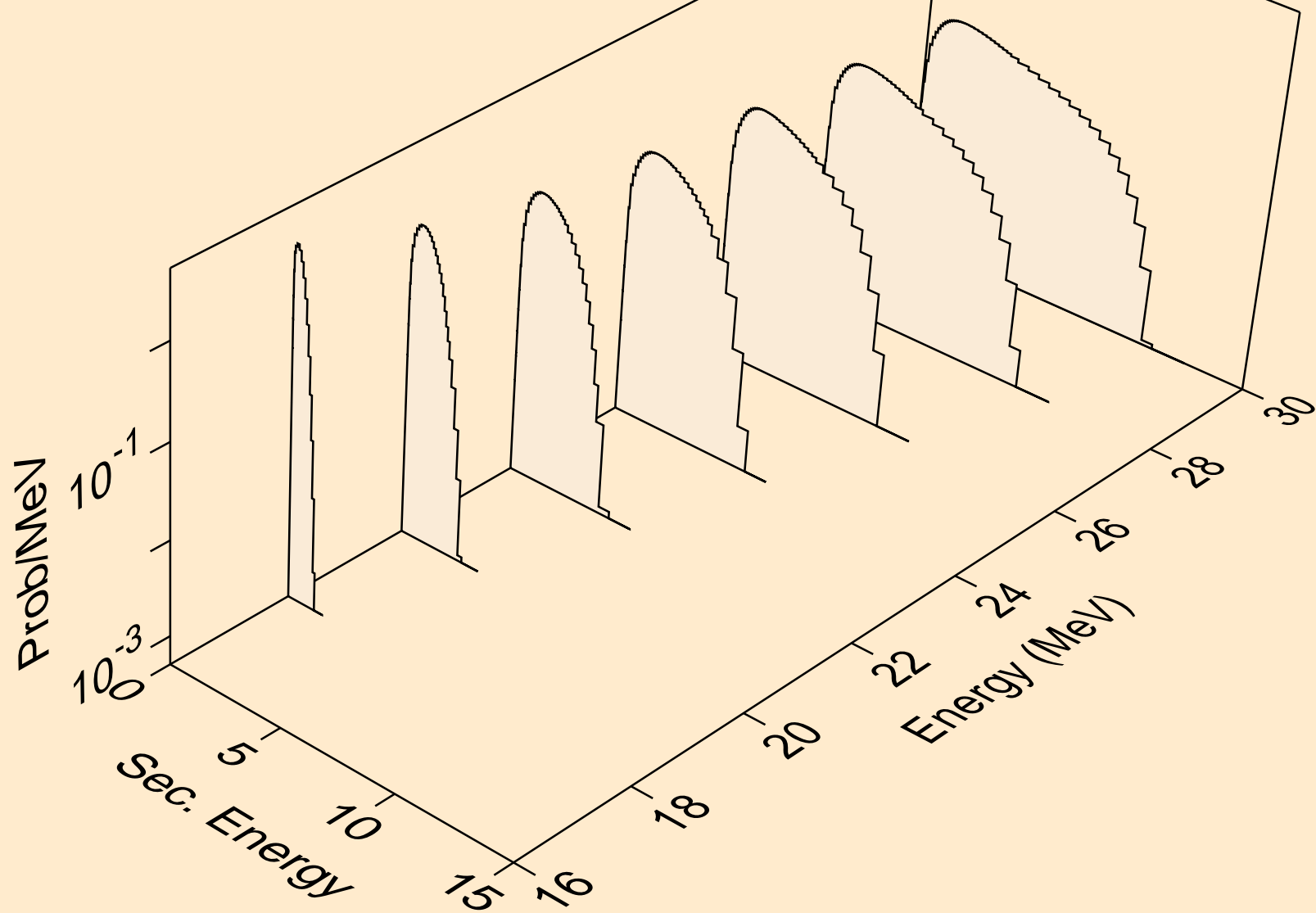
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



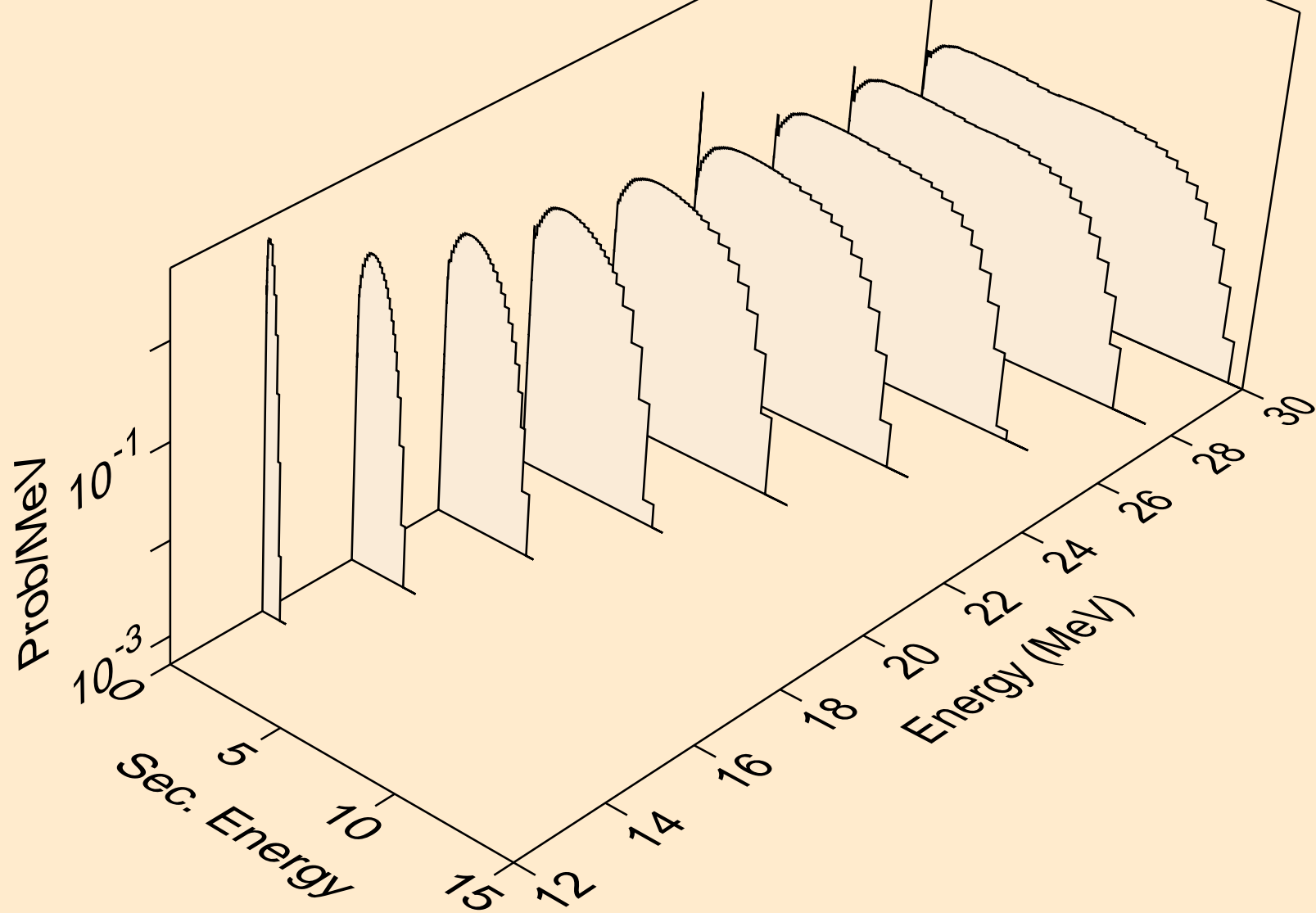
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



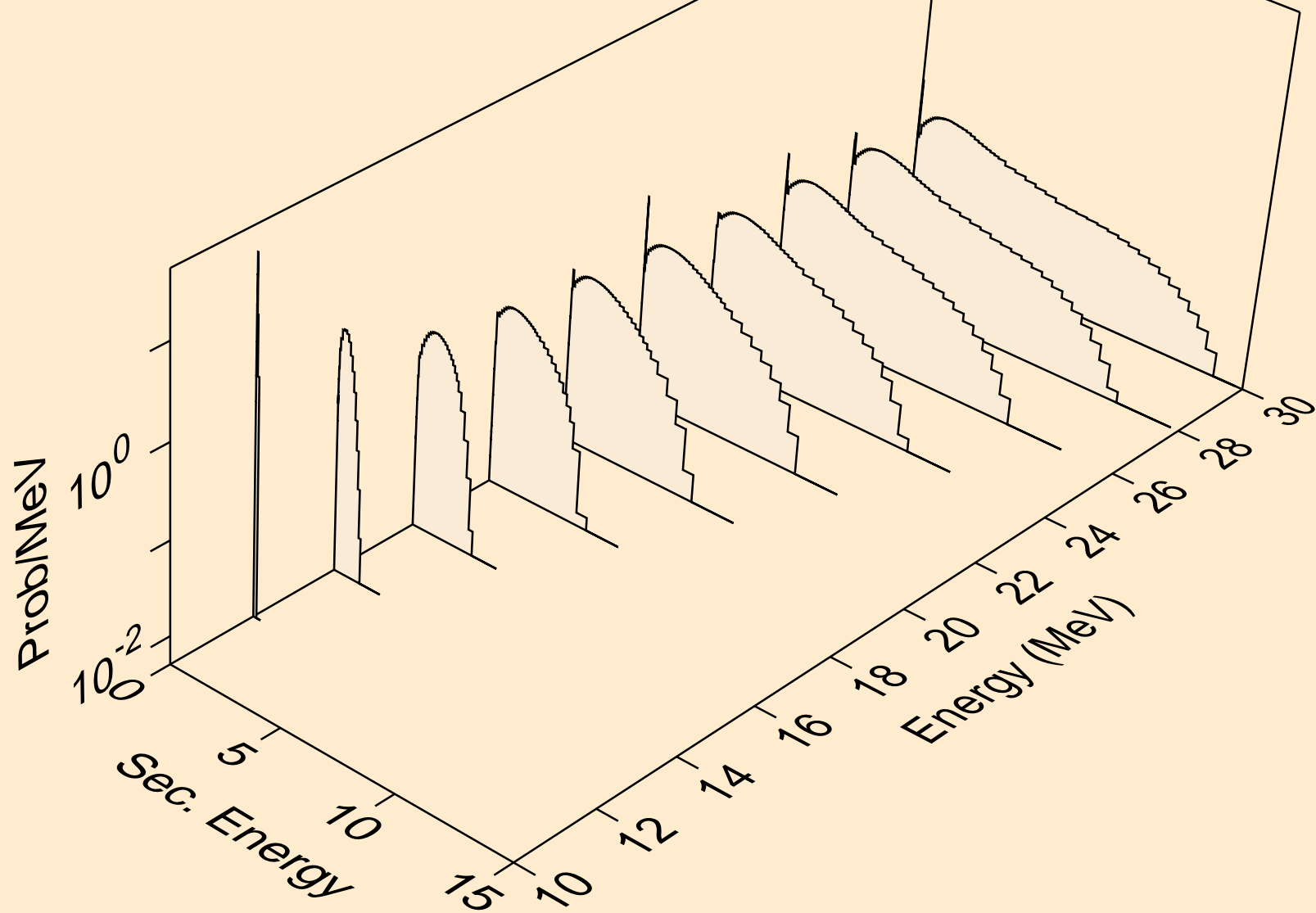
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

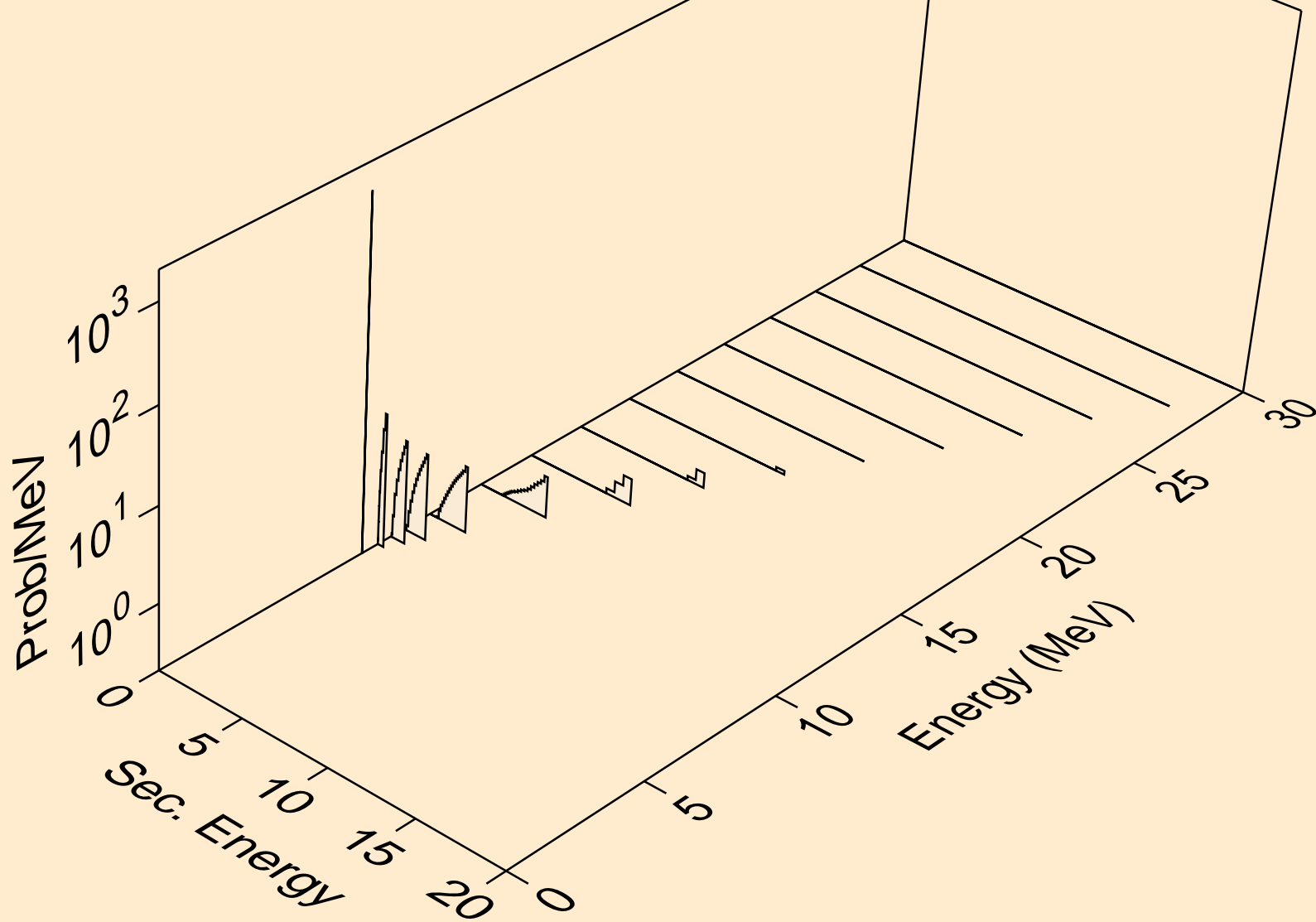


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Neutron emission for (n,npa)

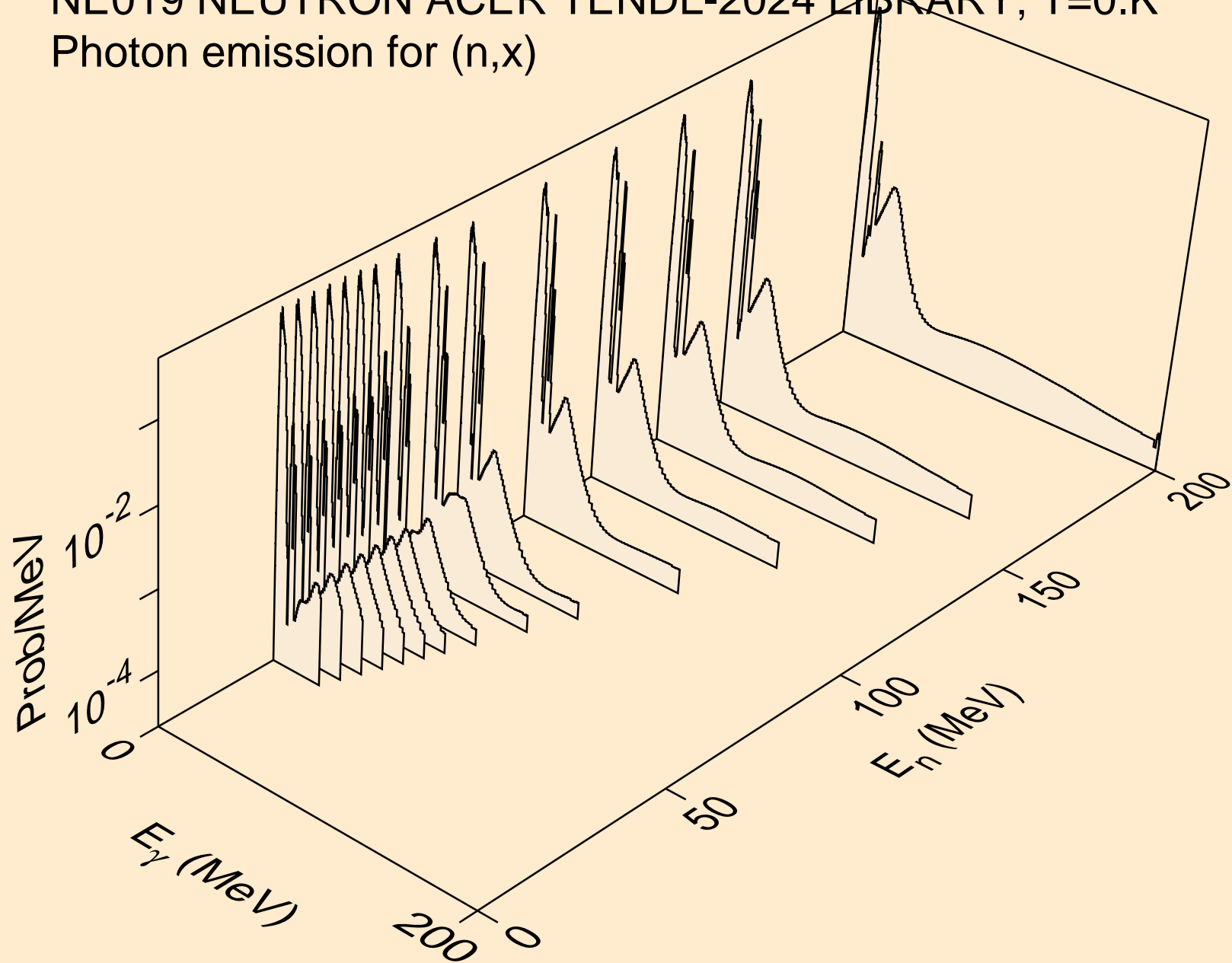




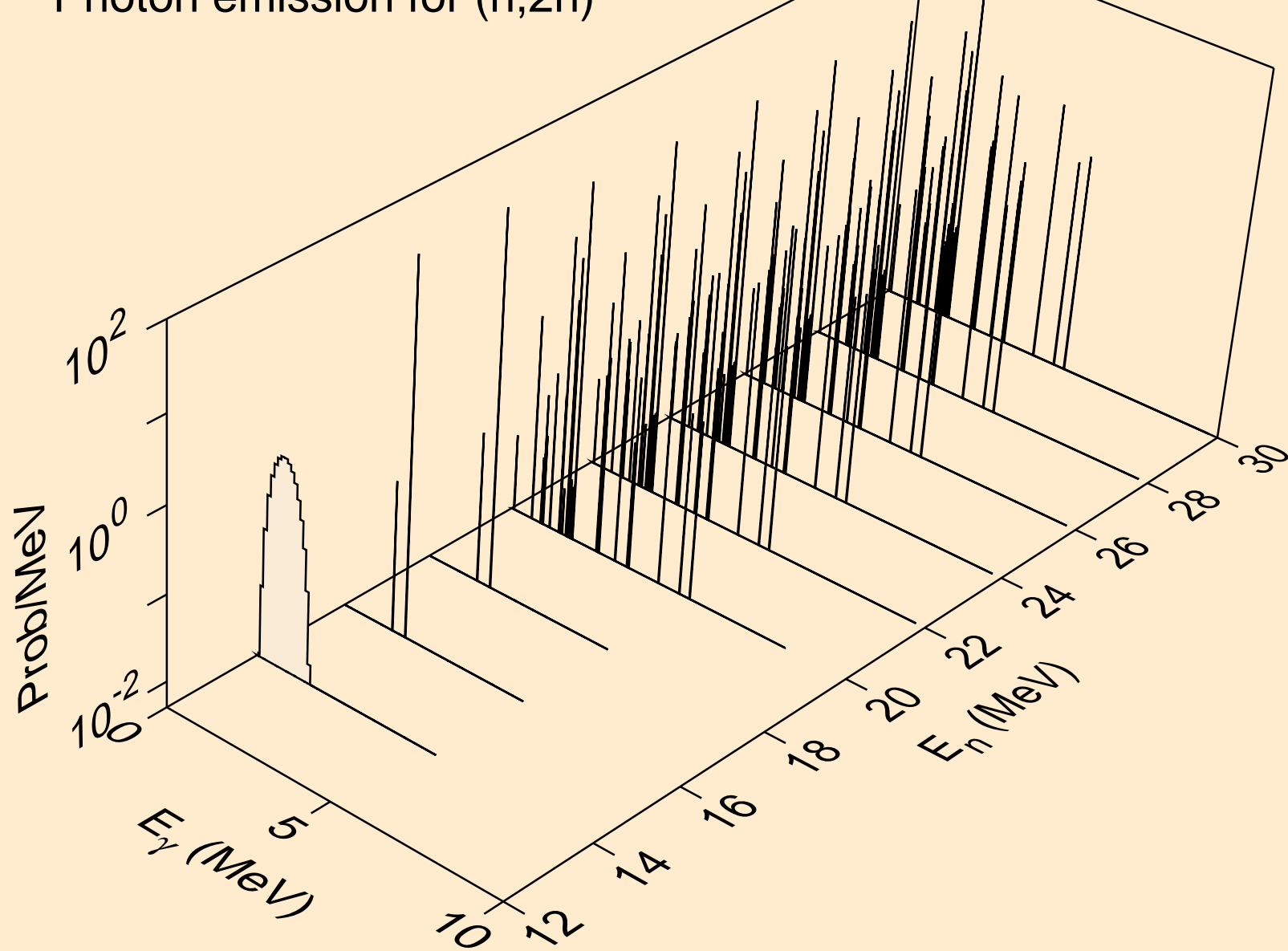
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Neutron emission for (n,n\*c)



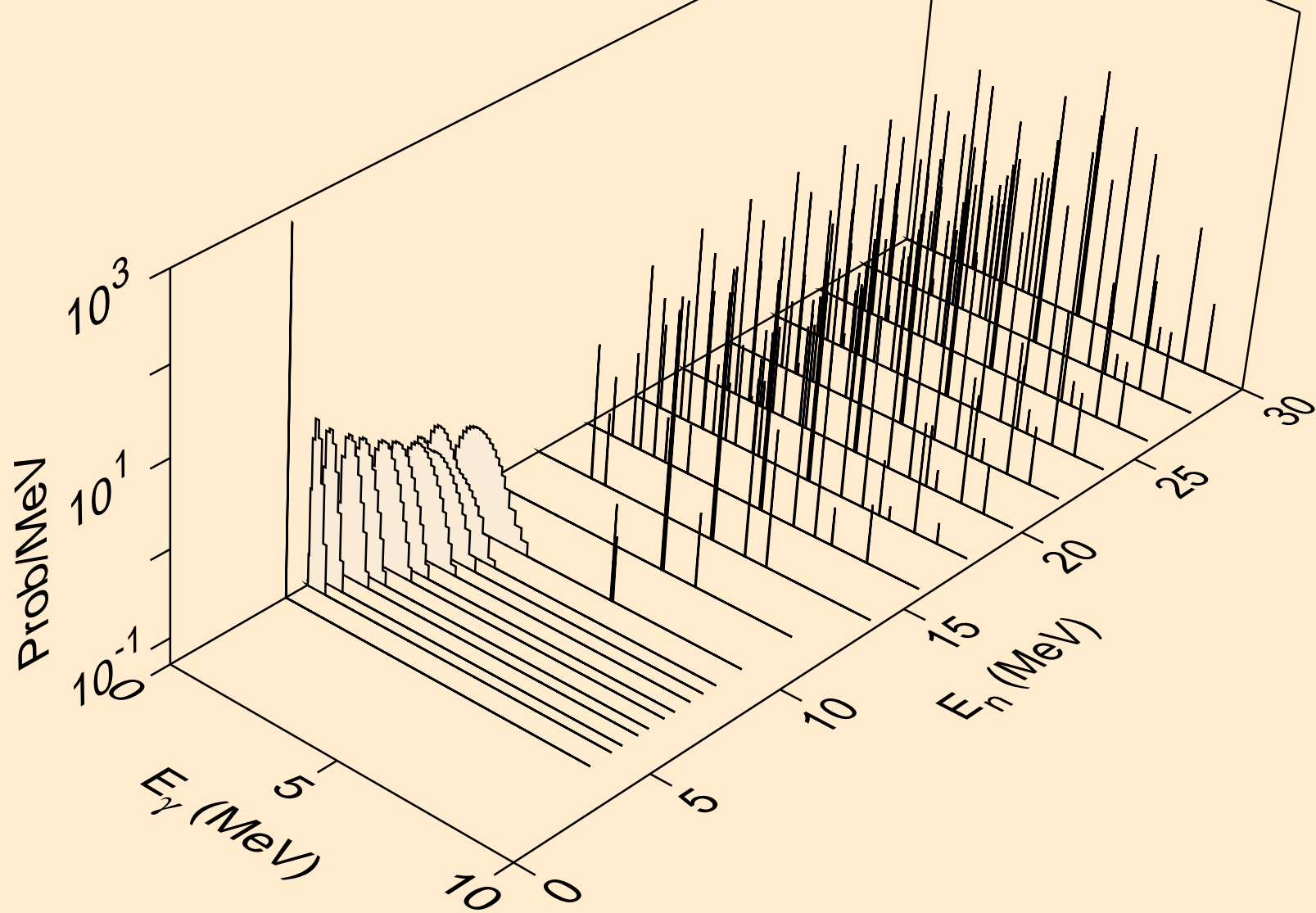
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)



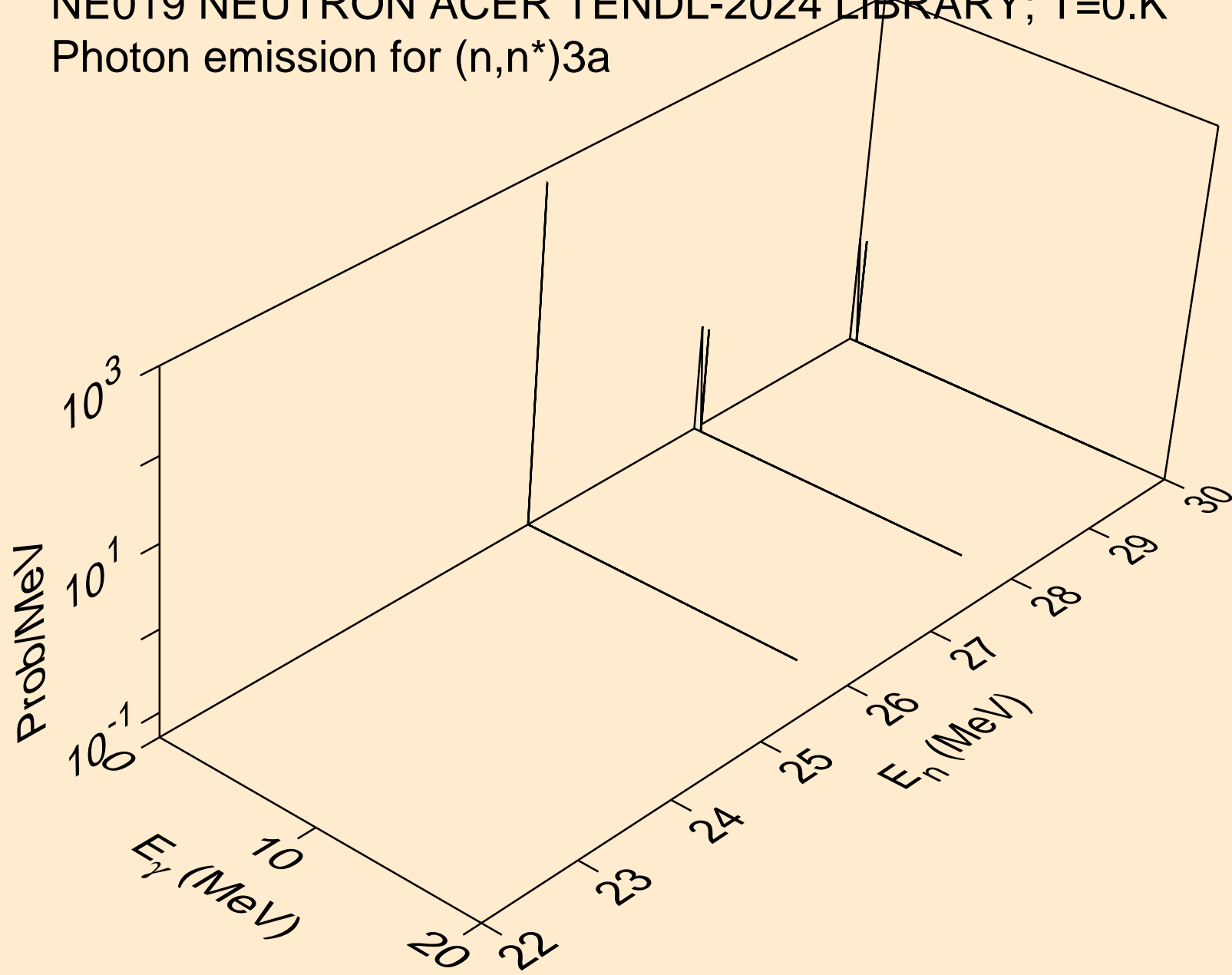
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Photon emission for (n,2n)



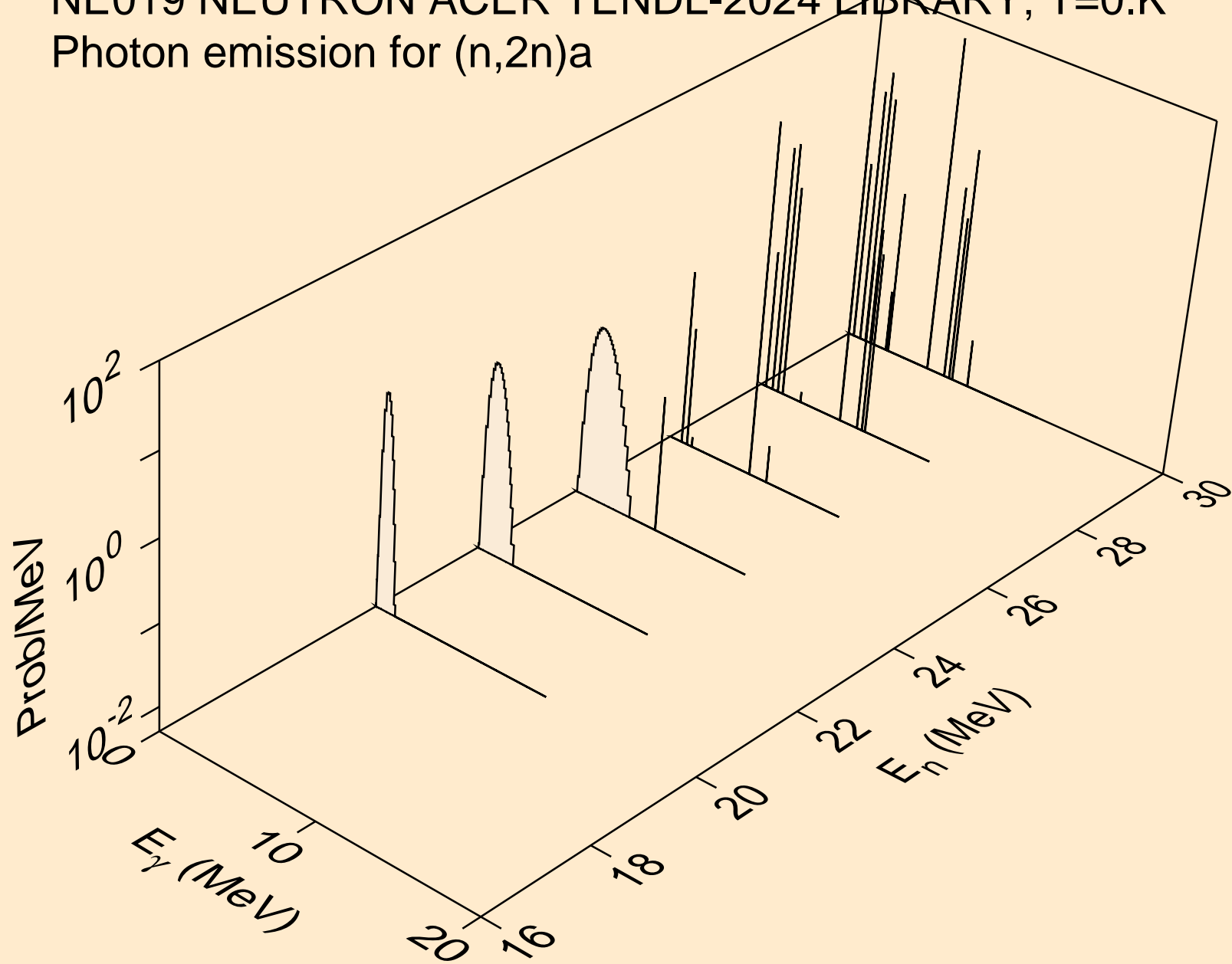
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Photon emission for (n,n\*)a



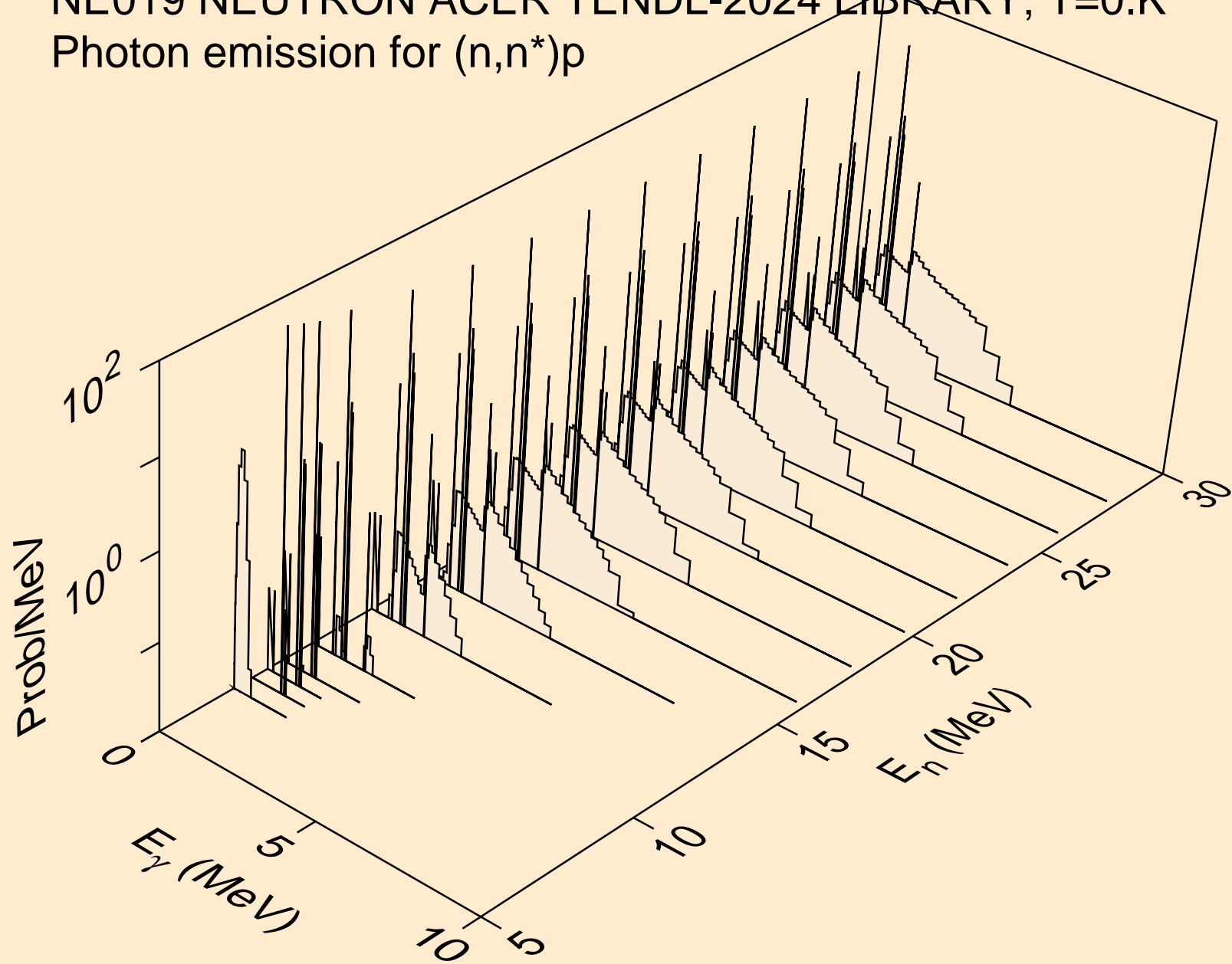
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Photon emission for (n,n\*)3a



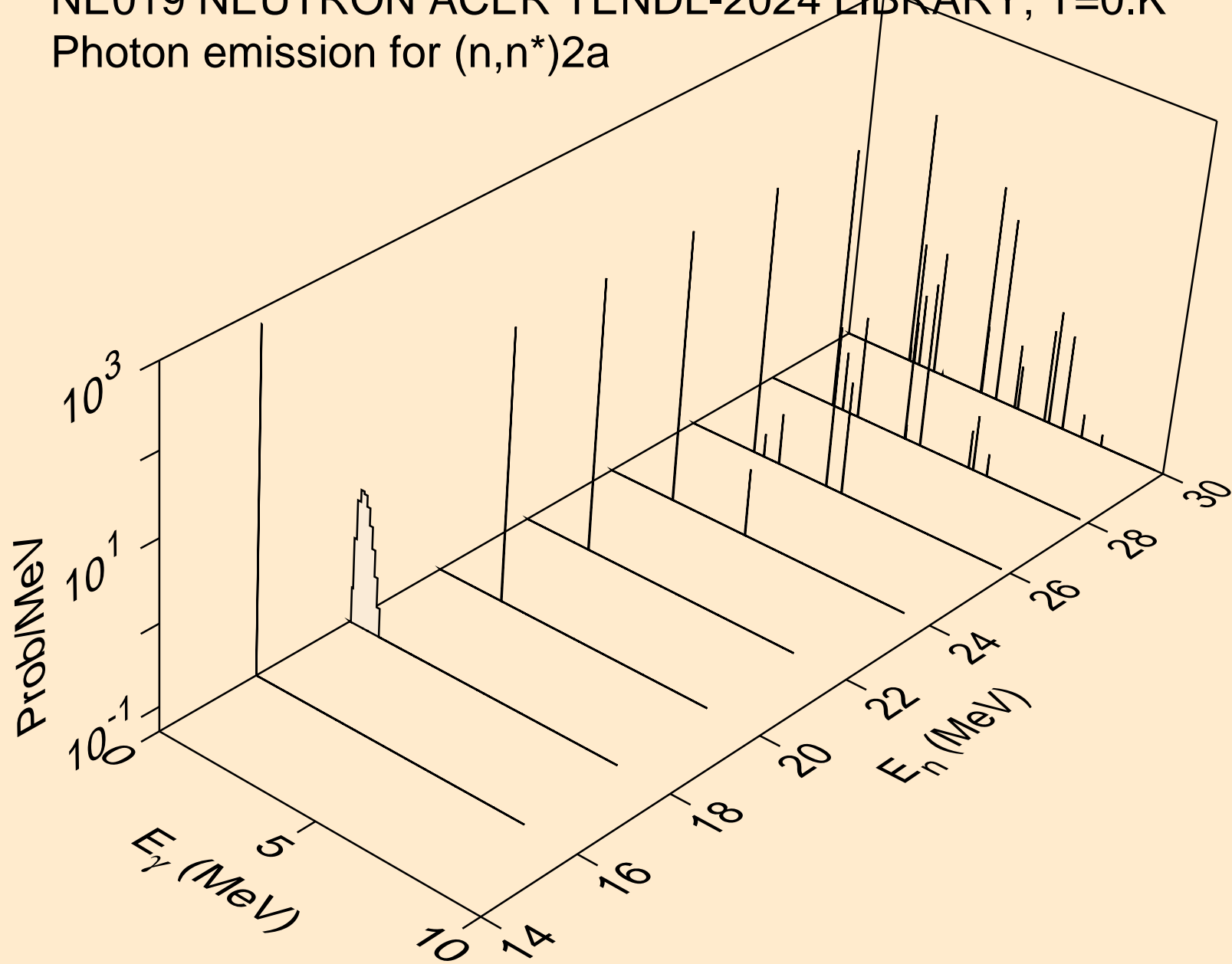
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

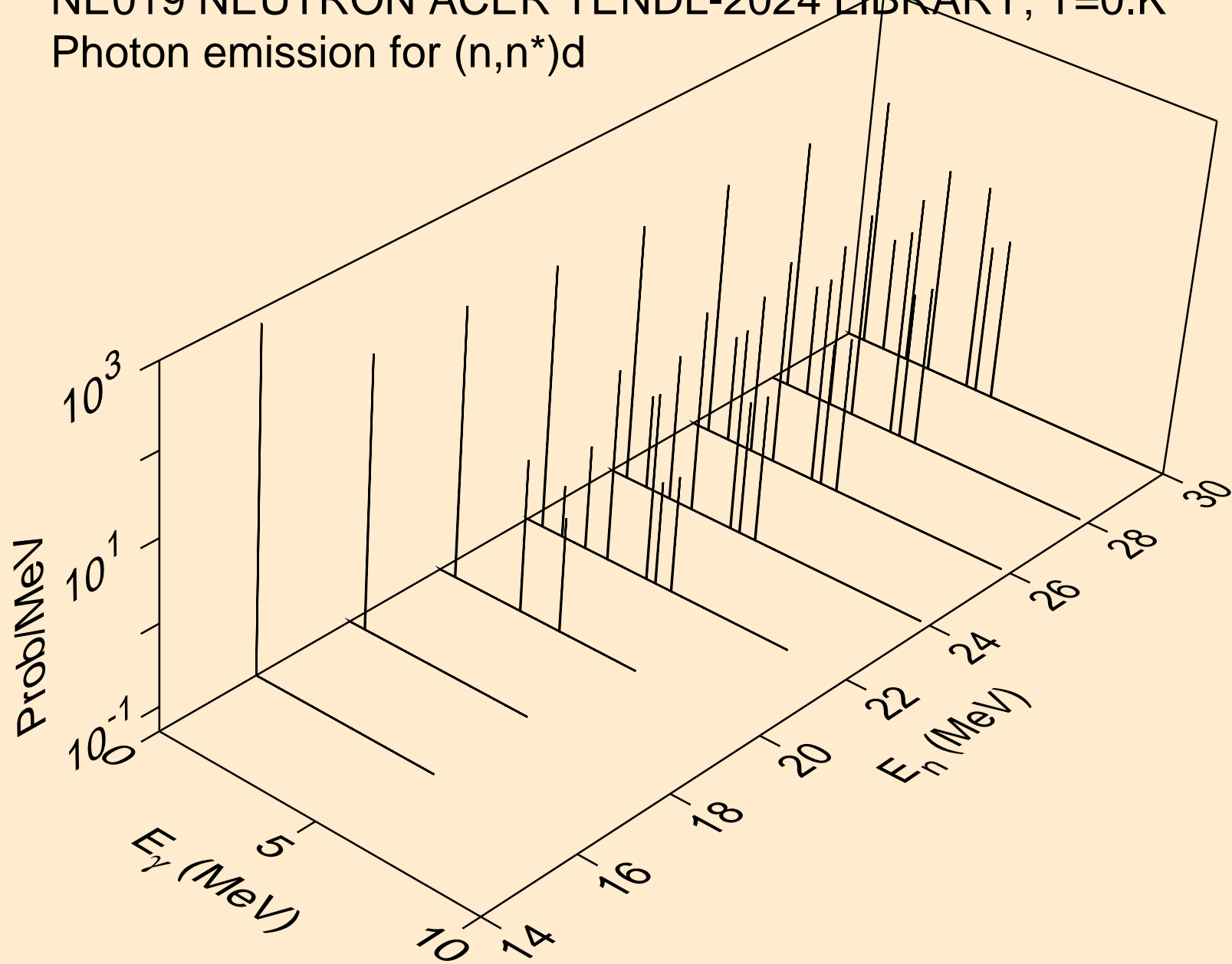


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Photon emission for (n,n\*)2a

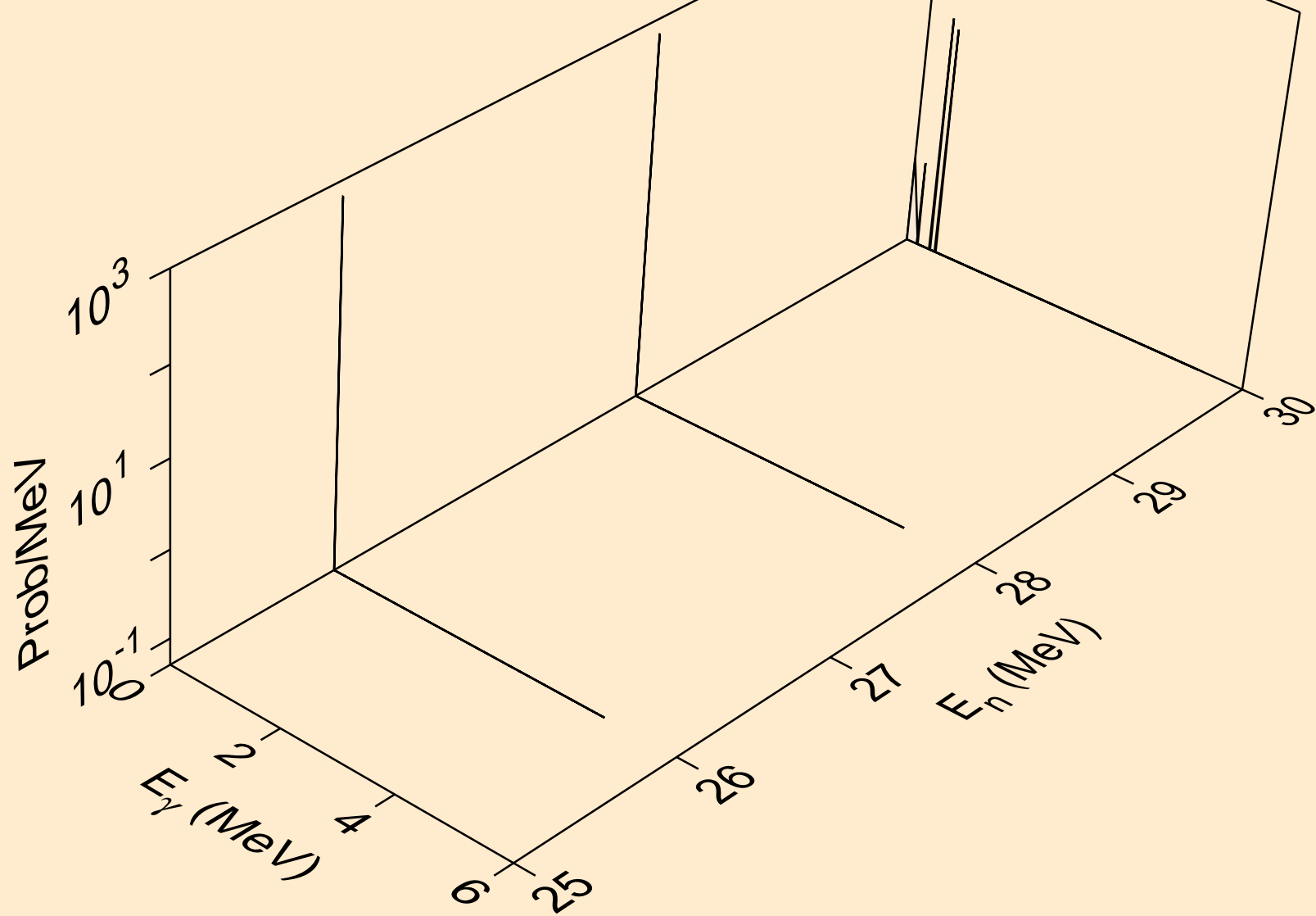




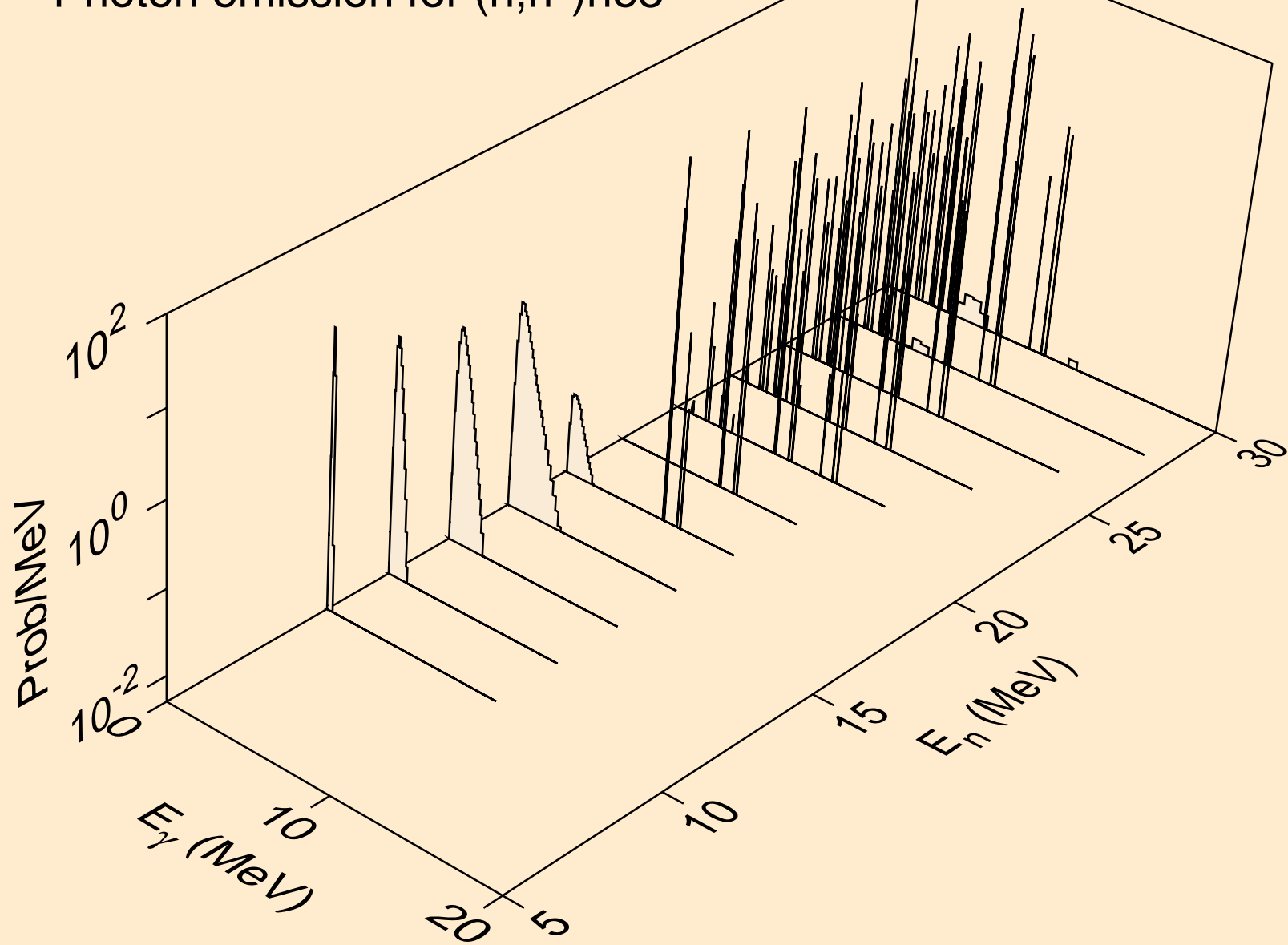
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Photon emission for (n,n\*)d



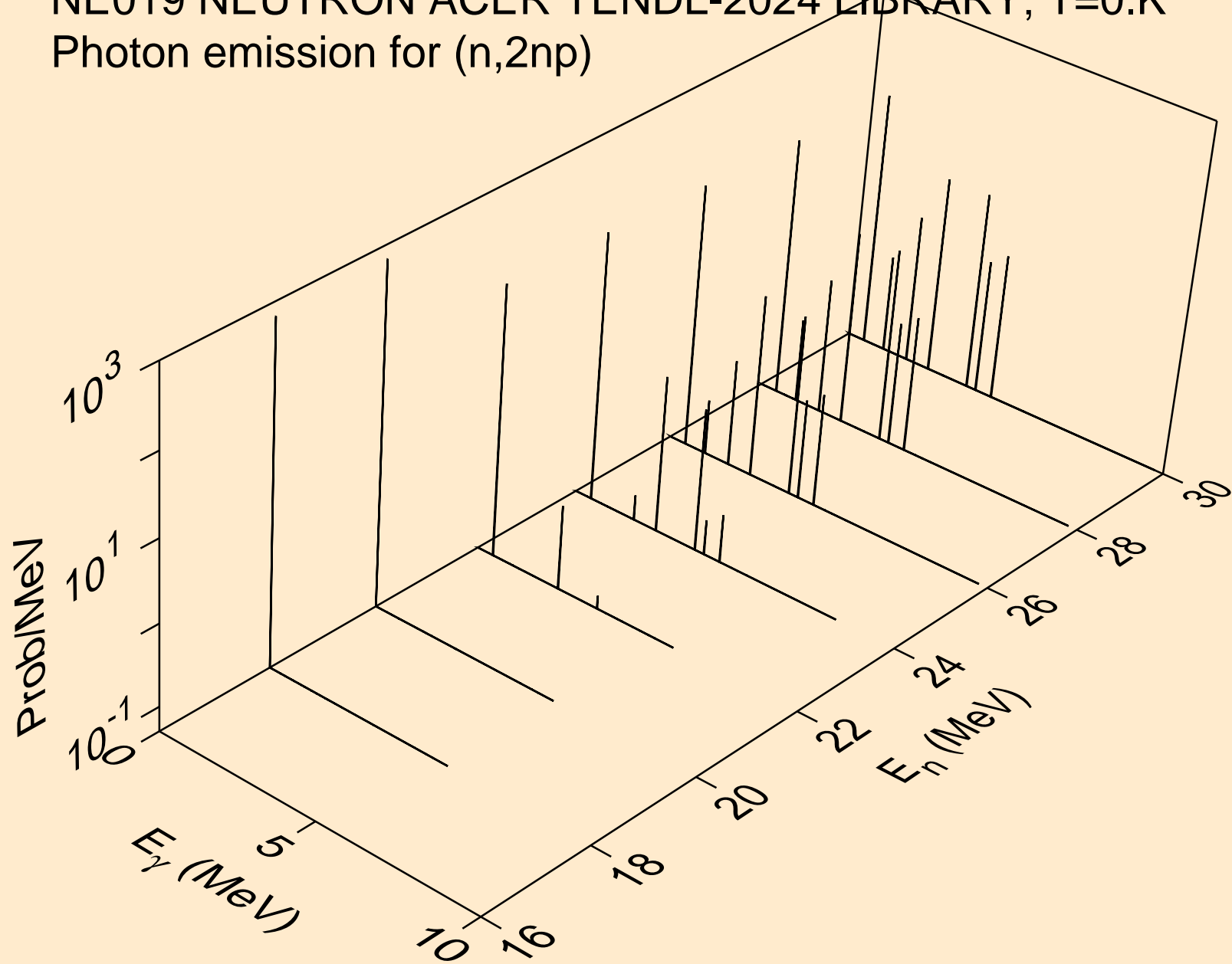
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Photon emission for (n,n\*)t



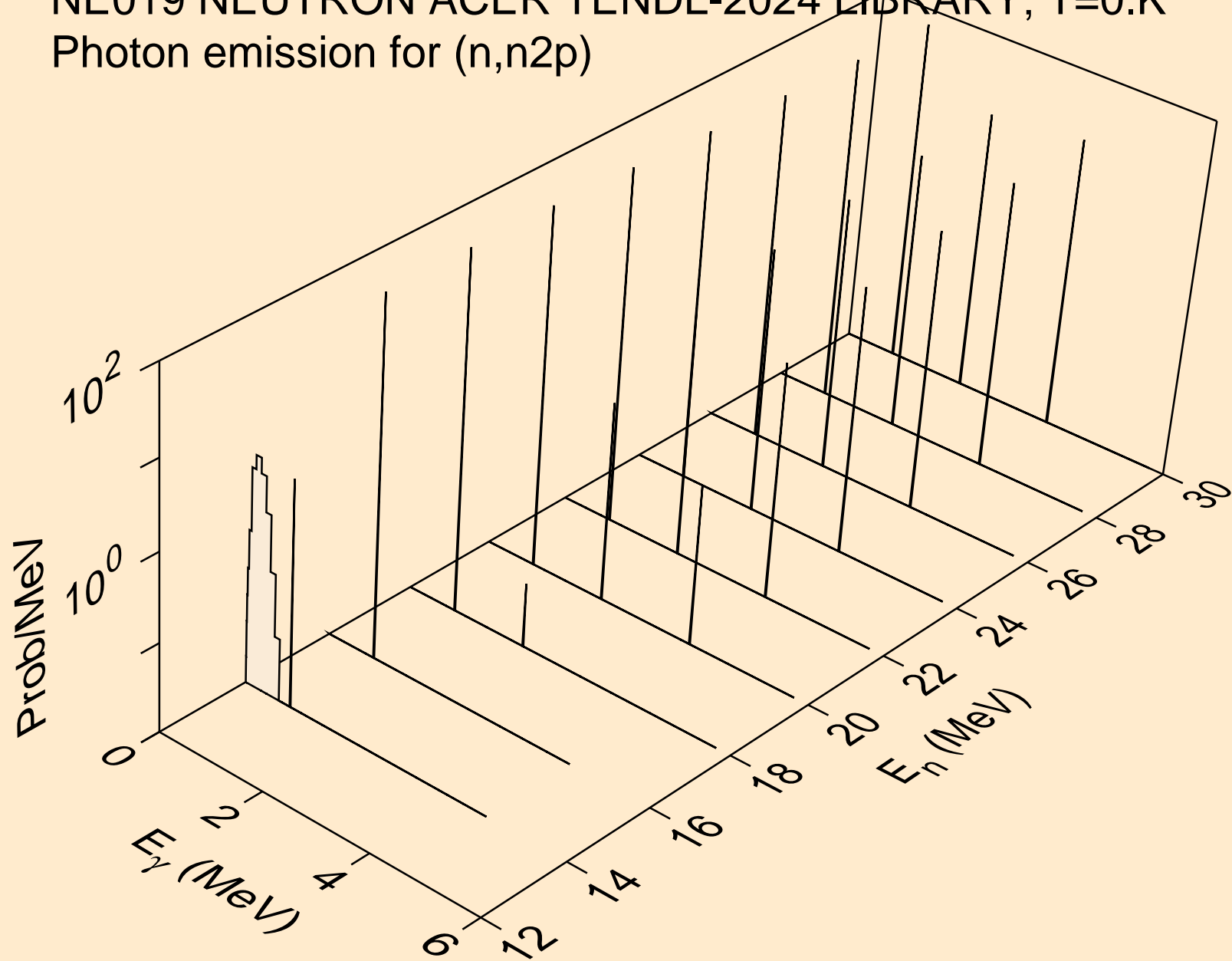
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Photon emission for (n,n\*)he3



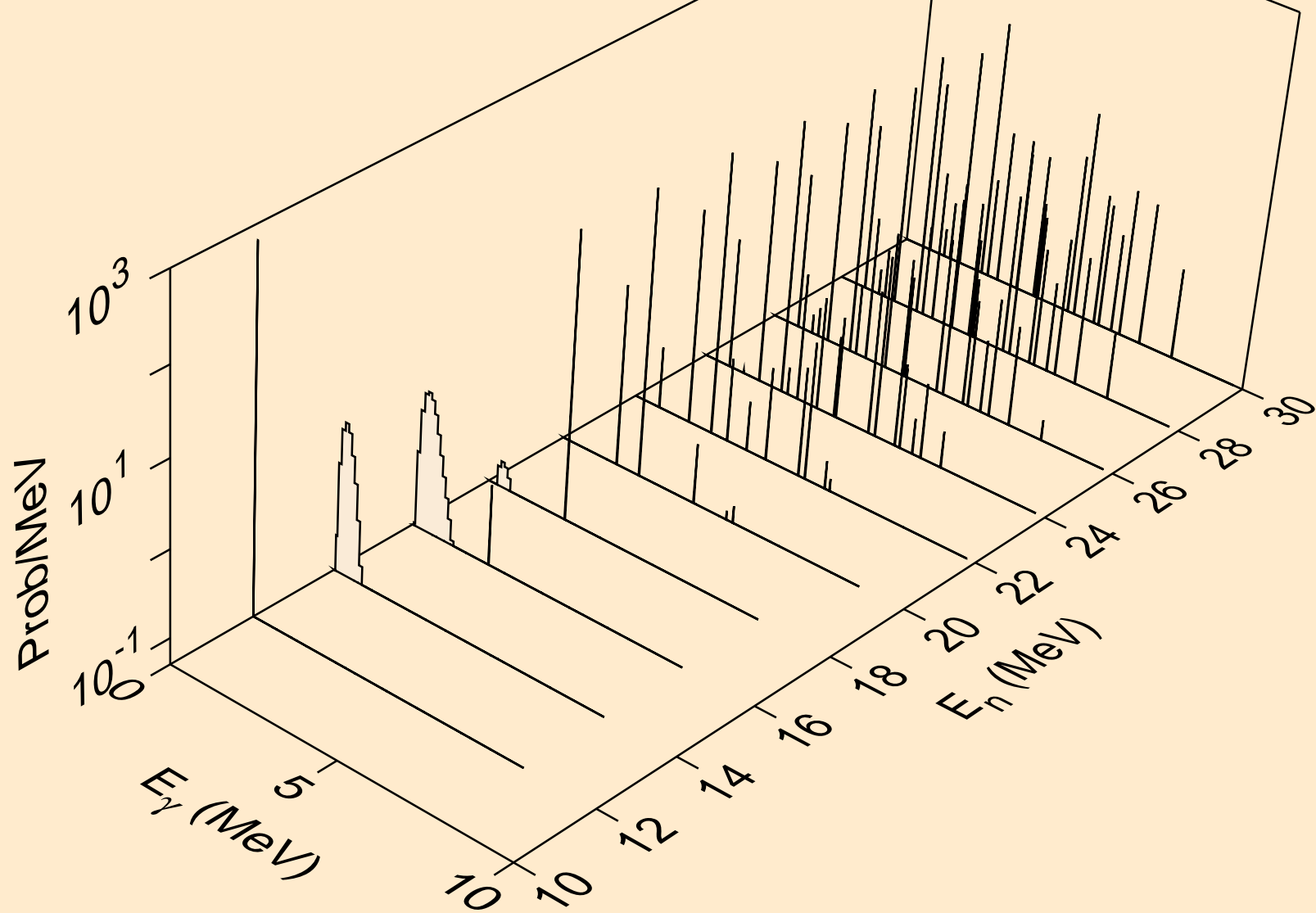
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Photon emission for (n,2np)



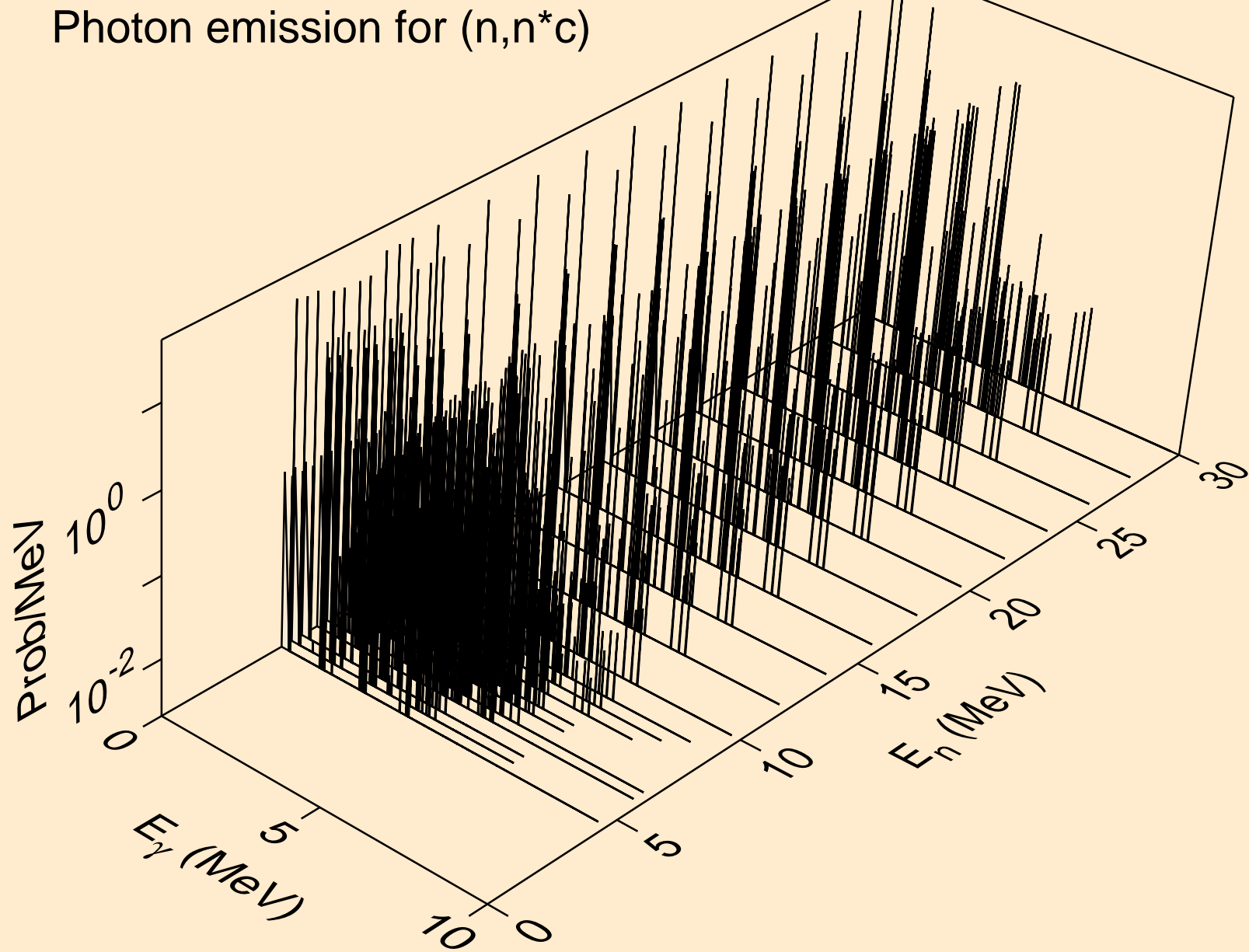
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Photon emission for (n,n2p)



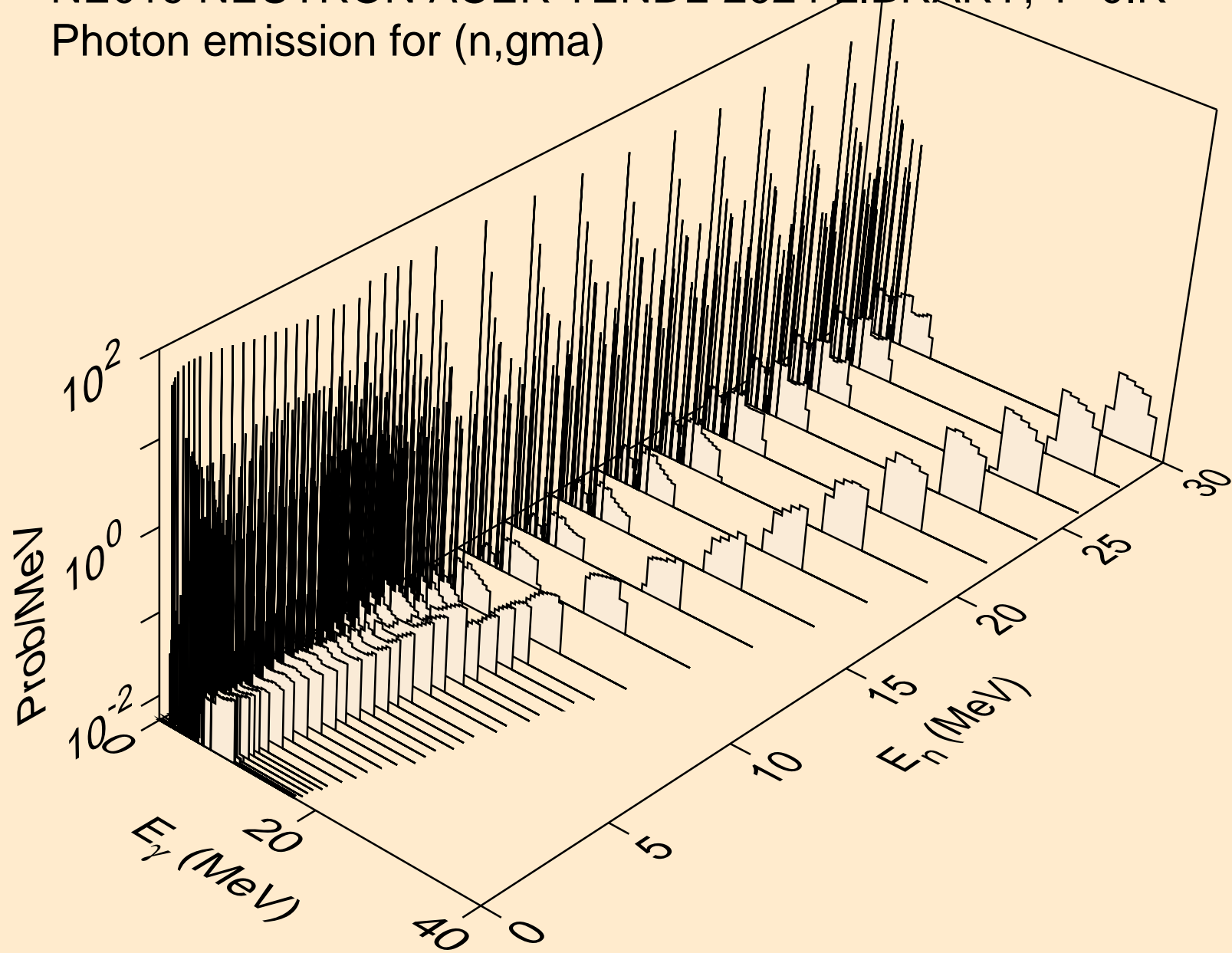
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,npa)



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*c)

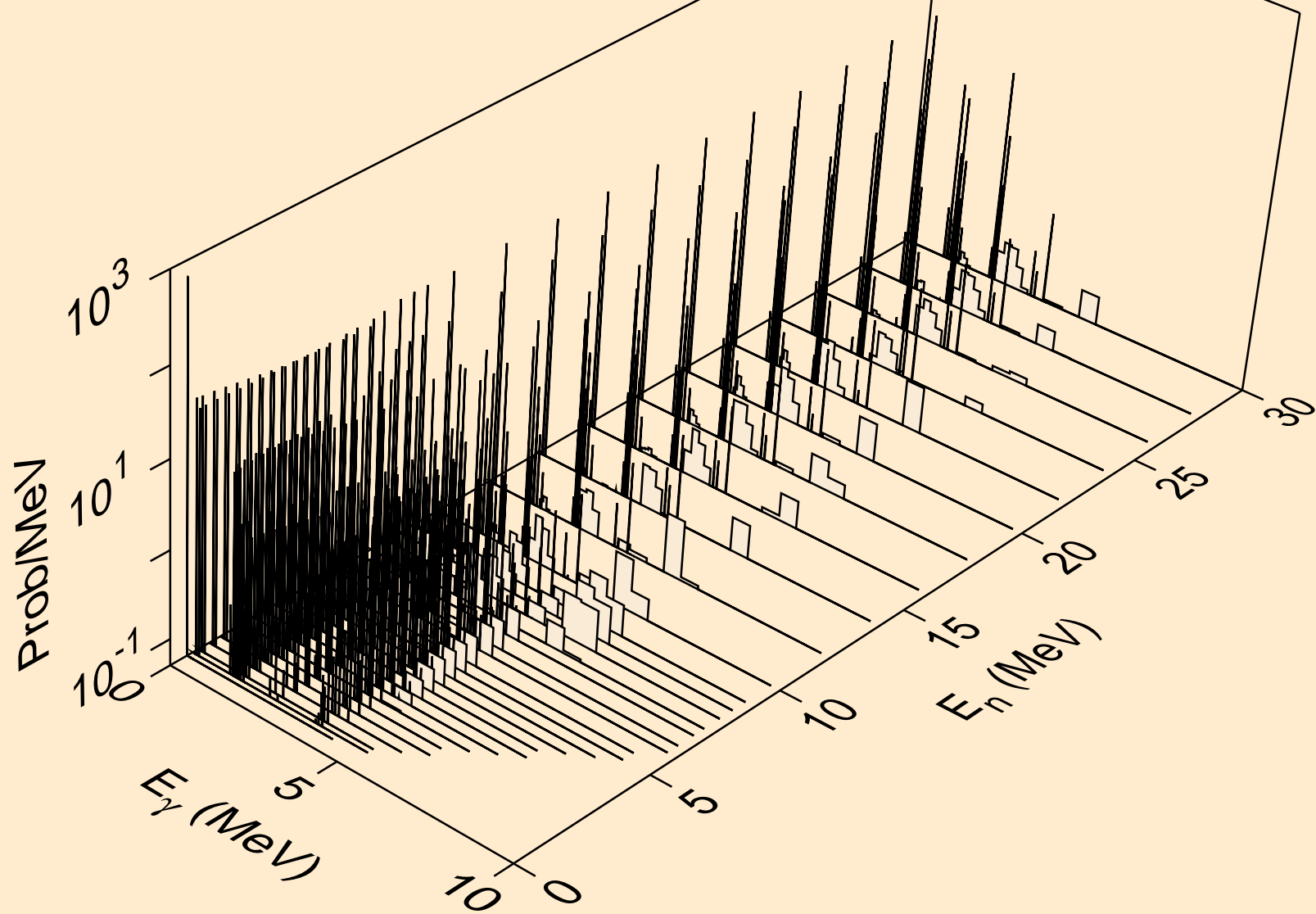


NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)

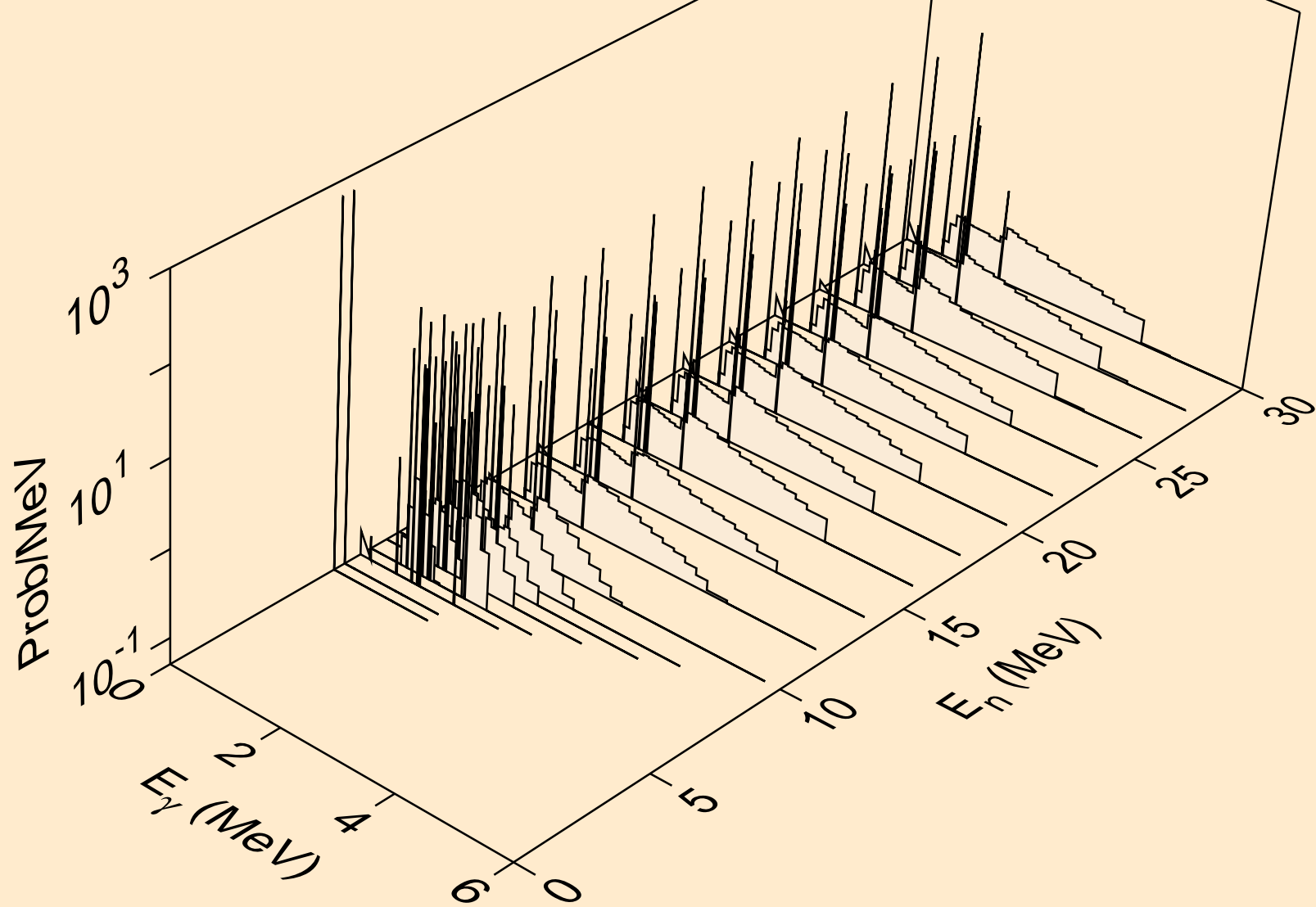




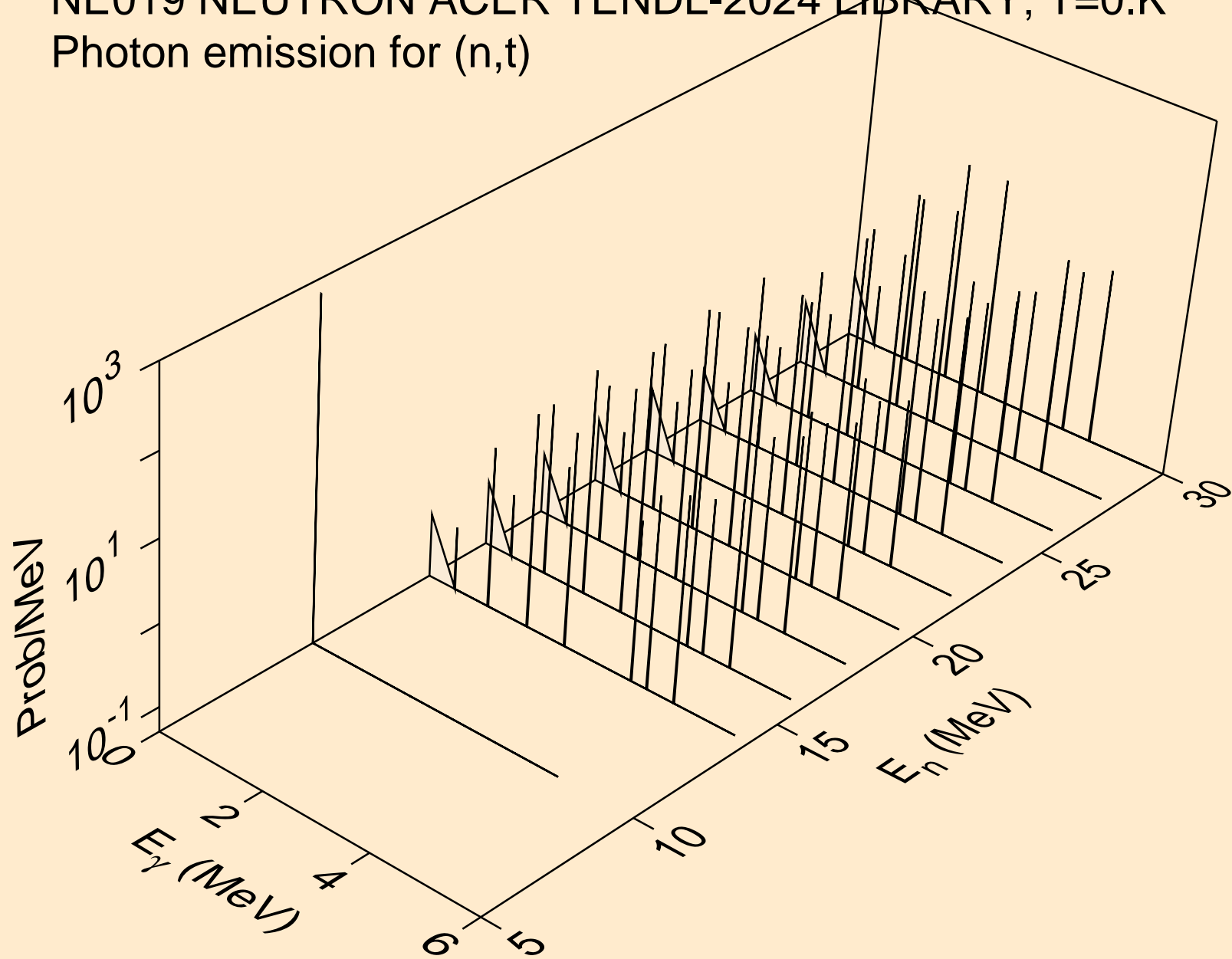
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Photon emission for (n,p)



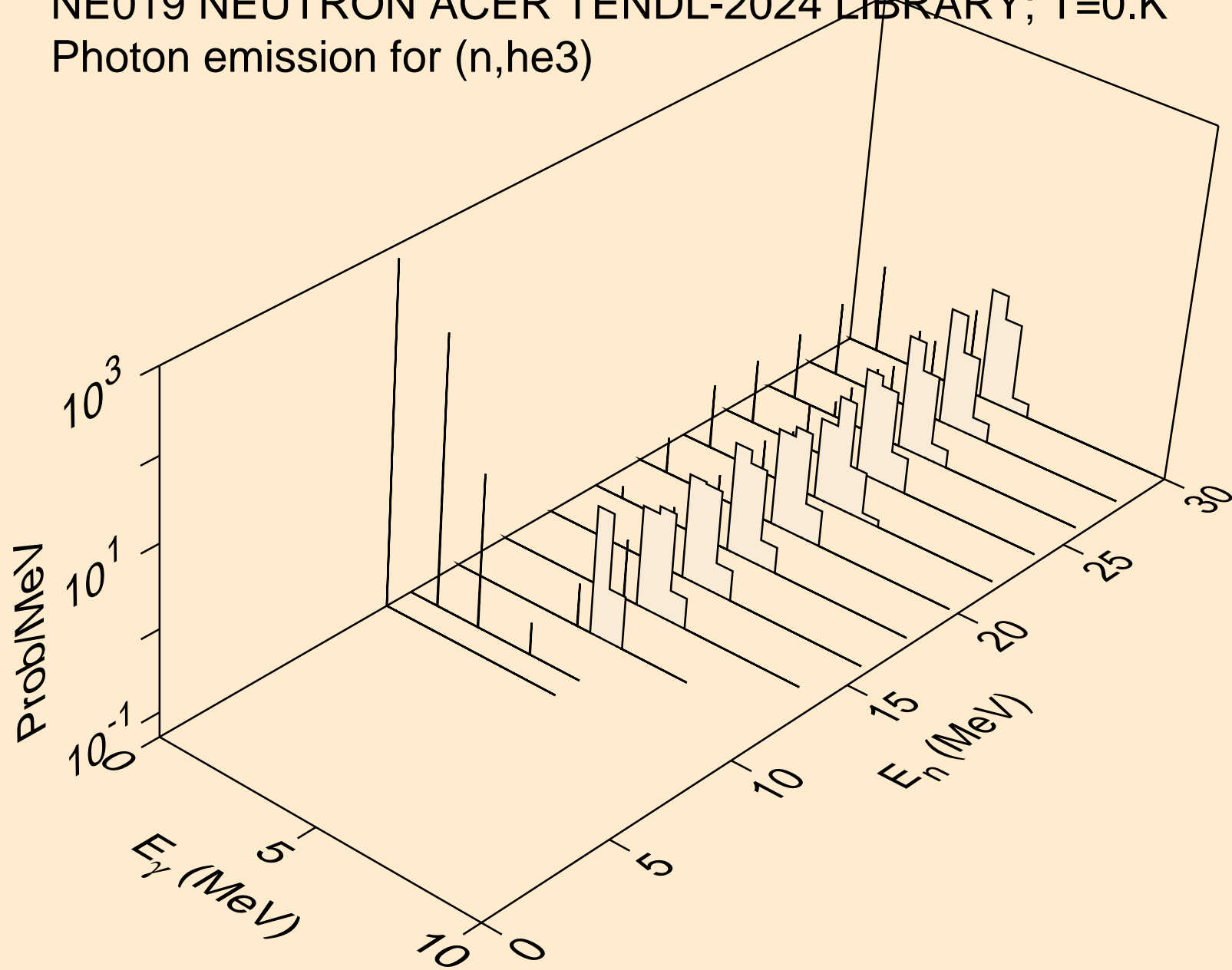
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)



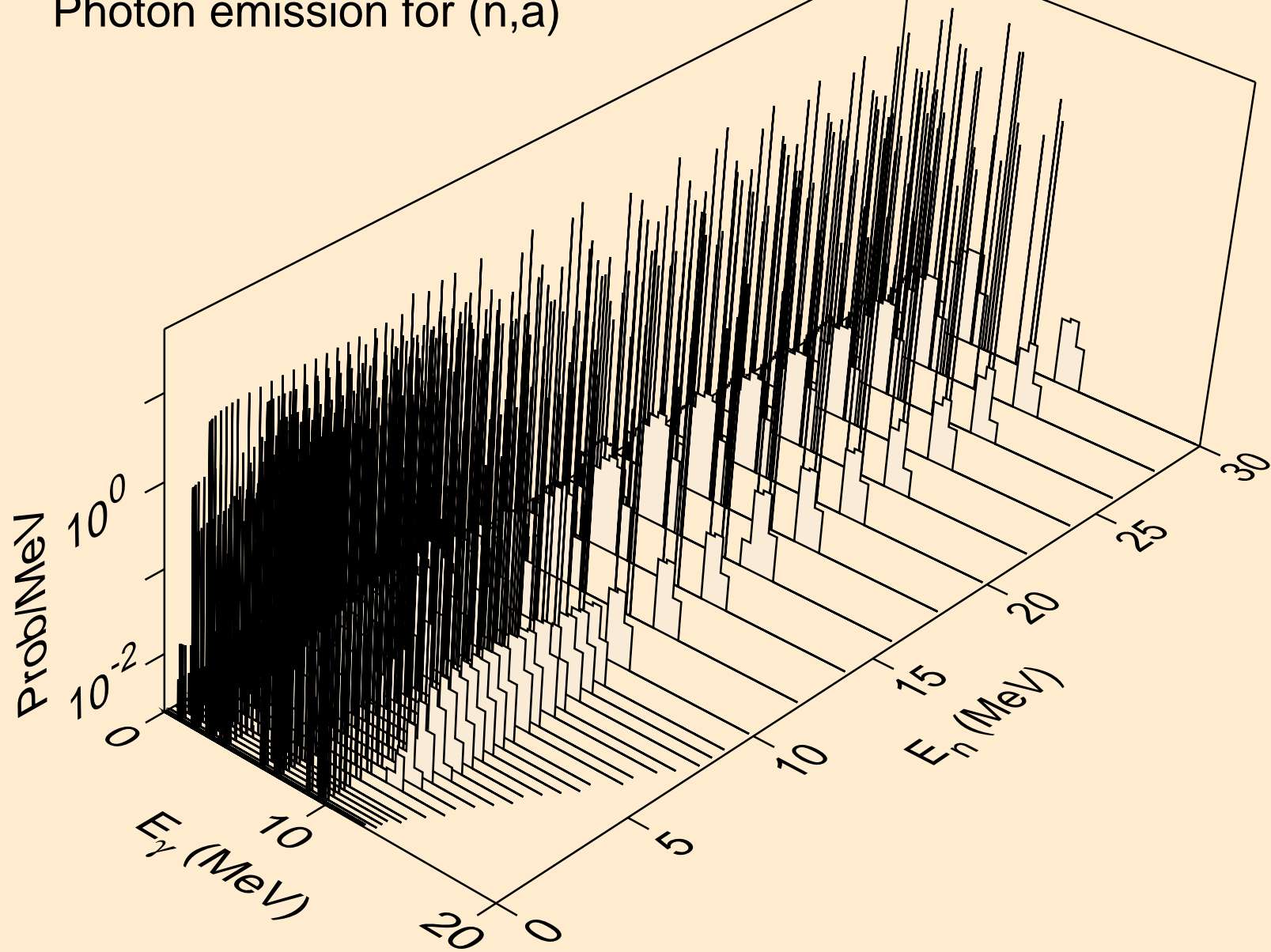
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Photon emission for (n,t)



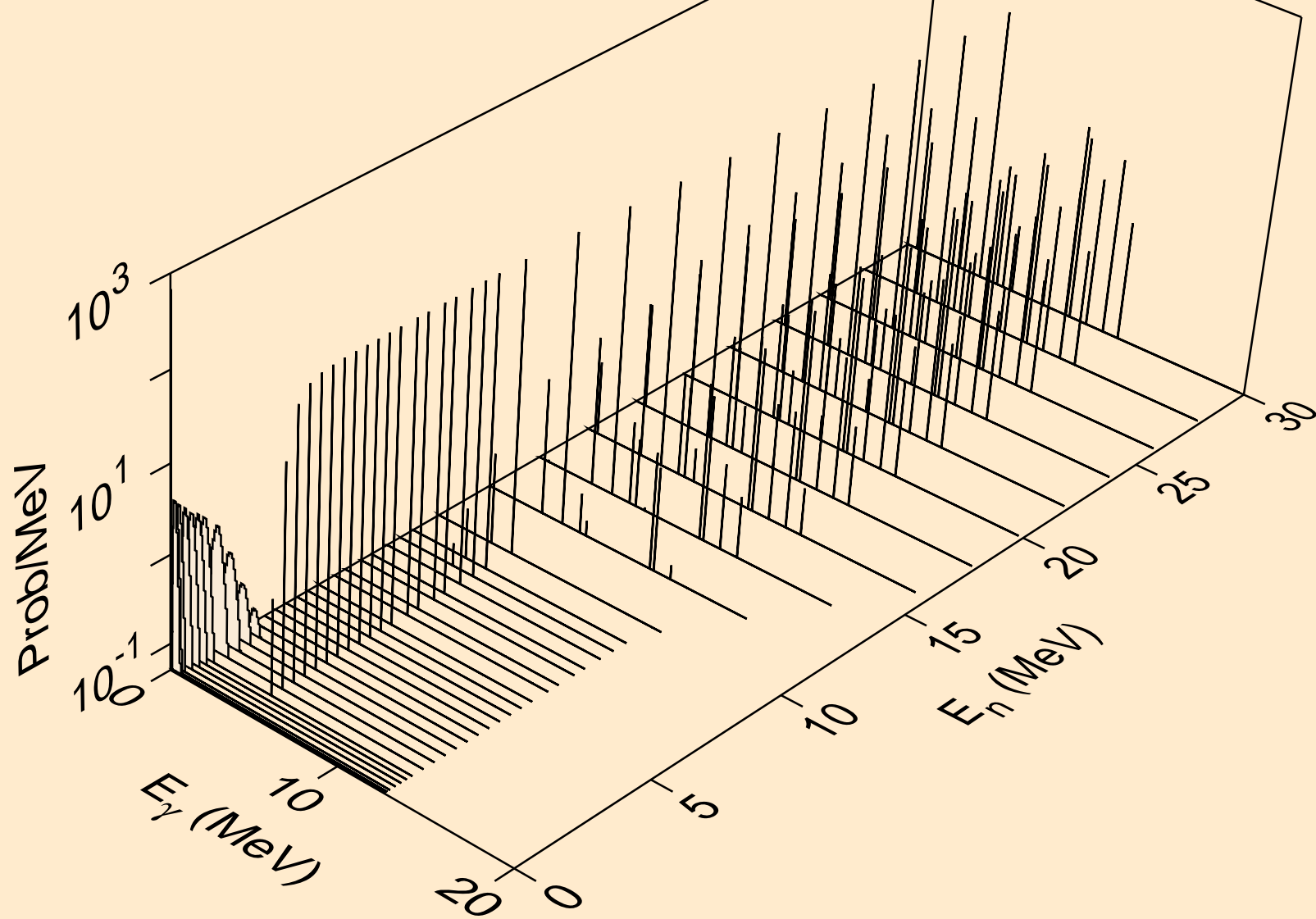
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Photon emission for (n,he3)



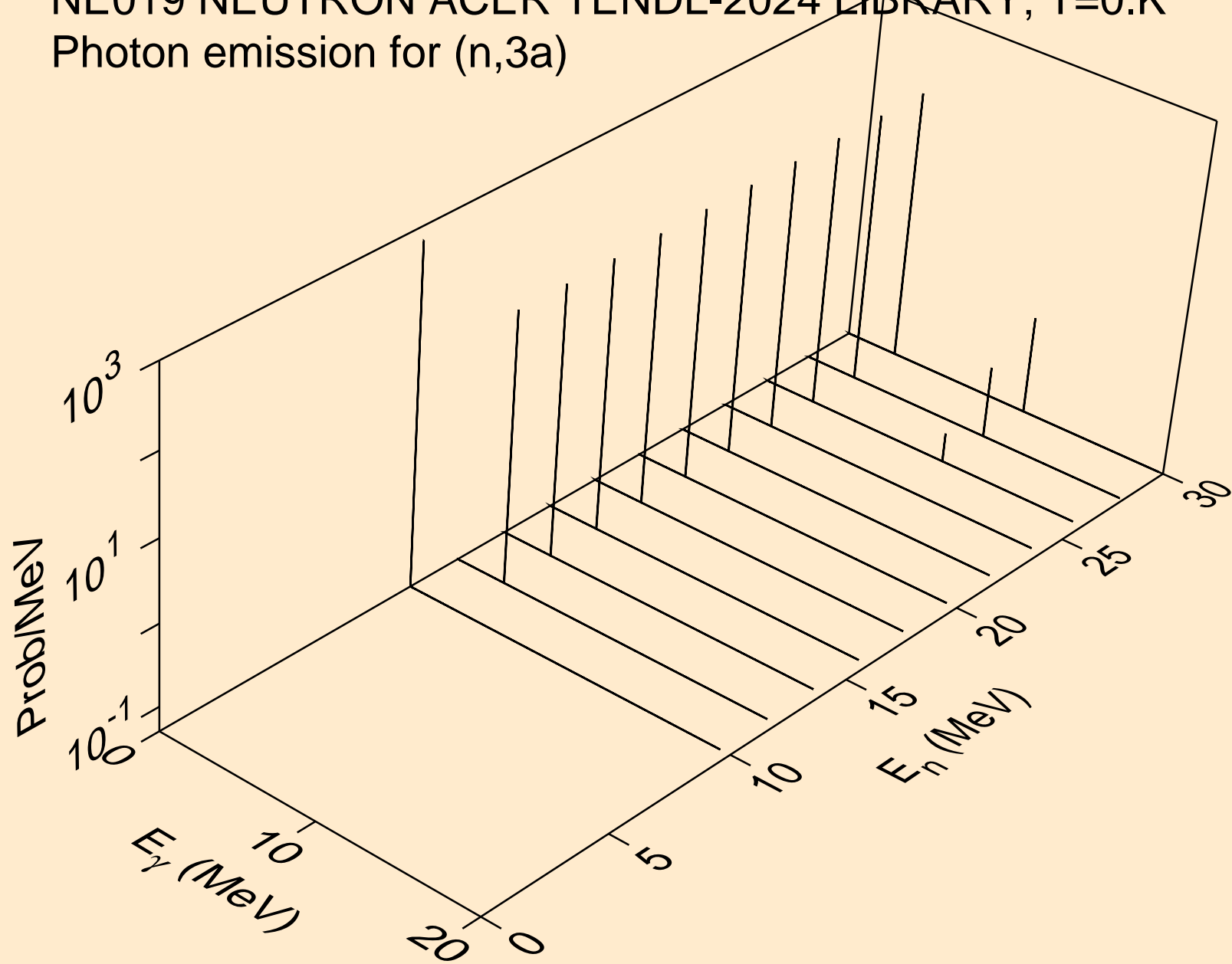
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Photon emission for (n,a)



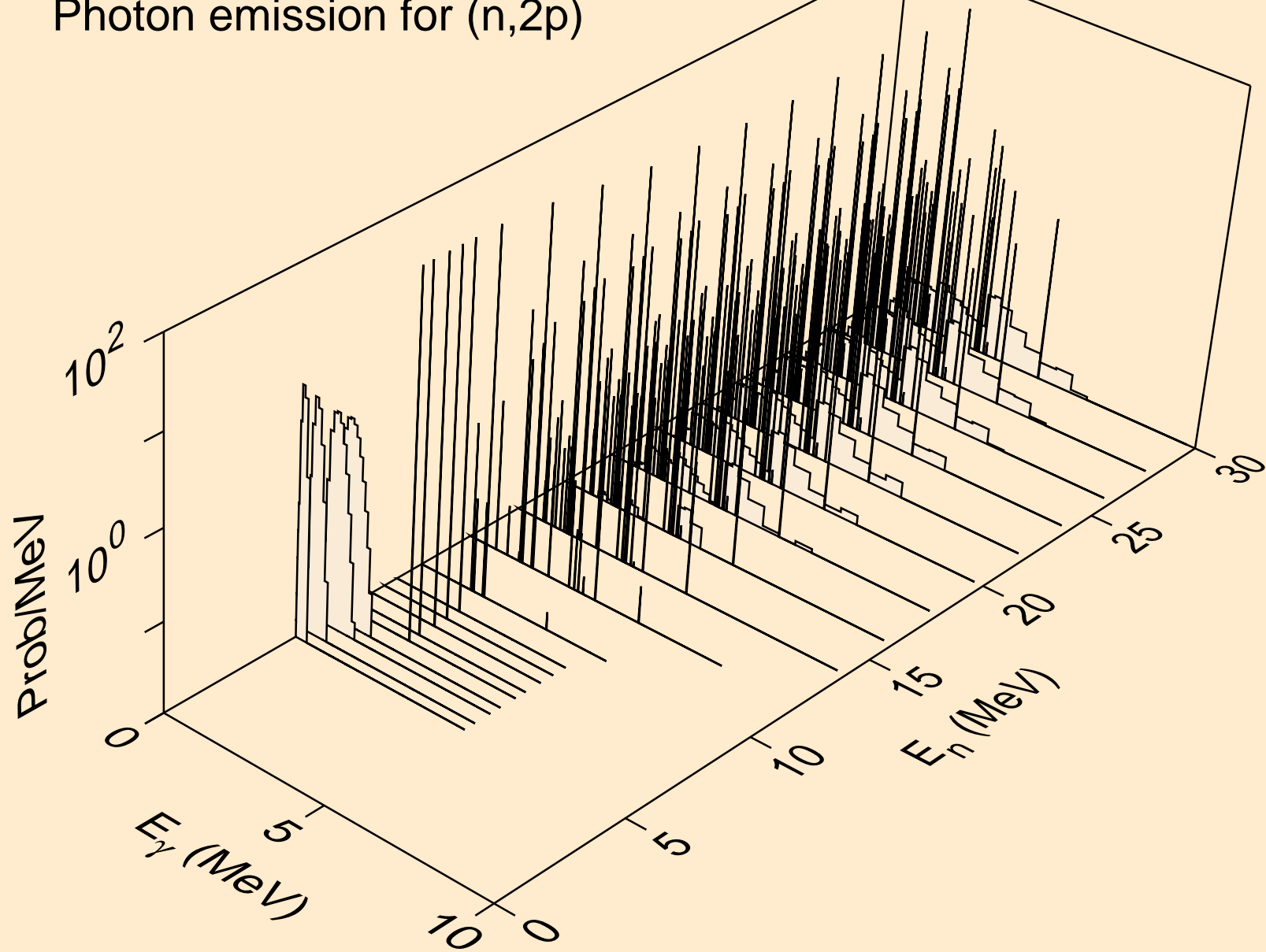
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2a)



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3a)

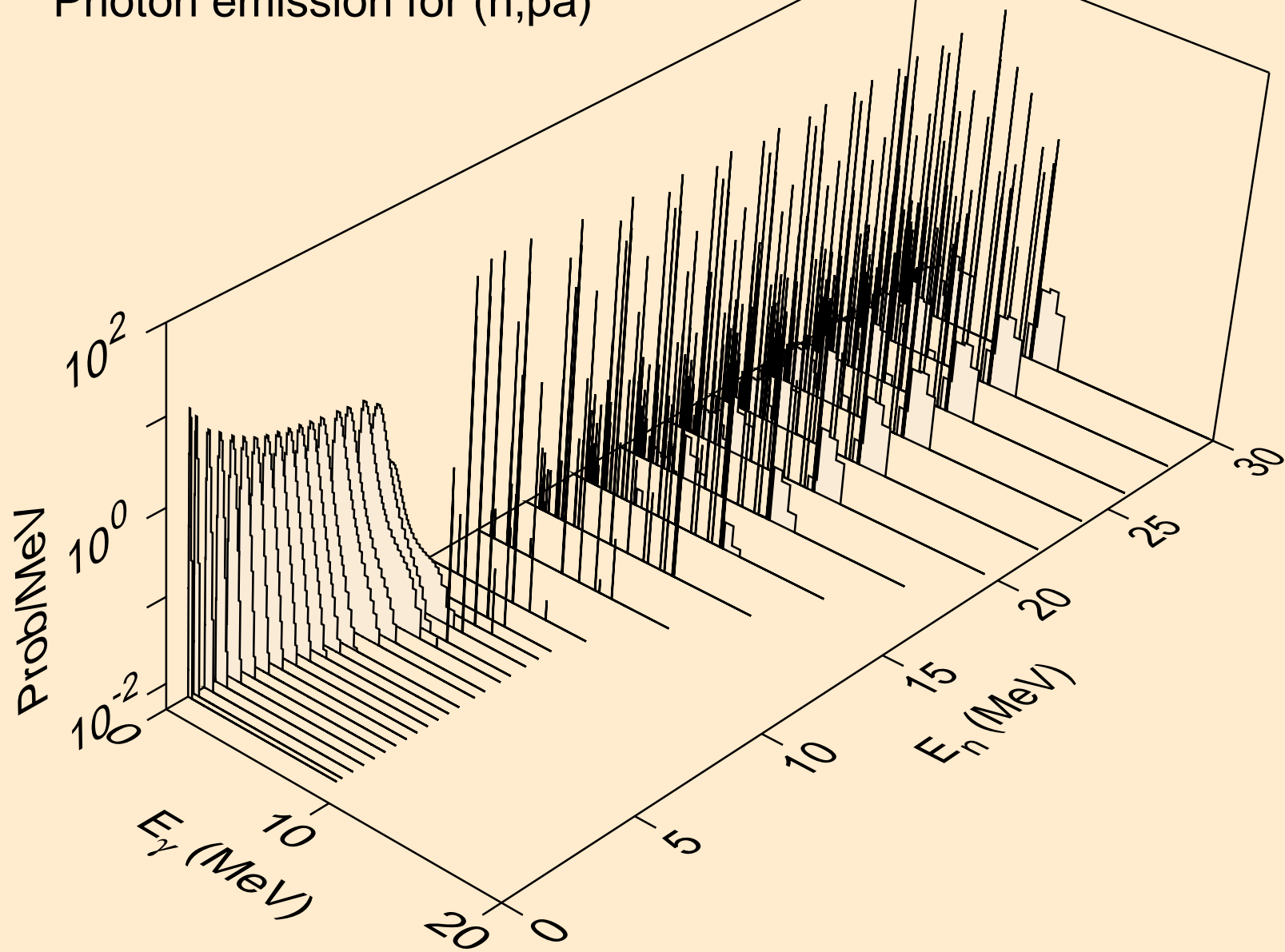


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Photon emission for (n,2p)

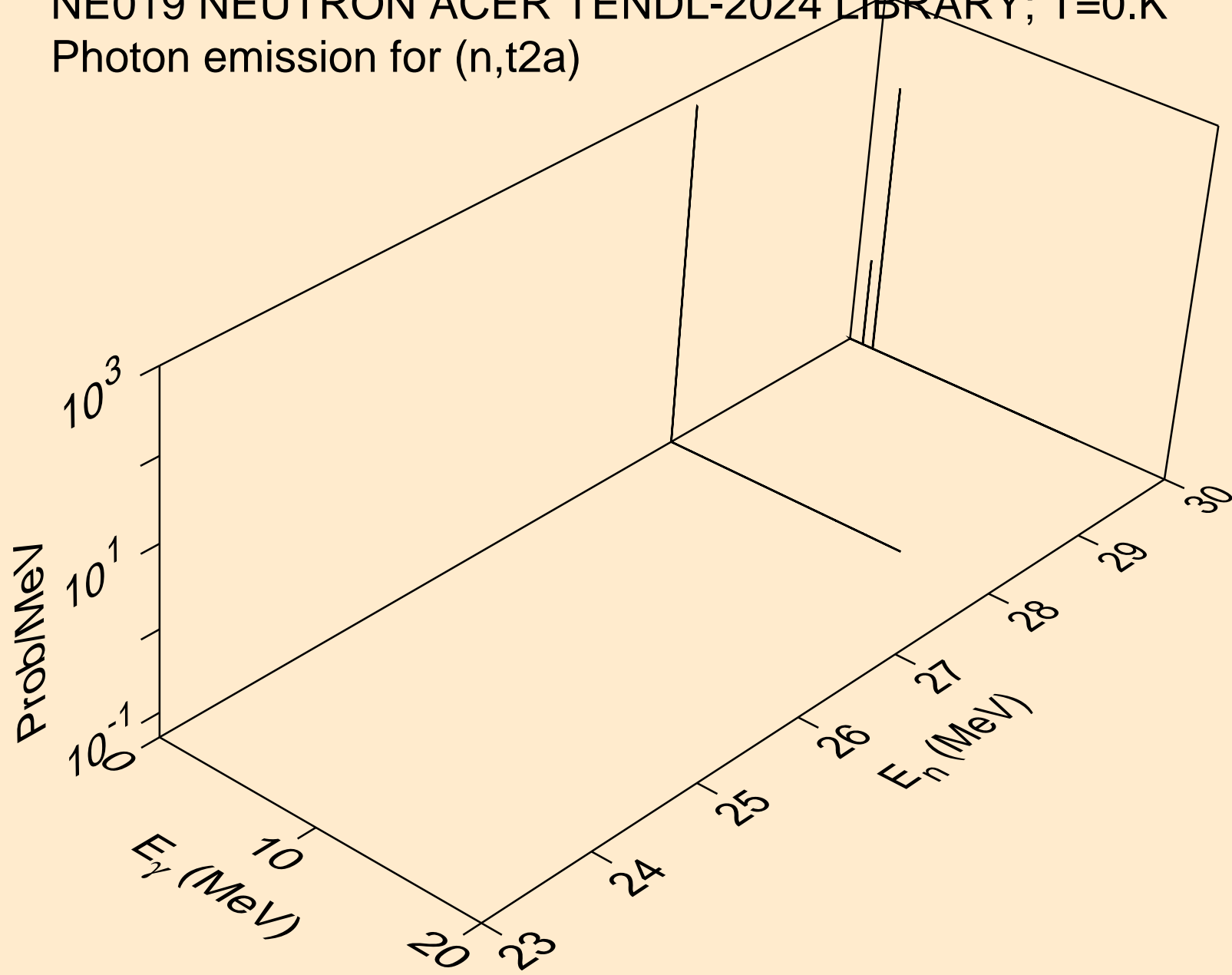




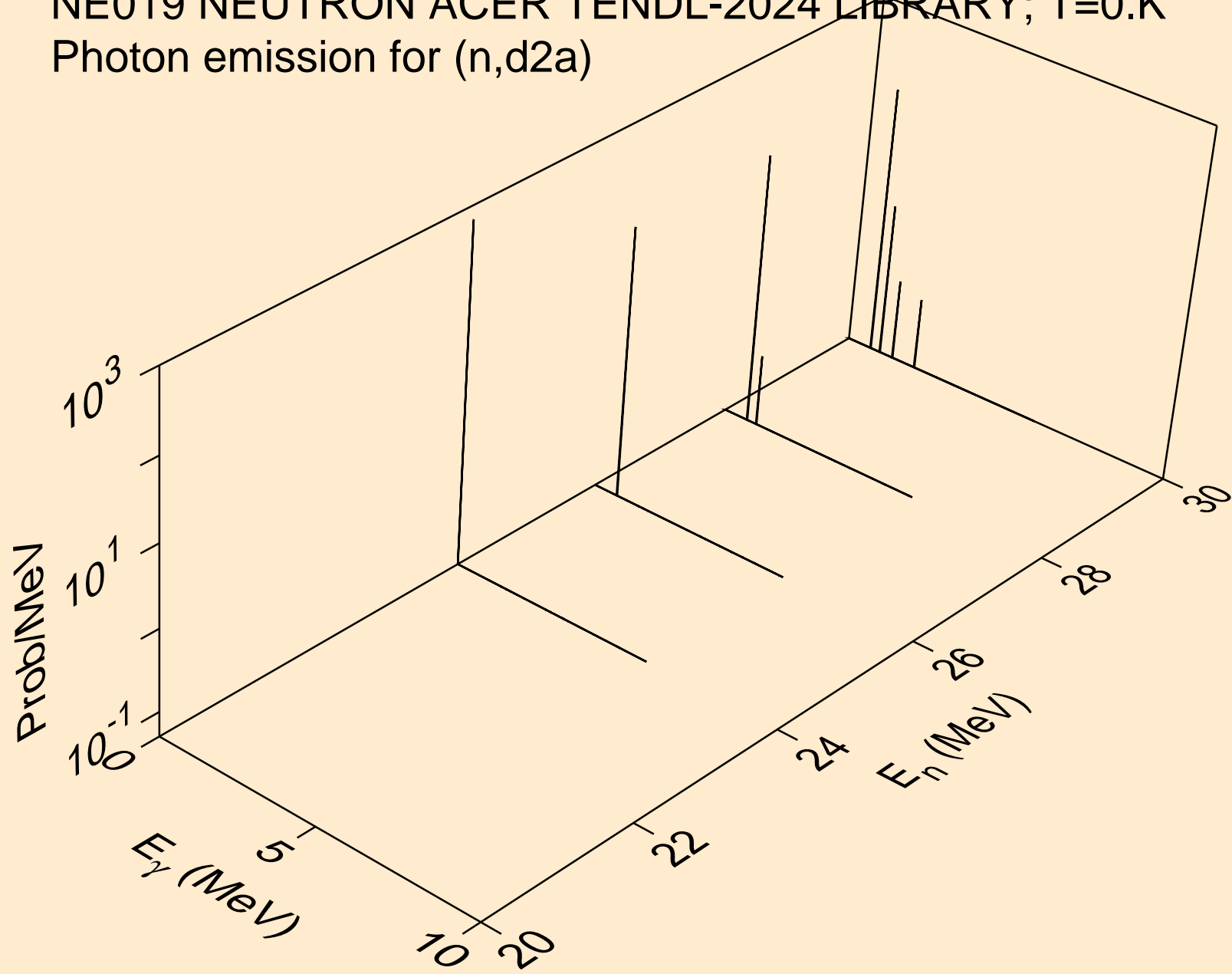
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Photon emission for (n,p $\alpha$ )



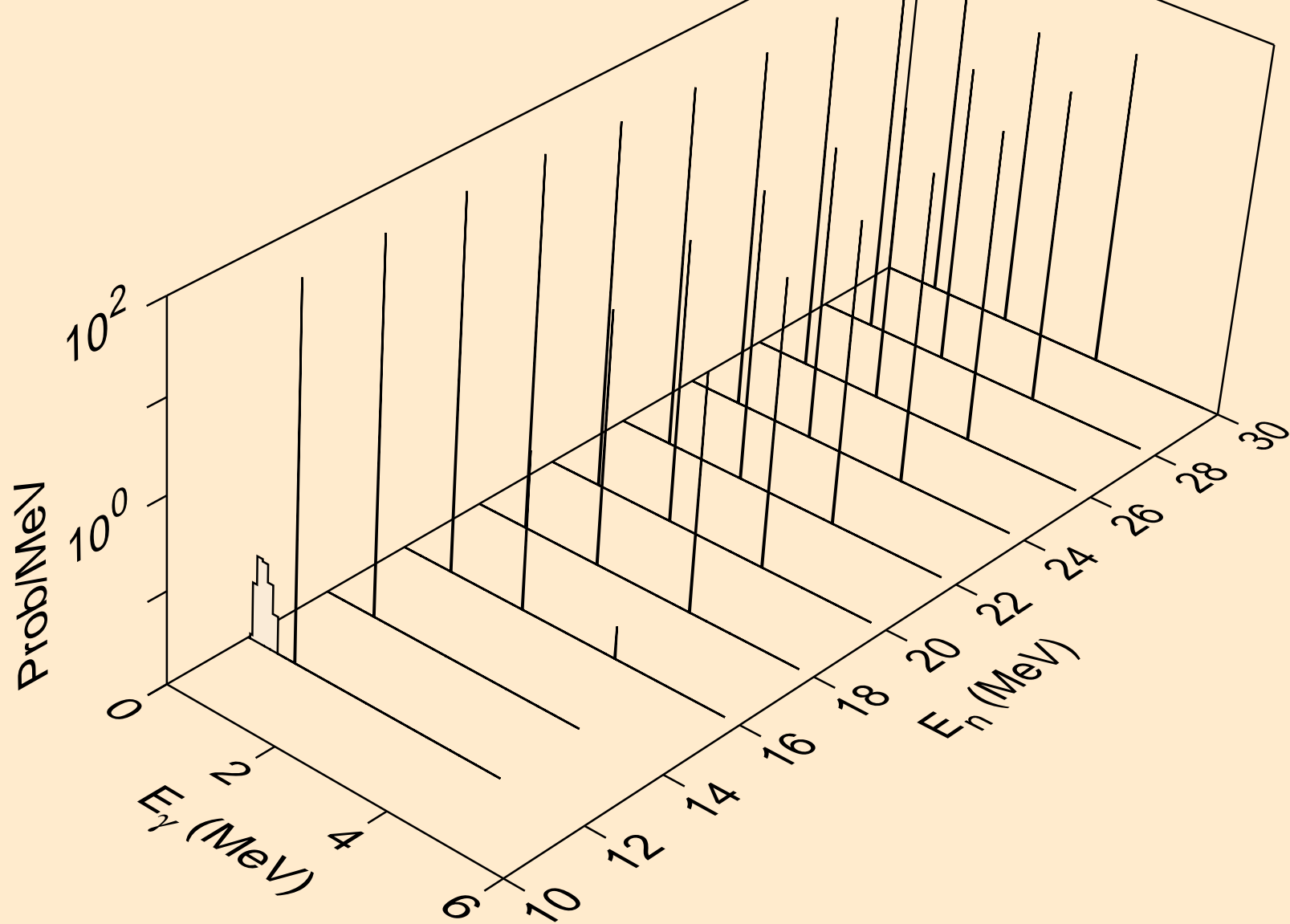
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t2a)



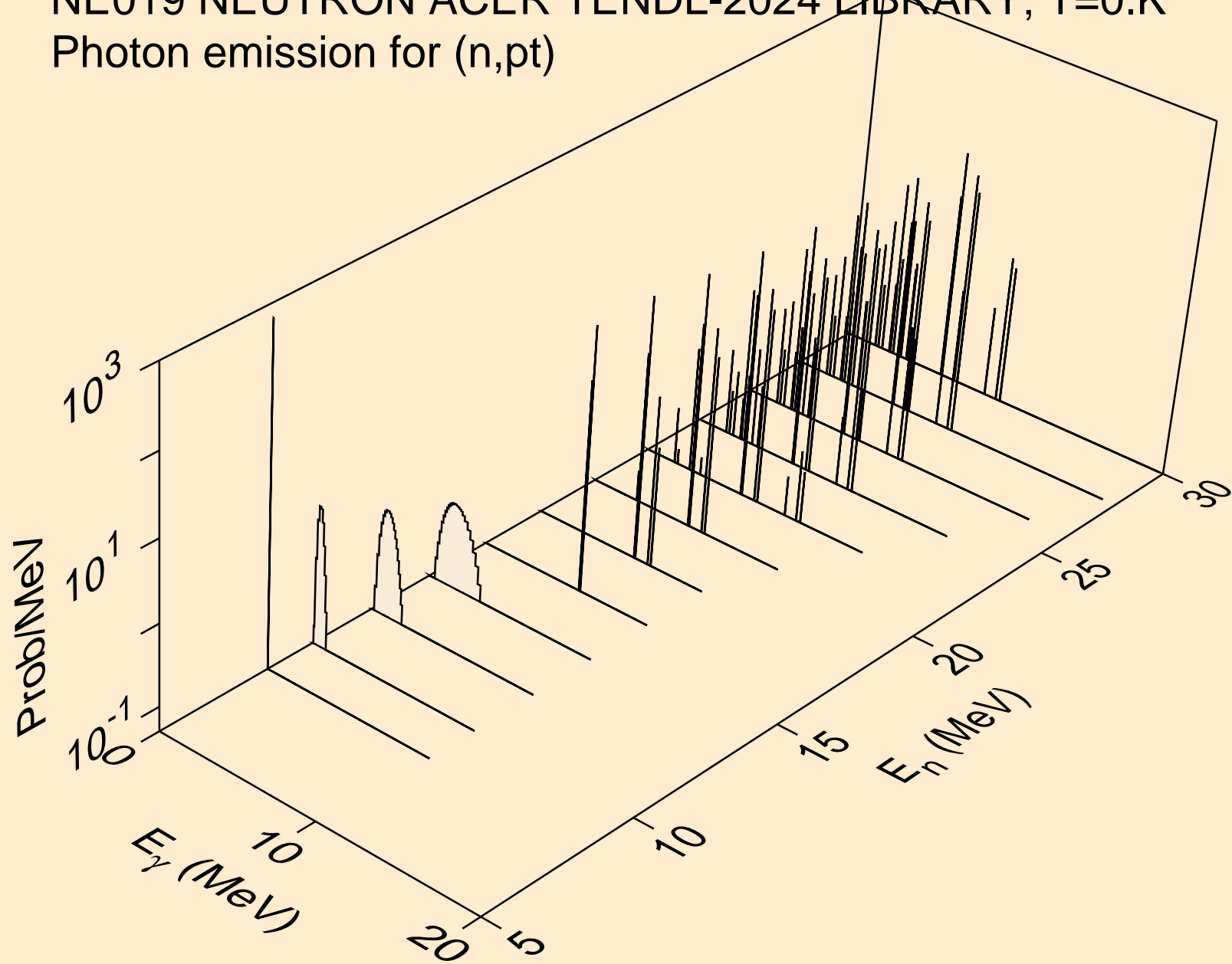
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d2a)



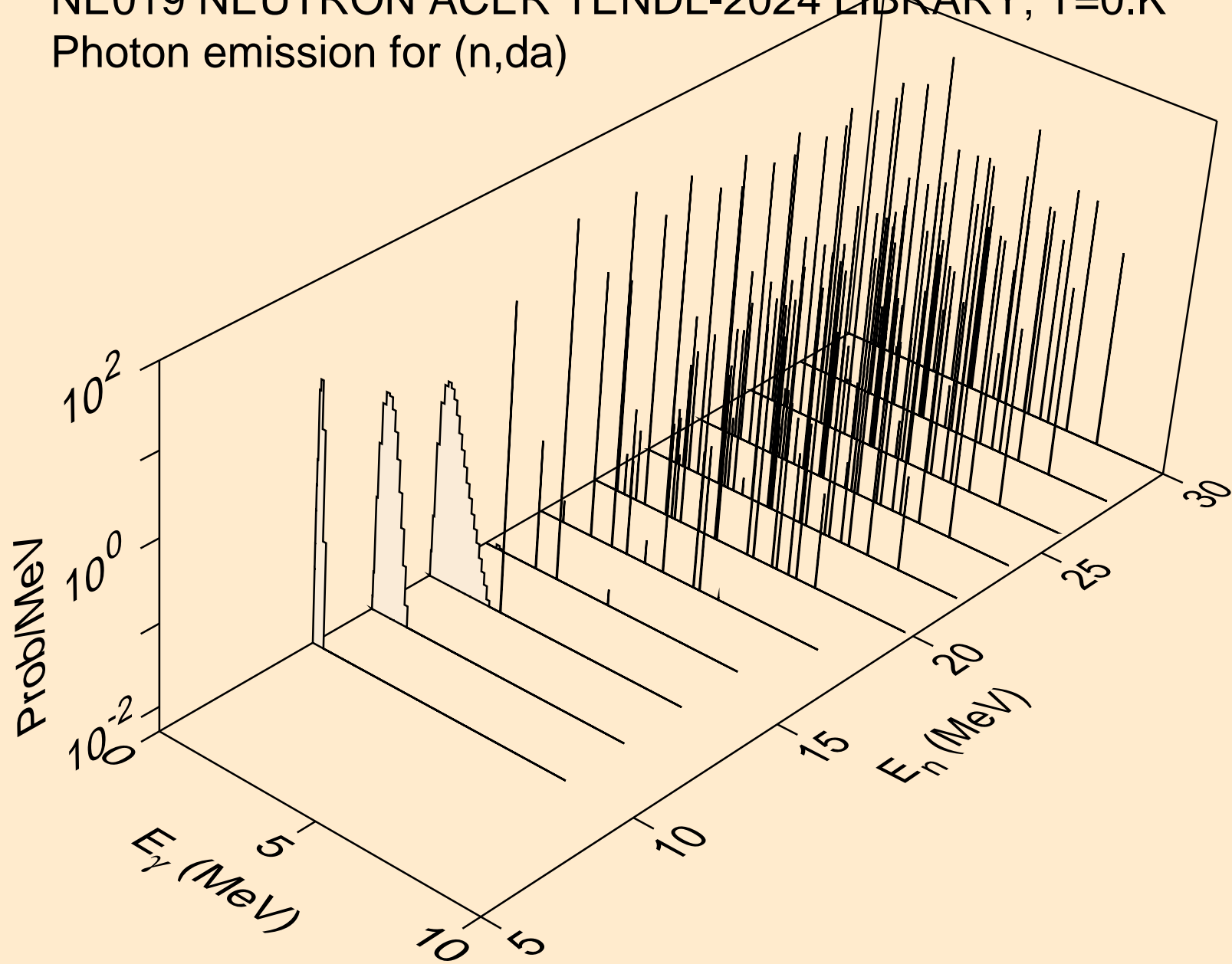
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)



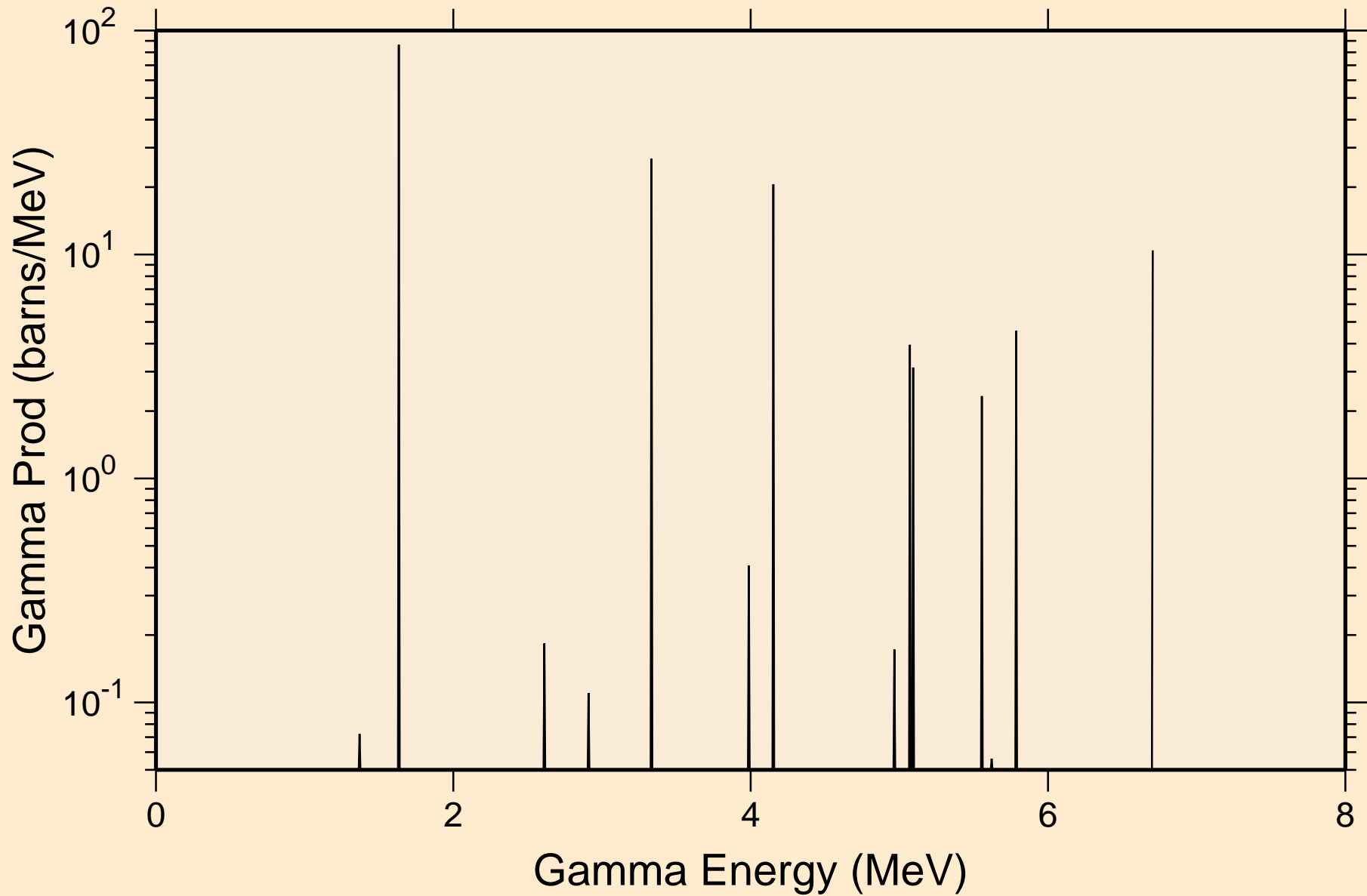
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)



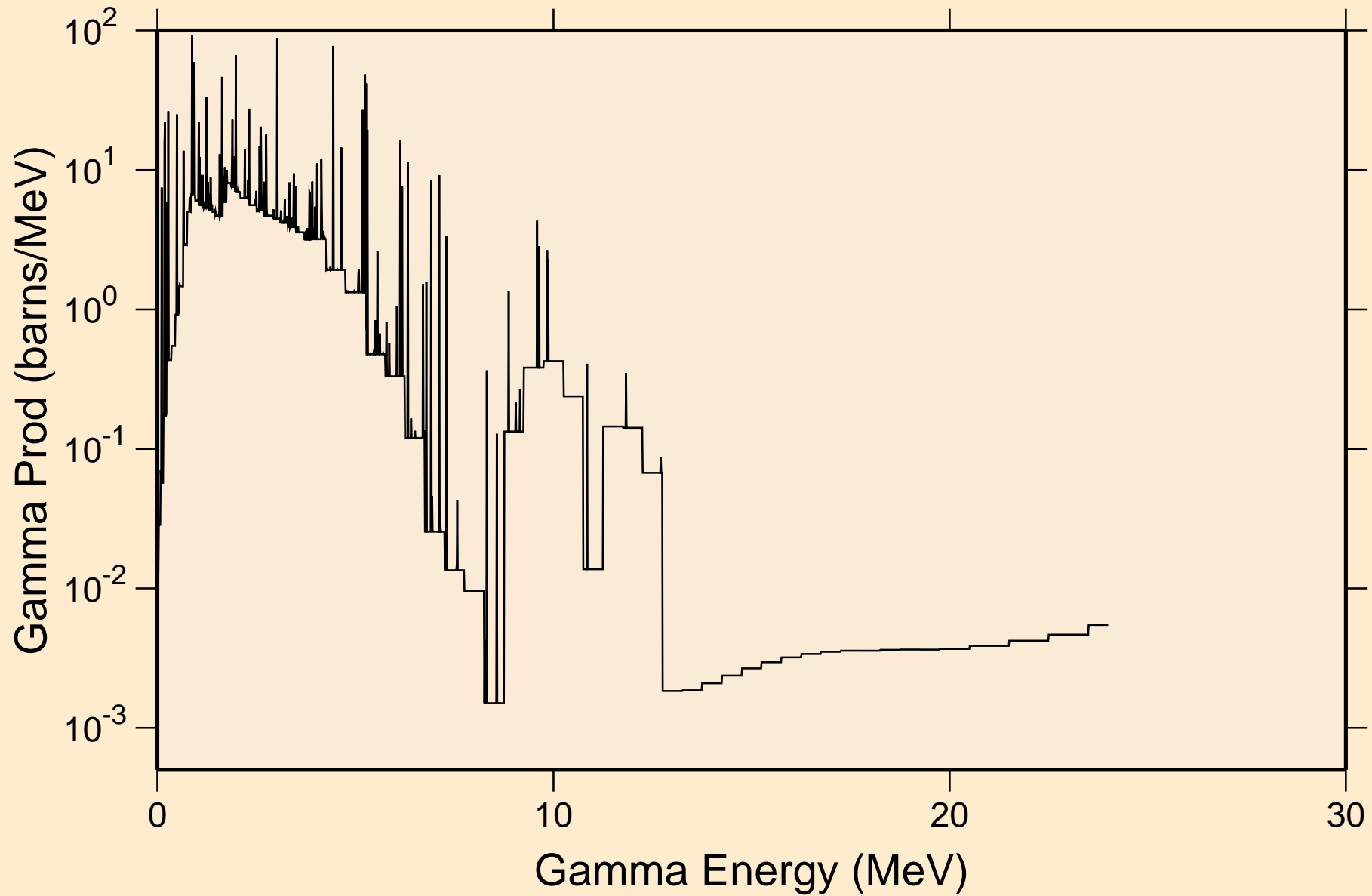
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum



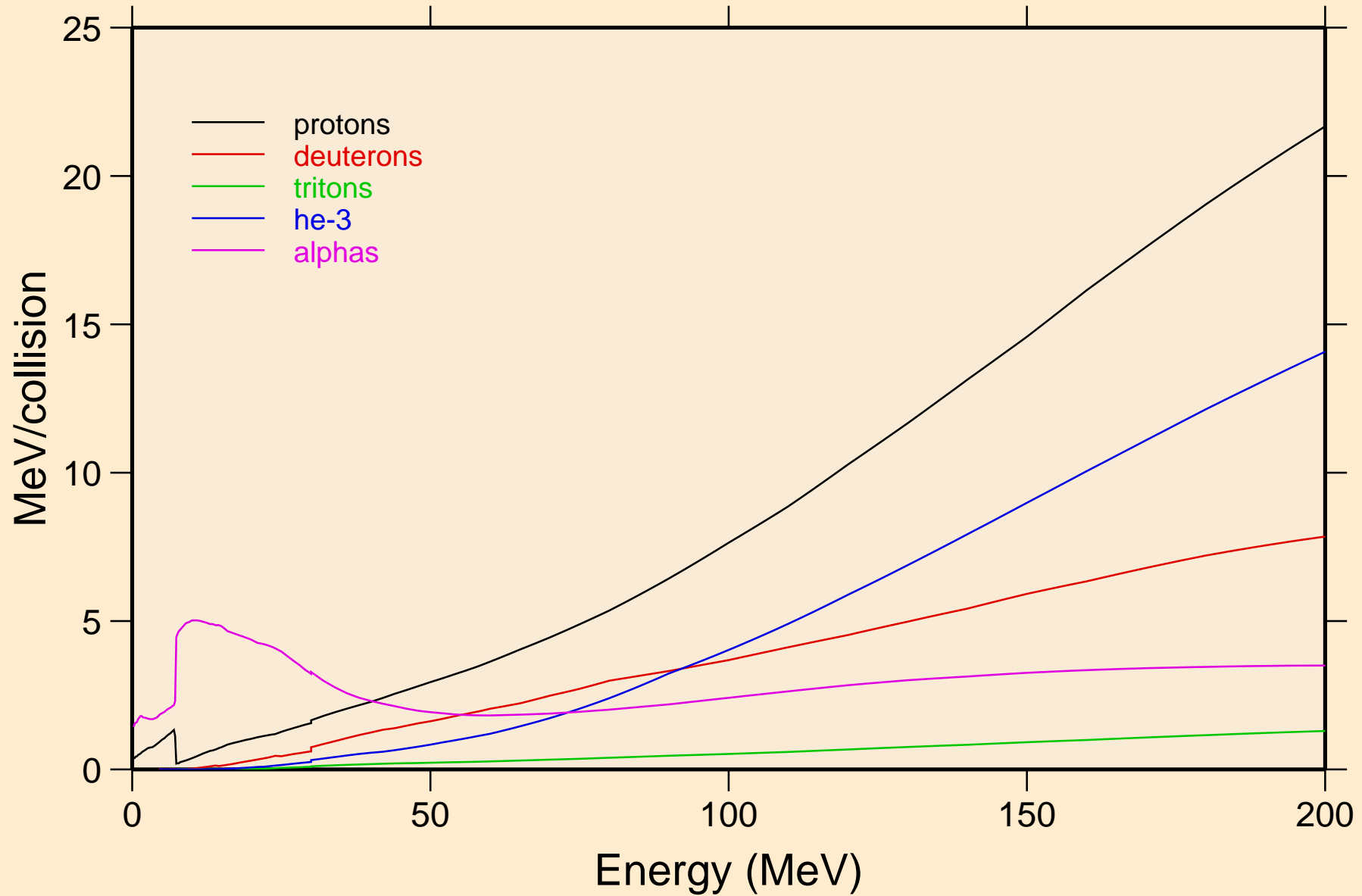
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum



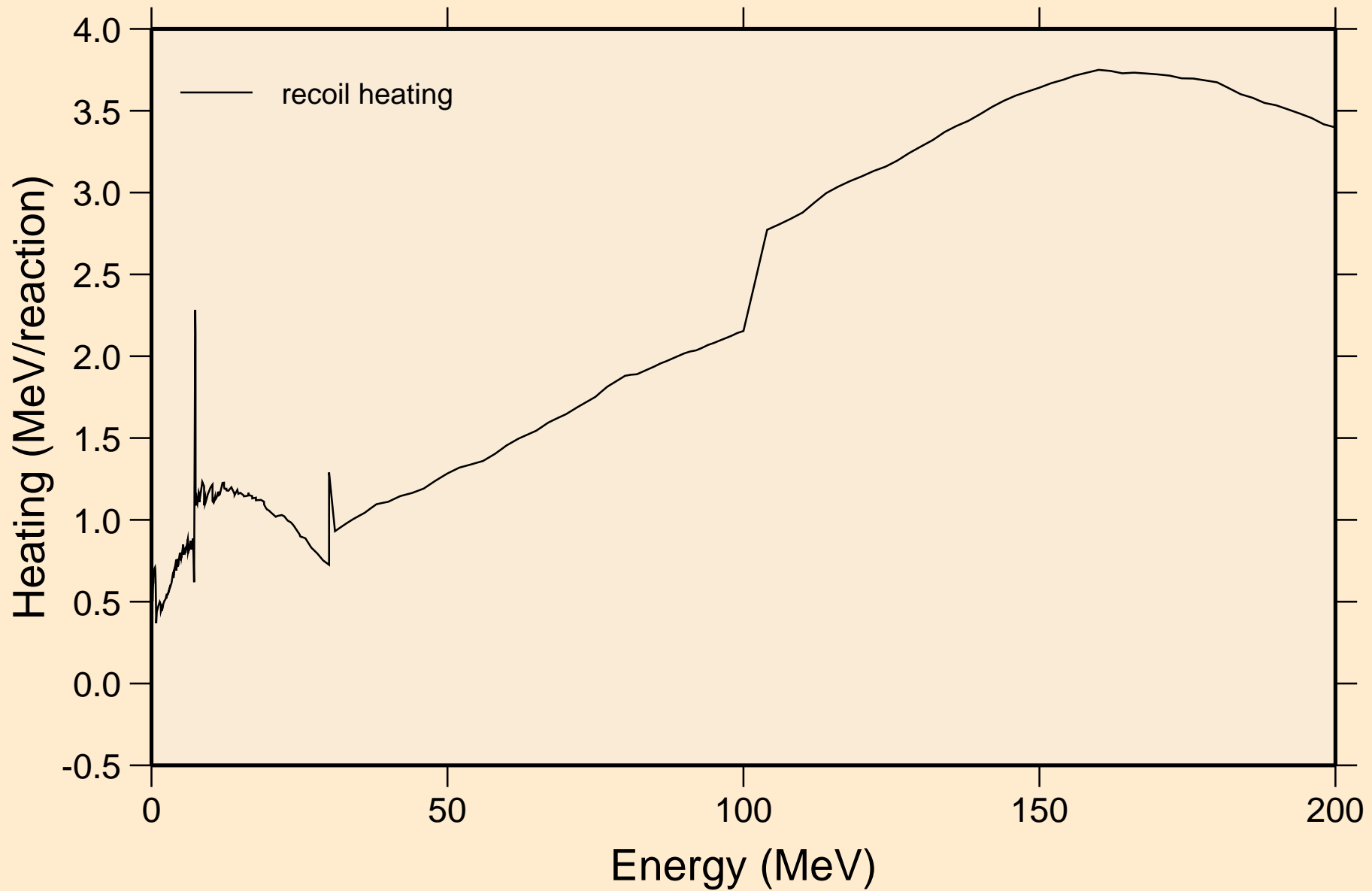


# NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Particle heating contributions

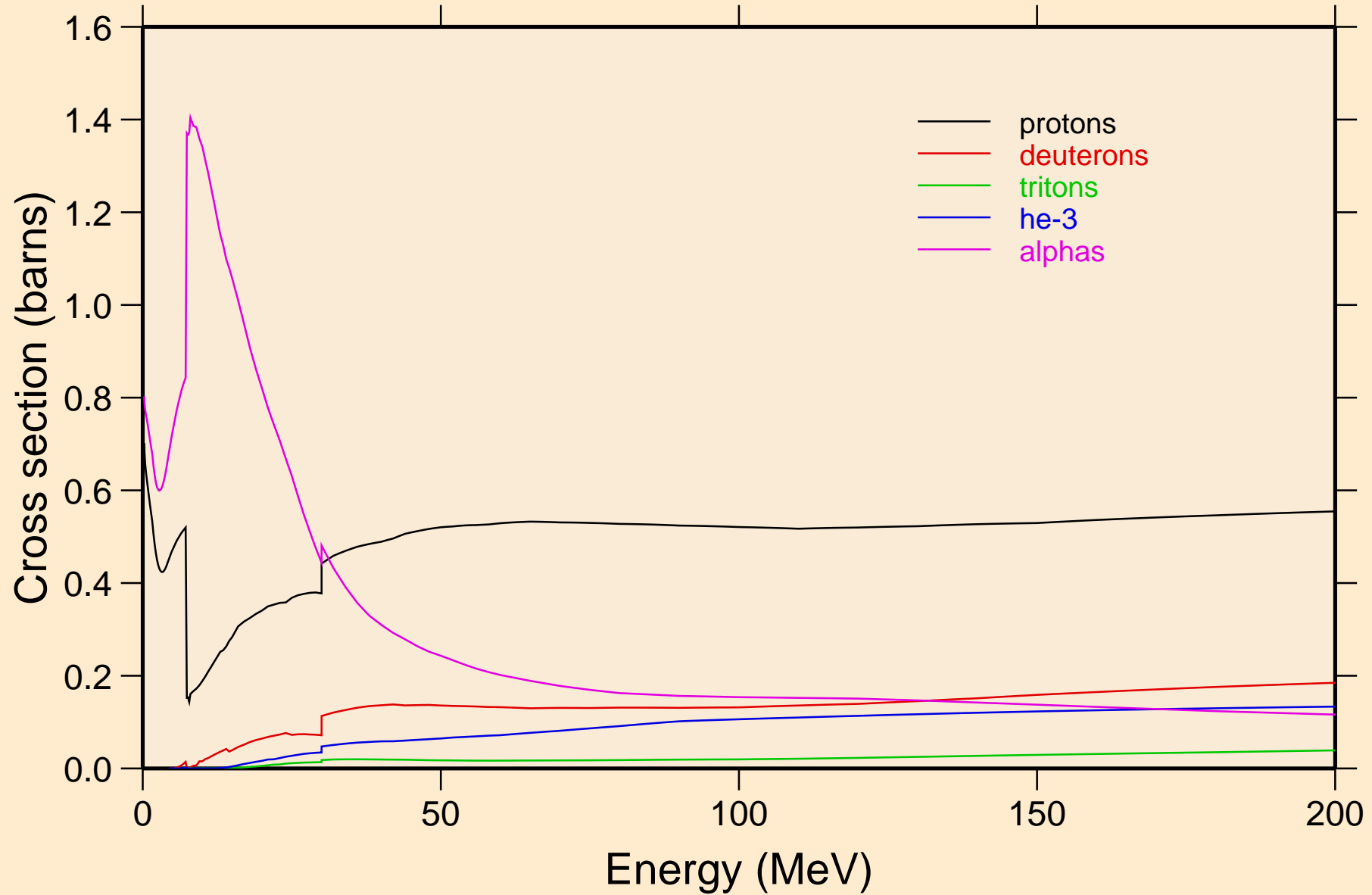


NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Recoil Heating

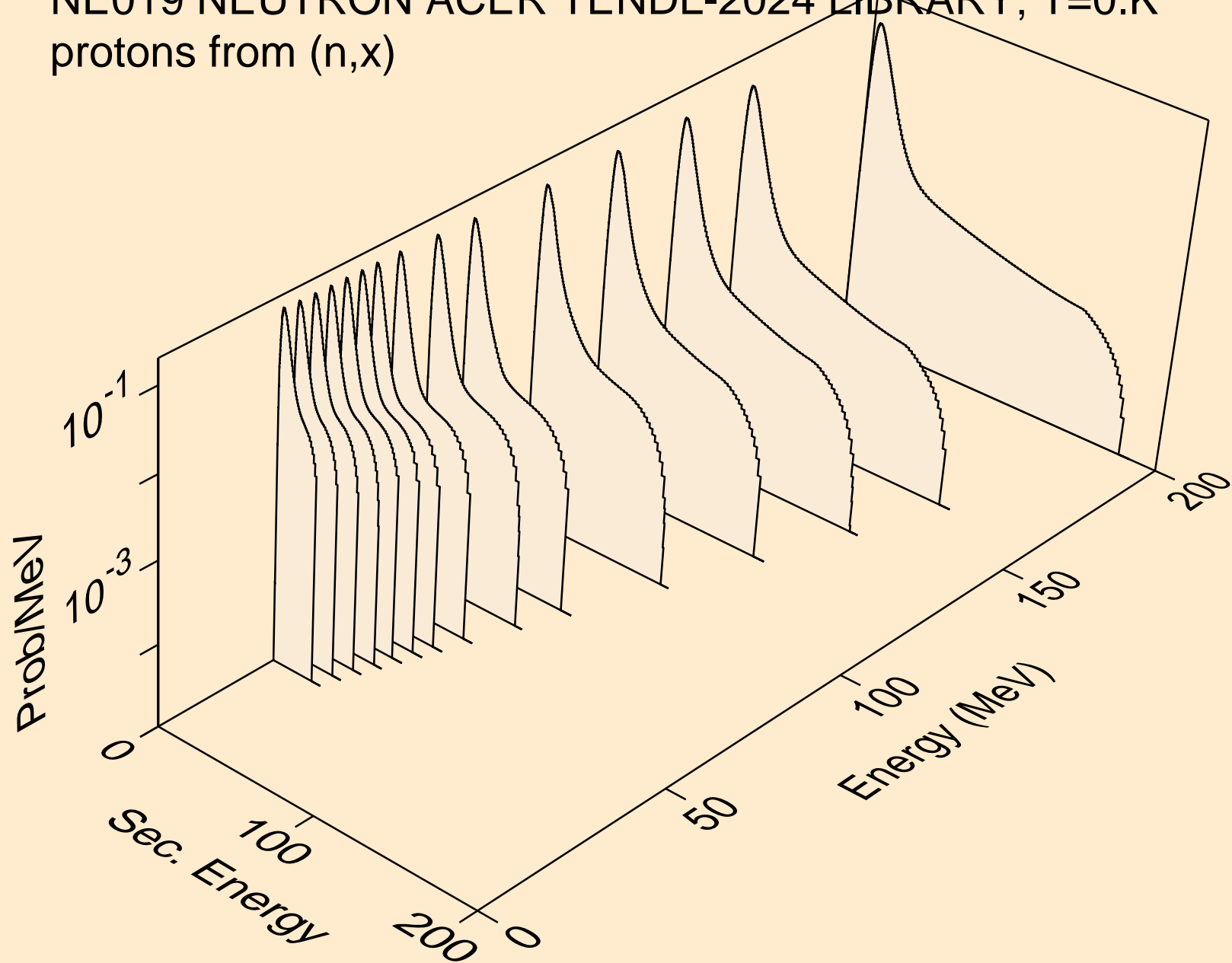


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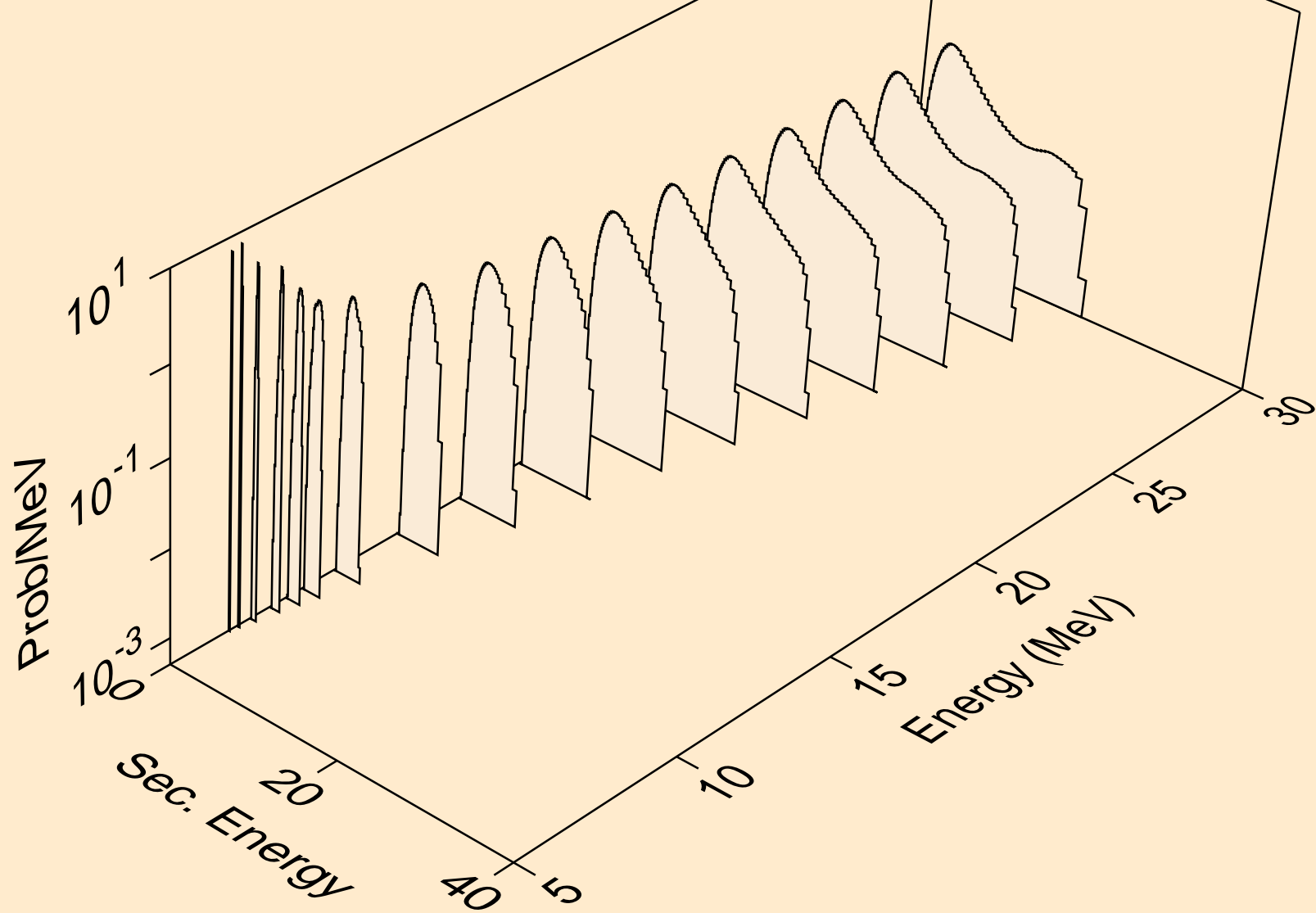
## Particle production cross sections



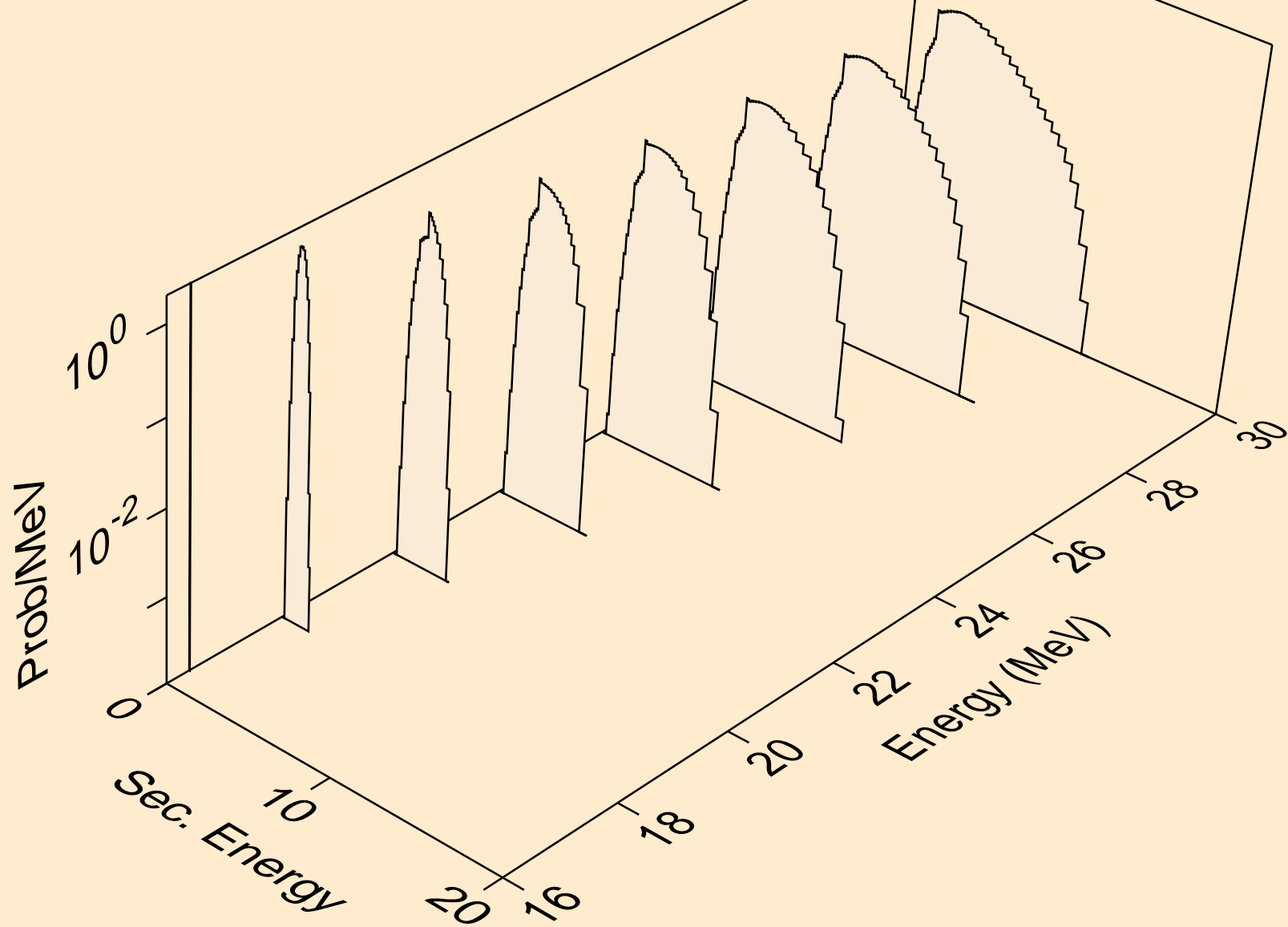
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)



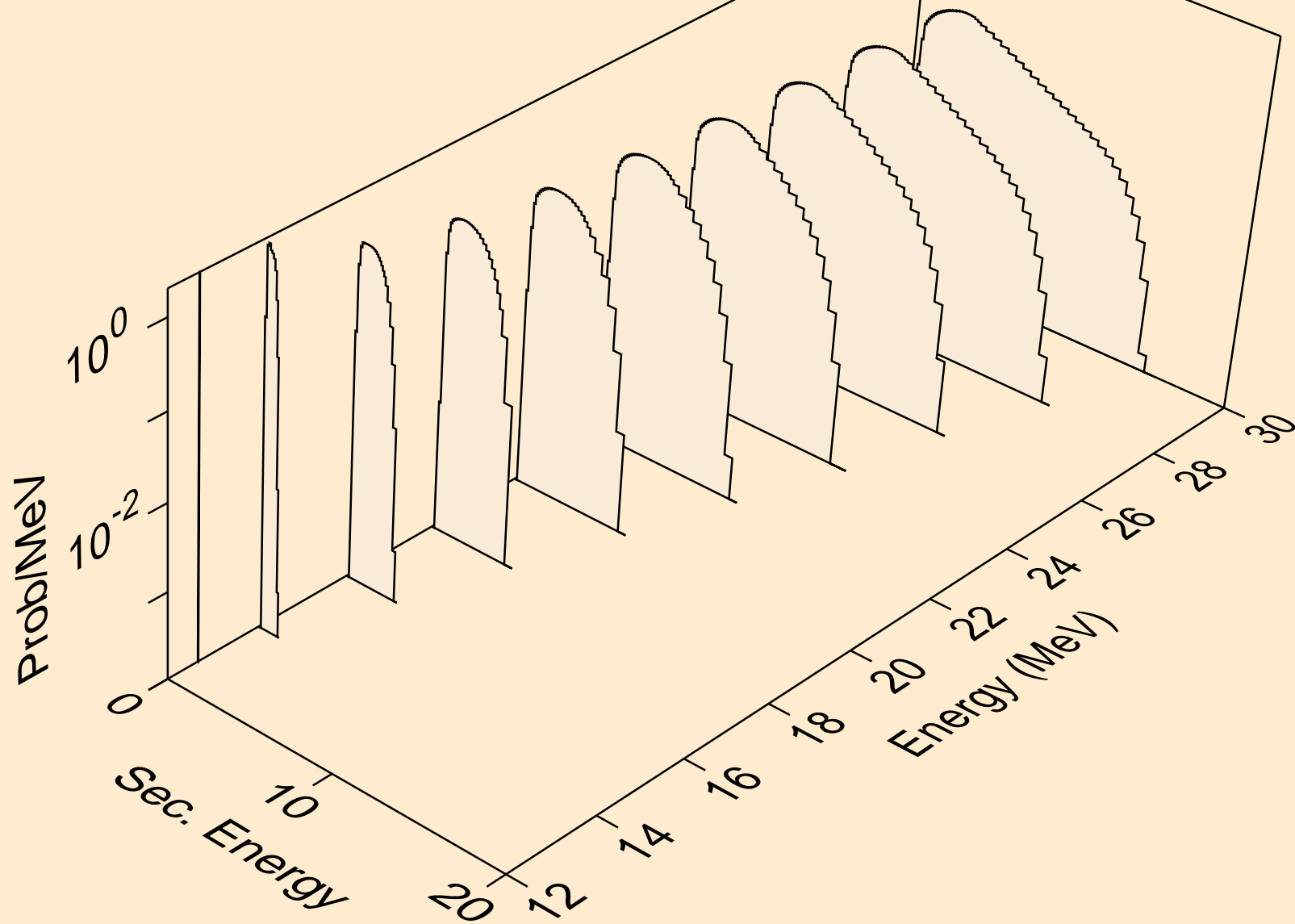
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n\*)p



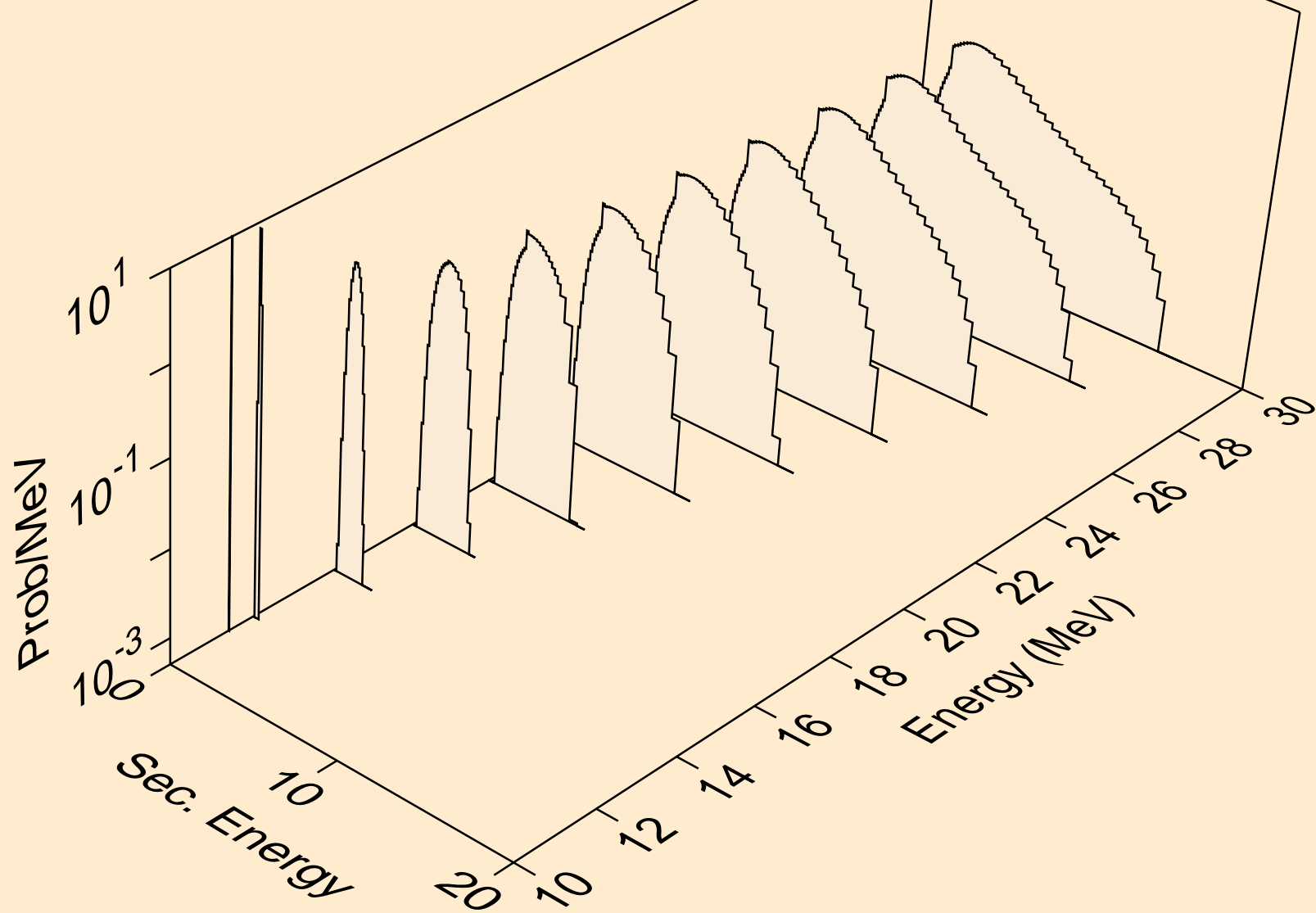
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protons from (n,2np)



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n2p)

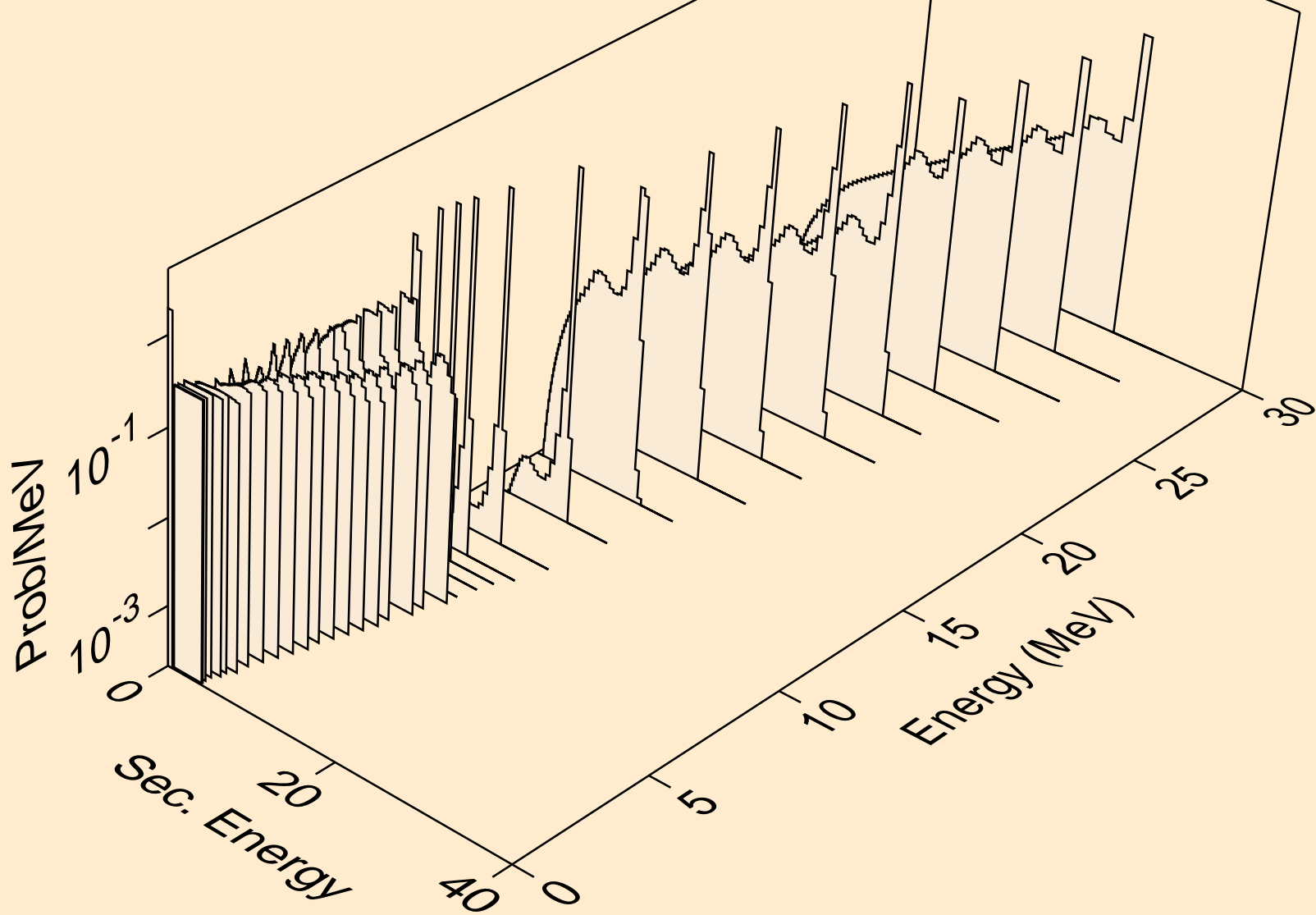


NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,npa)

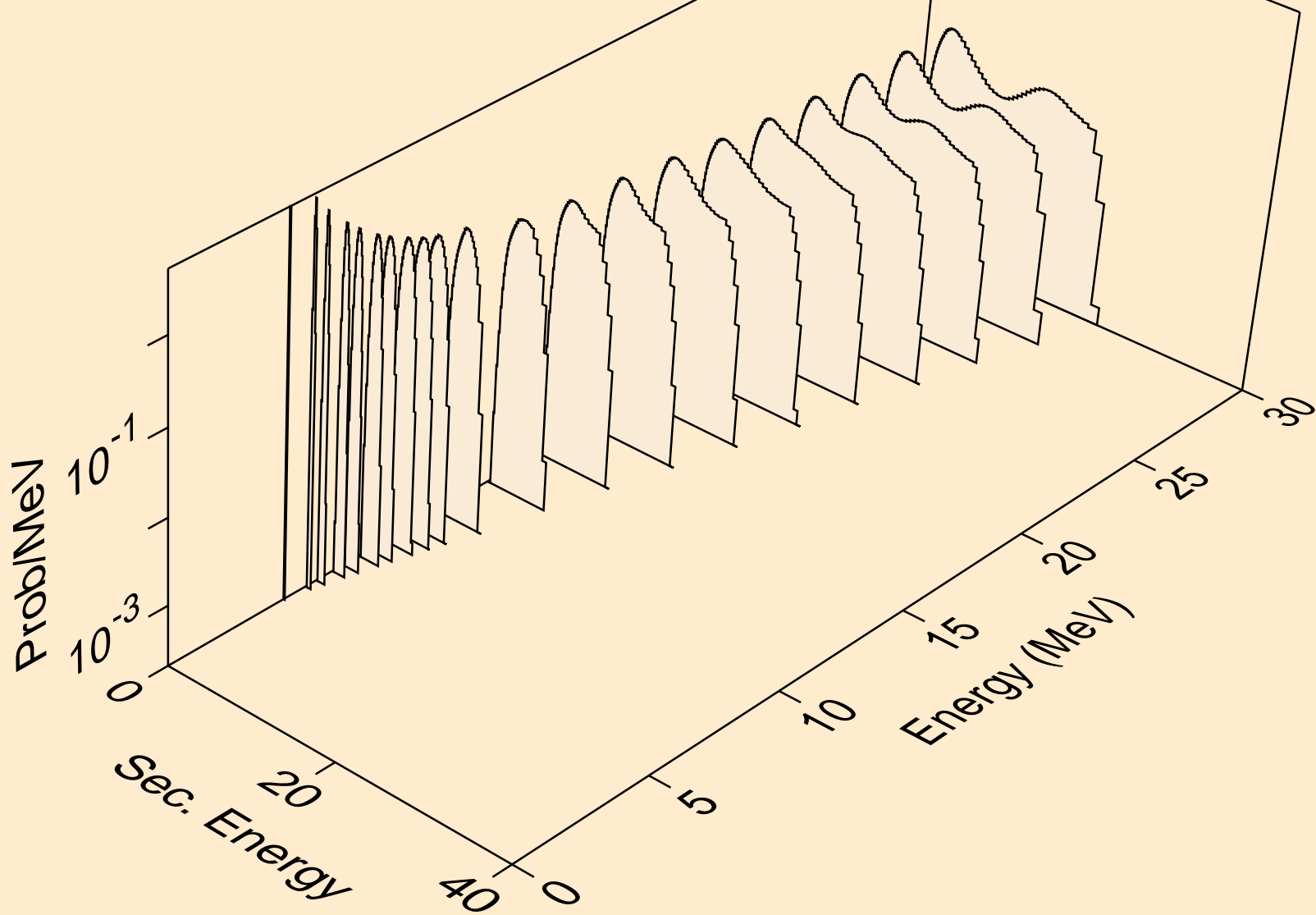




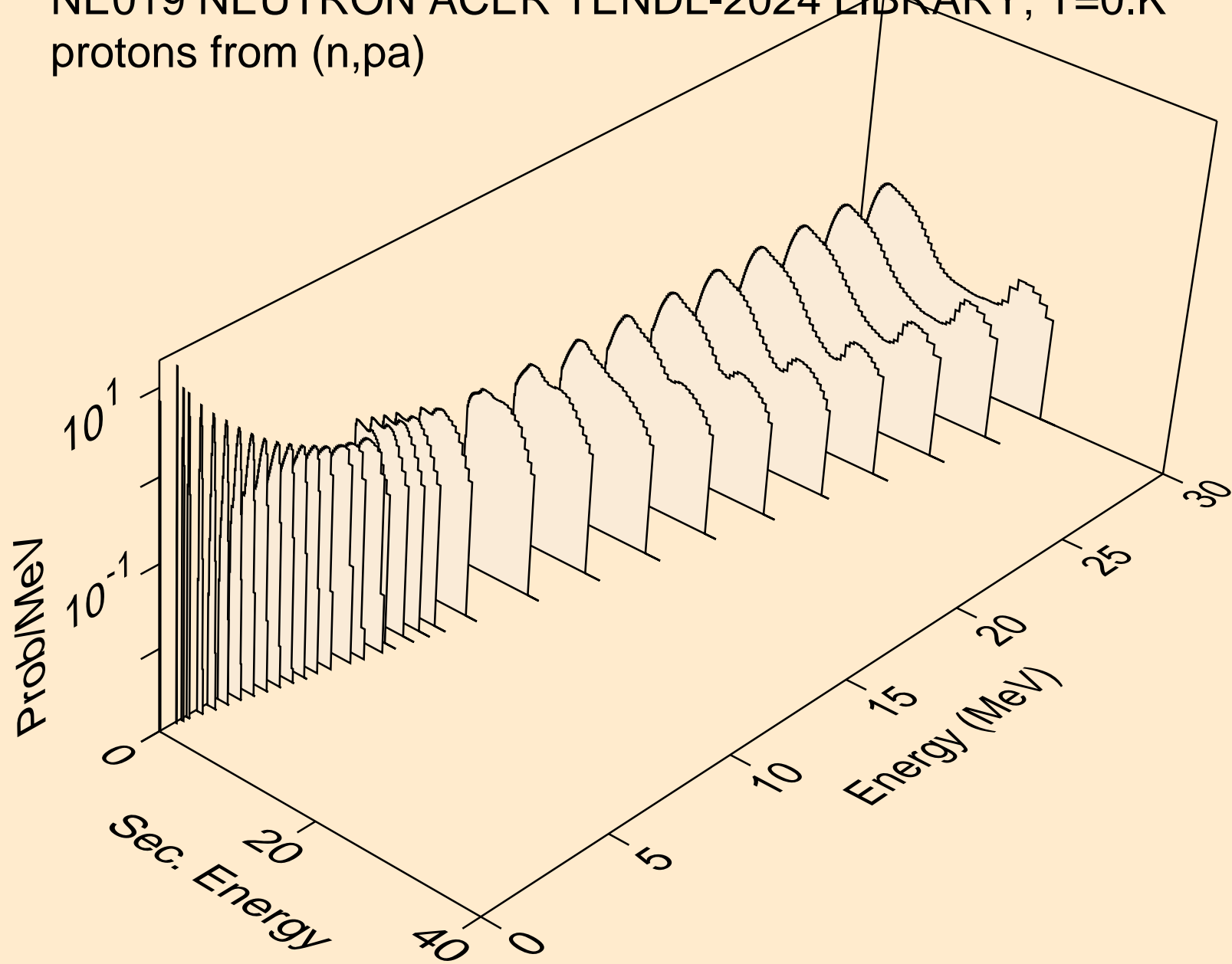
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protons from (n,p)



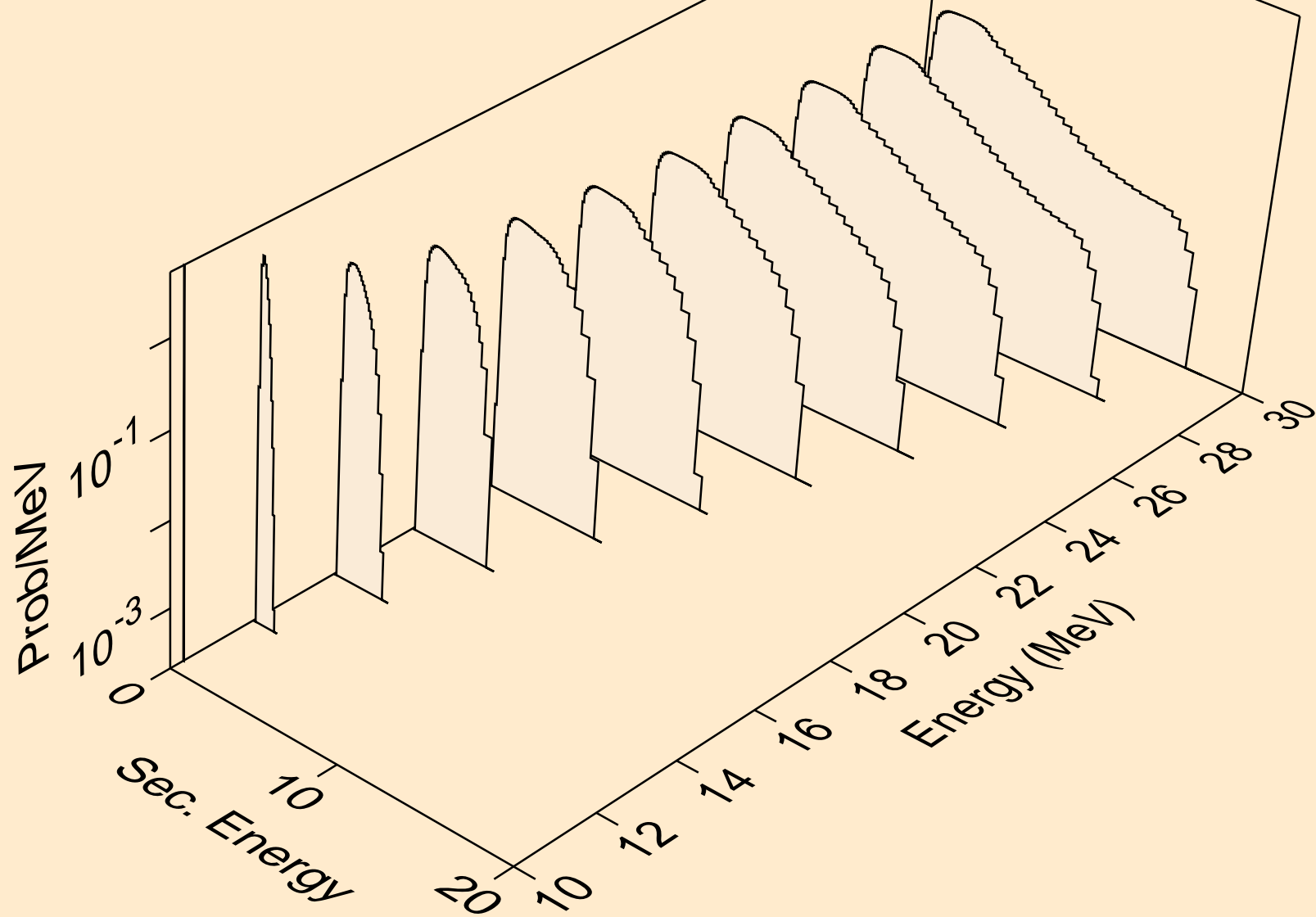
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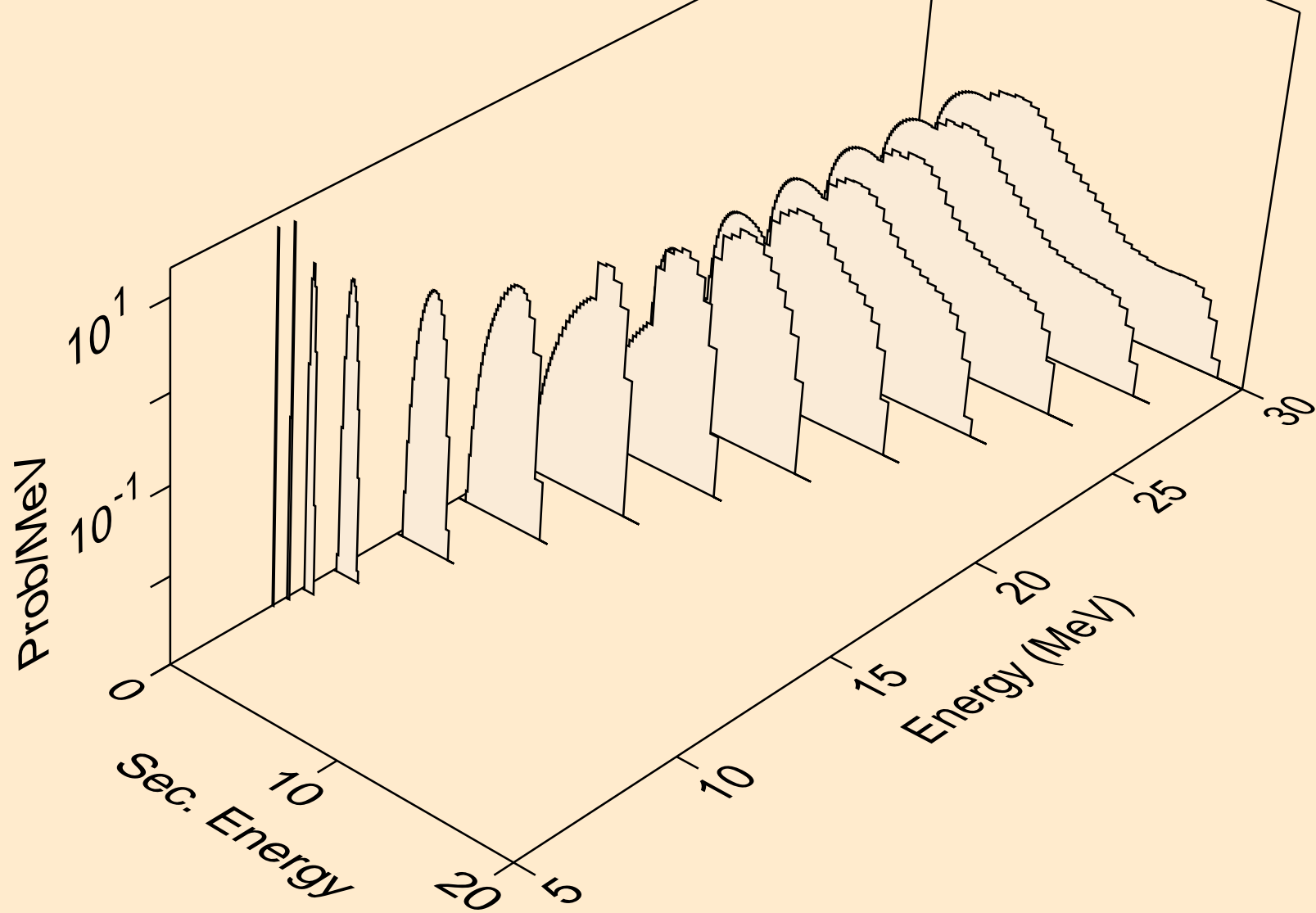
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protons from (n,p)



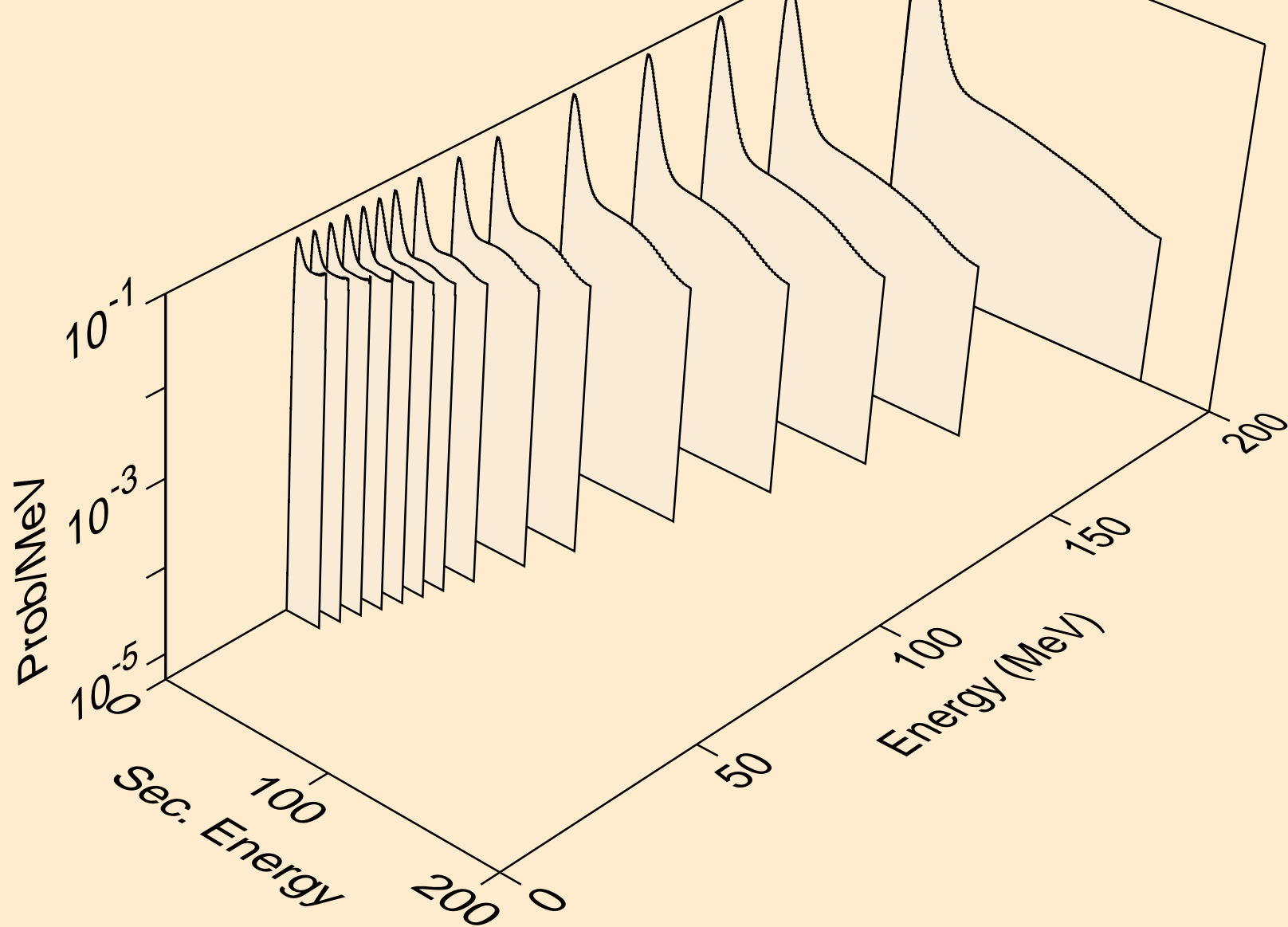
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protons from (n,pd)



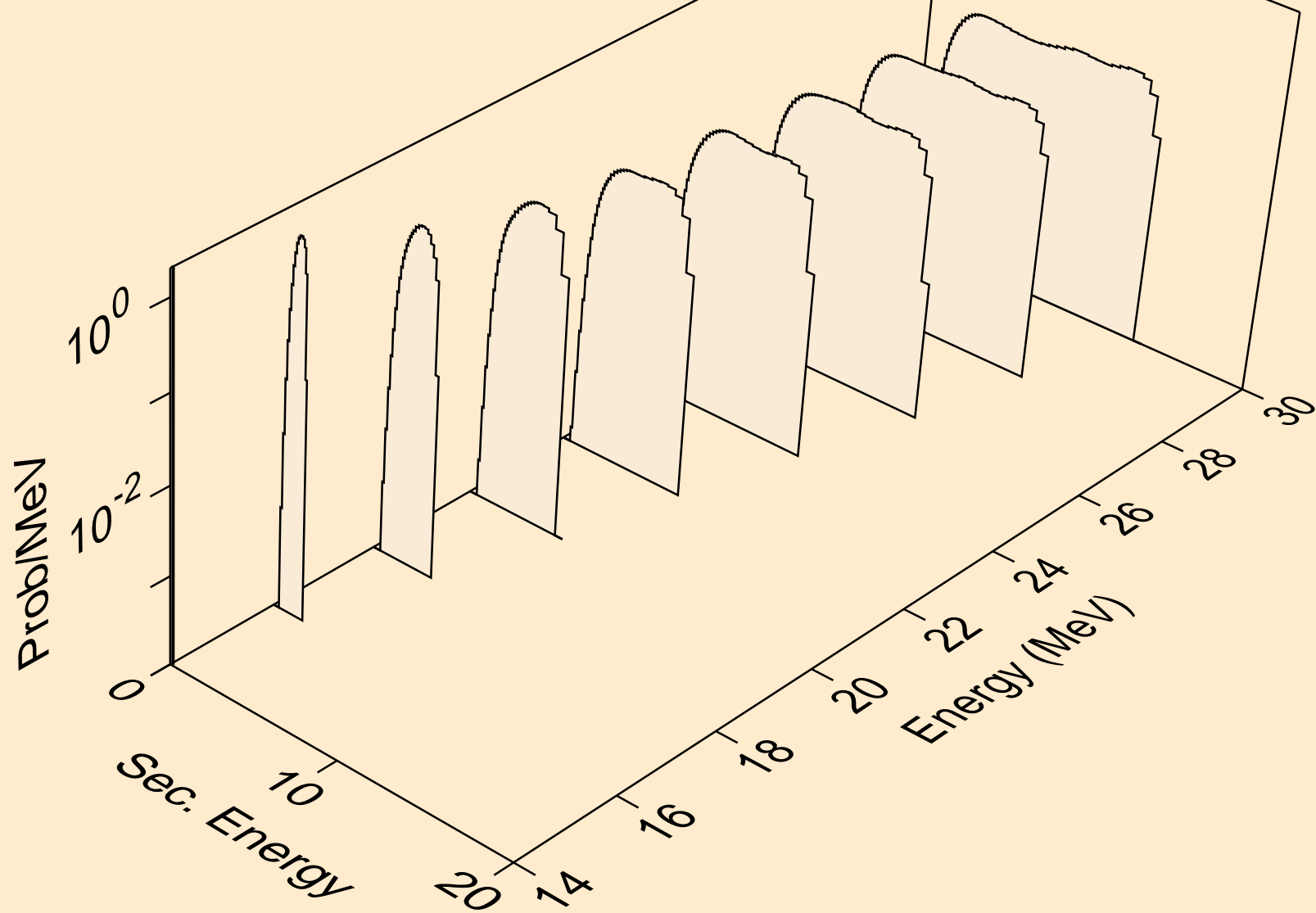
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protons from (n,pt)



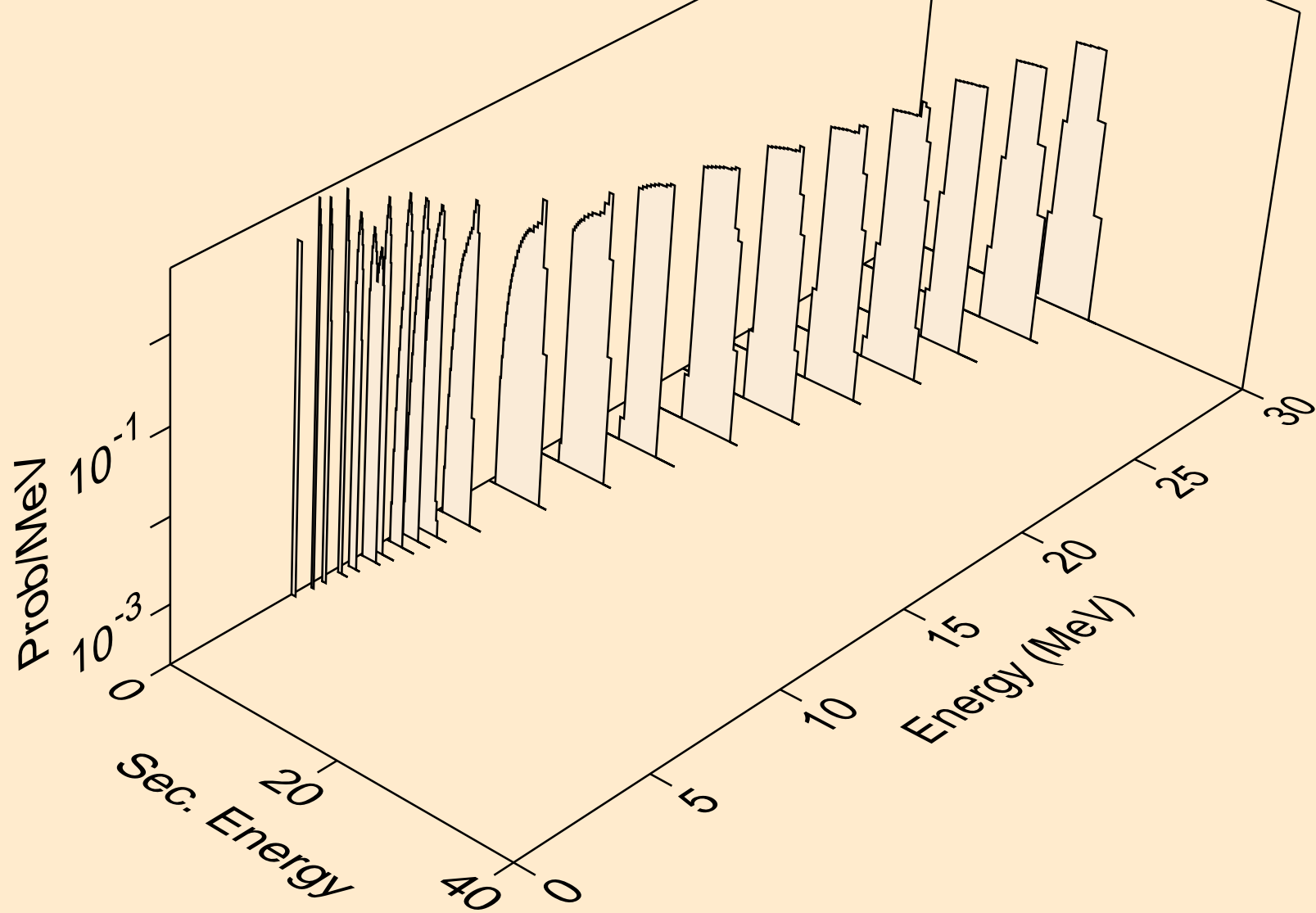
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,x)



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,n\*)d

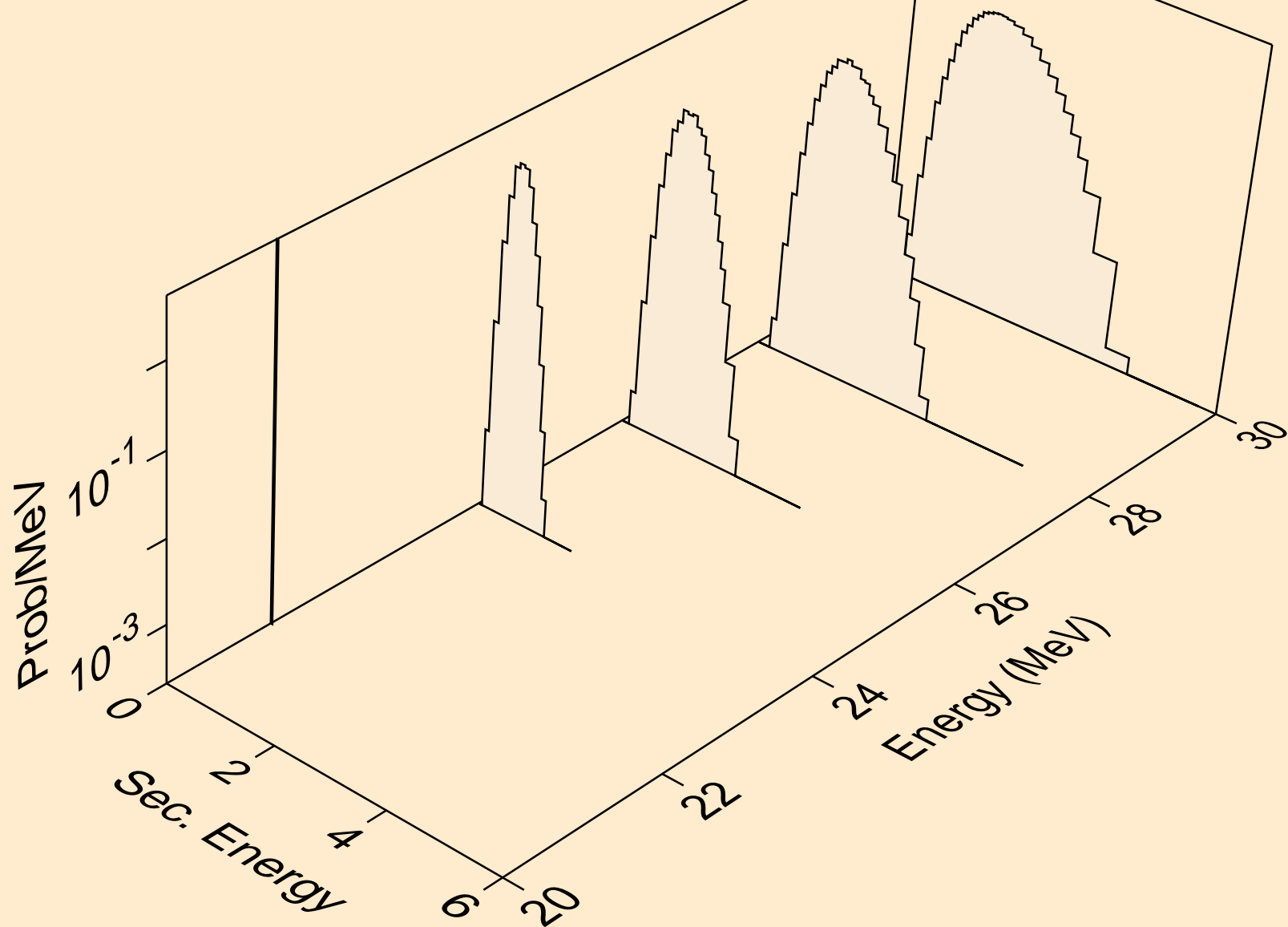


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deuterons from (n,d)

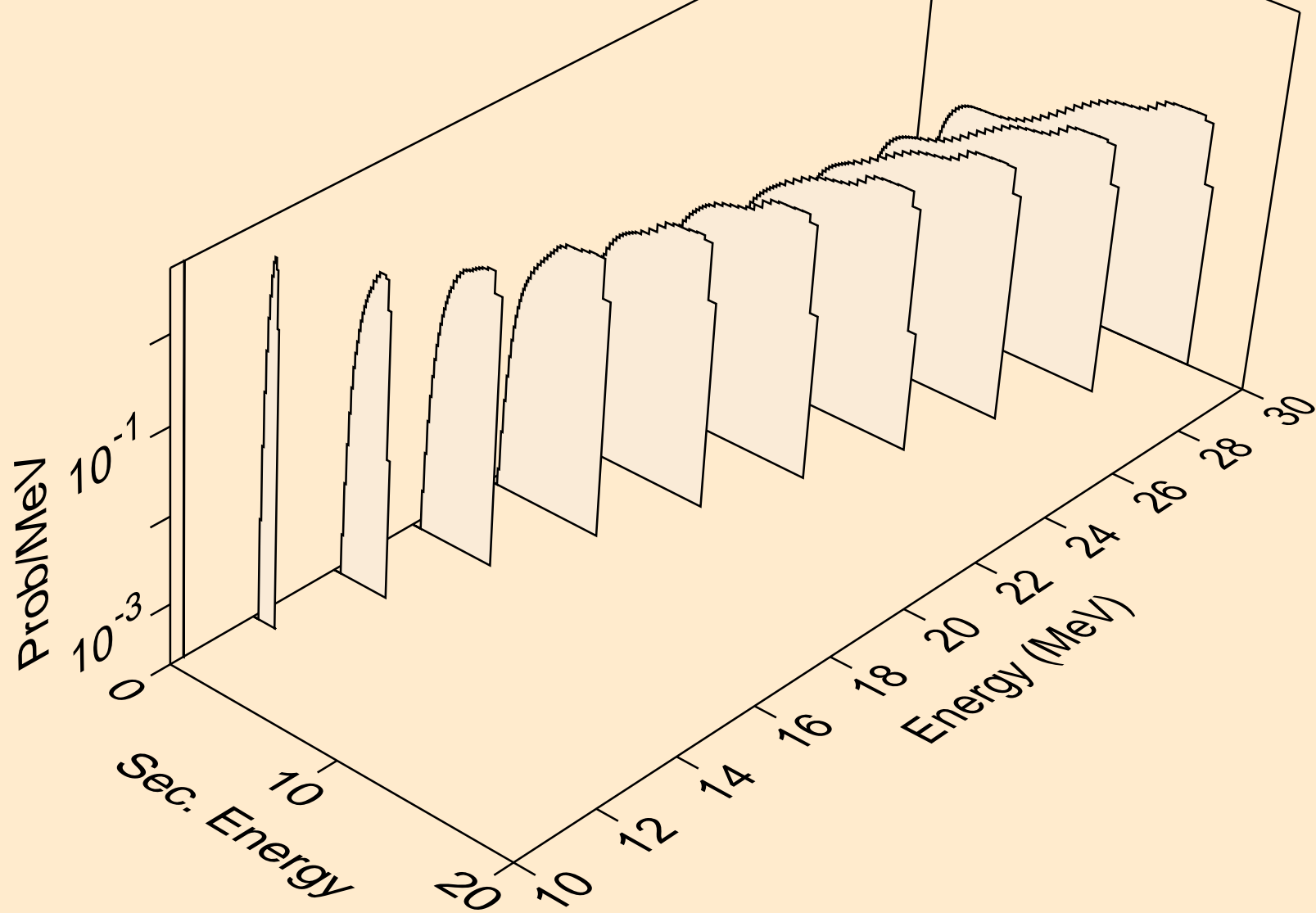




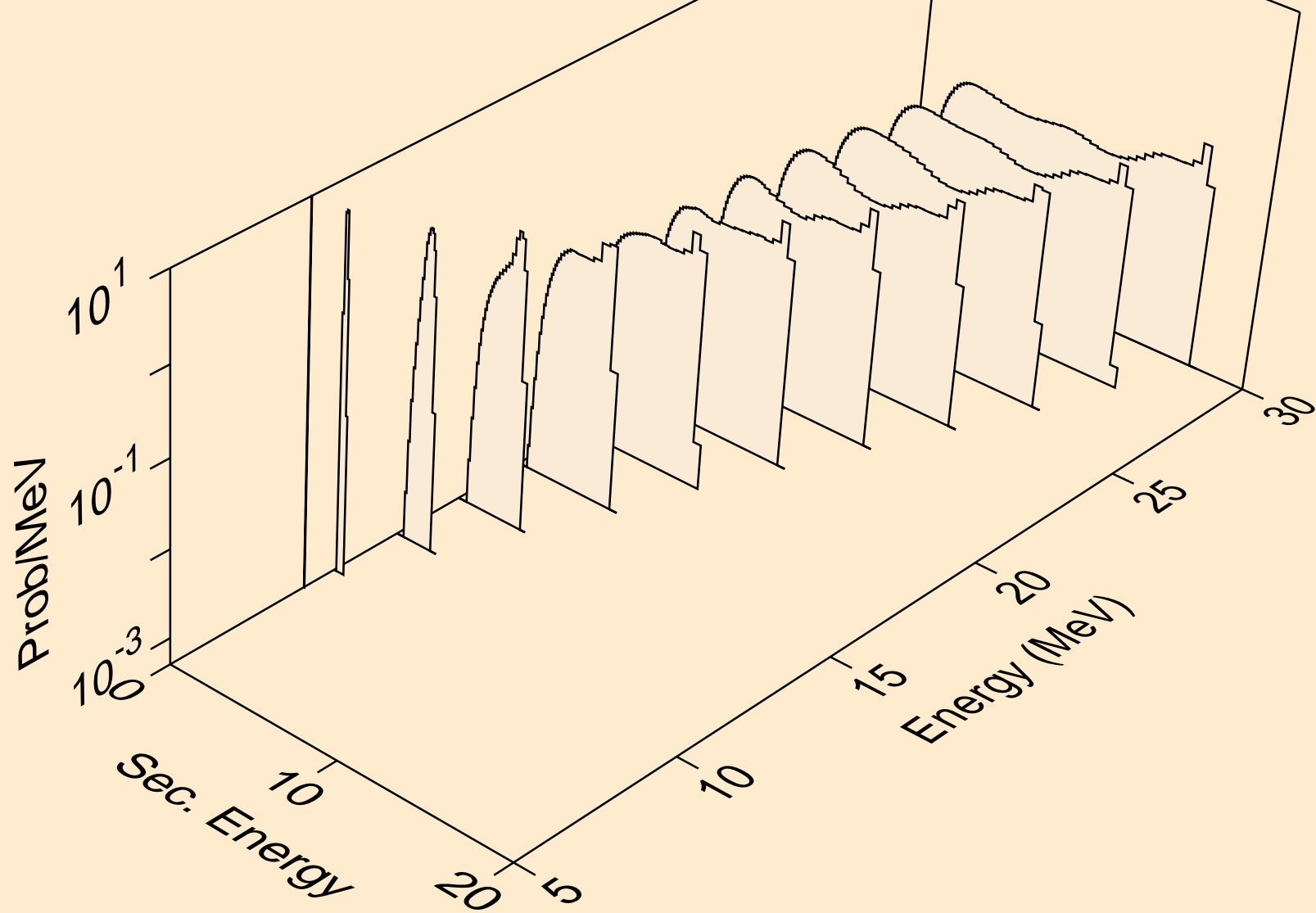
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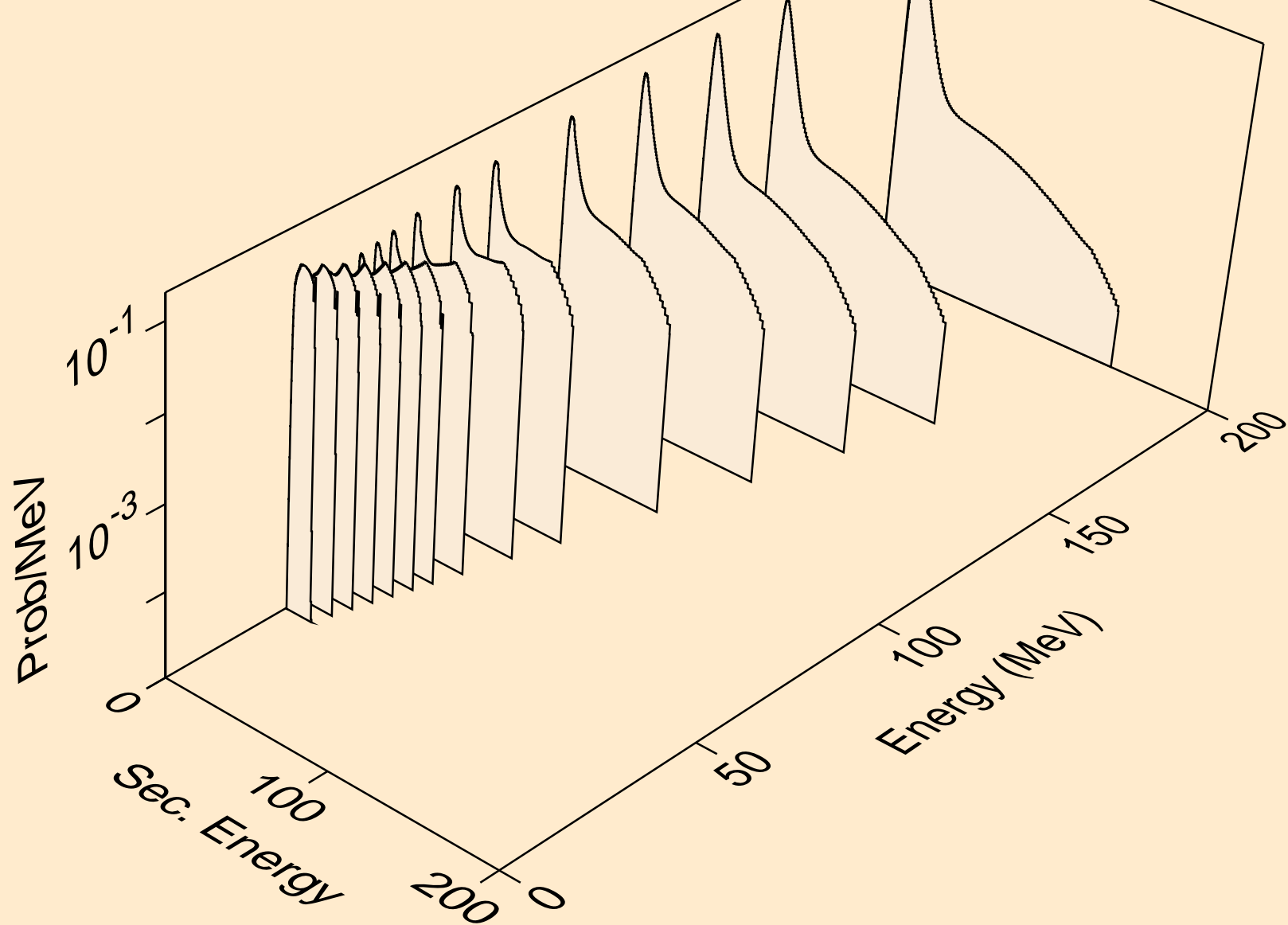
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deuterons from (n,pd)



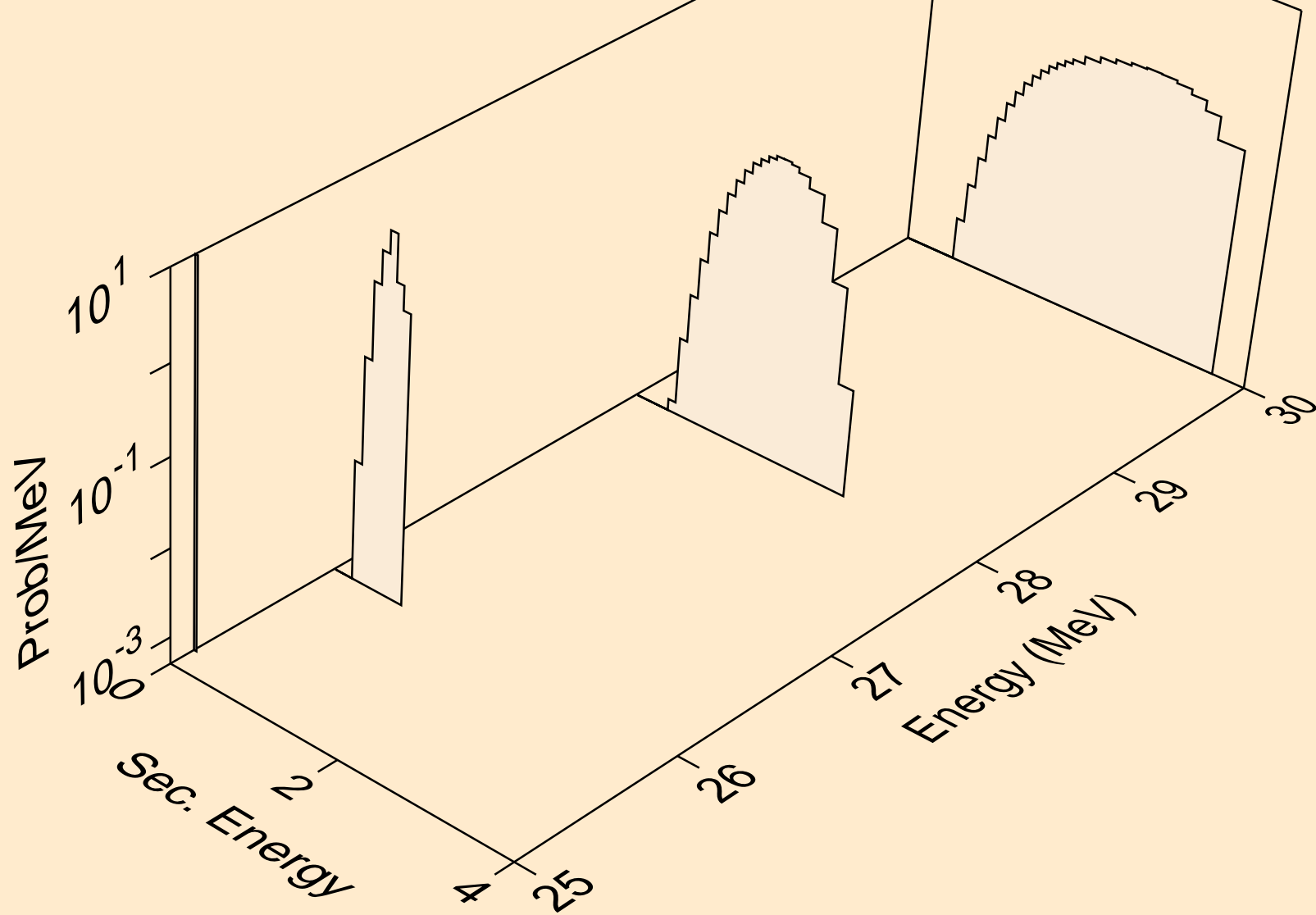
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deuterons from (n,da)



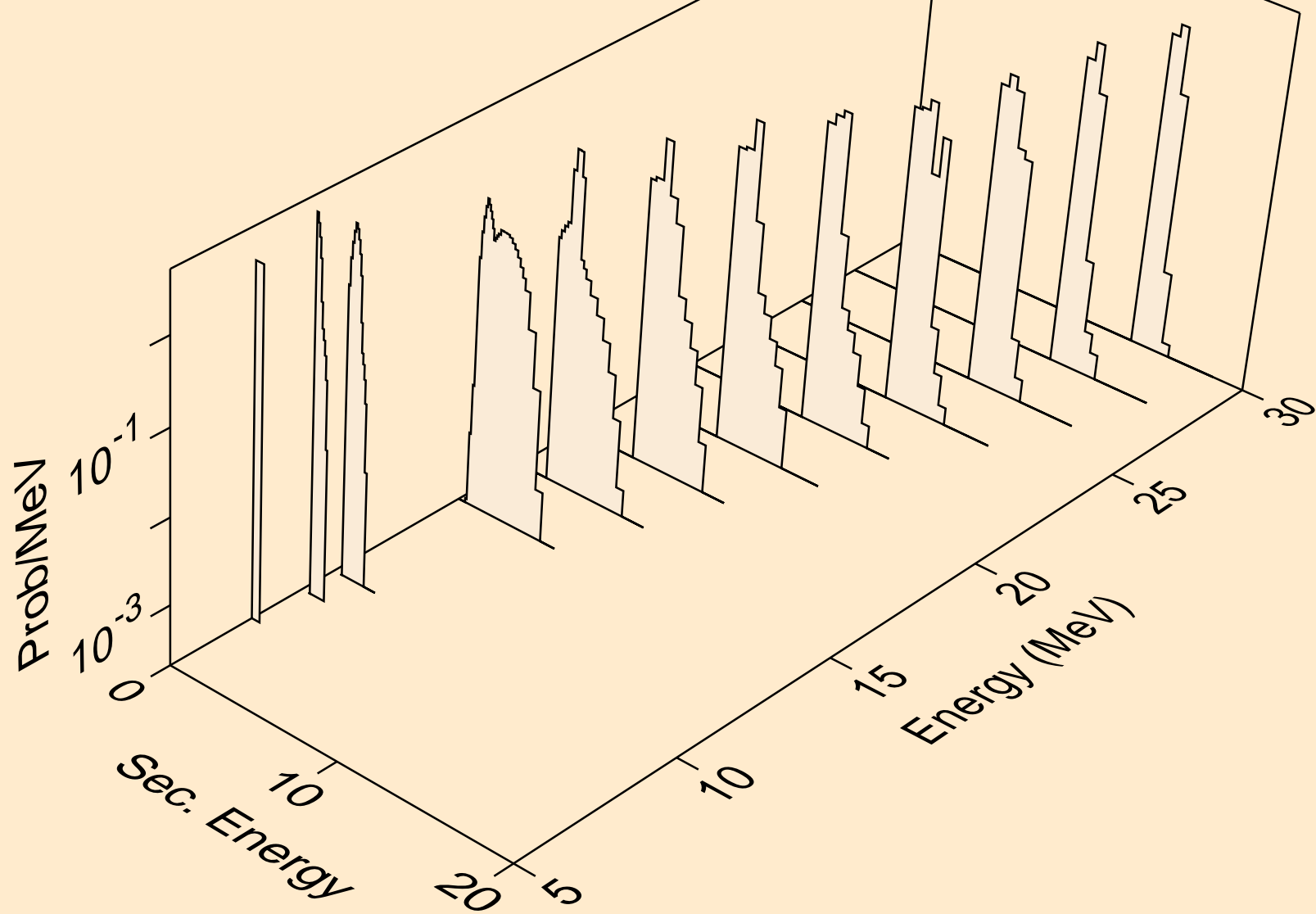
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tritons from (n,x)



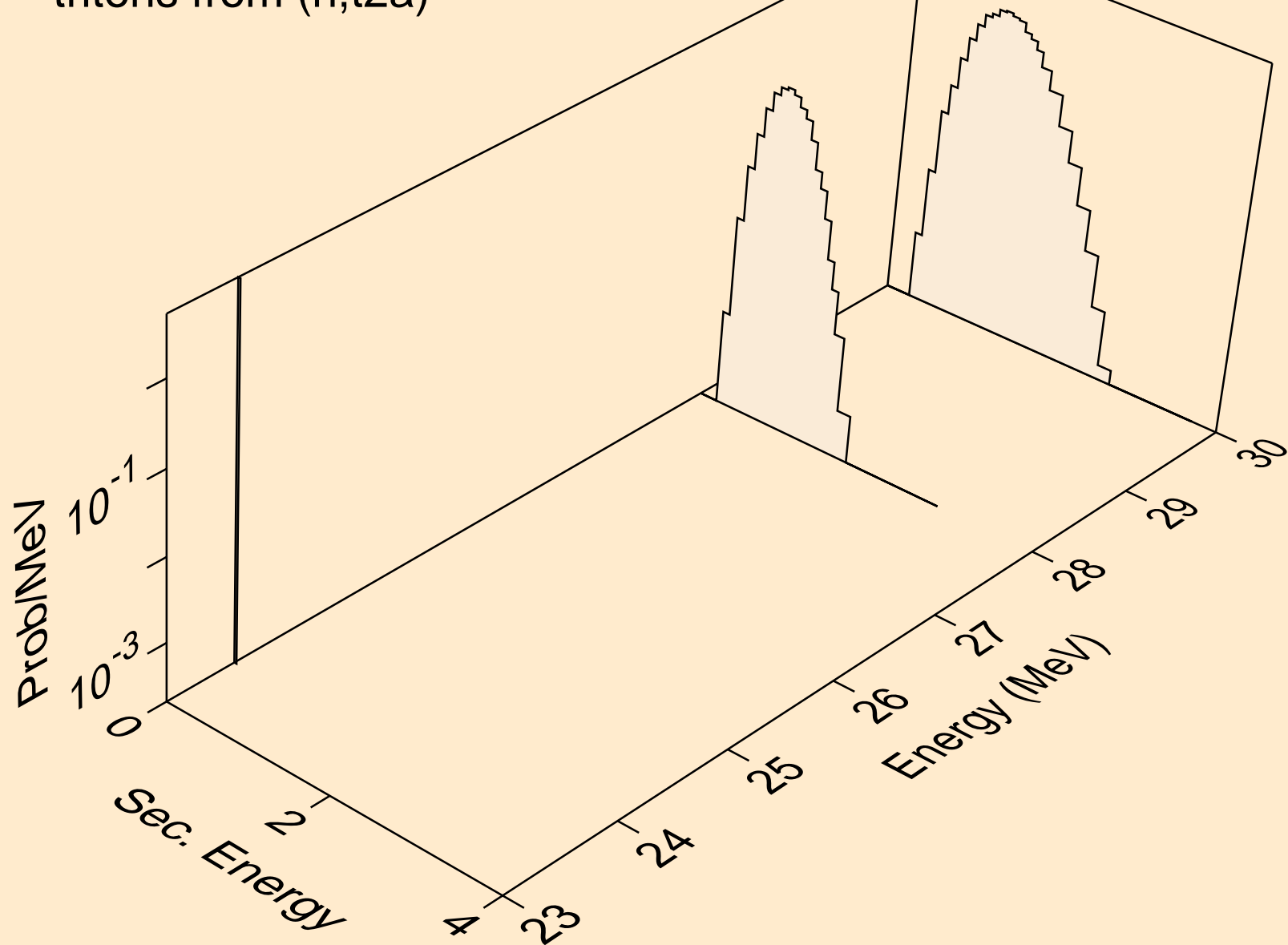
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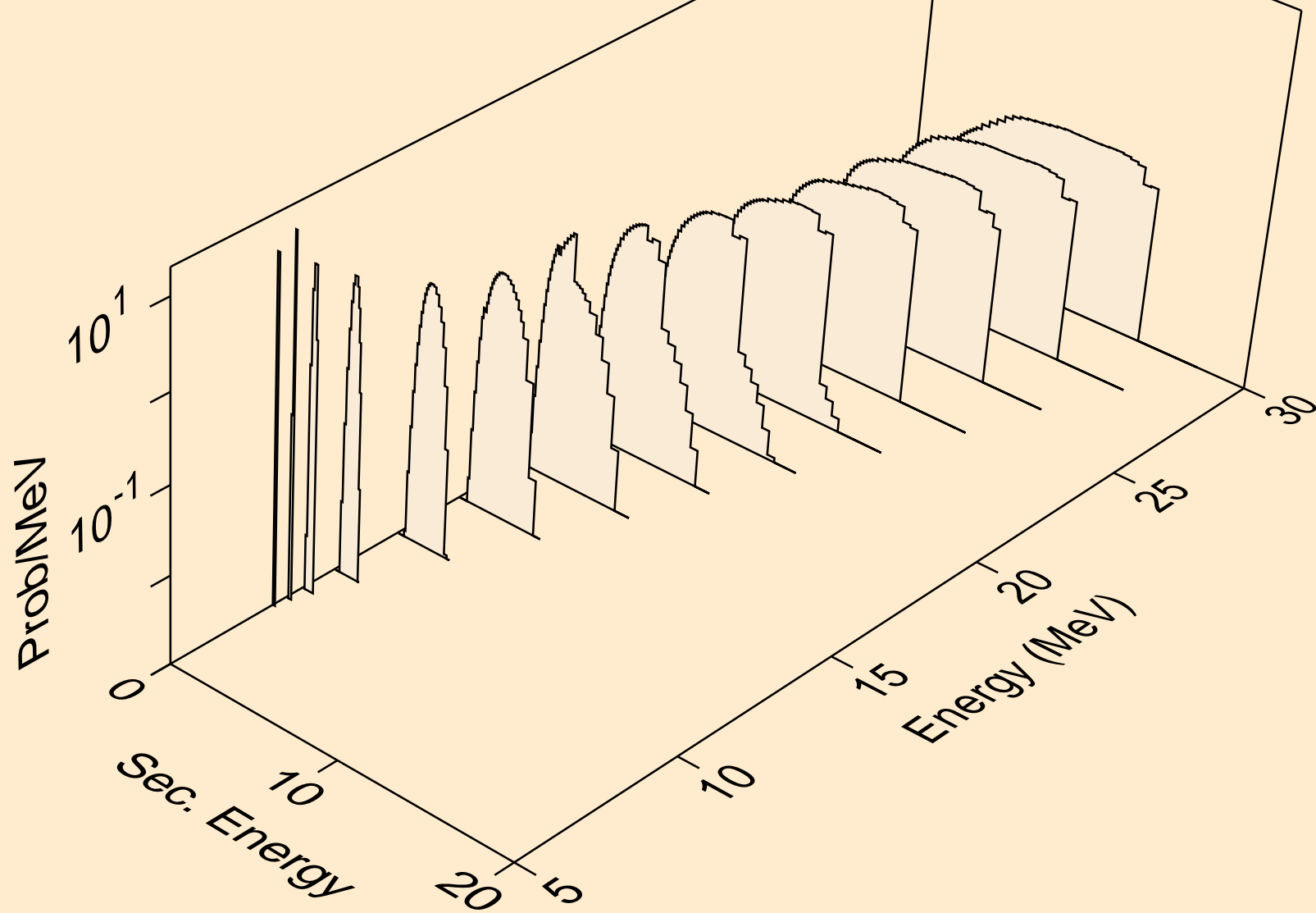
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NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
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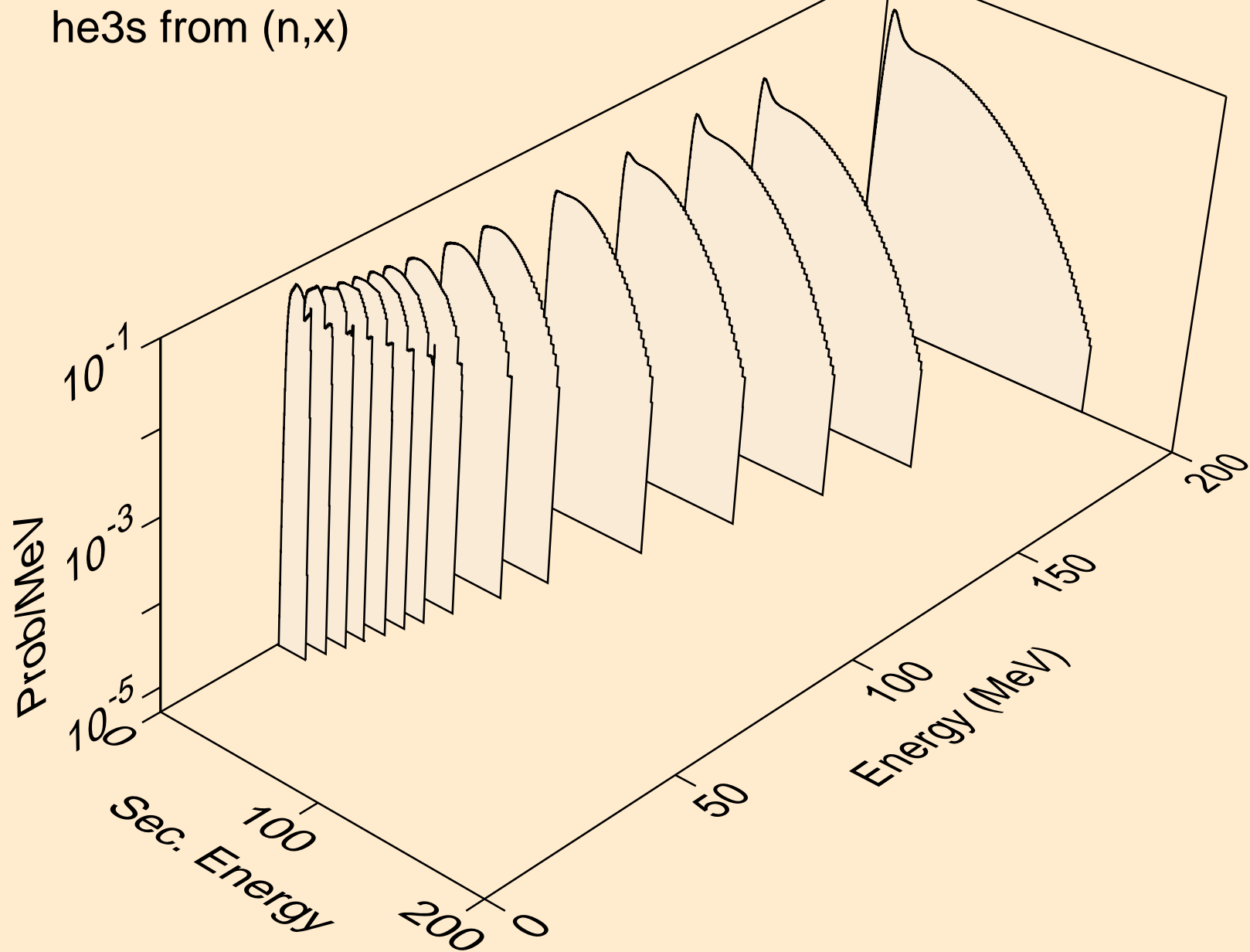


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tritons from (n,pt)

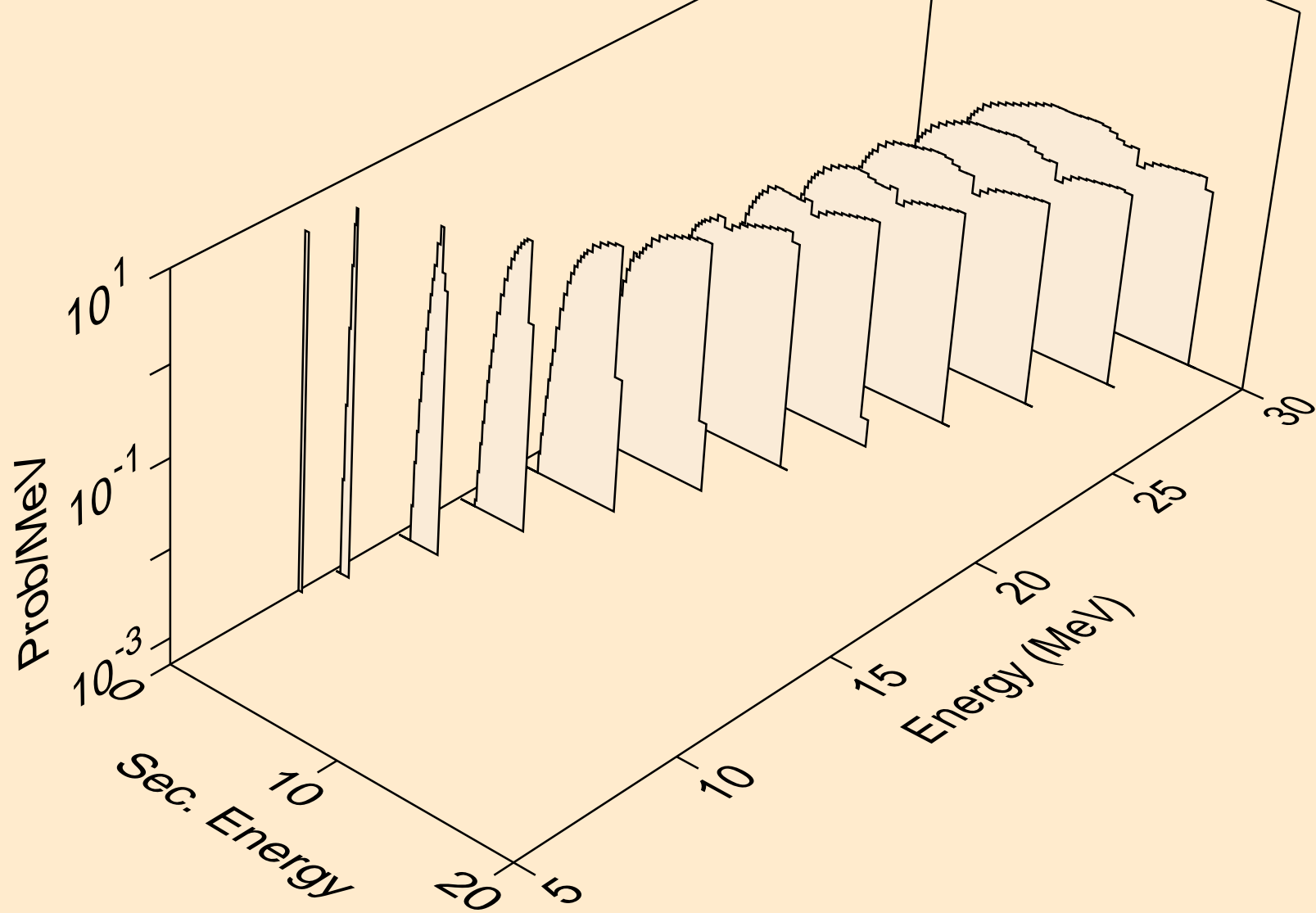




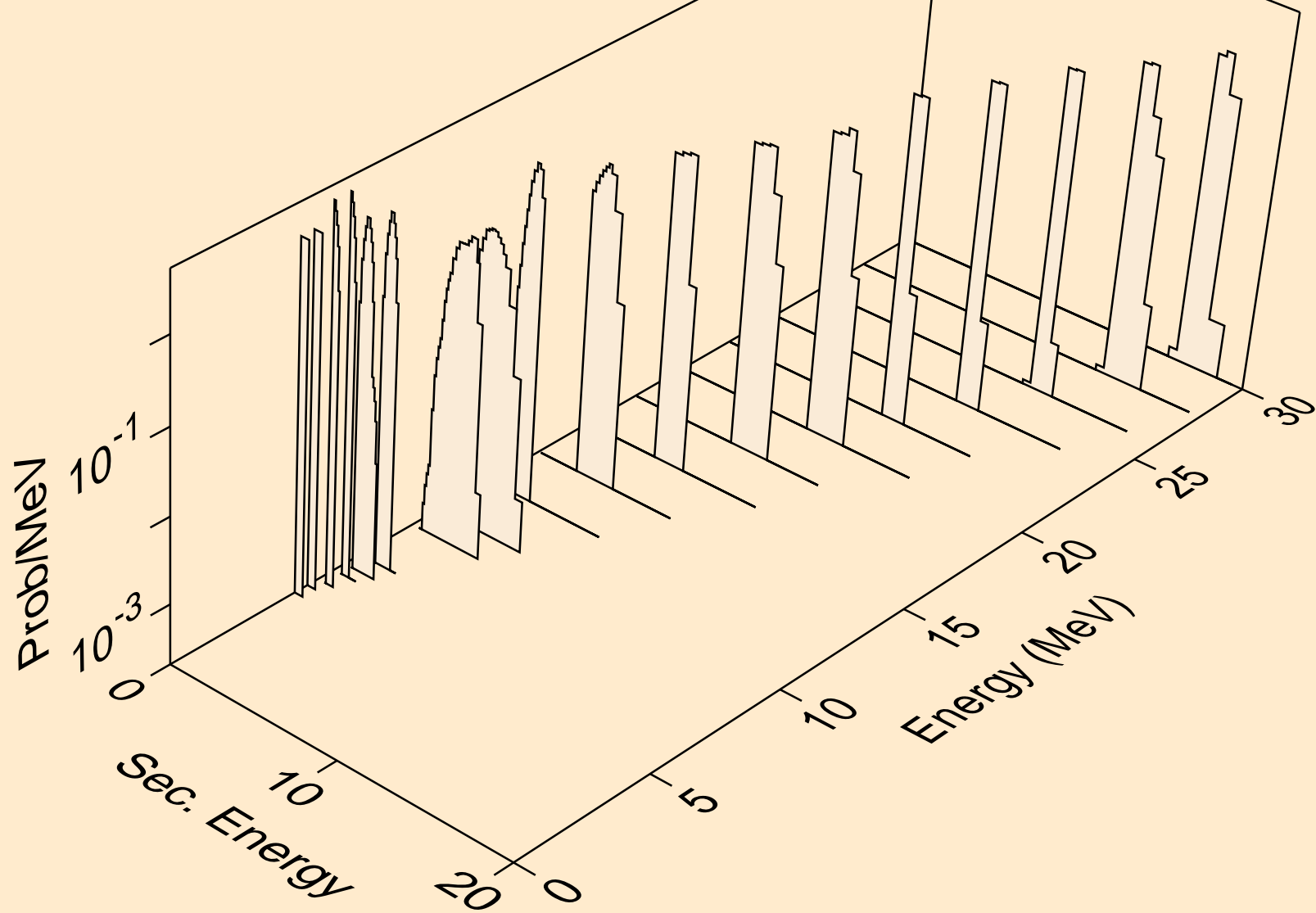
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he3s from (n,x)



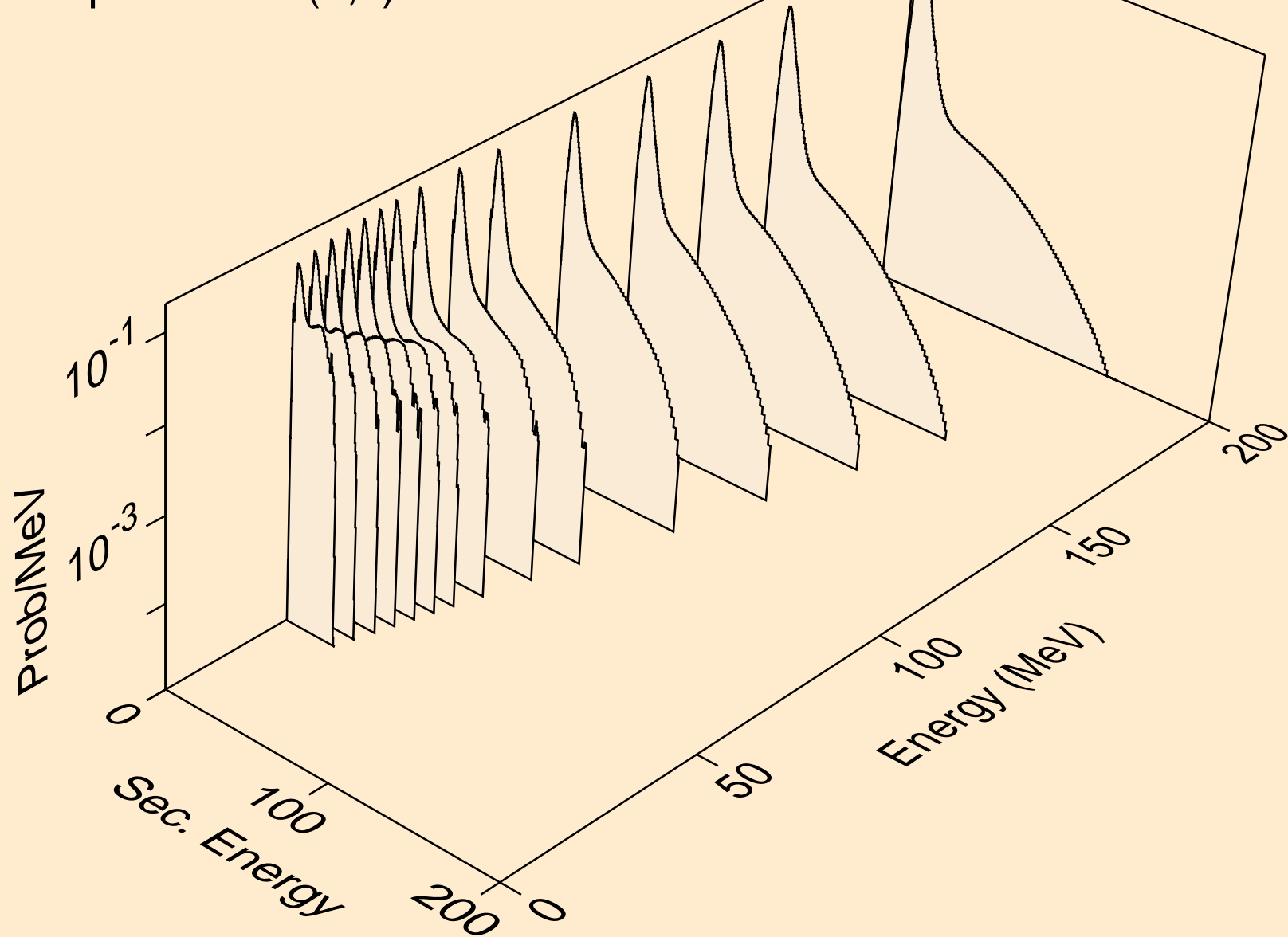
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,n\*)he3



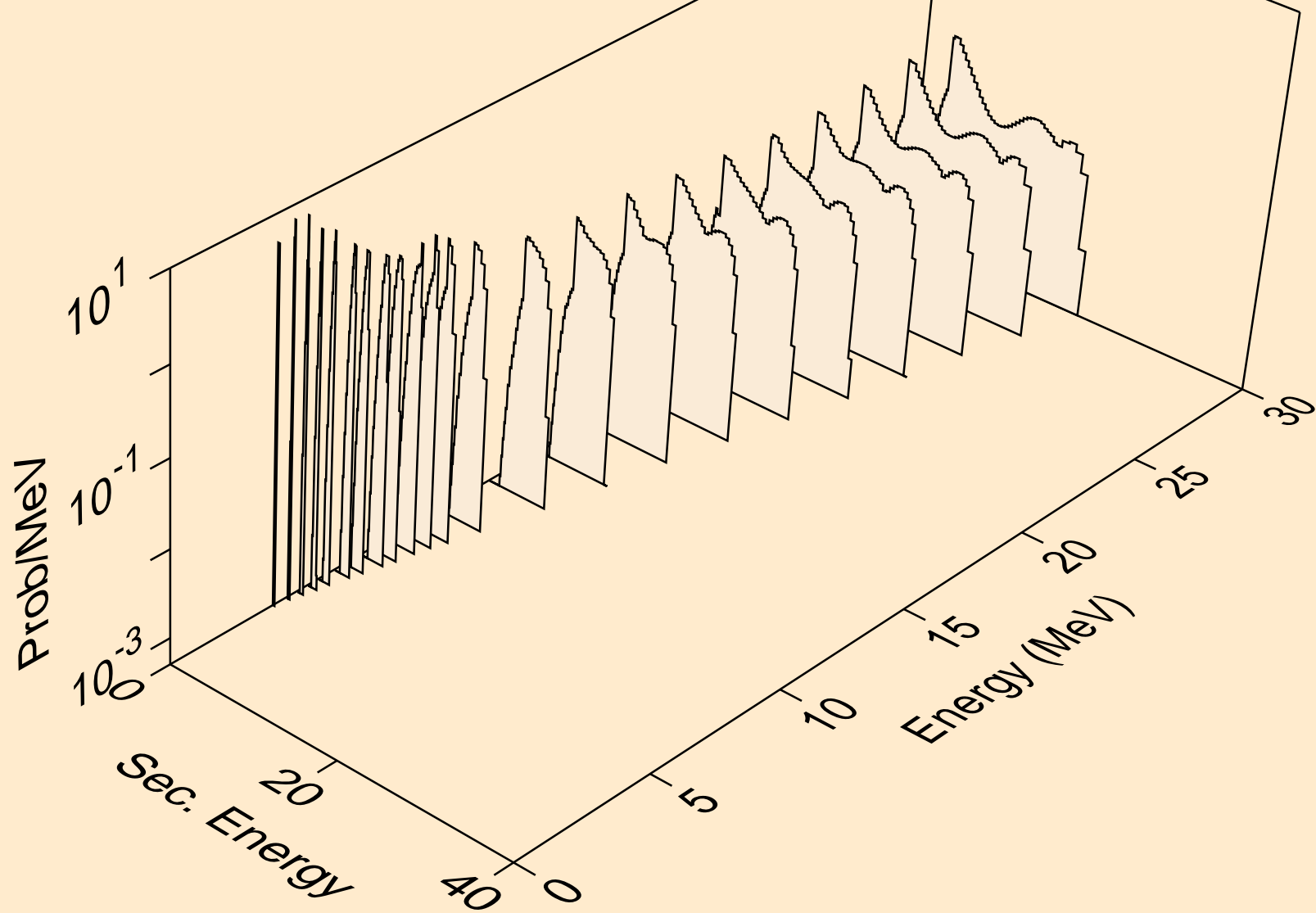
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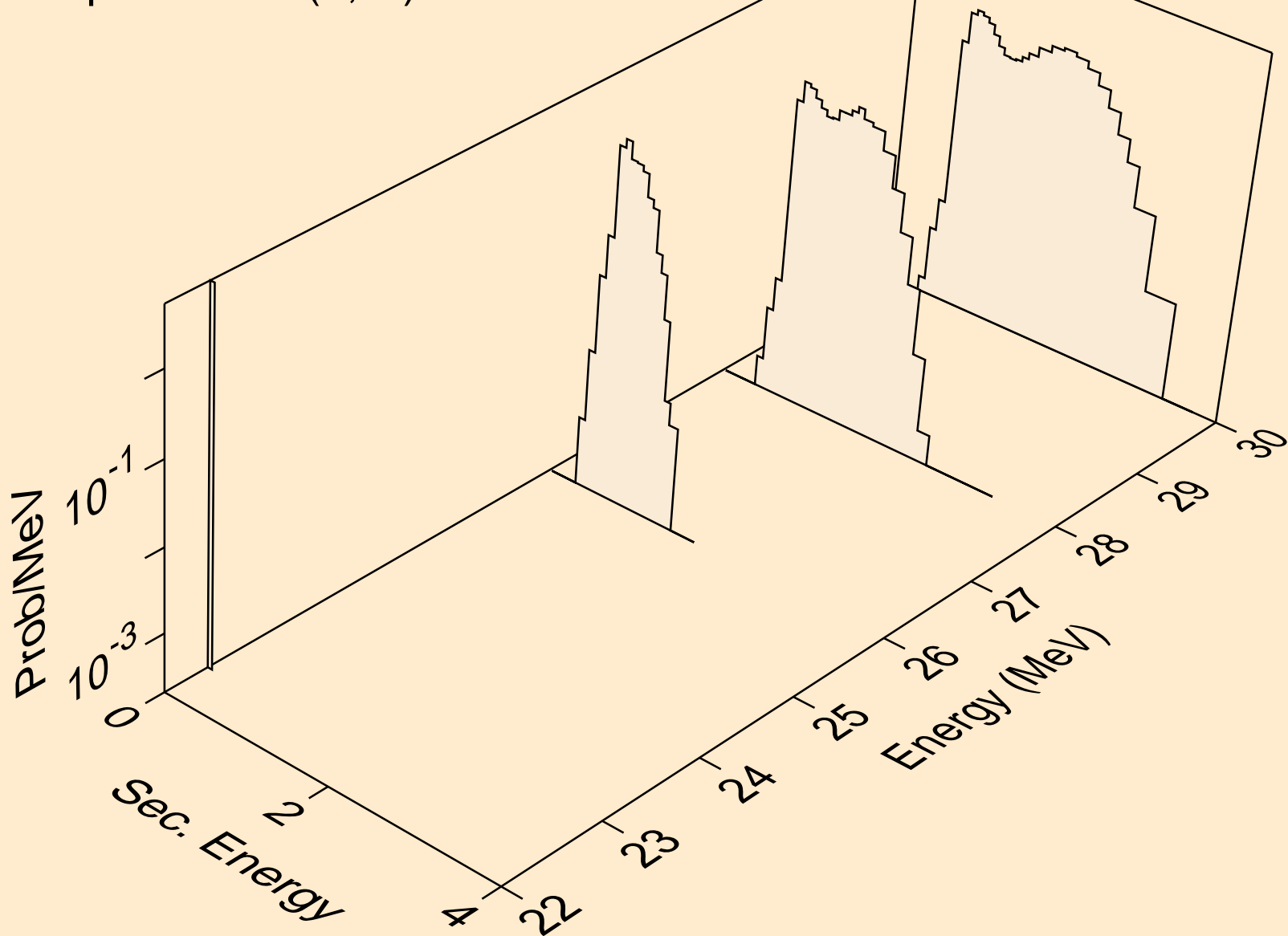
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alphas from (n,x)



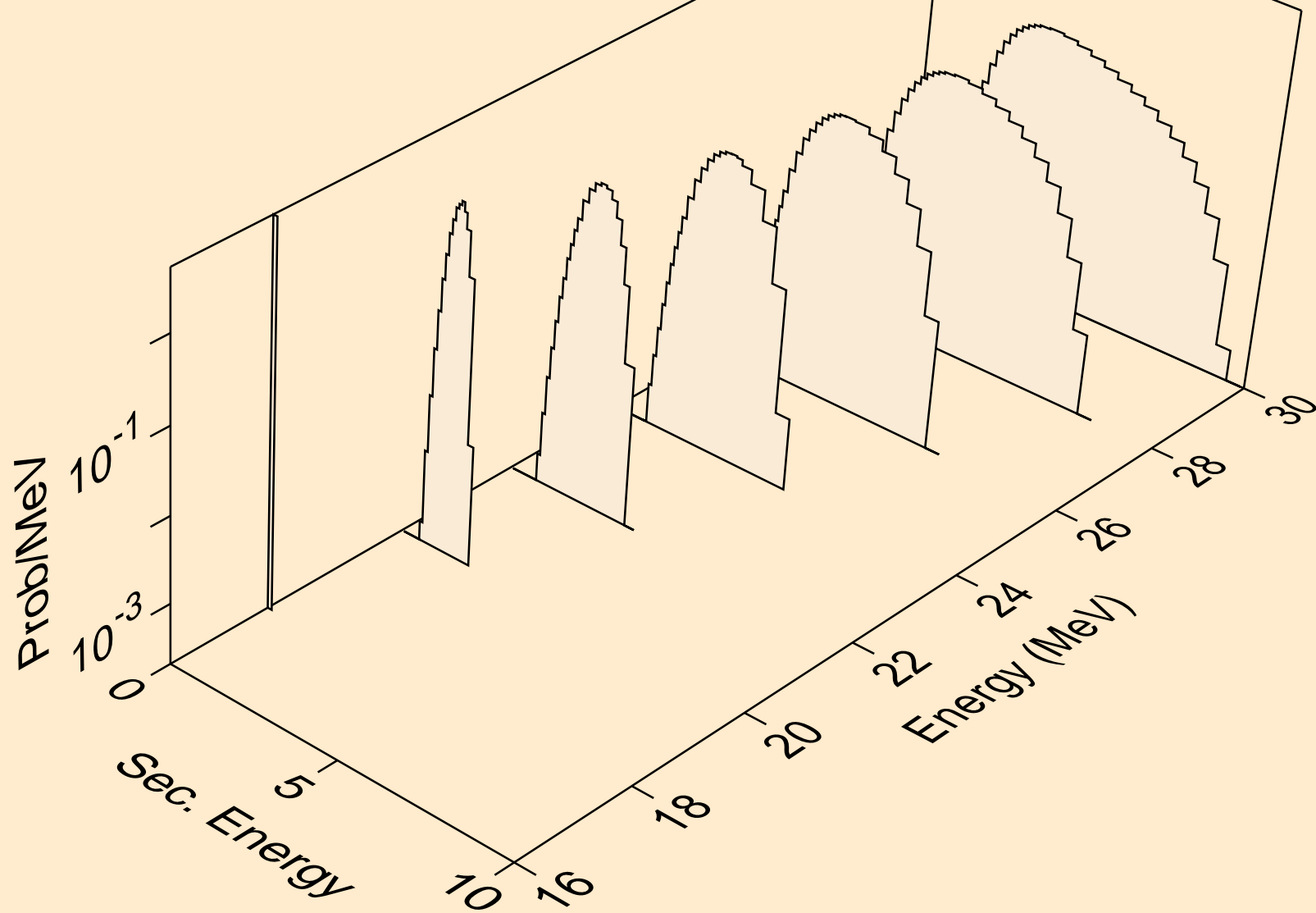
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



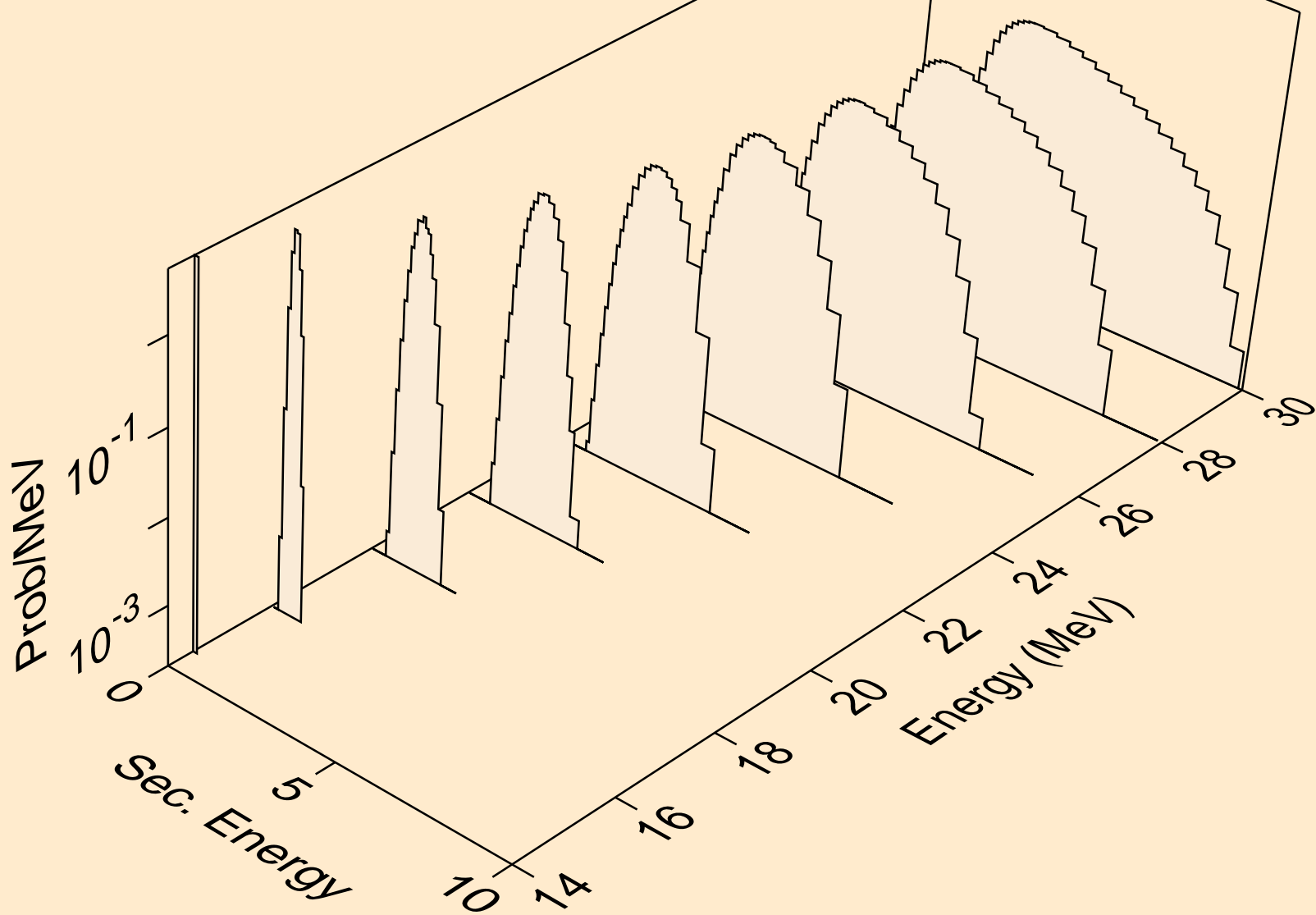
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)3a



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a

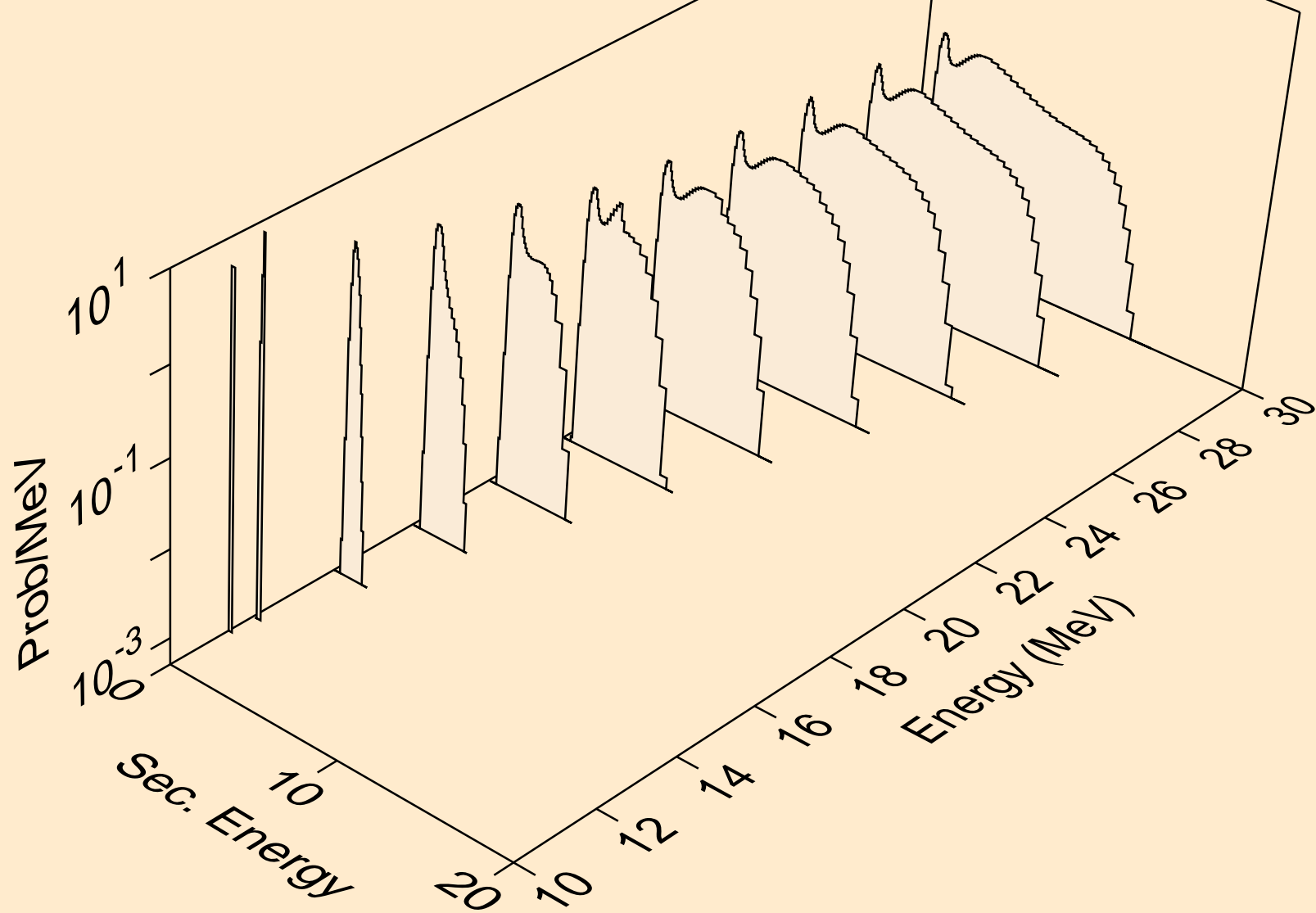


NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)2a

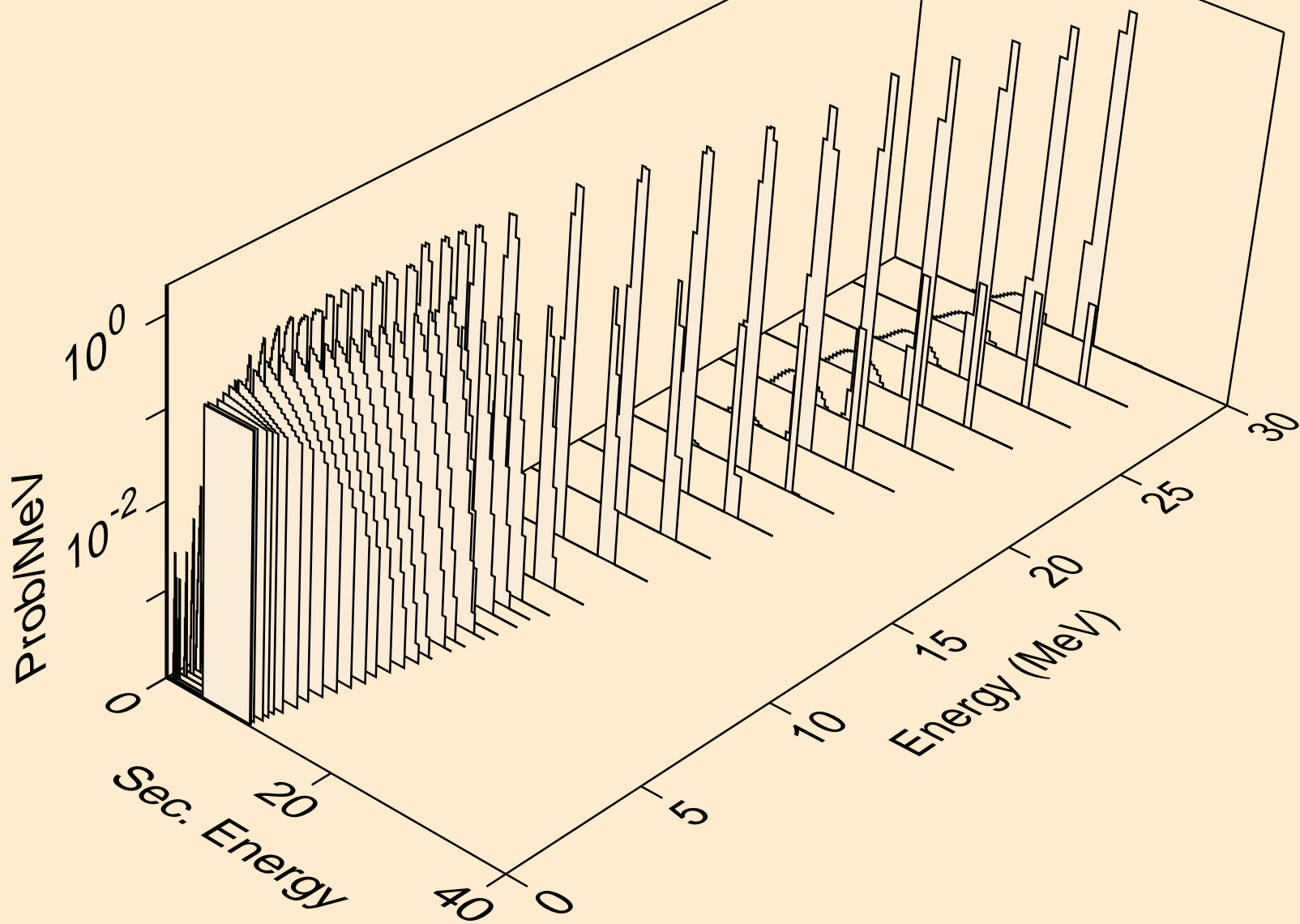




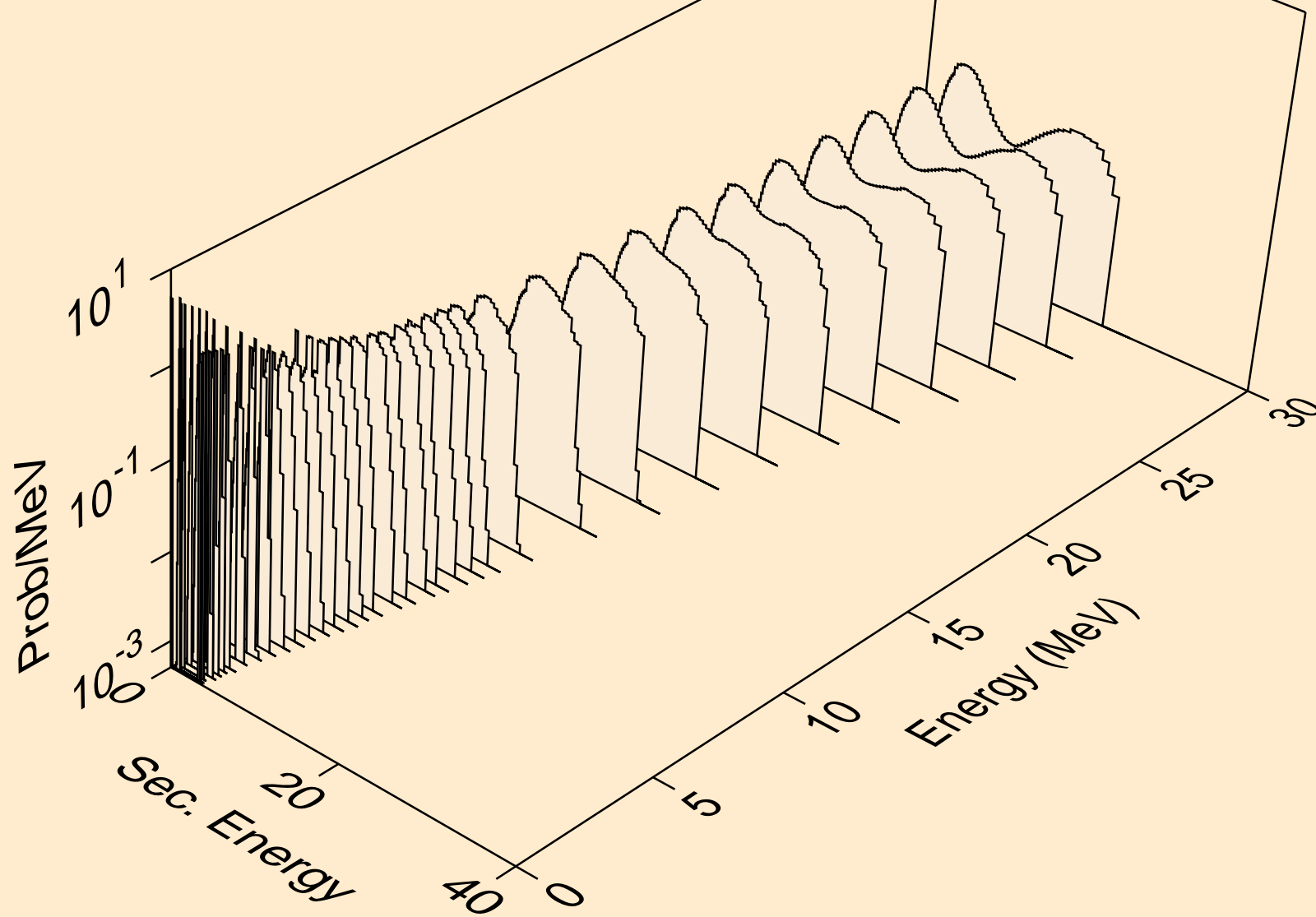
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alphas from (n,npa)



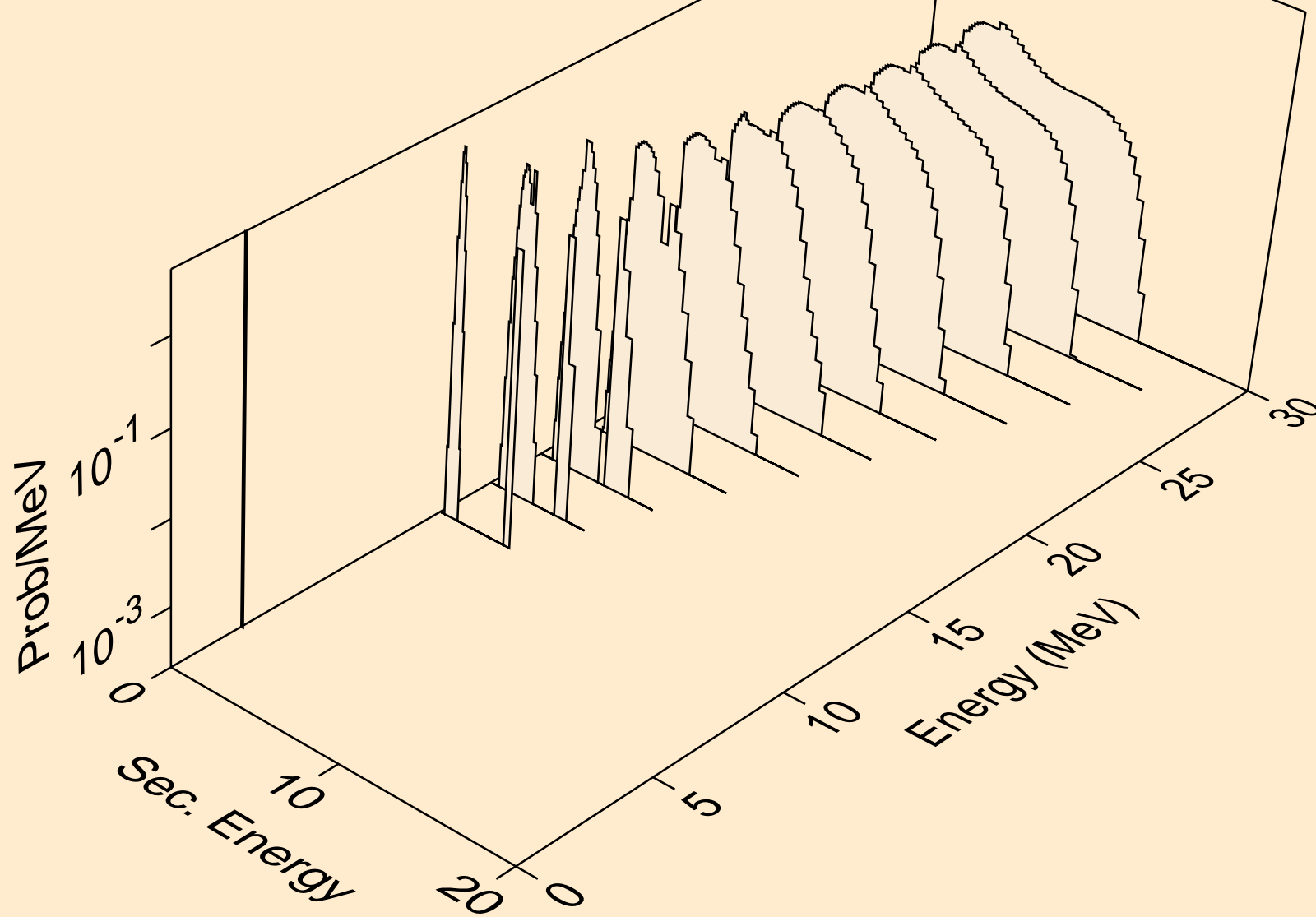
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alphas from (n,a)



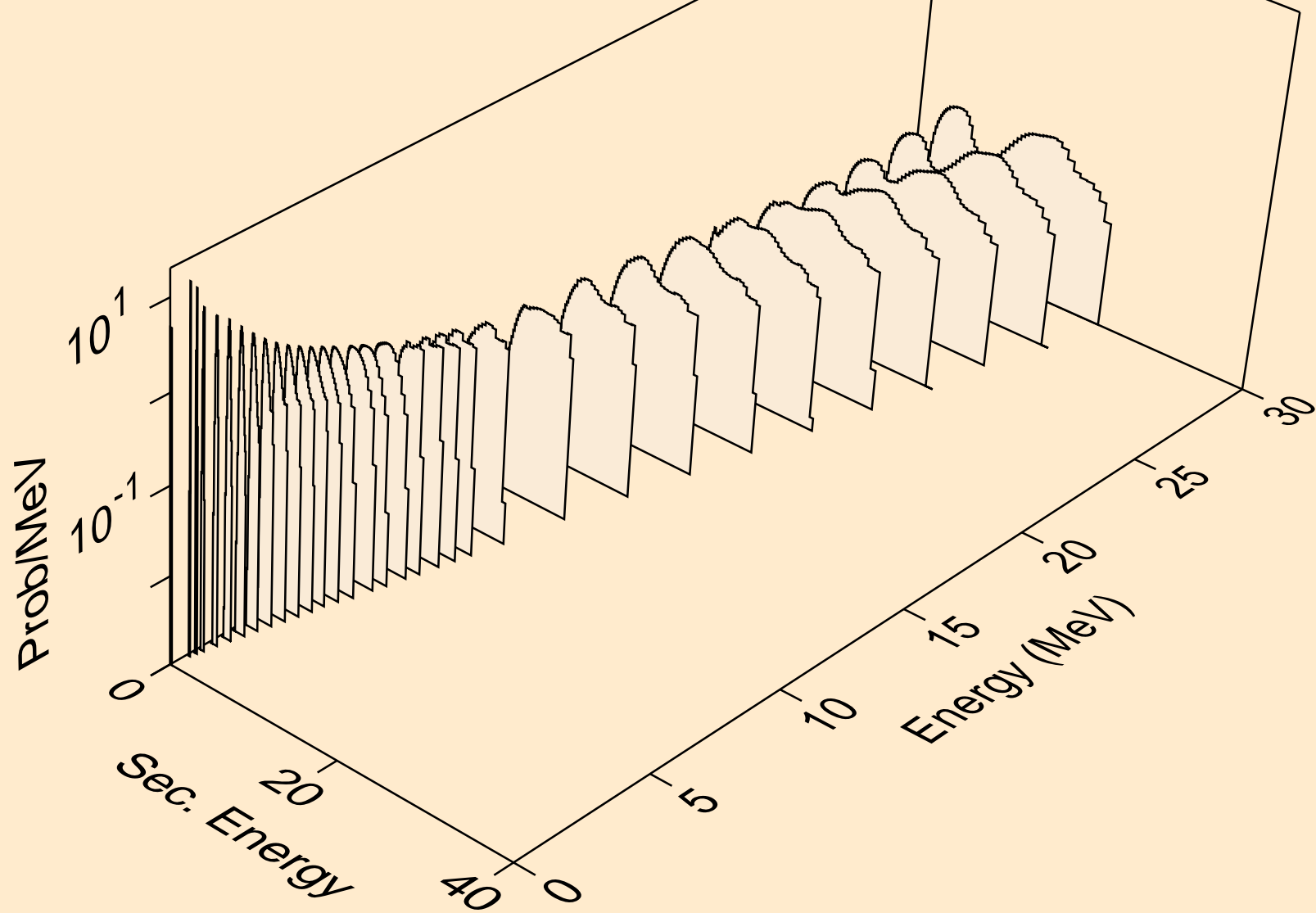
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alphas from (n,2a)



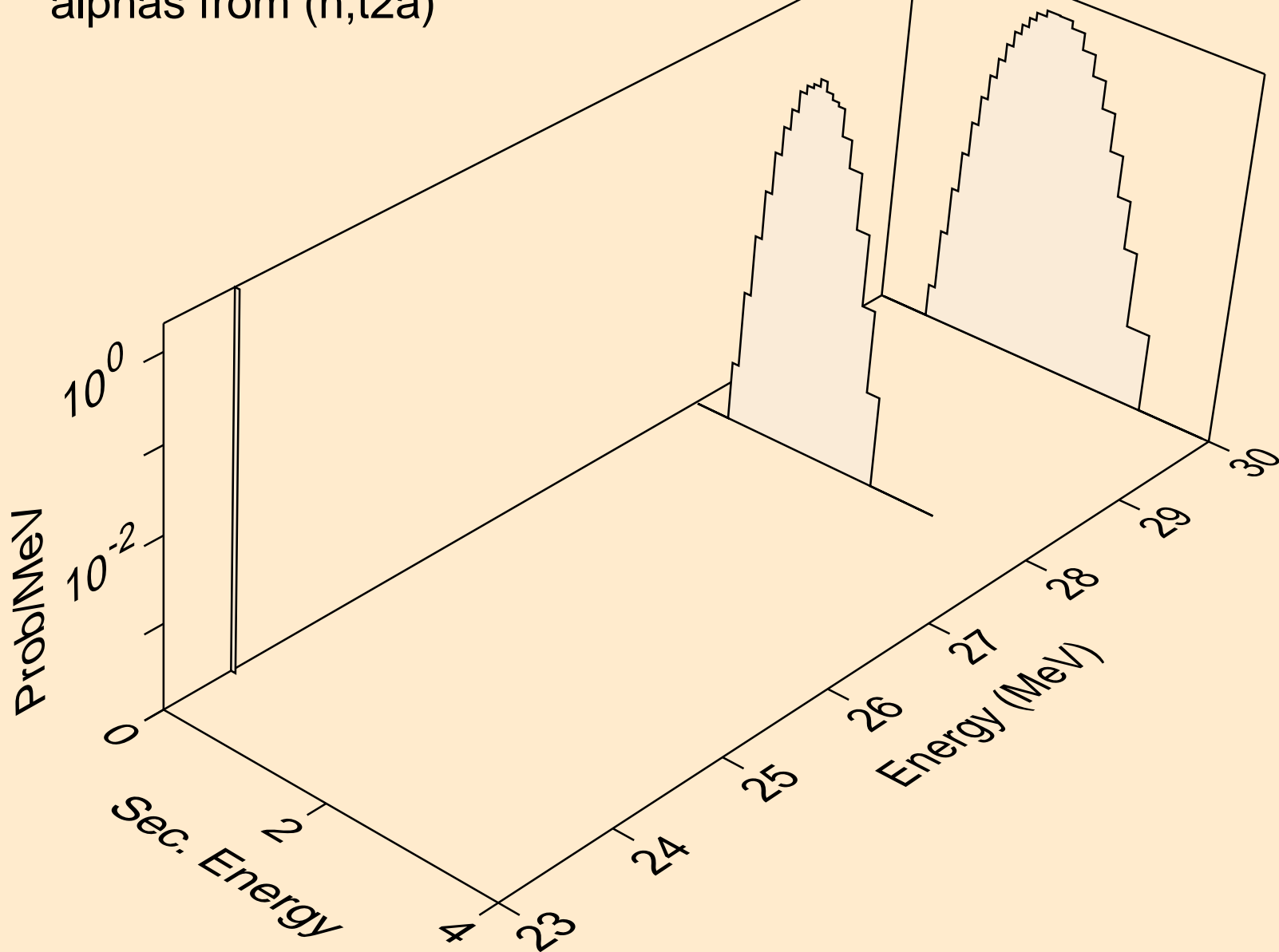
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alphas from (n,3a)



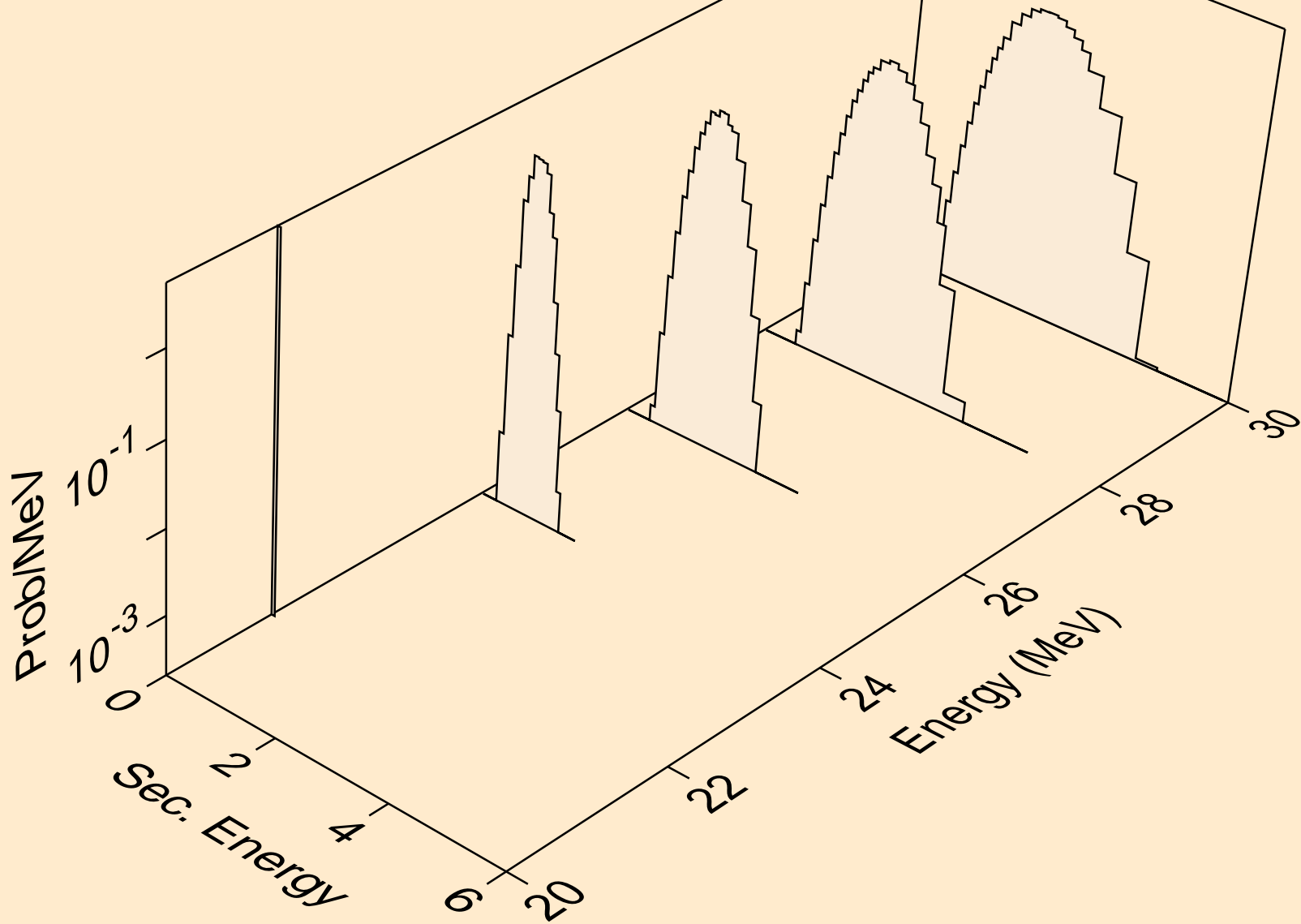
NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,t2a)



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,d2a)



NE019 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

