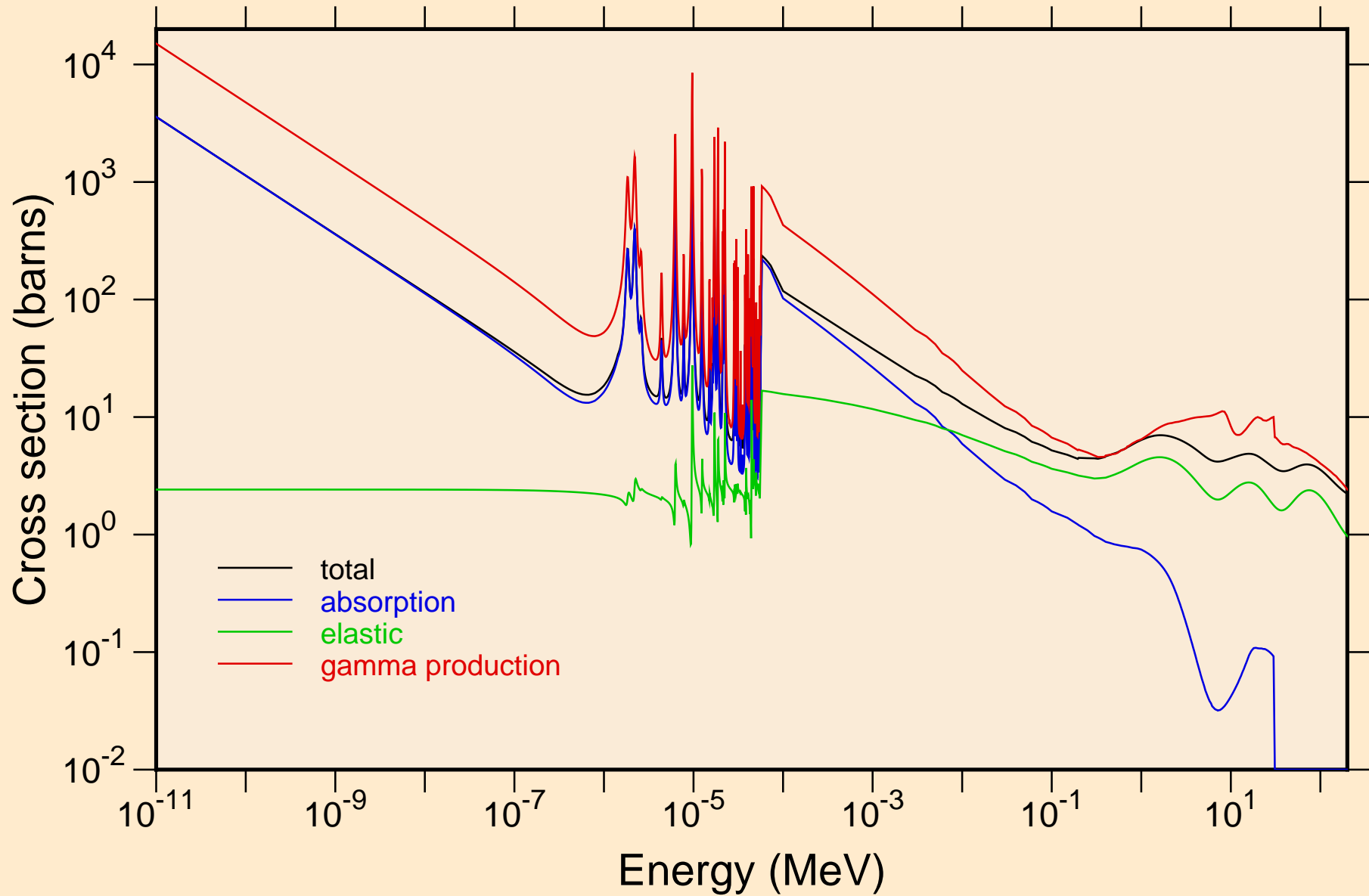
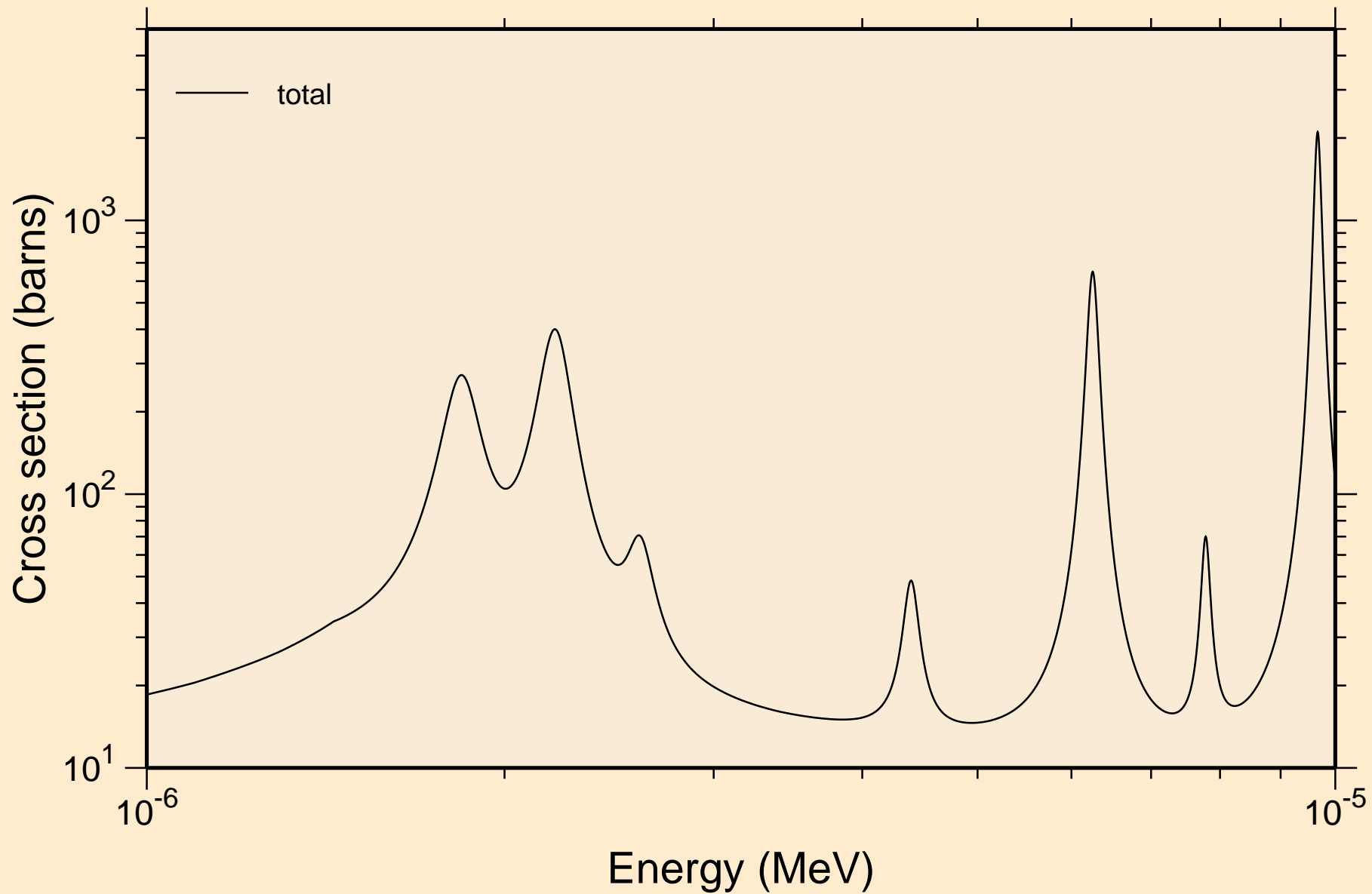


# PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

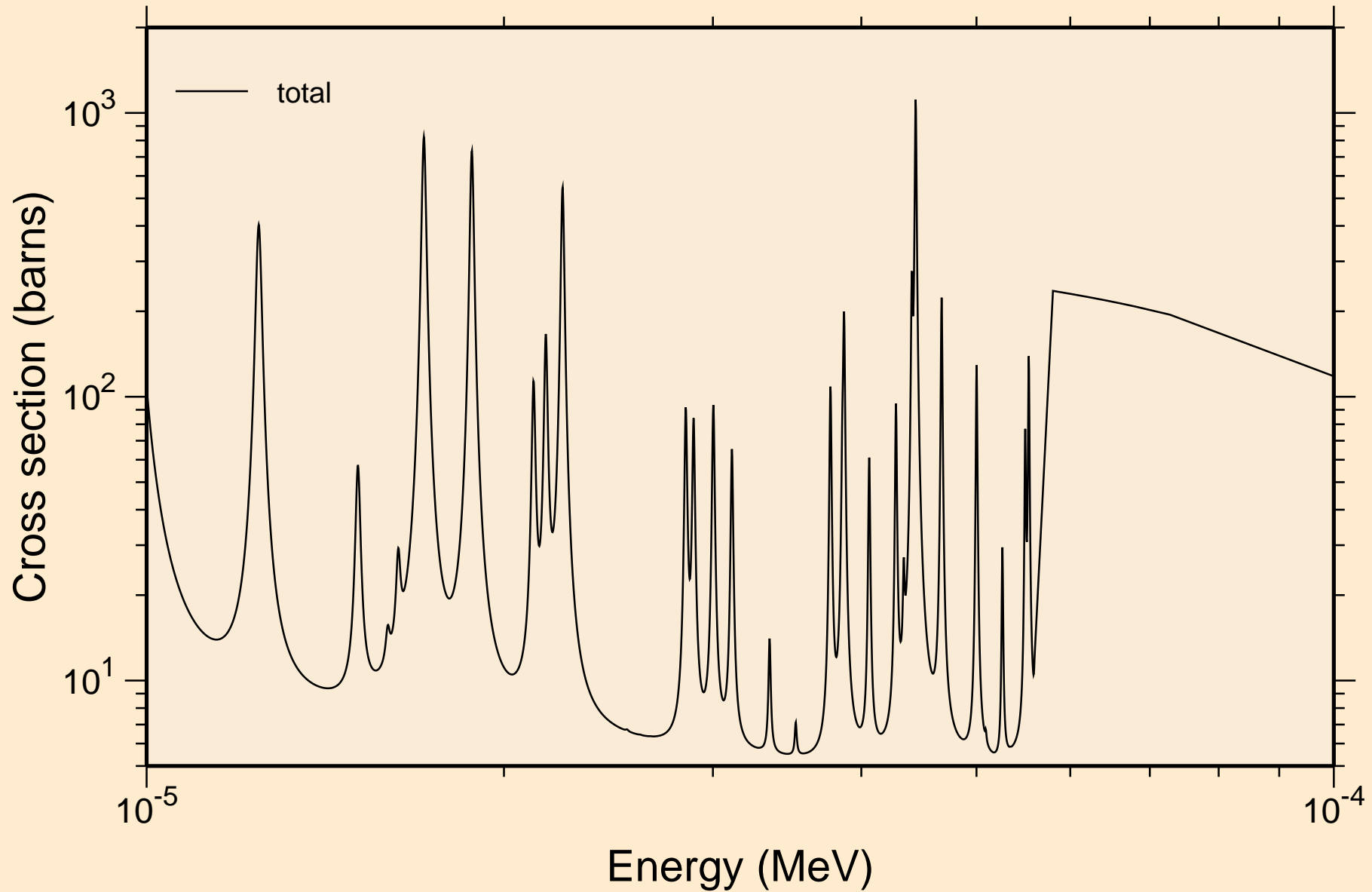
## Principal cross sections



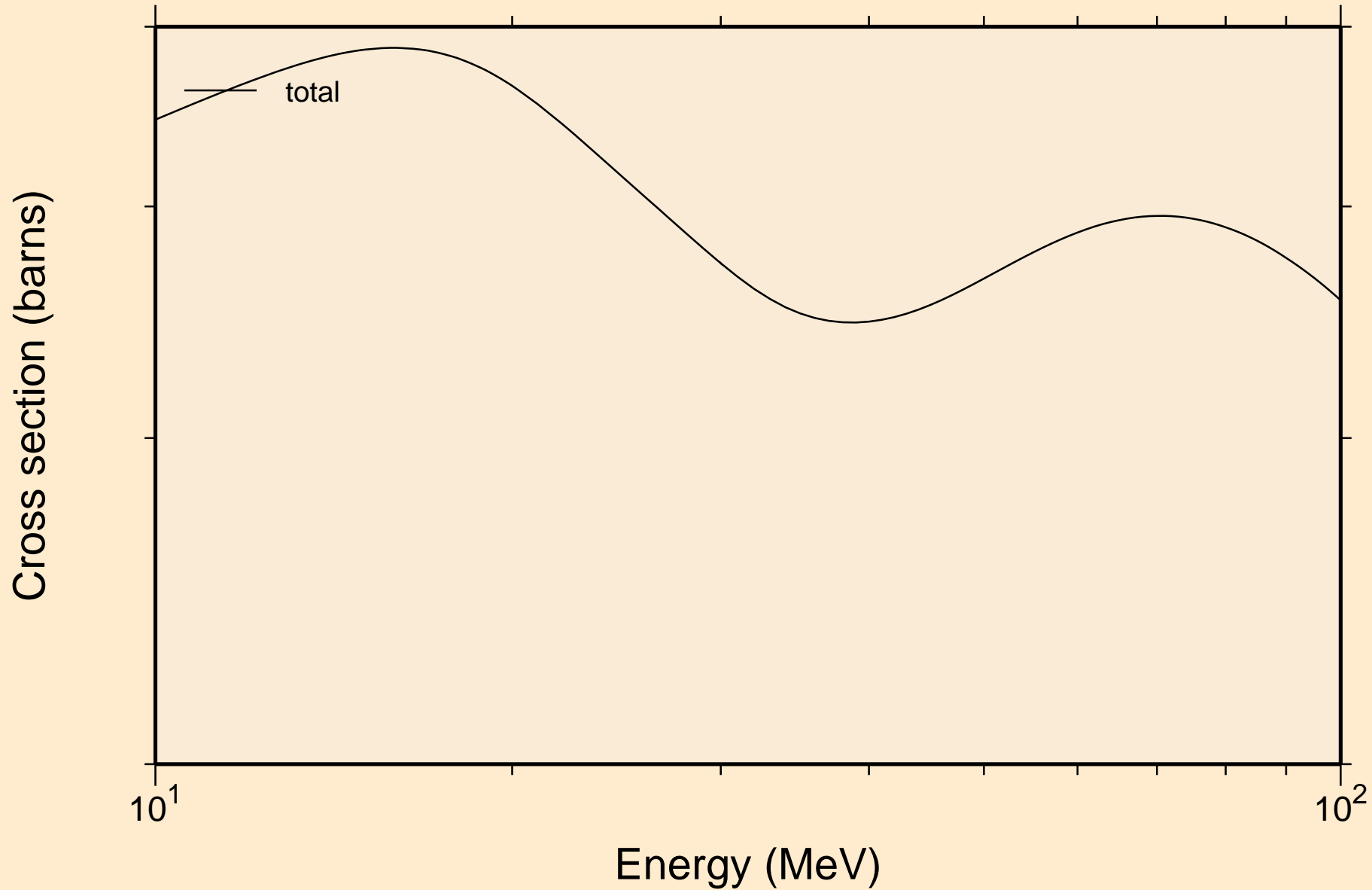
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



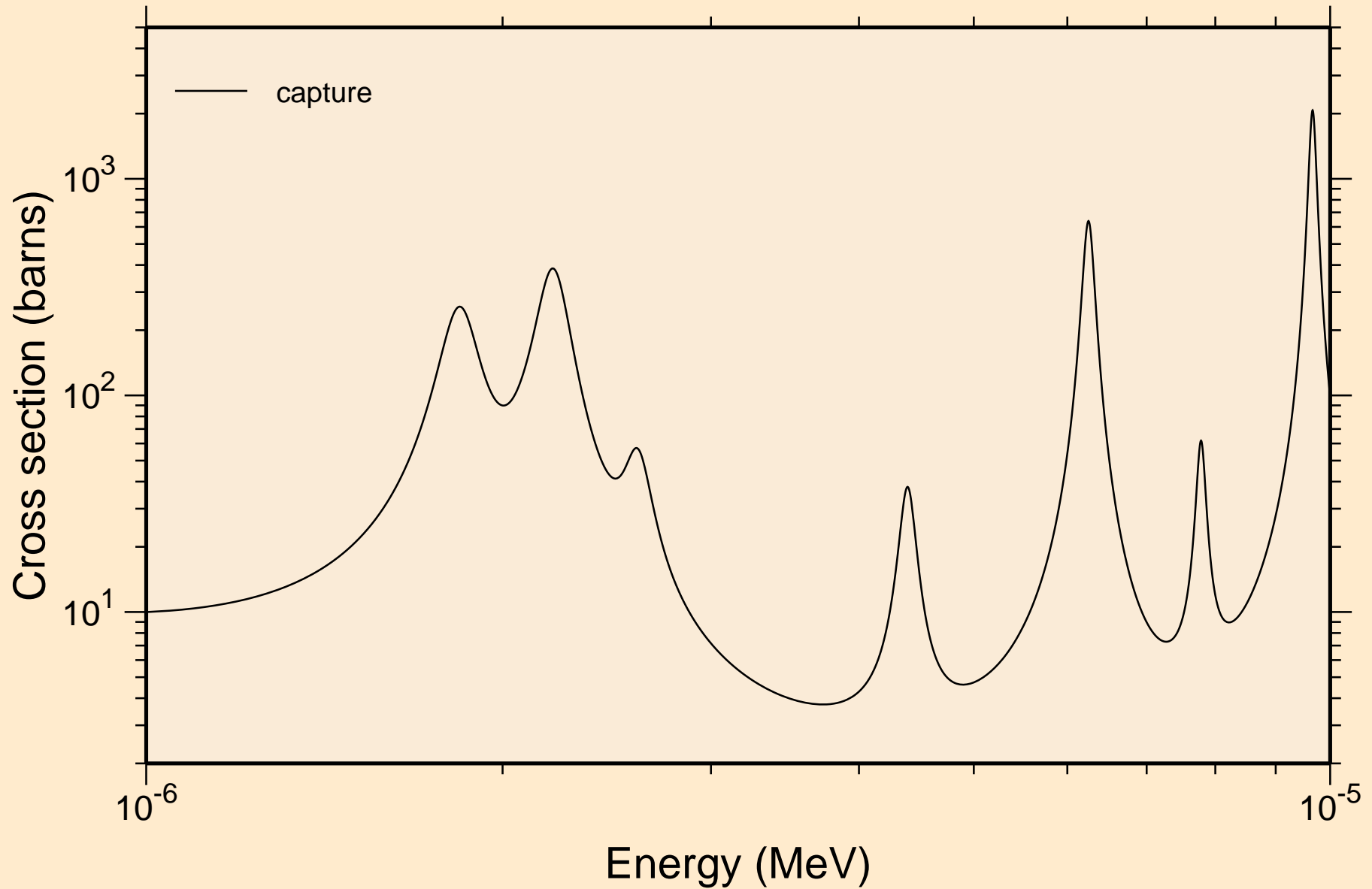
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



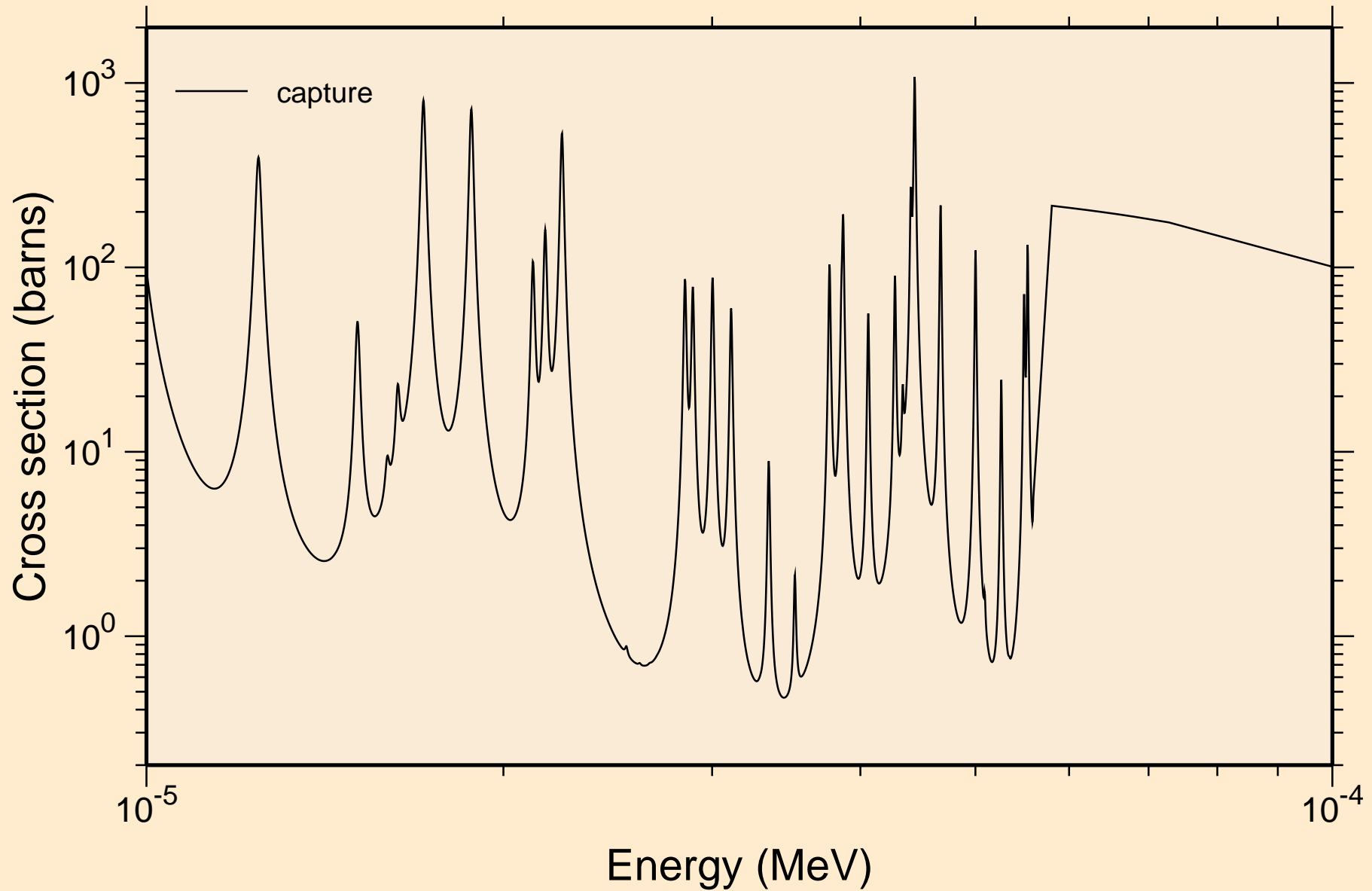
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



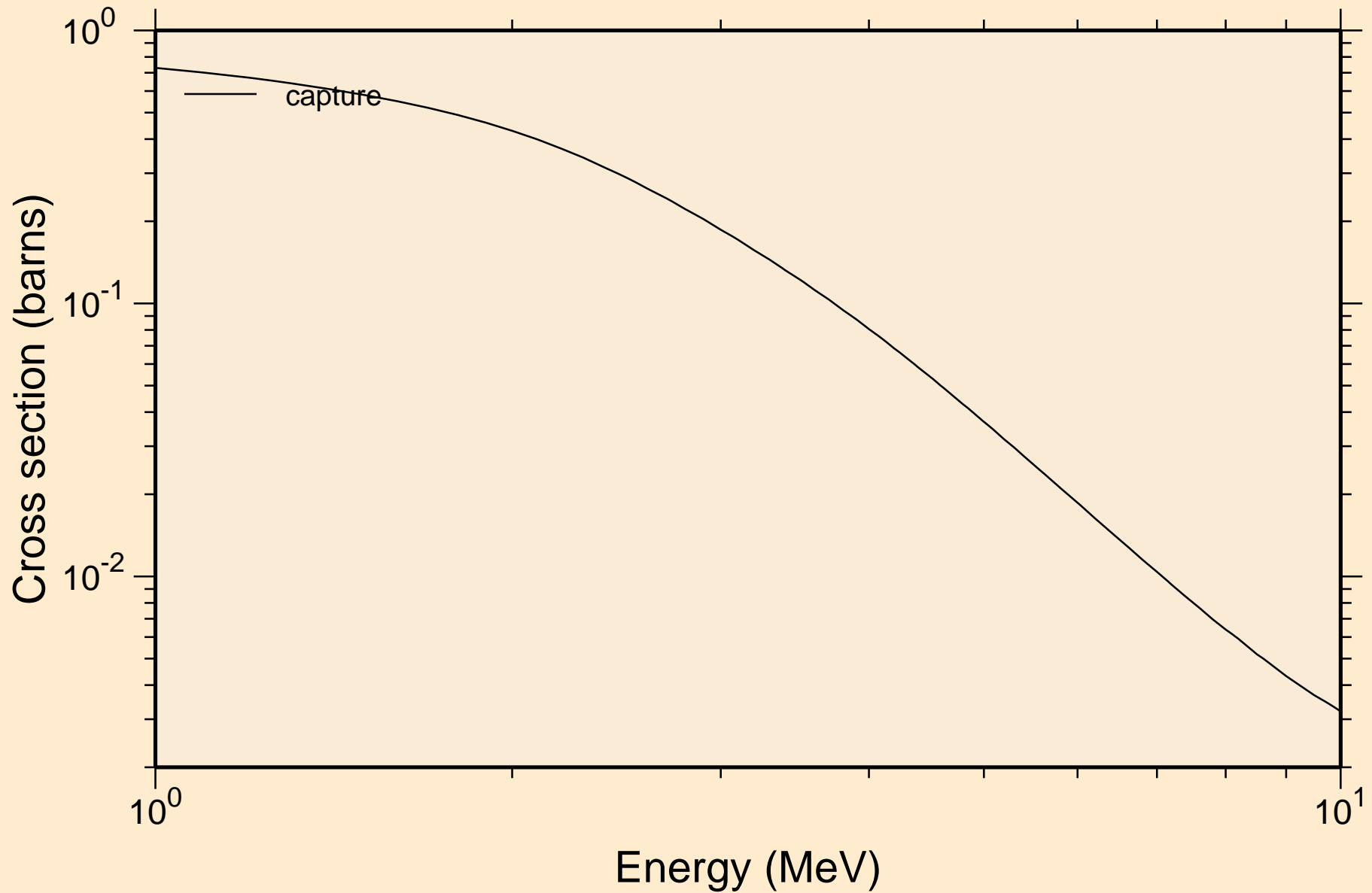
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

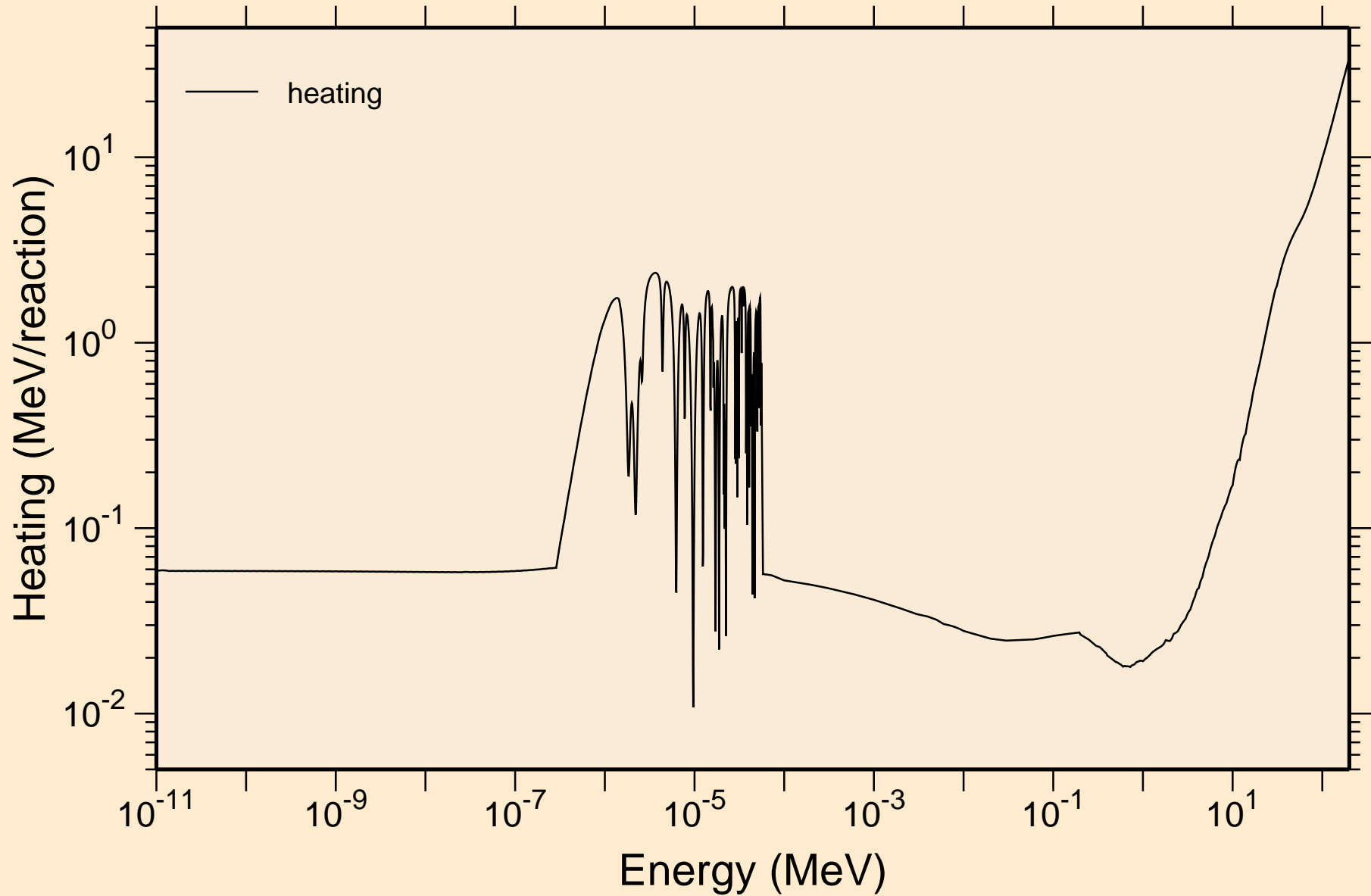


PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

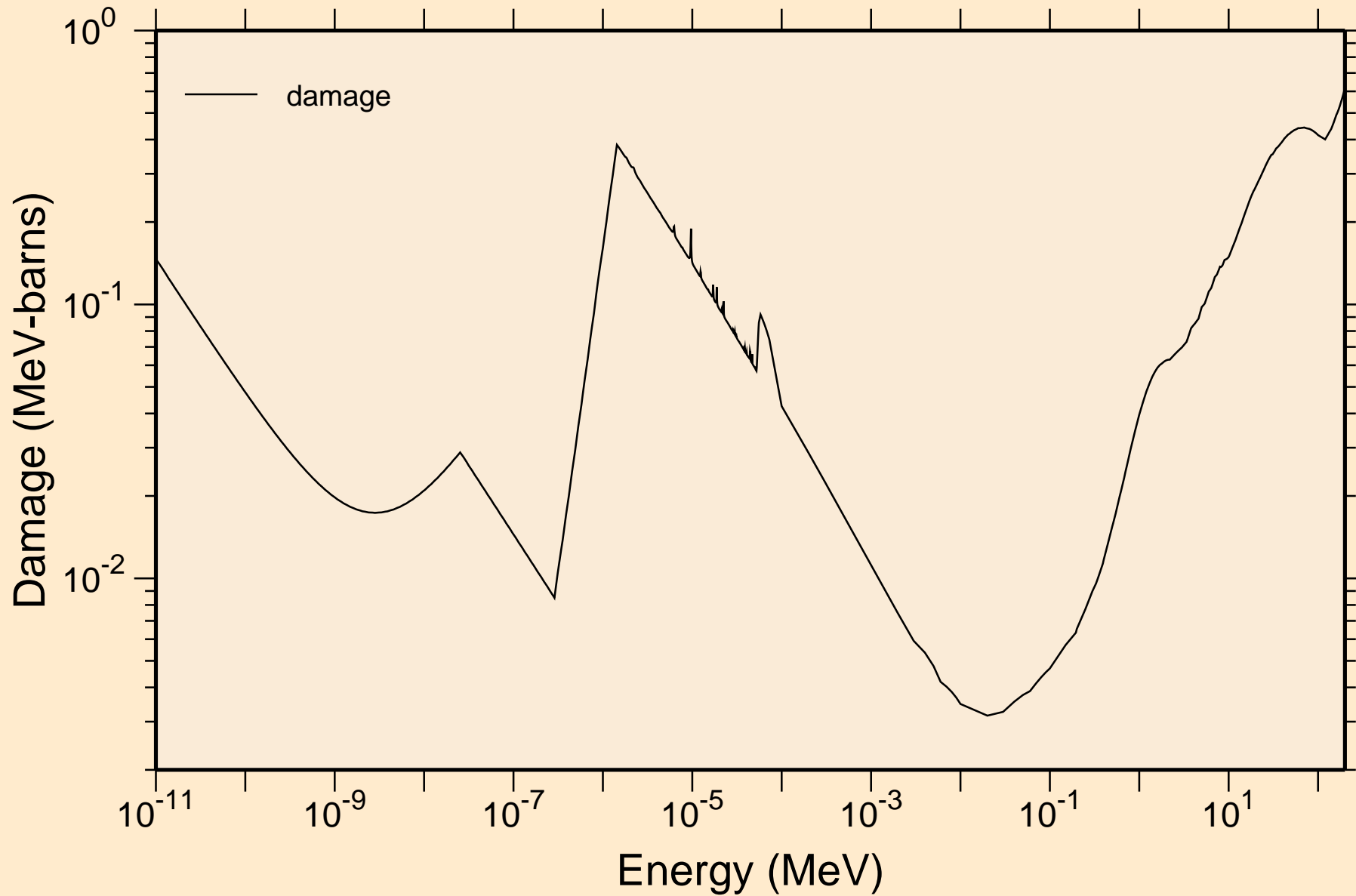


# PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

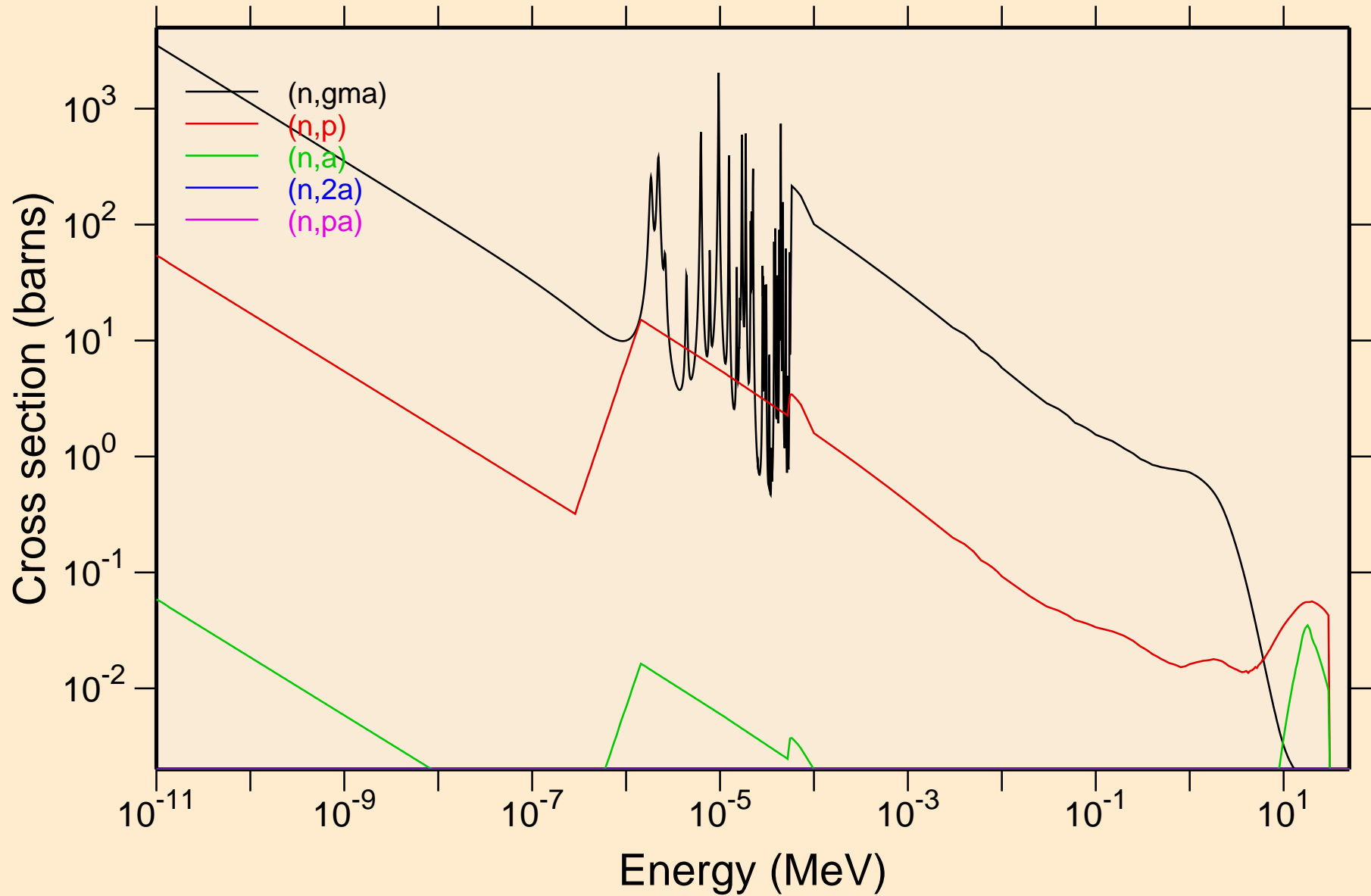
## Heating



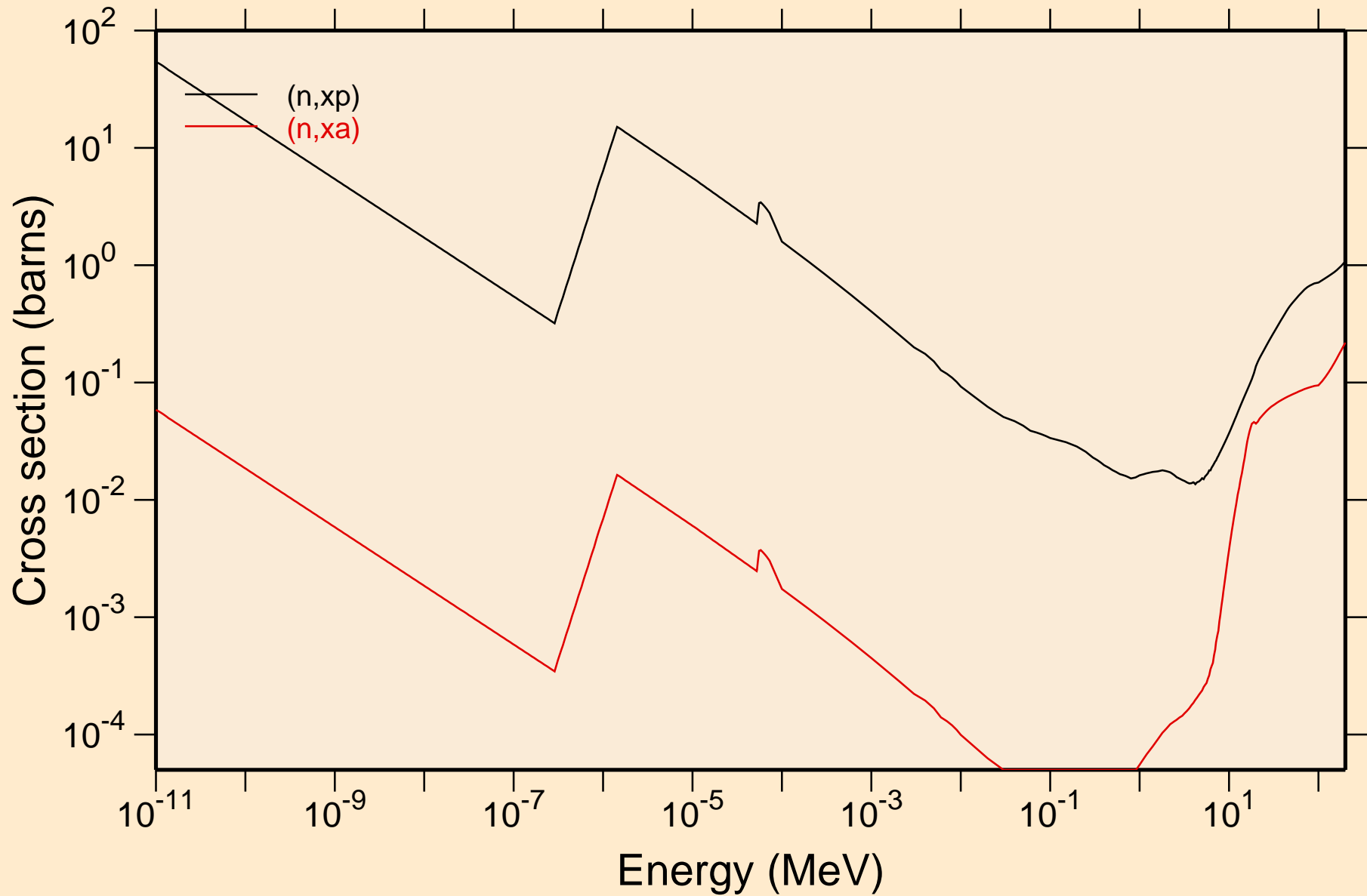
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

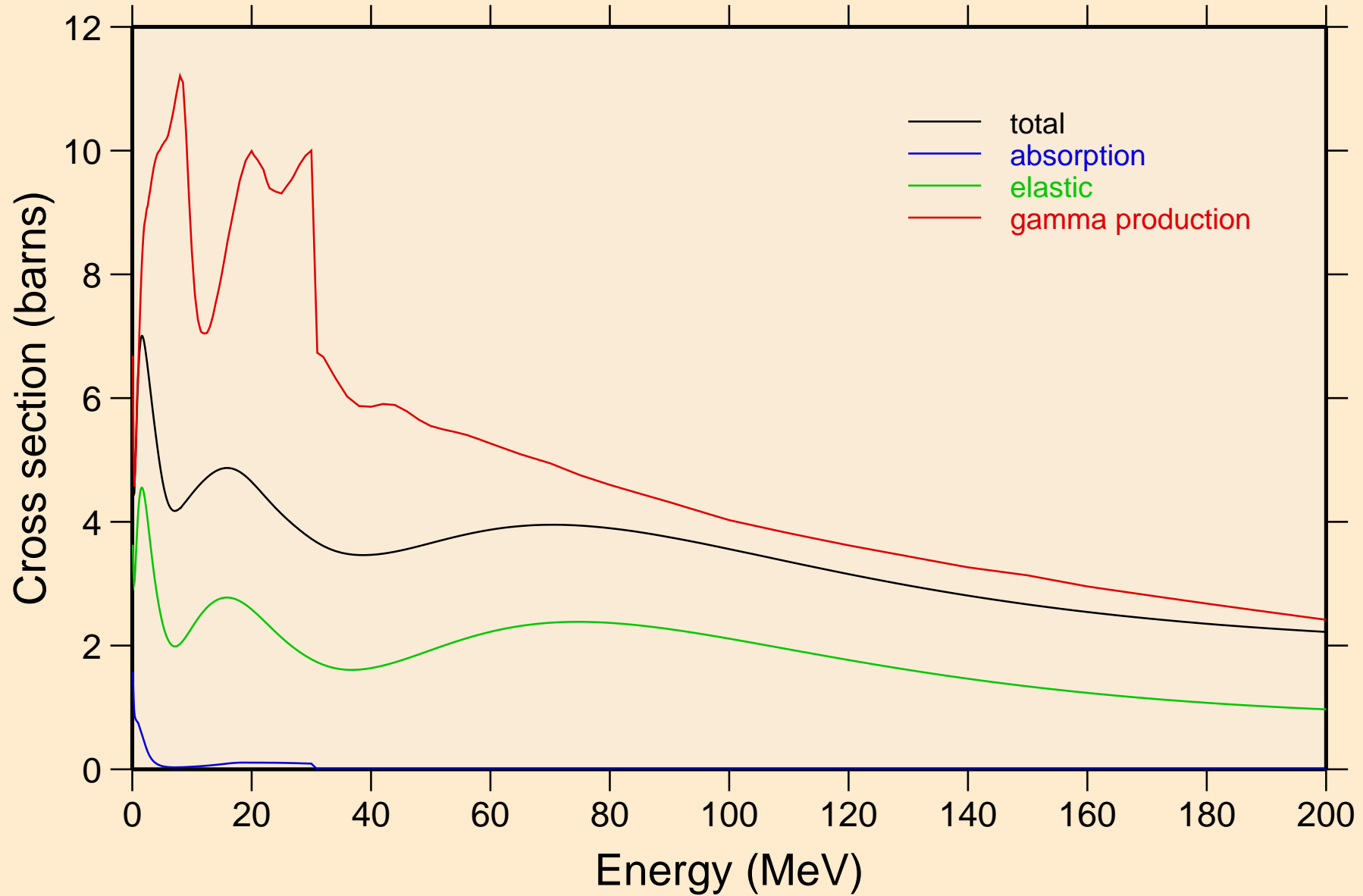


PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



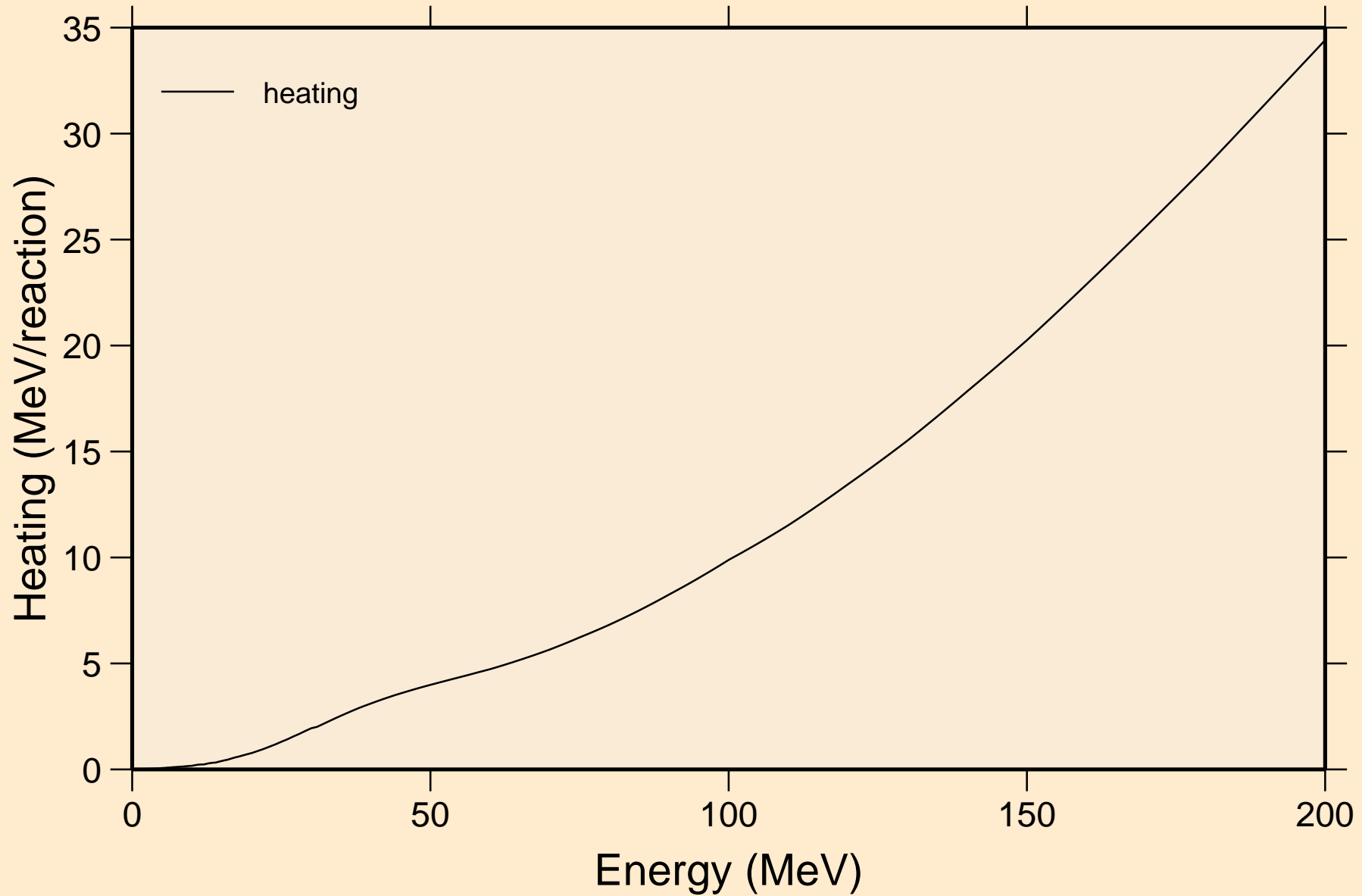
# PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

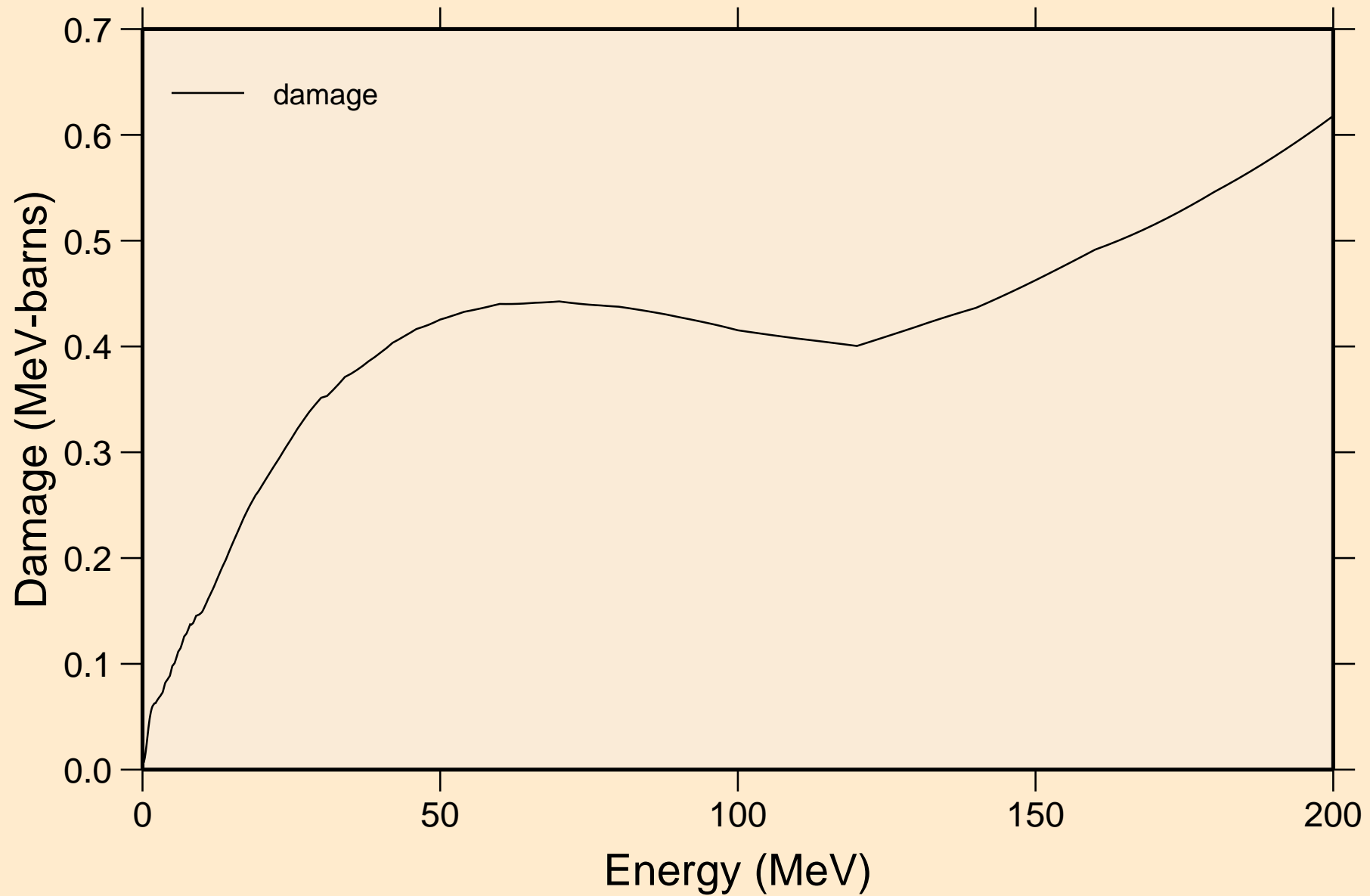


PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

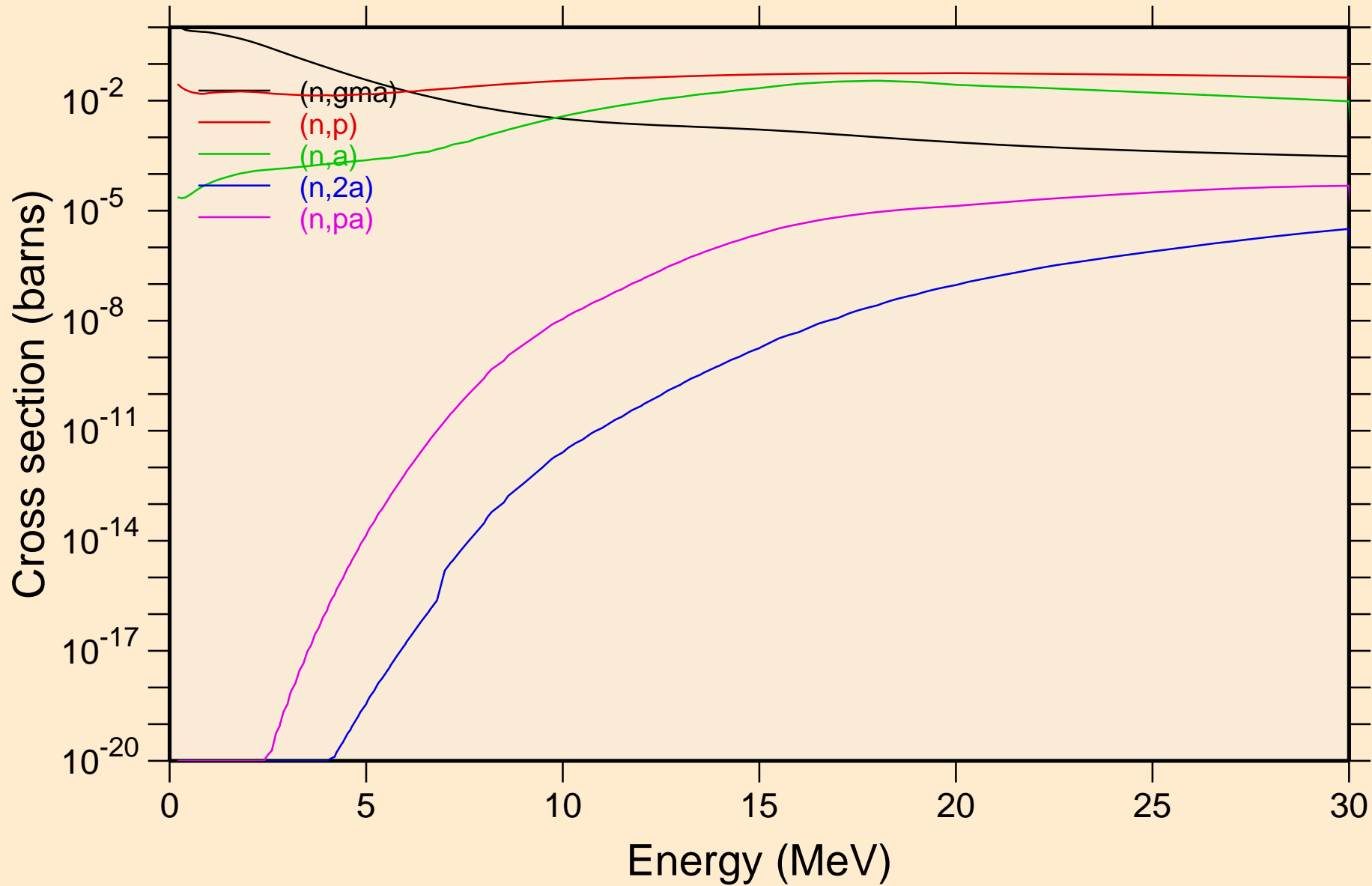
Heating



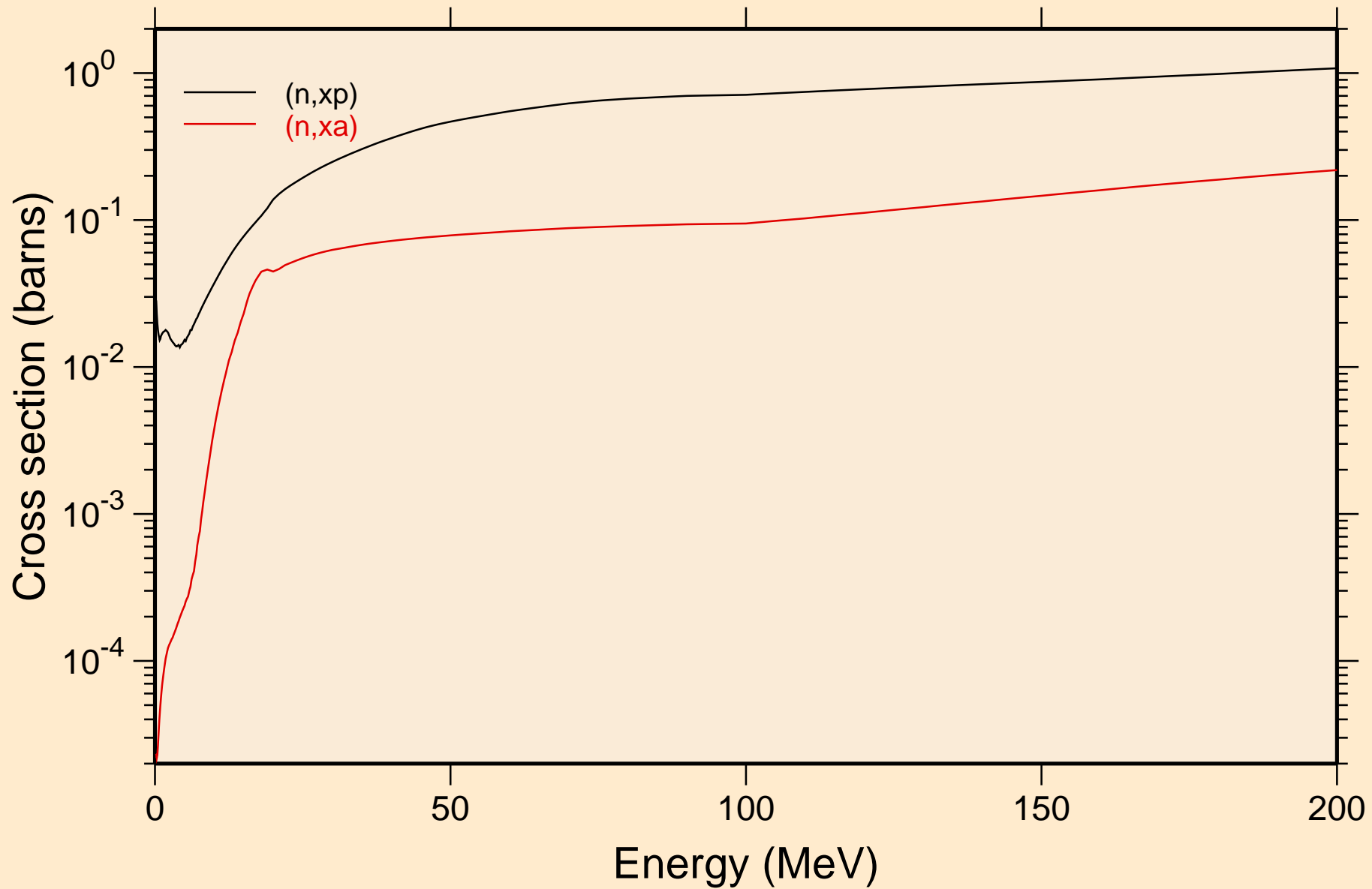
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



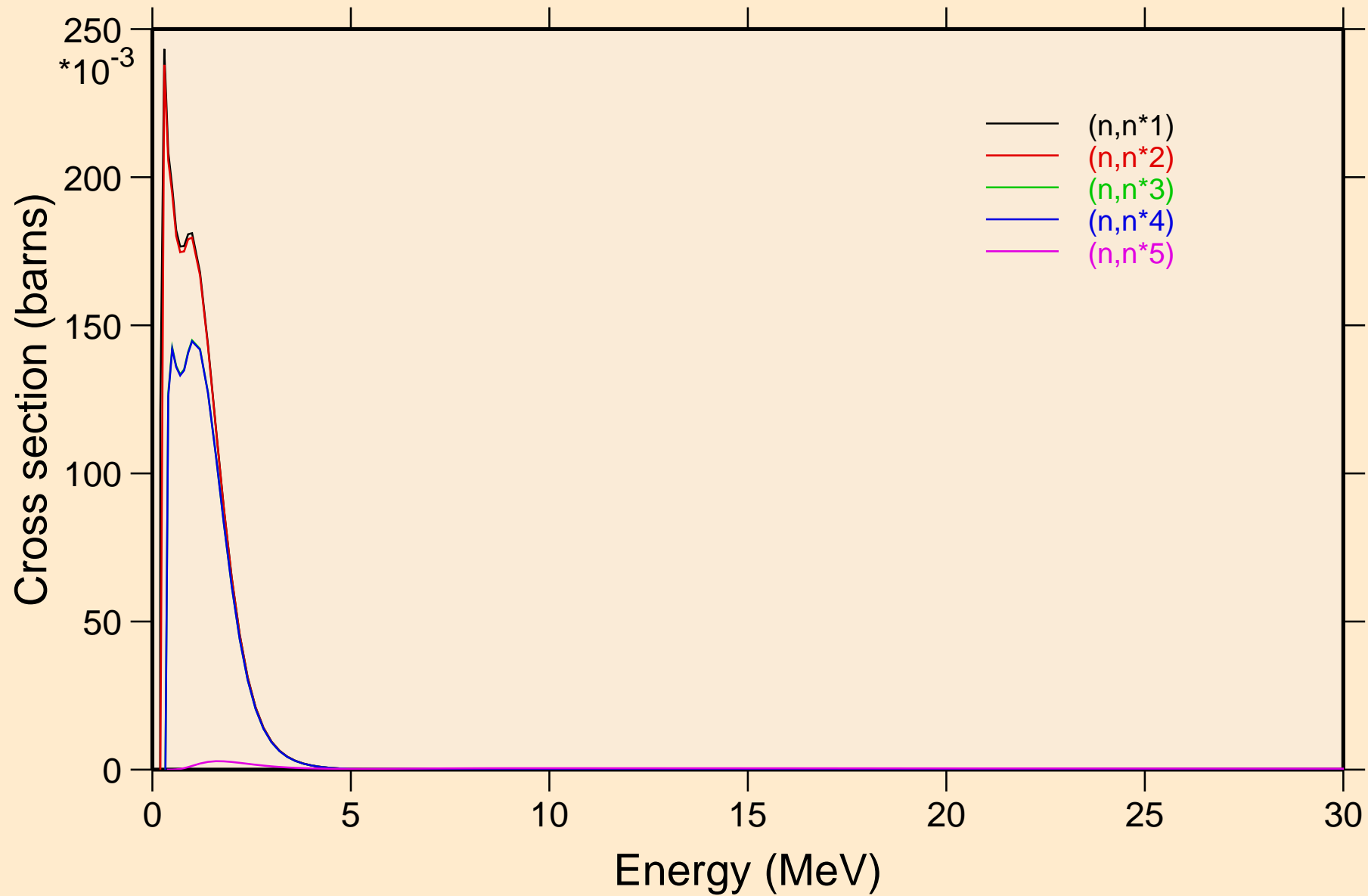
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Non-threshold reactions



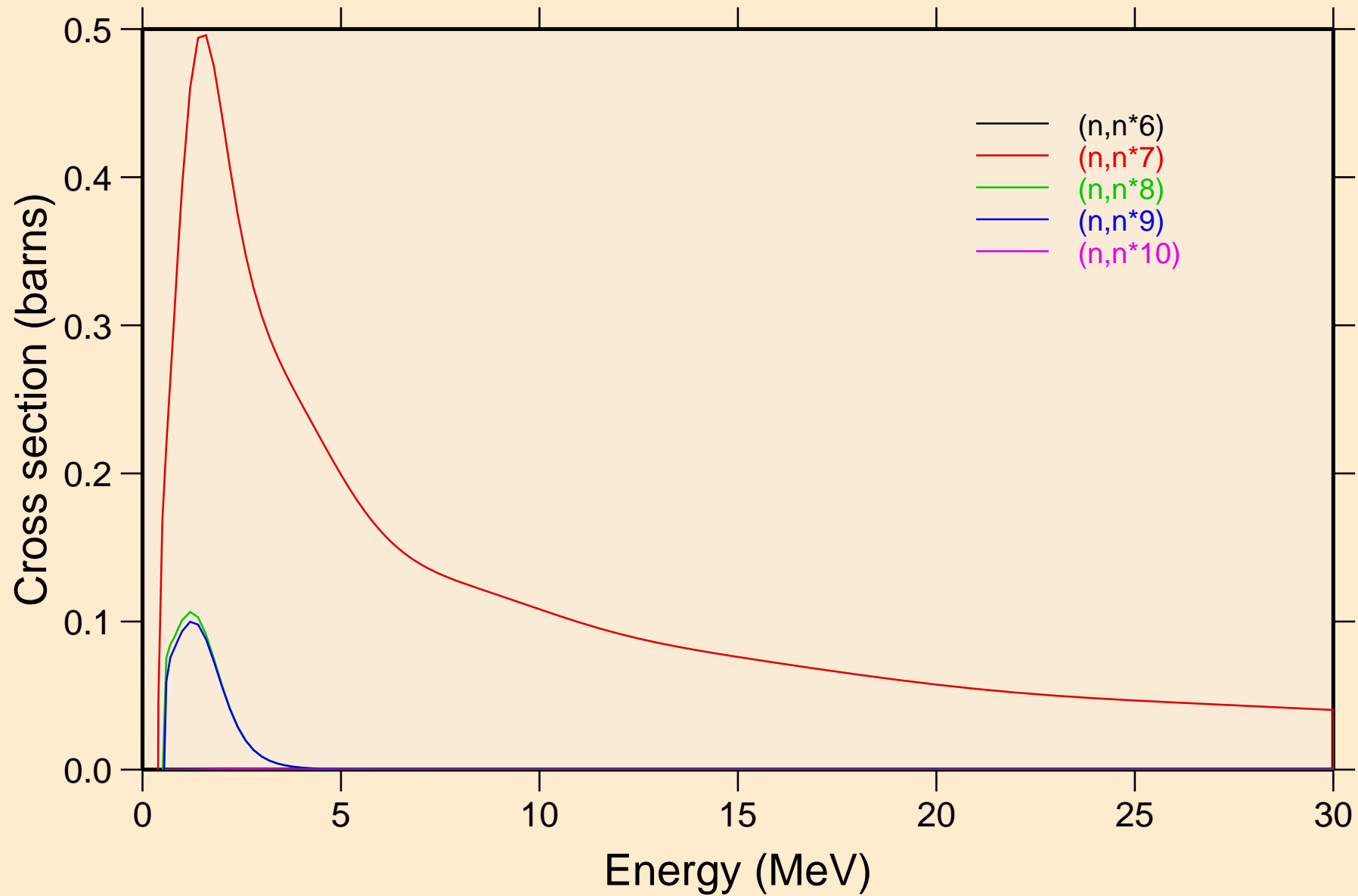
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Non-threshold reactions



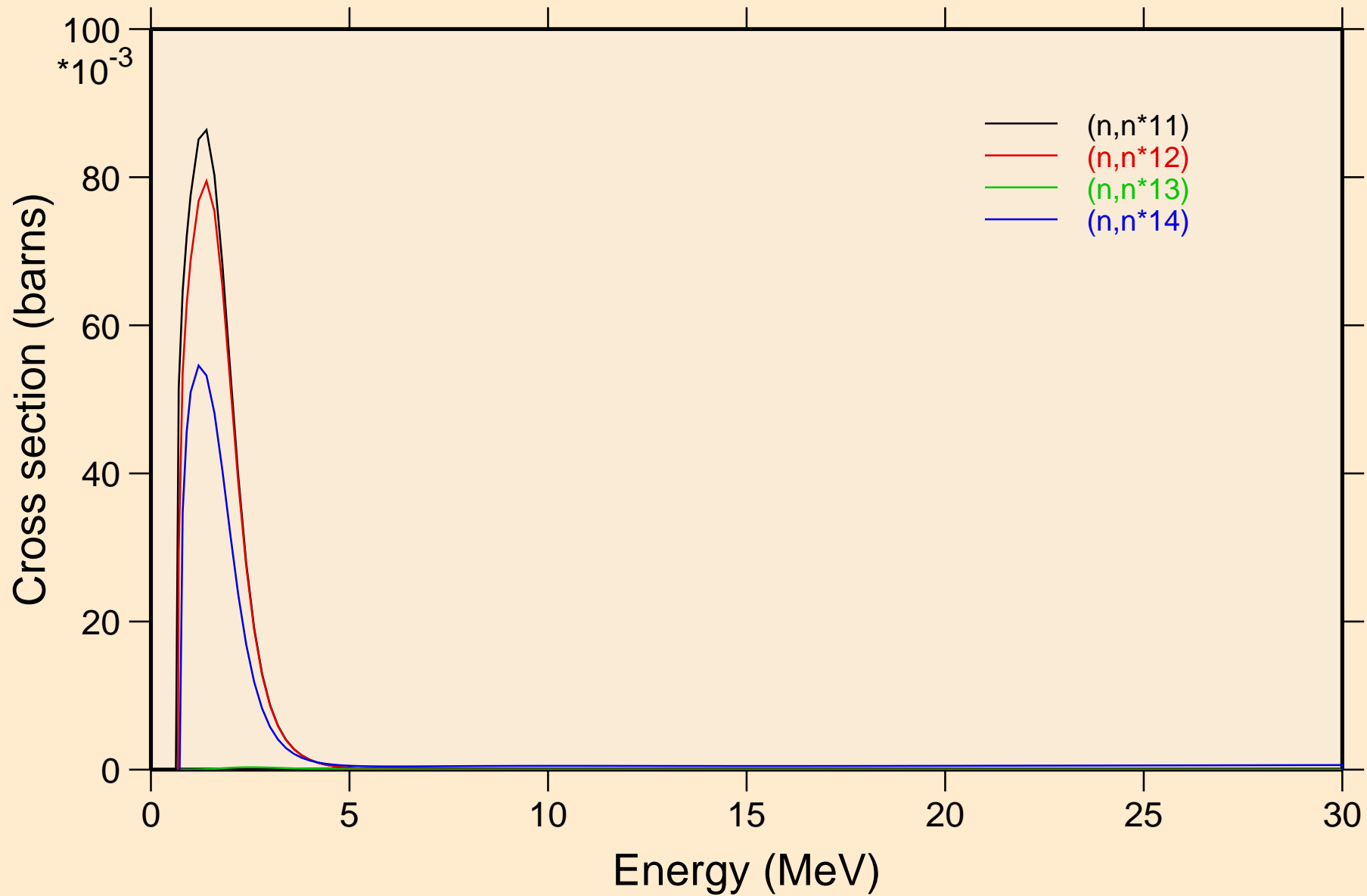
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



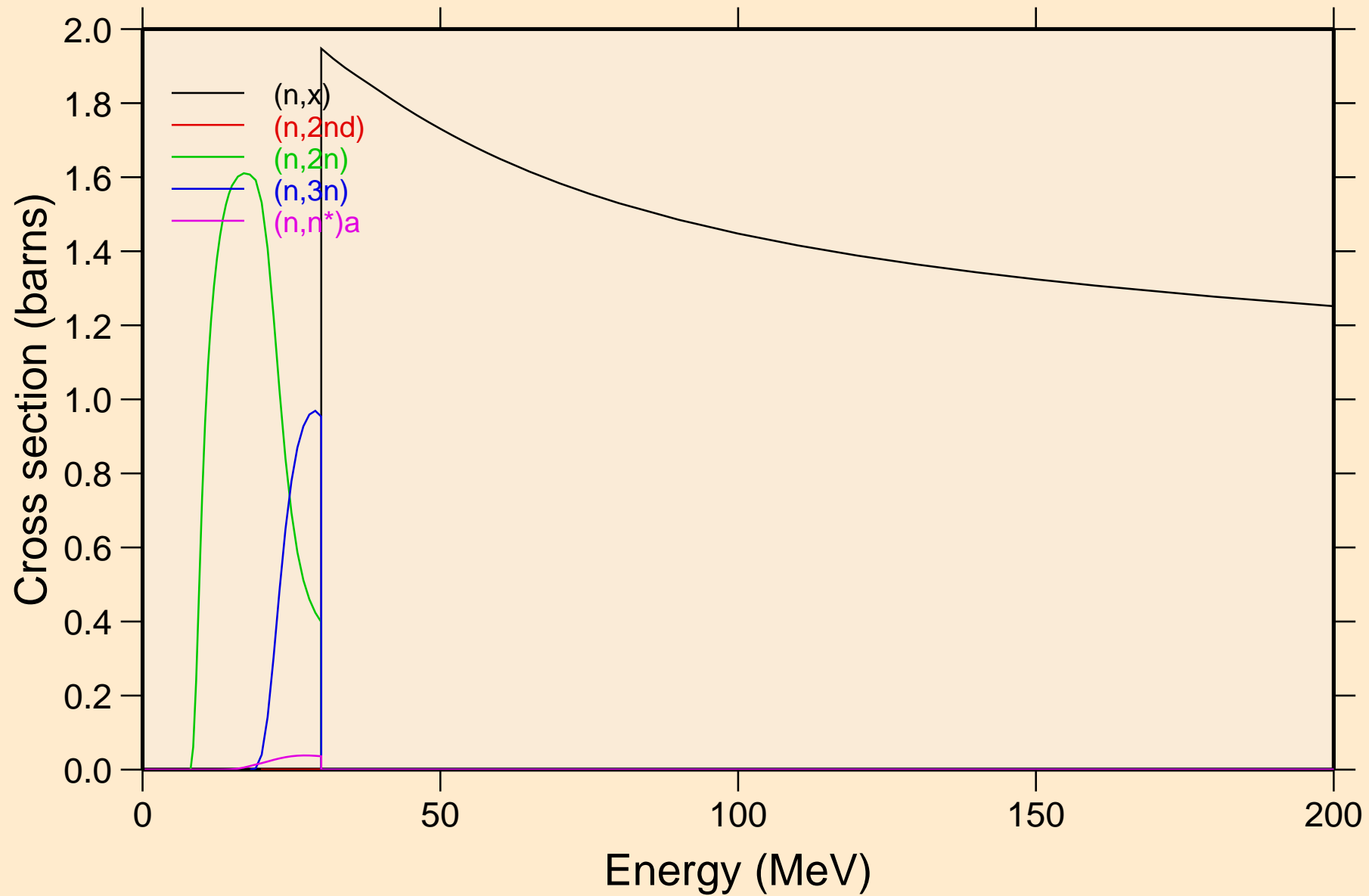
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



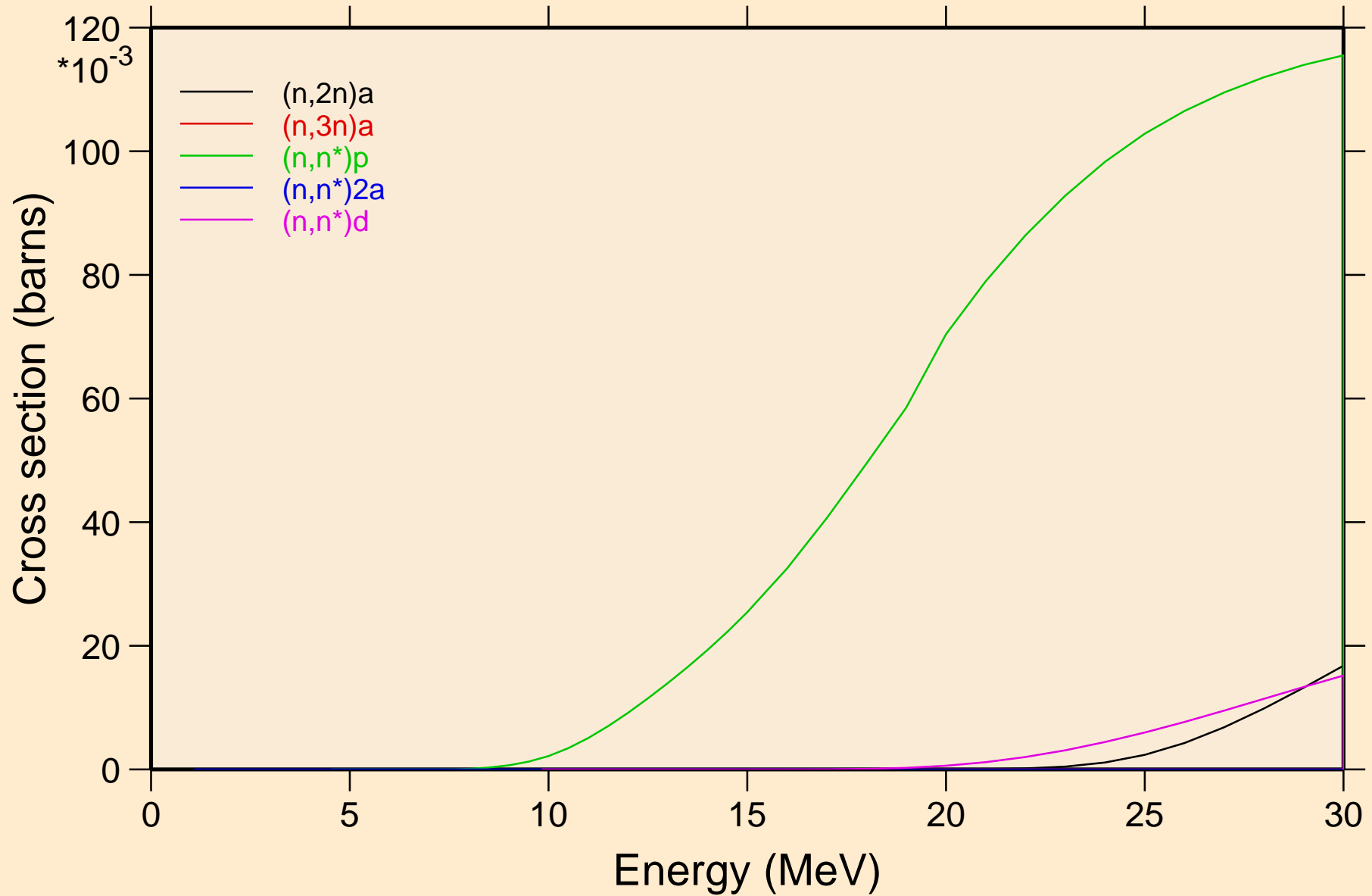
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



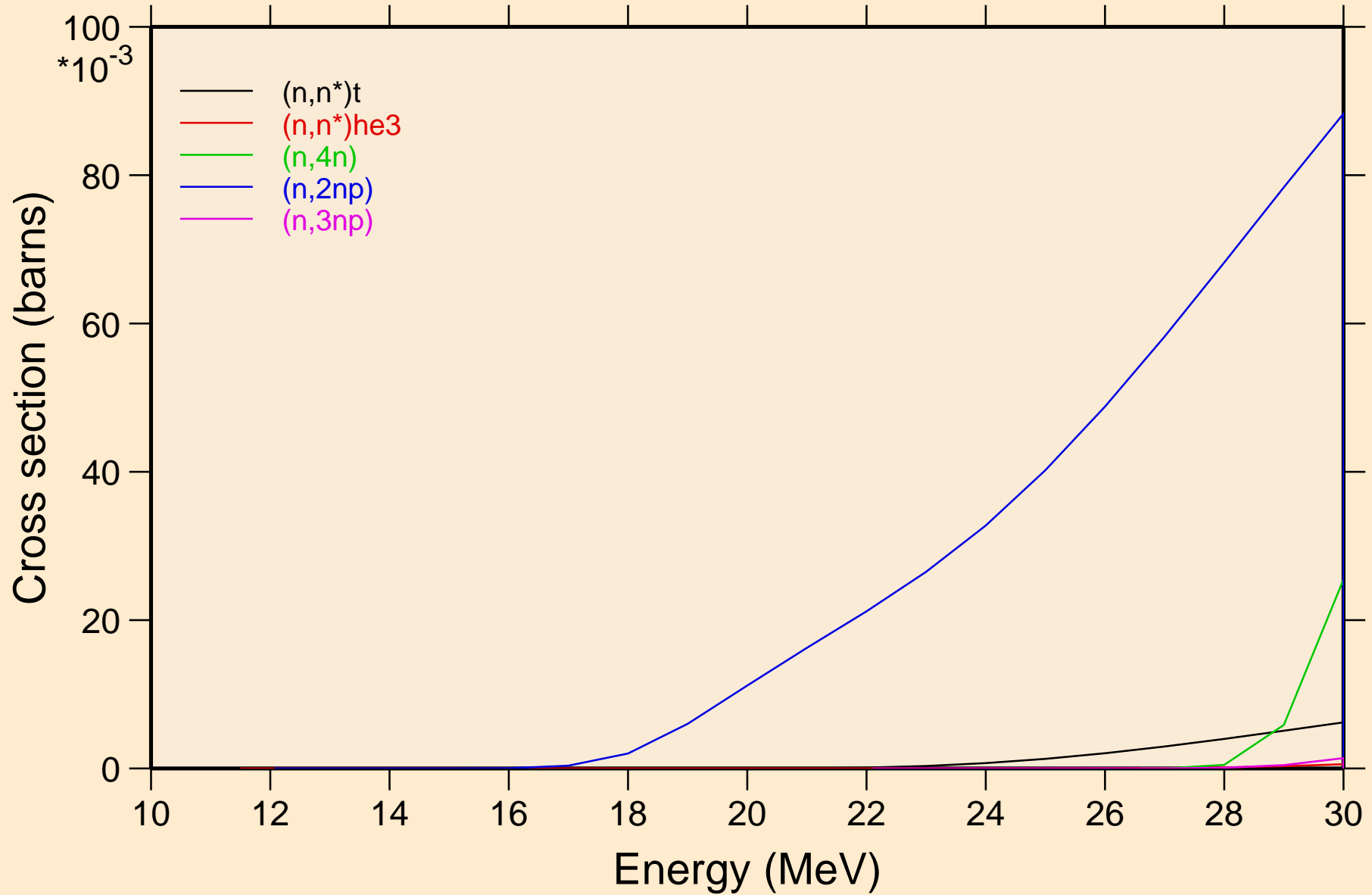
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



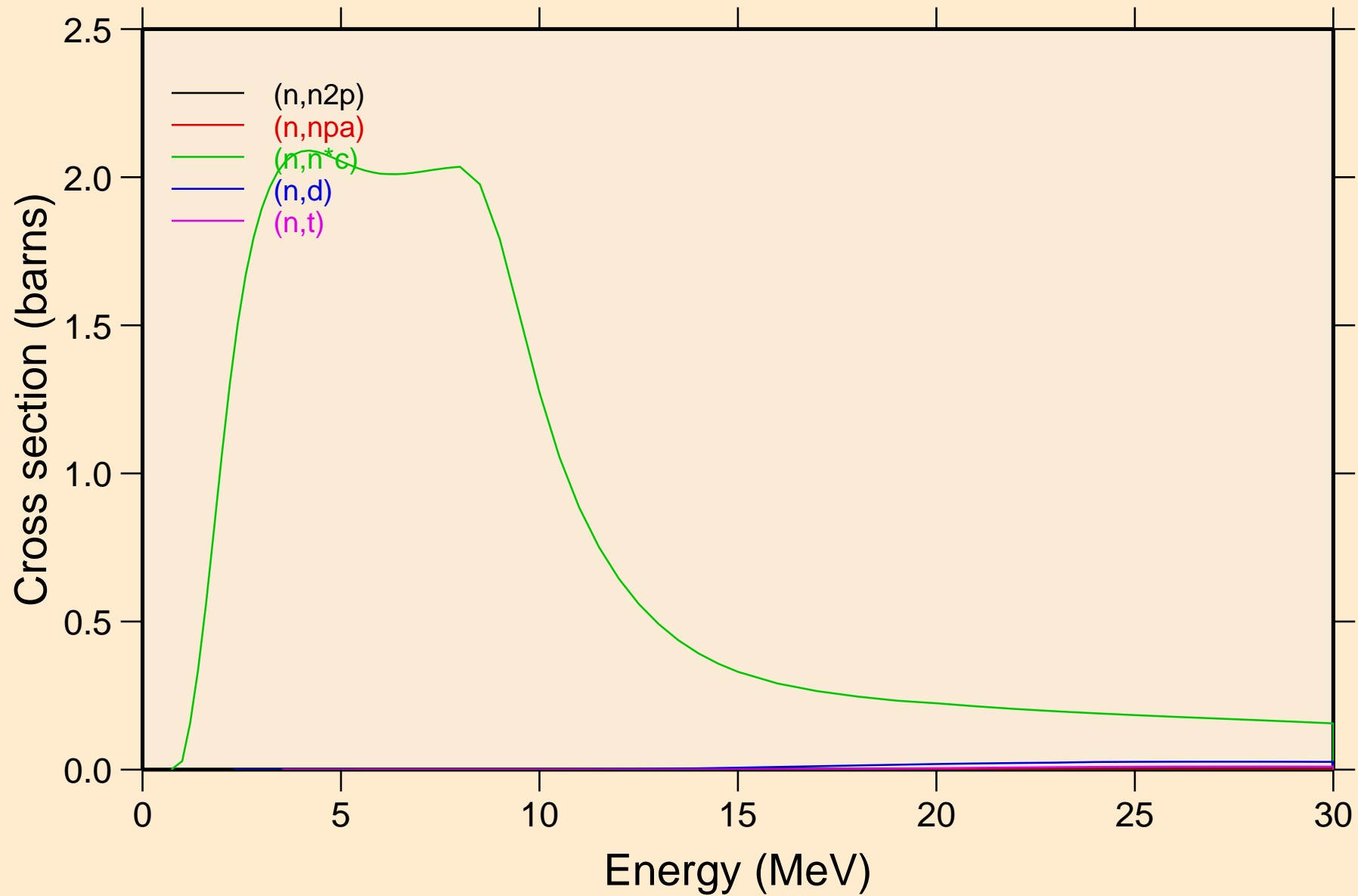
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



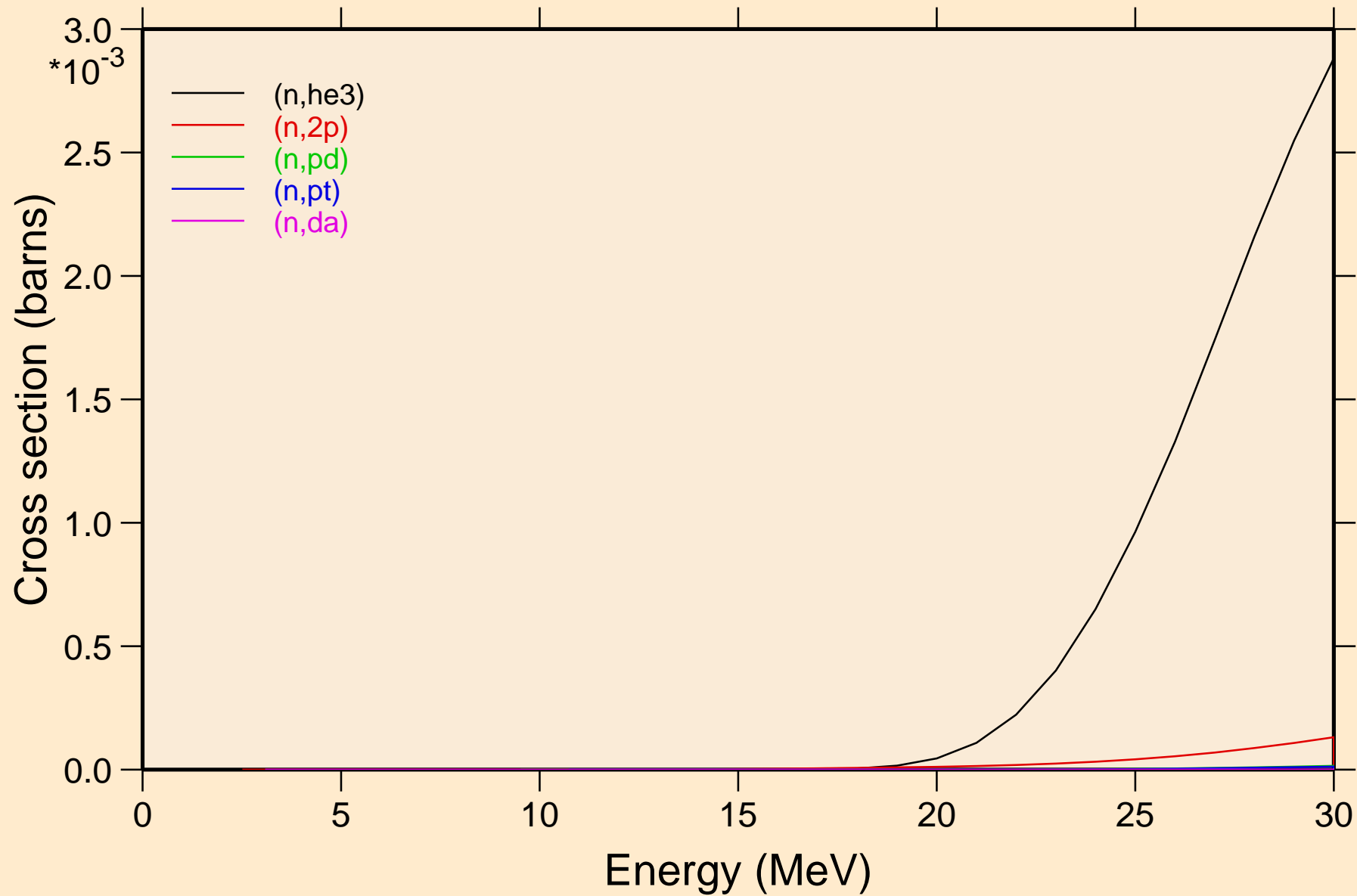
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Threshold reactions



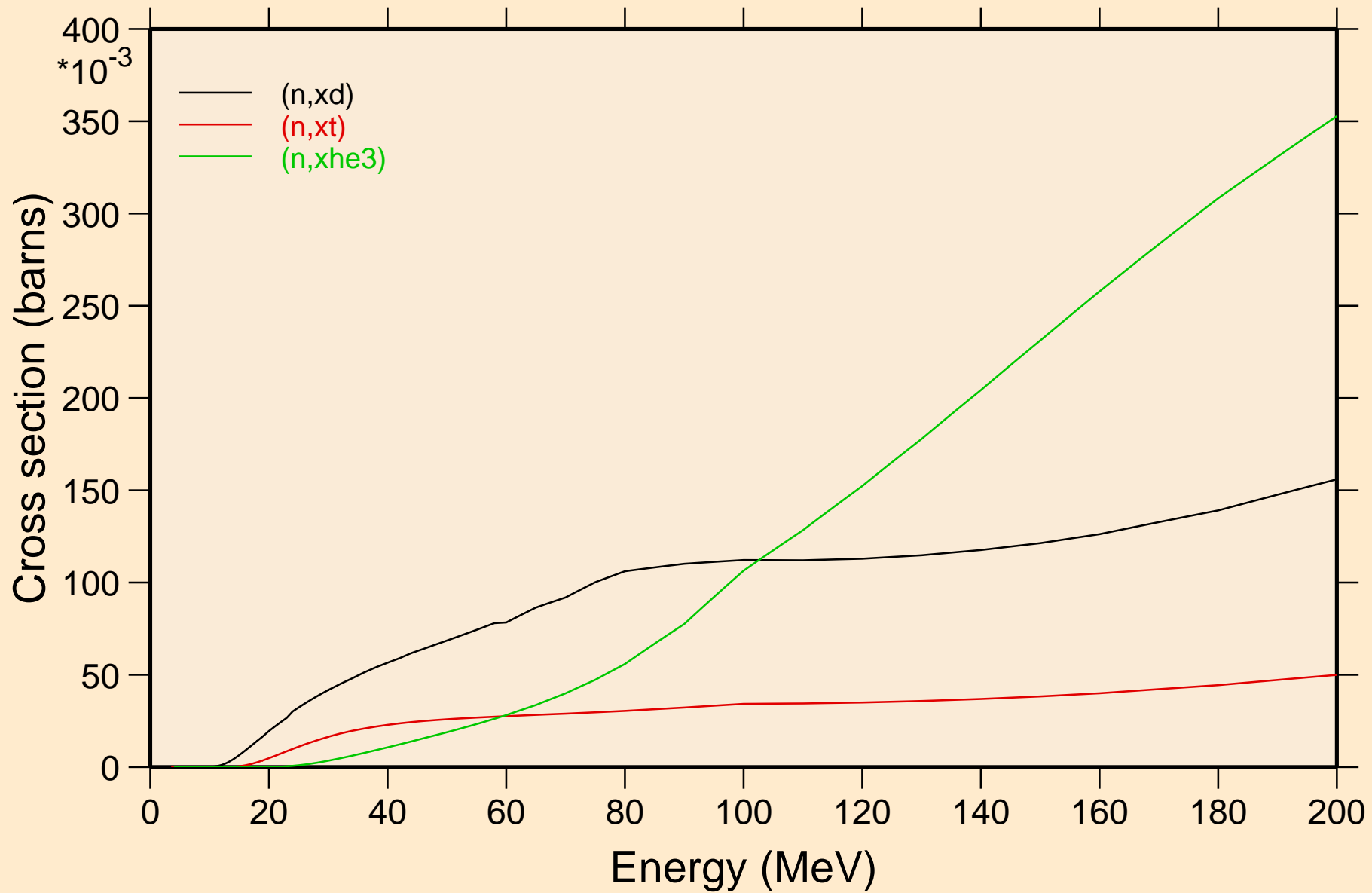
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Threshold reactions



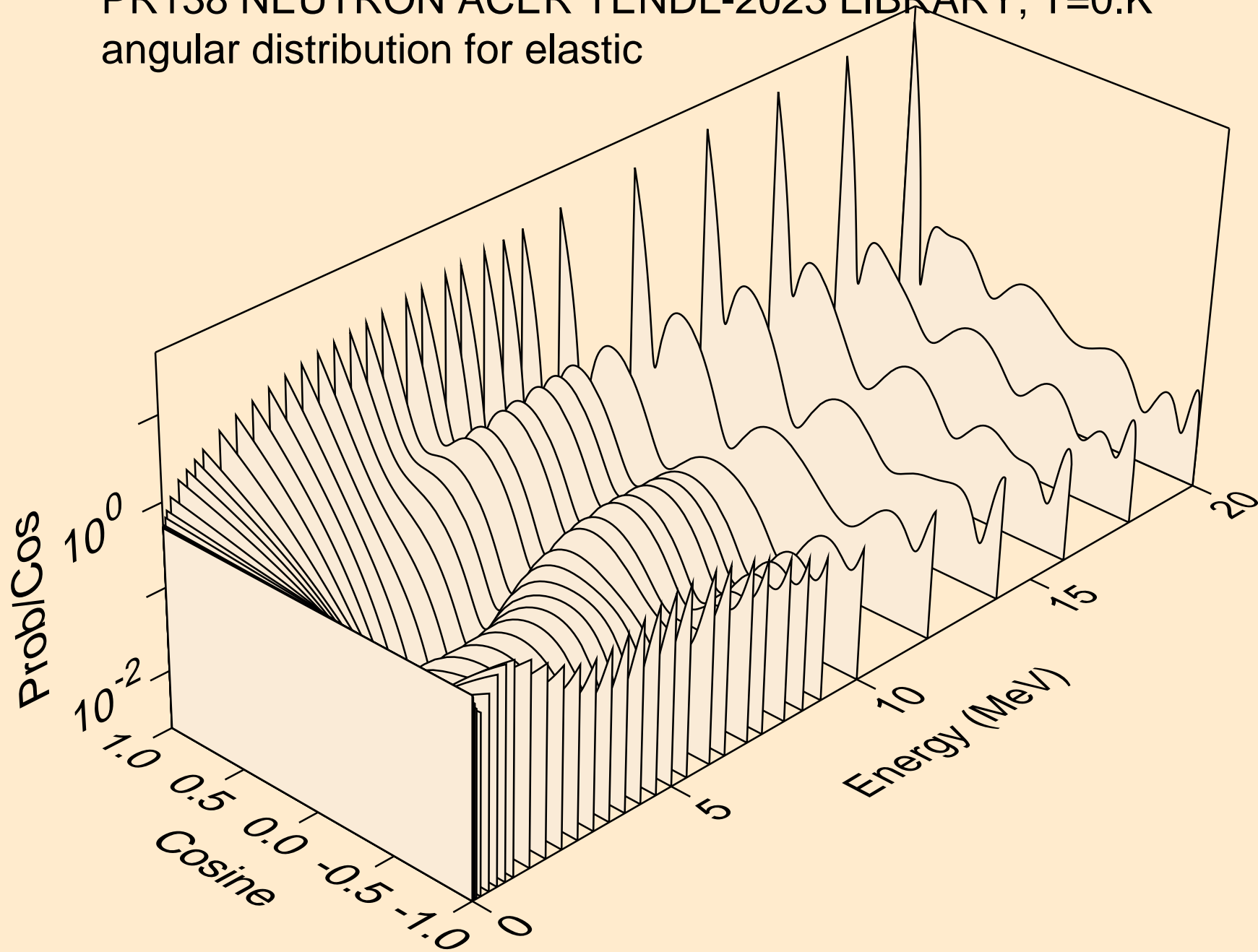
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Threshold reactions



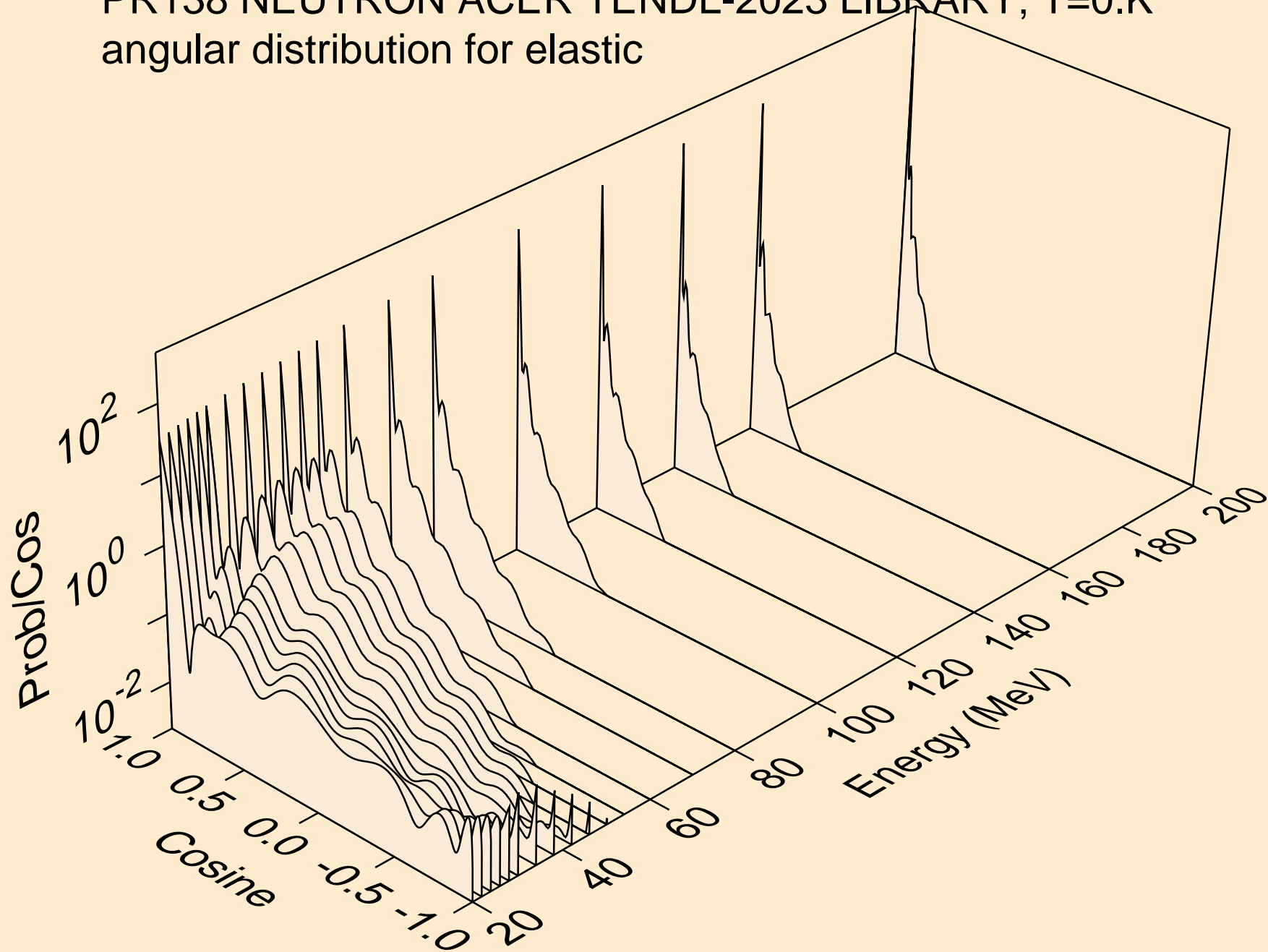
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



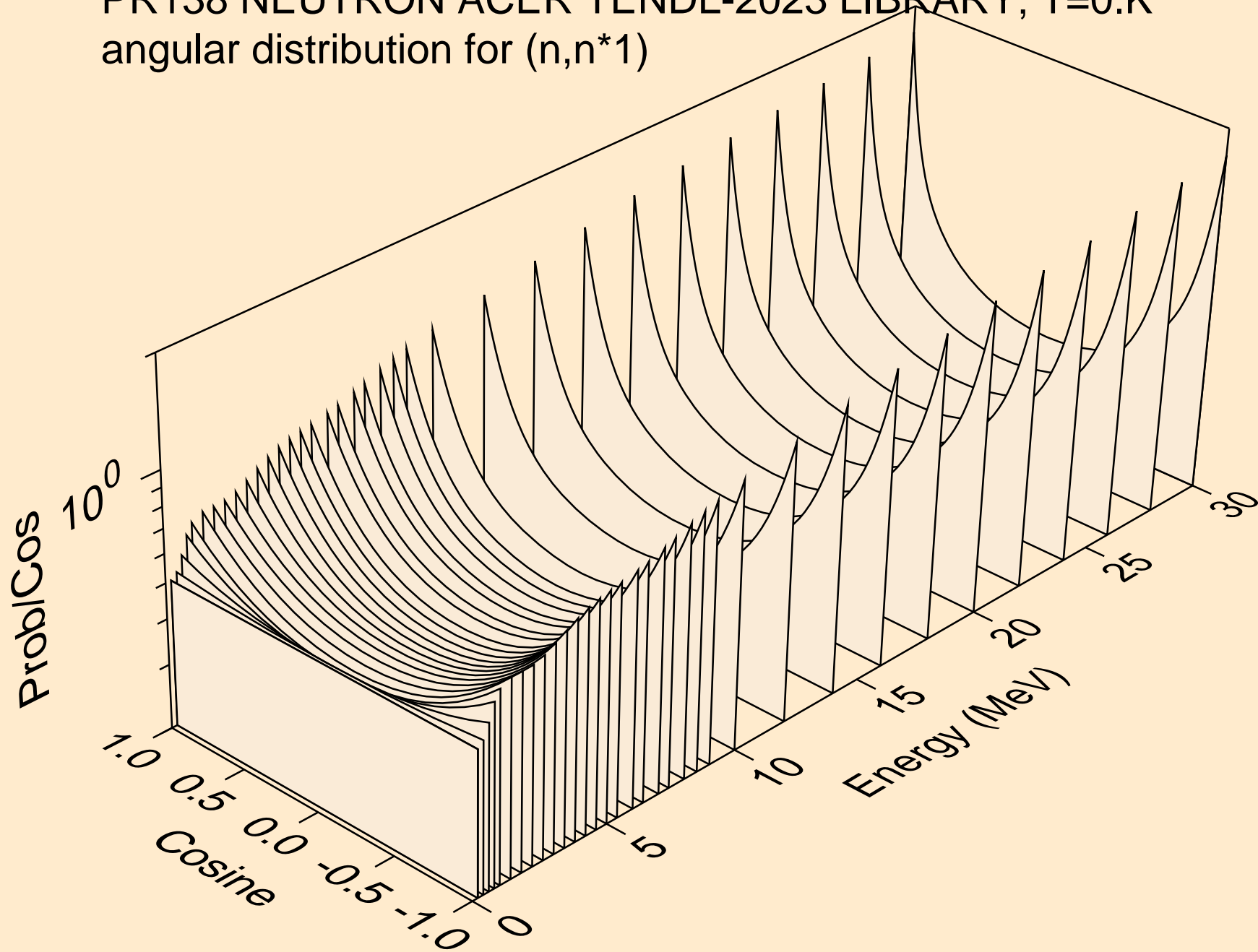
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



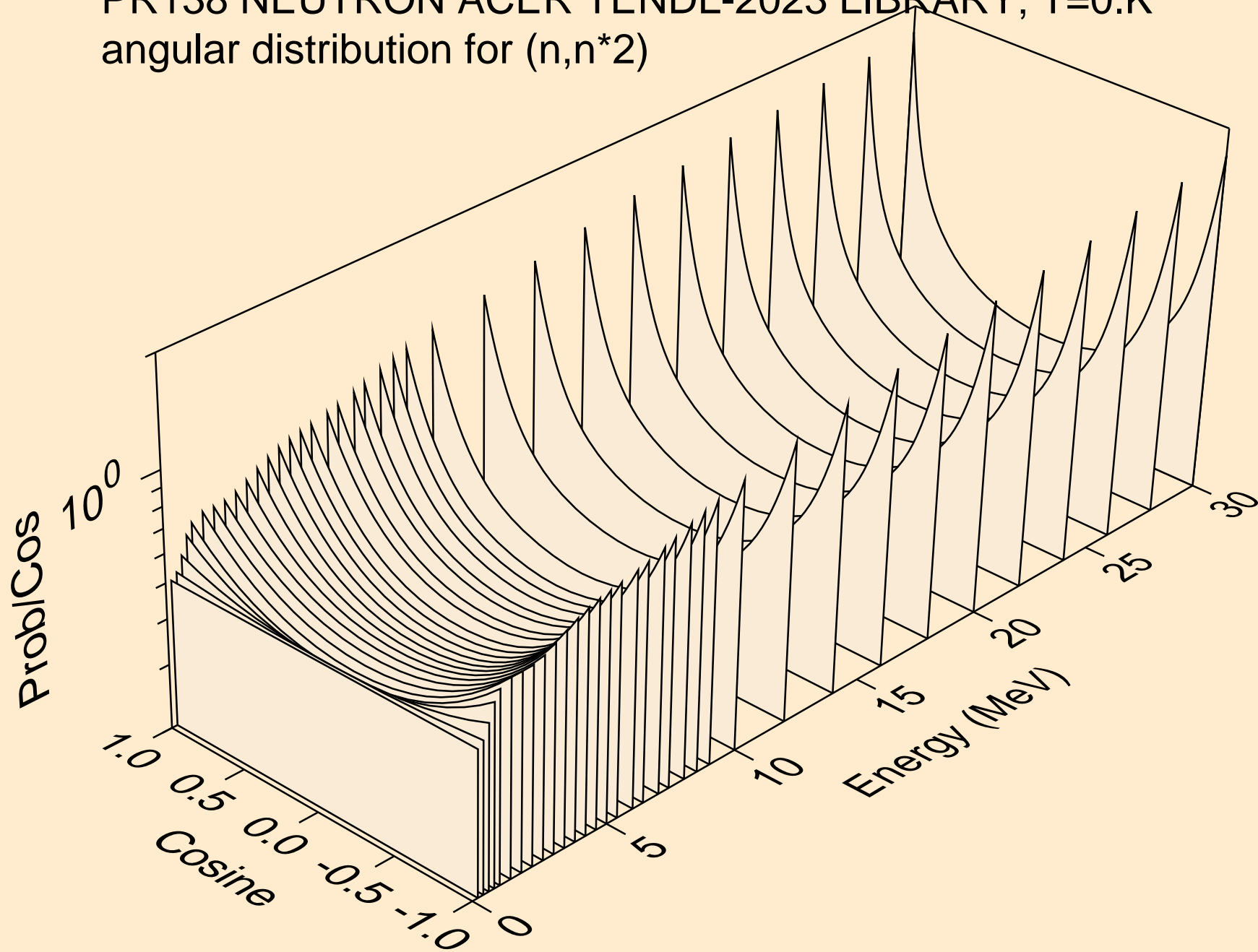
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angular distribution for elastic



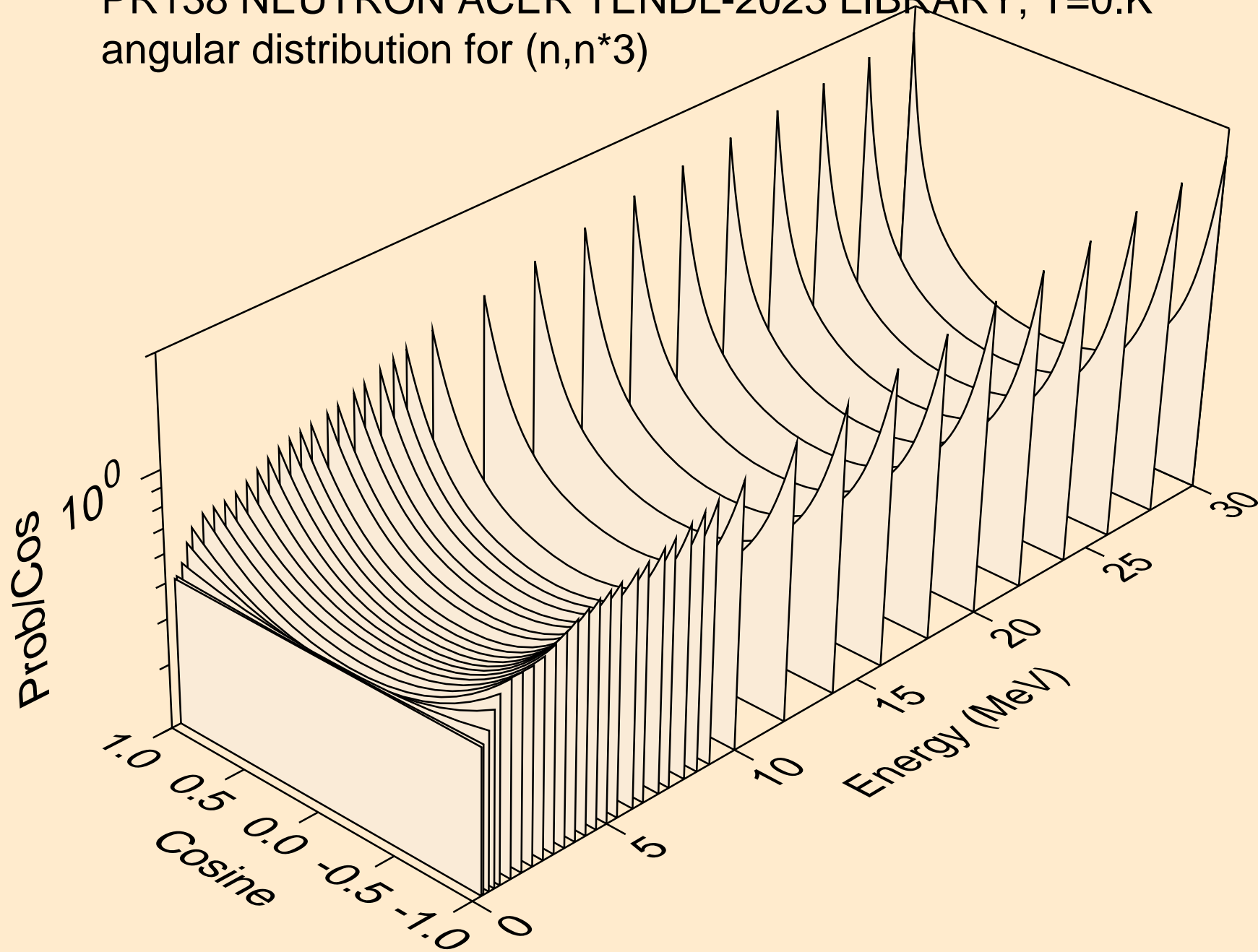
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



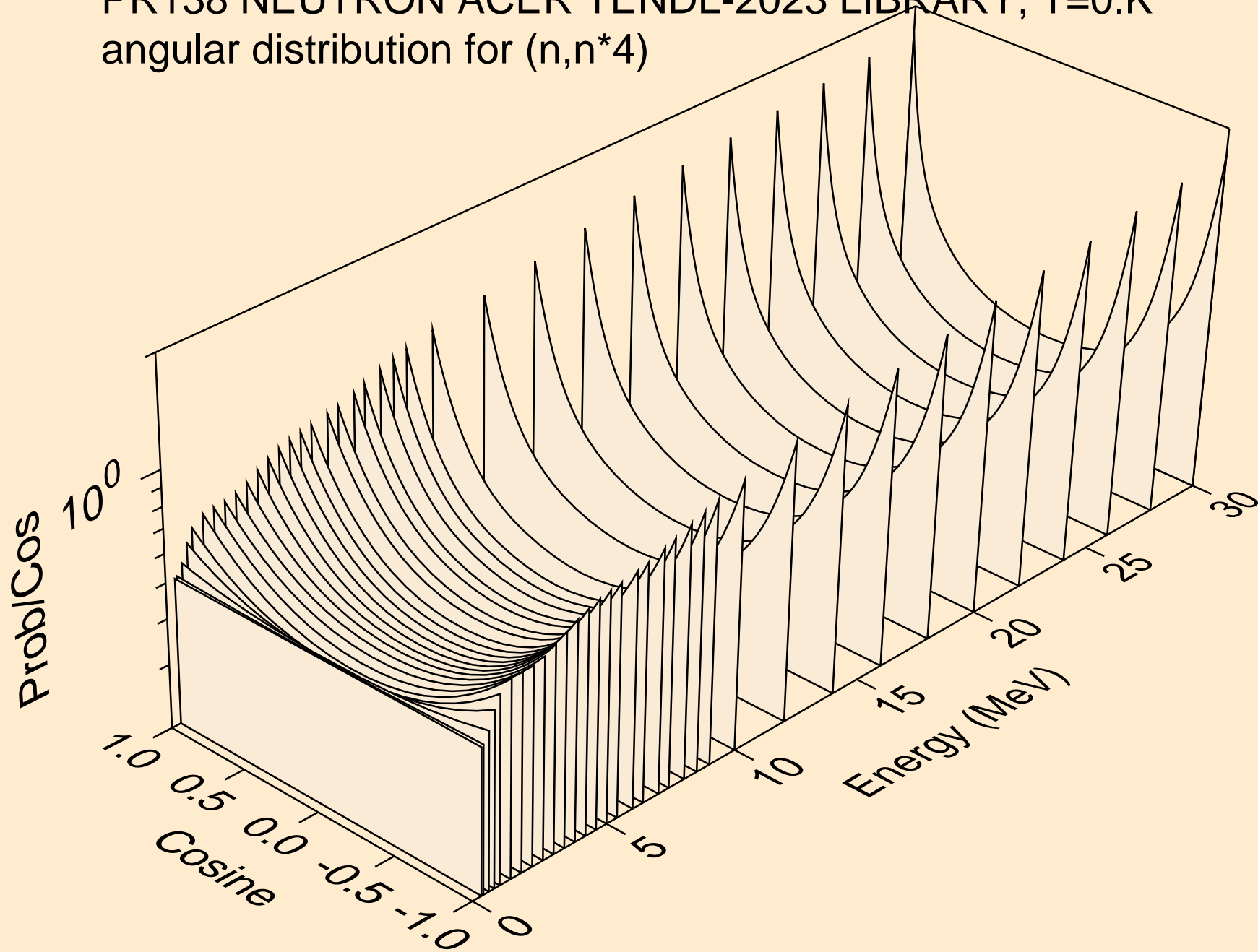
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angular distribution for (n,n\*2)



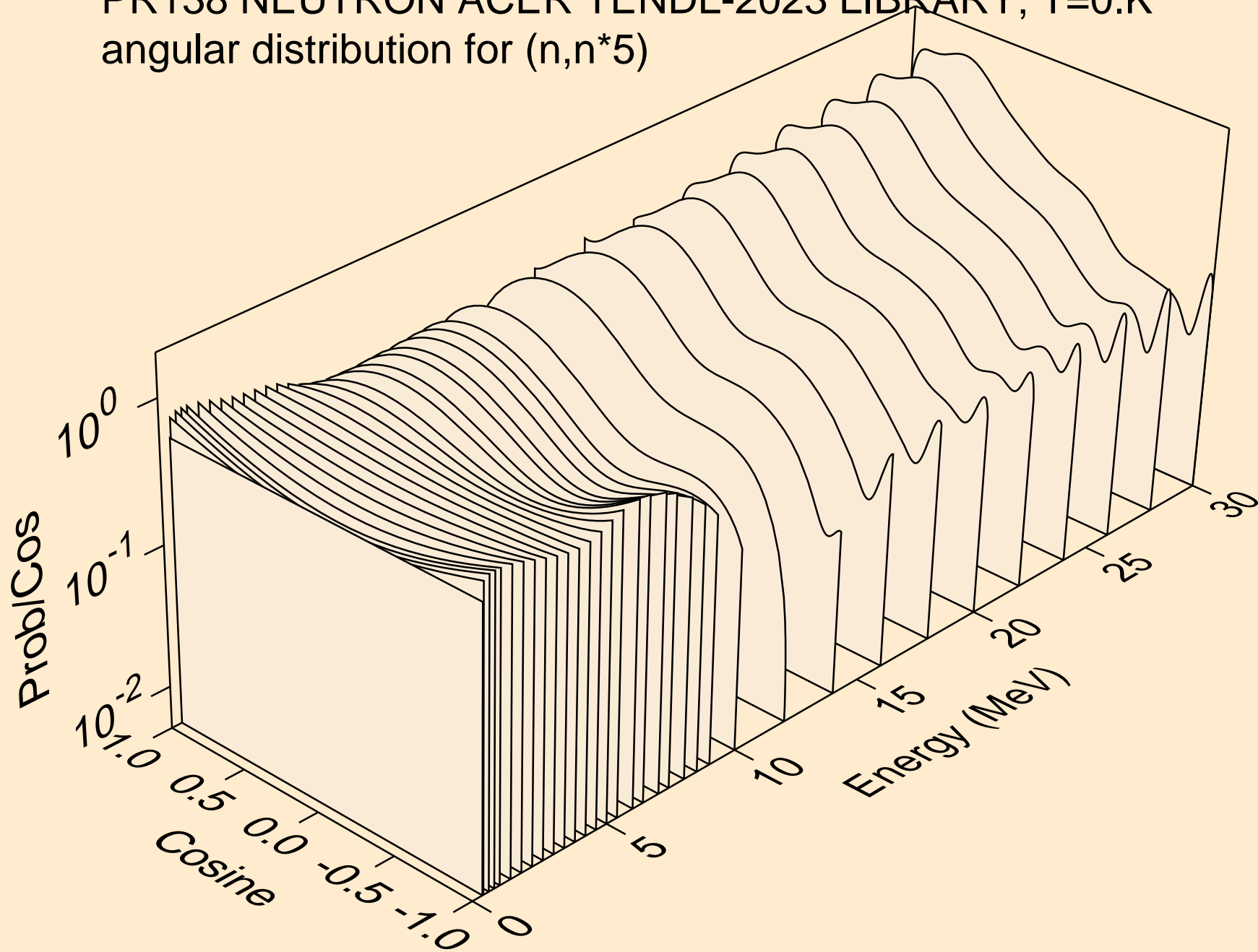
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angular distribution for (n,n\*3)



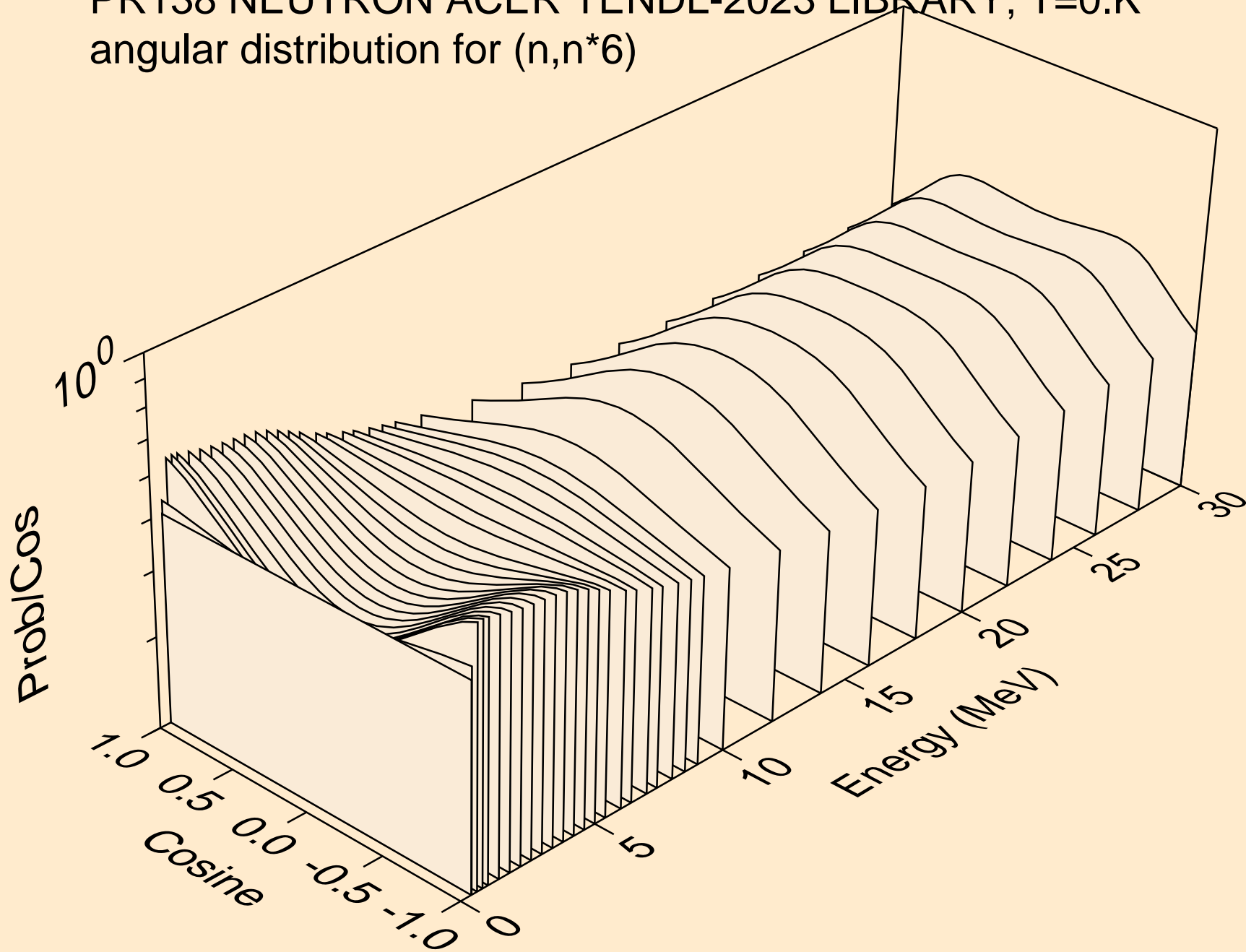
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



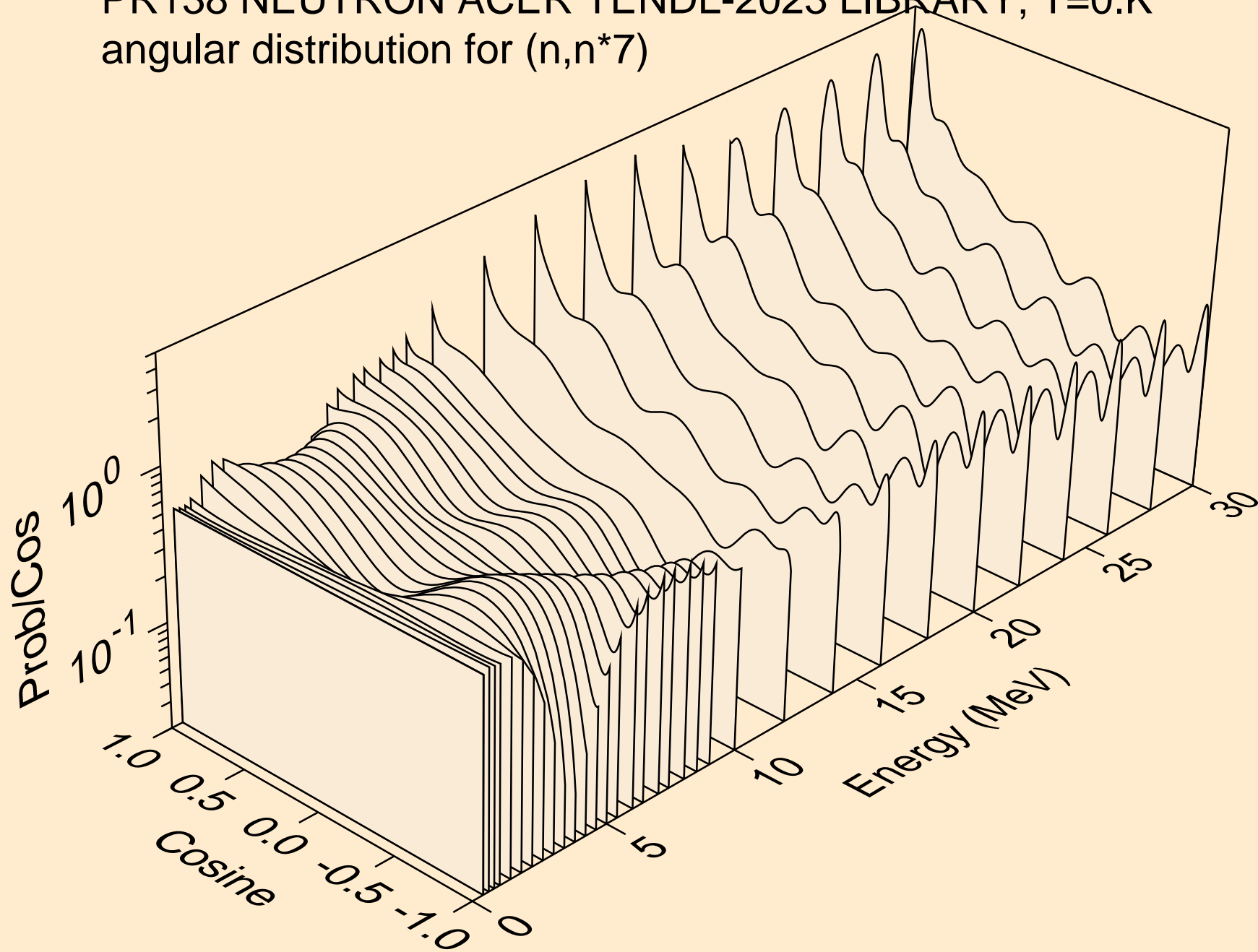
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angular distribution for (n,n\*5)



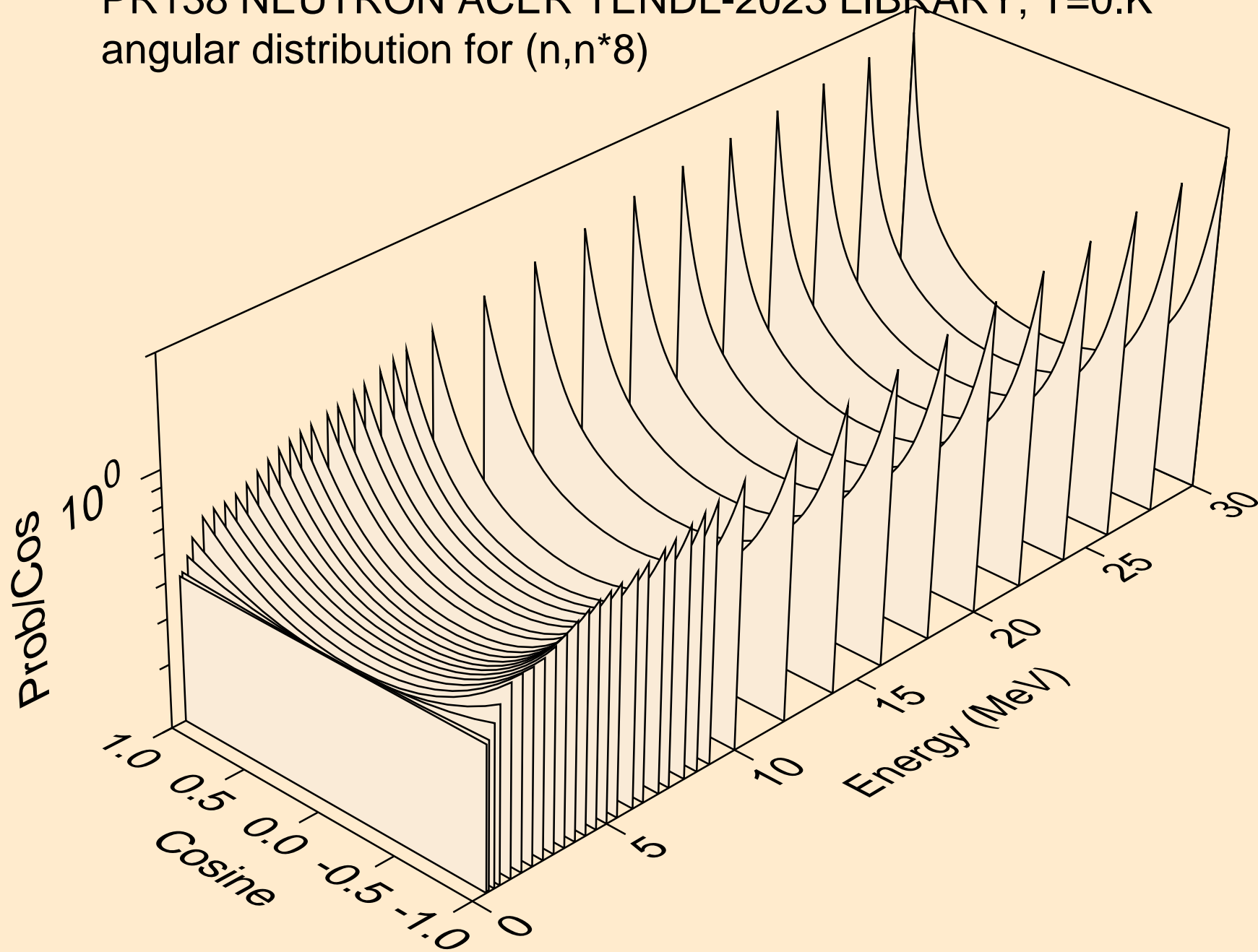
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angular distribution for (n,n\*6)



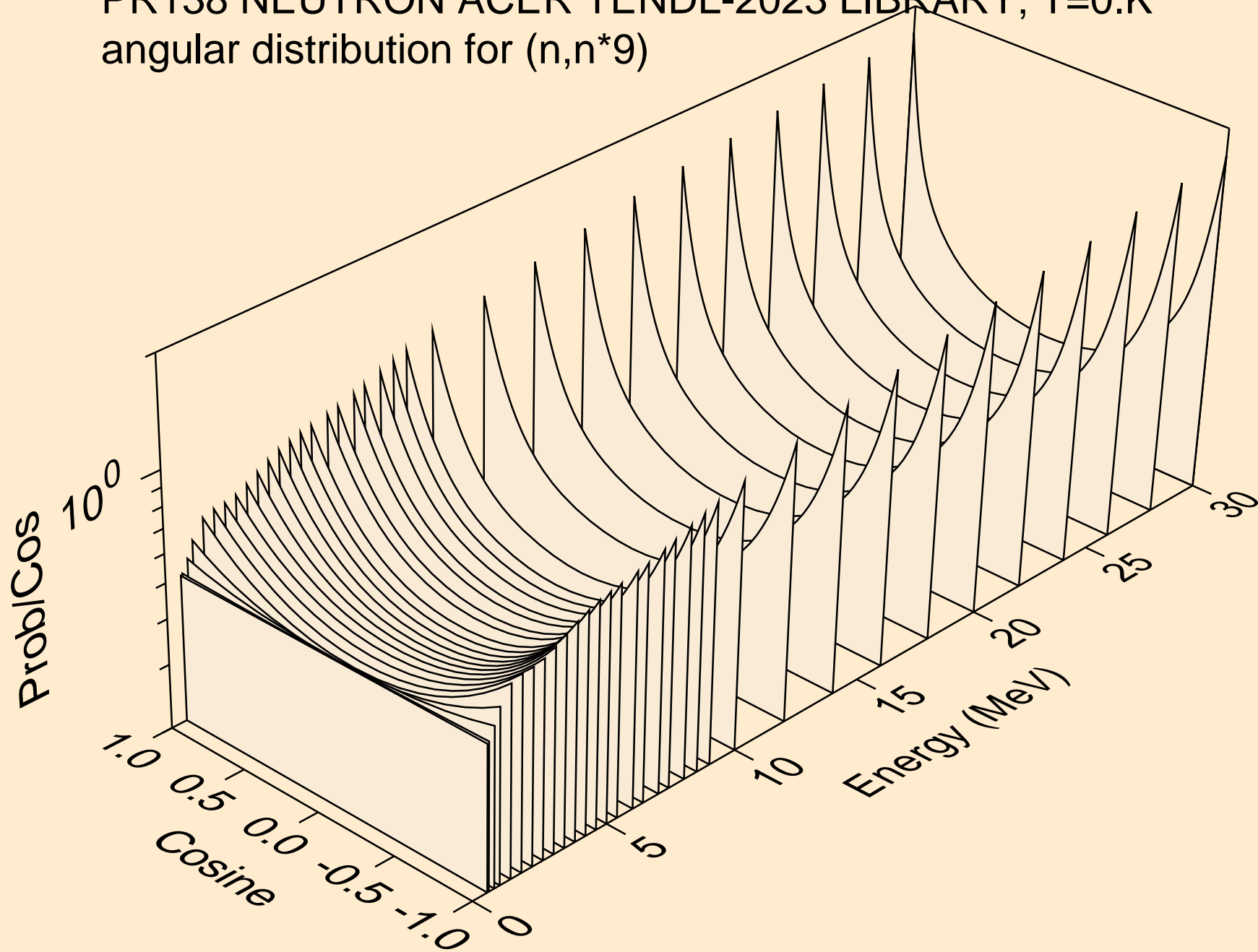
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angular distribution for (n,n\*7)



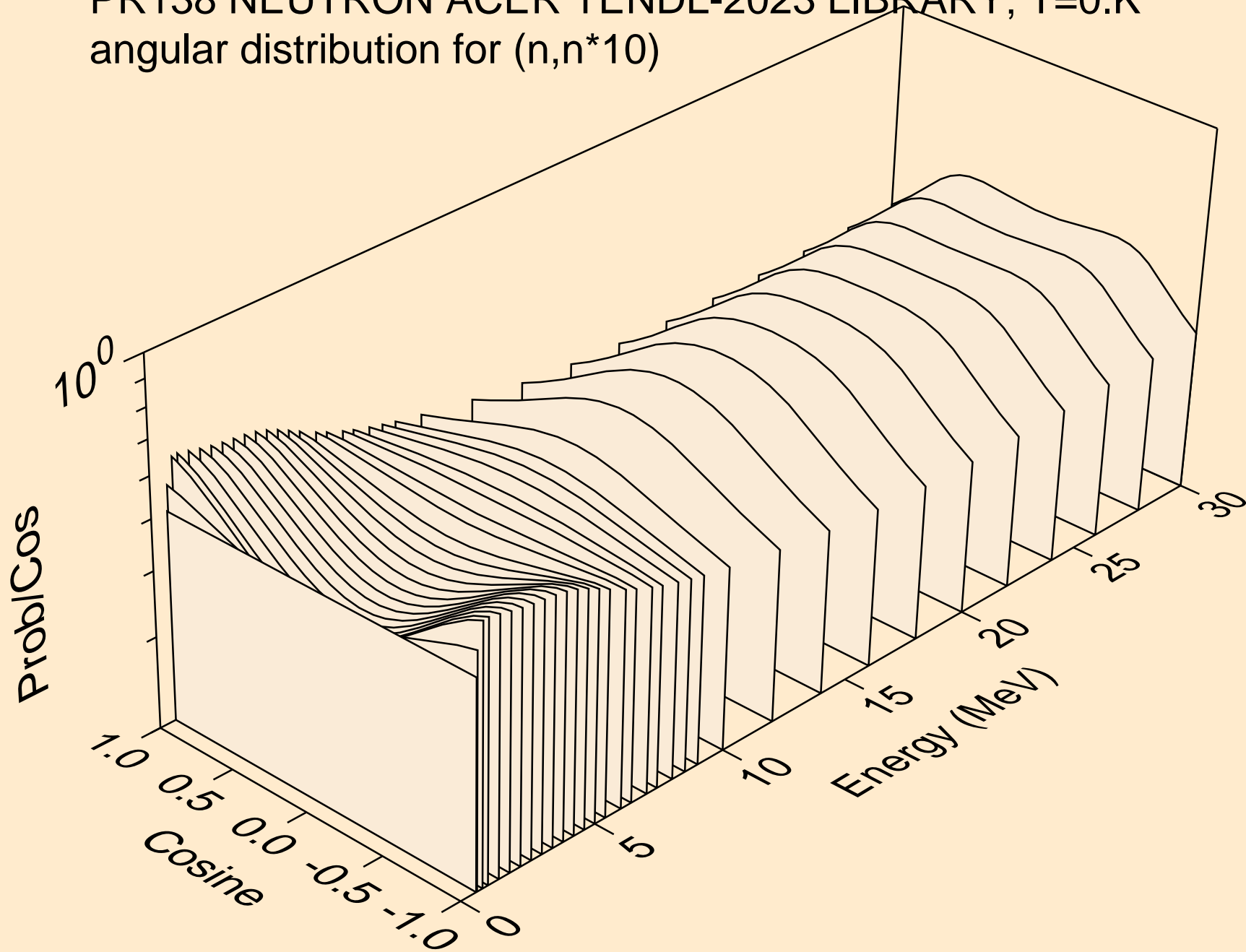
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angular distribution for (n,n\*8)



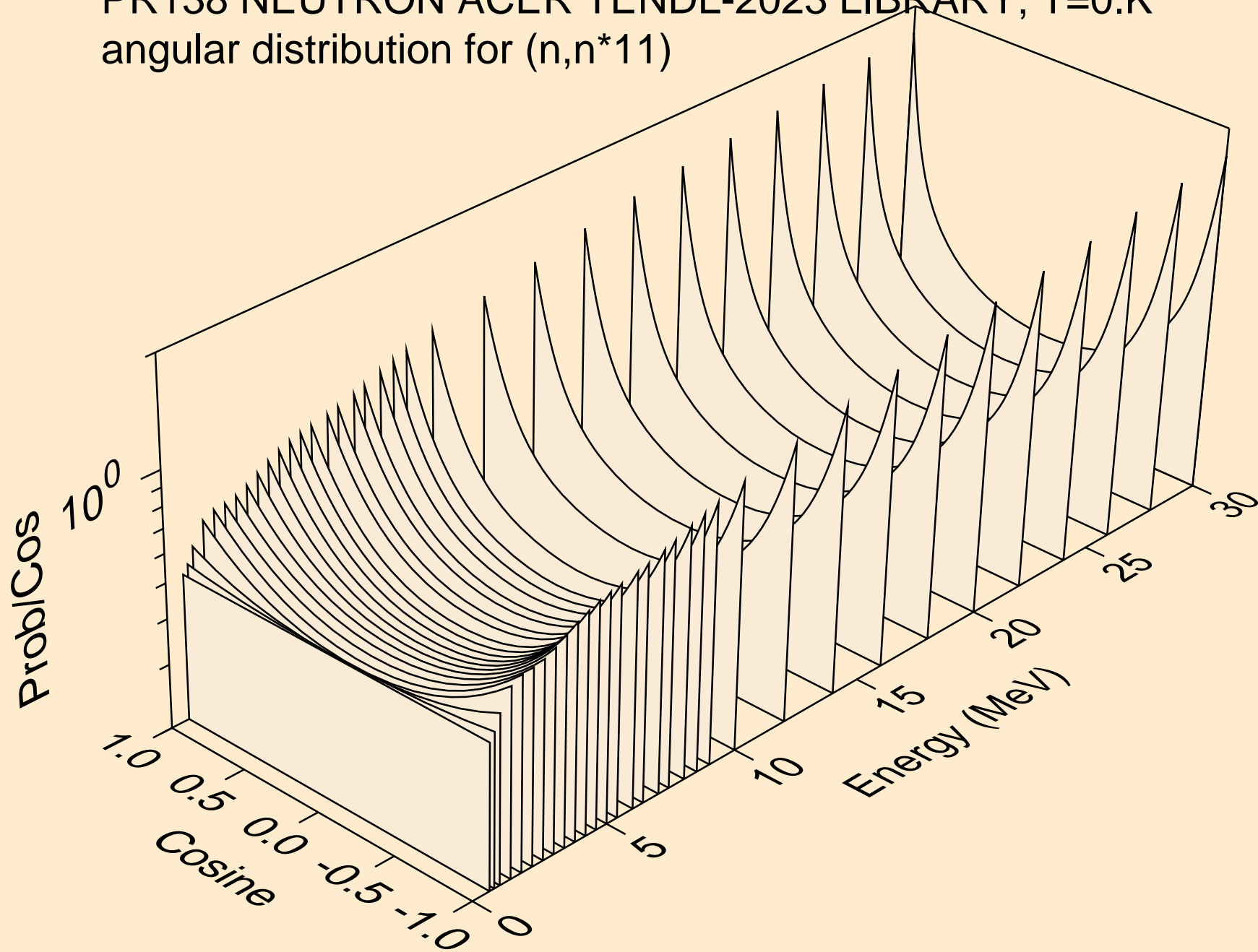
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angular distribution for (n,n\*9)



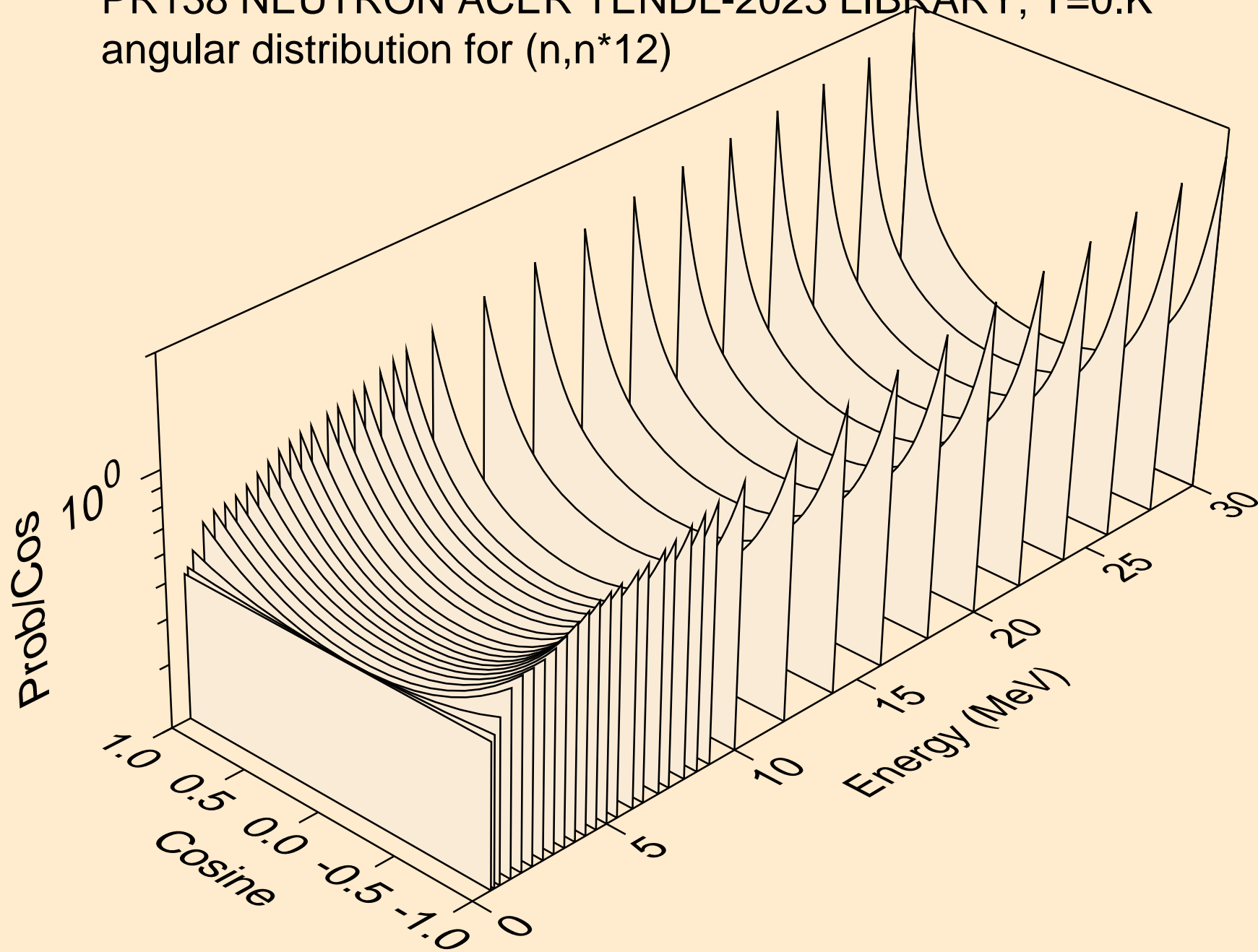
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angular distribution for (n,n\*10)



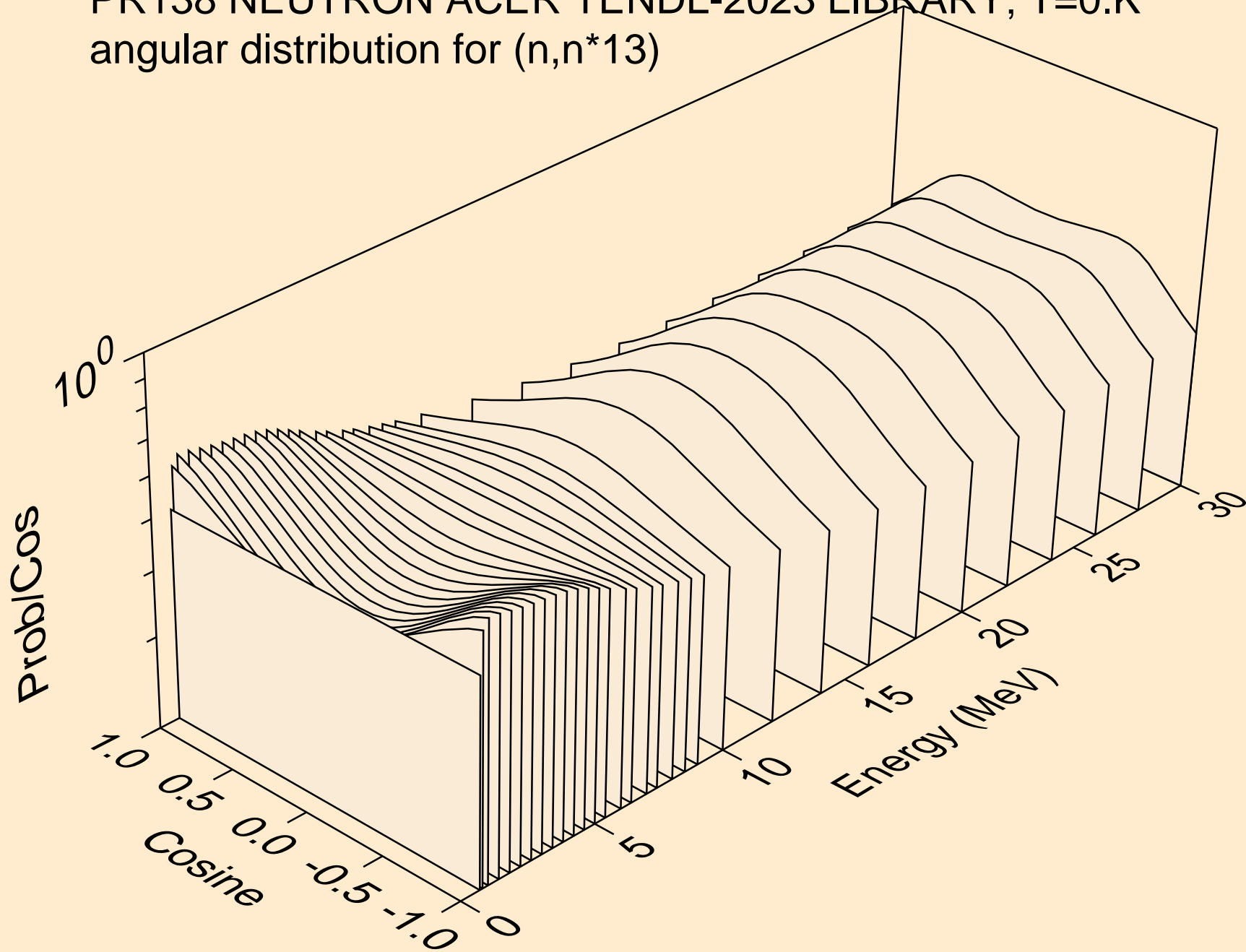
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



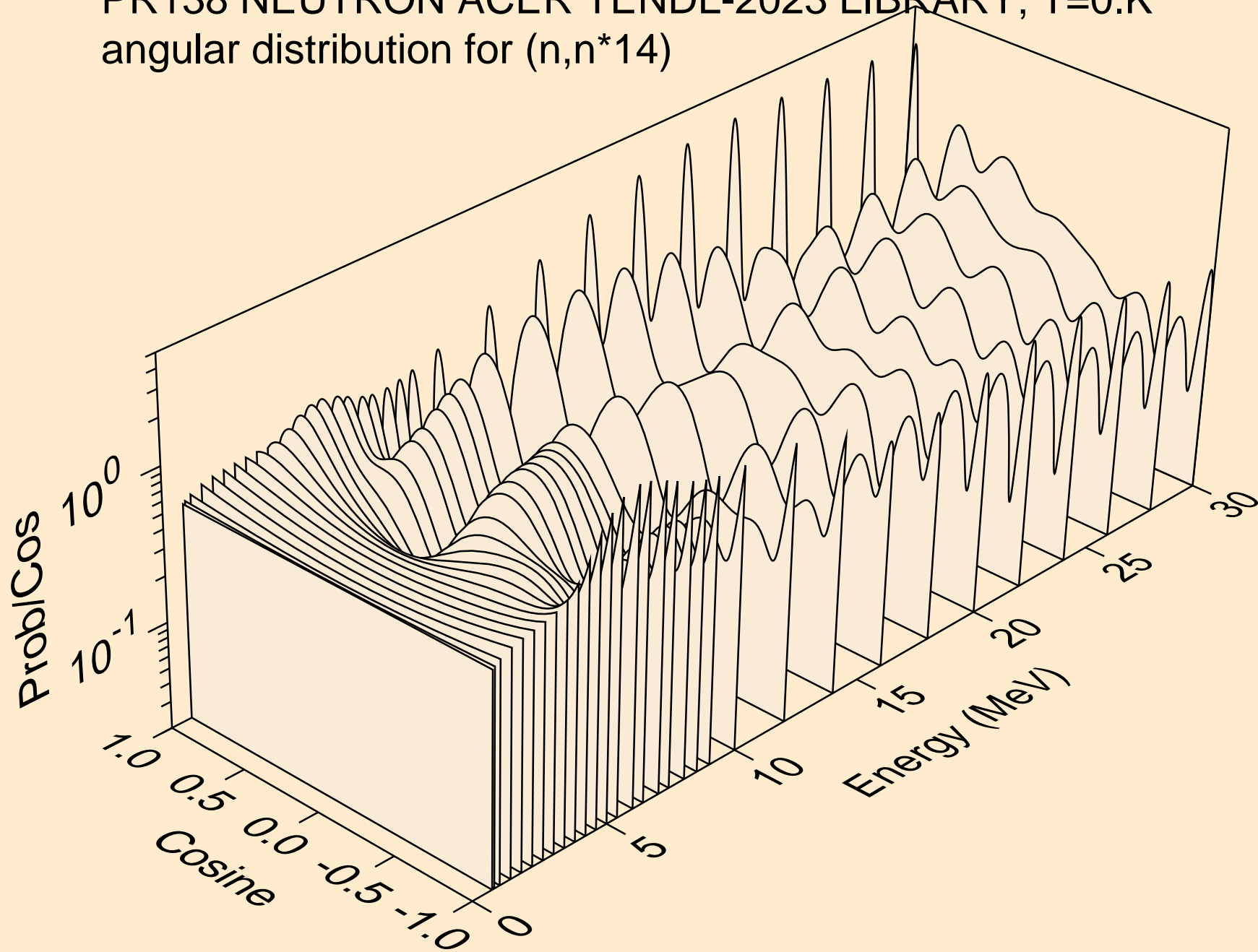
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angular distribution for (n,n\*12)



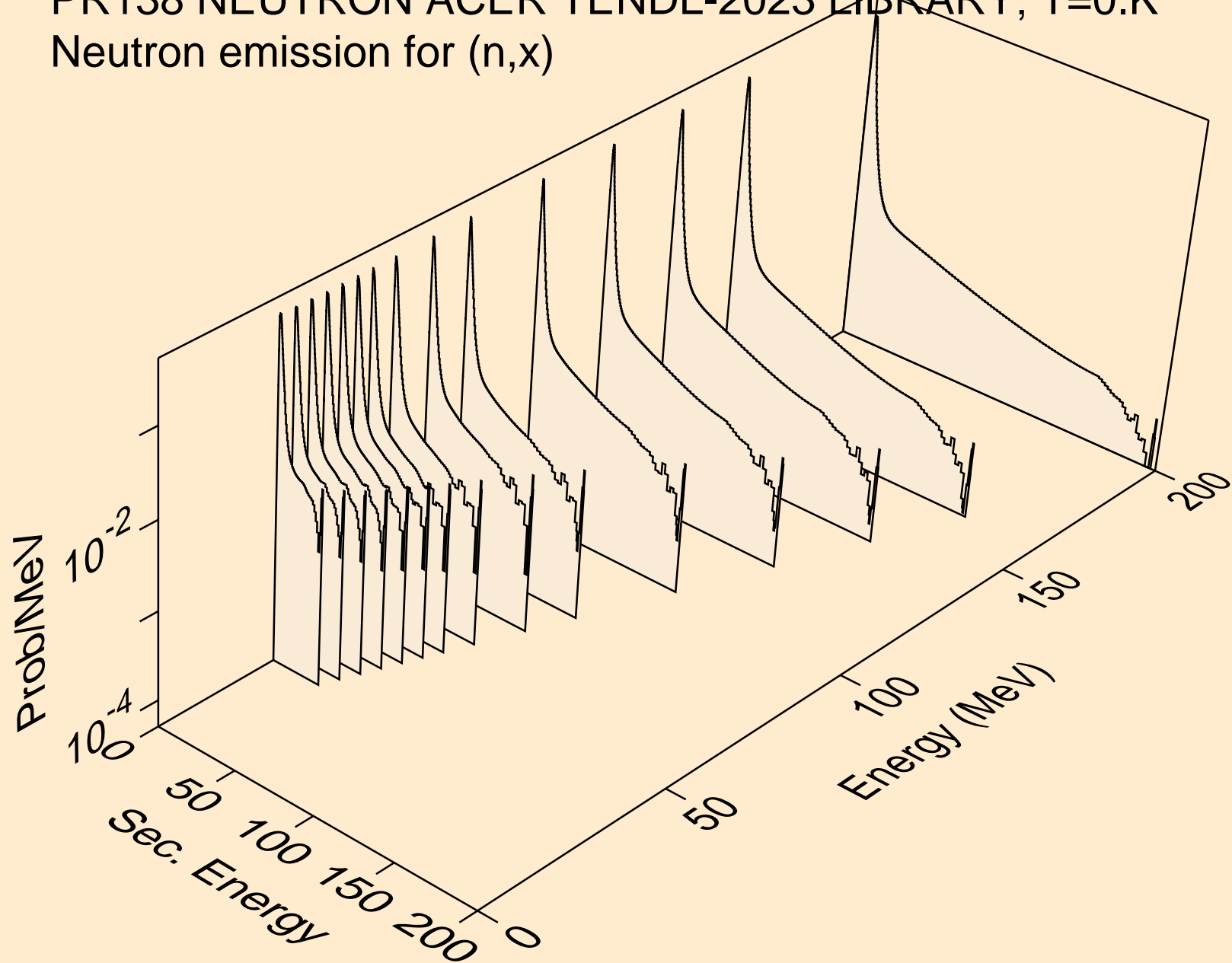
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angular distribution for (n,n\*13)



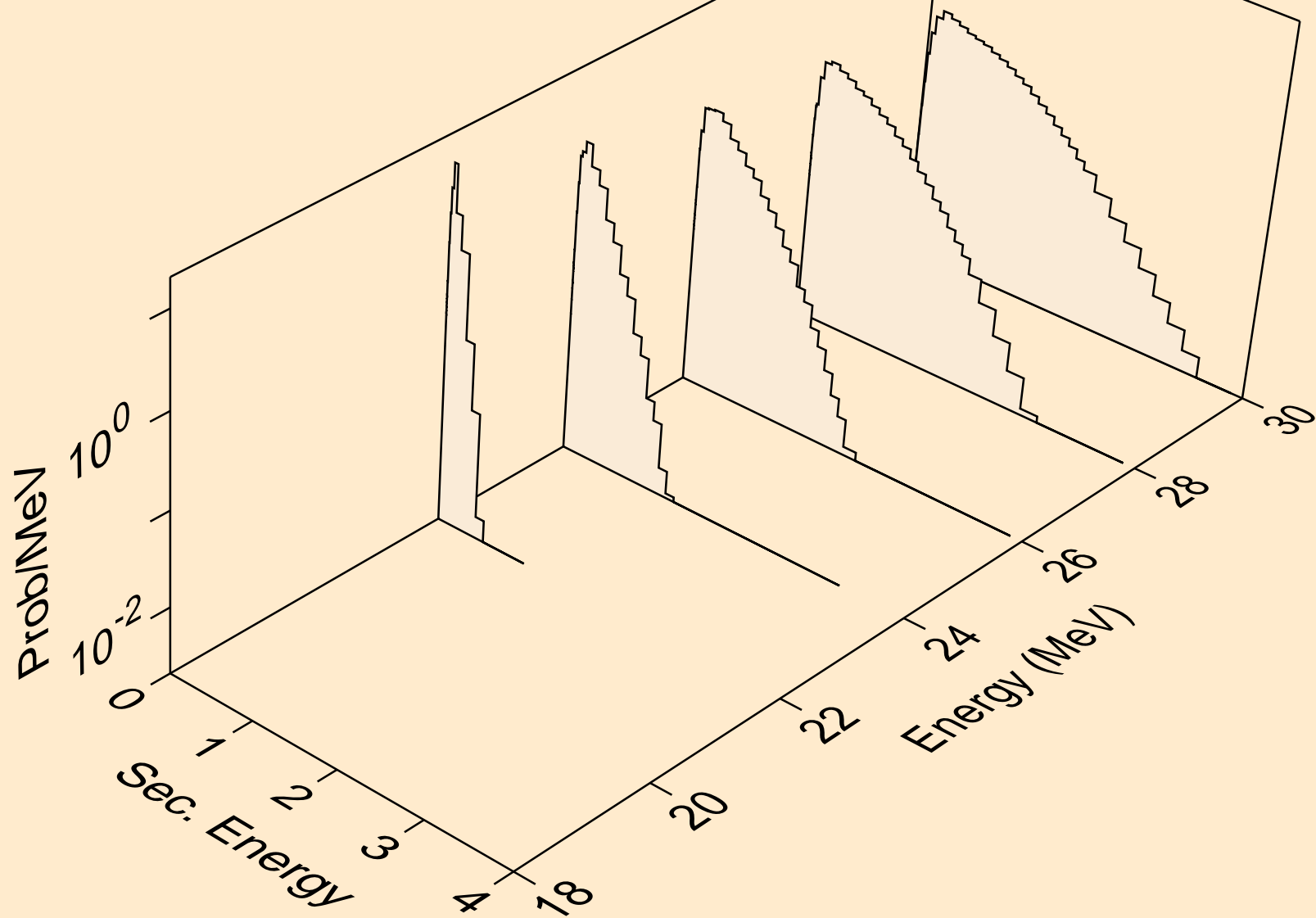
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angular distribution for (n,n\*14)



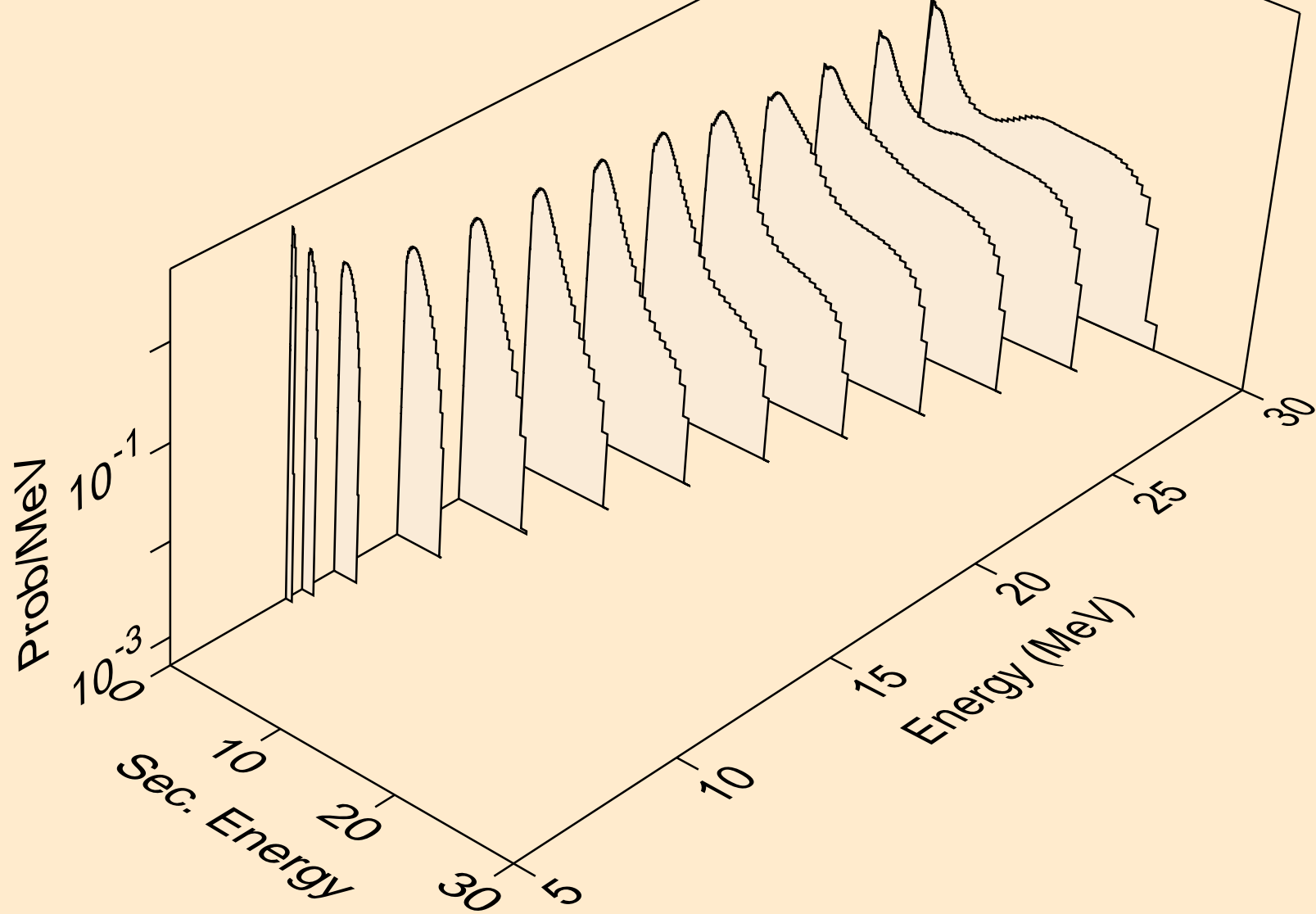
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



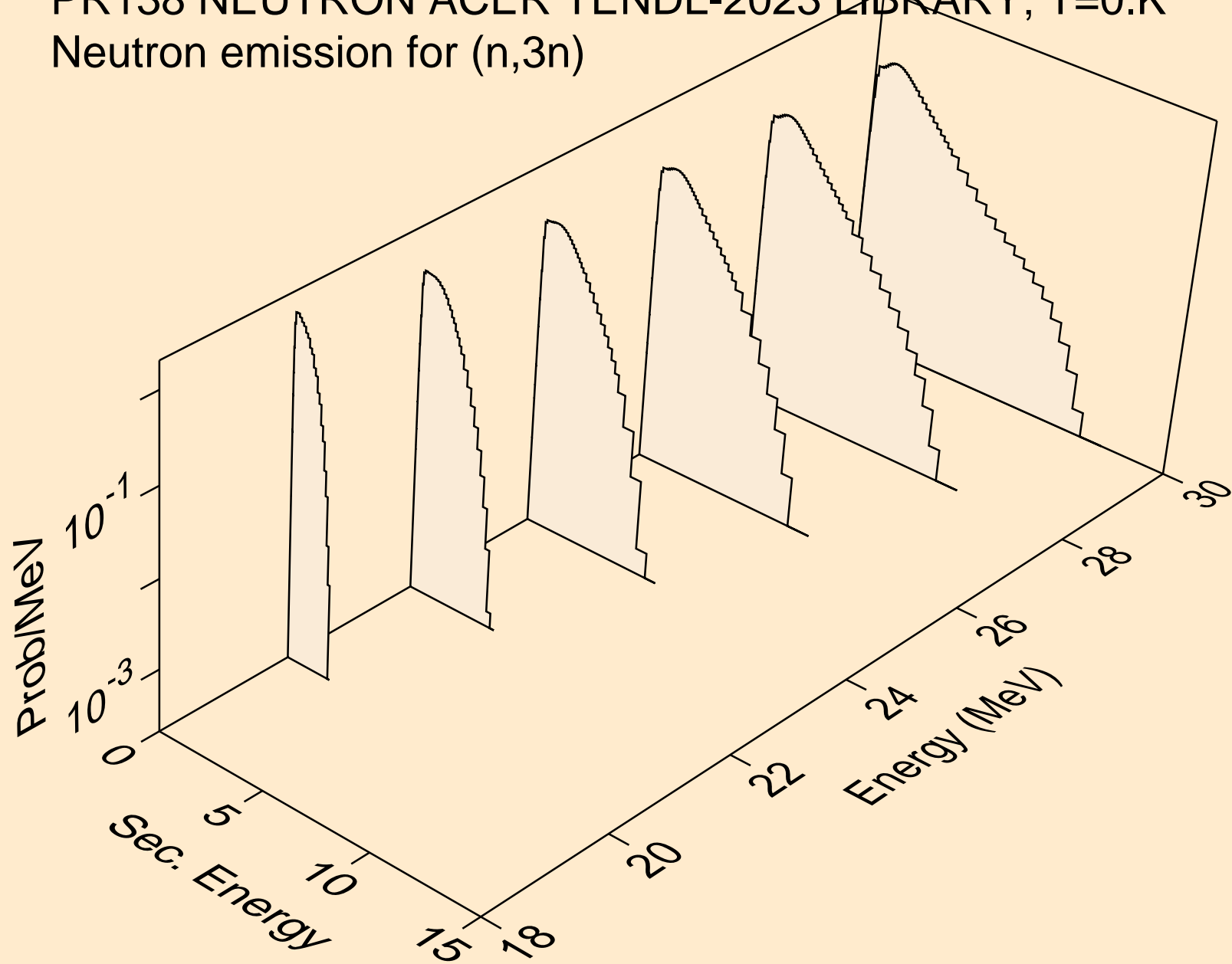
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



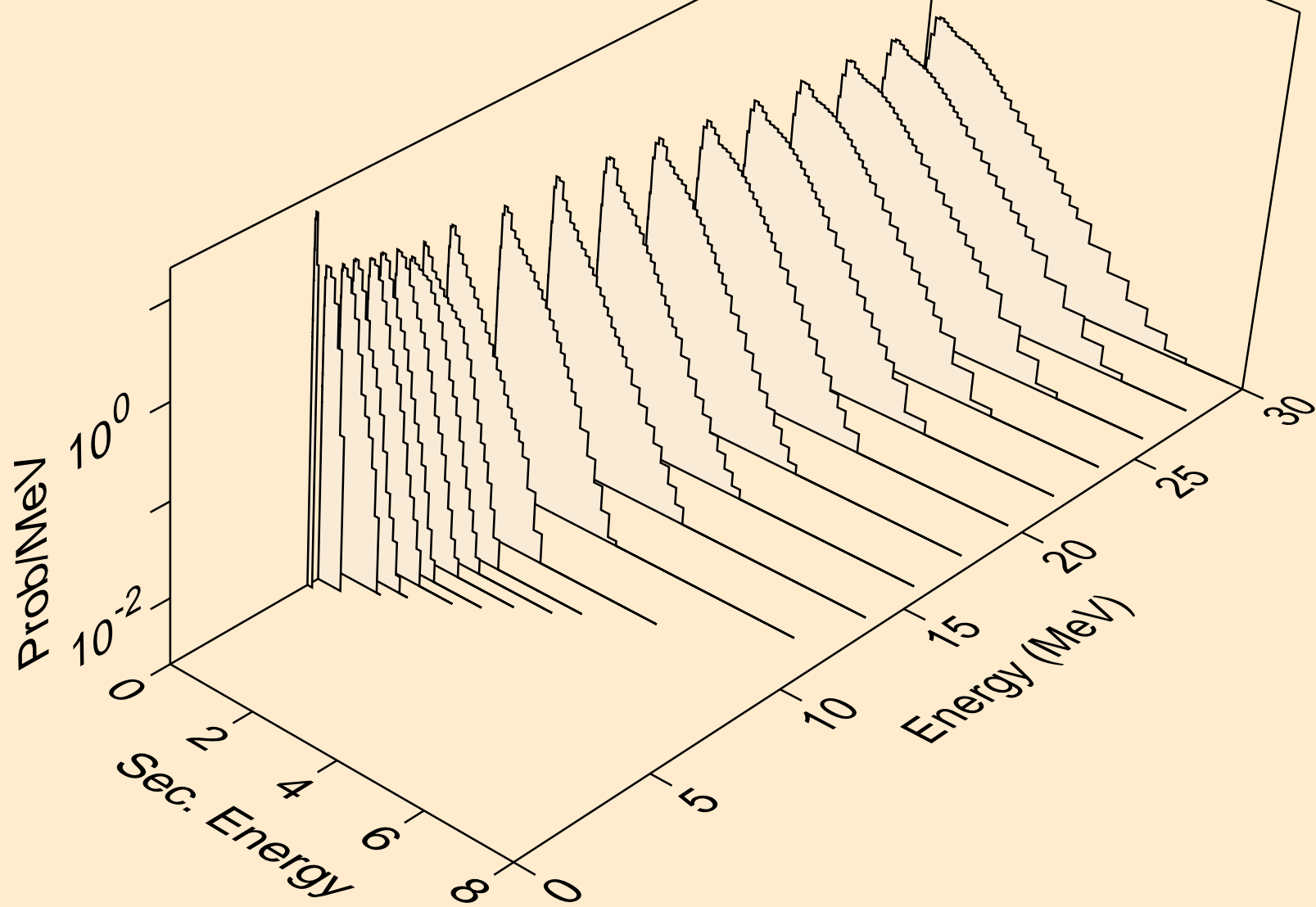
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Neutron emission for (n,2n)



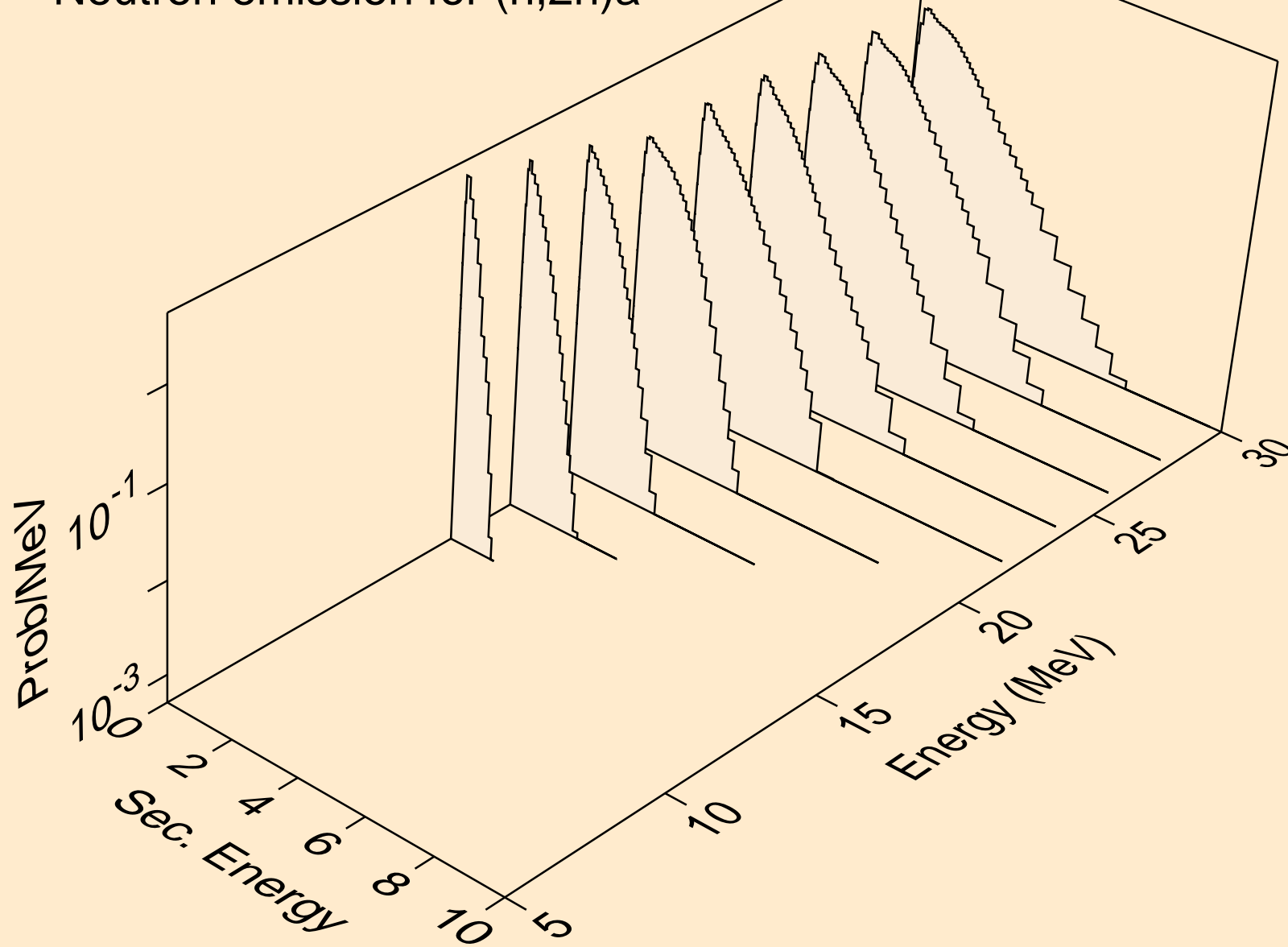
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Neutron emission for (n,3n)



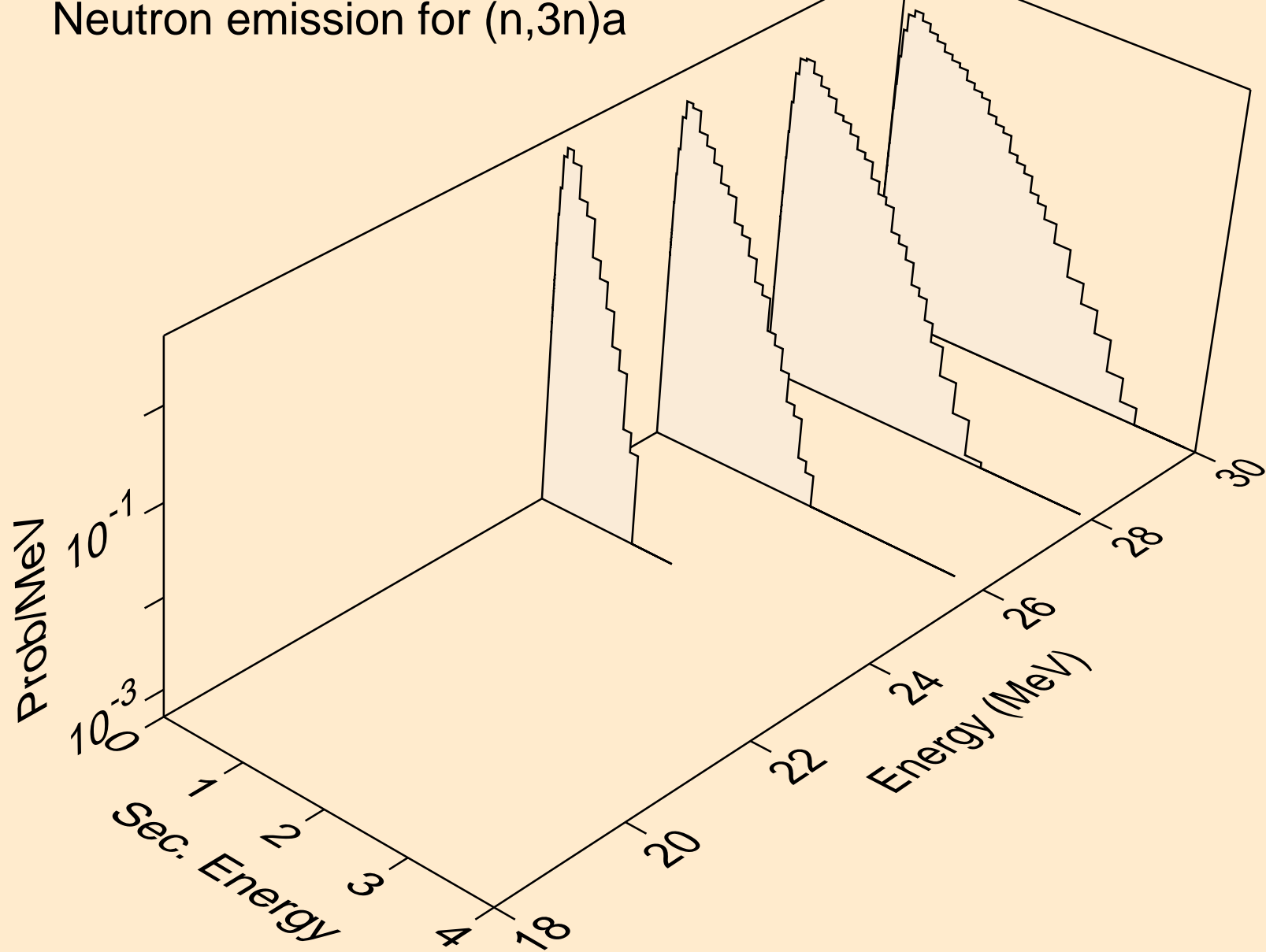
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Neutron emission for (n,n\*)a



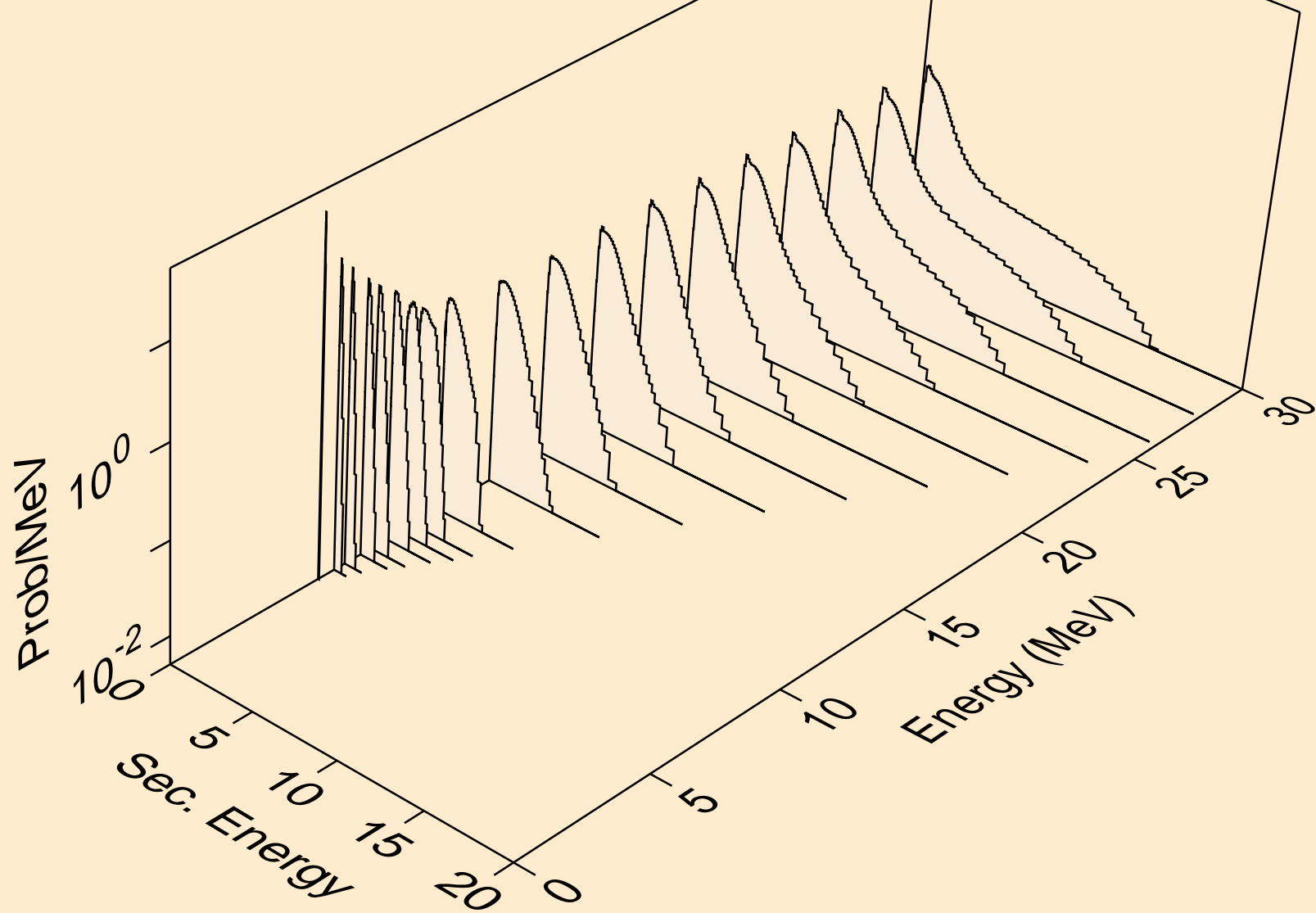
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Neutron emission for (n,2n)a



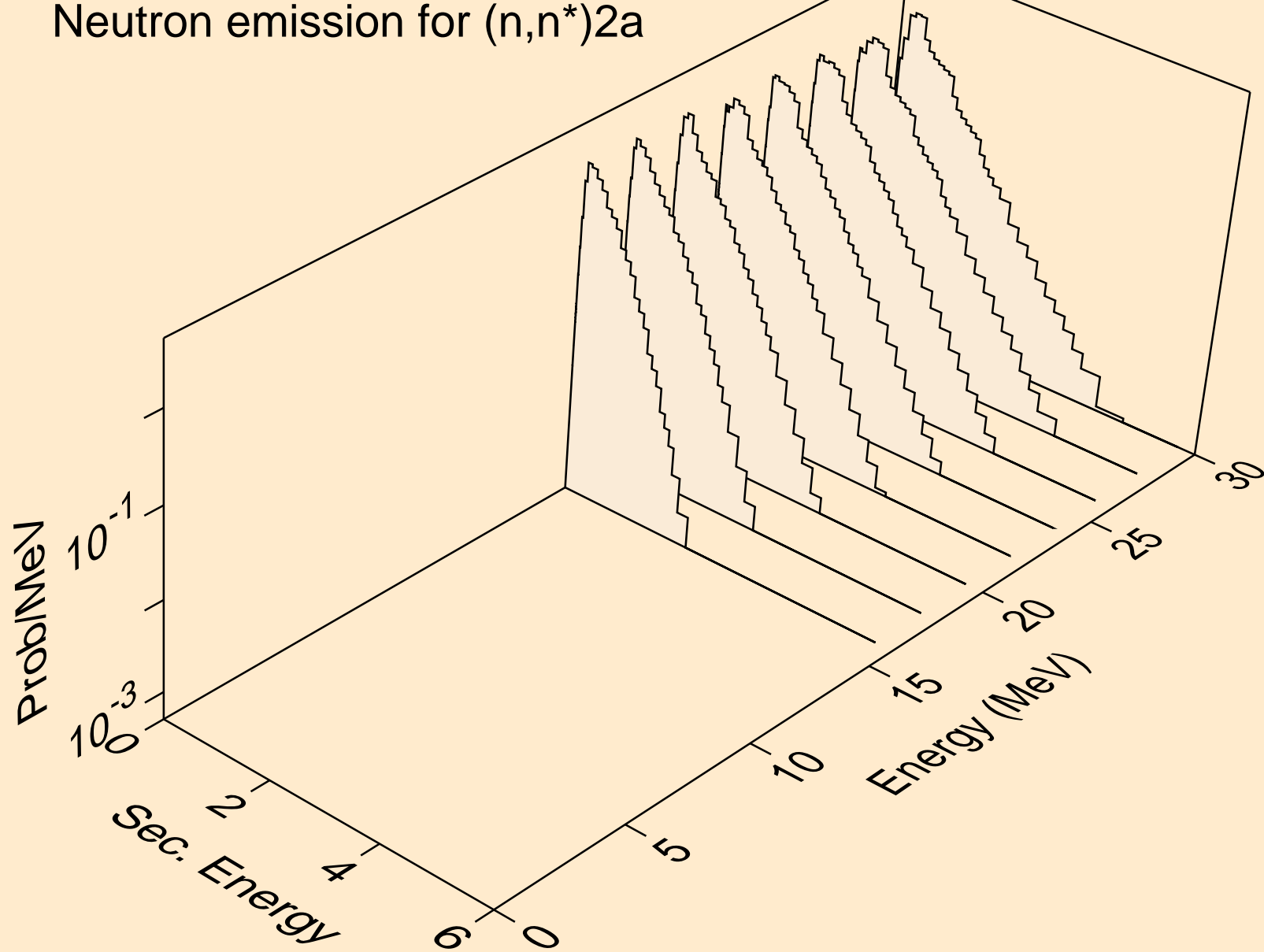
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Neutron emission for (n,3n)a



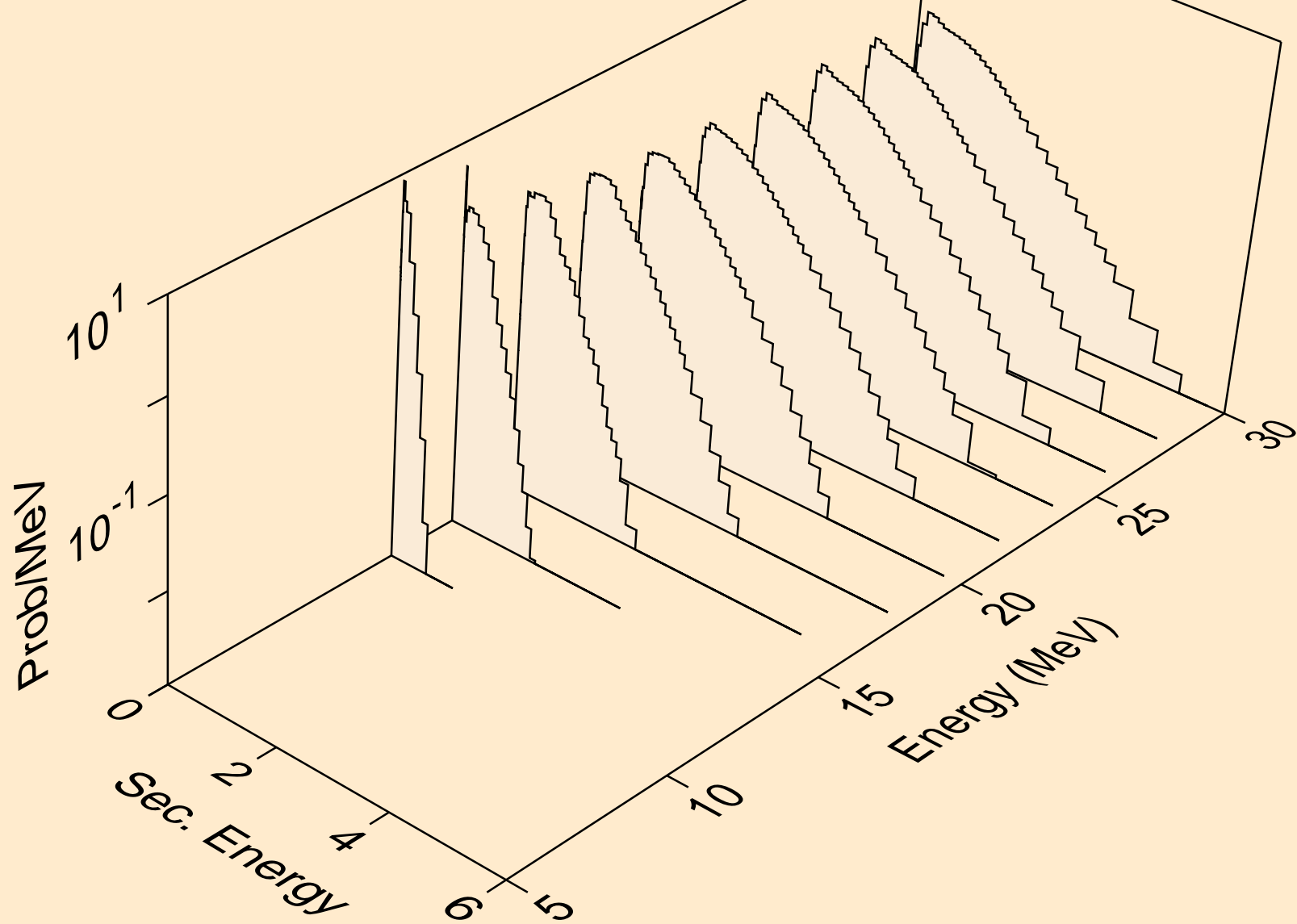
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Neutron emission for (n,n\*)p



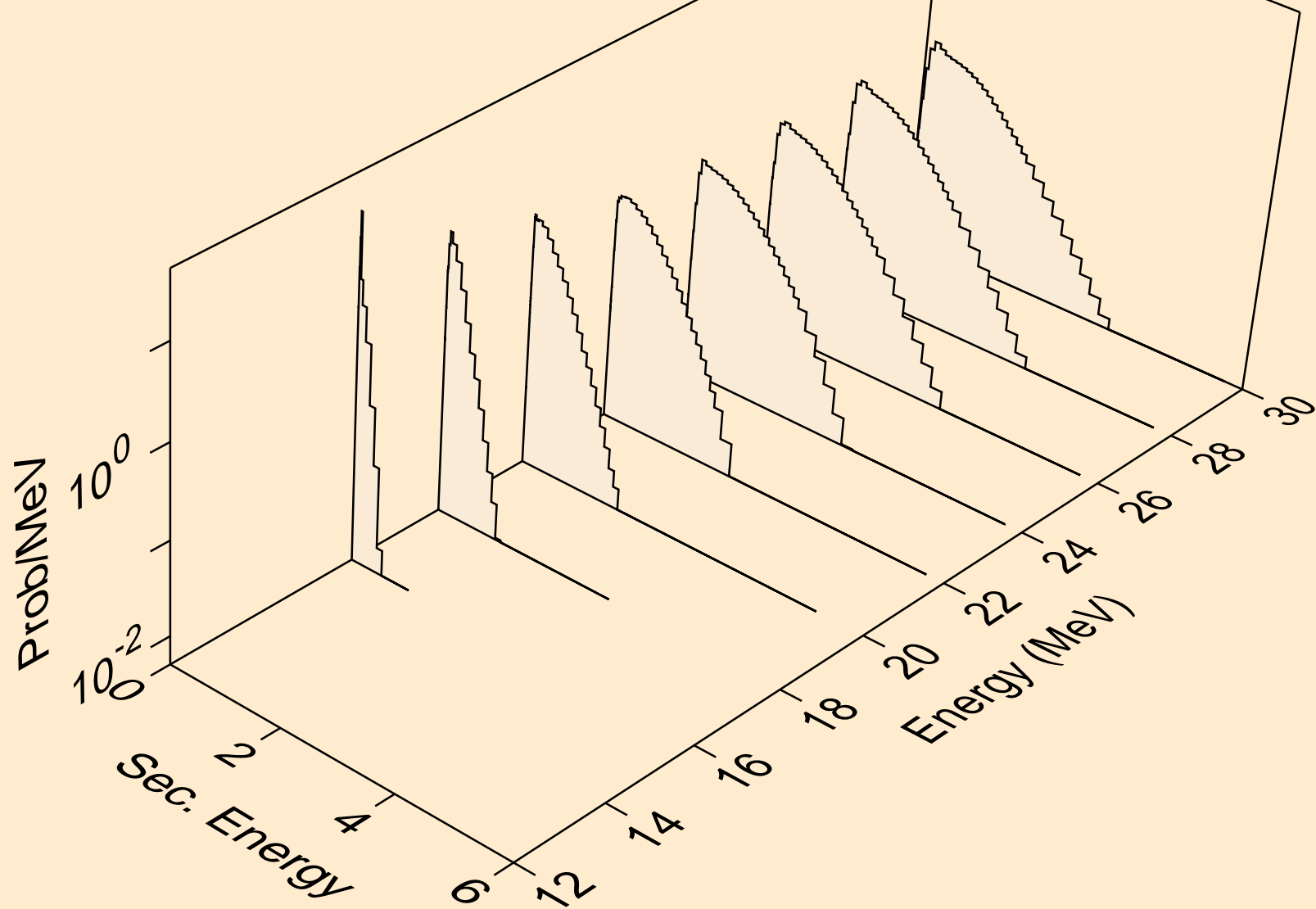
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Neutron emission for (n,n\*)2a



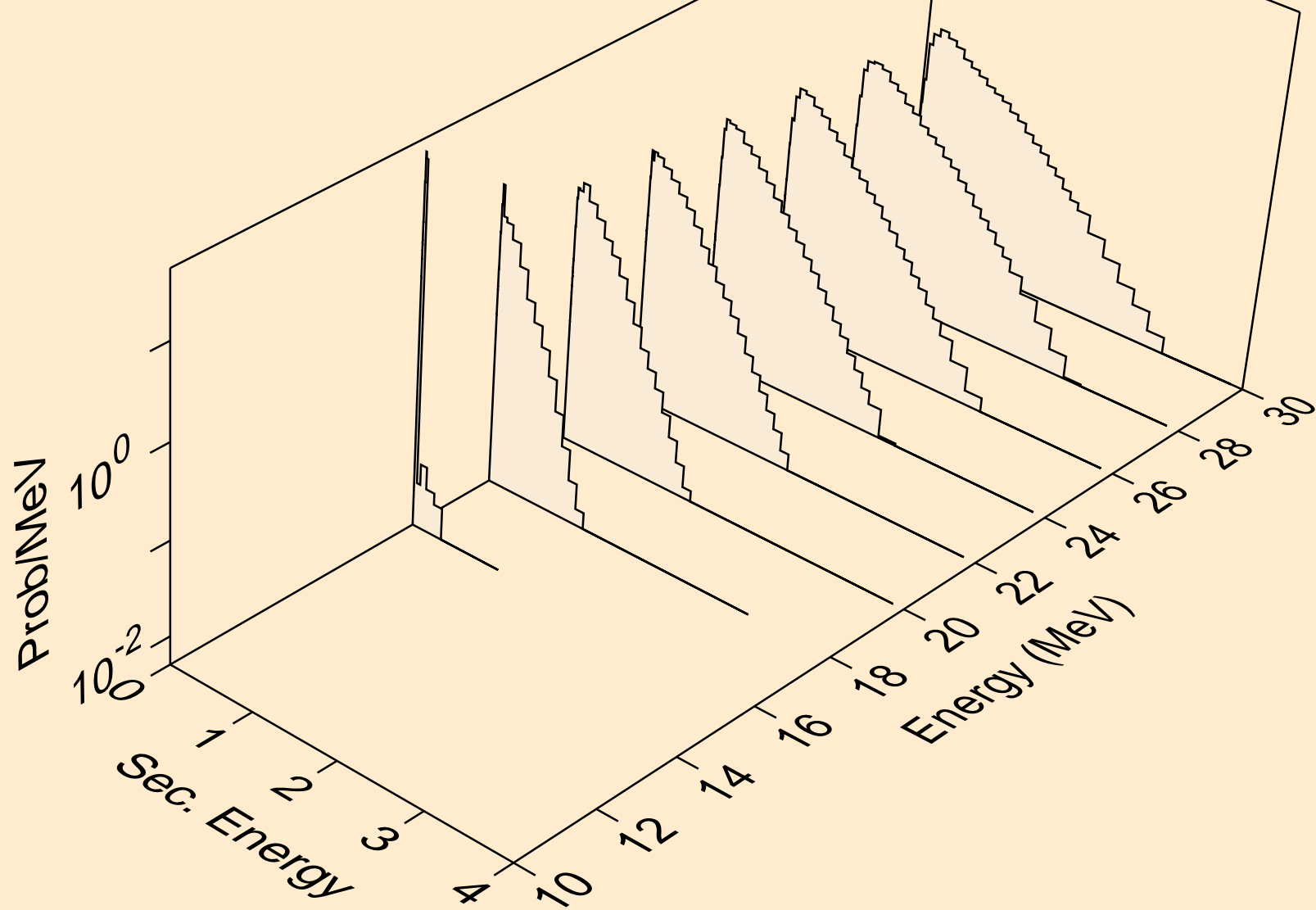
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Neutron emission for (n,n\*)d



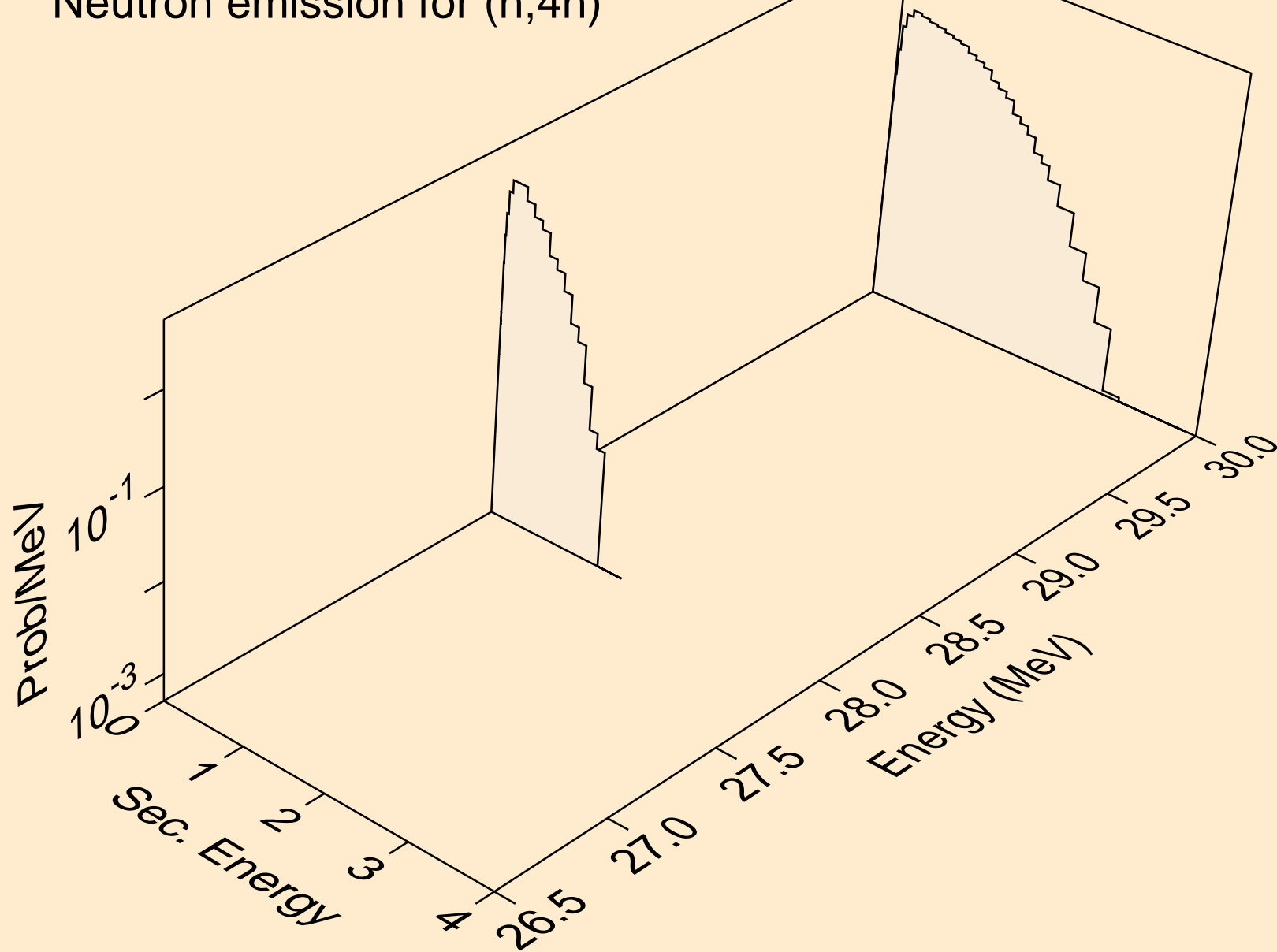
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Neutron emission for (n,n\*)t



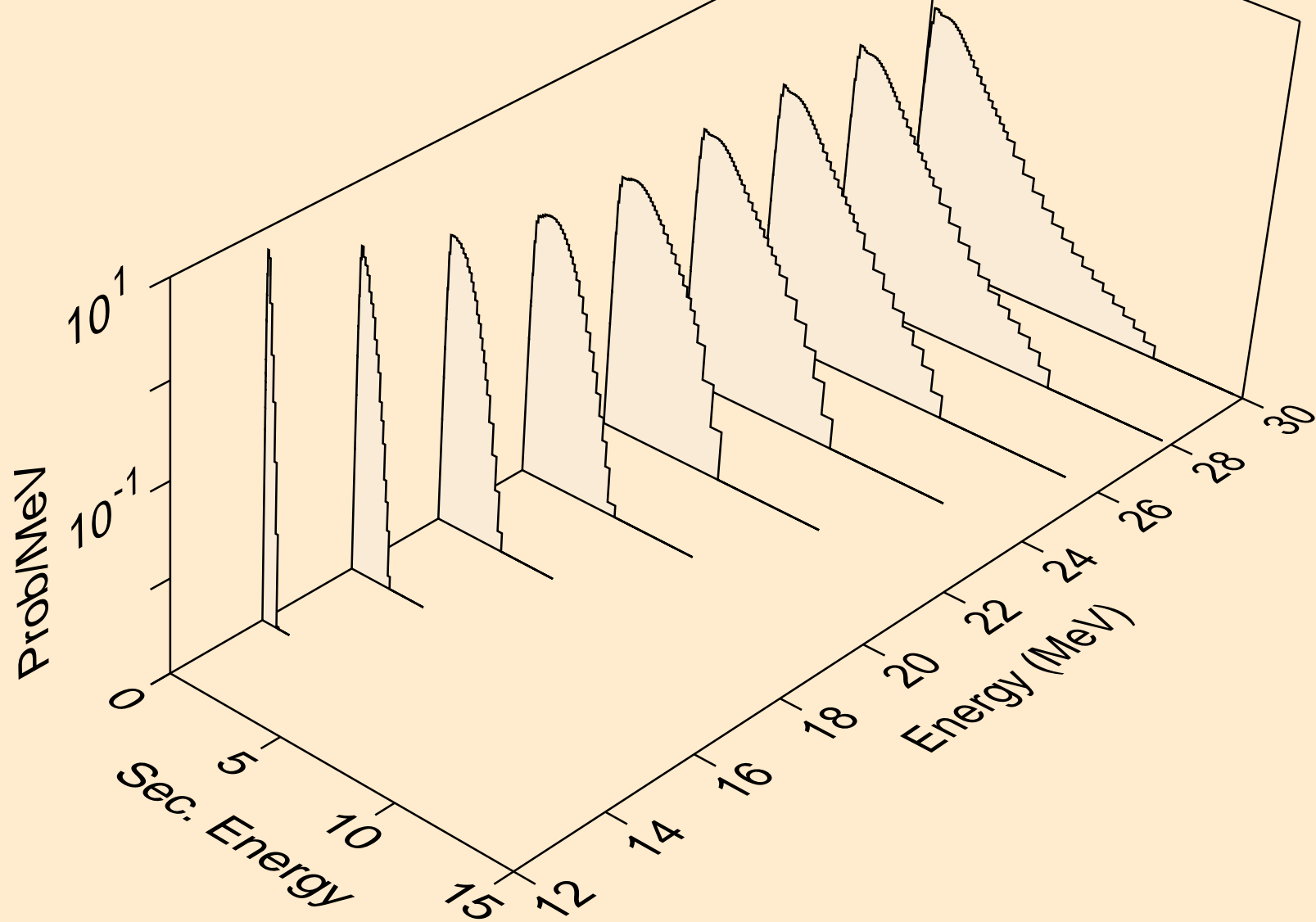
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Neutron emission for (n,n\*)he3



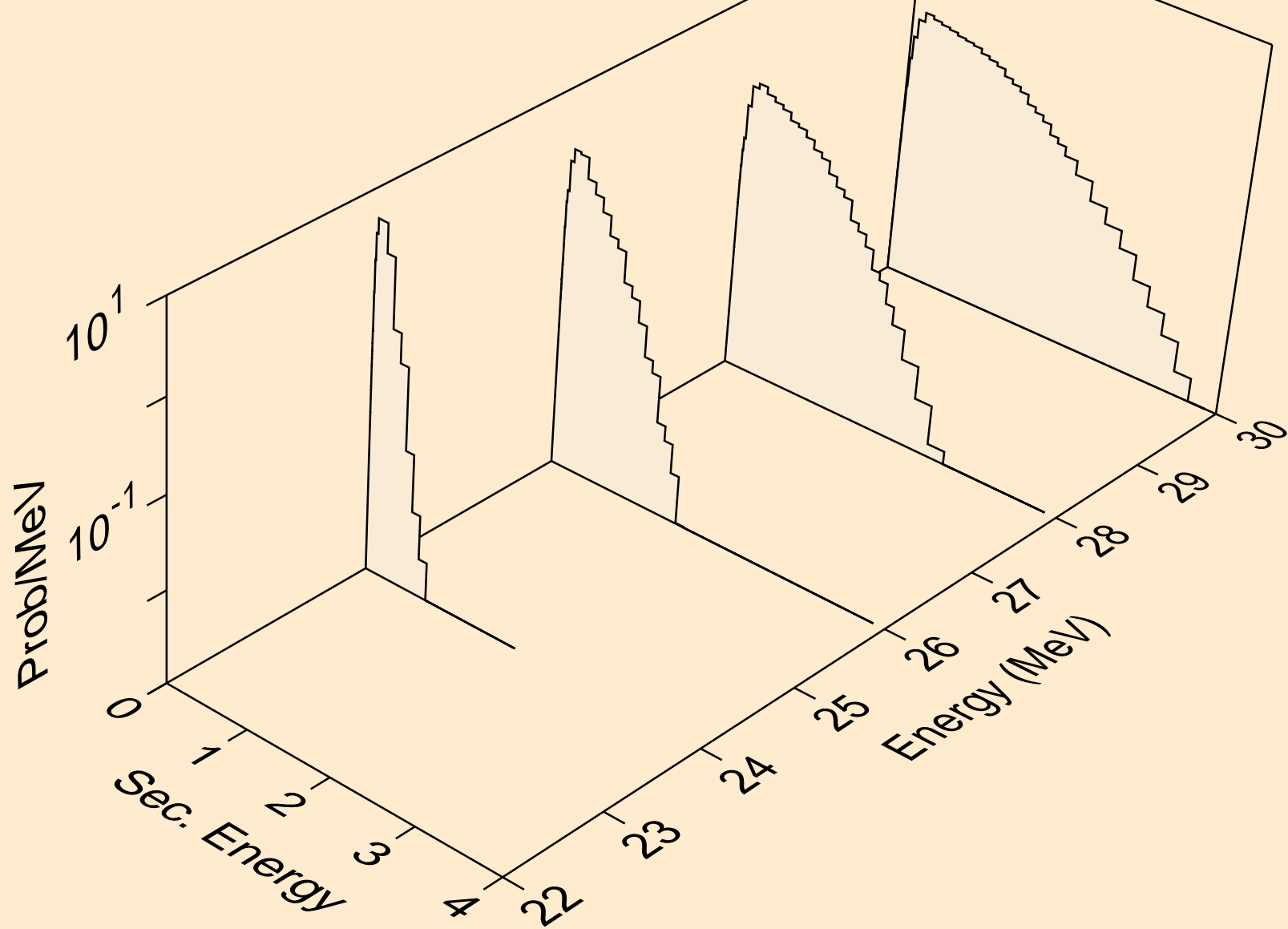
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Neutron emission for (n,4n)



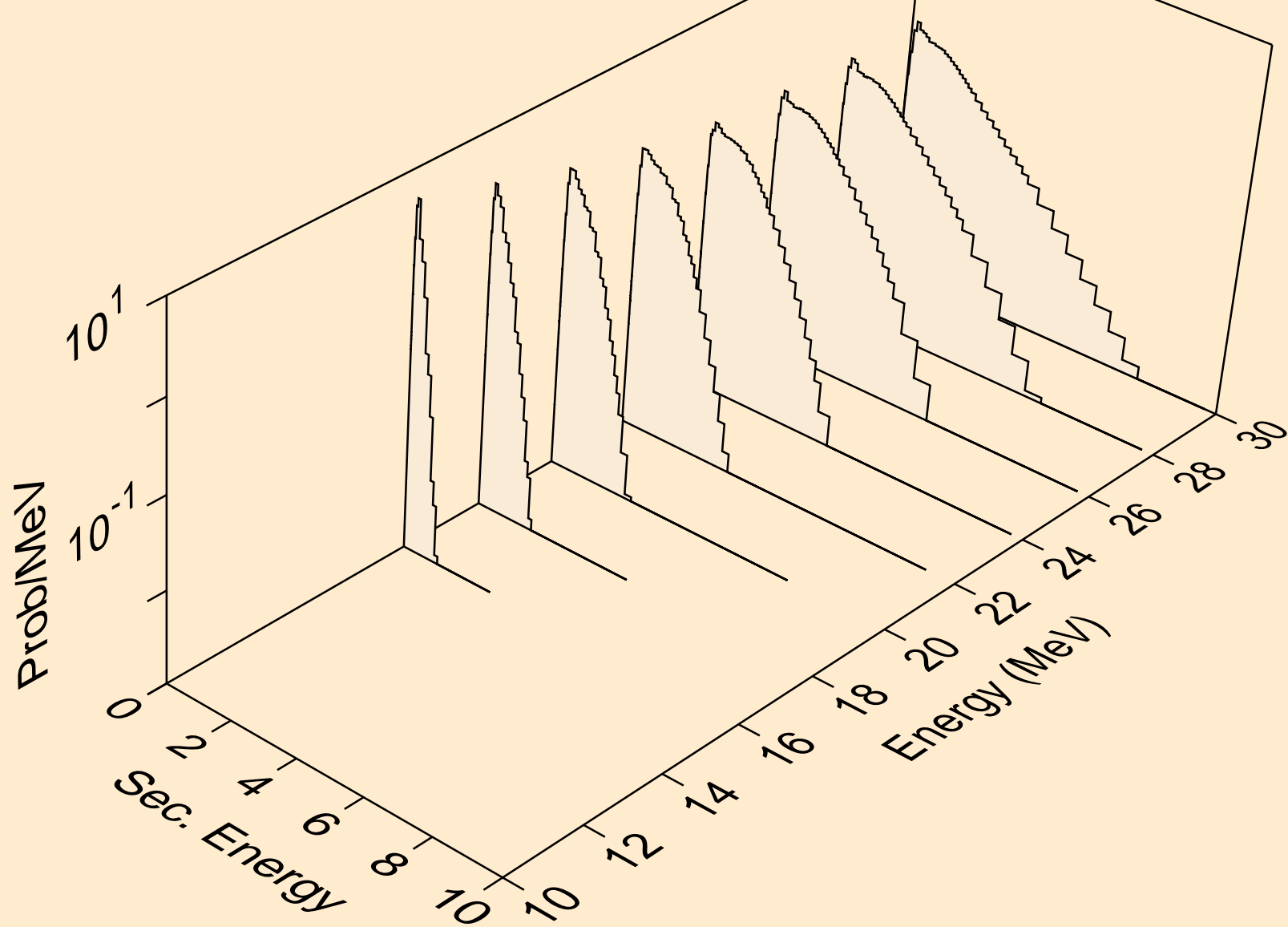
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Neutron emission for (n,2np)



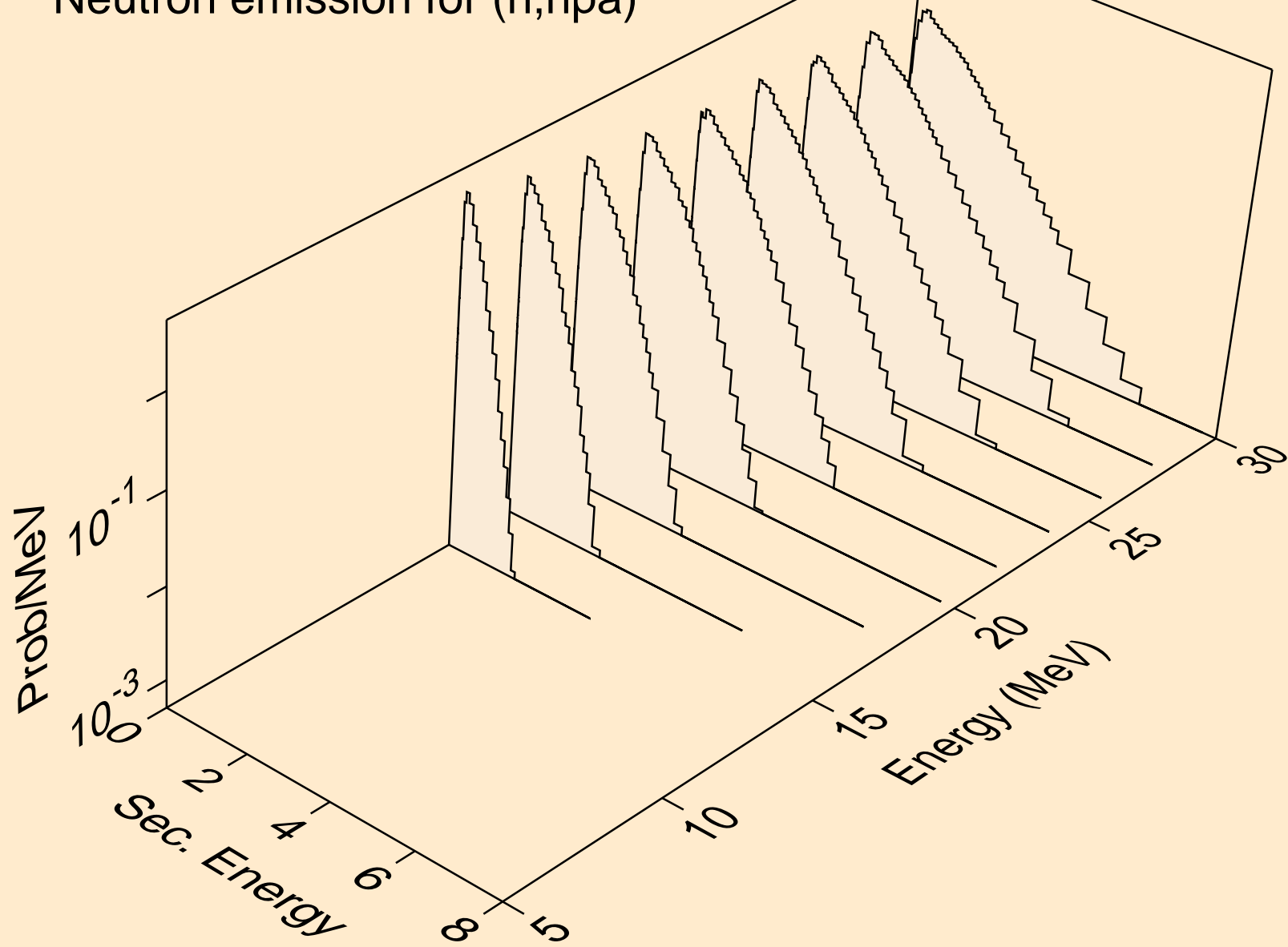
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)



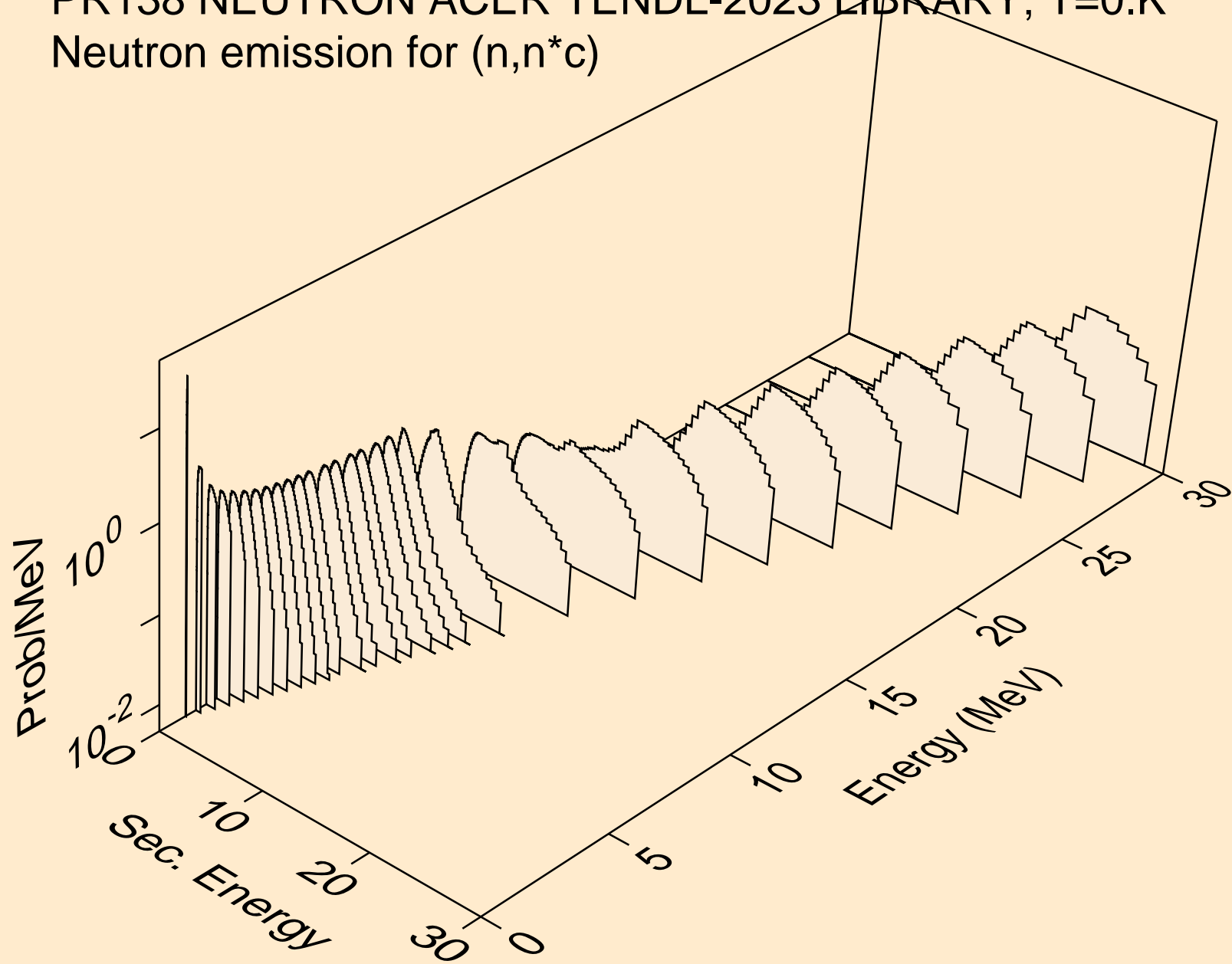
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



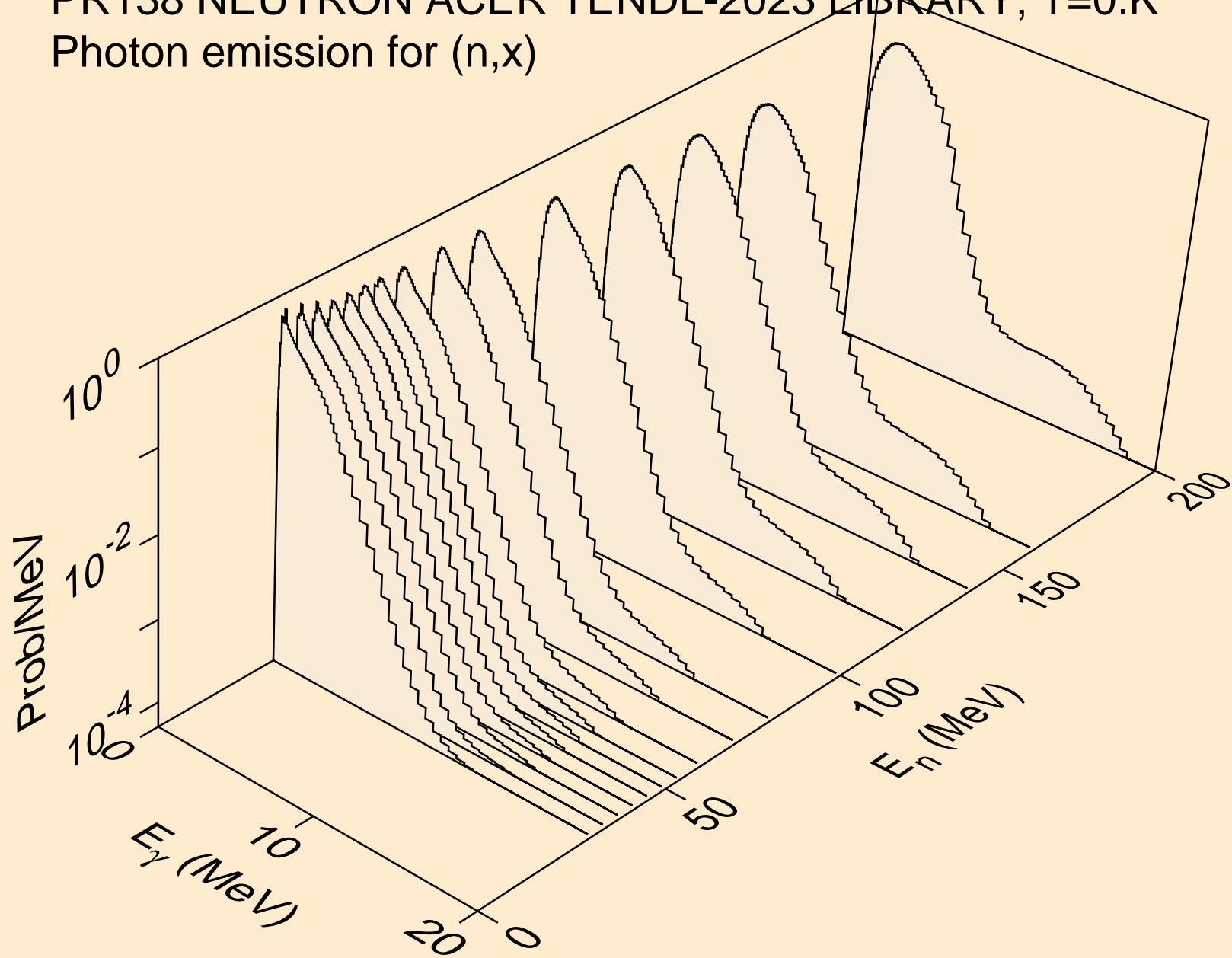
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



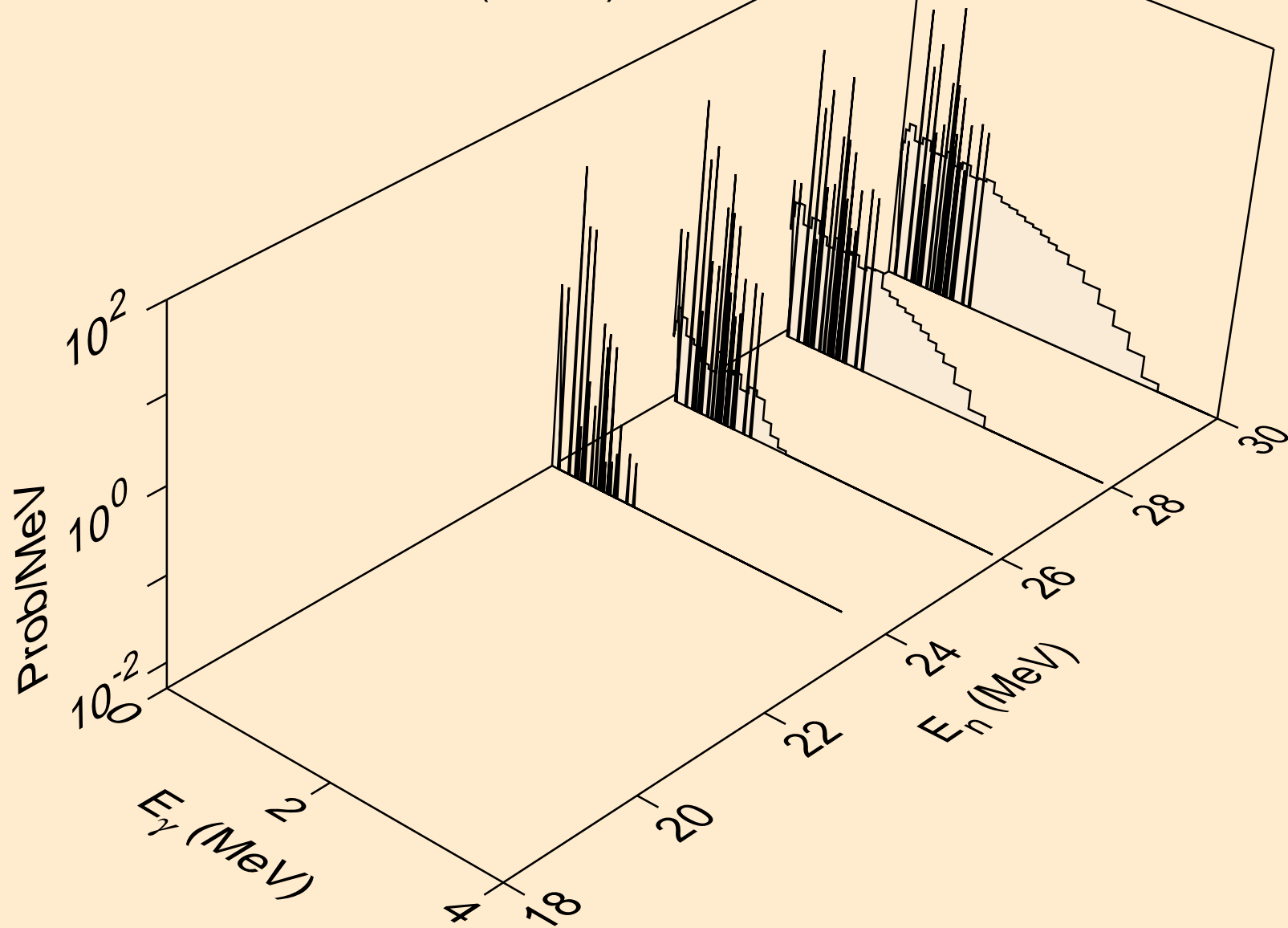
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



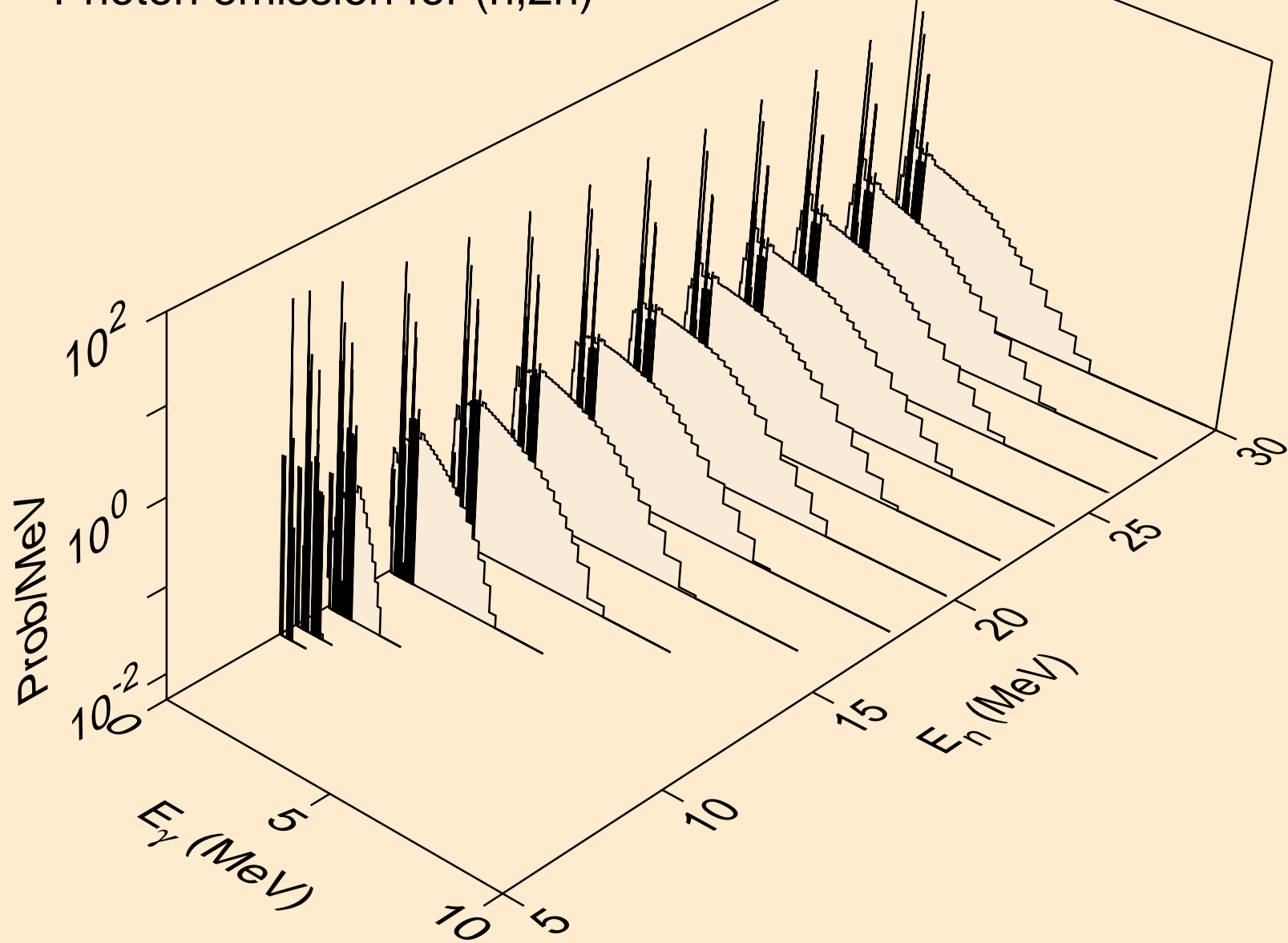
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



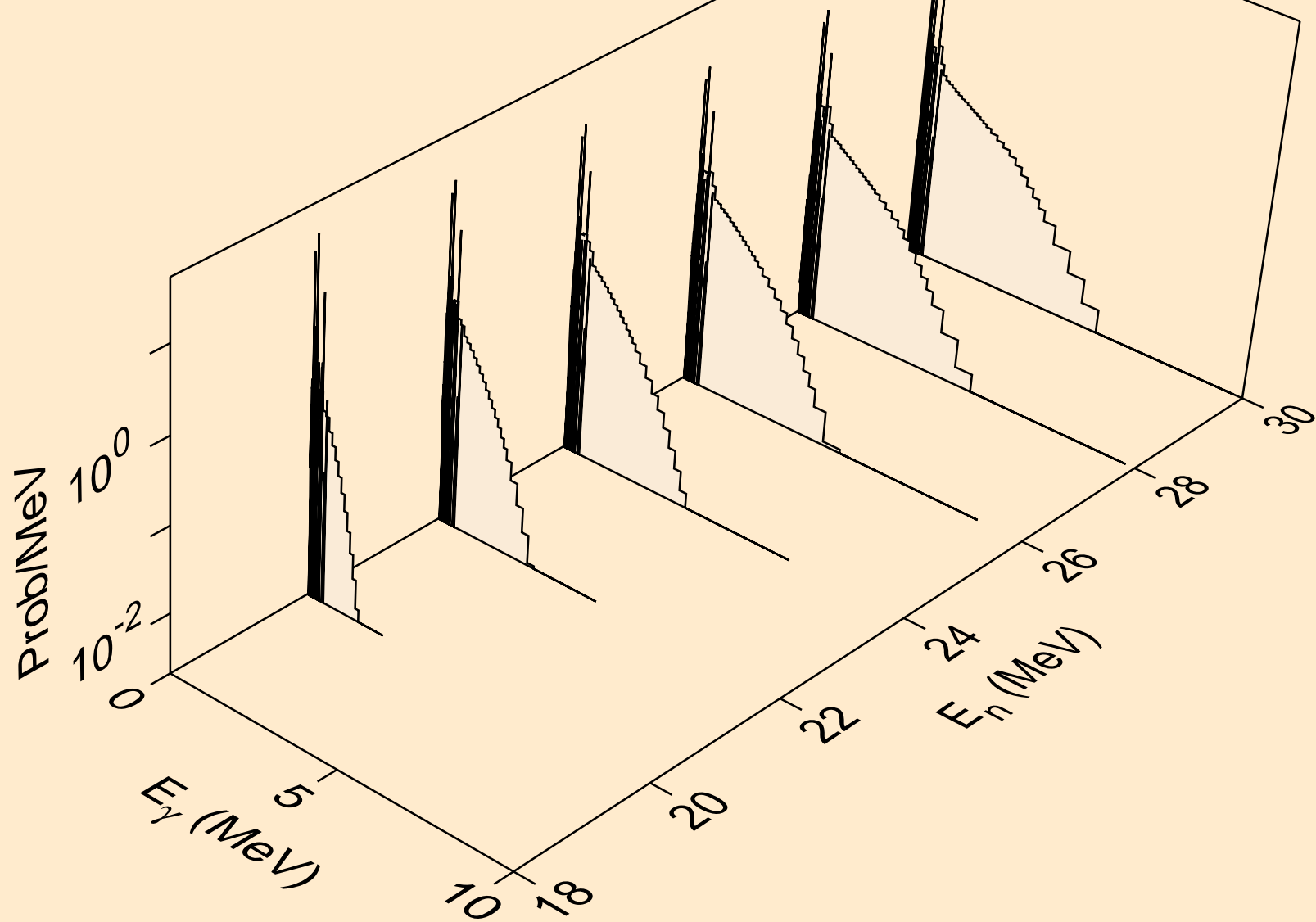
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



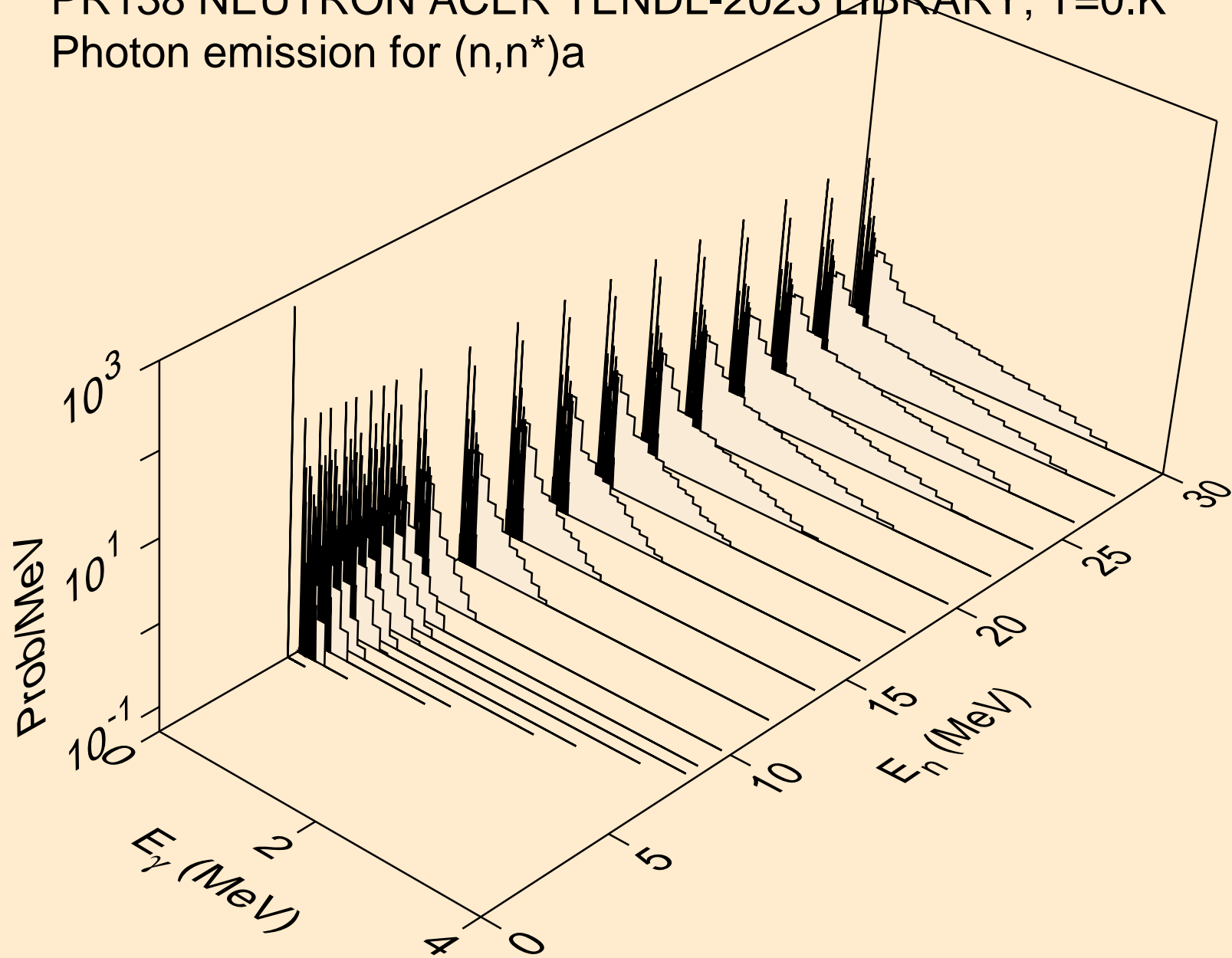
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Photon emission for (n,2n)



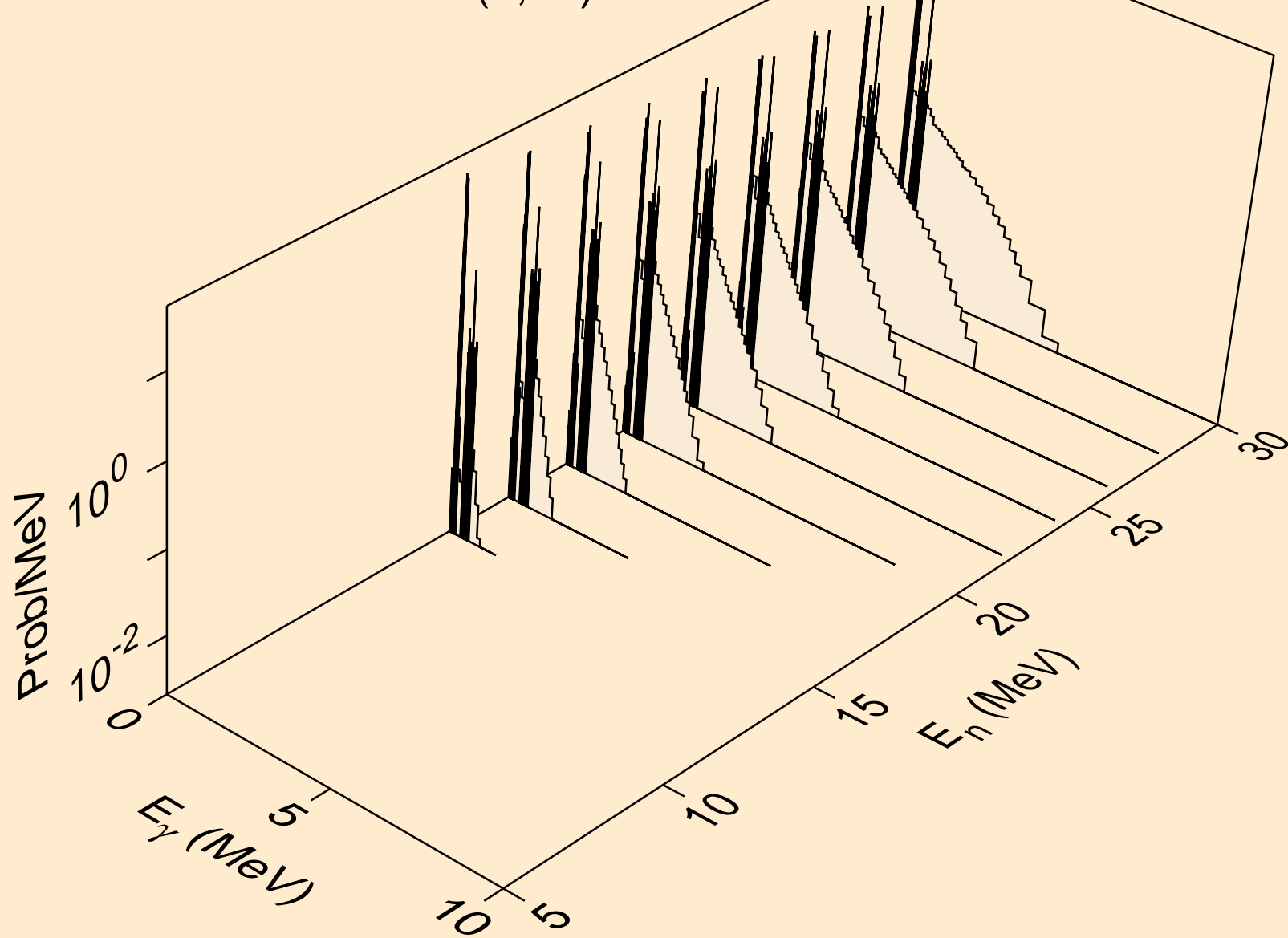
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Photon emission for (n,3n)



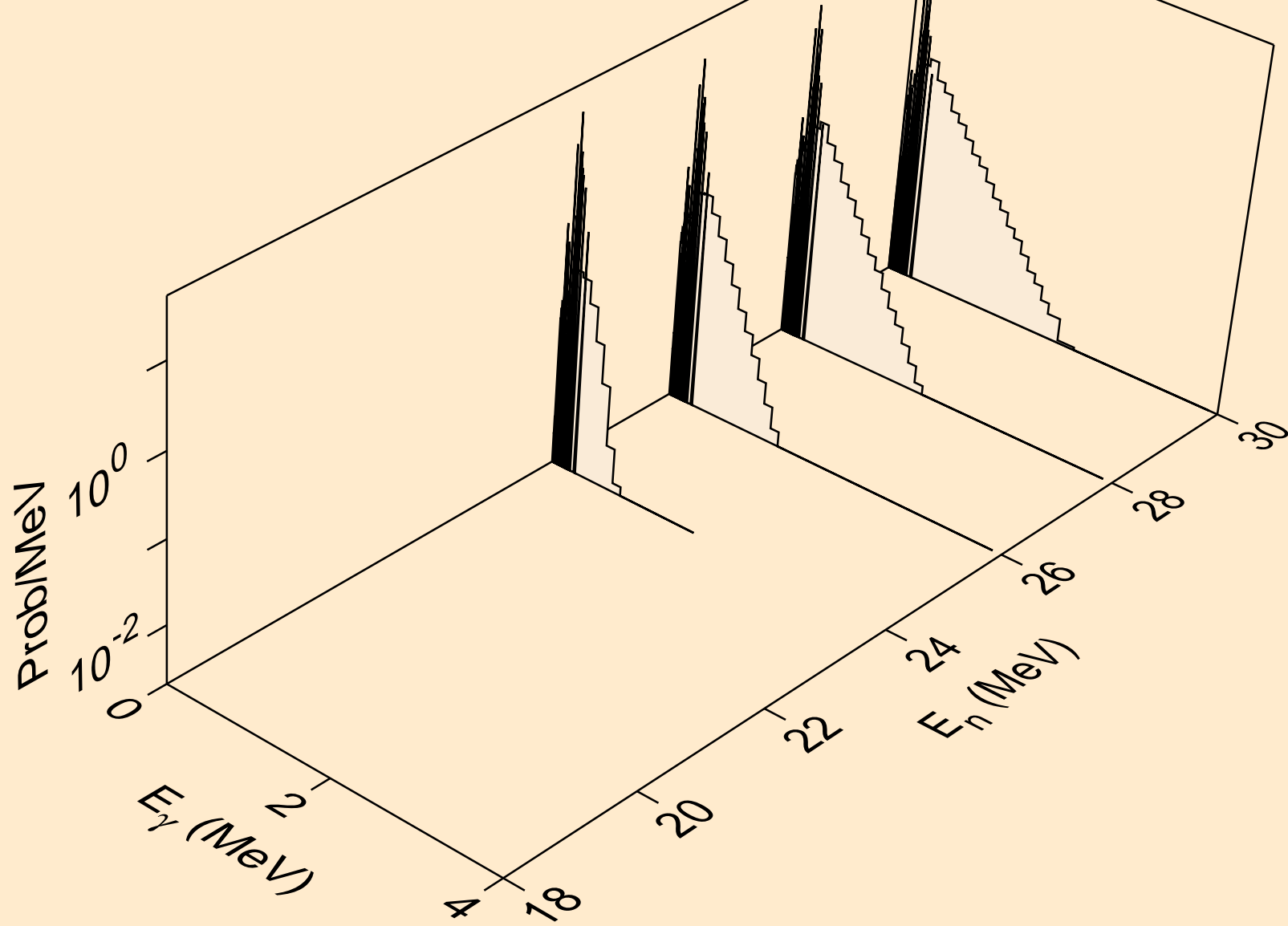
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Photon emission for (n,n\*)a



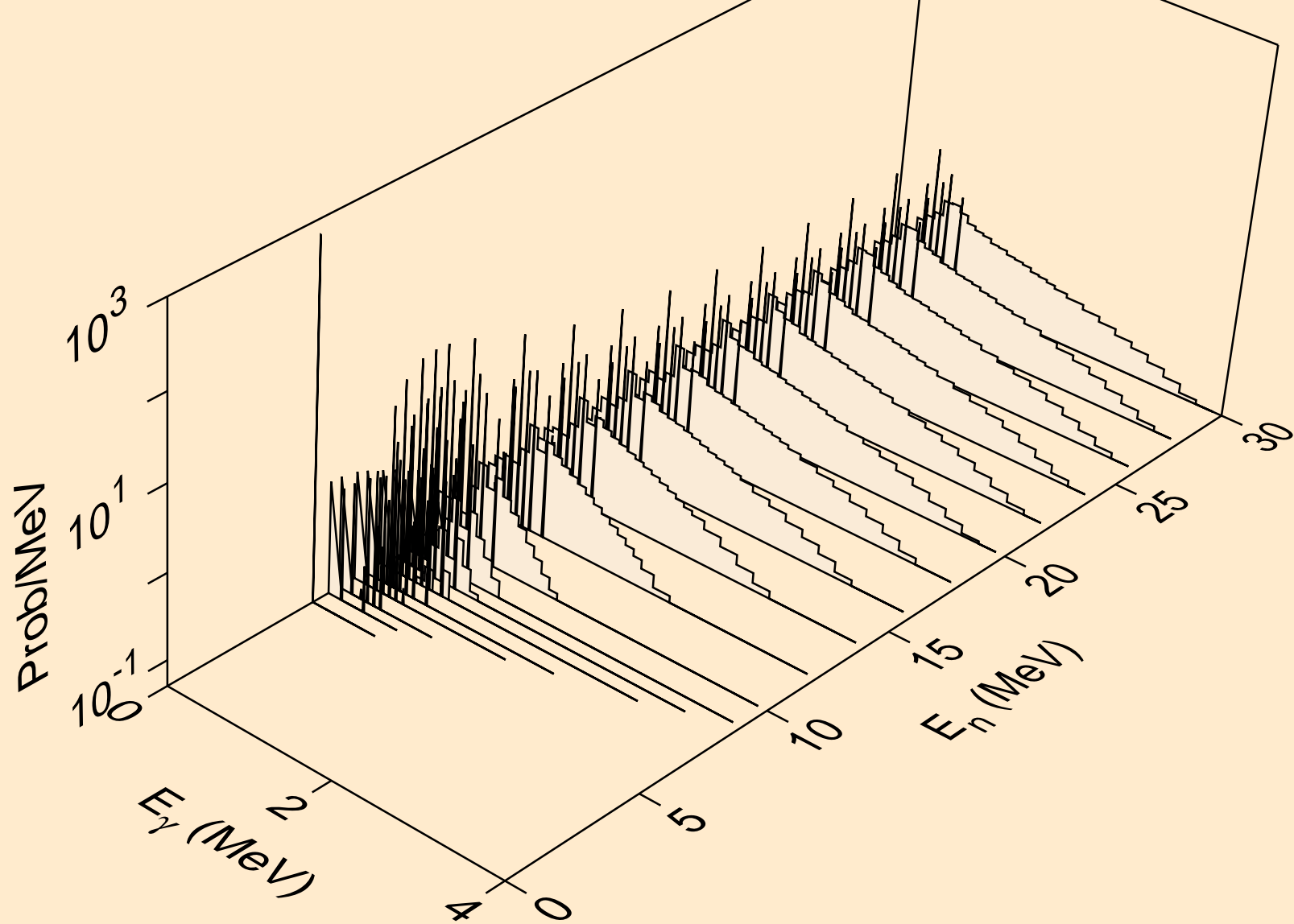
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Photon emission for (n,2n)a



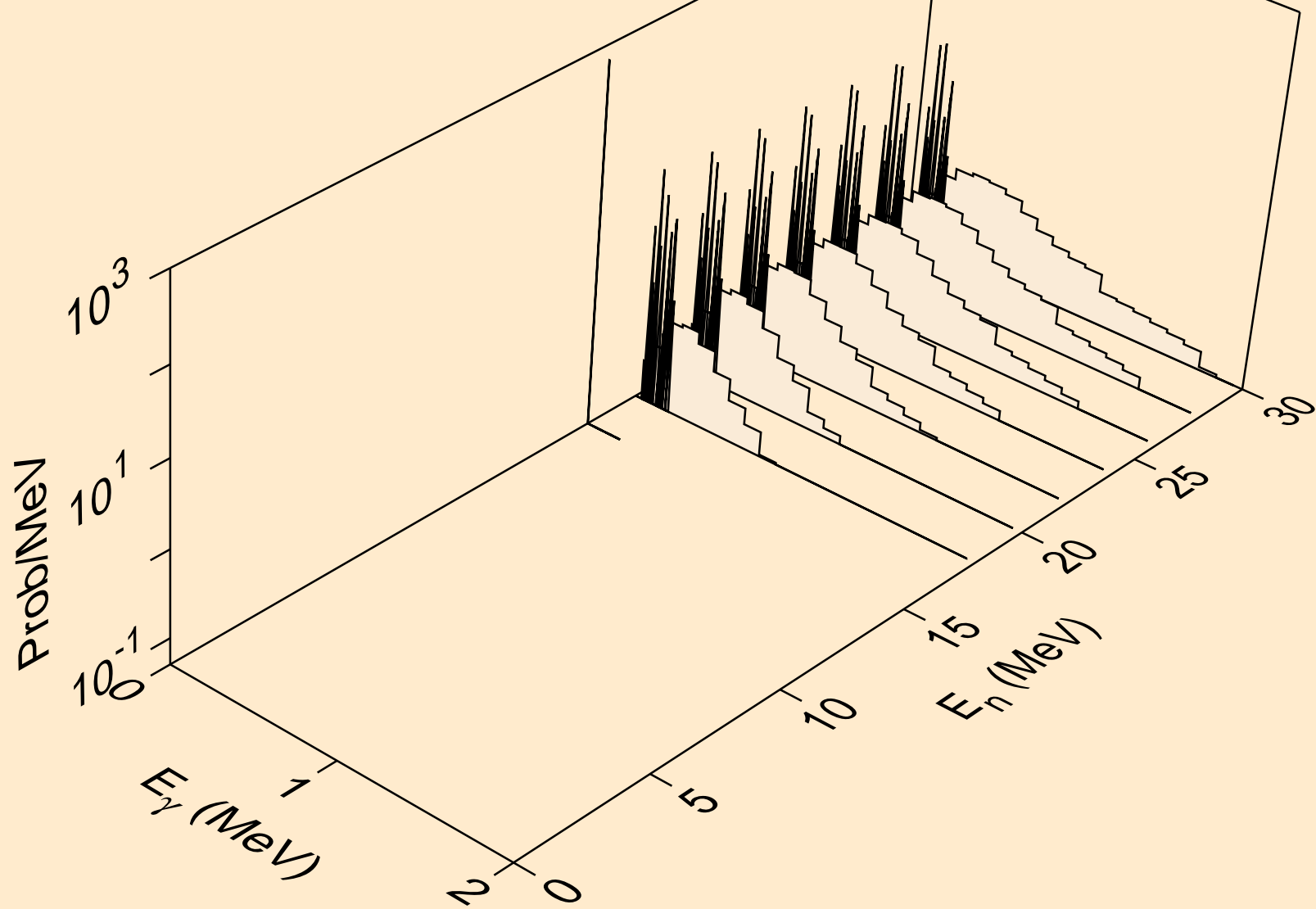
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



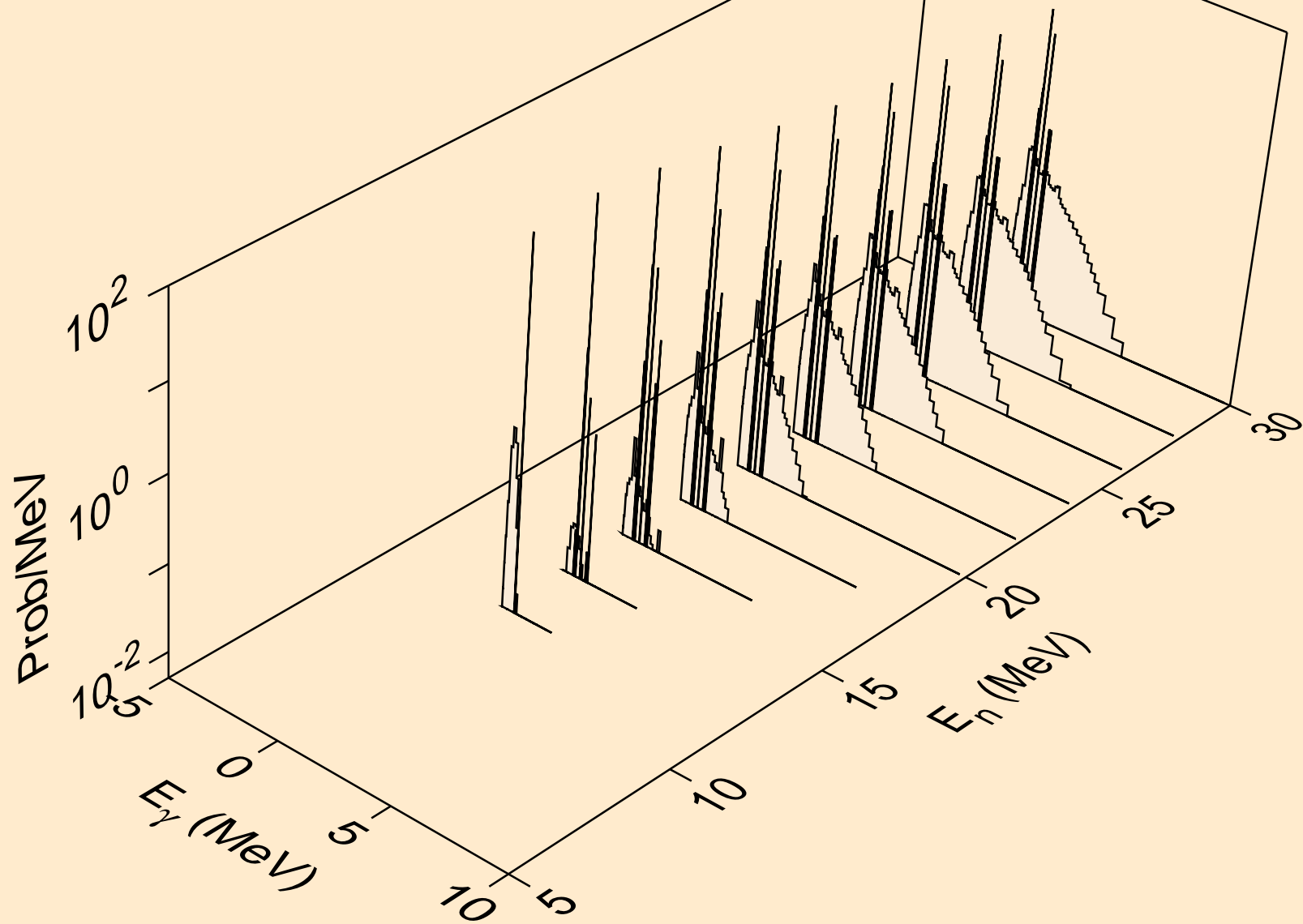
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



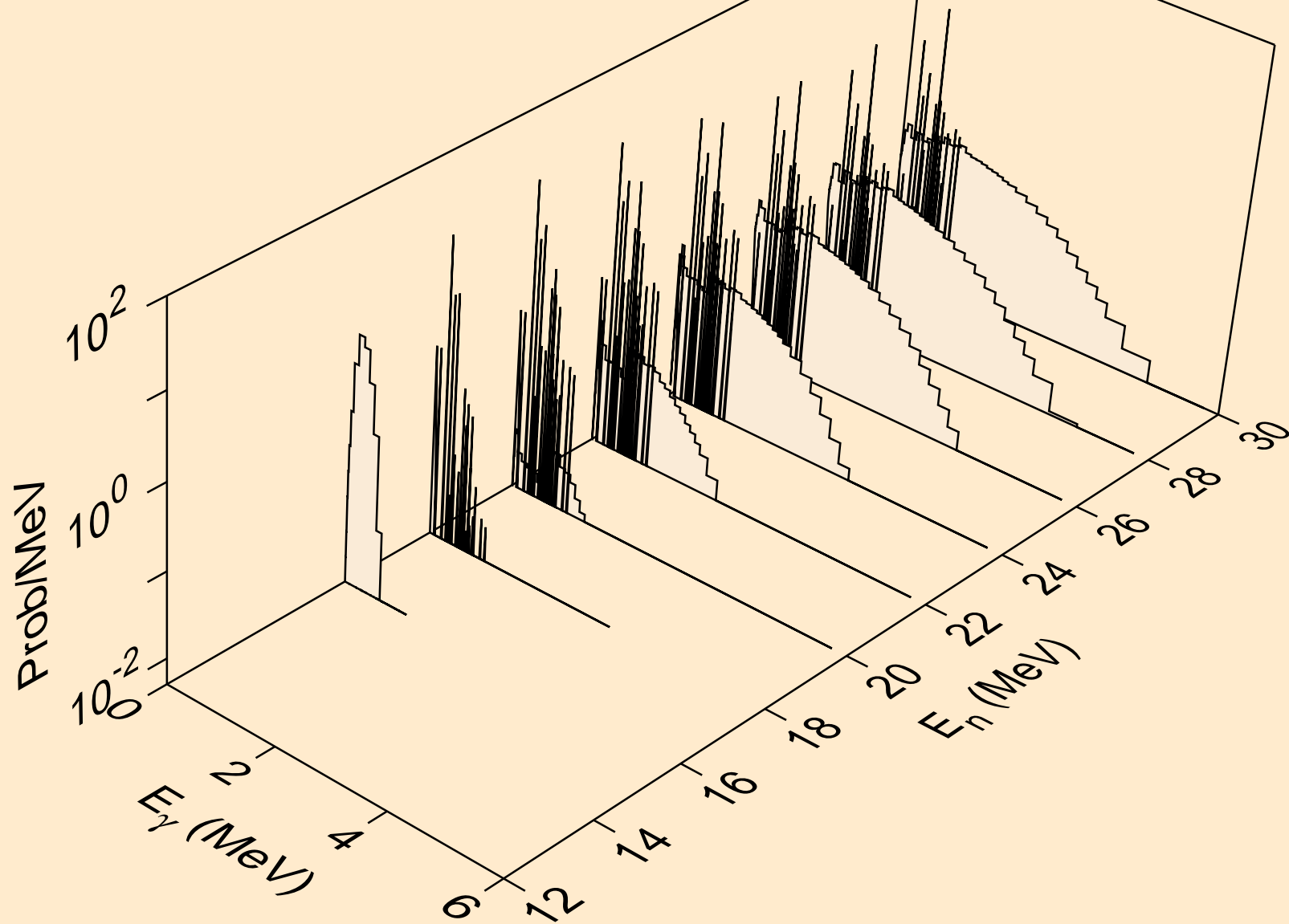
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



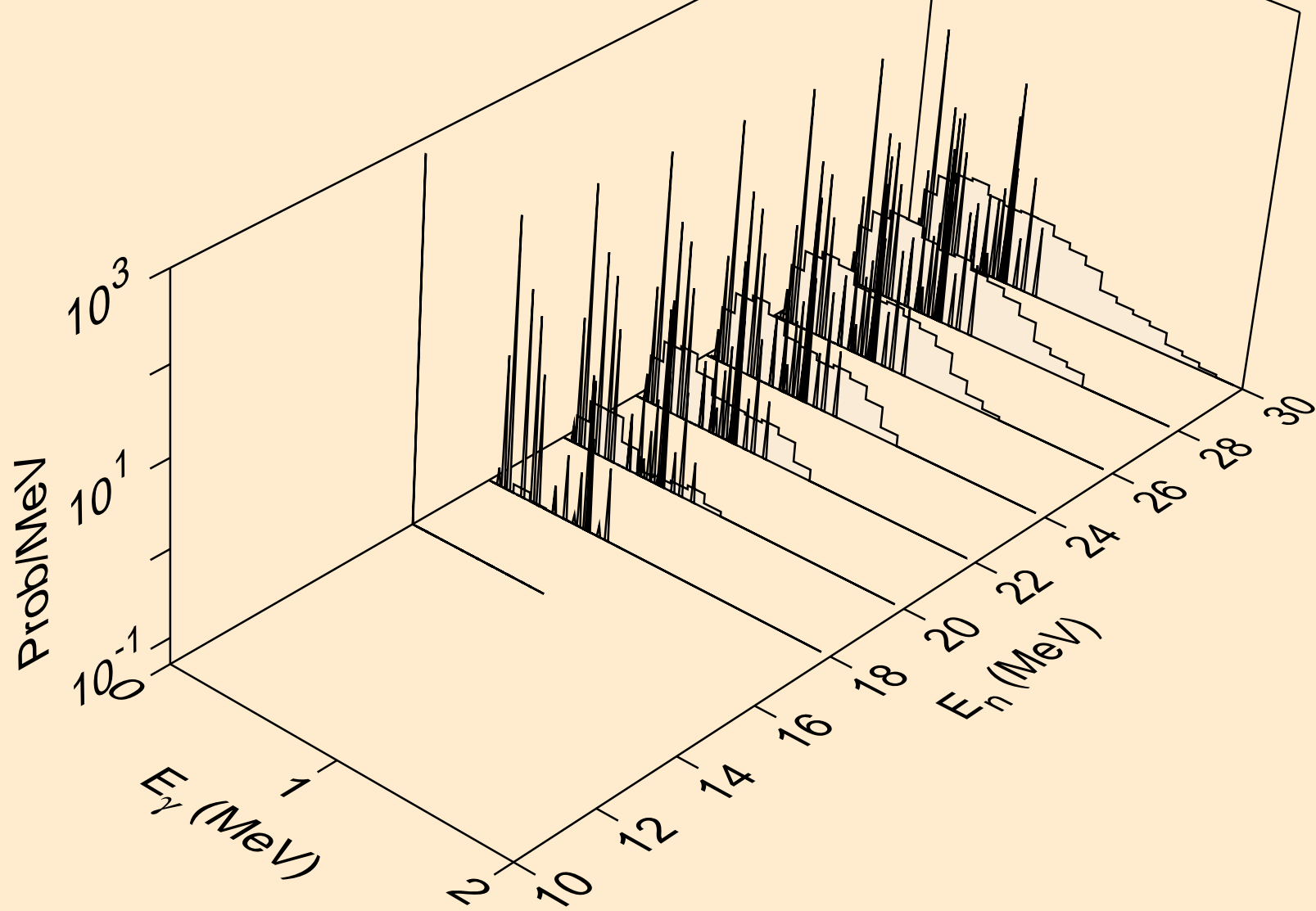
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



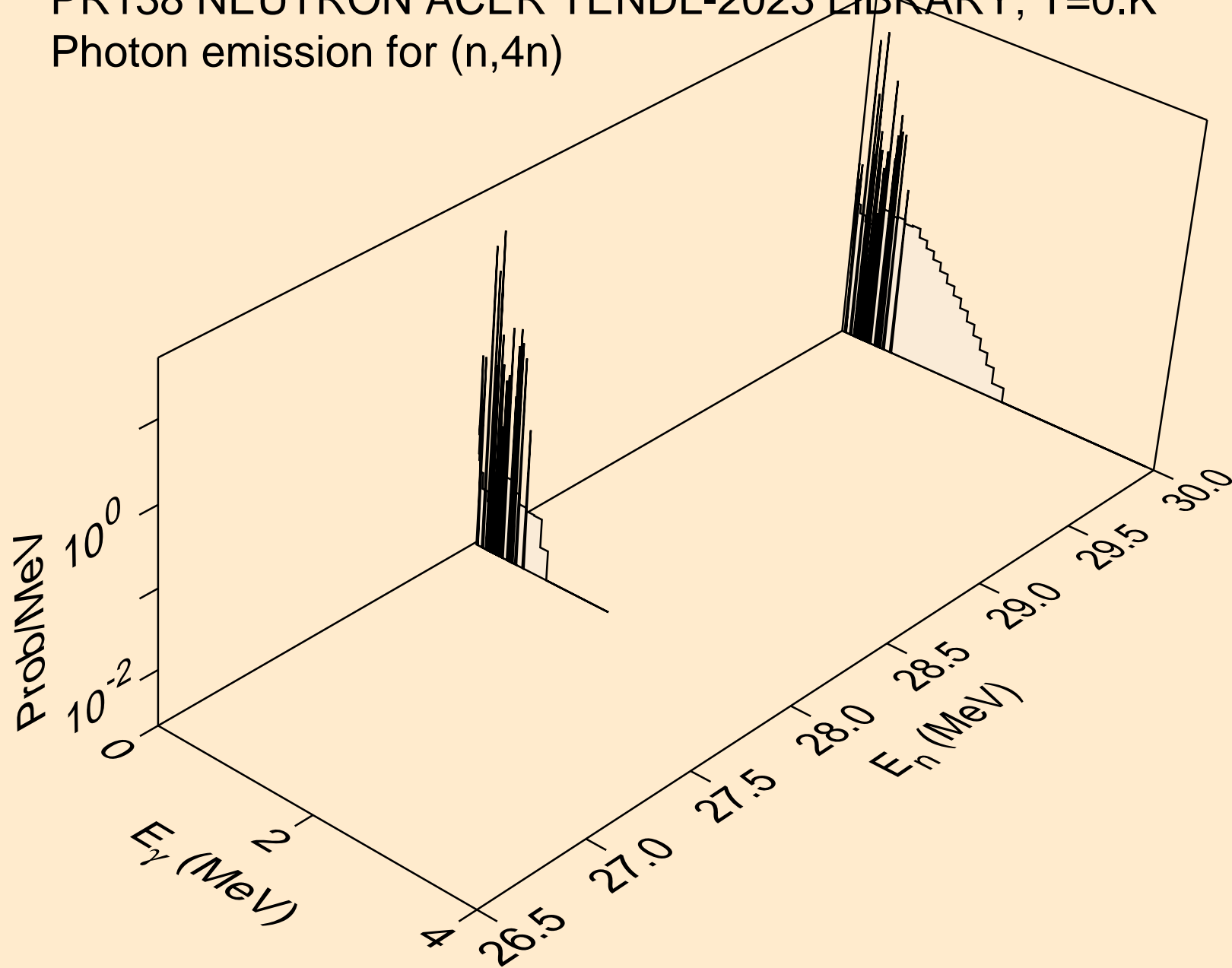
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



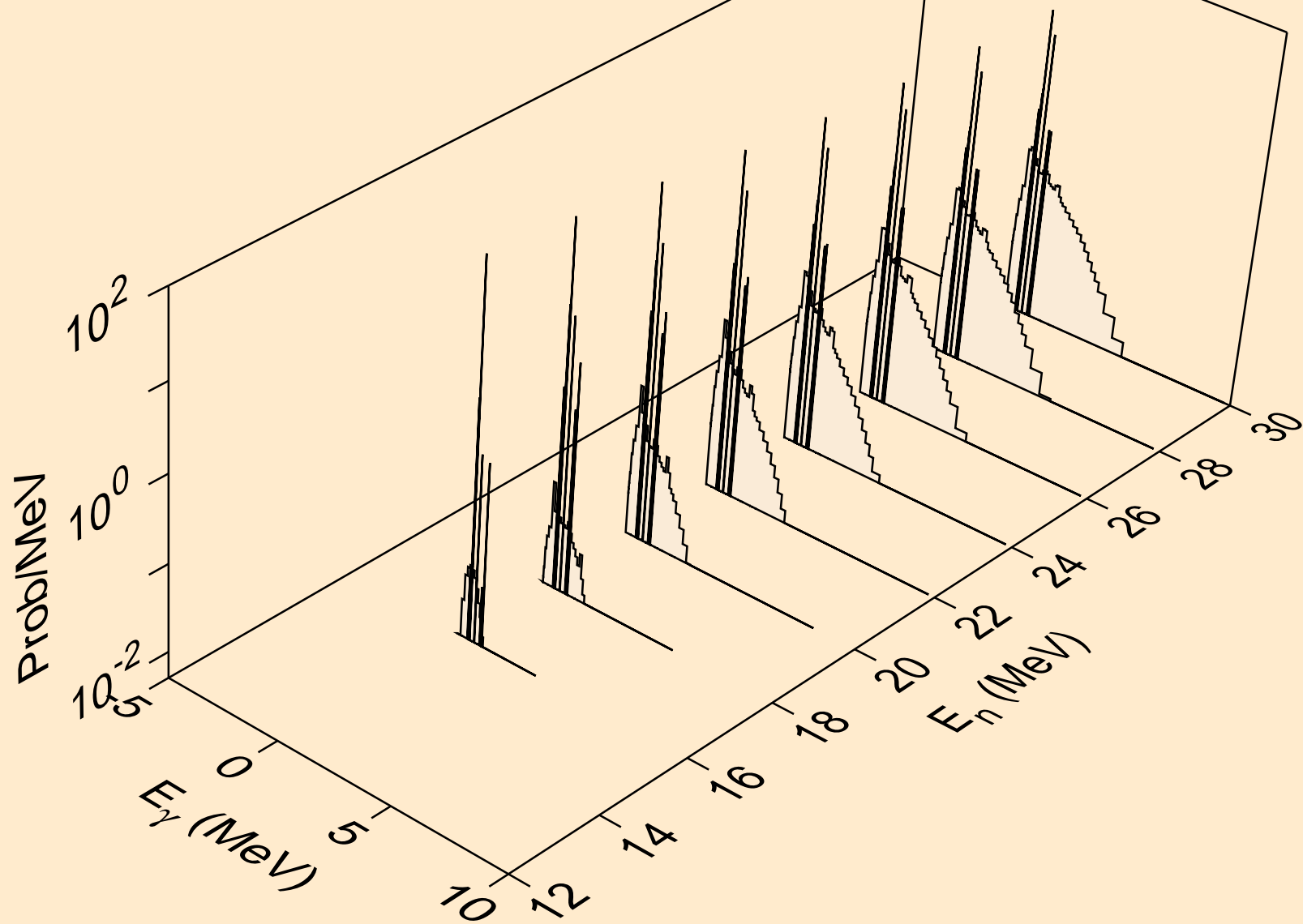
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



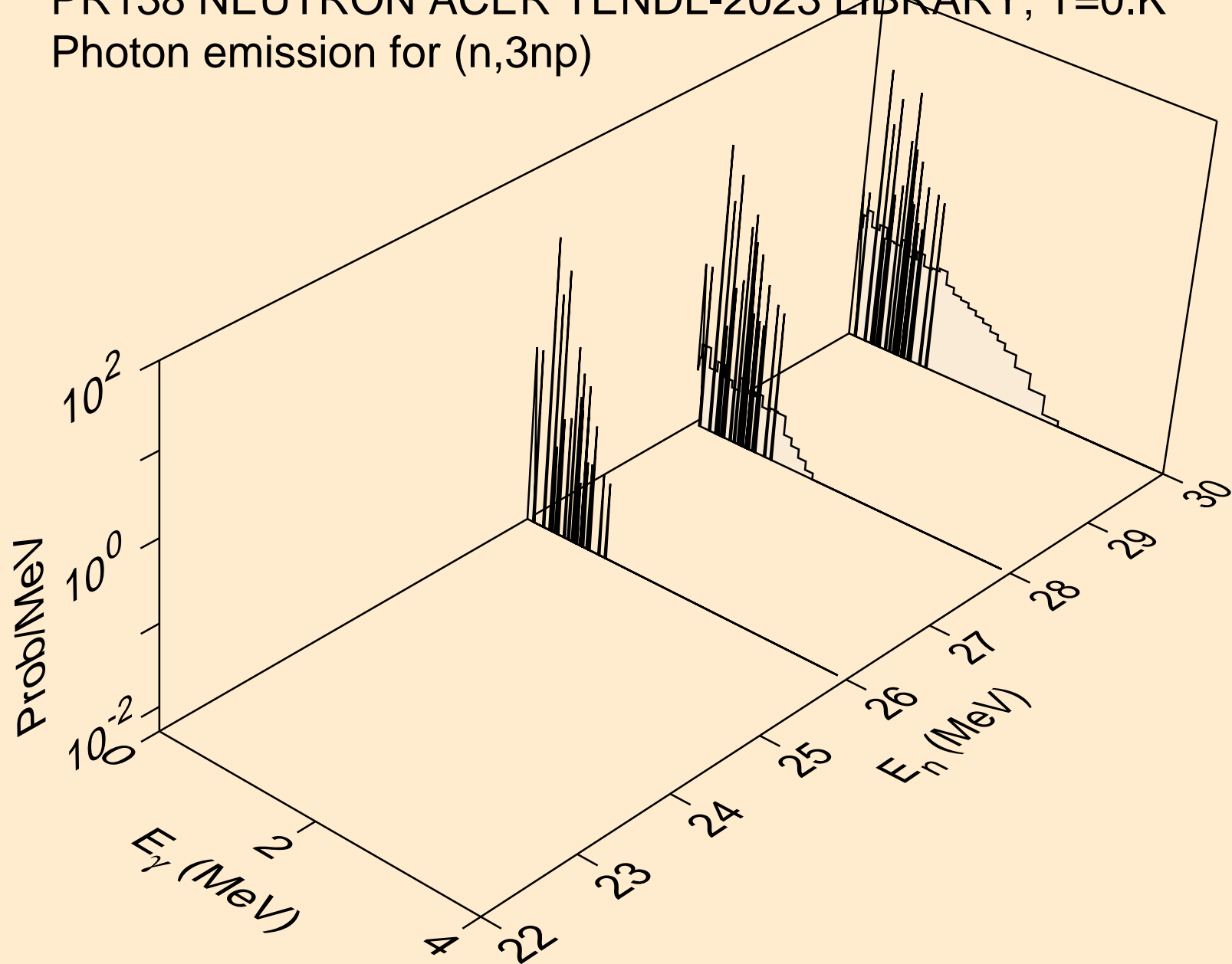
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



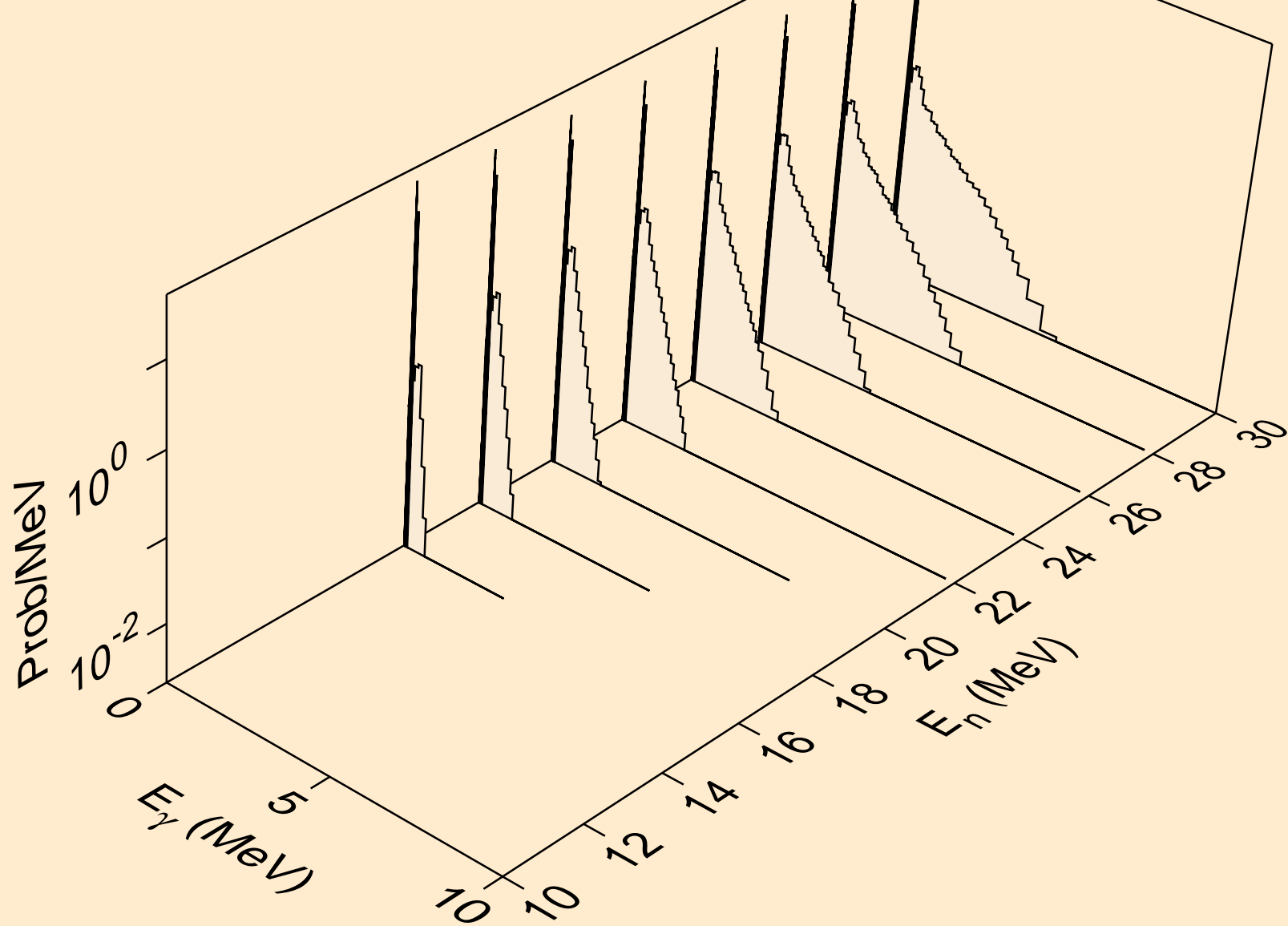
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



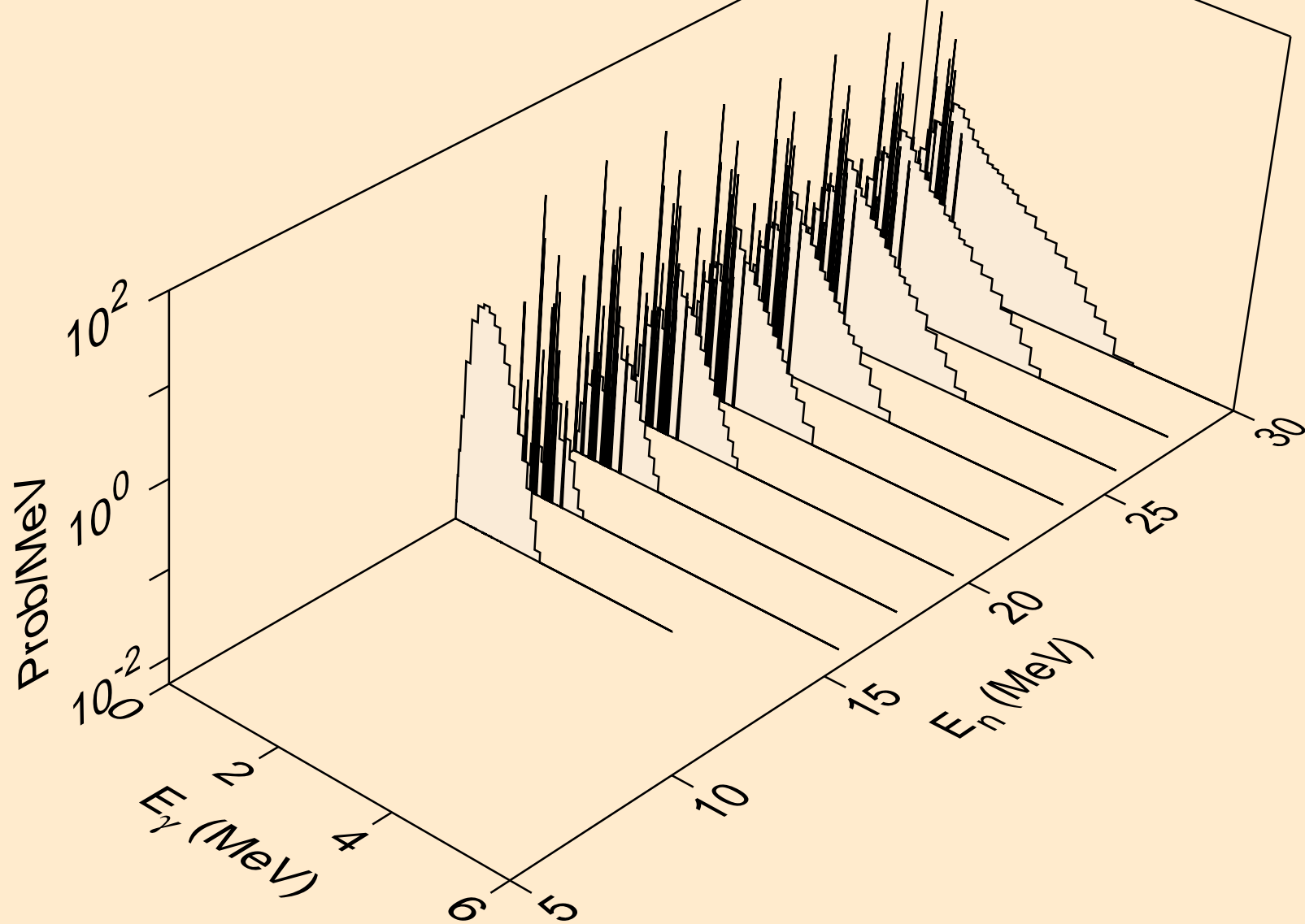
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



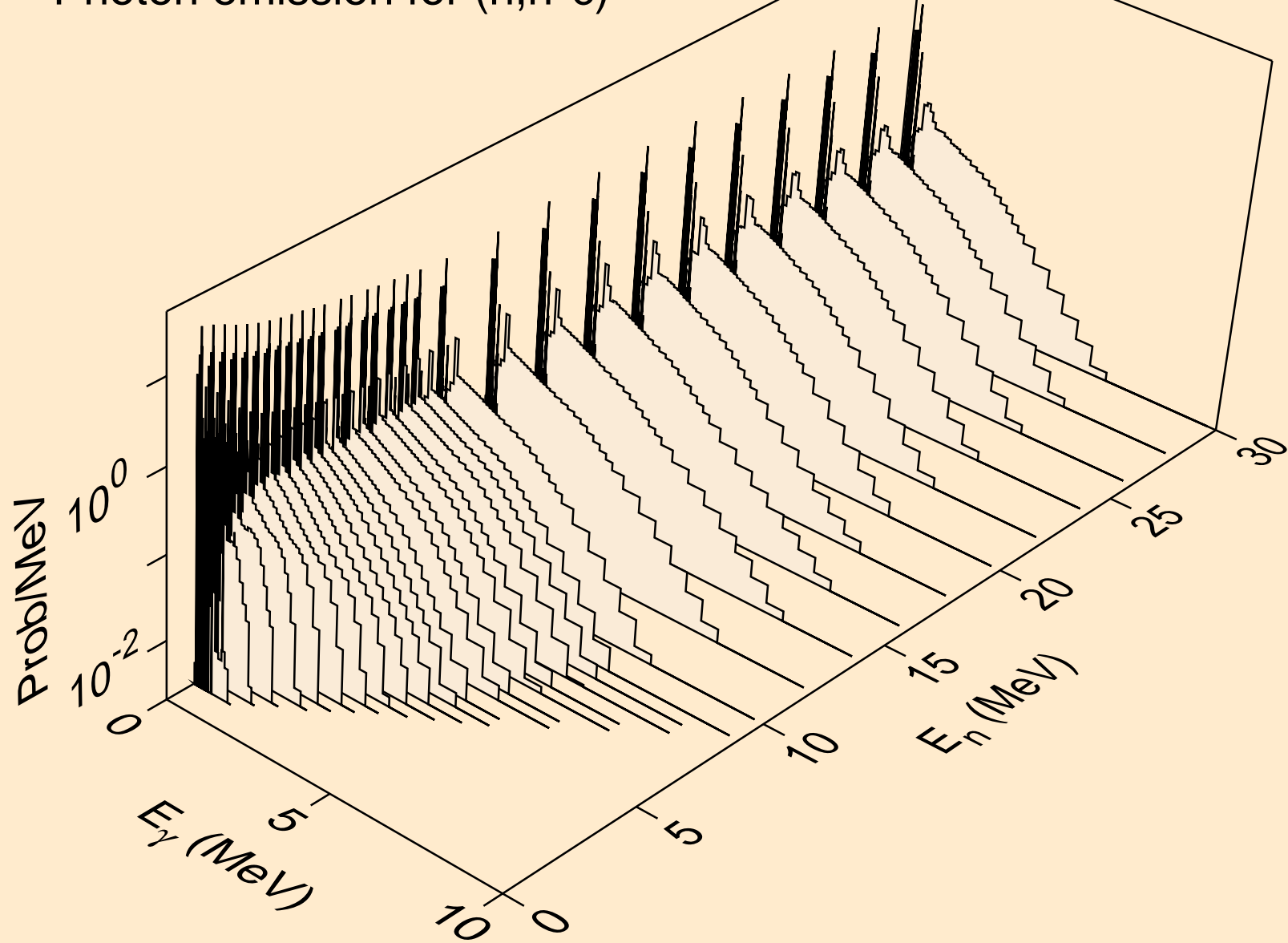
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



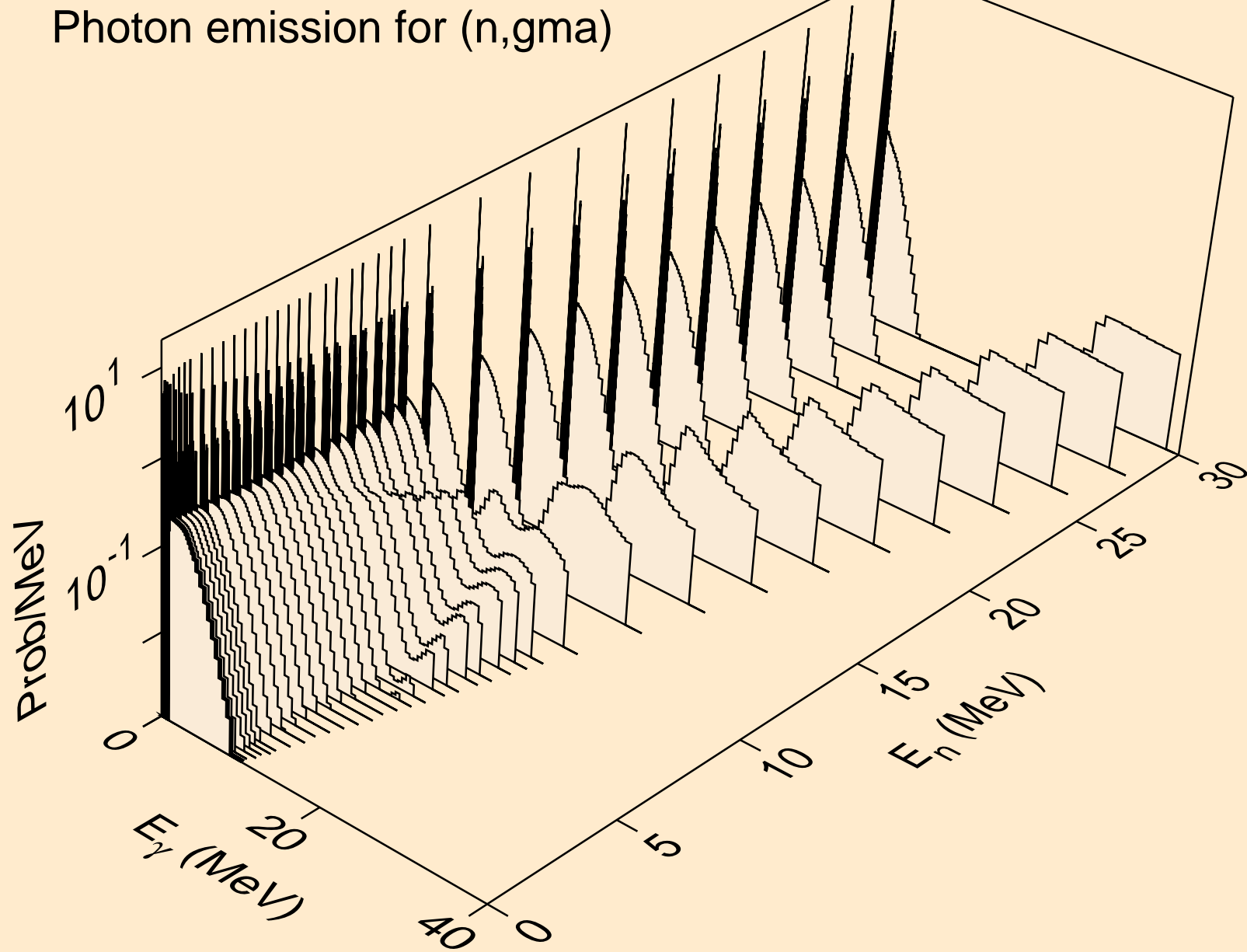
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



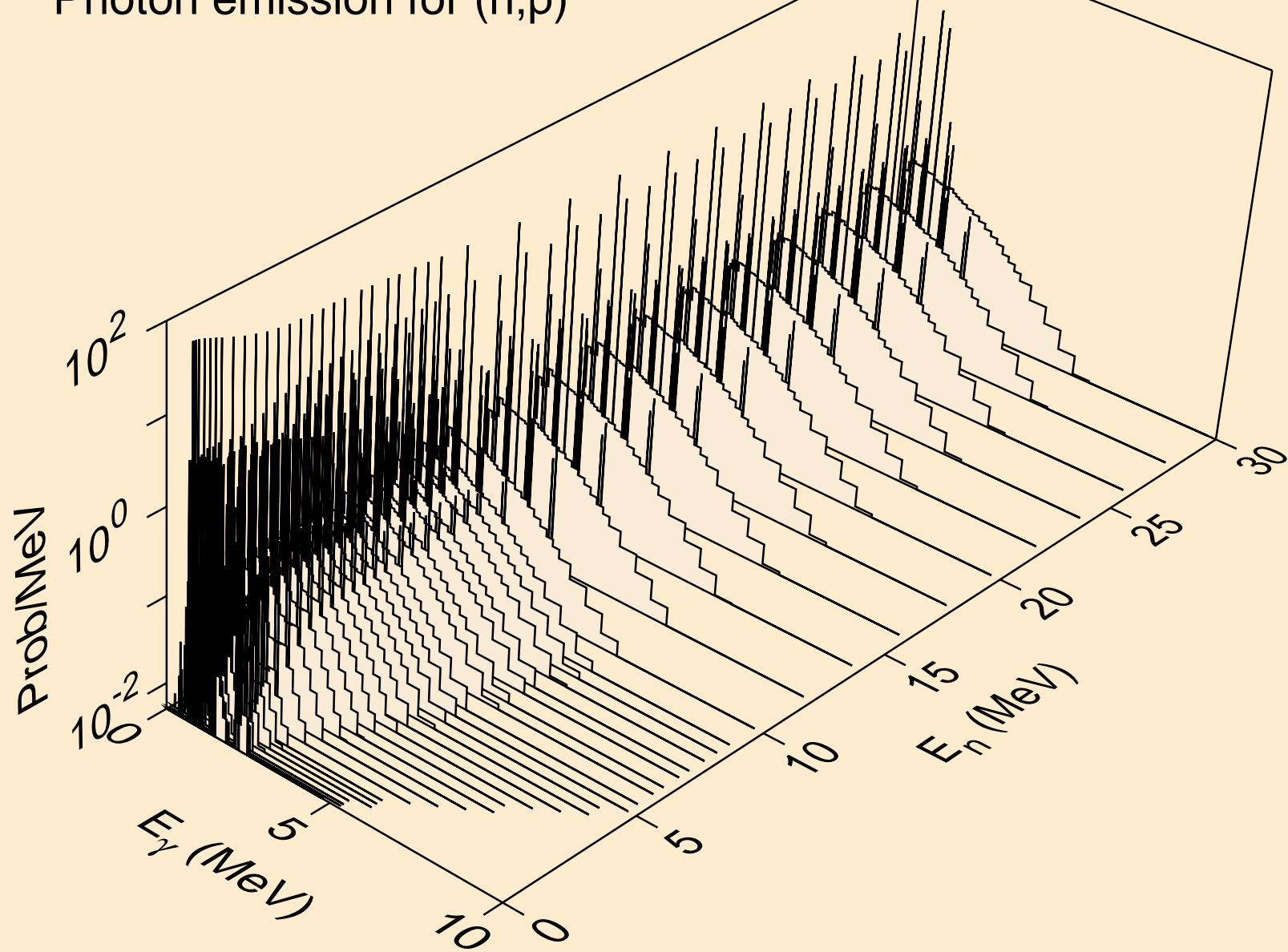
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



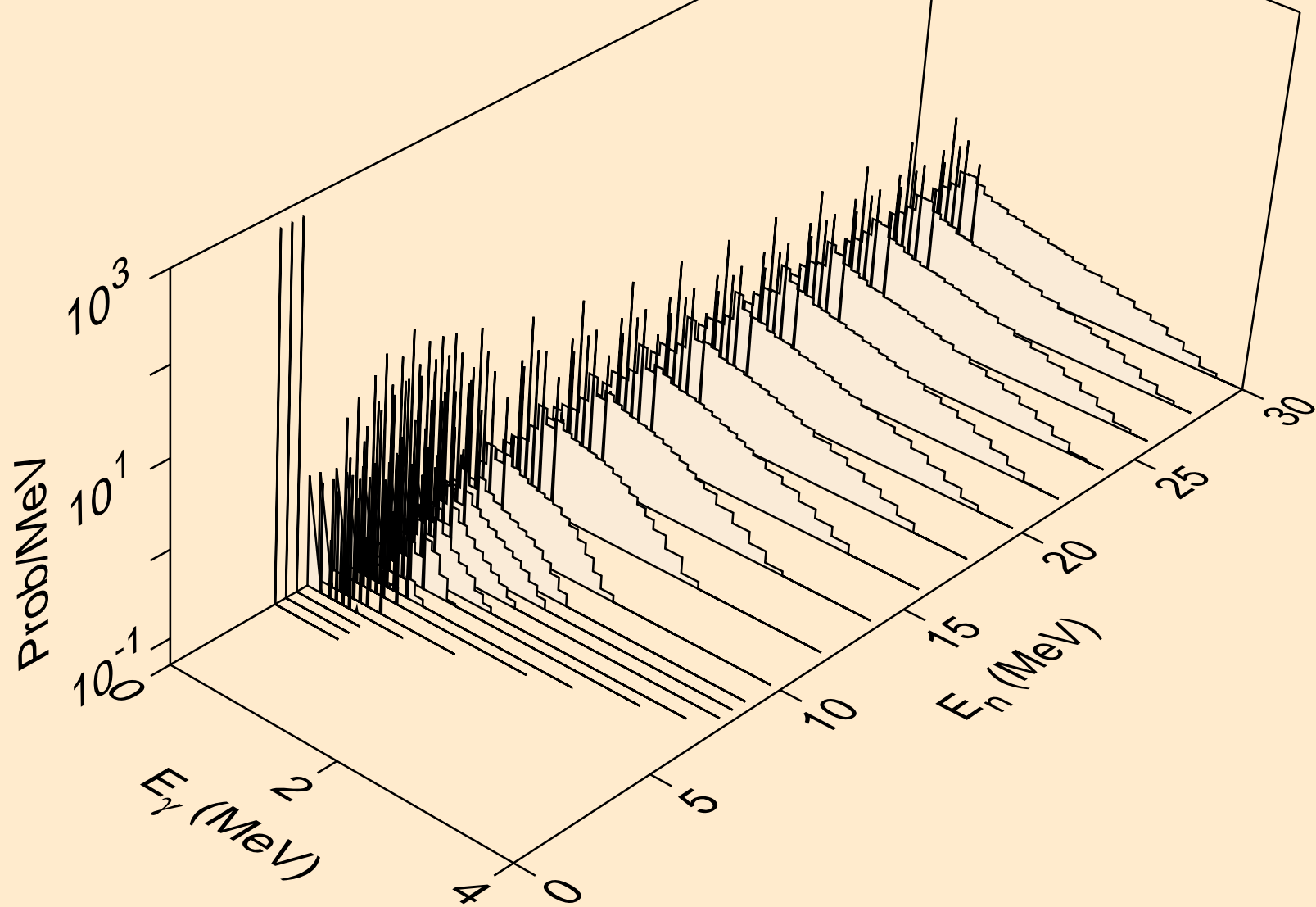
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Photon emission for (n,gma)



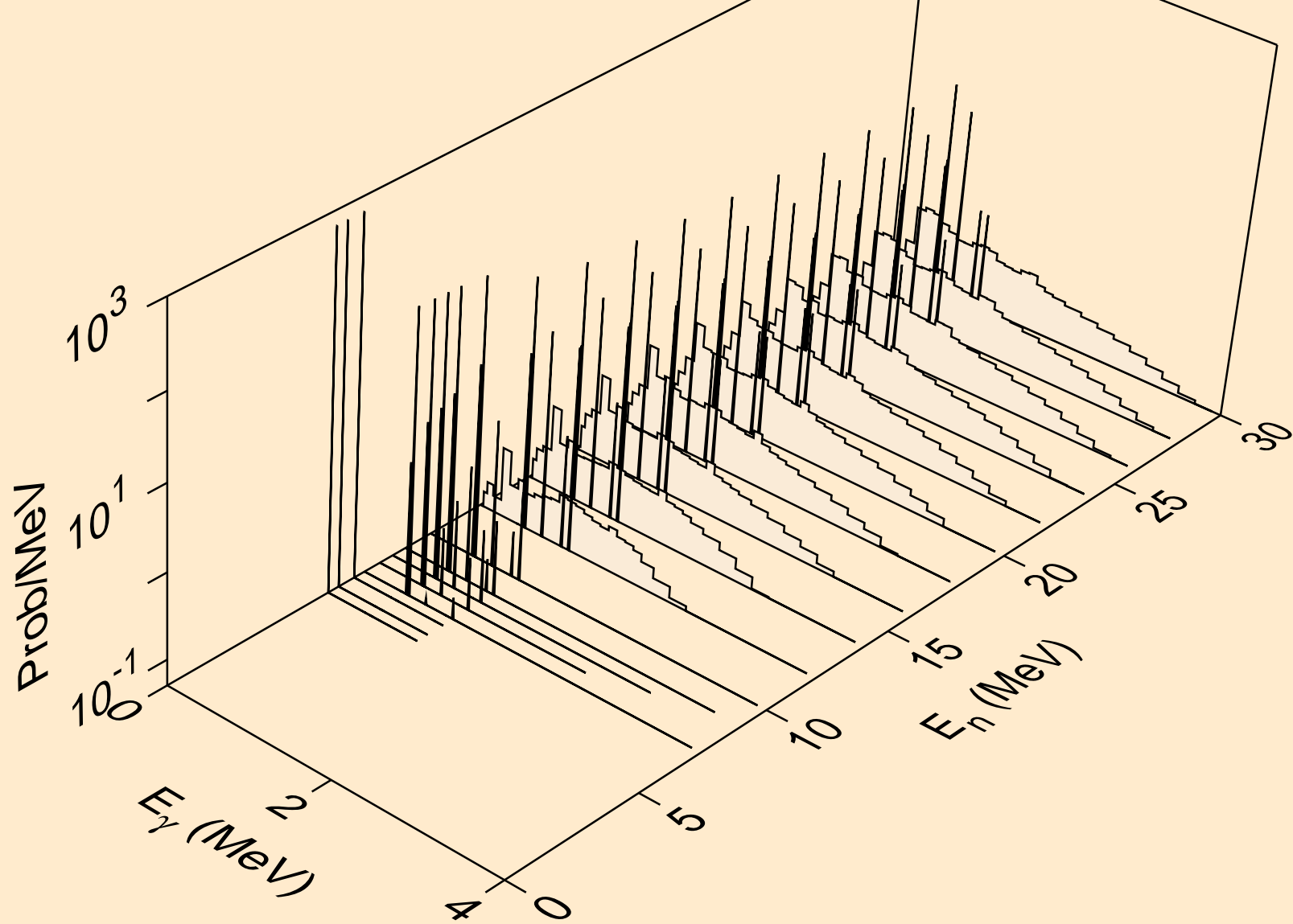
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



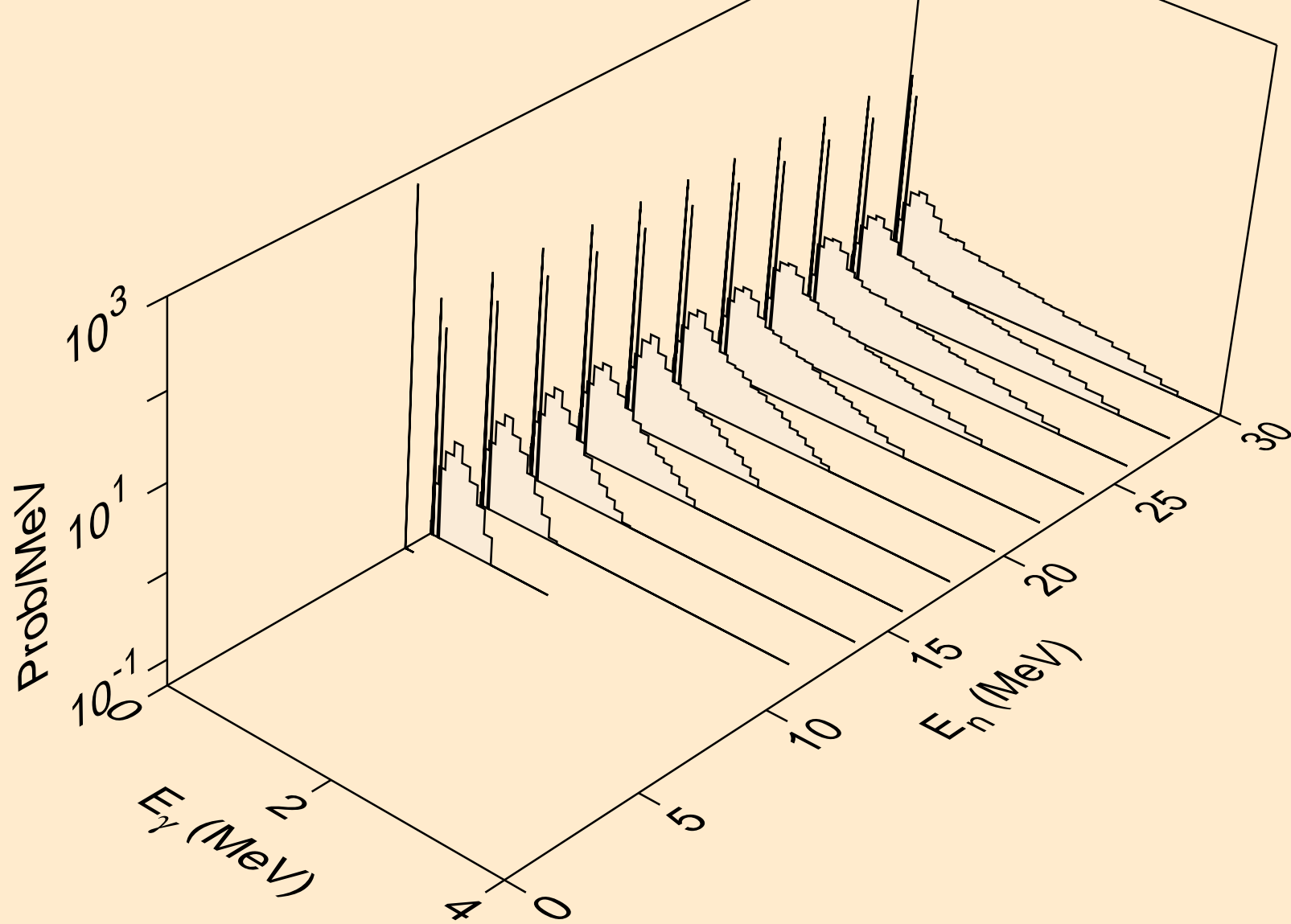
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



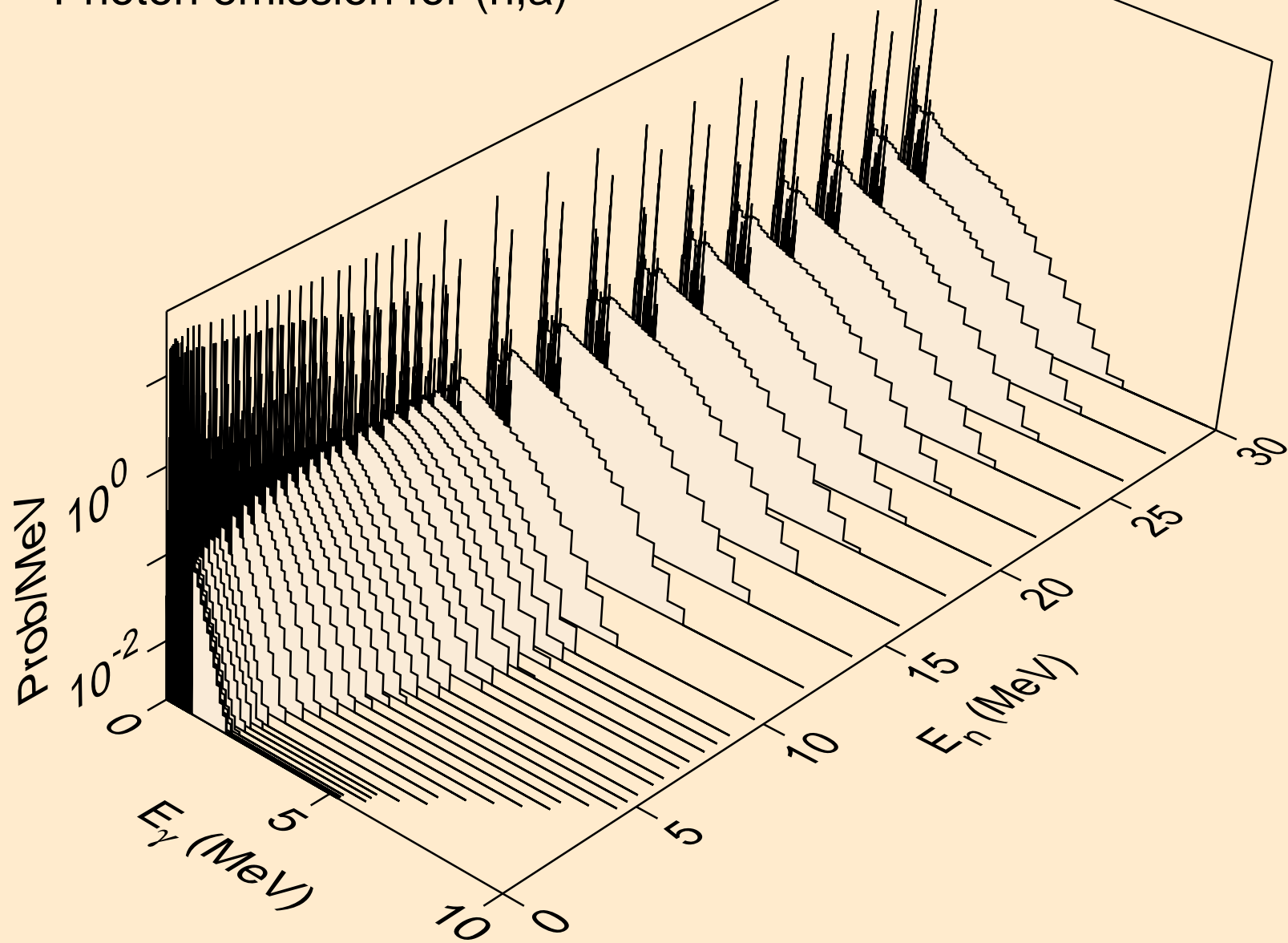
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



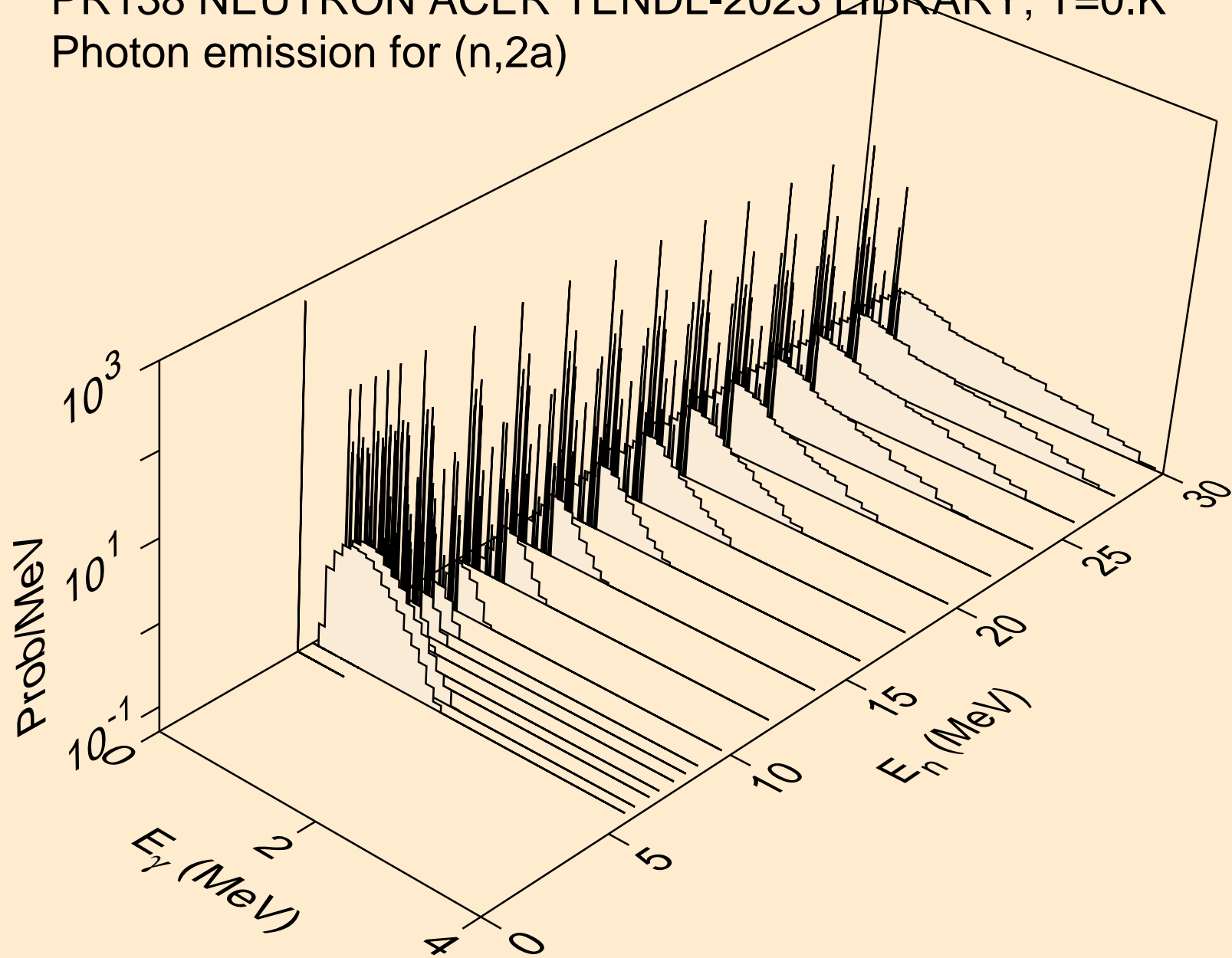
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



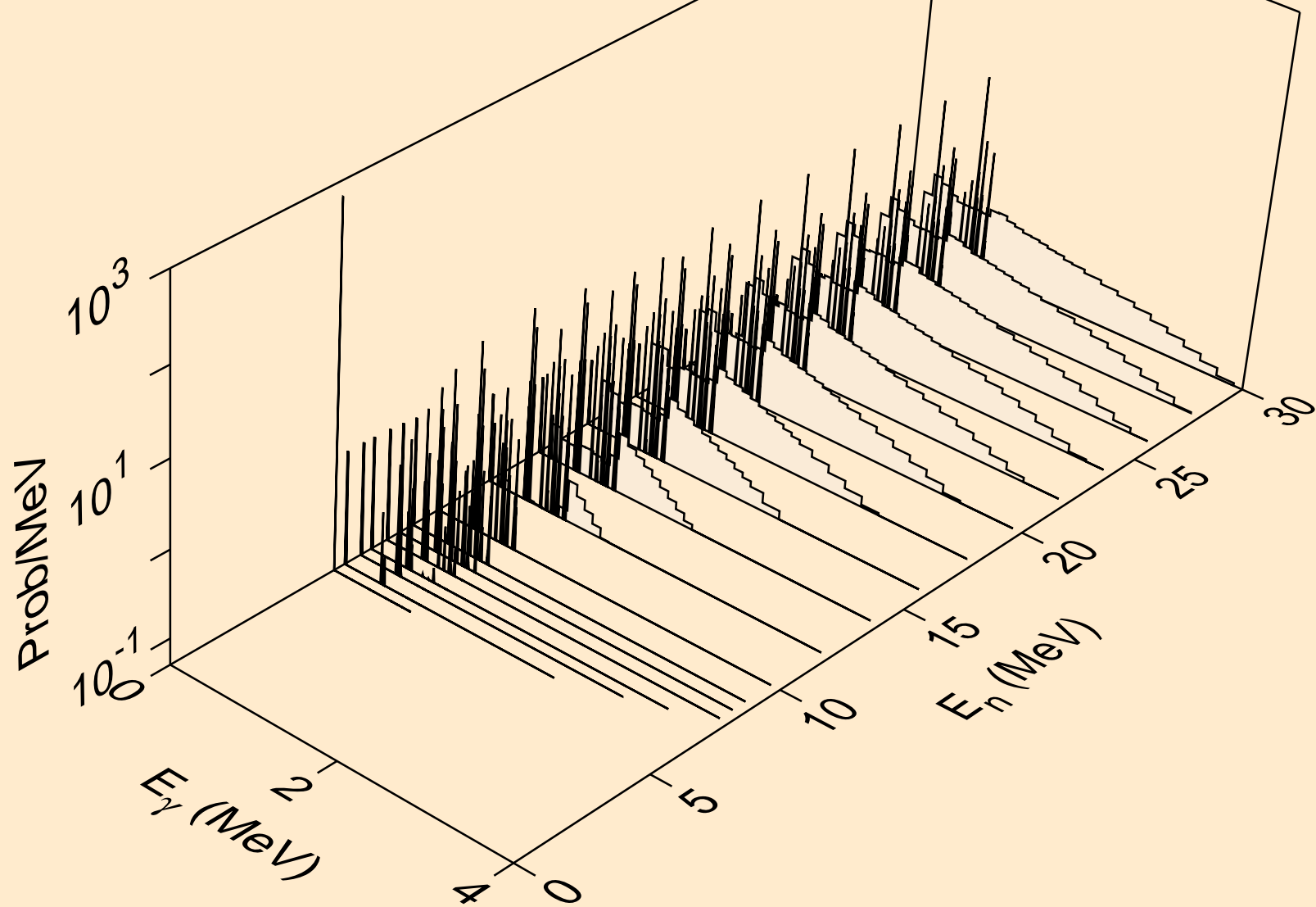
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



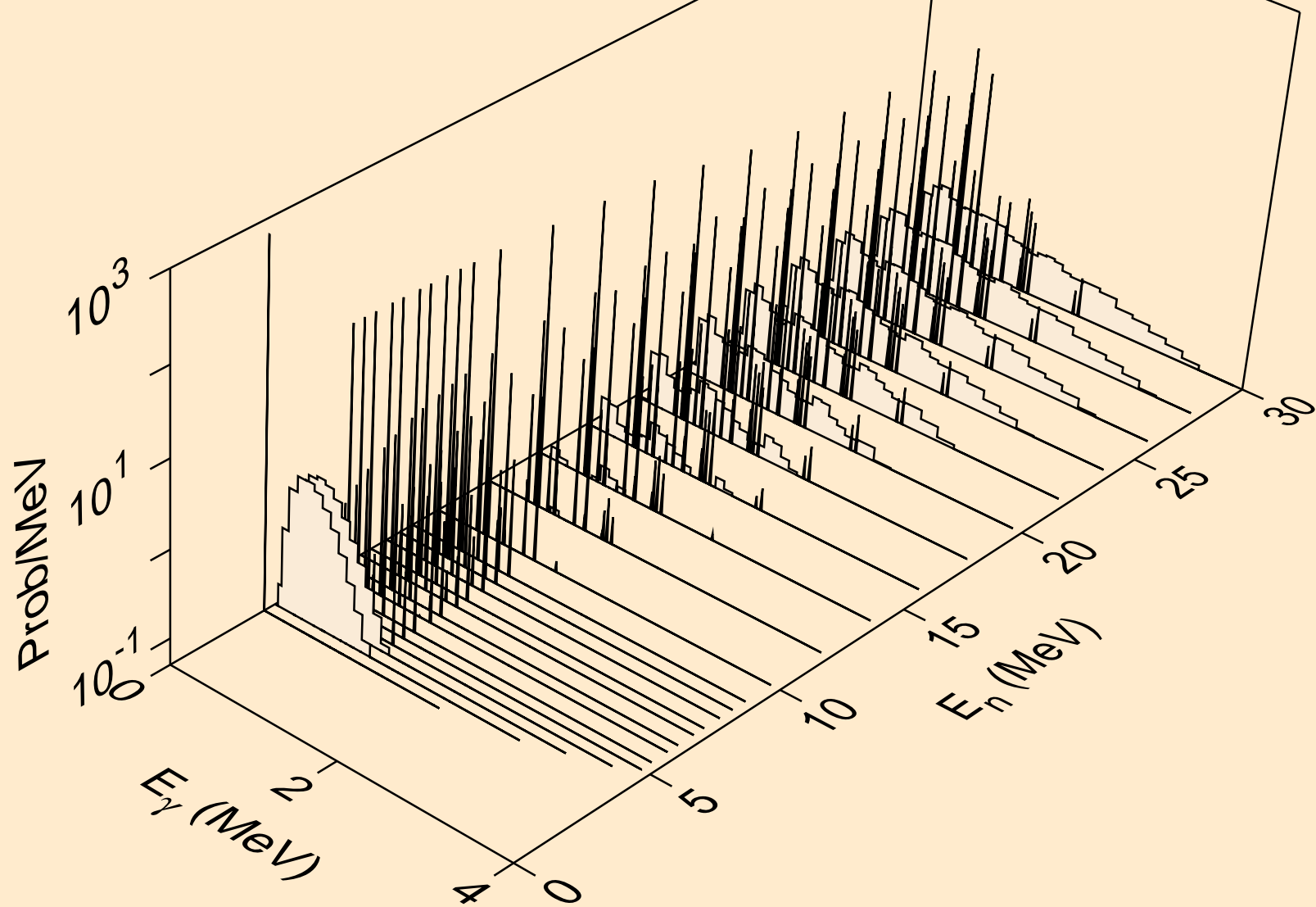
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



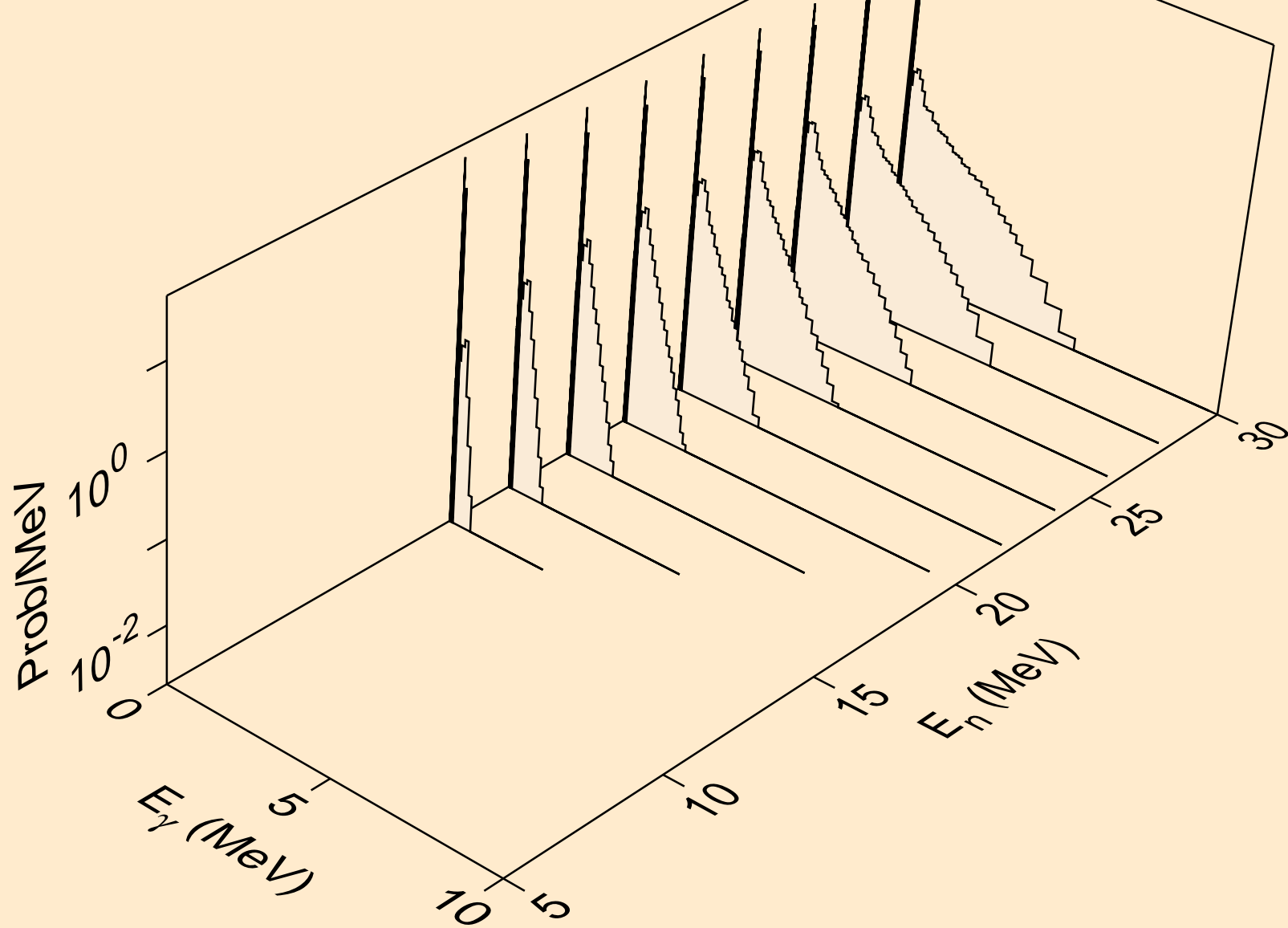
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



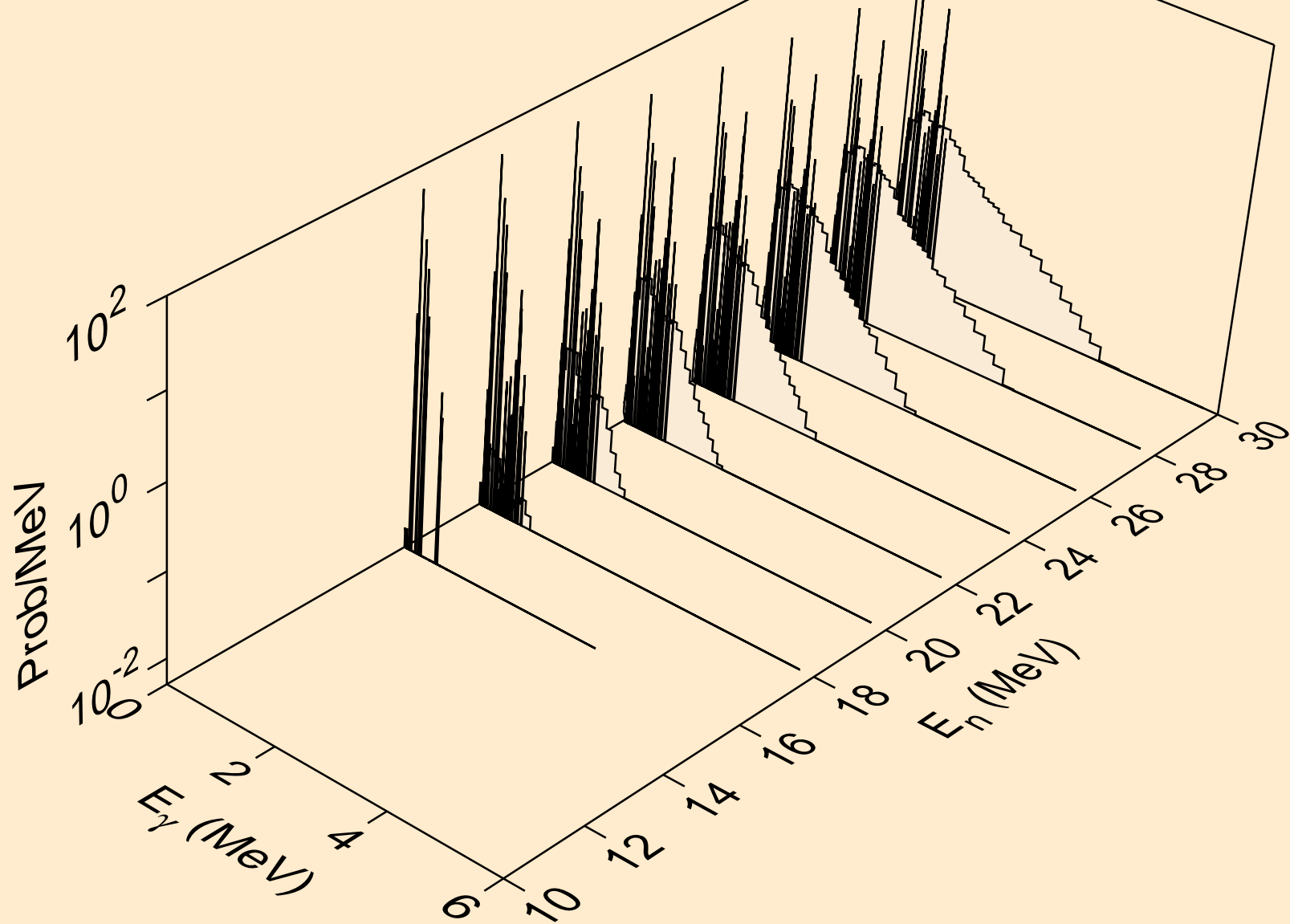
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Photon emission for (n,p)



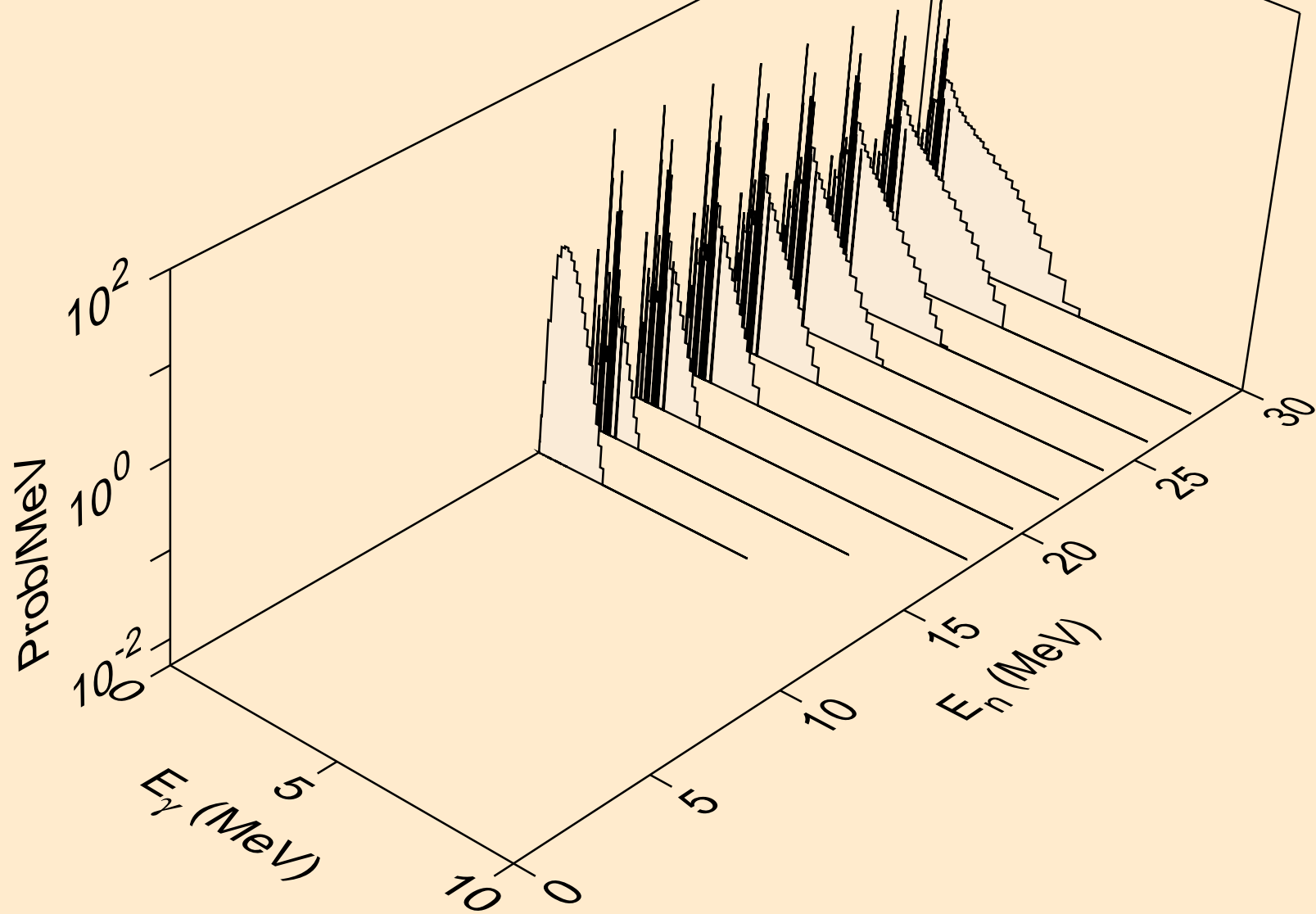
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



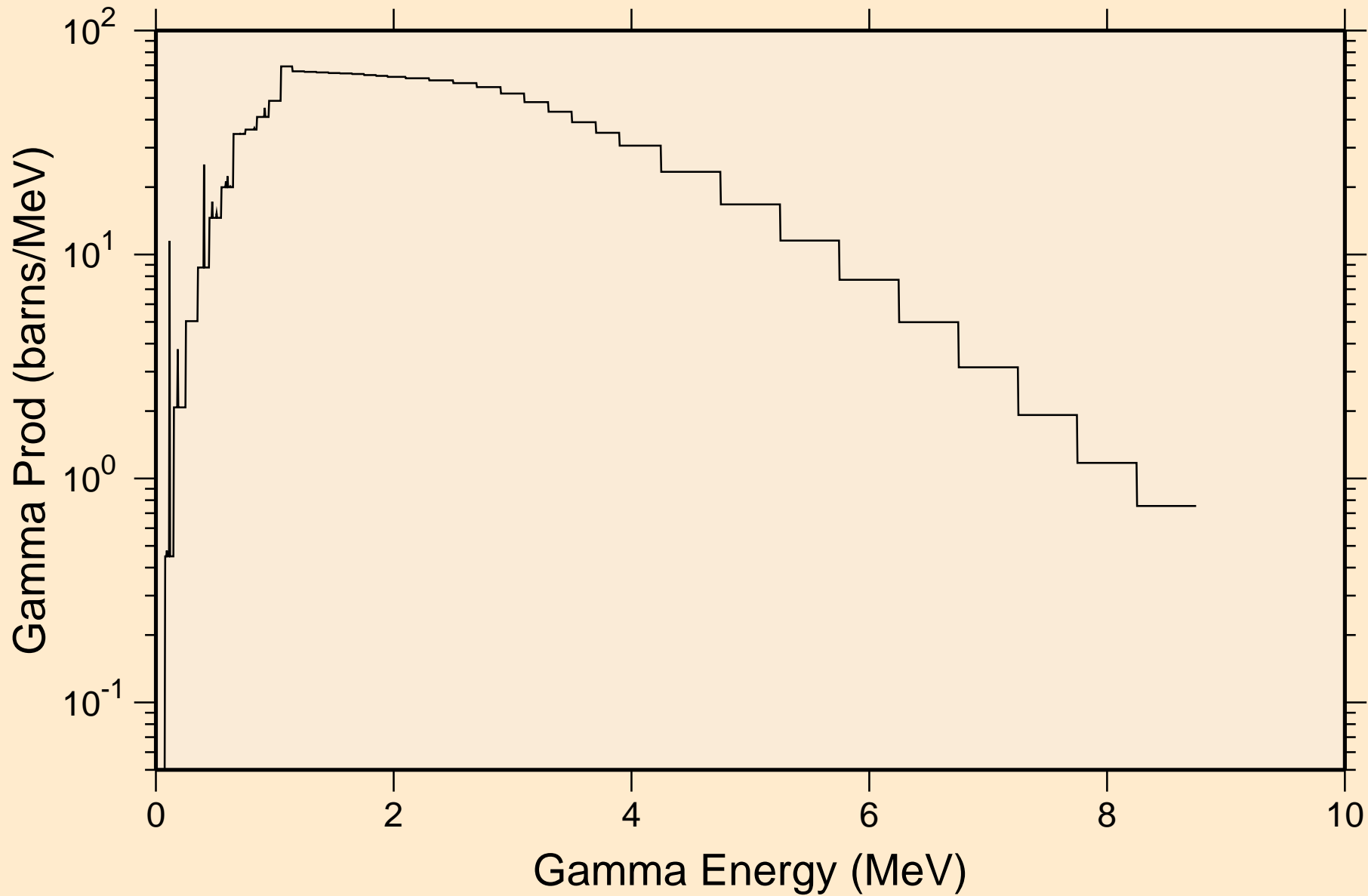
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



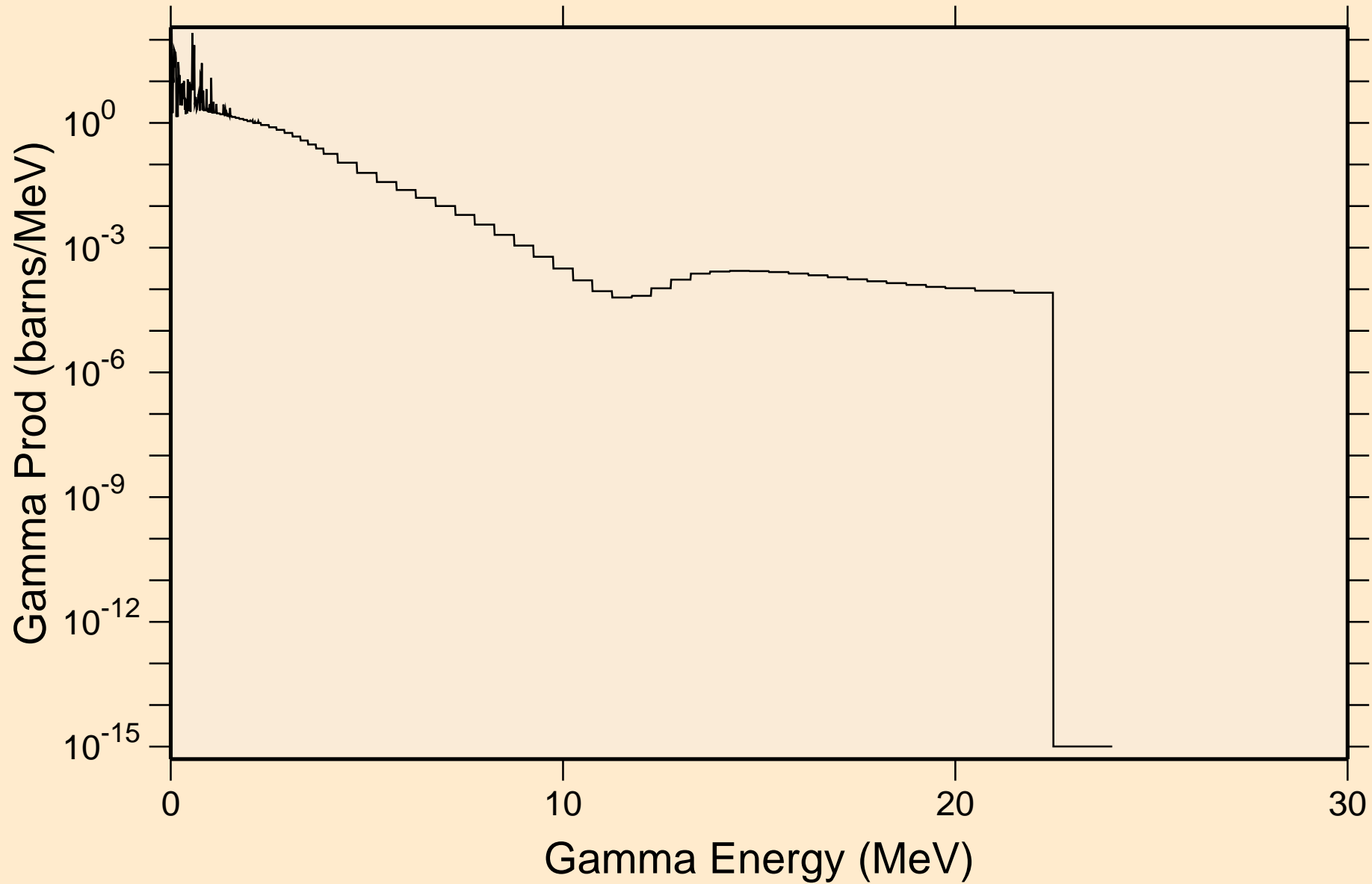
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

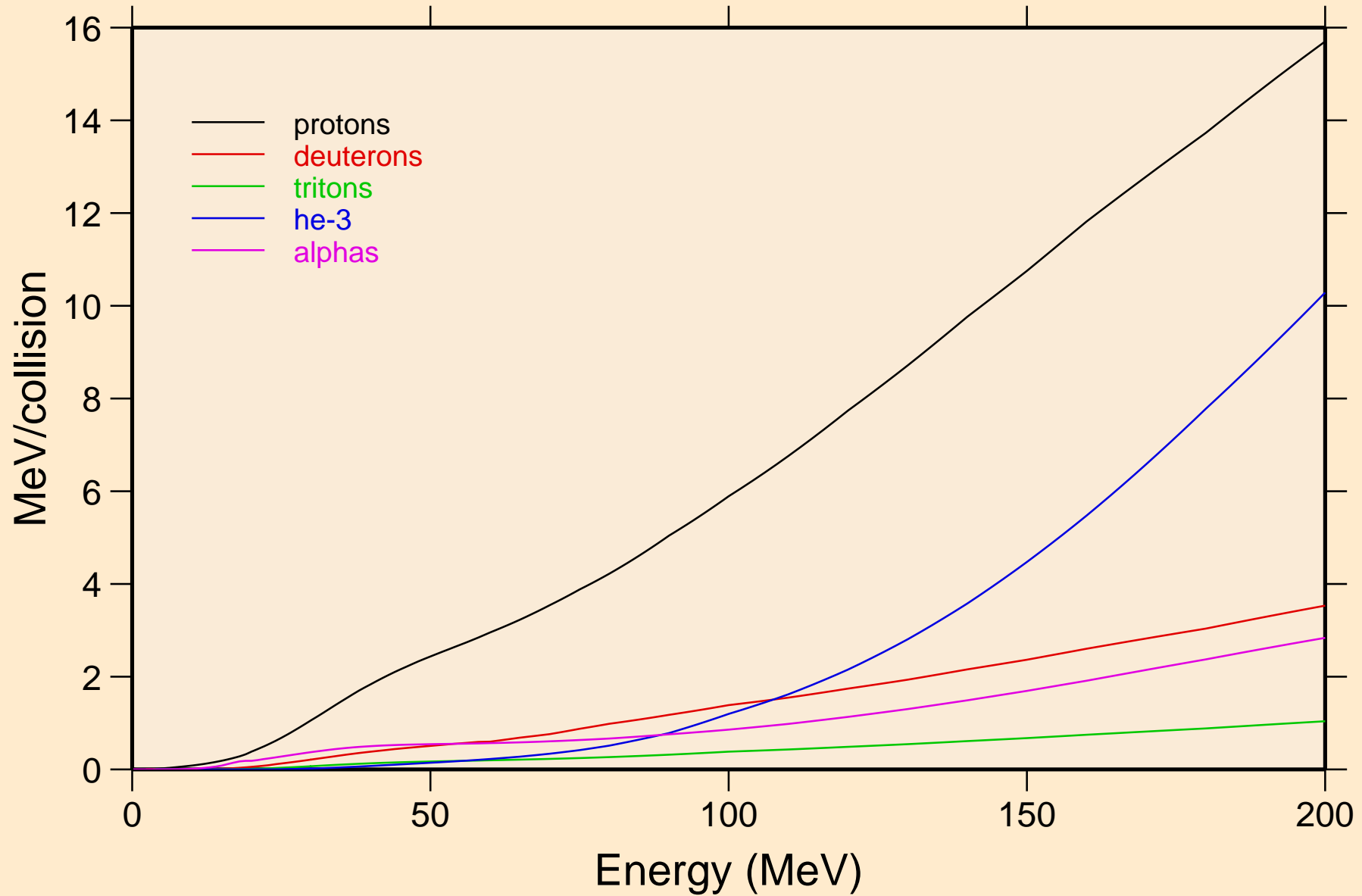


PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

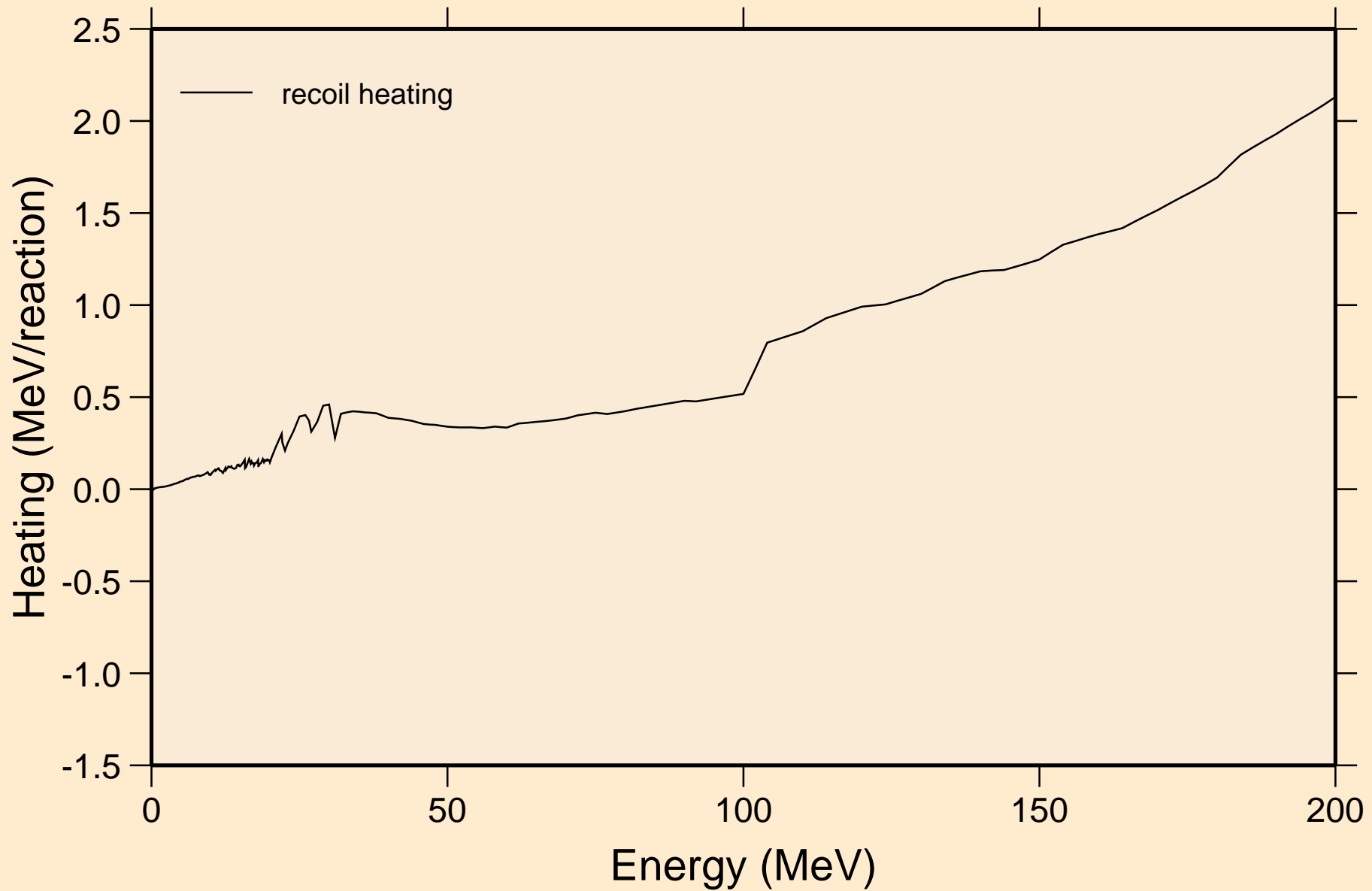


# PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

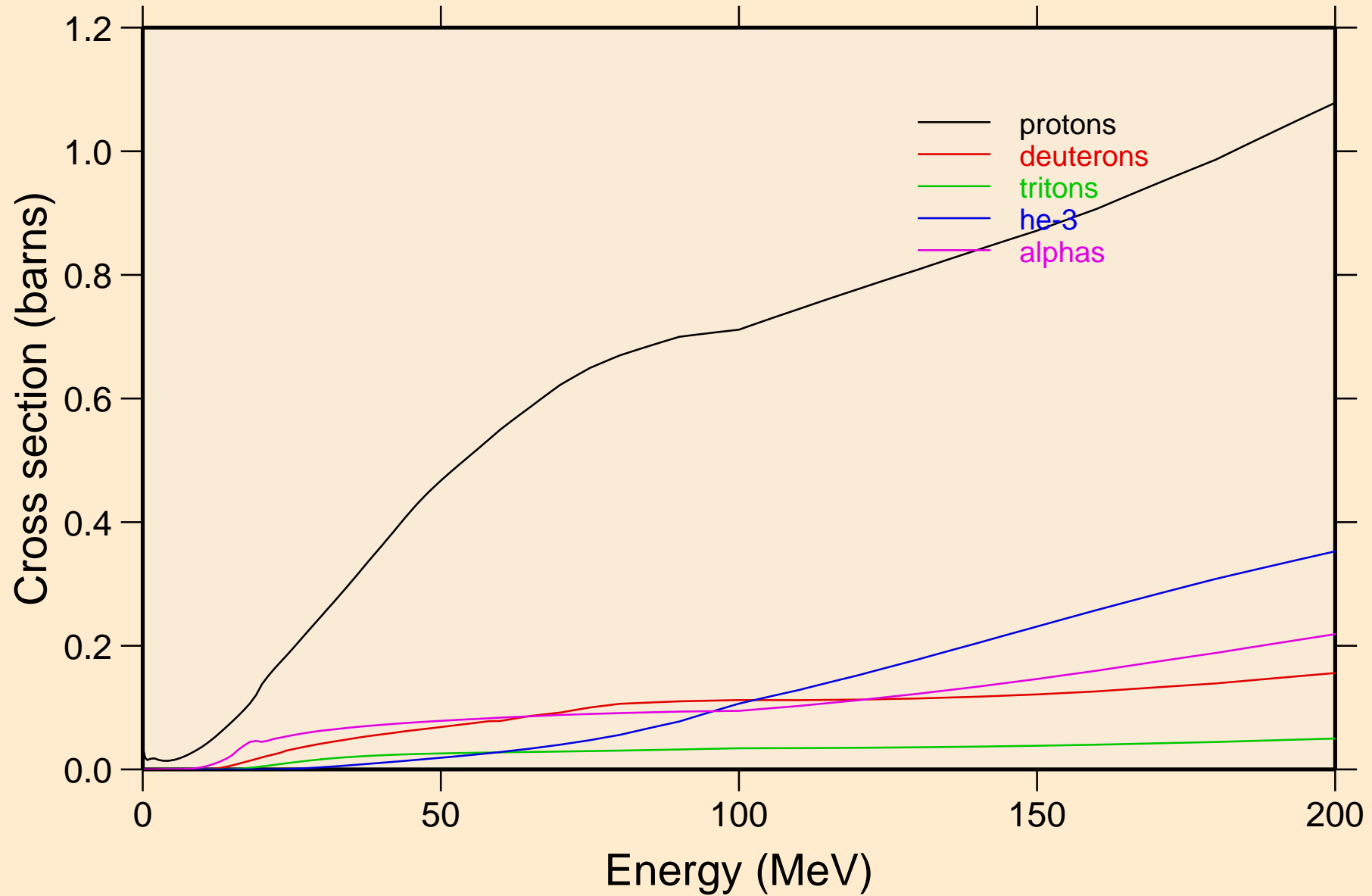
## Particle heating contributions



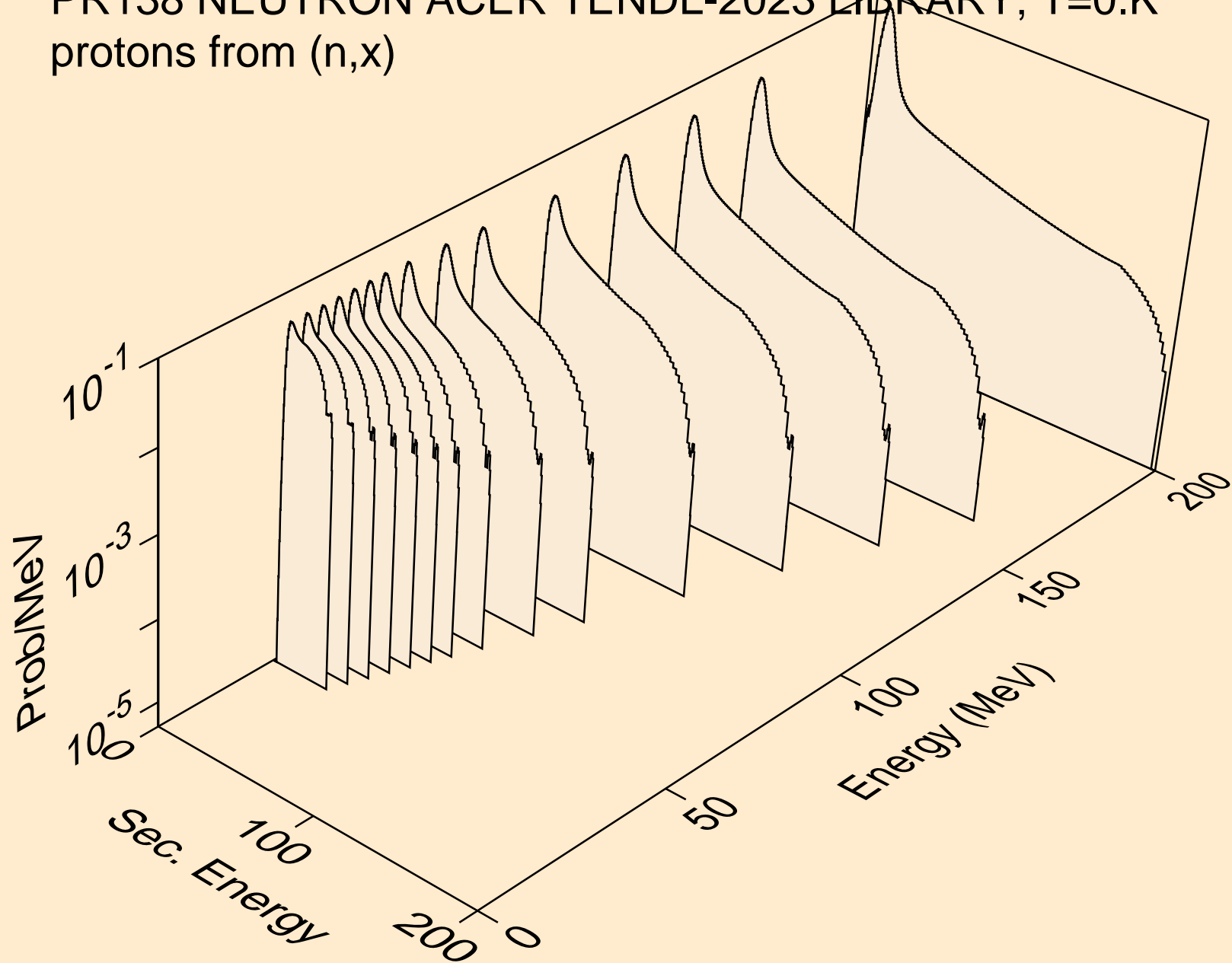
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating



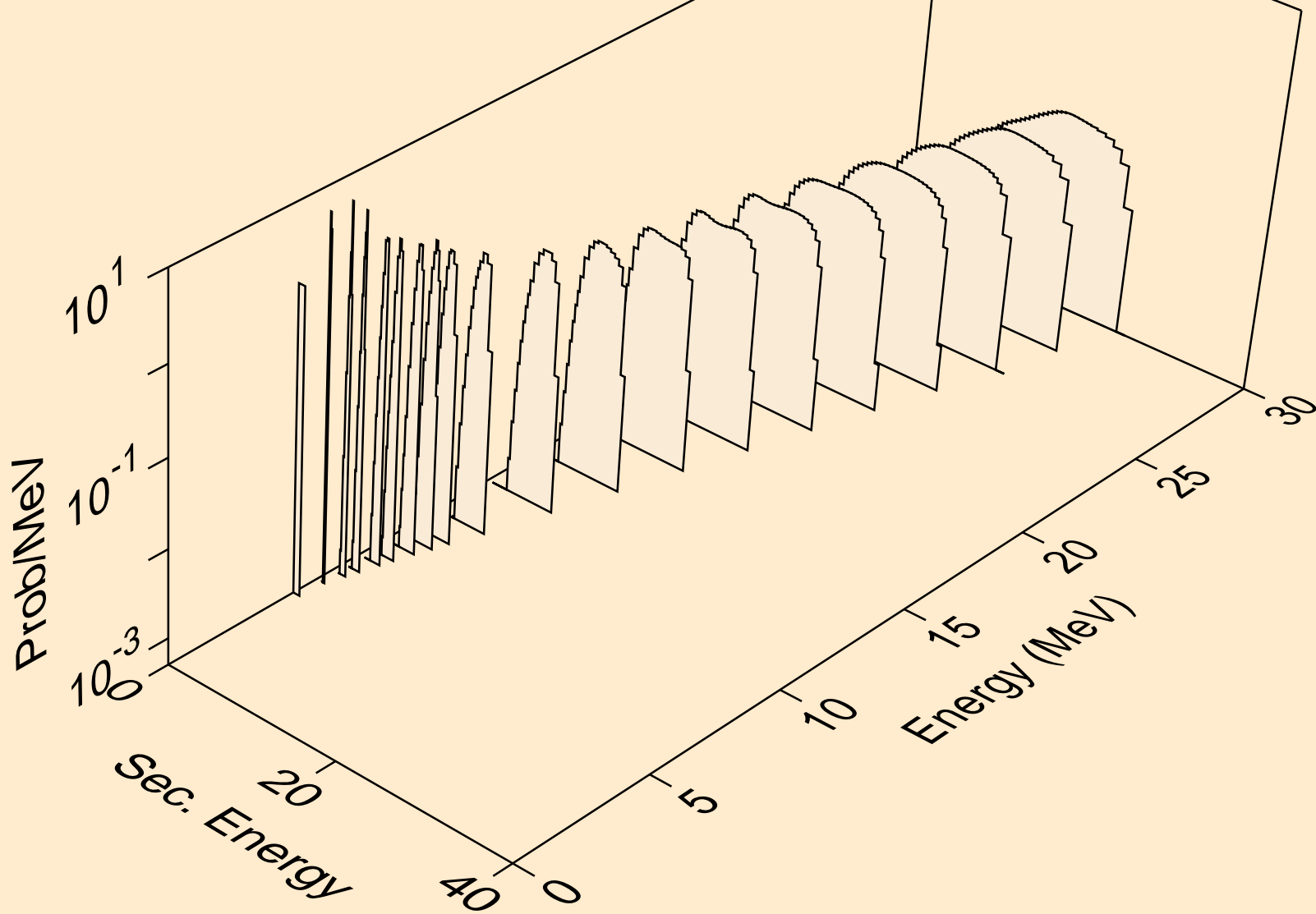
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



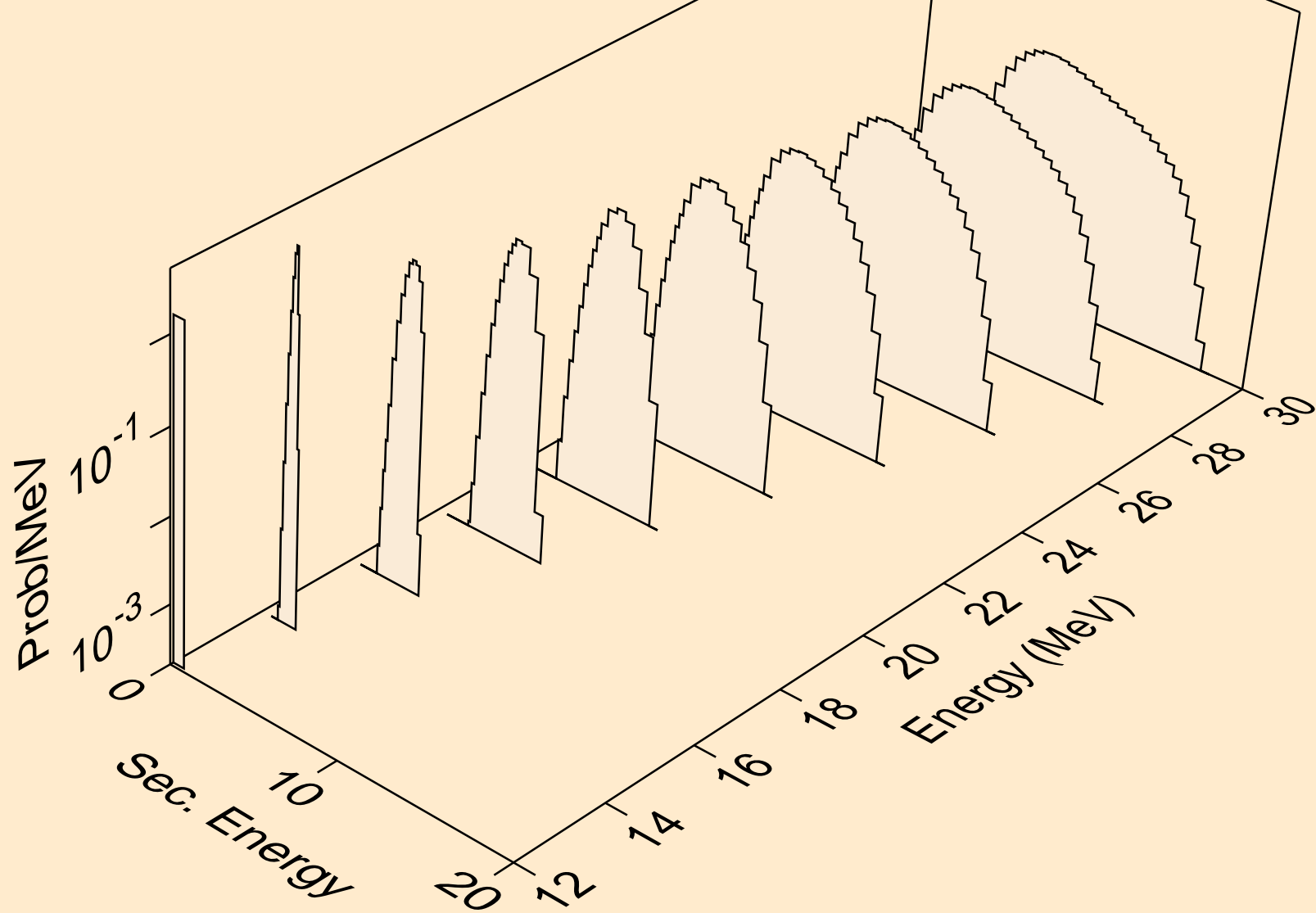
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



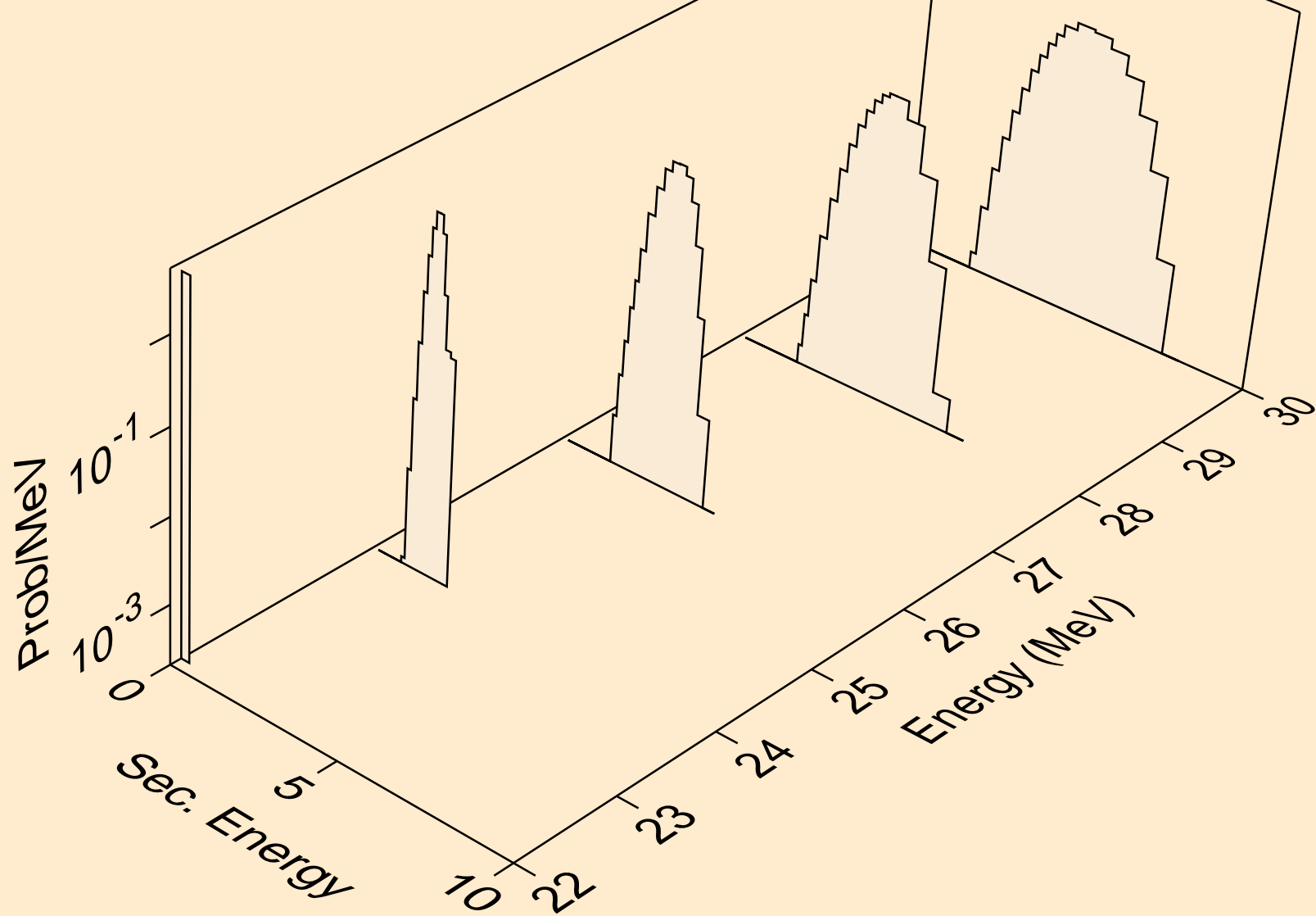
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



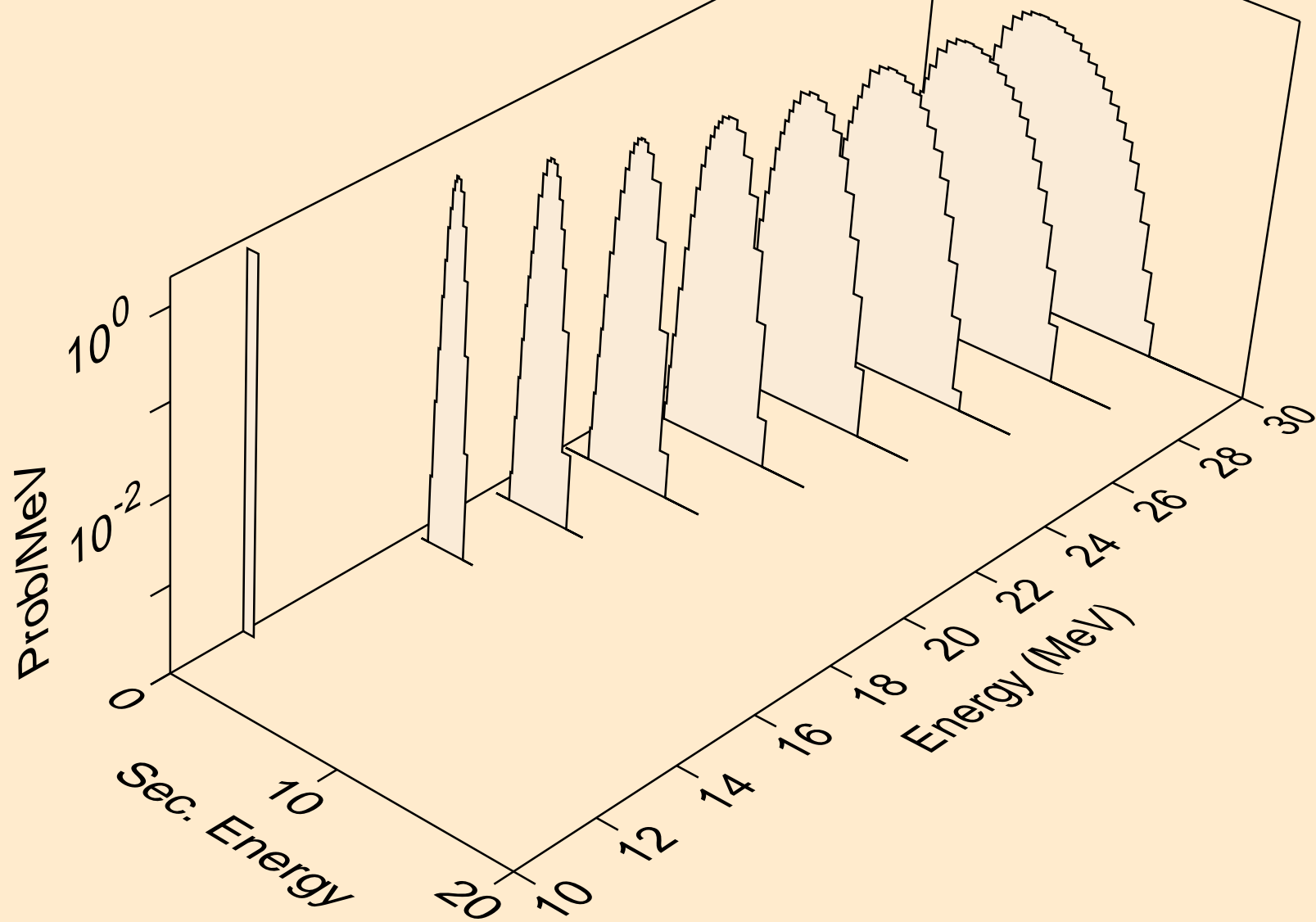
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protons from (n,2np)



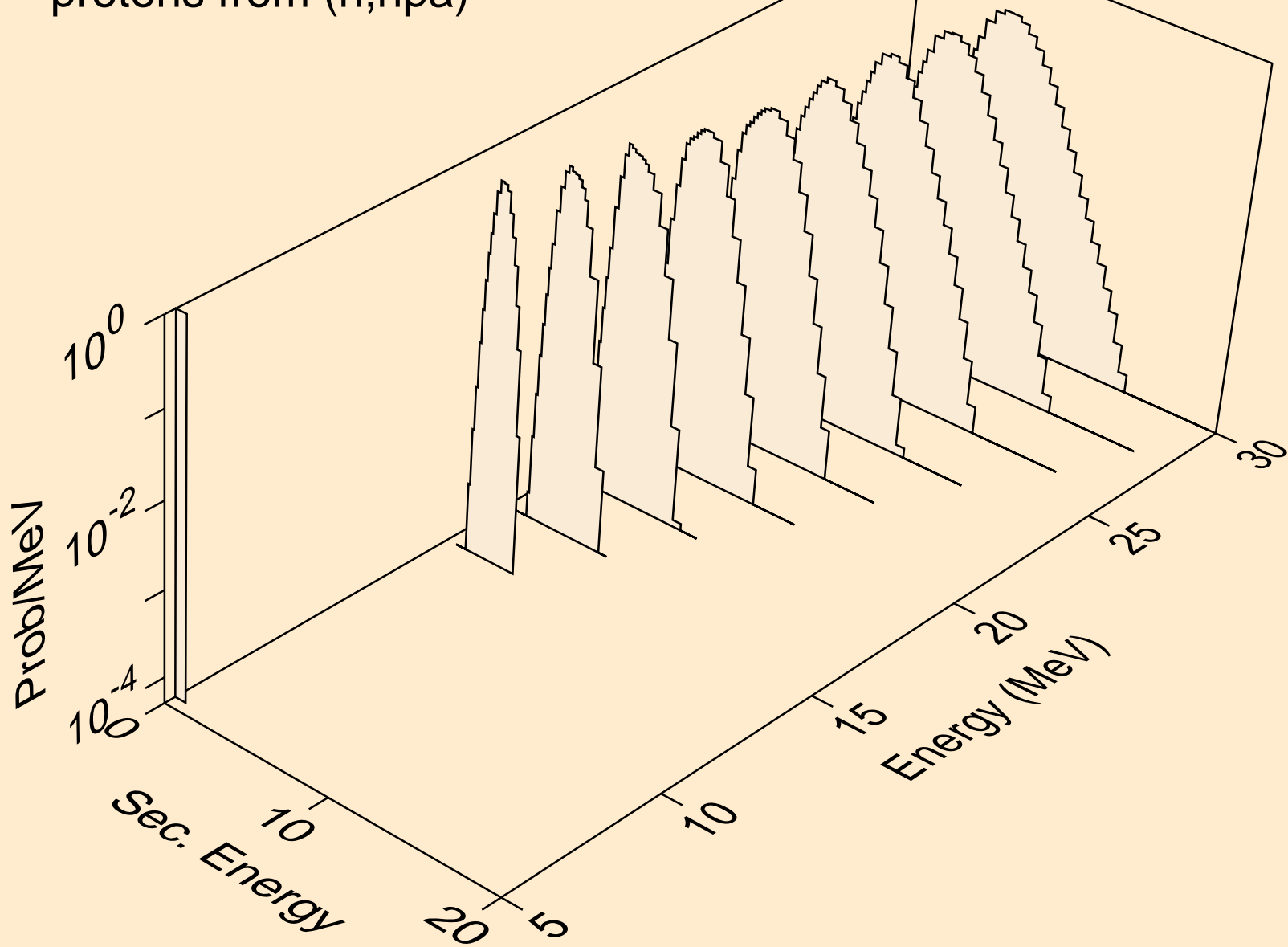
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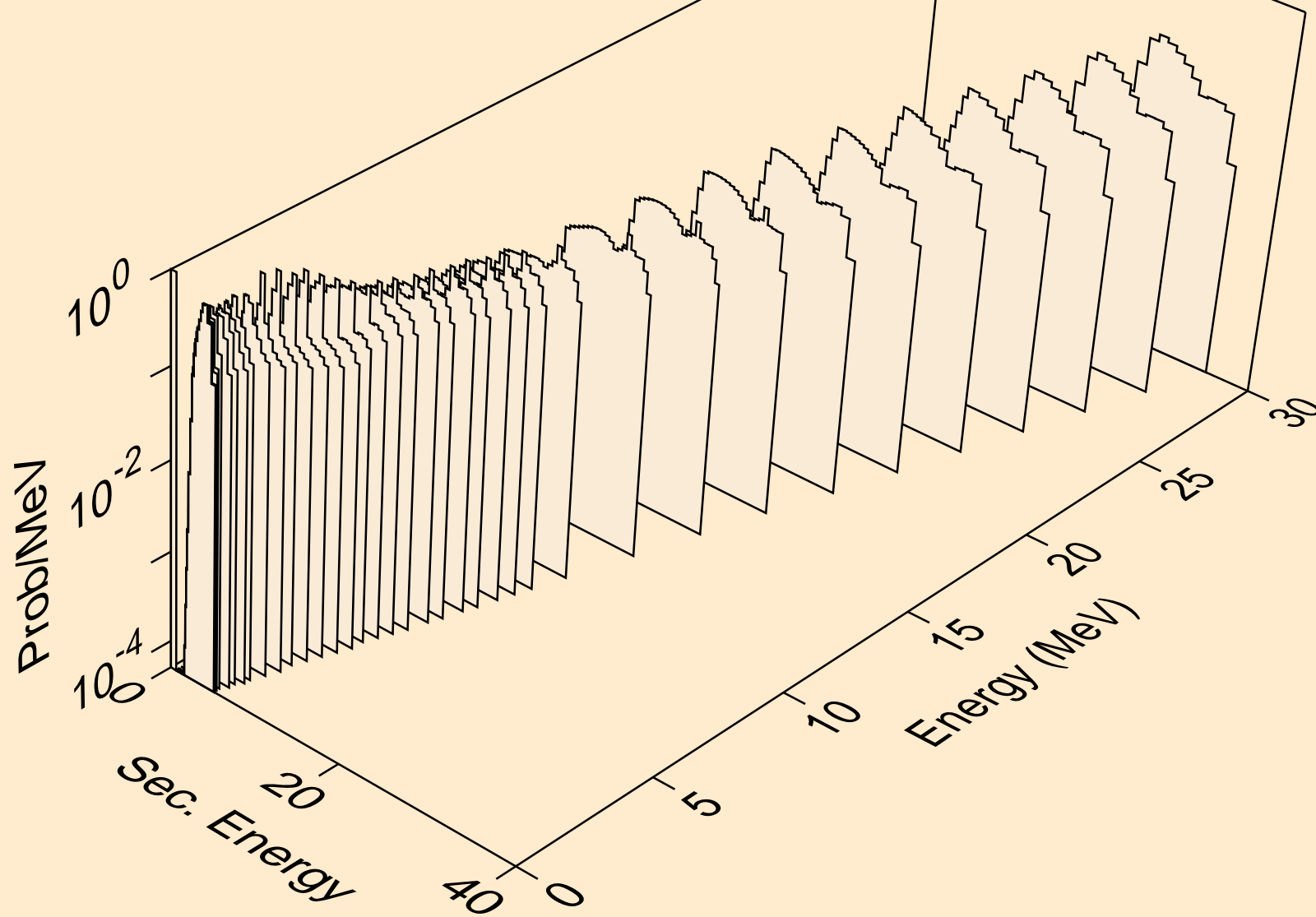
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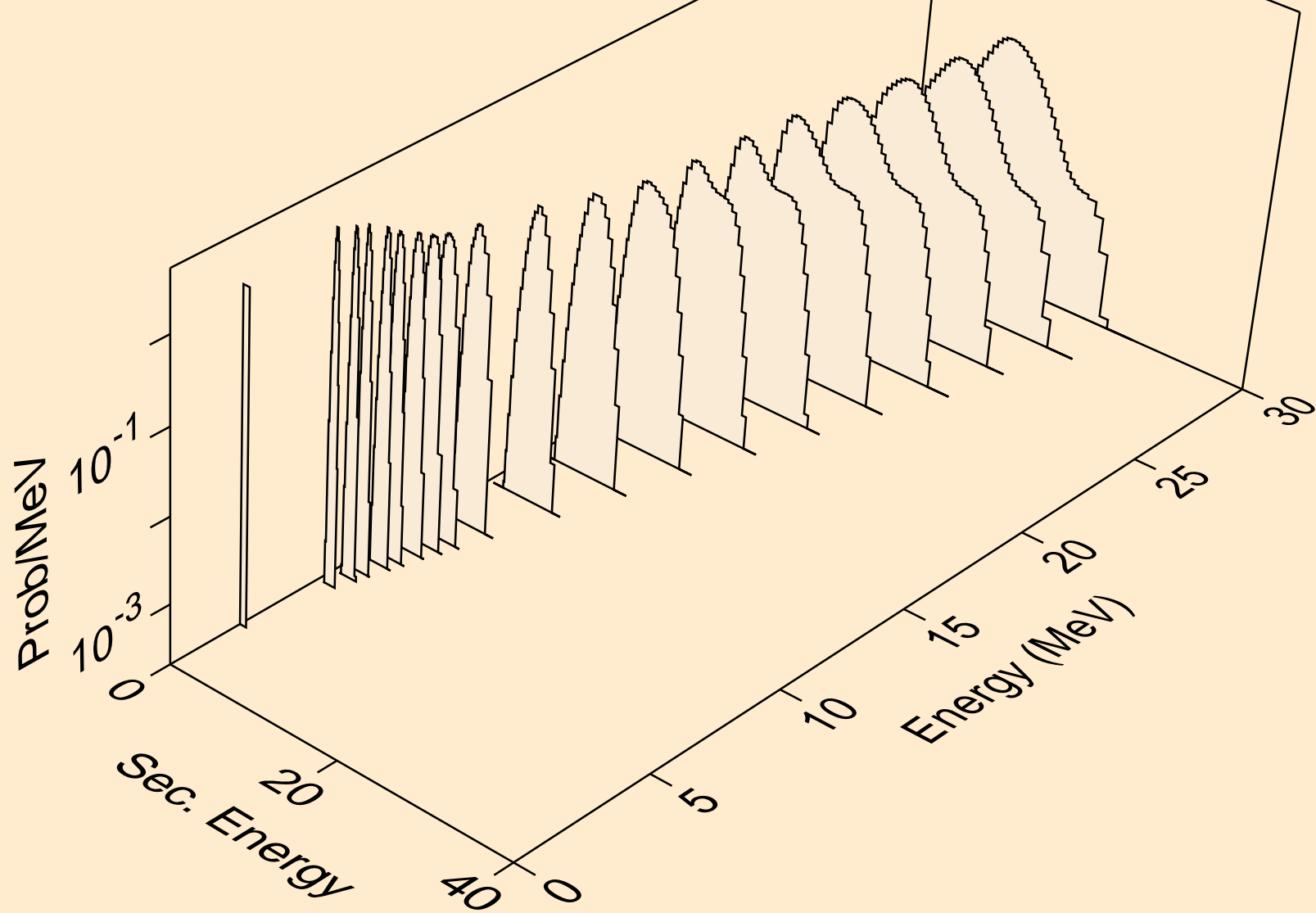
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protons from (n,npa)



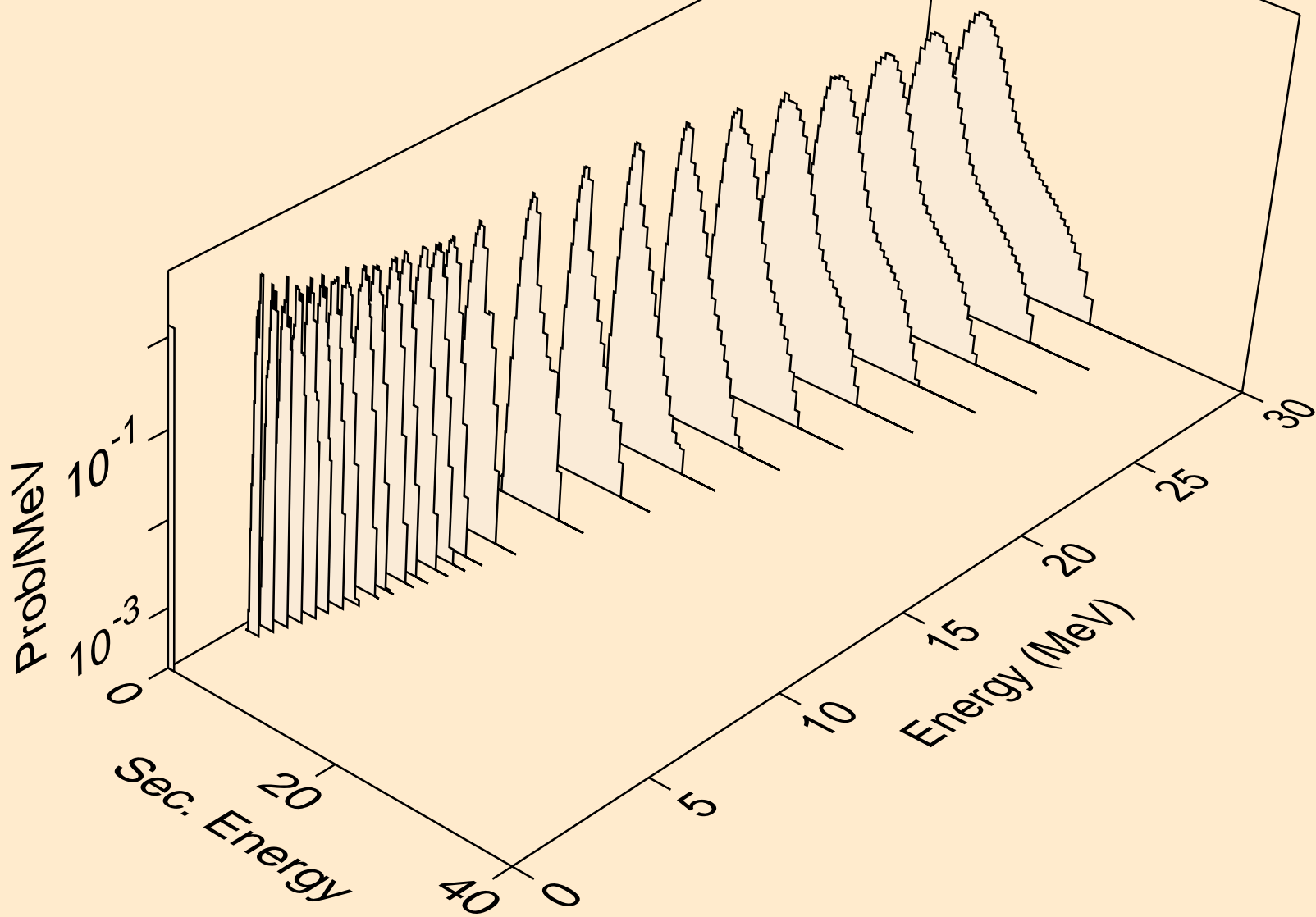
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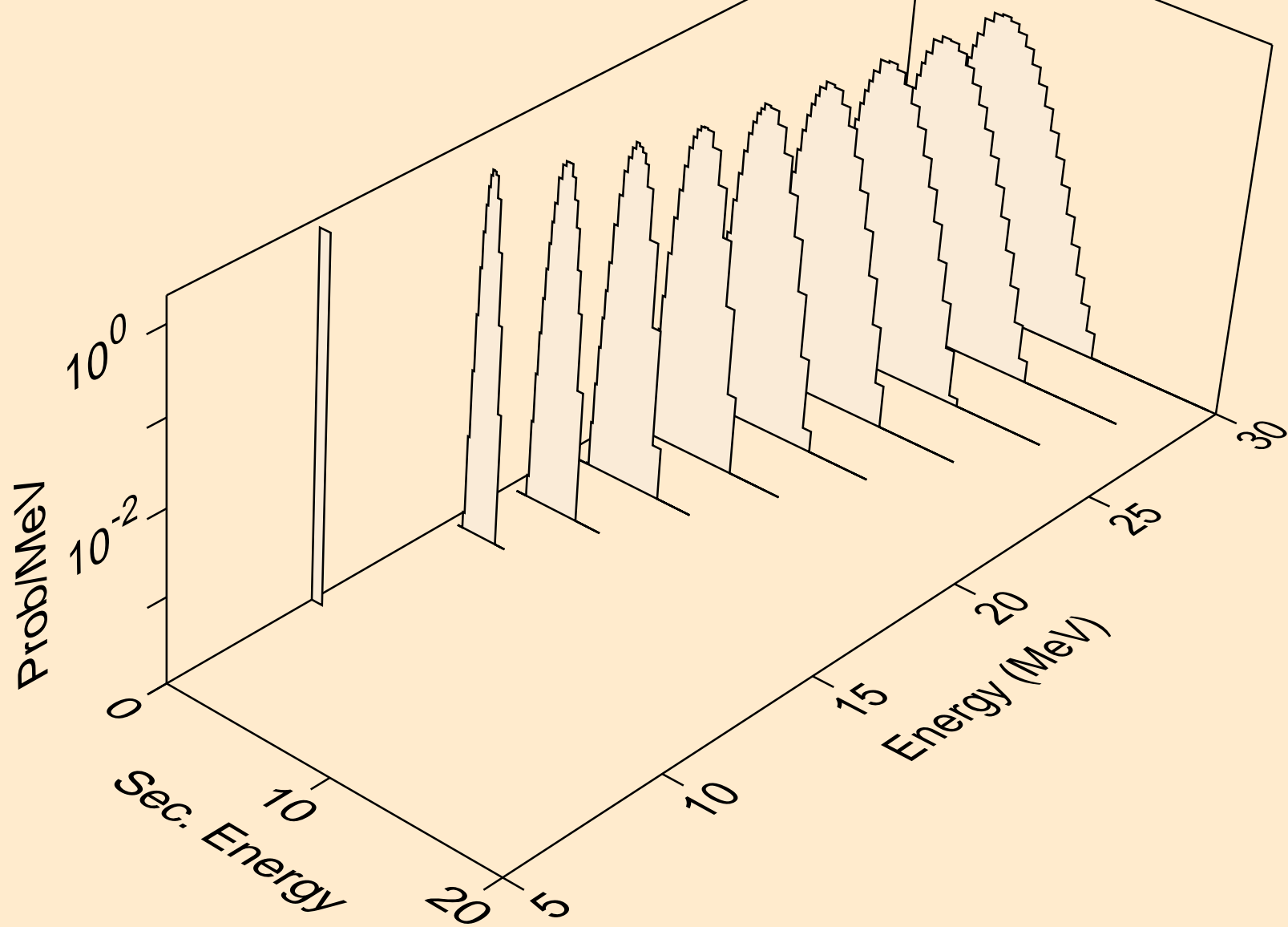
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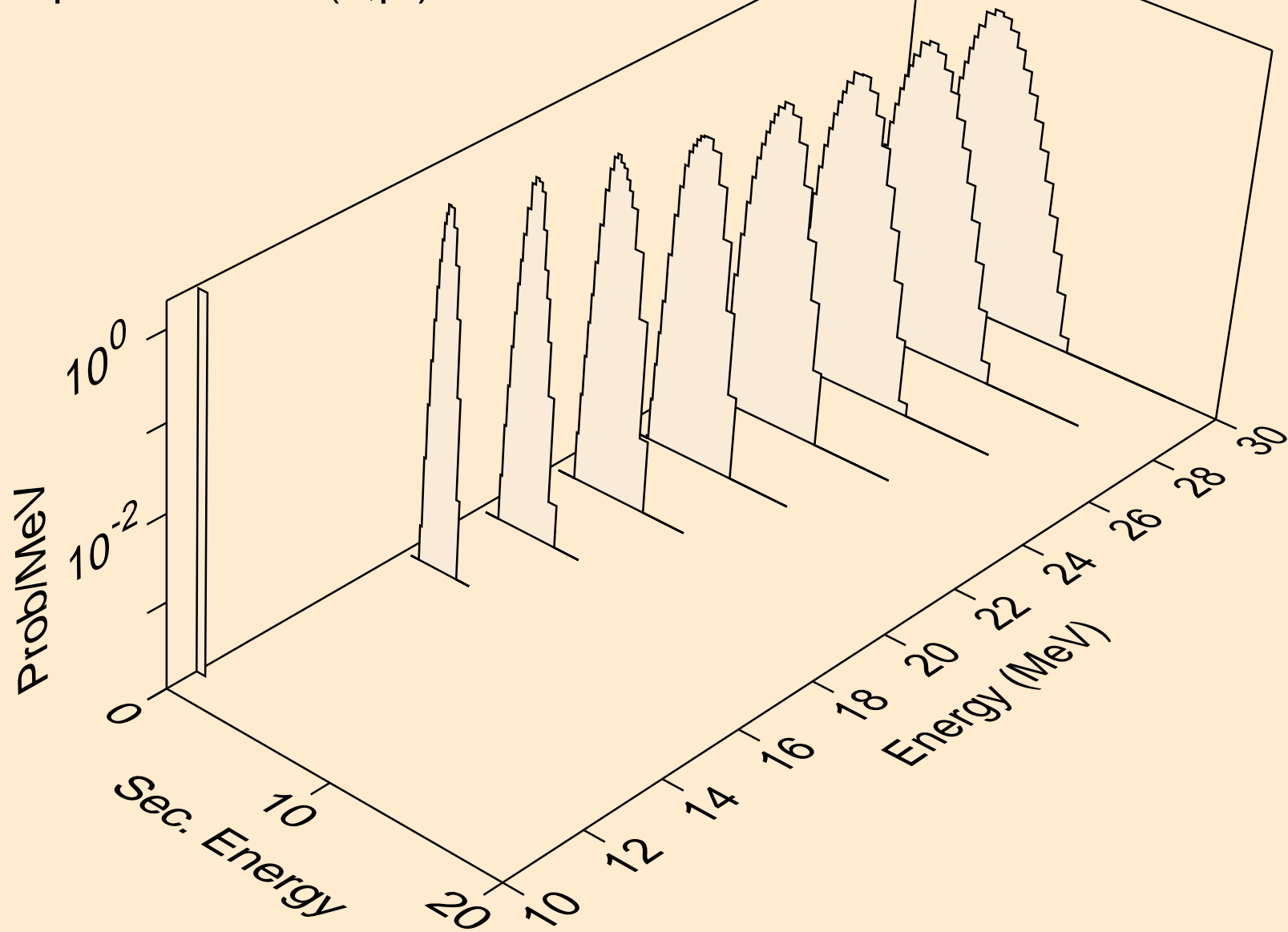
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protons from (n,p)



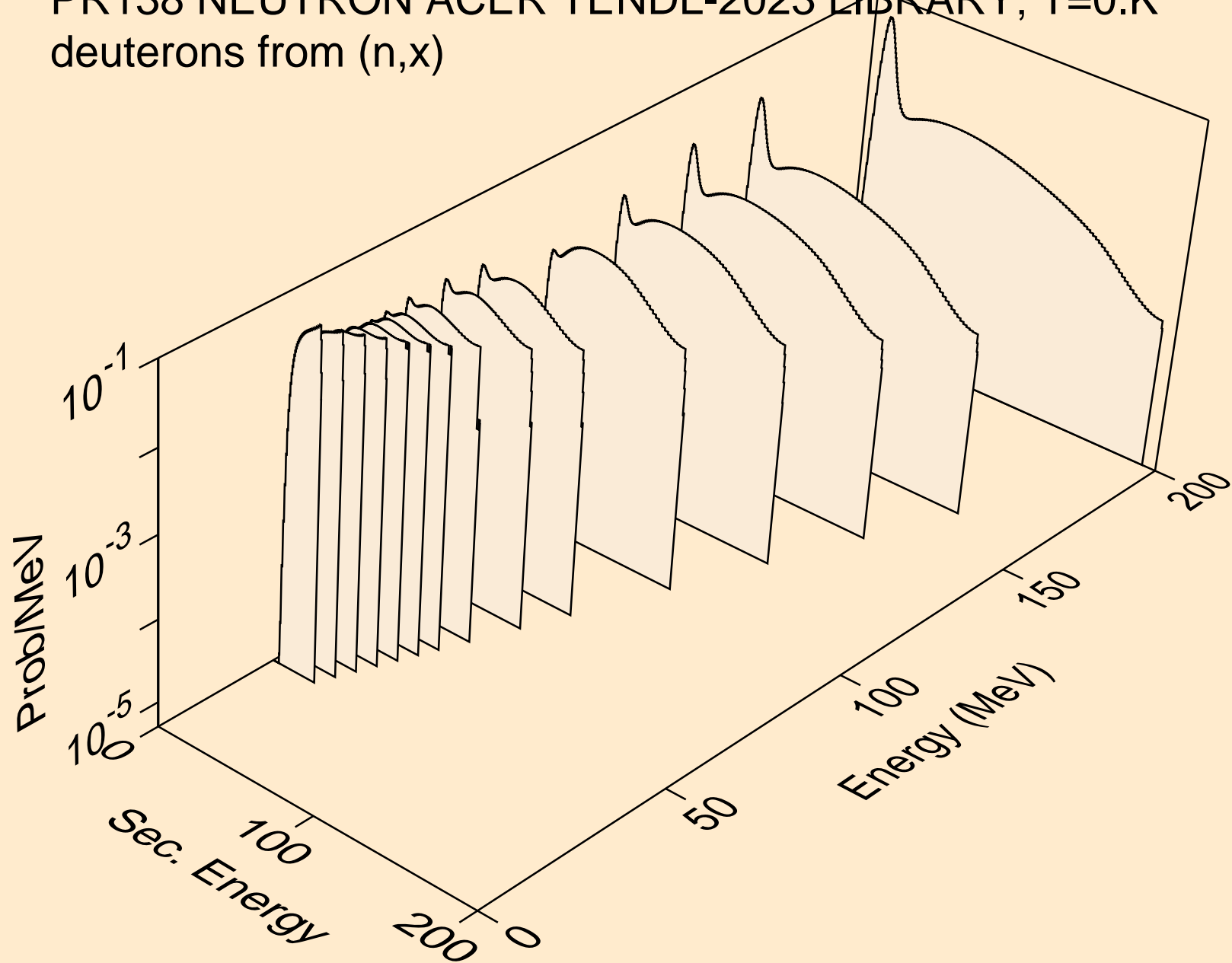
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protons from (n,pd)



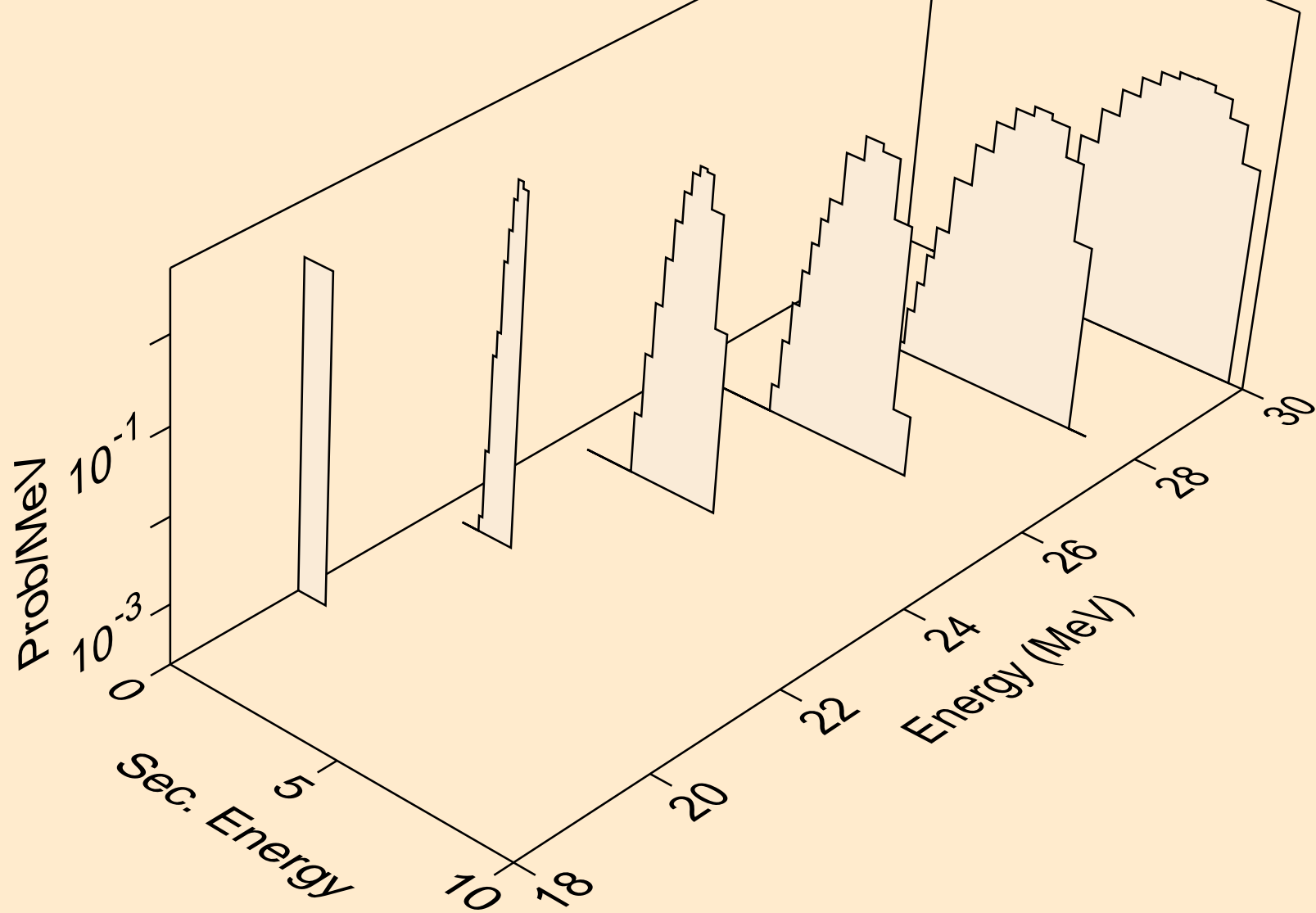
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protons from (n,pt)



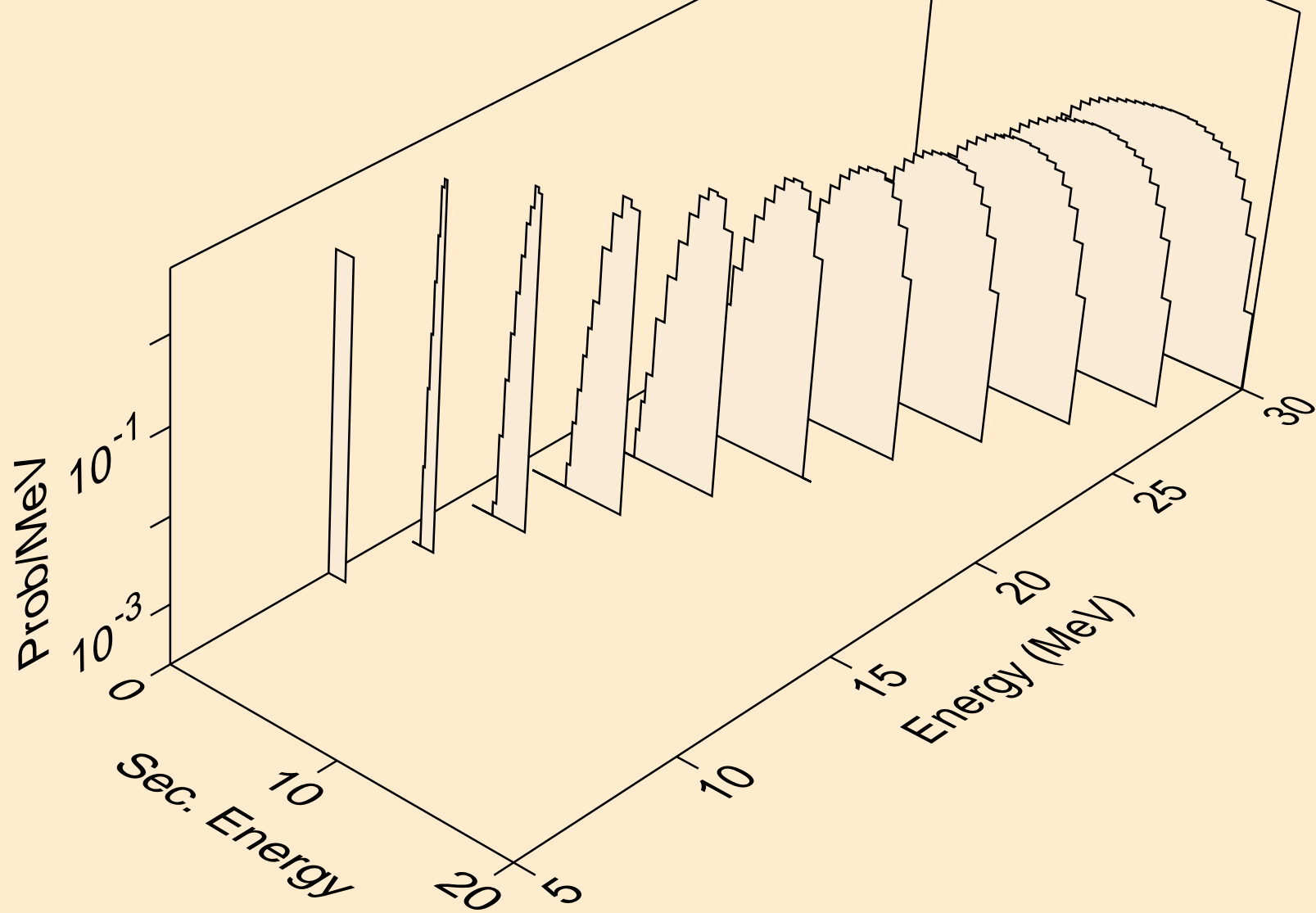
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)



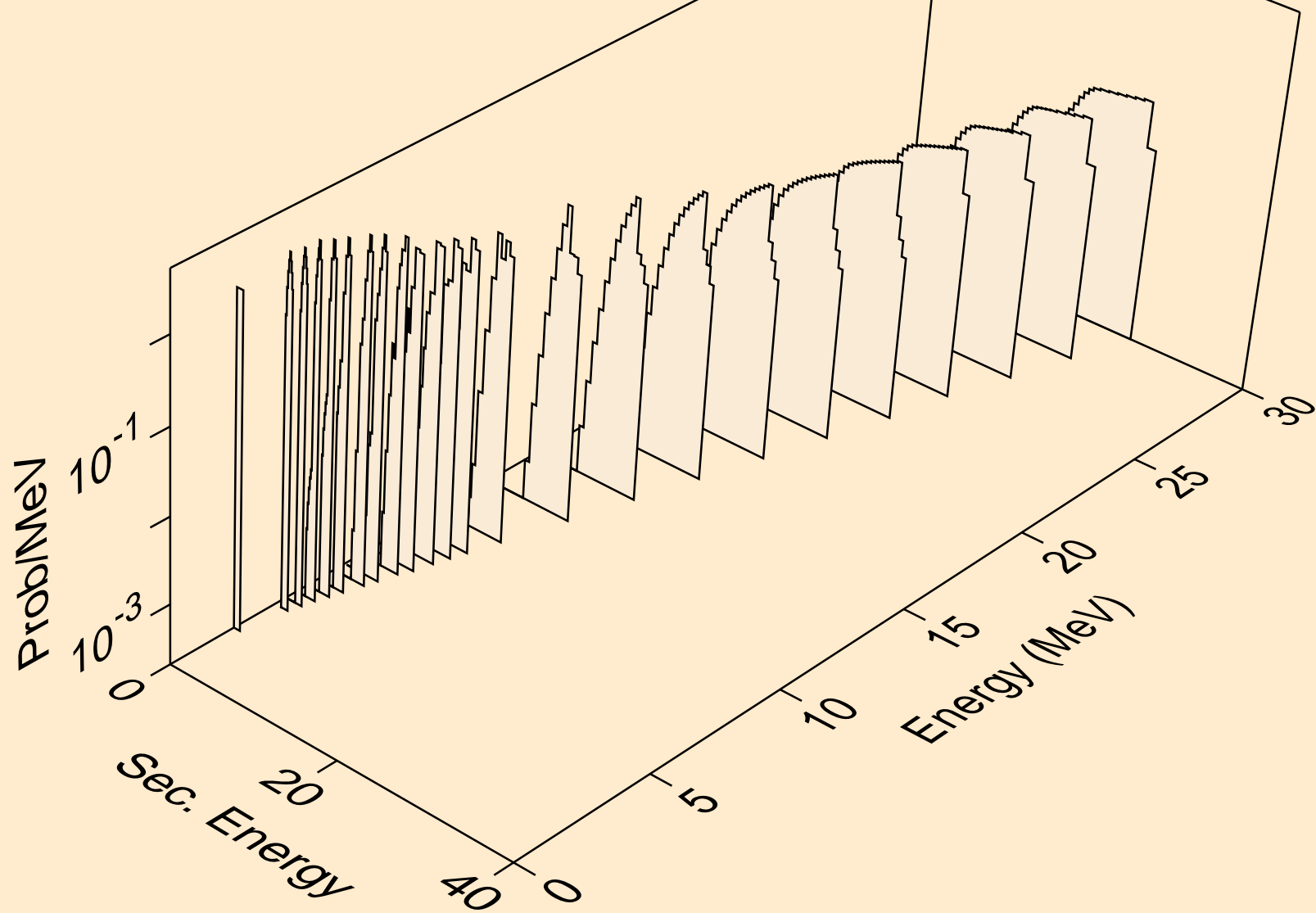
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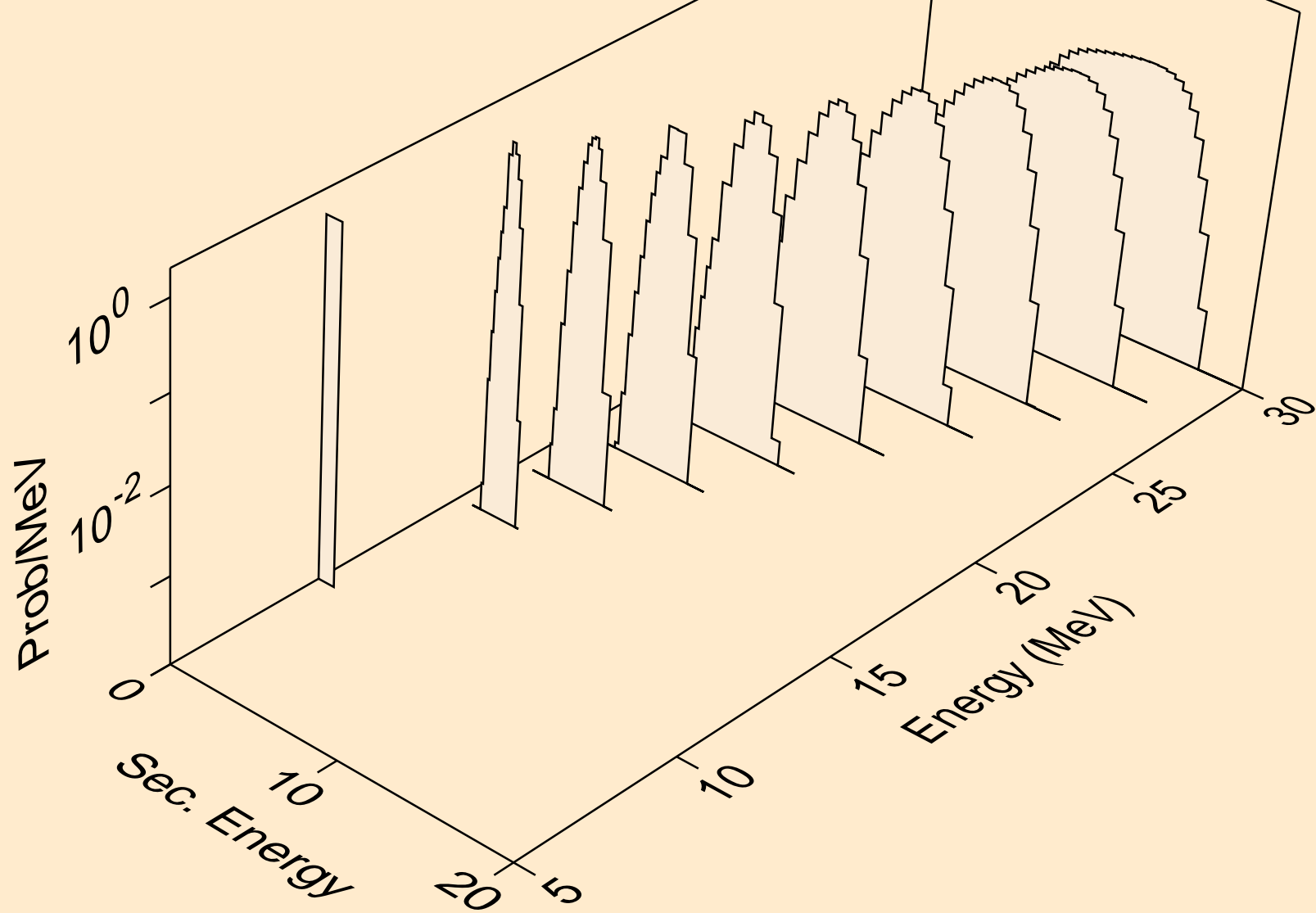
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deuterons from (n,n\*)d



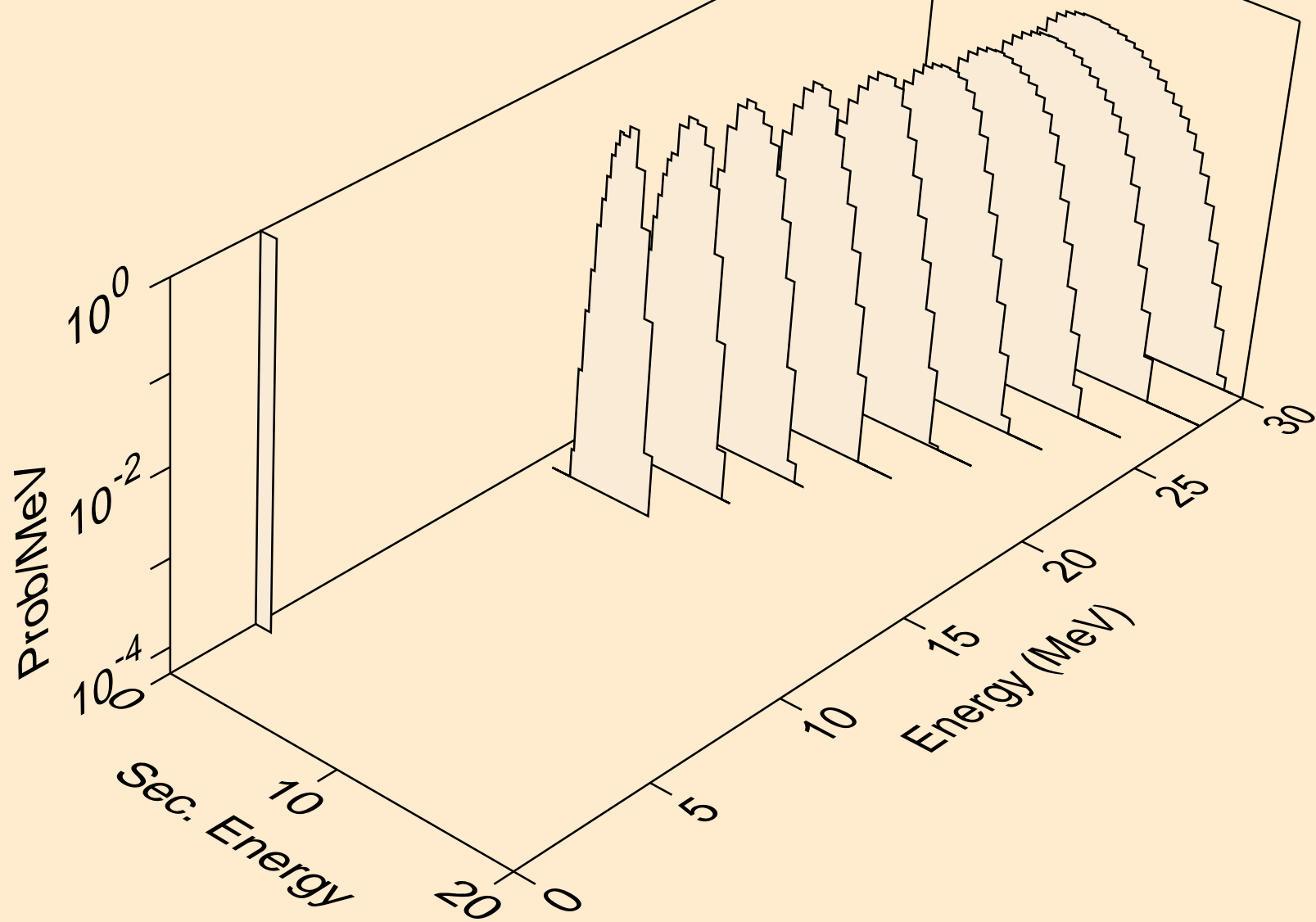
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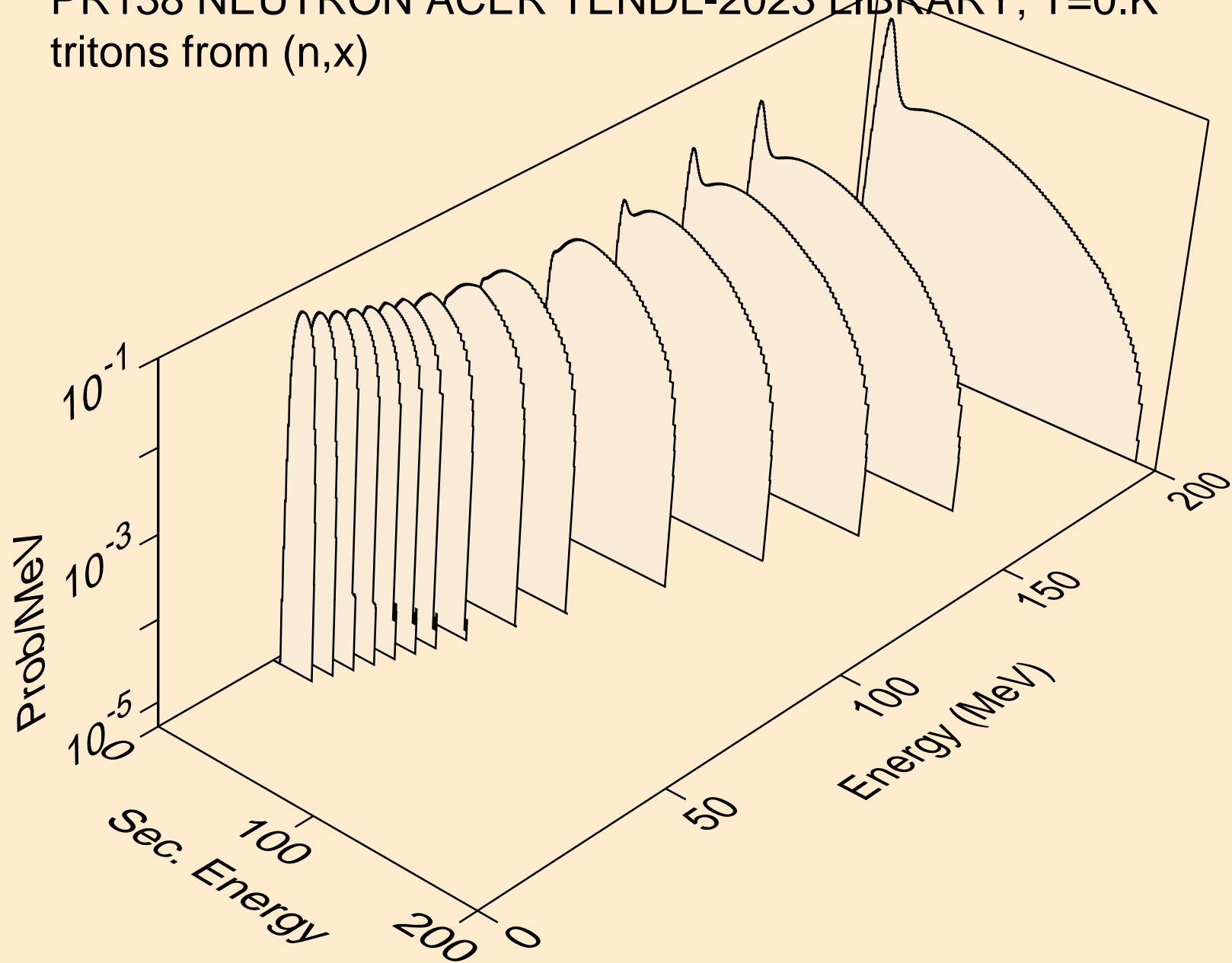
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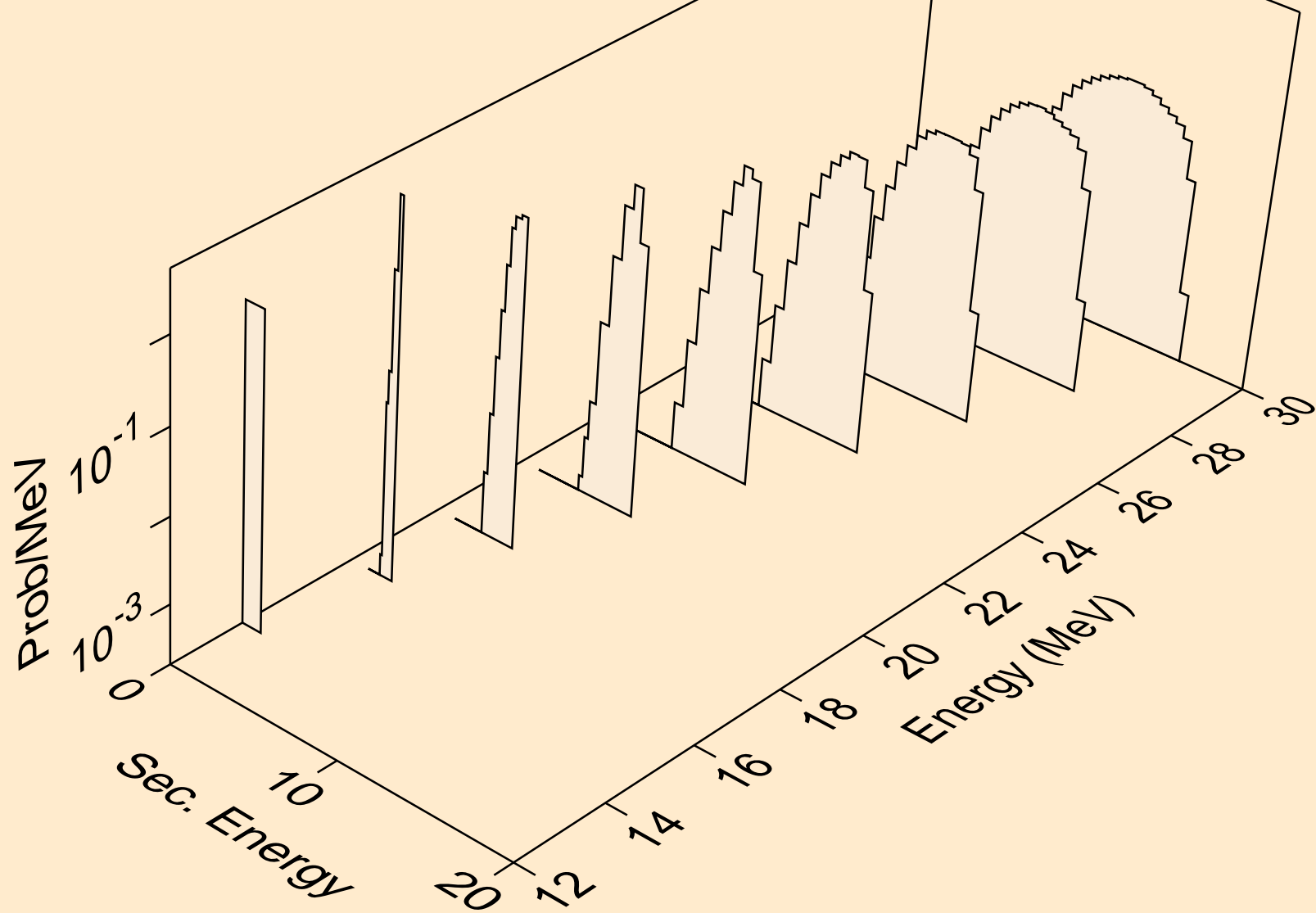
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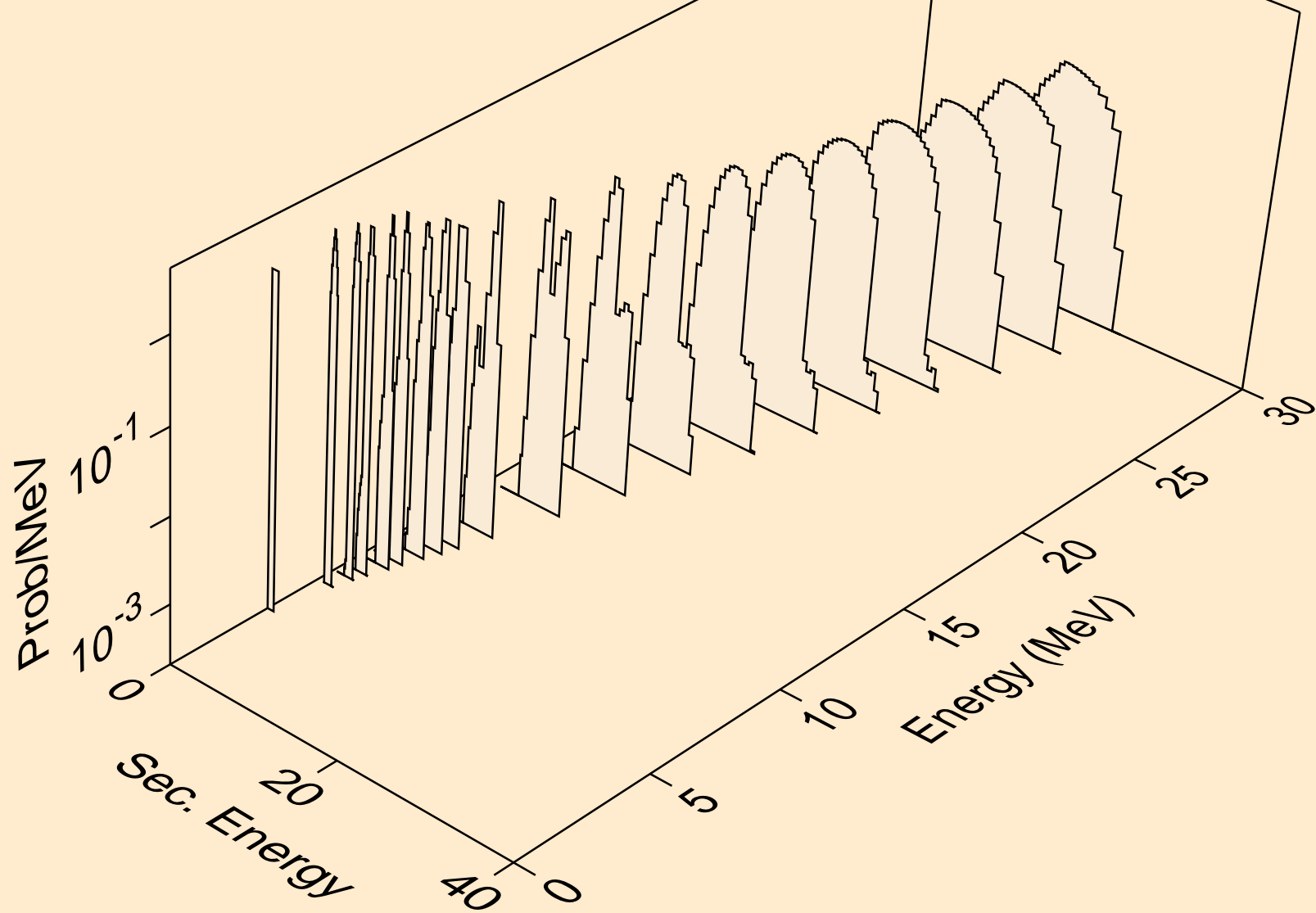
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)



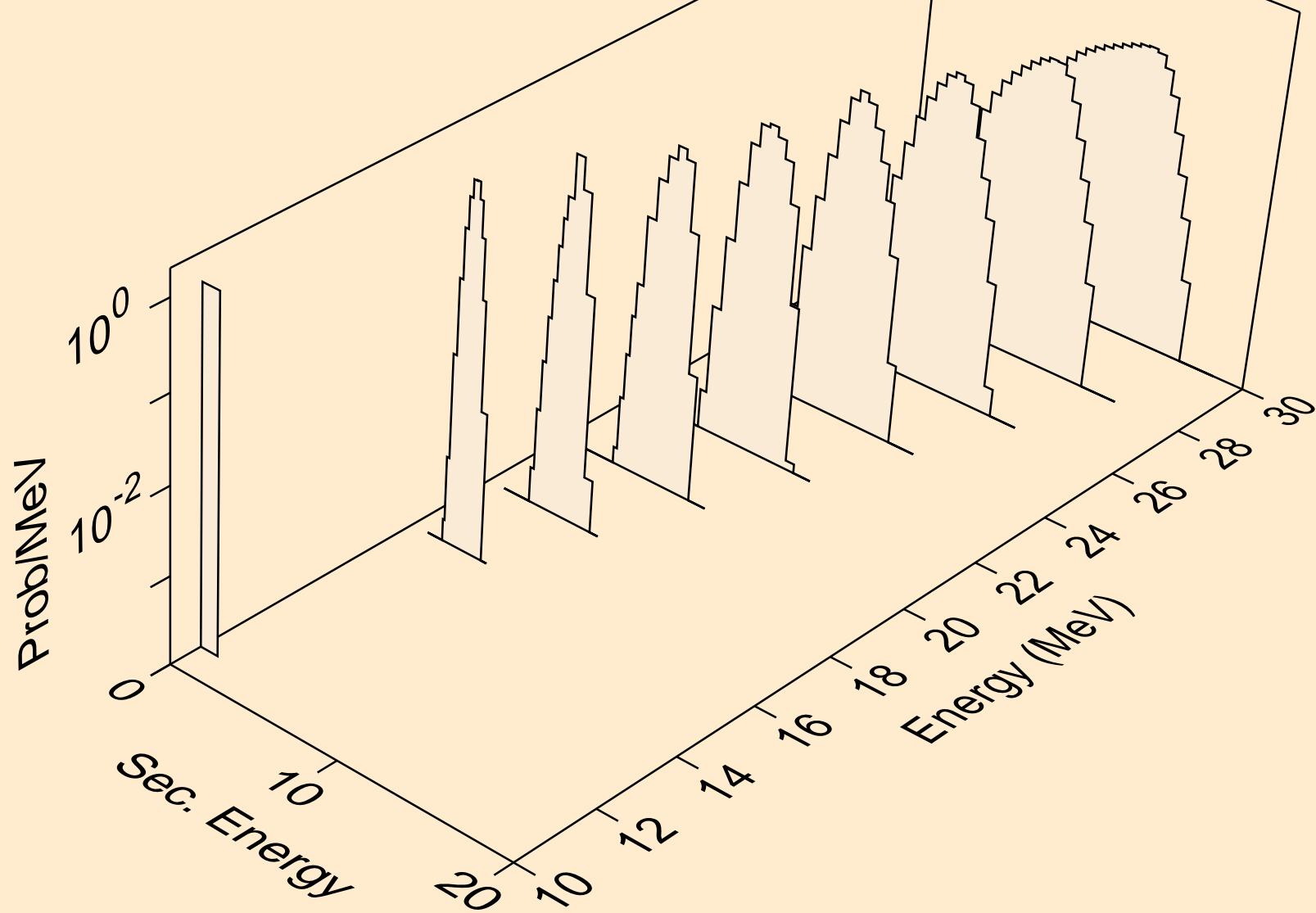
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tritons from (n,n\*)t



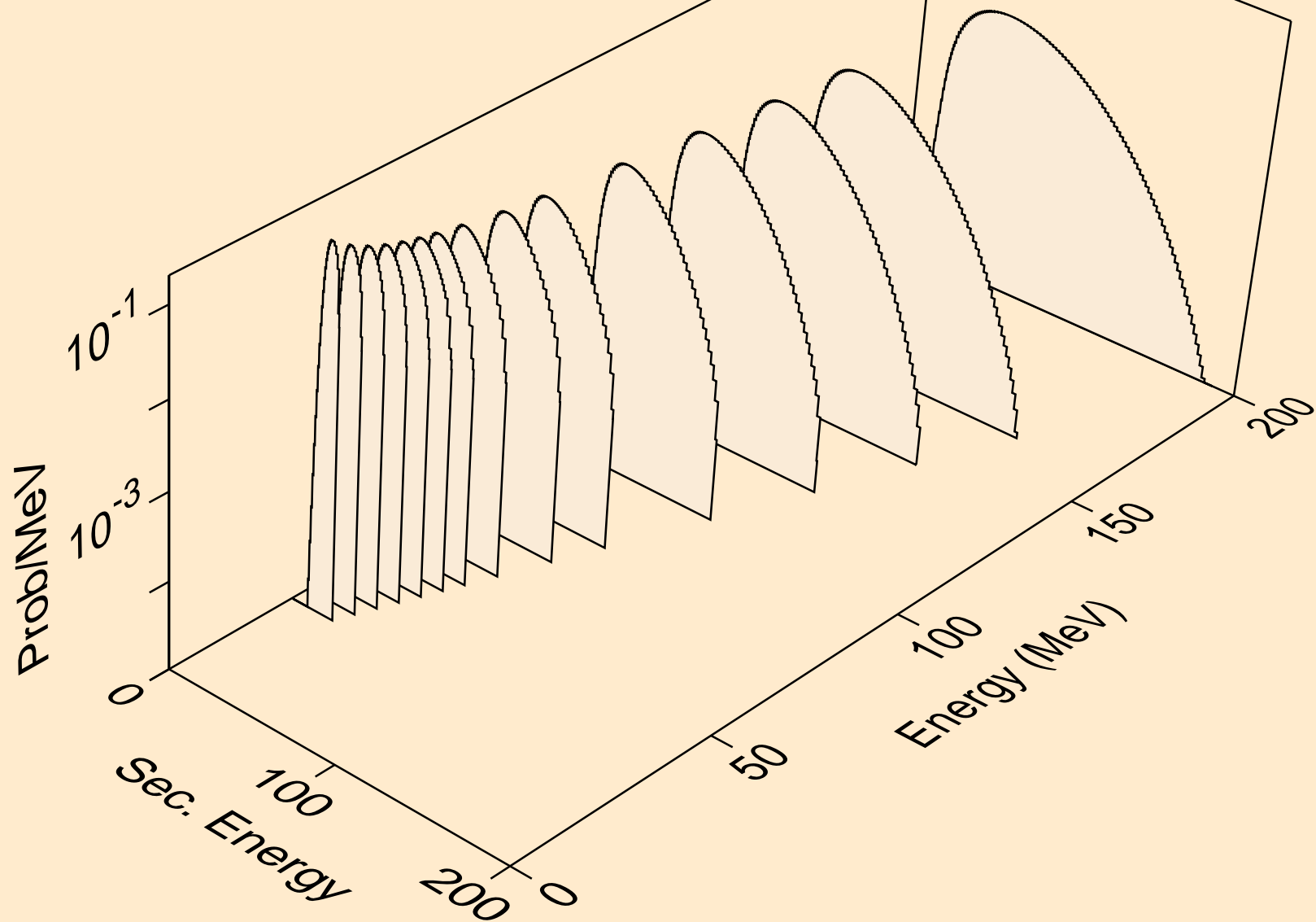
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tritons from (n,t)



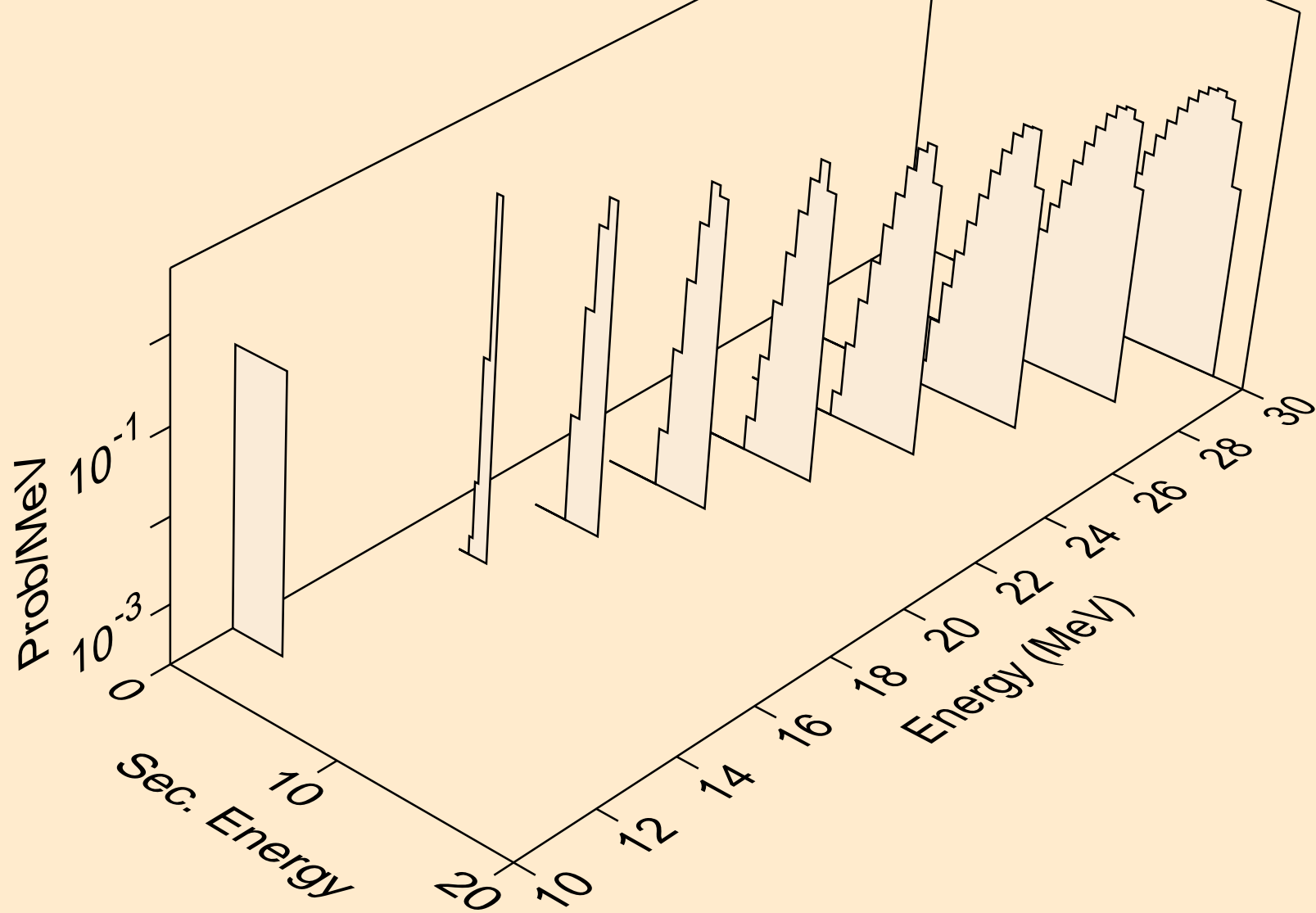
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tritons from (n,pt)



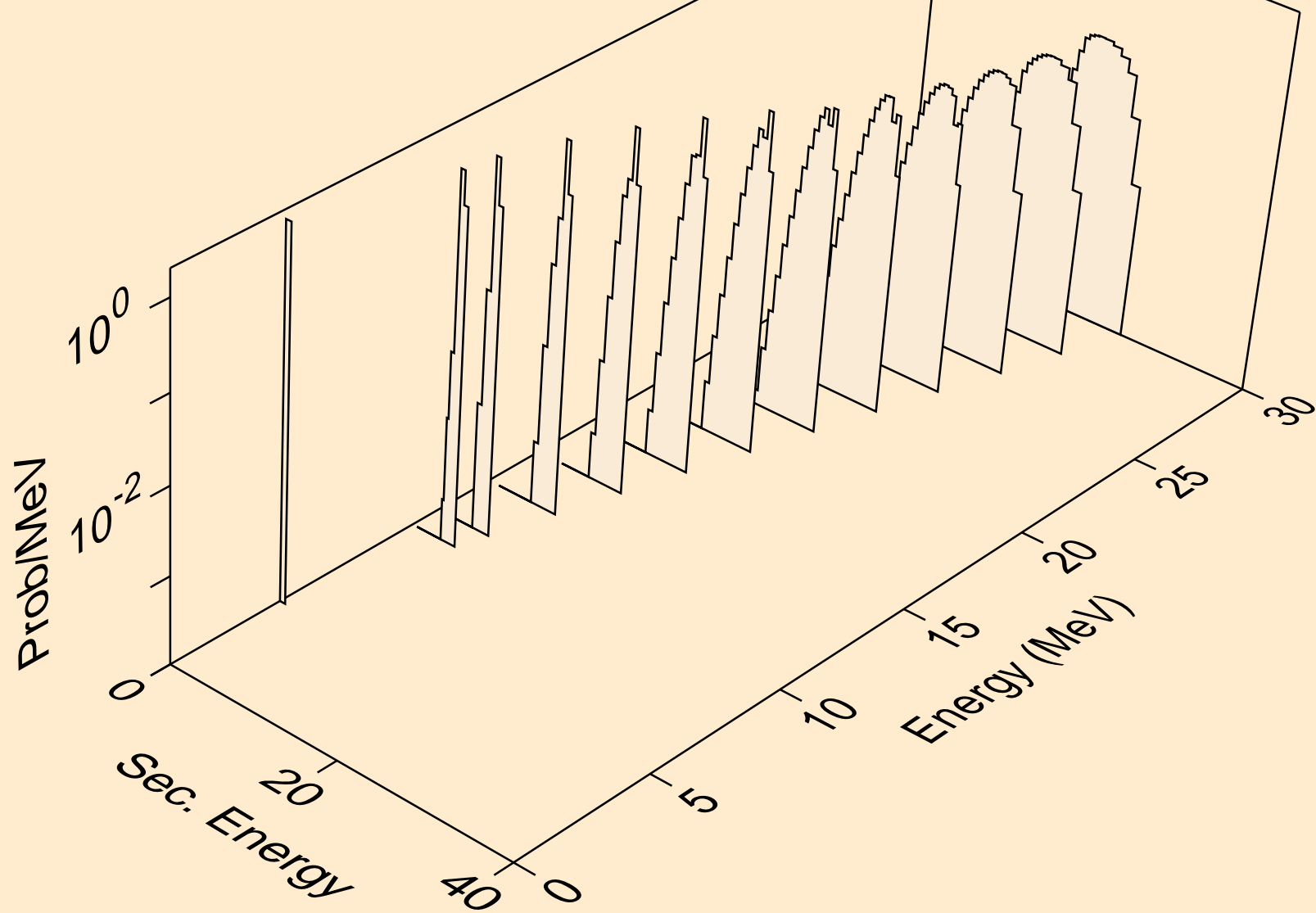
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he3s from (n,x)



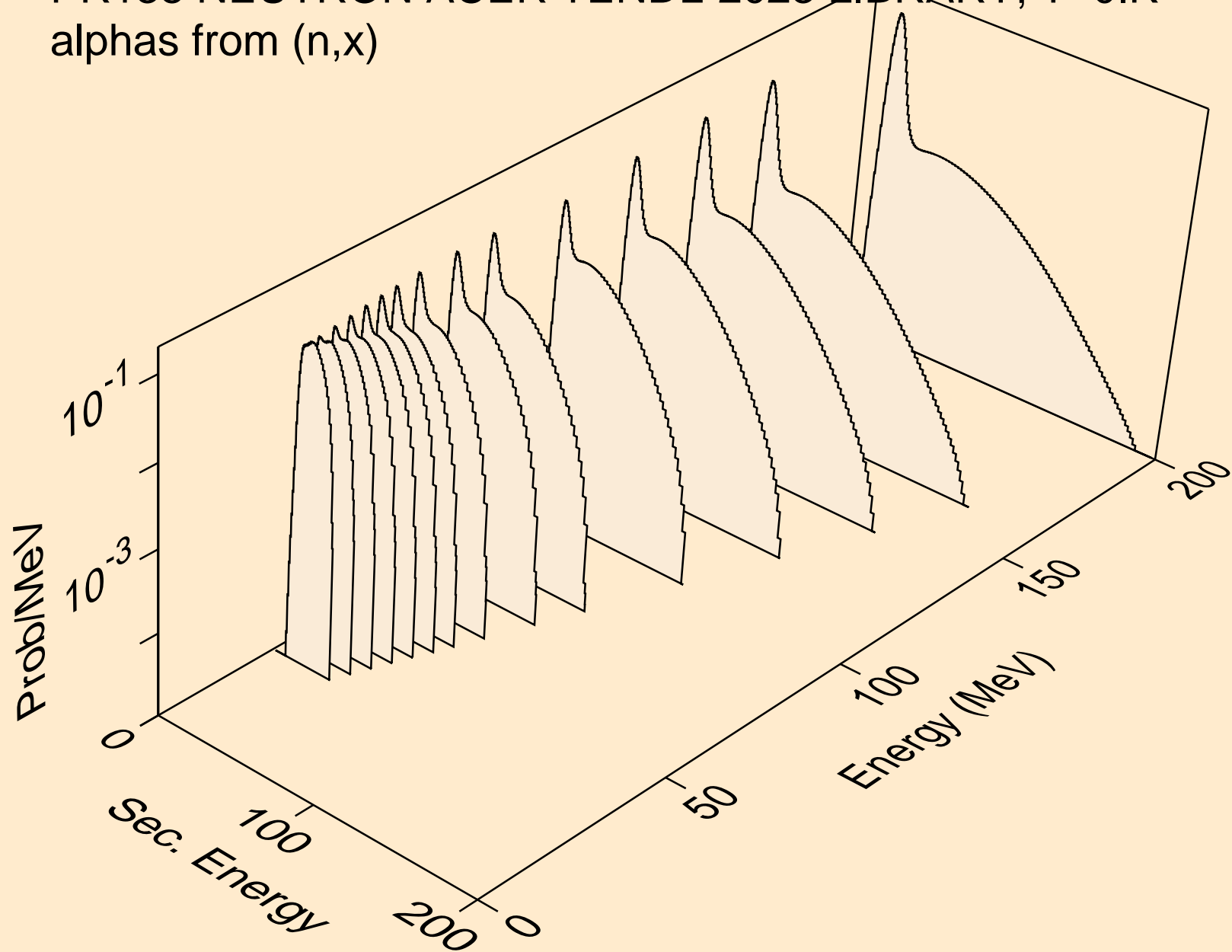
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he3s from (n,n\*)he3



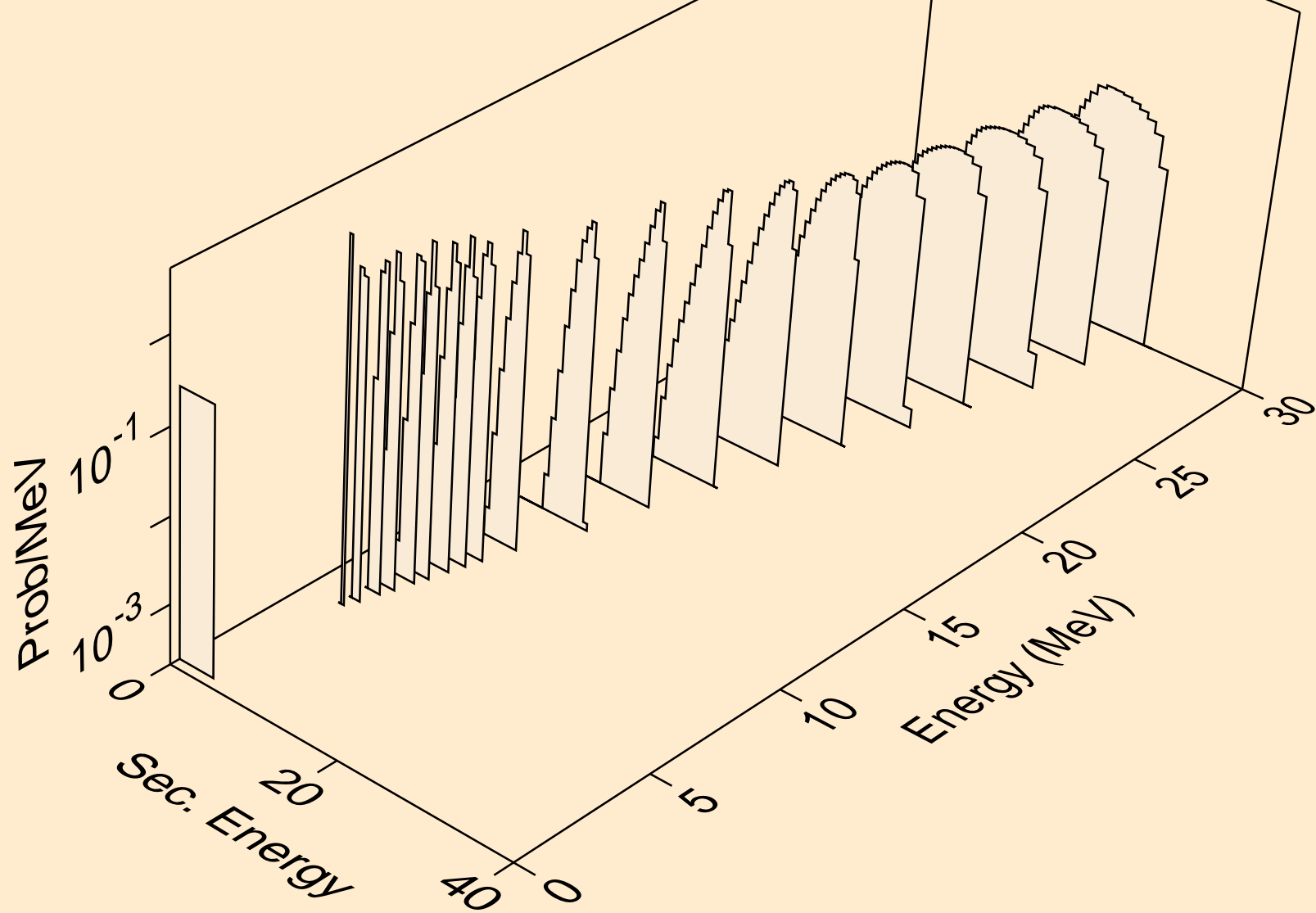
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he3s from (n,he3)



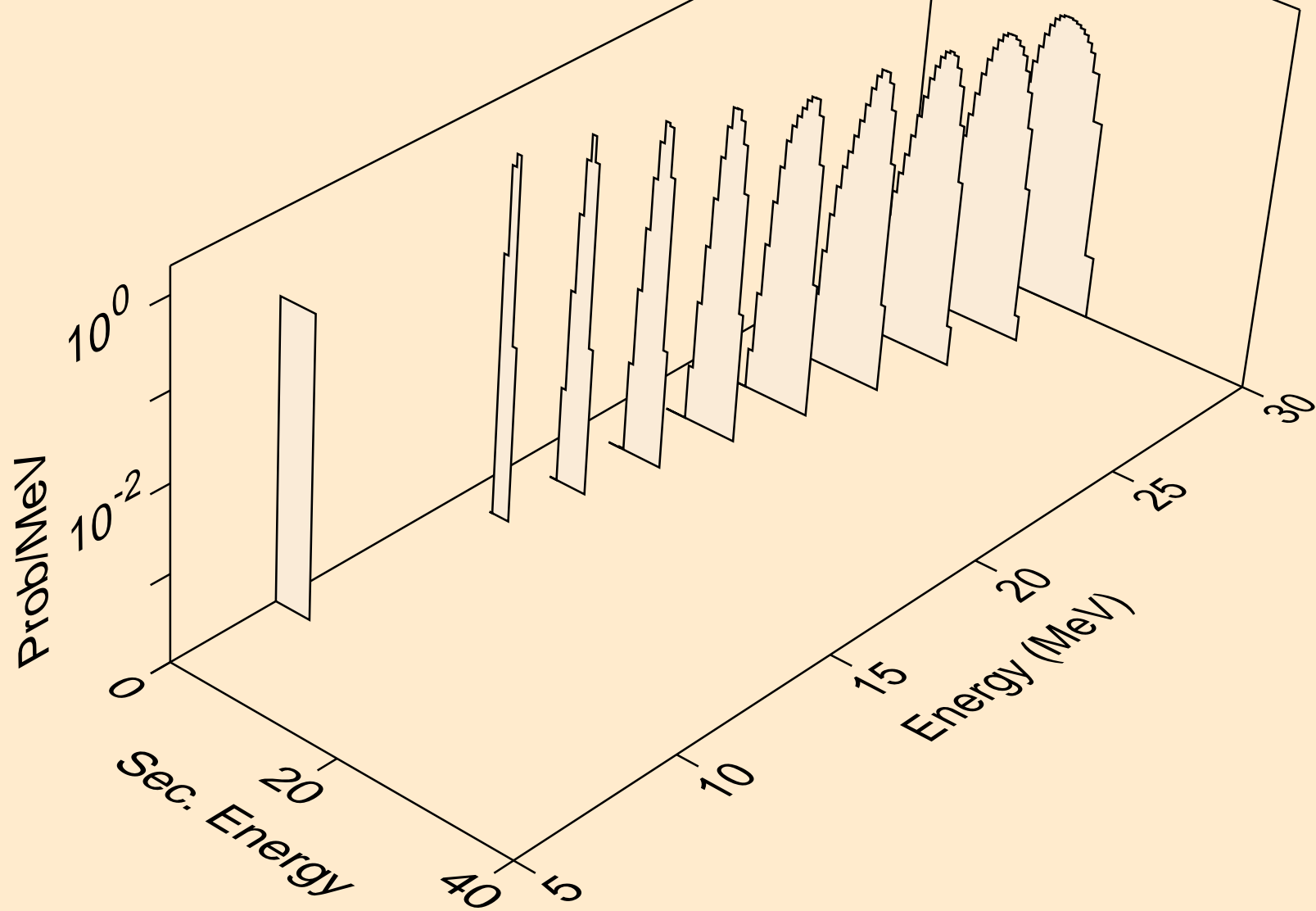
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



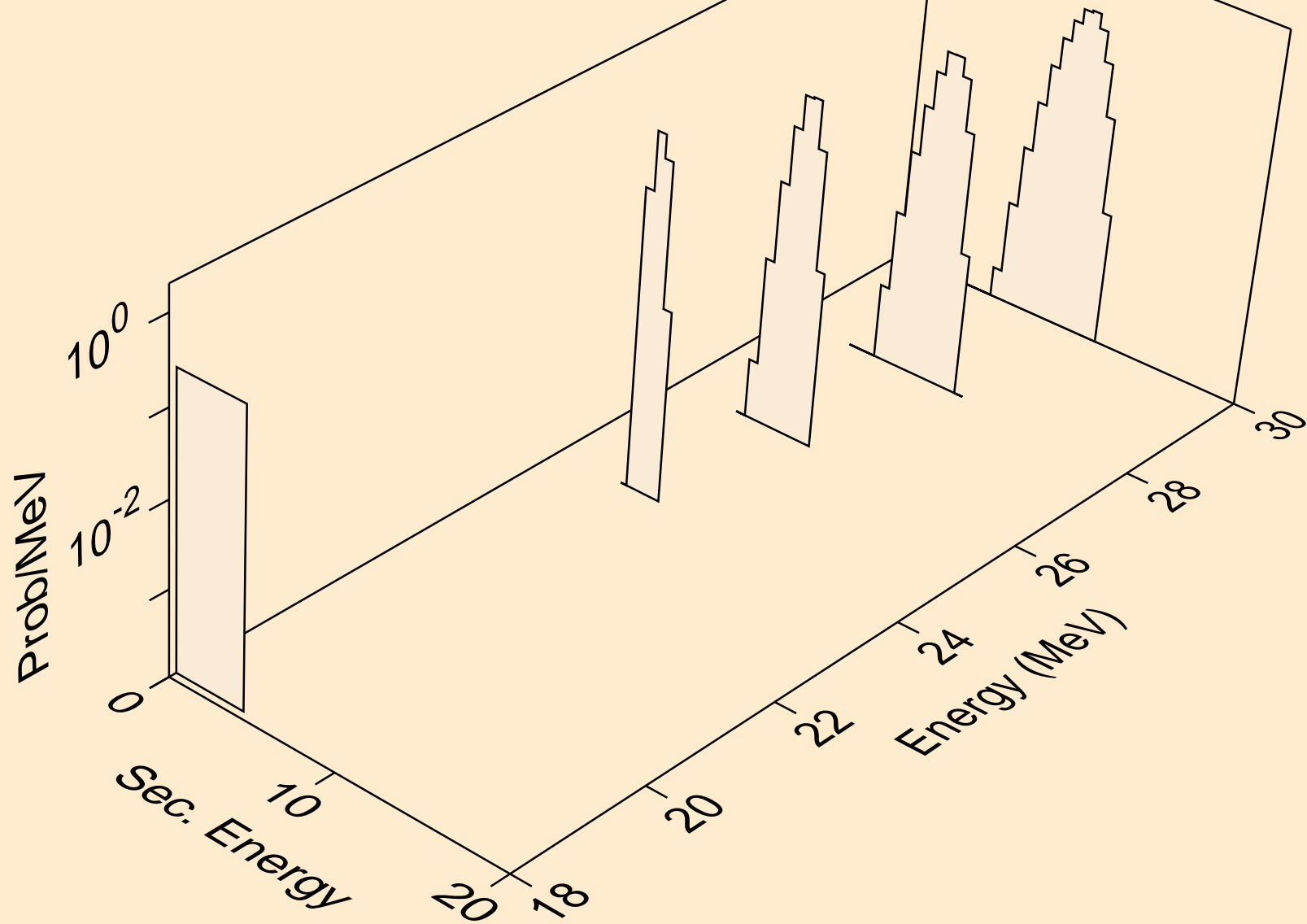
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alphas from (n,n\*)a



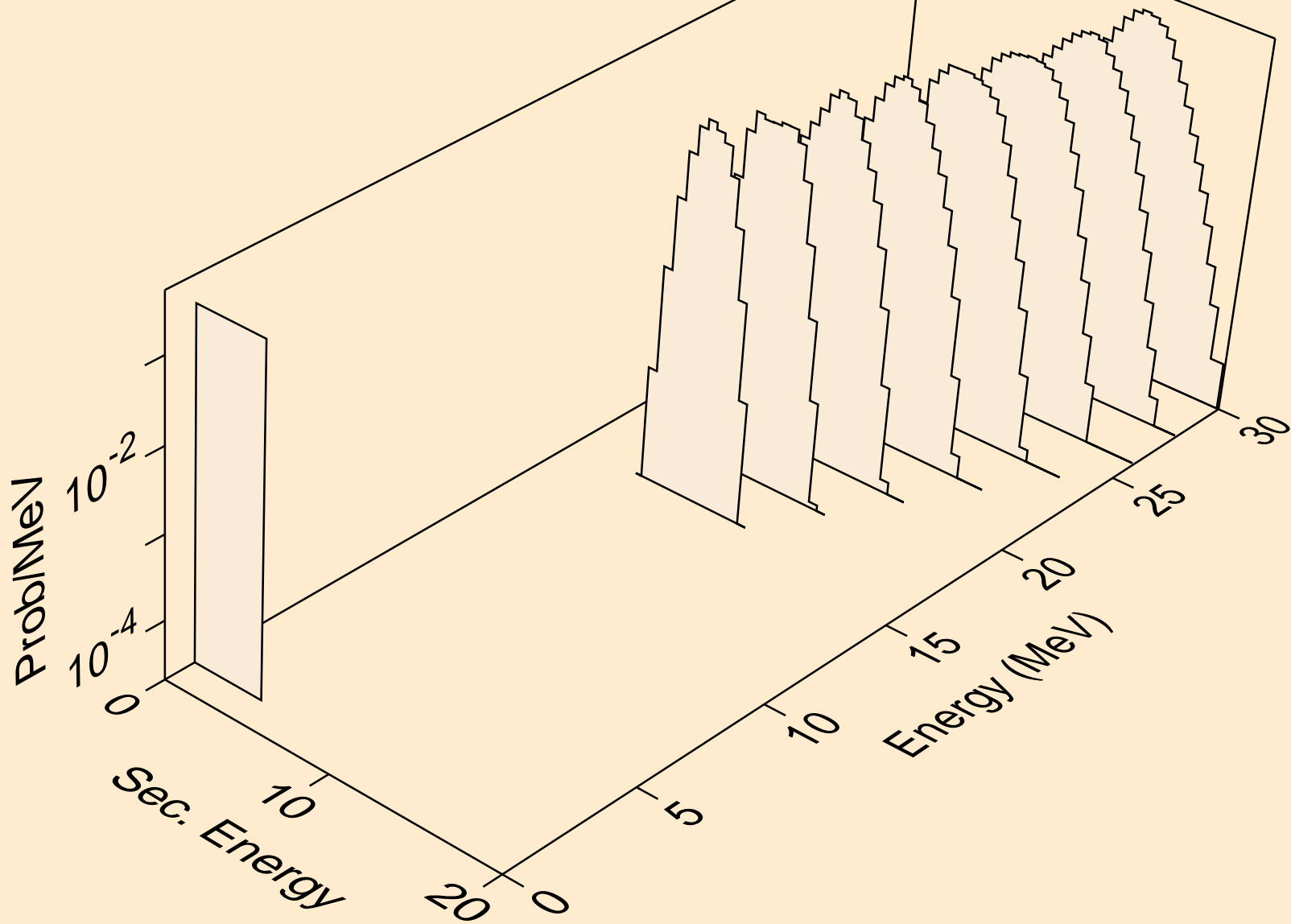
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alphas from (n,2n)a



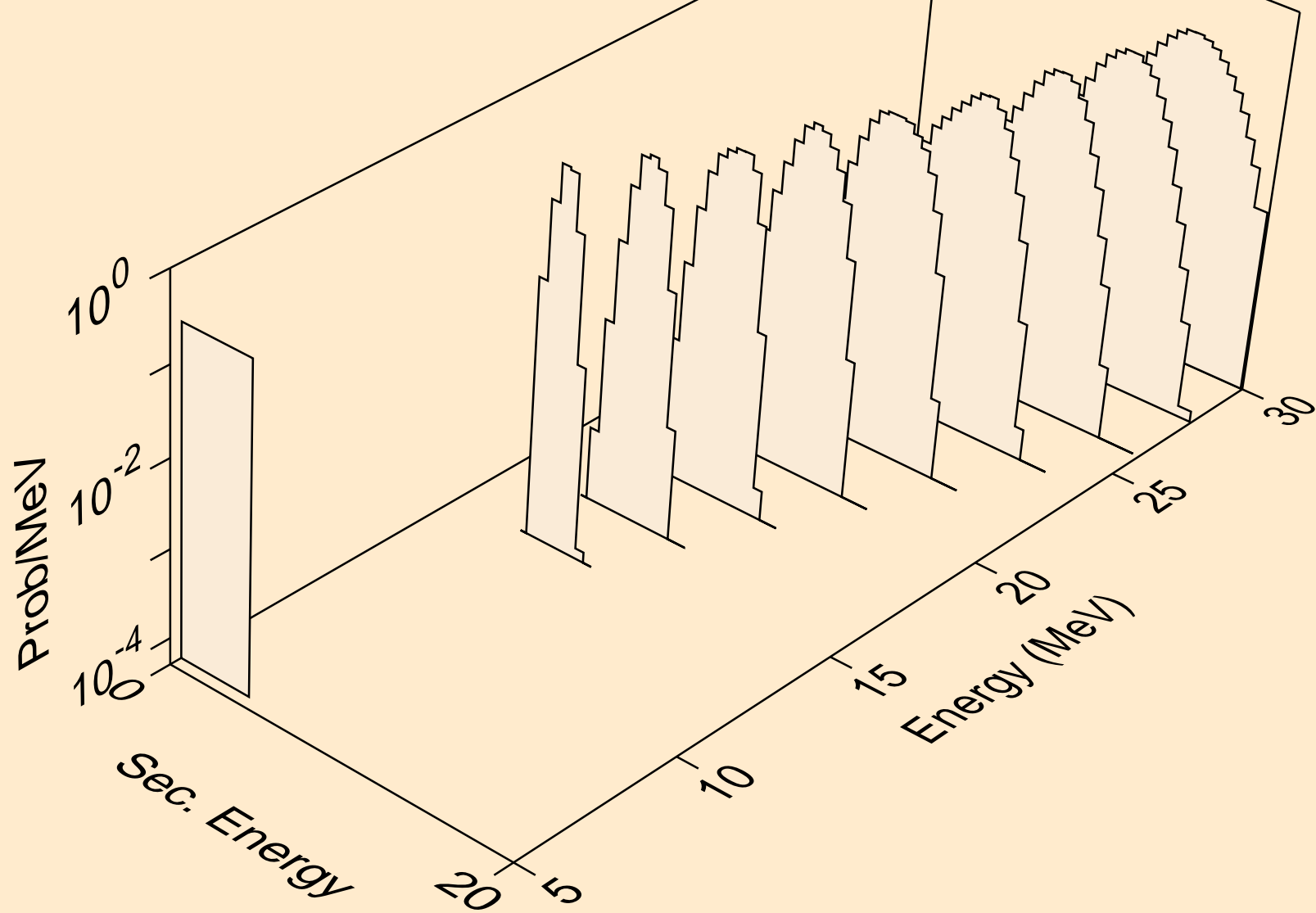
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alphas from (n,3n)a



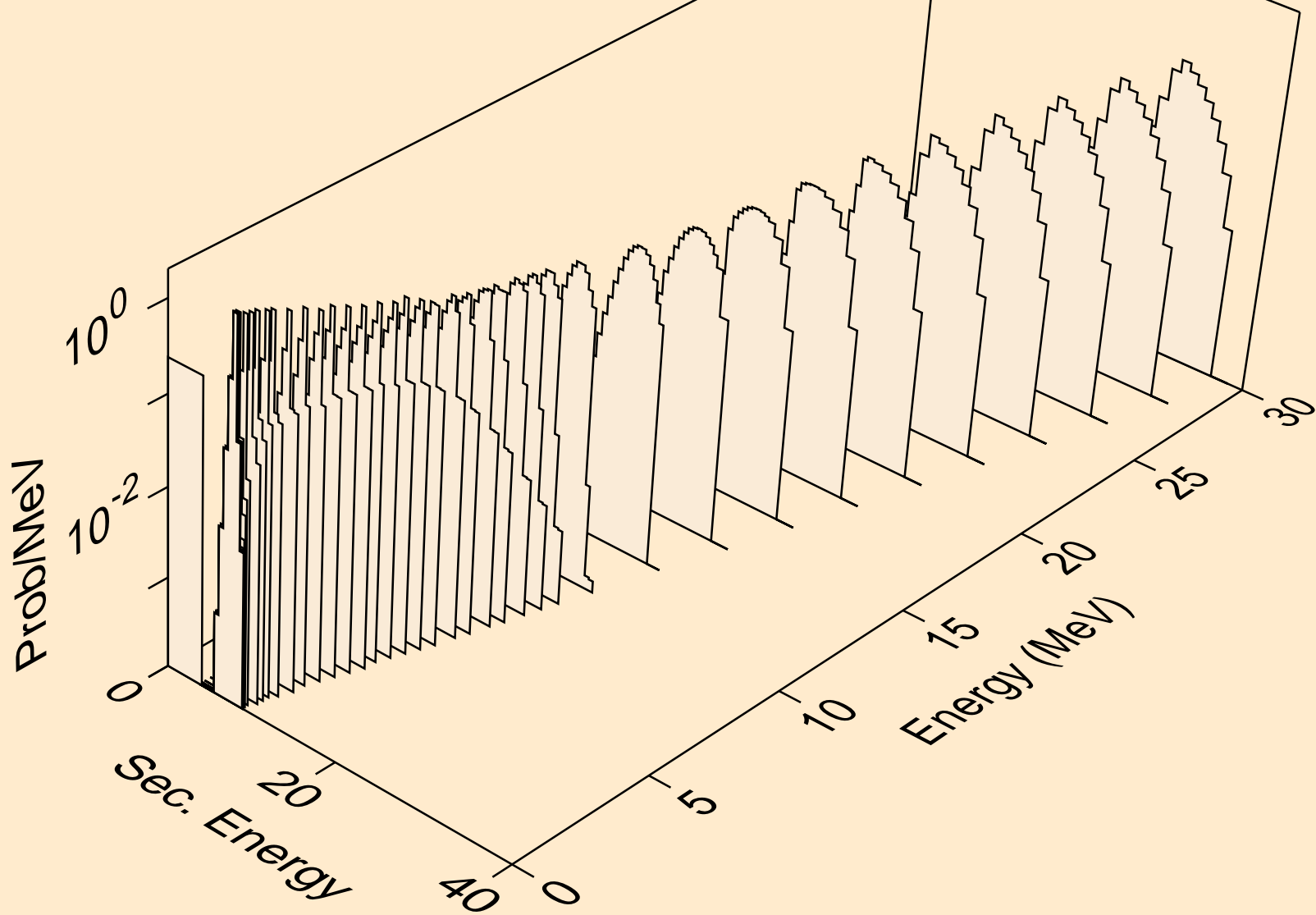
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alphas from (n,n\*)2a



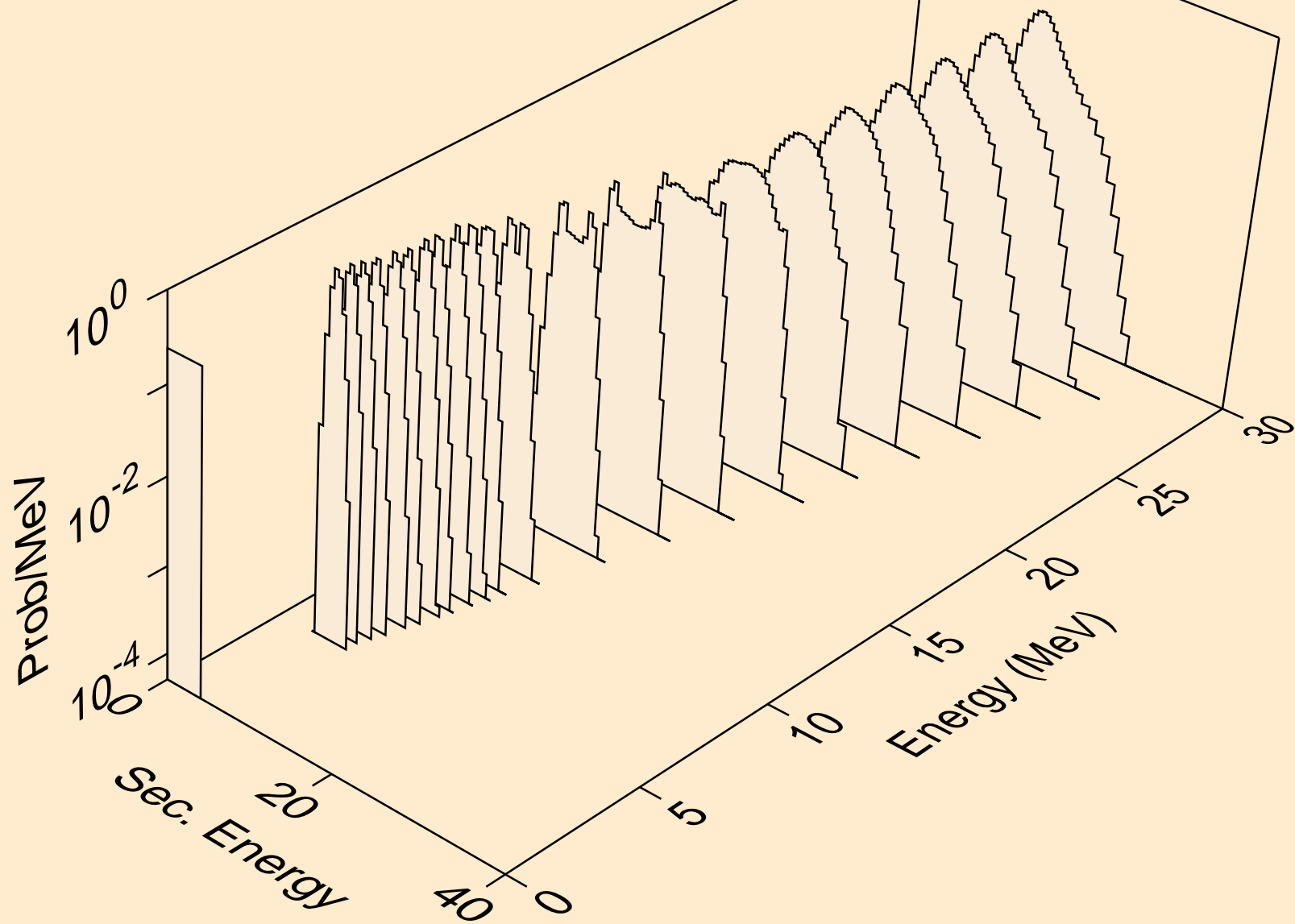
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alphas from (n,npa)



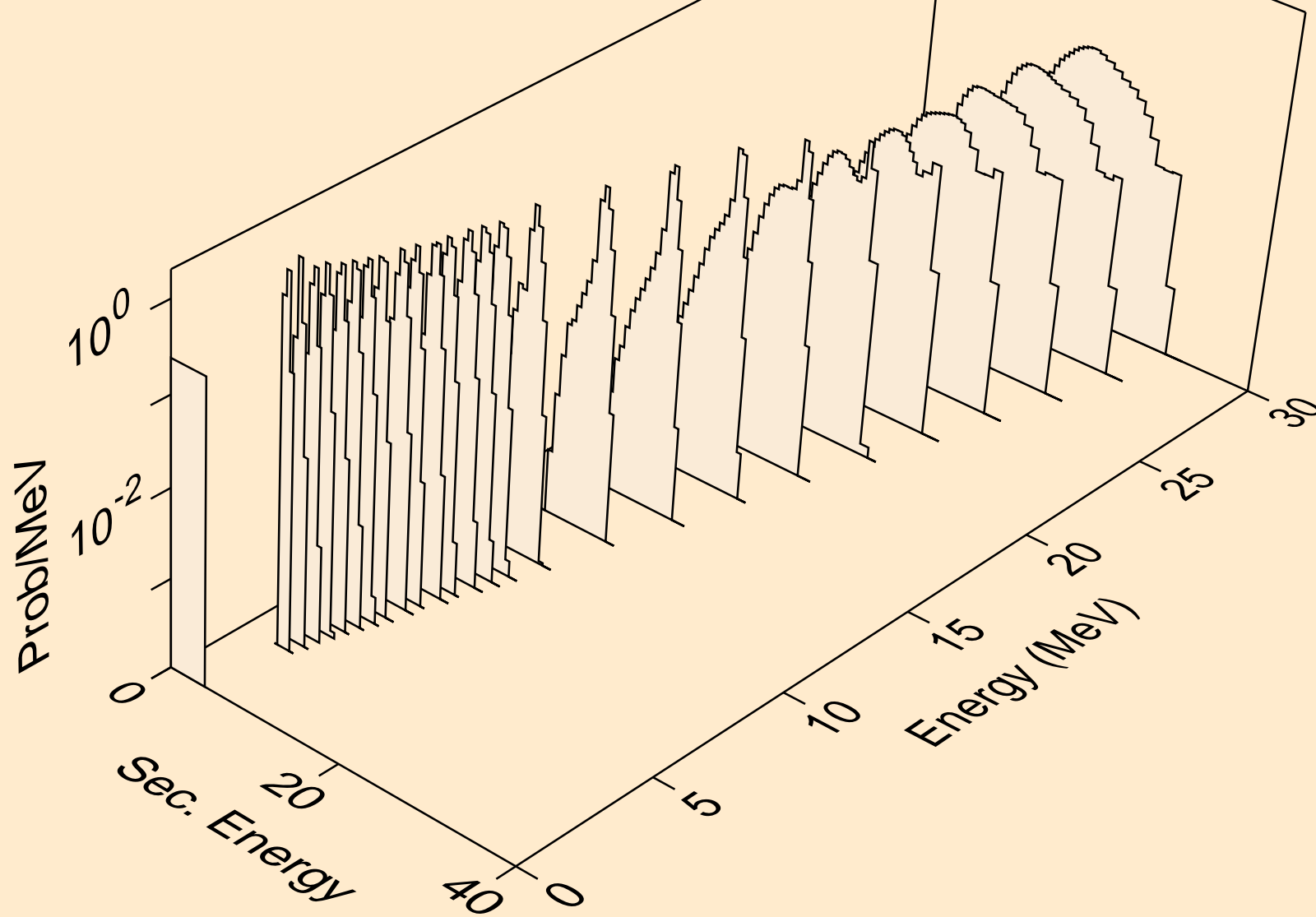
PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



PR138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

