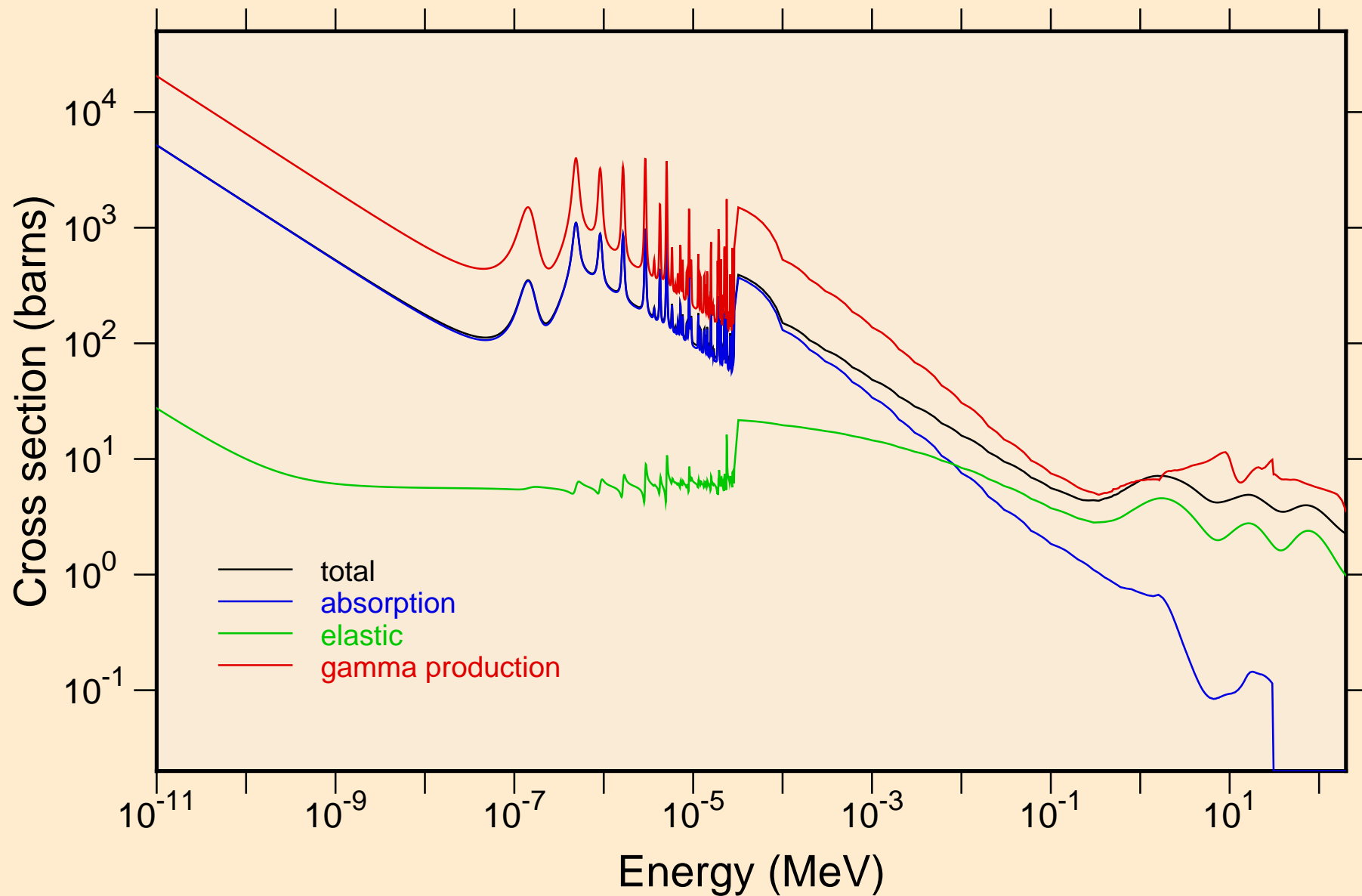
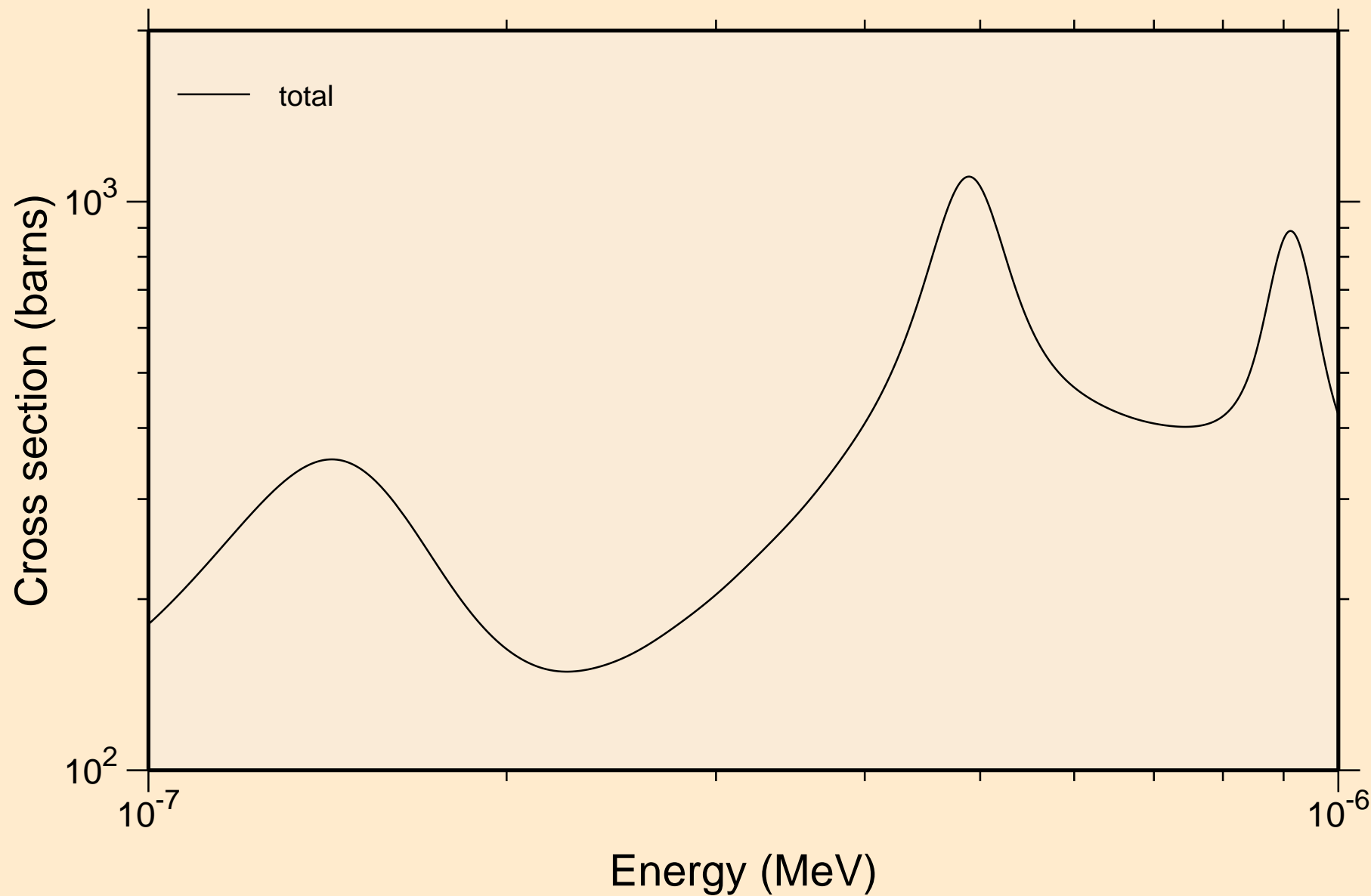


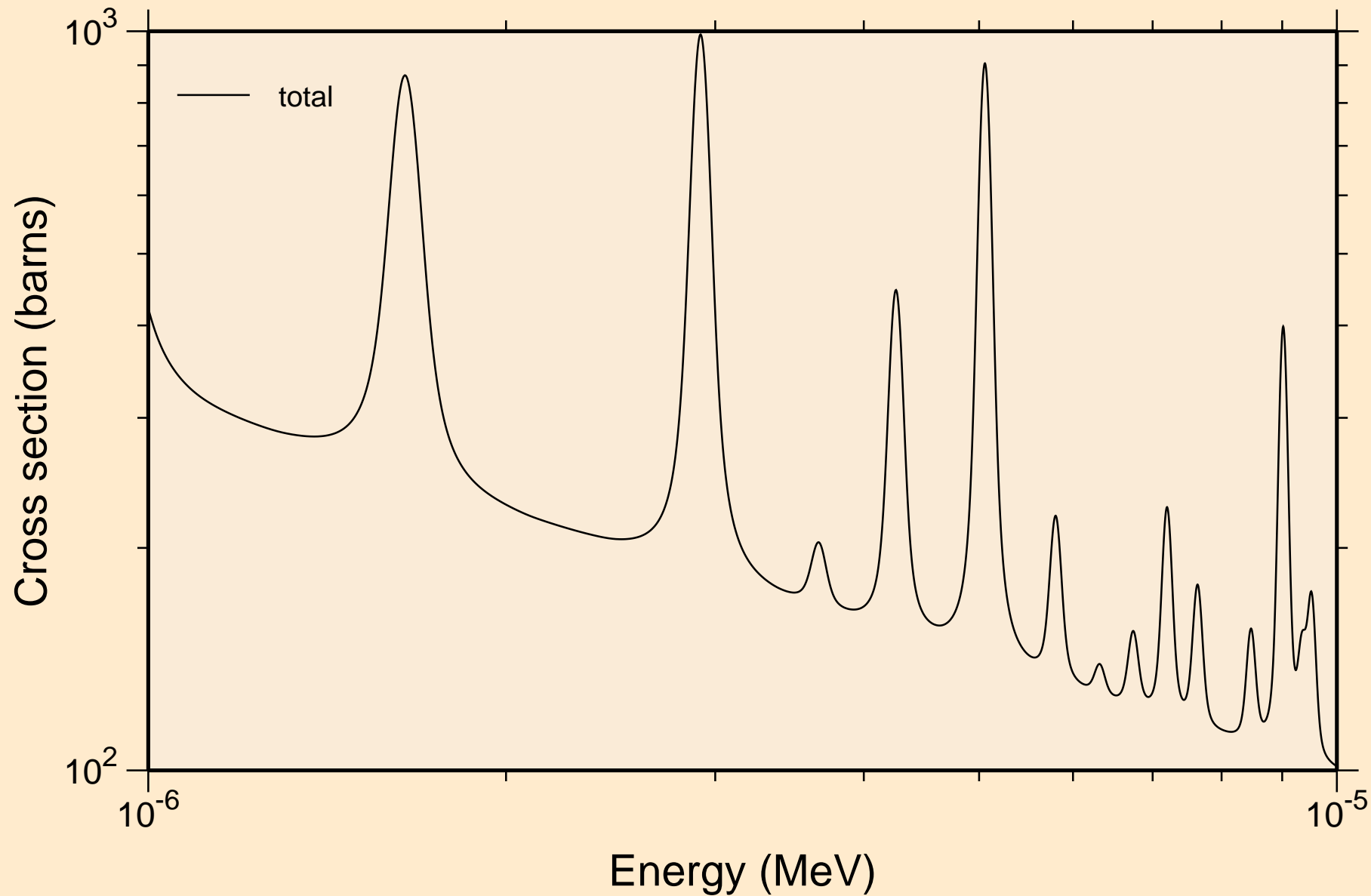
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



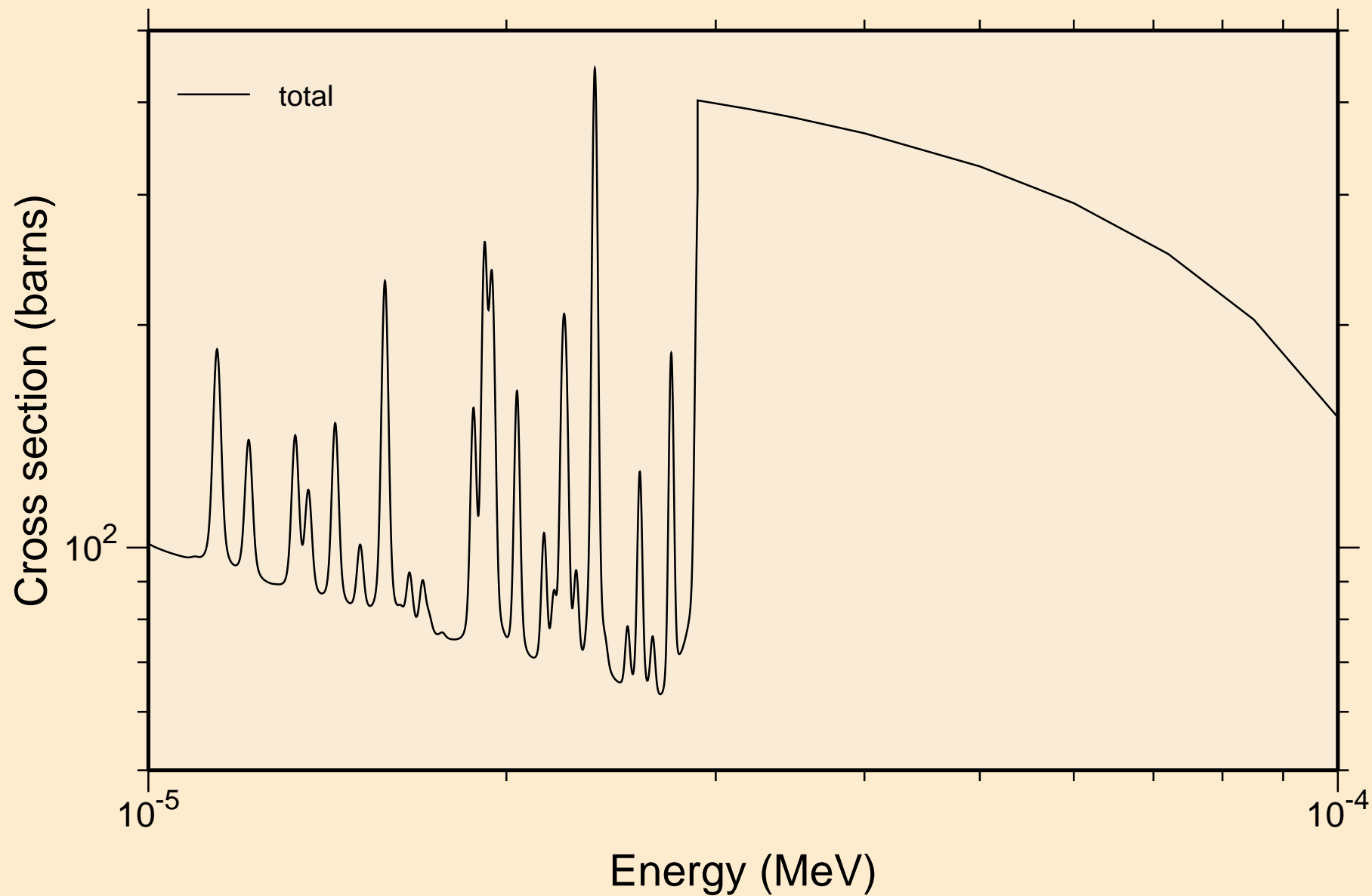
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resonance total cross section



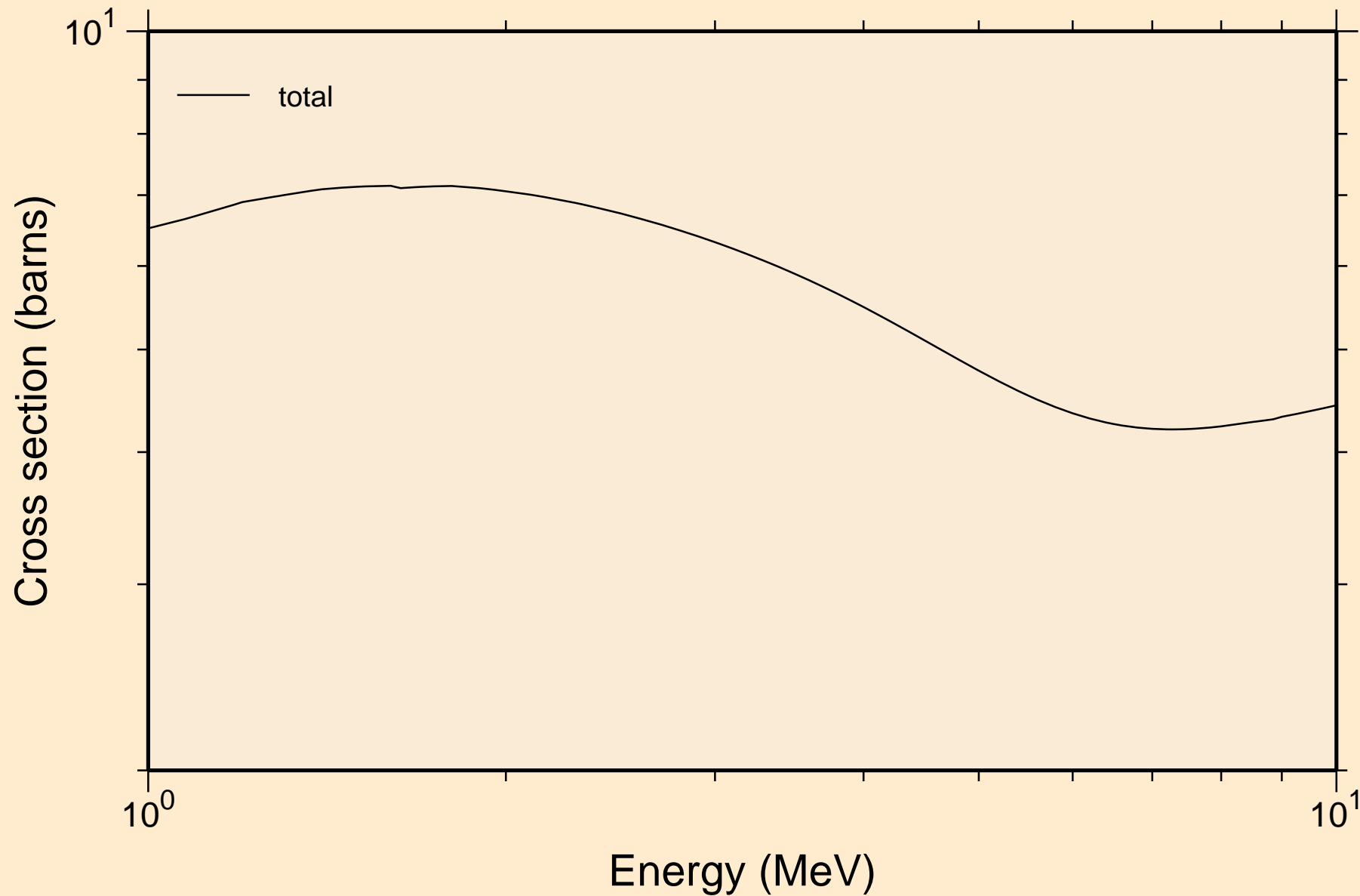
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resonance total cross section



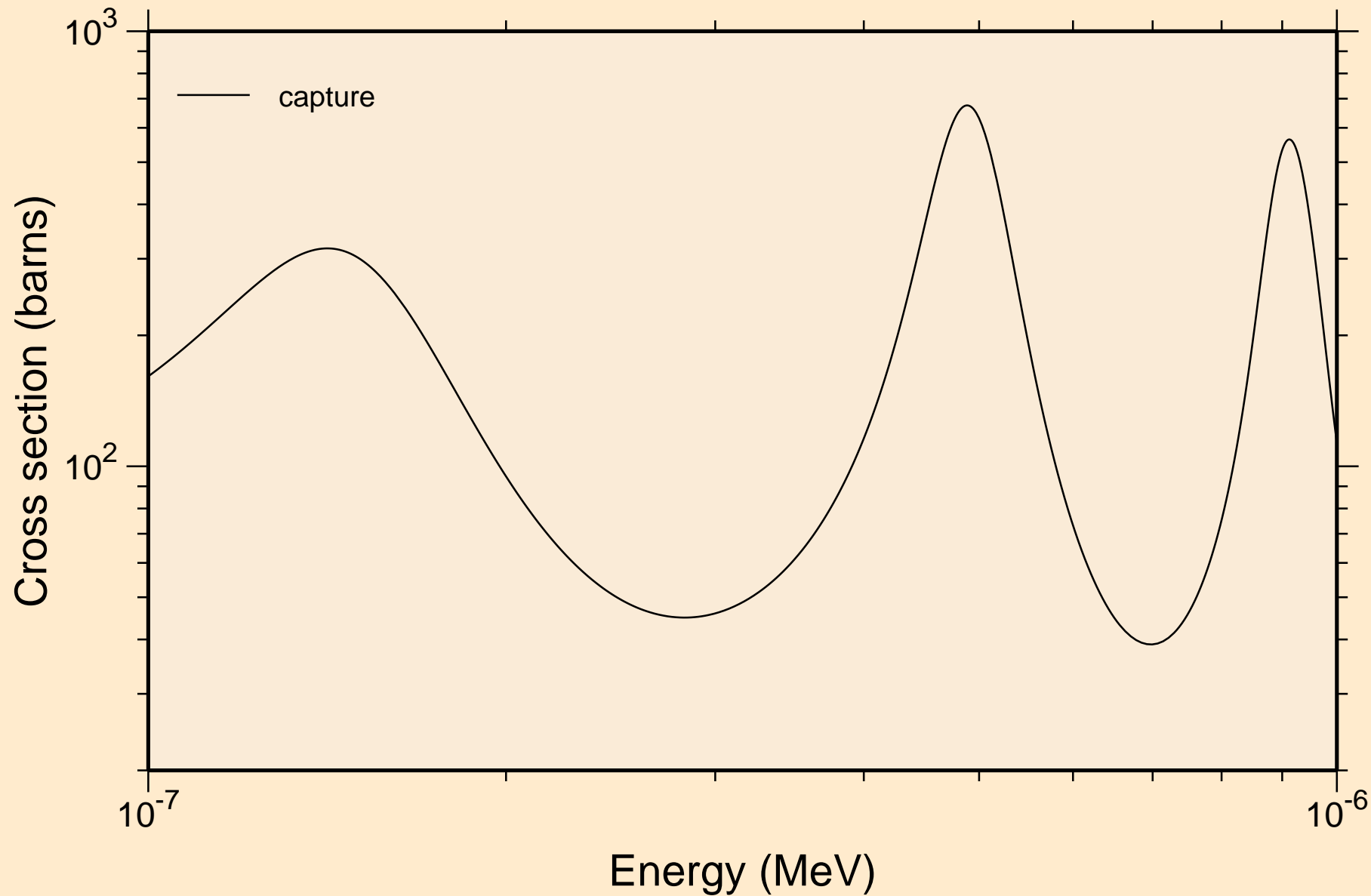
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resonance total cross section



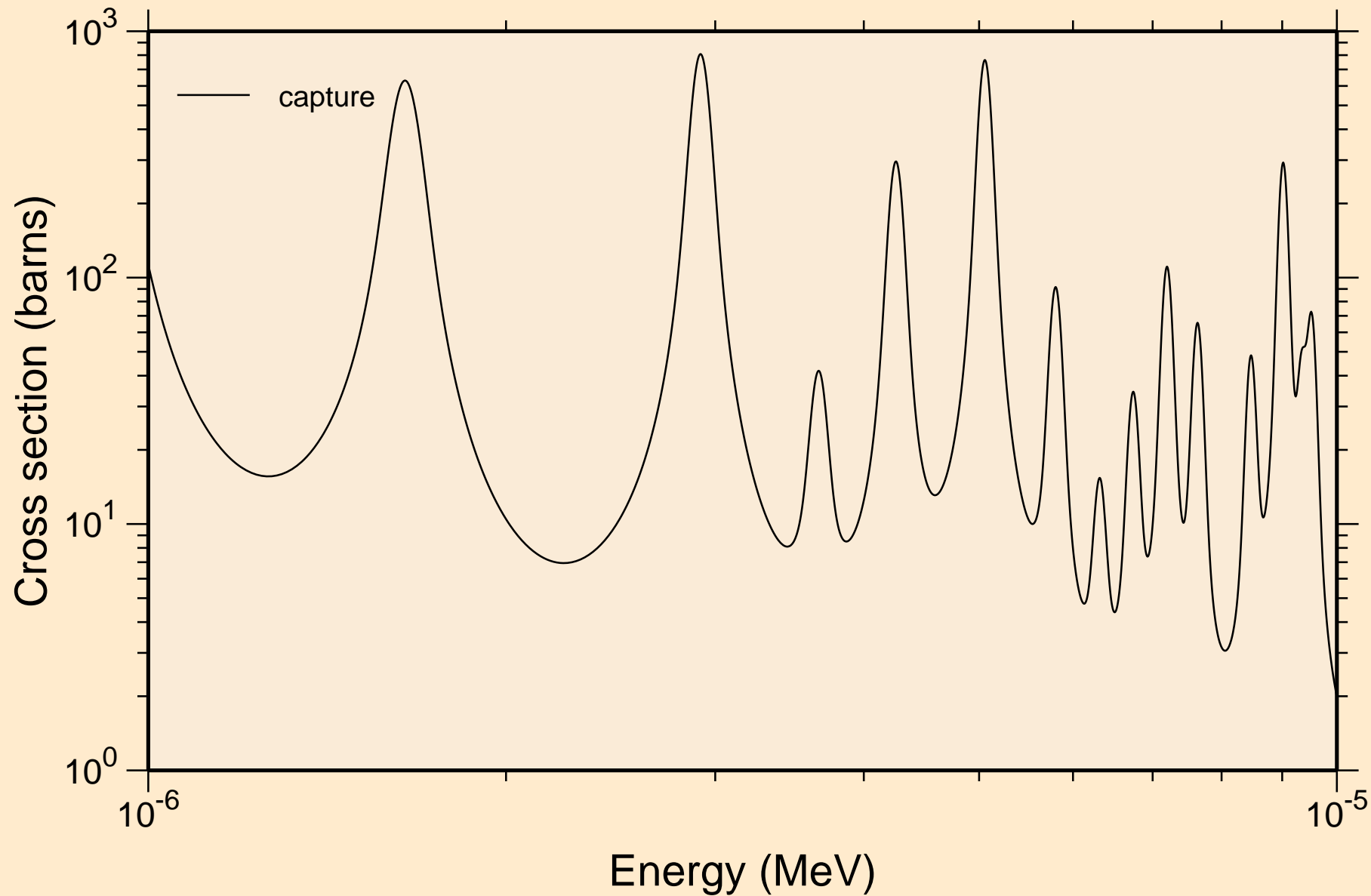
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resonance total cross section



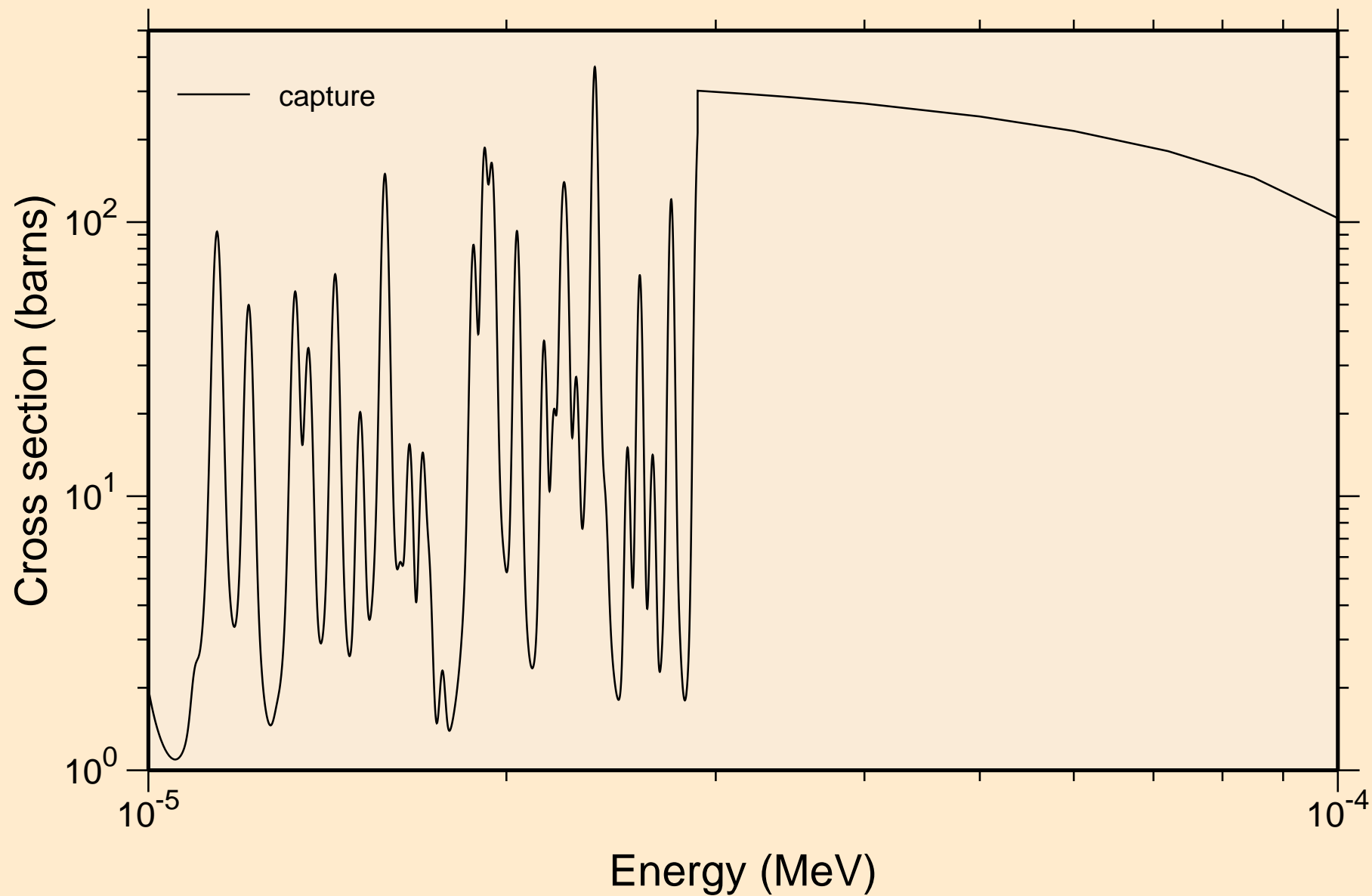
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

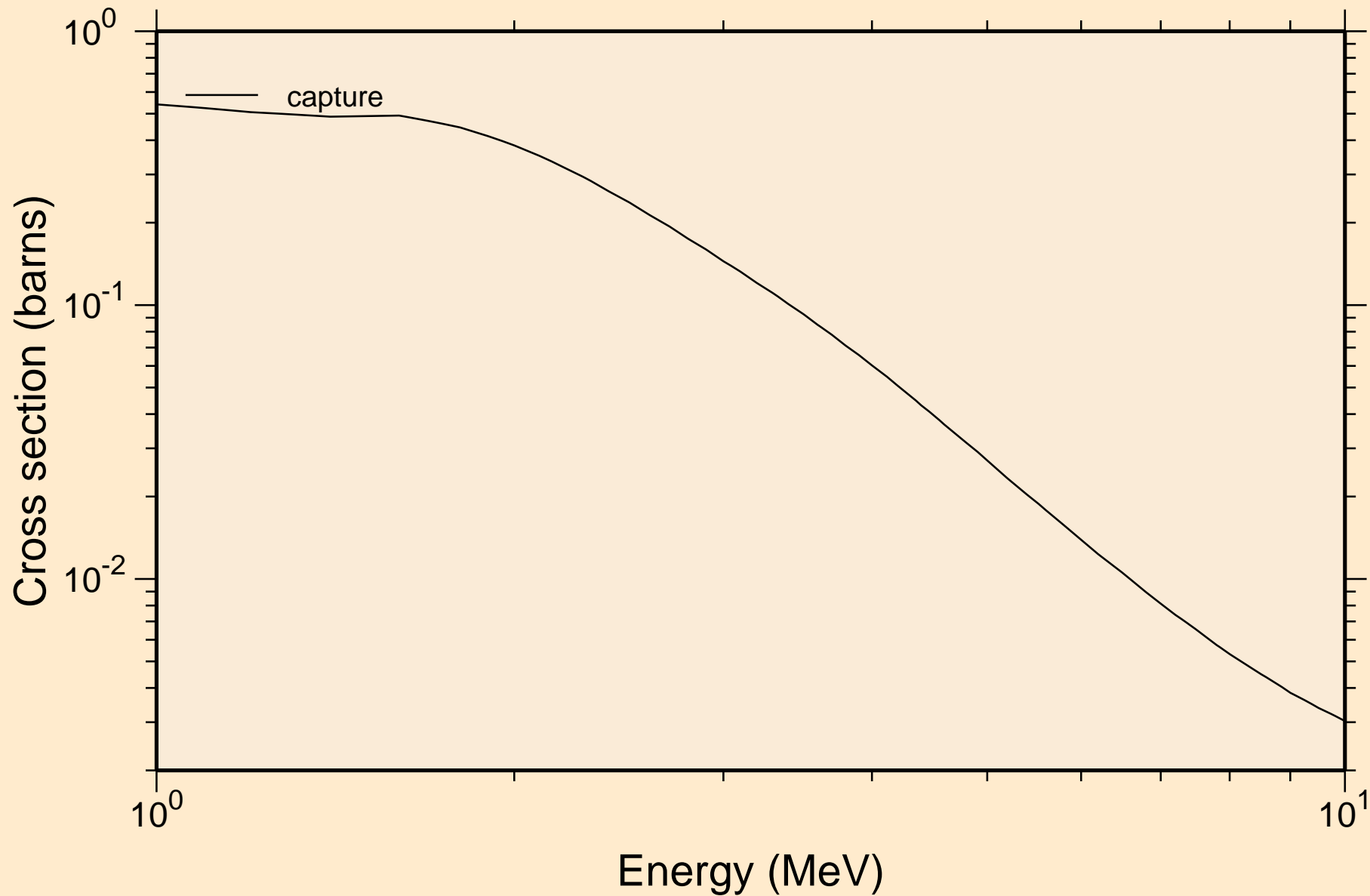


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

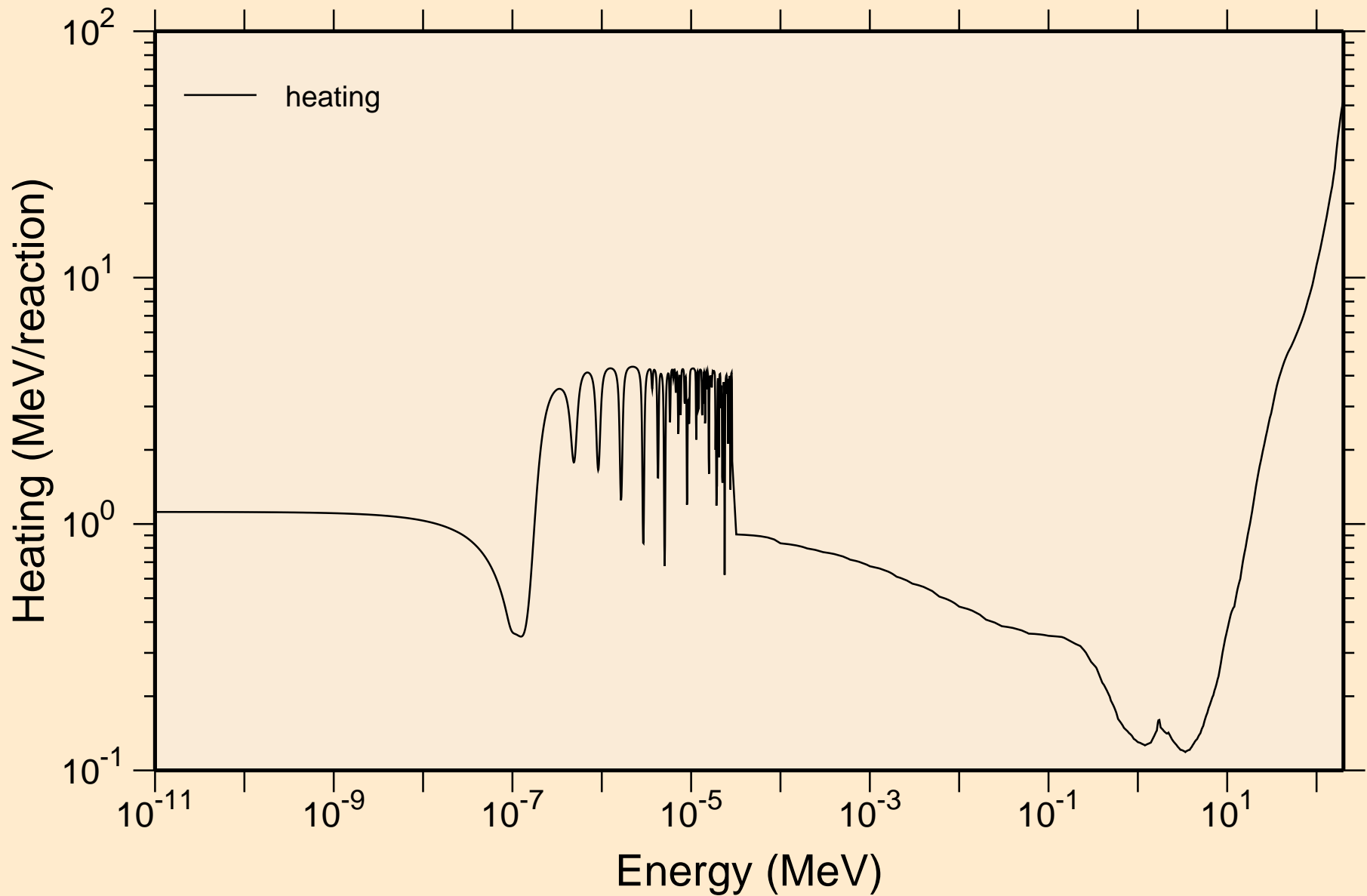




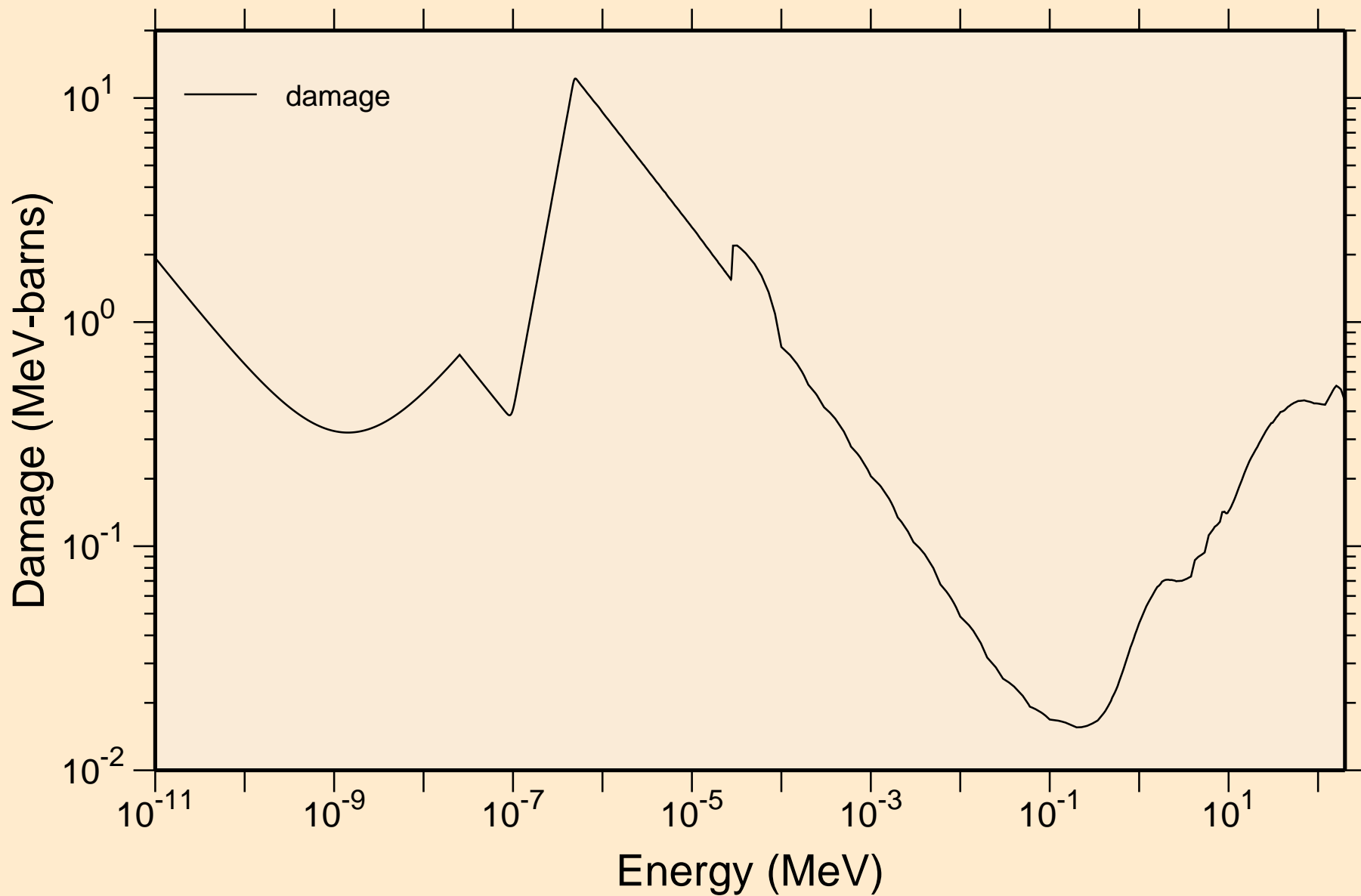
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resonance absorption cross sections



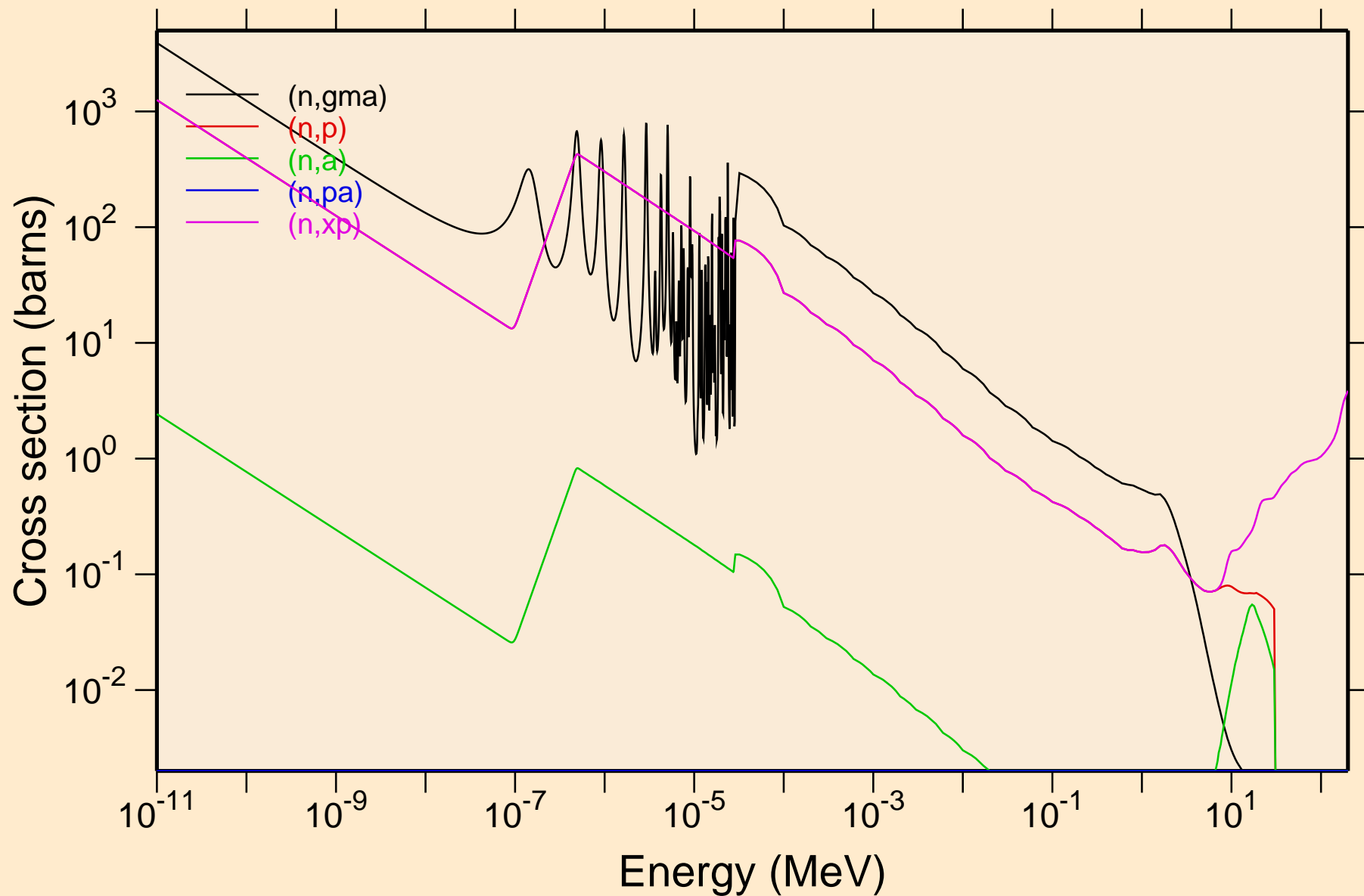
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



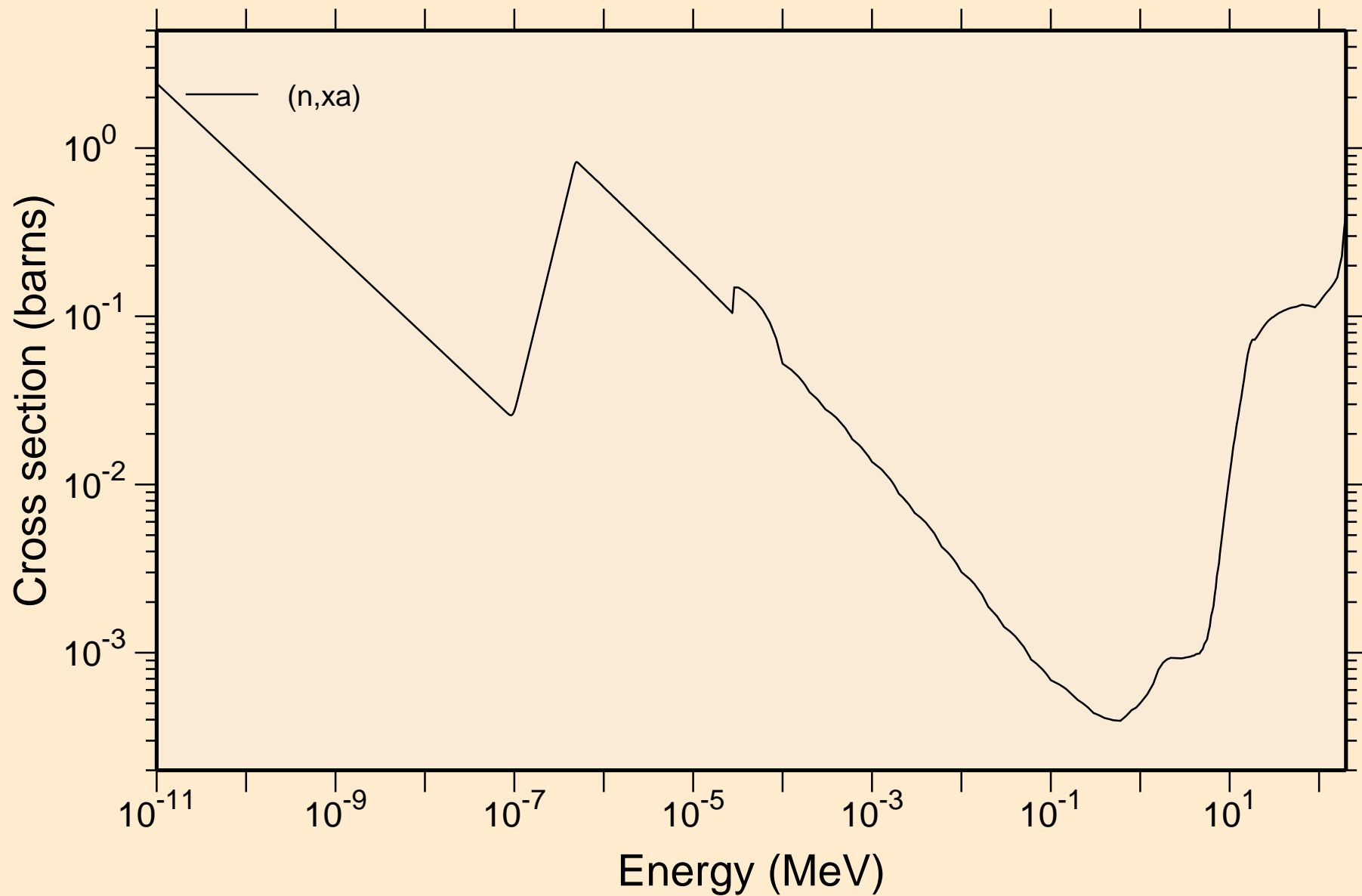
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage



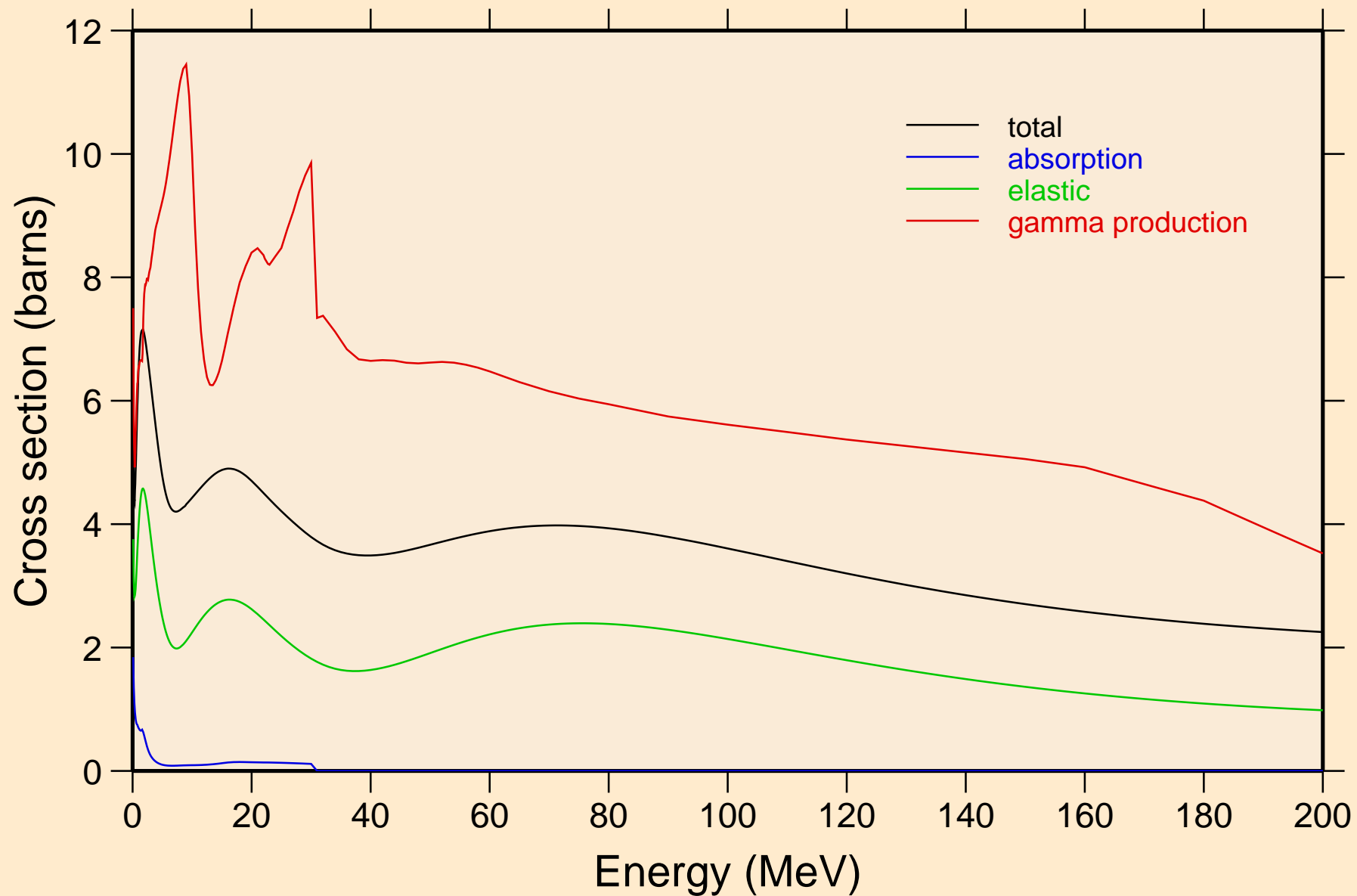
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



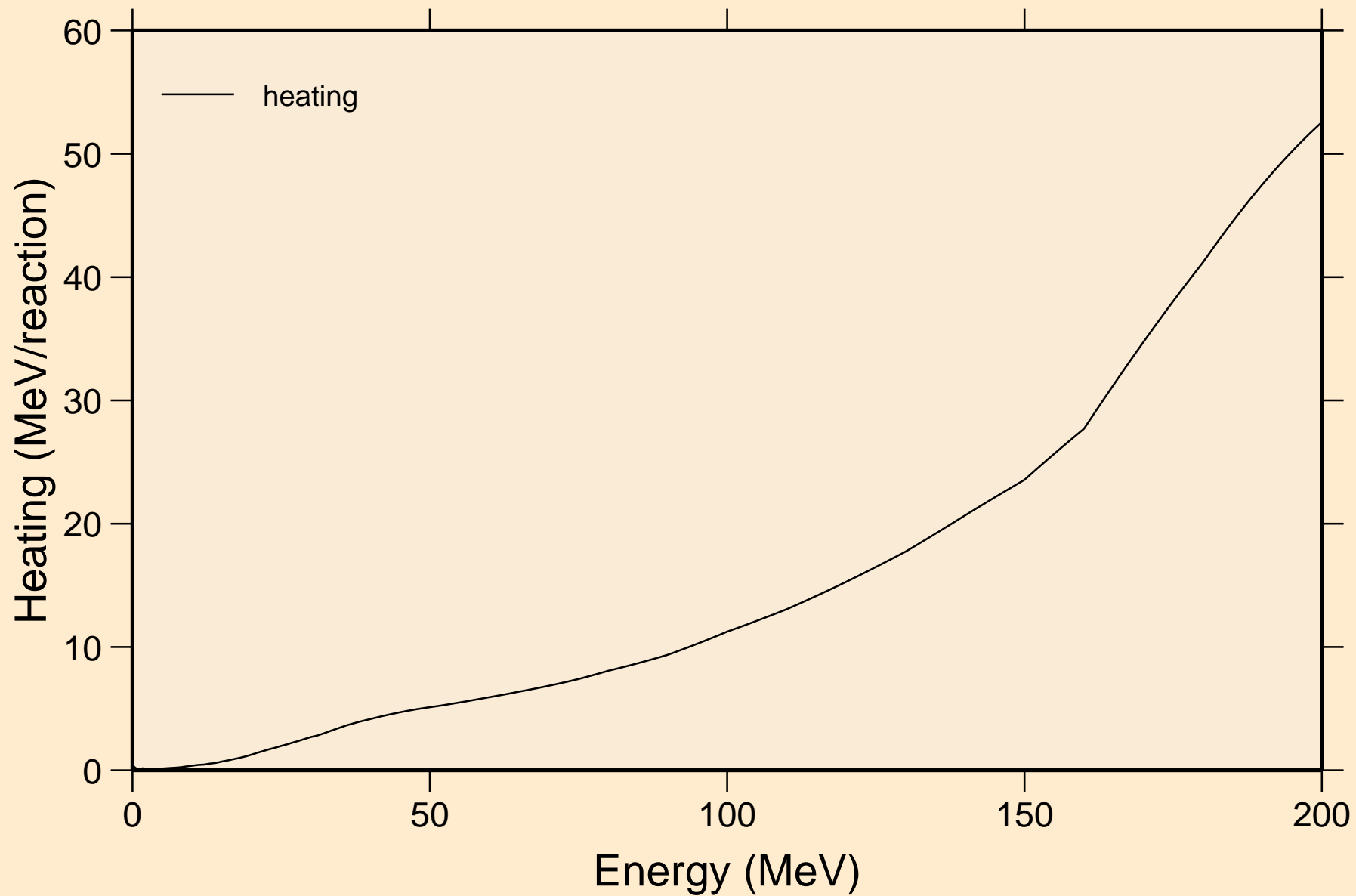
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



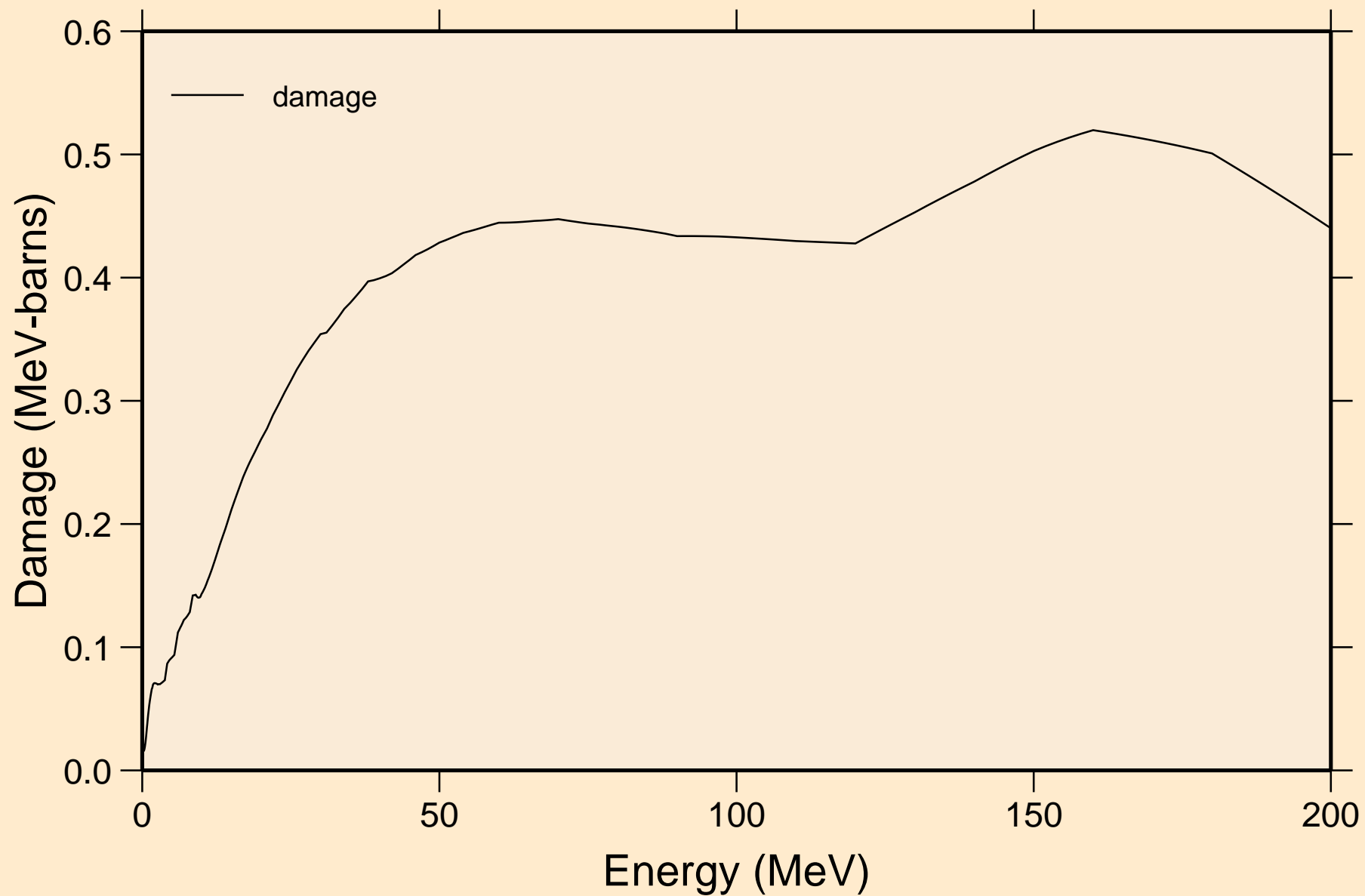
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

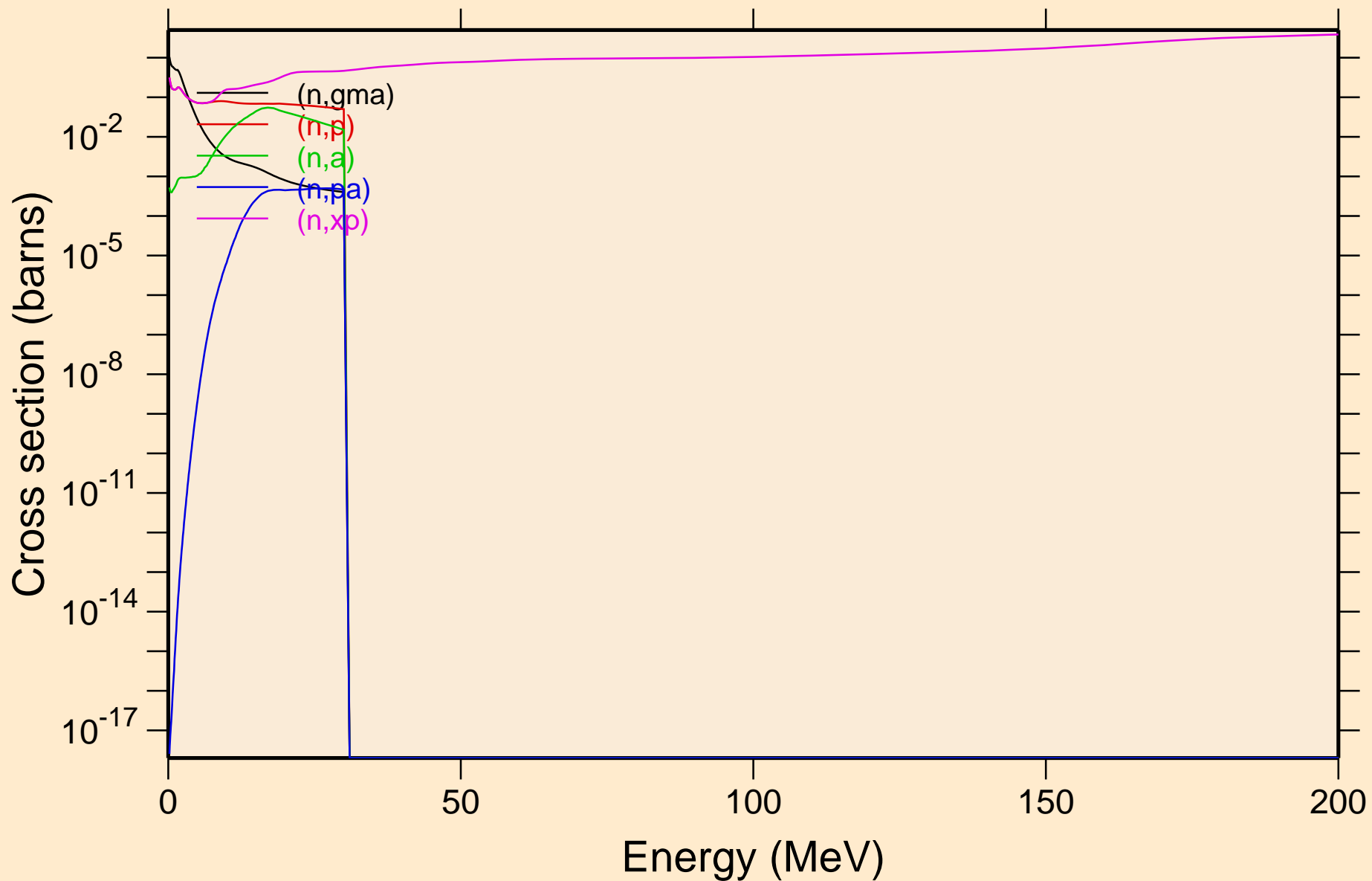


# PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage

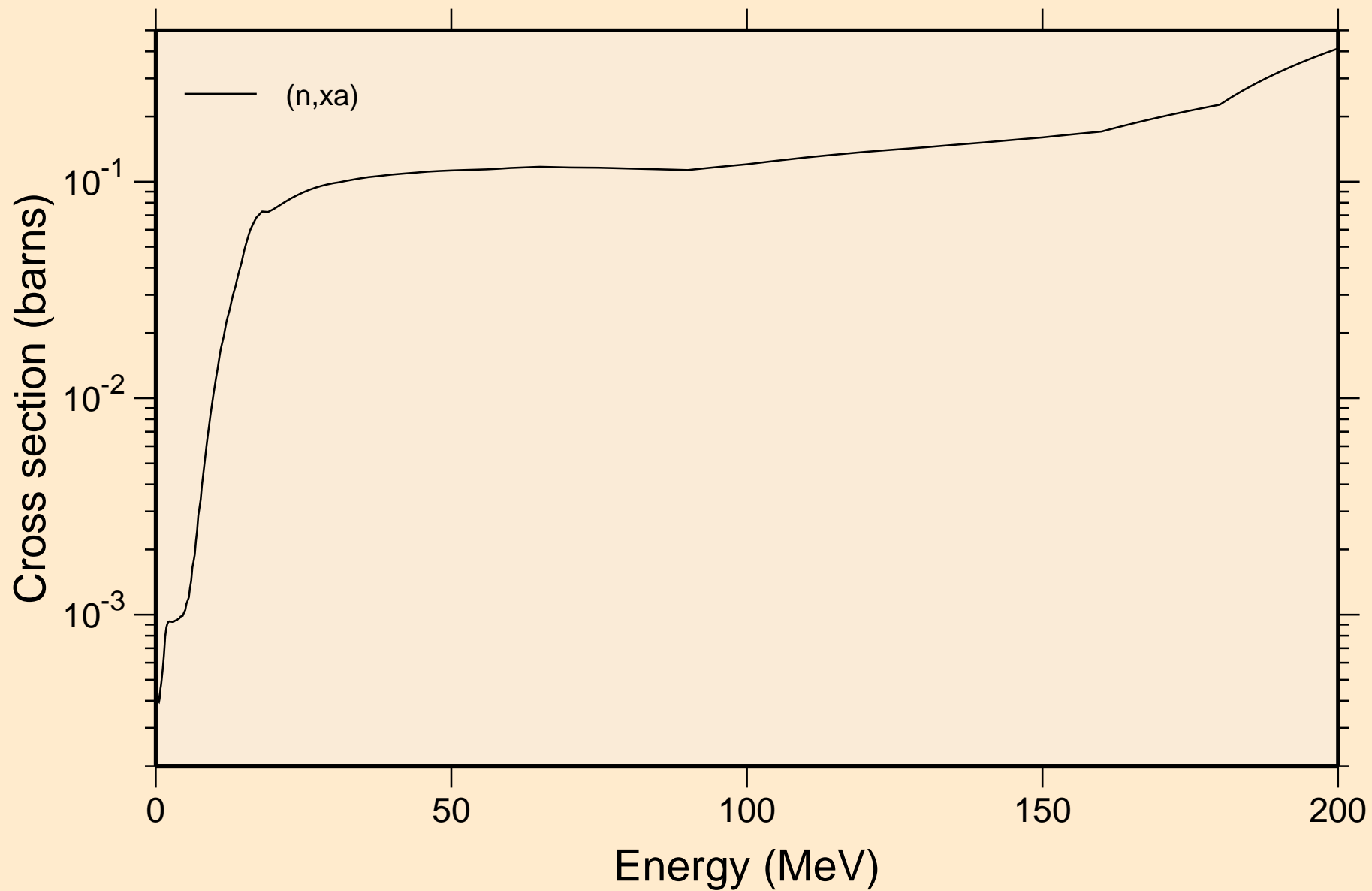




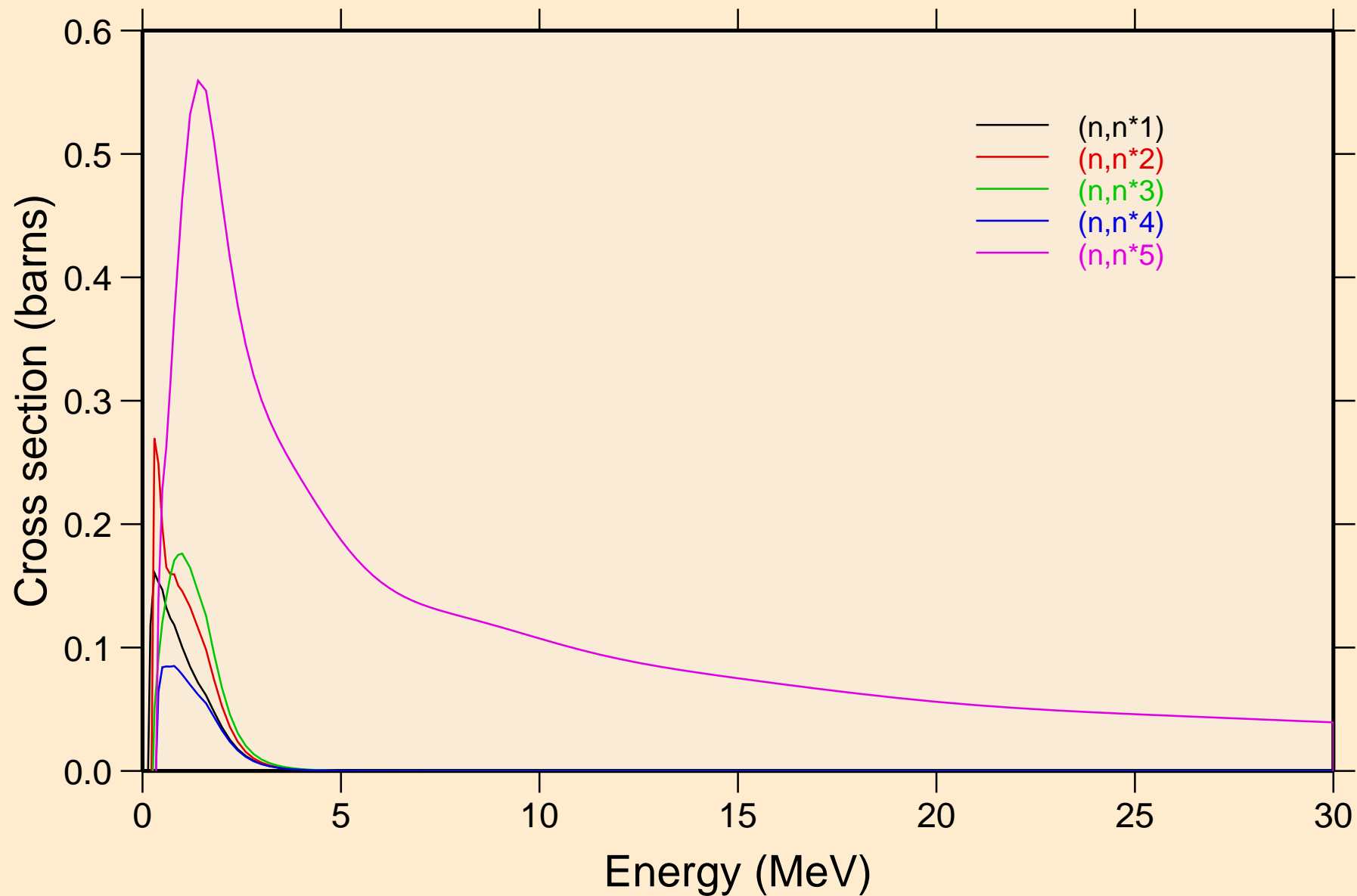
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



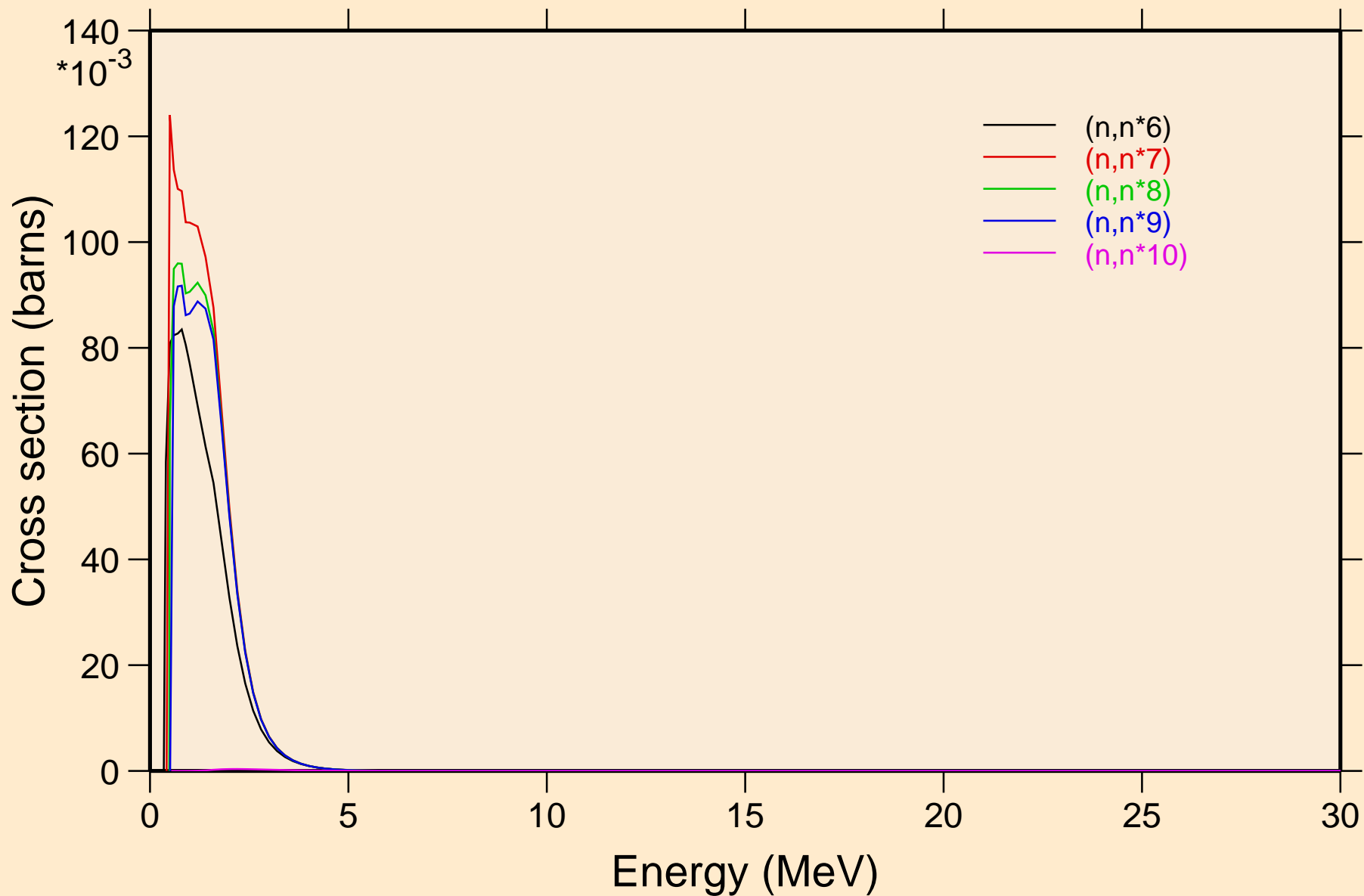
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



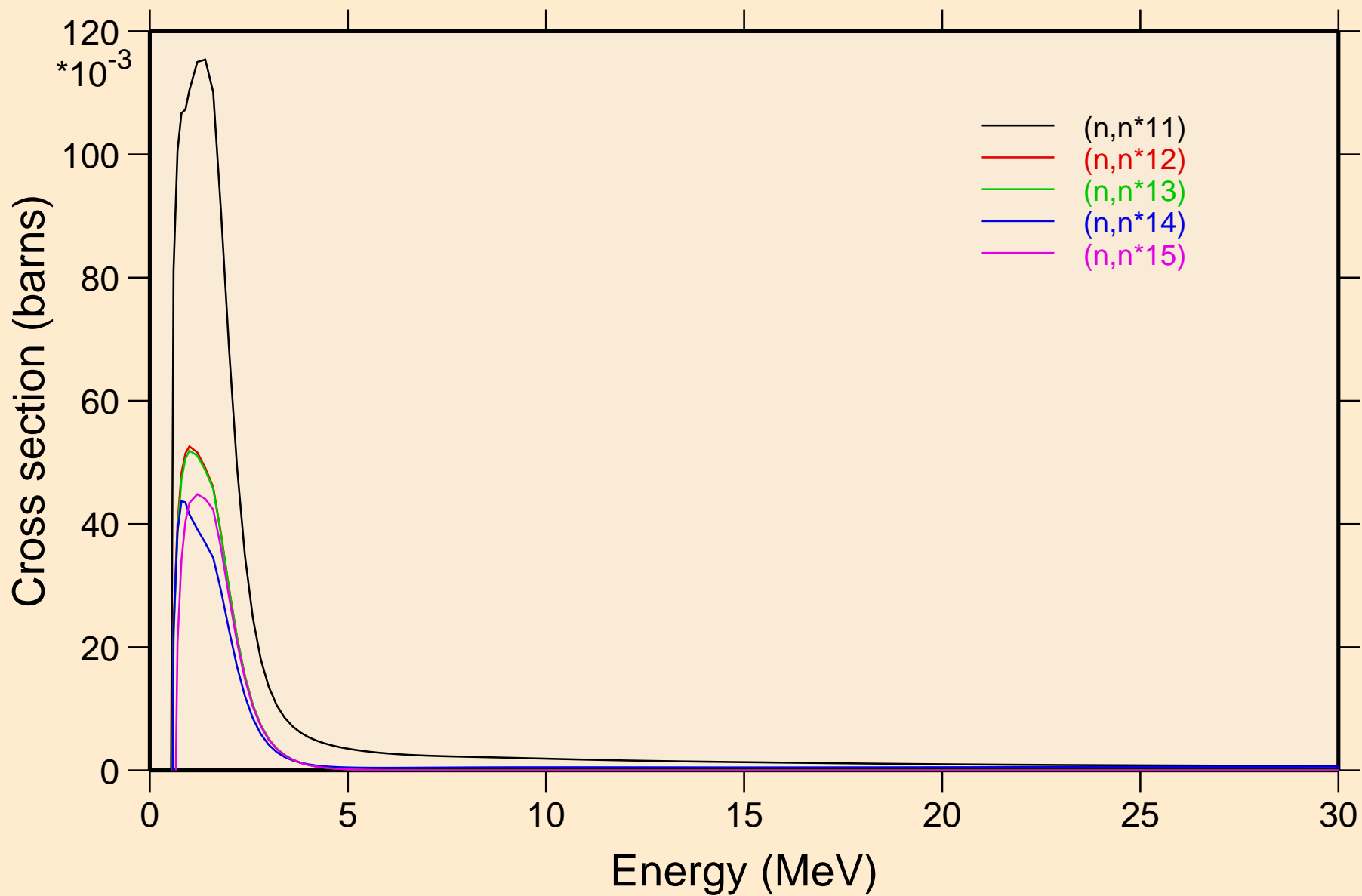
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



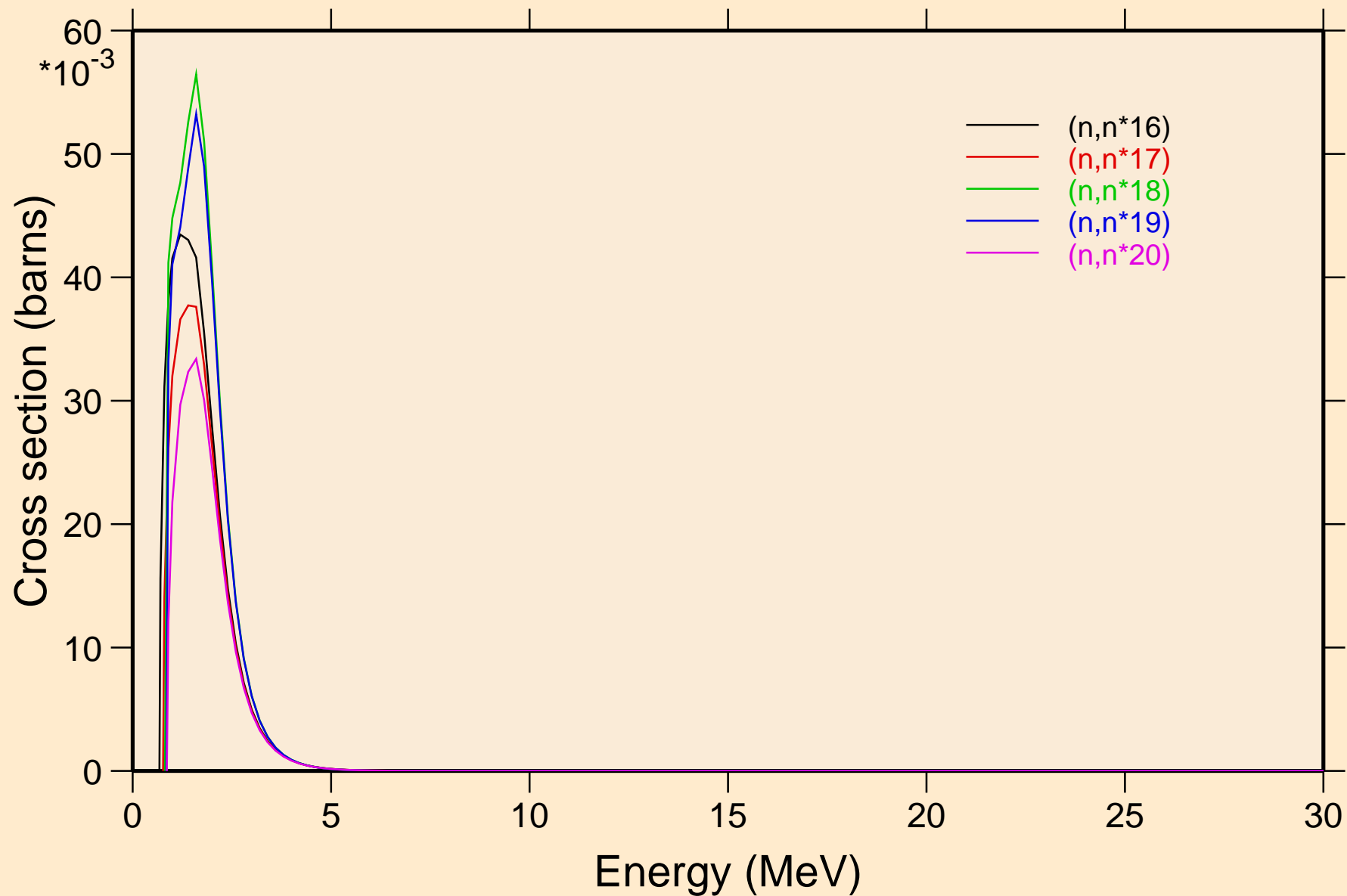
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



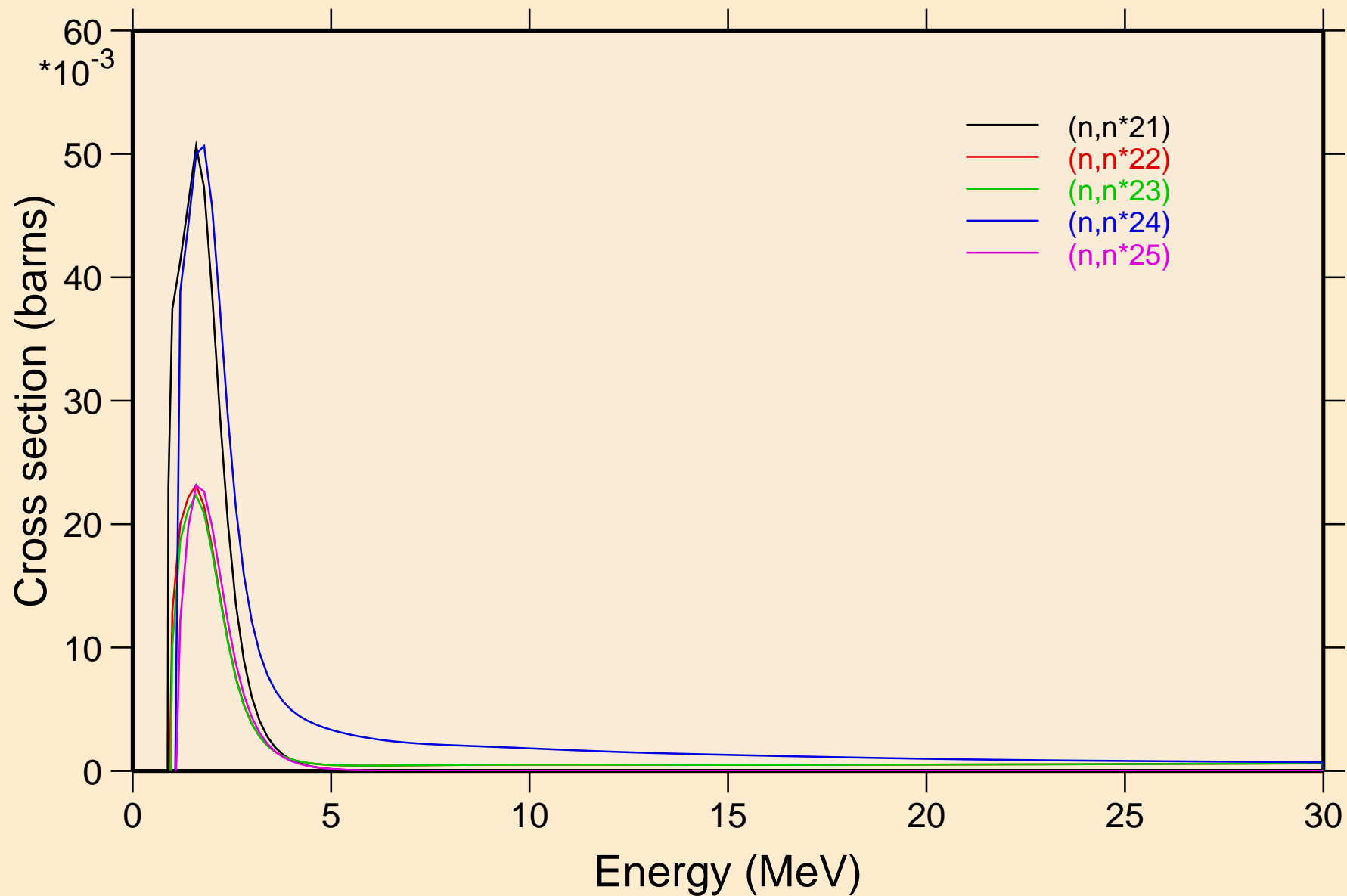
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Inelastic levels



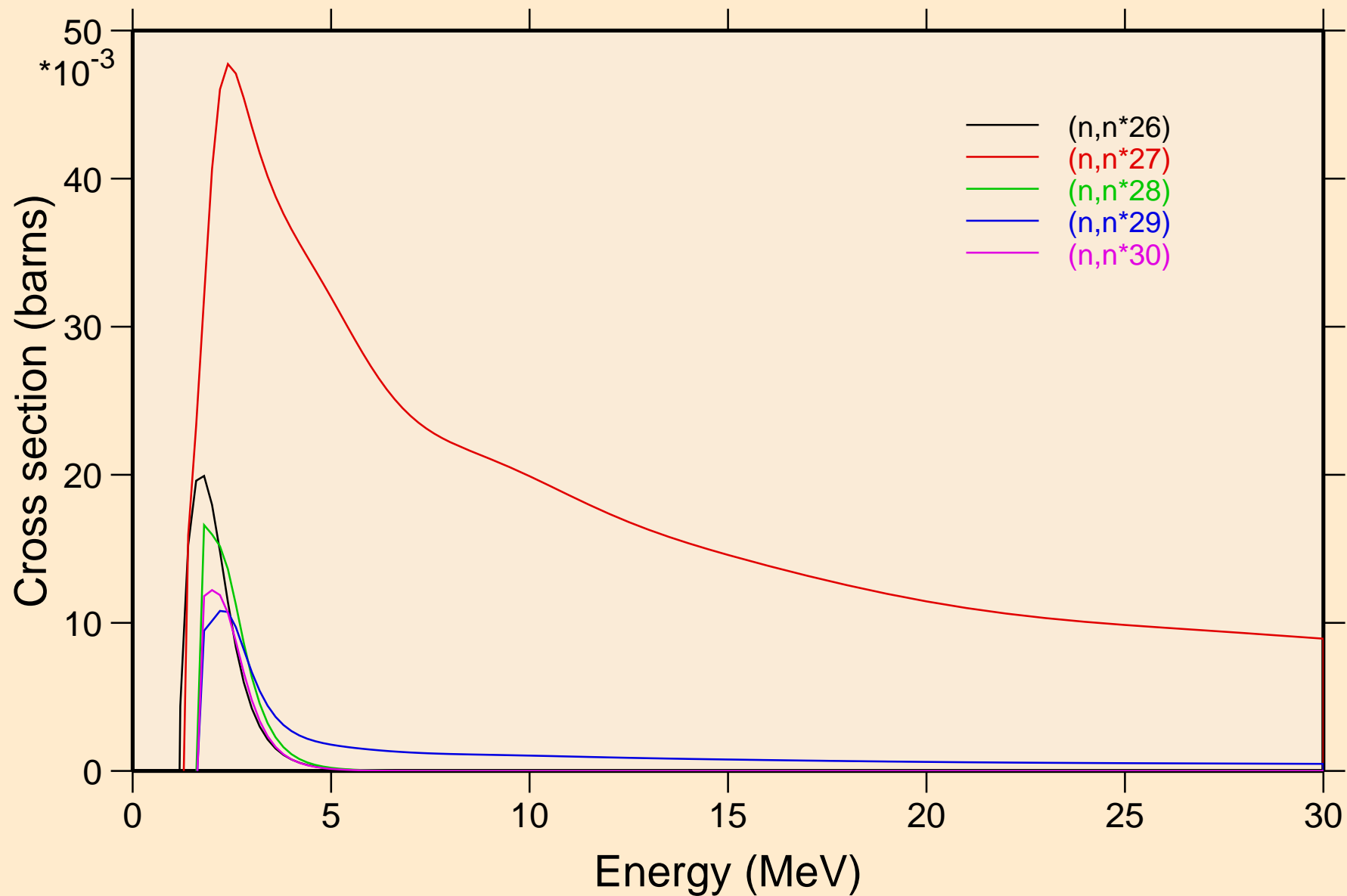
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

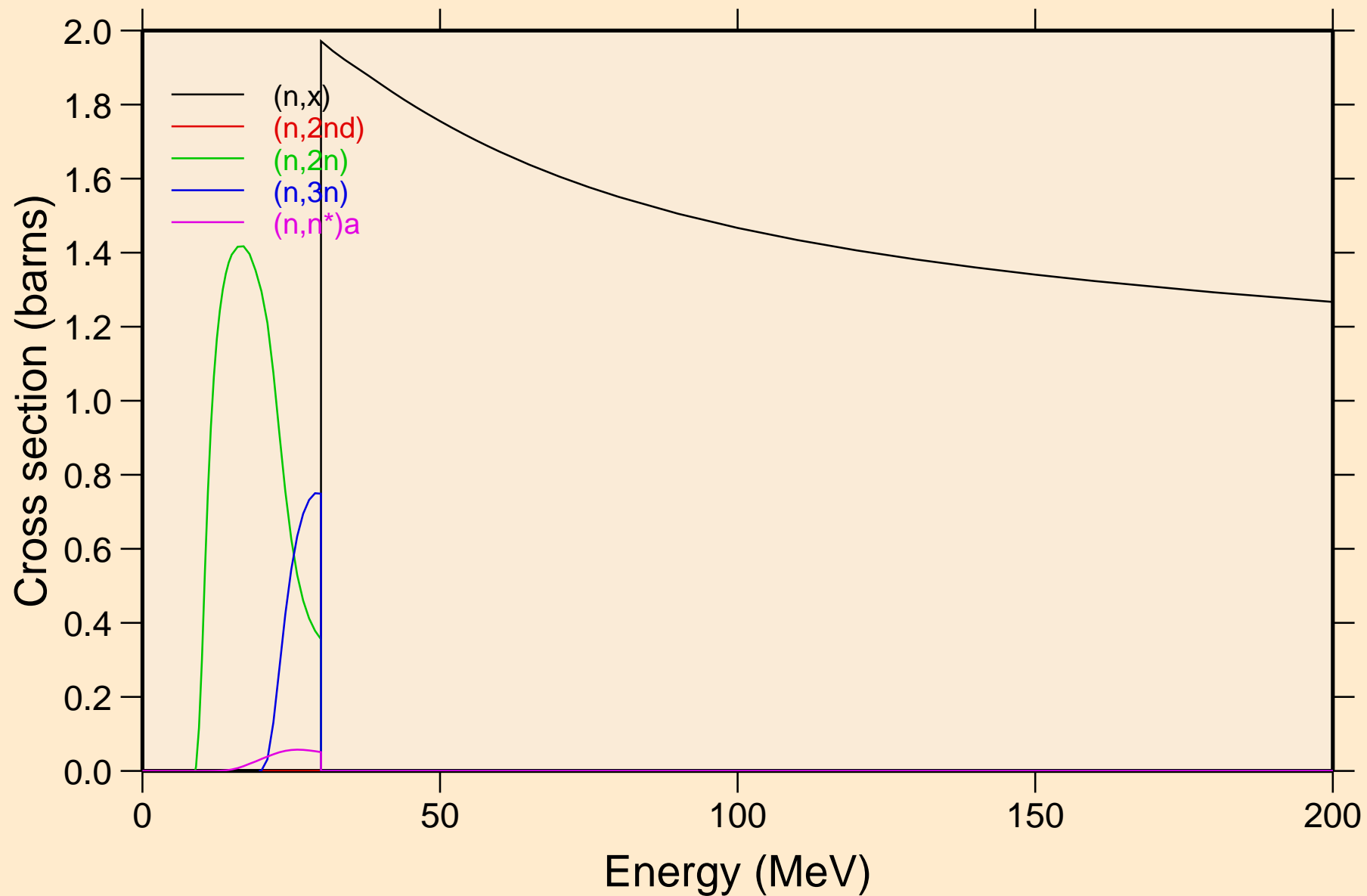


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

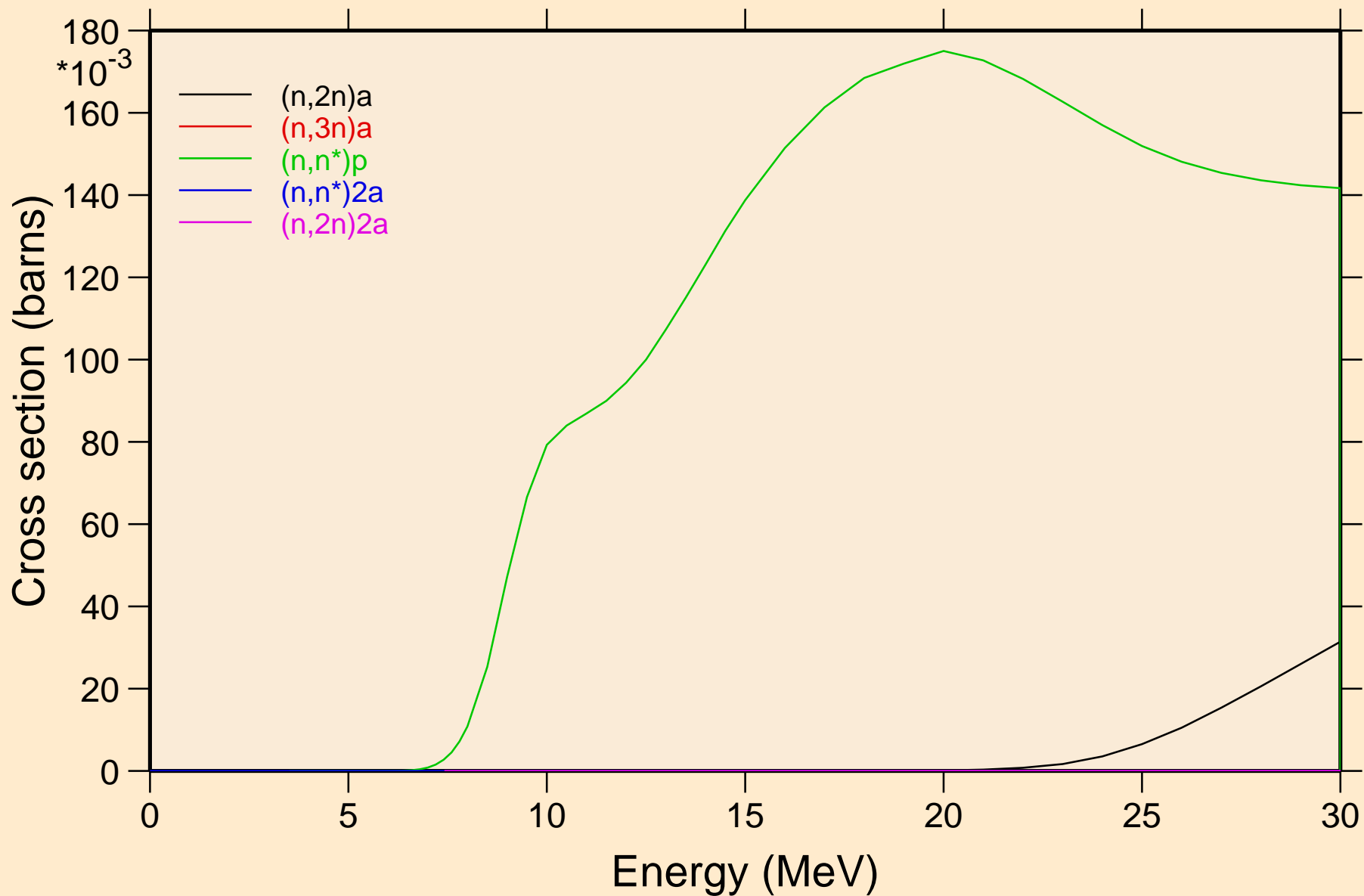




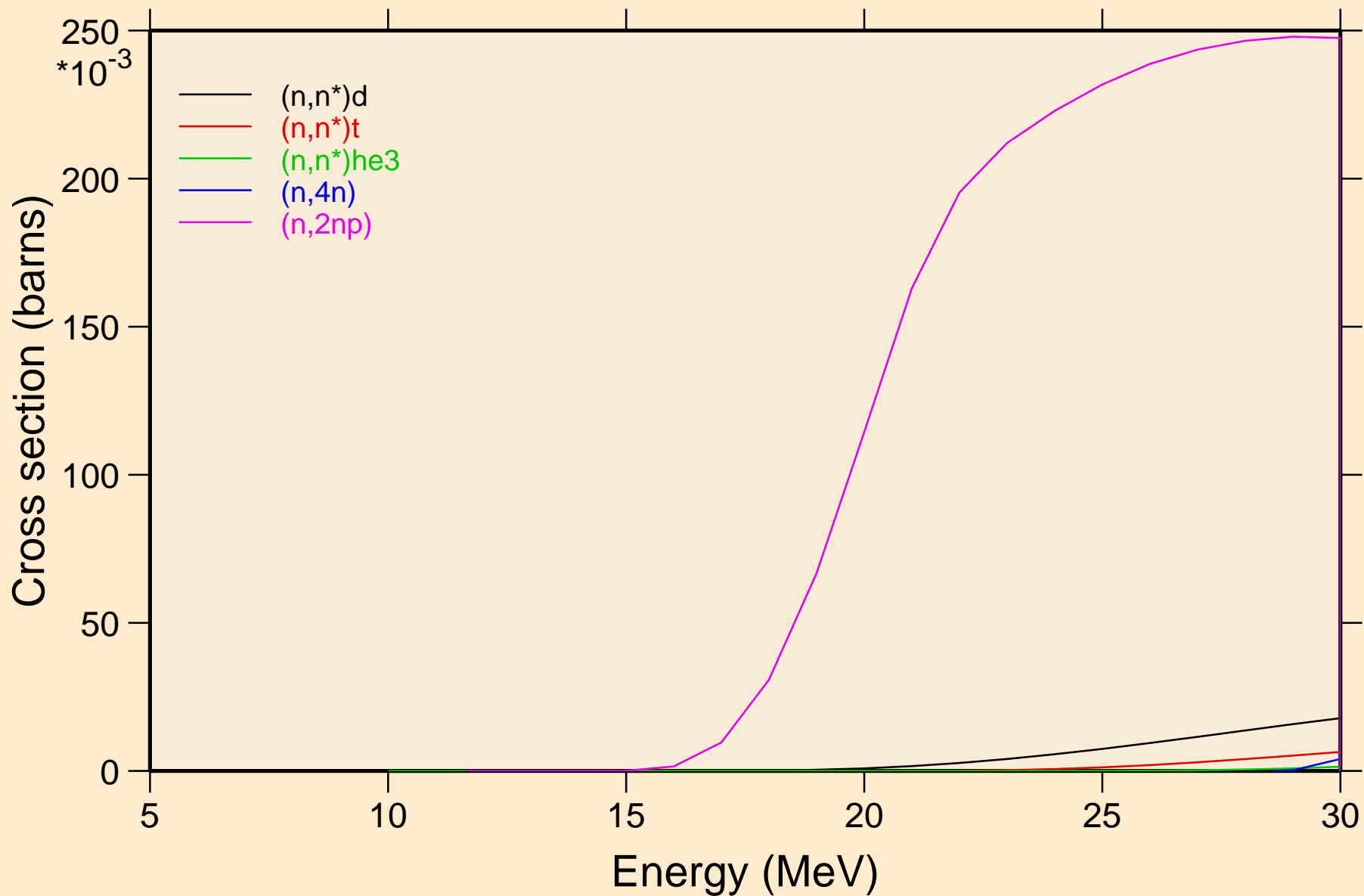
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Threshold reactions



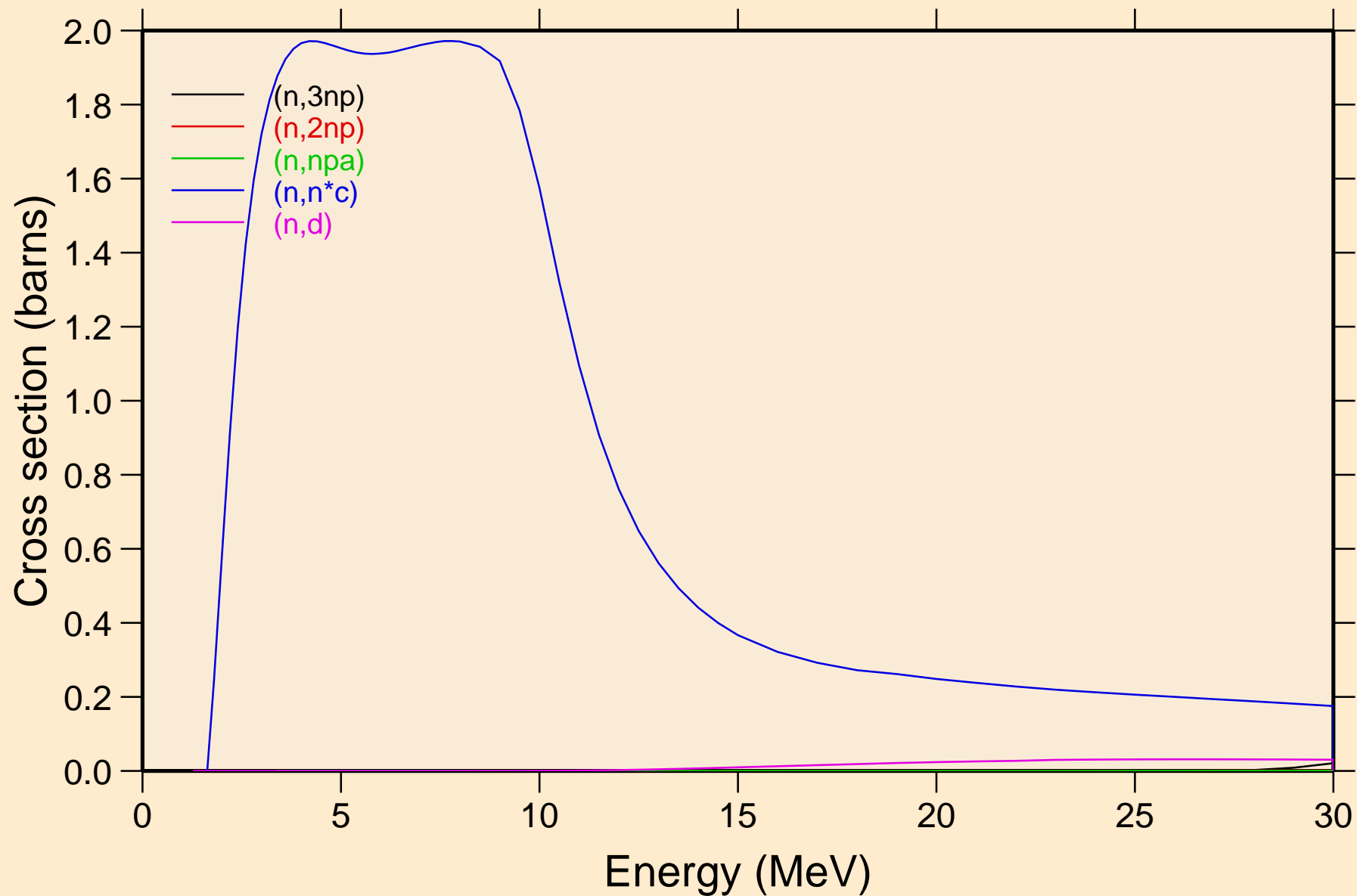
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



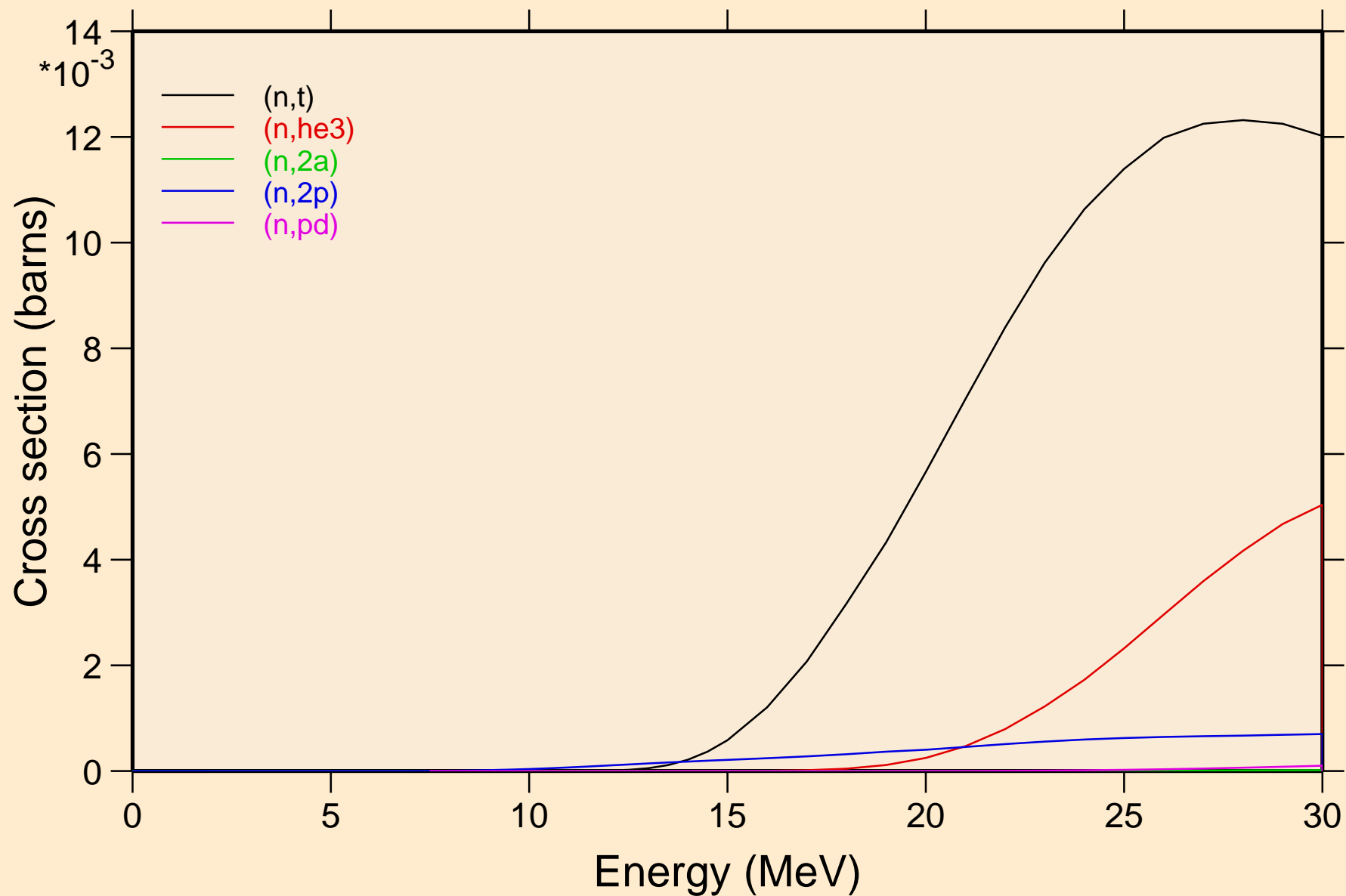
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



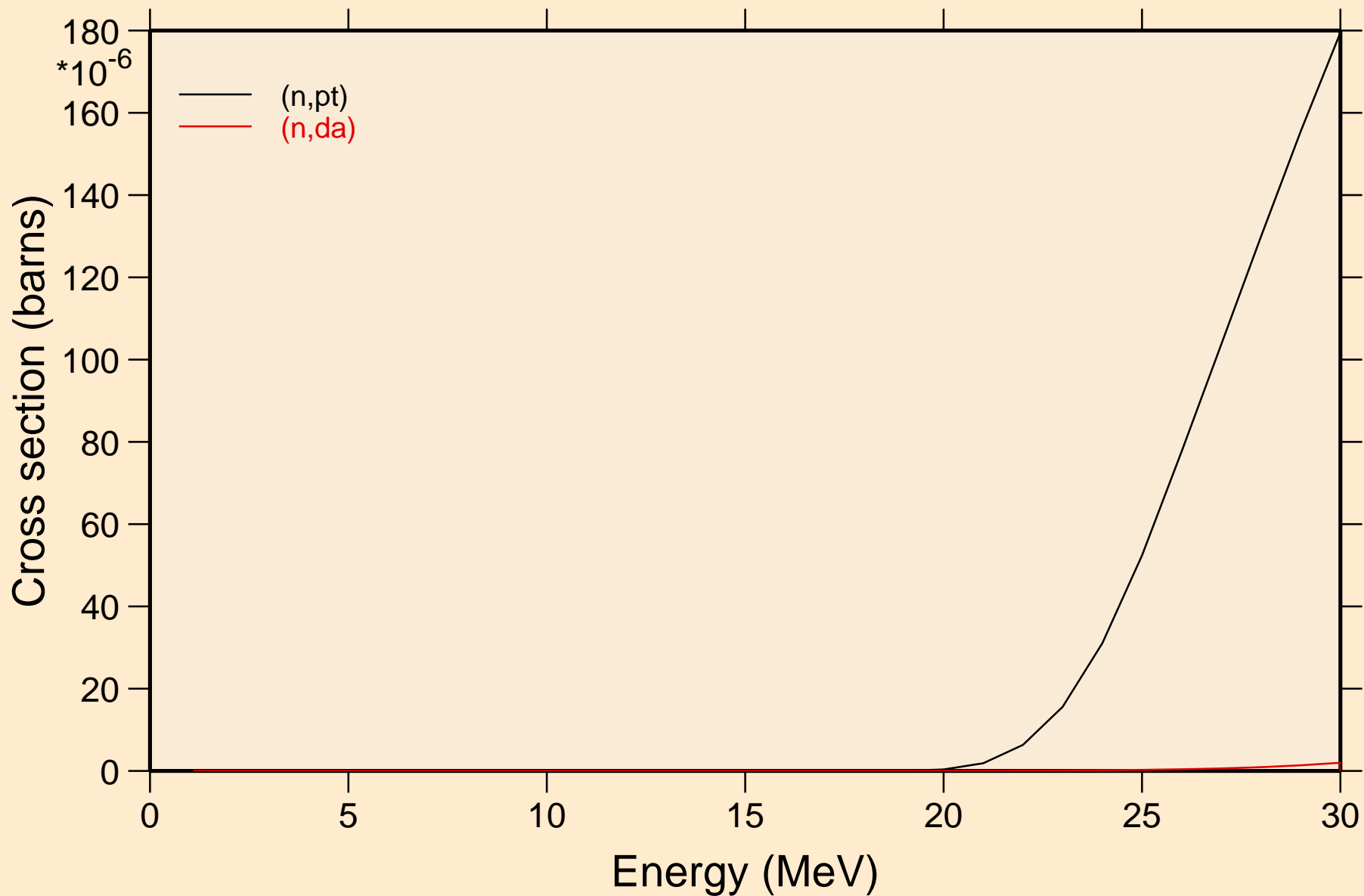
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



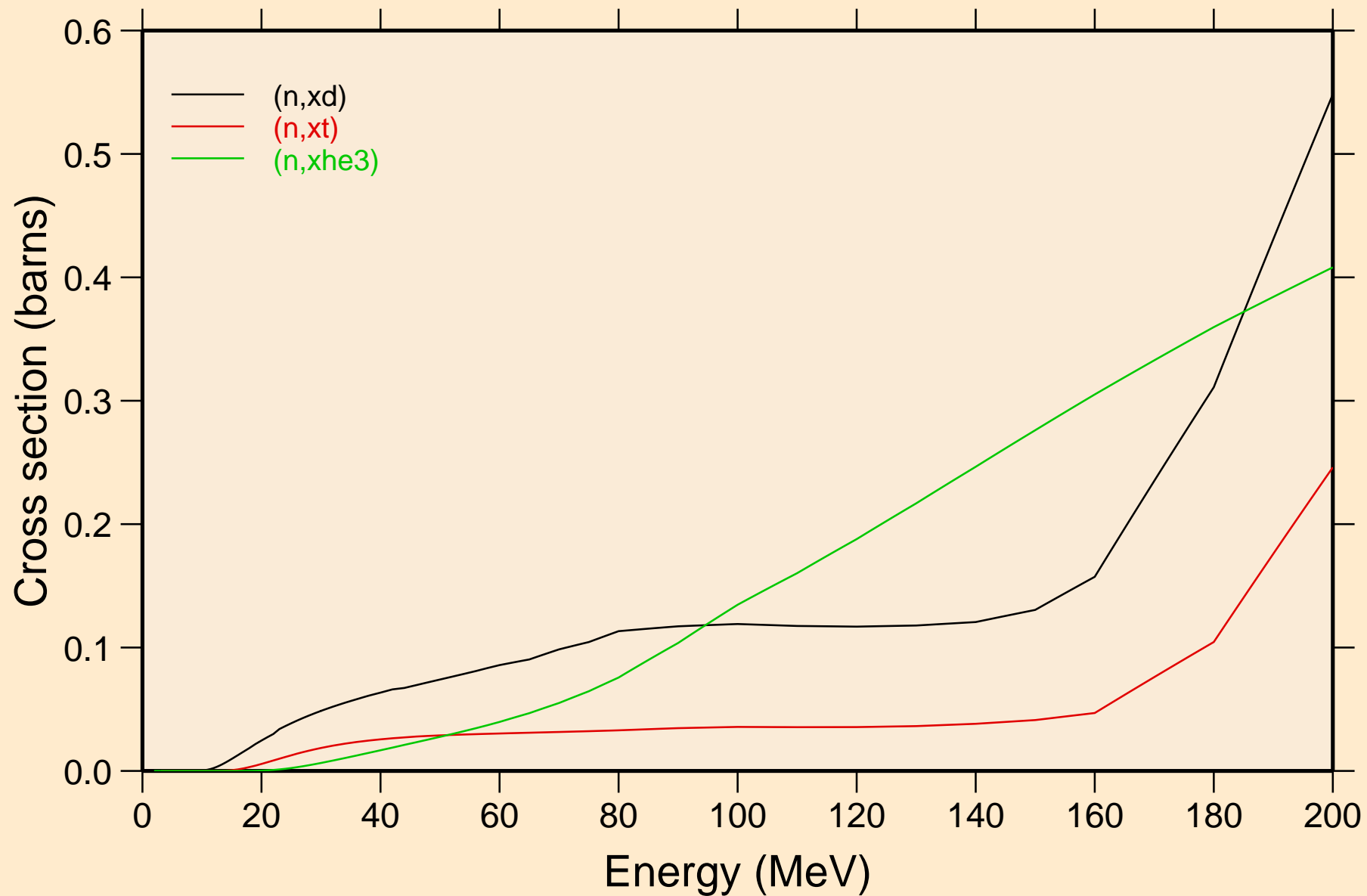
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



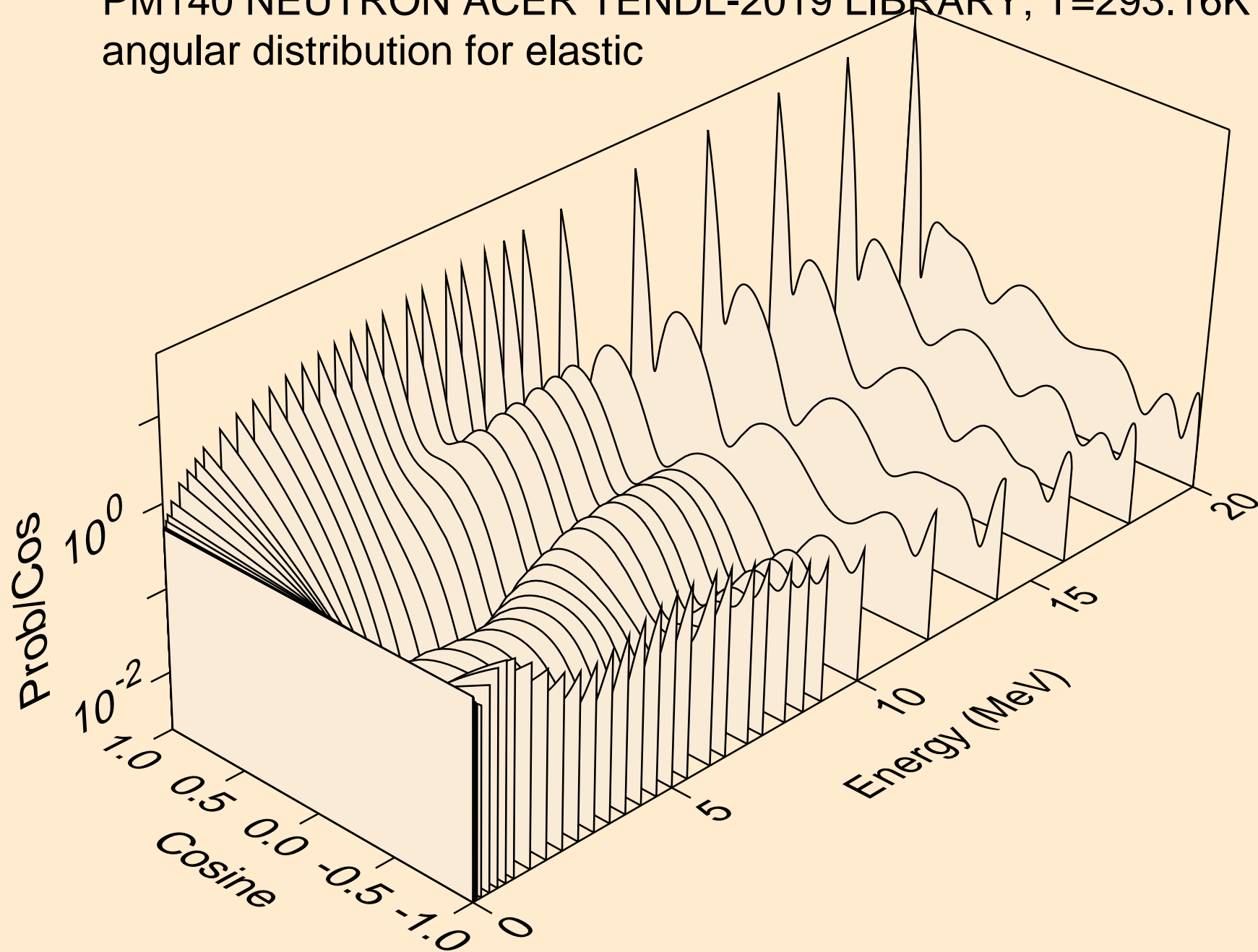
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Threshold reactions



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

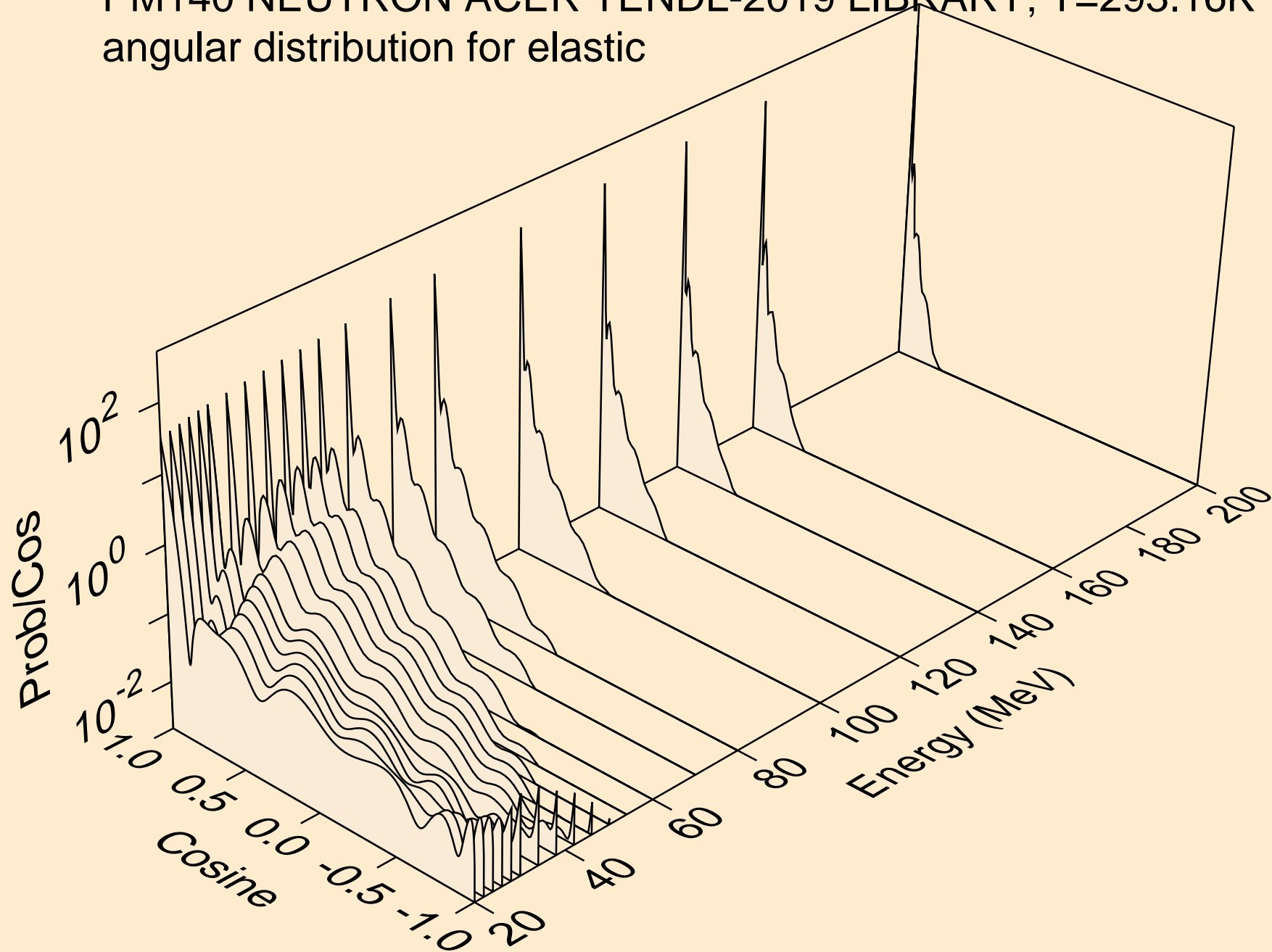


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

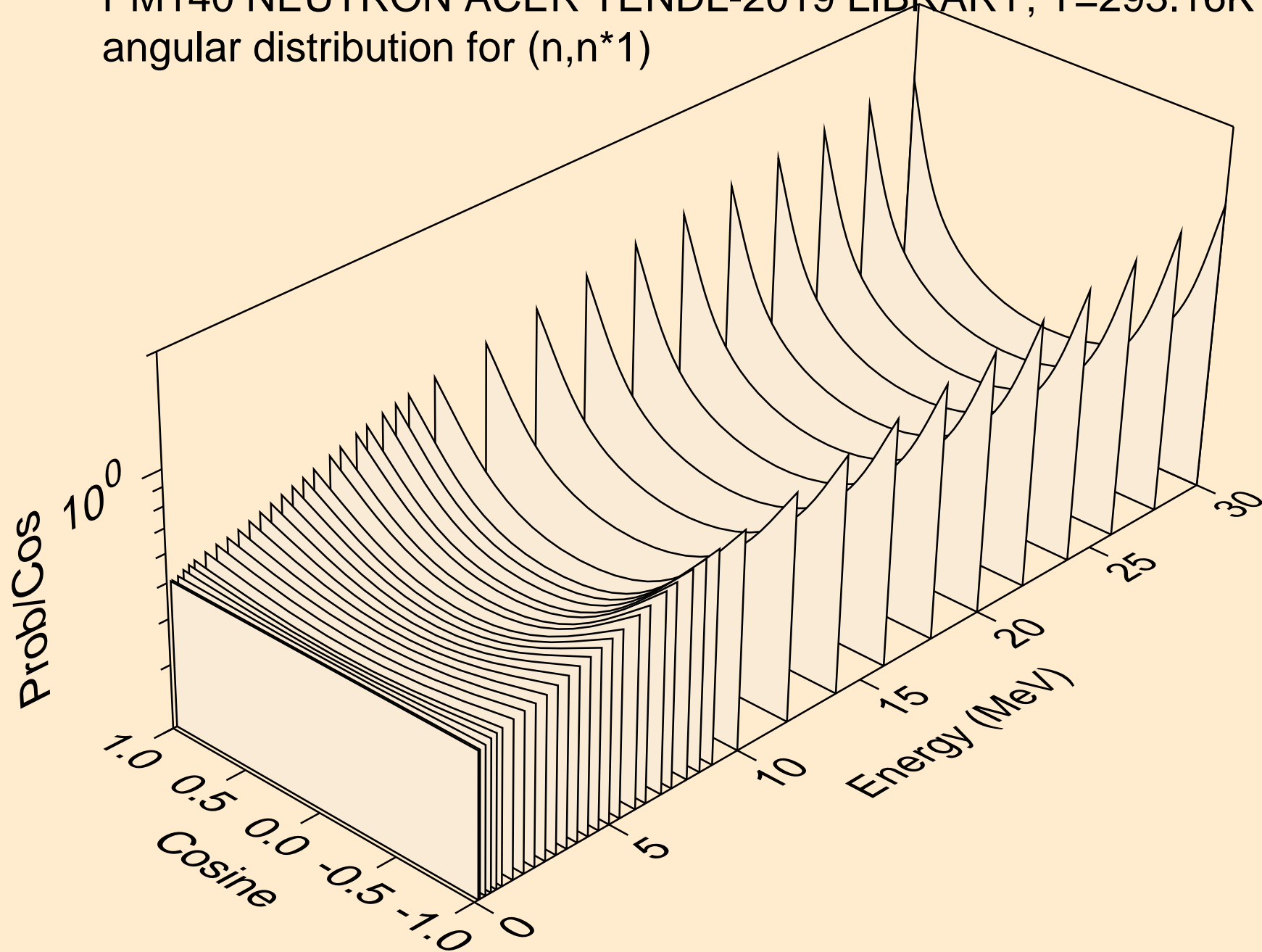




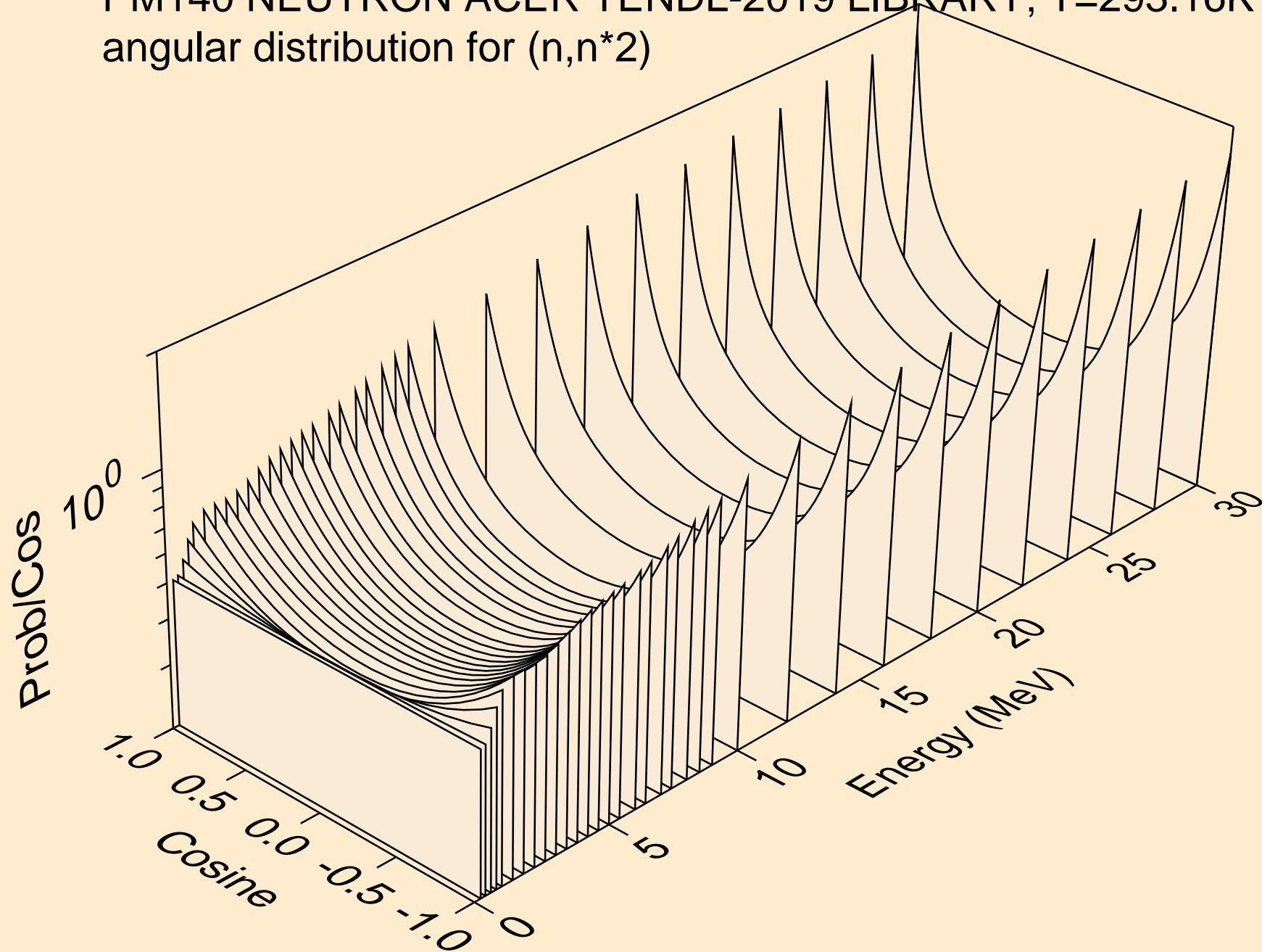
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angular distribution for elastic



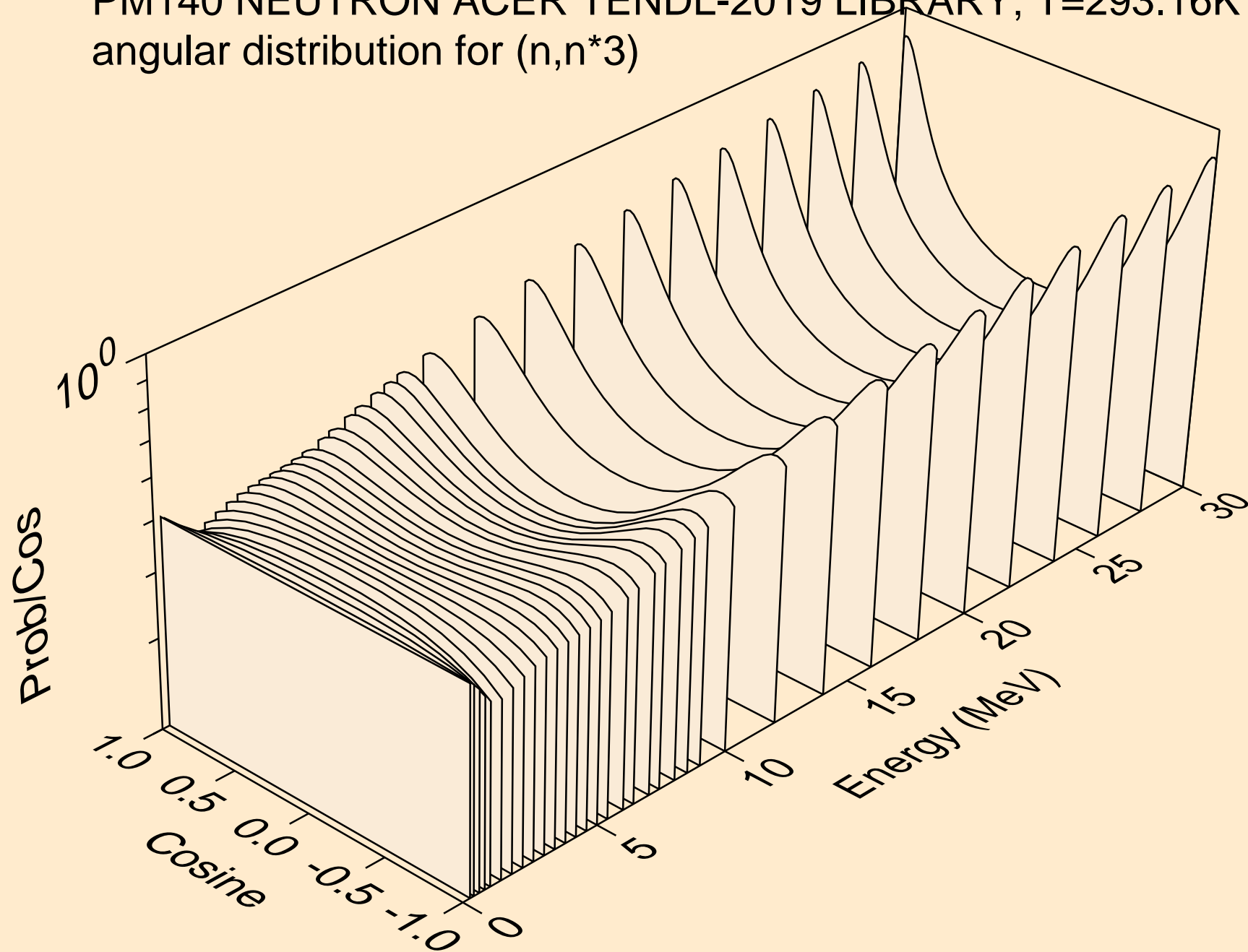
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angular distribution for (n,n\*1)



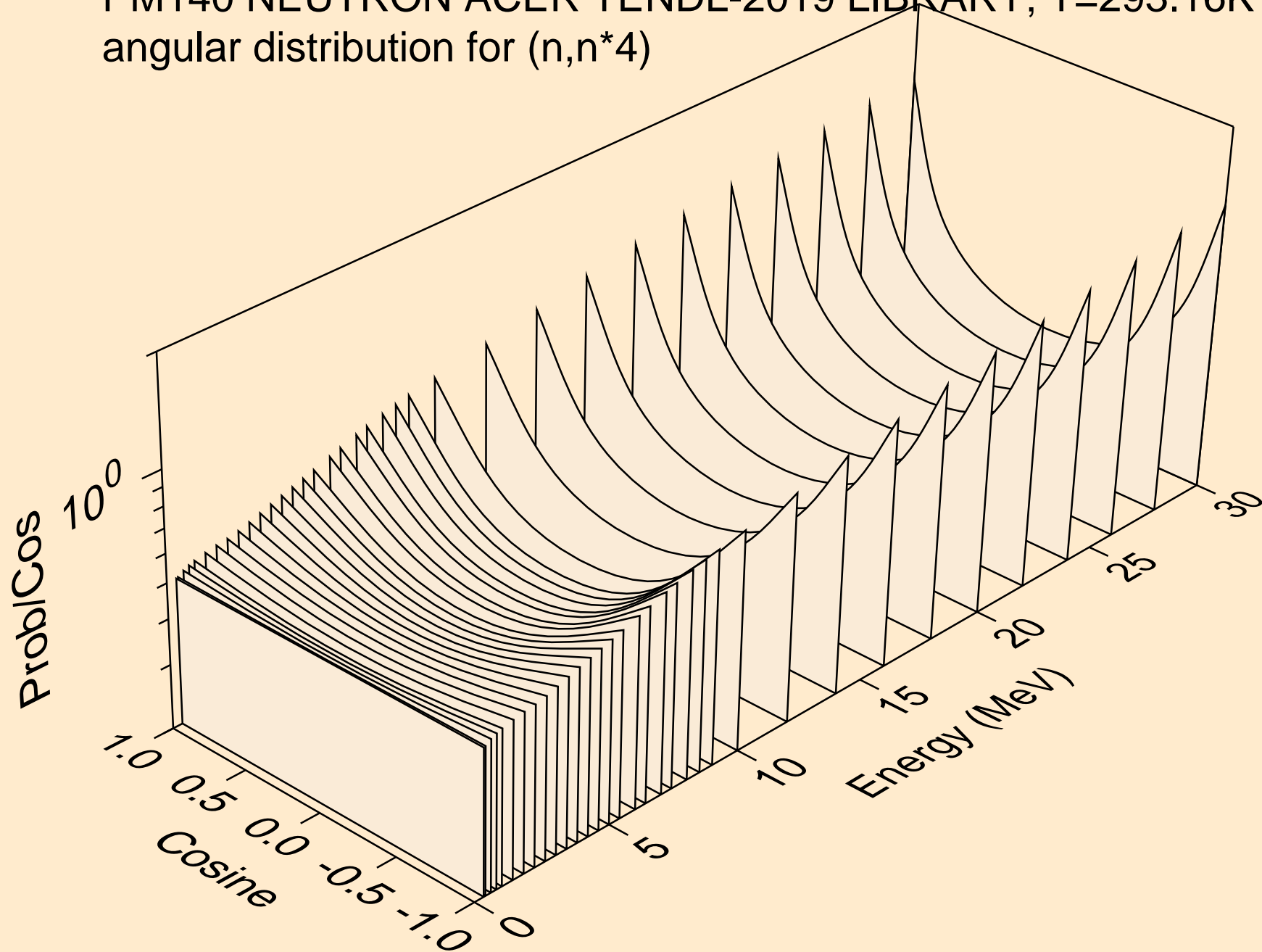
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angular distribution for (n,n\*2)



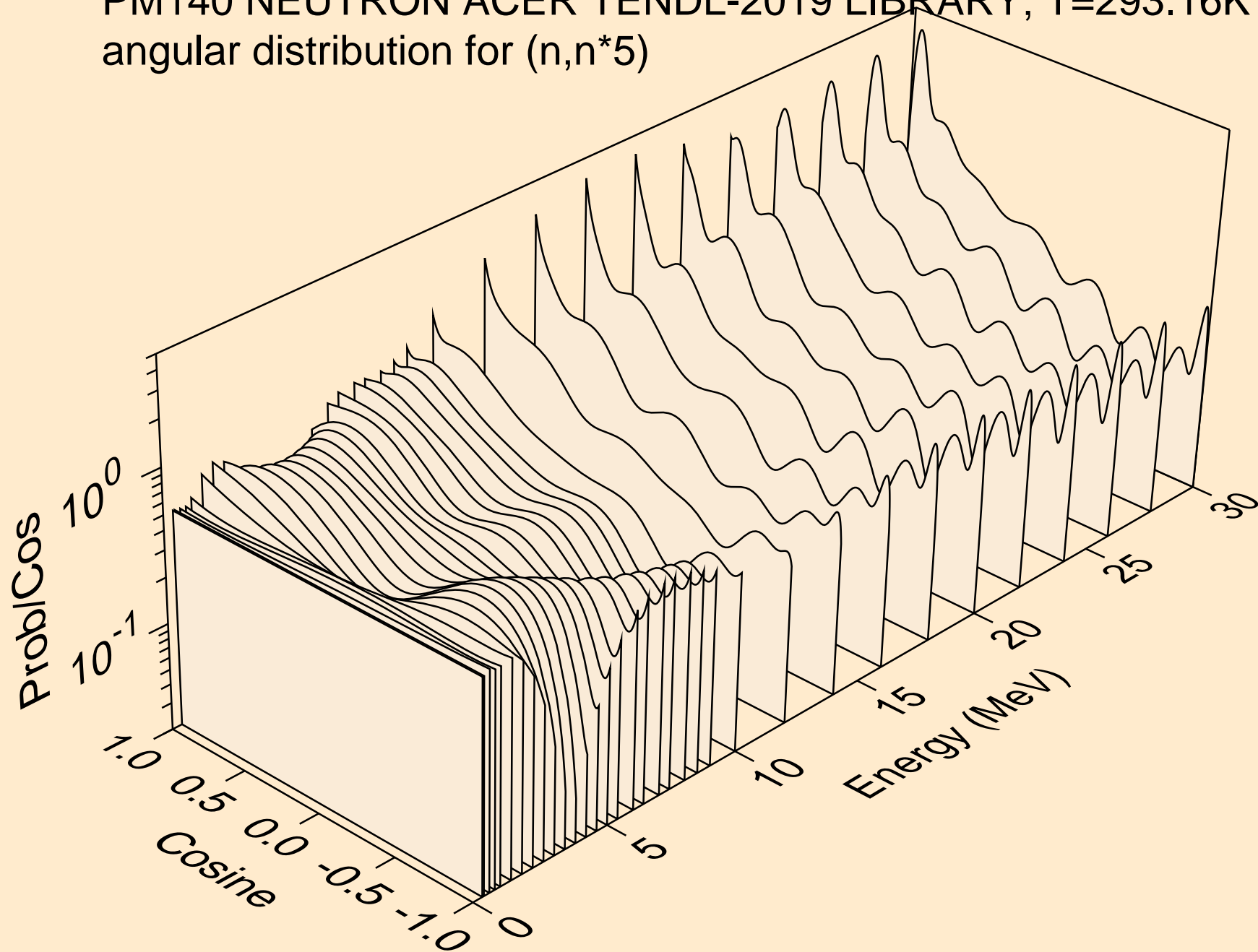
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angular distribution for (n,n\*3)



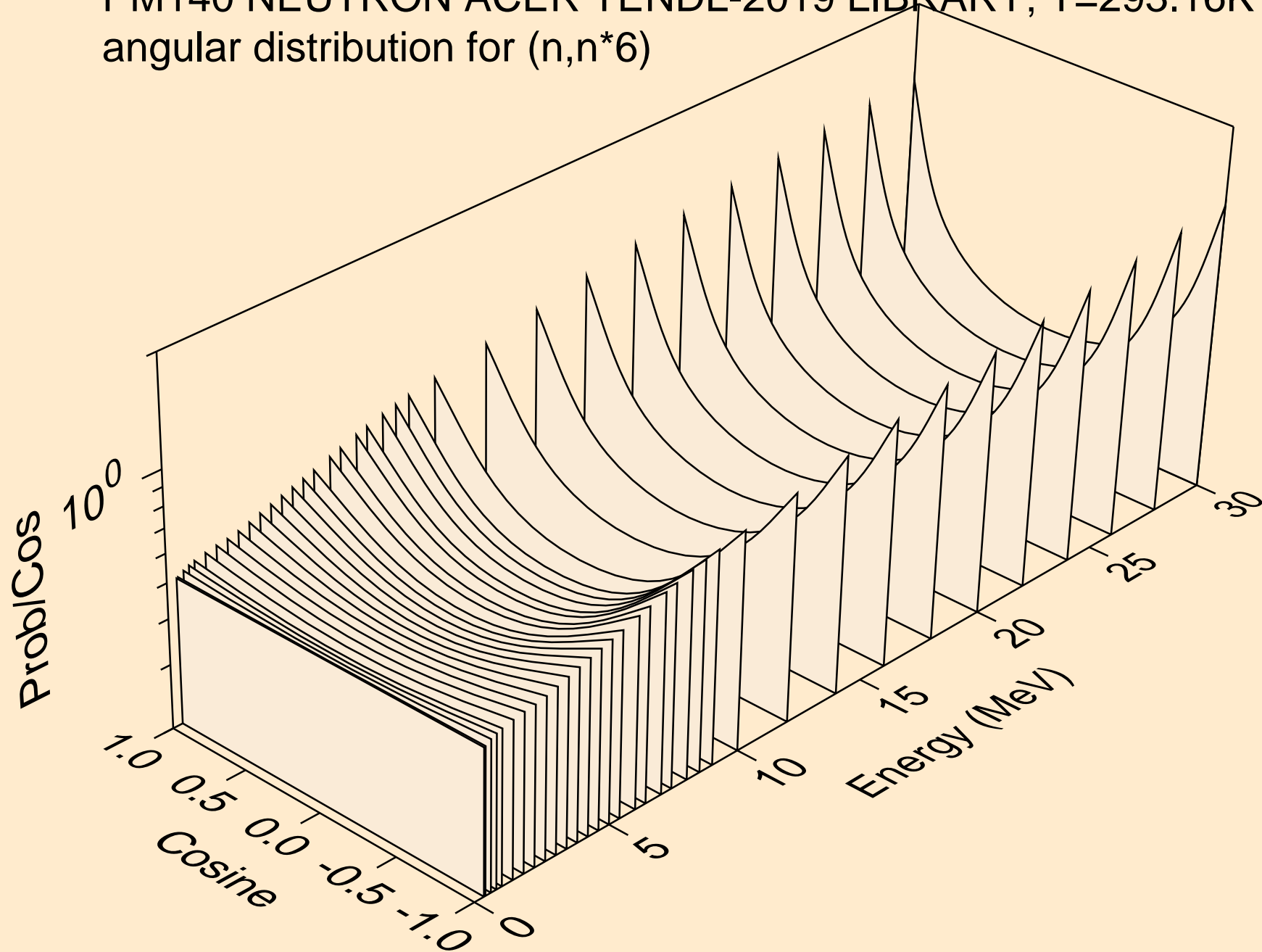
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angular distribution for (n,n\*4)



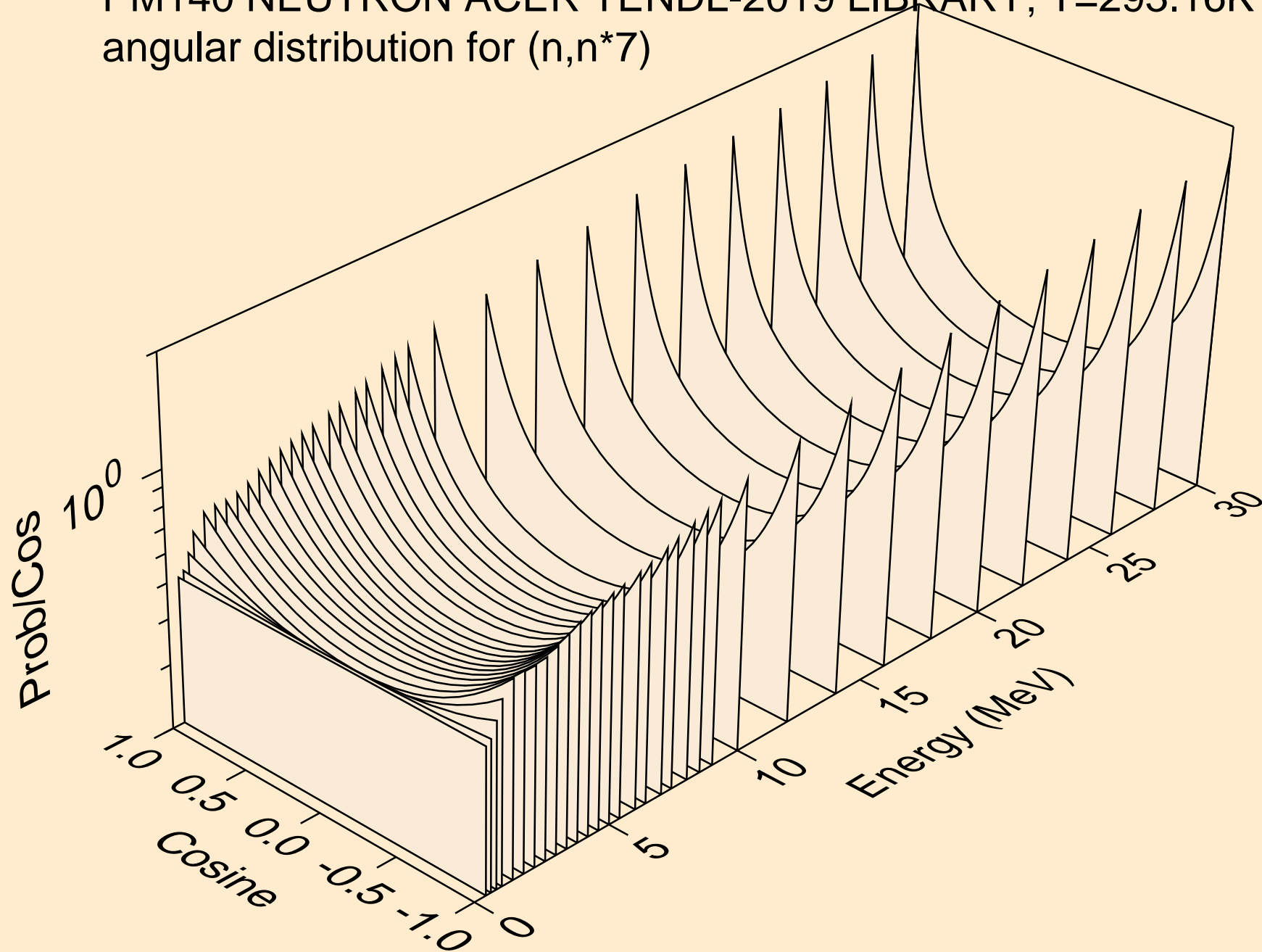
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*5)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*6)

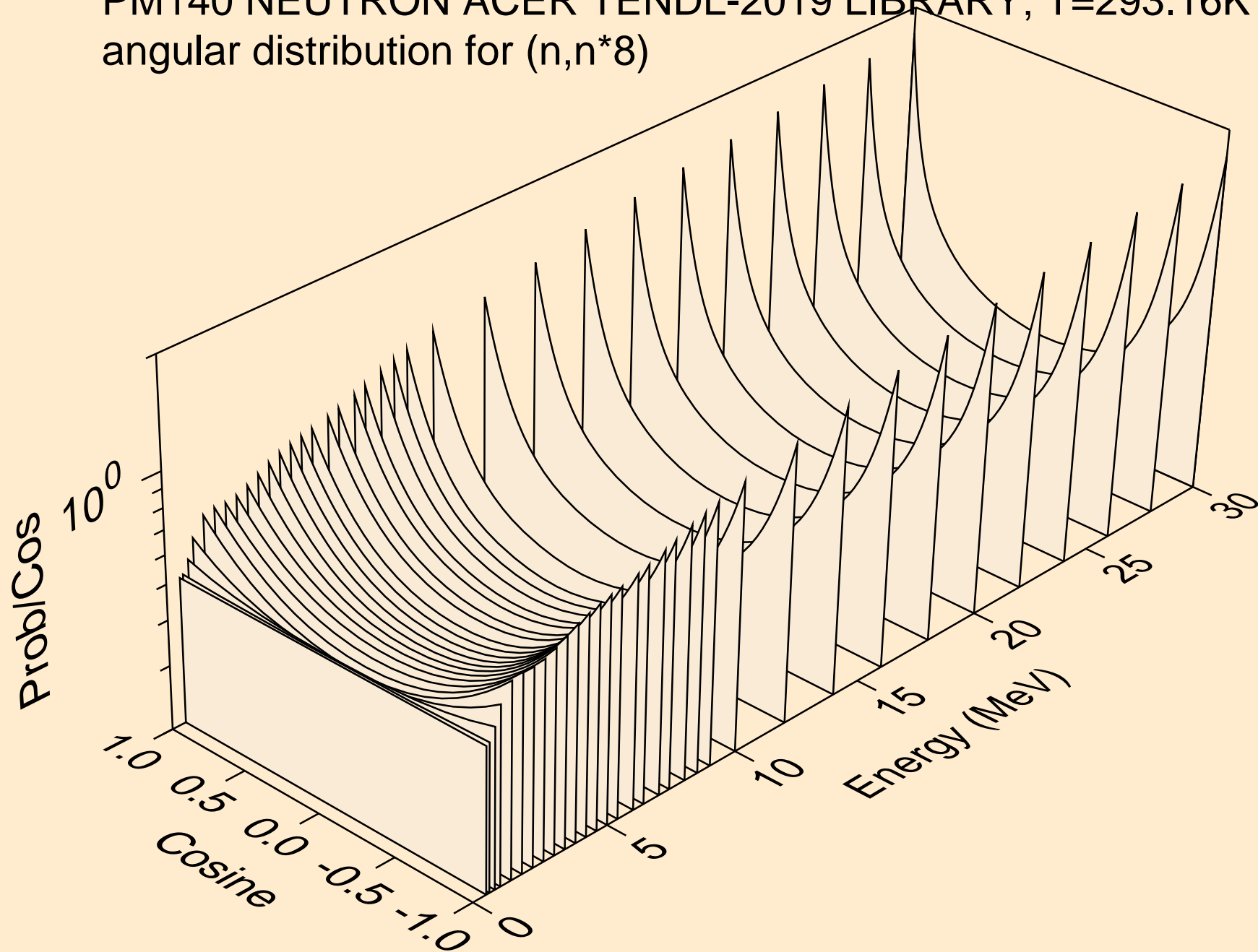


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*7)

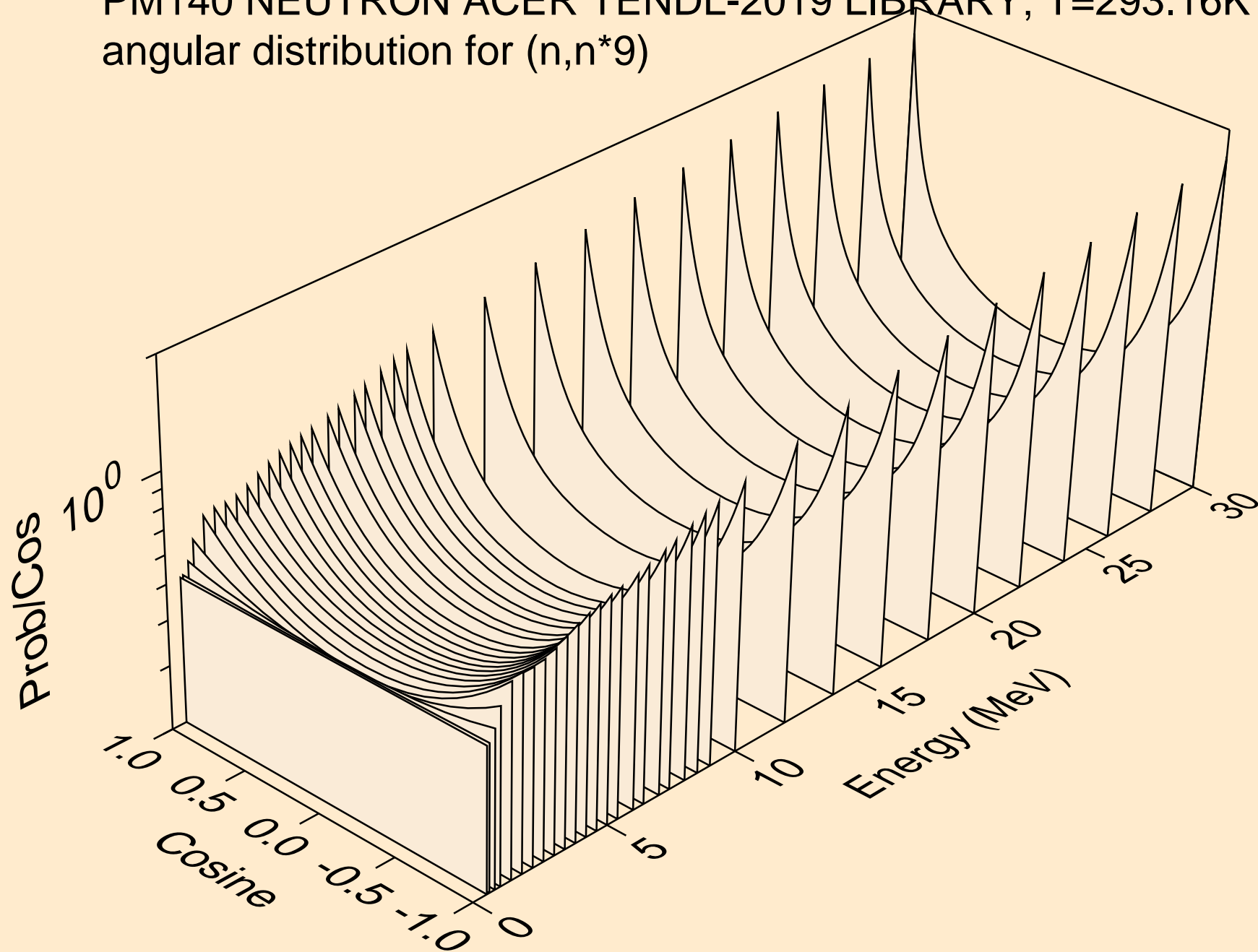




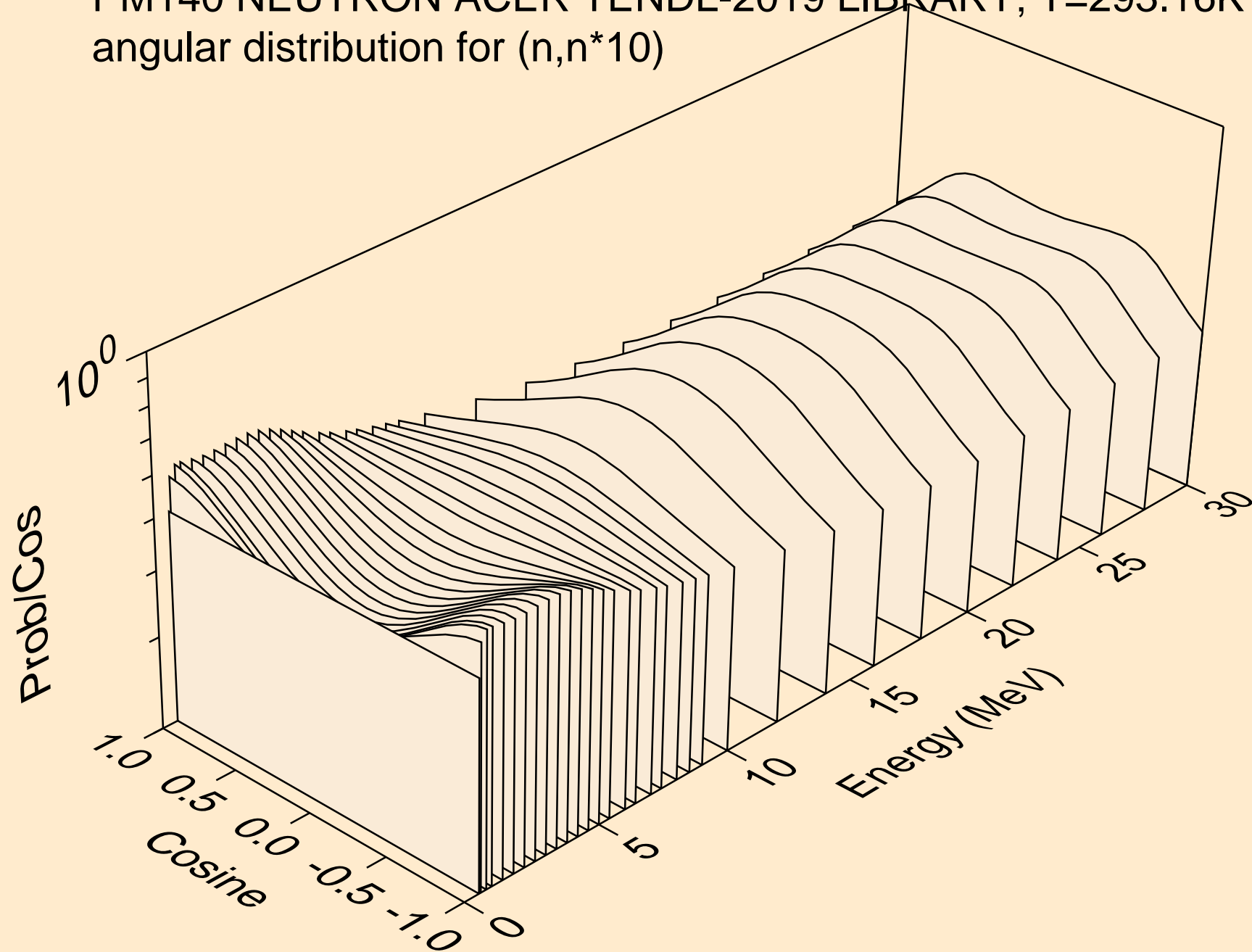
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angular distribution for (n,n\*8)



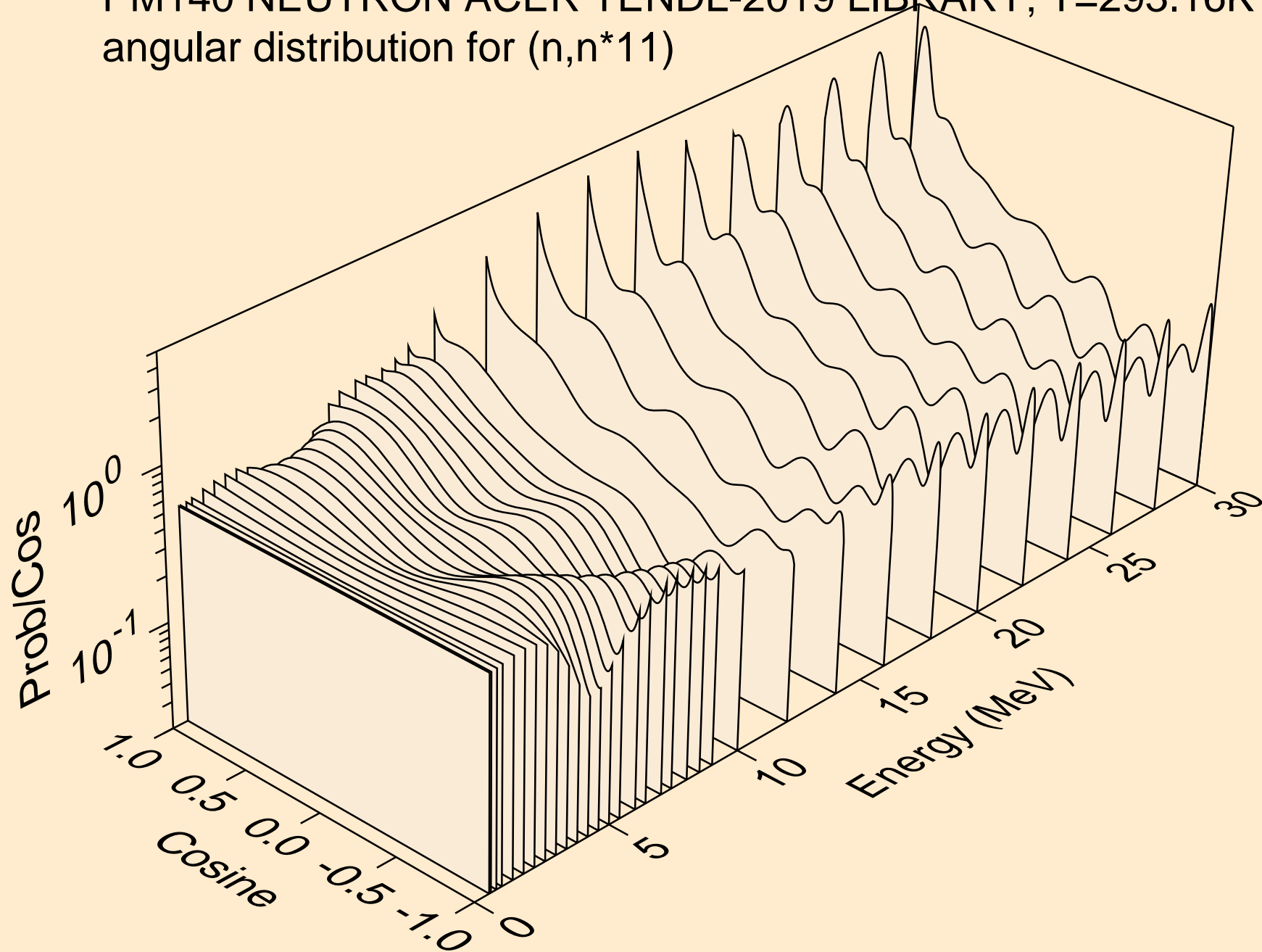
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angular distribution for (n,n\*9)



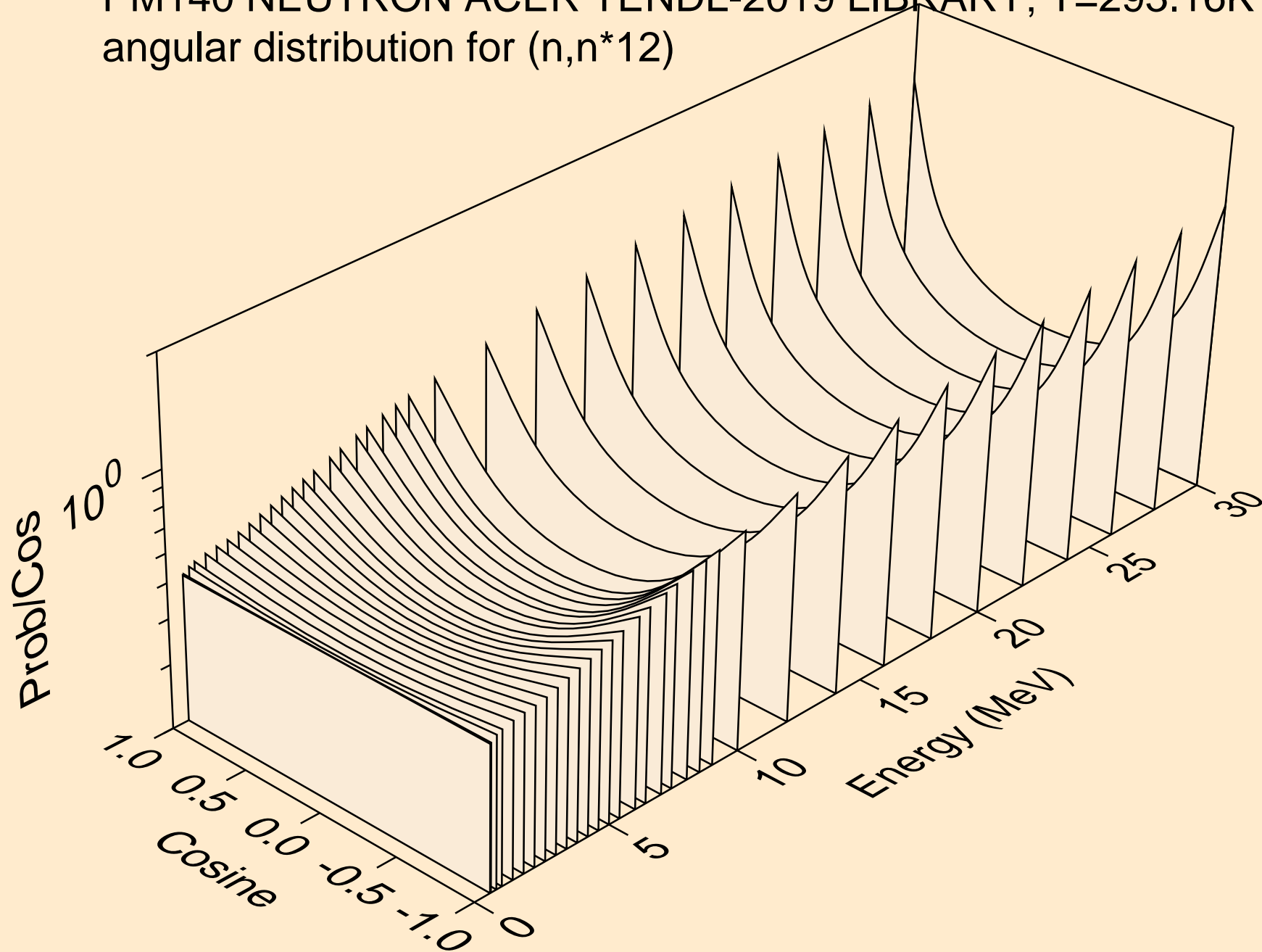
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angular distribution for (n,n\*10)



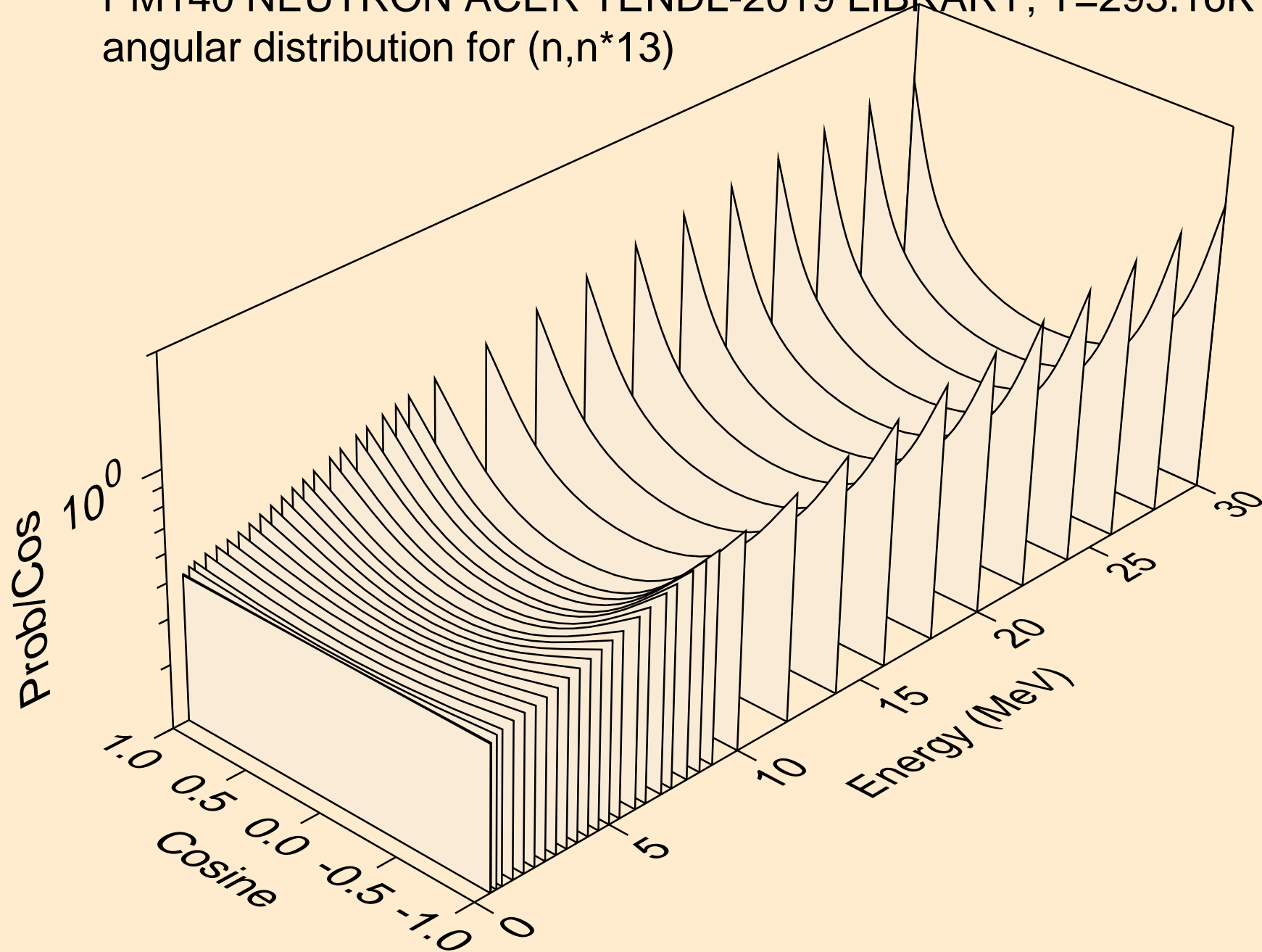
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angular distribution for (n,n\*11)



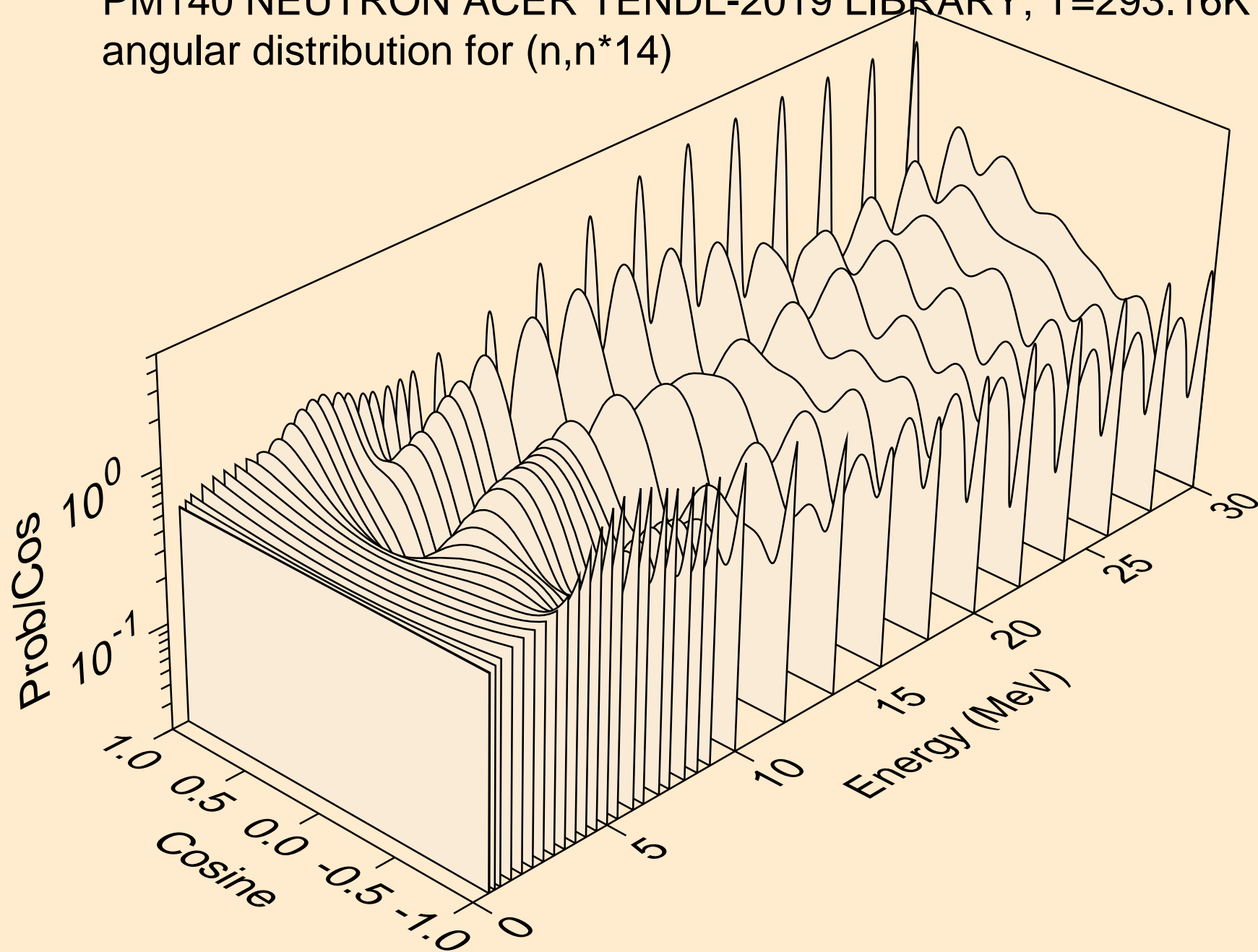
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angular distribution for (n,n\*12)



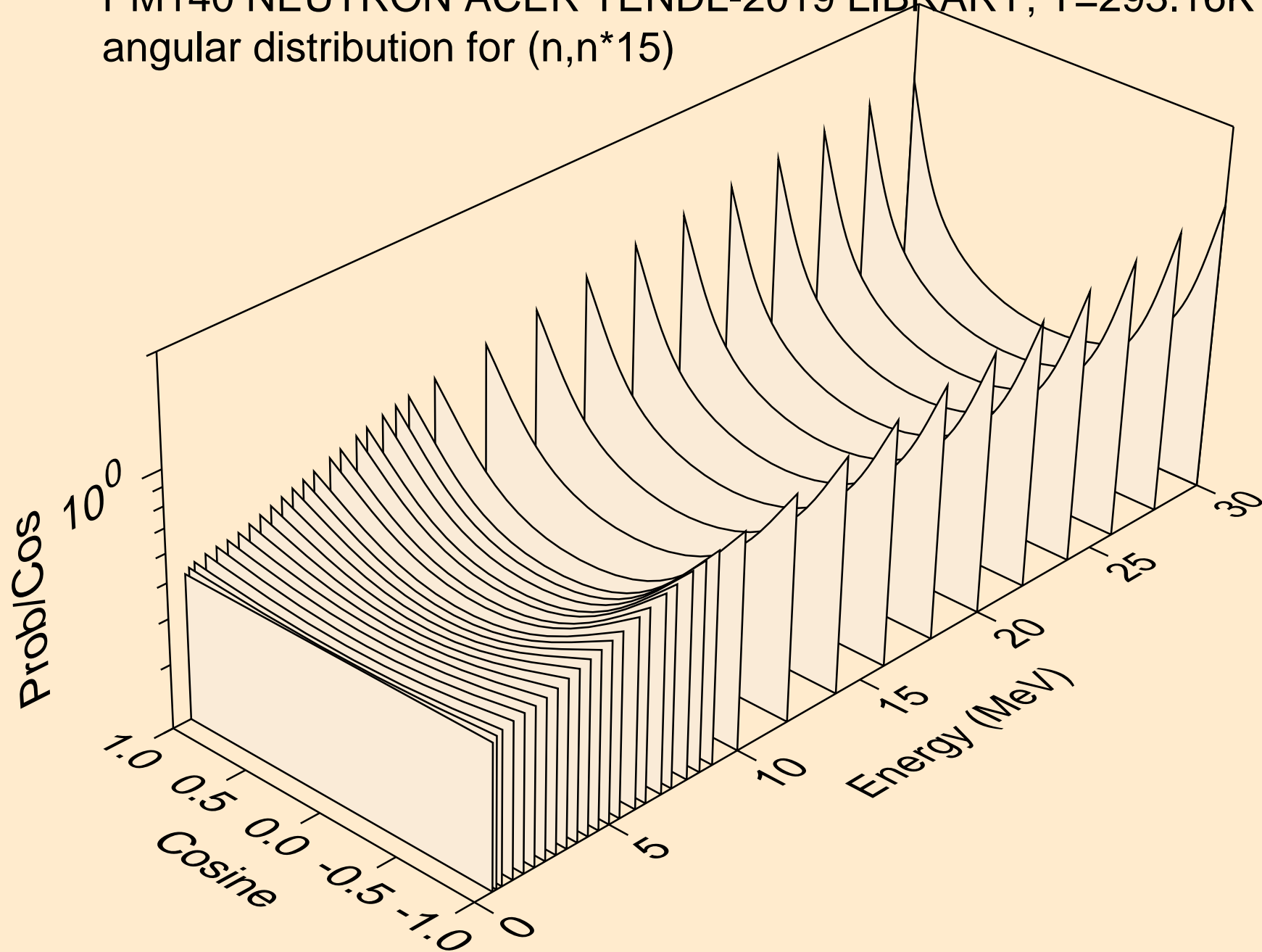
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*13)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*14)

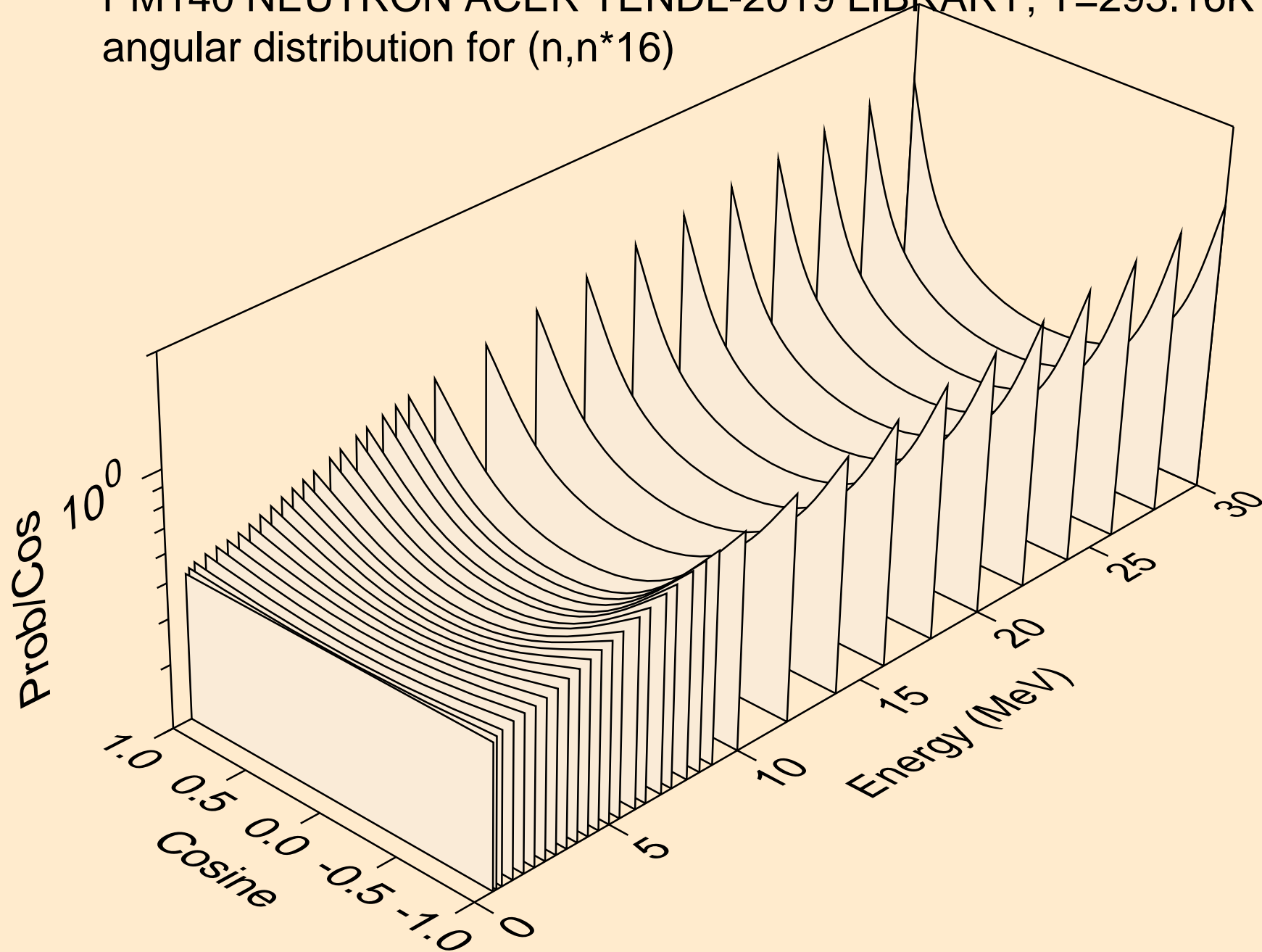


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angular distribution for (n,n\*15)

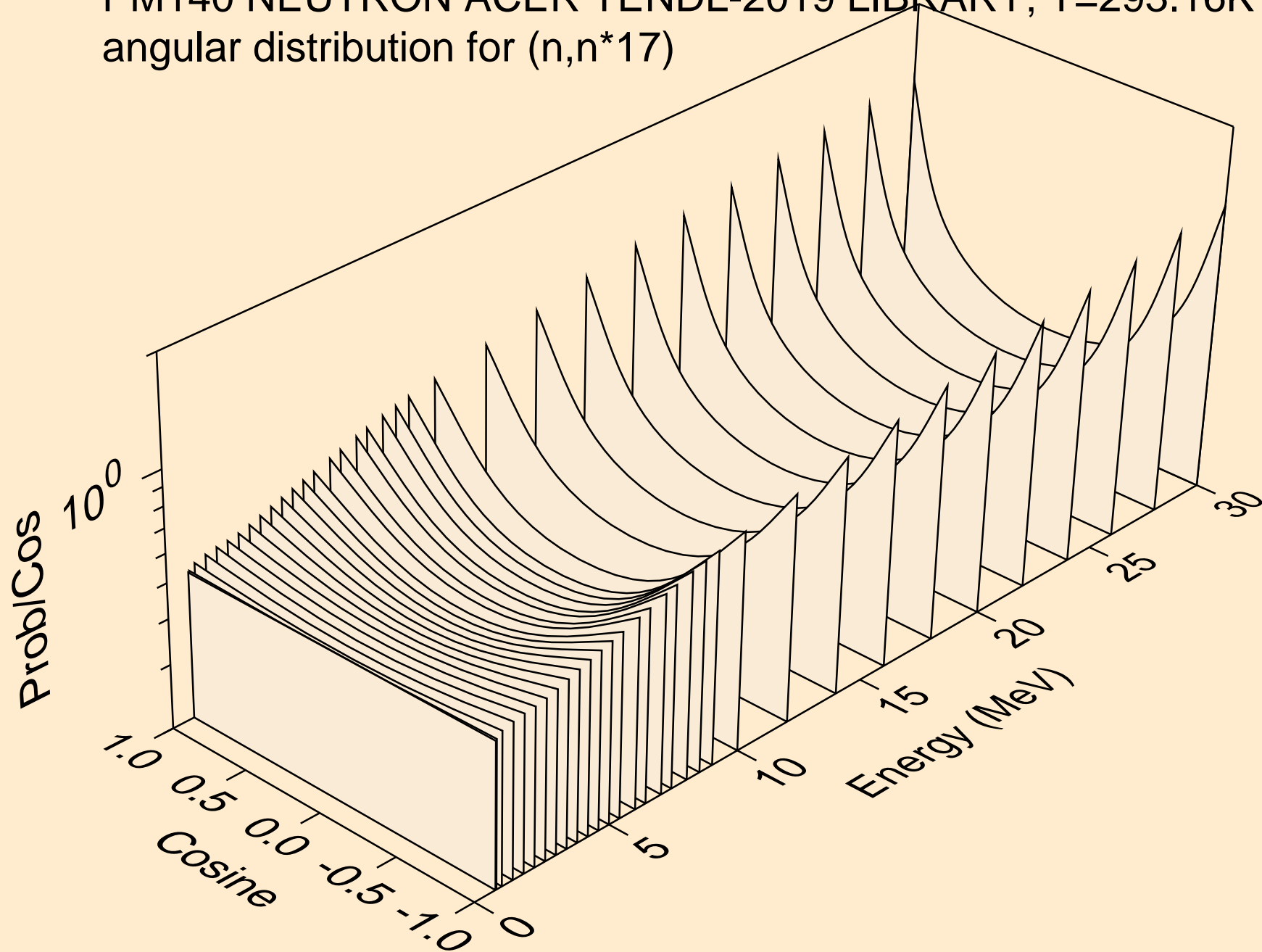




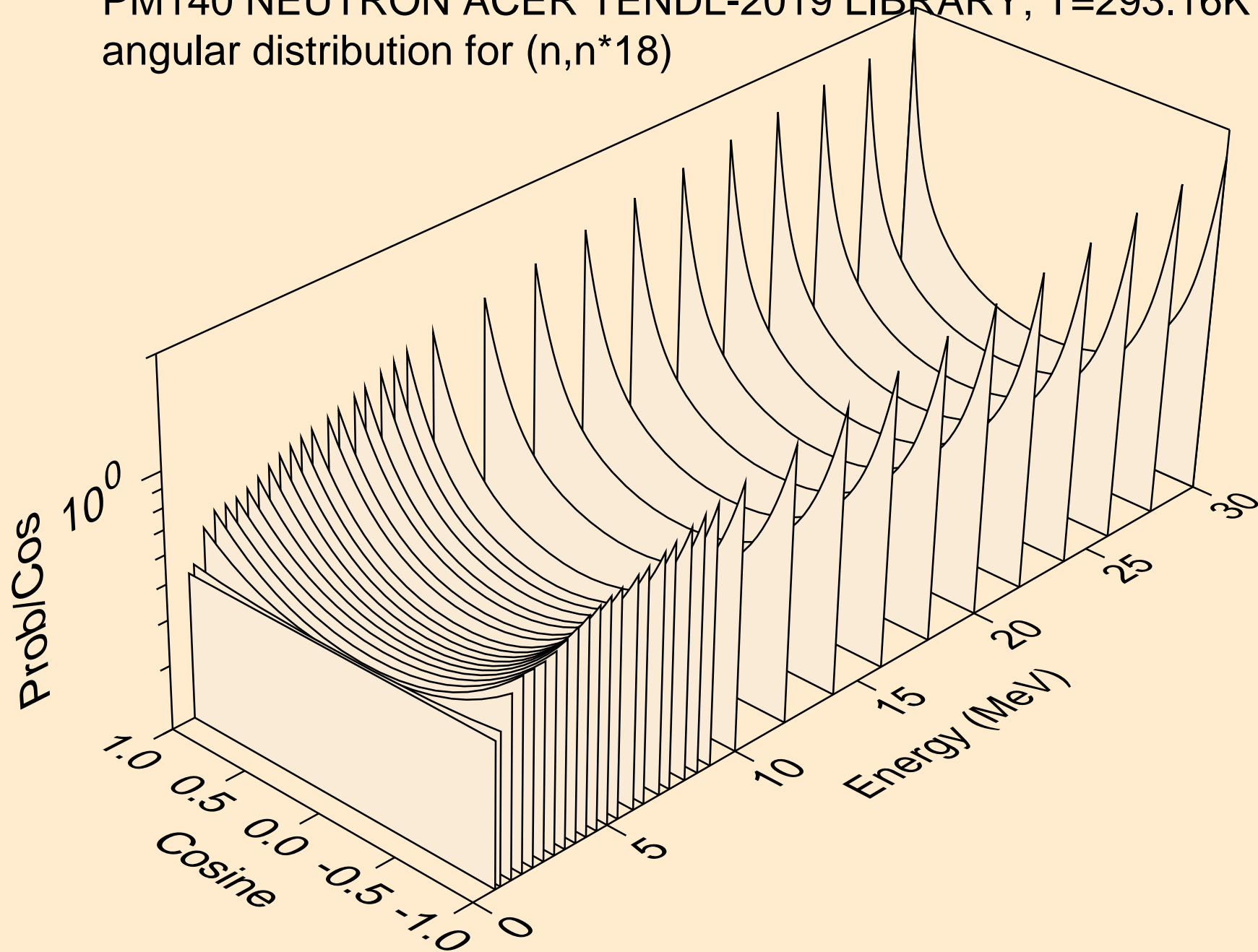
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angular distribution for (n,n\*16)



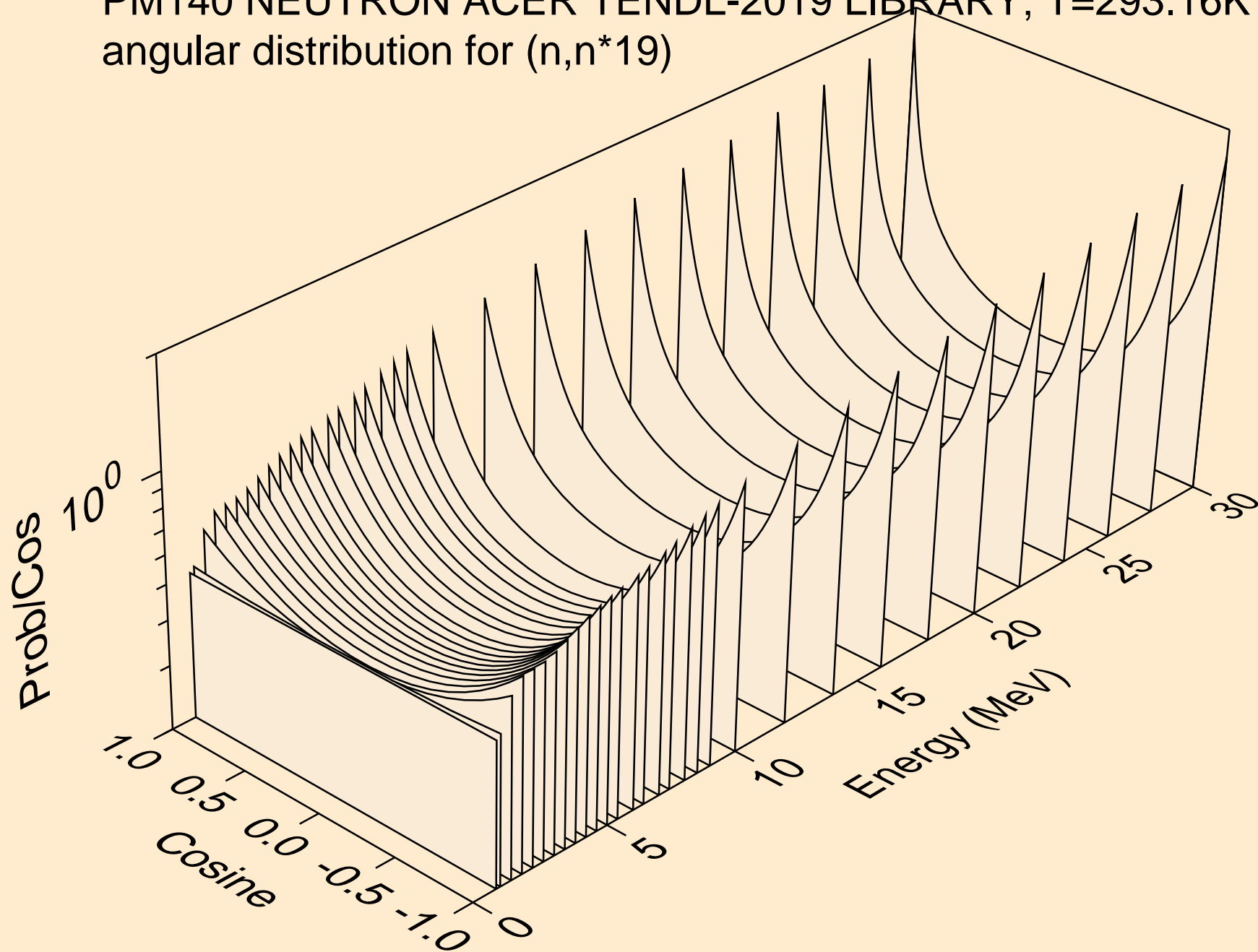
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angular distribution for (n,n\*17)



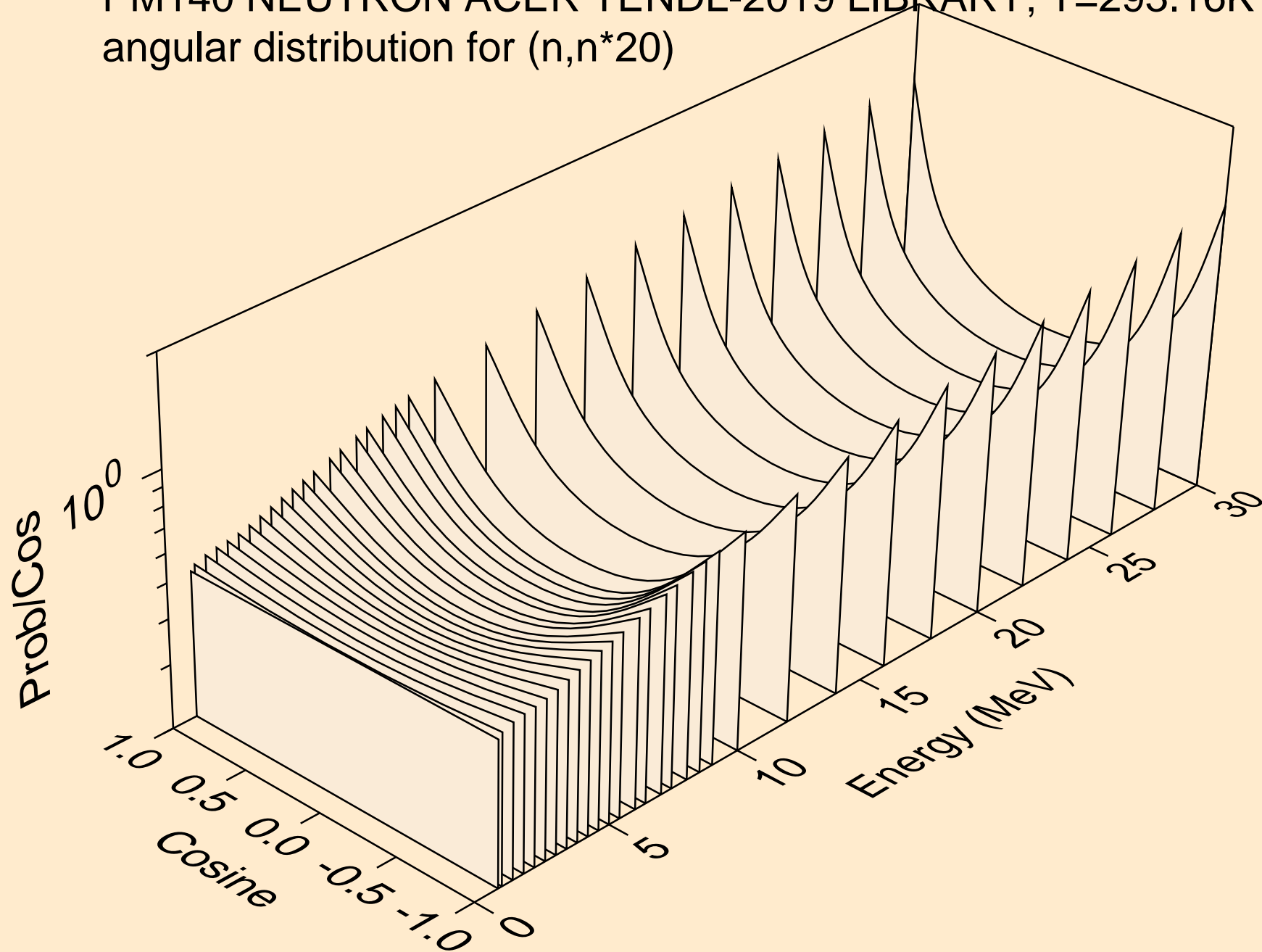
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angular distribution for (n,n\*18)



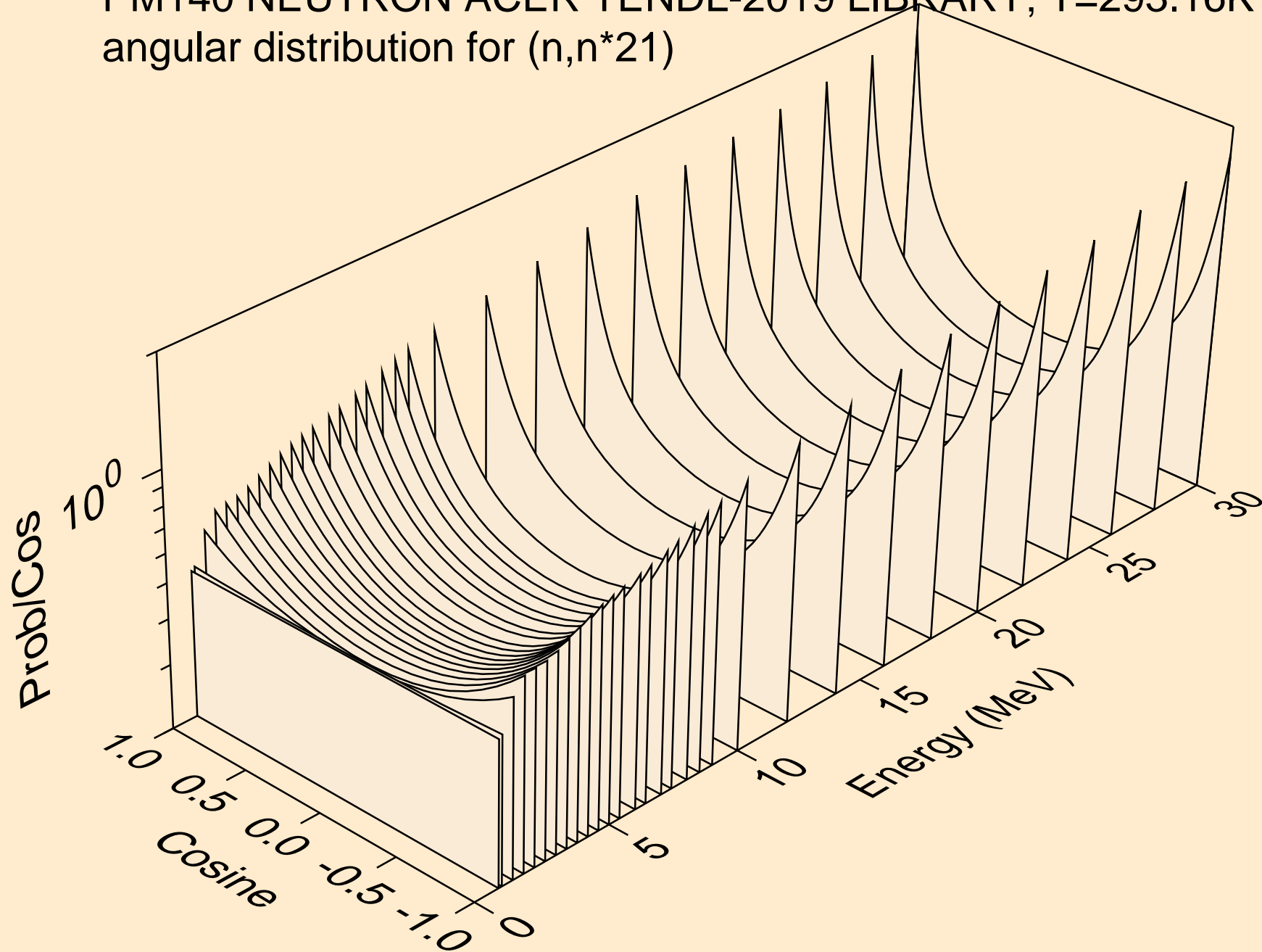
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angular distribution for (n,n\*19)



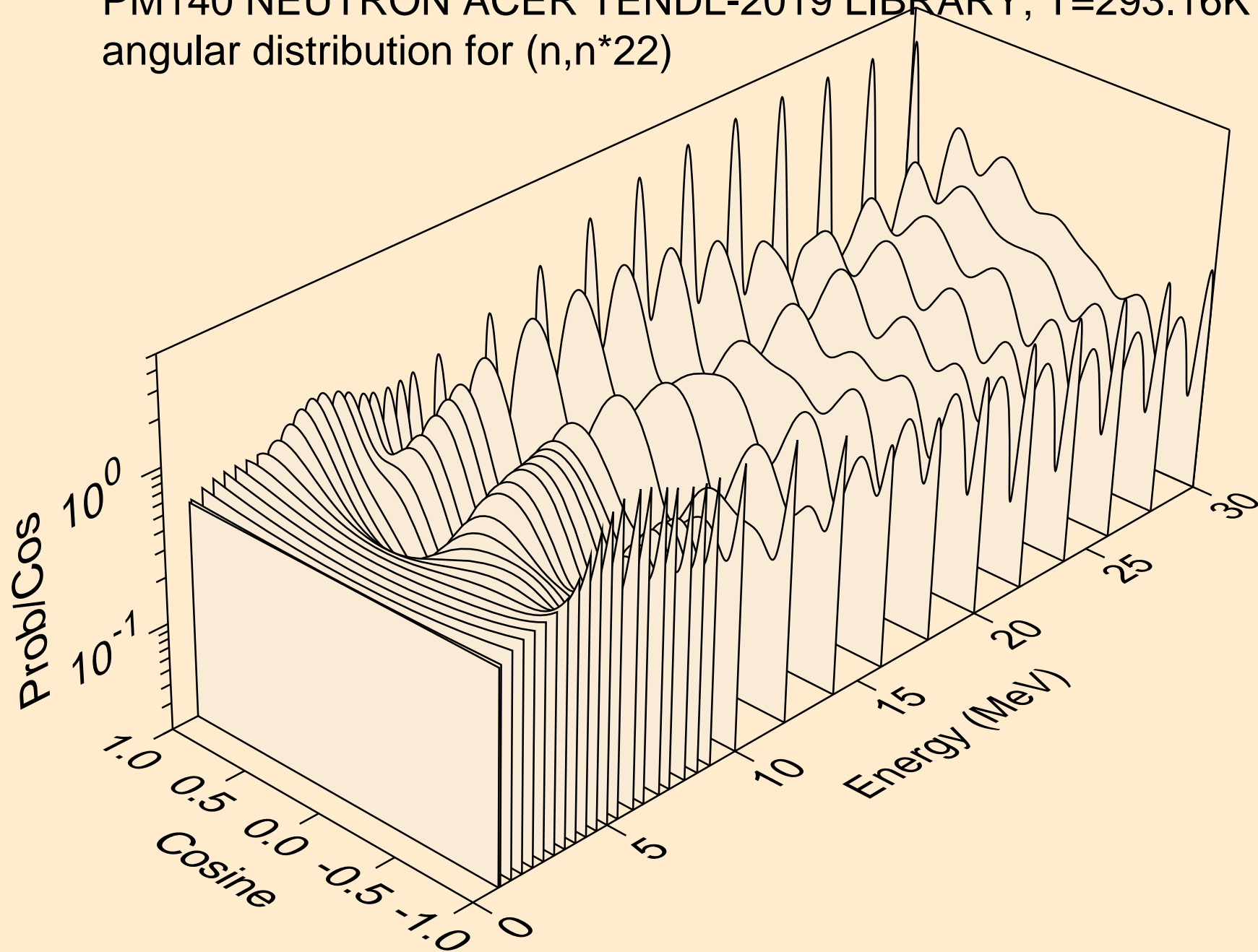
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angular distribution for (n,n\*20)



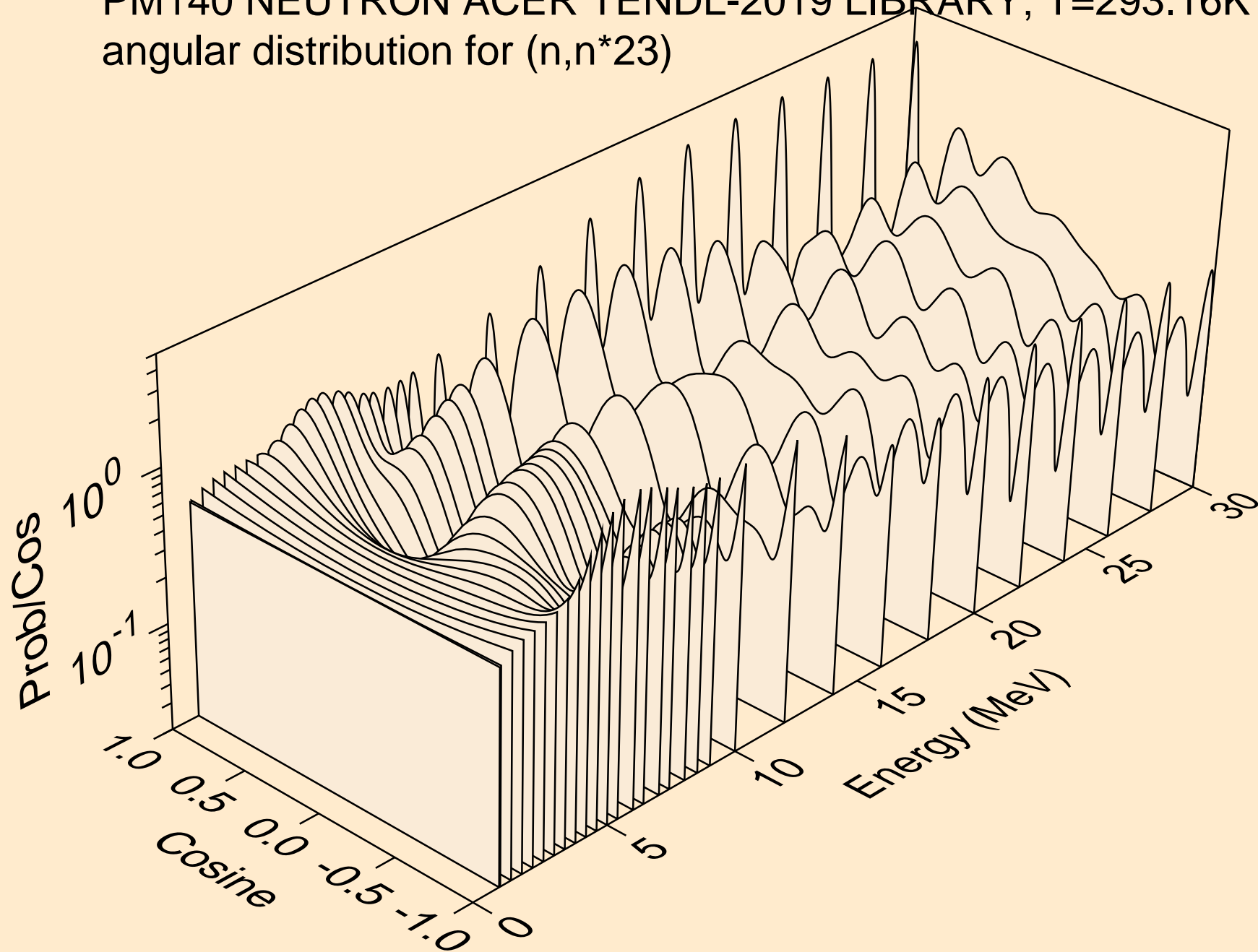
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*21)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*22)

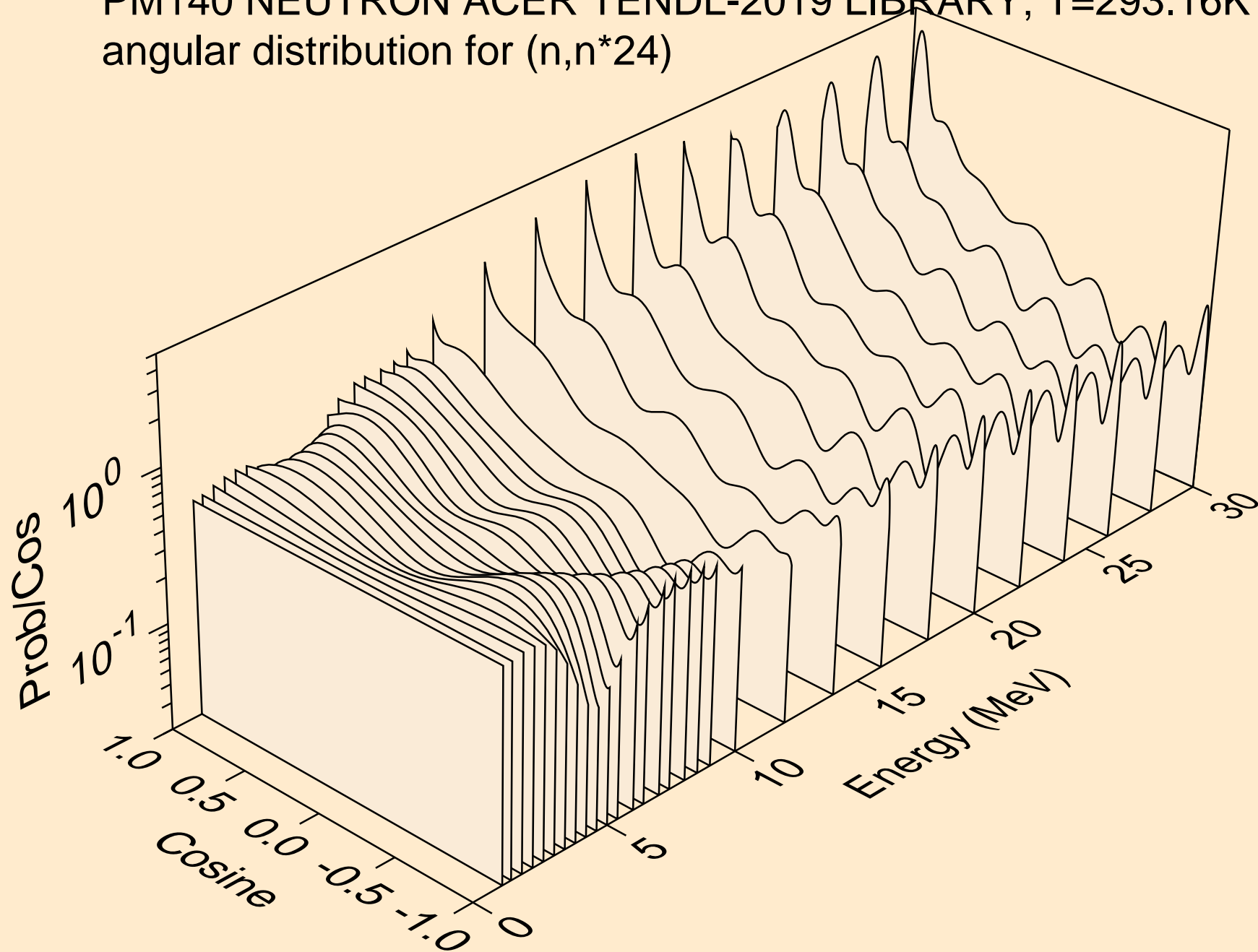


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*23)

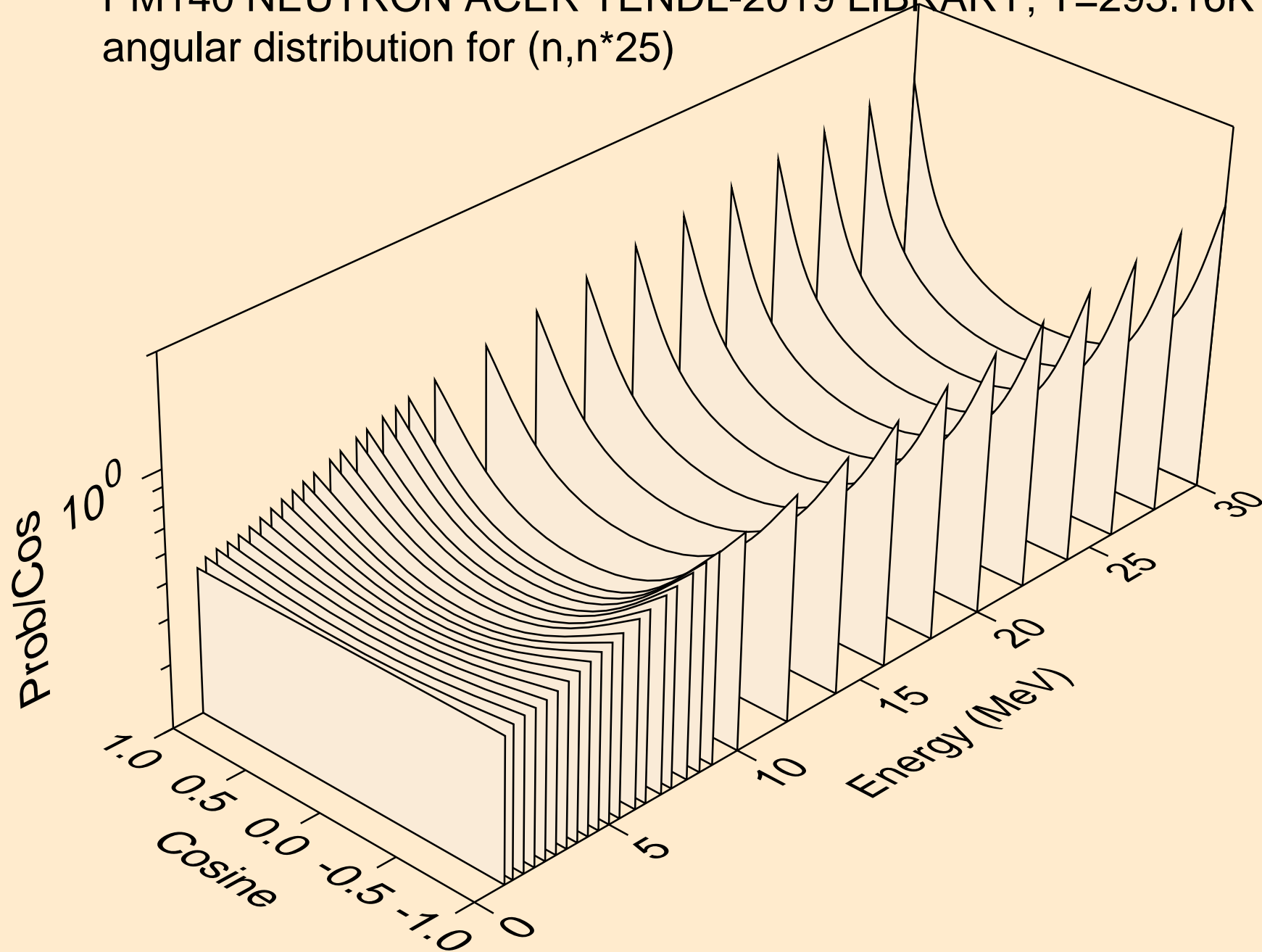




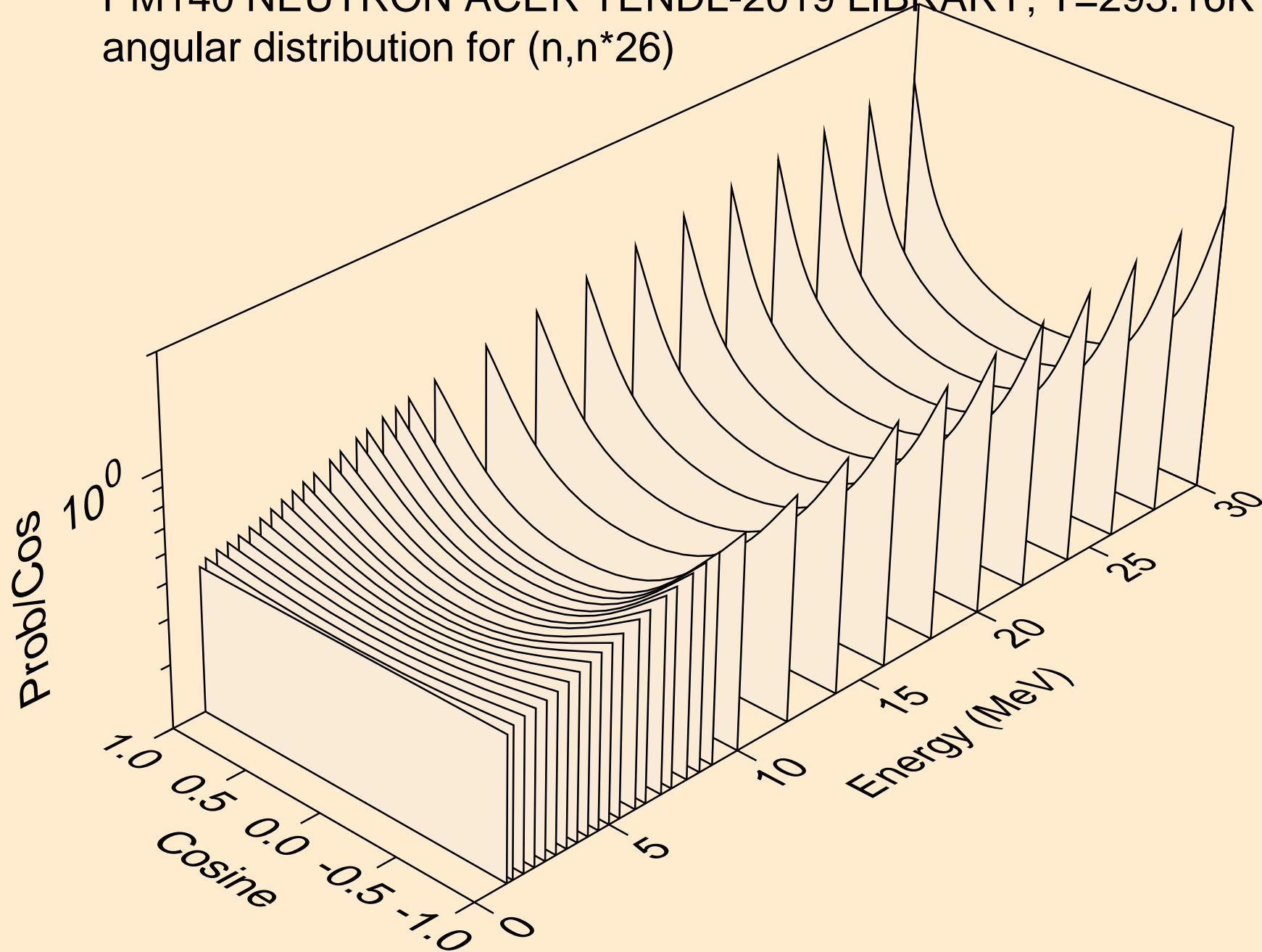
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angular distribution for (n,n\*24)



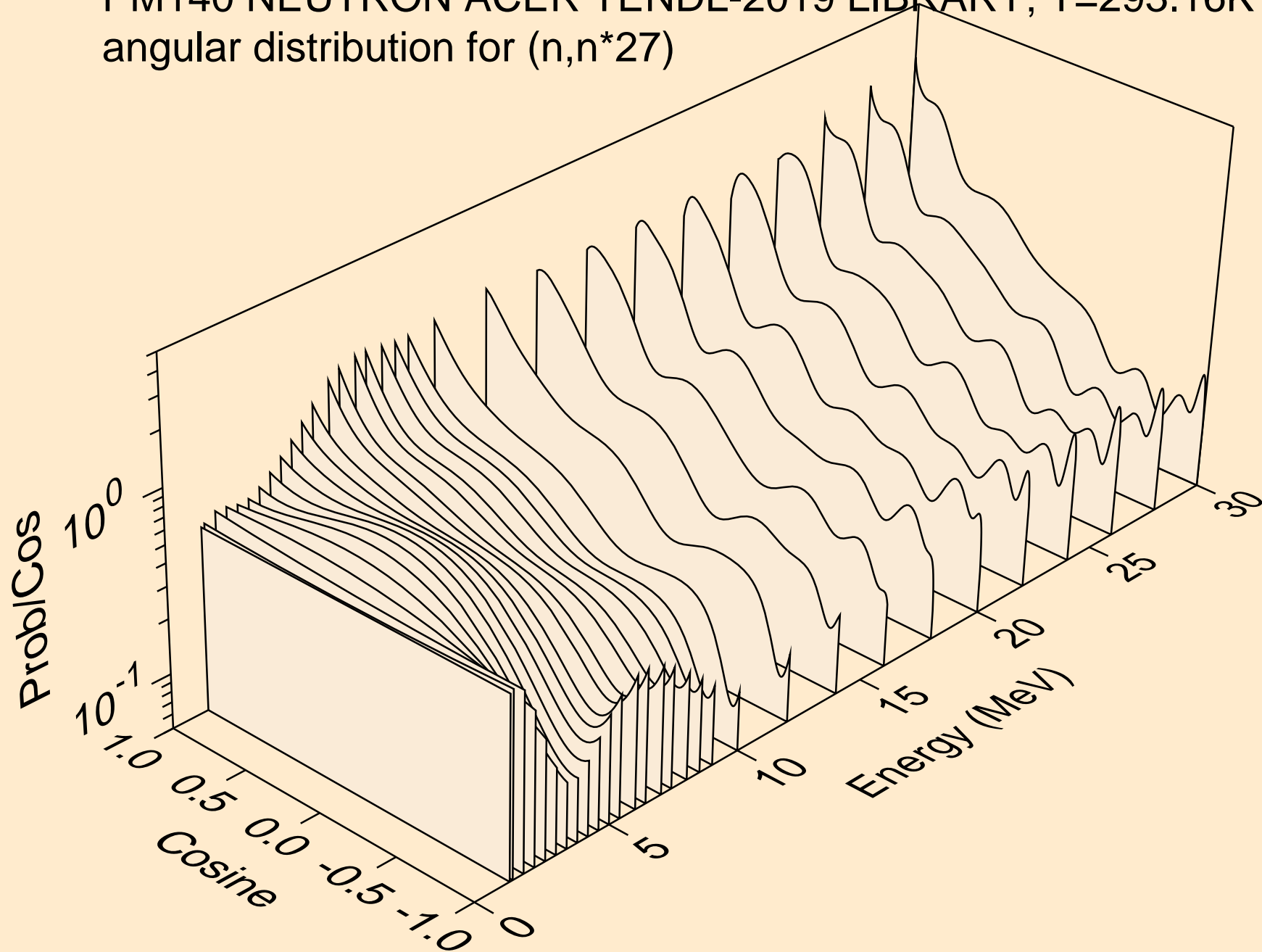
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angular distribution for (n,n\*25)



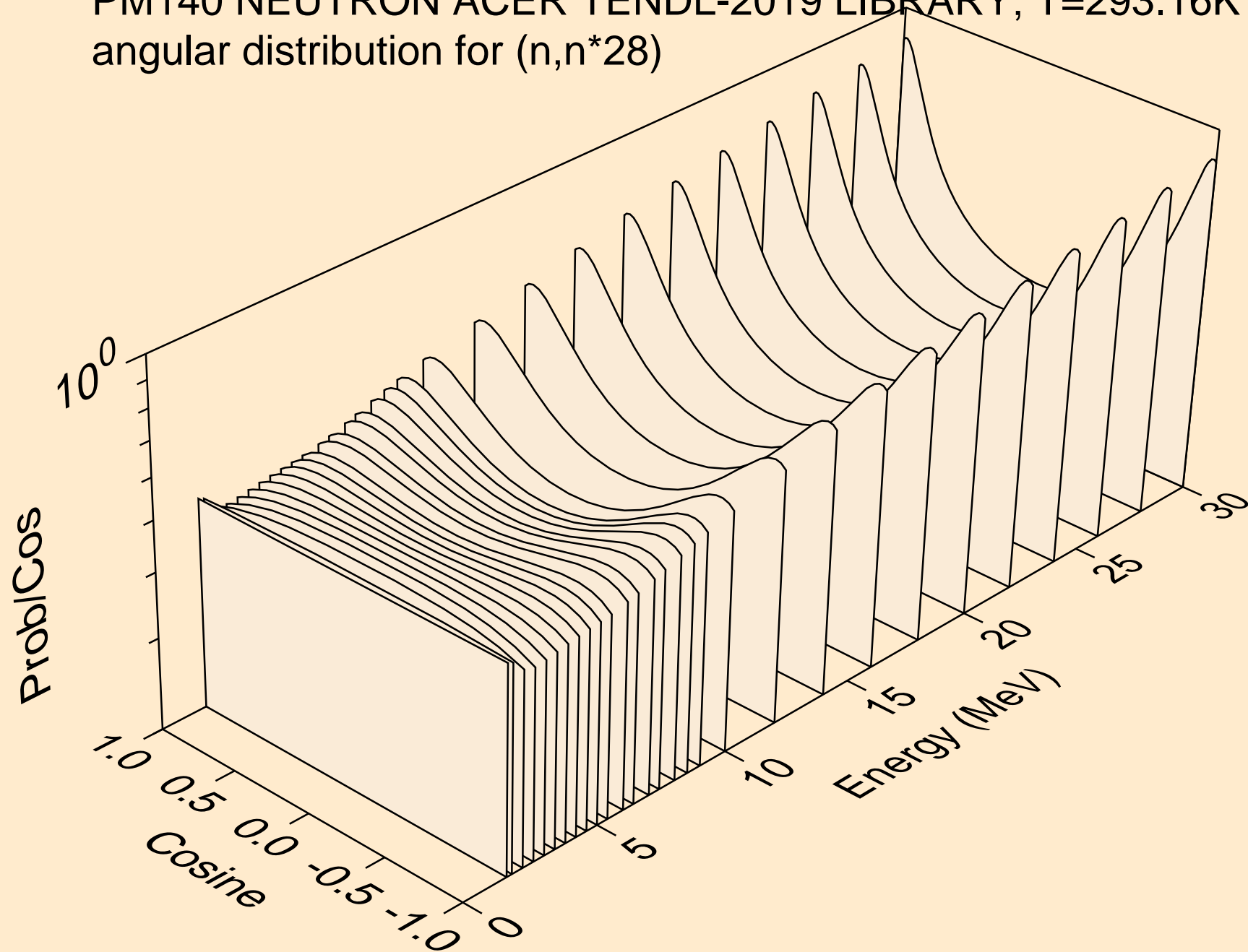
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angular distribution for (n,n\*26)



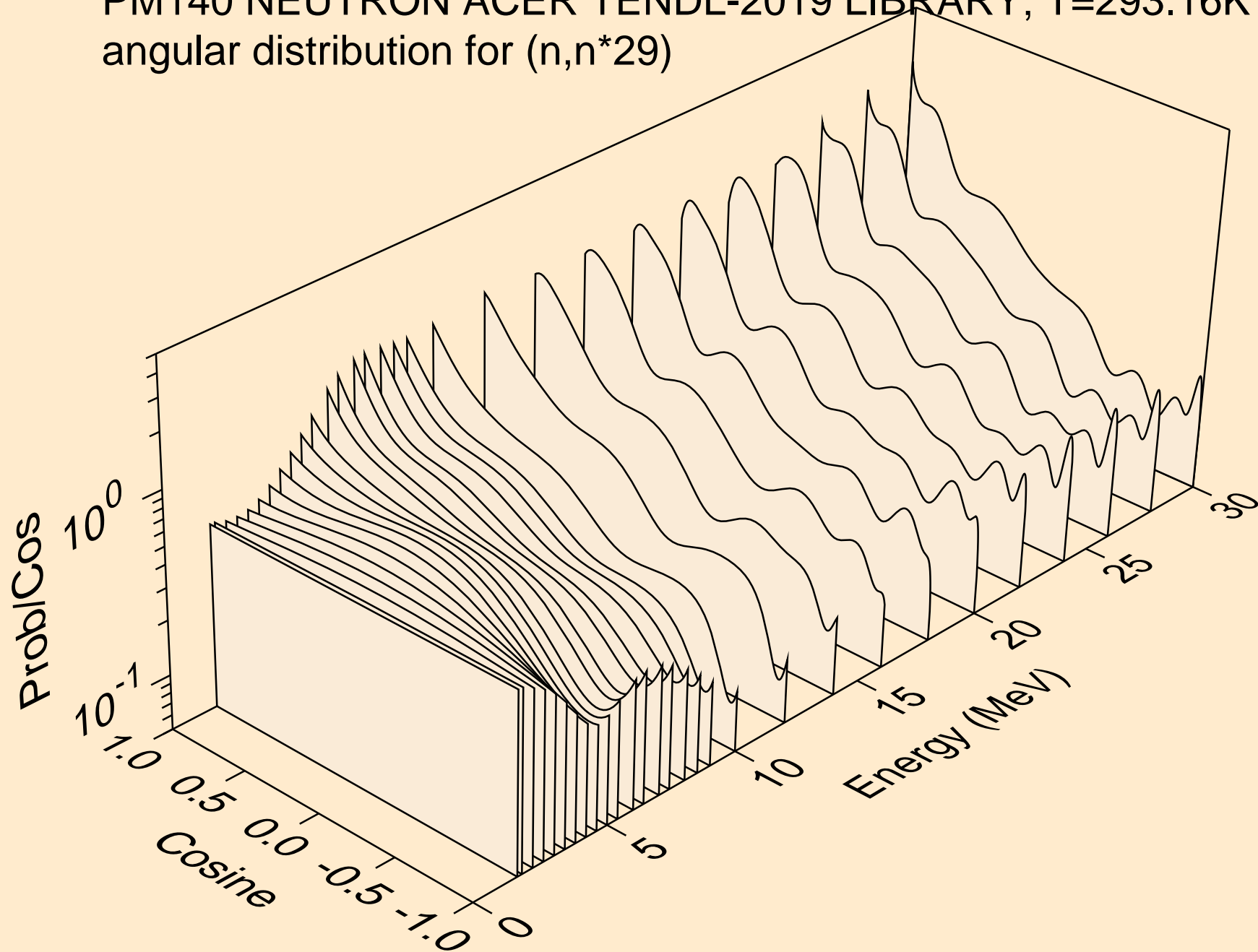
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*27)



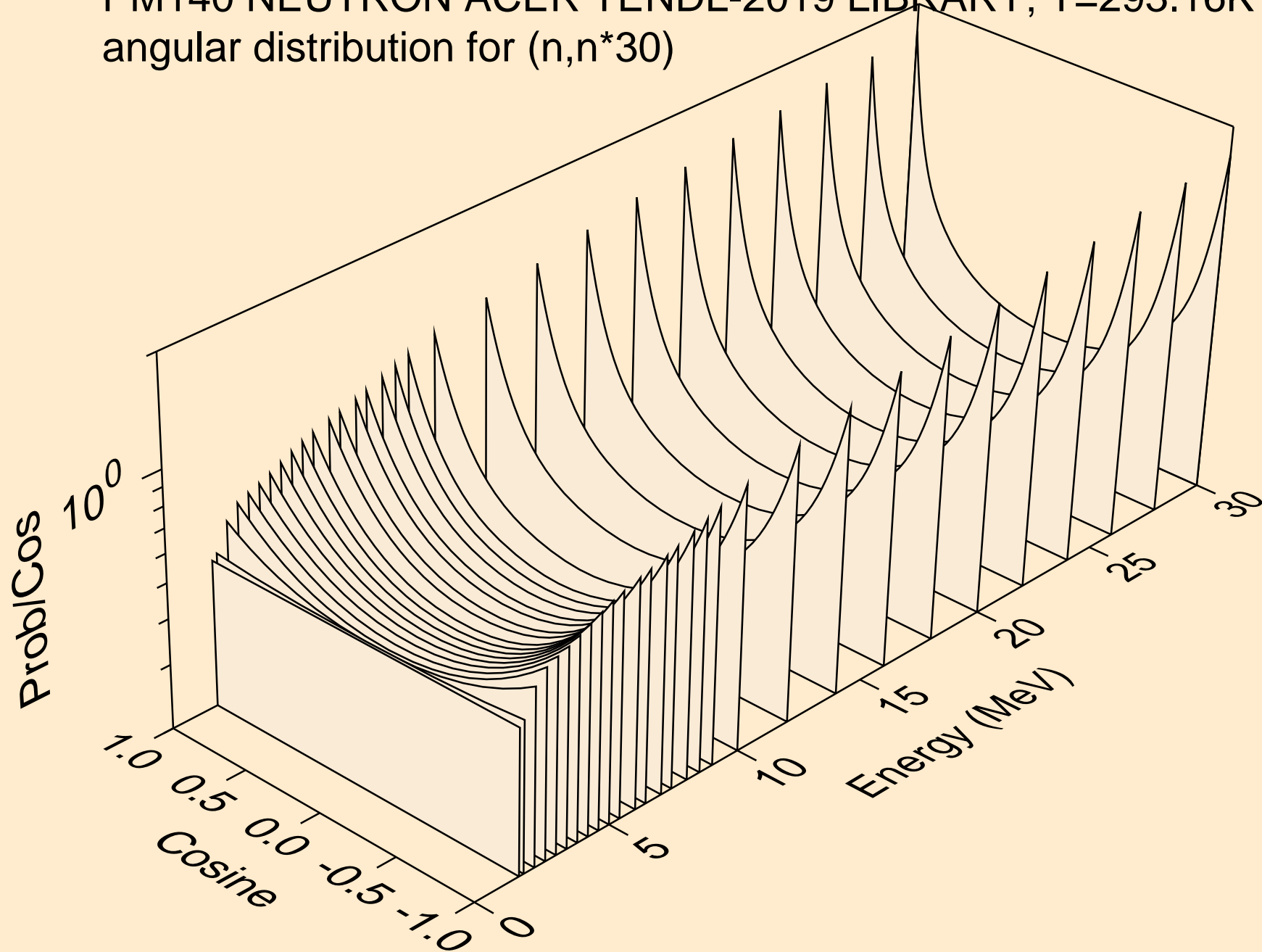
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angular distribution for (n,n\*28)



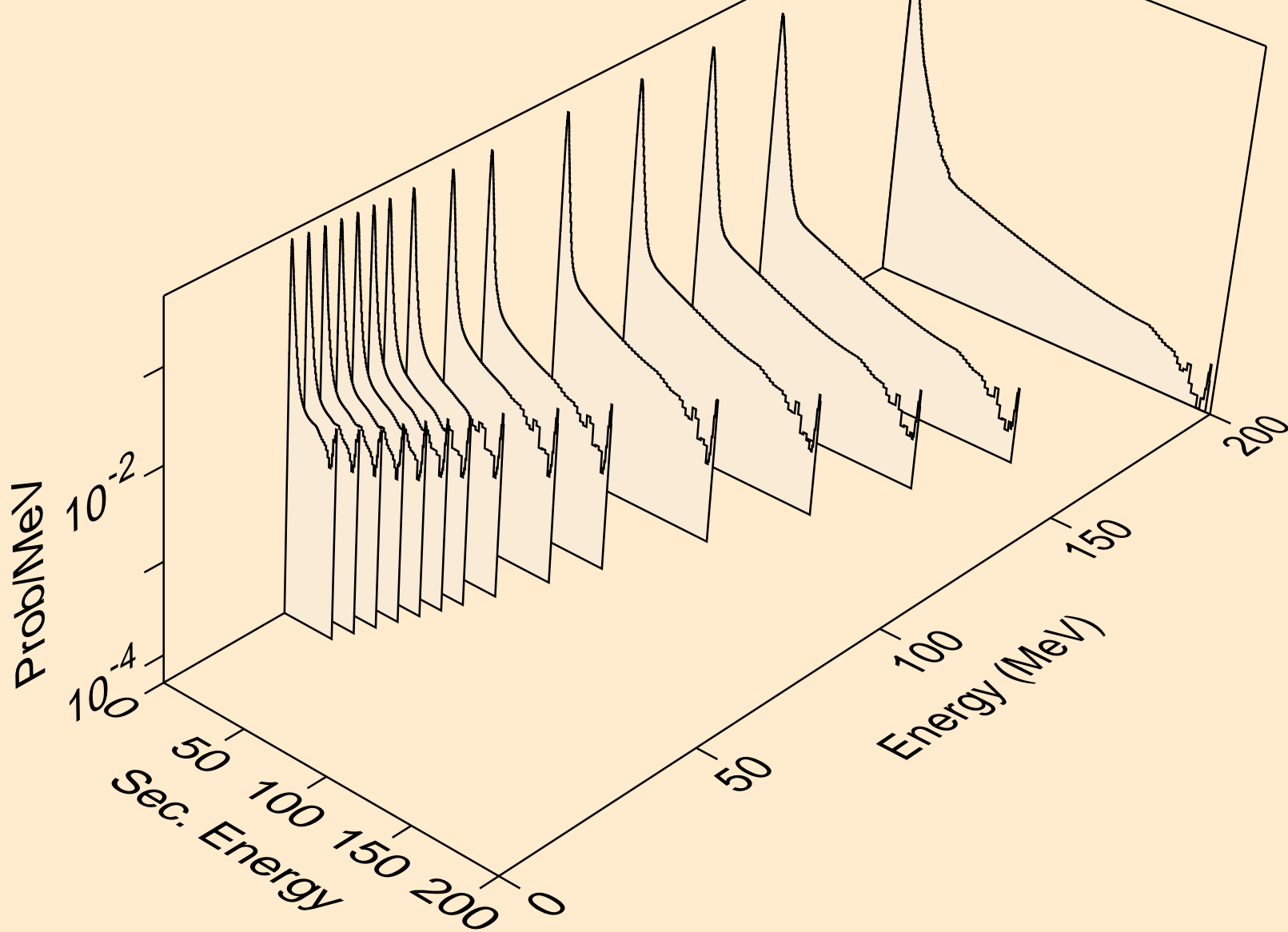
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*29)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*30)

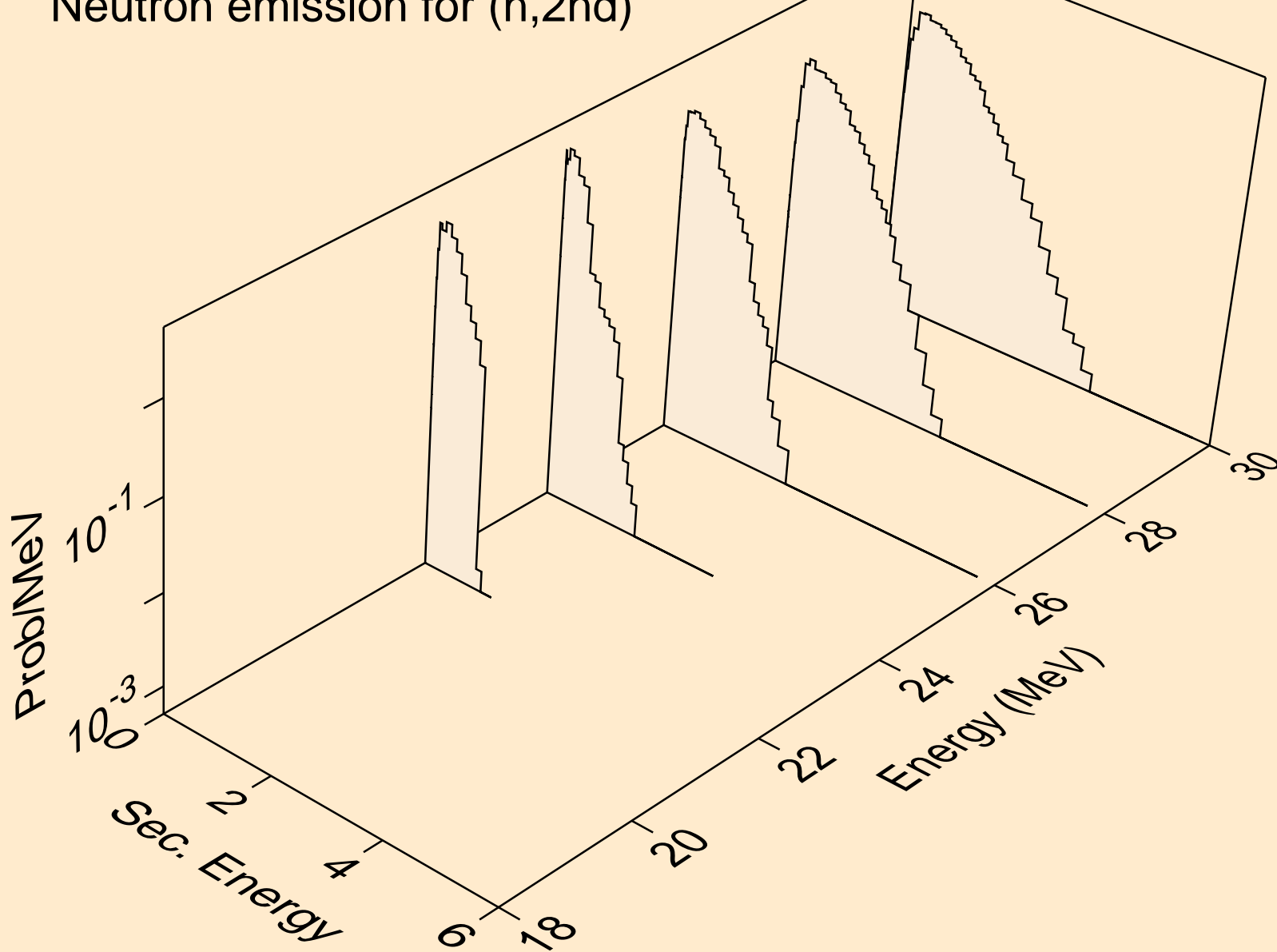


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)

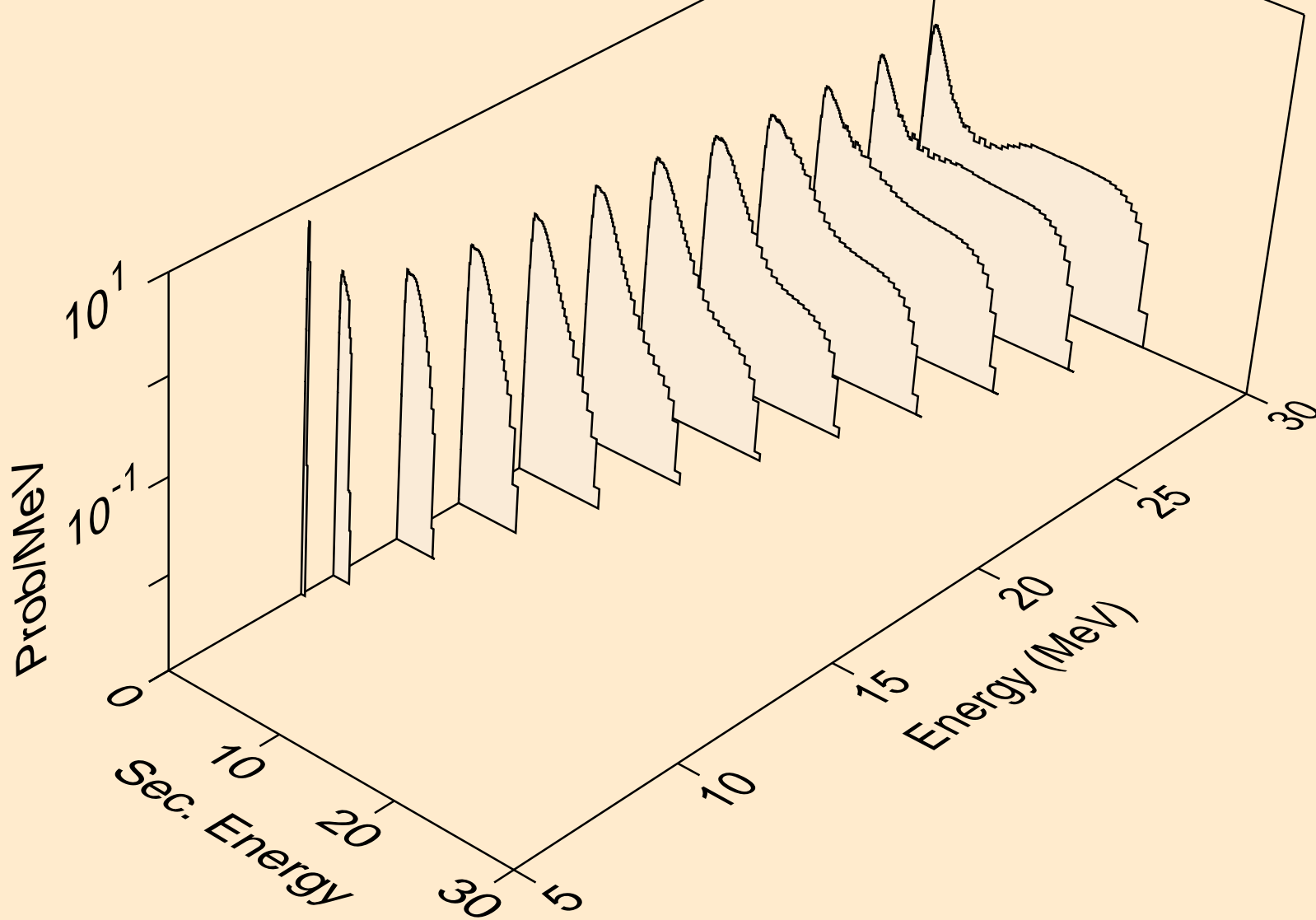




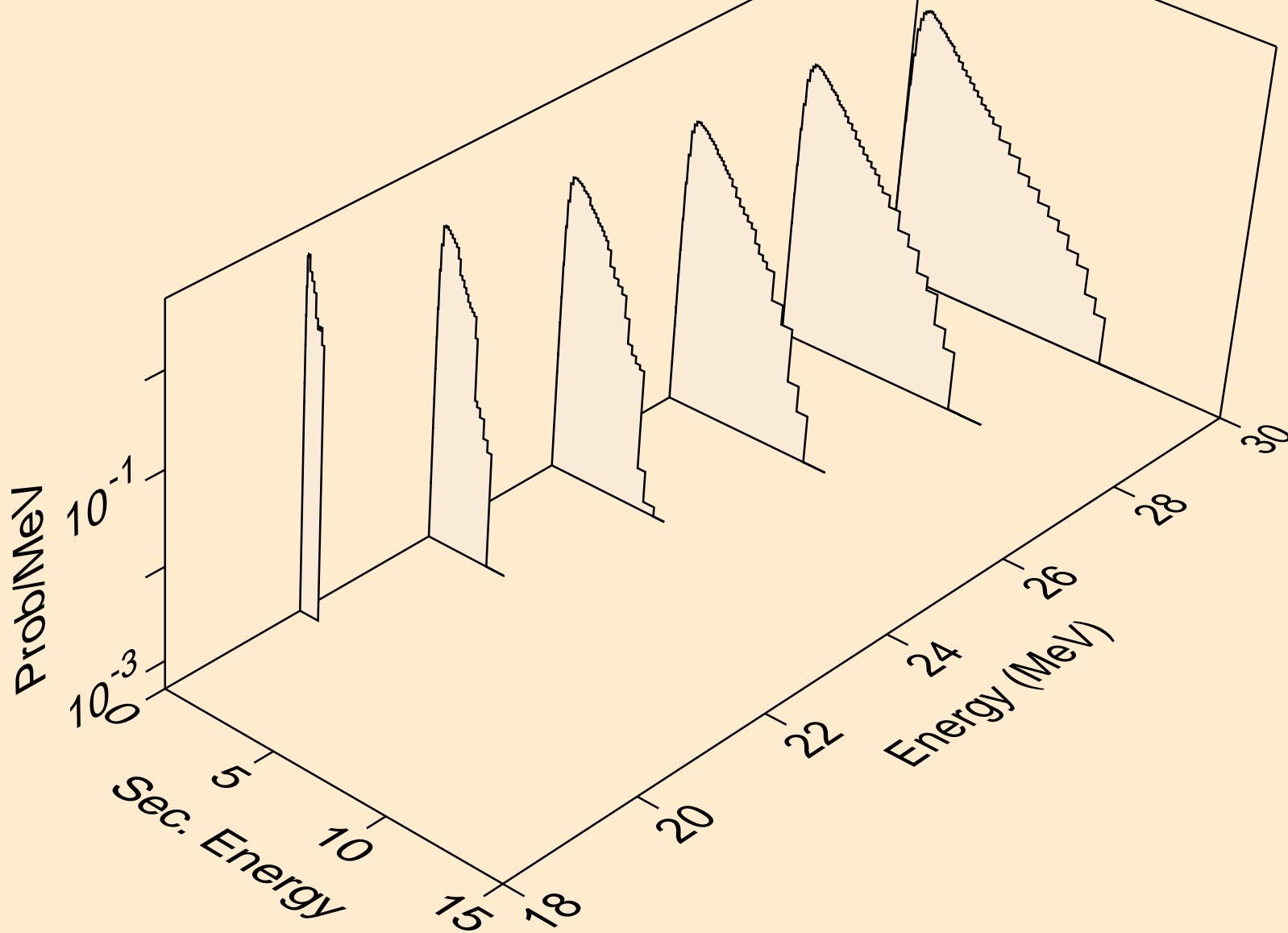
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



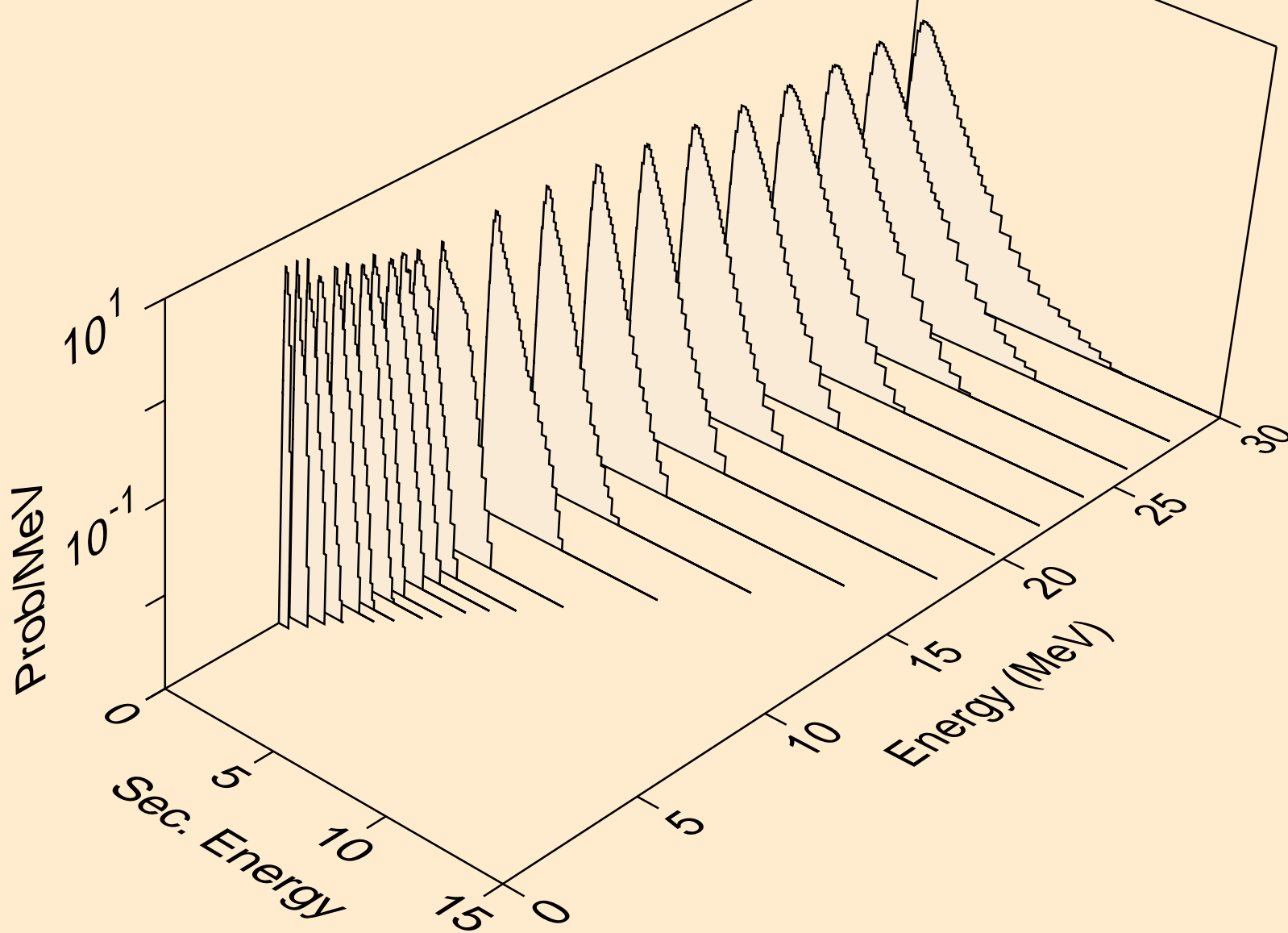
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



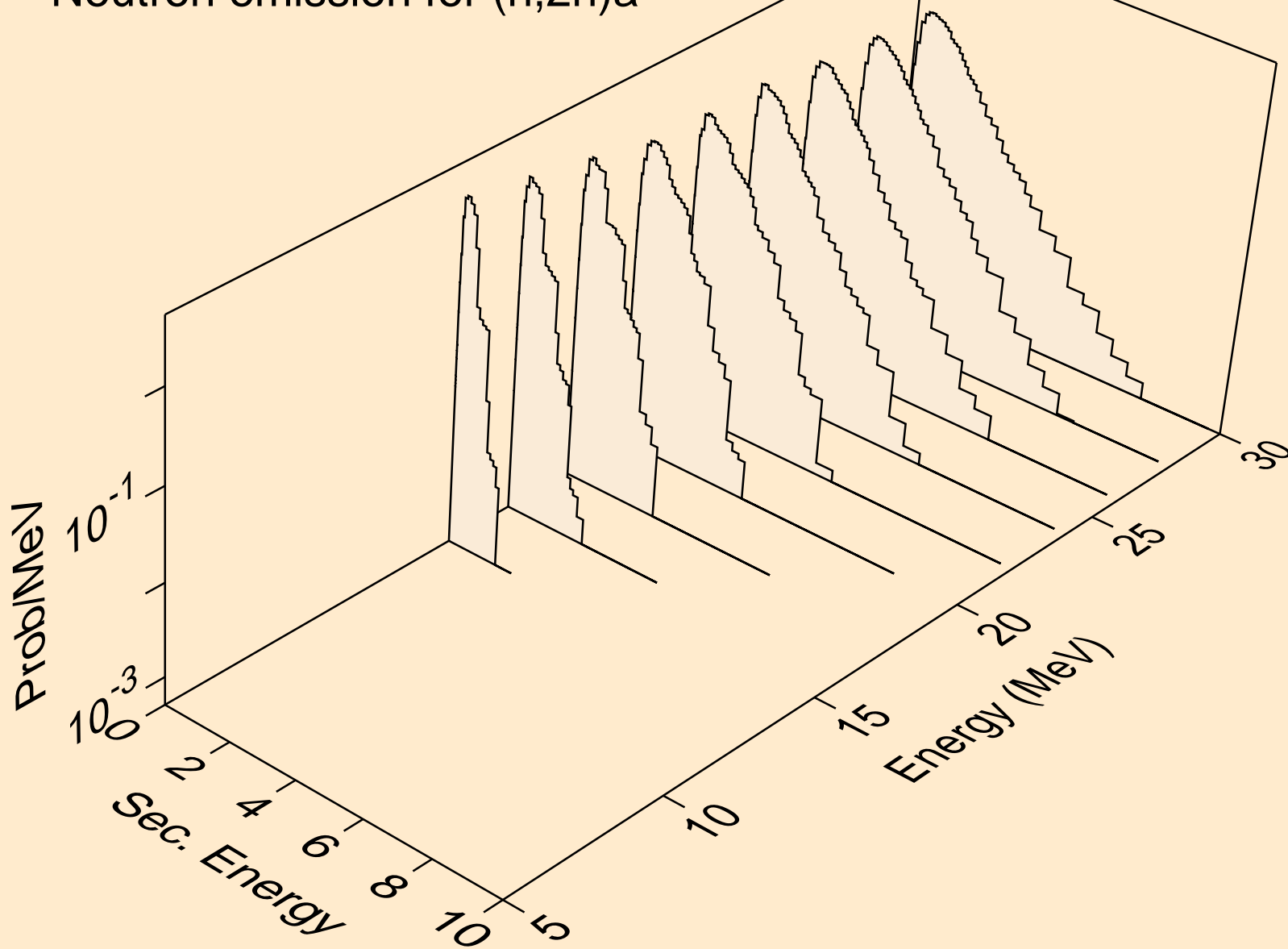
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



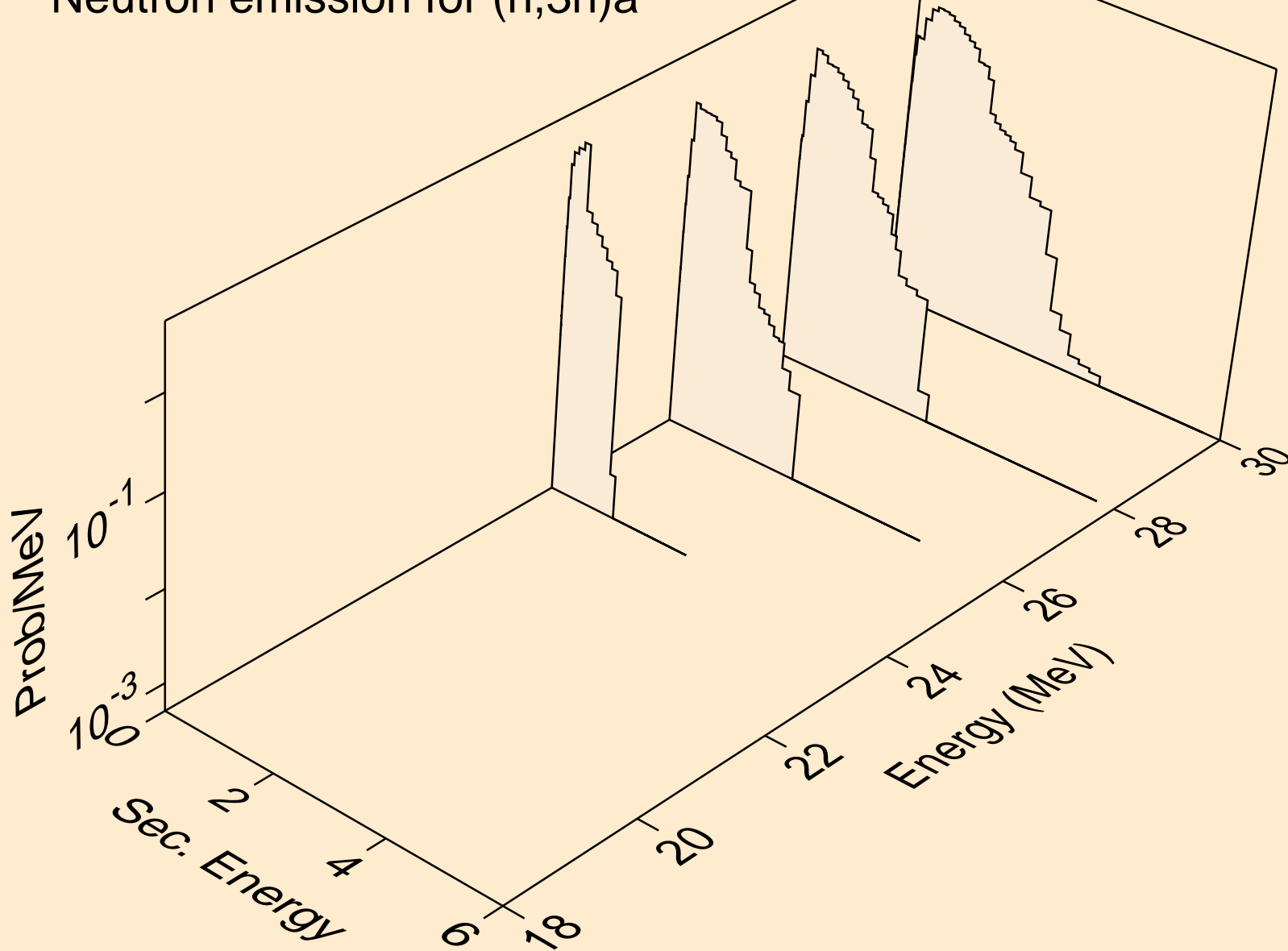
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



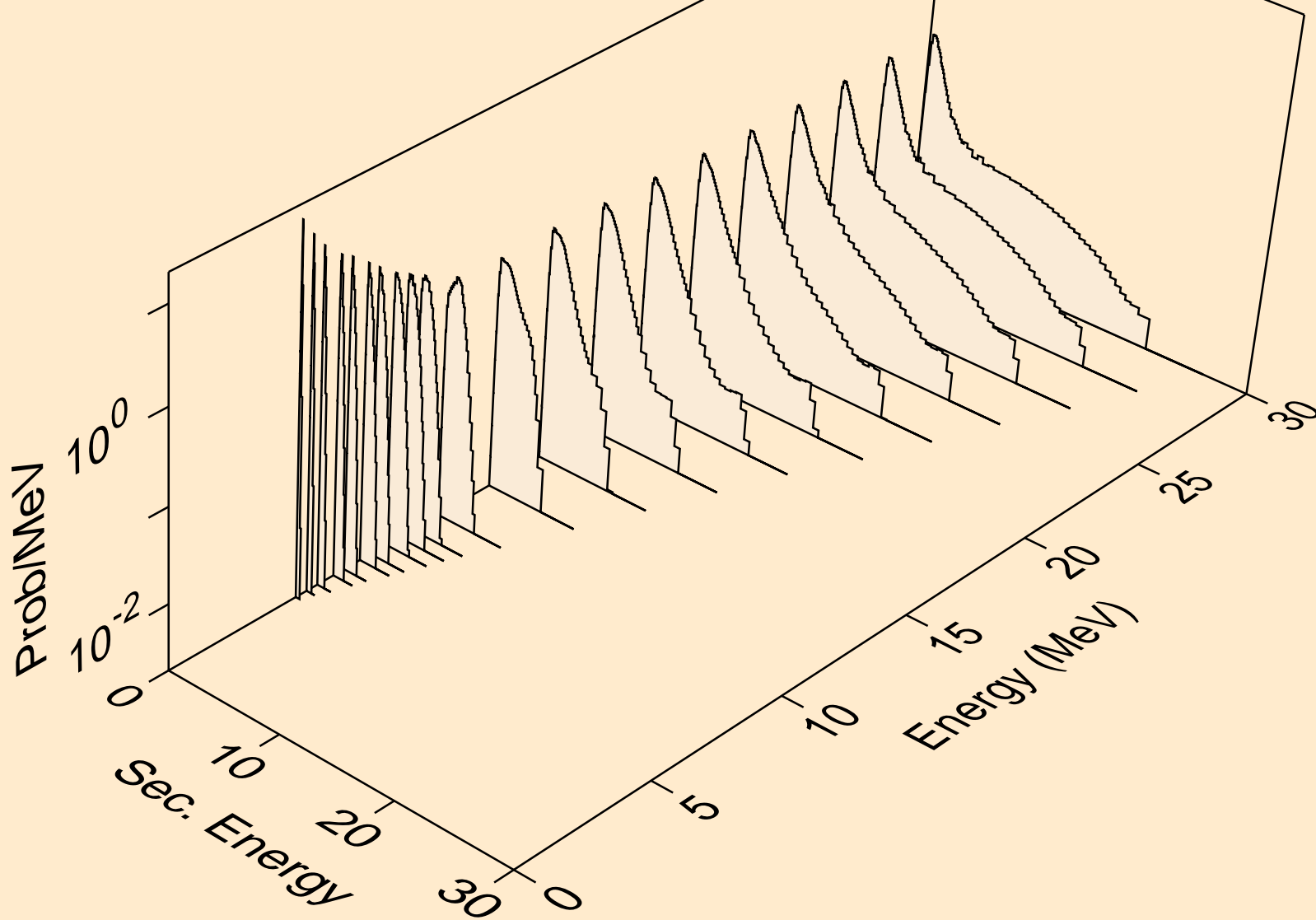
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



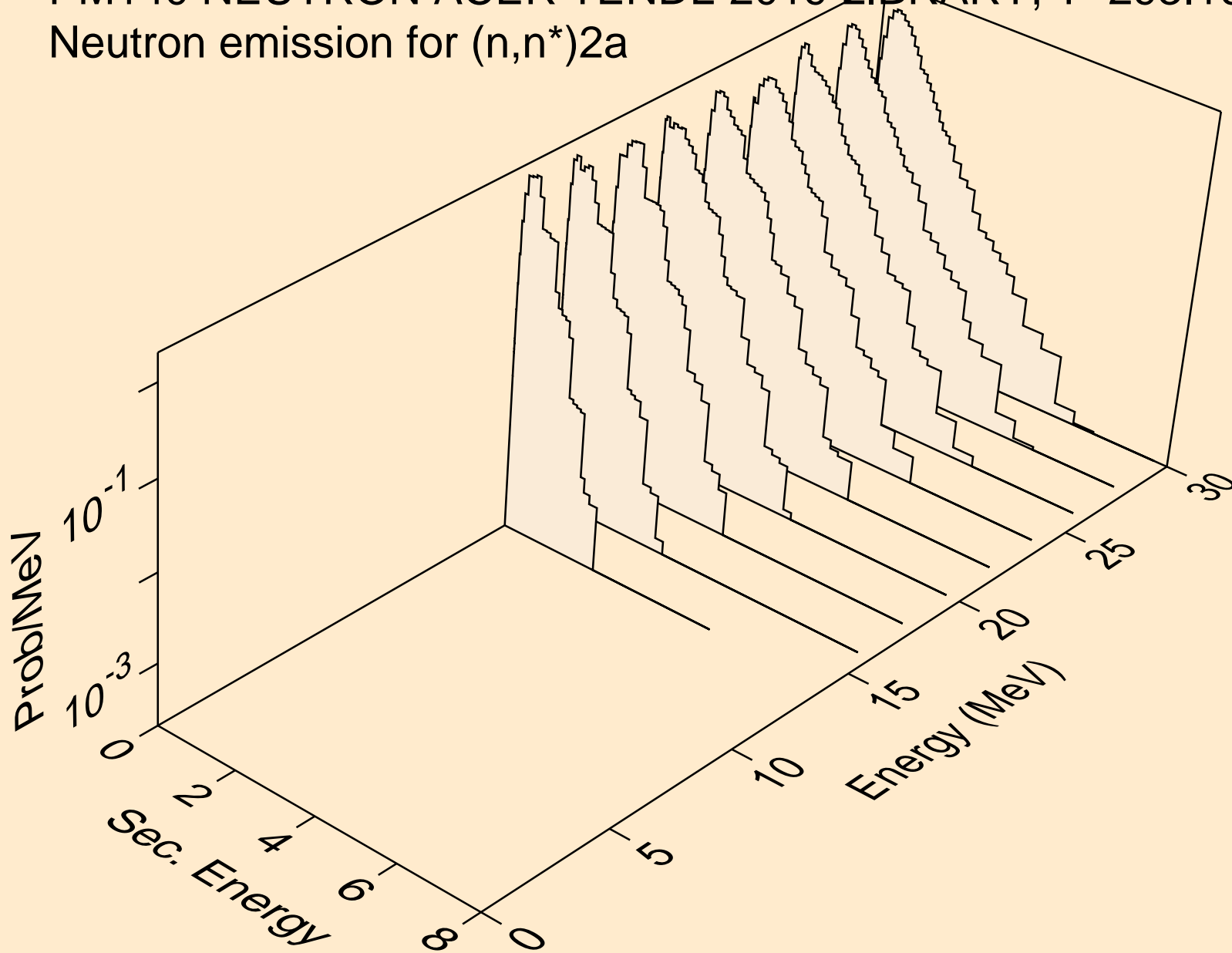
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p

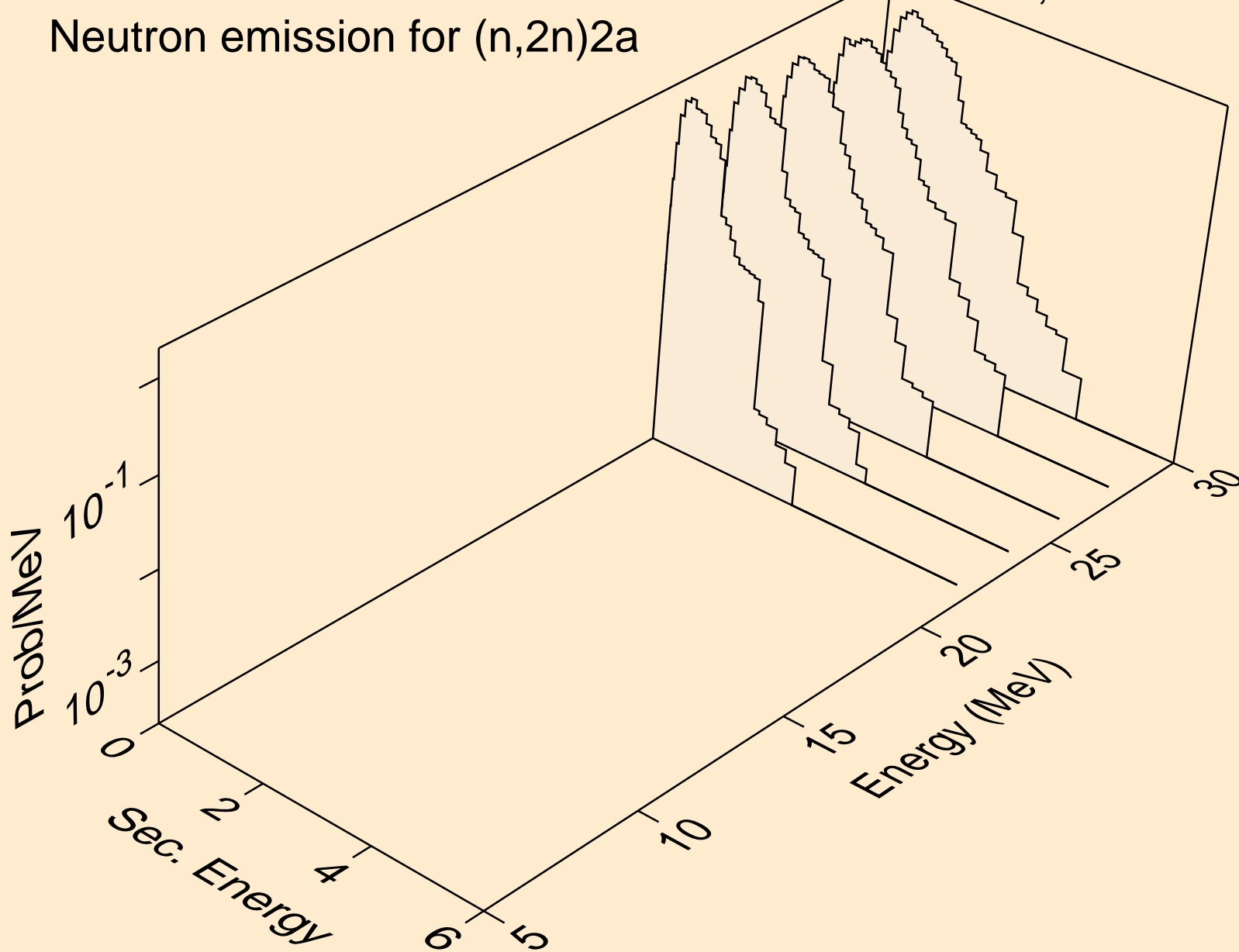


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a

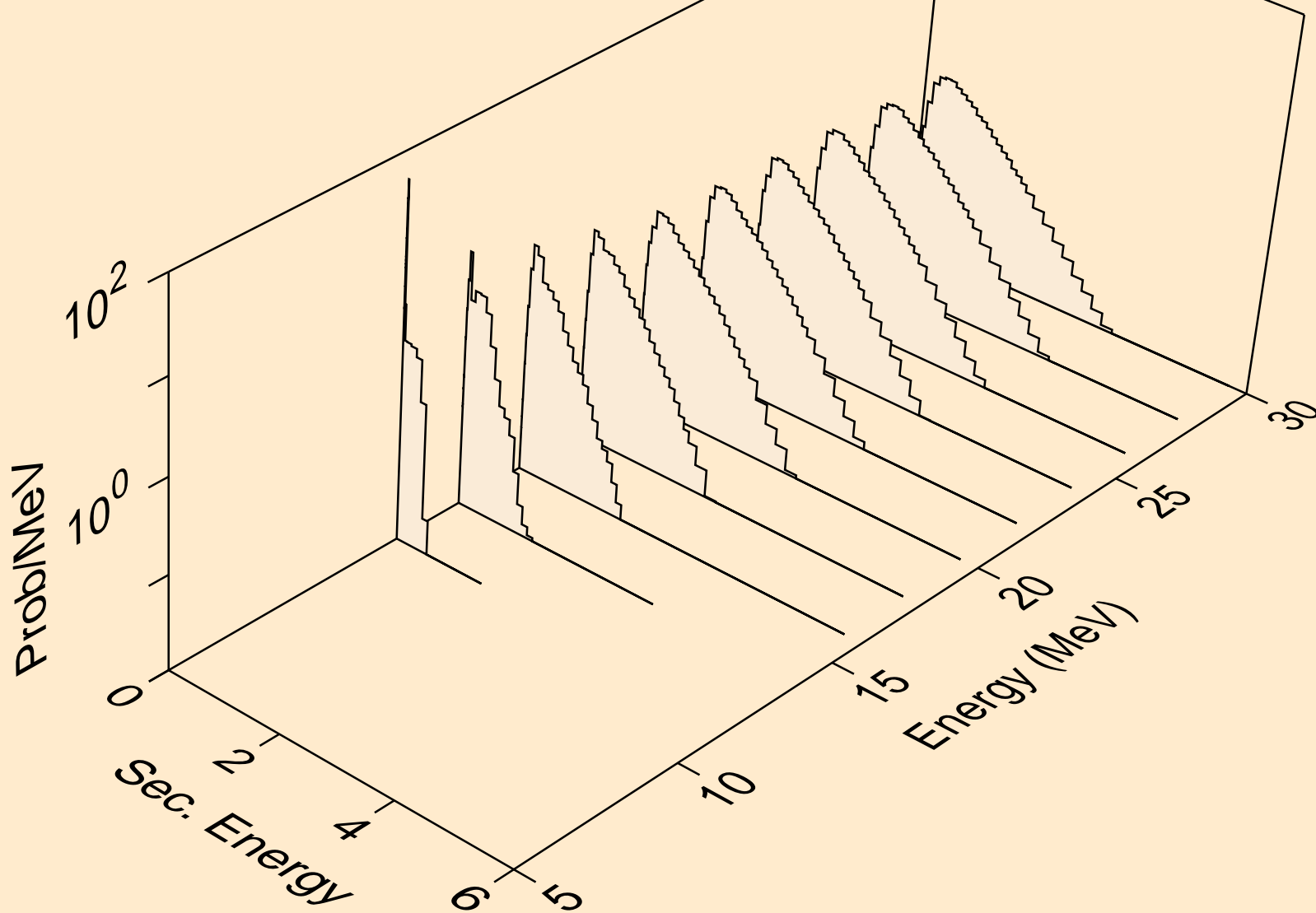




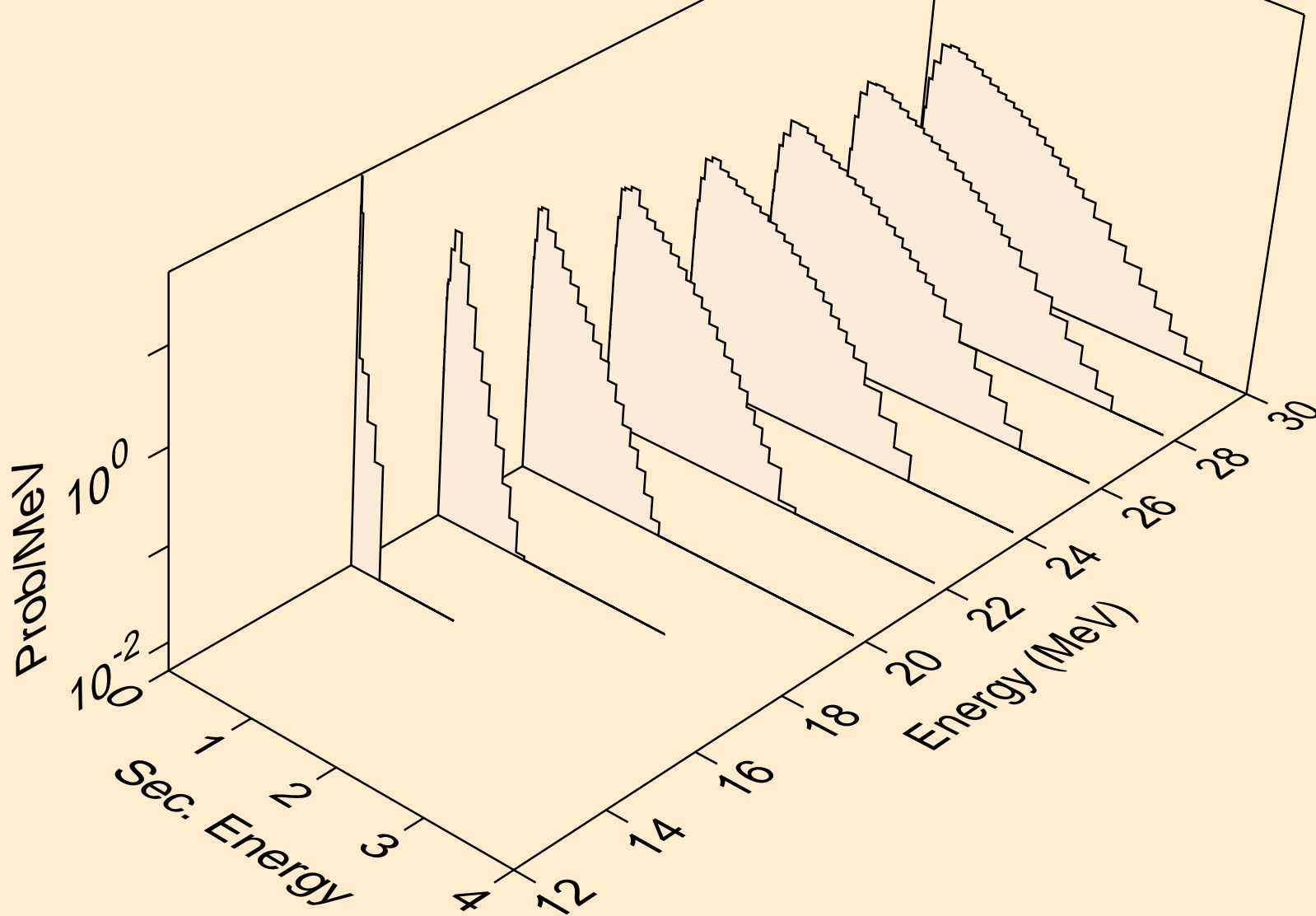
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)2a



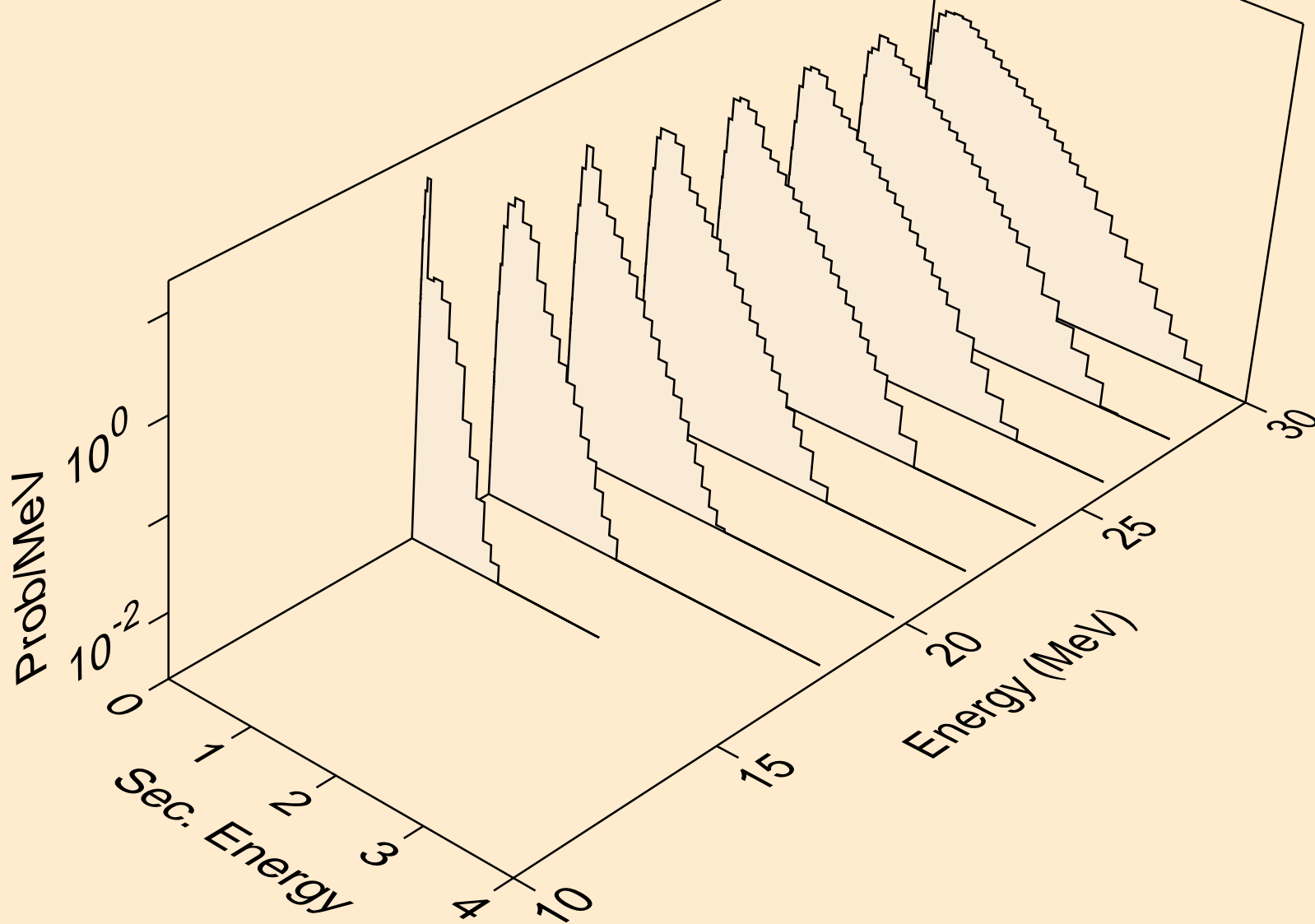
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



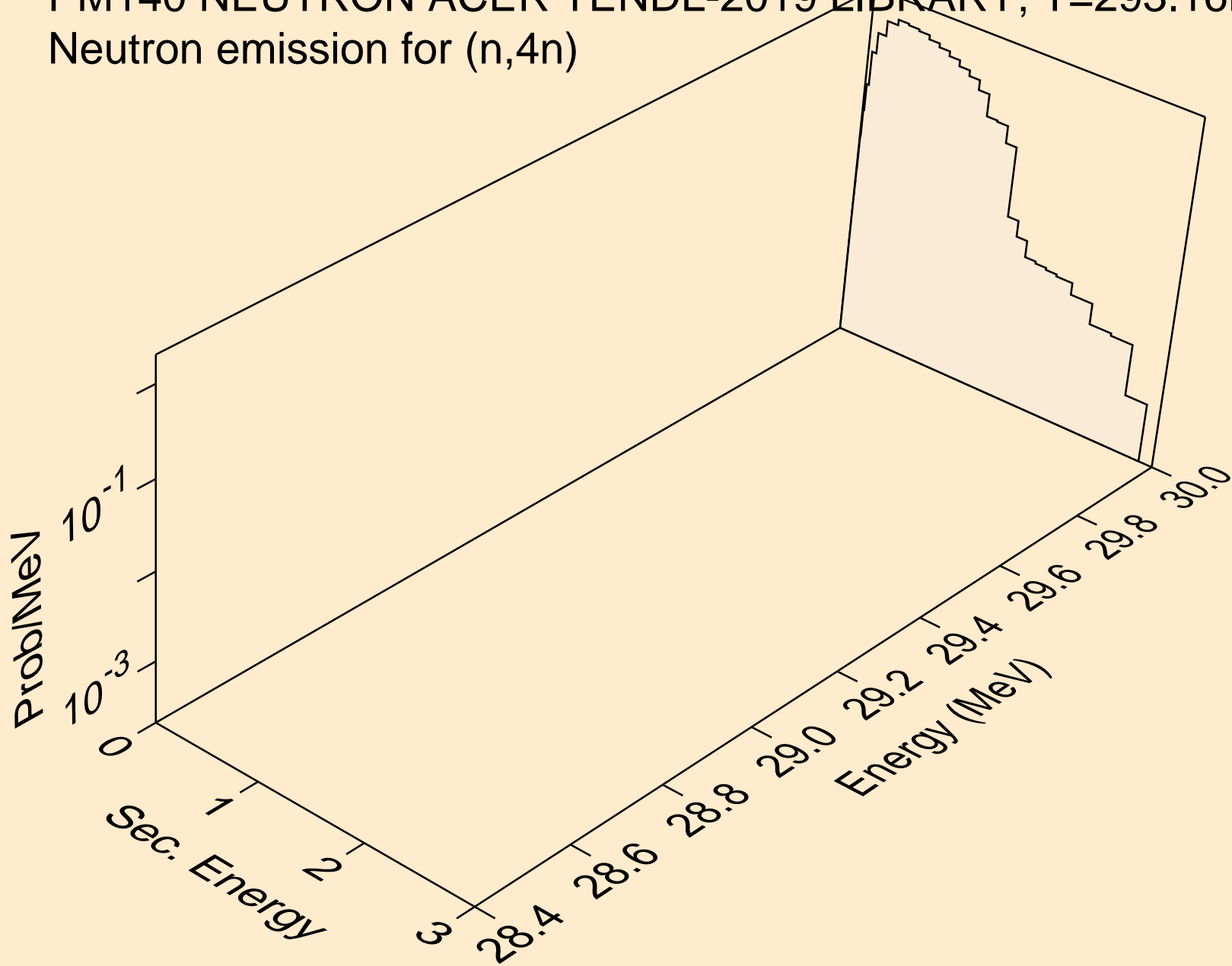
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



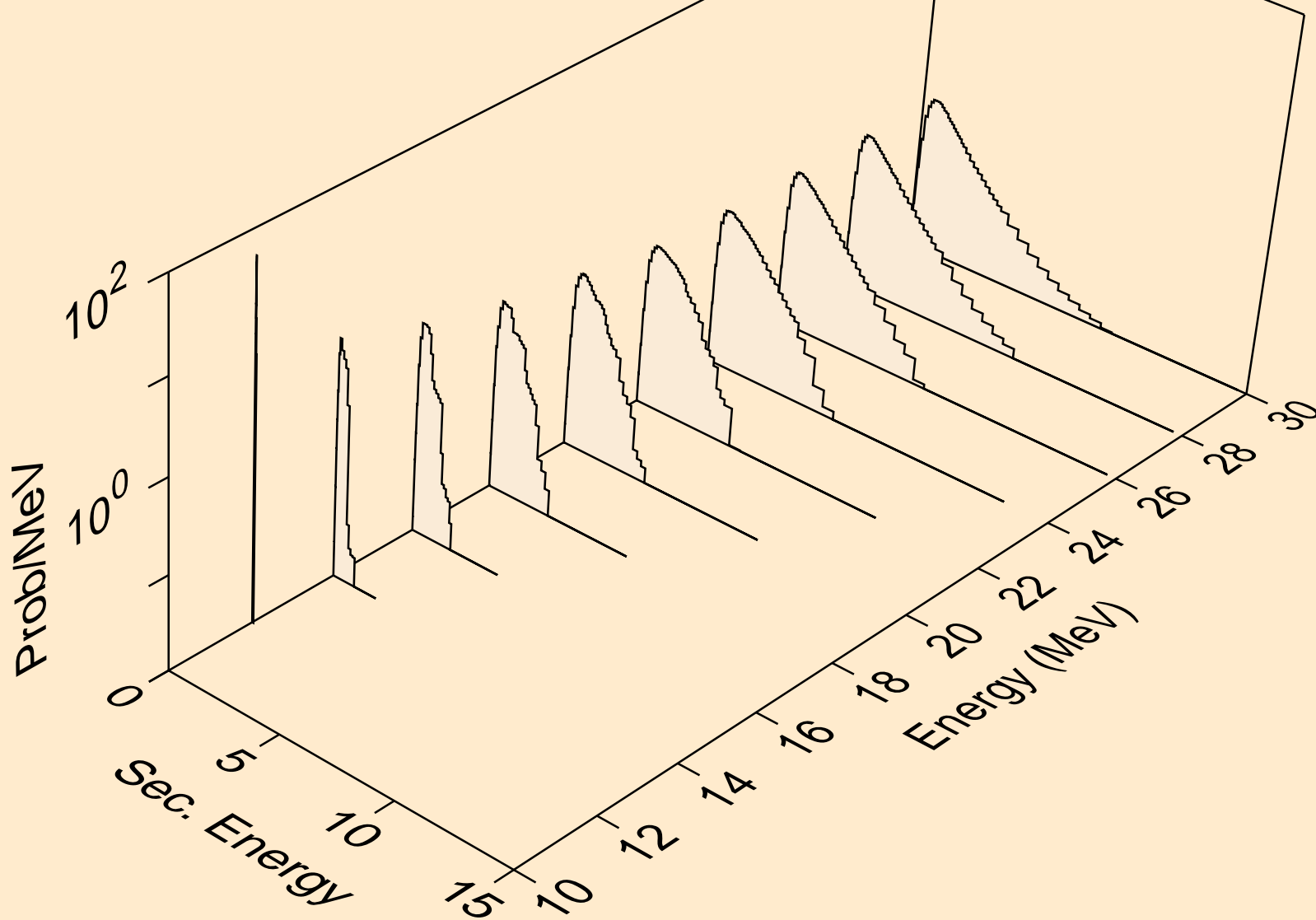
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



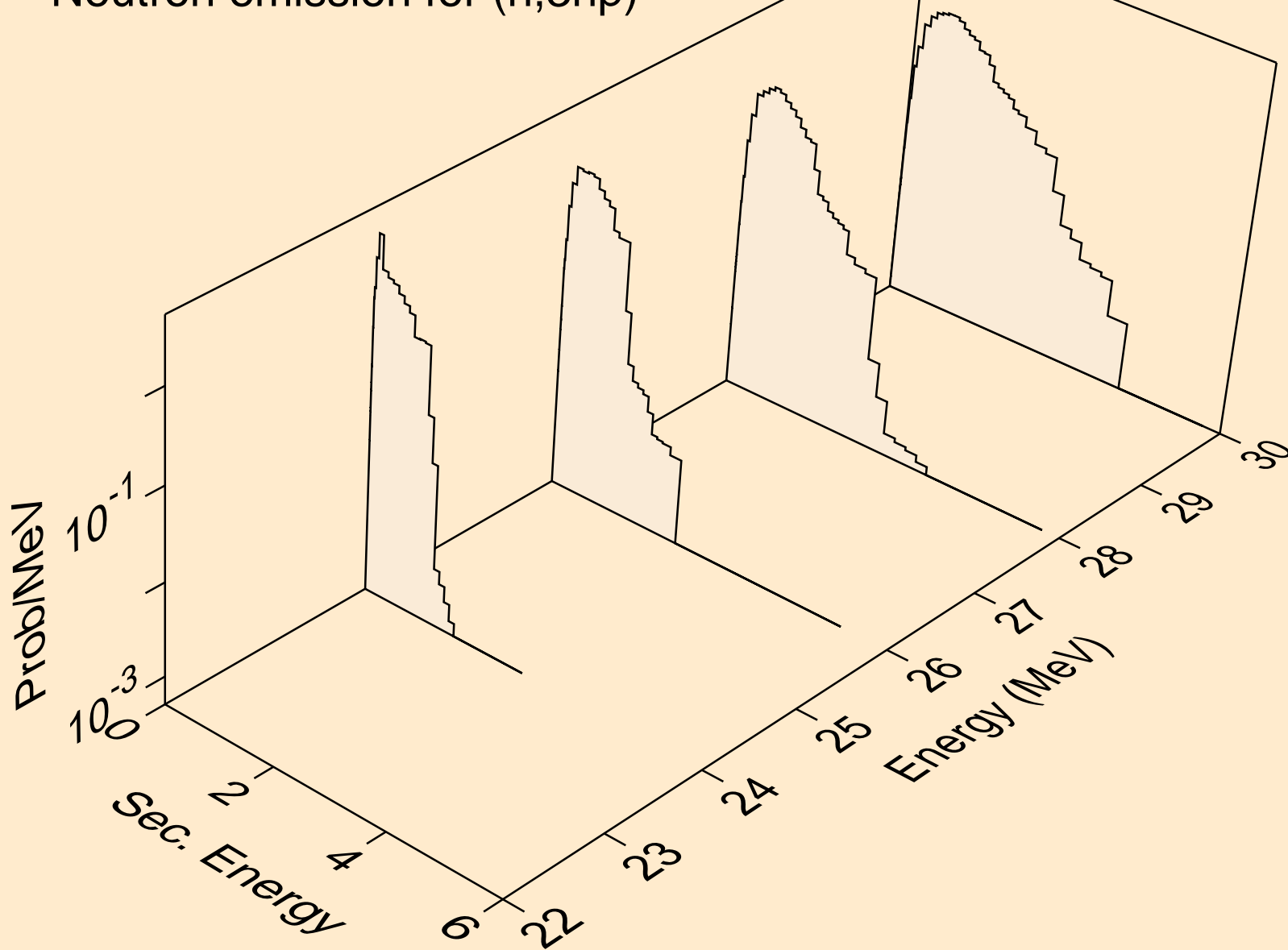
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



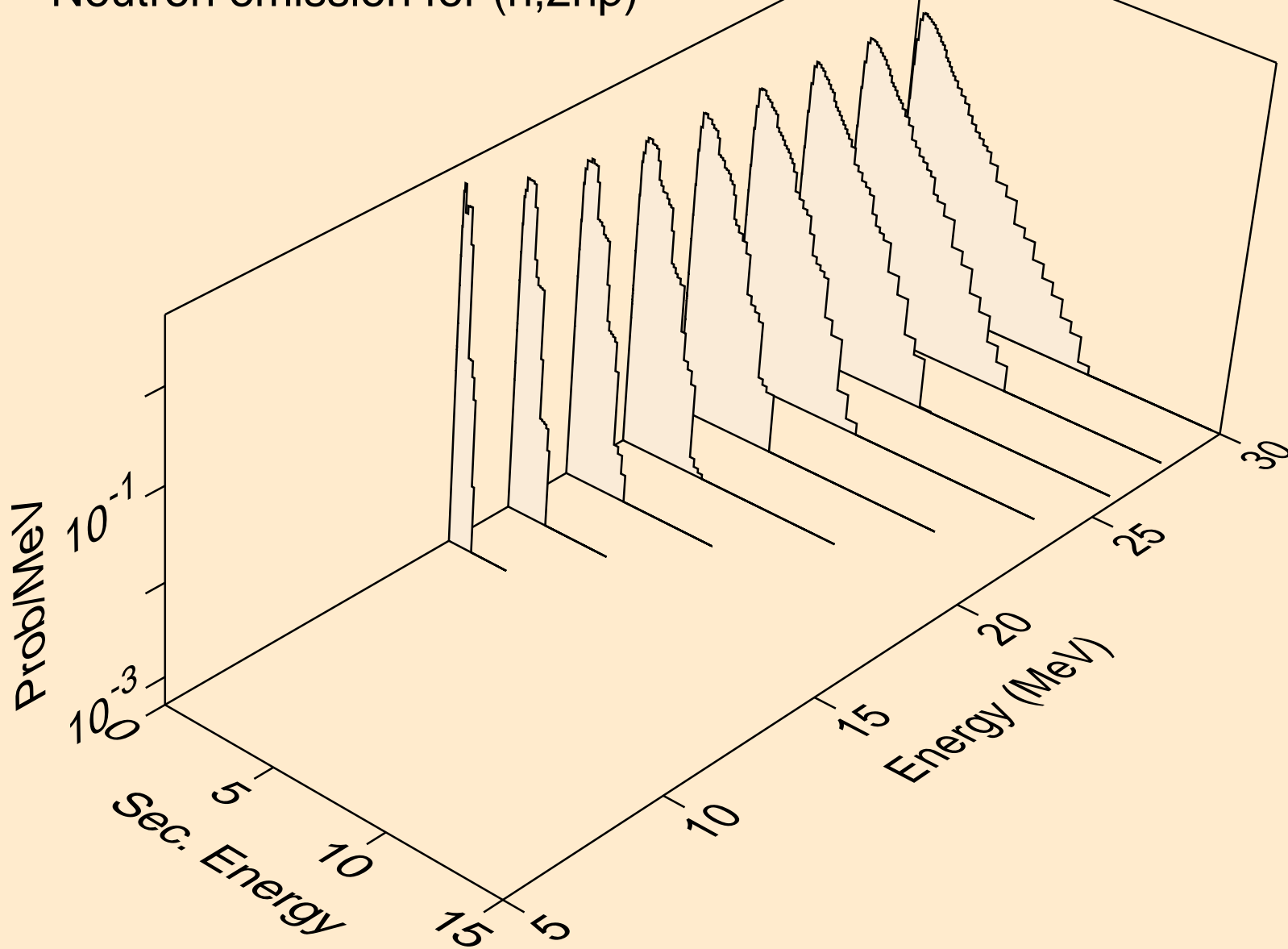
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)

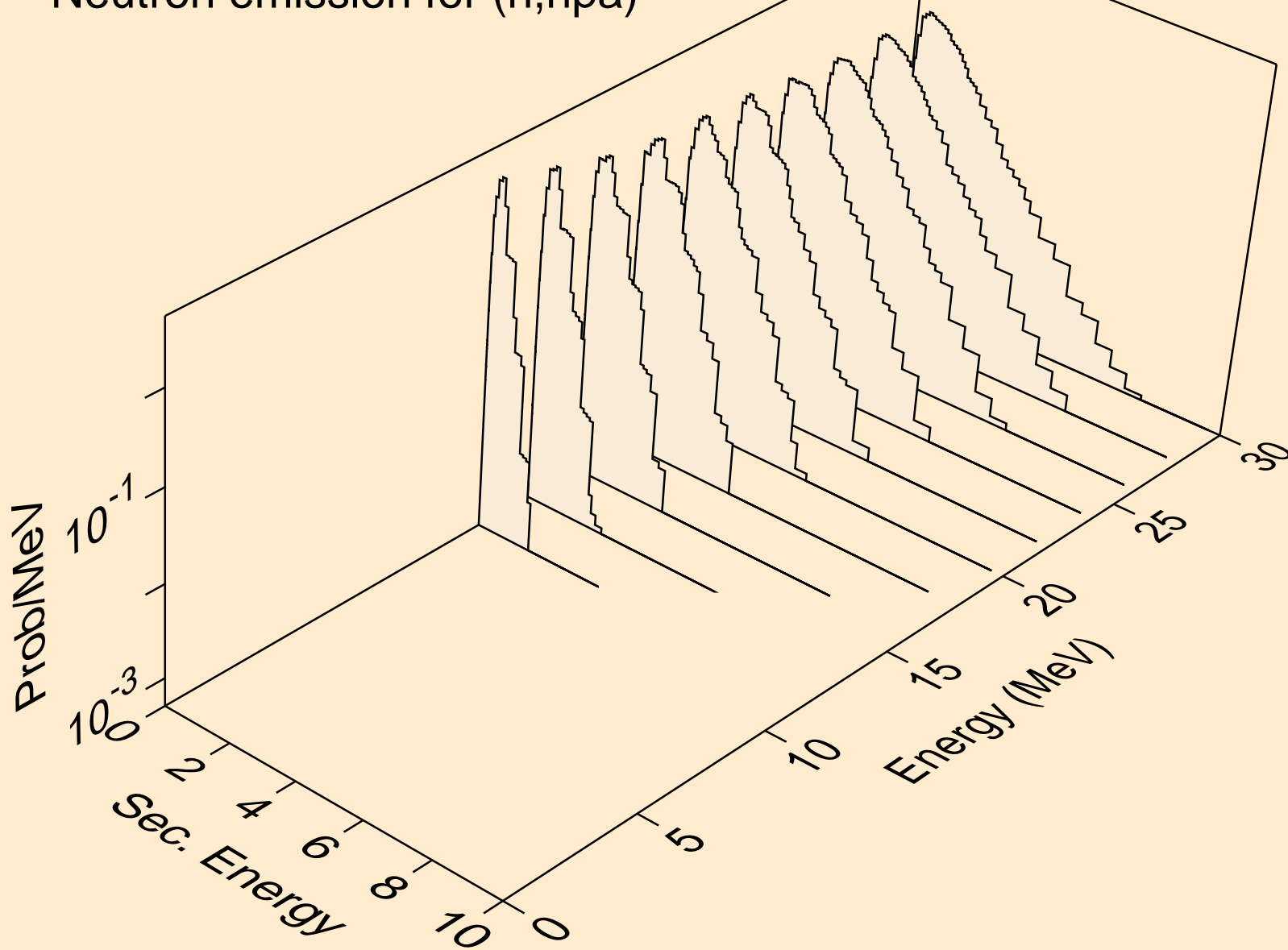


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)

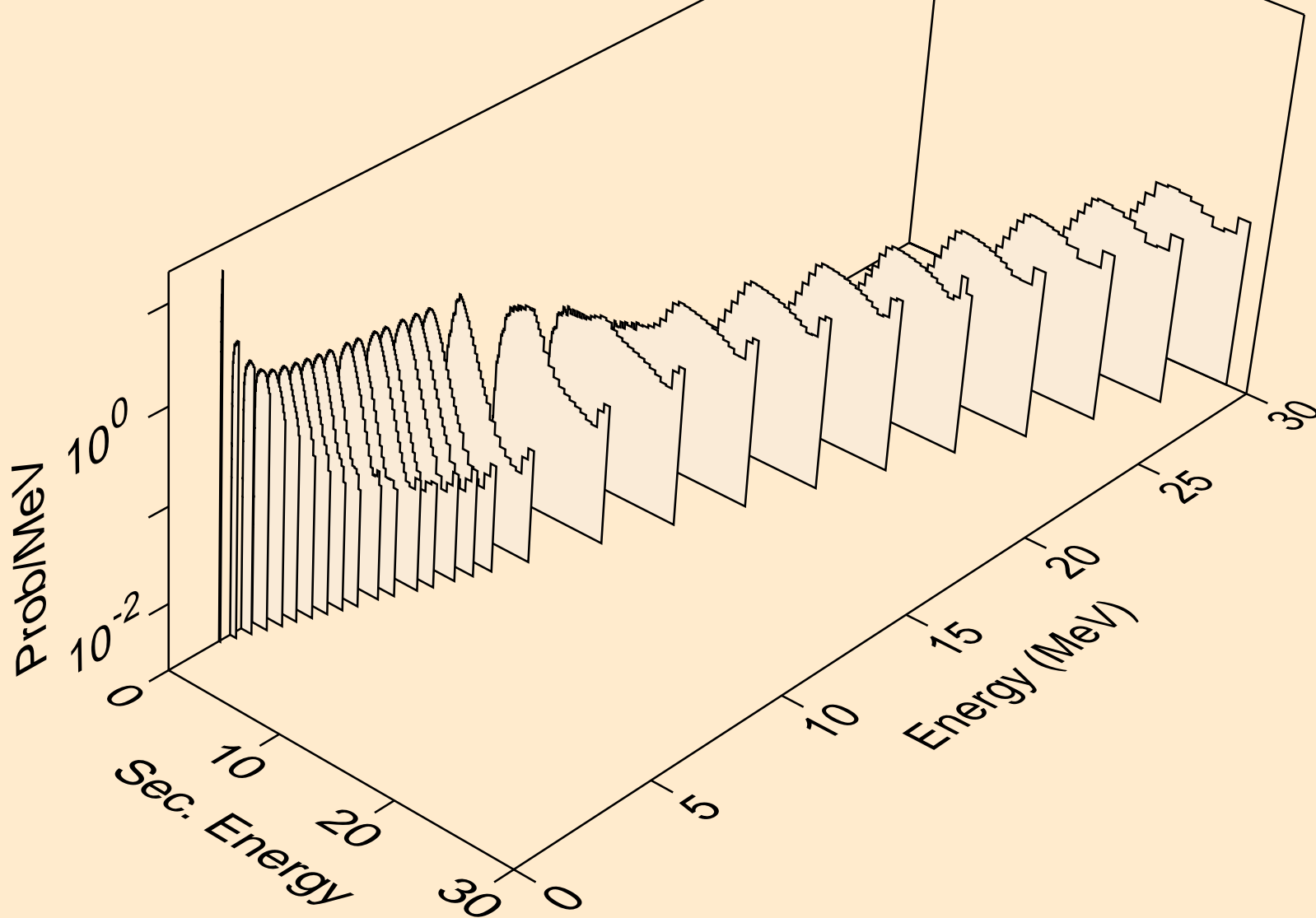




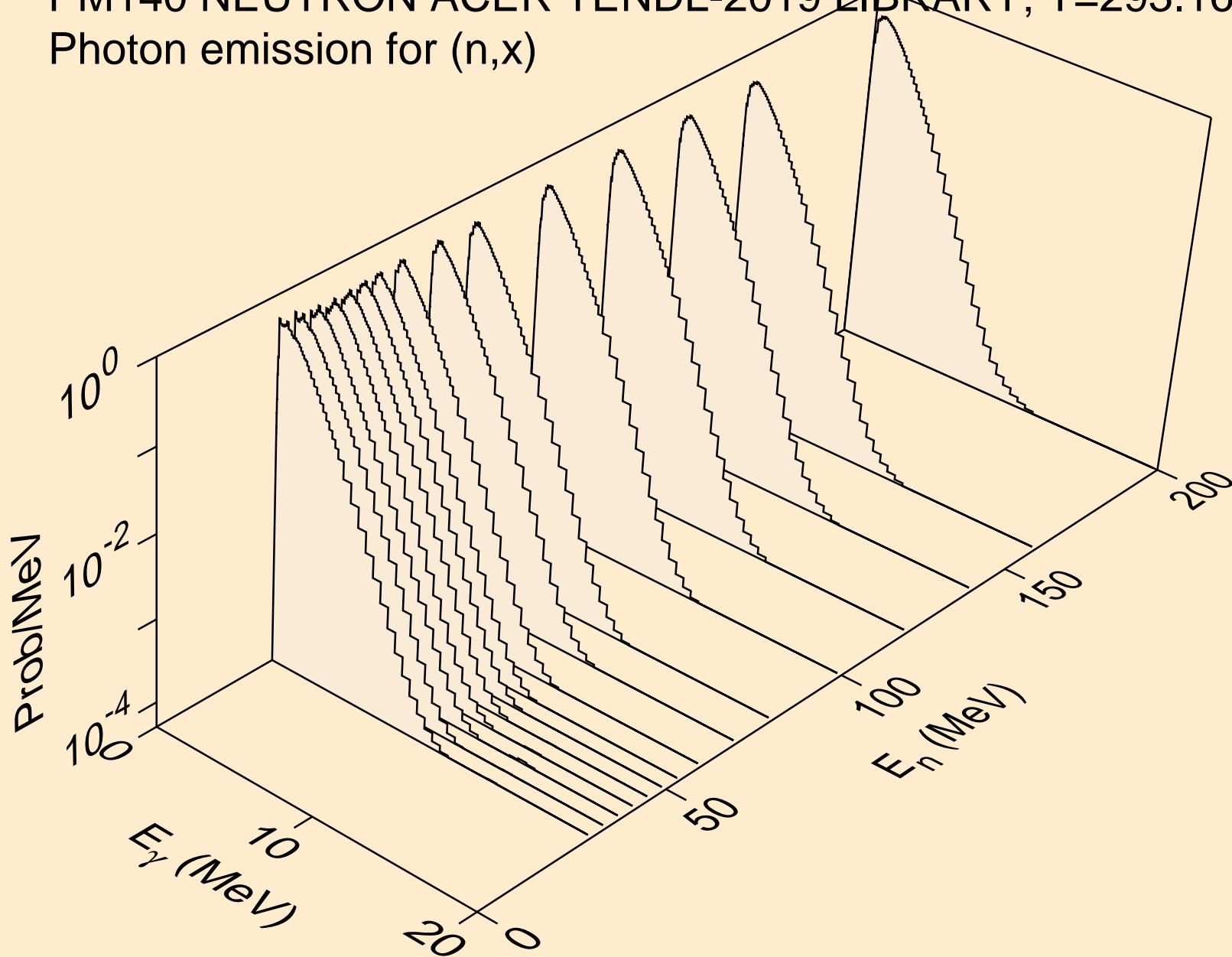
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)



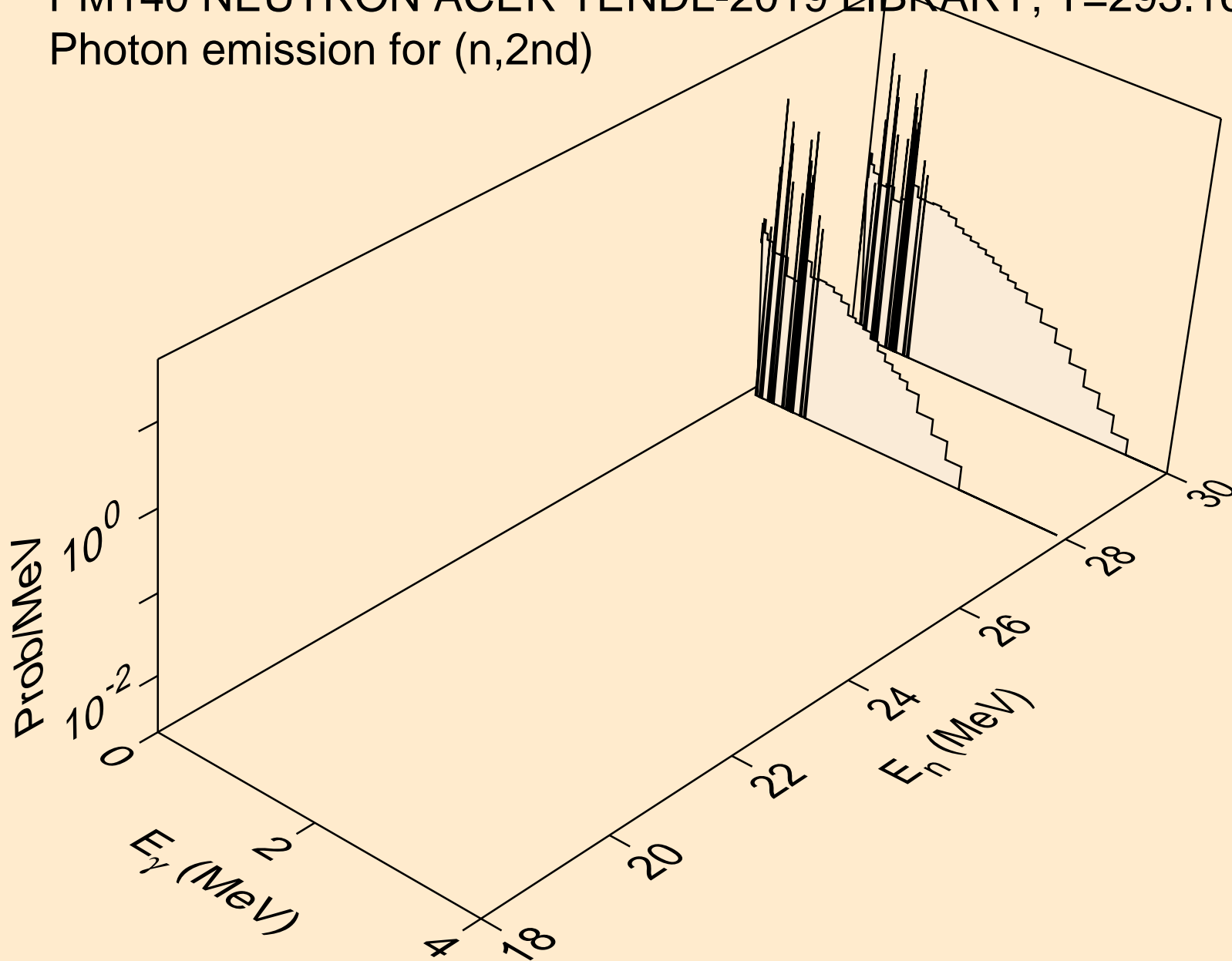
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



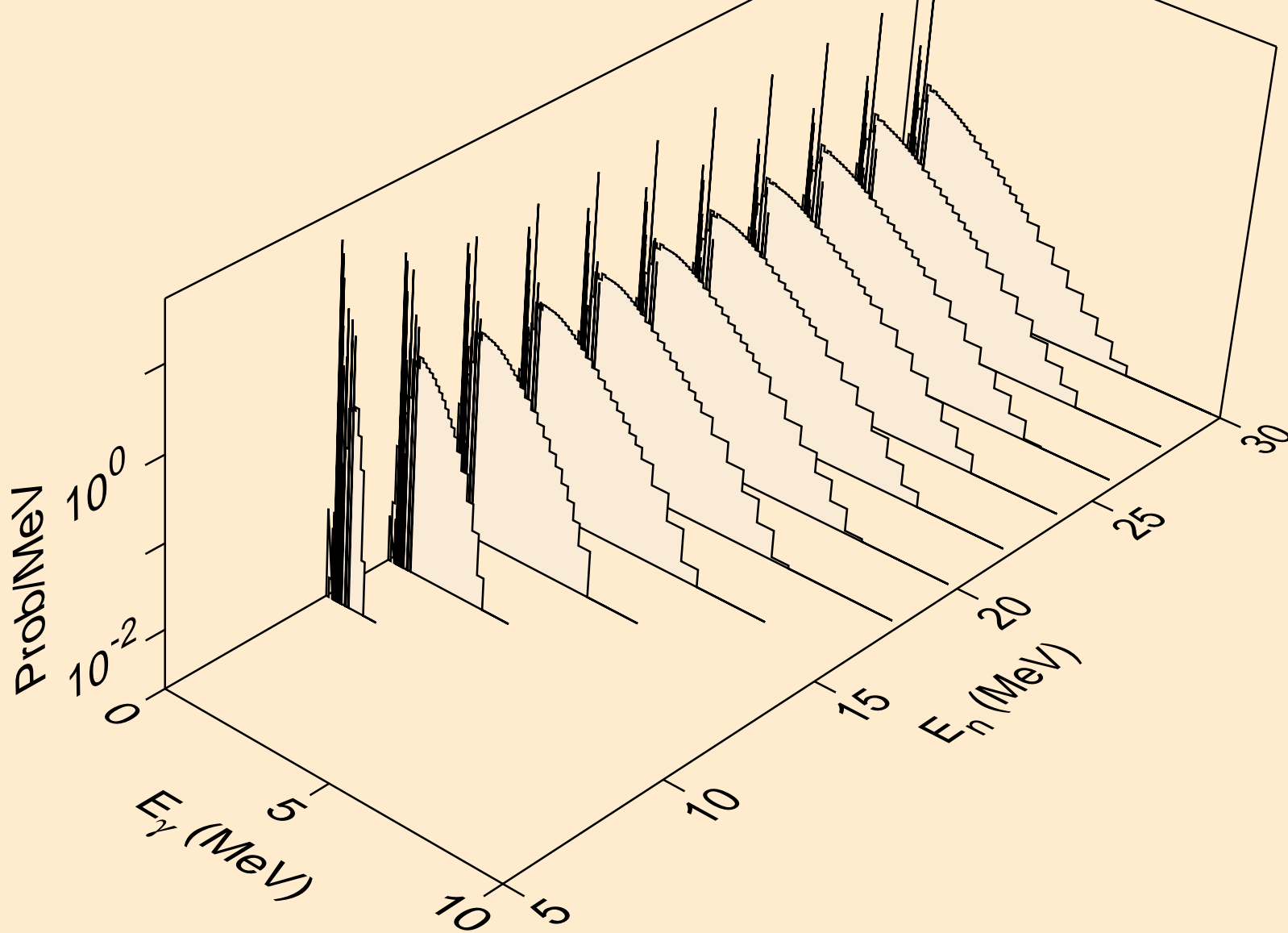
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



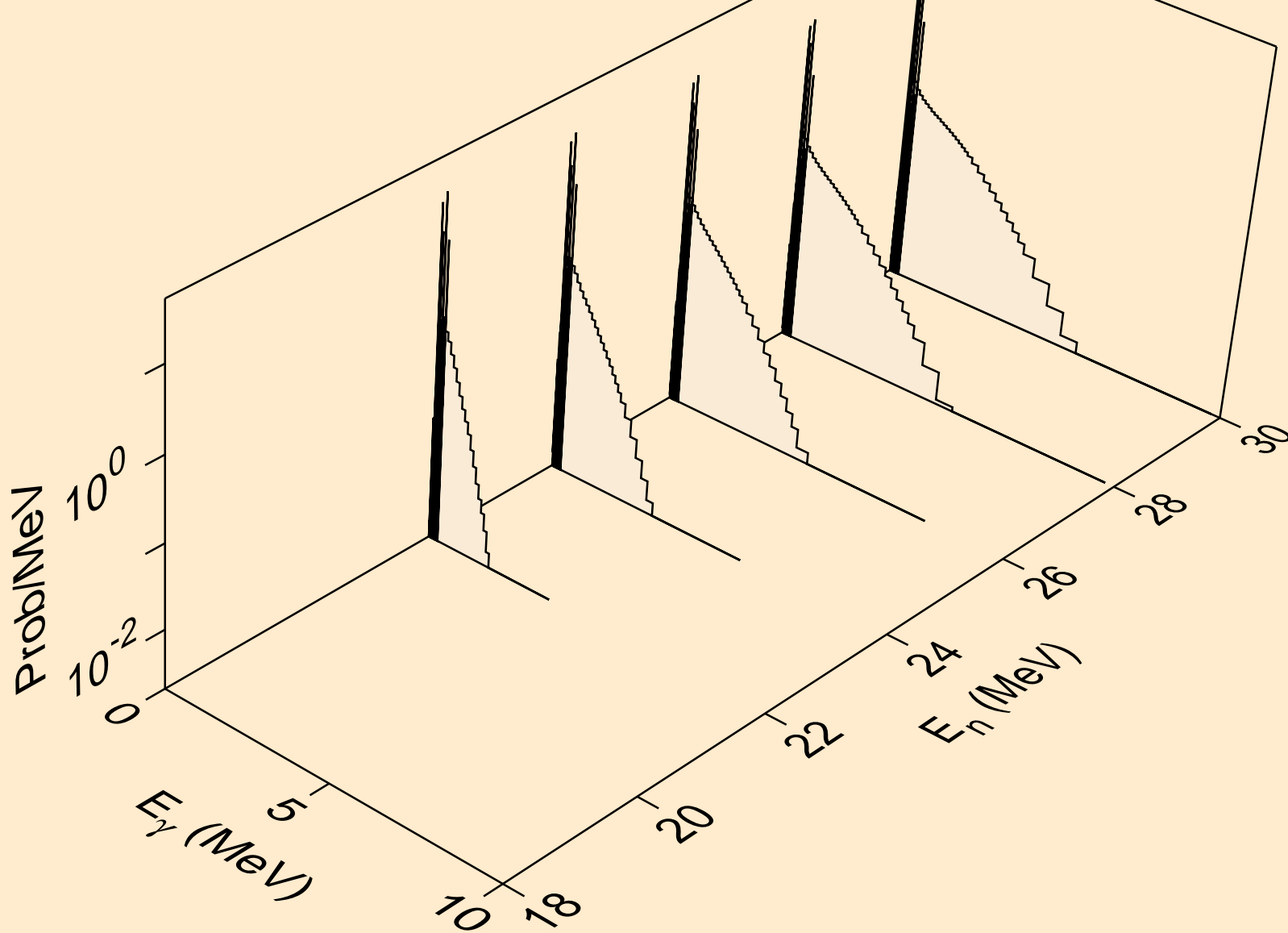
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)



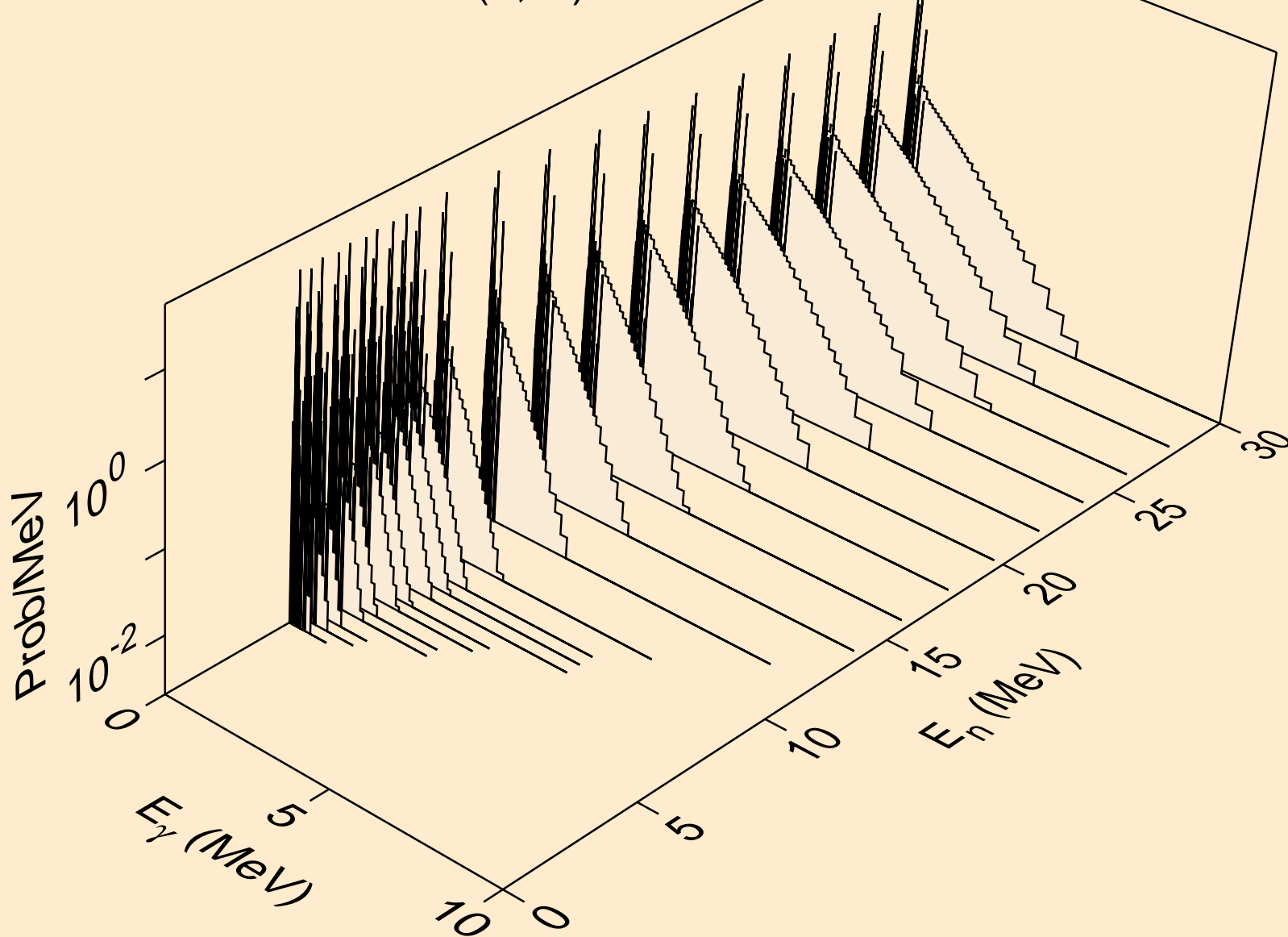
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Photon emission for (n,2n)



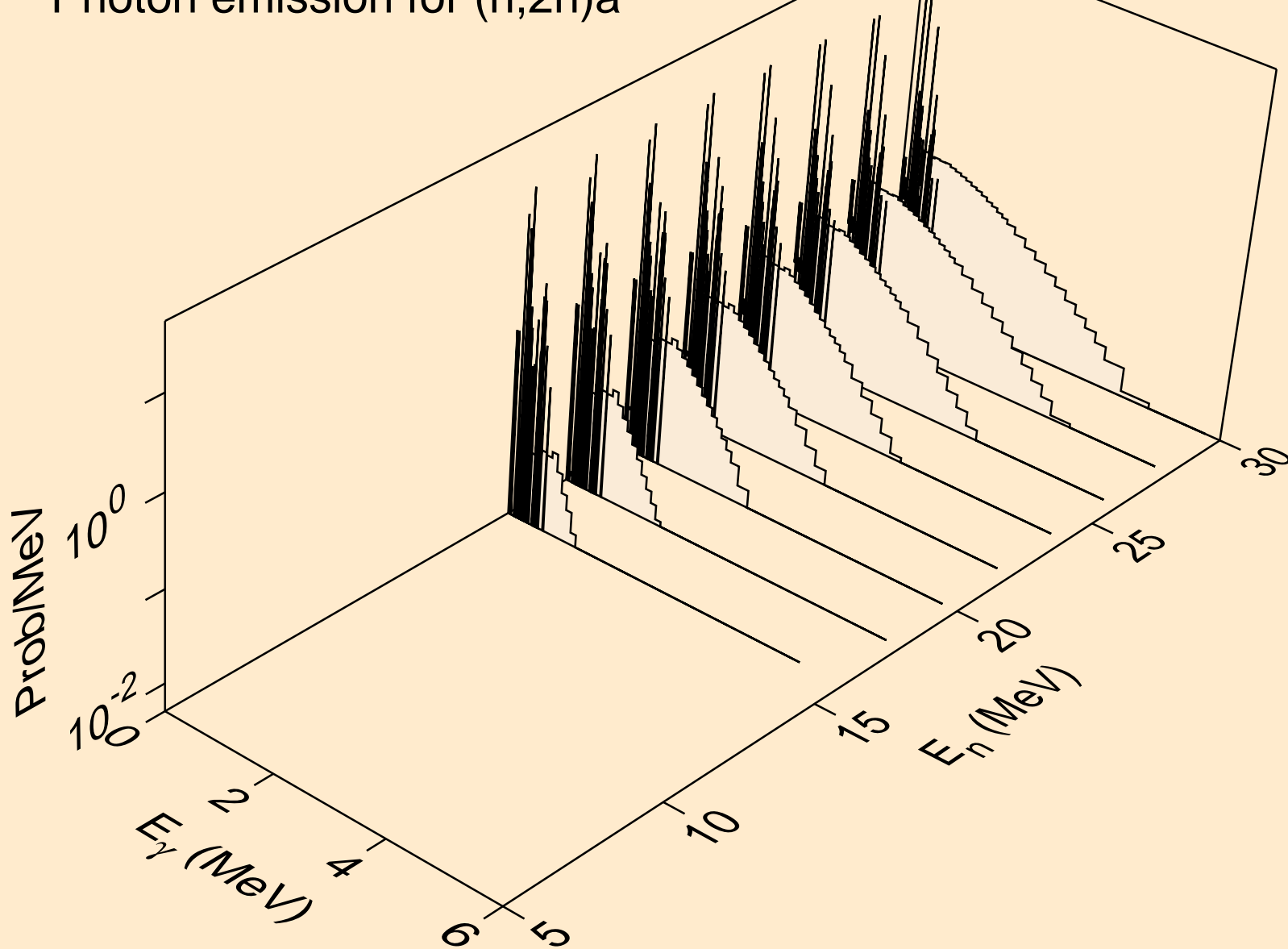
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a

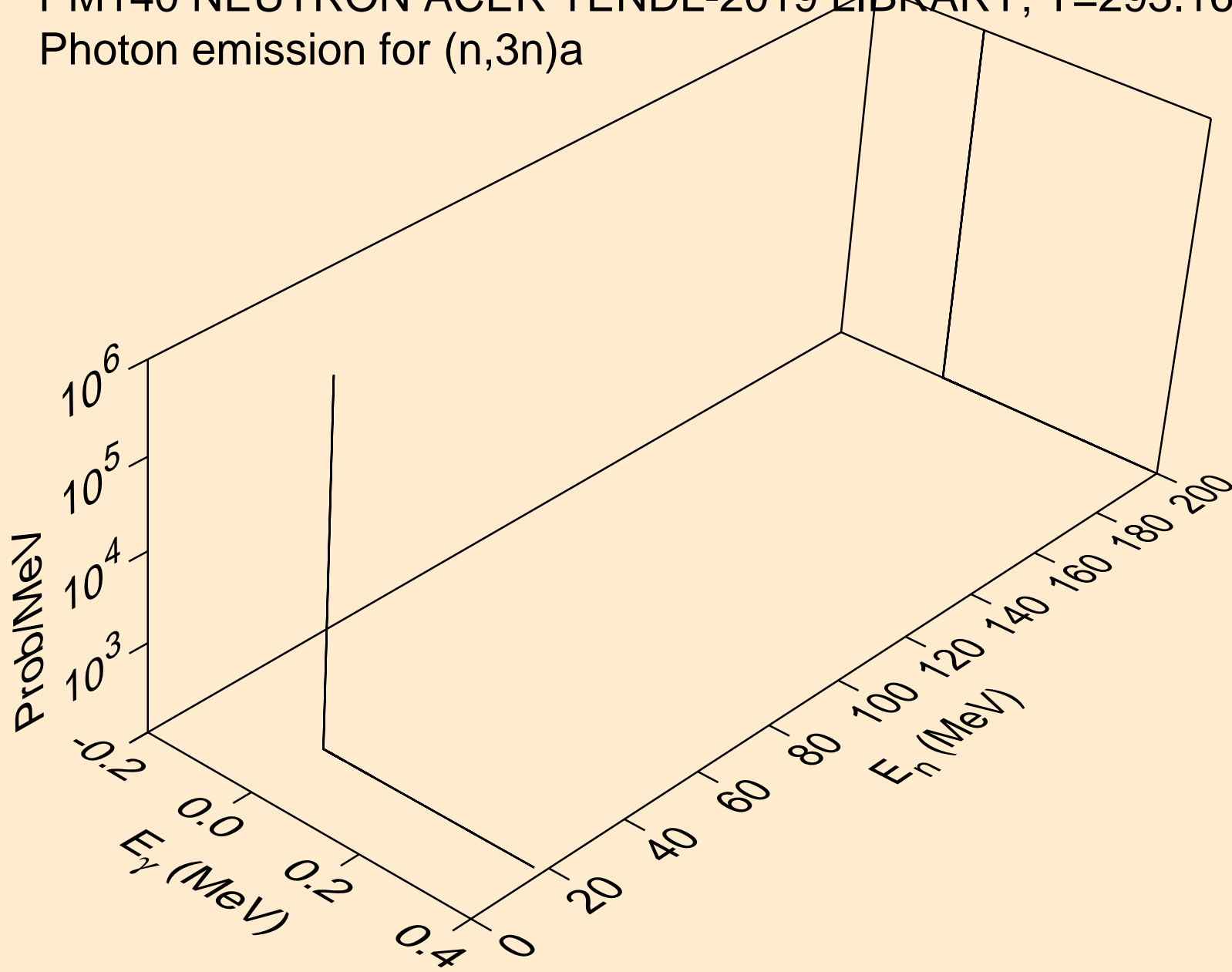


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a

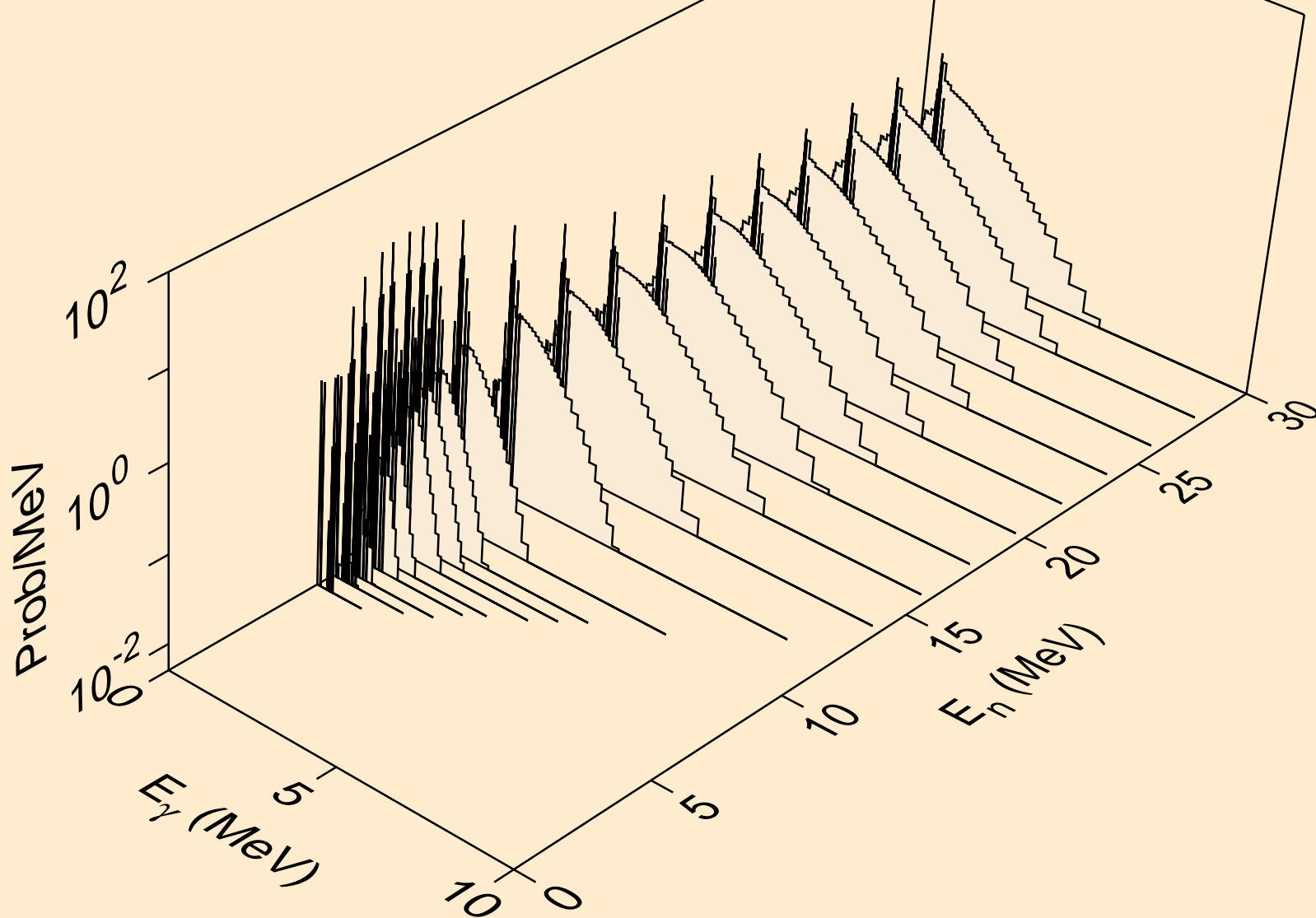




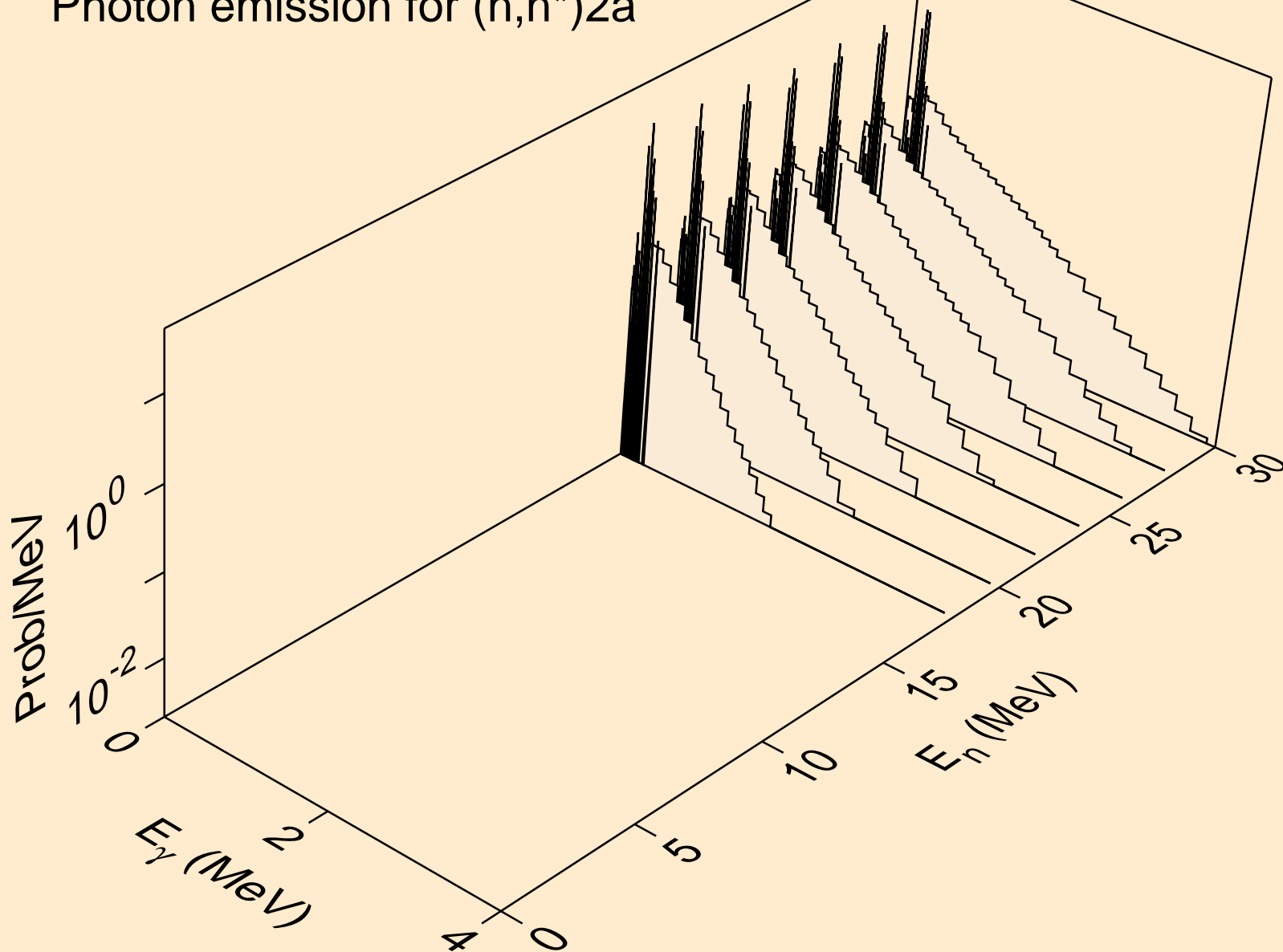
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)a



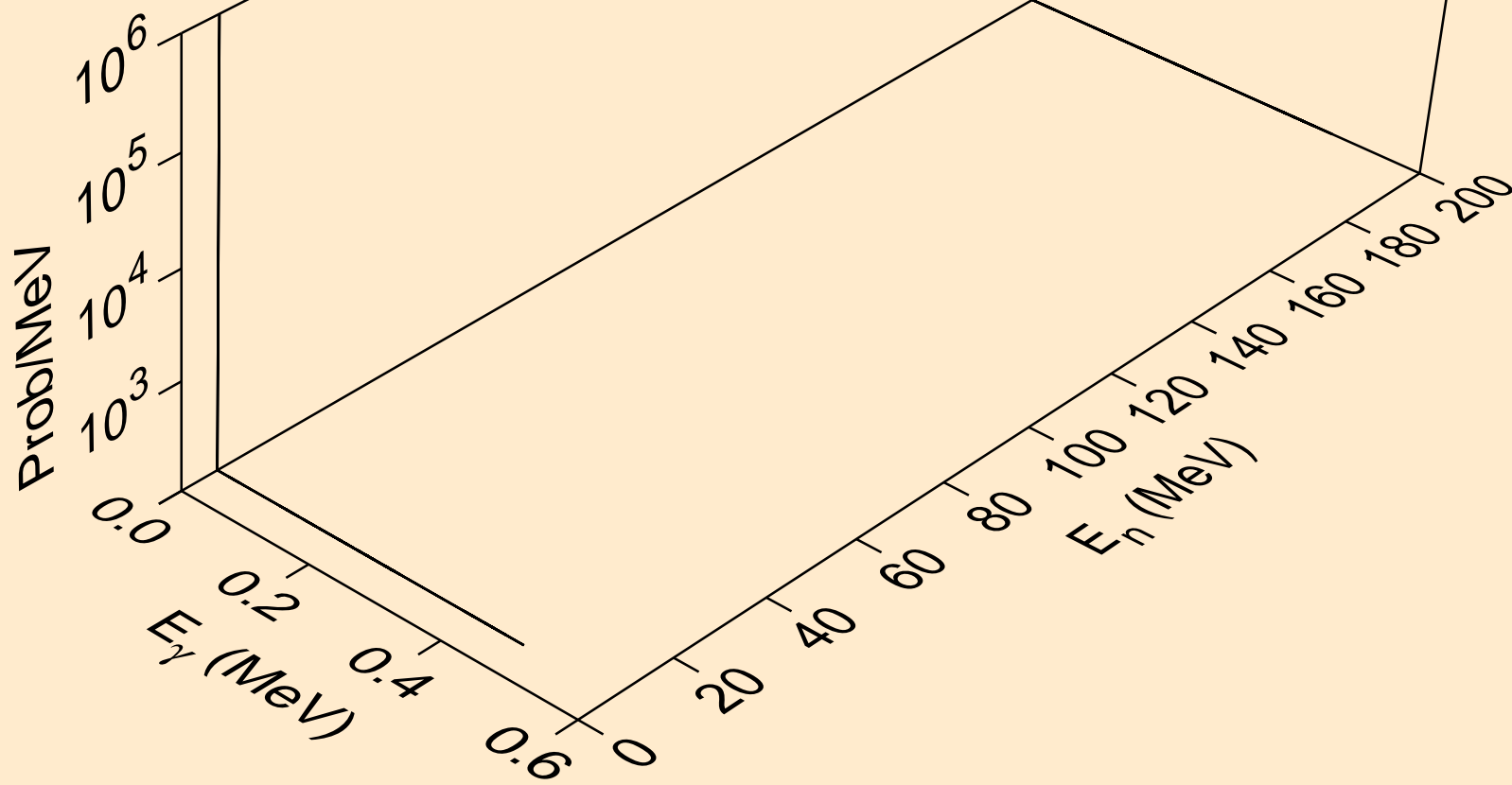
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



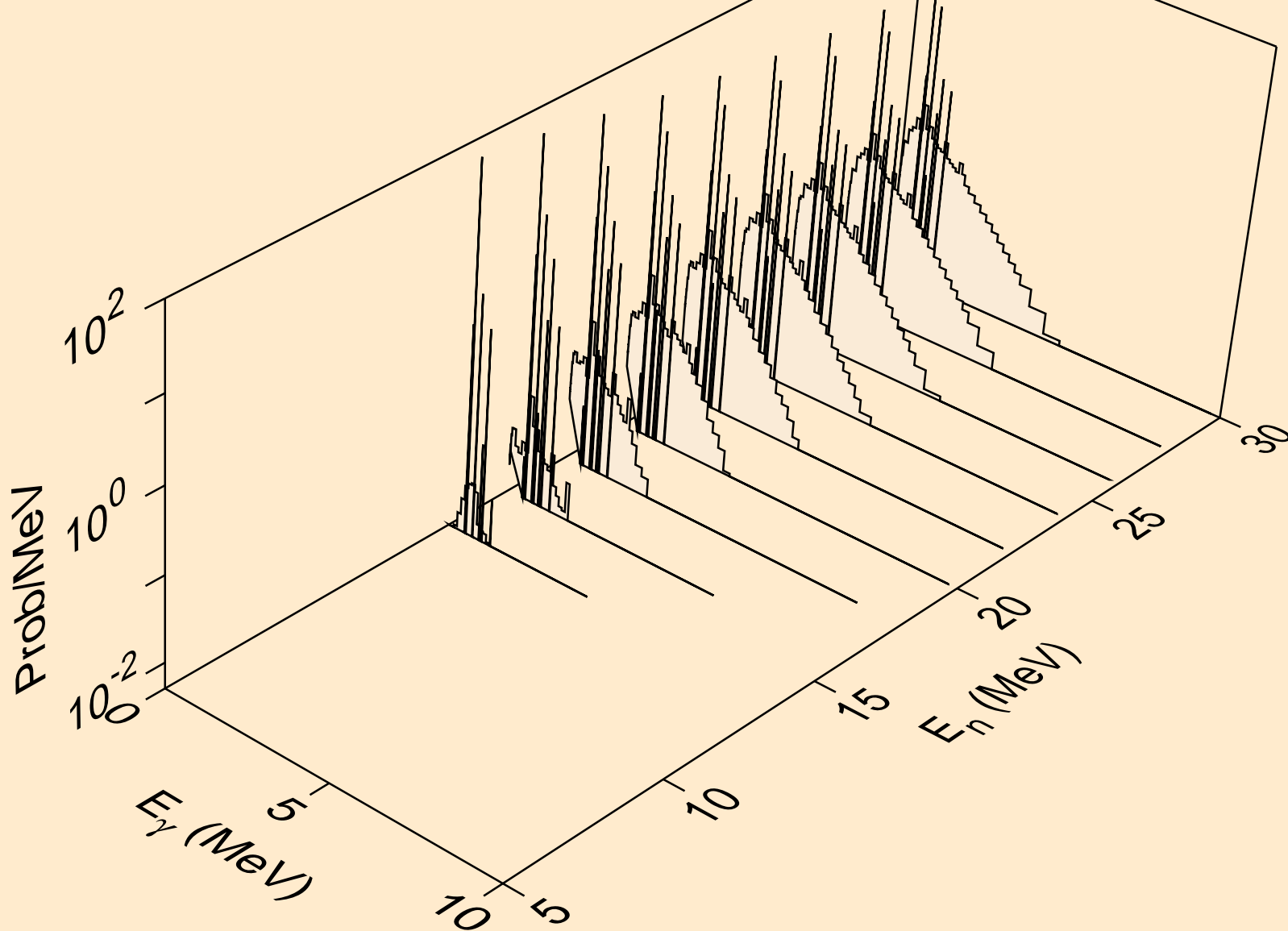
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a



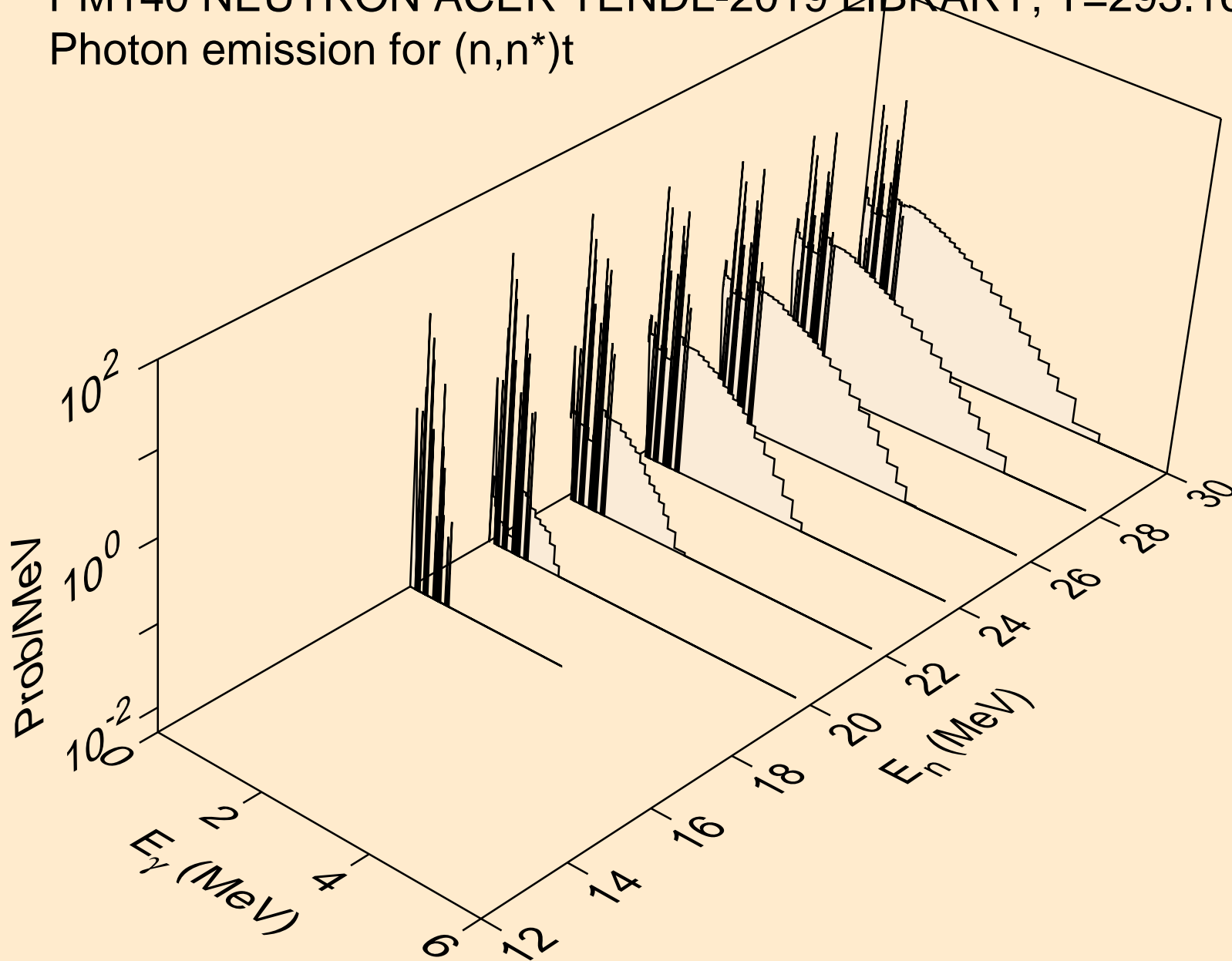
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)2a



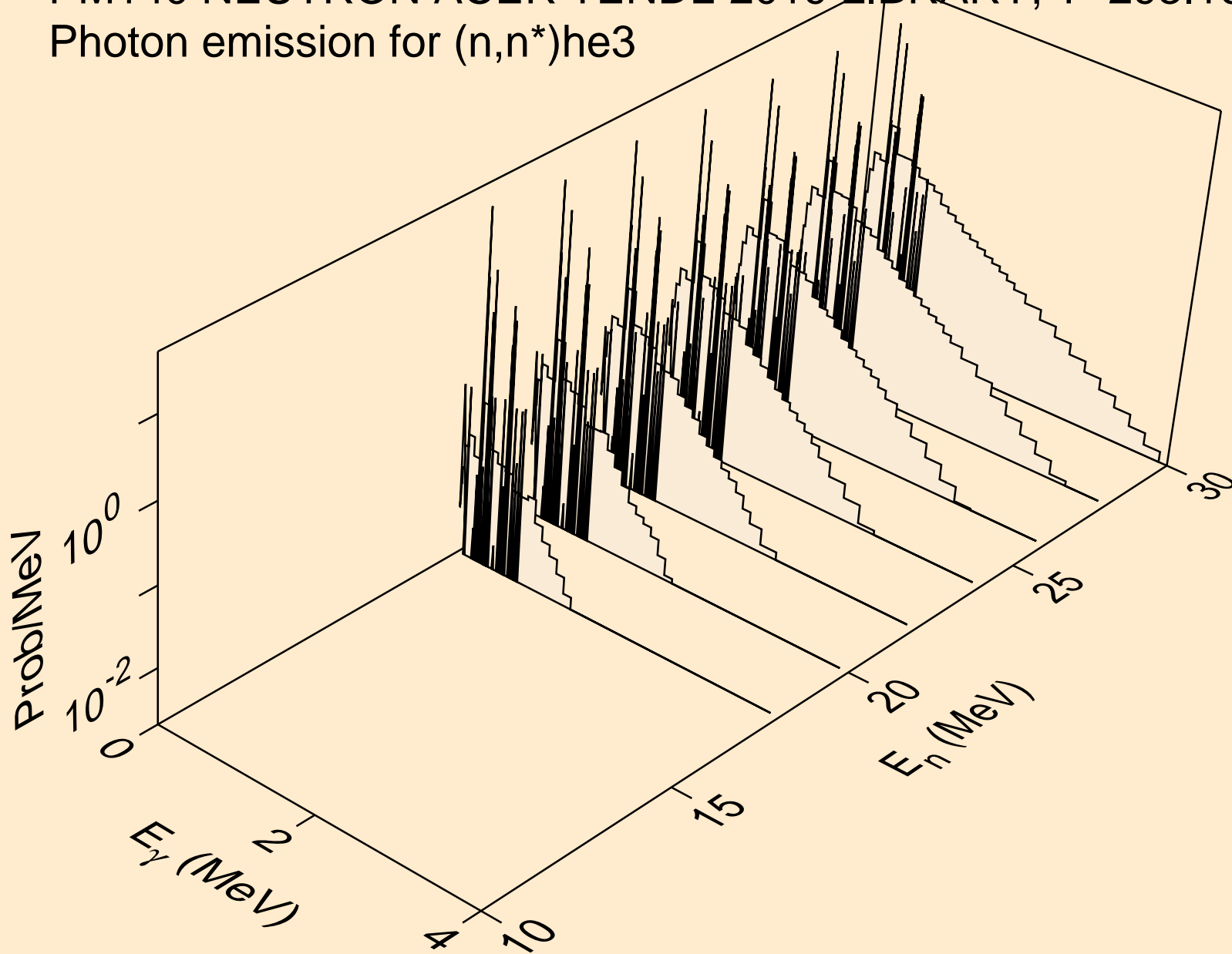
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



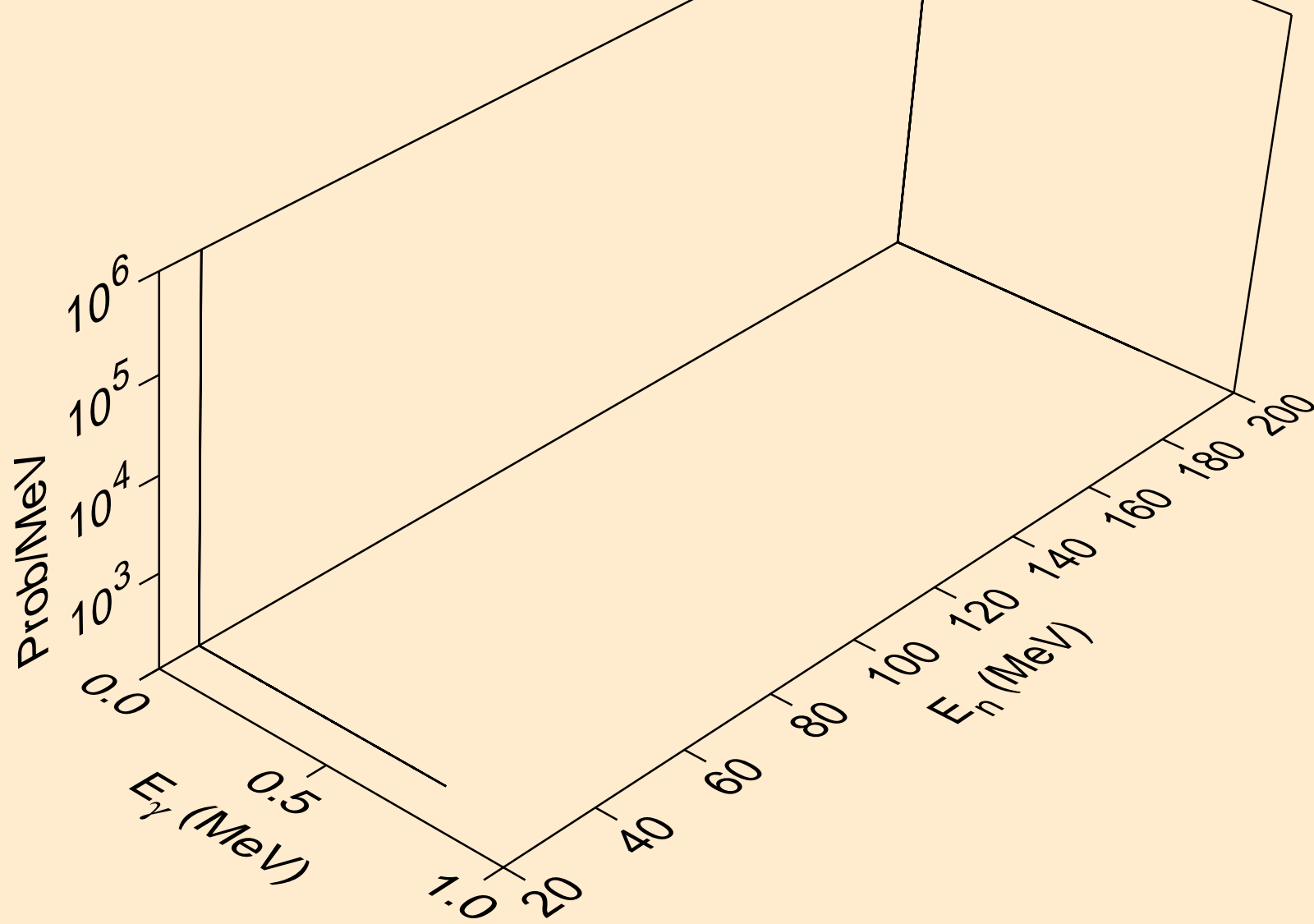
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3

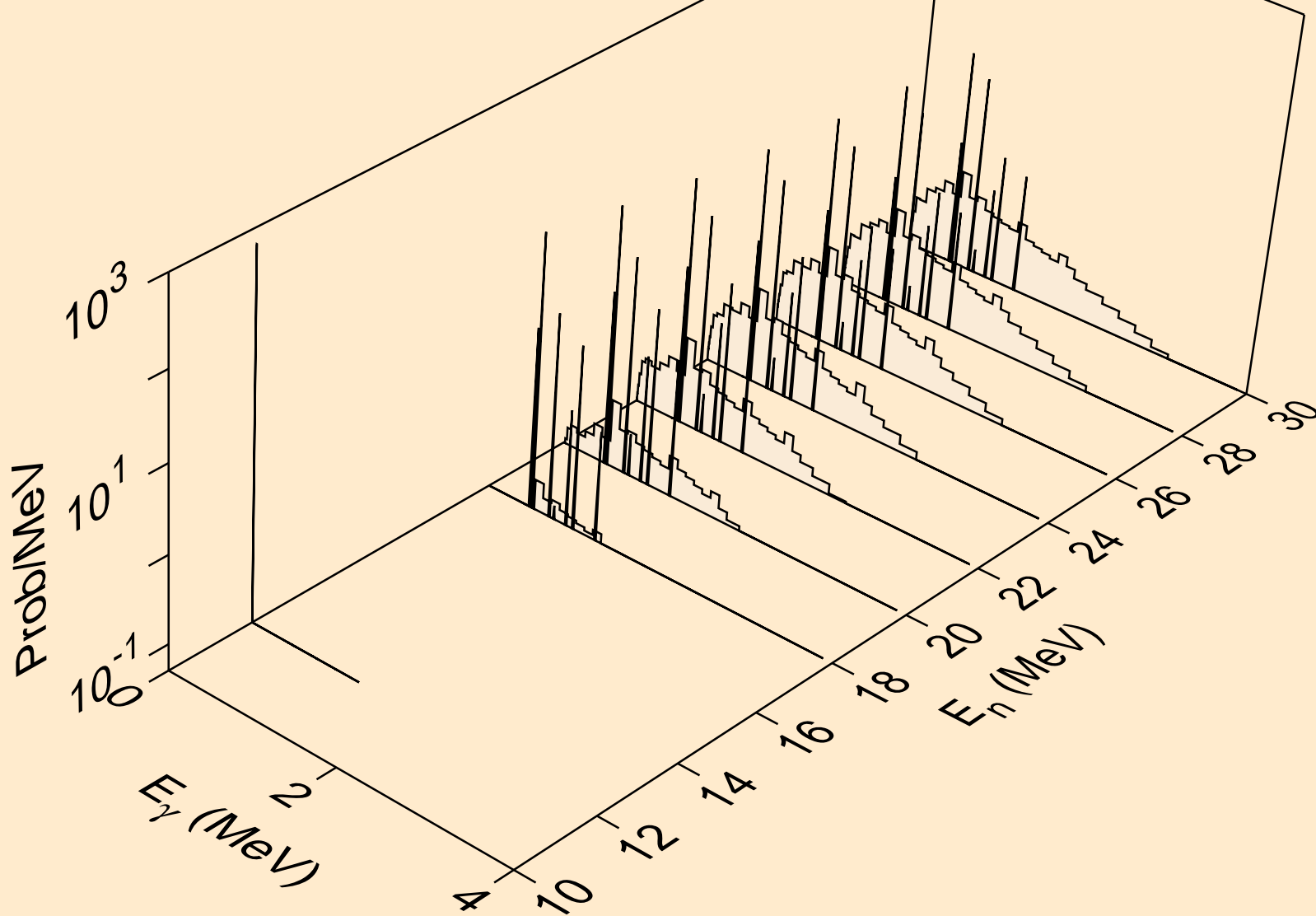


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Photon emission for (n,4n)

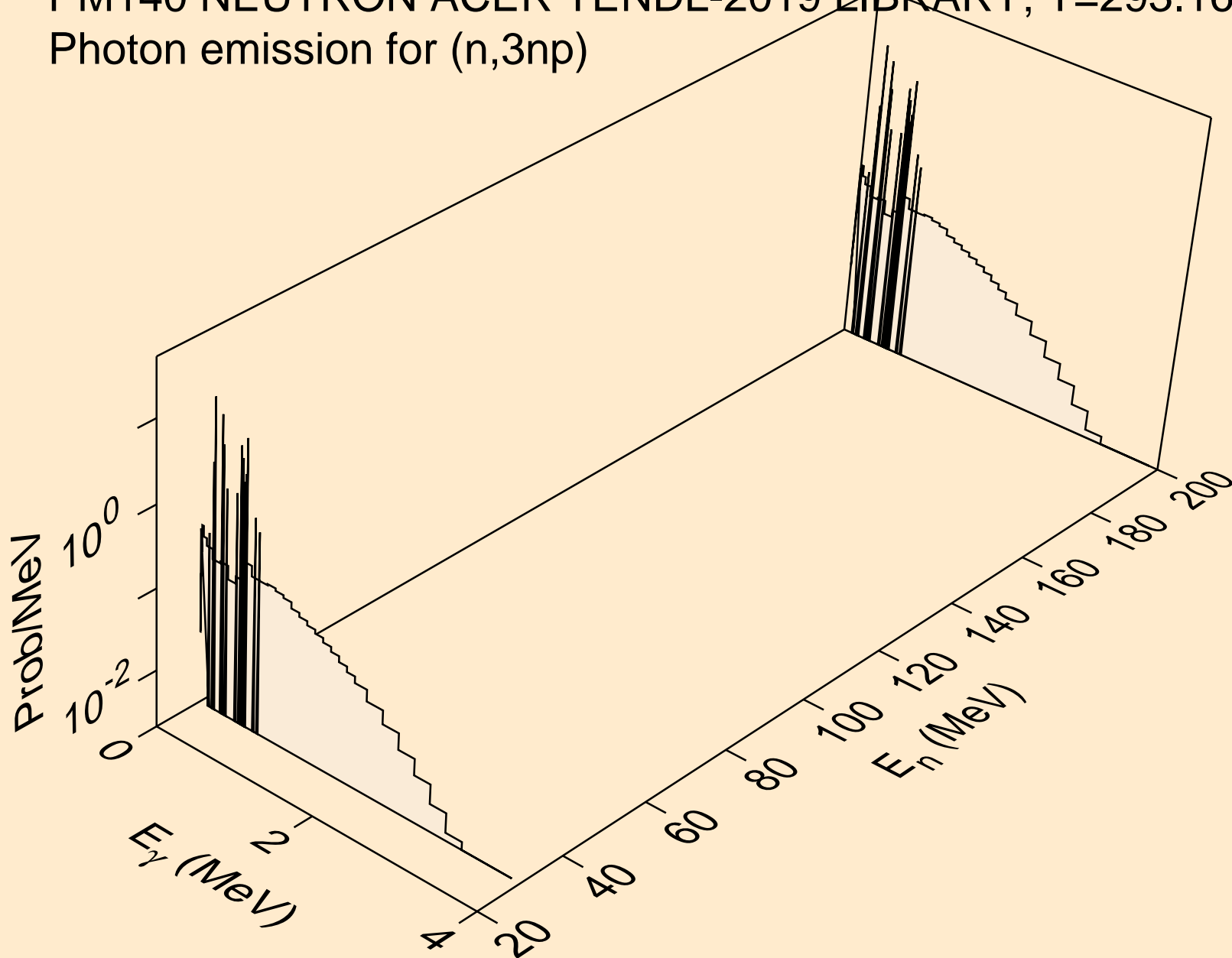




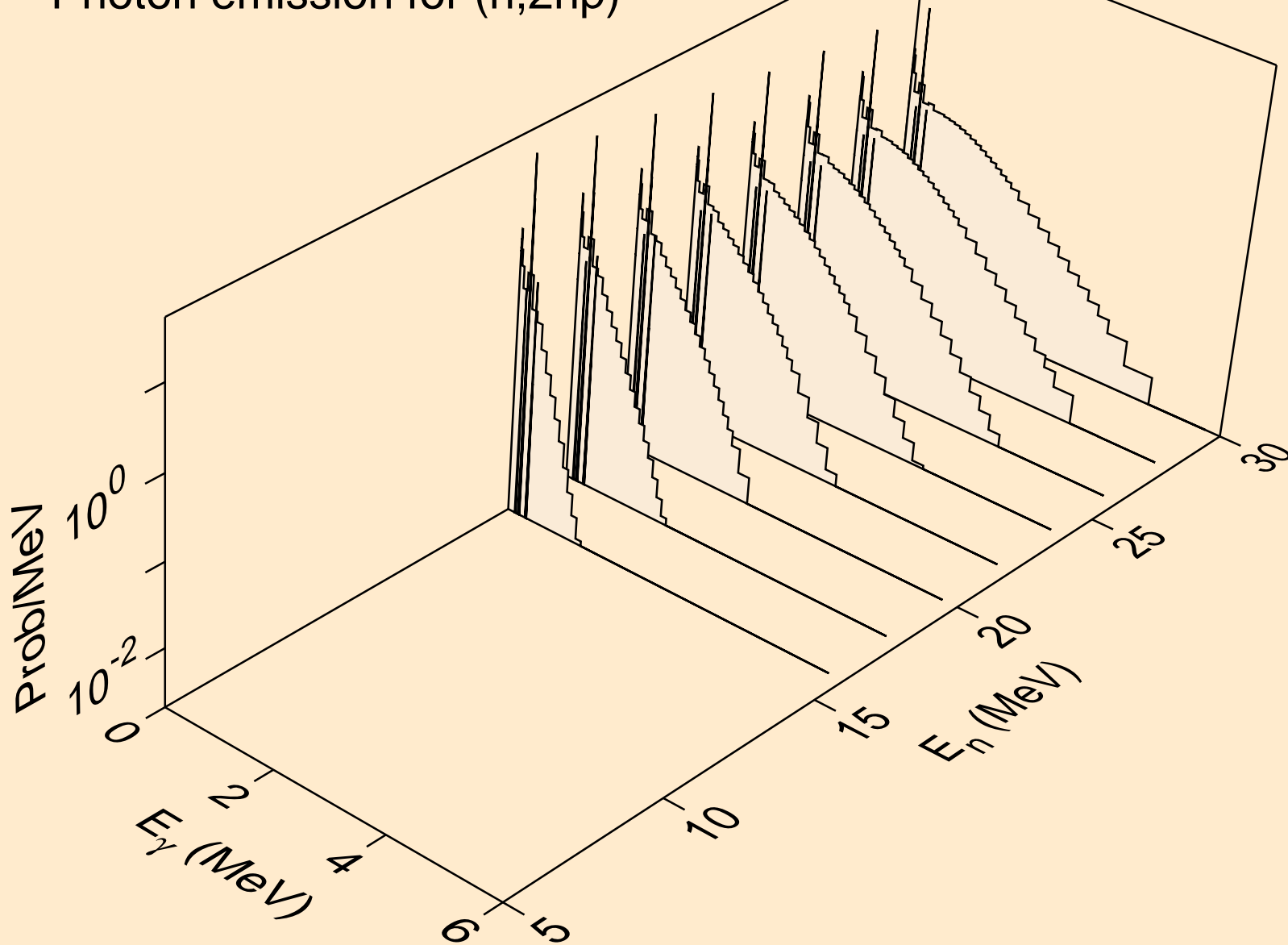
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Photon emission for (n,2np)



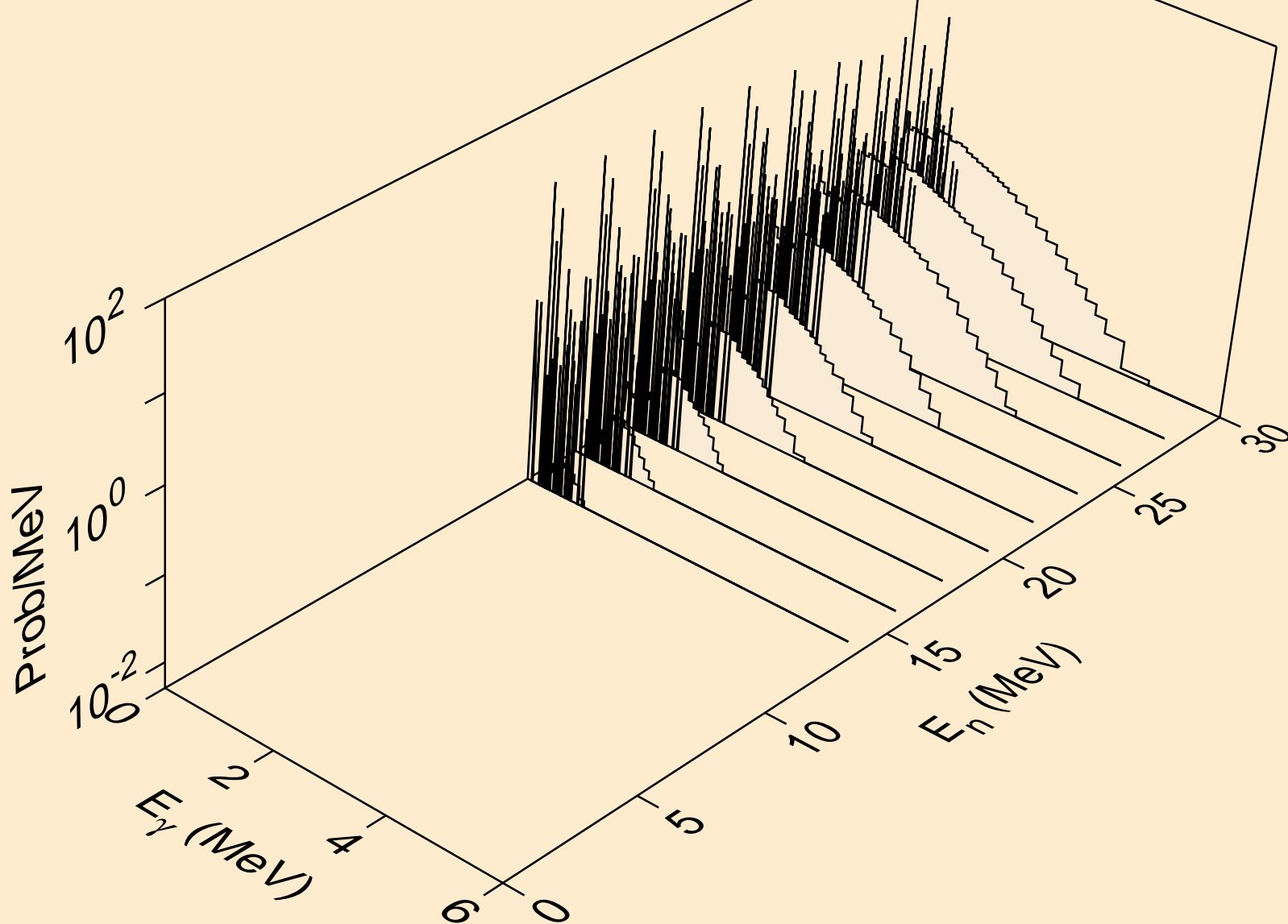
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Photon emission for (n,3np)



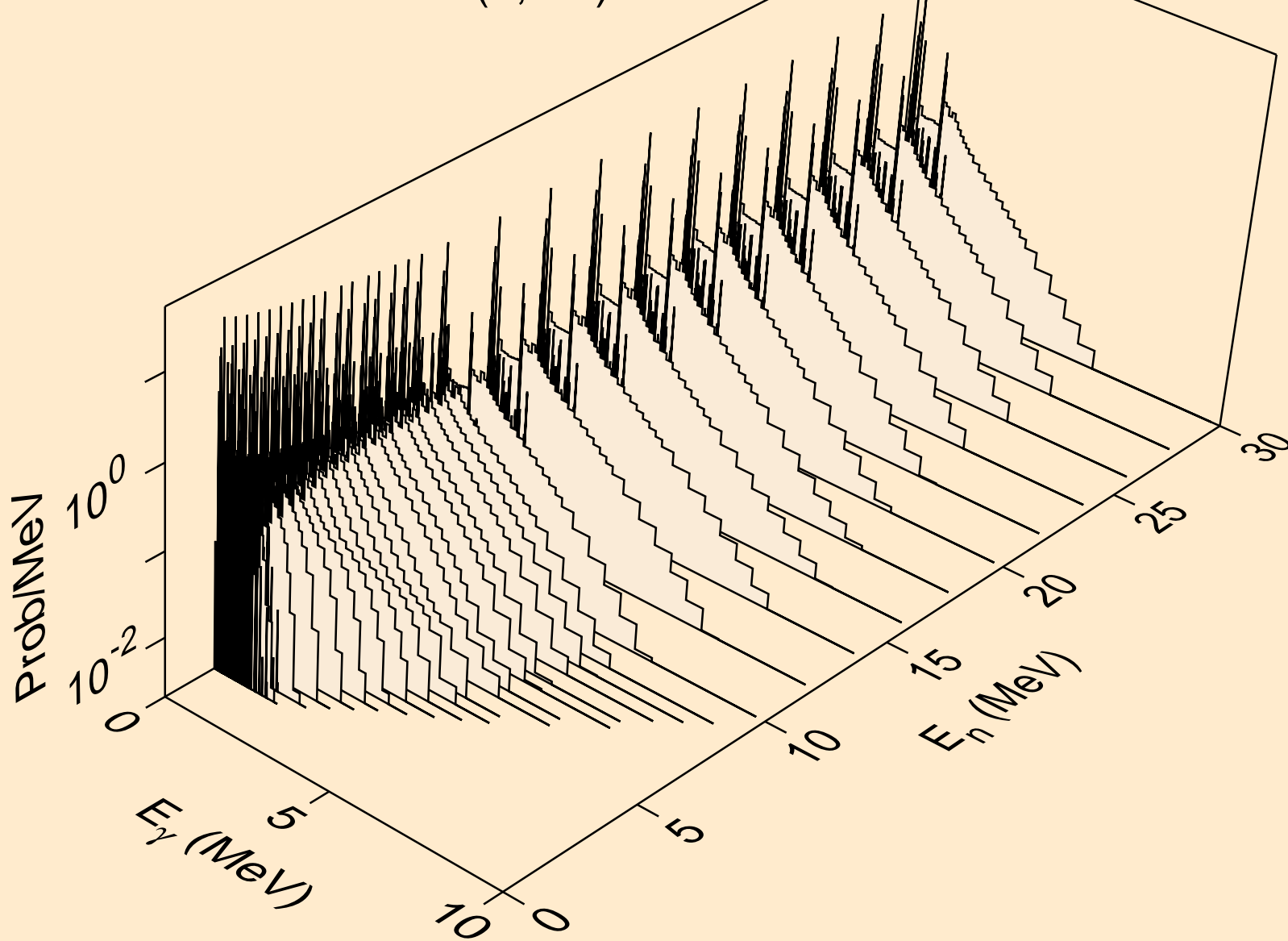
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Photon emission for (n,2np)



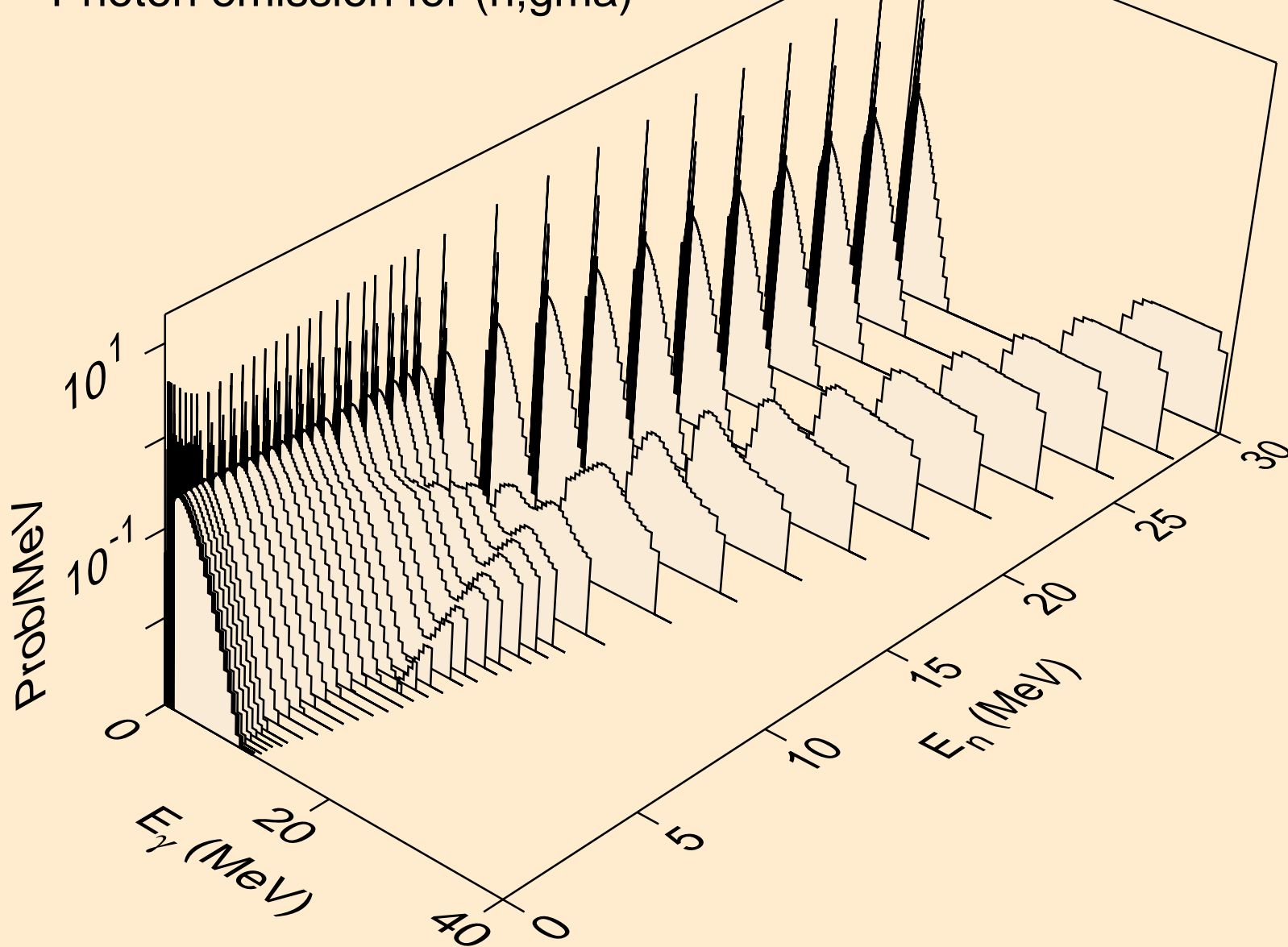
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,npa)



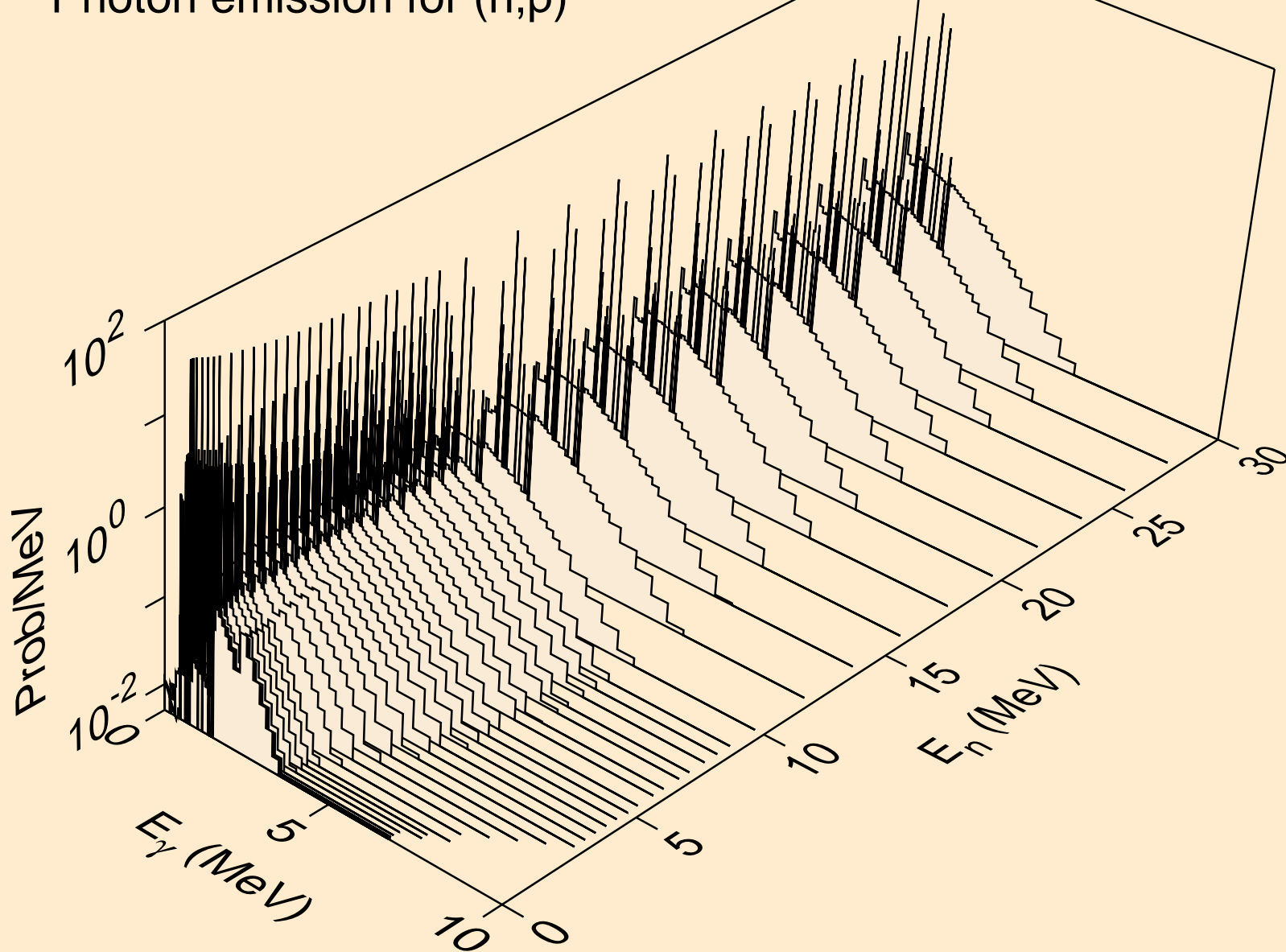
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)



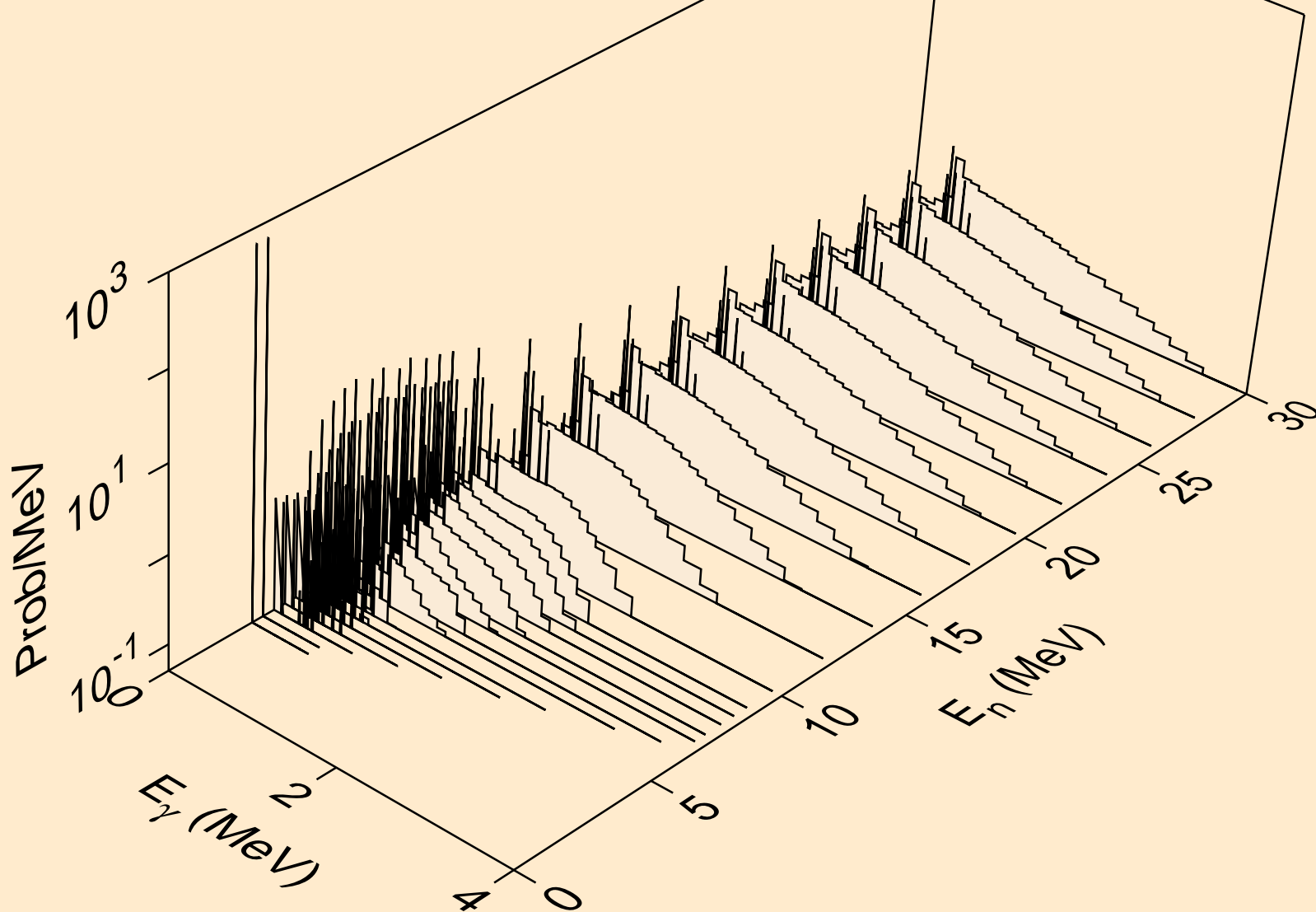
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)

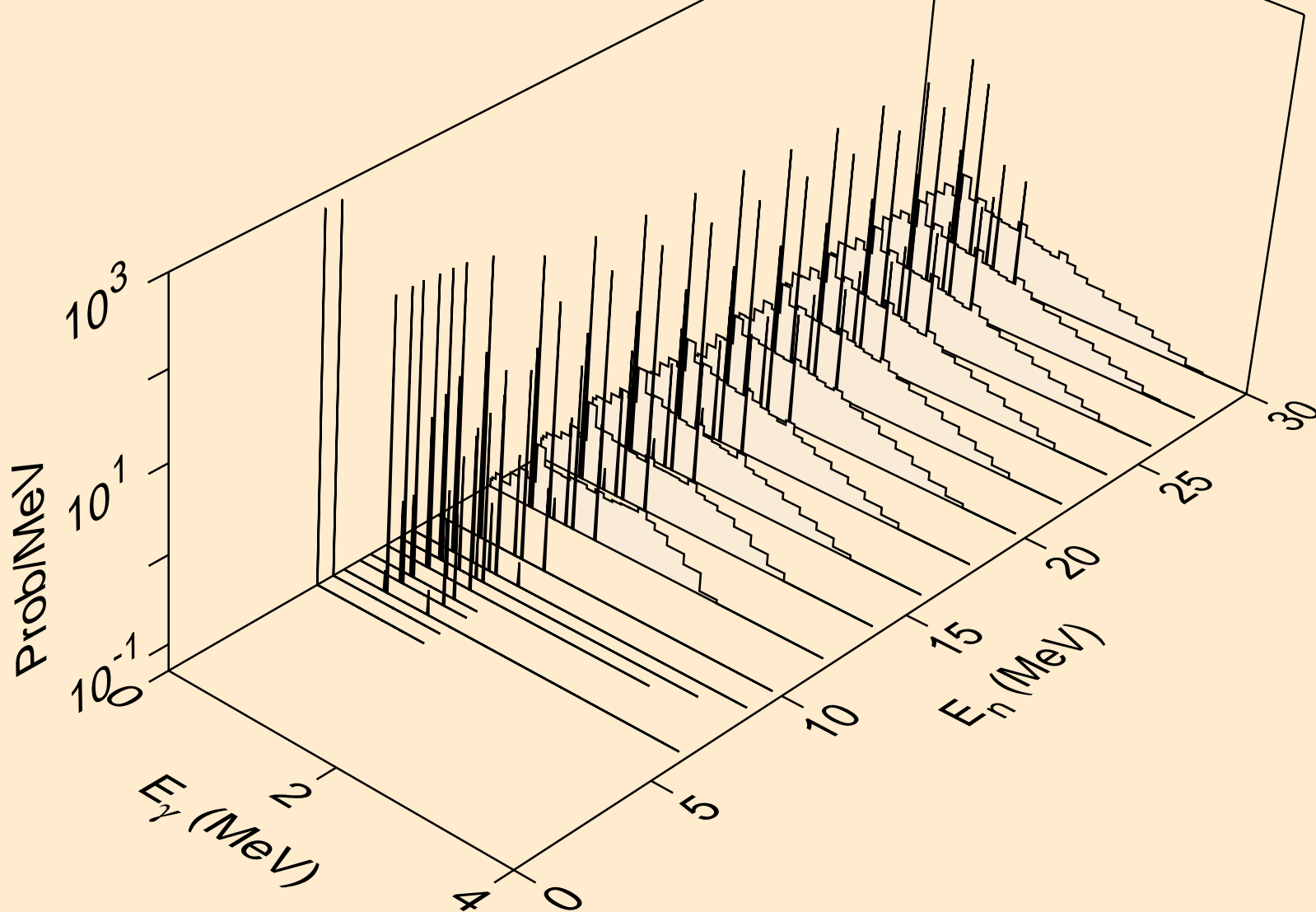


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)

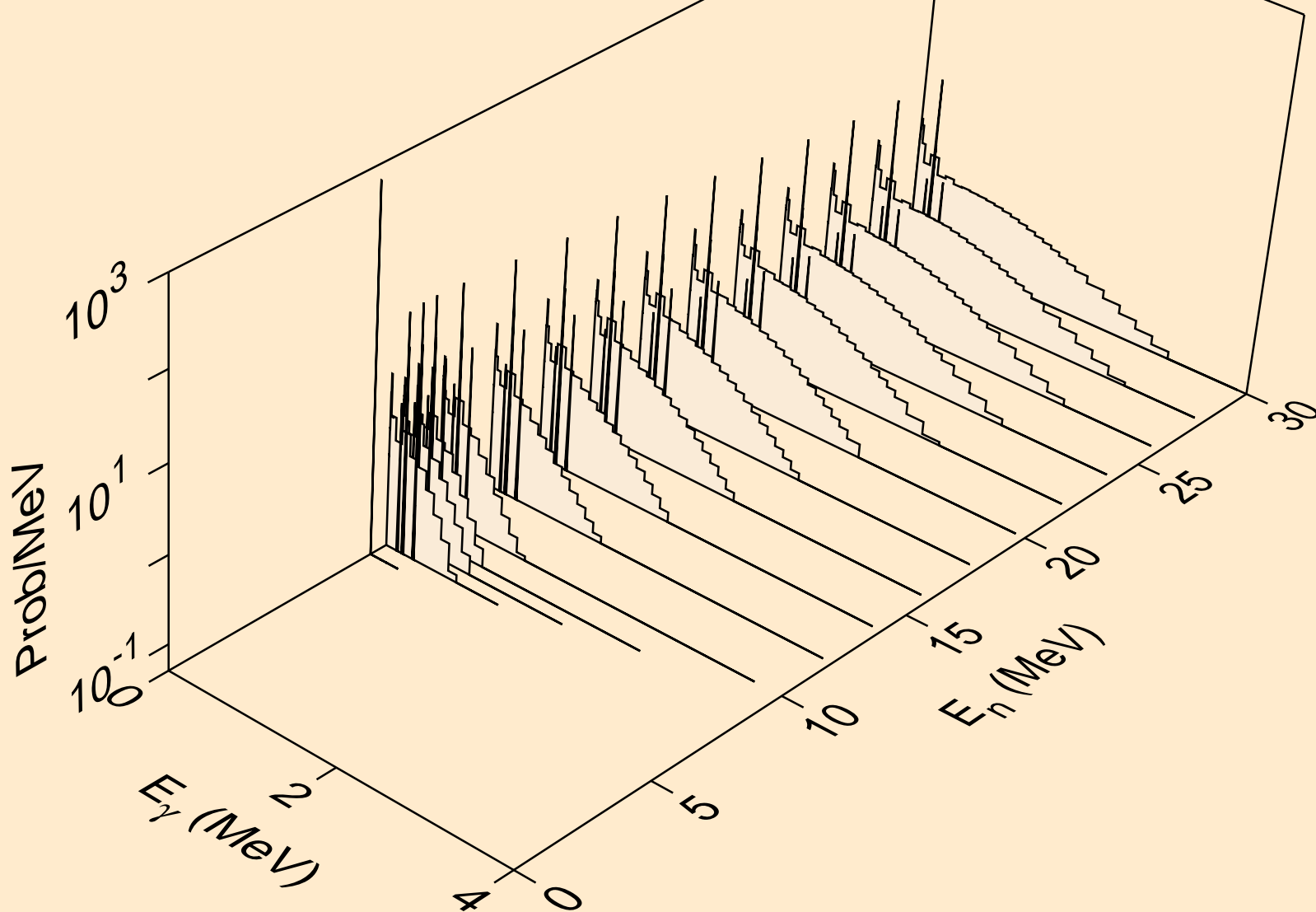




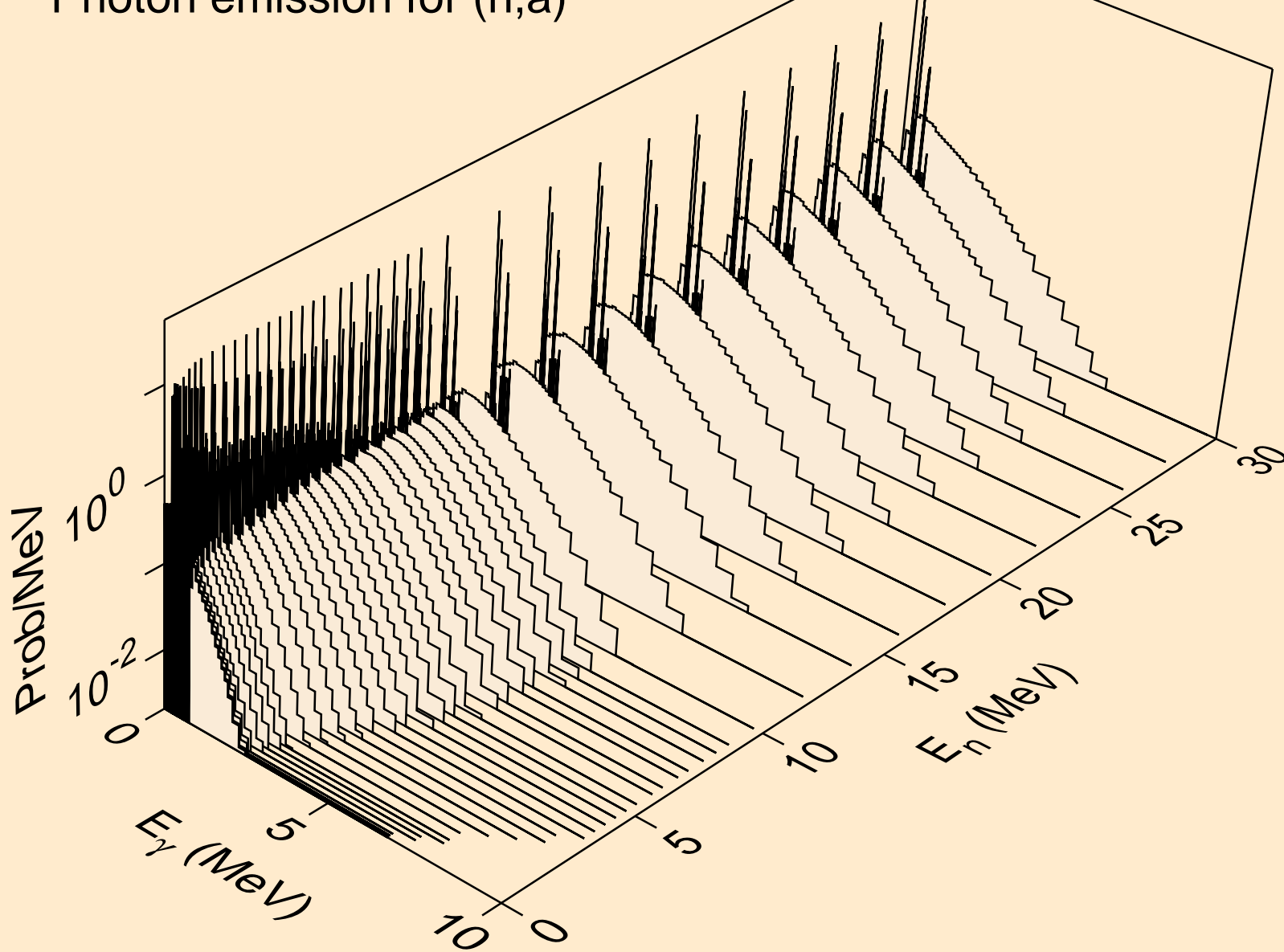
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)



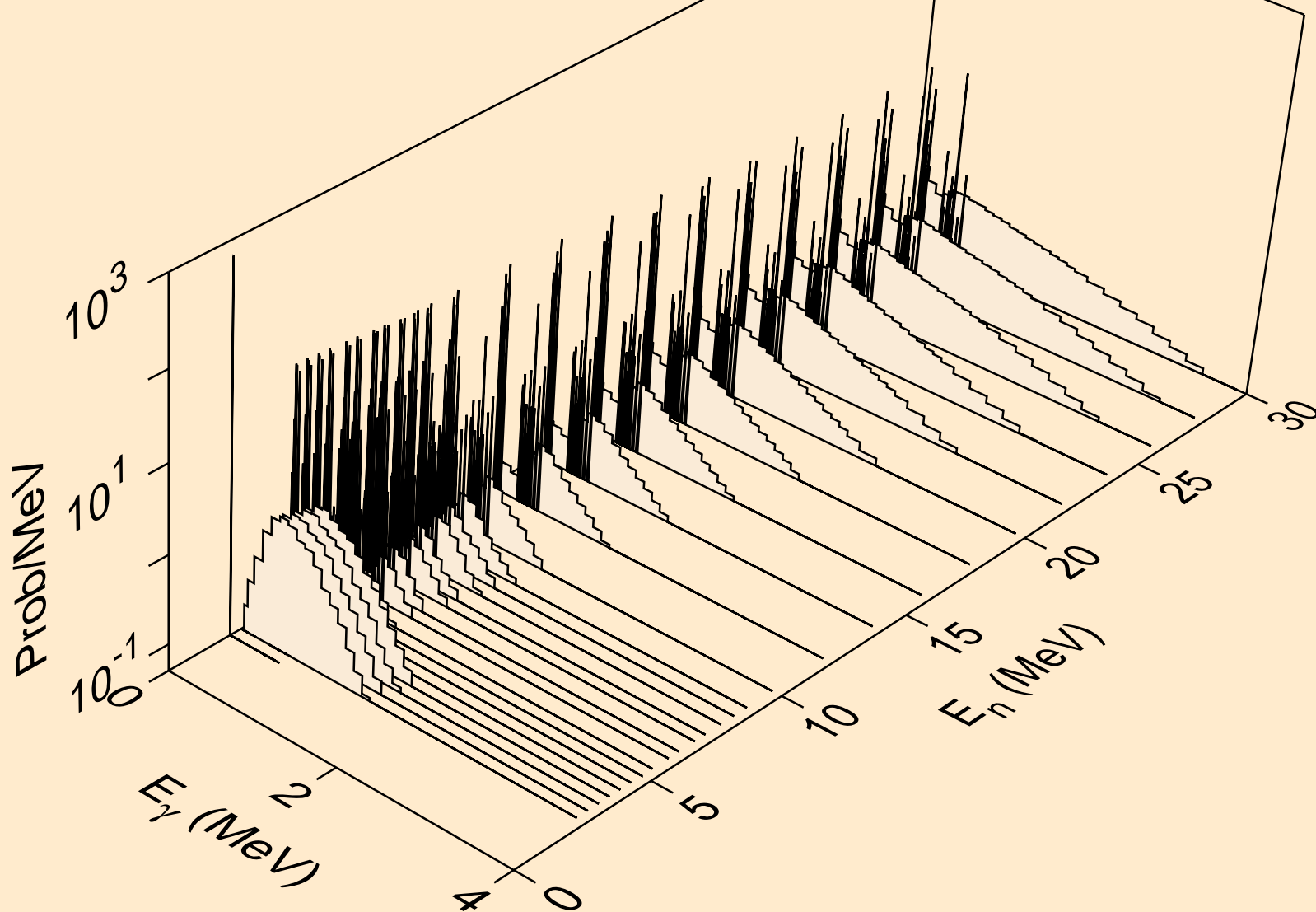
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)



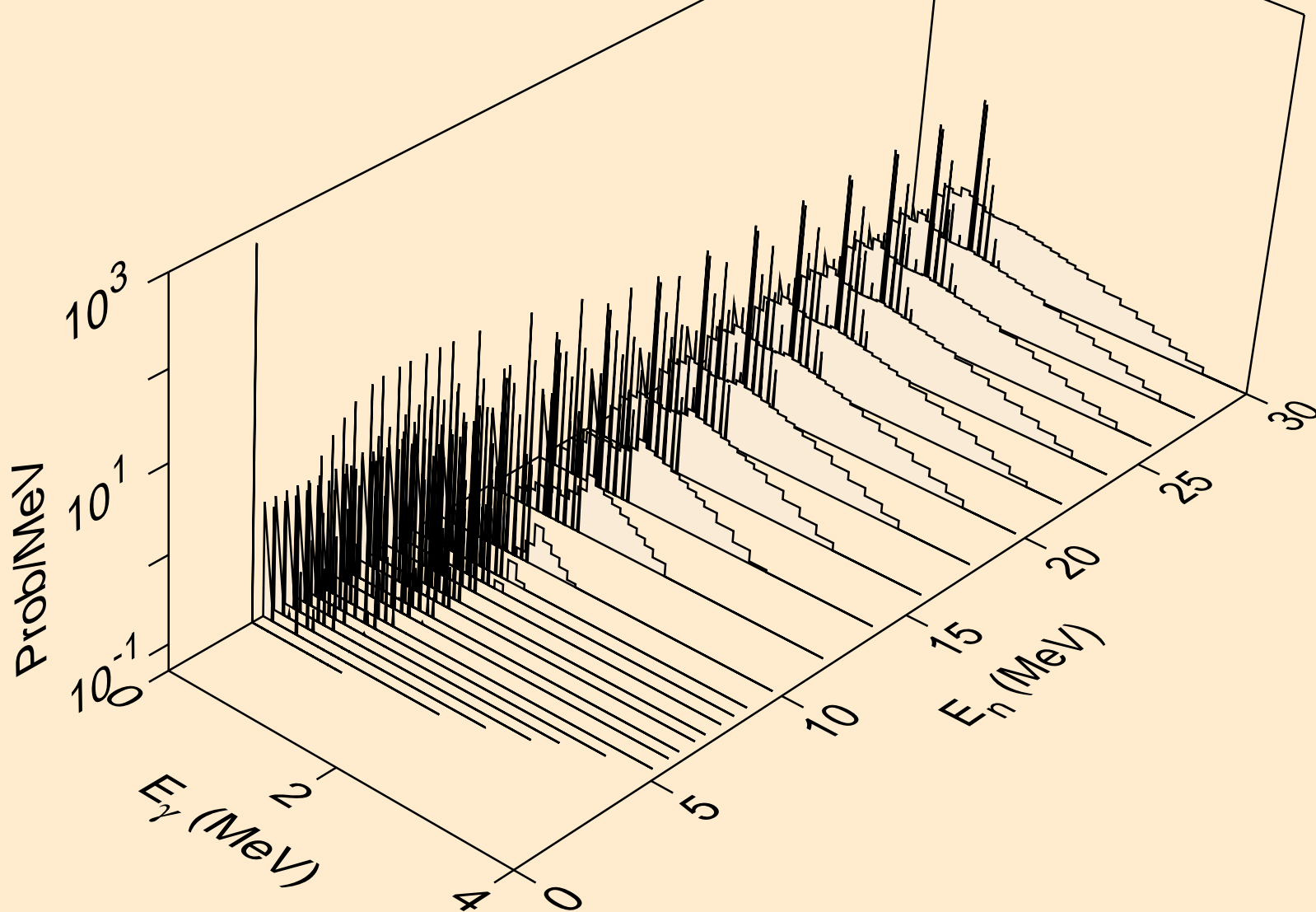
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)



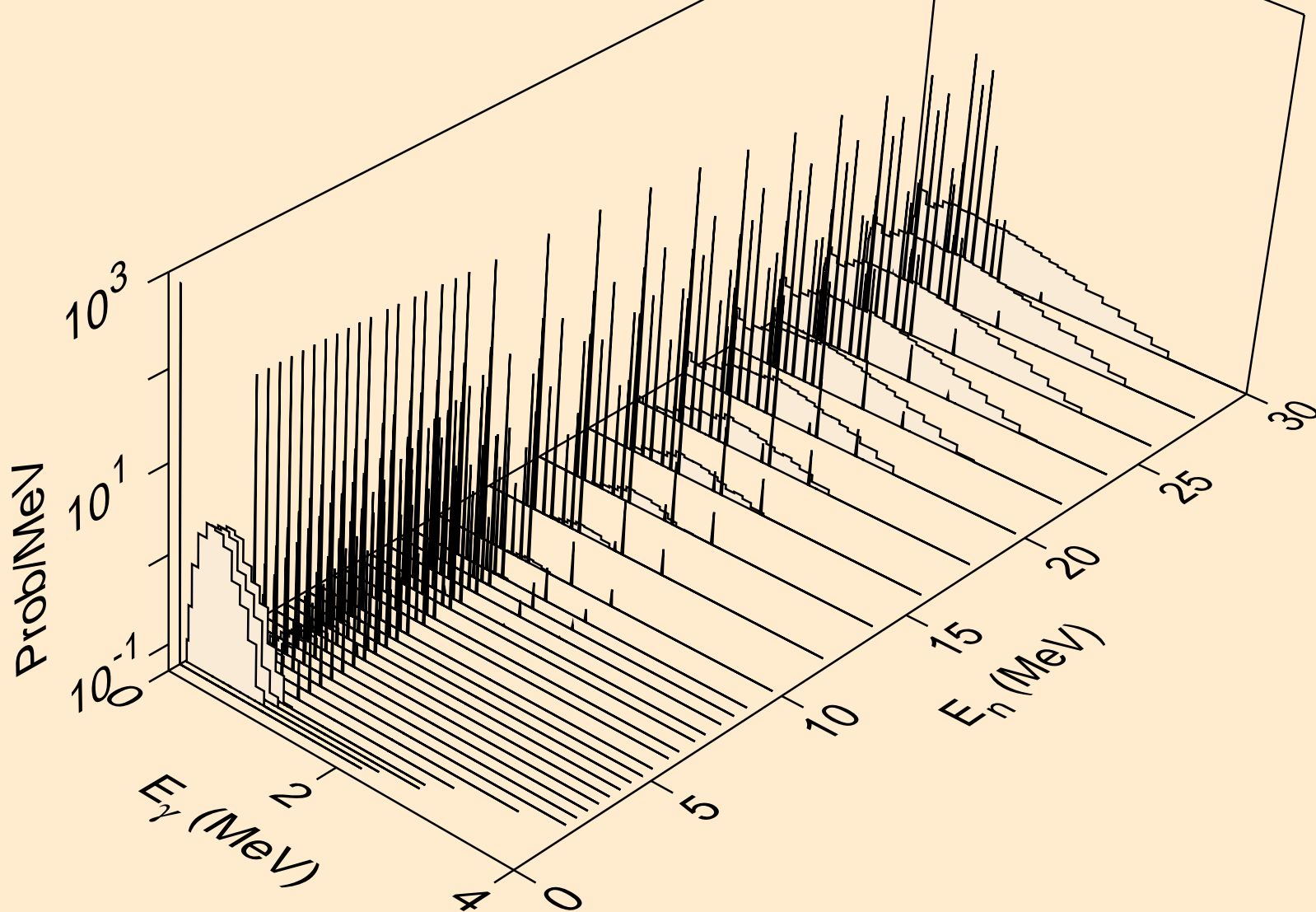
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Photon emission for (n,2a)



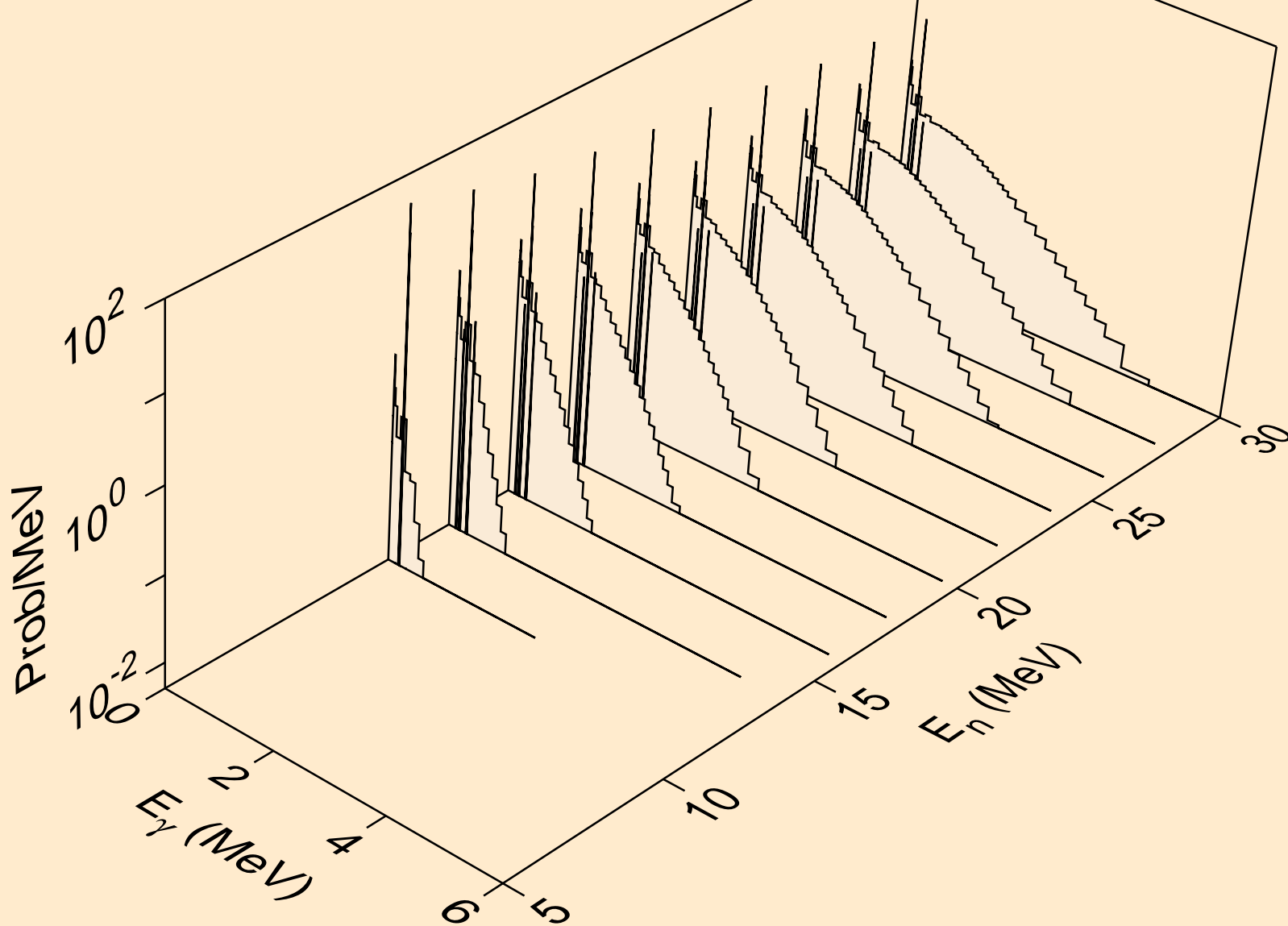
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Photon emission for (n,2p)



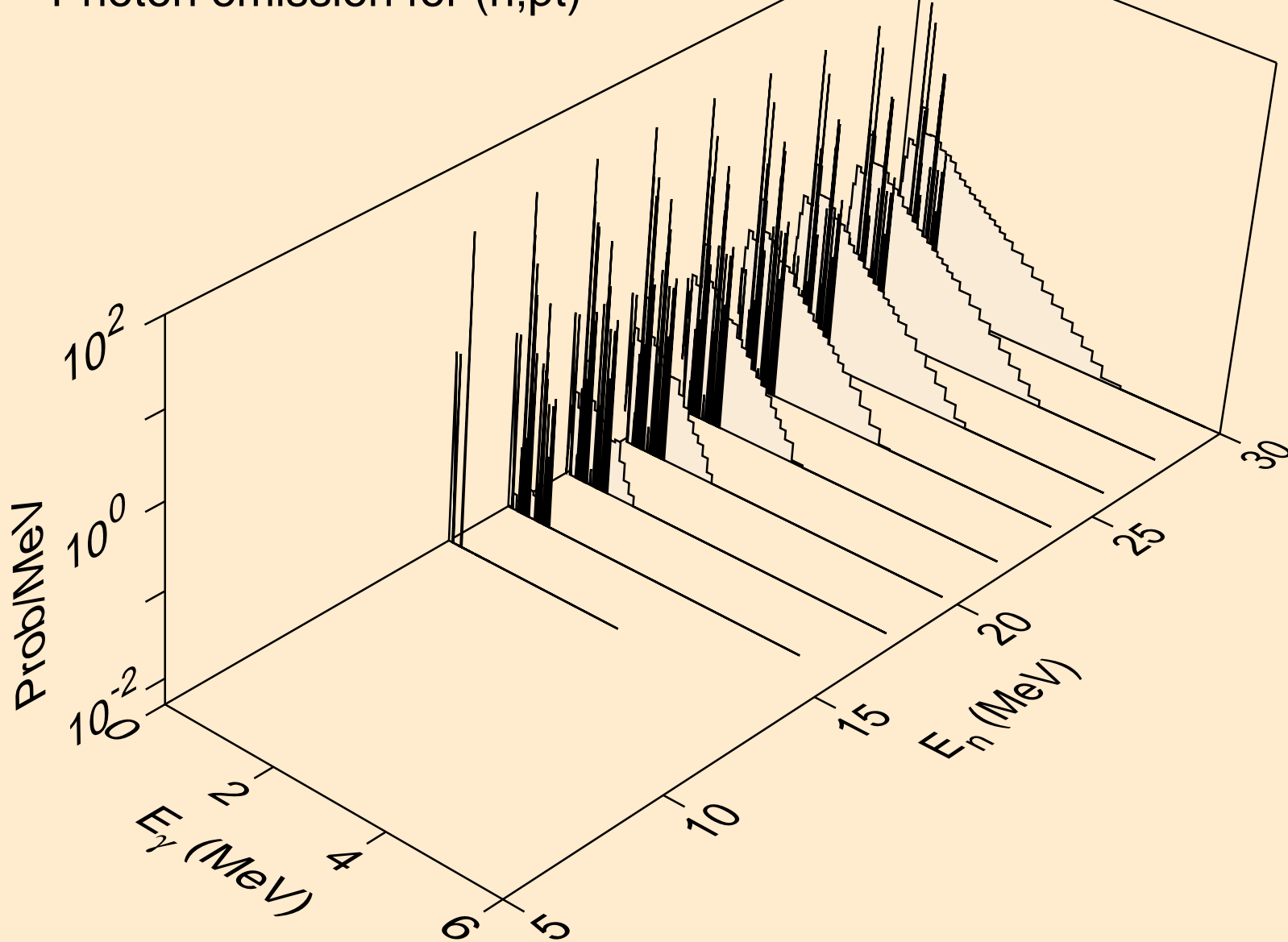
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p $\alpha$ )



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)

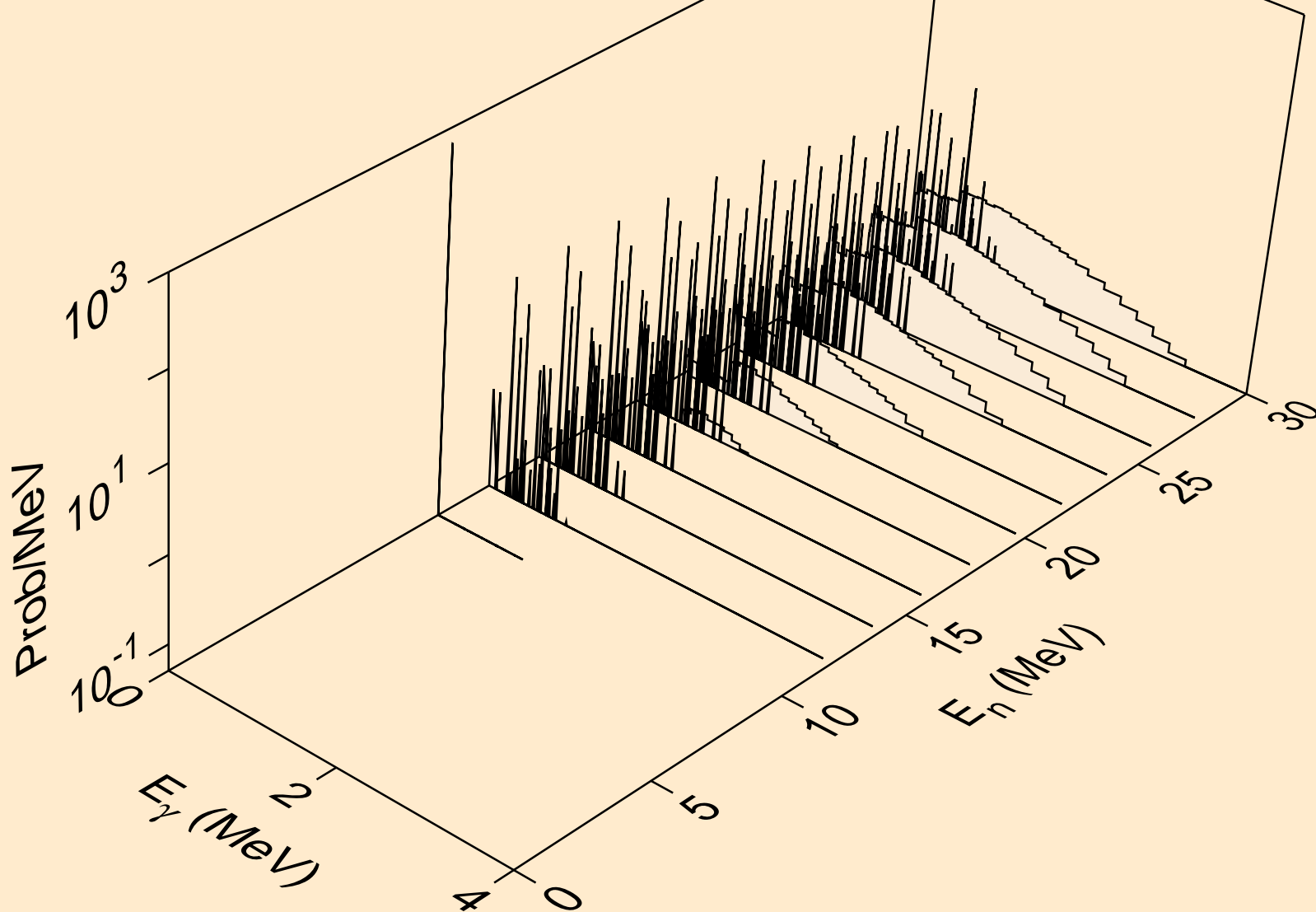


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Photon emission for (n,pt)

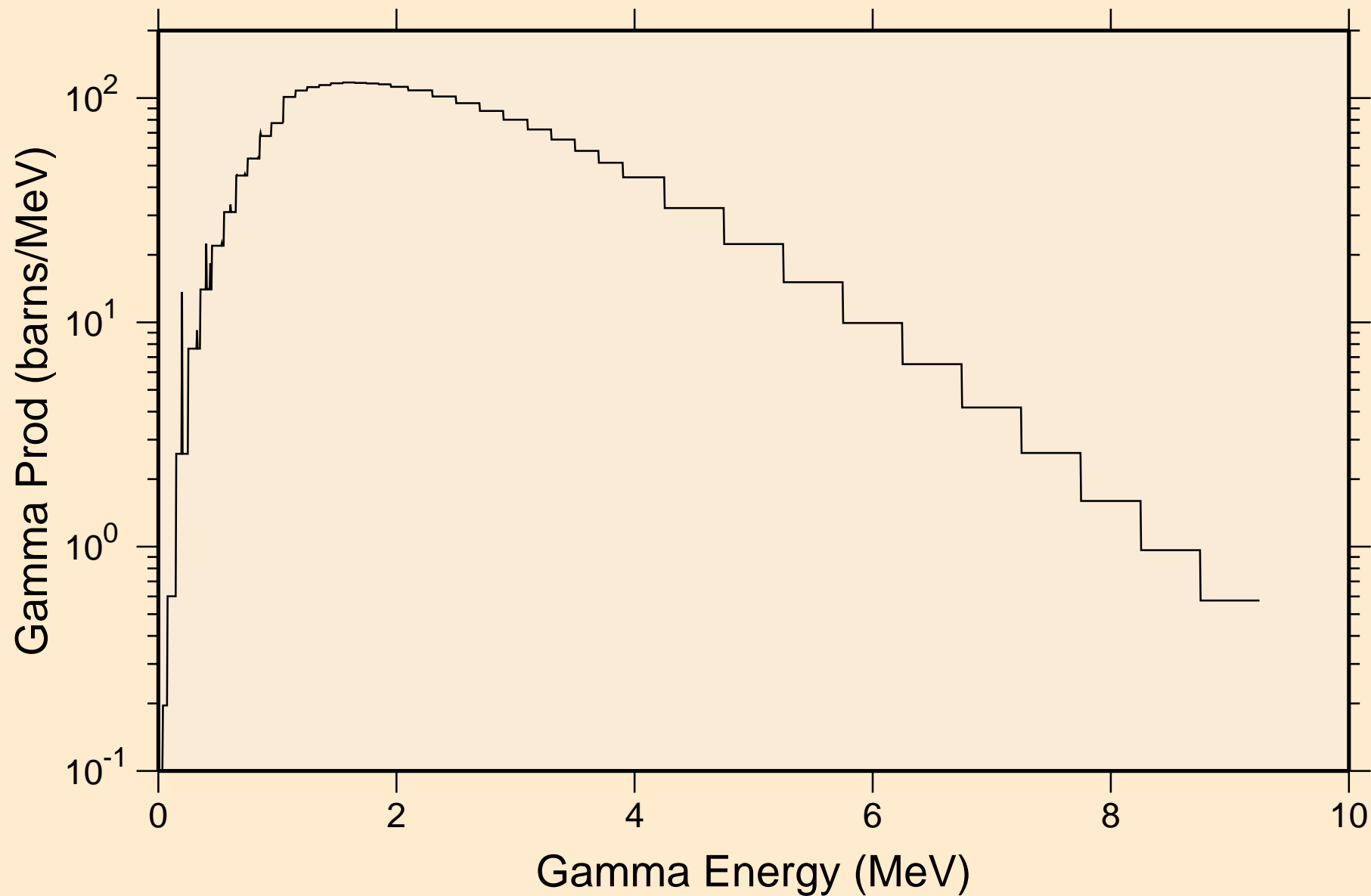




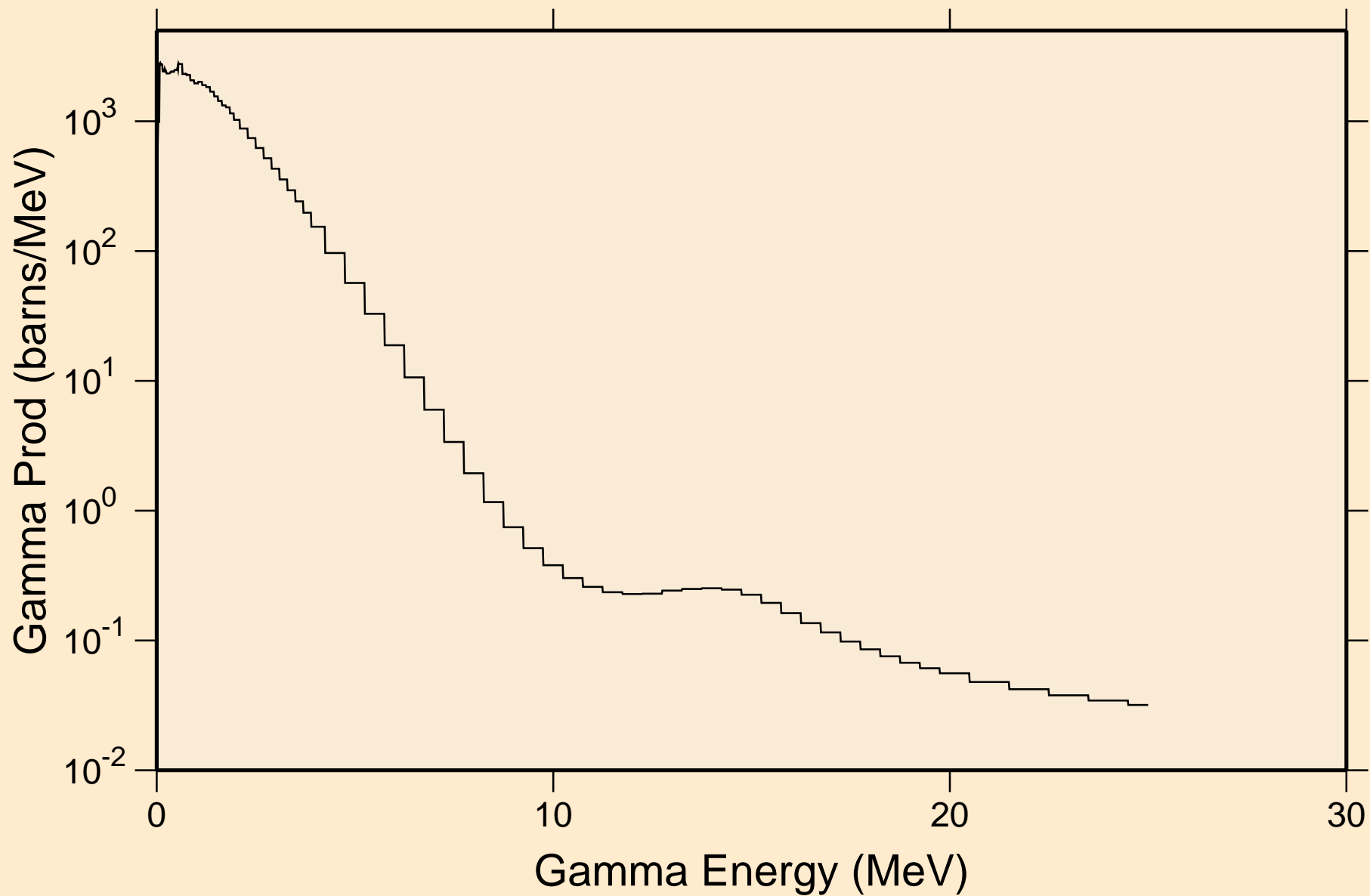
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

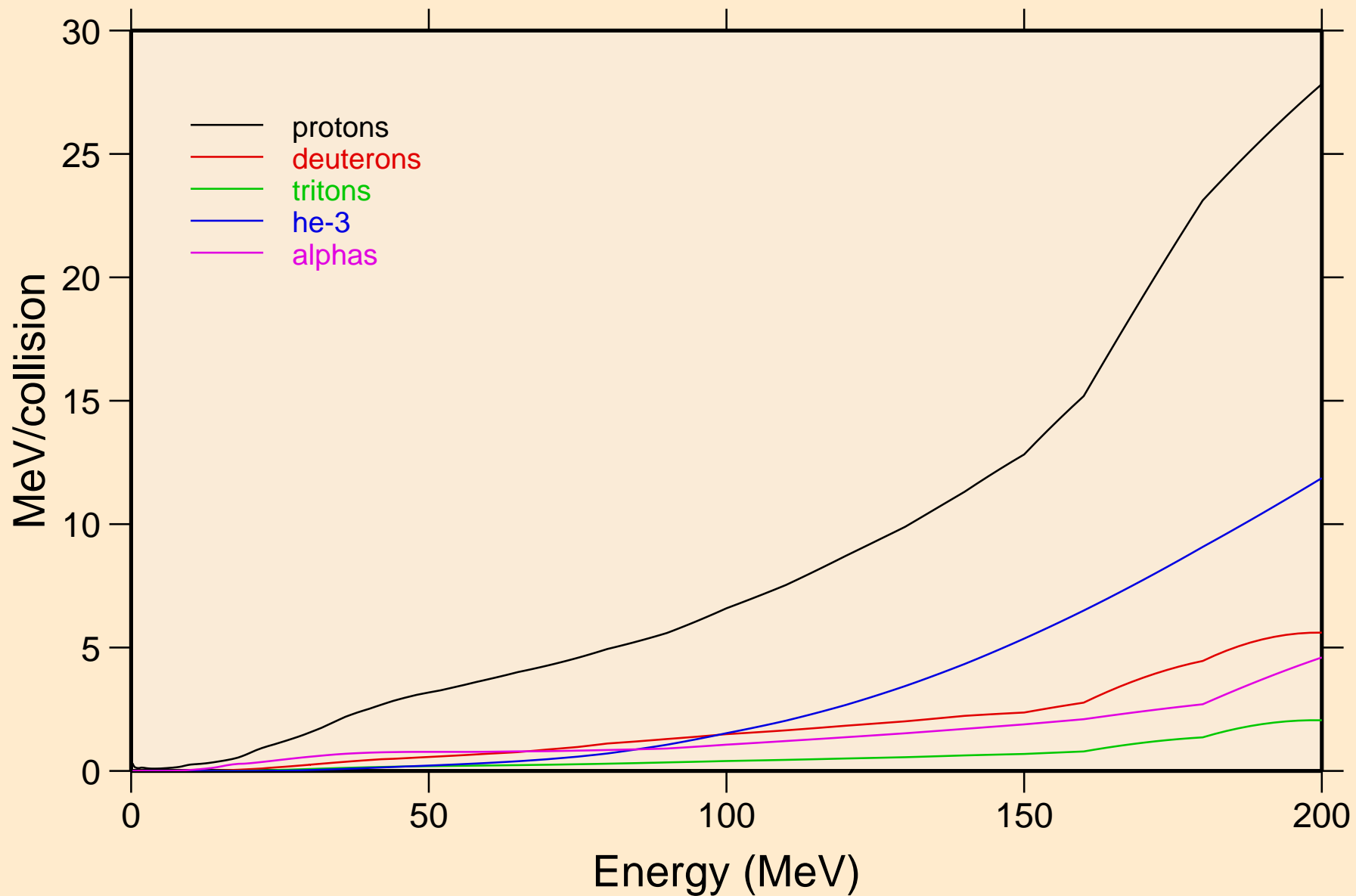


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

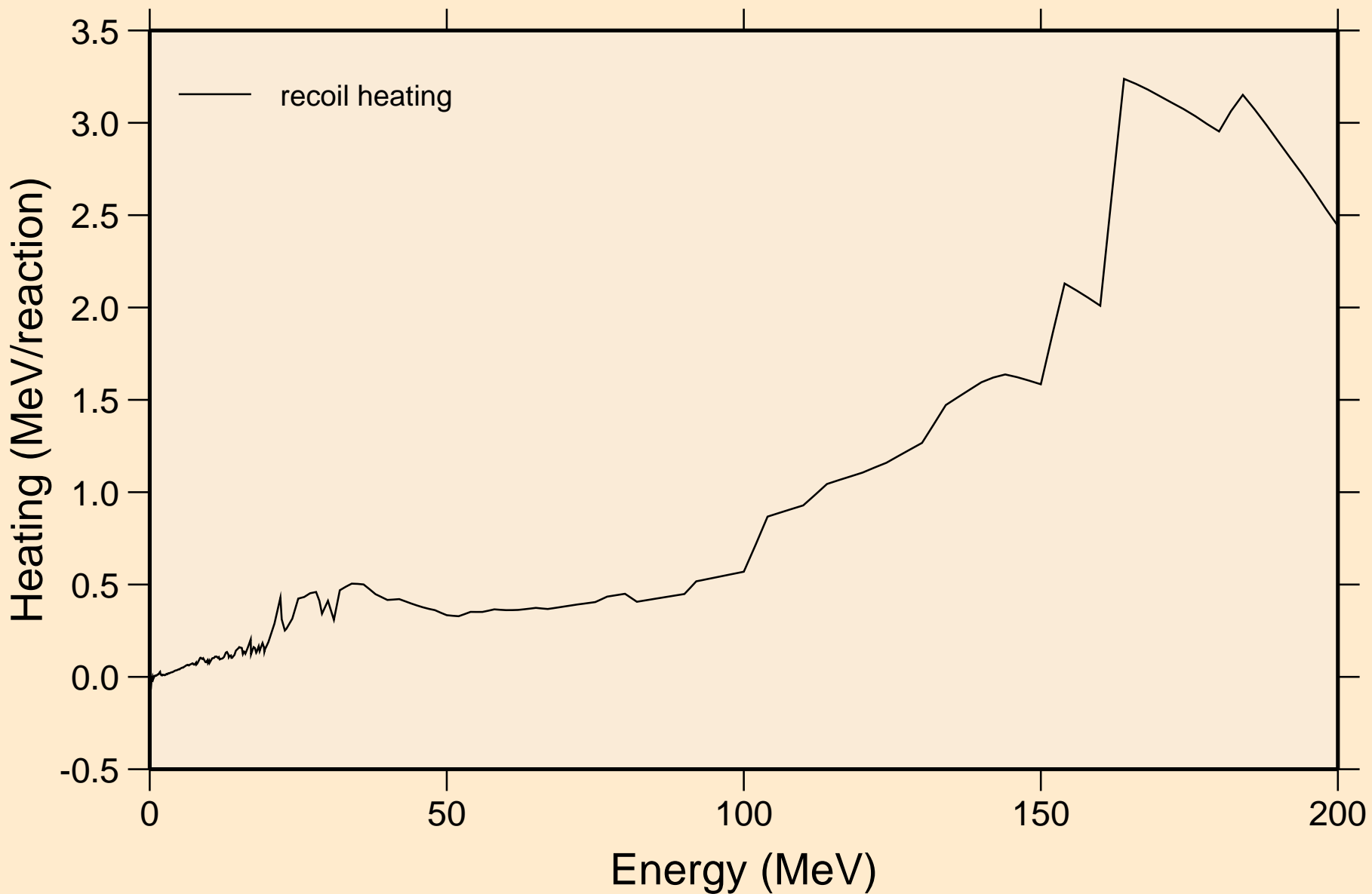


# PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

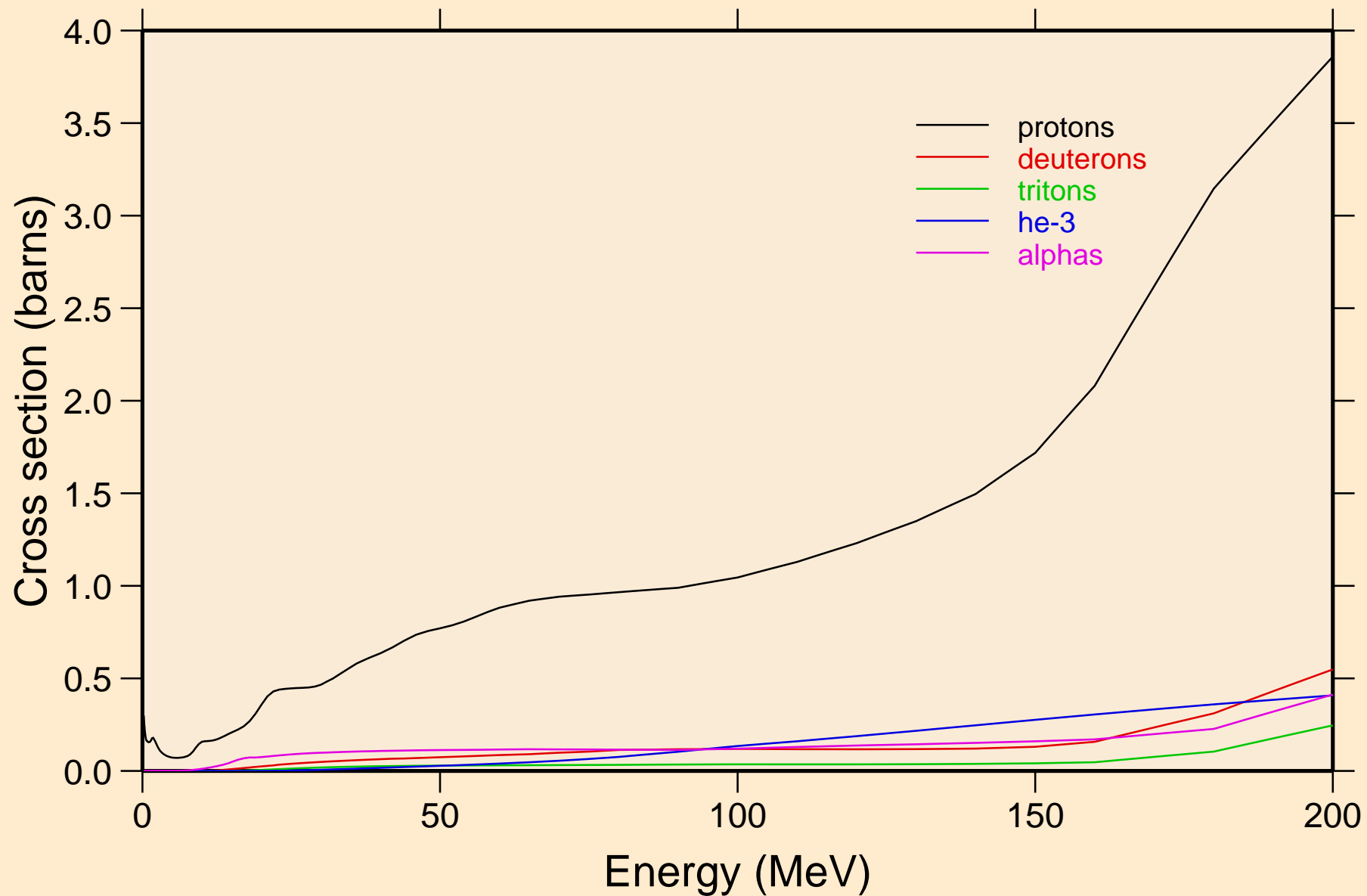
## Particle heating contributions



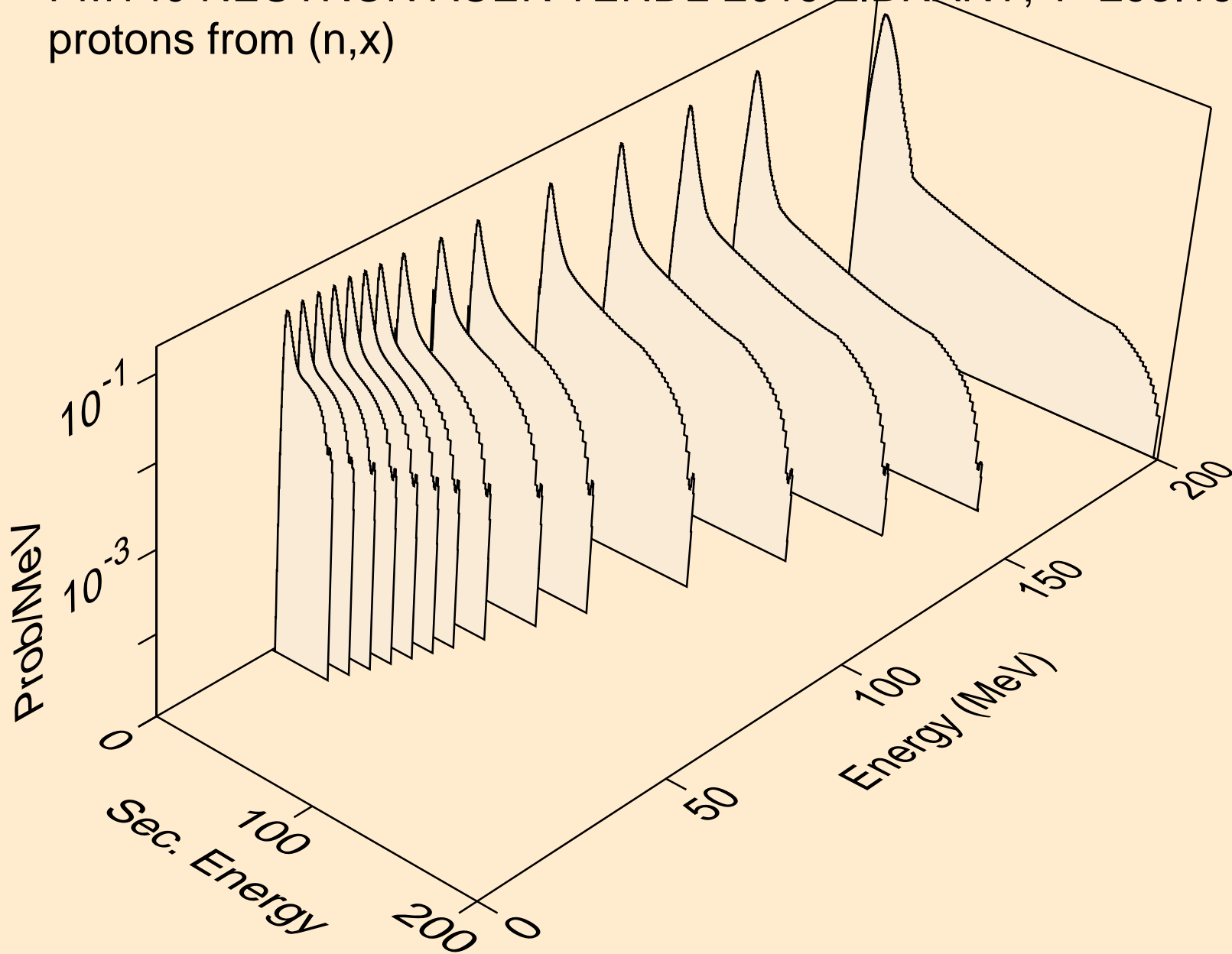
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



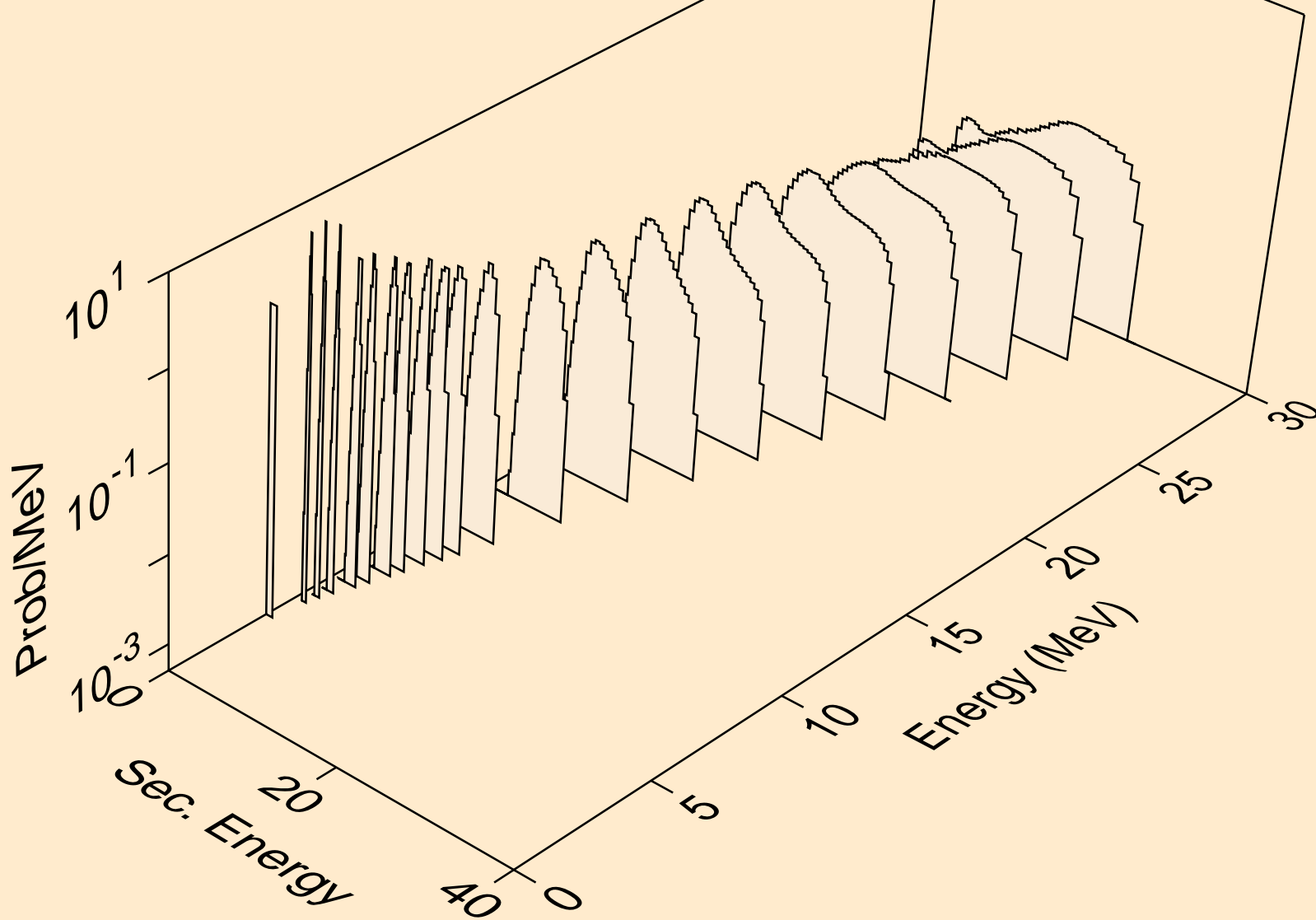
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Particle production cross sections



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)

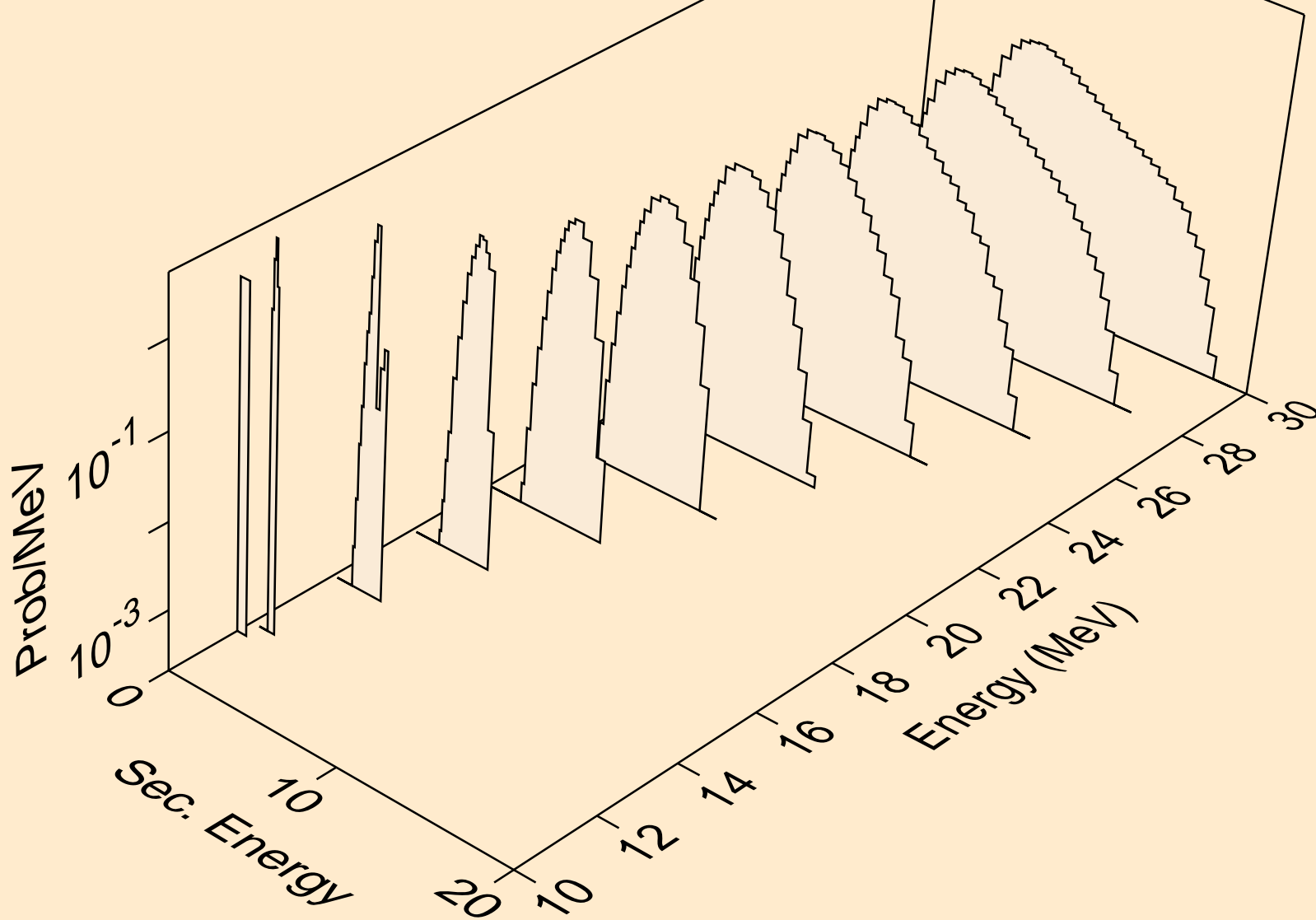


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protons from (n,n\*)p

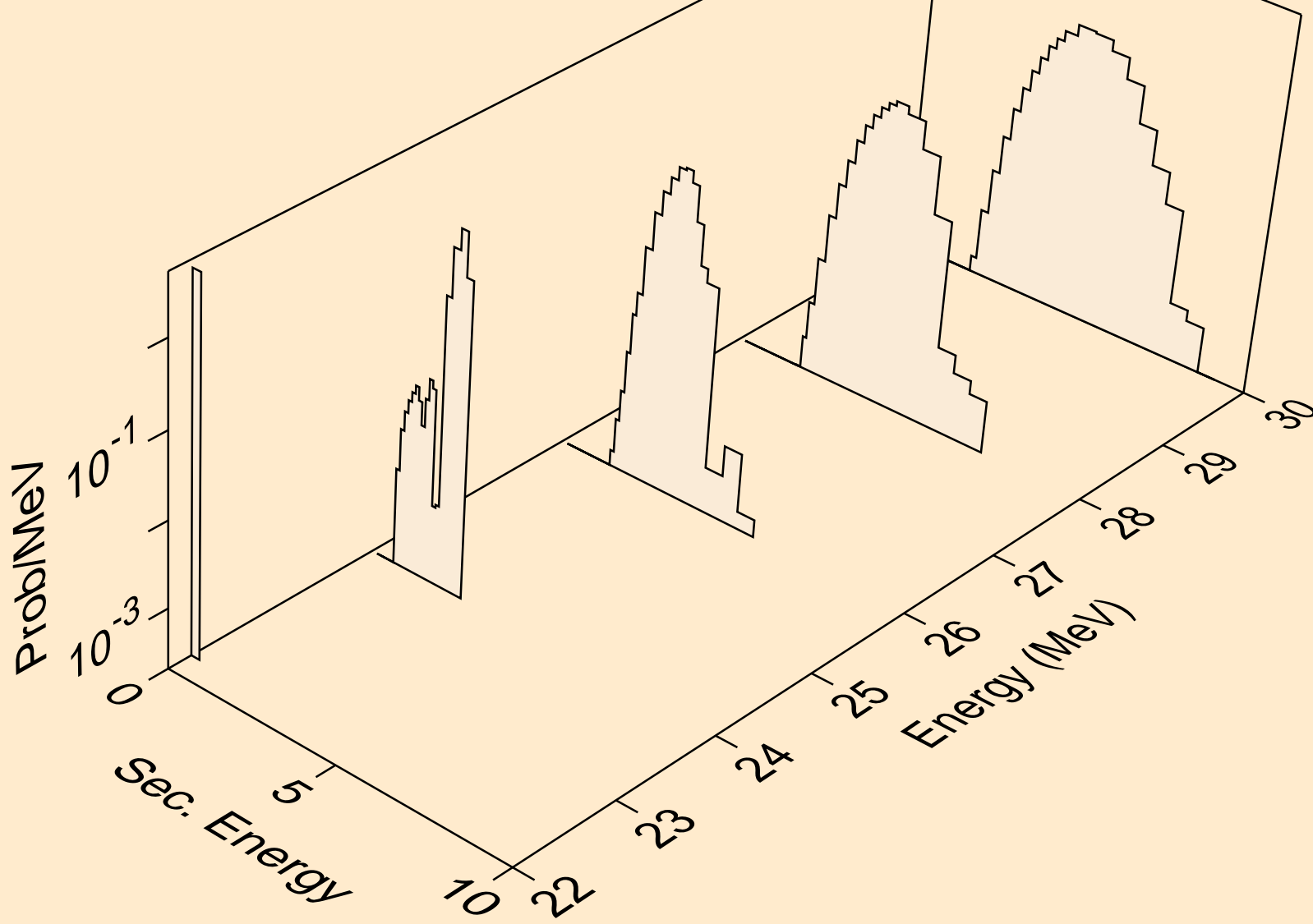




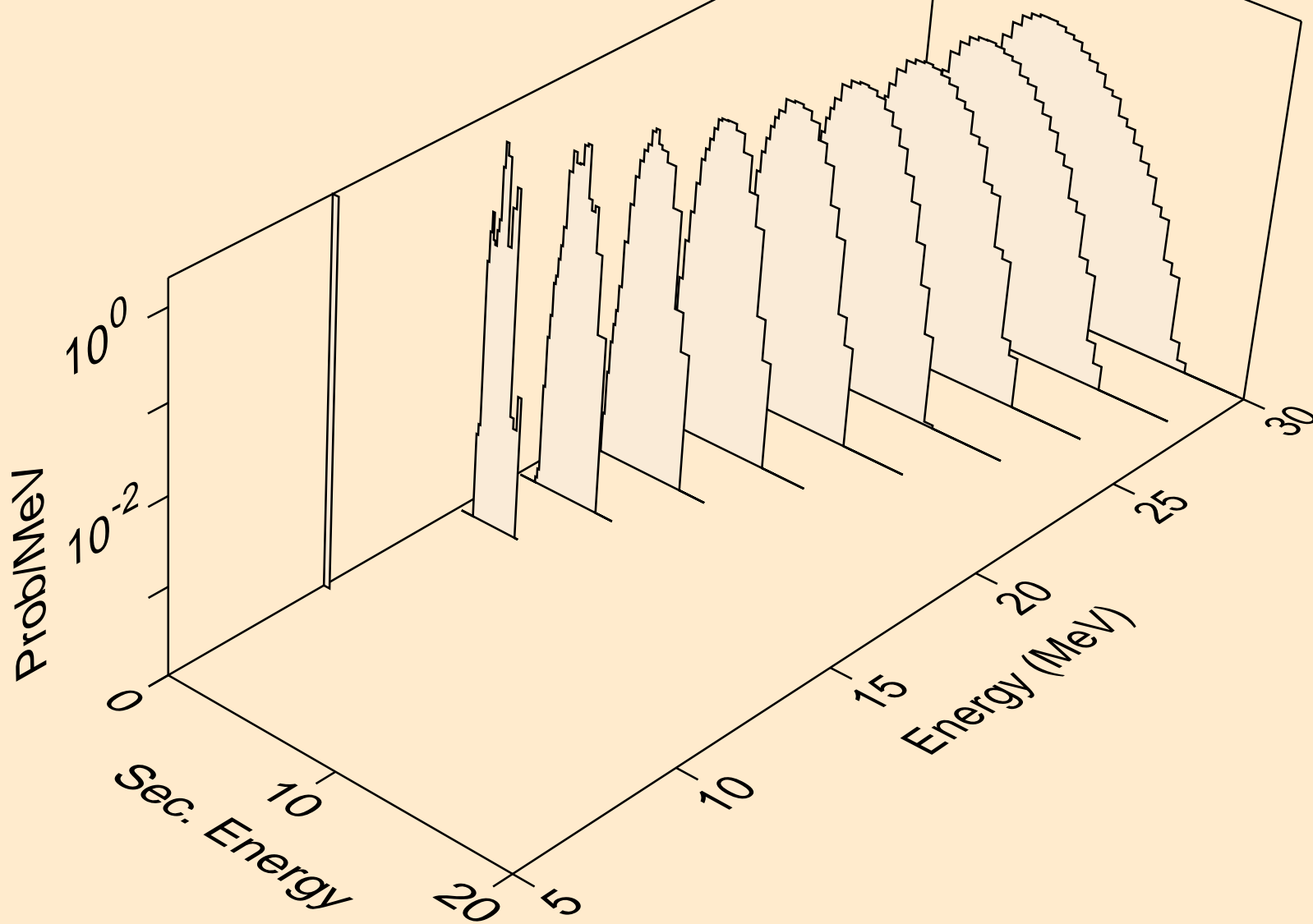
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)



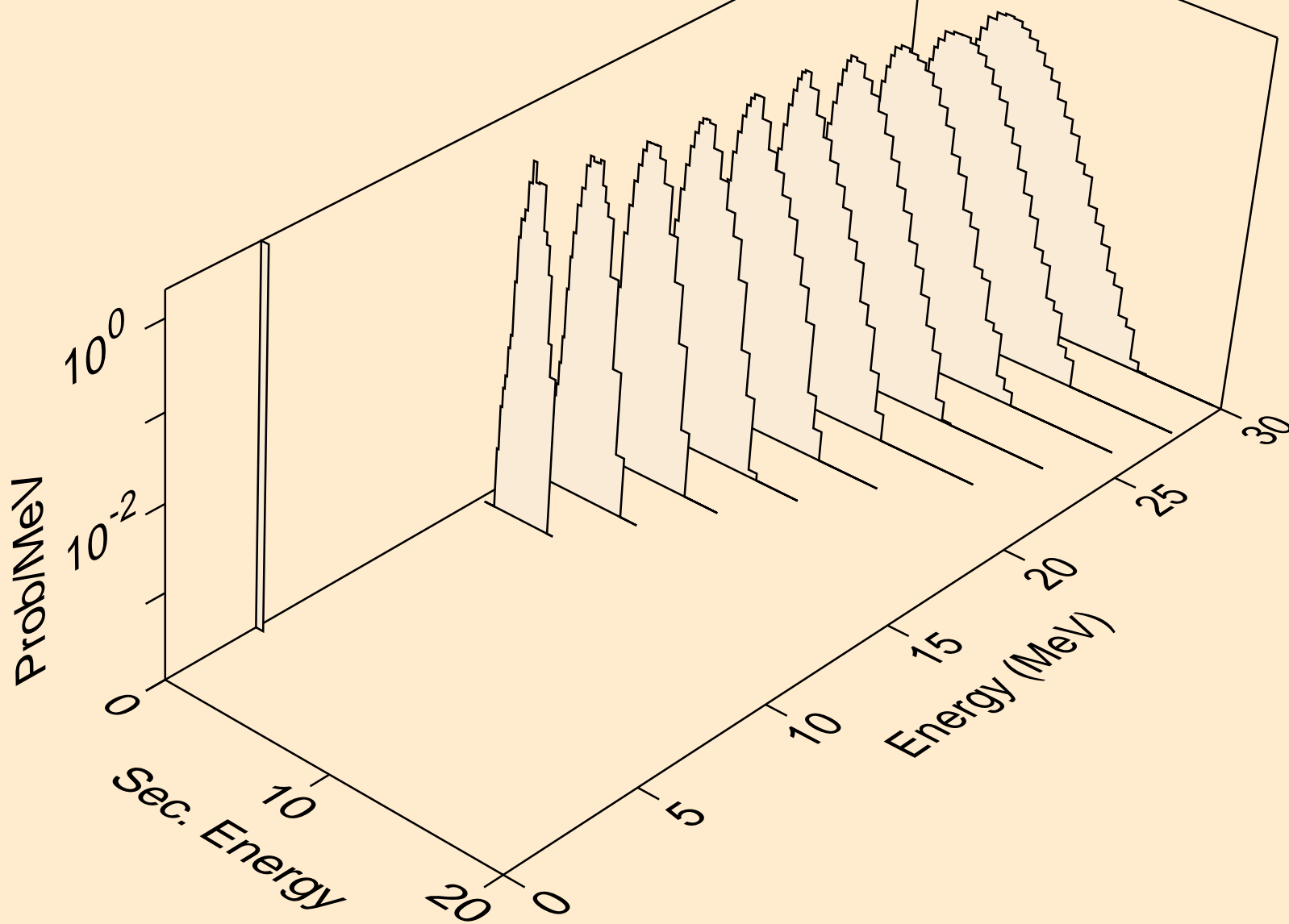
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,3np)



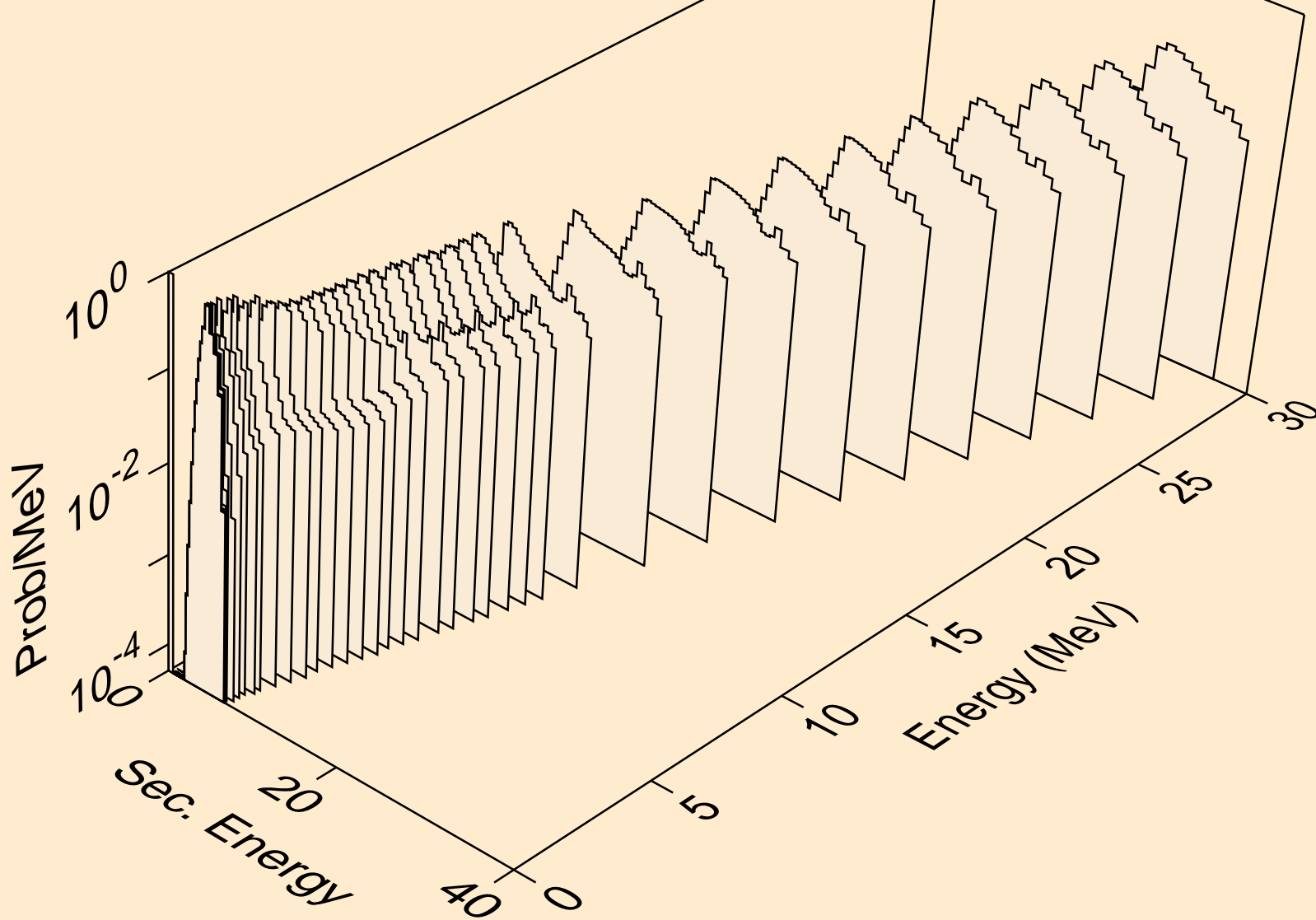
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protons from (n,2np)



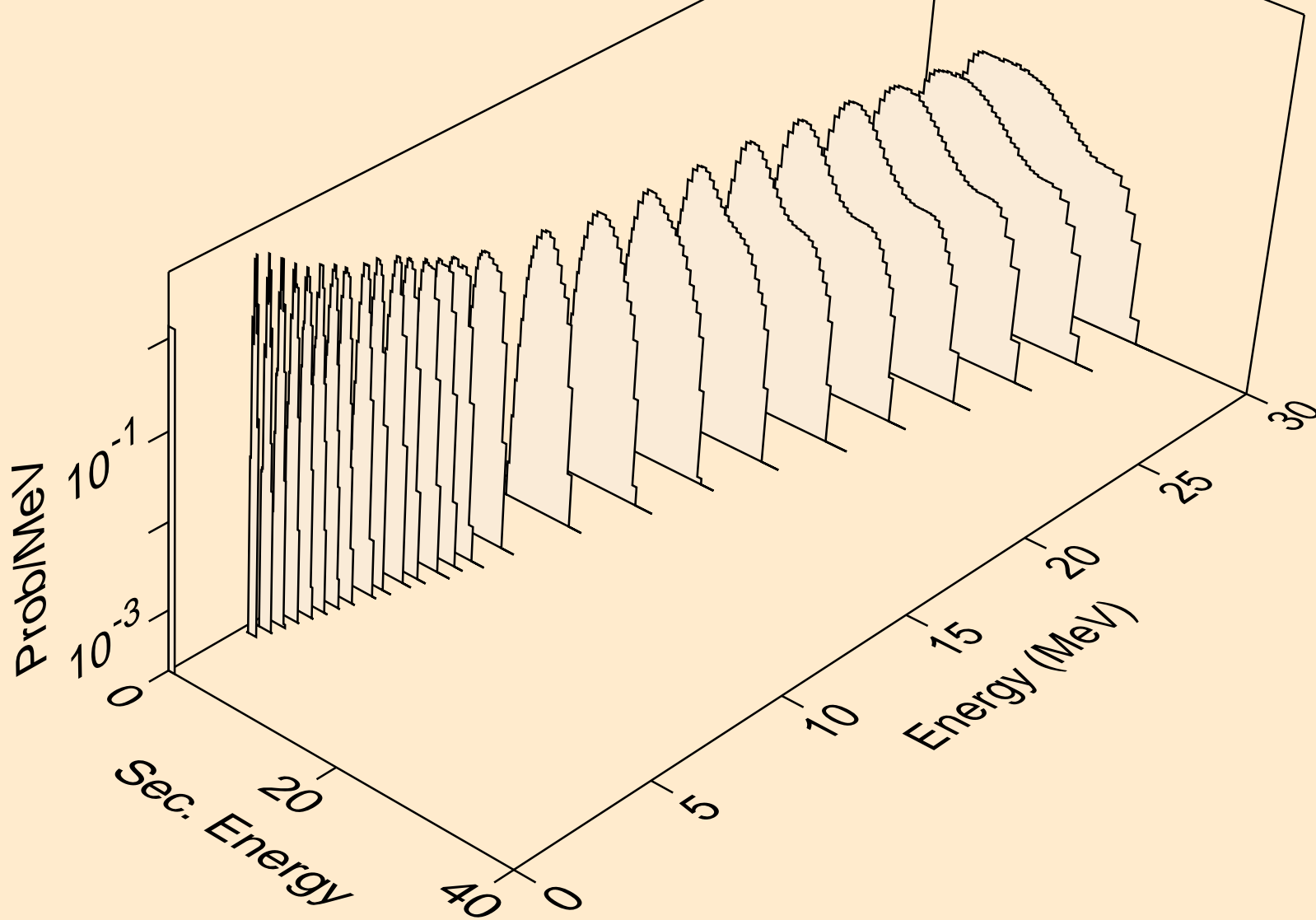
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protons from (n,npa)



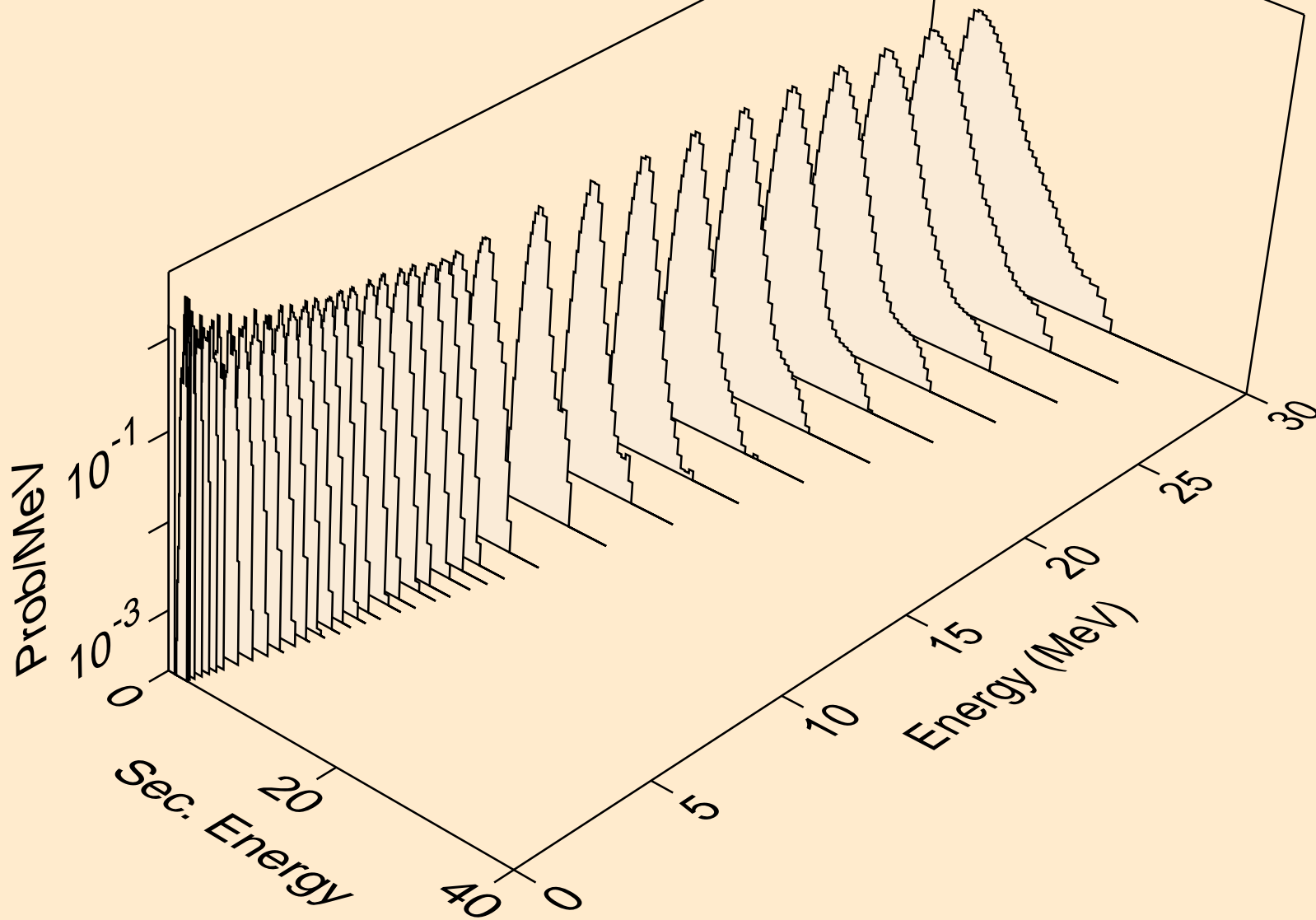
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protons from (n,p)



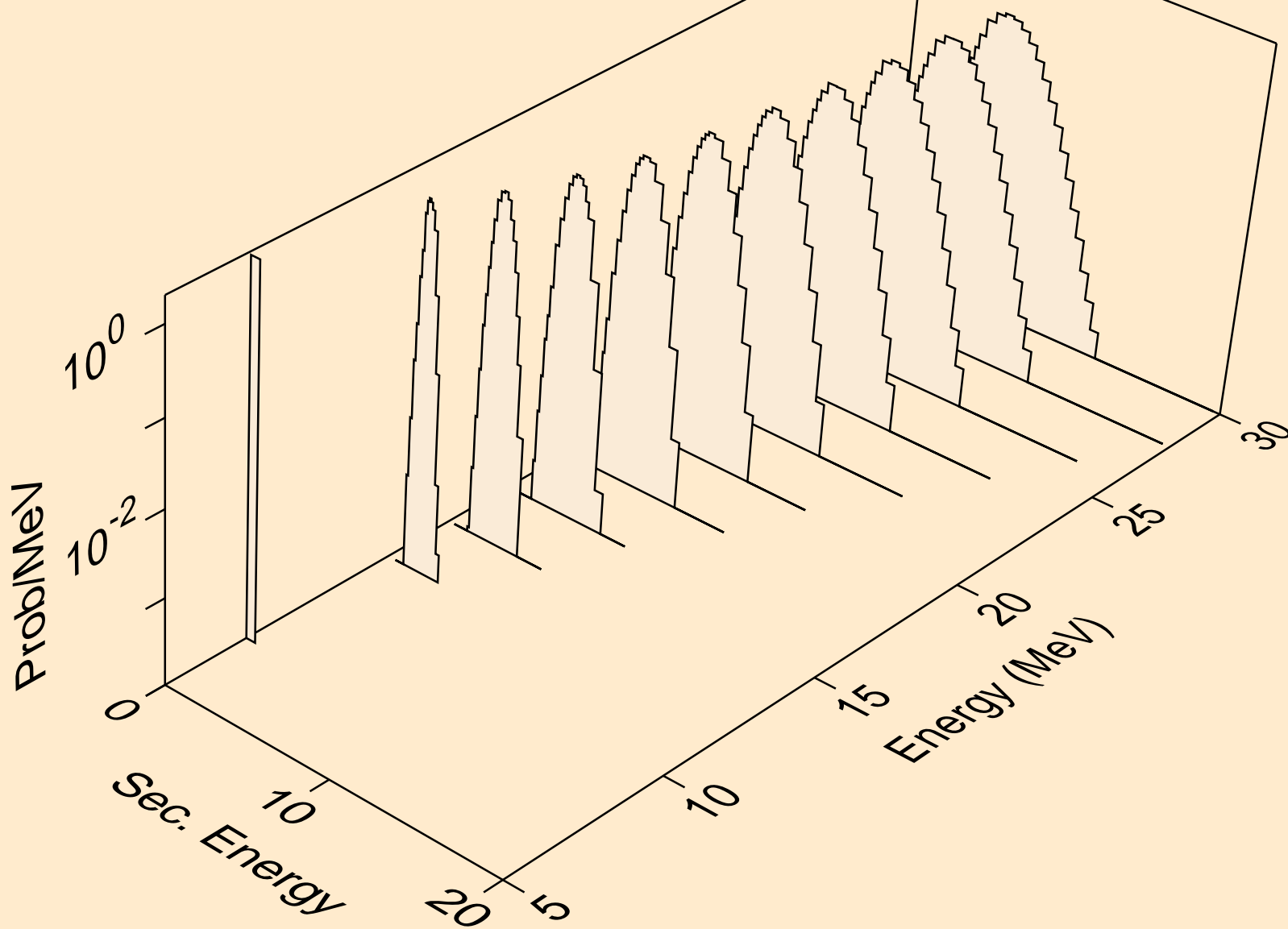
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protons from (n,2p)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)

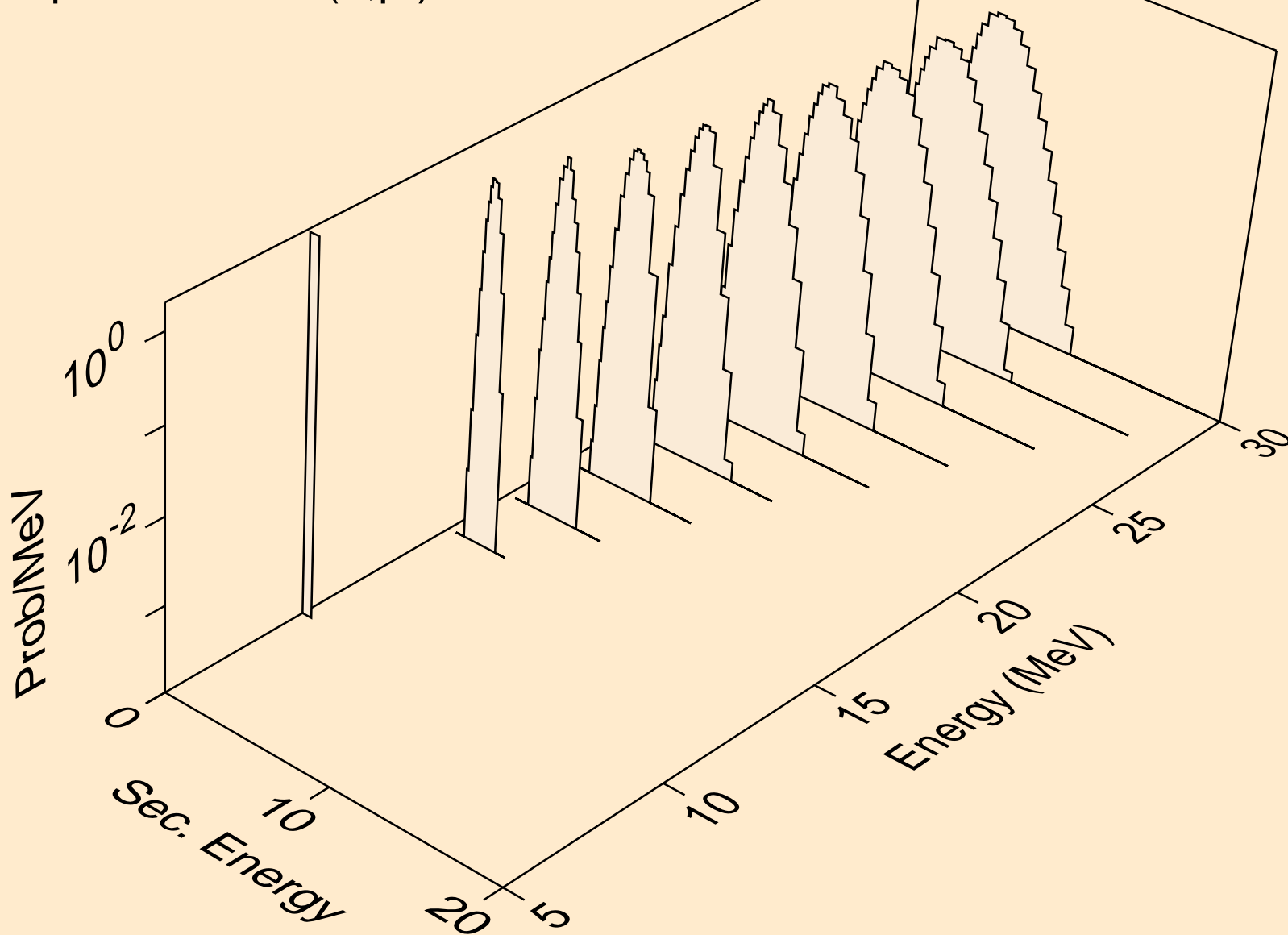


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protons from (n,pd)

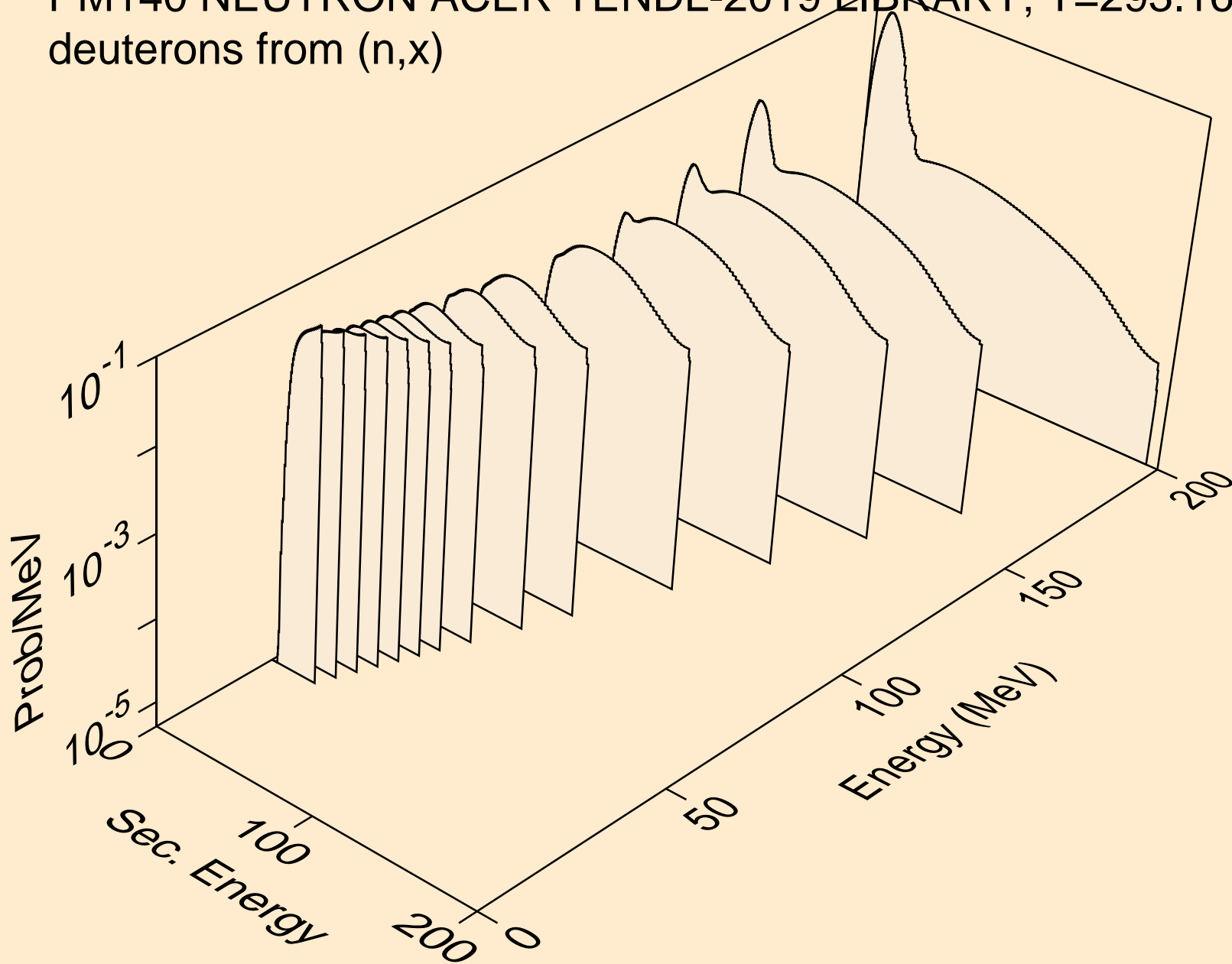




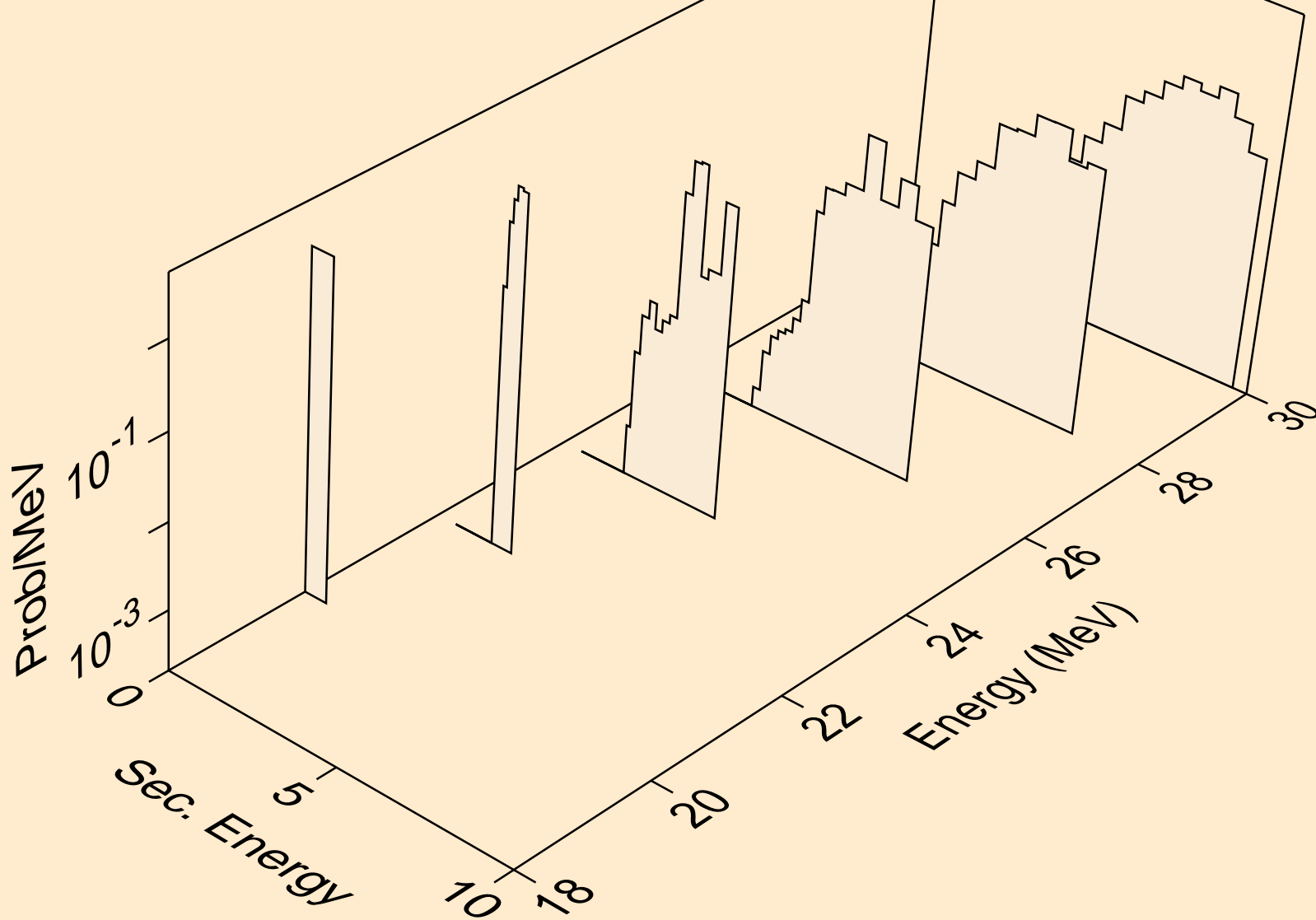
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protons from (n,pt)



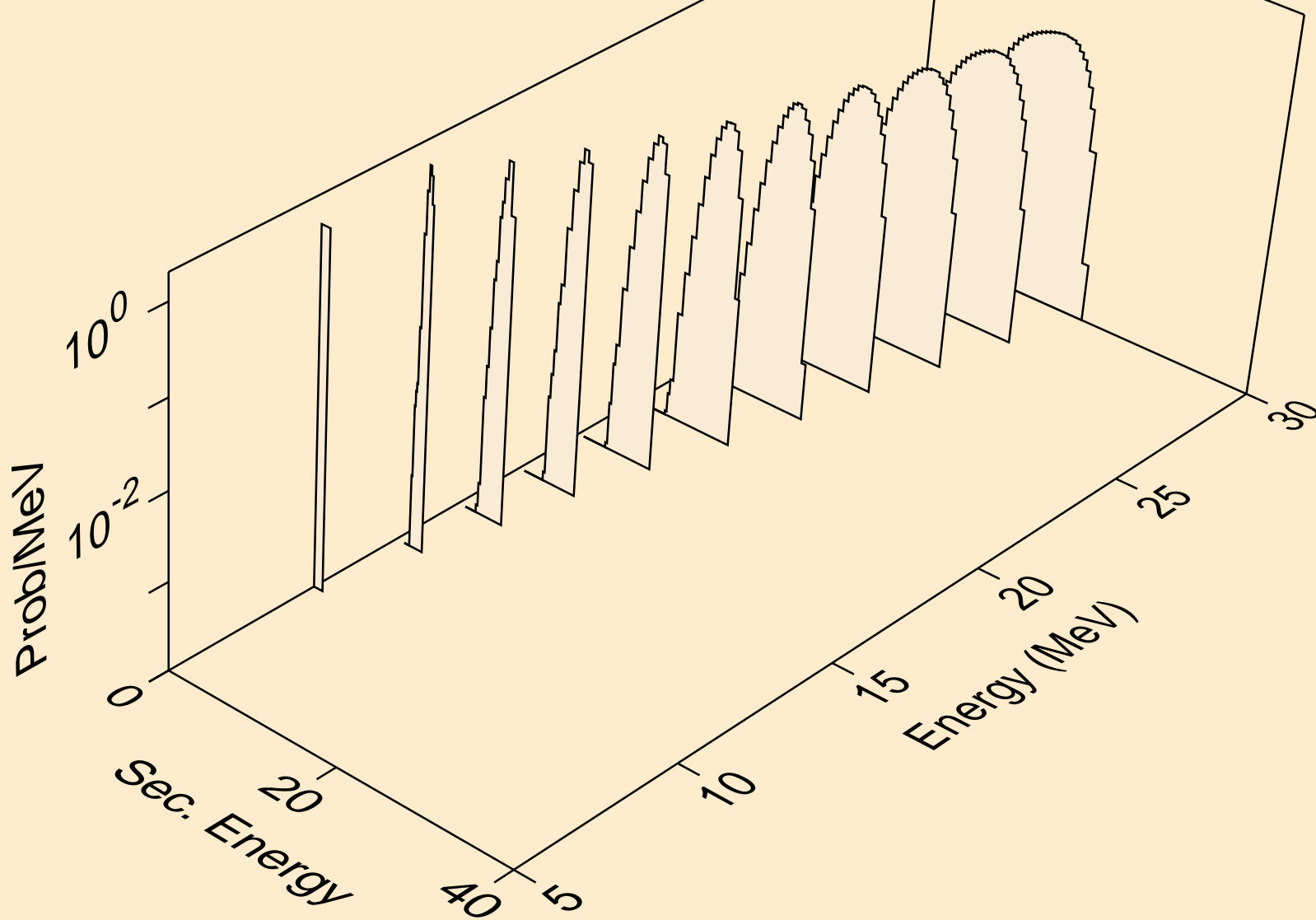
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deuterons from (n,x)



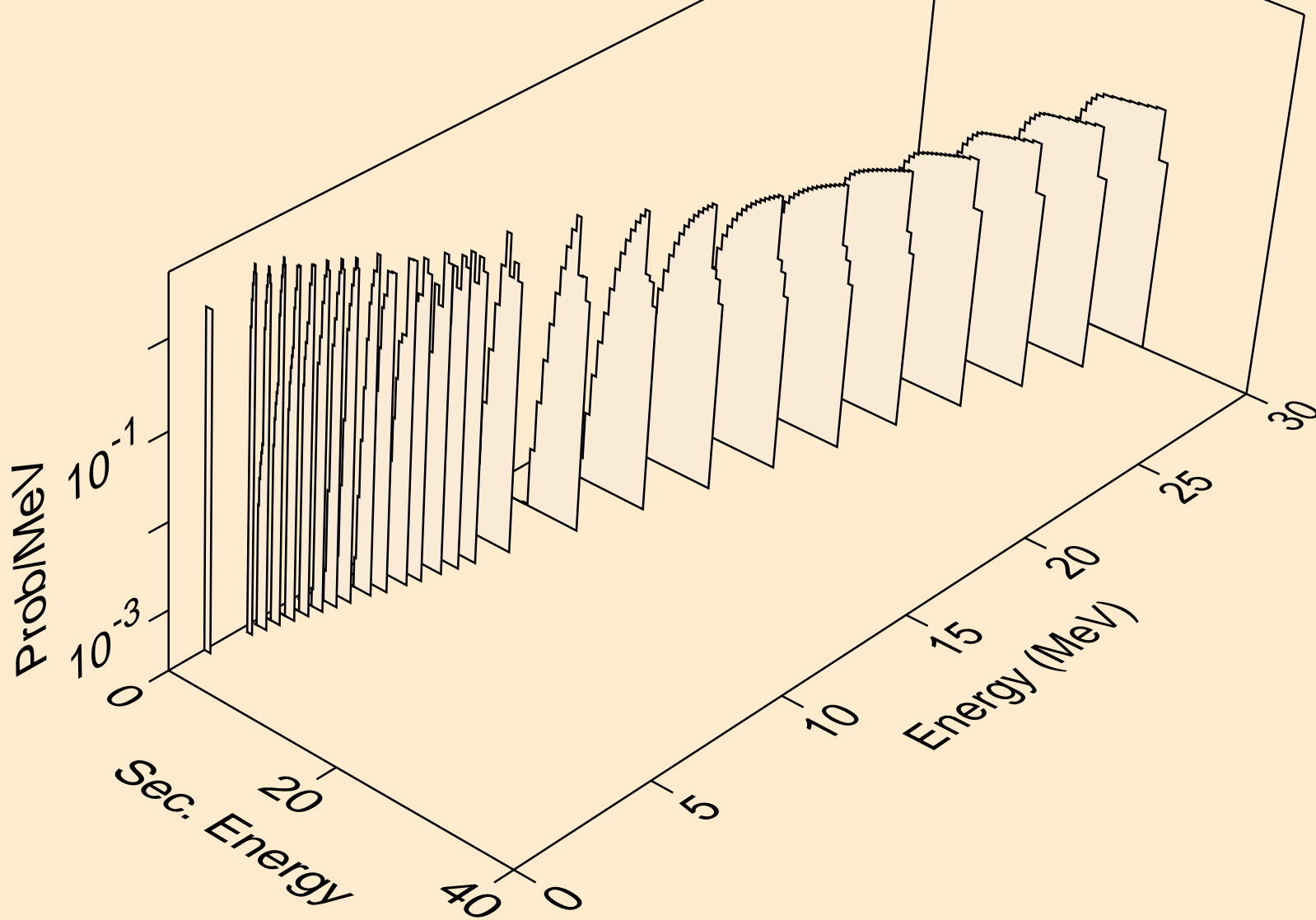
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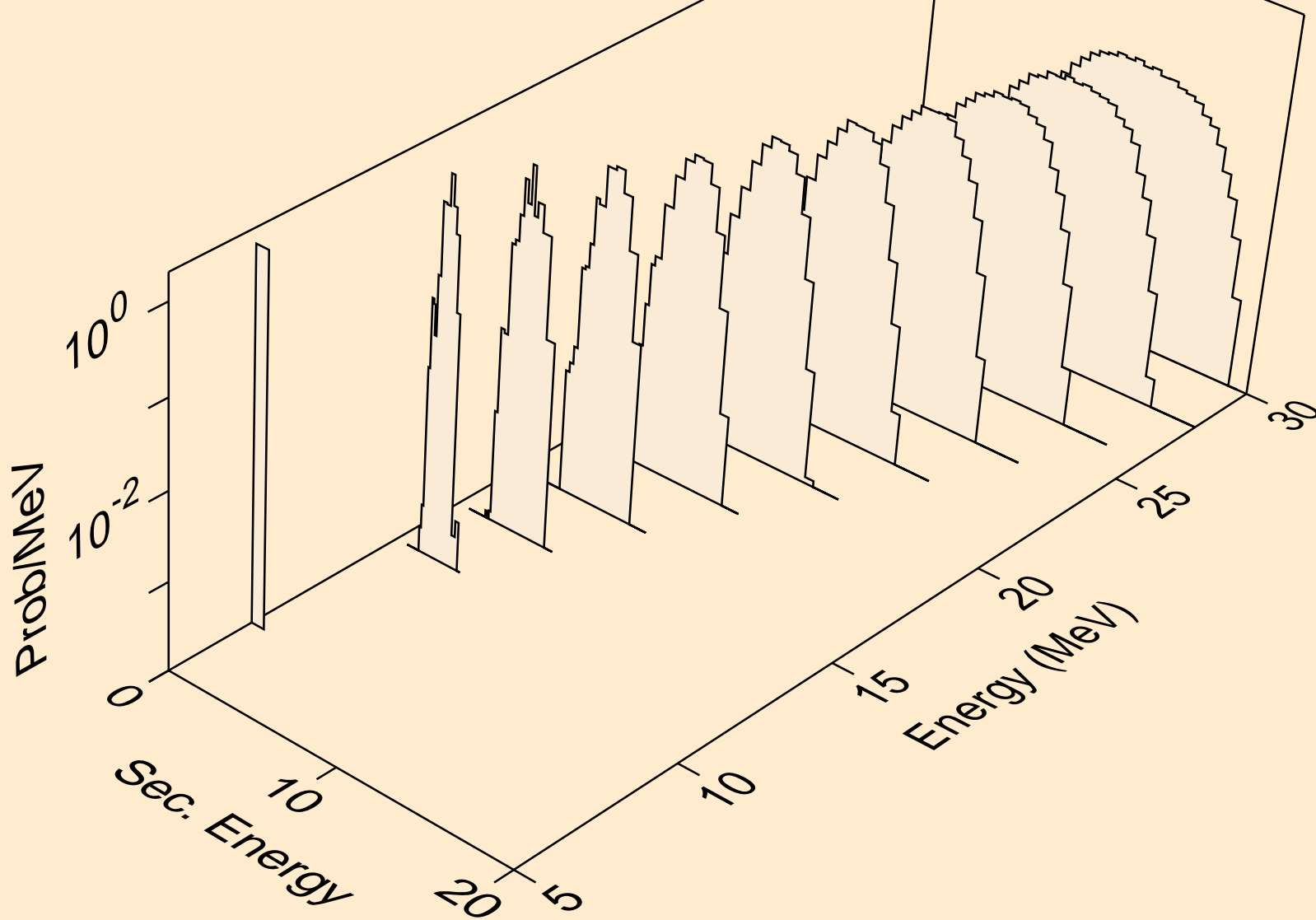
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deuterons from (n,n\*)d



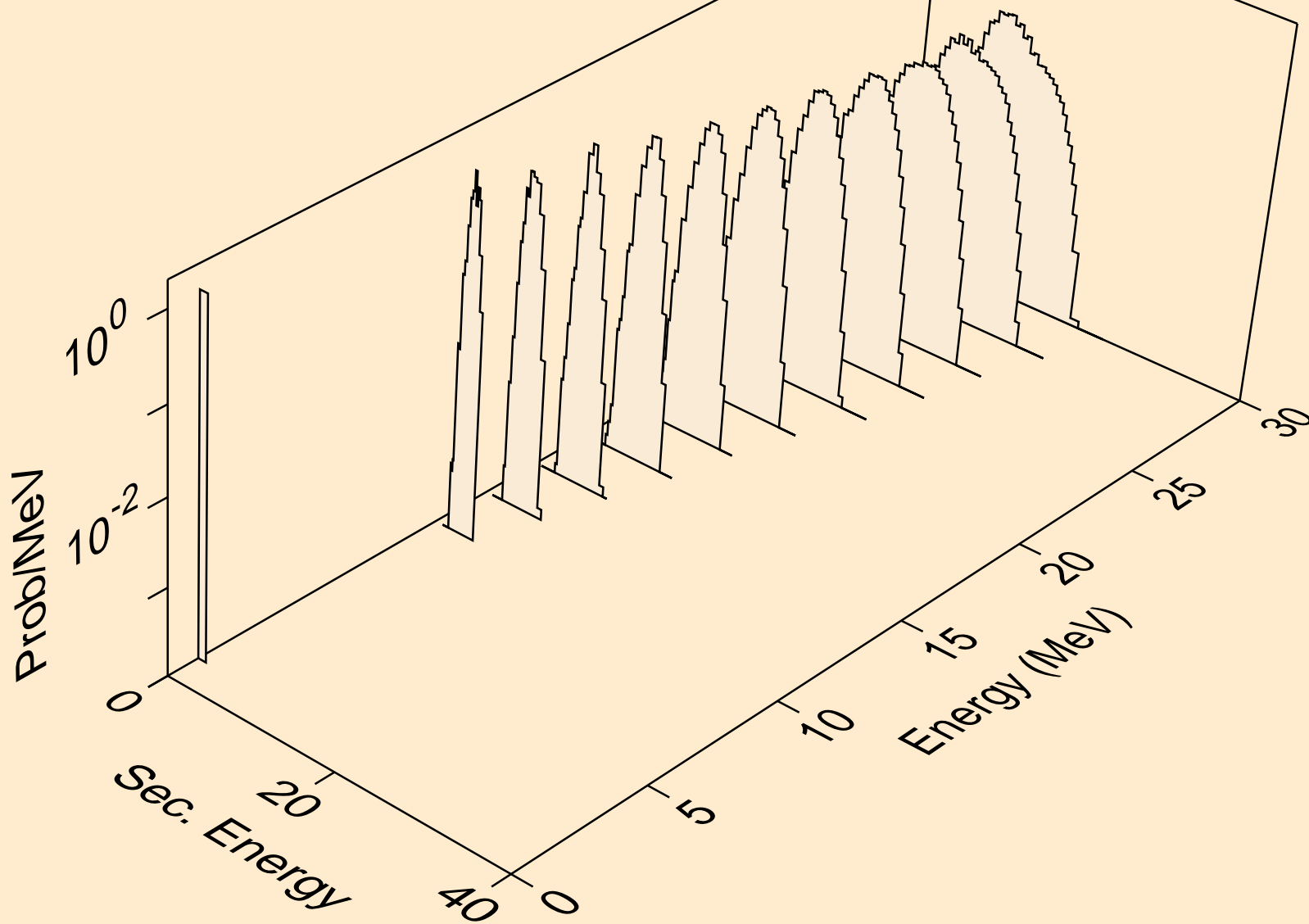
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deuterons from (n,d)



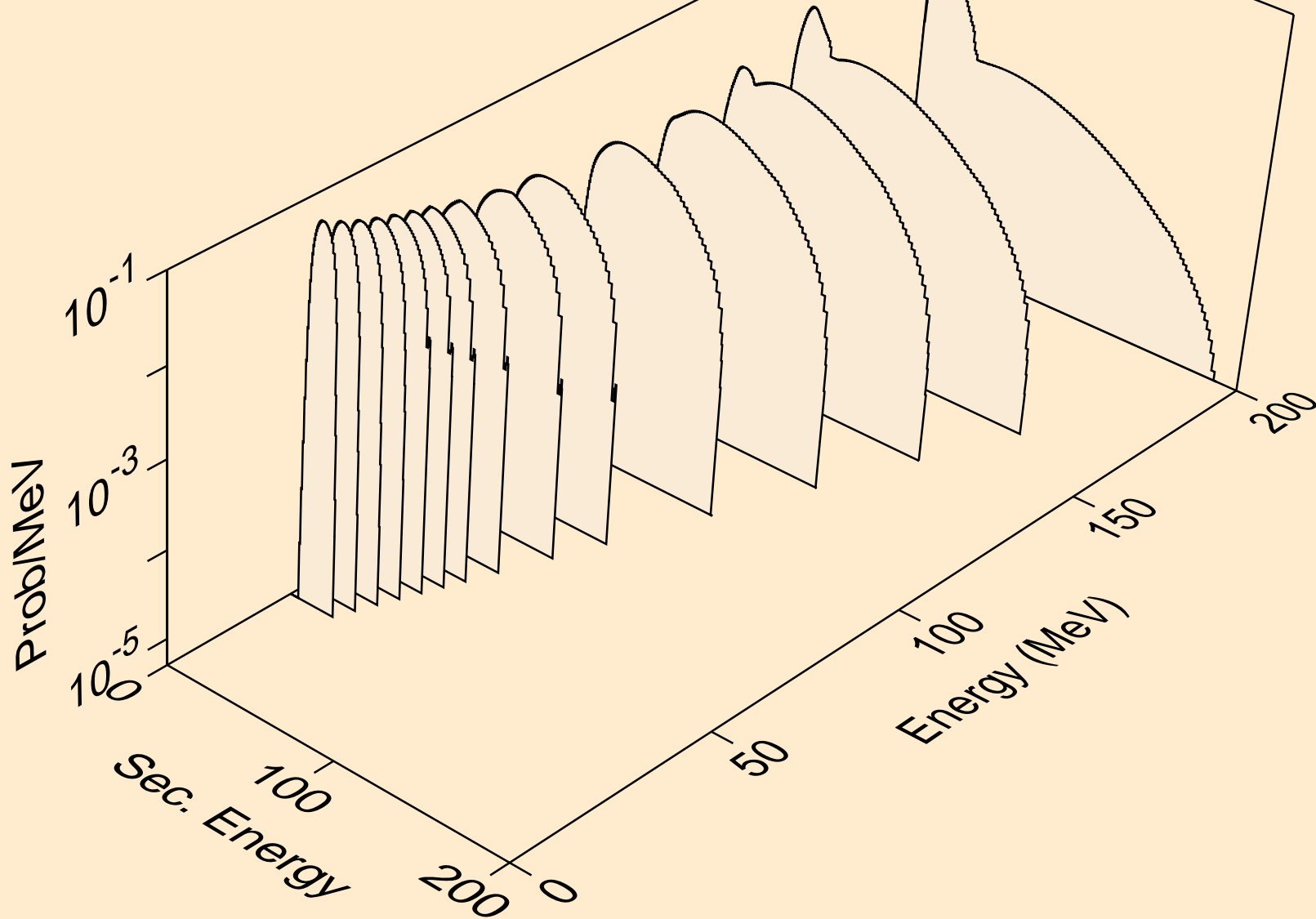
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,pd)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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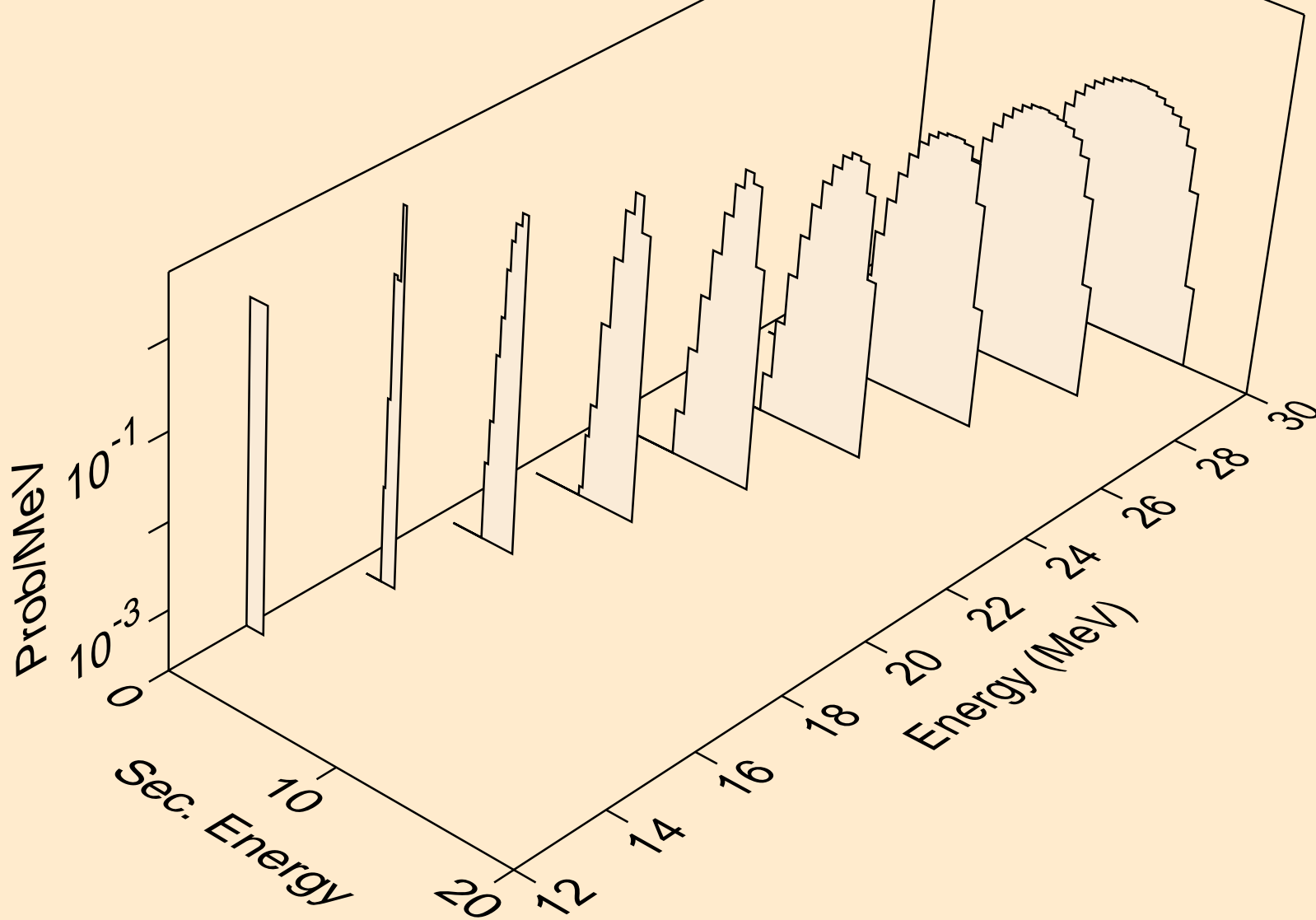


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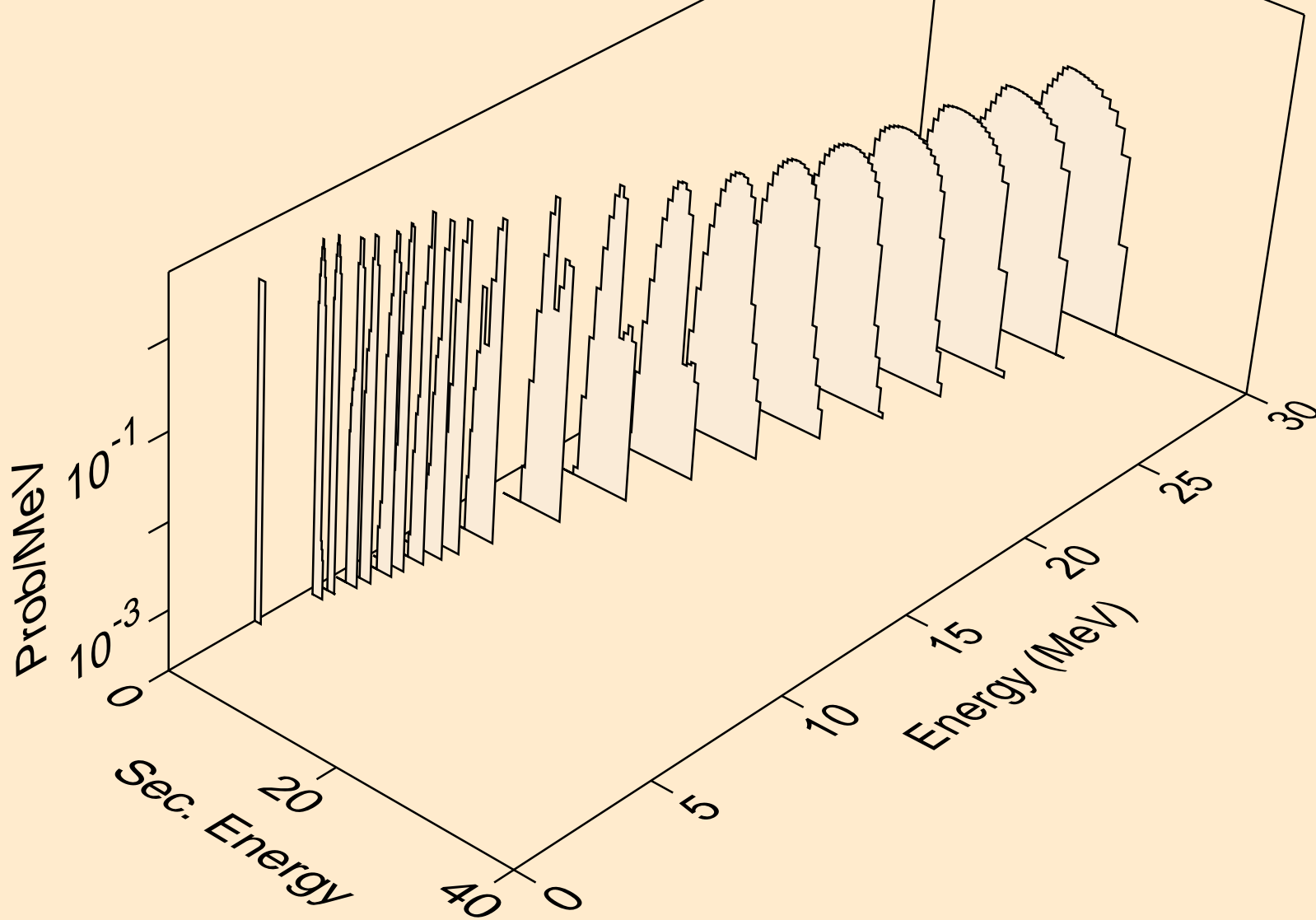




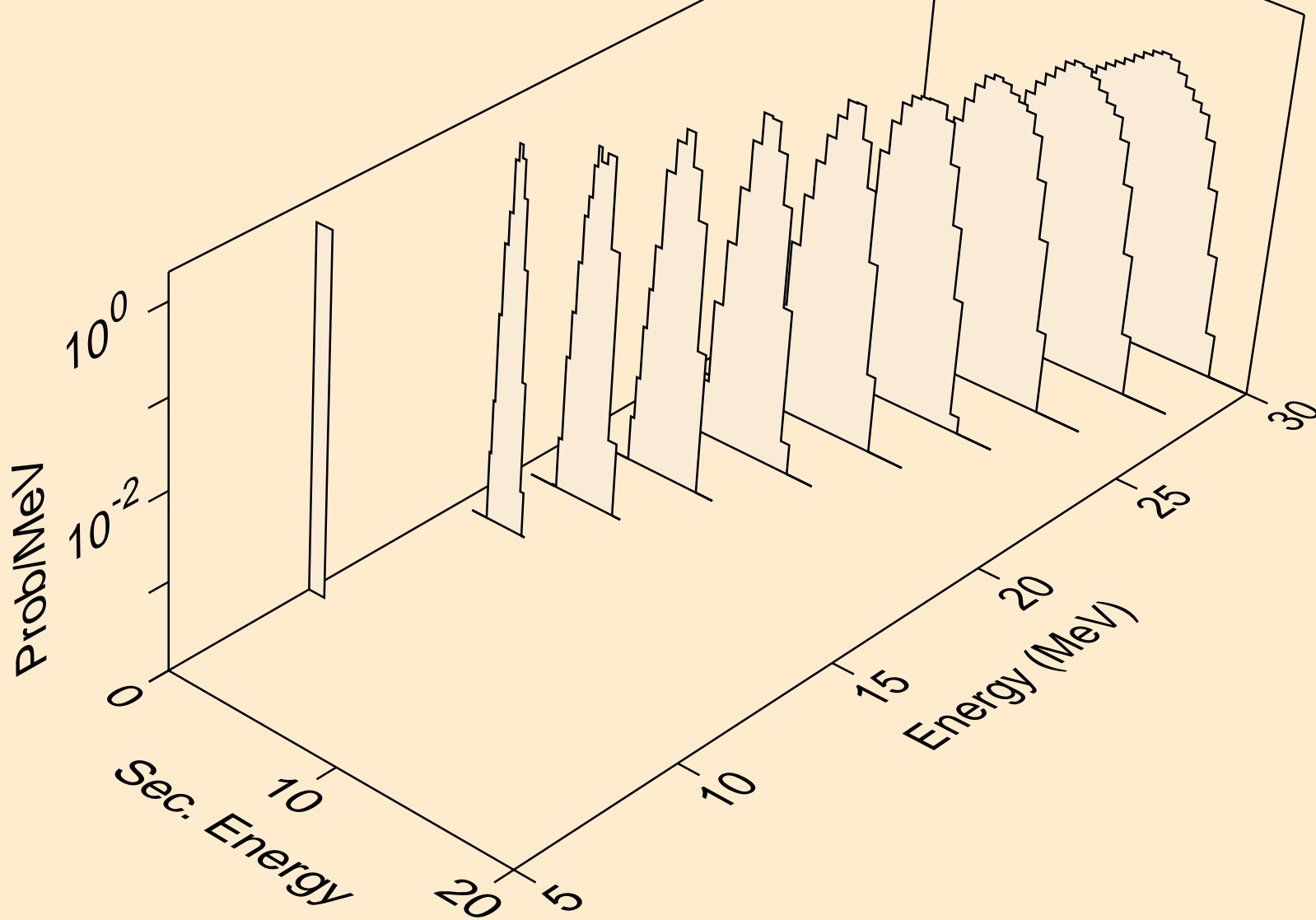
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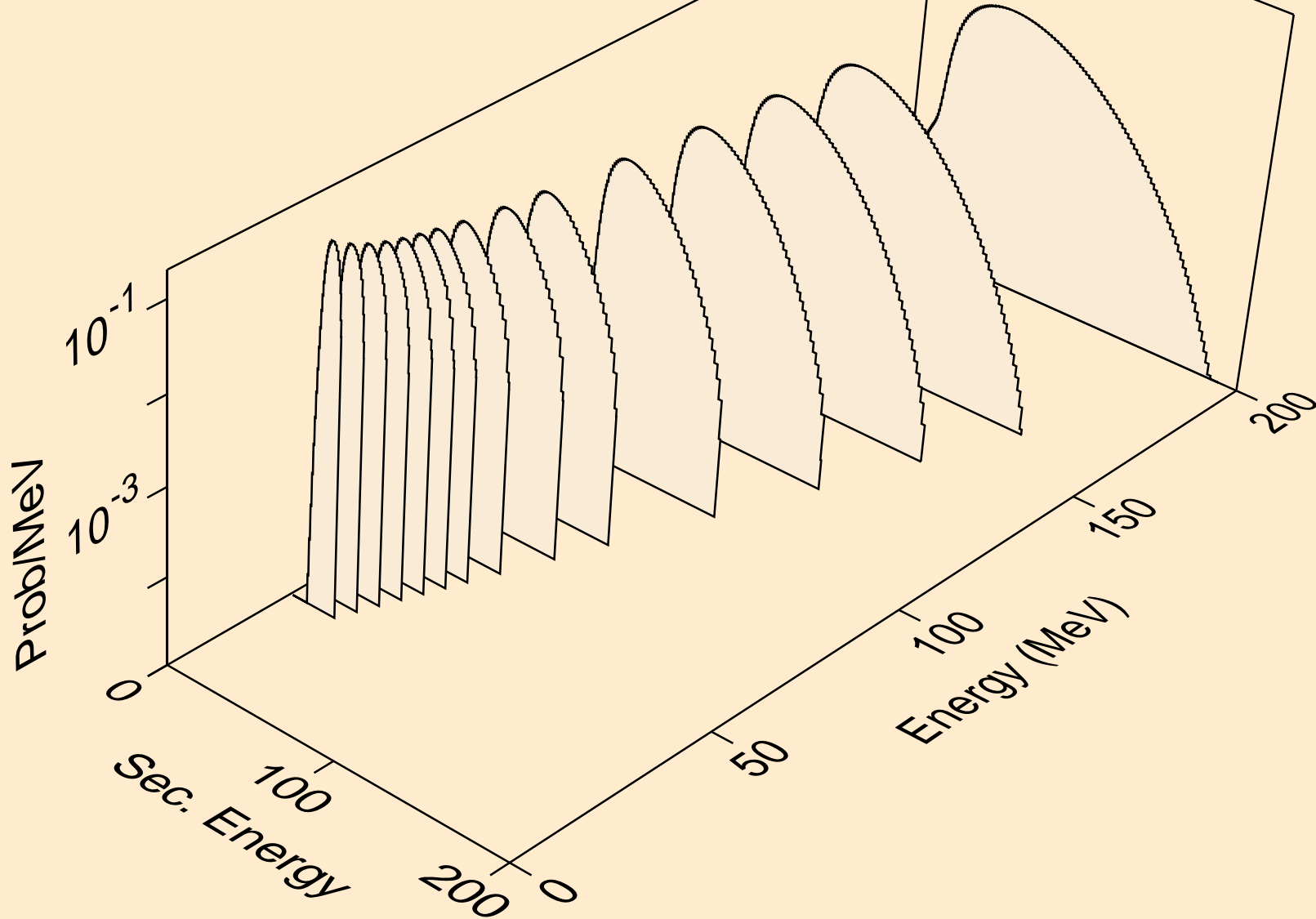
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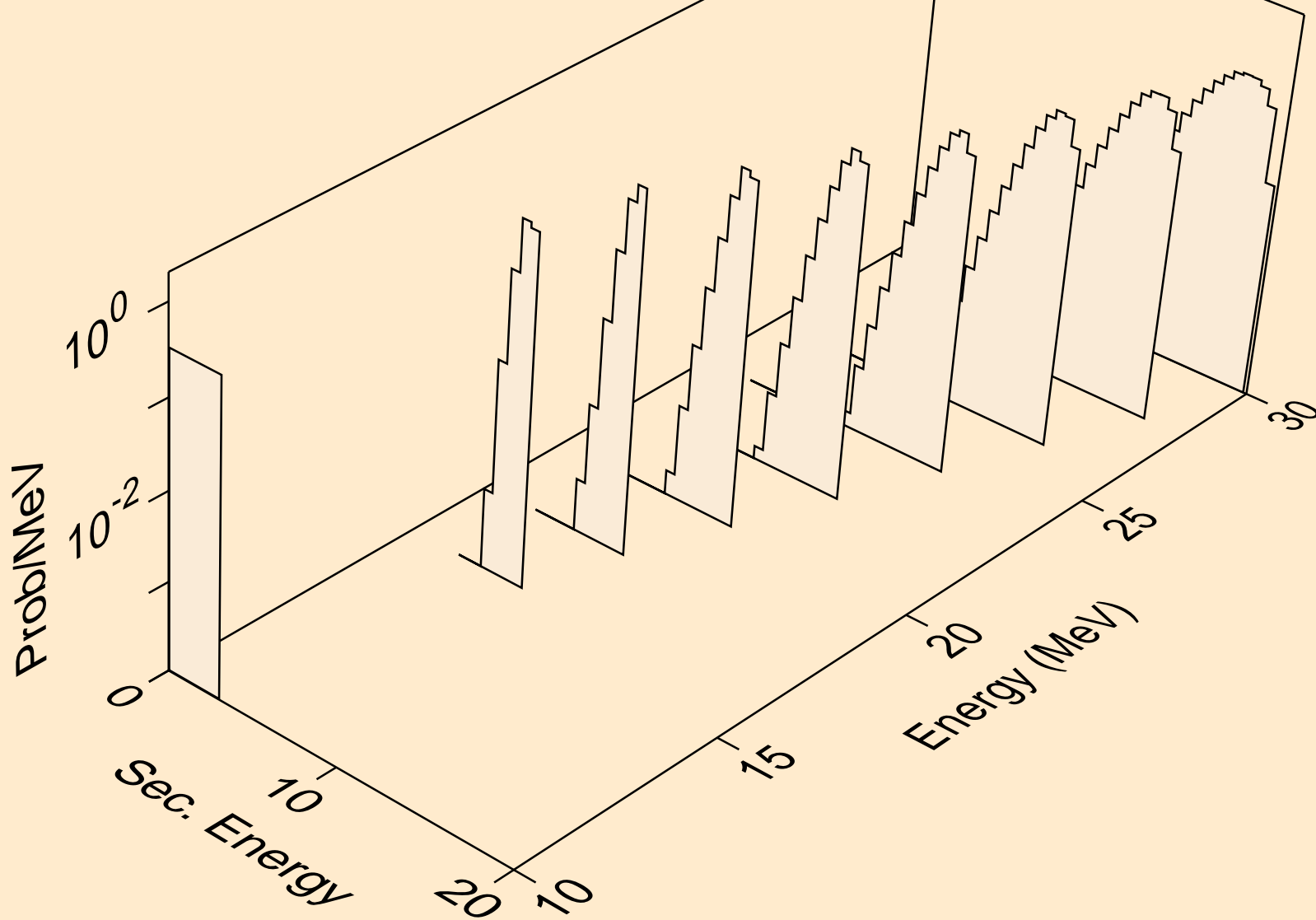
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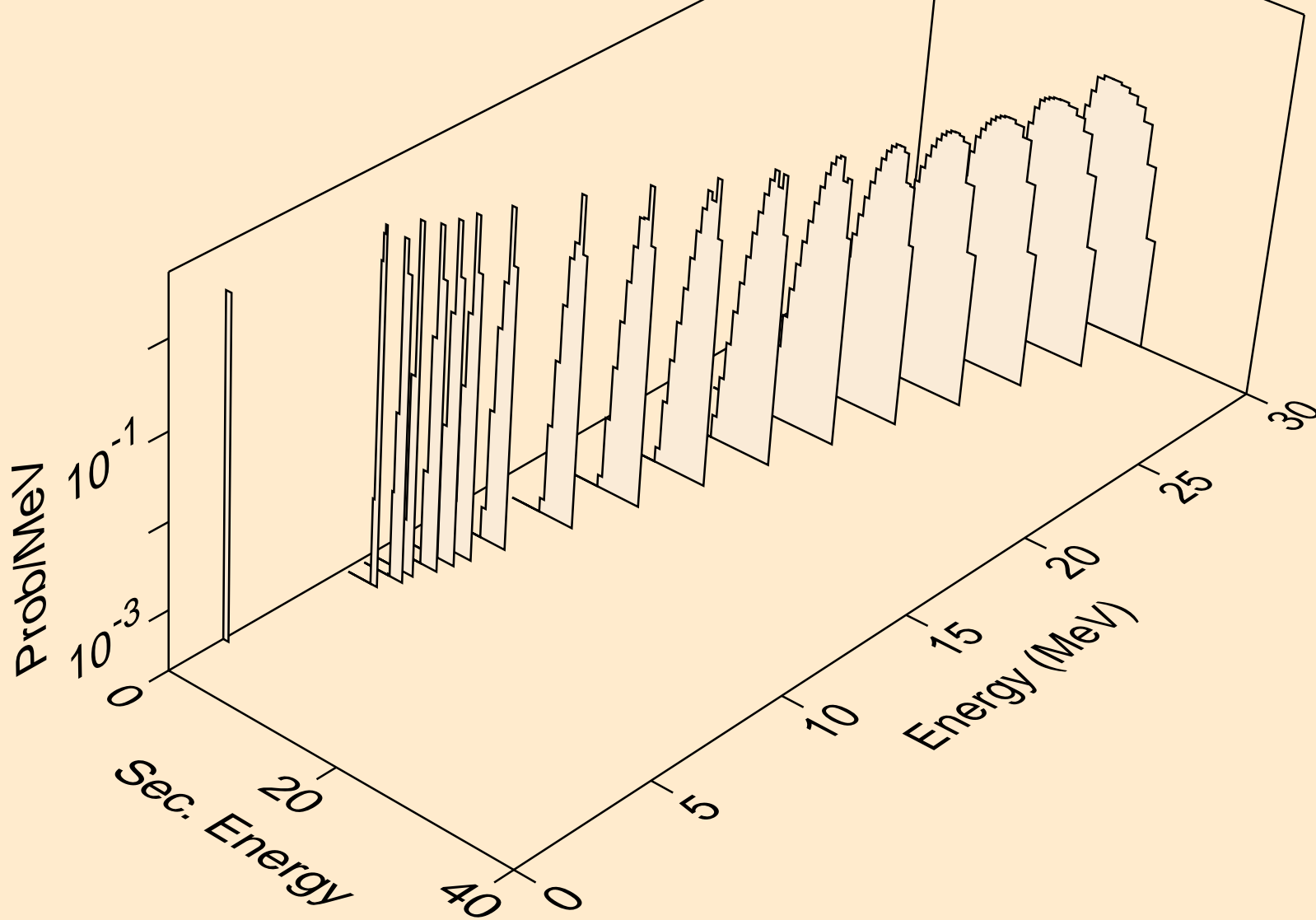
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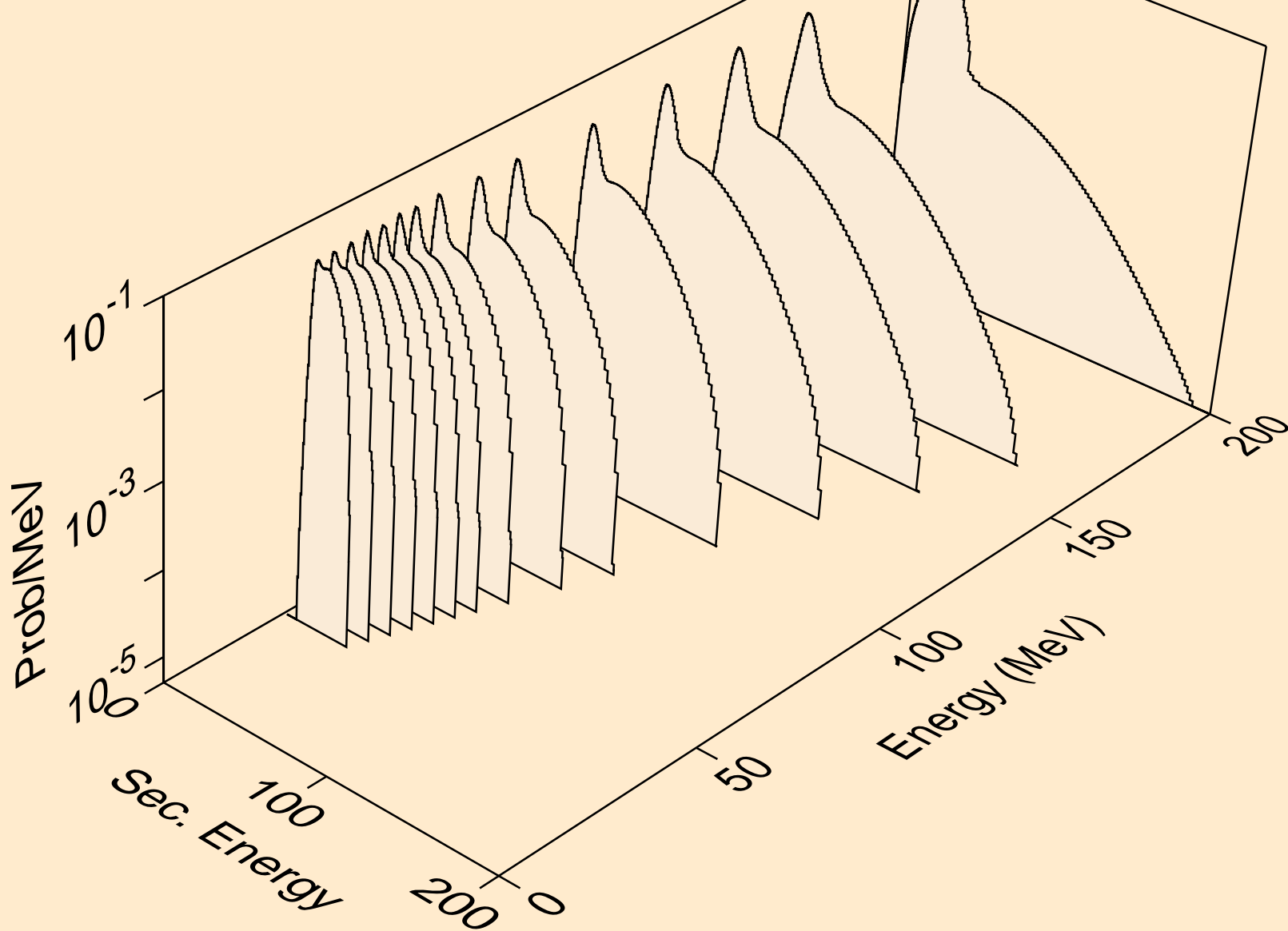
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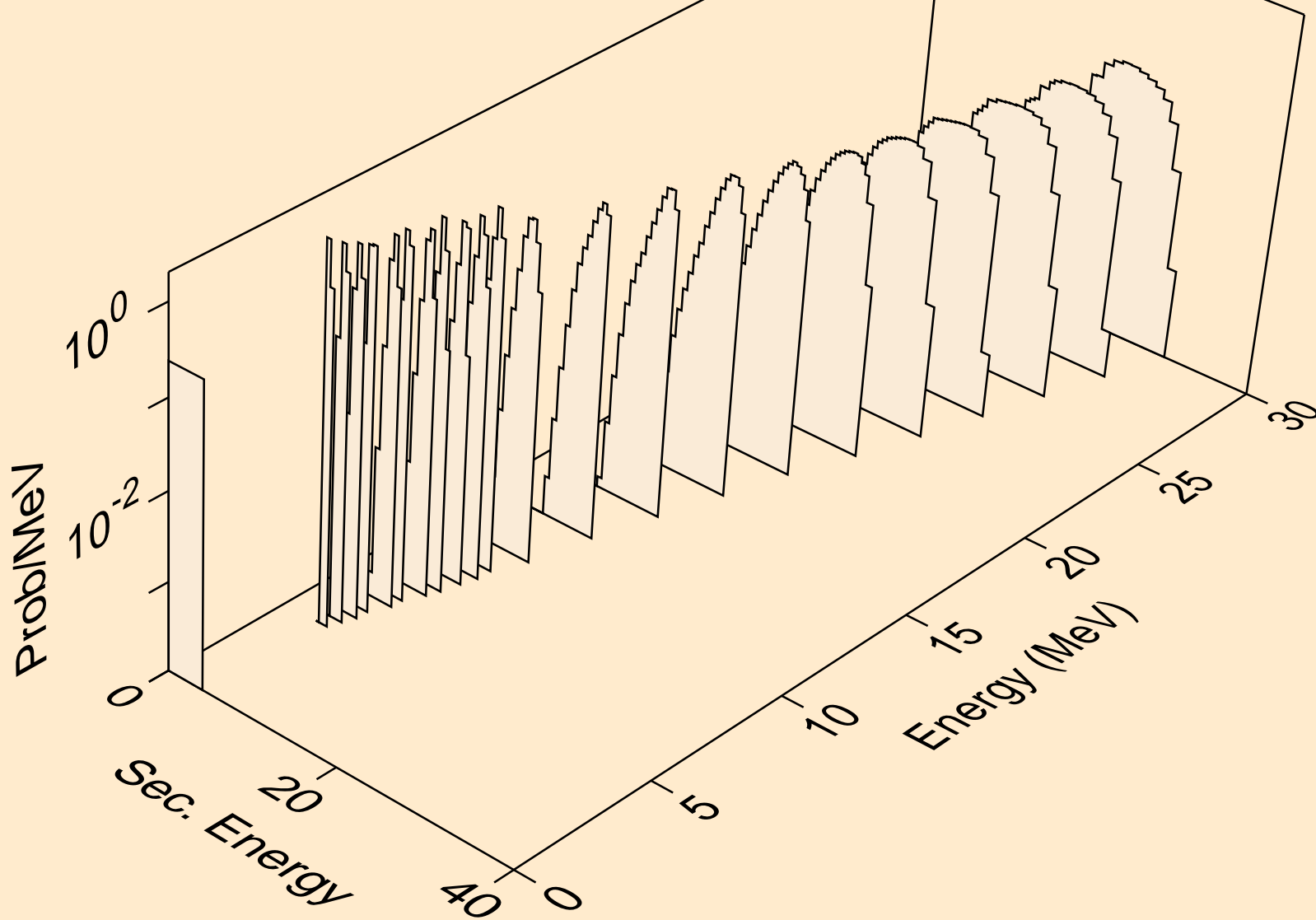
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PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)

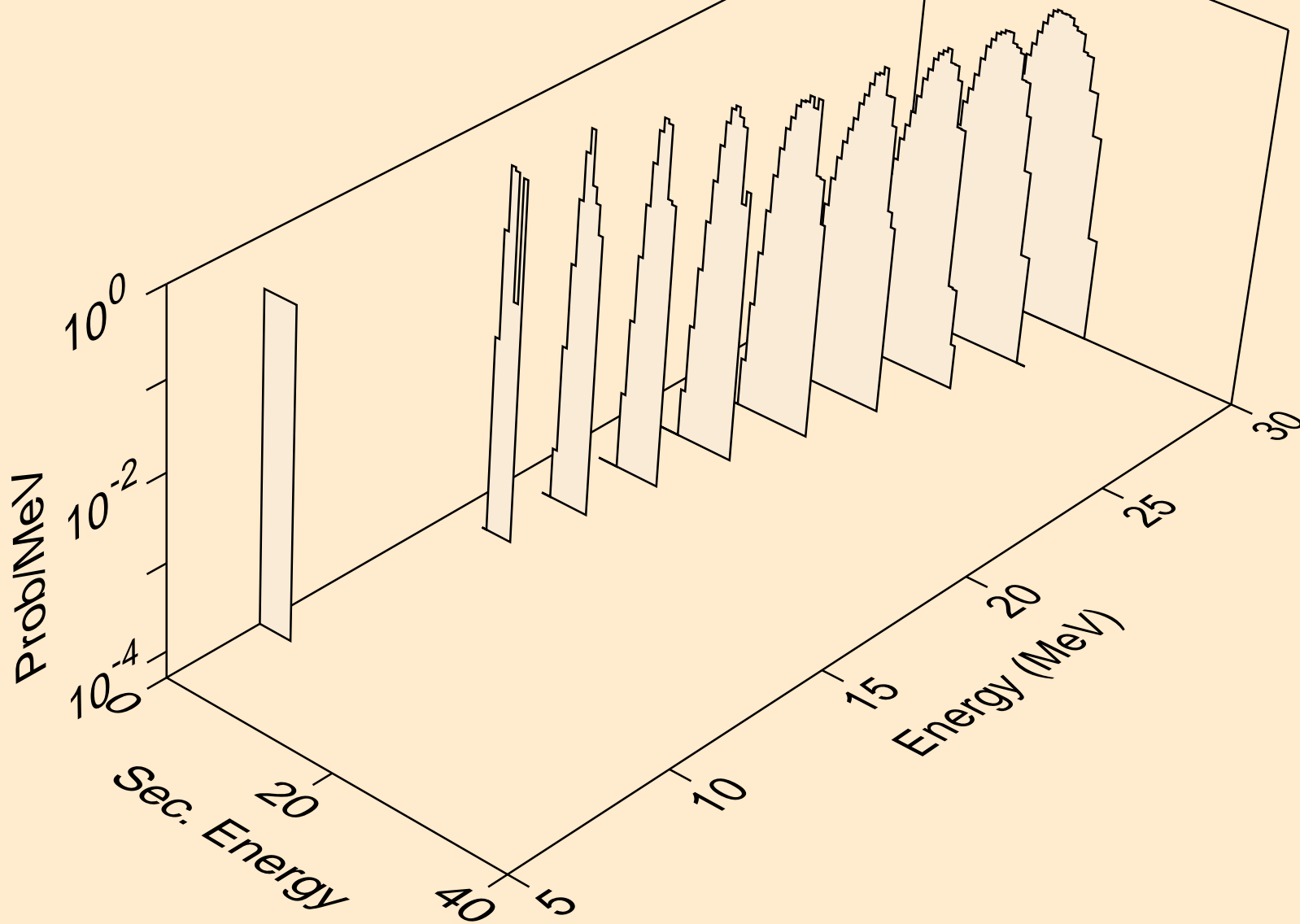


PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a

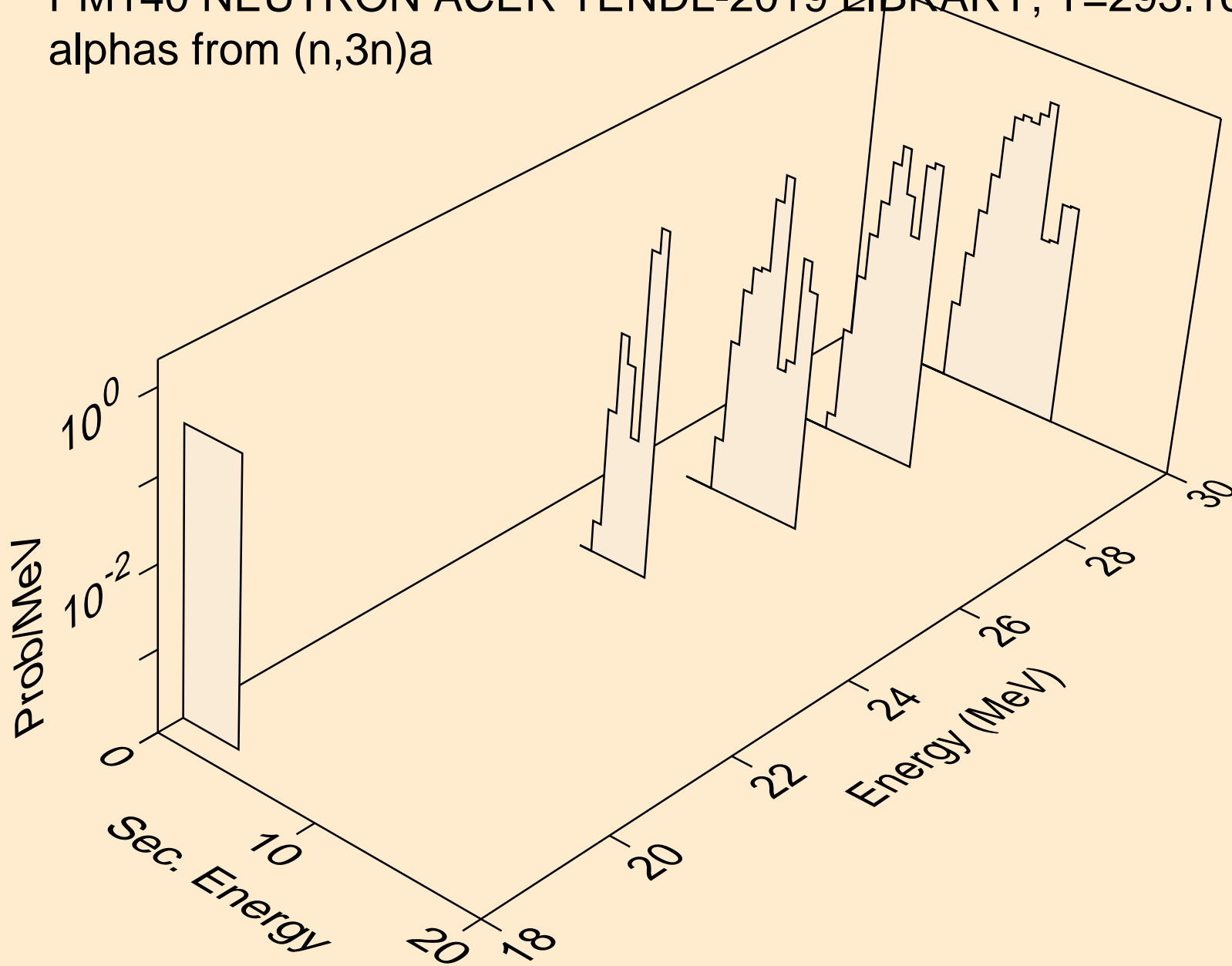




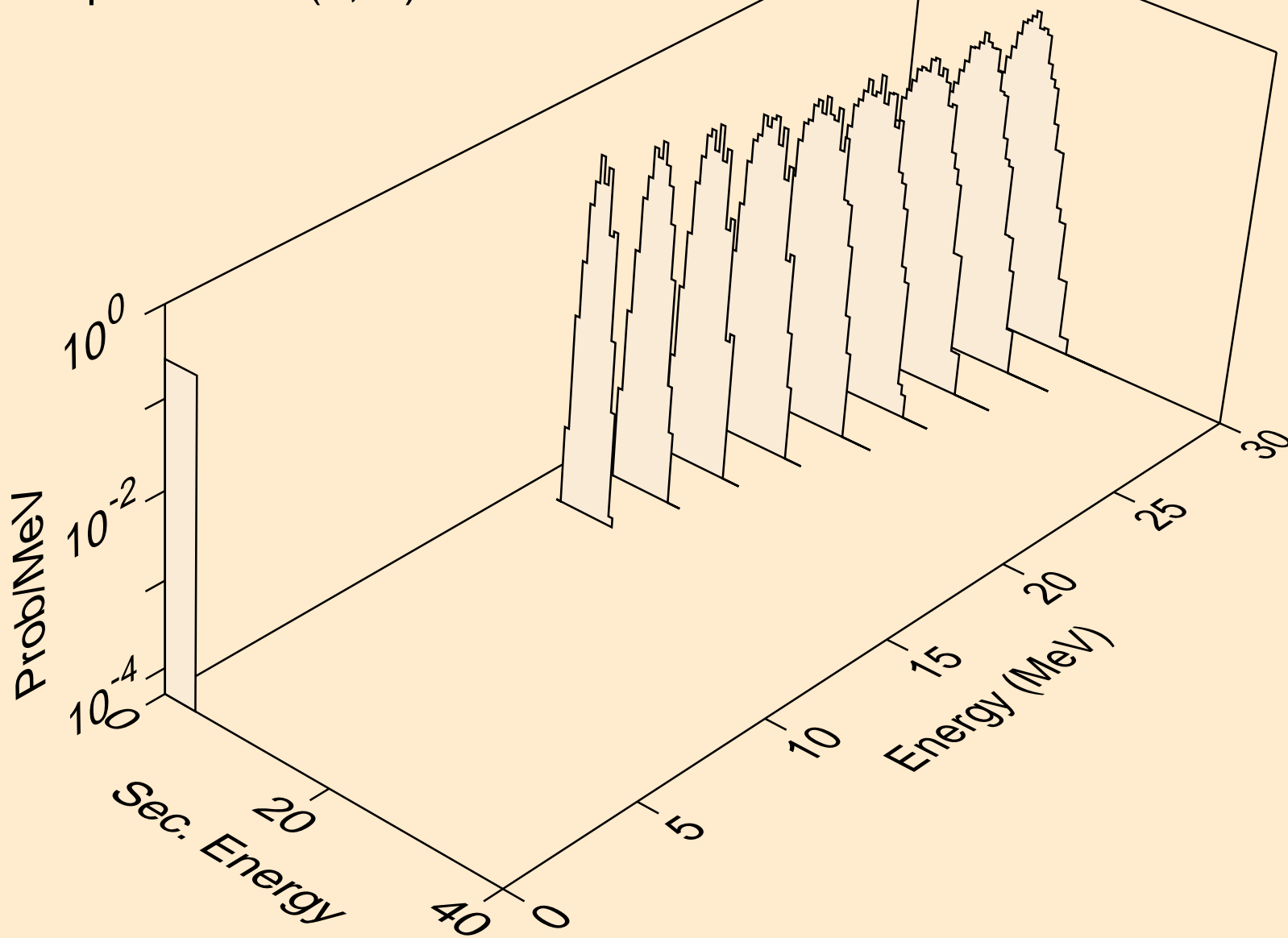
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alphas from (n,2n)a



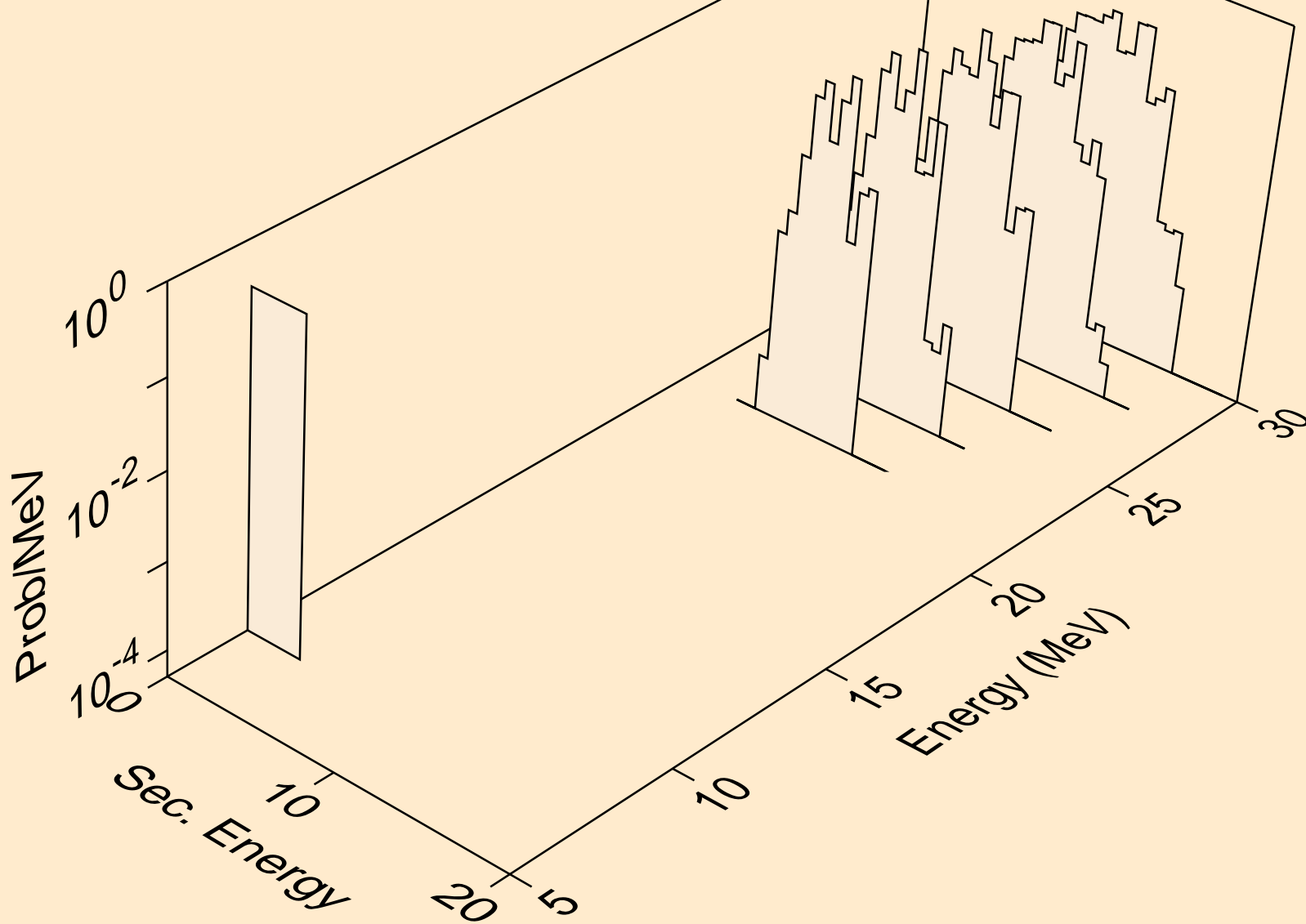
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alphas from (n,3n)a



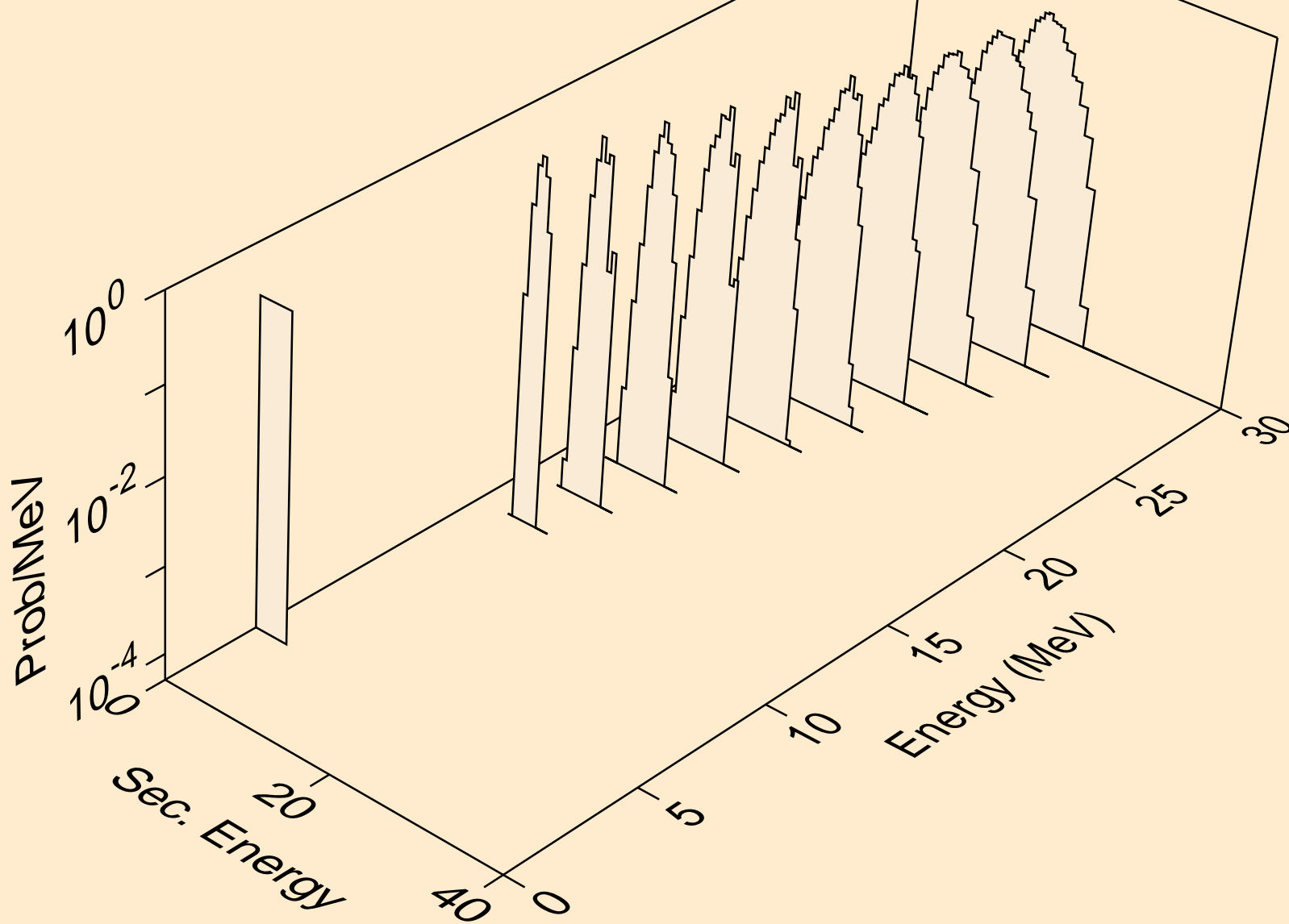
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a



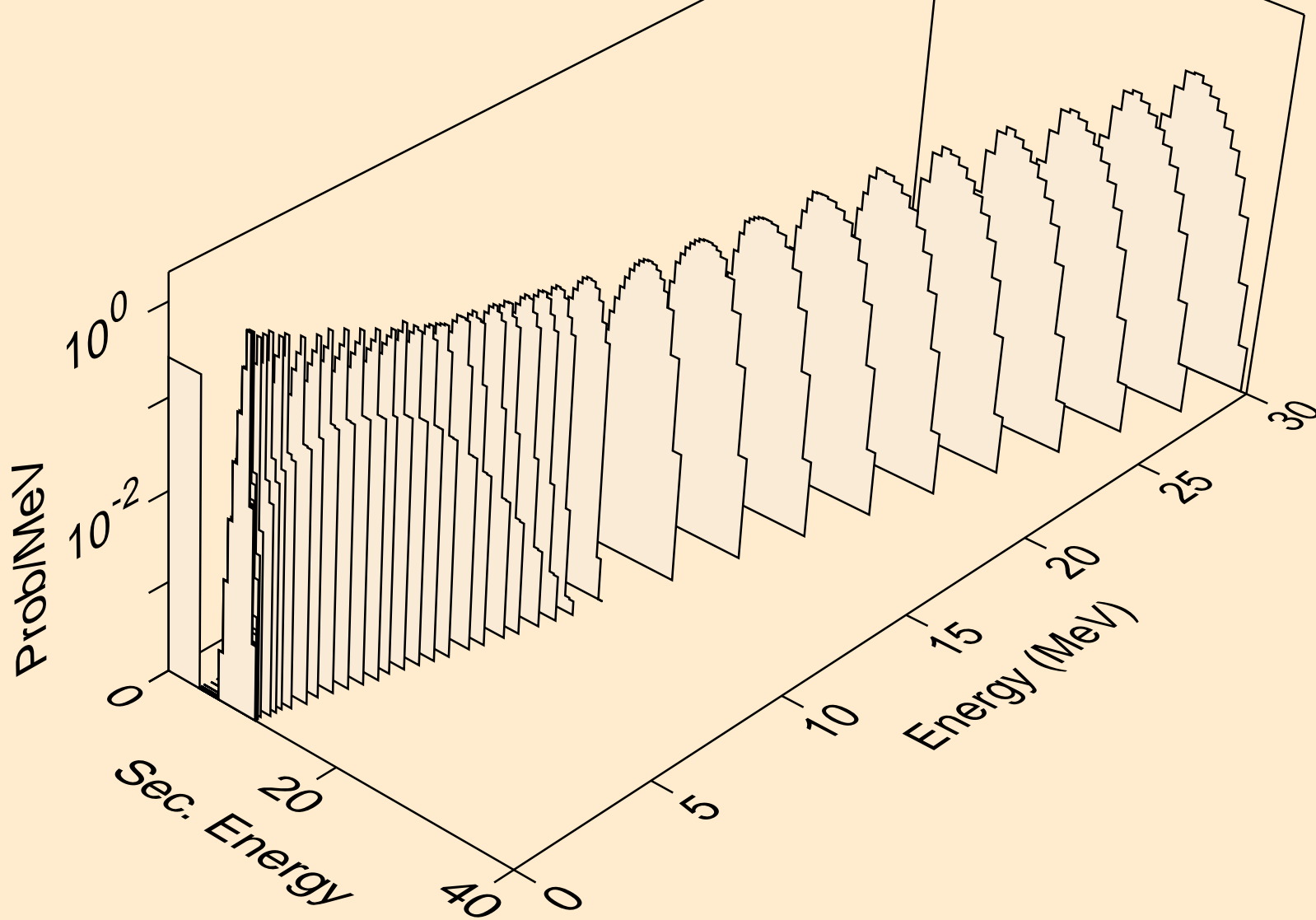
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)2a



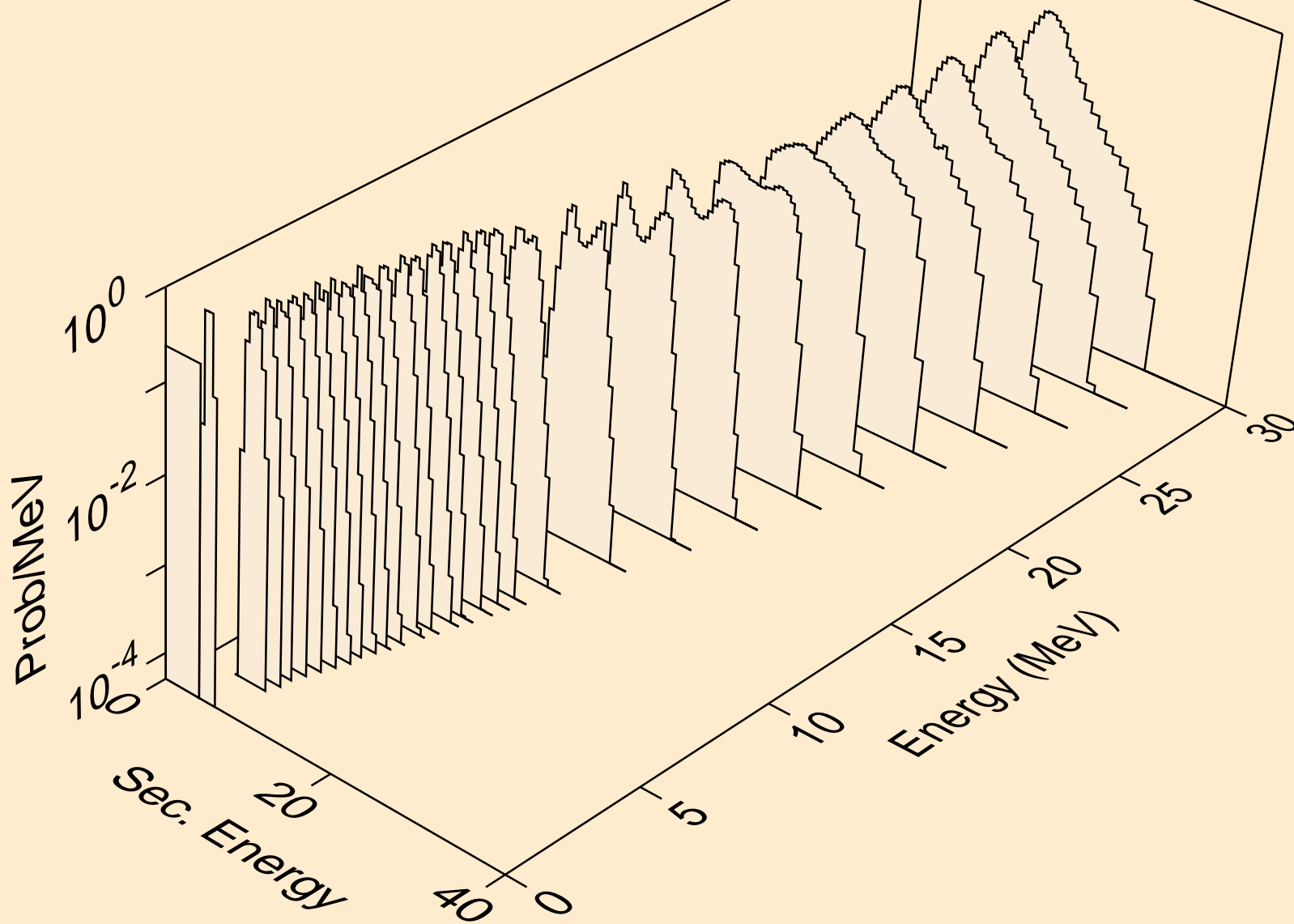
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alphas from (n,npa)



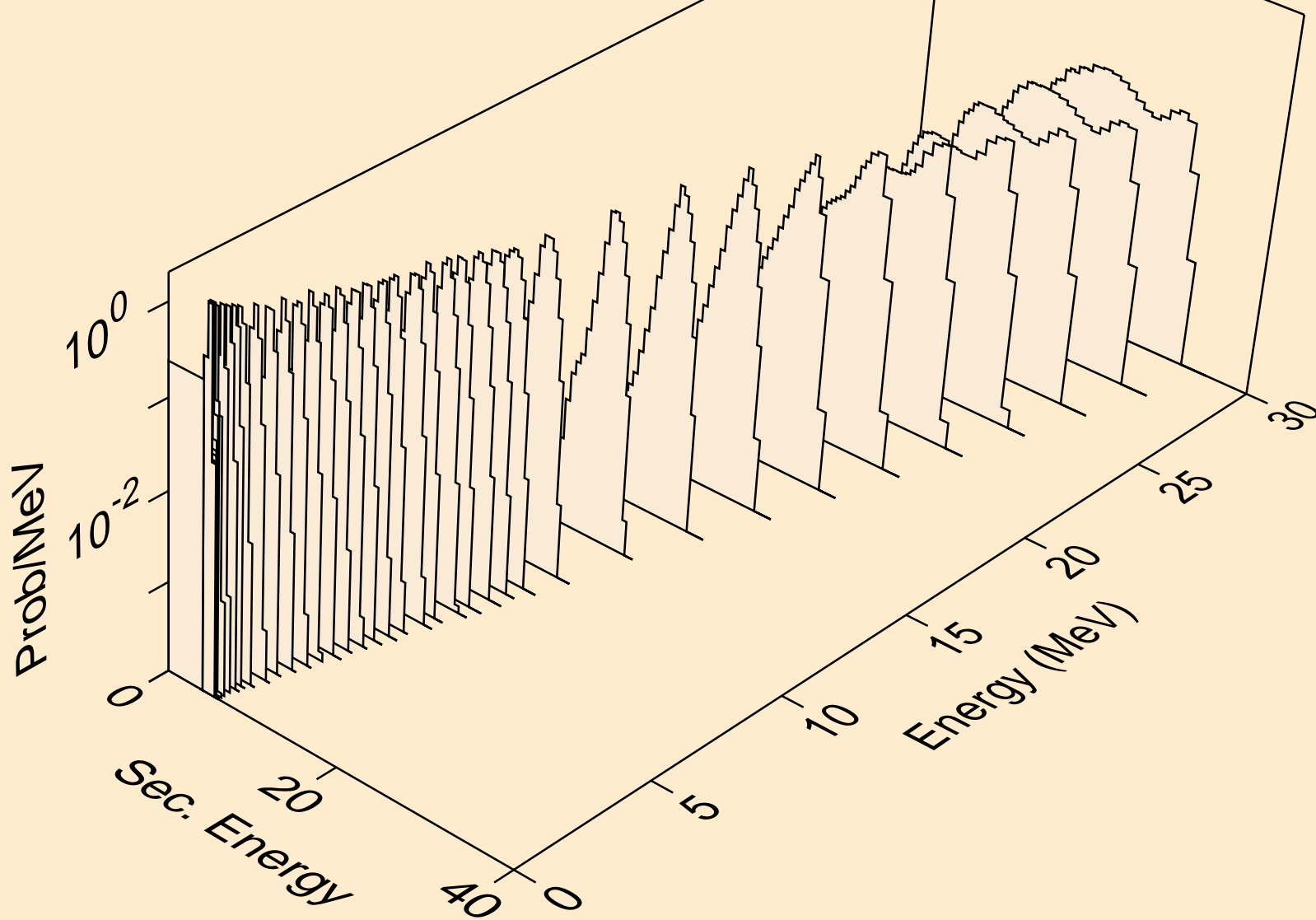
PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)





PM140 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

