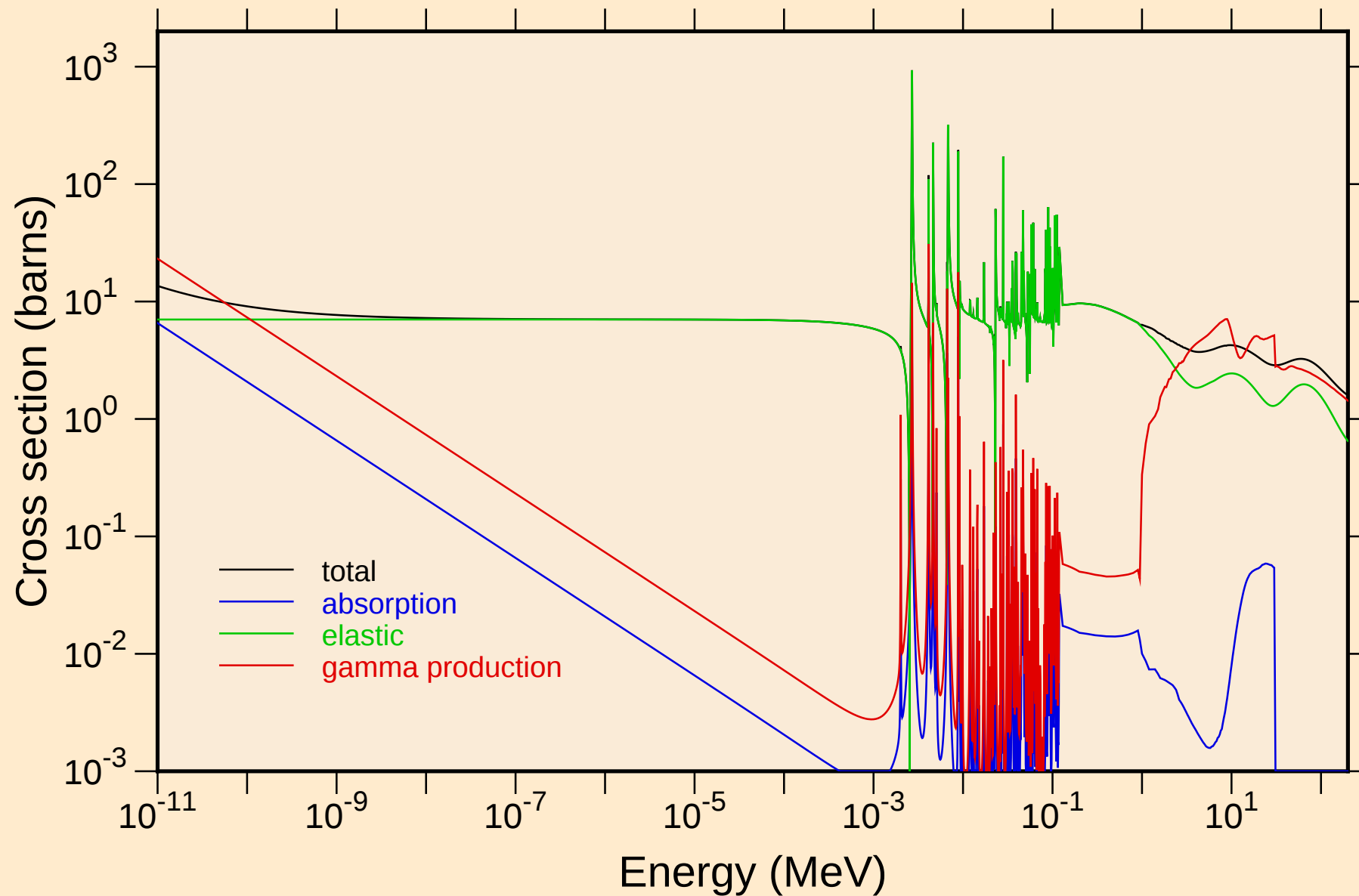
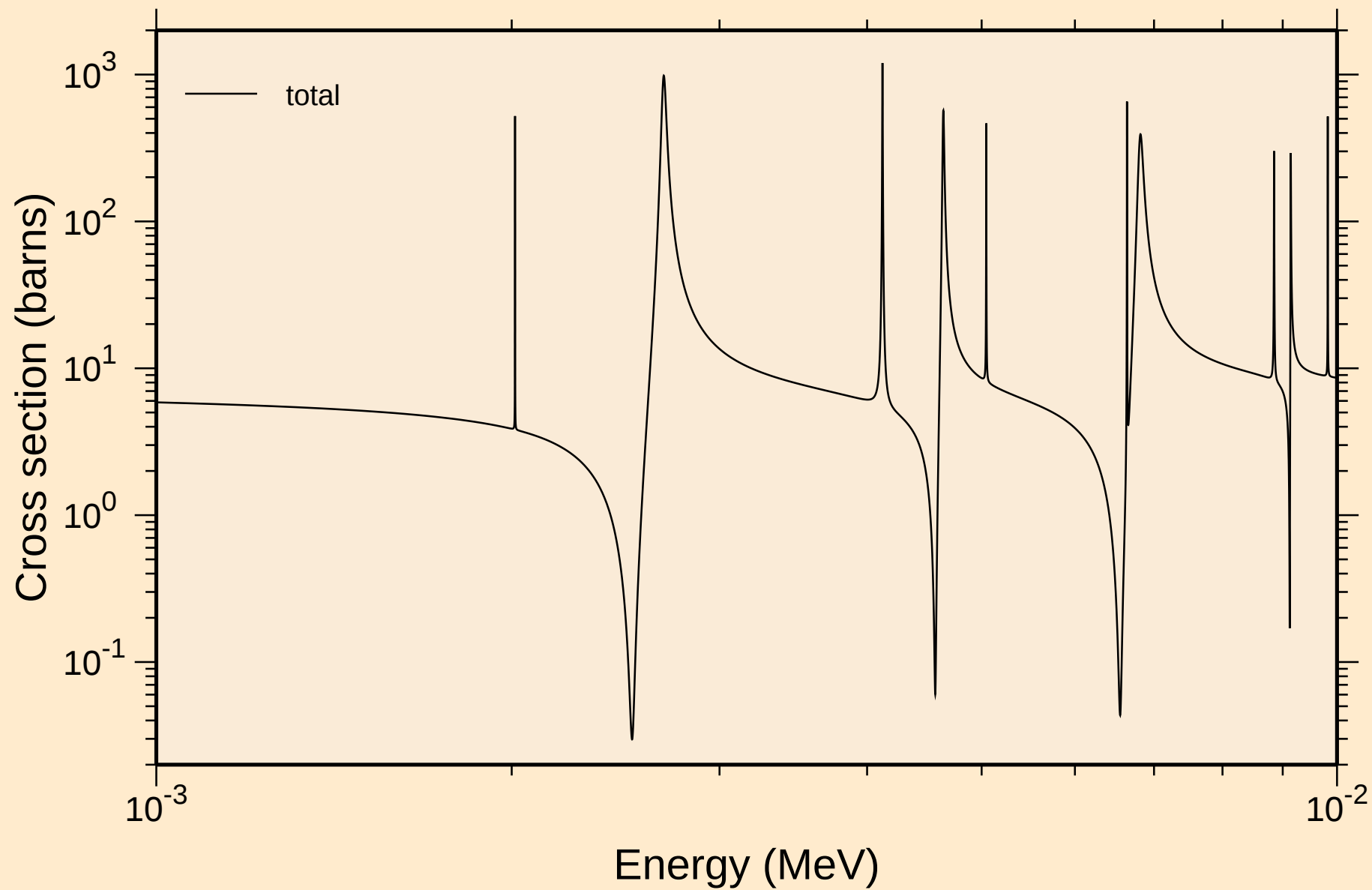


# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

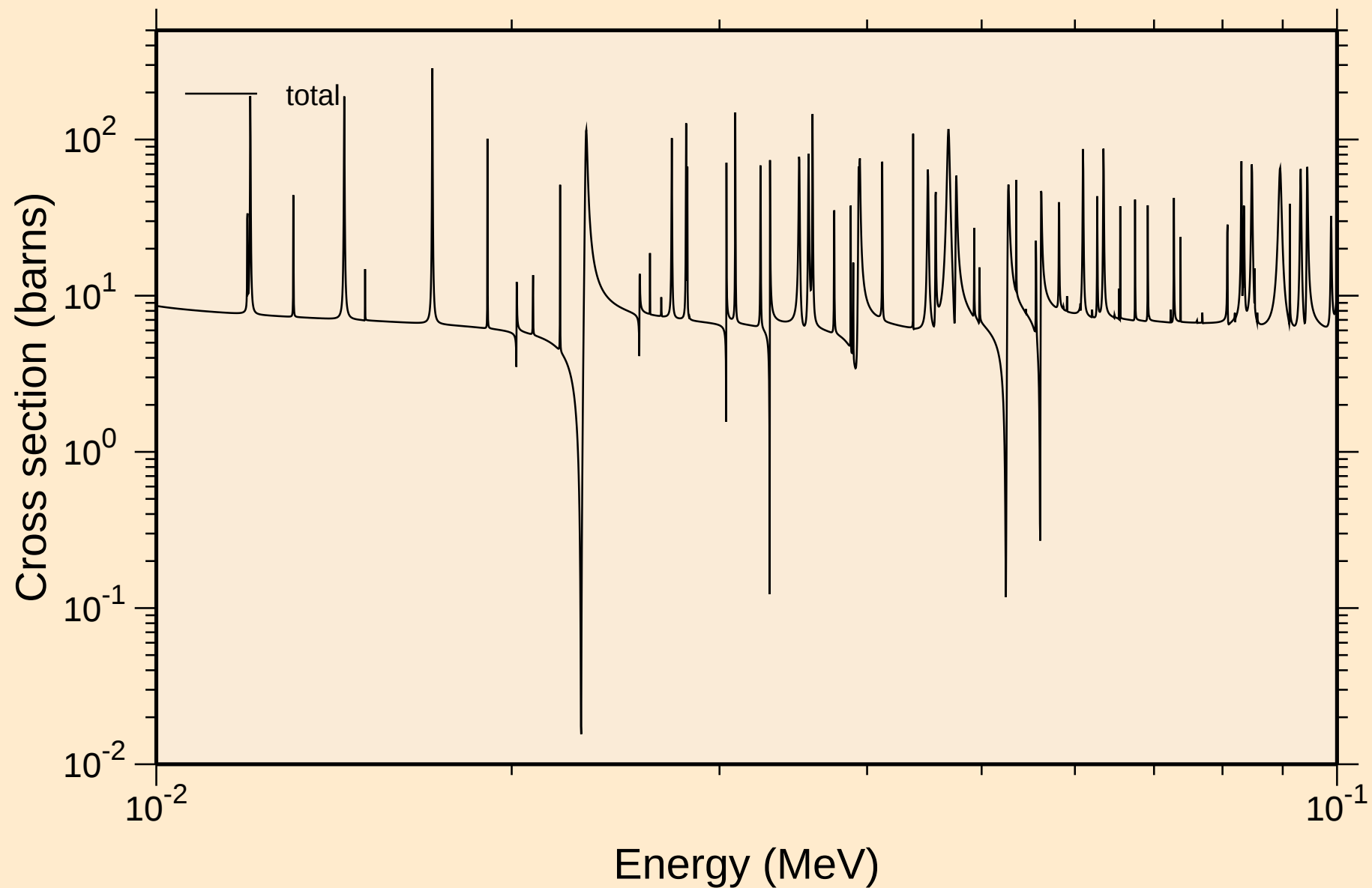
## Principal cross sections



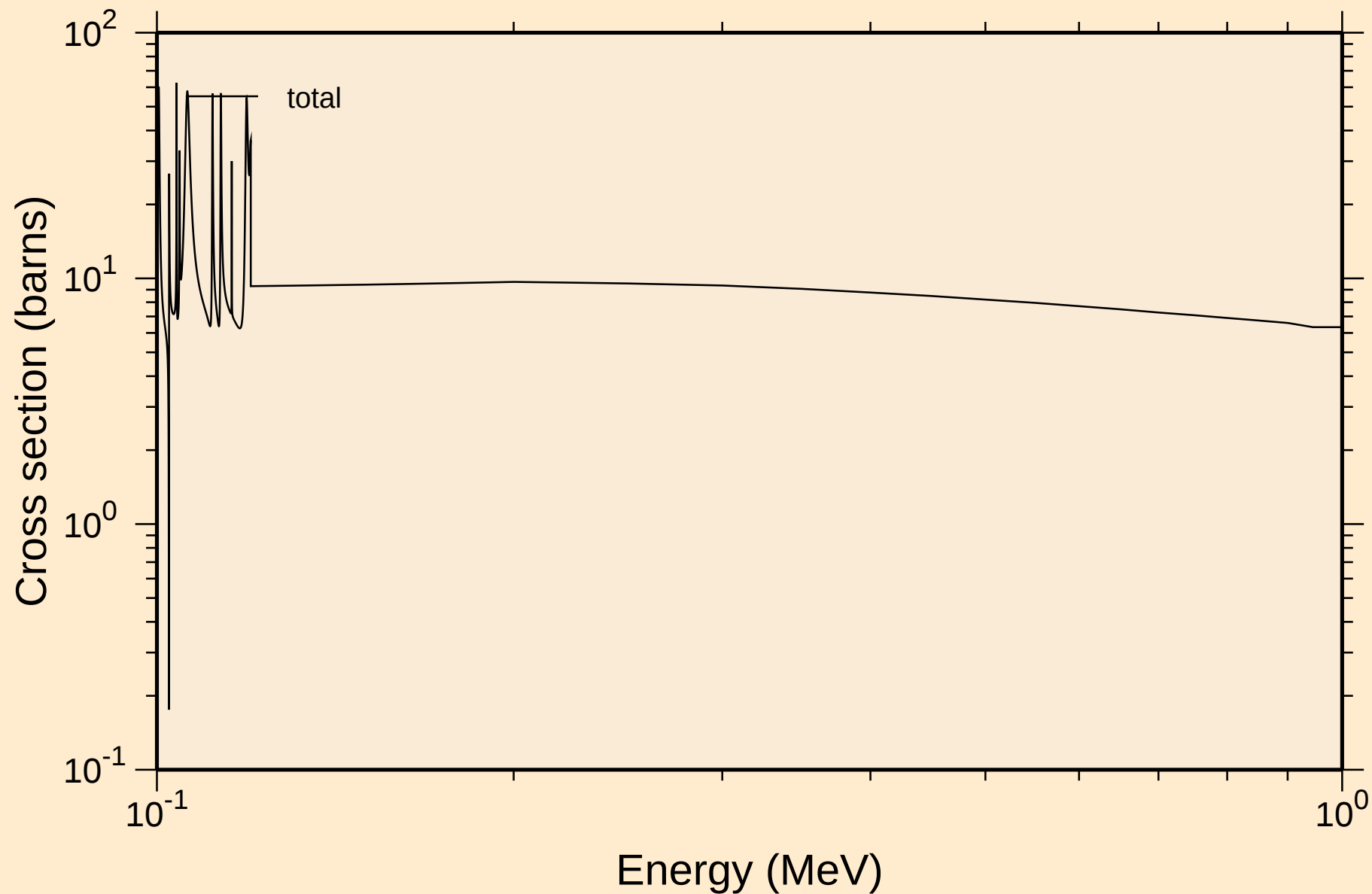
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



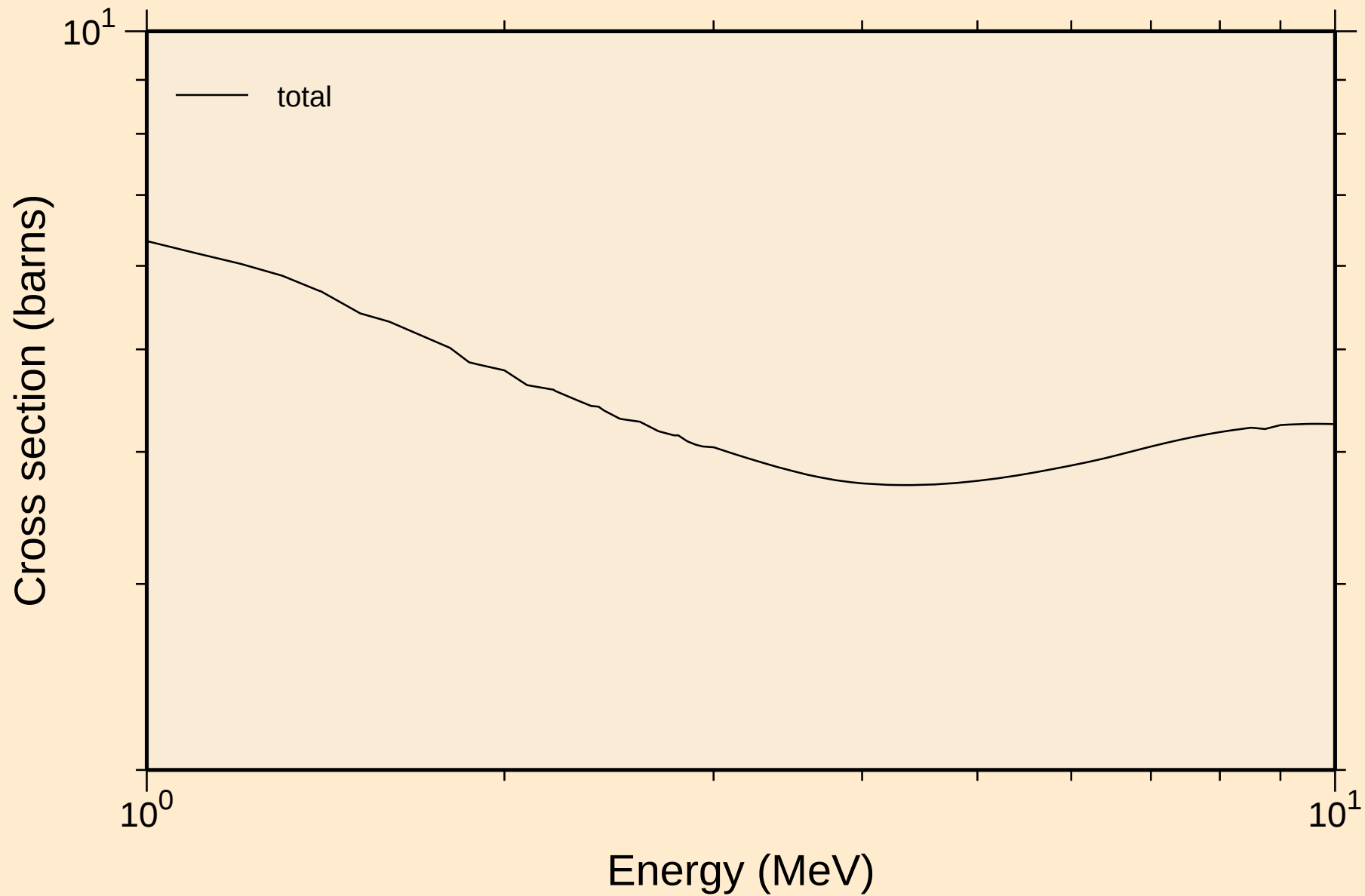
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



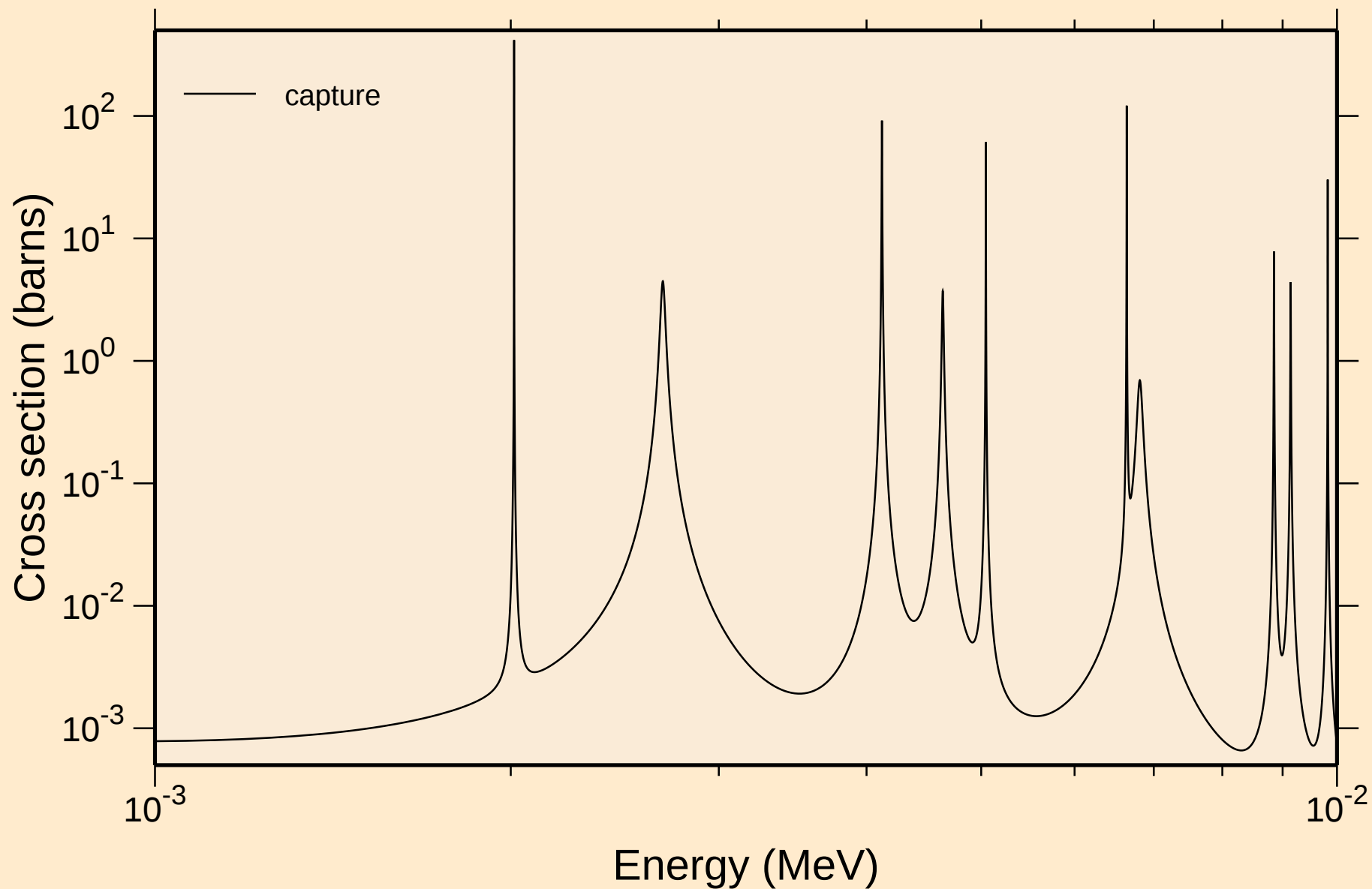
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



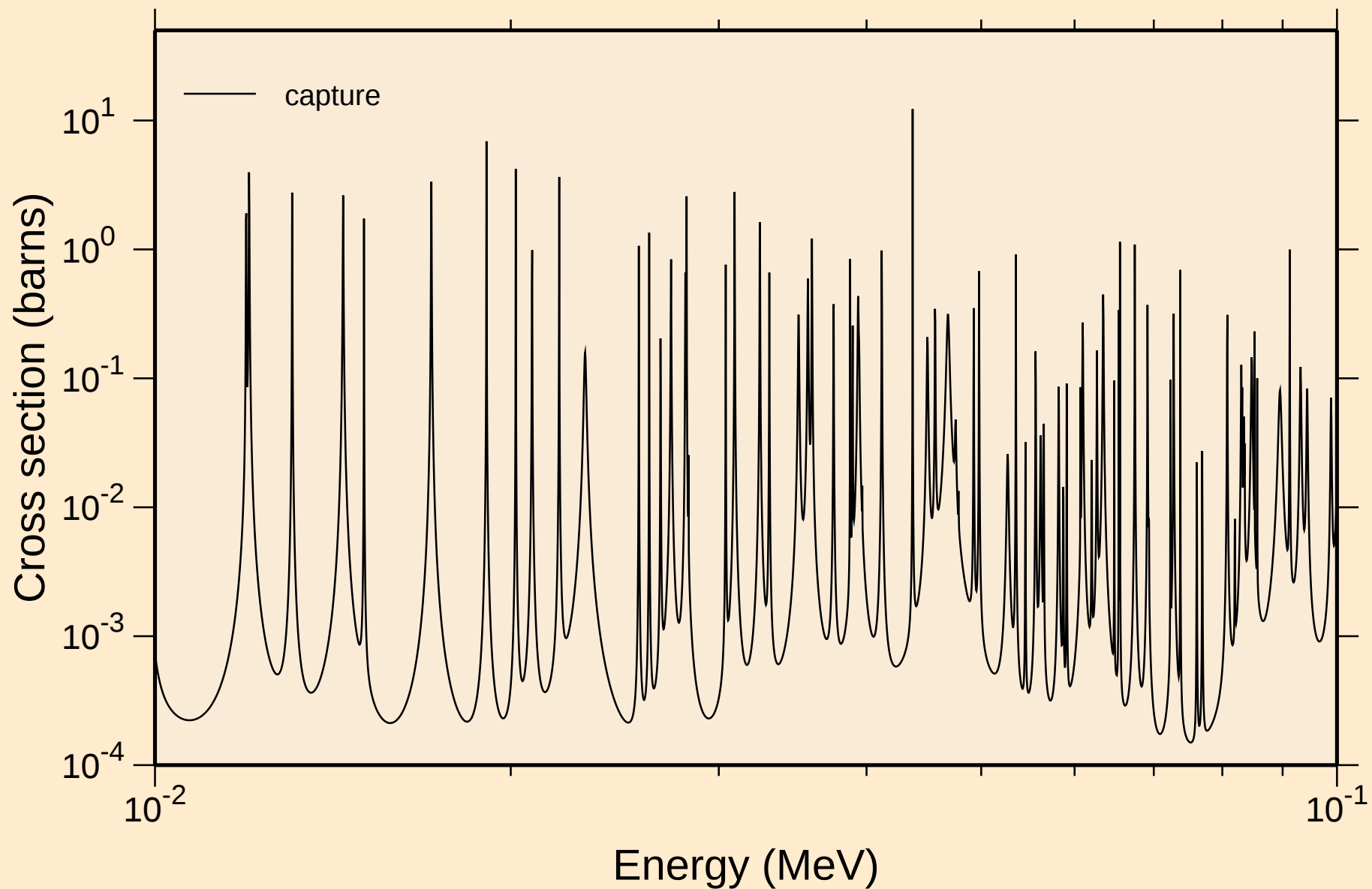
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



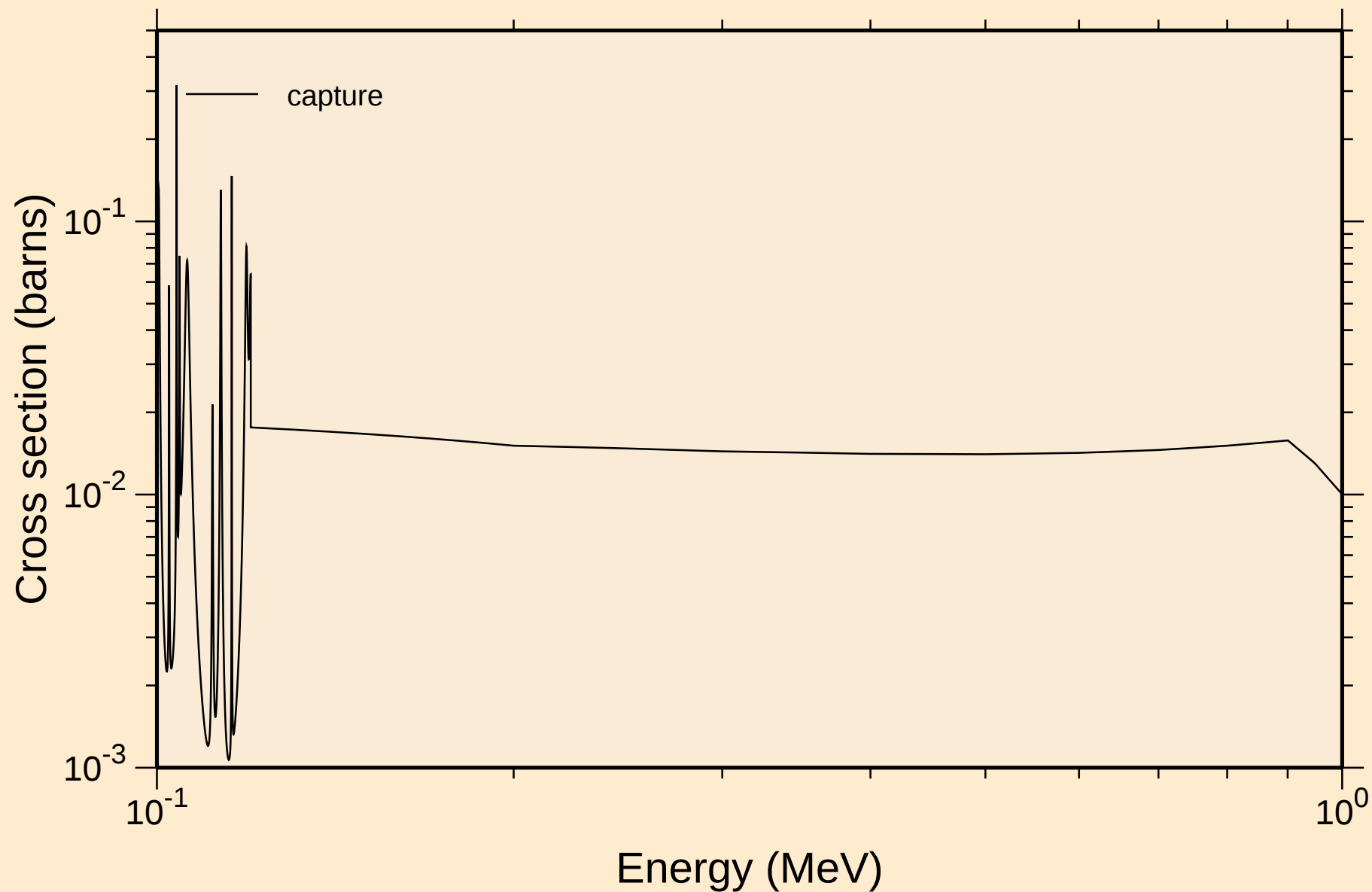
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



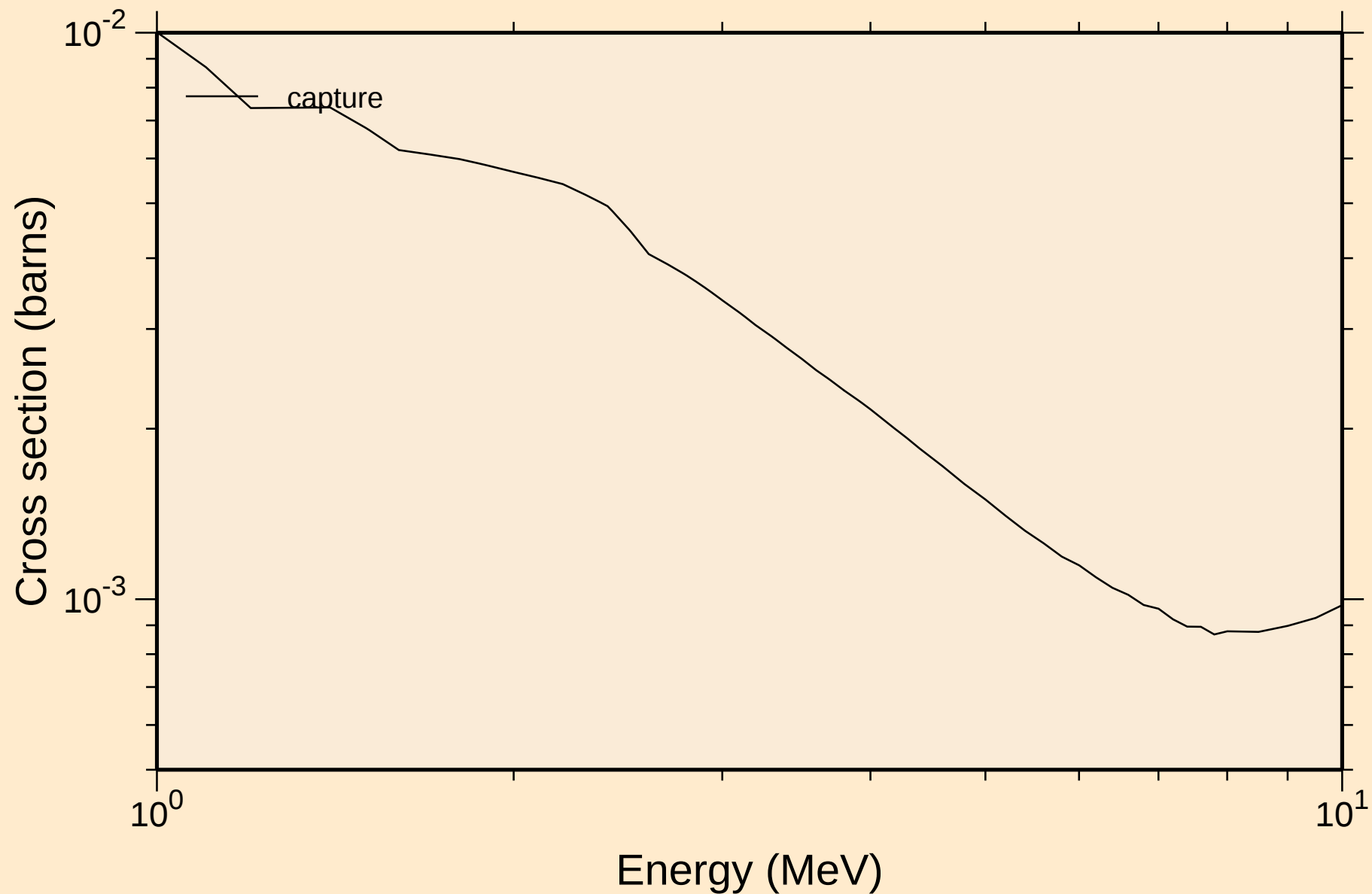
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

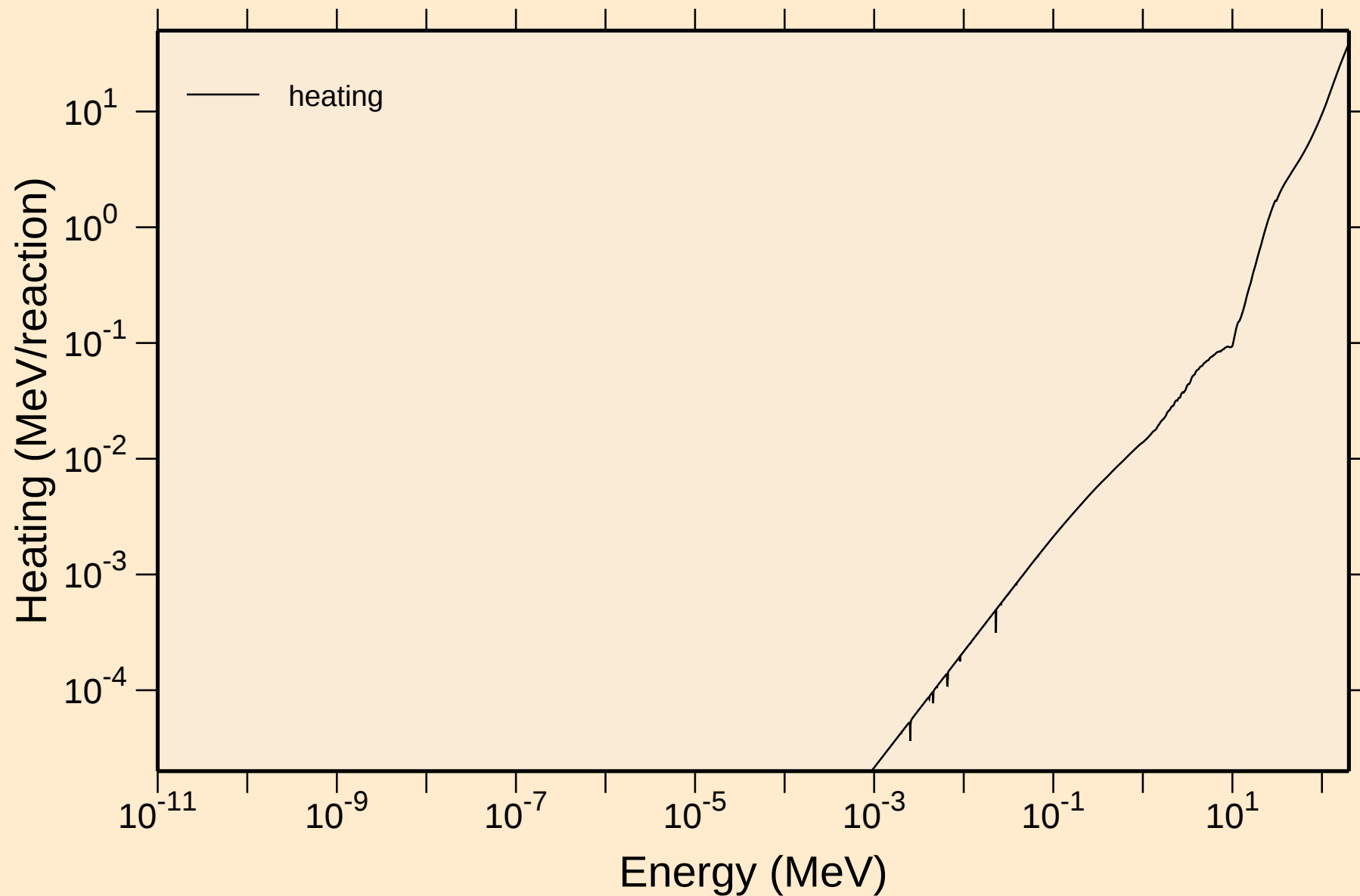


ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



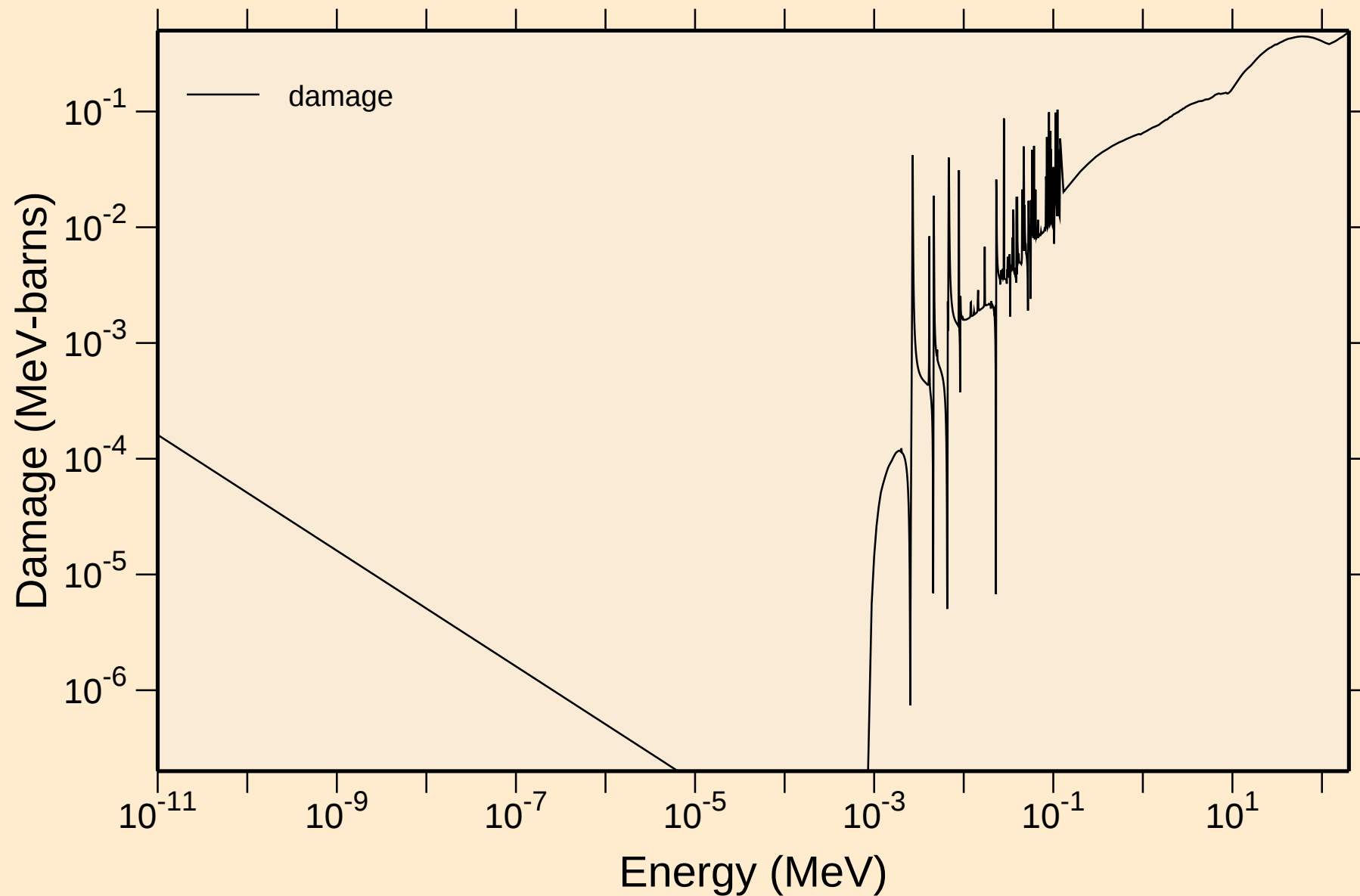
# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Heating

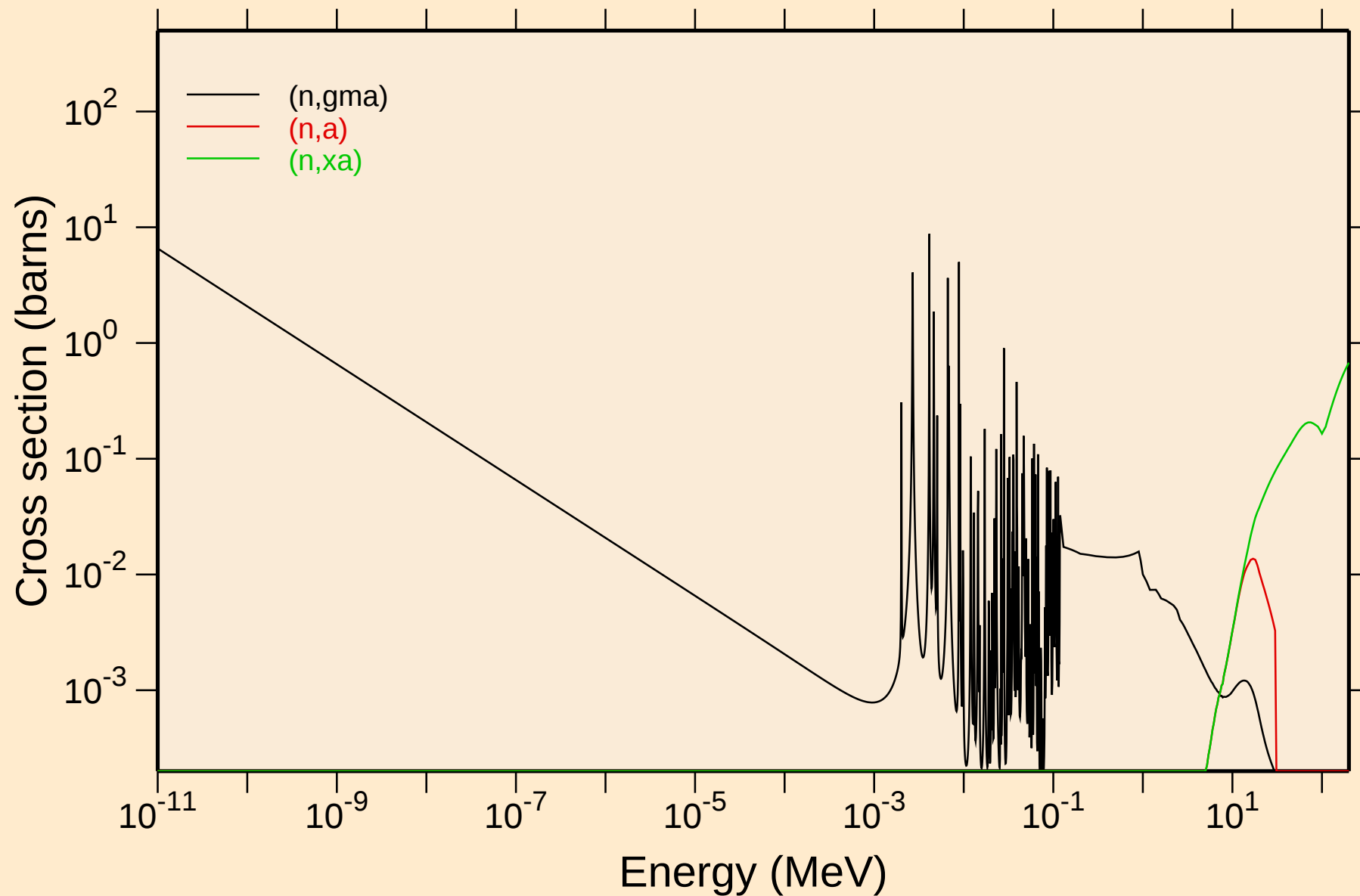


# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Damage

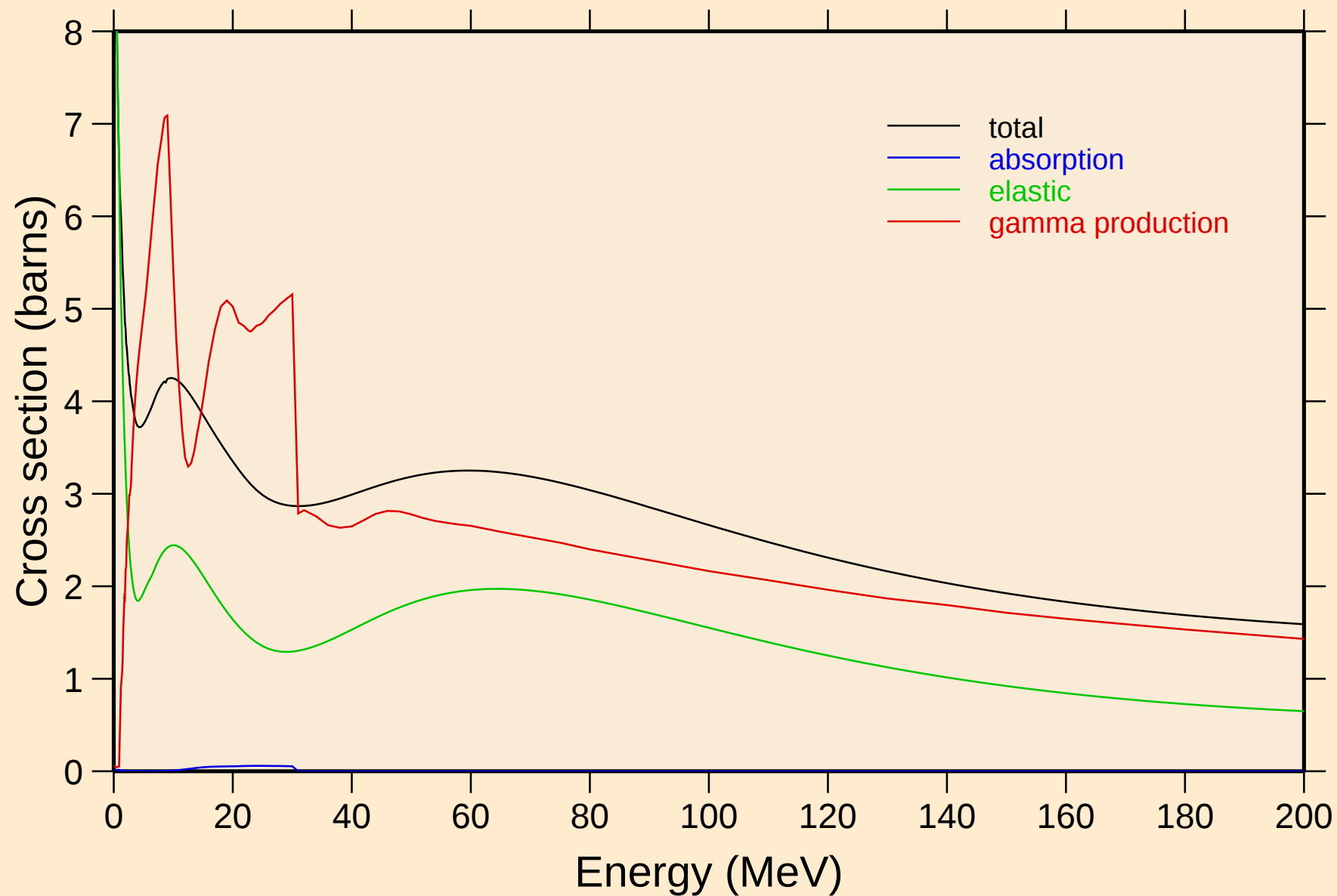


ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



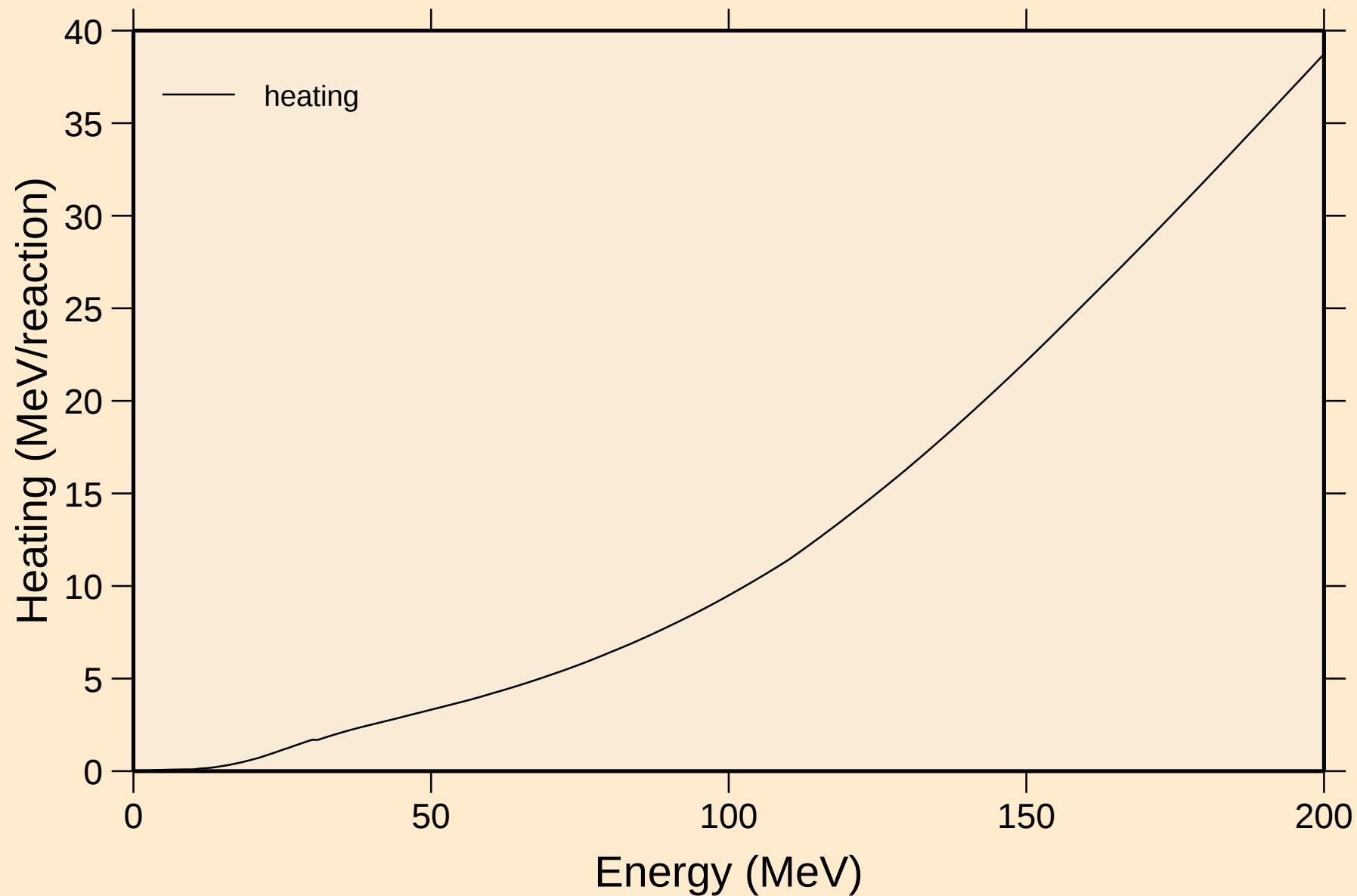
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## Principal cross sections



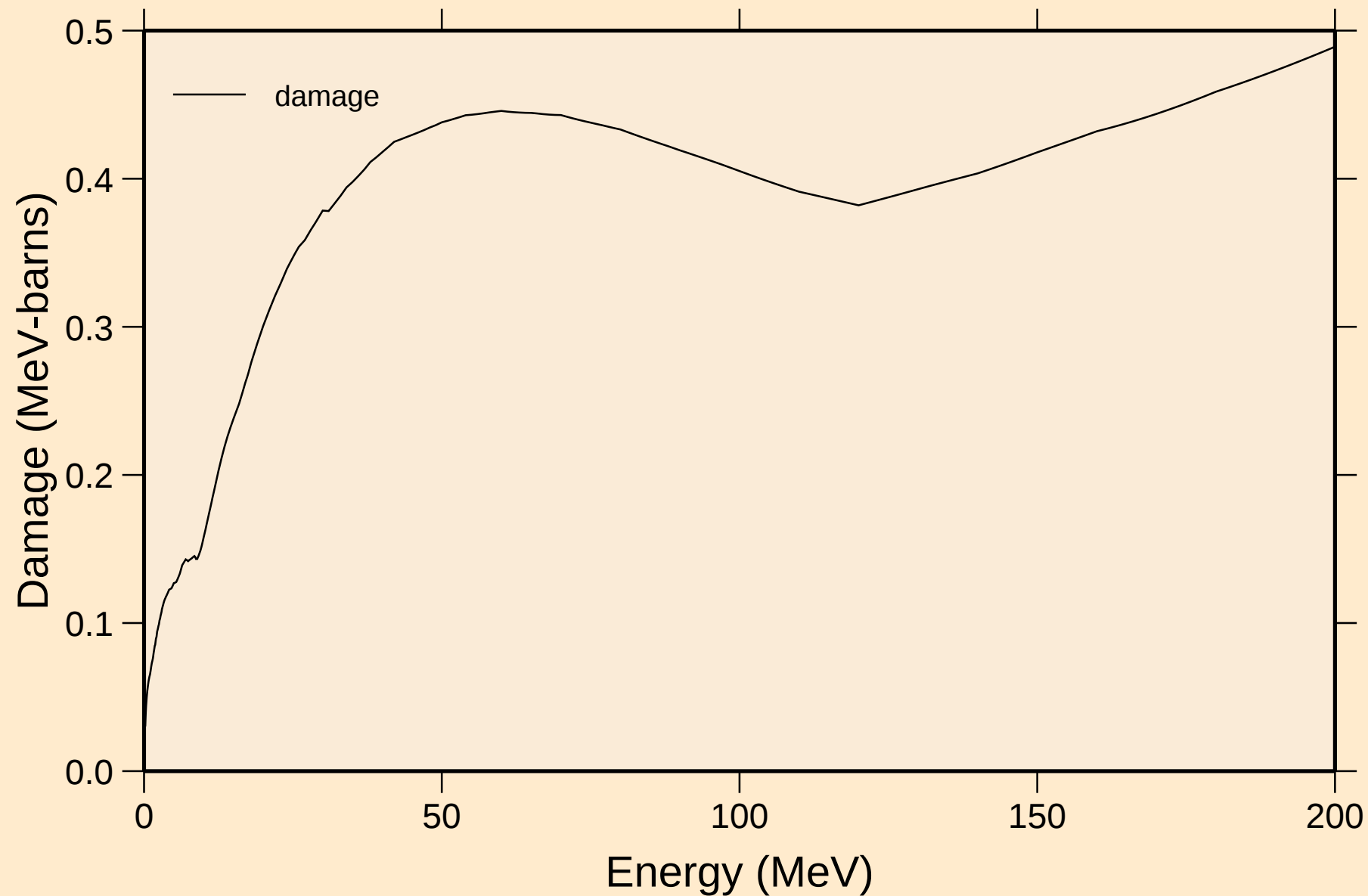
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Heating

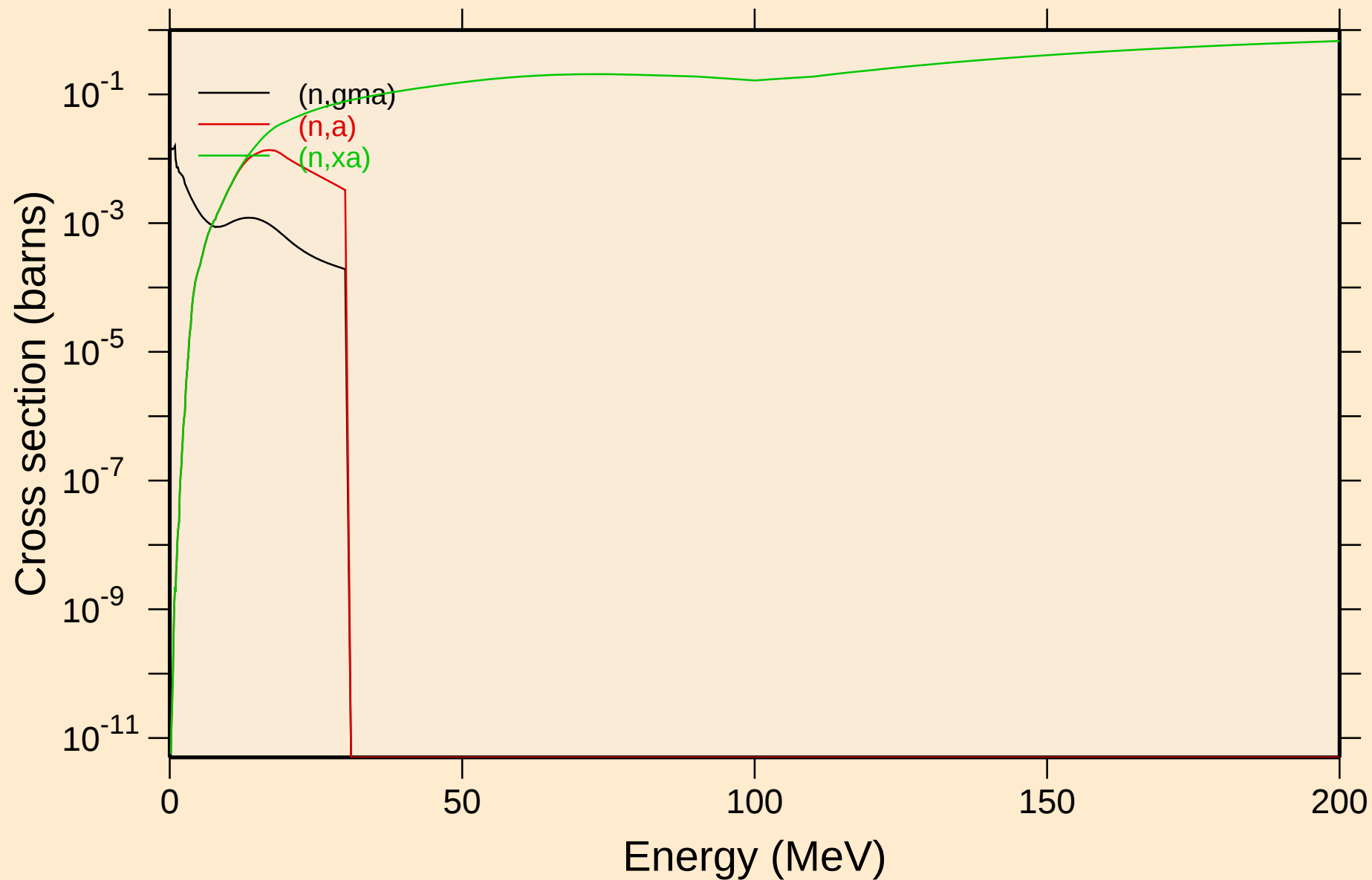


# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Damage

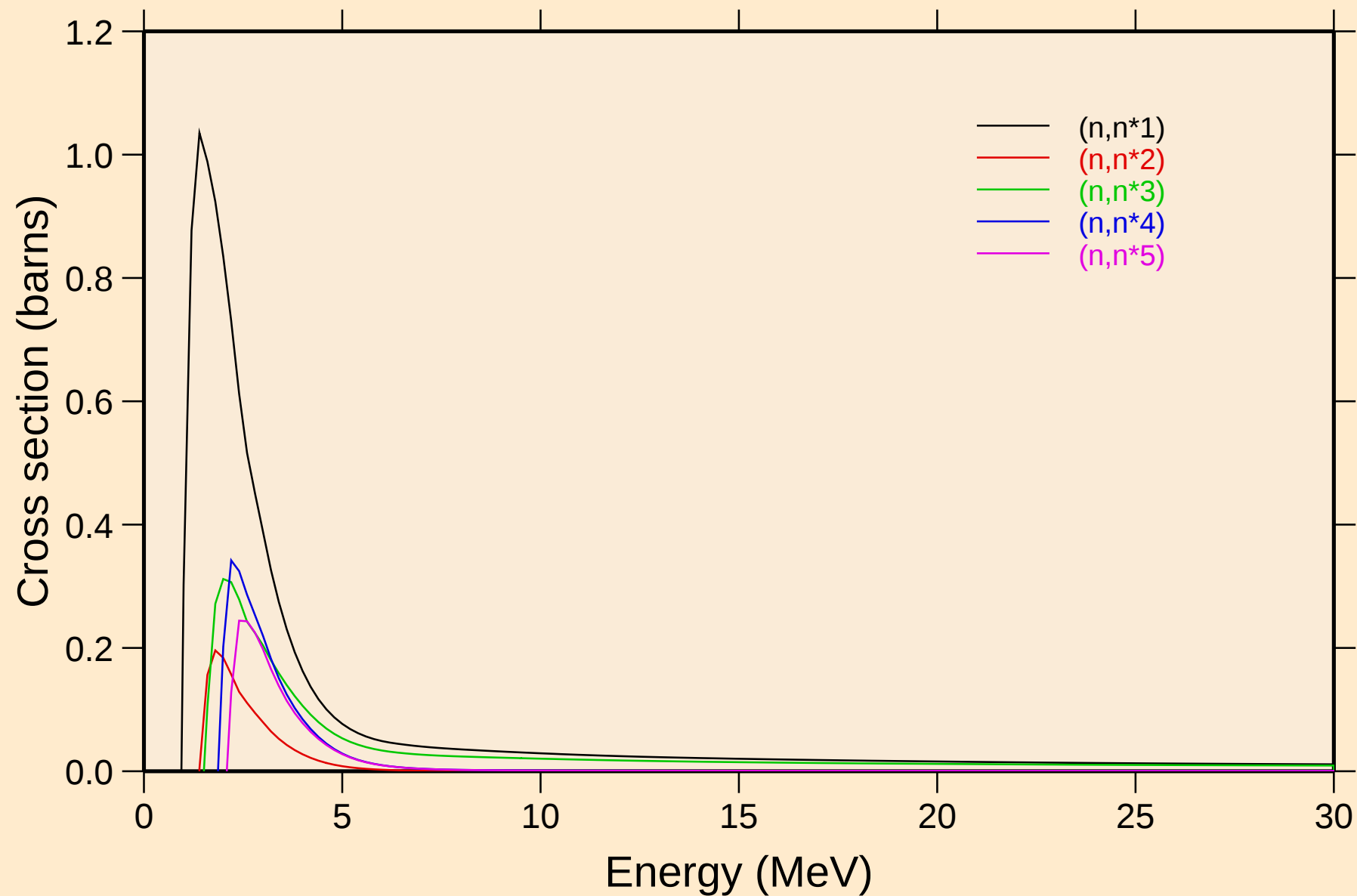


ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



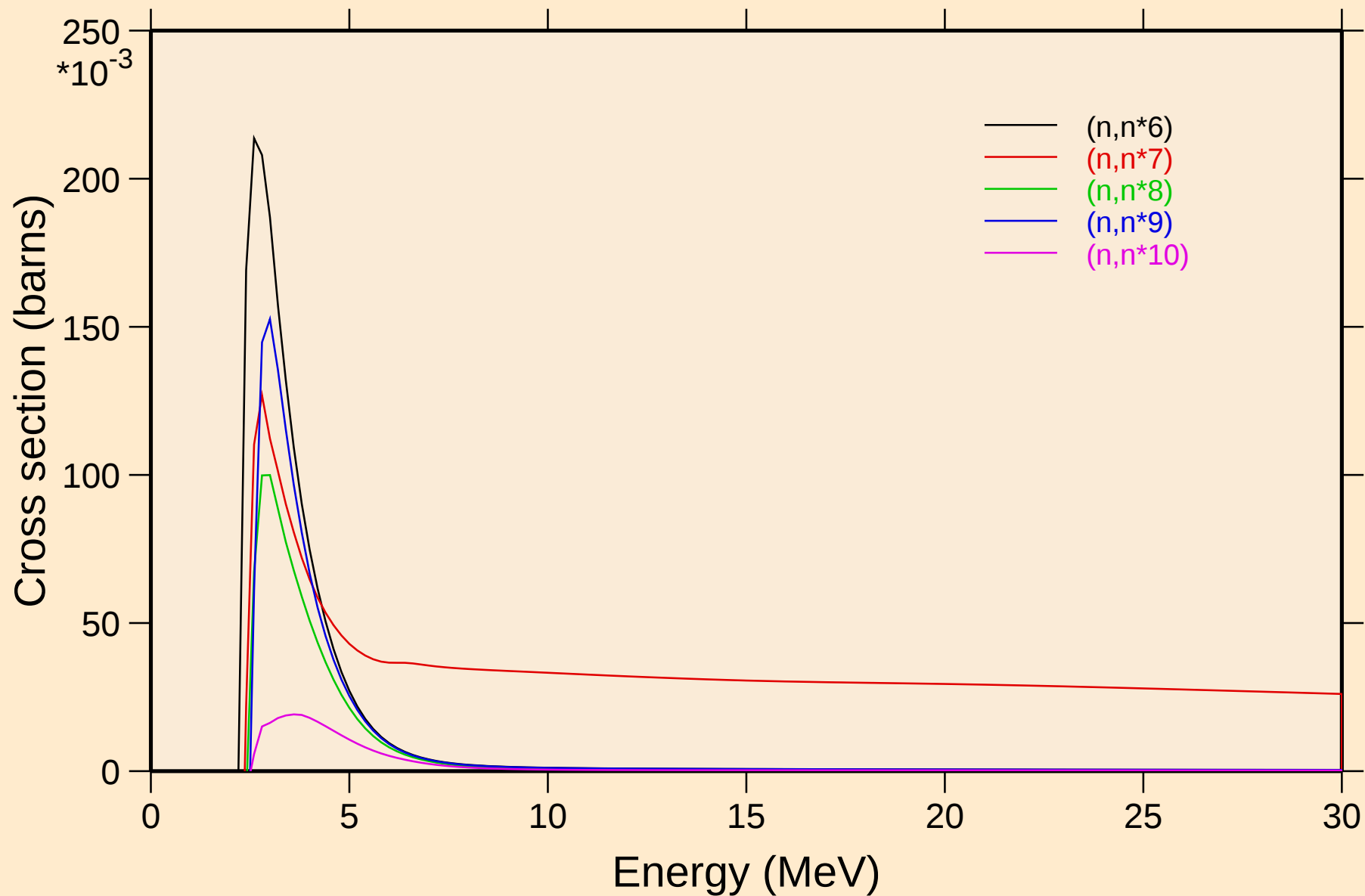
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## Inelastic levels



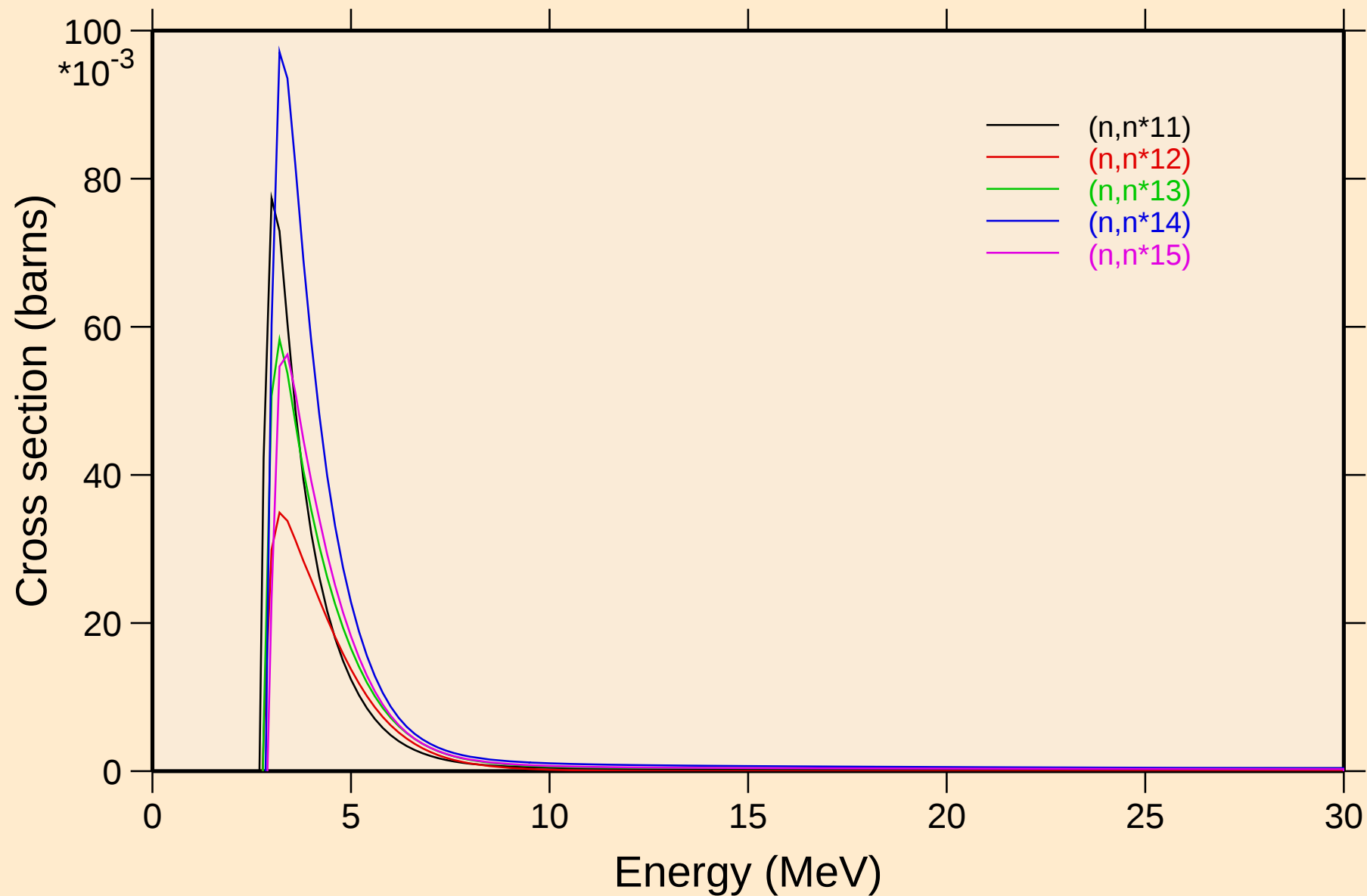
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## Inelastic levels



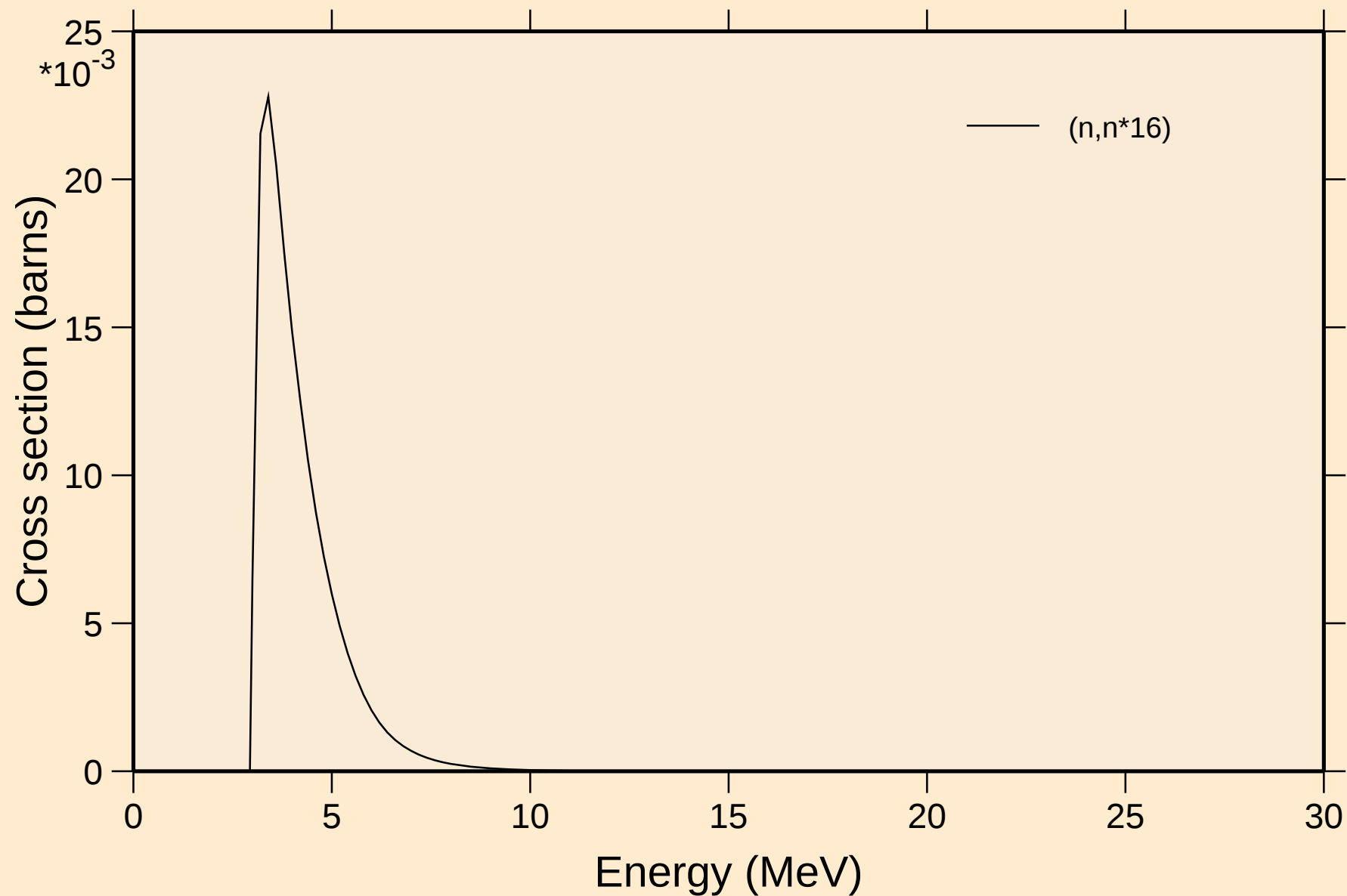
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Inelastic levels



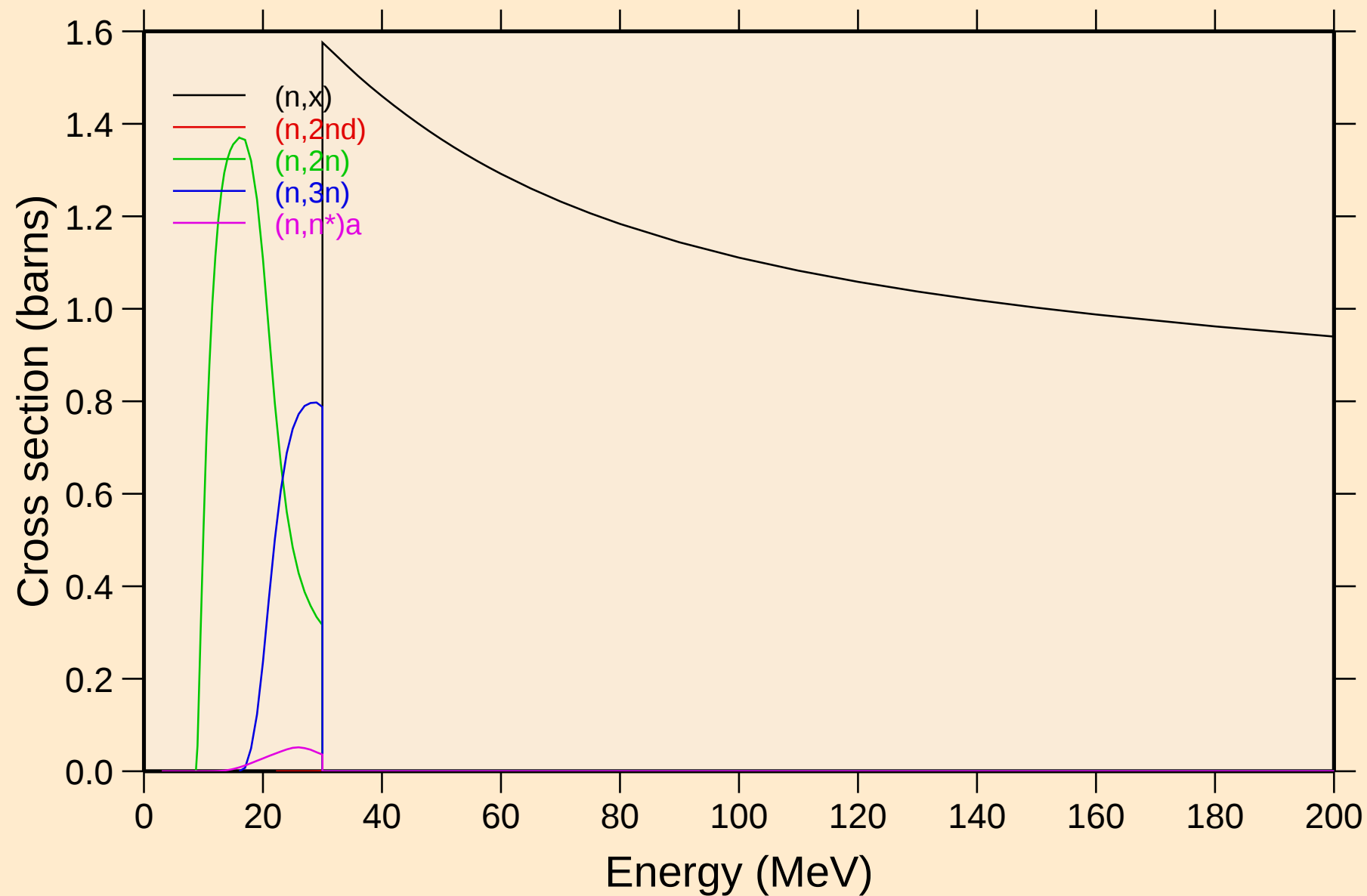
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Inelastic levels



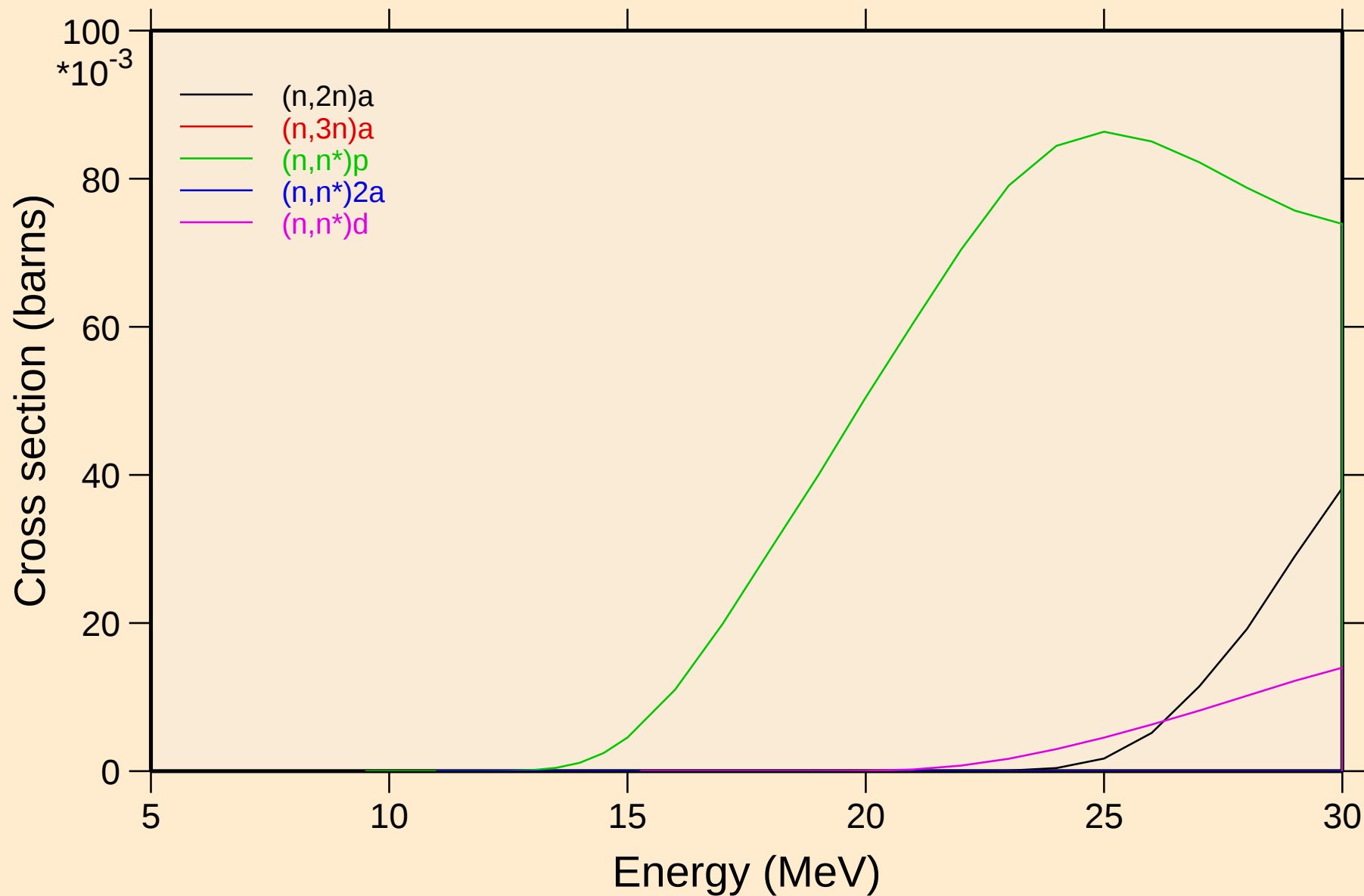
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## Threshold reactions



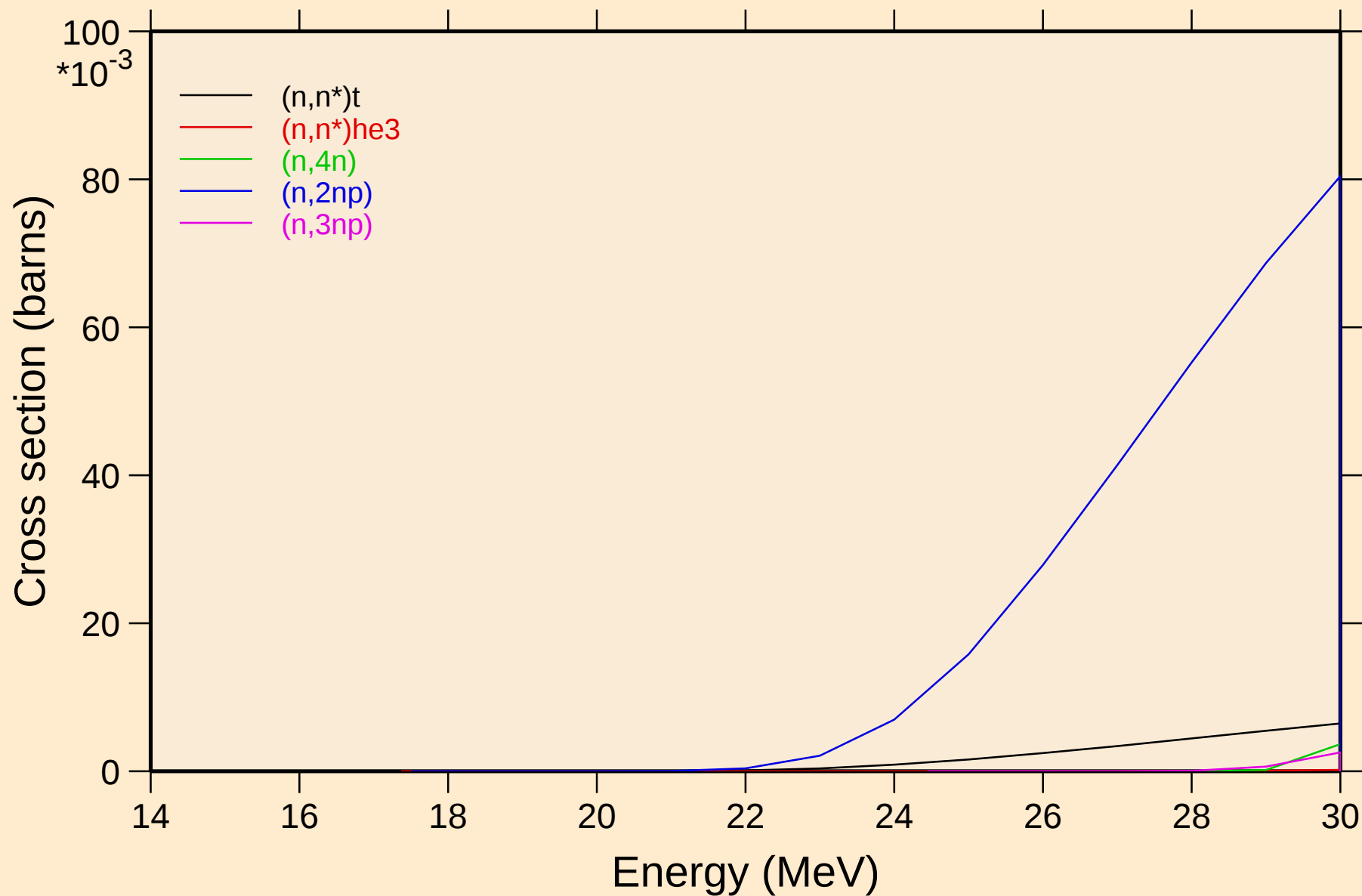
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## Threshold reactions



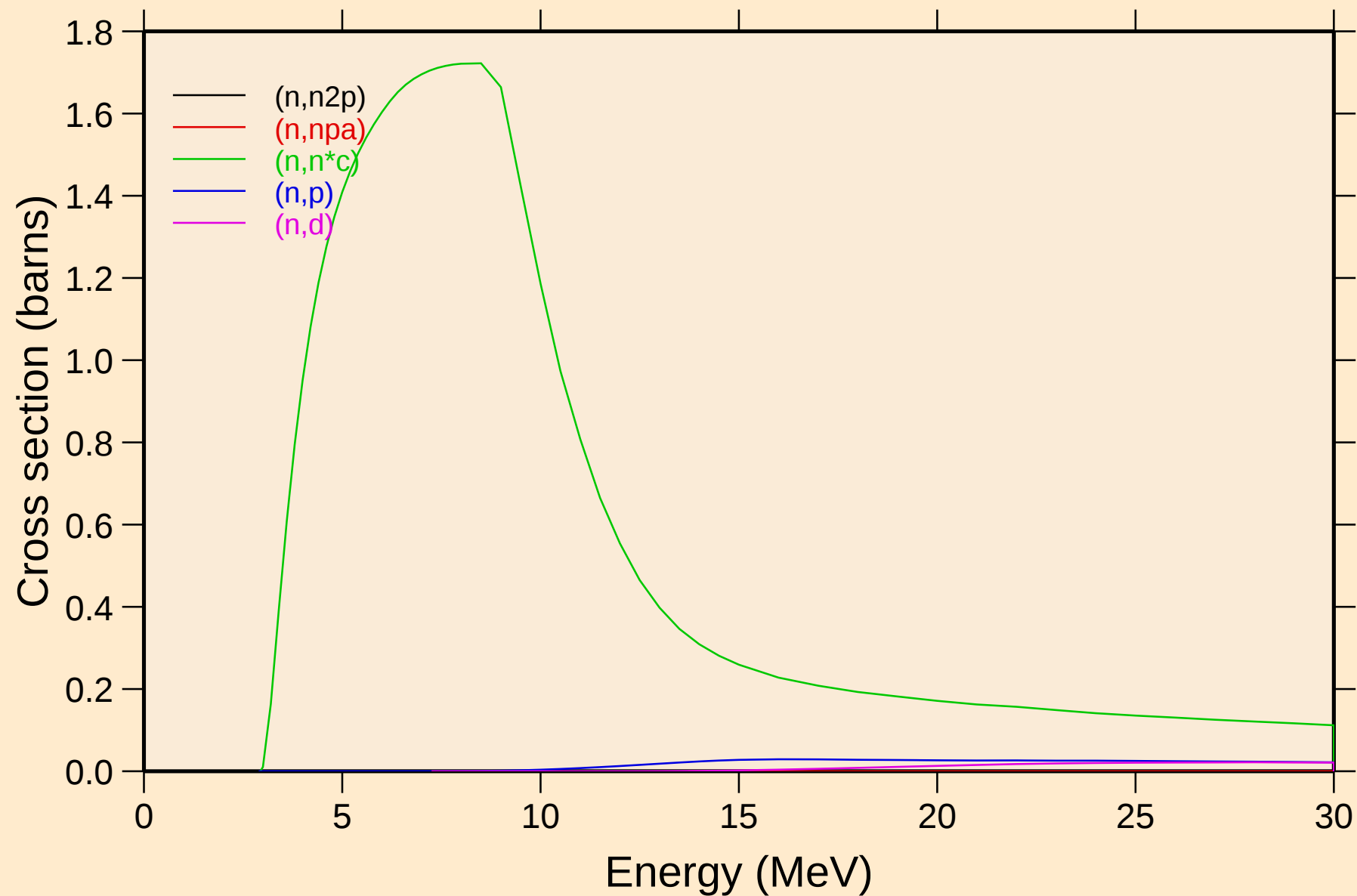
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## Threshold reactions



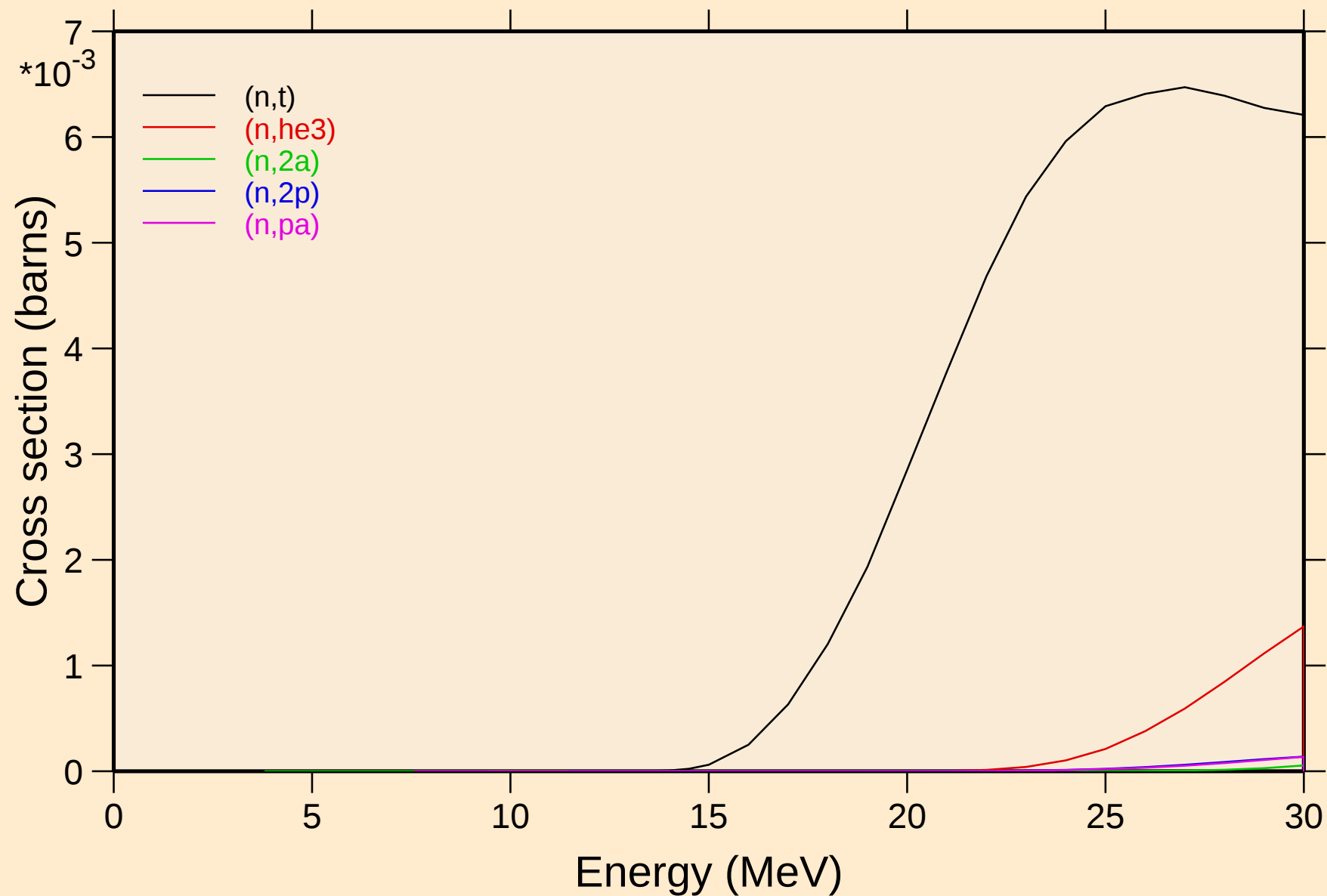
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## Threshold reactions



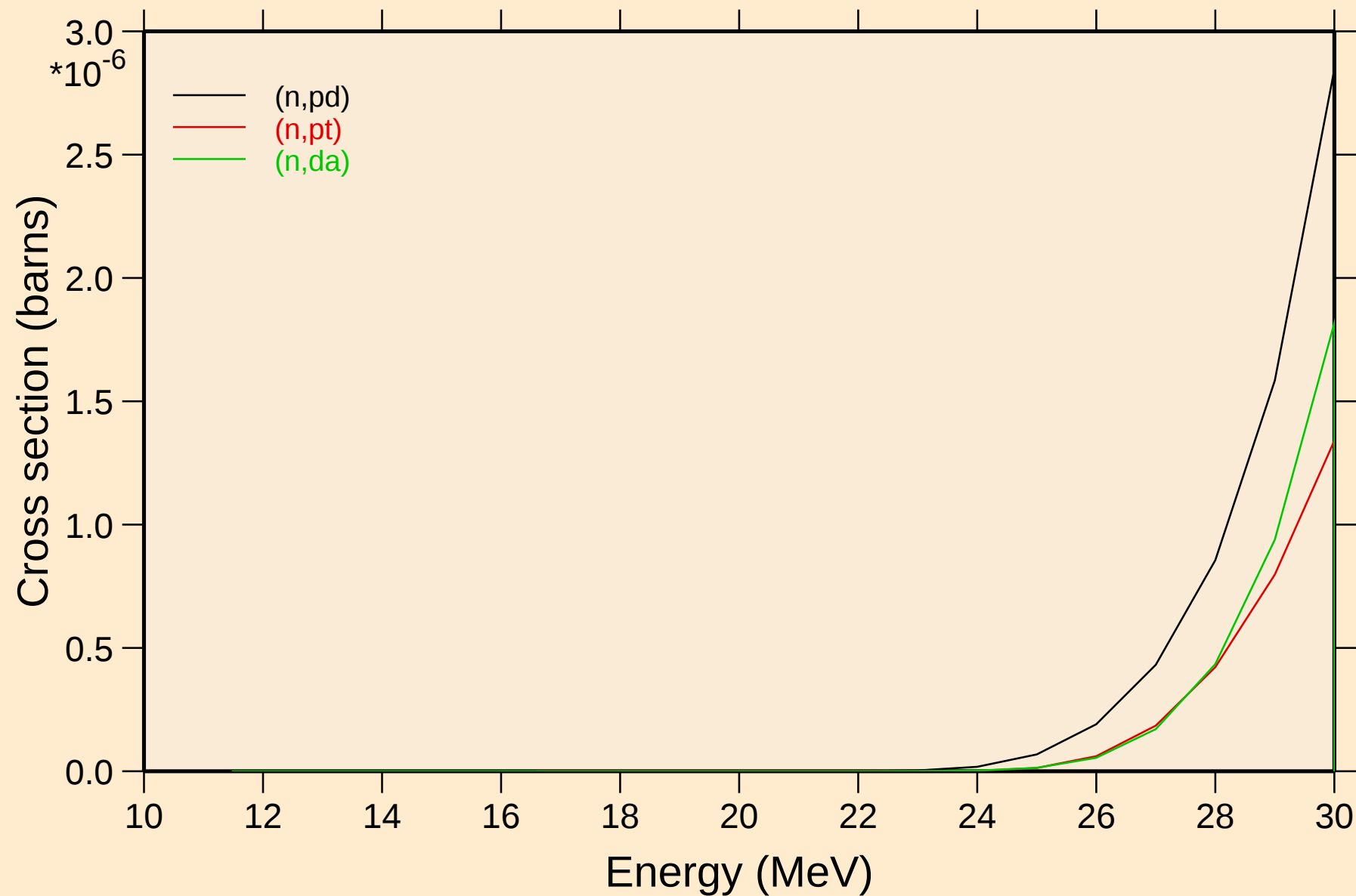
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## Threshold reactions



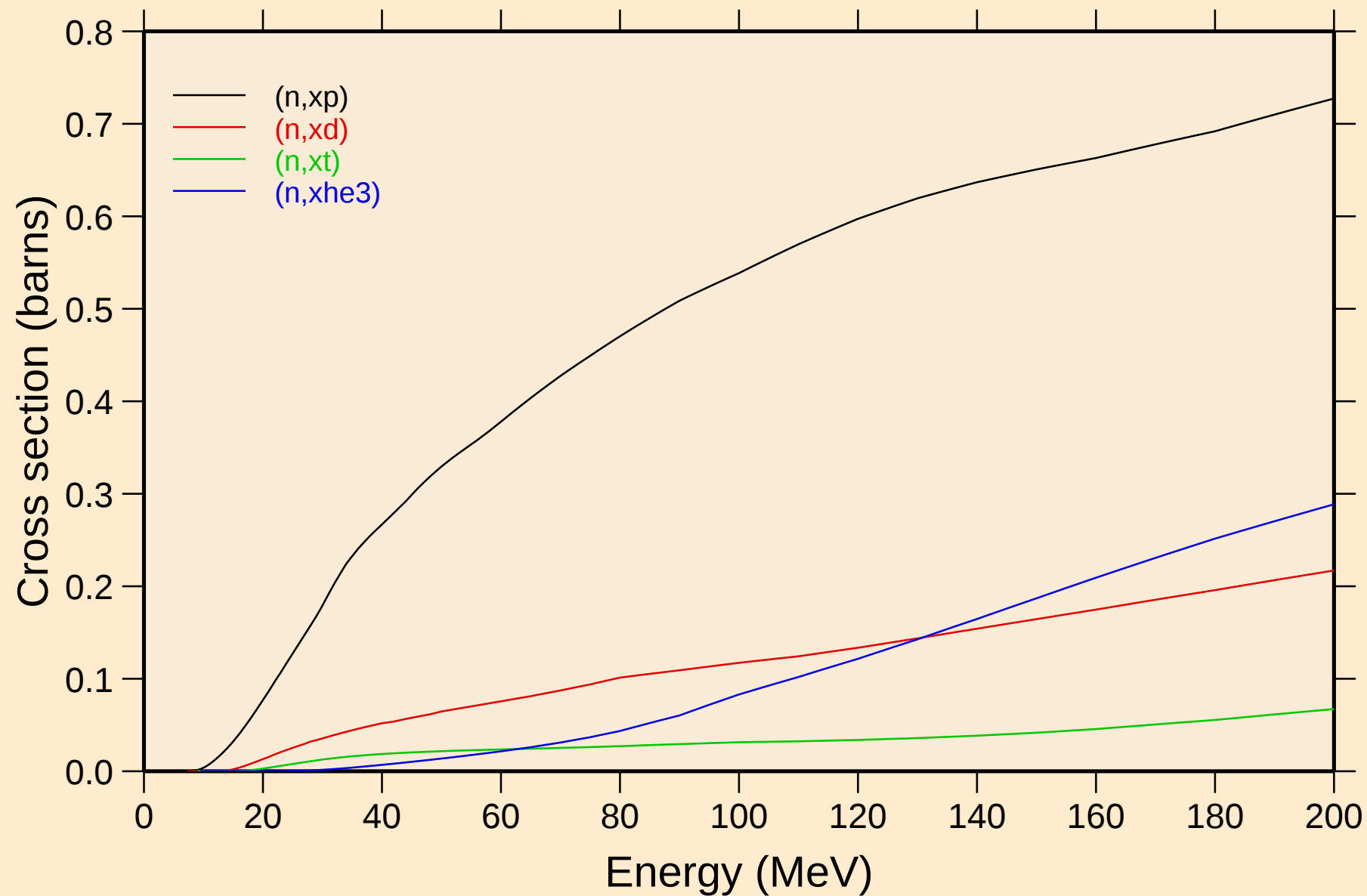
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## Threshold reactions

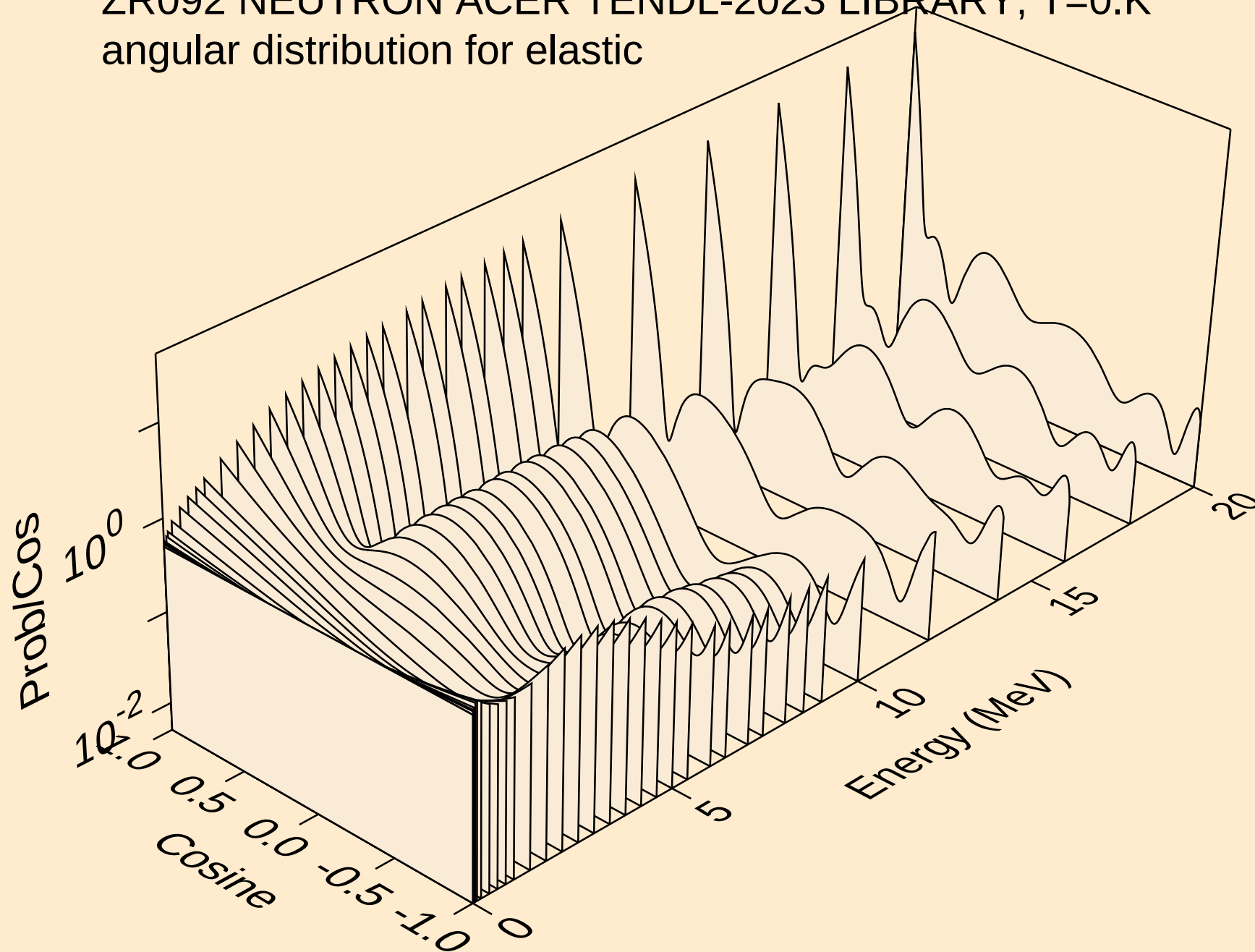


# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

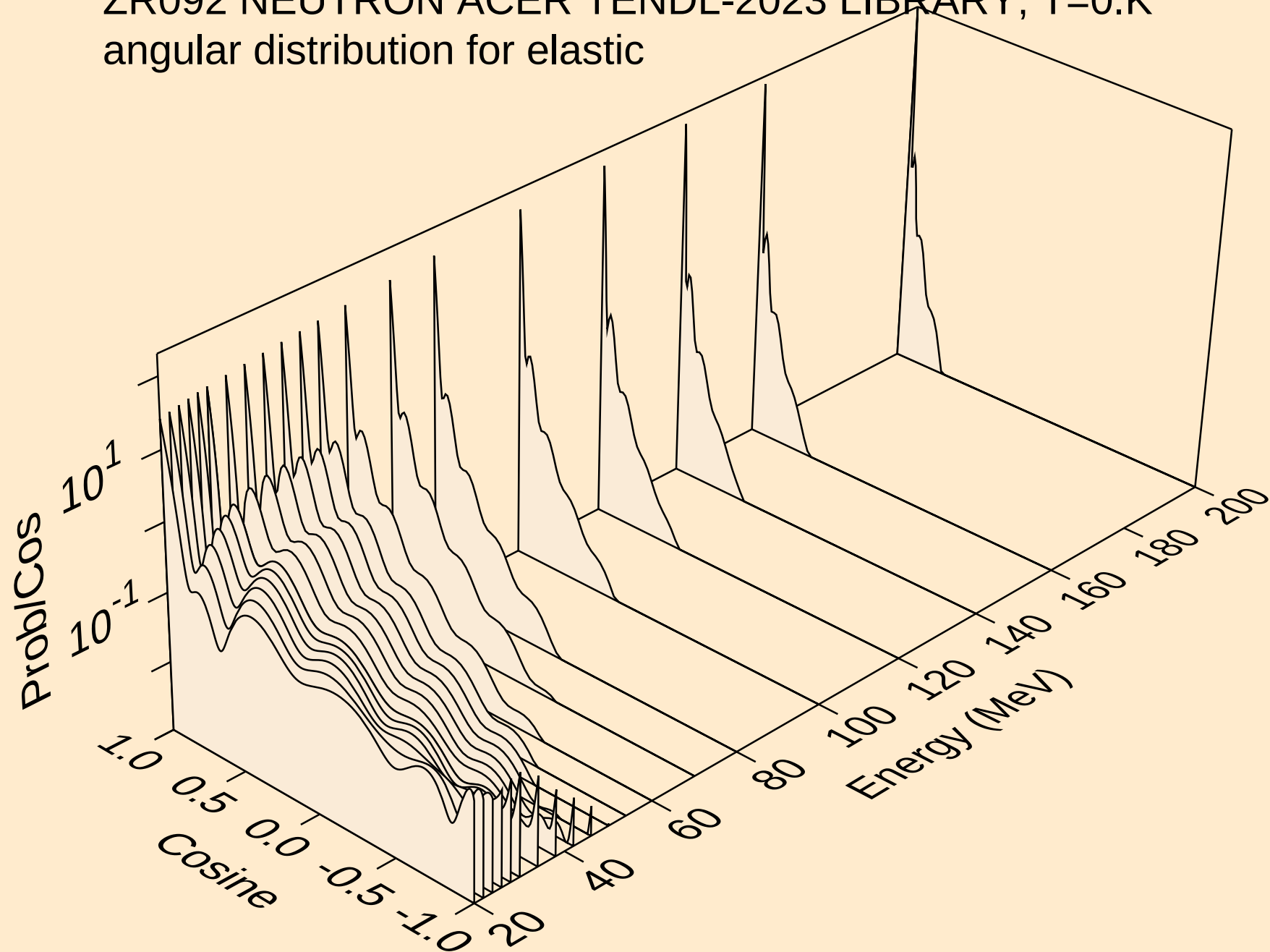
Threshold reactions



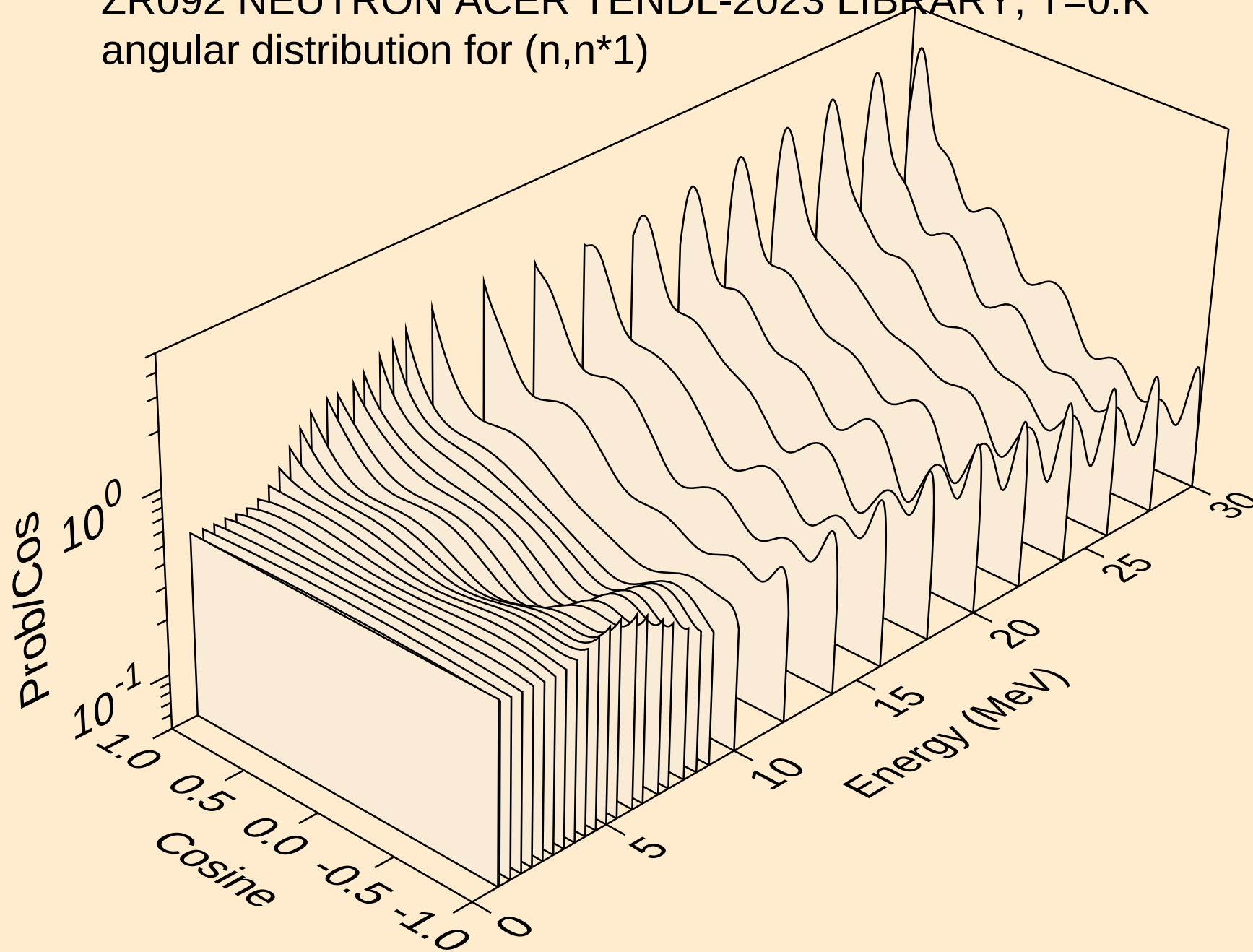
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



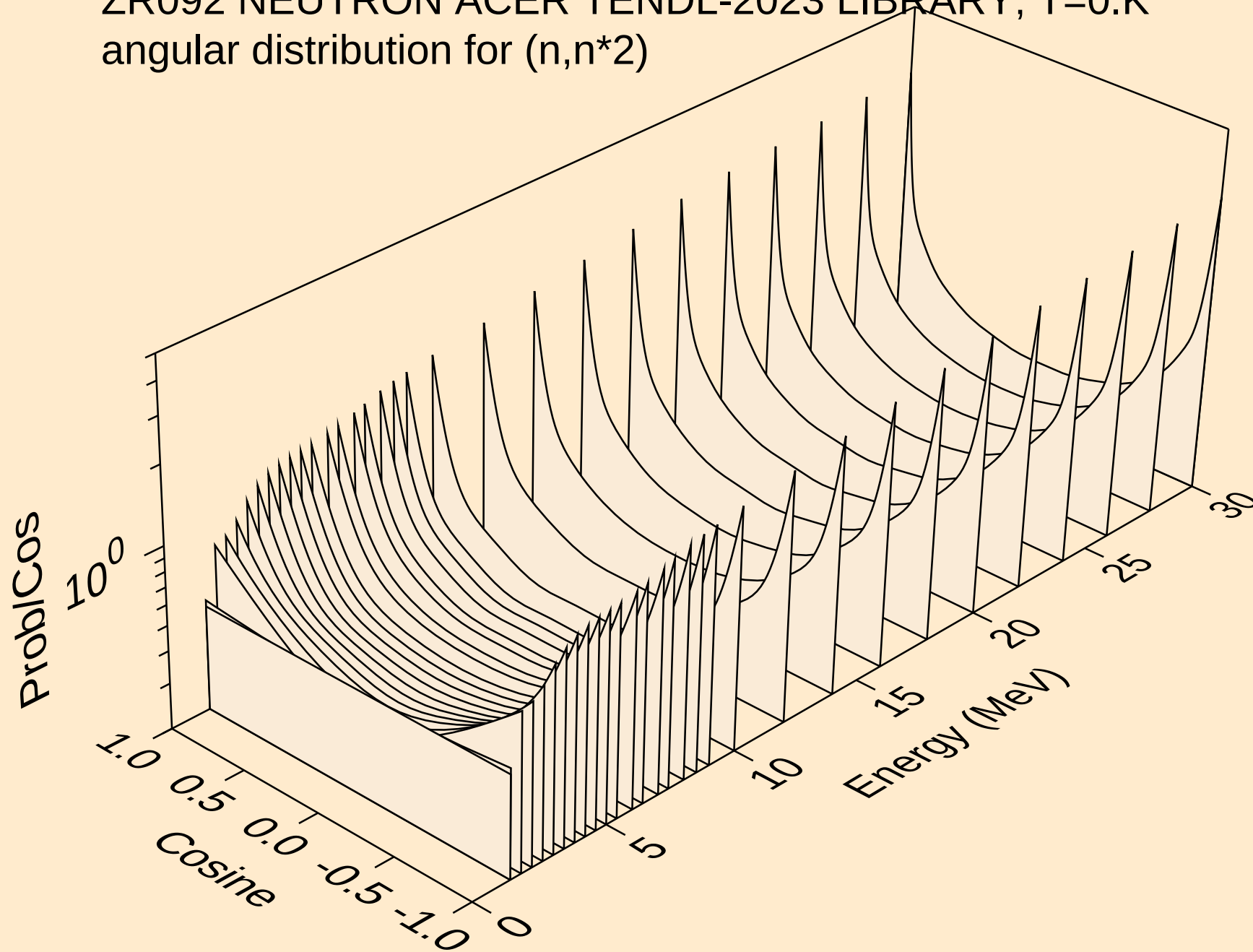
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angular distribution for elastic



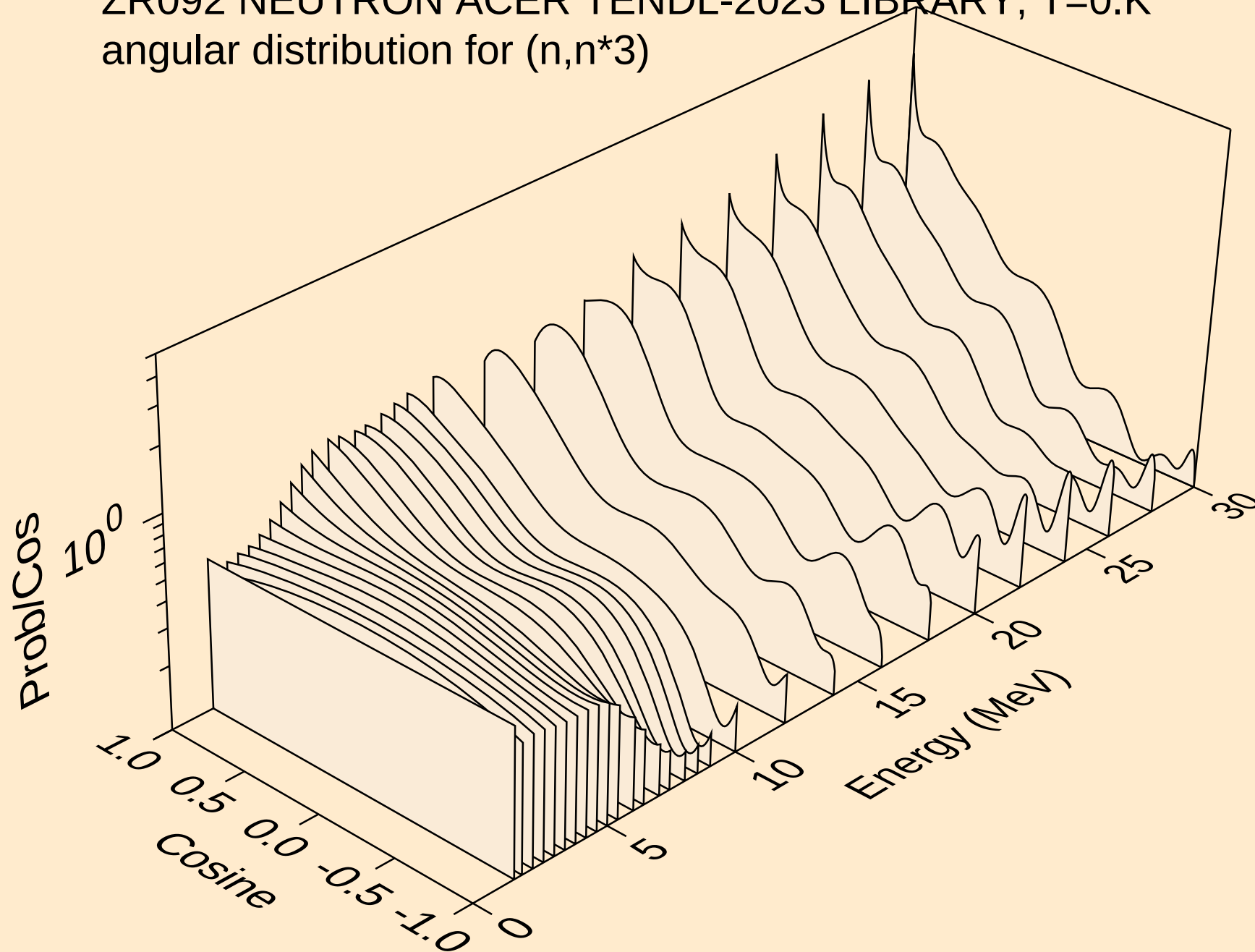
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angular distribution for (n,n\*1)



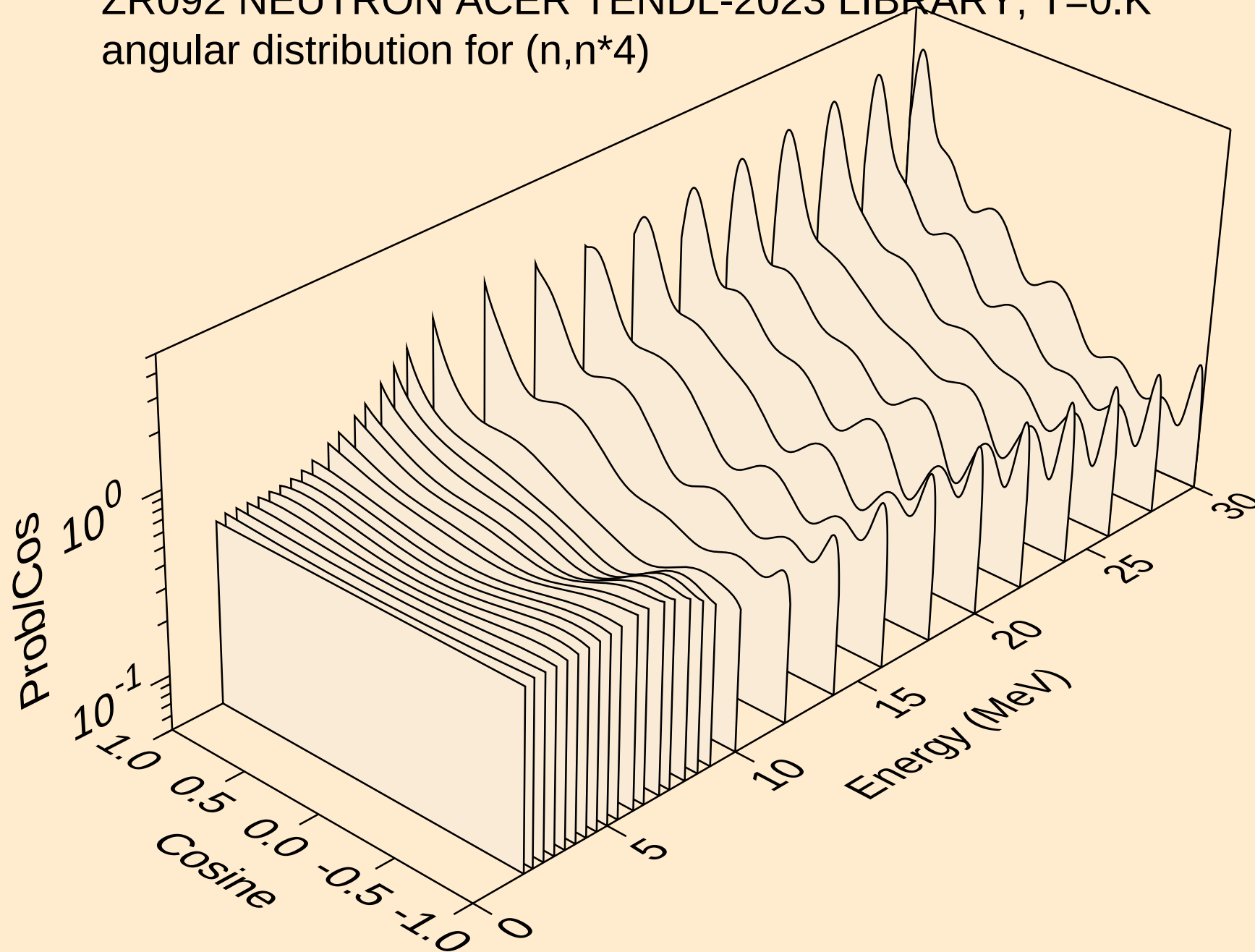
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angular distribution for (n,n\*2)



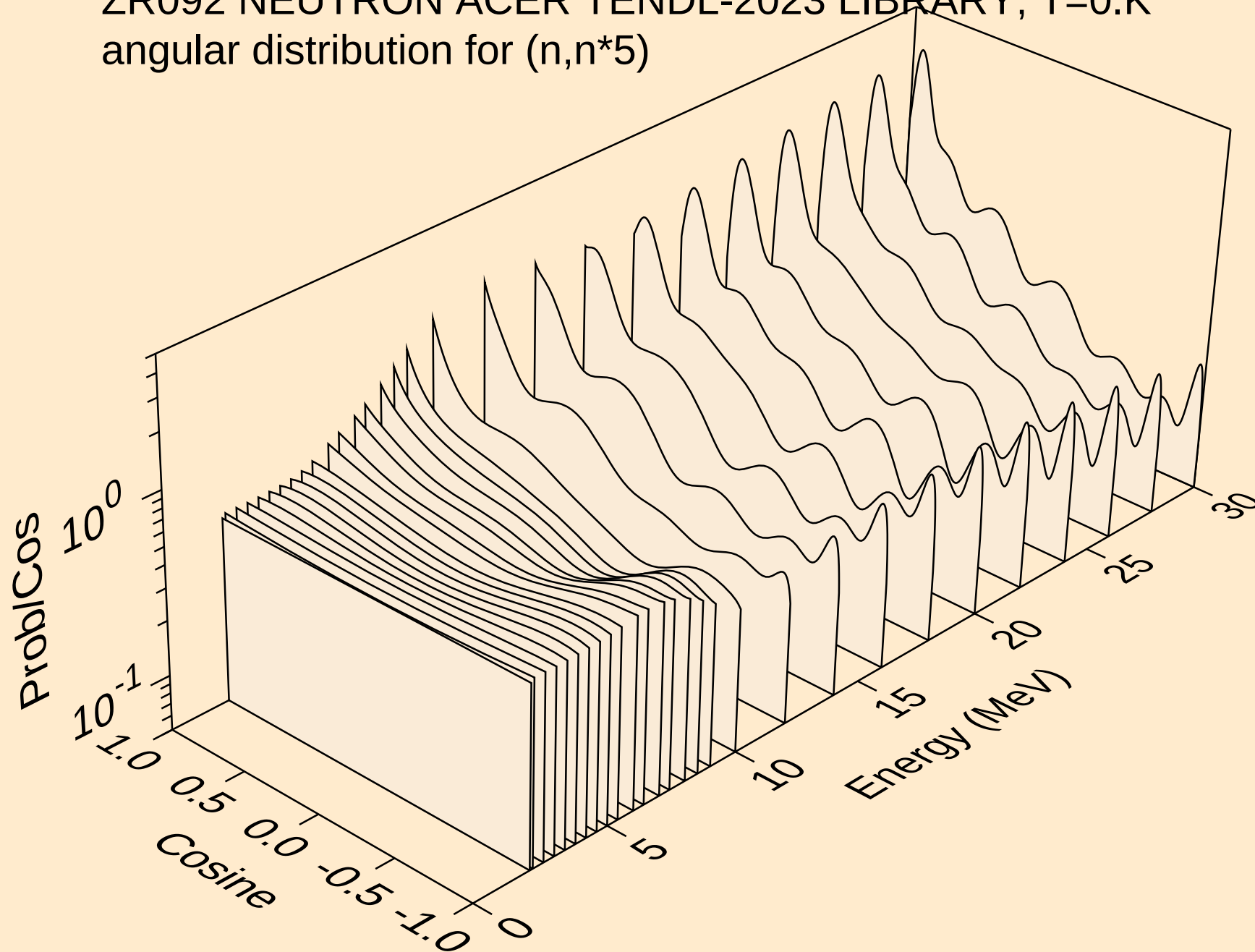
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angular distribution for (n,n\*3)



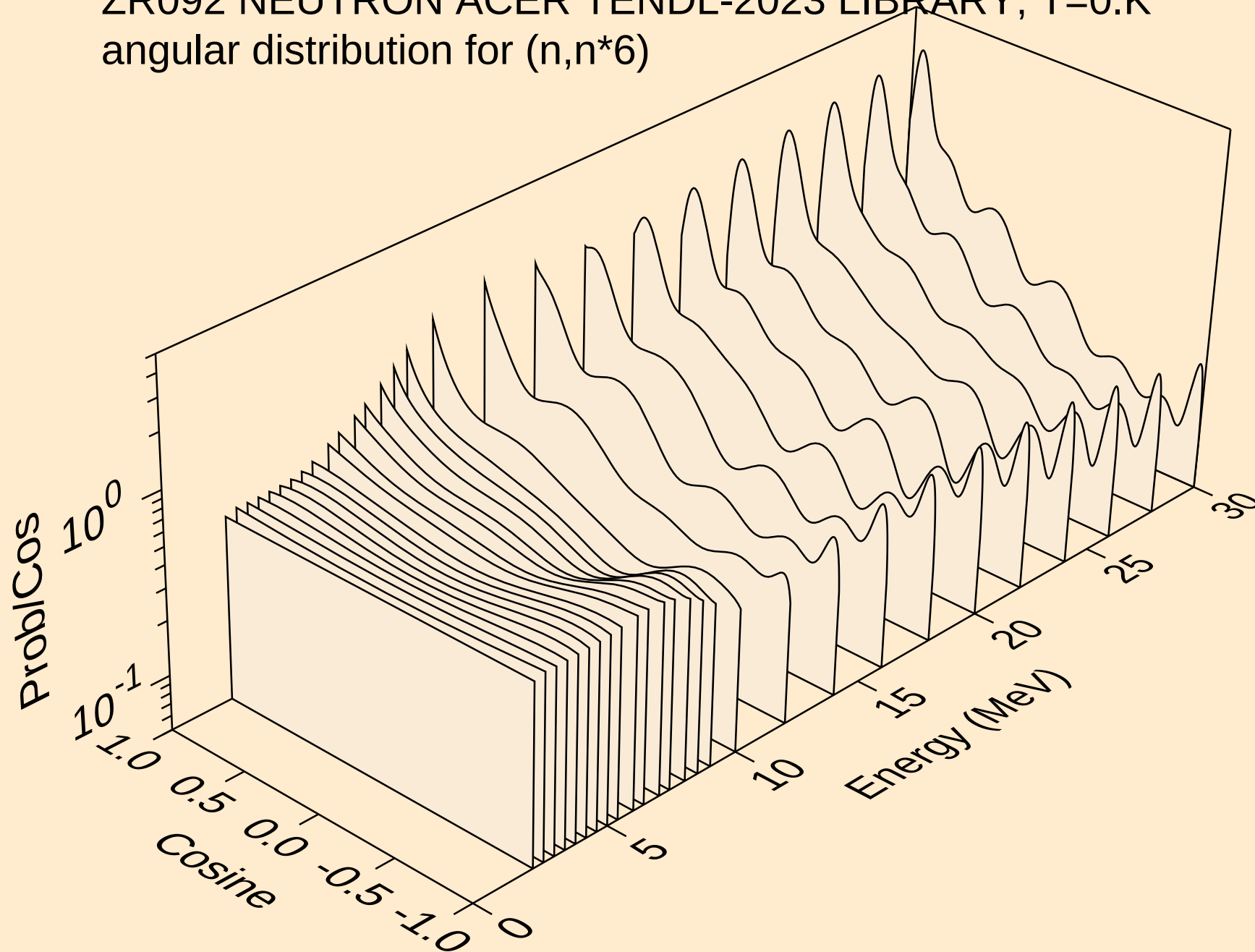
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angular distribution for (n,n\*4)



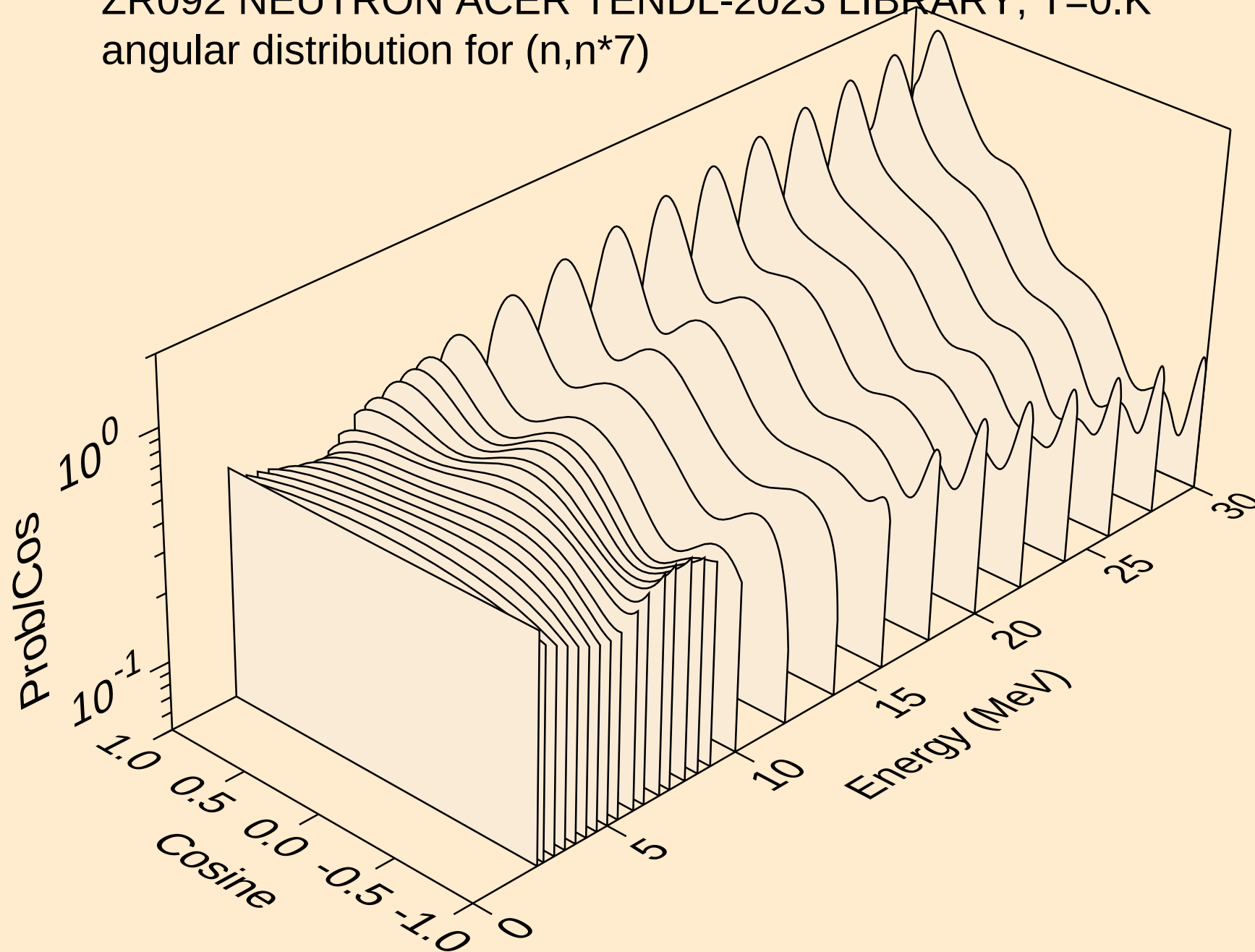
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angular distribution for (n,n\*5)



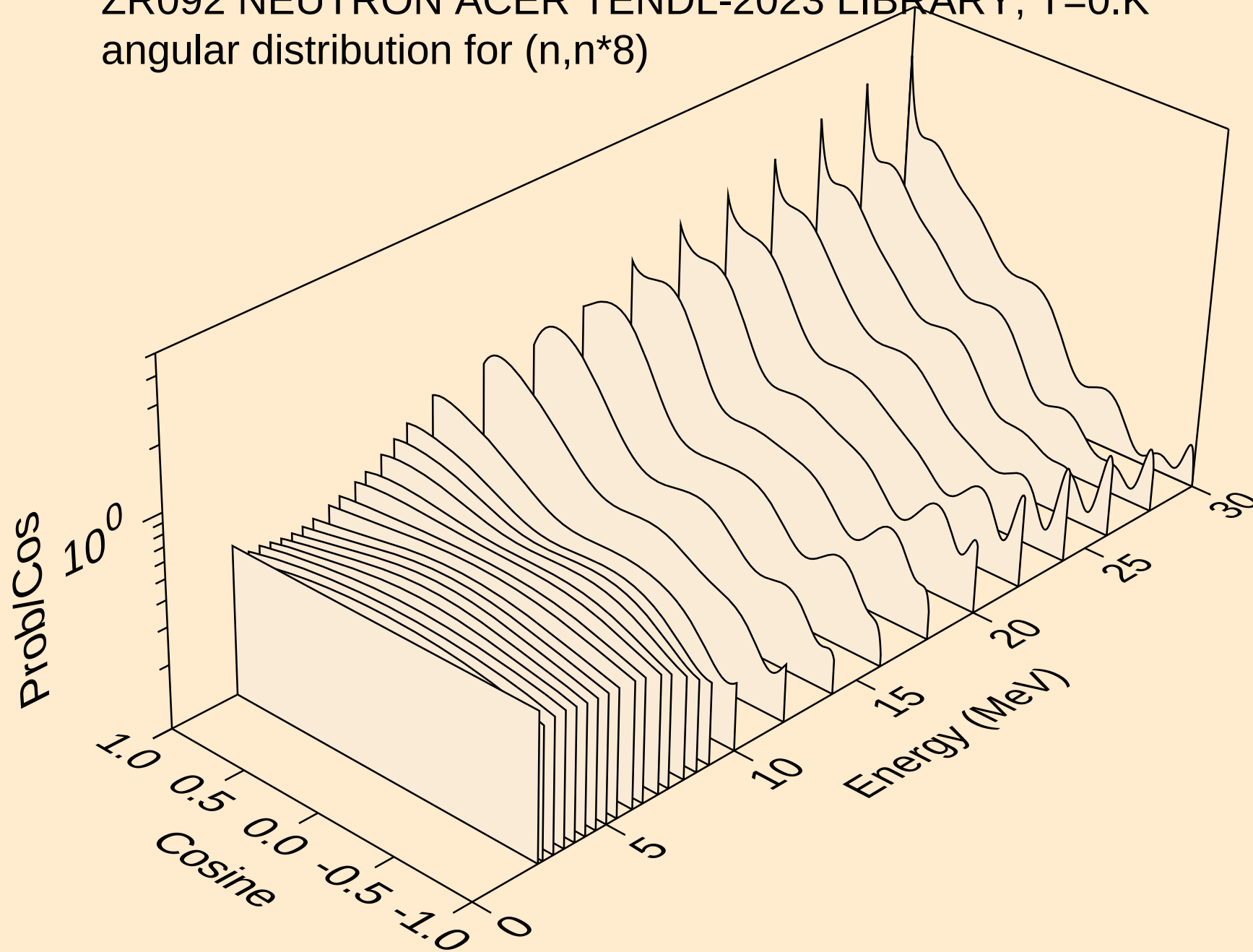
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angular distribution for (n,n\*6)



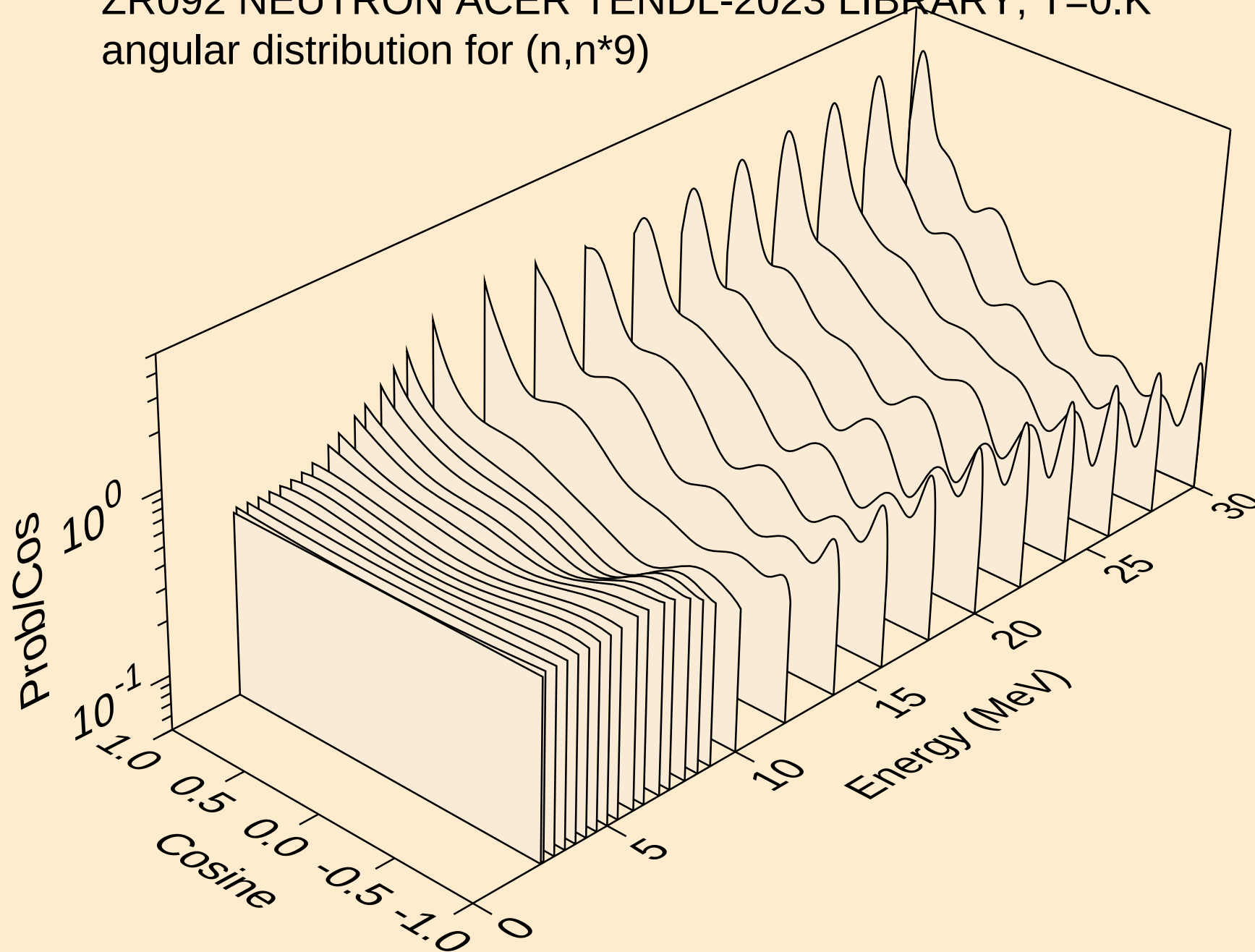
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angular distribution for (n,n\*7)



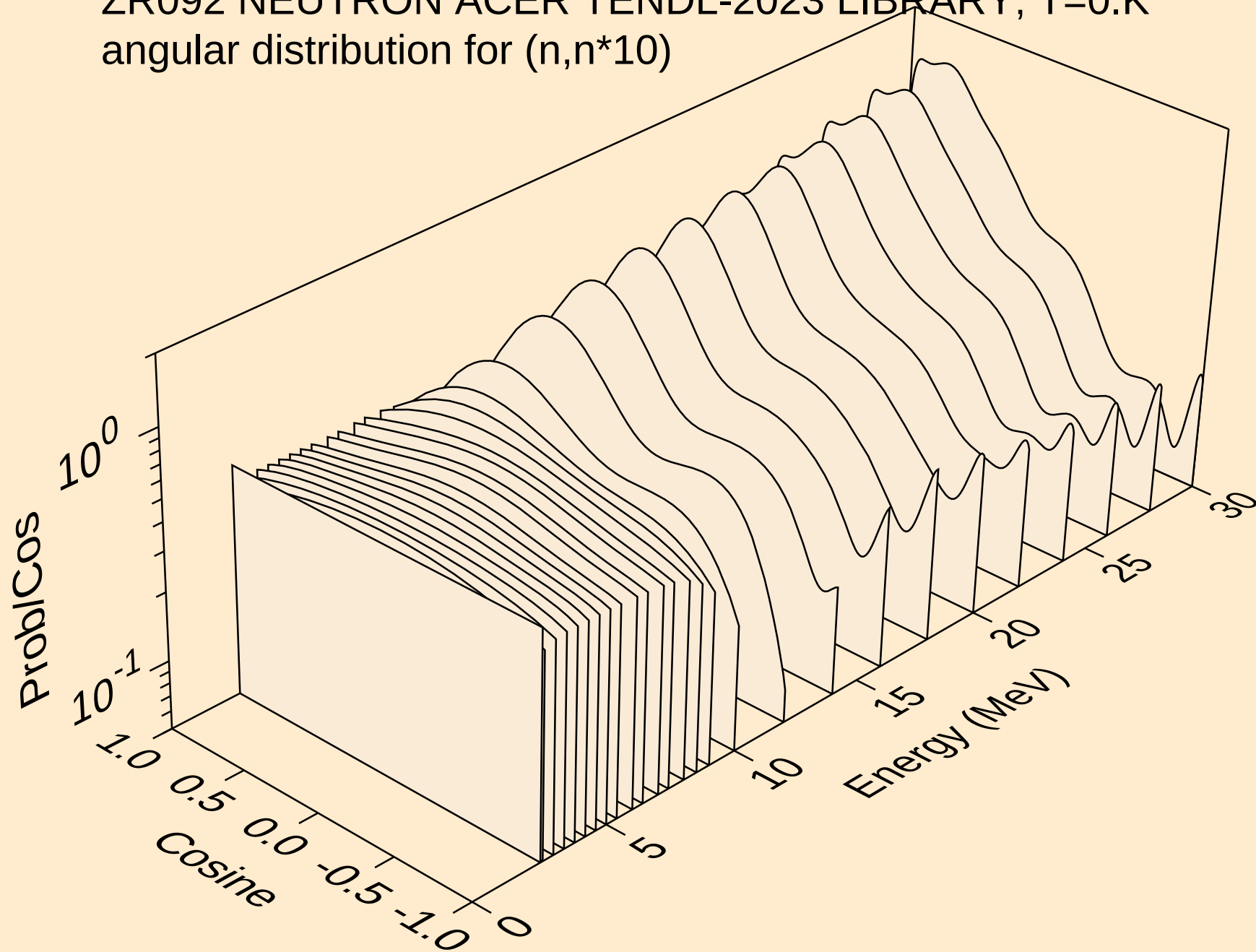
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angular distribution for (n,n\*8)



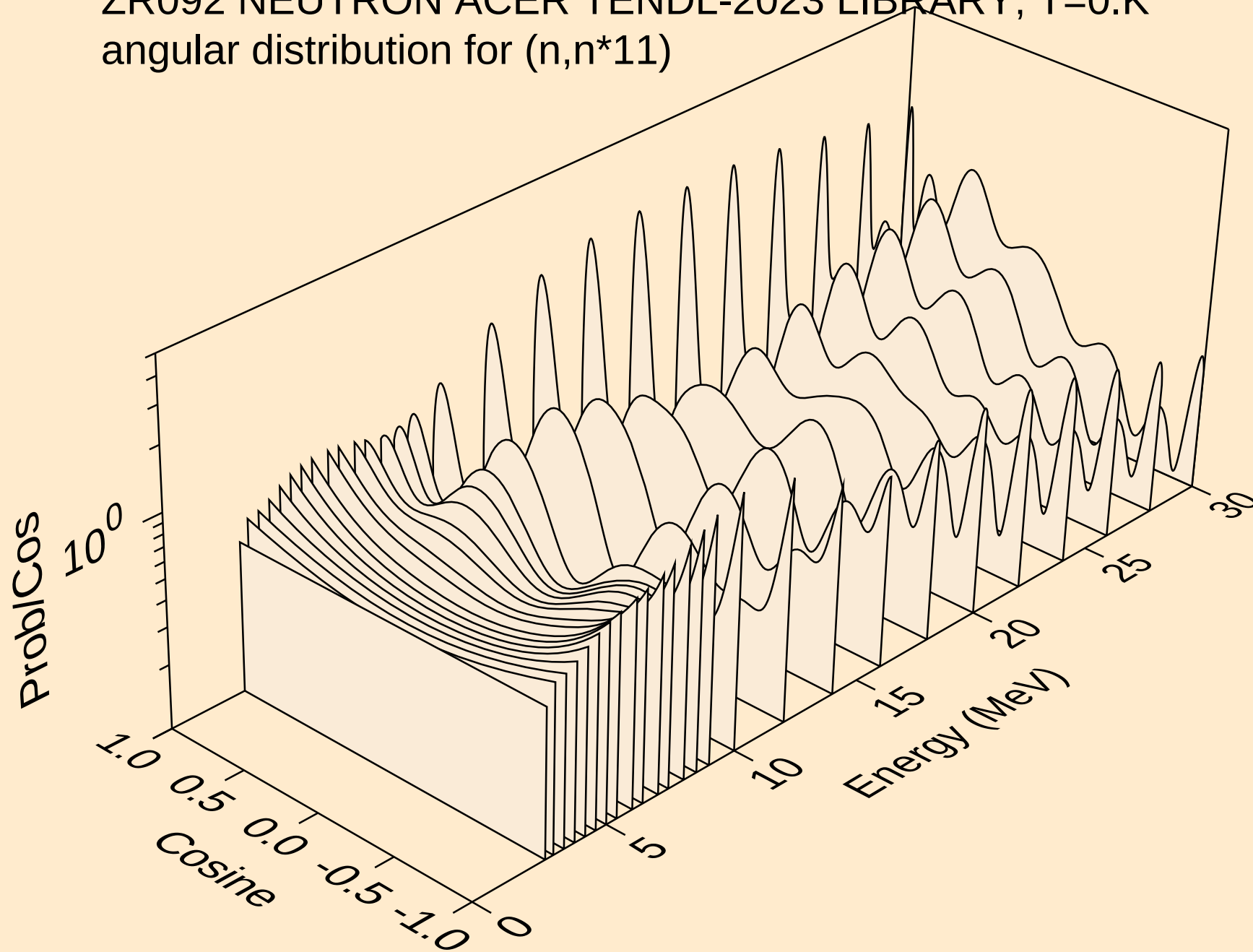
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angular distribution for (n,n\*9)



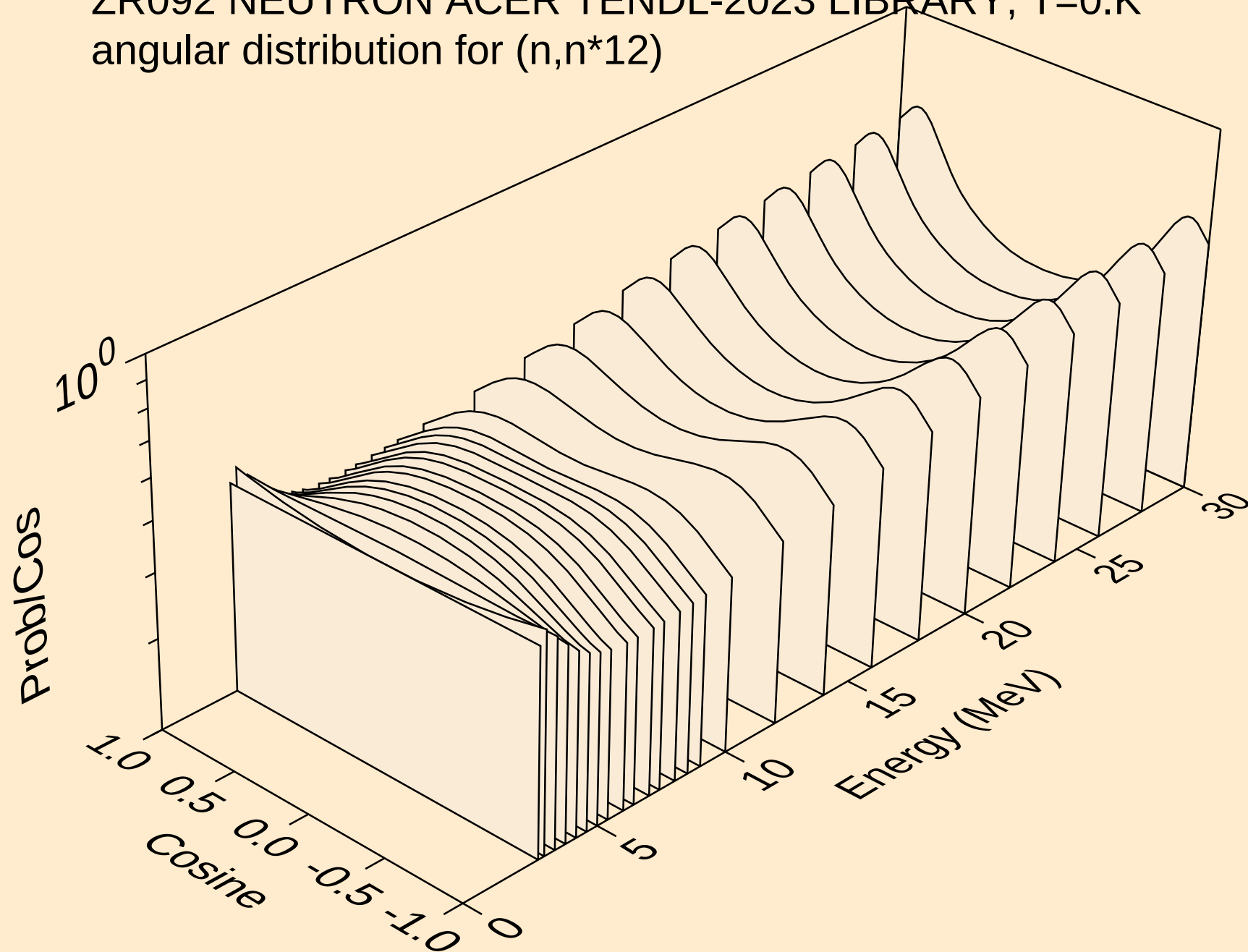
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angular distribution for (n,n\*10)



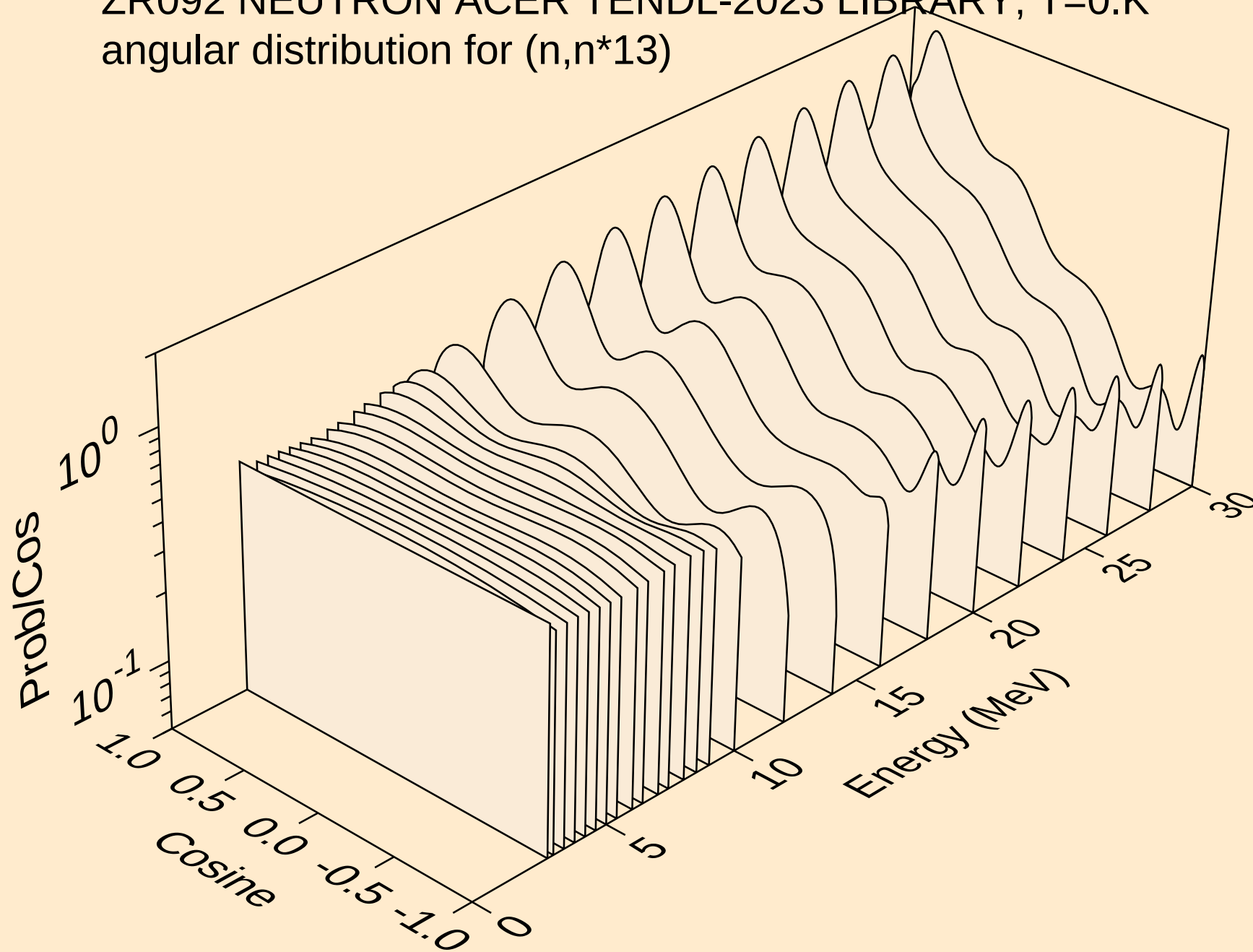
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angular distribution for (n,n\*11)



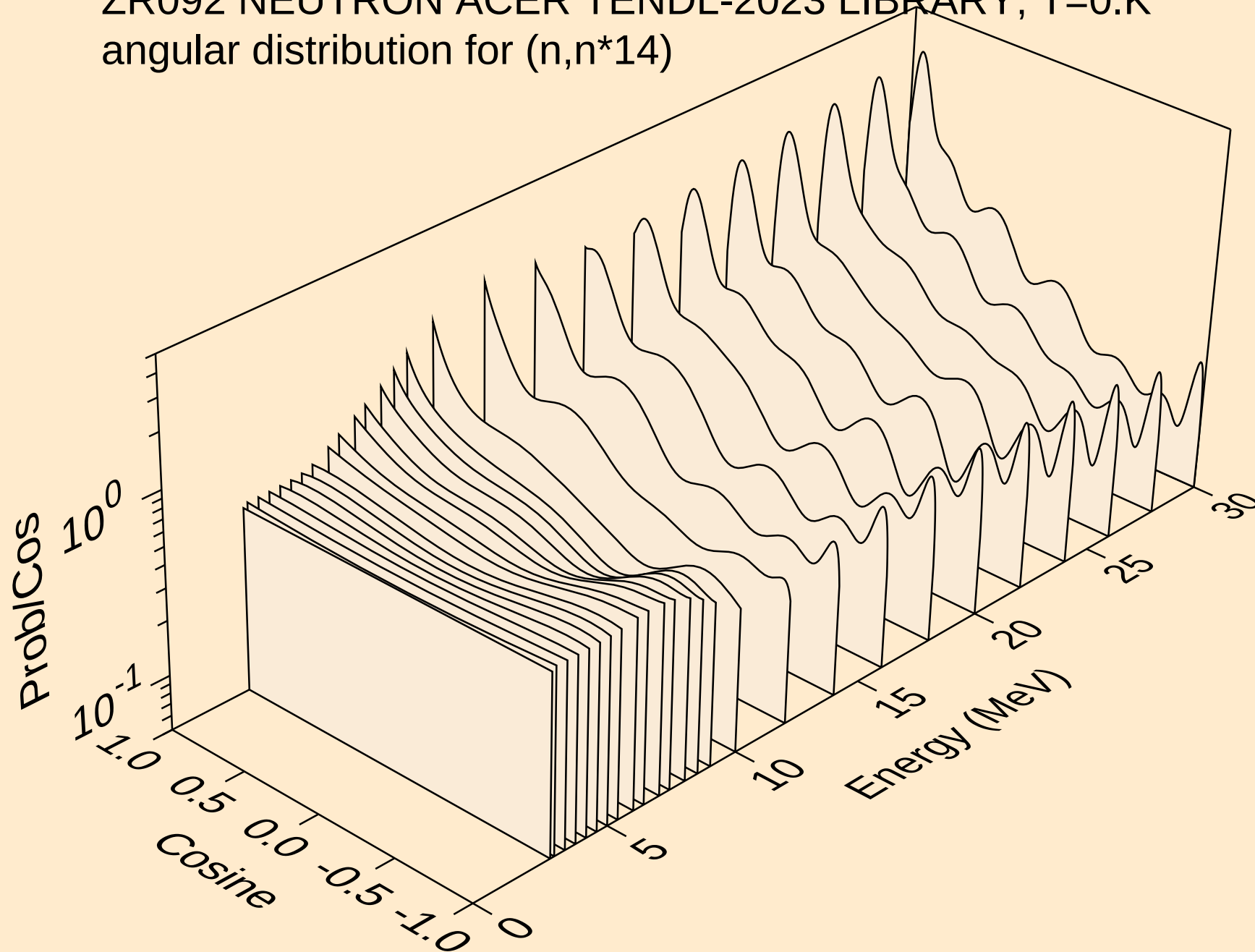
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angular distribution for (n,n\*12)



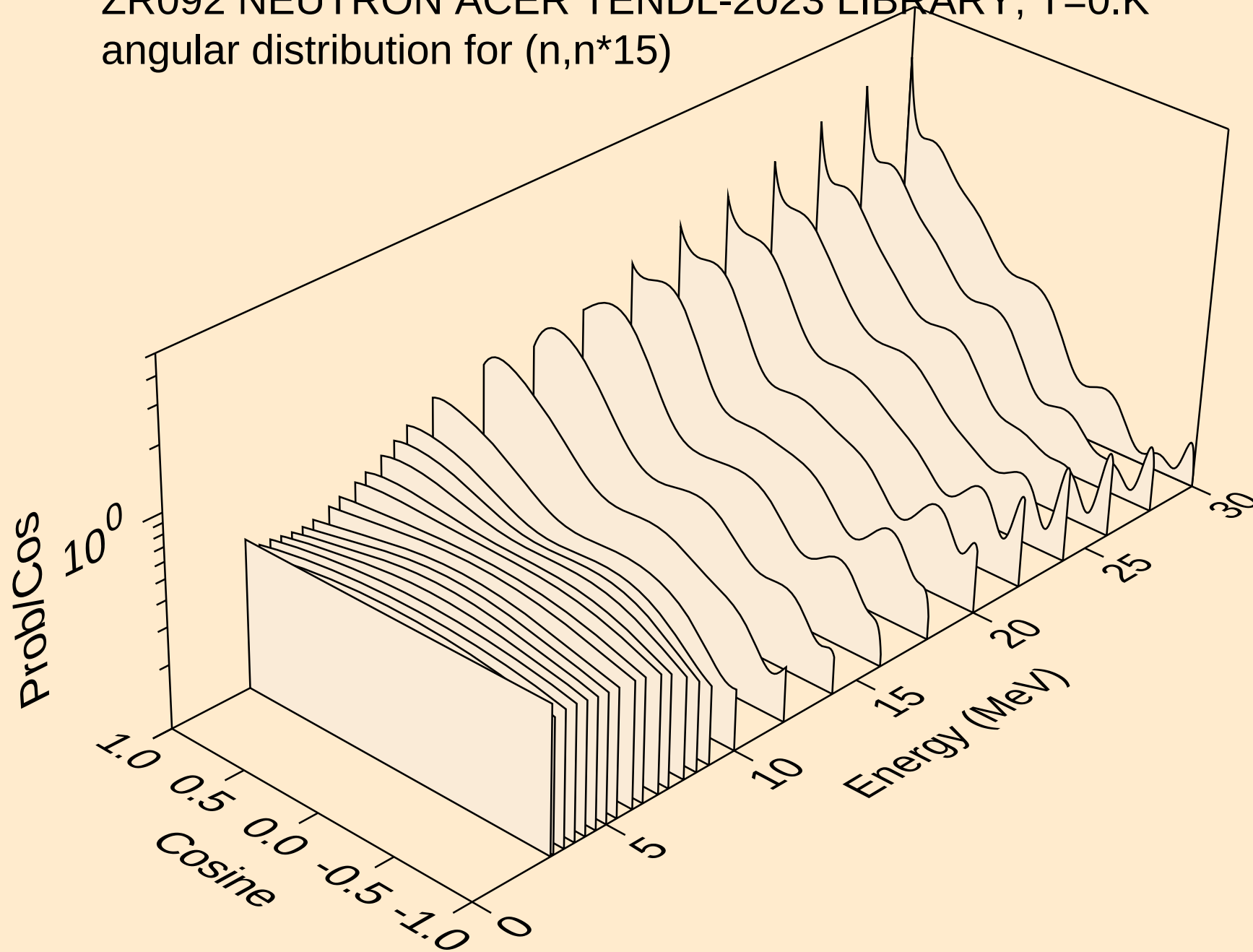
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angular distribution for (n,n\*13)



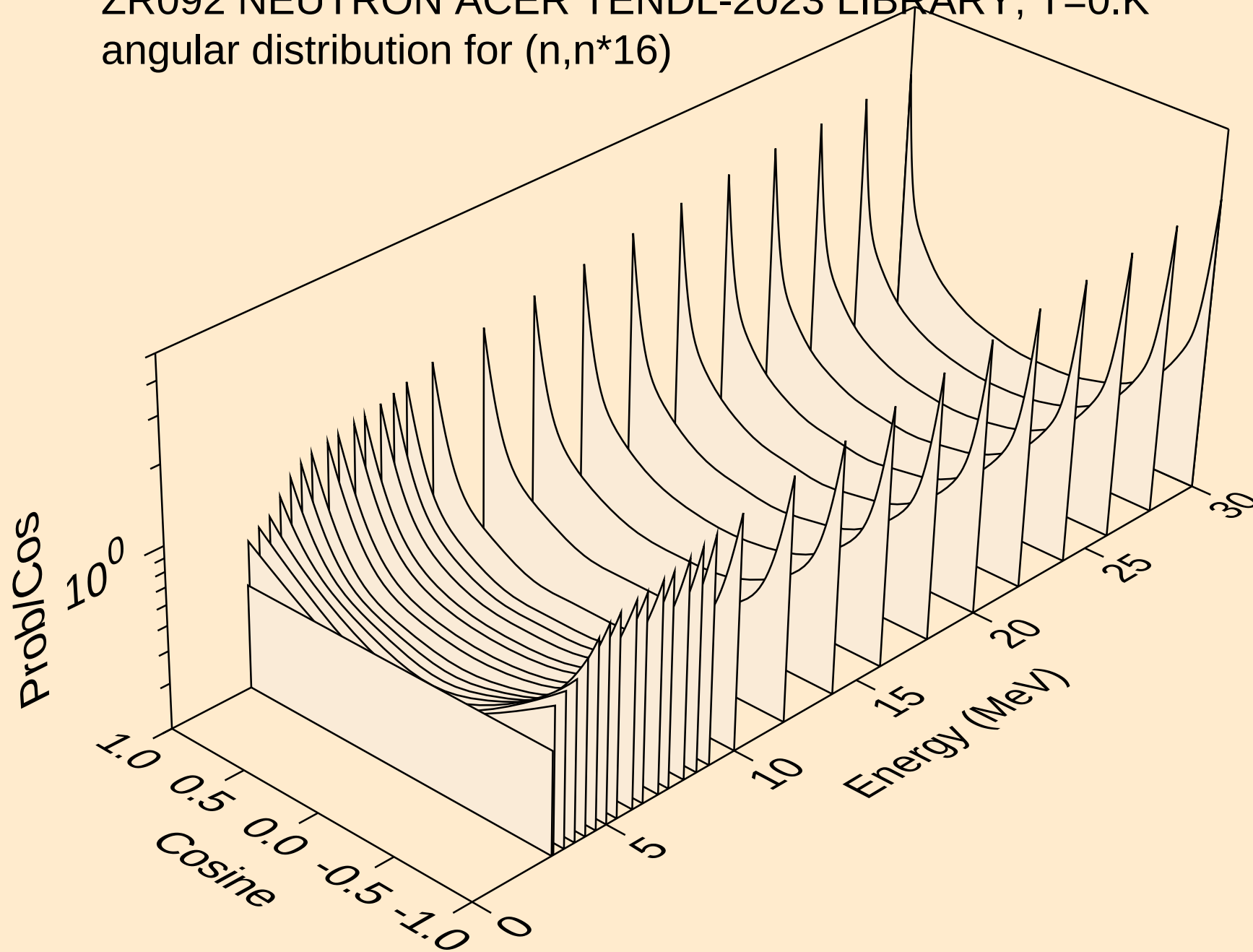
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angular distribution for (n,n\*14)



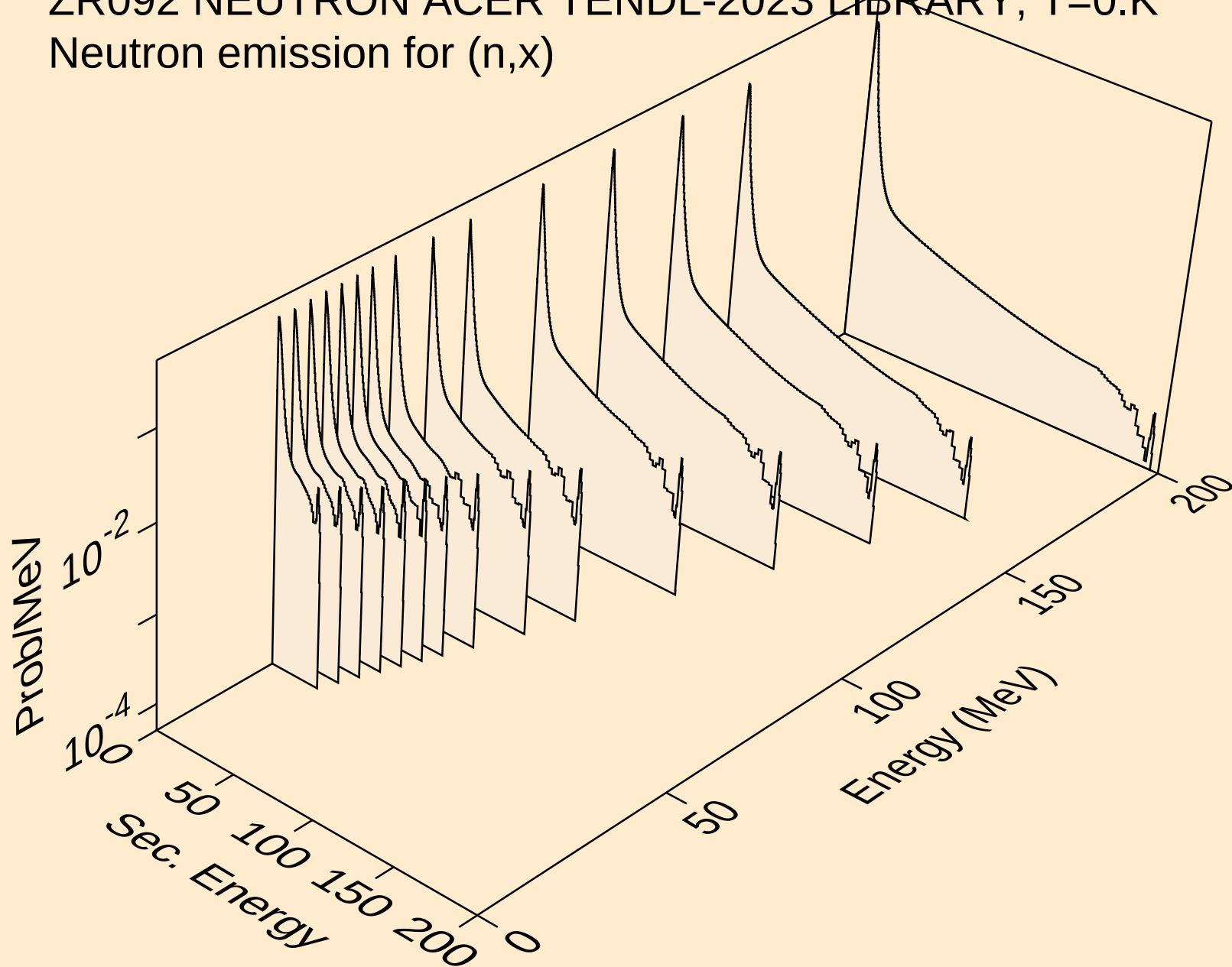
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angular distribution for (n,n\*15)



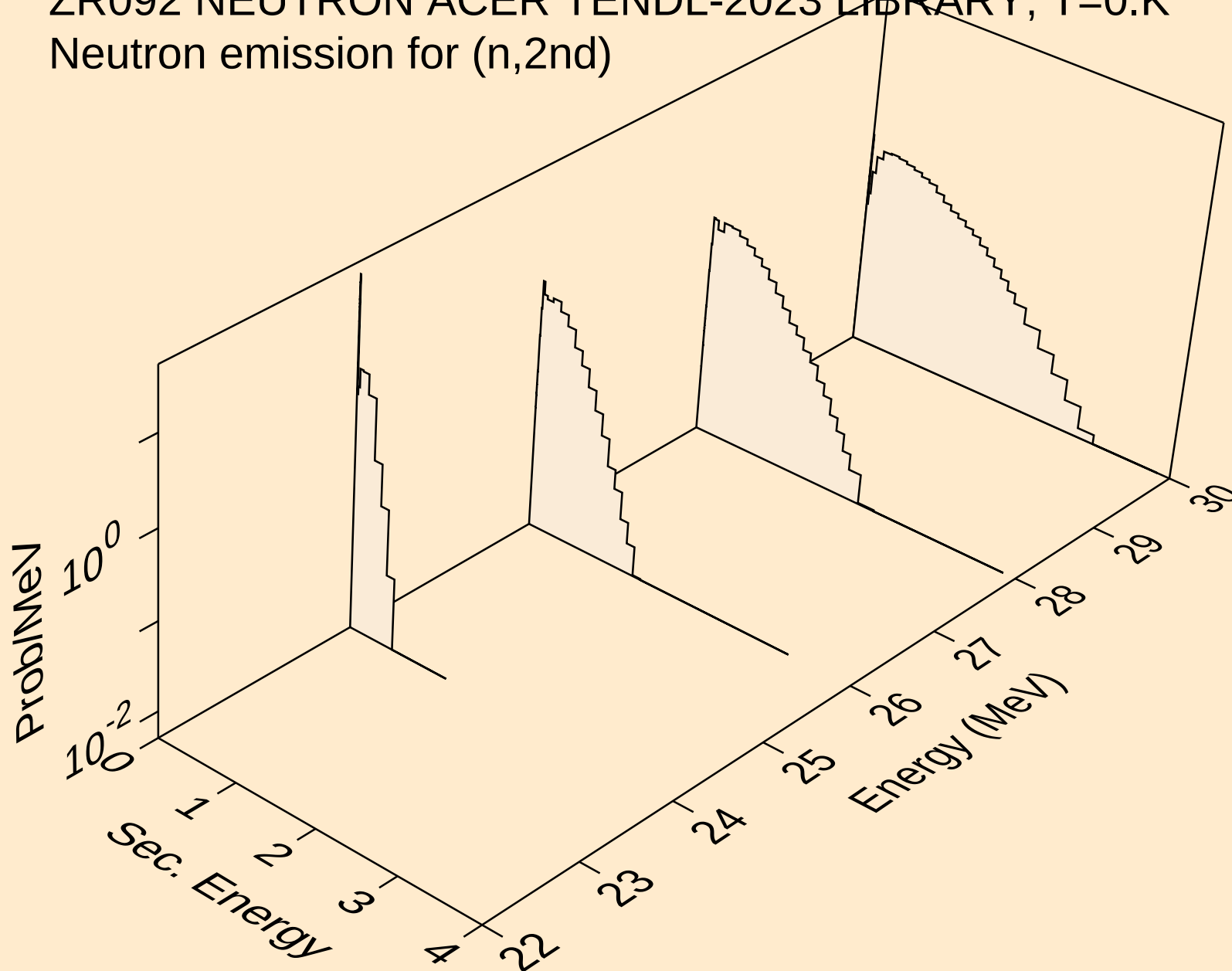
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angular distribution for (n,n\*16)



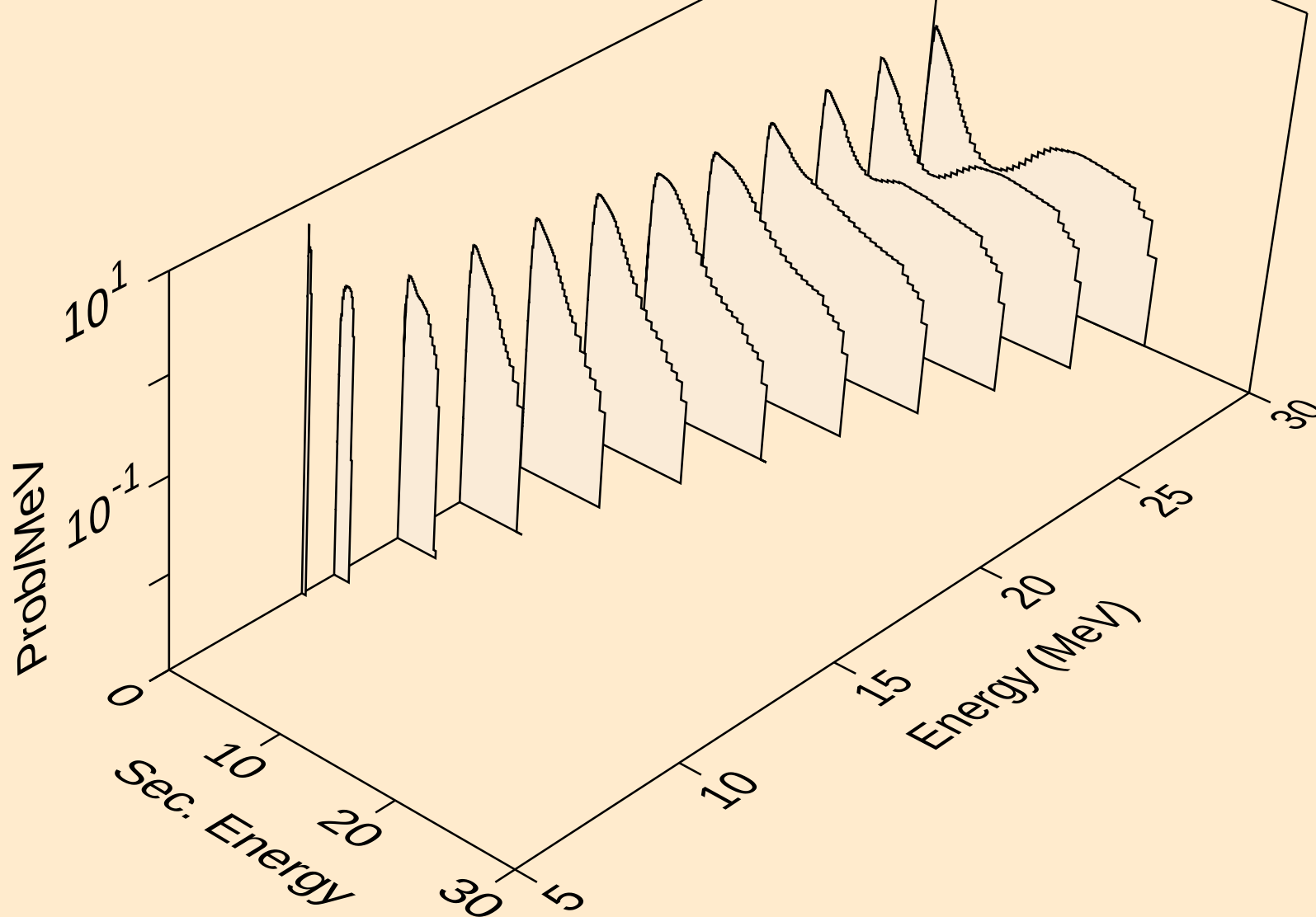
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Neutron emission for (n,x)



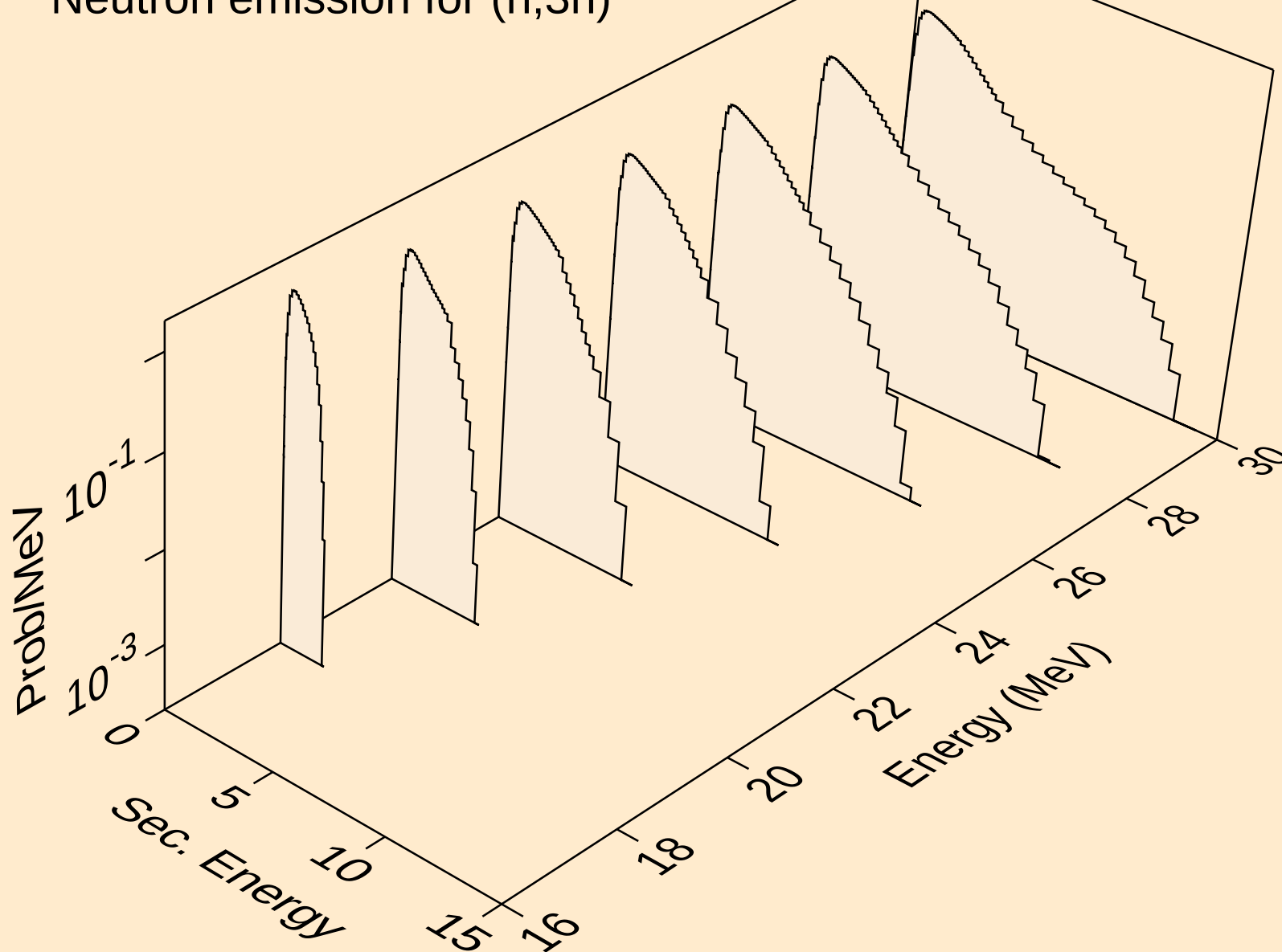
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)

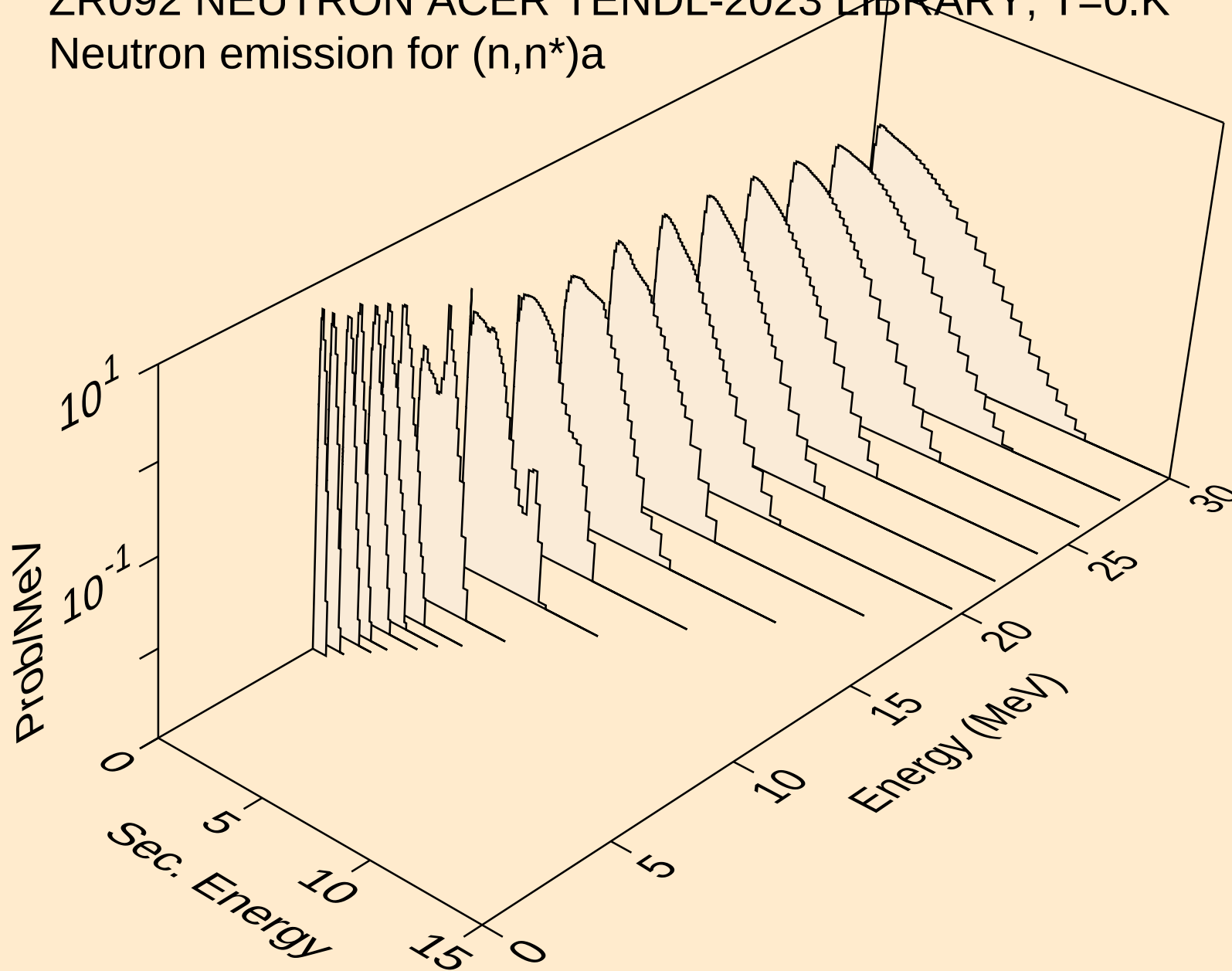


ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



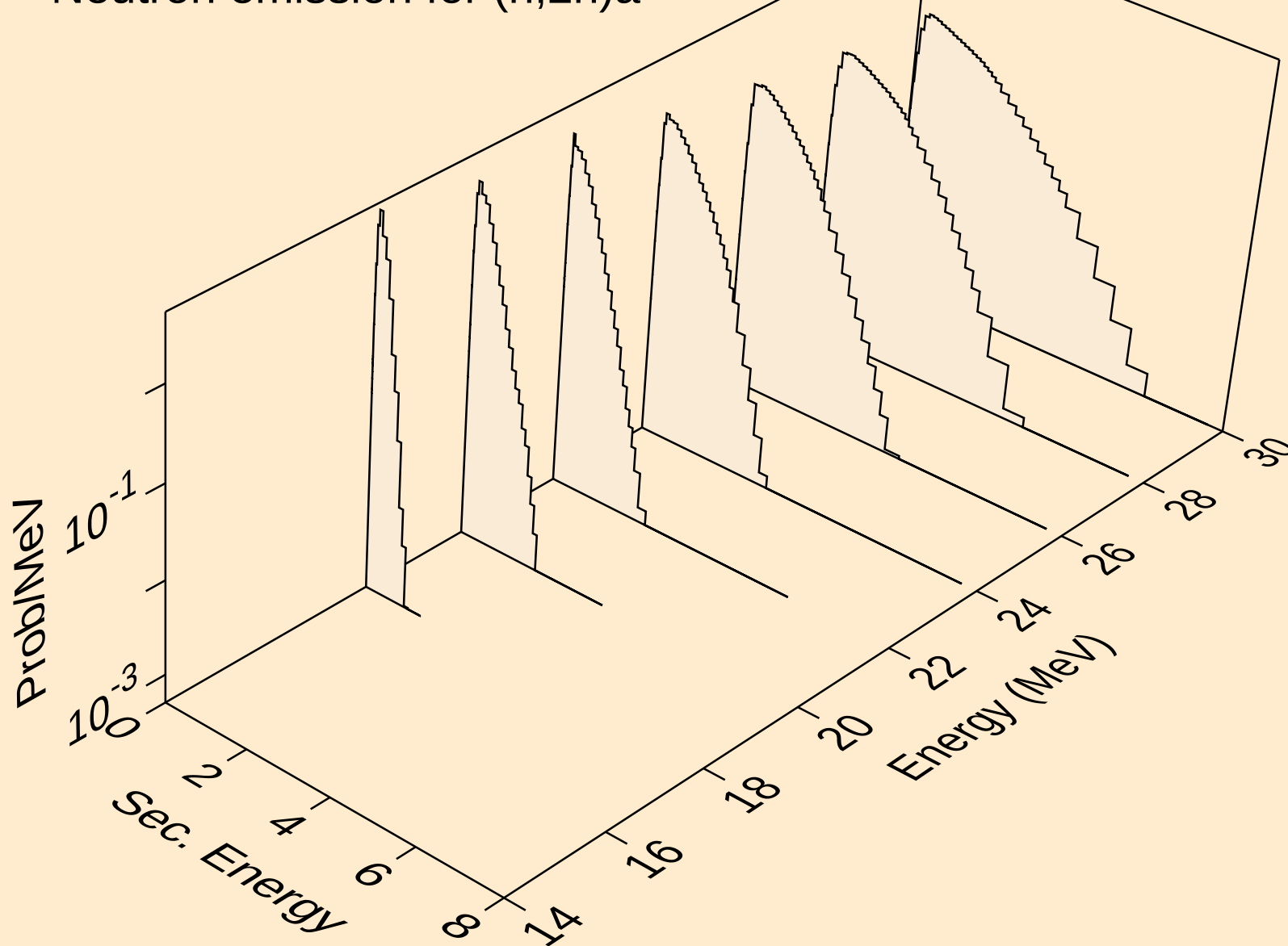
# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,n\*)a



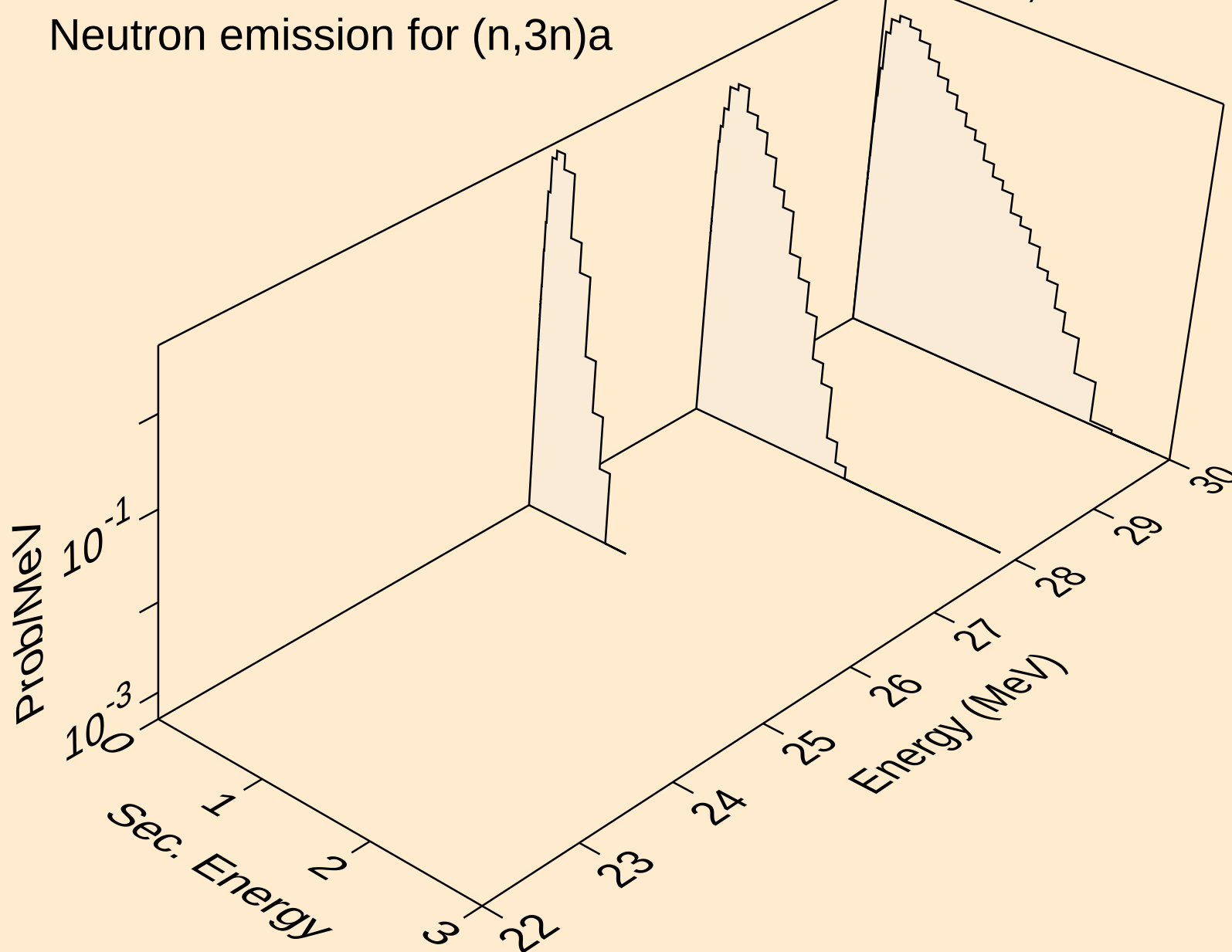
# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,2n) $\alpha$



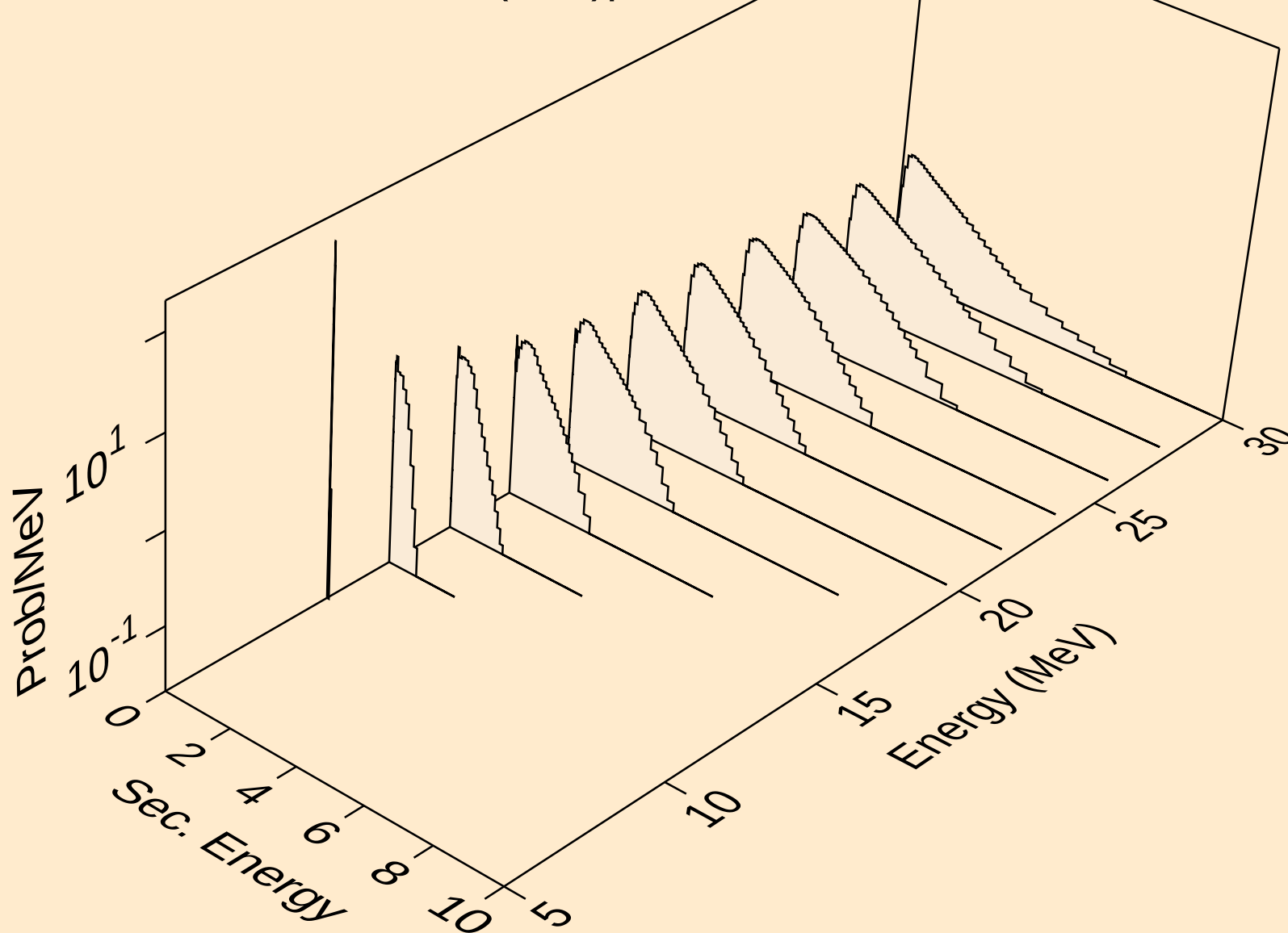
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,3n)a



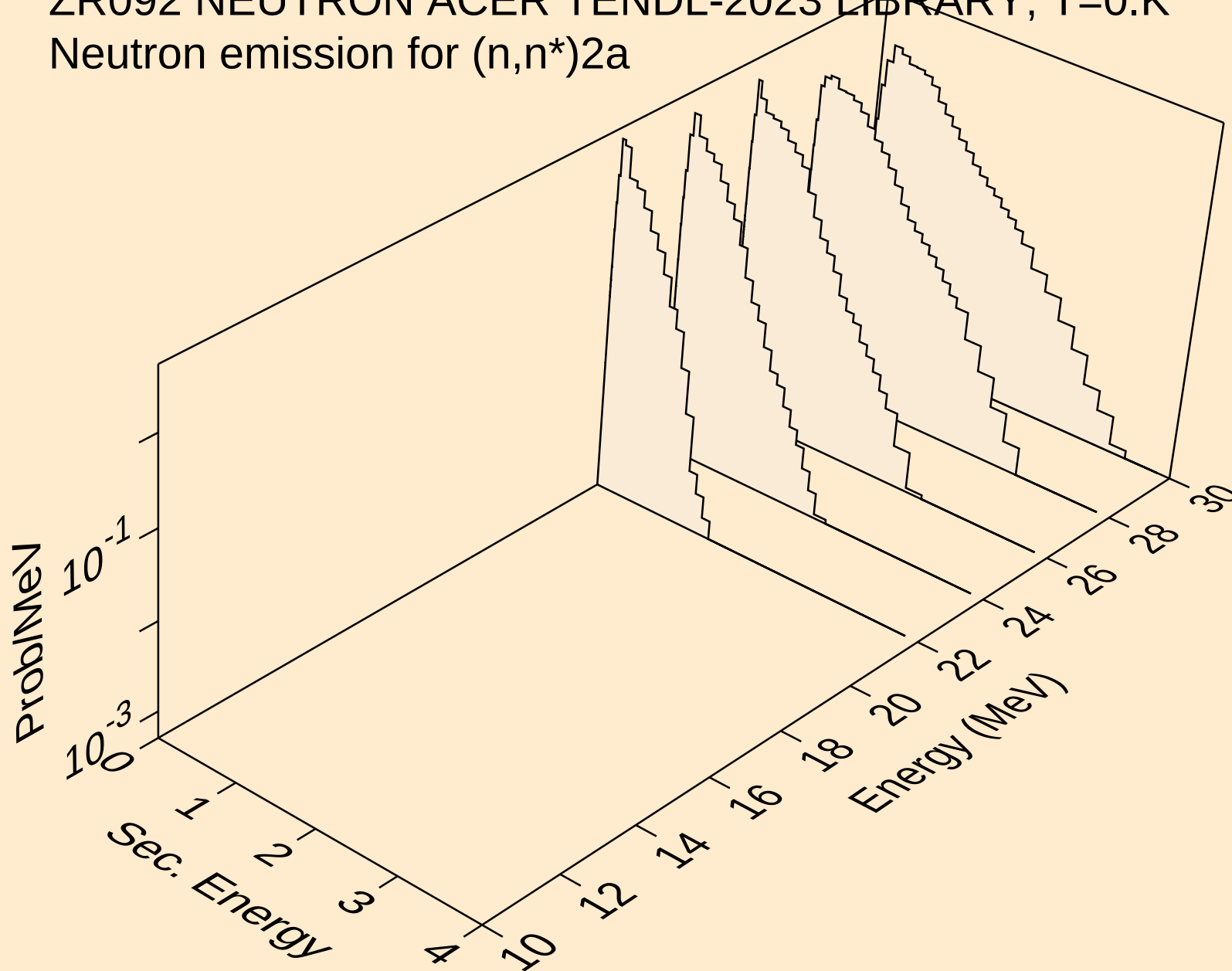
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,n\*)p



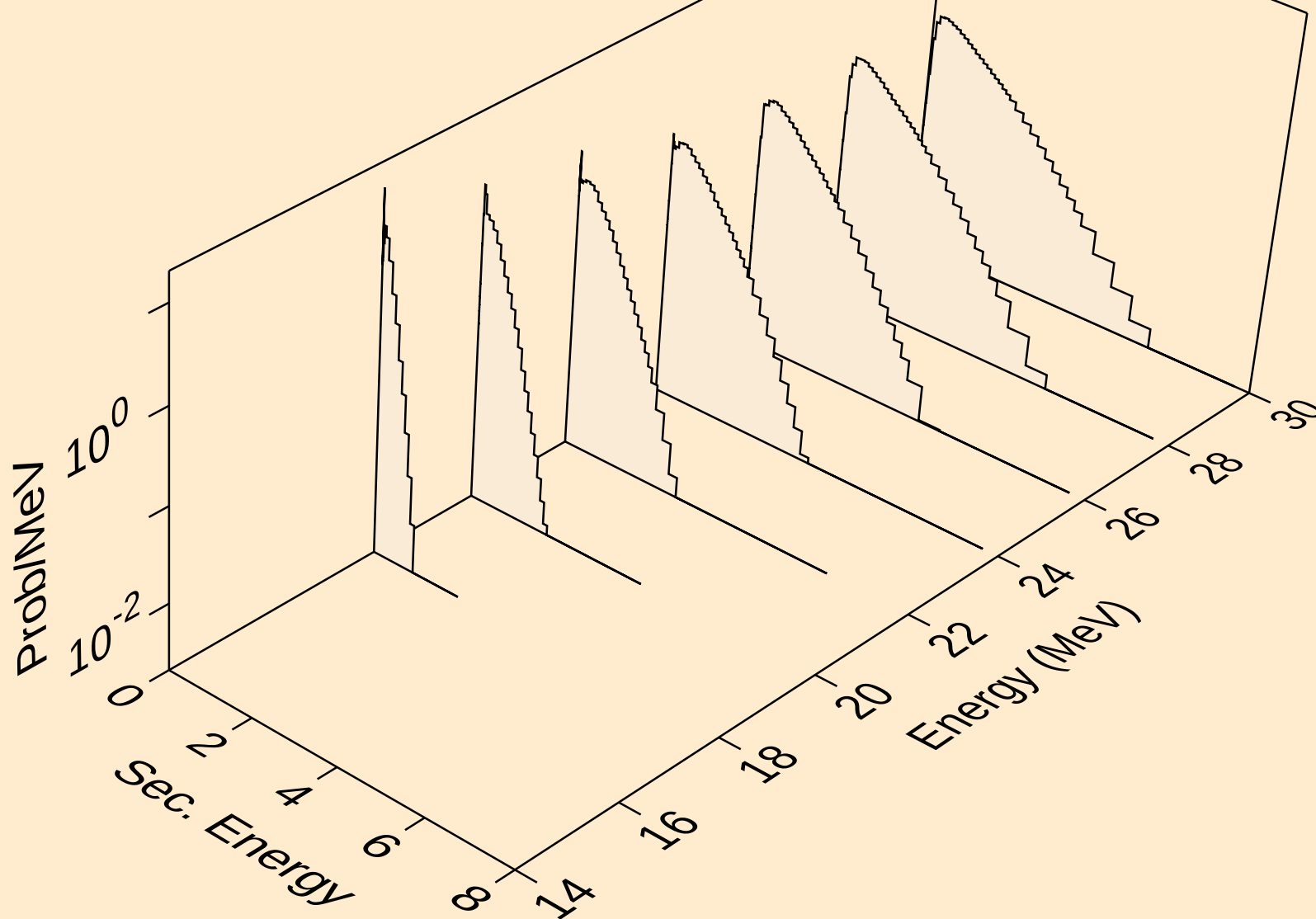
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

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



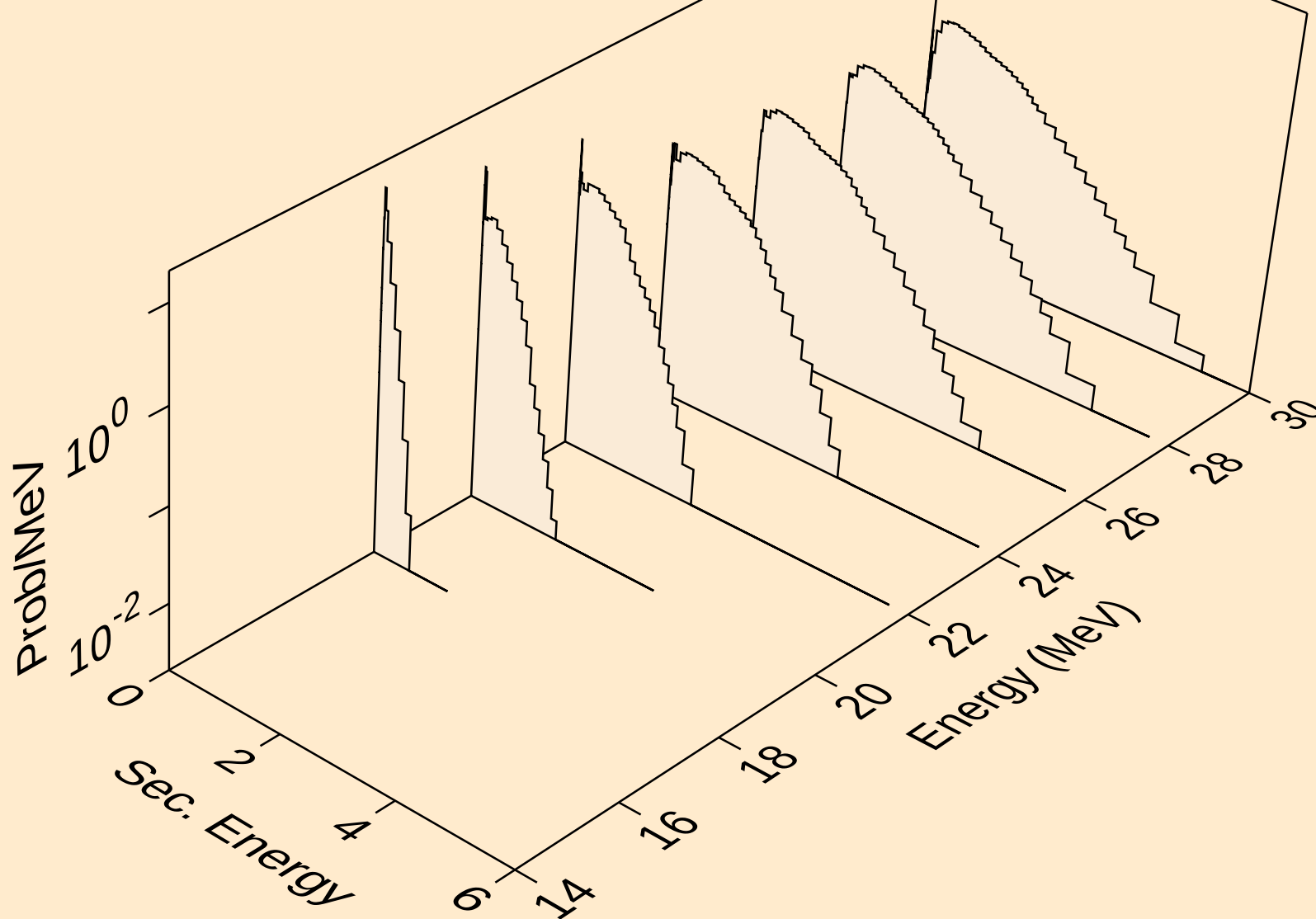
# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,n\*)d



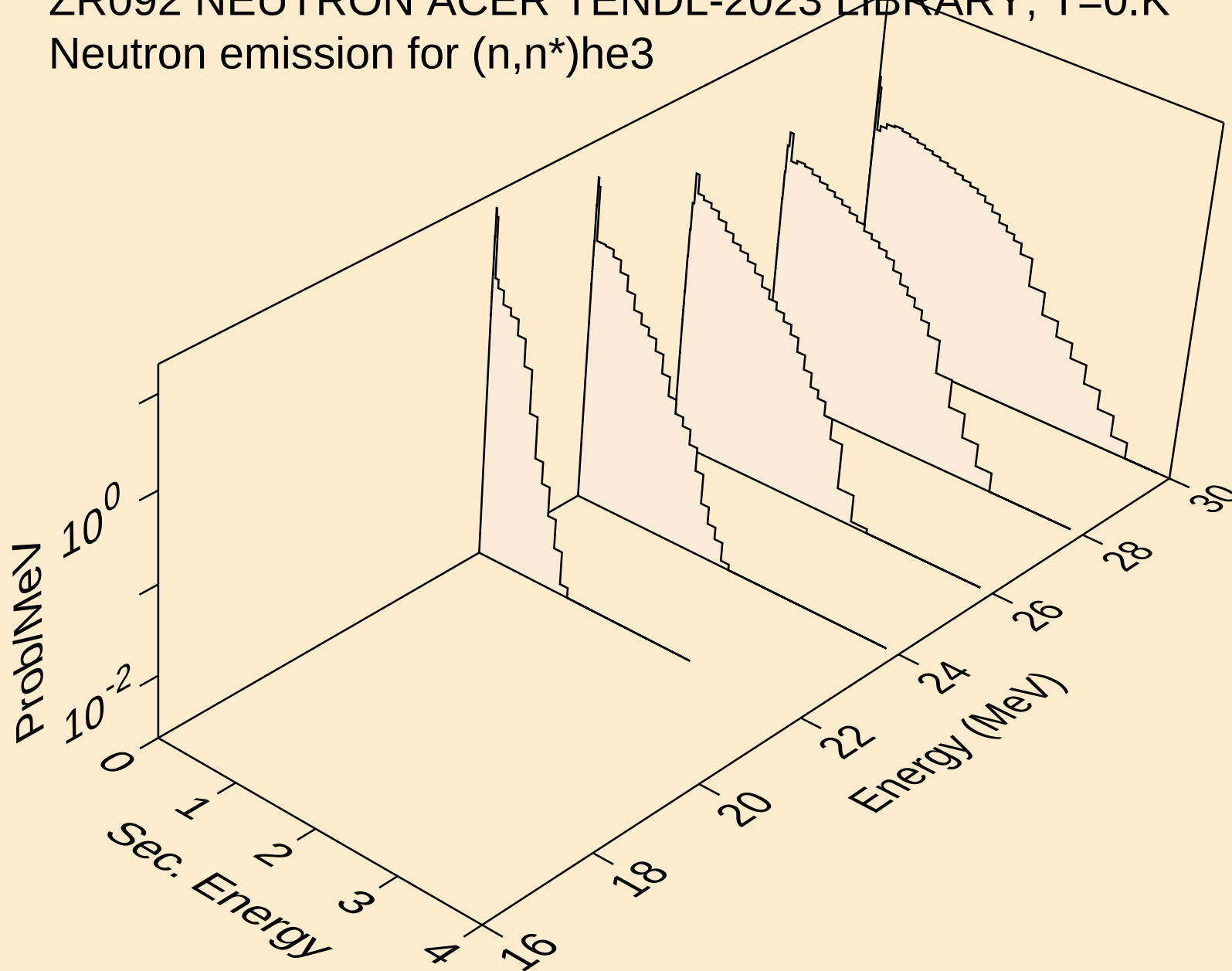
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,n\*)t



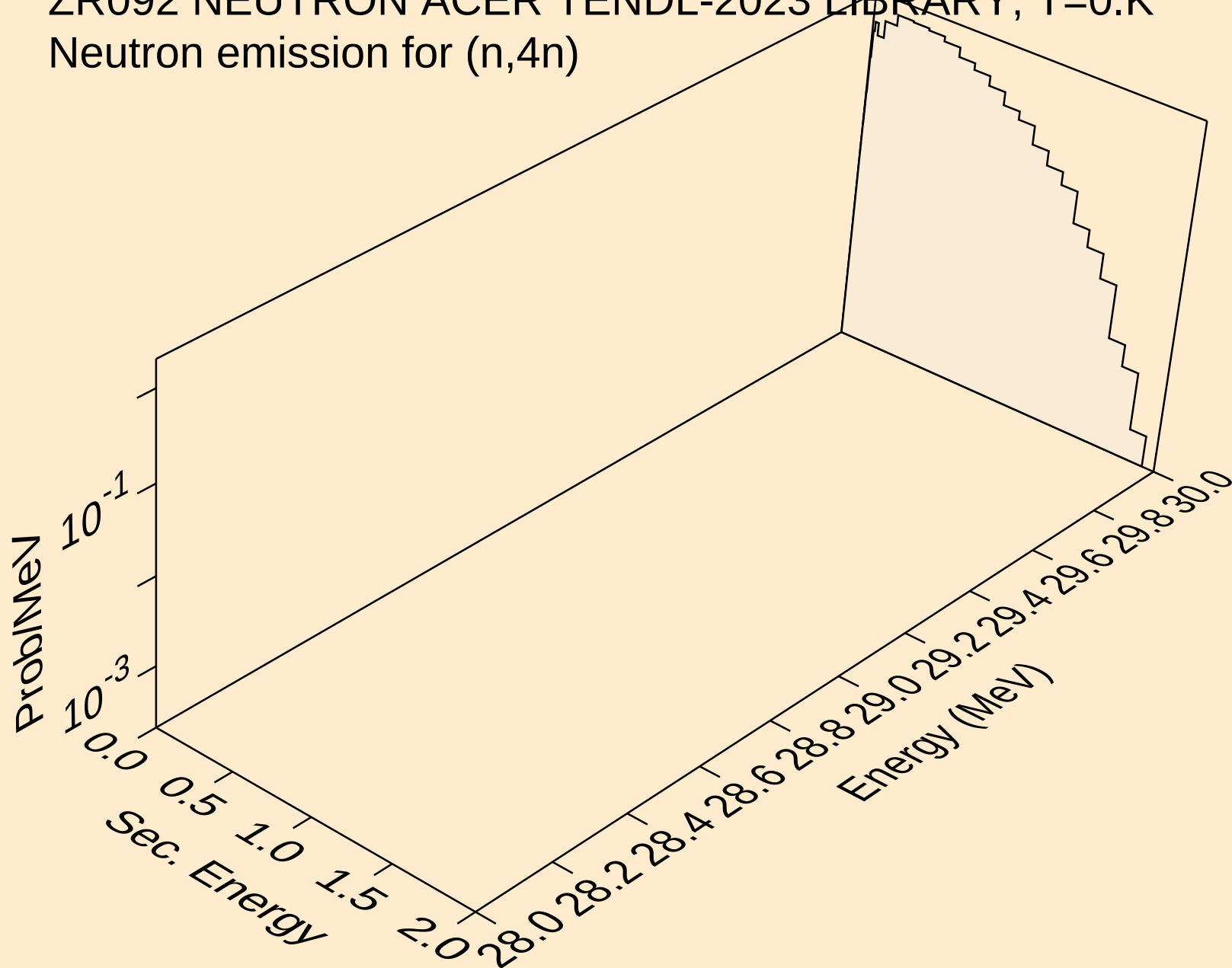
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,n\*)he3

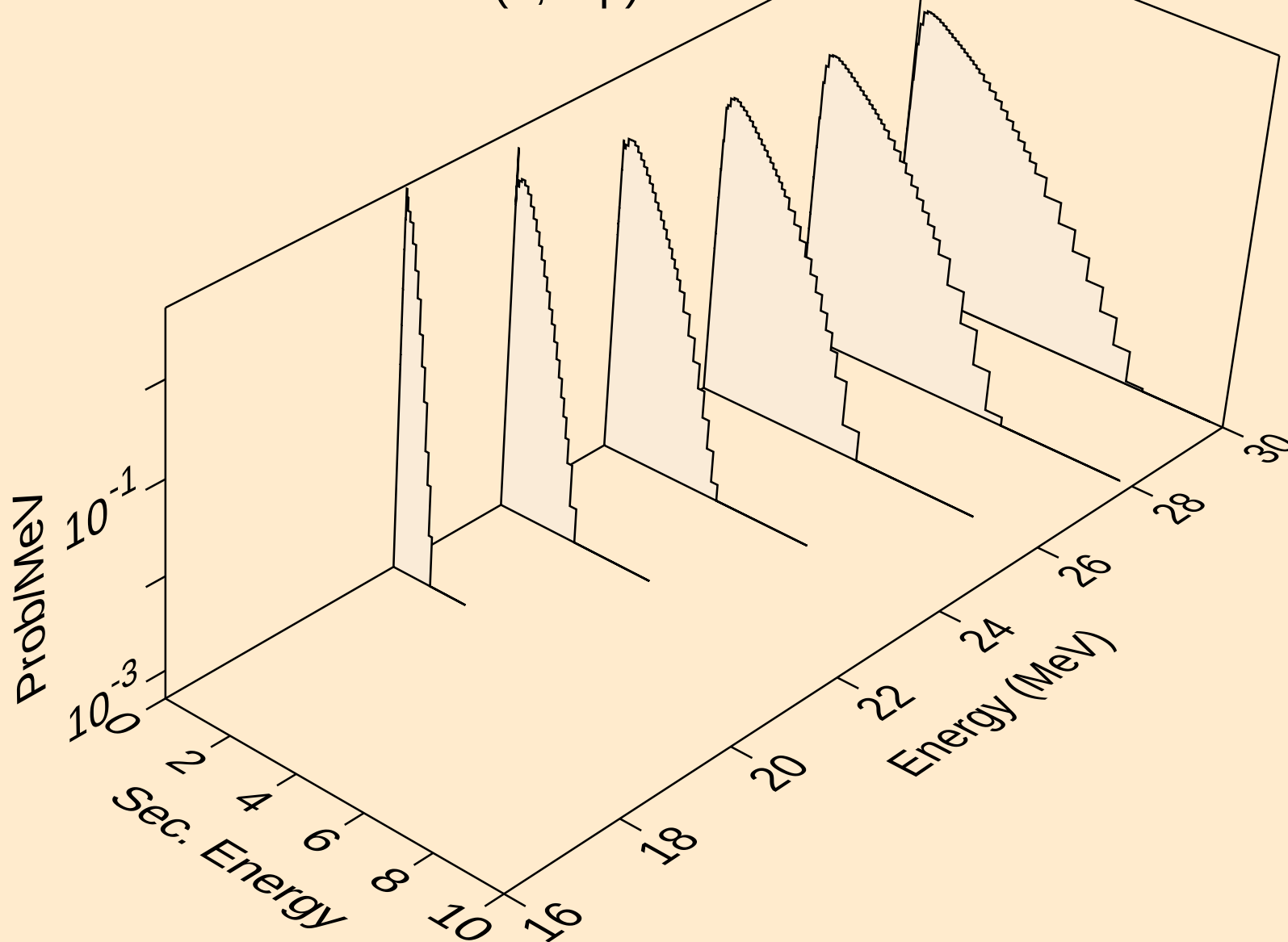


ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

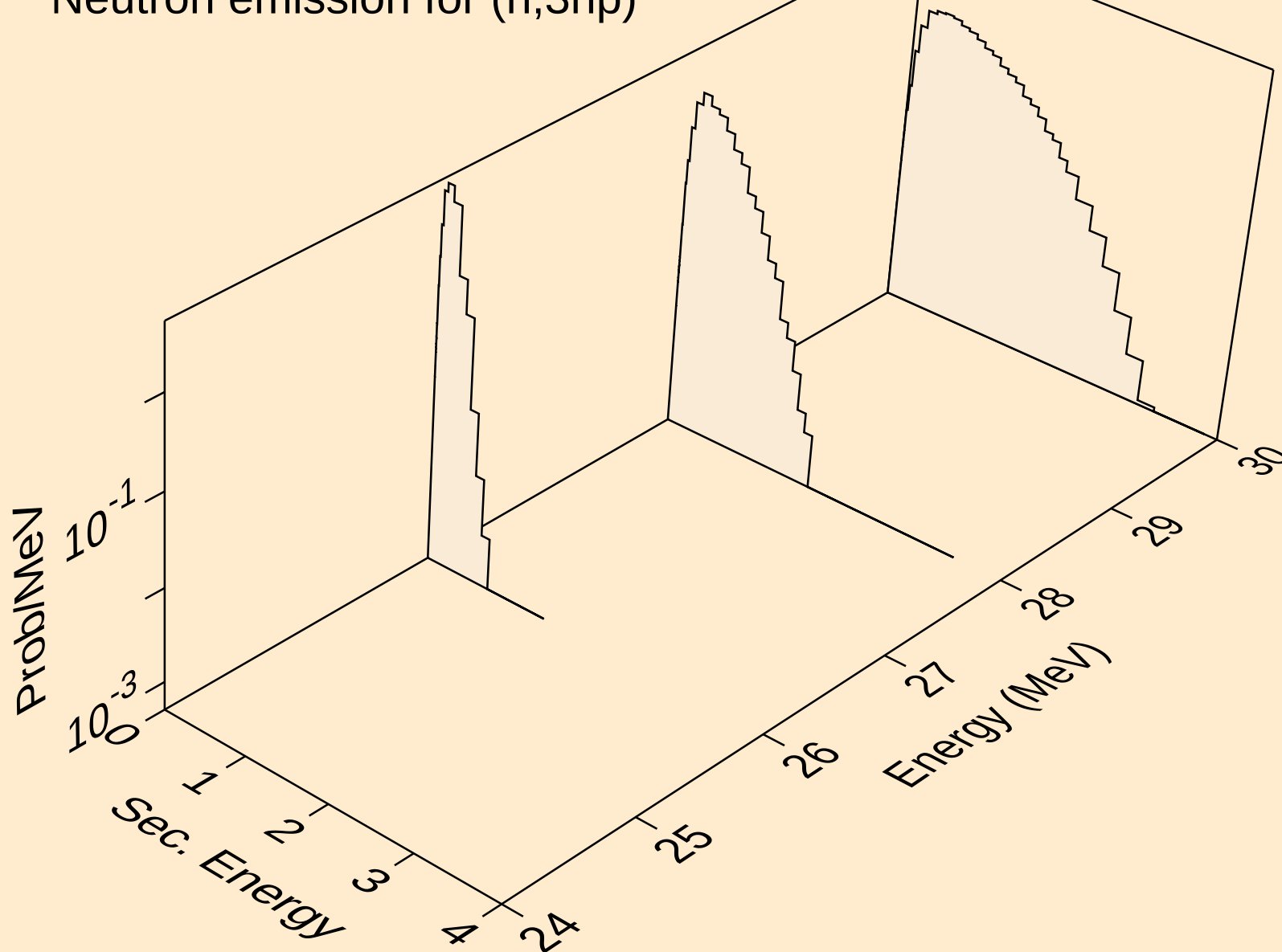
Neutron emission for (n,4n)



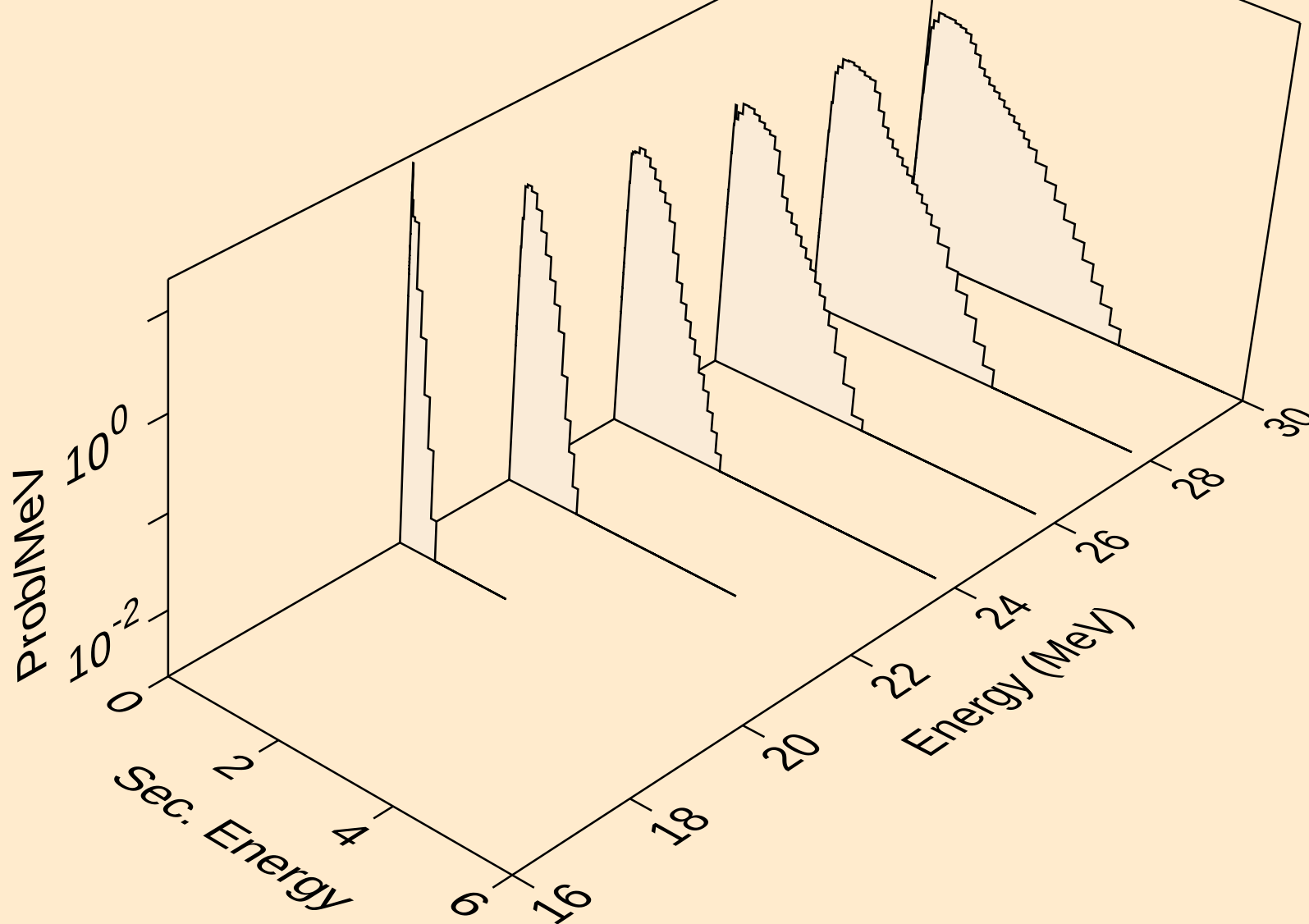
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



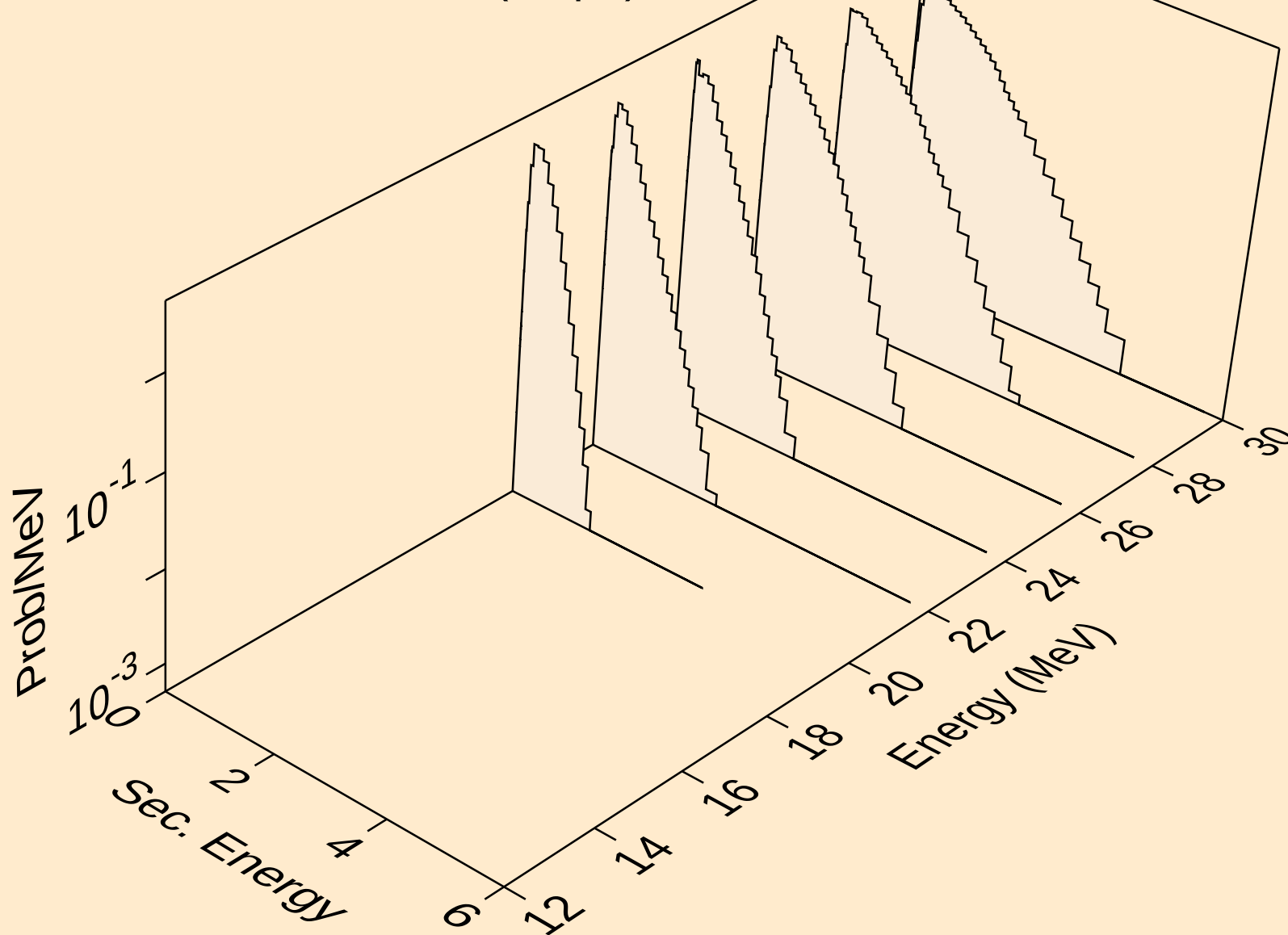
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Neutron emission for (n,3np)



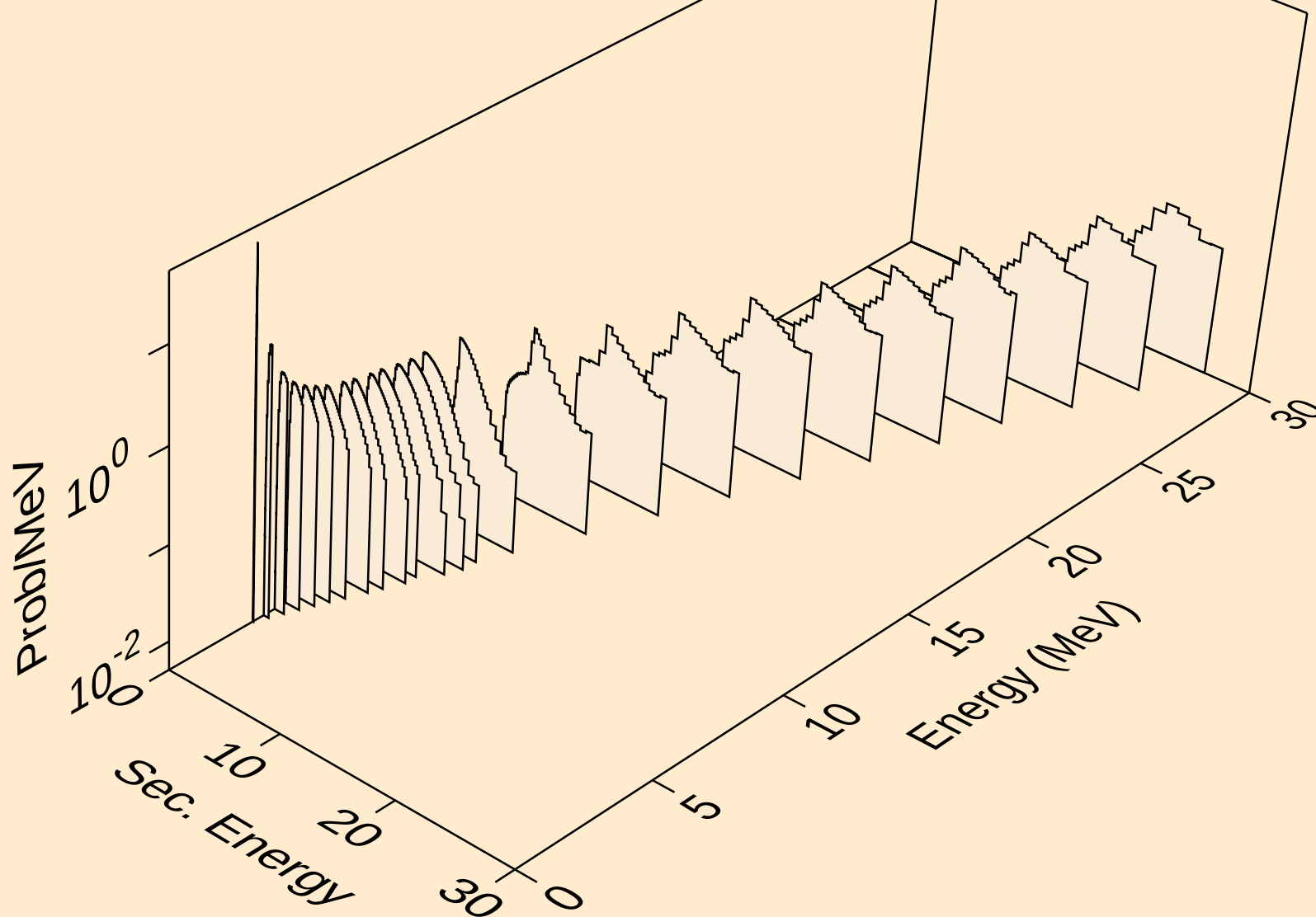
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Neutron emission for (n,n2p)



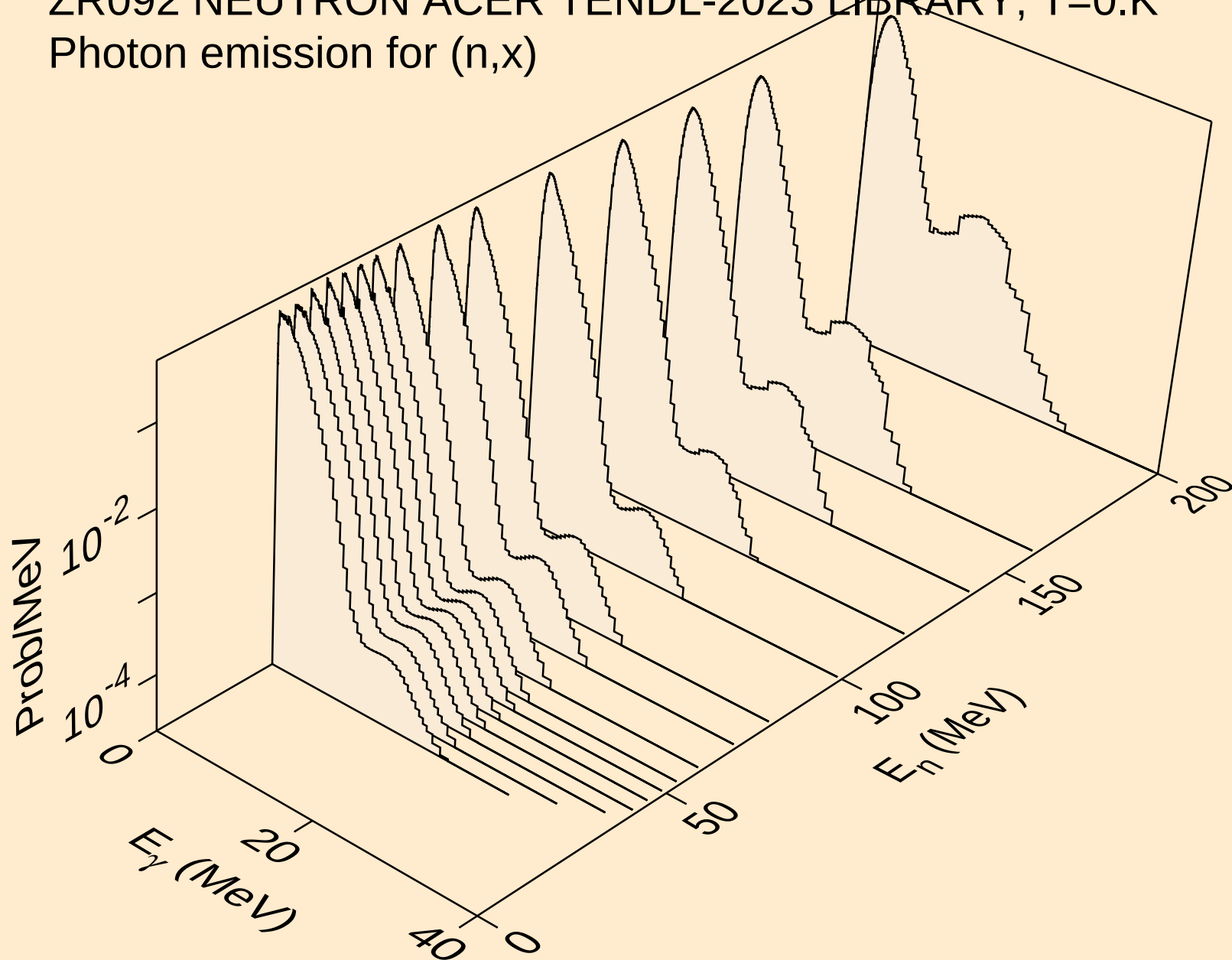
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Neutron emission for (n,npa)



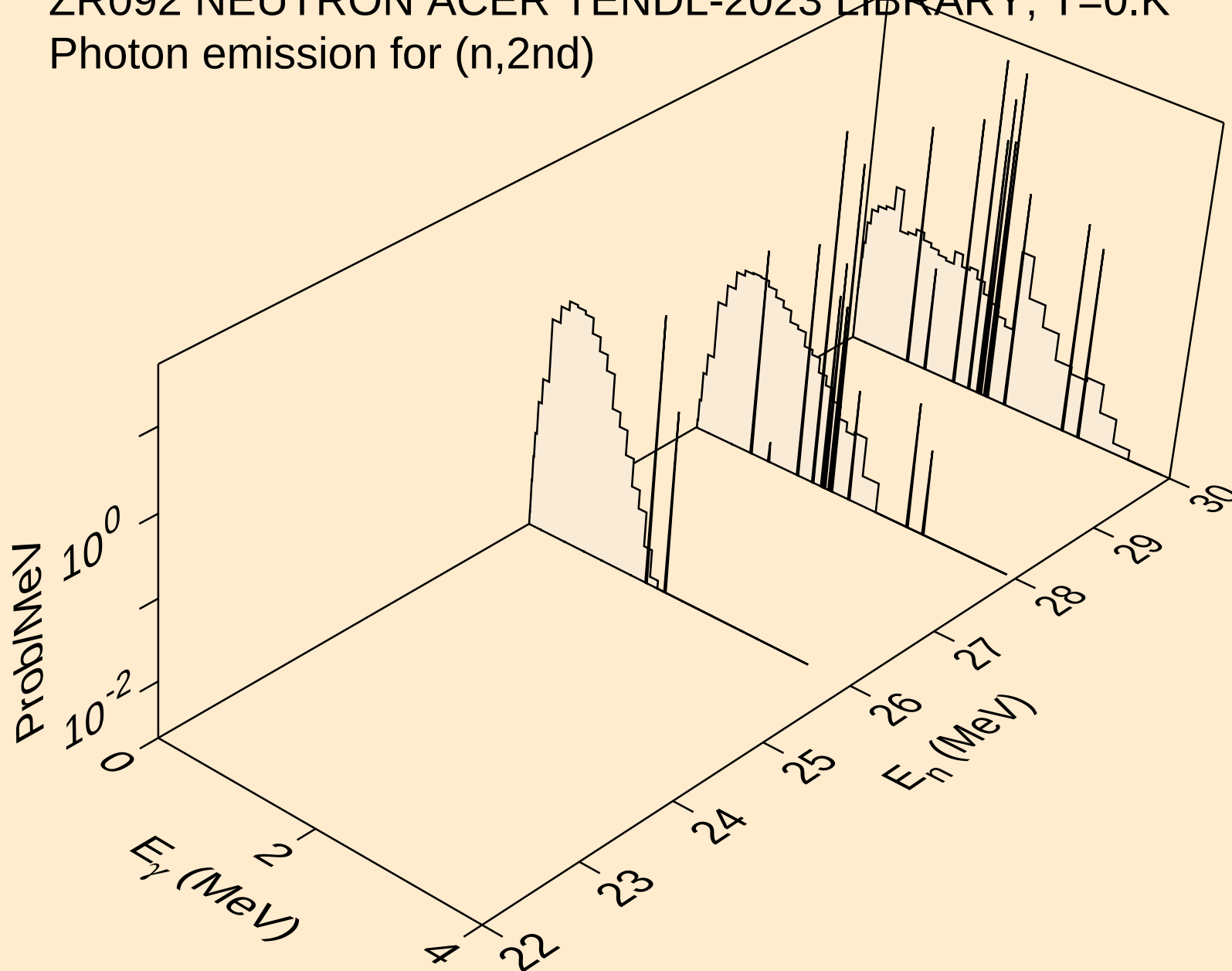
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Neutron emission for (n,n\*c)



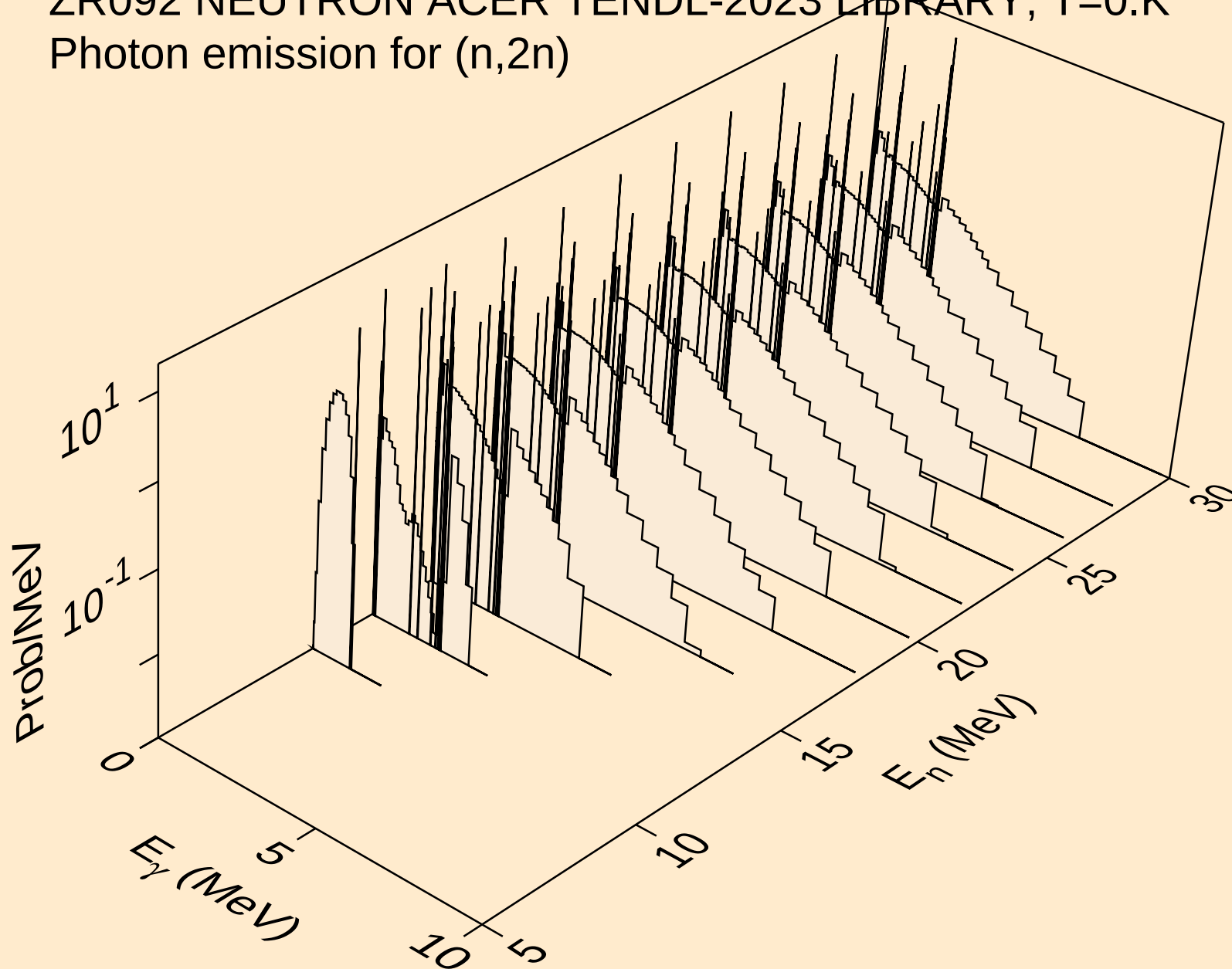
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



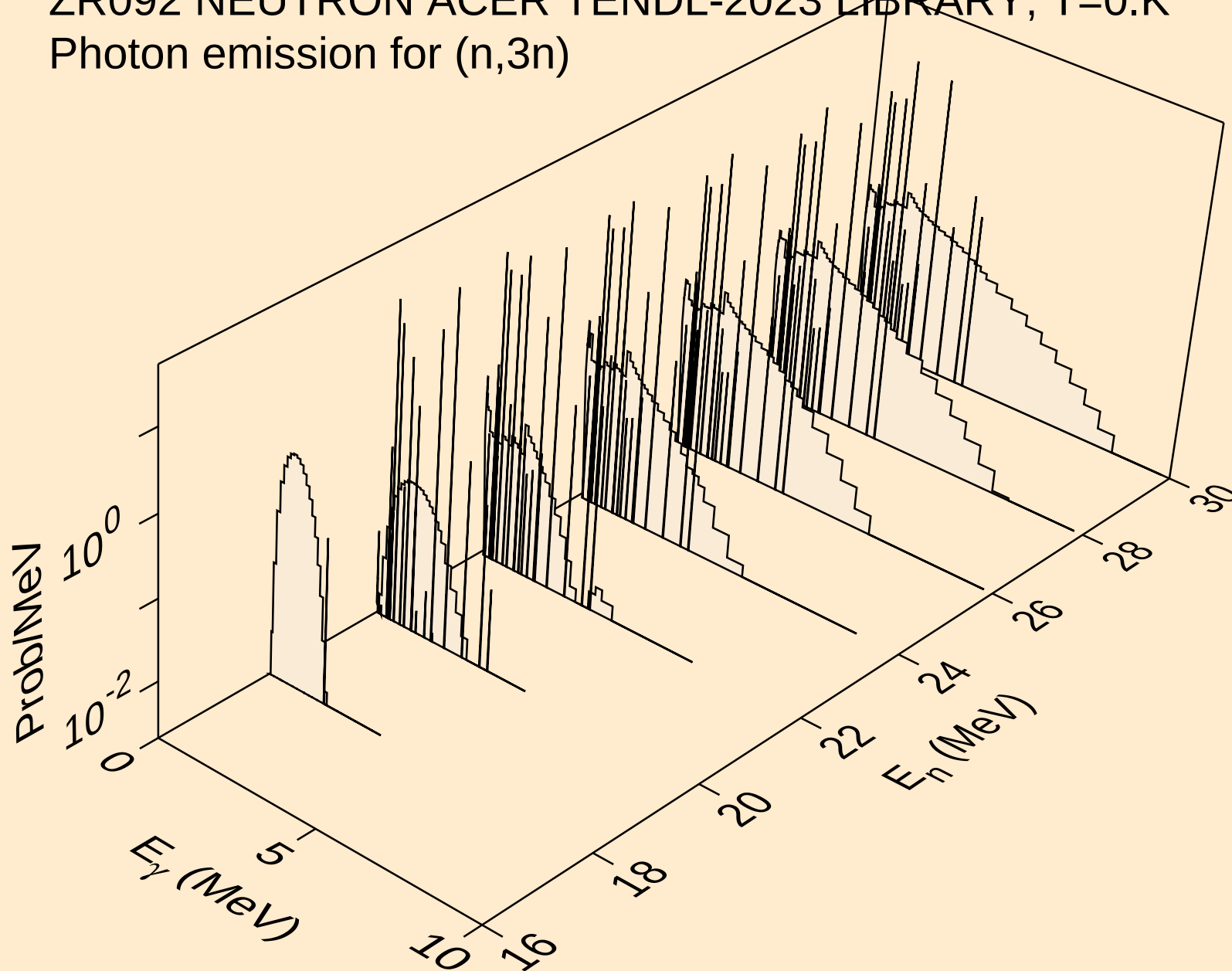
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

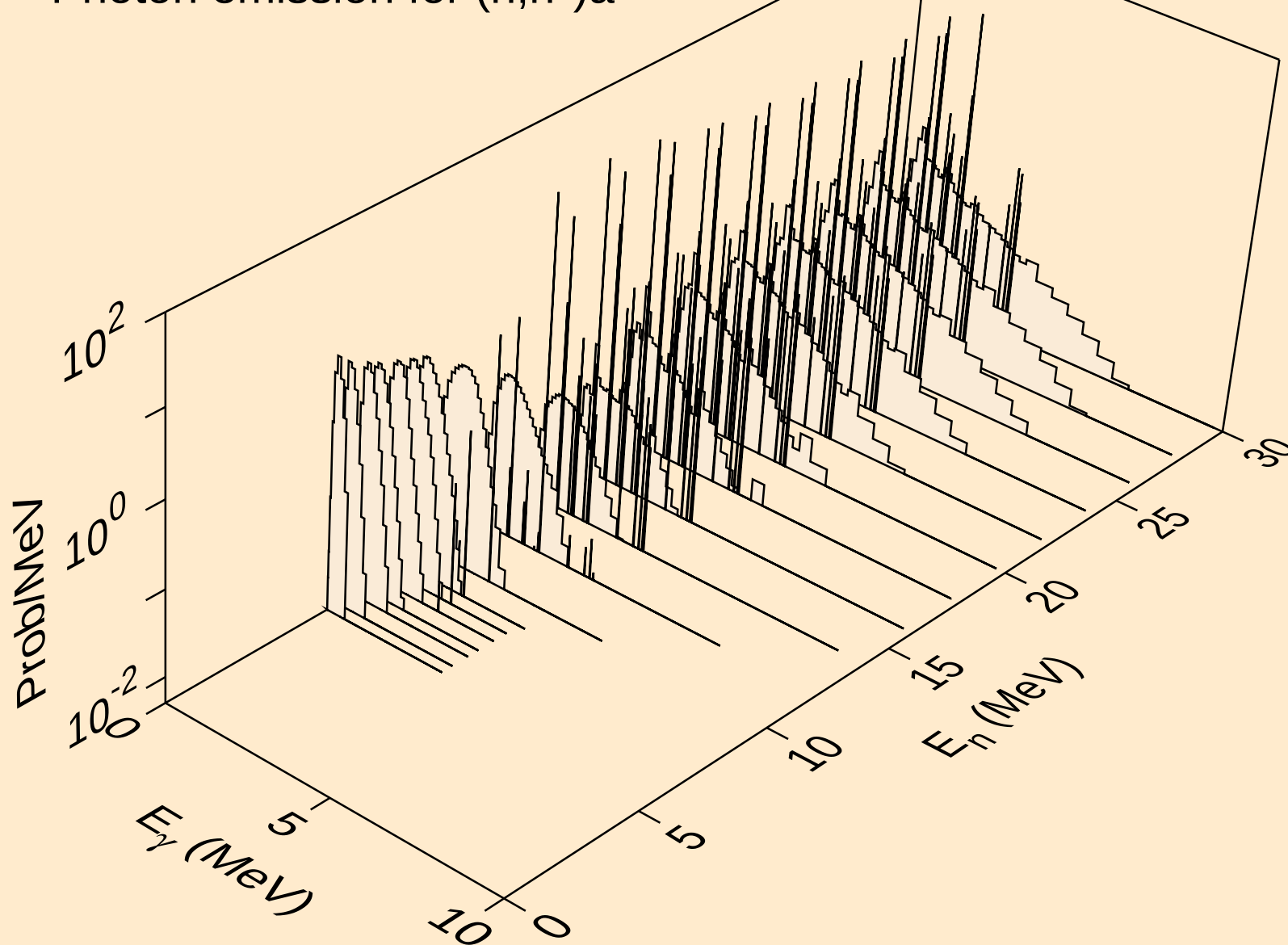


ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



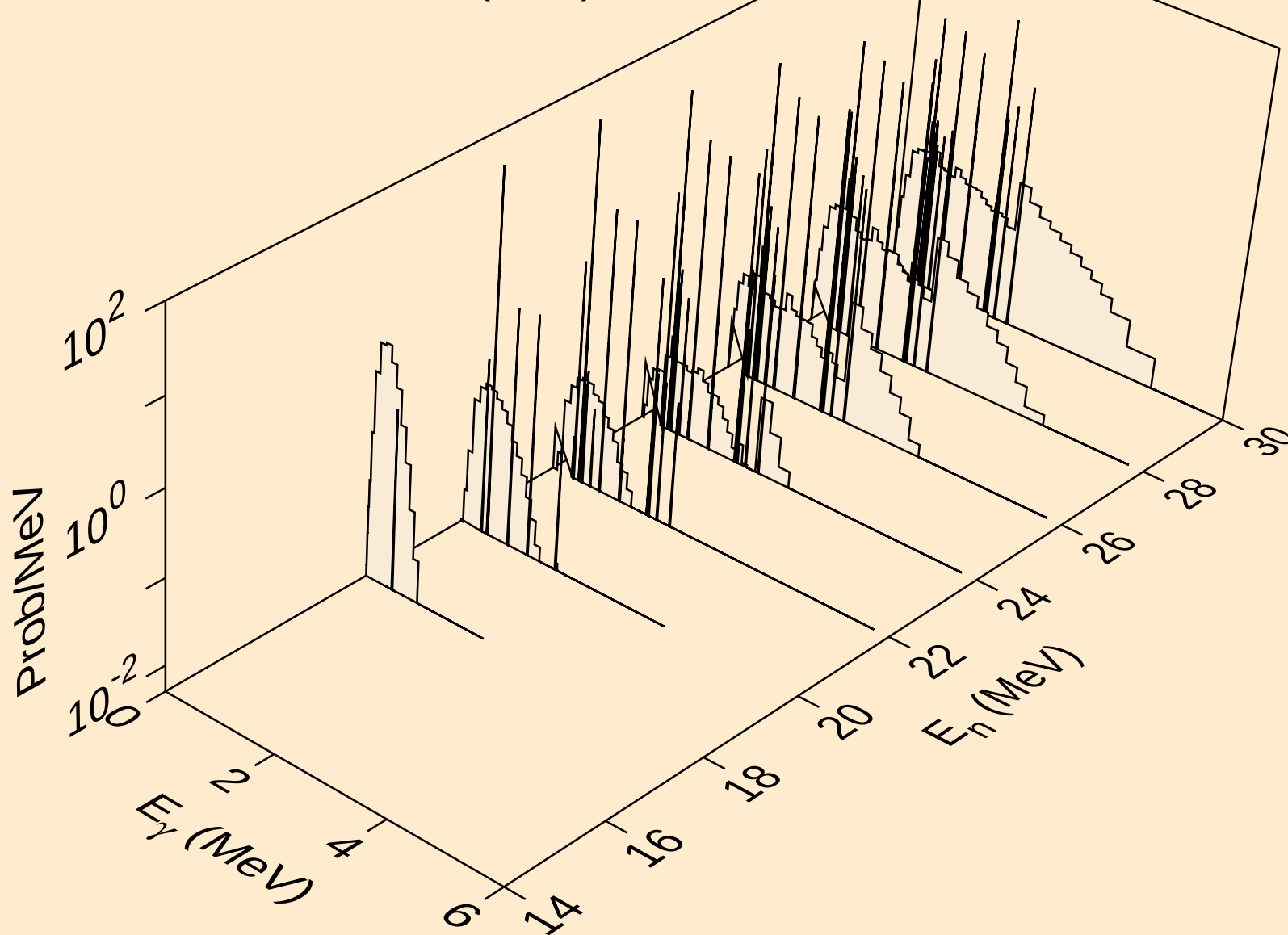
# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)a



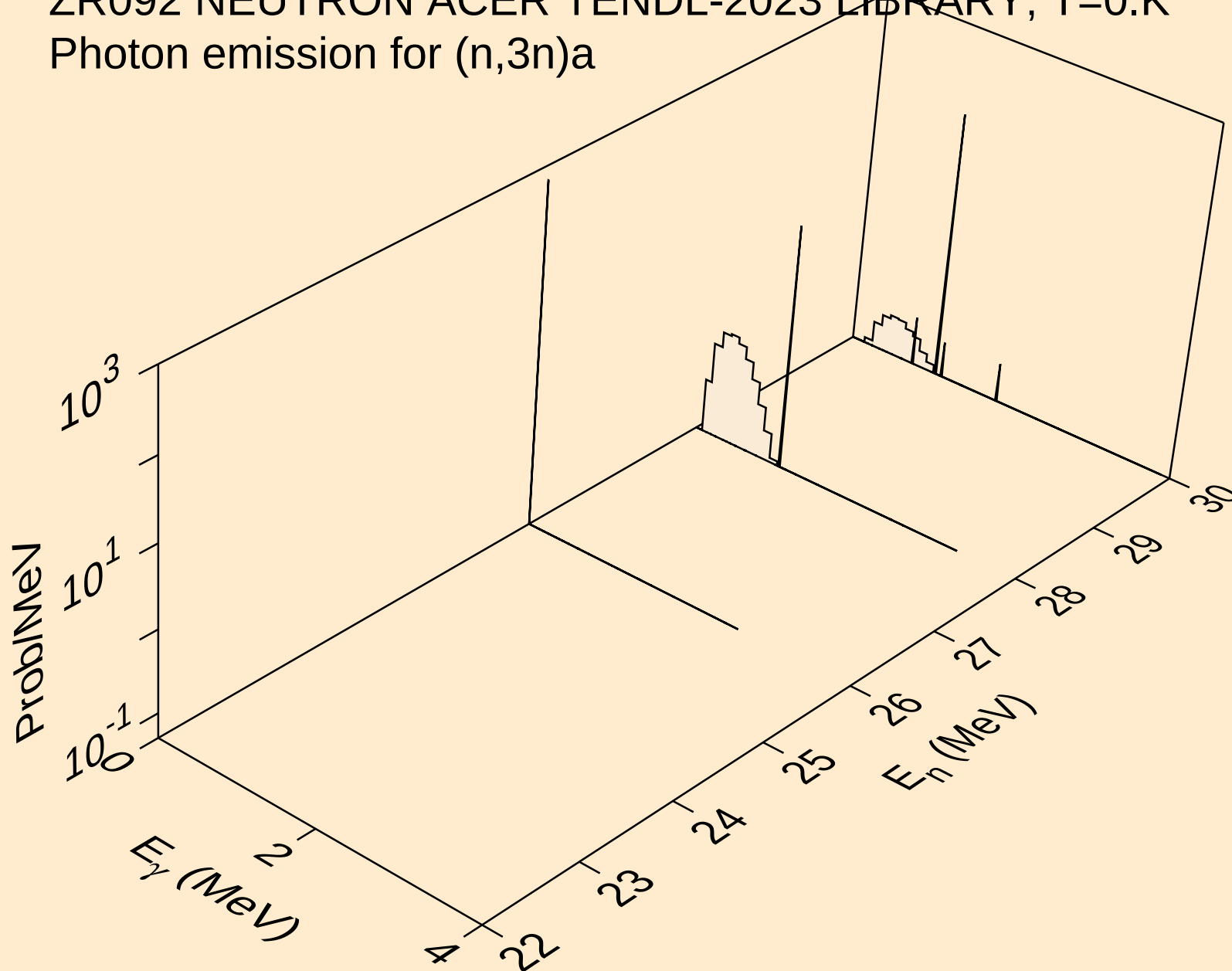
# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,2n) $\alpha$



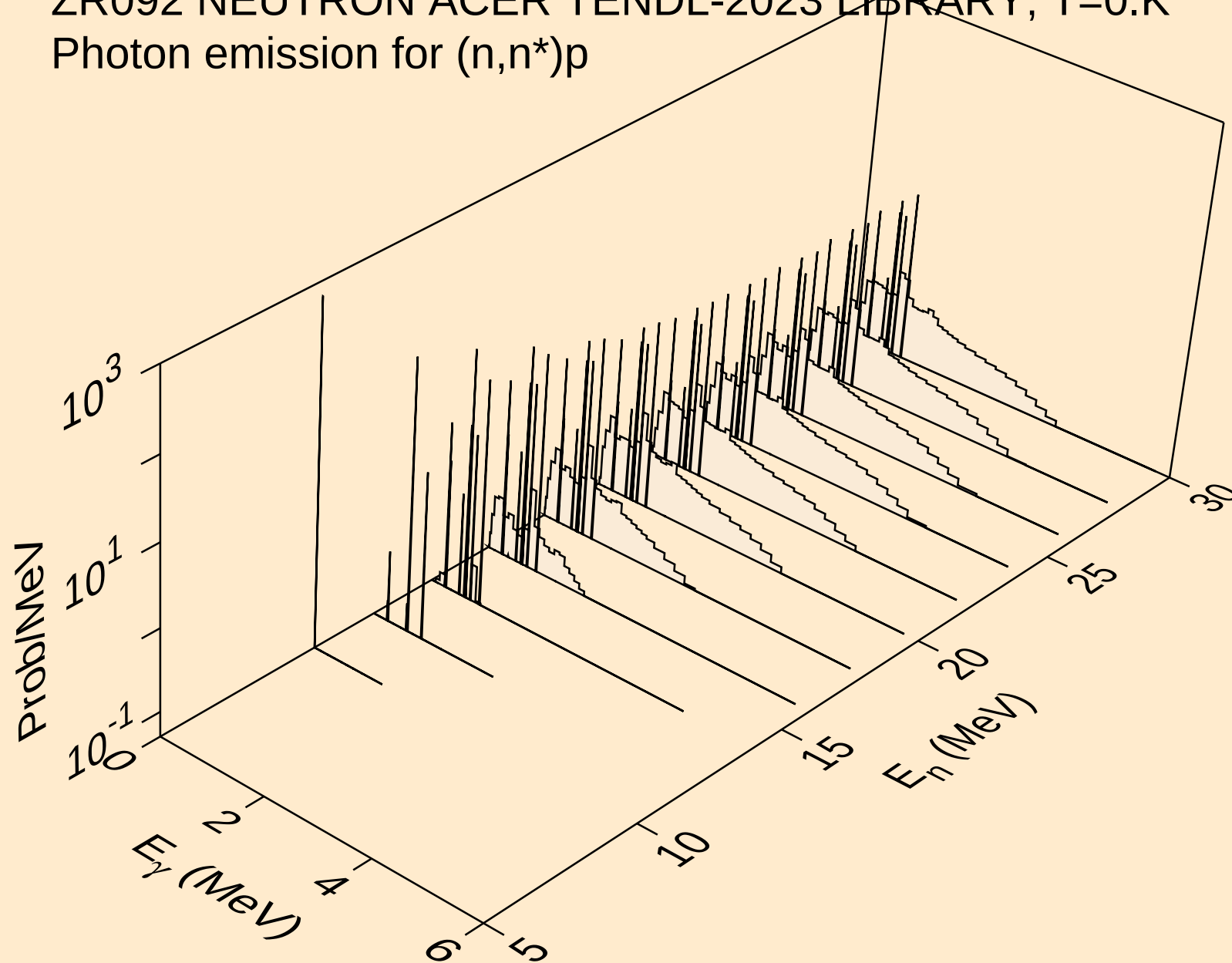
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,3n) $\alpha$



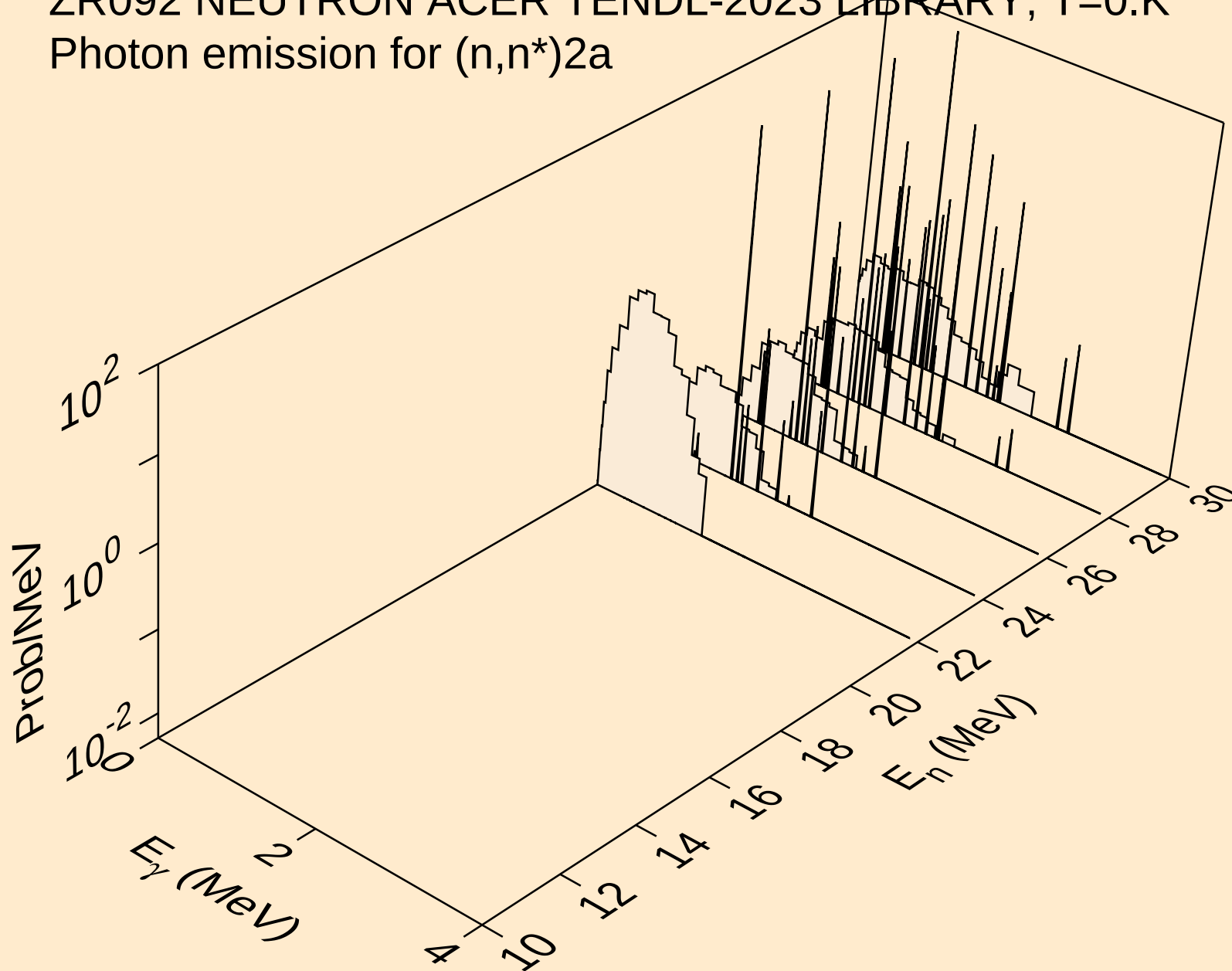
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)p



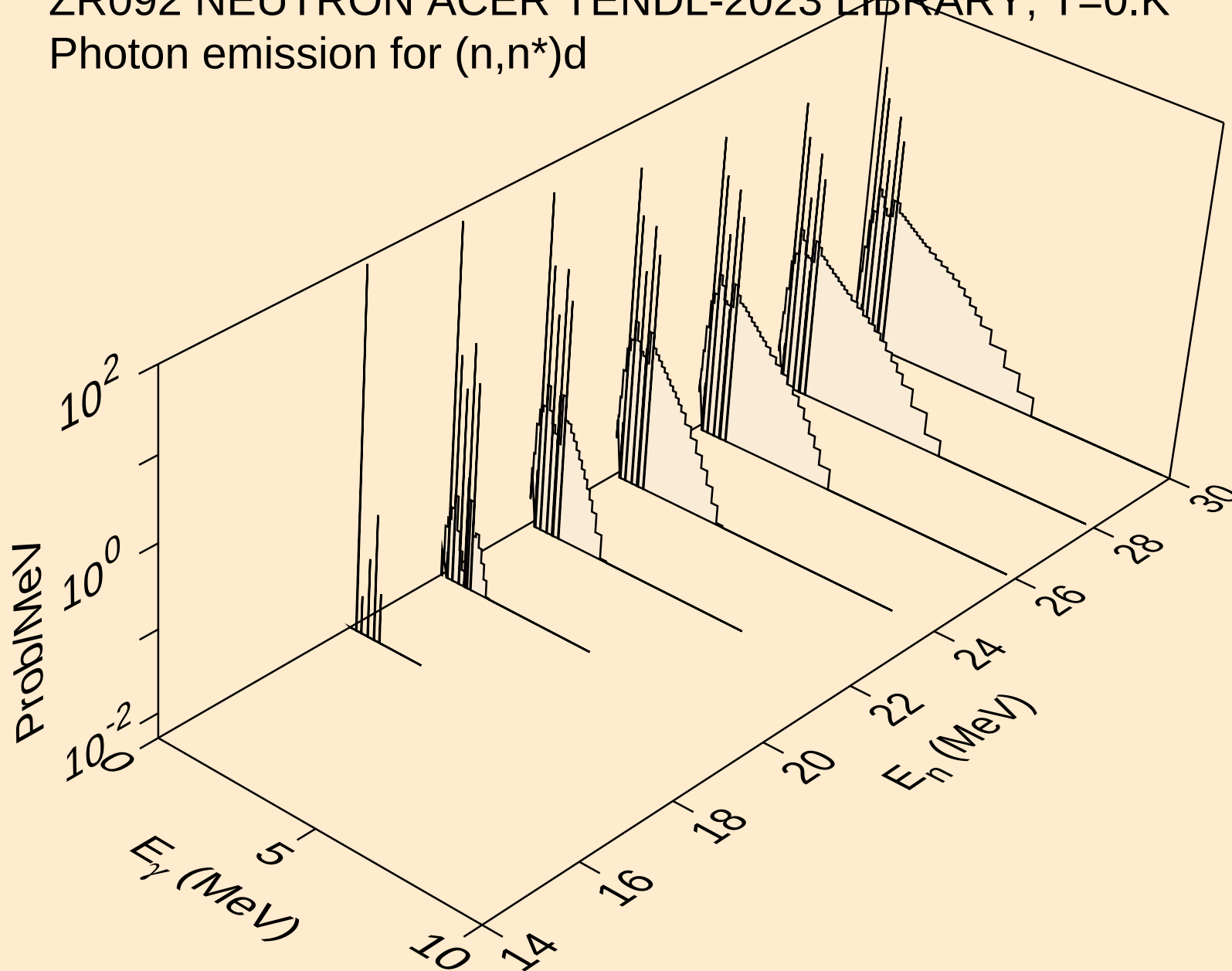
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

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



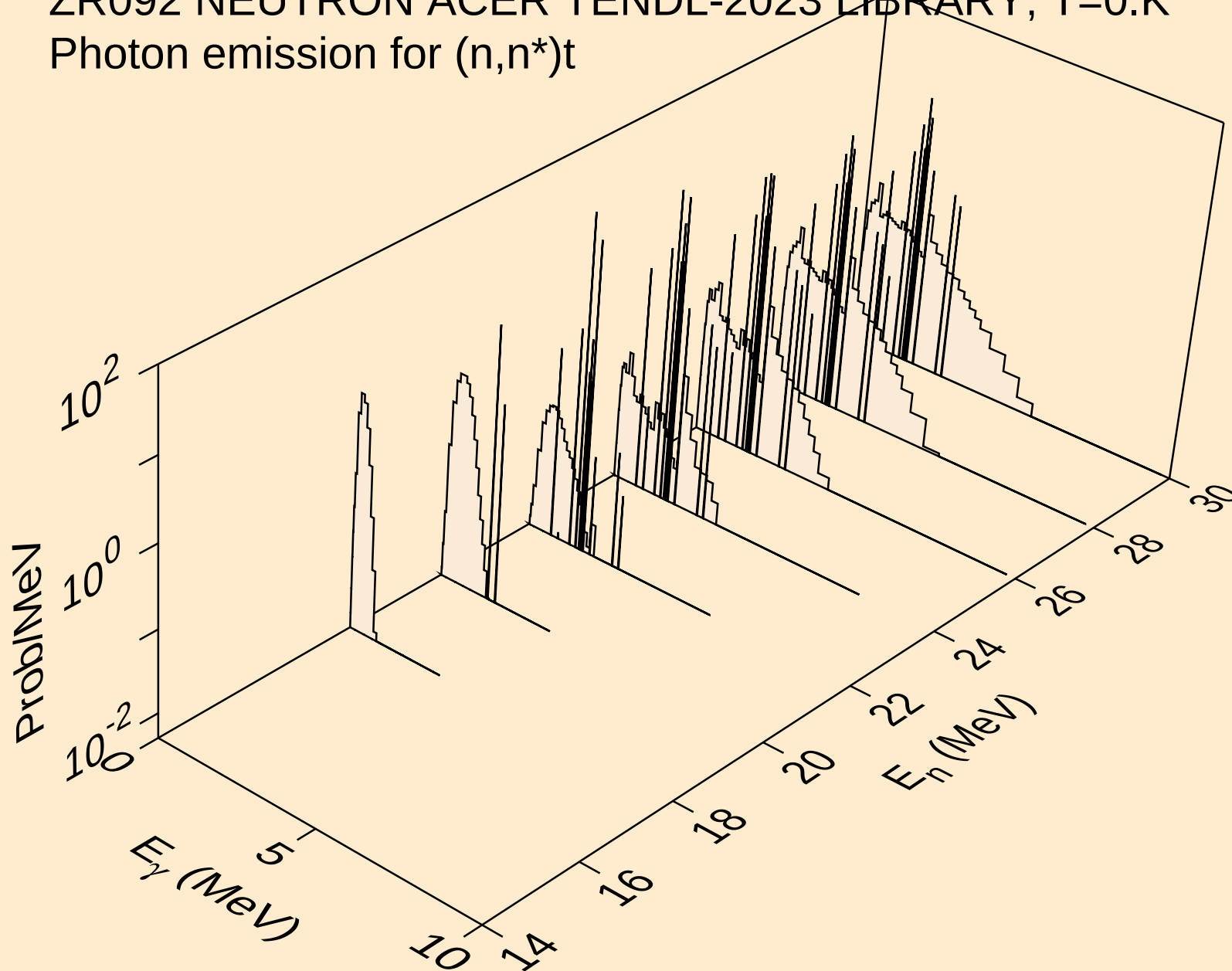
# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)d



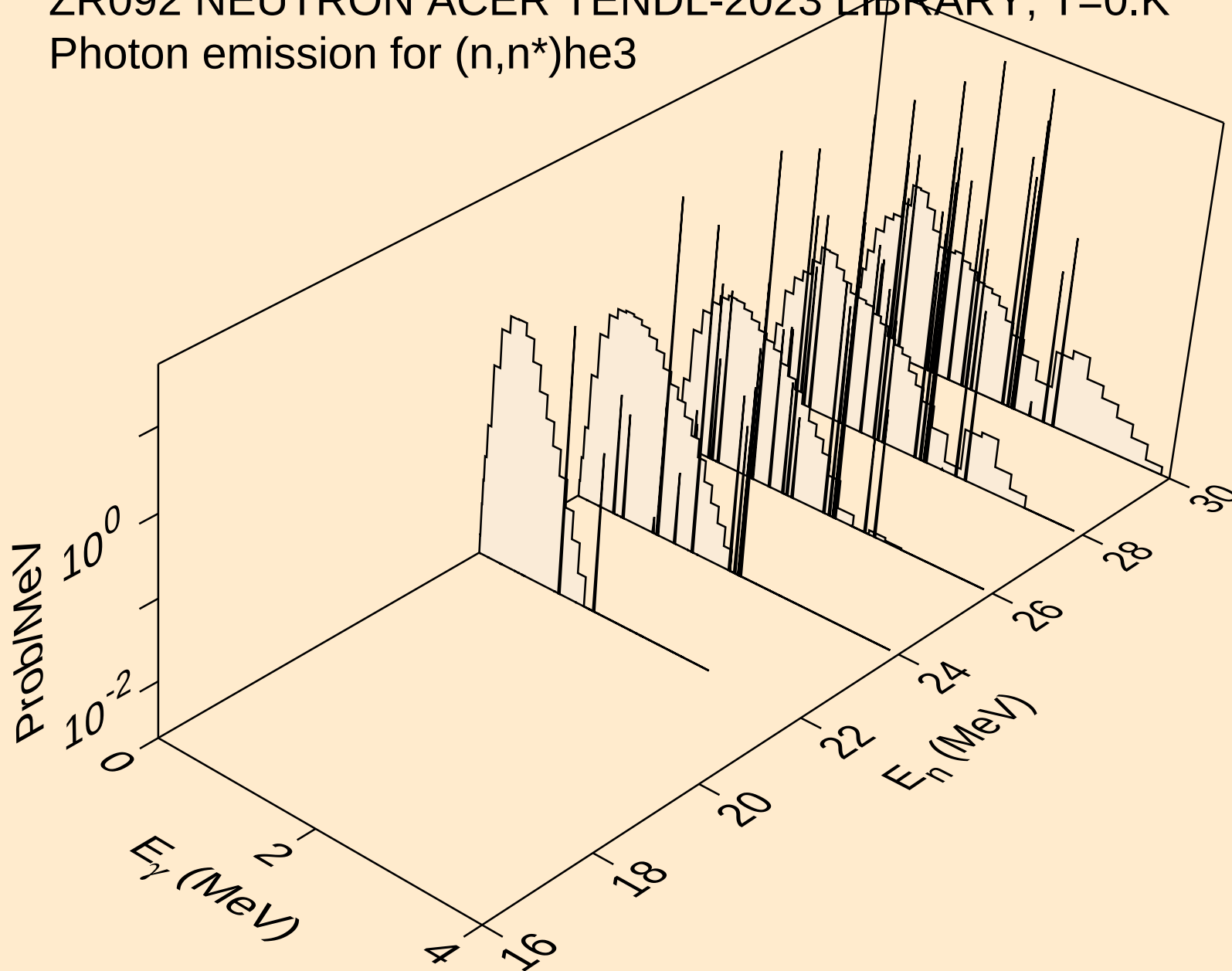
# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)t



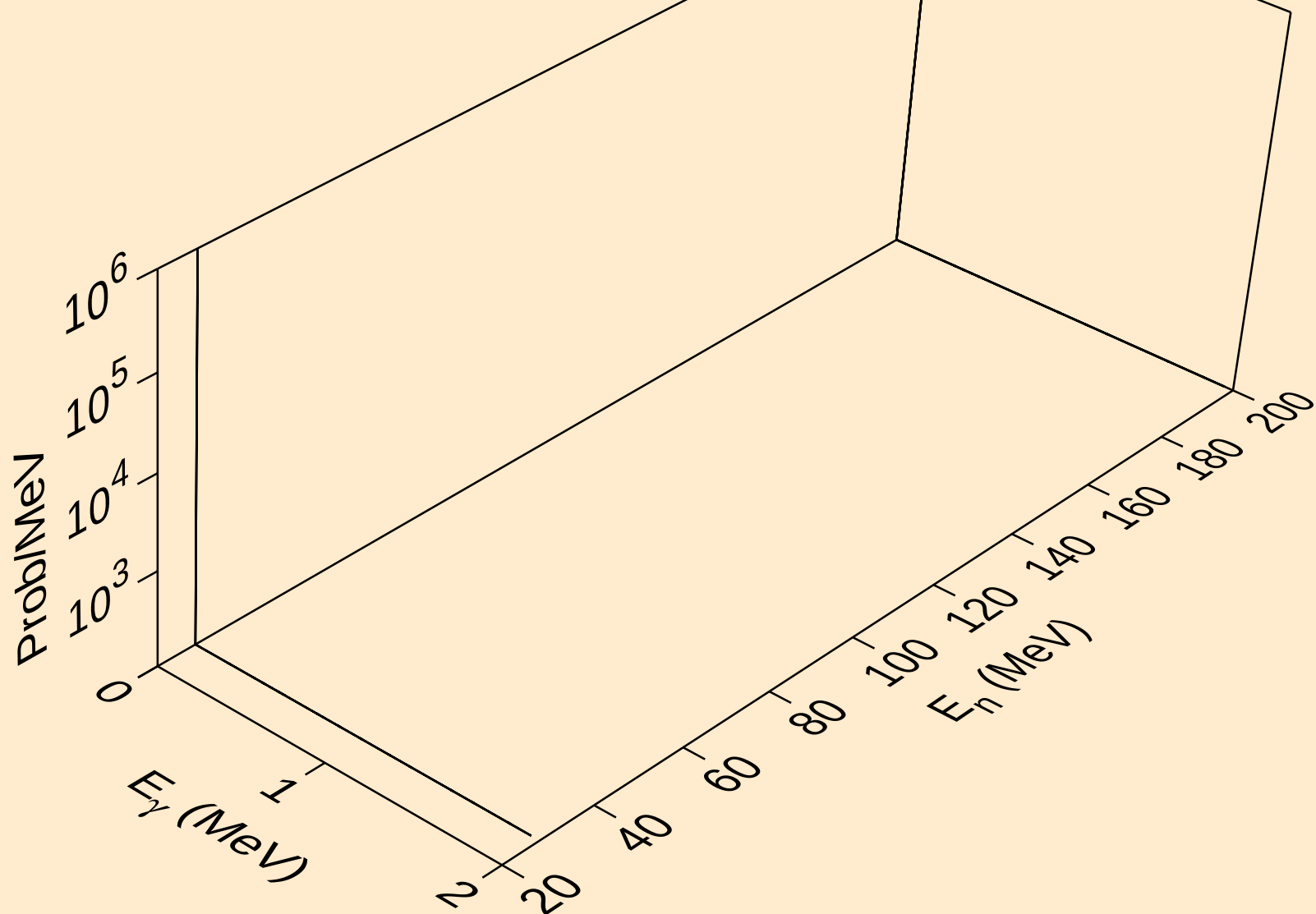
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)he3



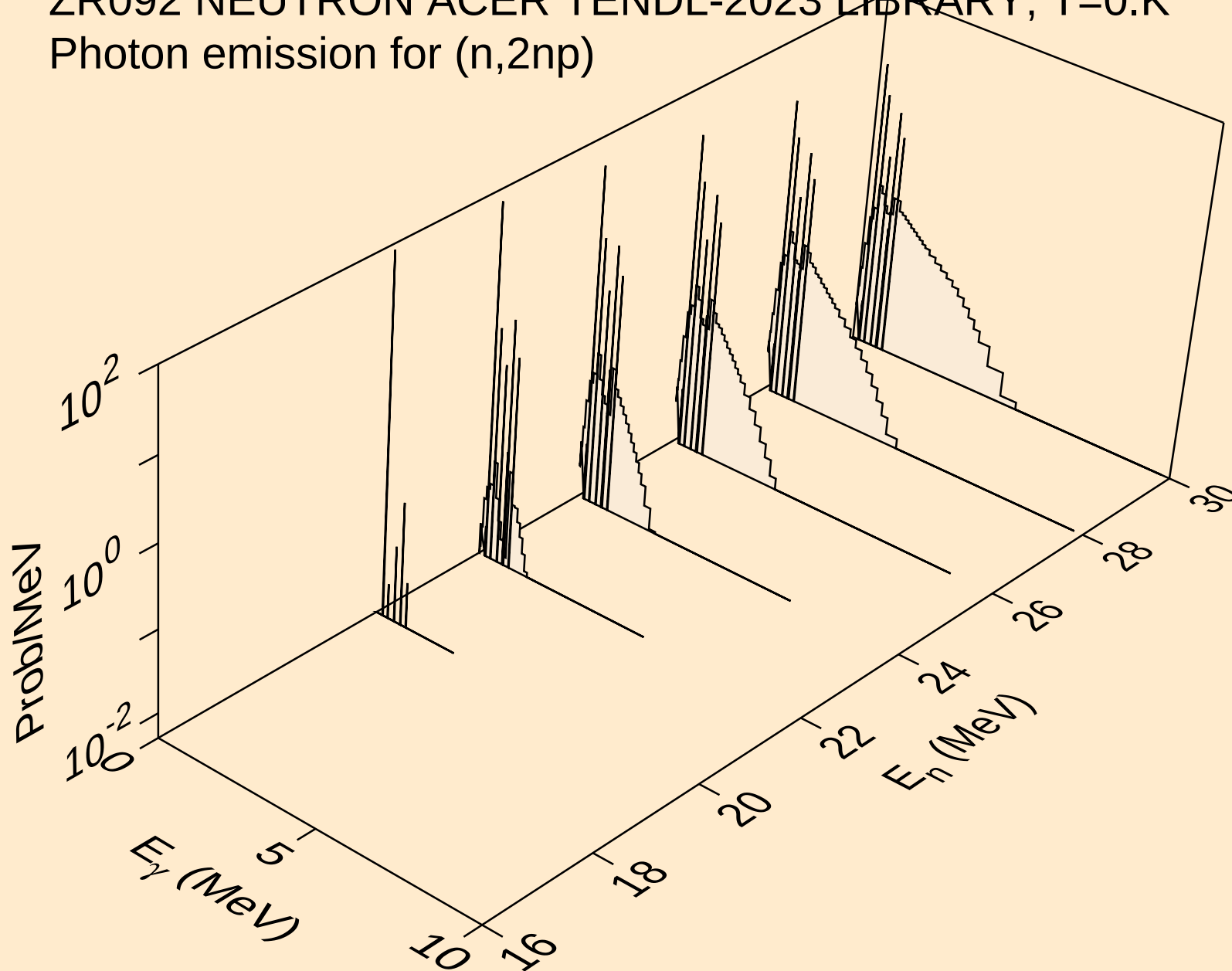
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,4n)



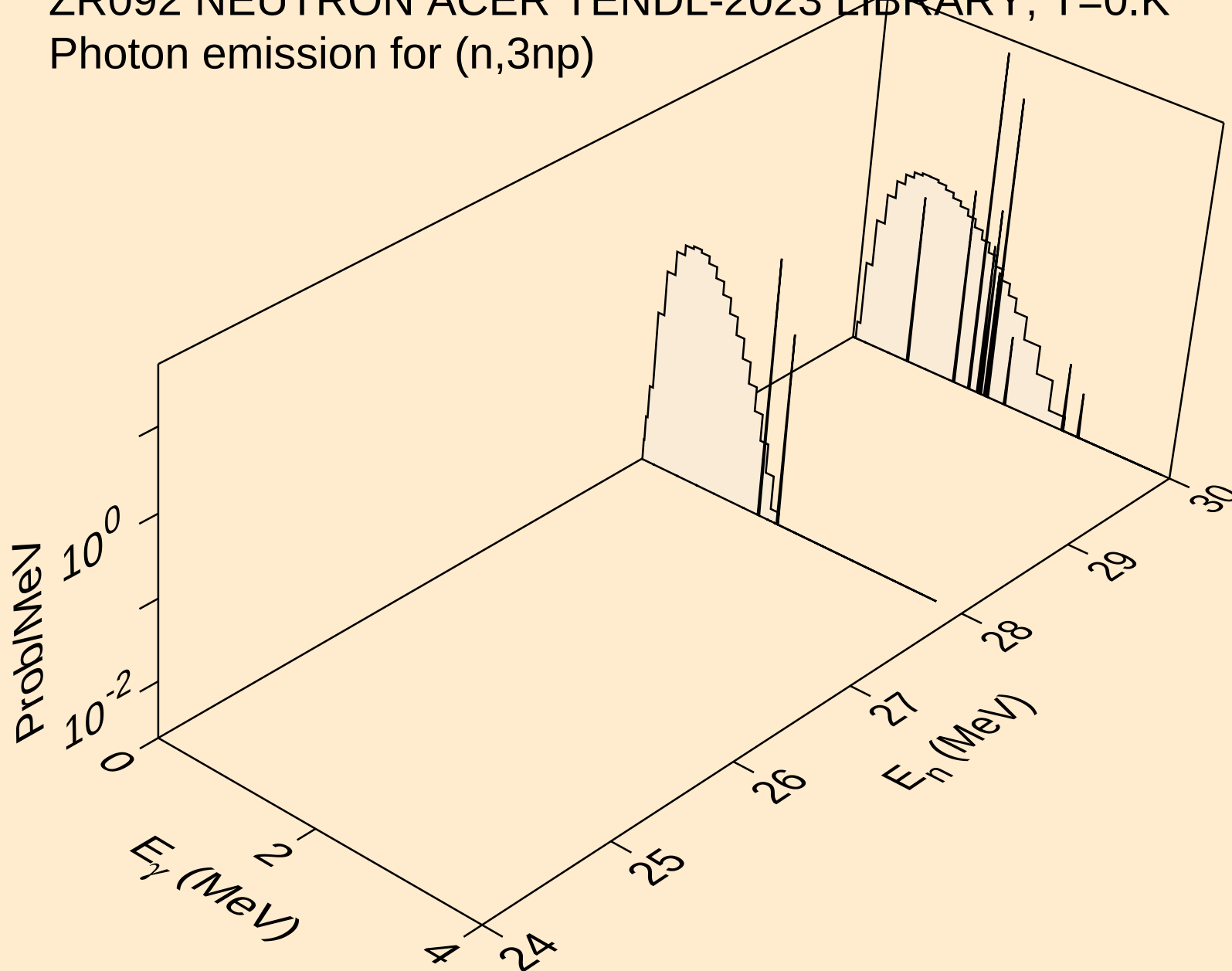
# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,2np)

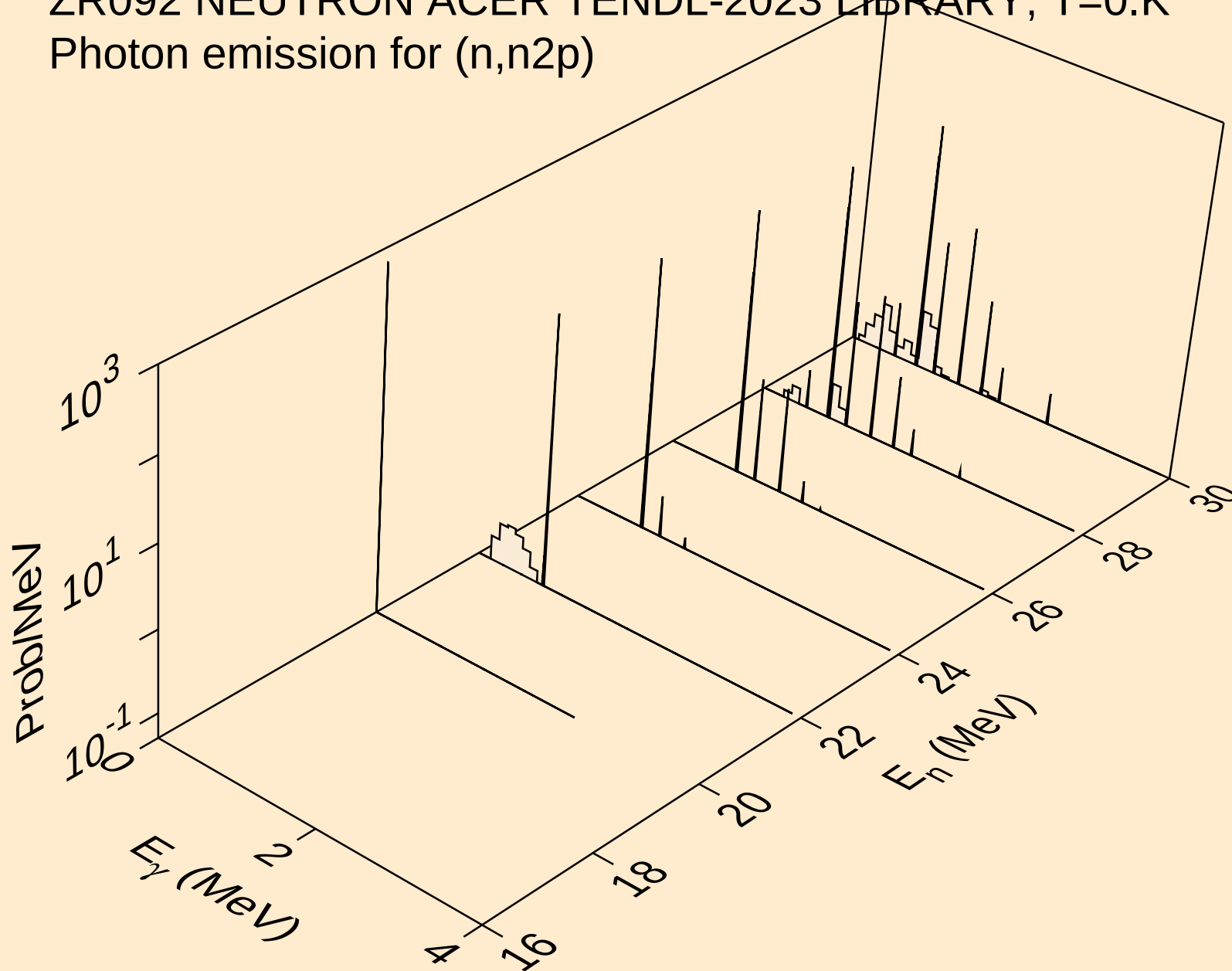


ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

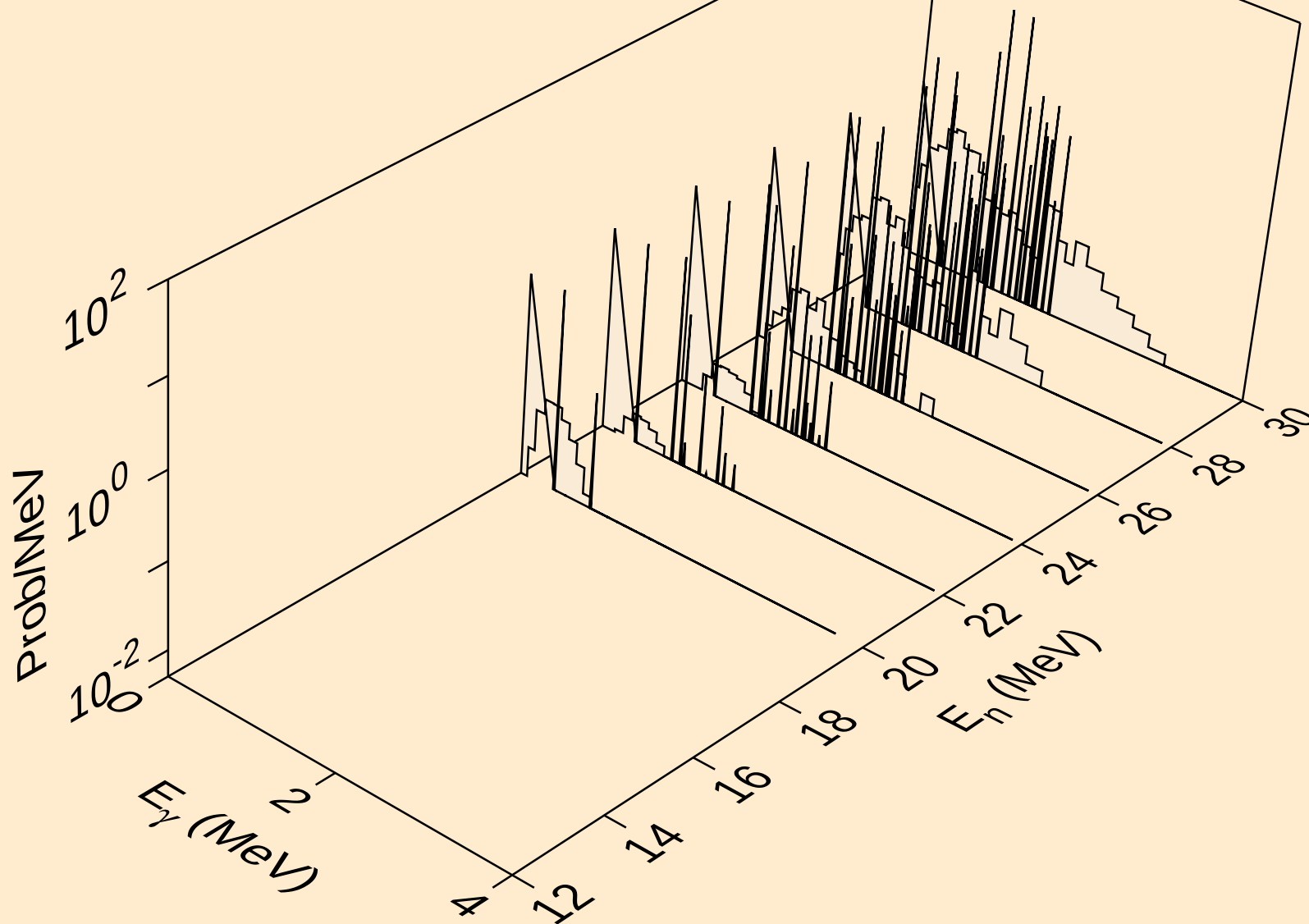
Photon emission for (n,3np)



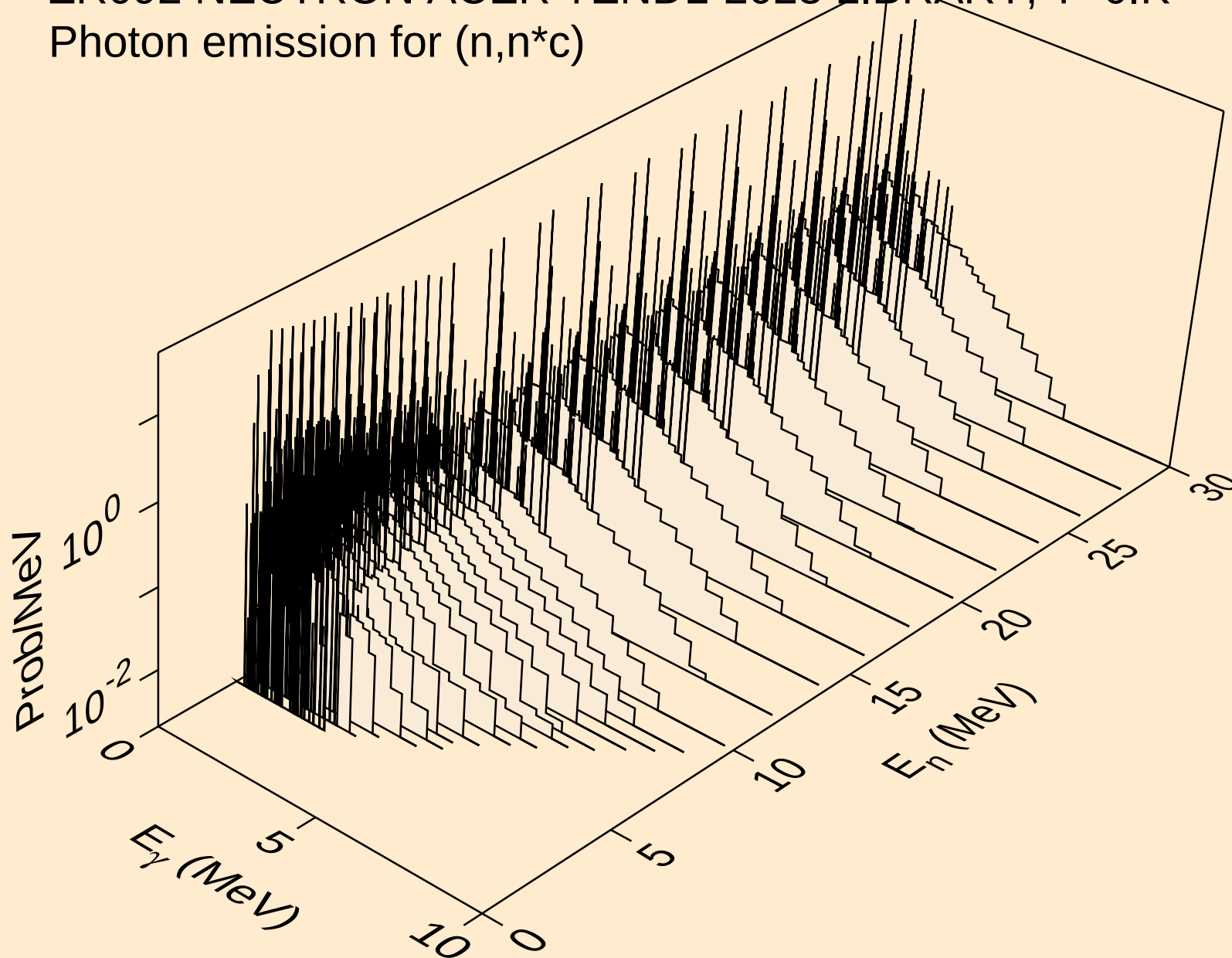
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Photon emission for (n,n2p)



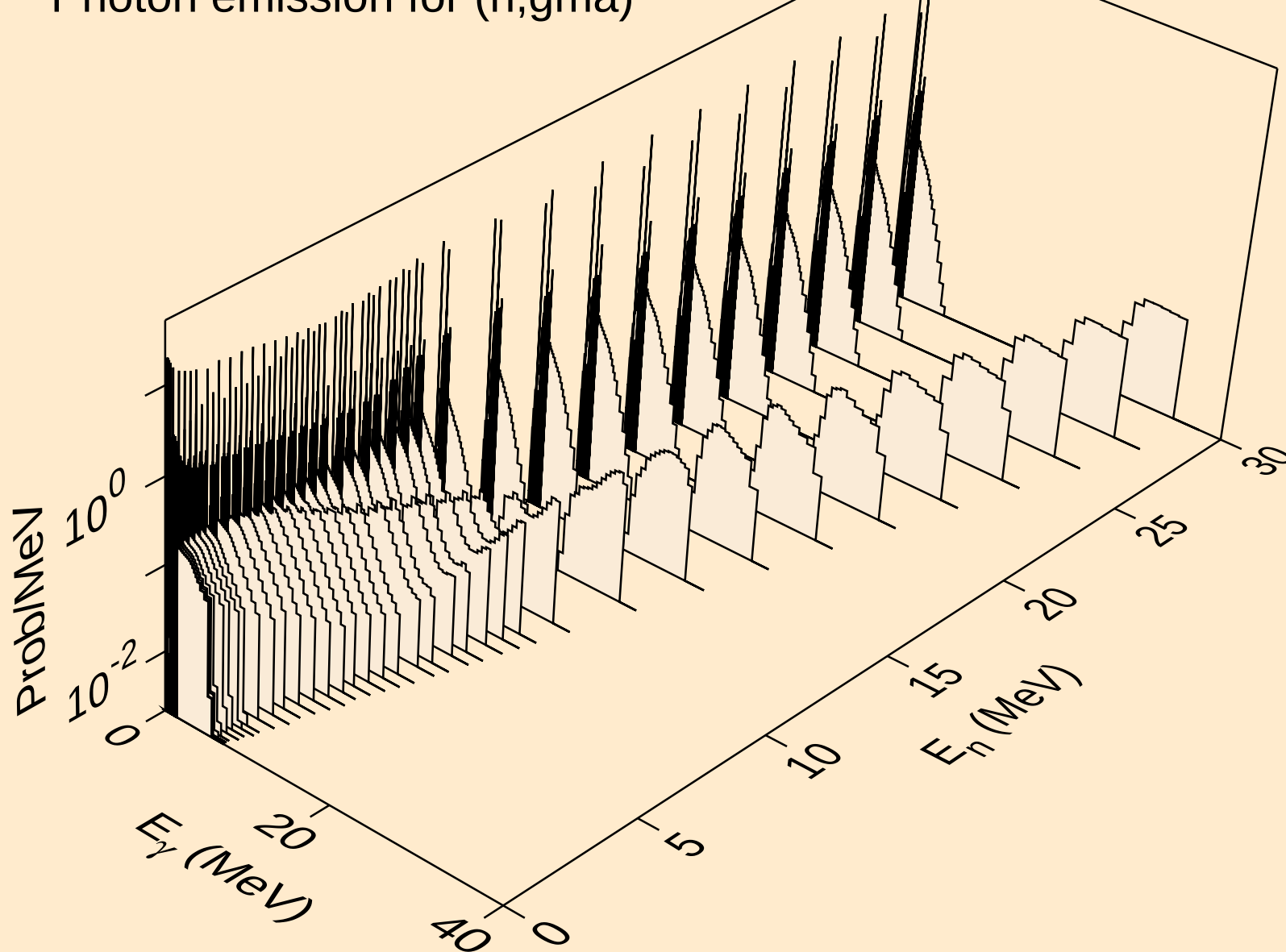
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Photon emission for (n,npa)



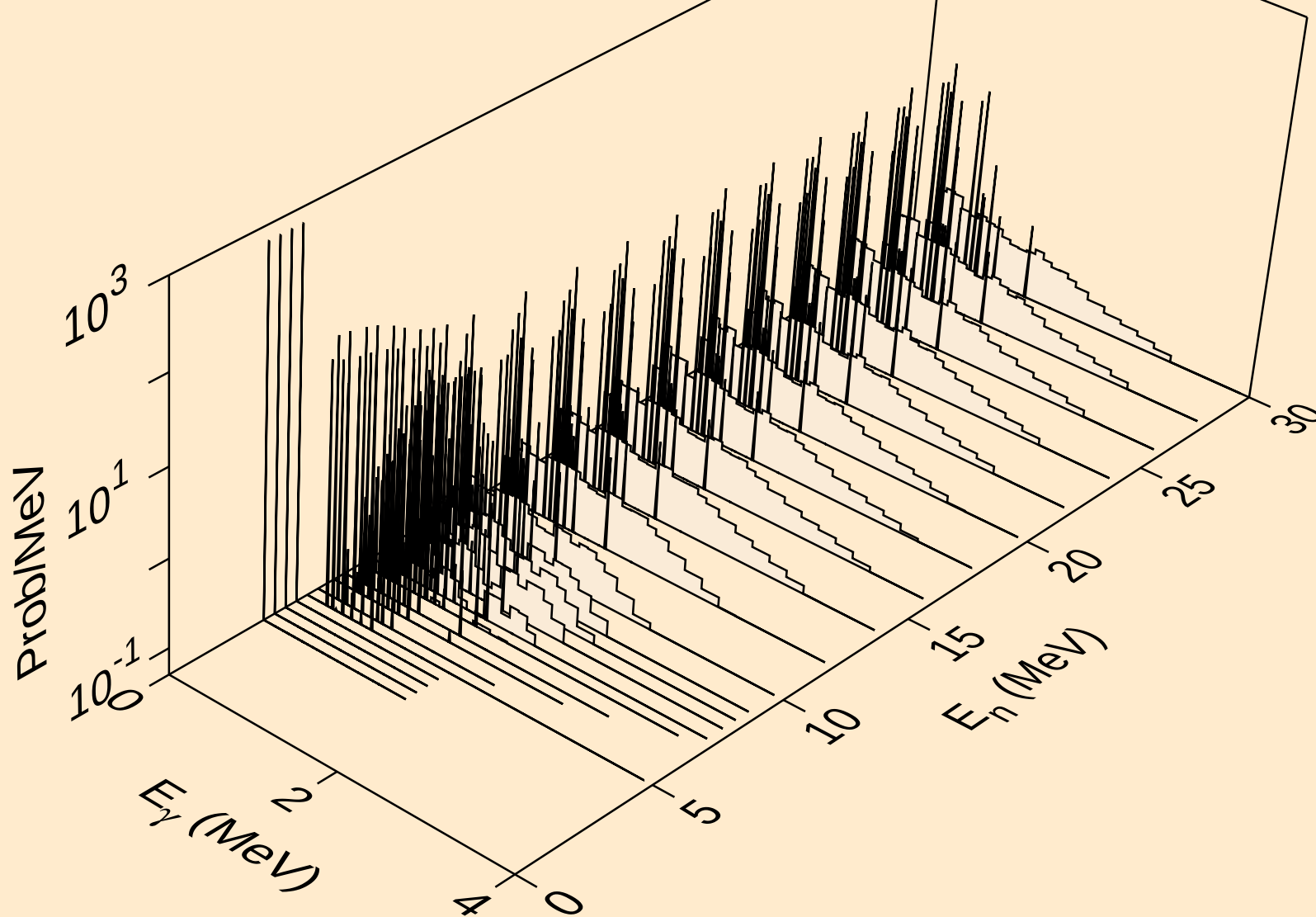
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Photon emission for (n,n\*c)



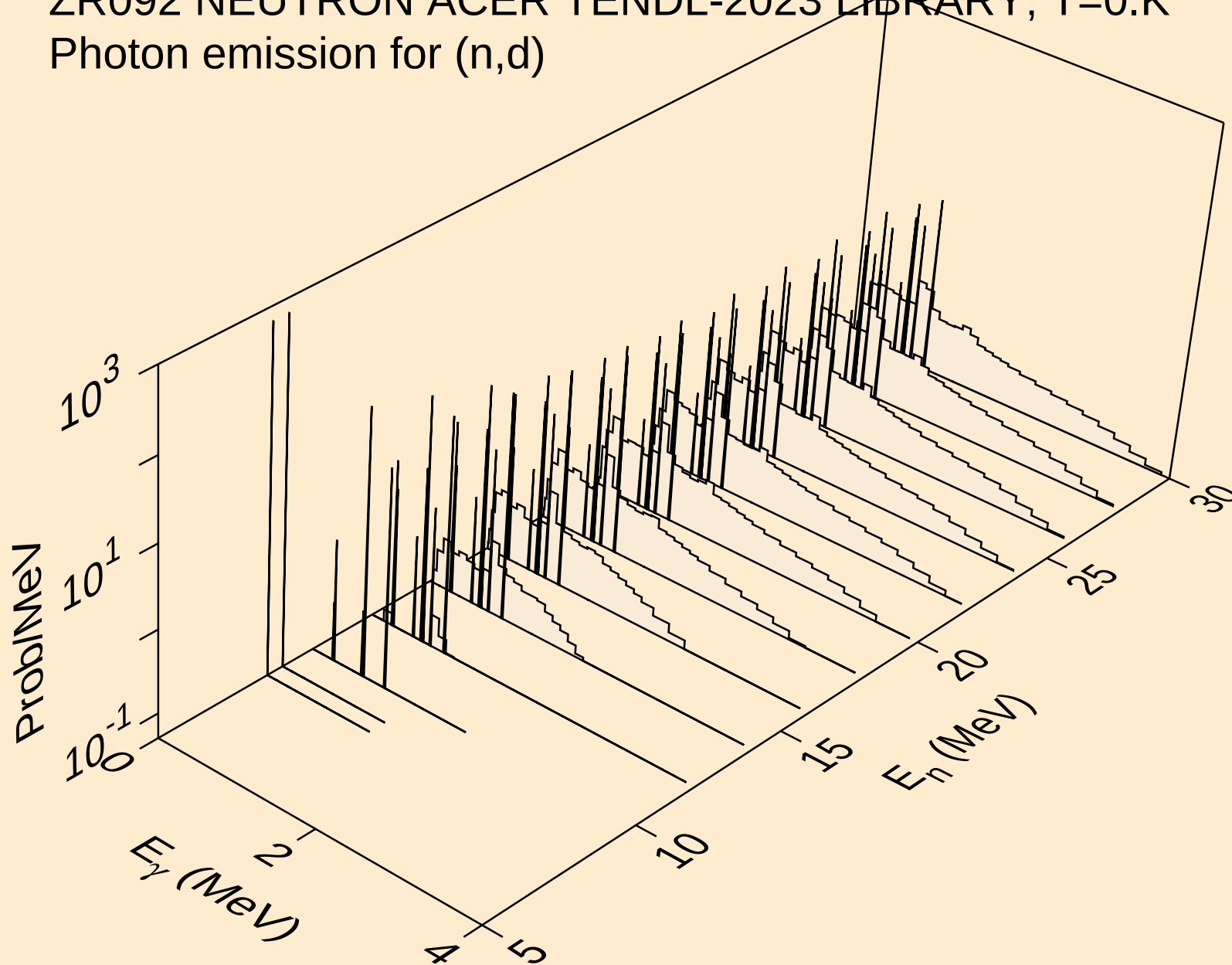
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Photon emission for (n,gma)



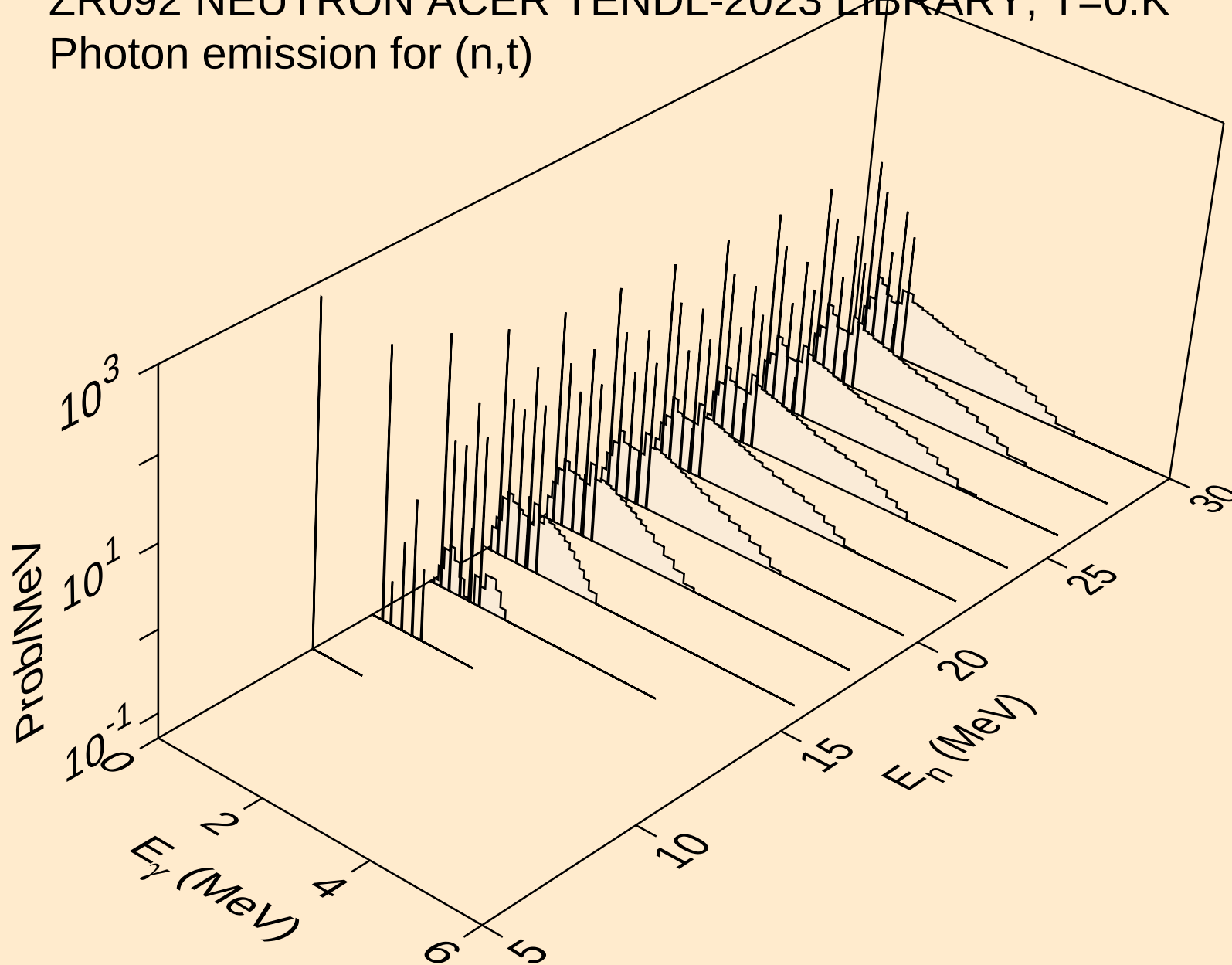
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Photon emission for (n,p)



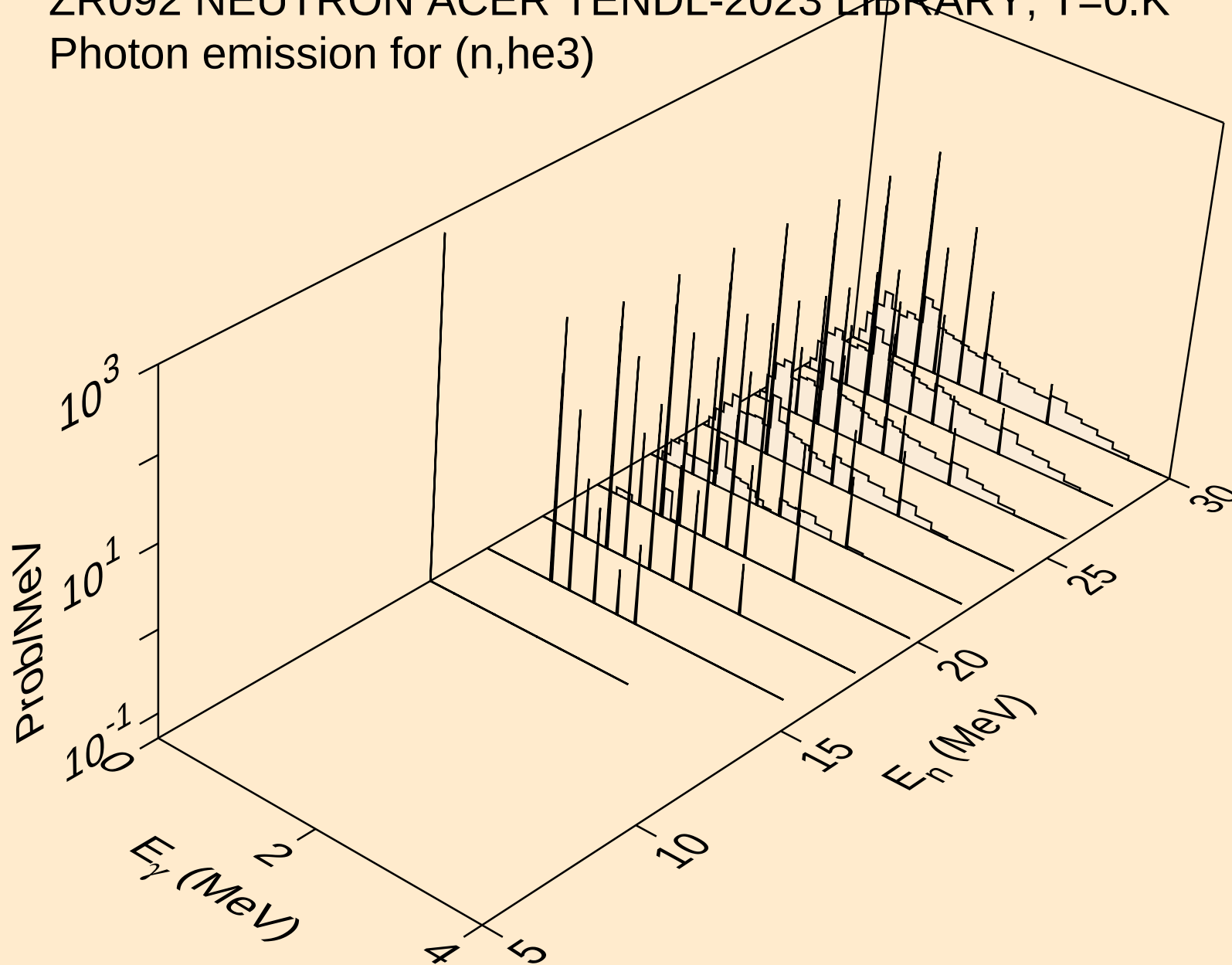
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Photon emission for (n,d)



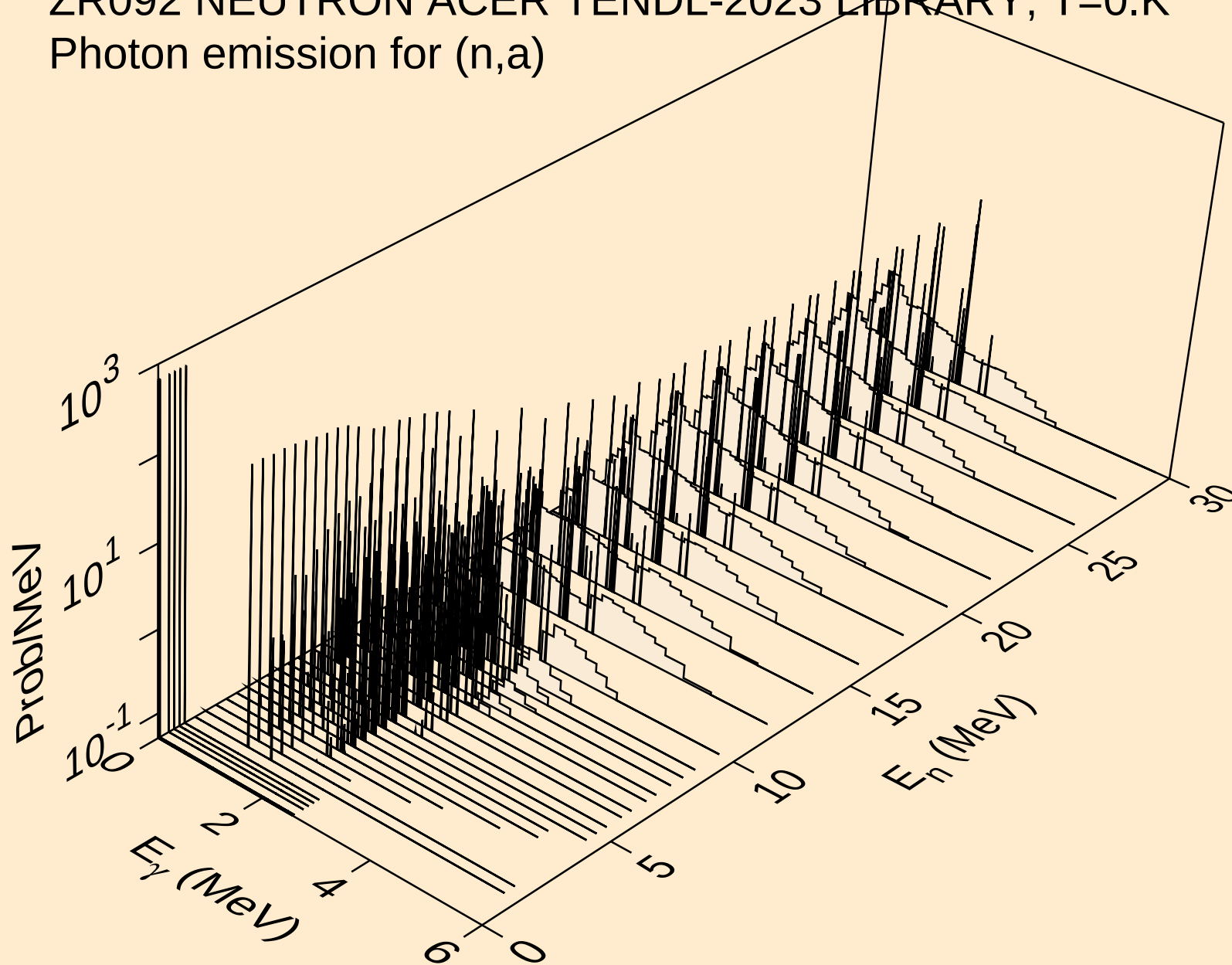
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Photon emission for (n,t)



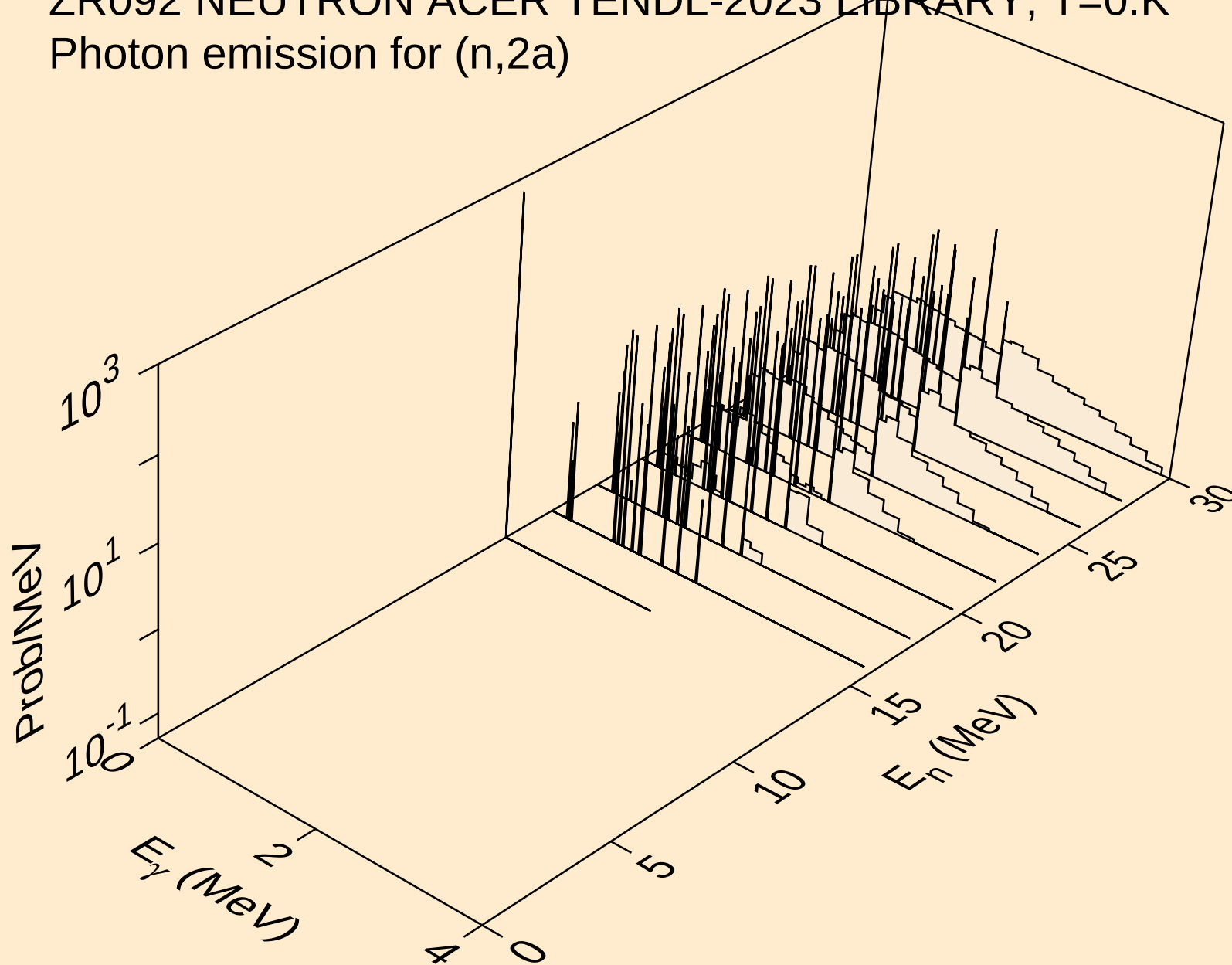
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Photon emission for (n,he3)



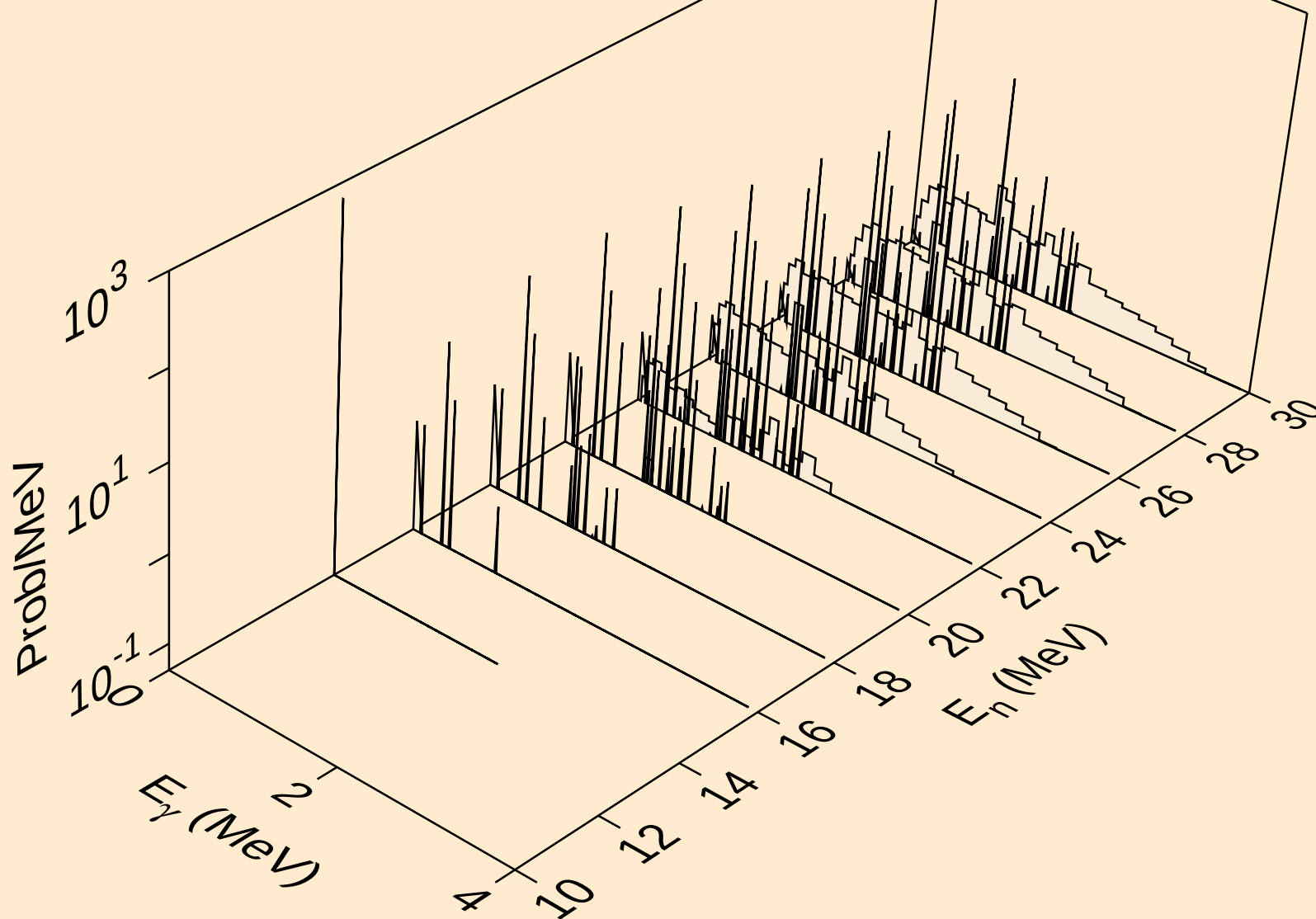
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)

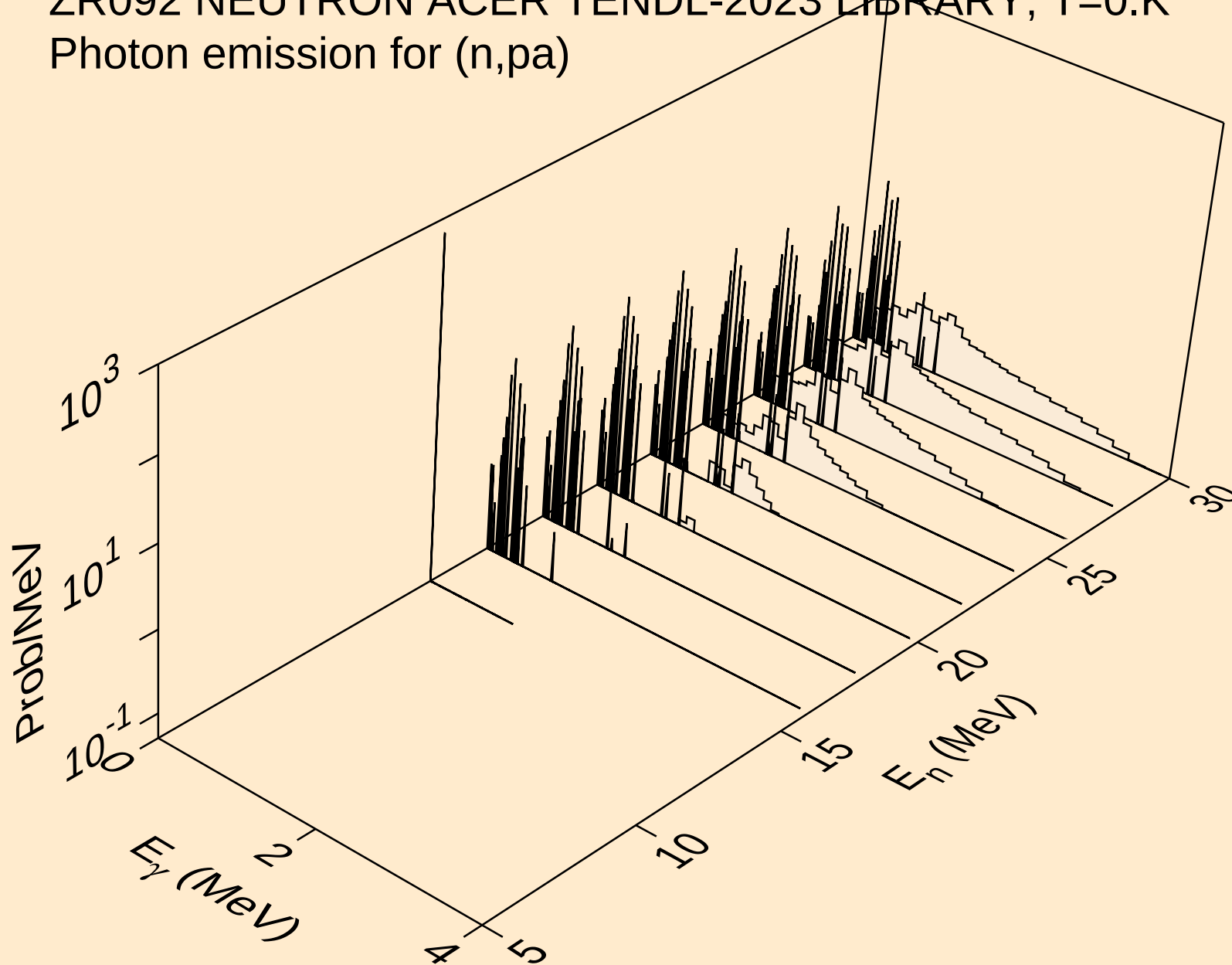


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Photon emission for (n,2p)

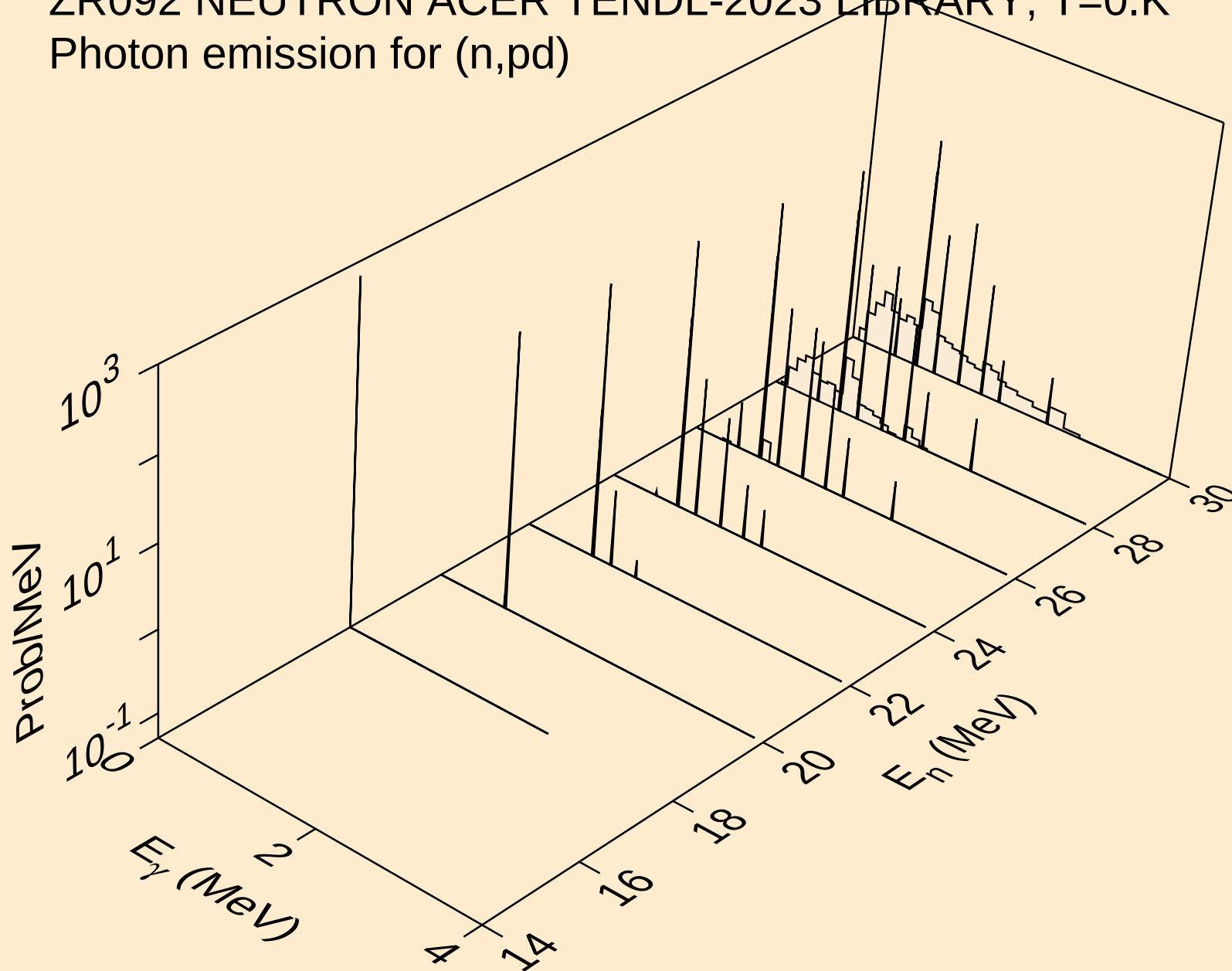


# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

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

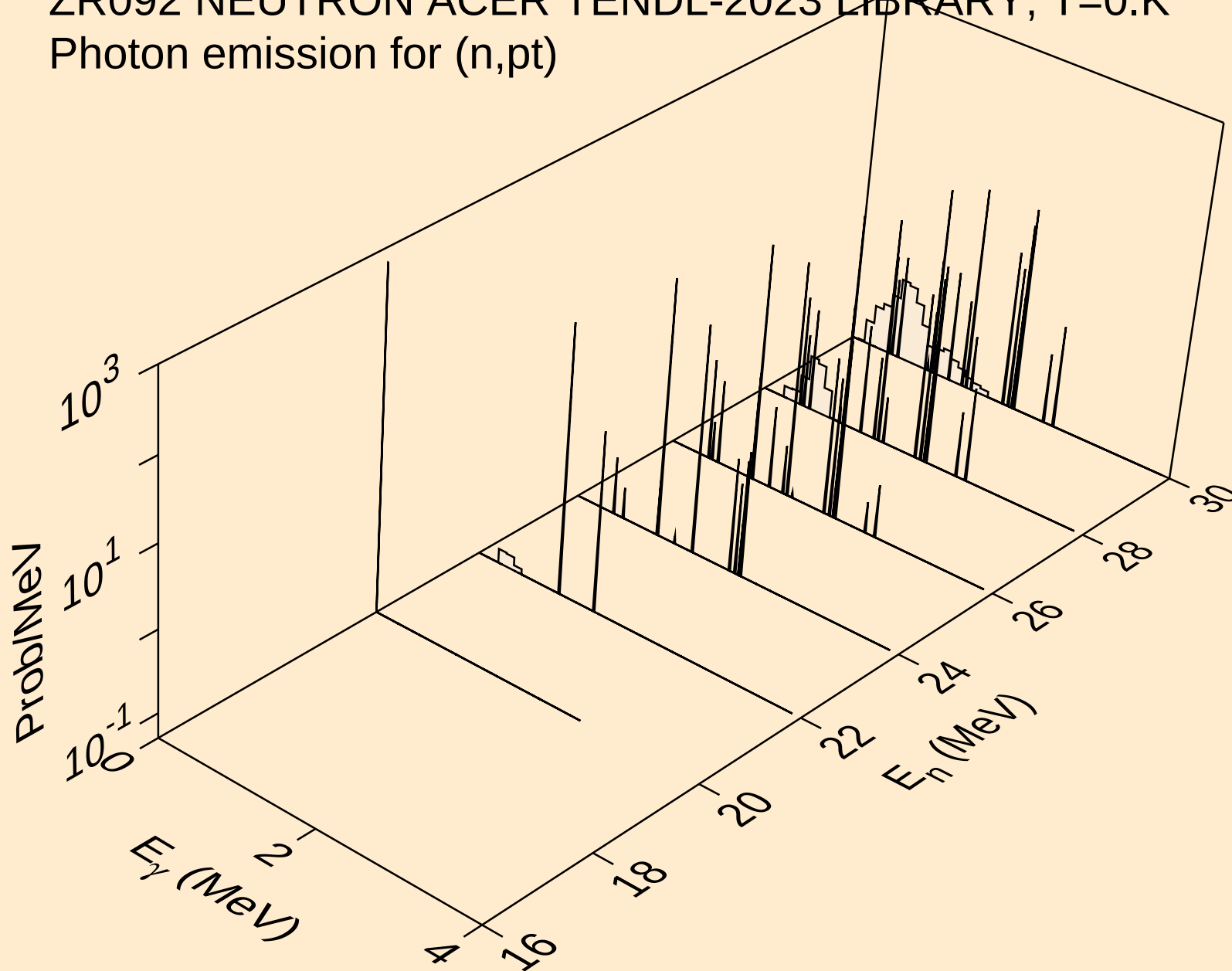


ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

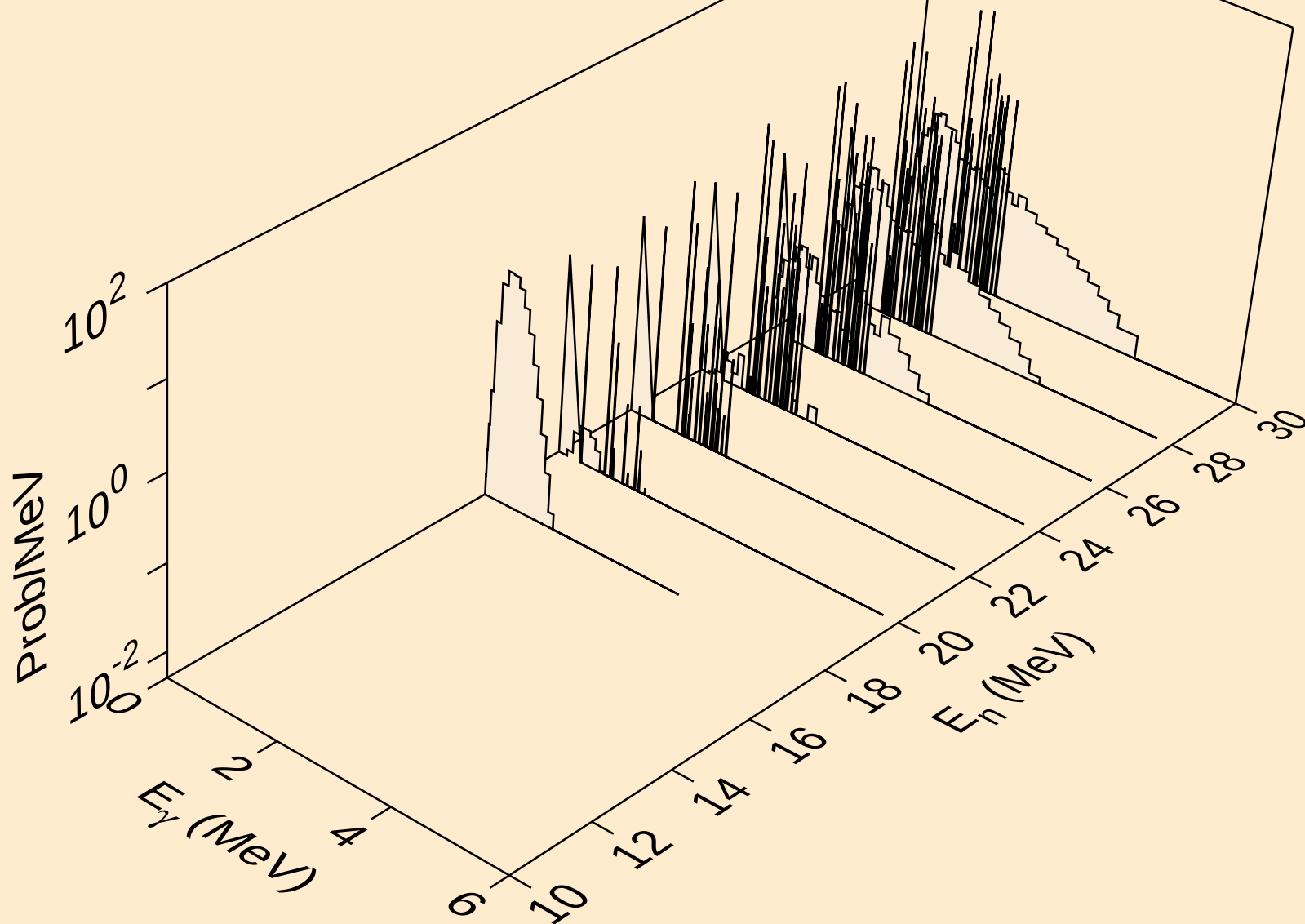


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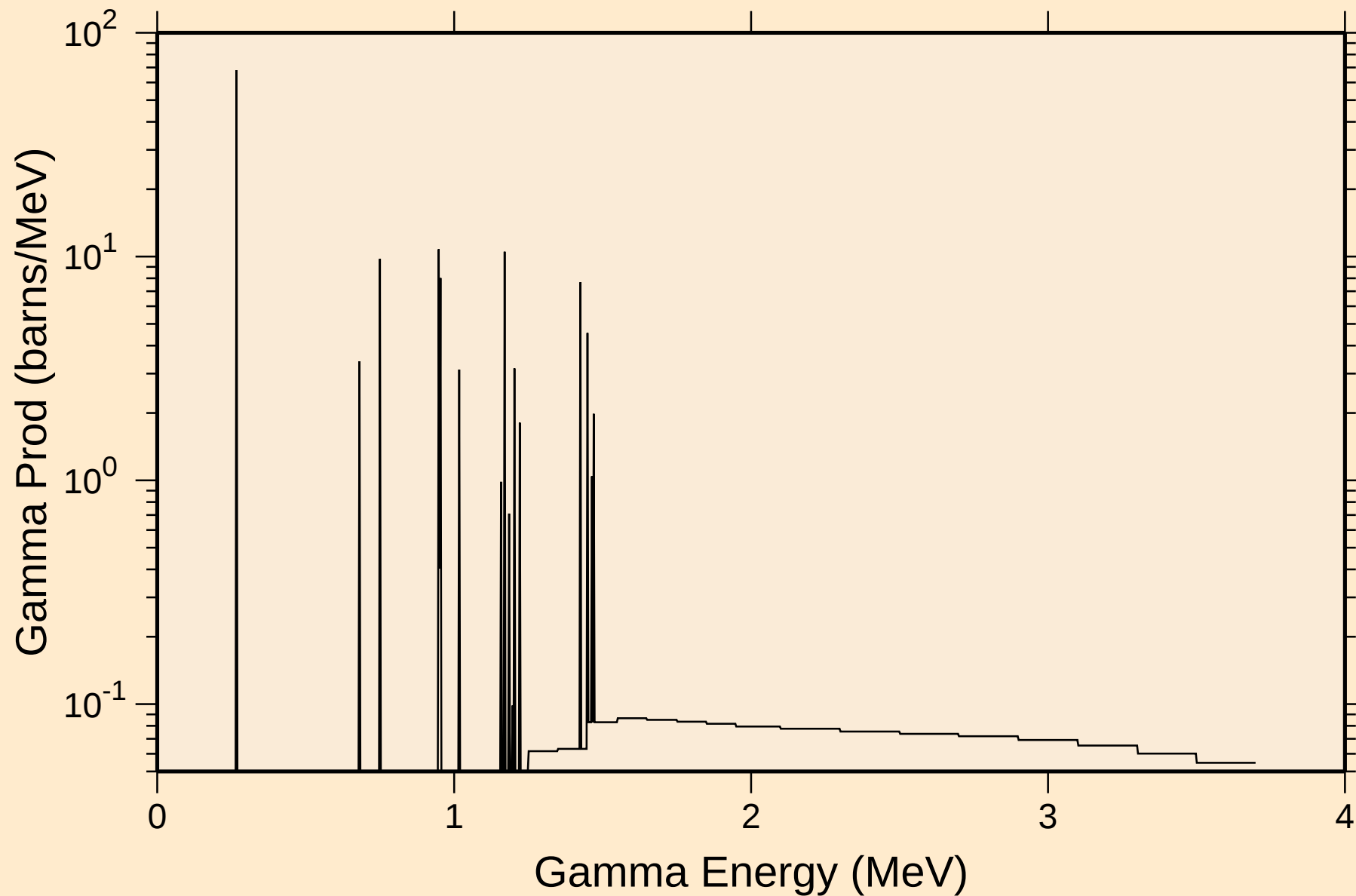
Photon emission for (n,pt)



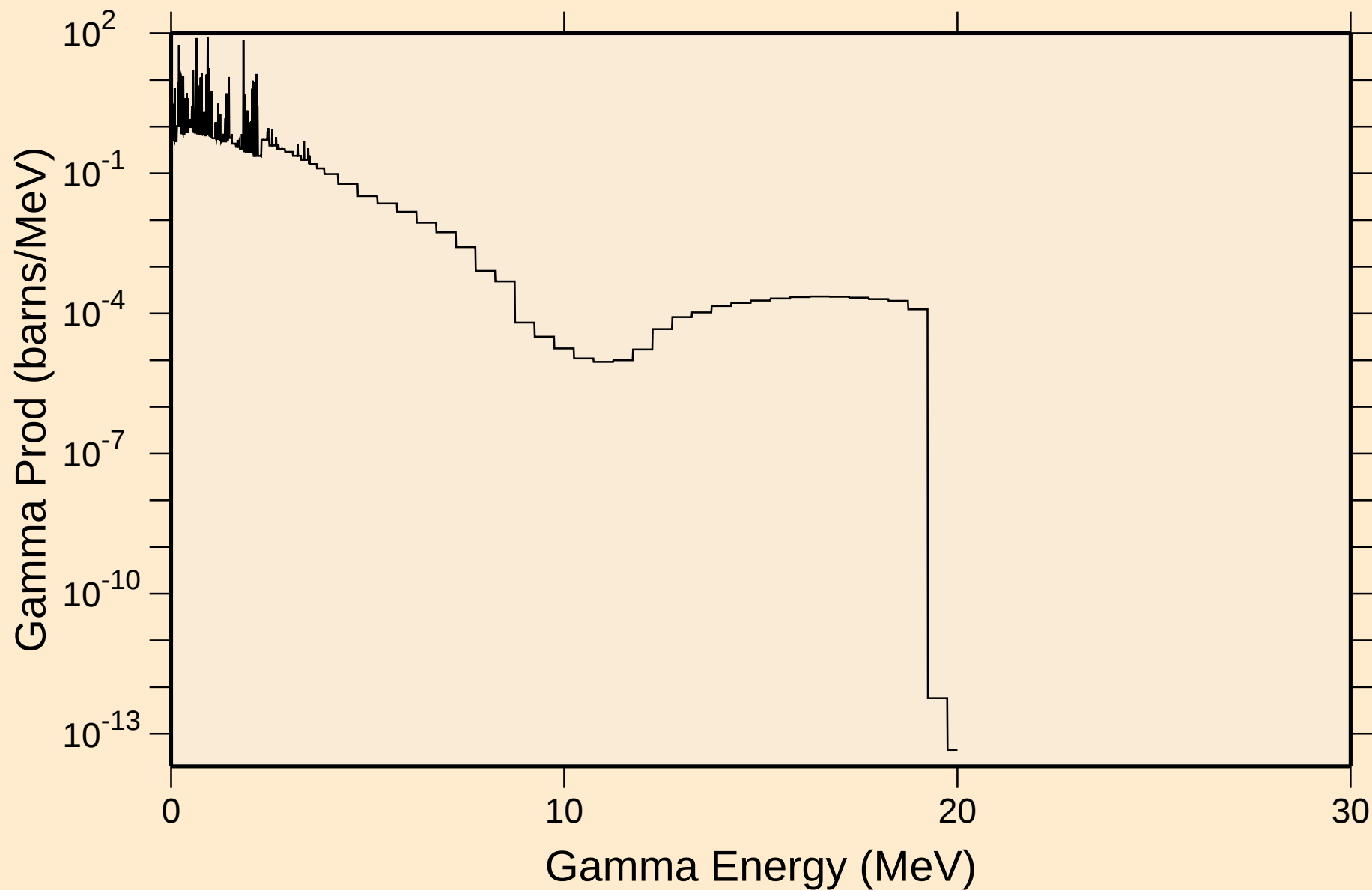
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

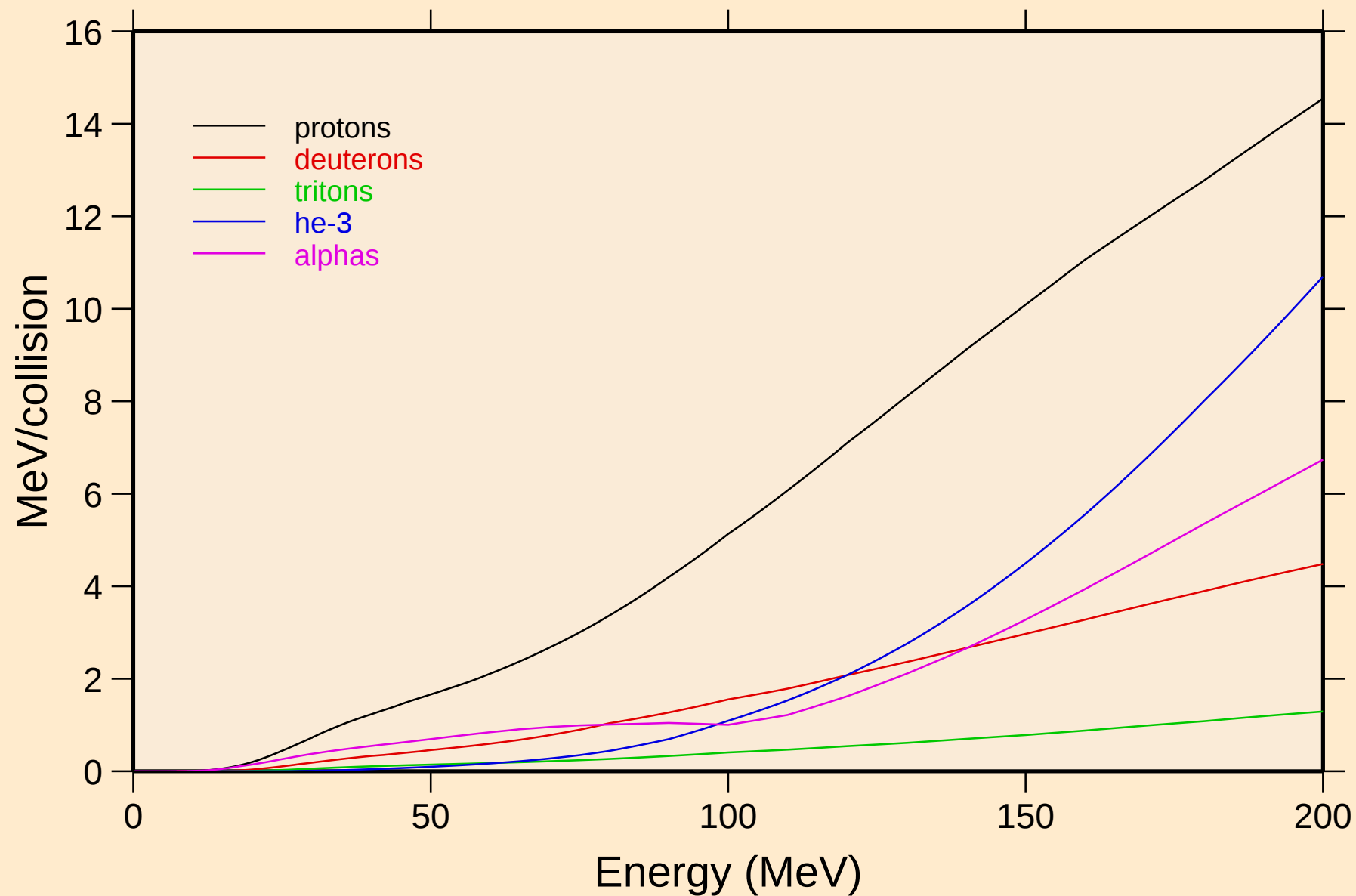


ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

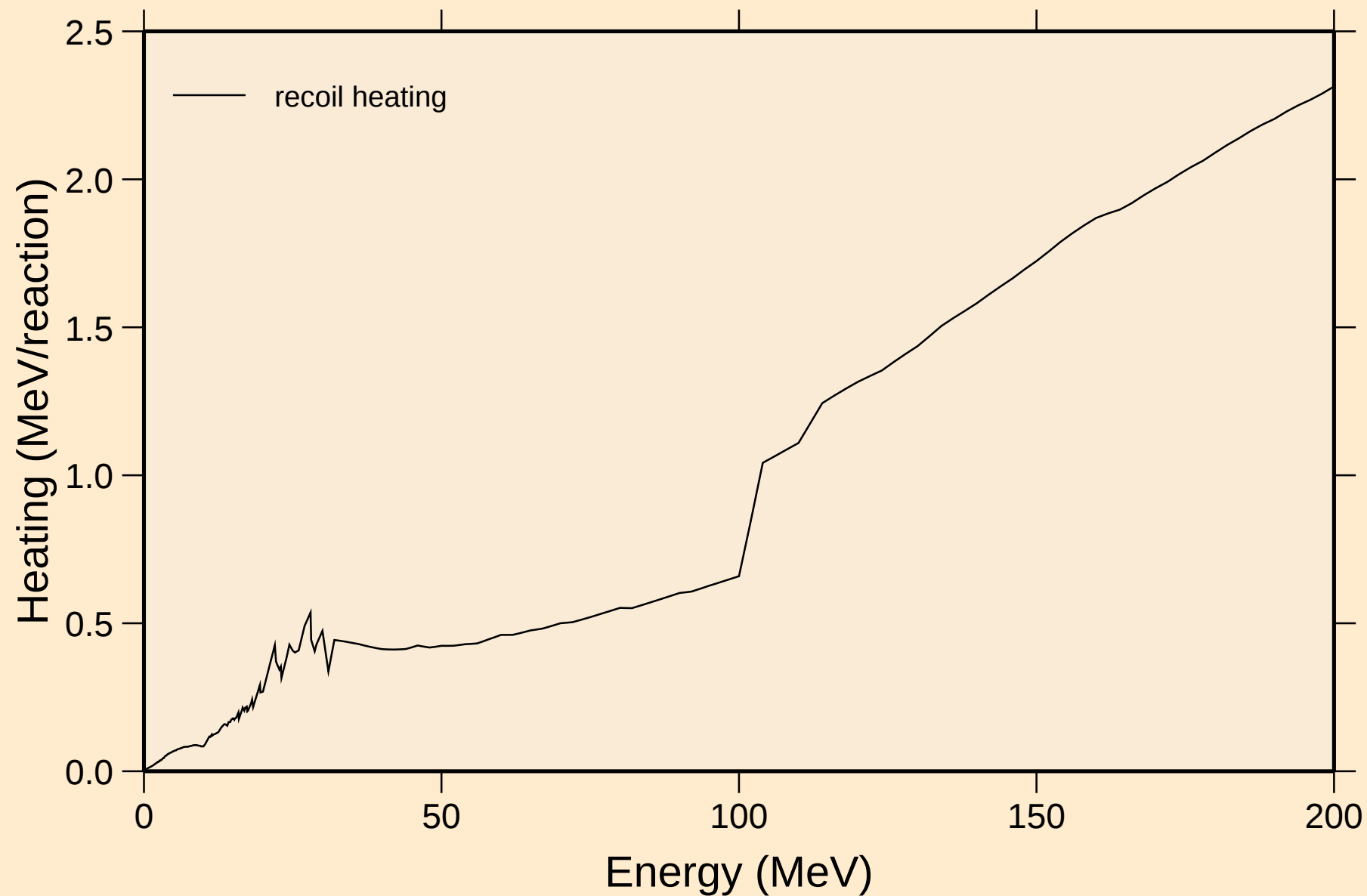


# ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

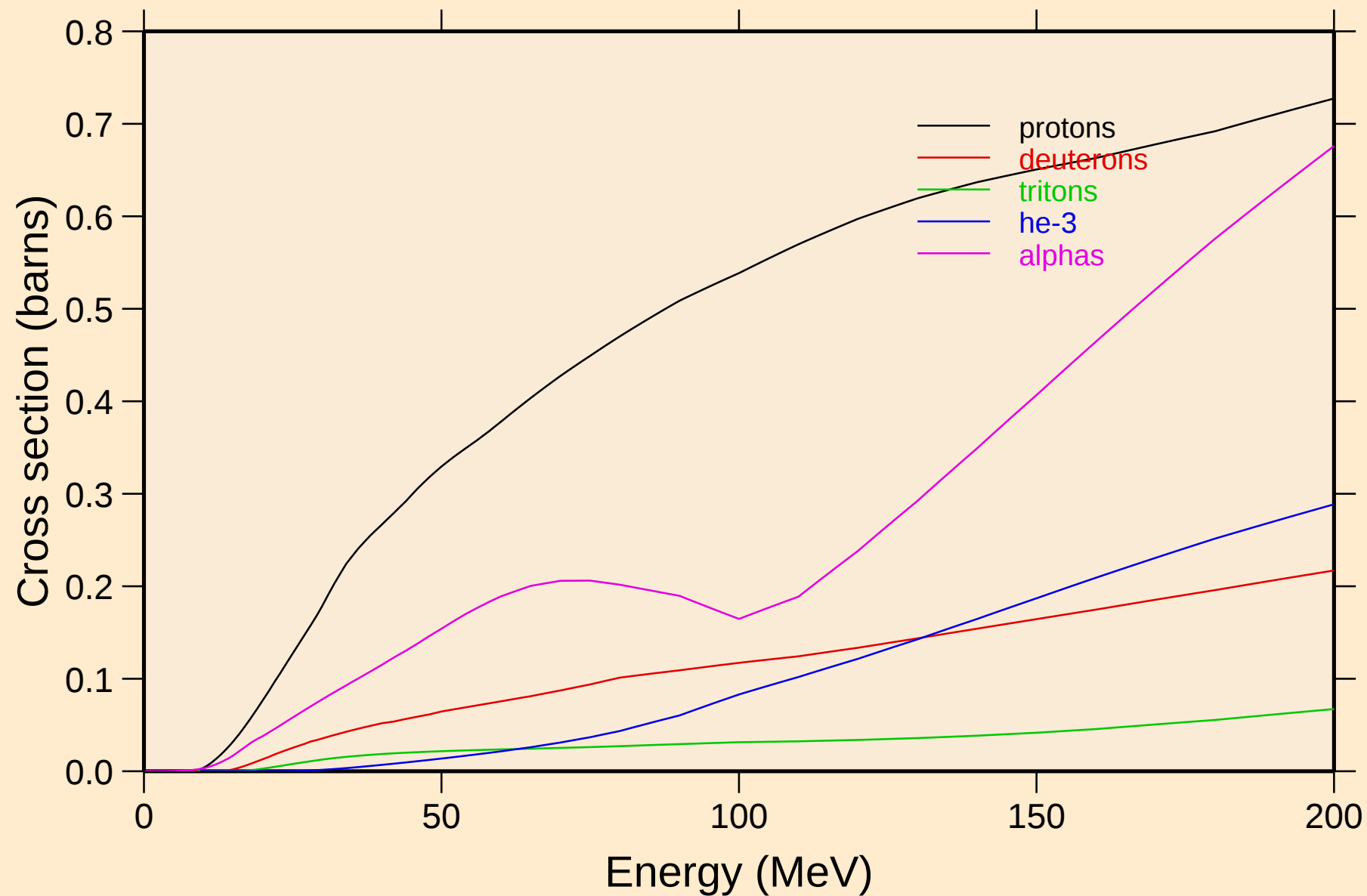


ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

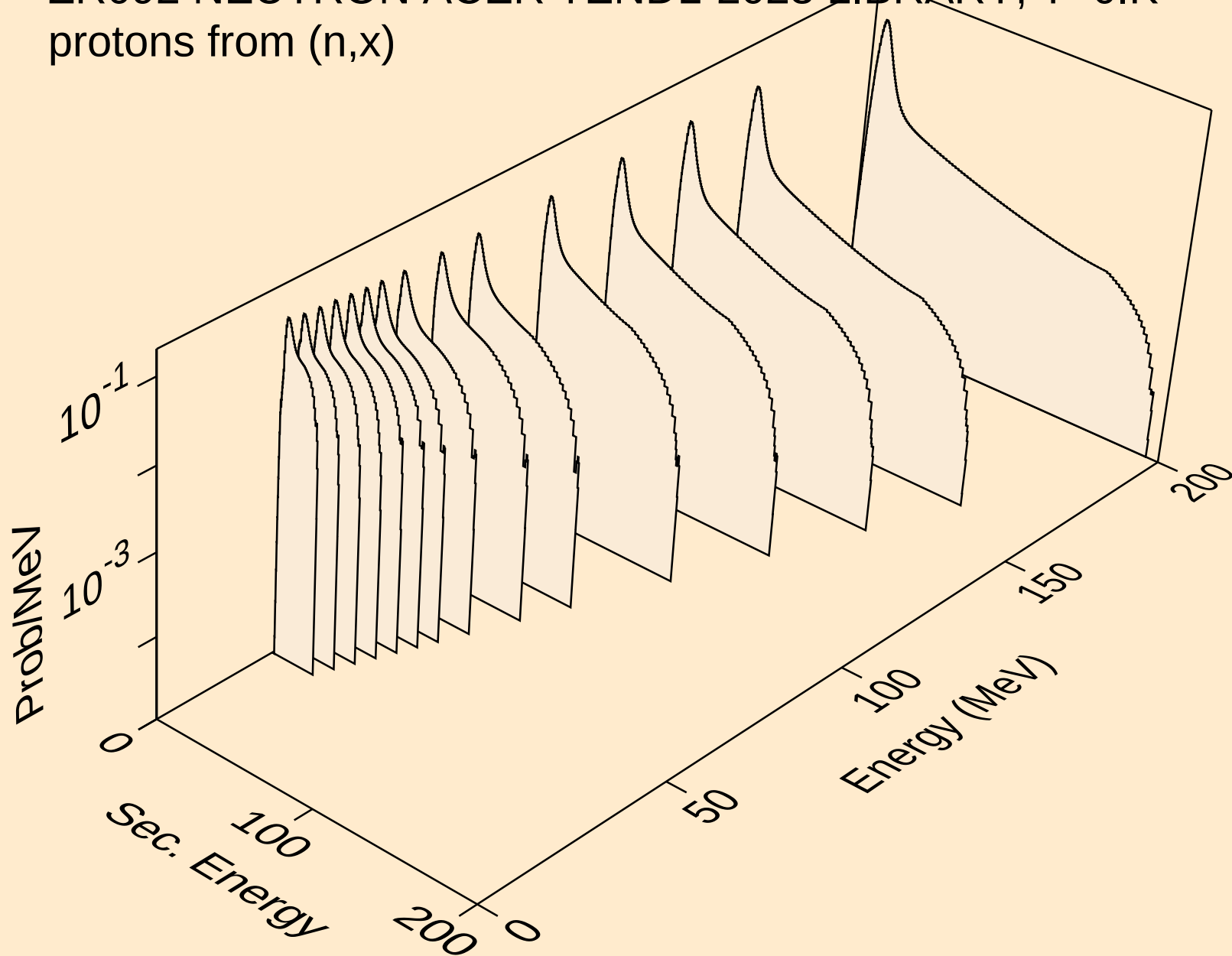


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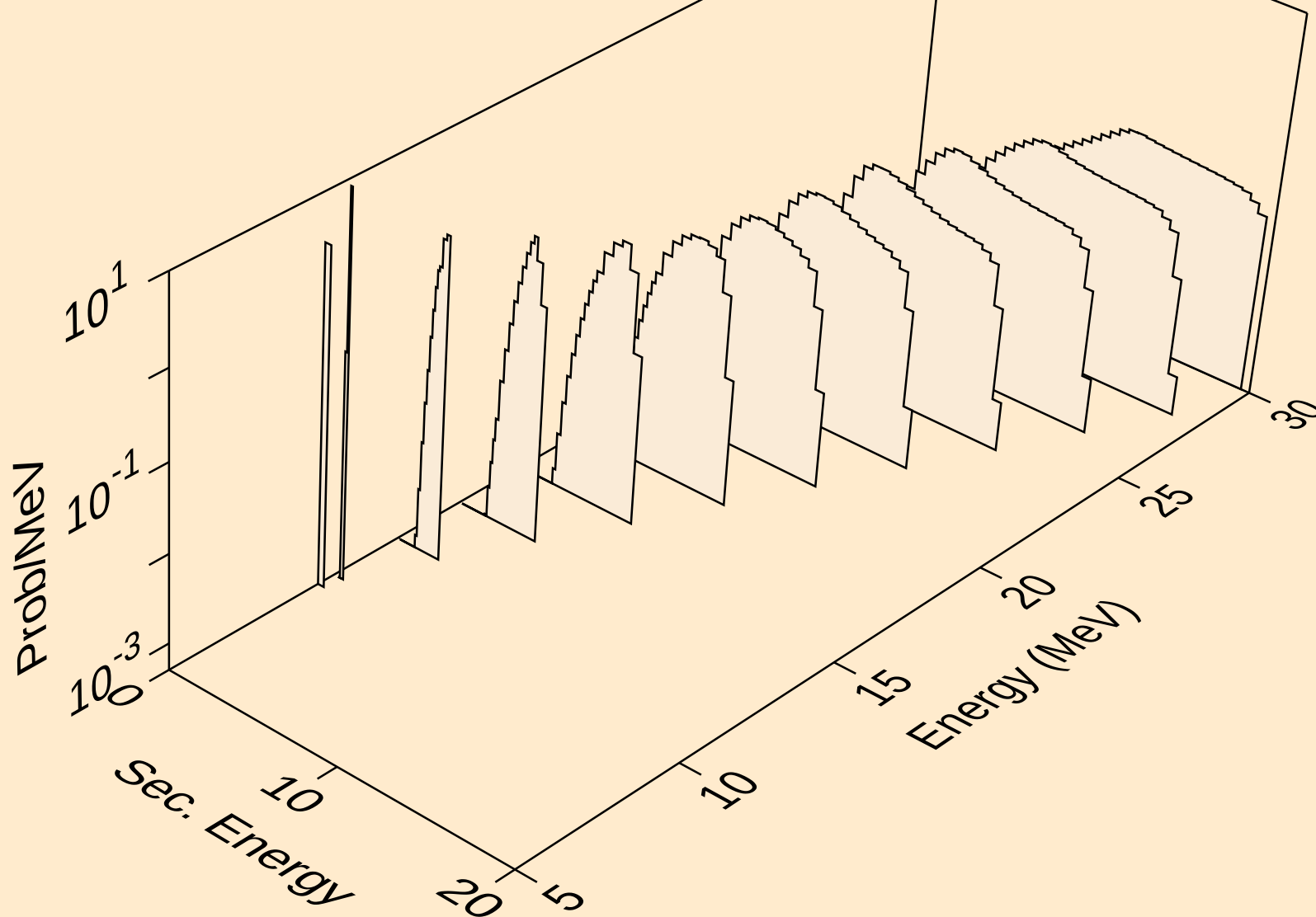
## Particle production cross sections



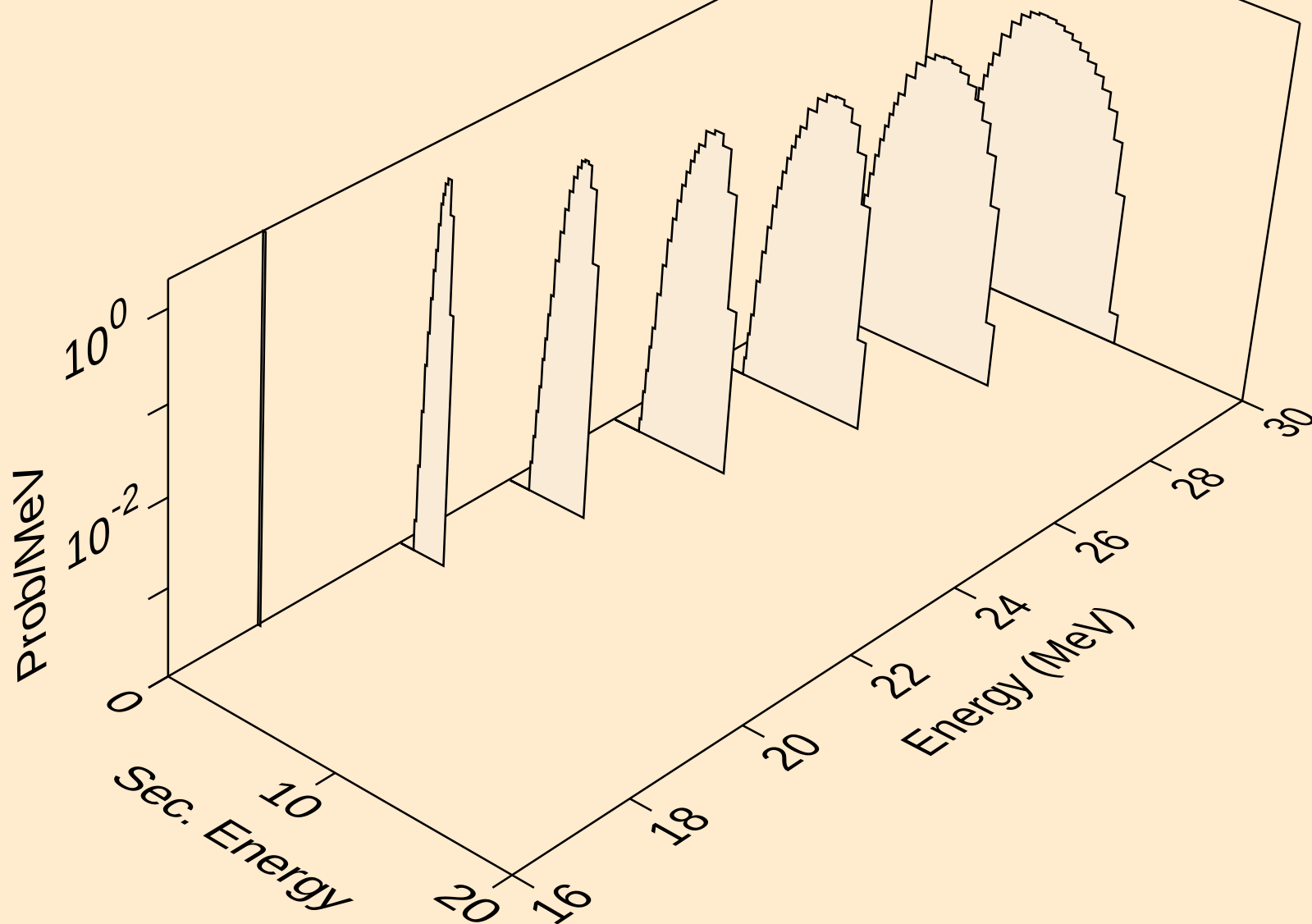
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



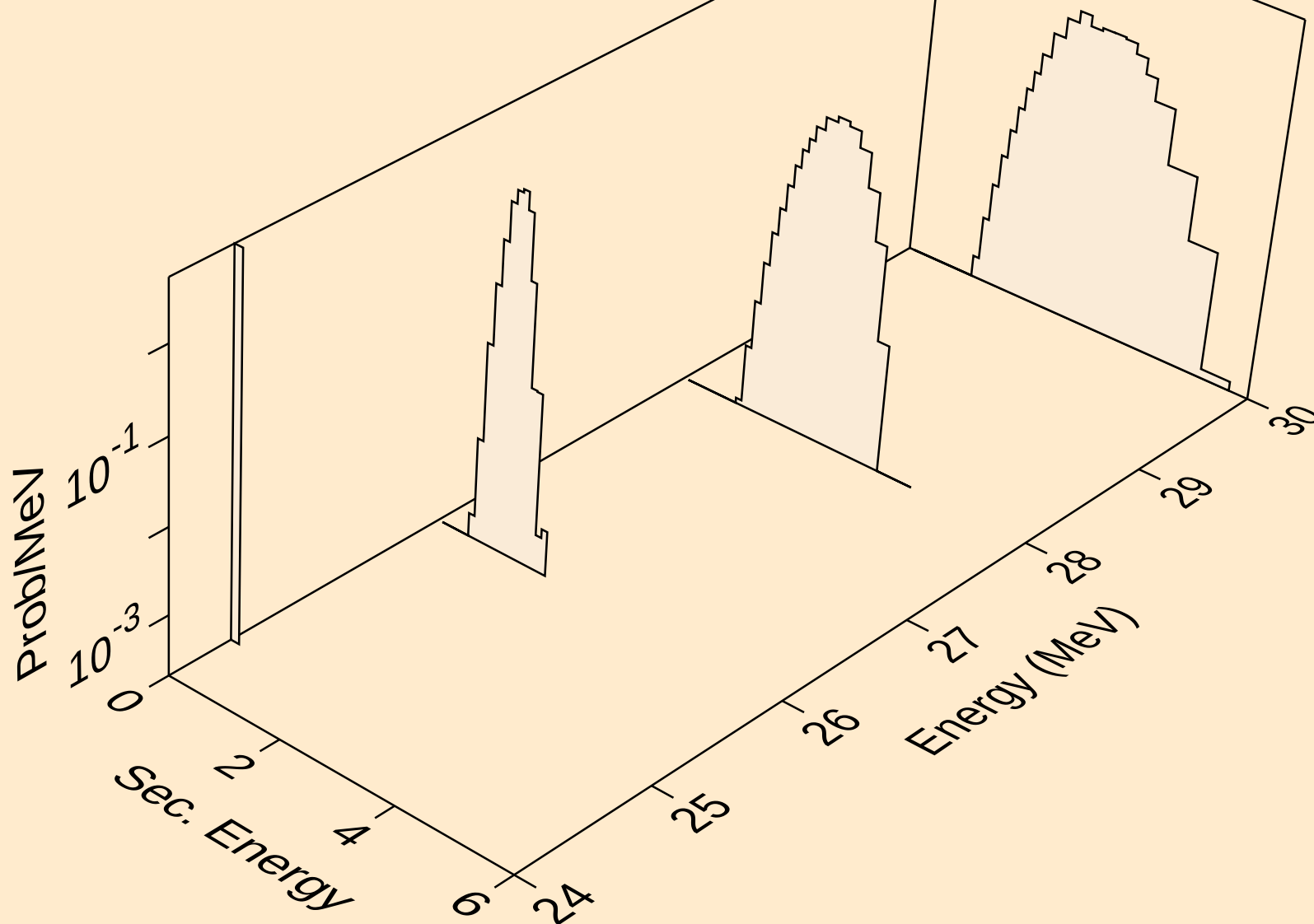
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protons from (n,n\*)p



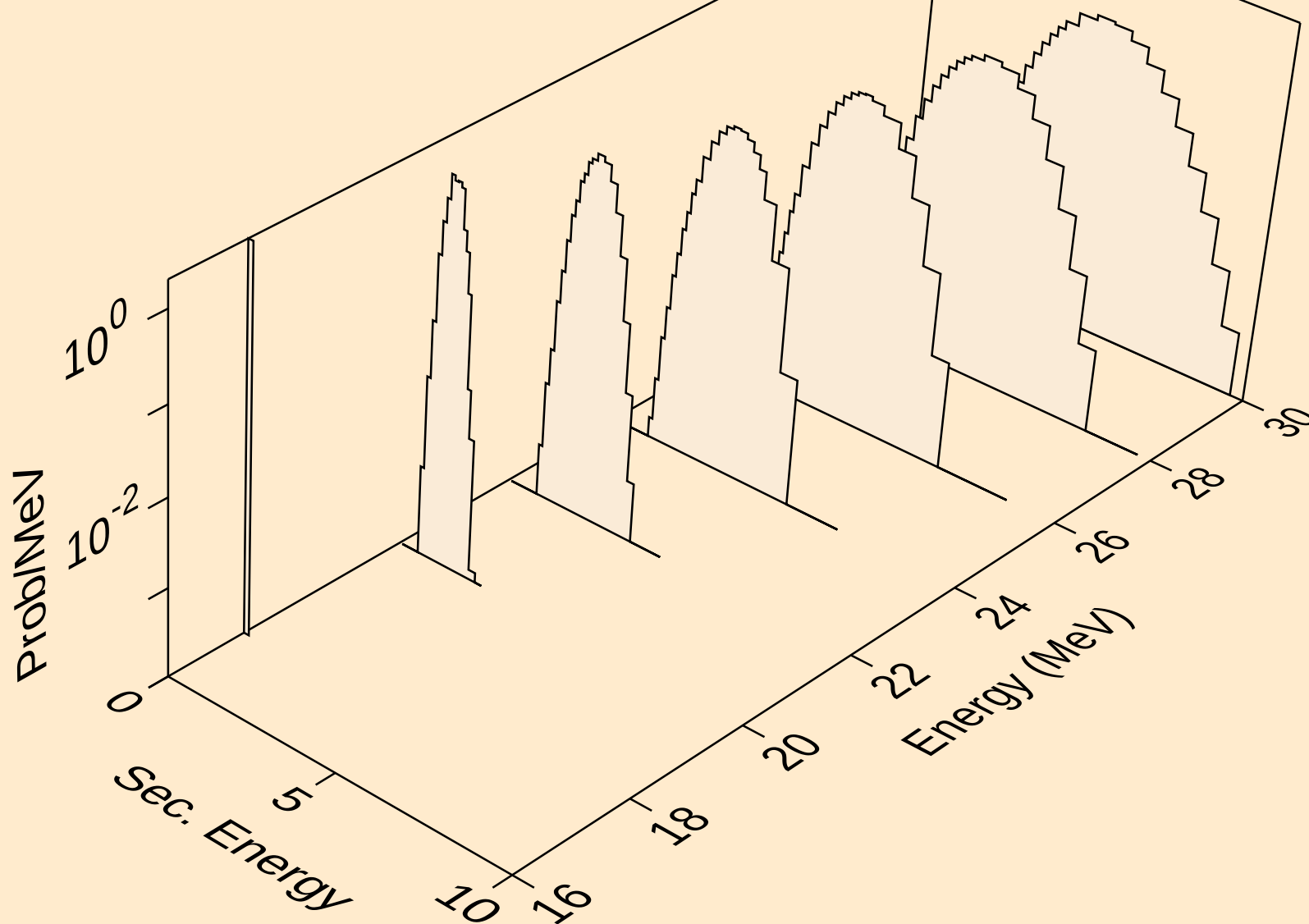
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protons from (n,2np)



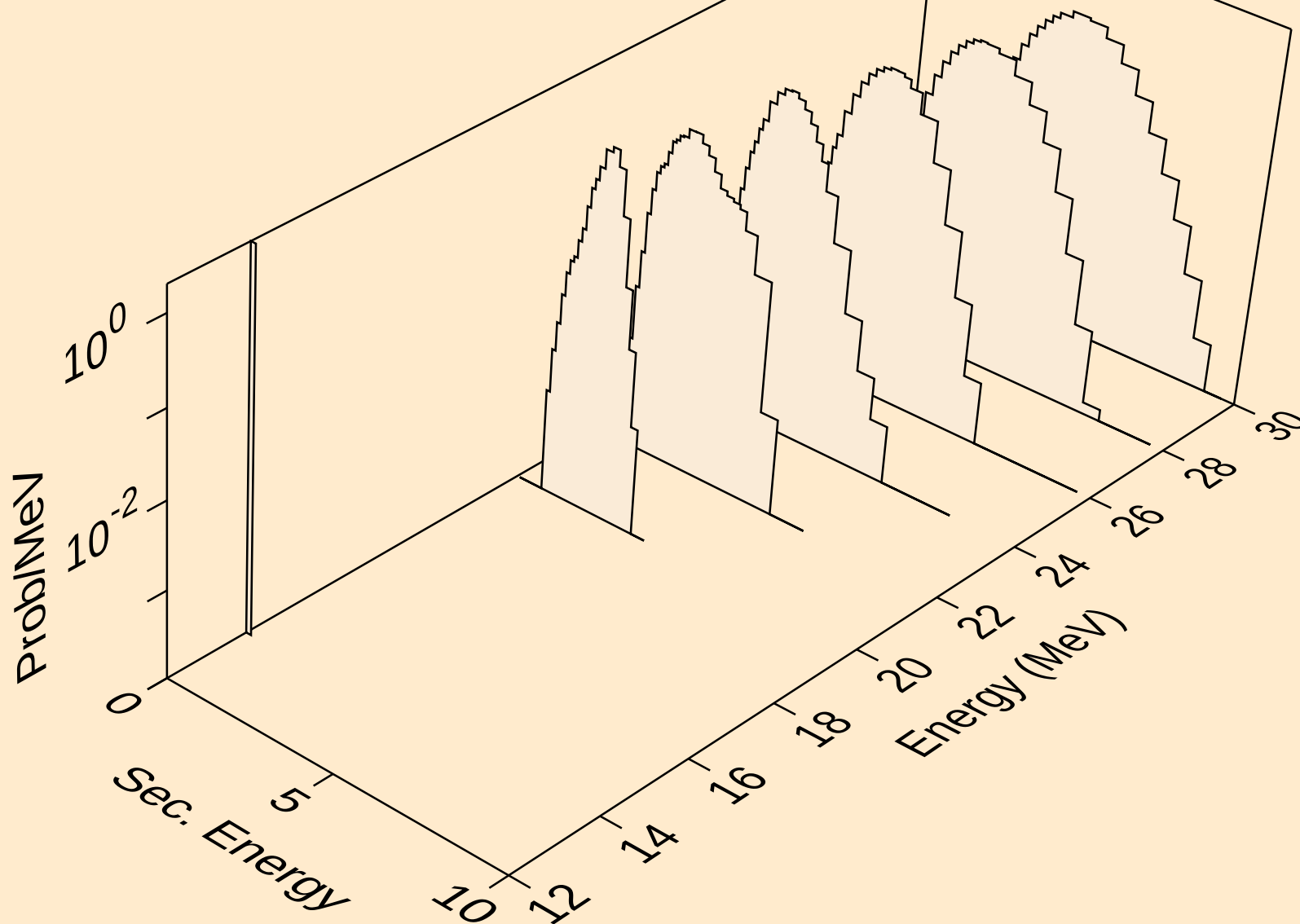
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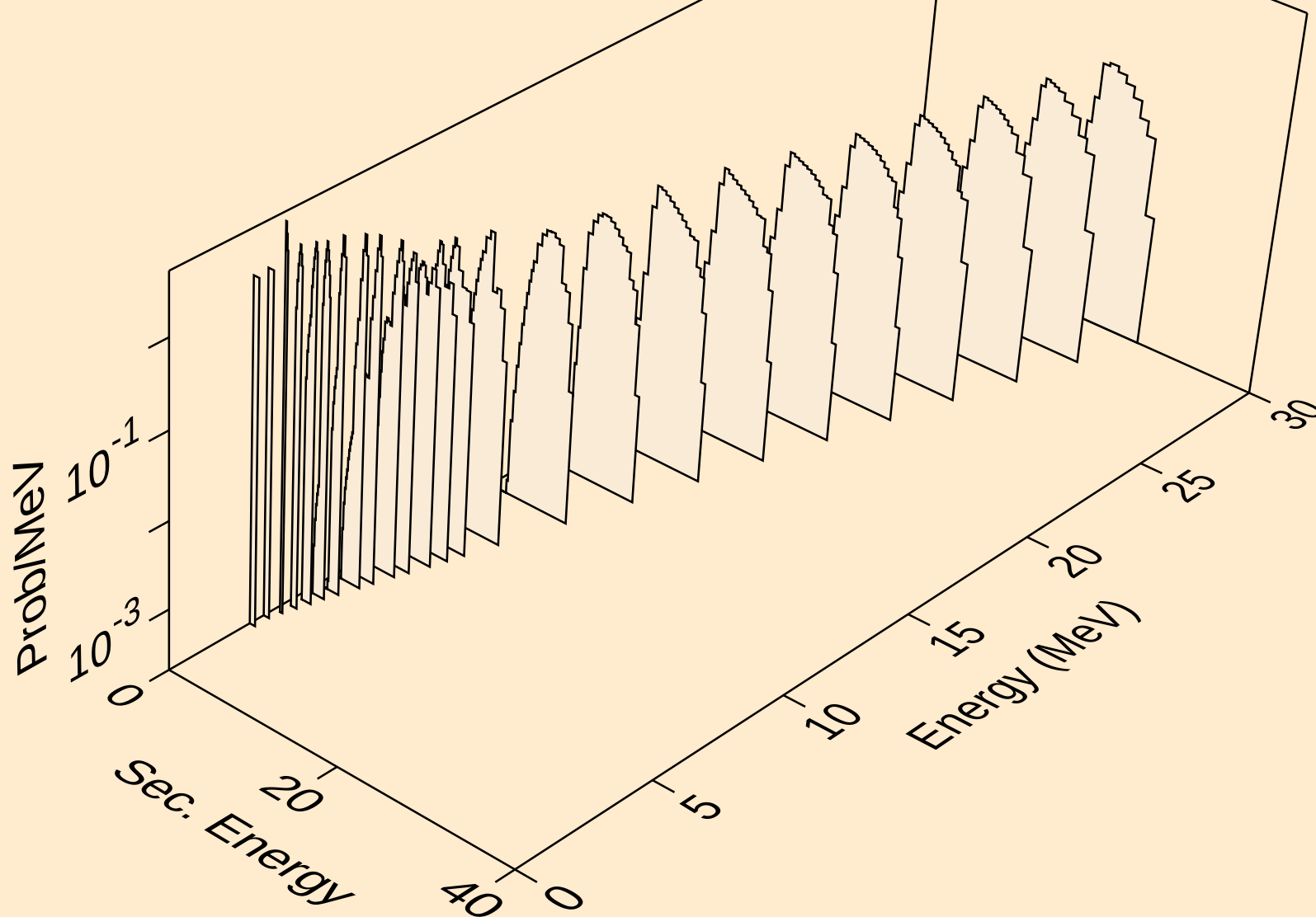
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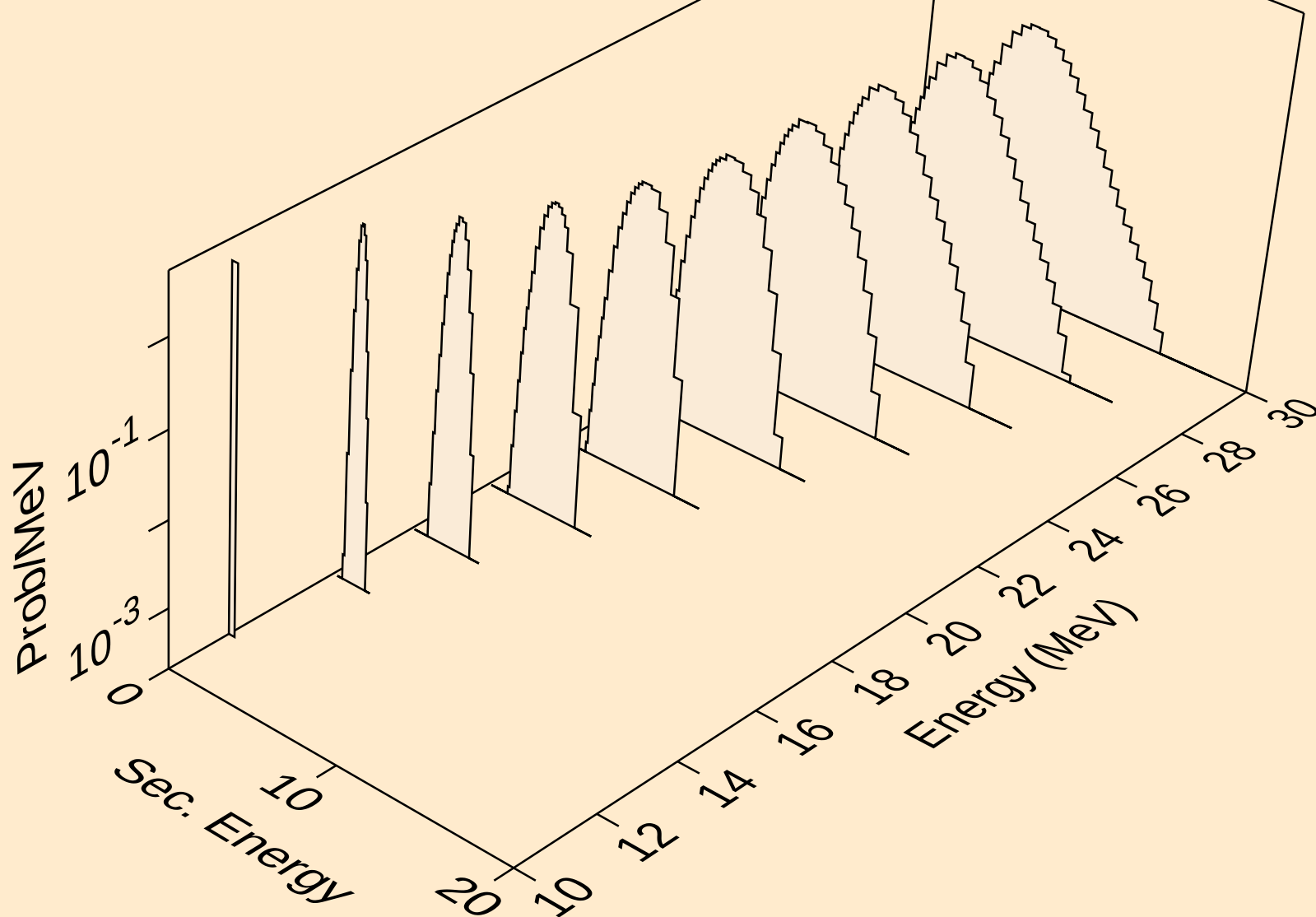
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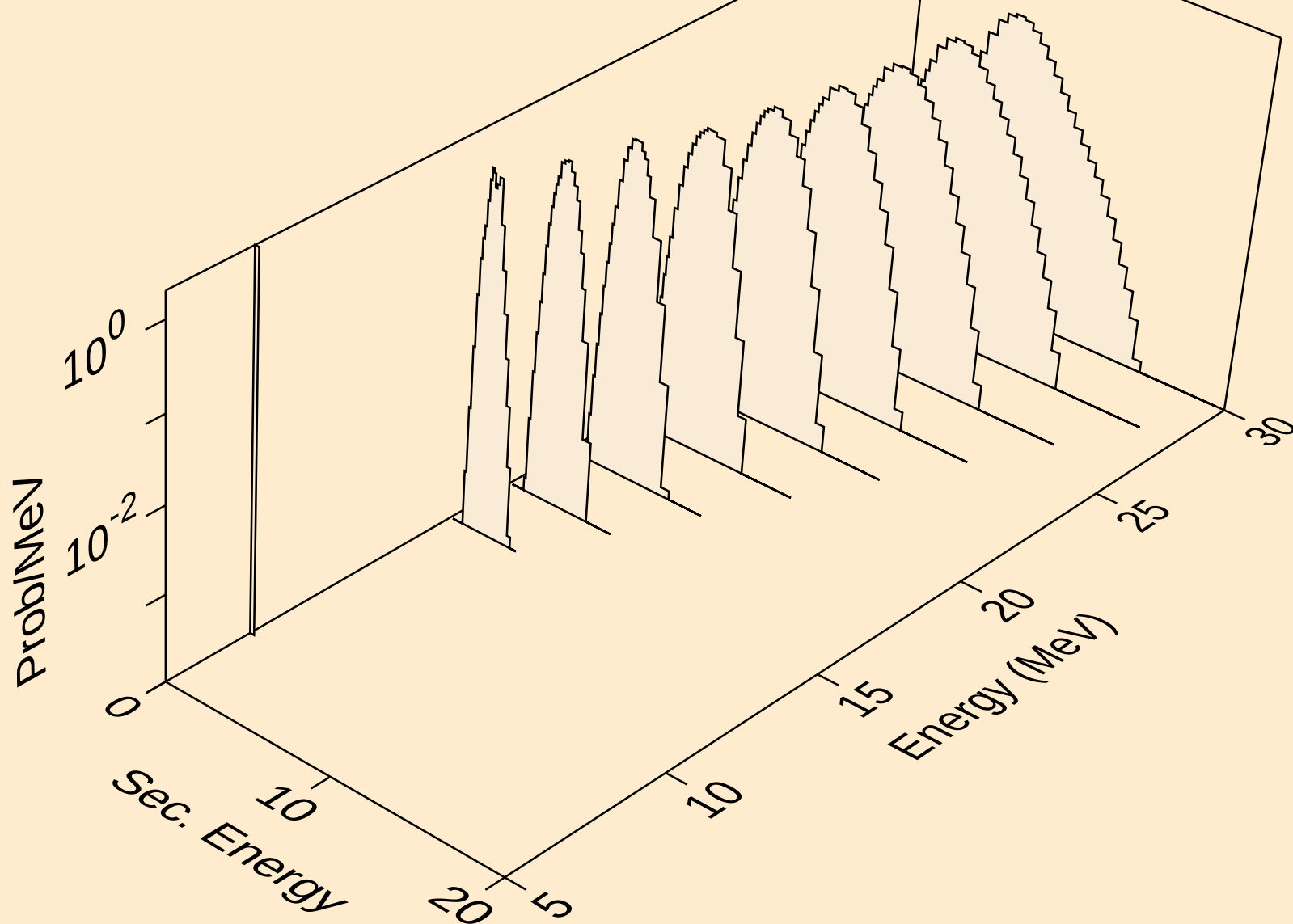
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protons from (n,p)



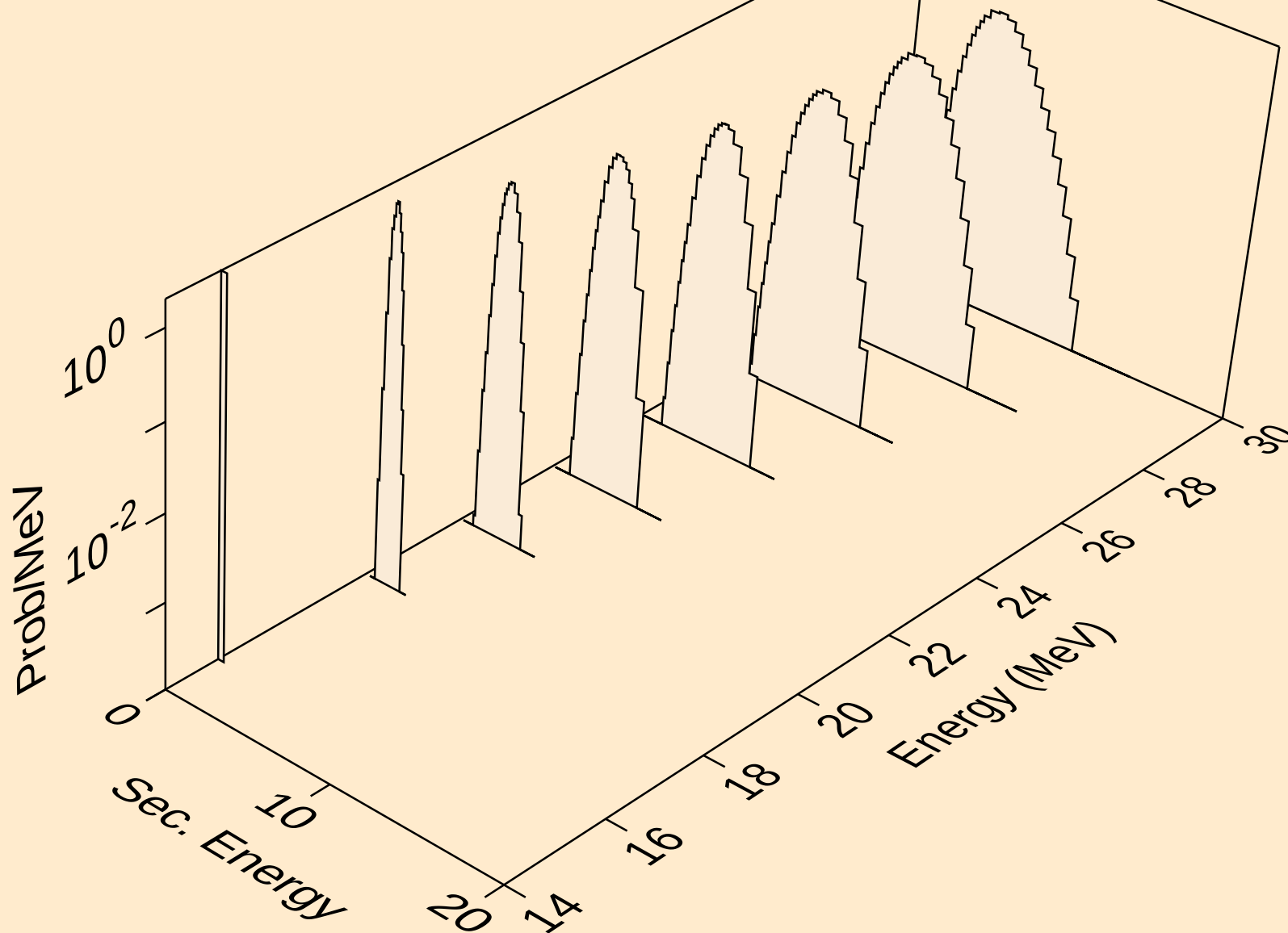
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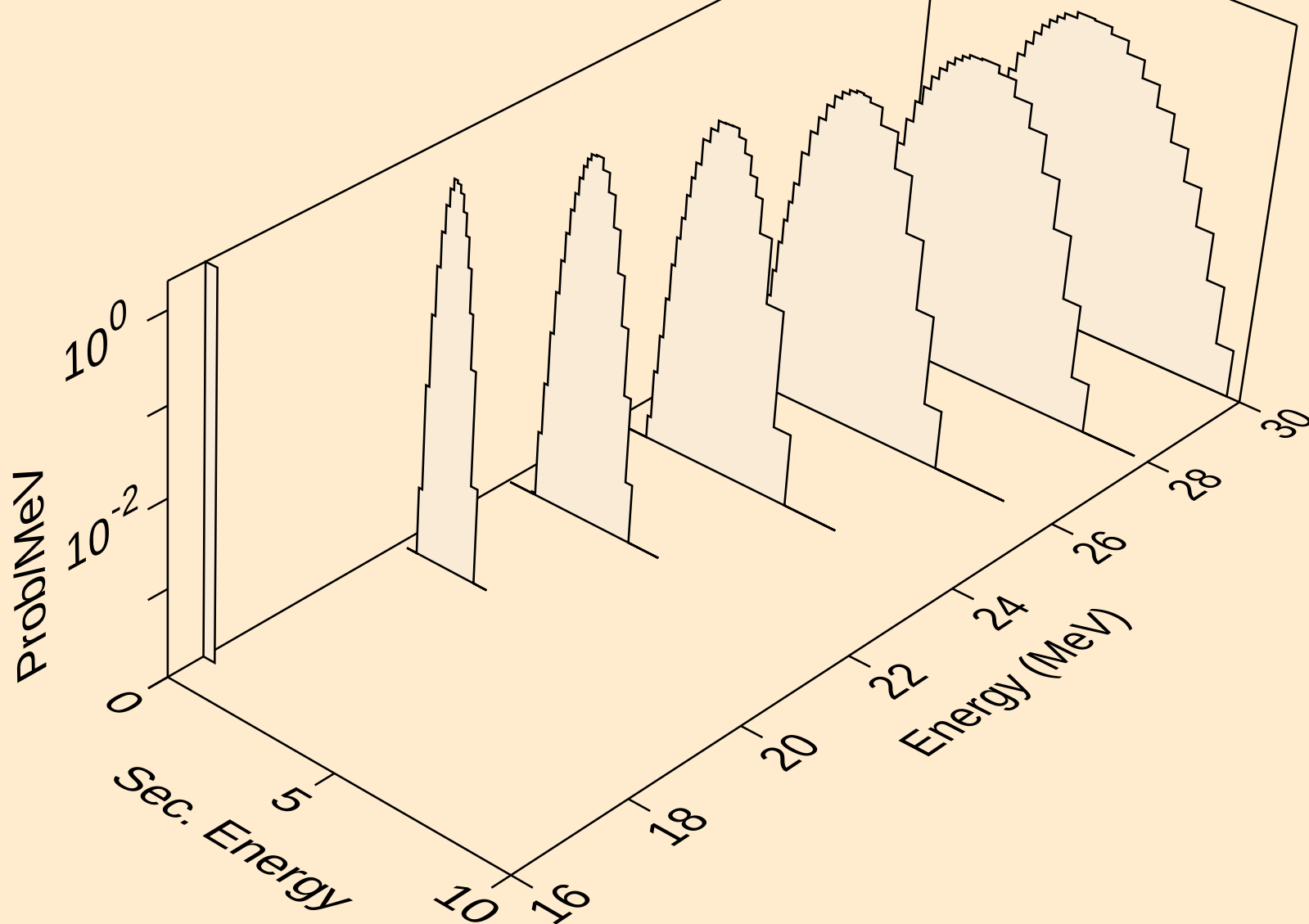
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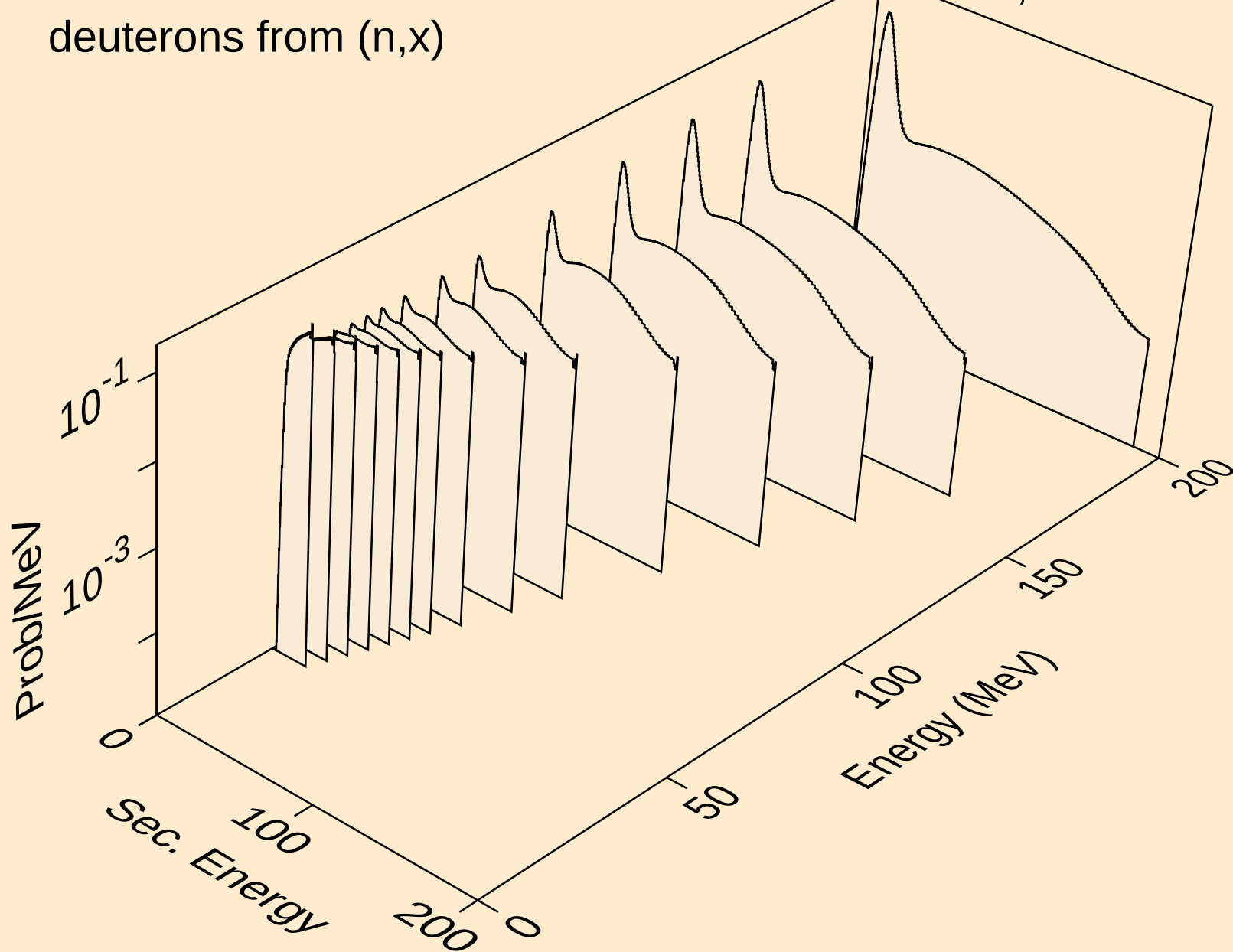
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protons from (n,pd)



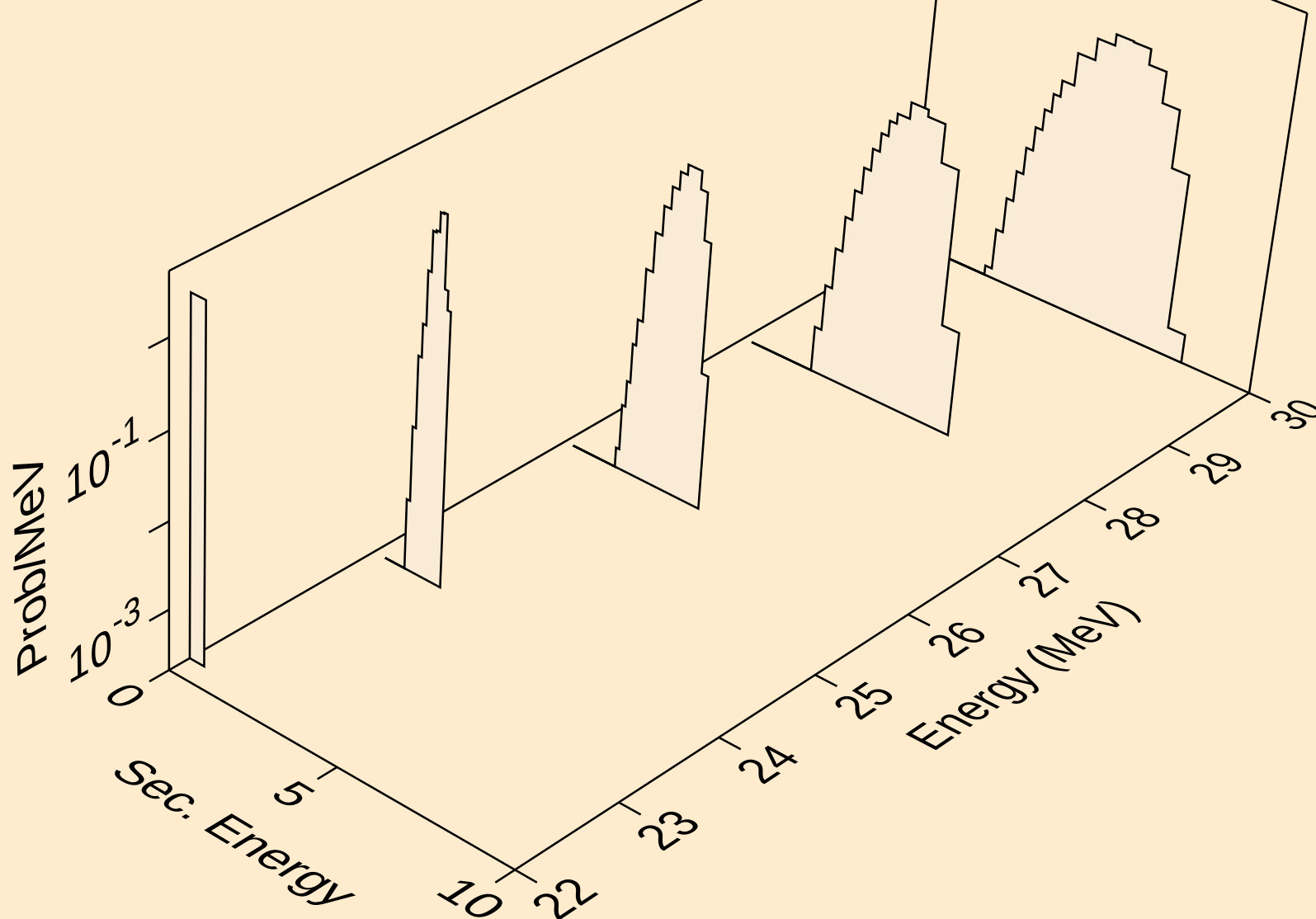
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protons from (n,pt)



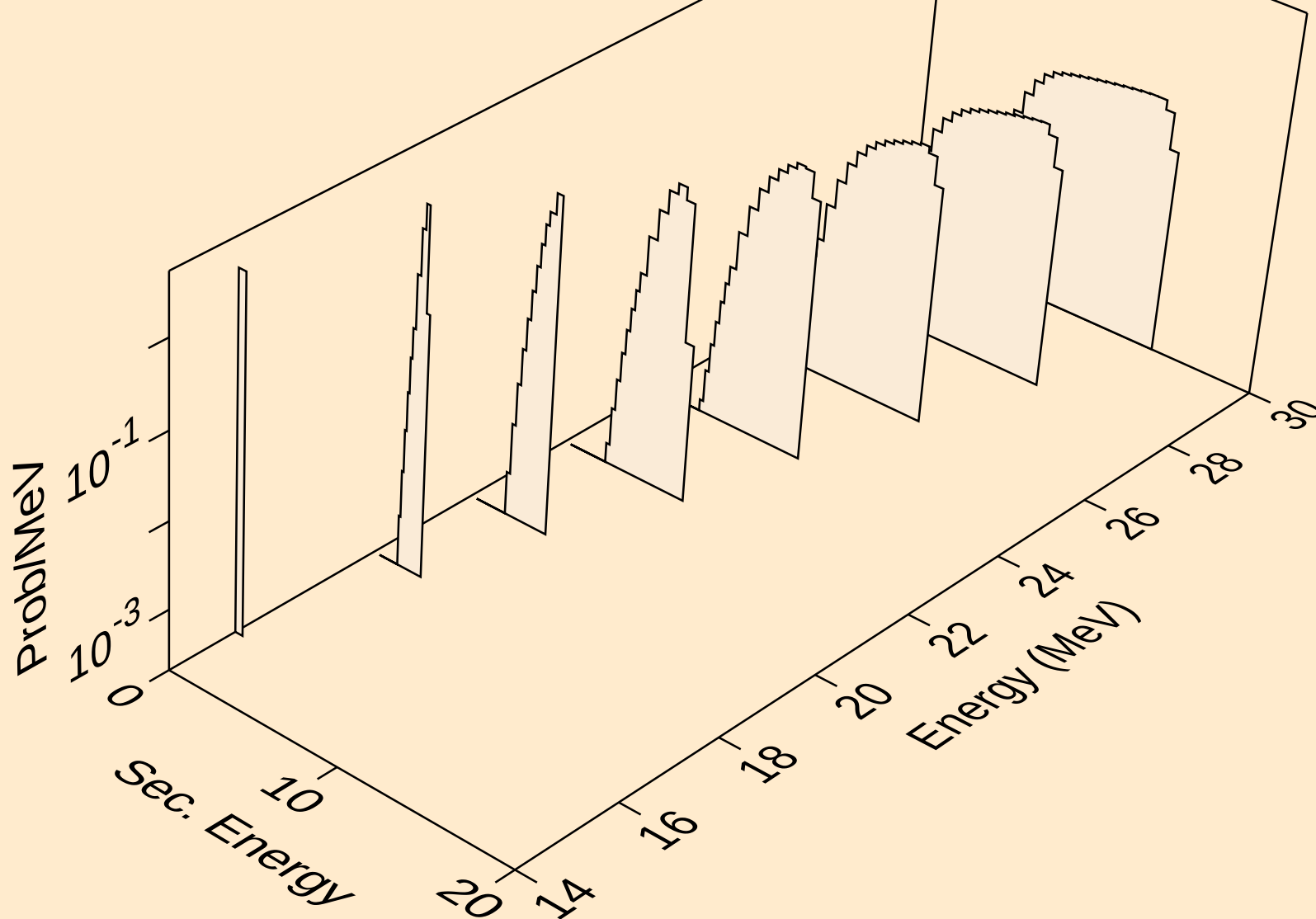
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deuterons from (n,x)



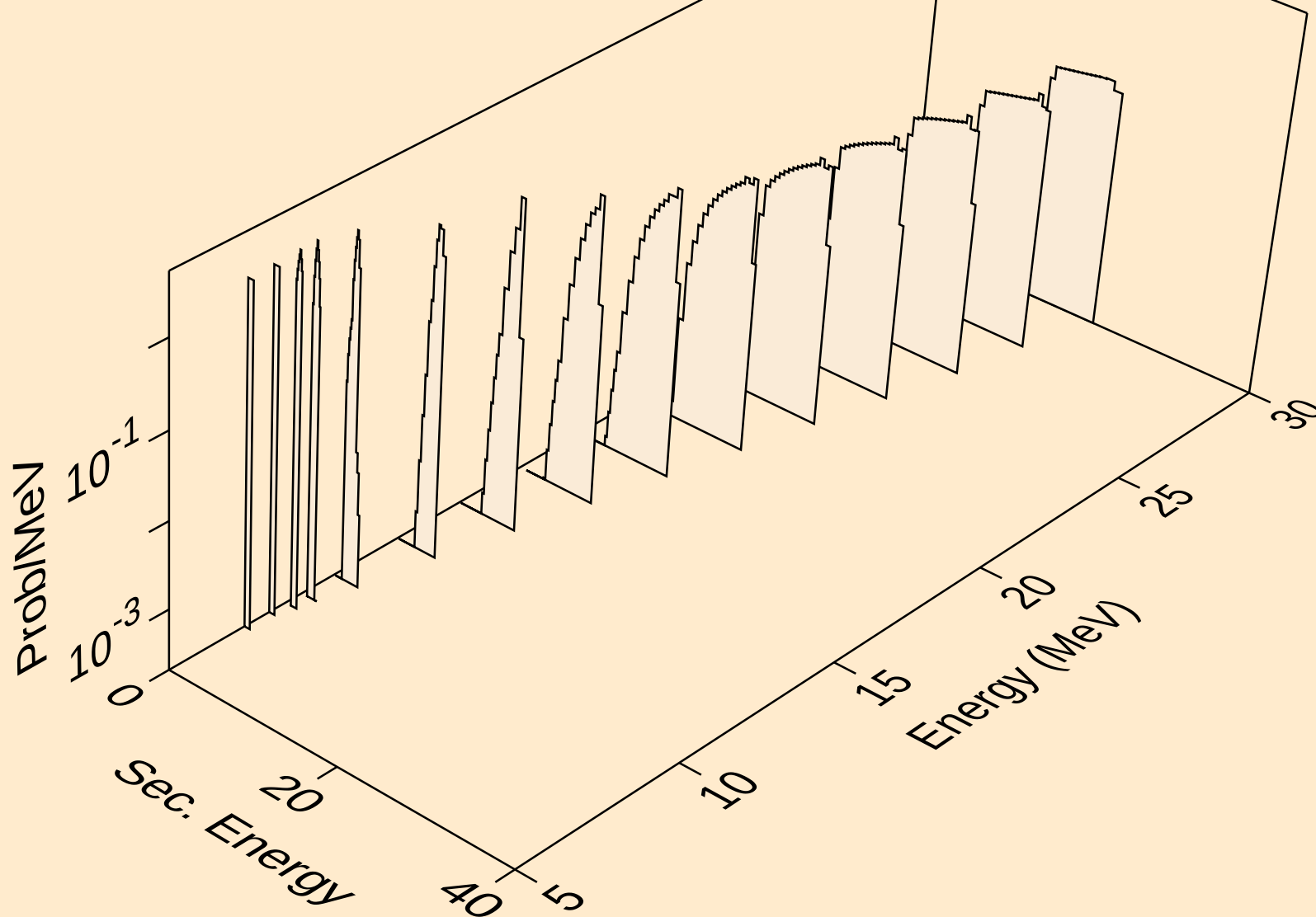
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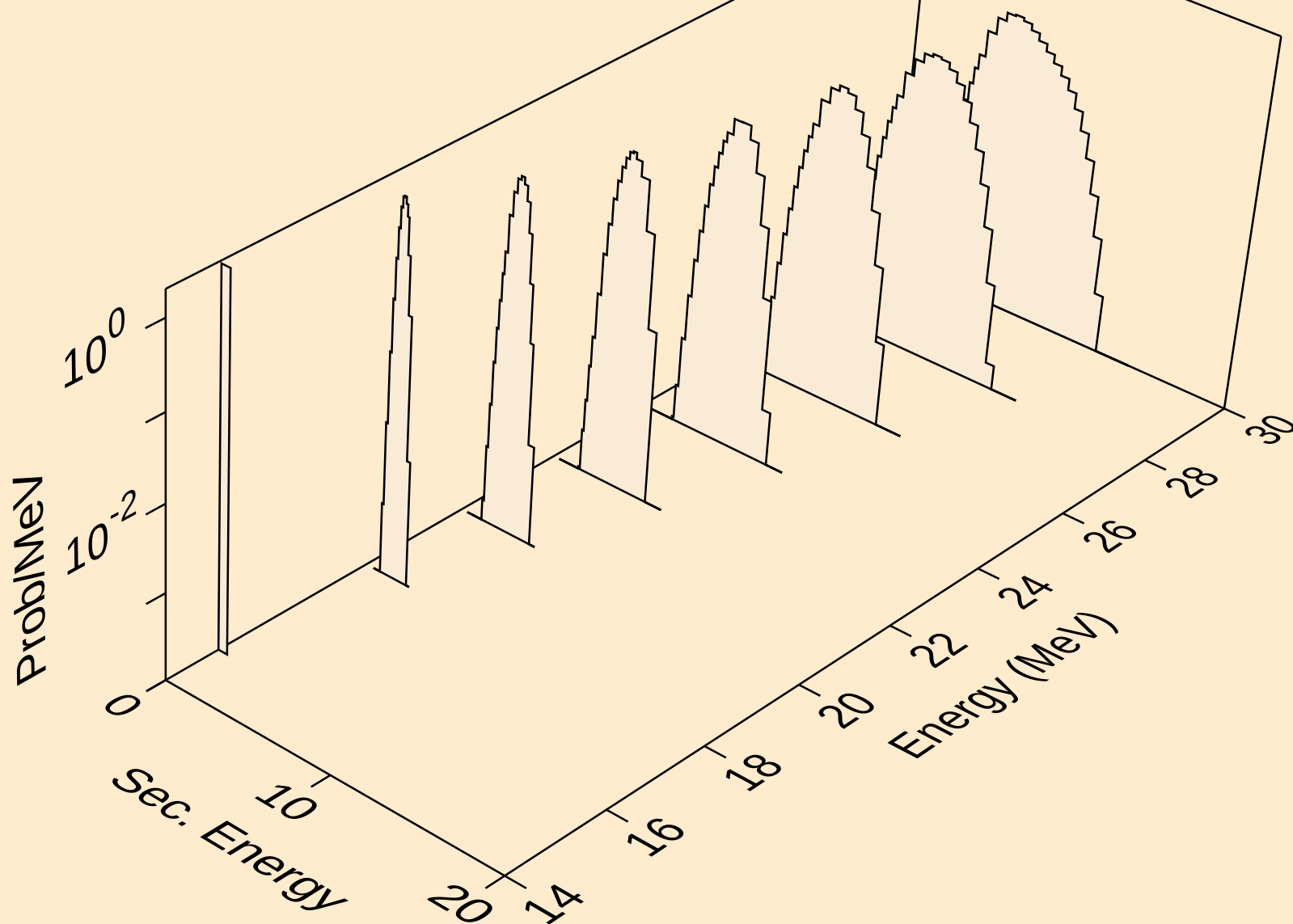
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deuterons from (n,n\*)d



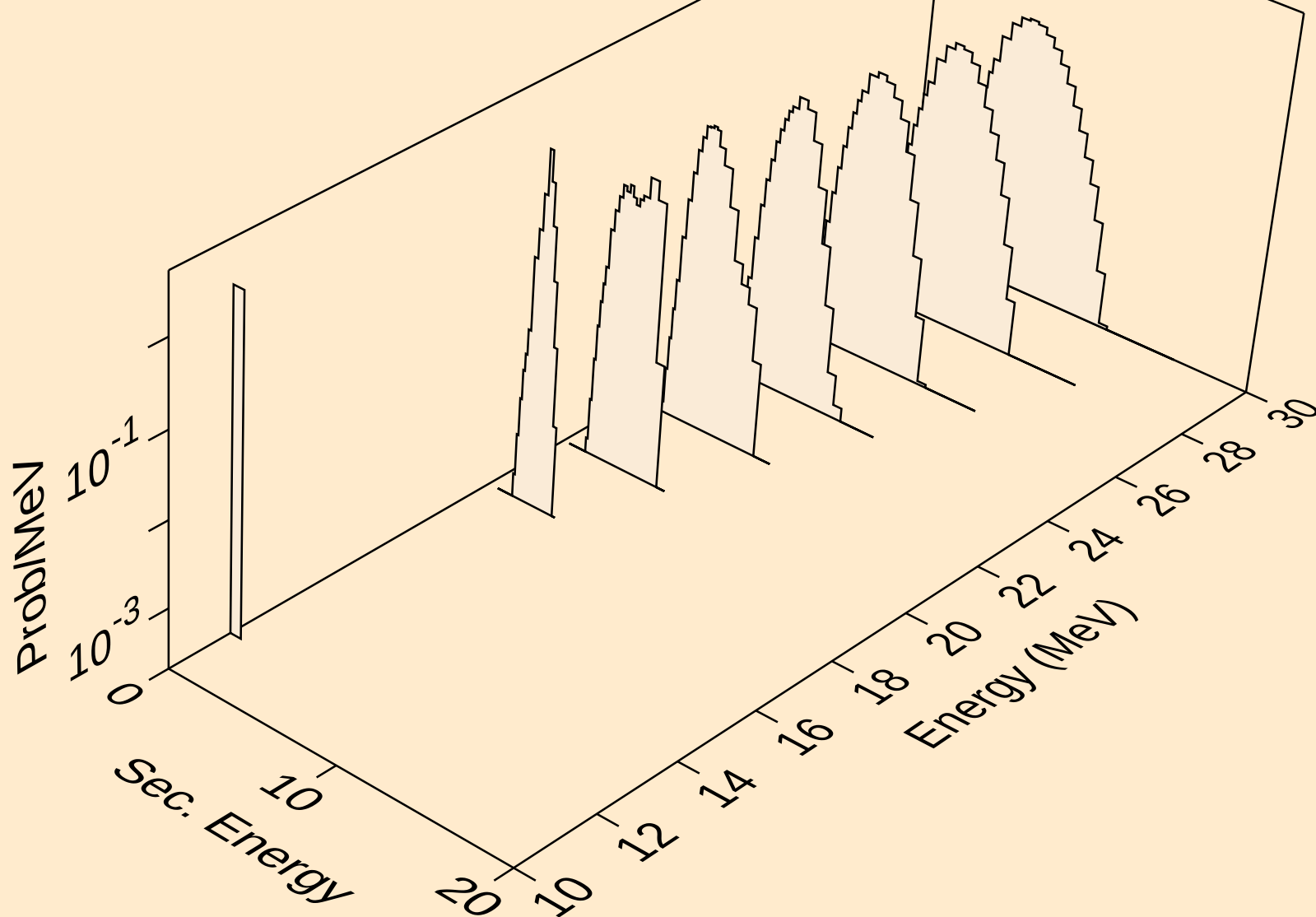
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deuterons from (n,d)



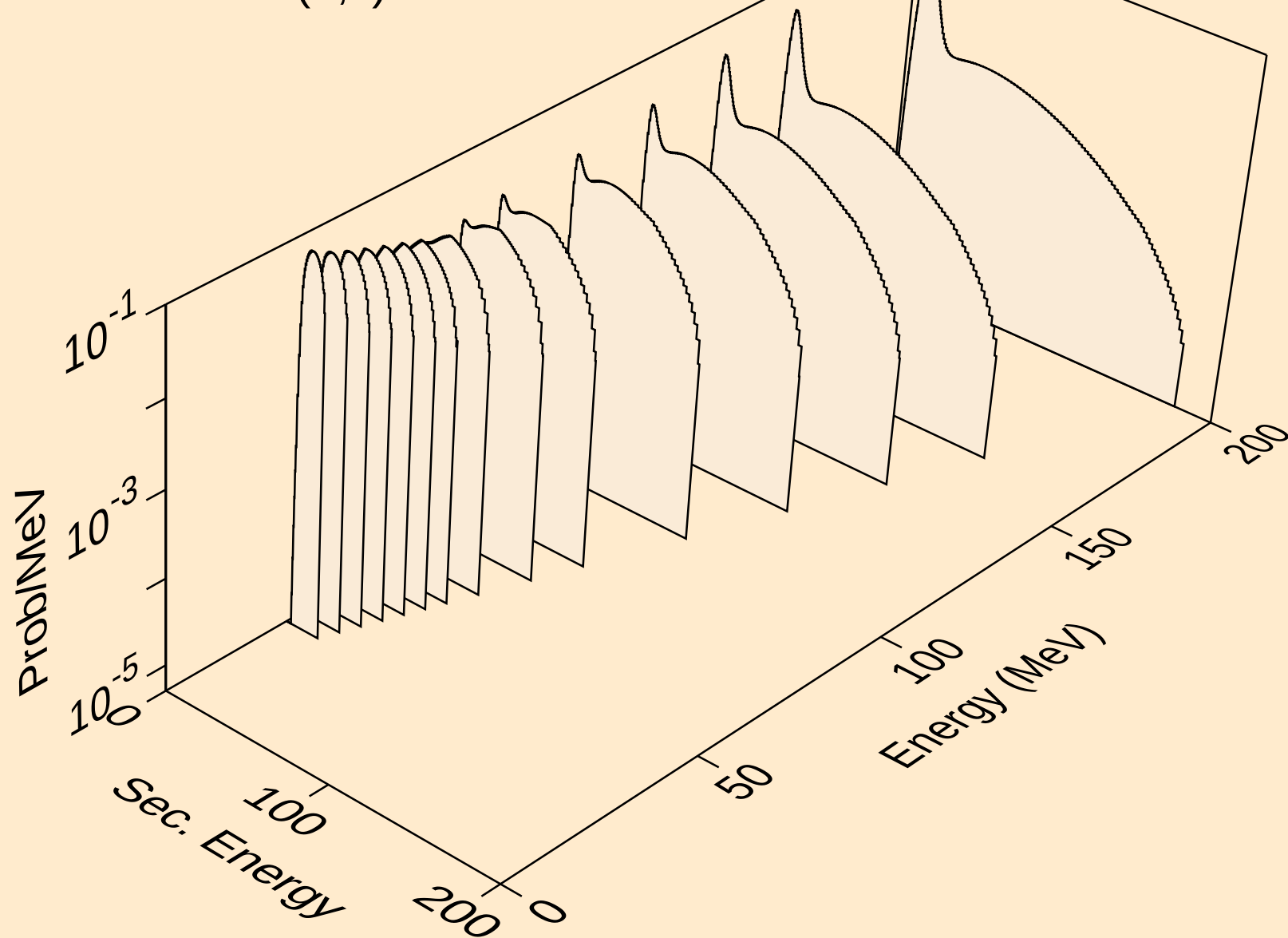
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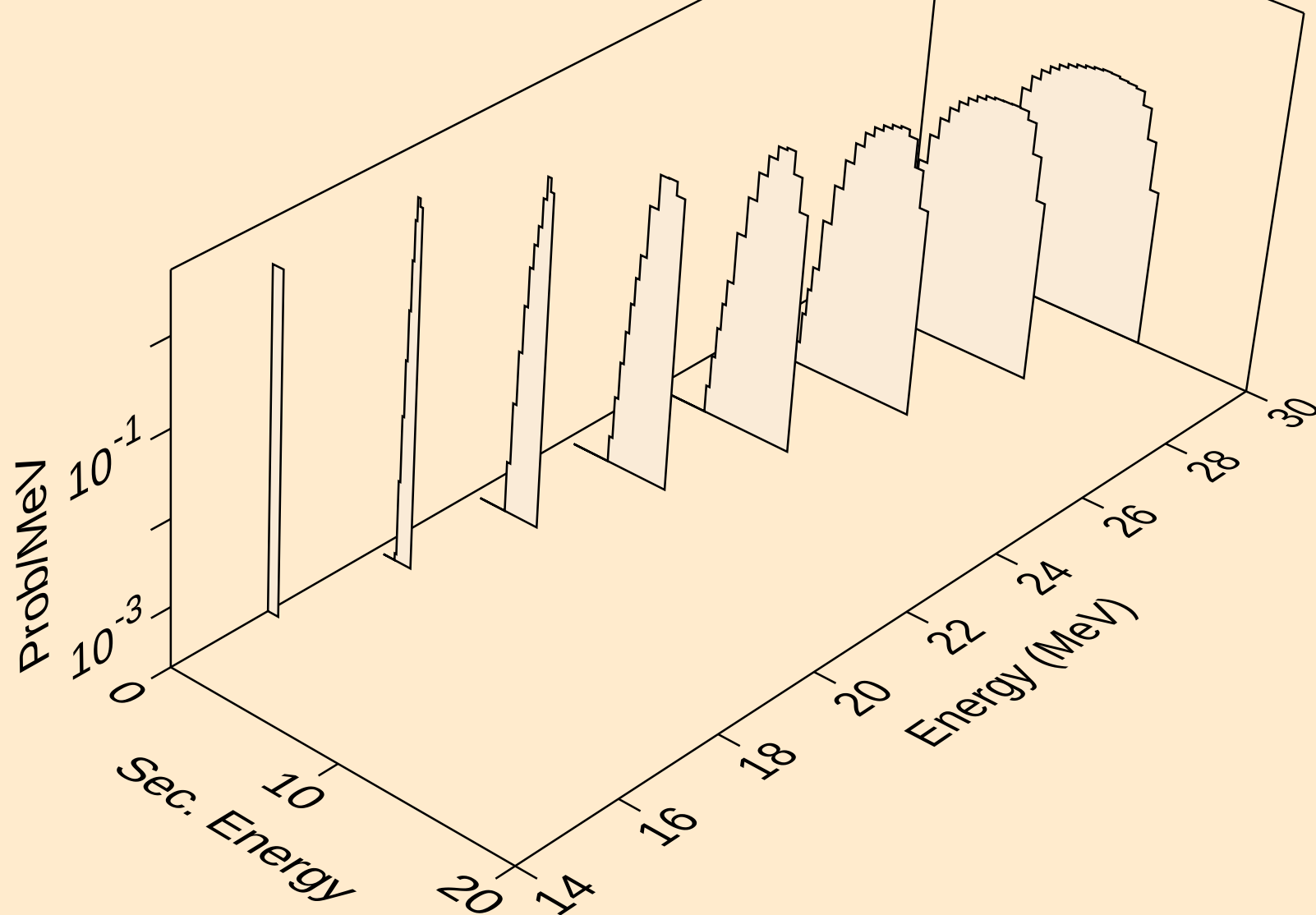
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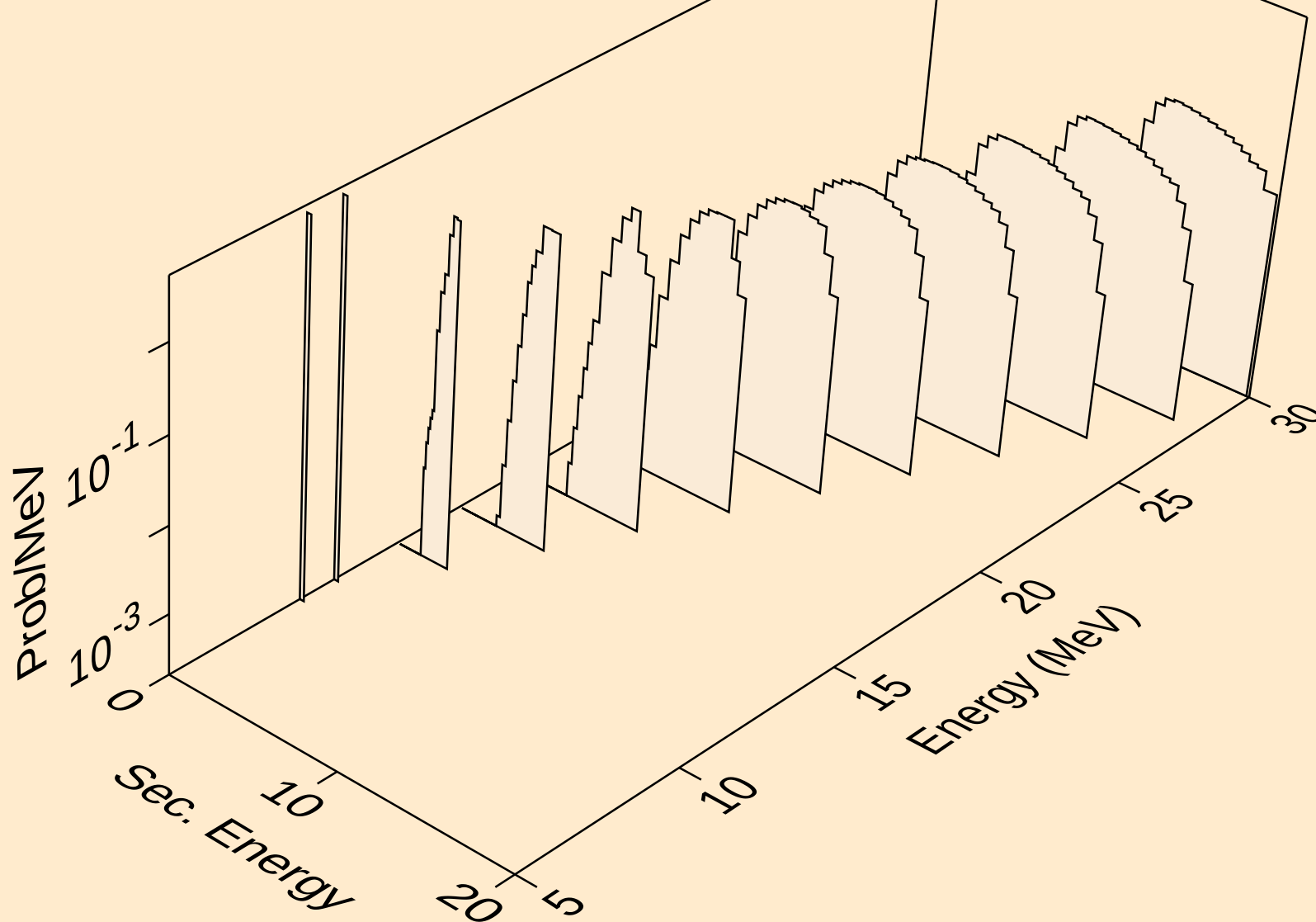
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tritons from (n,x)



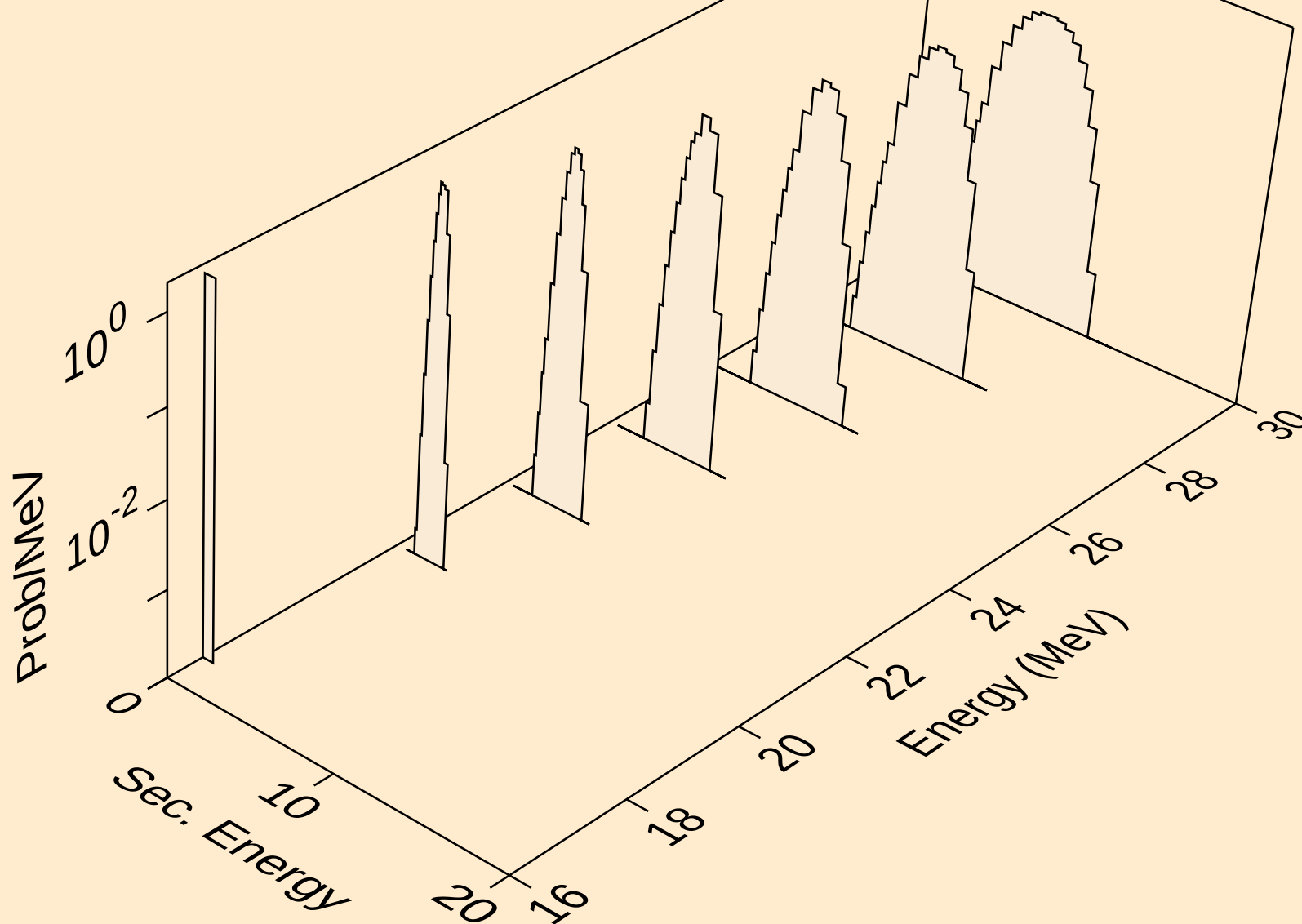
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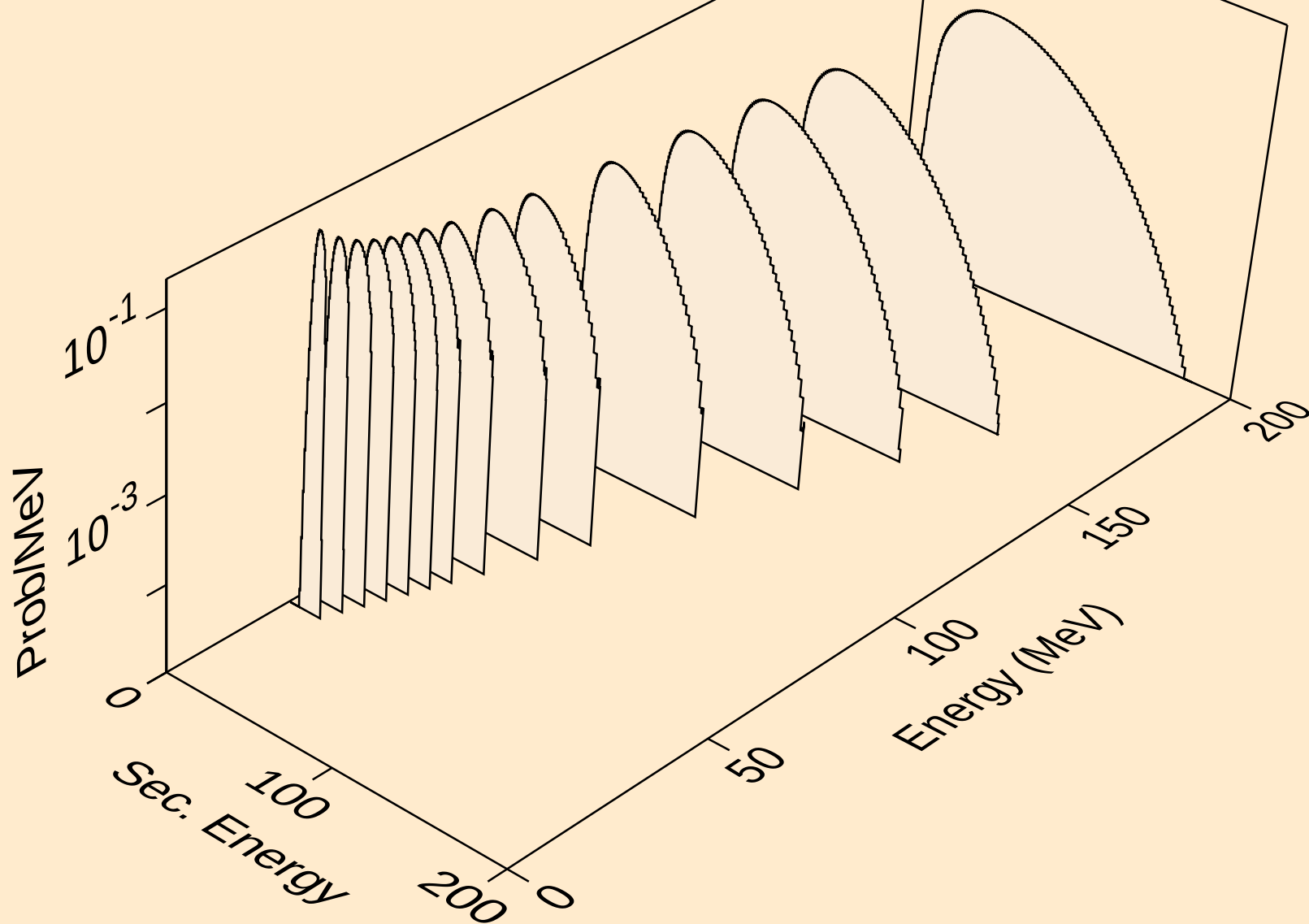
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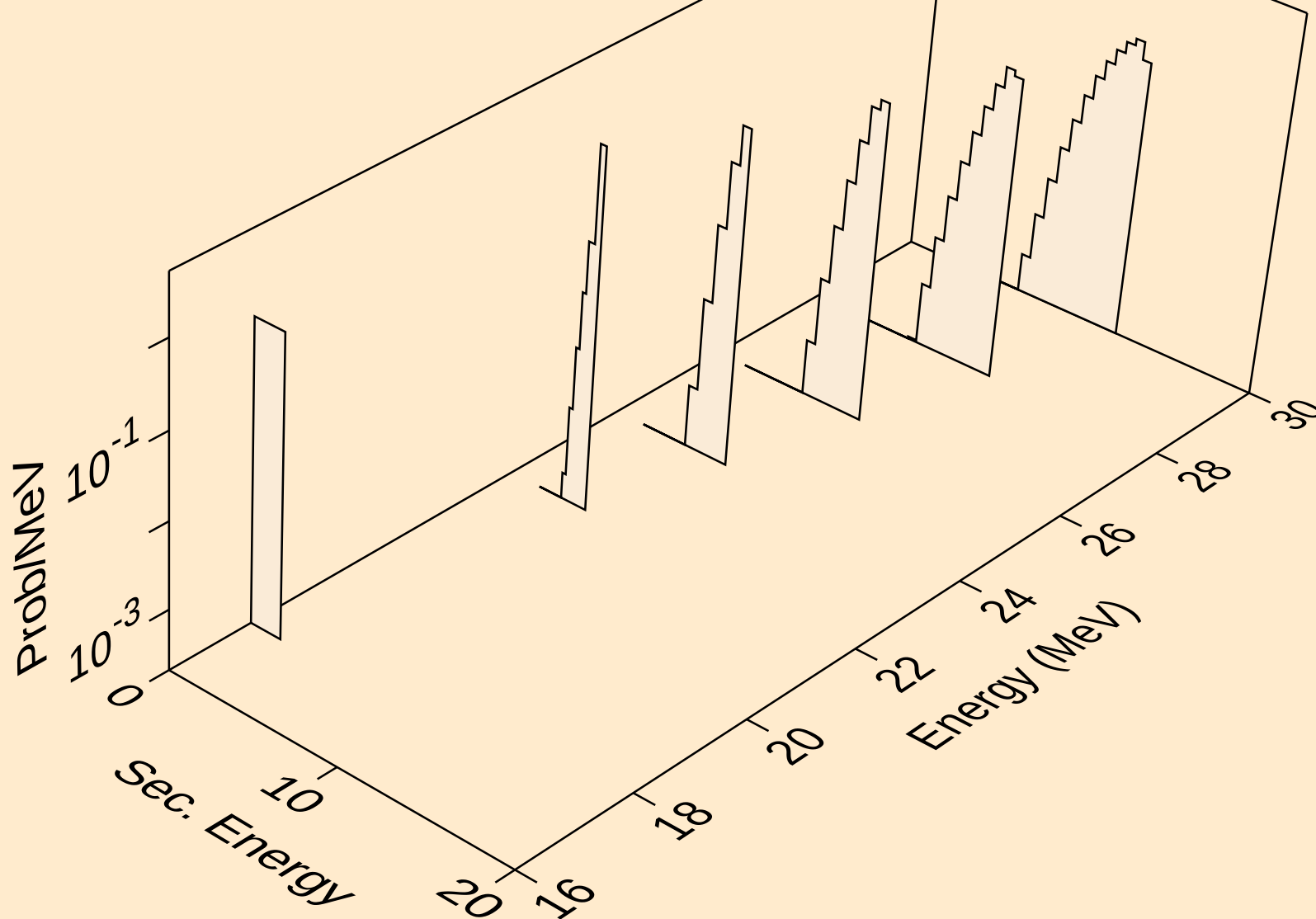
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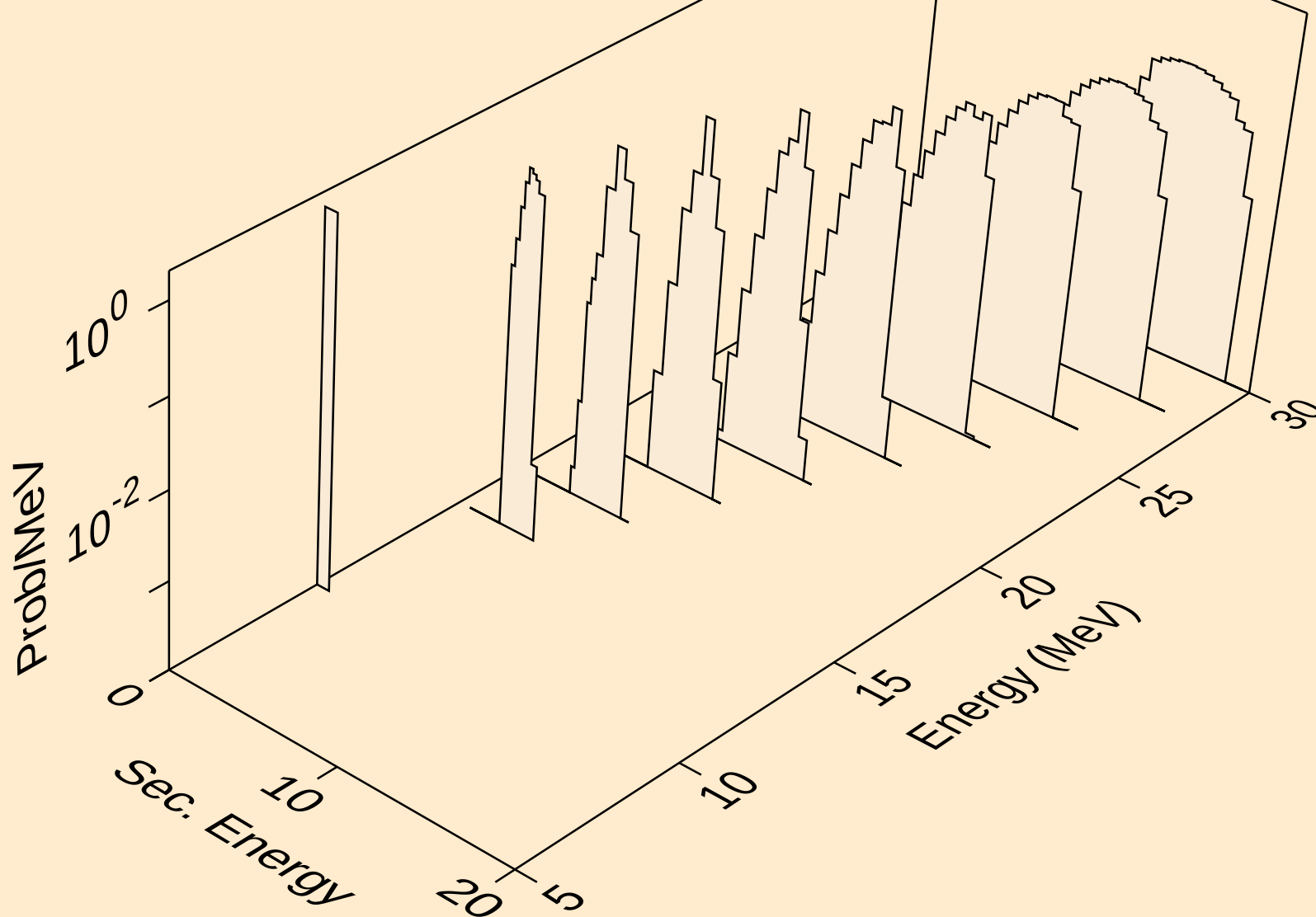
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he3s from (n,x)



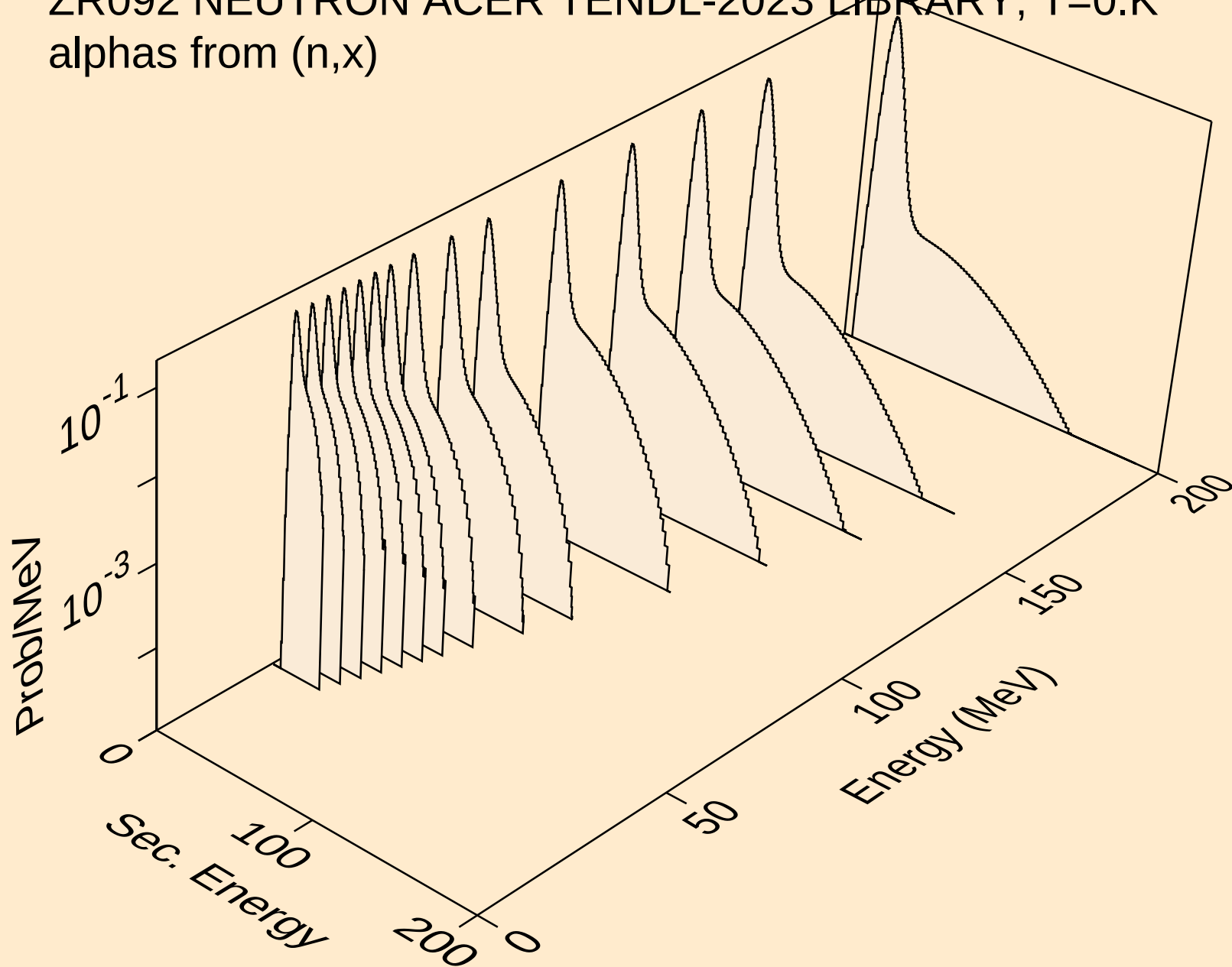
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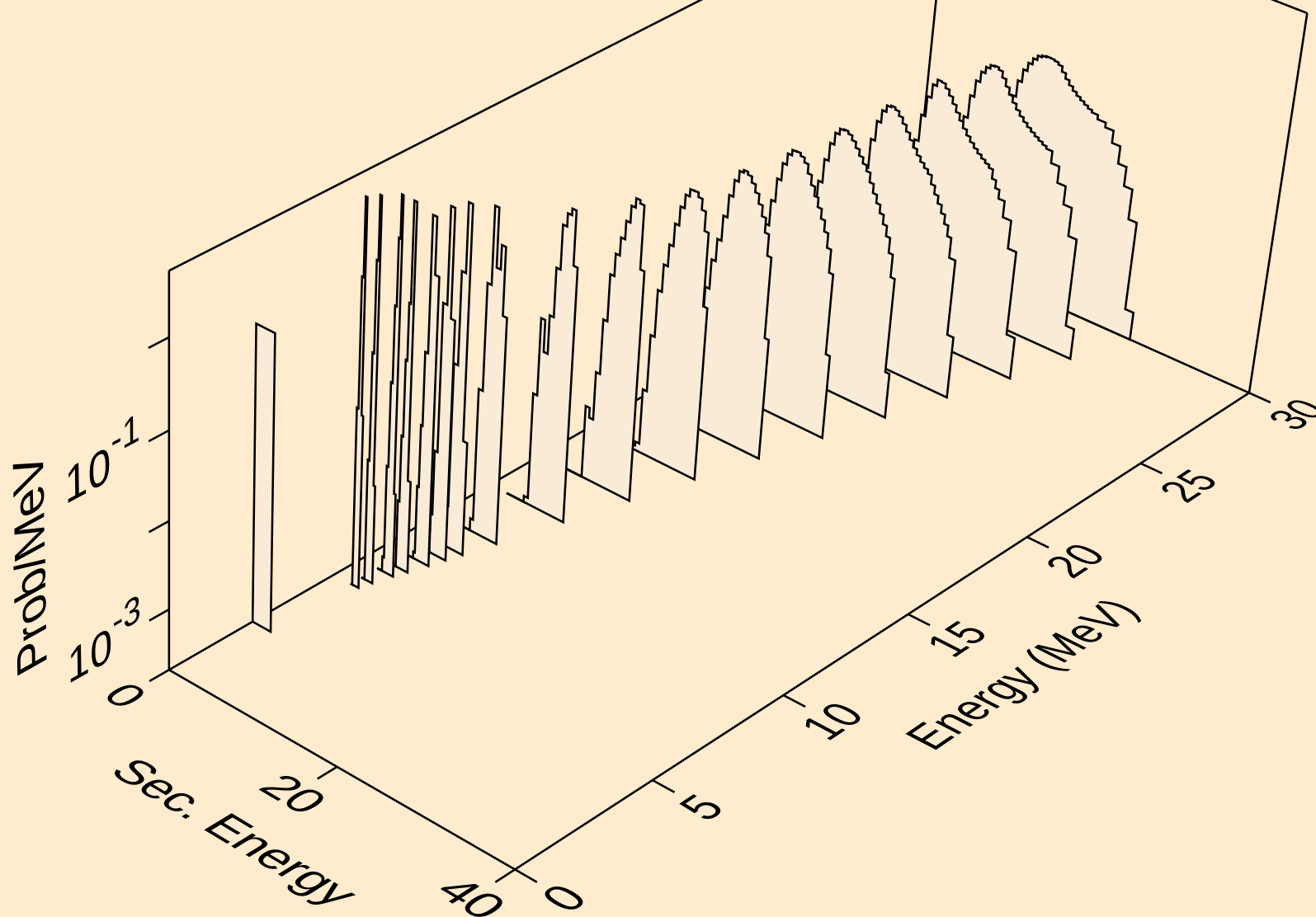
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he3s from (n,he3)



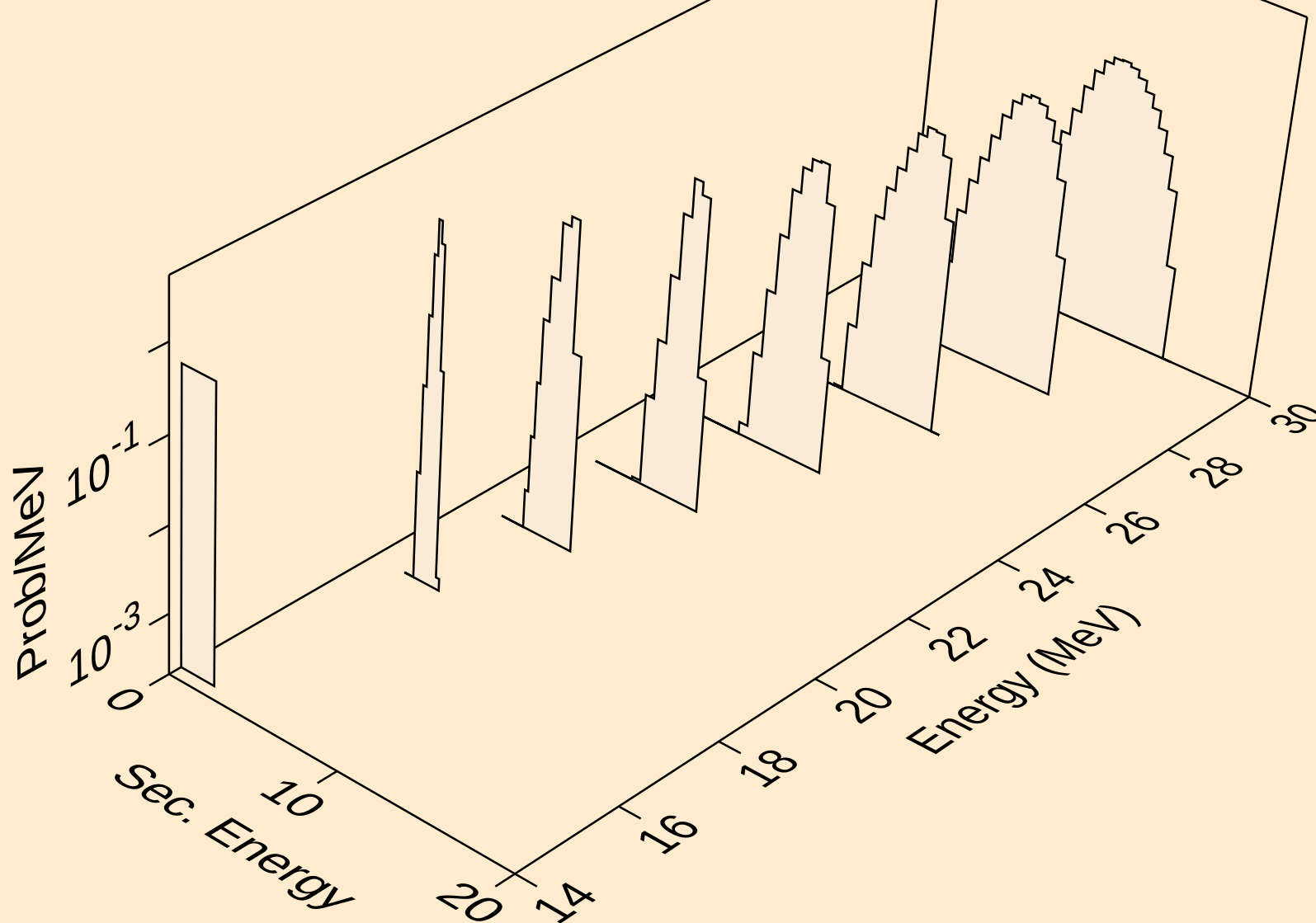
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alphas from (n,x)



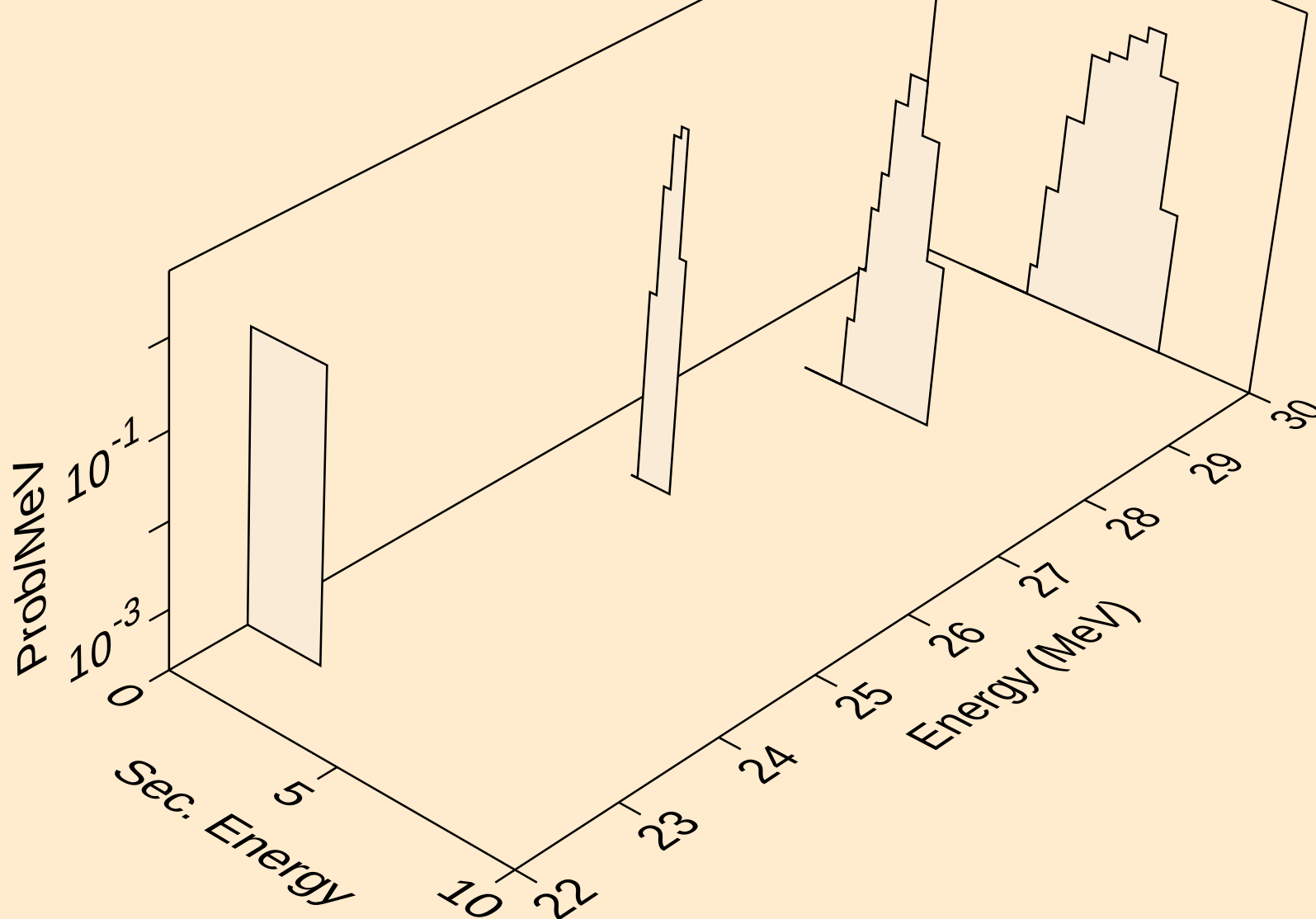
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alphas from (n,n\*)a



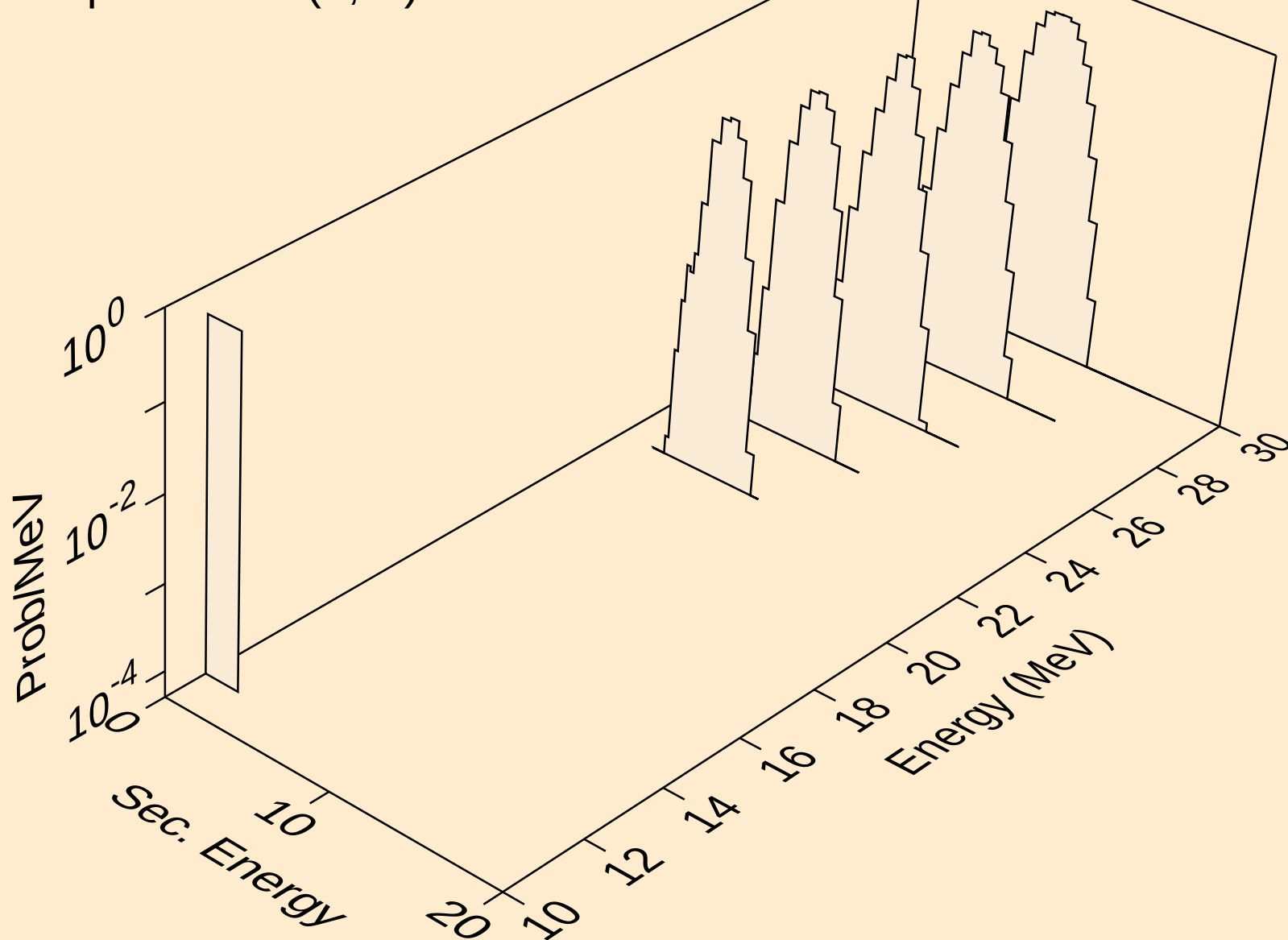
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alphas from (n,2n)a



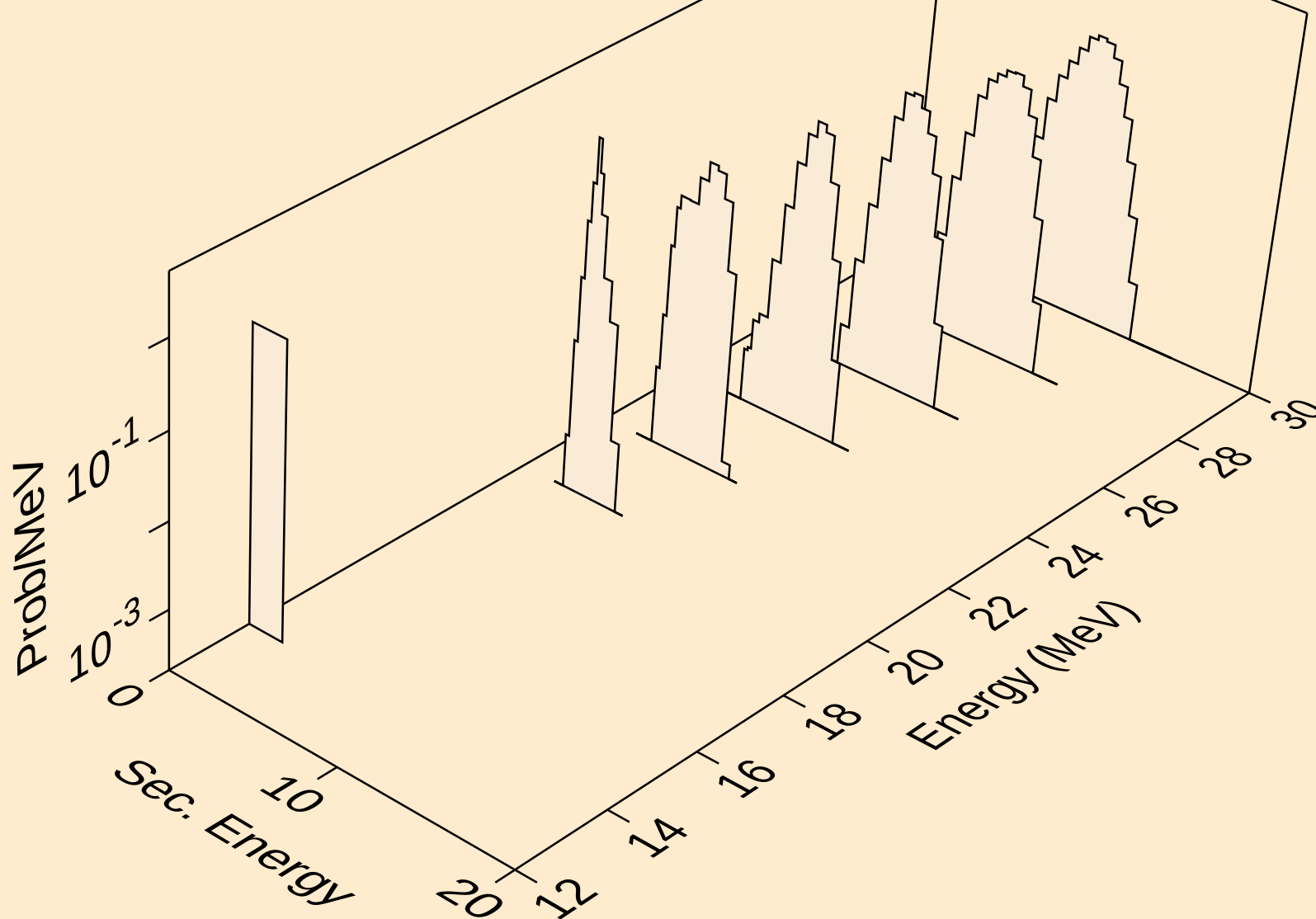
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alphas from (n,3n)a



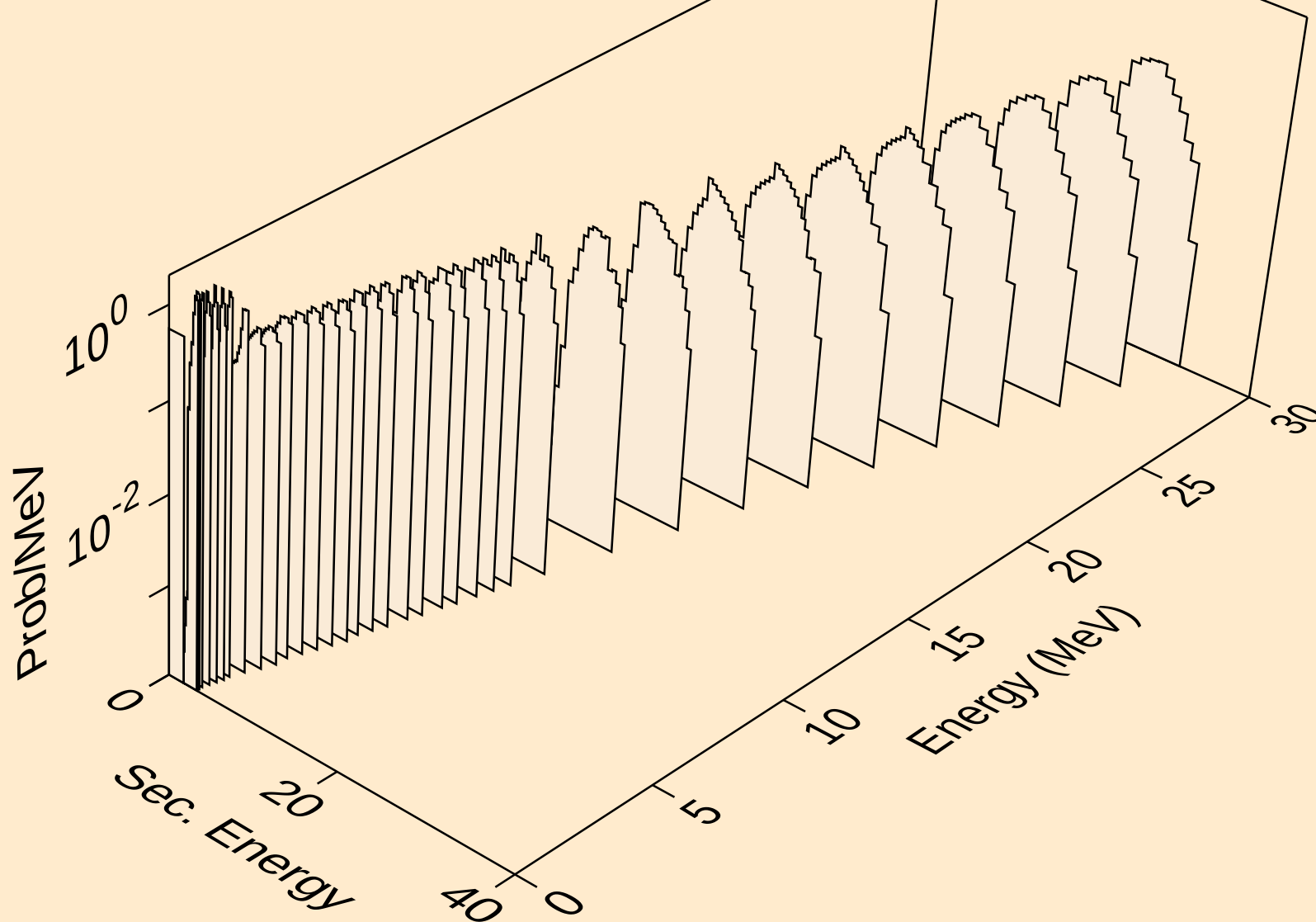
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alphas from (n,n\*)2a



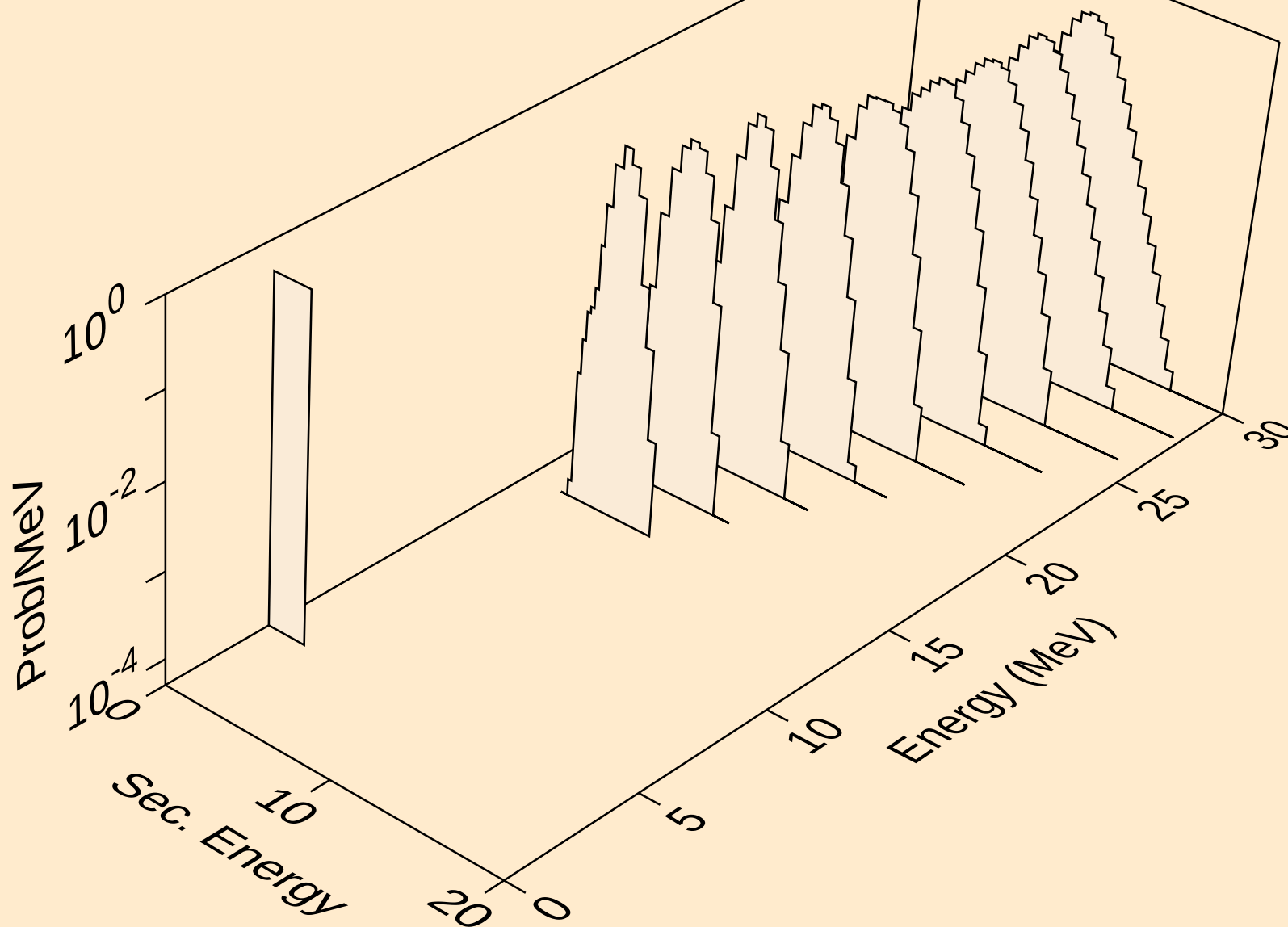
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alphas from (n,npa)



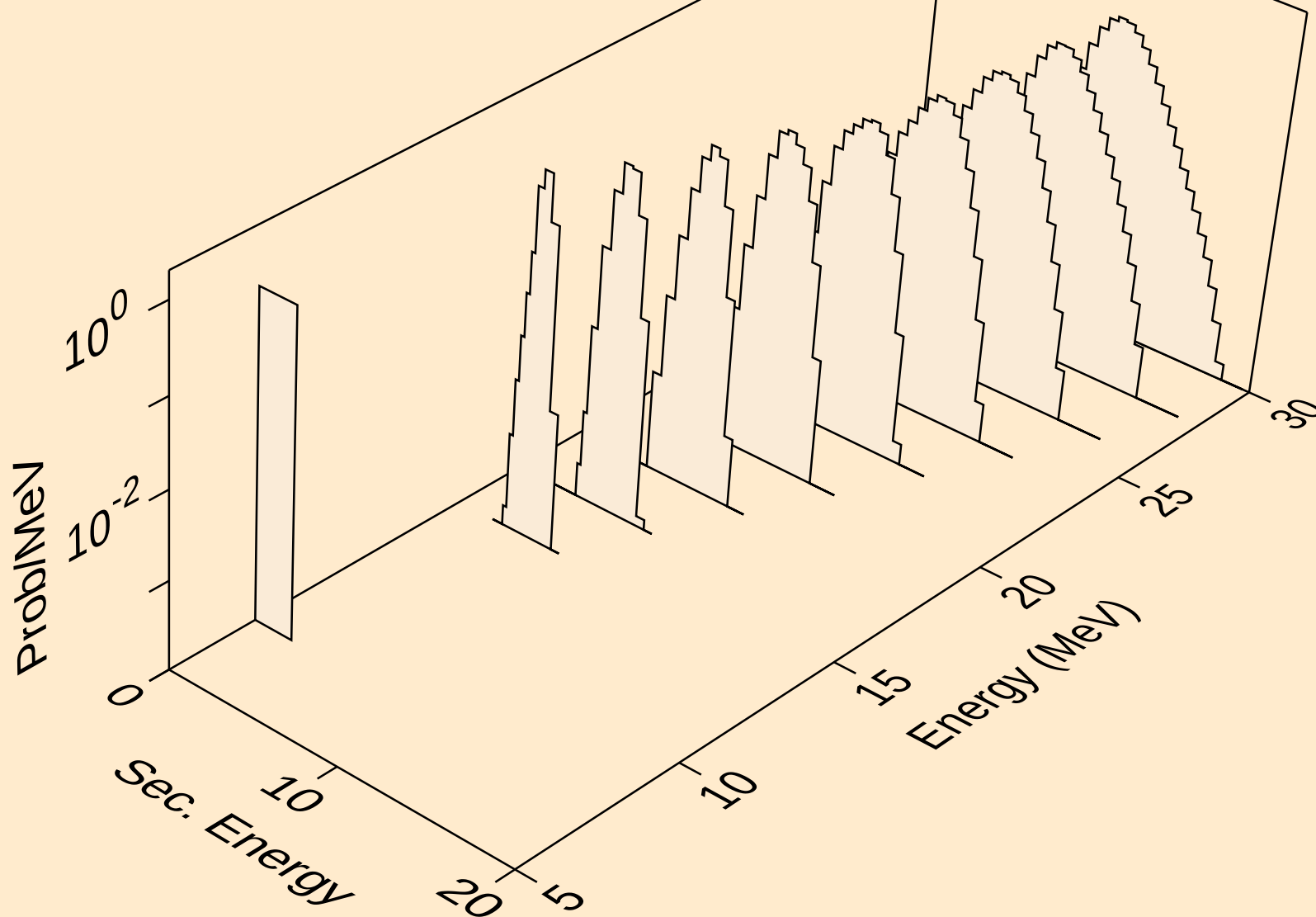
ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



ZR092 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

