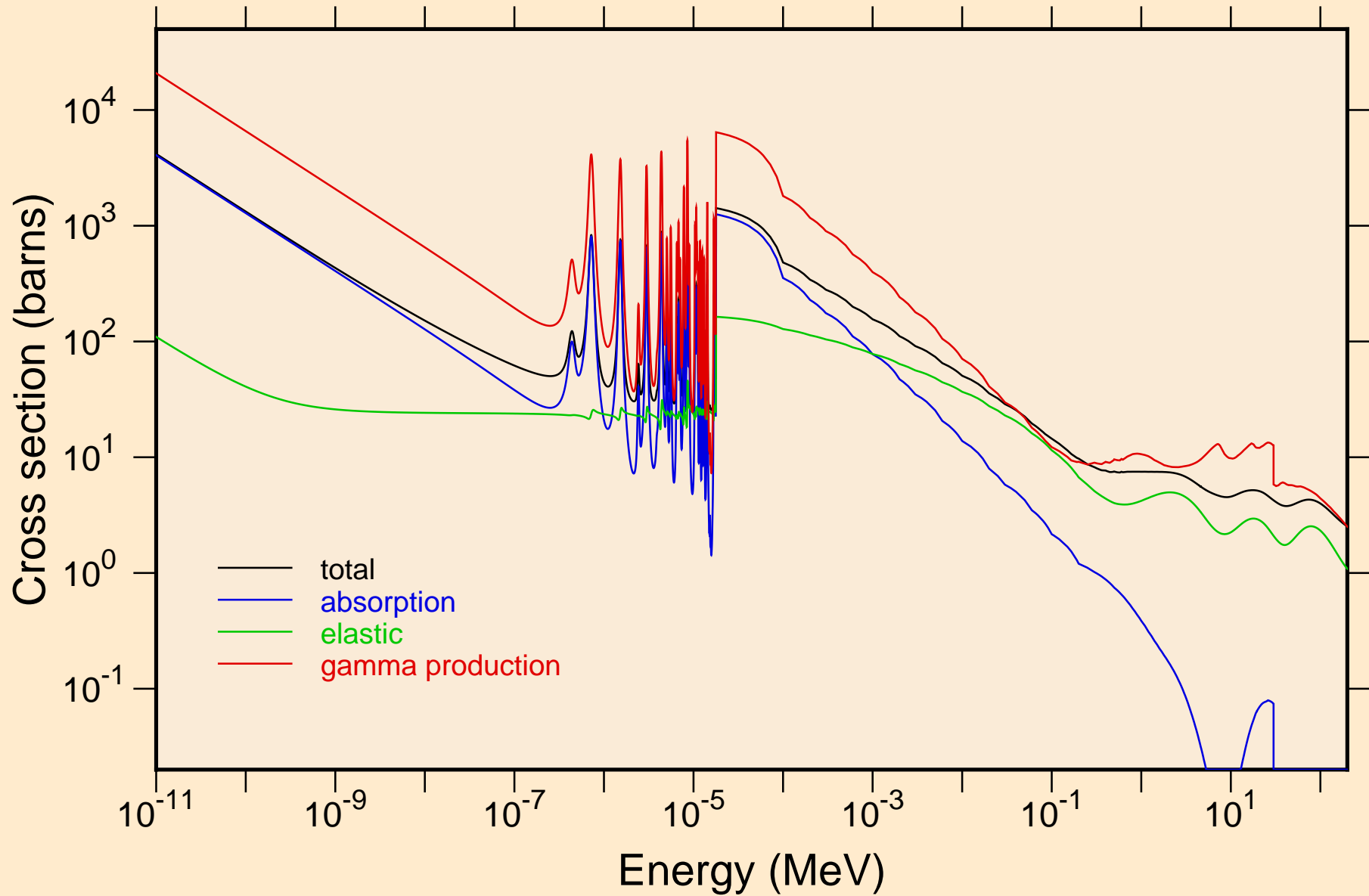
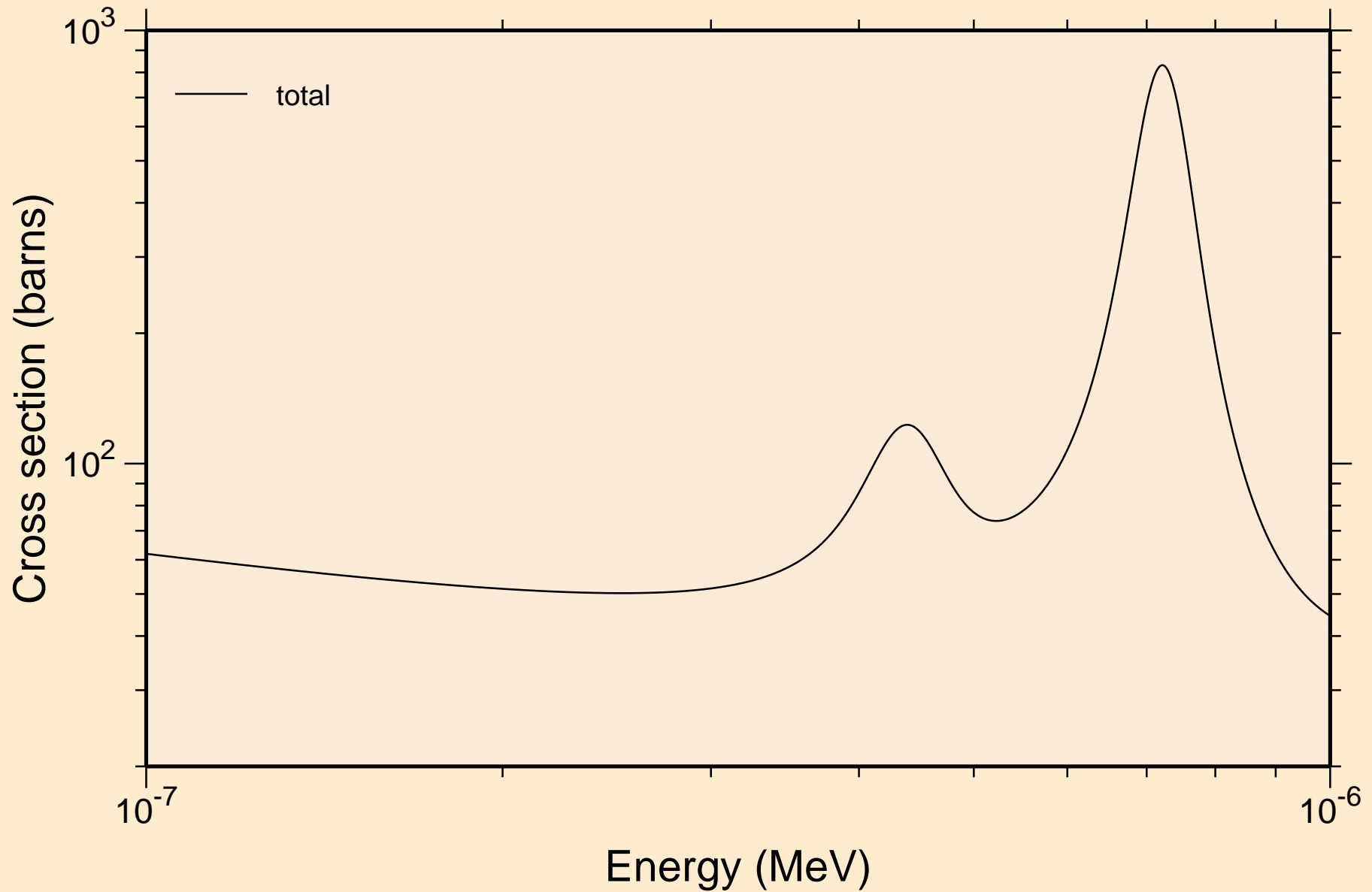


# ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

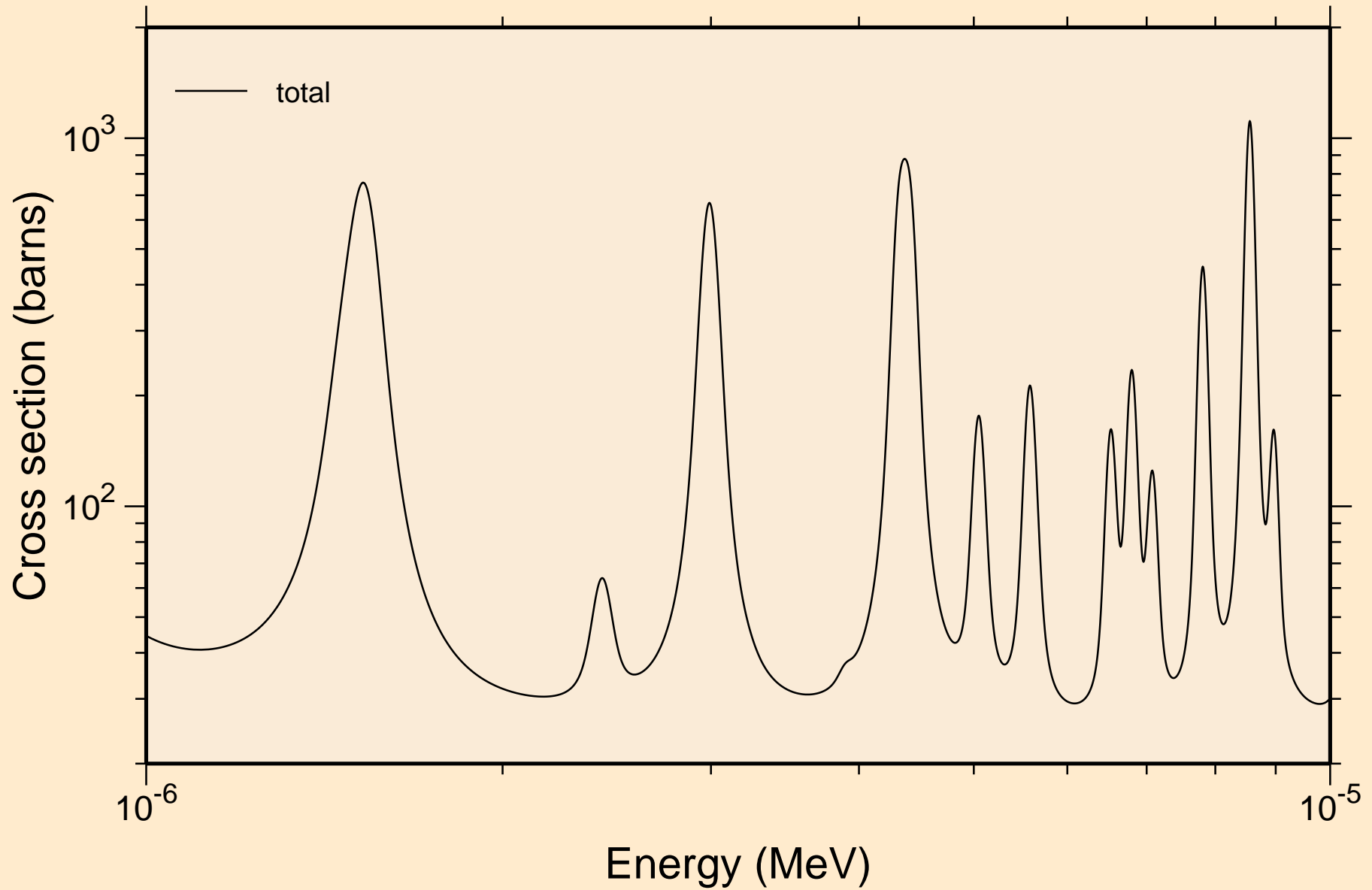
## Principal cross sections



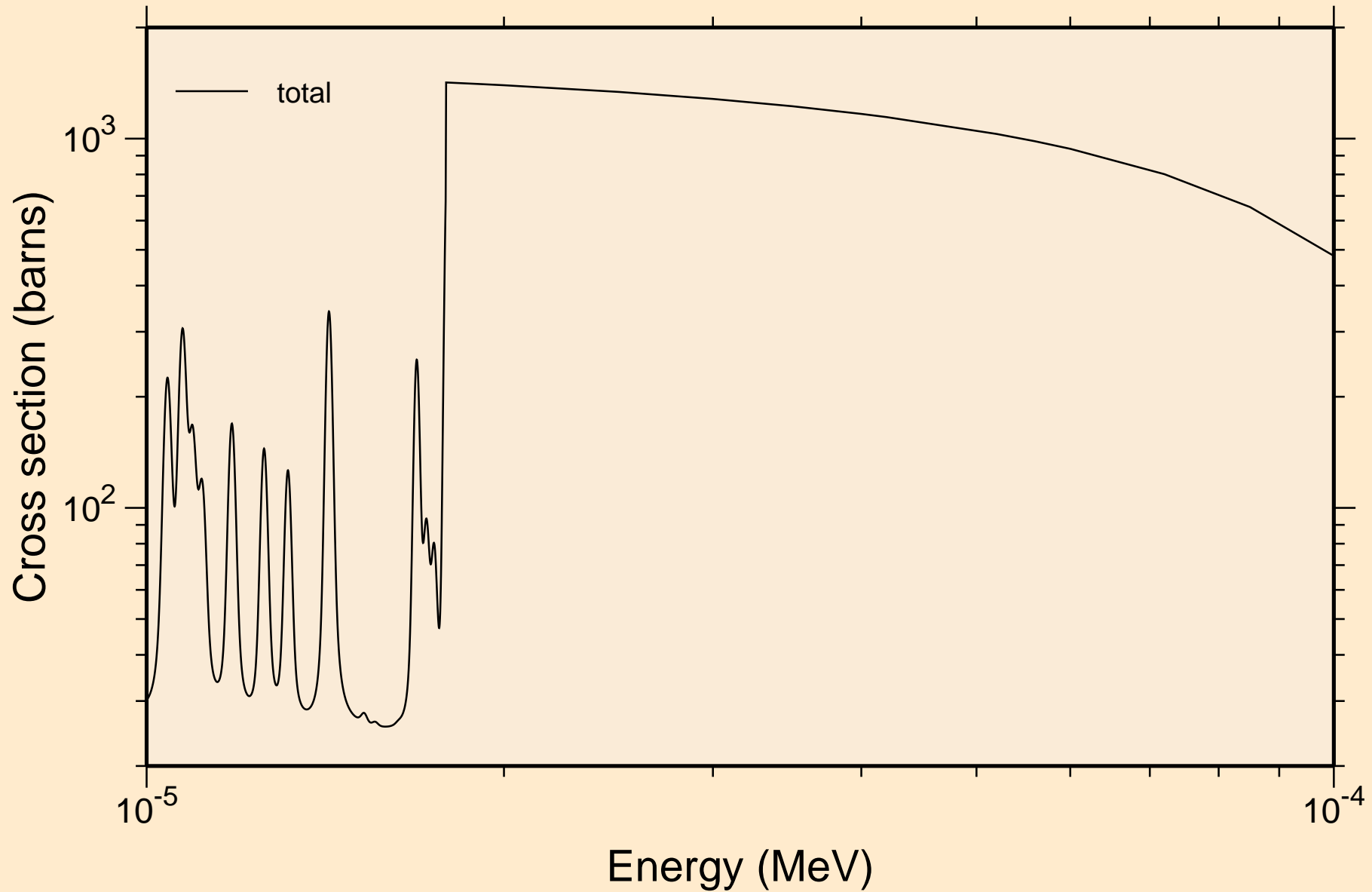
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



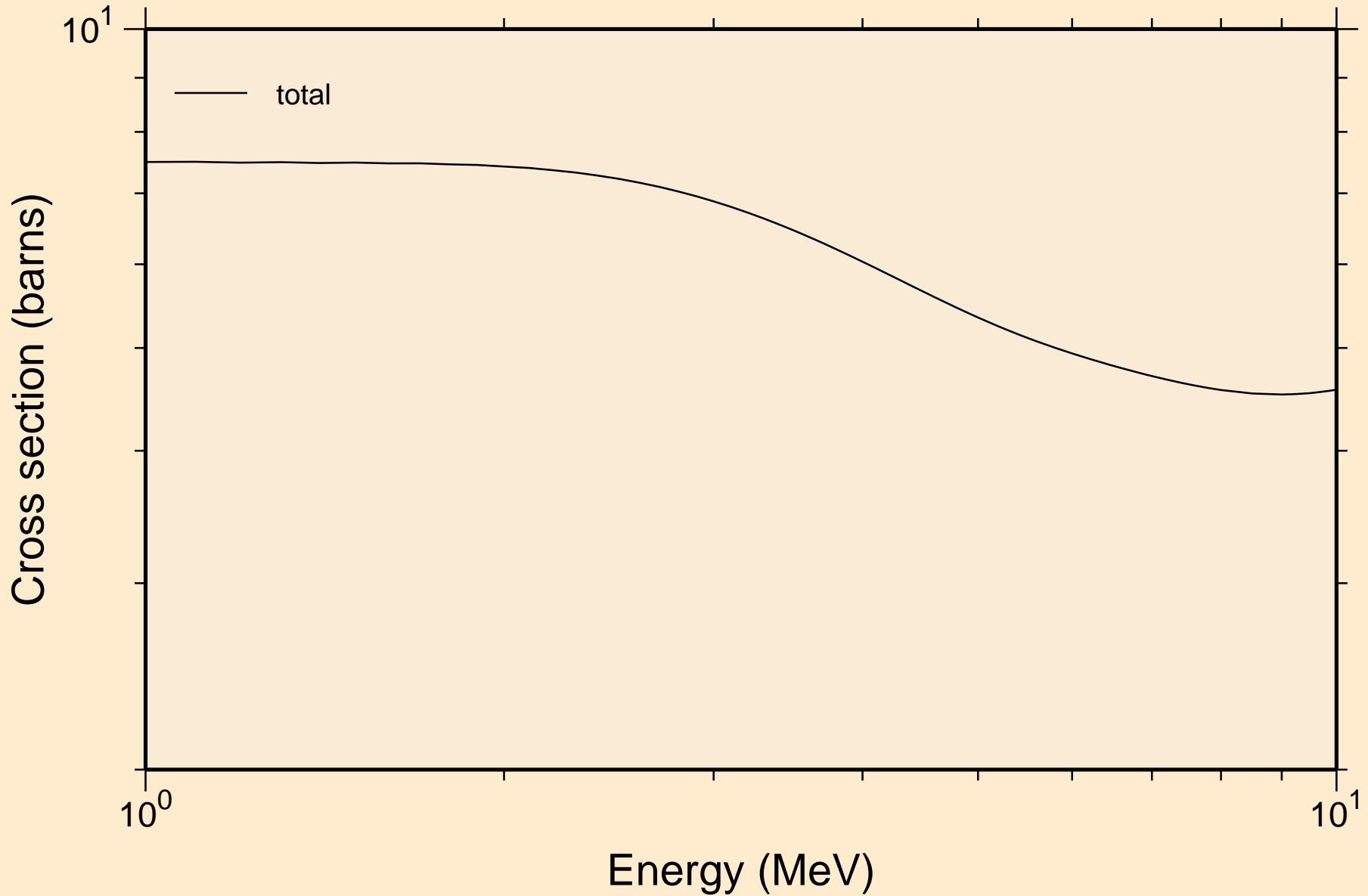
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



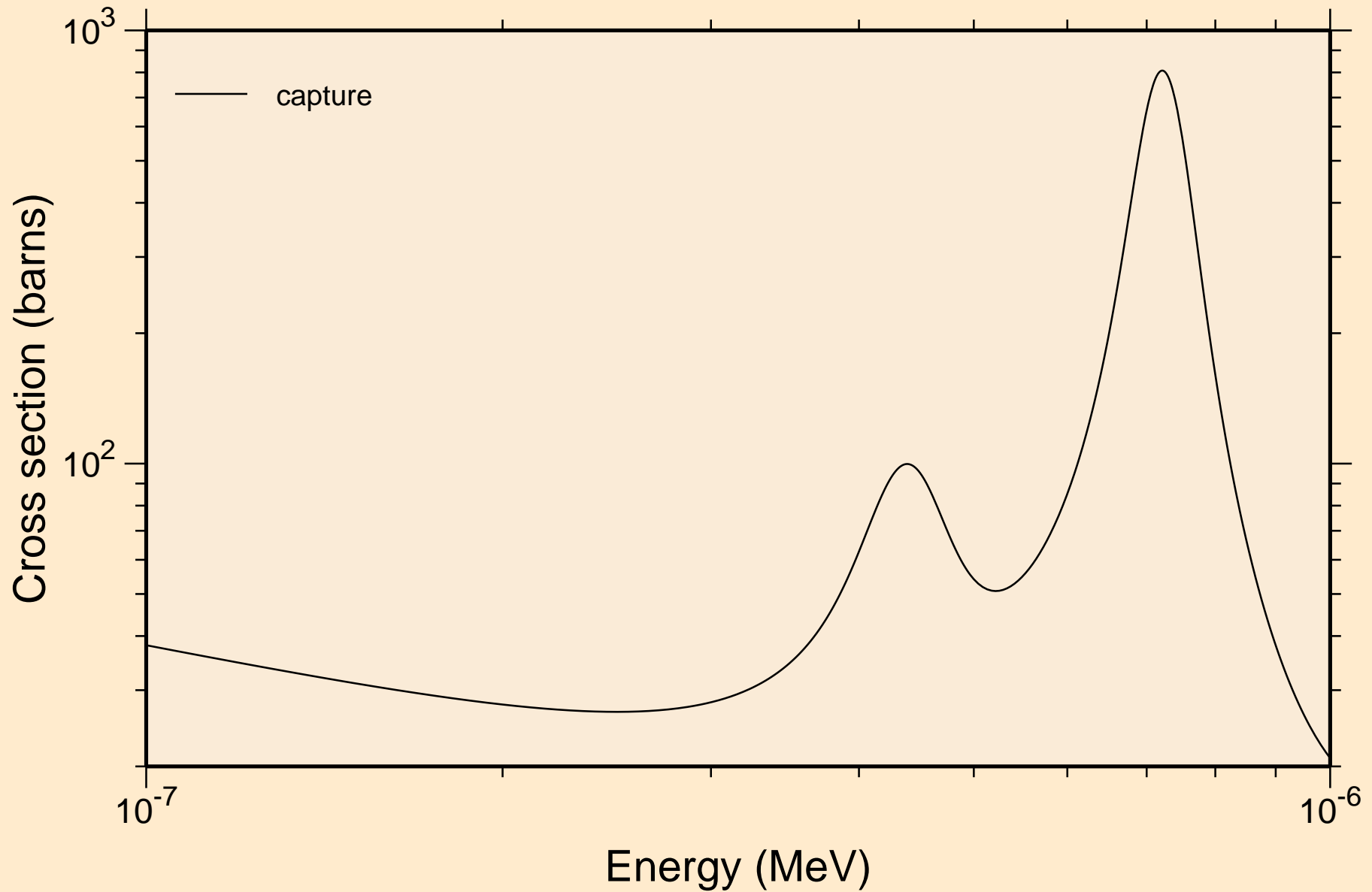
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



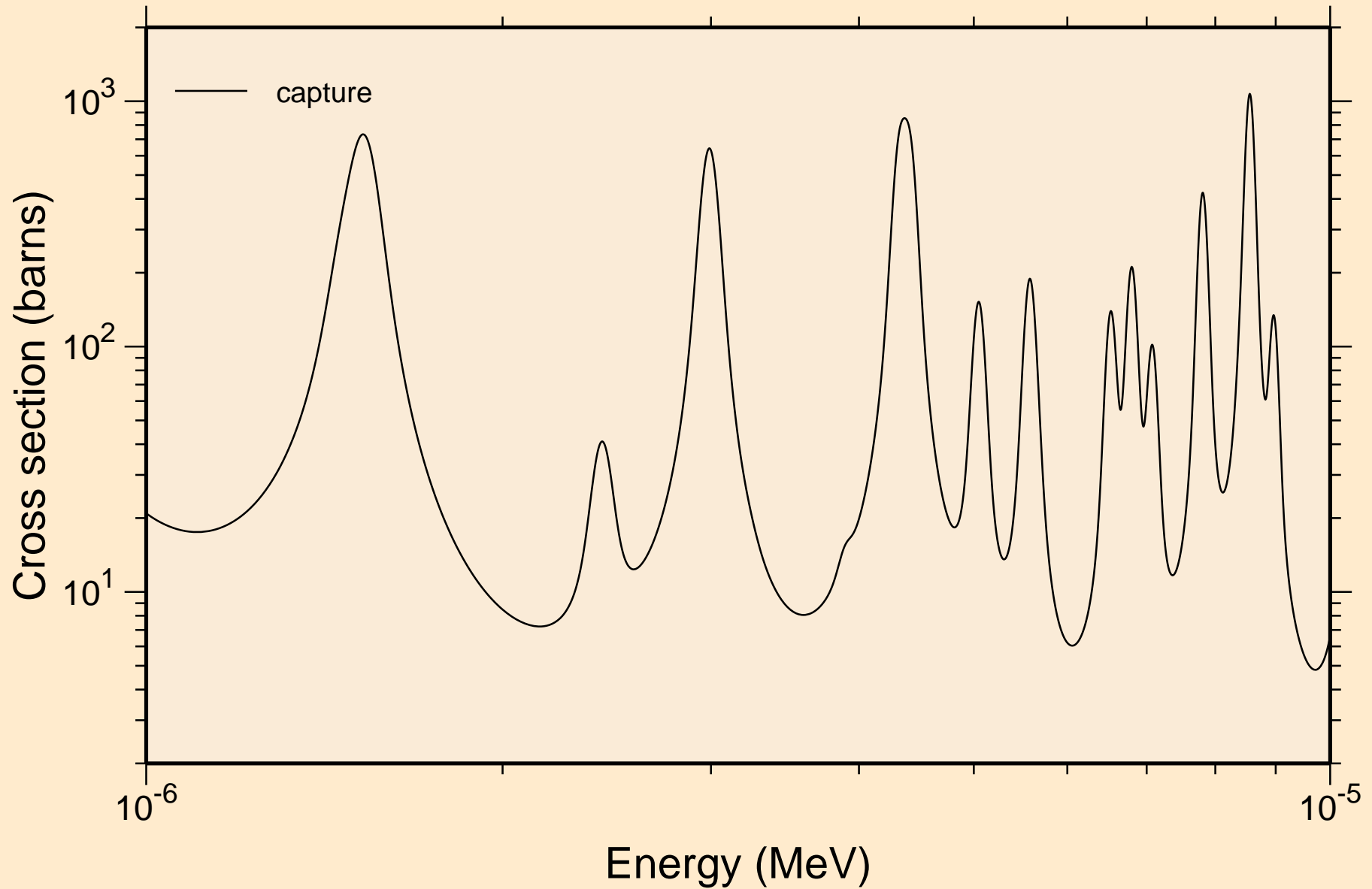
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



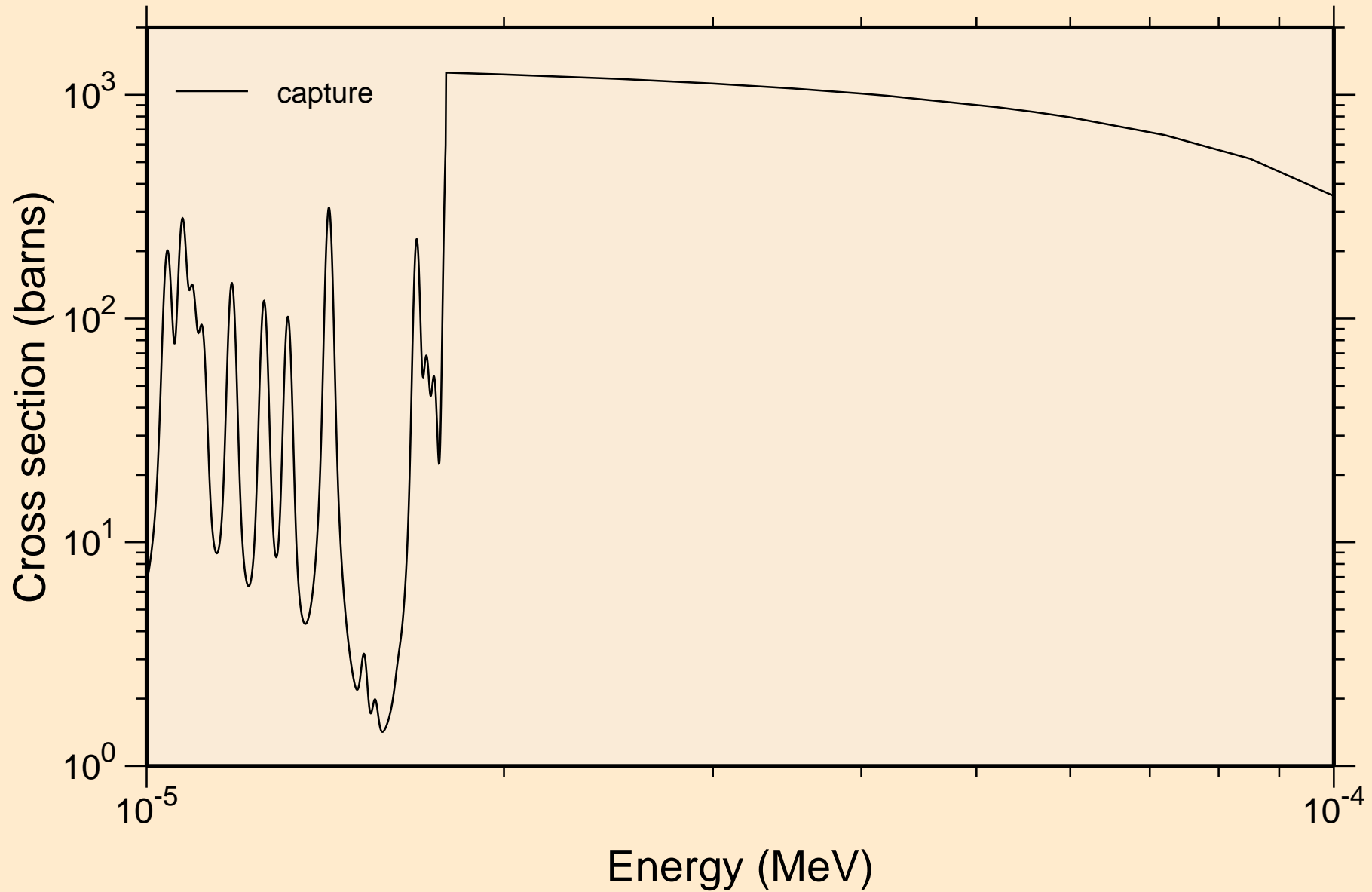
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



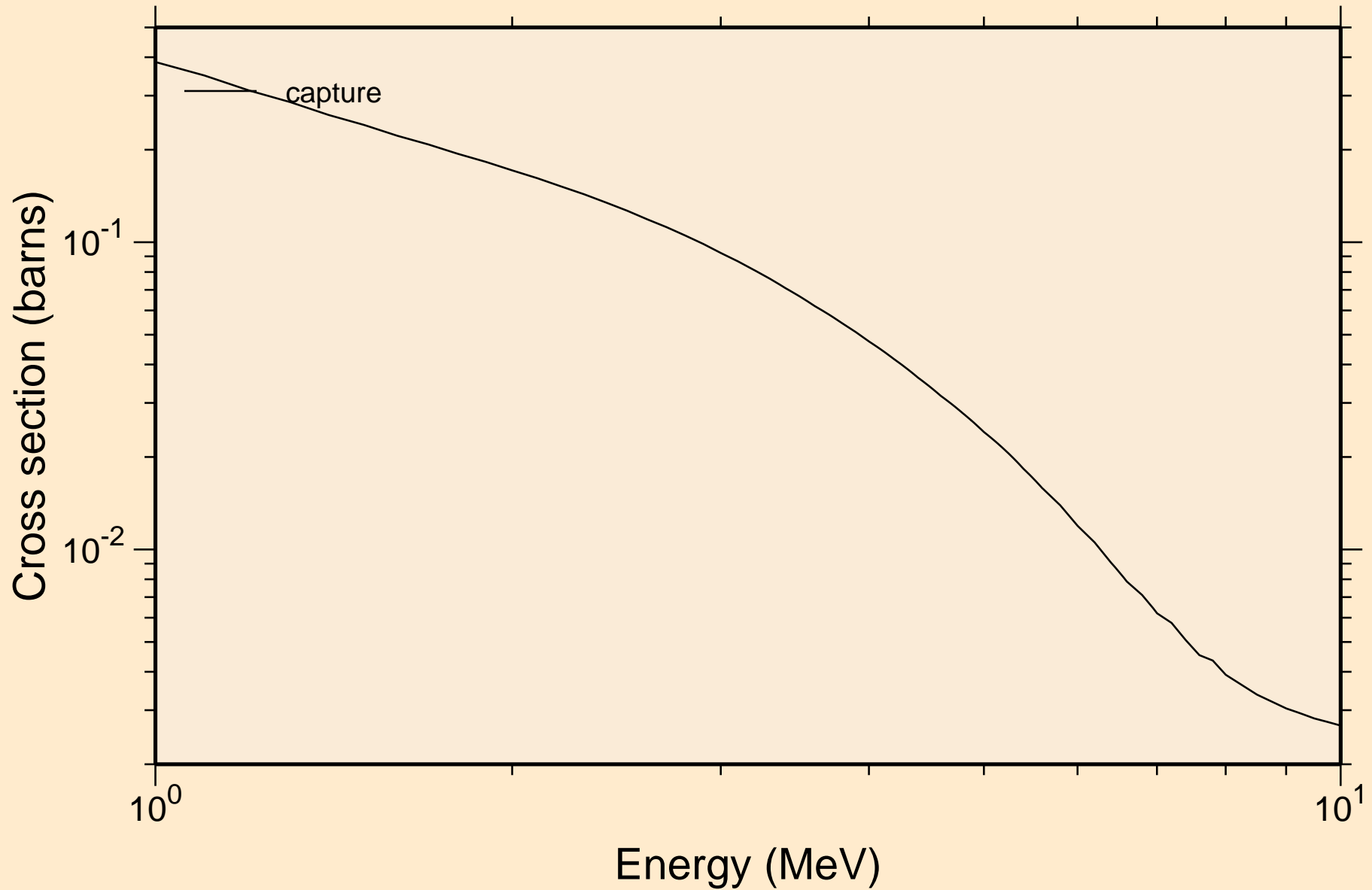
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



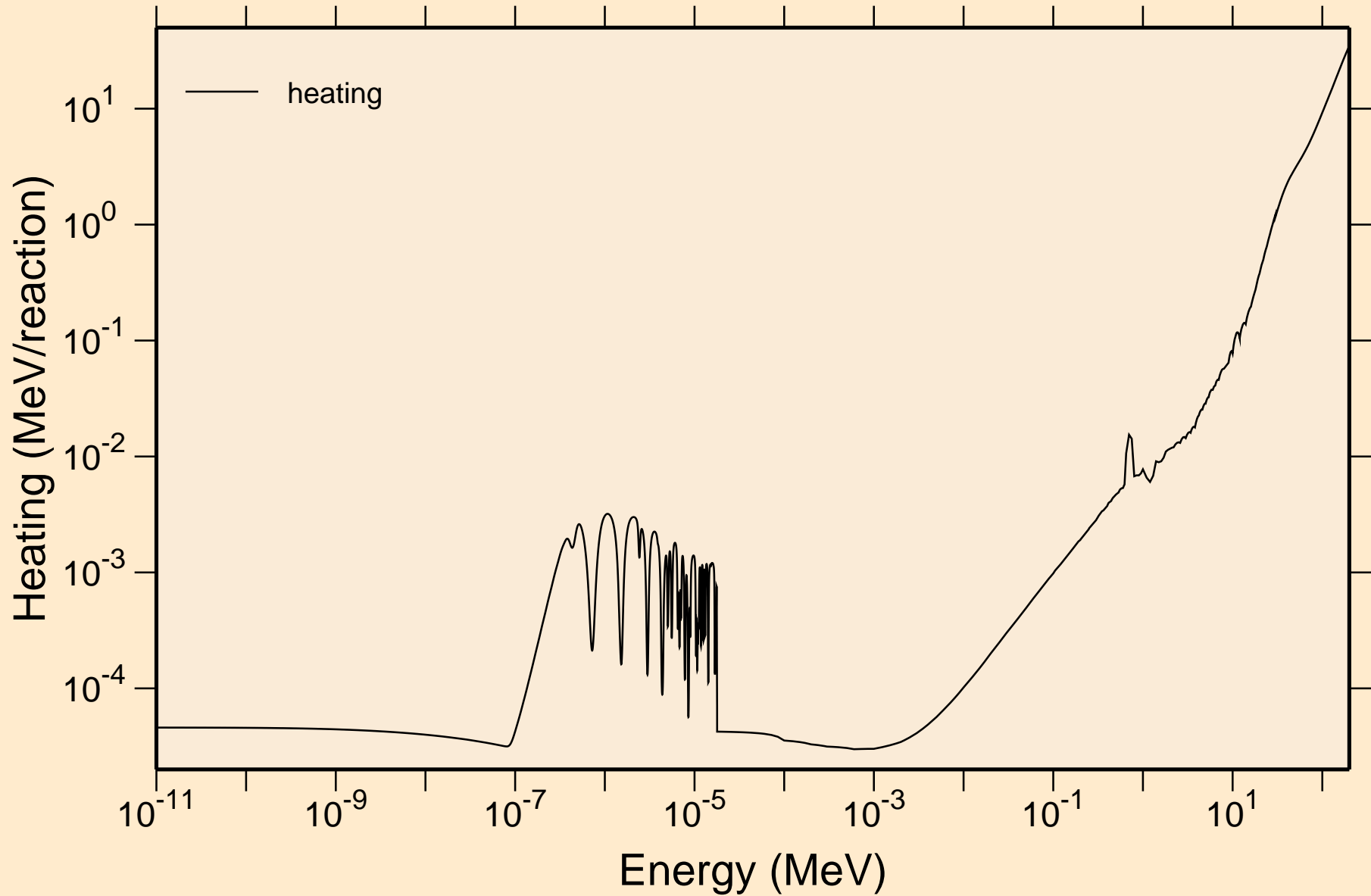
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections

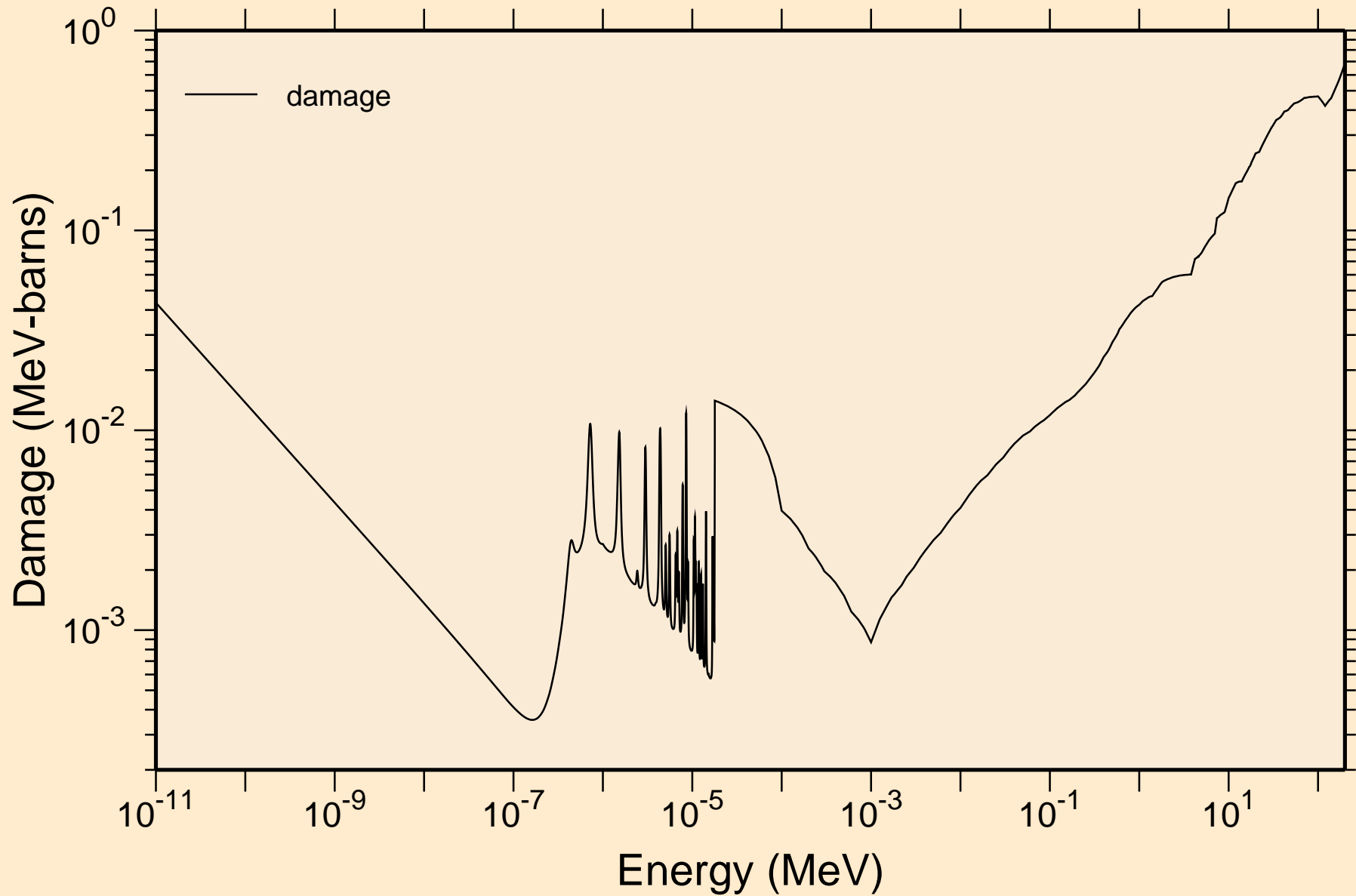


ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Heating



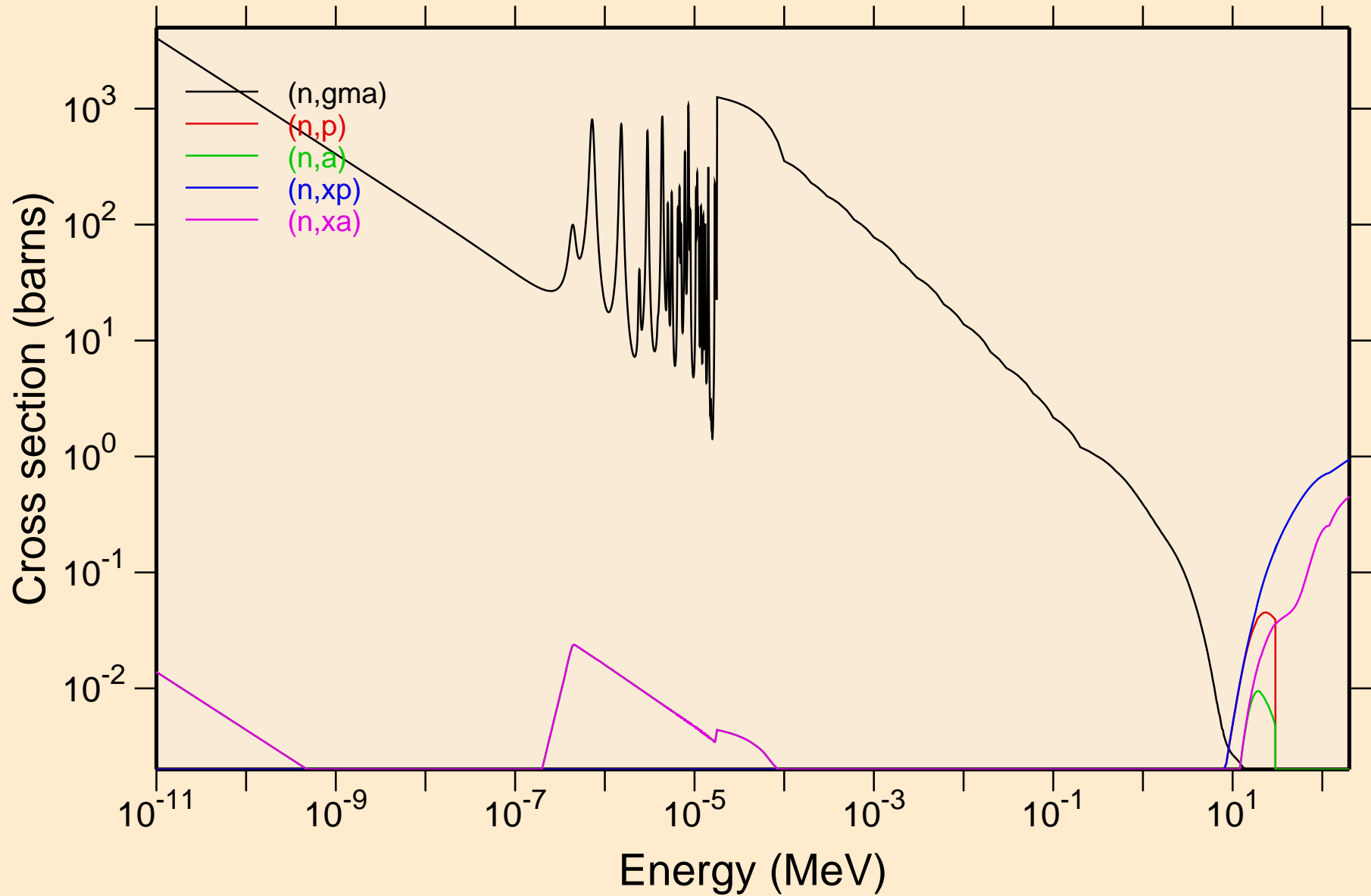
# ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Damage



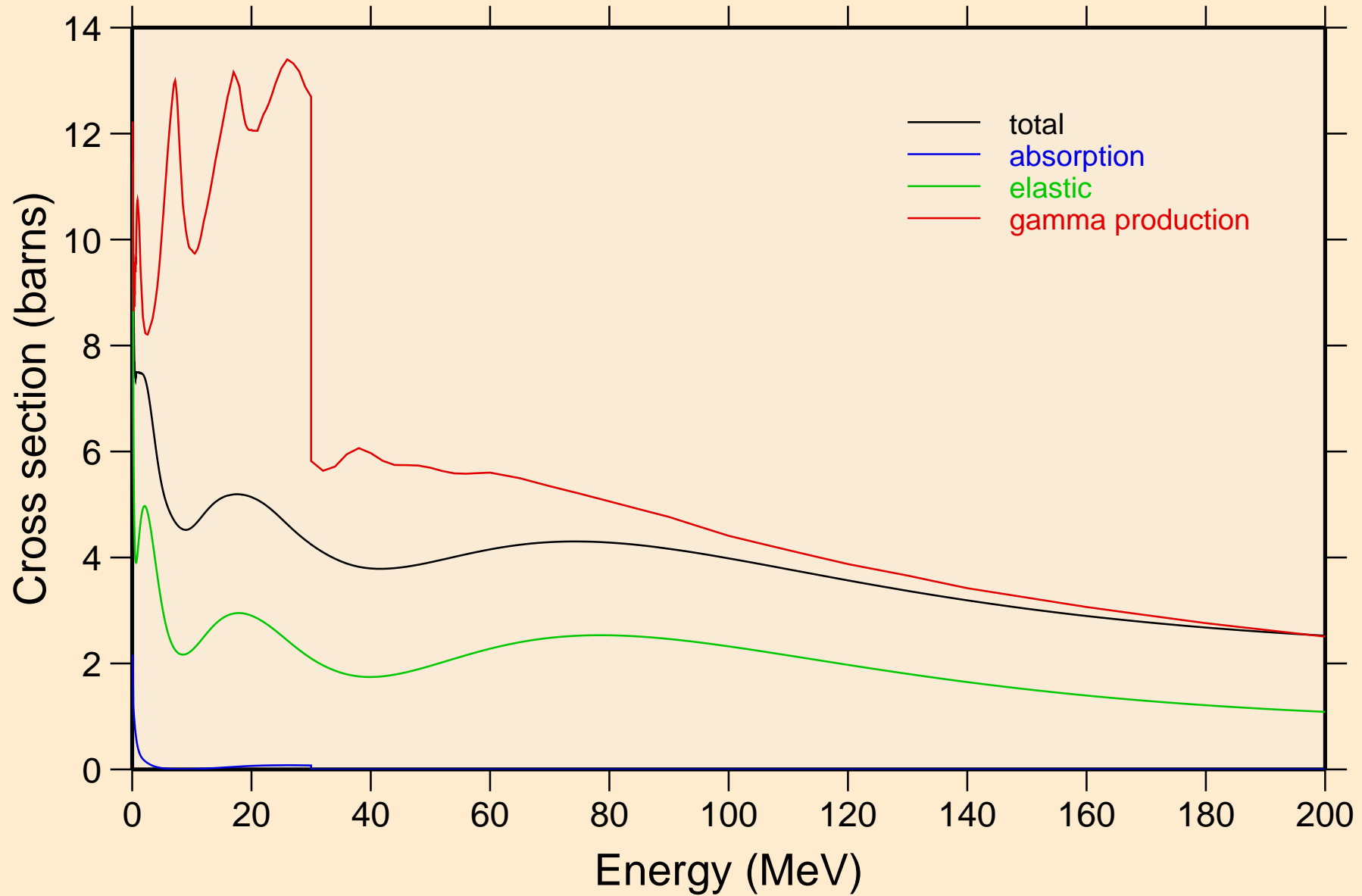
# ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Non-threshold reactions



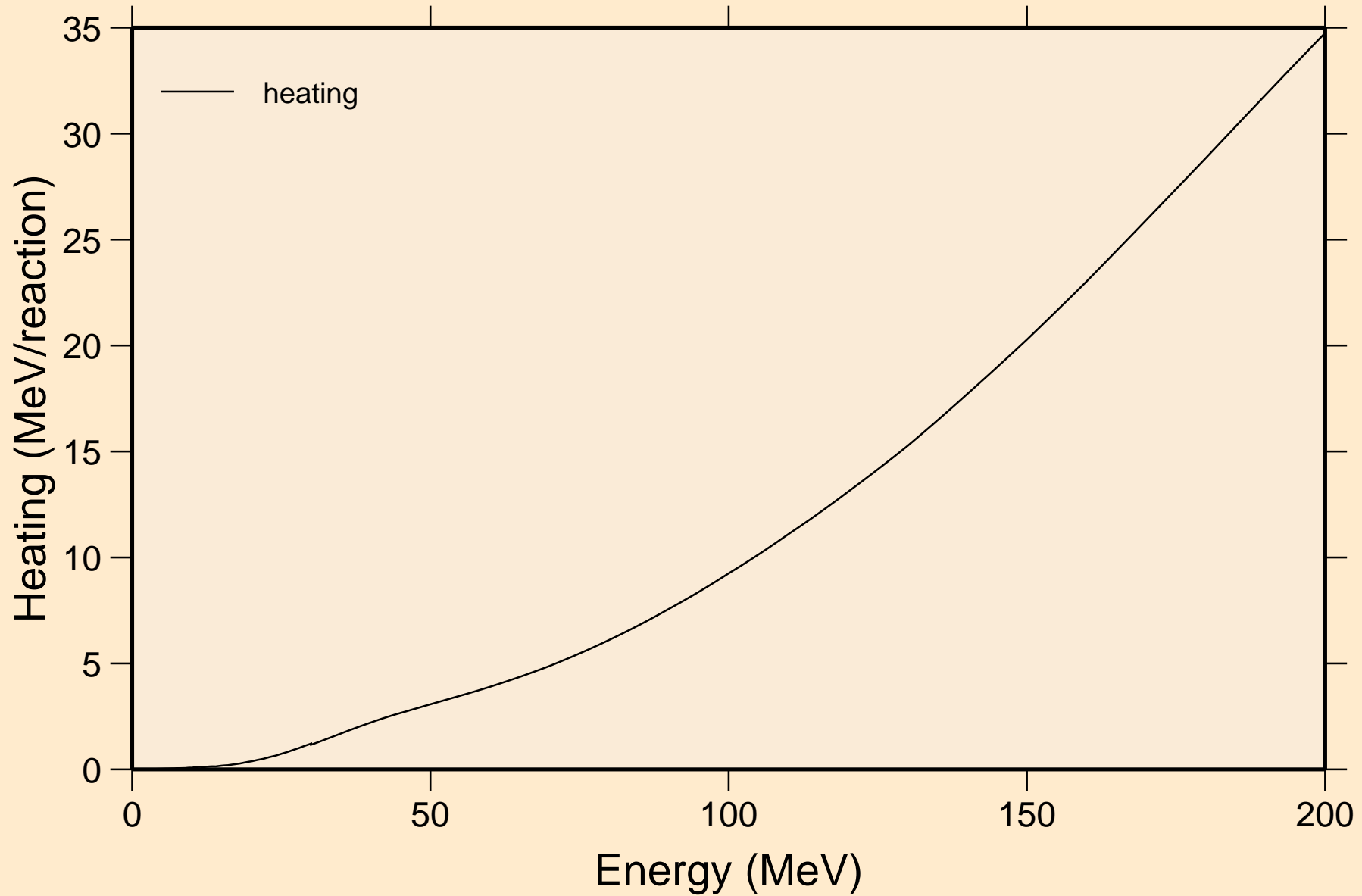
# ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Principal cross sections



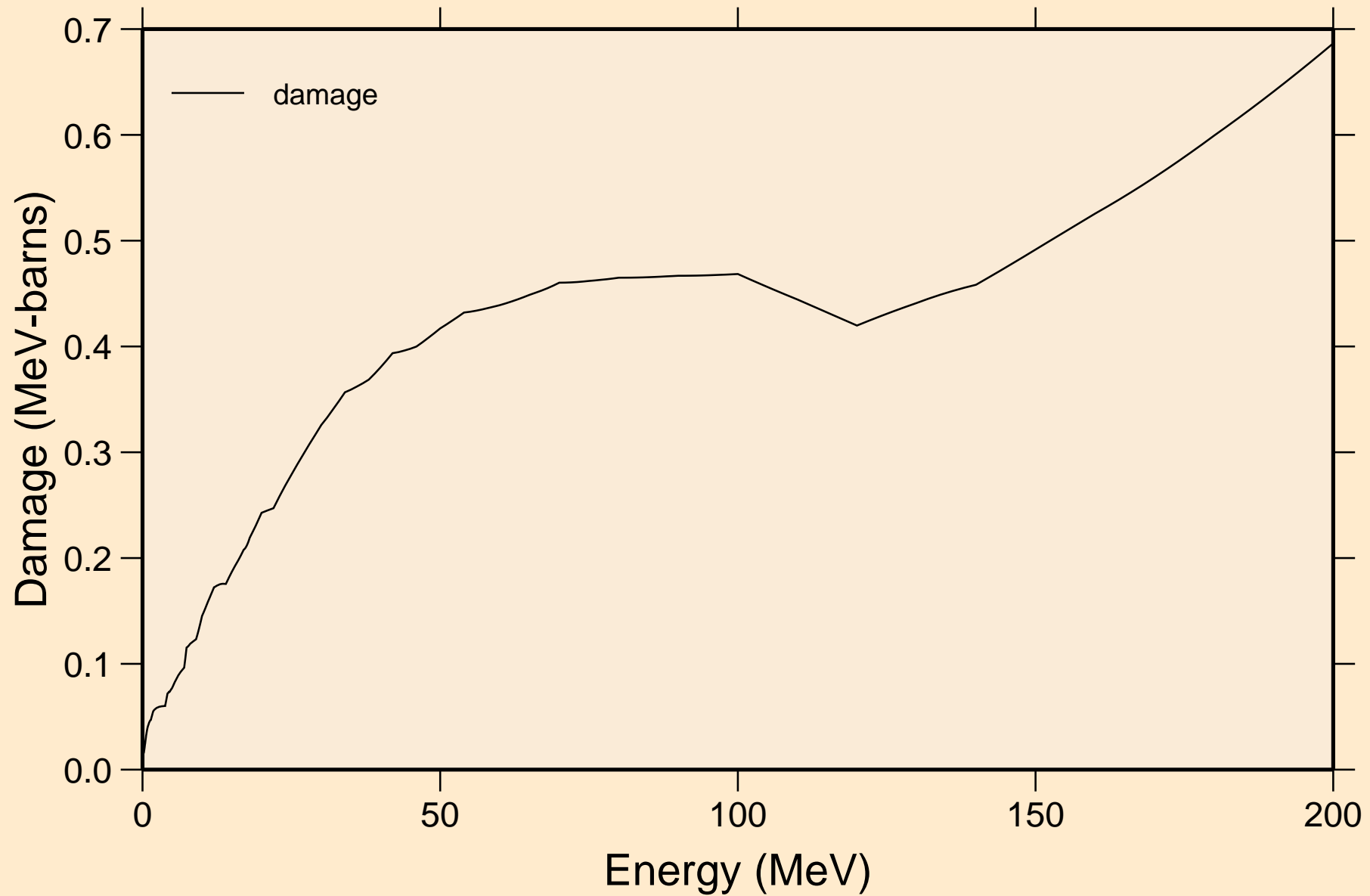
# ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Heating



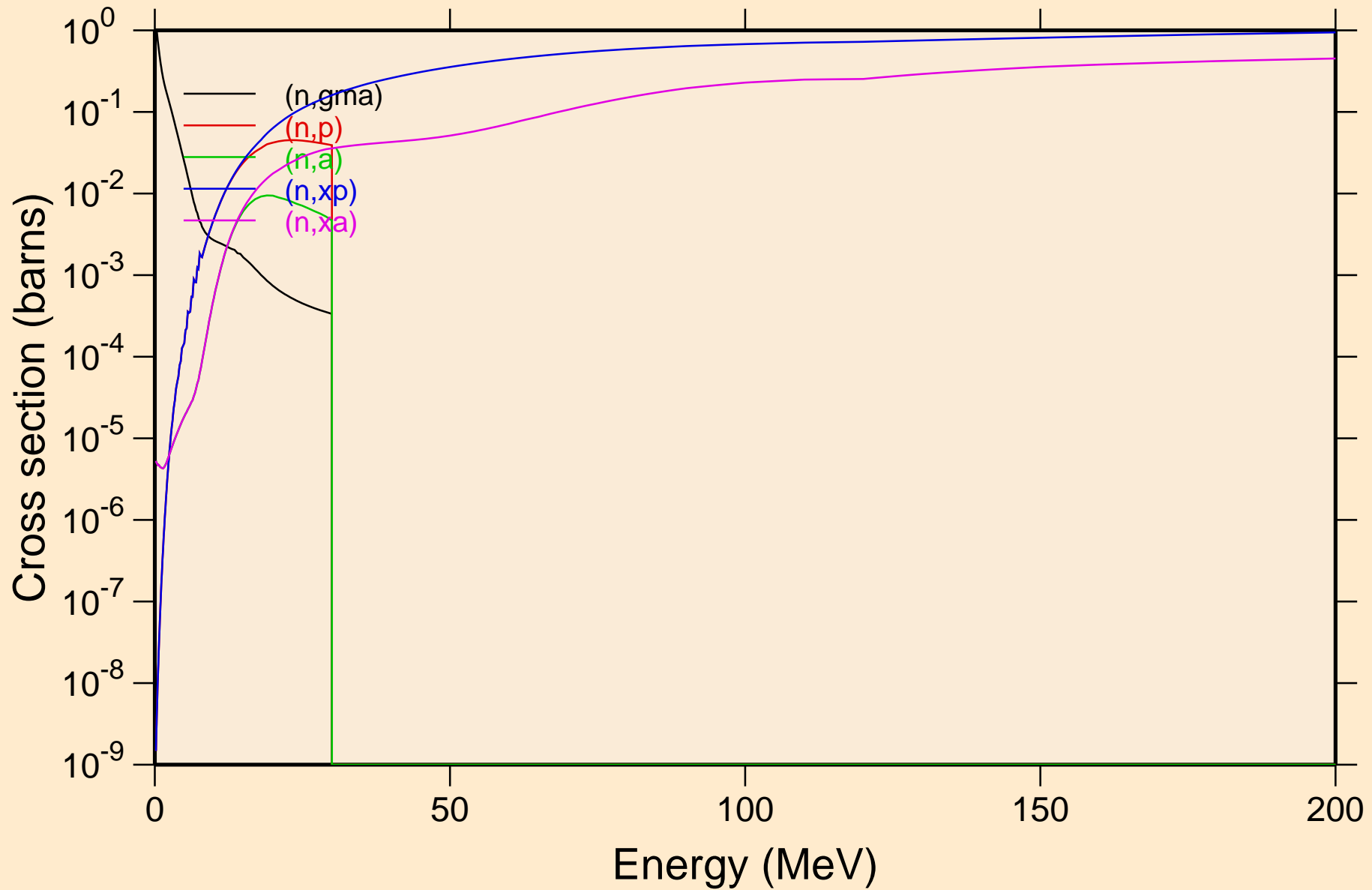
# ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Damage

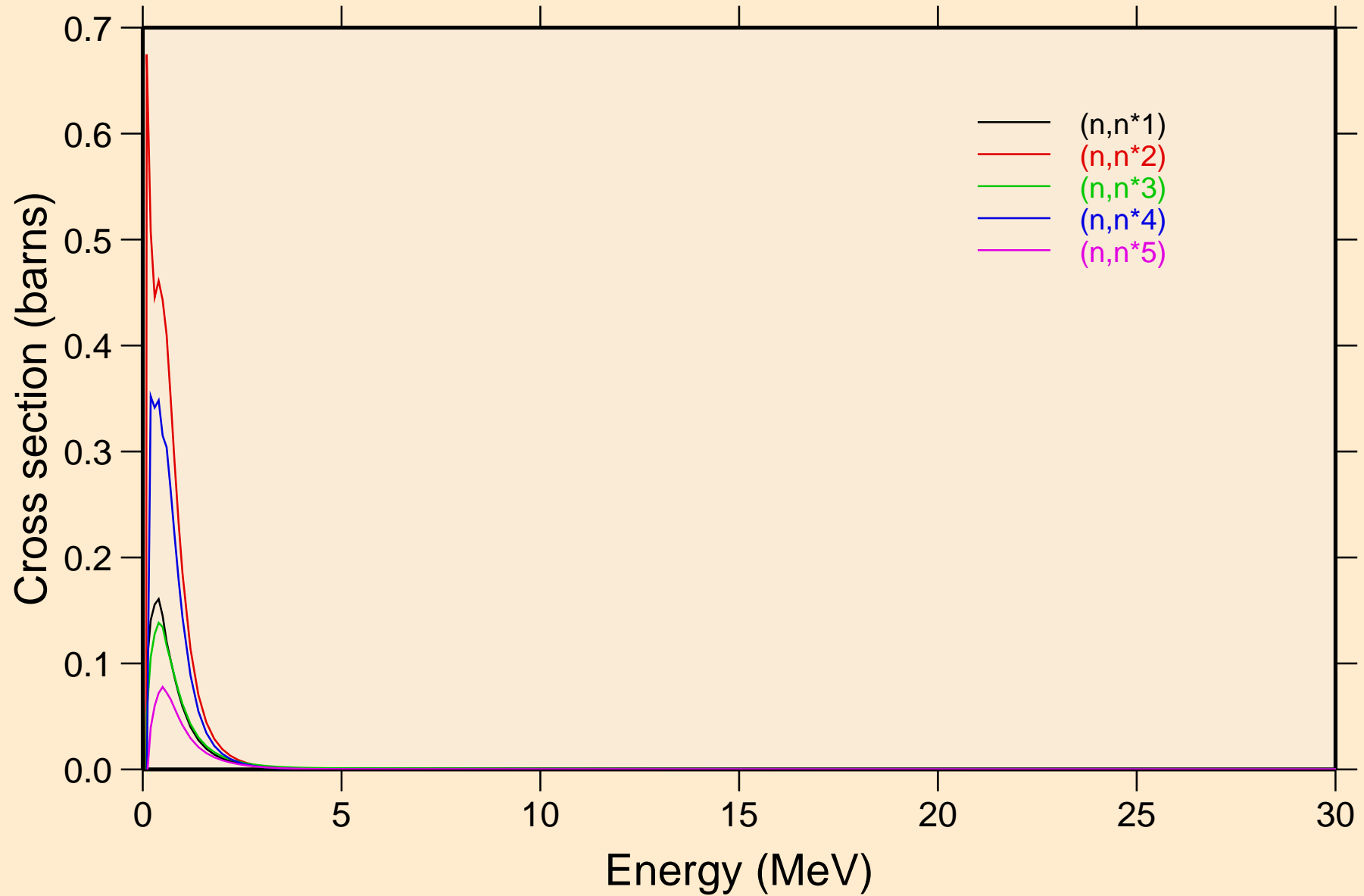


# ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

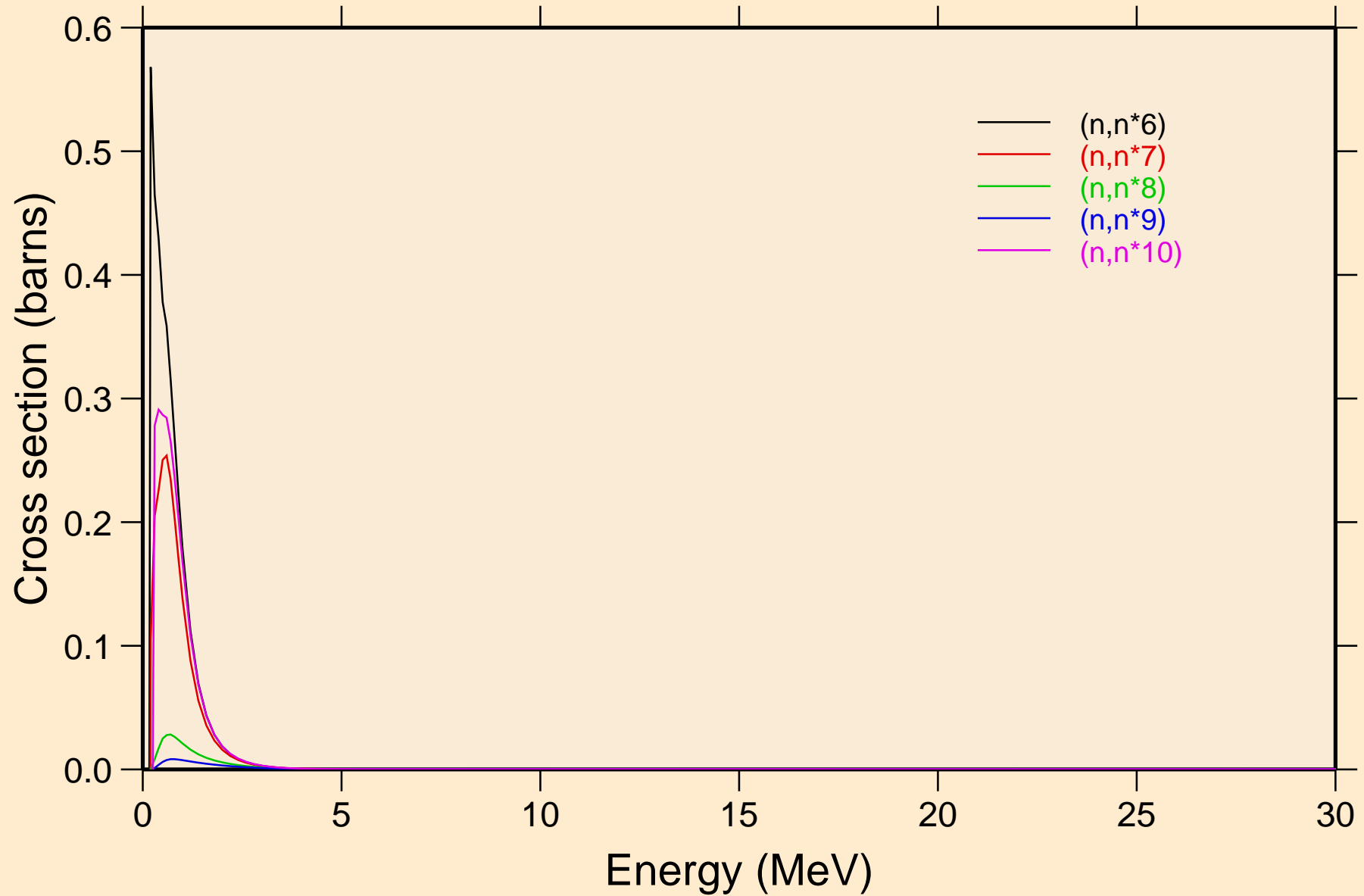
## Non-threshold reactions



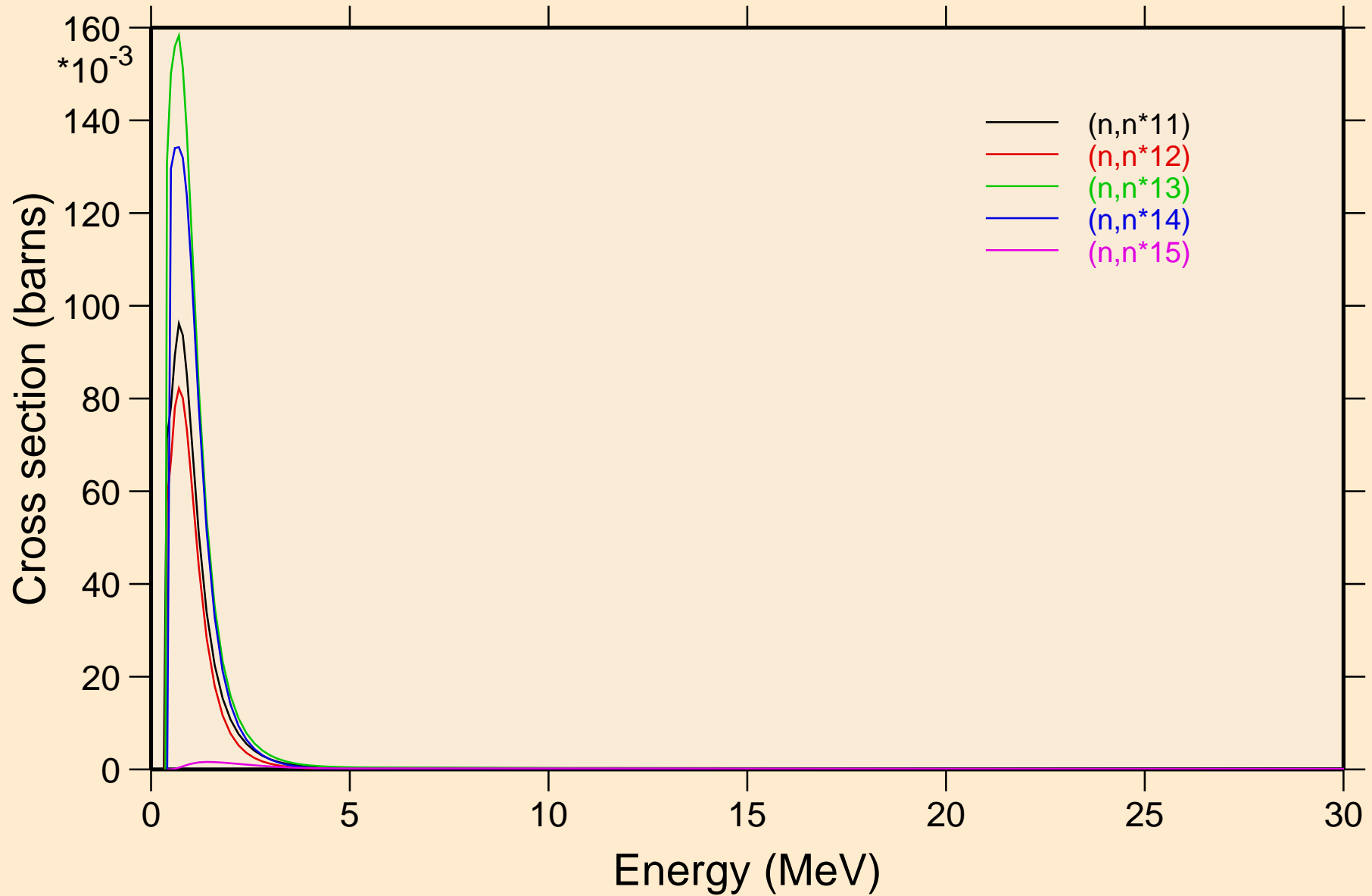
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



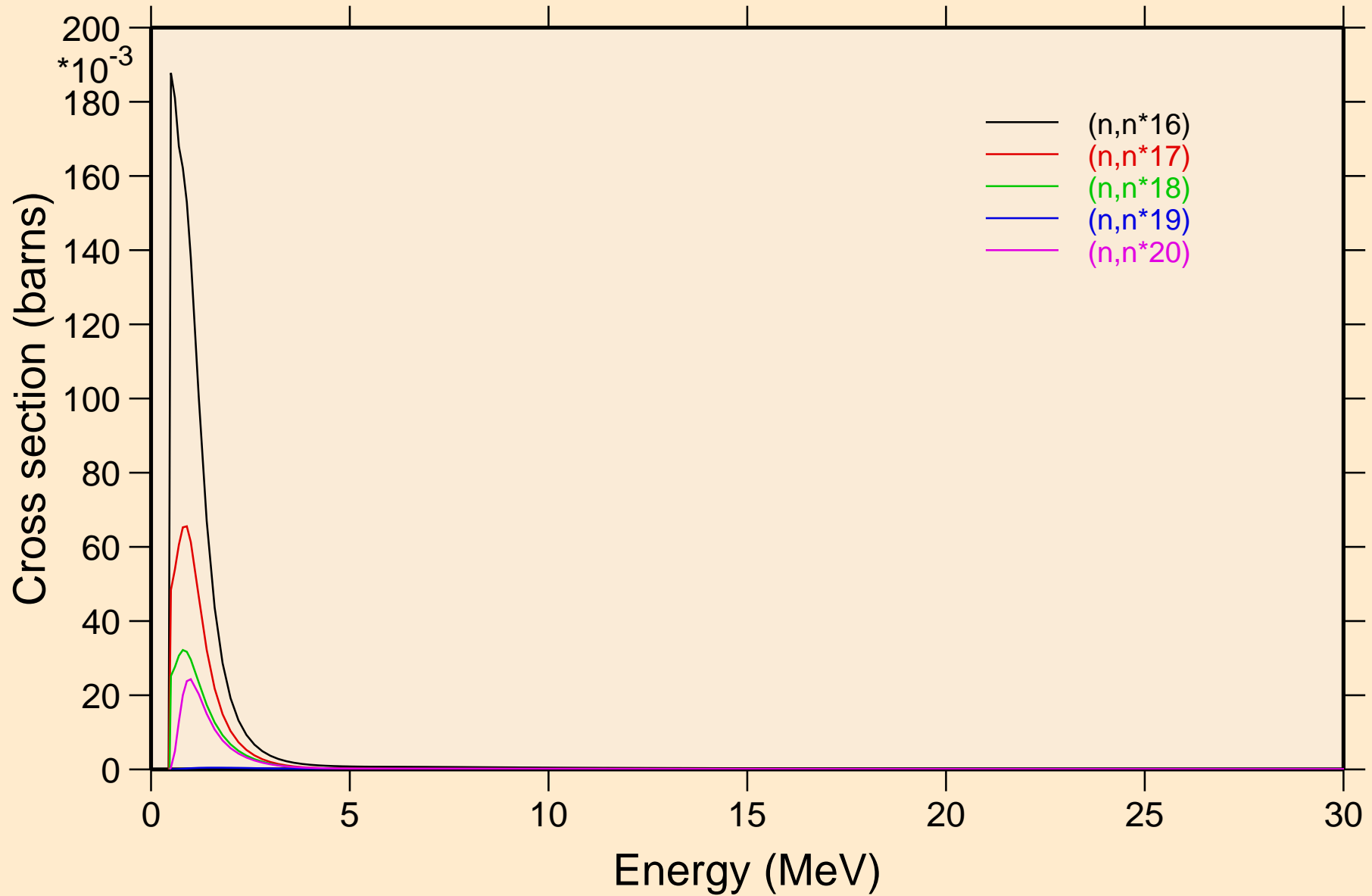
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



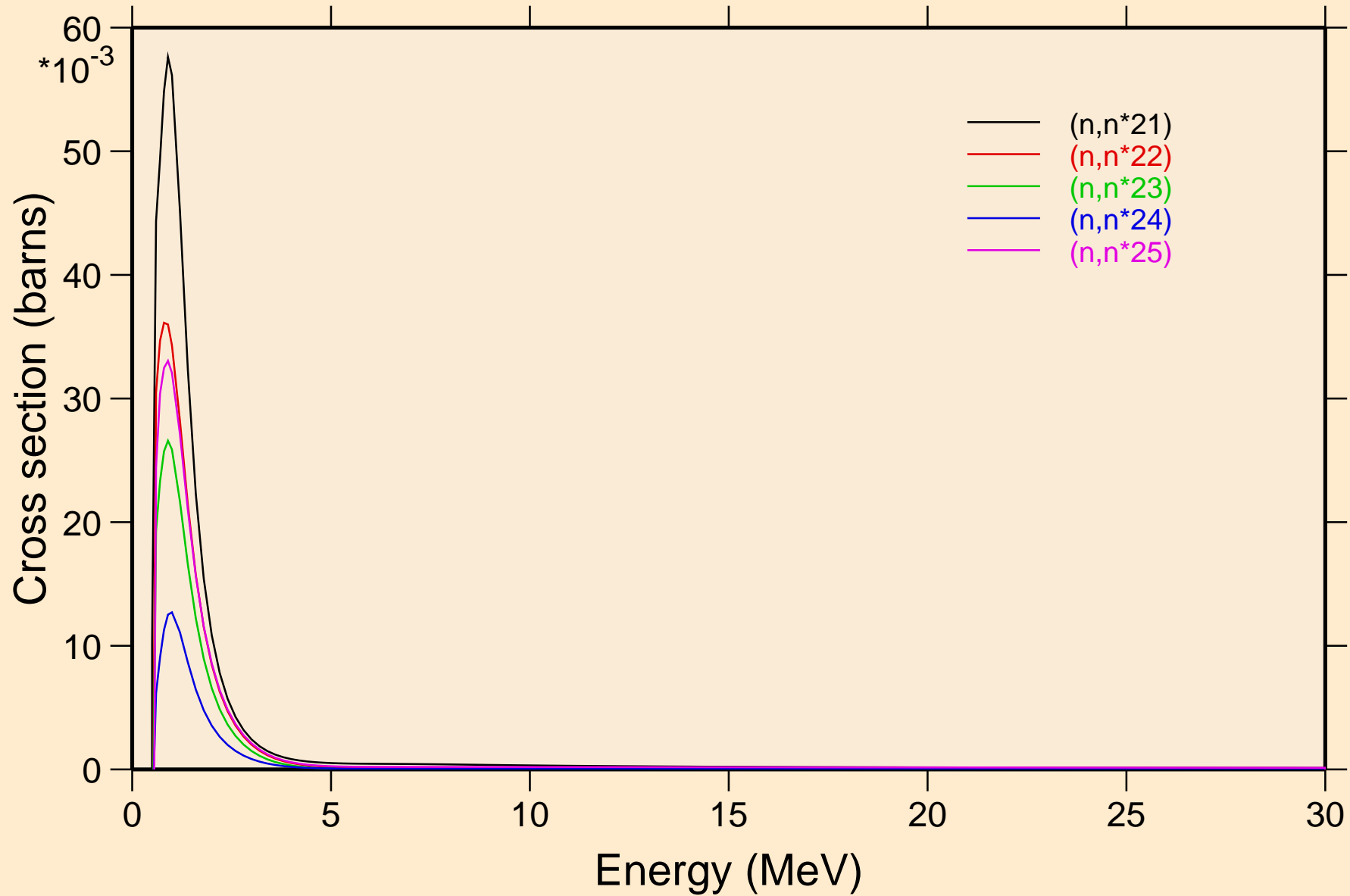
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



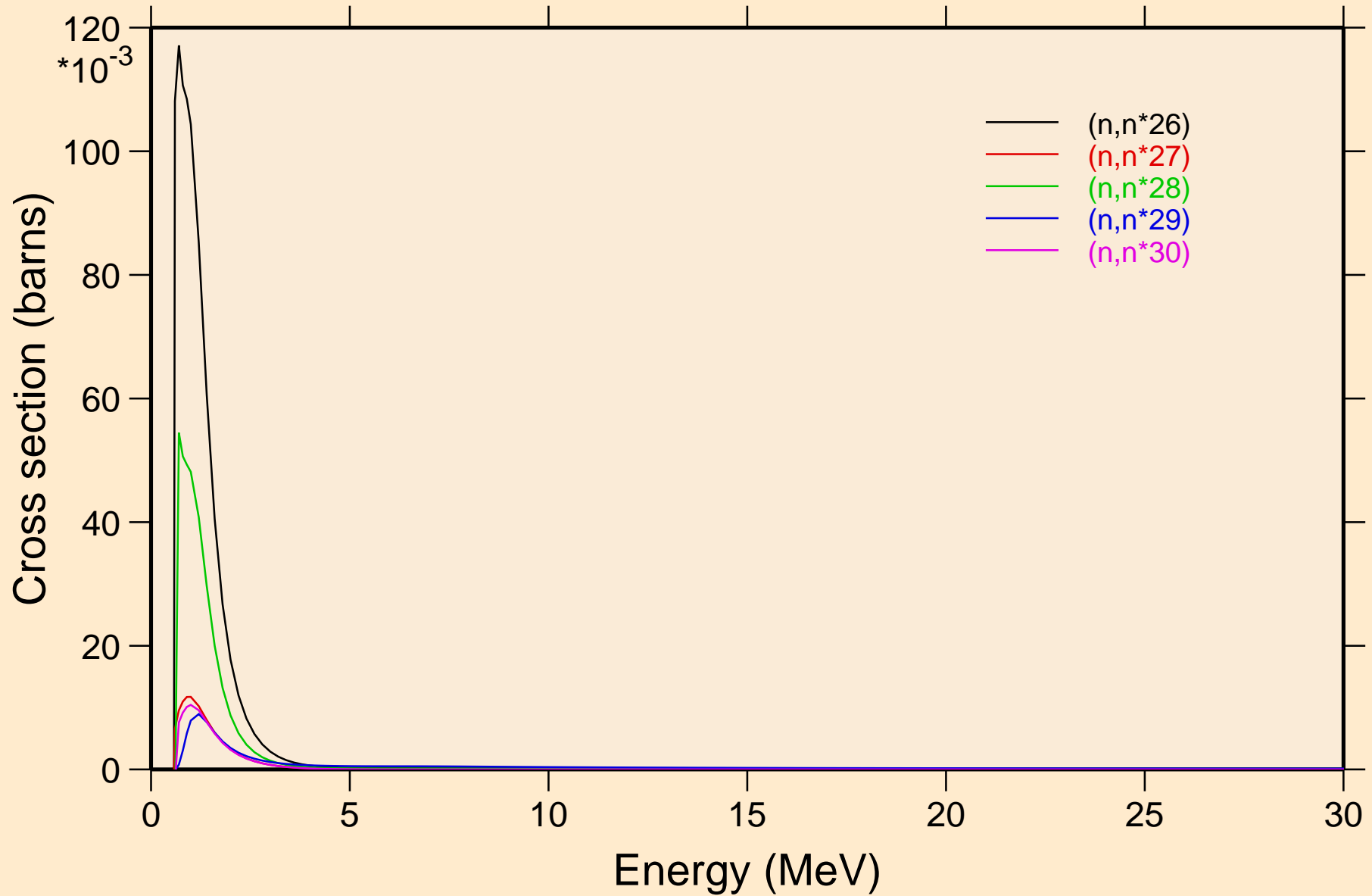
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels

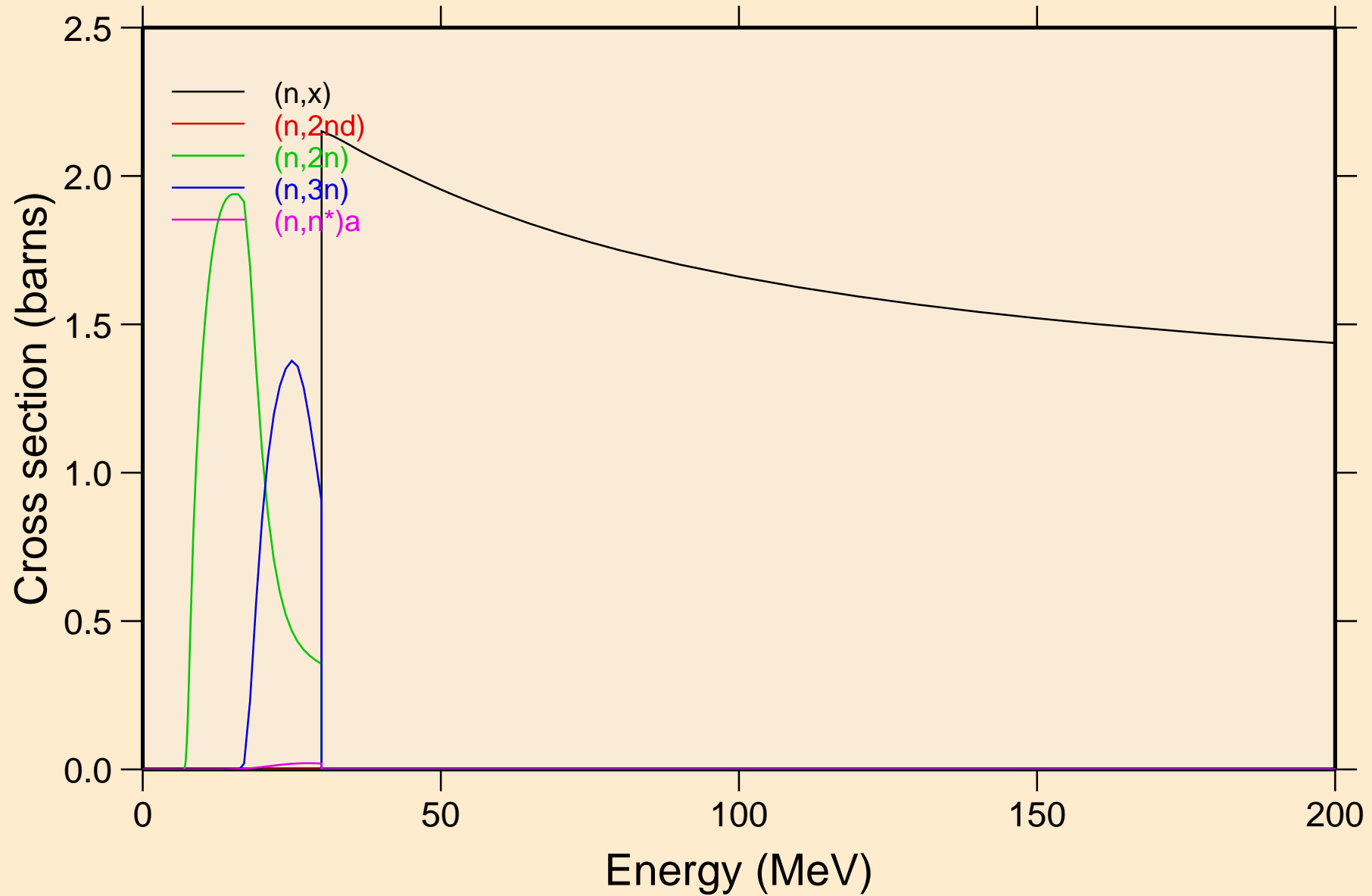


ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



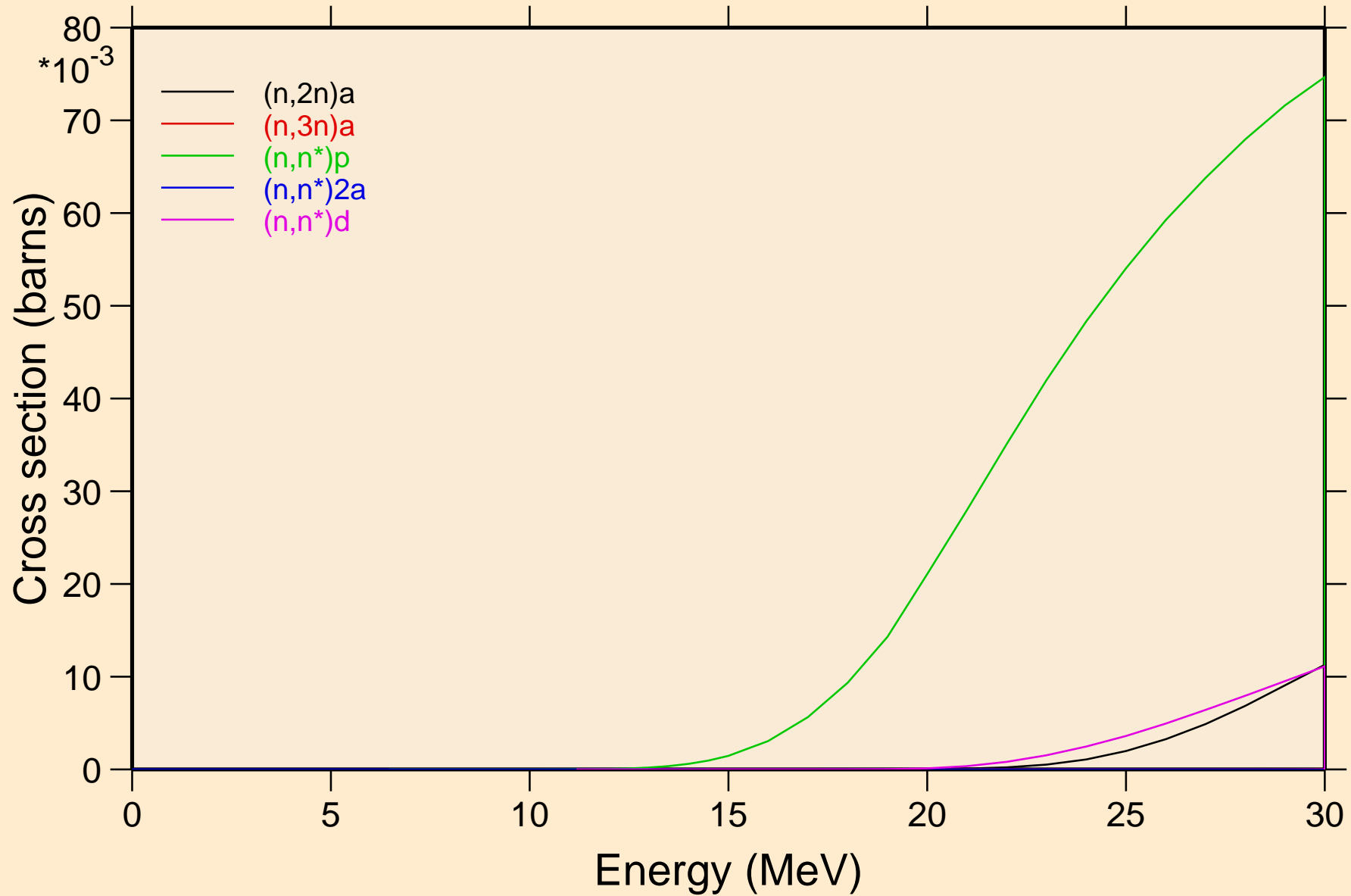
# ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Threshold reactions

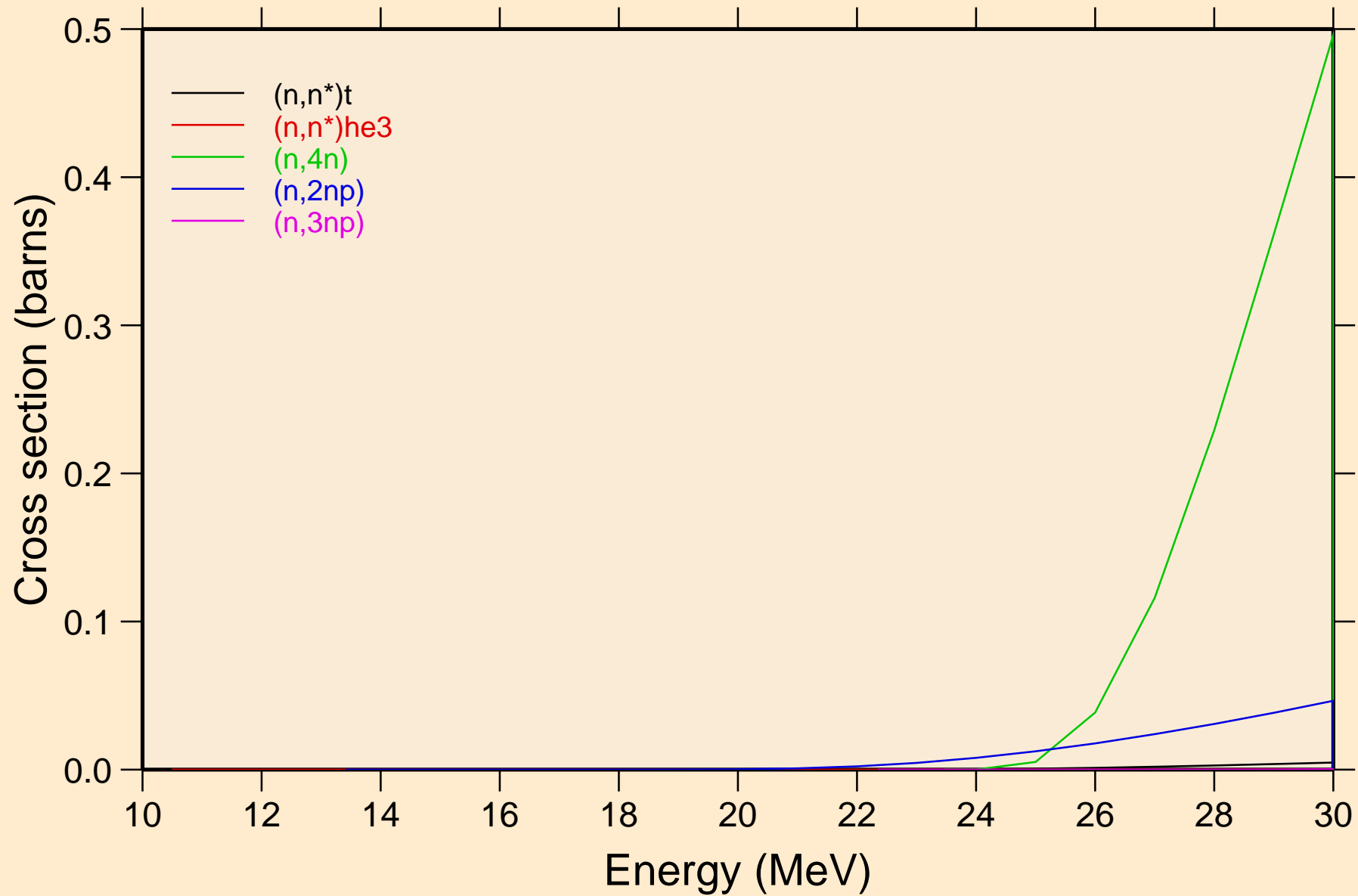


# ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

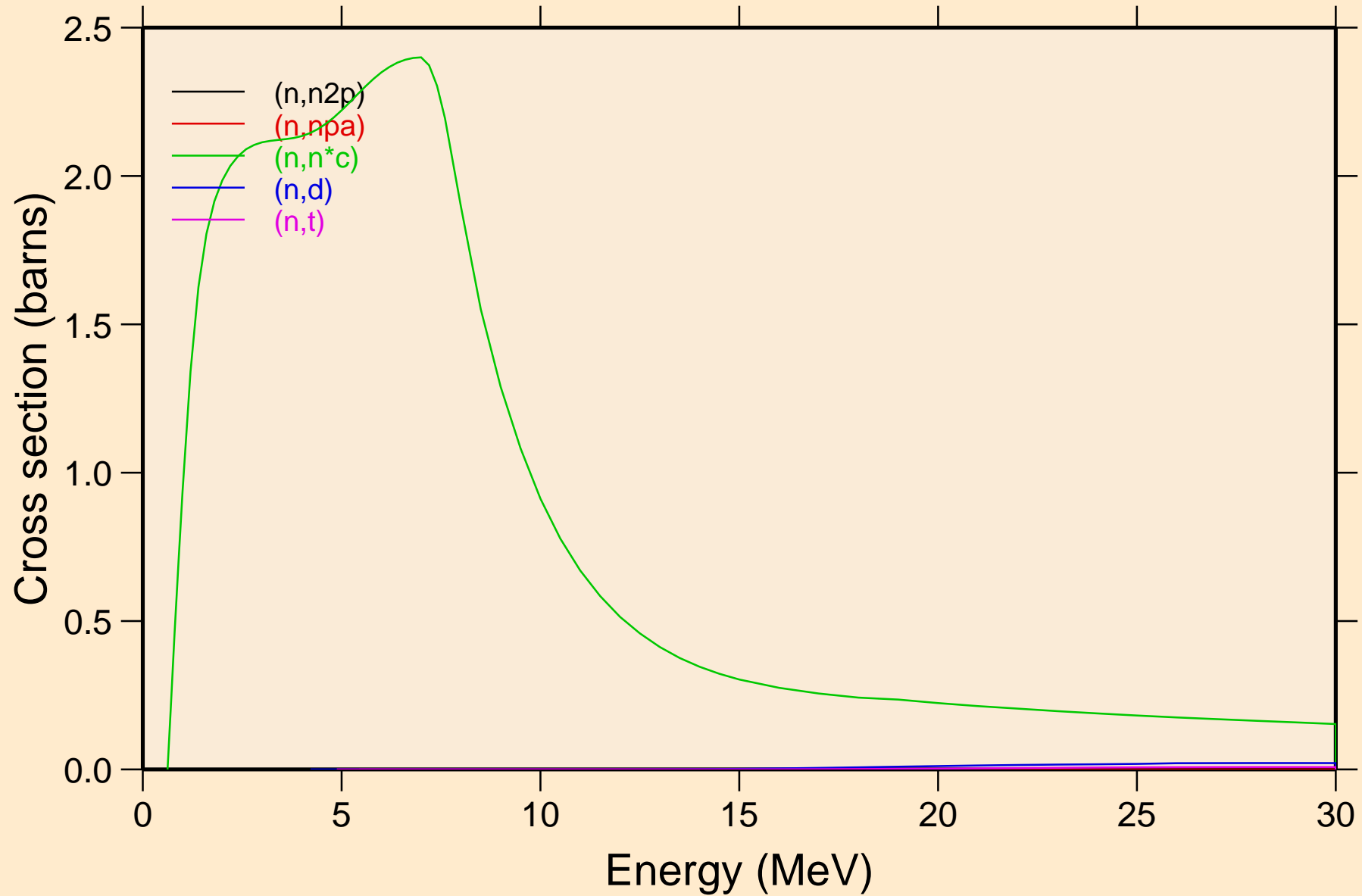
## Threshold reactions



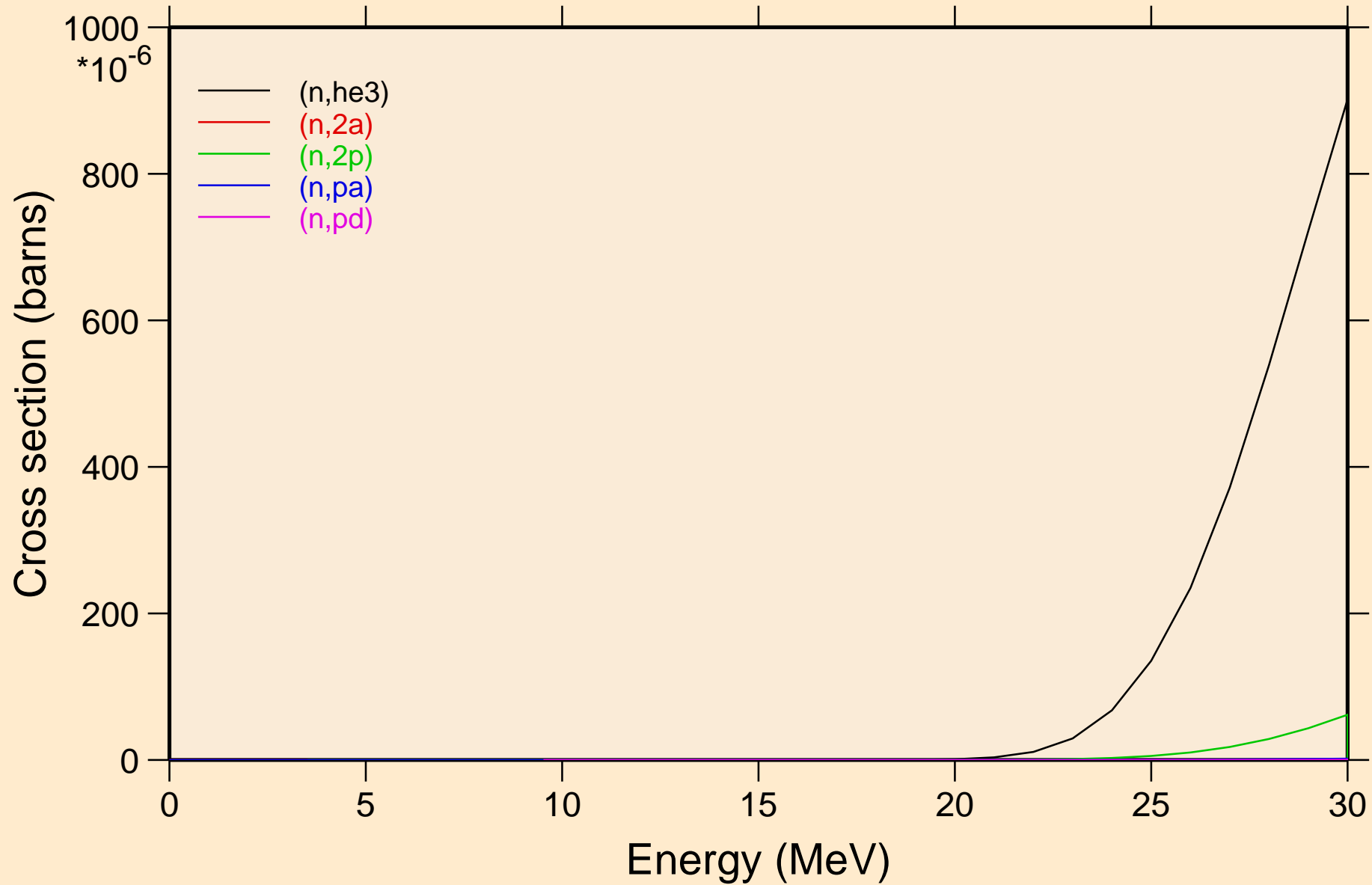
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



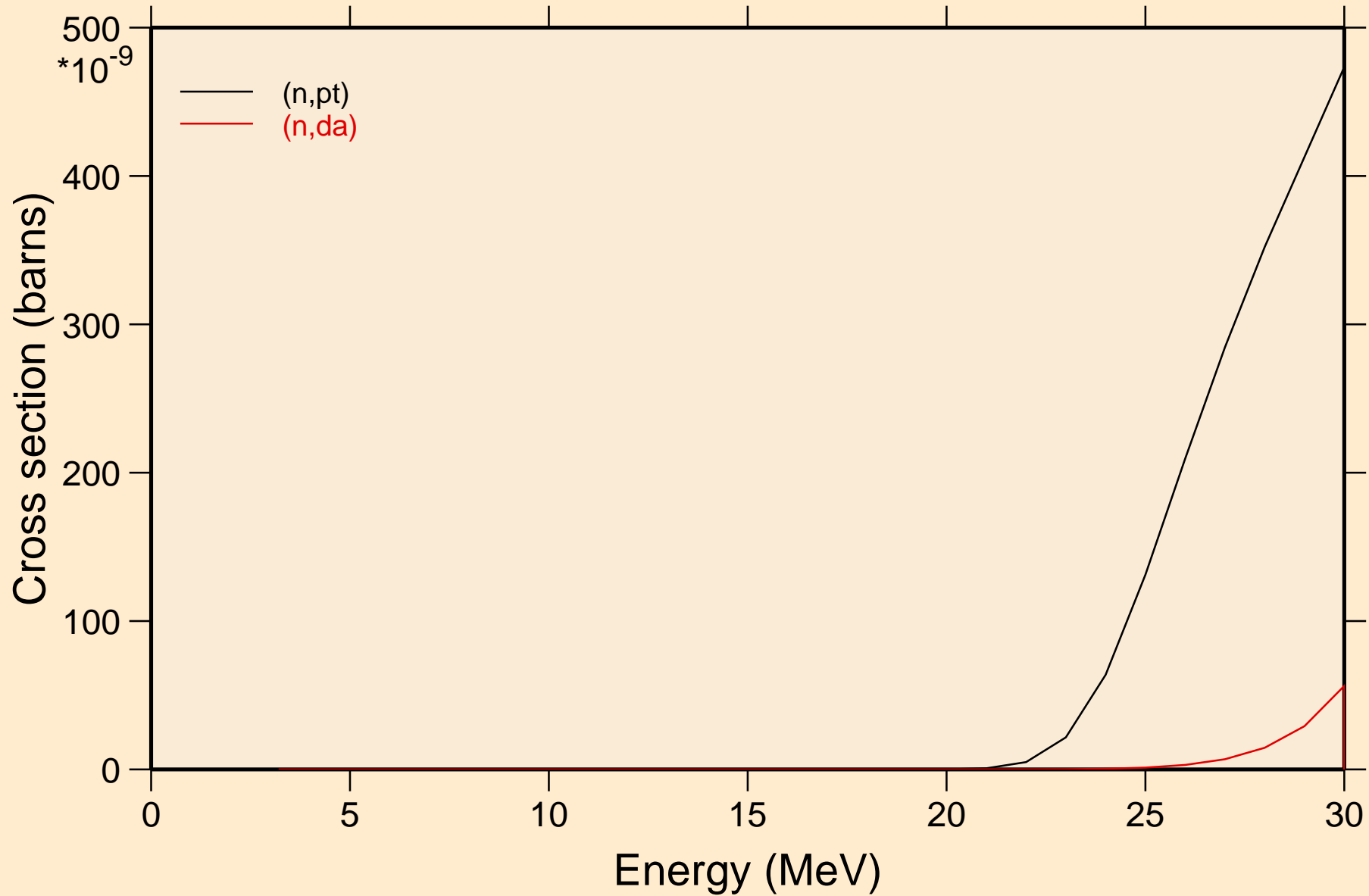
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



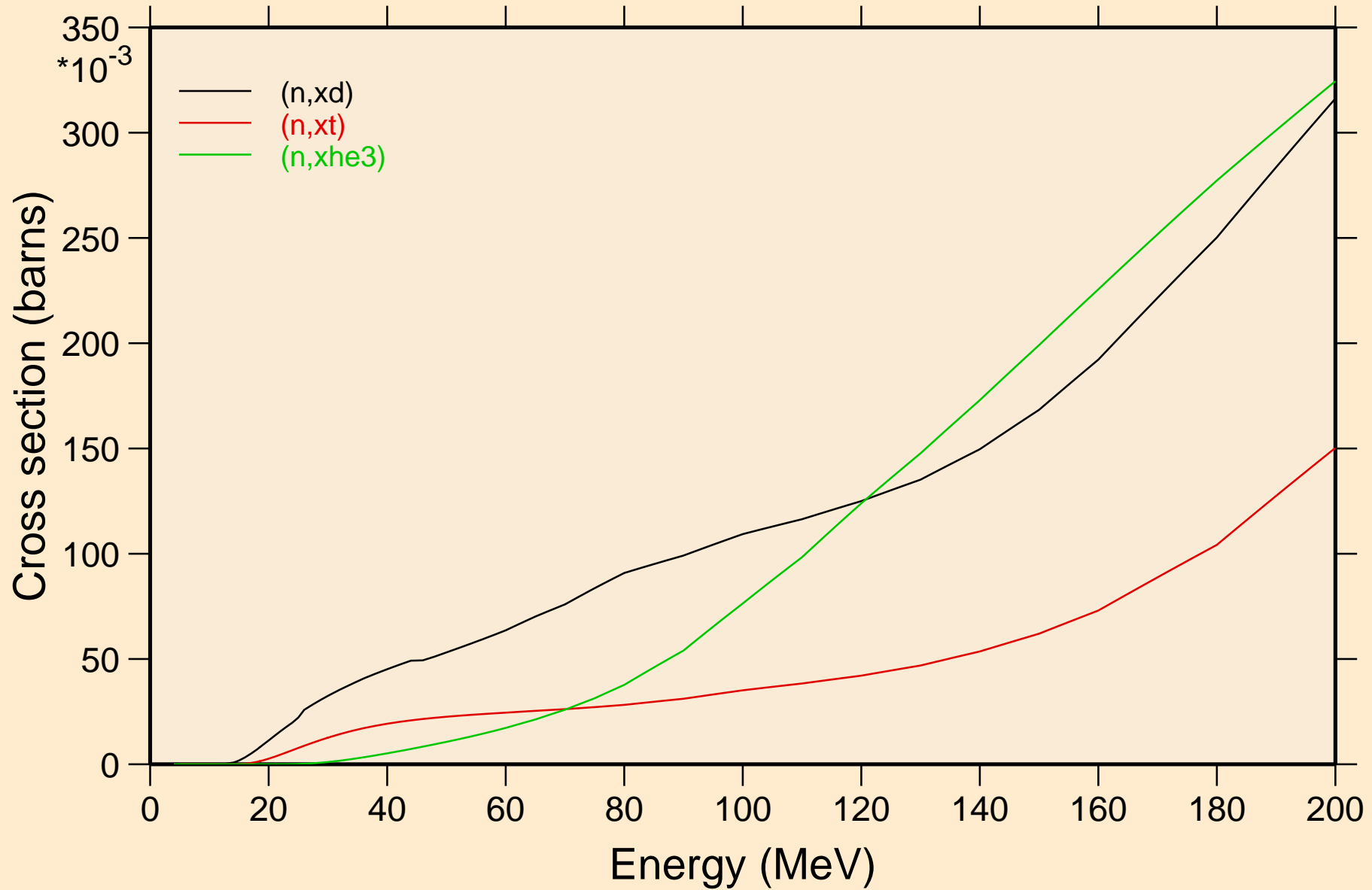
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



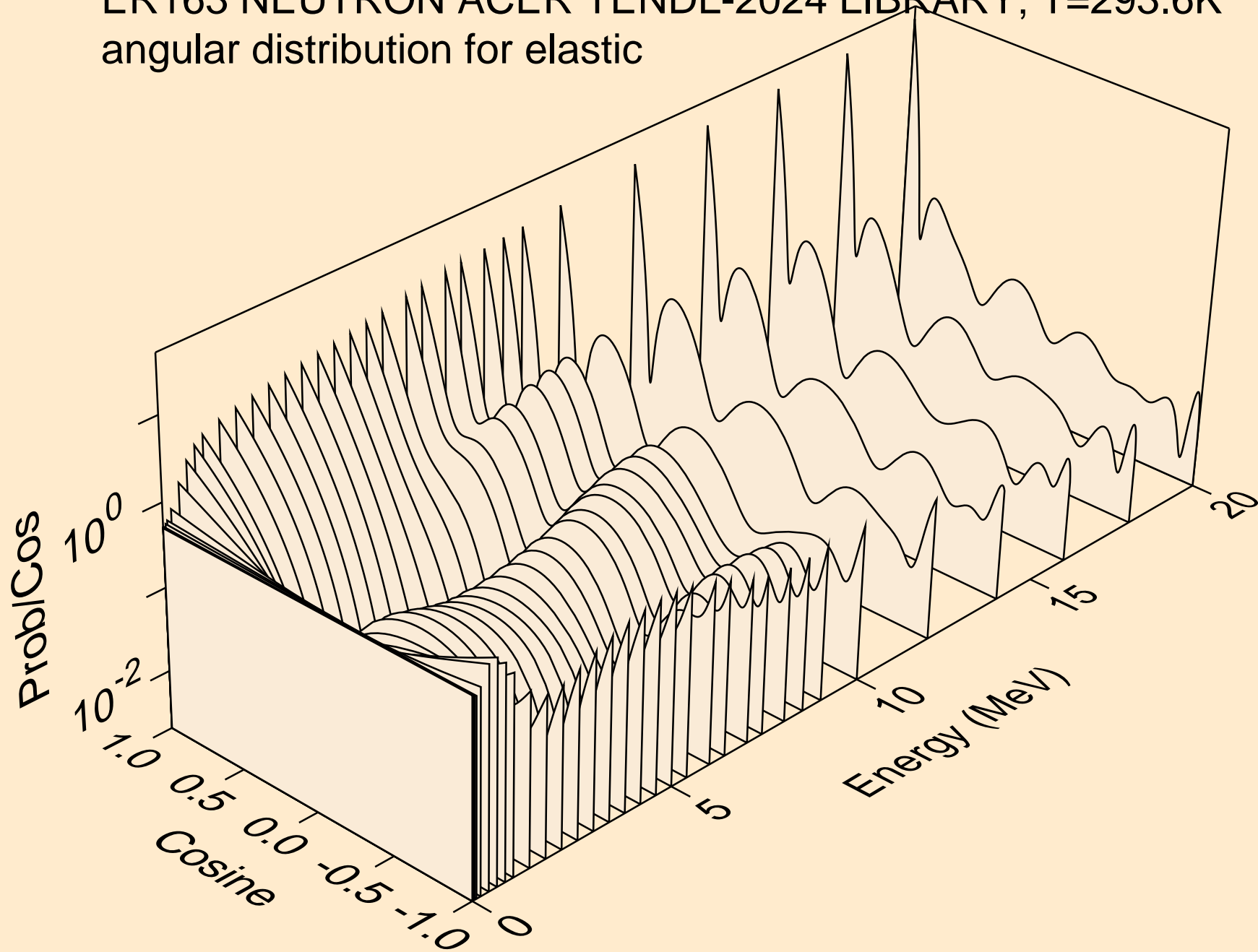
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



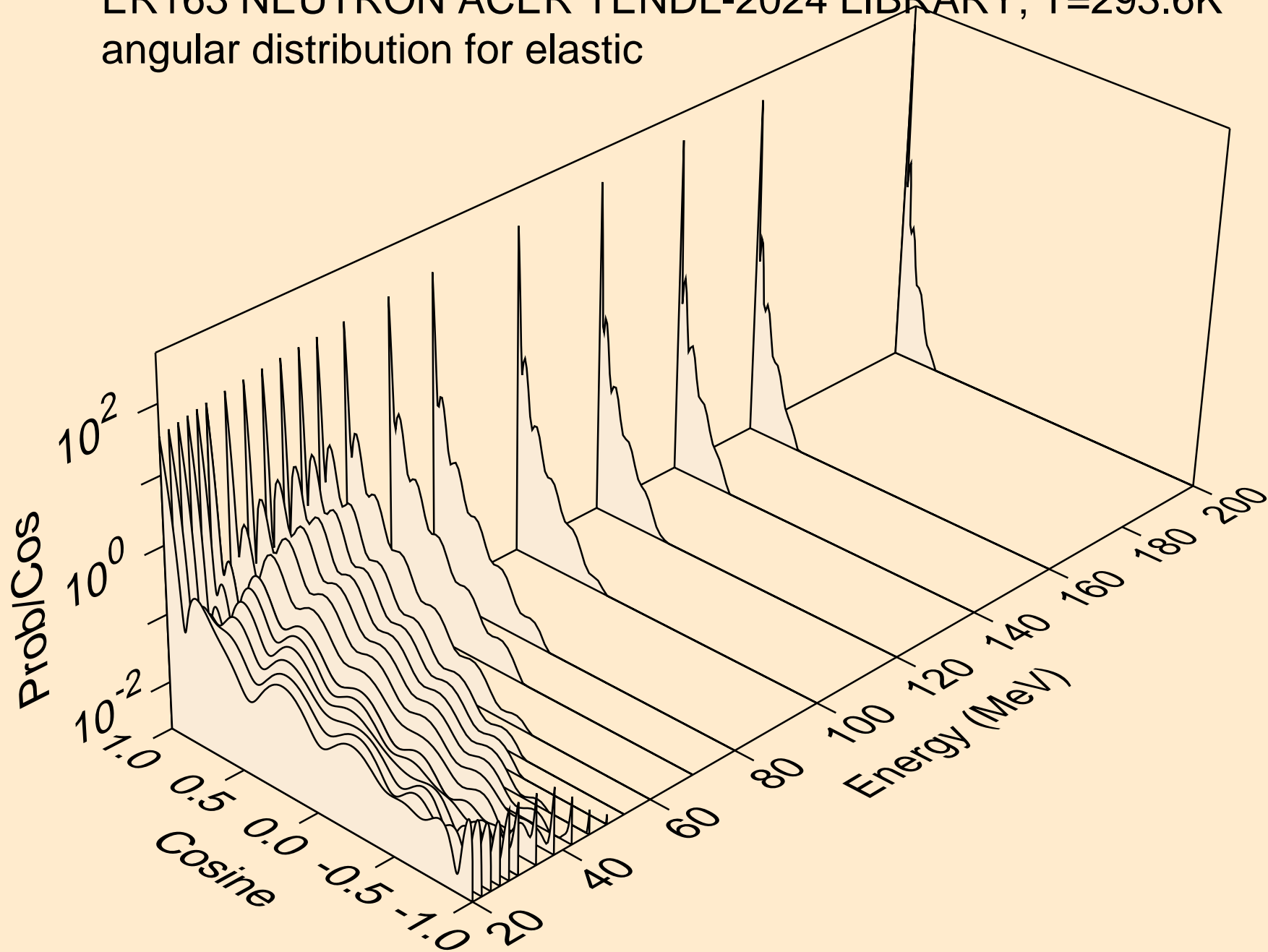
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



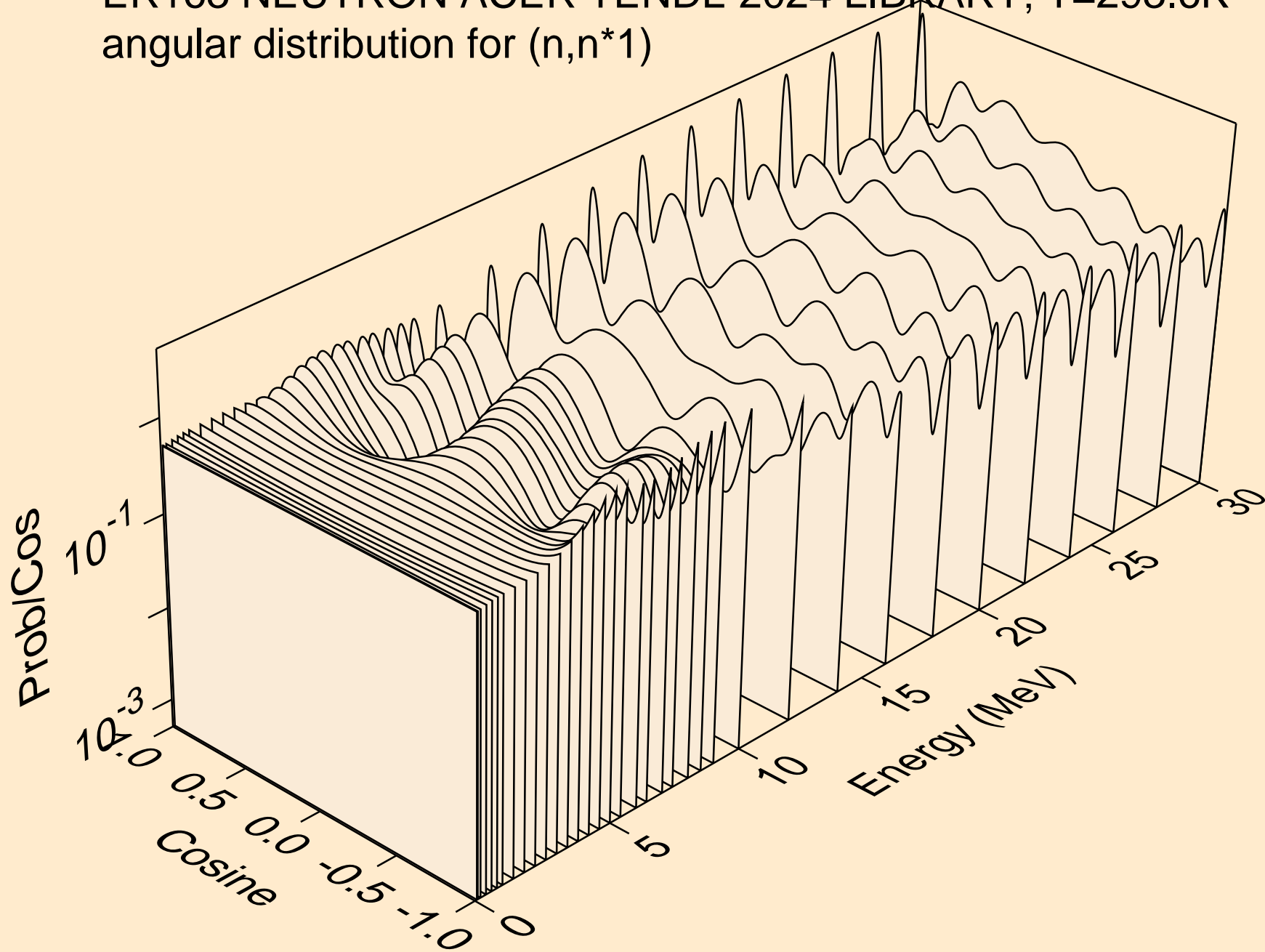
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



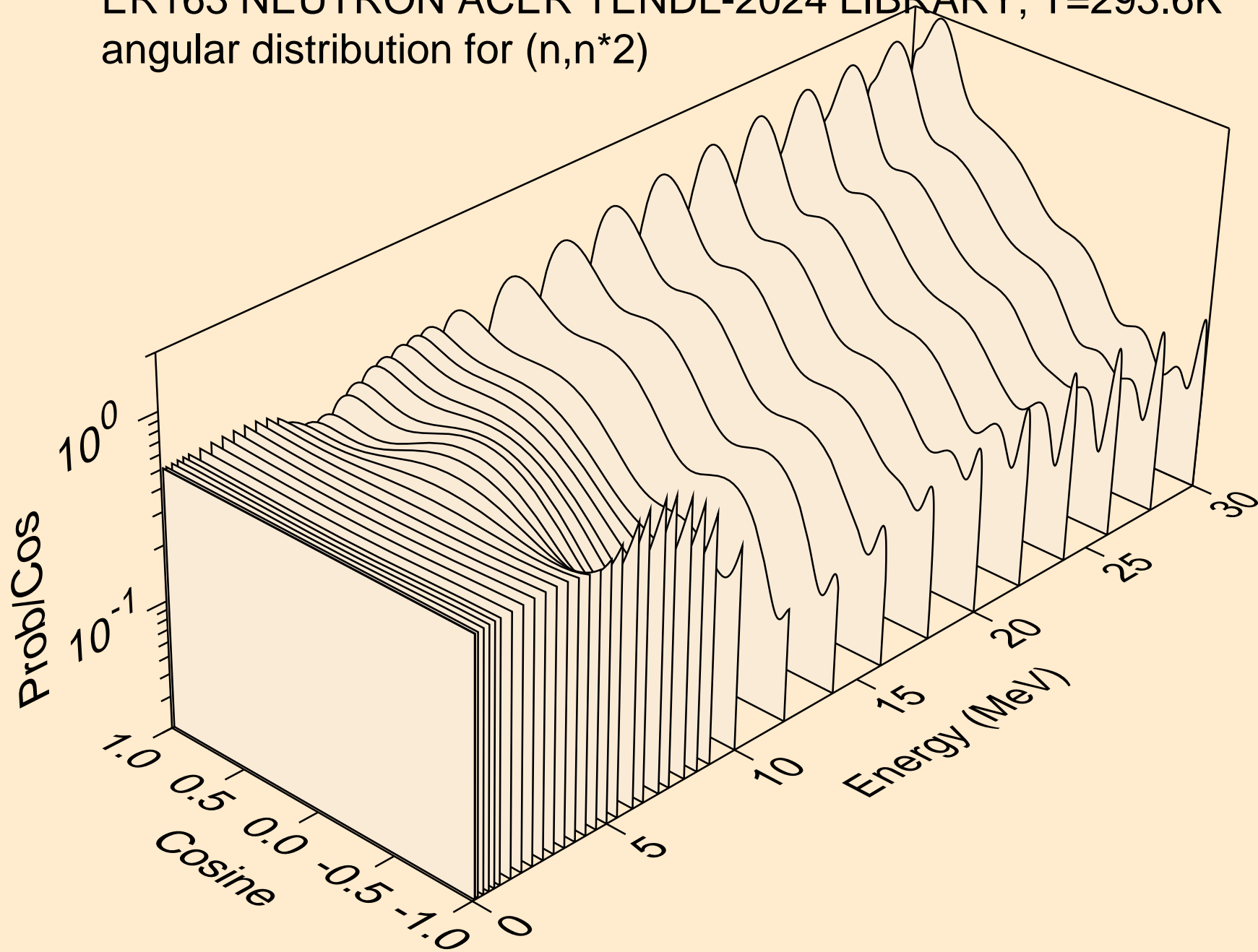
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



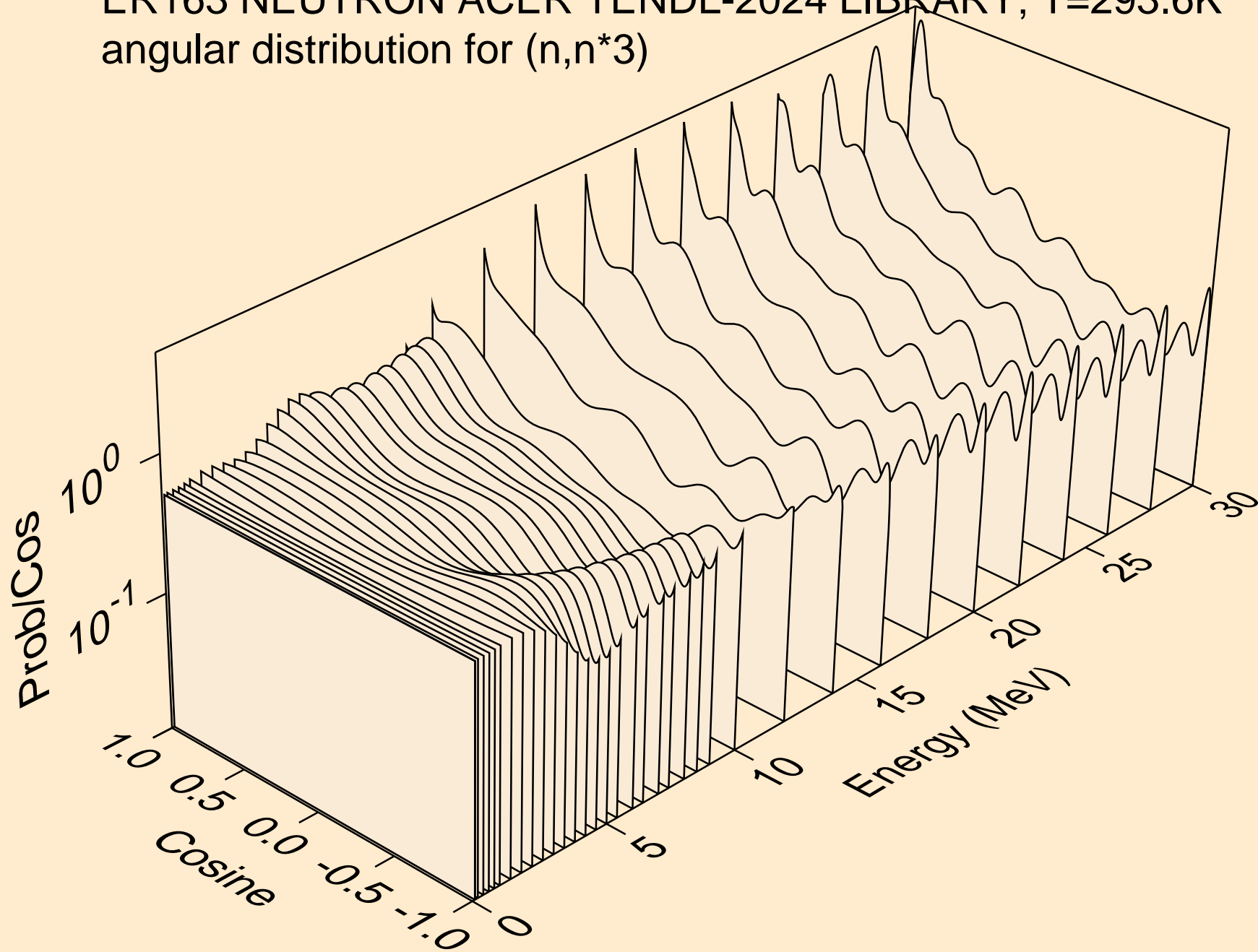
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)



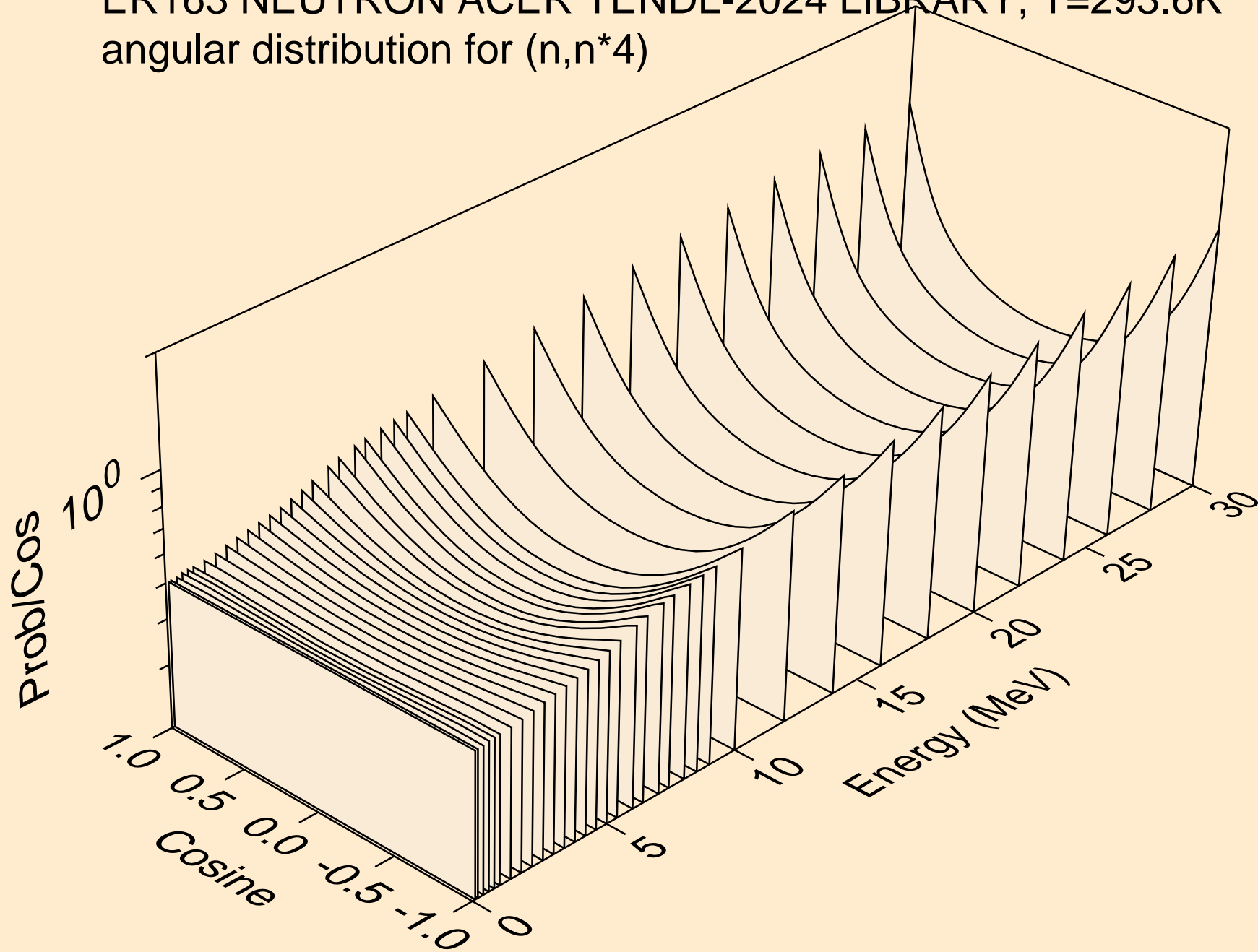
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angular distribution for (n,n\*2)



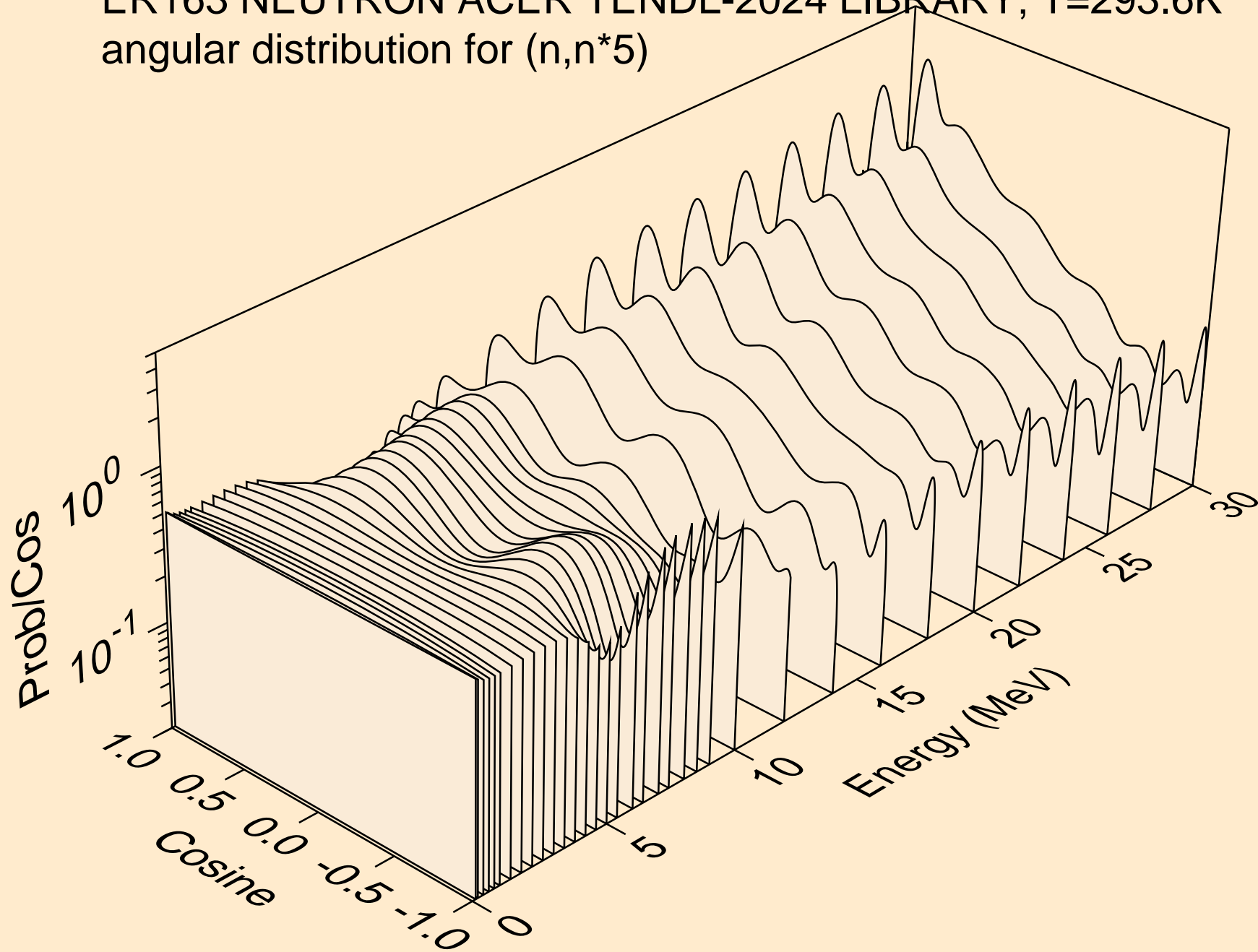
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)



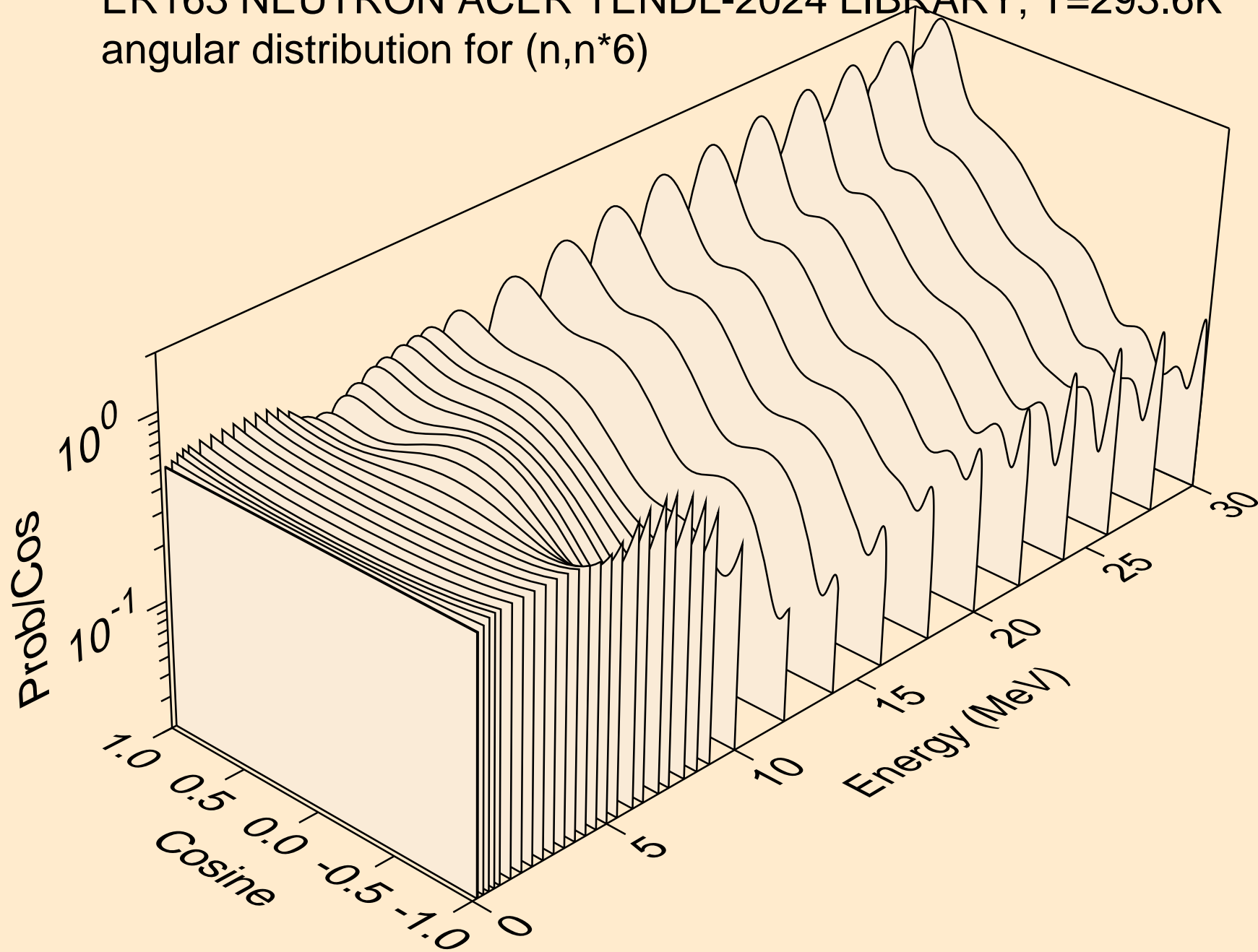
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)



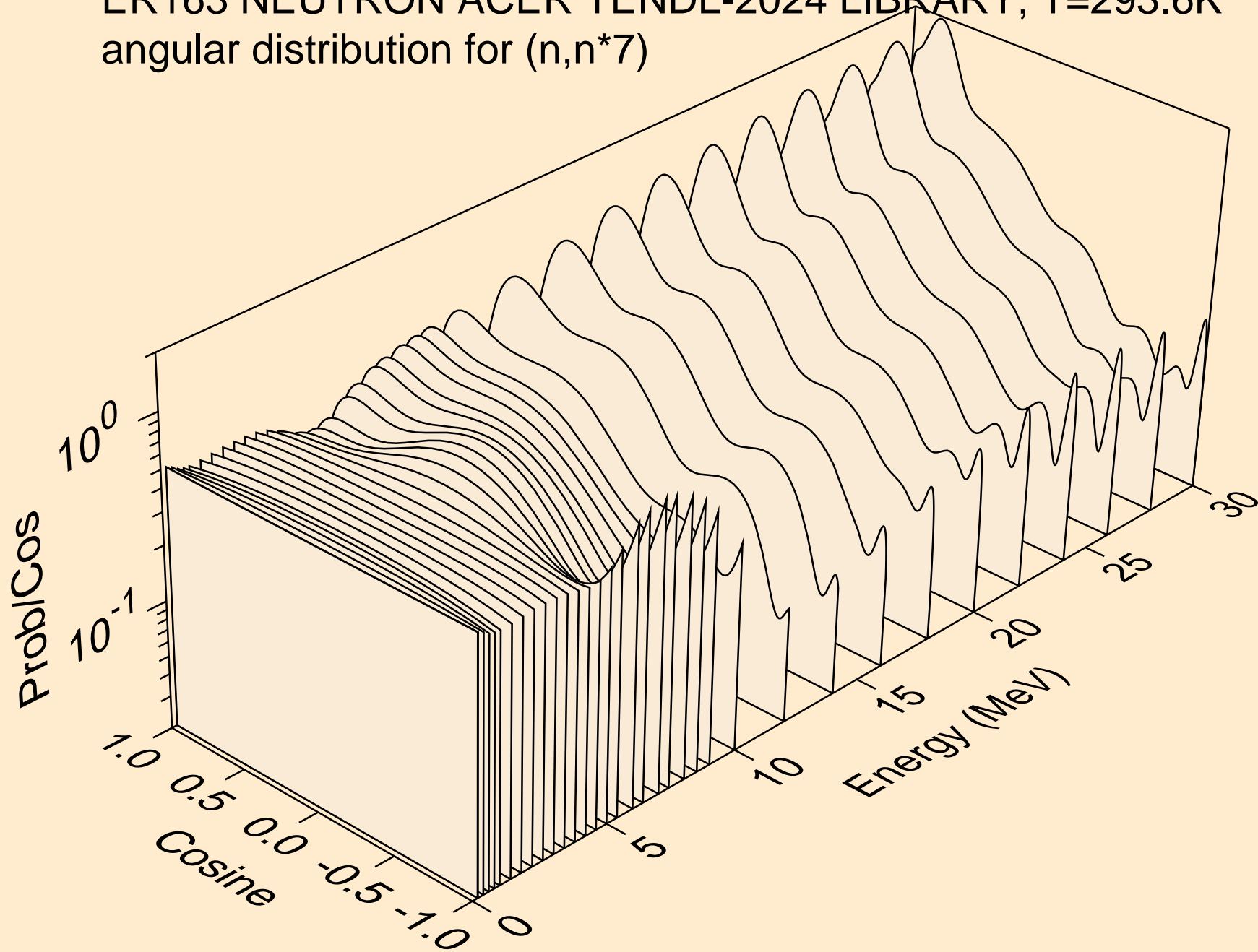
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angular distribution for (n,n\*5)



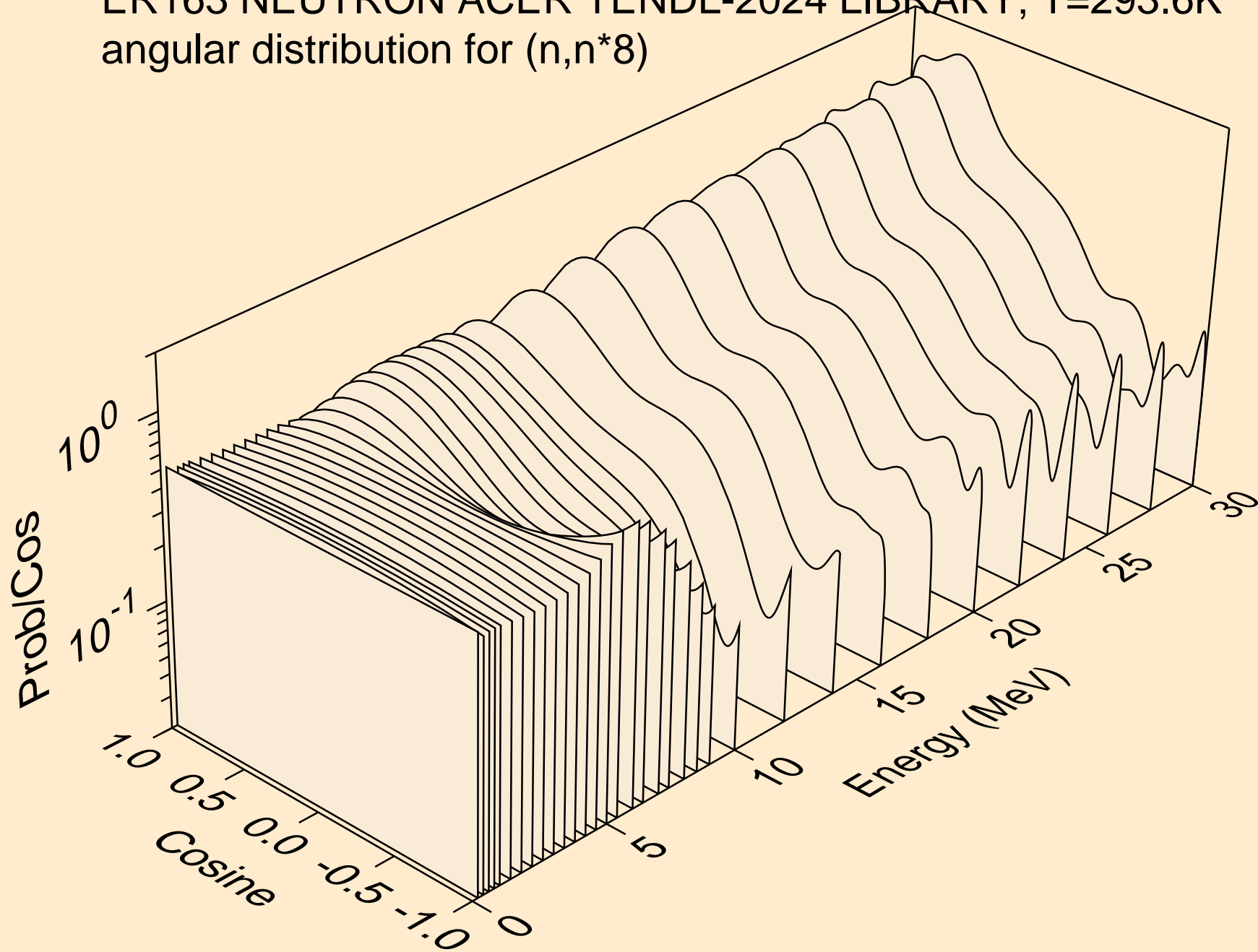
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*6)



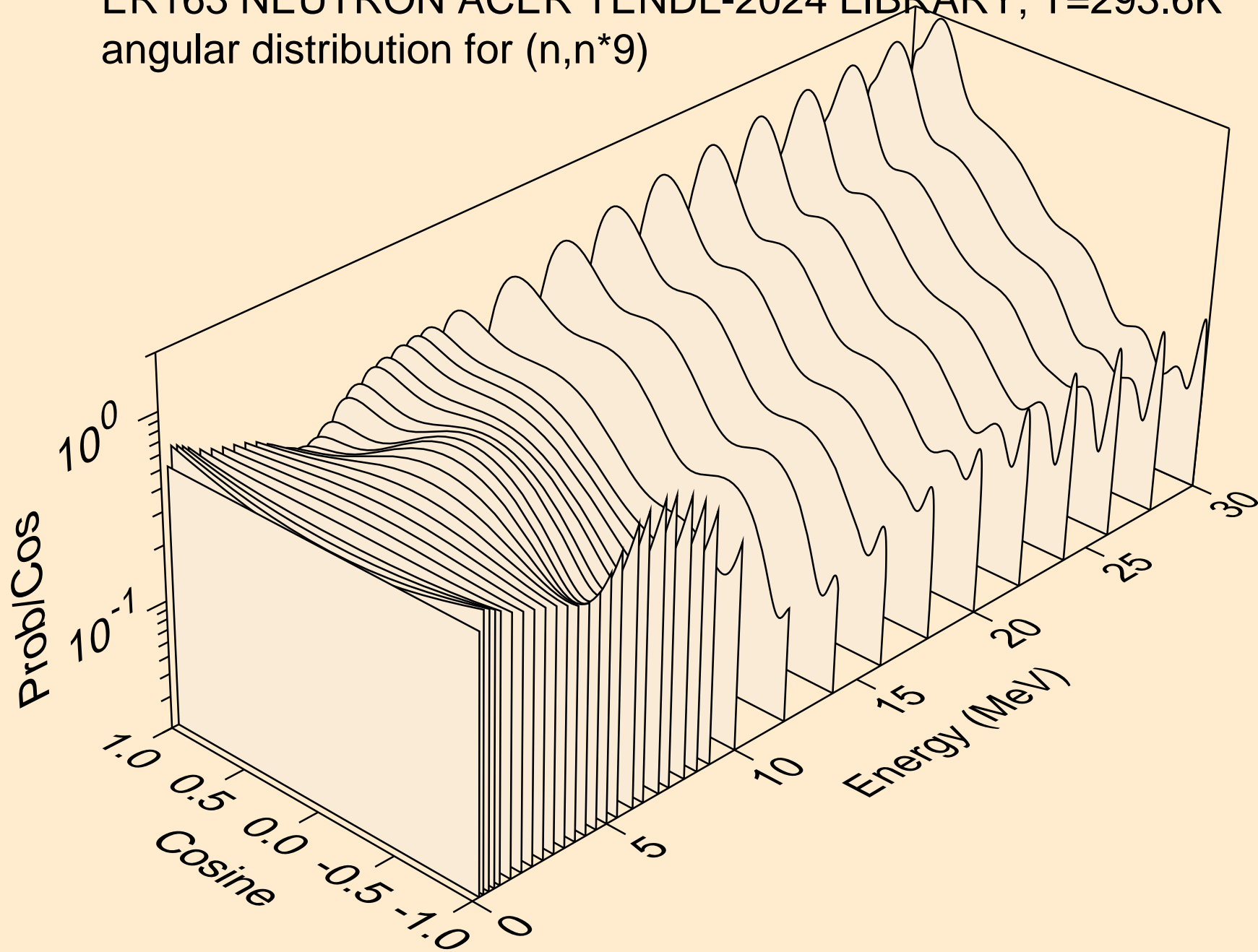
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angular distribution for (n,n\*7)



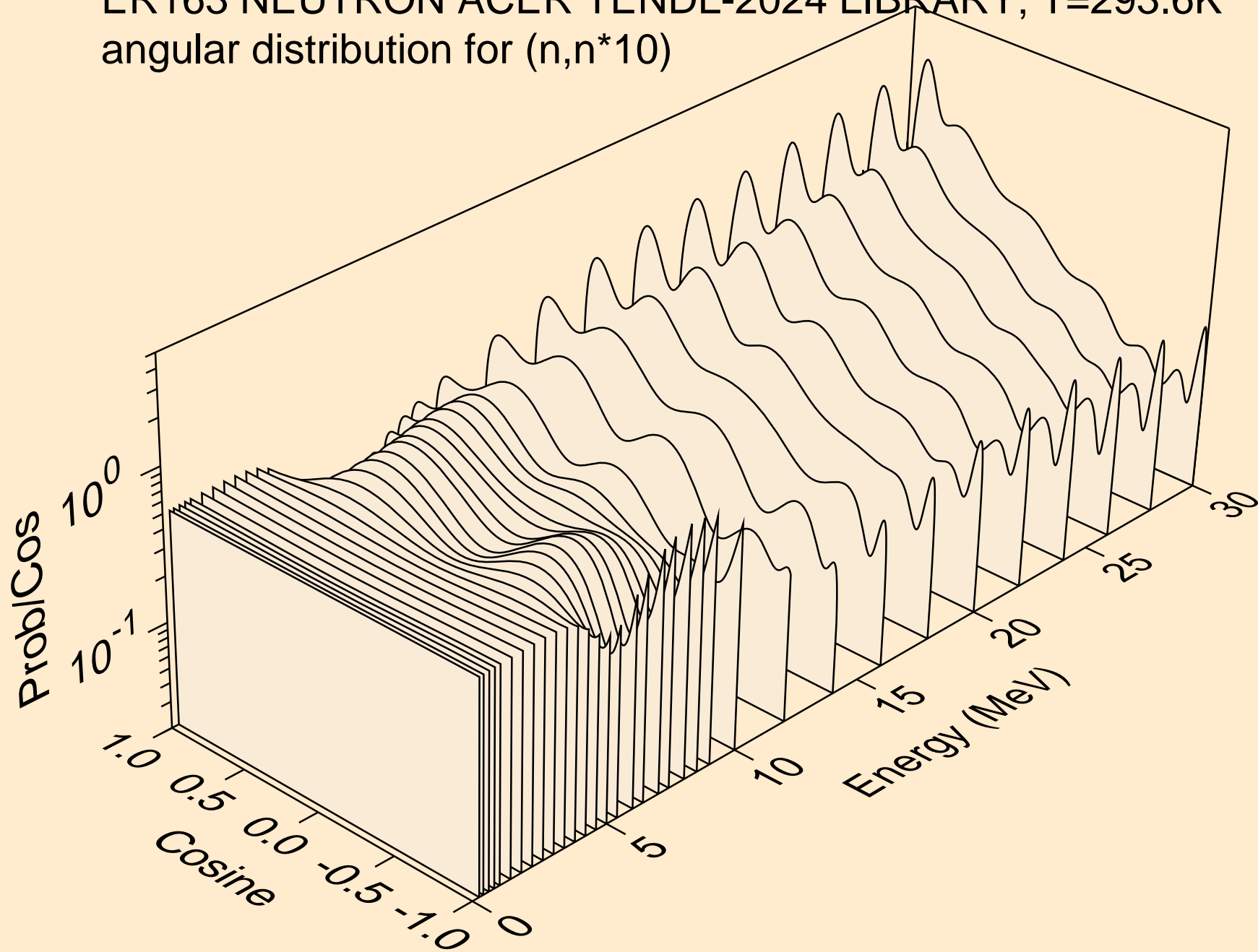
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angular distribution for (n,n\*8)



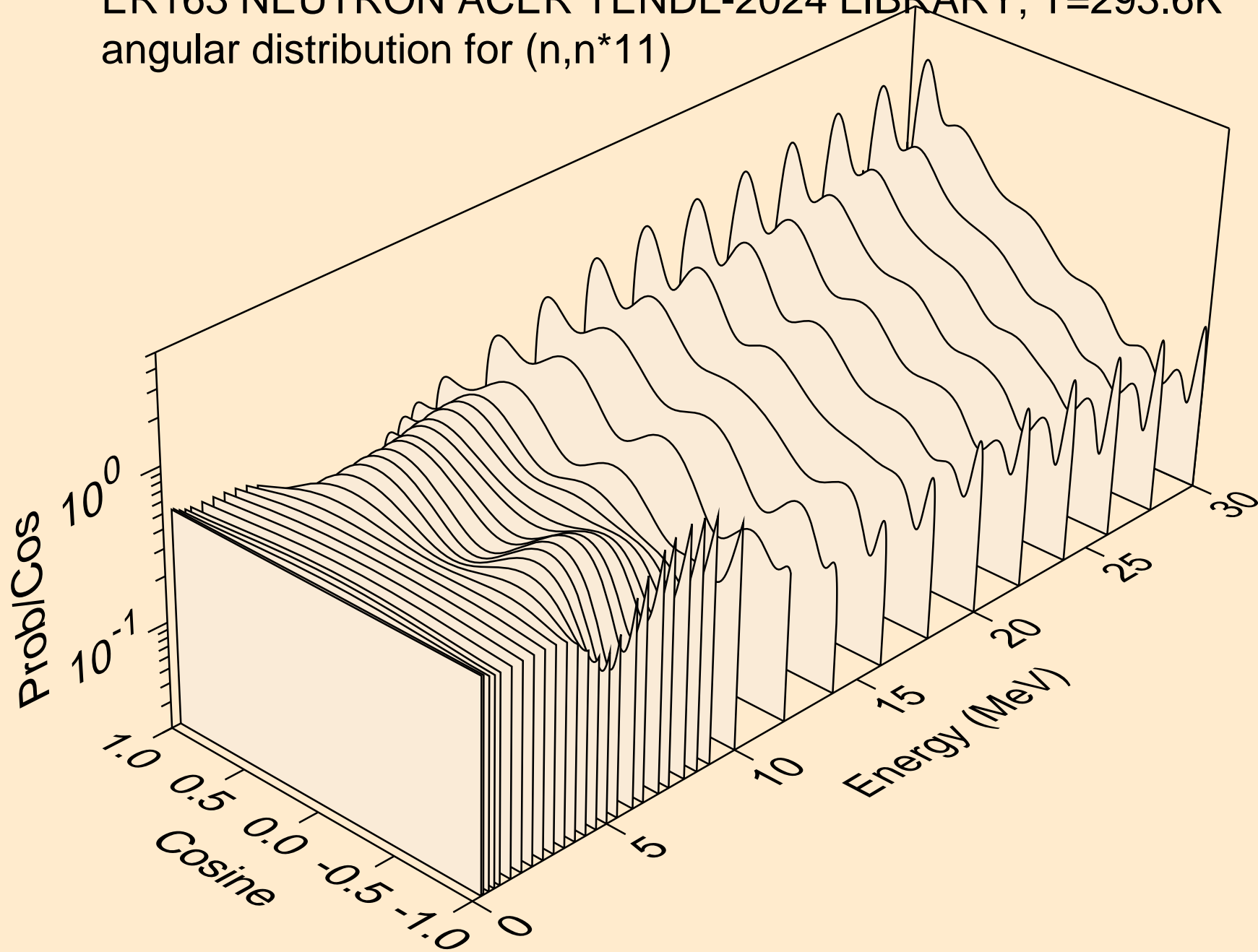
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angular distribution for (n,n\*9)



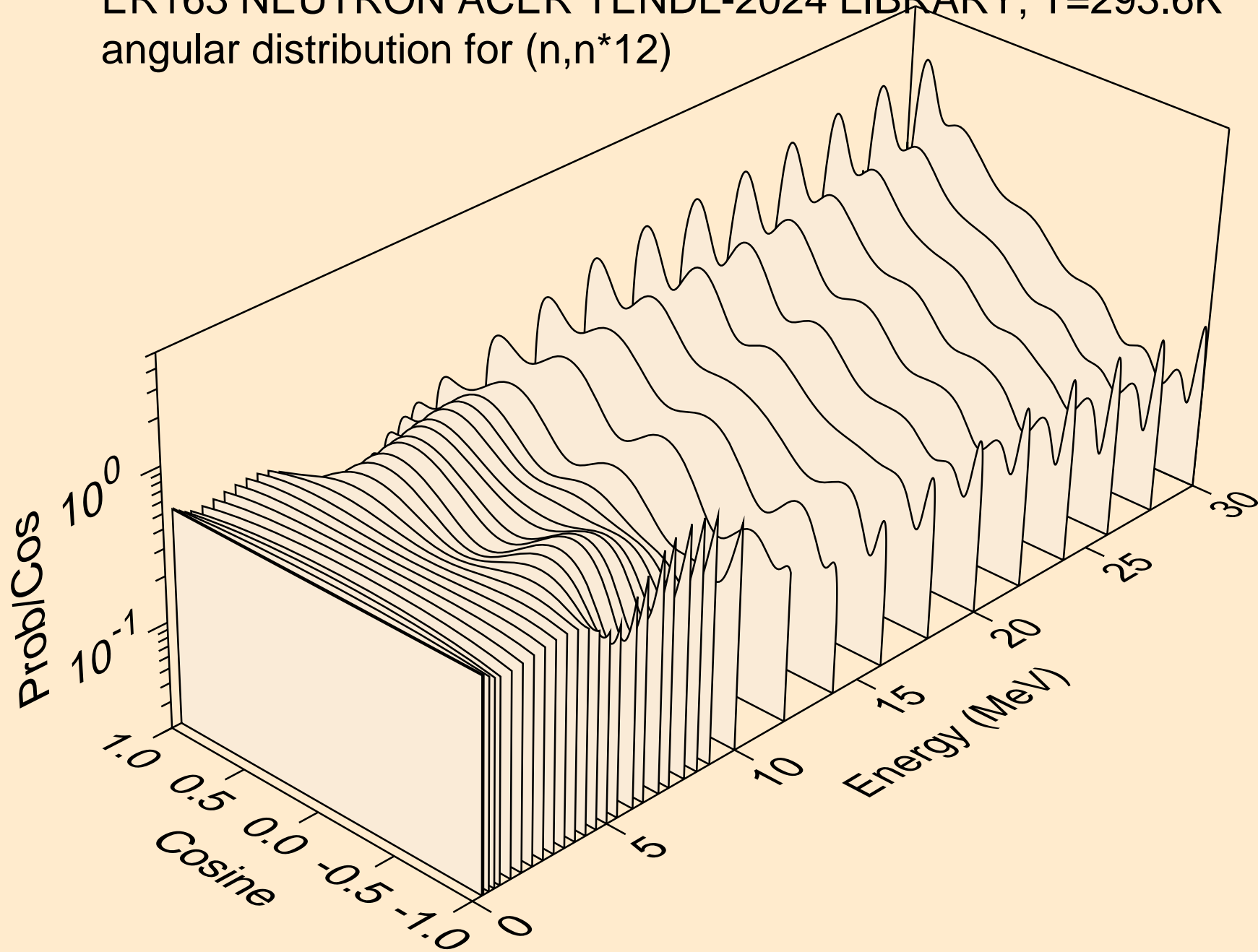
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angular distribution for (n,n\*10)



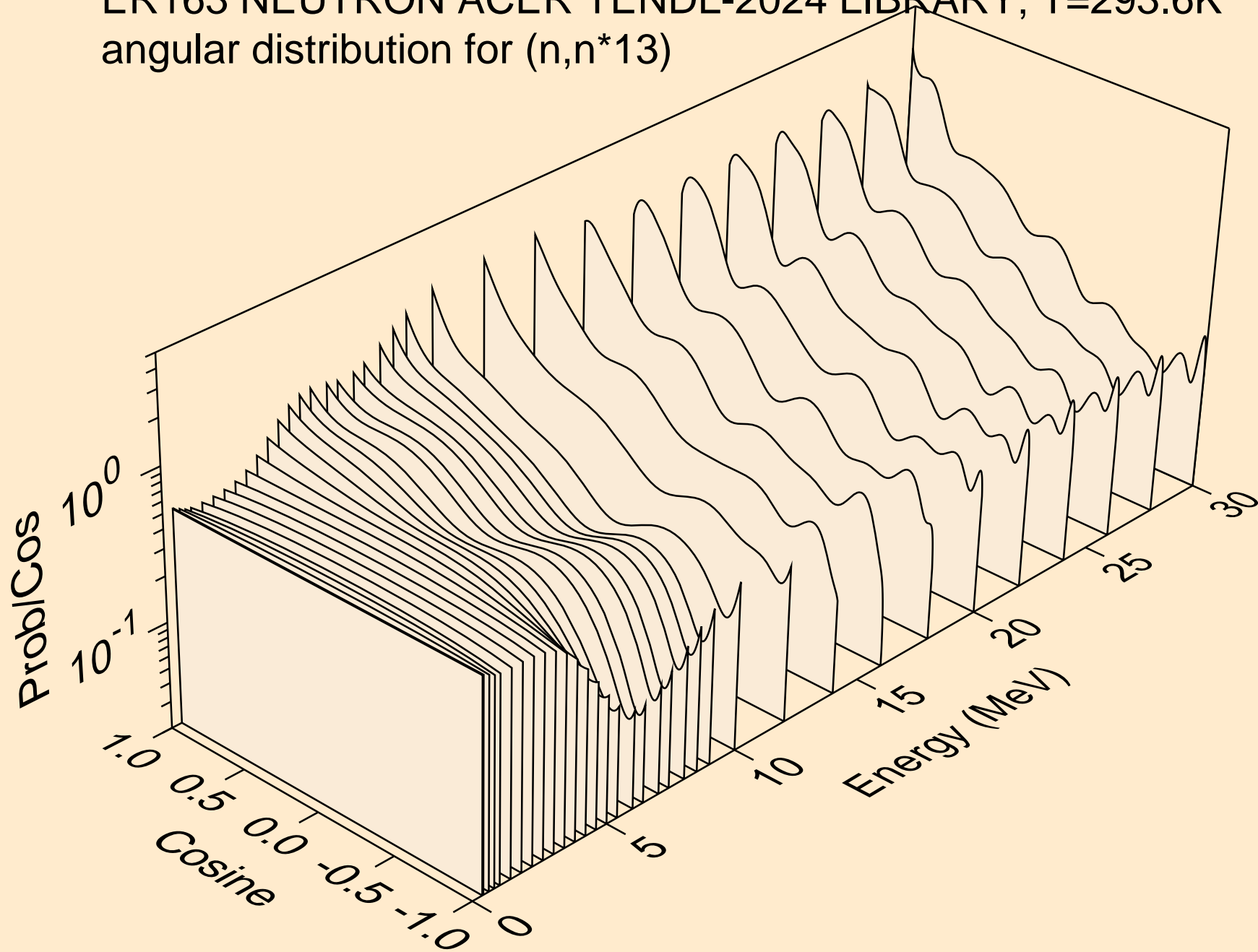
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*11)



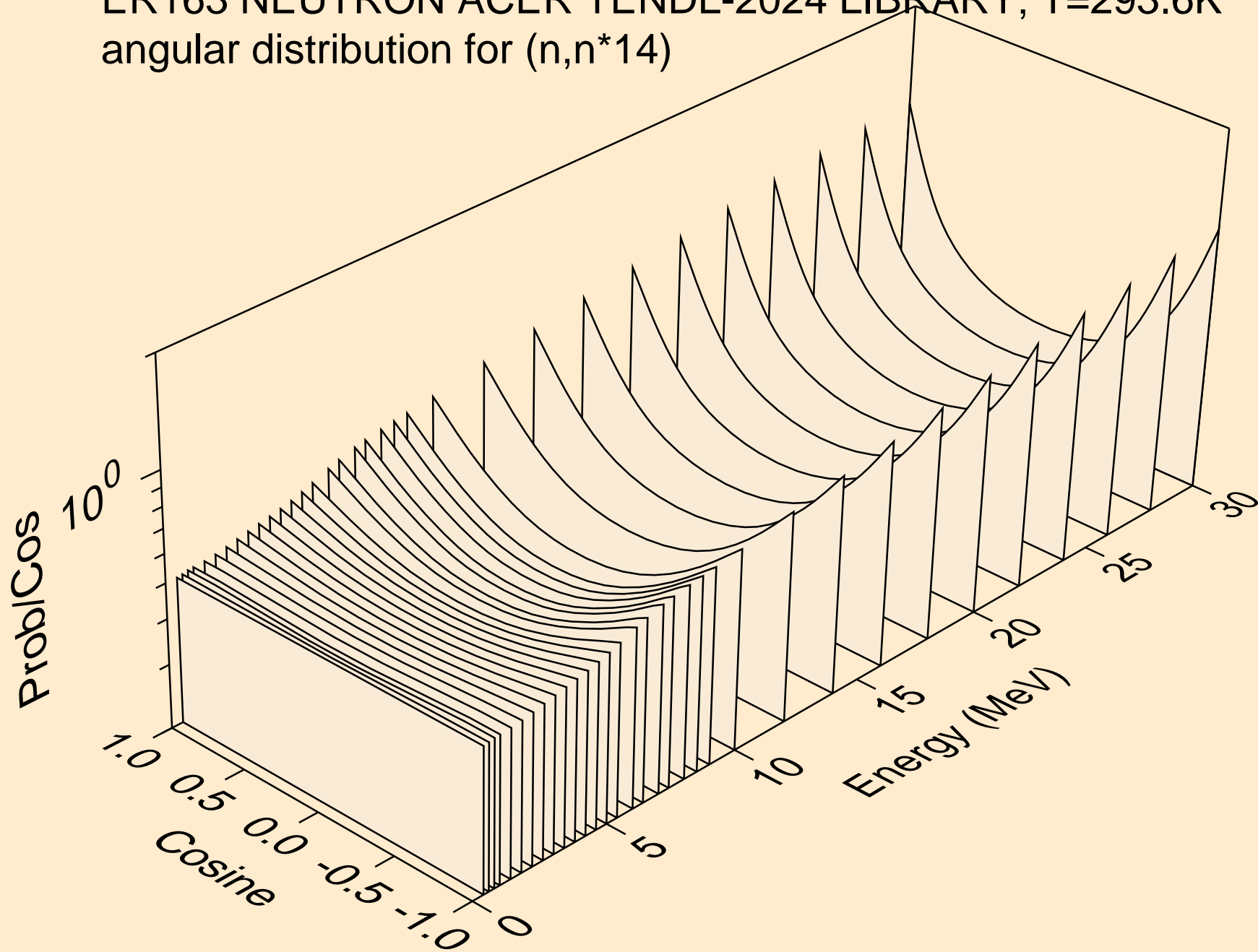
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angular distribution for (n,n\*12)



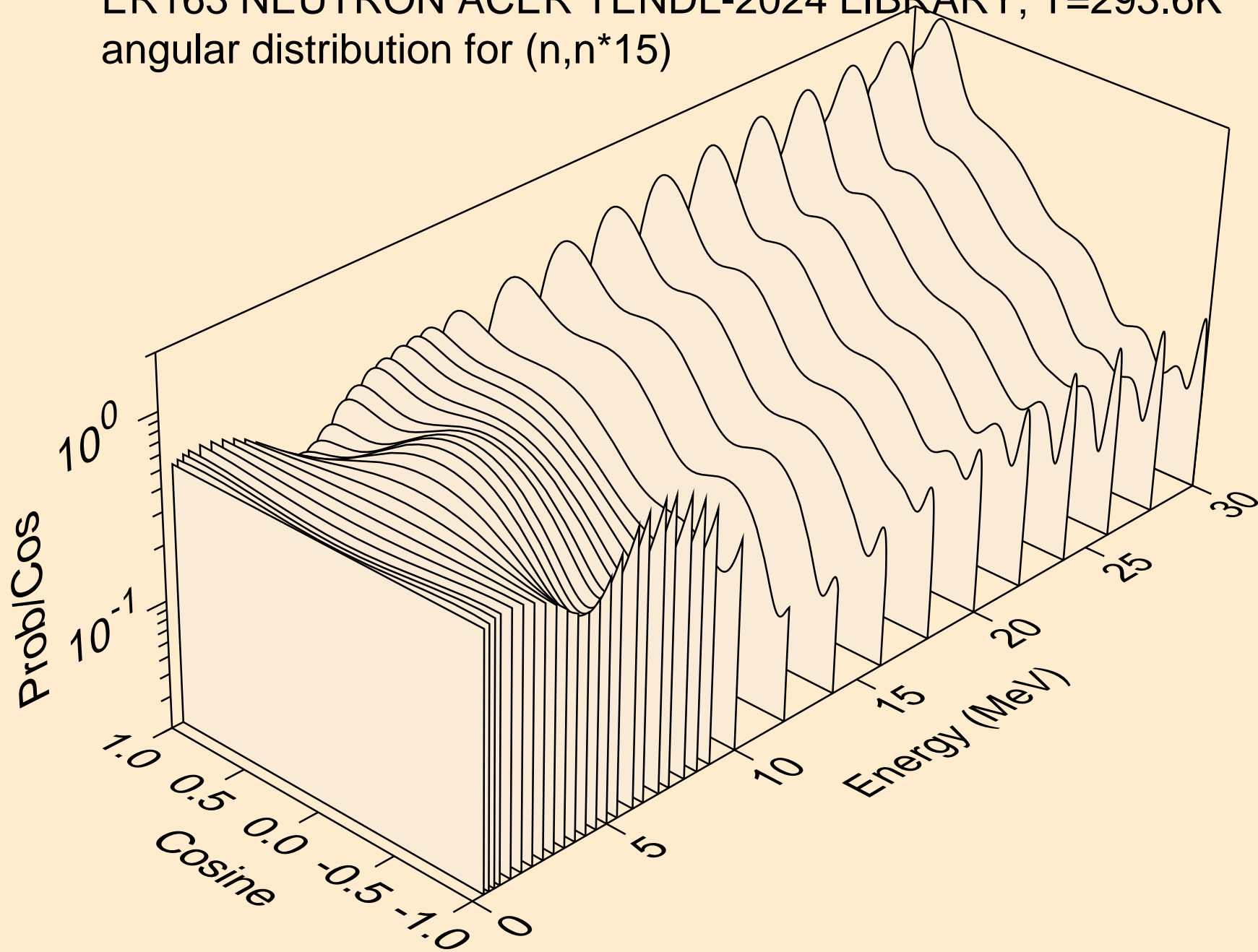
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angular distribution for (n,n\*13)



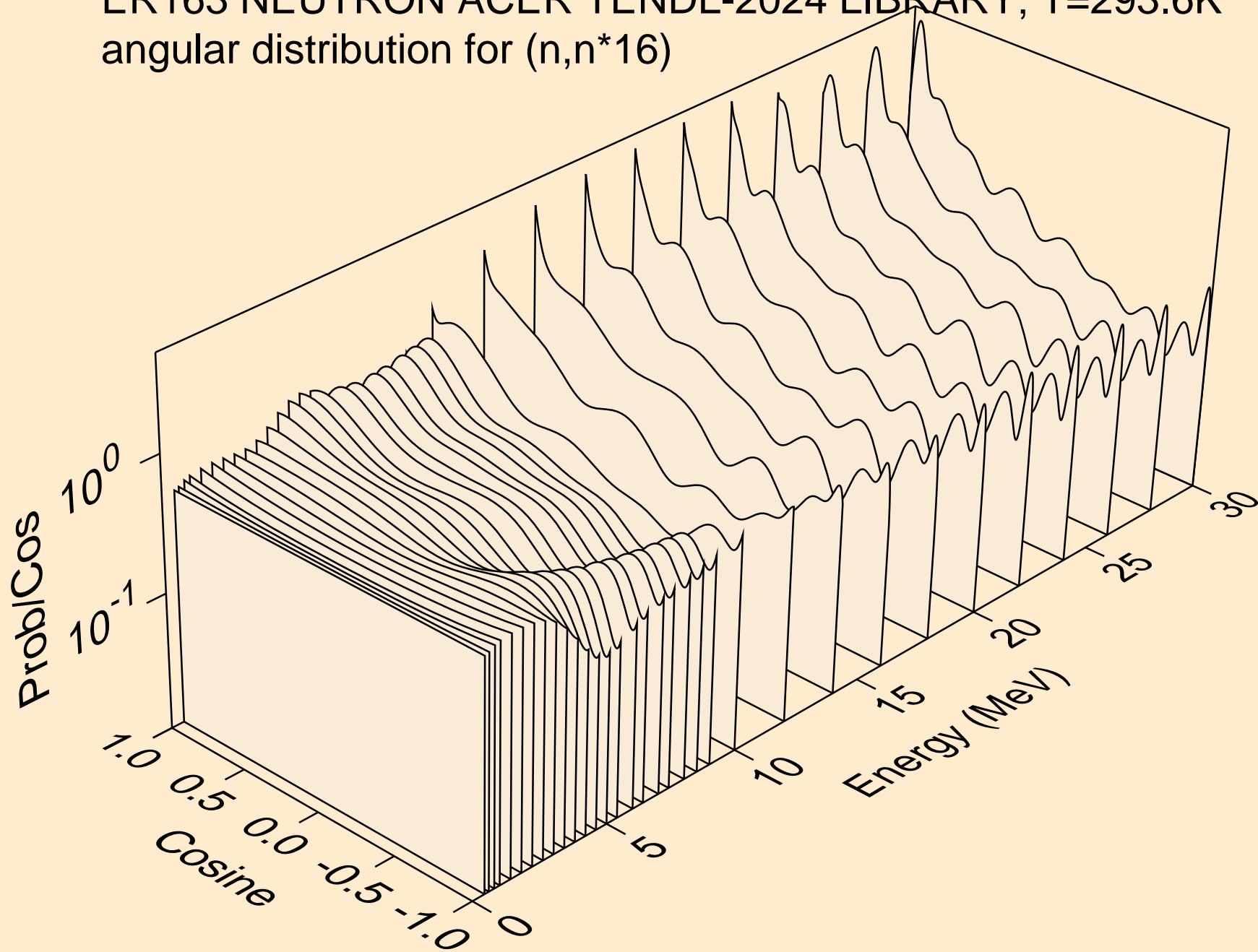
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angular distribution for (n,n\*14)



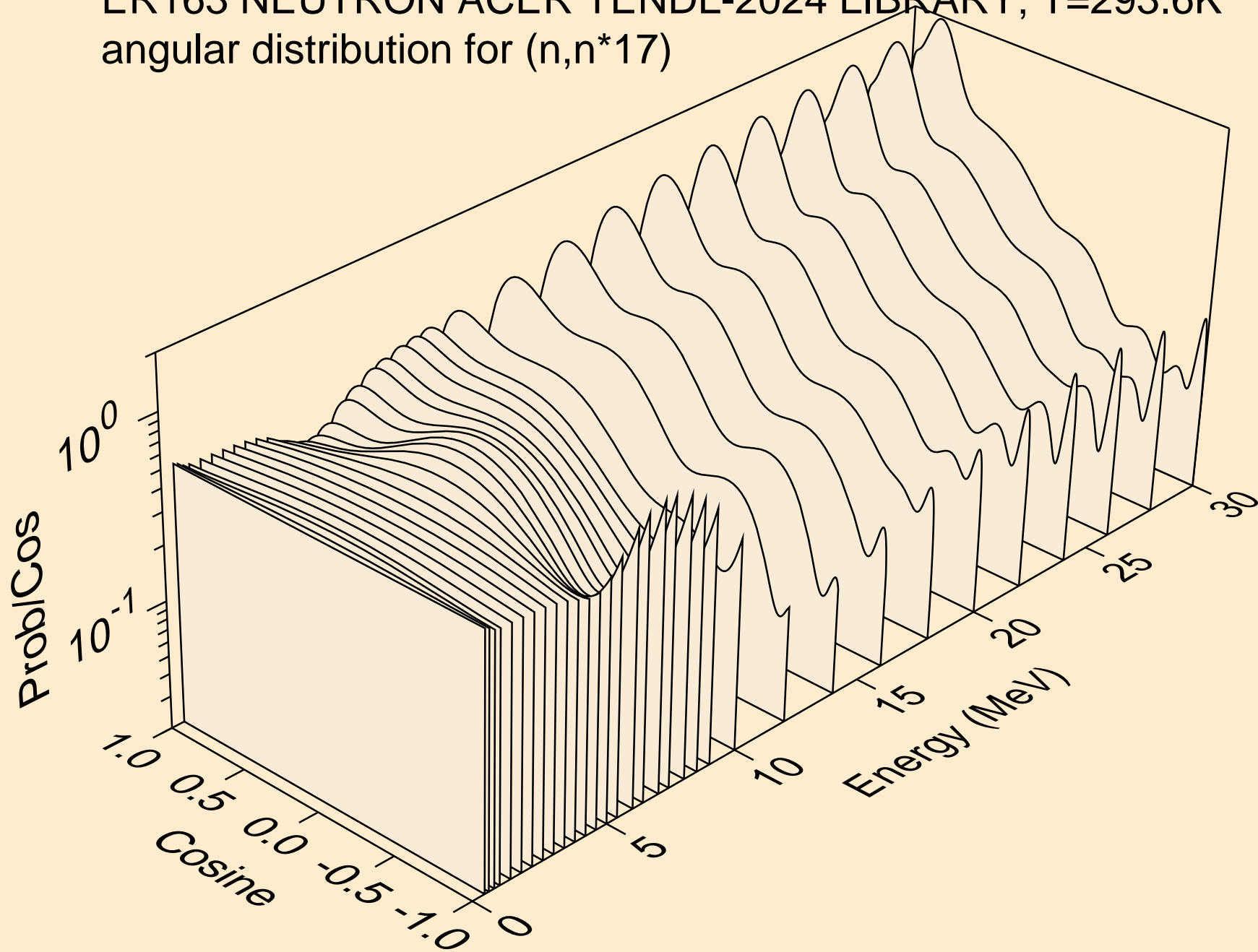
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angular distribution for (n,n\*15)



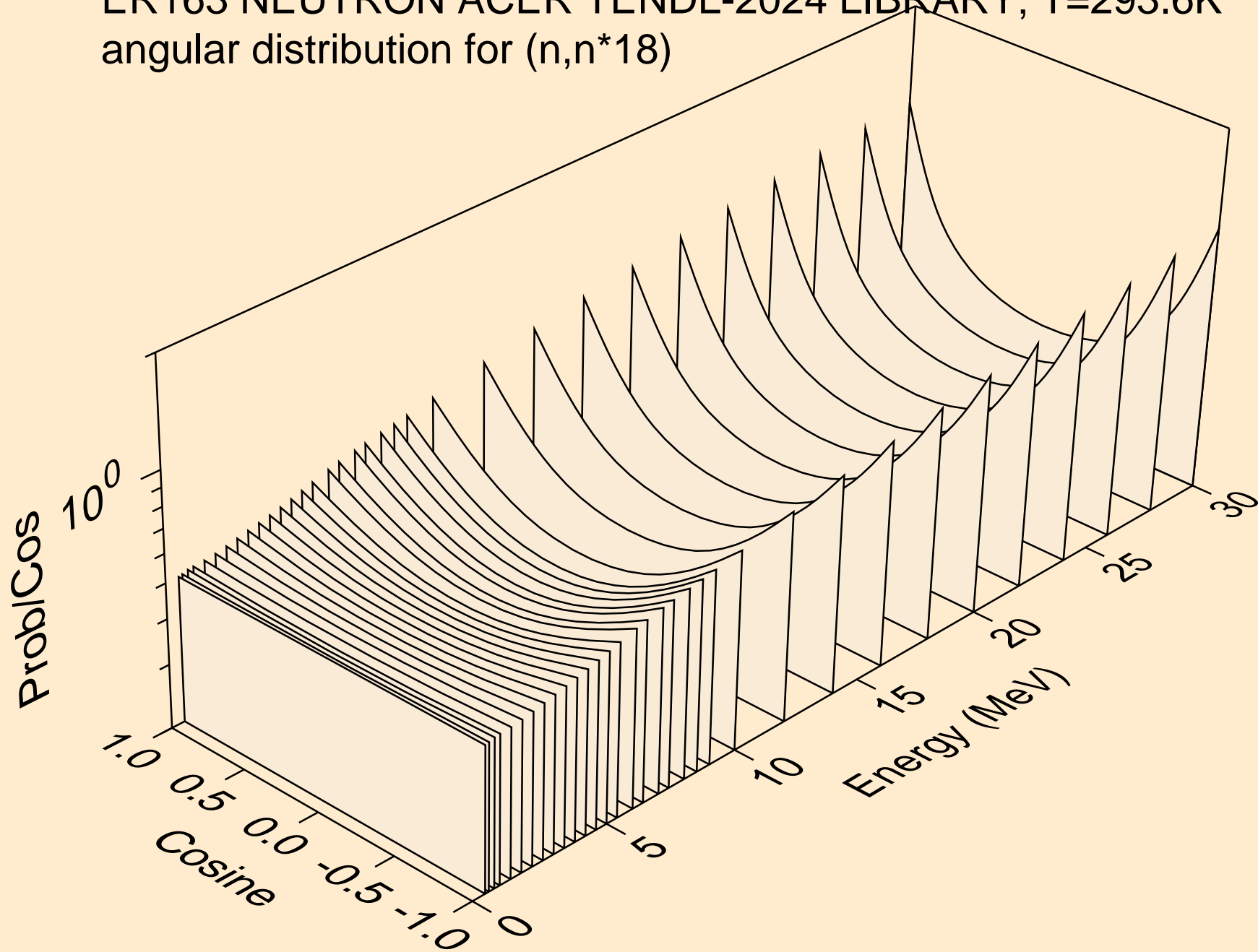
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angular distribution for (n,n\*16)



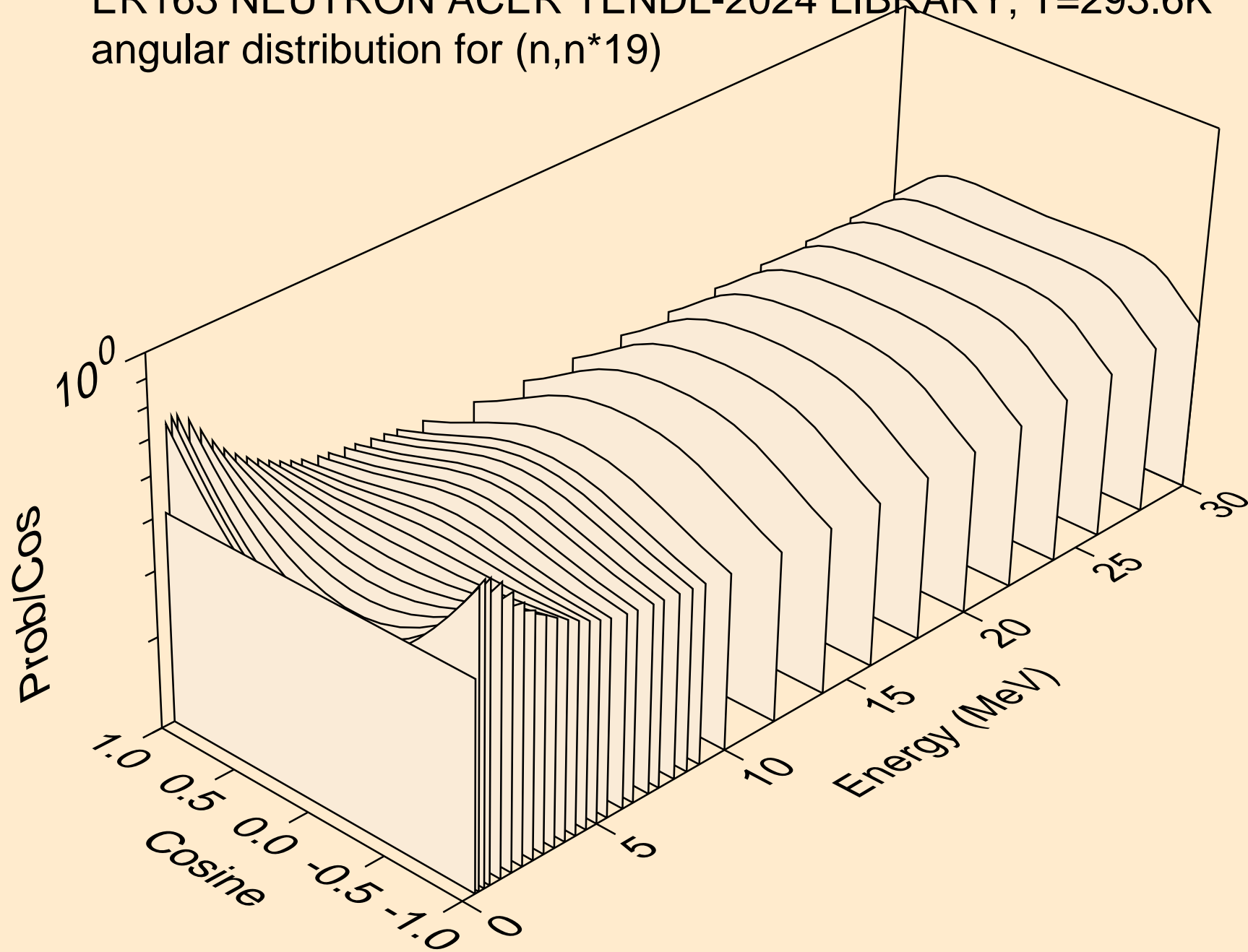
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angular distribution for (n,n\*17)



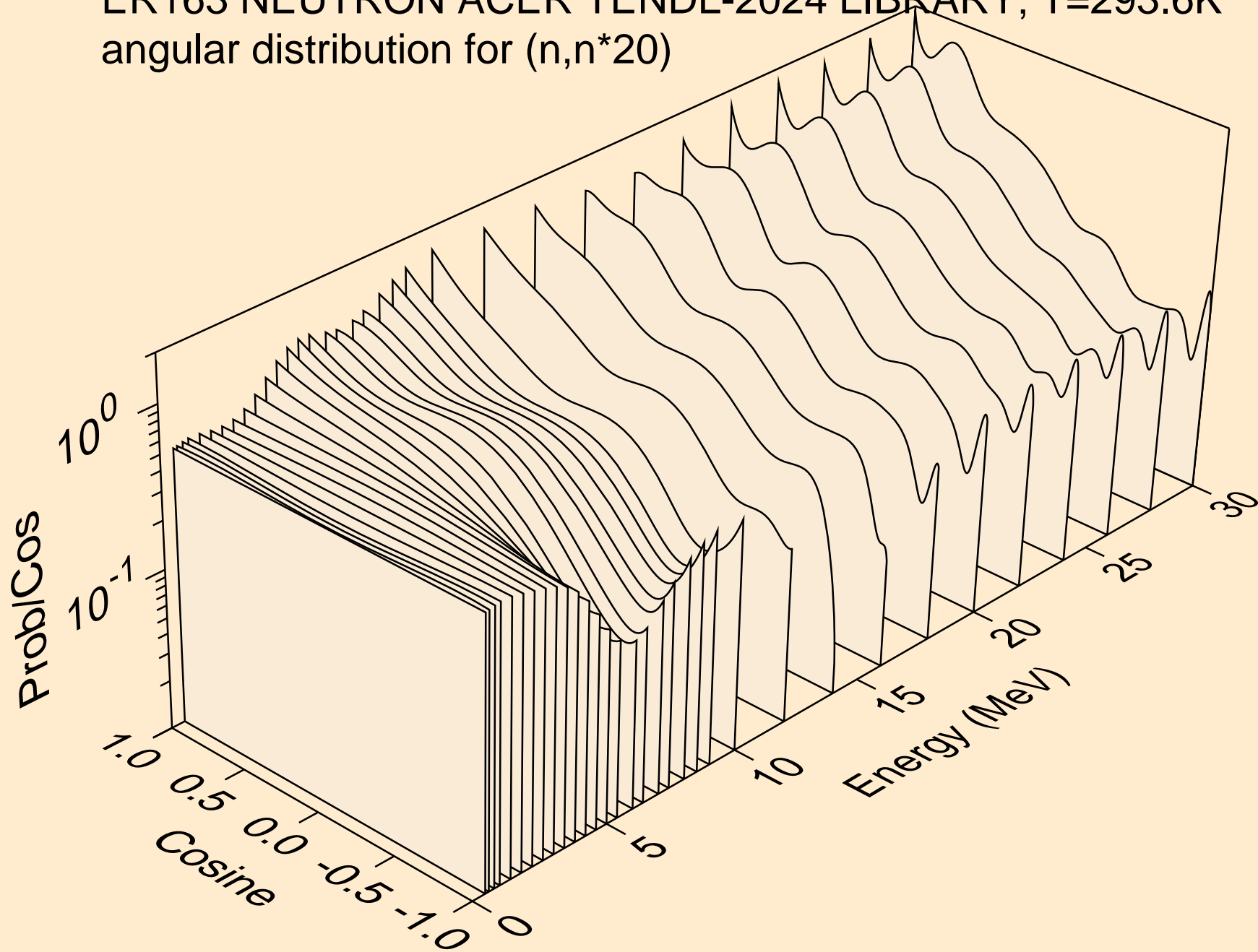
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angular distribution for (n,n\*18)



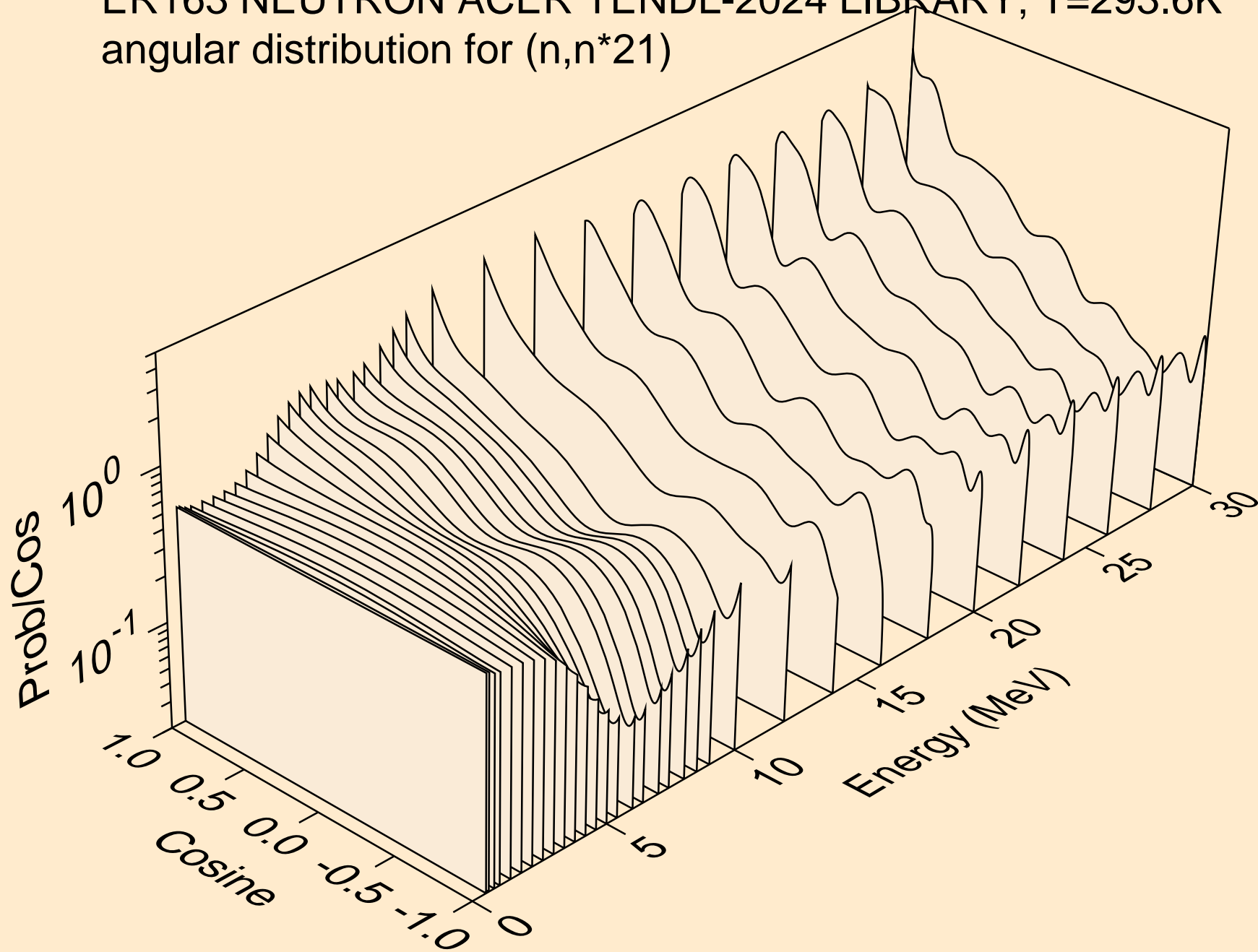
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angular distribution for (n,n\*19)



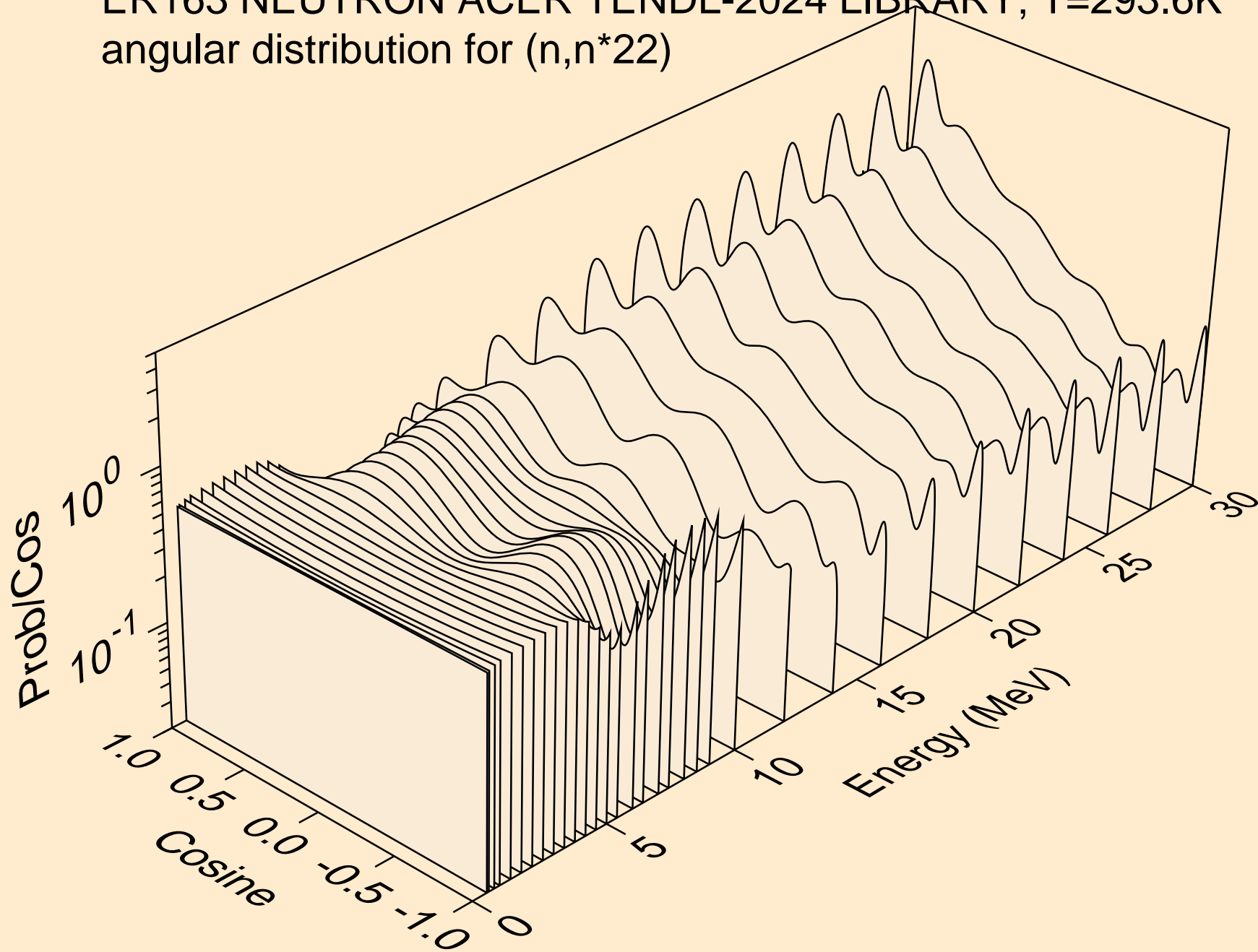
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angular distribution for (n,n\*20)



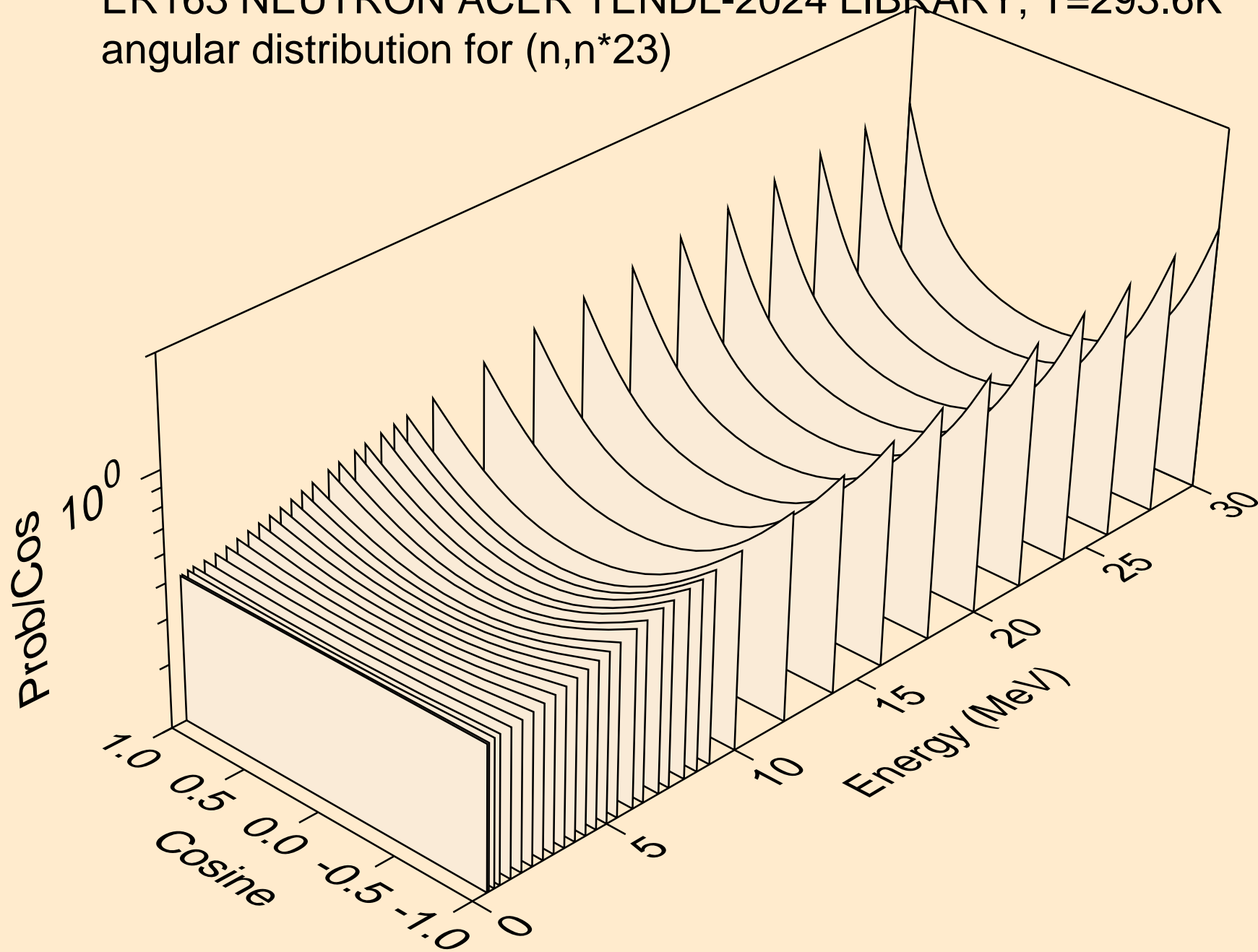
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angular distribution for (n,n\*21)



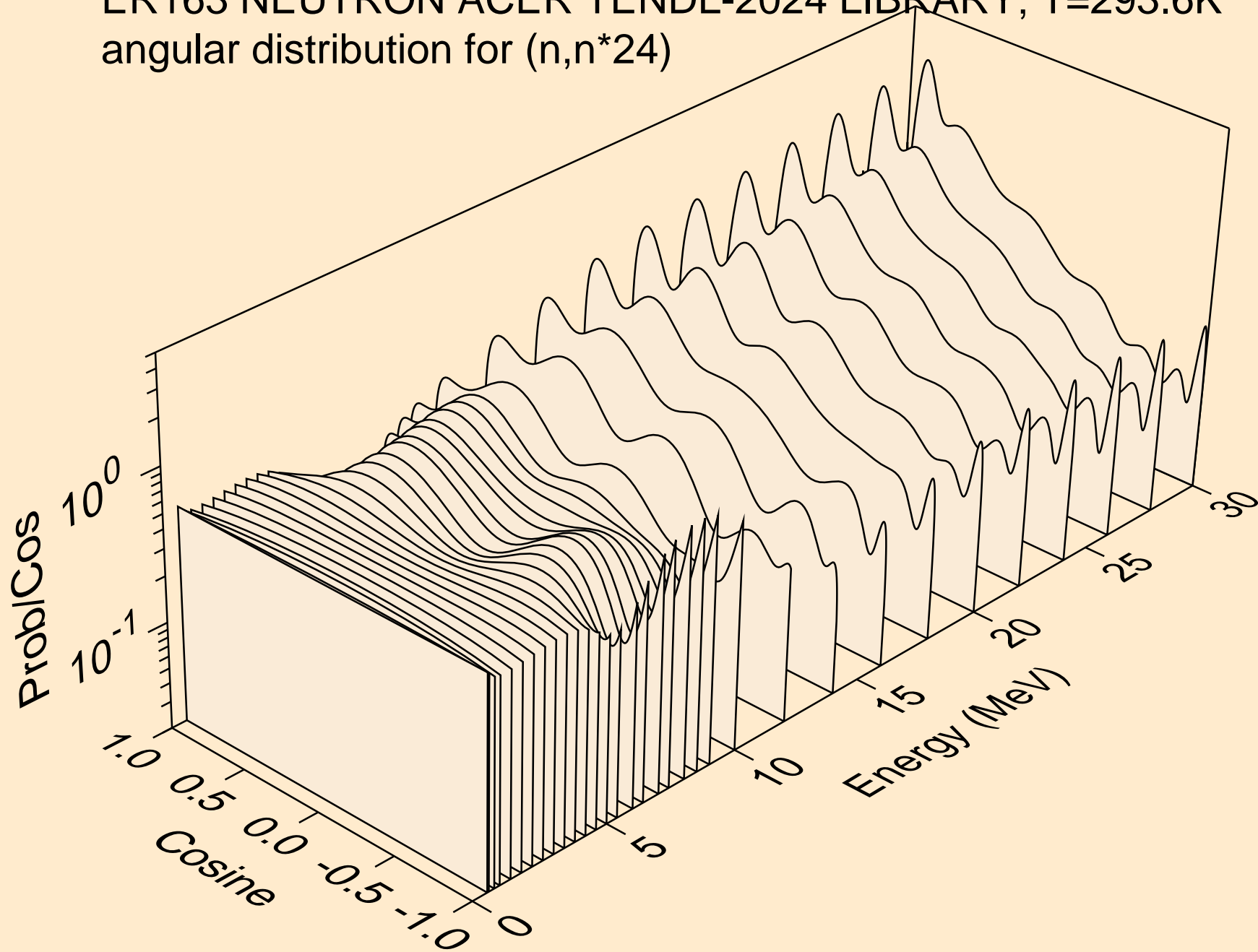
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*22)



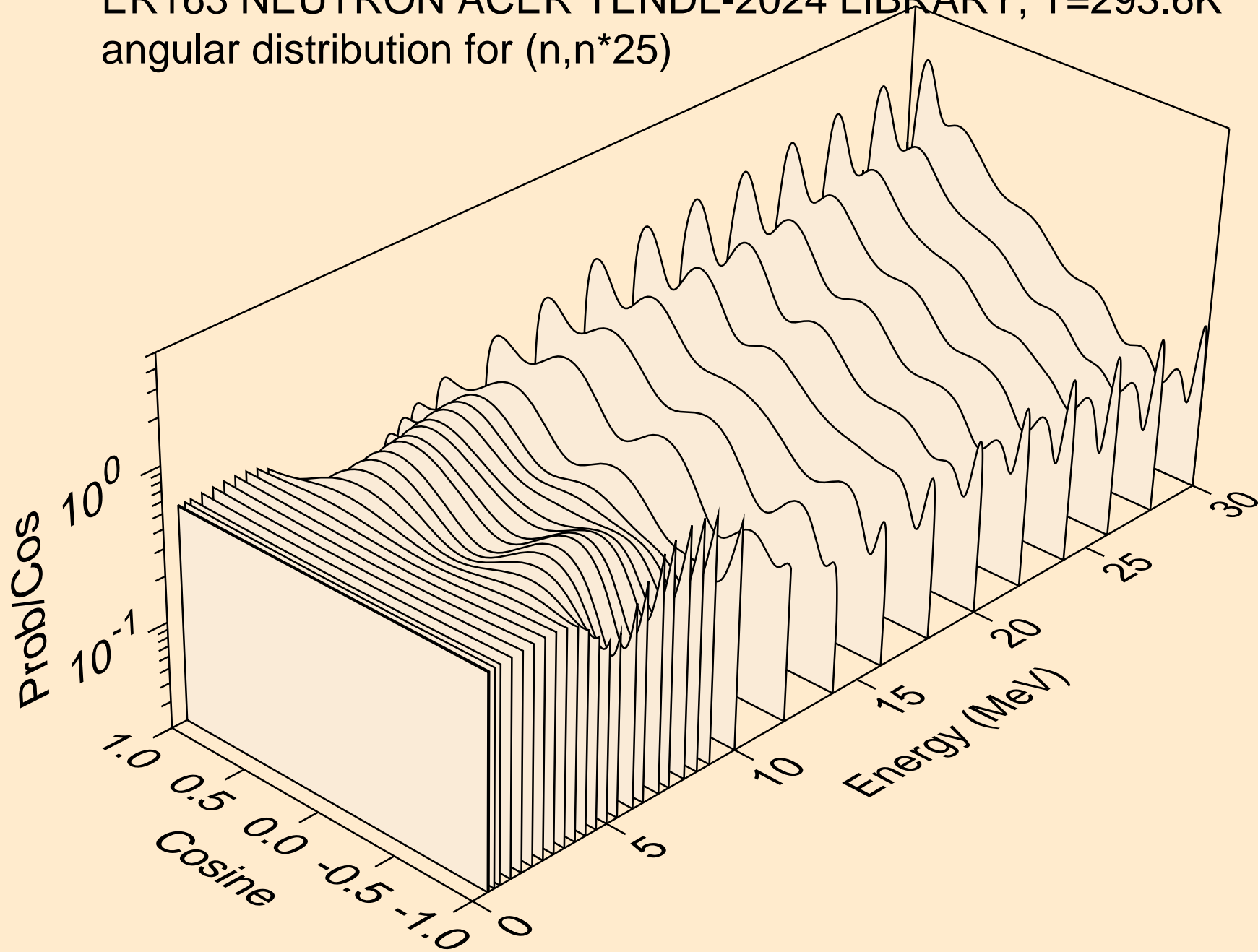
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angular distribution for (n,n\*23)



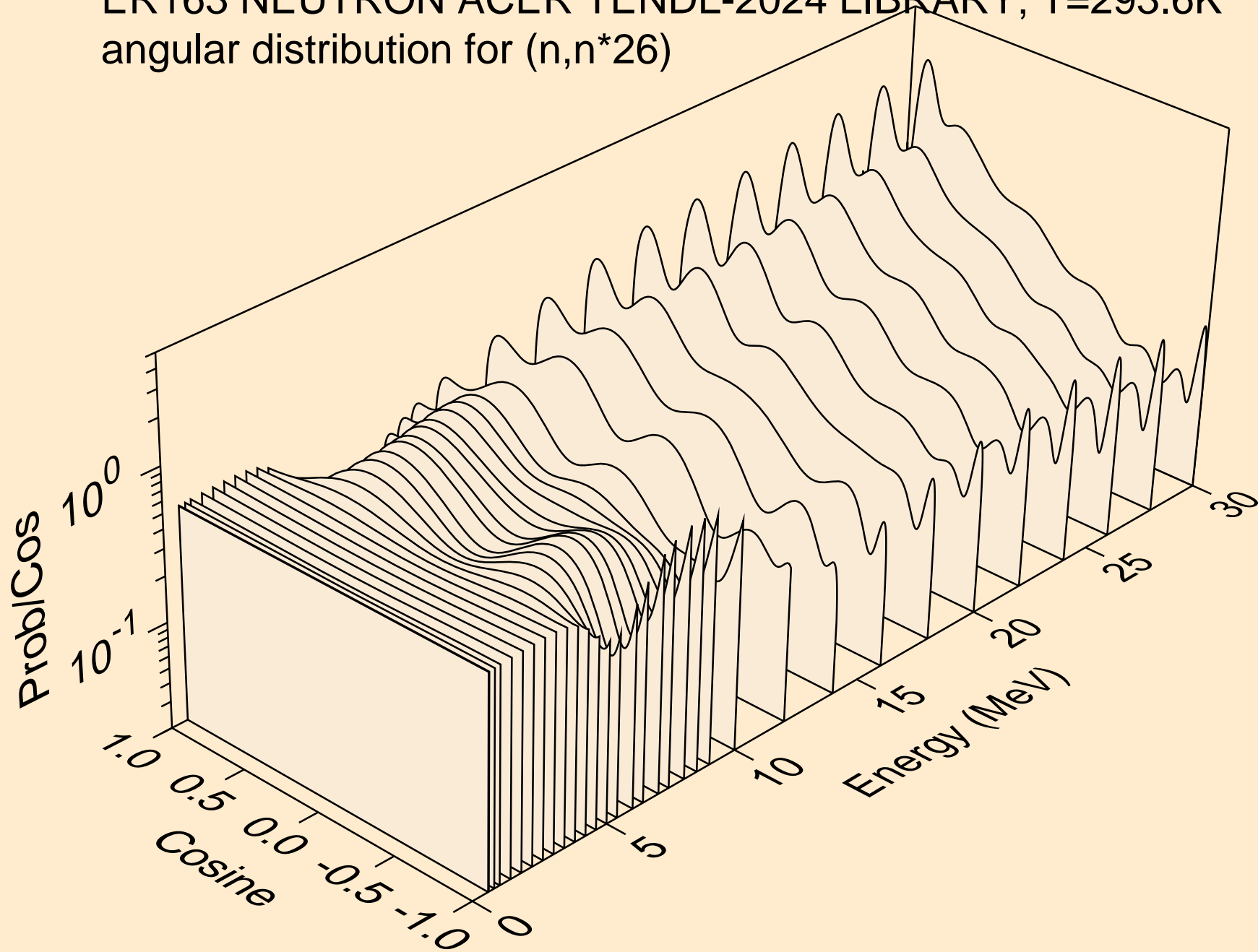
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)



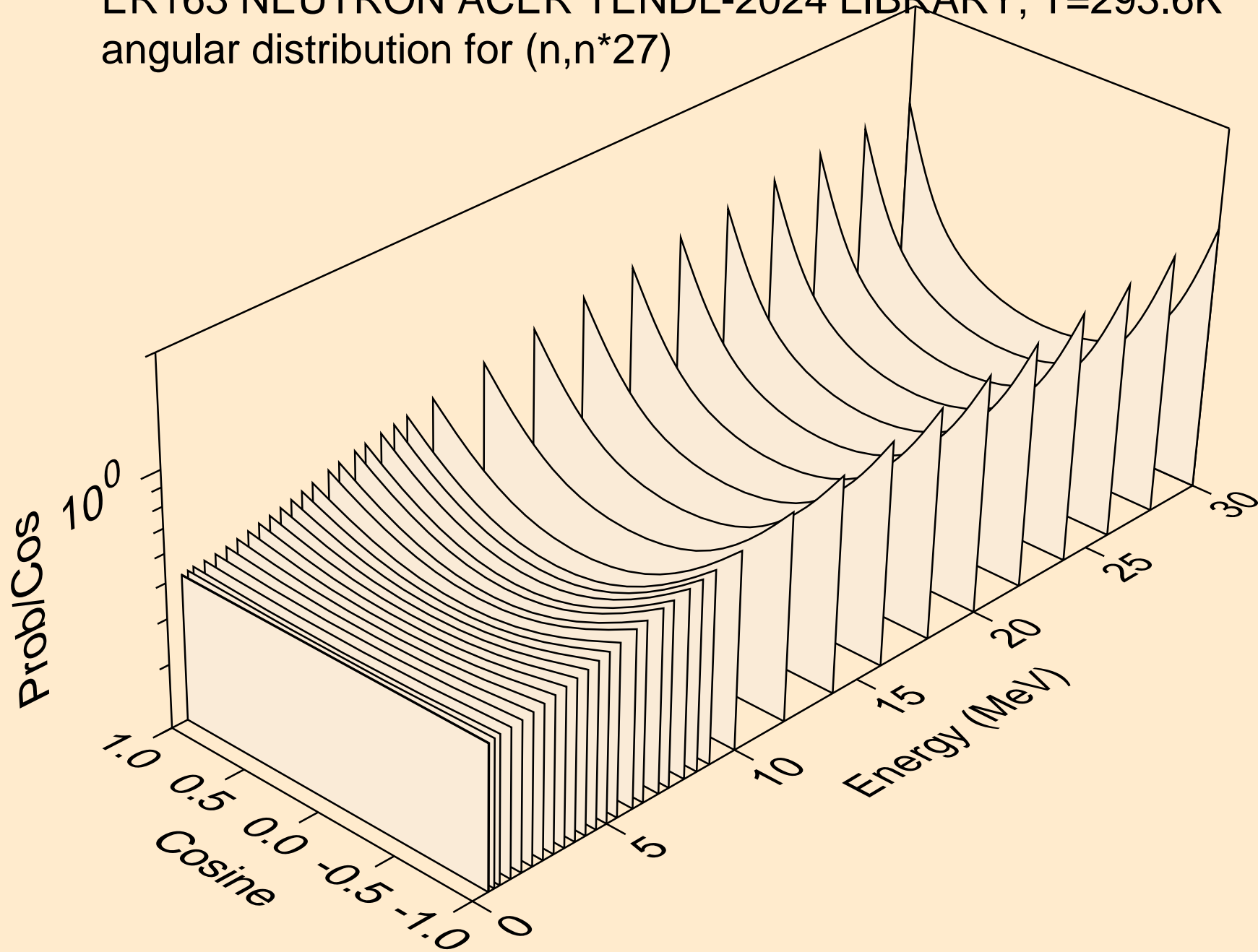
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)



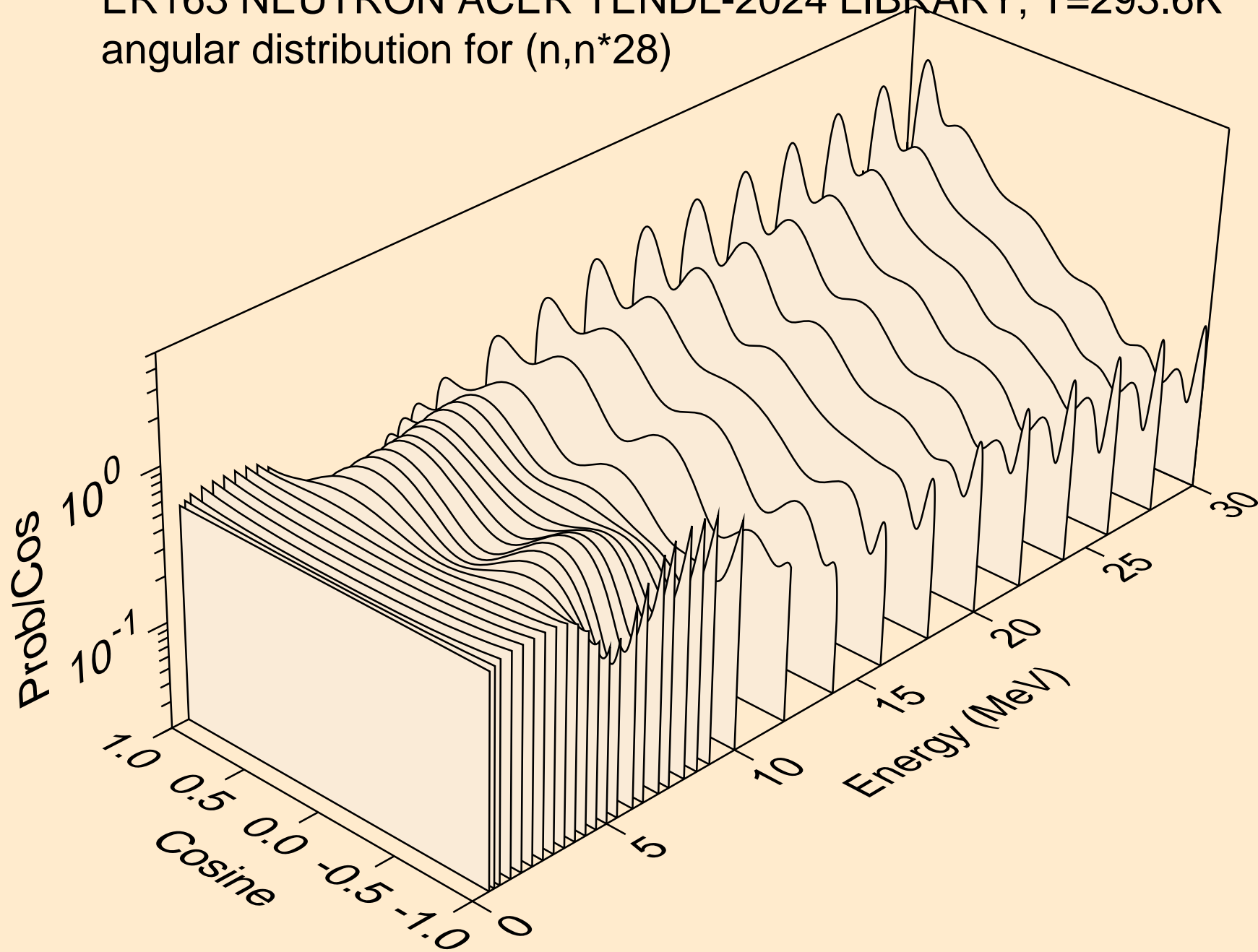
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angular distribution for (n,n\*26)



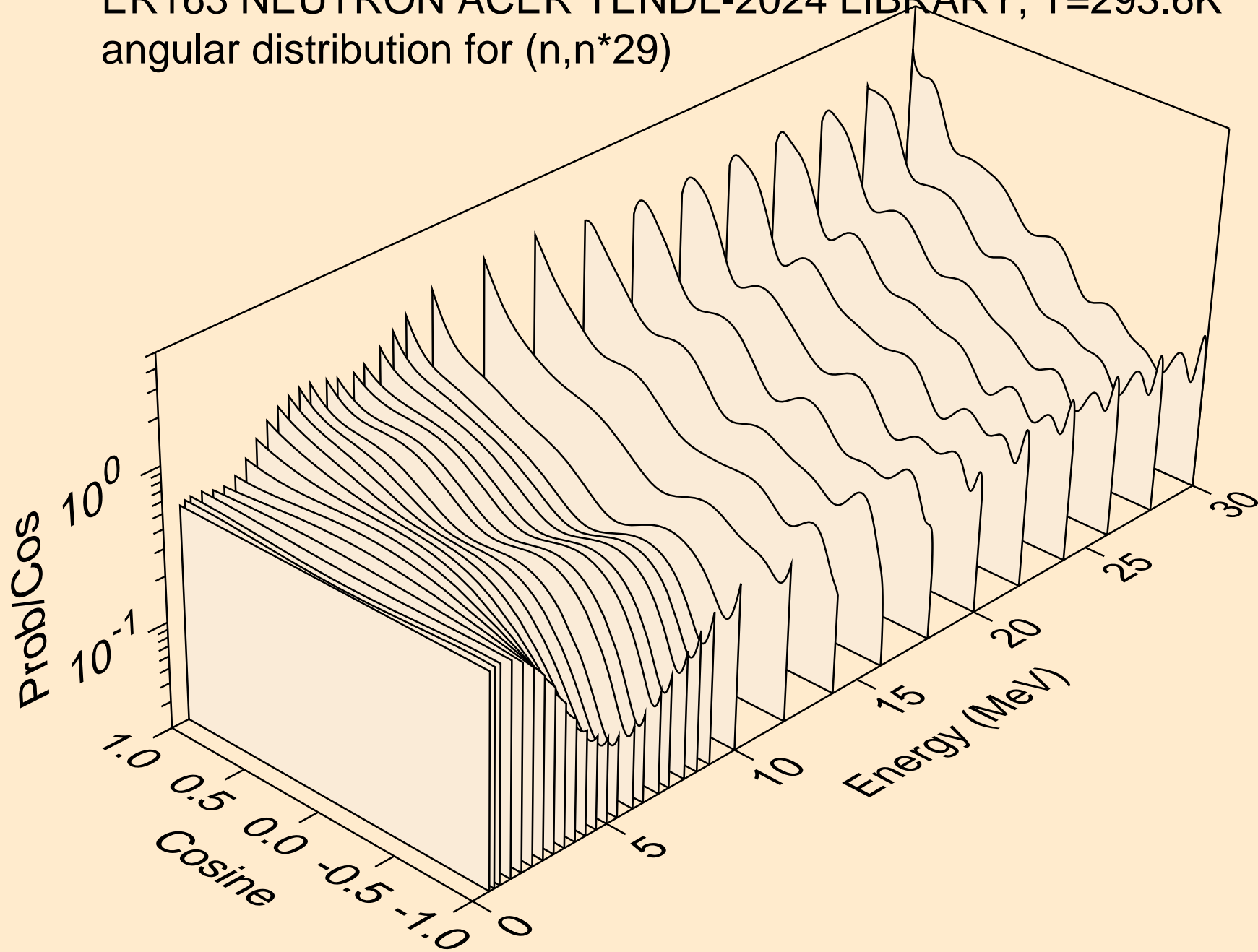
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angular distribution for (n,n\*27)



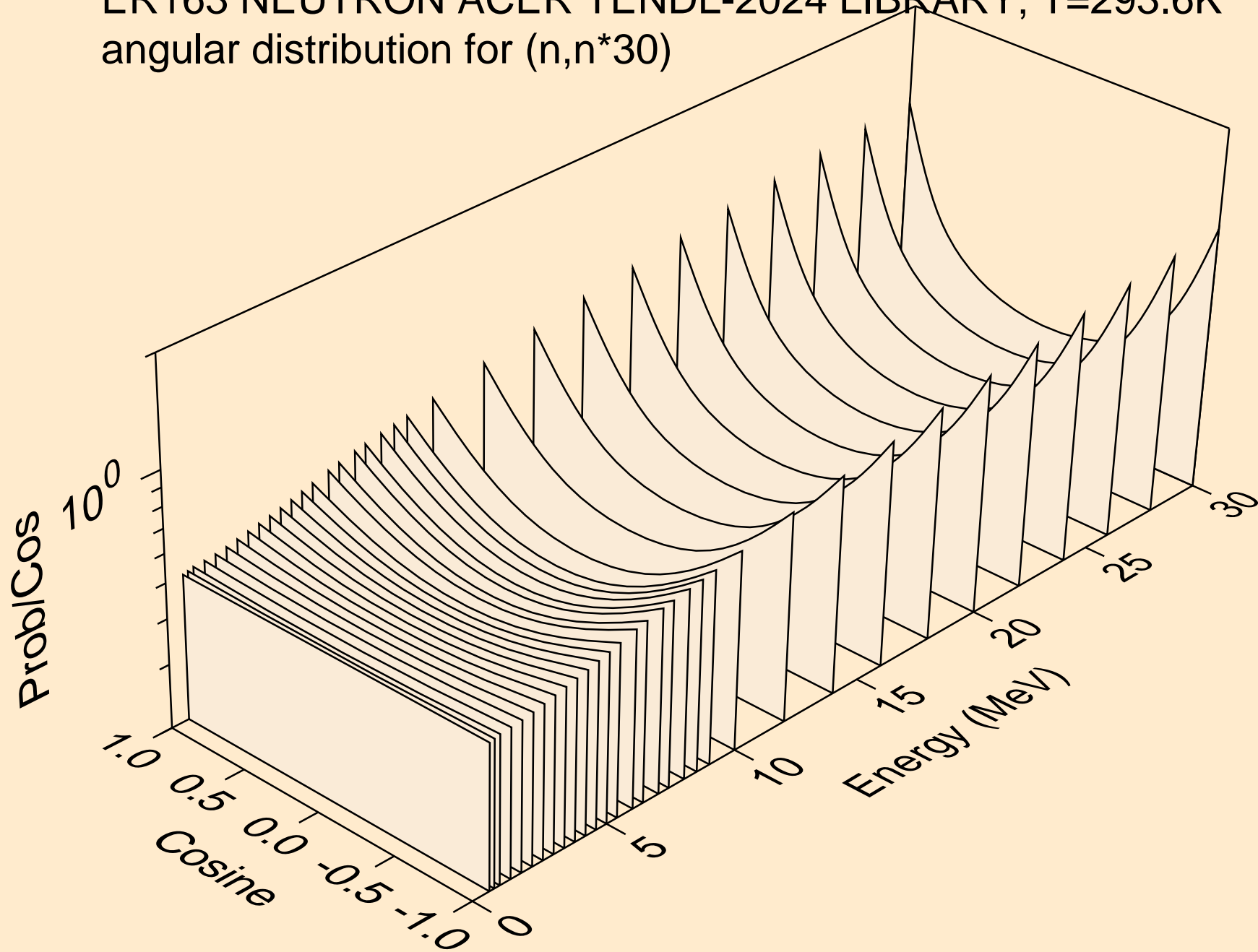
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*28)



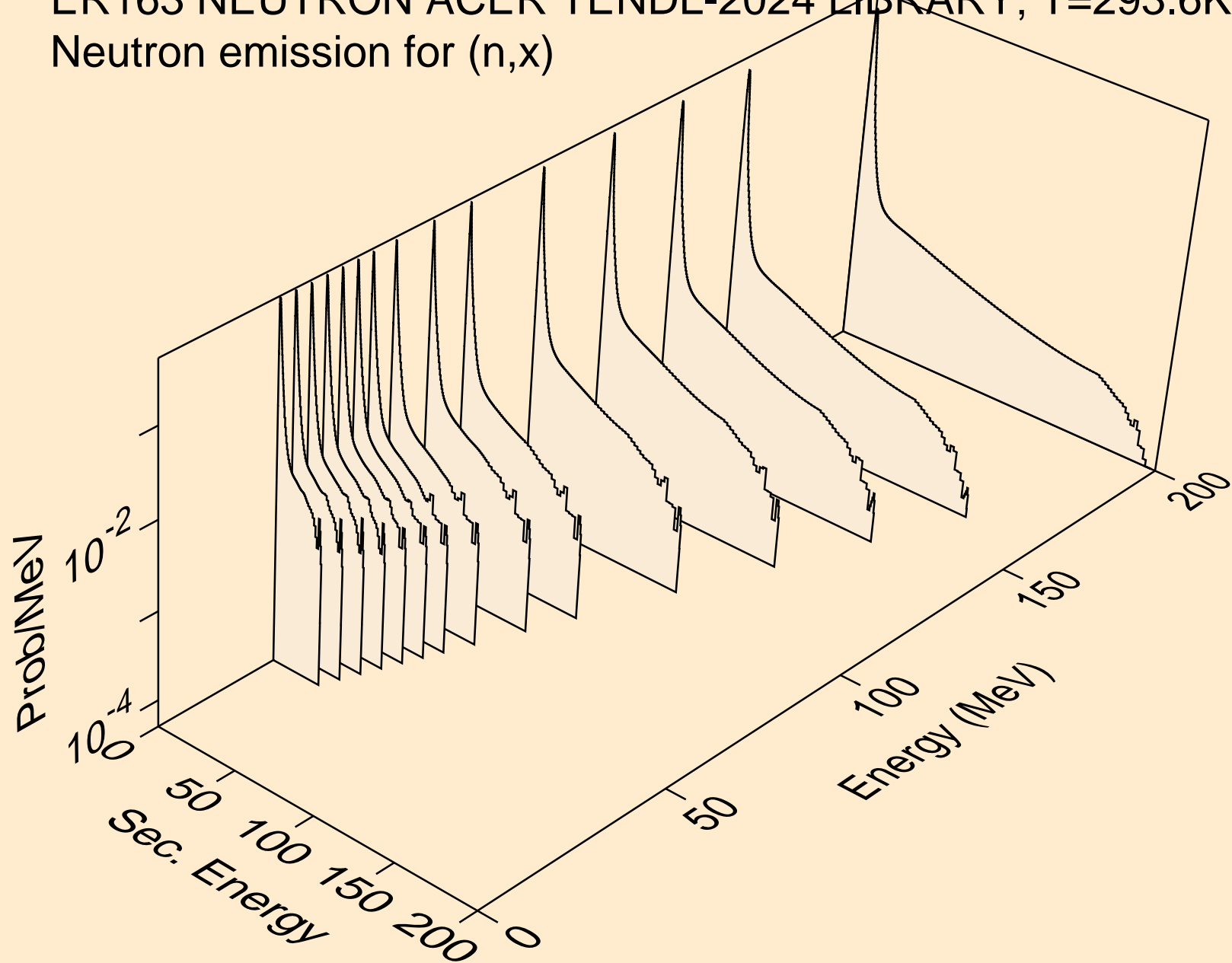
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angular distribution for (n,n\*29)



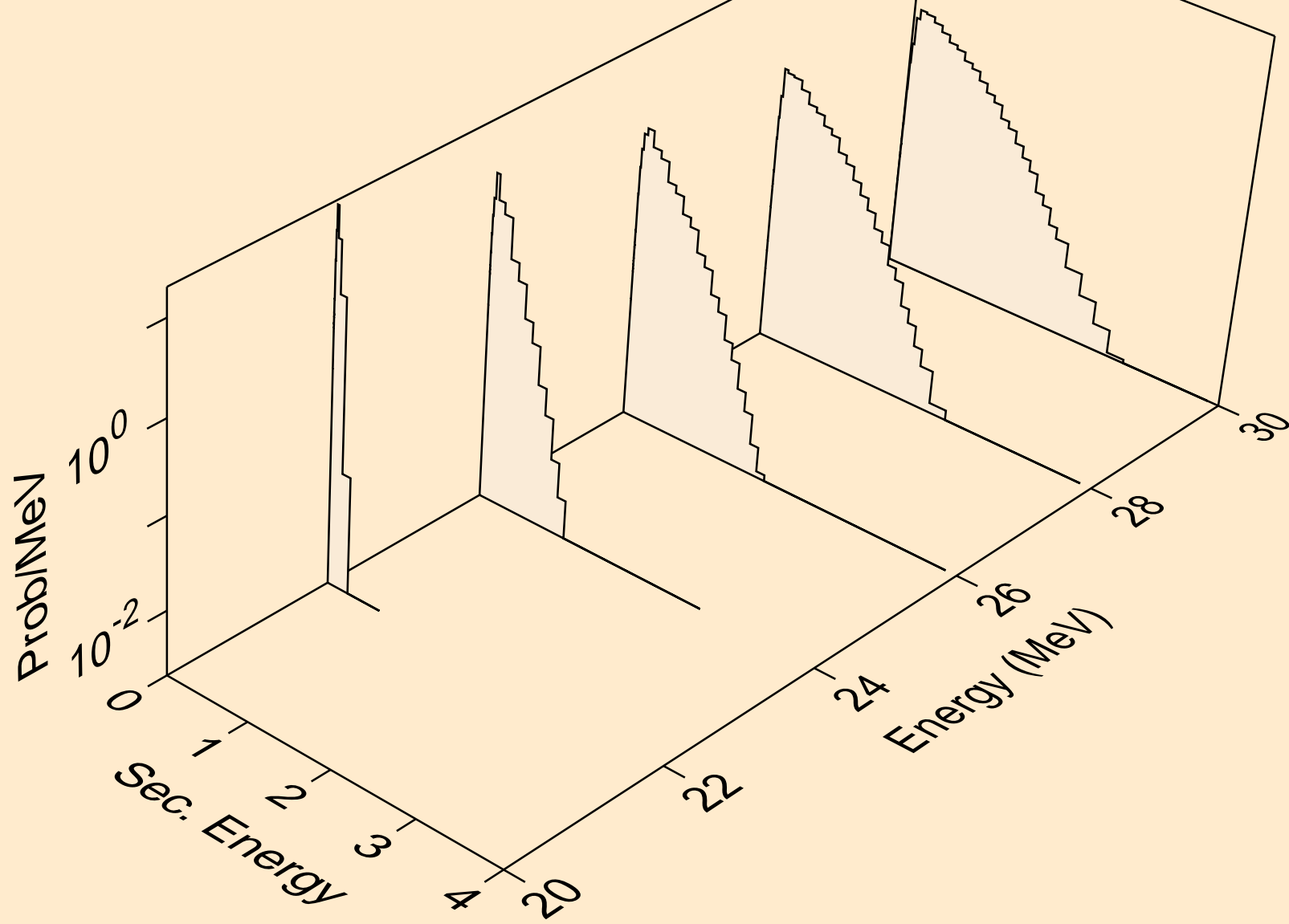
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angular distribution for (n,n\*30)



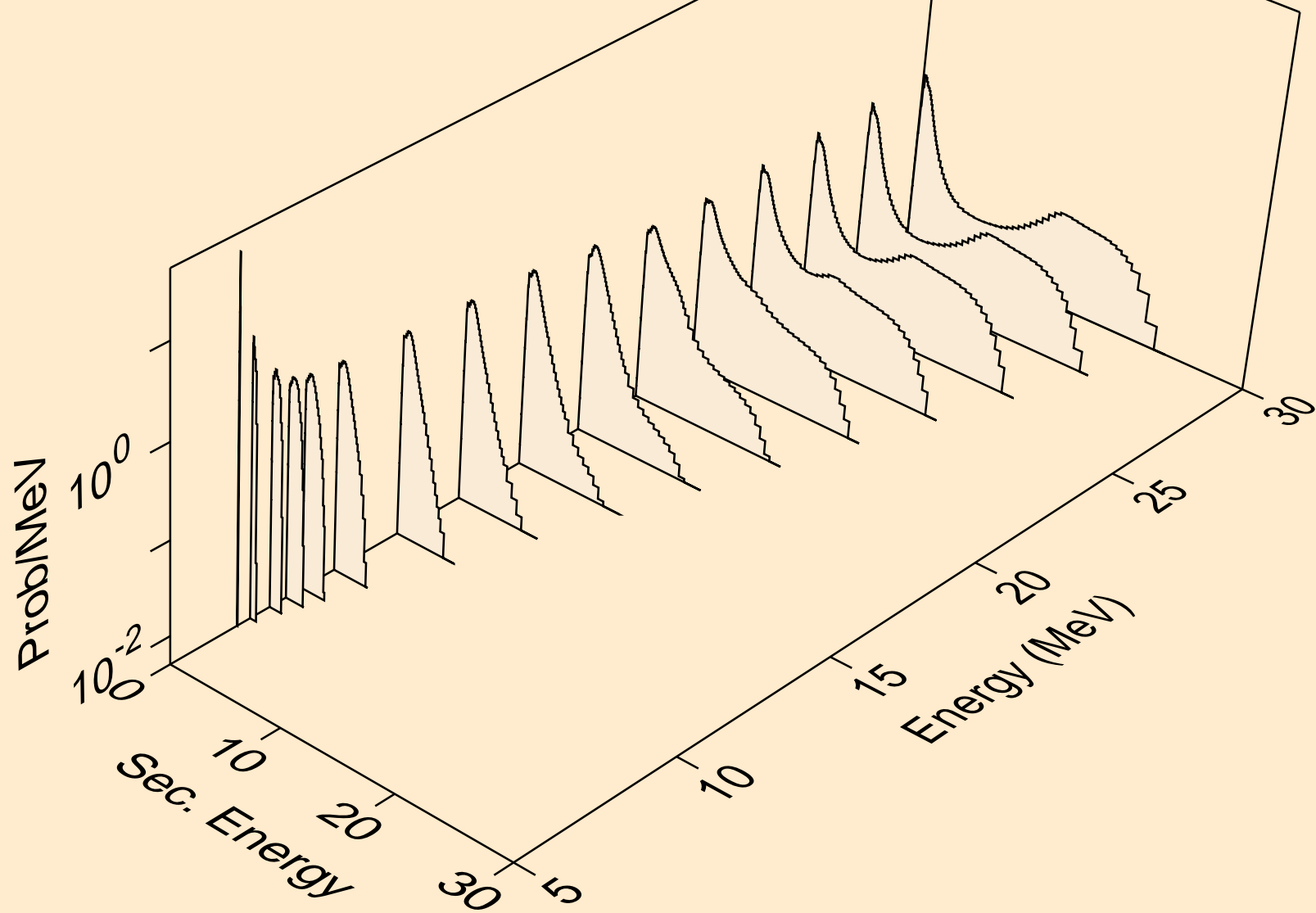
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,x)



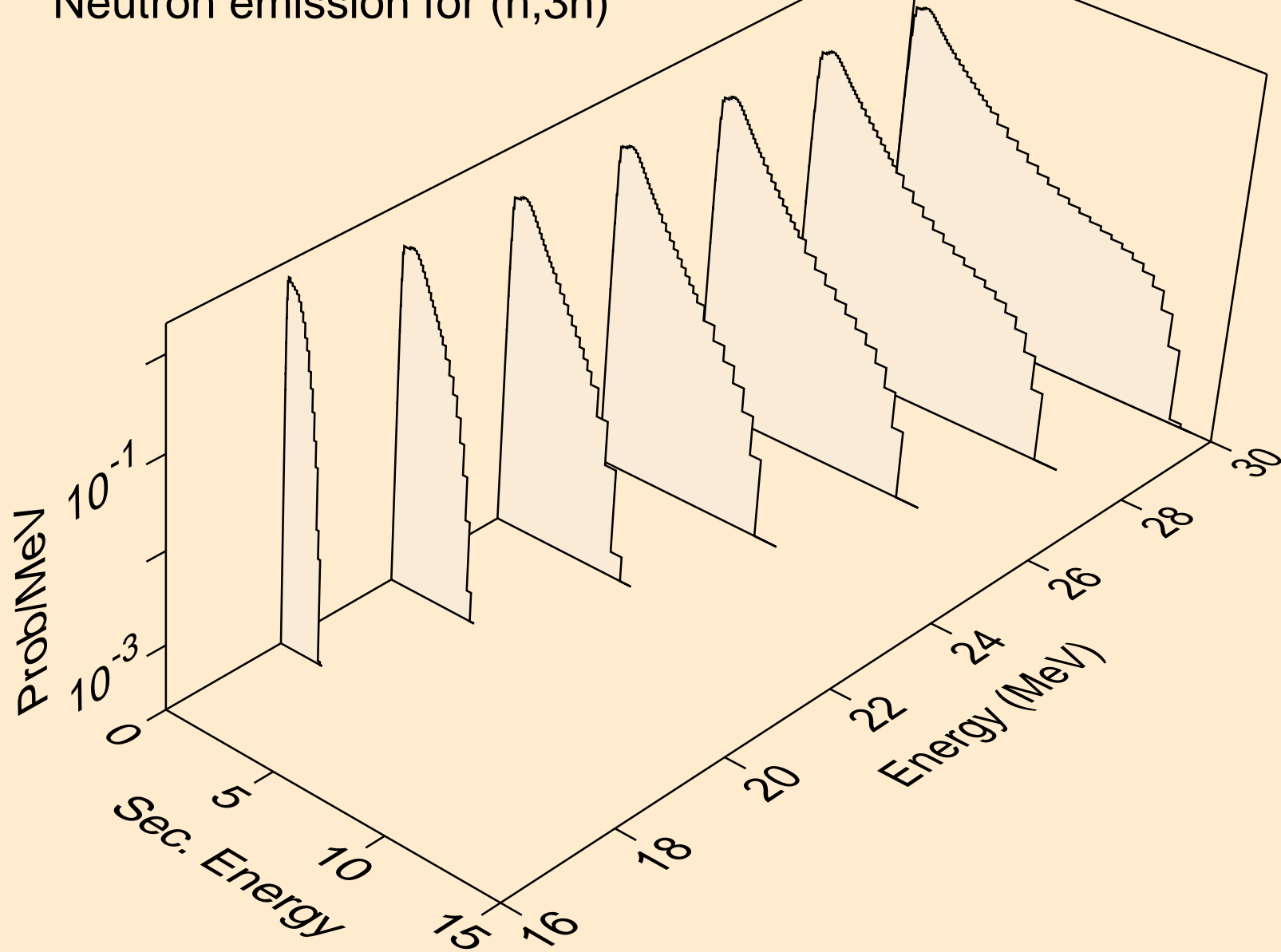
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



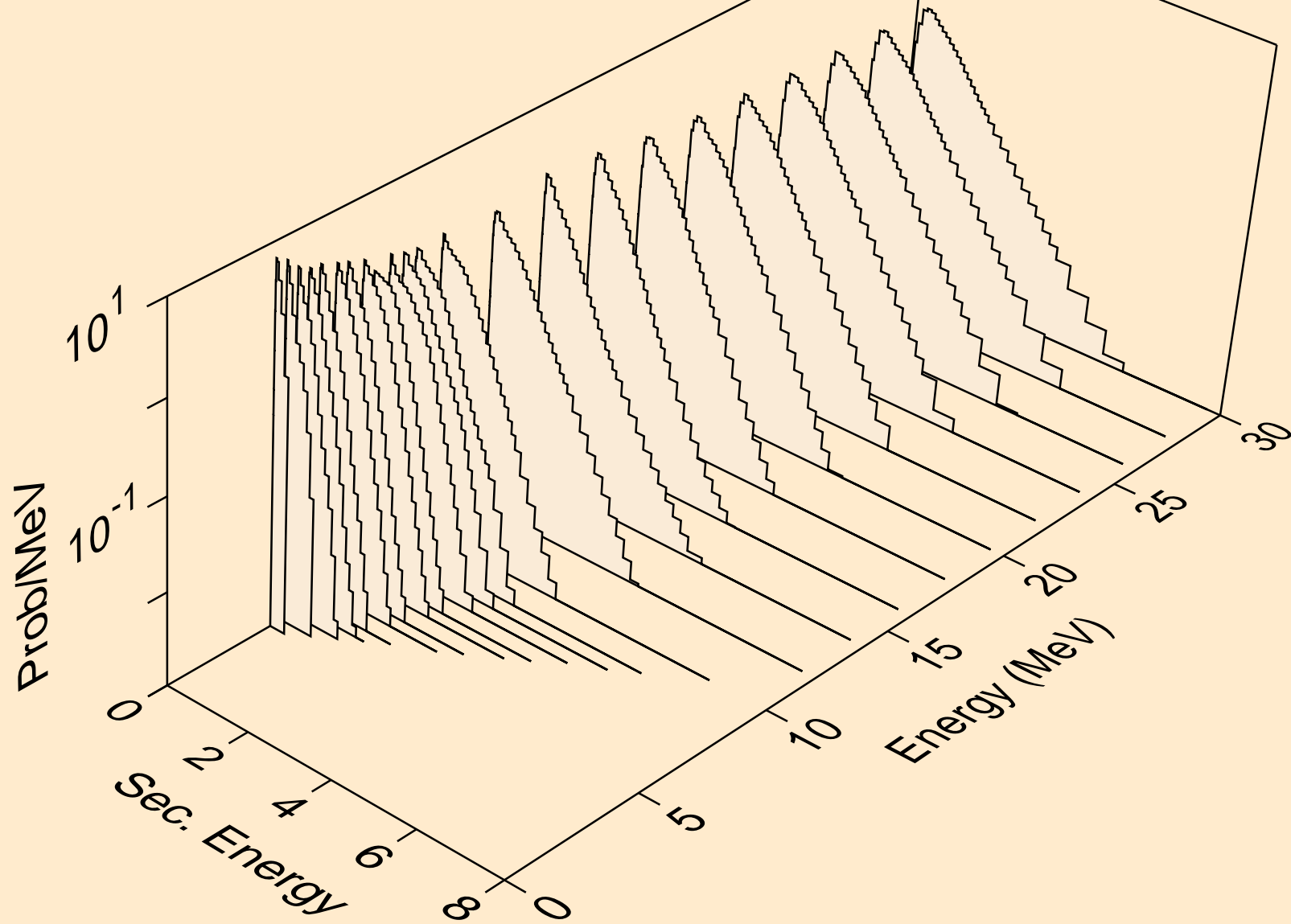
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



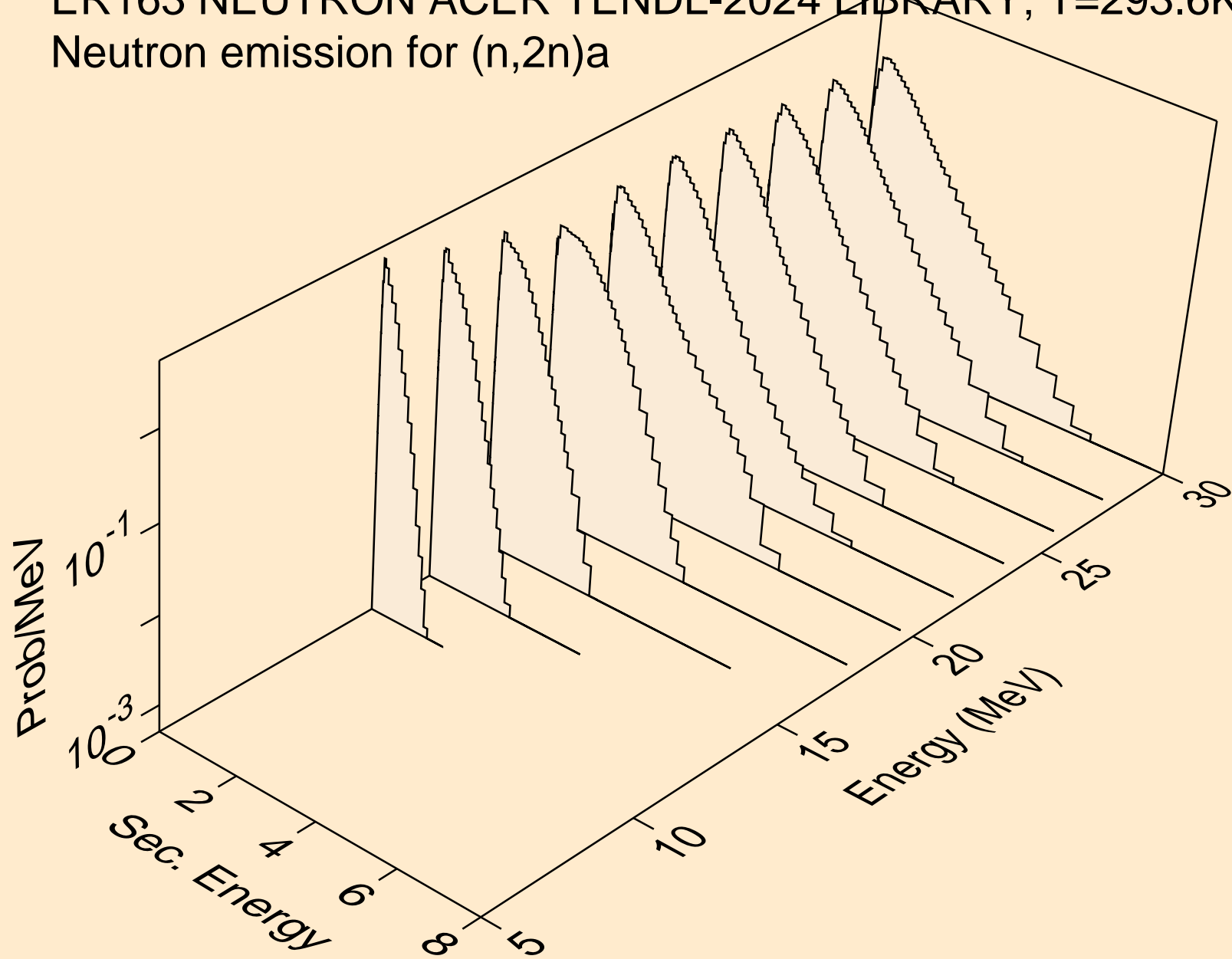
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



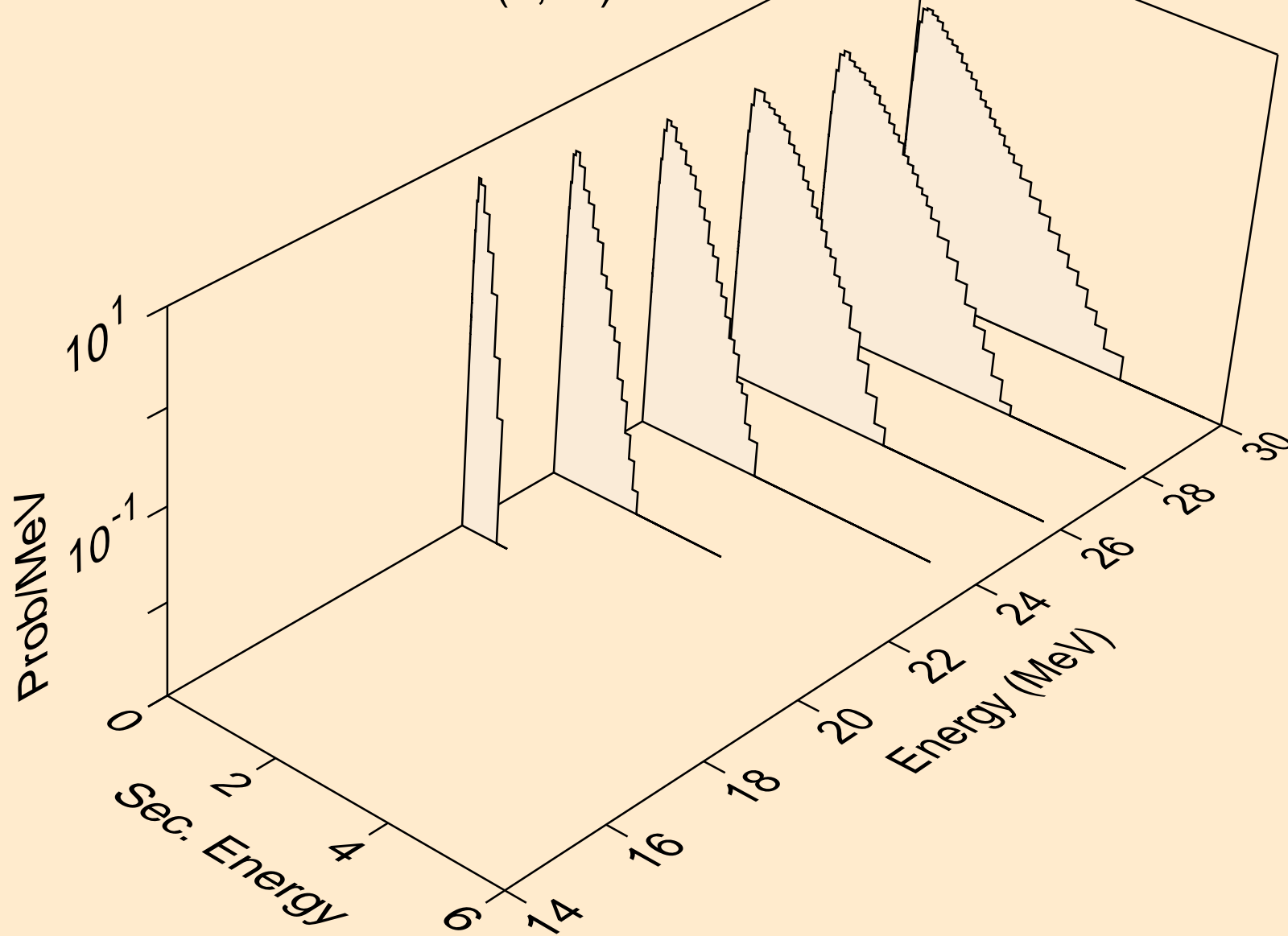
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



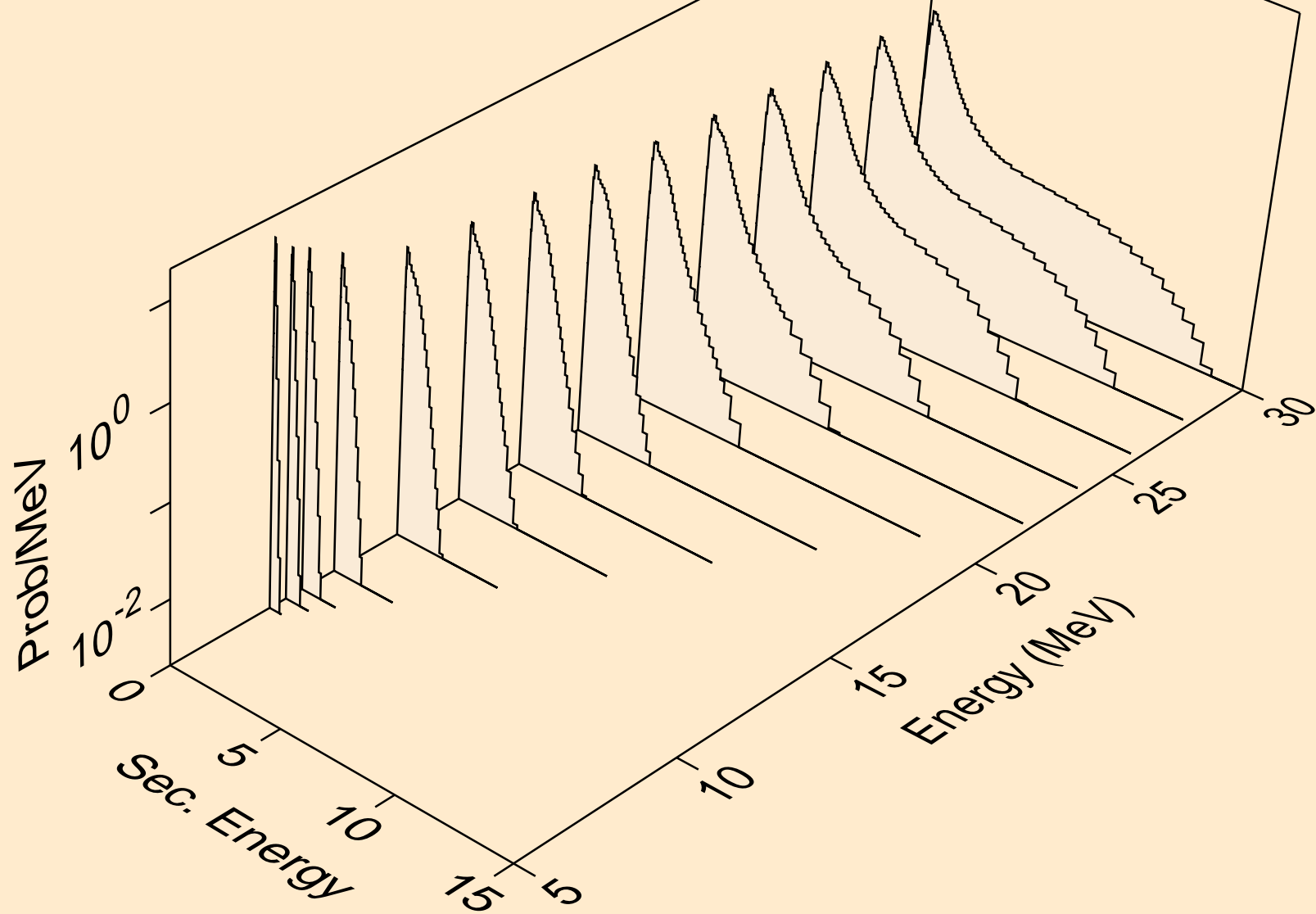
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)a



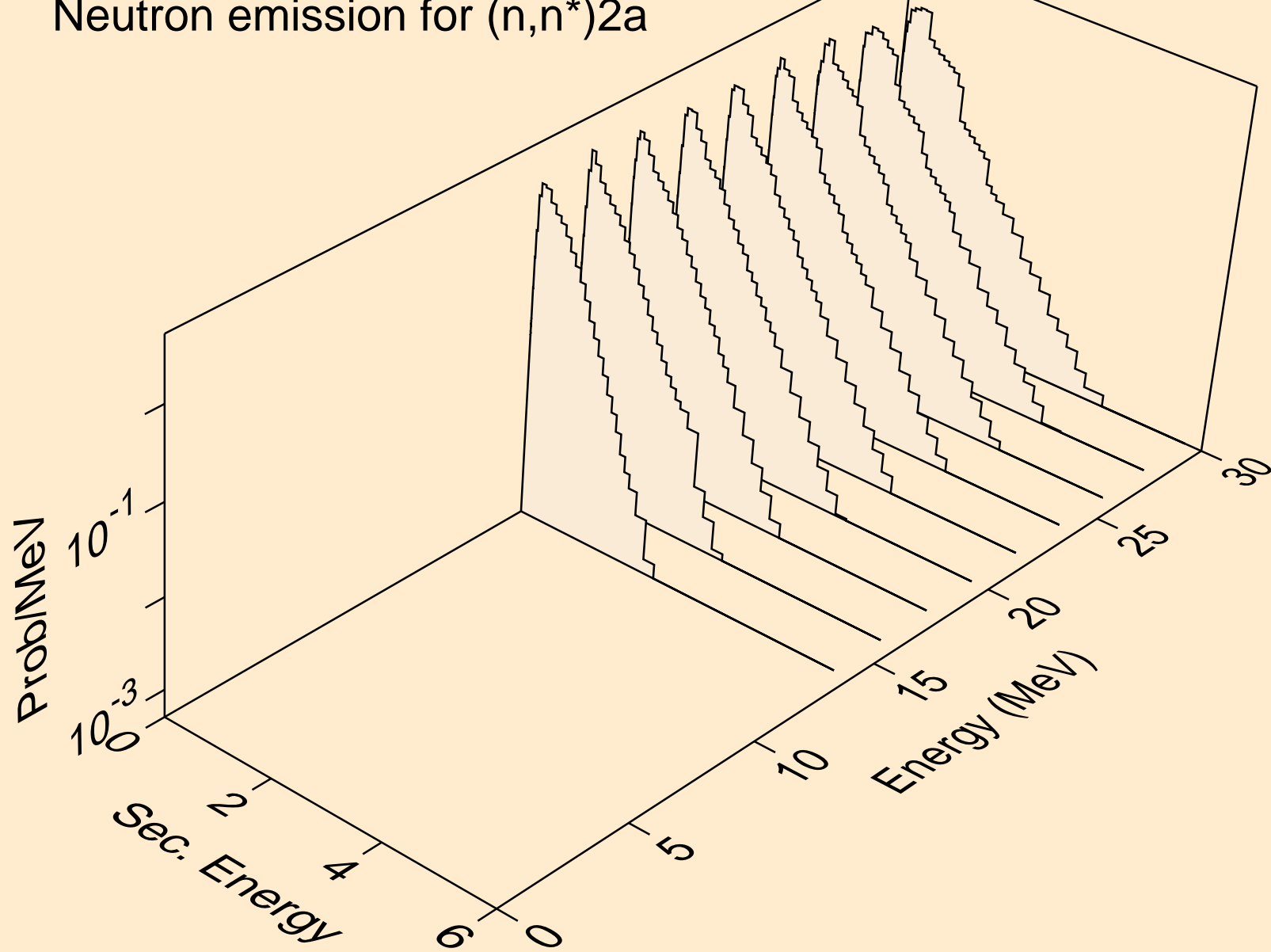
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



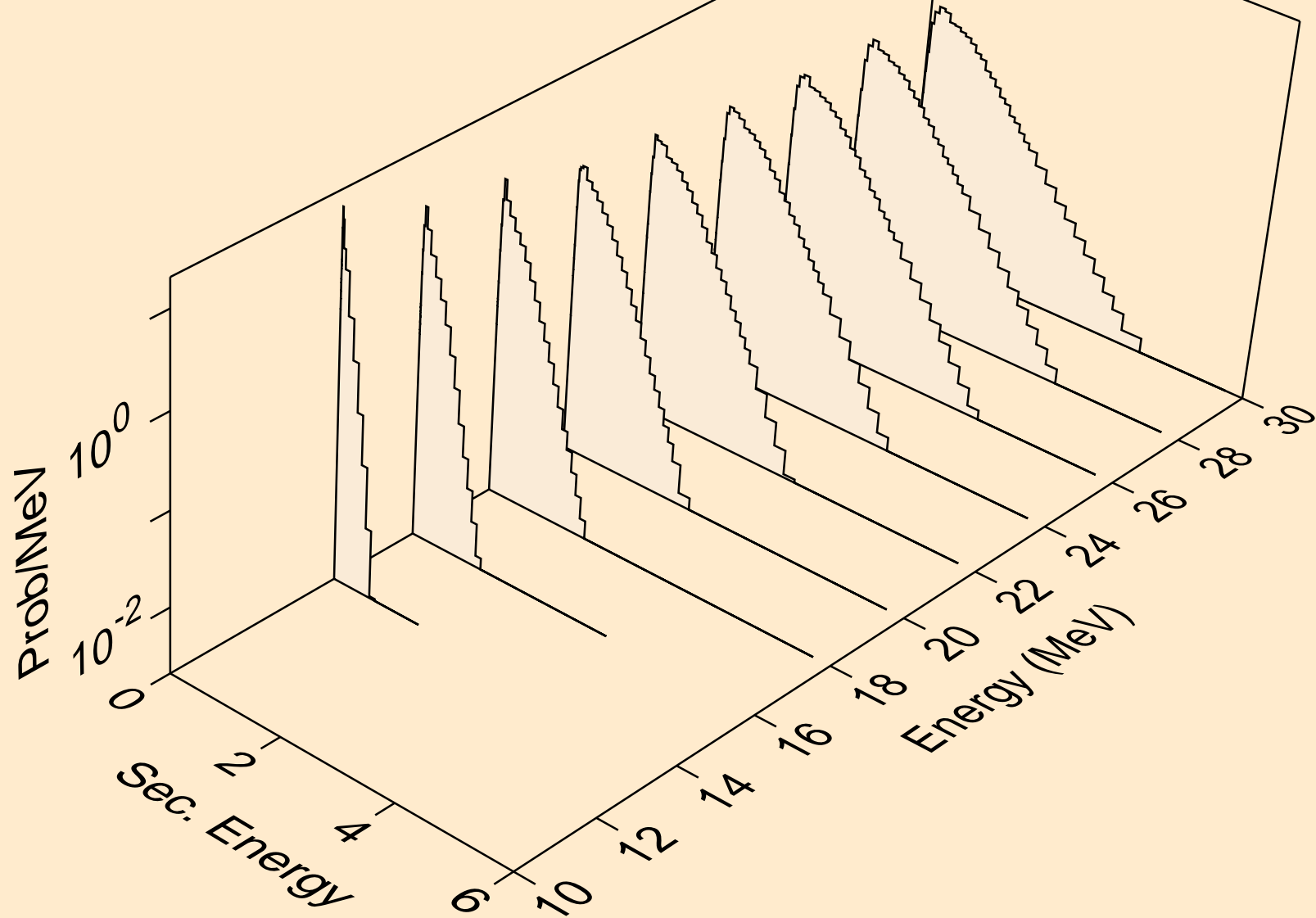
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



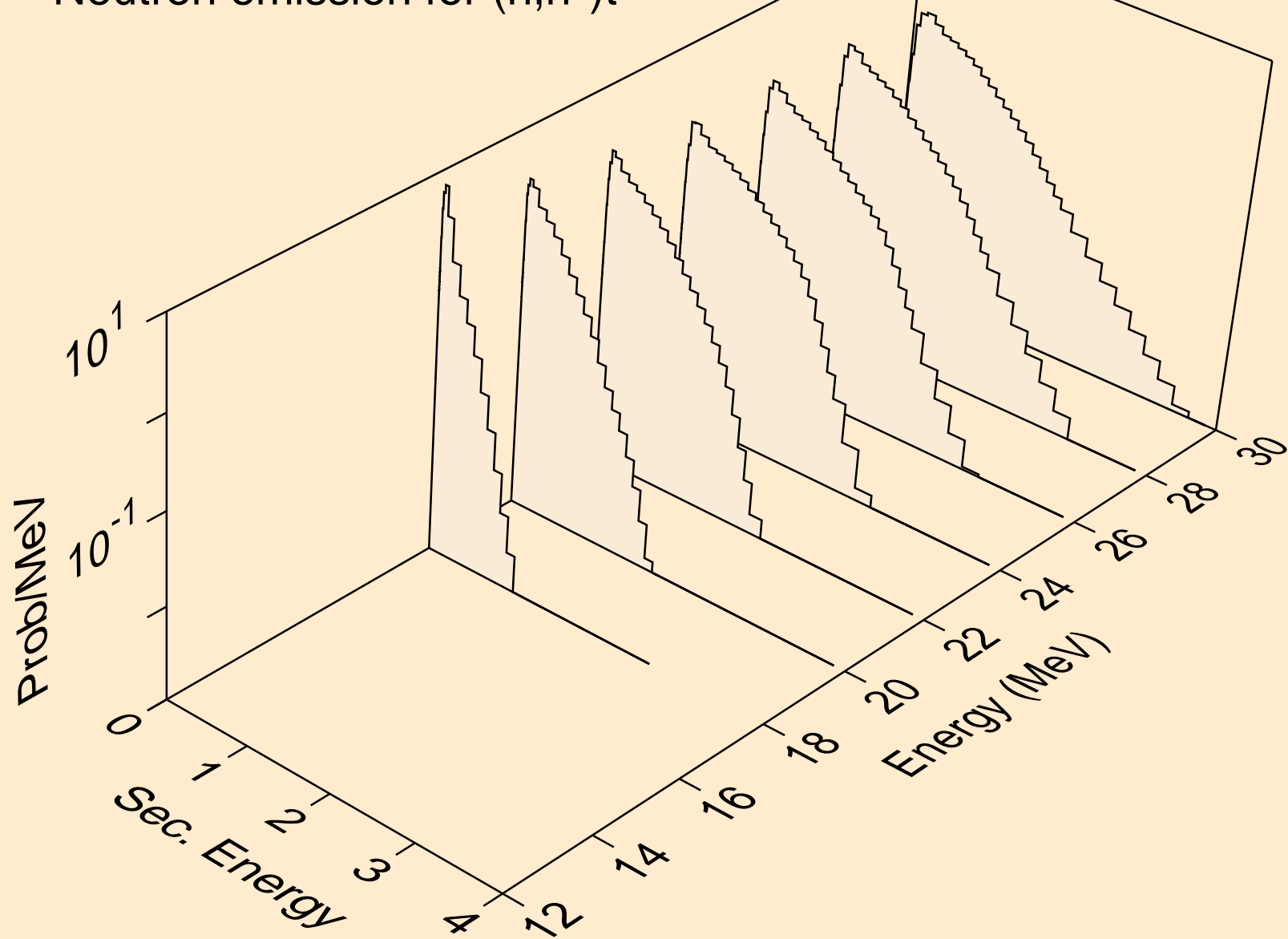
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a



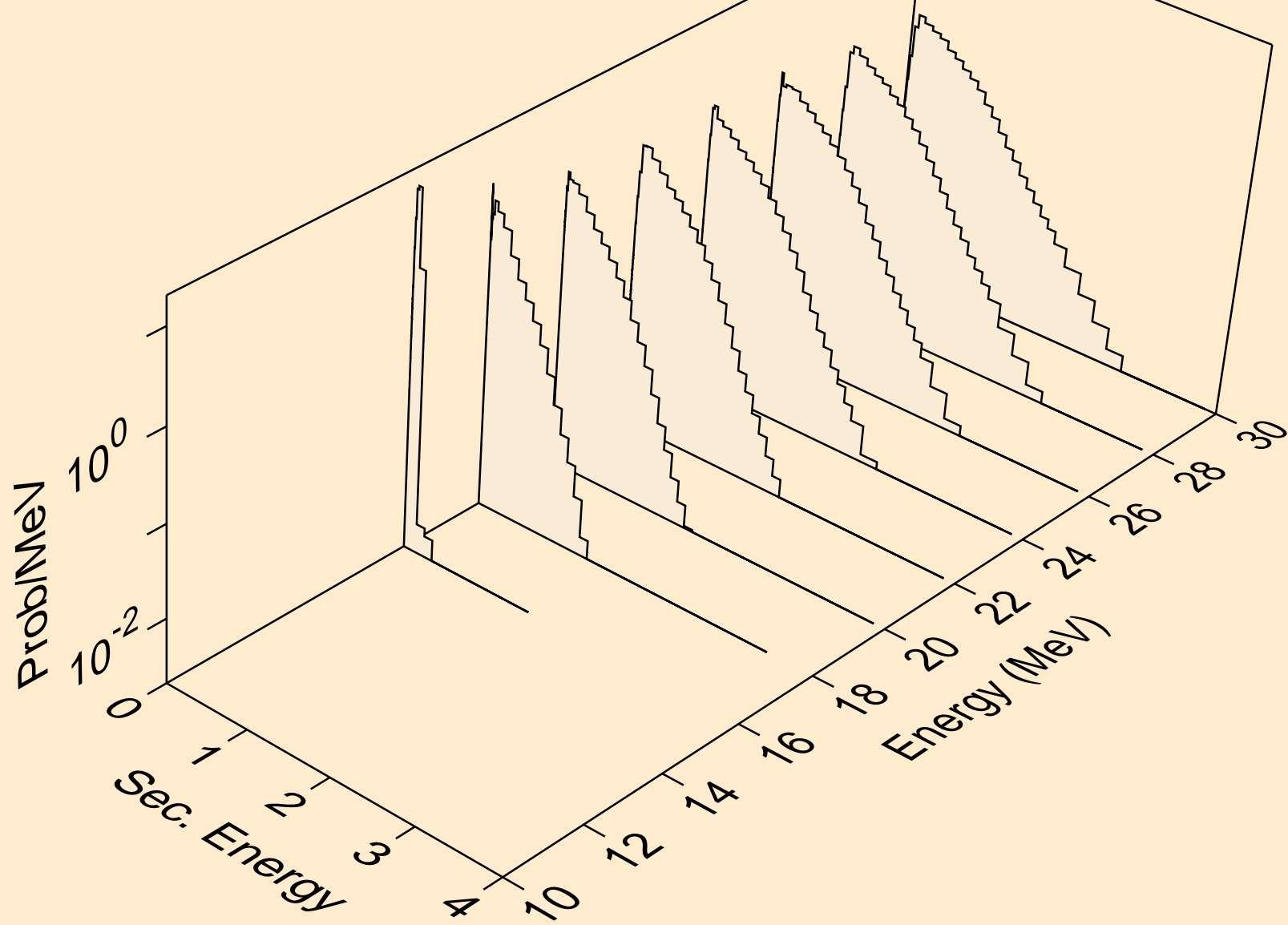
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



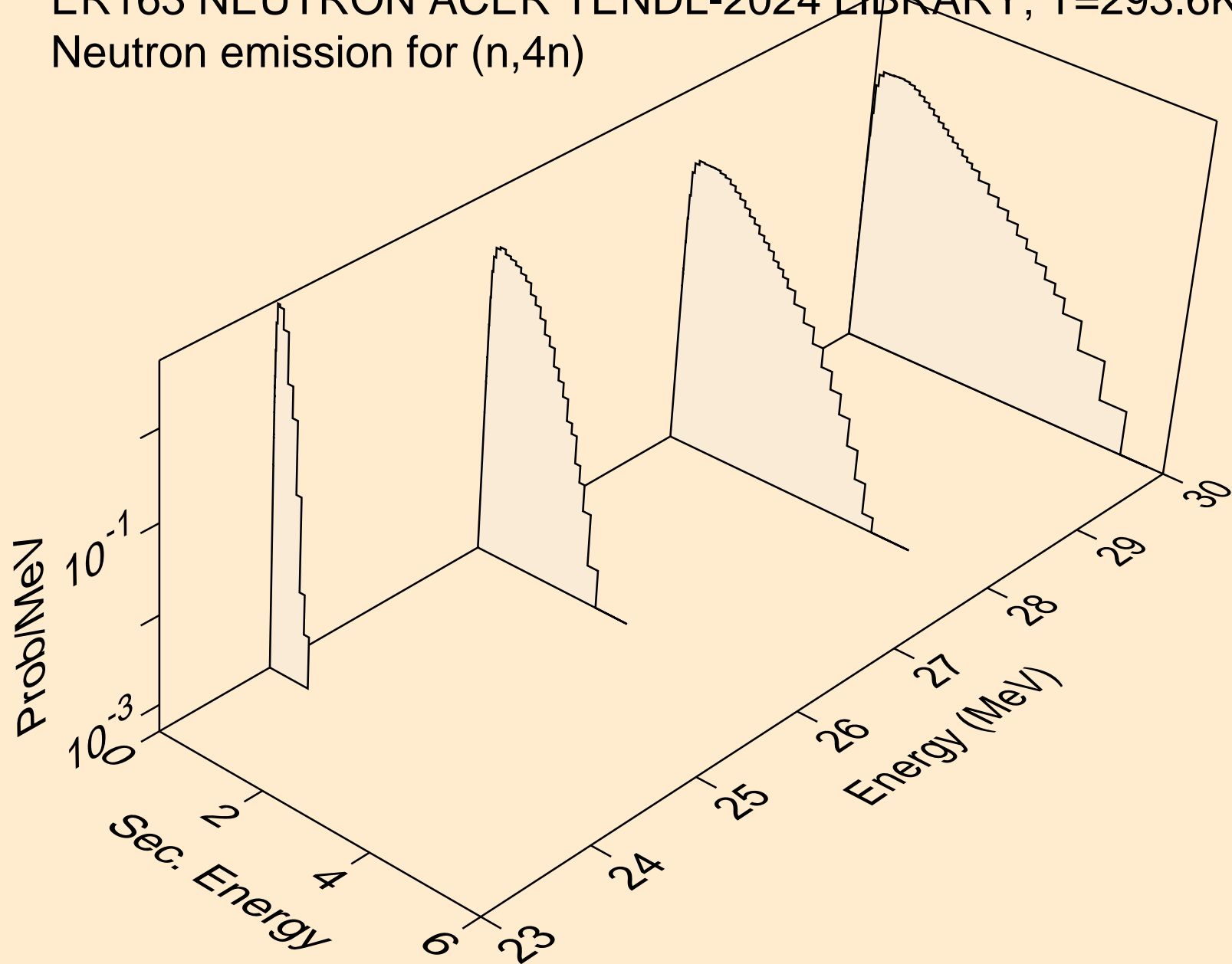
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



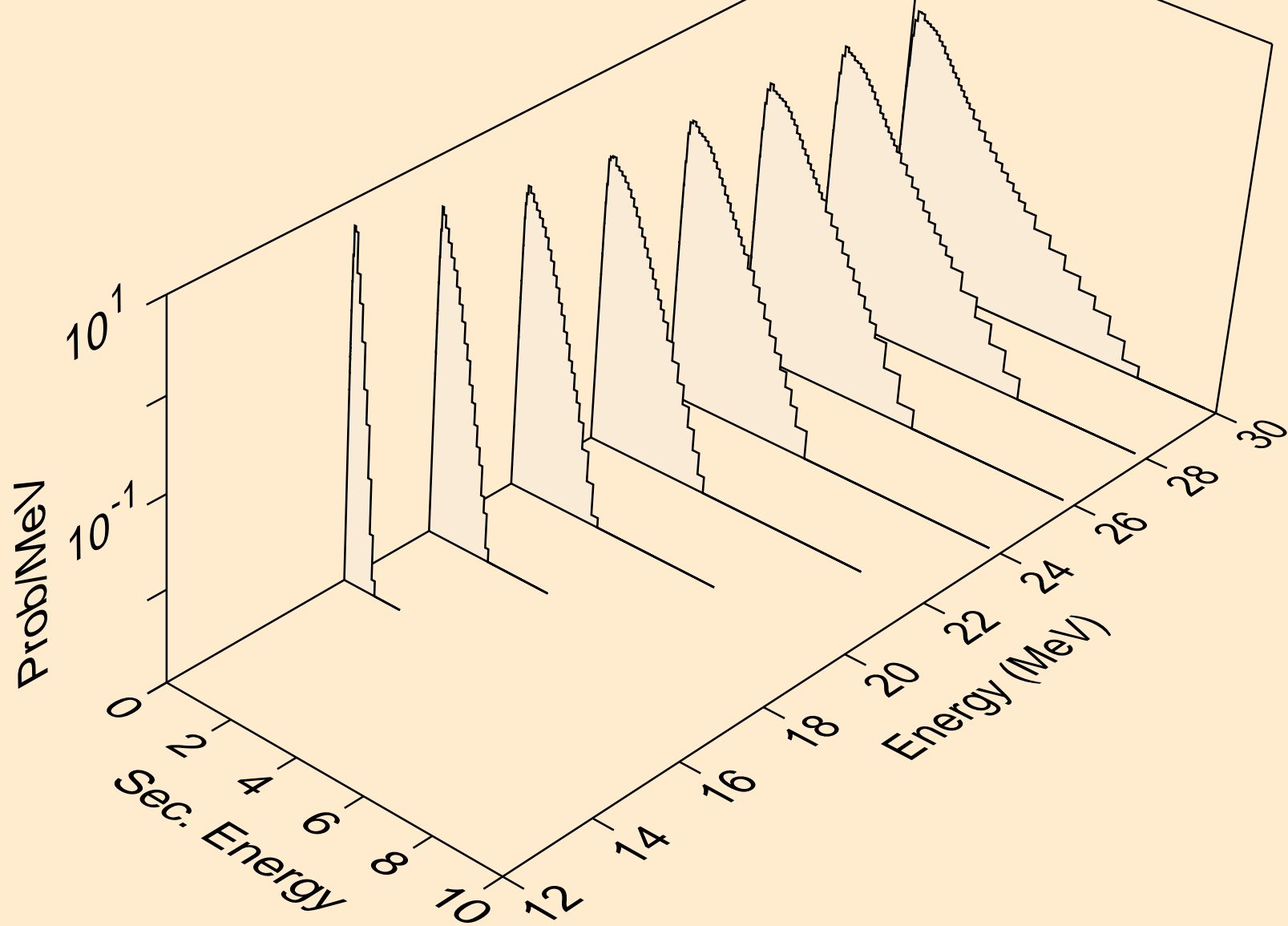
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



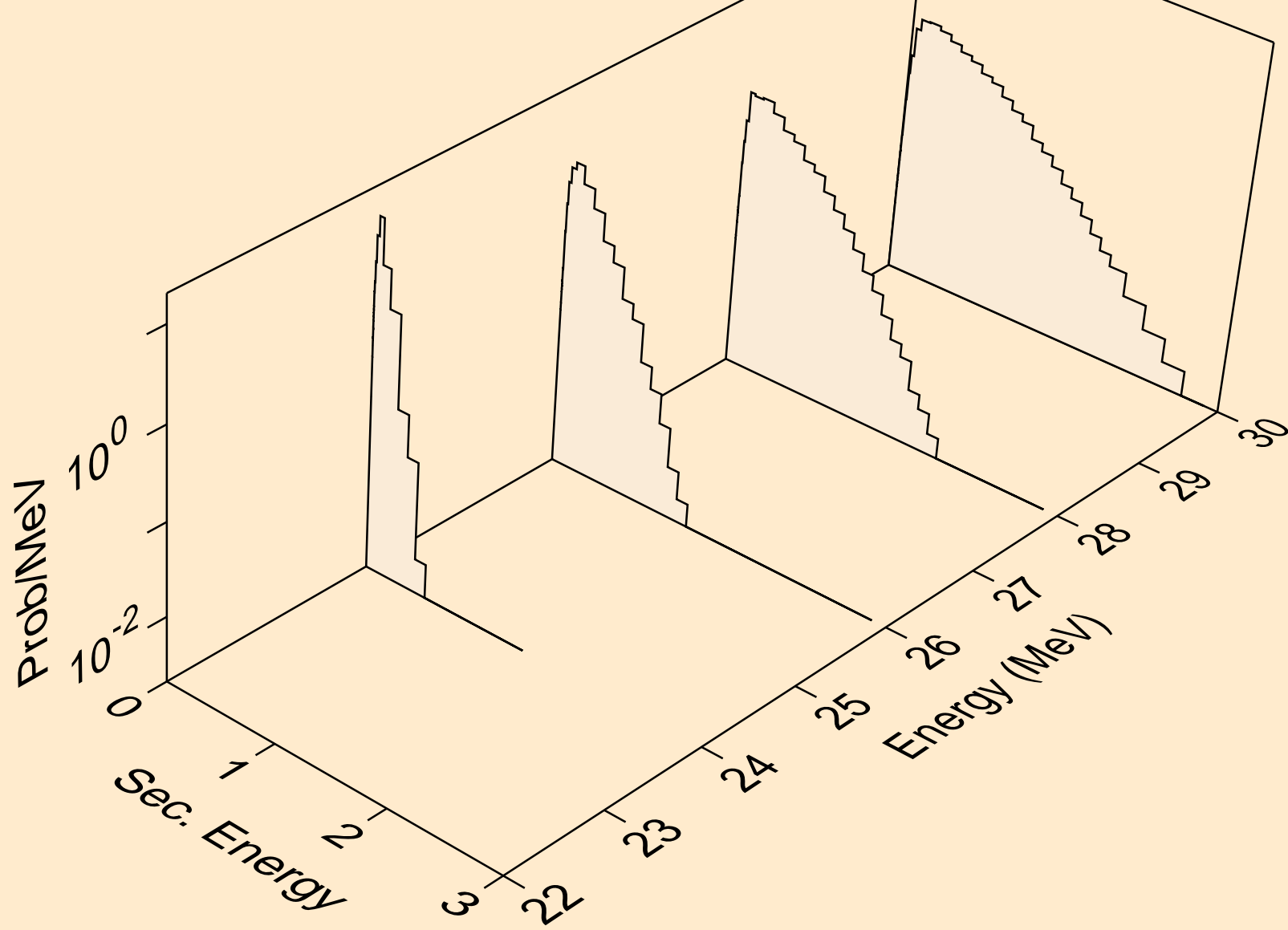
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



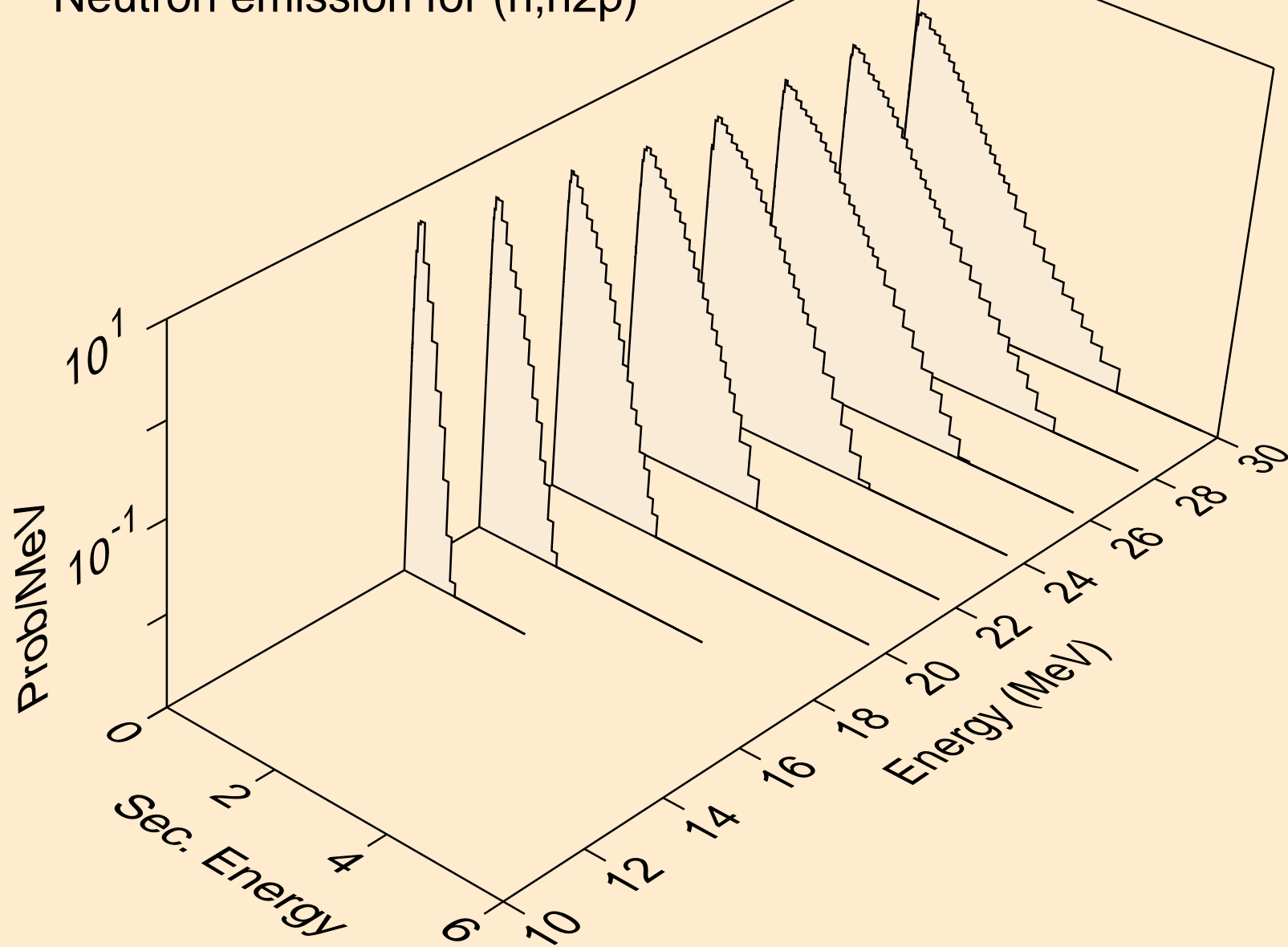
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



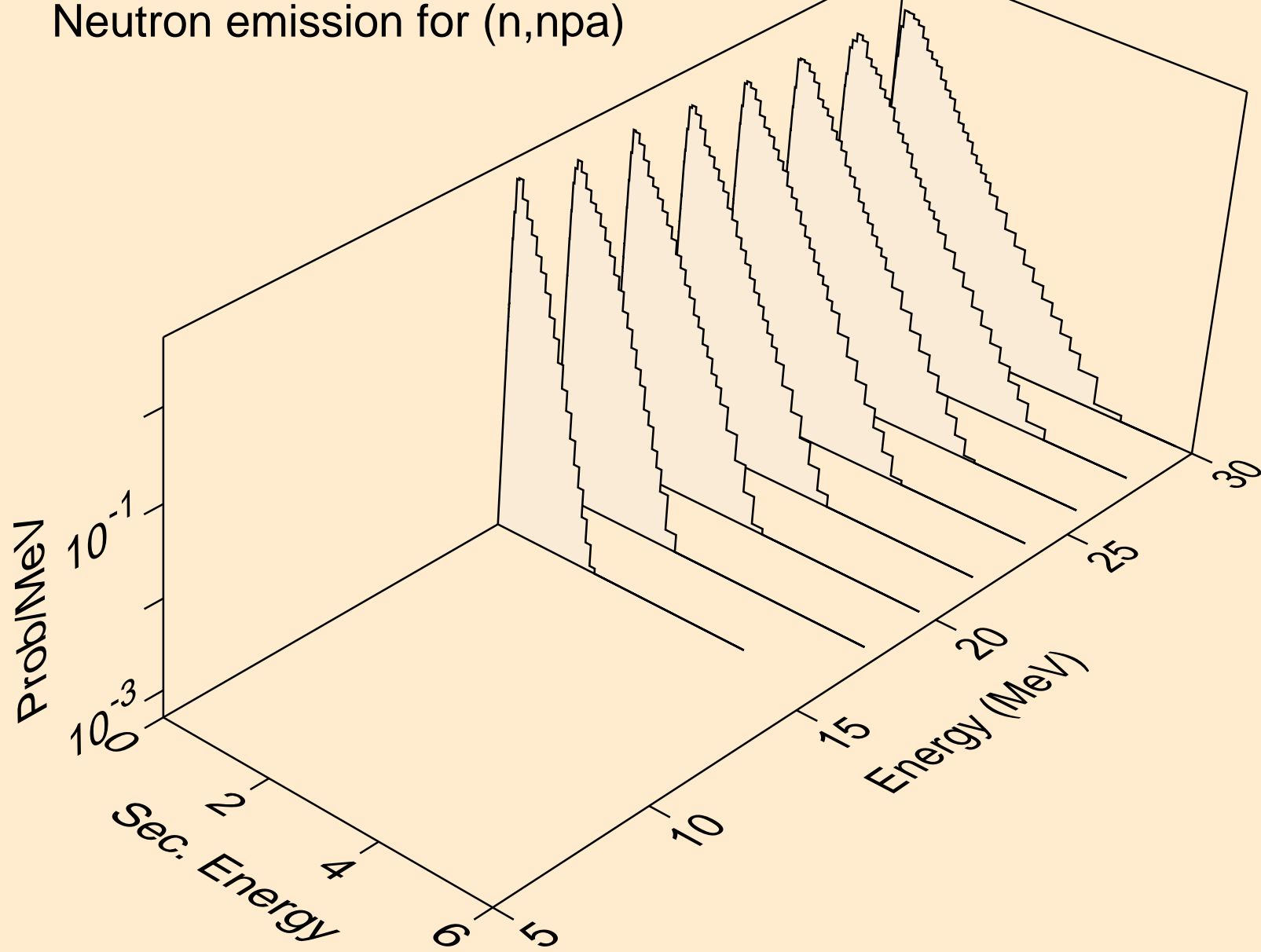
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3np)



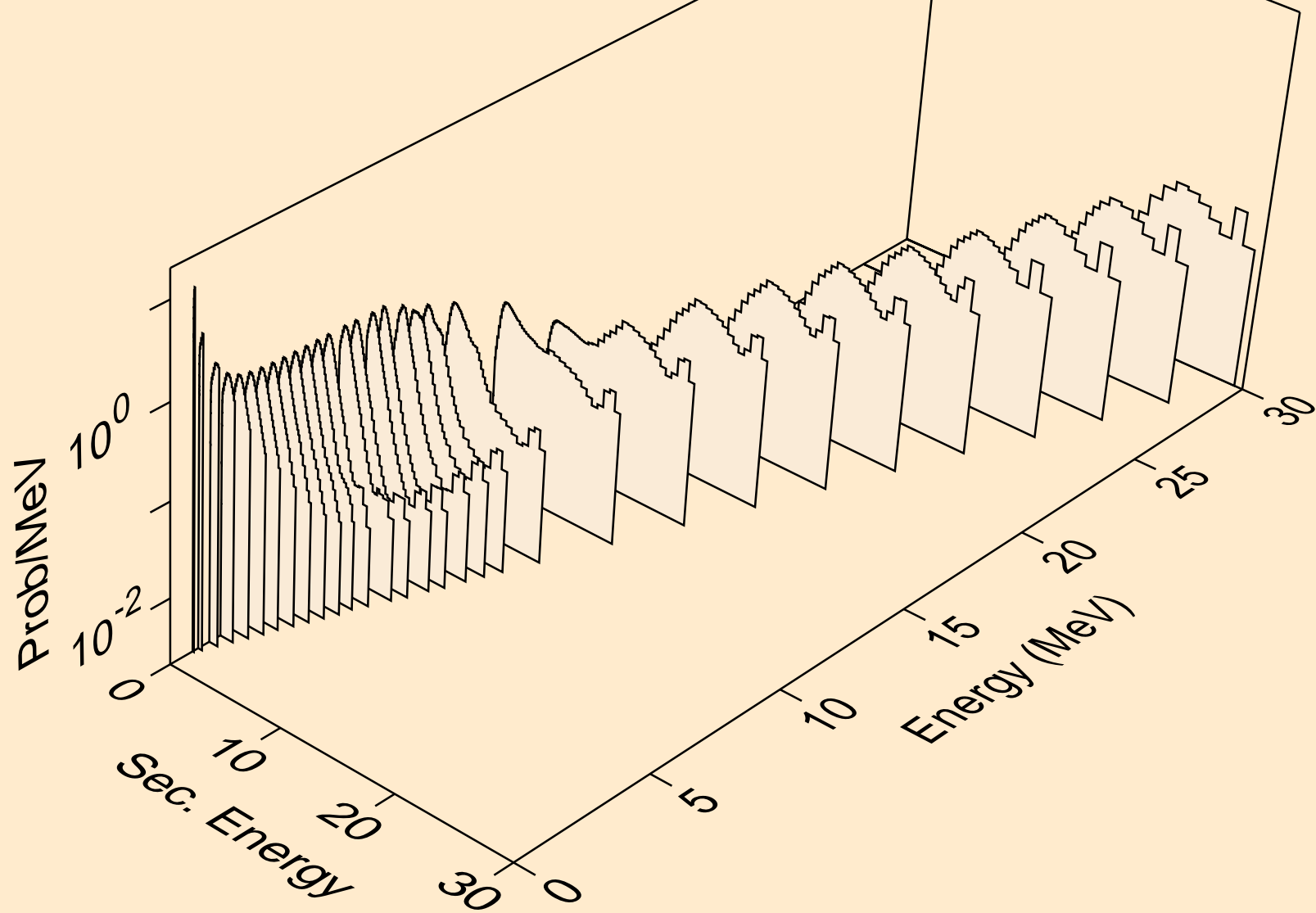
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n2p)



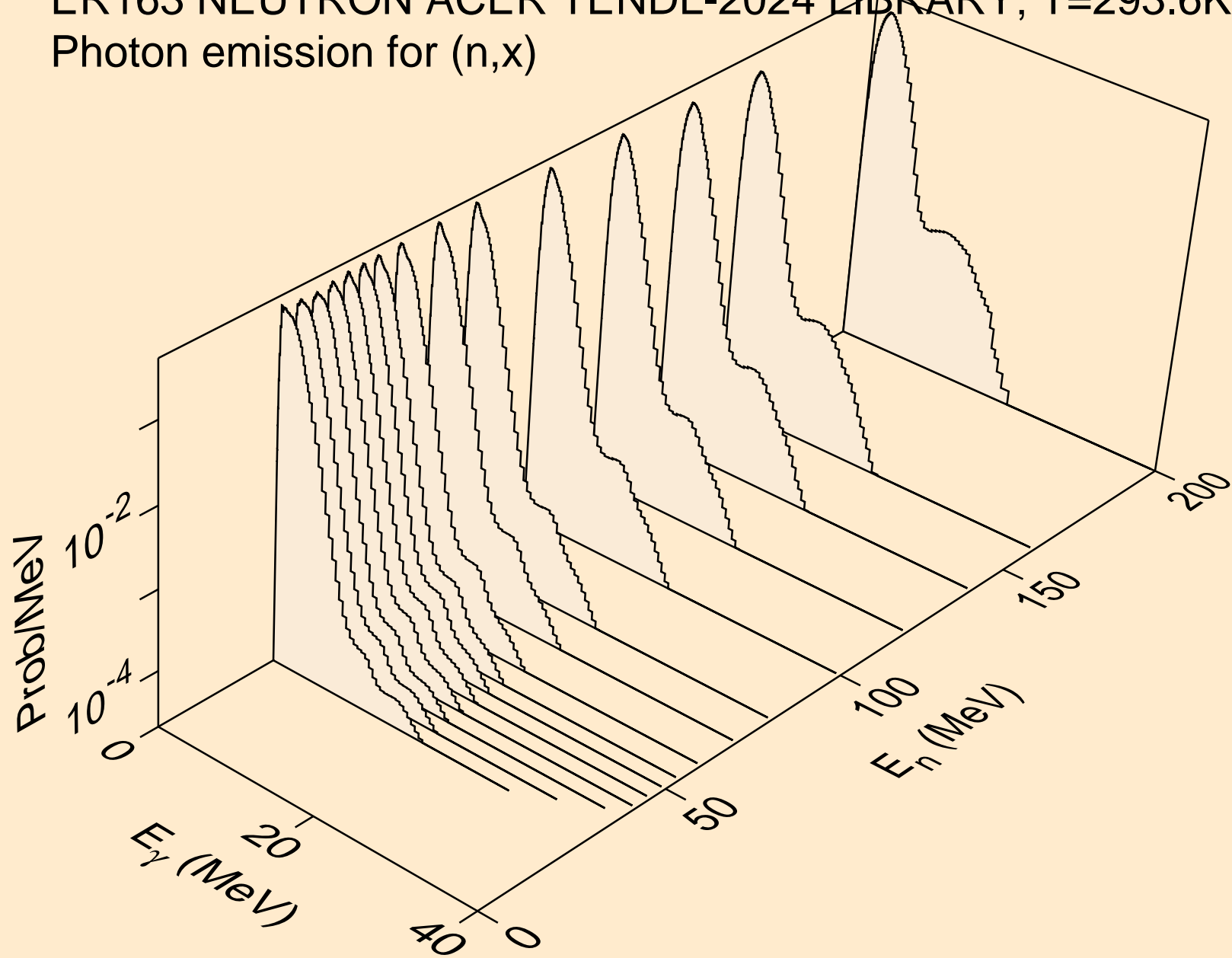
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,npa)



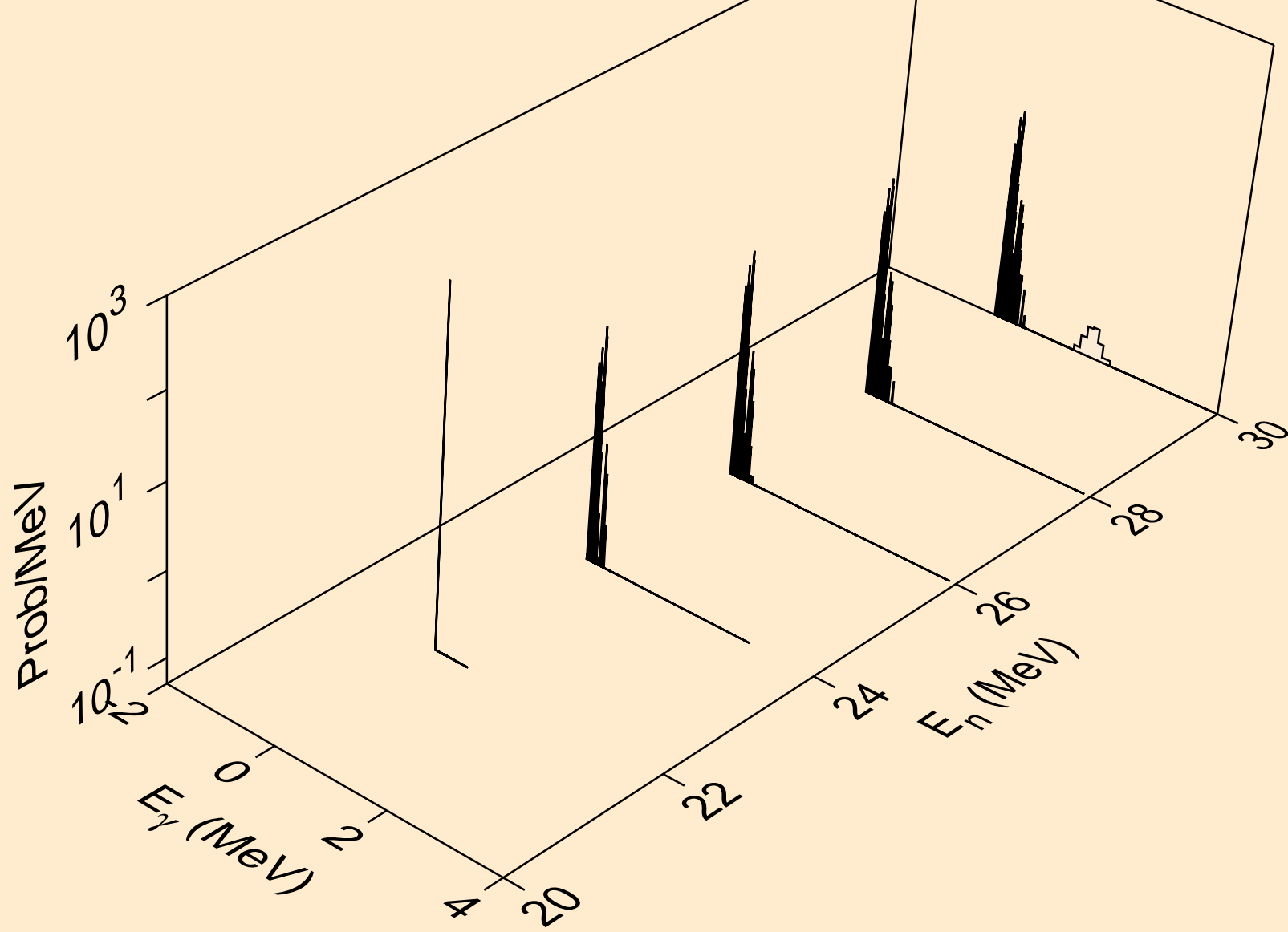
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



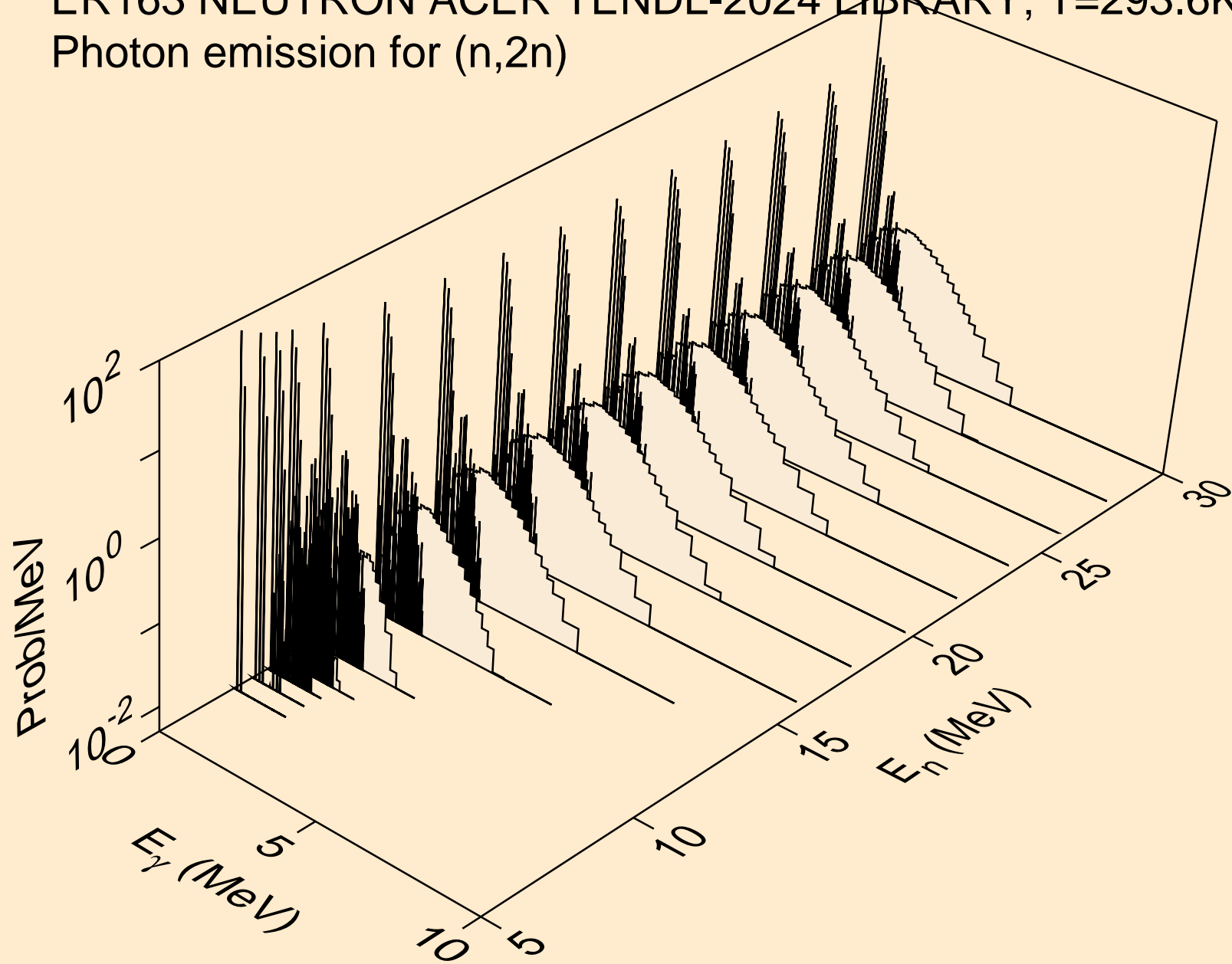
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,x)



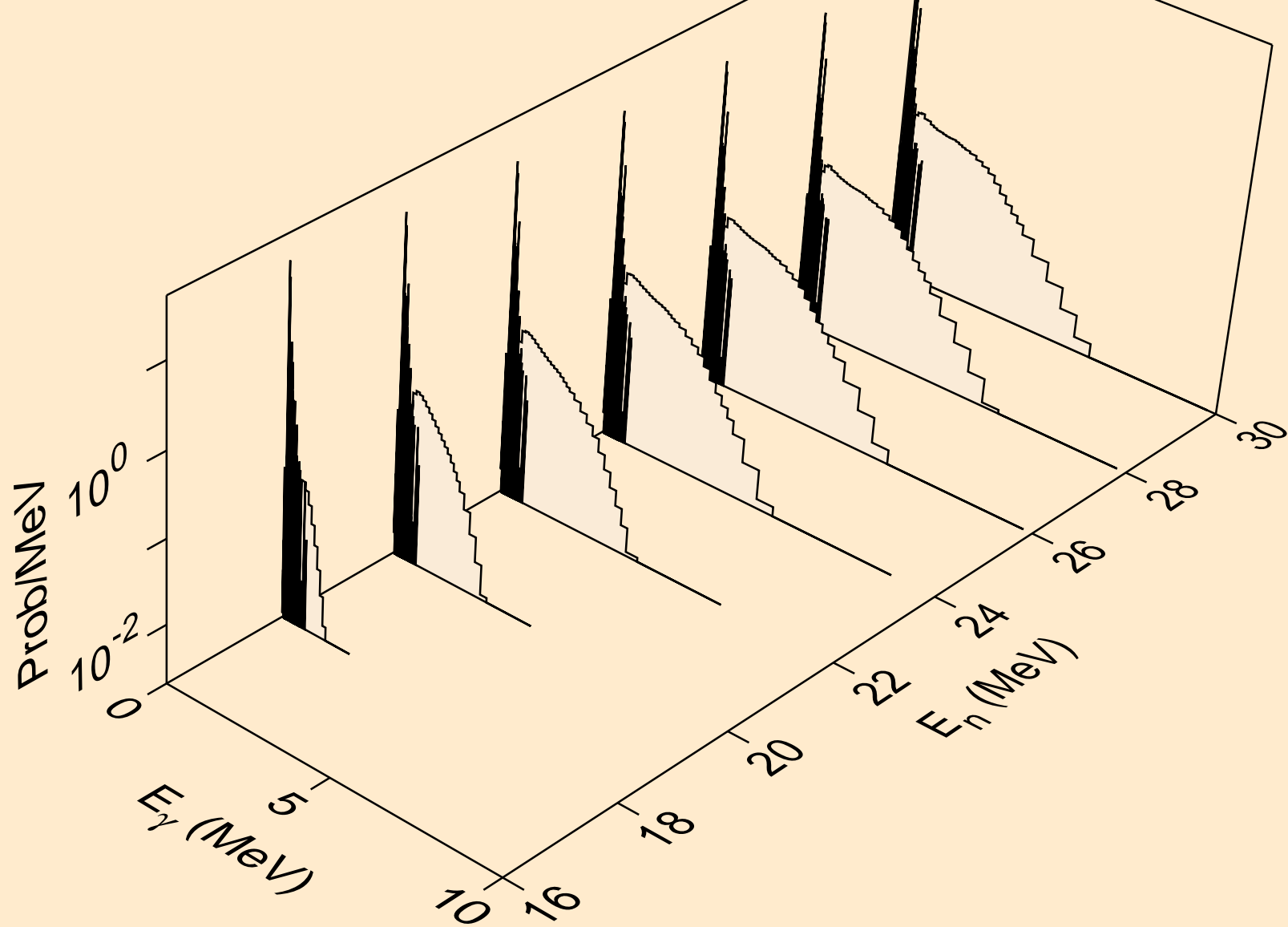
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Photon emission for (n,2nd)



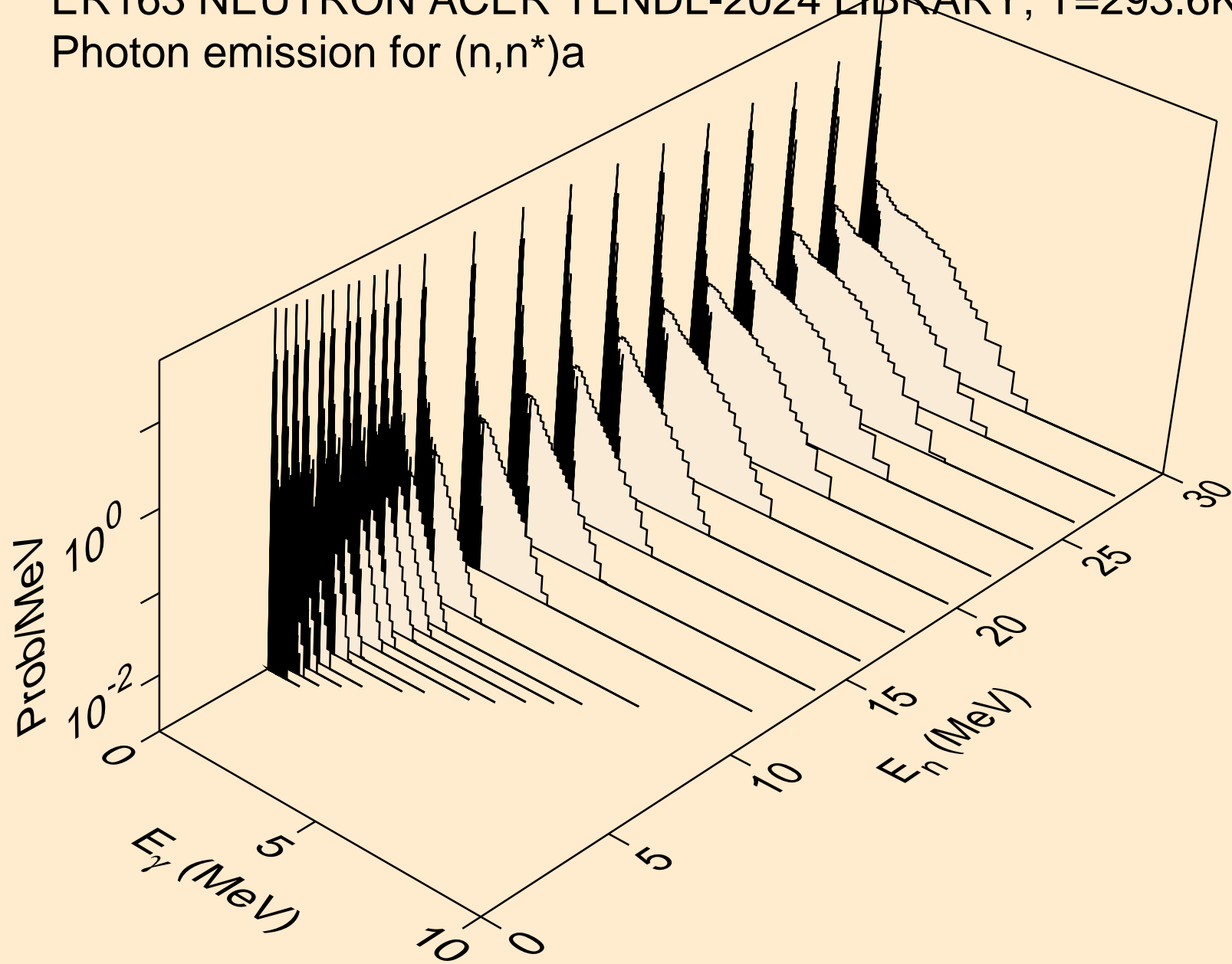
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Photon emission for (n,2n)



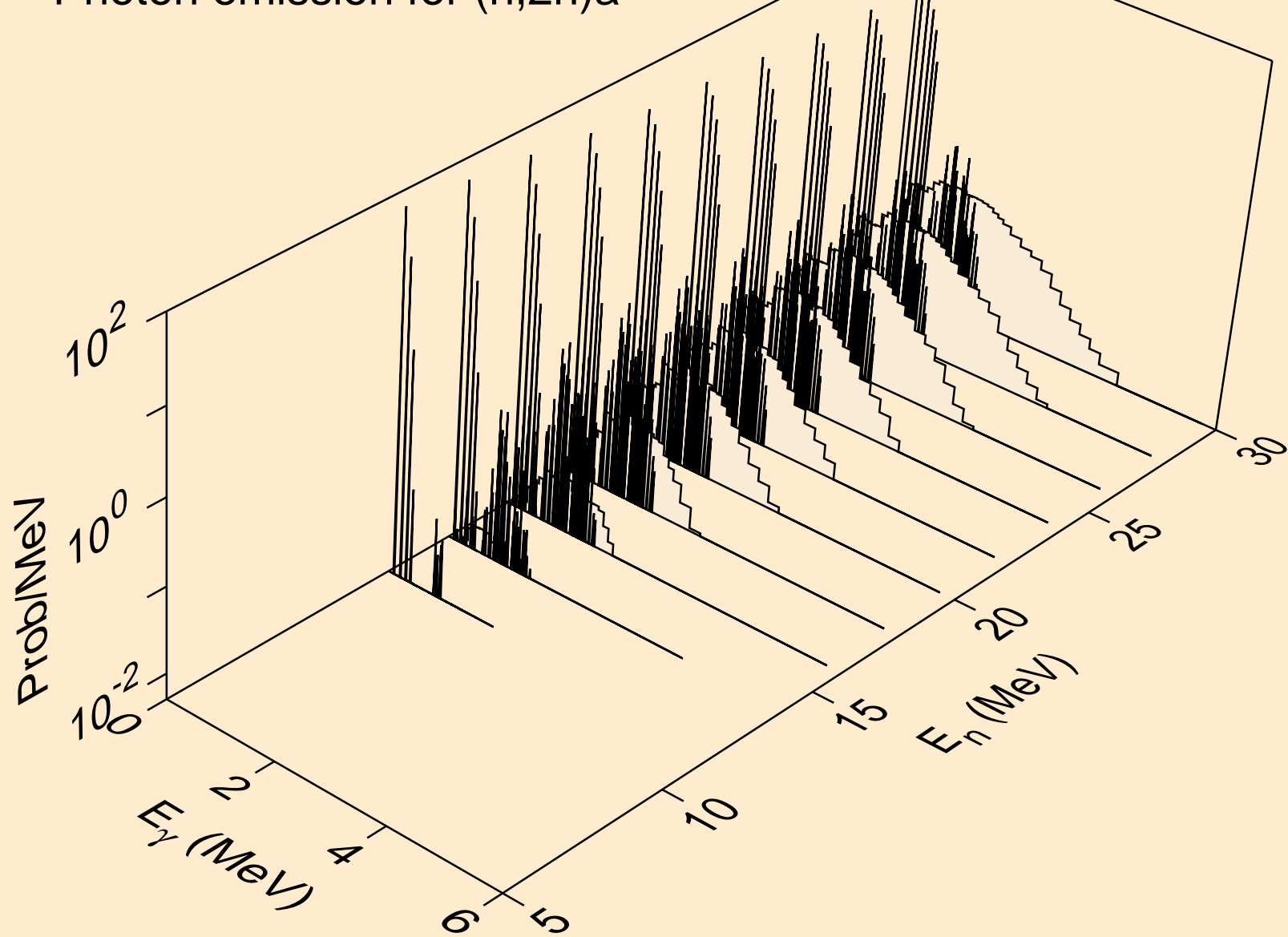
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Photon emission for (n,3n)



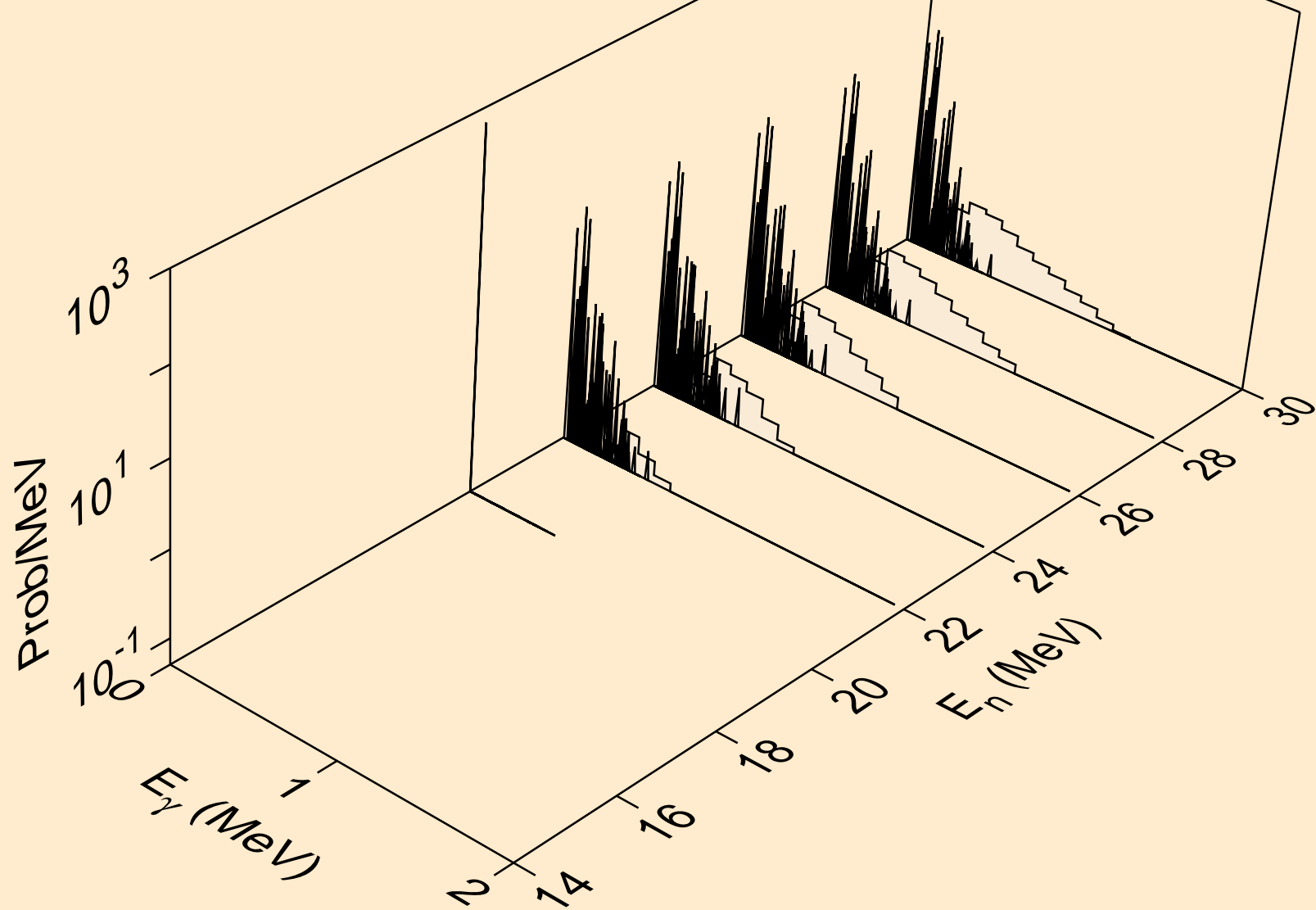
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Photon emission for (n,n\*)a



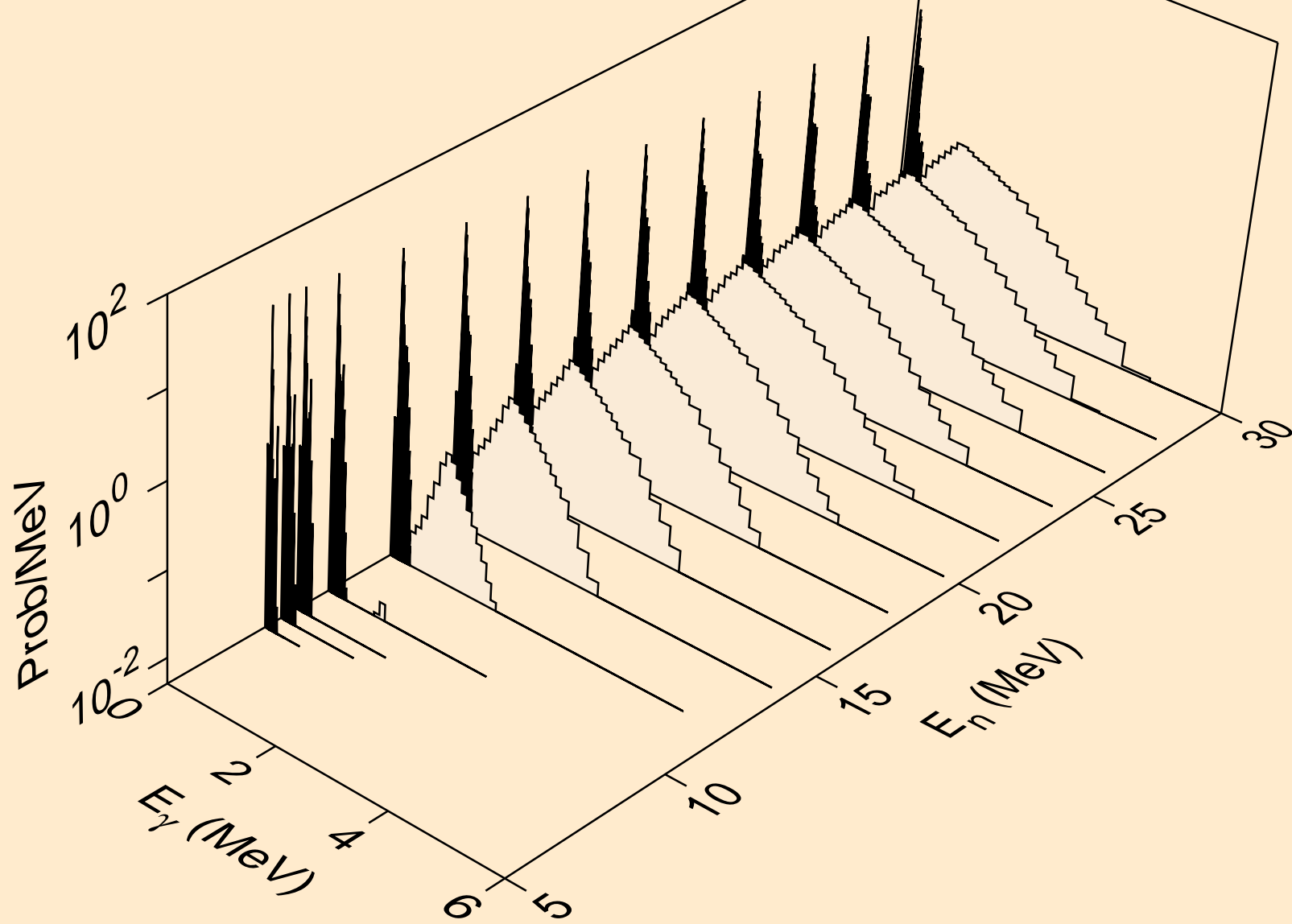
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Photon emission for (n,2n)a



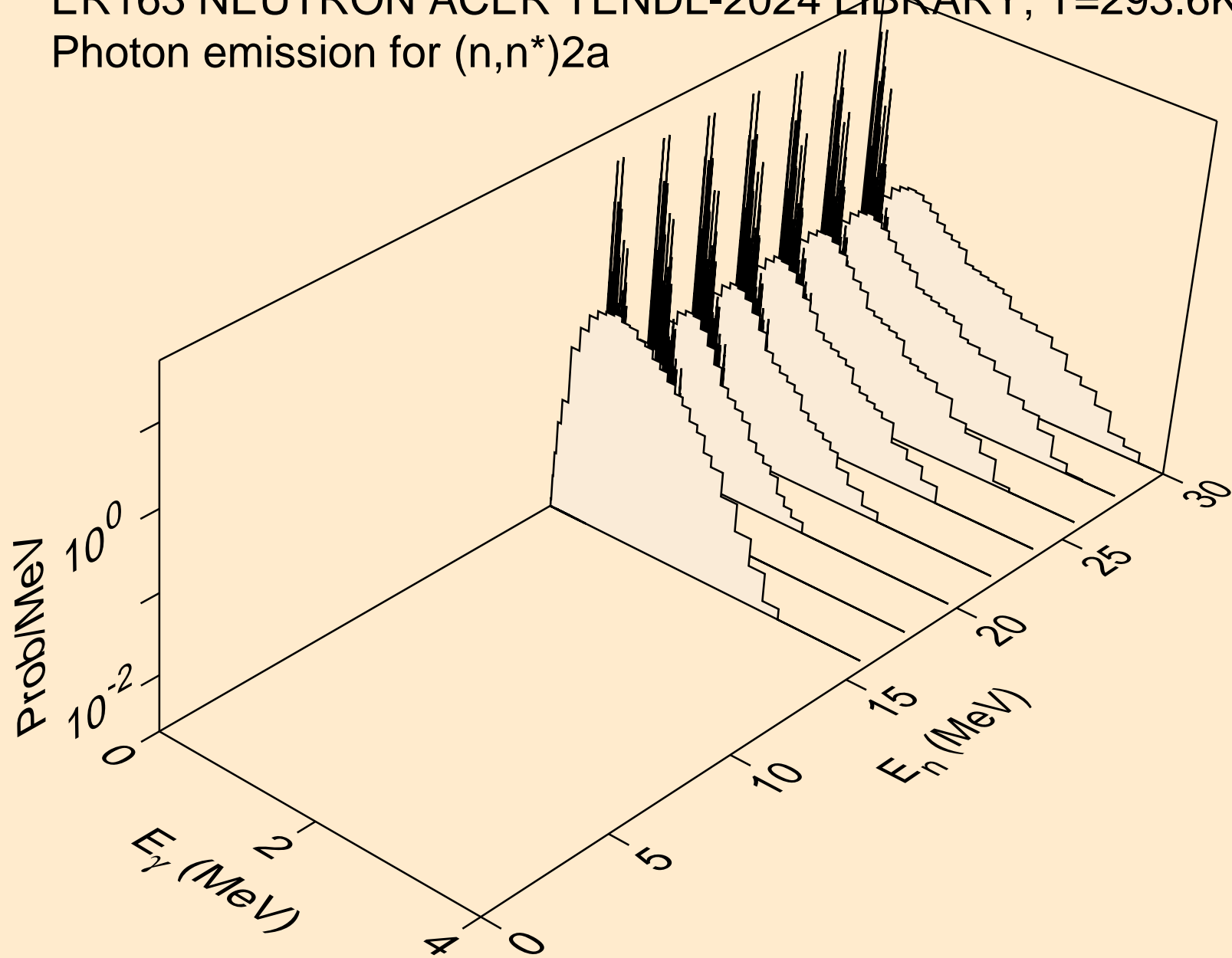
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Photon emission for (n,3n)a



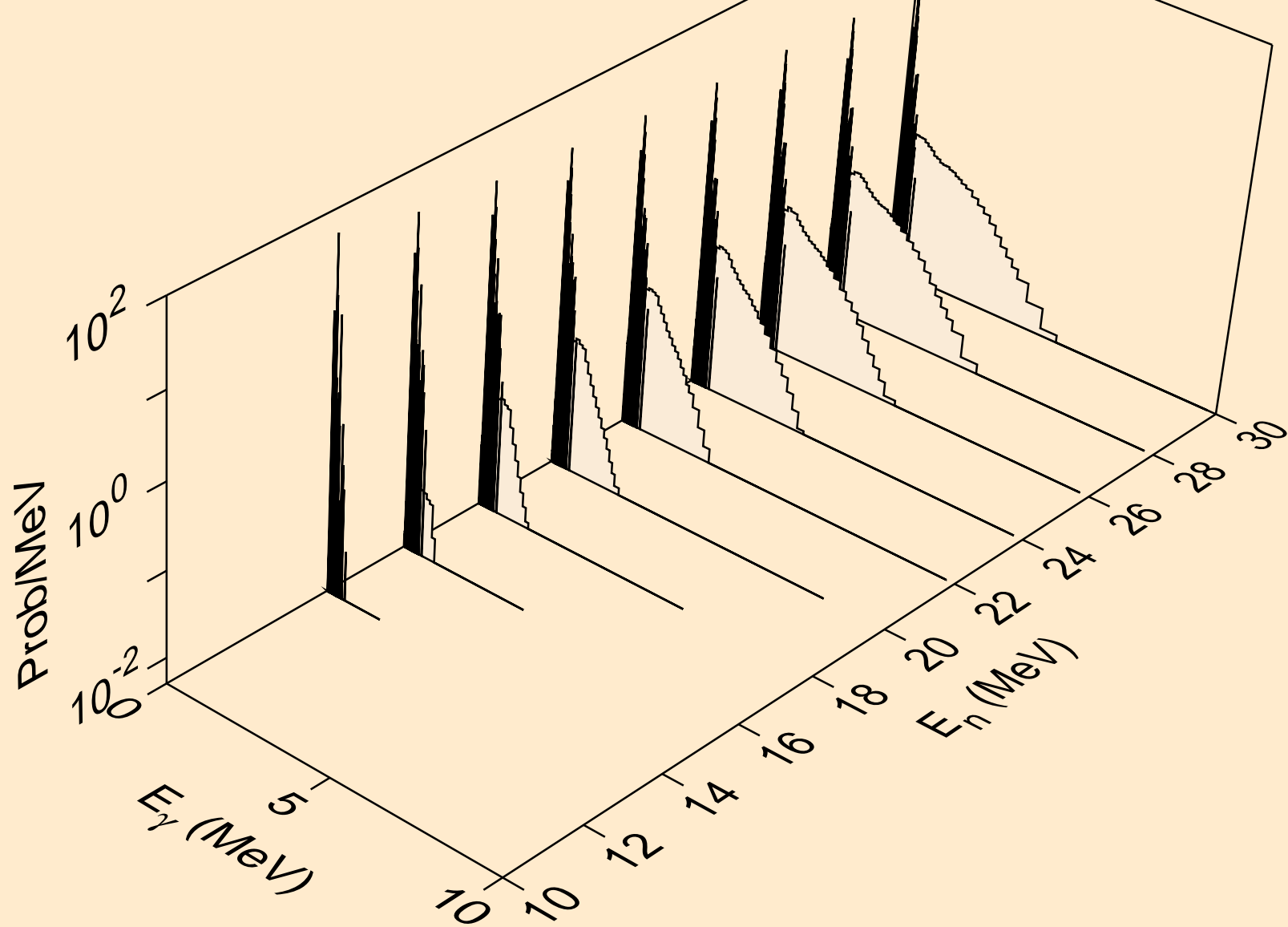
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



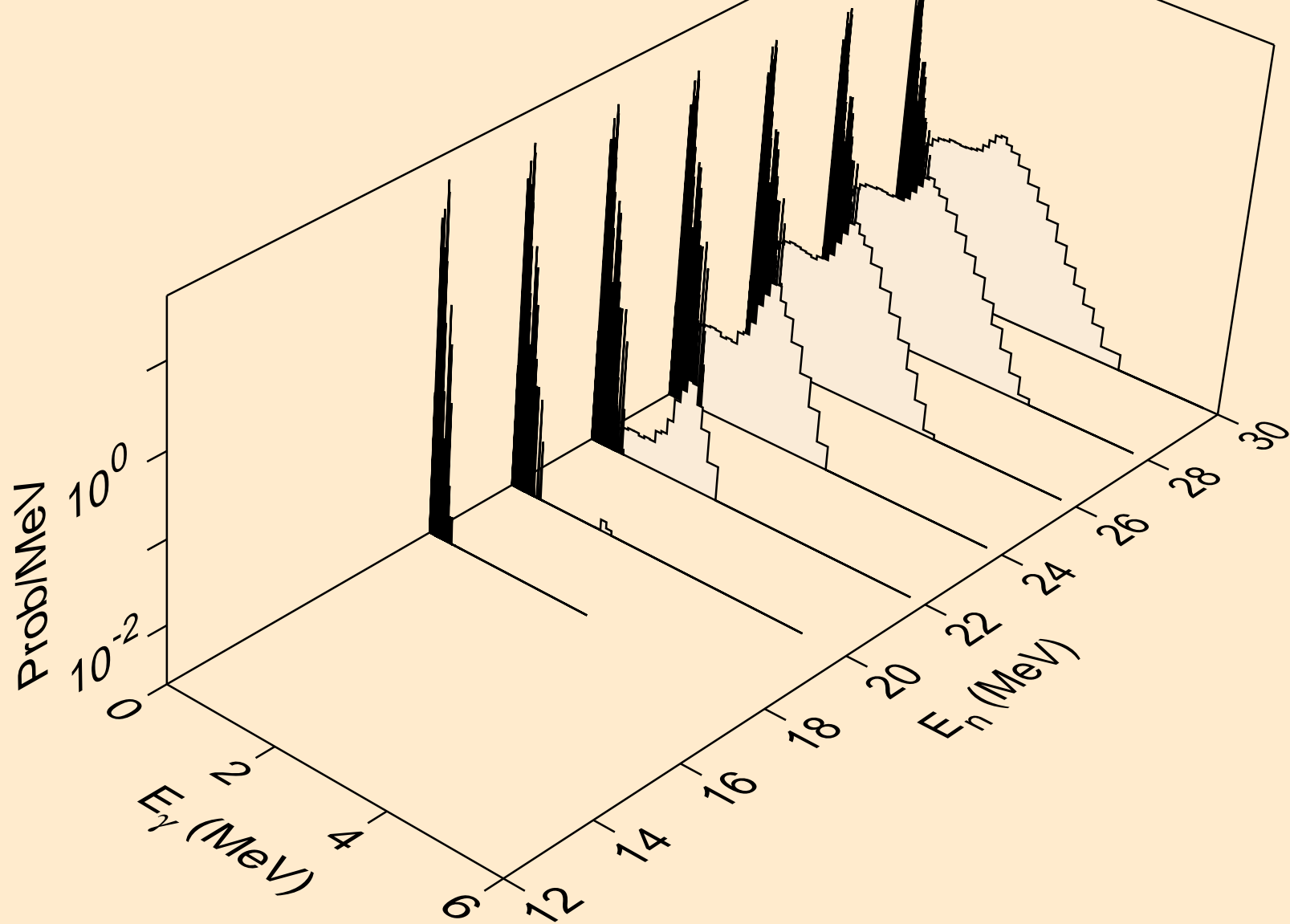
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Photon emission for (n,n\*)2a



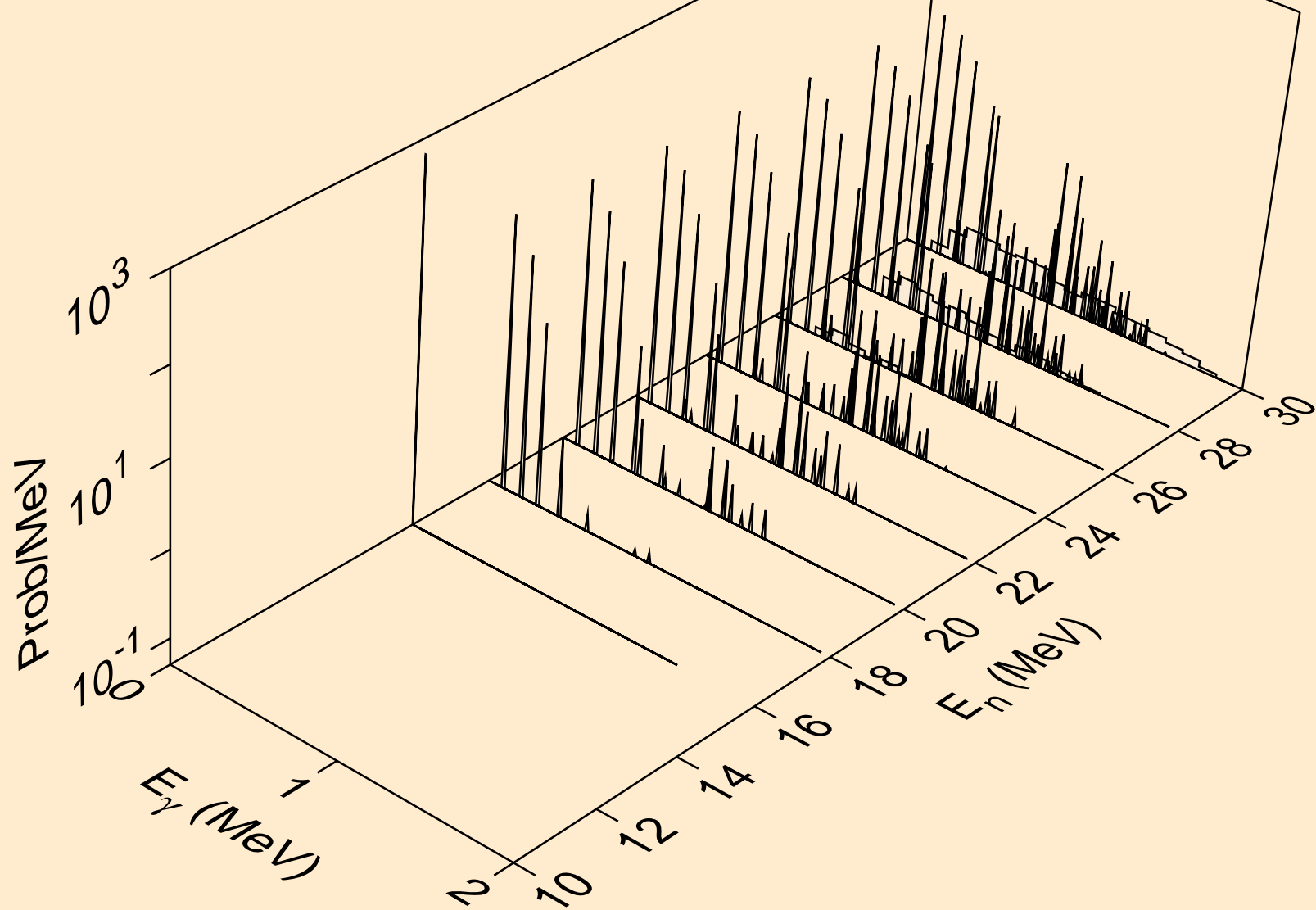
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d



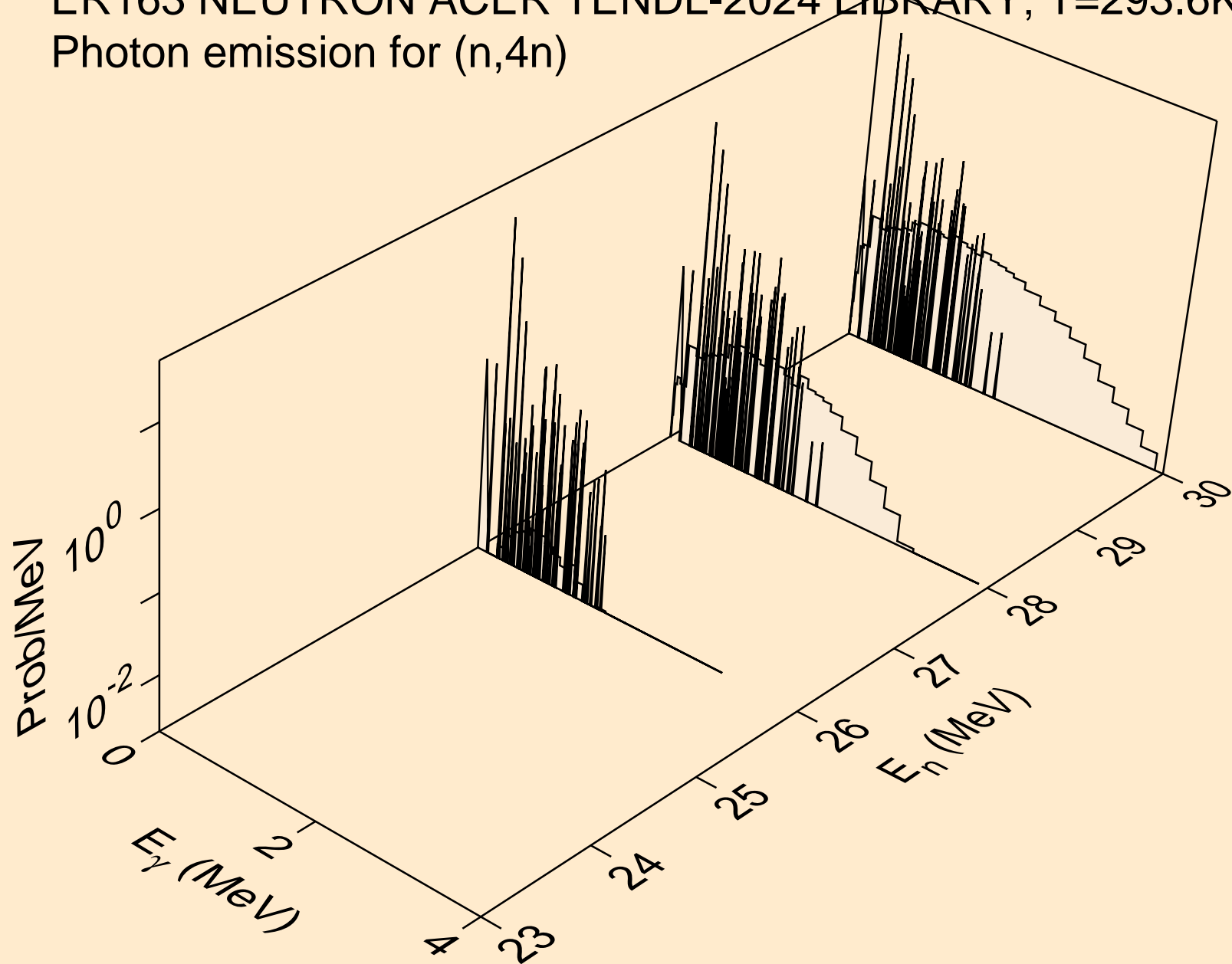
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Photon emission for (n,n\*)t



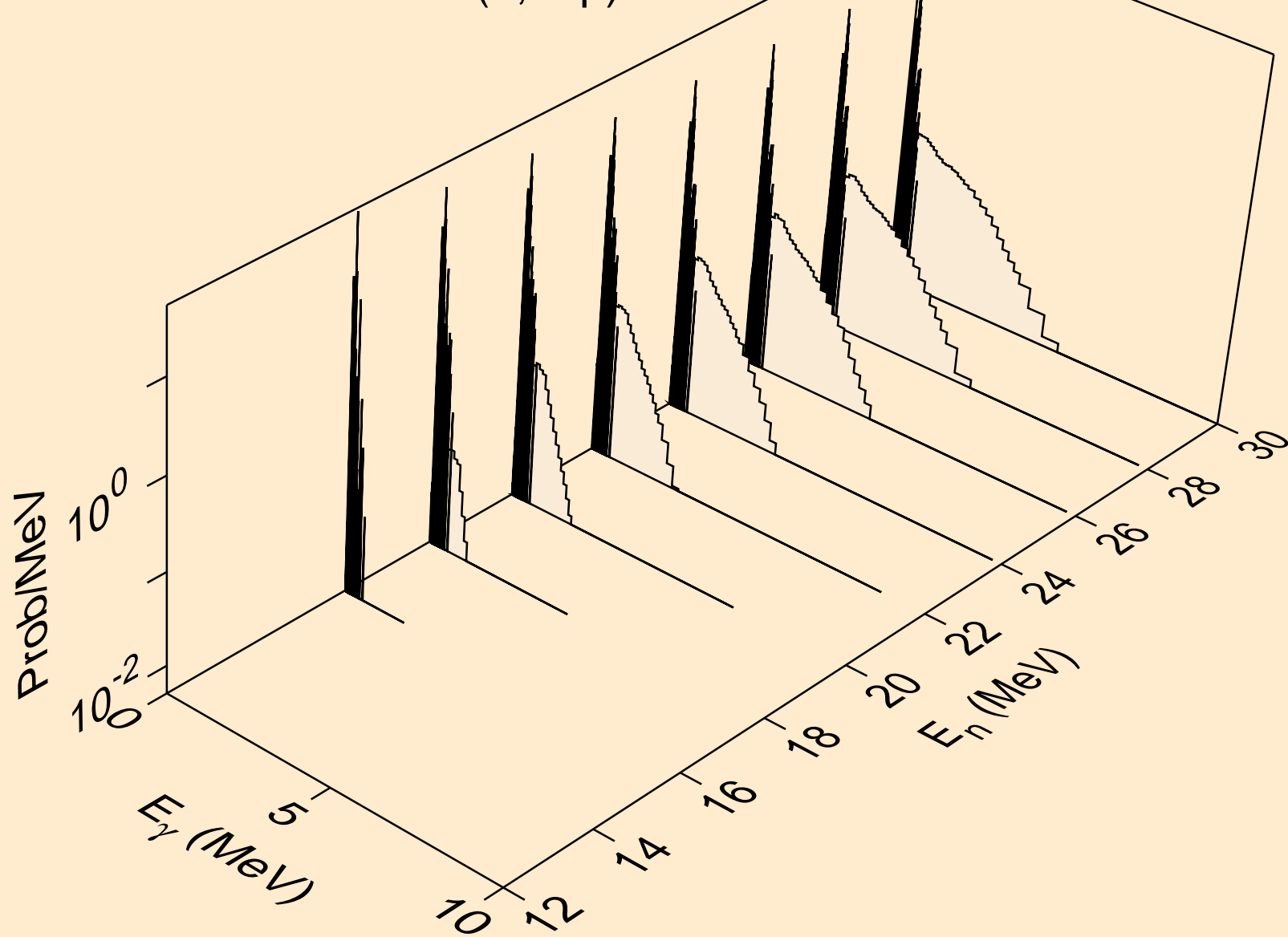
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



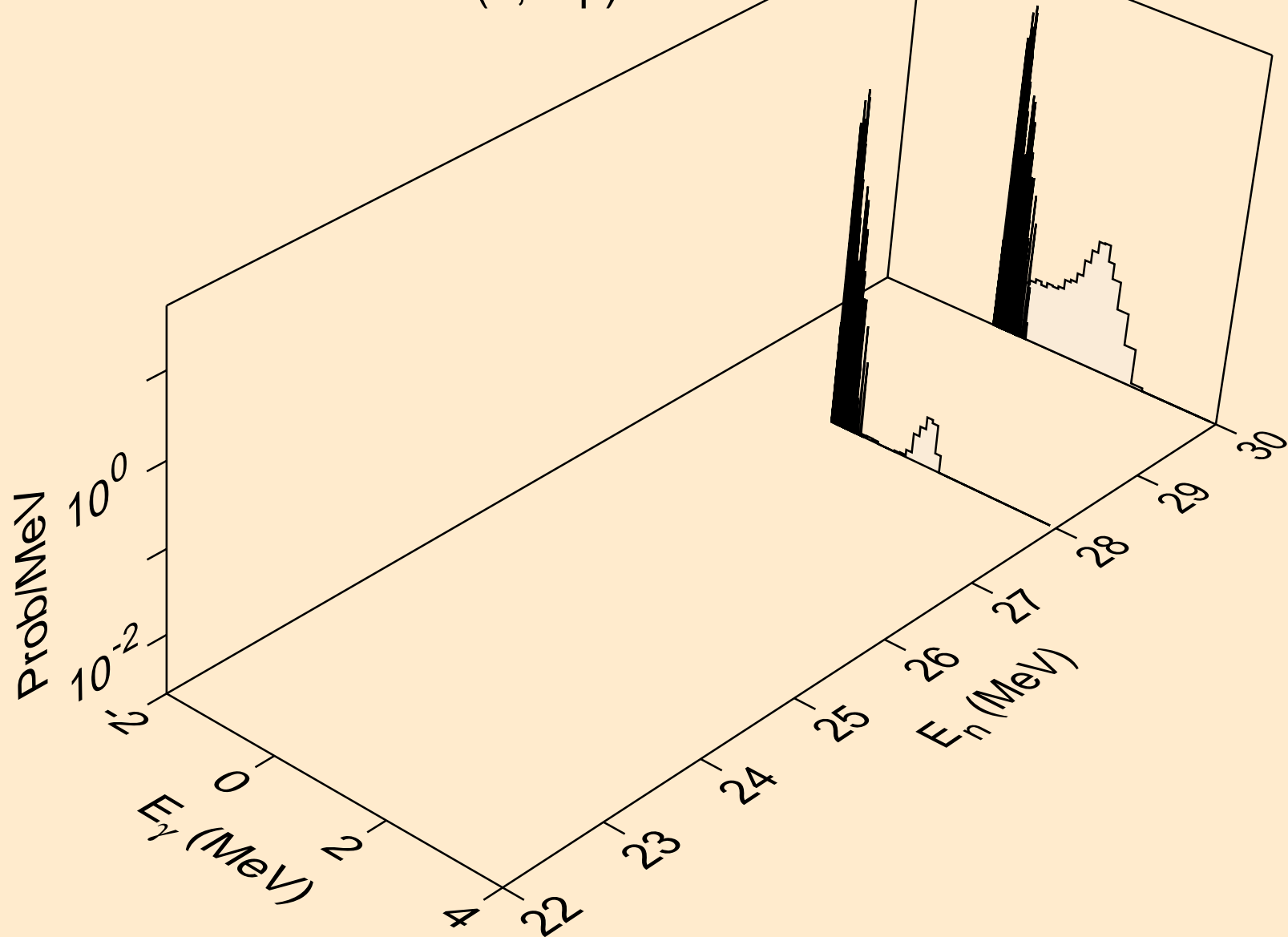
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,4n)



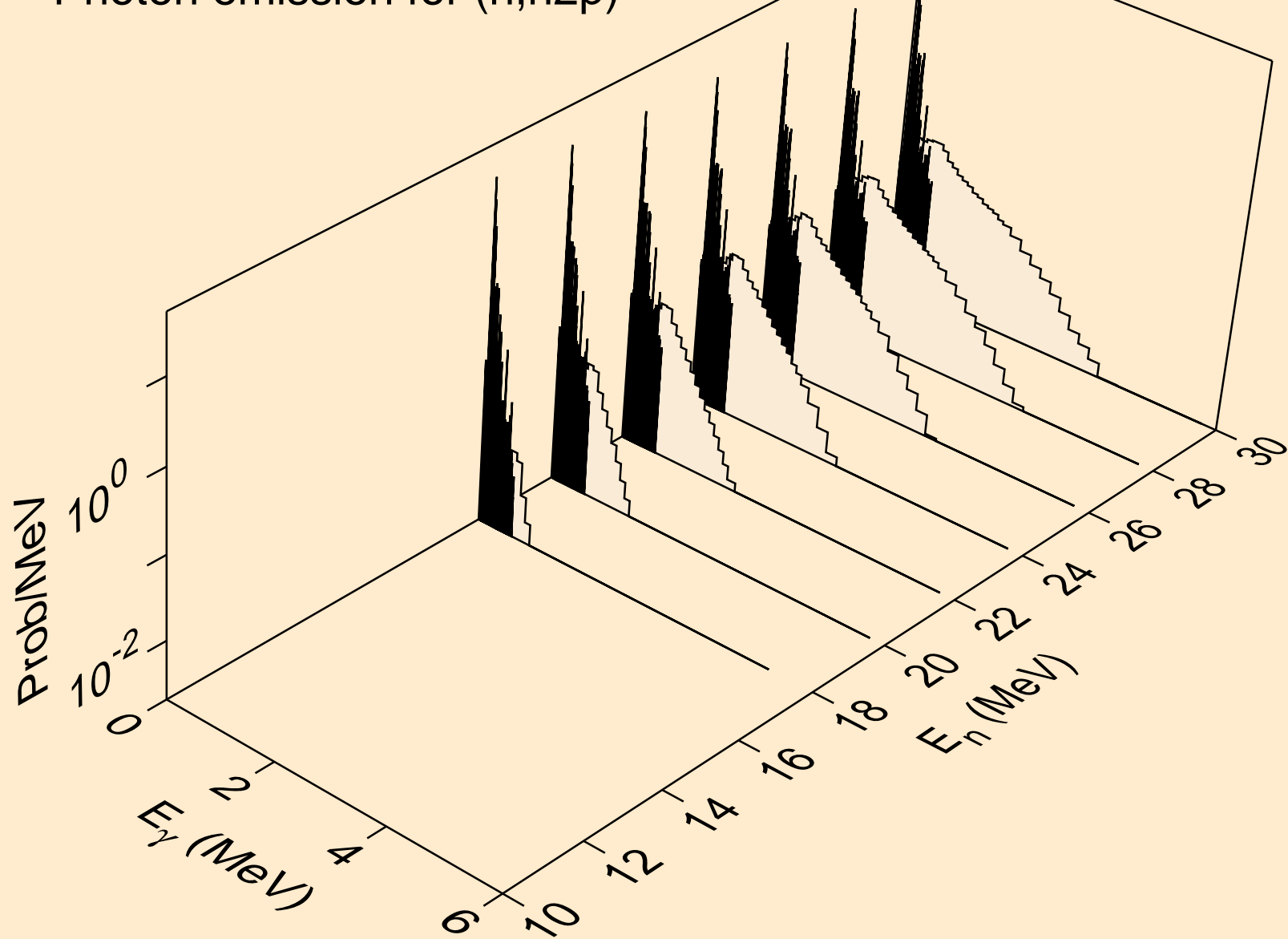
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Photon emission for (n,2np)



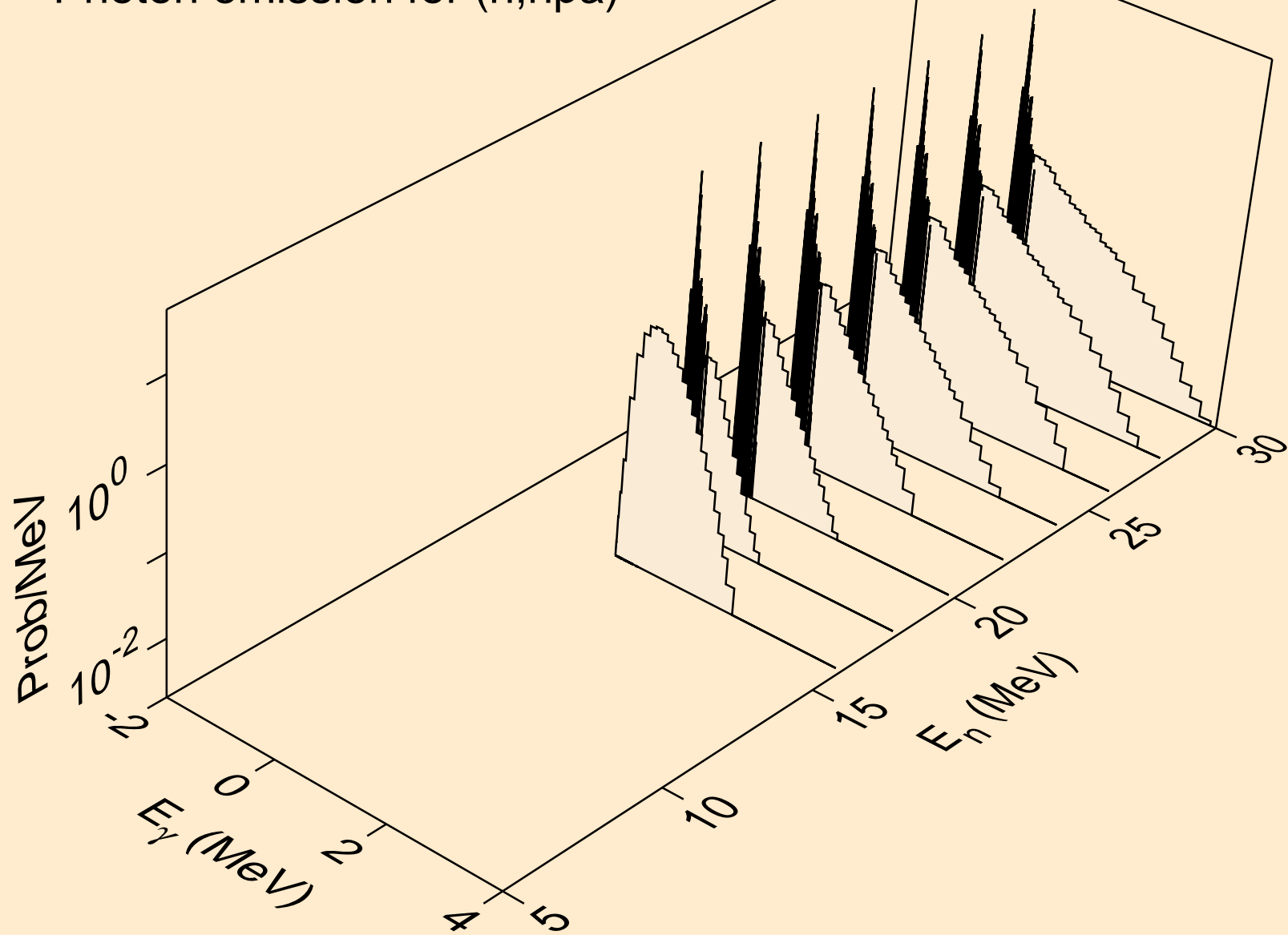
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Photon emission for (n,3np)



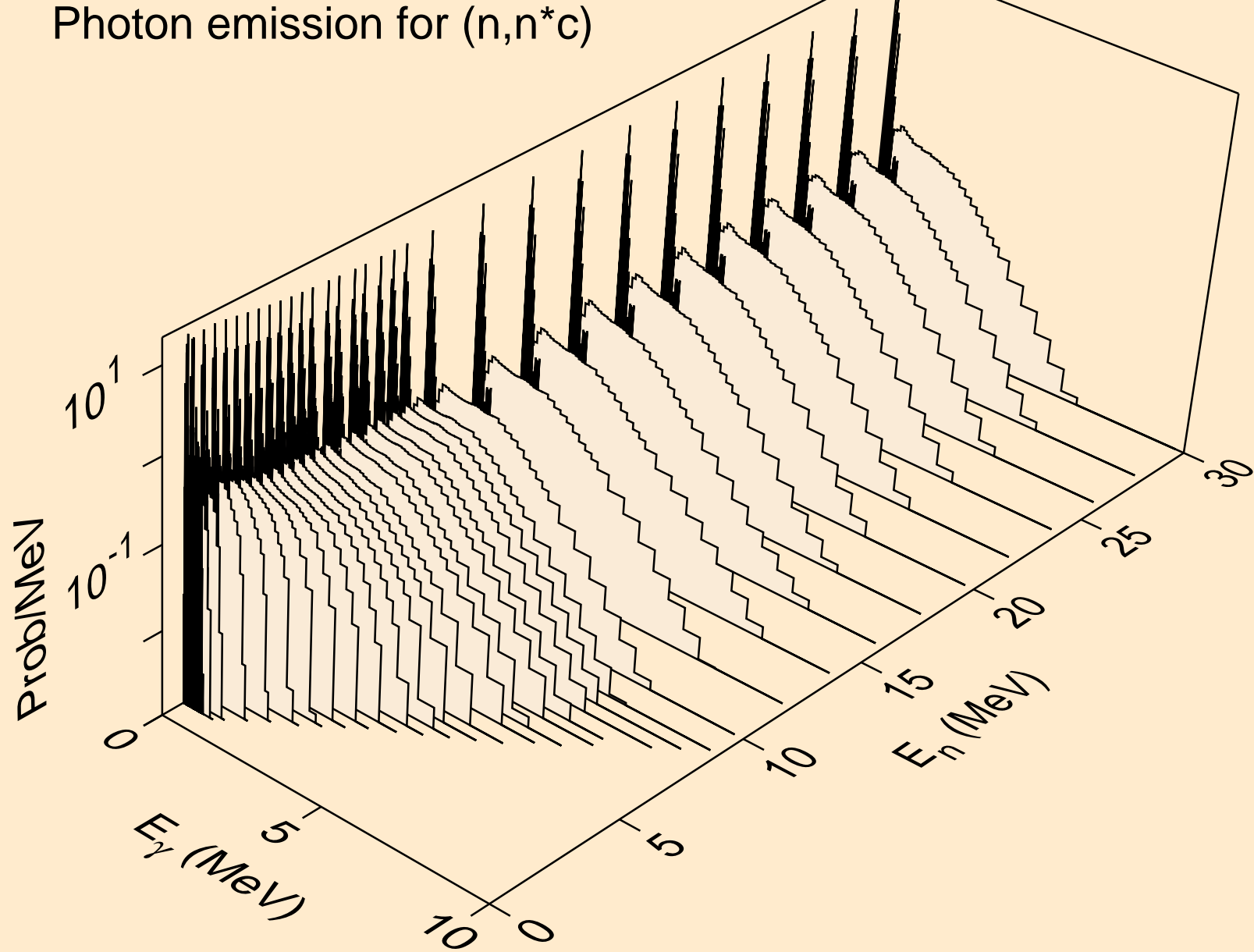
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Photon emission for (n,n2p)



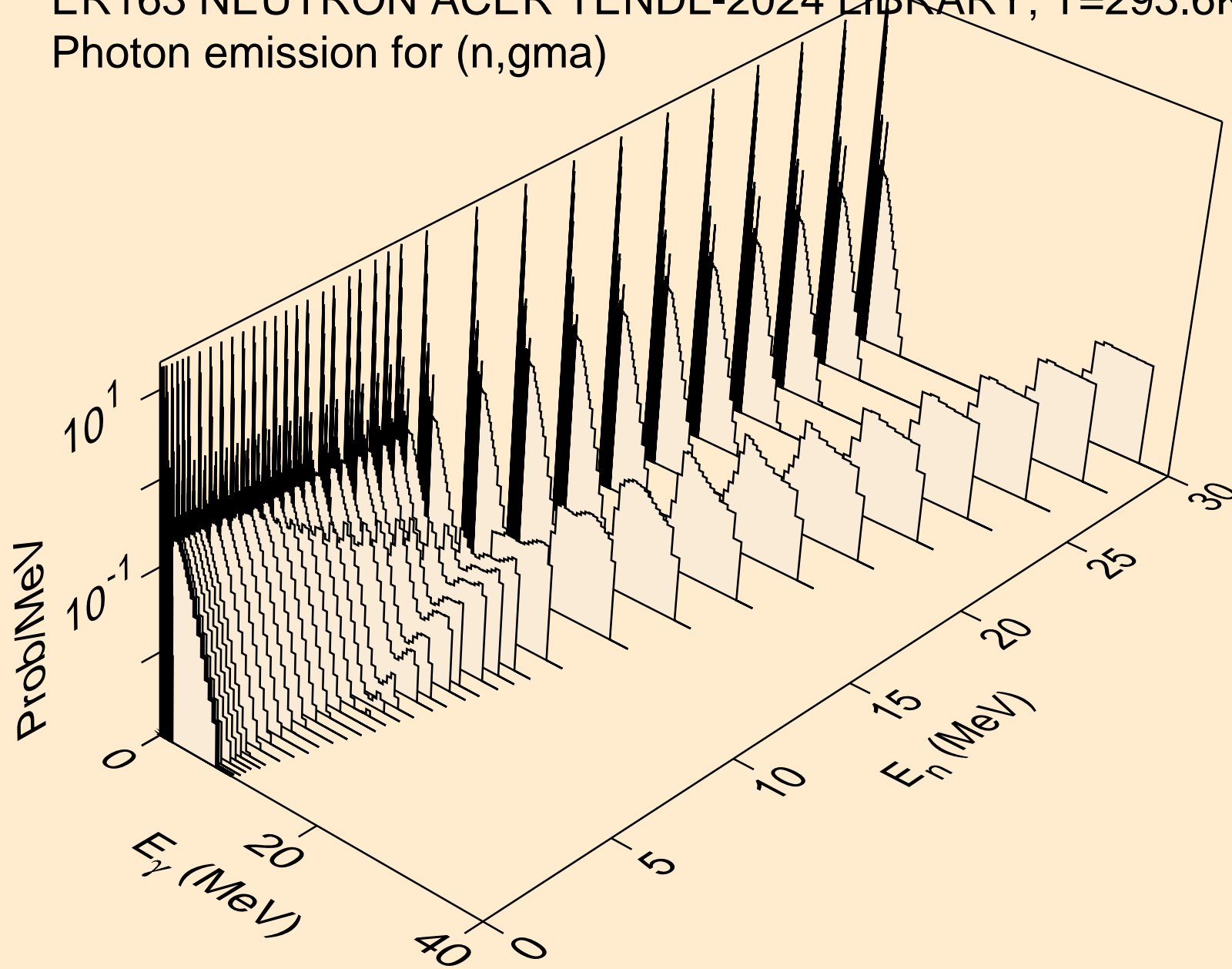
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Photon emission for (n,npa)



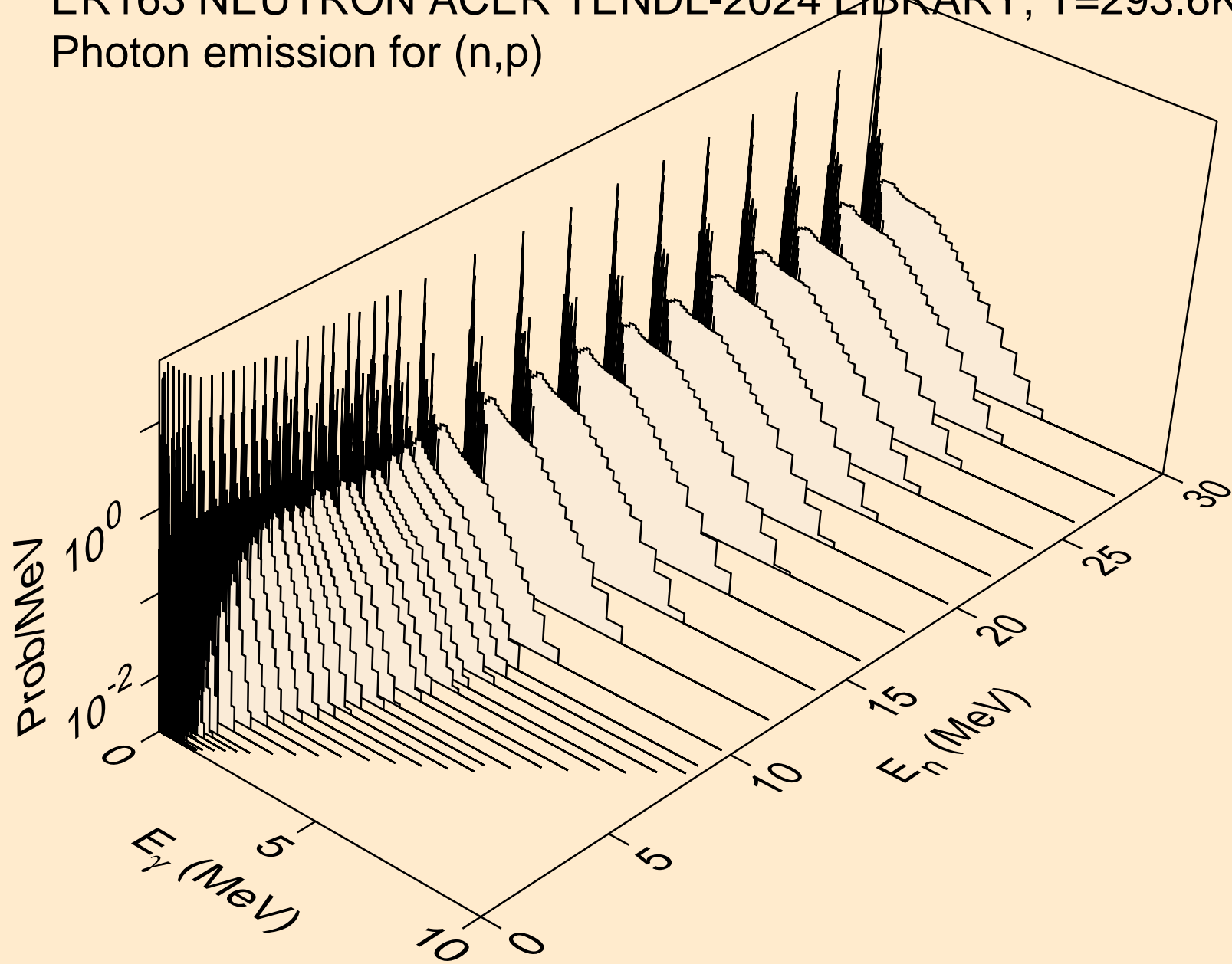
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Photon emission for (n,n\*c)



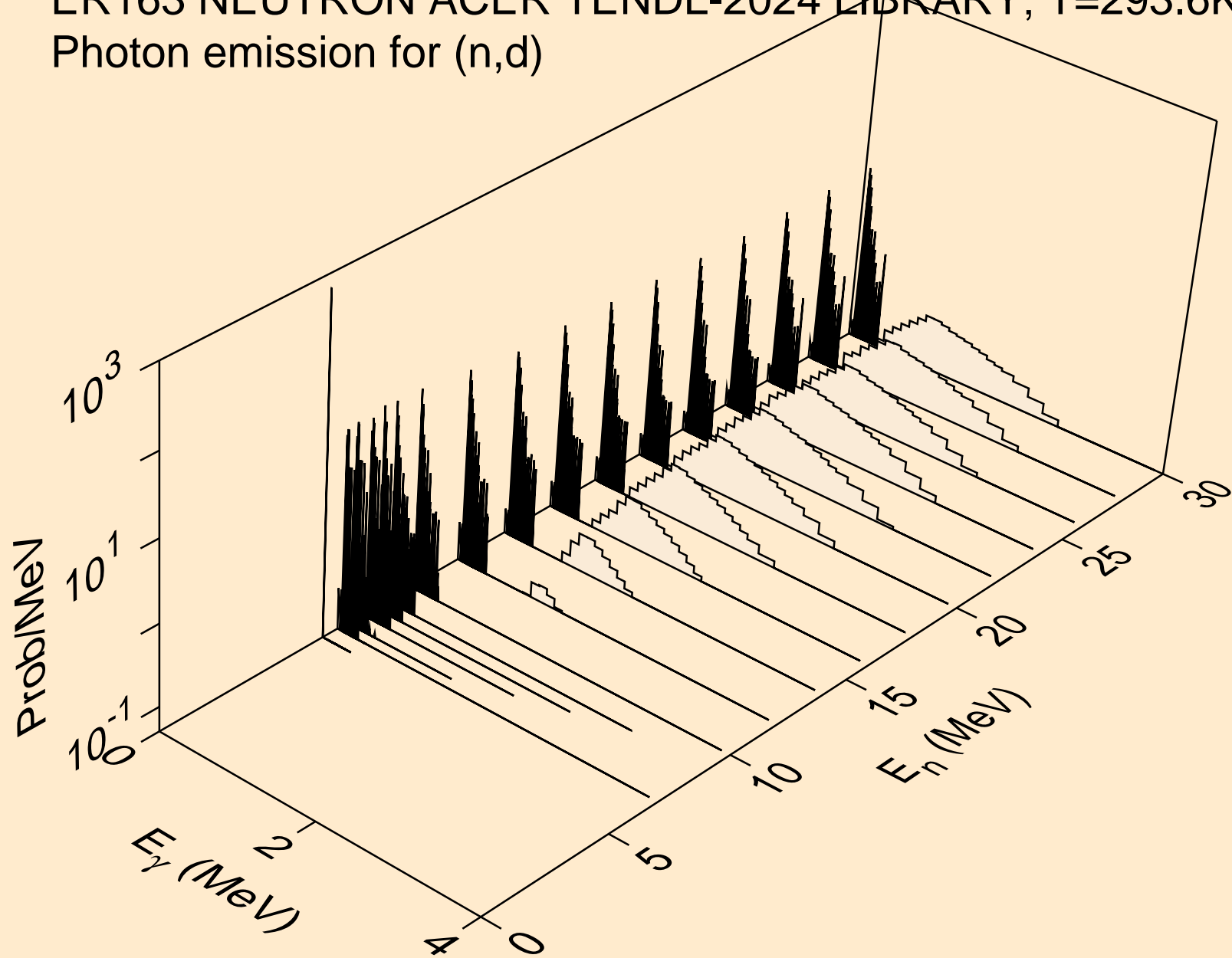
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Photon emission for (n,gma)



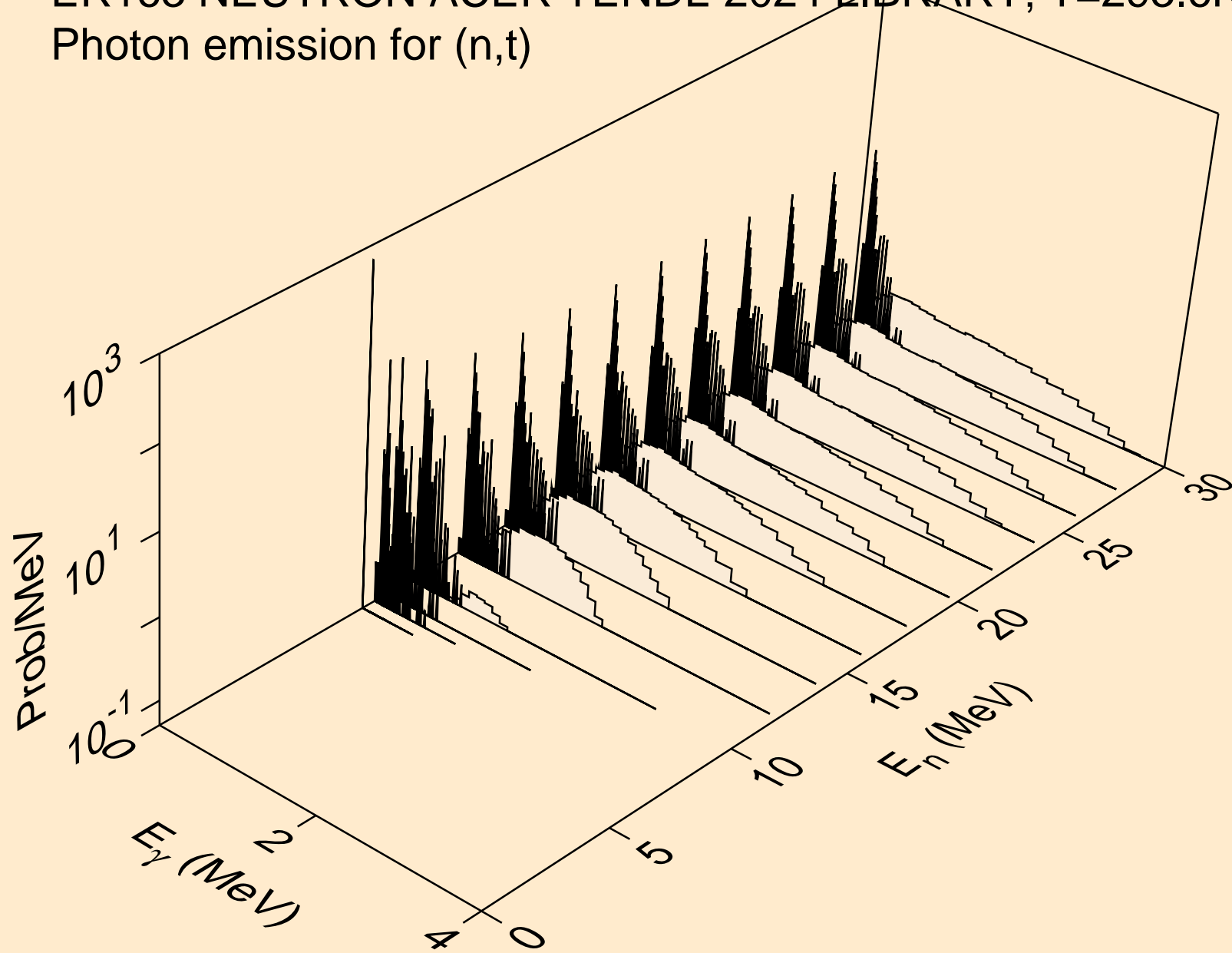
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Photon emission for (n,p)



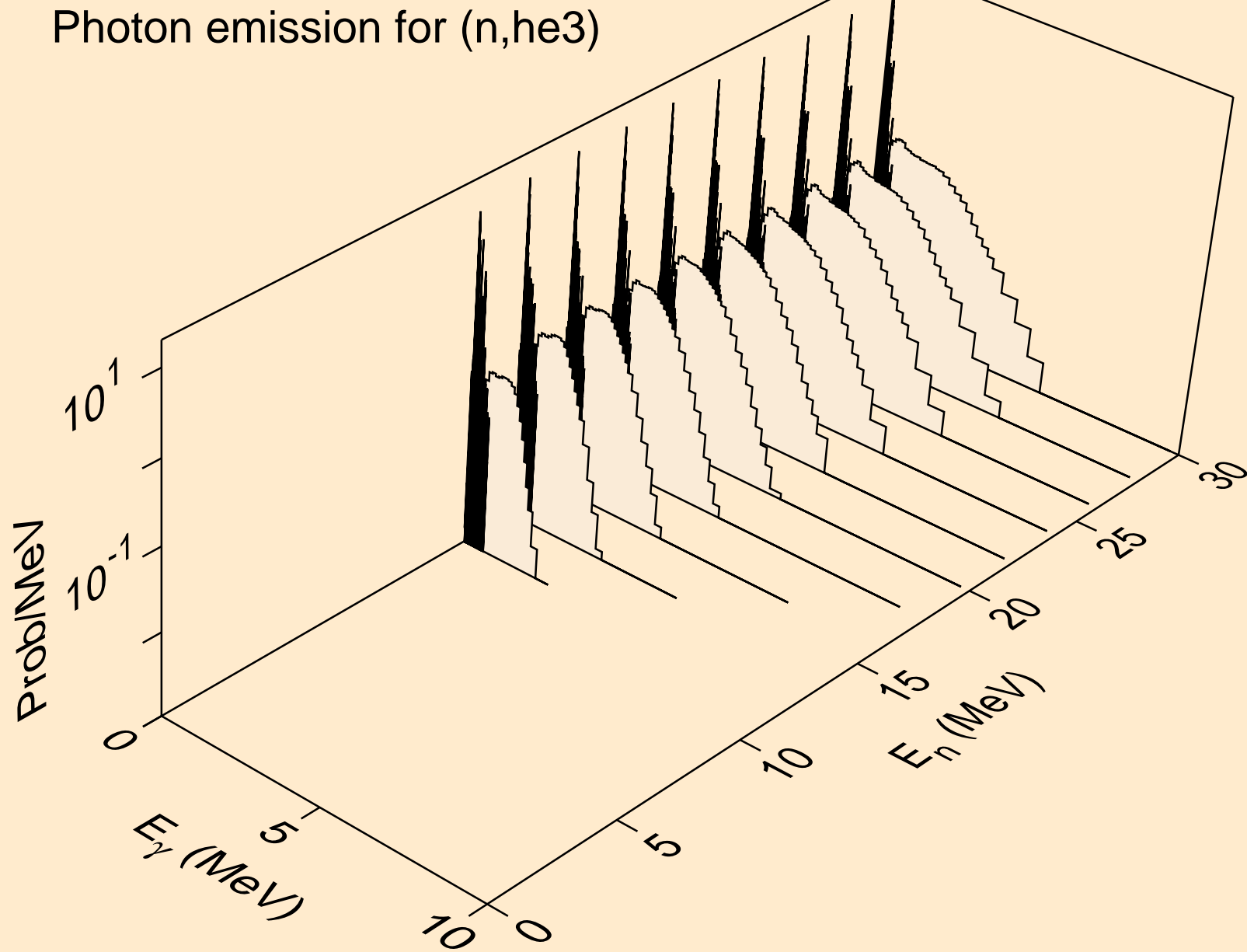
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Photon emission for (n,d)



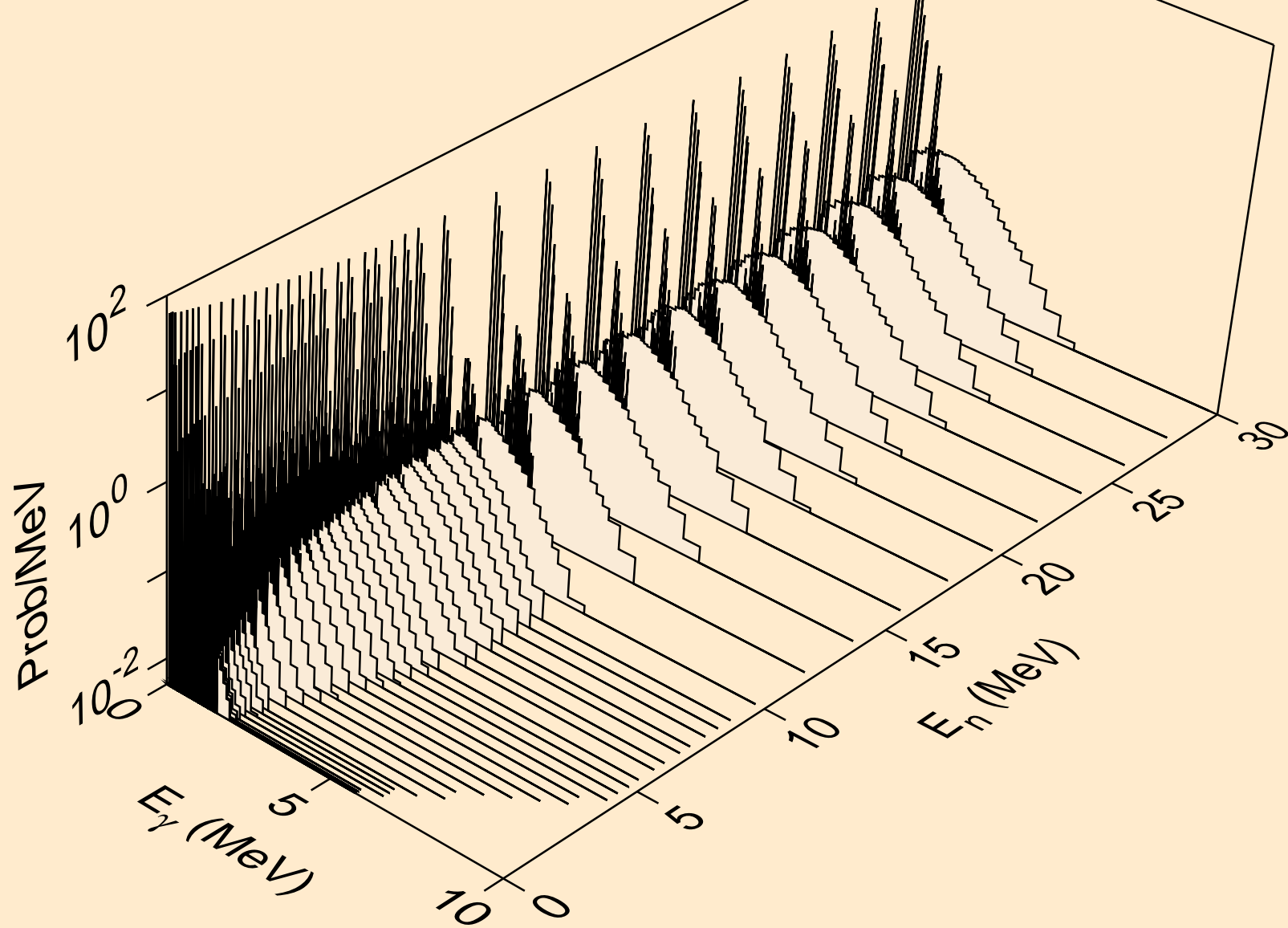
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Photon emission for (n,t)



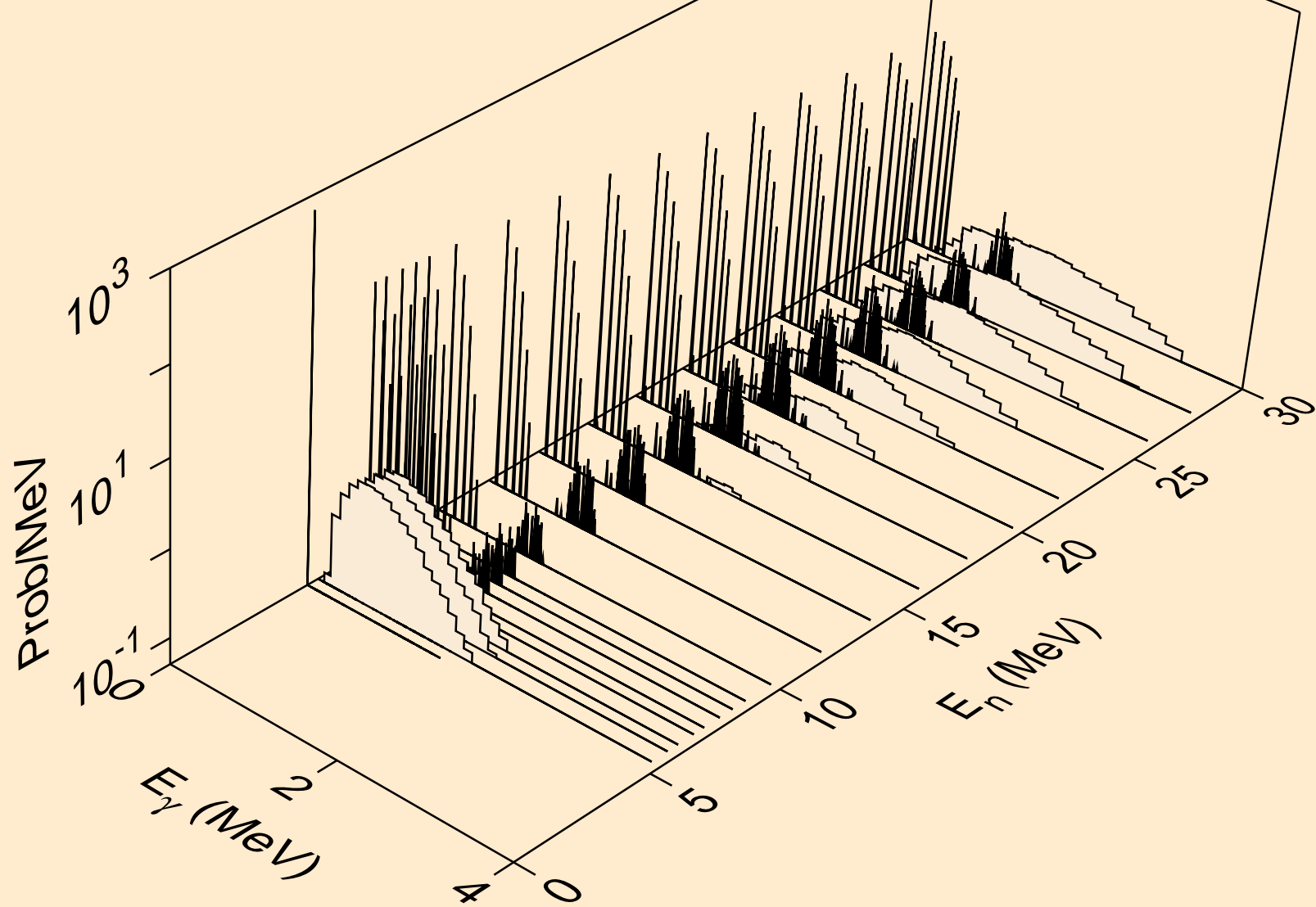
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Photon emission for (n,he3)



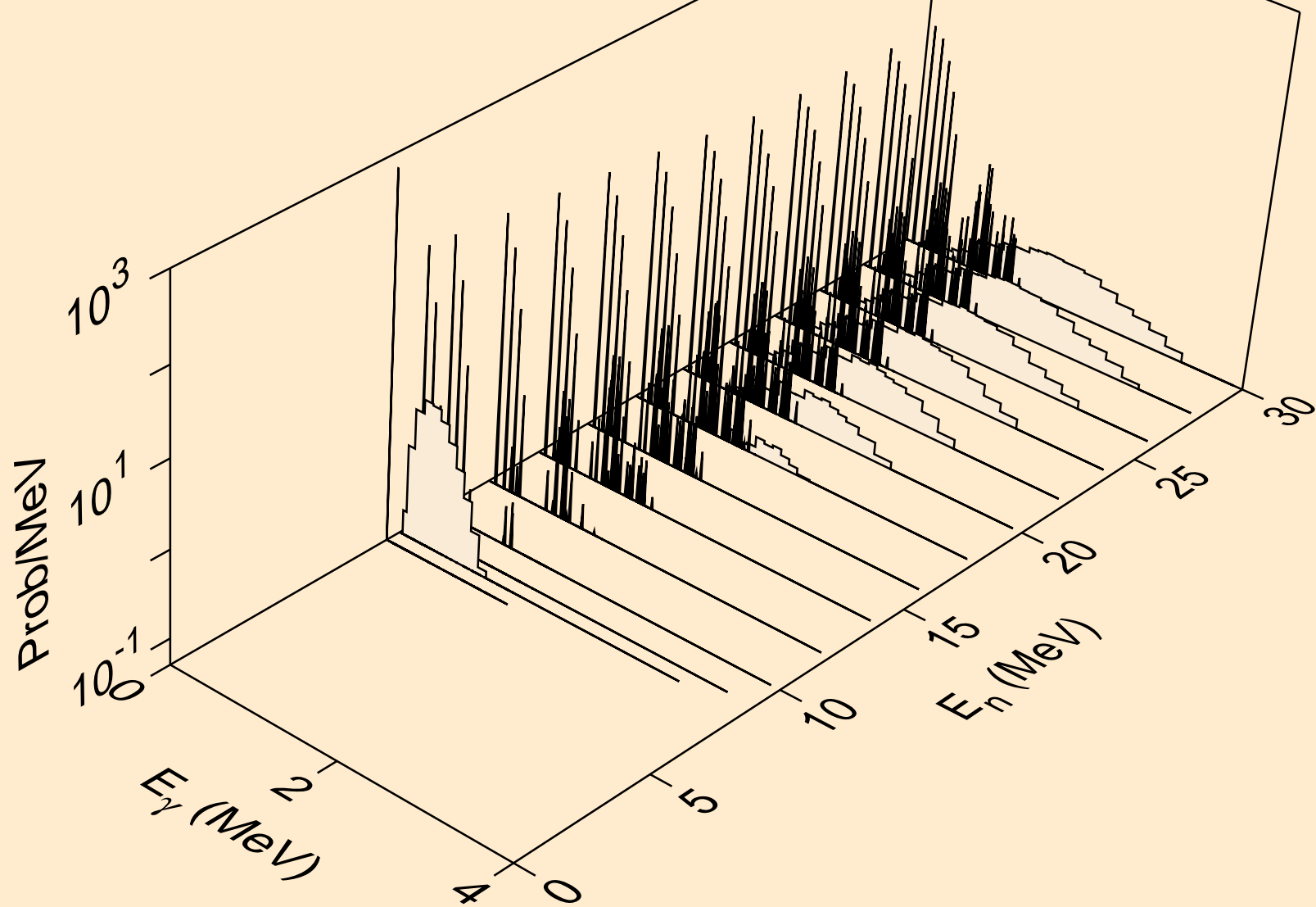
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Photon emission for (n,a)



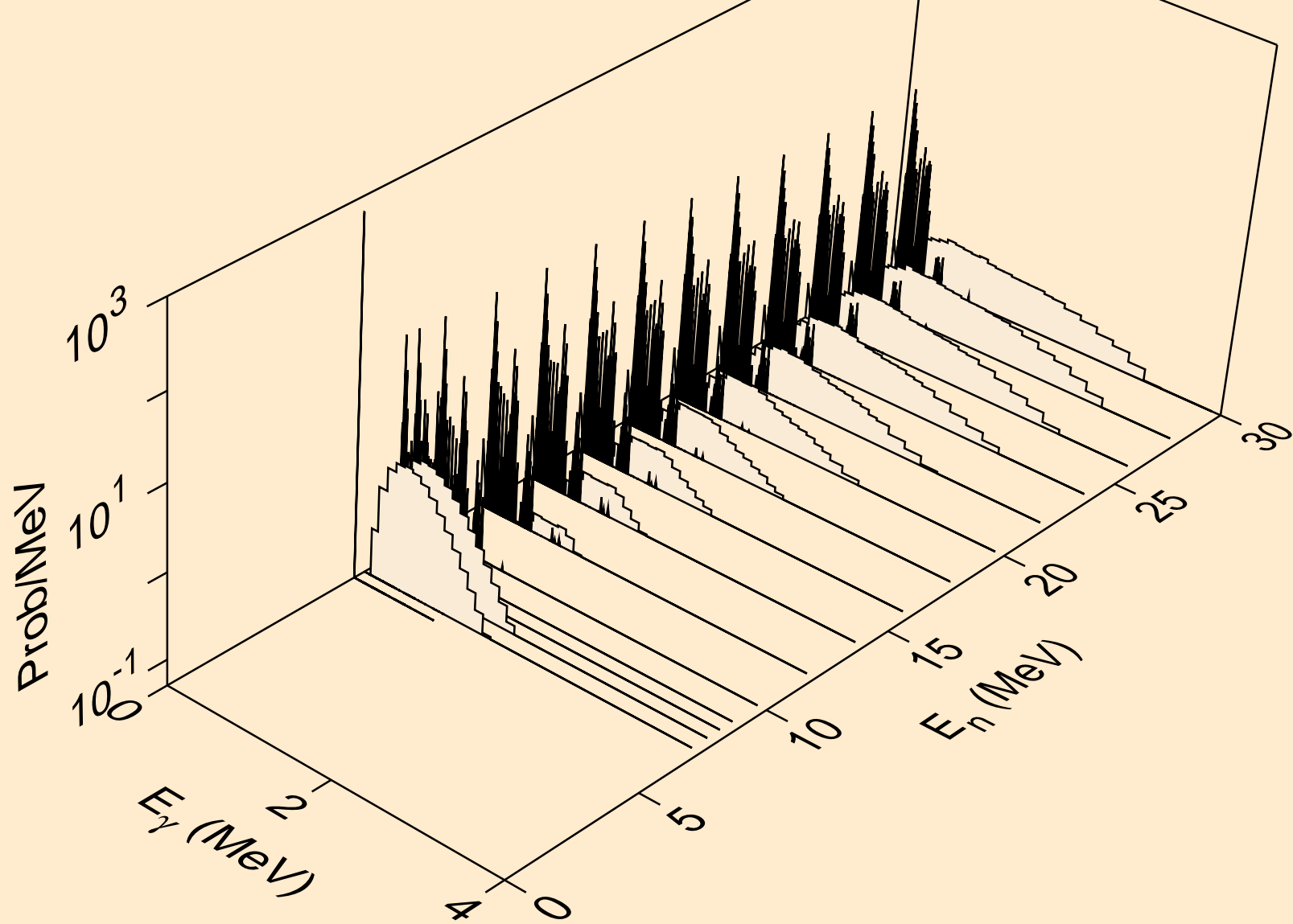
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Photon emission for (n,2a)



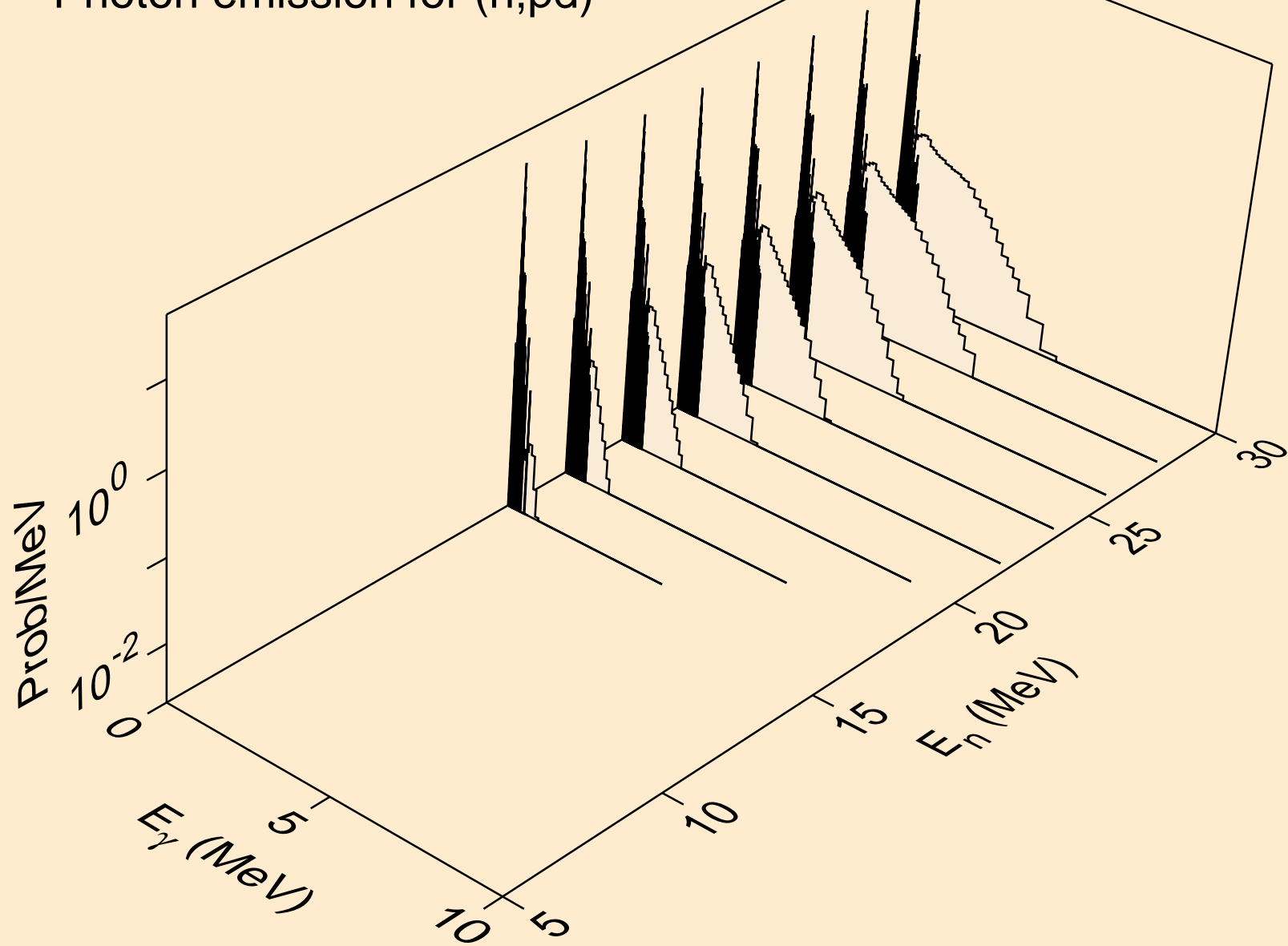
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Photon emission for (n,2p)



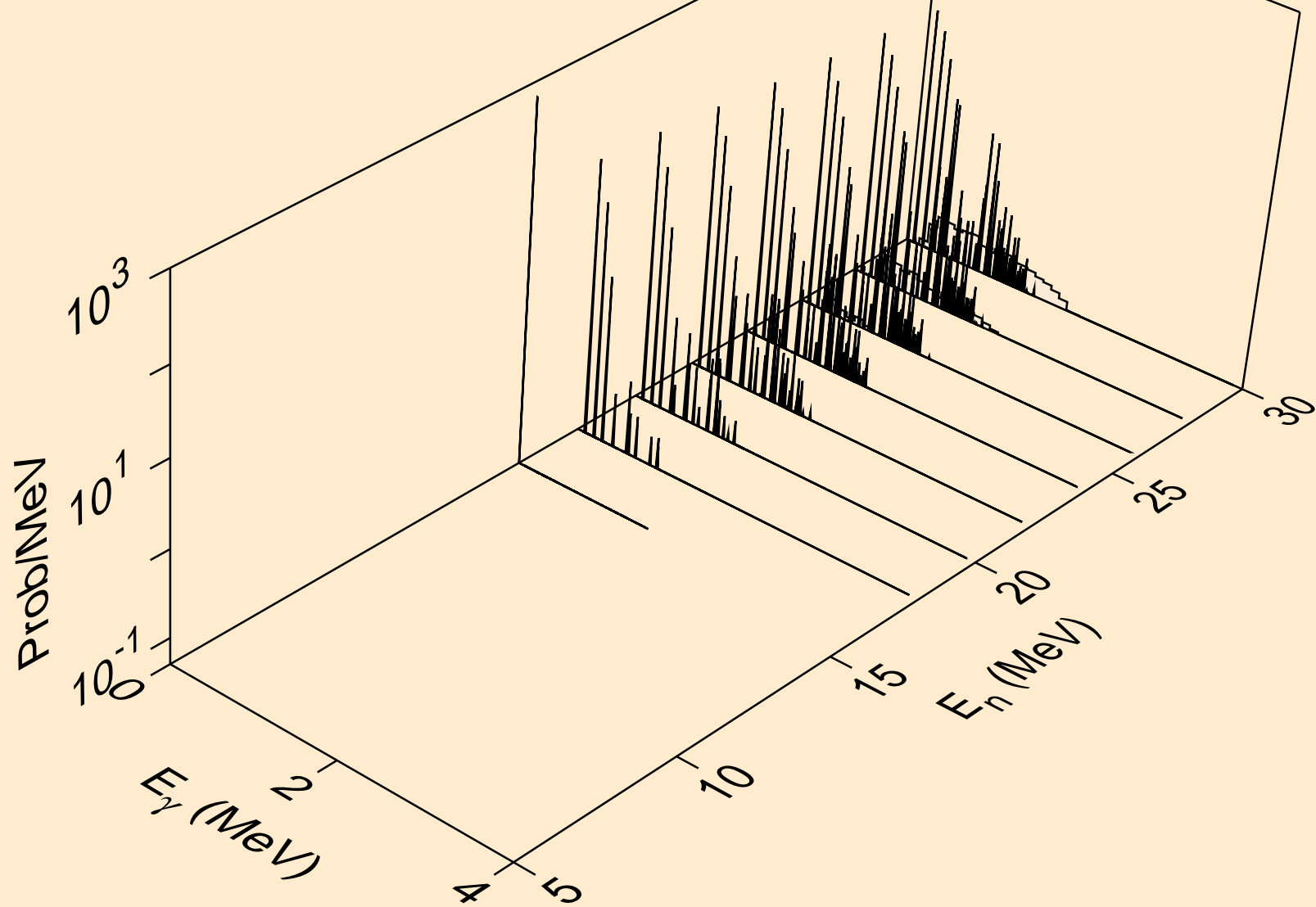
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Photon emission for (n,p $\alpha$ )



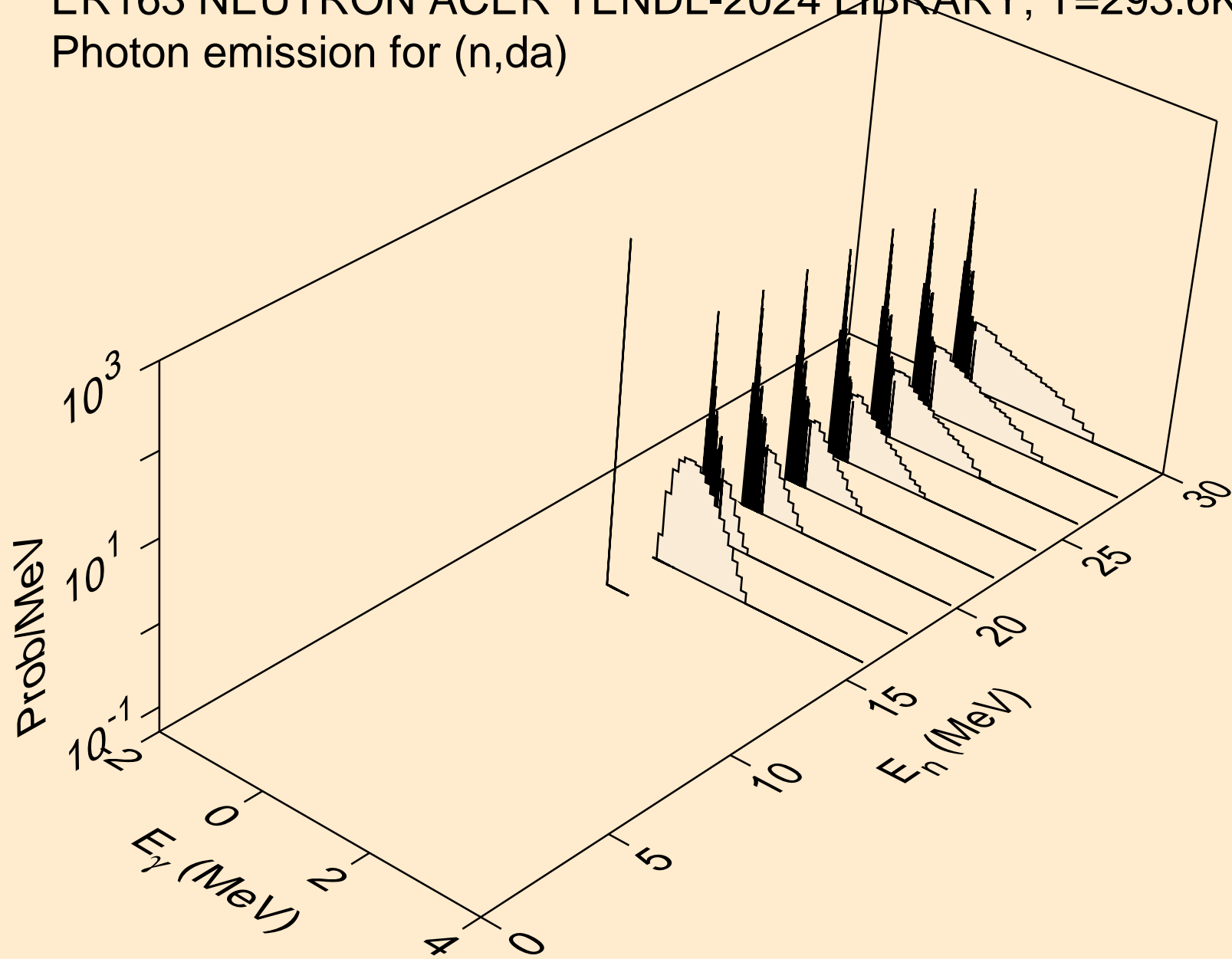
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,pd)



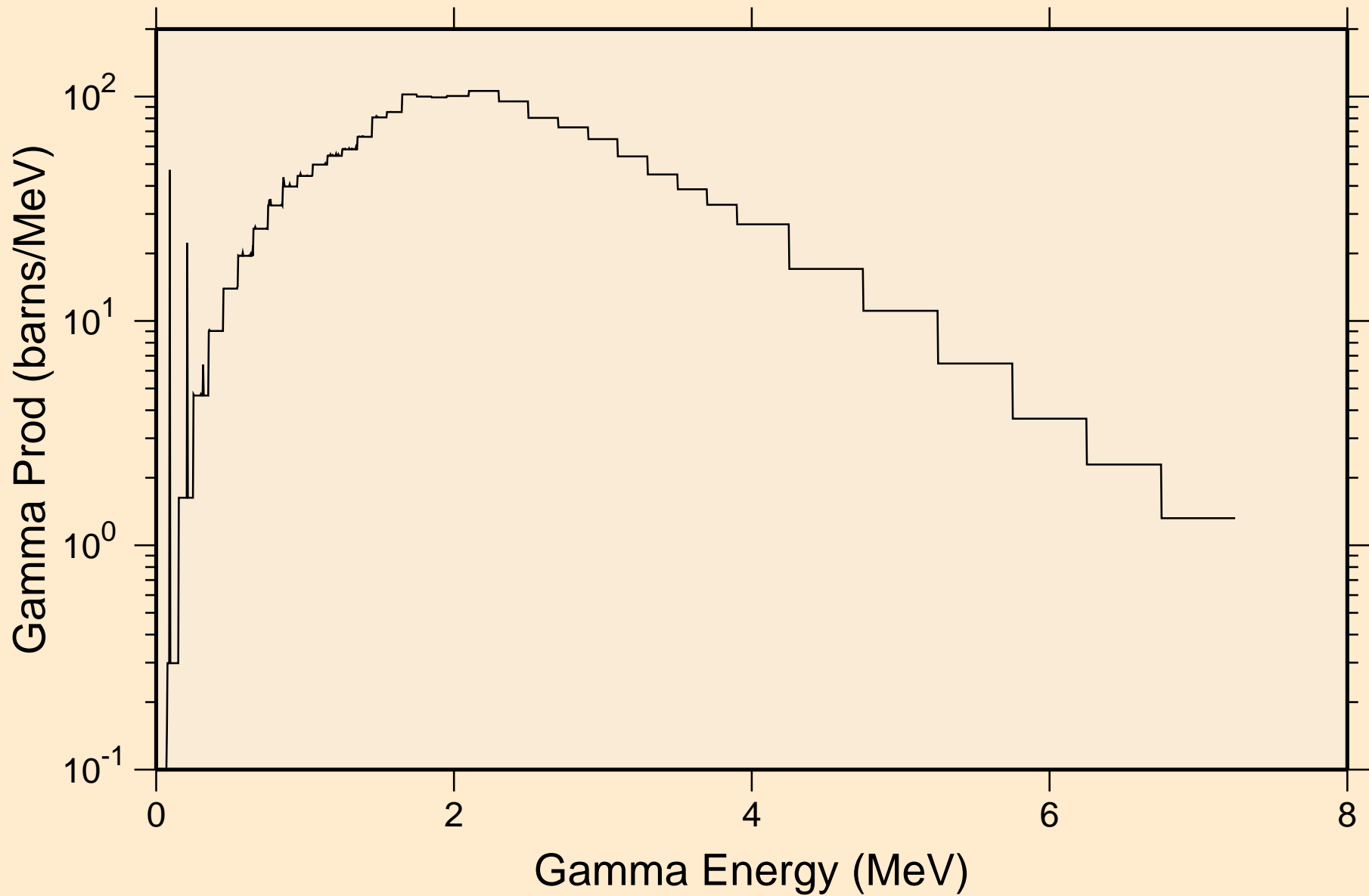
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,pt)



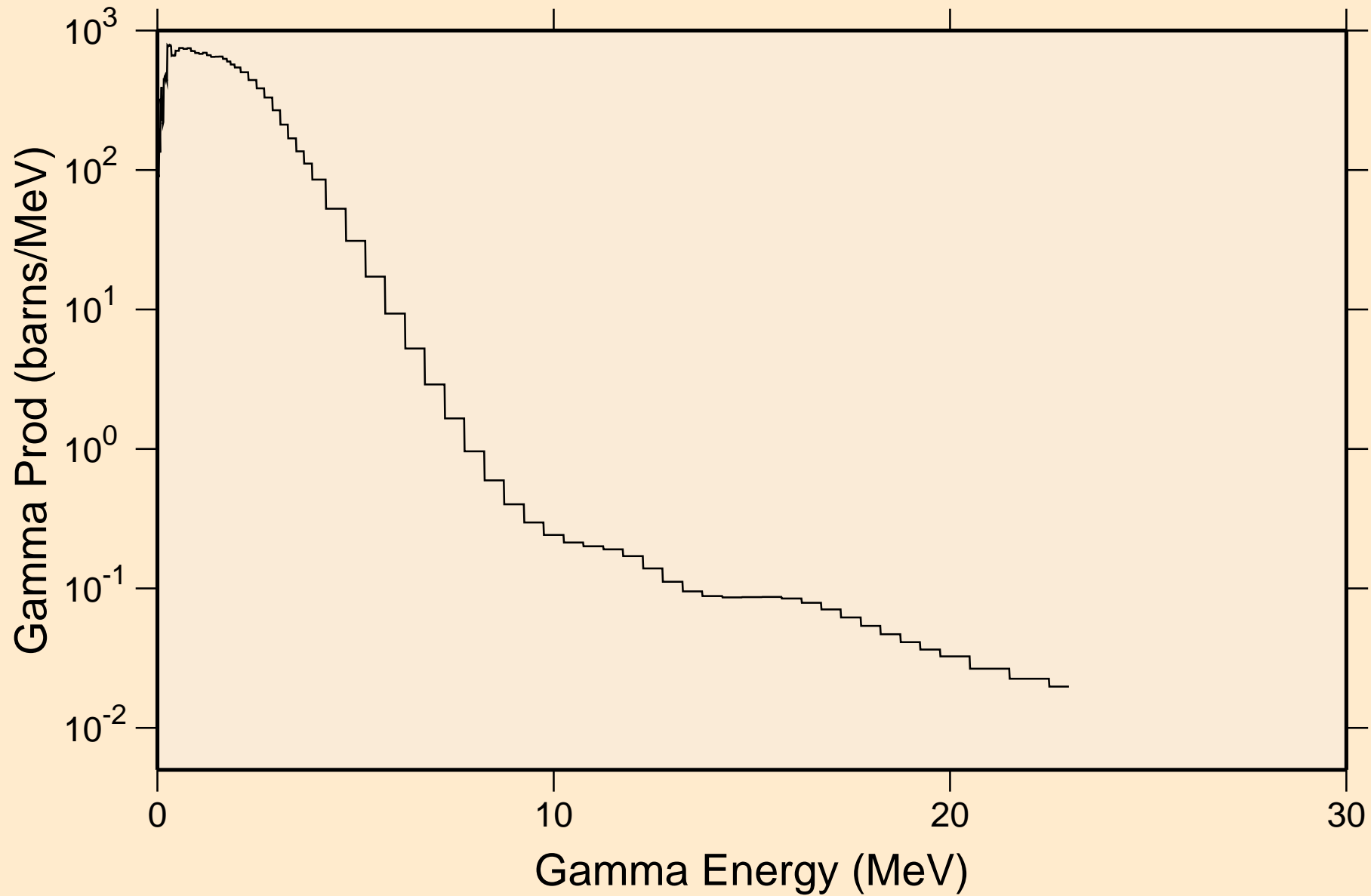
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,da)



ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
thermal capture photon spectrum

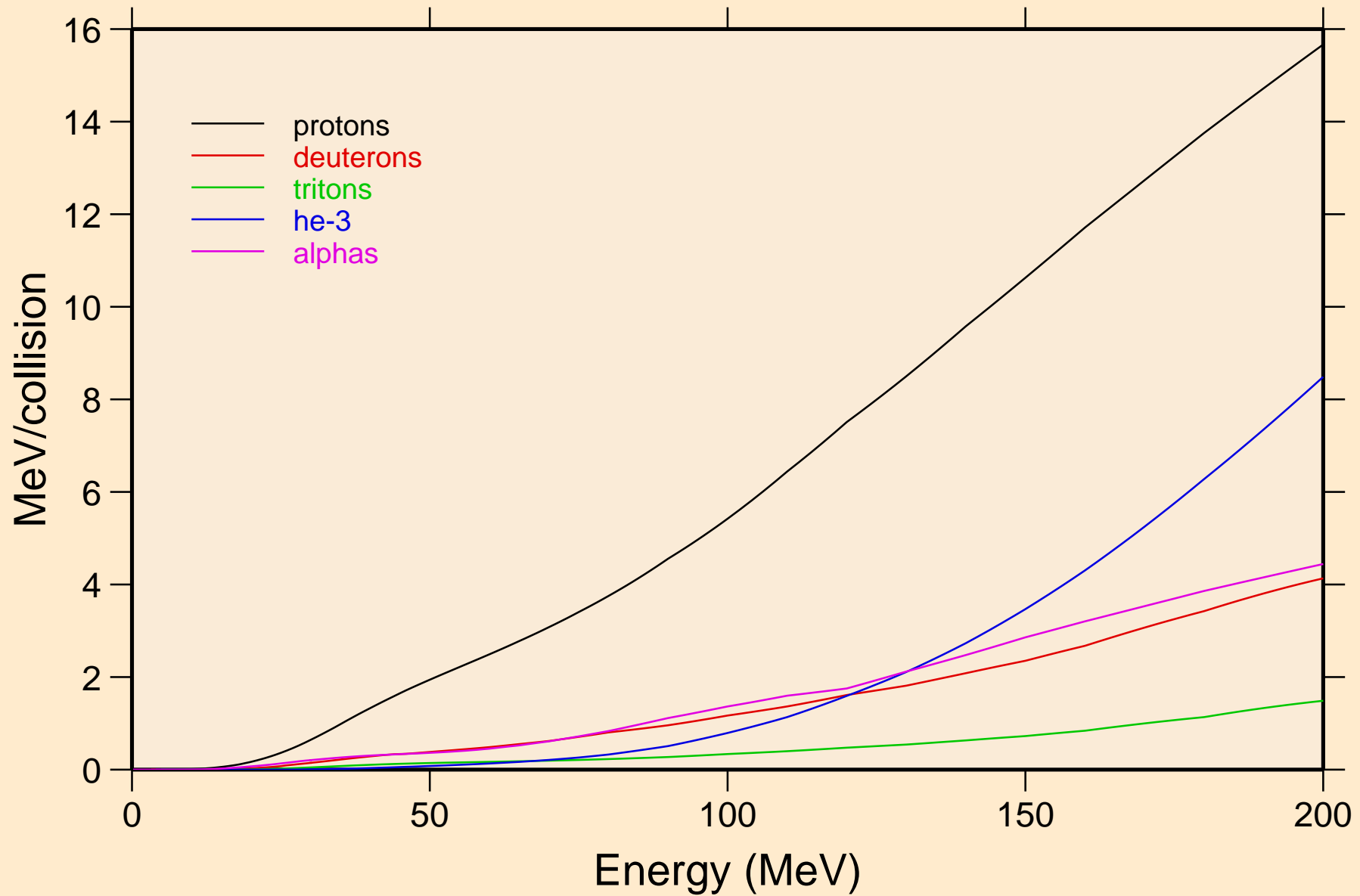


ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
14 MeV photon spectrum

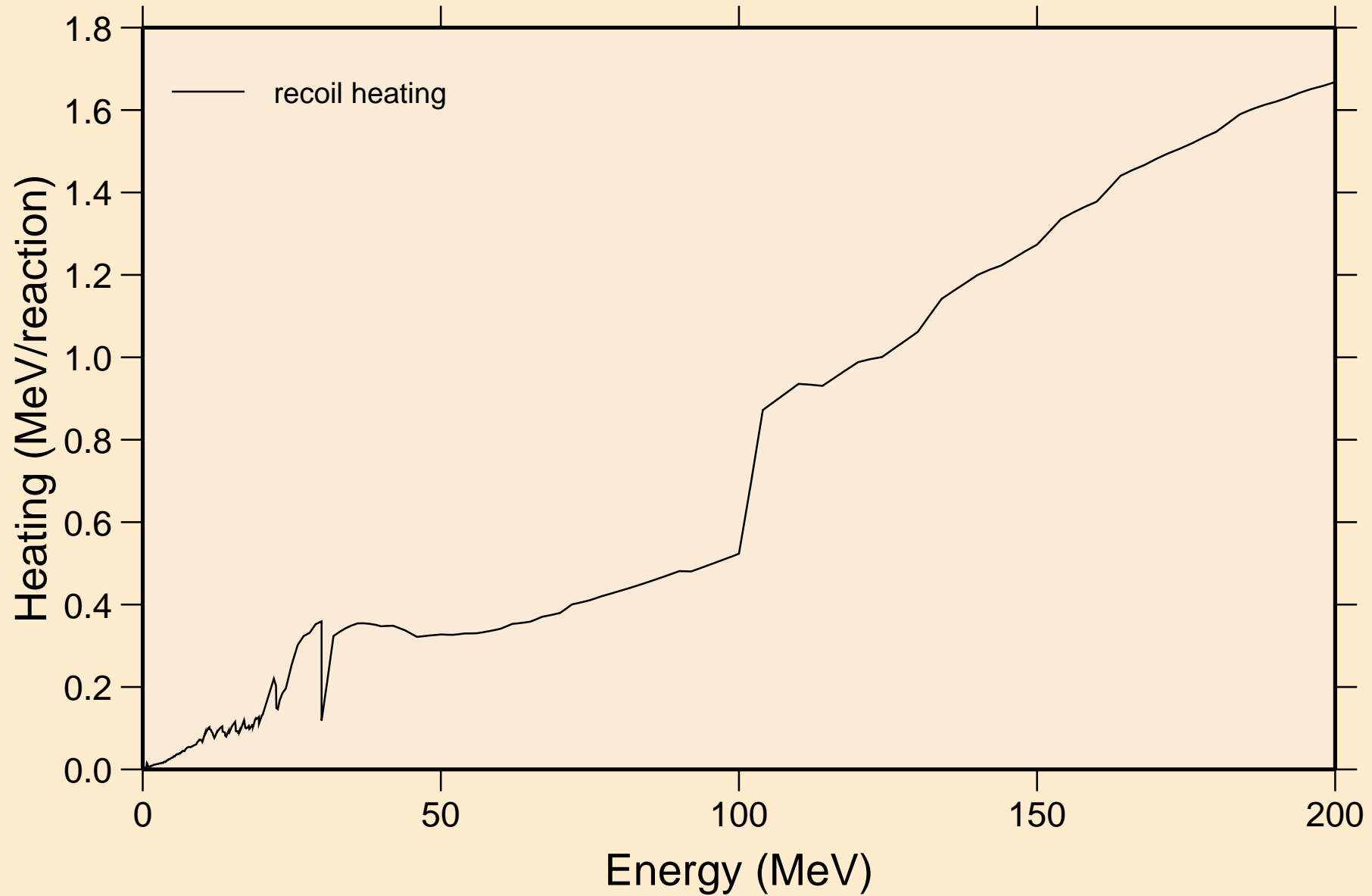


# ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

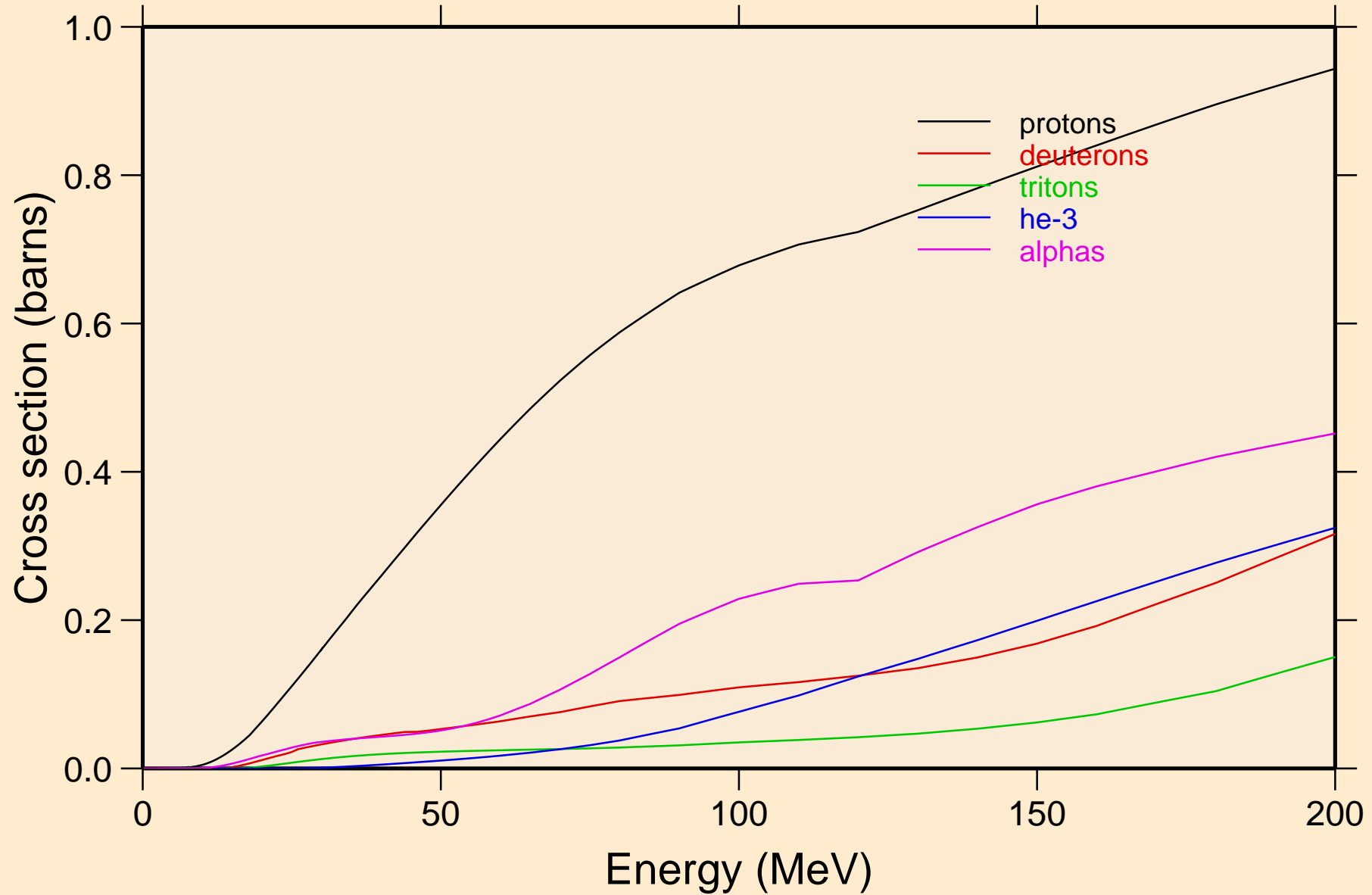
## Particle heating contributions



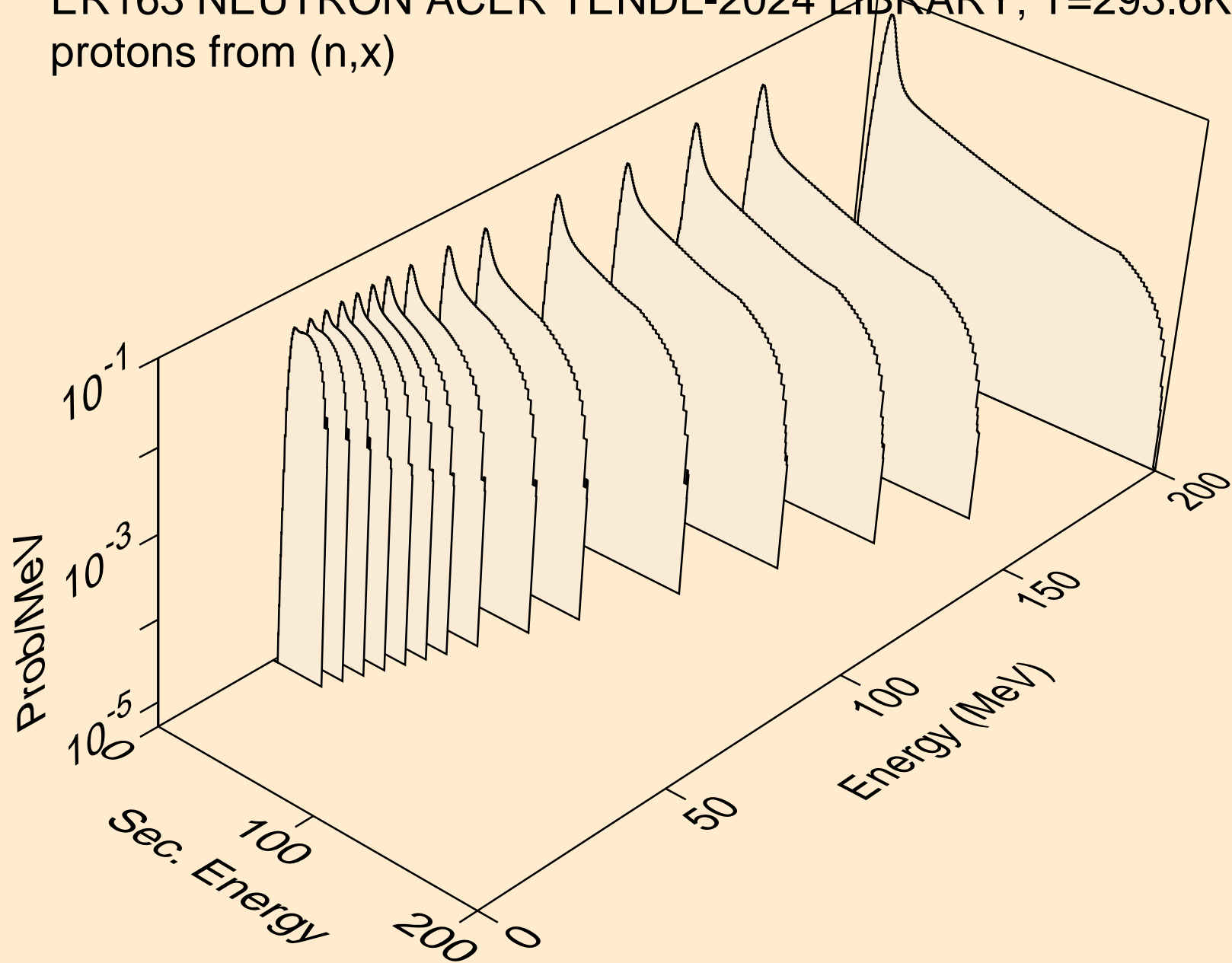
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Recoil Heating



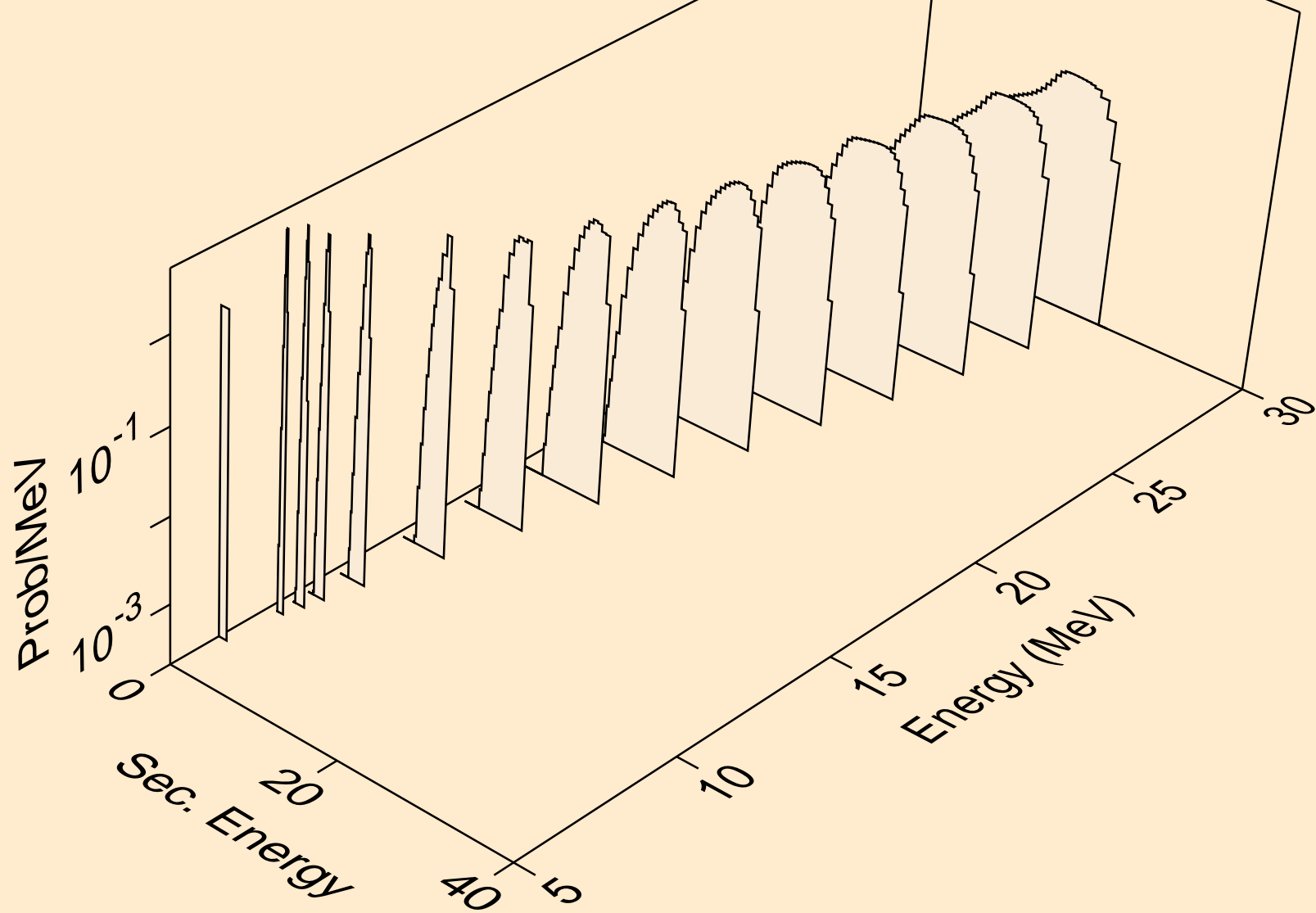
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Particle production cross sections



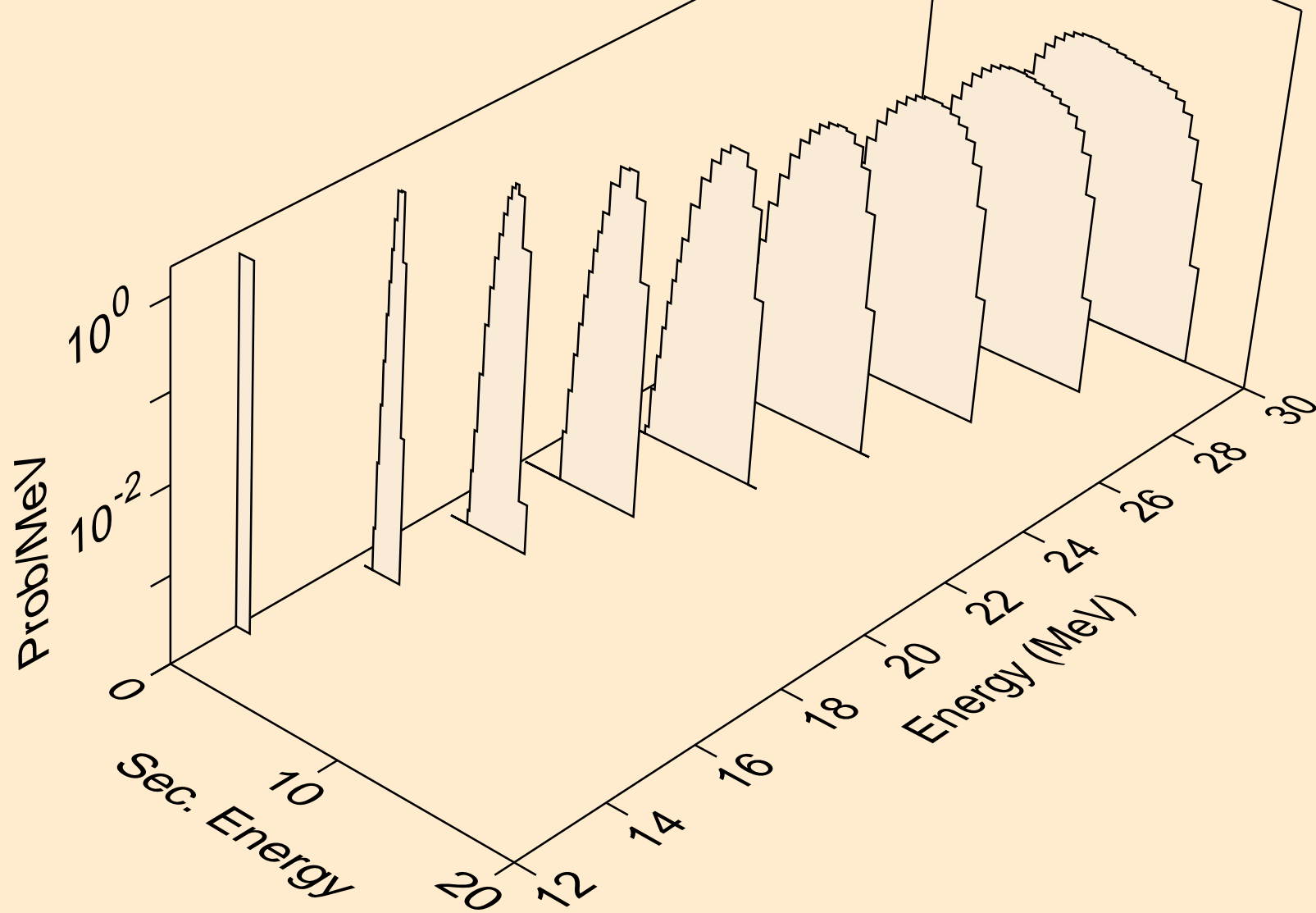
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protons from (n,x)



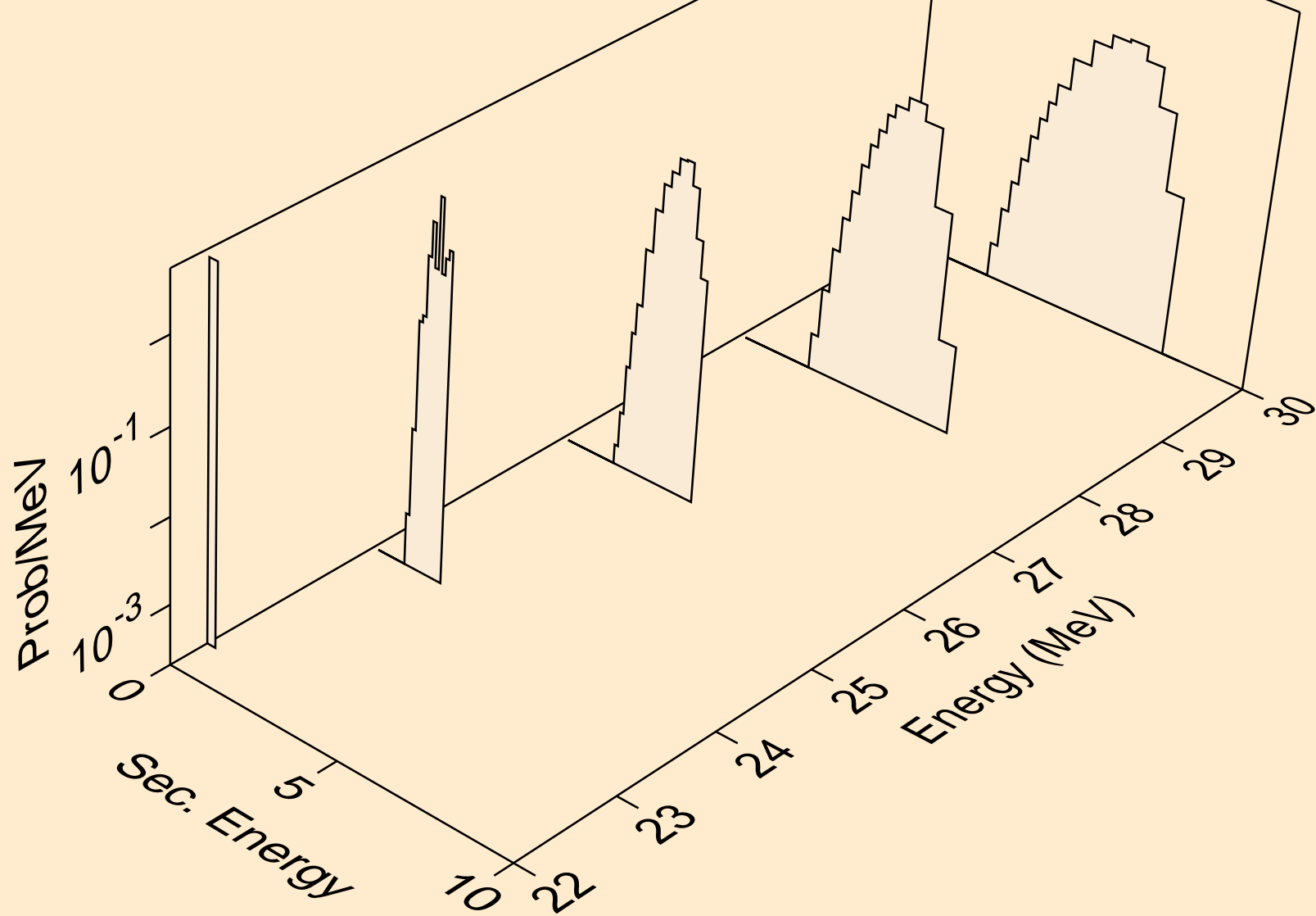
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protons from (n,n\*)p



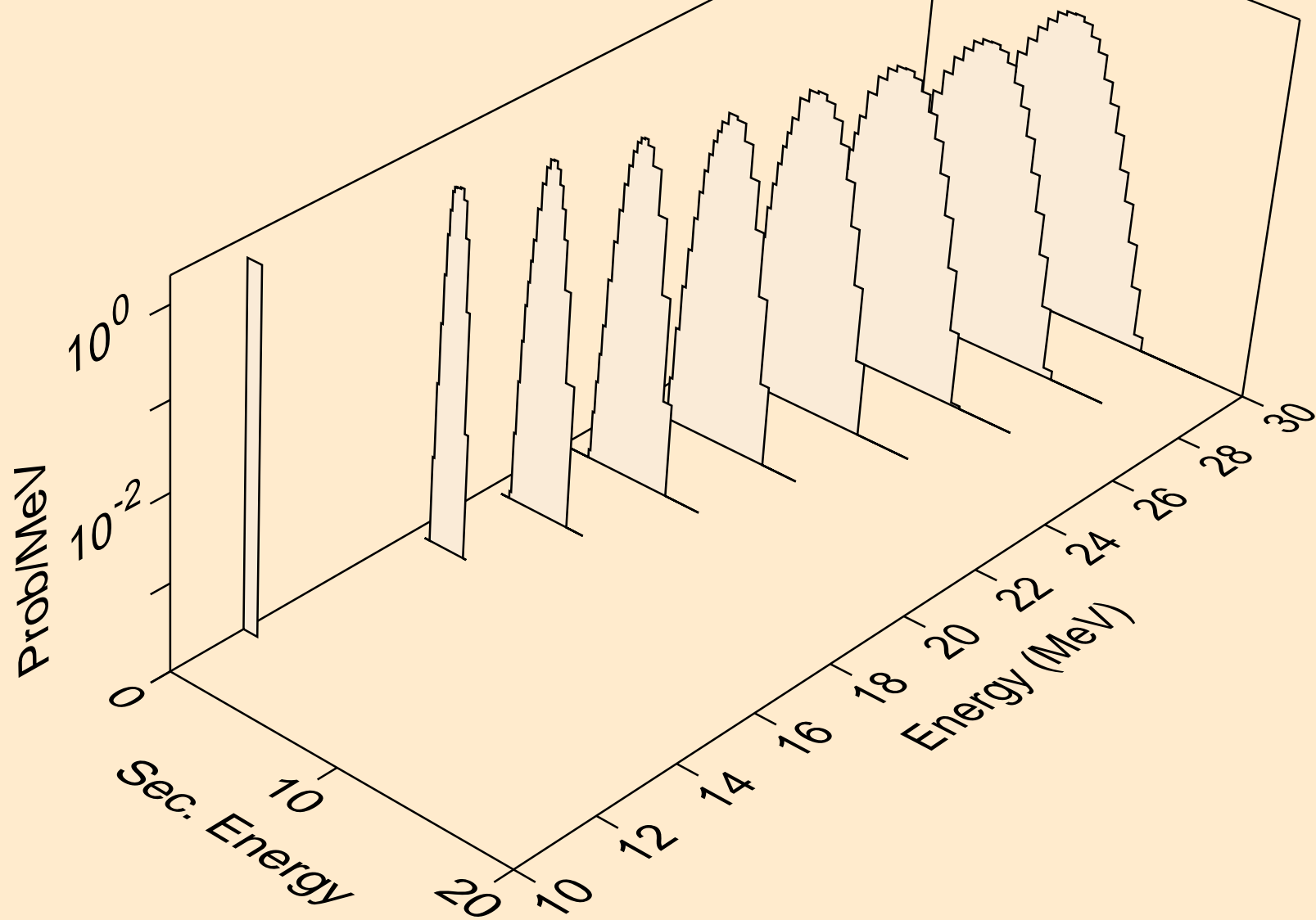
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protons from (n,2np)



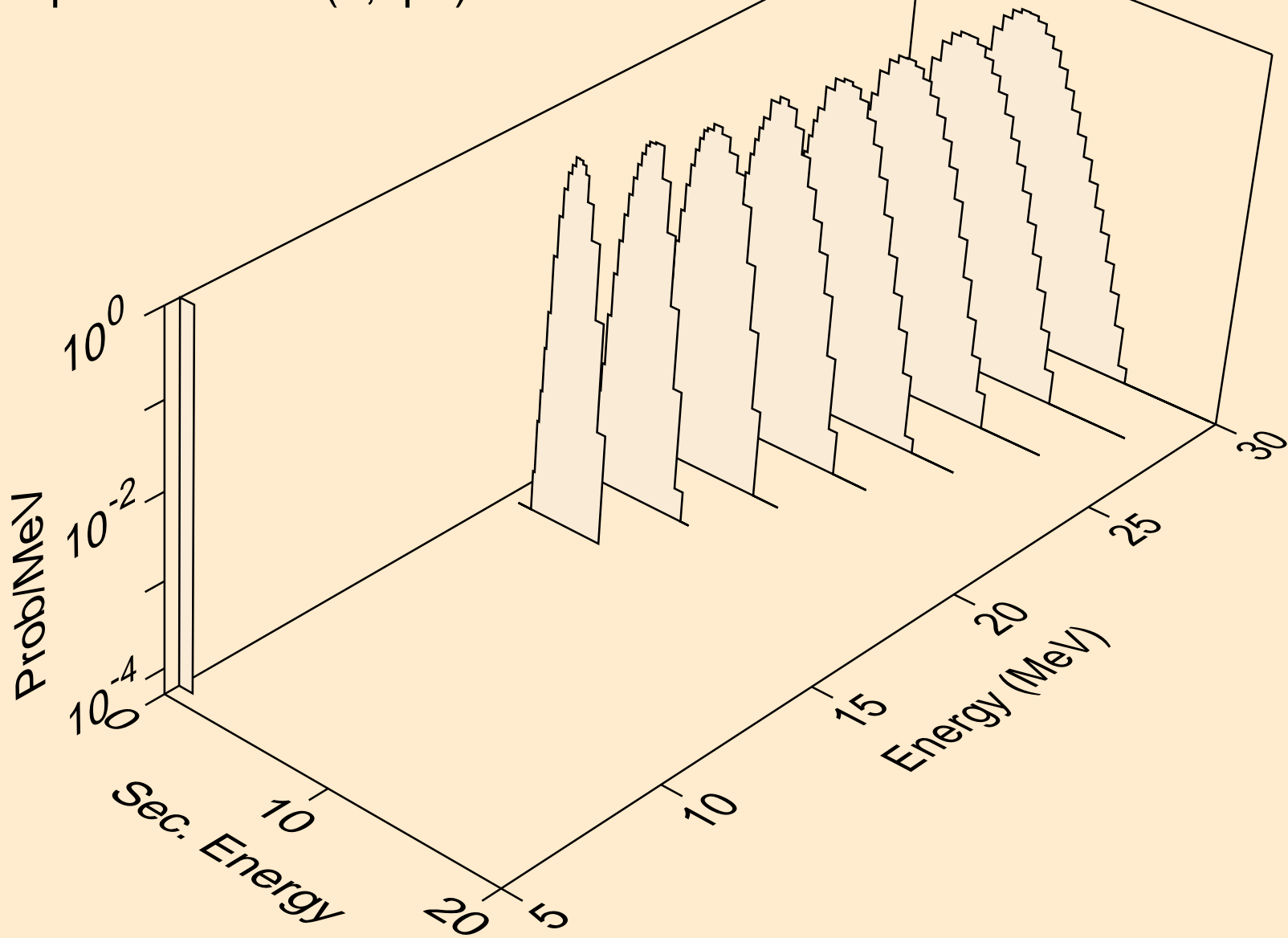
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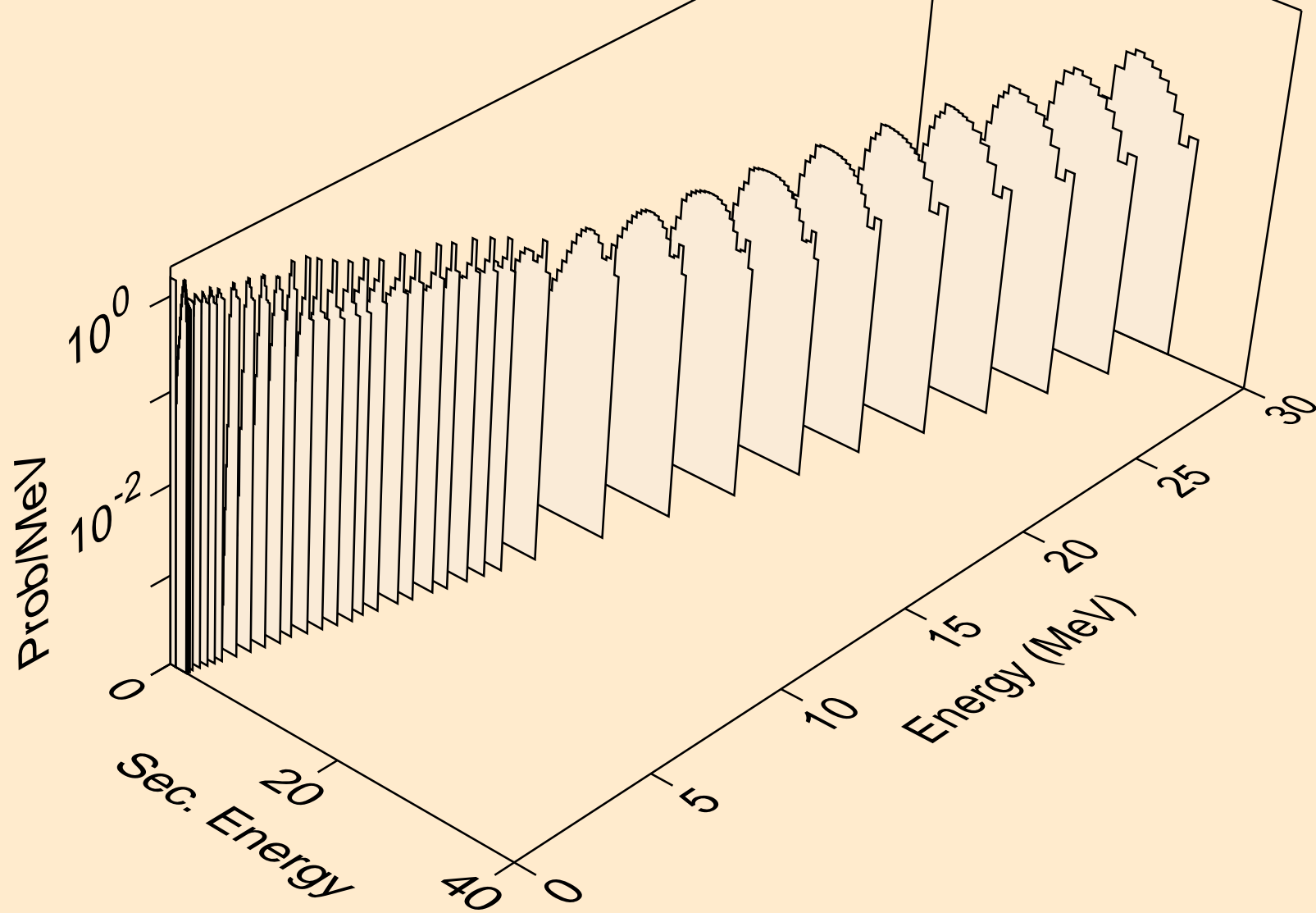
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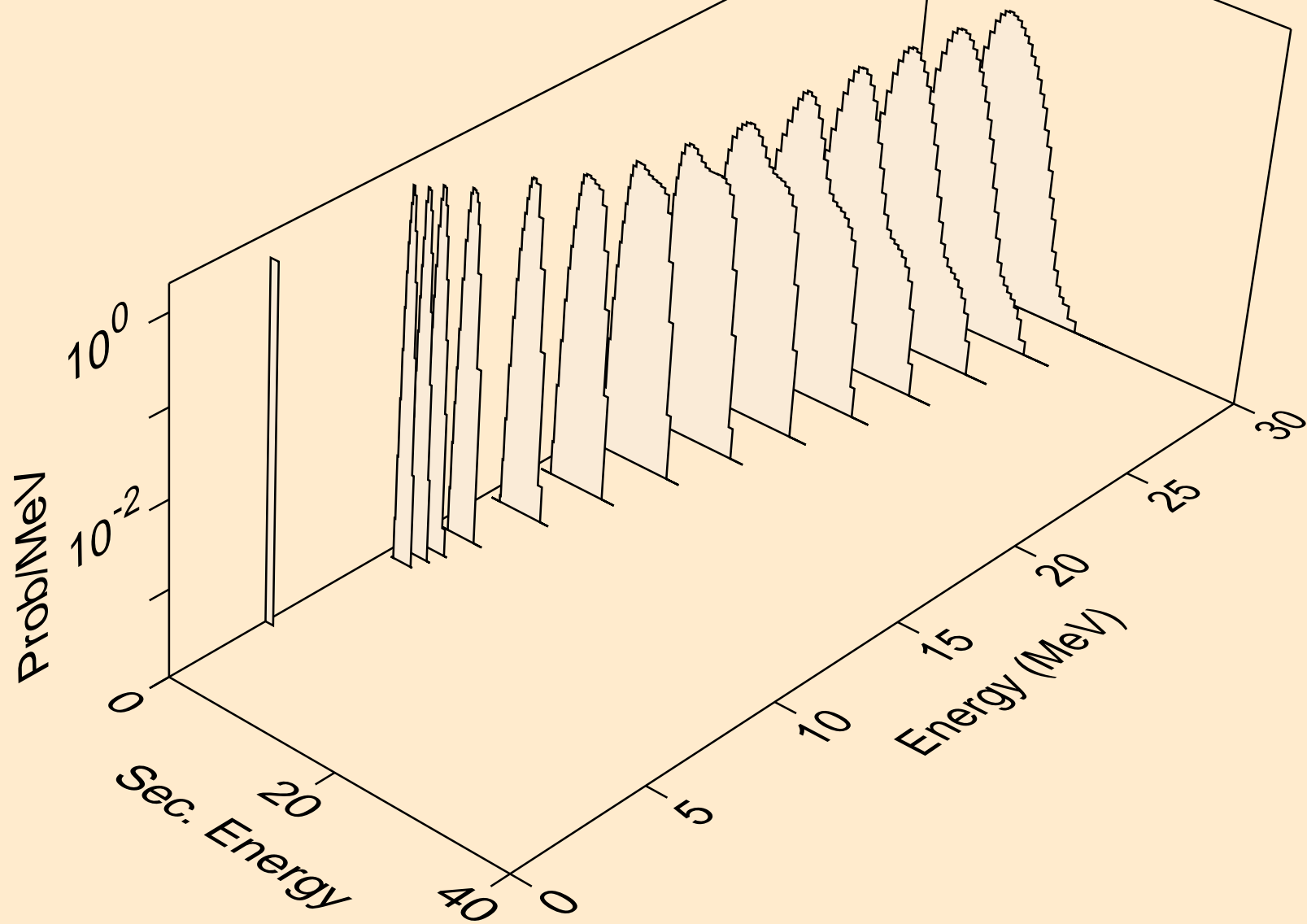
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protons from (n,npa)



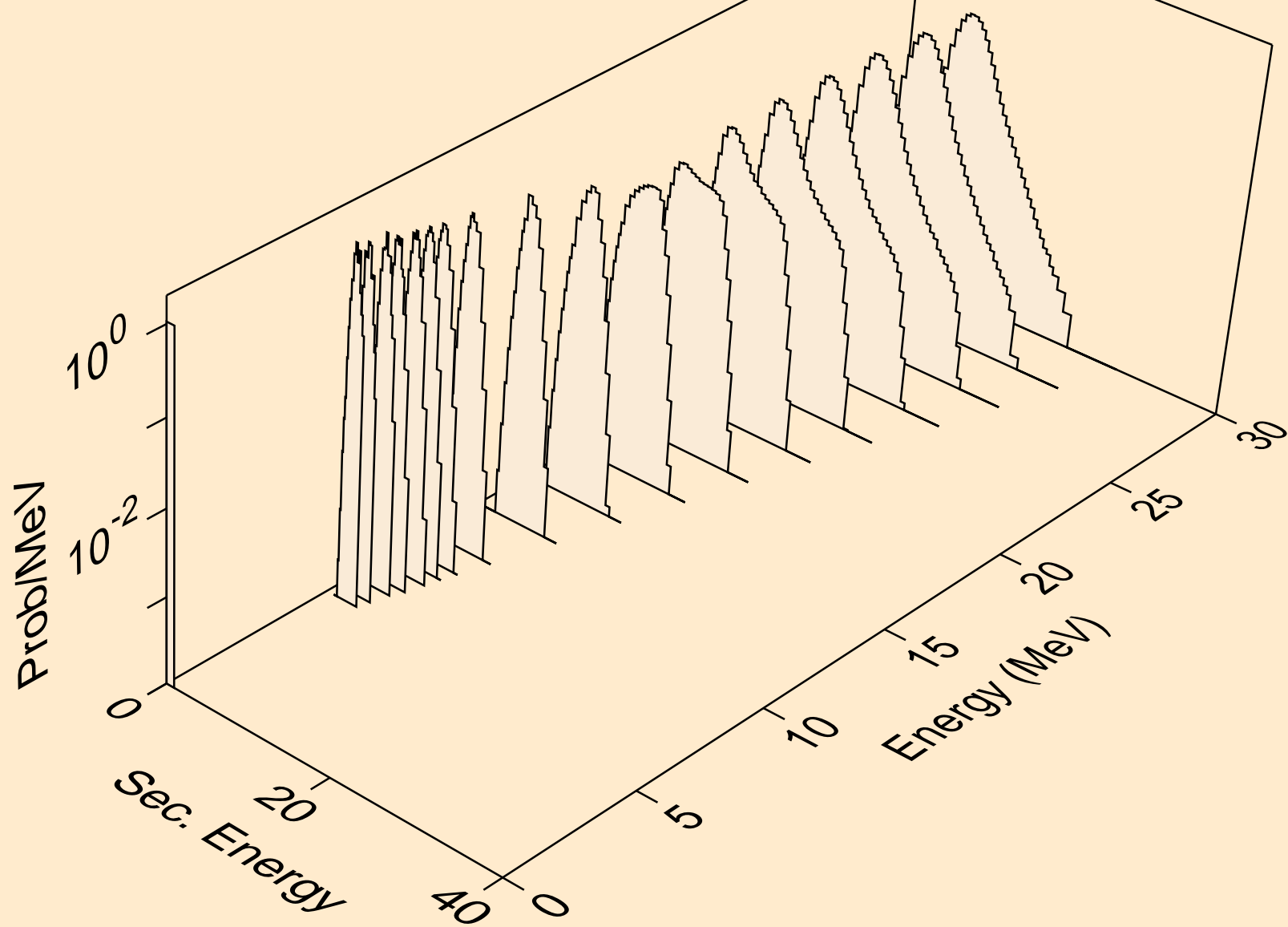
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protons from (n,p)



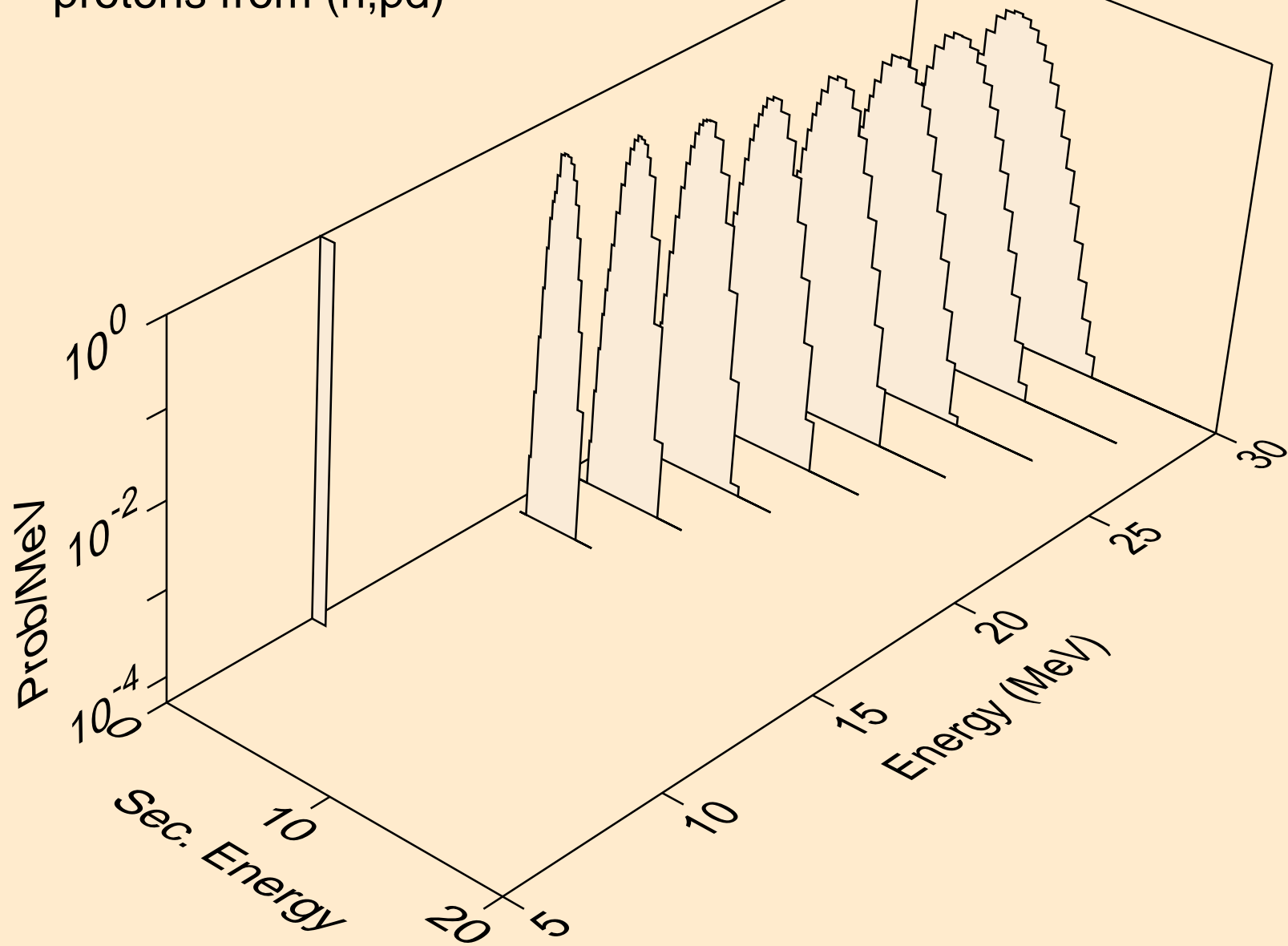
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protons from (n,2p)



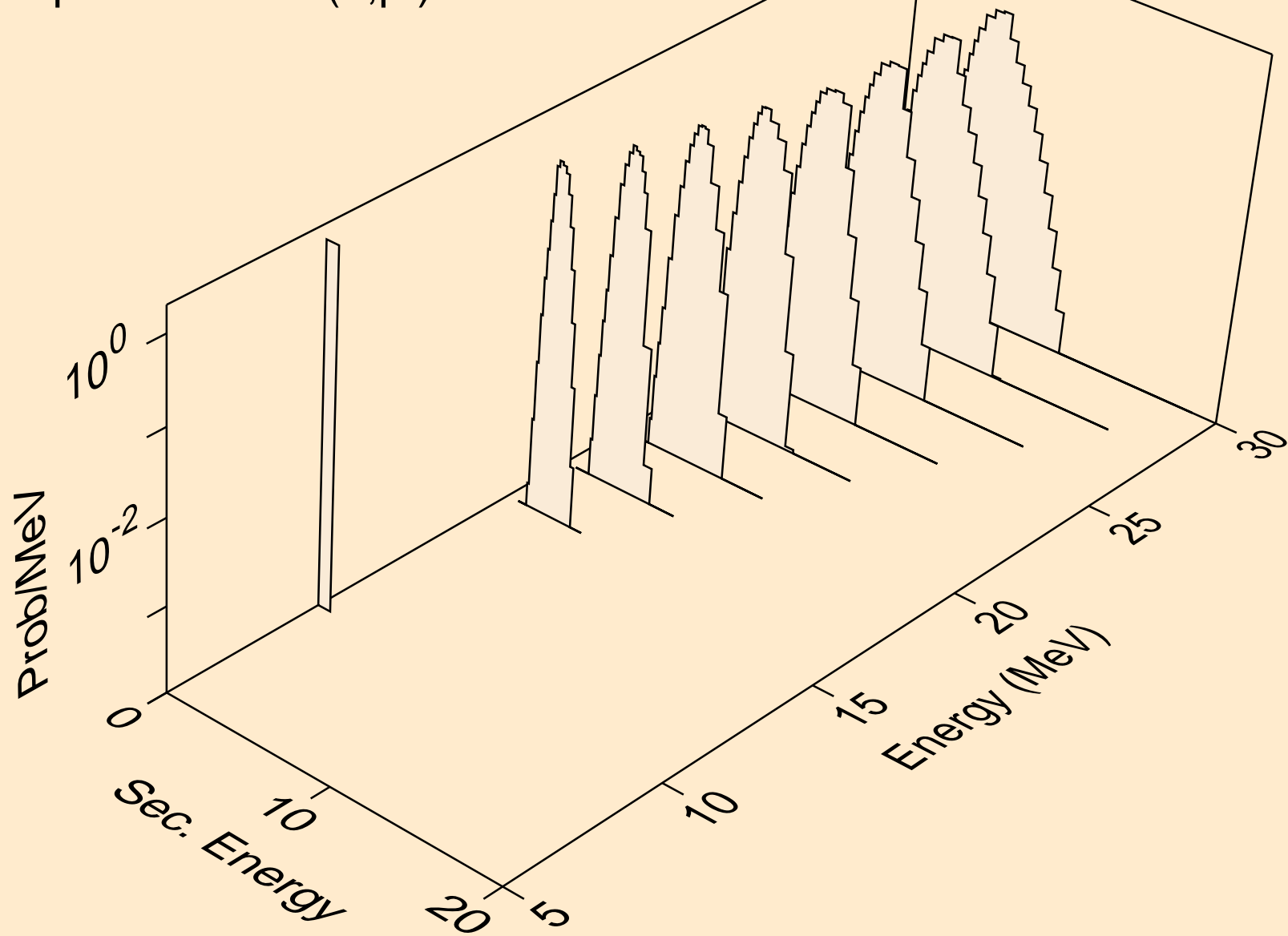
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protons from (n,p)



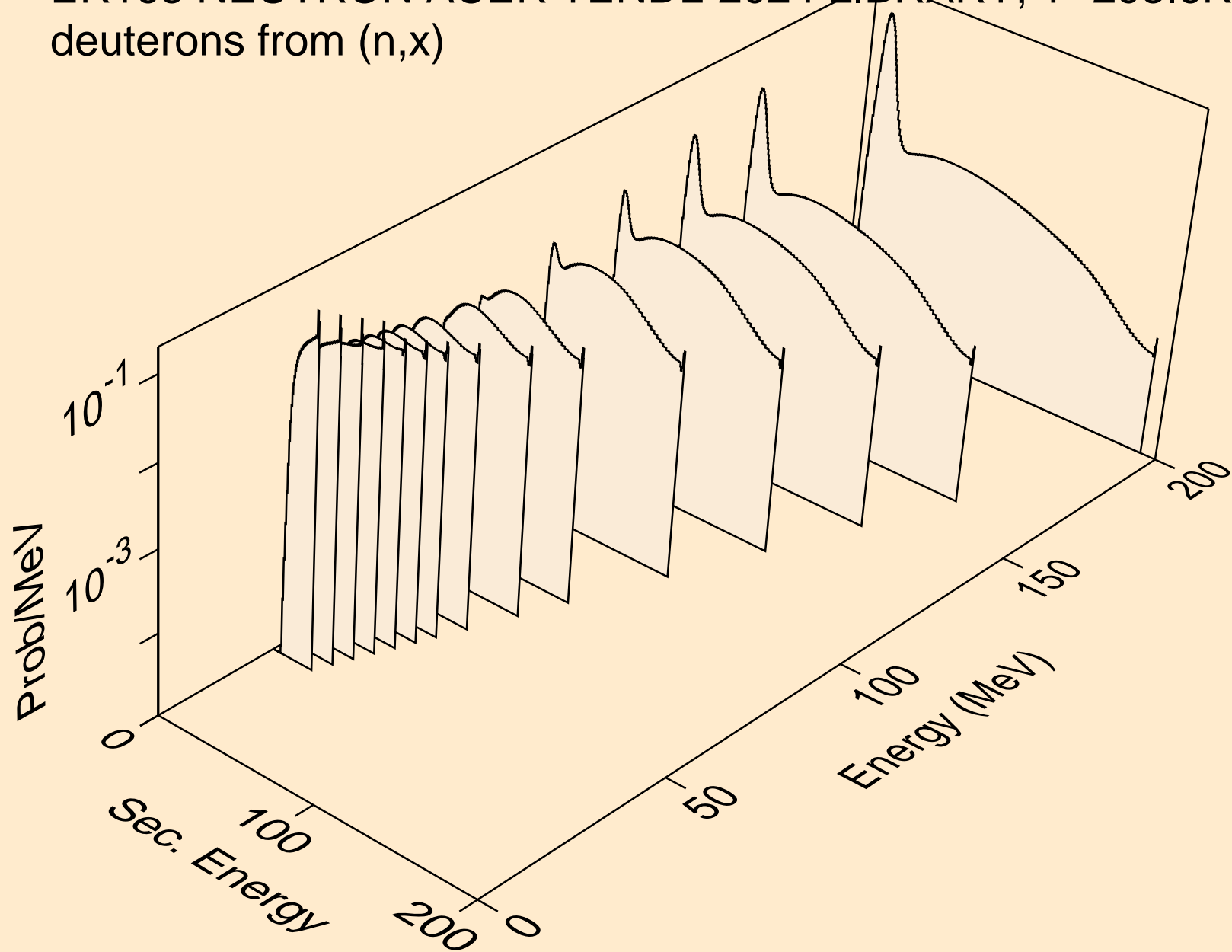
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protons from (n,pd)



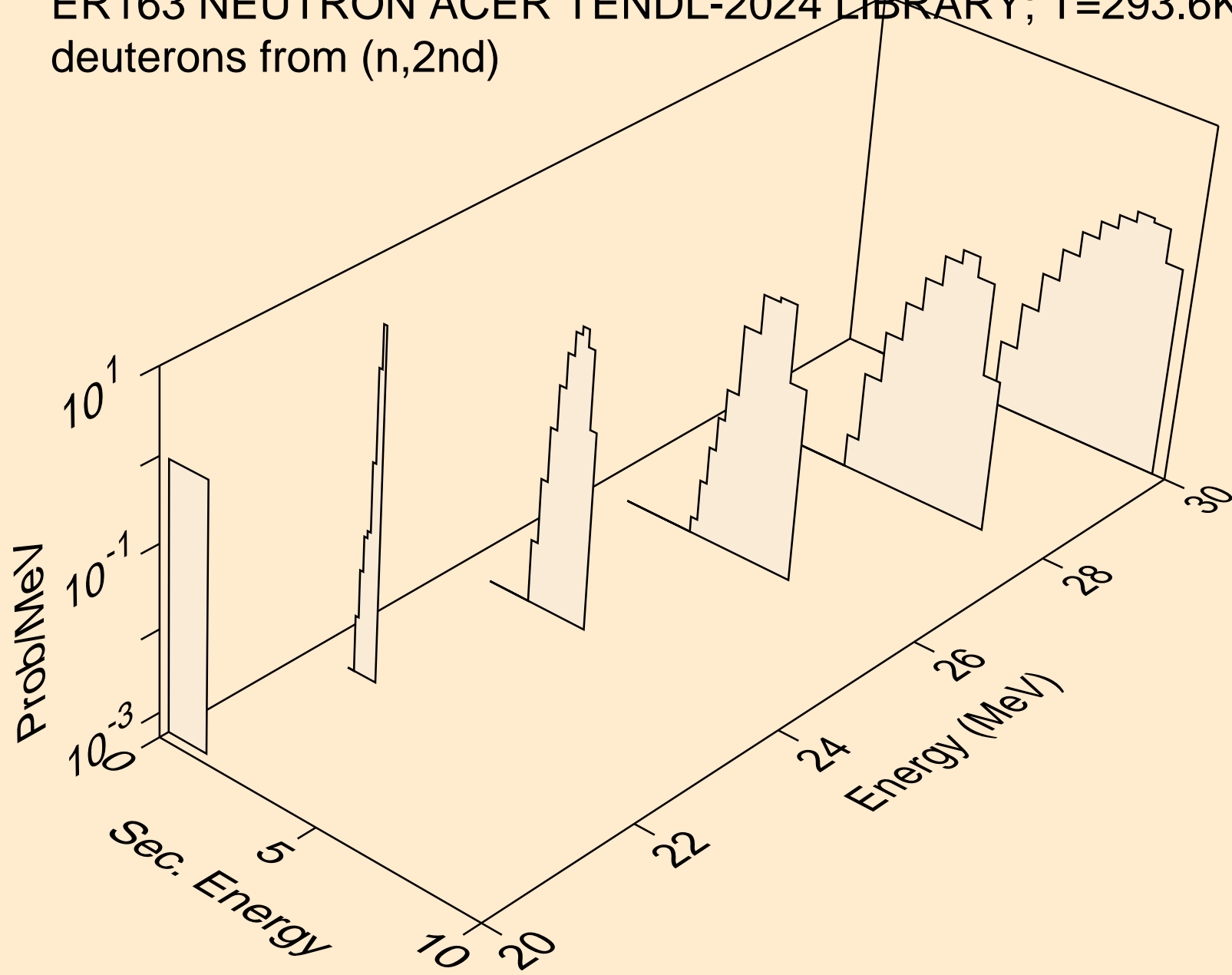
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protons from (n,pt)



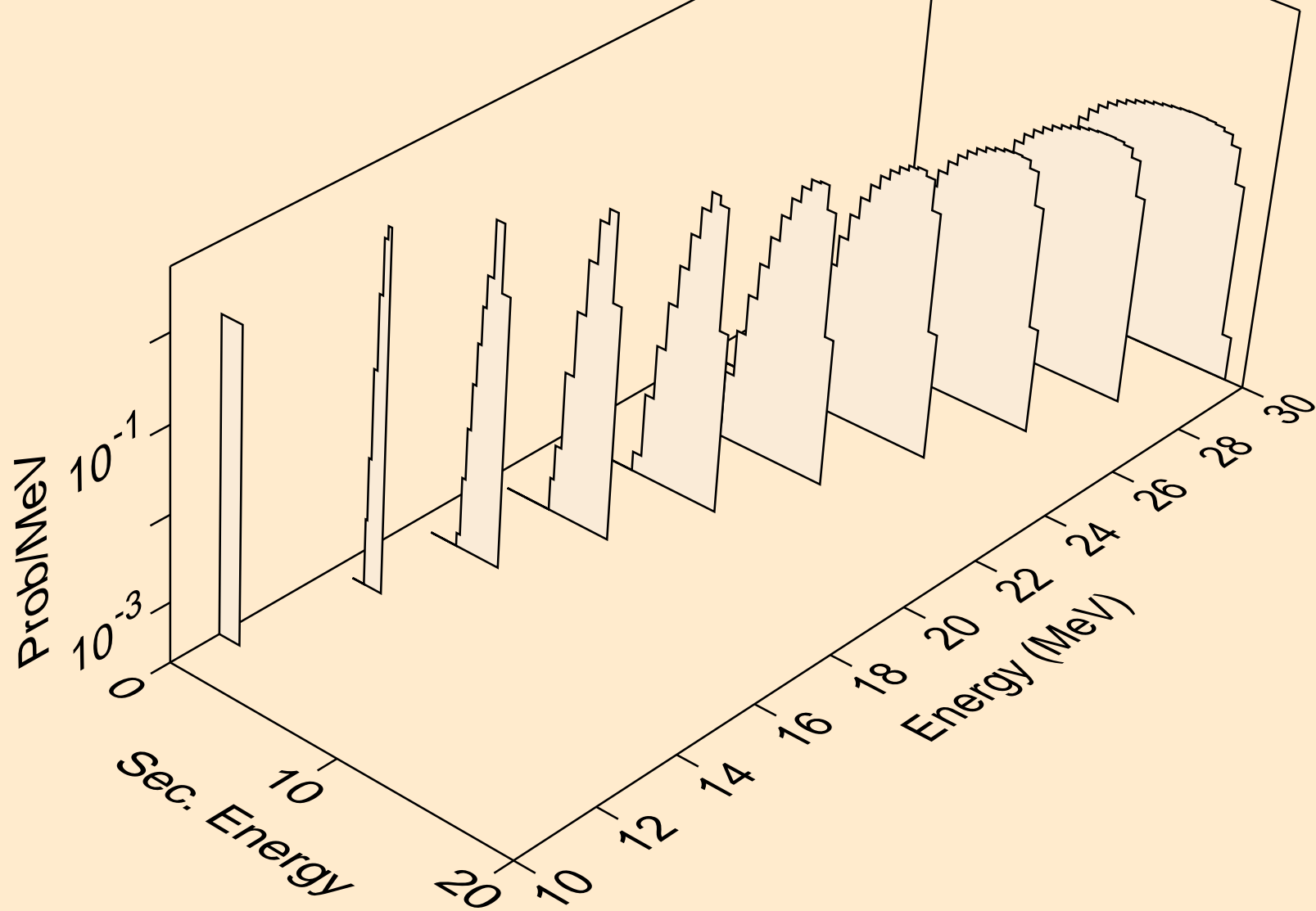
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deuterons from (n,x)



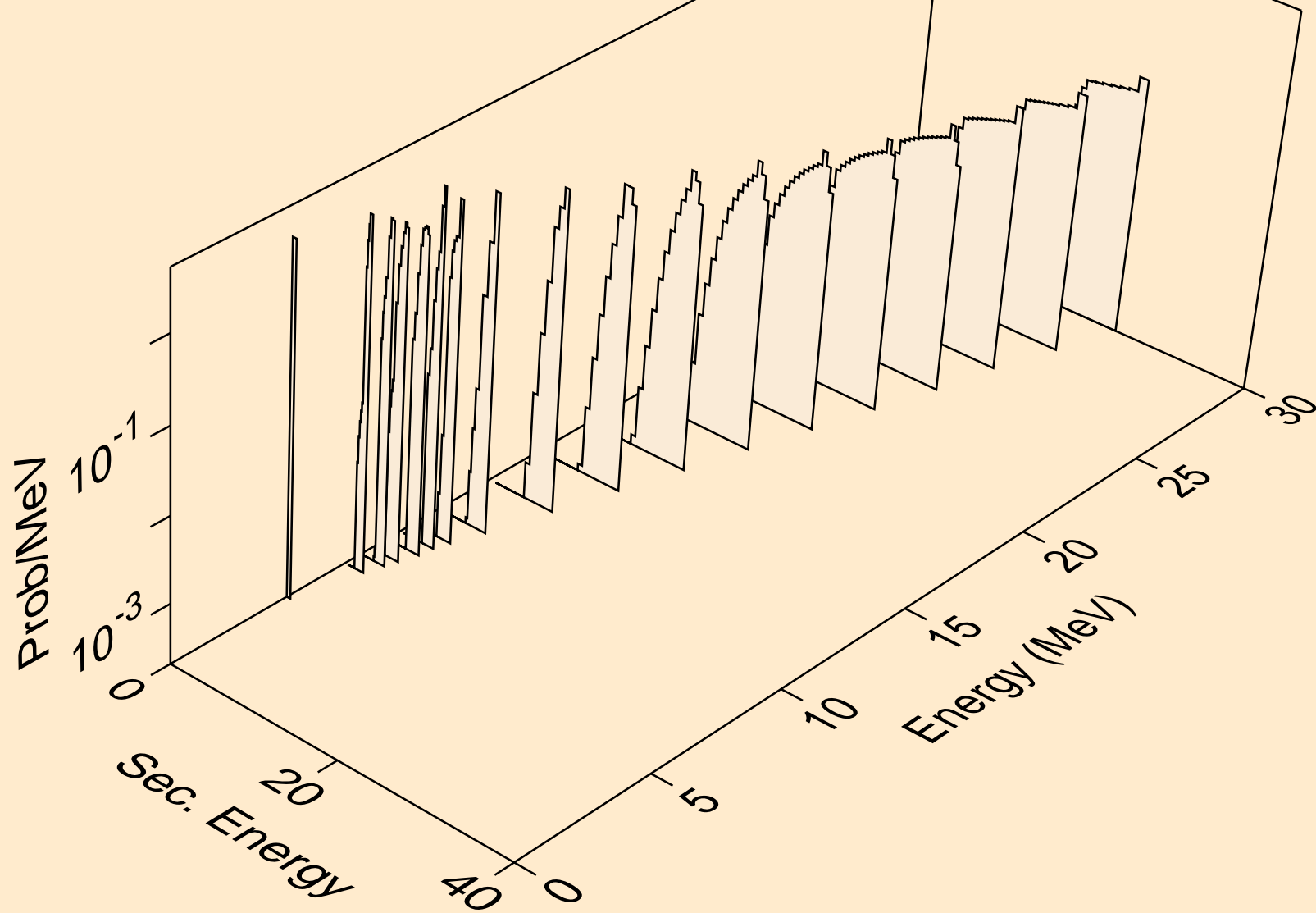
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deuterons from (n,2nd)



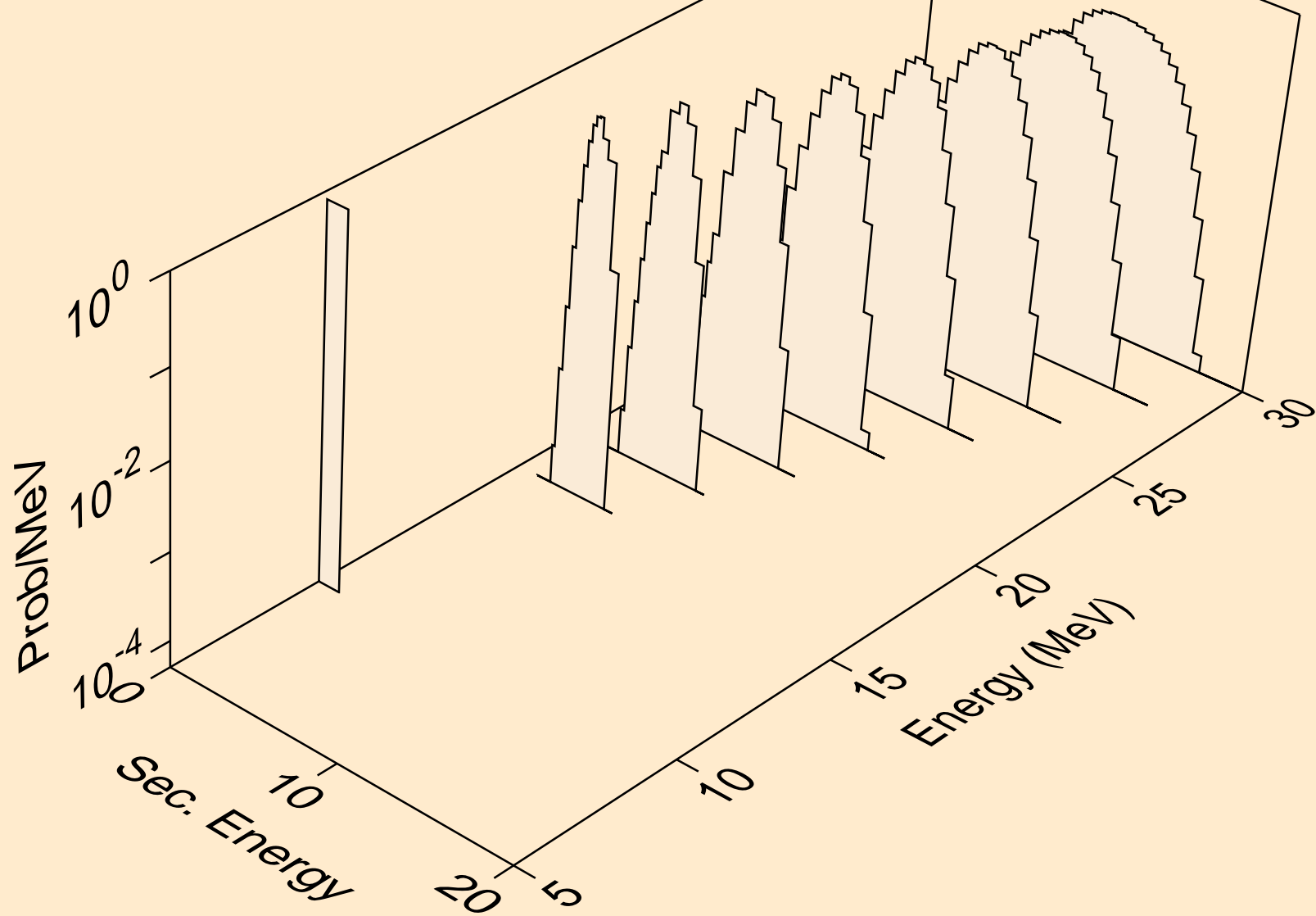
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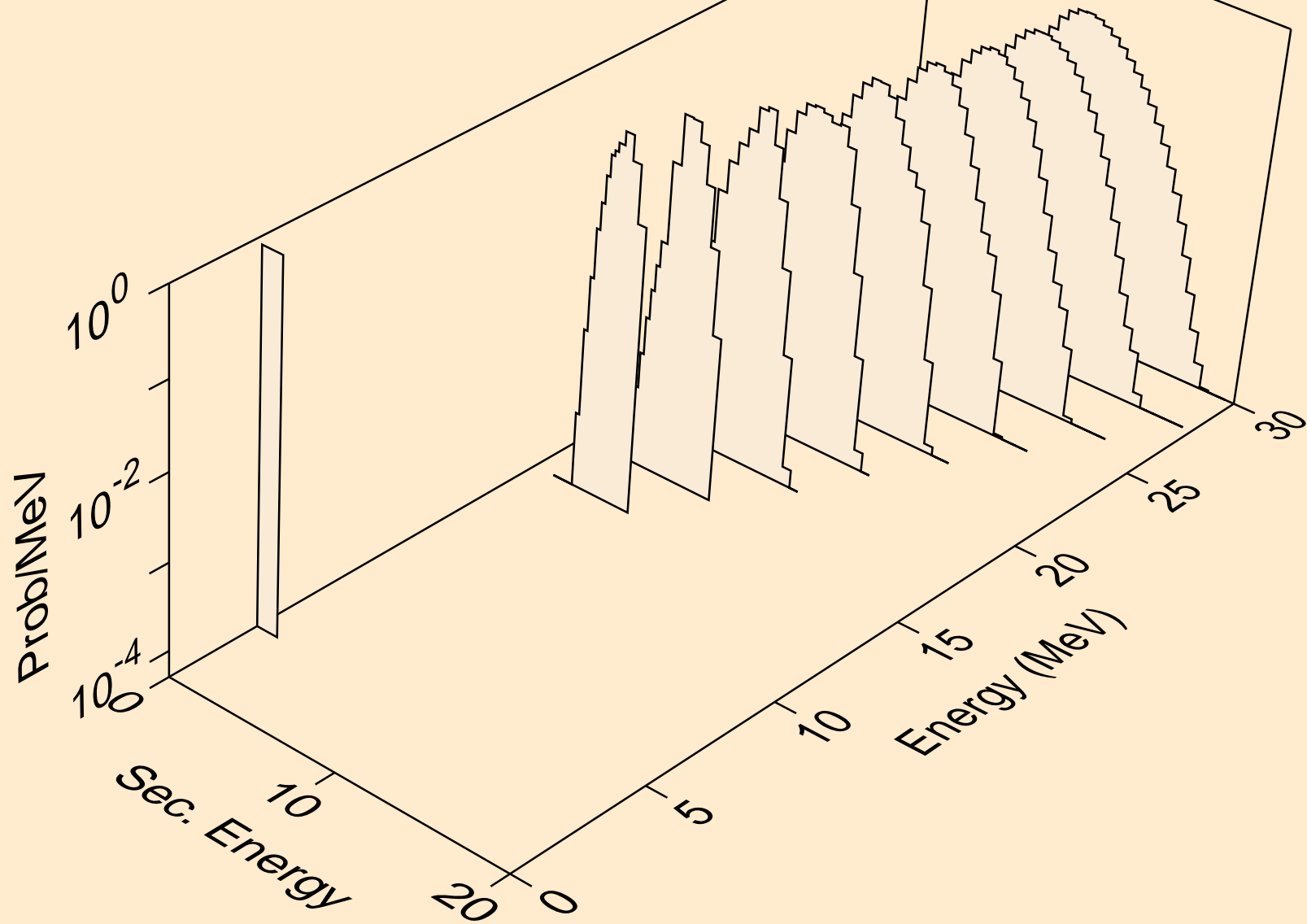
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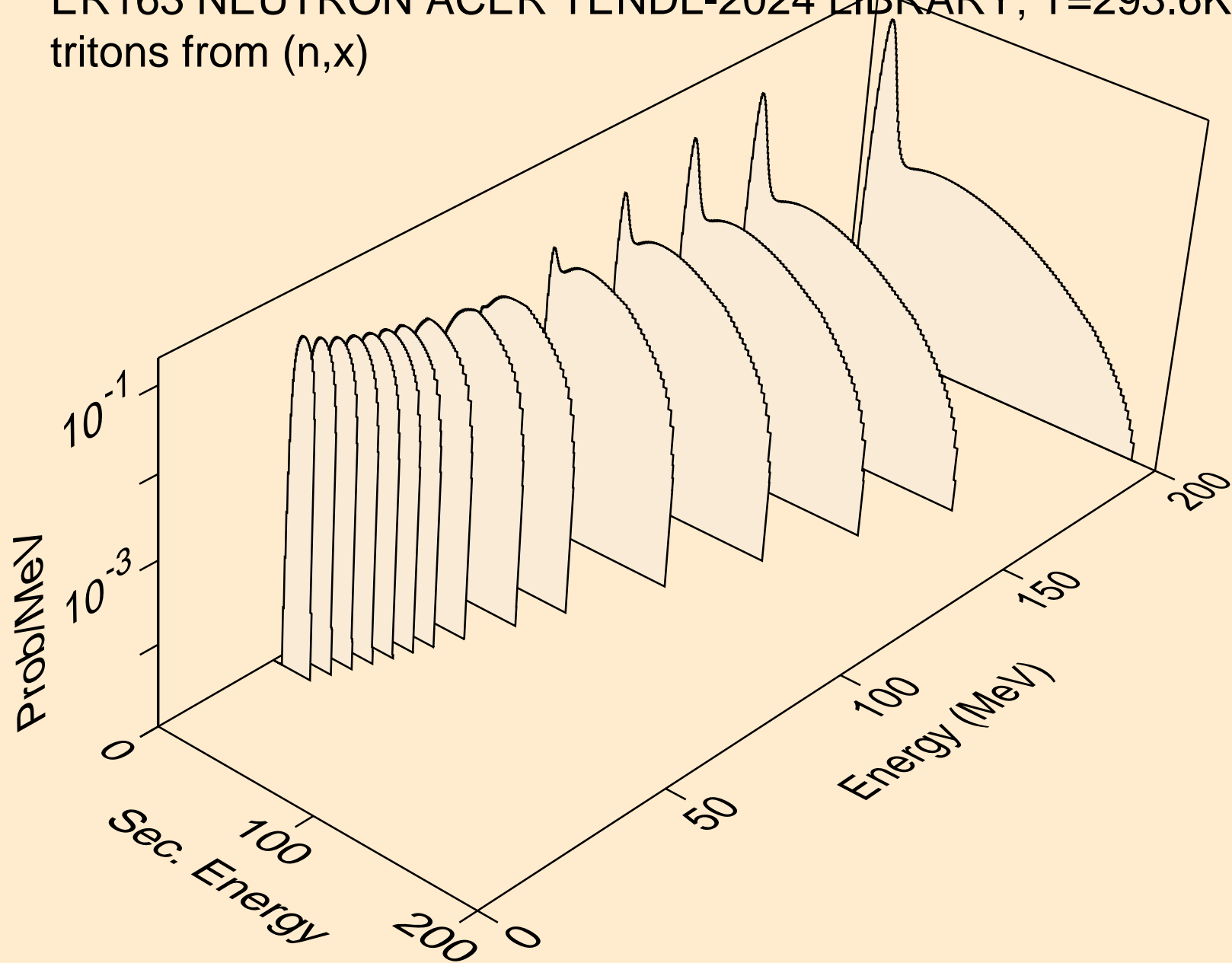
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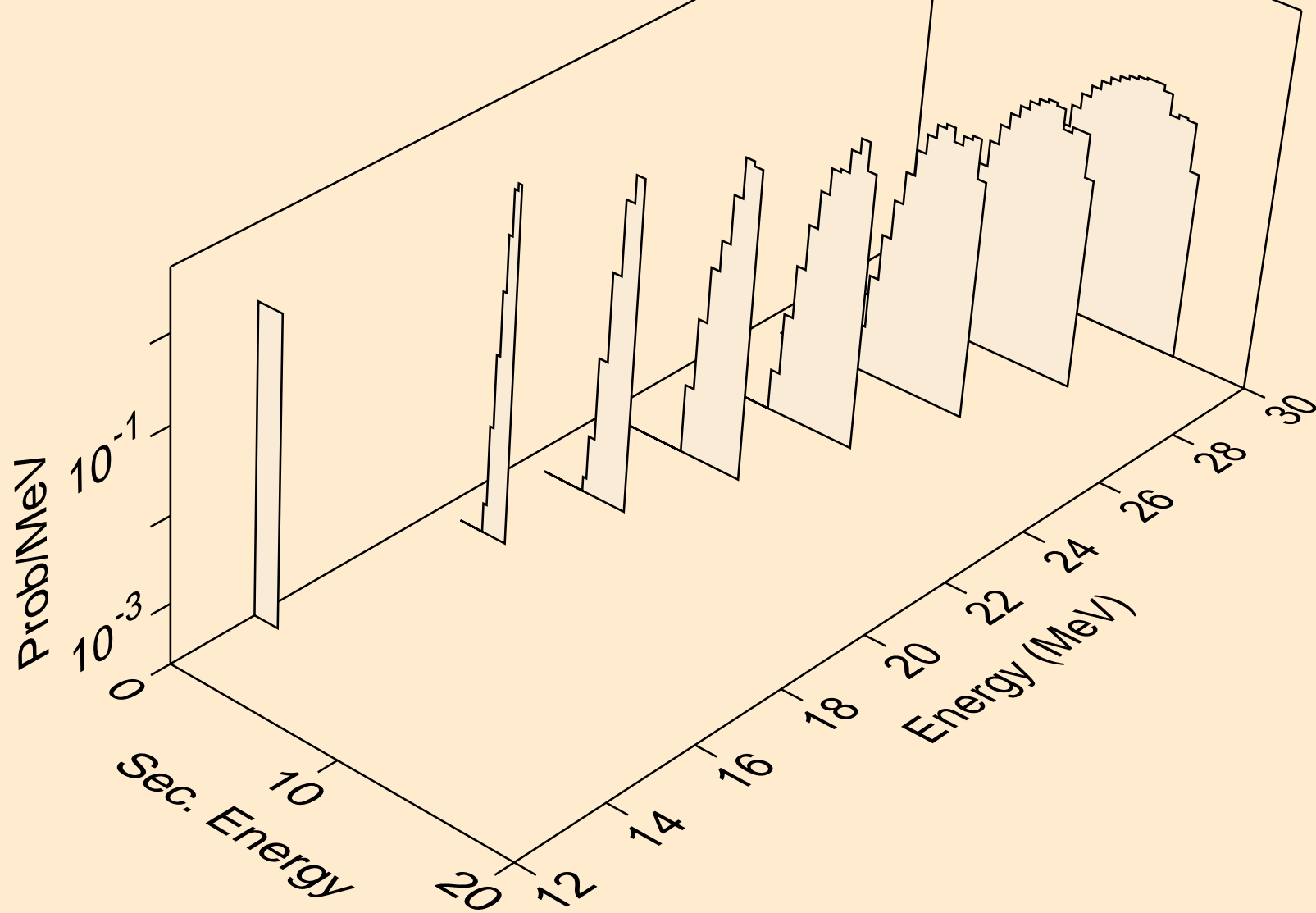
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
deuterons from (n,da)



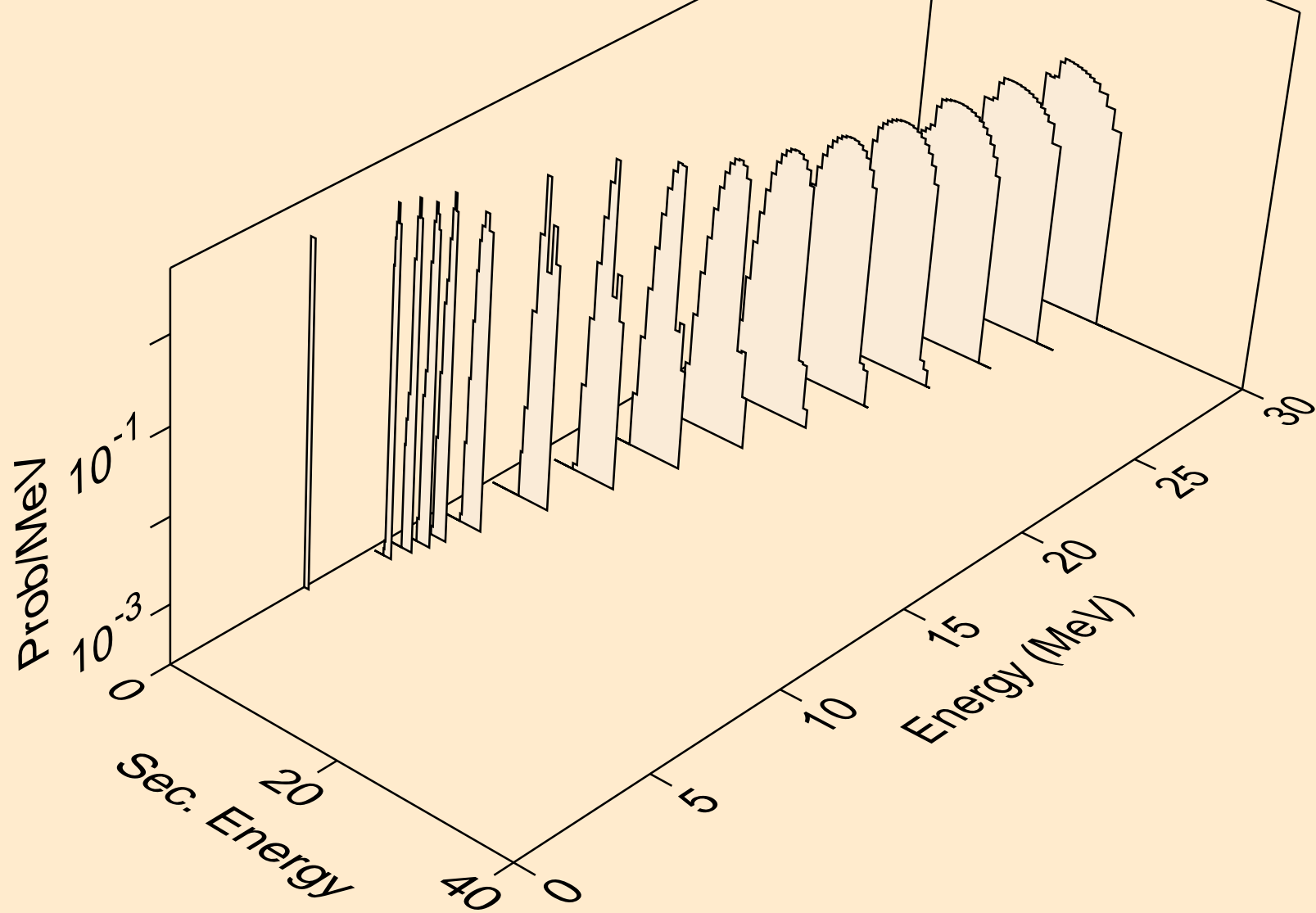
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
tritons from (n,x)



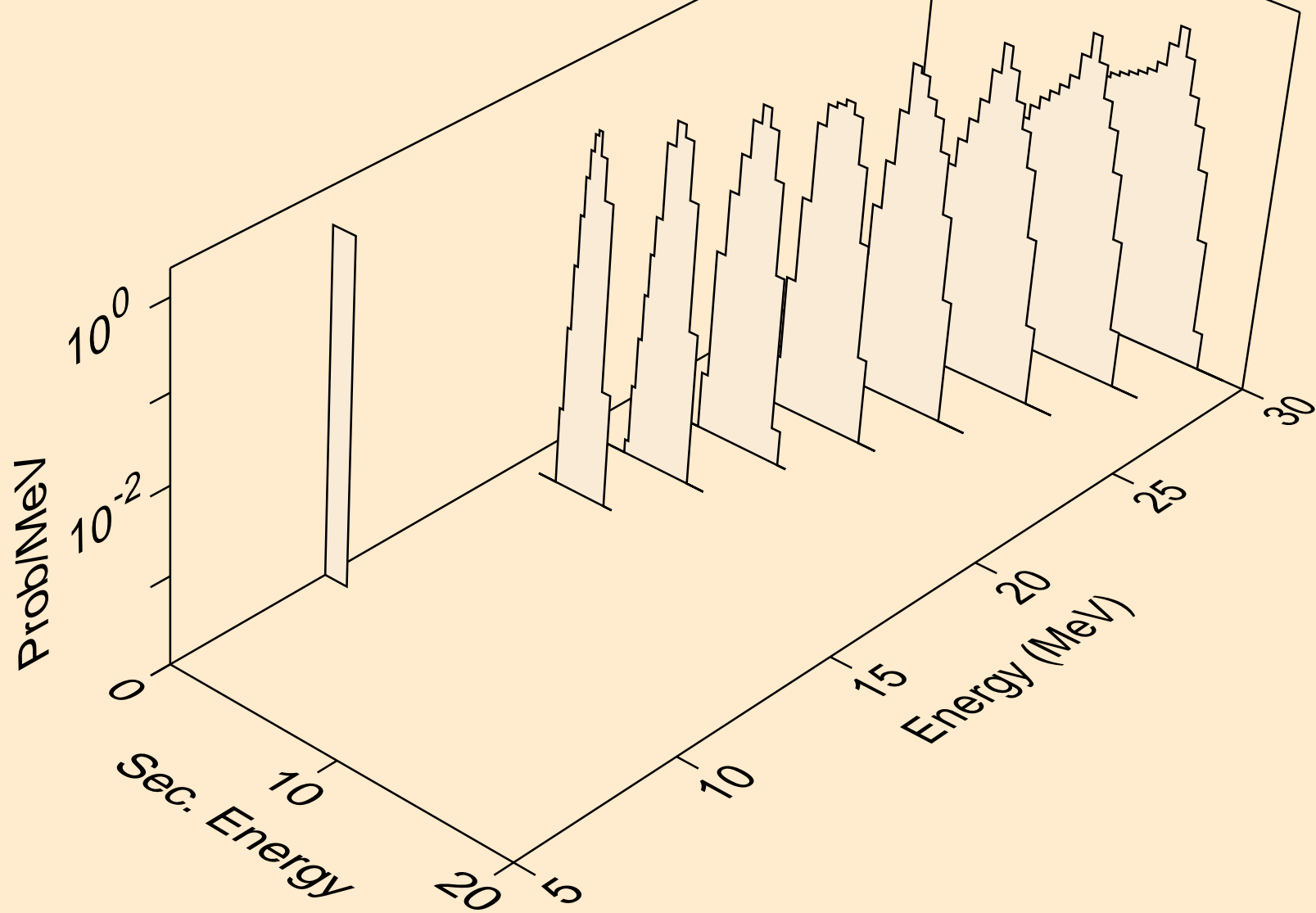
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
tritons from (n,n\*)t



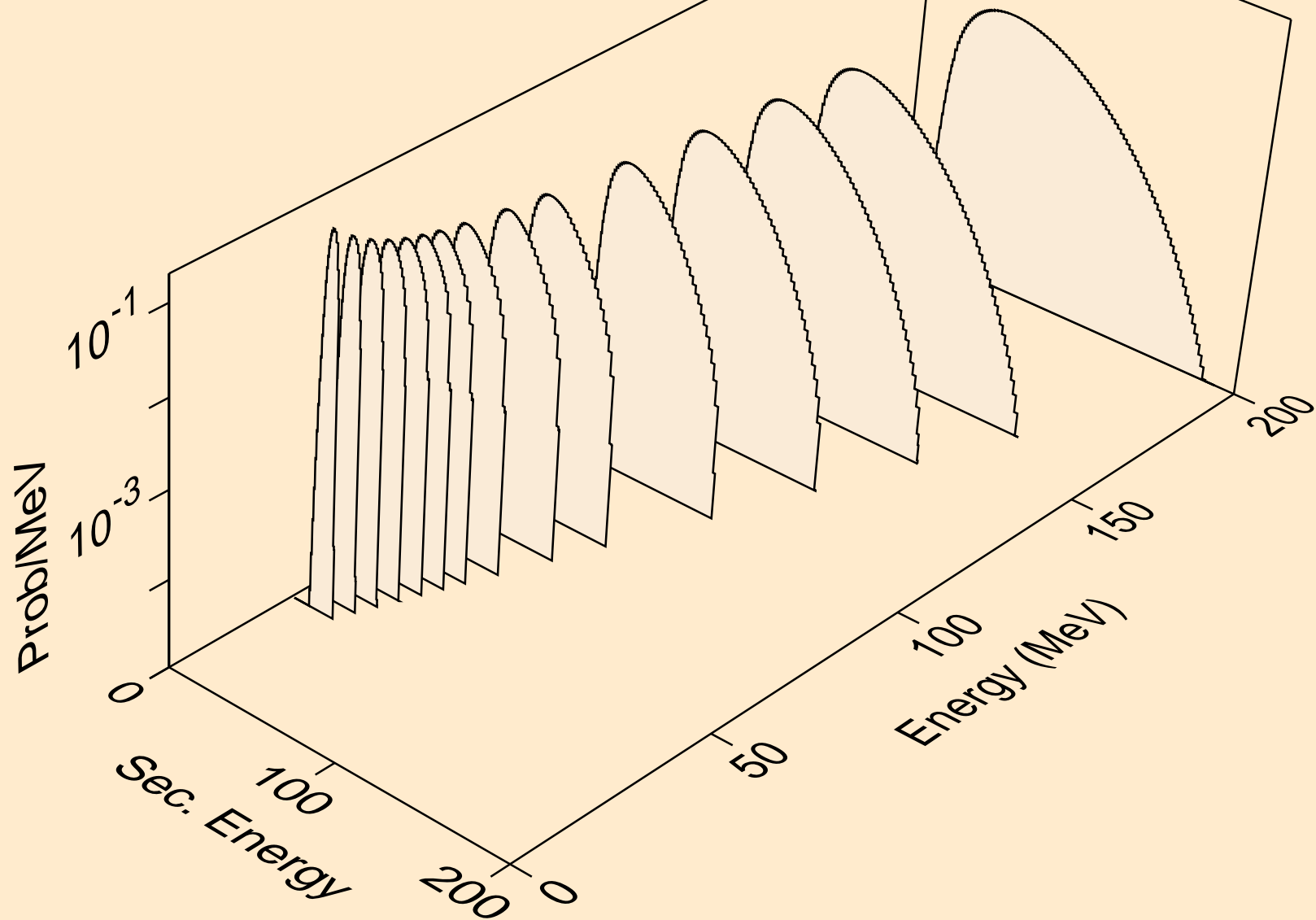
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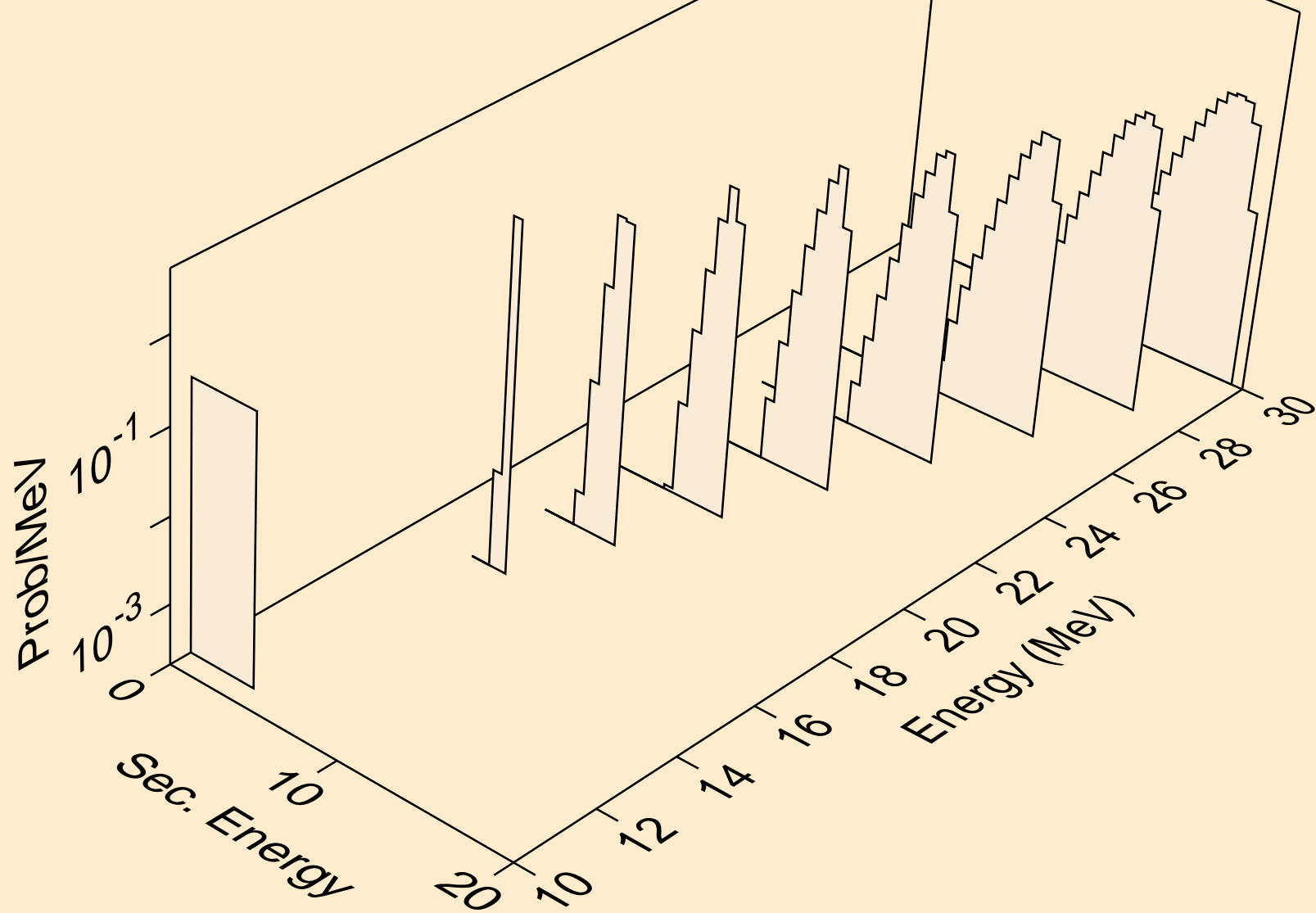
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tritons from (n,pt)



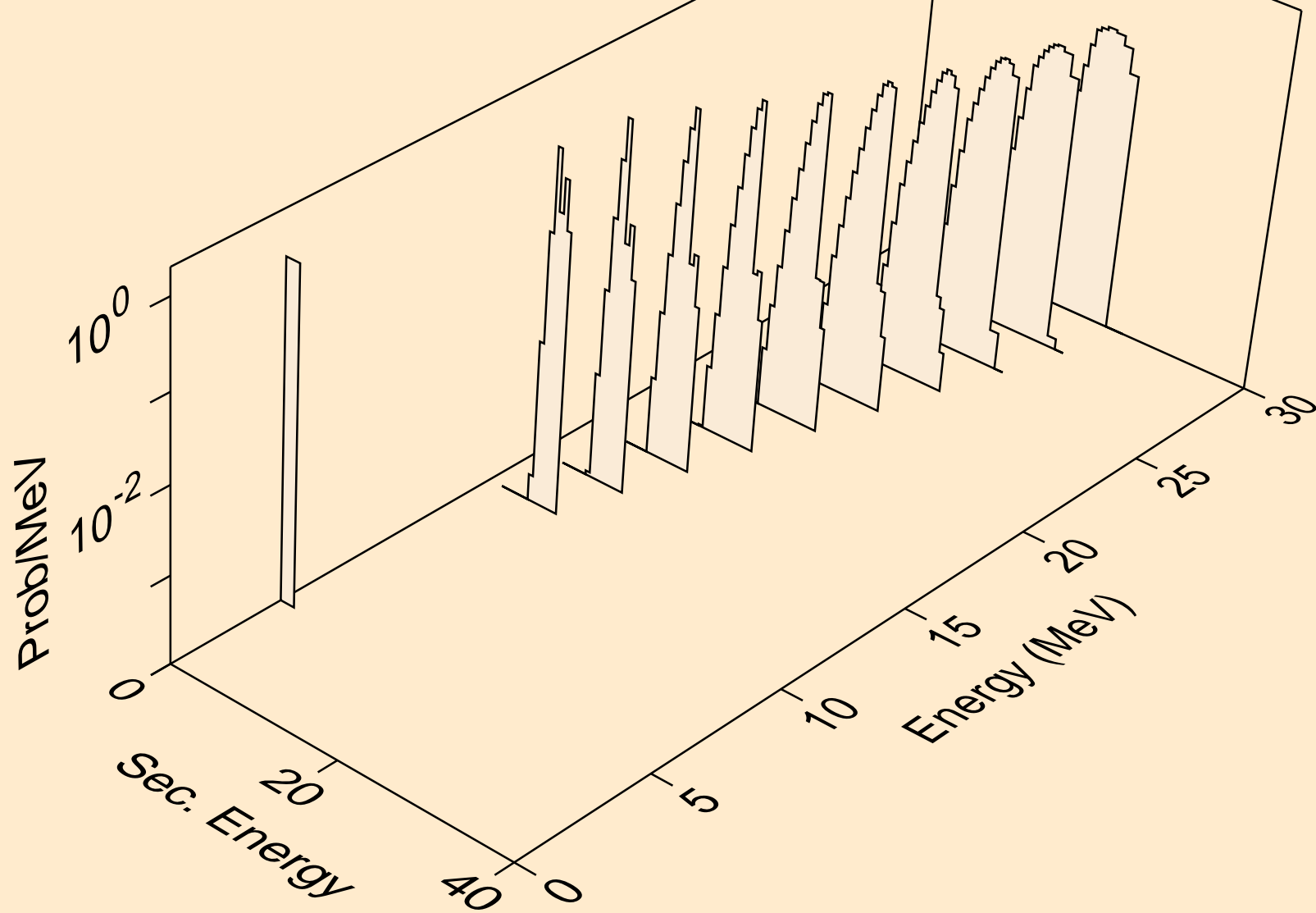
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
he3s from (n,x)



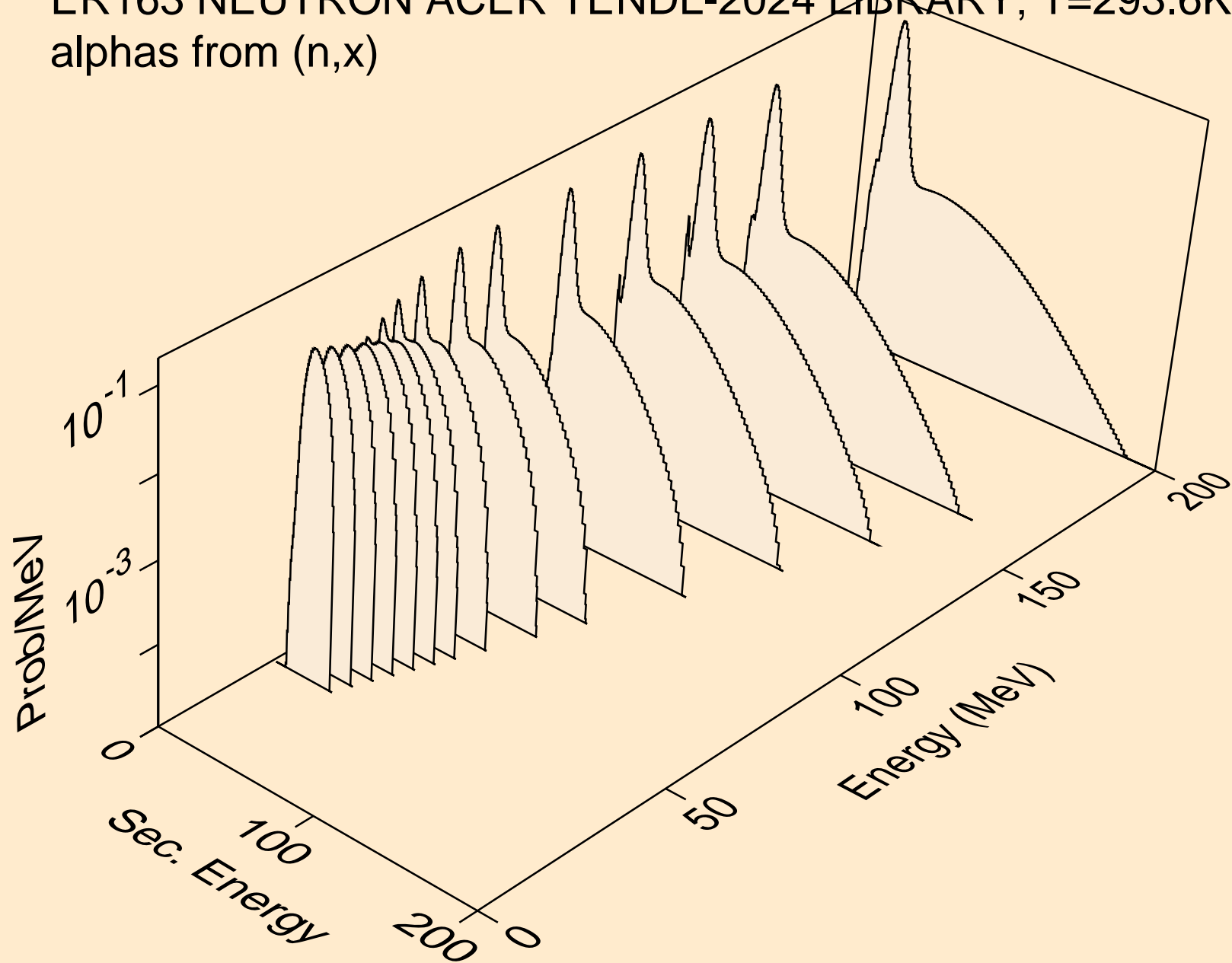
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he3s from (n,n\*)he3



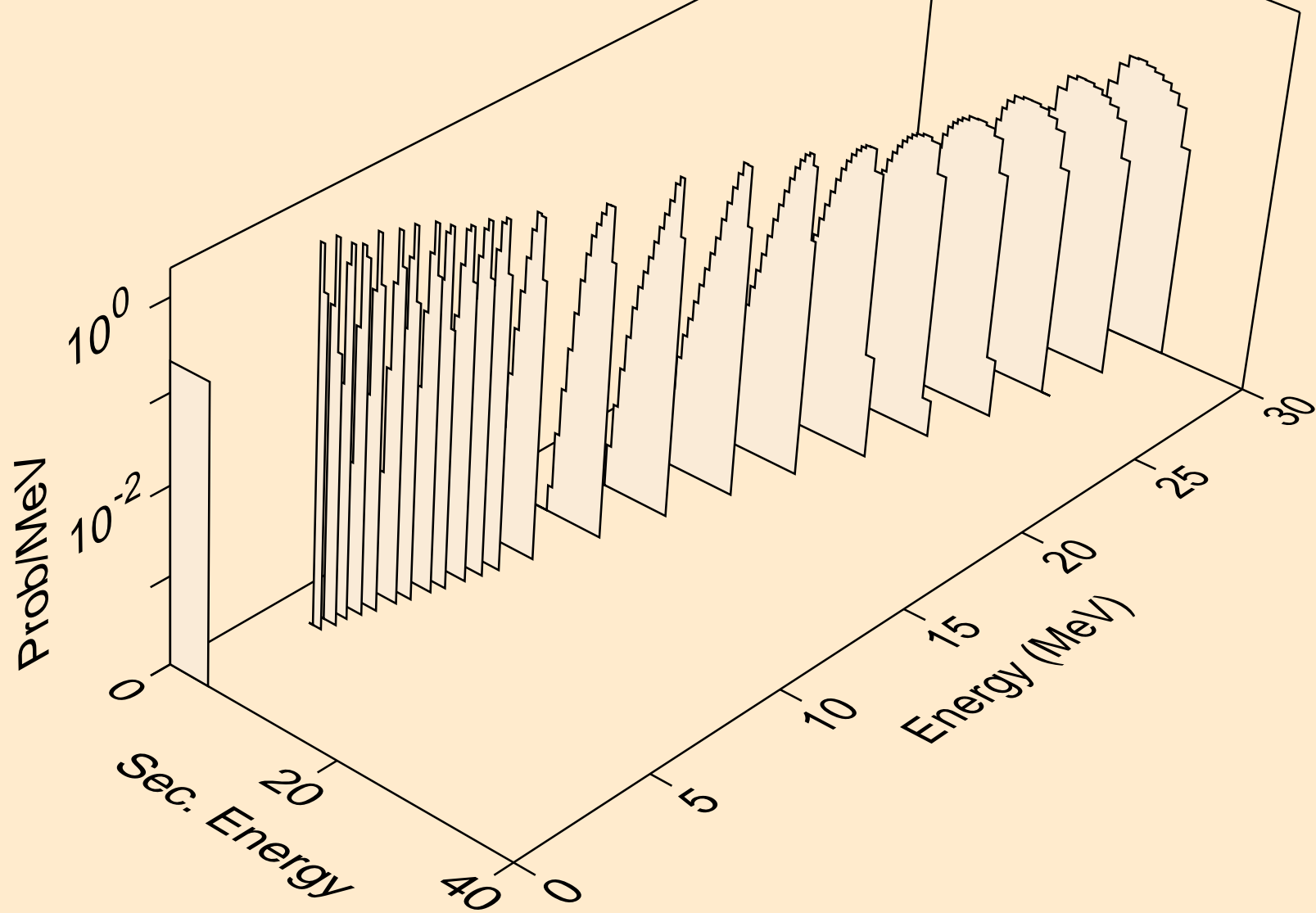
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he3s from (n,he3)



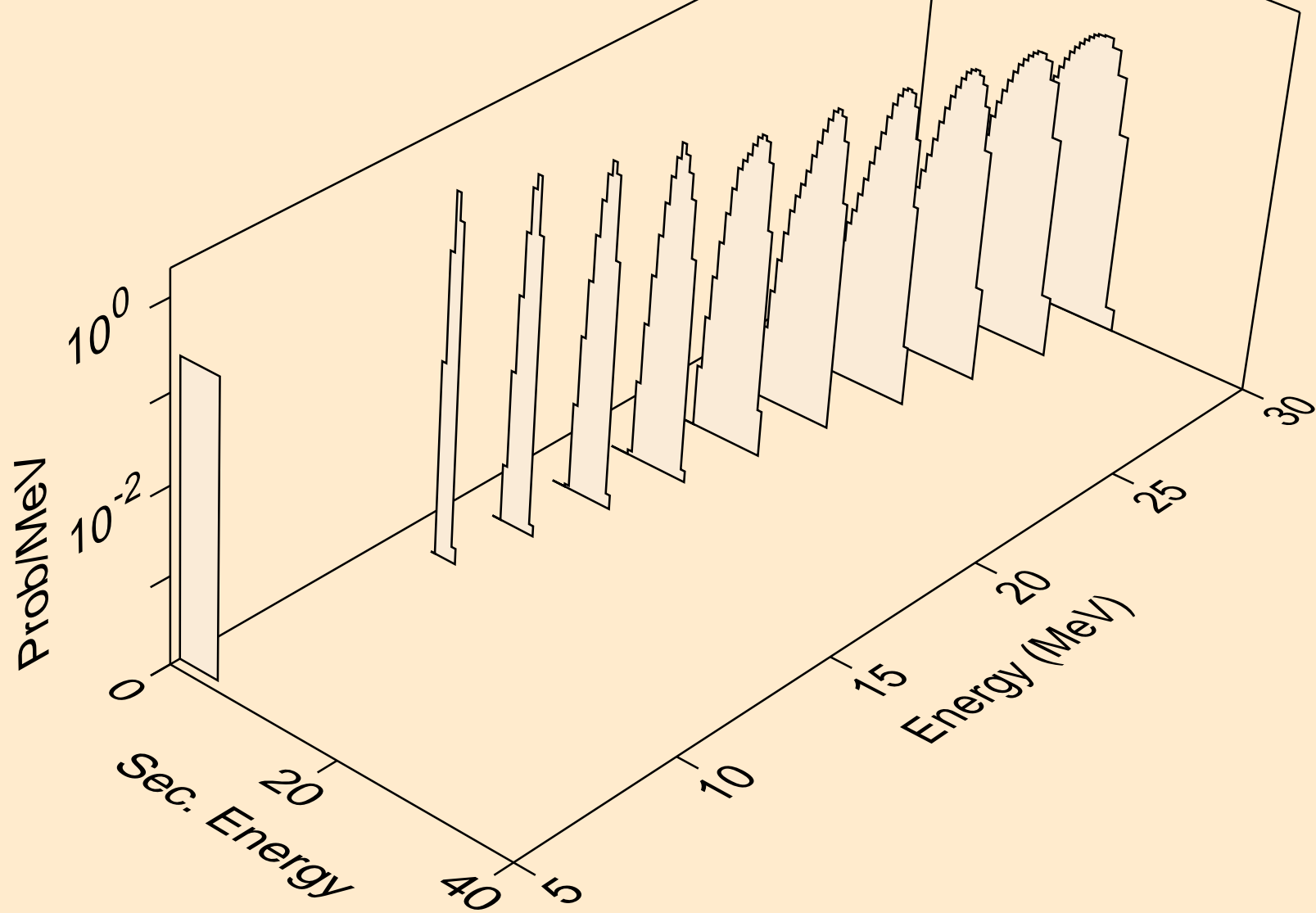
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alphas from (n,x)



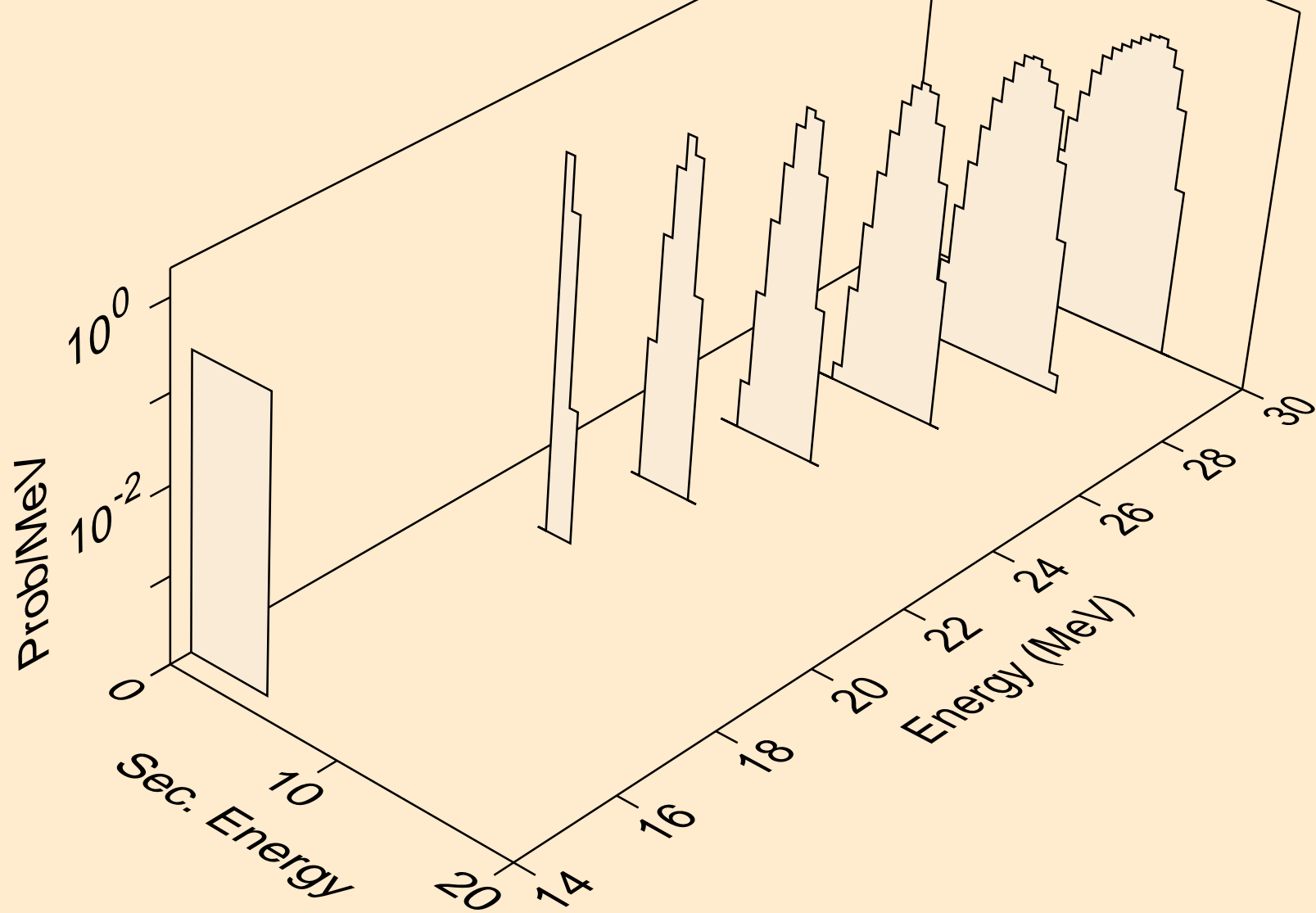
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alphas from (n,n\*)a



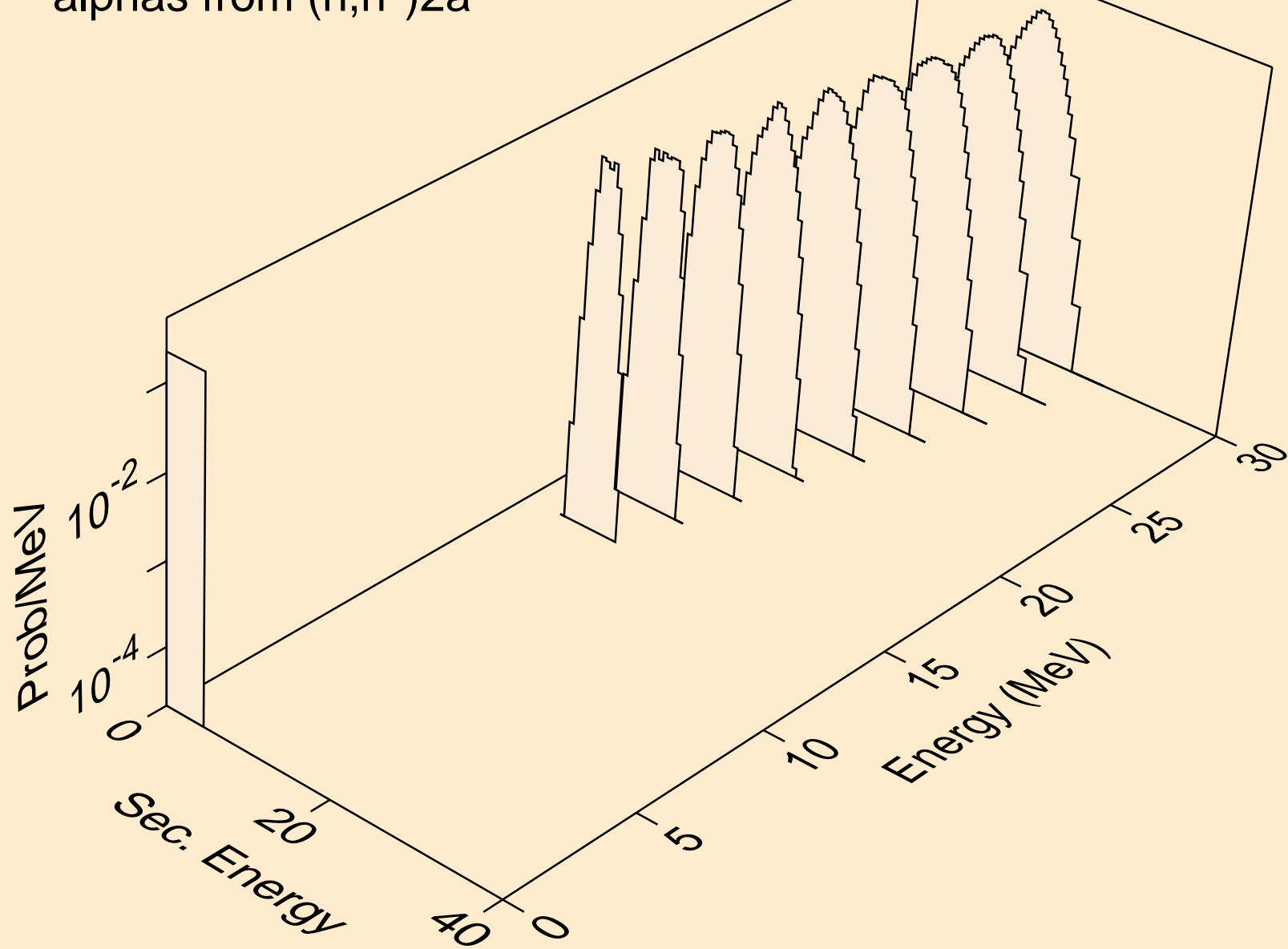
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alphas from (n,2n)a



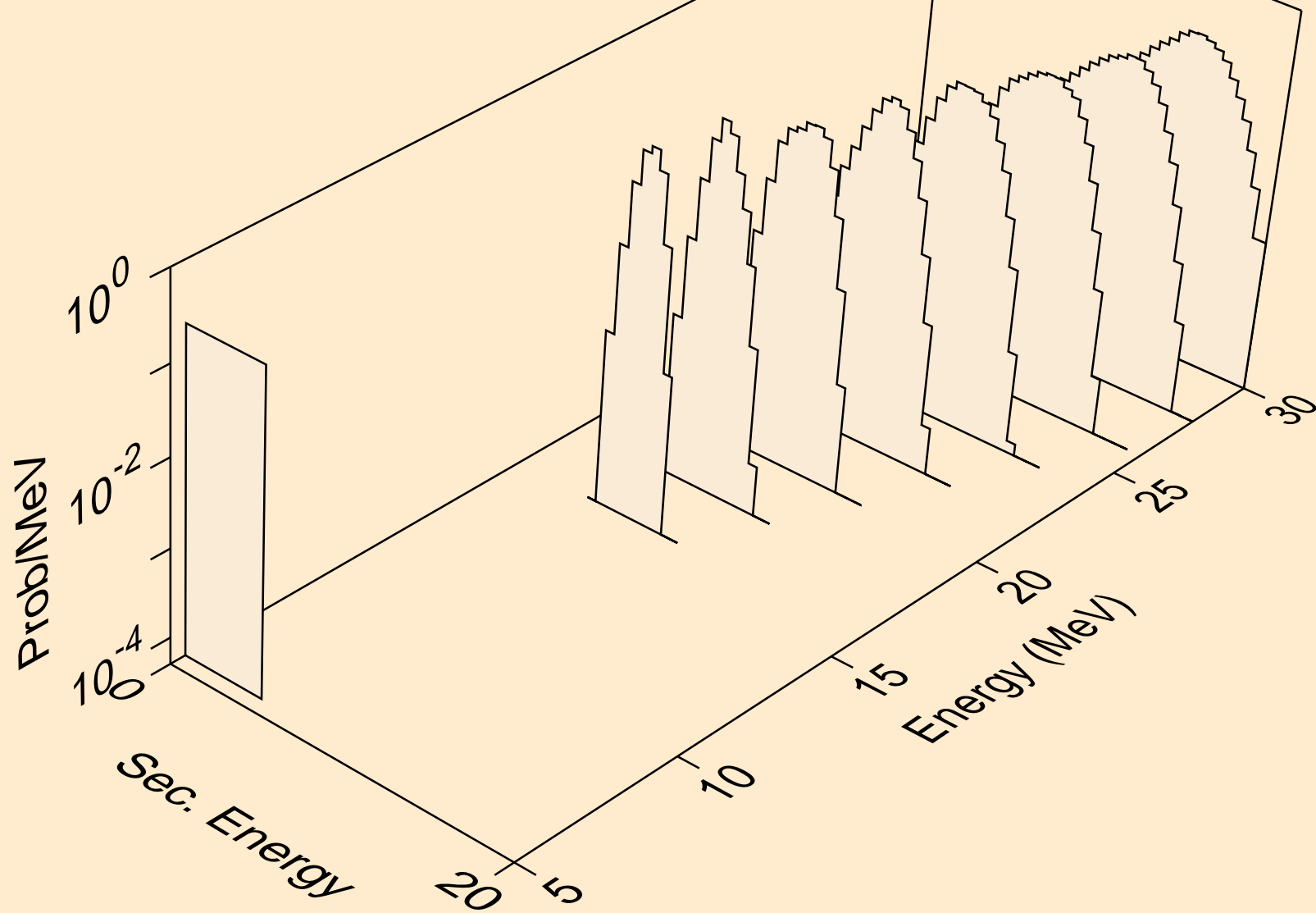
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alphas from (n,3n)a



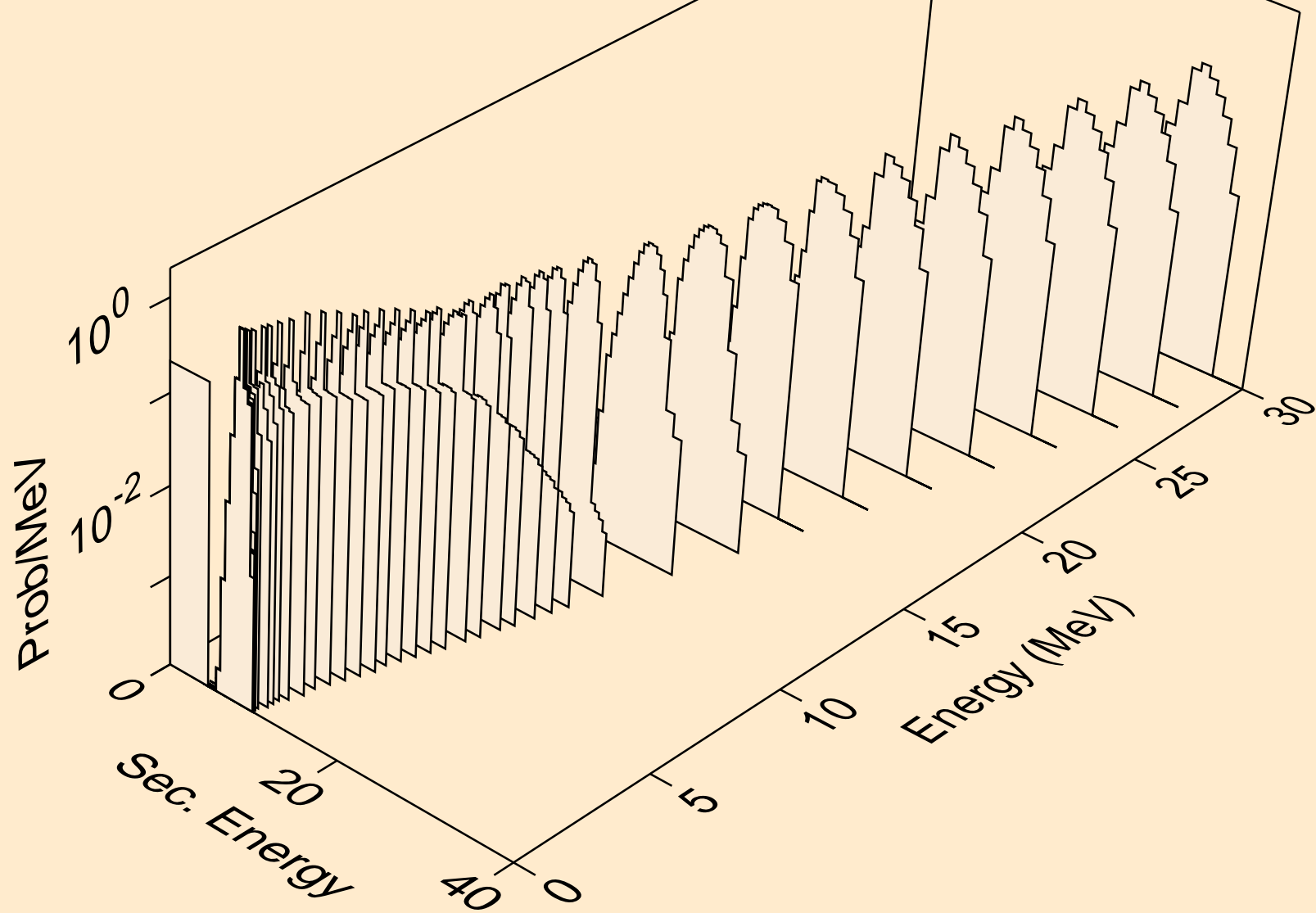
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alphas from (n,n\*)2a



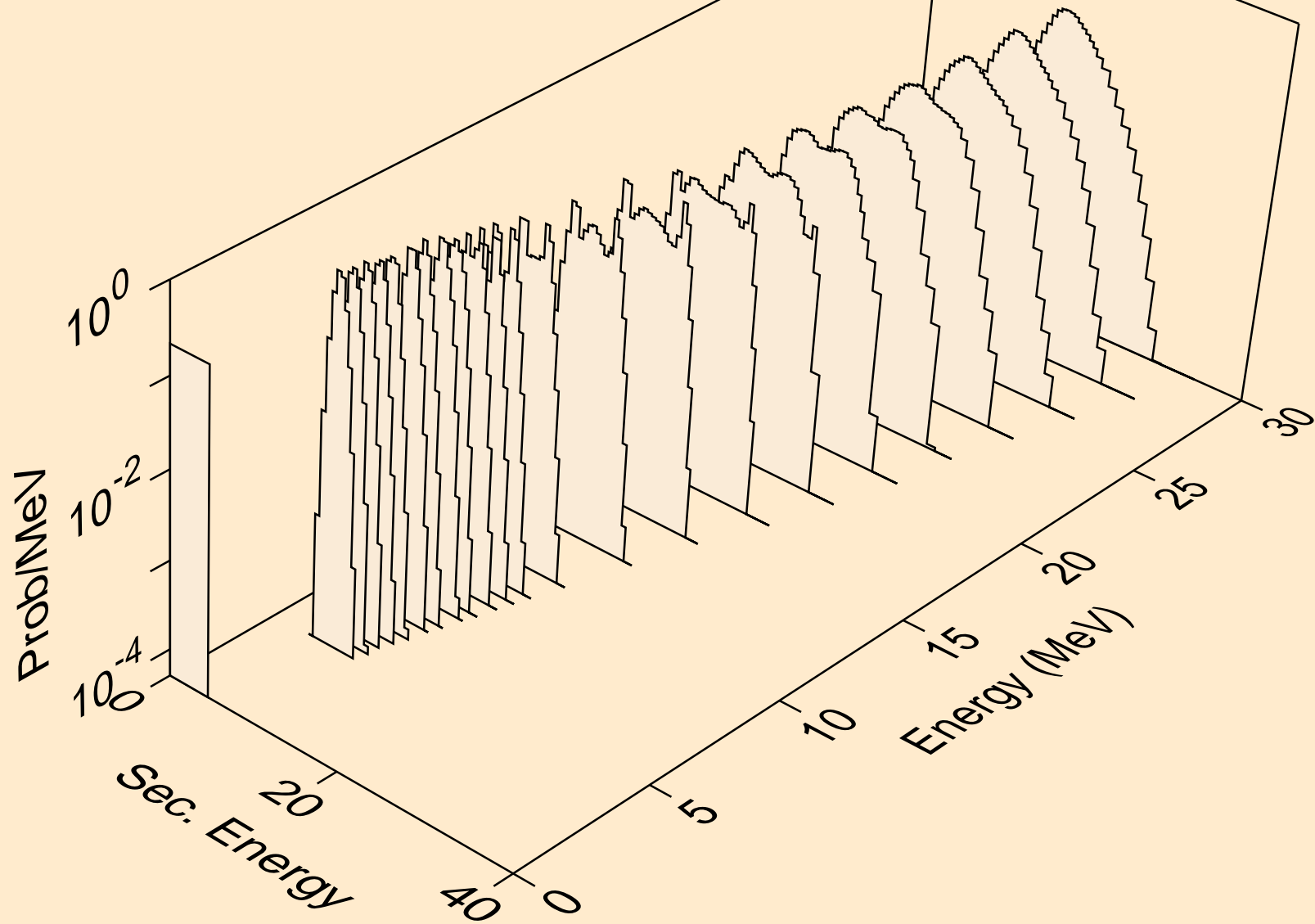
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,npa)



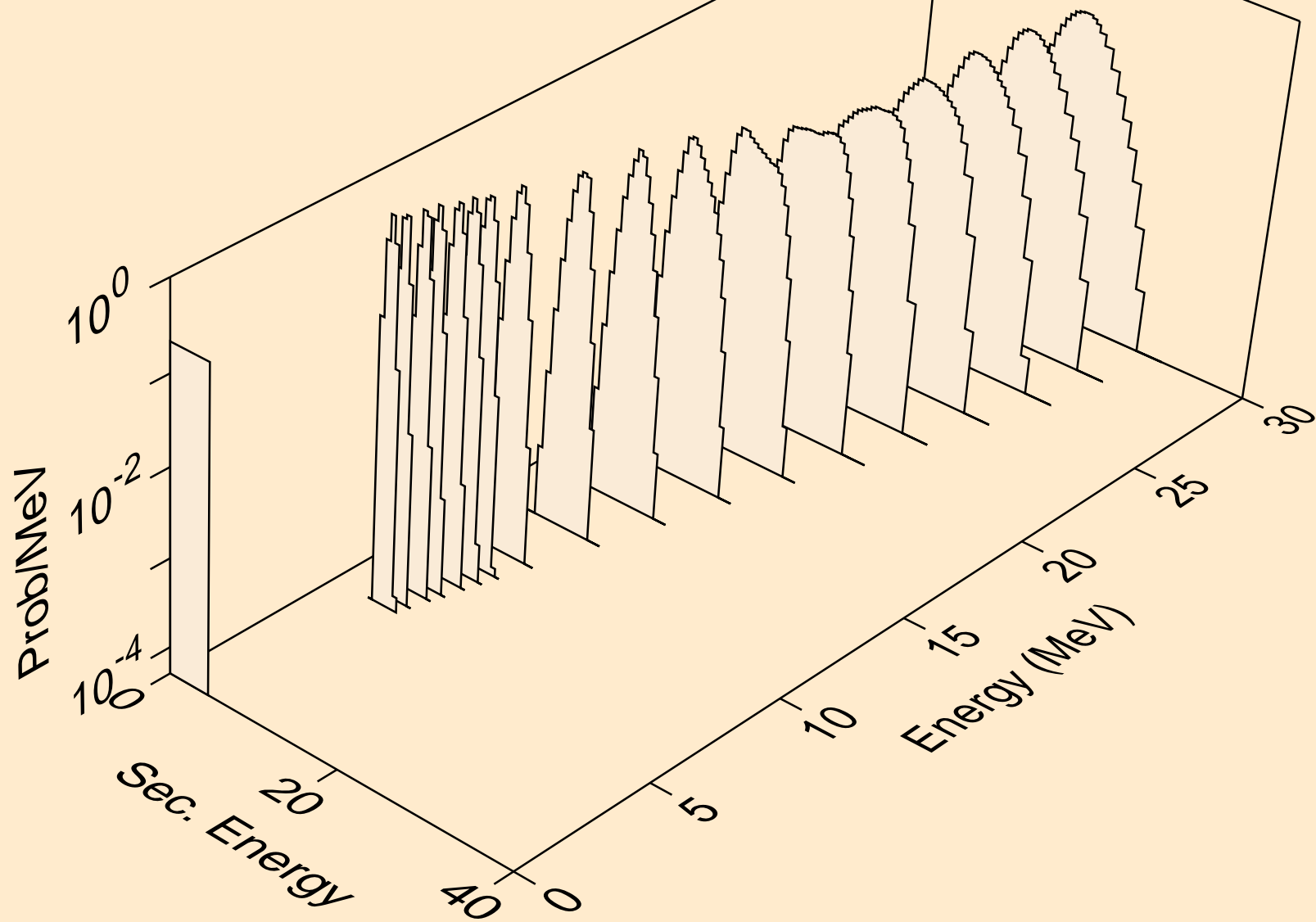
ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,a)



ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,2a)



ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,pa)



ER163 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,da)

