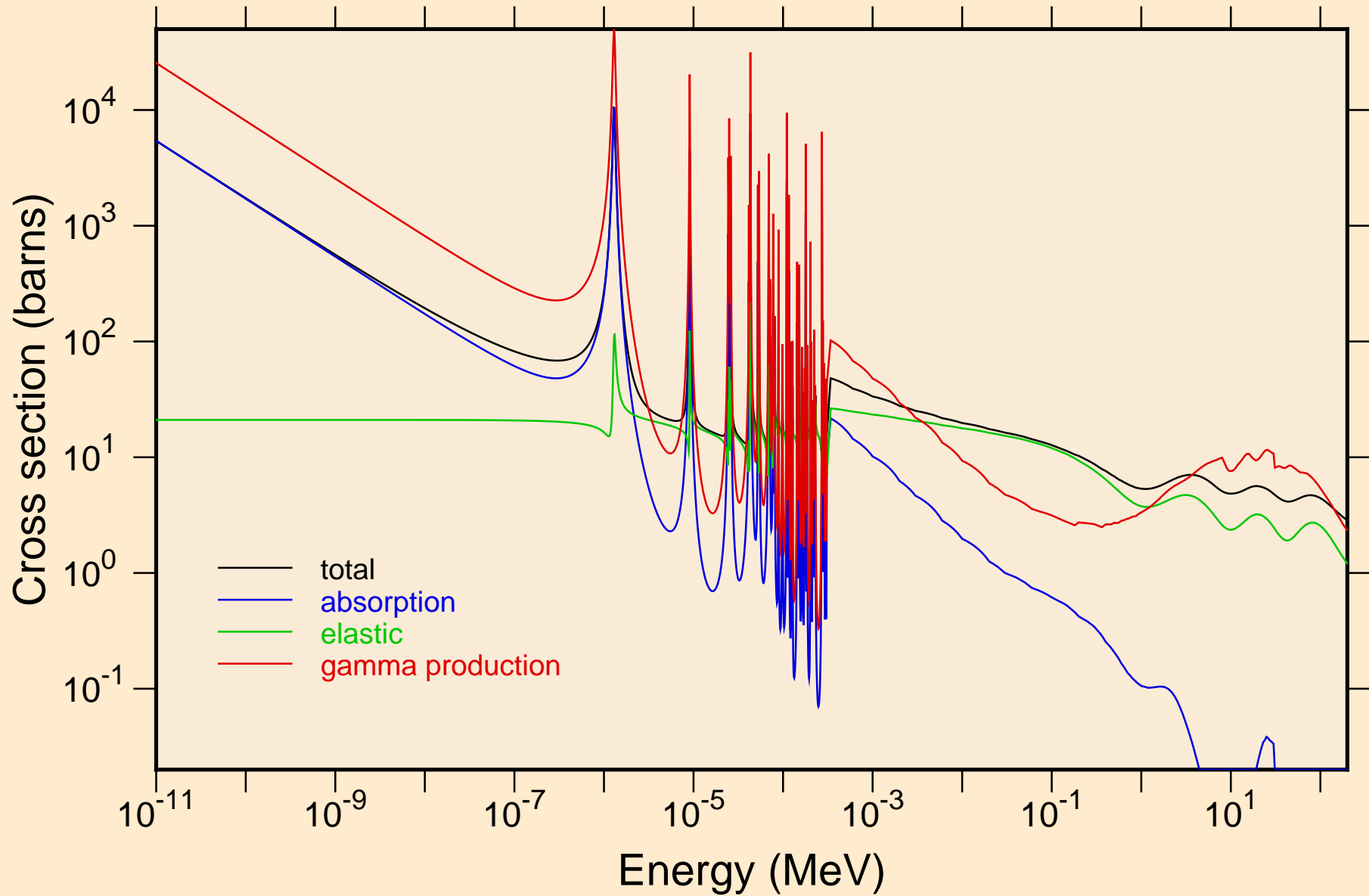
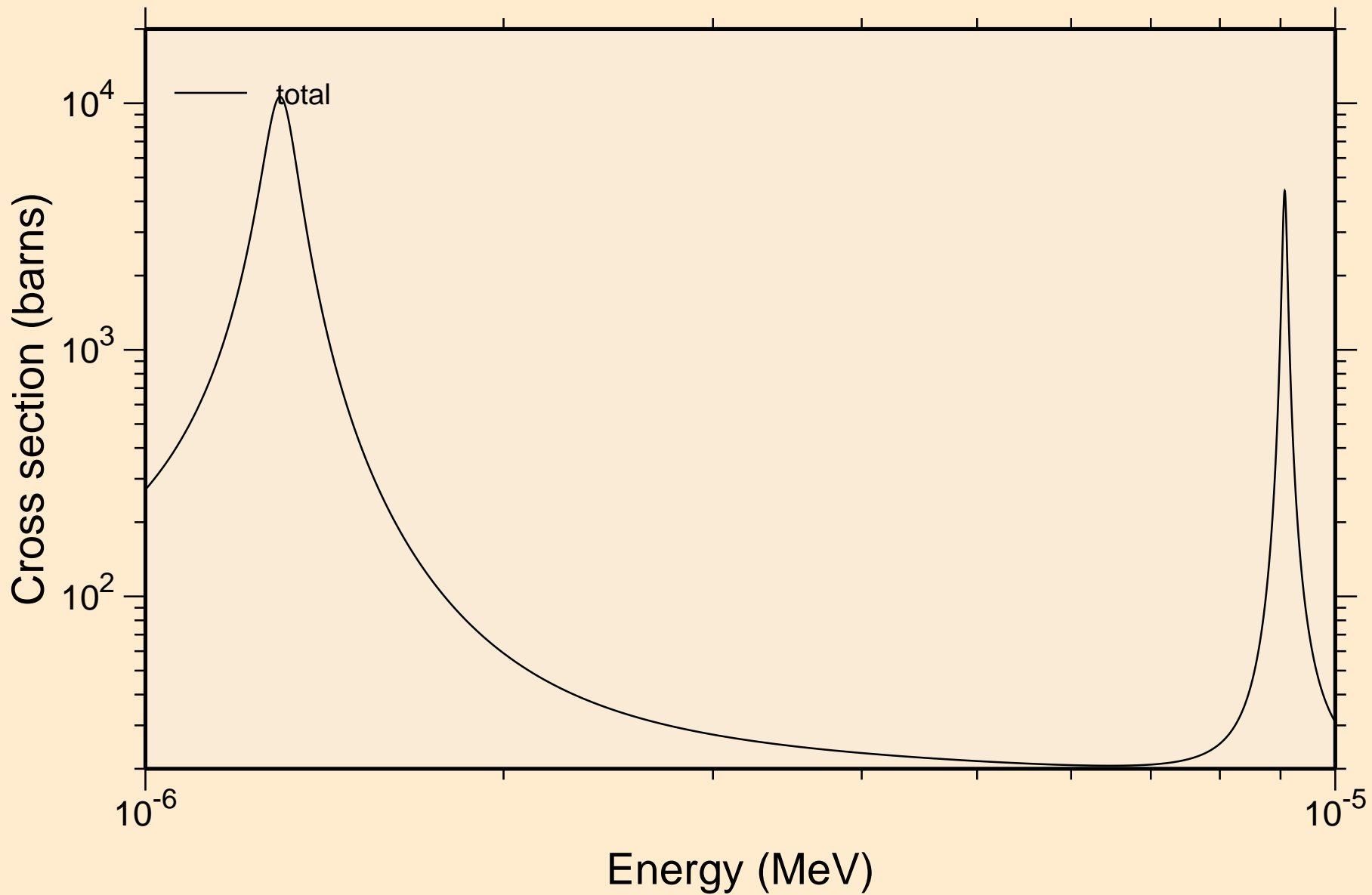


# IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

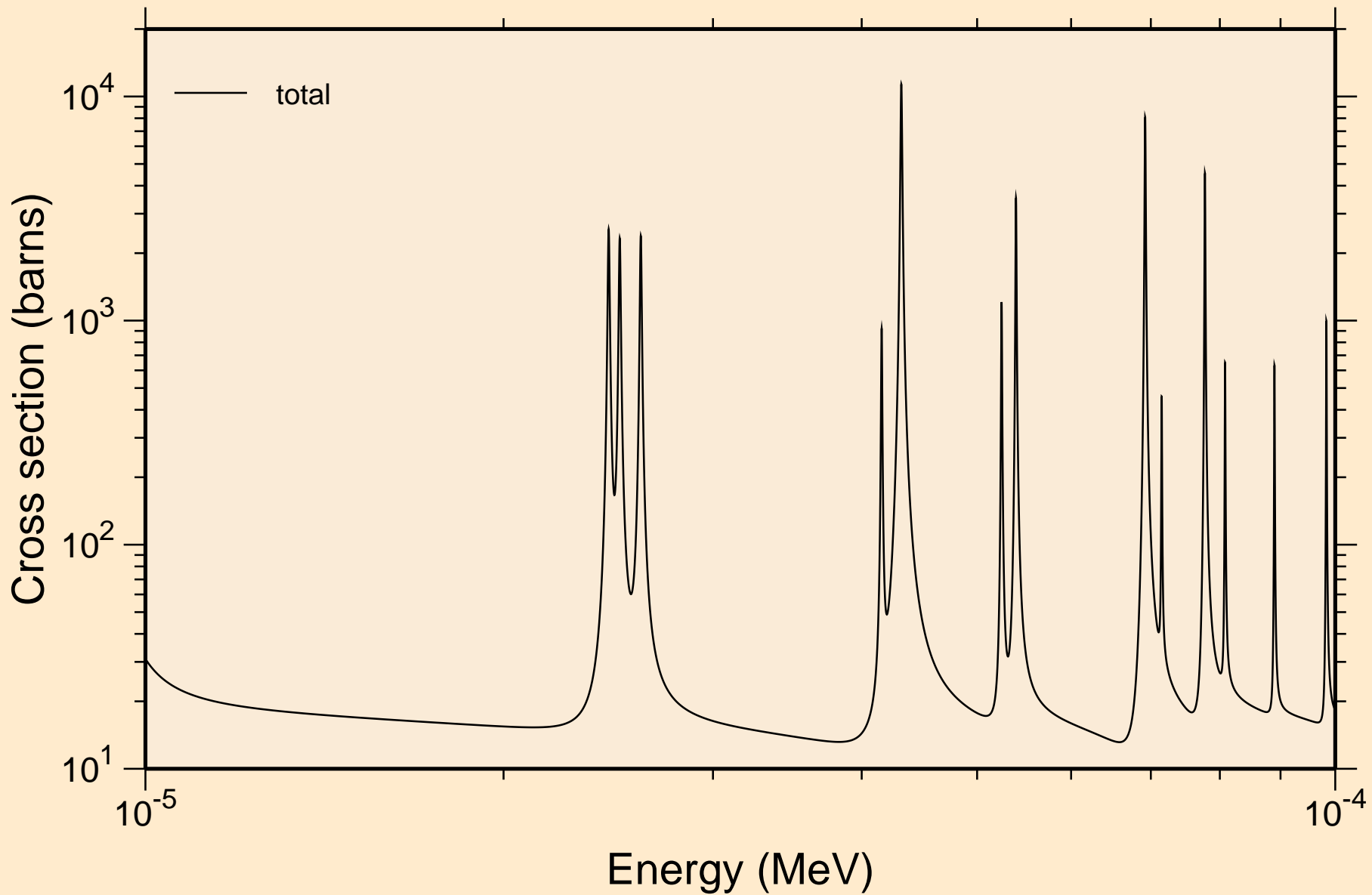
## Principal cross sections



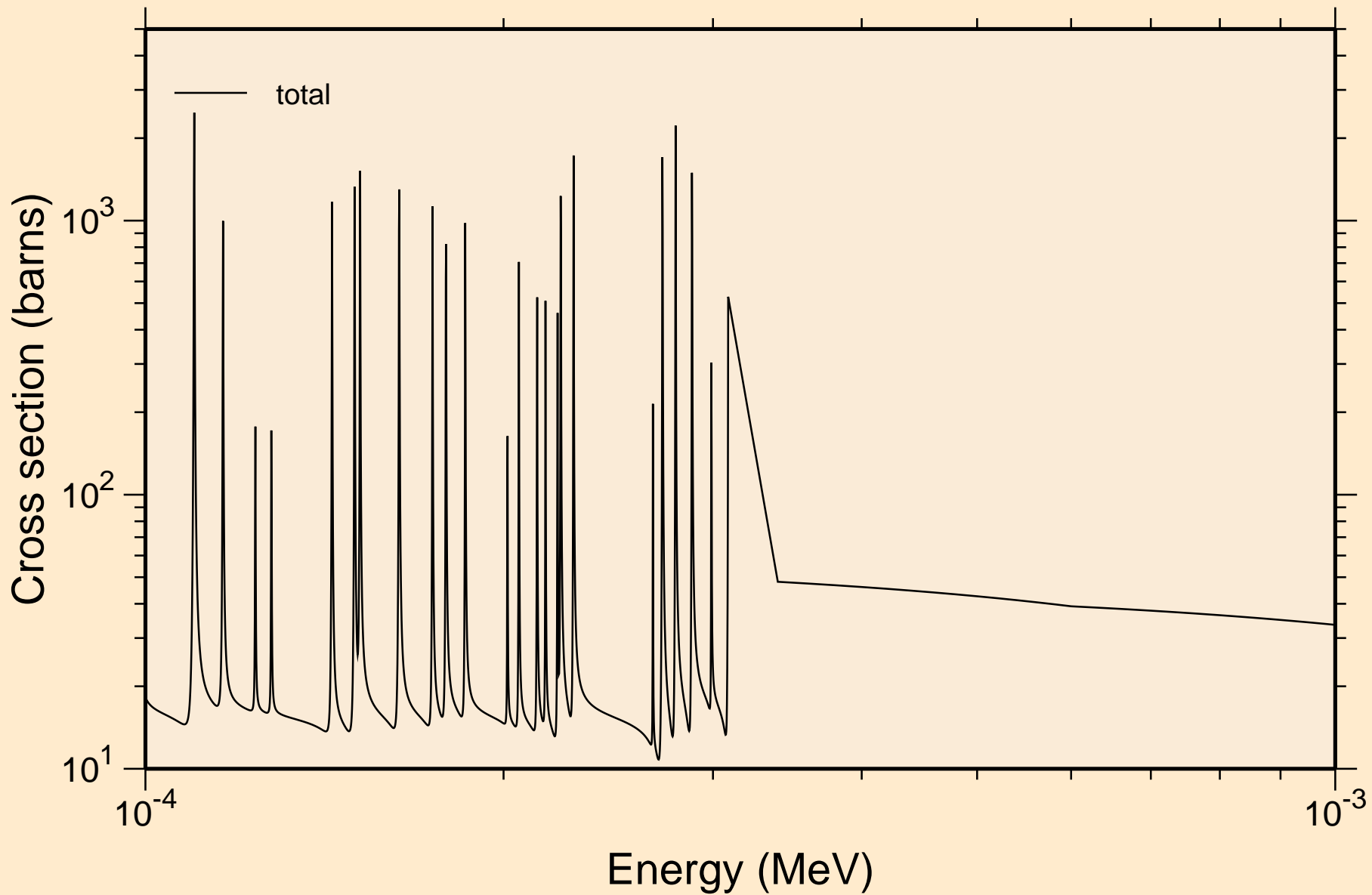
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



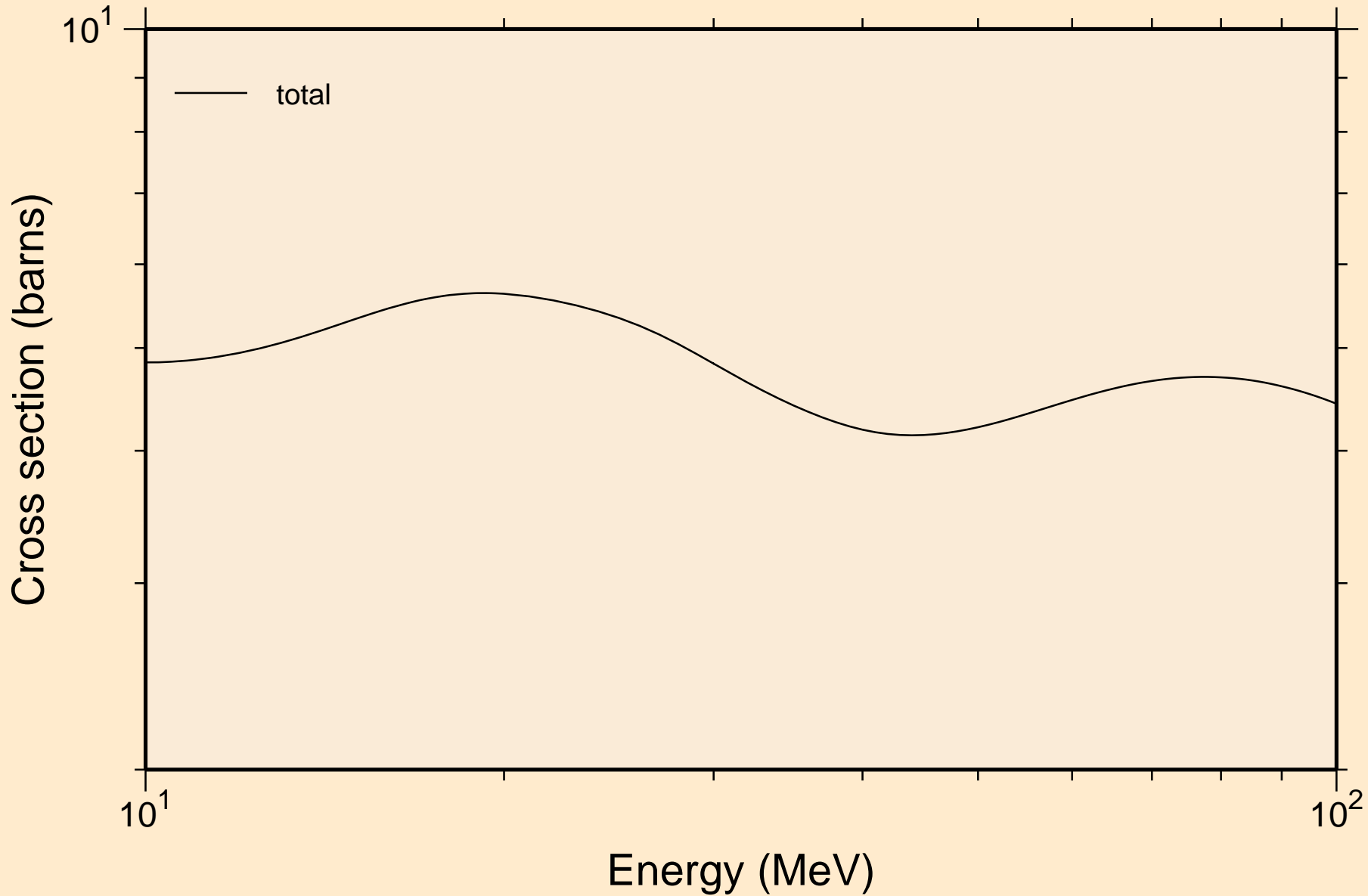
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



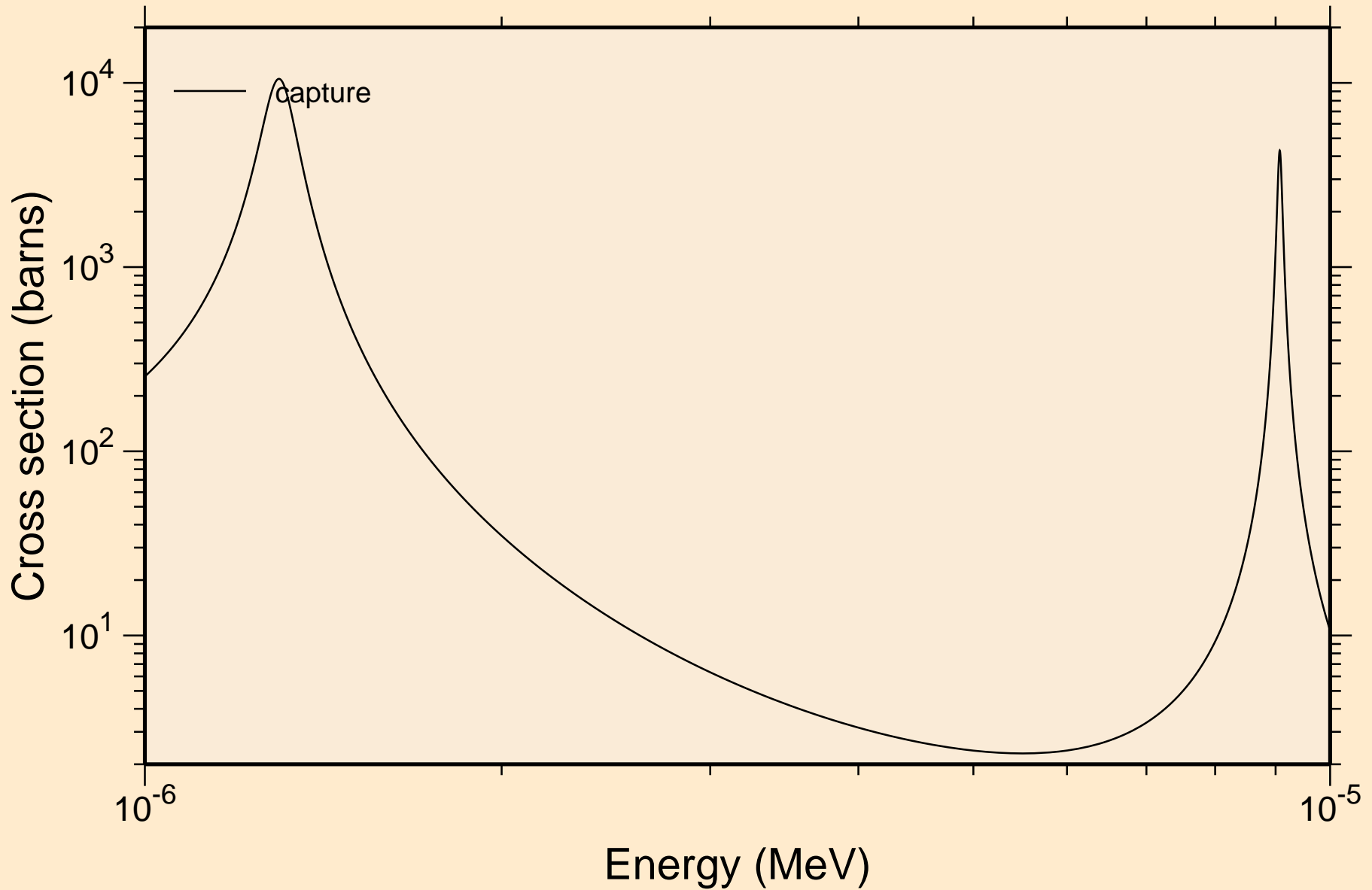
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



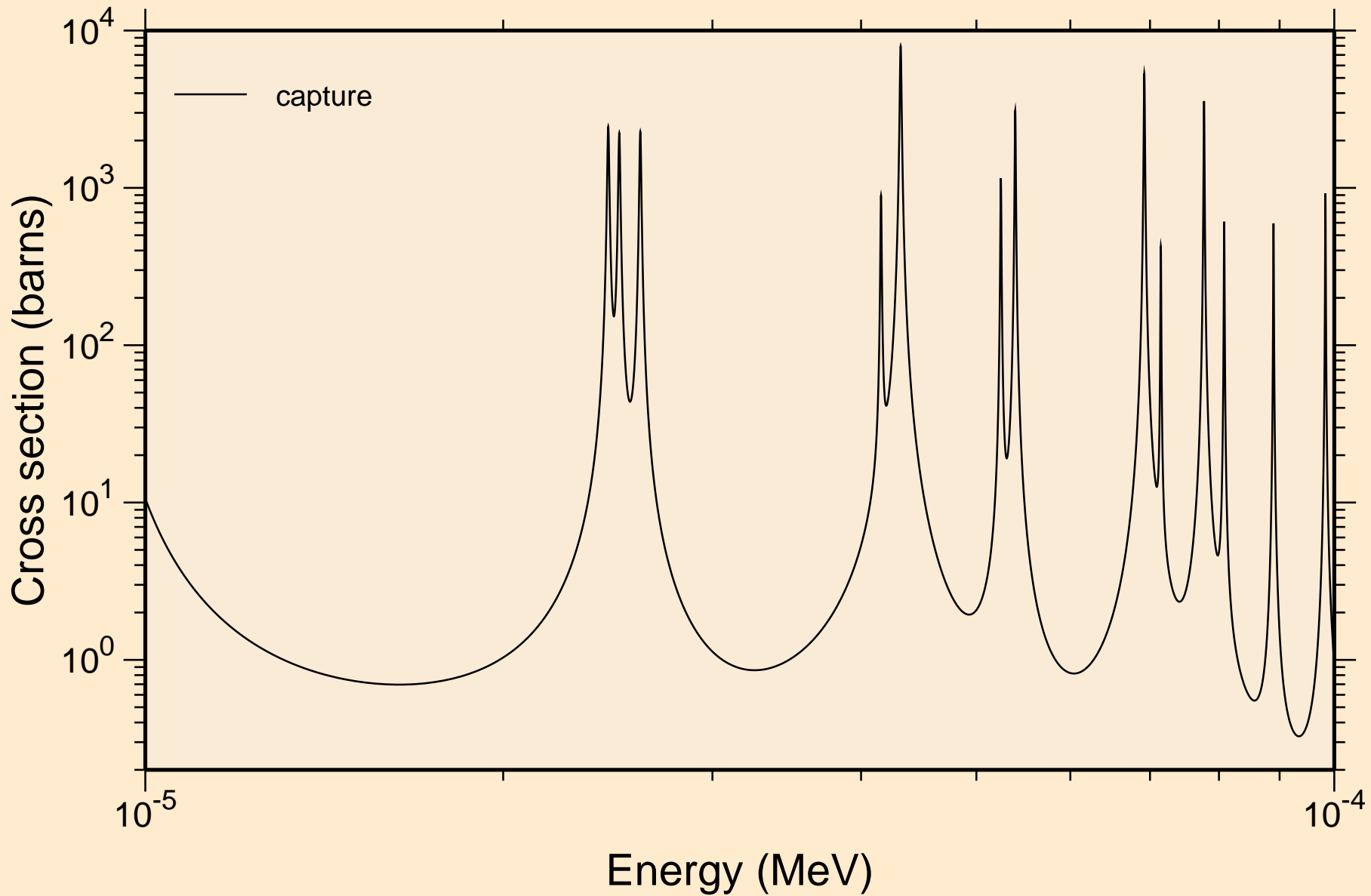
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



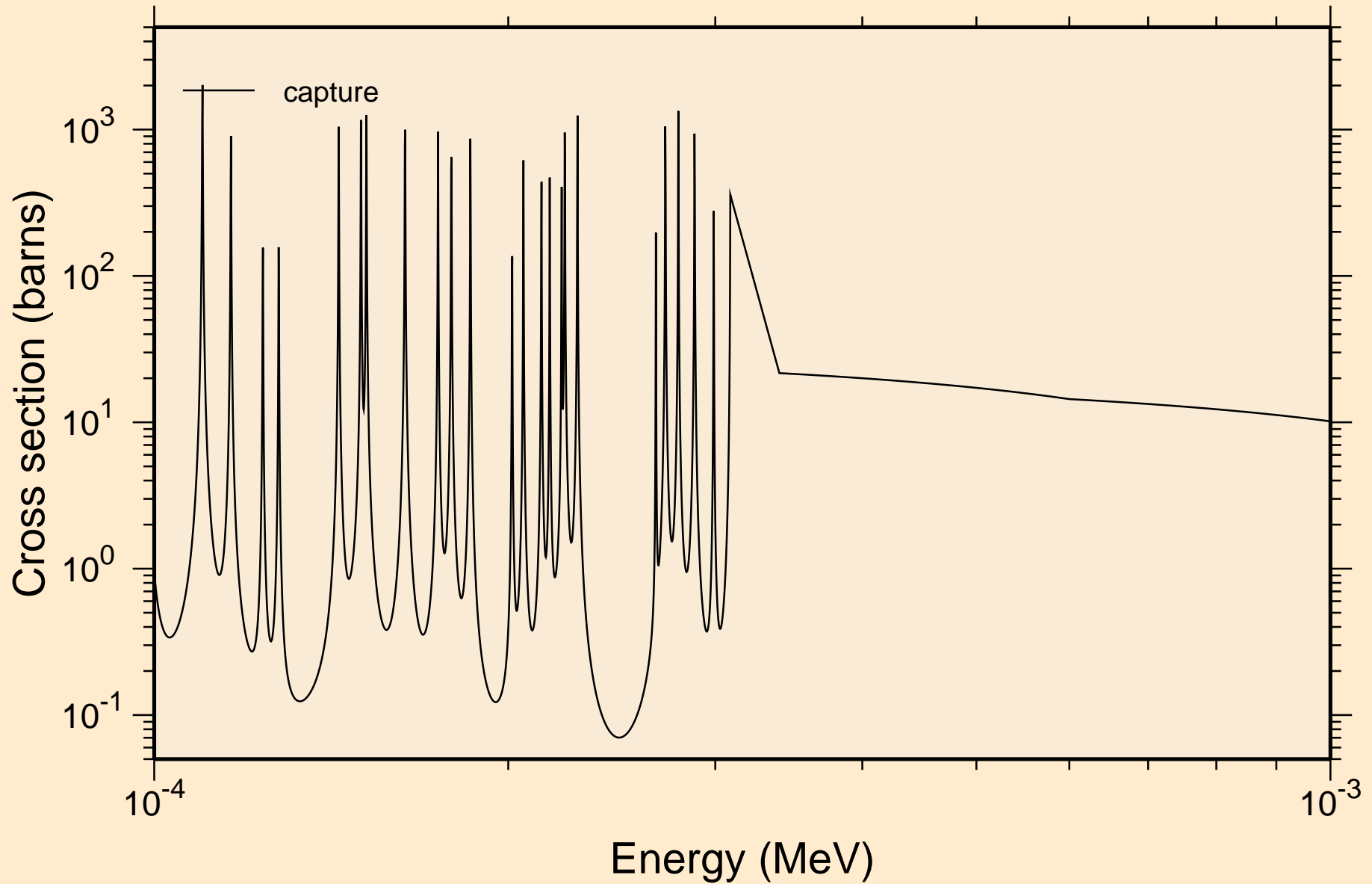
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



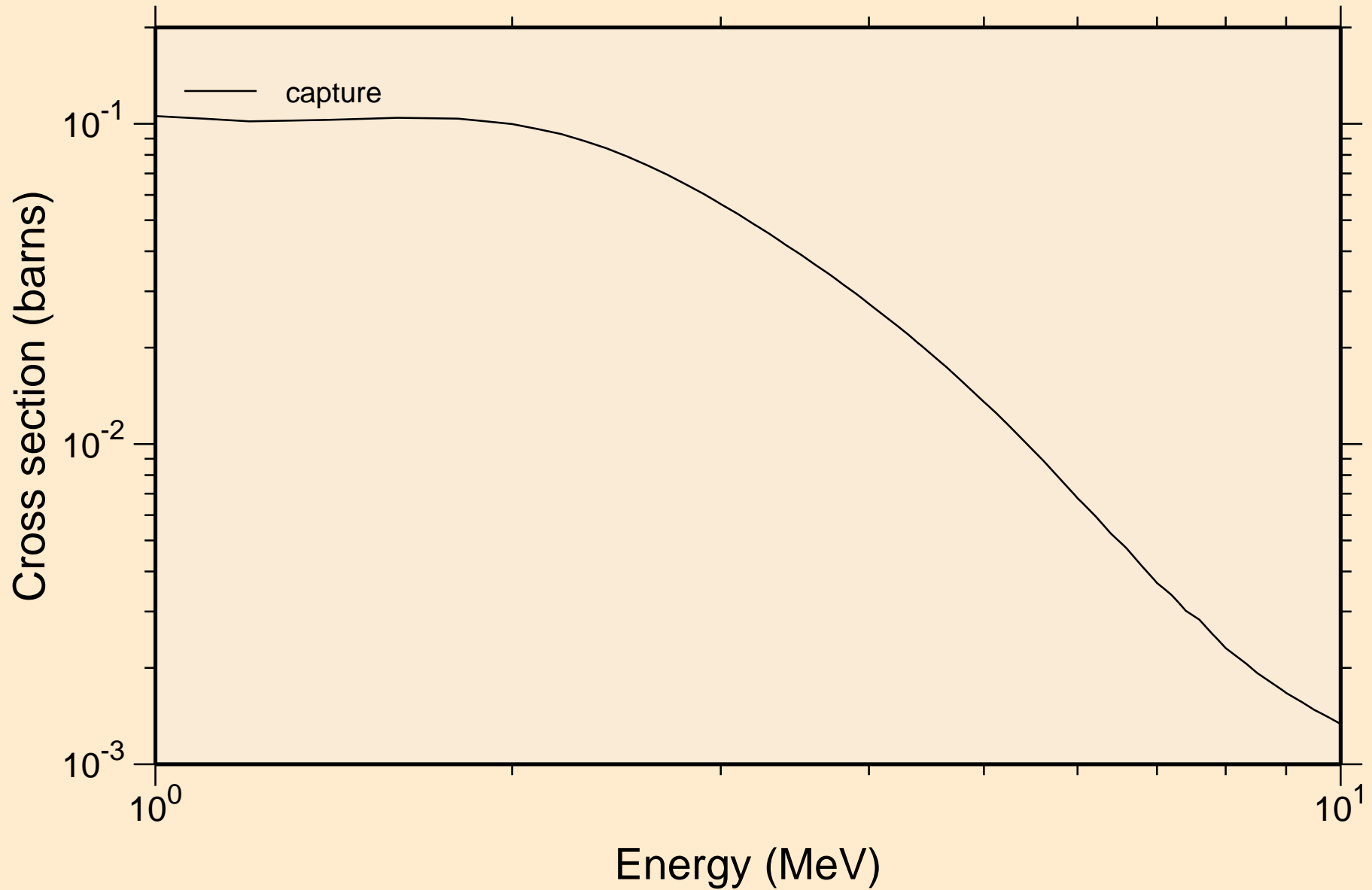
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

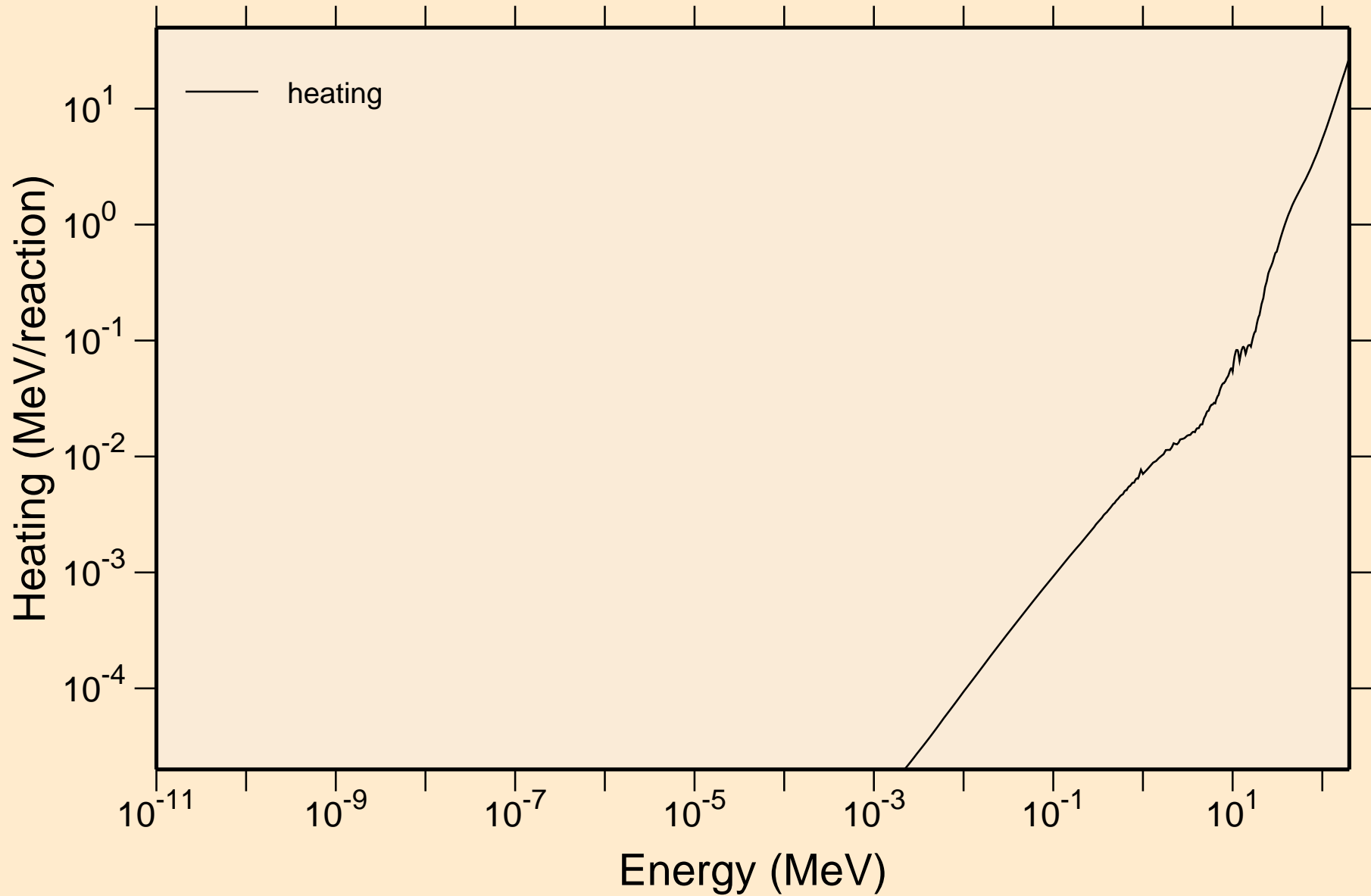


IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



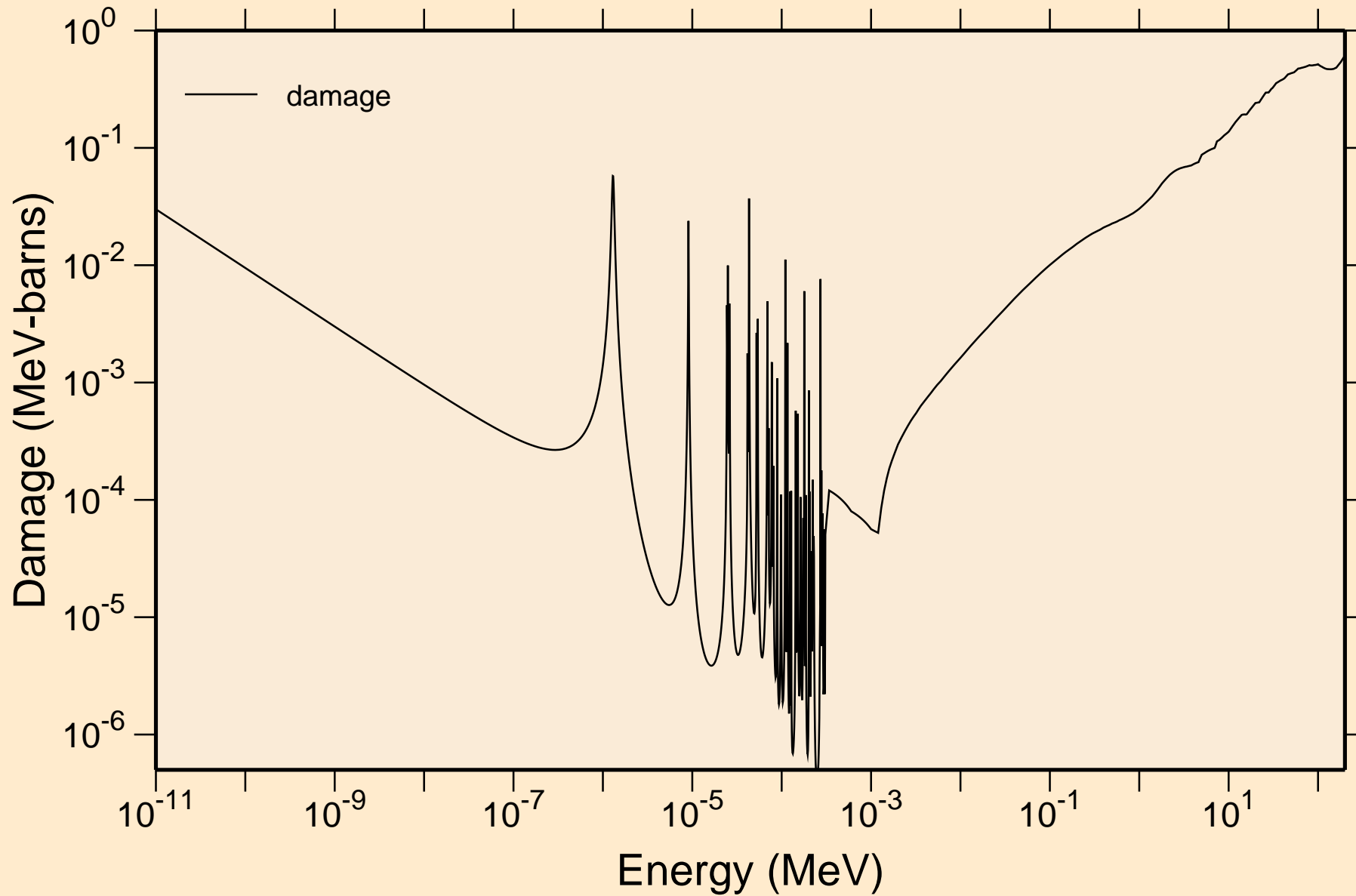
# IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

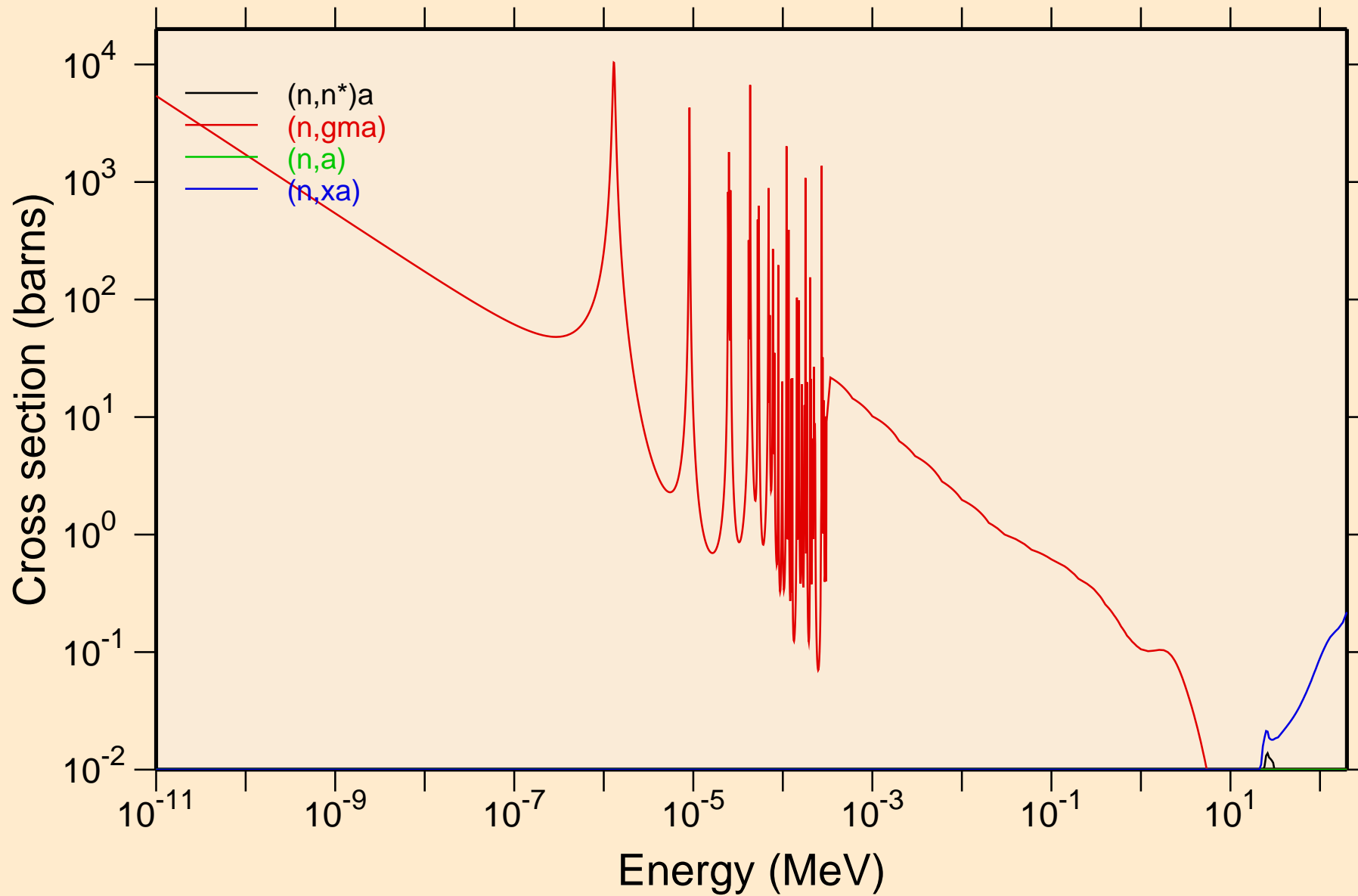


# IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Damage

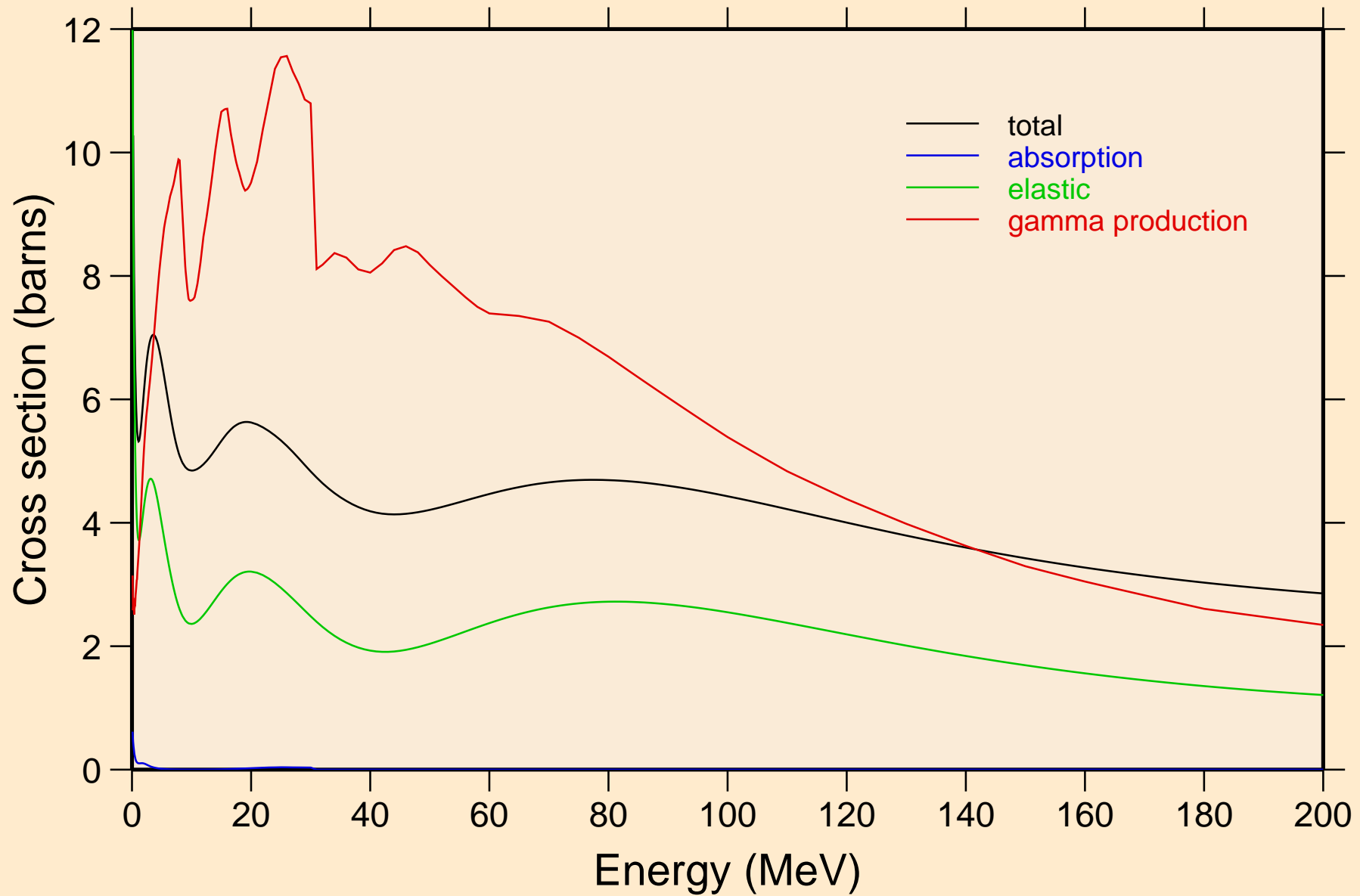


IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



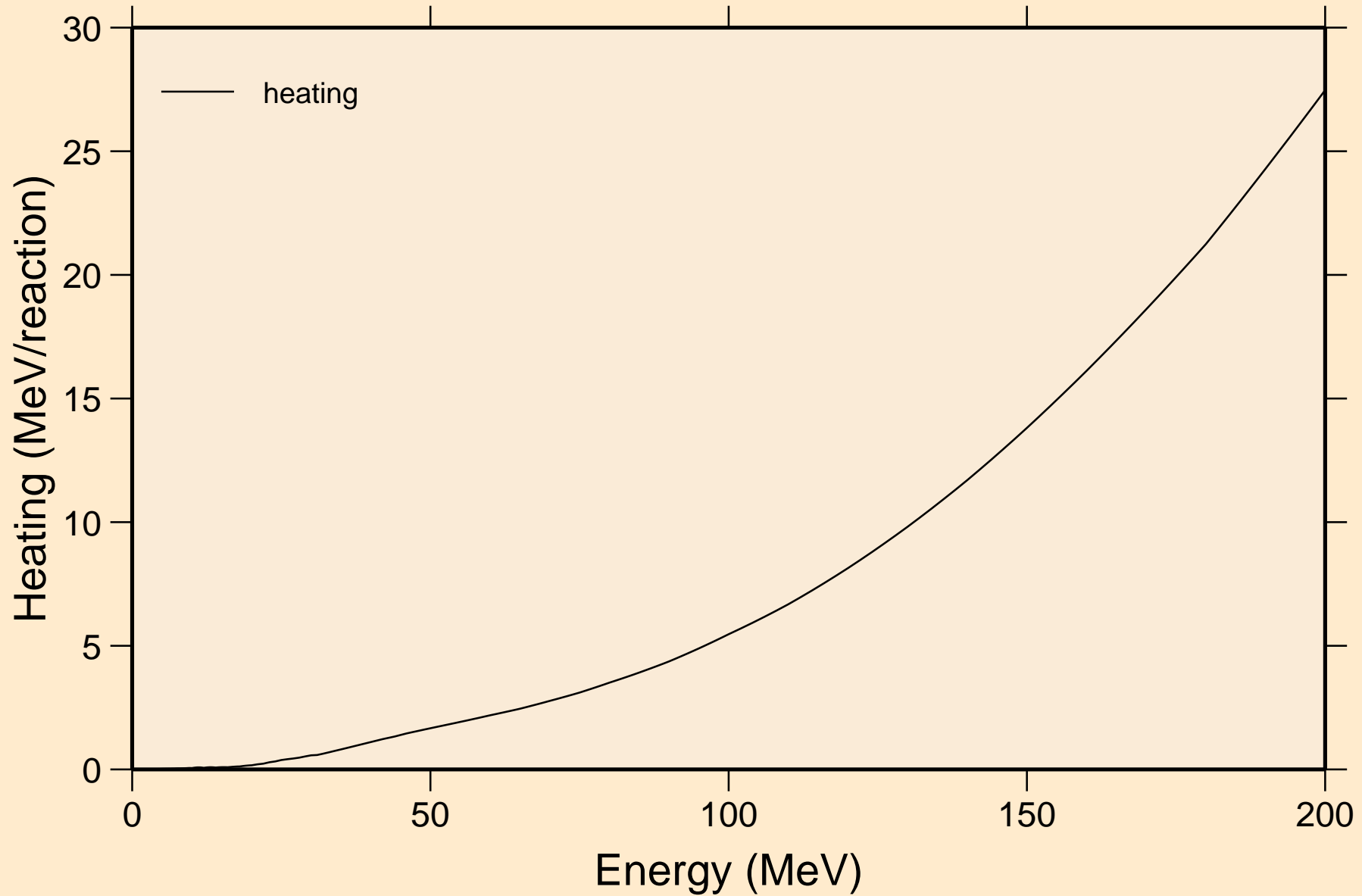
# IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



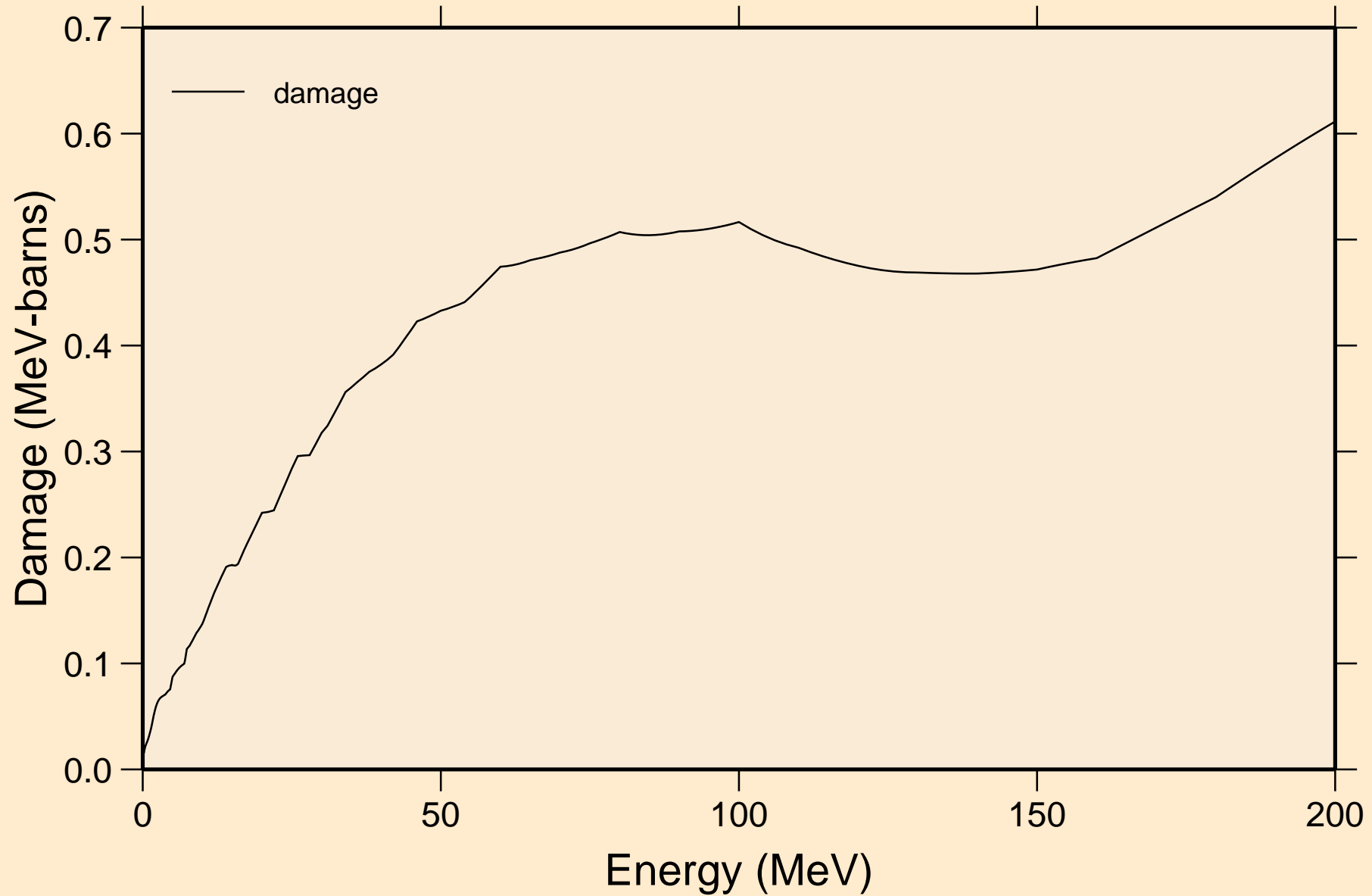
# IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

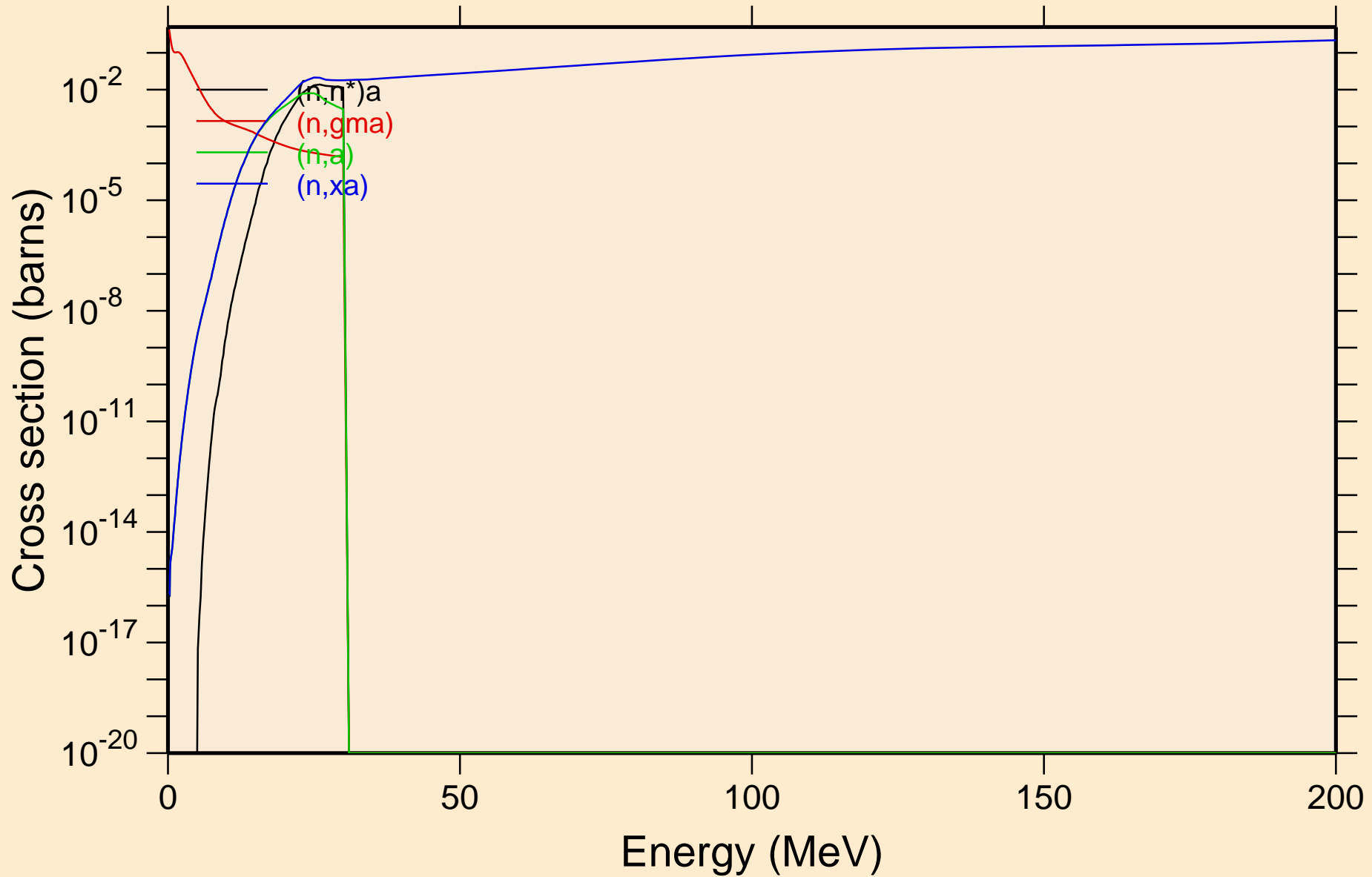


# IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

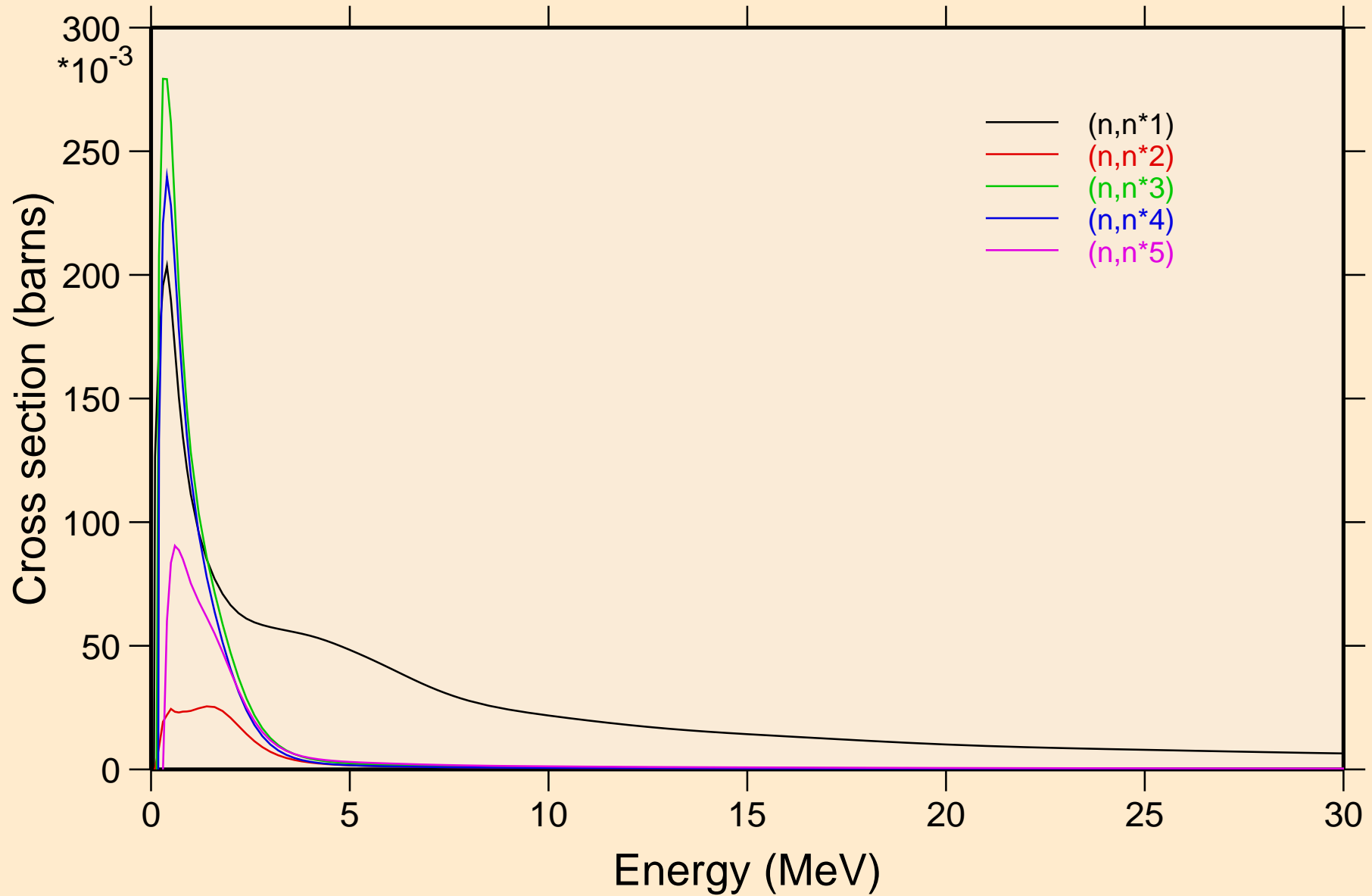
## Damage



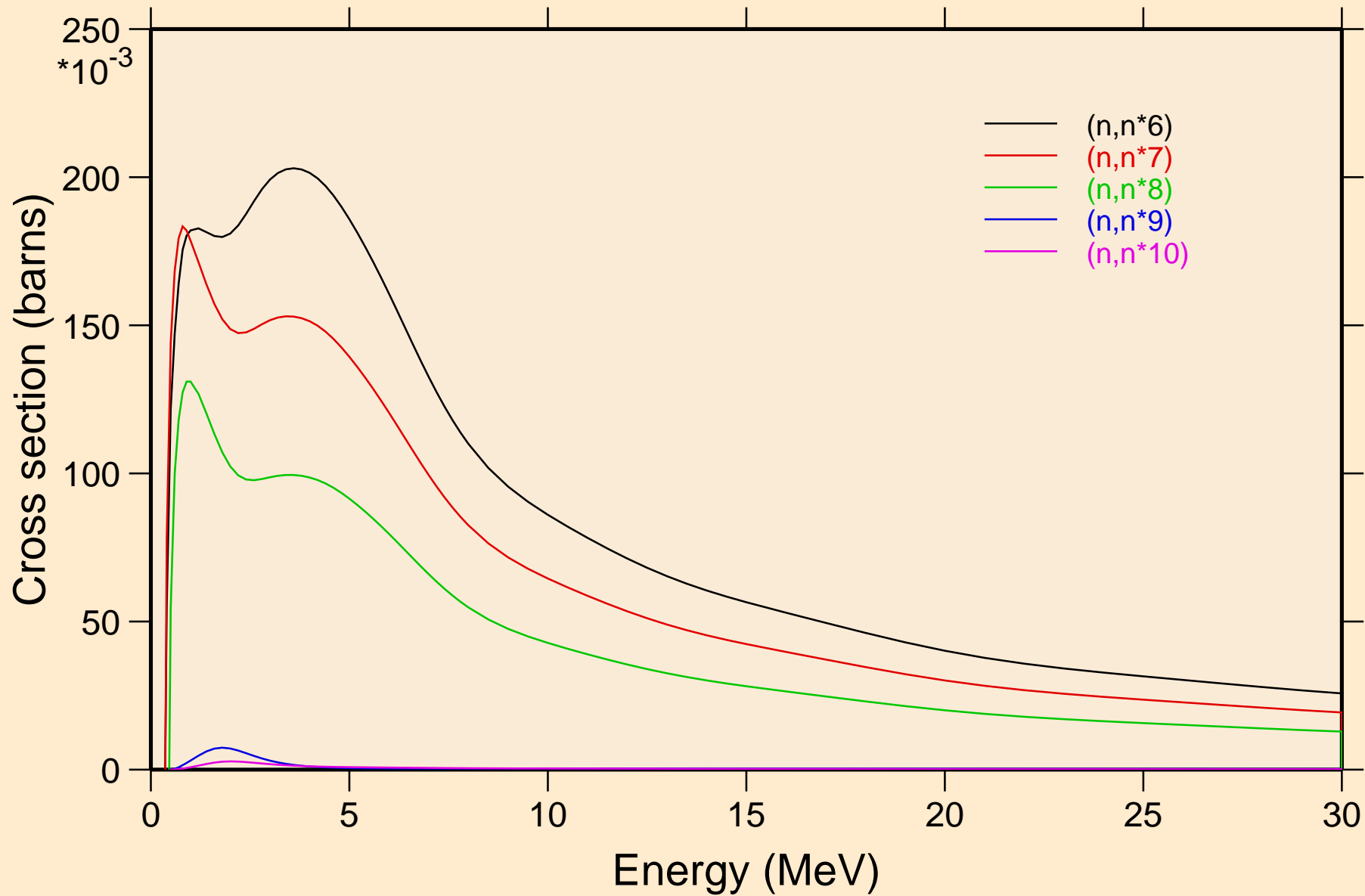
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



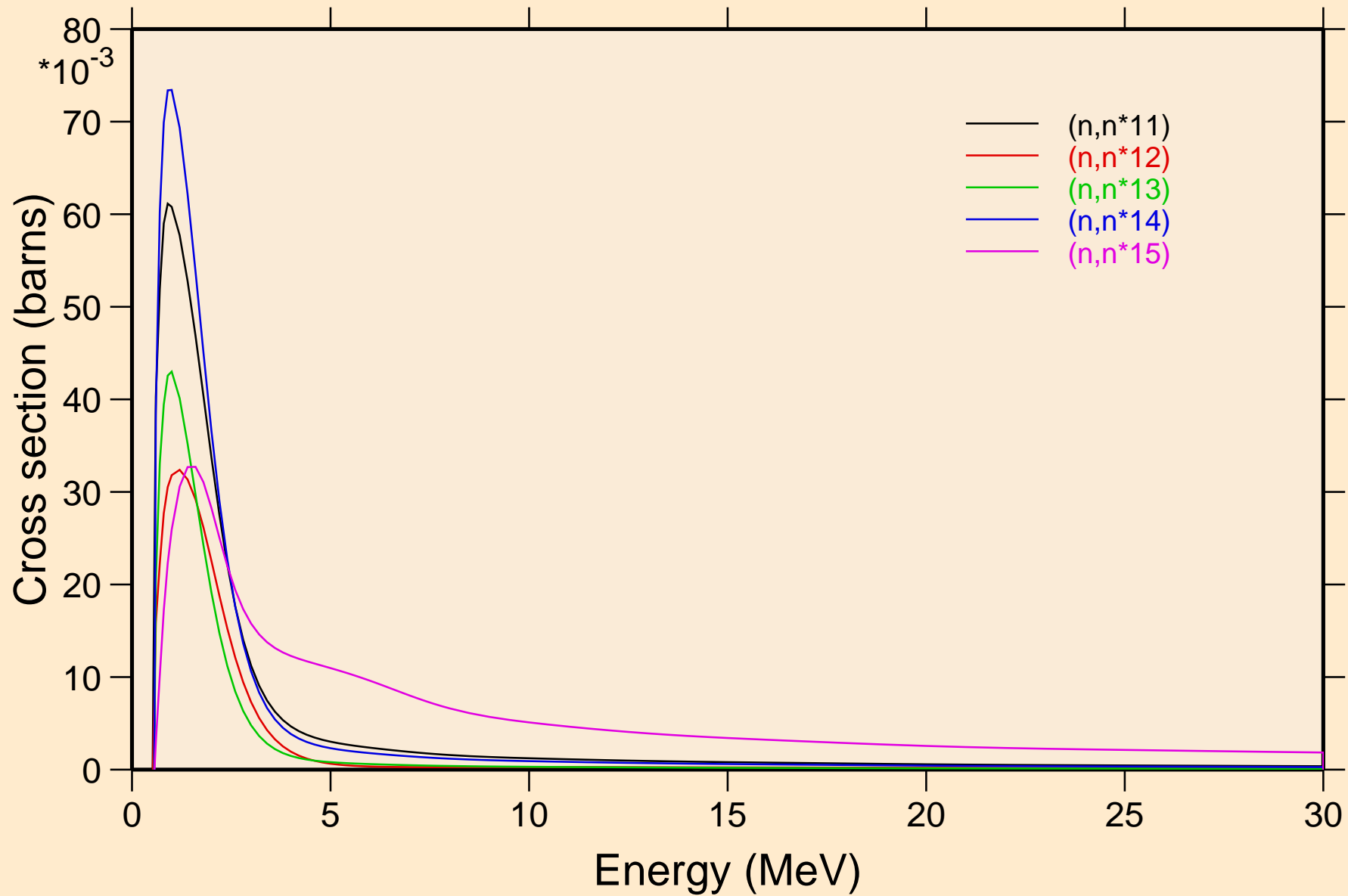
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



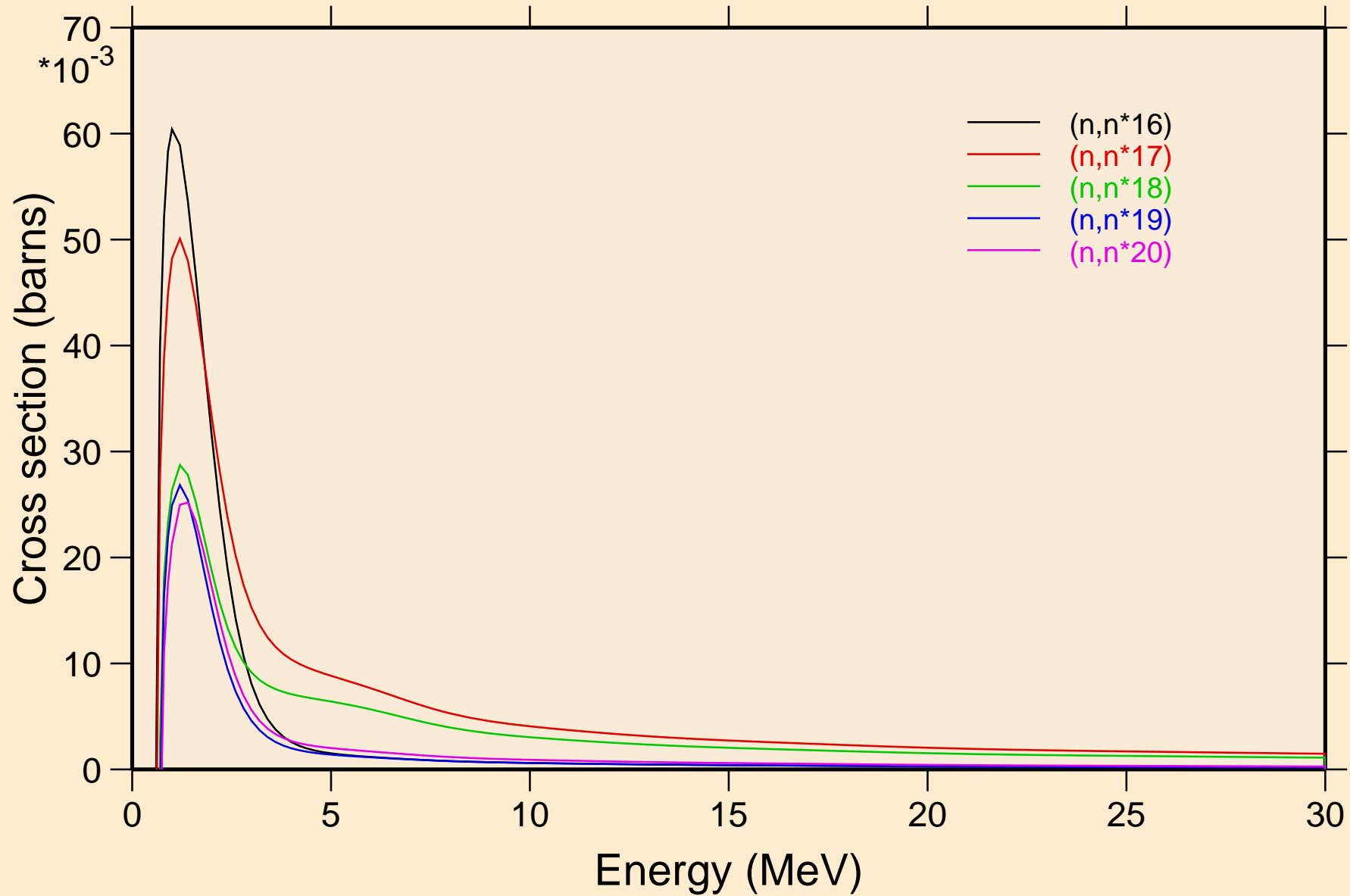
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



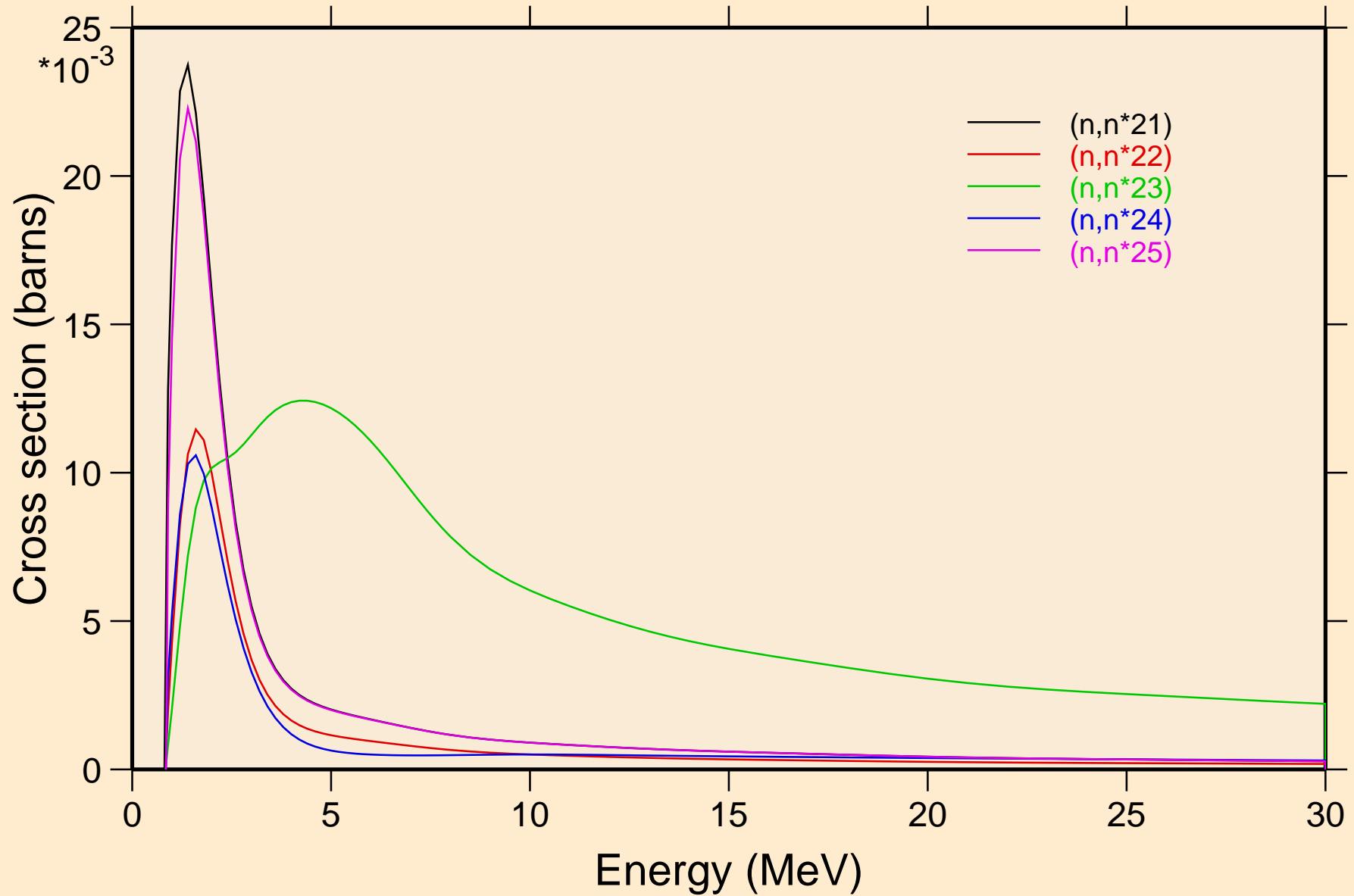
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



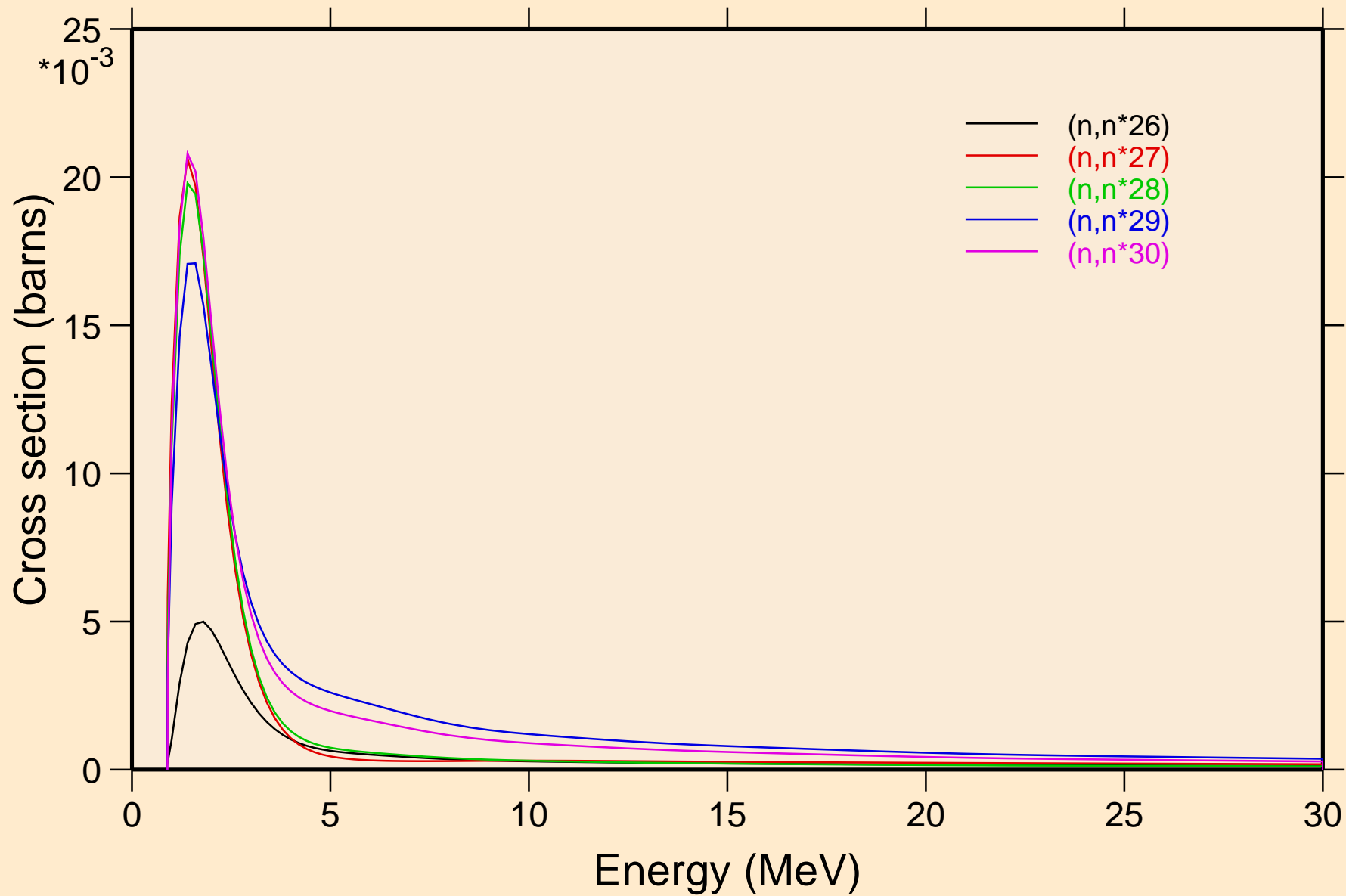
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



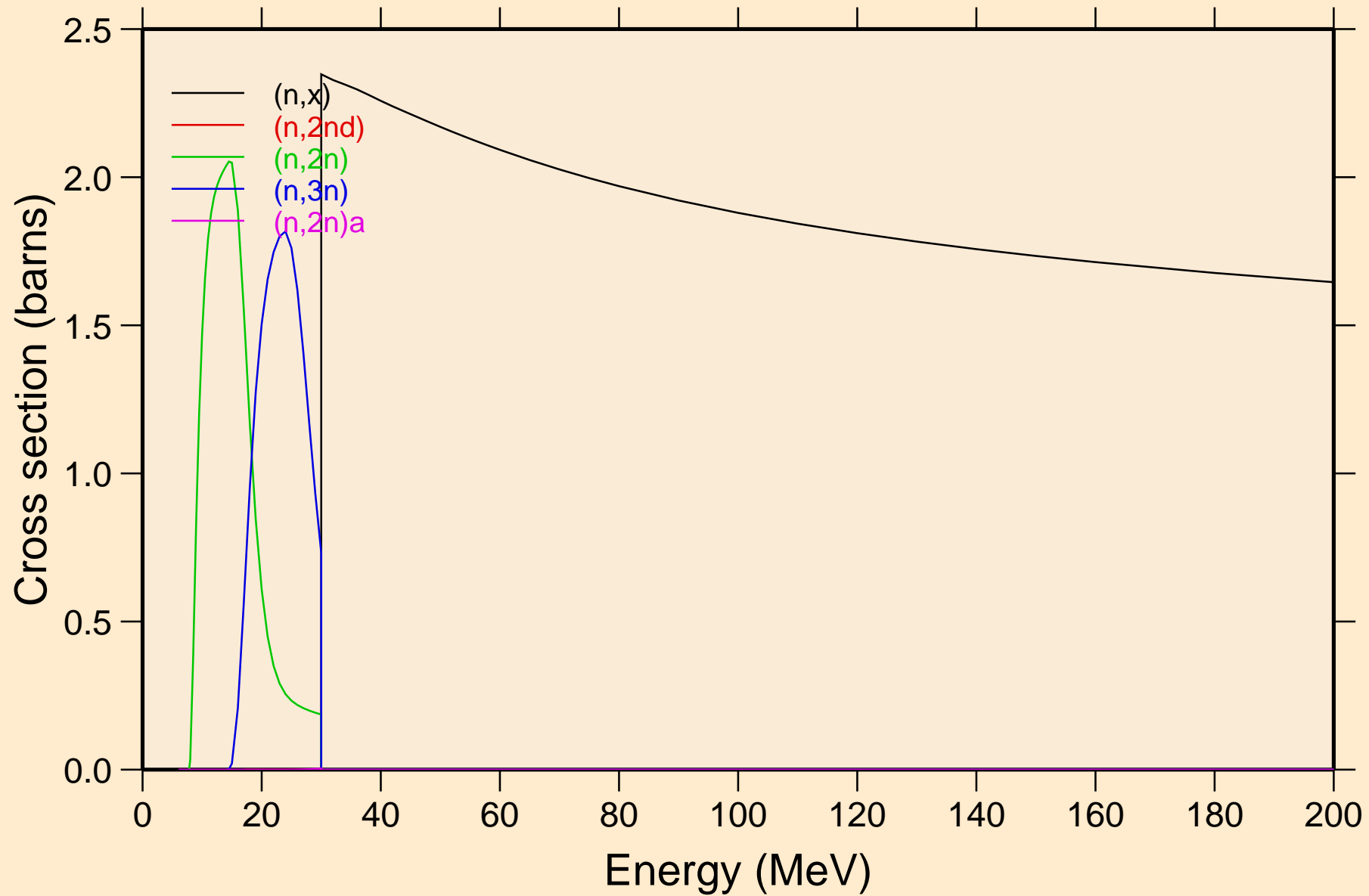
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

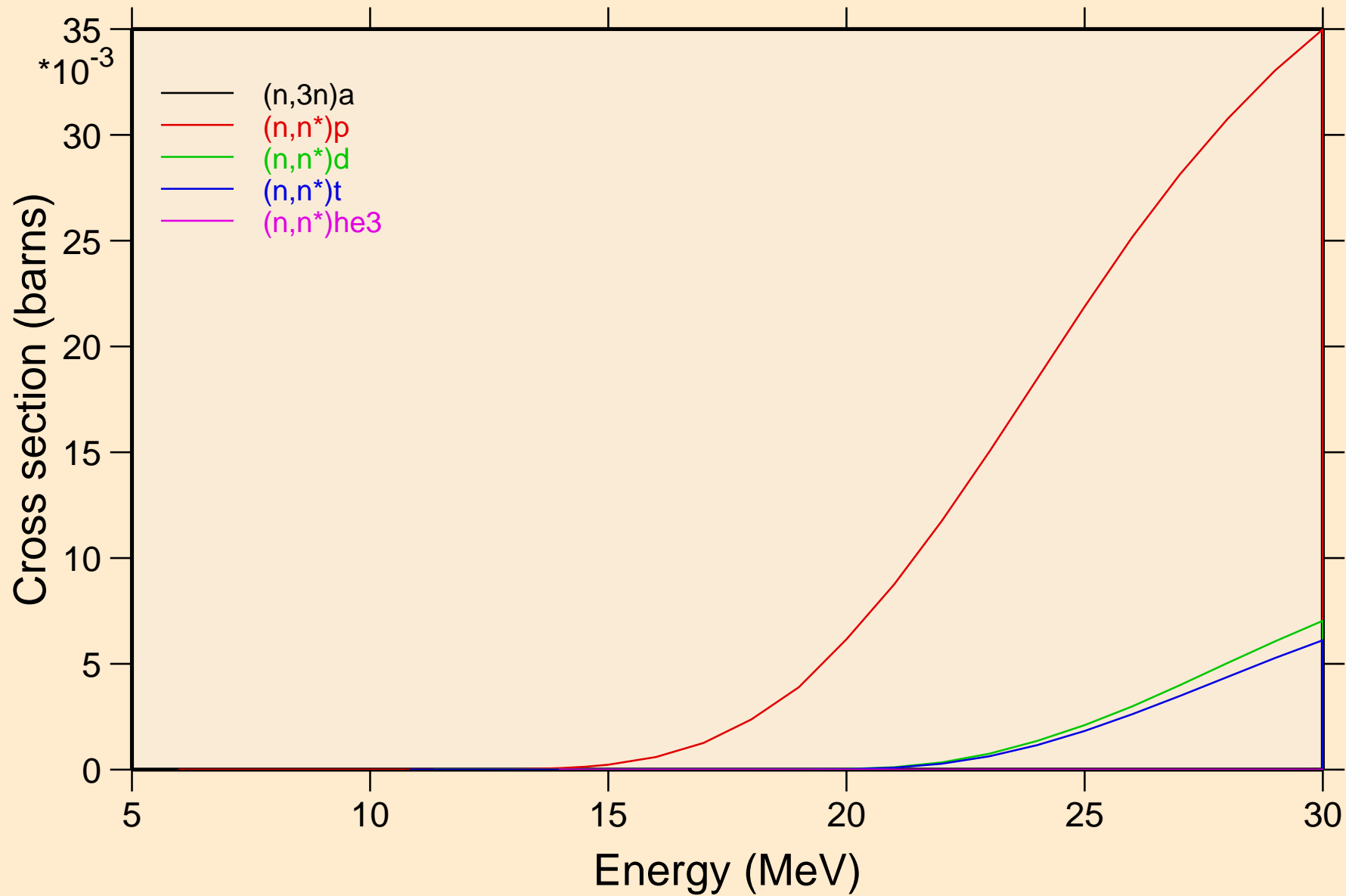


IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

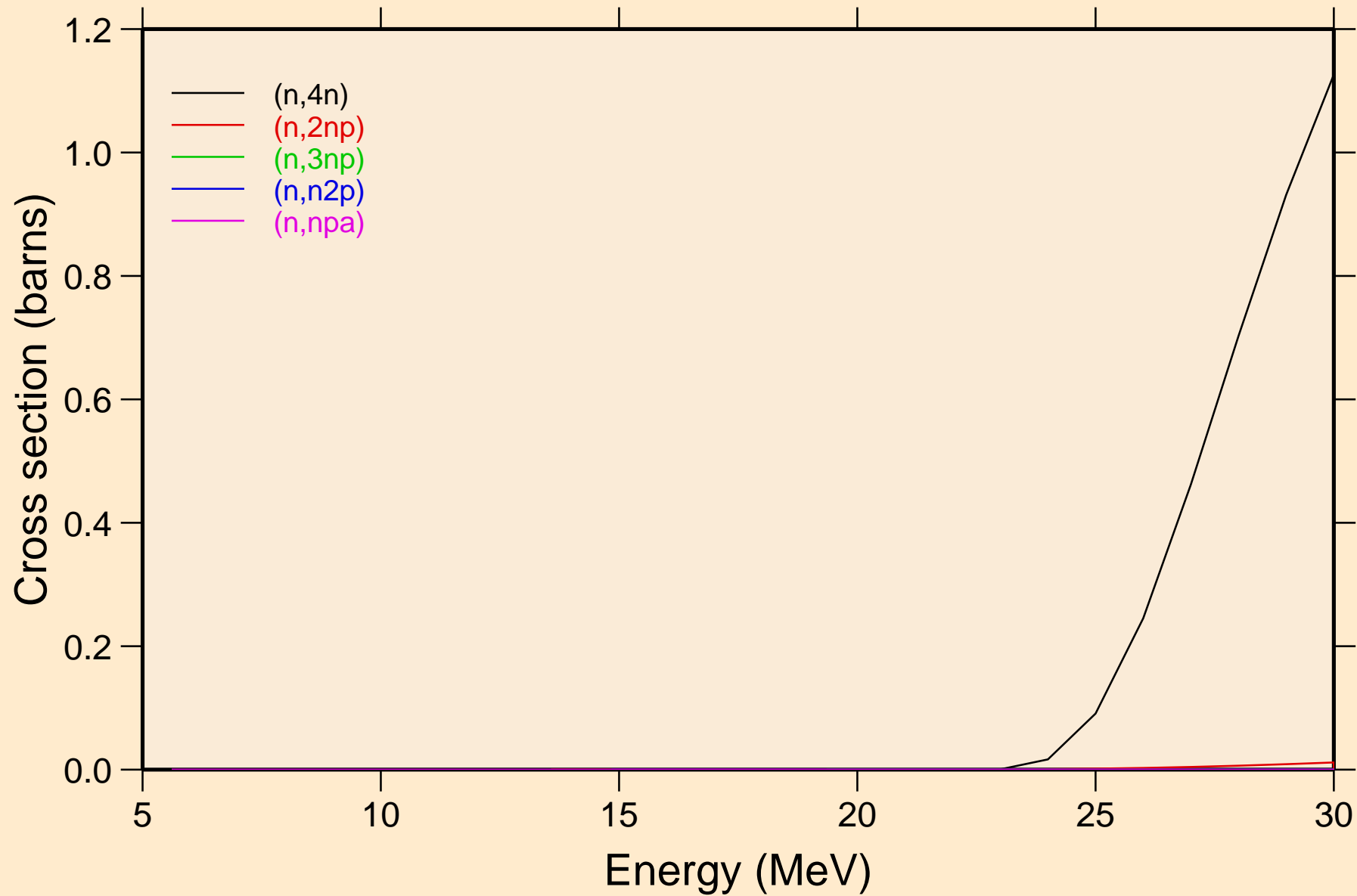


# IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

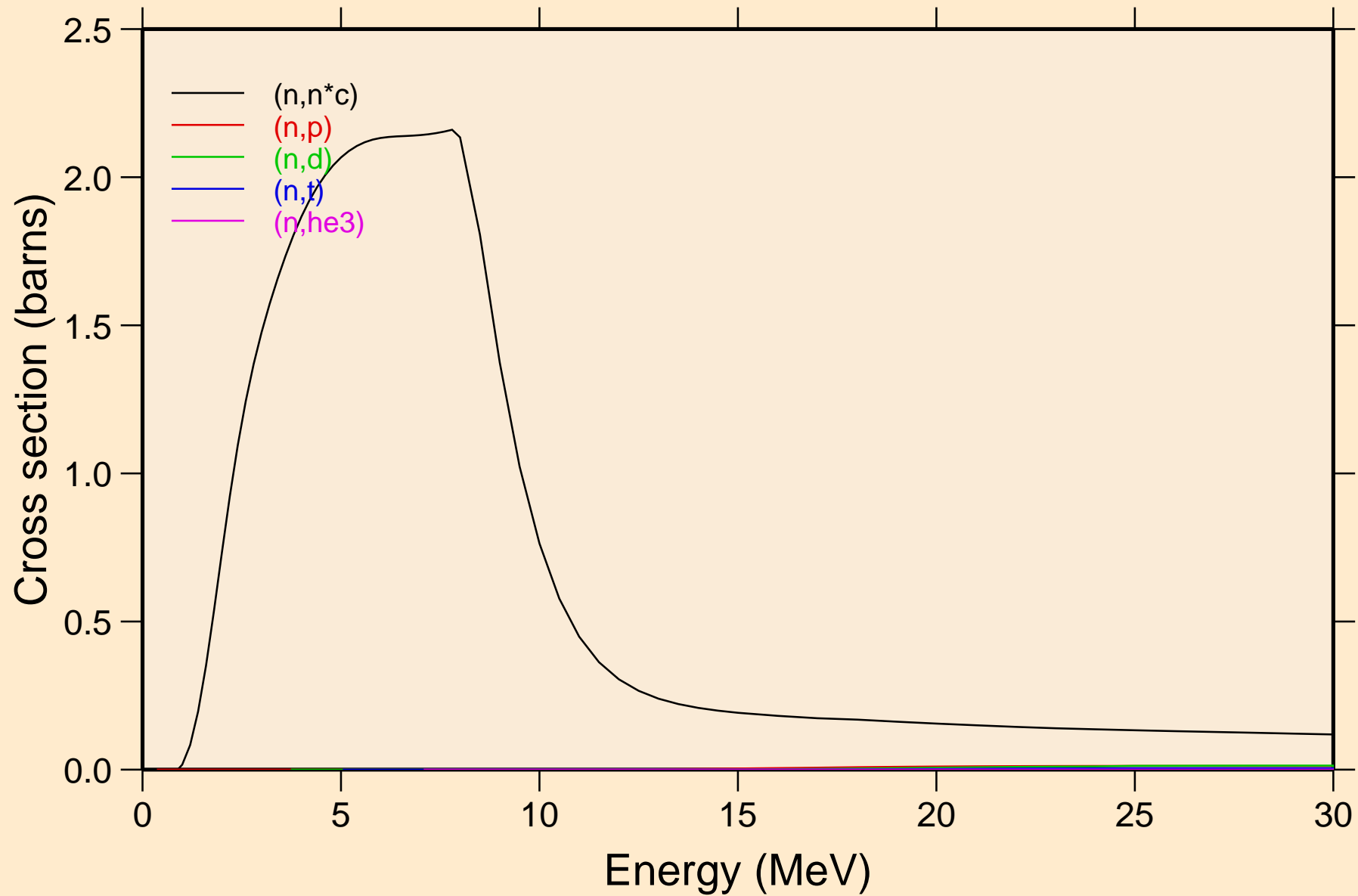
## Threshold reactions



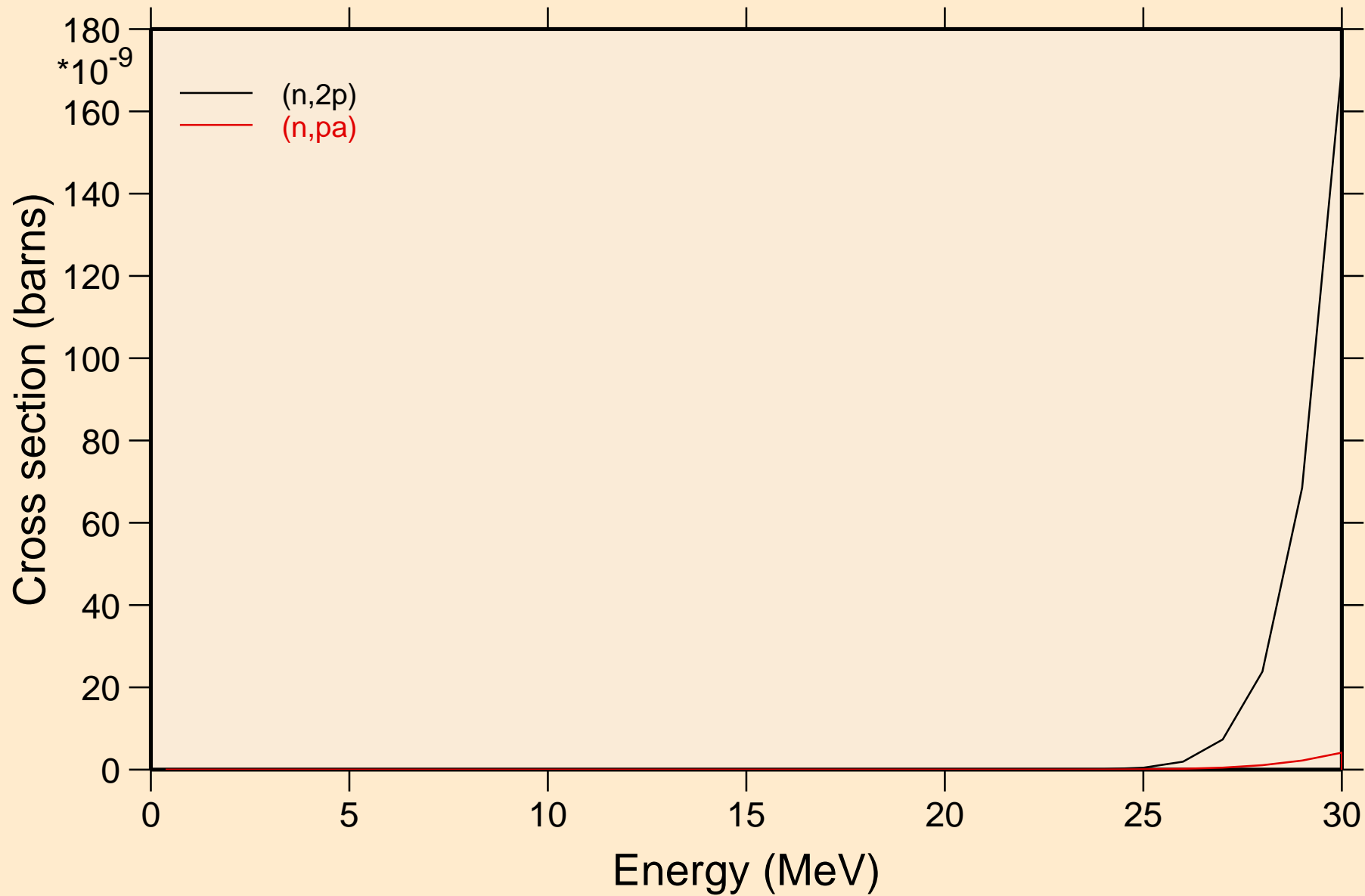
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

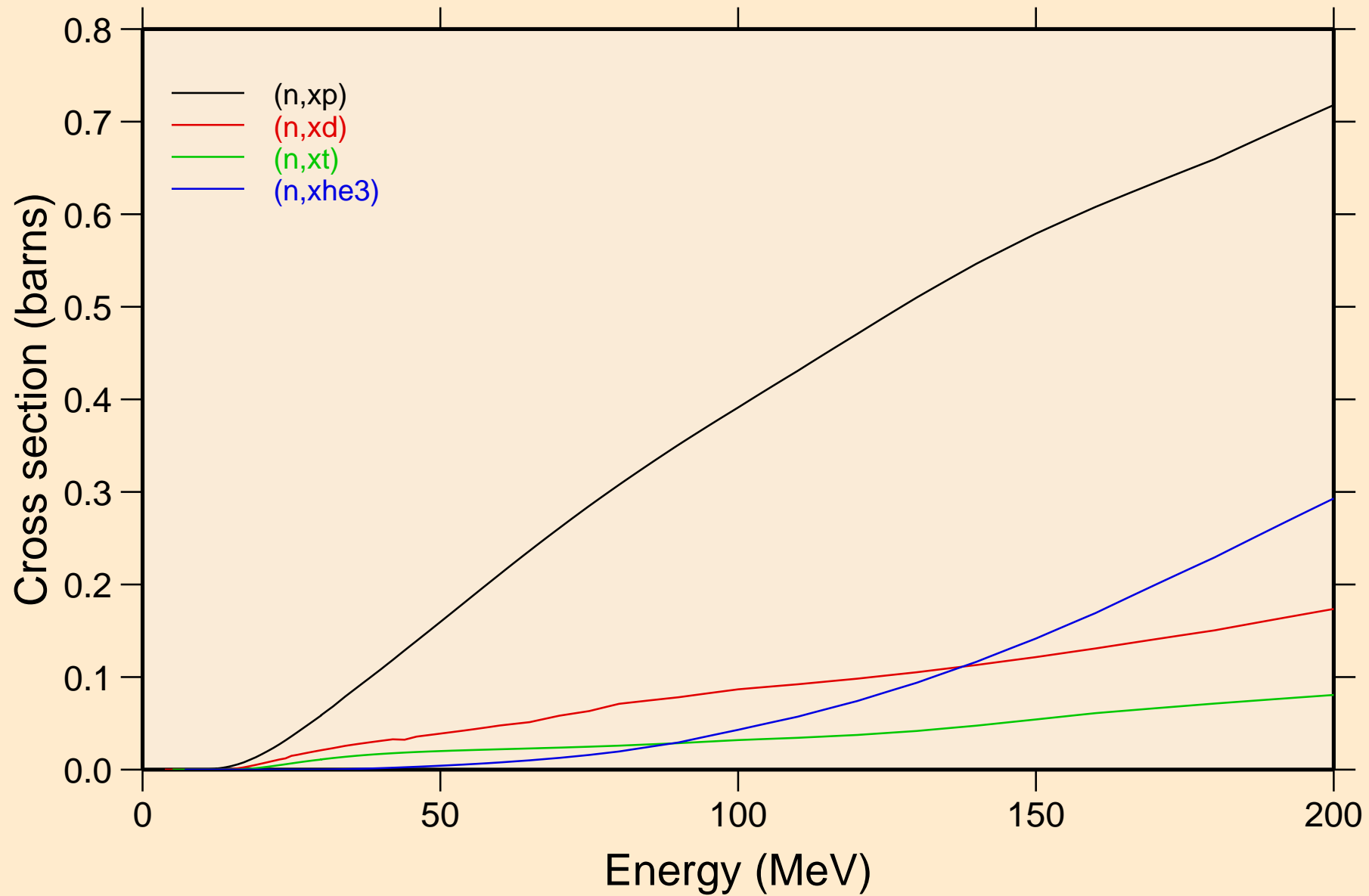


IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

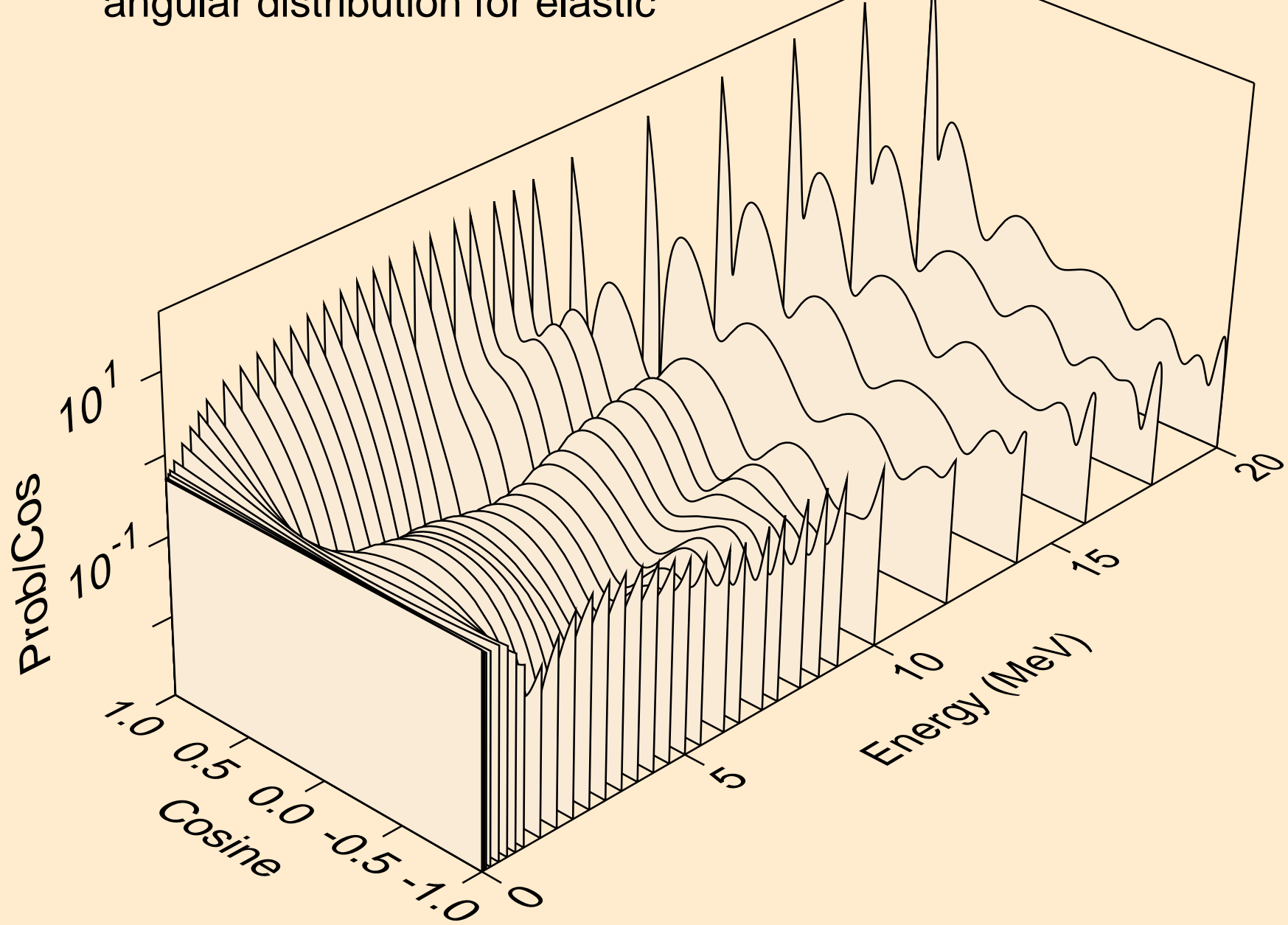


# IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

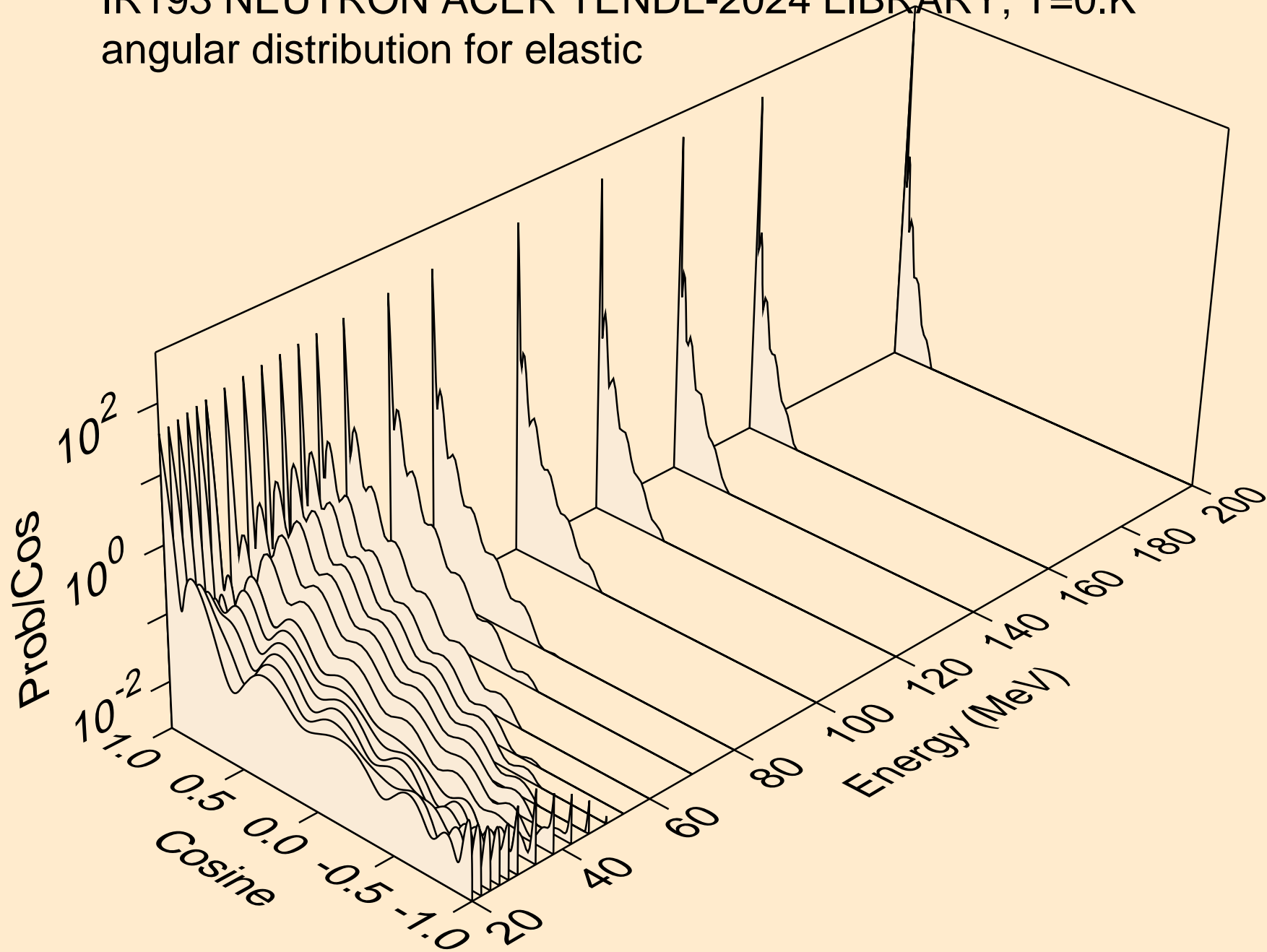
## Threshold reactions



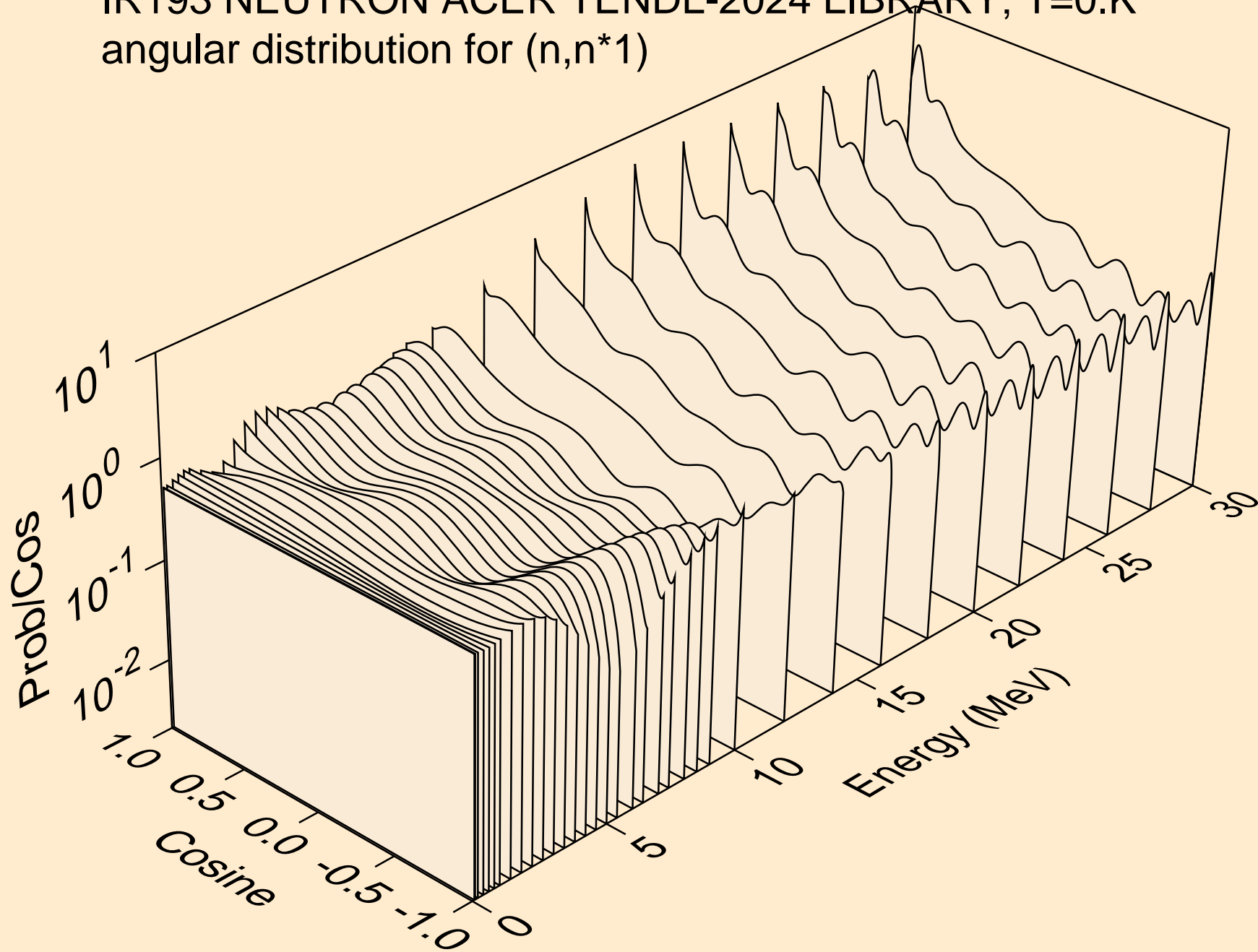
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



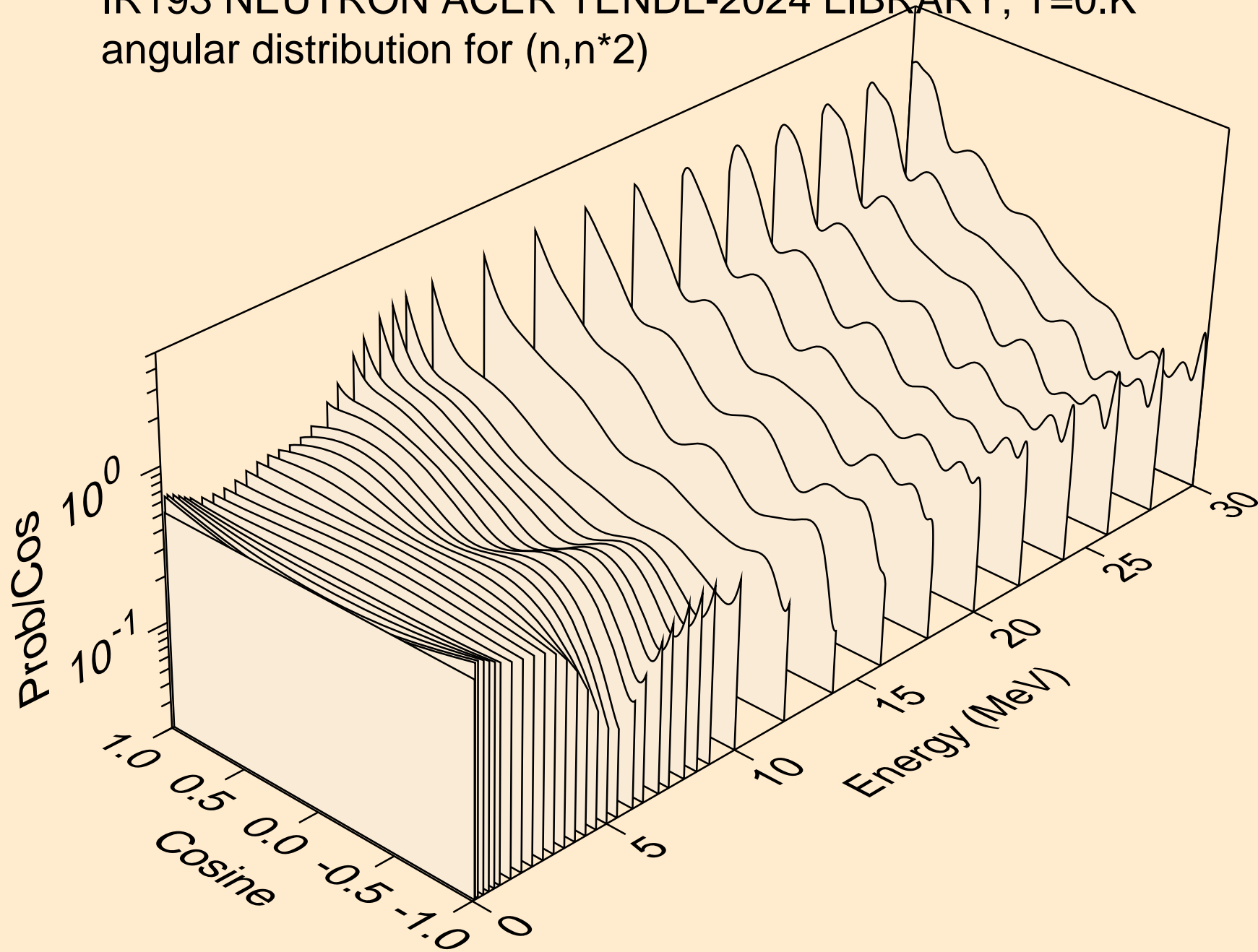
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



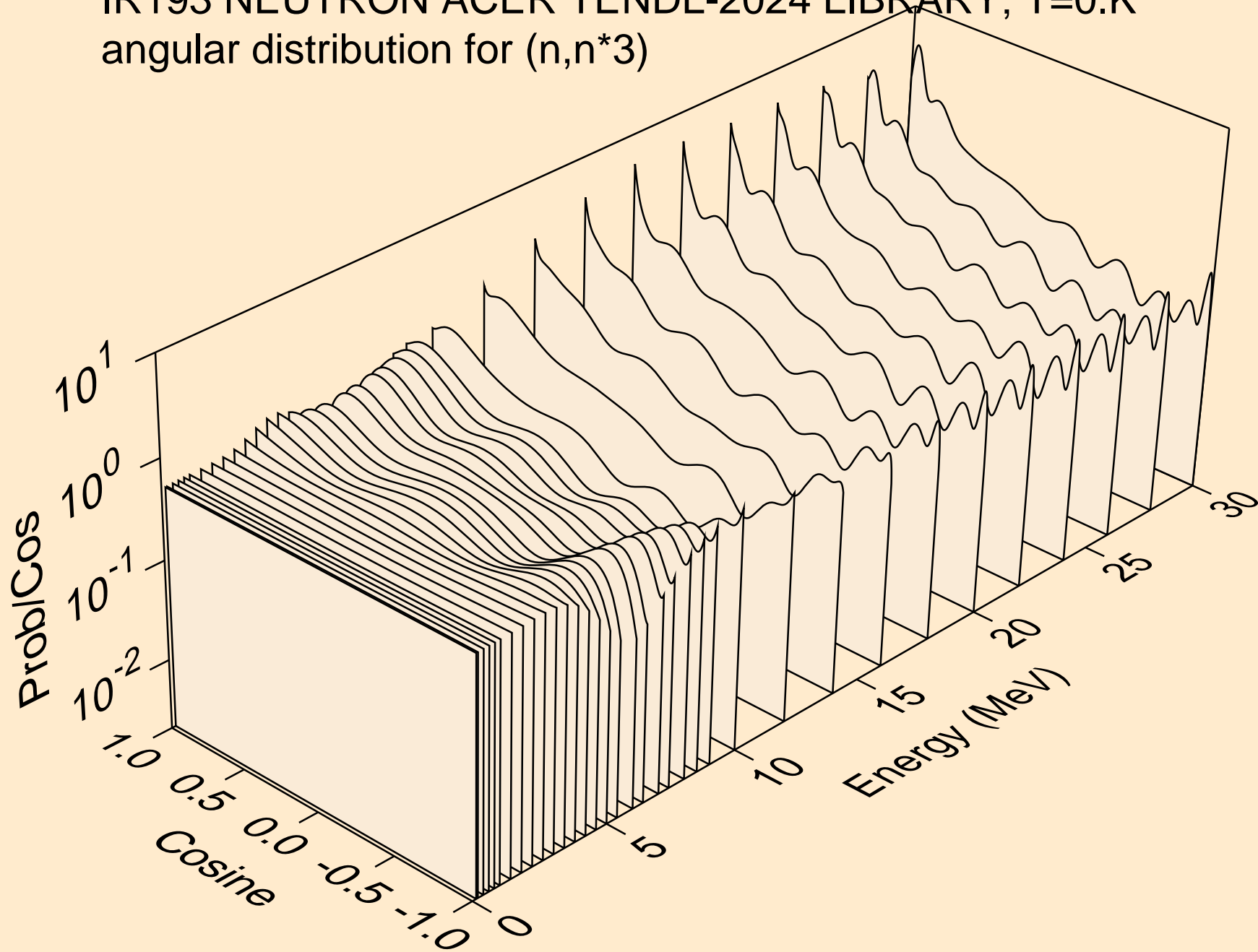
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



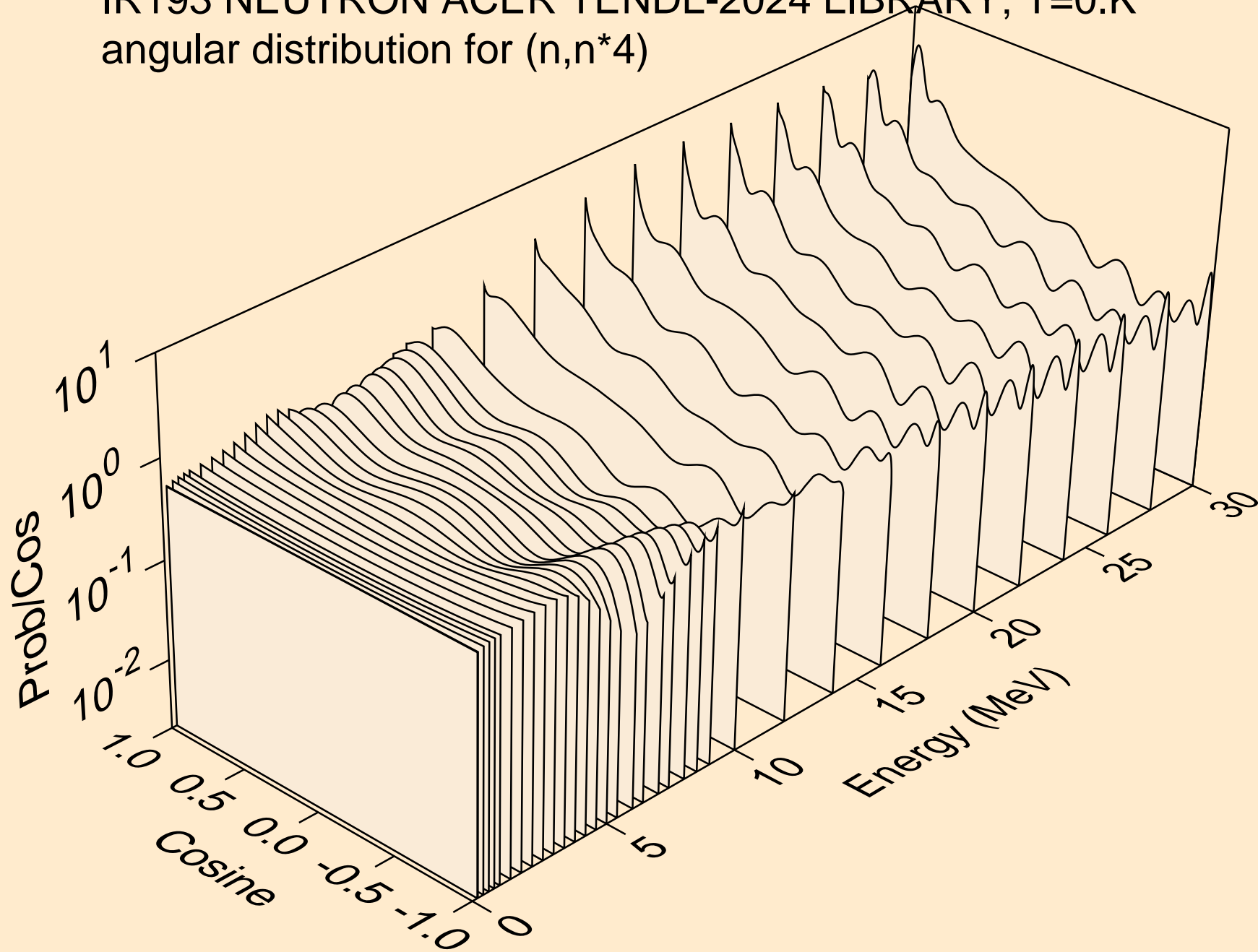
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



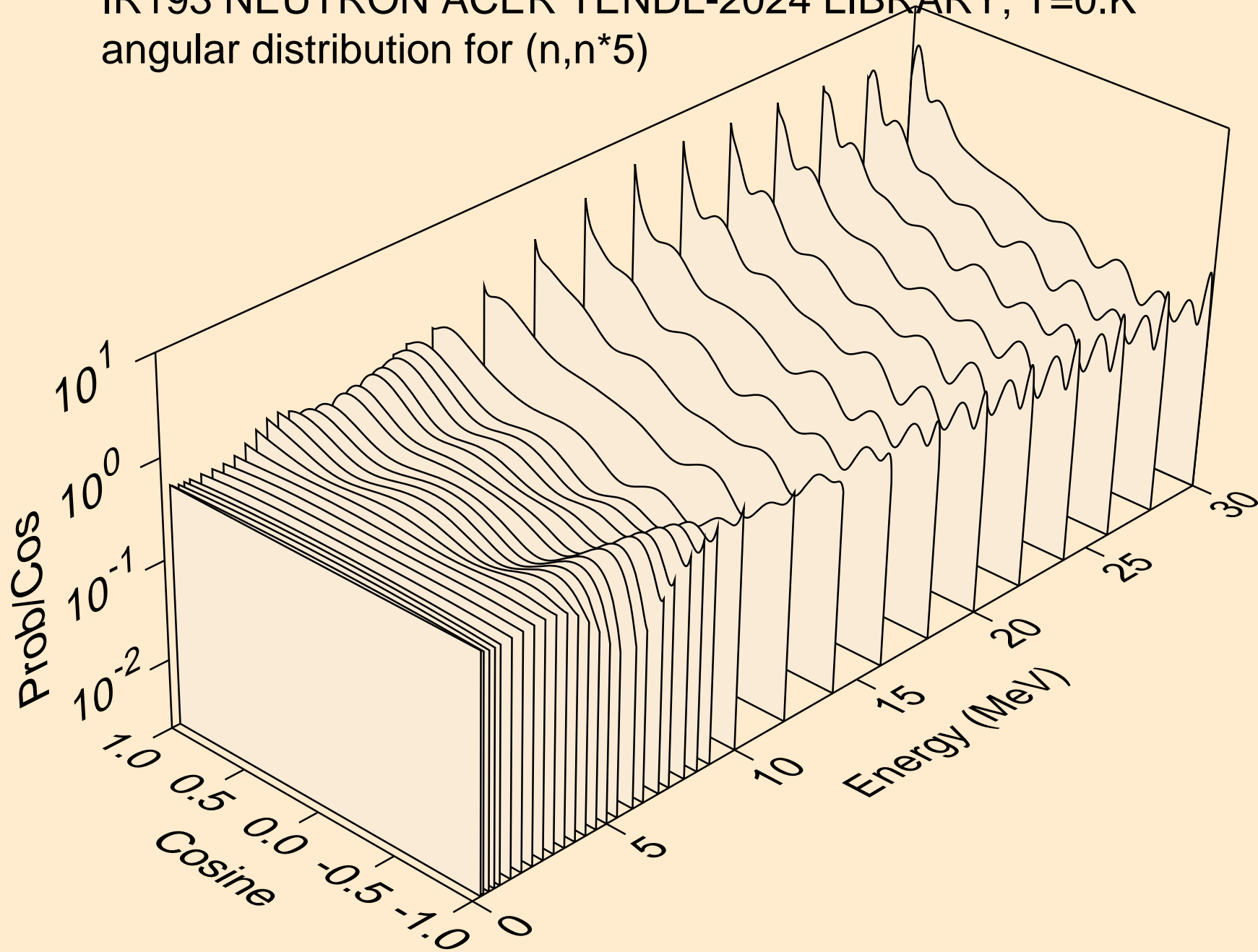
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angular distribution for (n,n\*3)



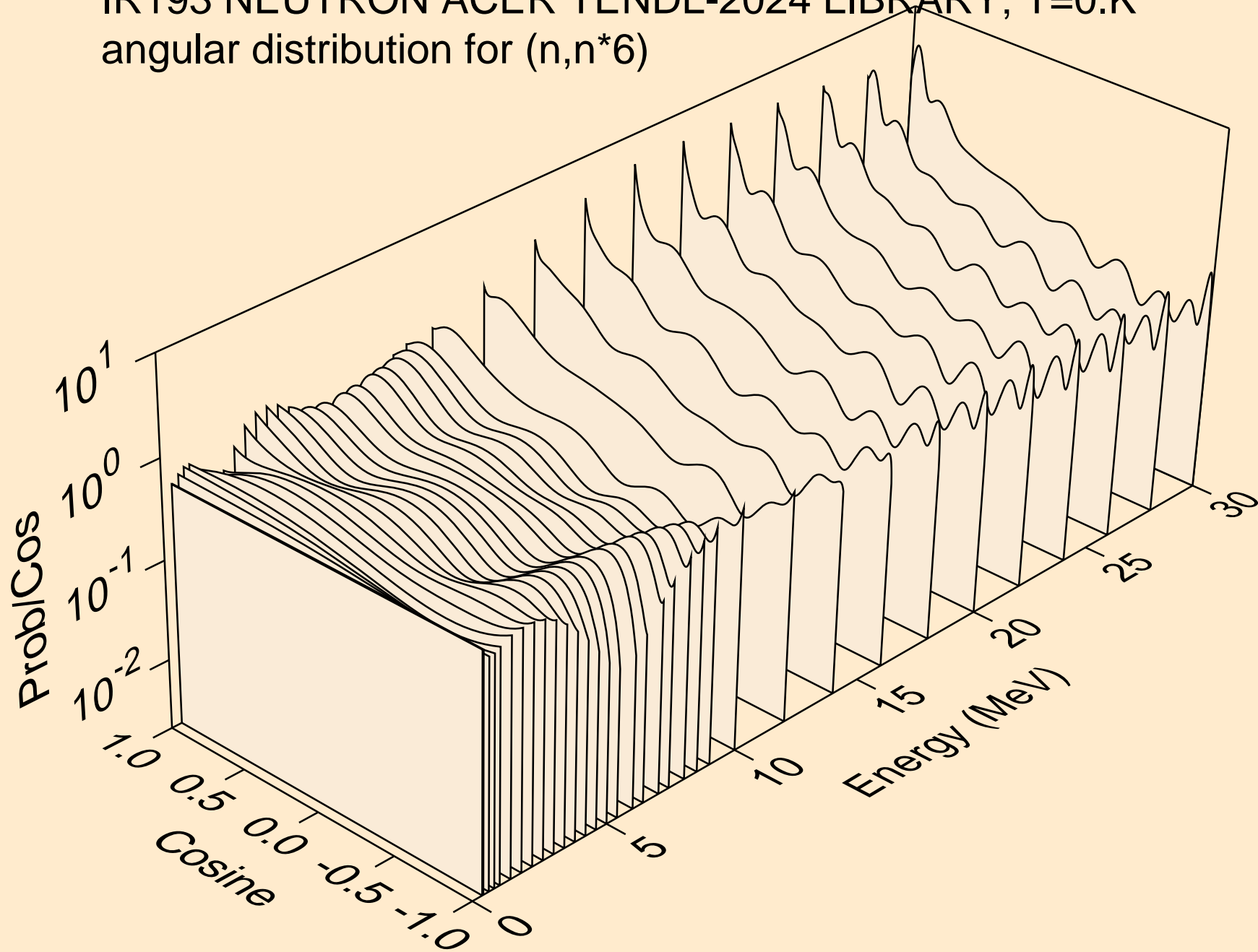
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



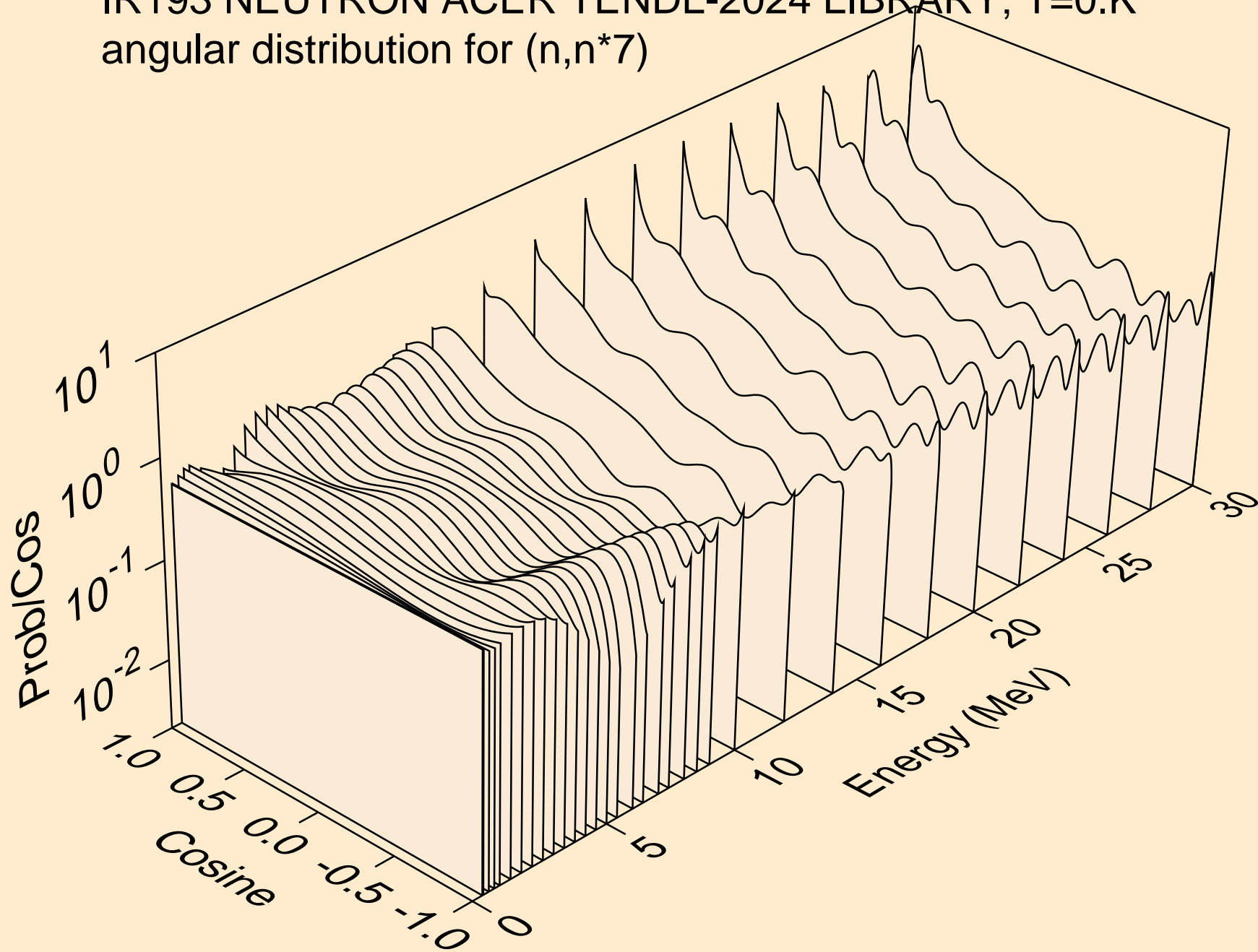
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



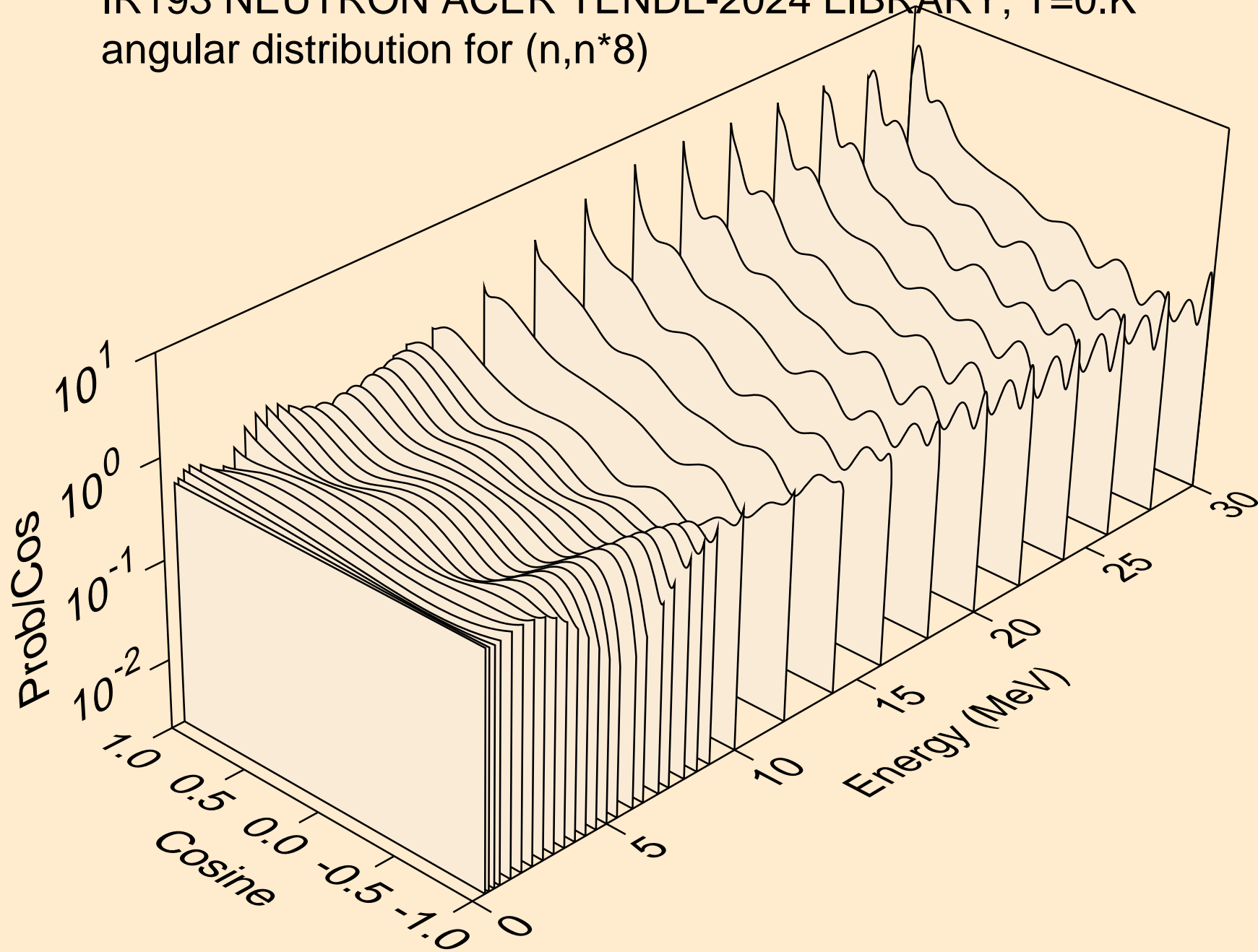
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angular distribution for (n,n\*6)



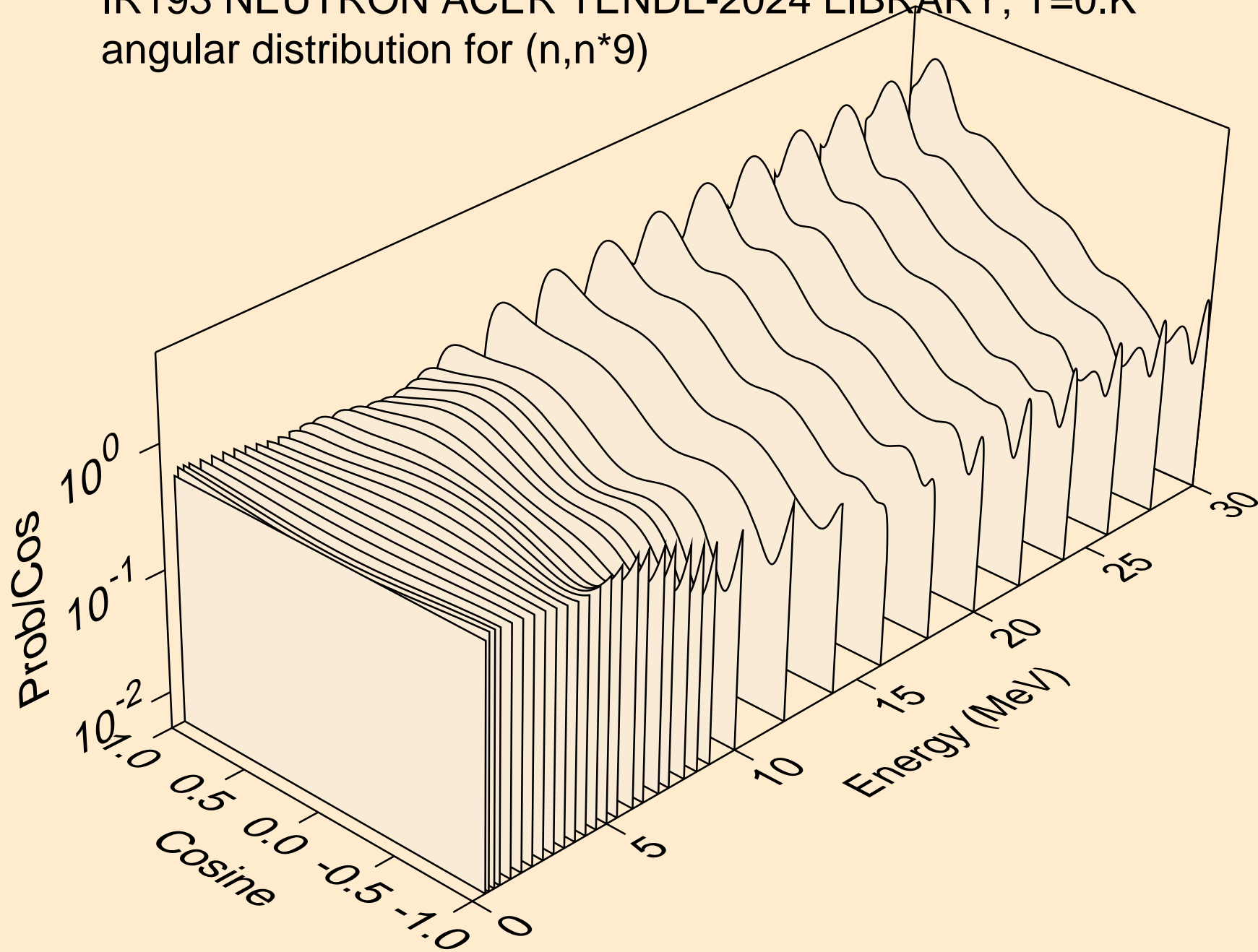
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angular distribution for (n,n\*7)



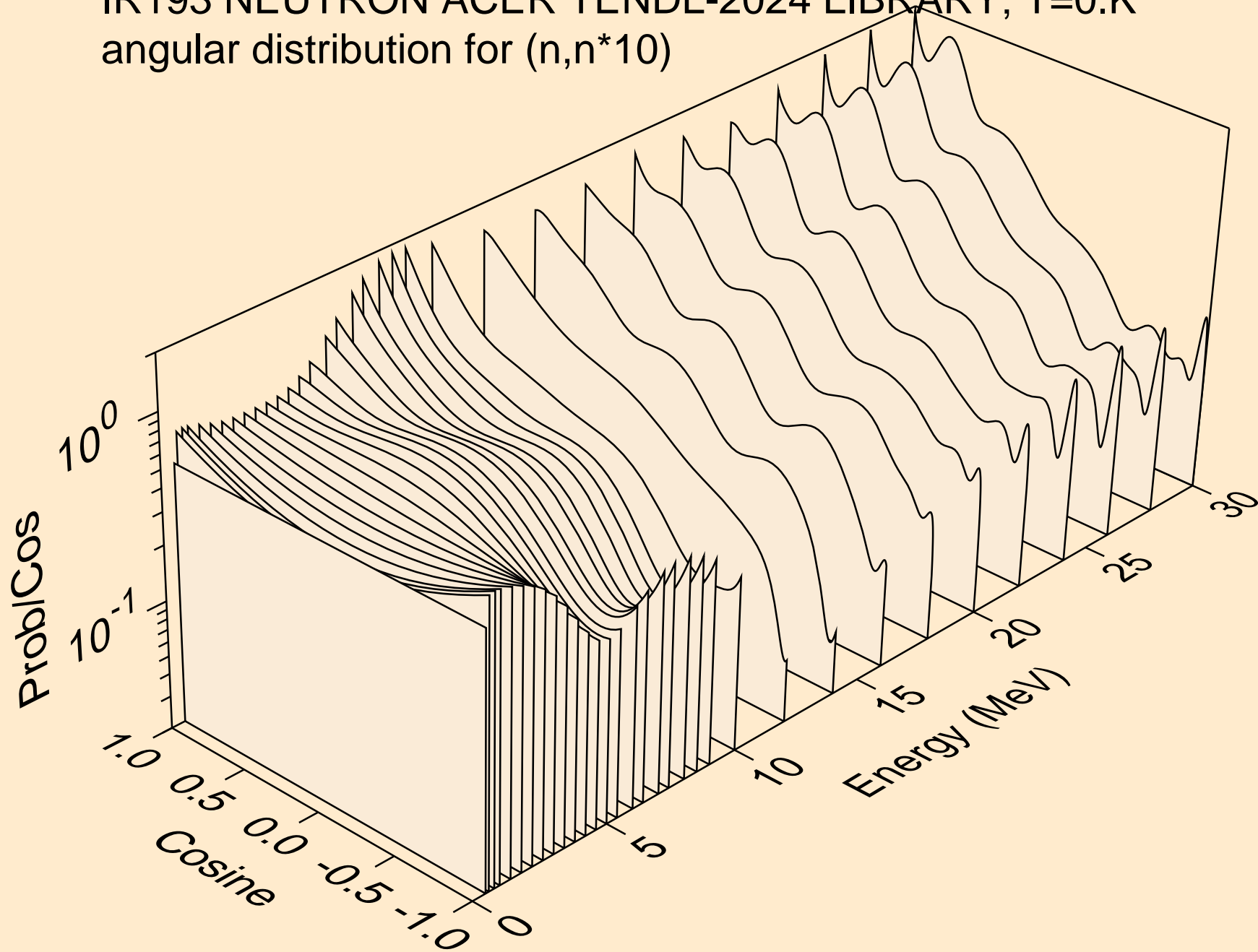
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



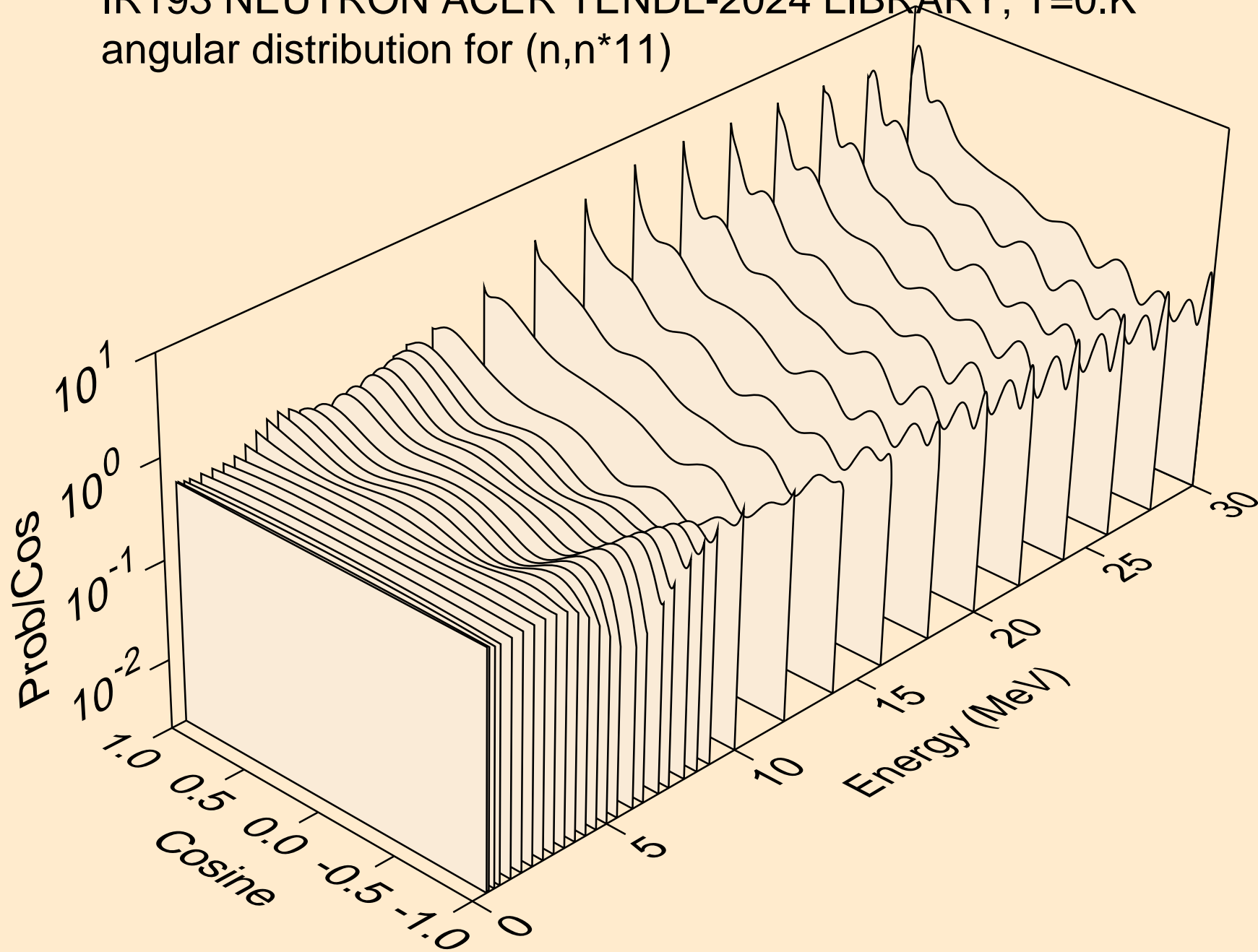
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angular distribution for (n,n\*9)



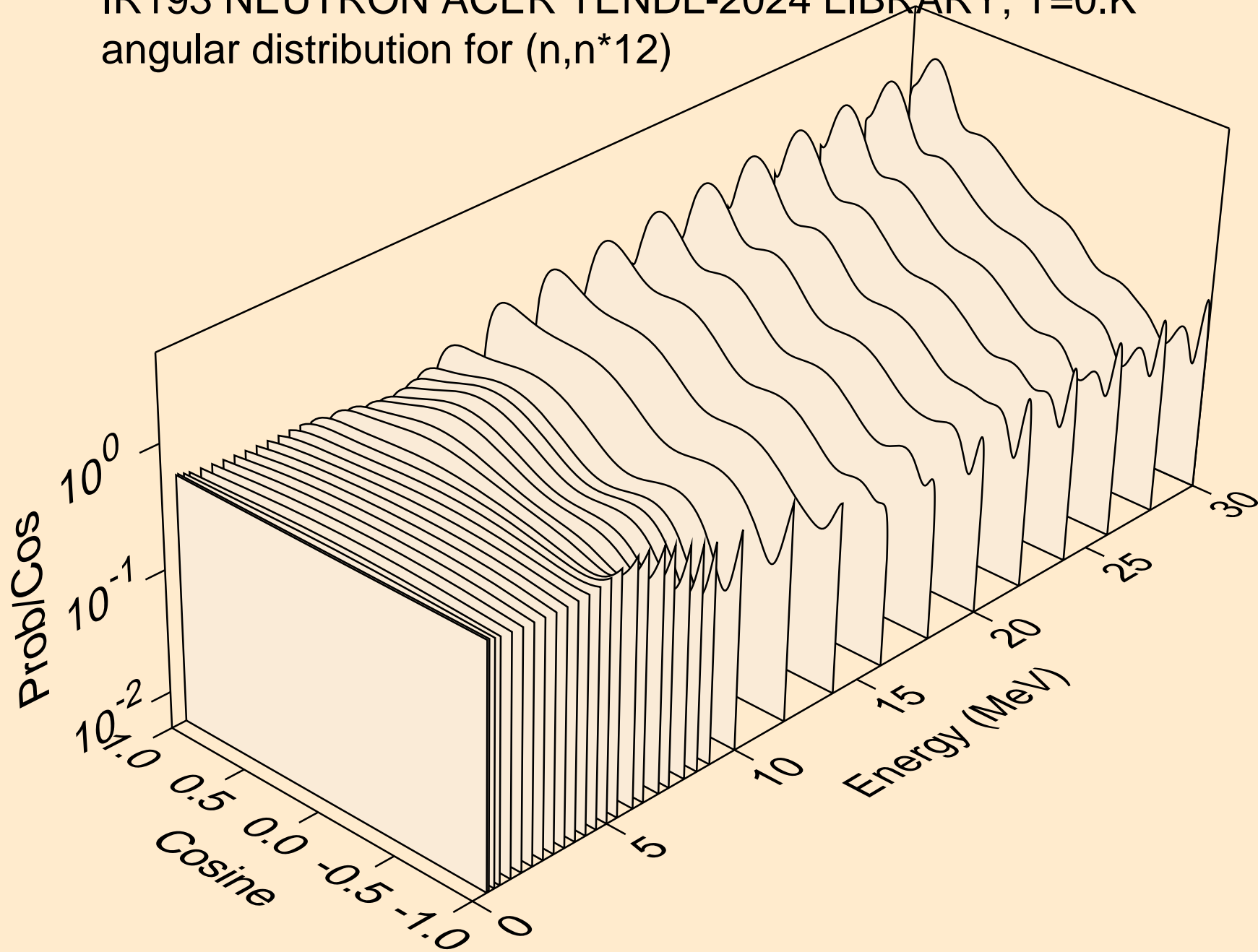
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angular distribution for (n,n\*10)



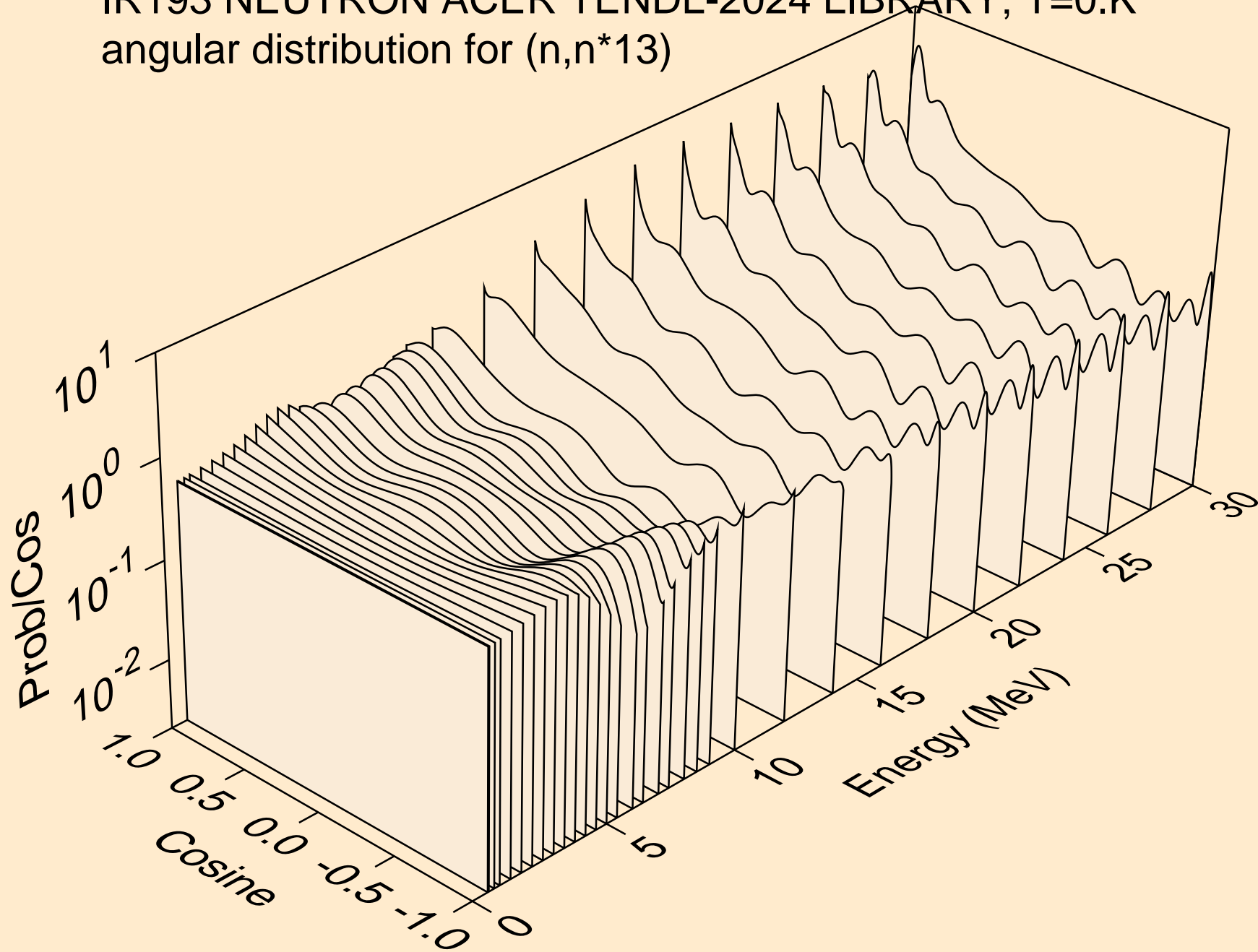
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



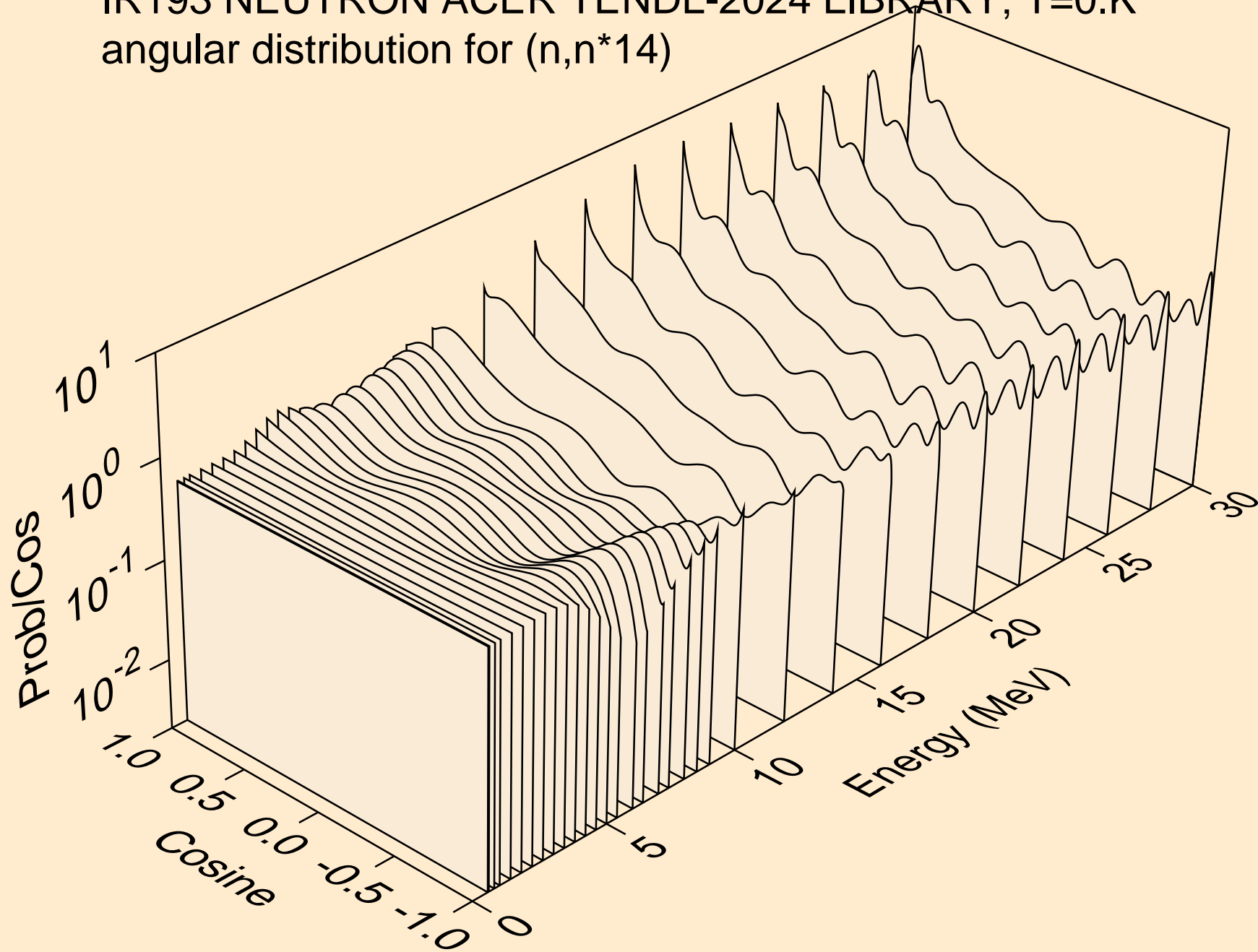
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angular distribution for (n,n\*12)



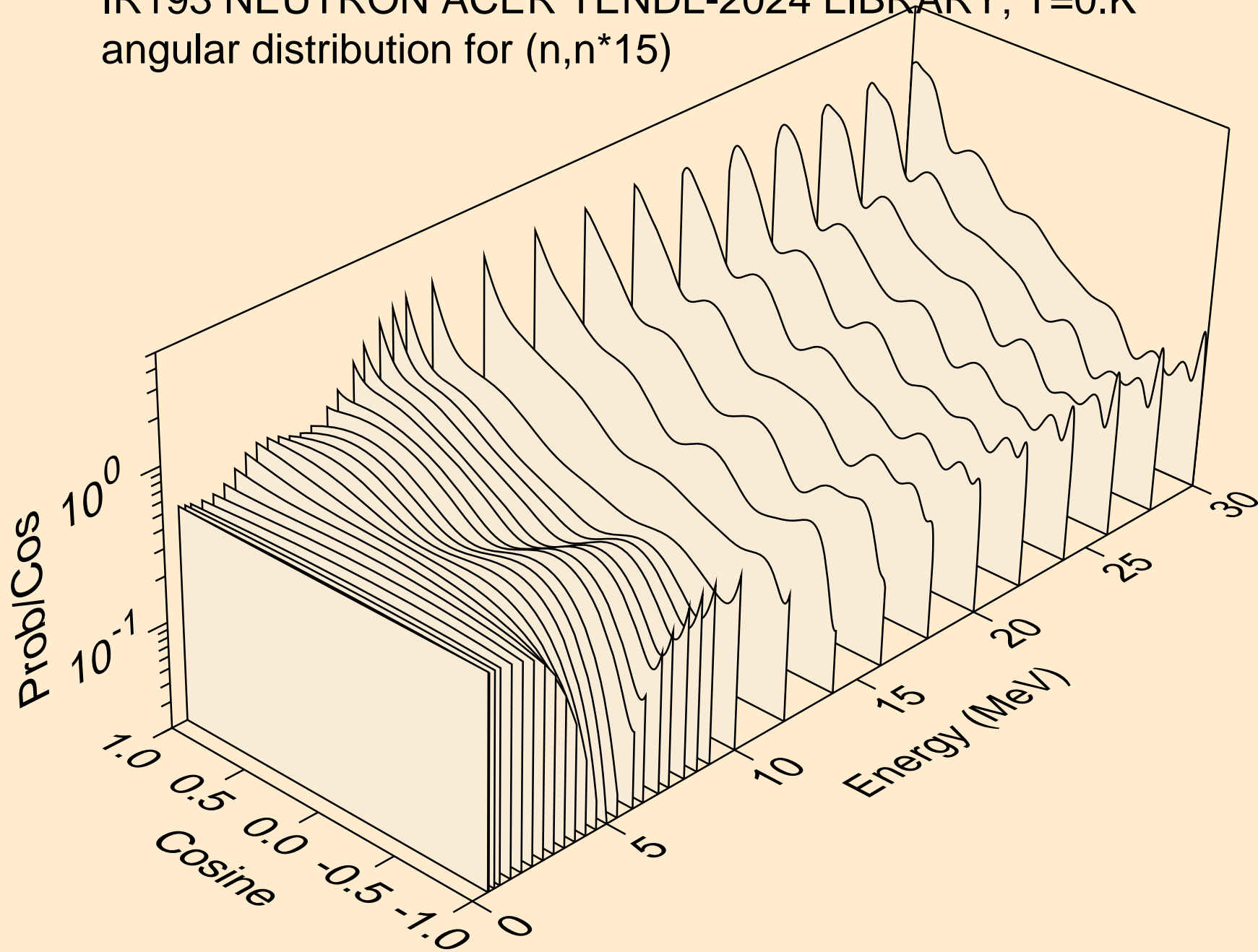
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angular distribution for (n,n\*13)



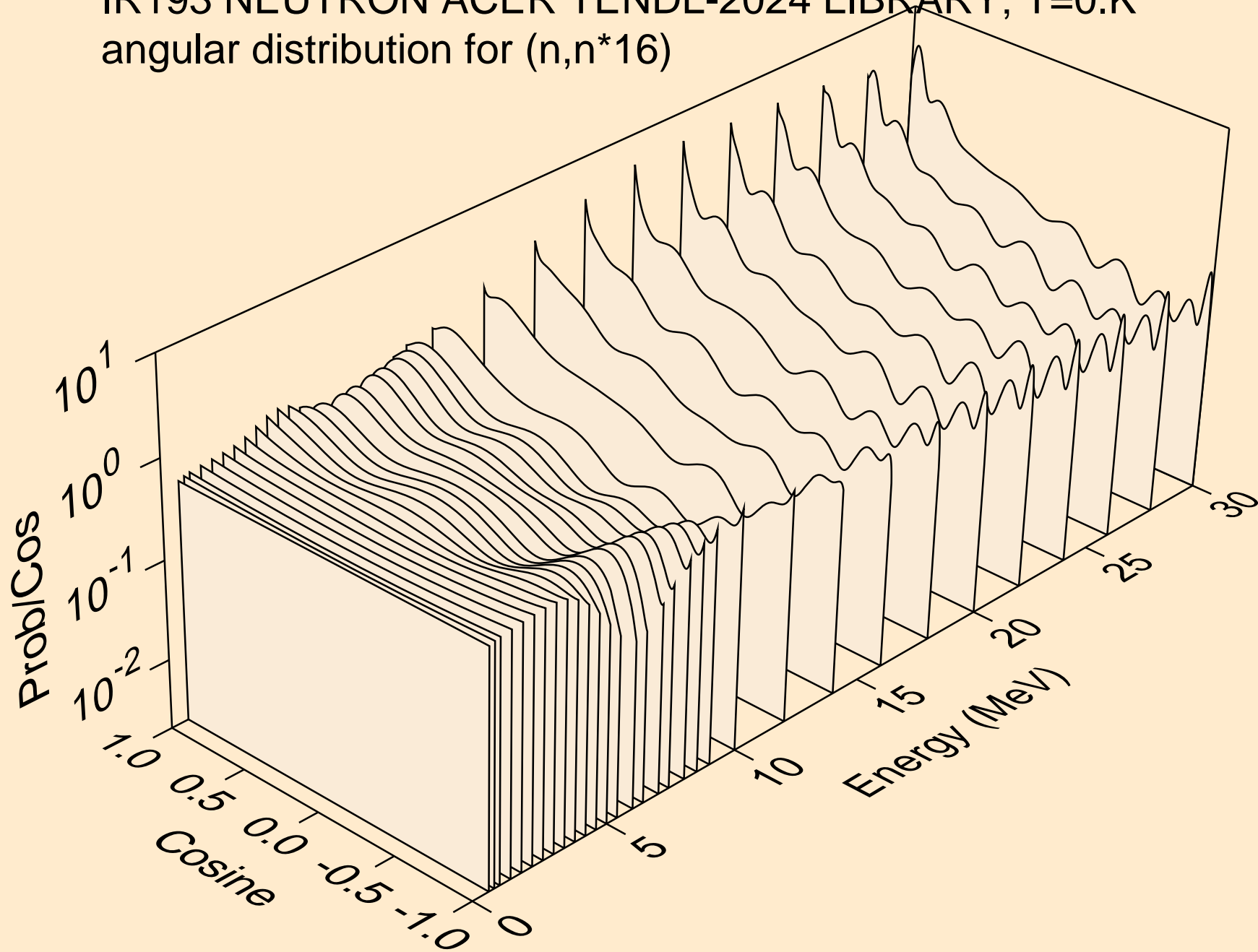
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angular distribution for (n,n\*14)



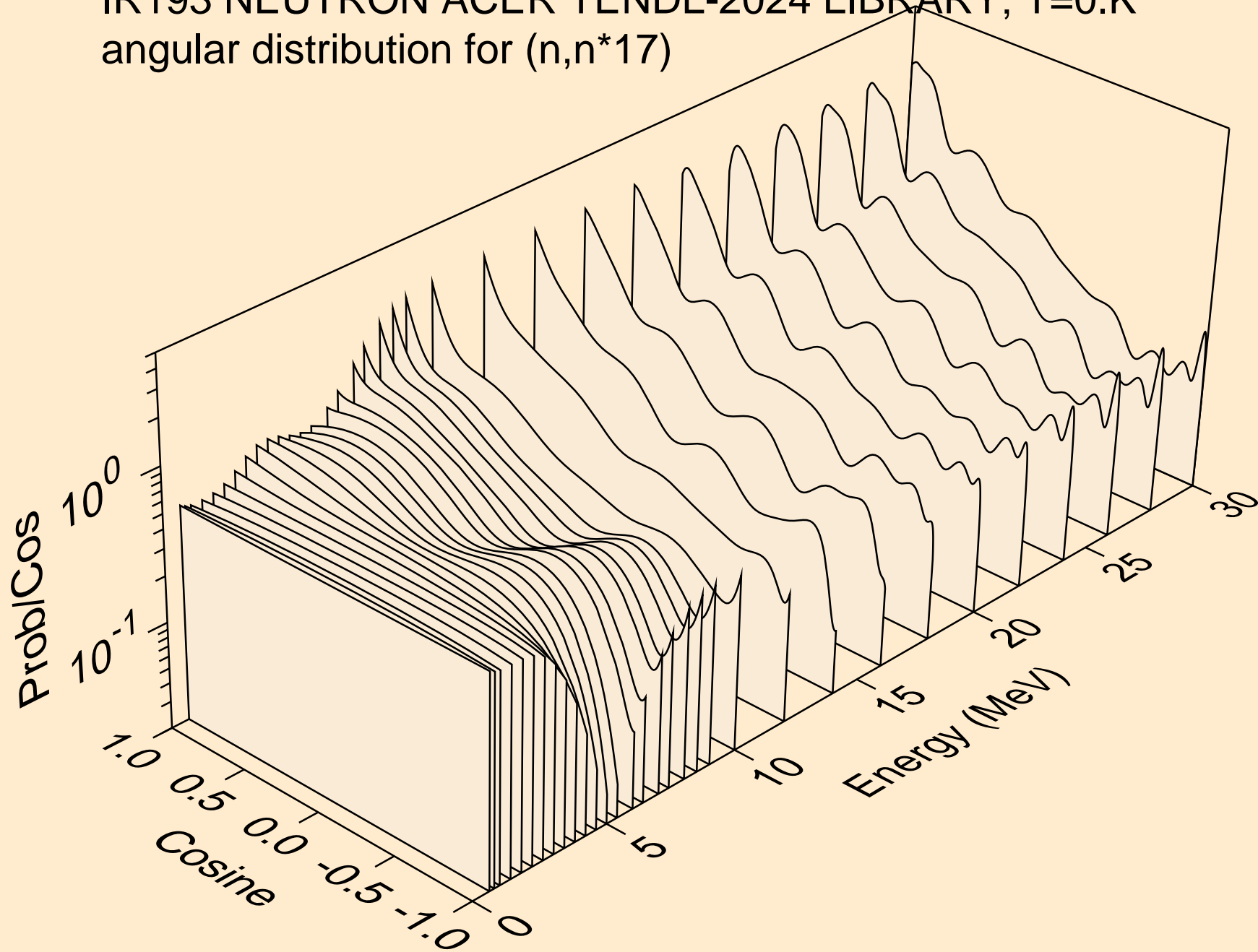
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angular distribution for (n,n\*15)



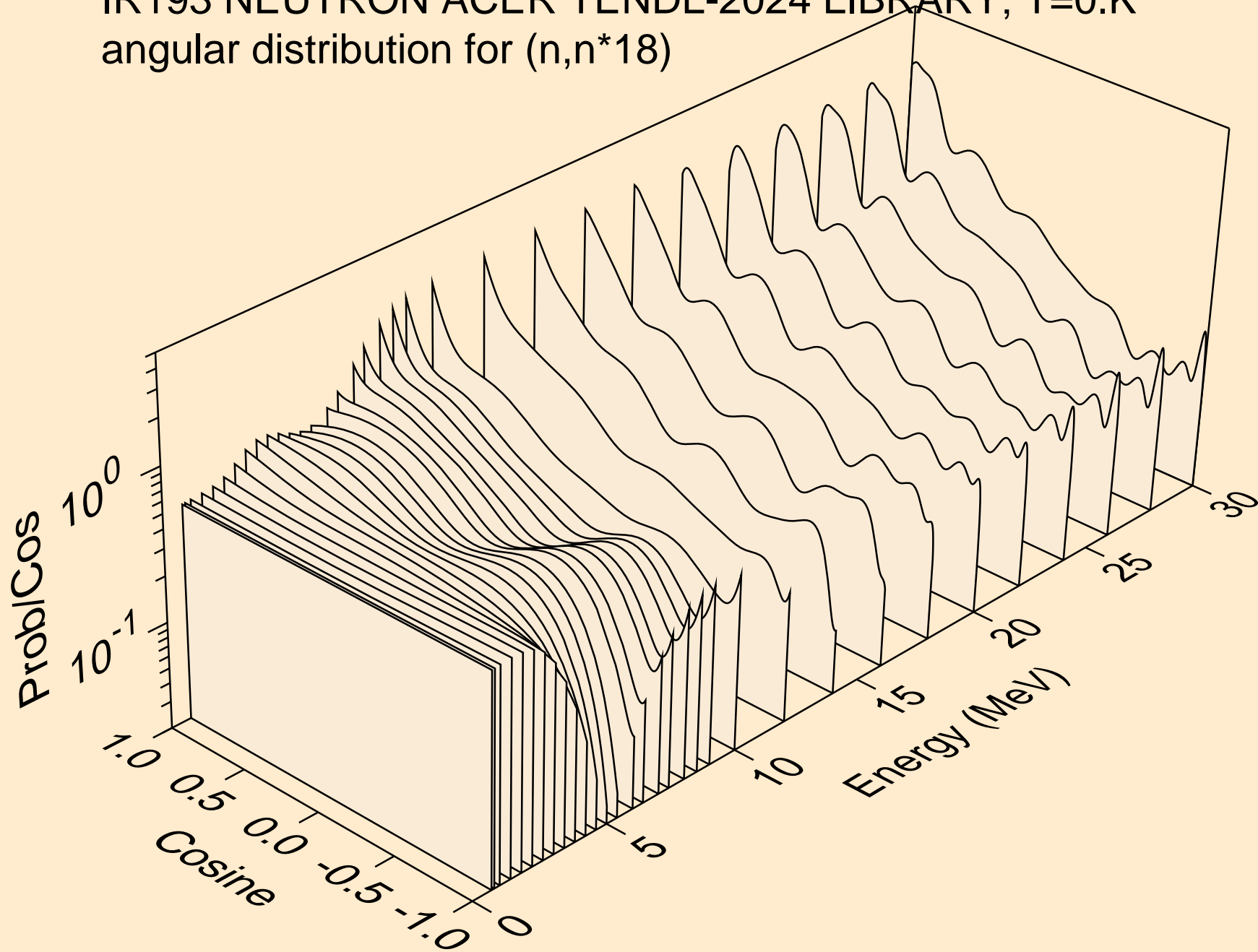
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angular distribution for (n,n\*16)



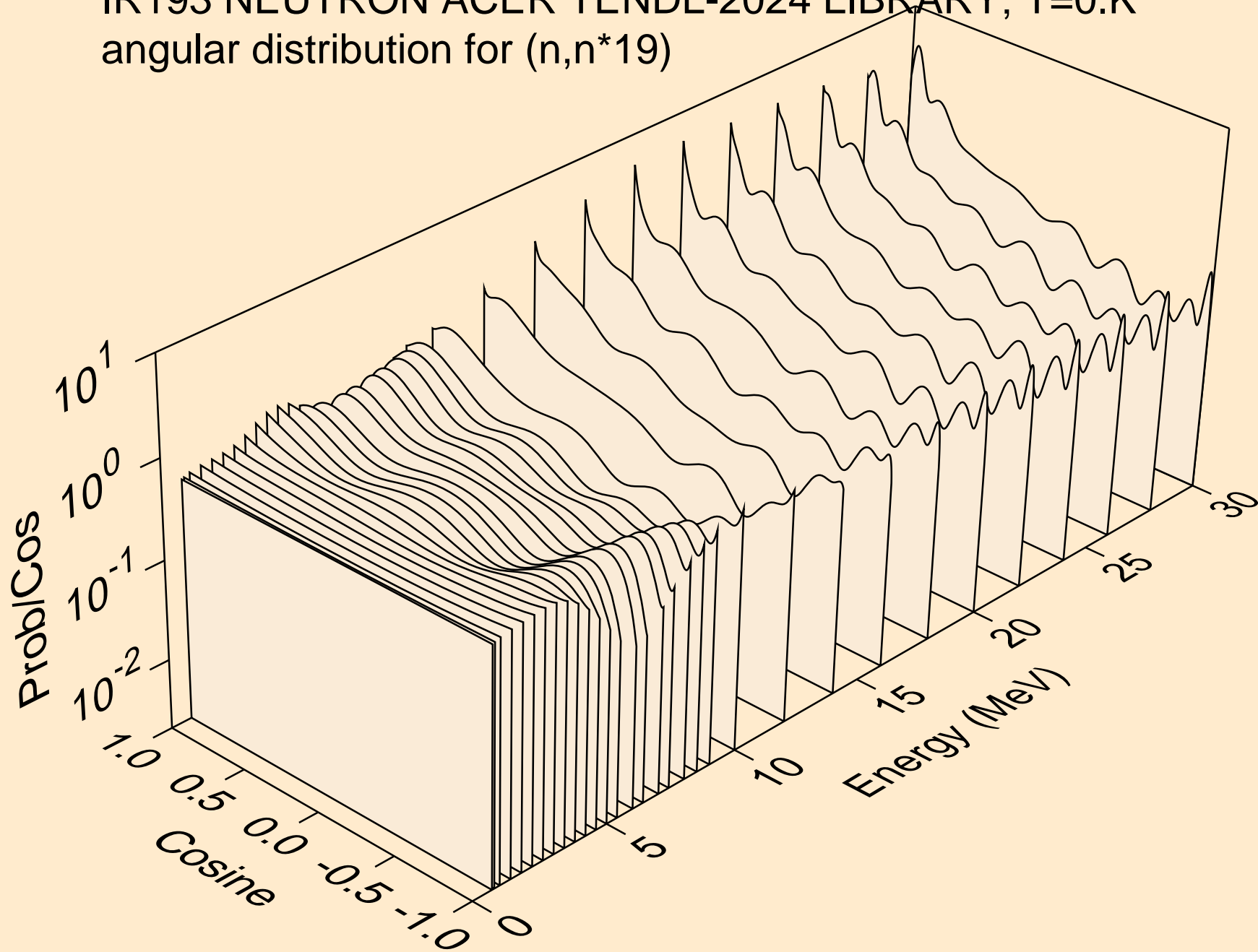
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angular distribution for (n,n\*17)



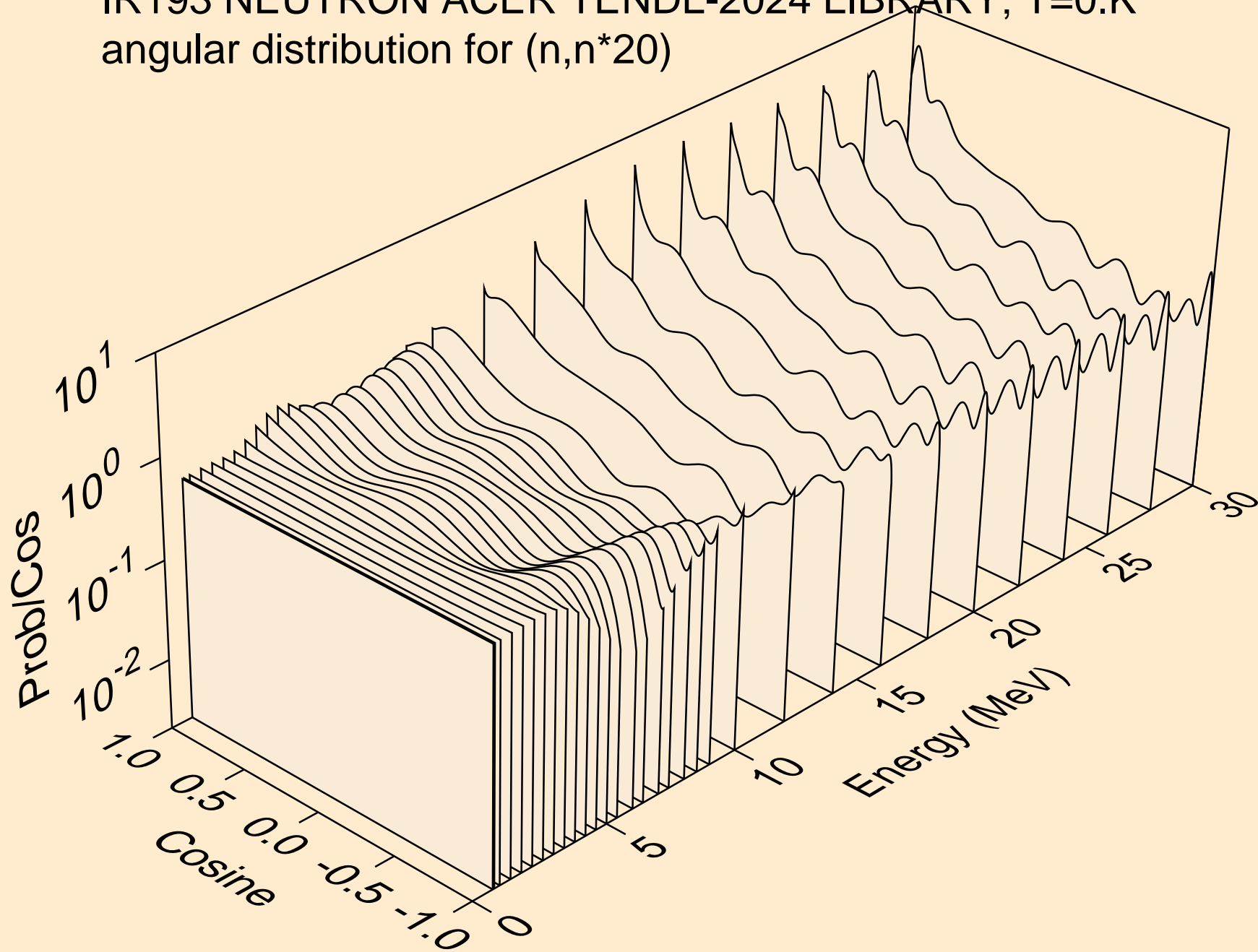
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angular distribution for (n,n\*18)



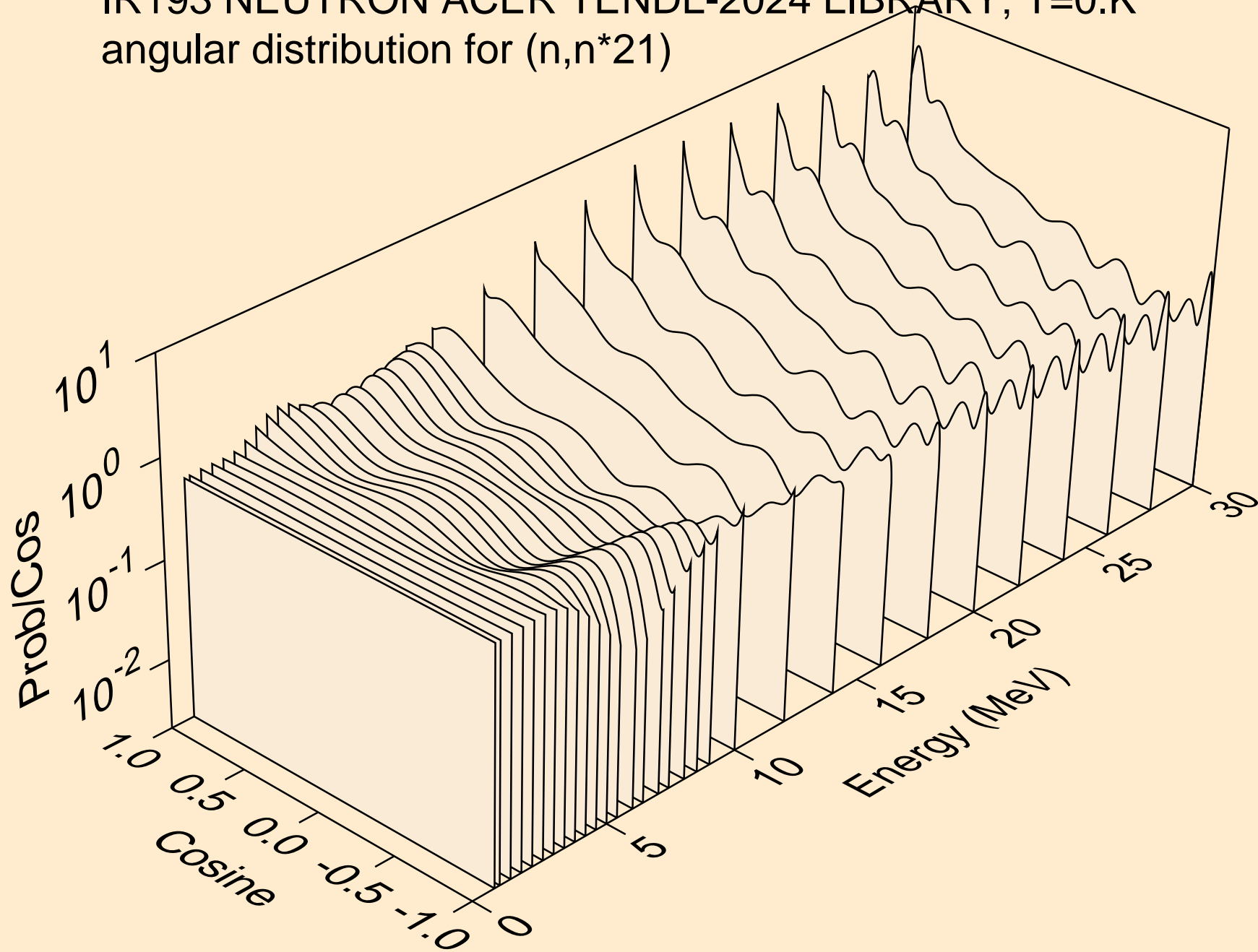
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angular distribution for (n,n\*19)



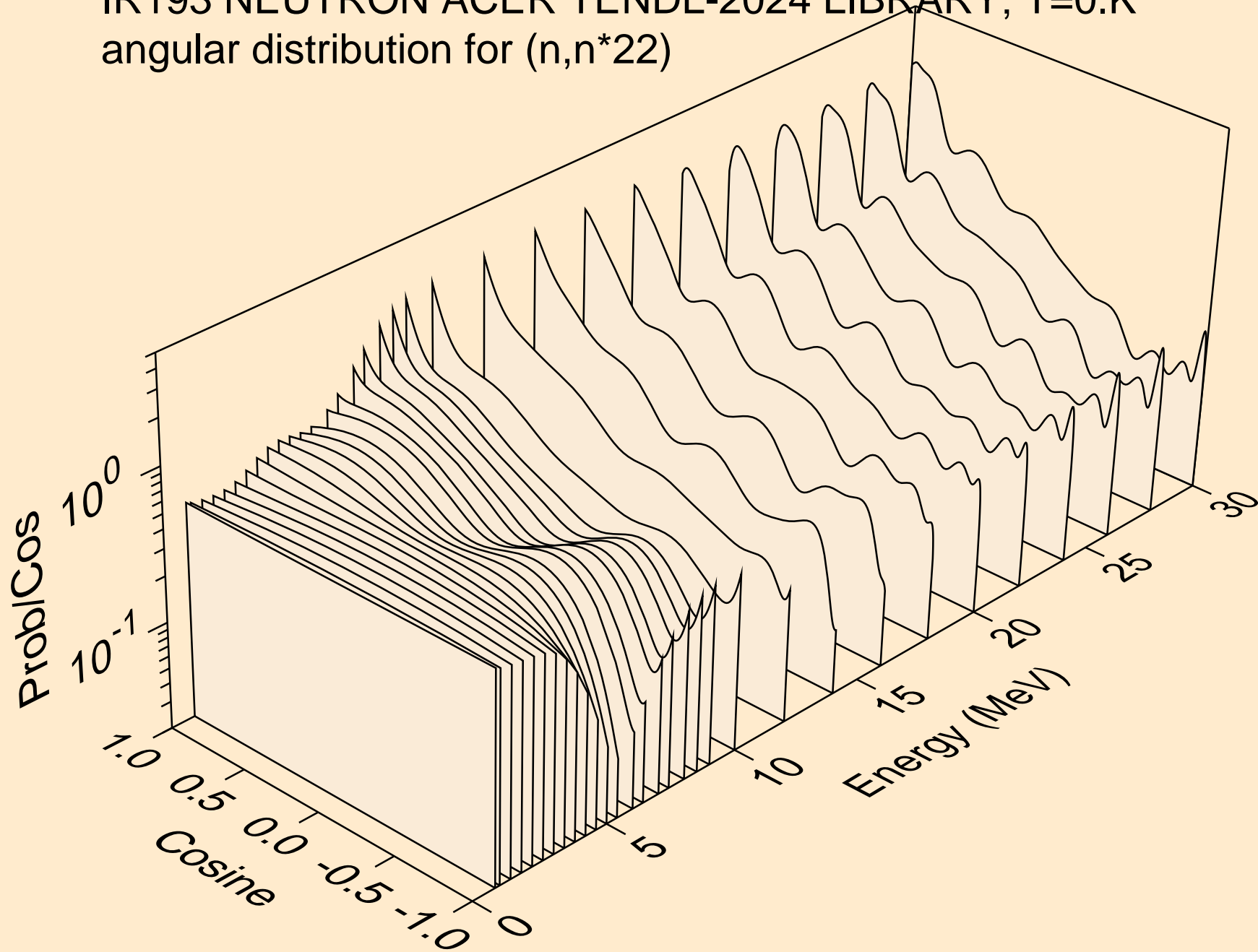
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angular distribution for (n,n\*20)



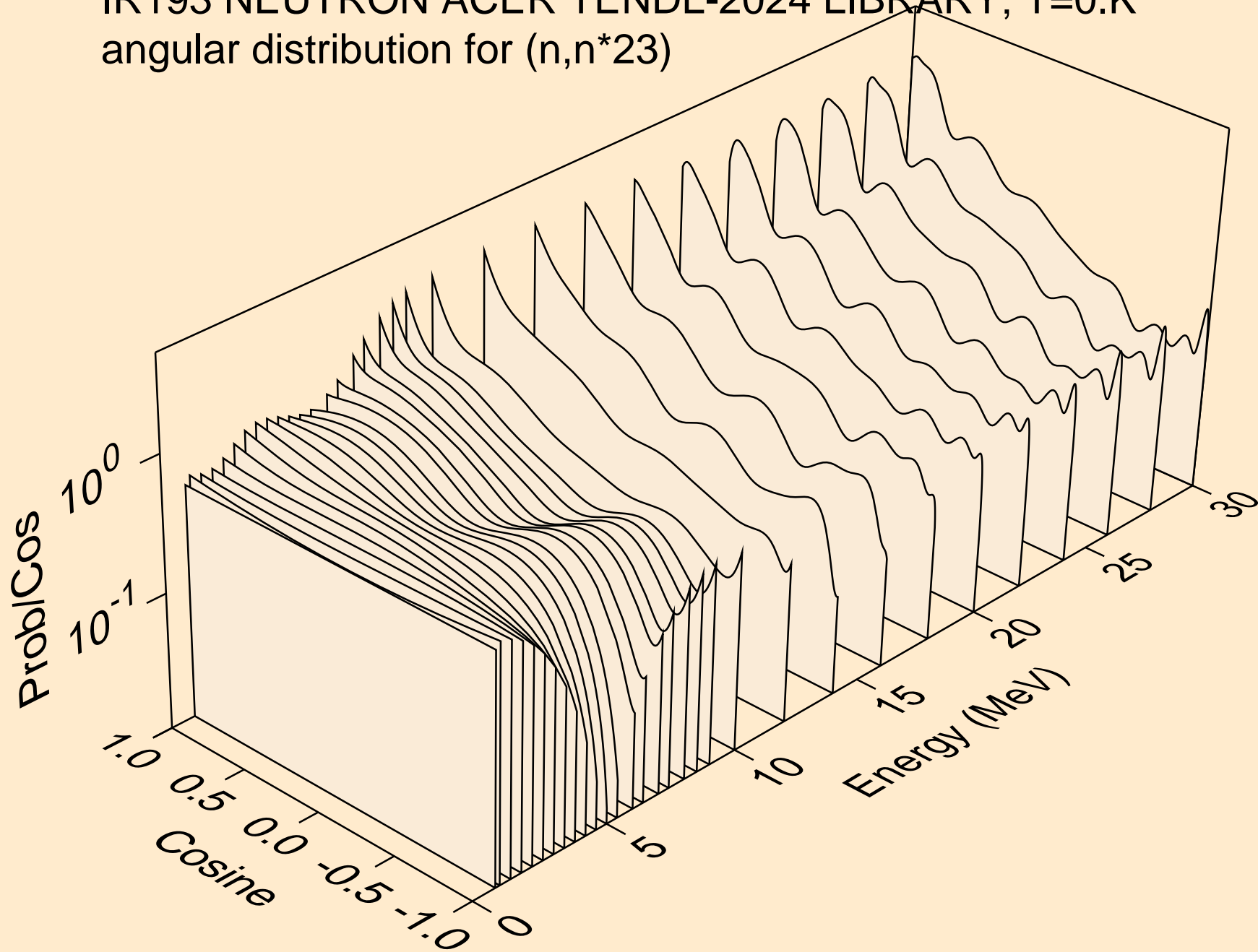
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angular distribution for (n,n\*21)



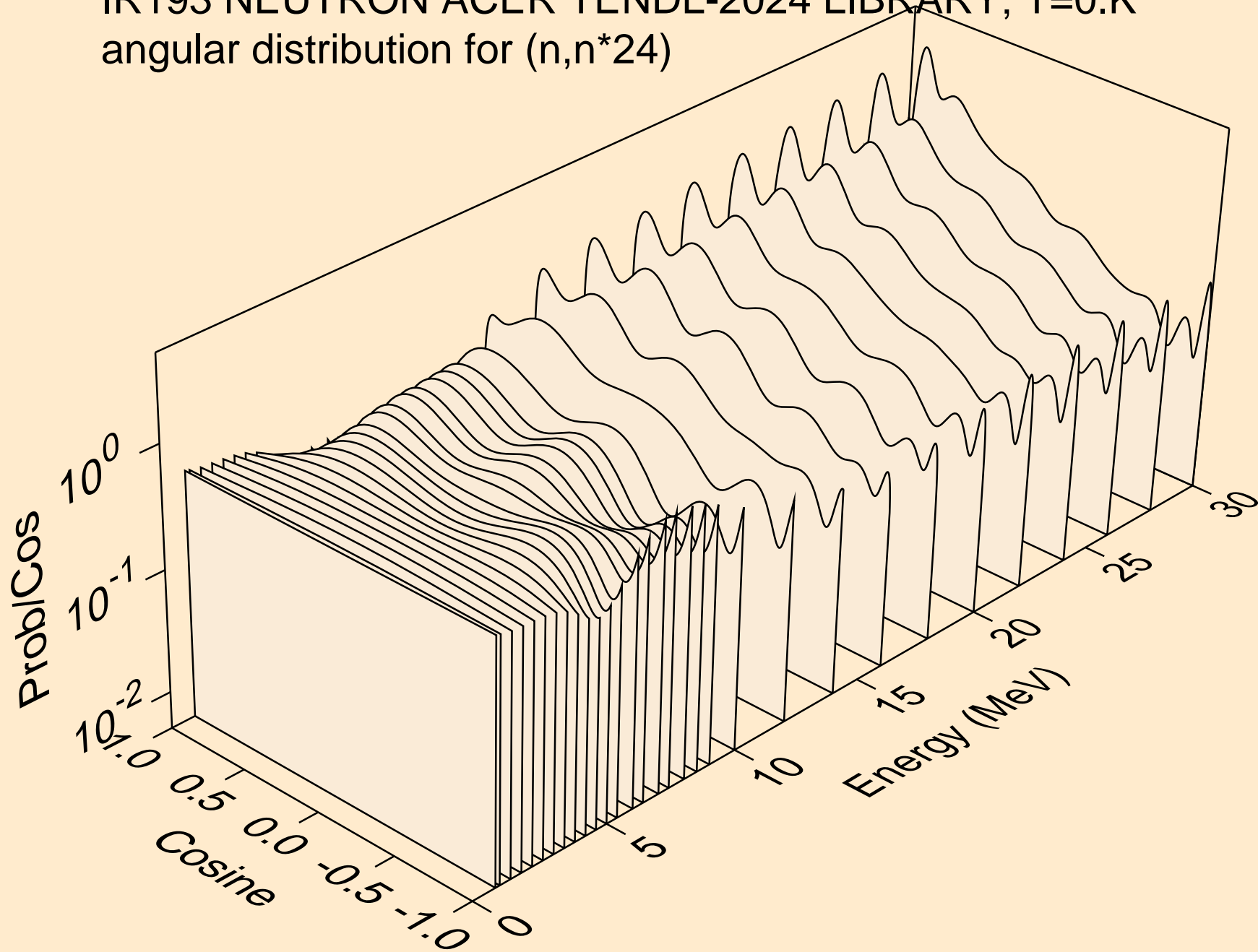
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angular distribution for (n,n\*22)



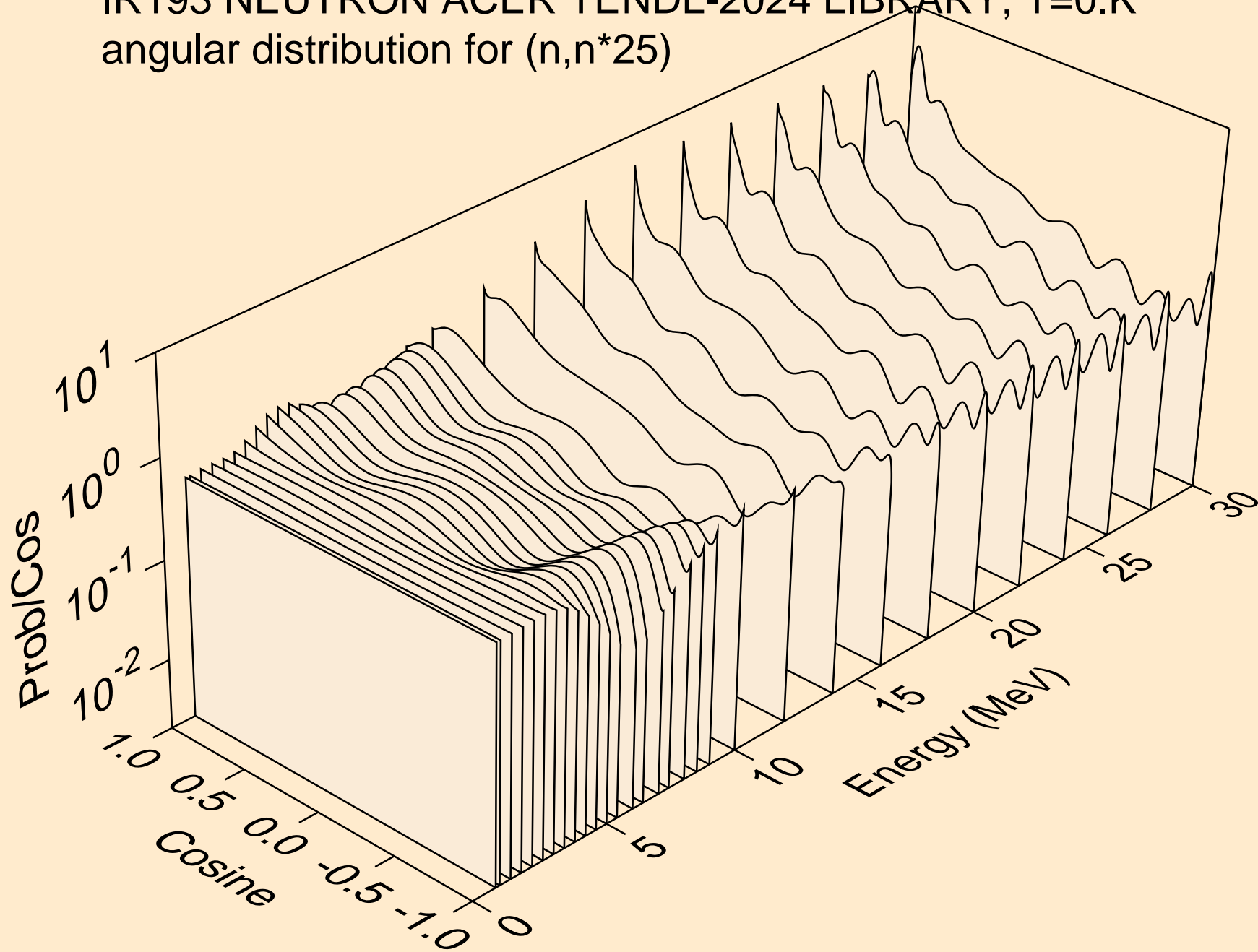
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angular distribution for (n,n\*23)



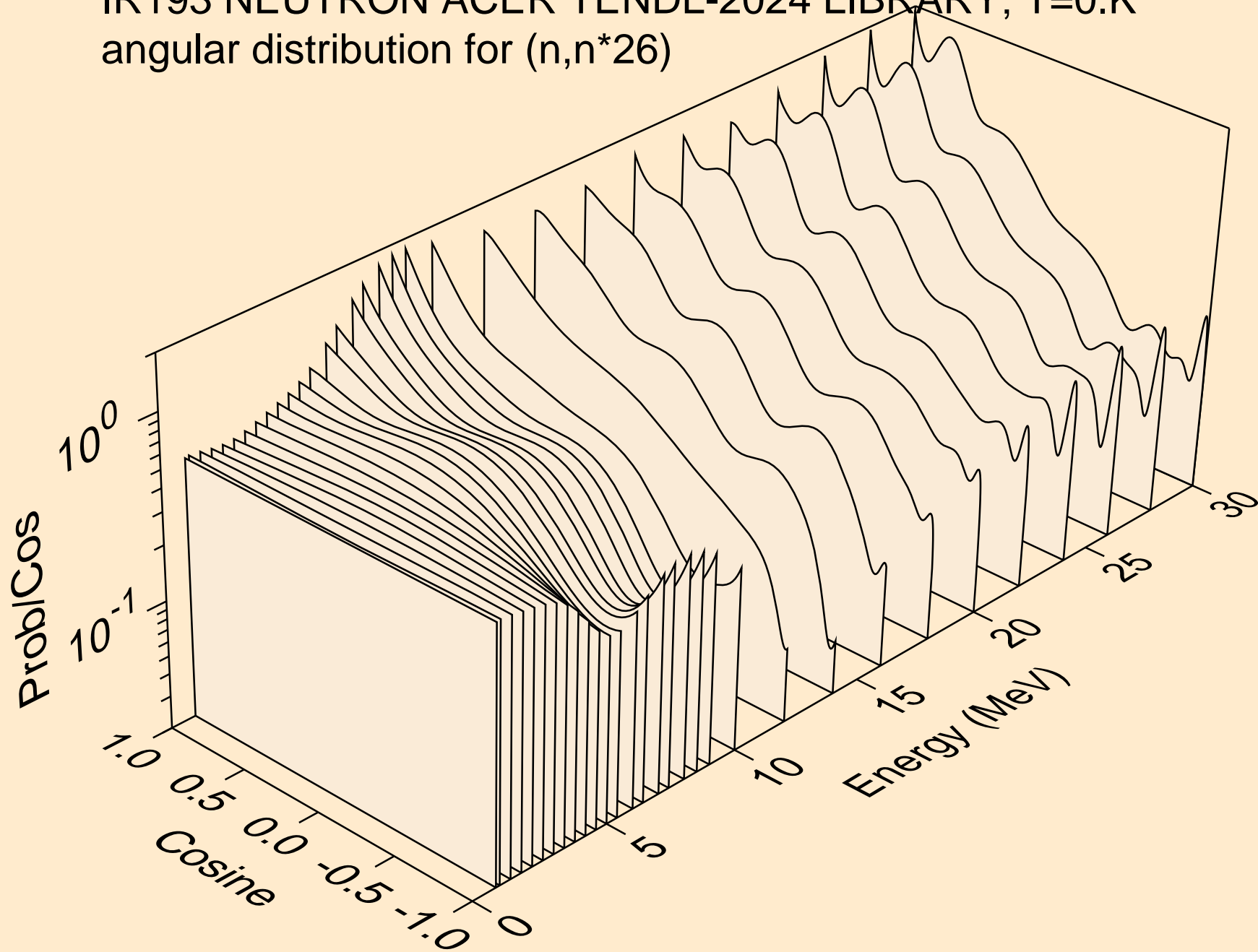
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*24)



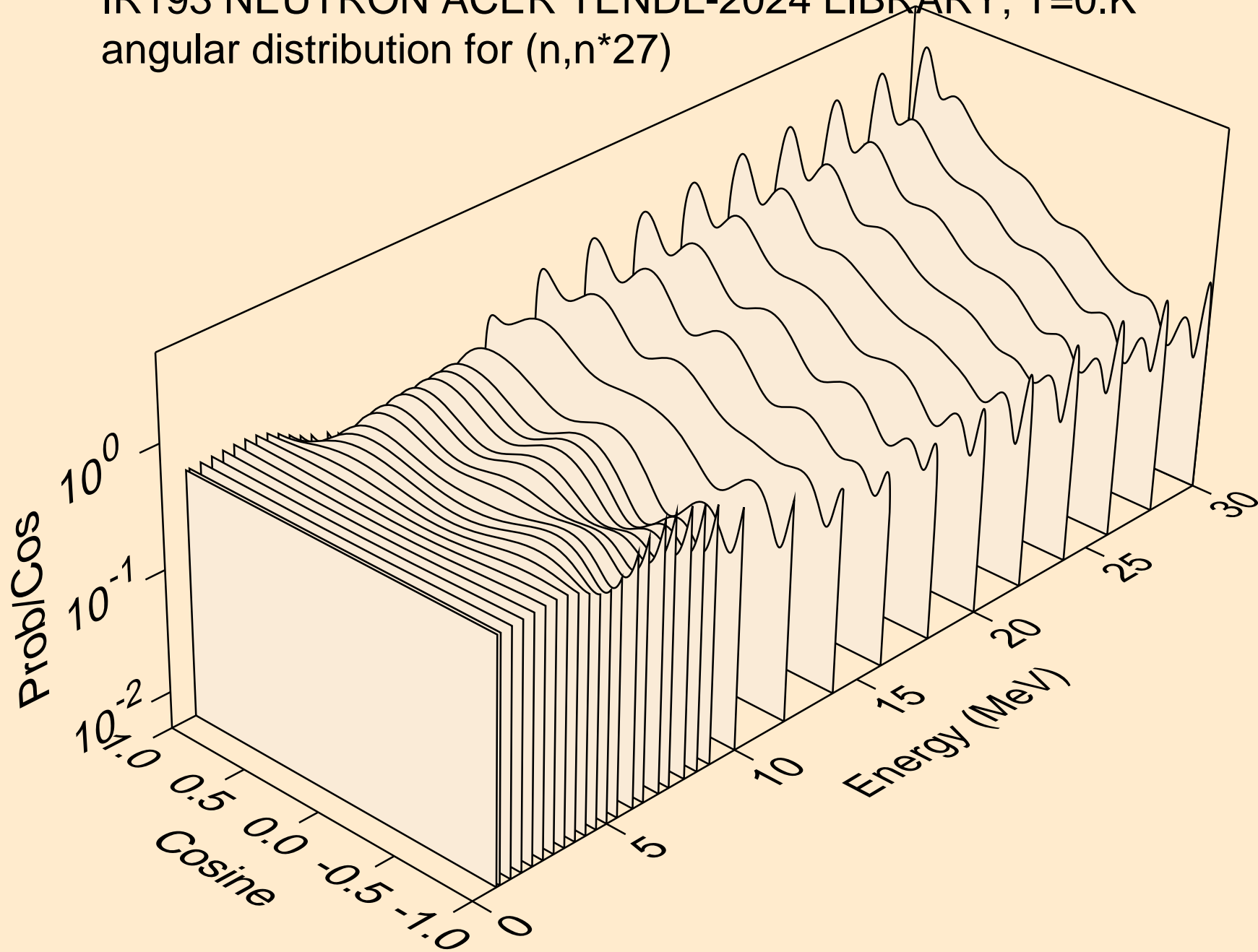
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*25)



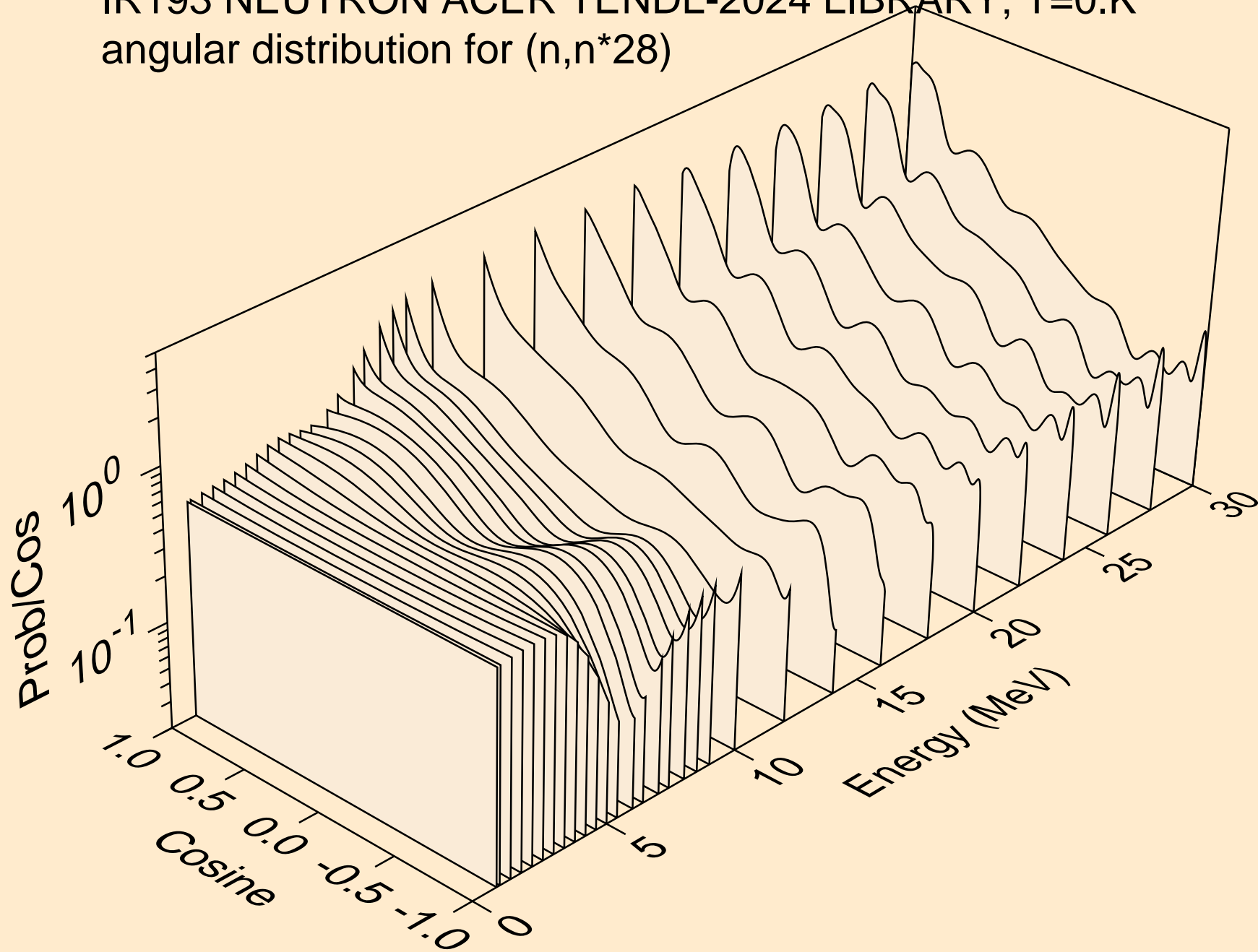
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*26)



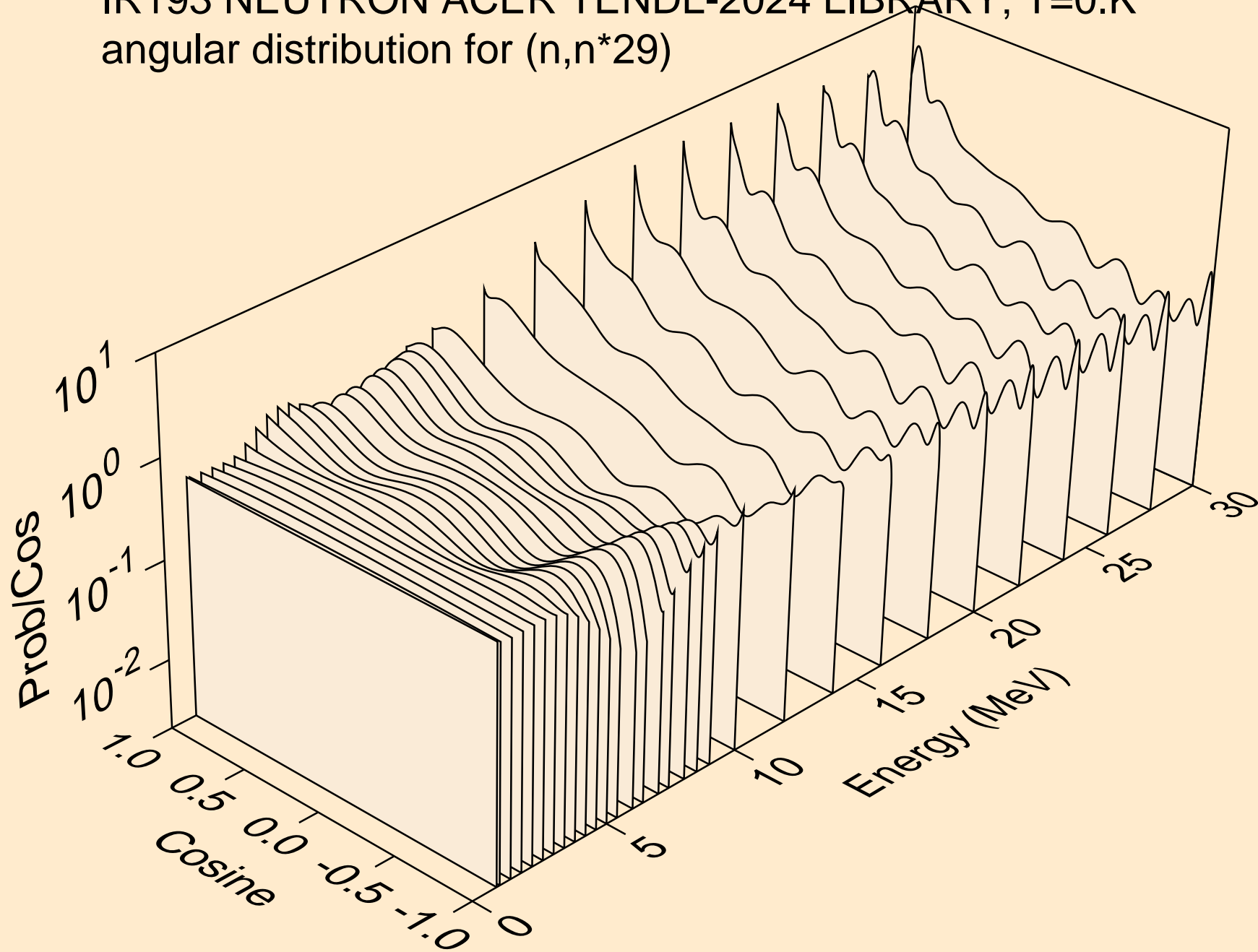
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angular distribution for (n,n\*27)



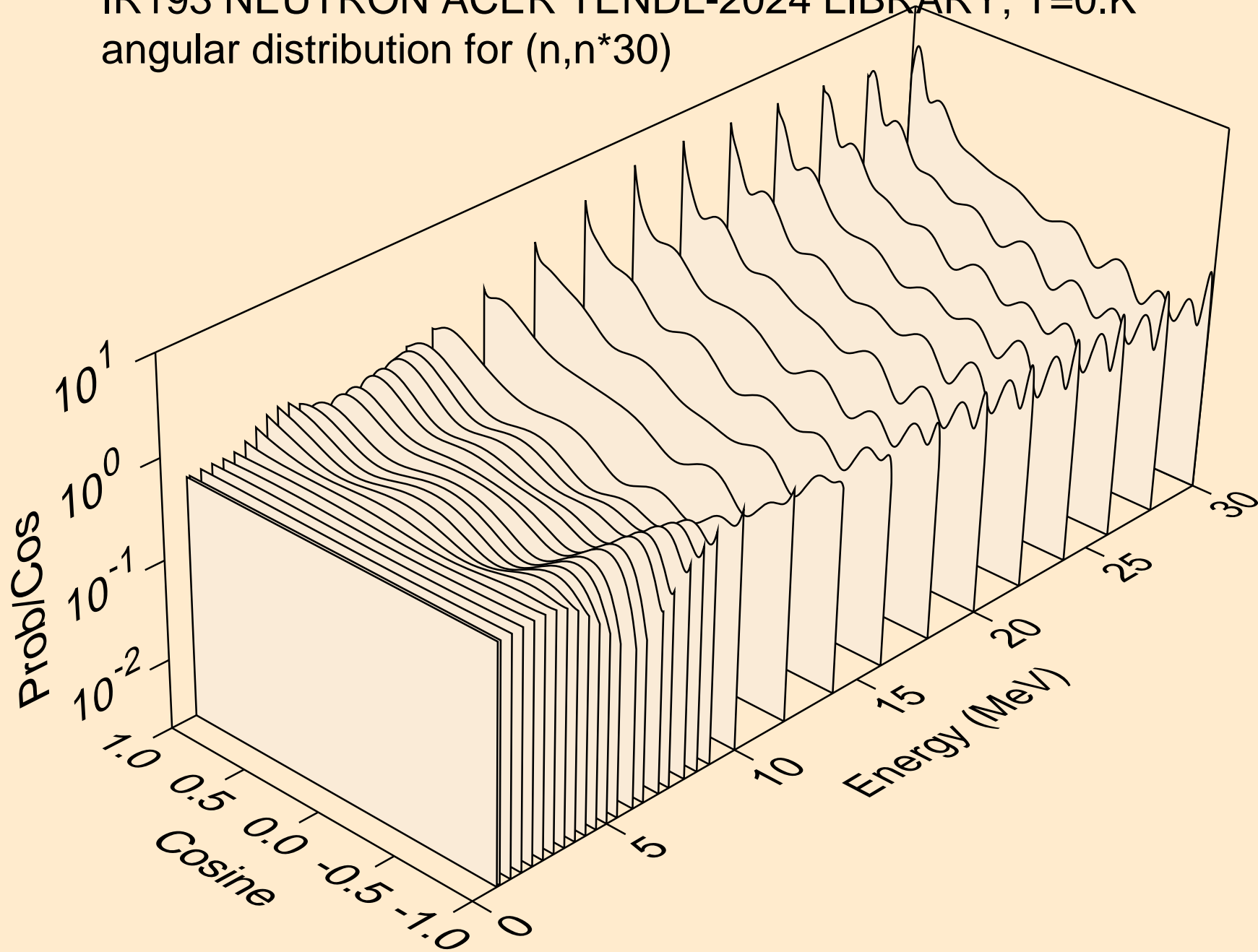
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angular distribution for (n,n\*28)



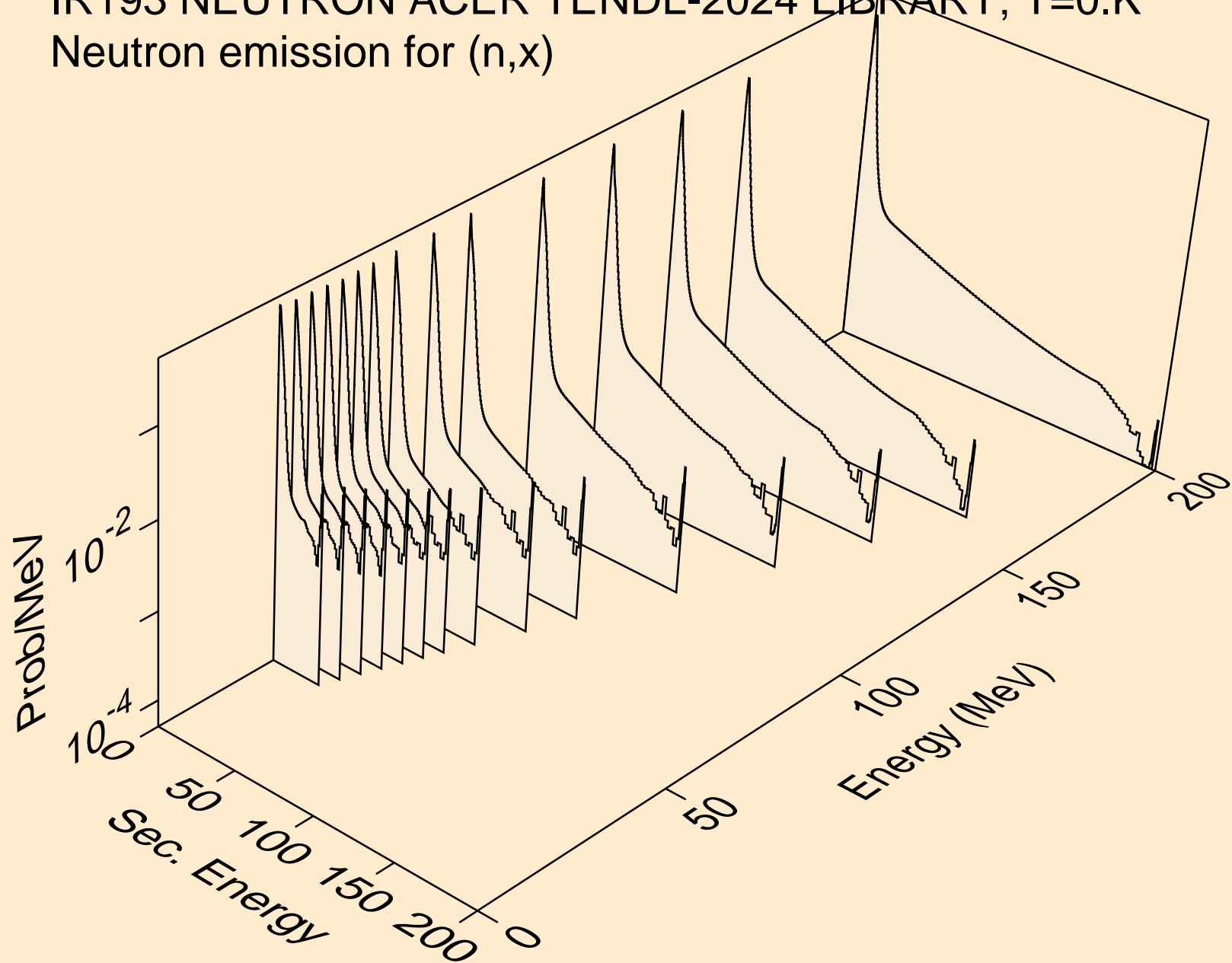
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*29)



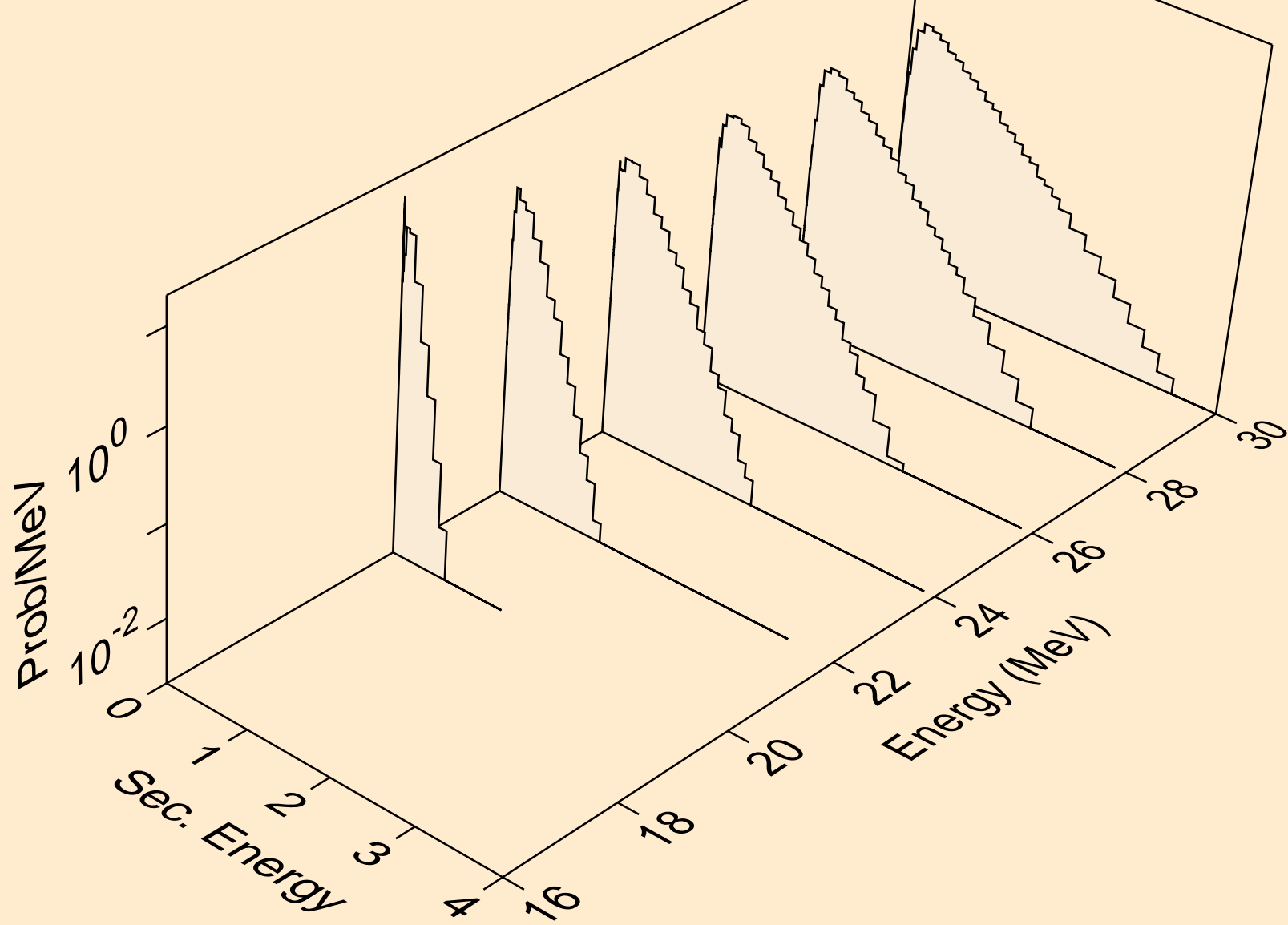
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angular distribution for (n,n\*30)



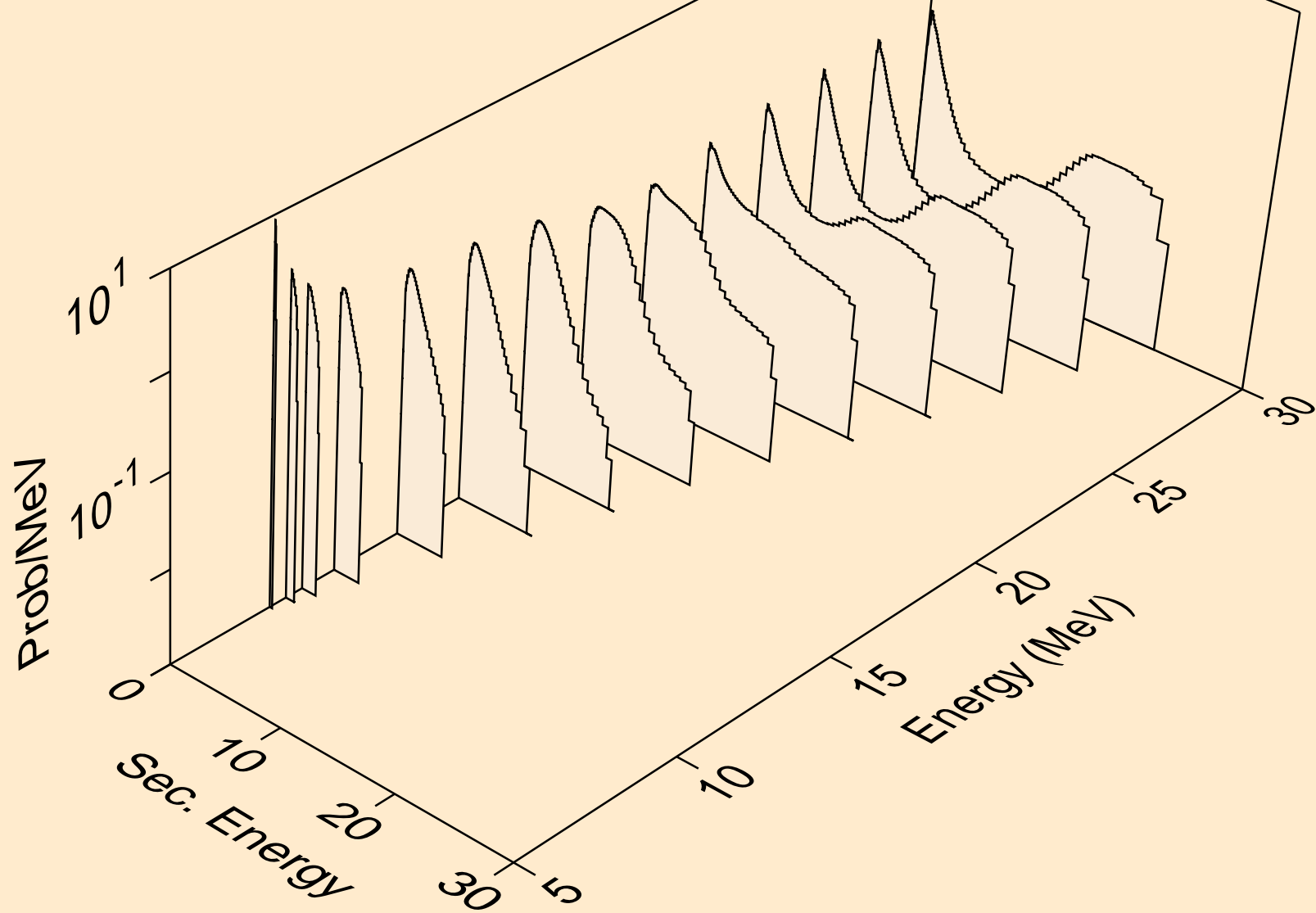
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)



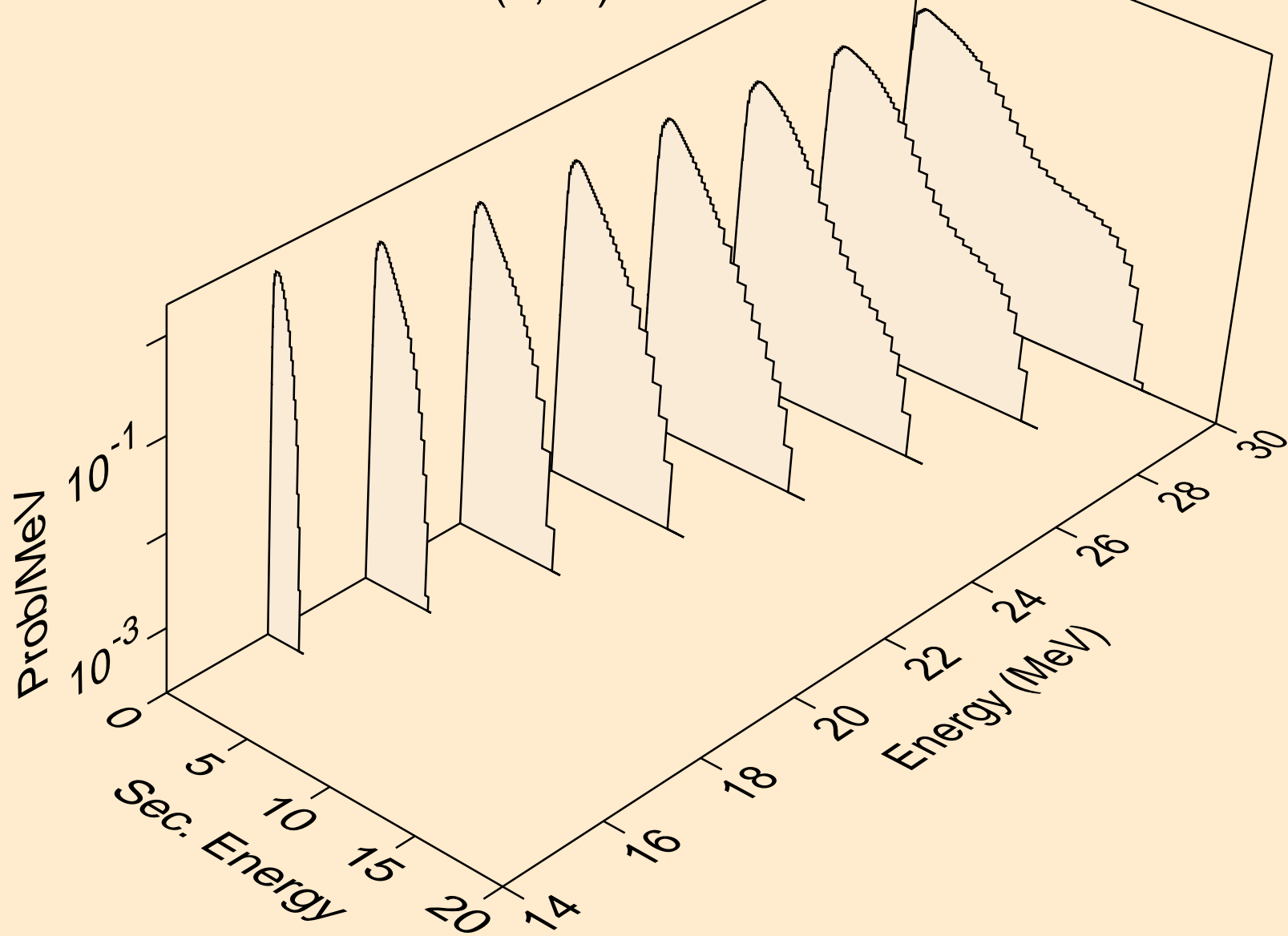
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



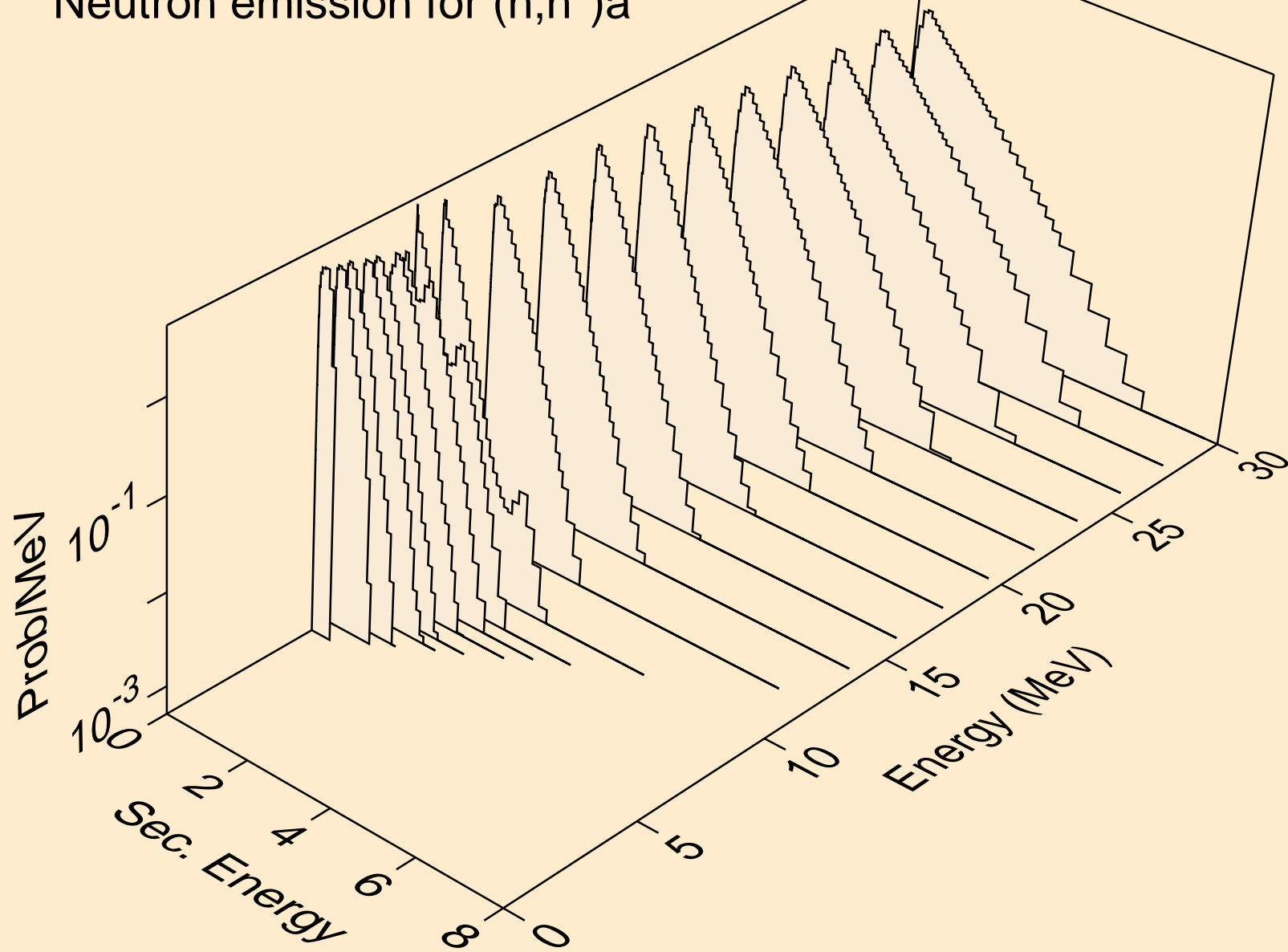
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



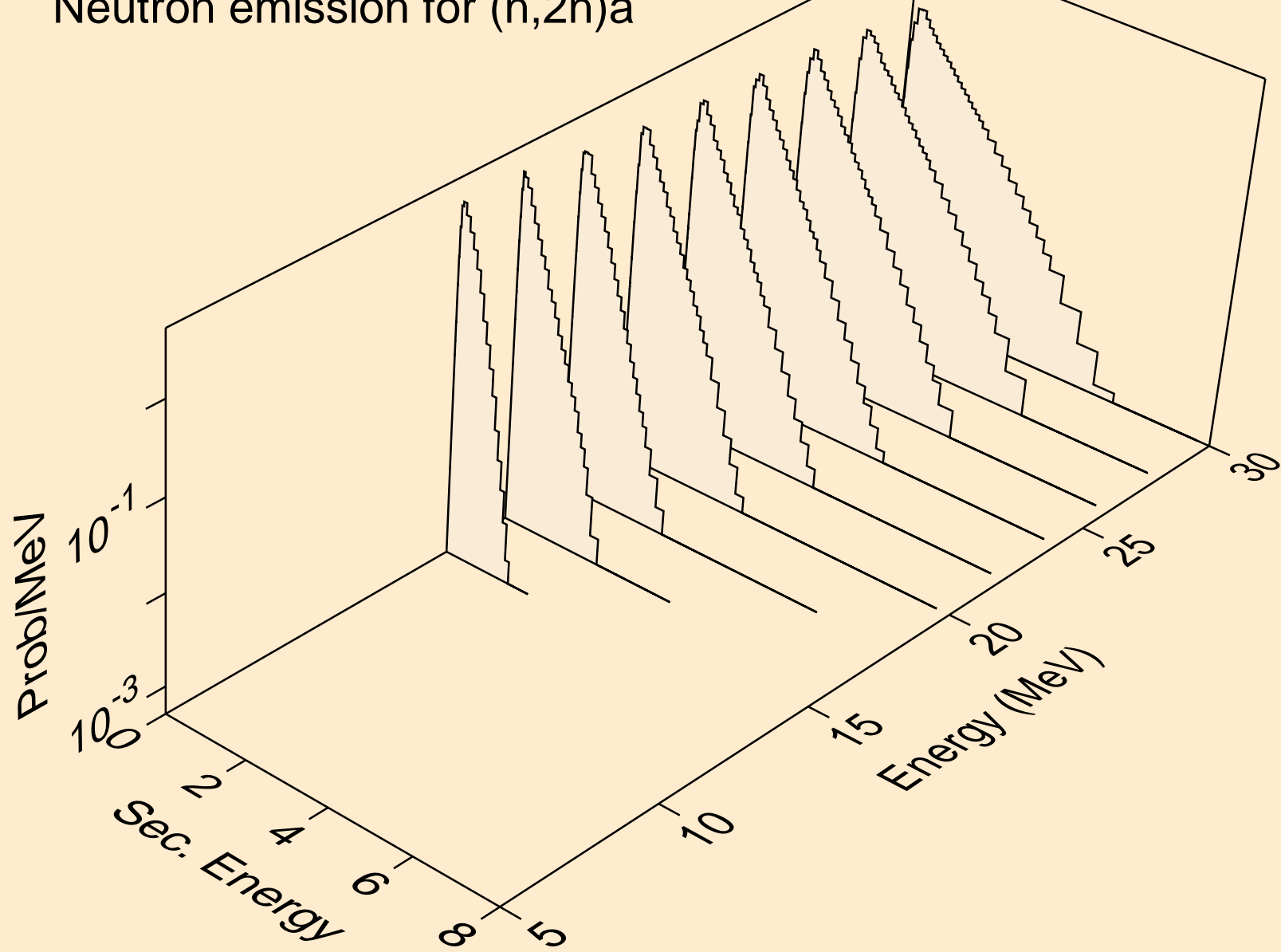
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



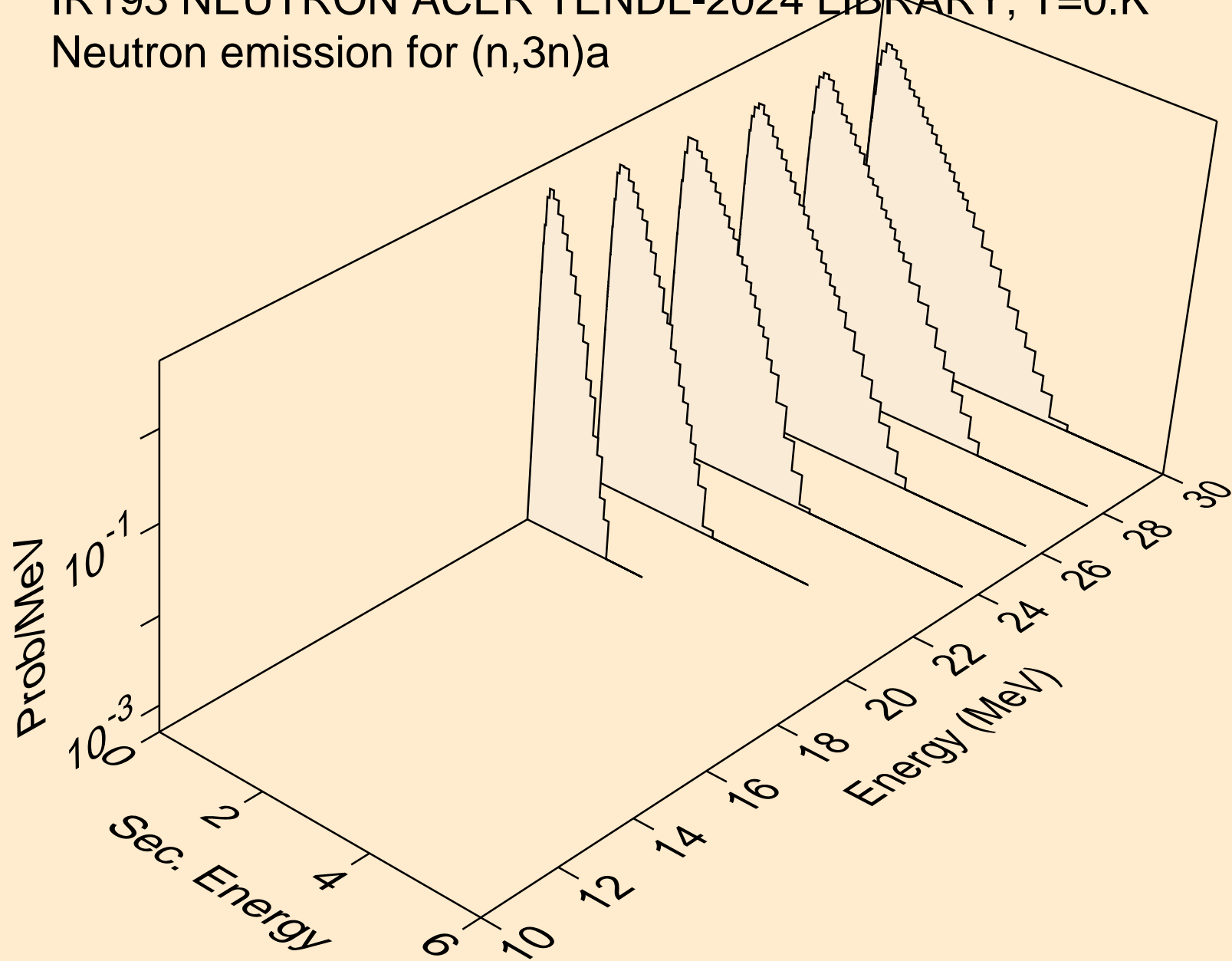
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



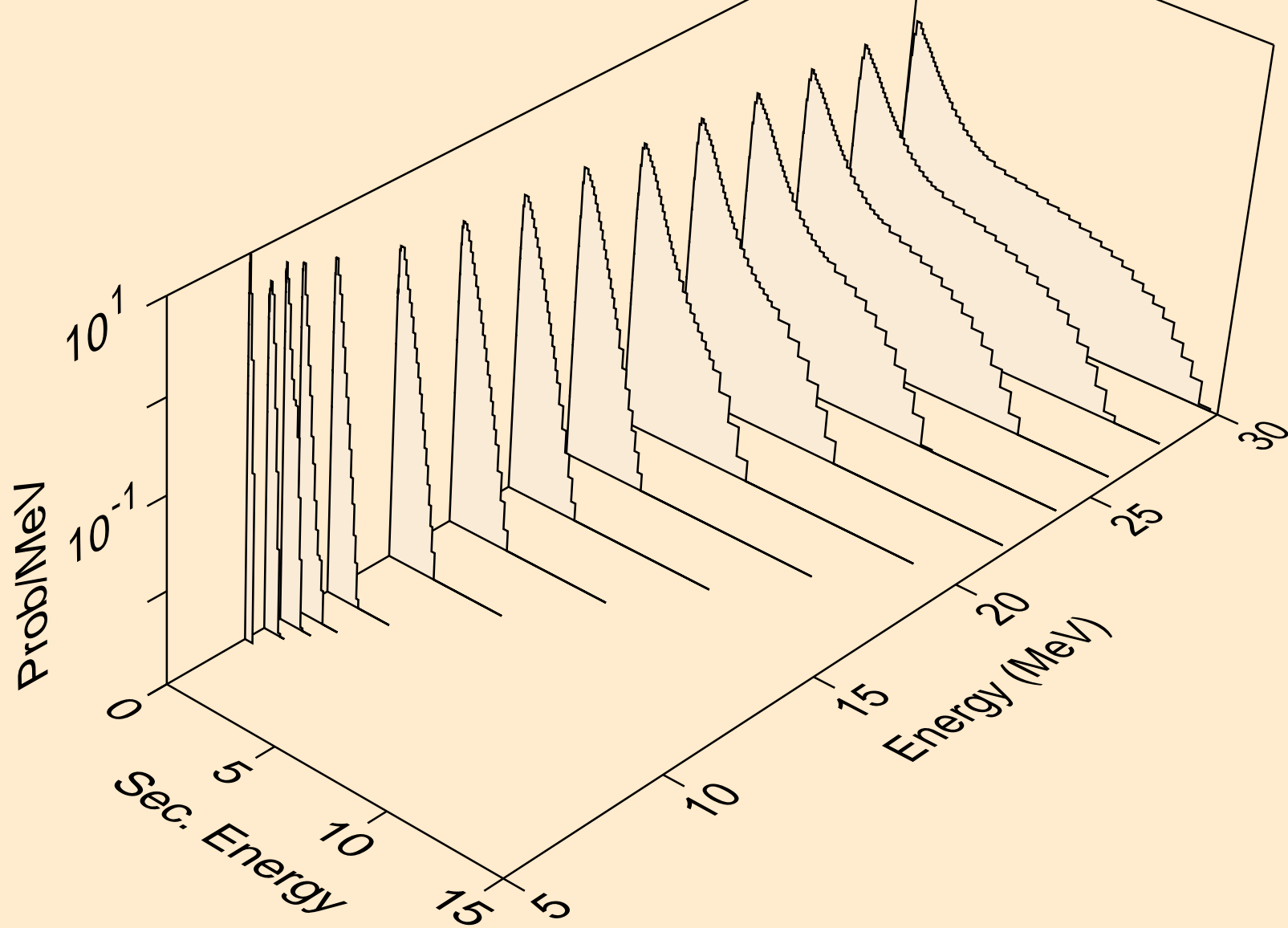
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



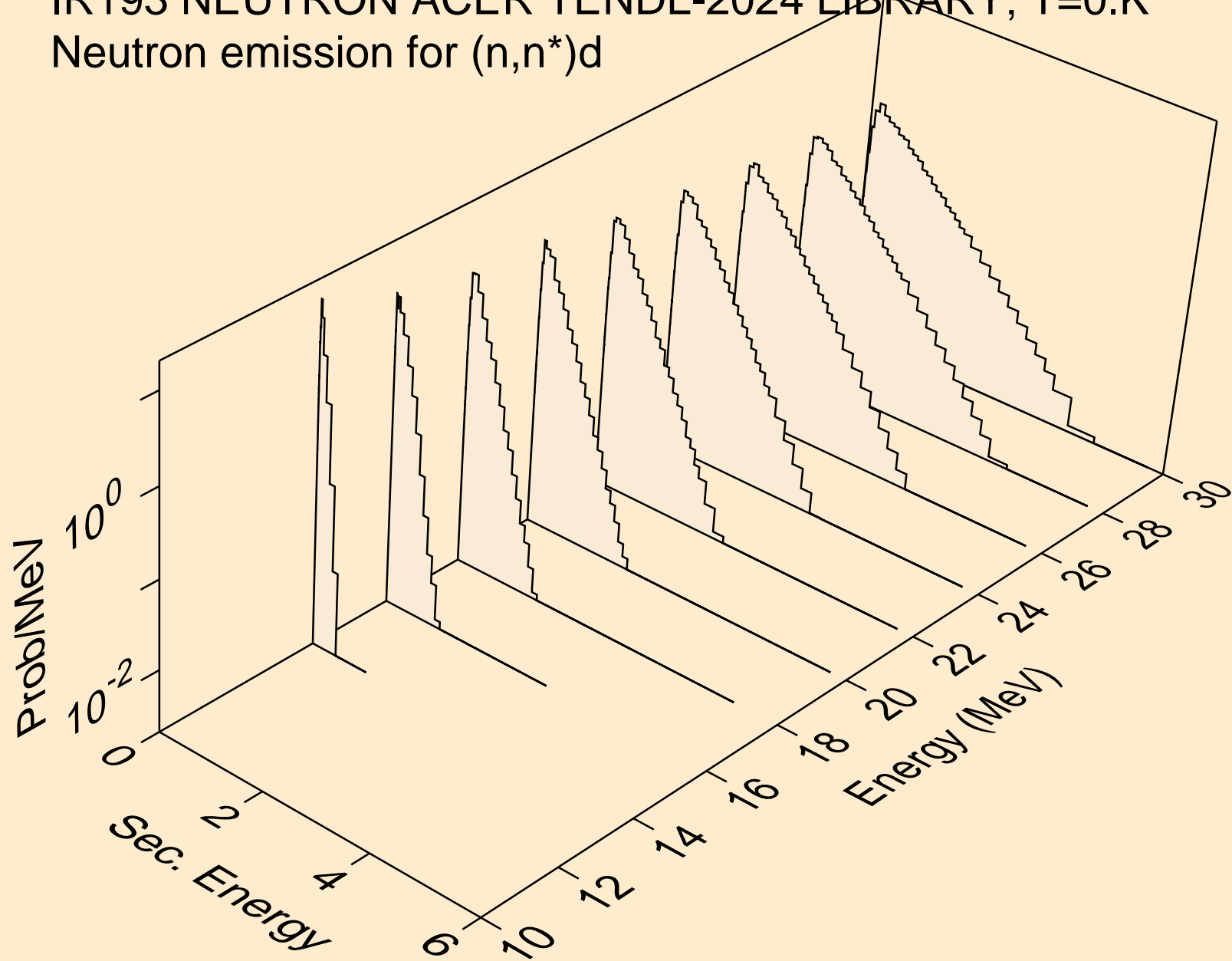
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



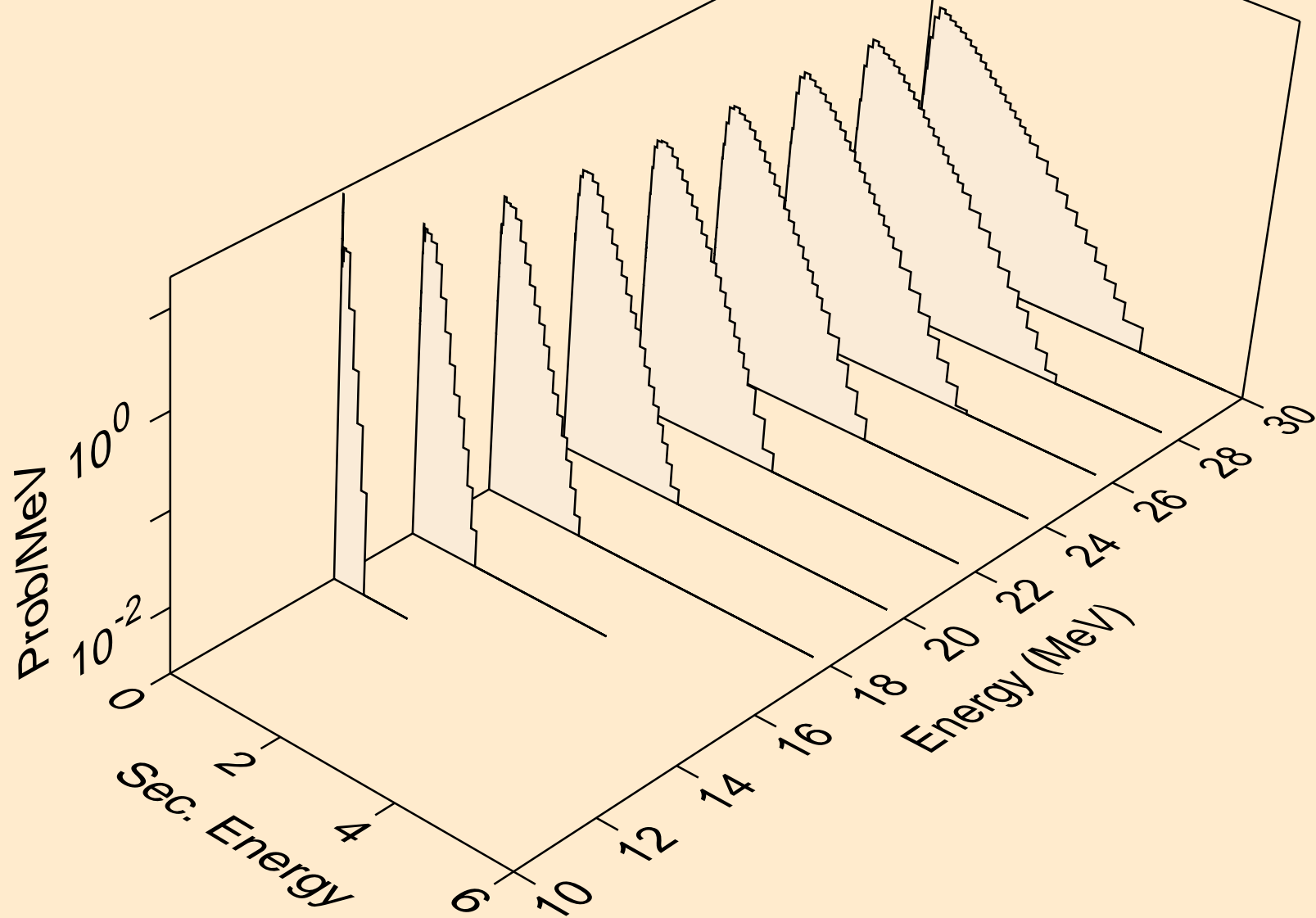
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



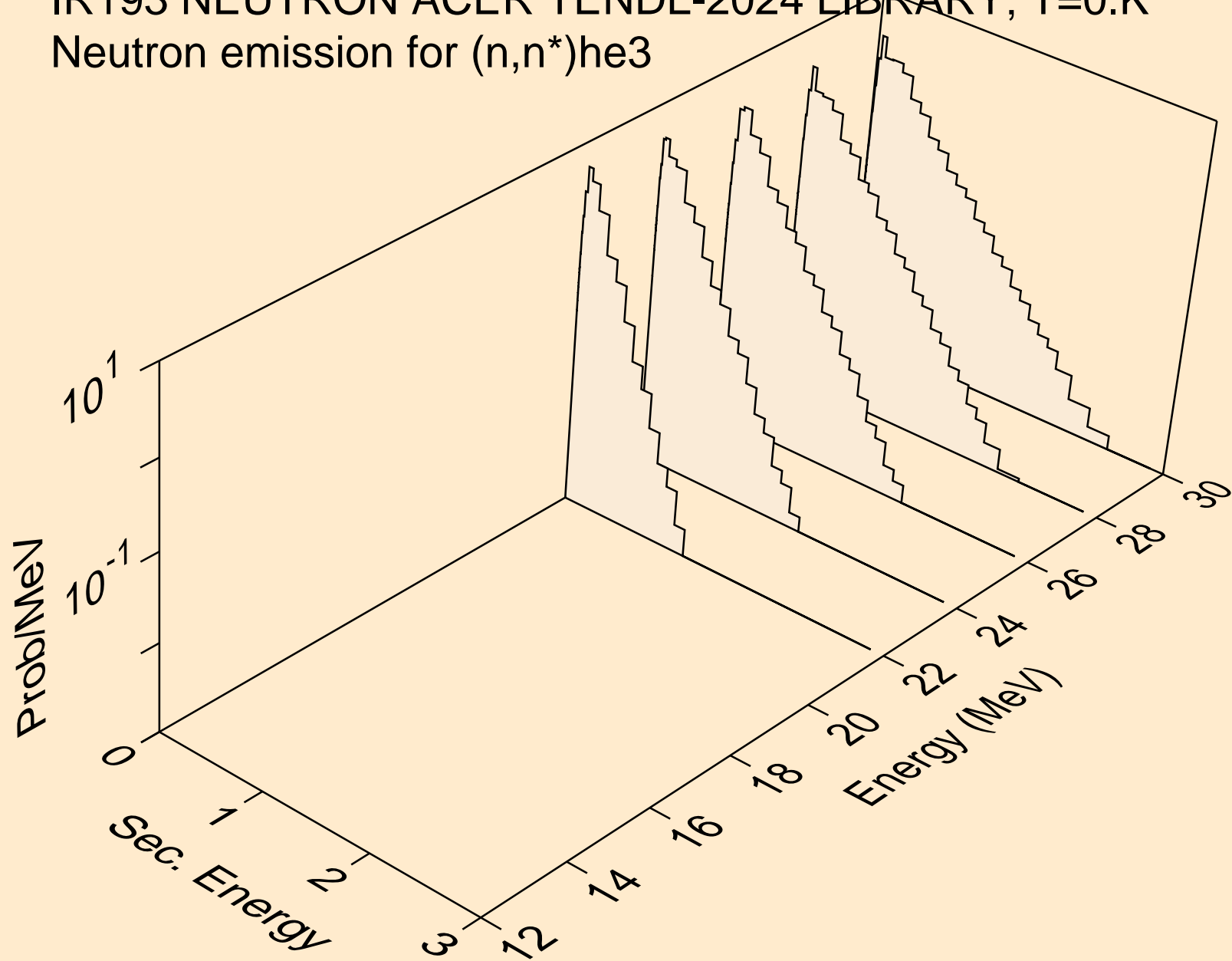
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



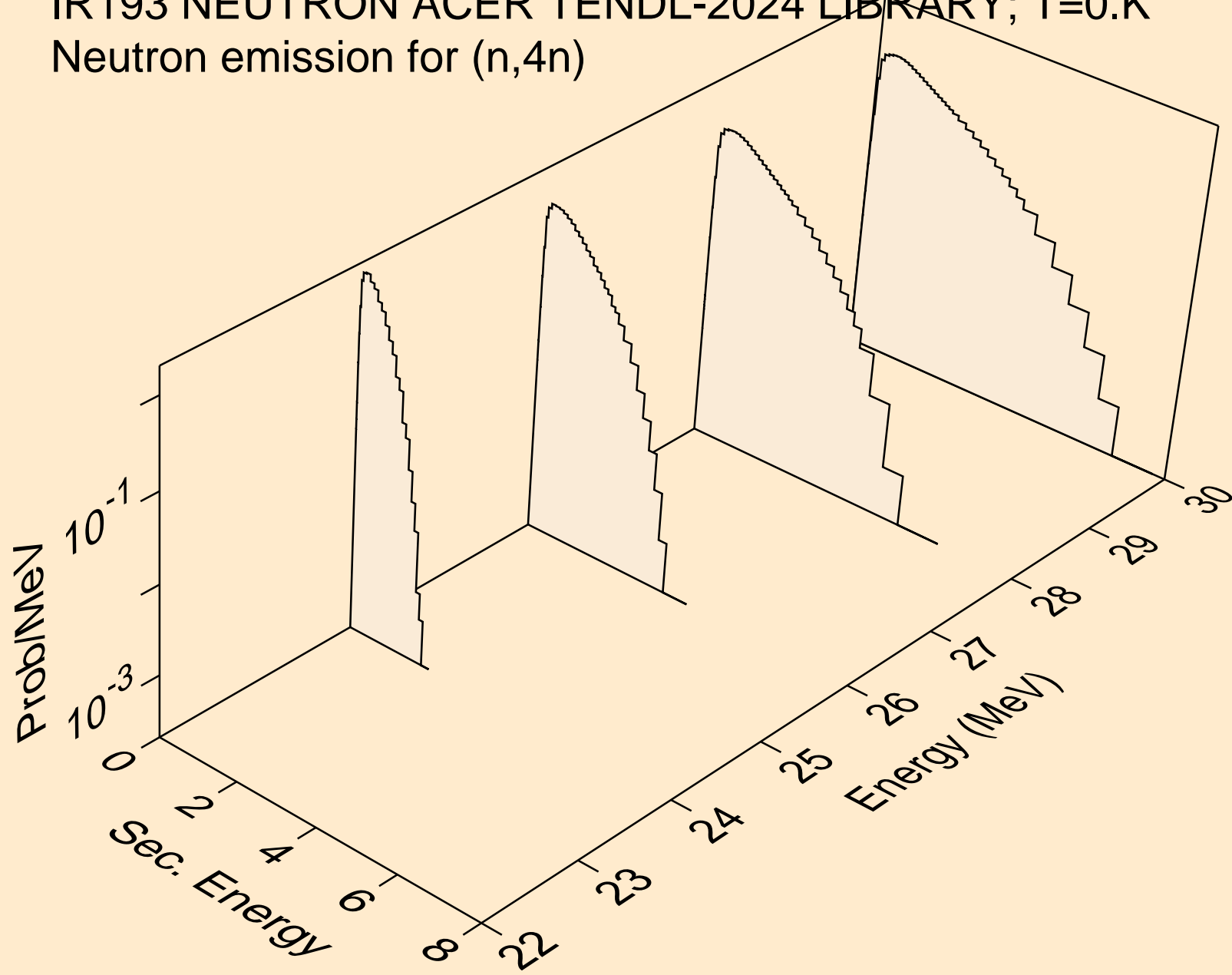
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



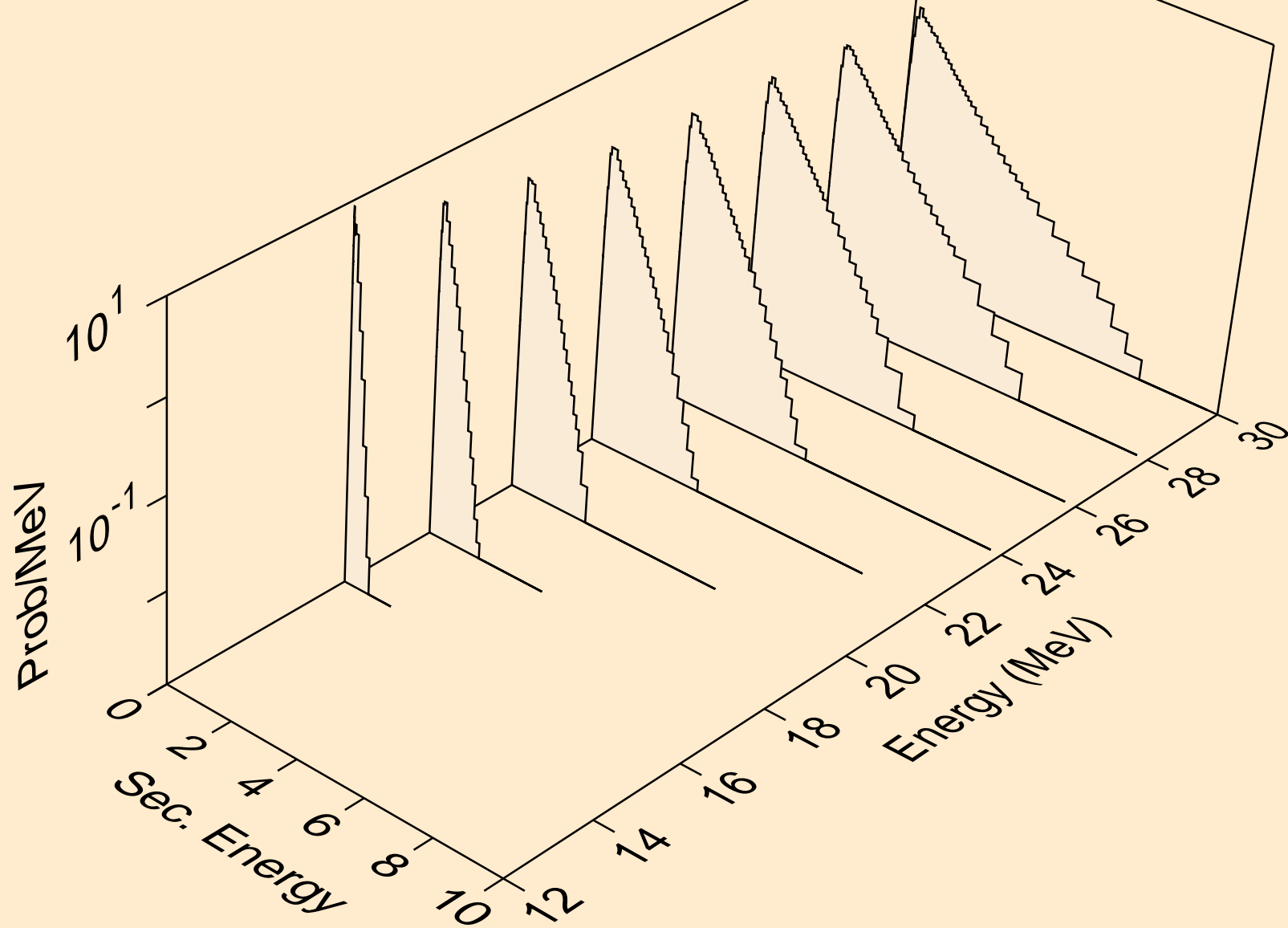
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



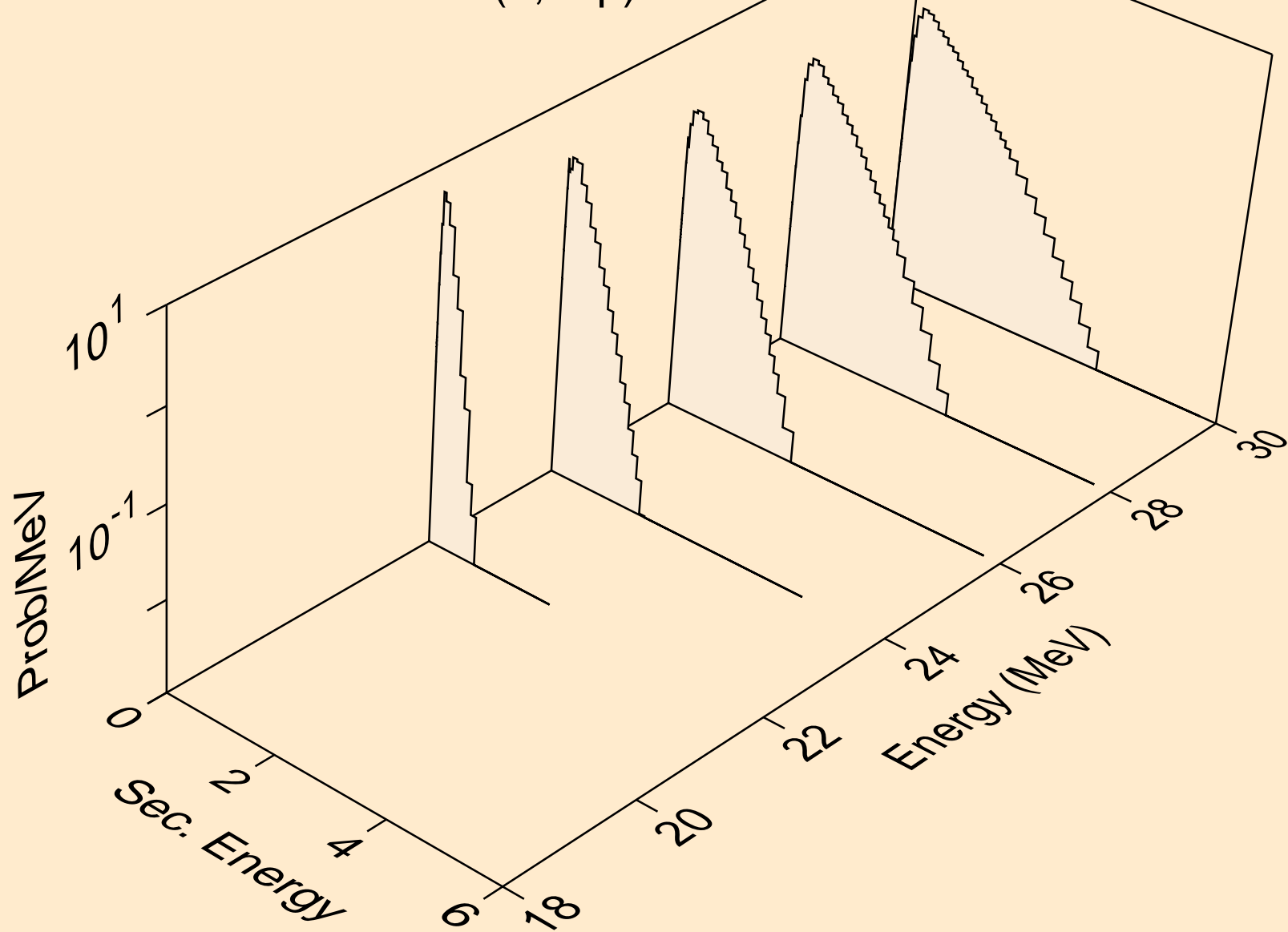
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



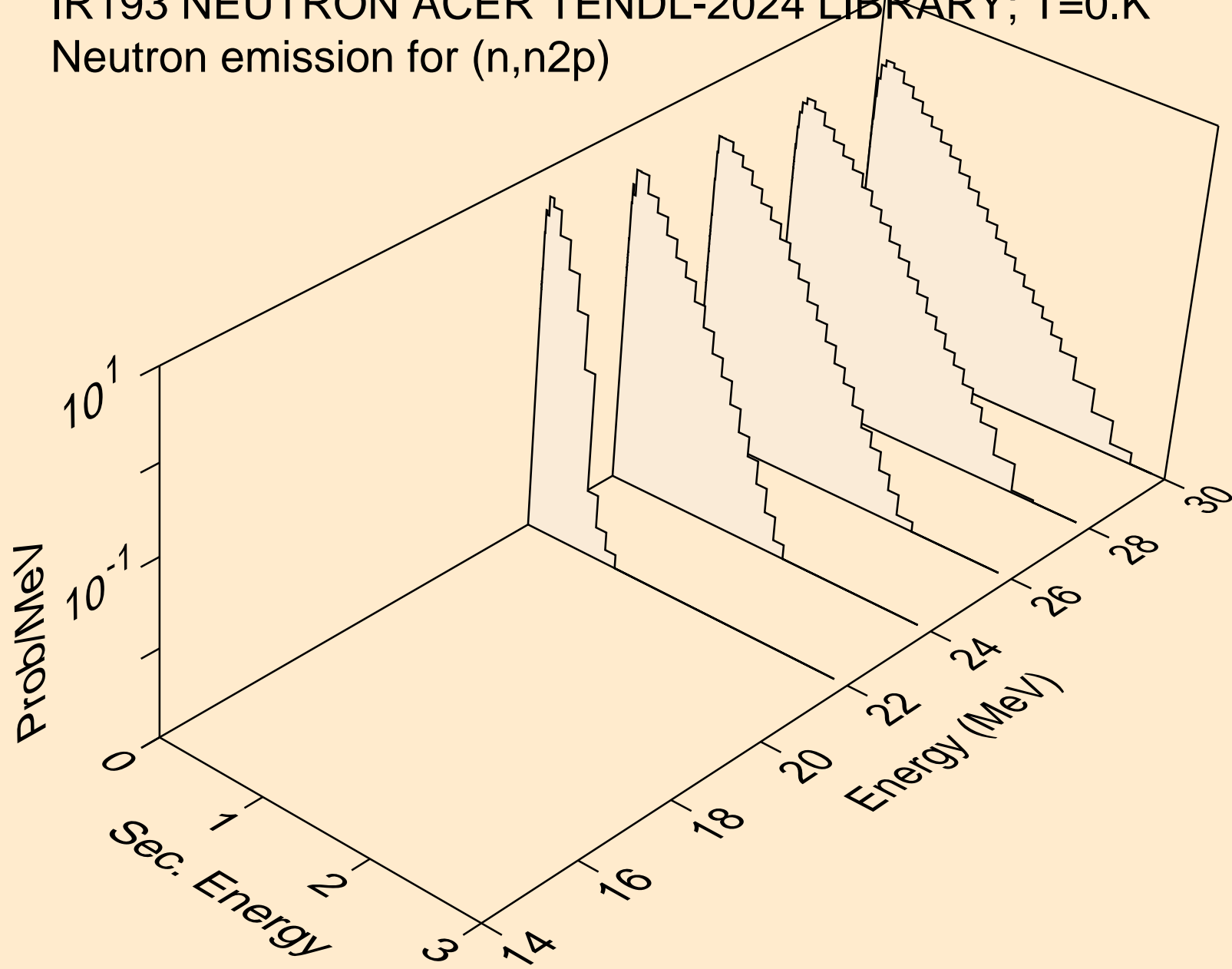
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Neutron emission for (n,2np)



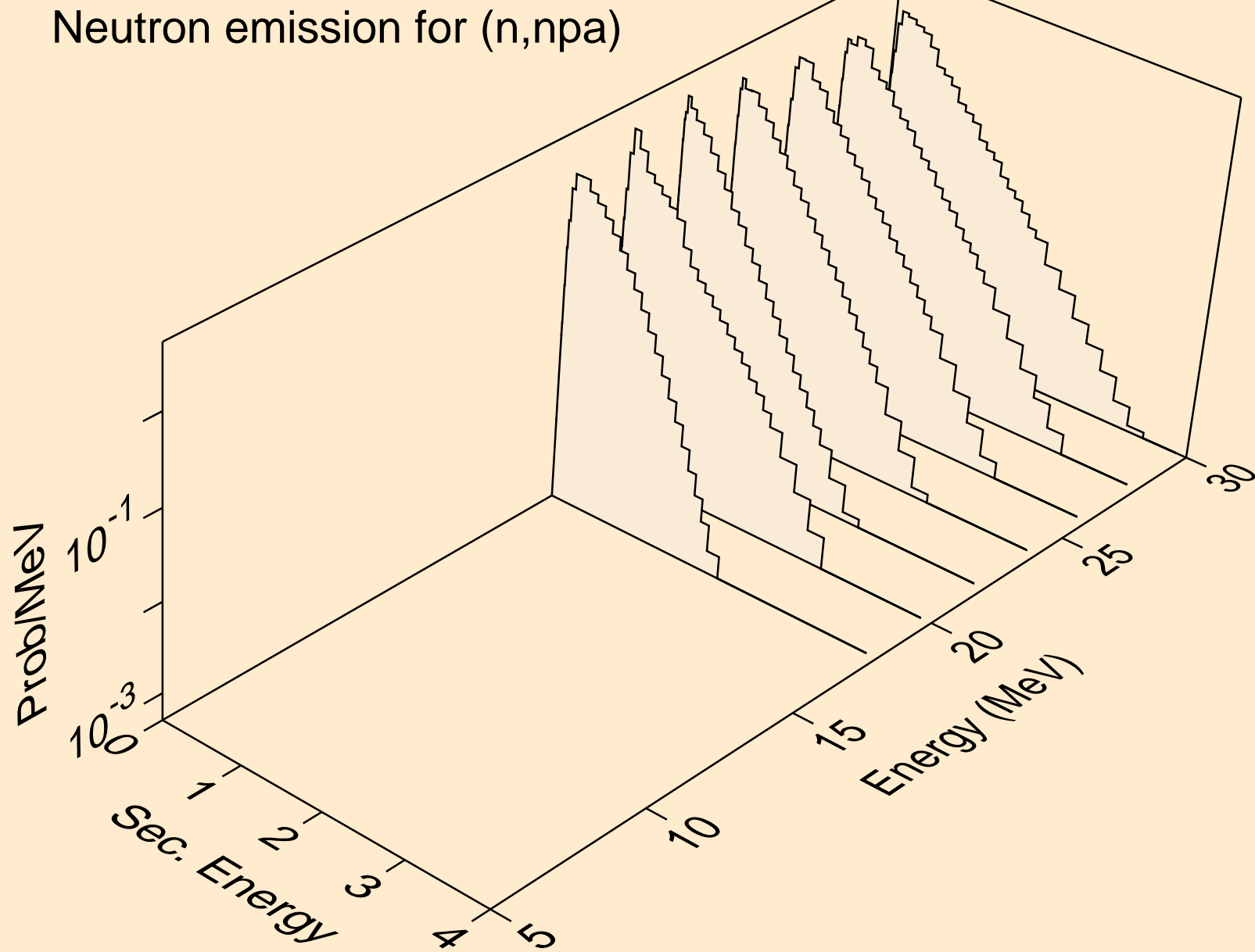
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Neutron emission for (n,3np)



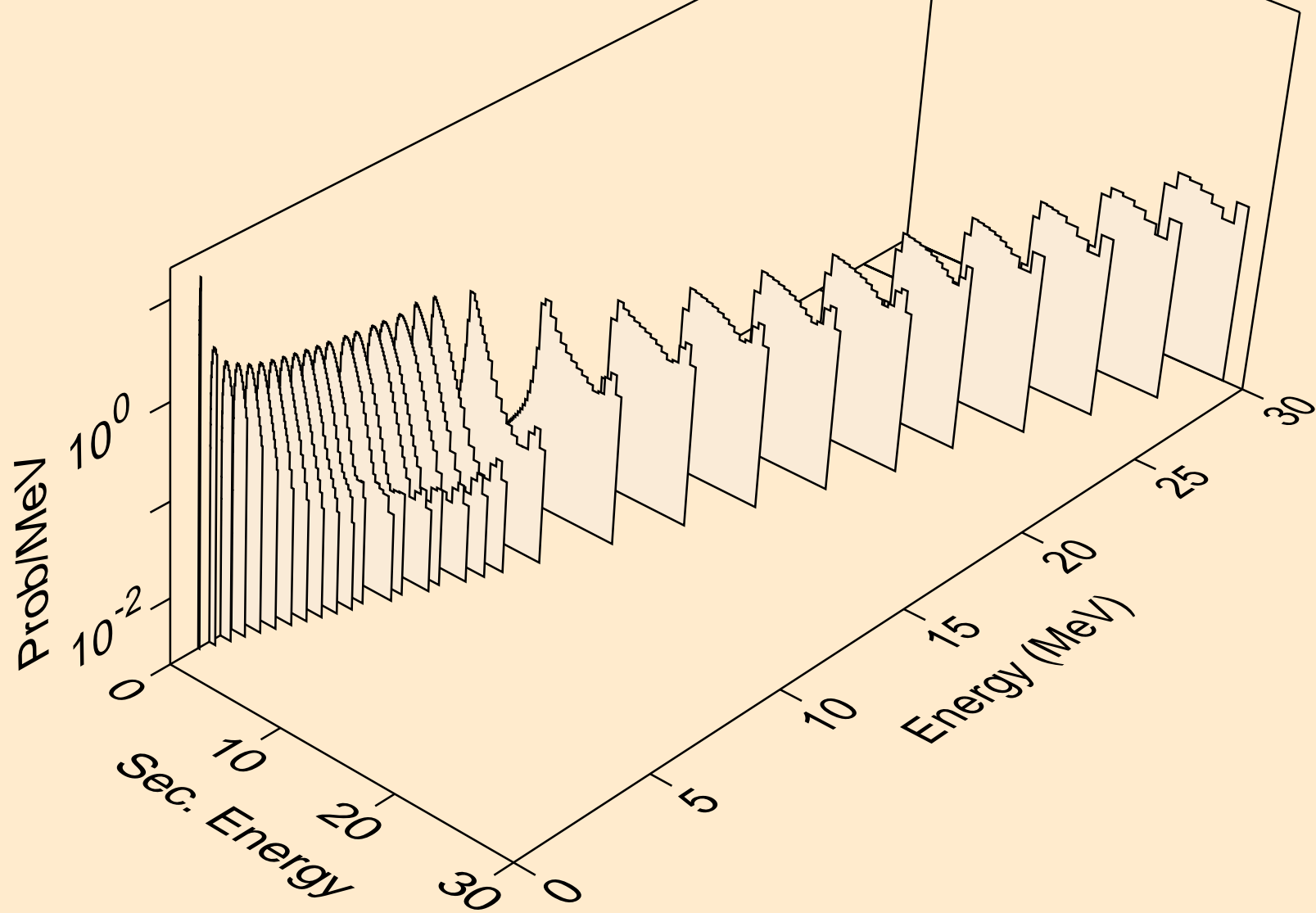
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Neutron emission for (n,n2p)



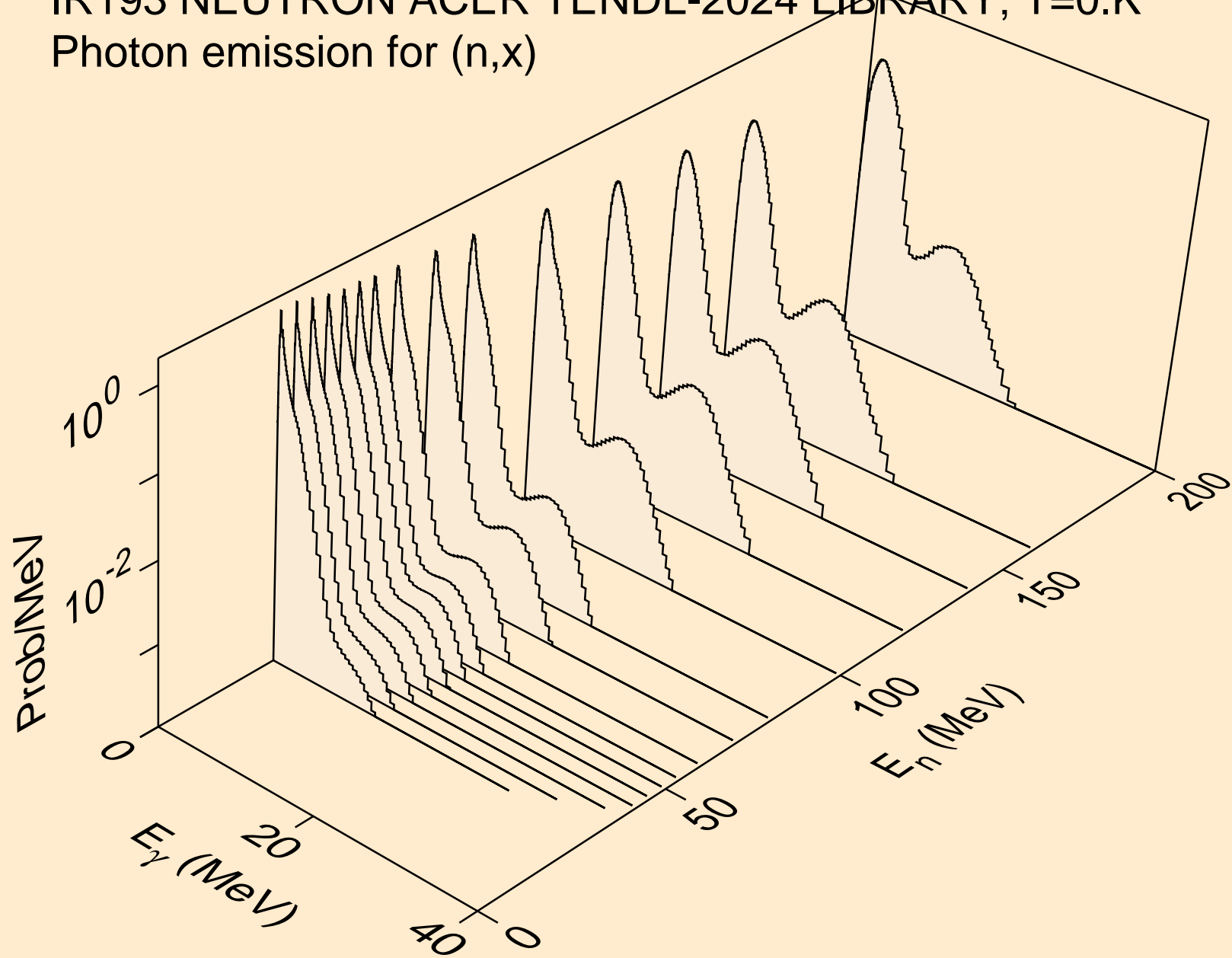
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,npa)



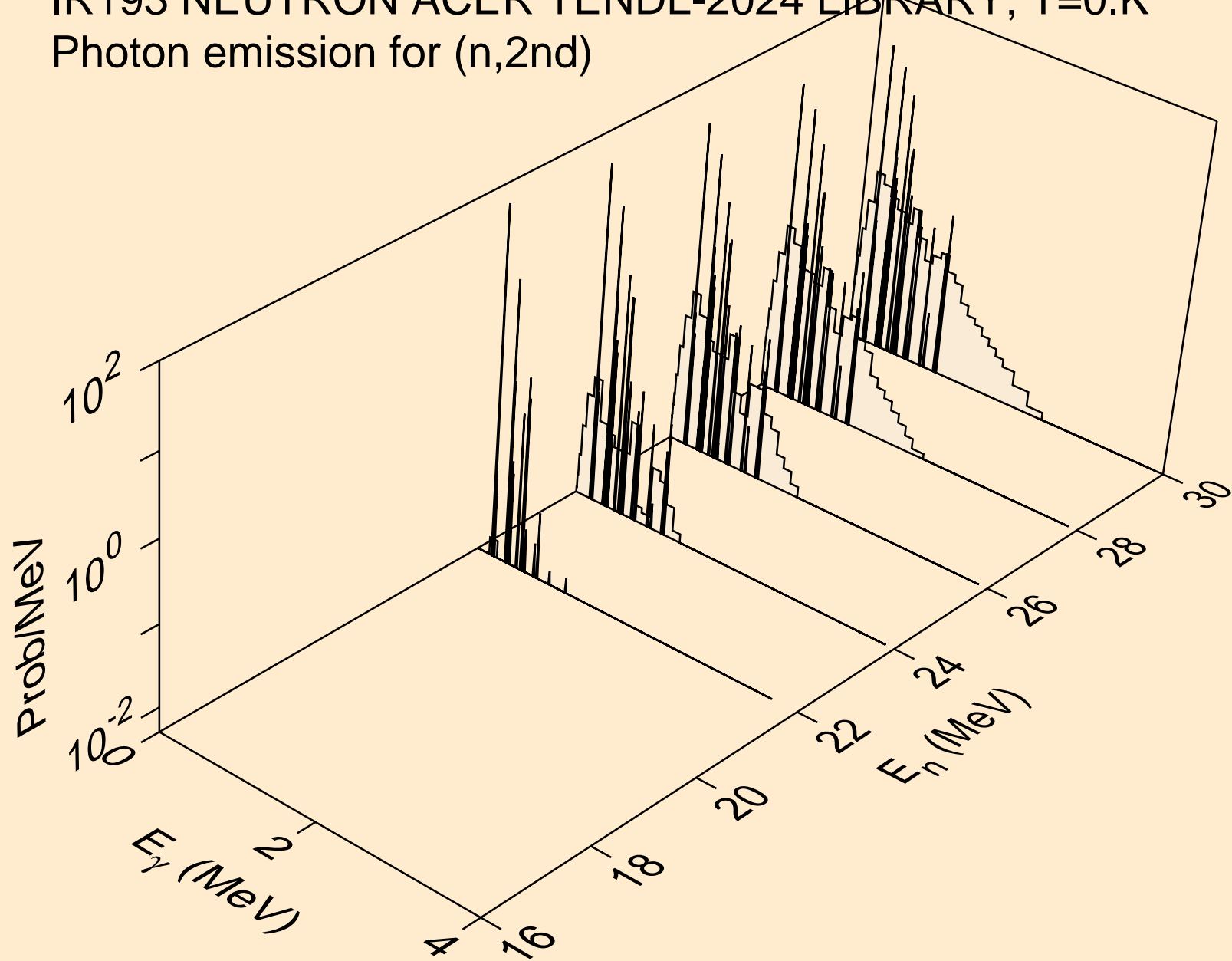
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



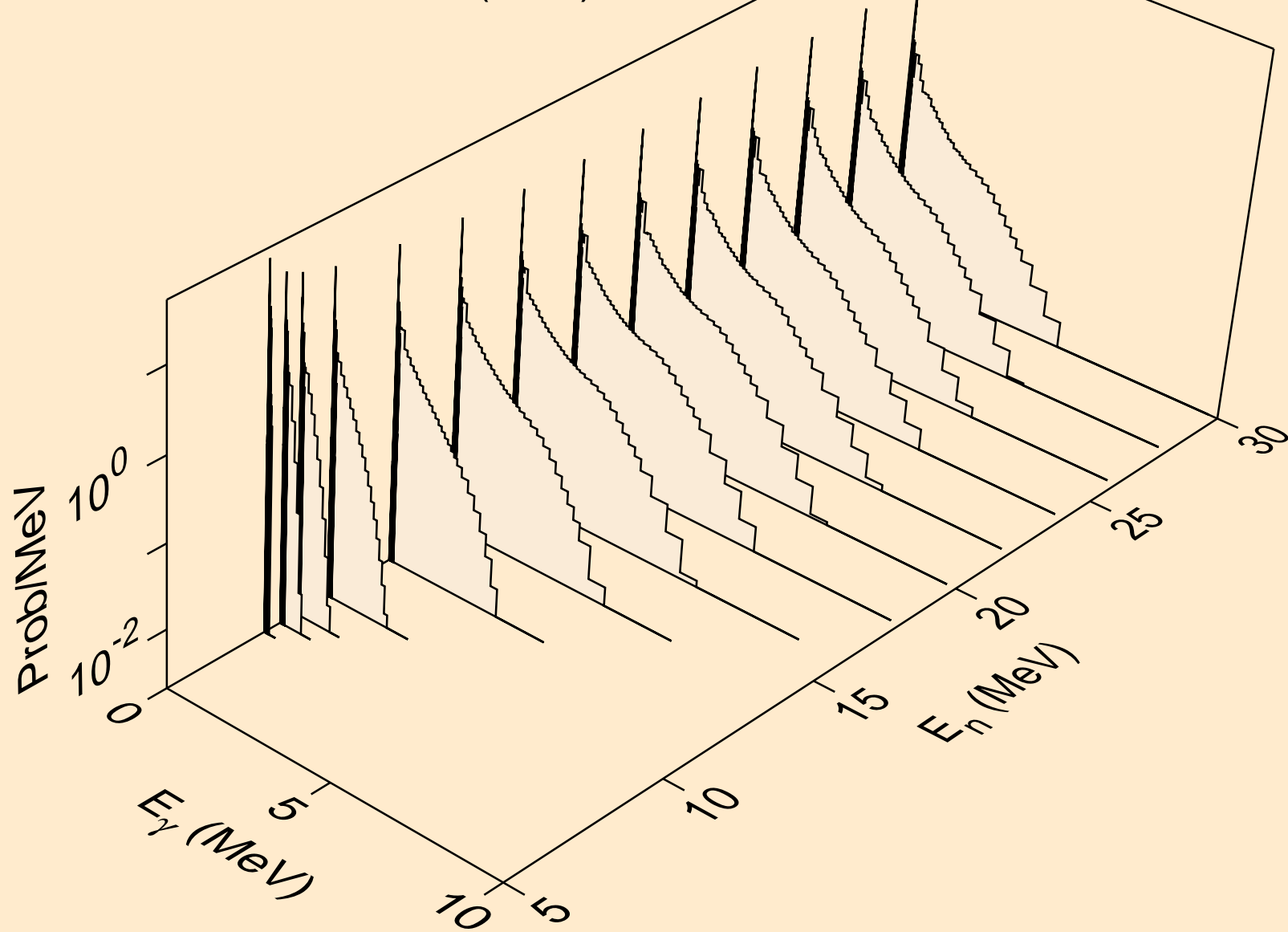
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)



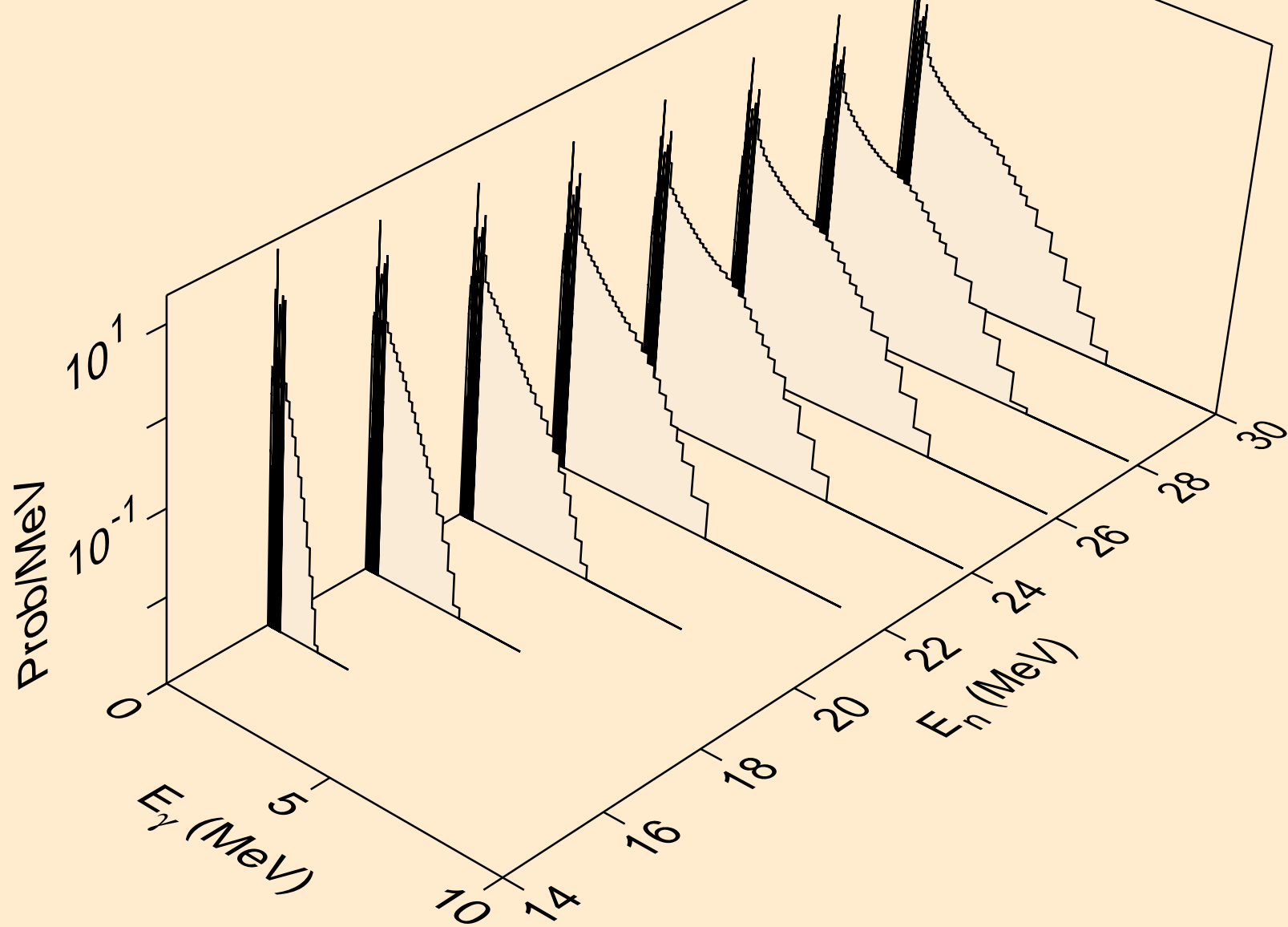
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Photon emission for (n,2nd)



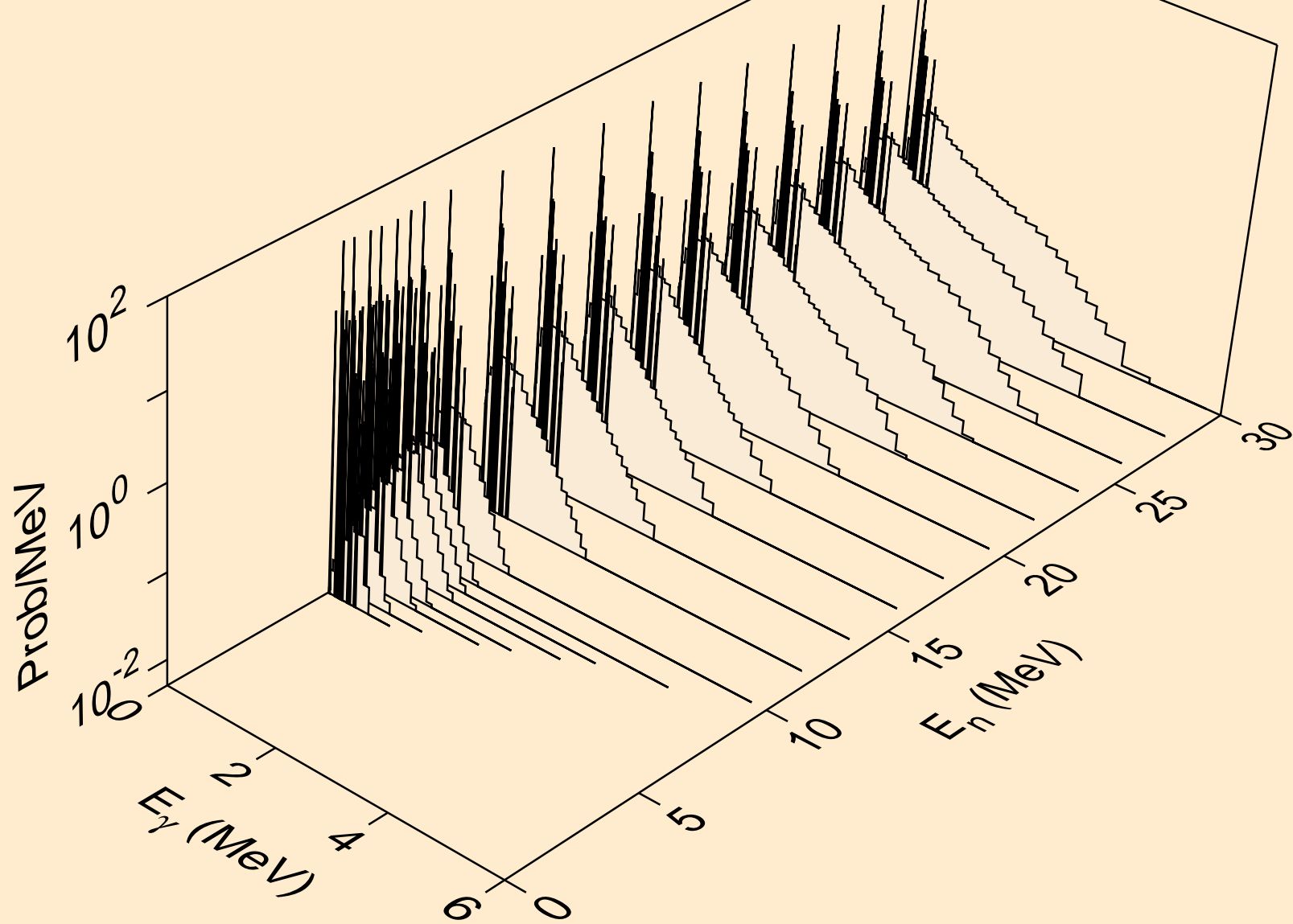
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Photon emission for (n,2n)



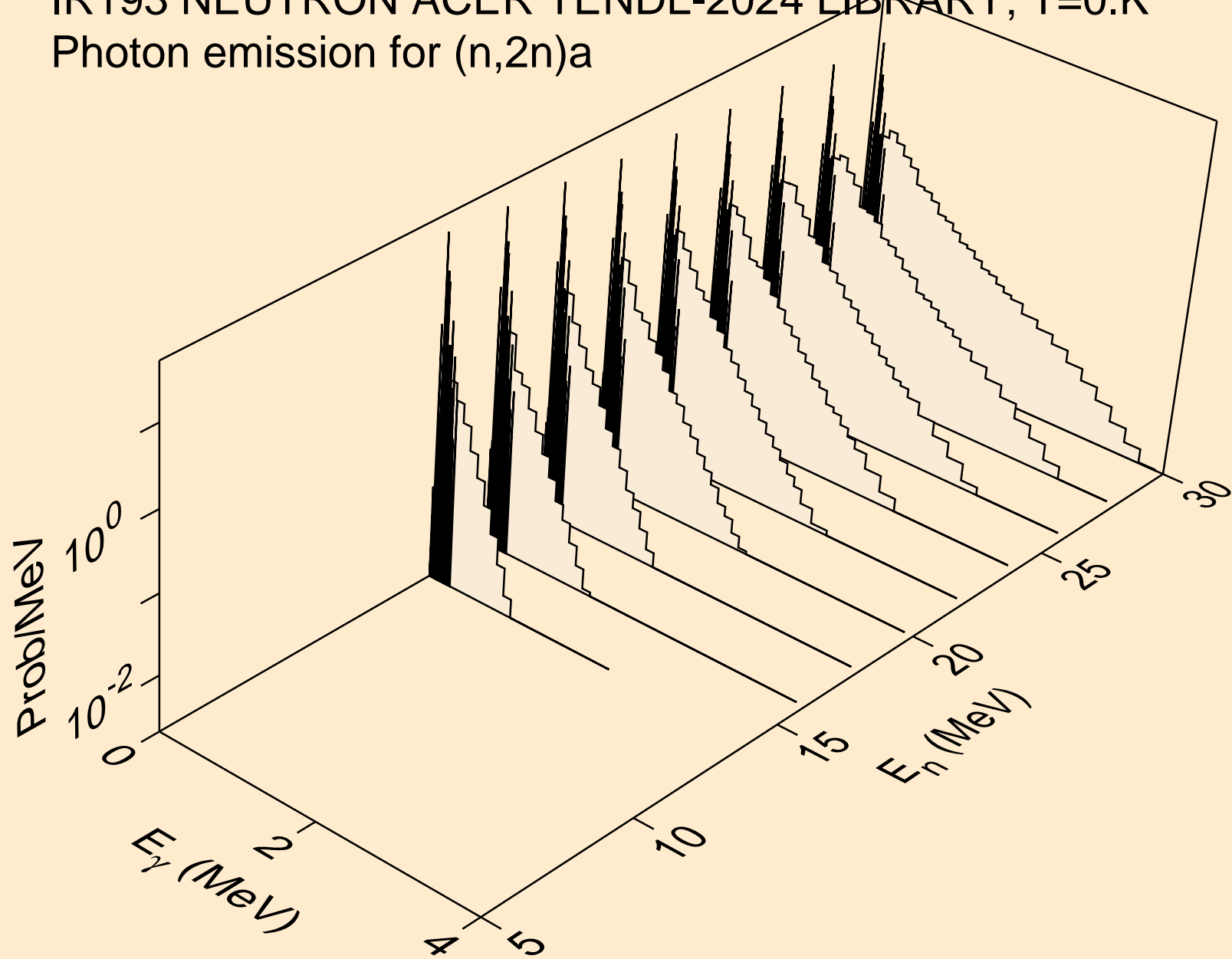
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Photon emission for (n,3n)



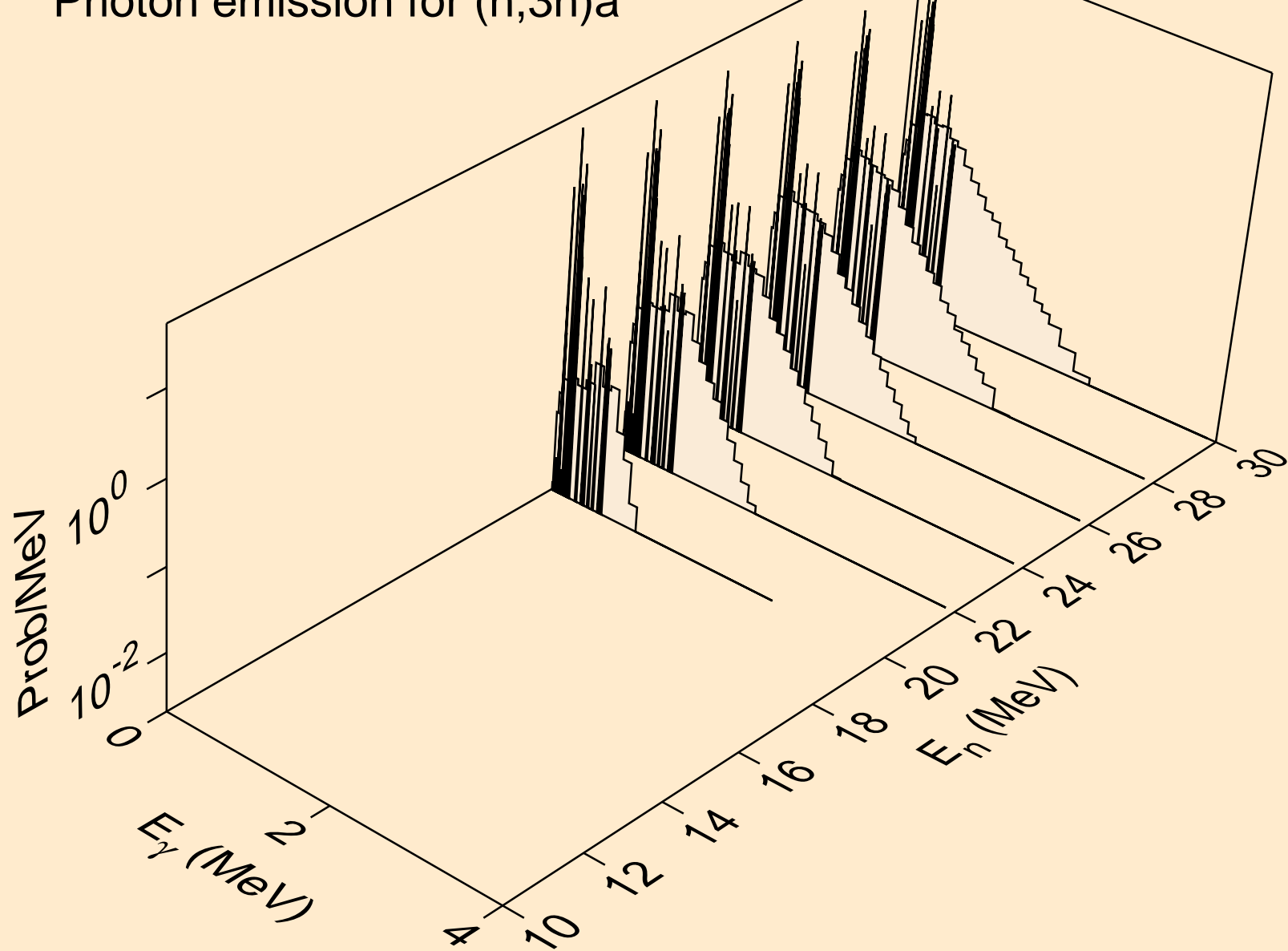
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Photon emission for (n,n\*)a



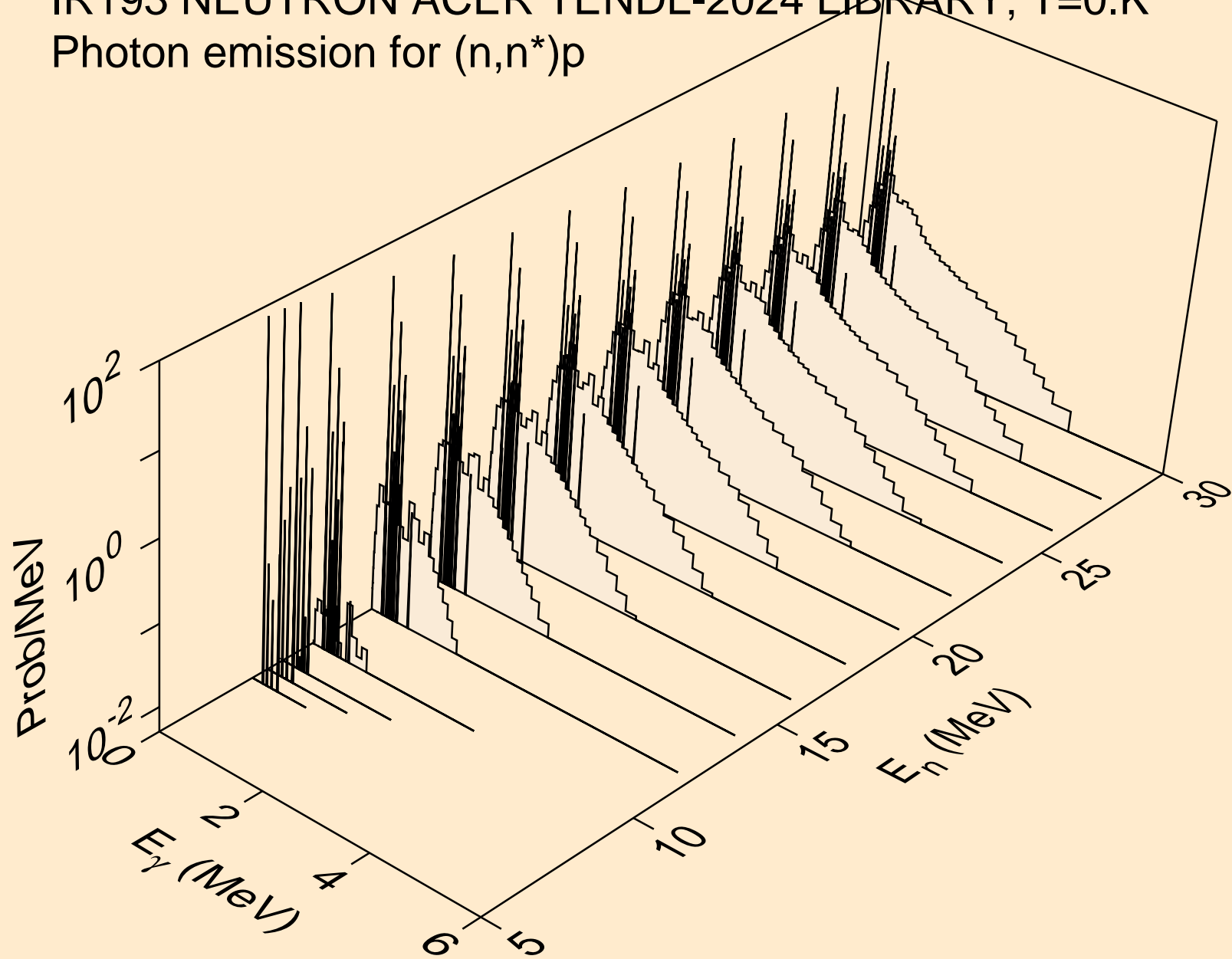
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Photon emission for (n,2n)a



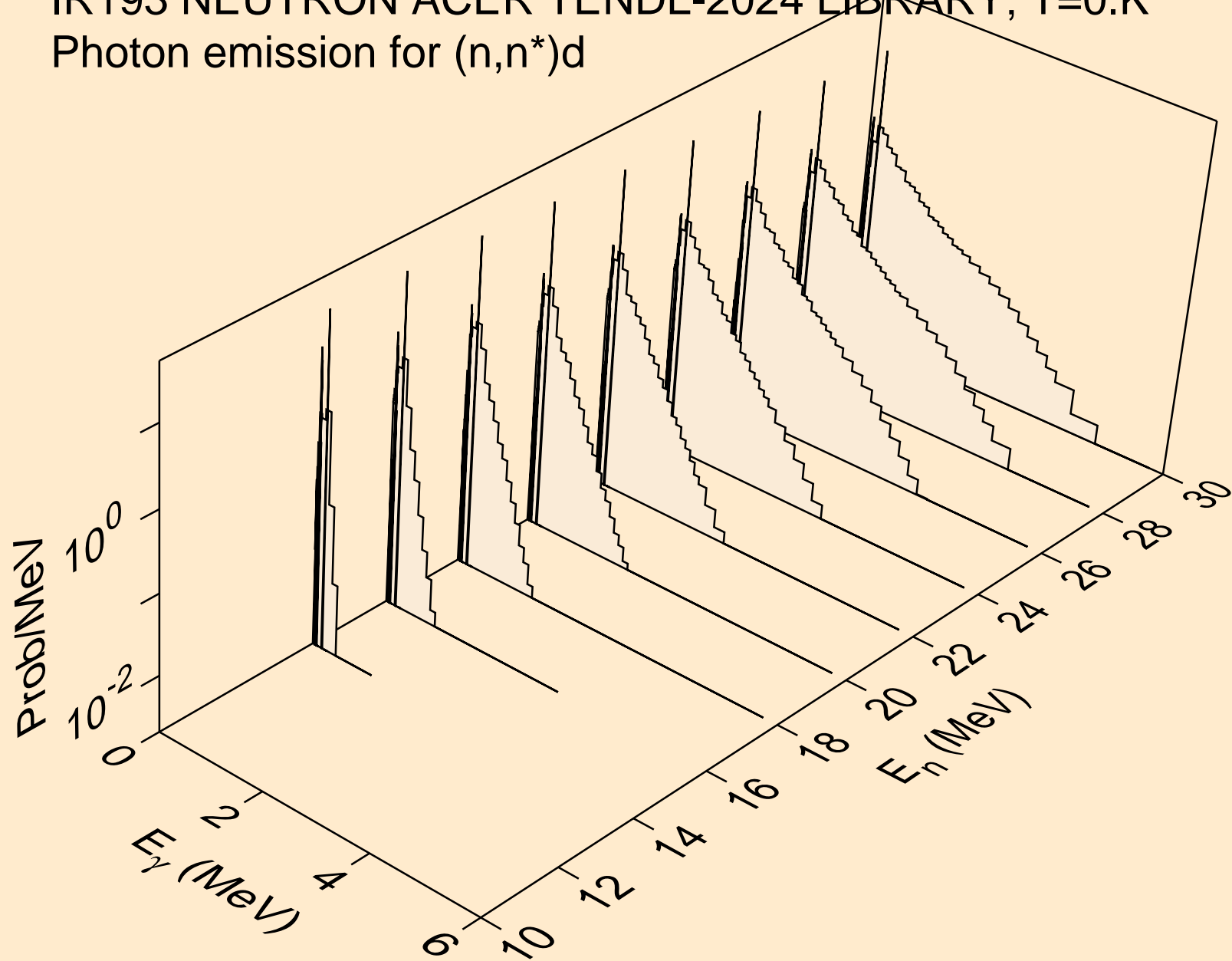
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Photon emission for (n,3n)a



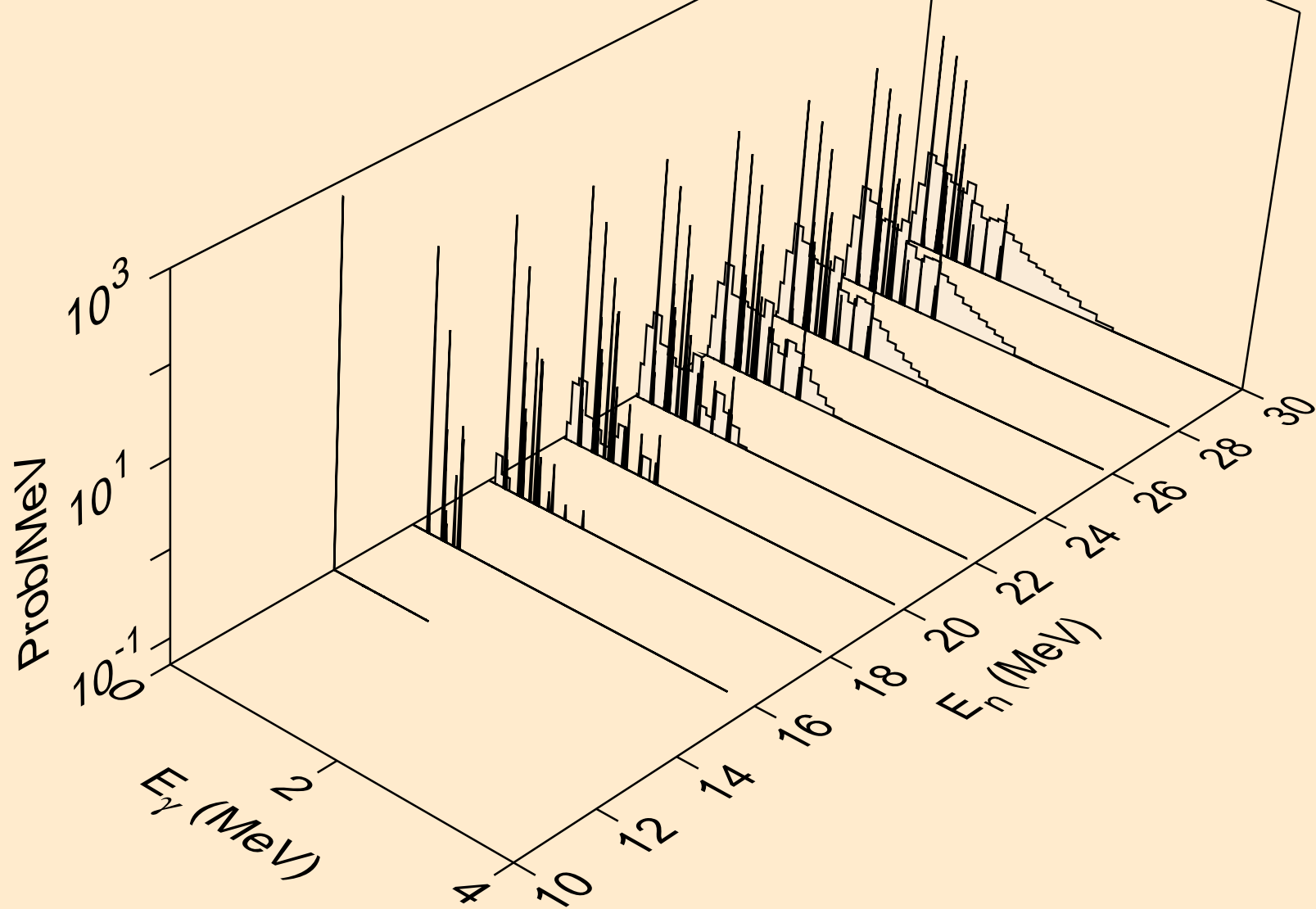
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Photon emission for (n,n\*)p



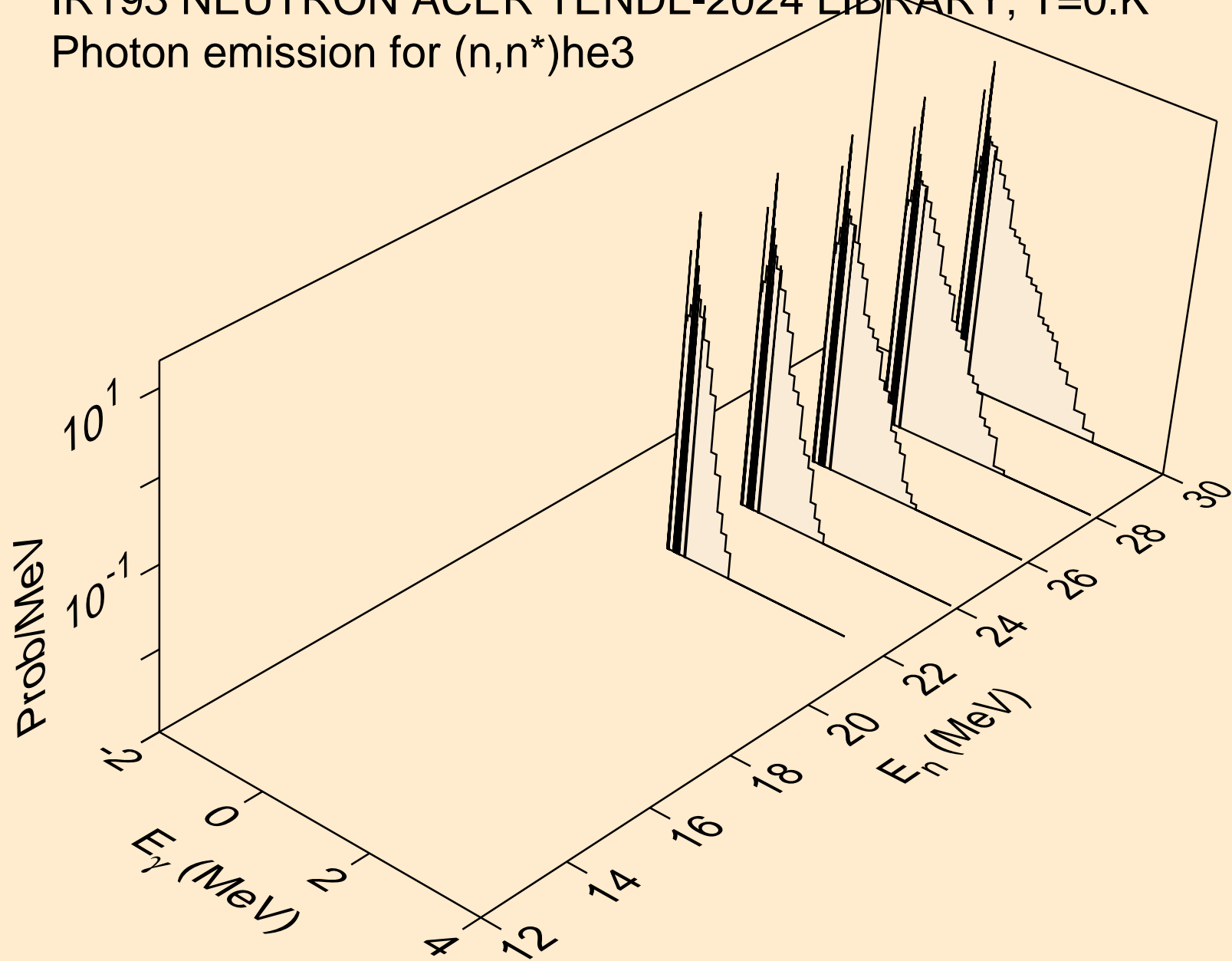
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



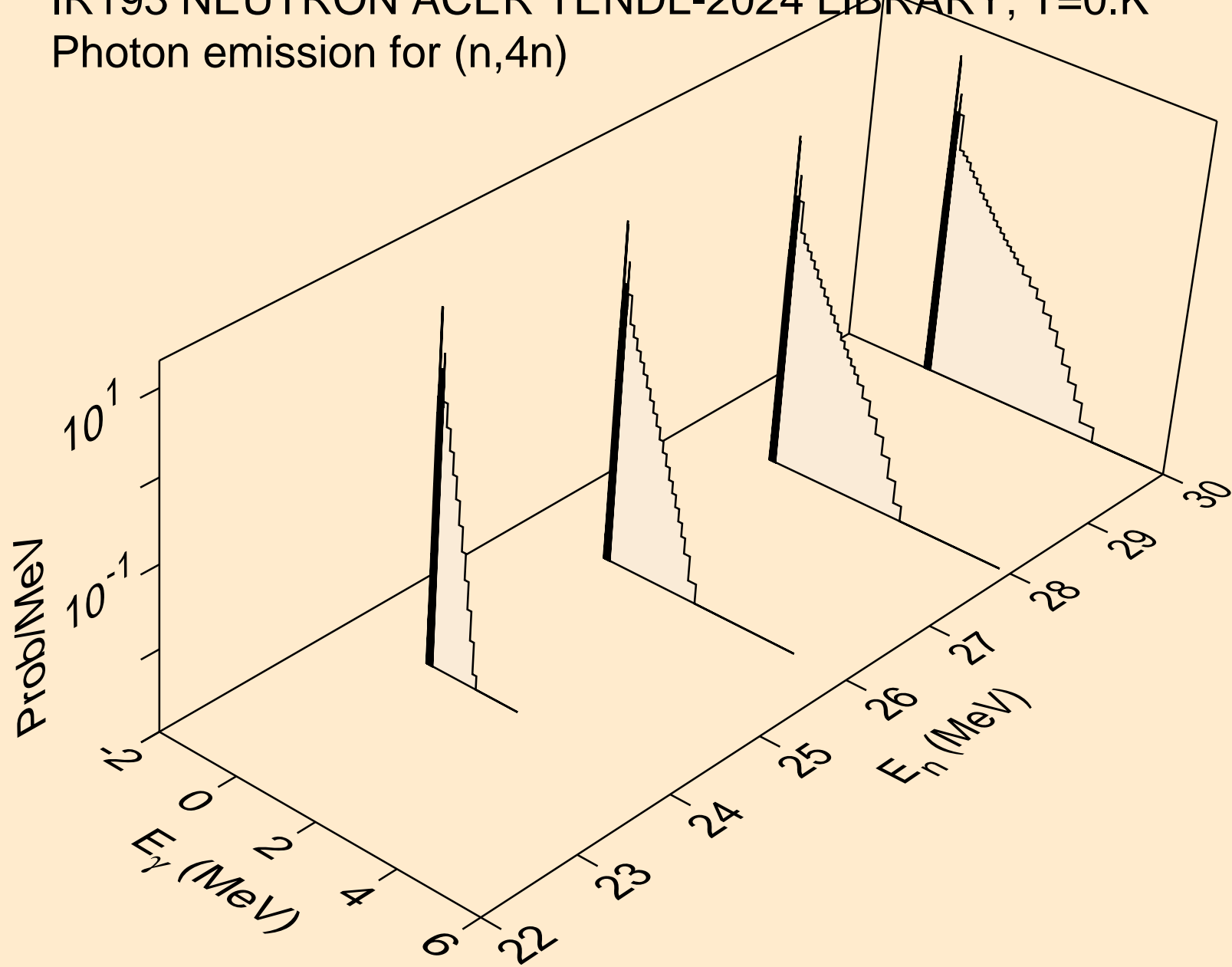
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Photon emission for (n,n\*)t



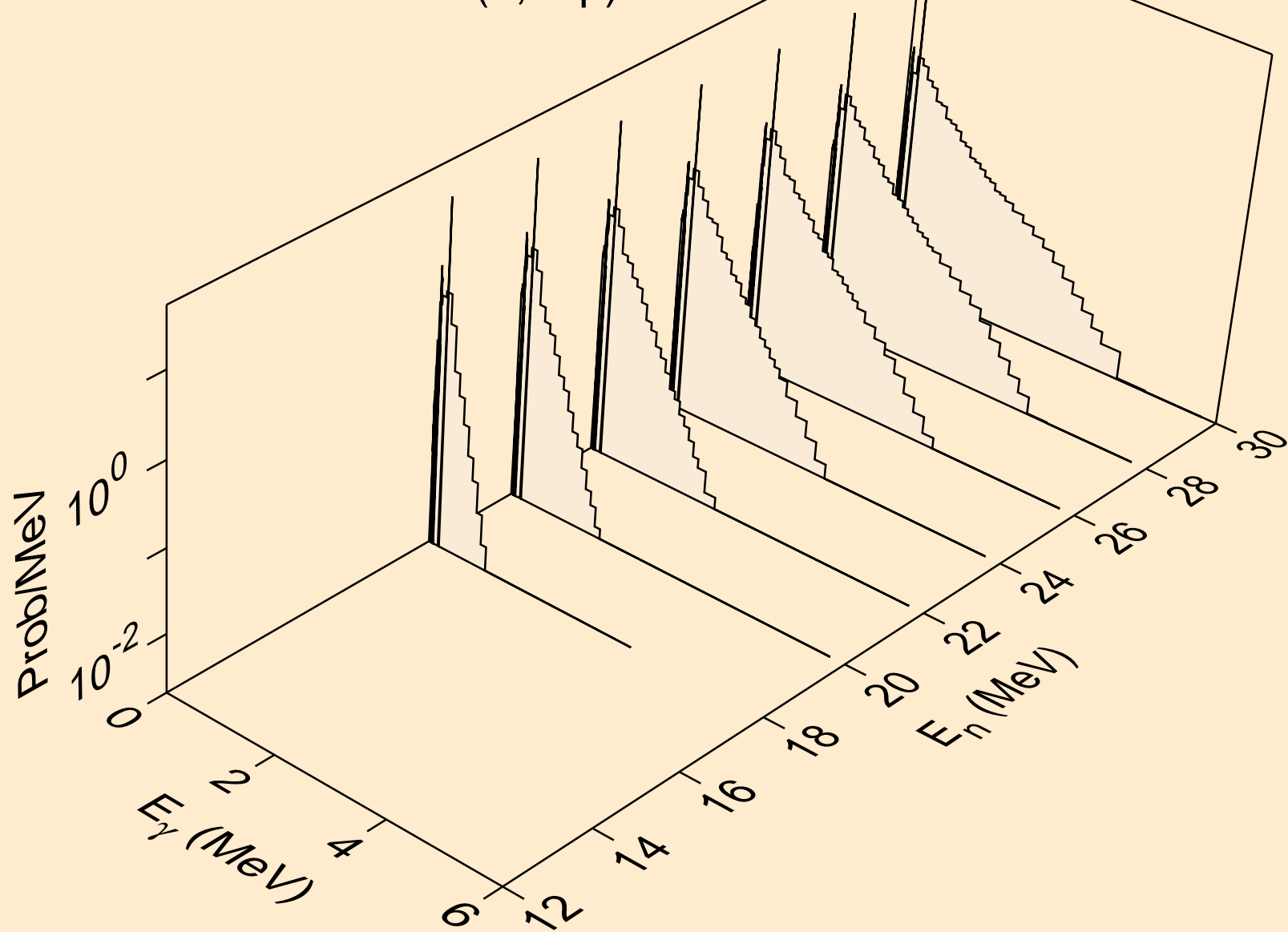
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



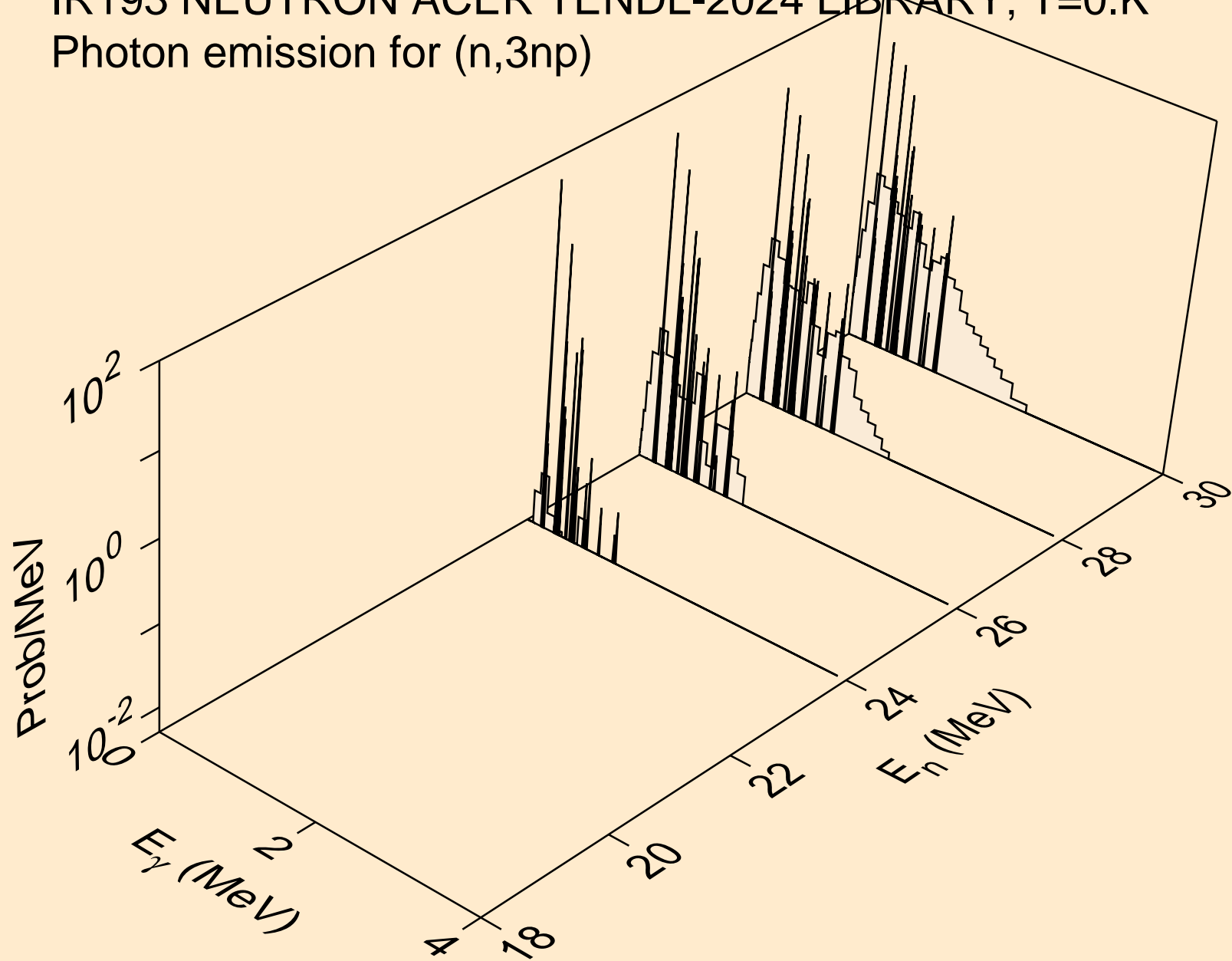
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)



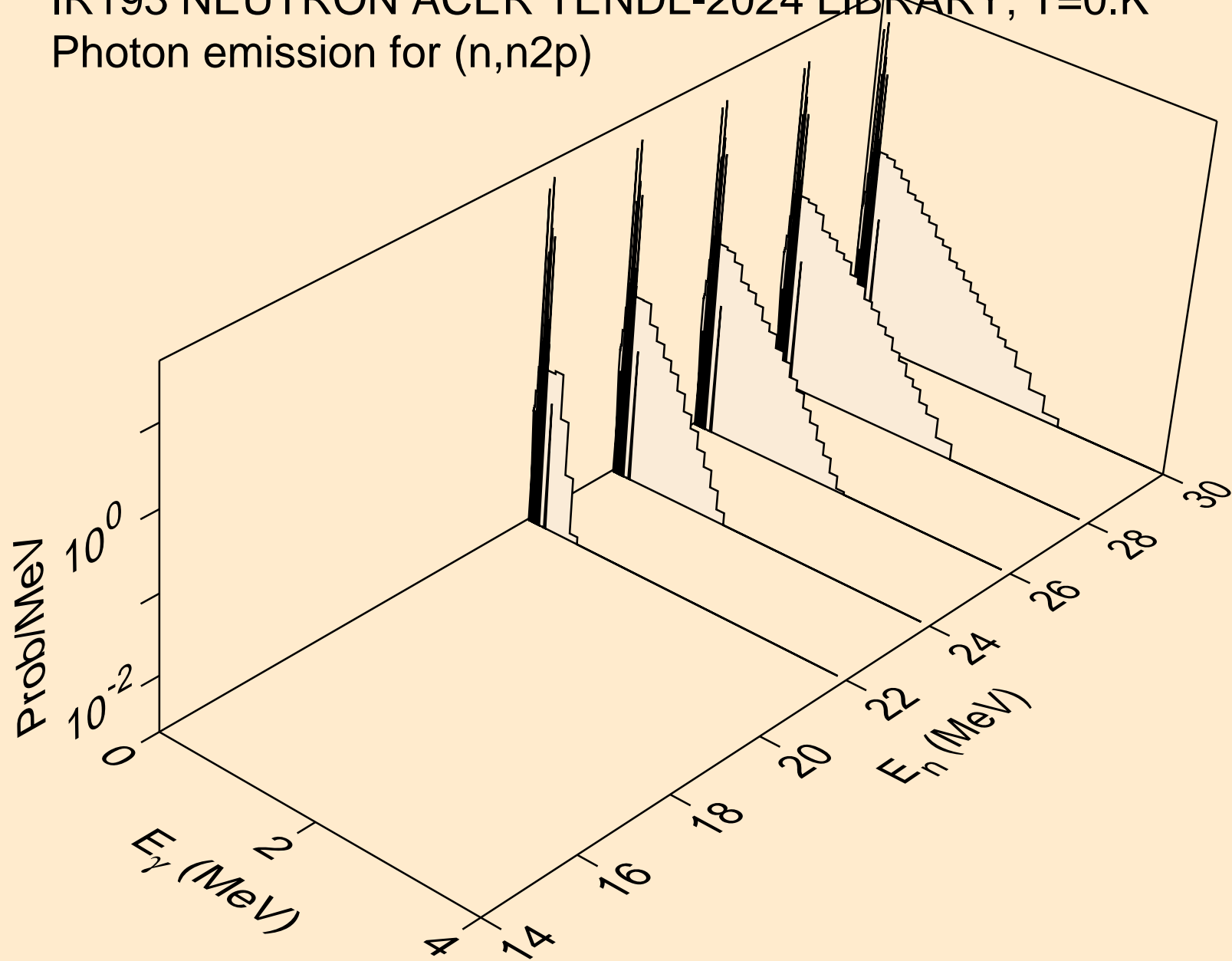
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Photon emission for (n,2np)



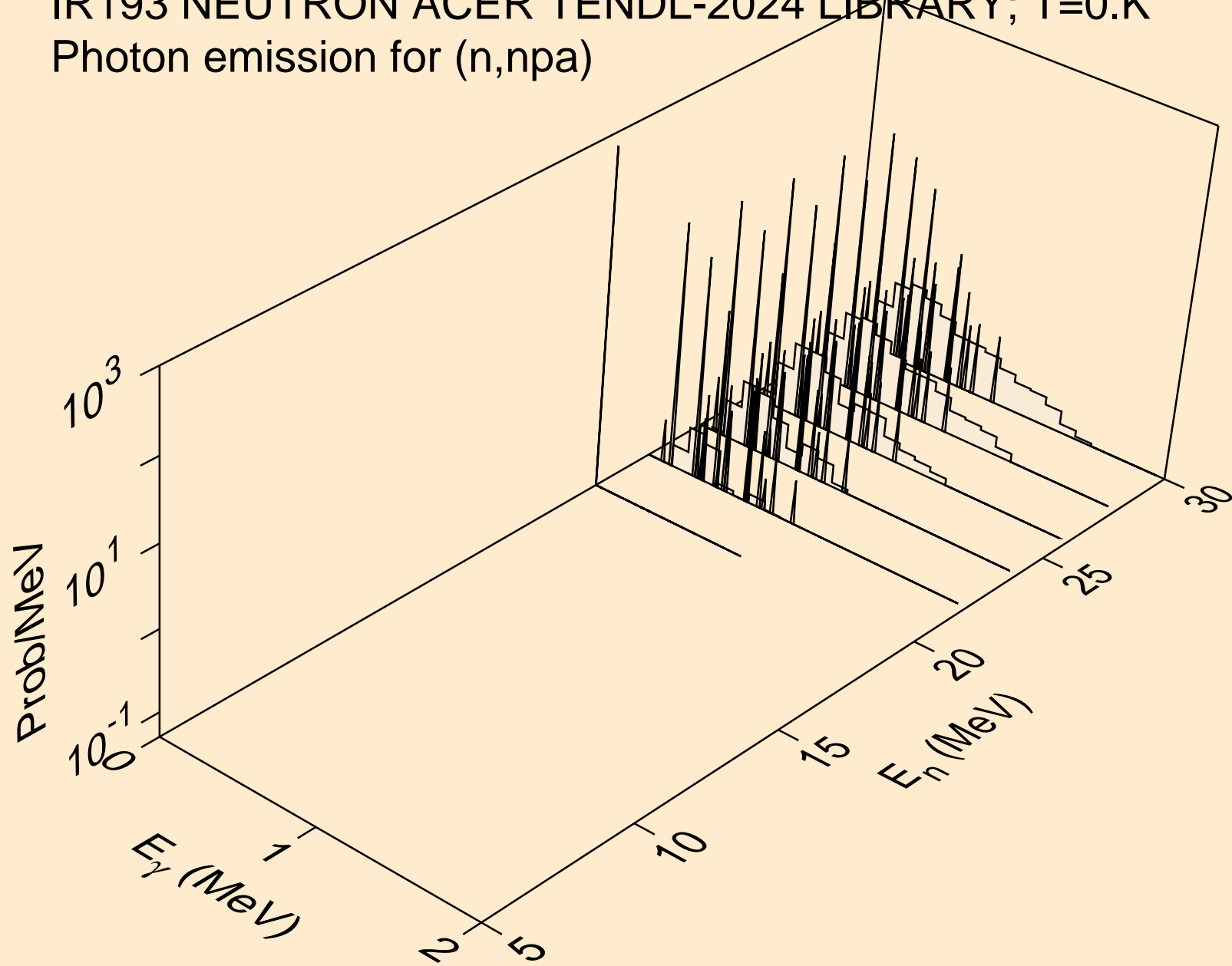
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Photon emission for (n,3np)



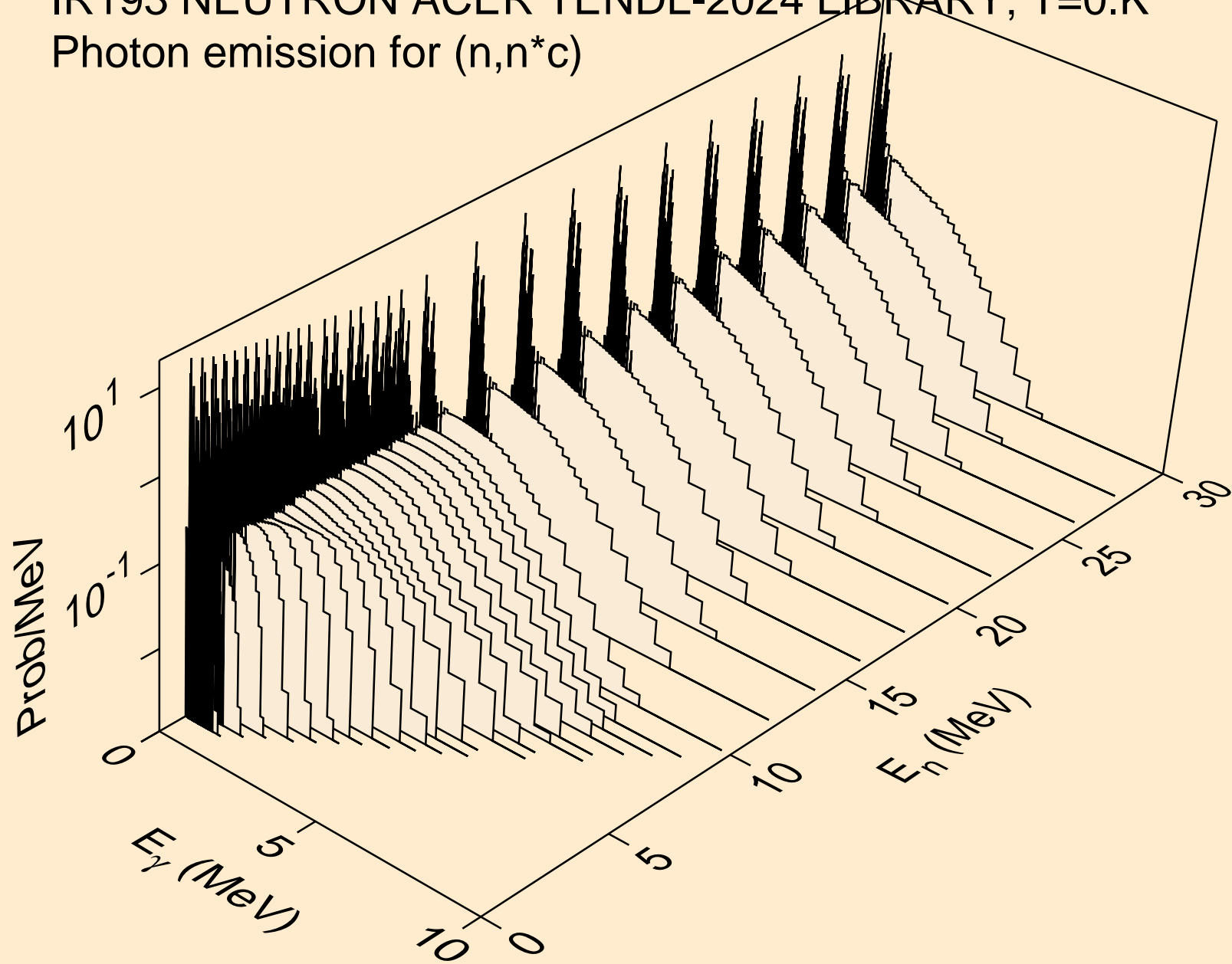
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Photon emission for (n,n2p)



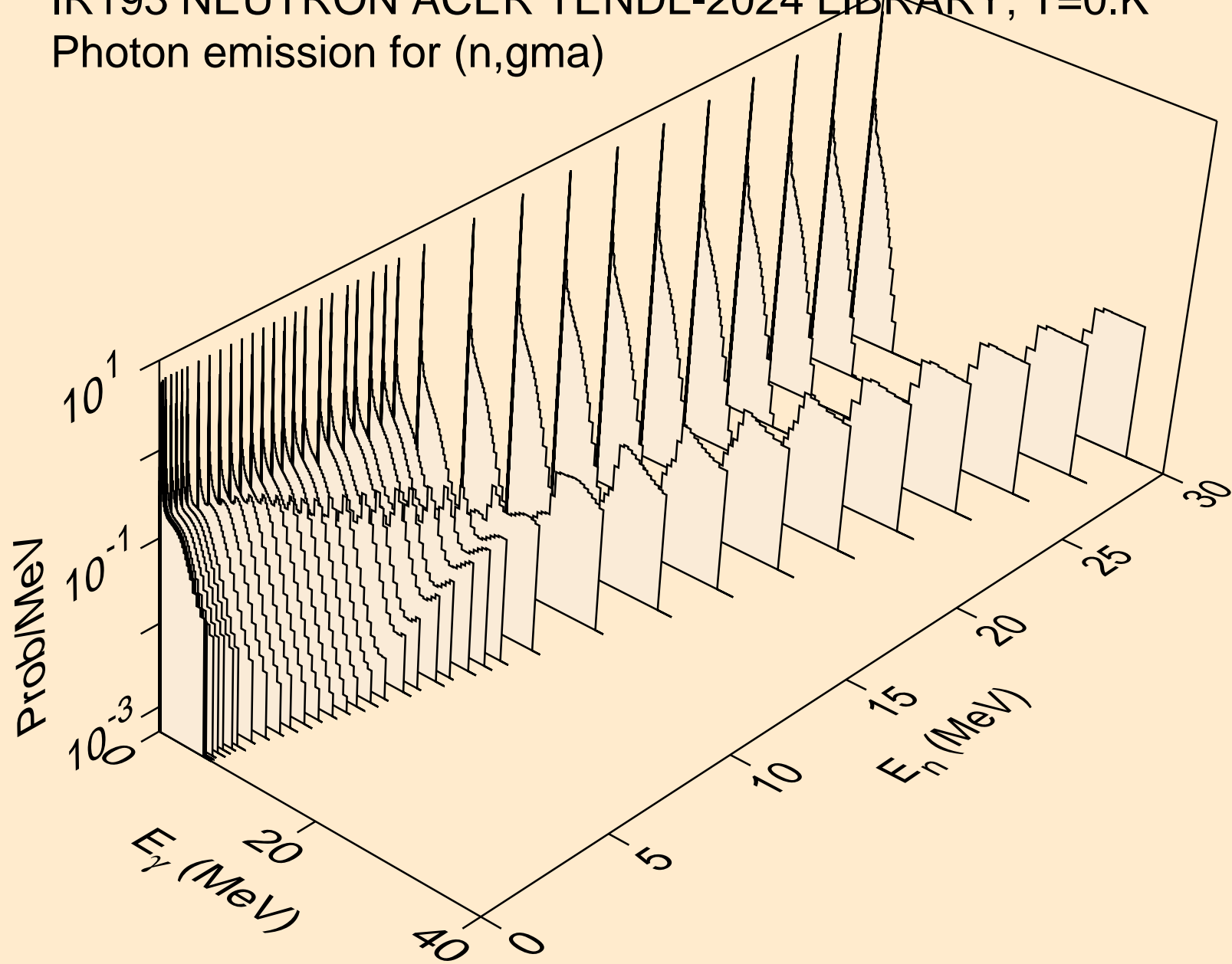
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Photon emission for (n,npa)



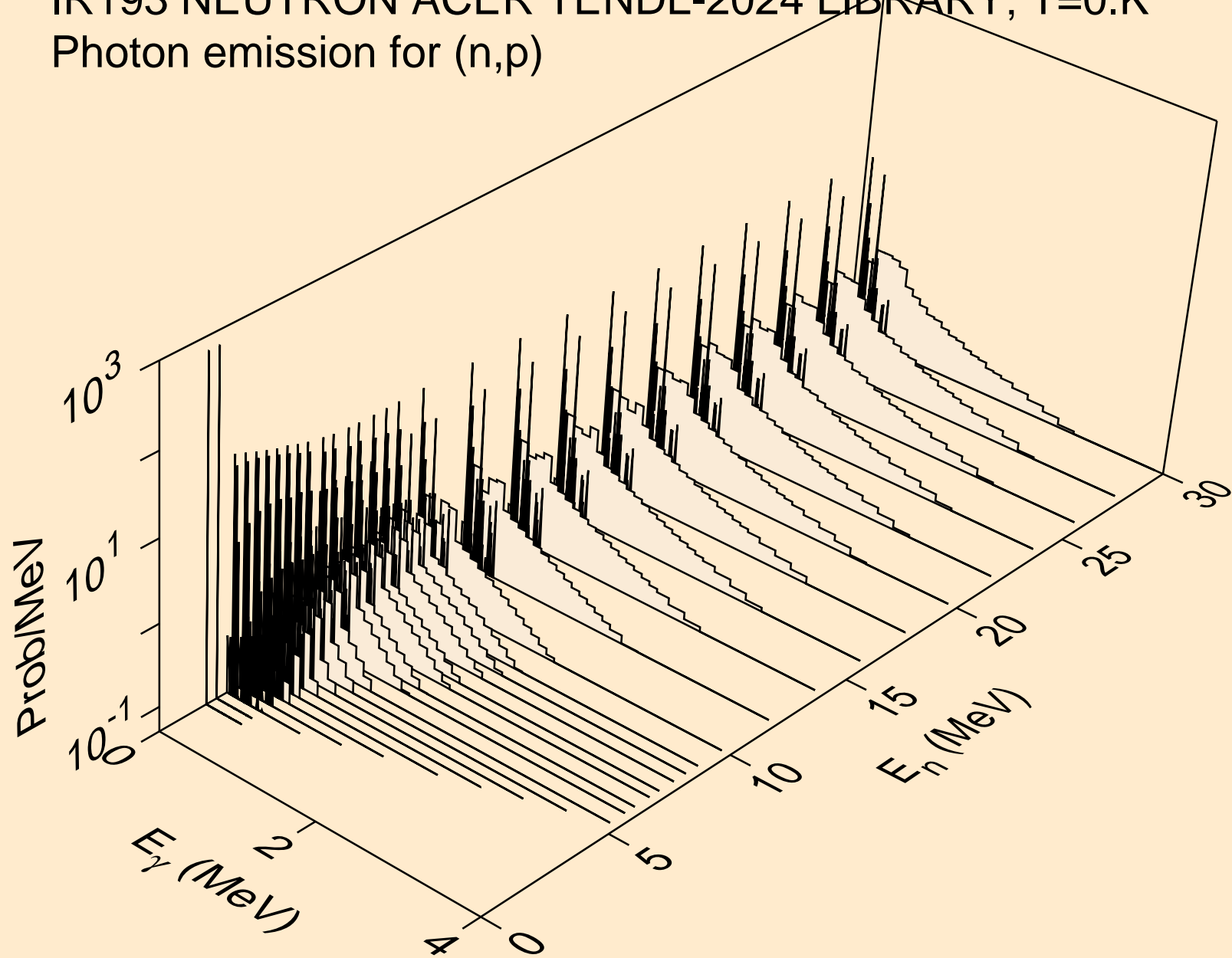
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Photon emission for (n,n\*c)



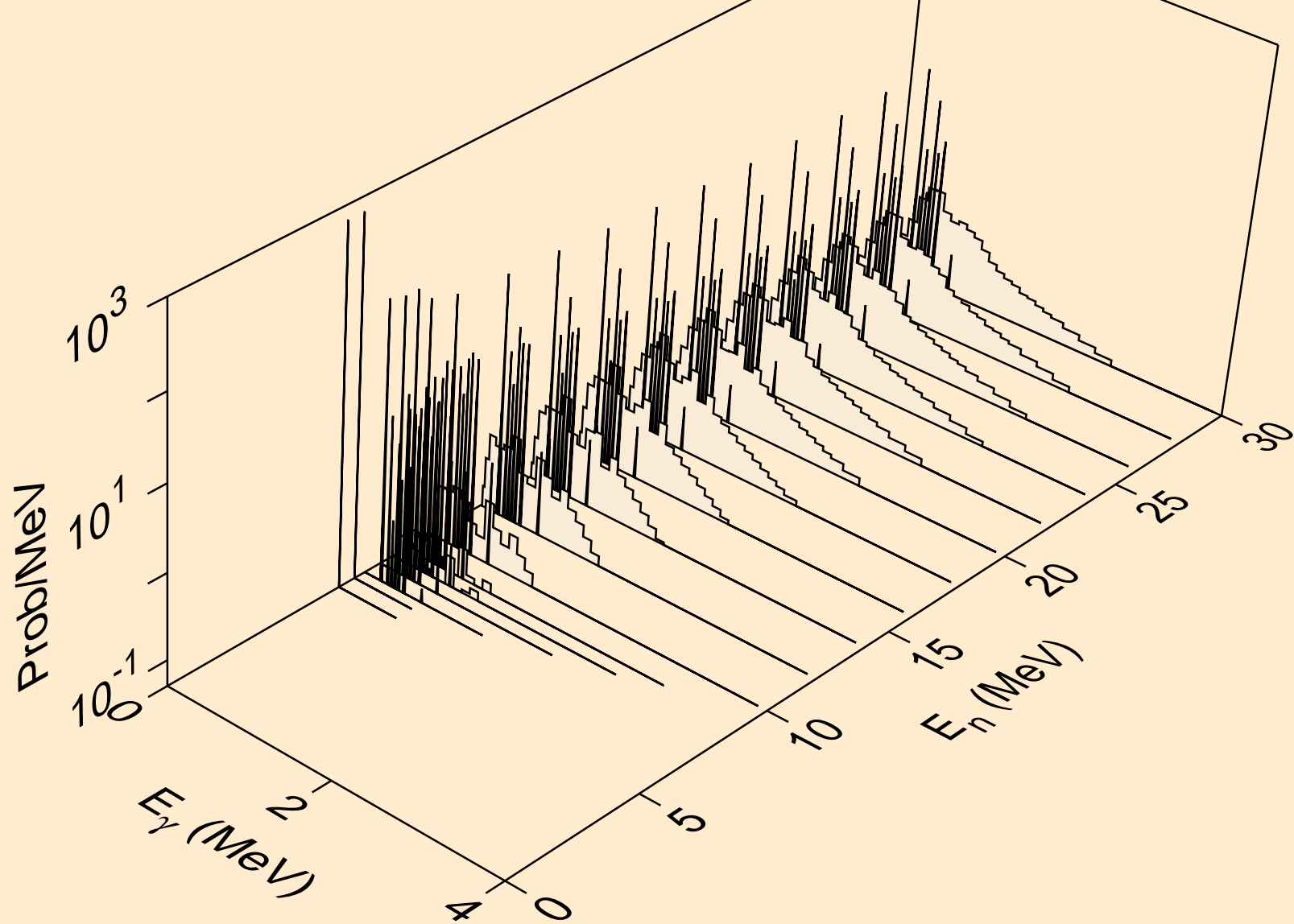
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Photon emission for (n,gma)



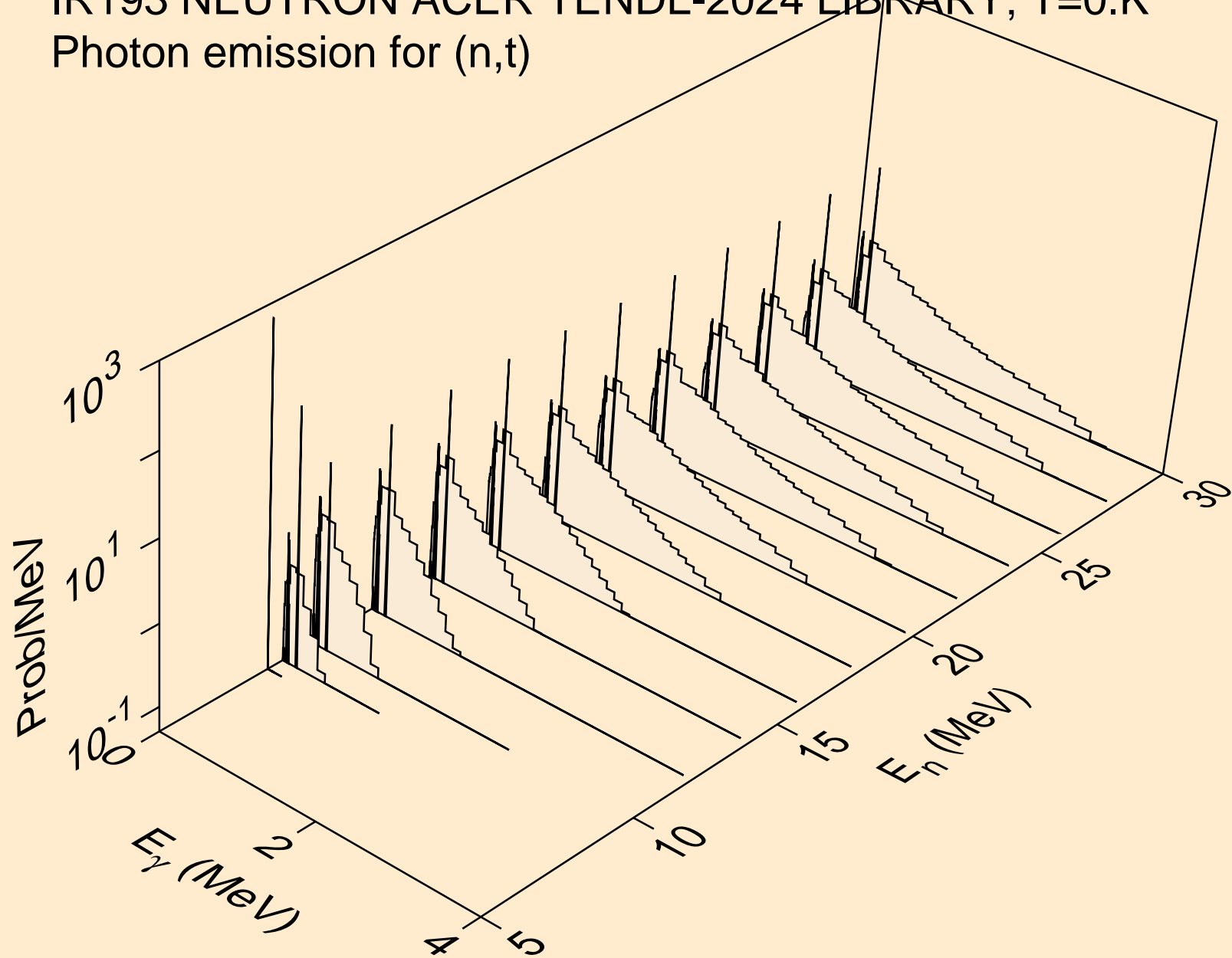
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)



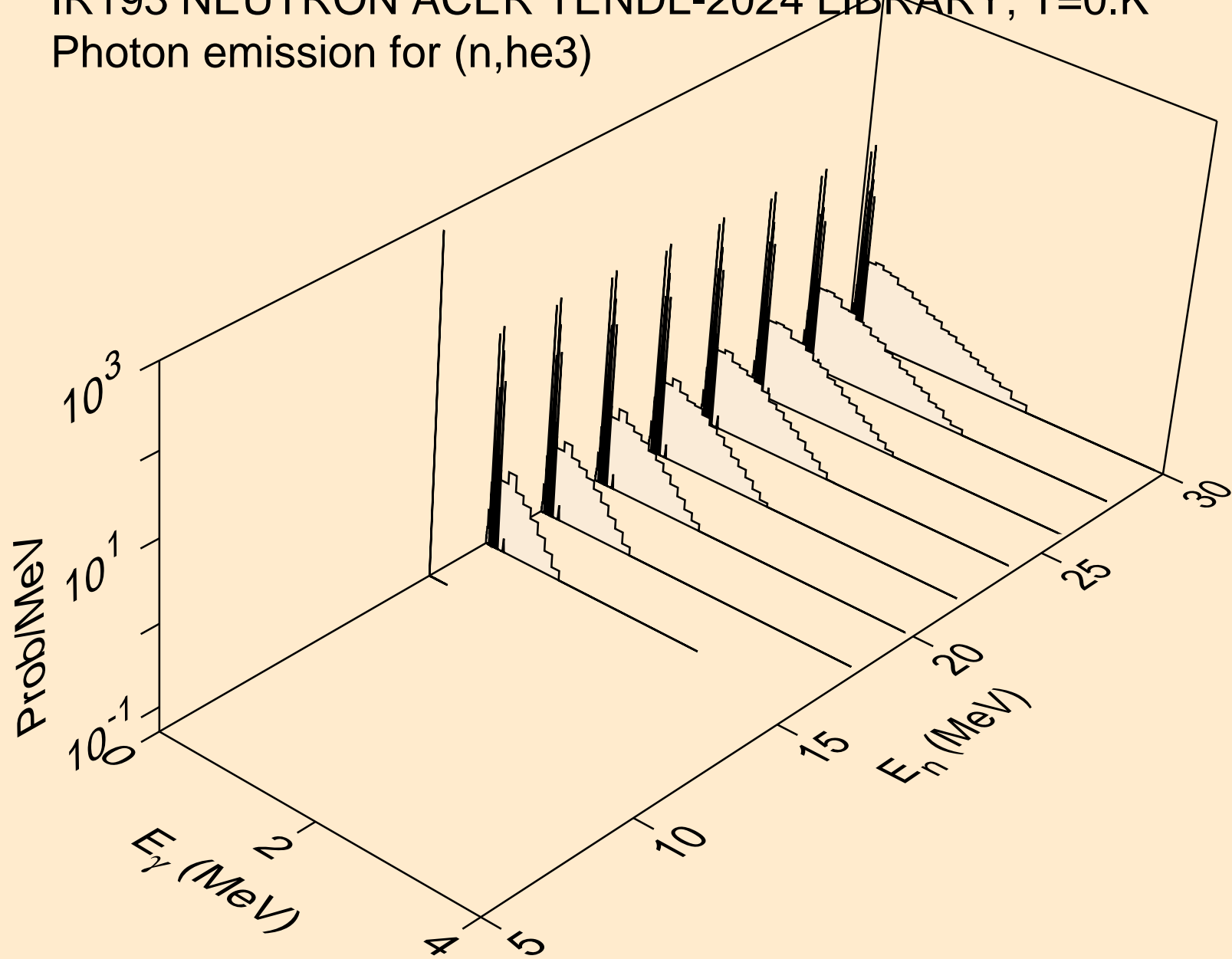
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)



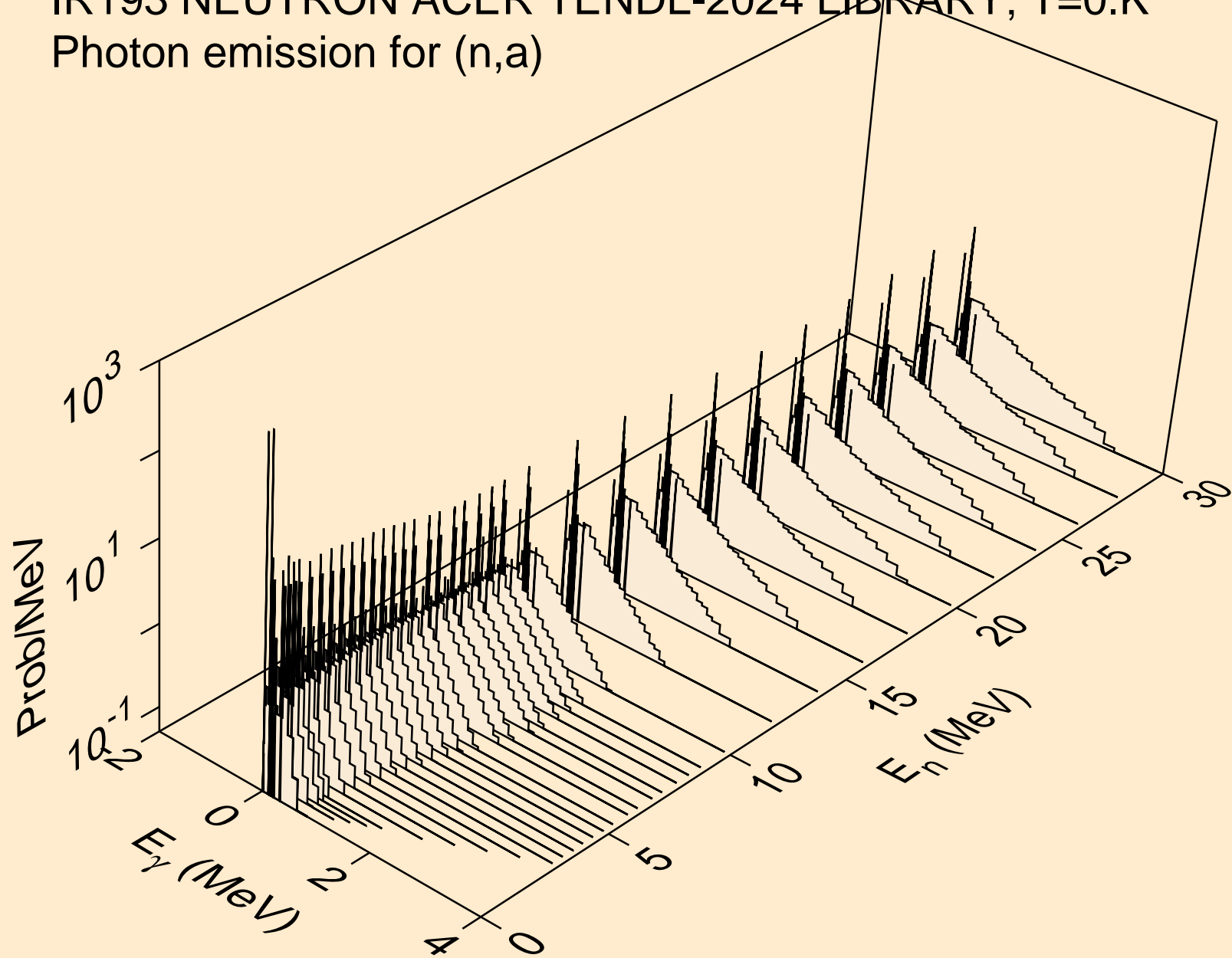
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Photon emission for (n,t)



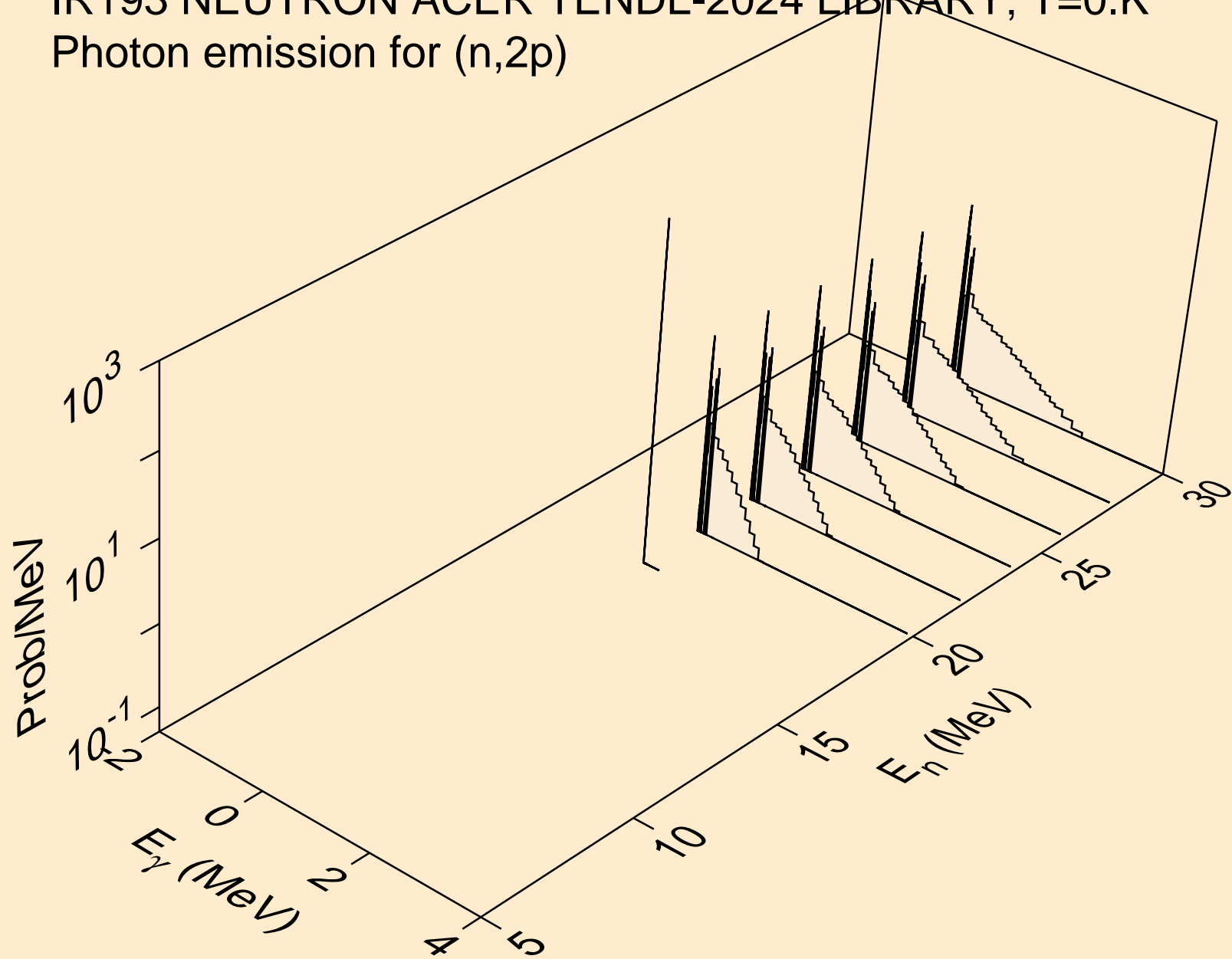
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Photon emission for (n,he3)



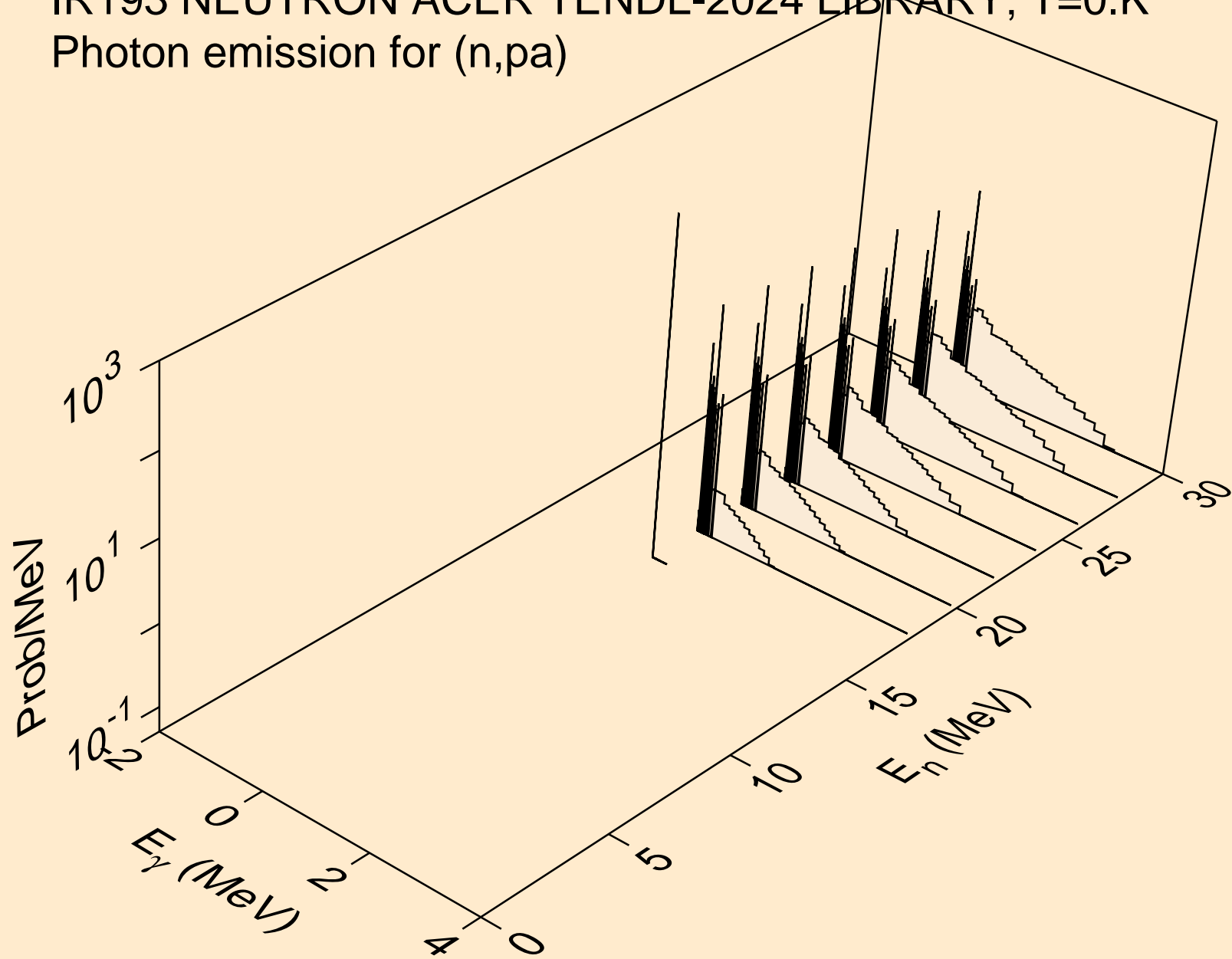
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Photon emission for (n,a)



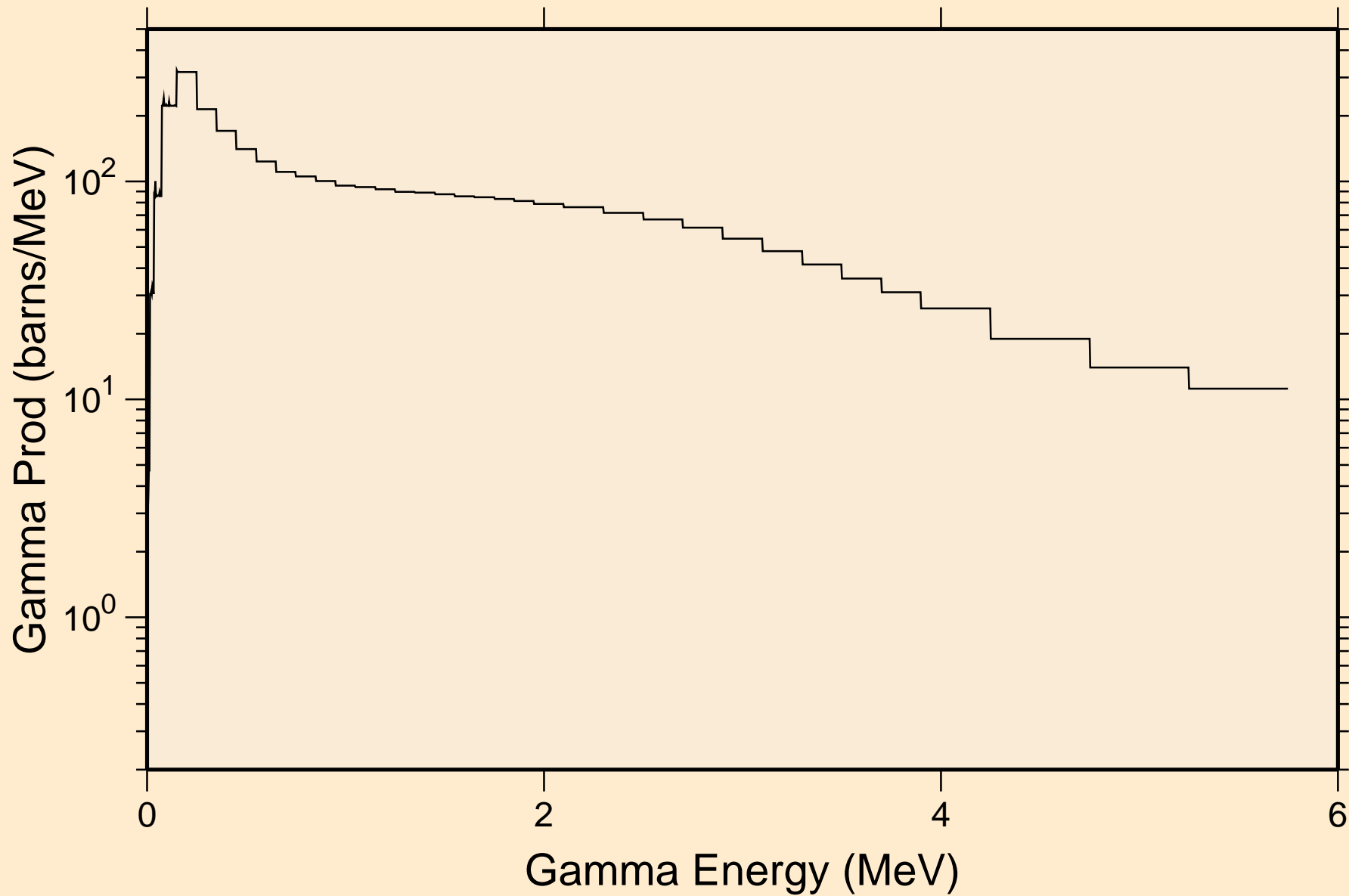
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2p)



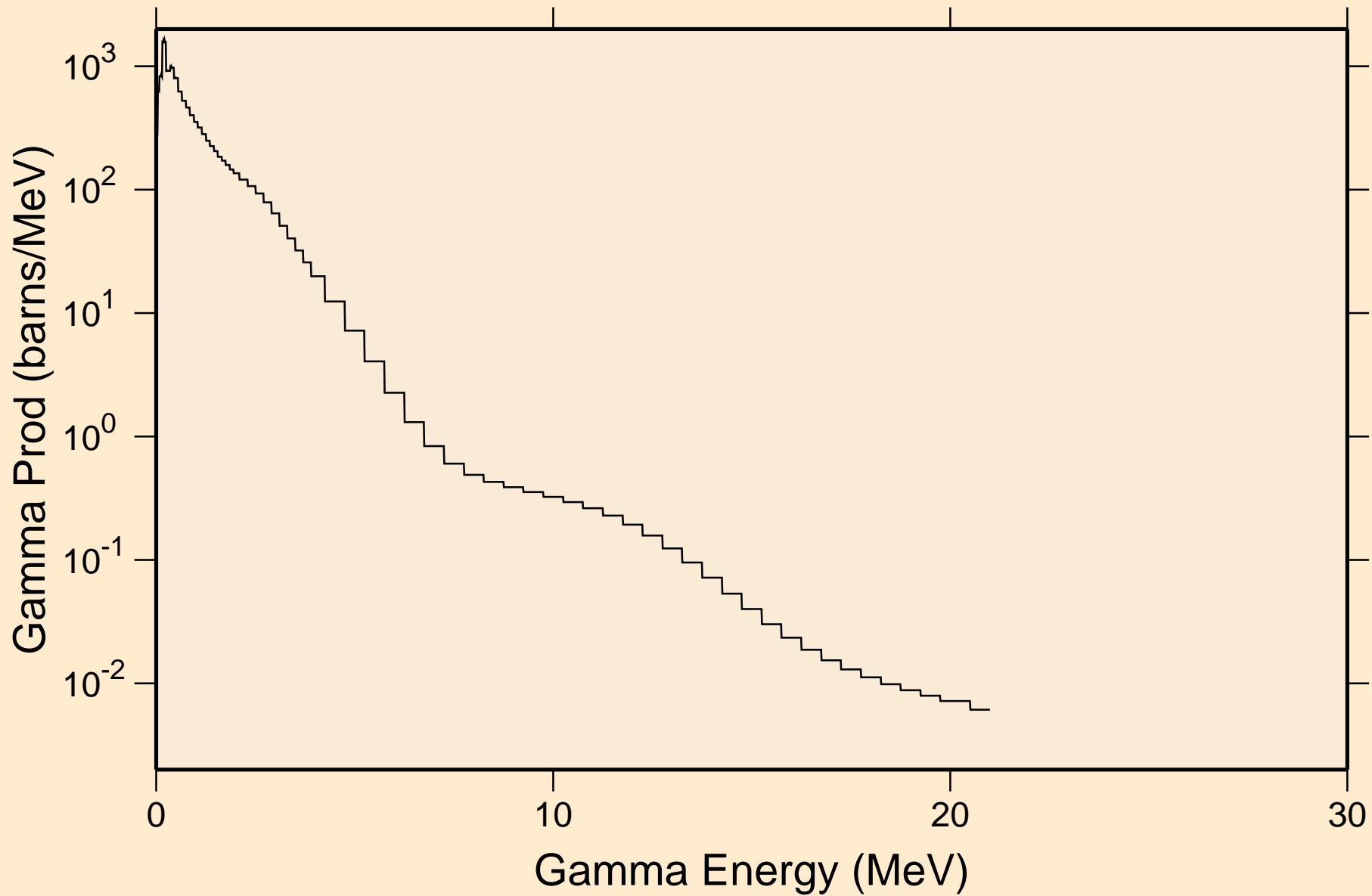
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)



IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

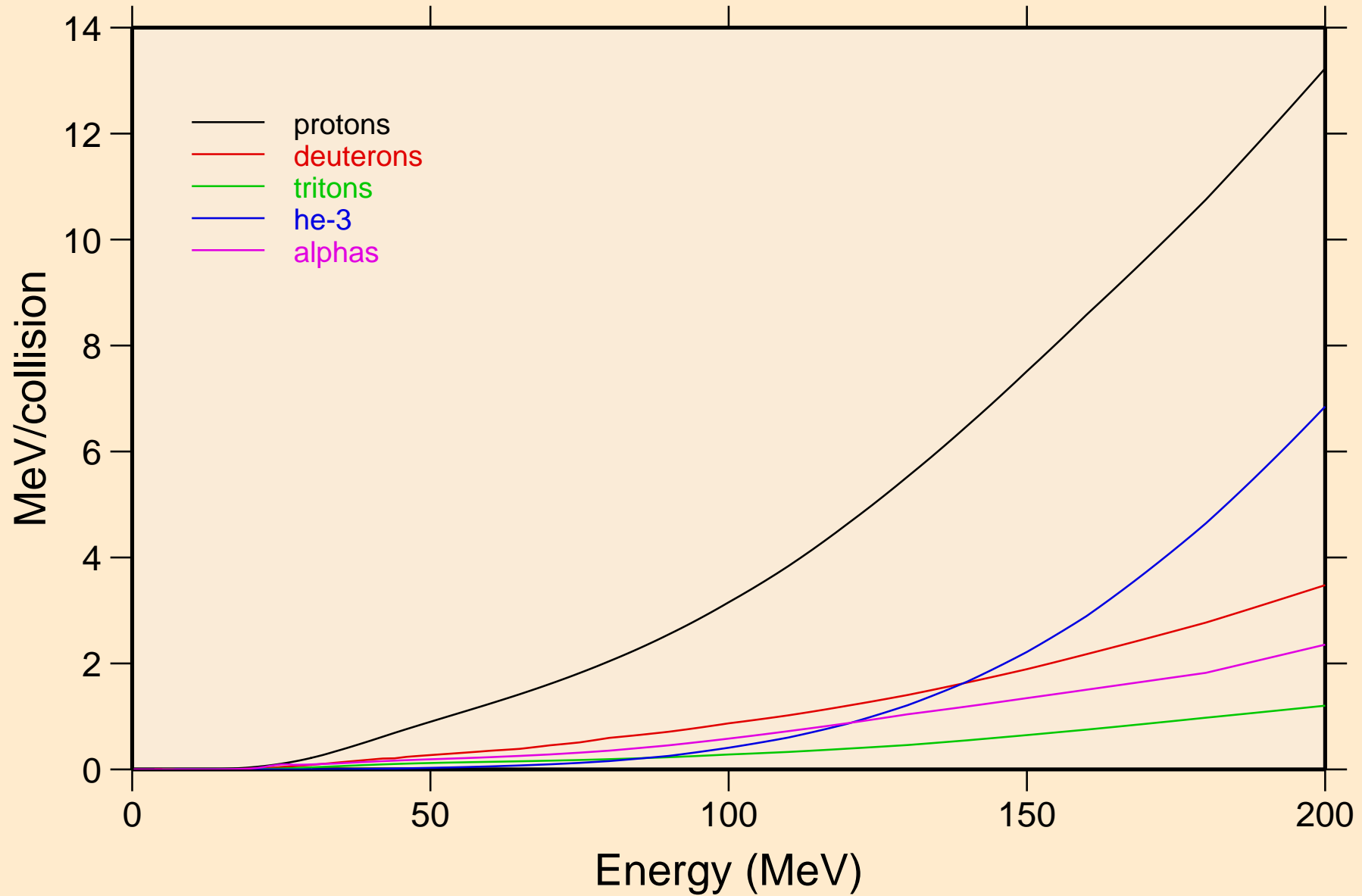


IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

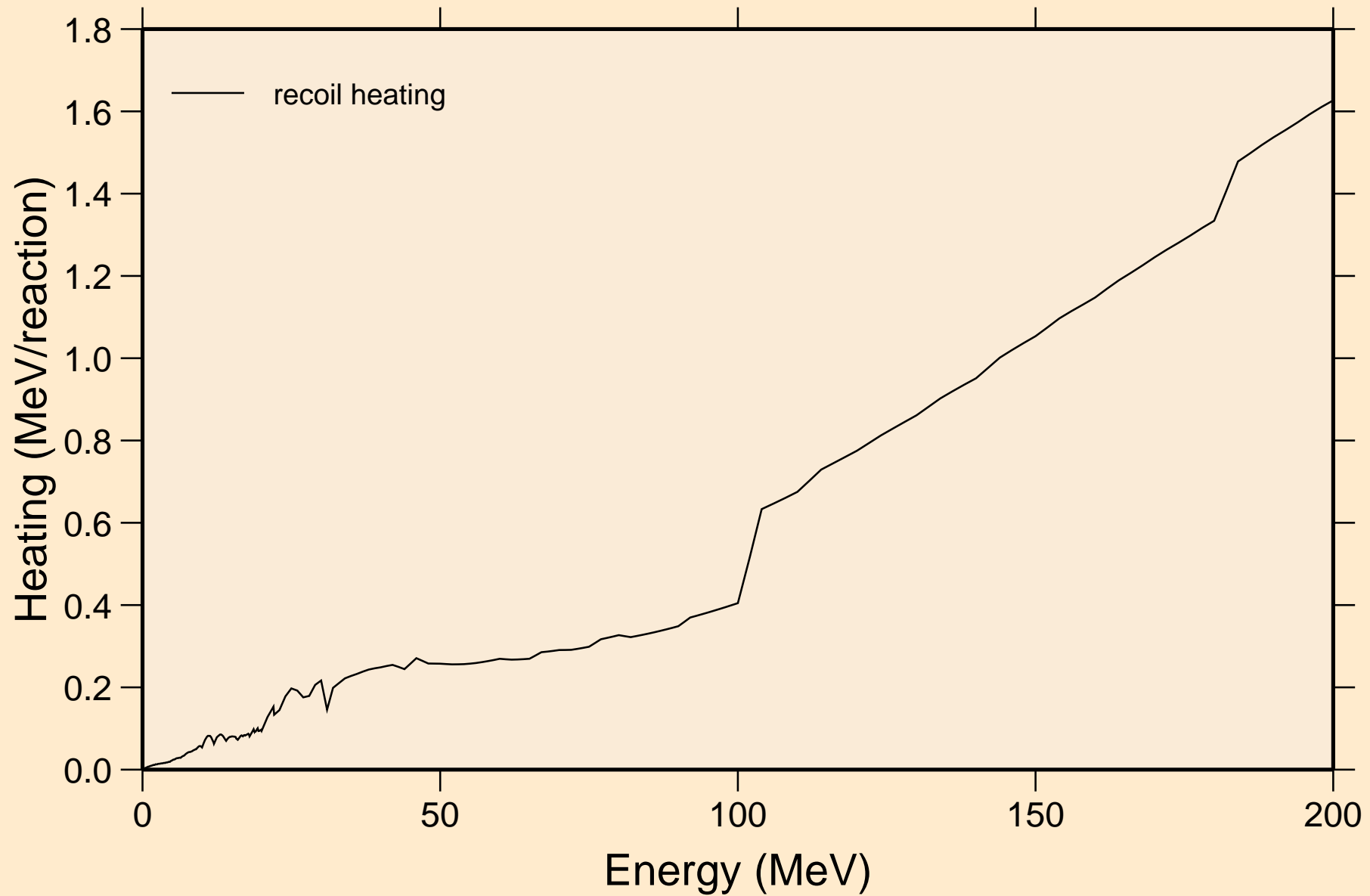


# IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

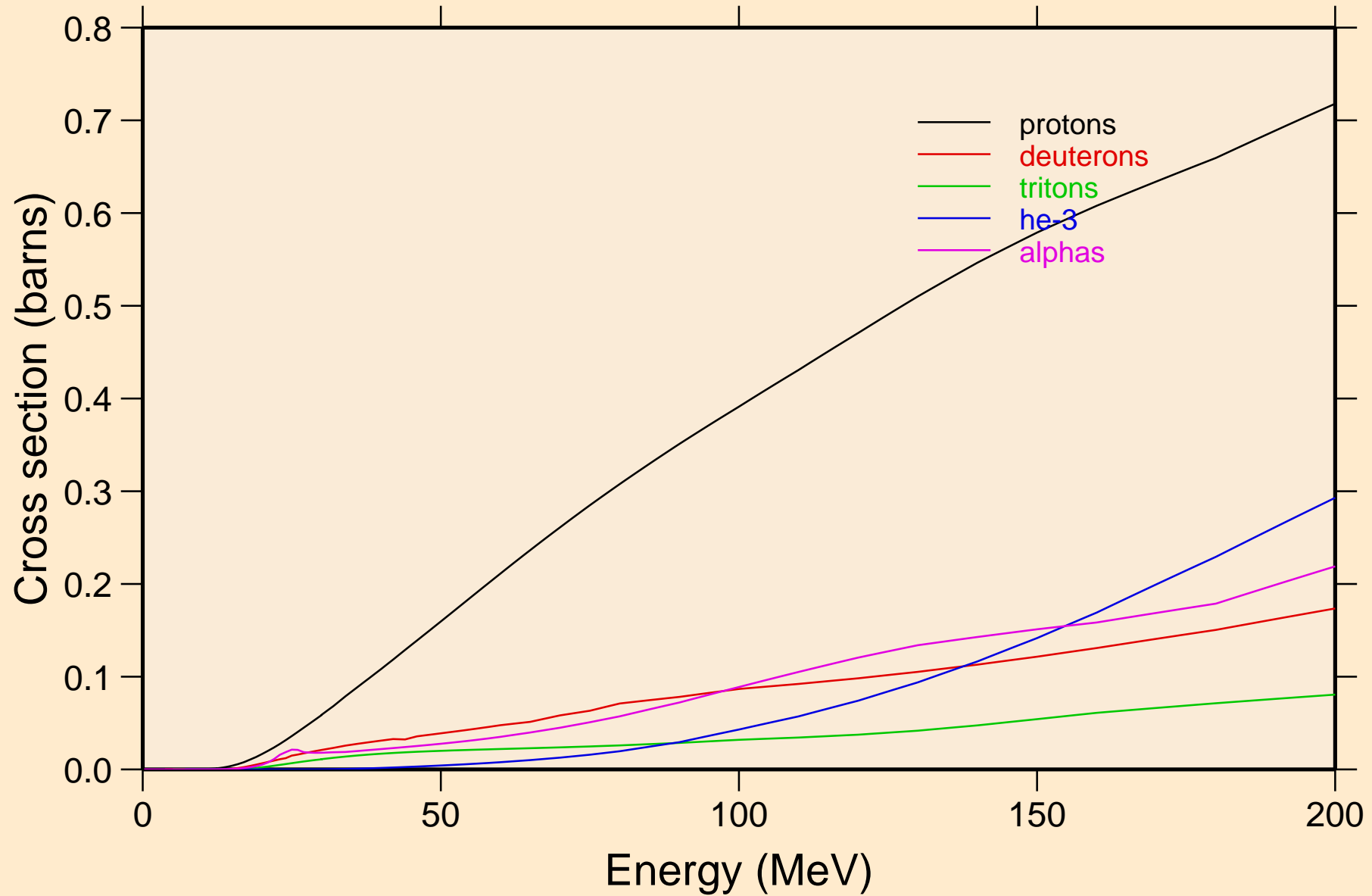
## Particle heating contributions



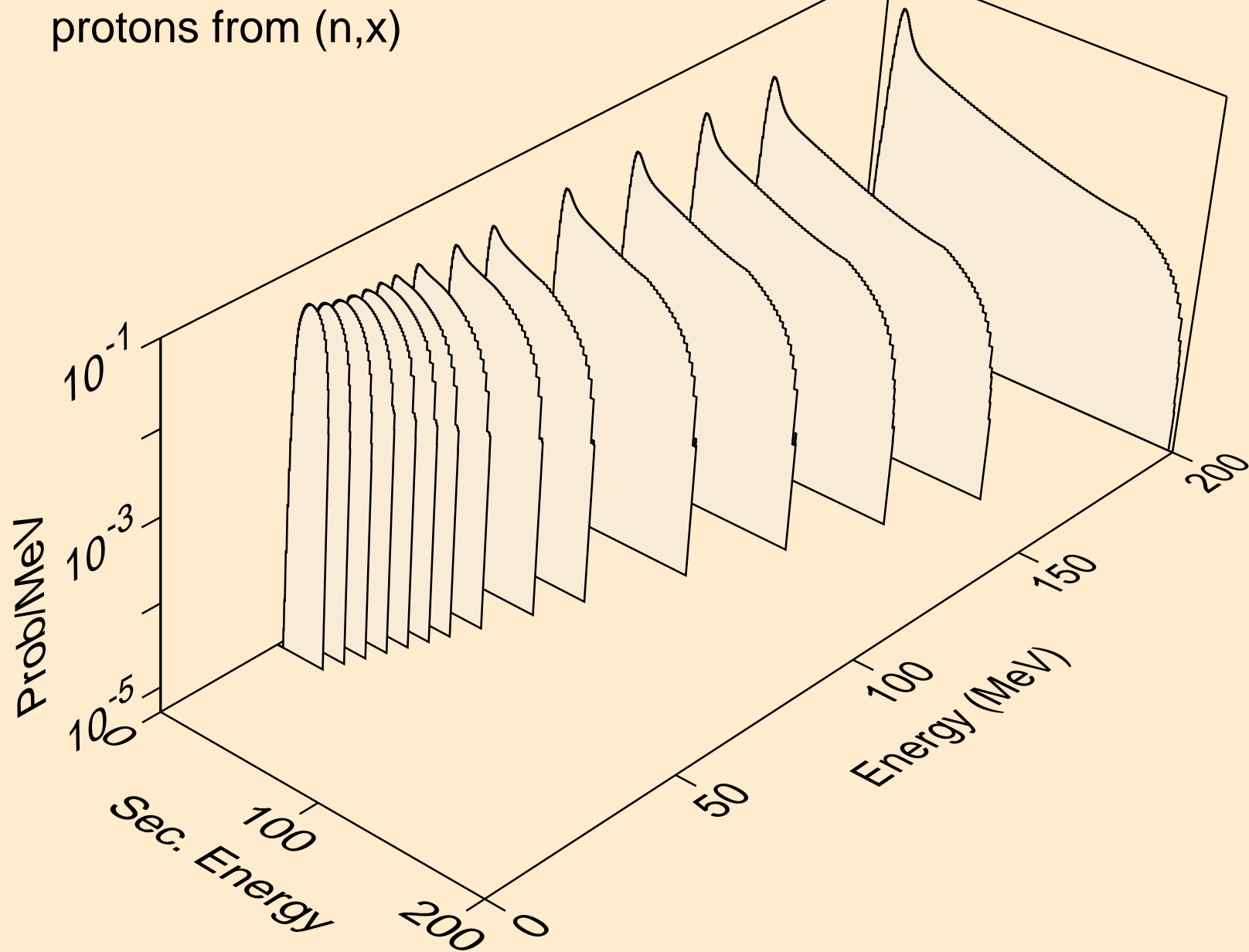
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Recoil Heating



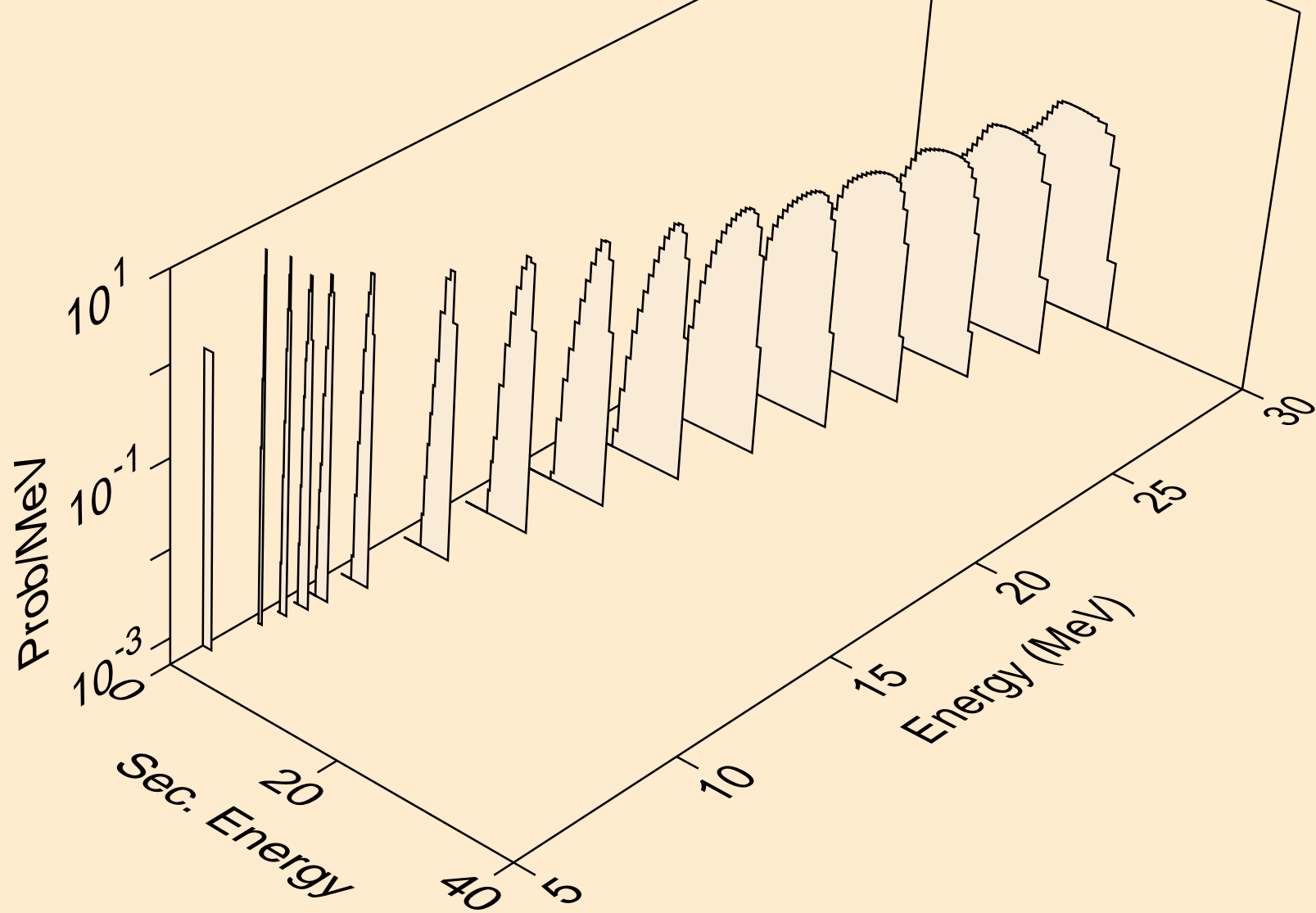
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Particle production cross sections



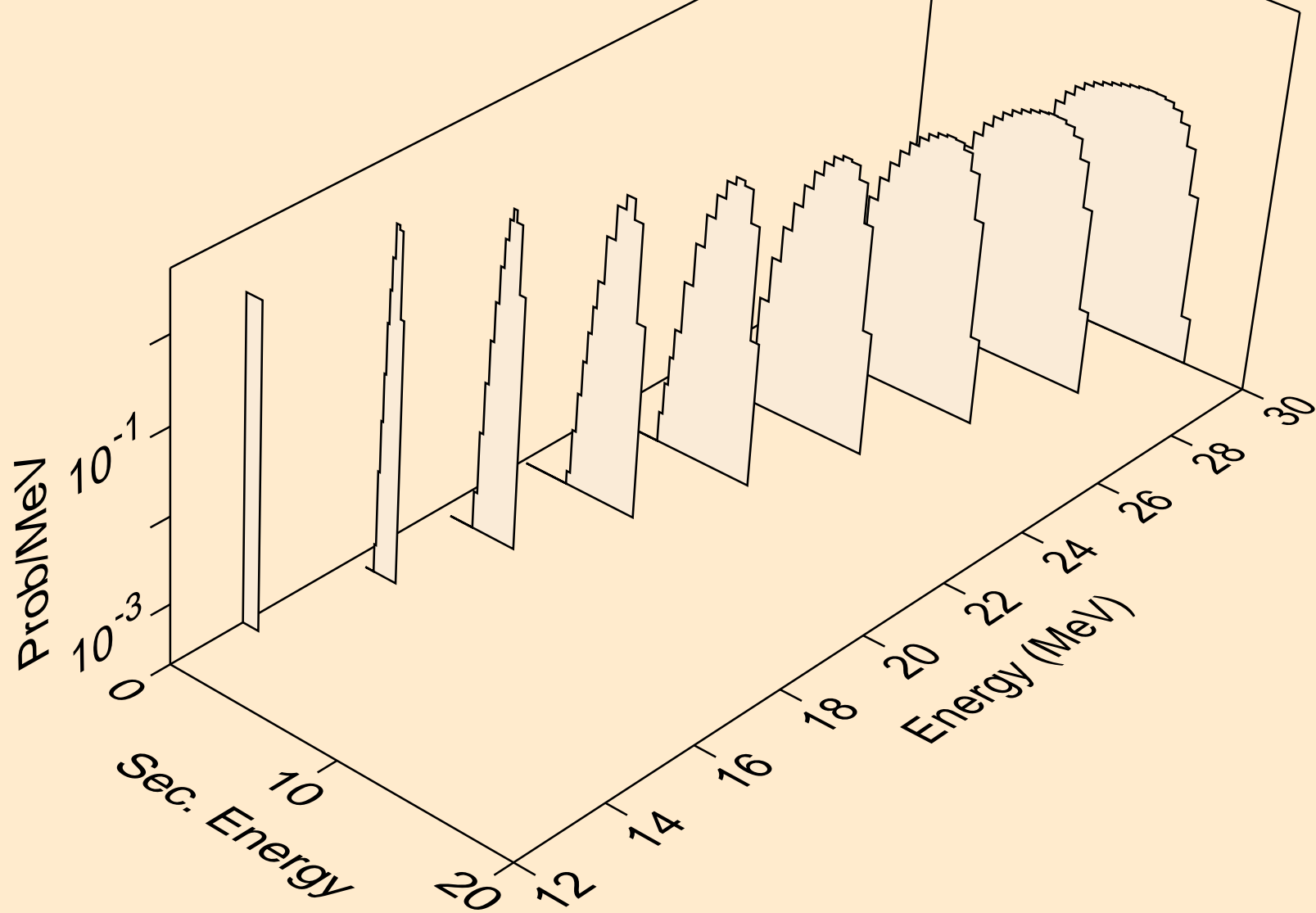
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)



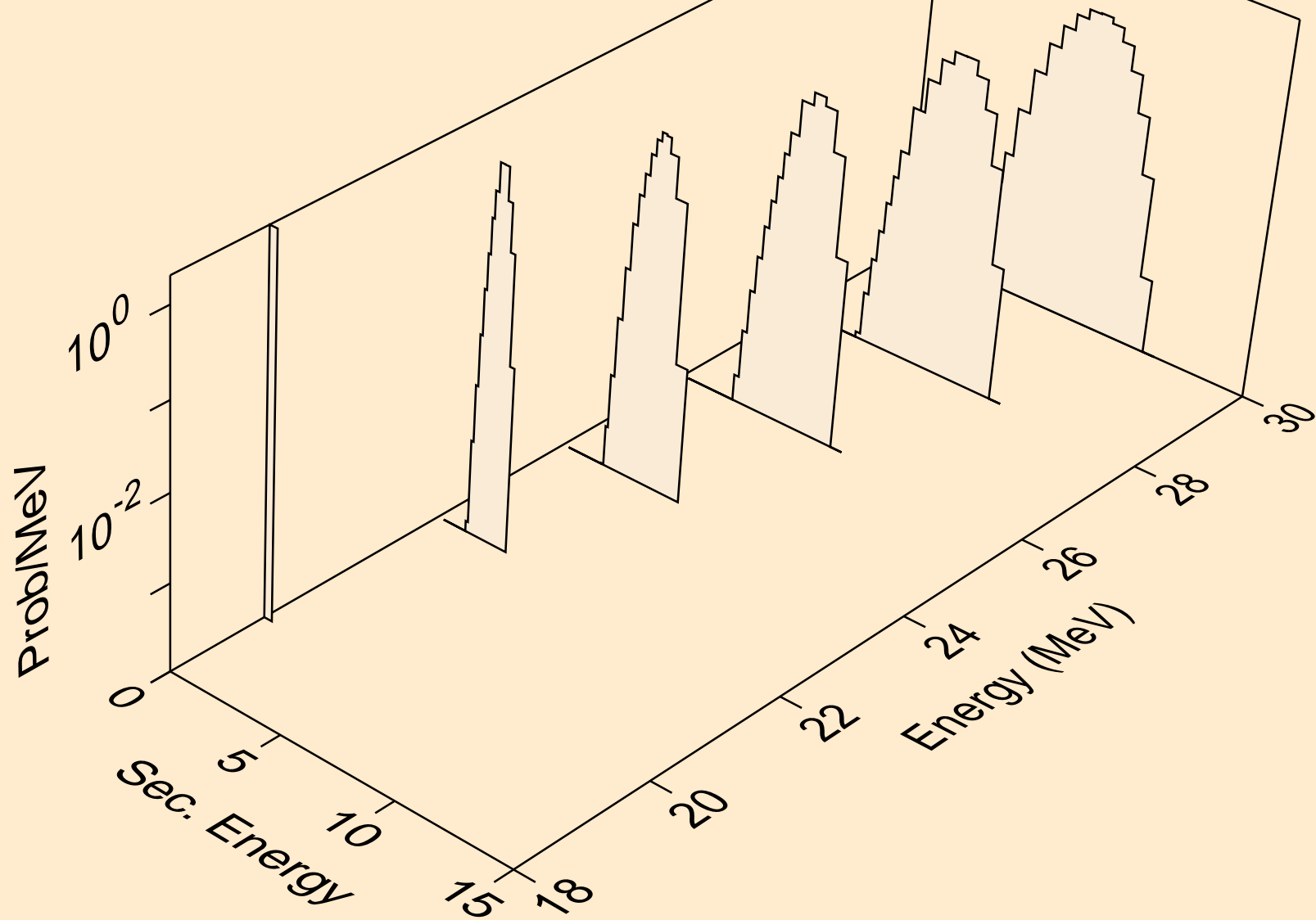
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protons from (n,n\*)p



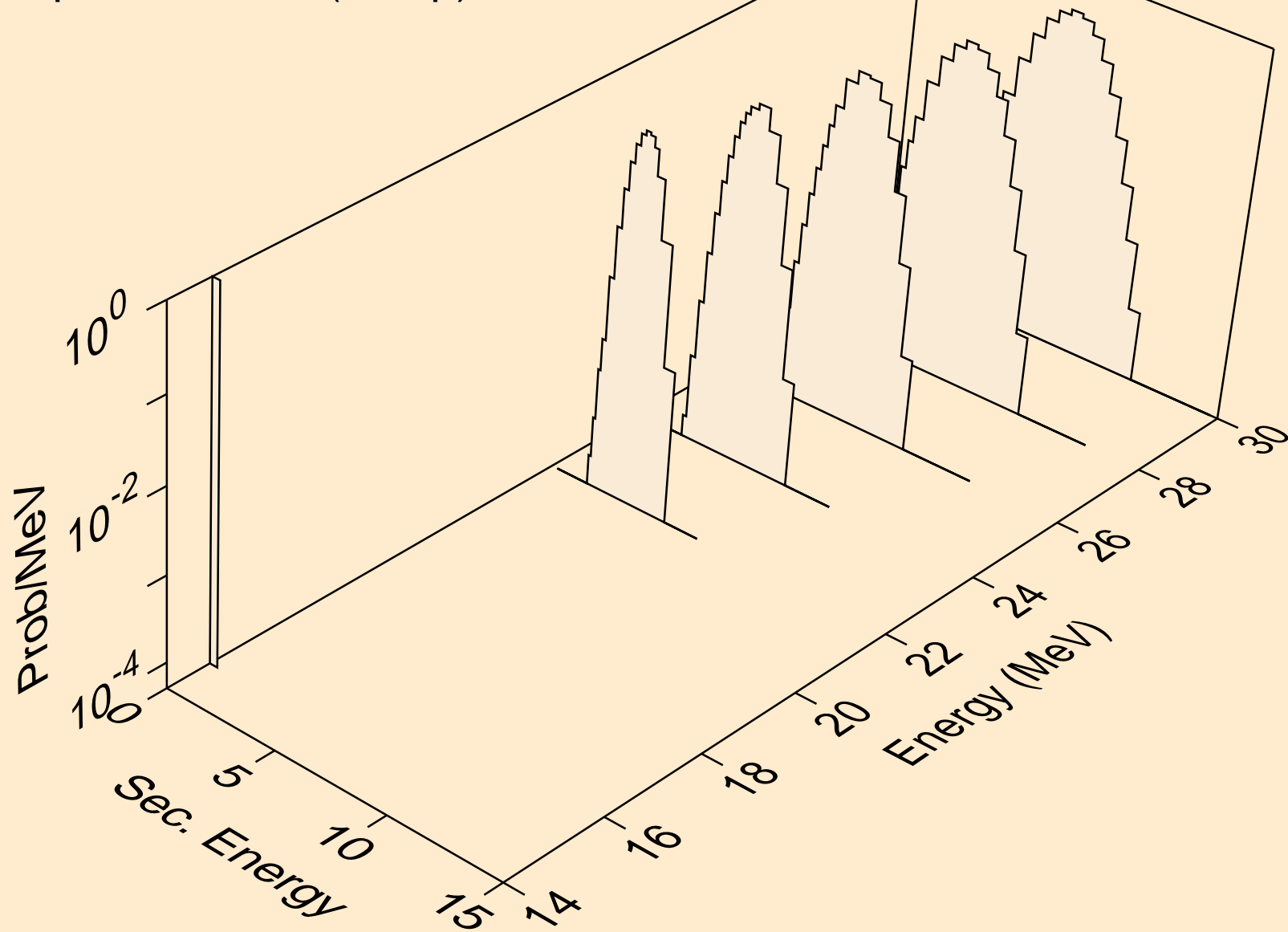
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protons from (n,2np)



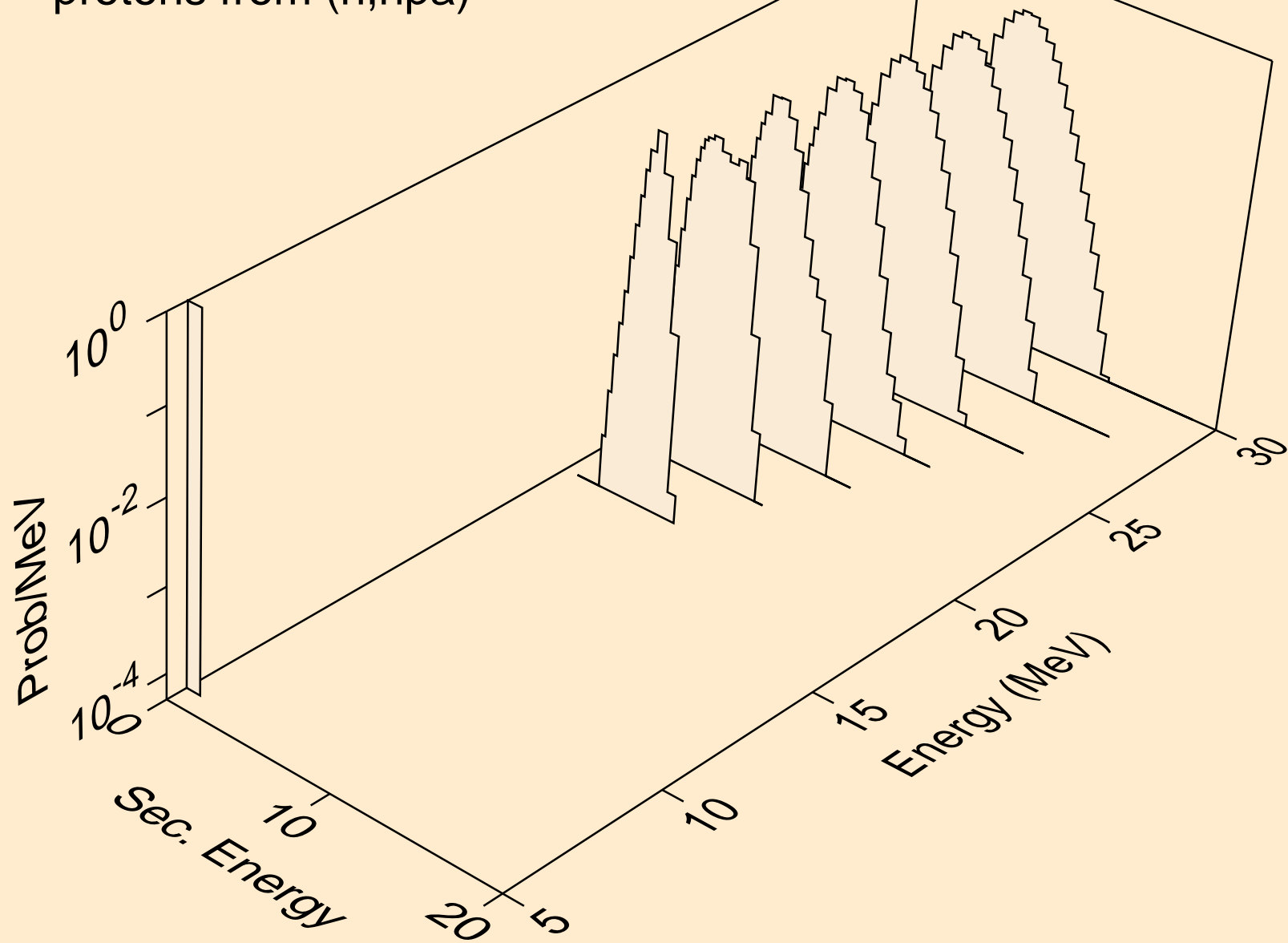
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protons from (n,3np)



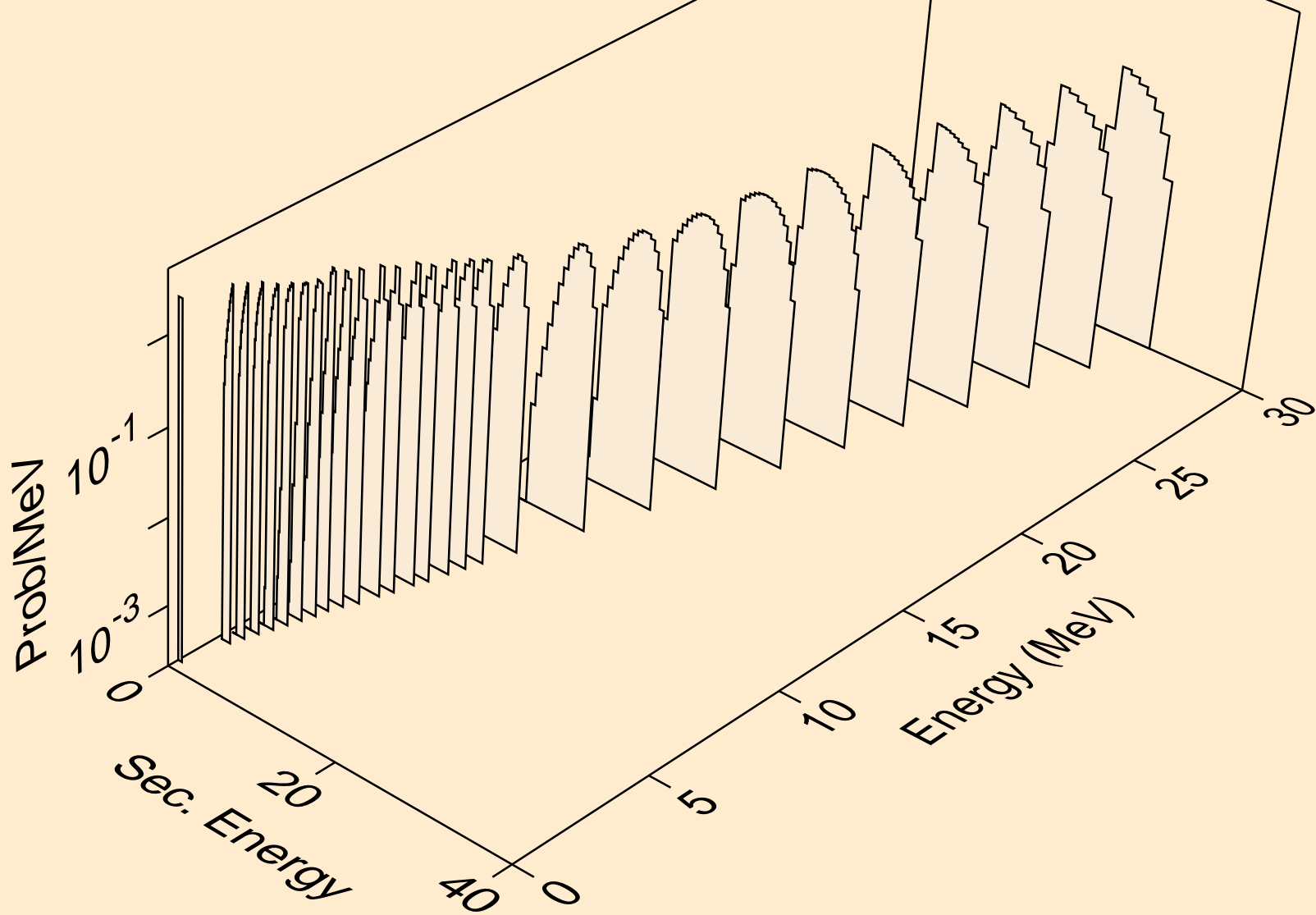
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protons from (n,n2p)



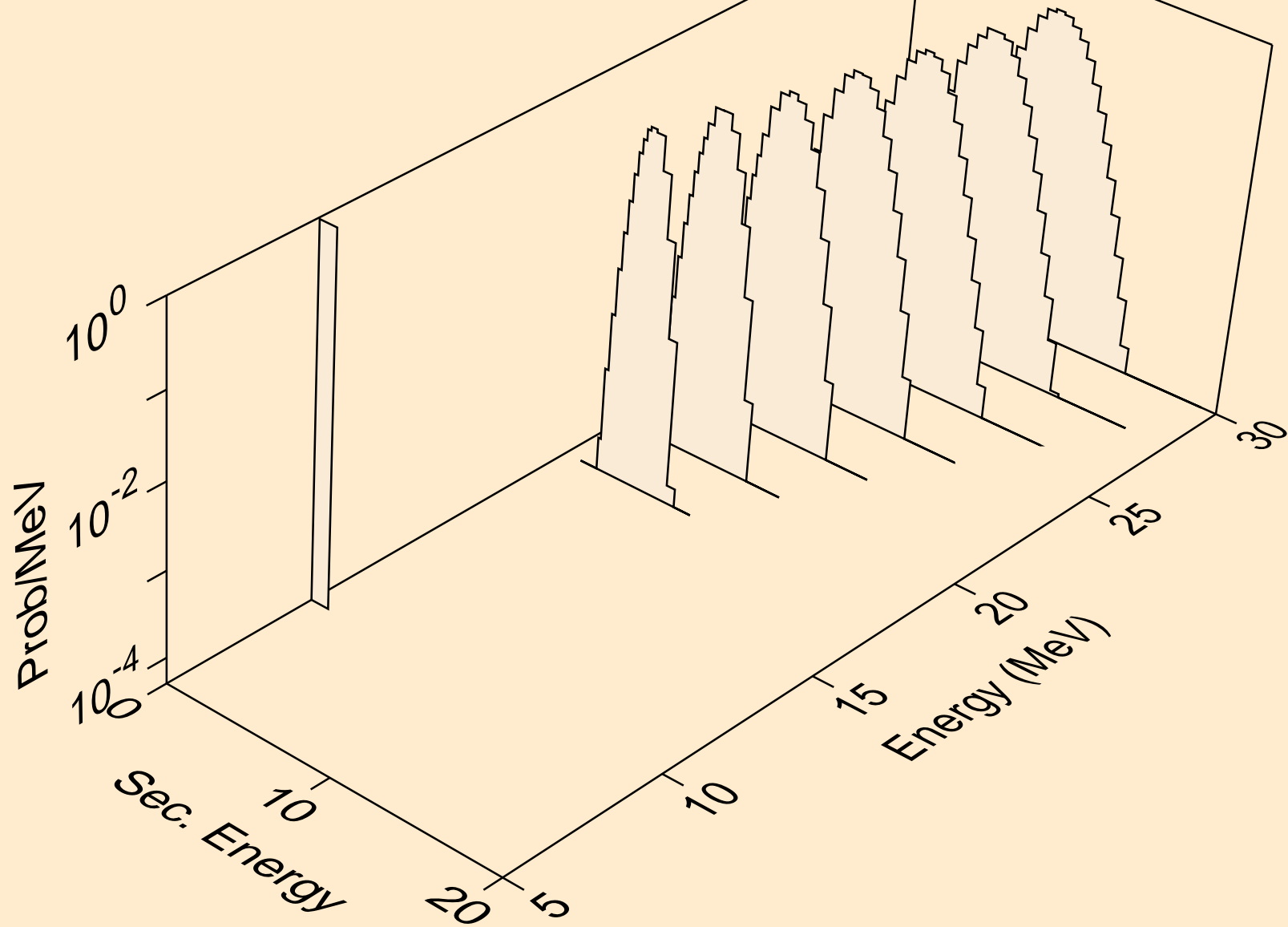
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protons from (n,npa)



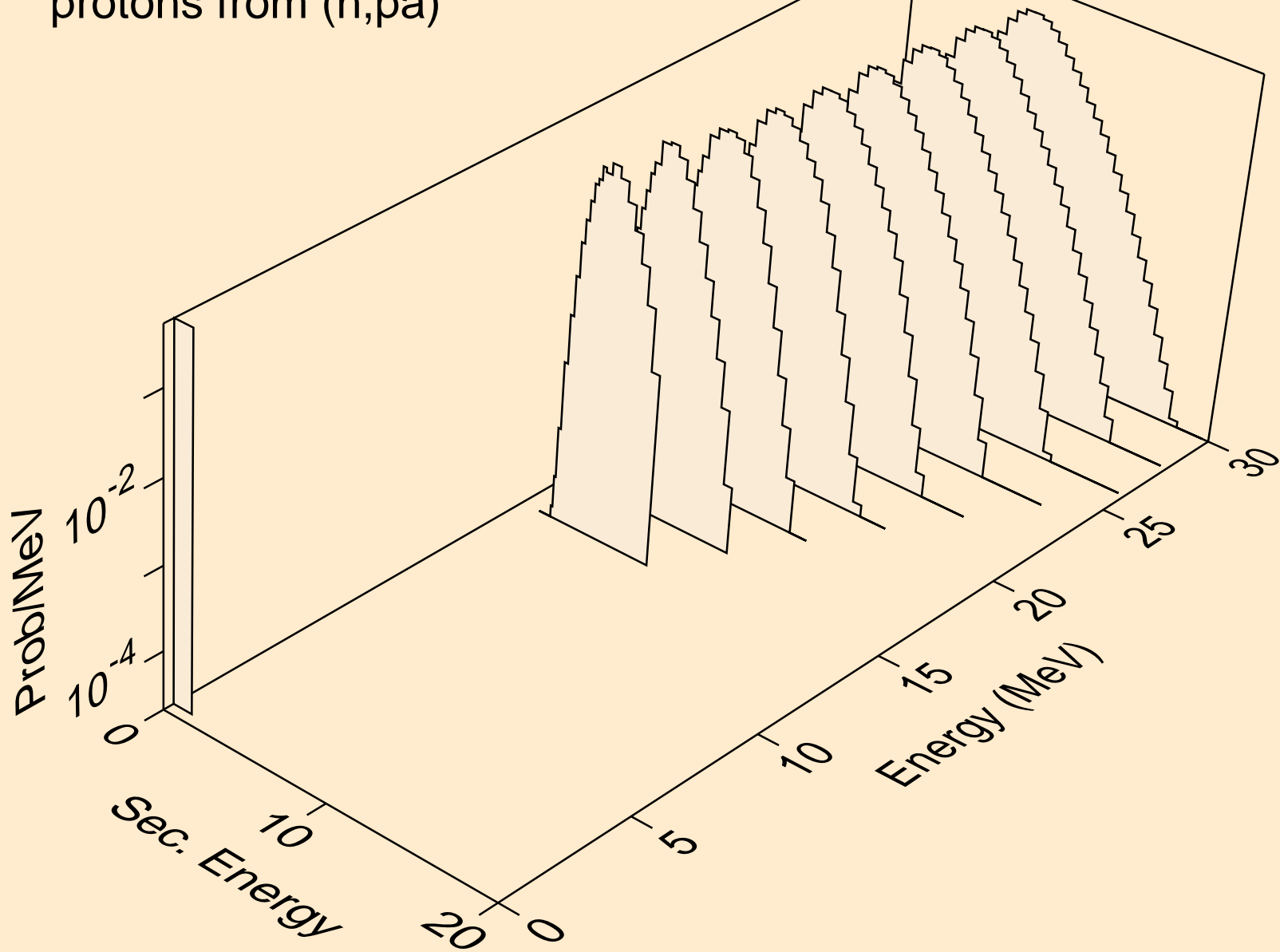
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protons from (n,p)



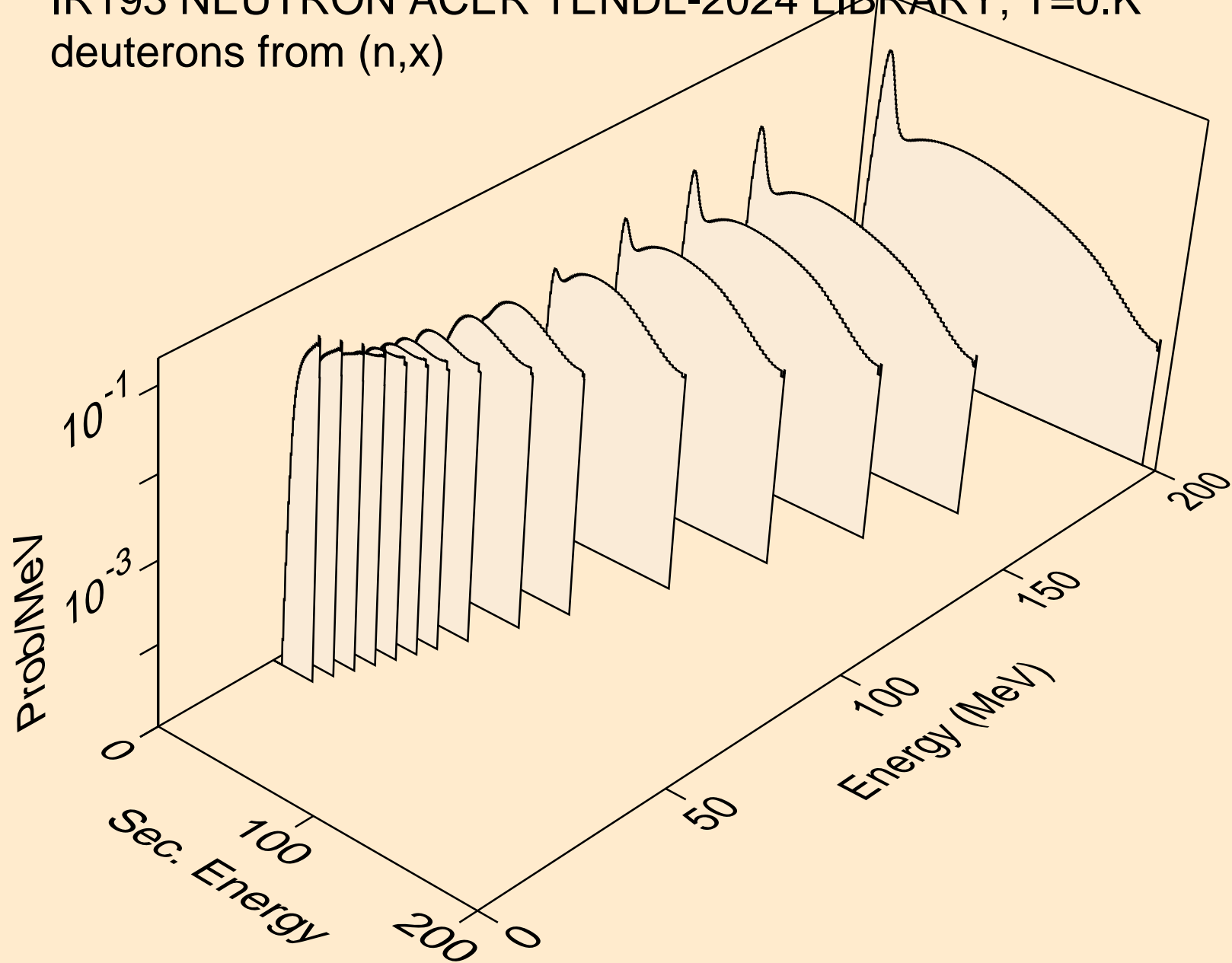
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protons from (n,2p)



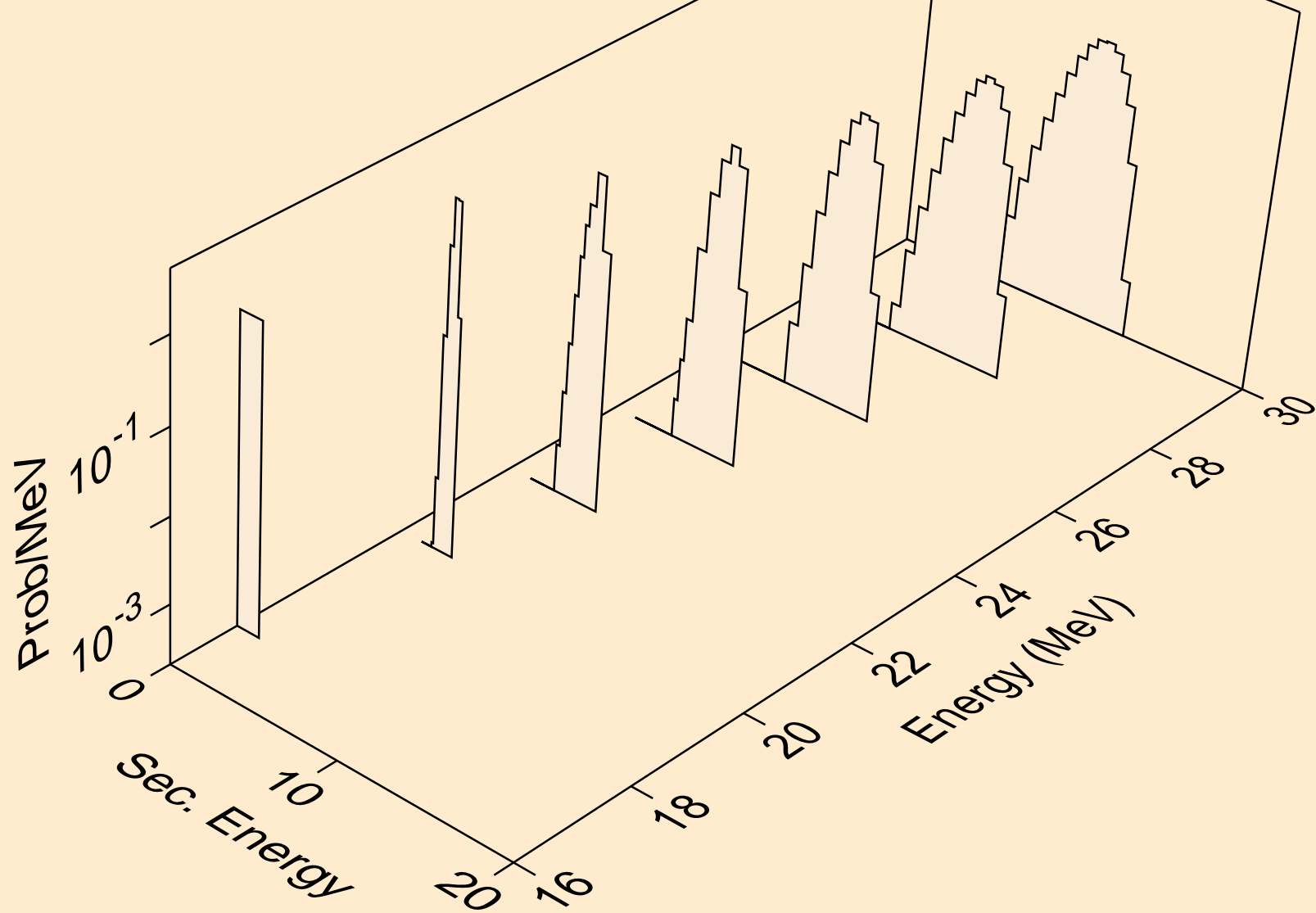
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protons from (n,p)



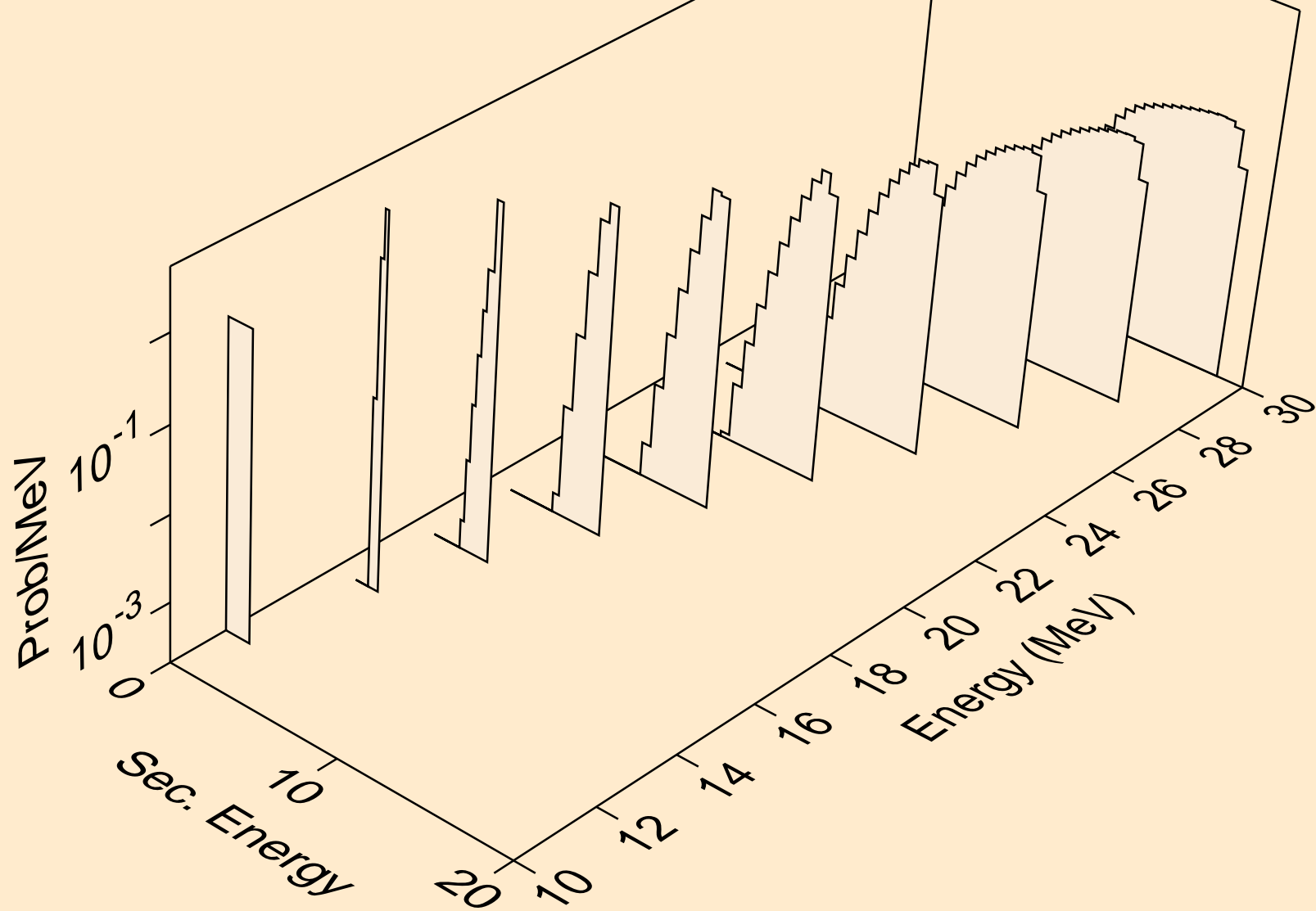
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deuterons from (n,x)



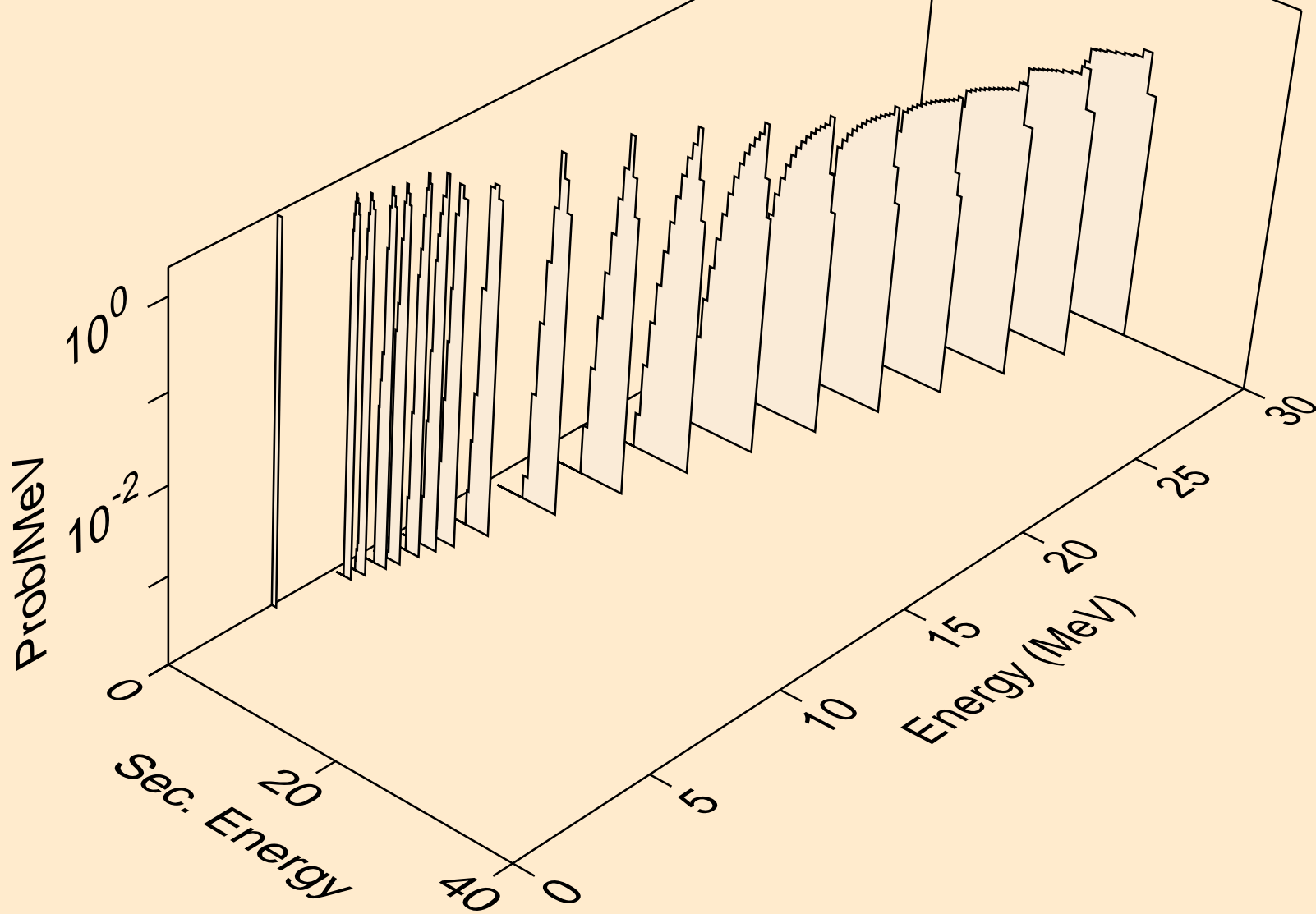
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deuterons from (n,2nd)



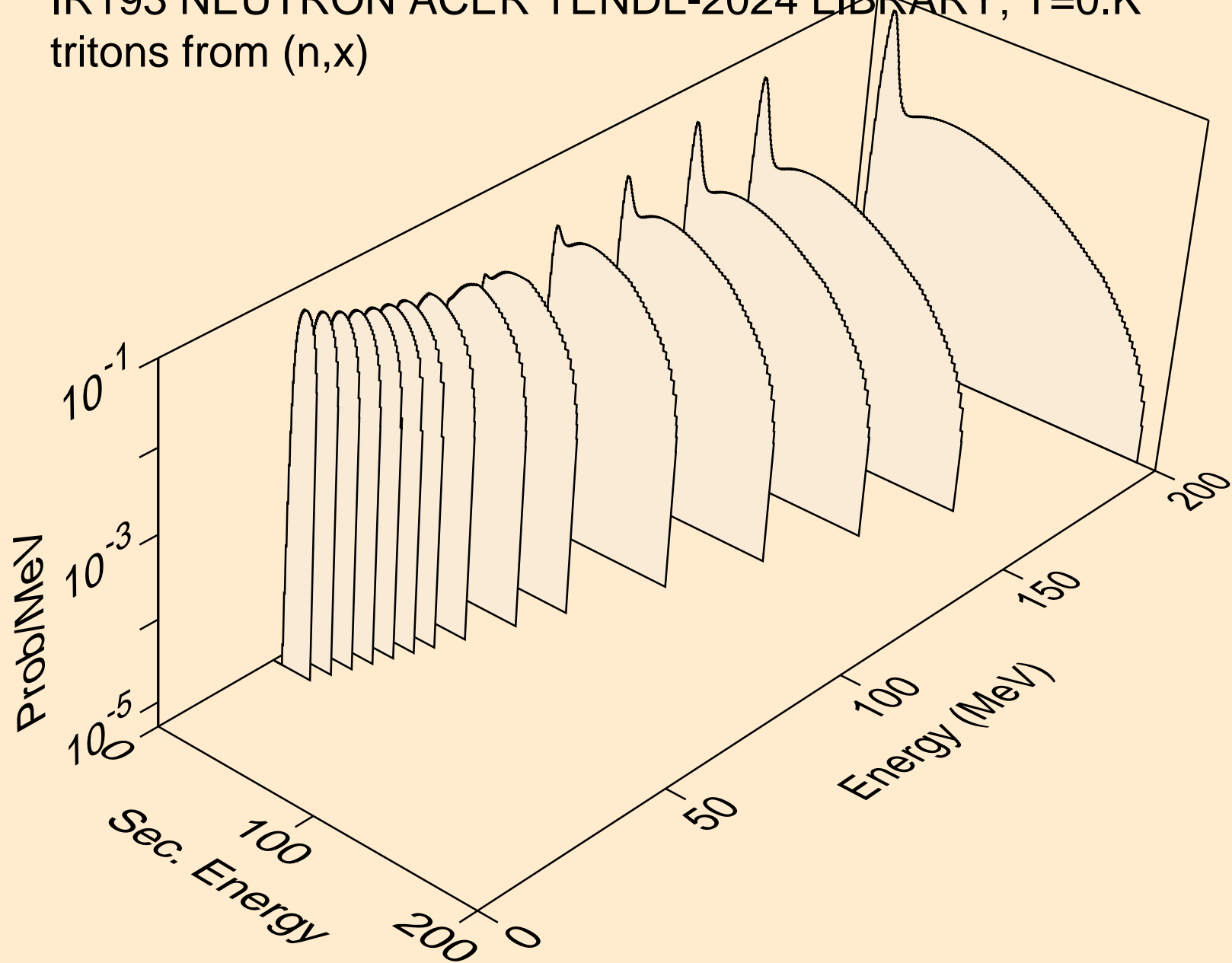
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deuterons from (n,n\*)d



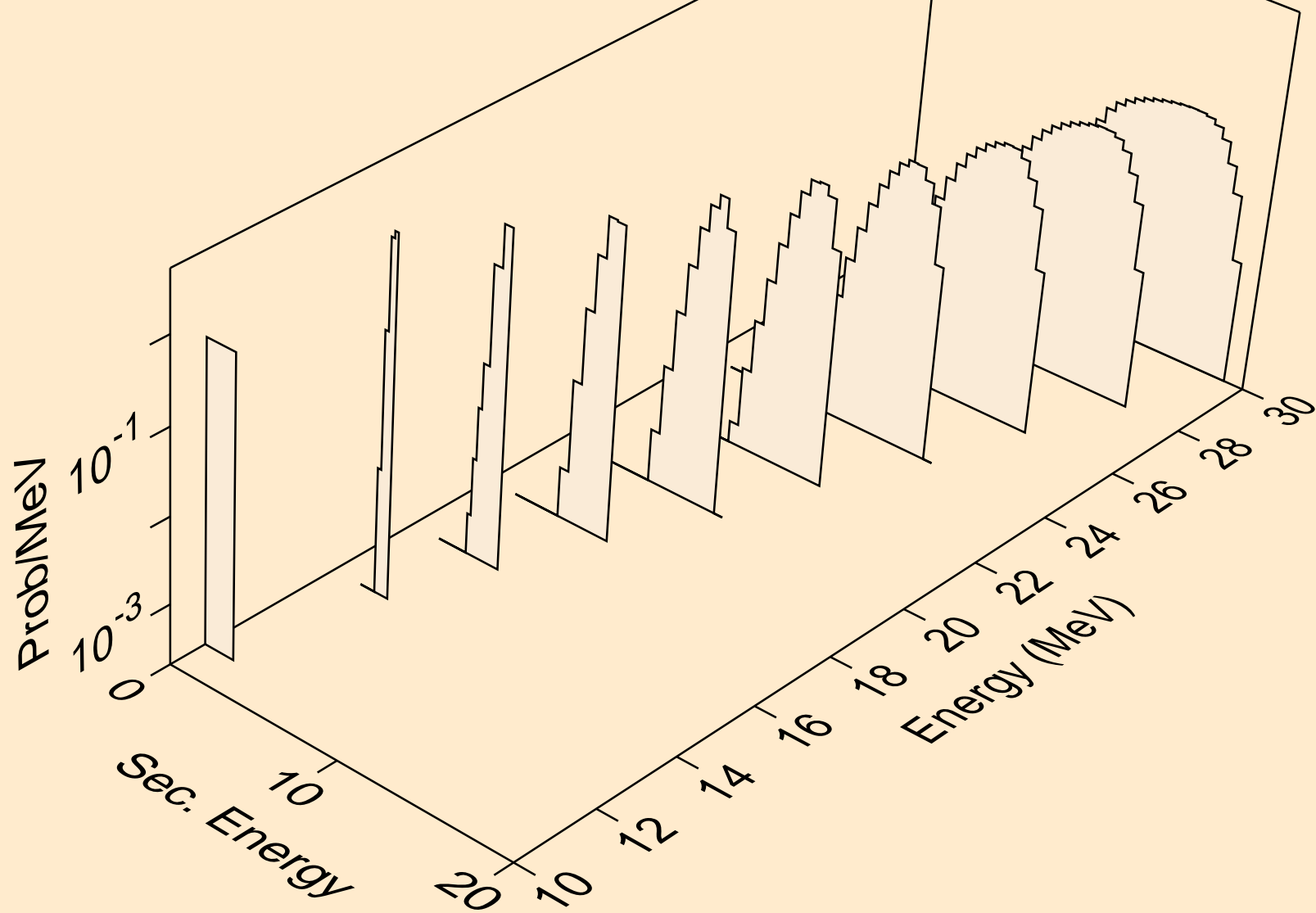
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deuterons from (n,d)



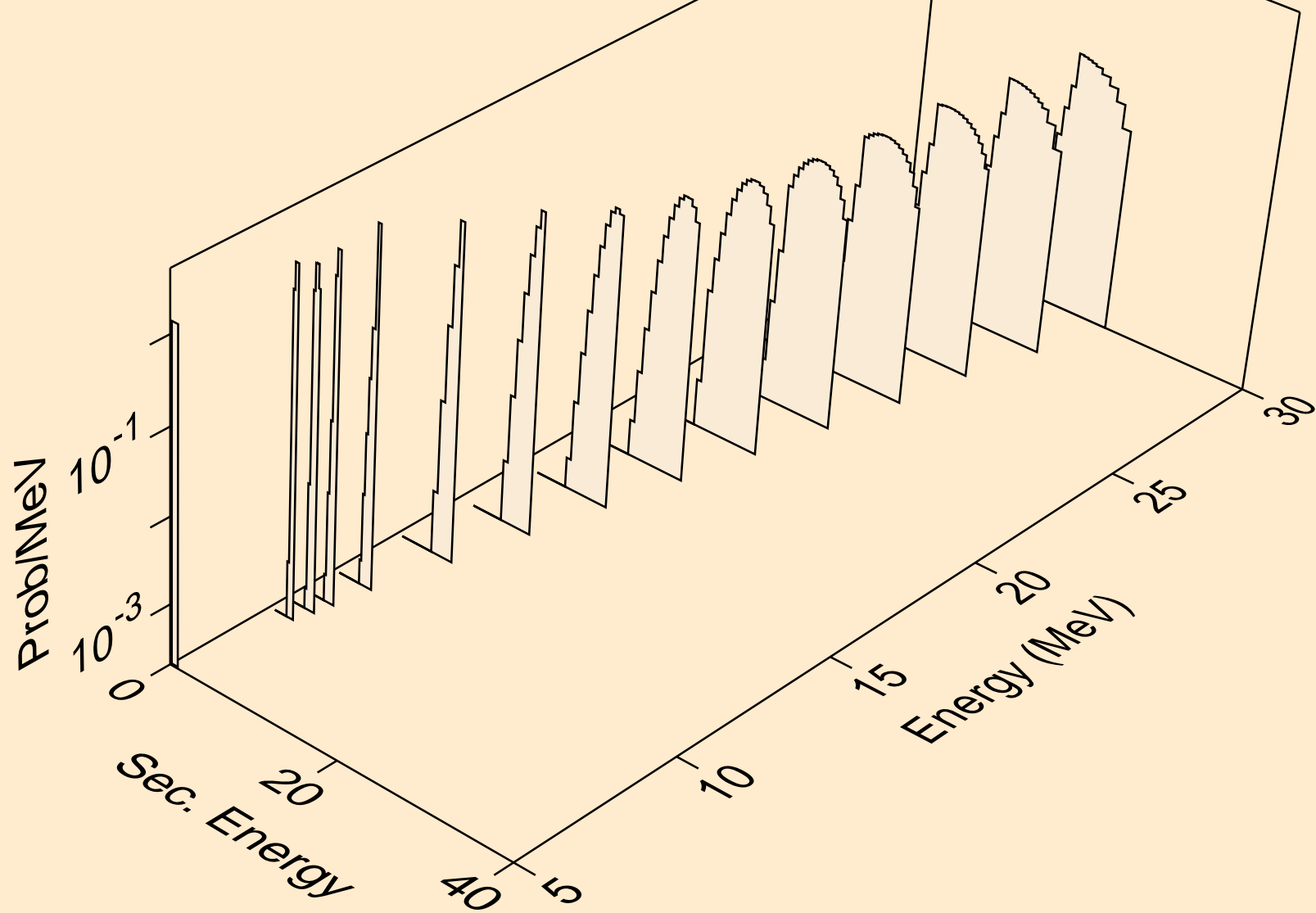
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tritons from (n,x)



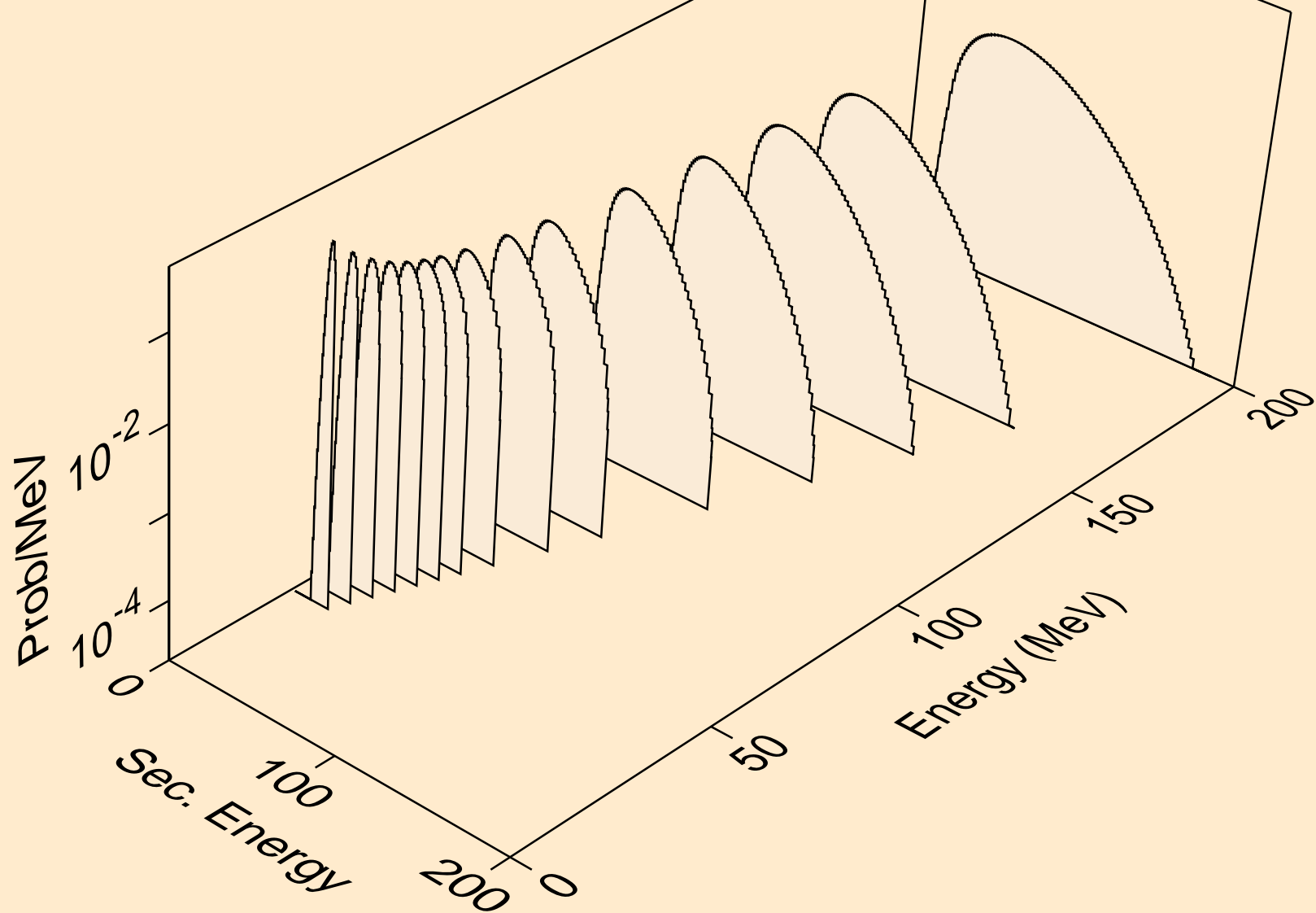
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tritons from (n,n\*)t



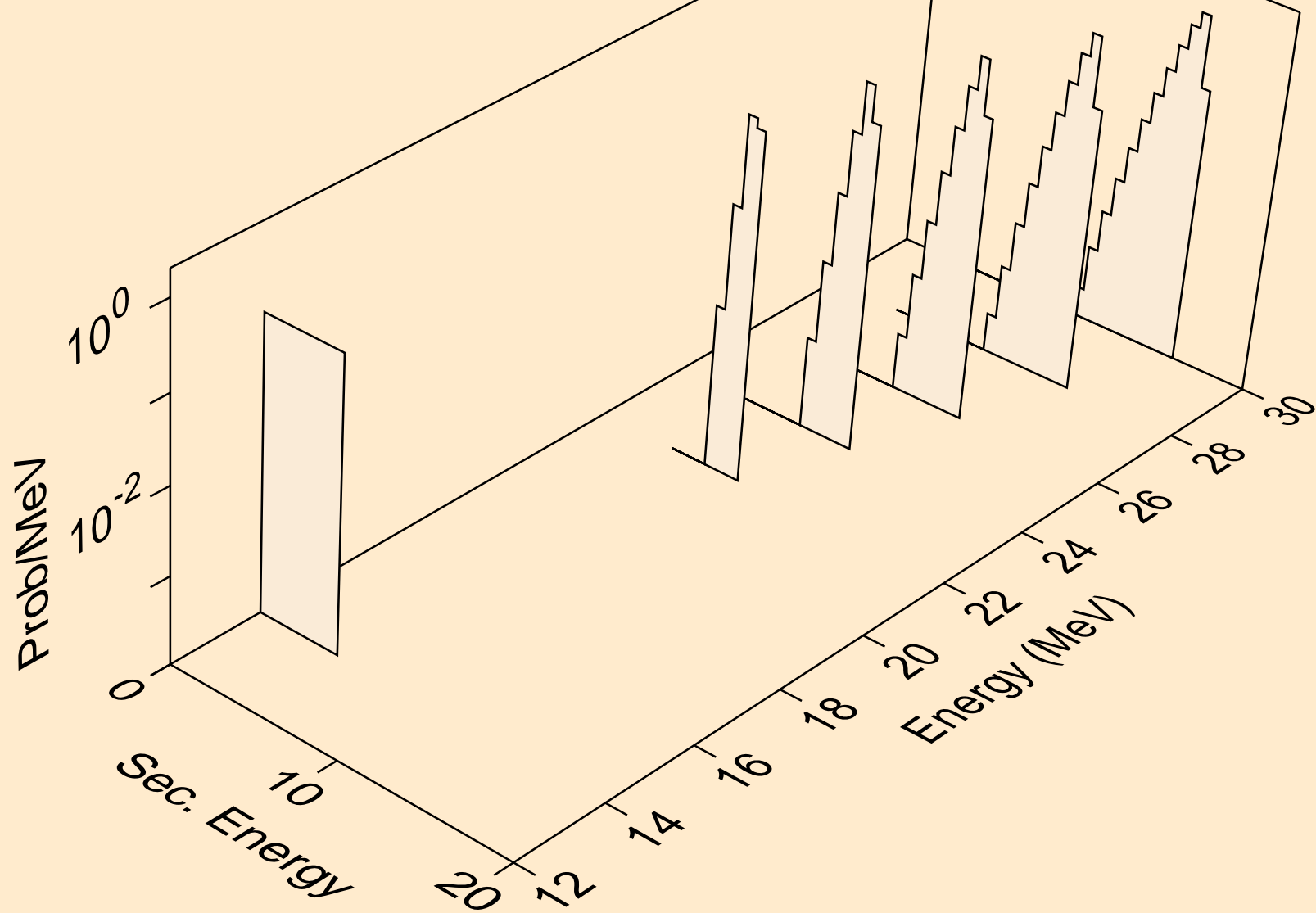
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tritons from (n,t)



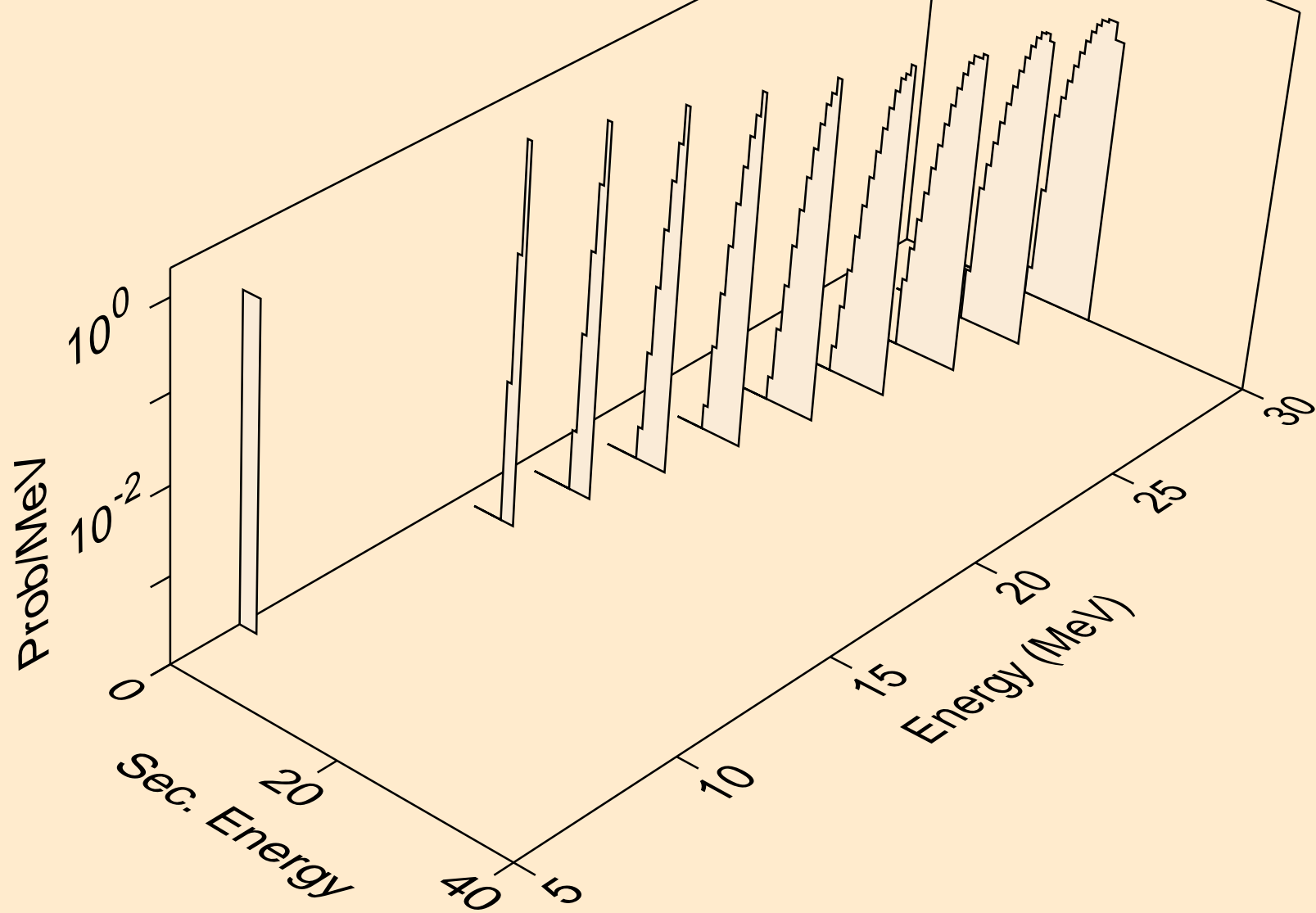
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he3s from (n,x)



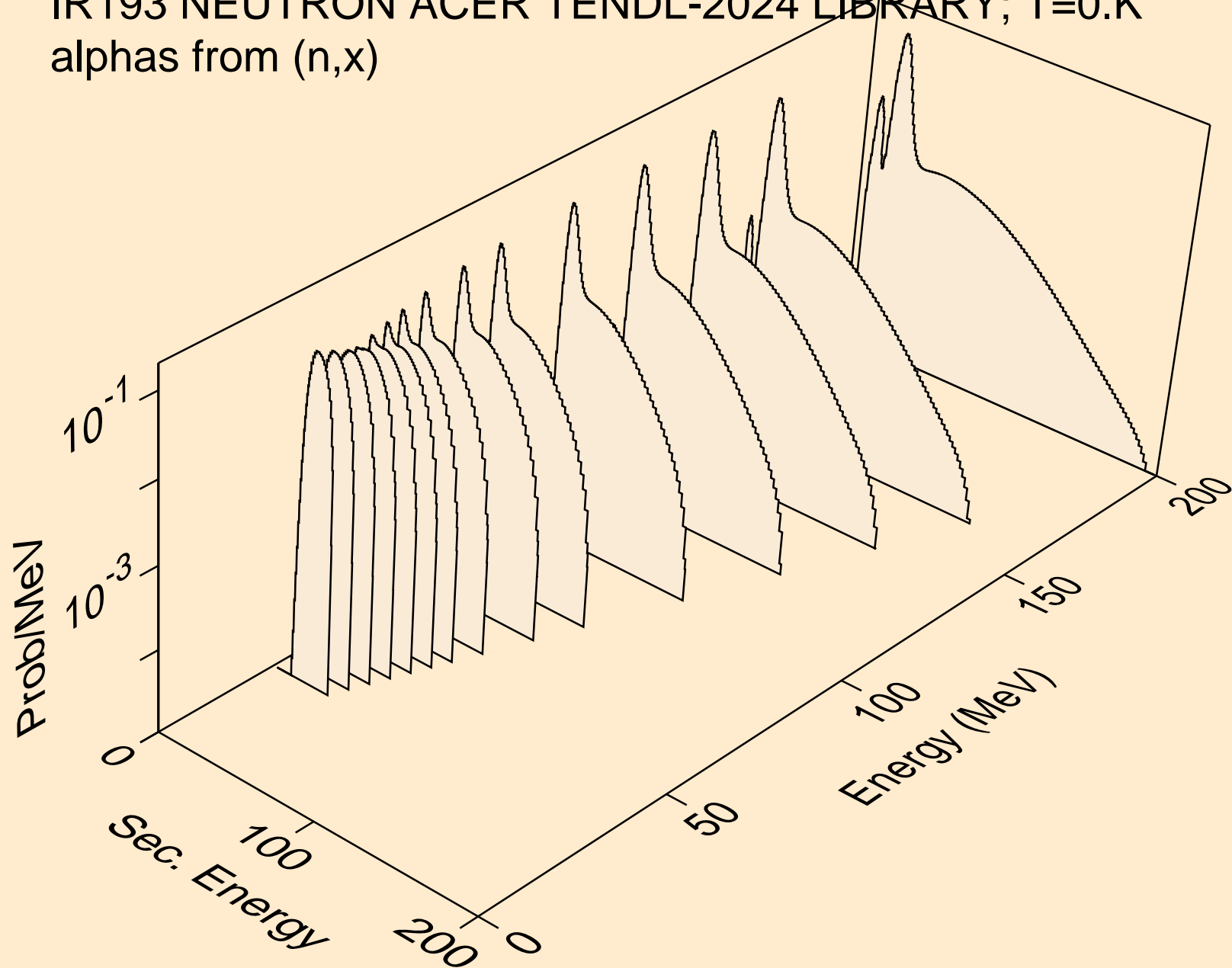
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,n\*)he3



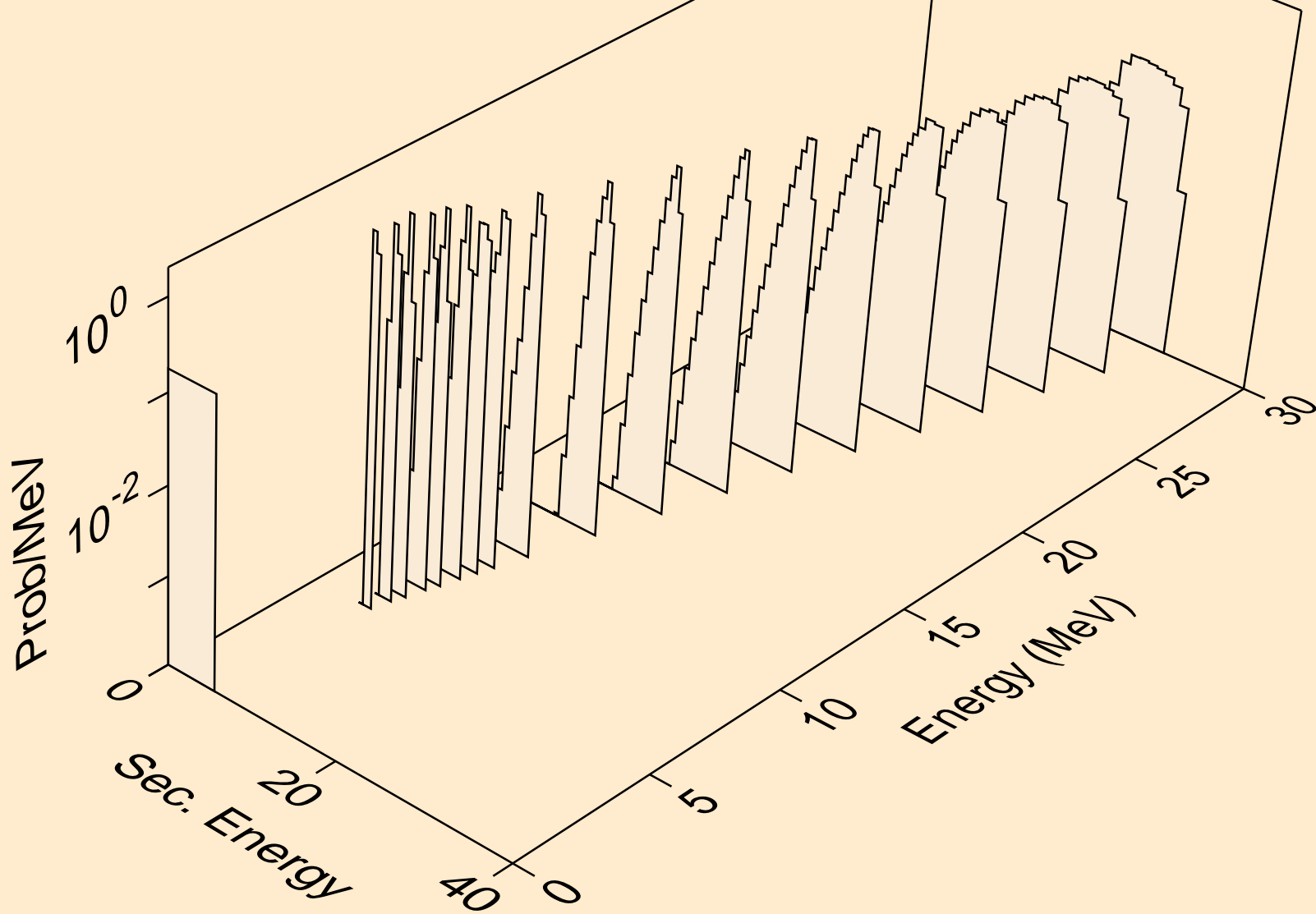
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he3s from (n,he3)



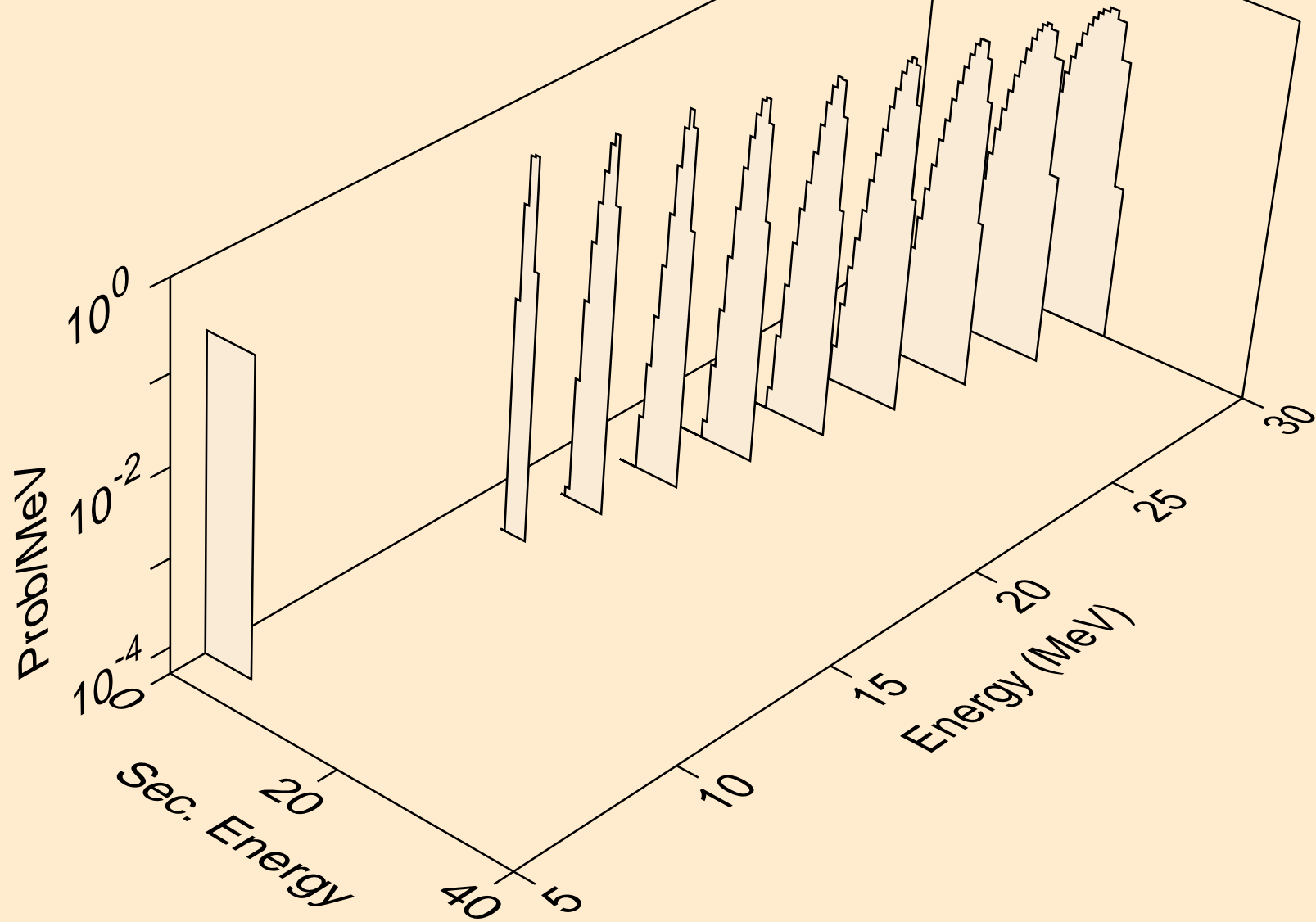
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)



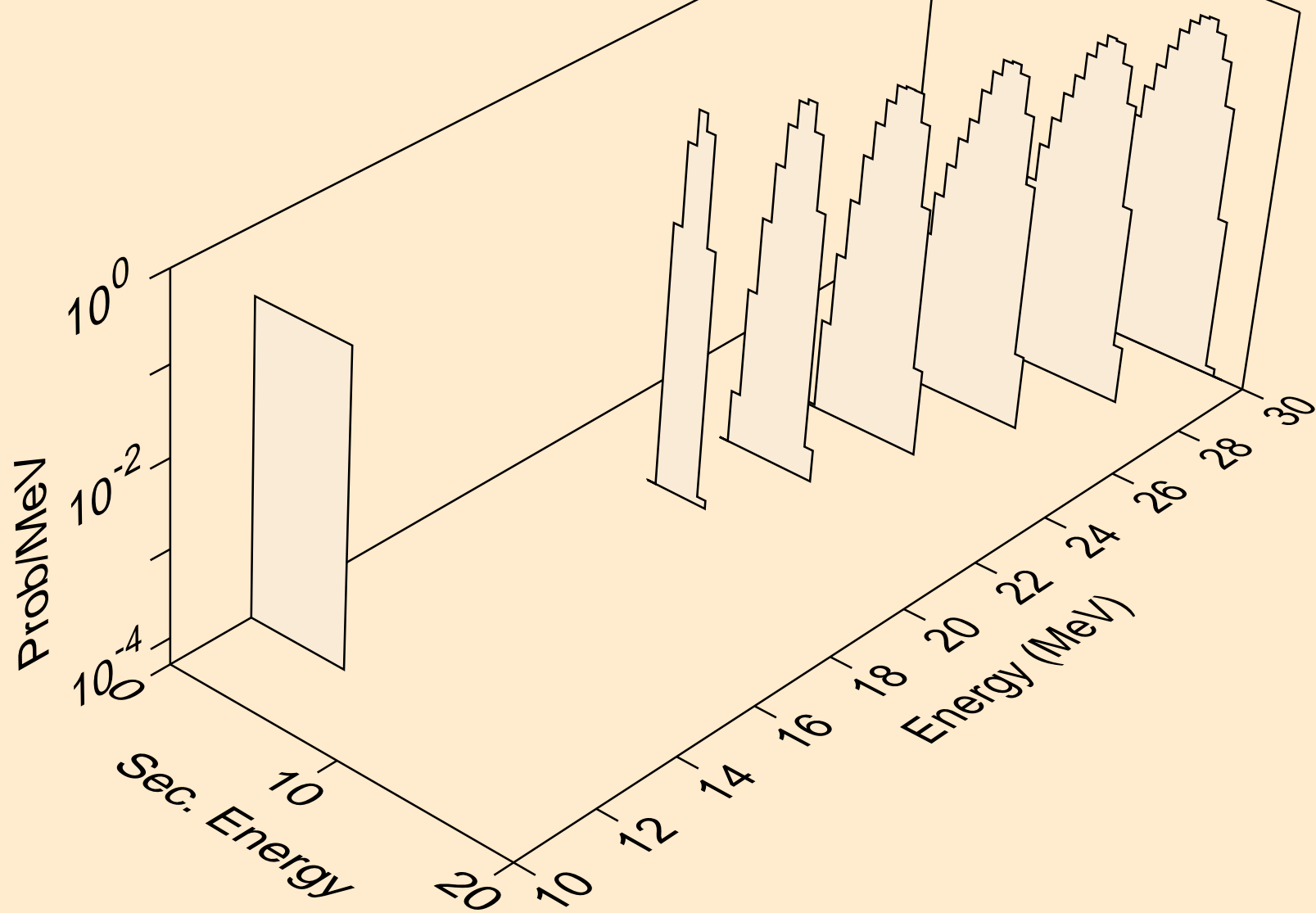
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alphas from (n,n\*)a



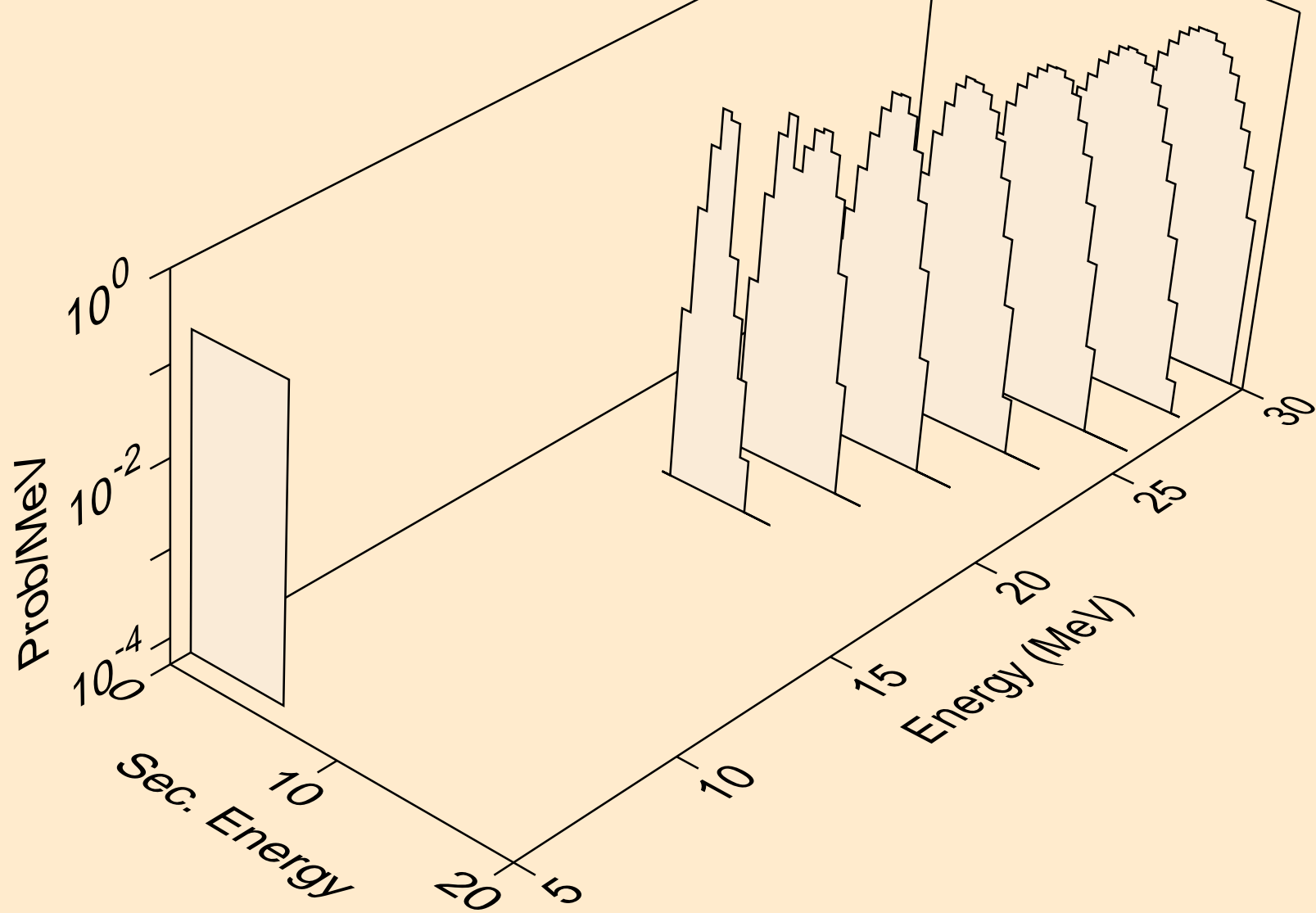
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alphas from (n,2n)a



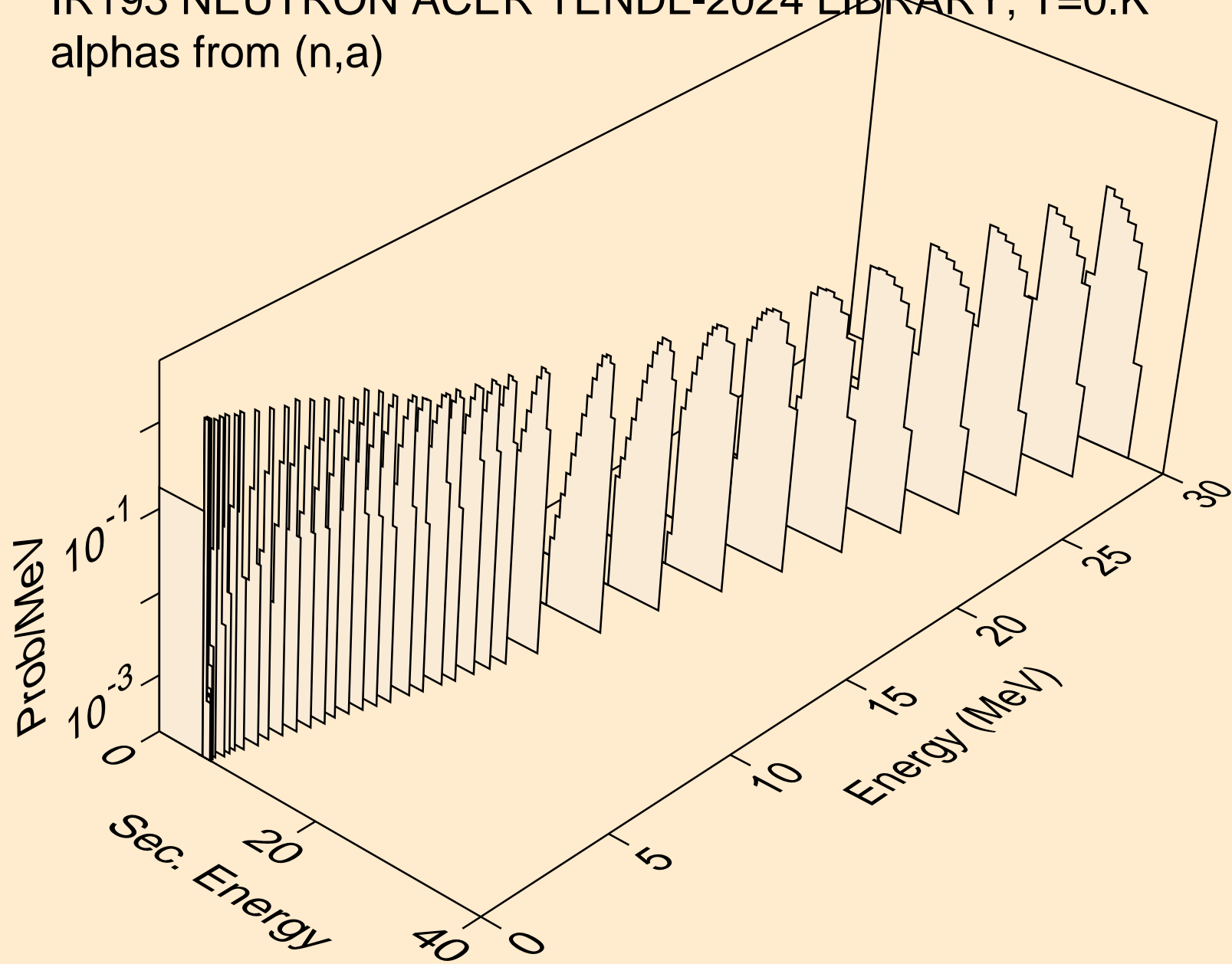
IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3n)a



IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,npa)



IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)



IR193 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)

