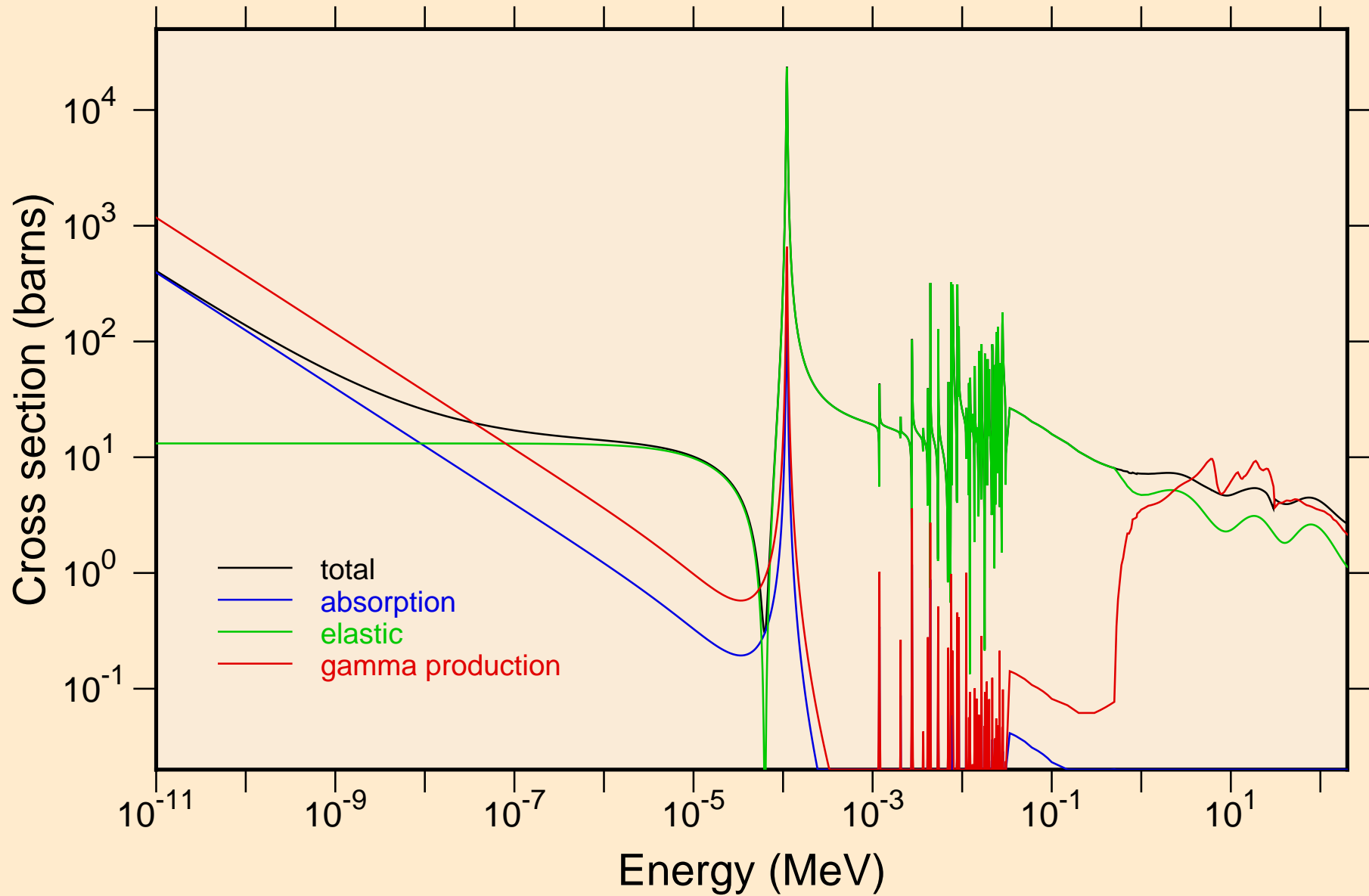
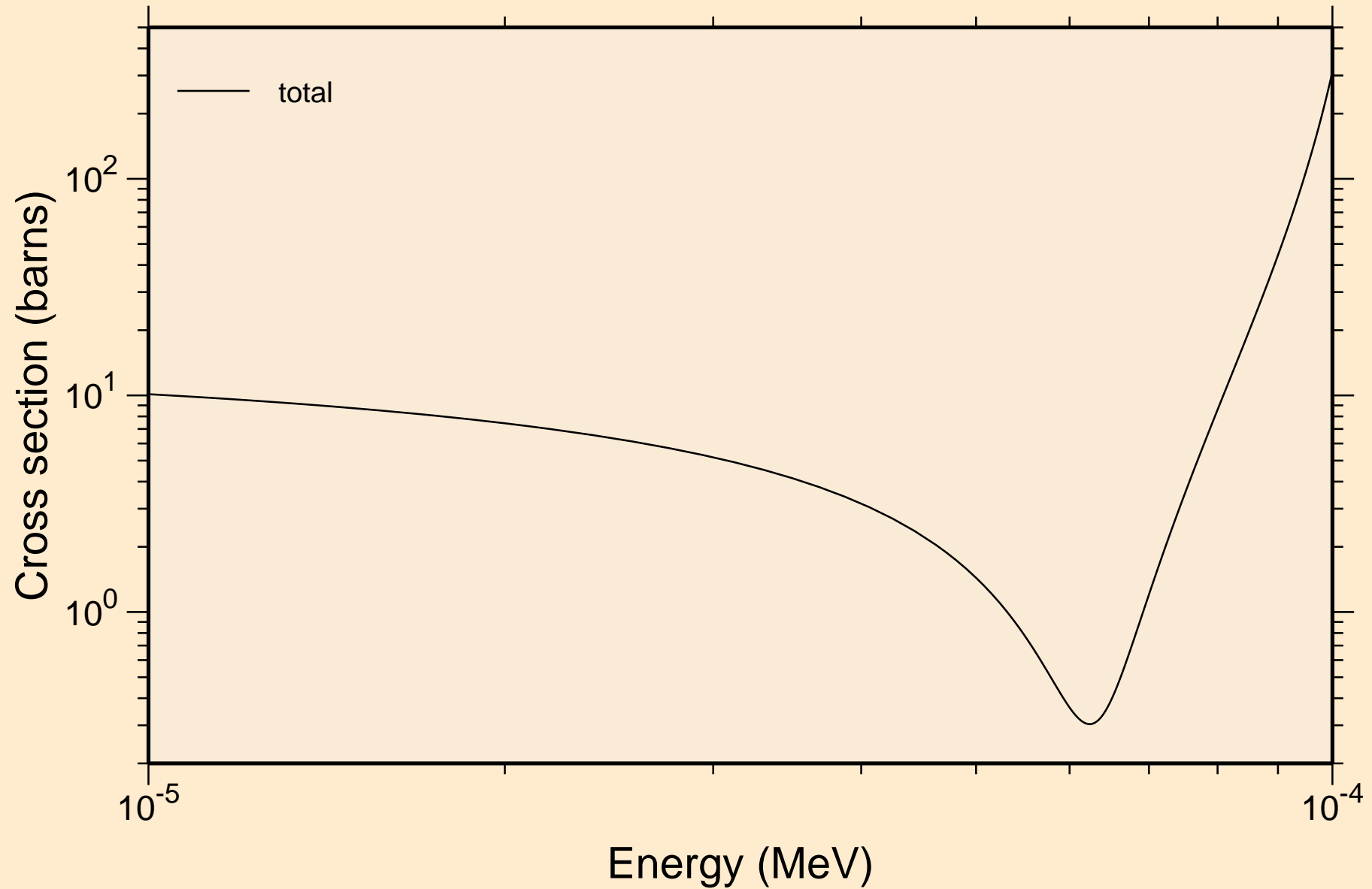


# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

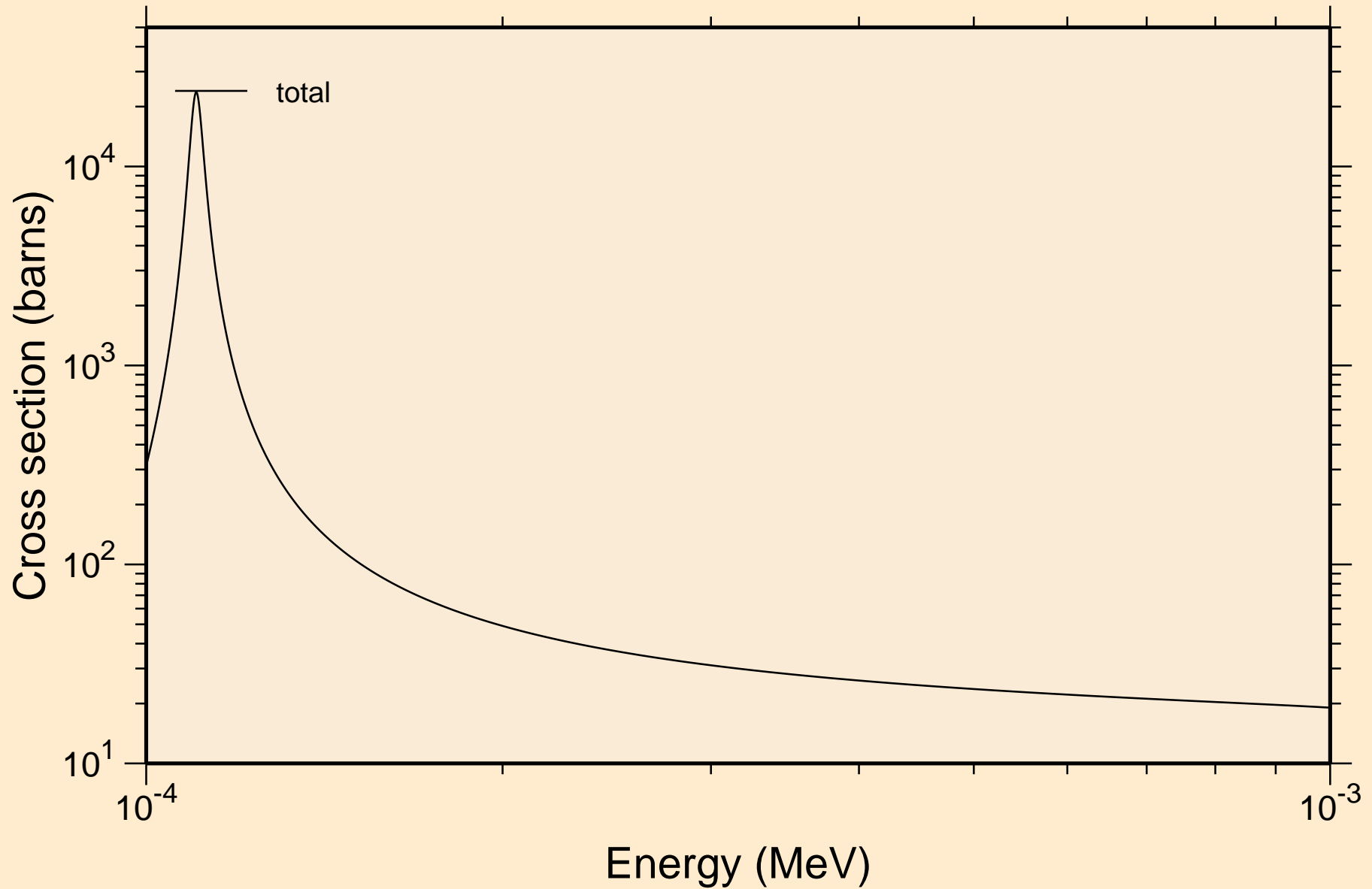
## Principal cross sections



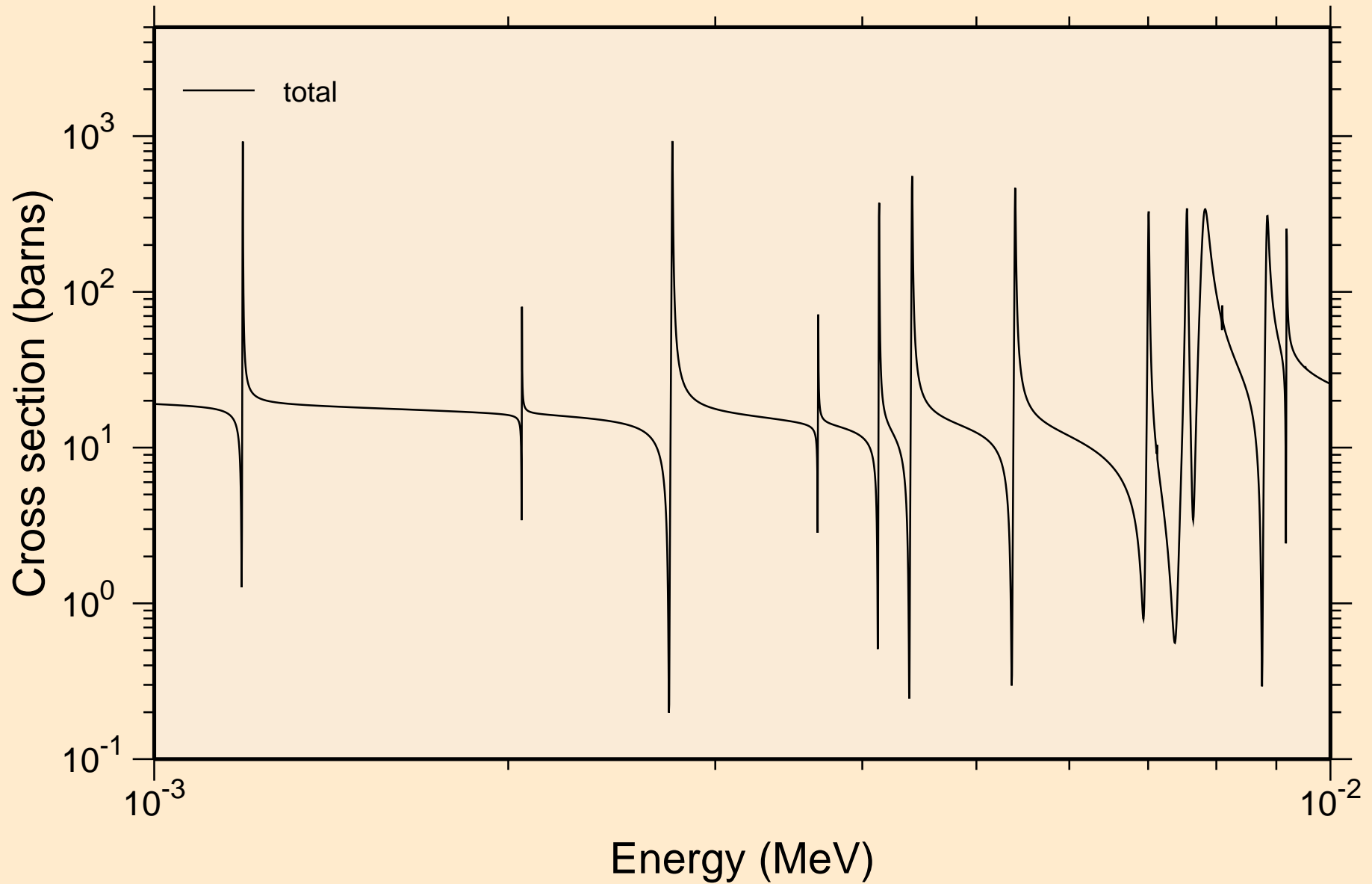
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



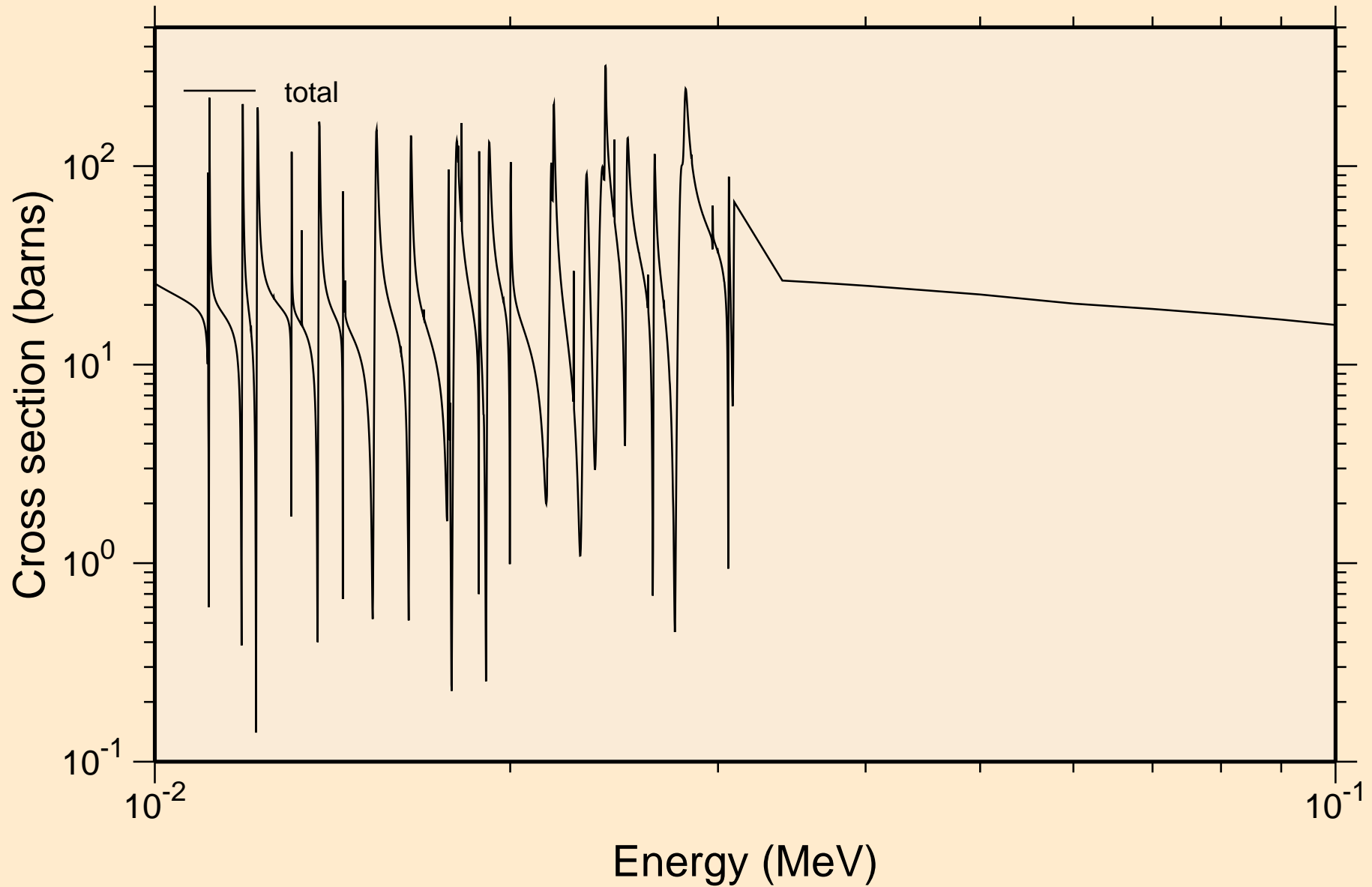
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



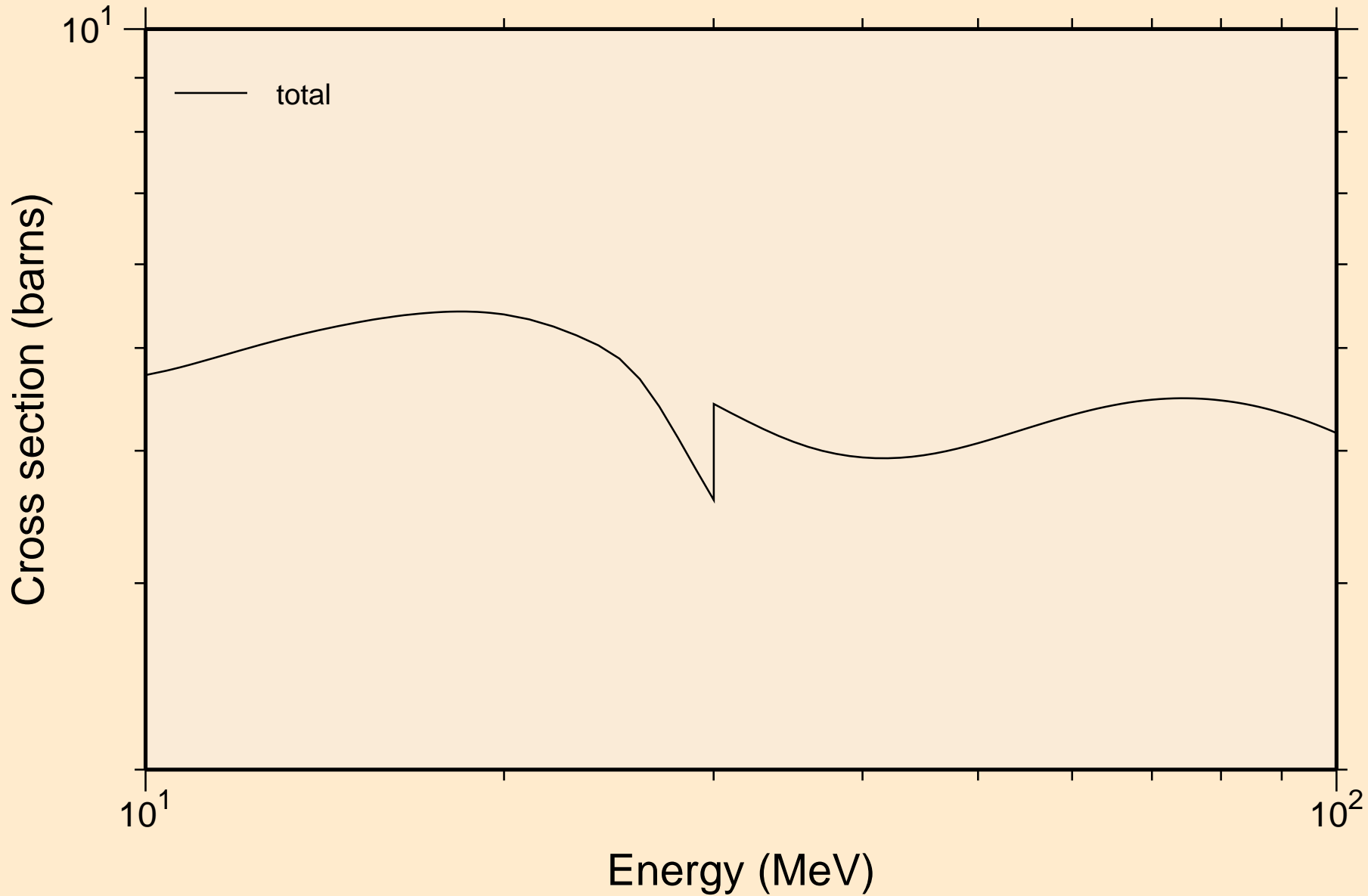
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



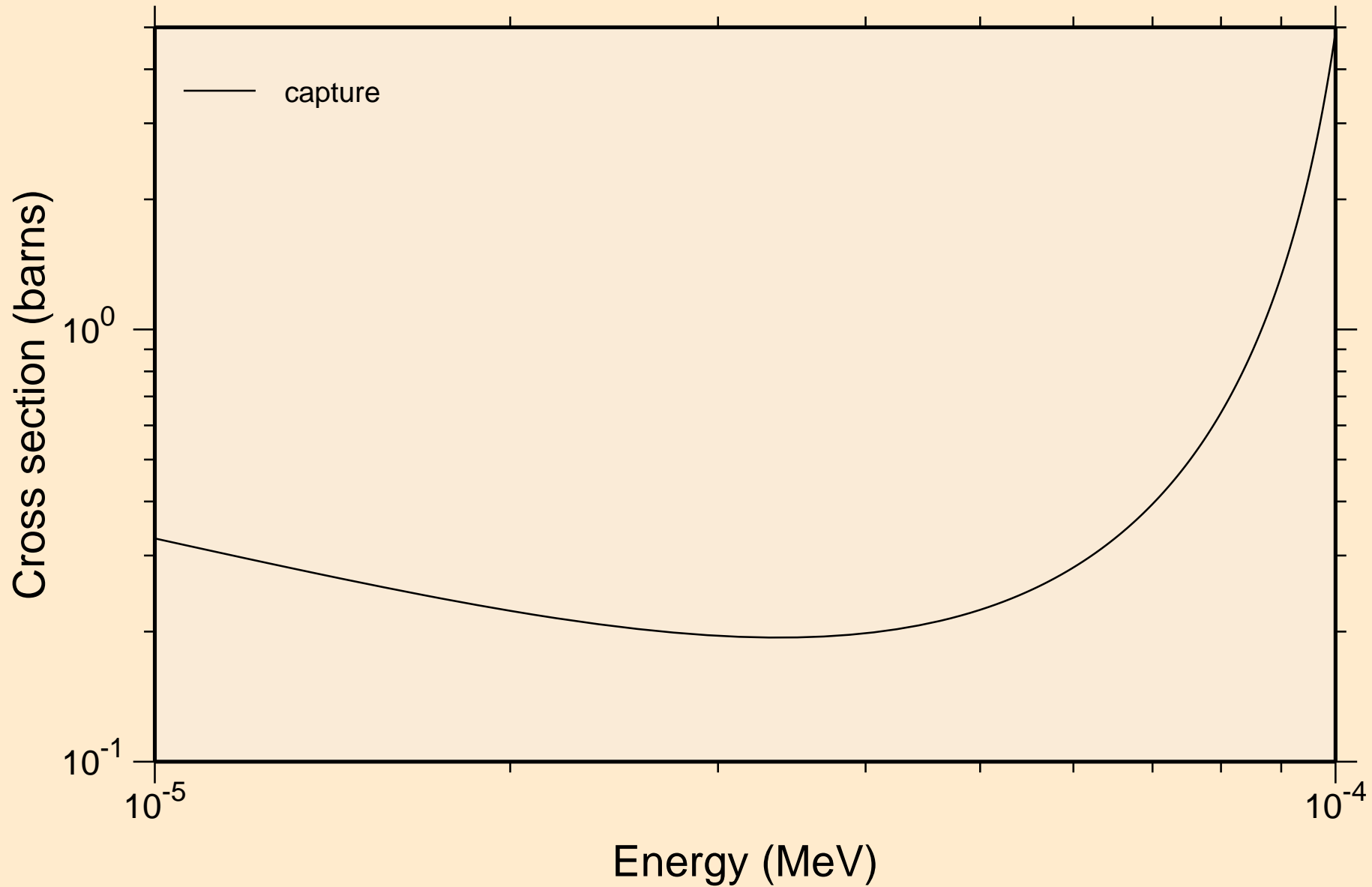
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



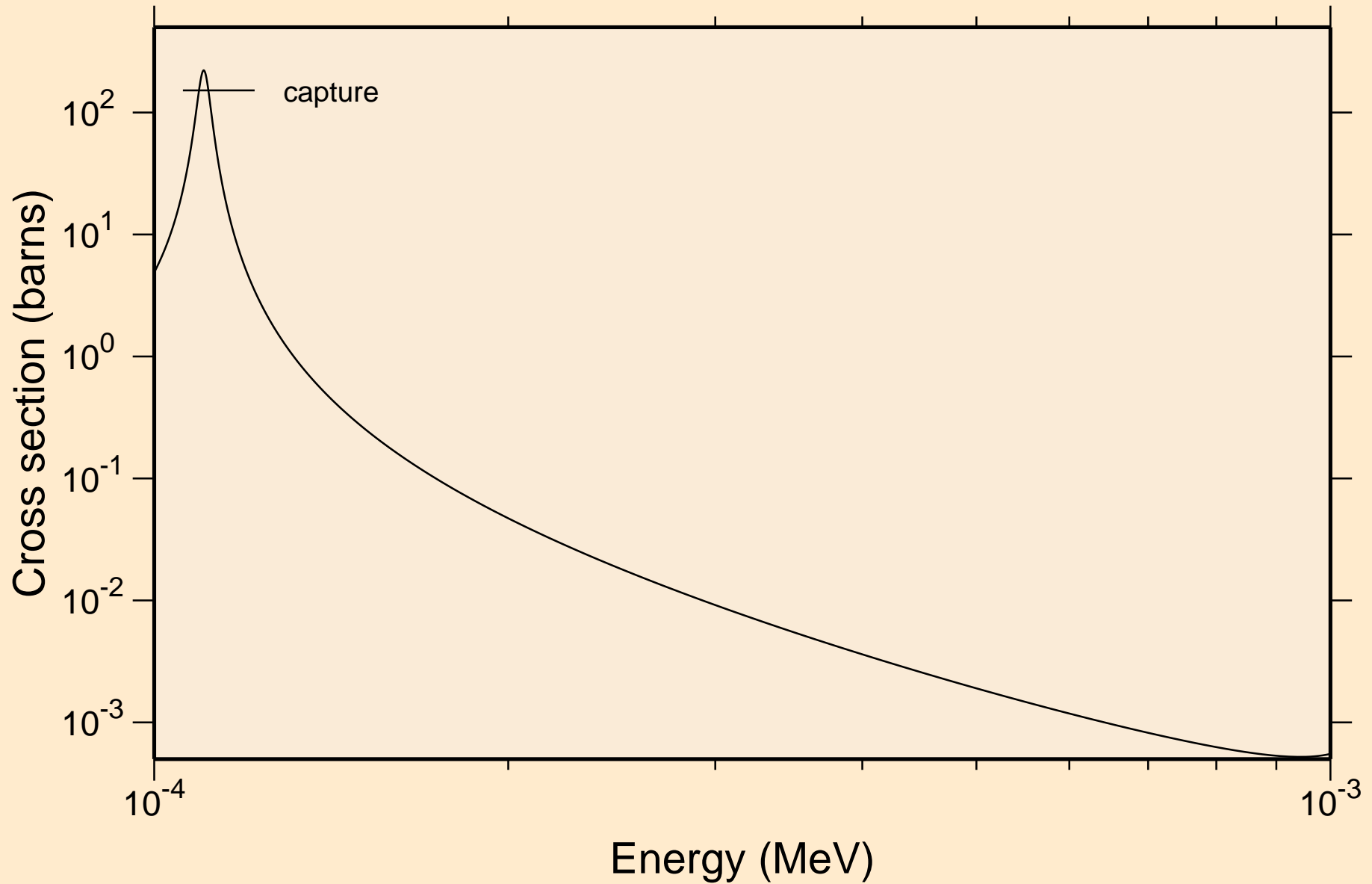
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

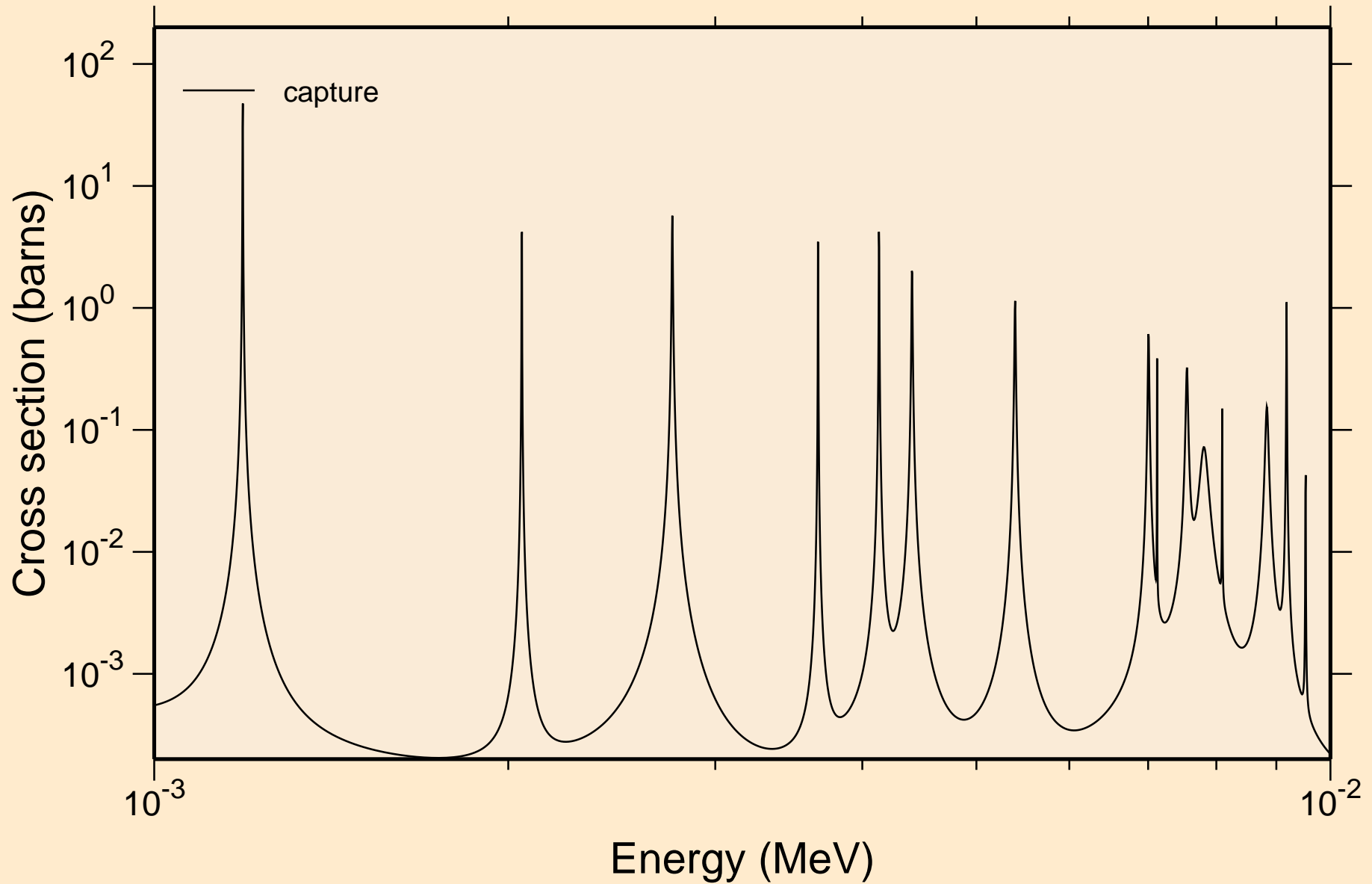


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

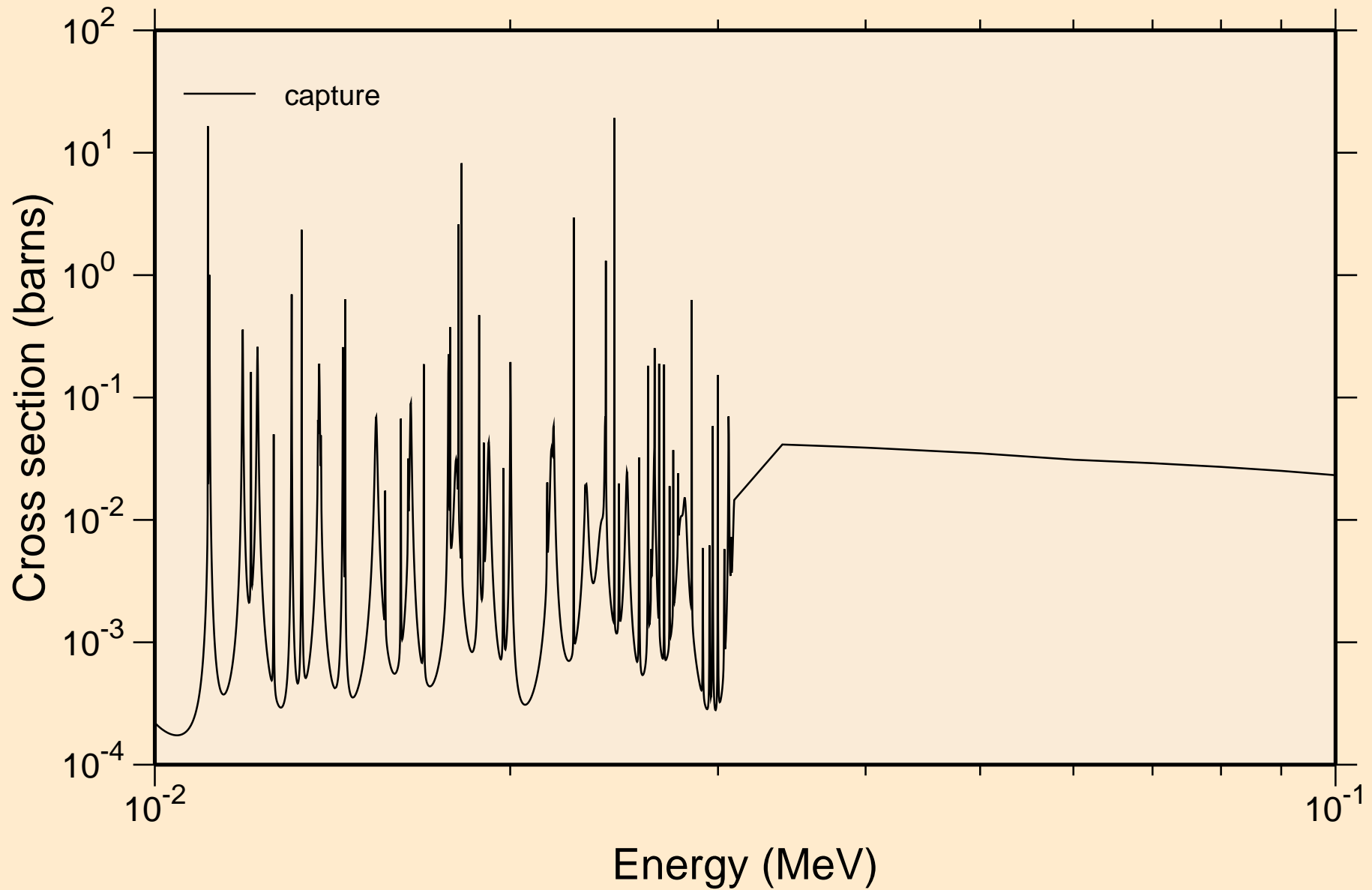




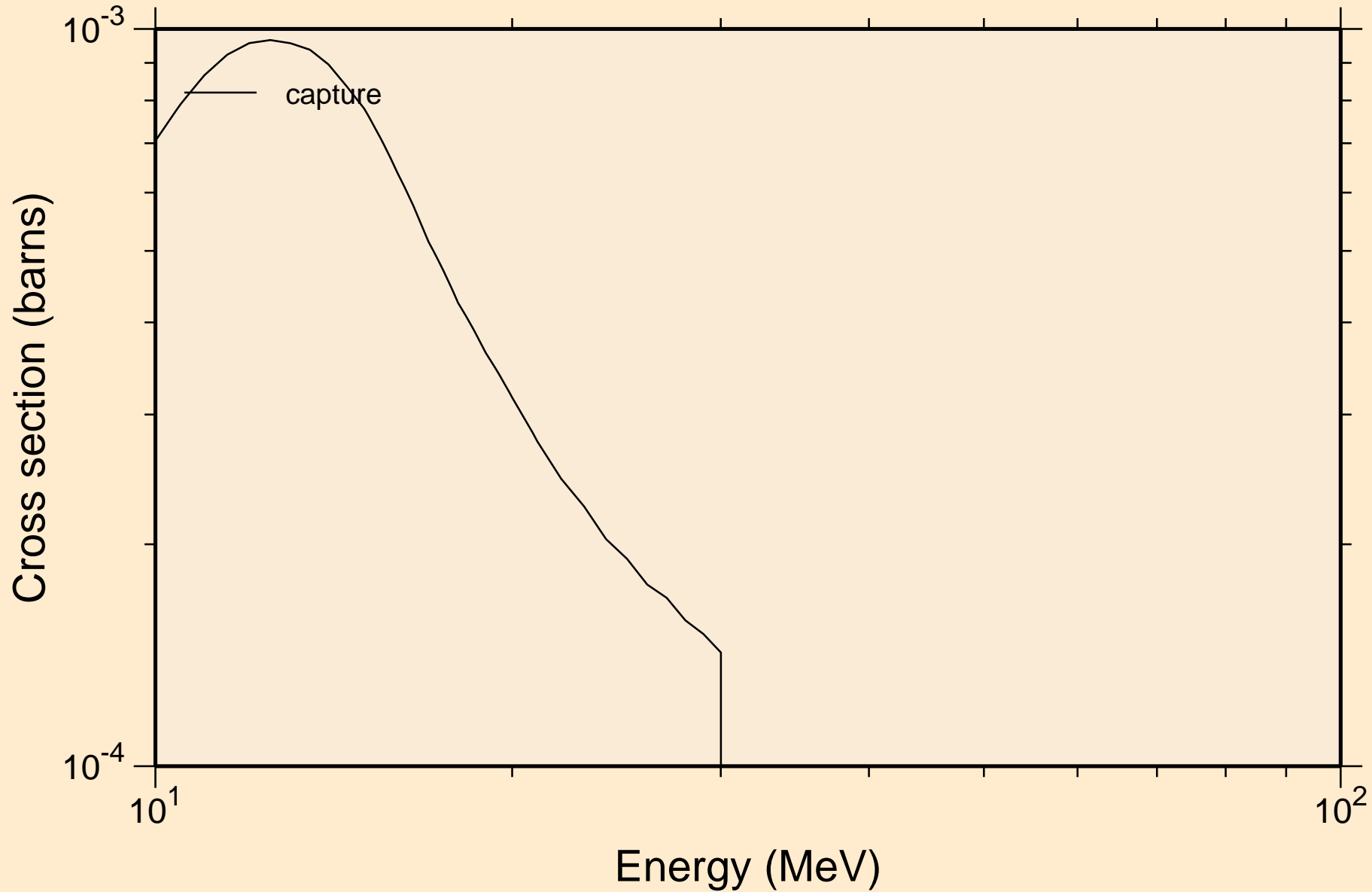
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

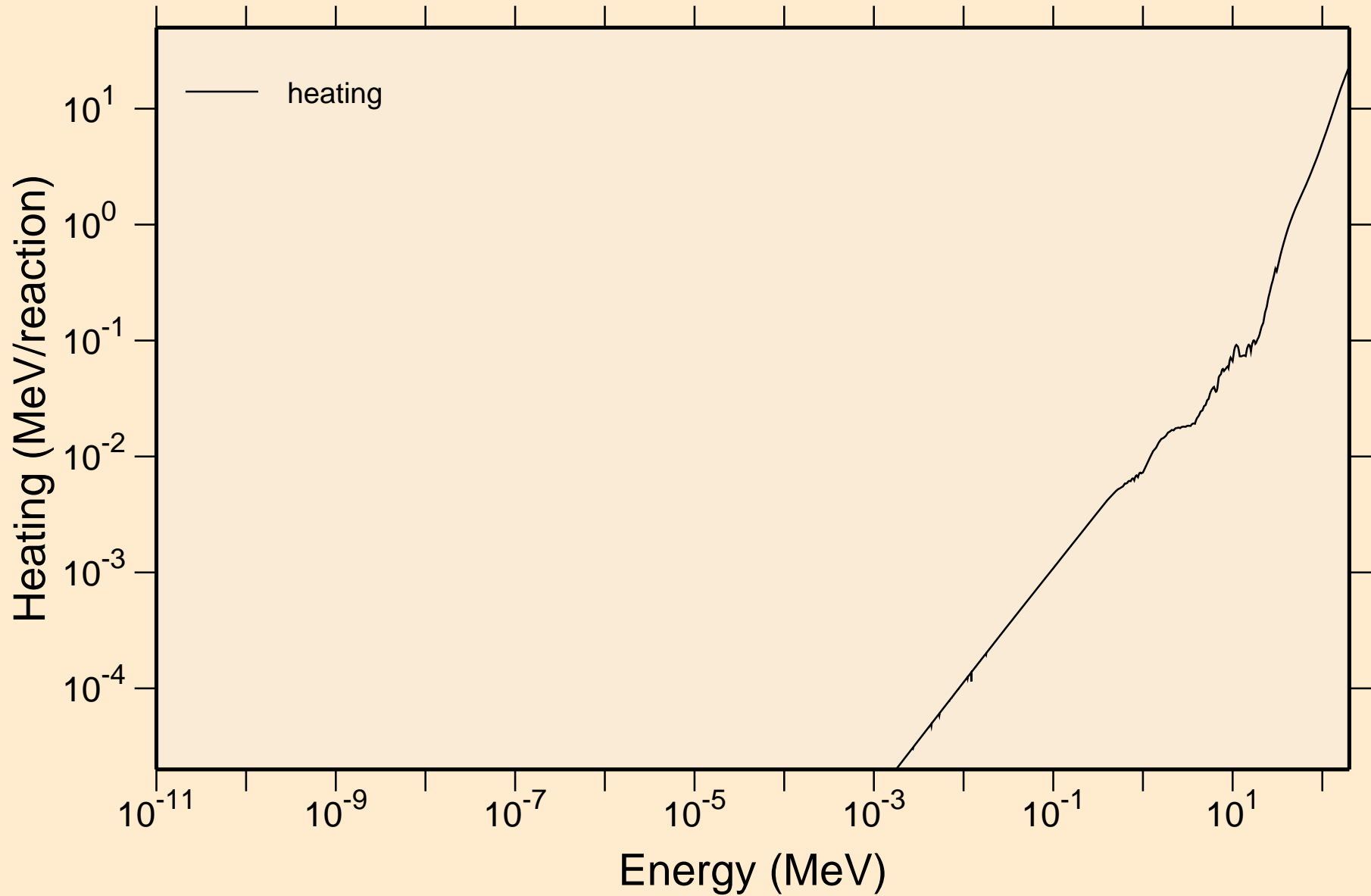


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



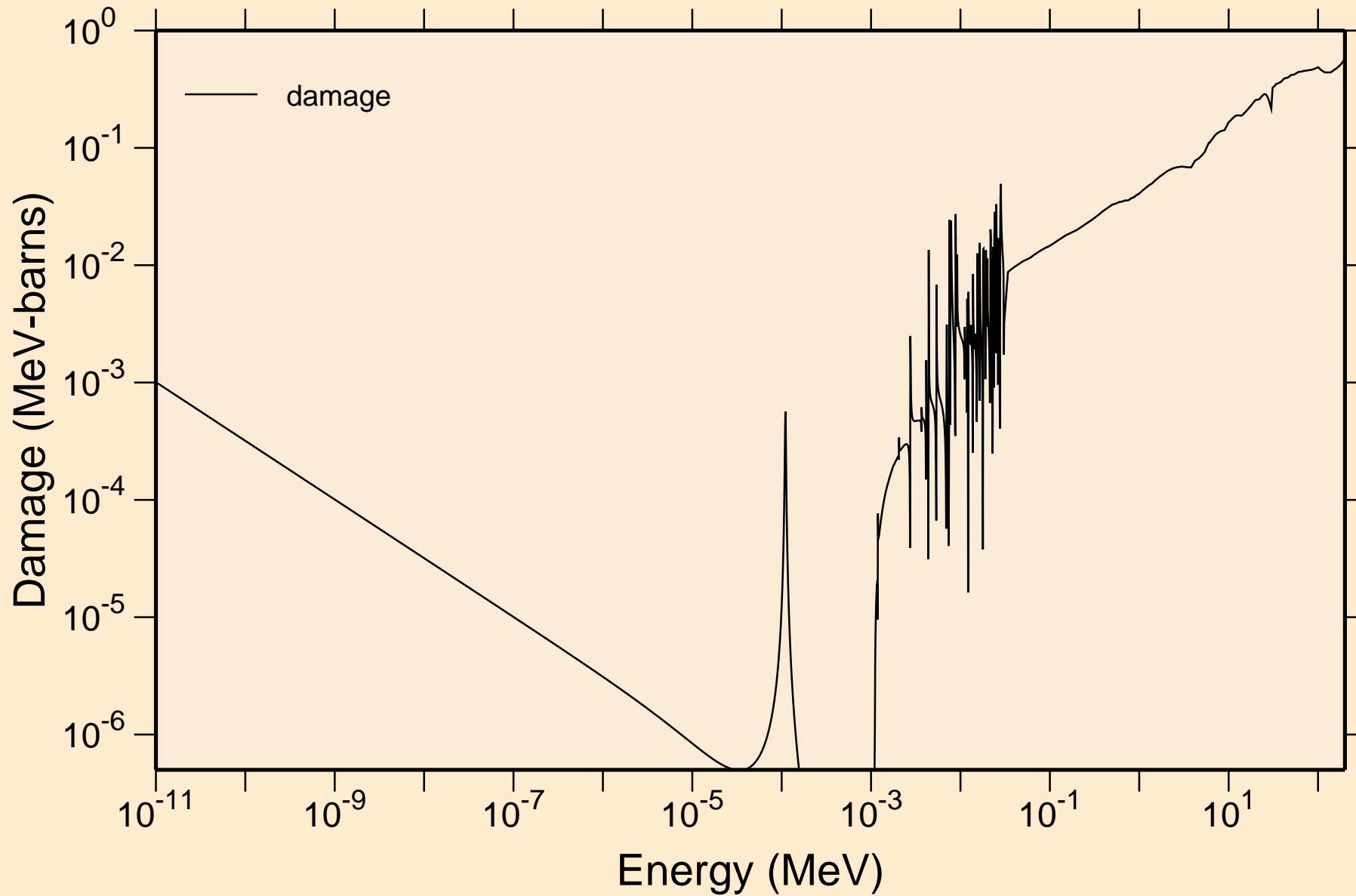
# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



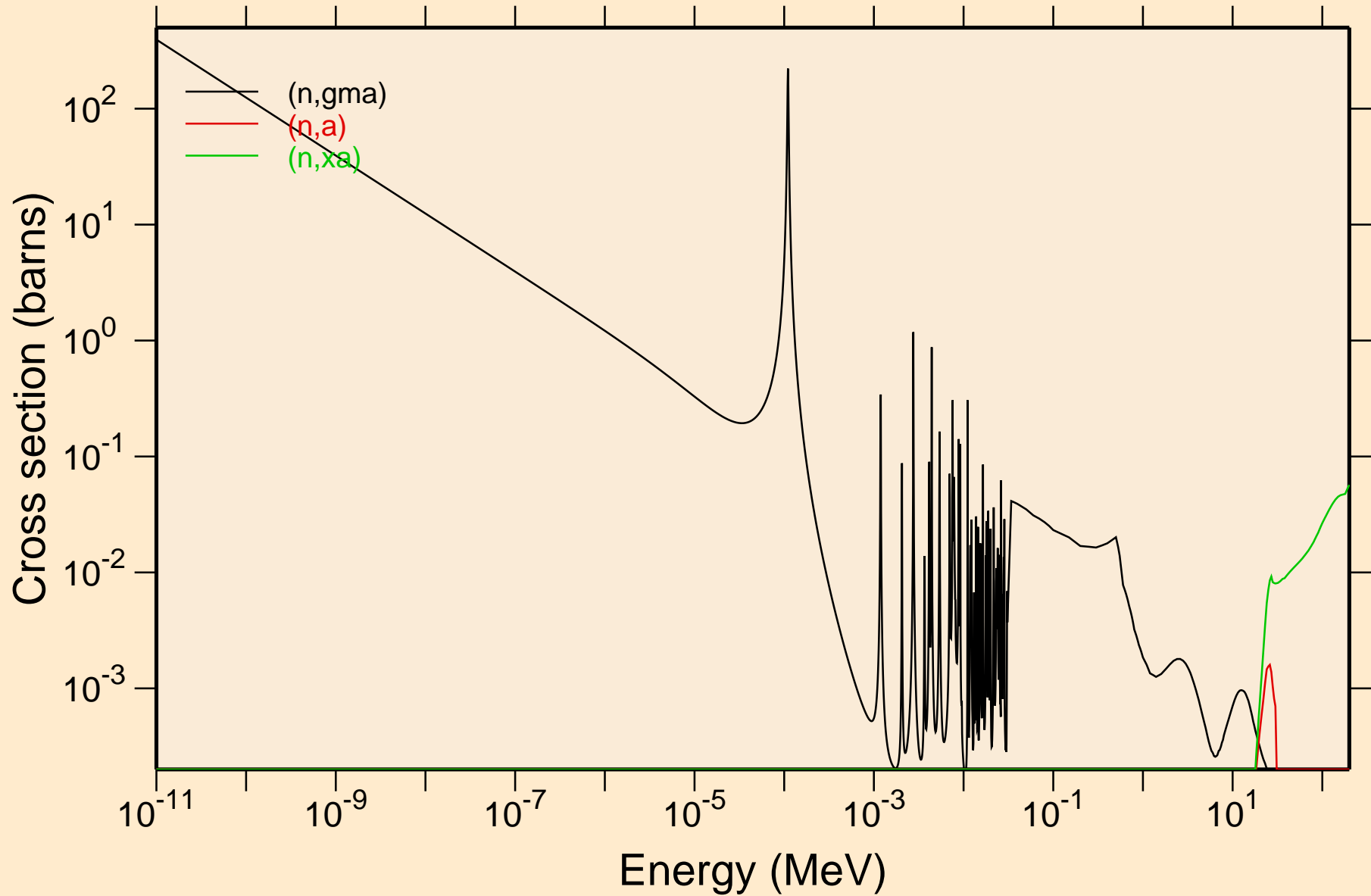
# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



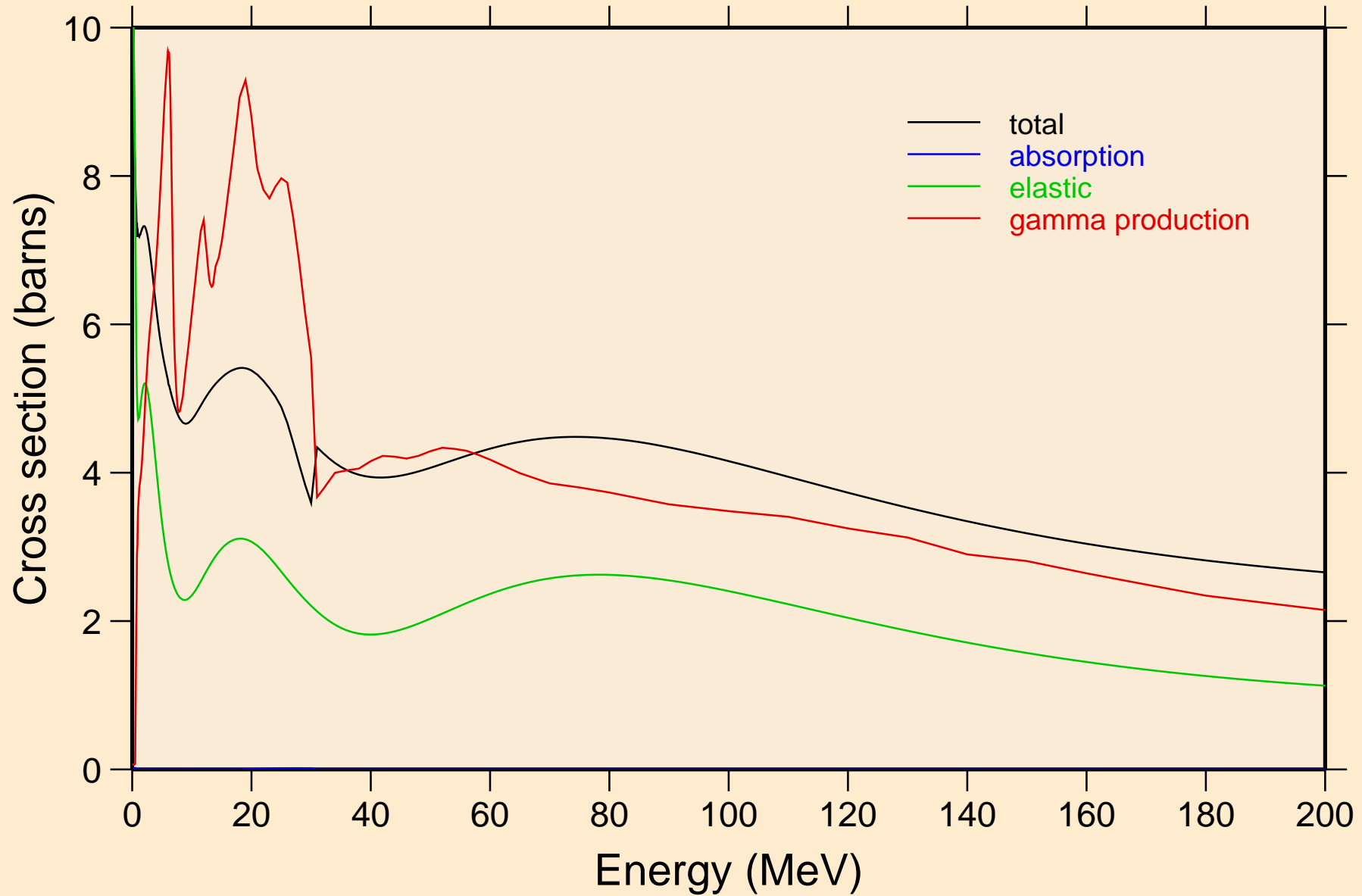
# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



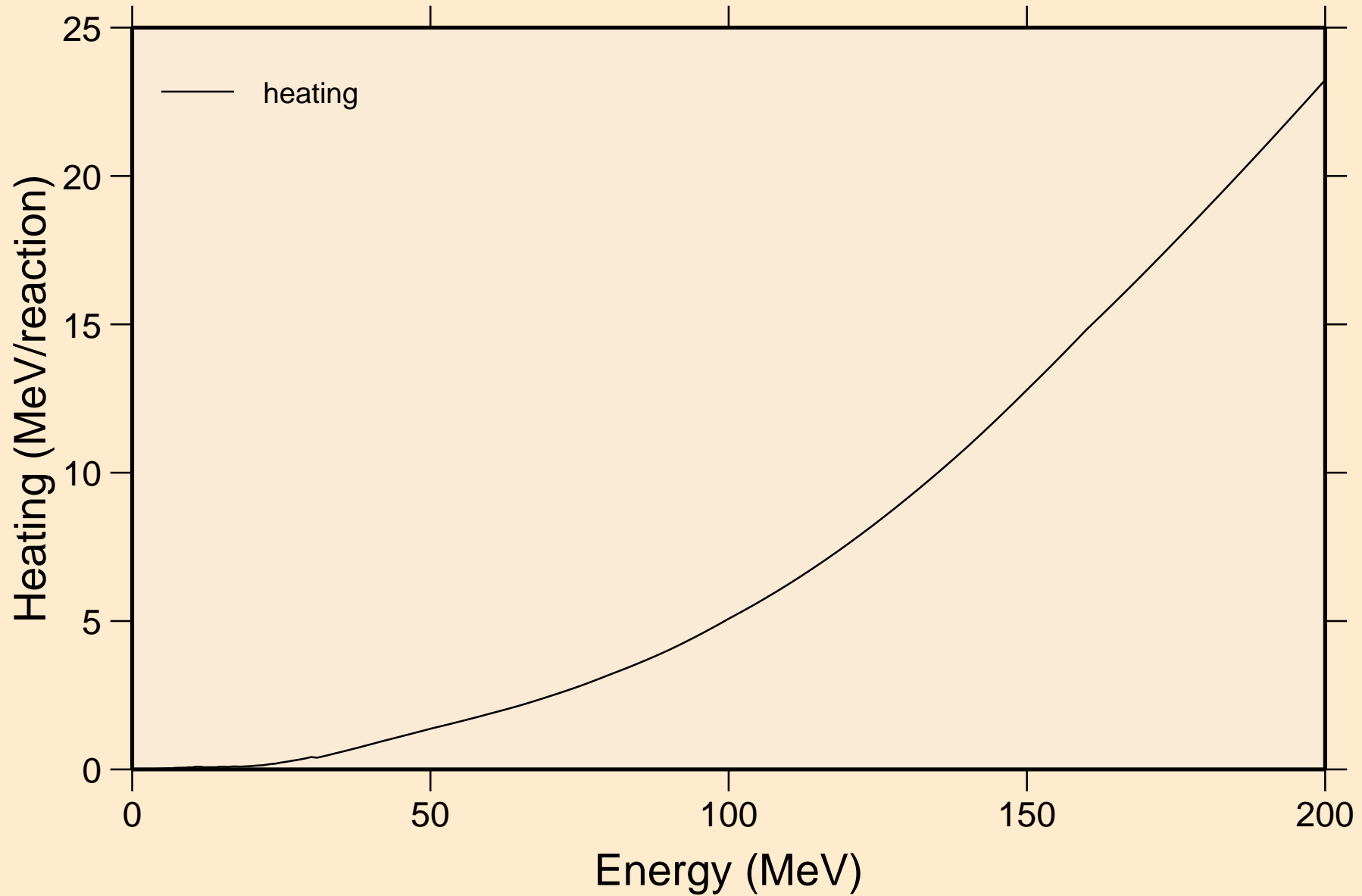
# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



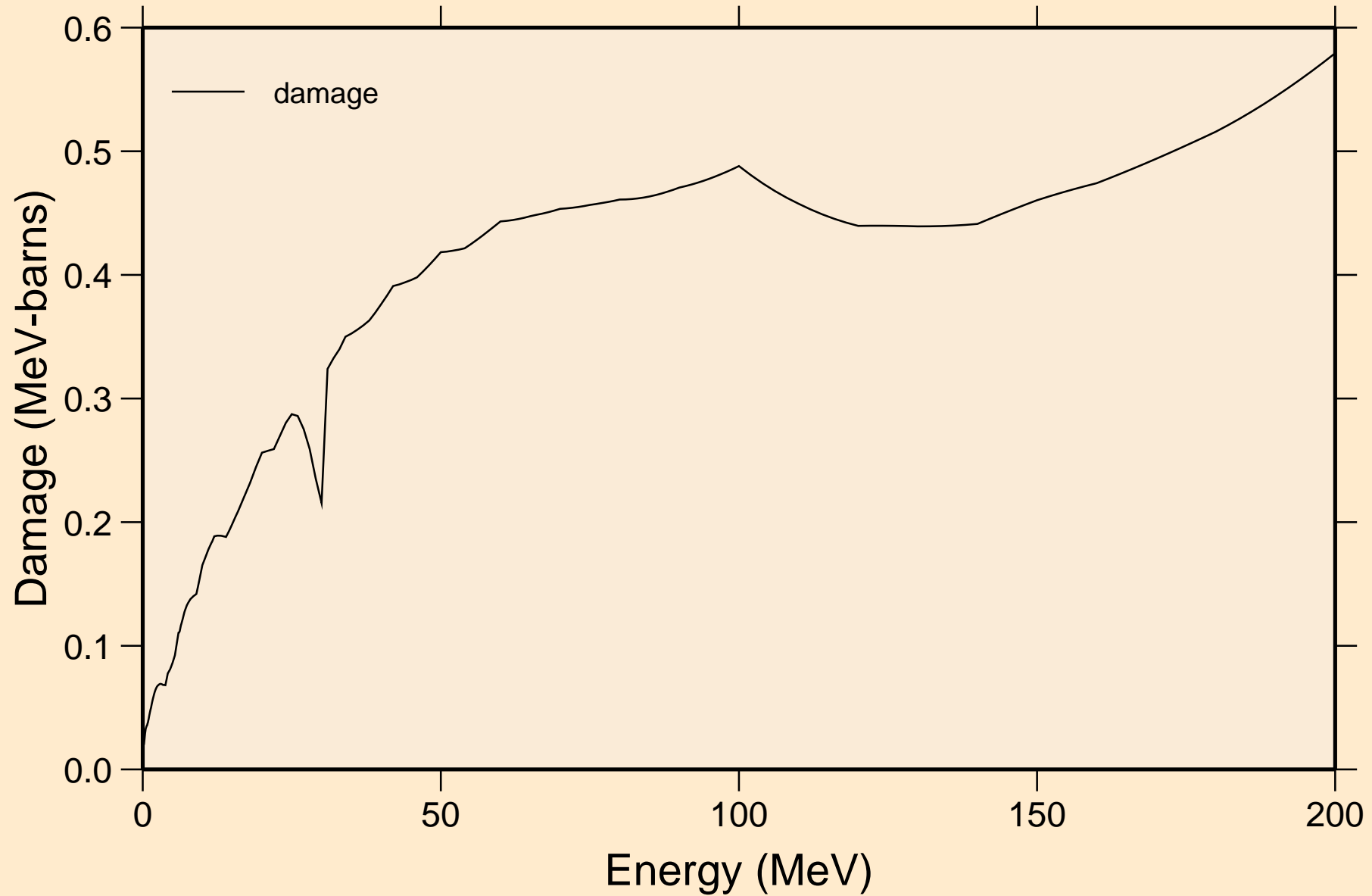
# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



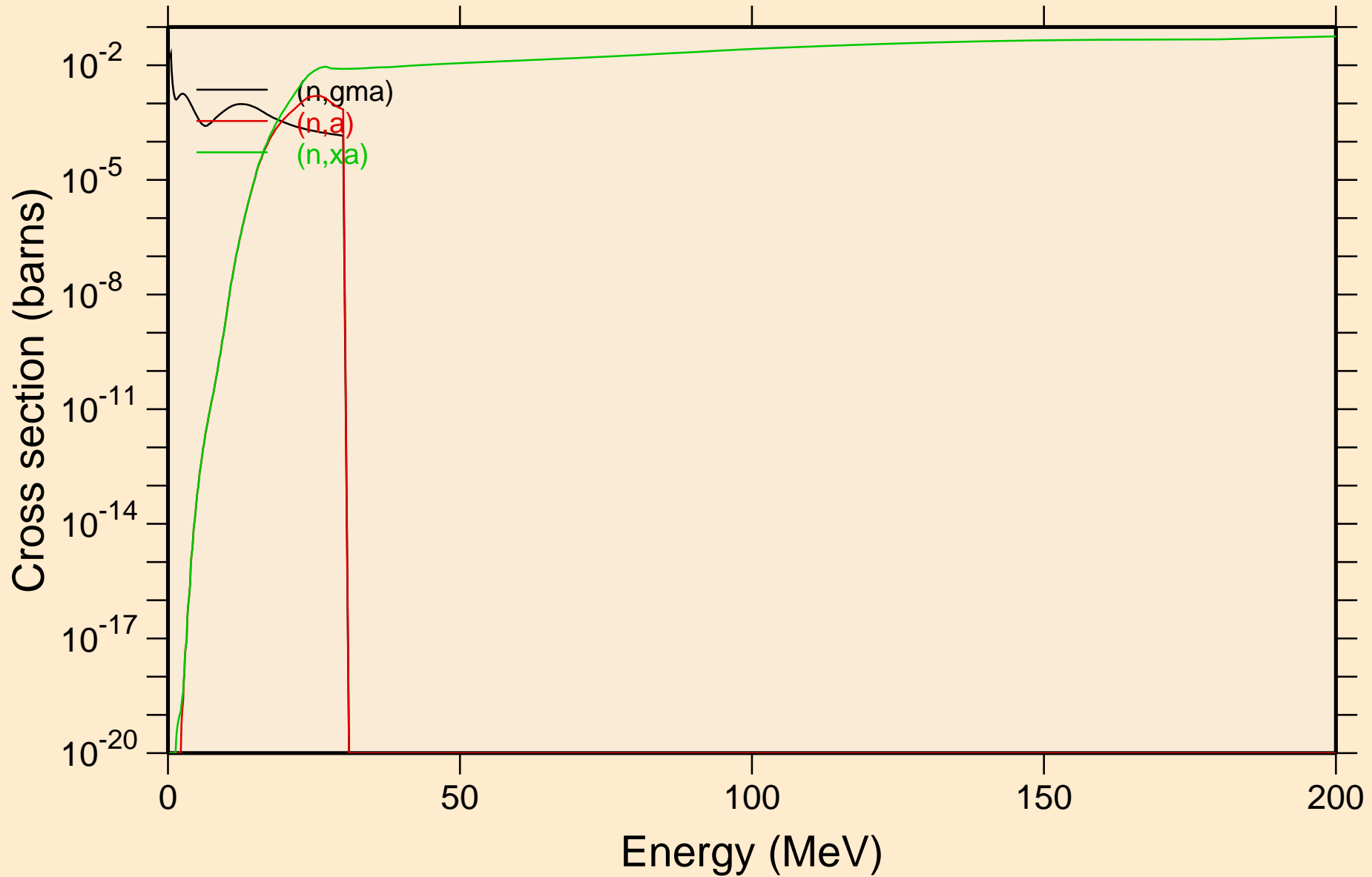


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

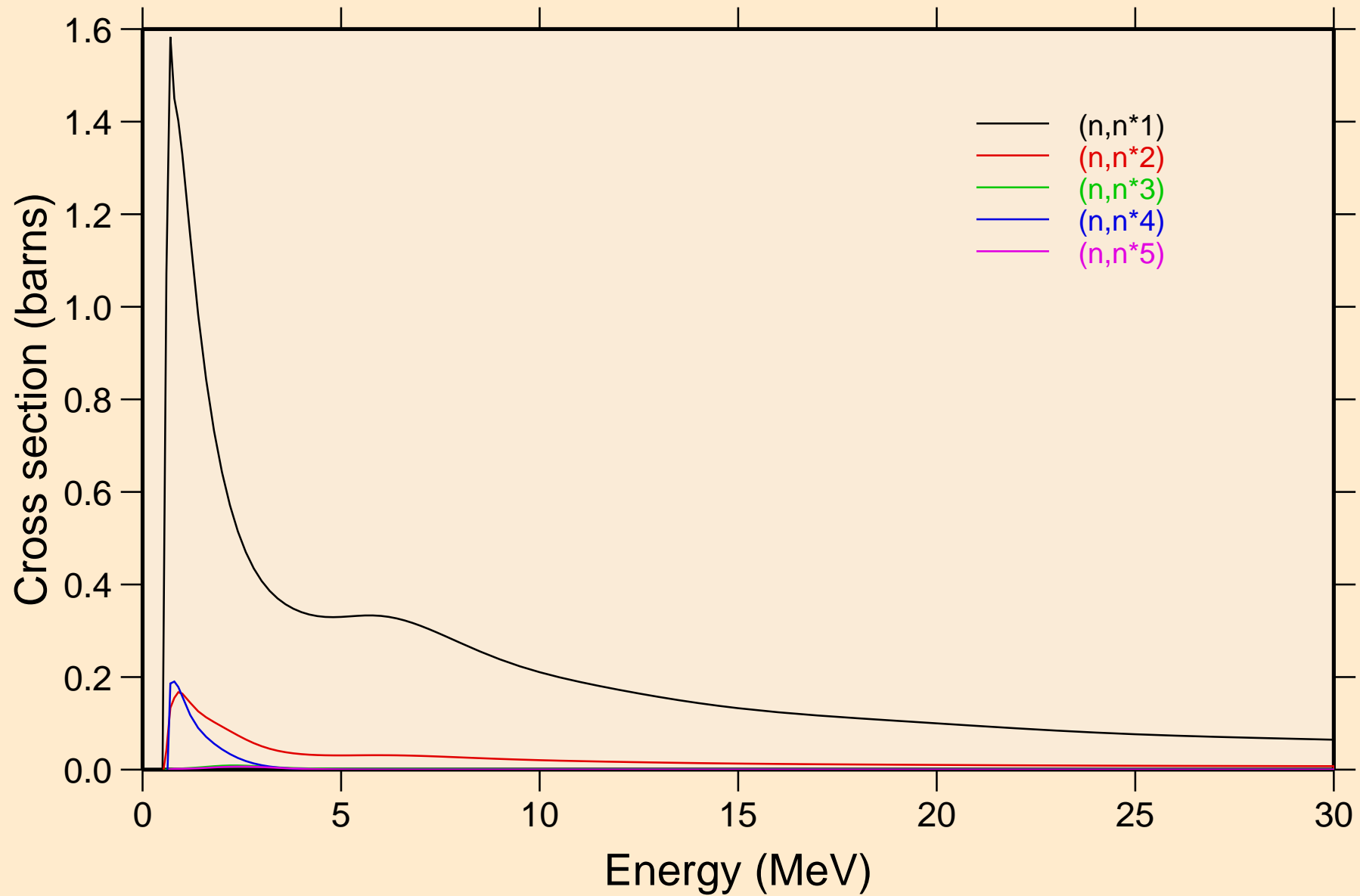


# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

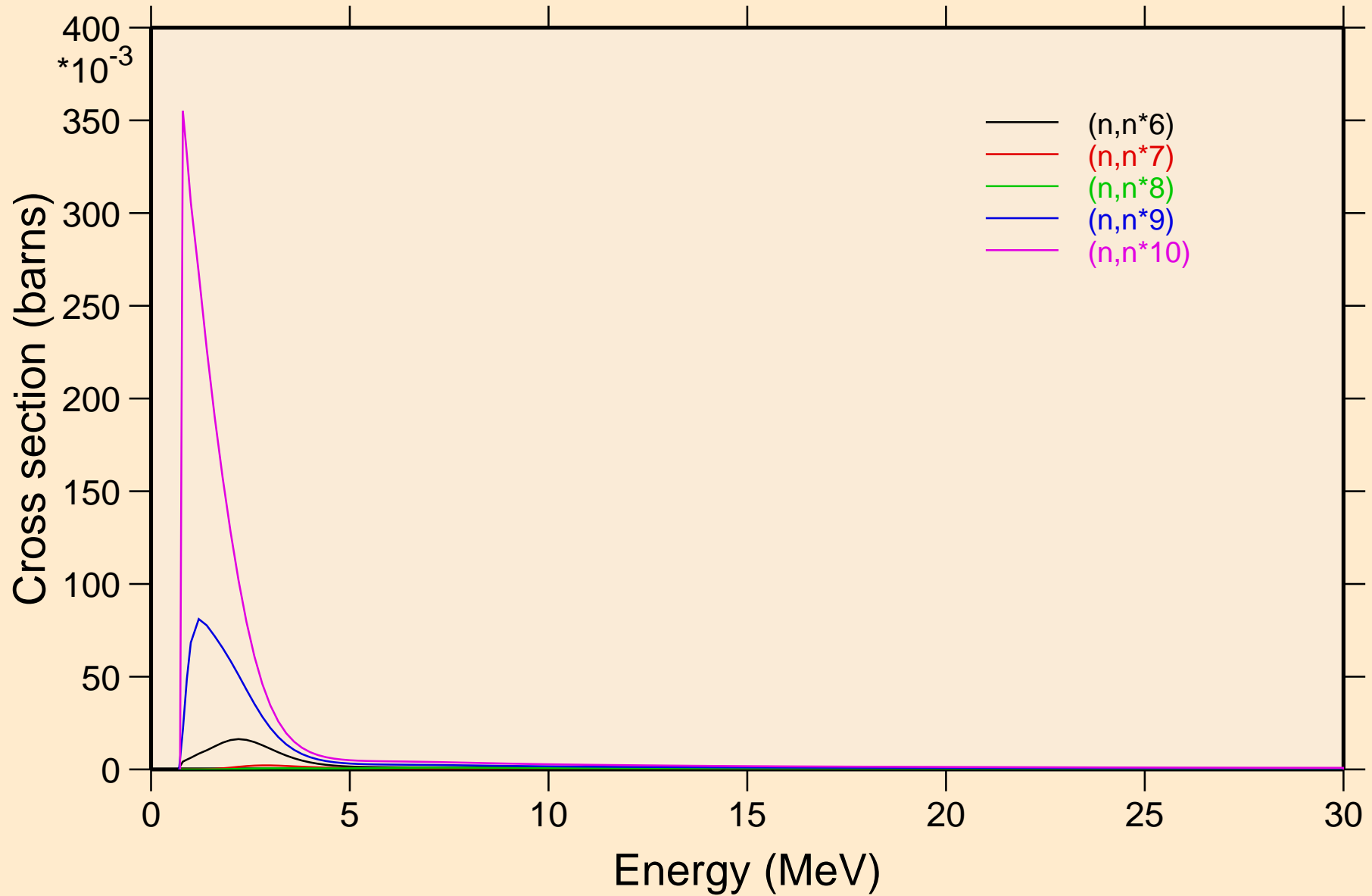


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



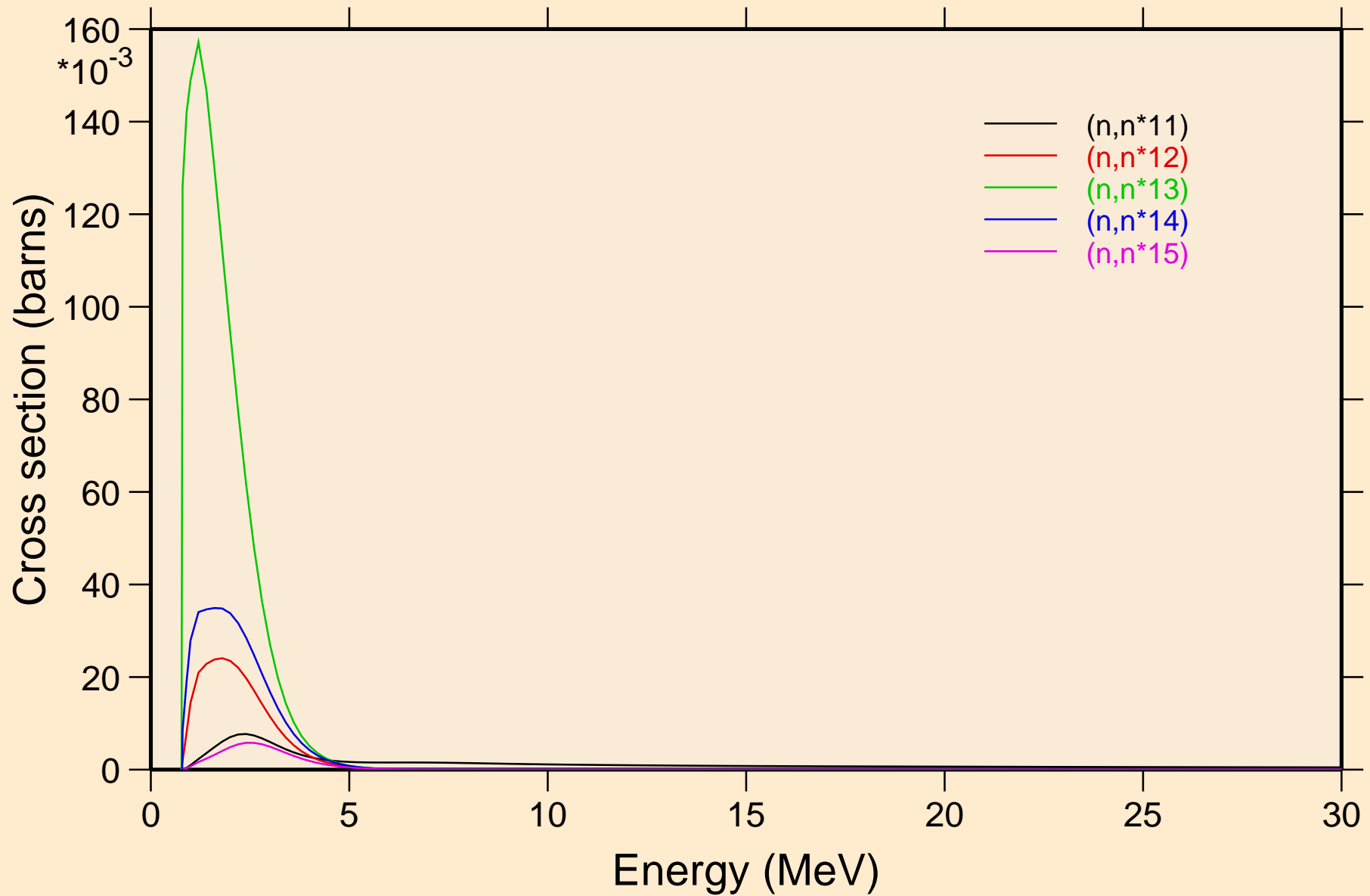
# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



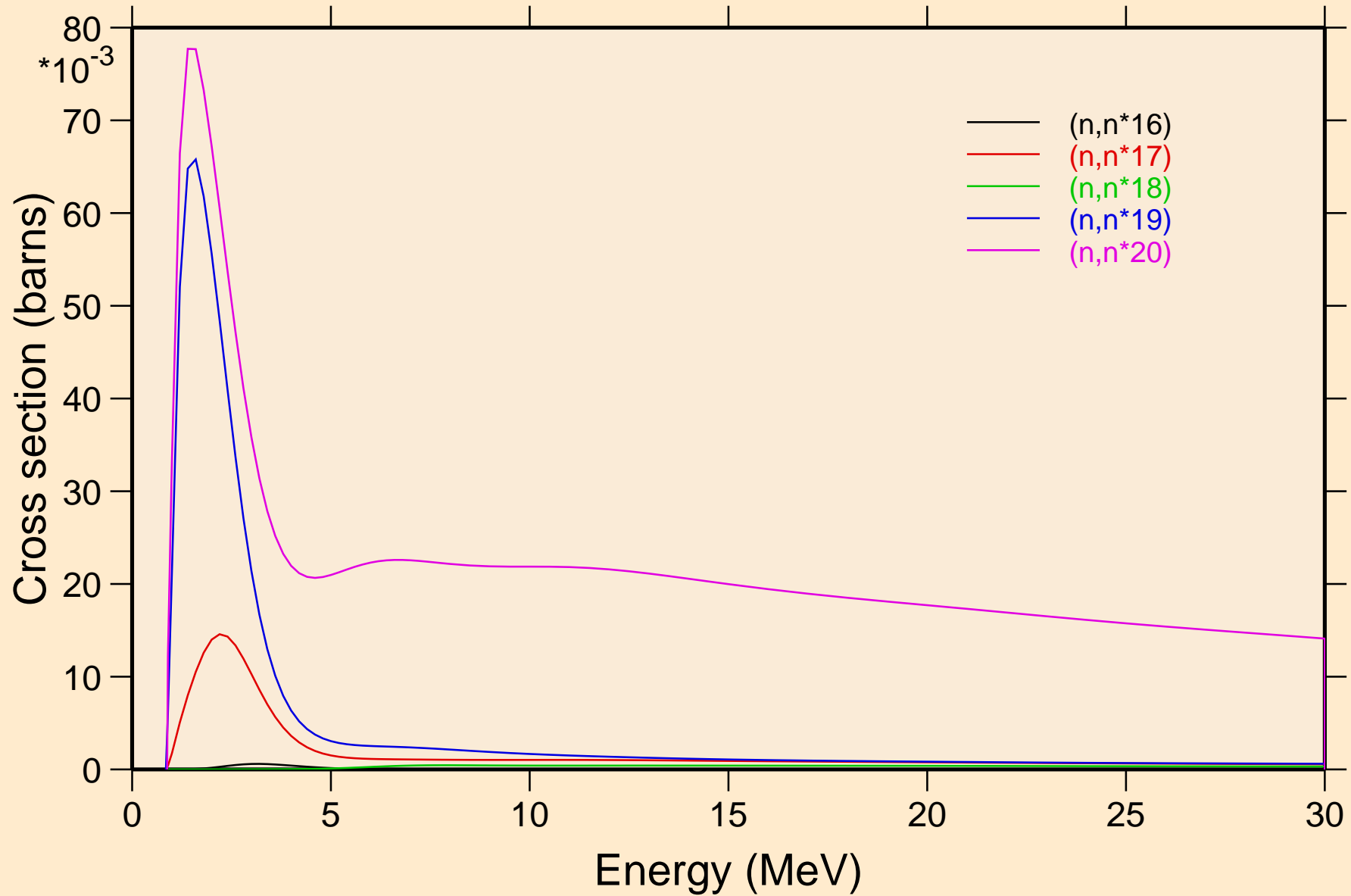
# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels

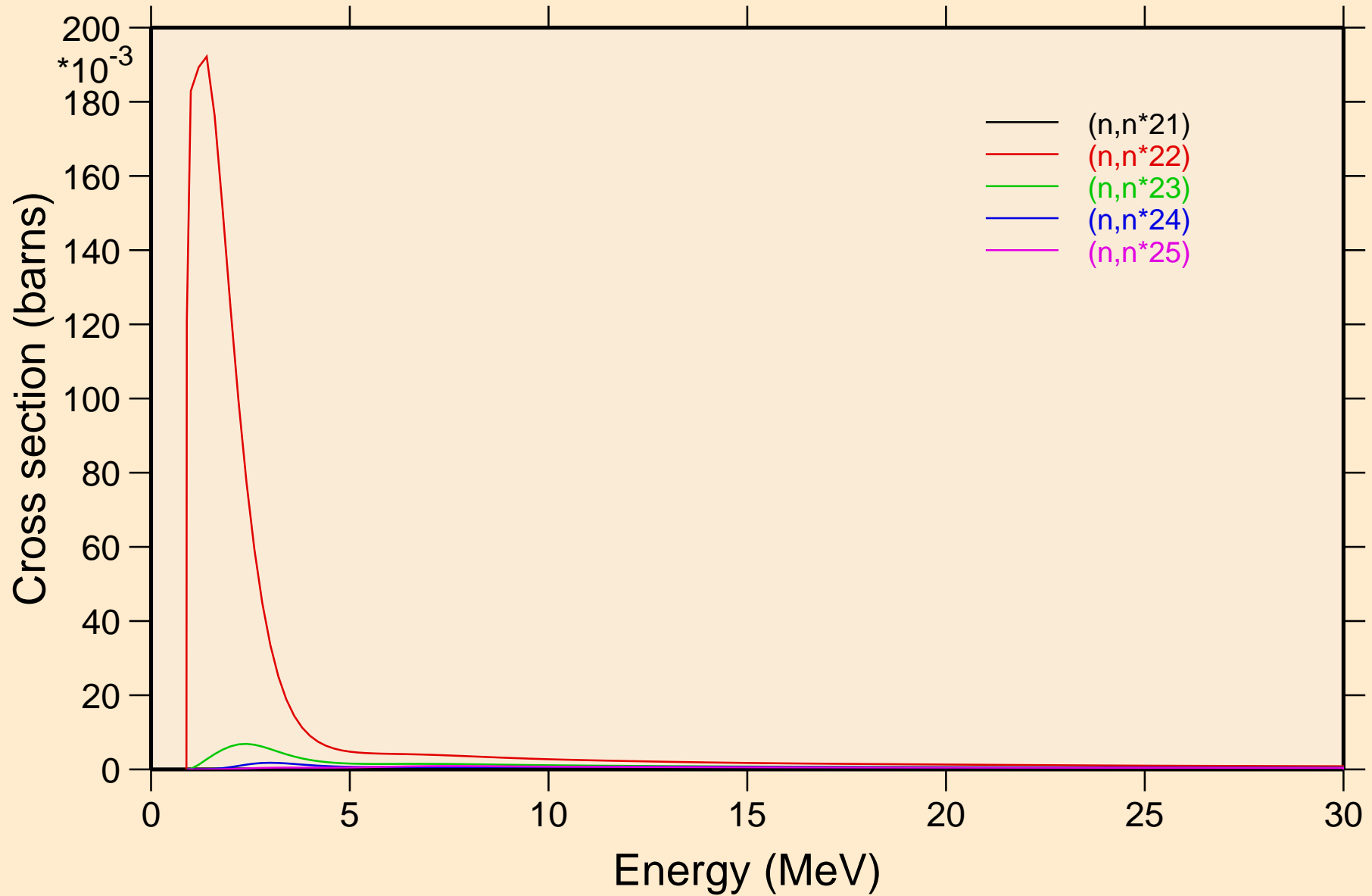


# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

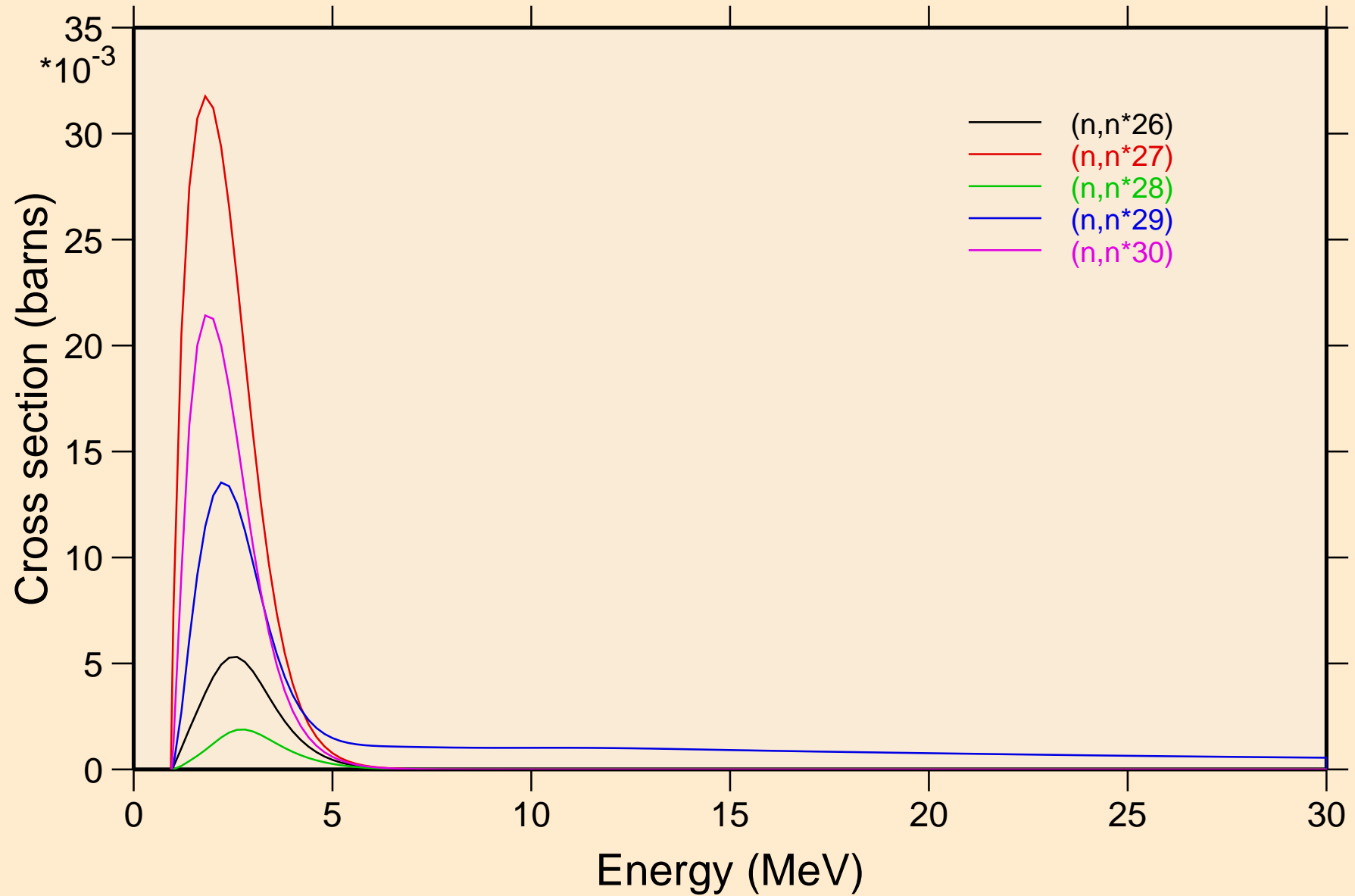
## Inelastic levels



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



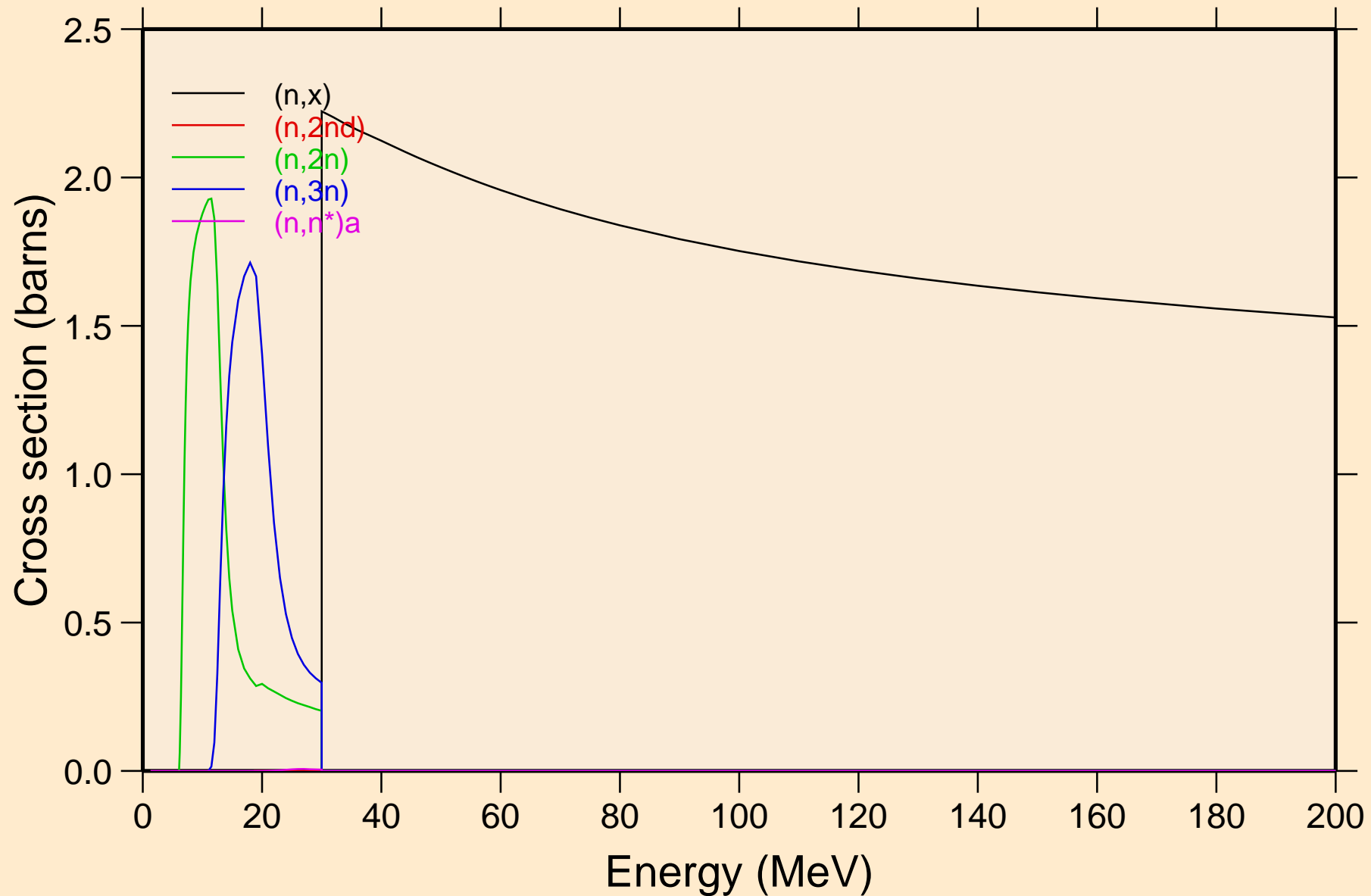
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels





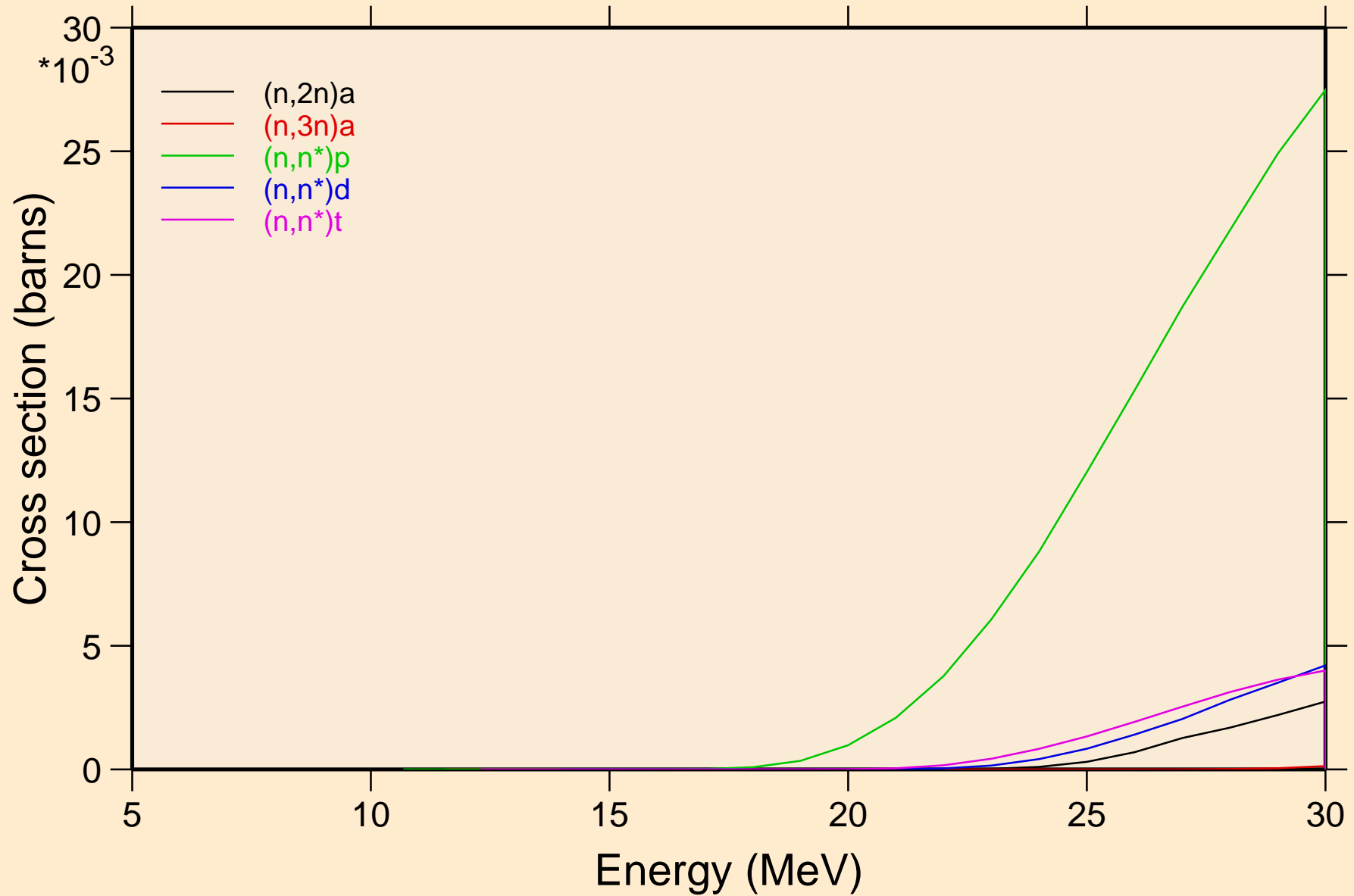
# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

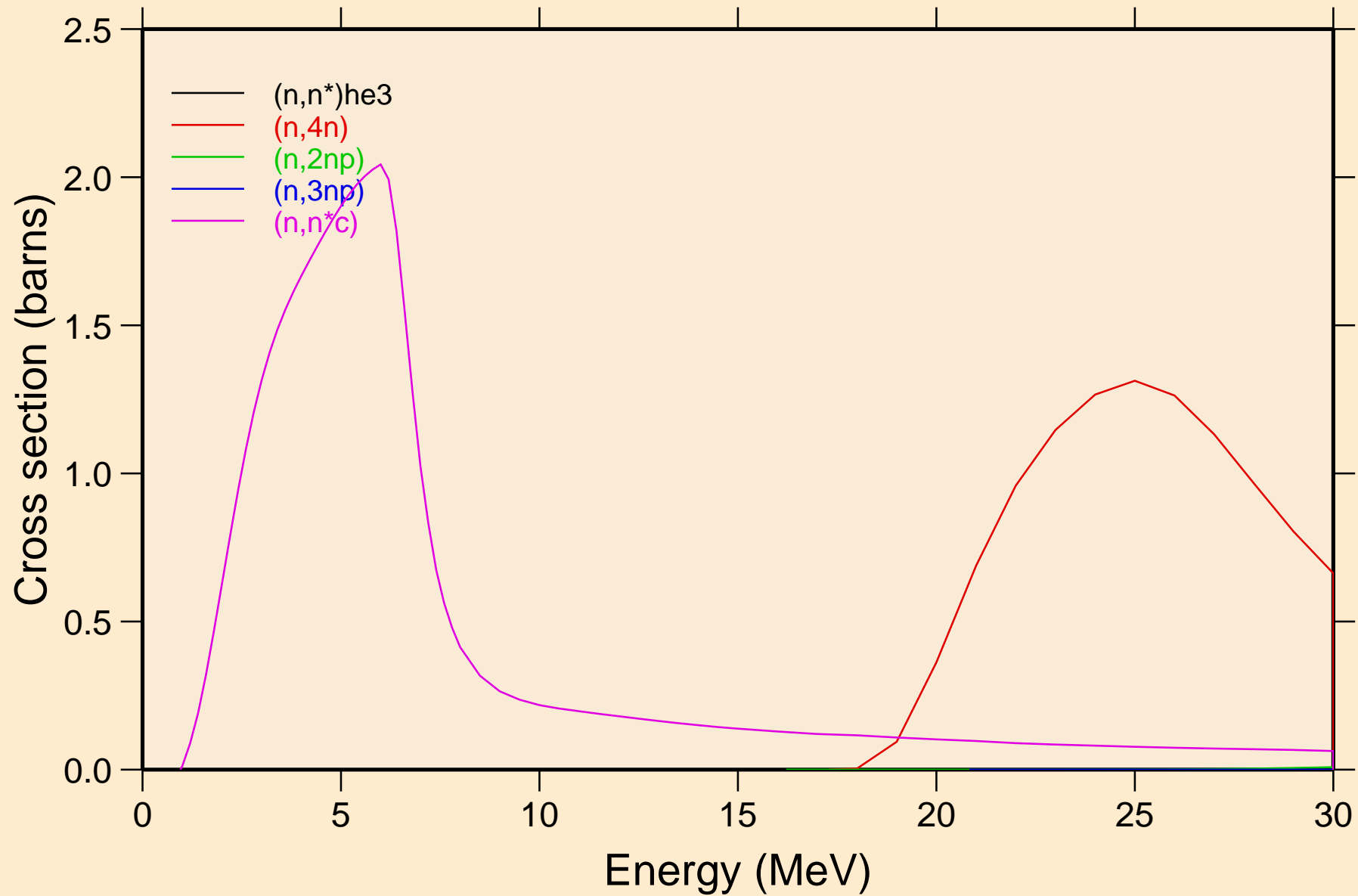


# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

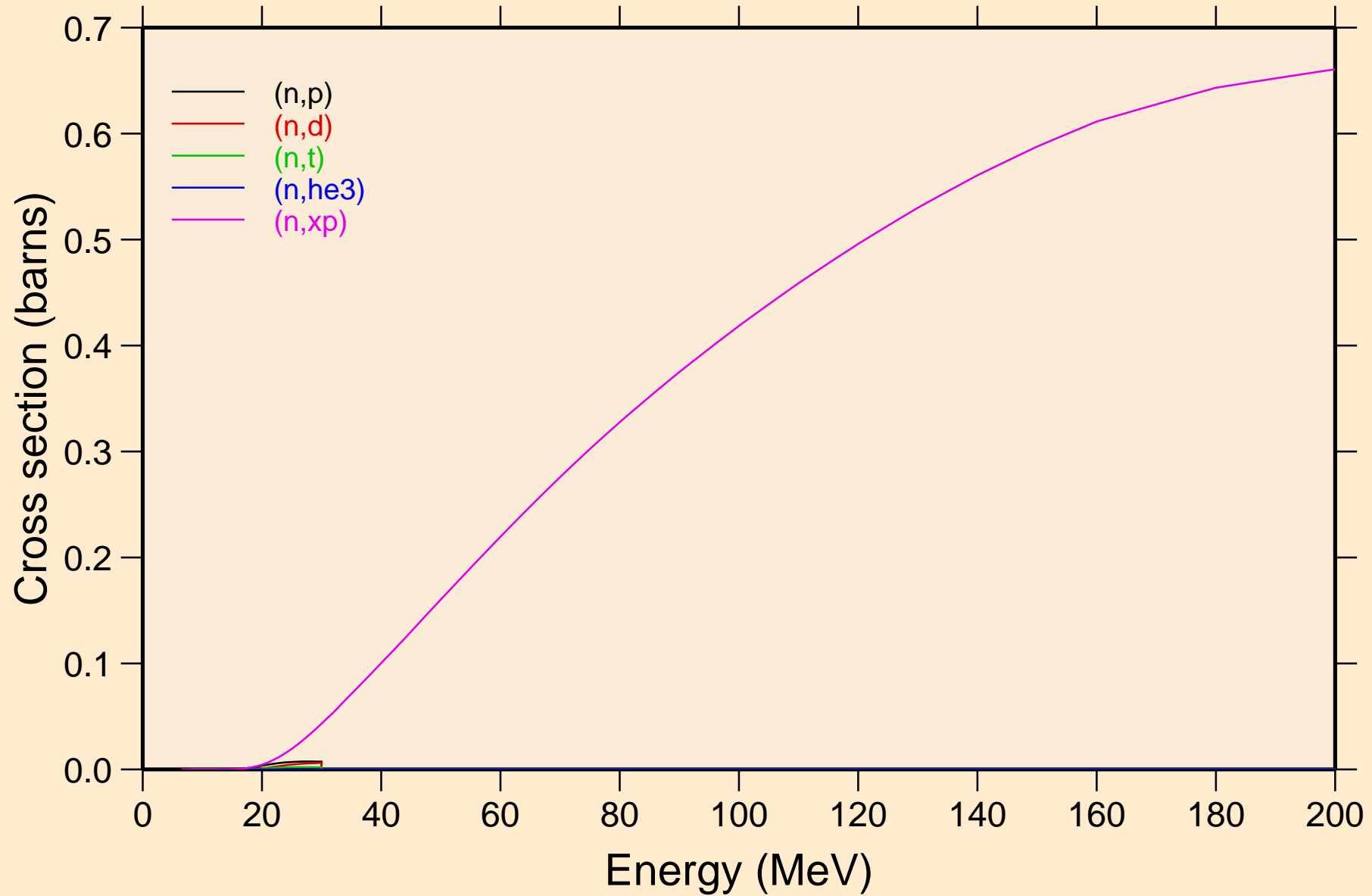


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

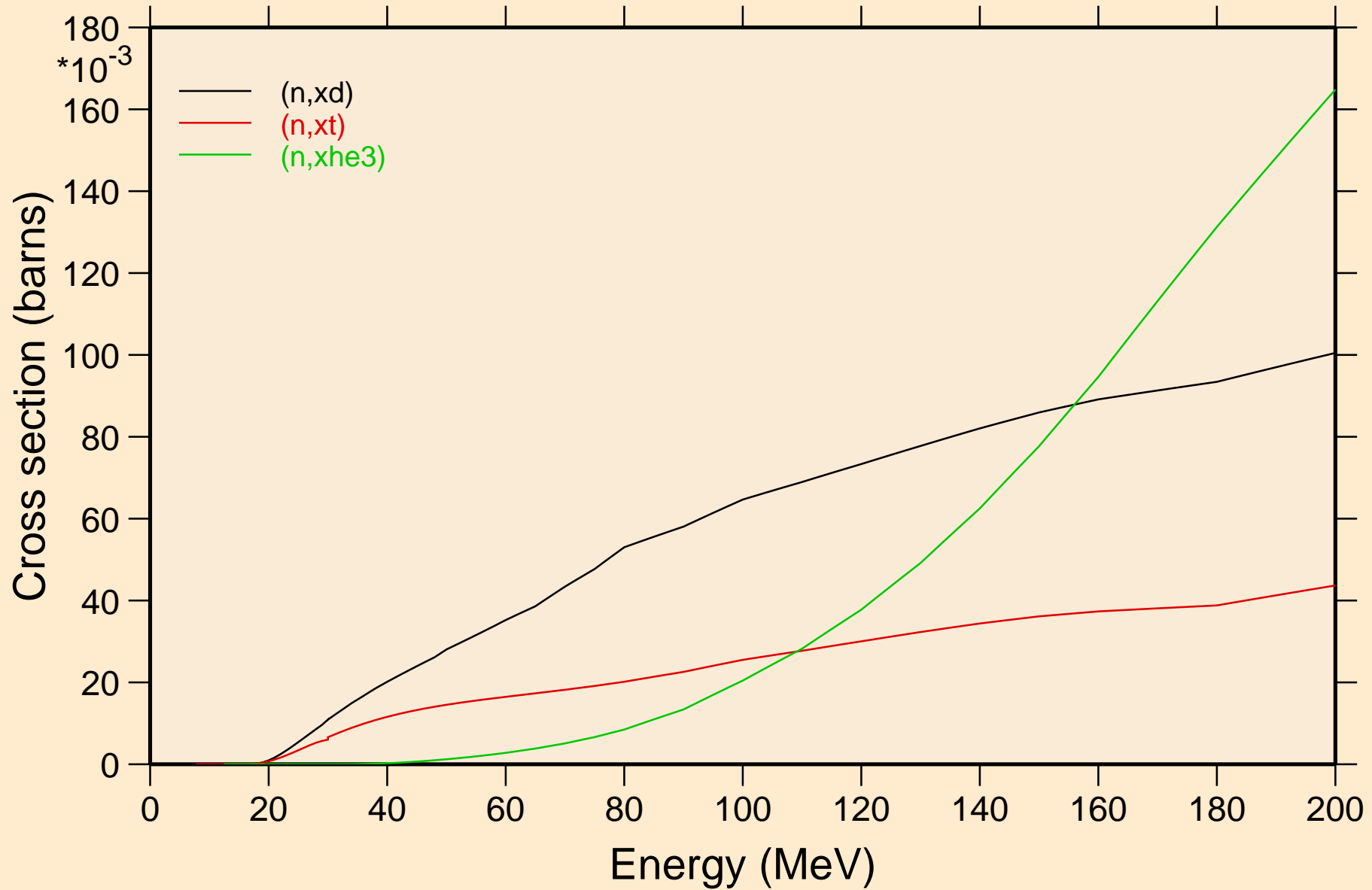


# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

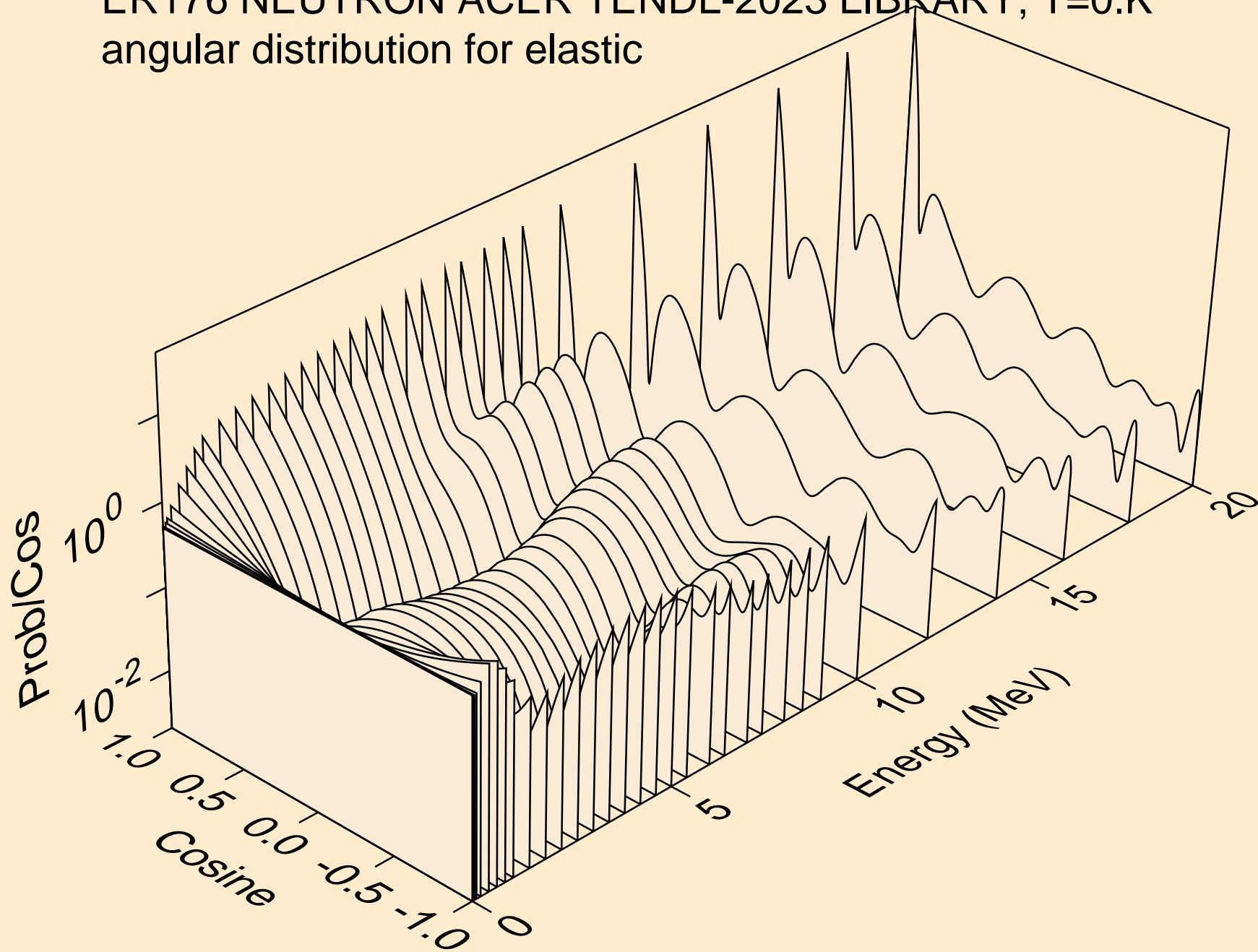
## Threshold reactions



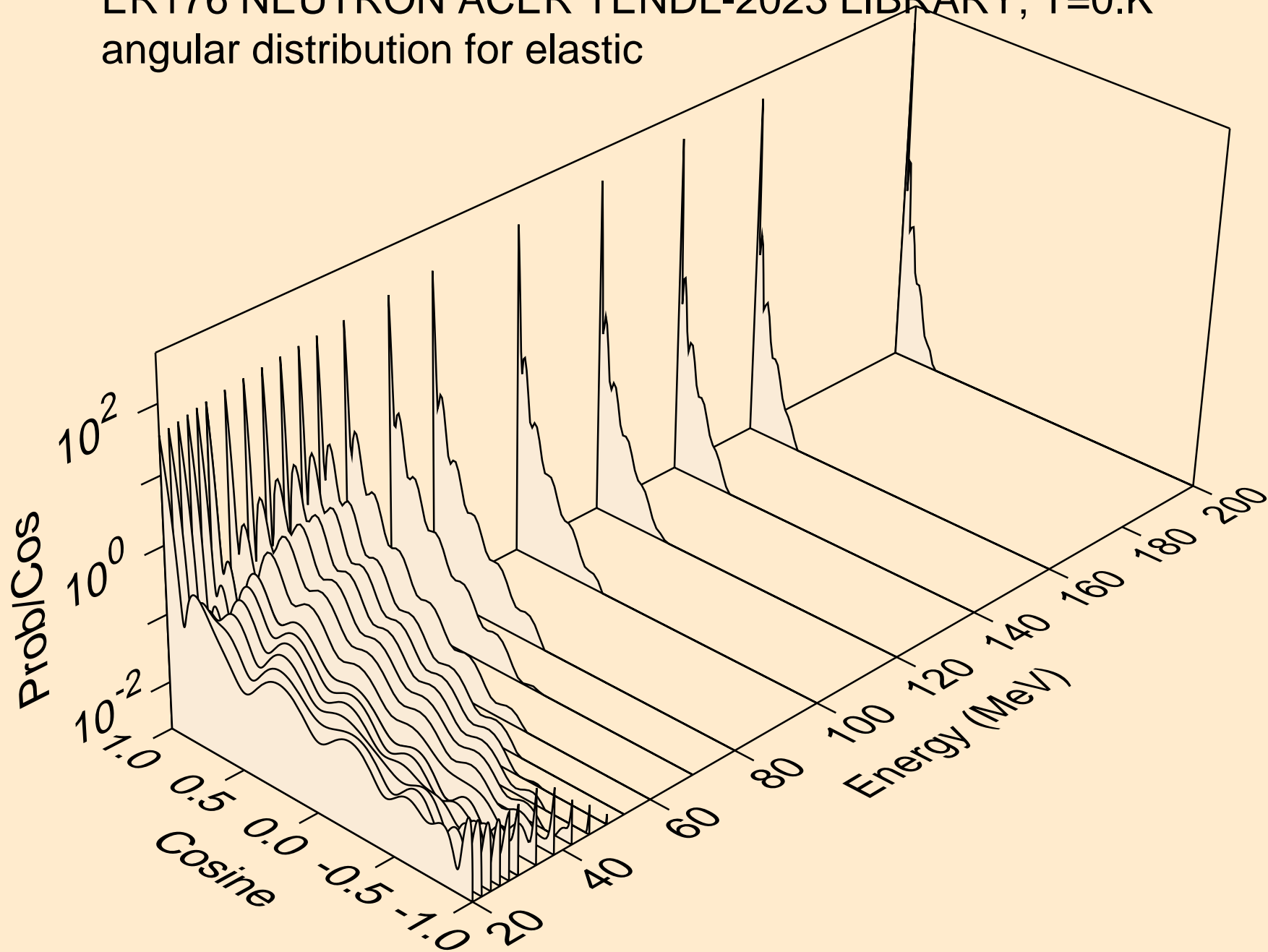
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



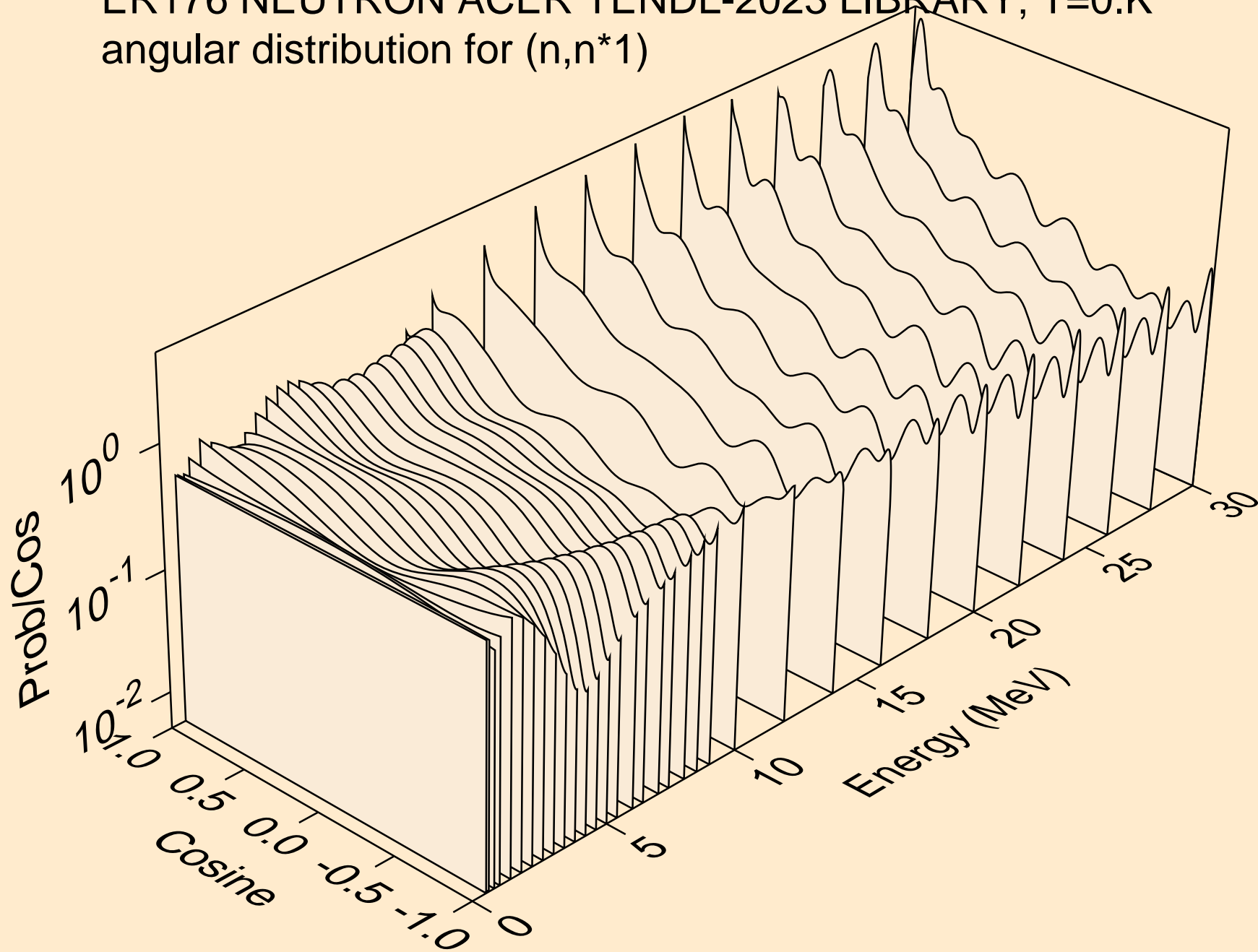
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

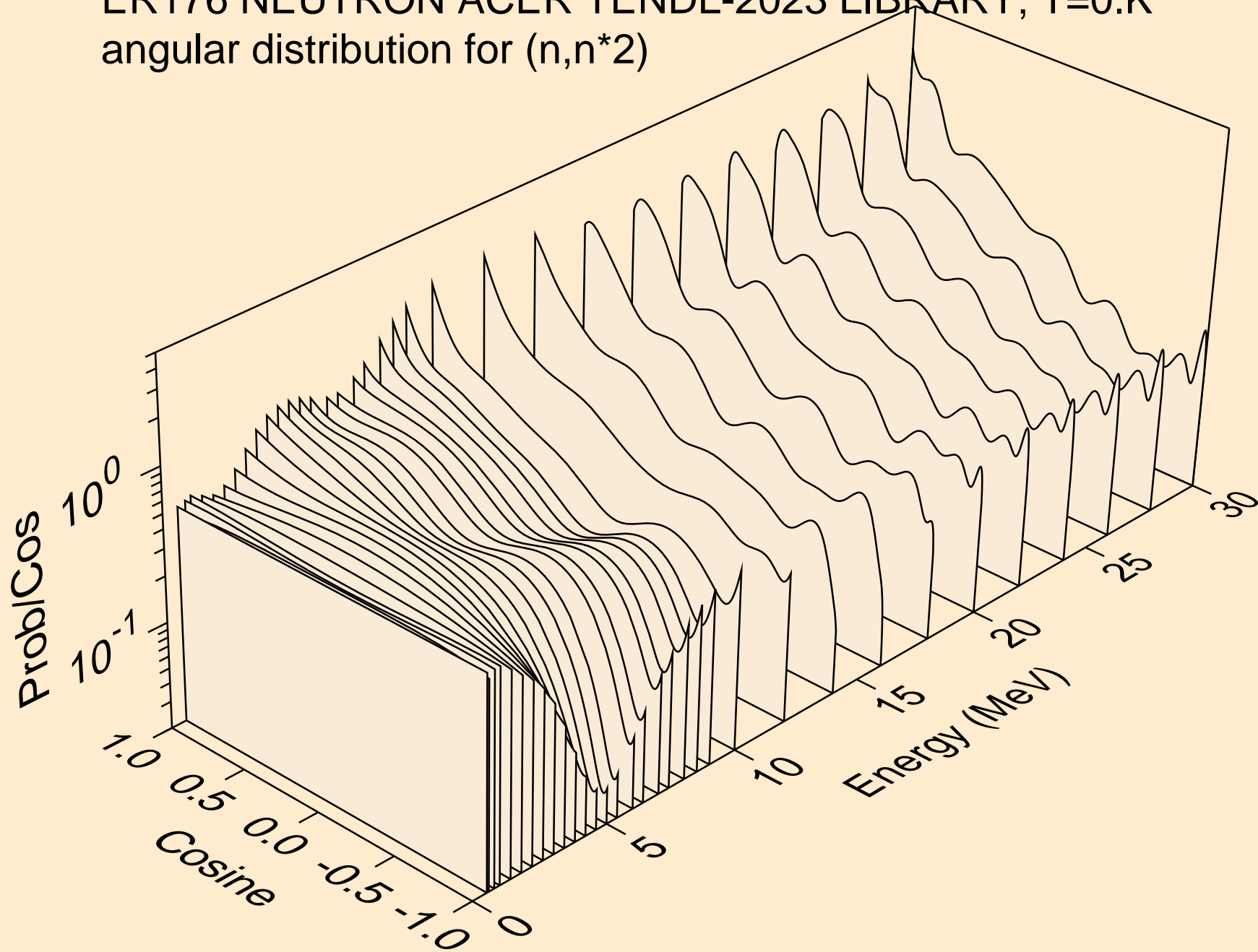


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)

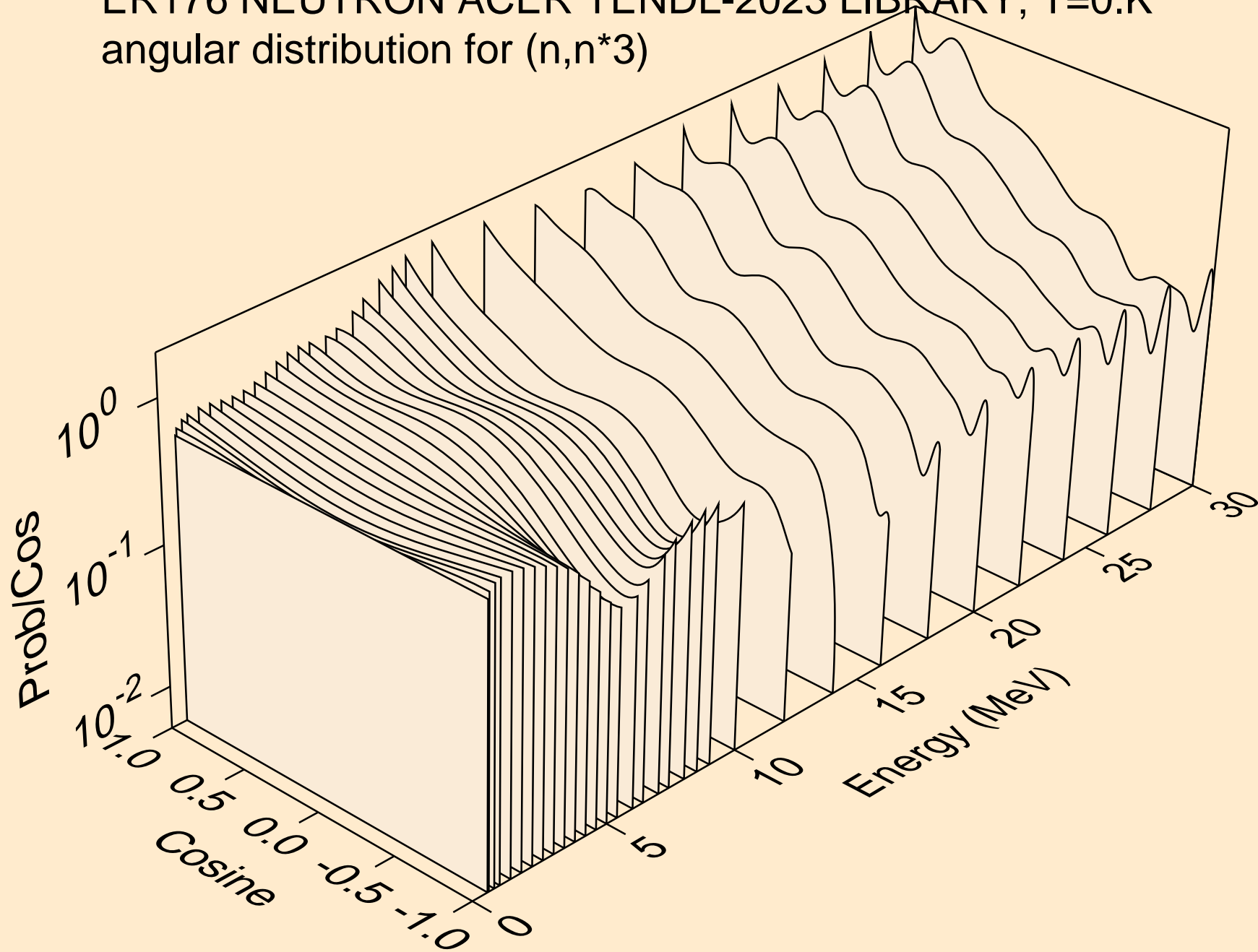




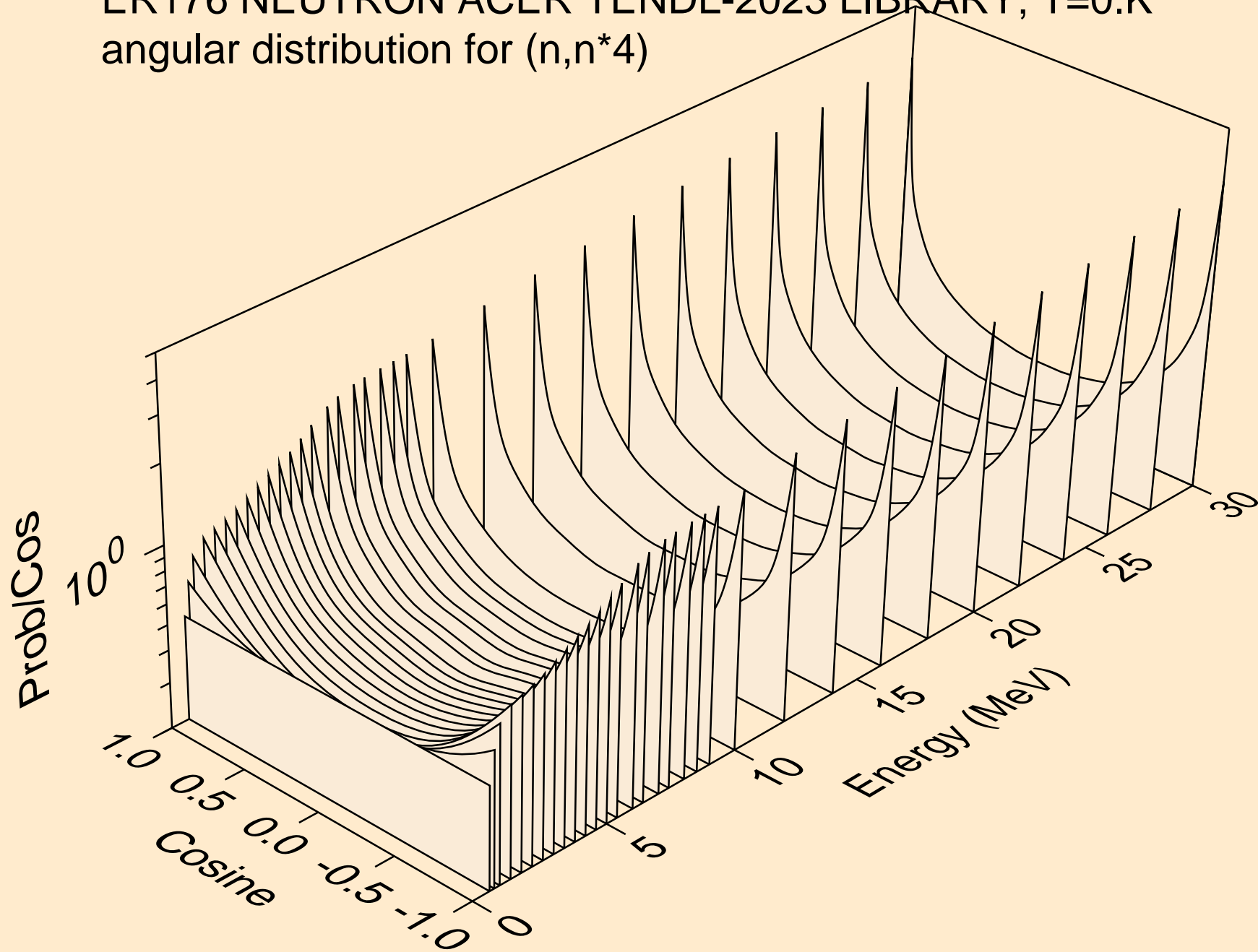
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



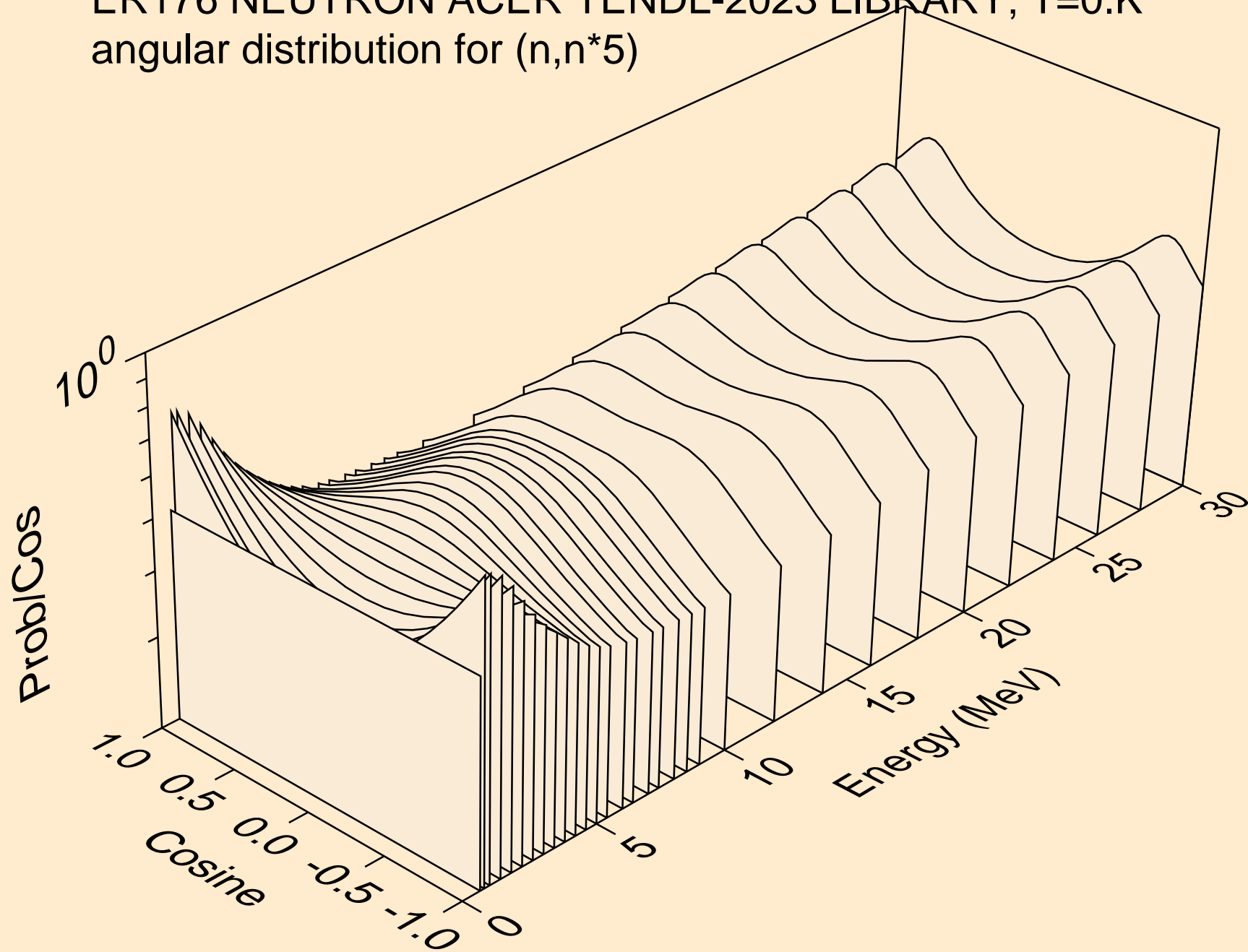
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



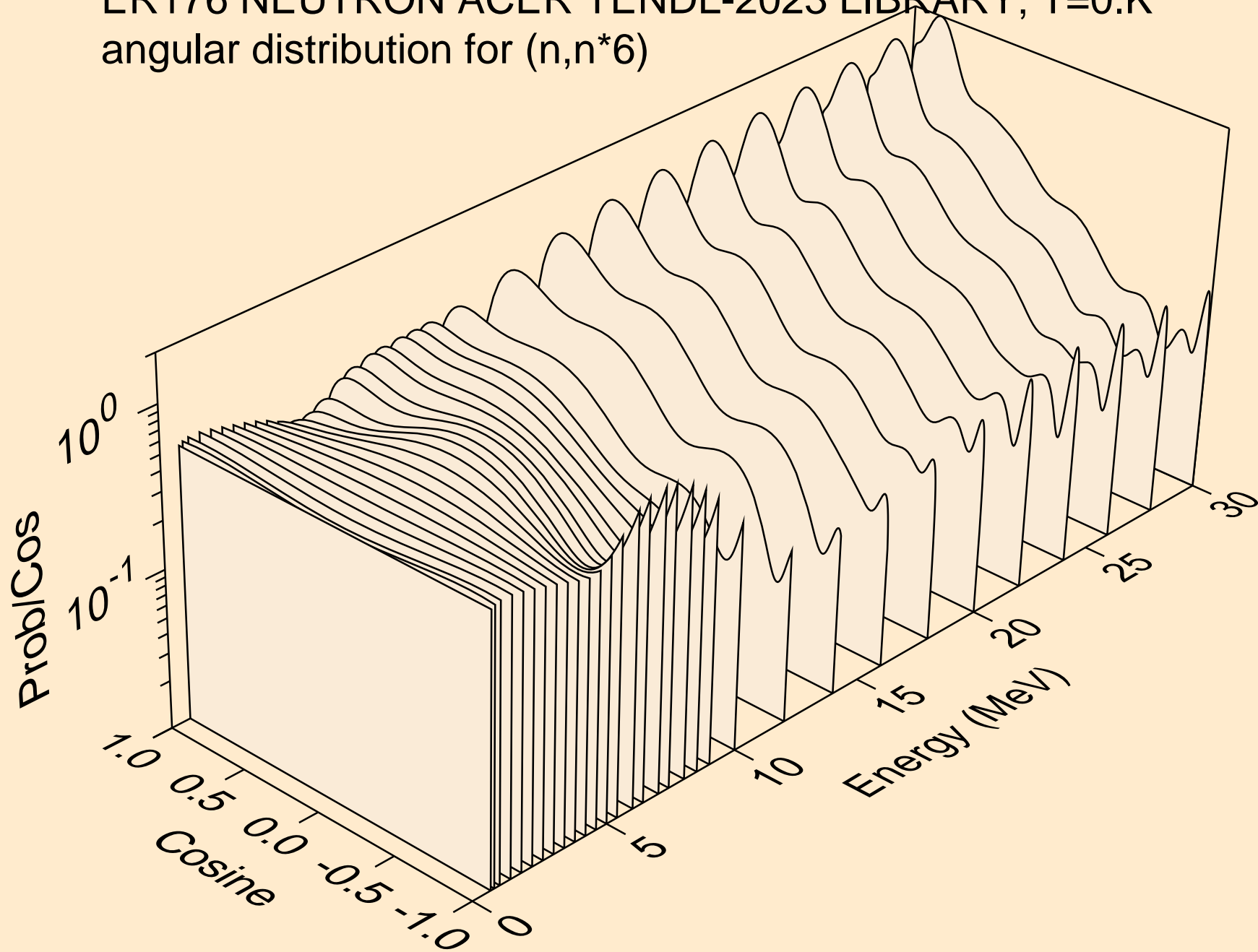
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



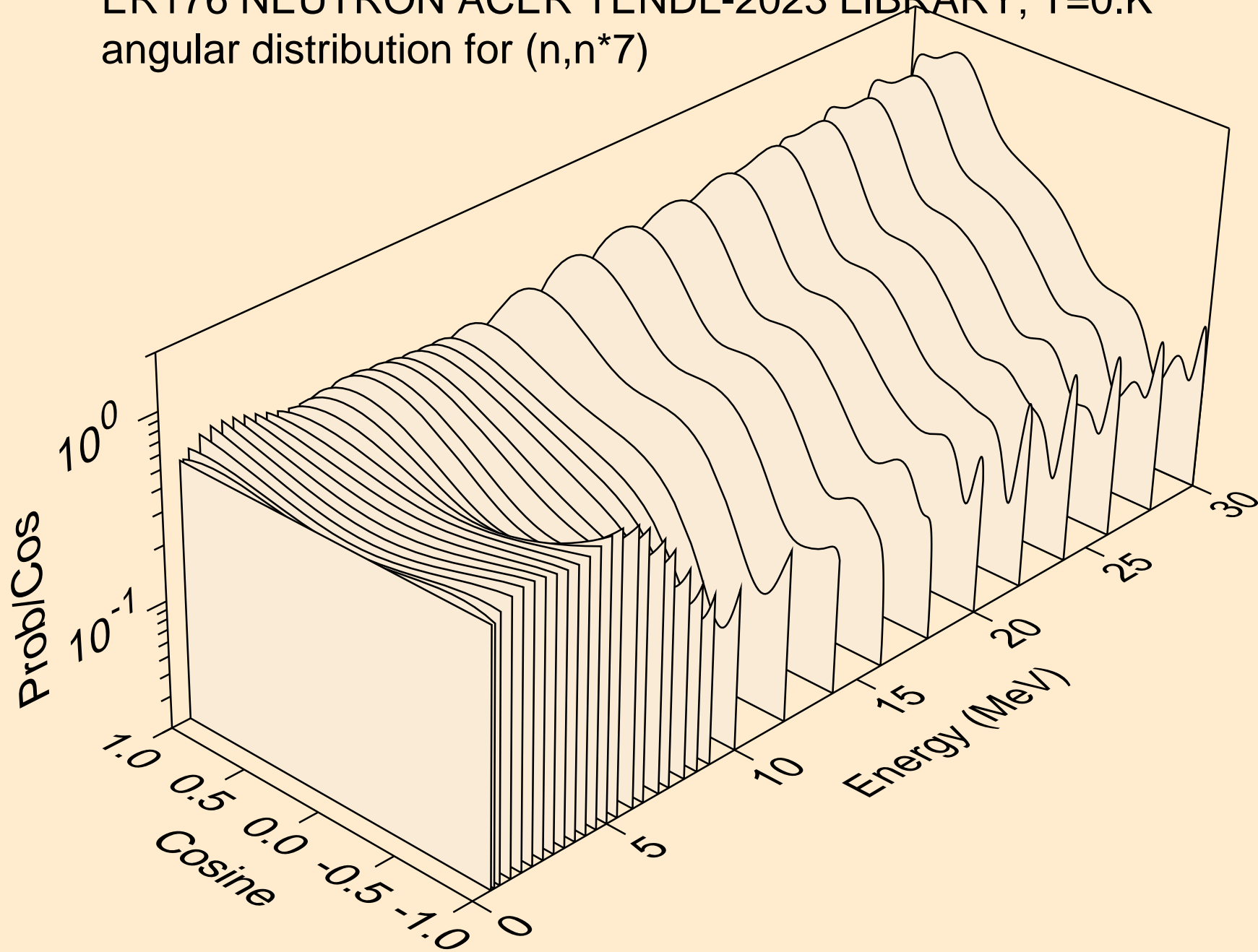
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



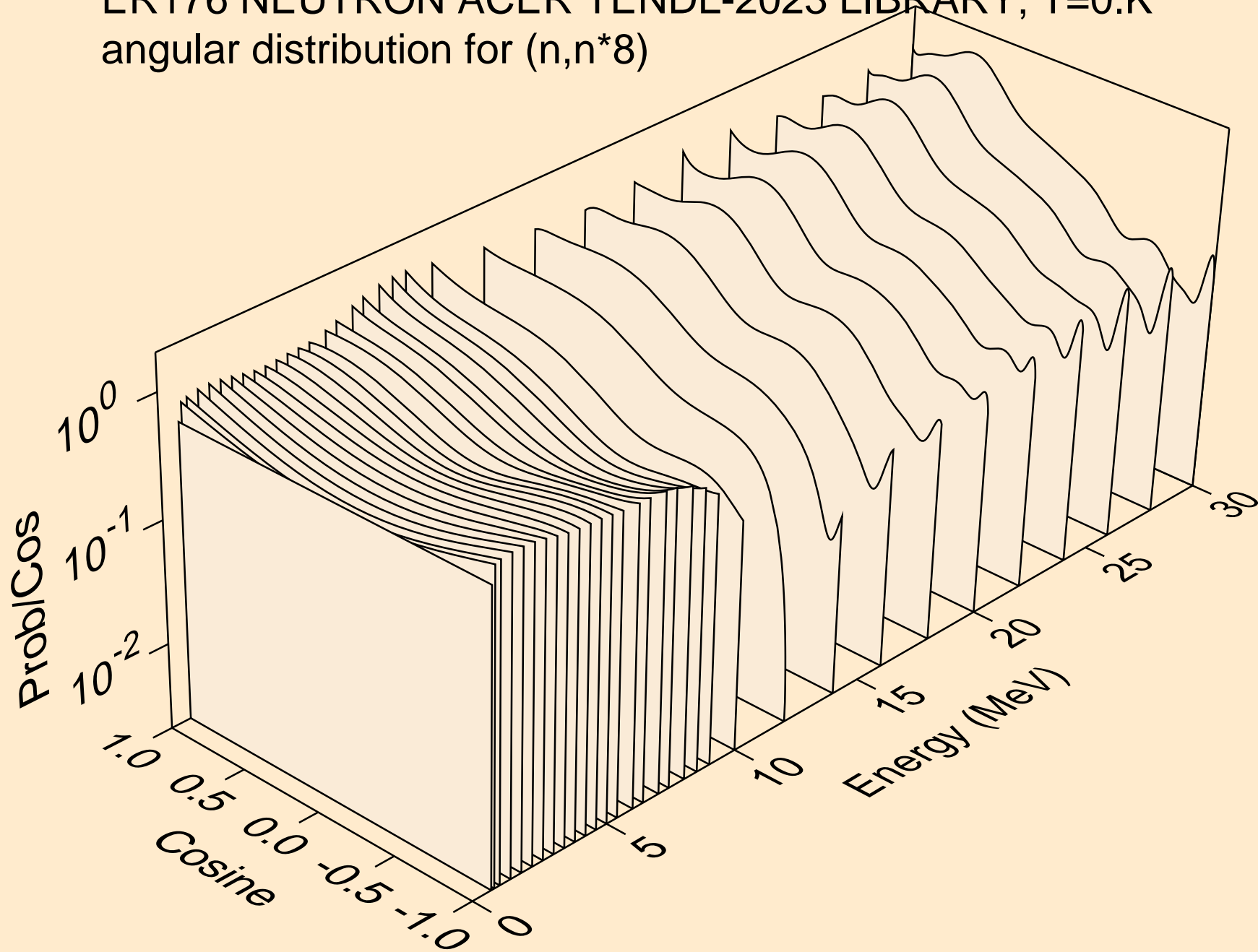
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



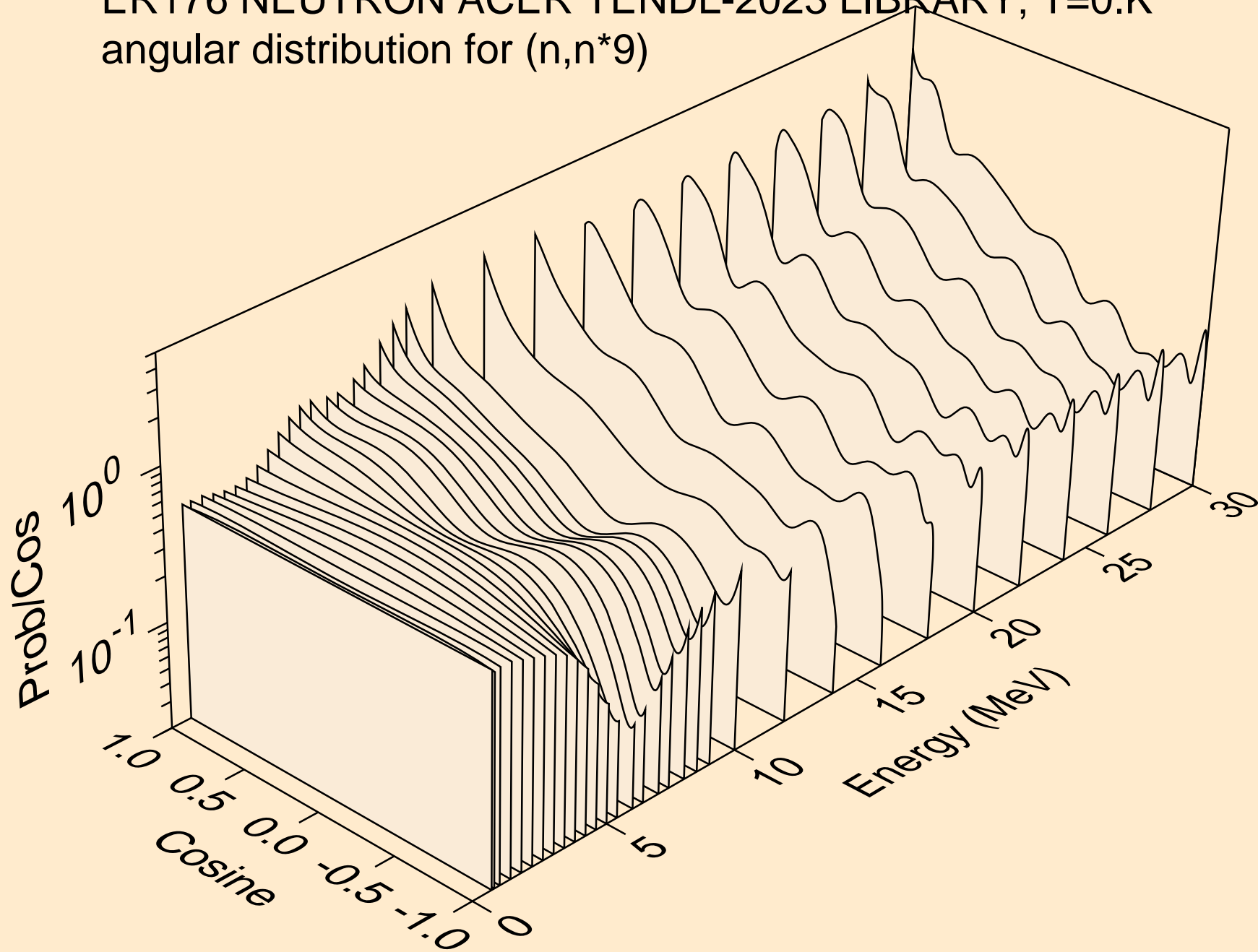
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)

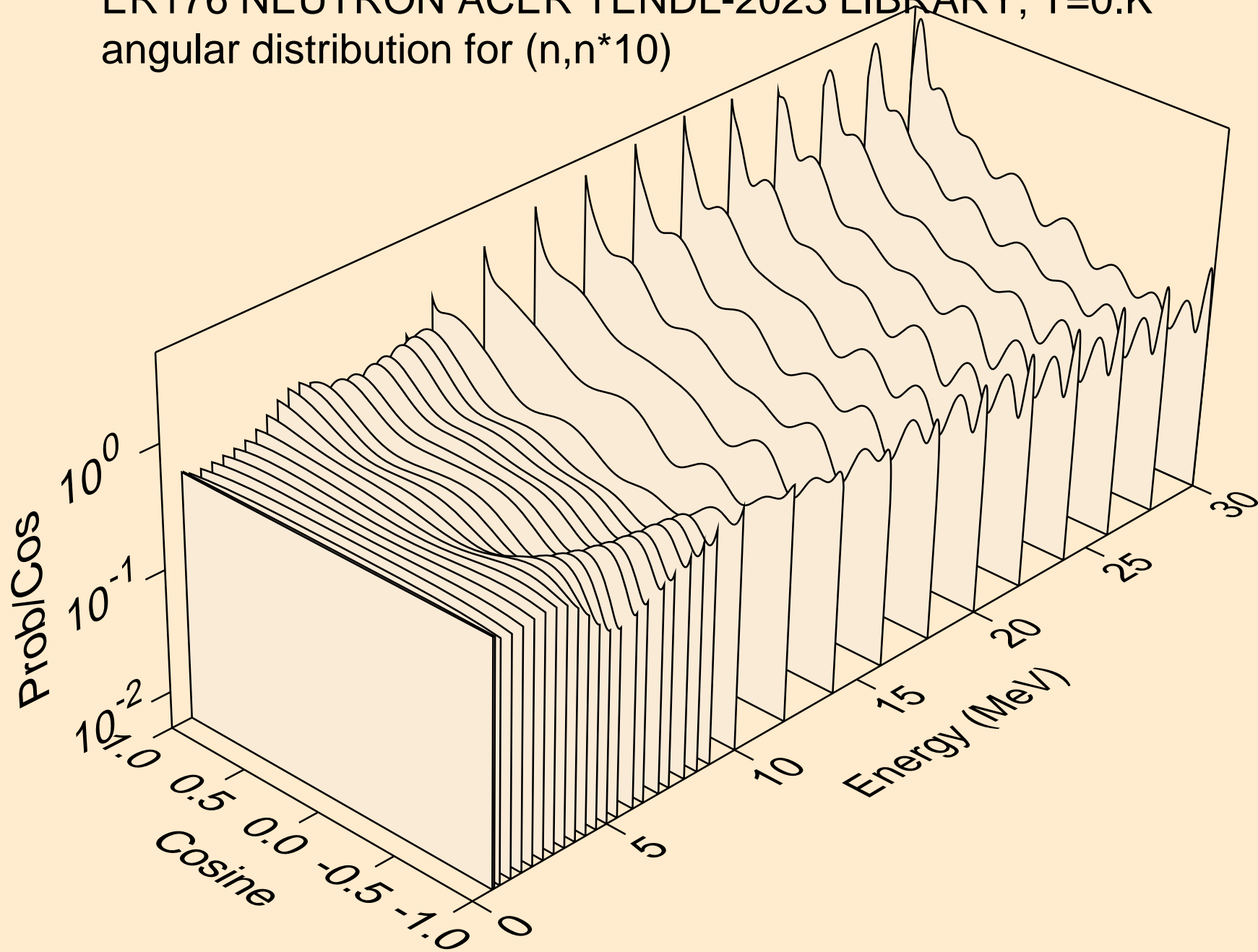


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)

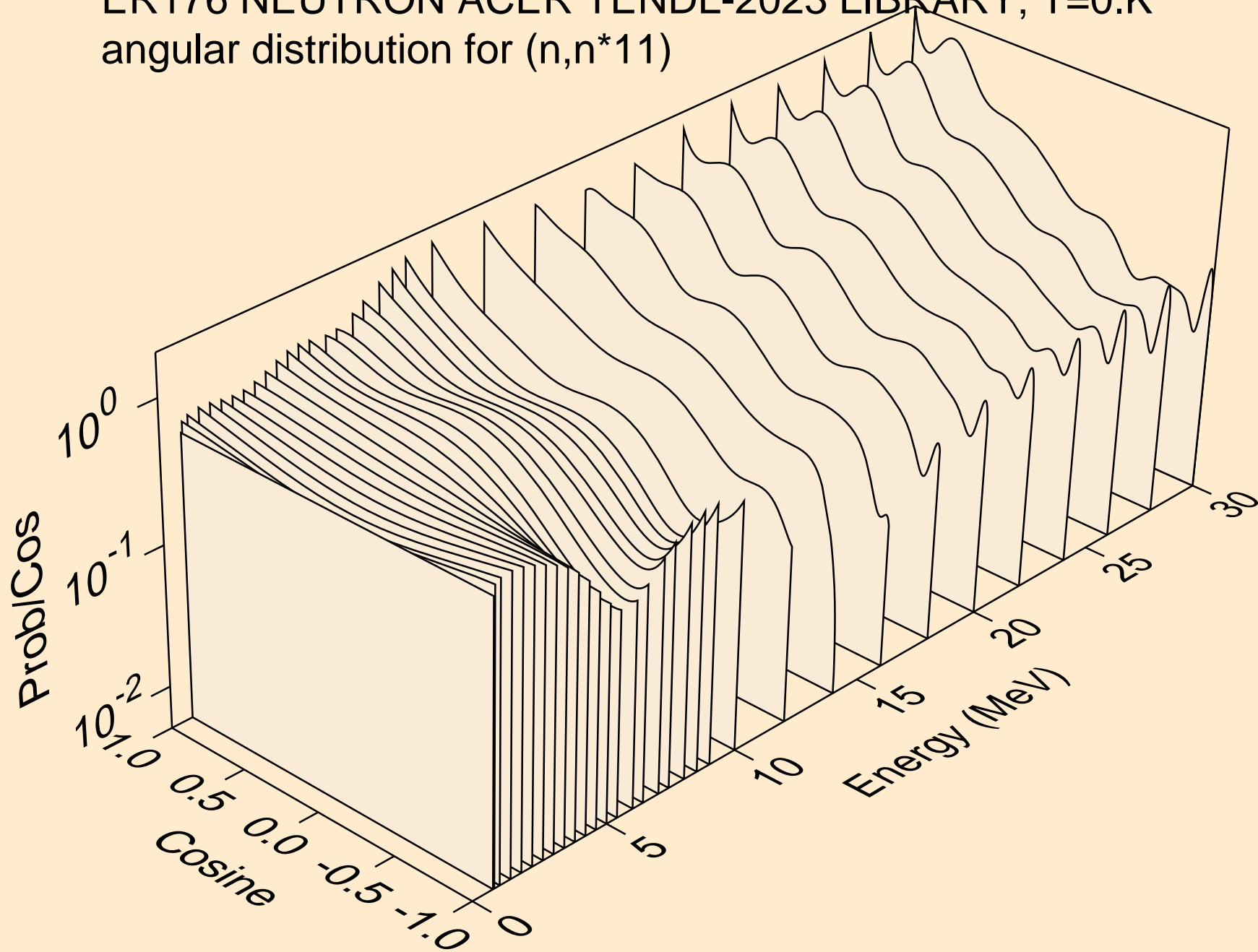




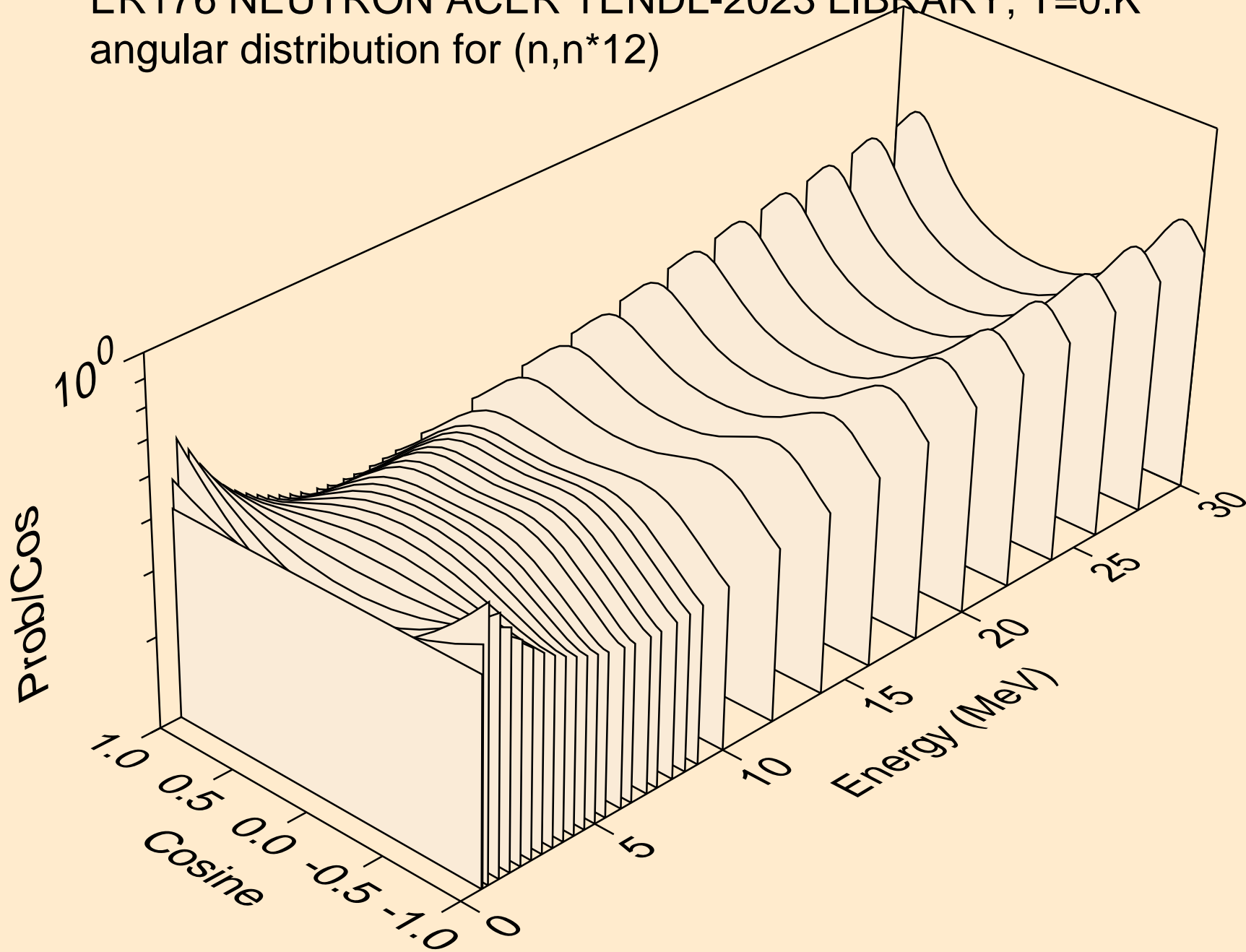
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*10)



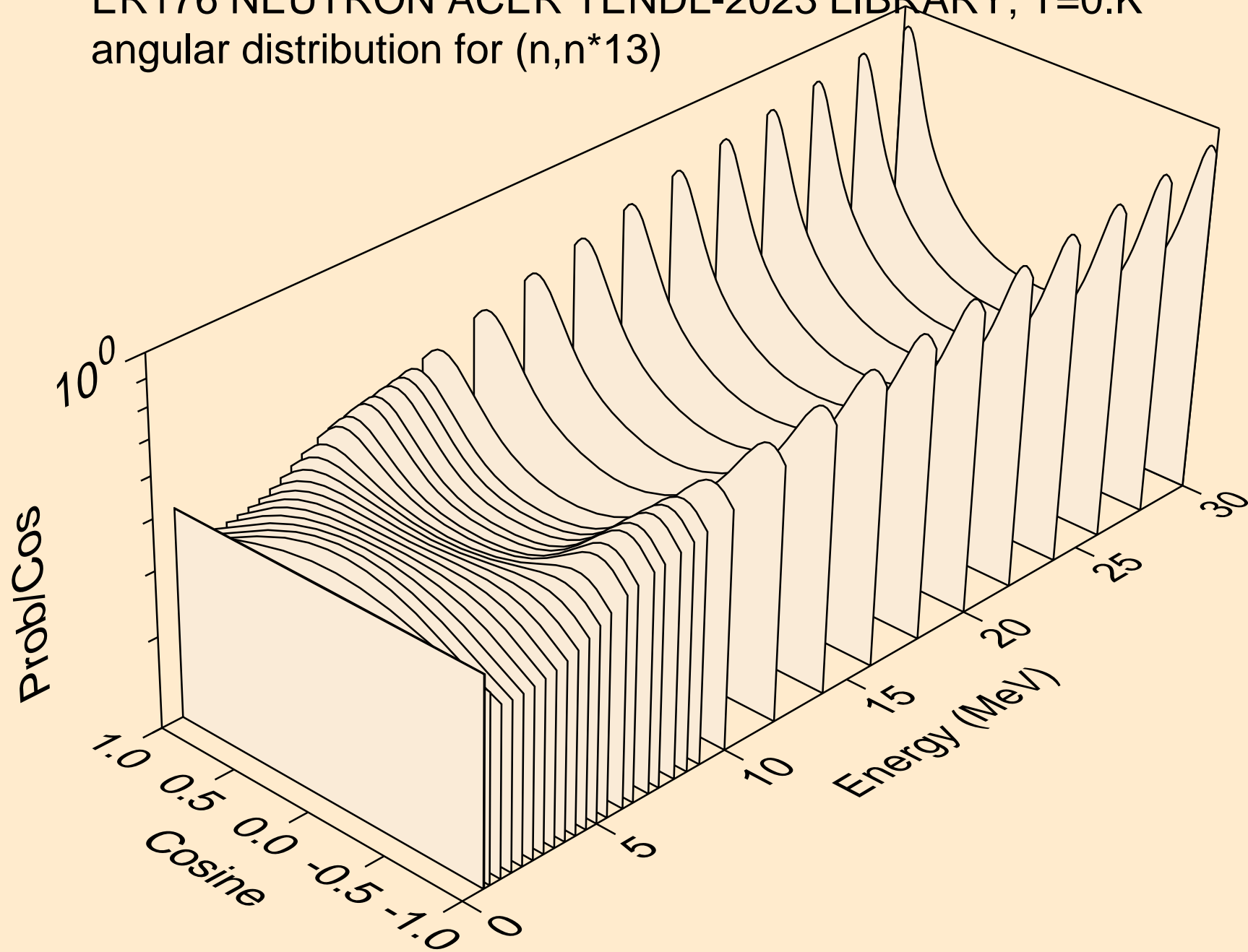
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



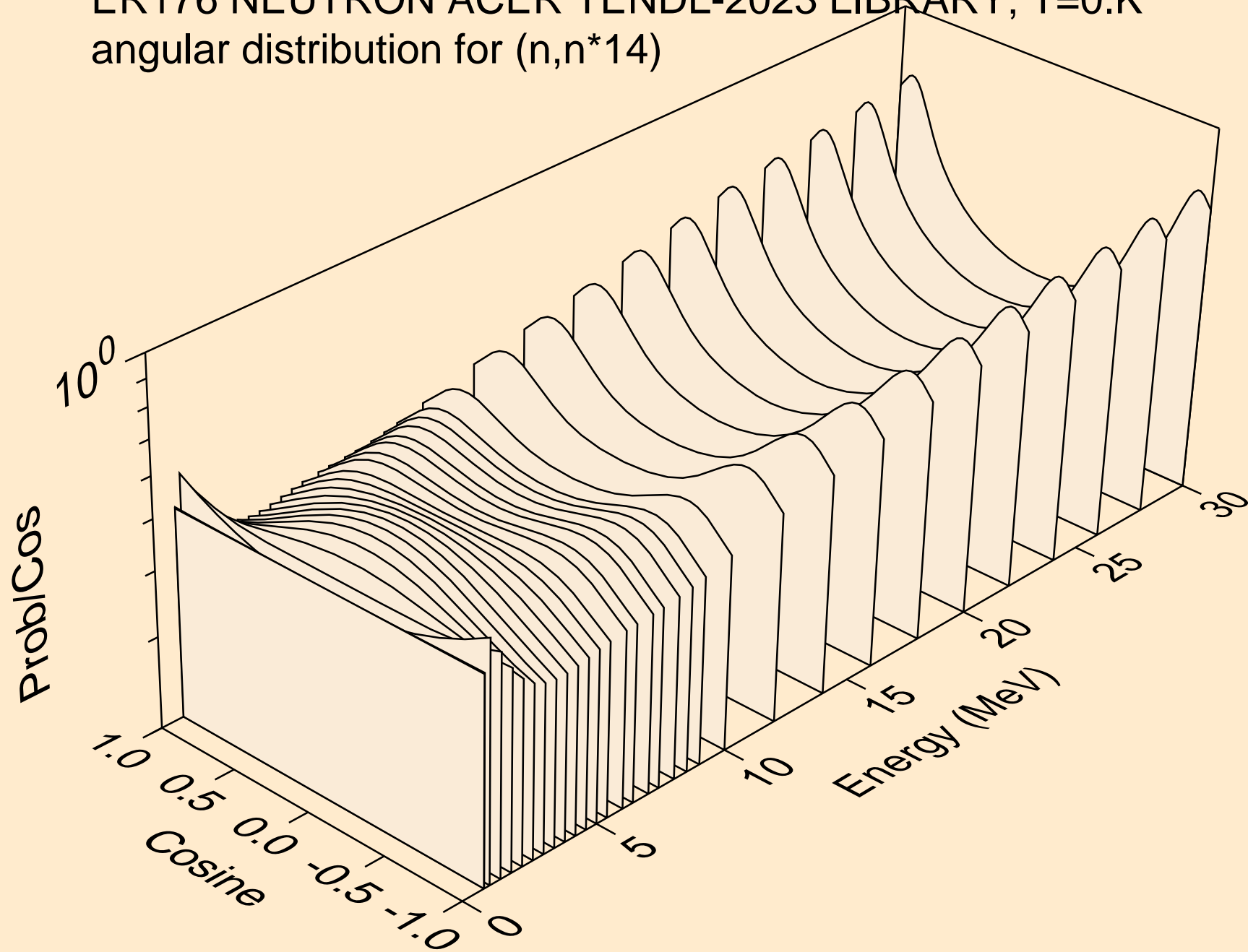
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)



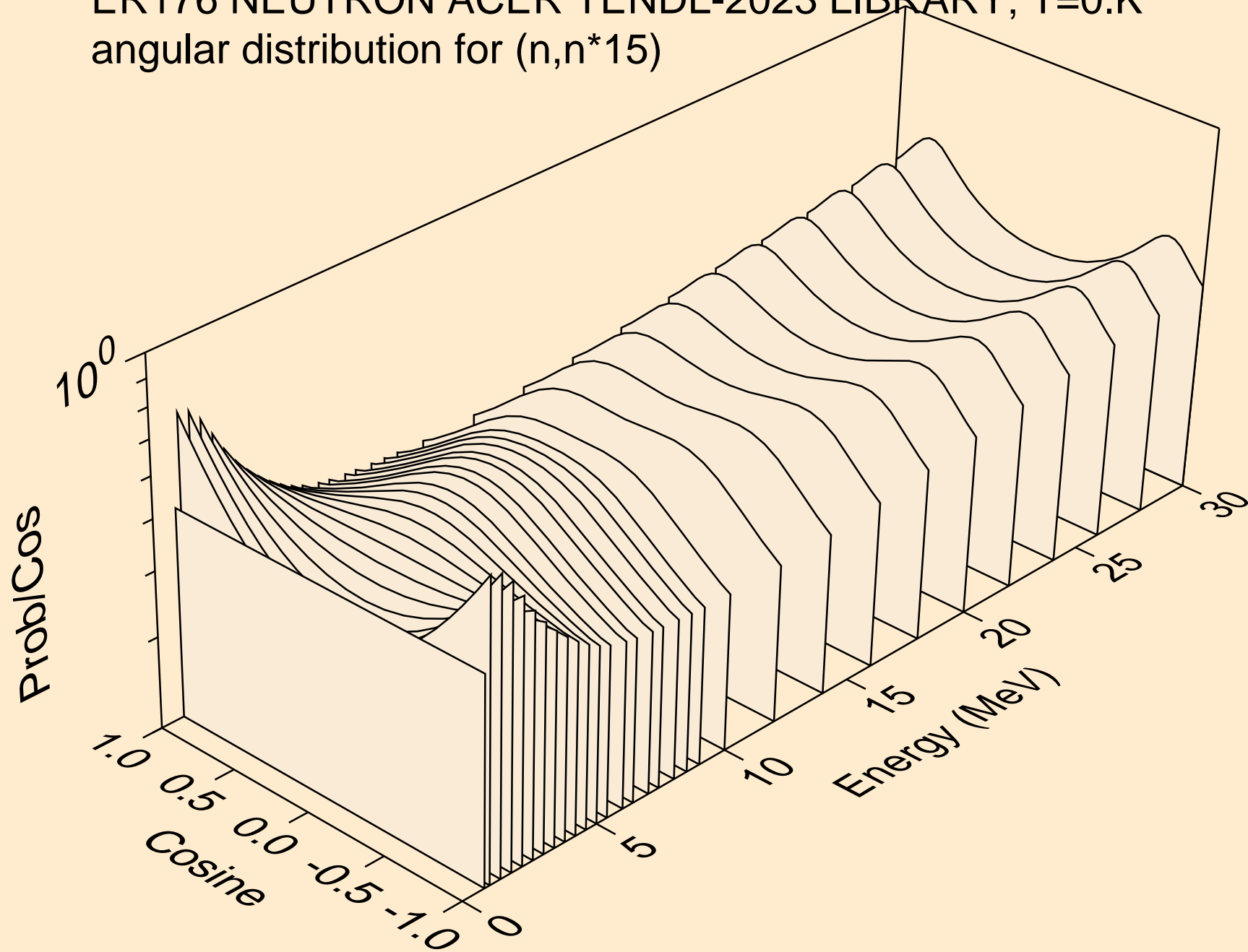
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



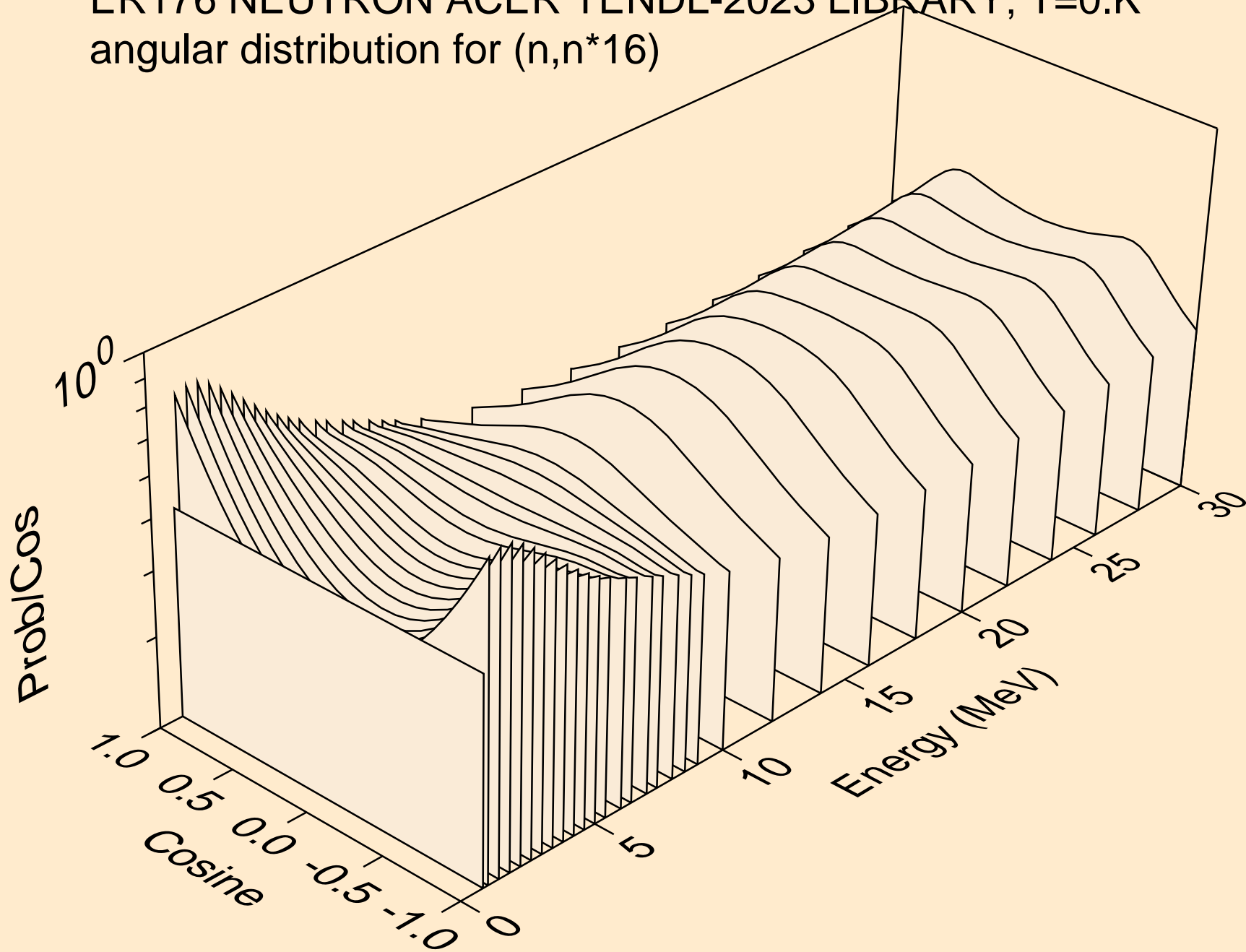
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*14)



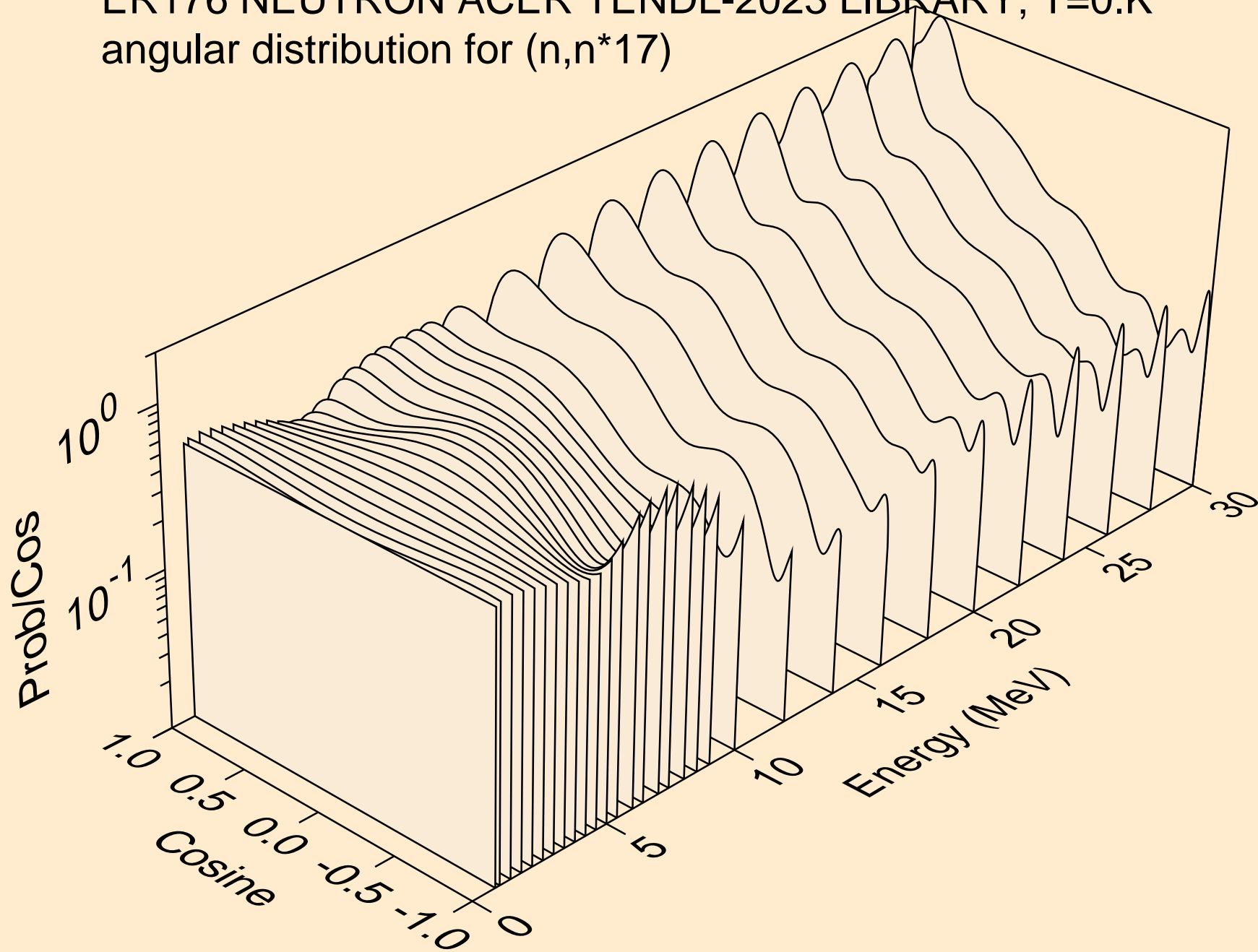
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*15)



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*16)

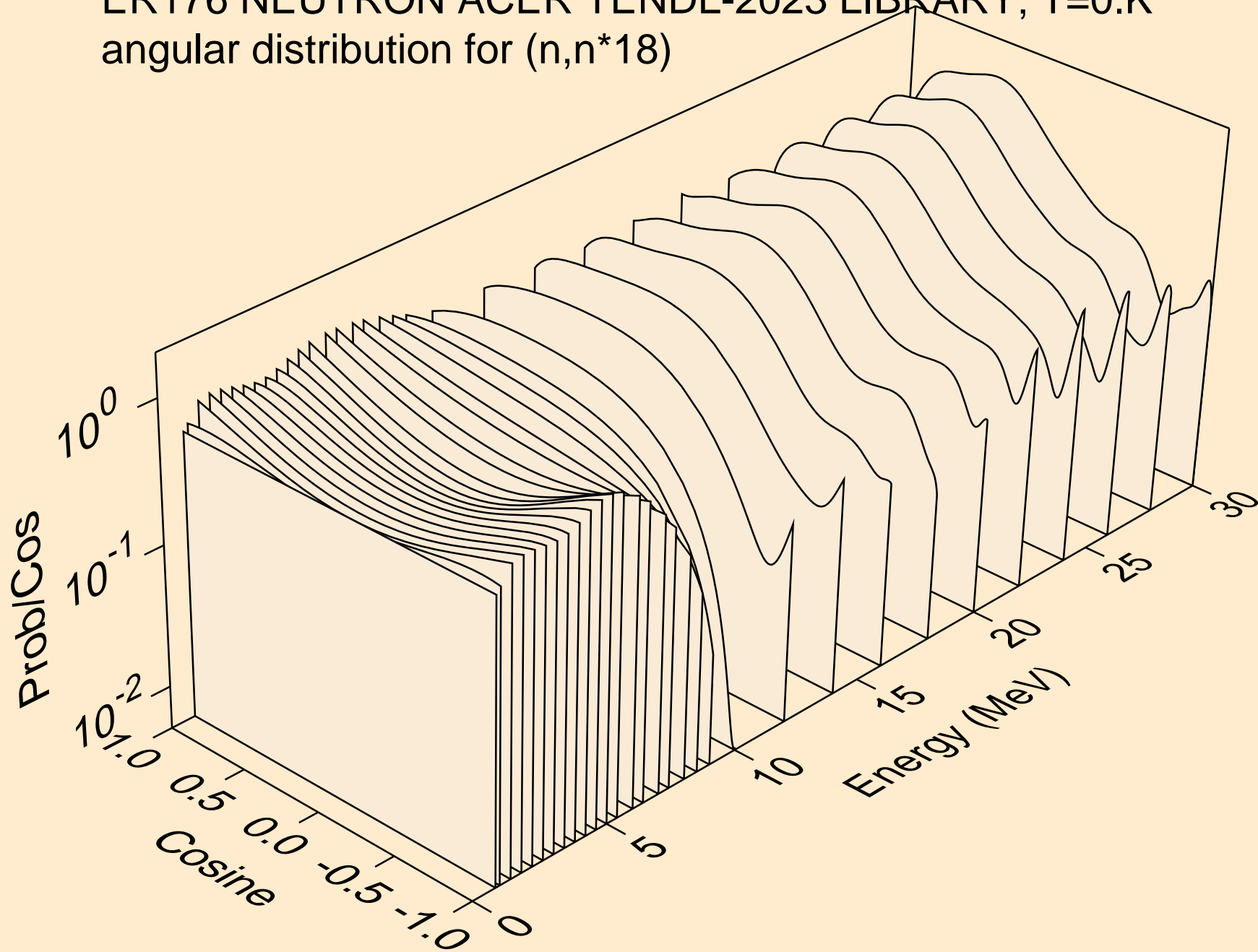


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*17)

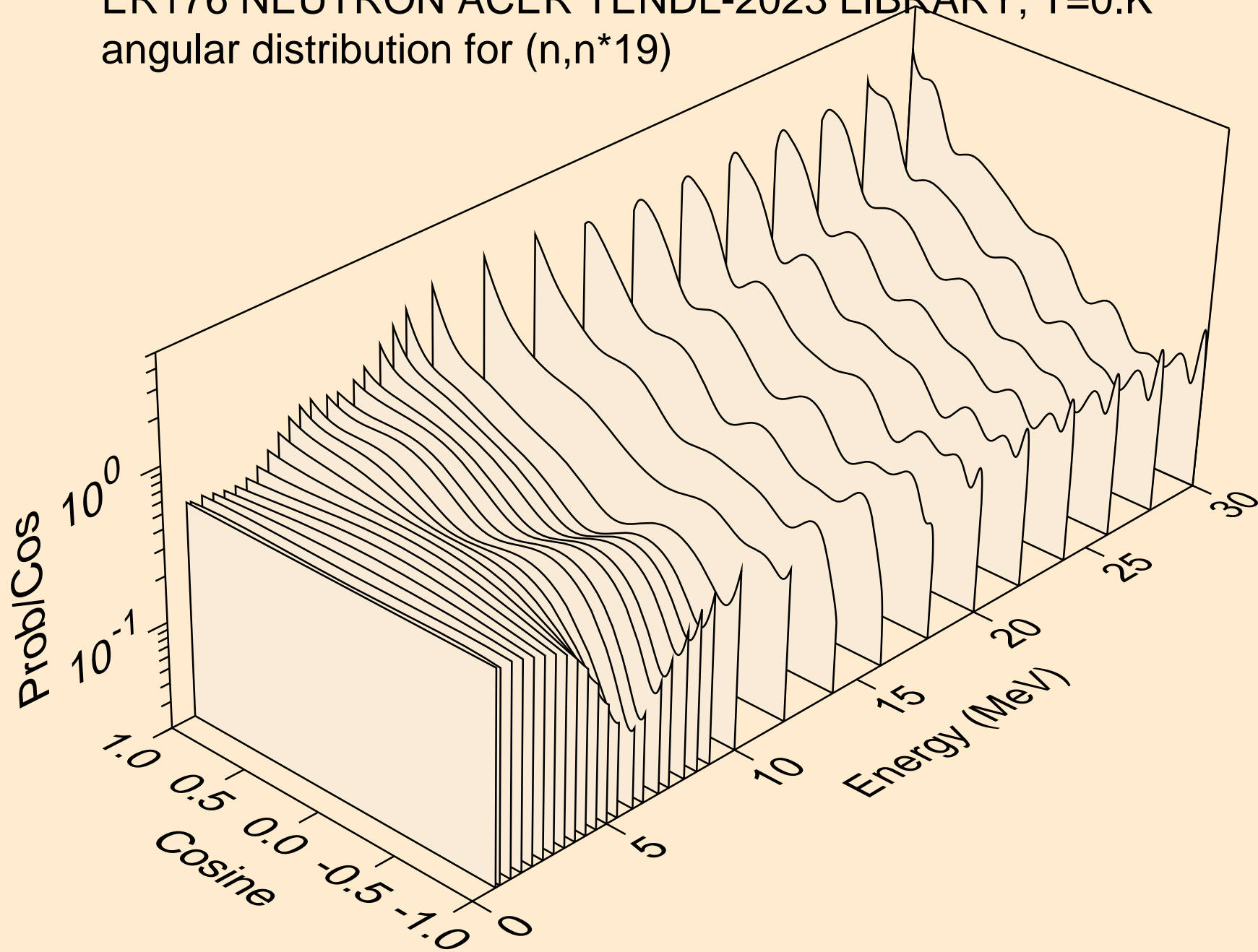




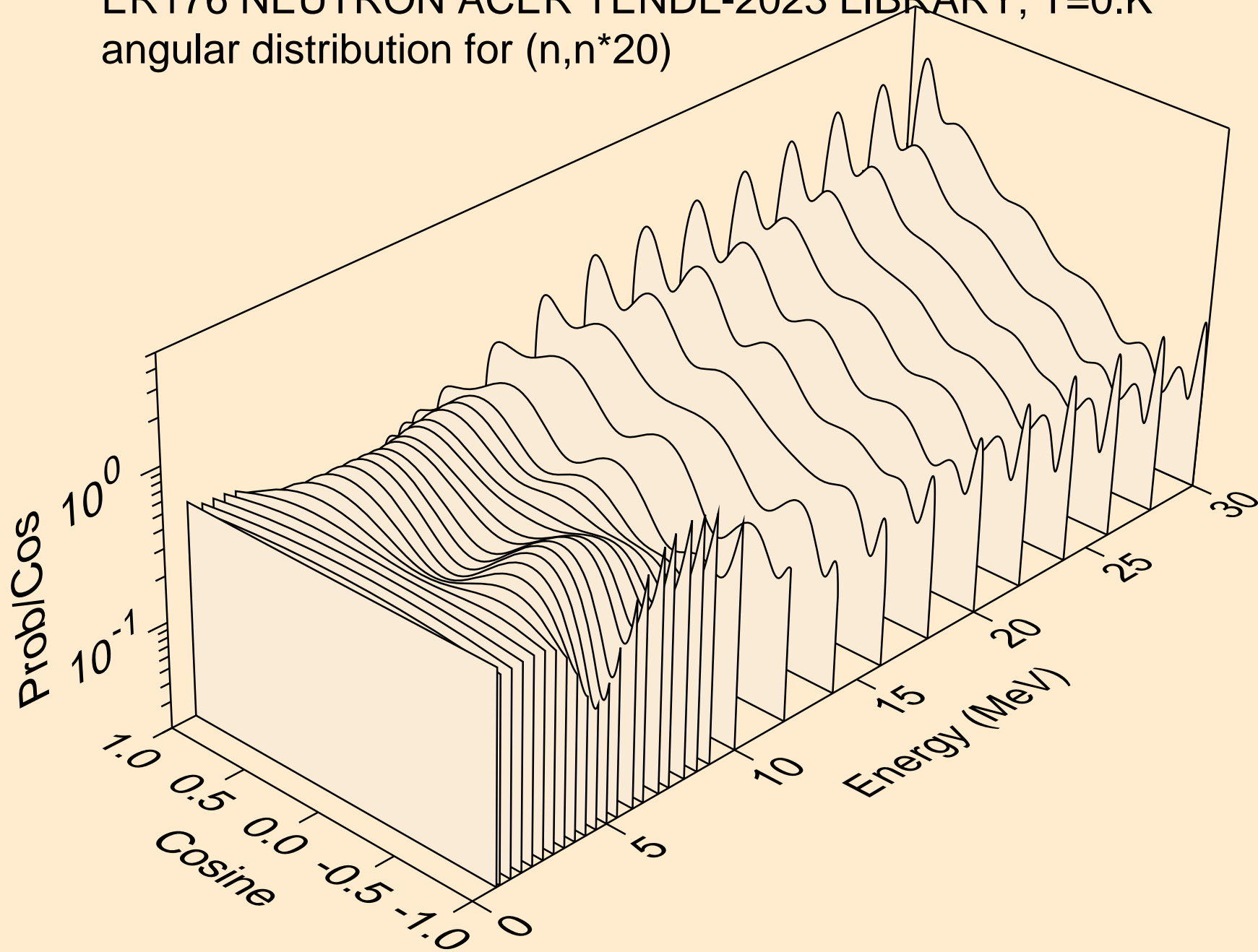
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*18)



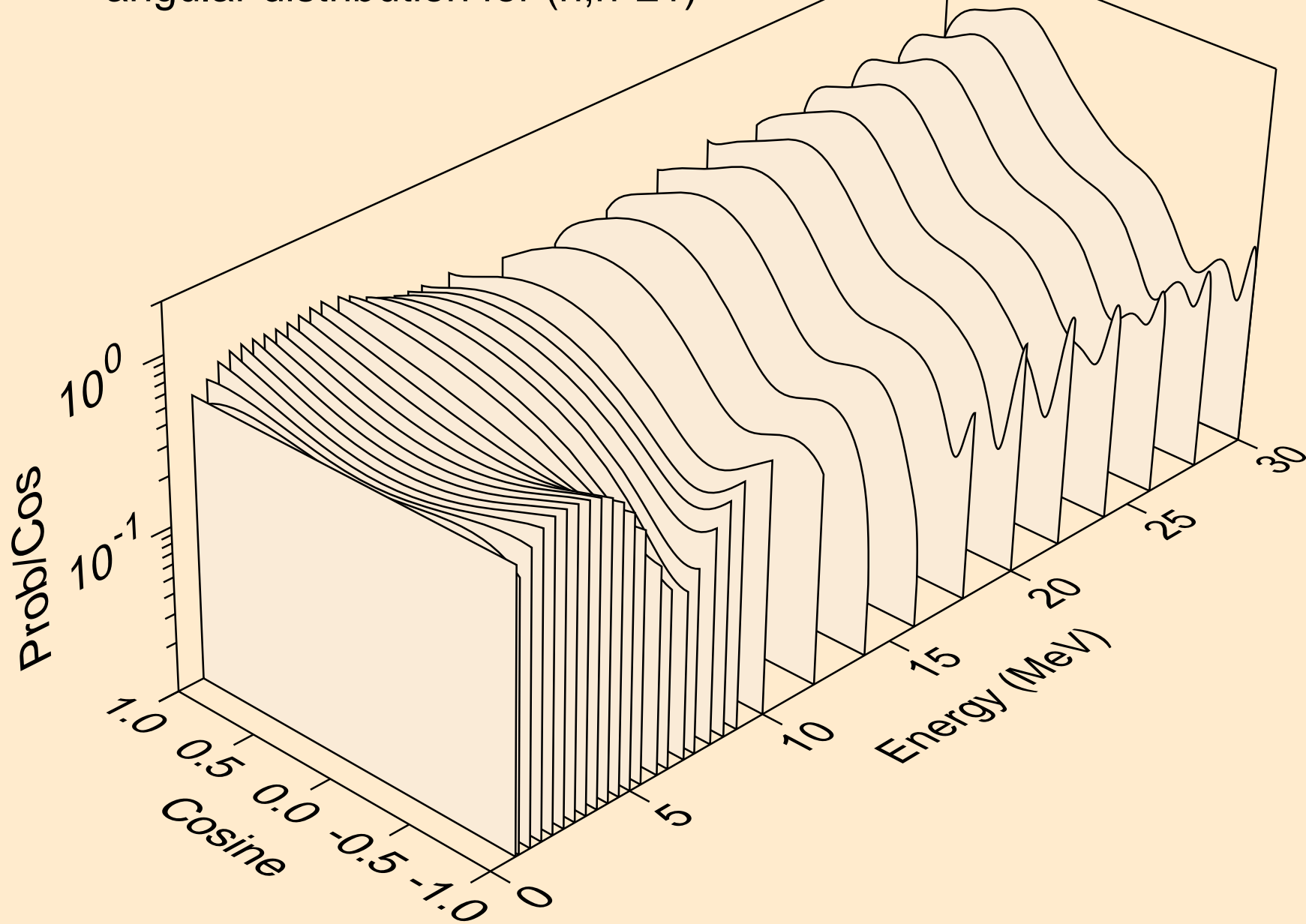
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*19)



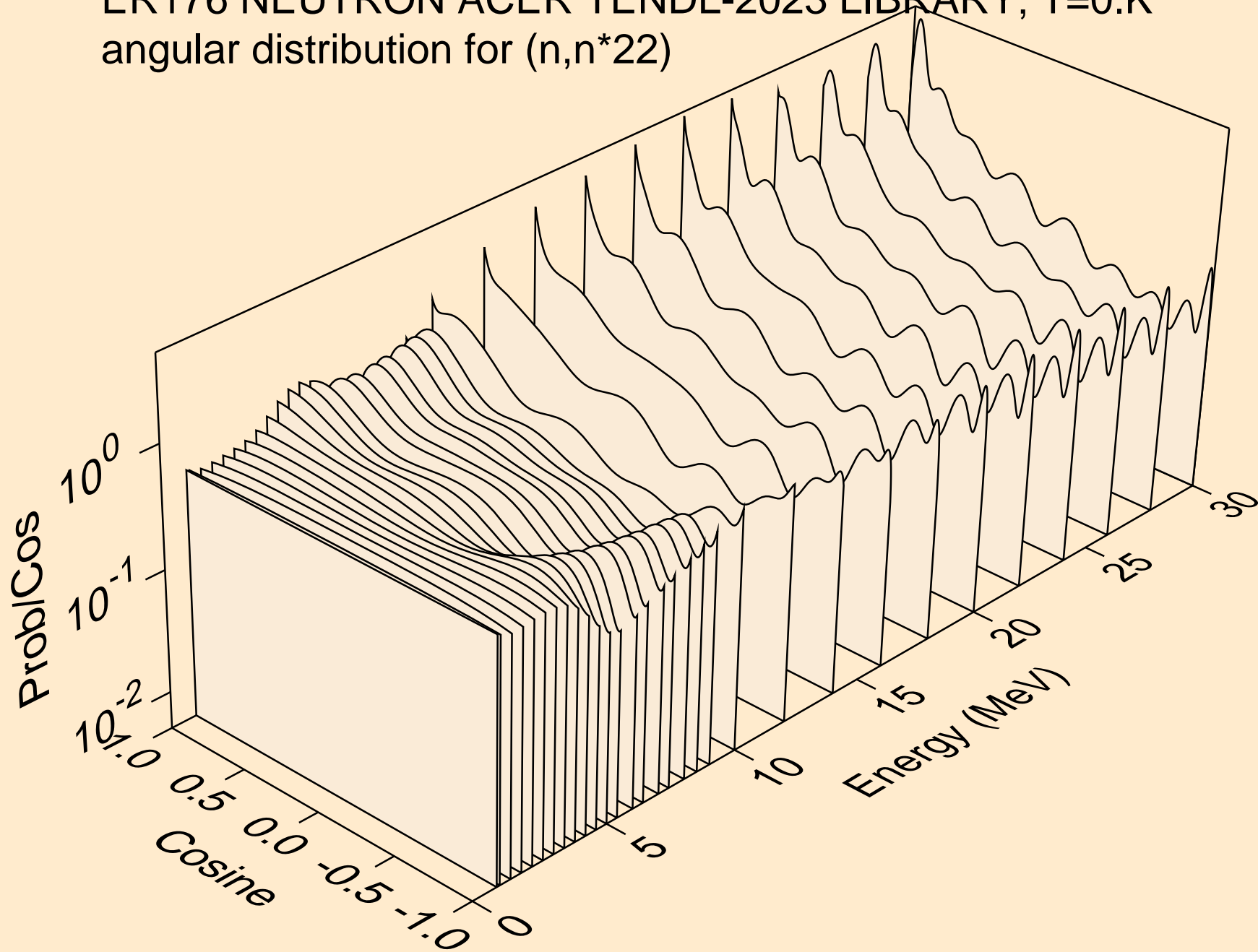
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*20)



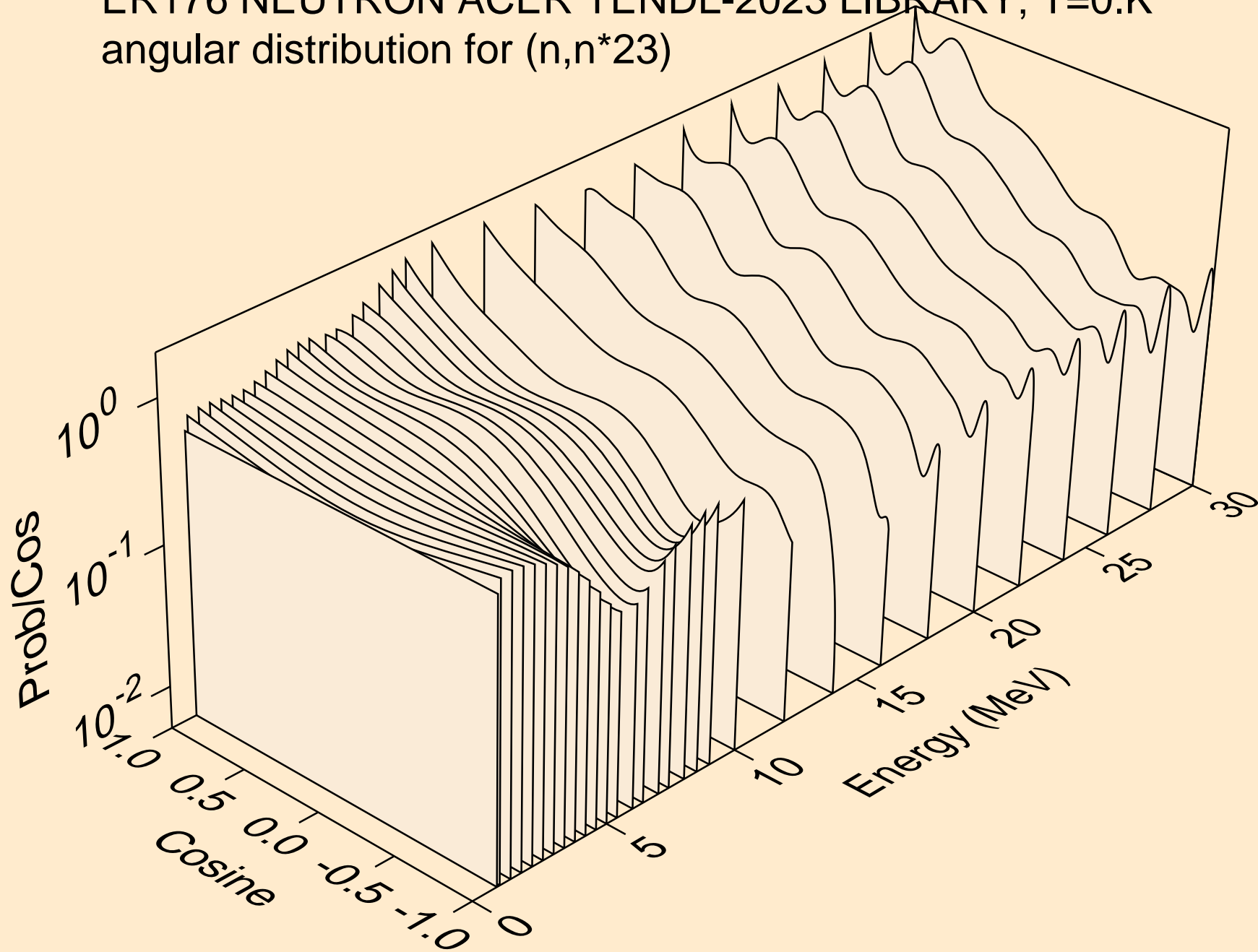
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angular distribution for (n,n\*21)



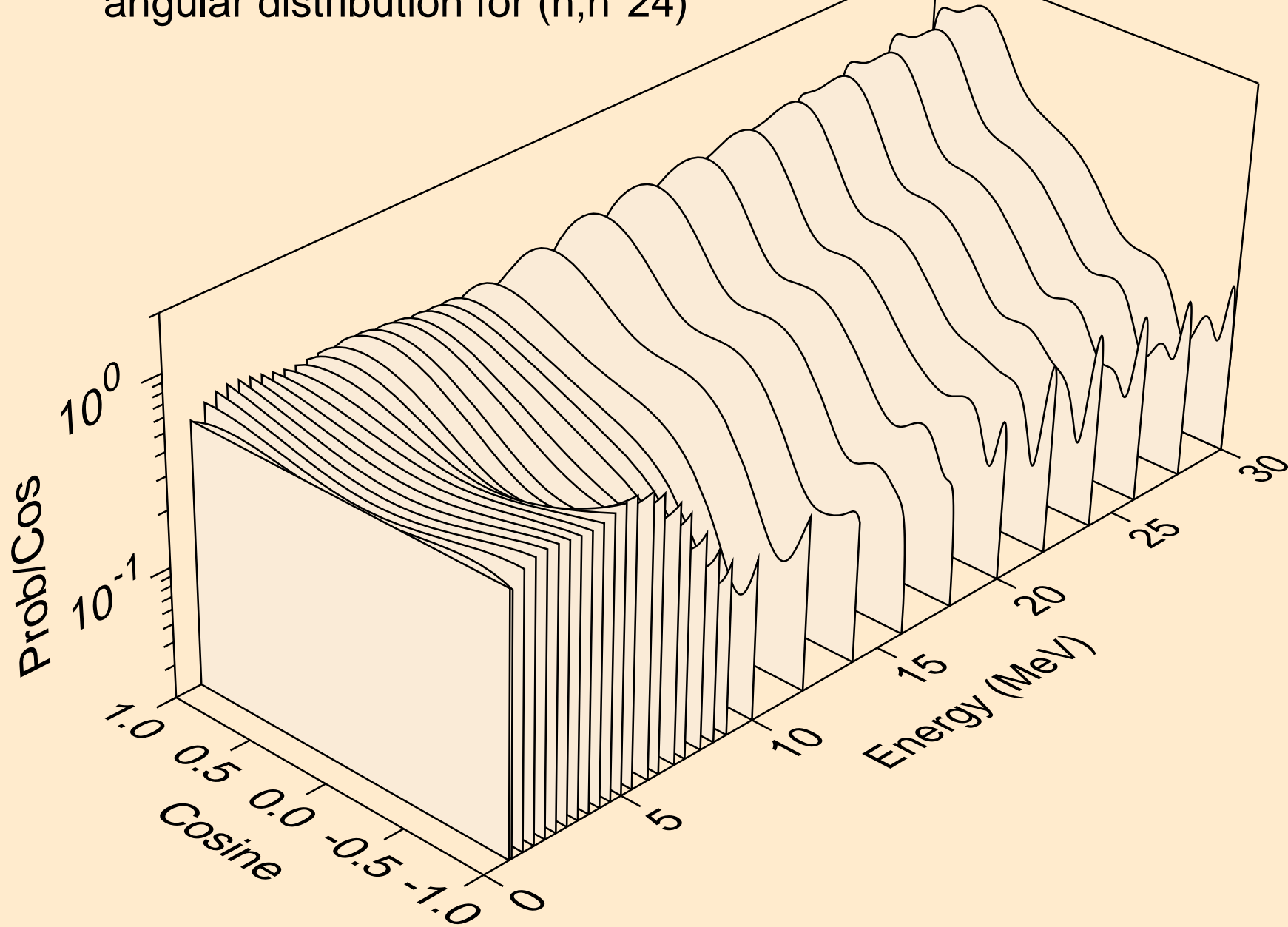
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*22)



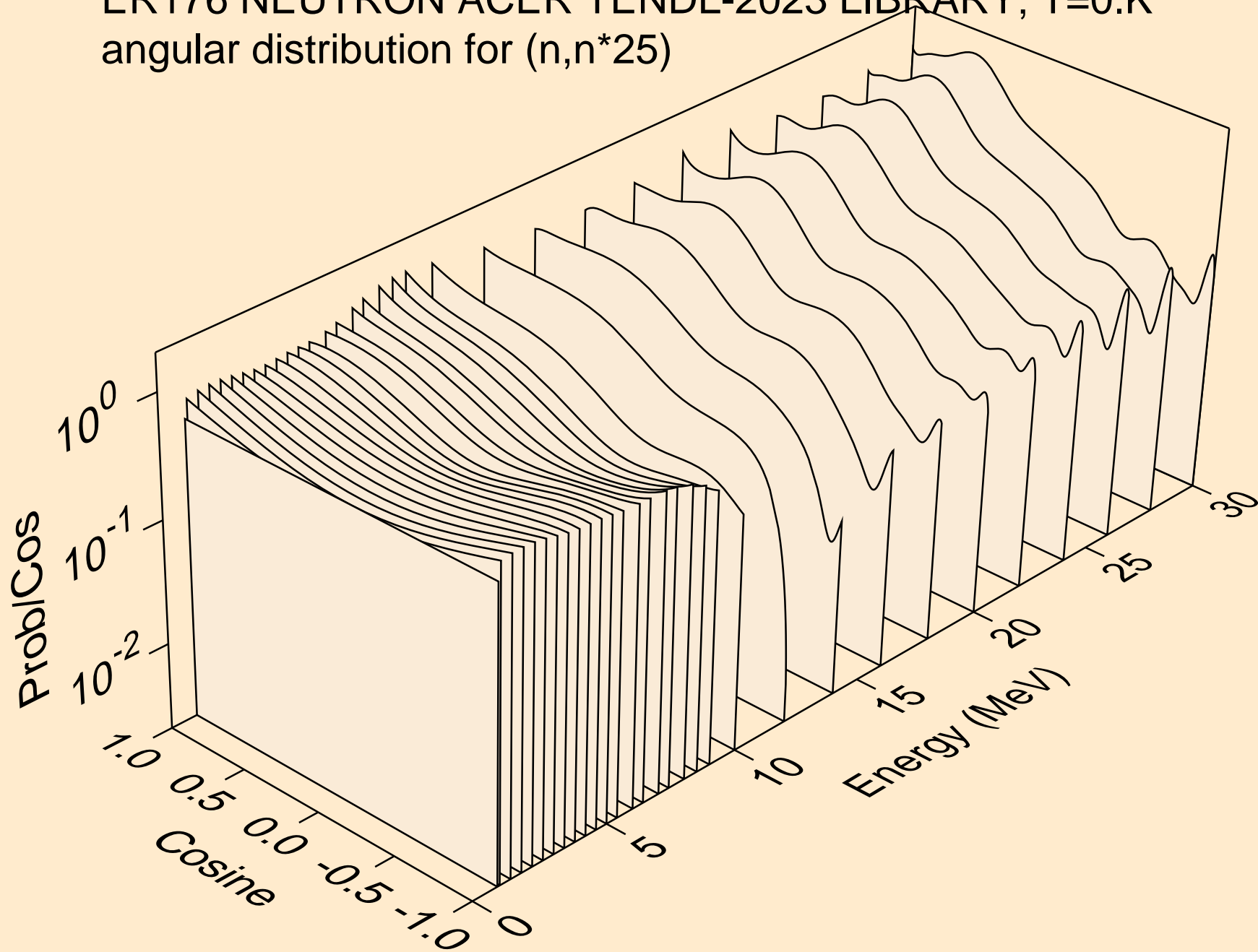
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*23)



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*24)

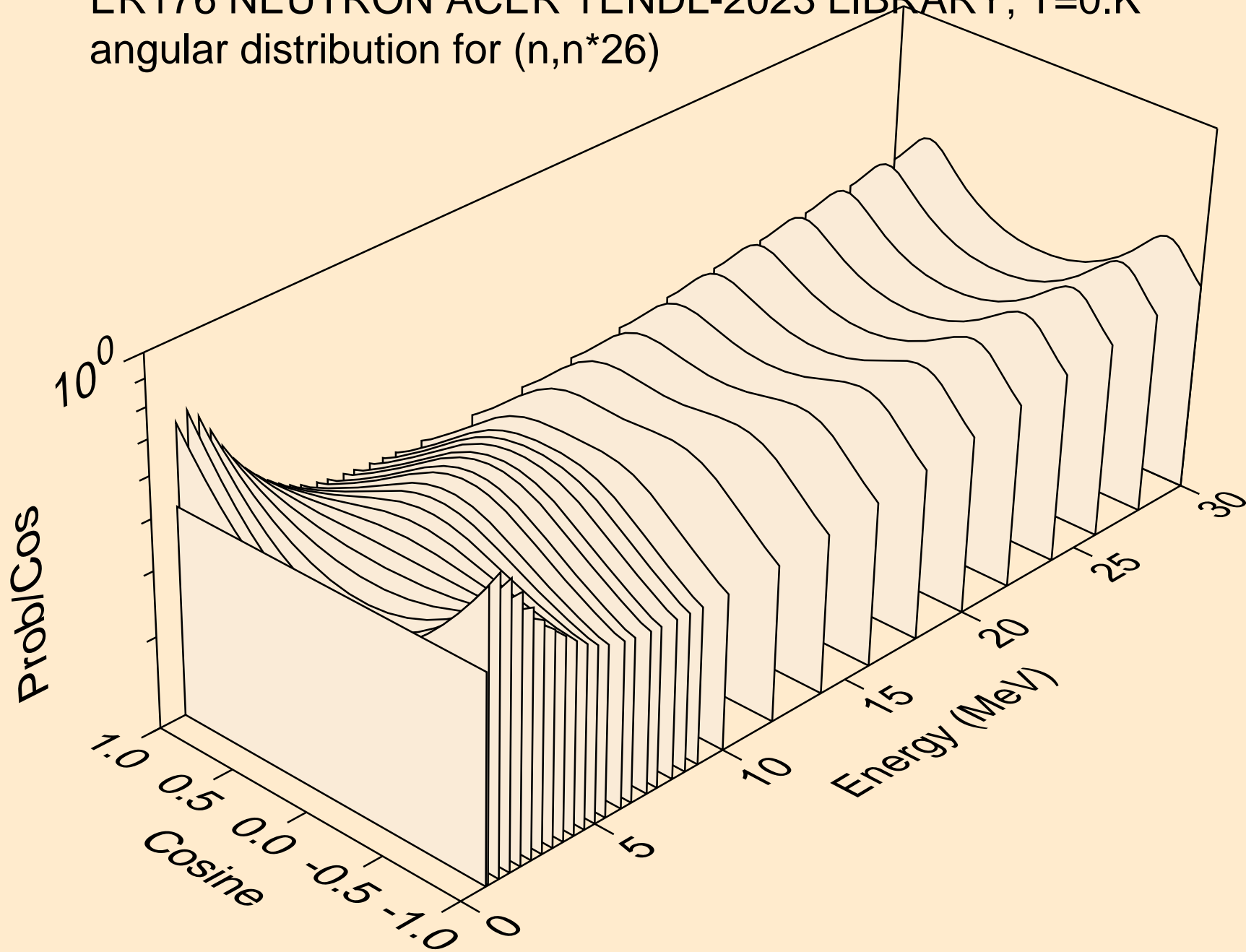


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*25)

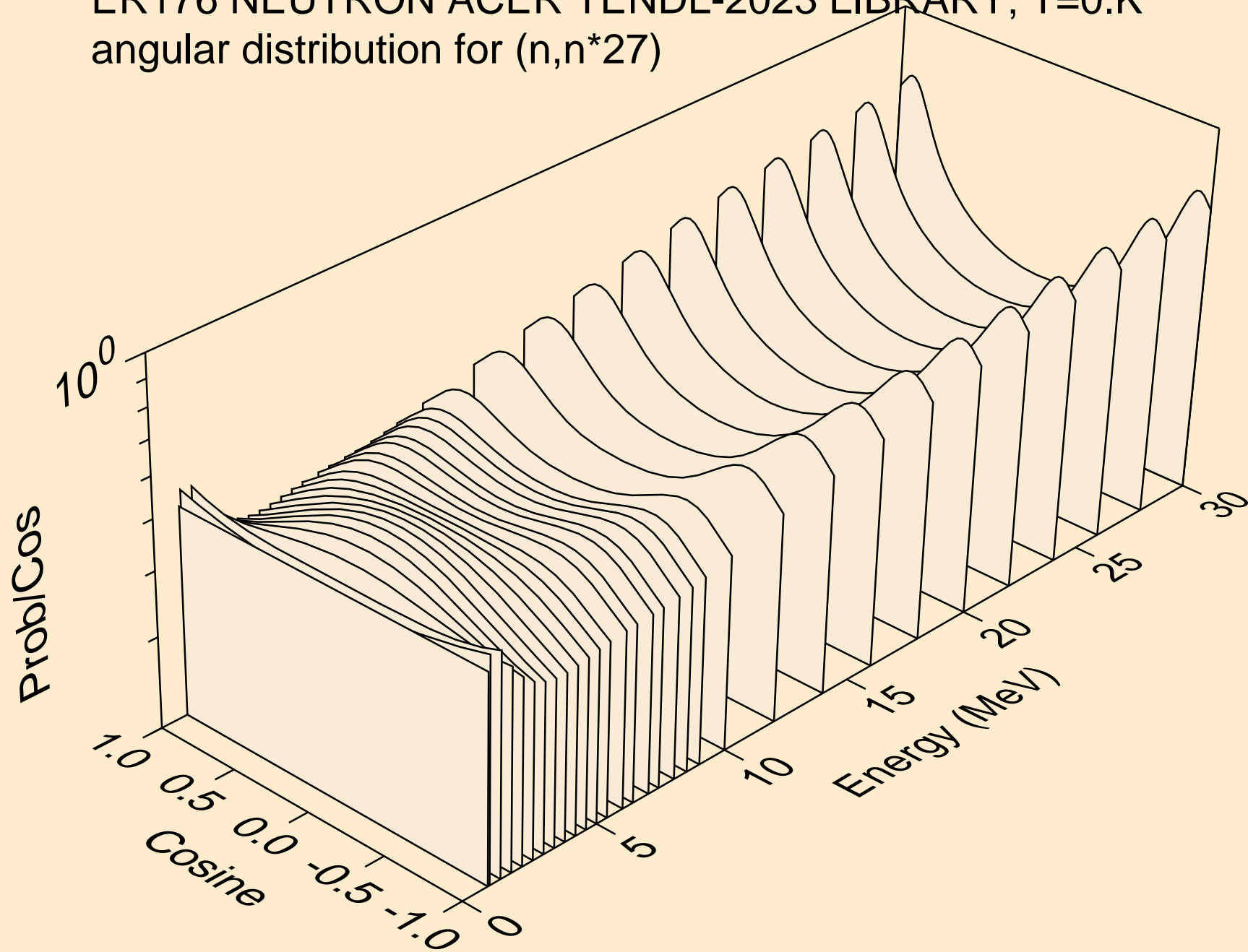




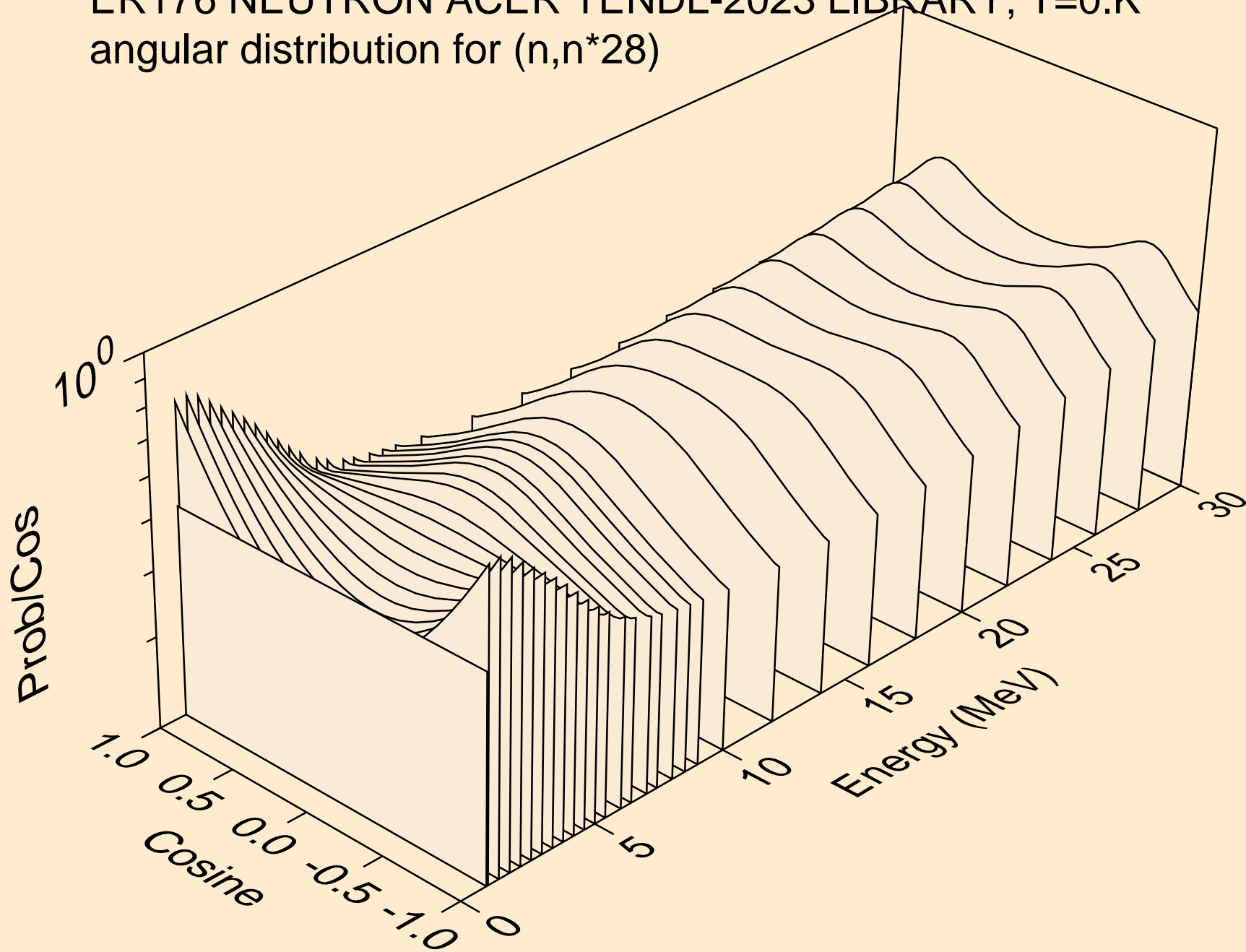
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*26)



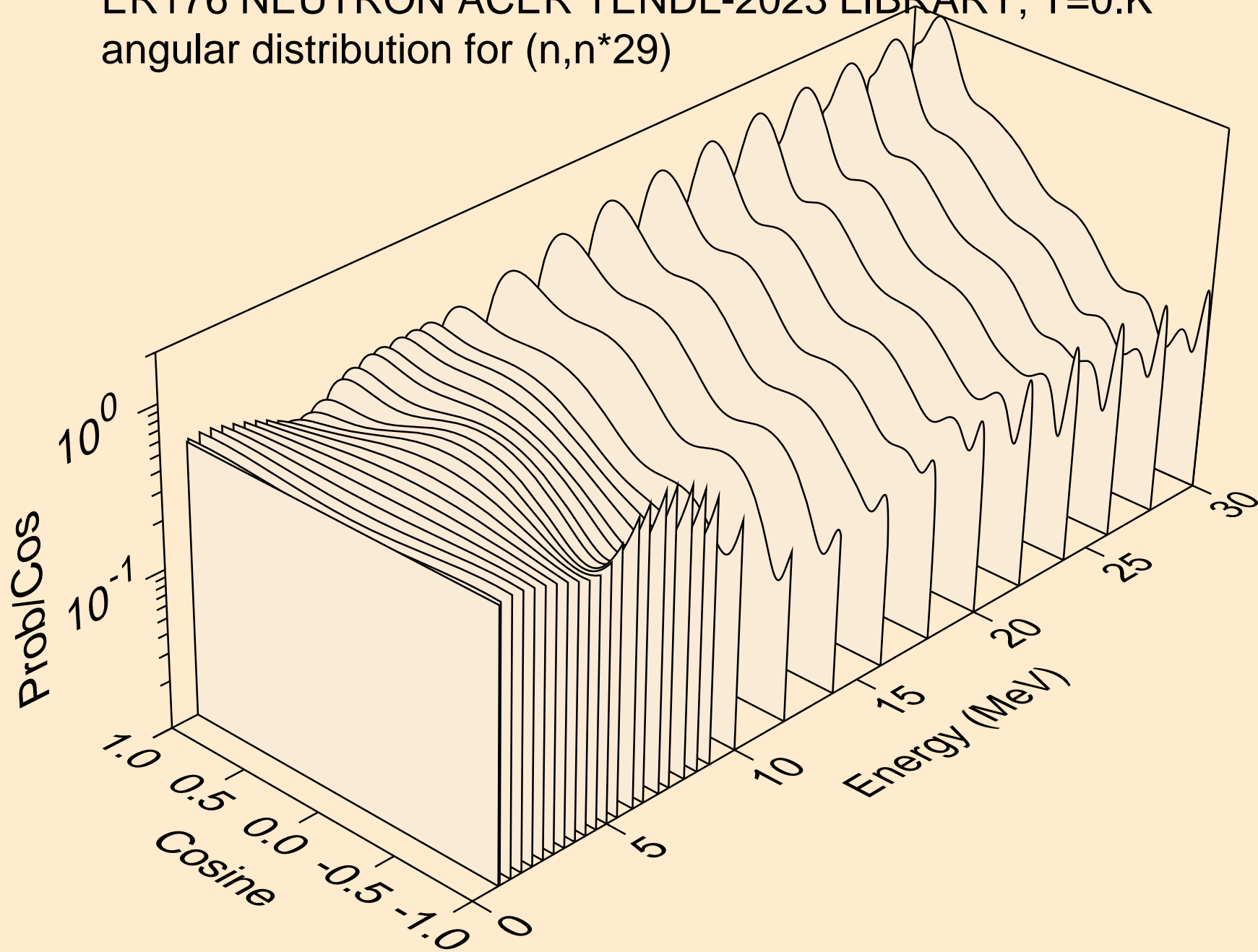
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*27)



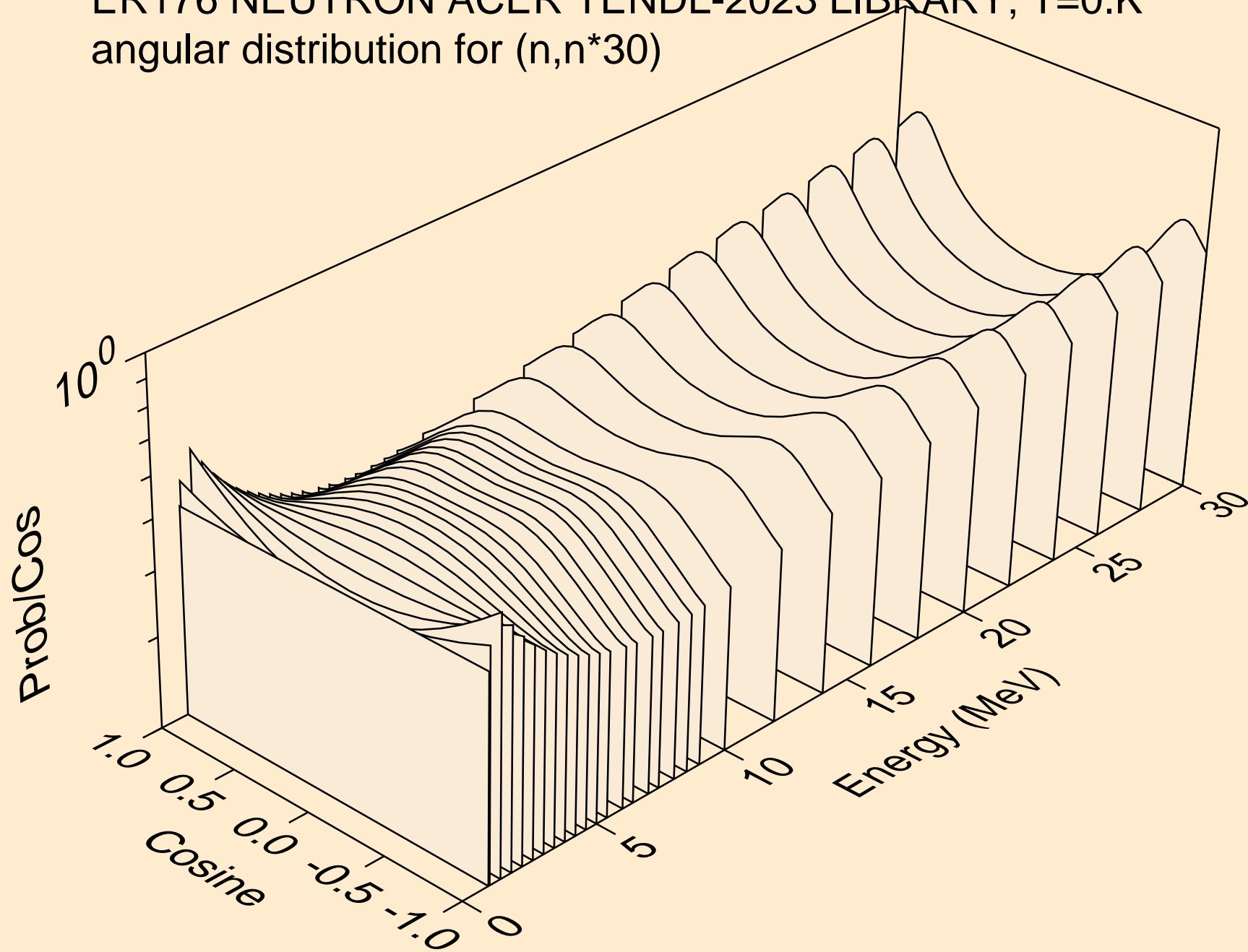
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*28)



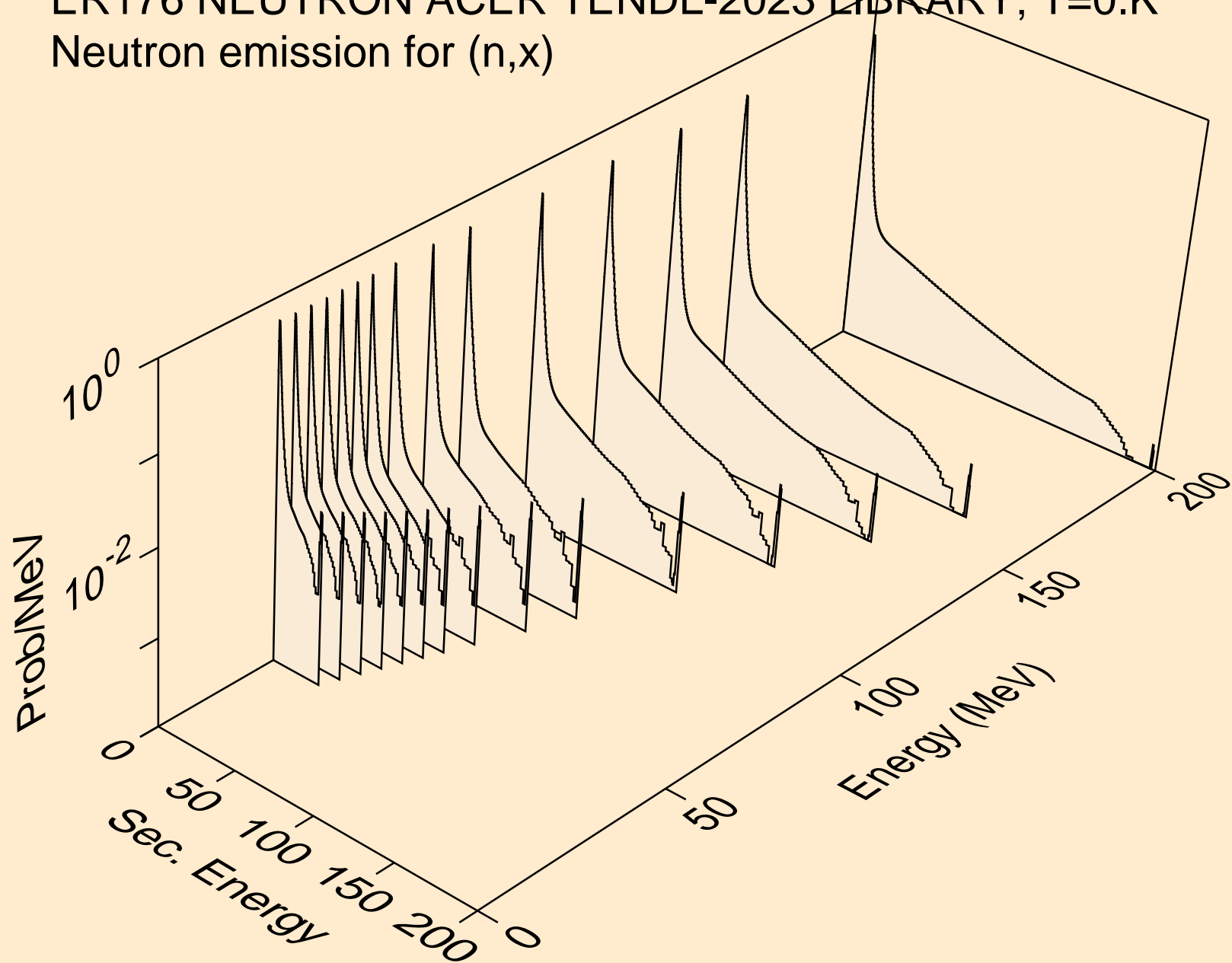
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*29)



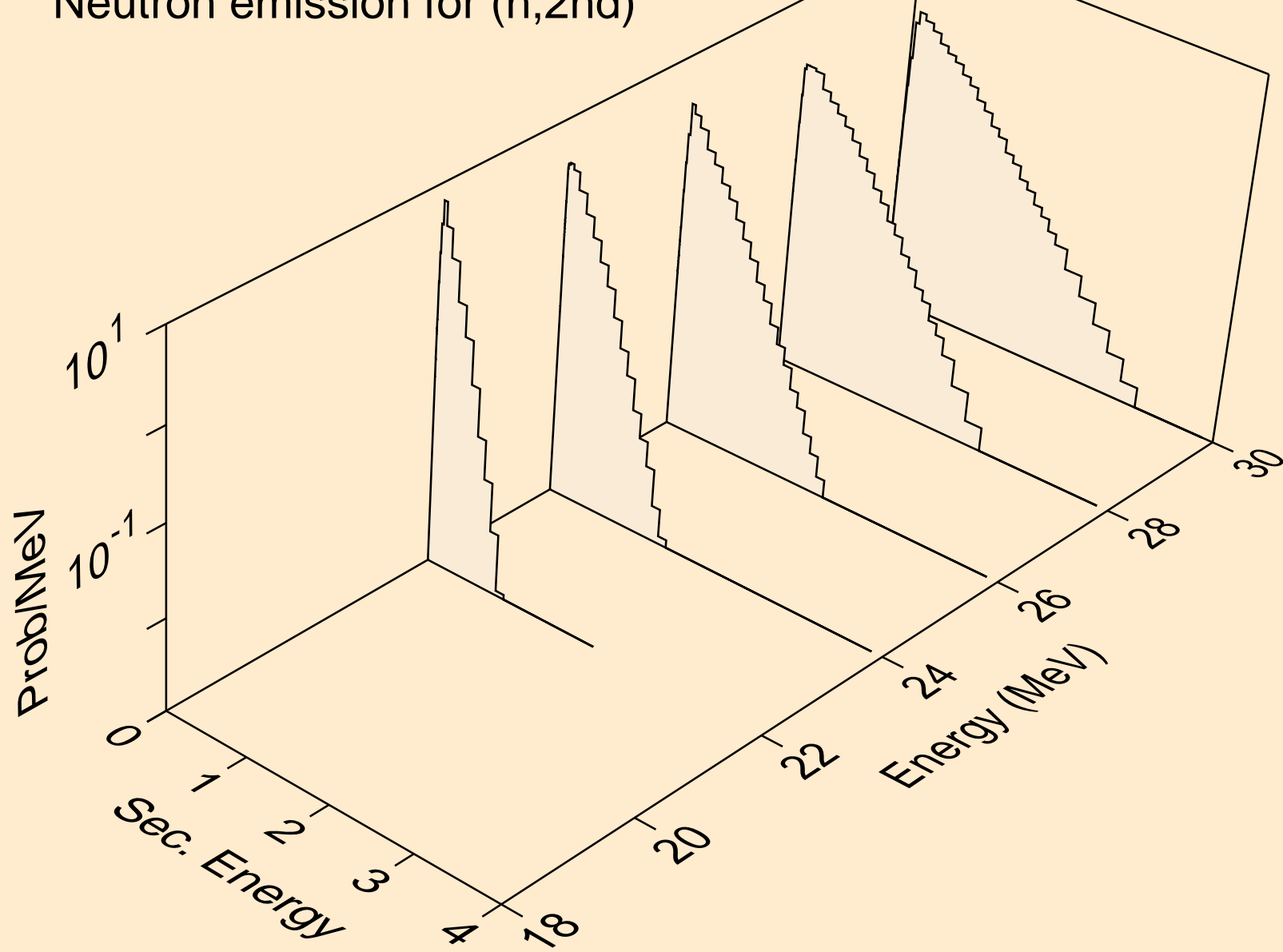
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*30)



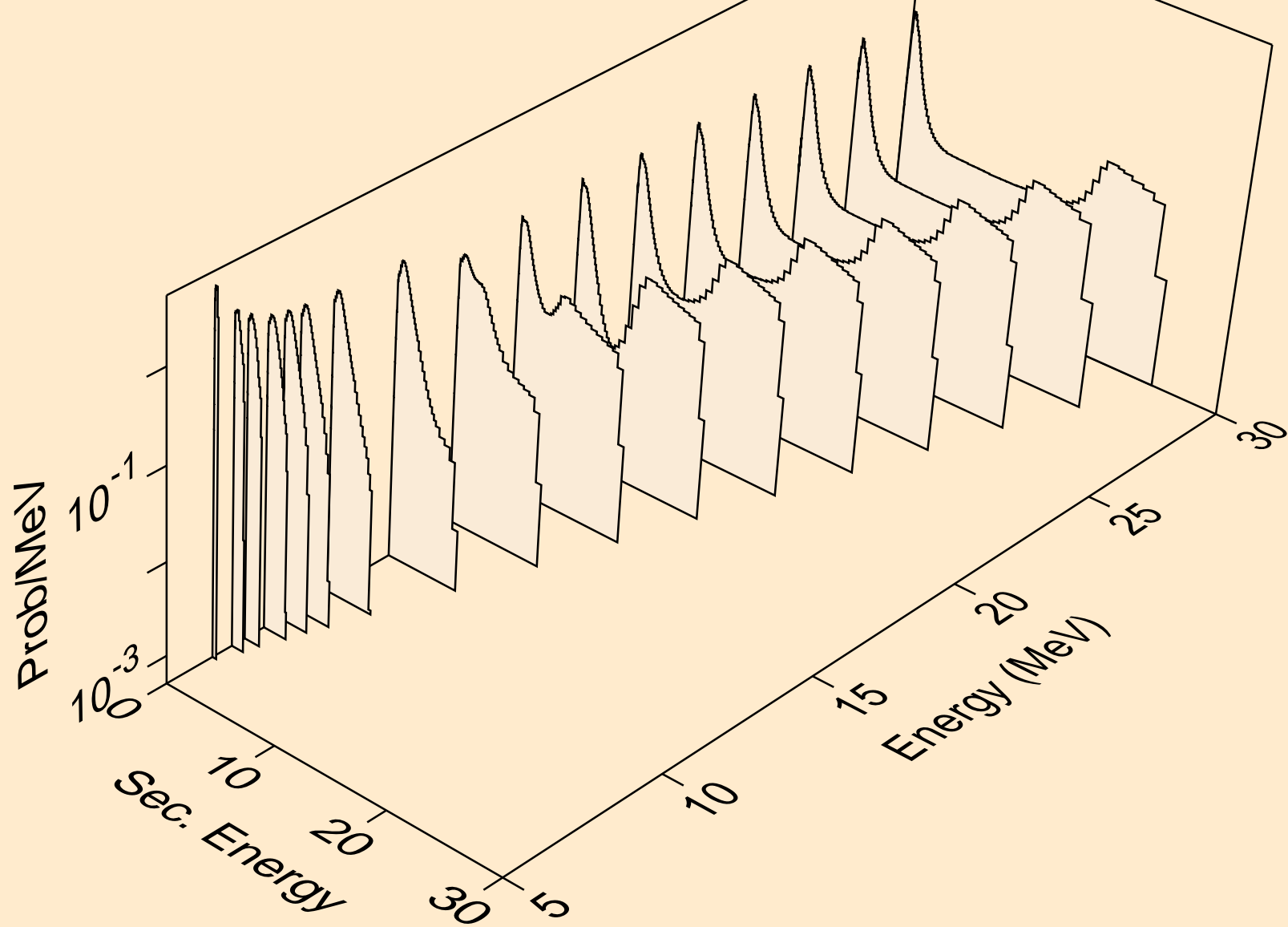
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)

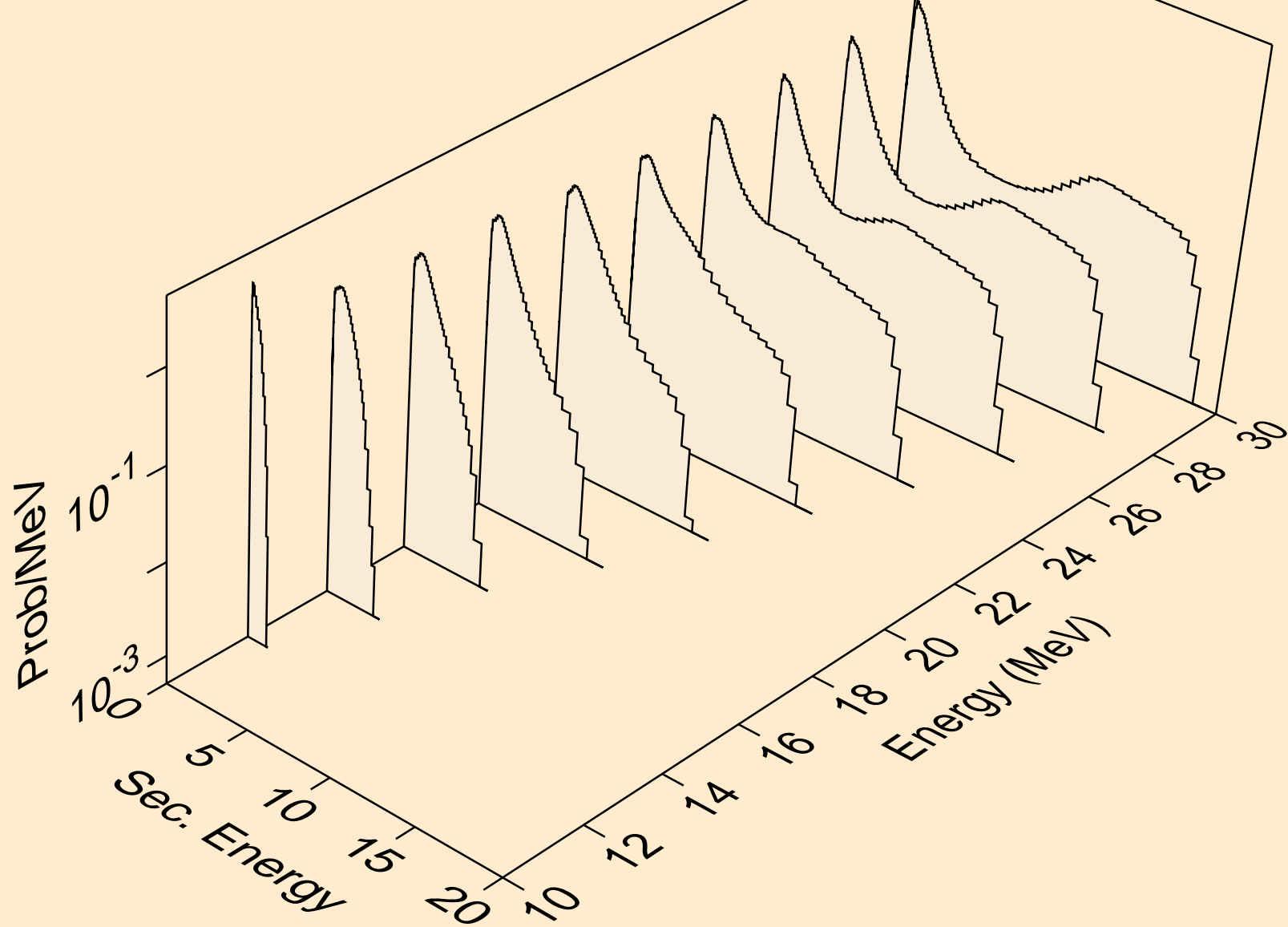


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)

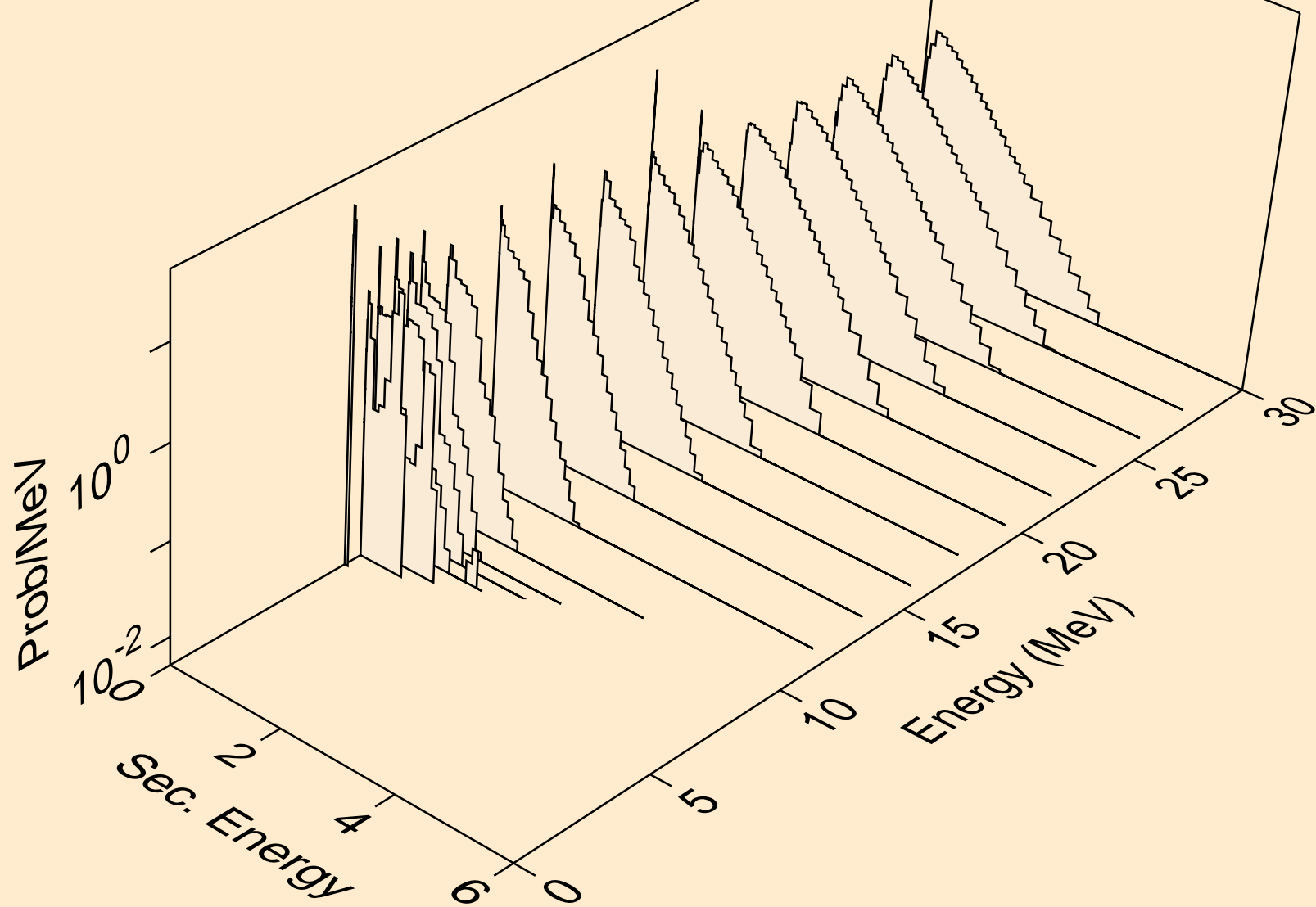




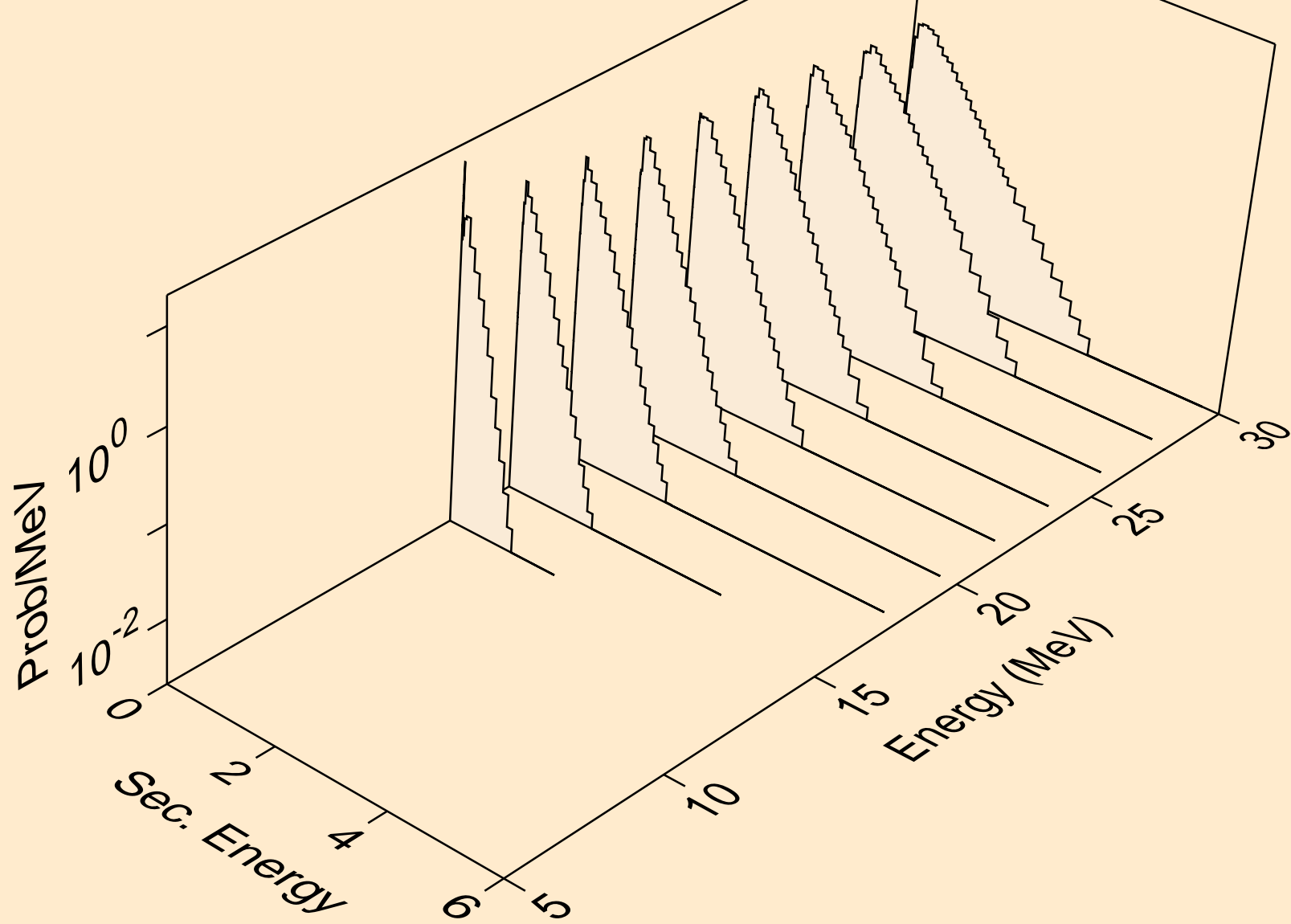
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



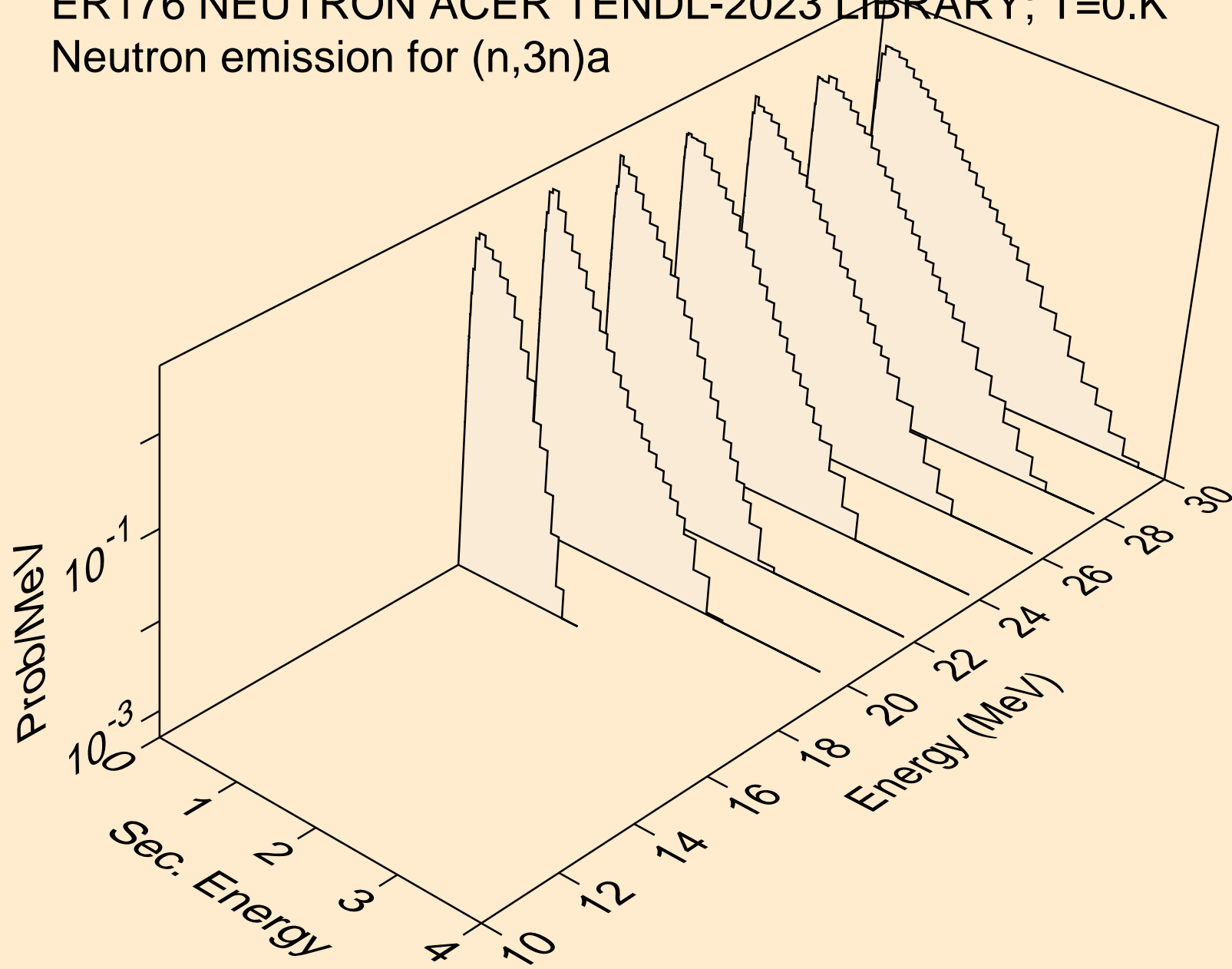
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



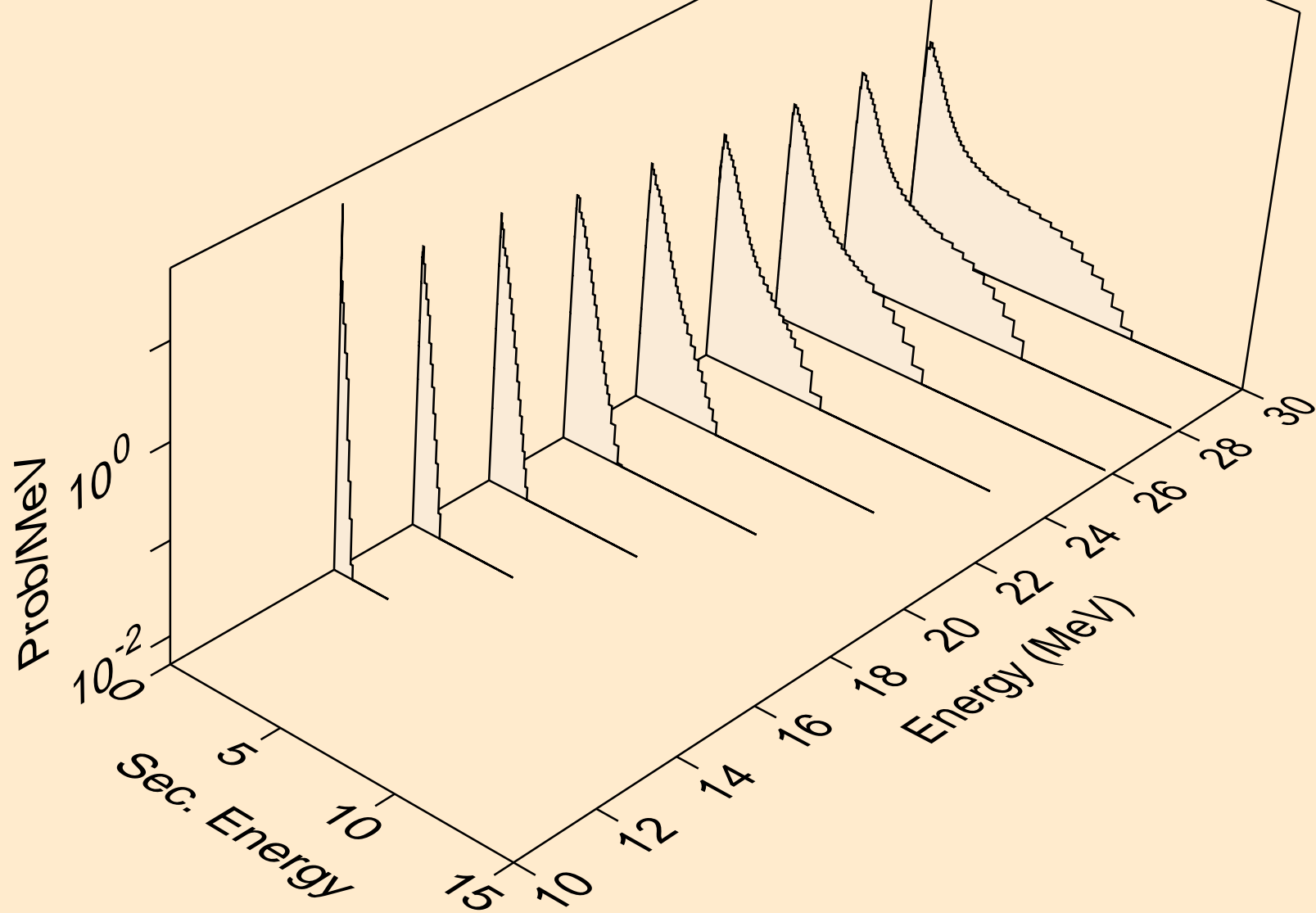
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



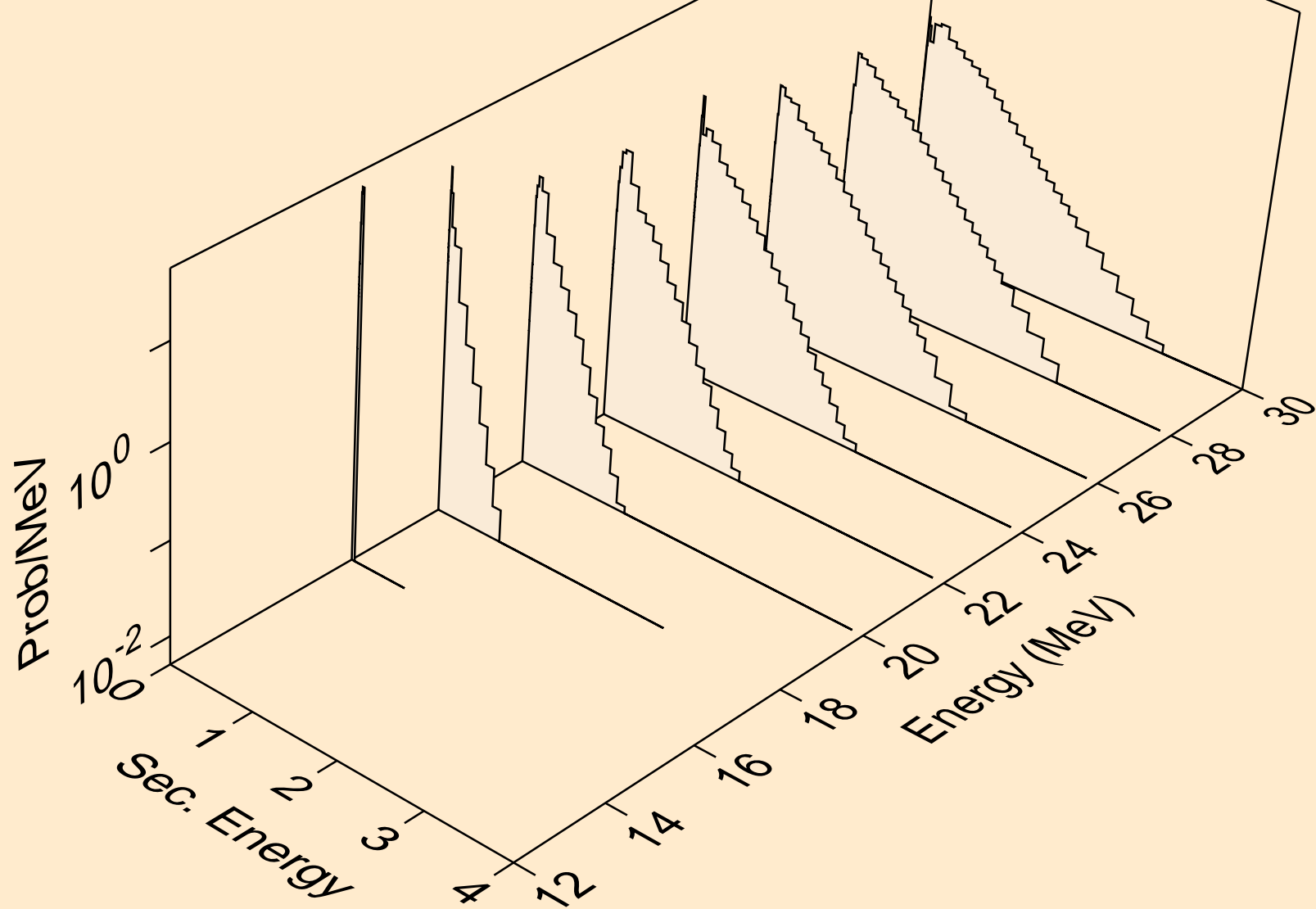
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



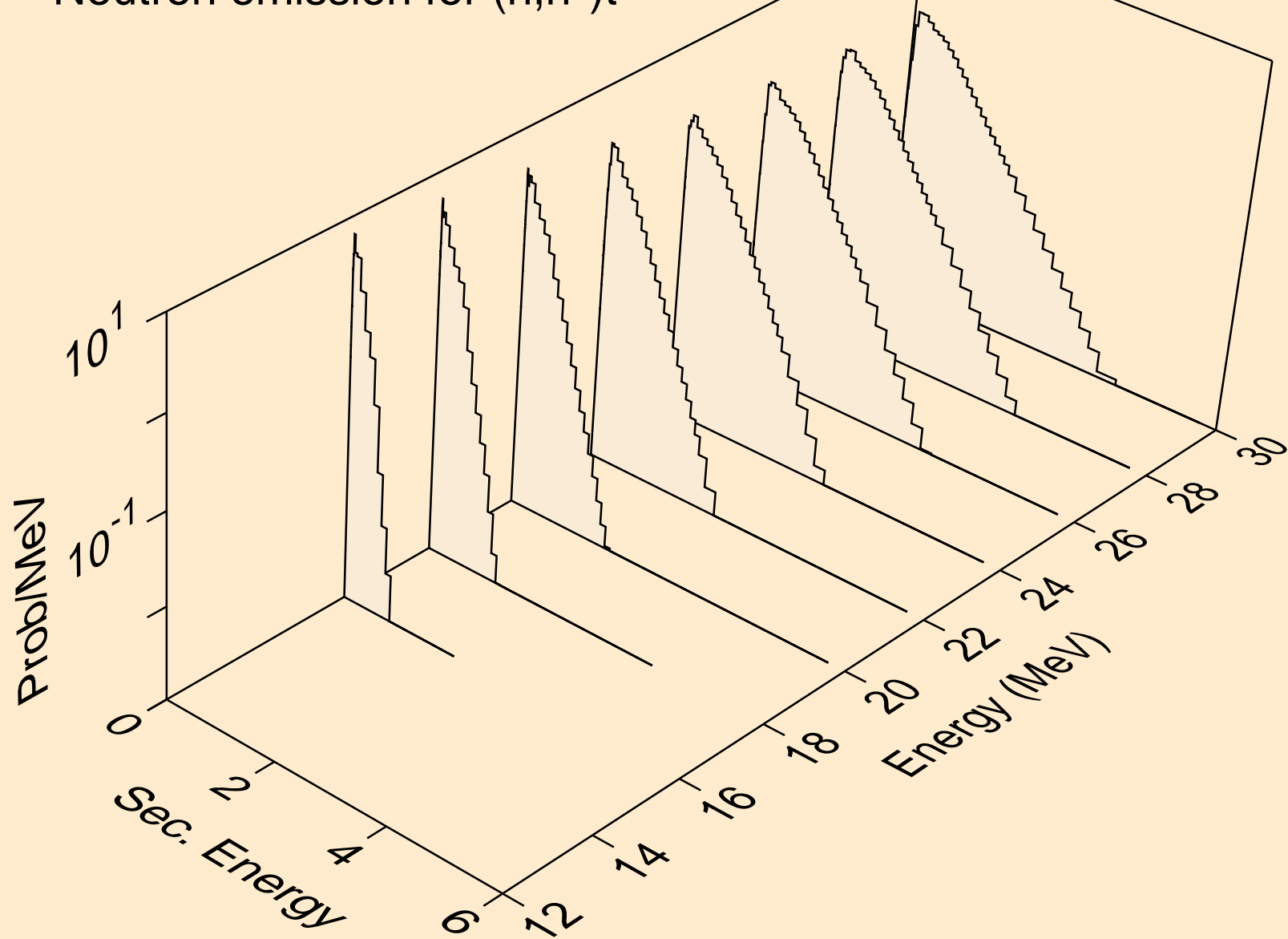
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



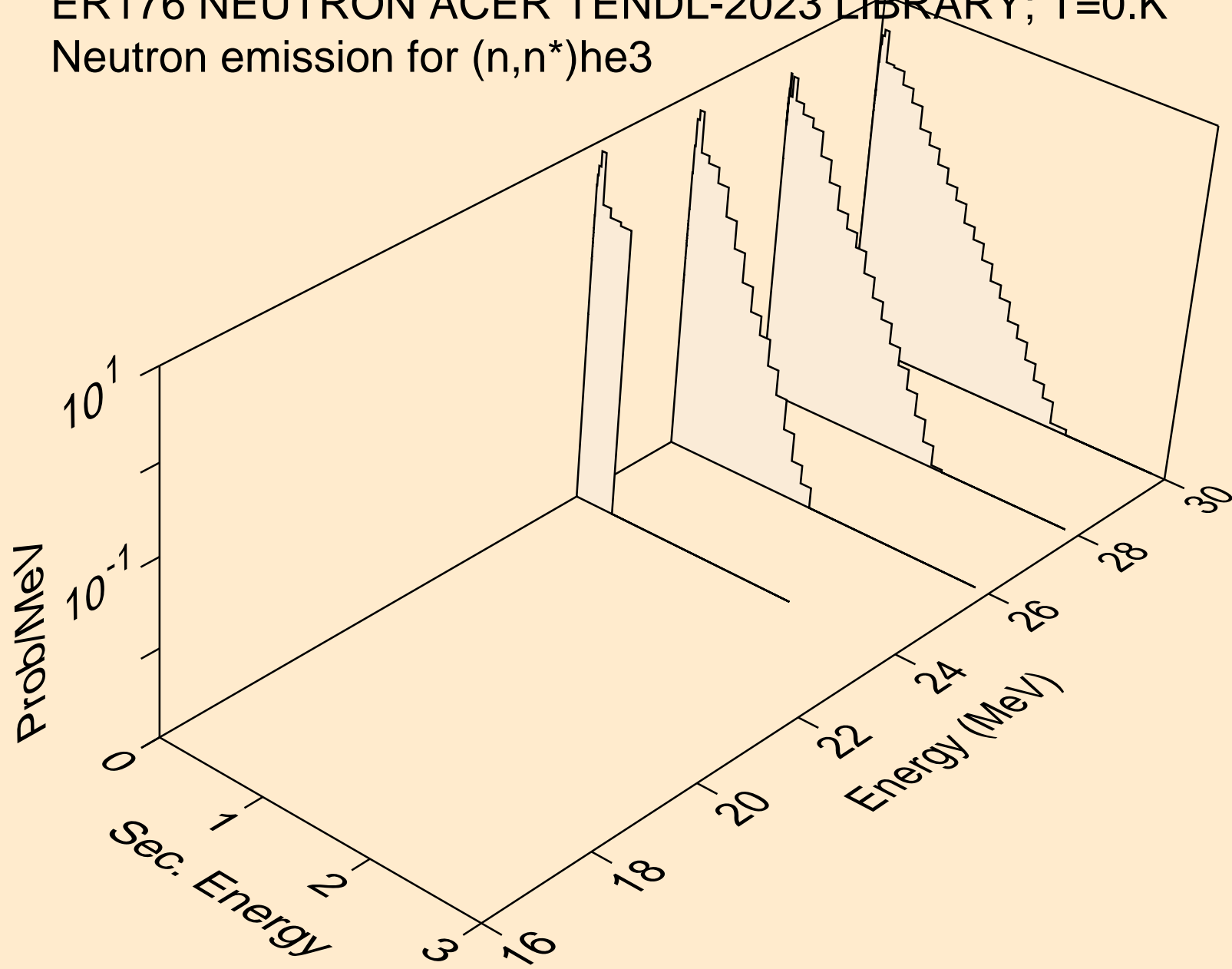
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t

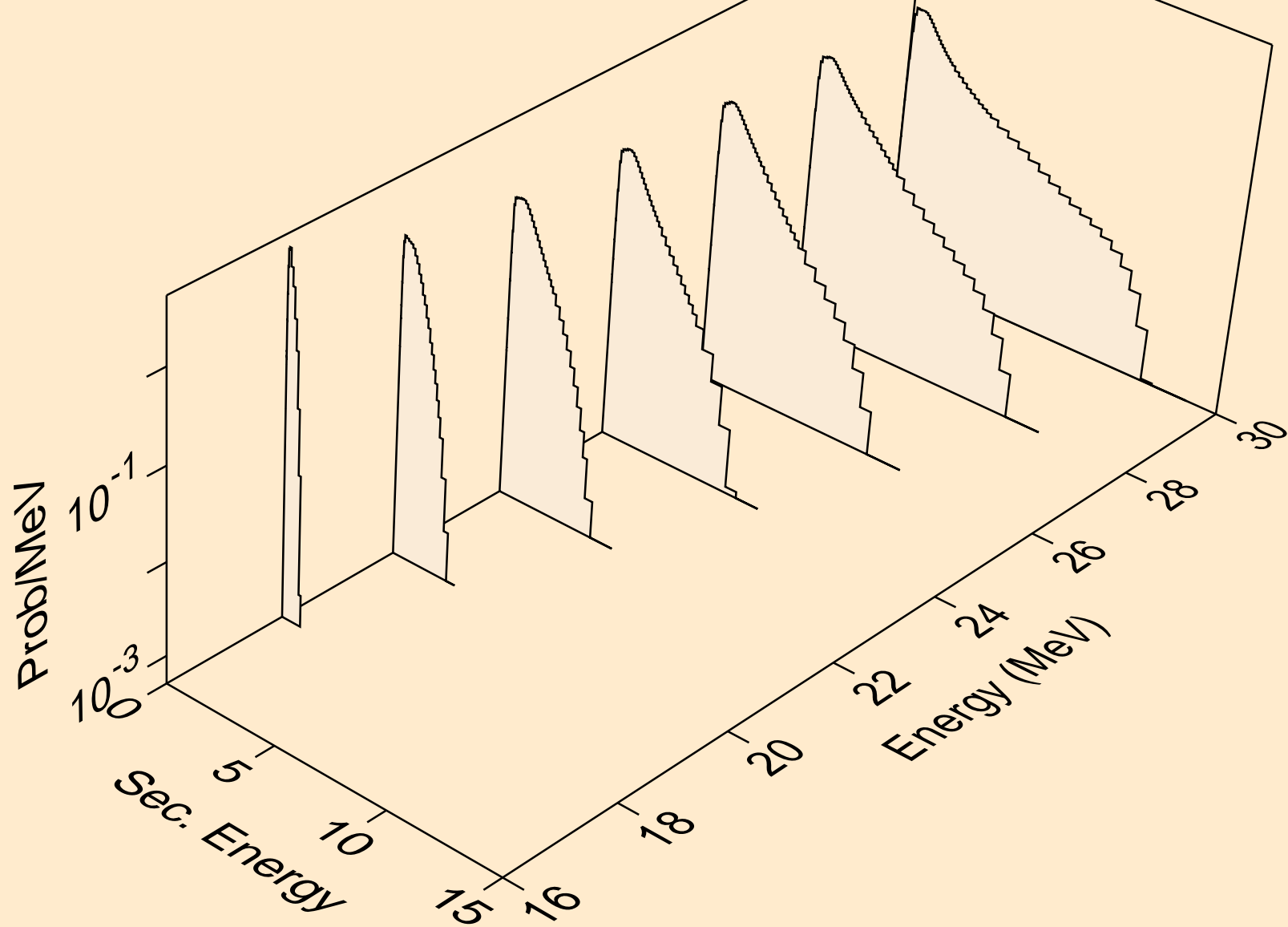


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3

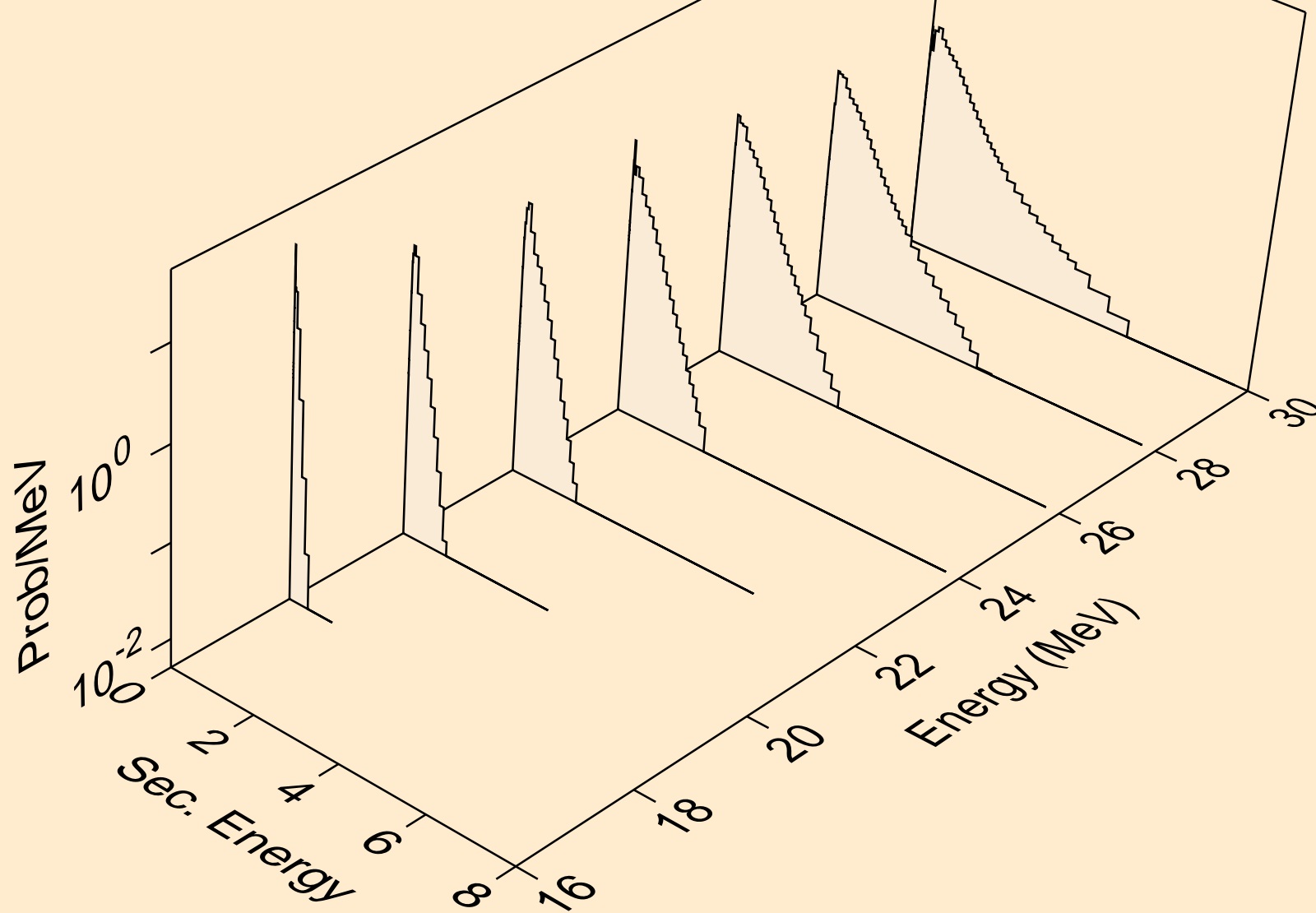




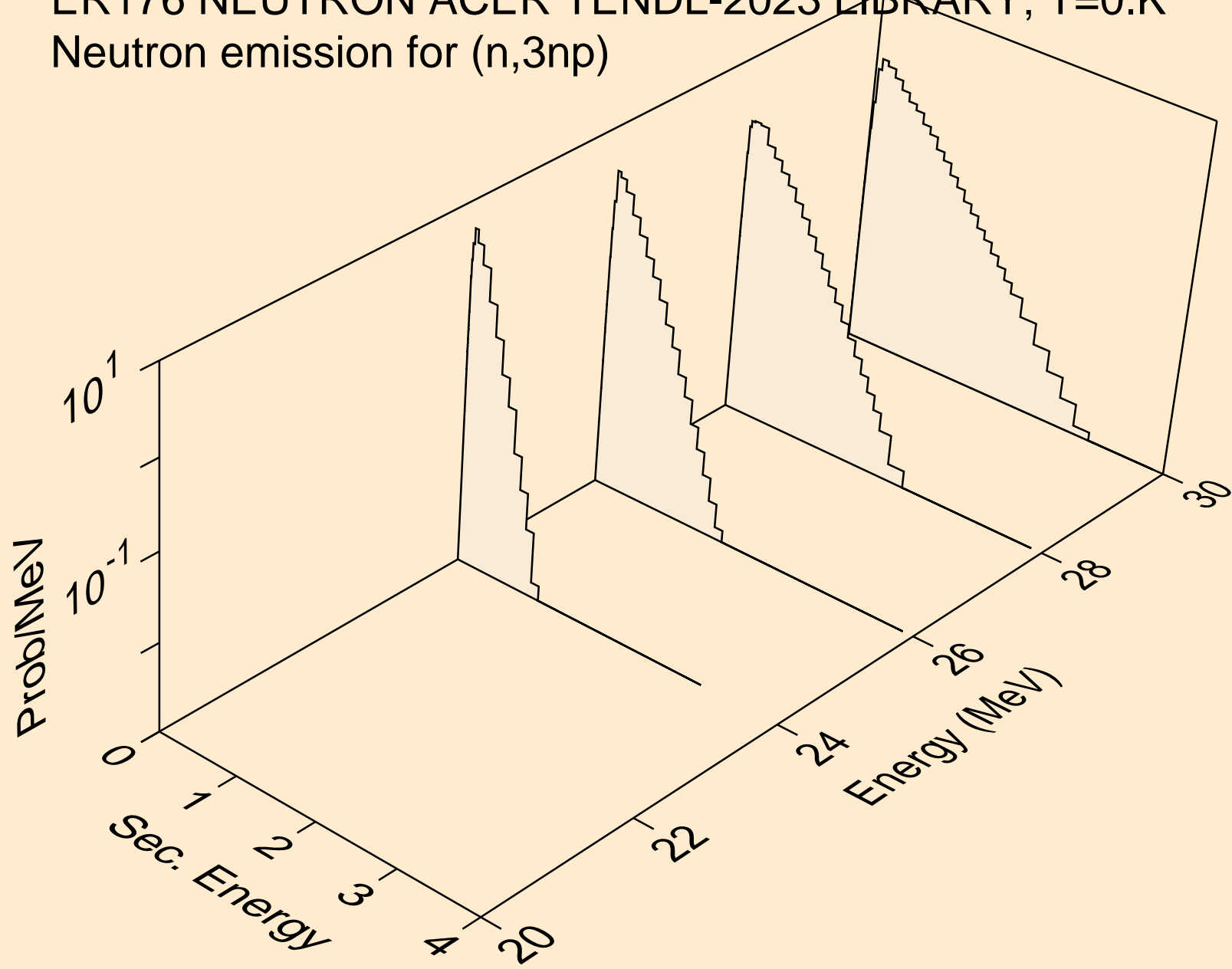
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



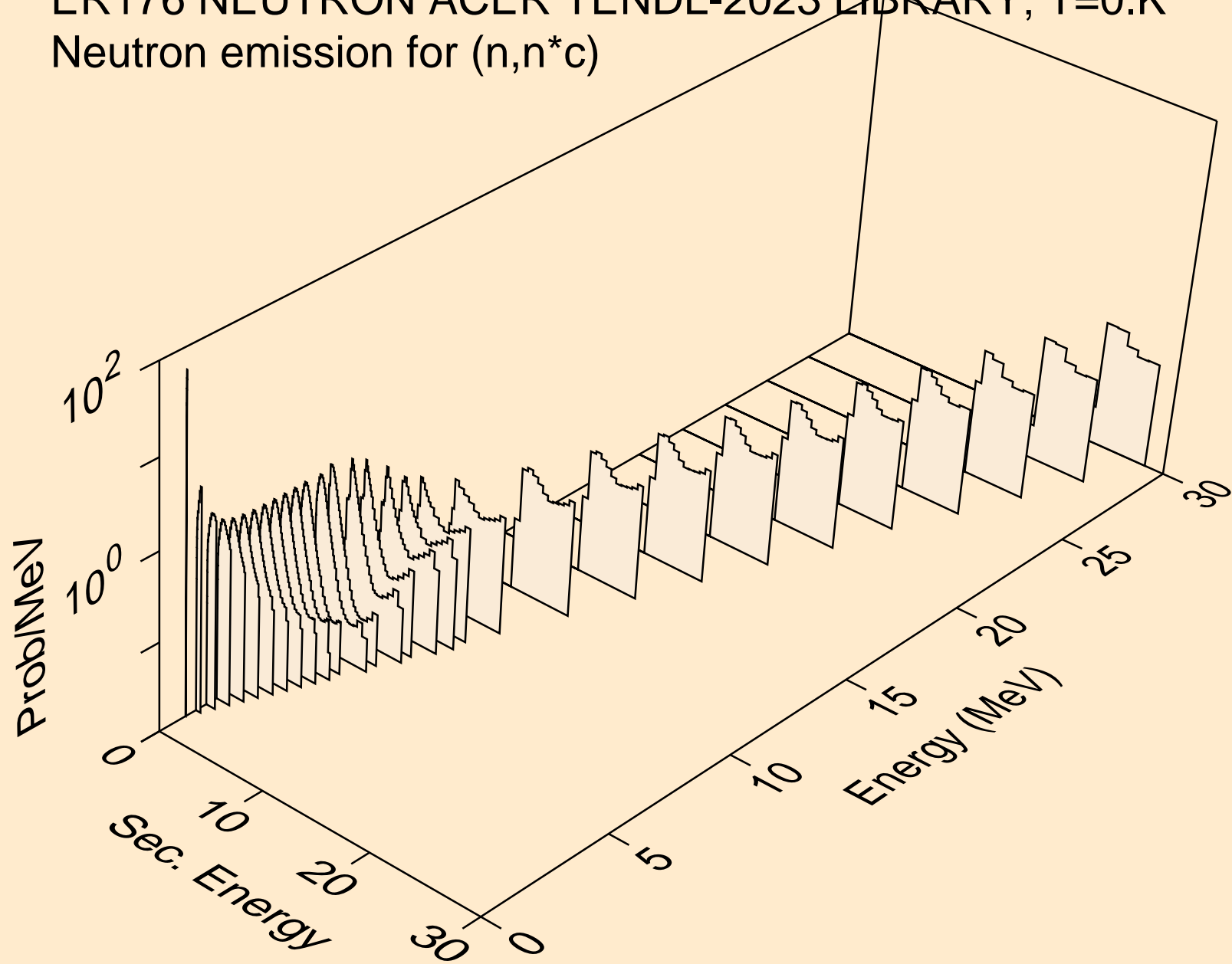
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



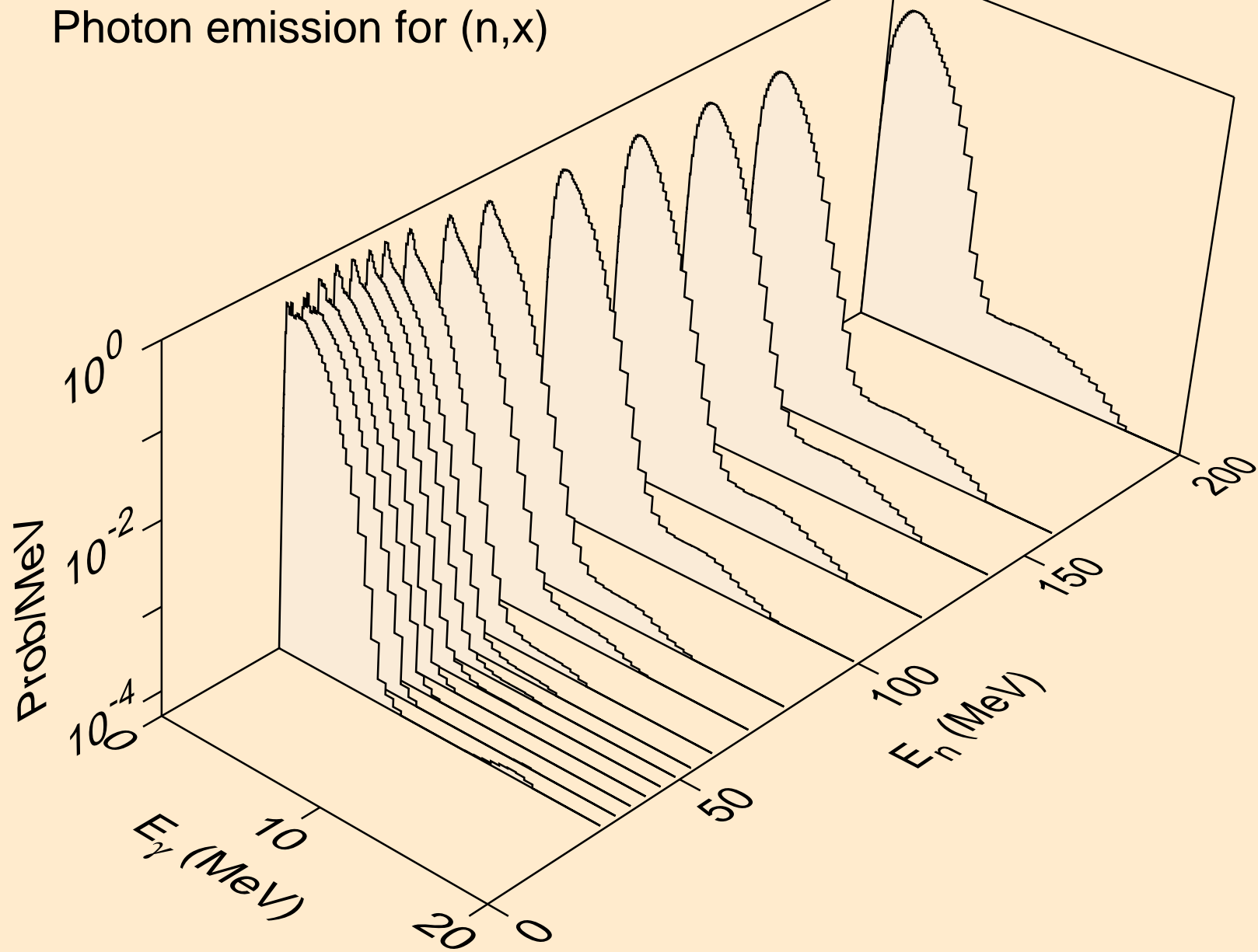
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)



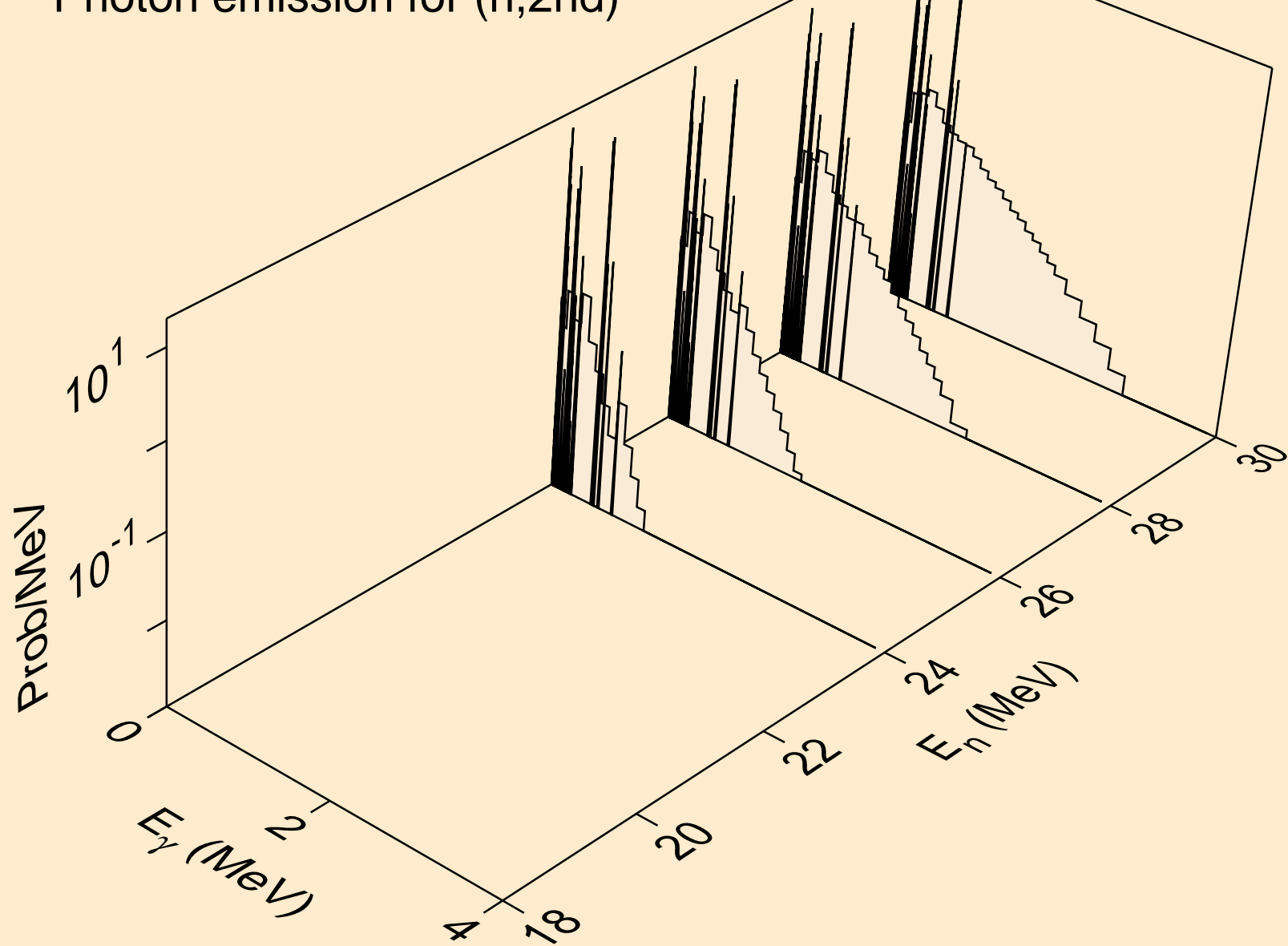
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



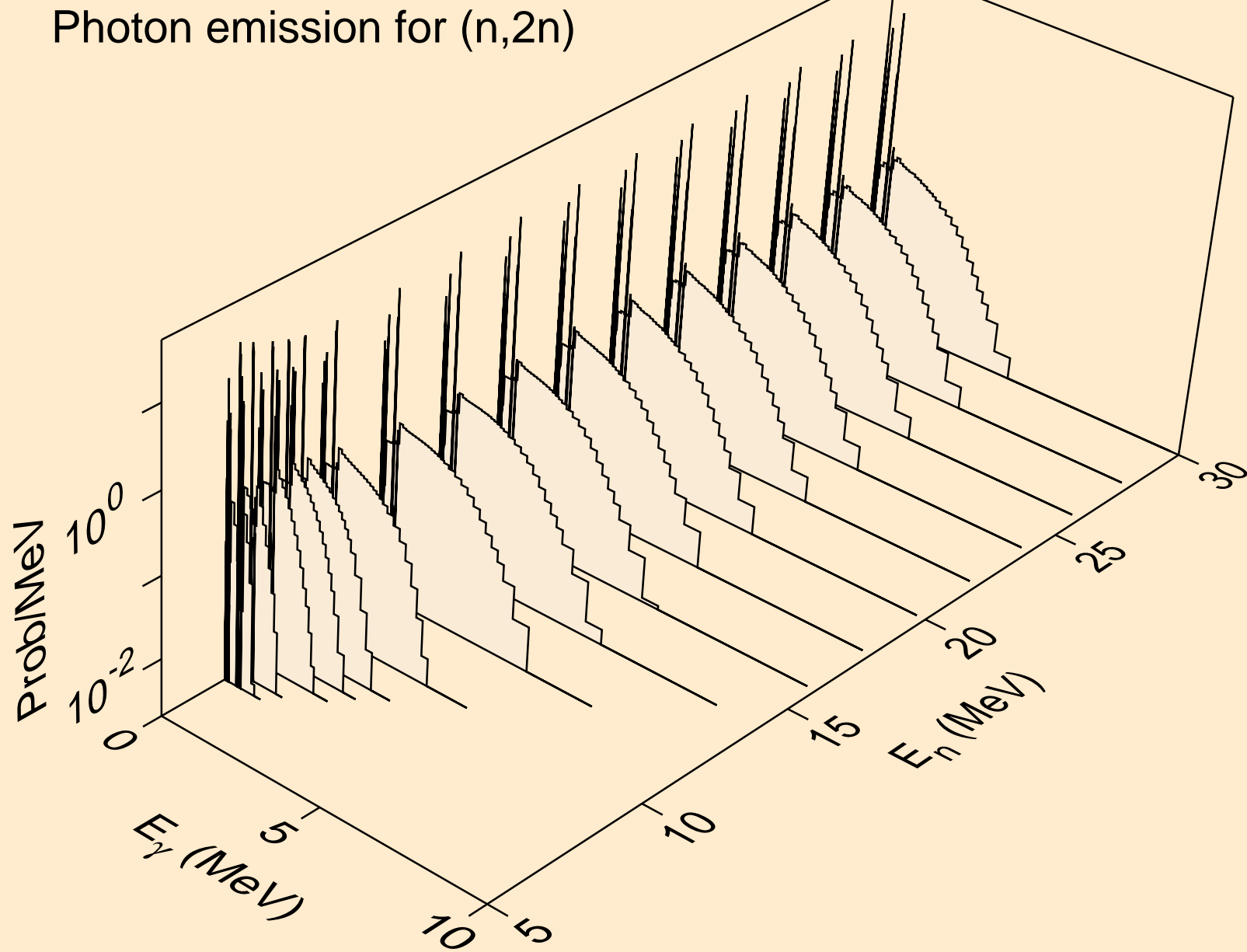
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



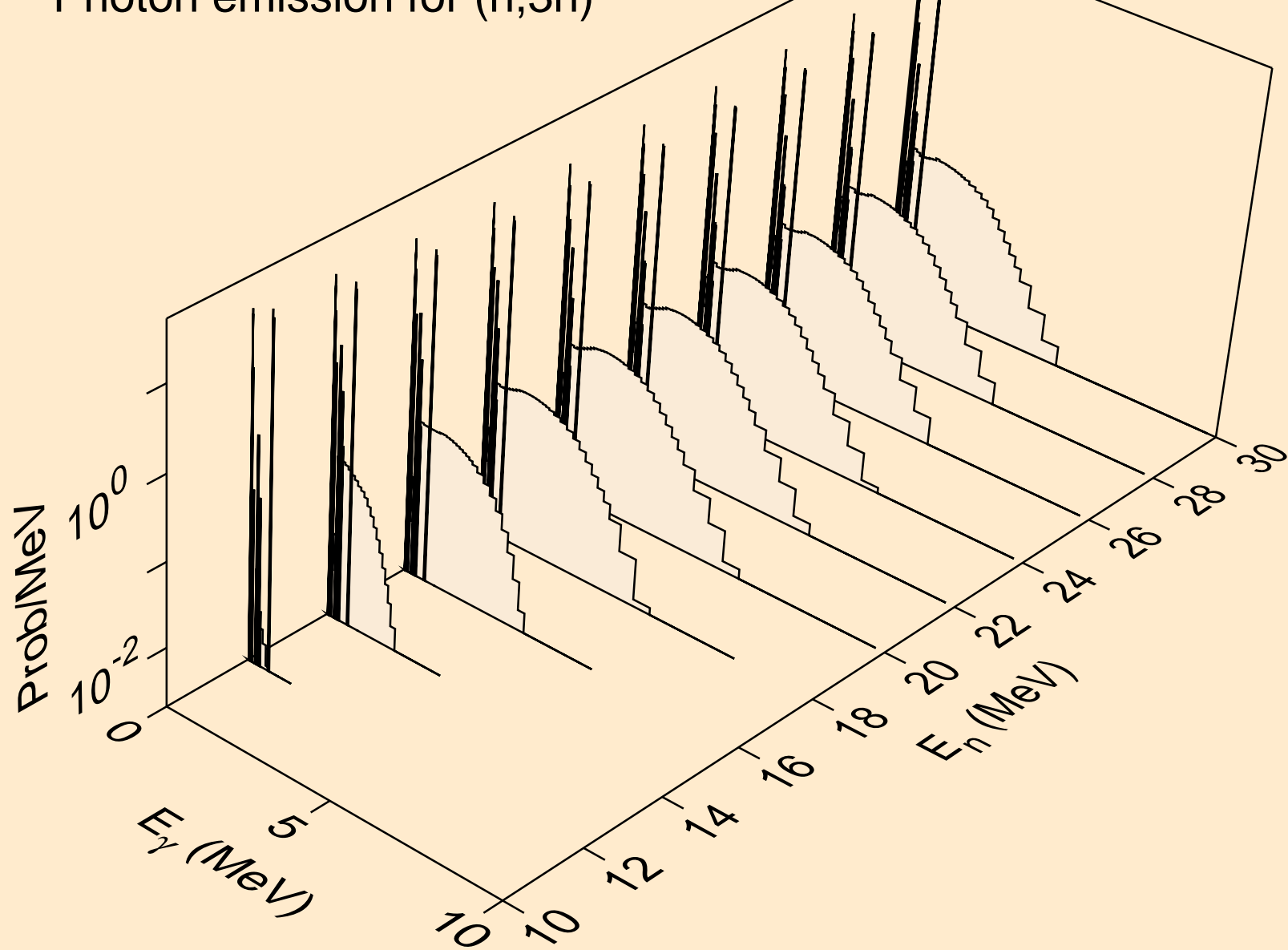
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

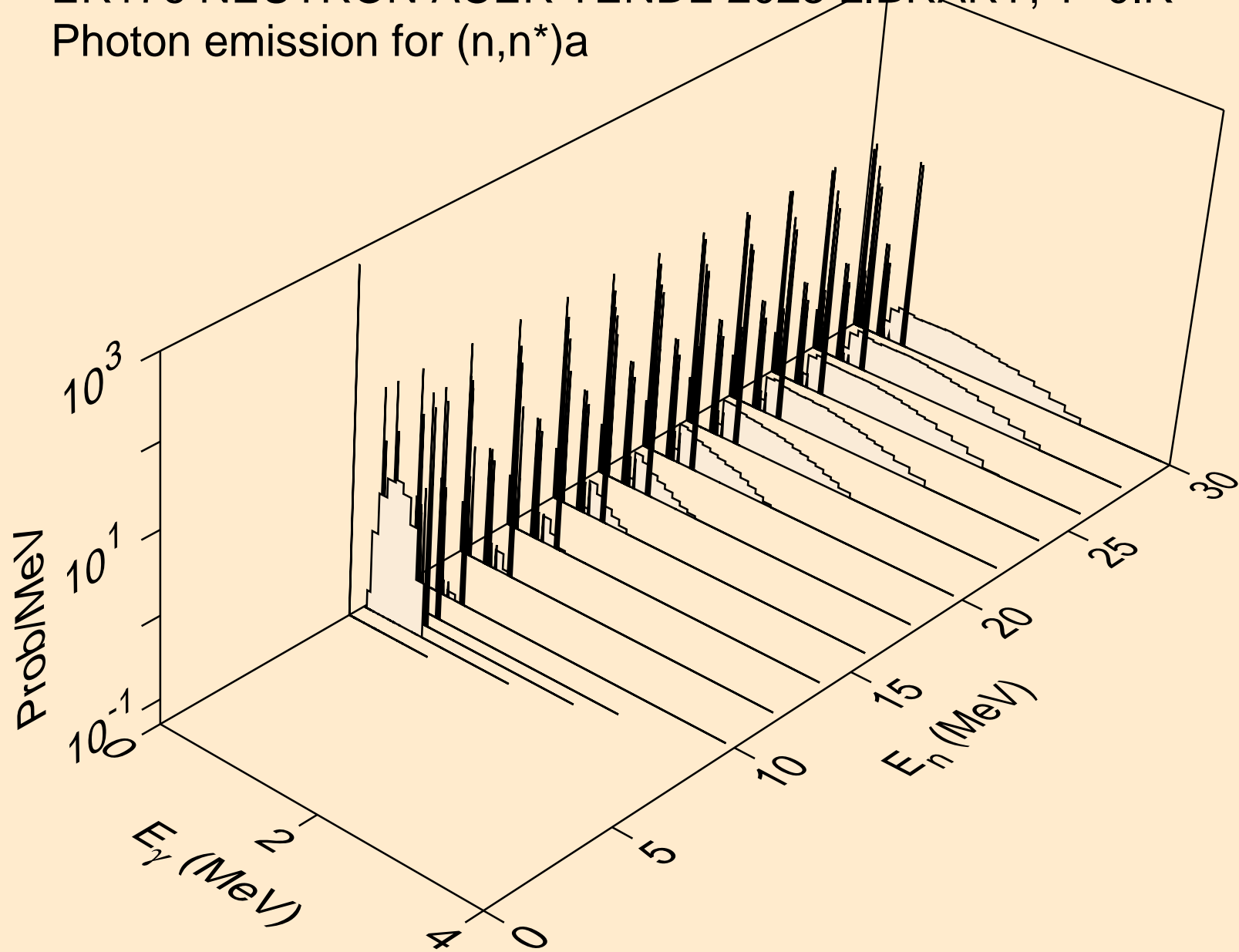


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

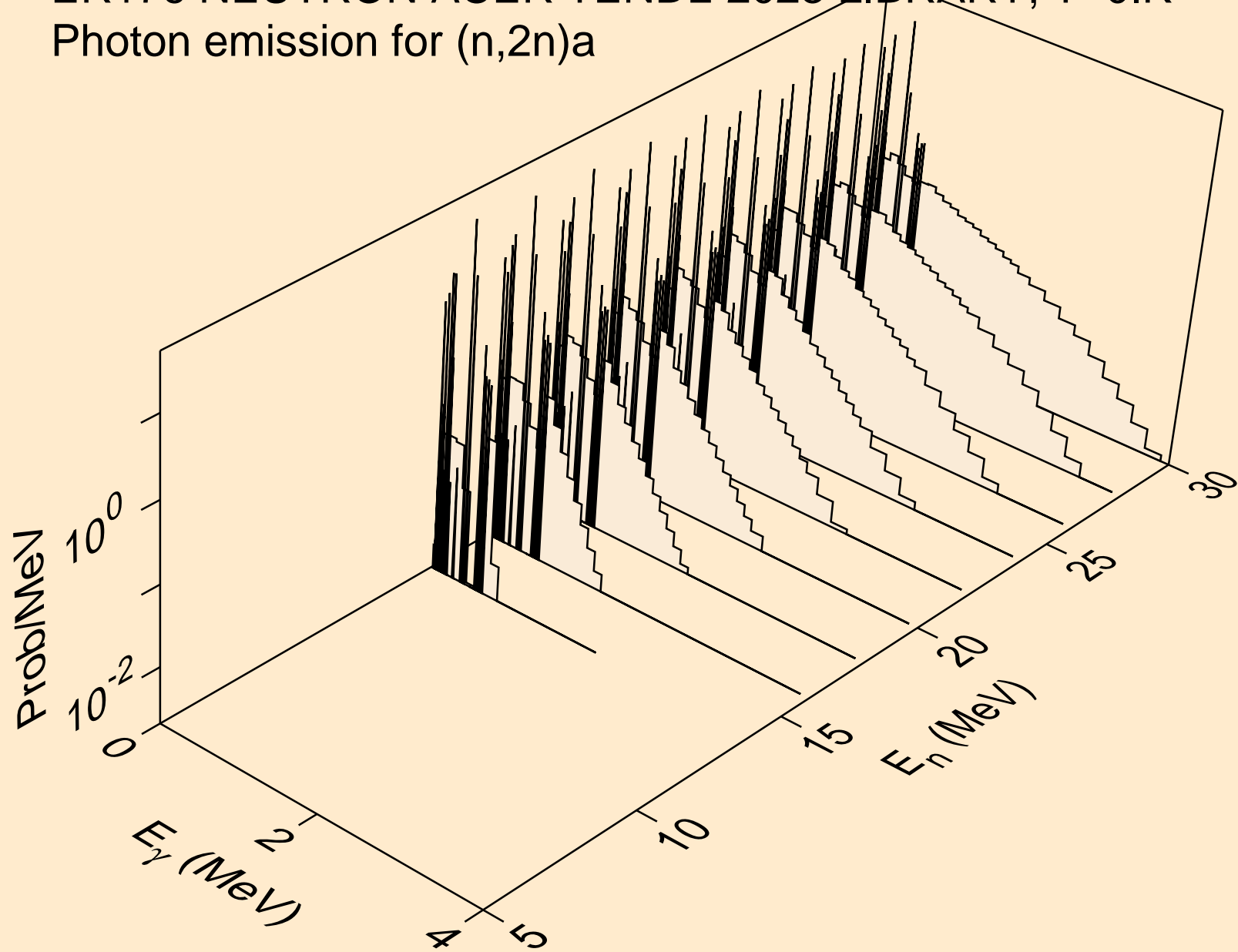




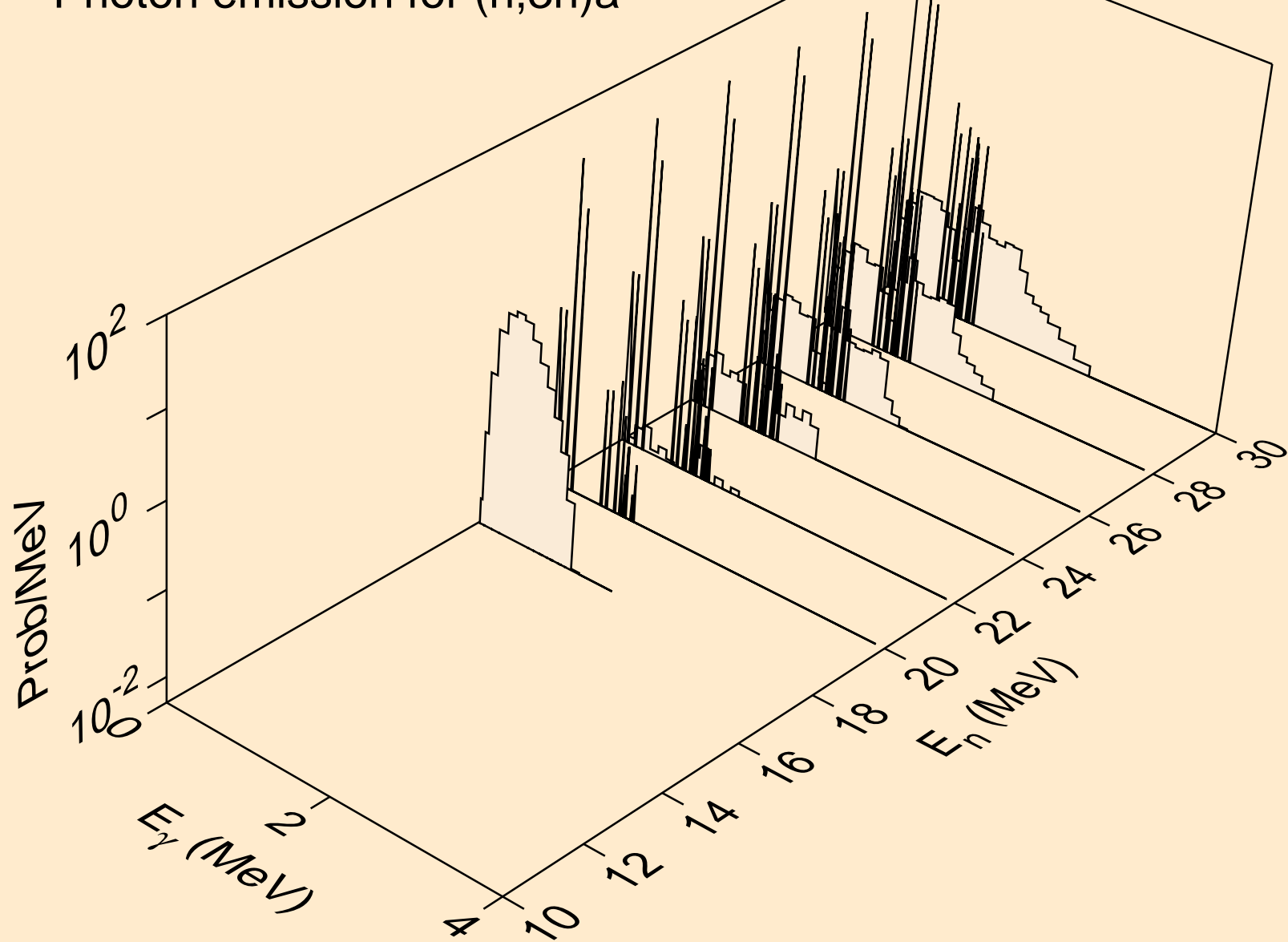
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



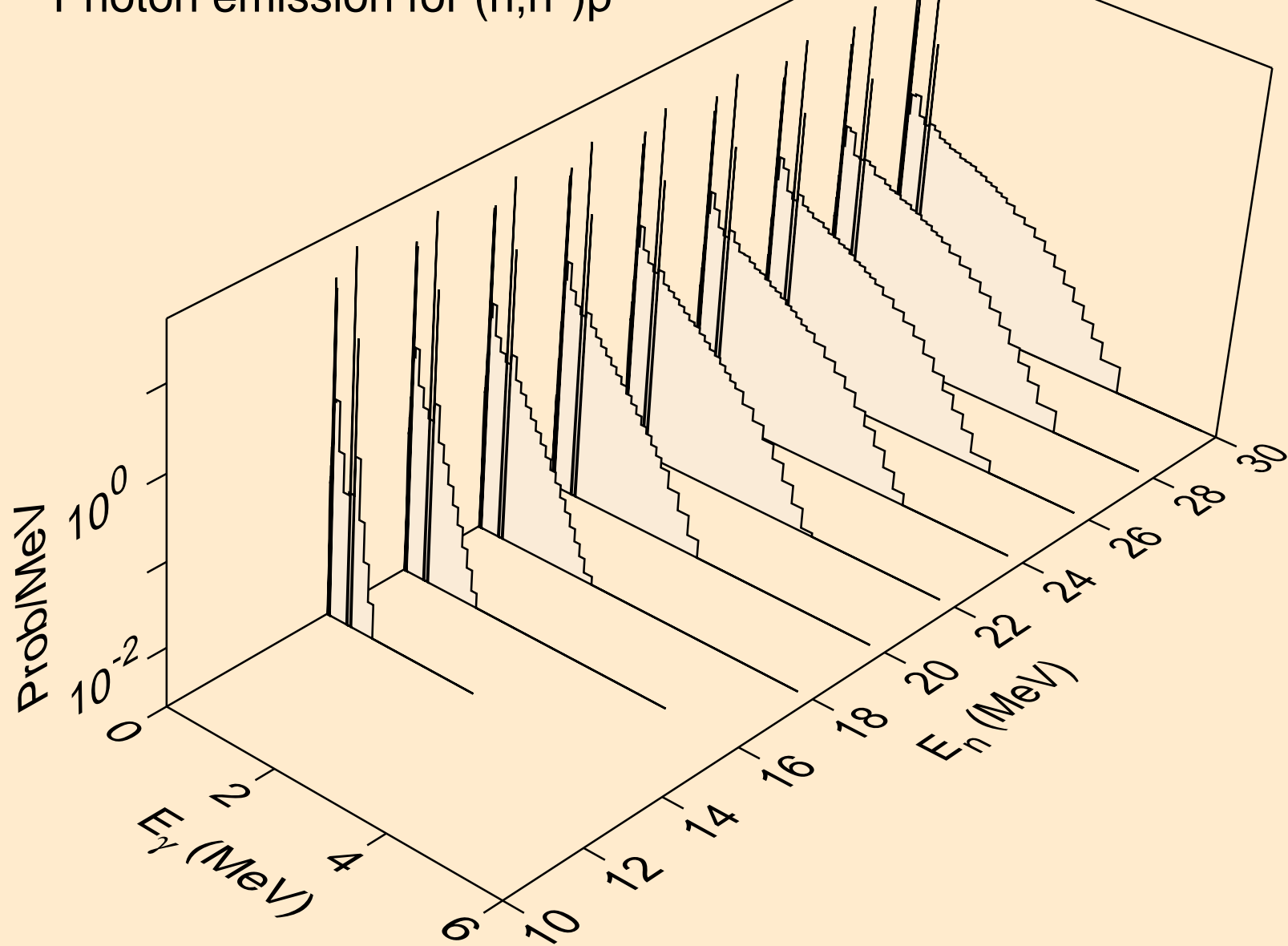
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



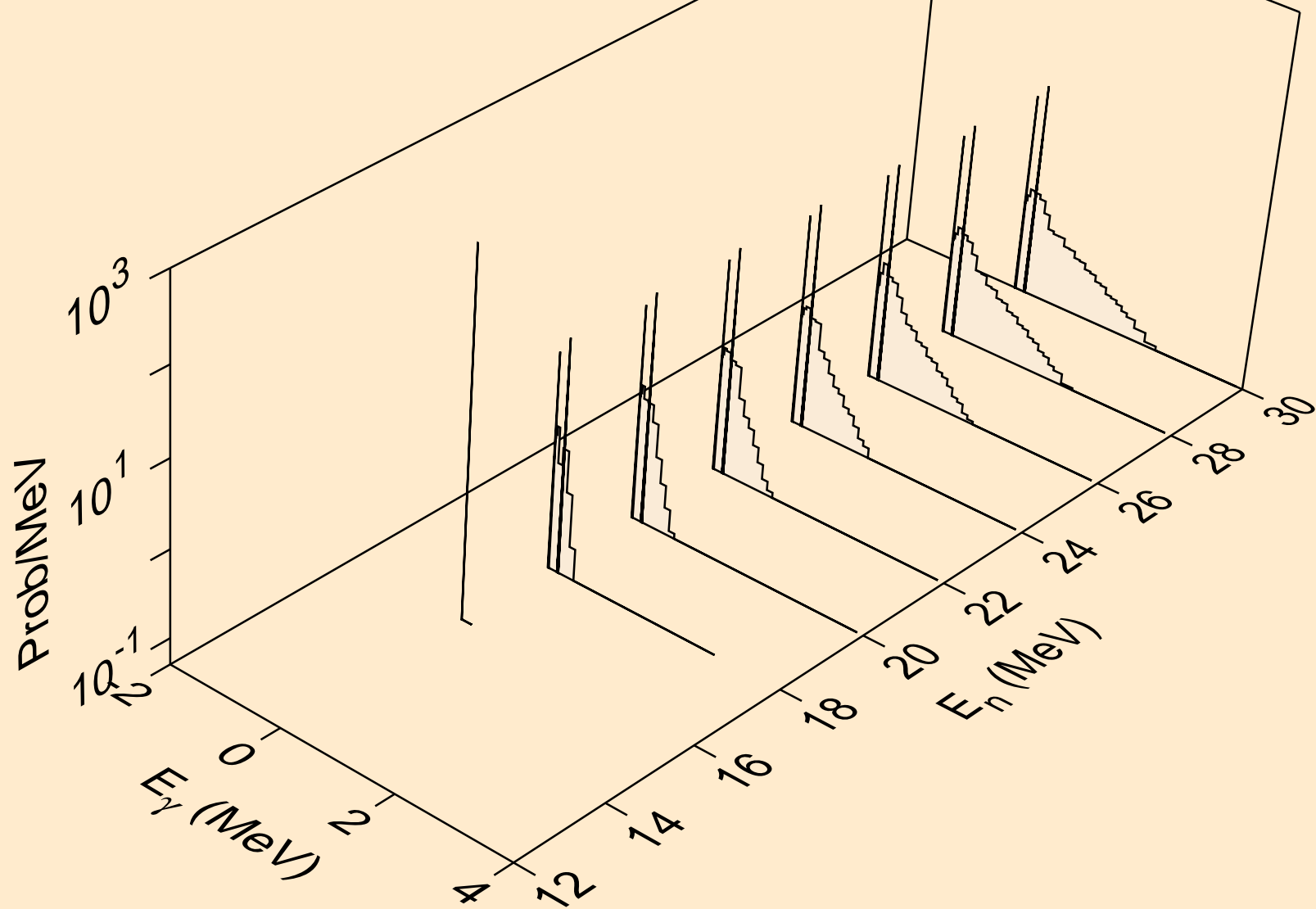
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



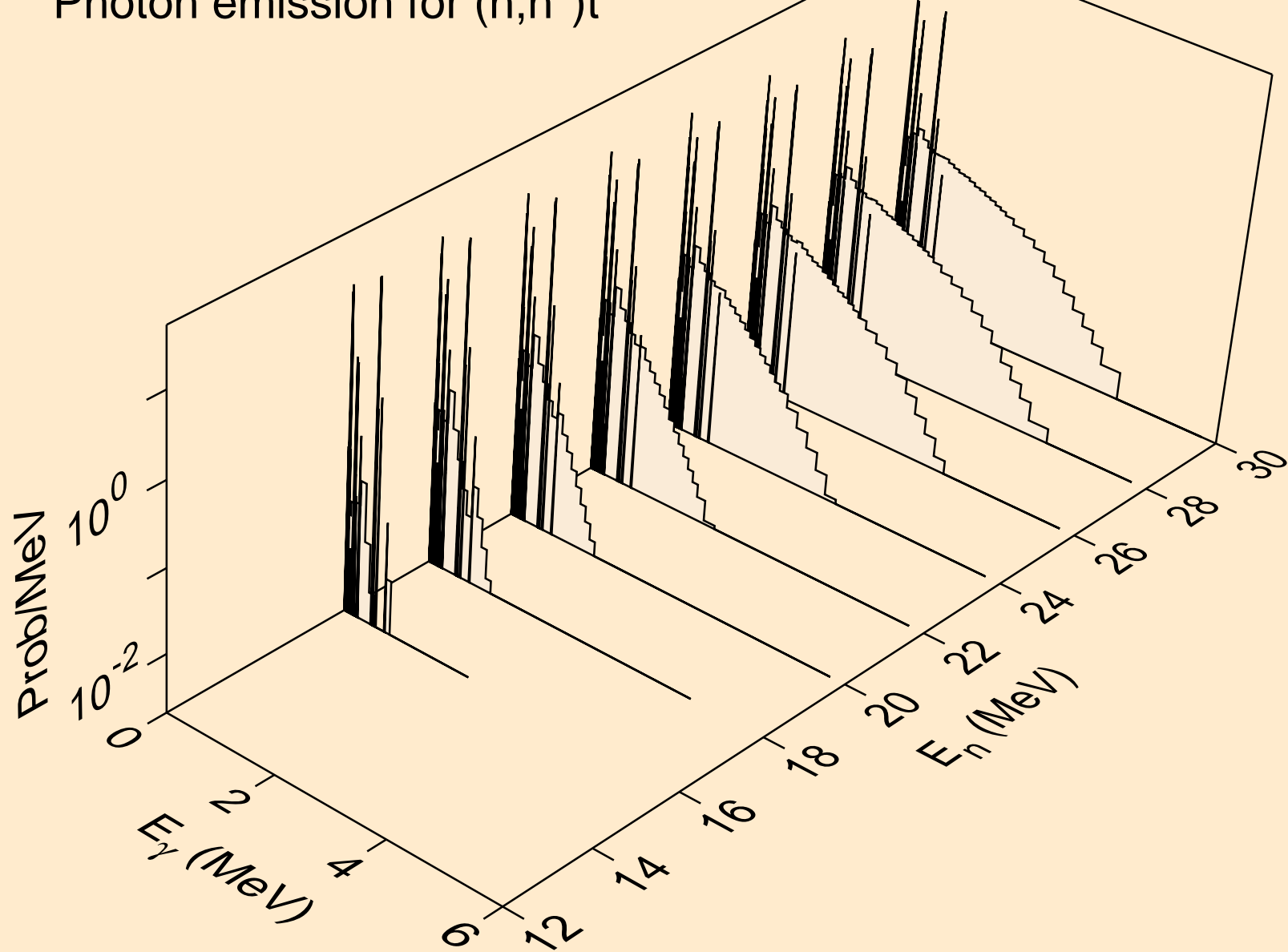
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



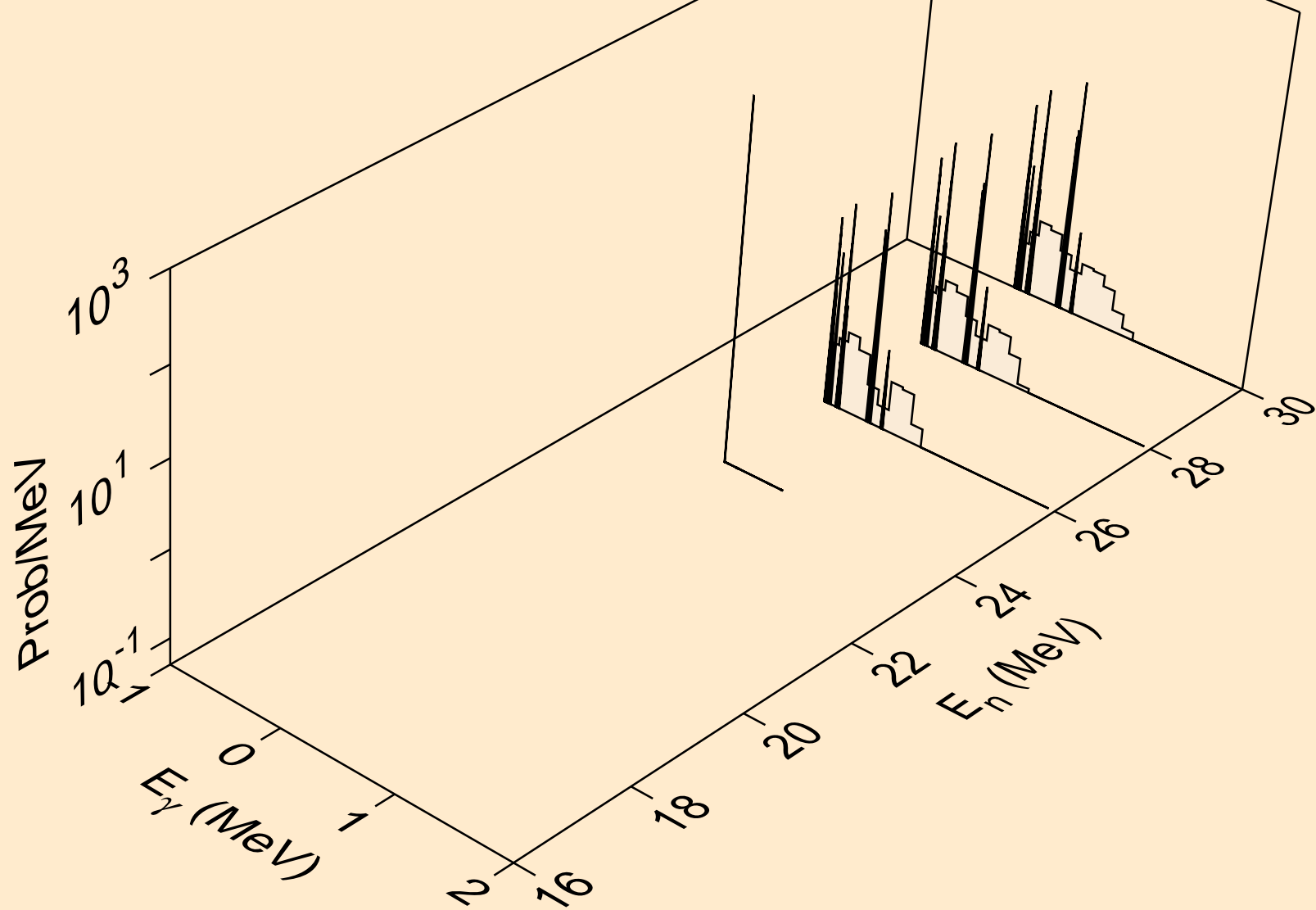
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



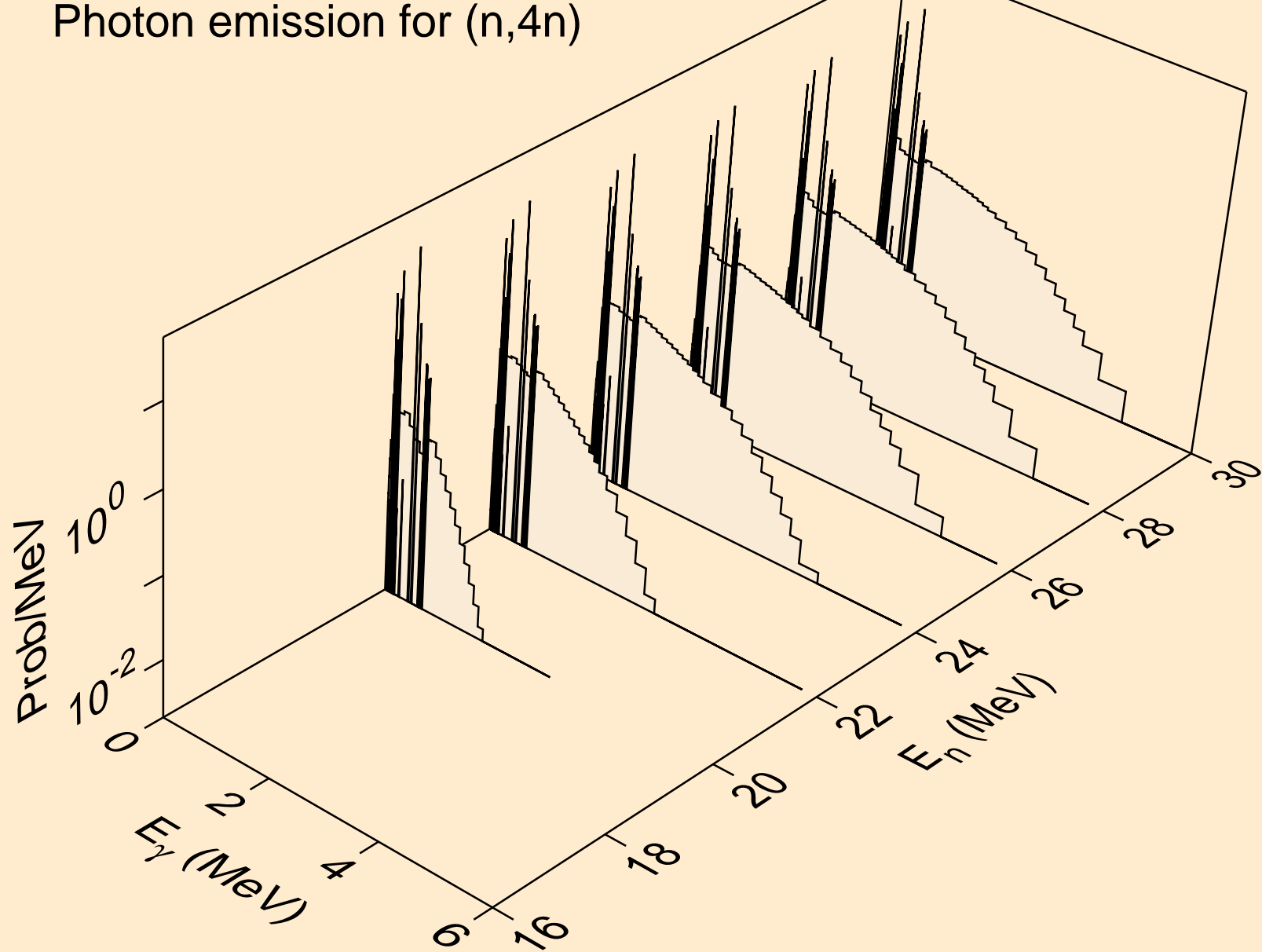
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

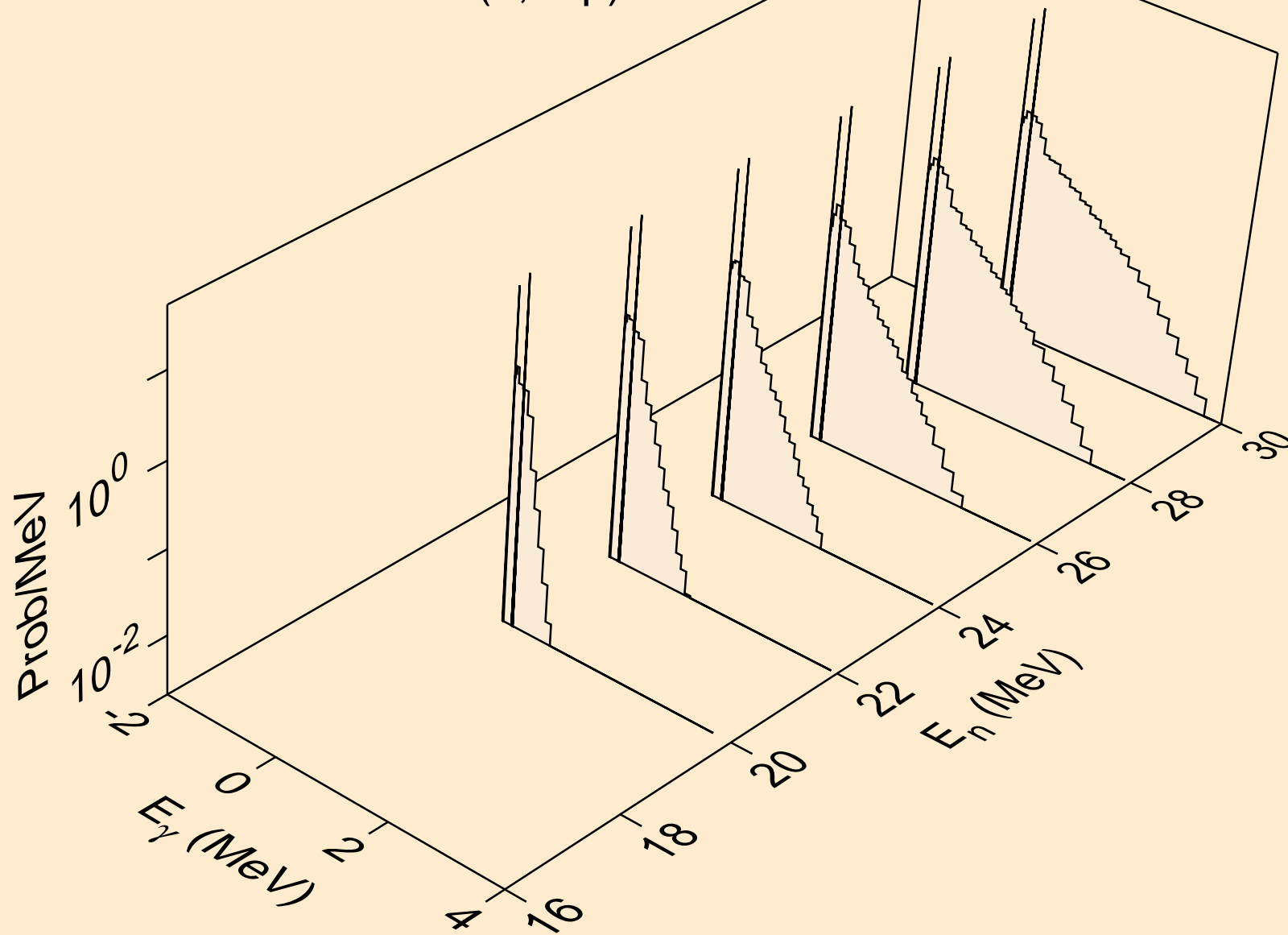


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)

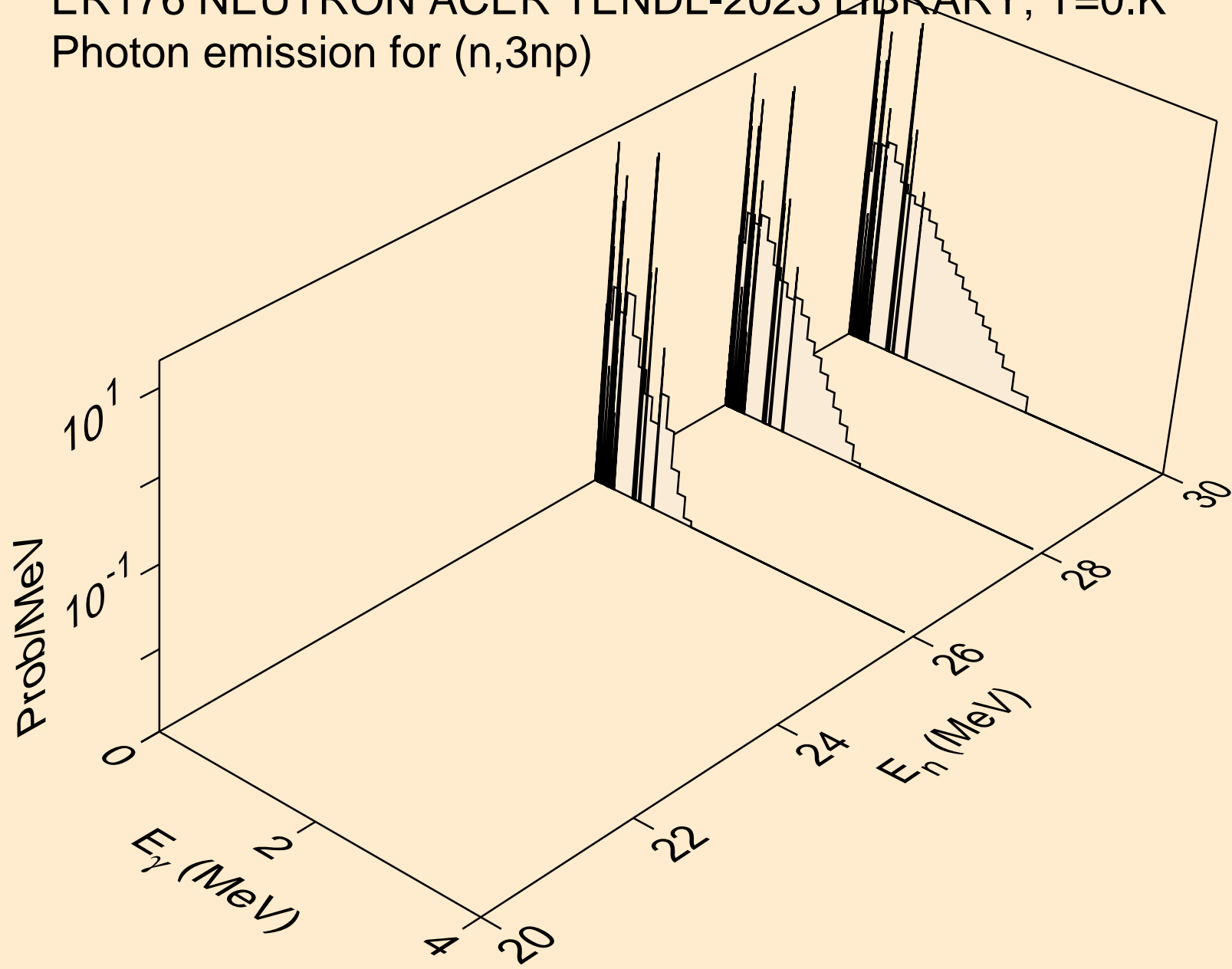




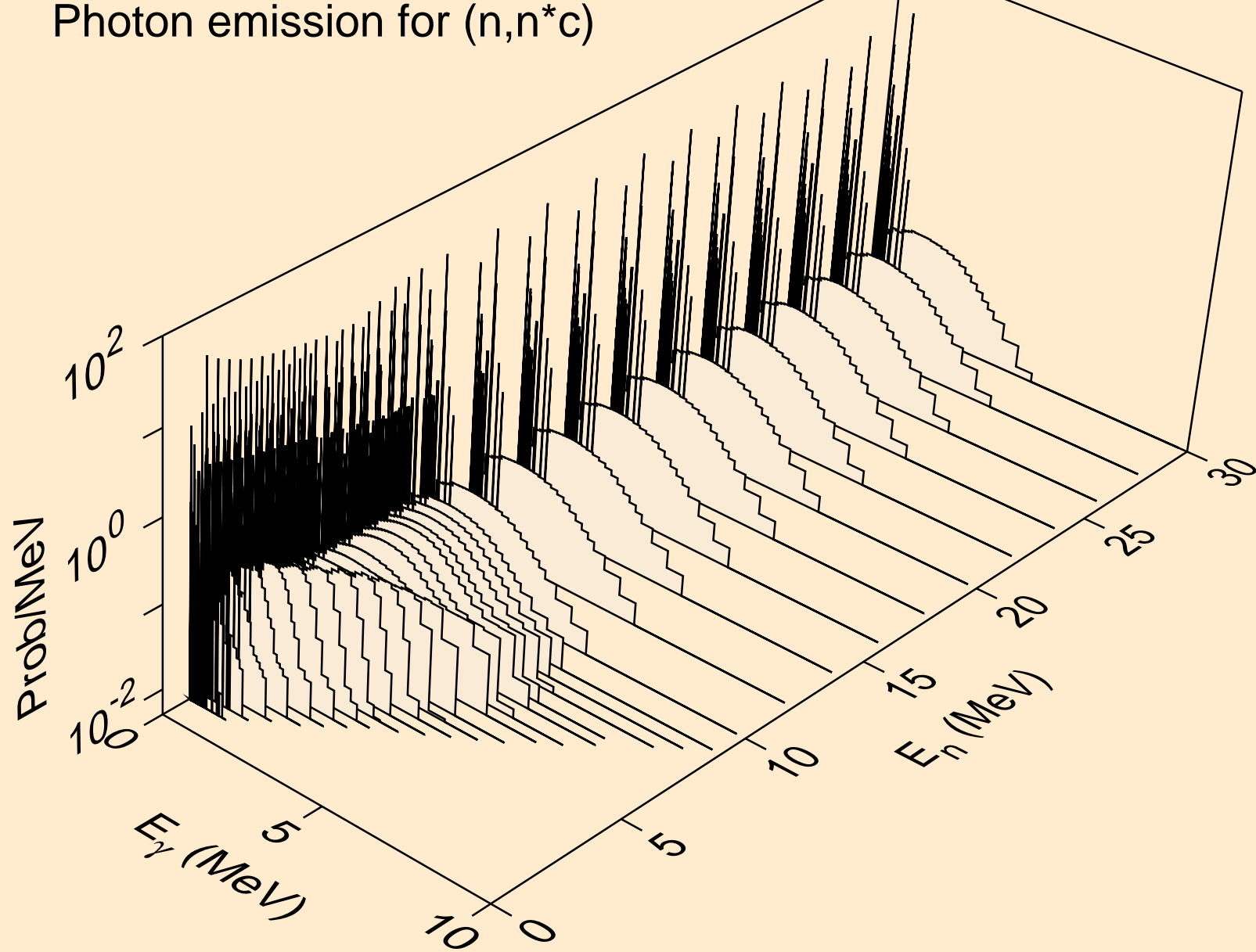
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



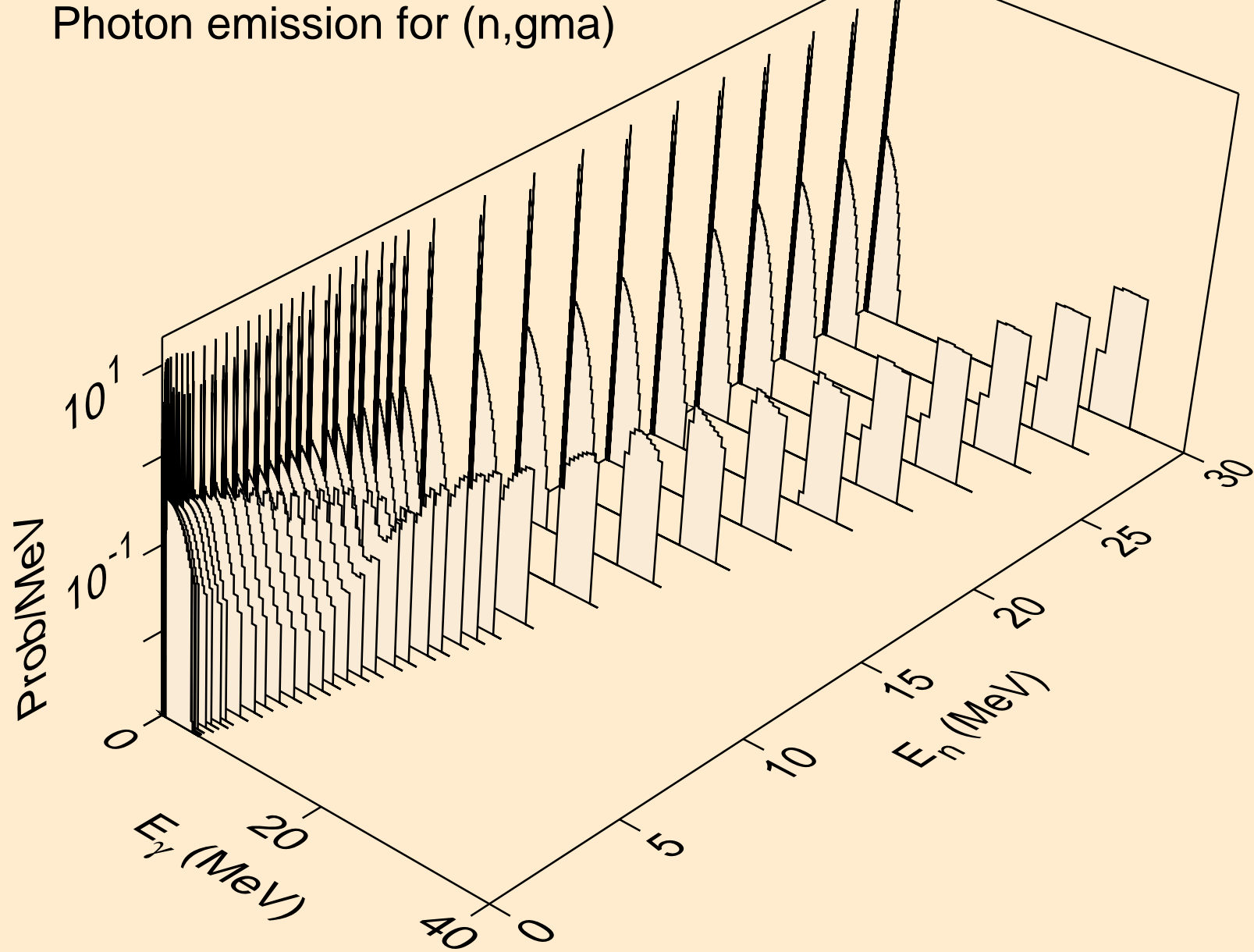
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



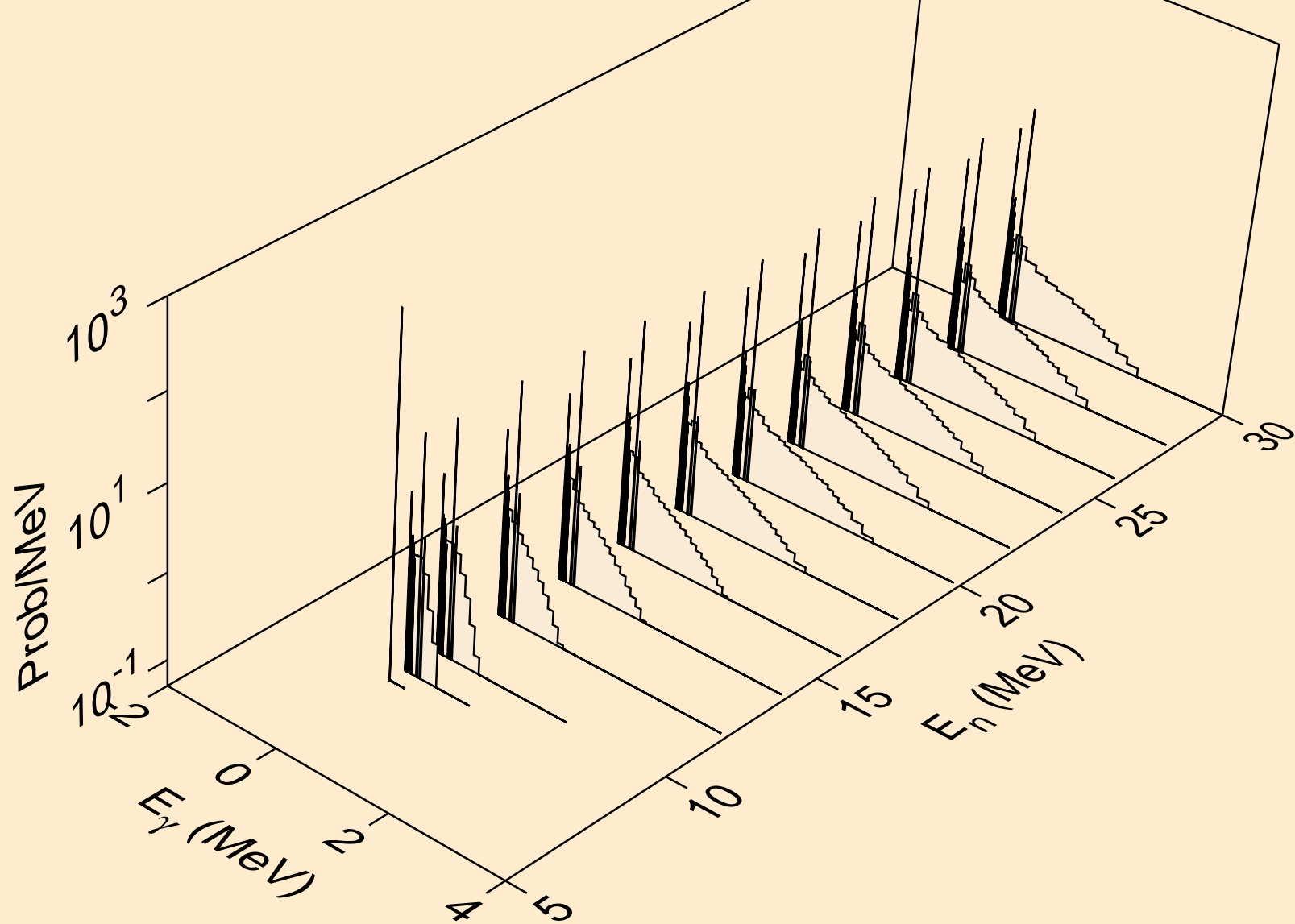
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



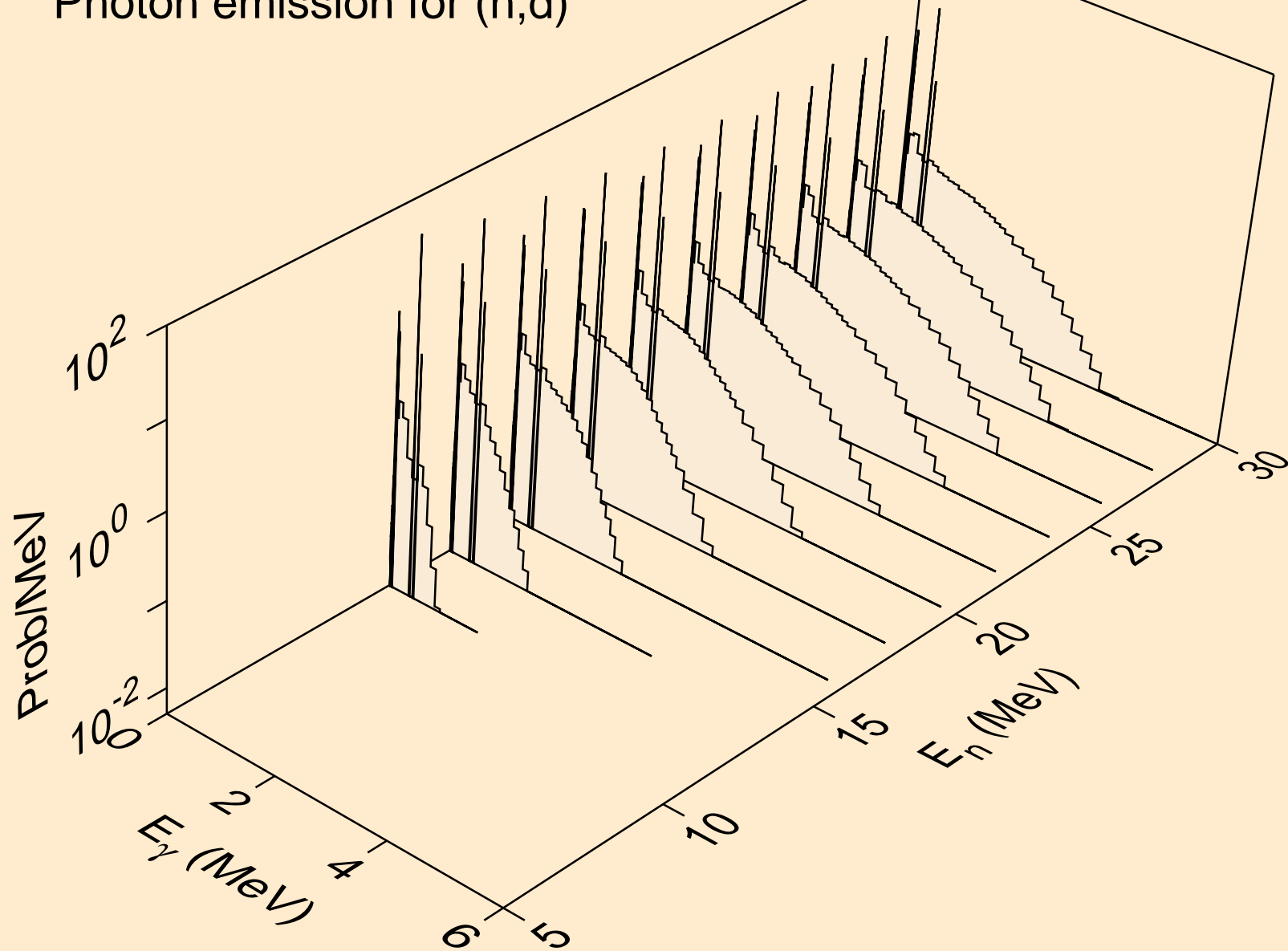
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



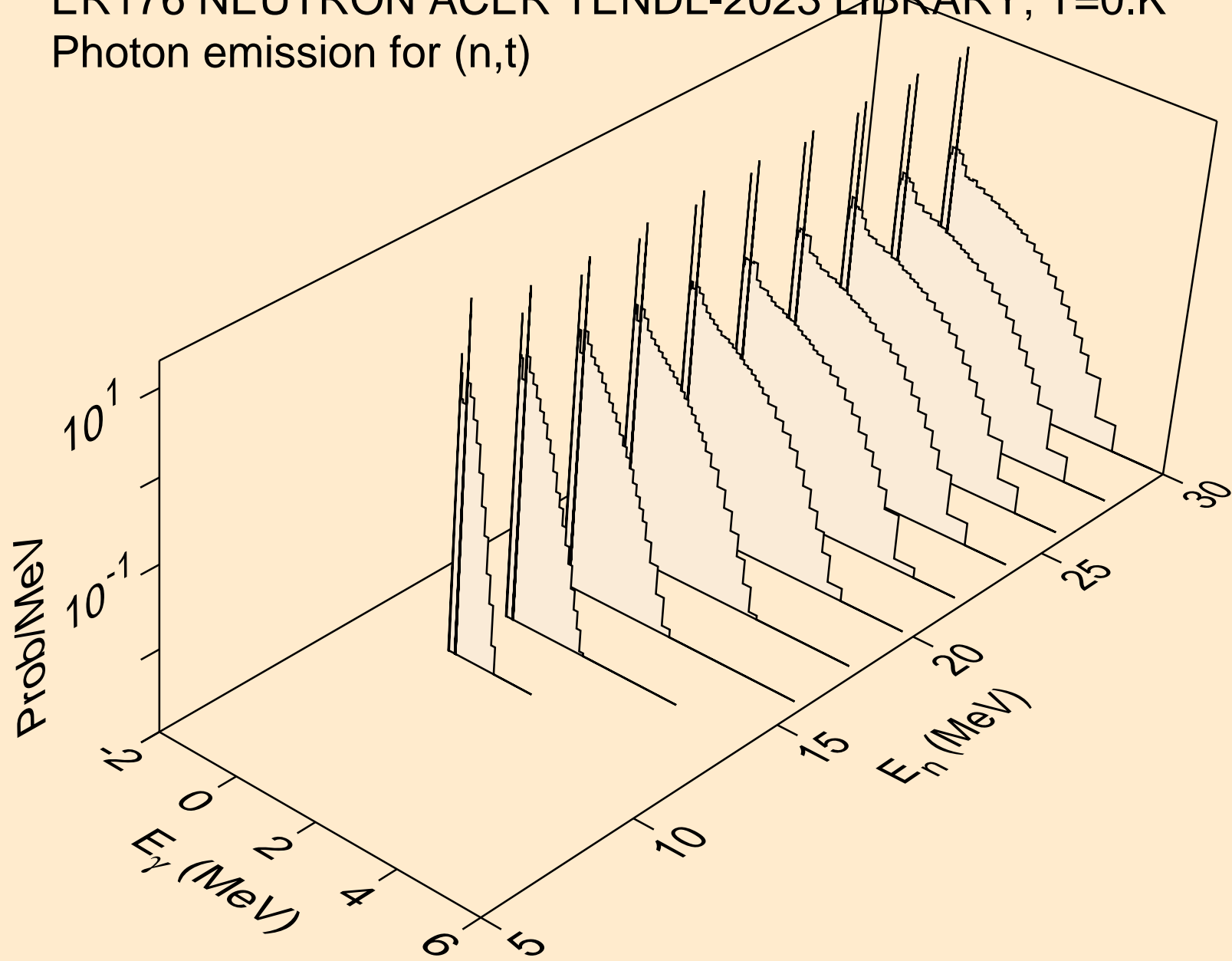
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



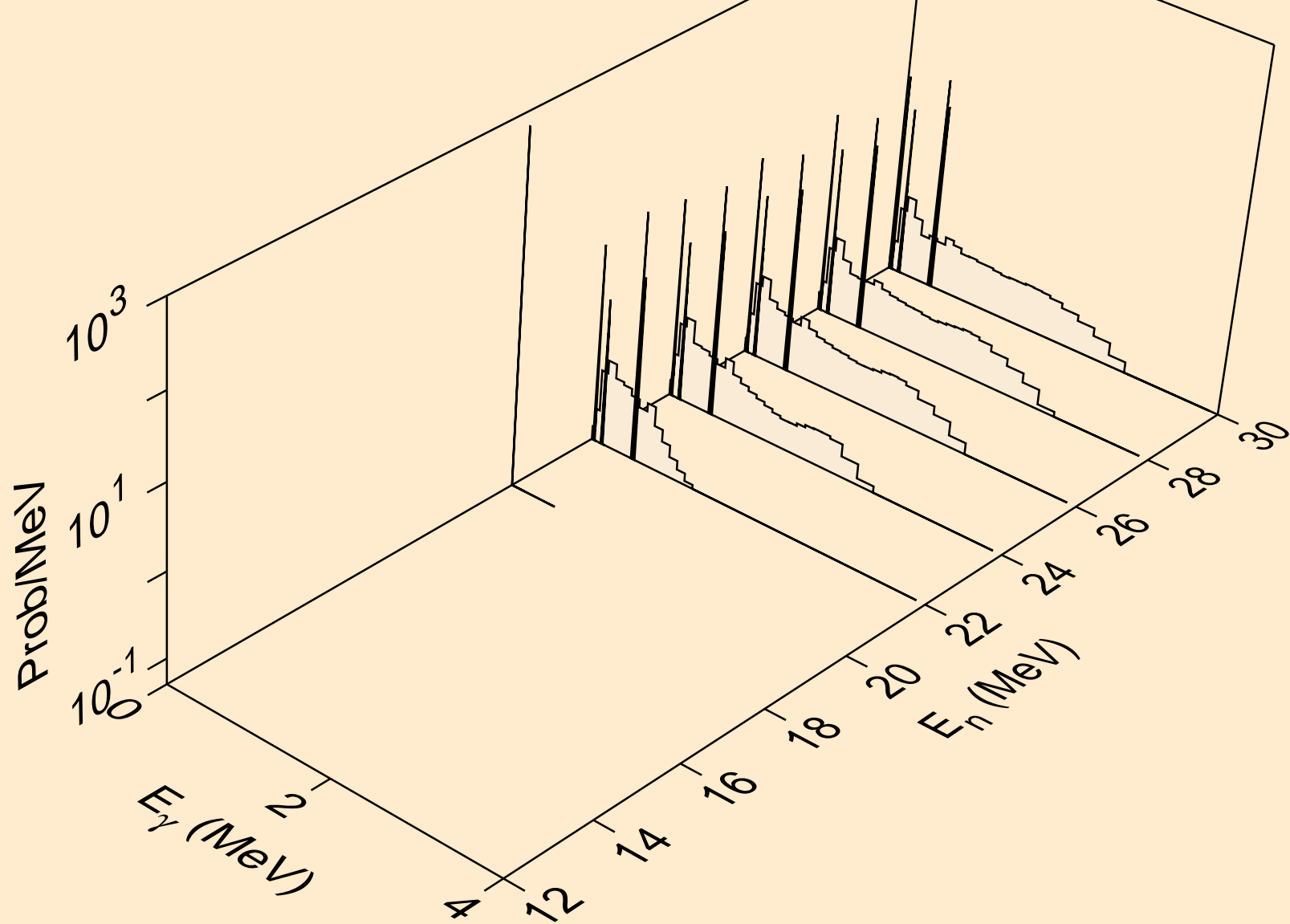
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

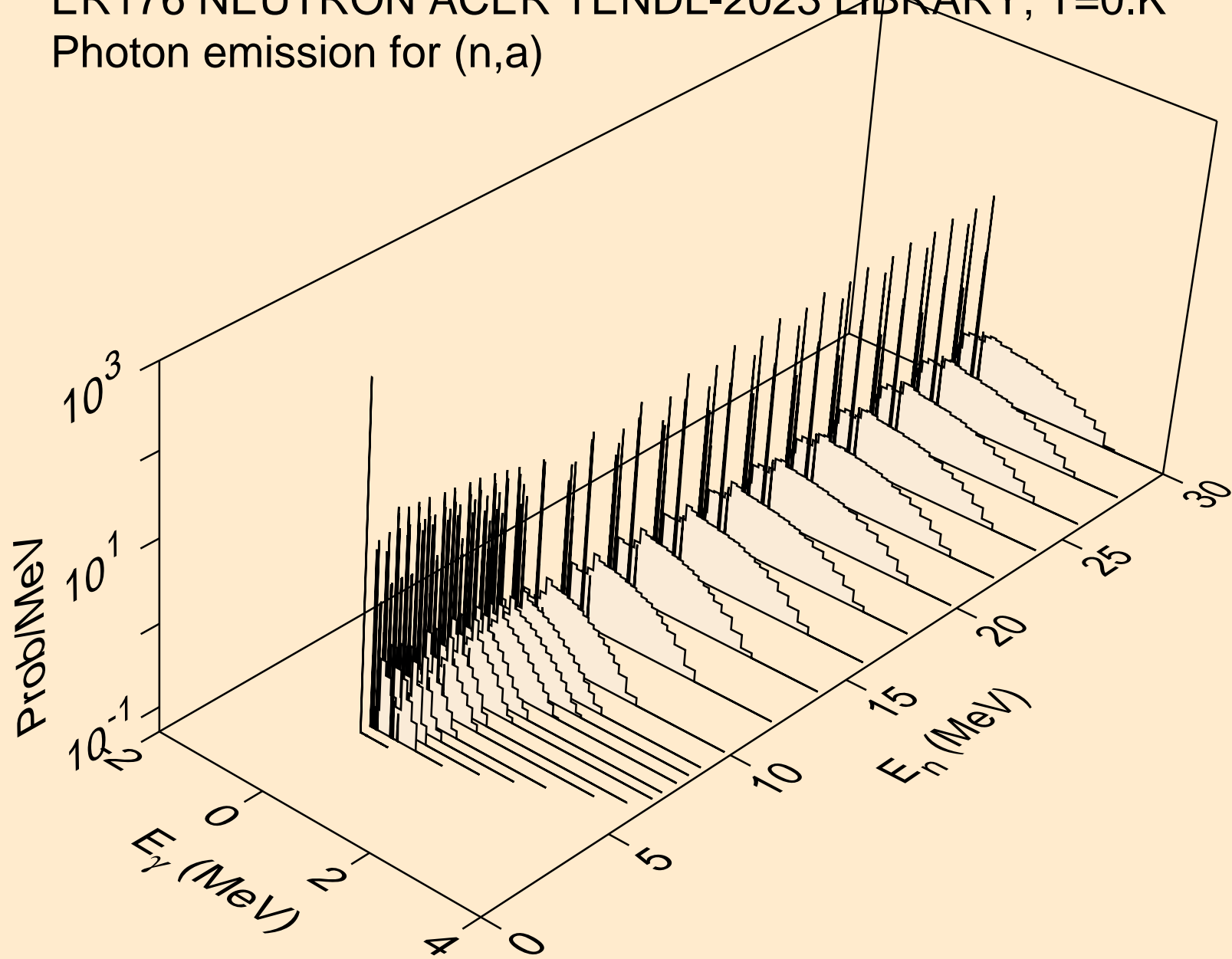


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

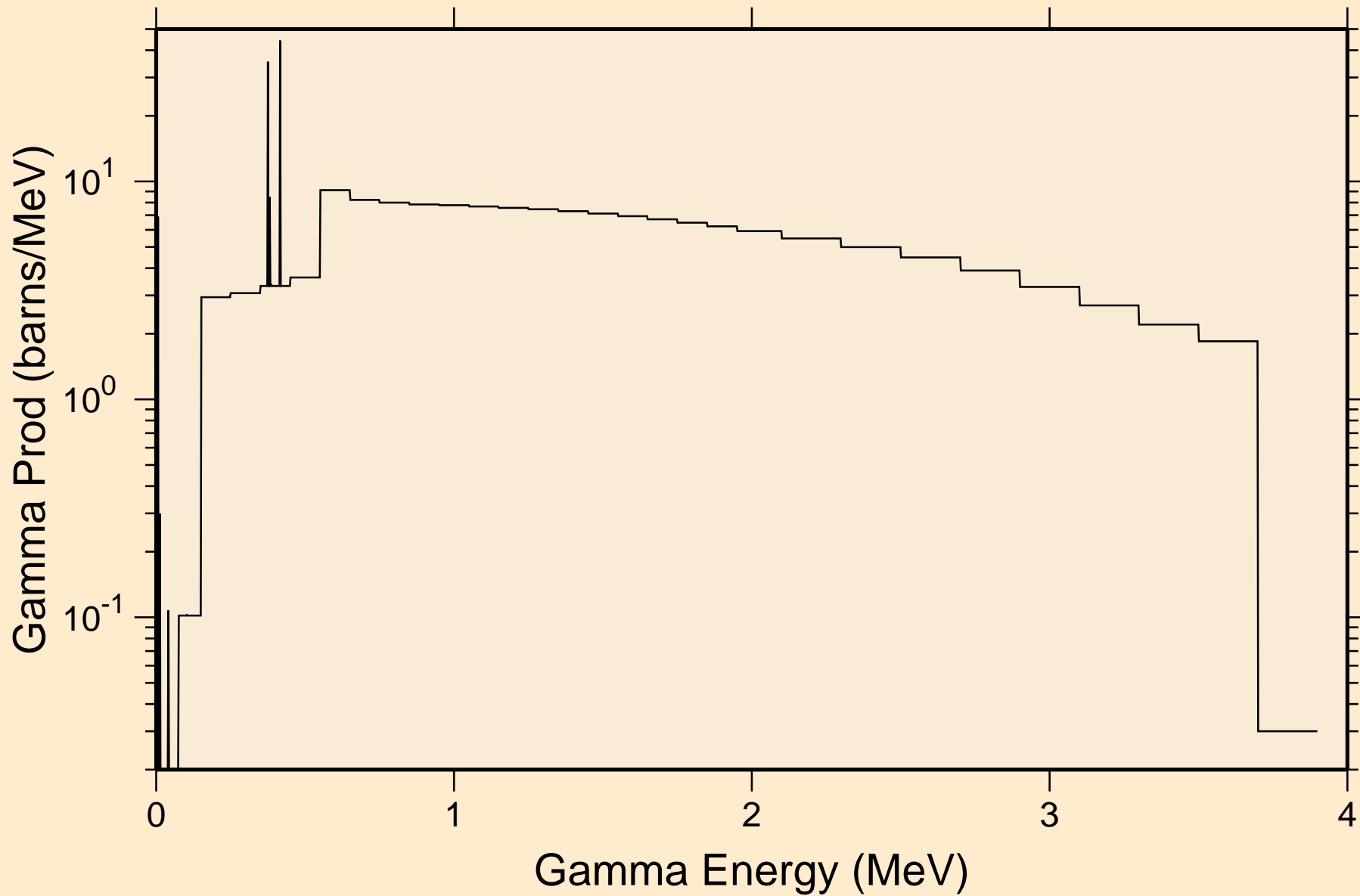




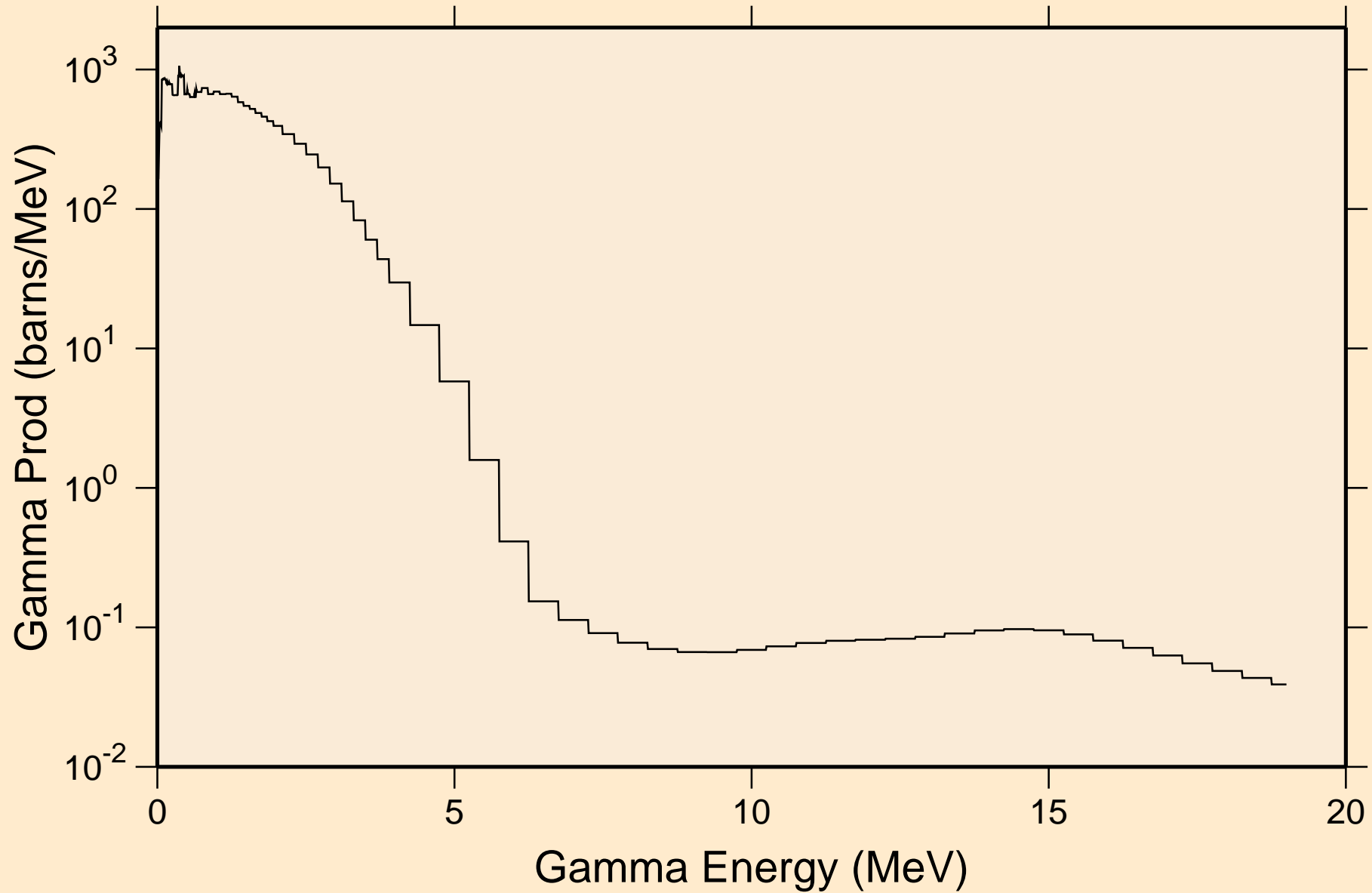
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

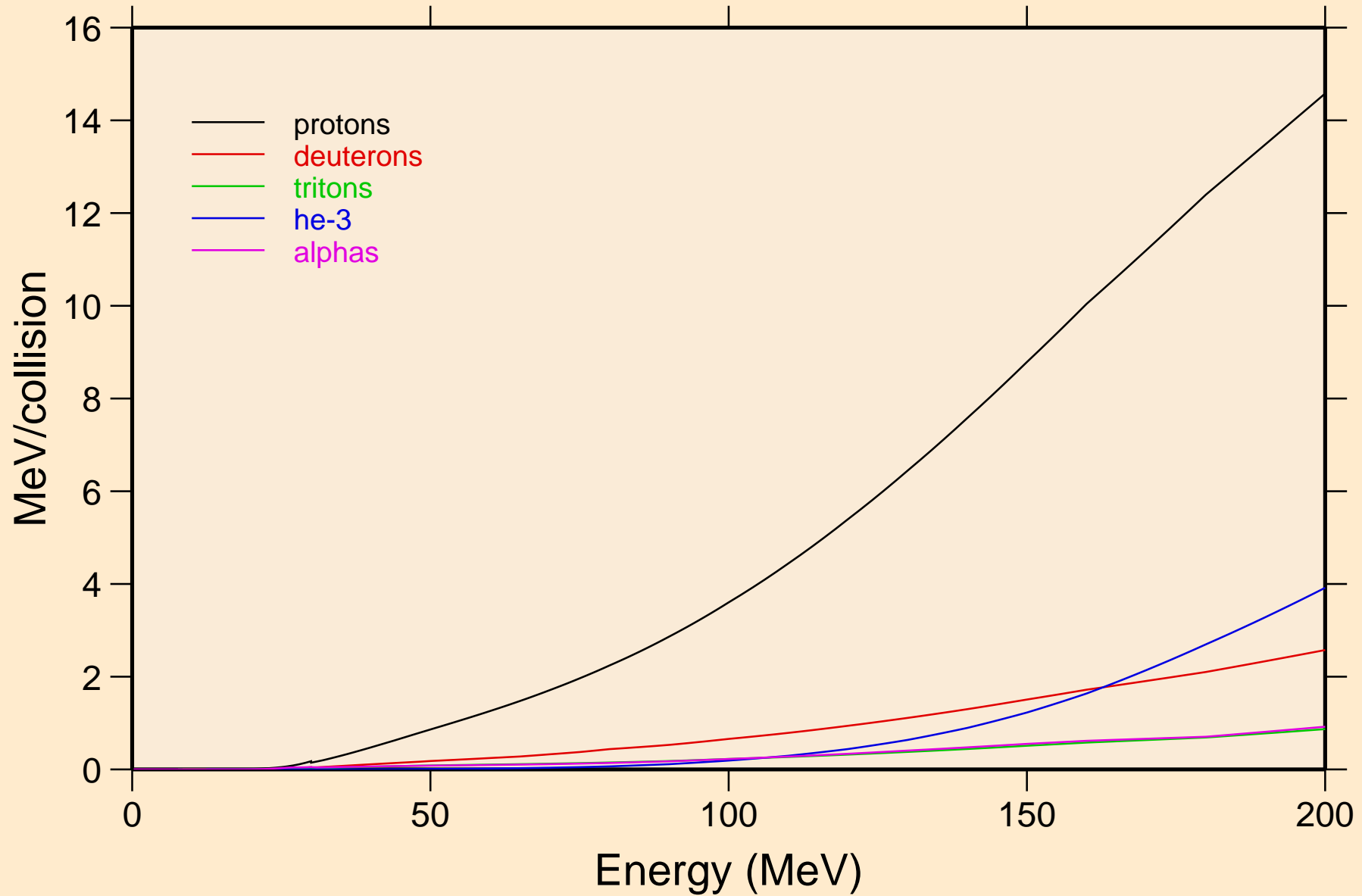


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

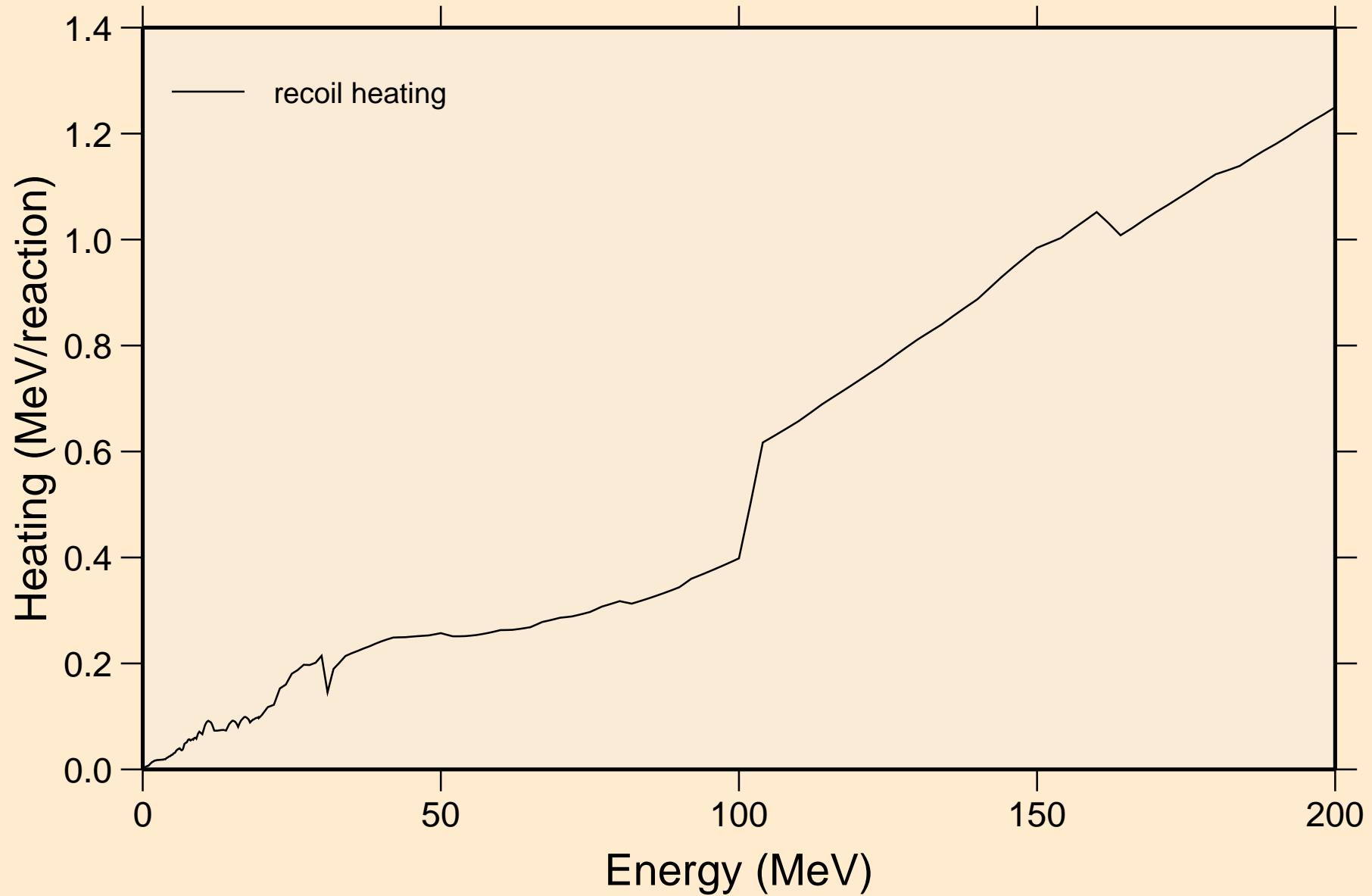


# ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

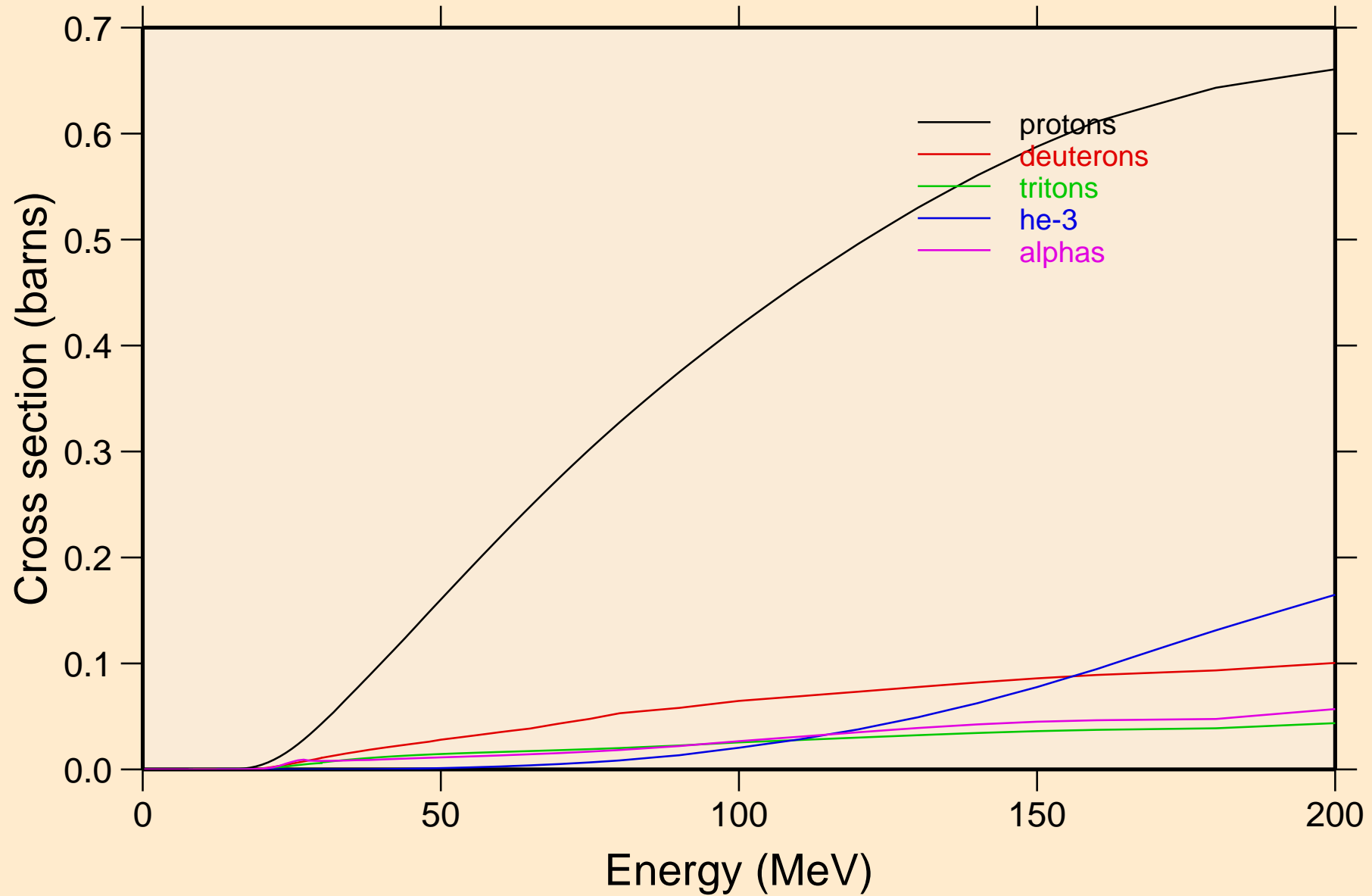
## Particle heating contributions



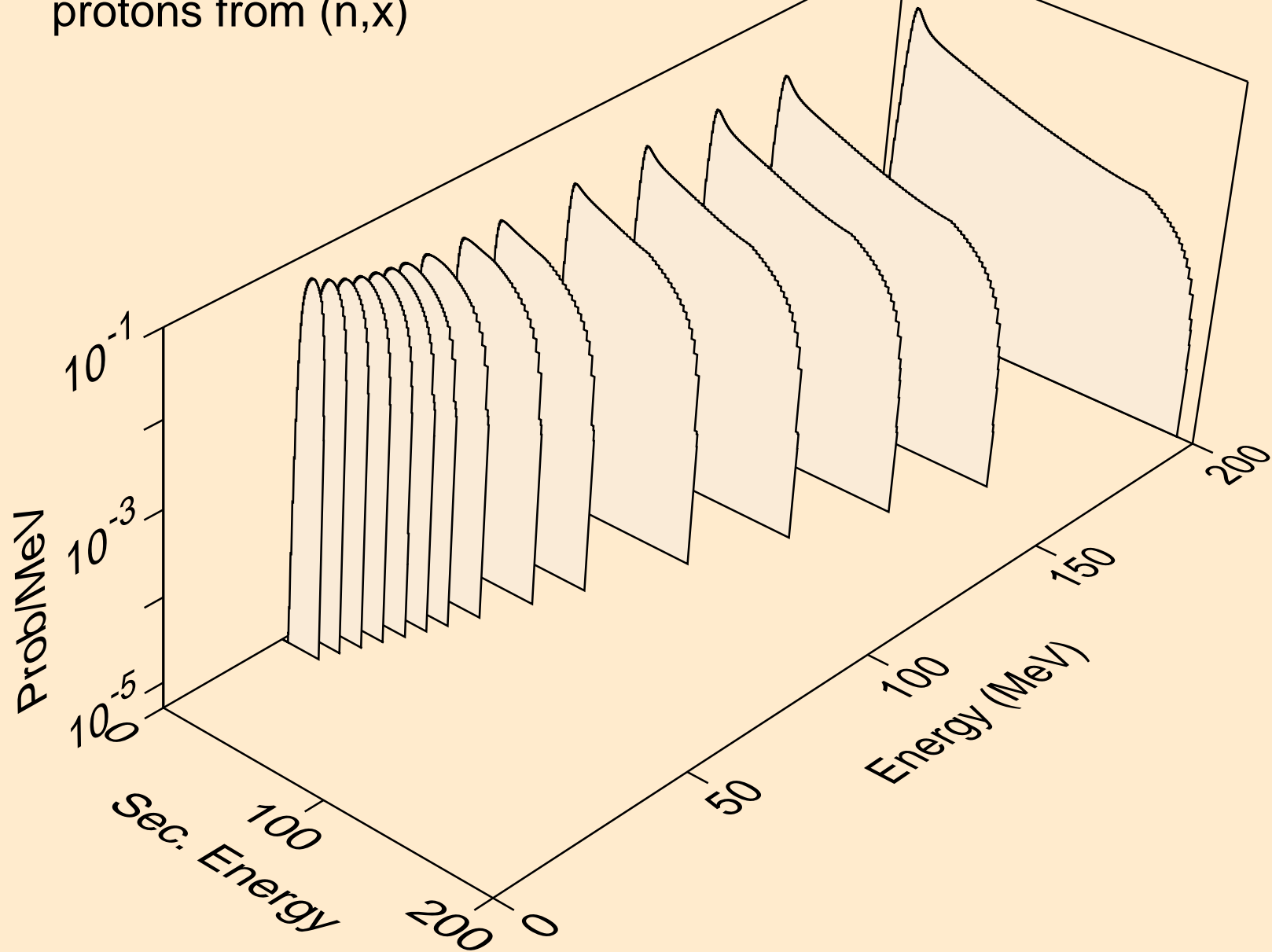
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating



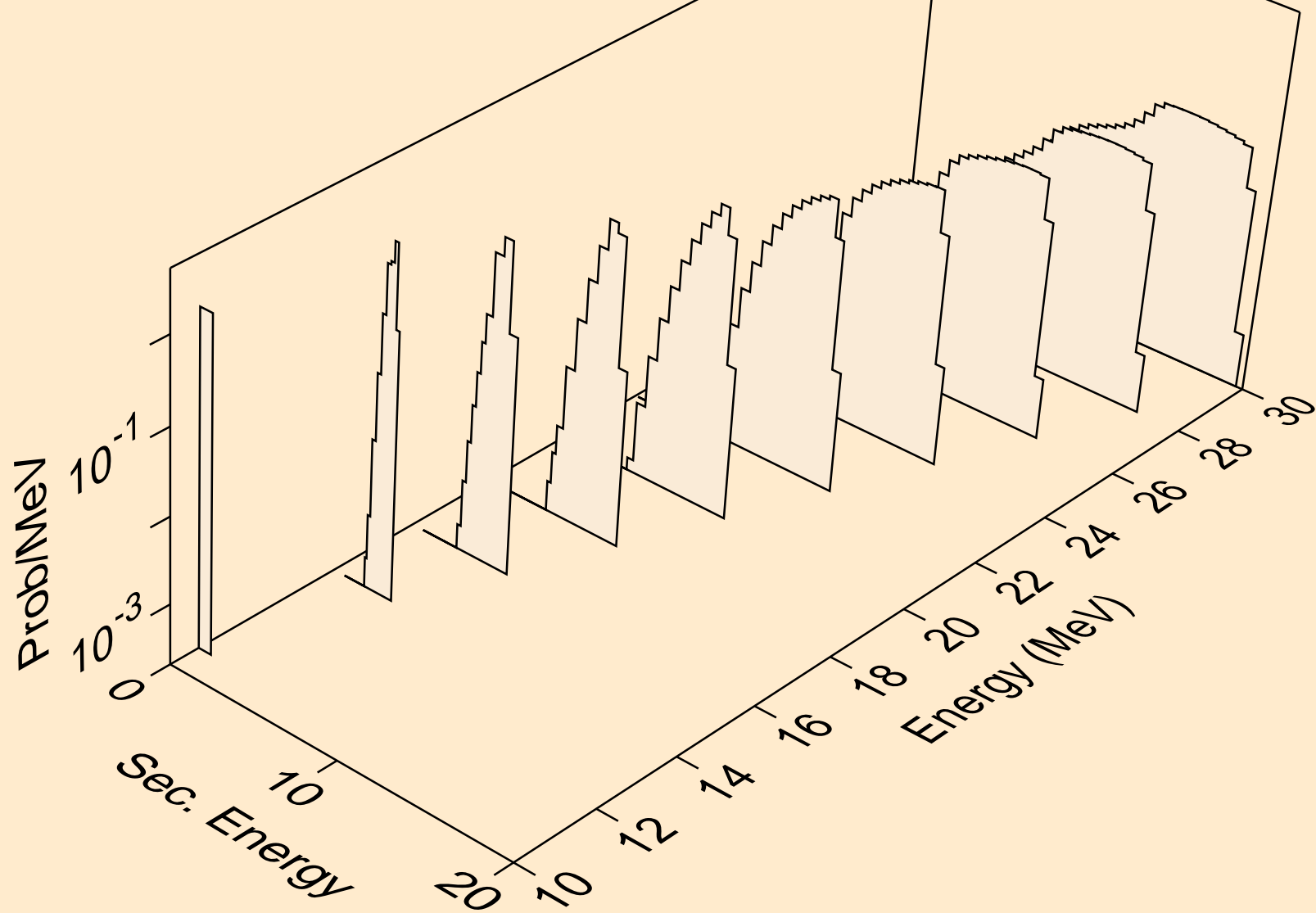
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)

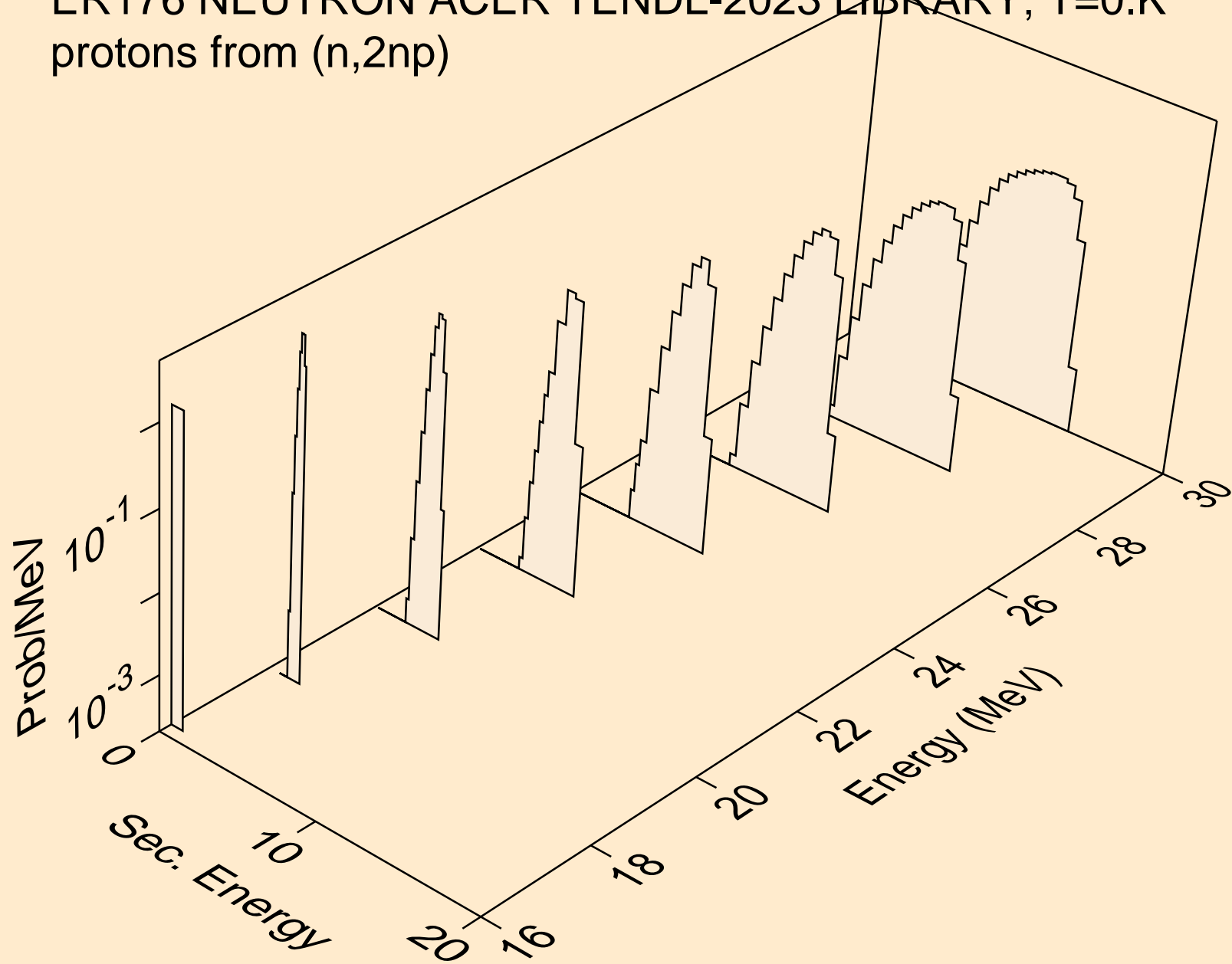


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p

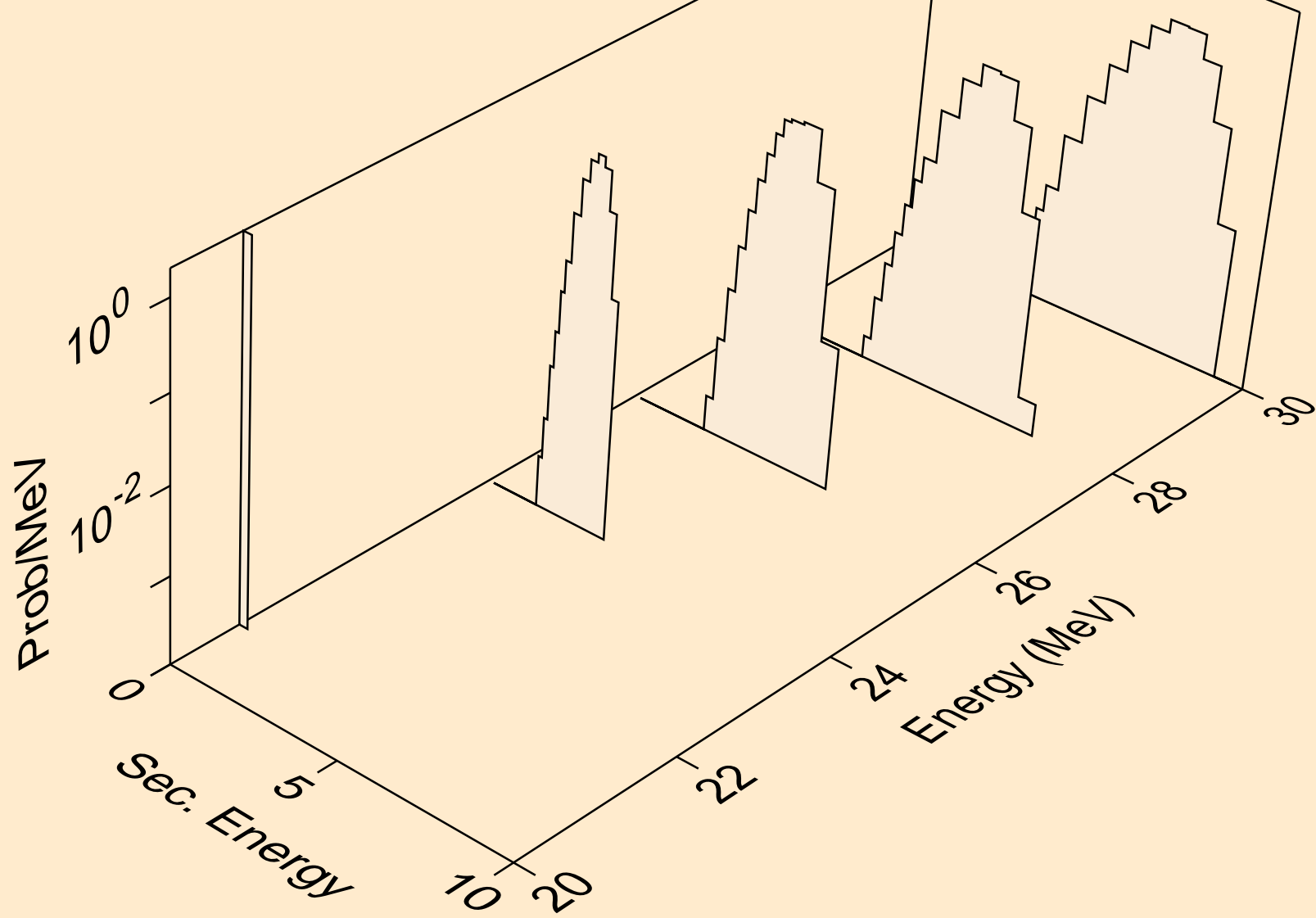




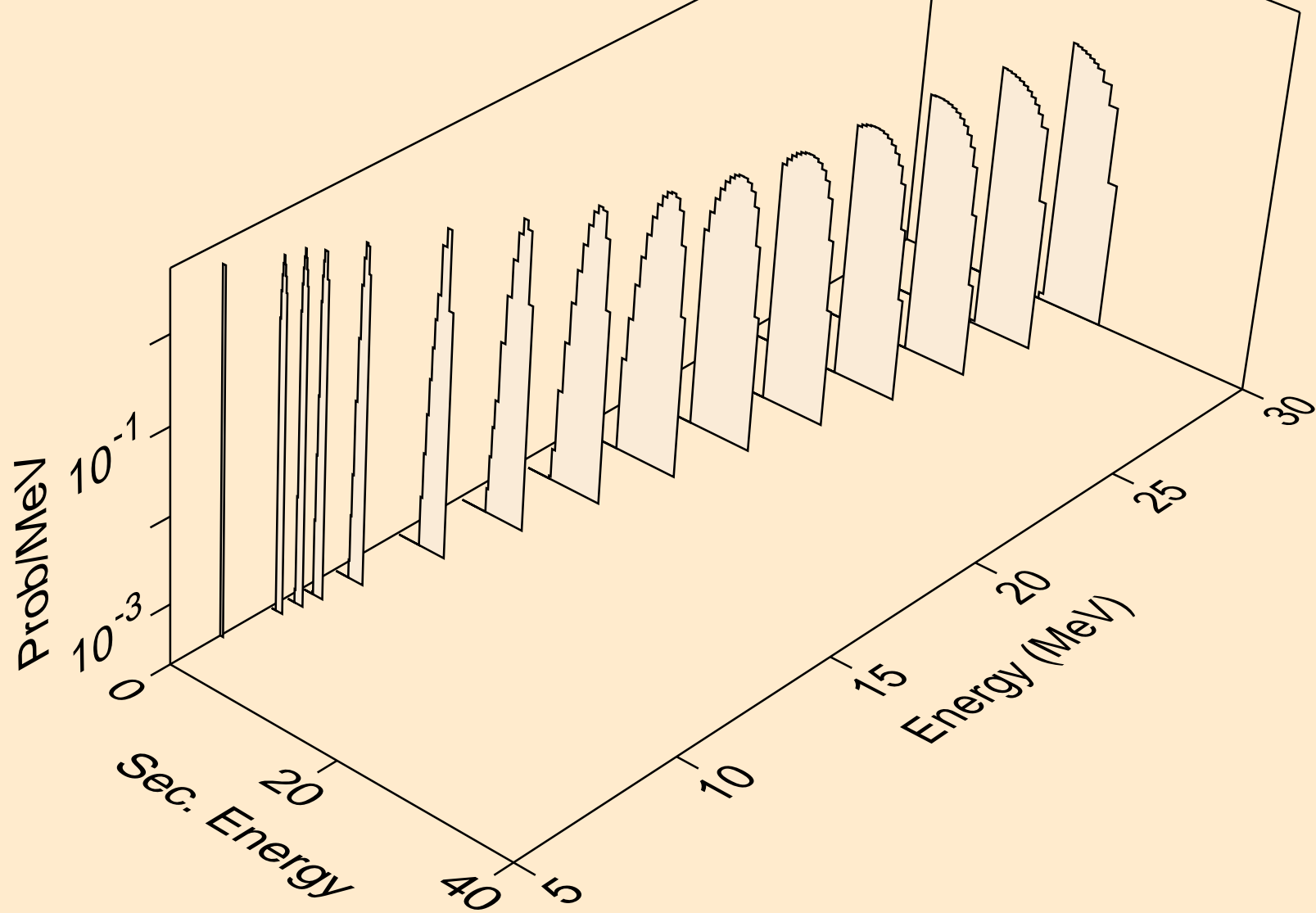
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



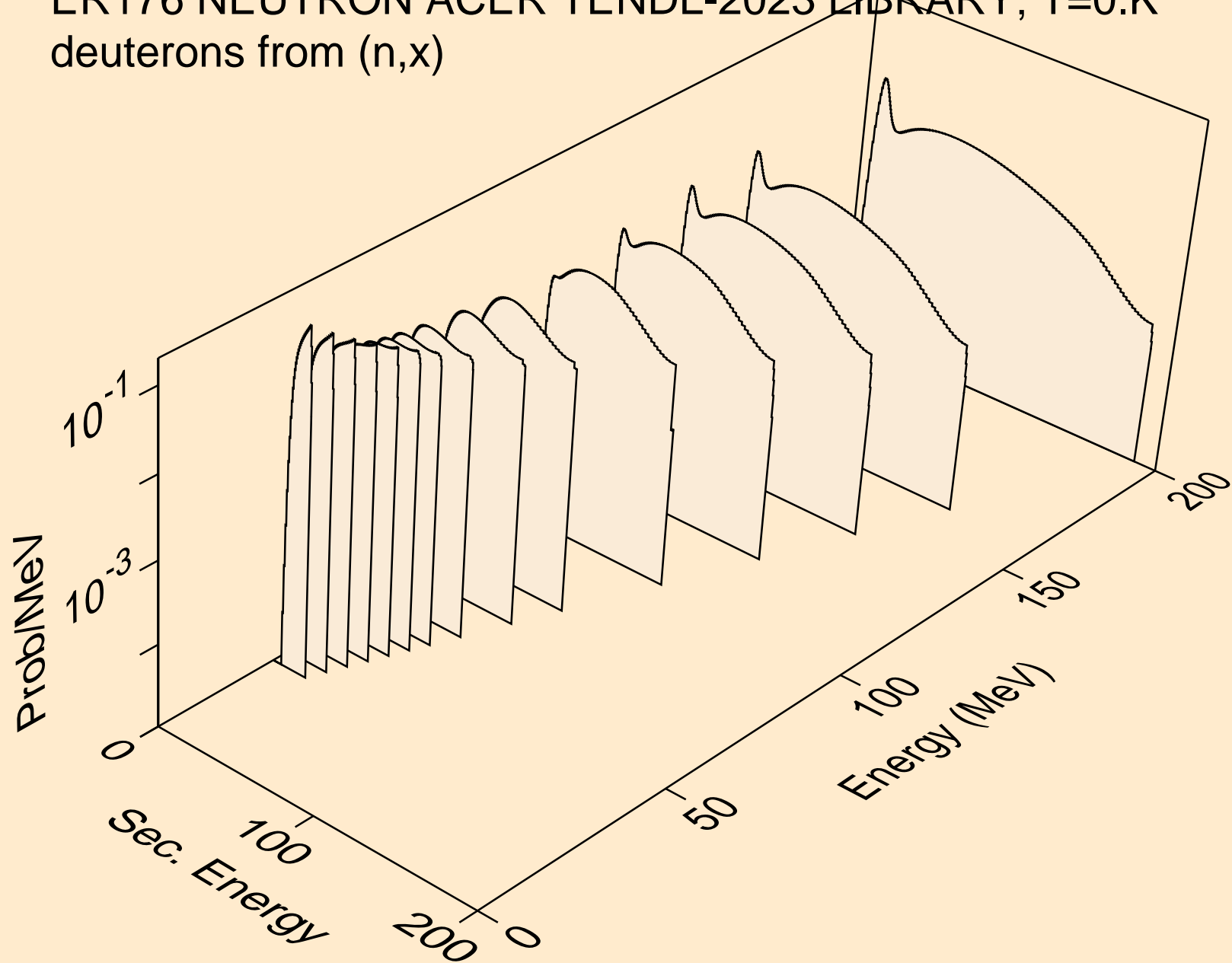
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,3np)



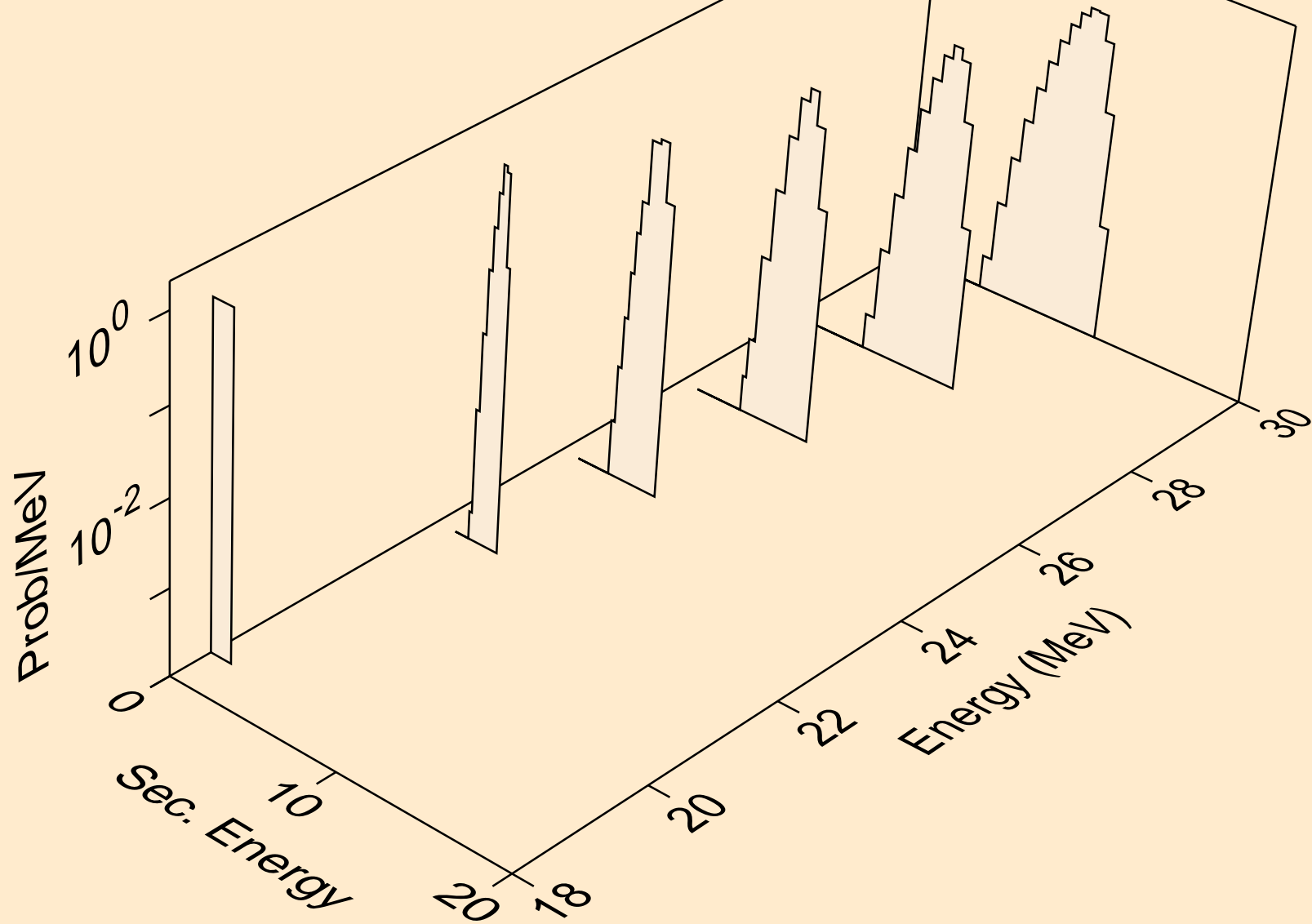
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)



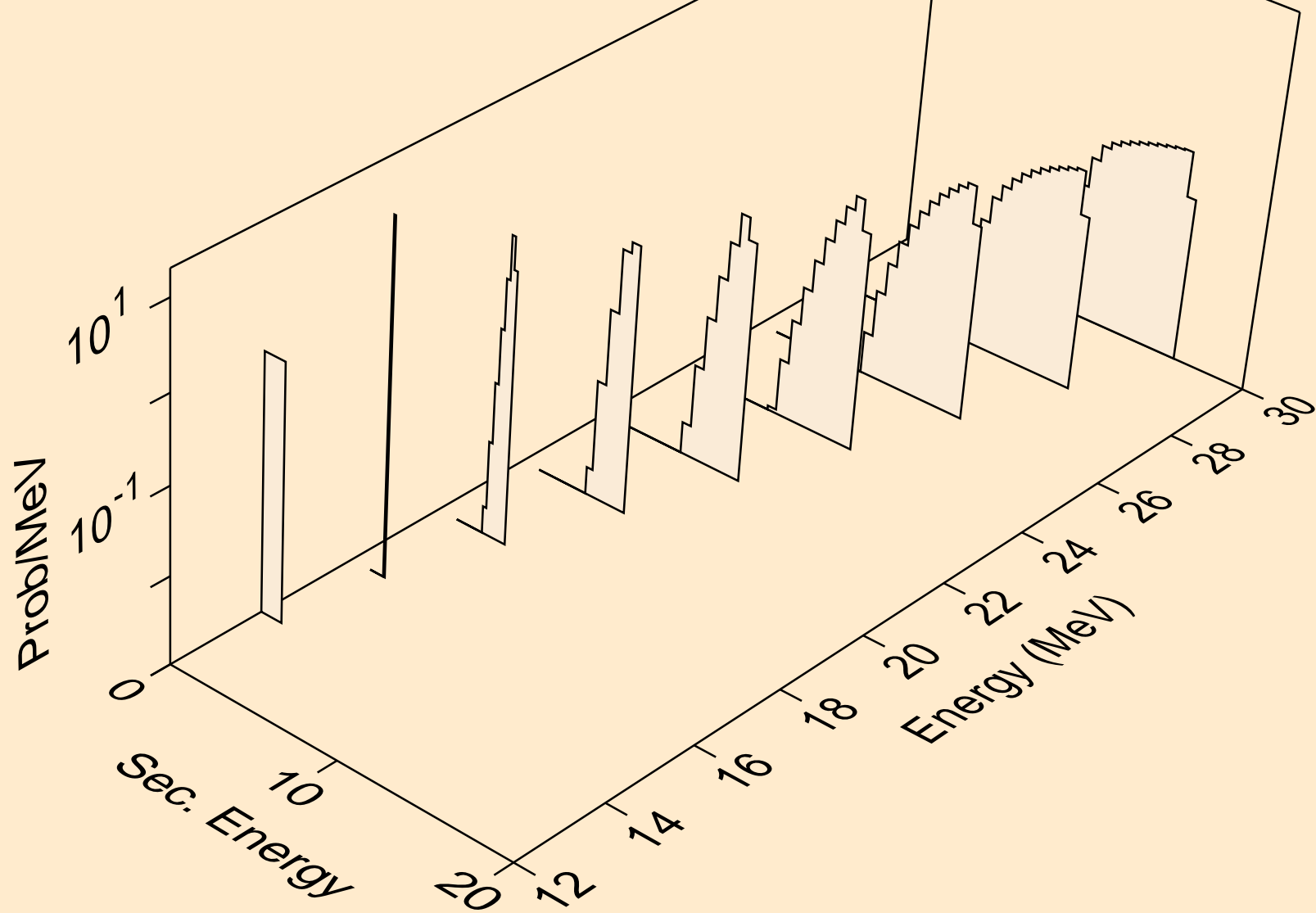
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)



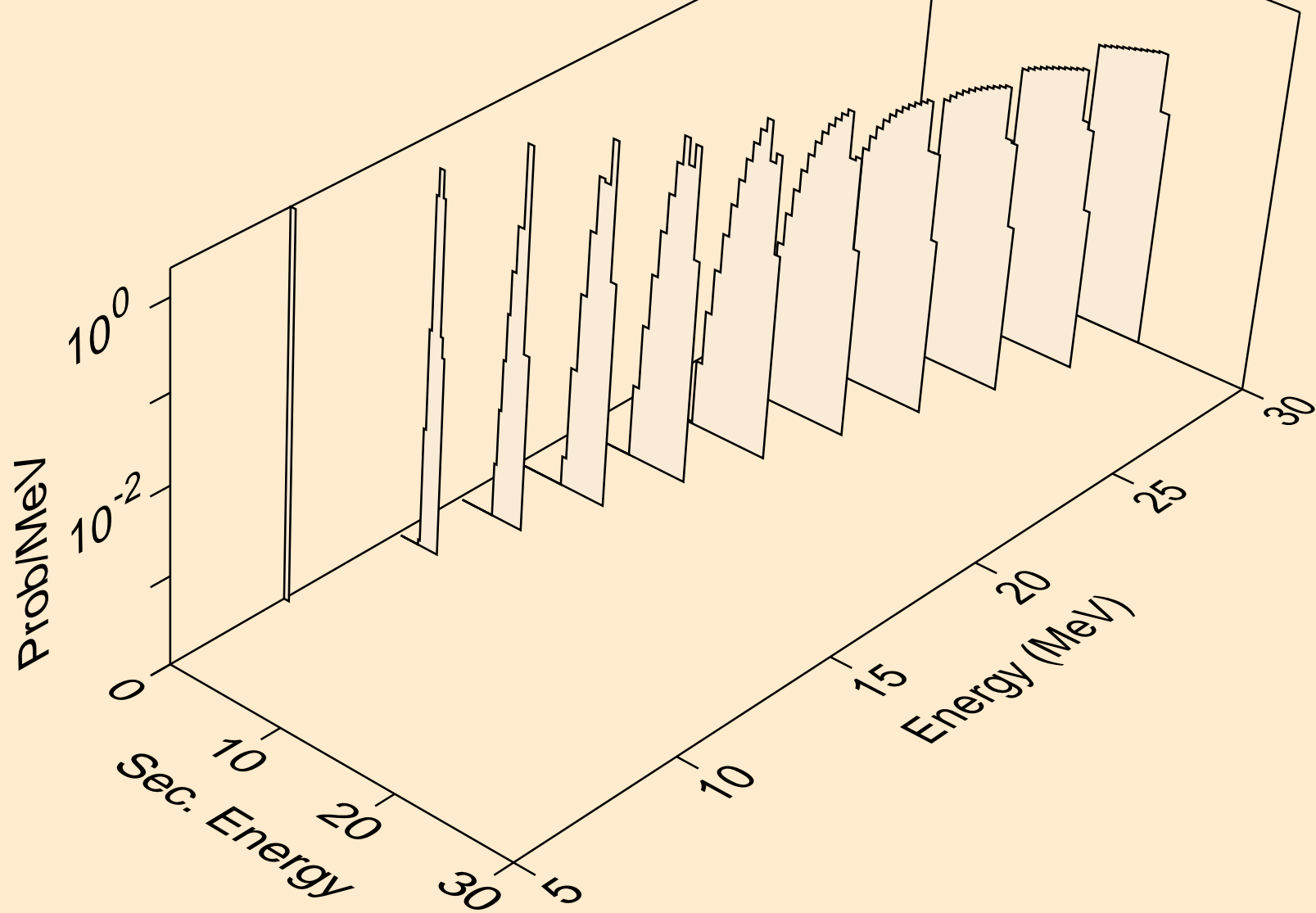
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deuterons from (n,2nd)



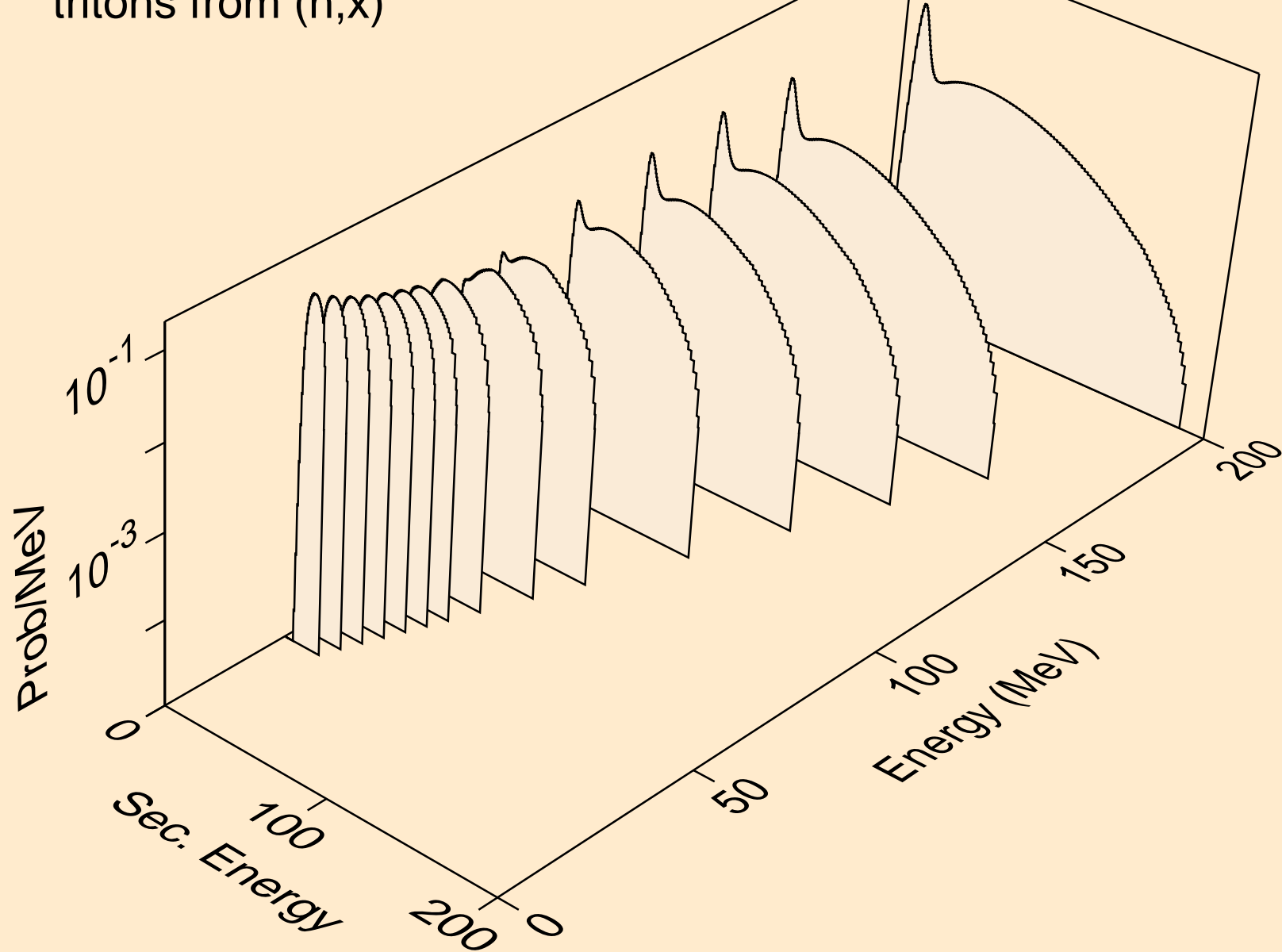
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,d)

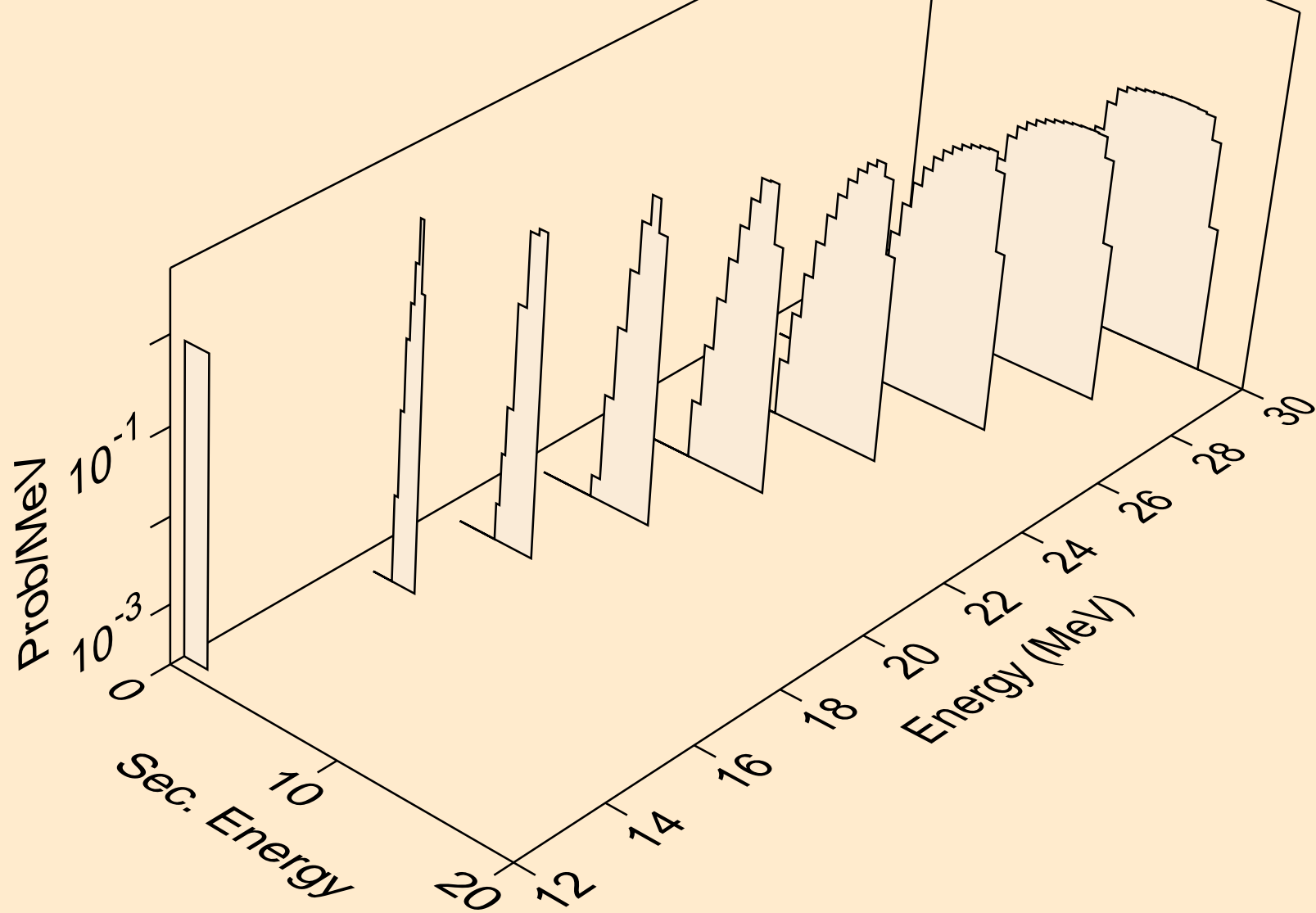


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)

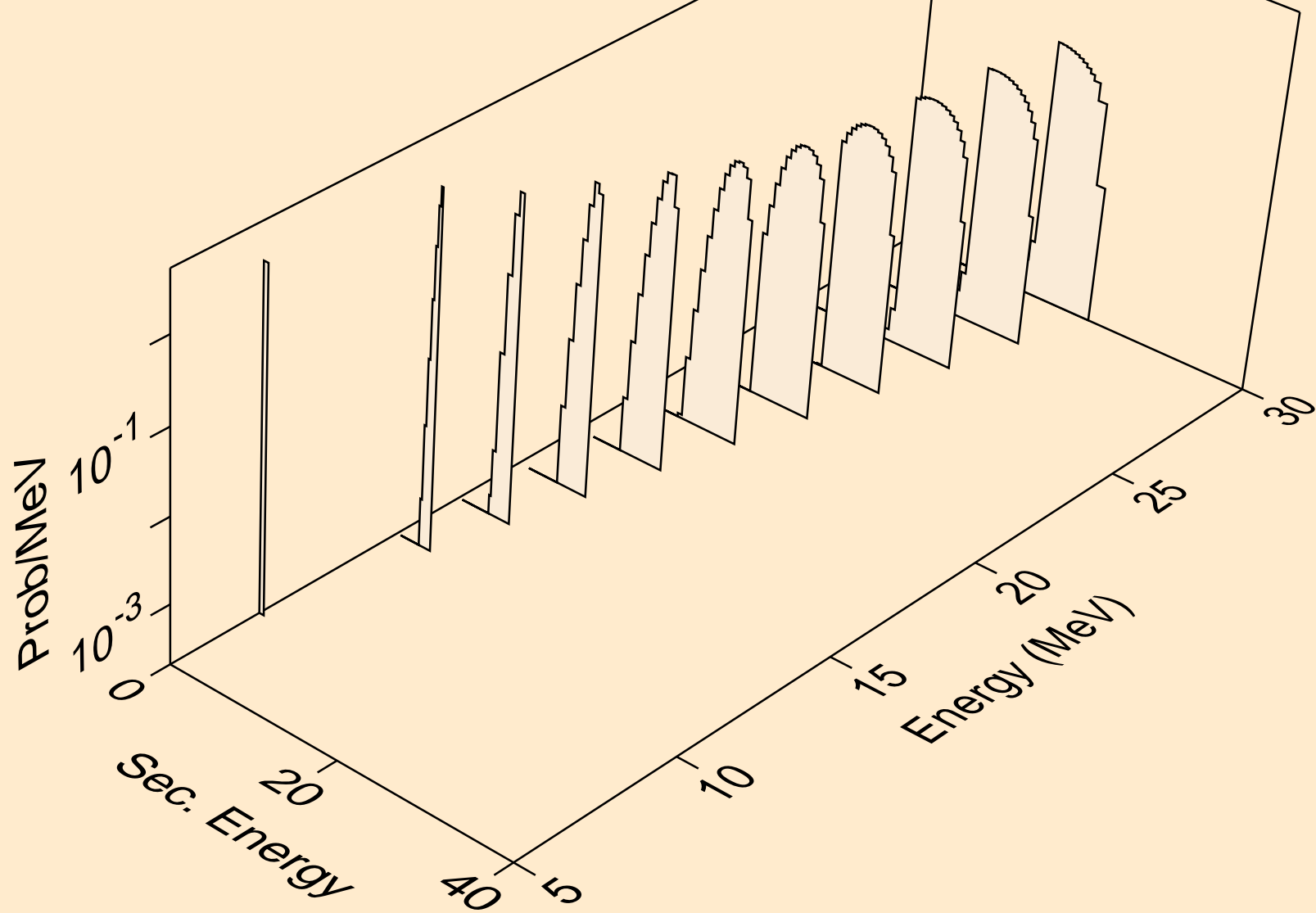




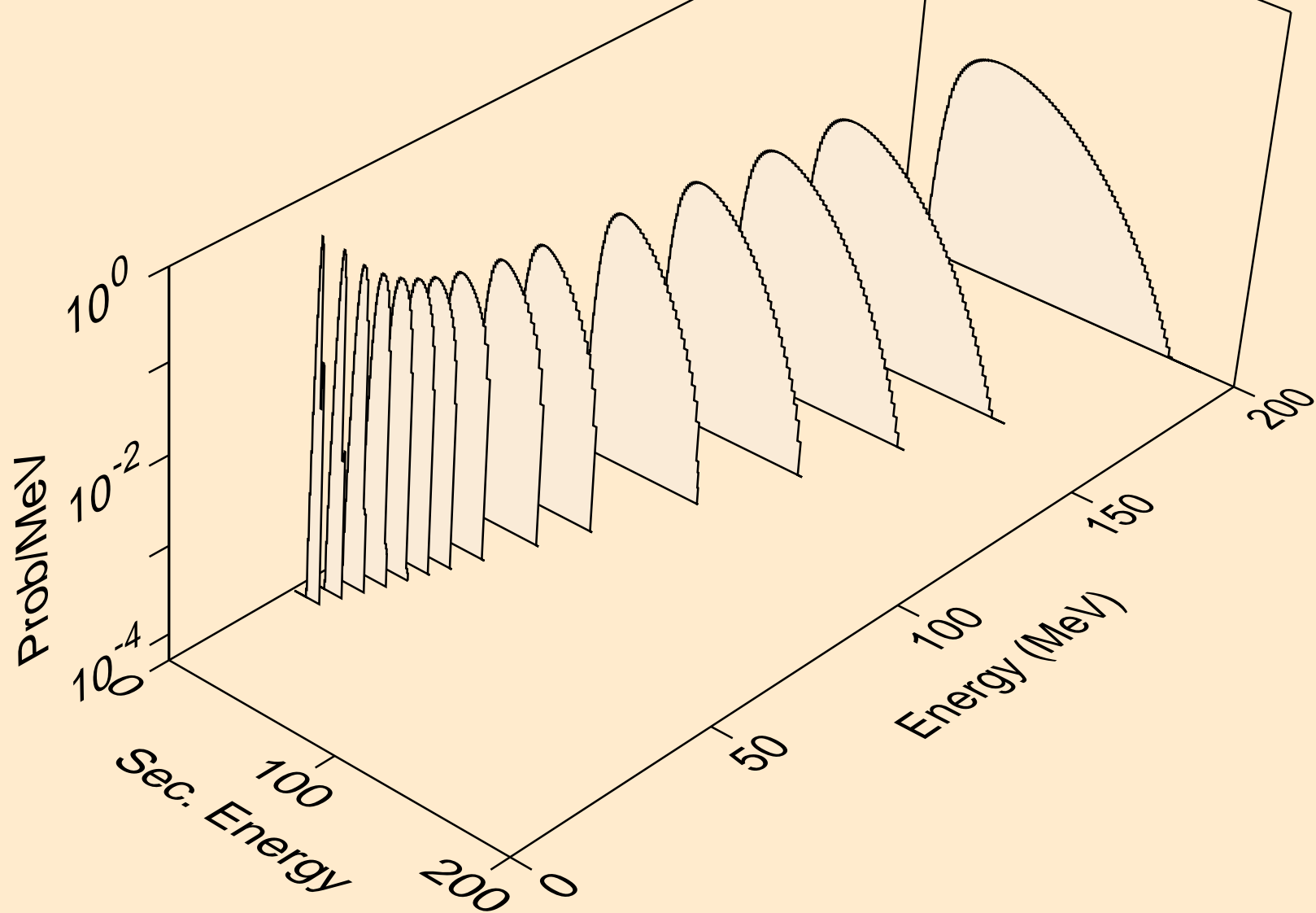
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



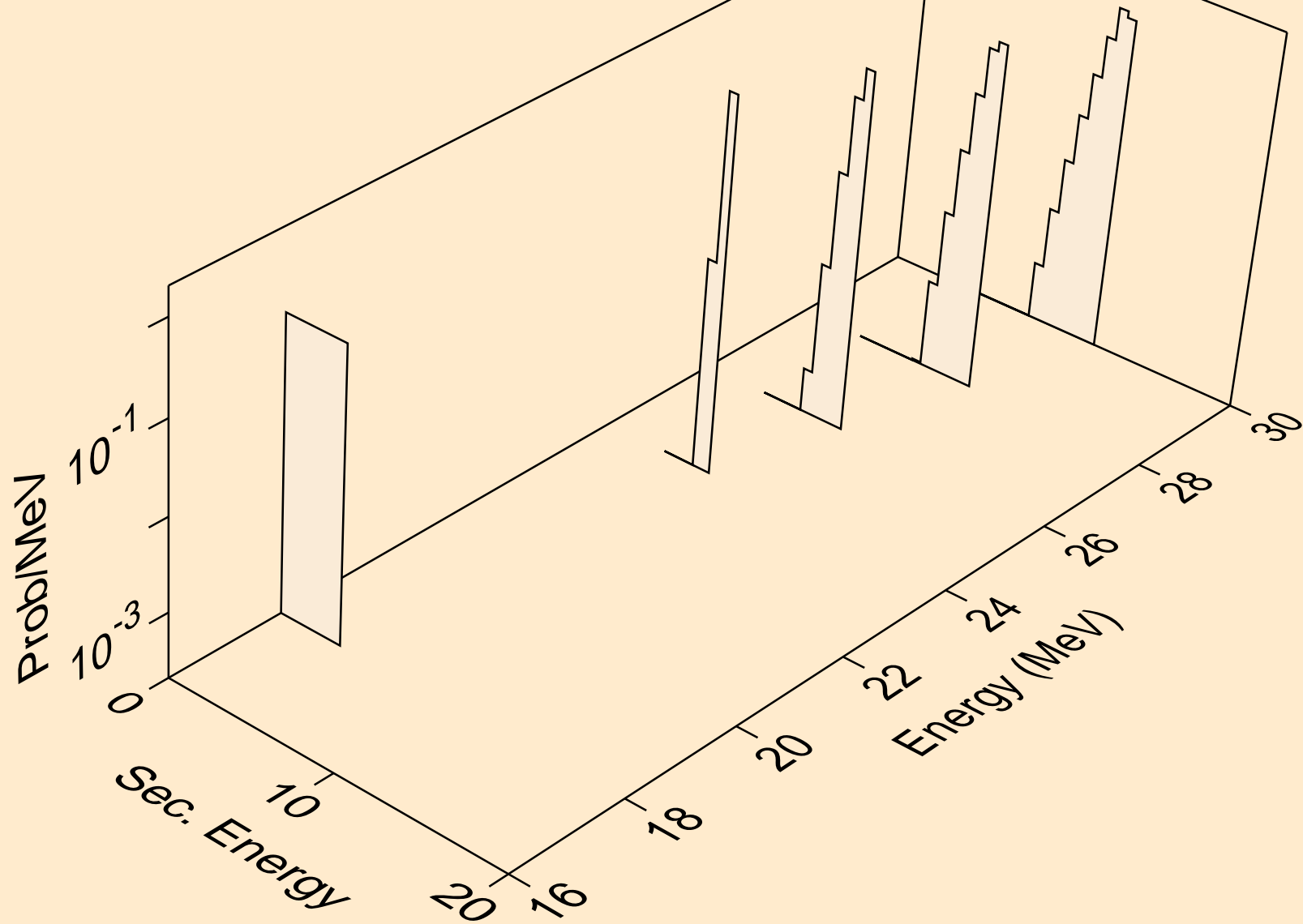
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tritons from (n,t)



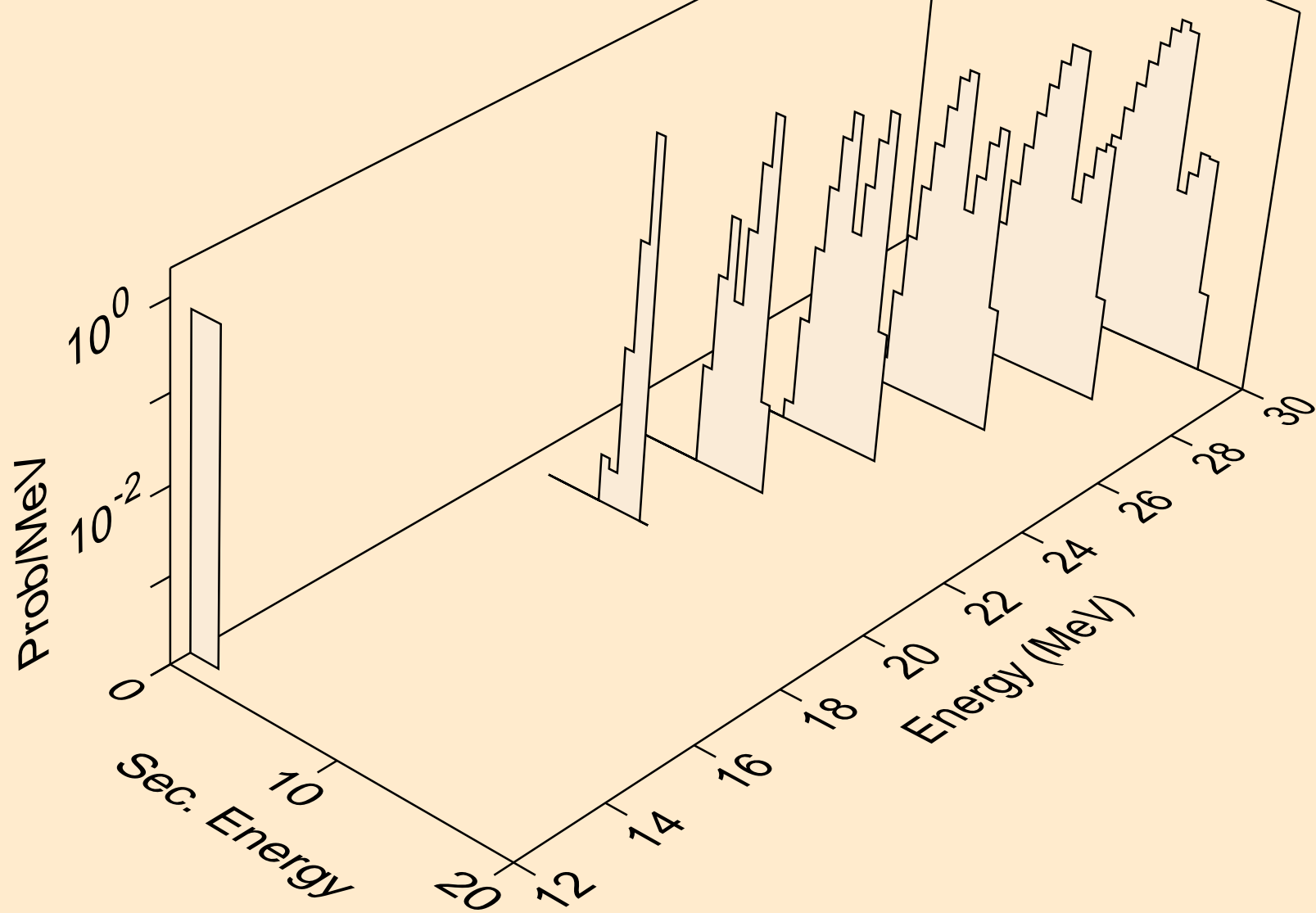
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



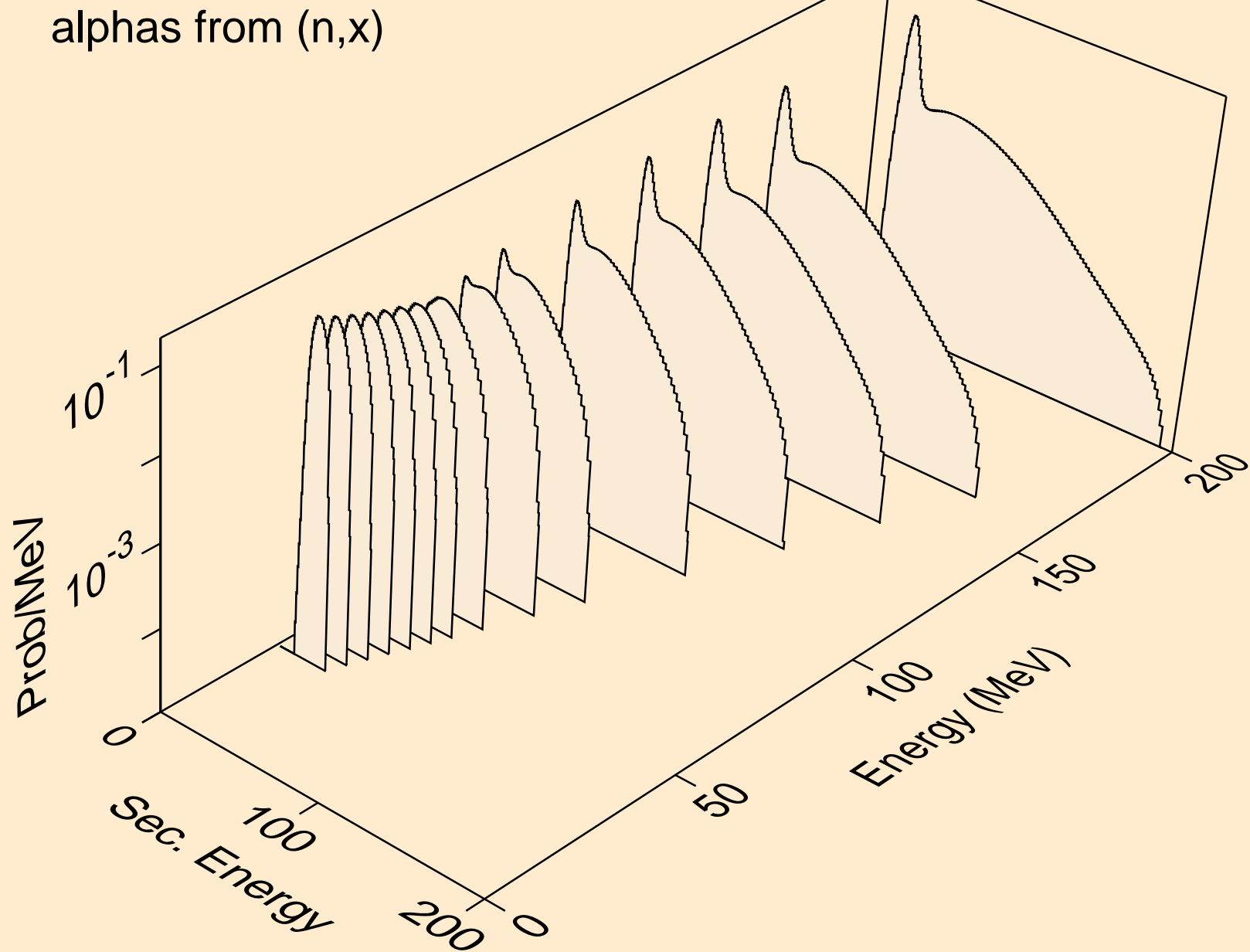
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3



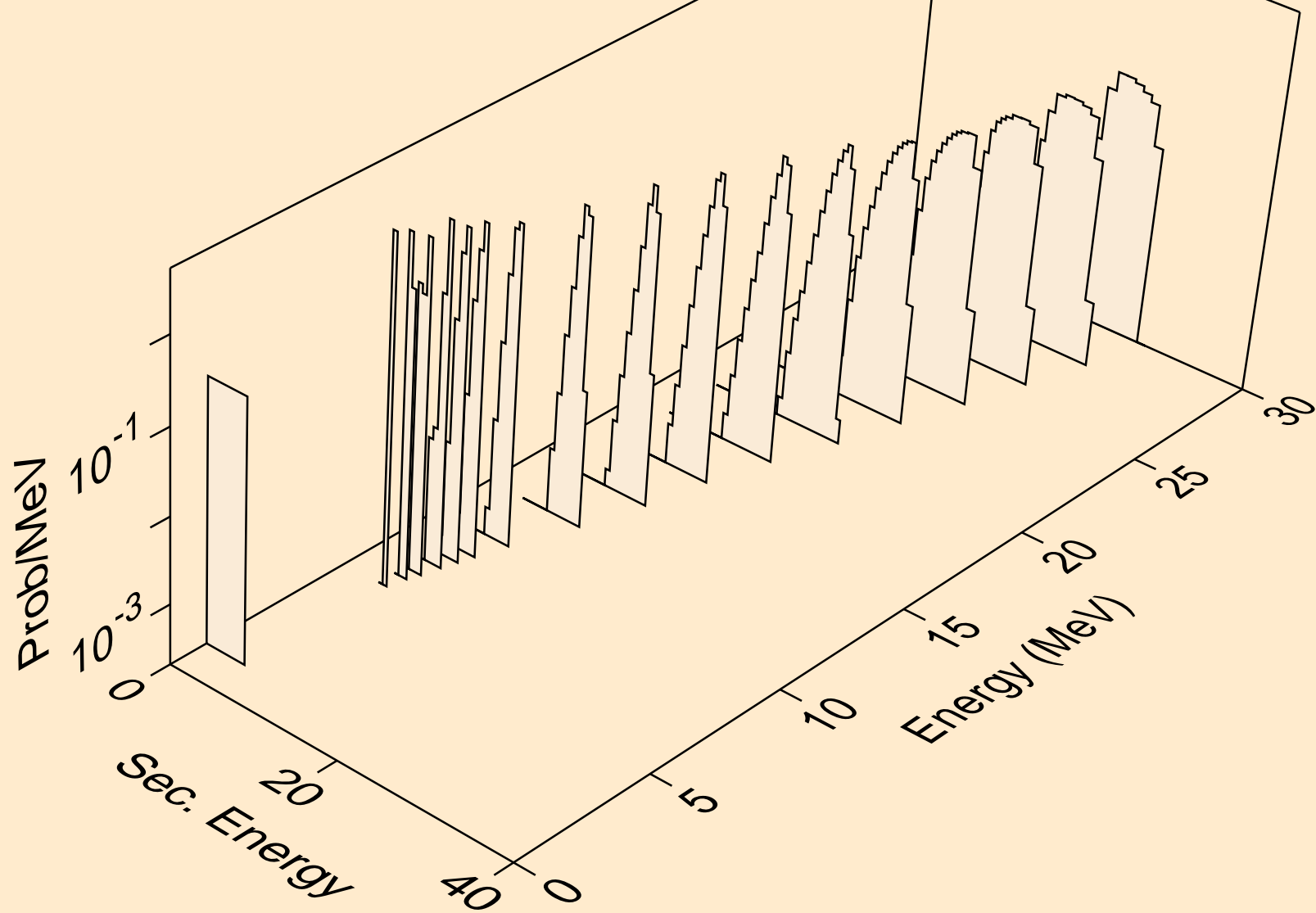
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)



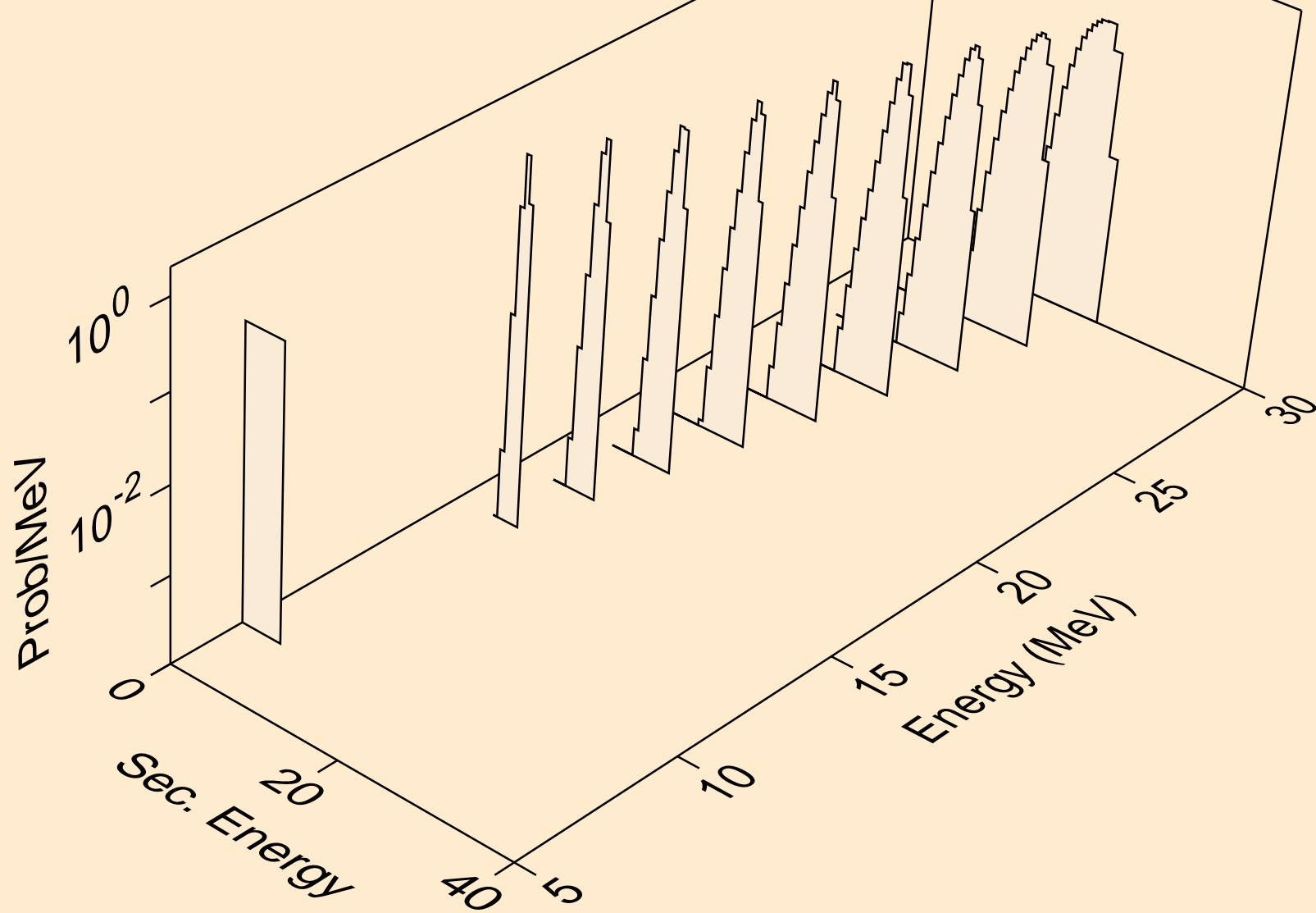
ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a

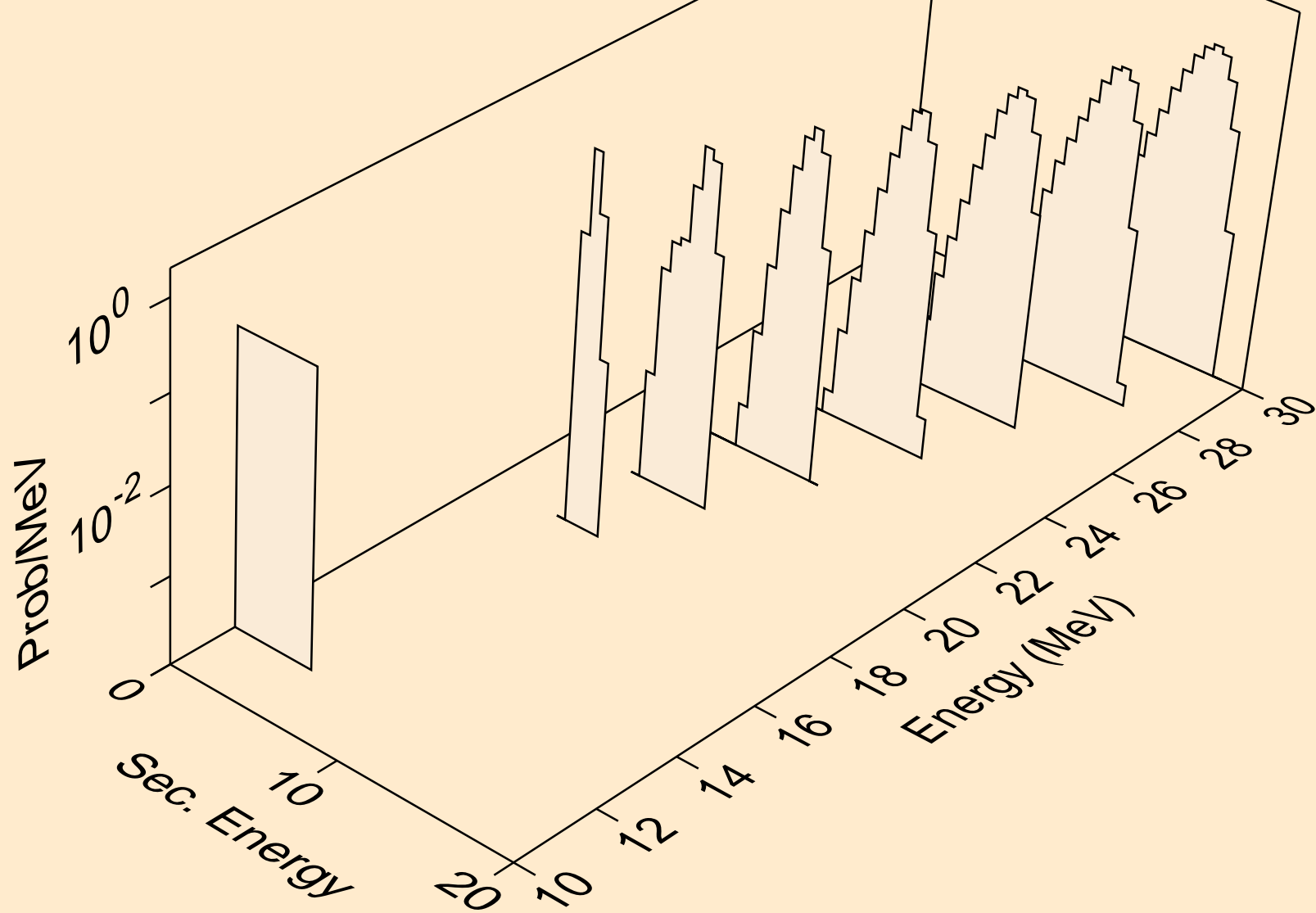


ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a





ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3n)a



ER176 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)

