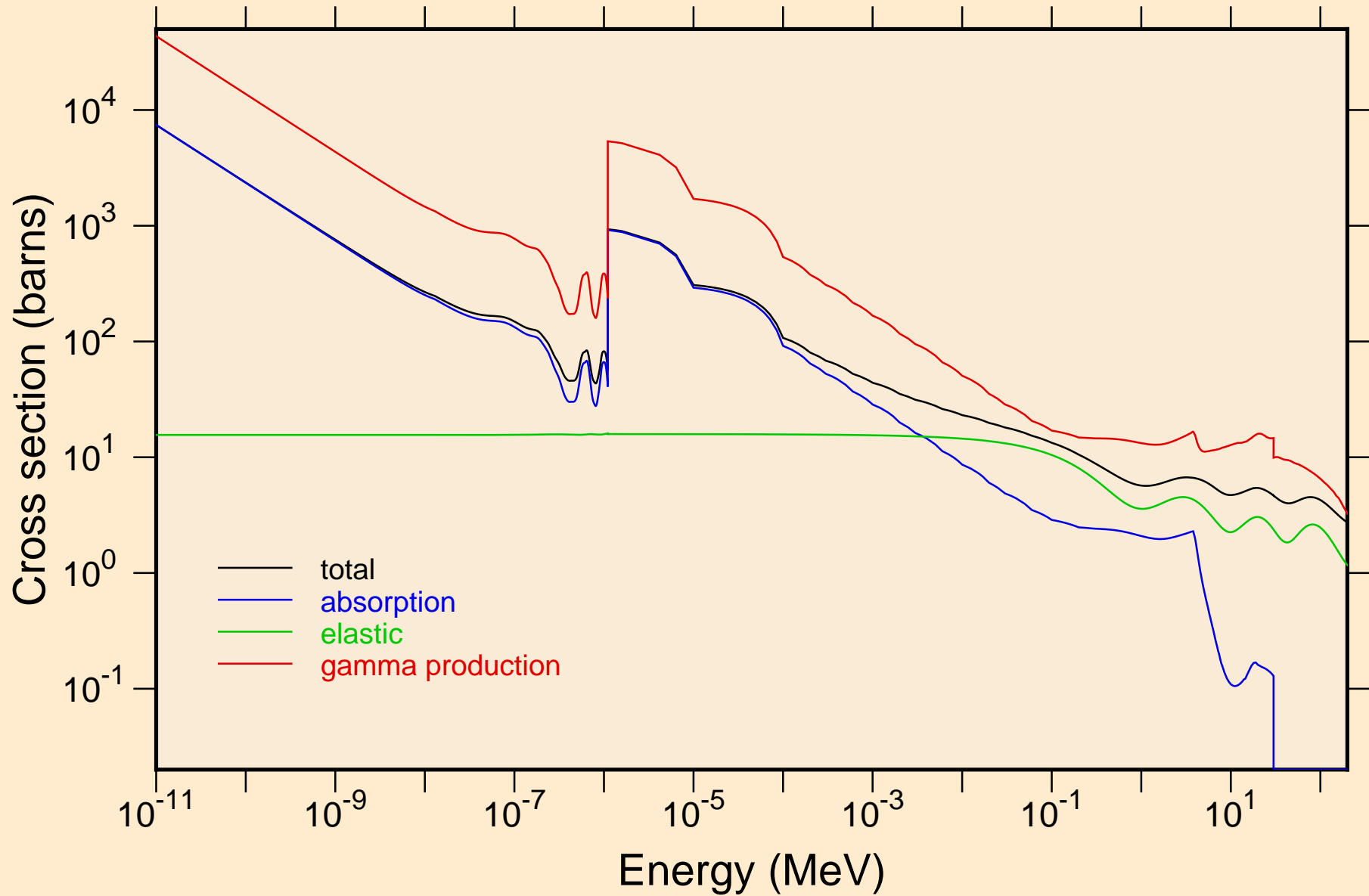


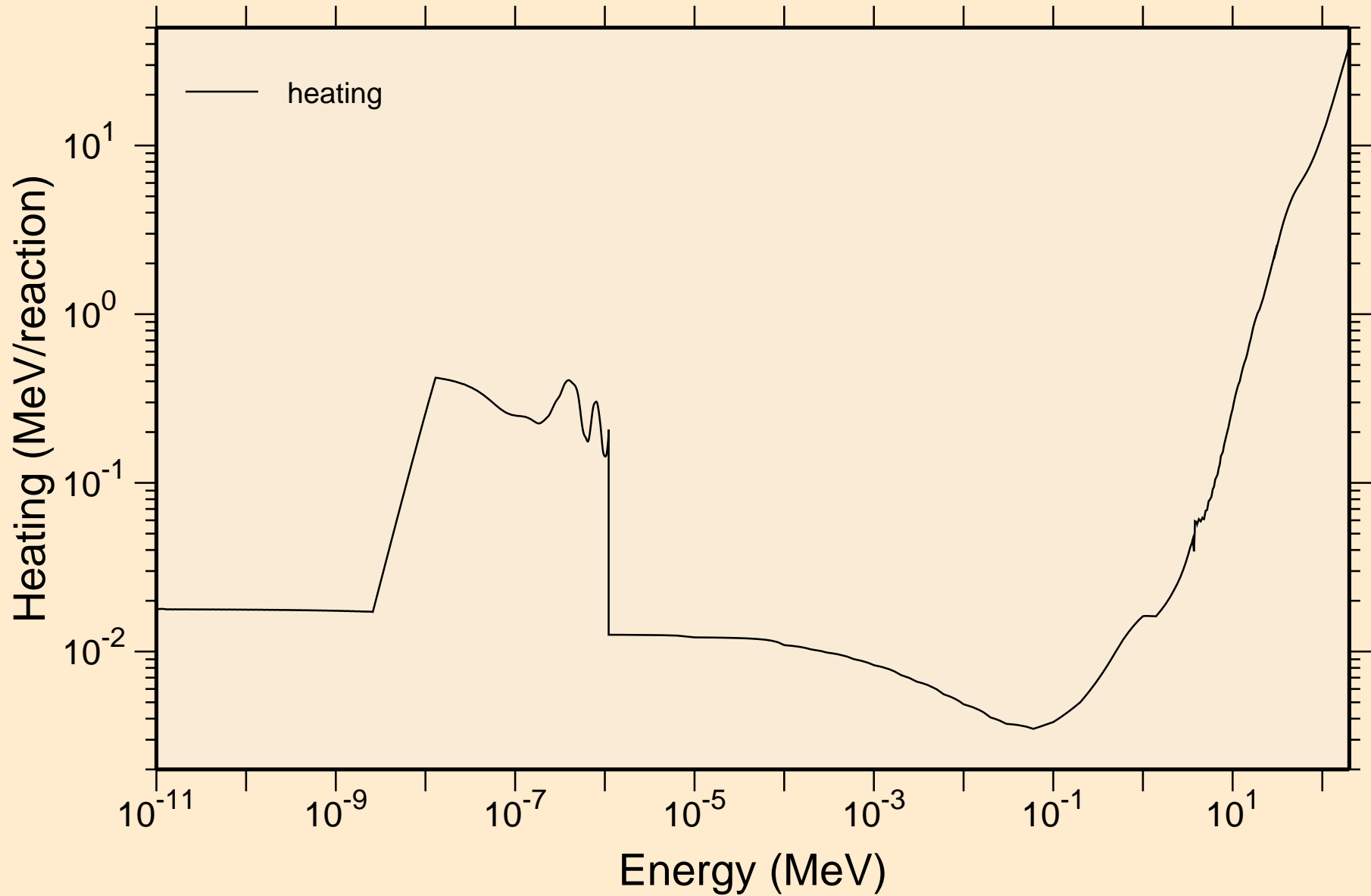
# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



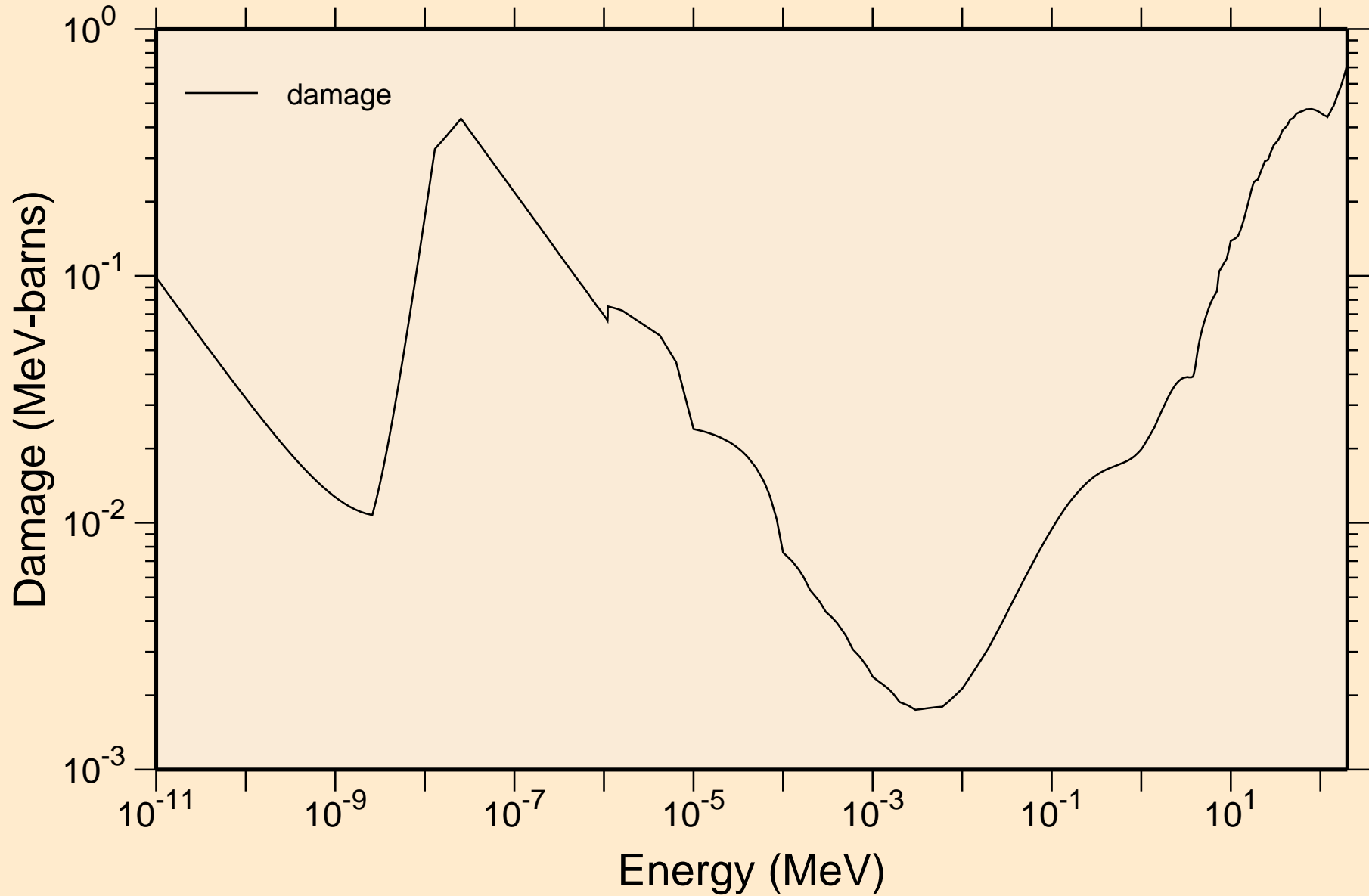
# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating



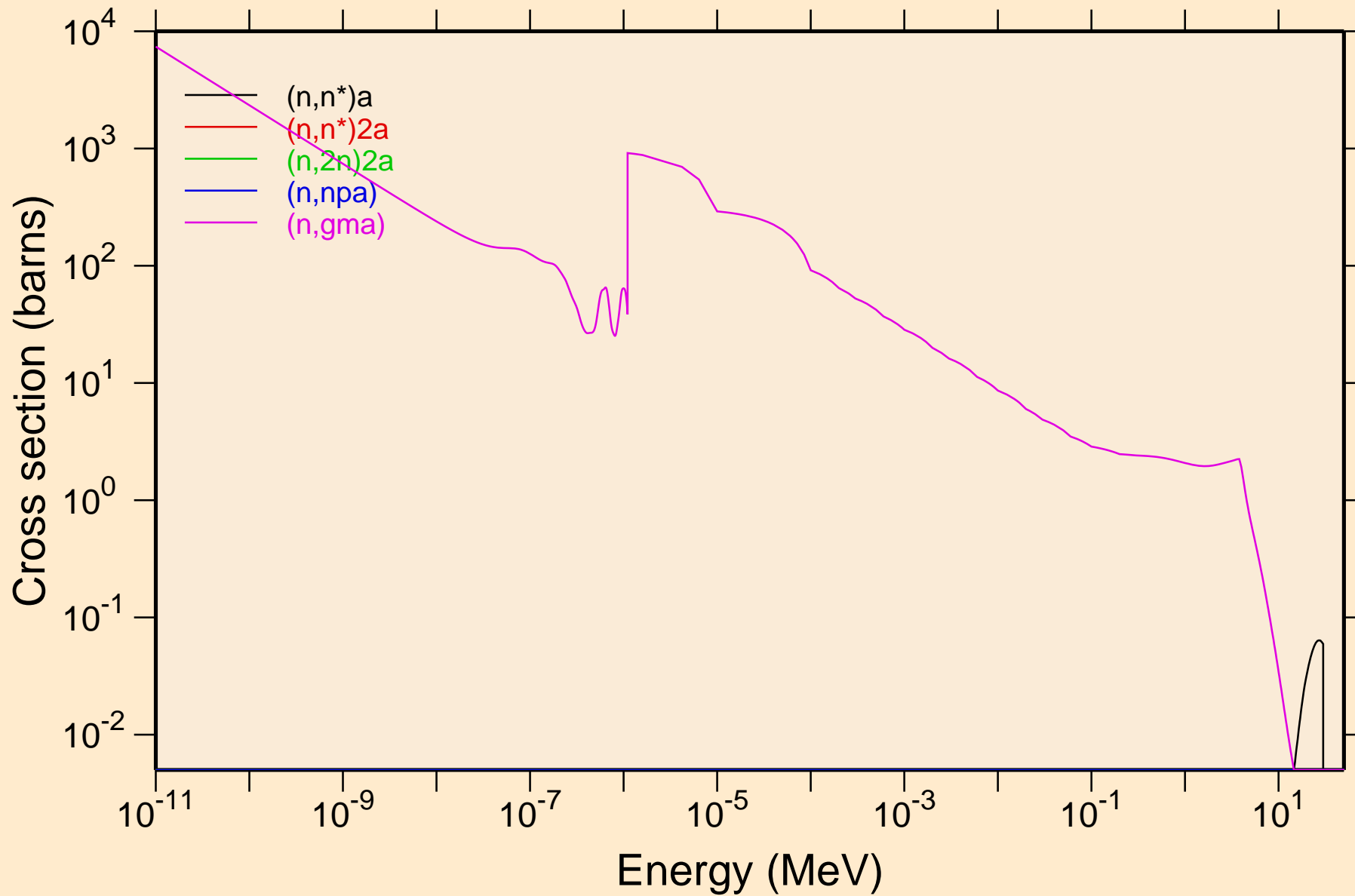
# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Damage



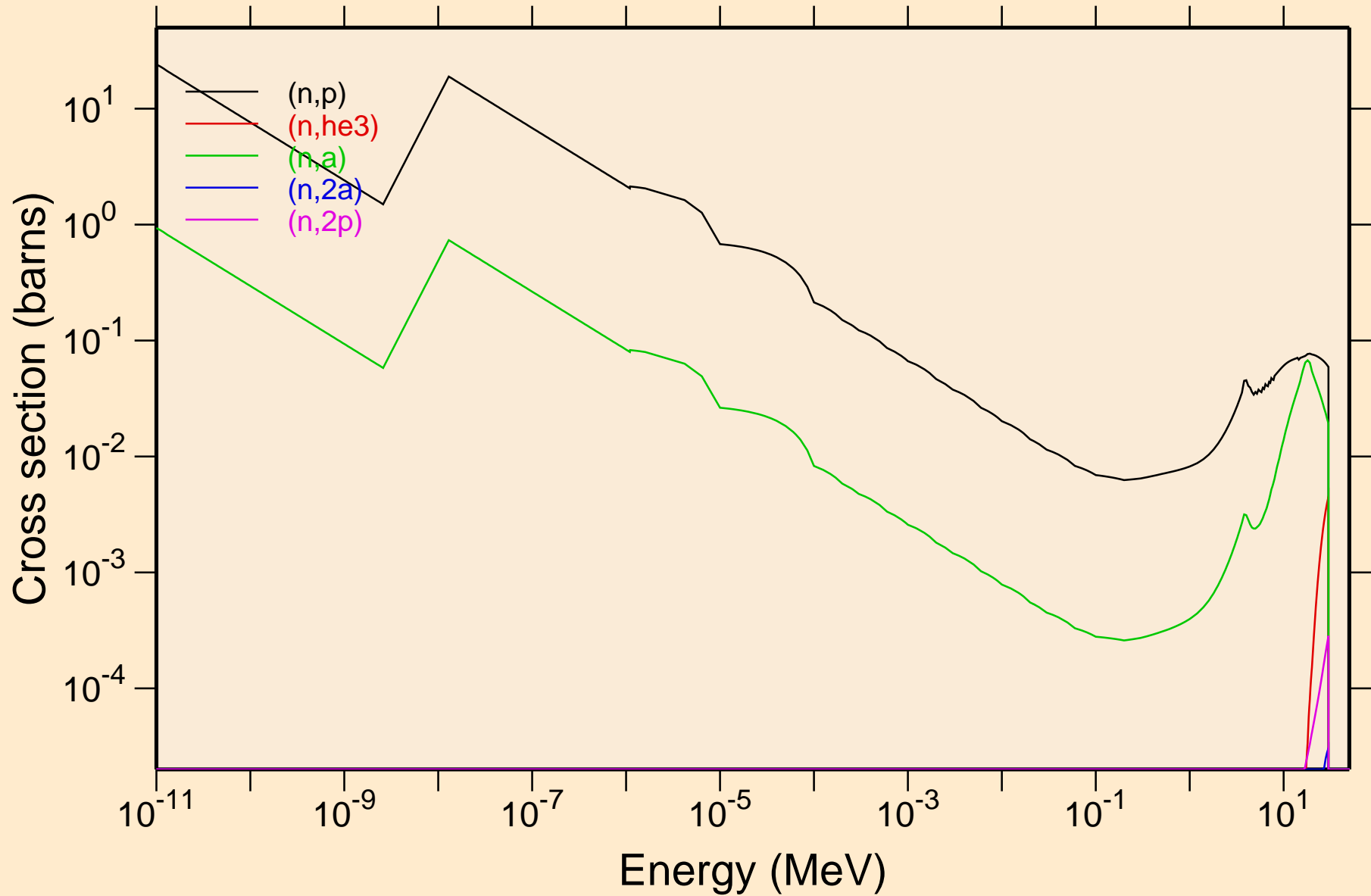
# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions



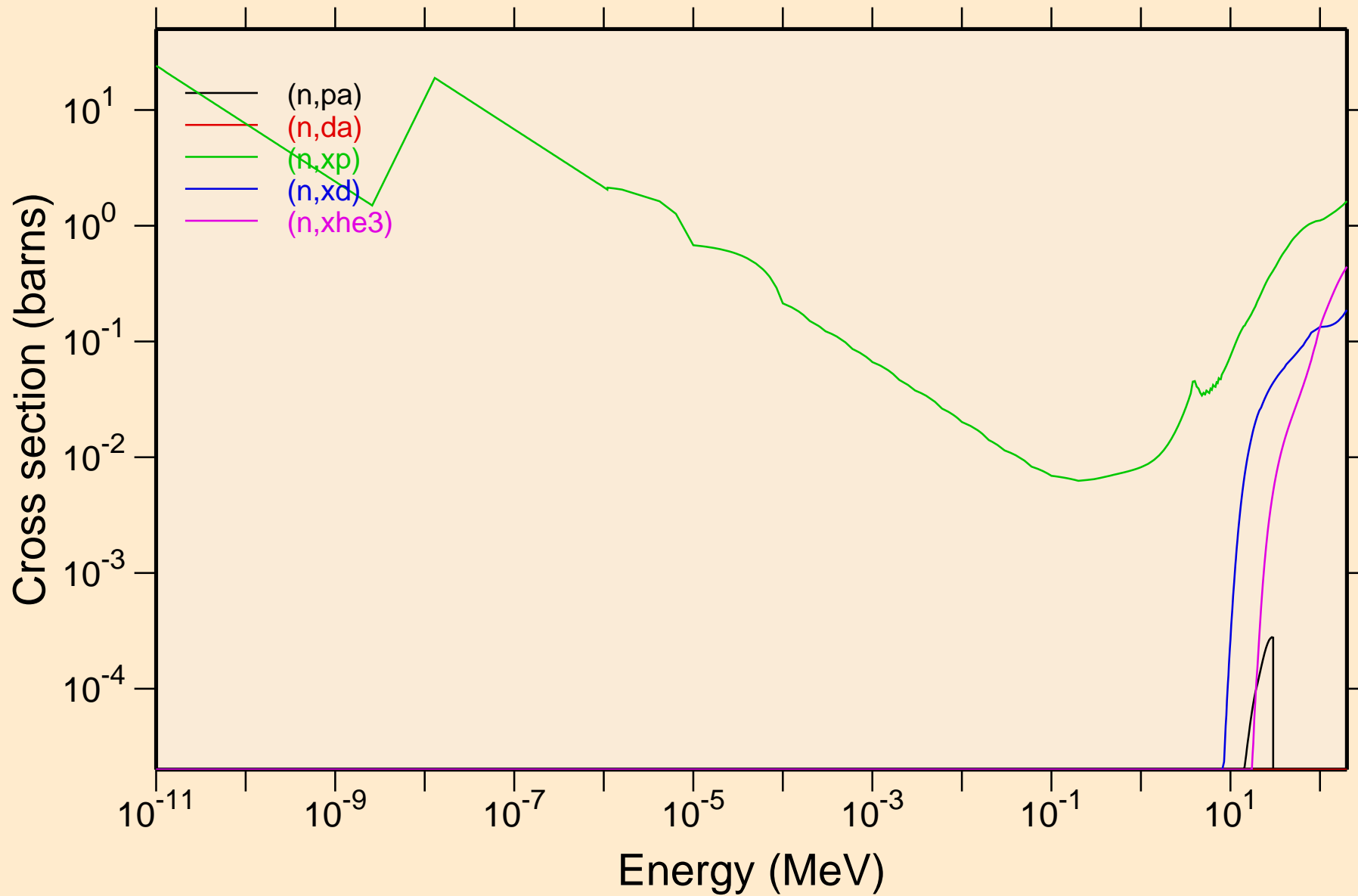
# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions

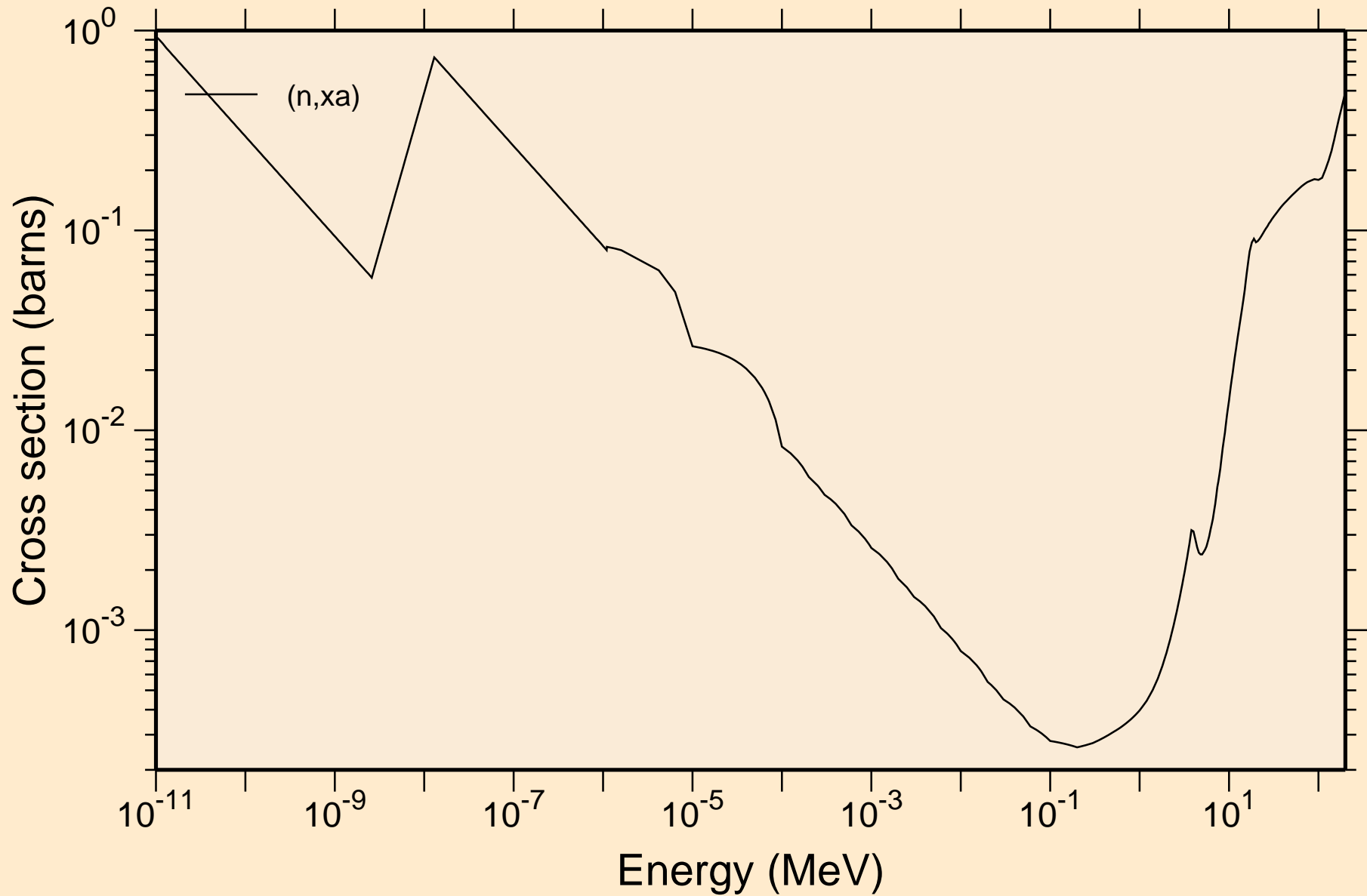


# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions

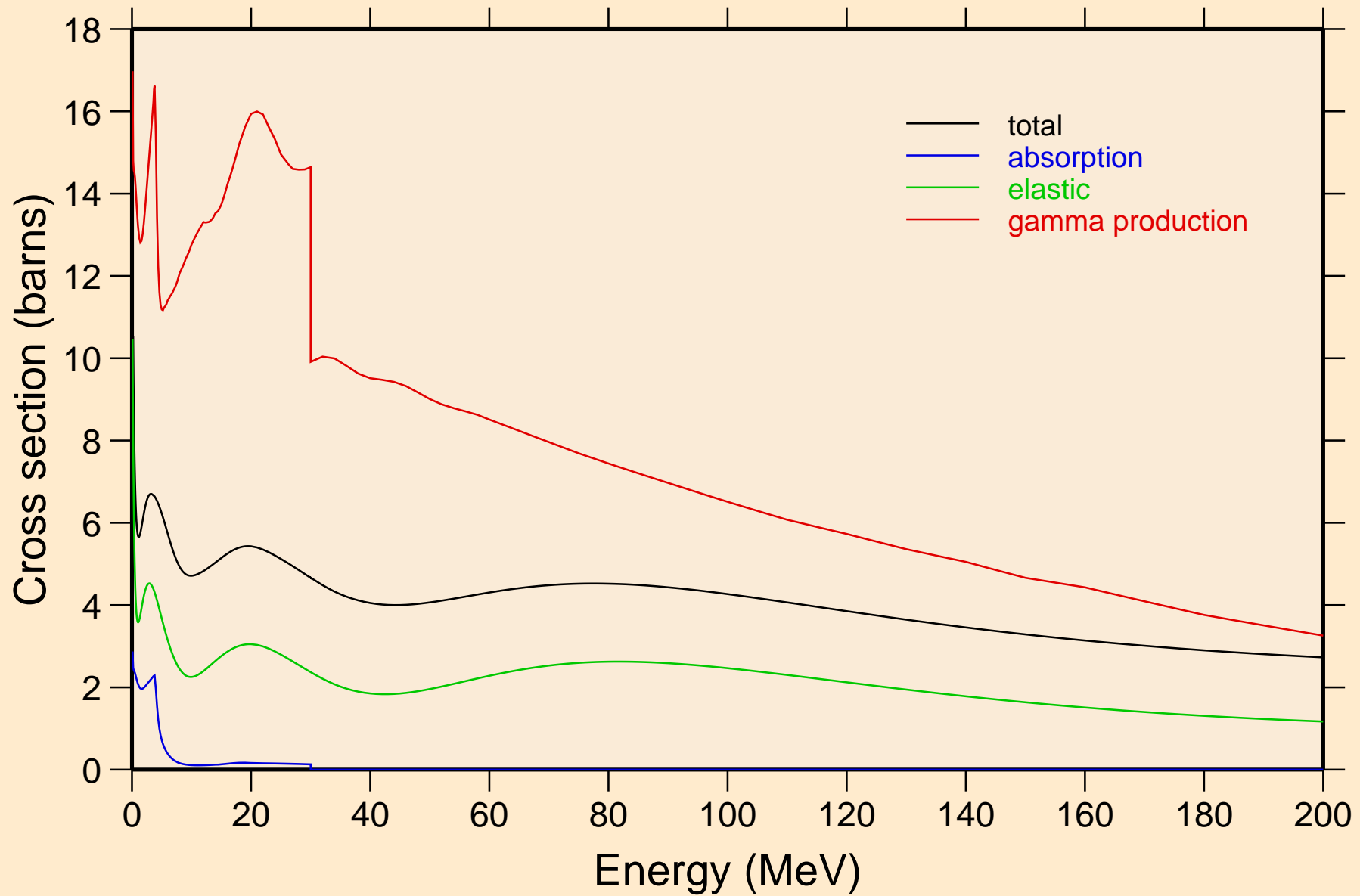


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

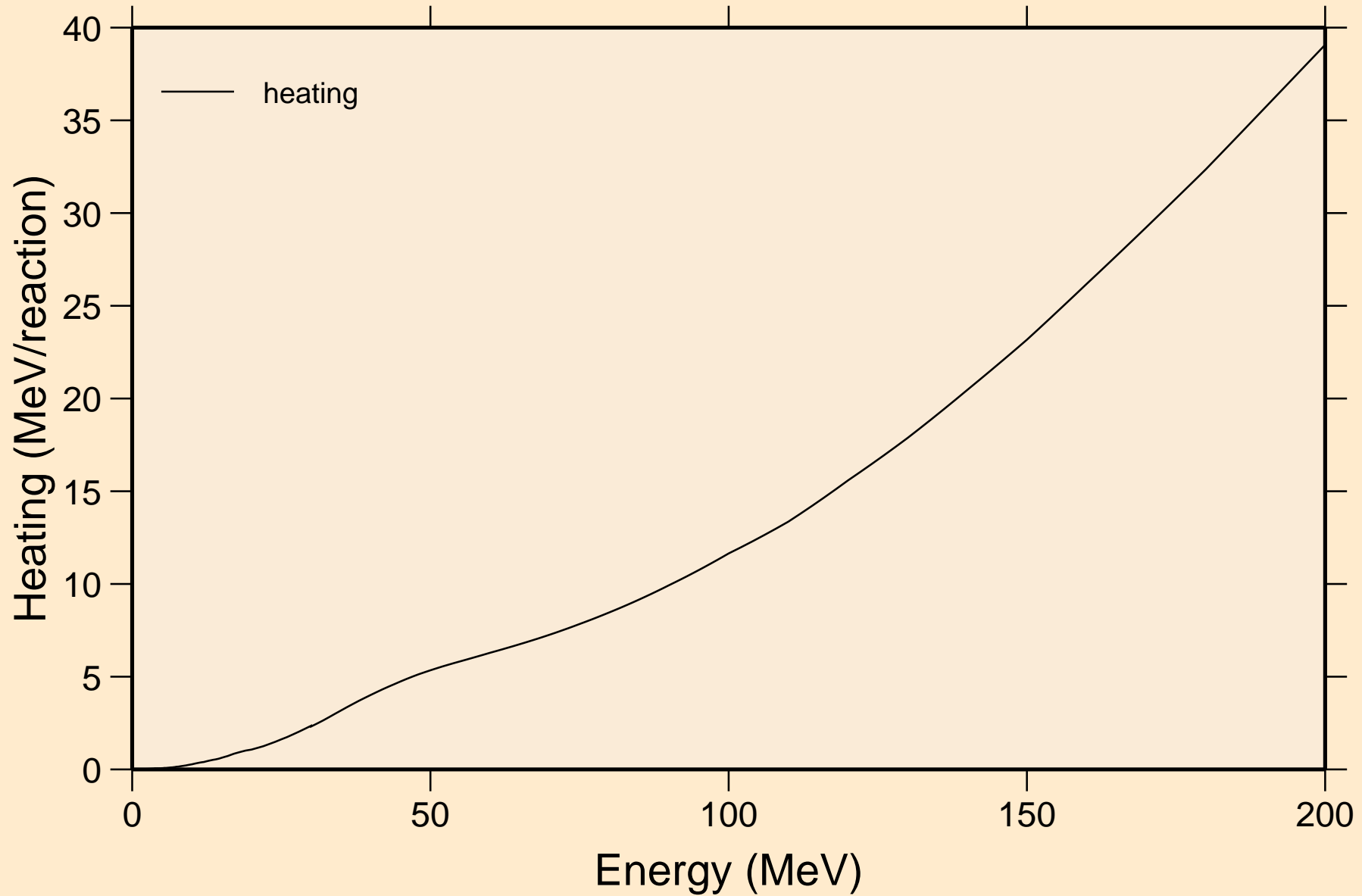
## Principal cross sections





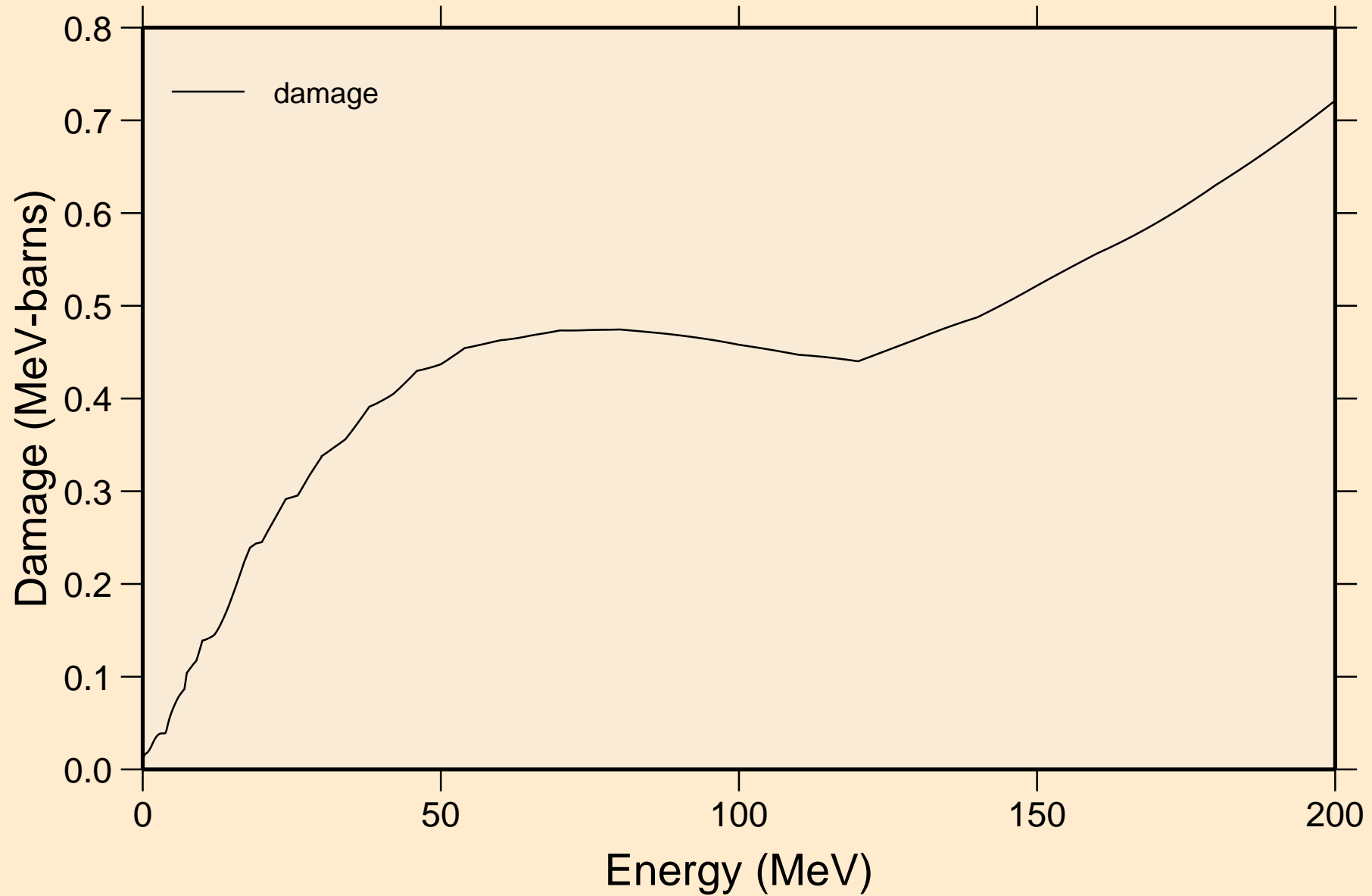
# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

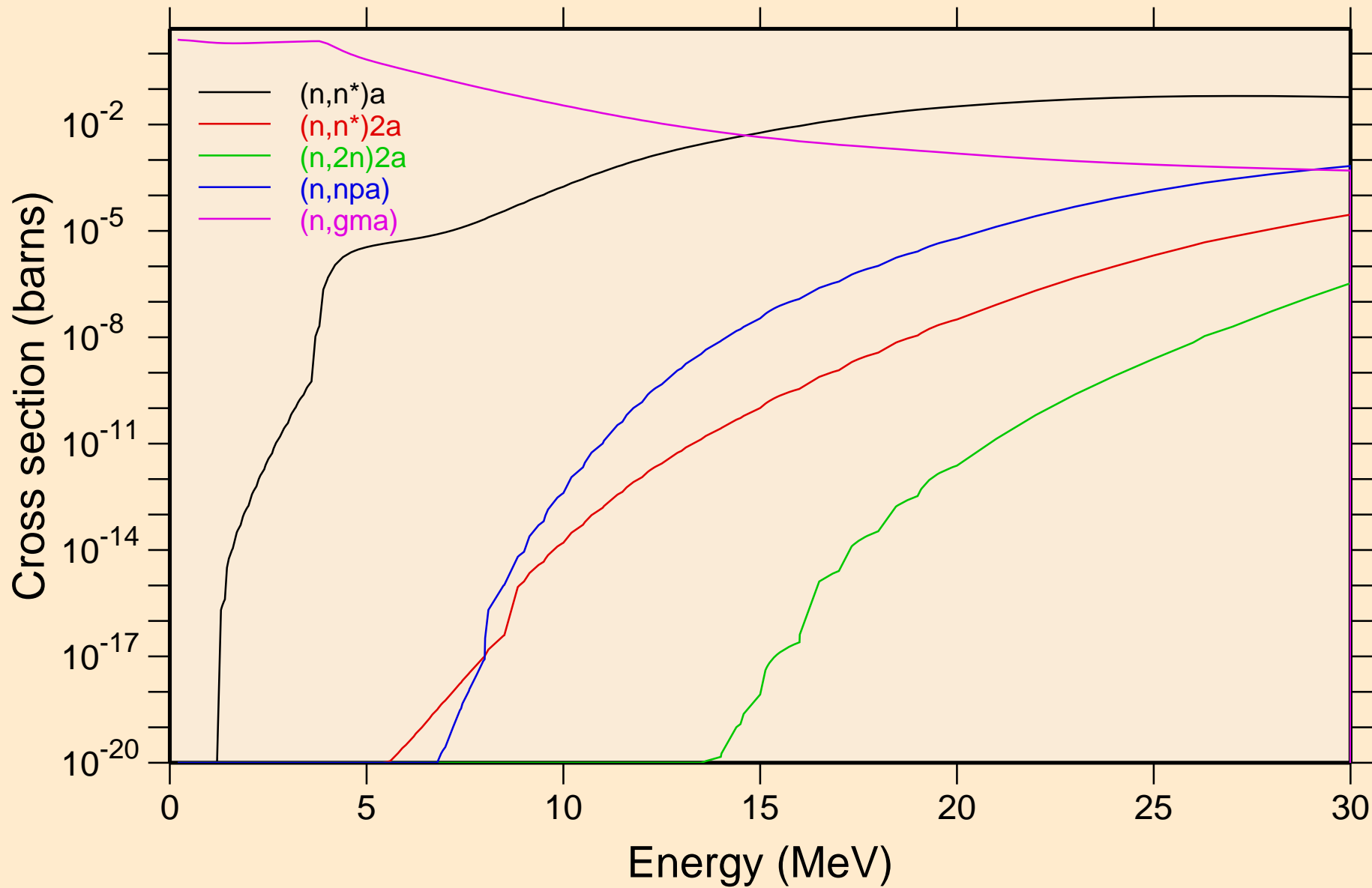


# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

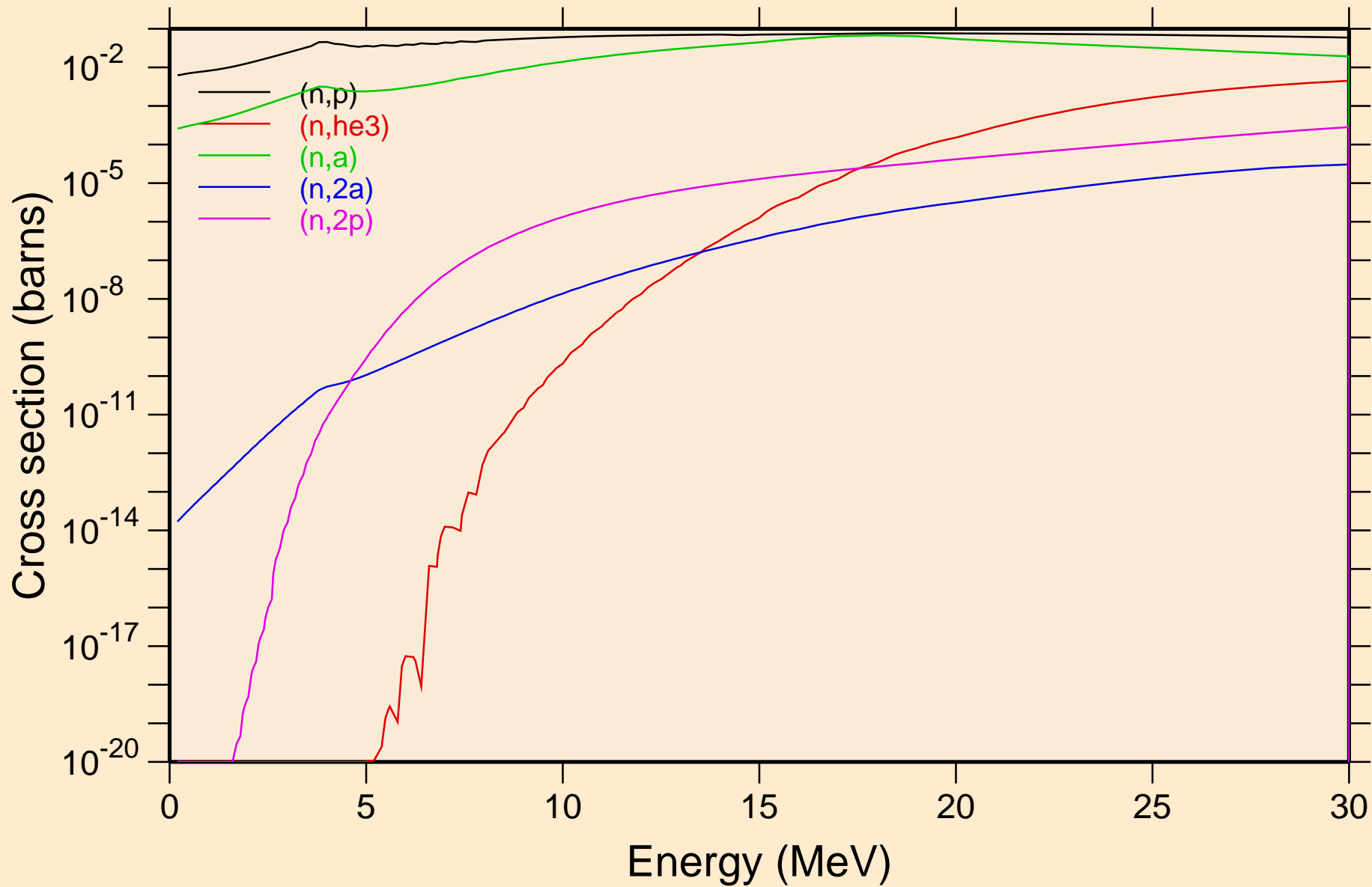
## Damage



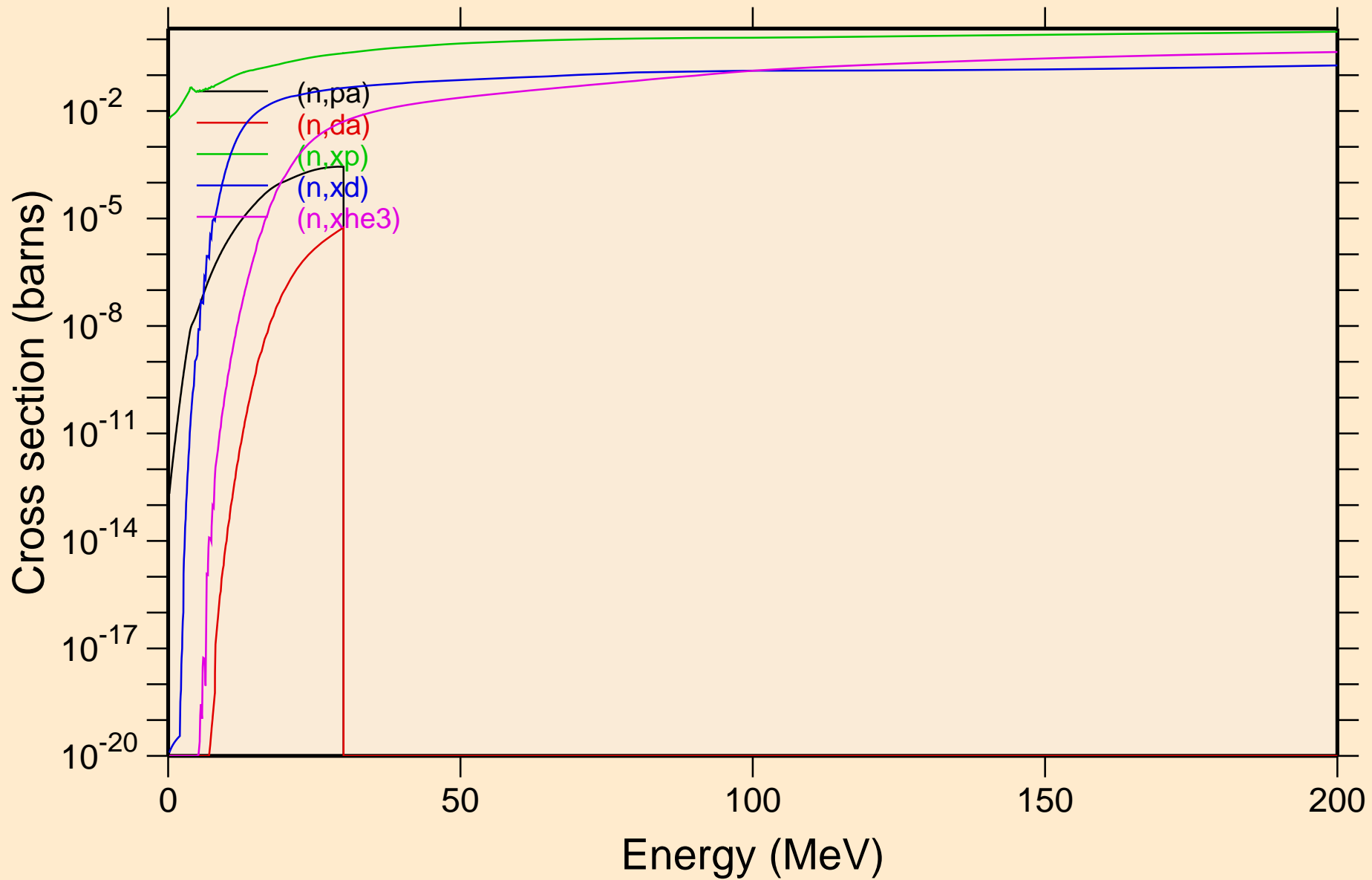
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



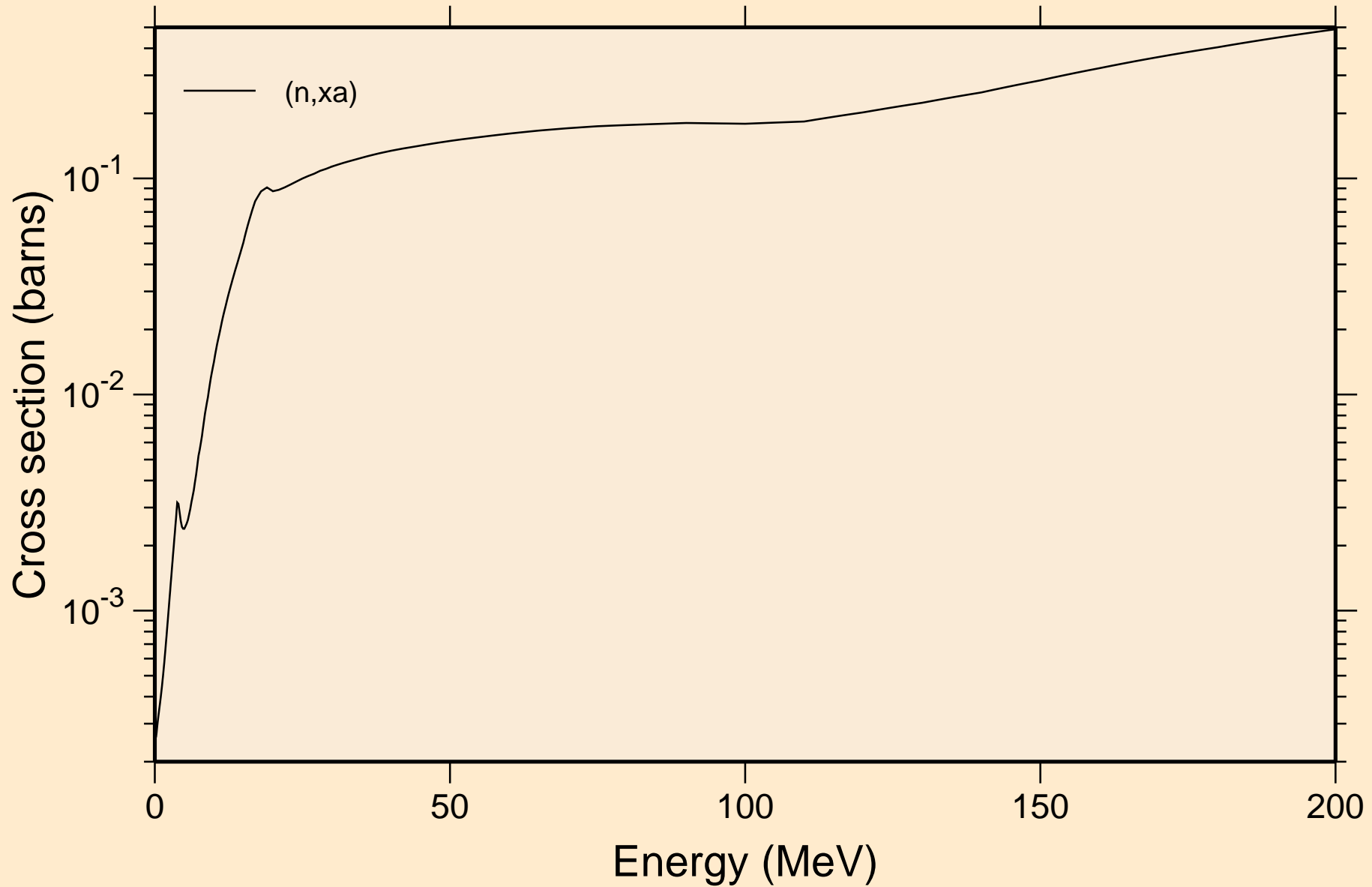
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



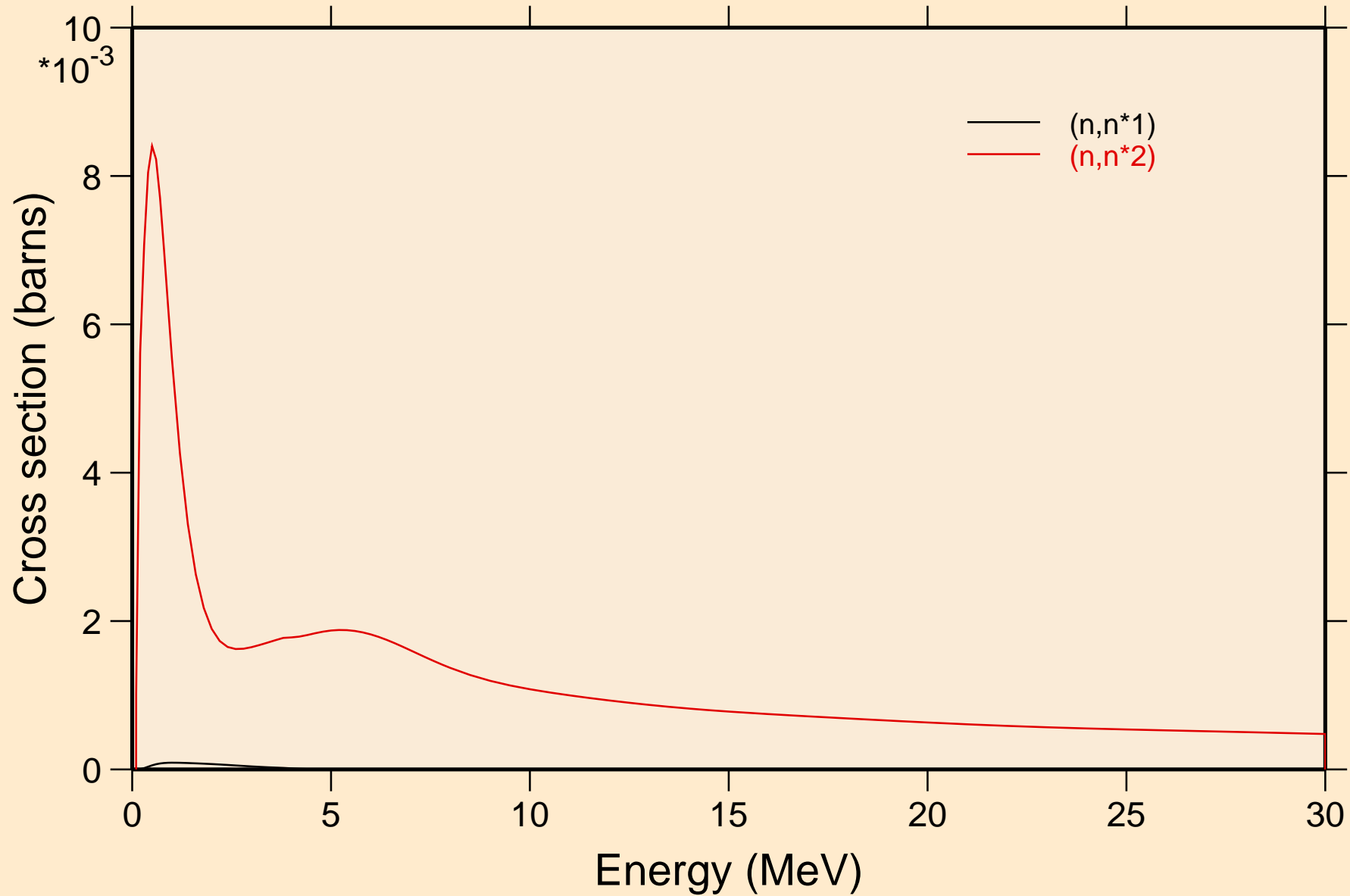
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



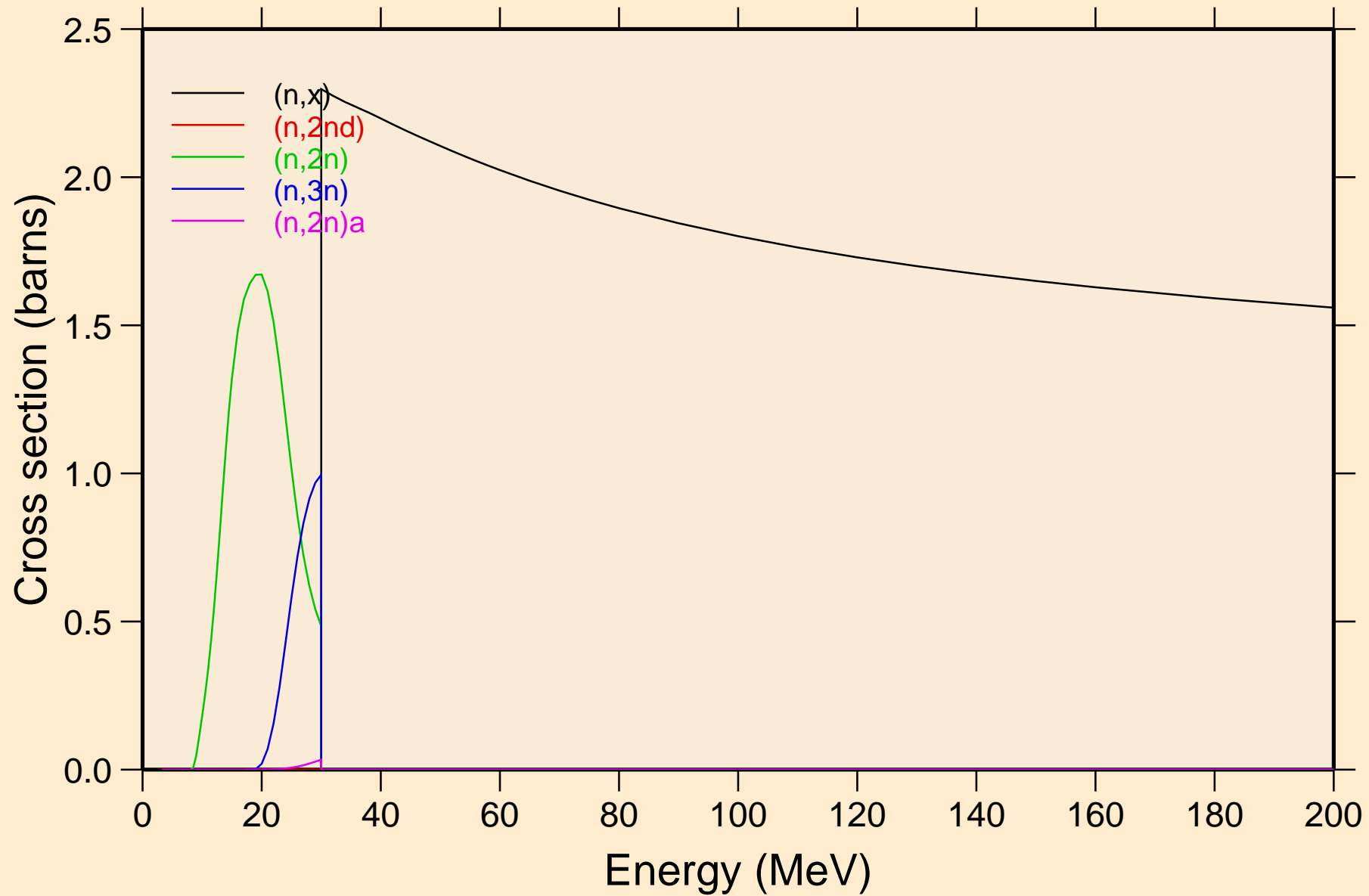
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



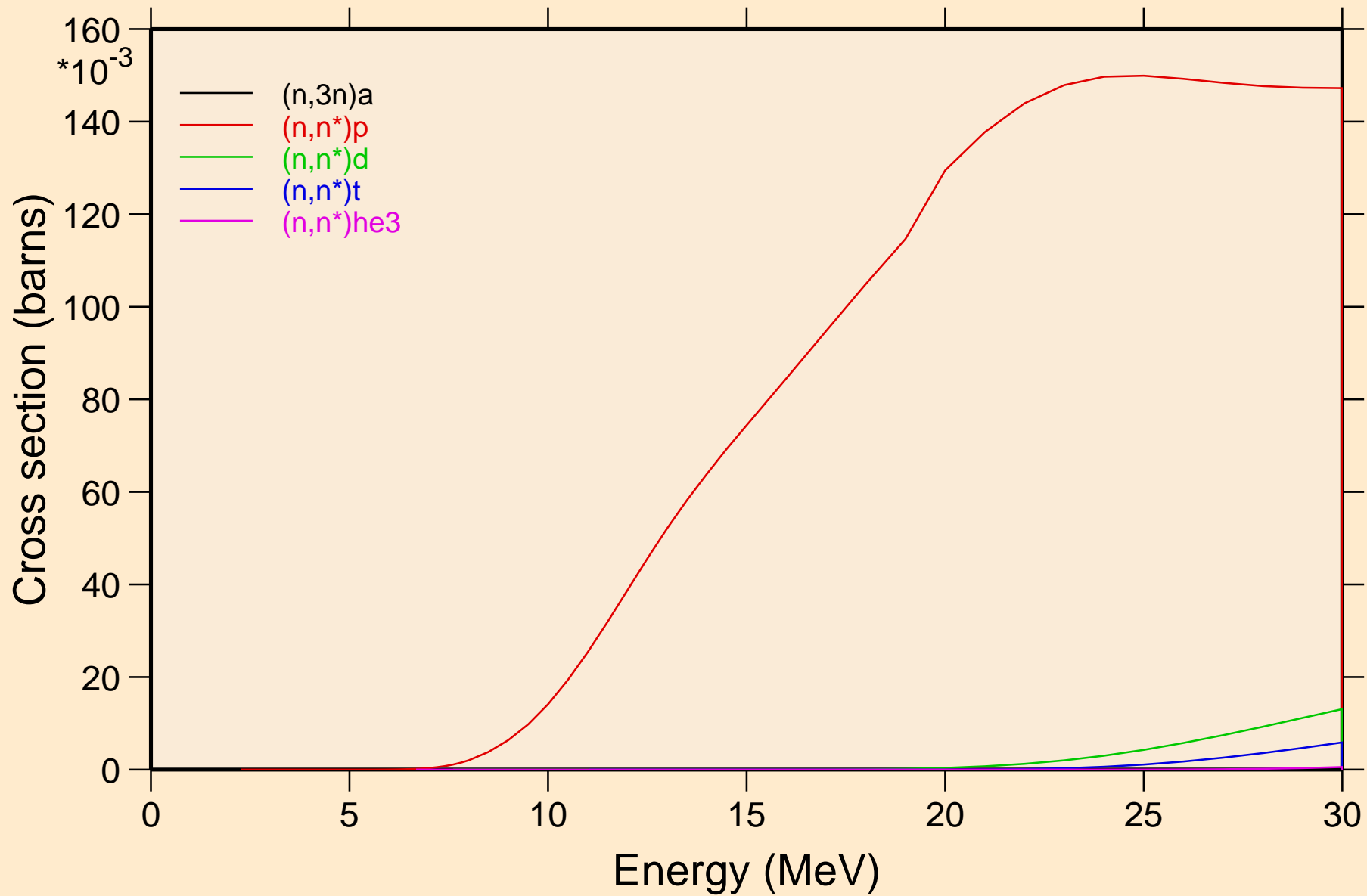
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



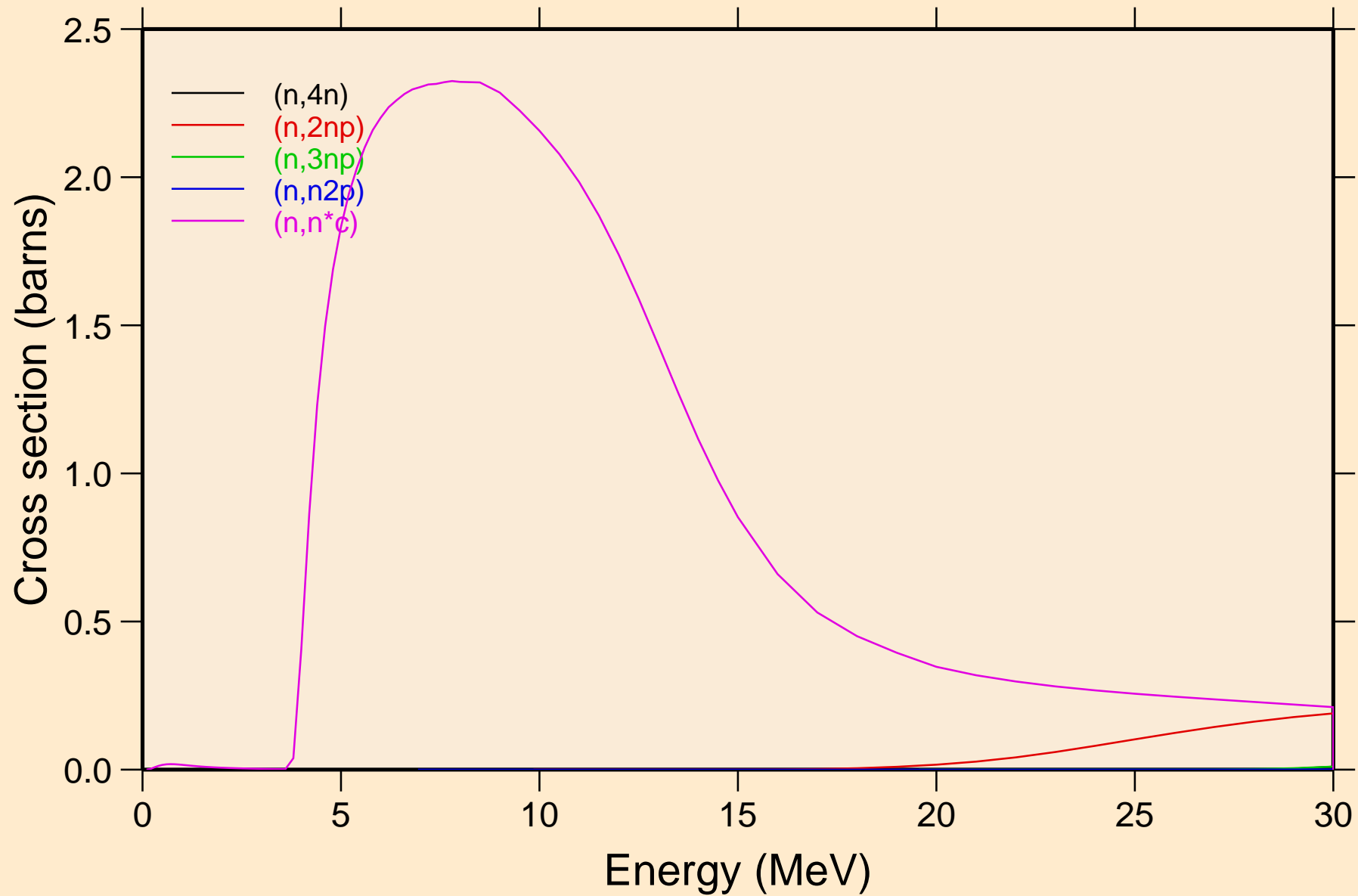


# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions

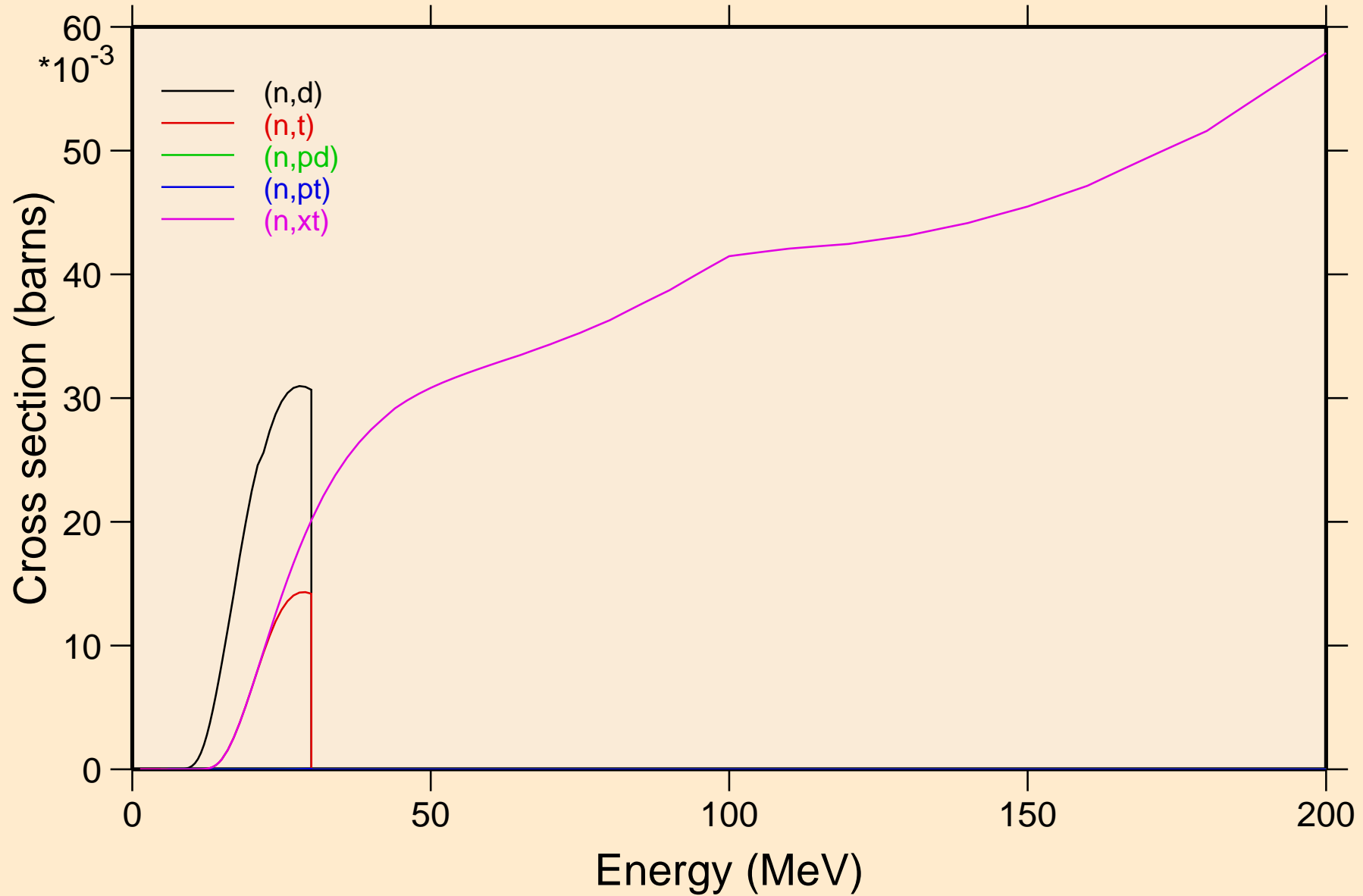


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

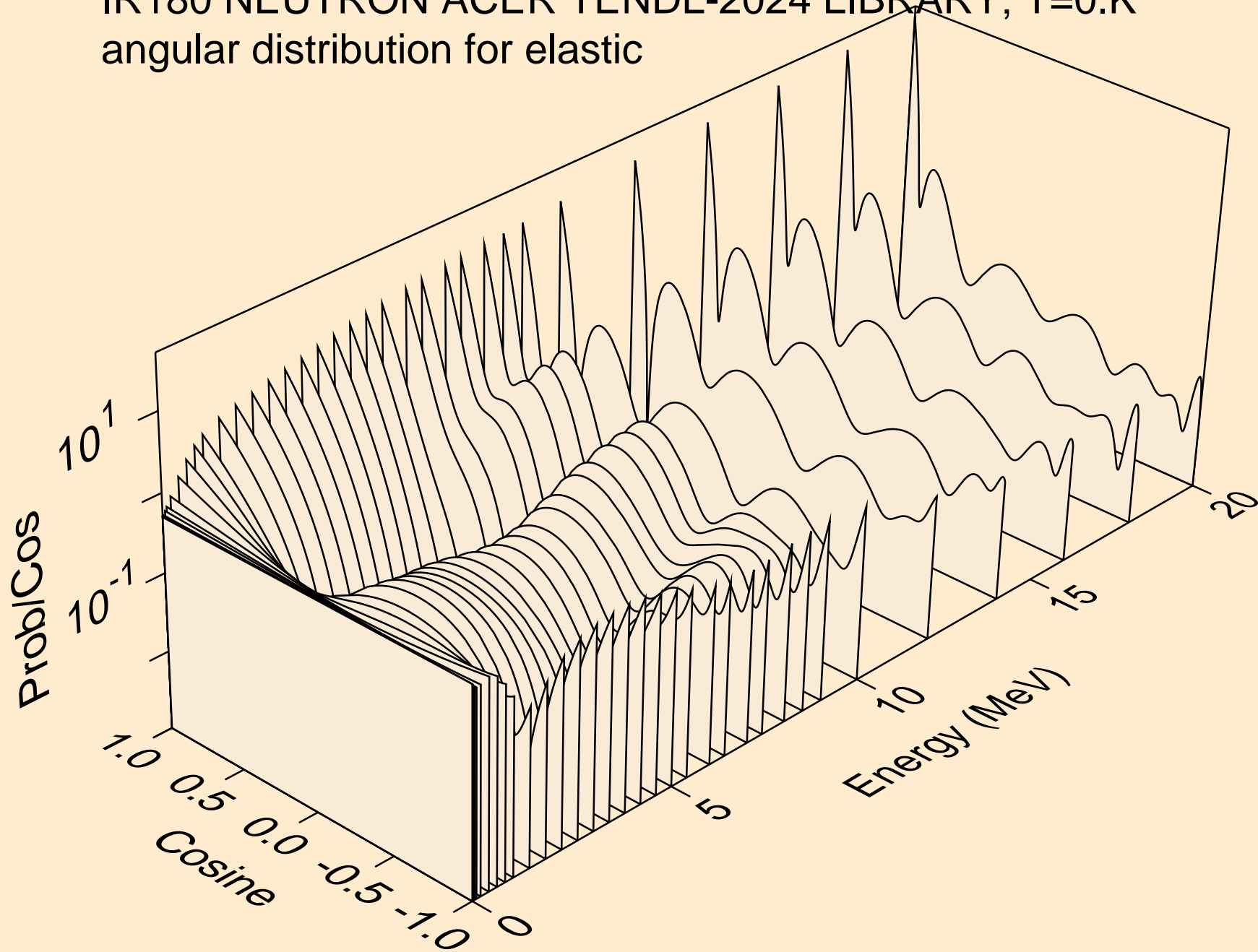


# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

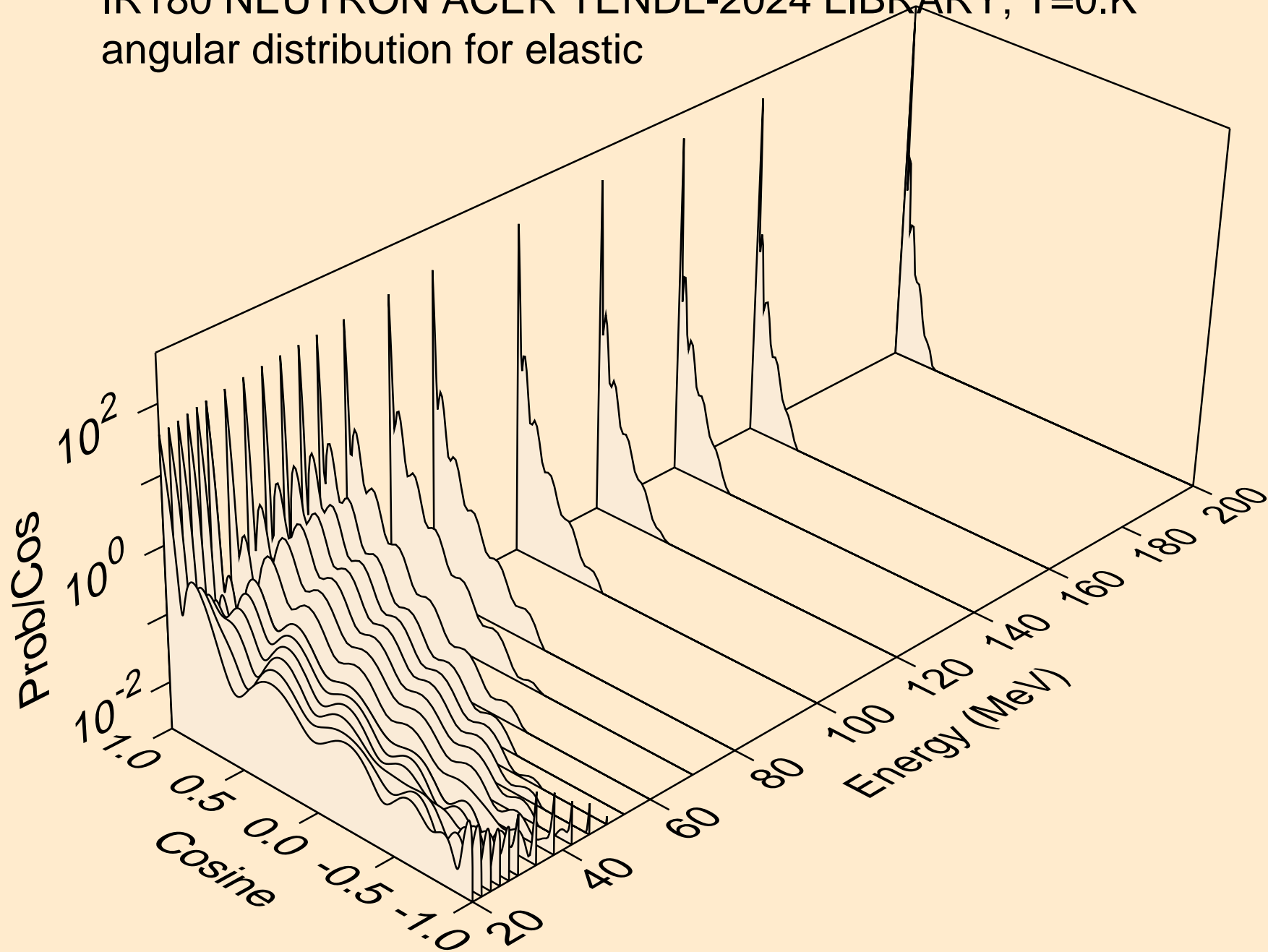
## Threshold reactions



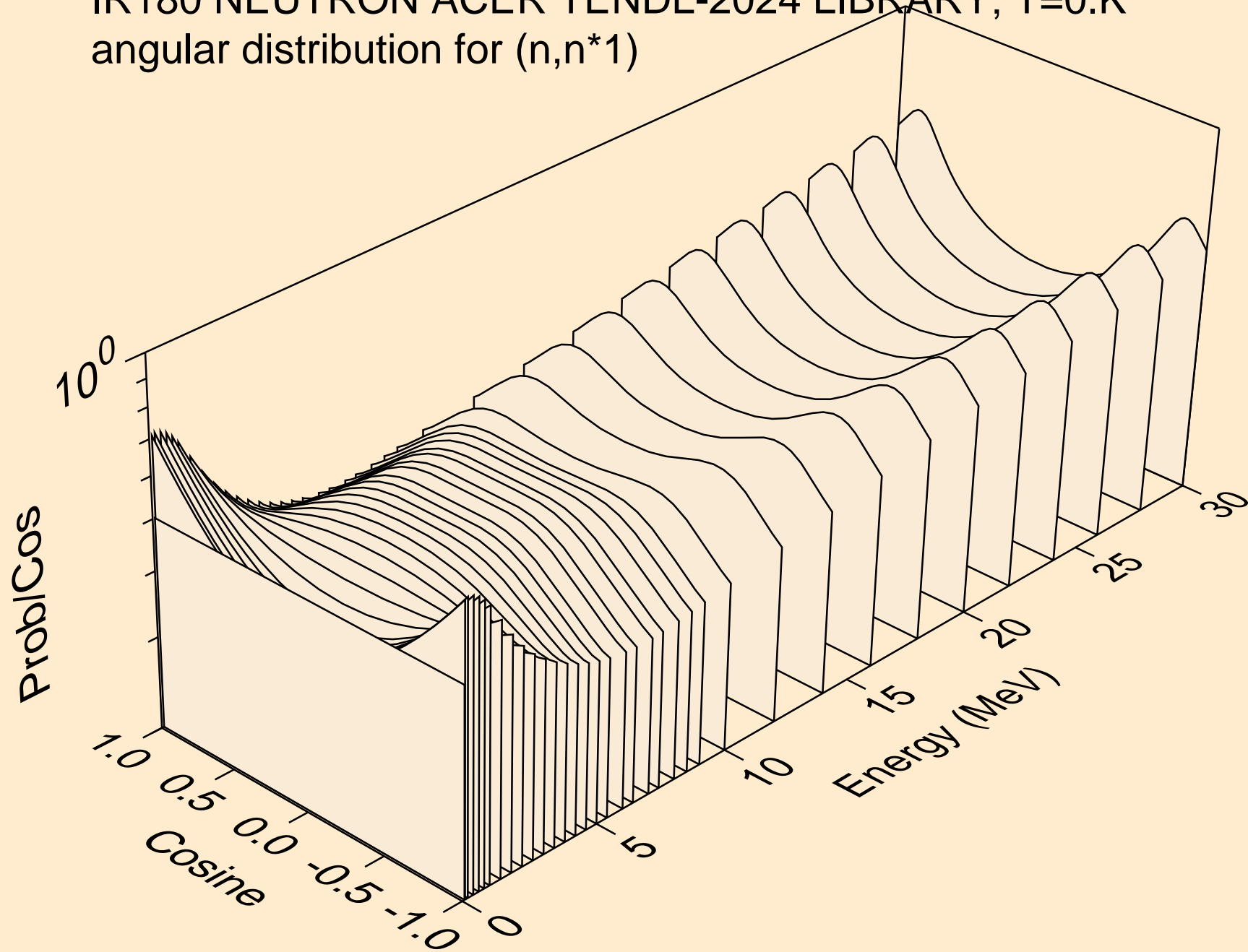
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



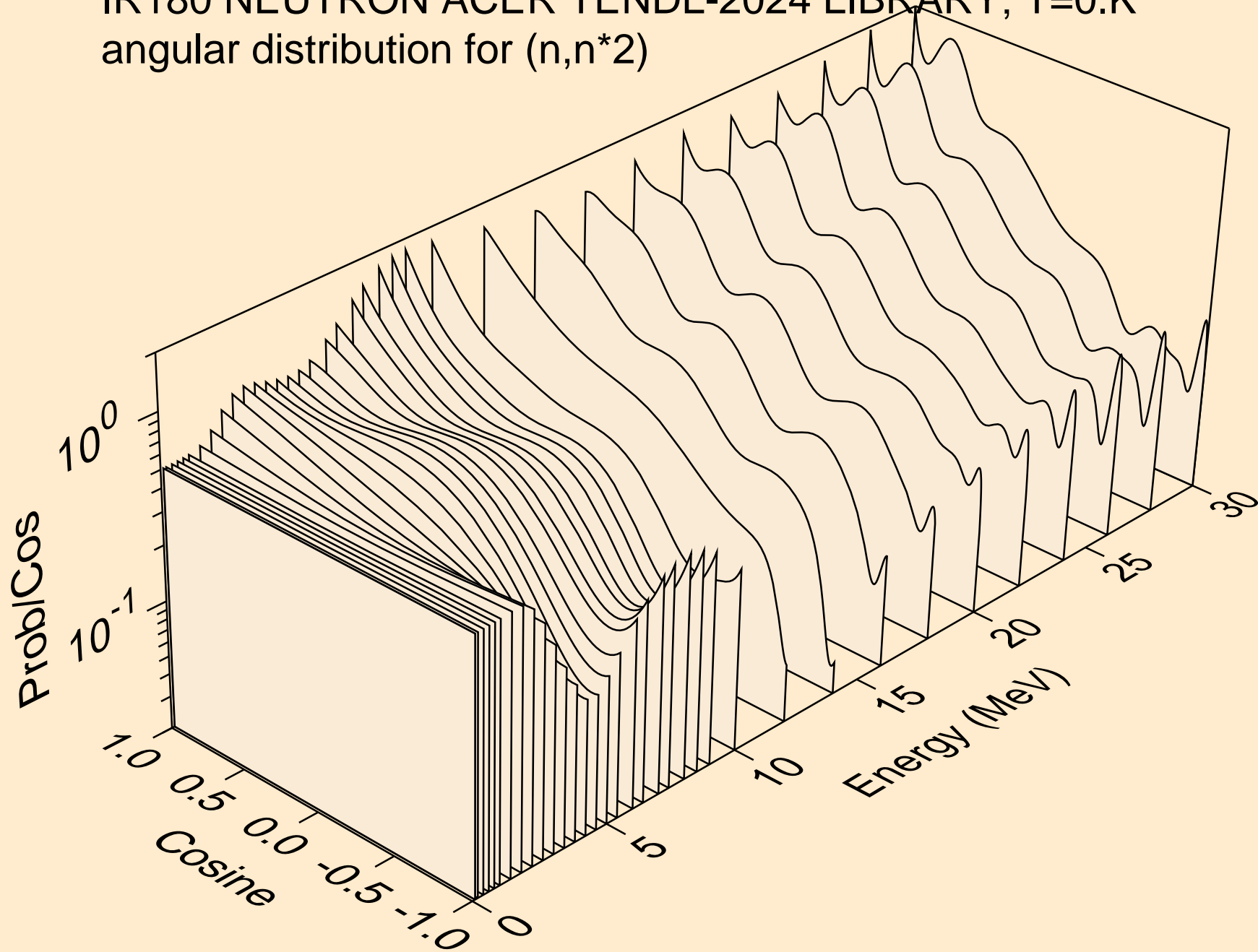
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



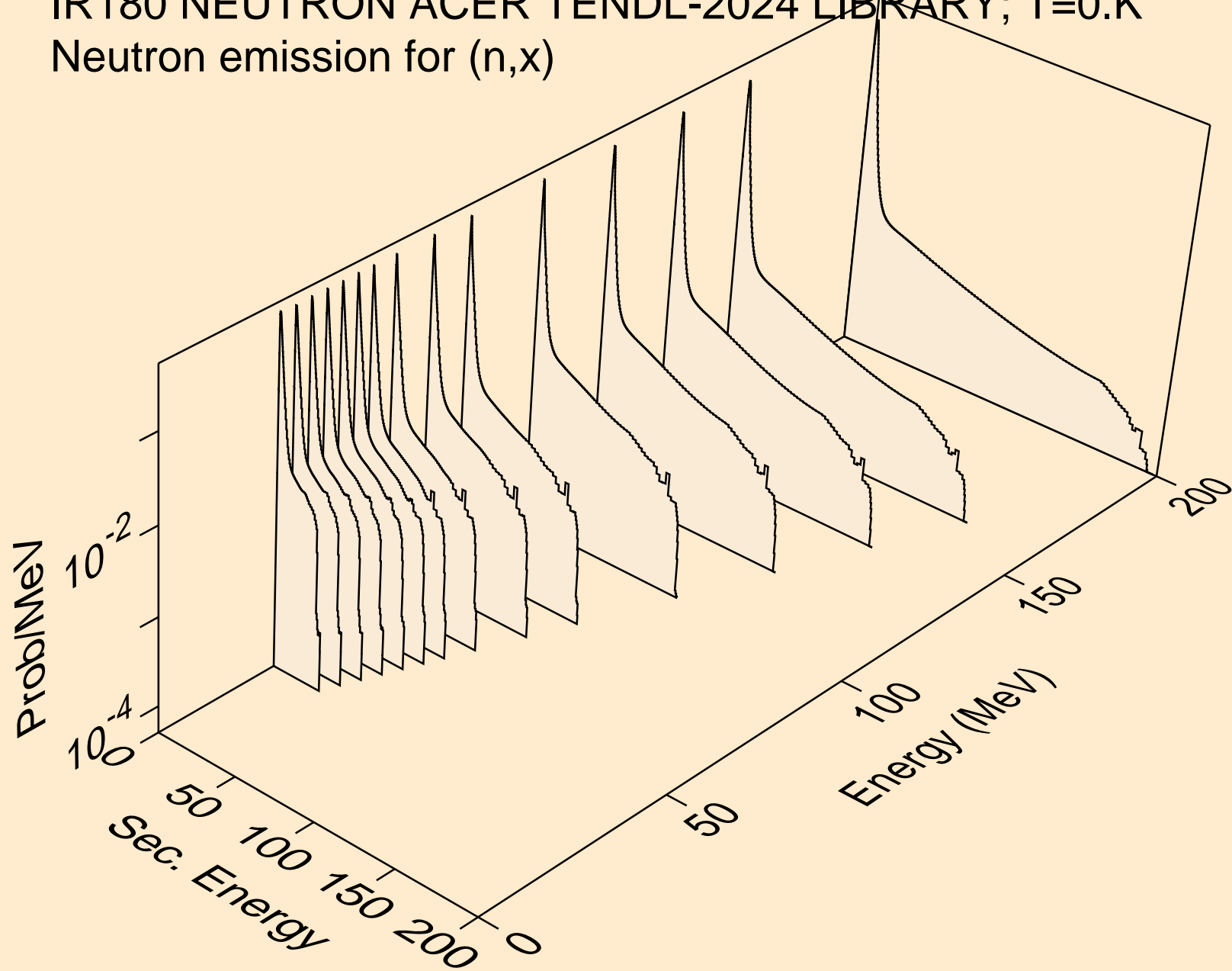
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

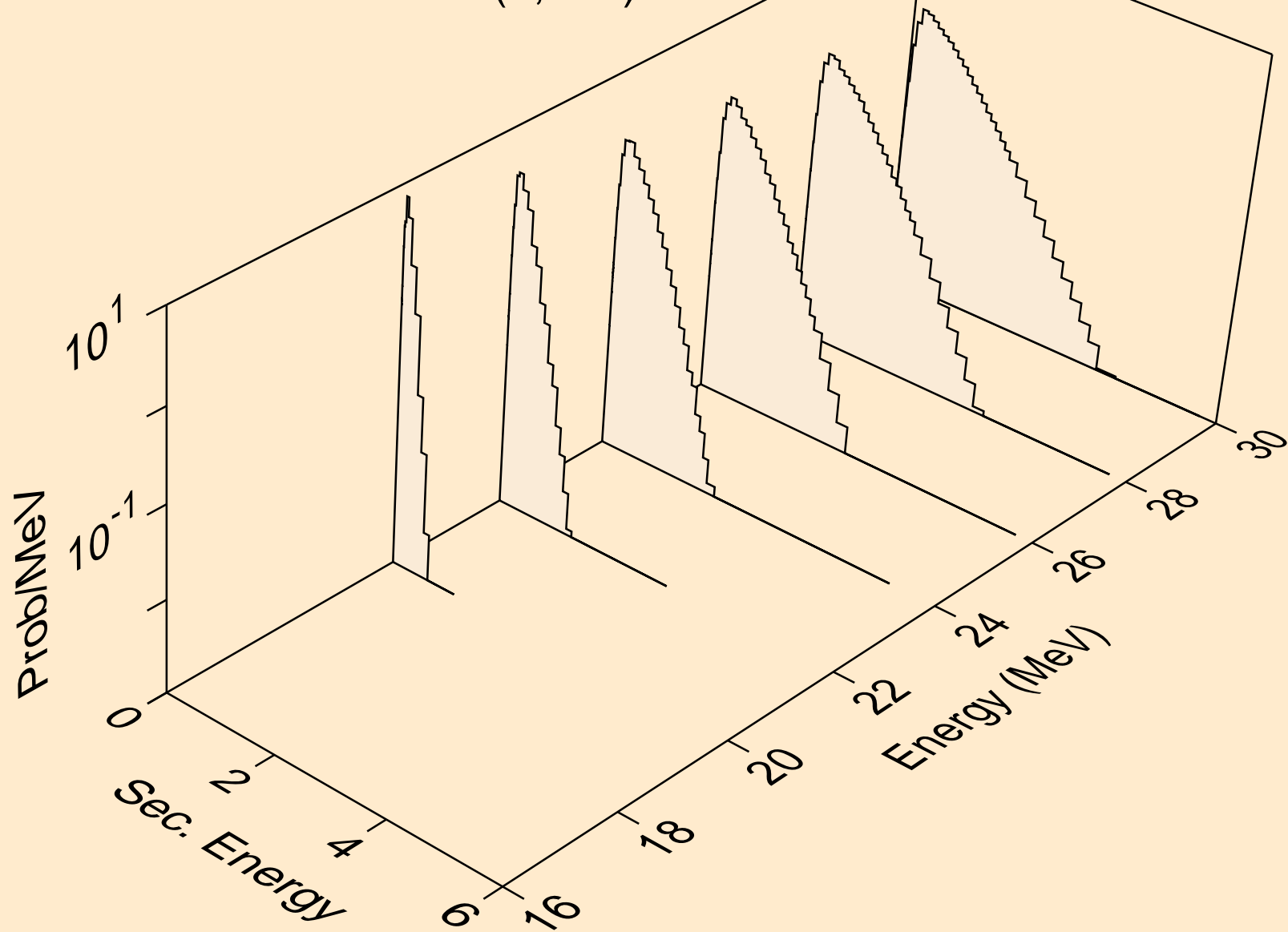


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)

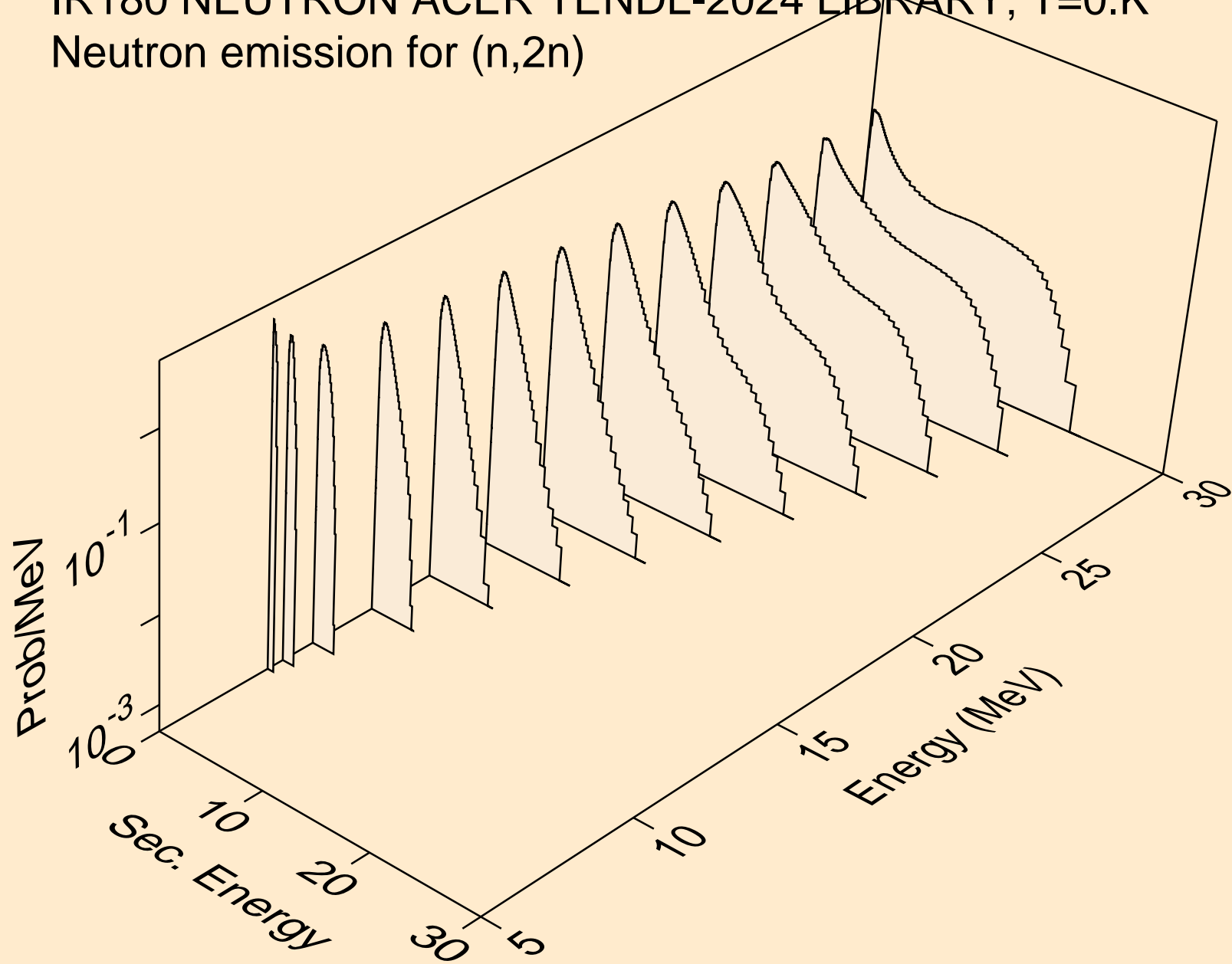




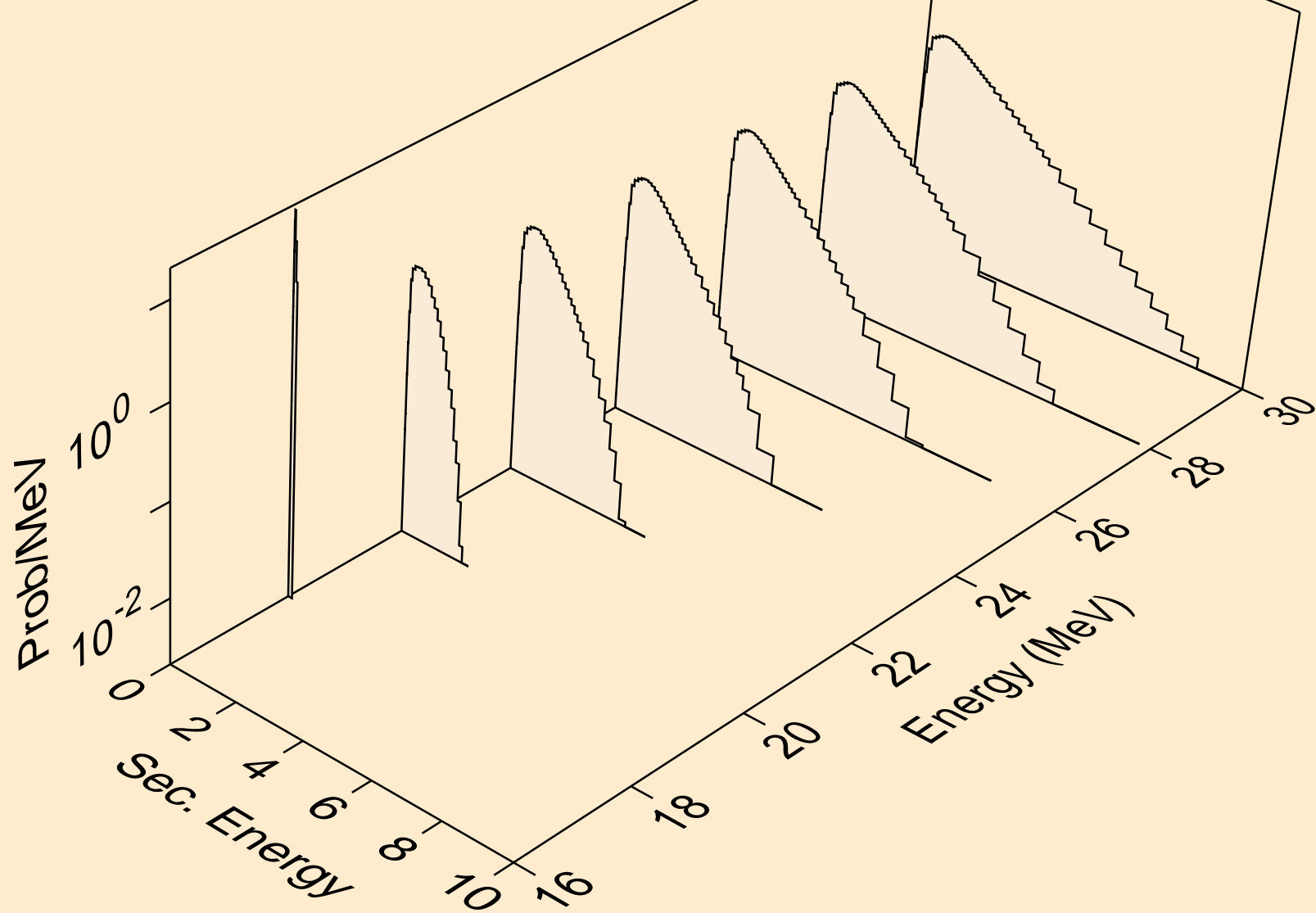
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



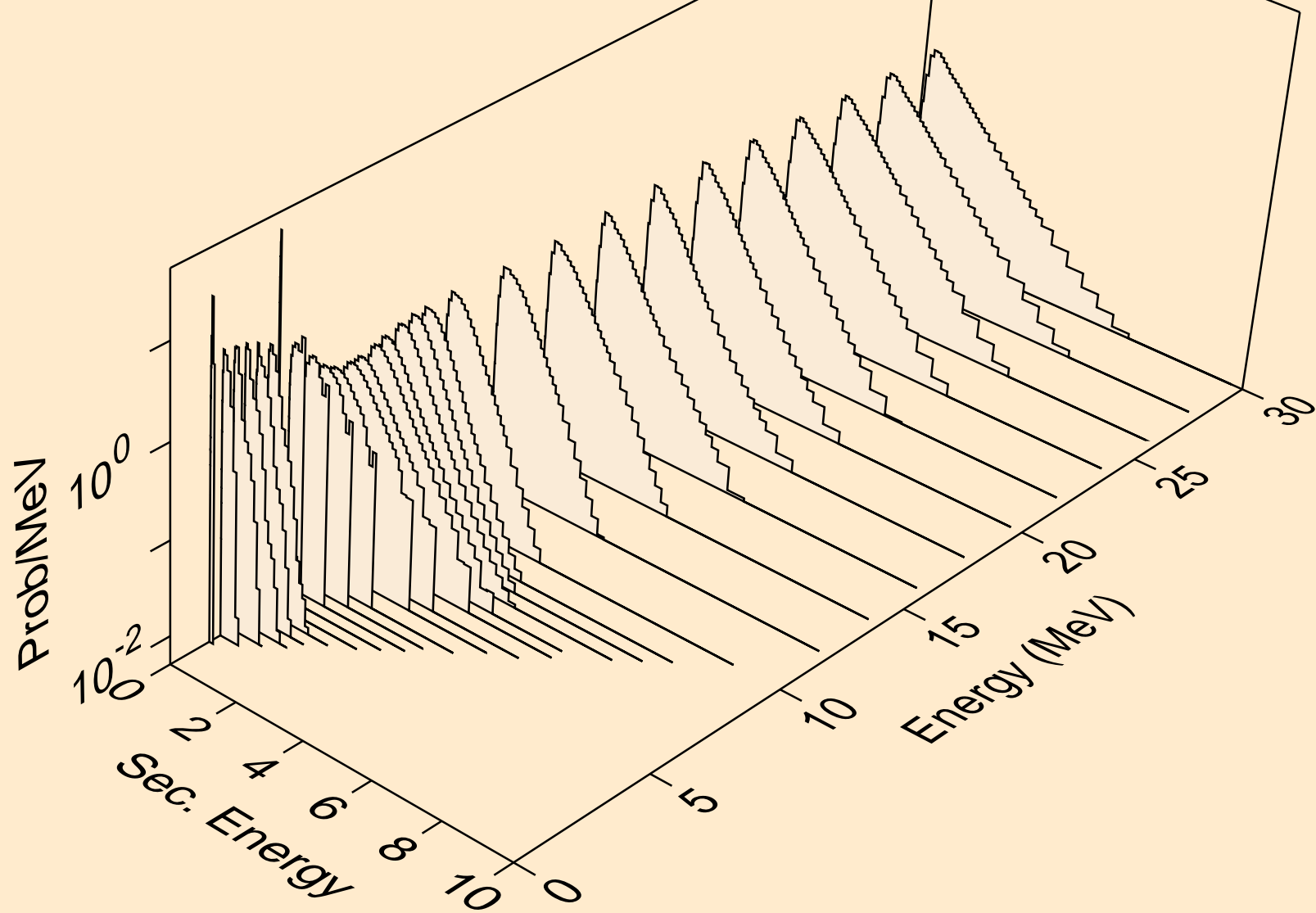
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



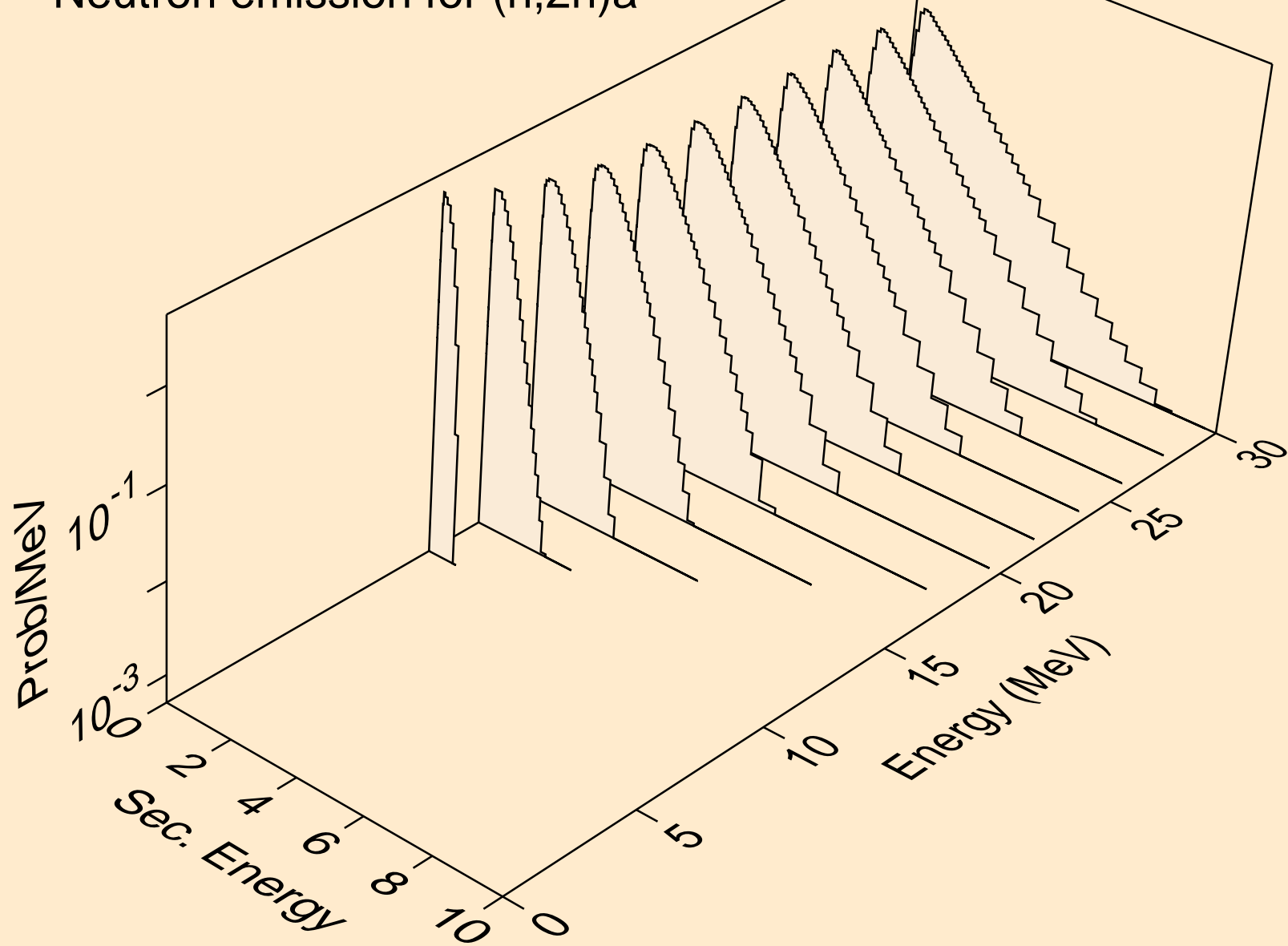
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



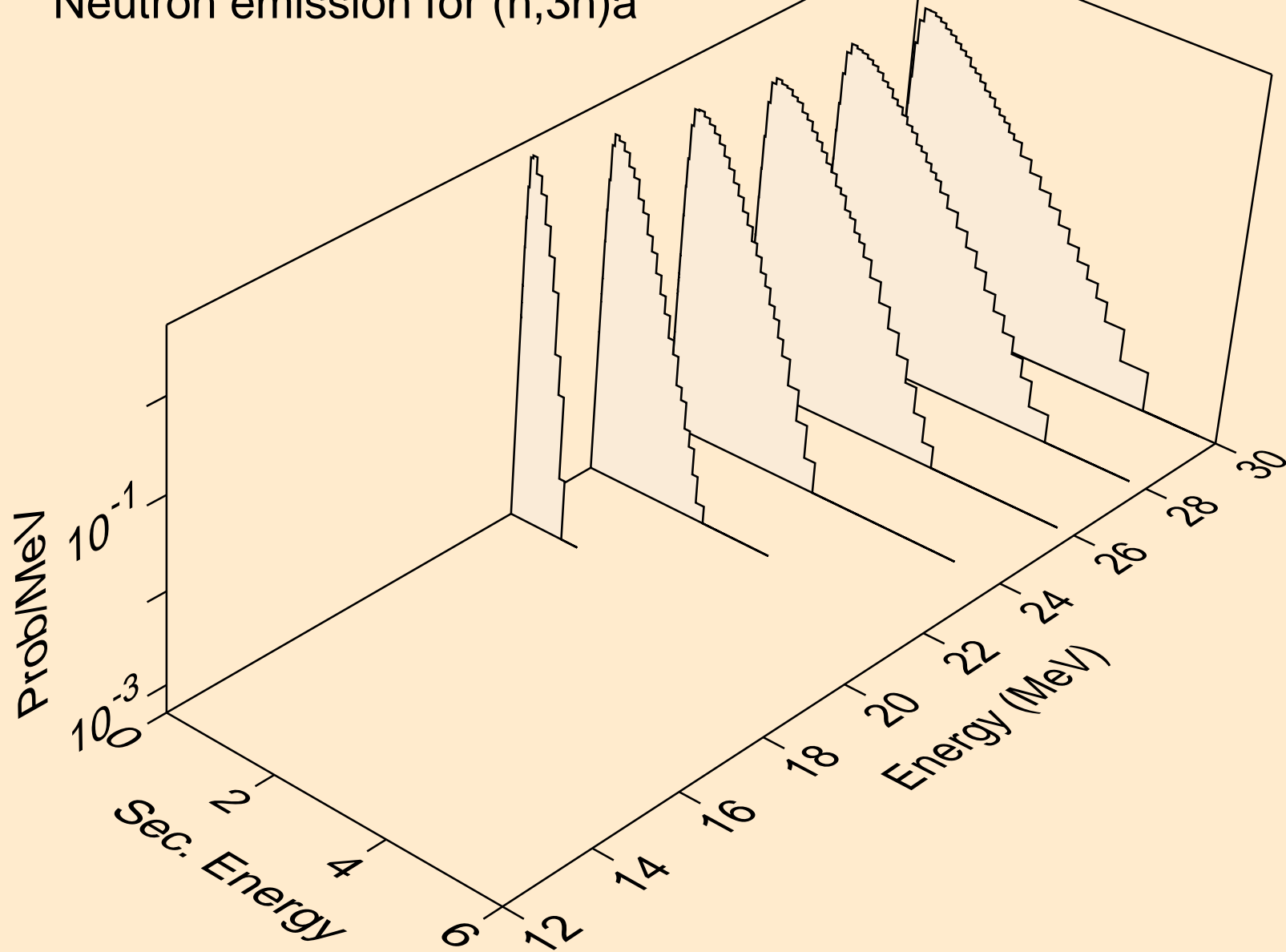
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



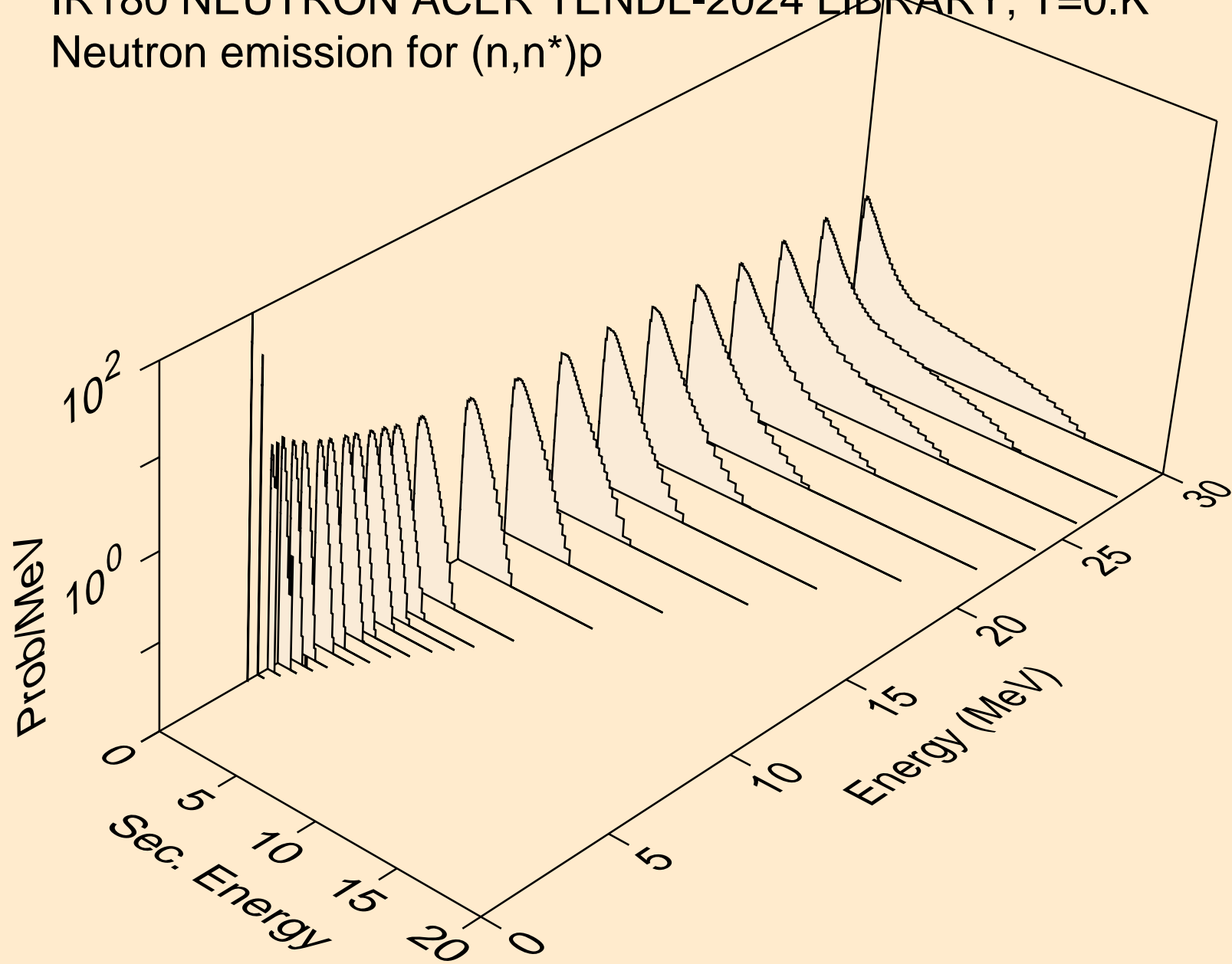
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



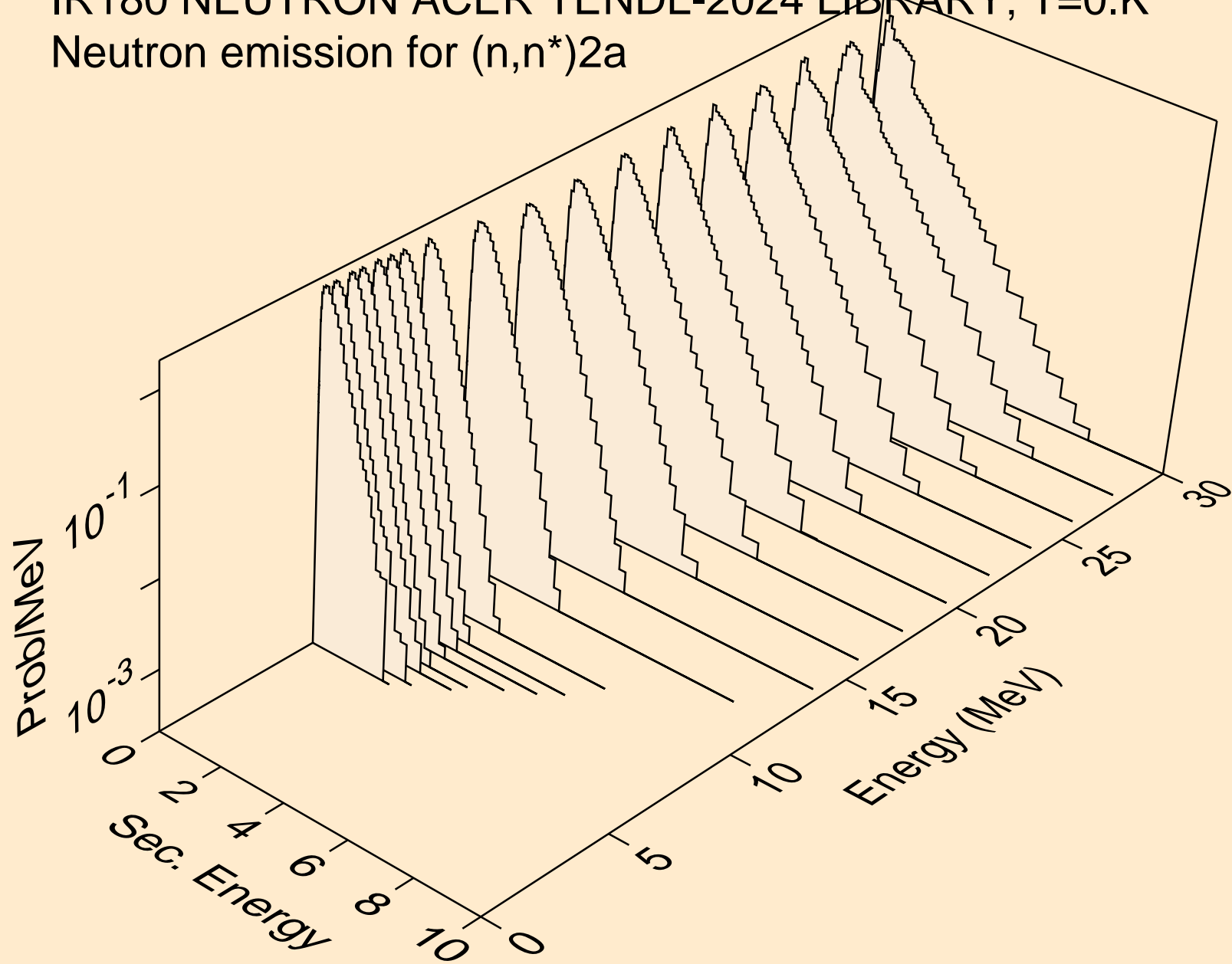
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p

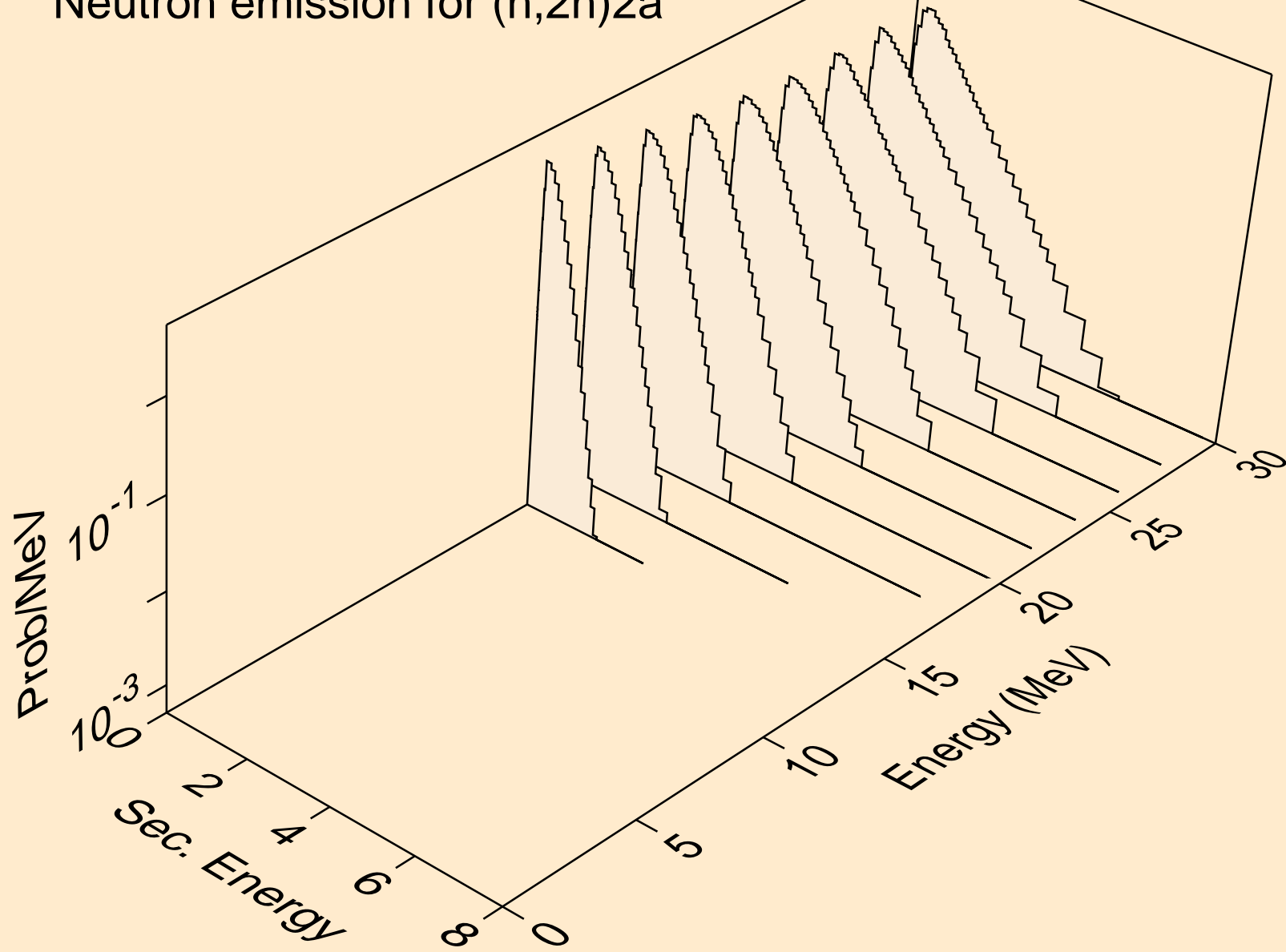


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a

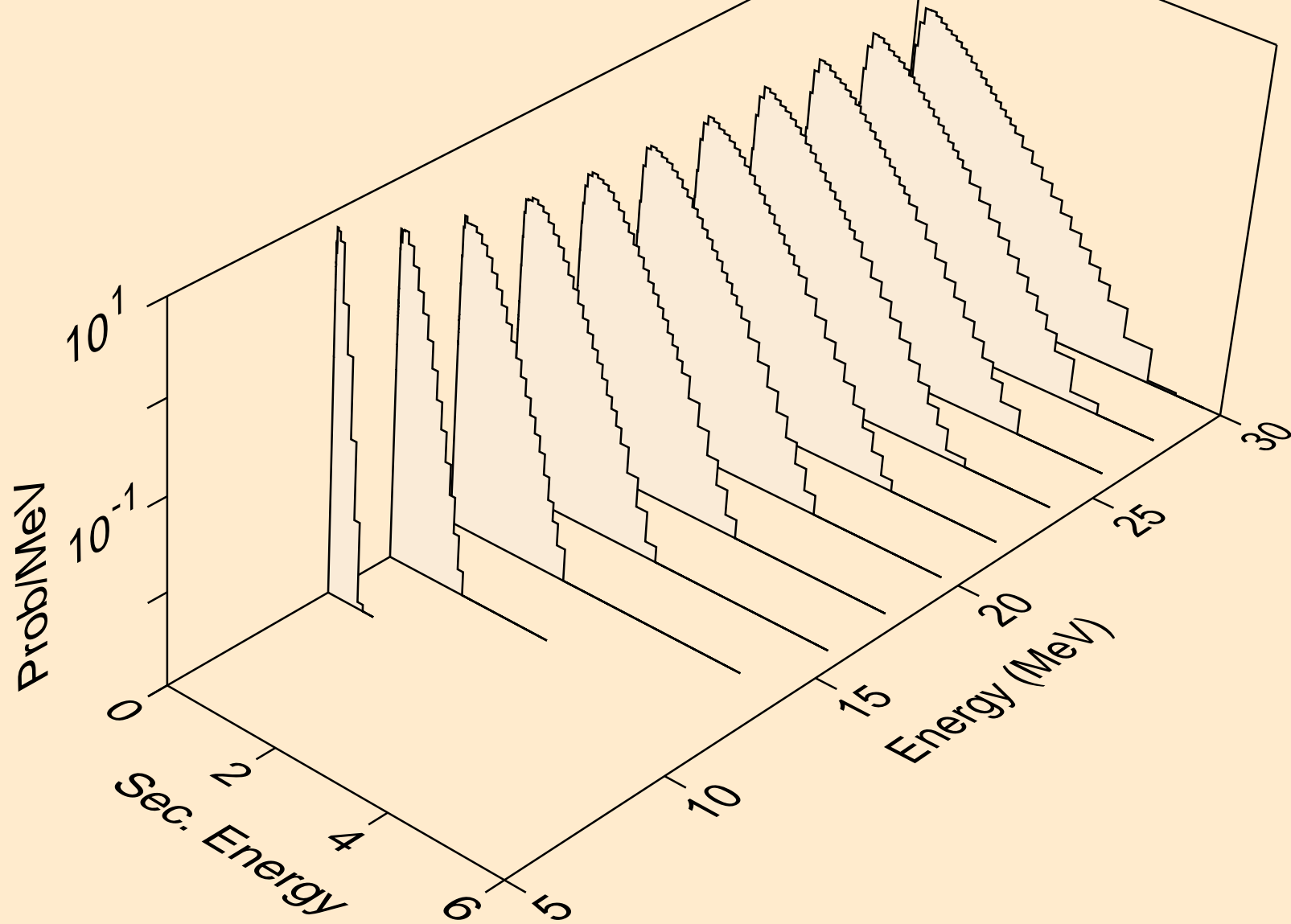




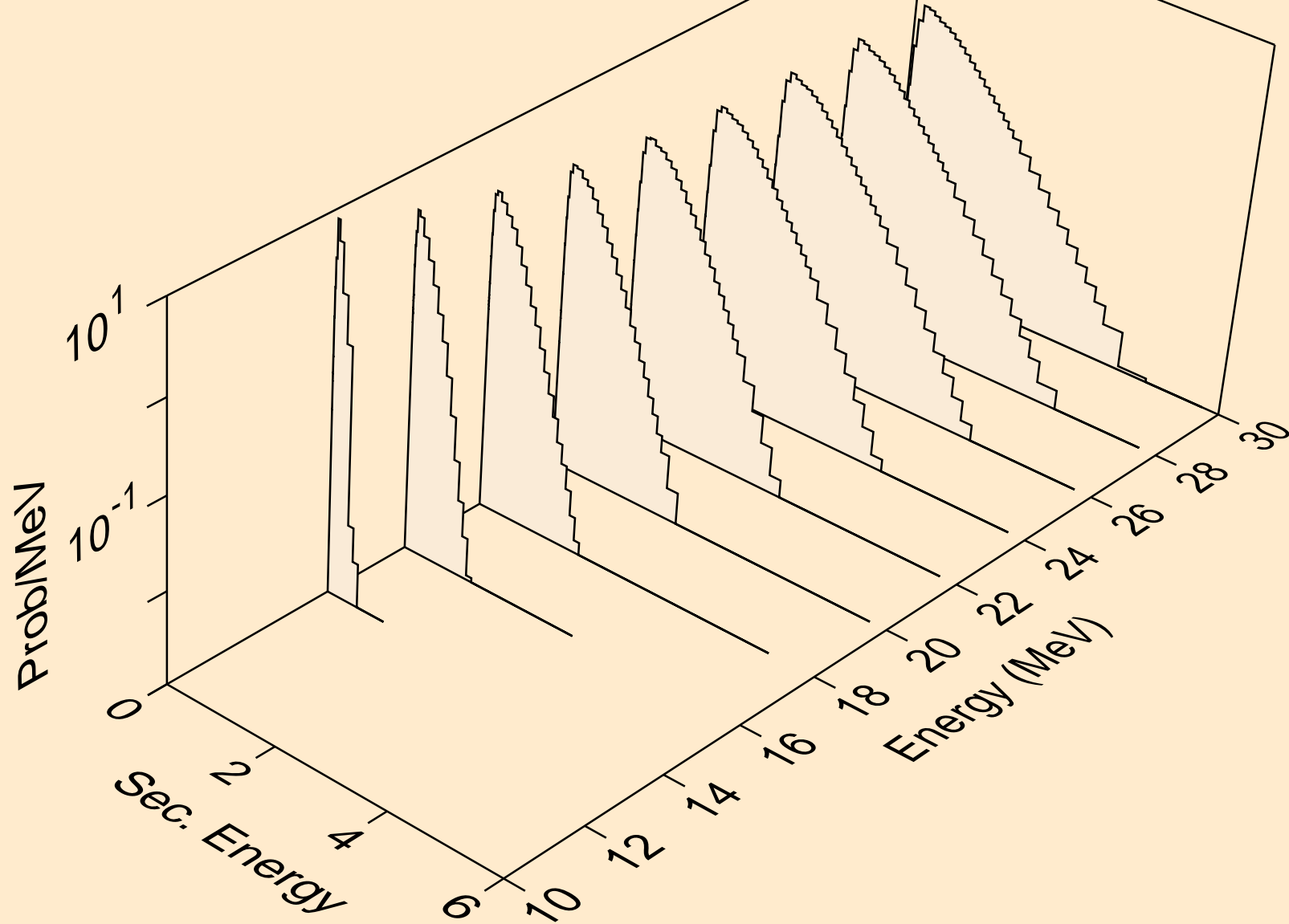
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a



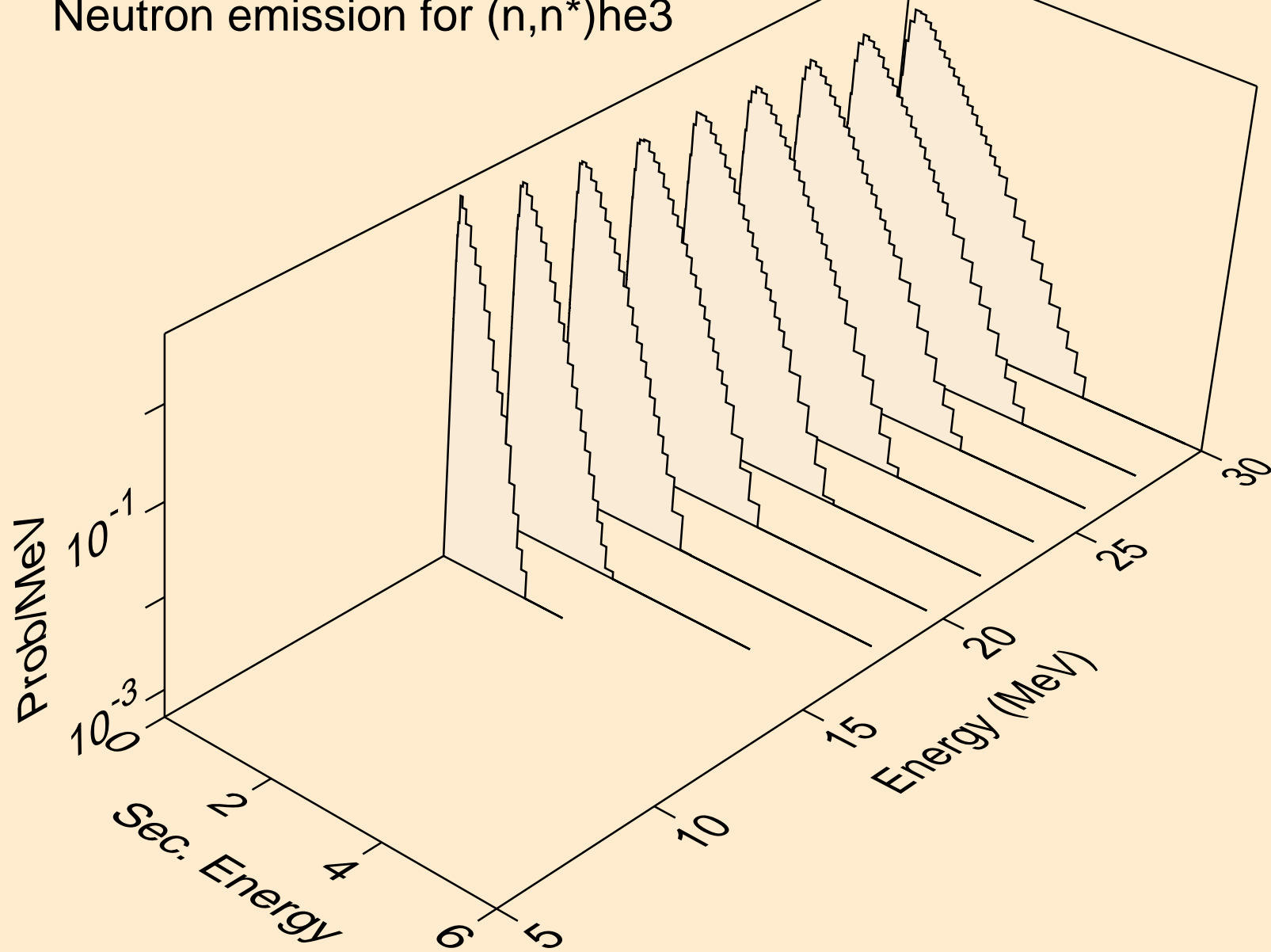
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



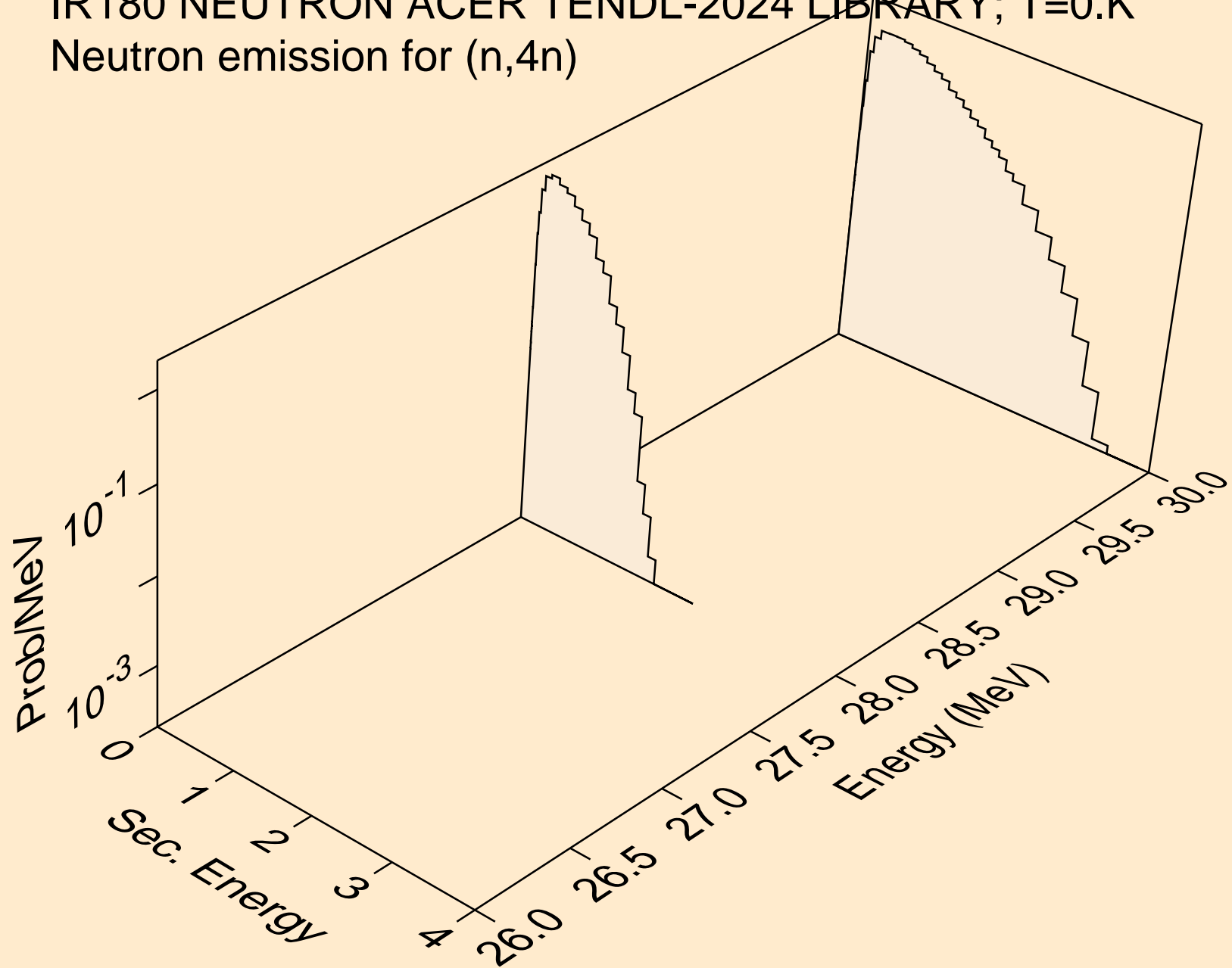
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



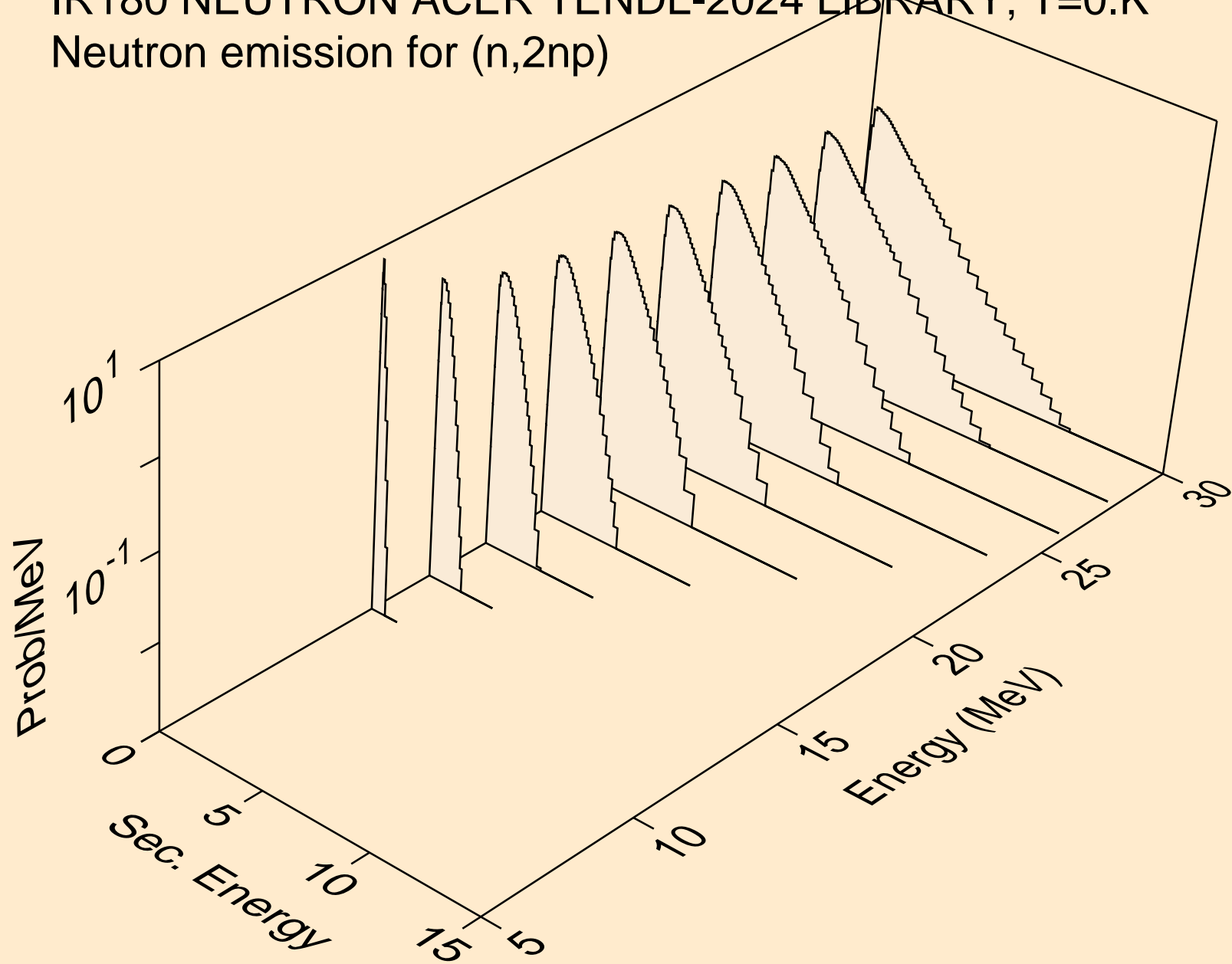
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



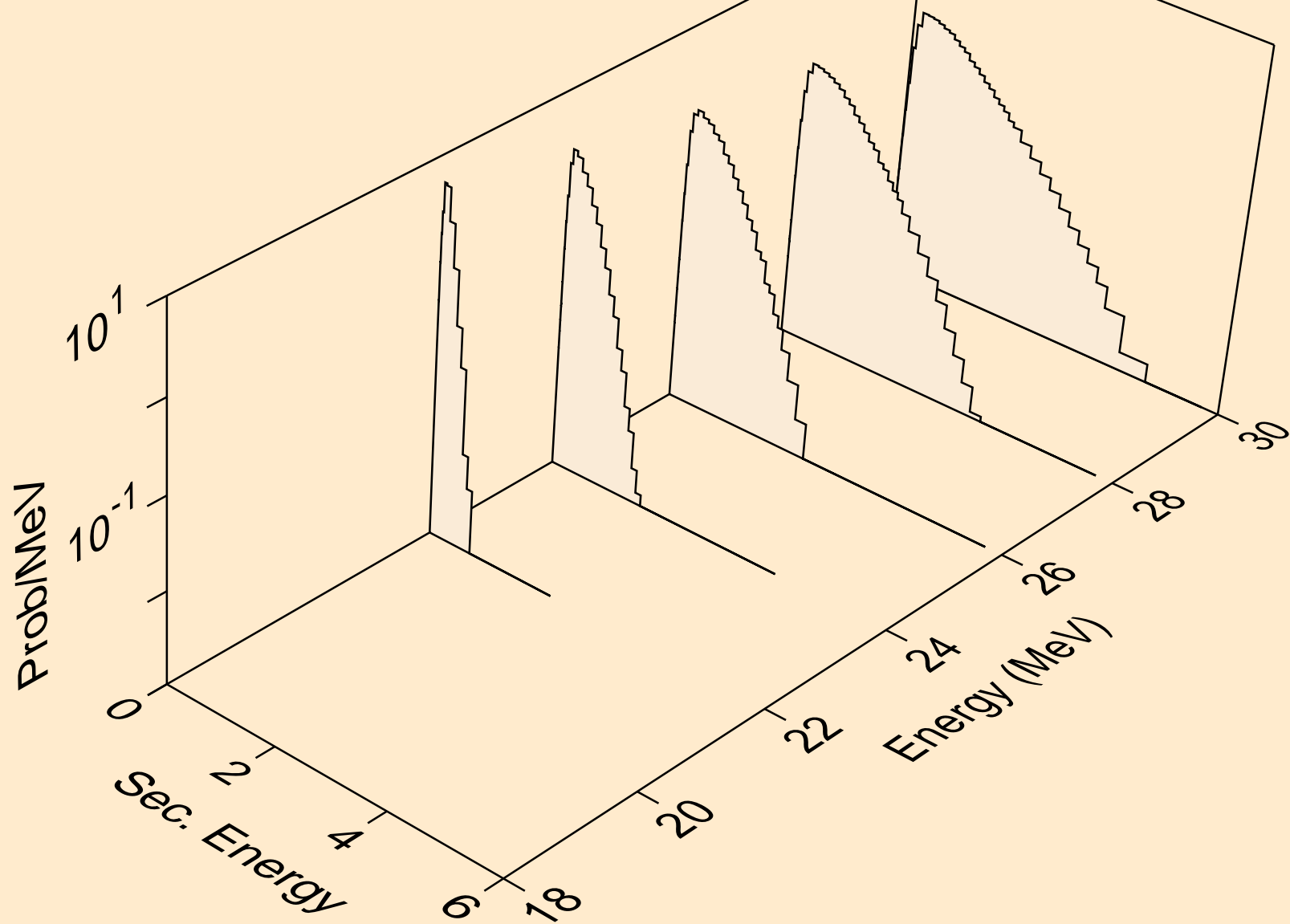
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



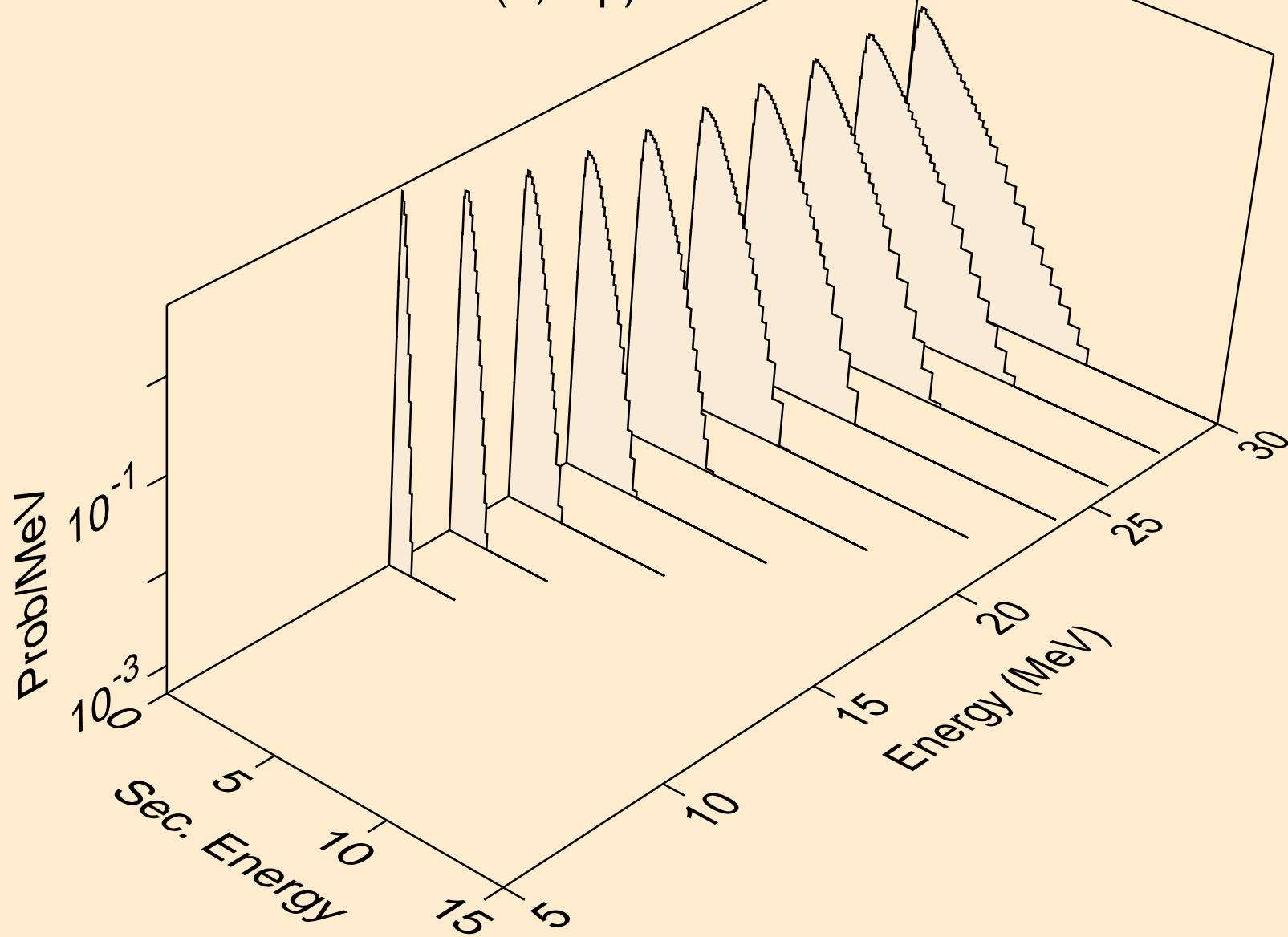
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3np)

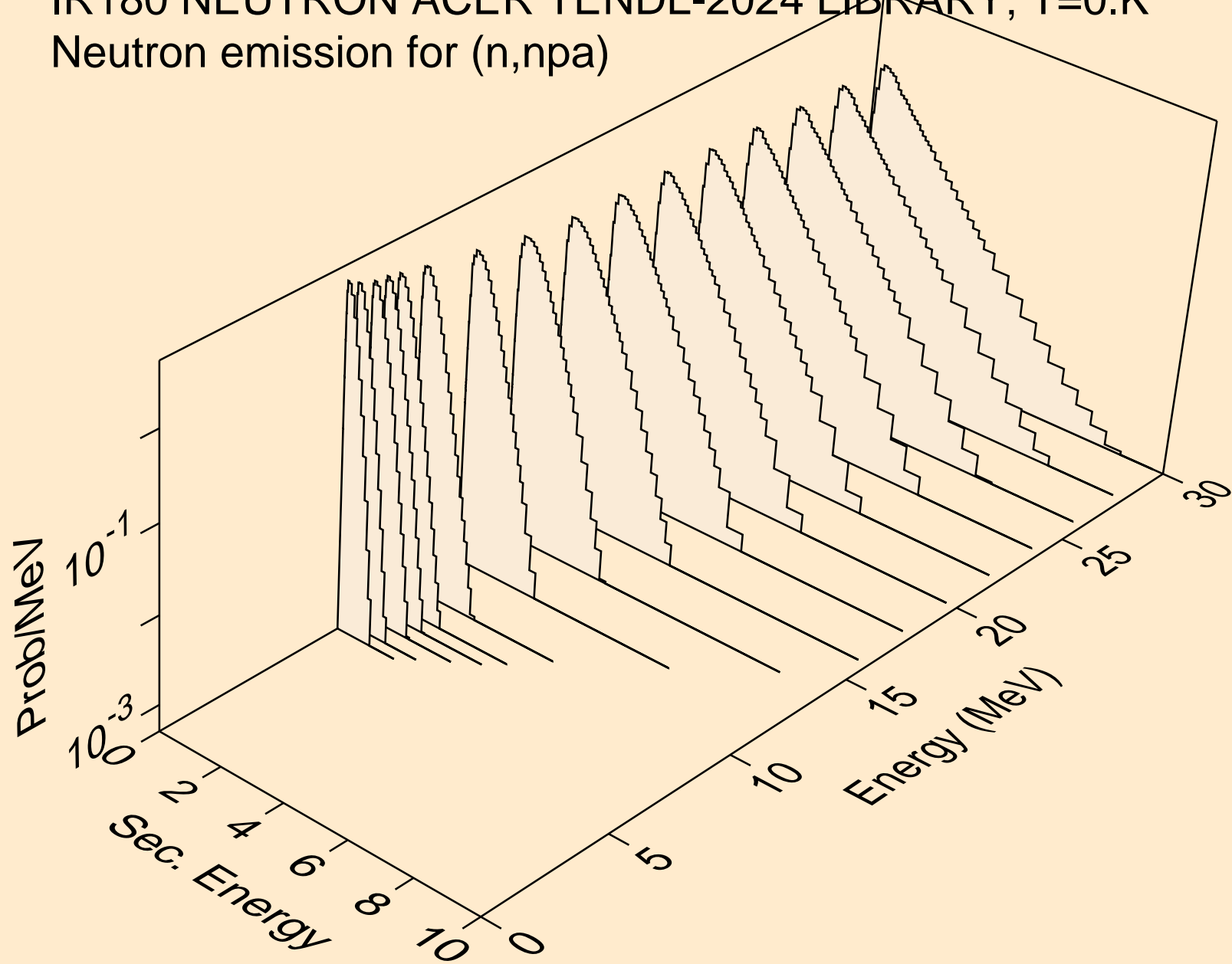


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

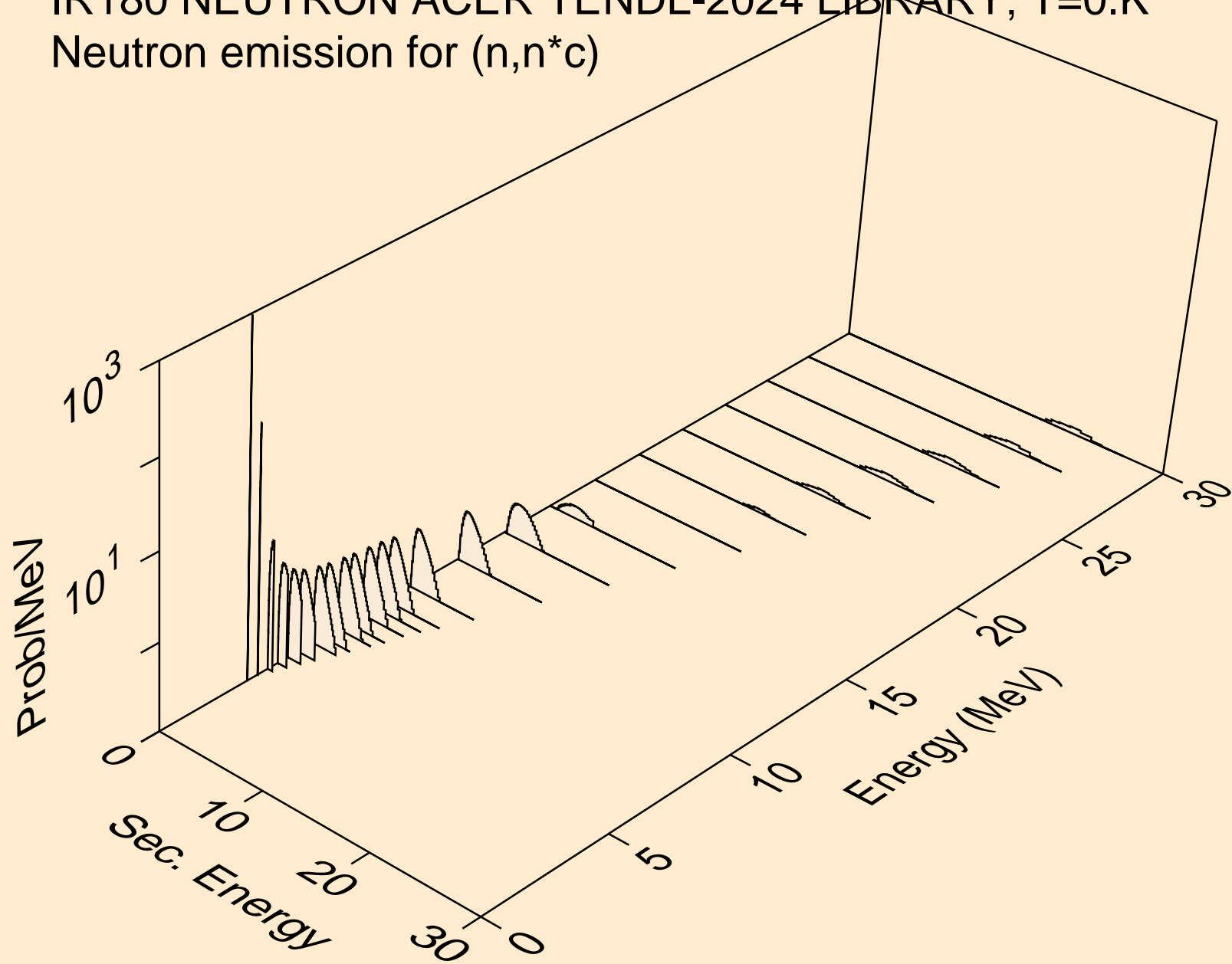




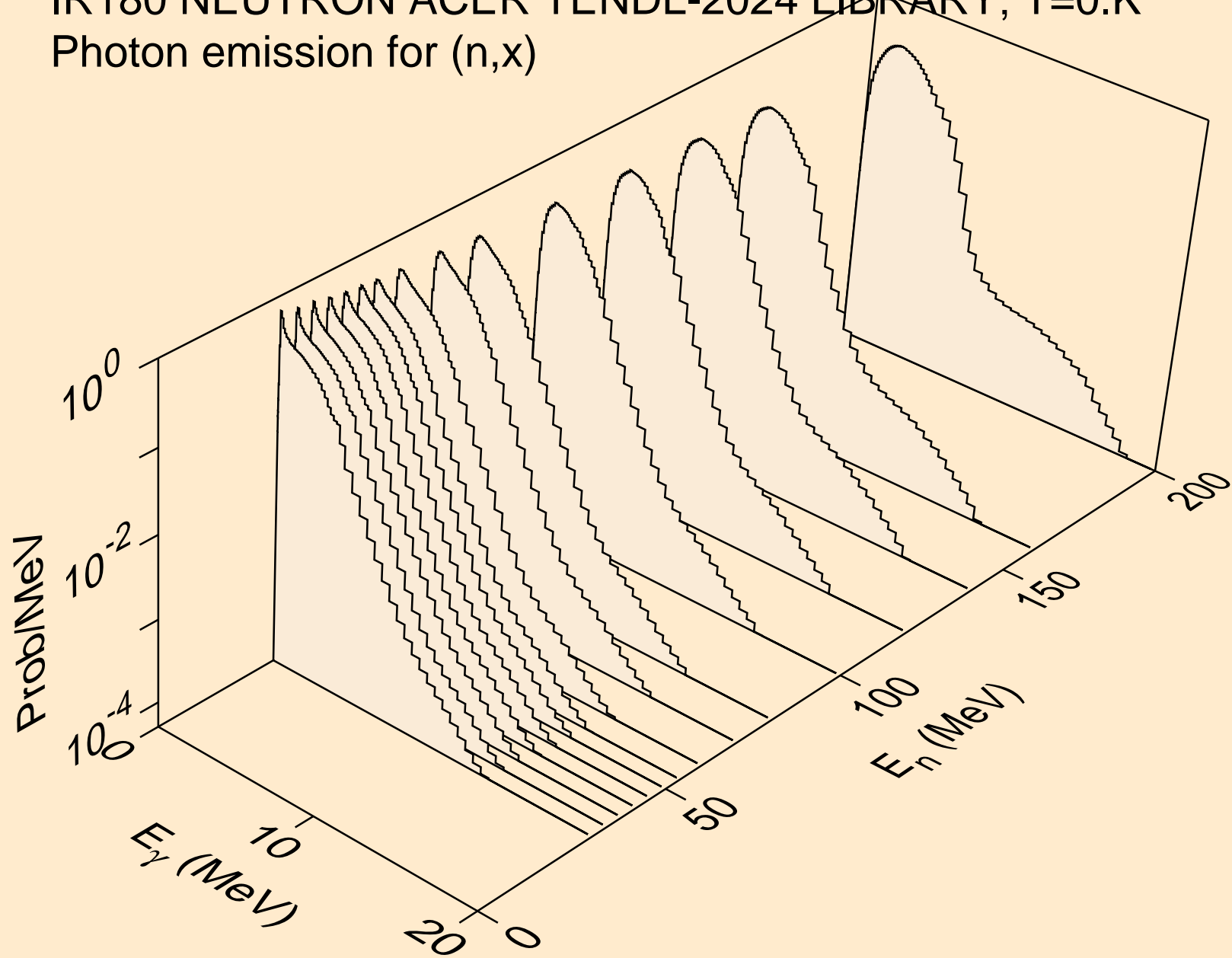
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,npa)



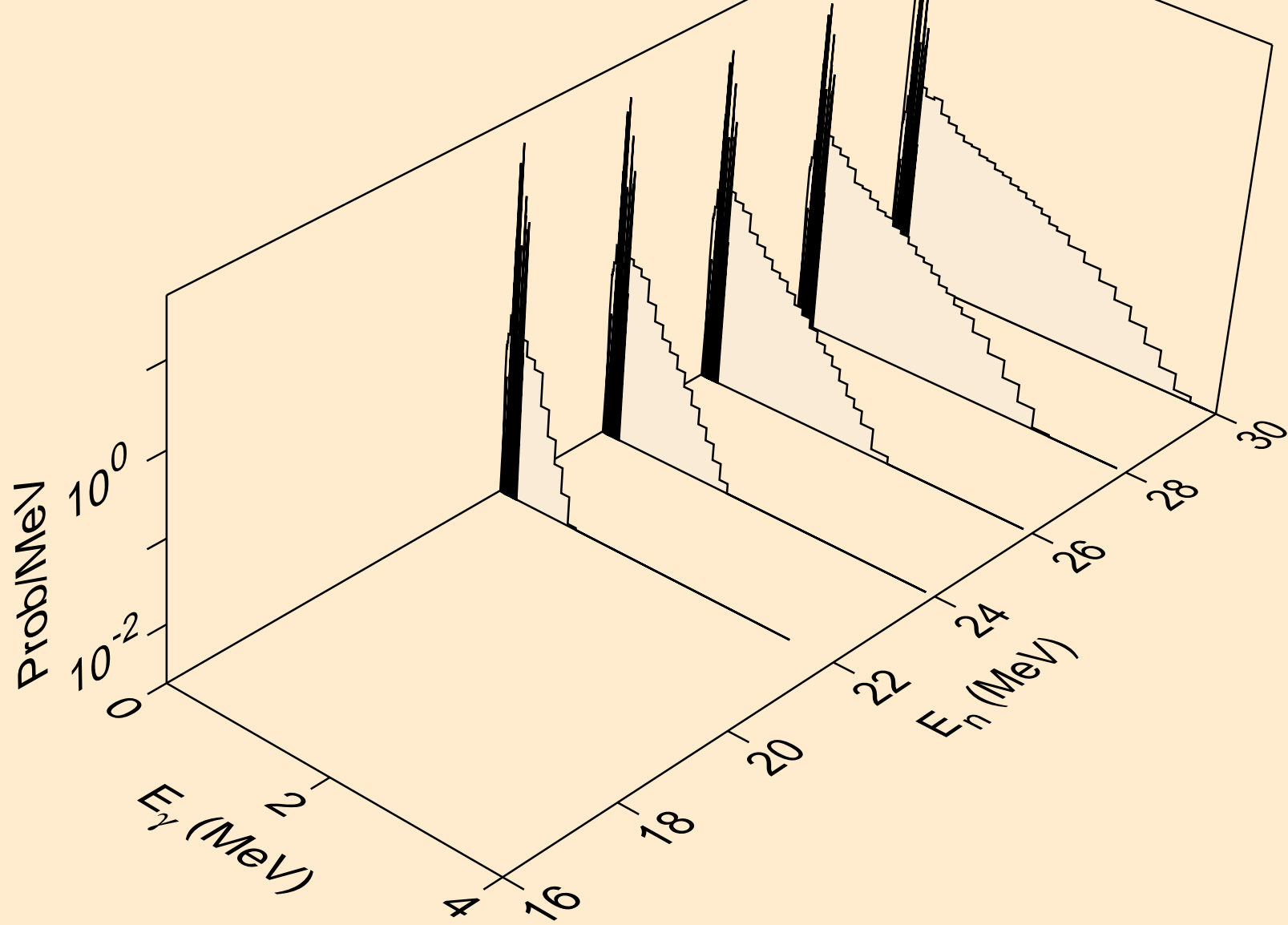
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



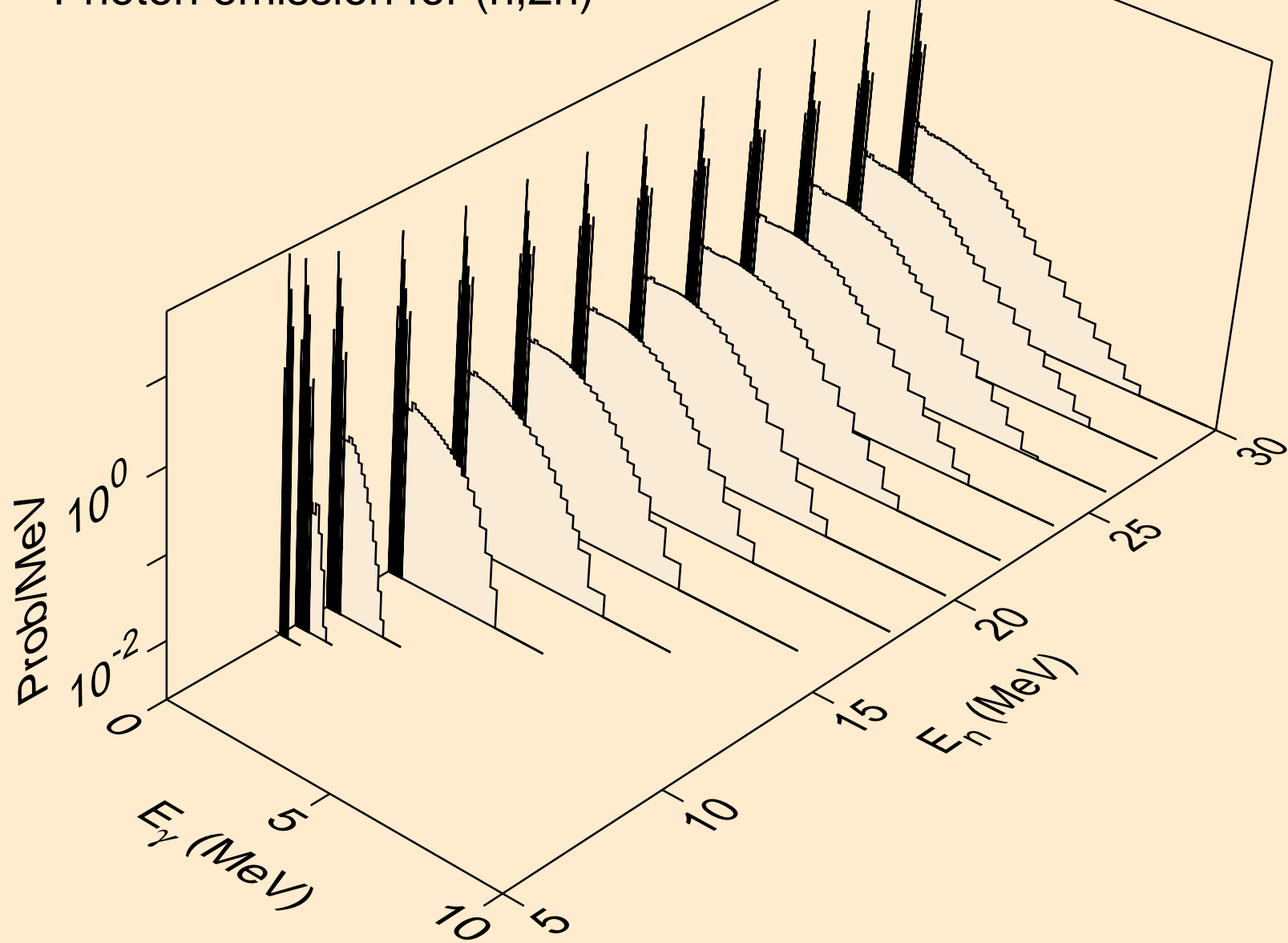
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Photon emission for (n,x)



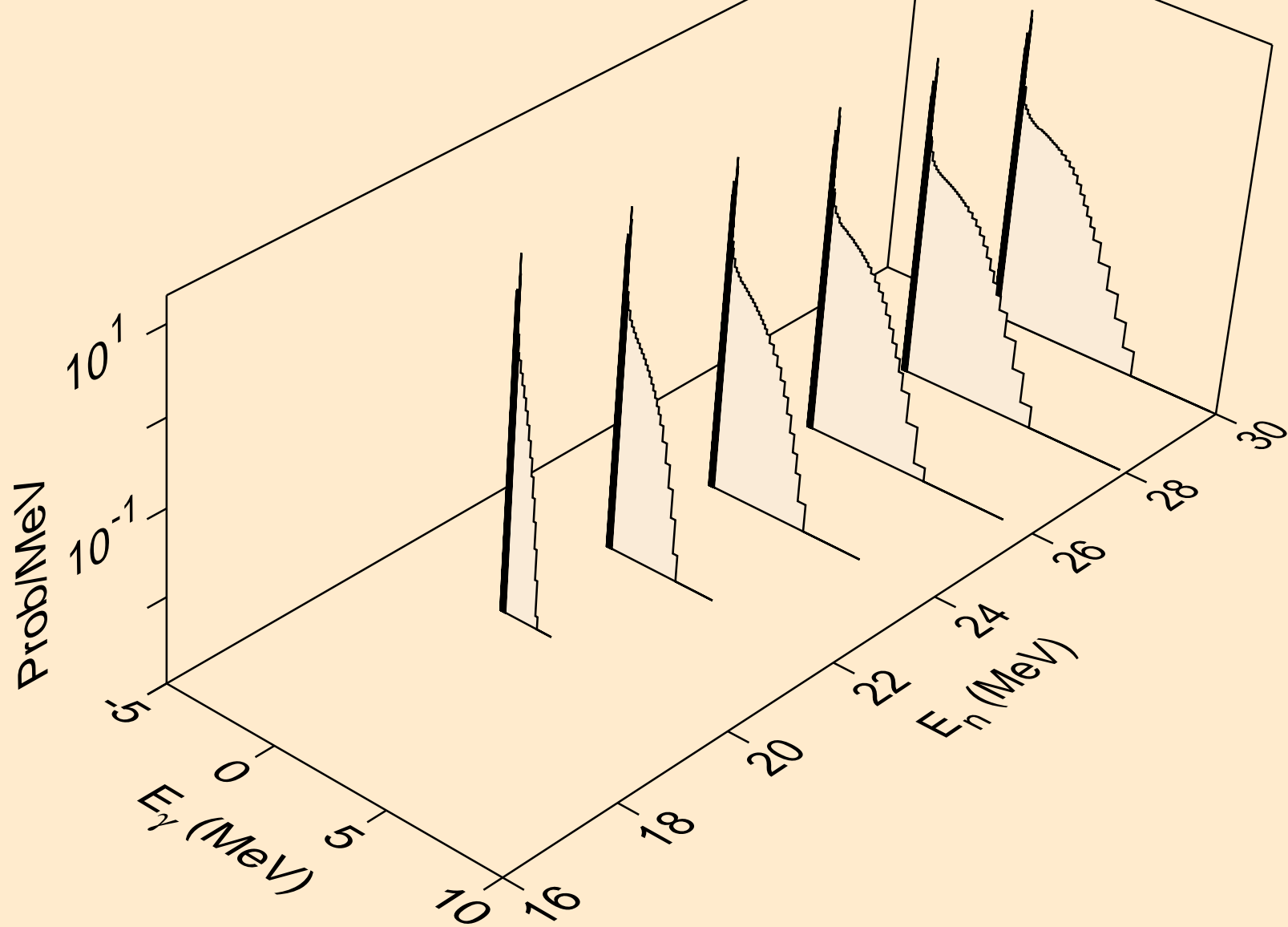
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Photon emission for (n,2nd)



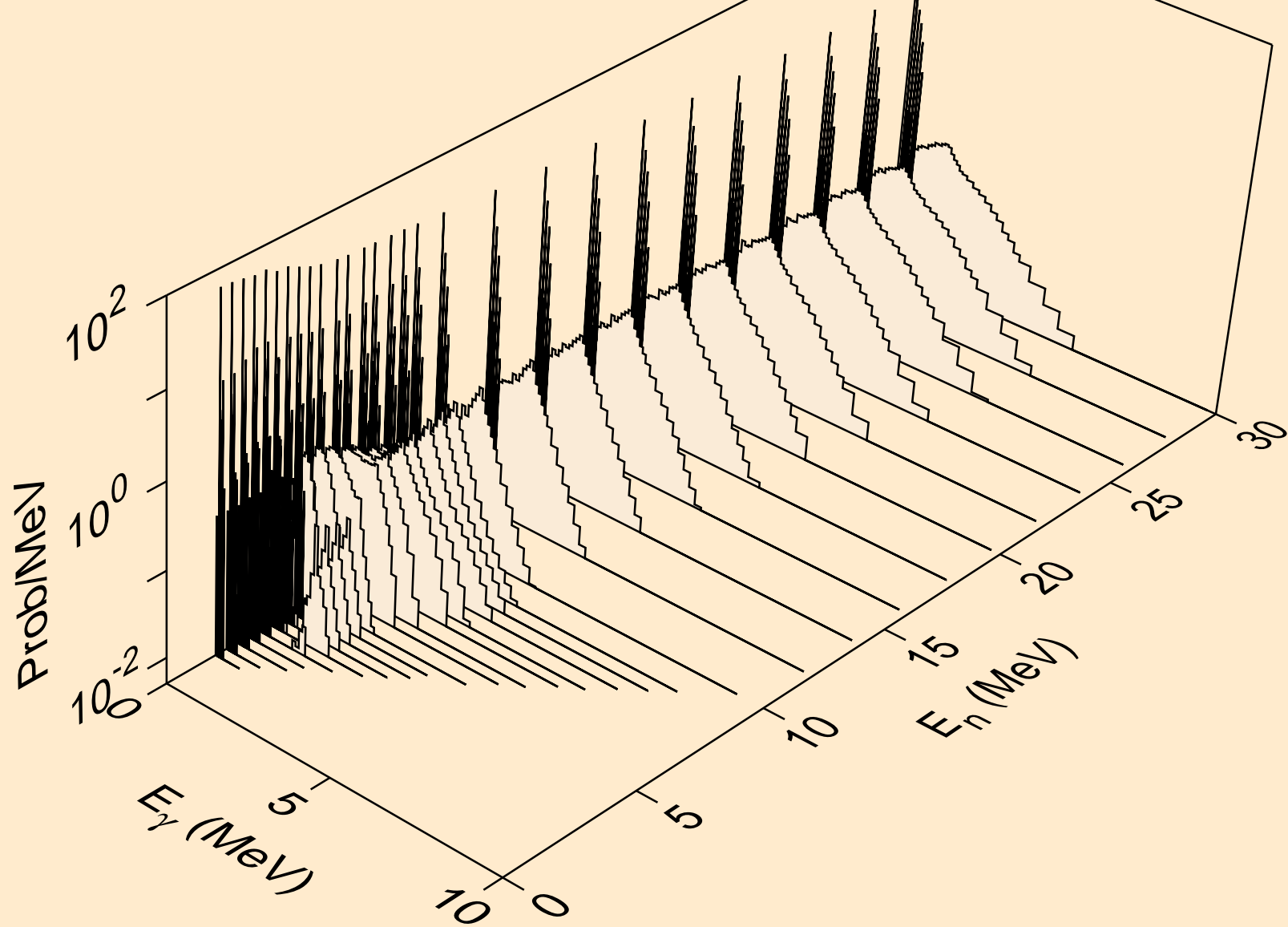
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Photon emission for (n,2n)



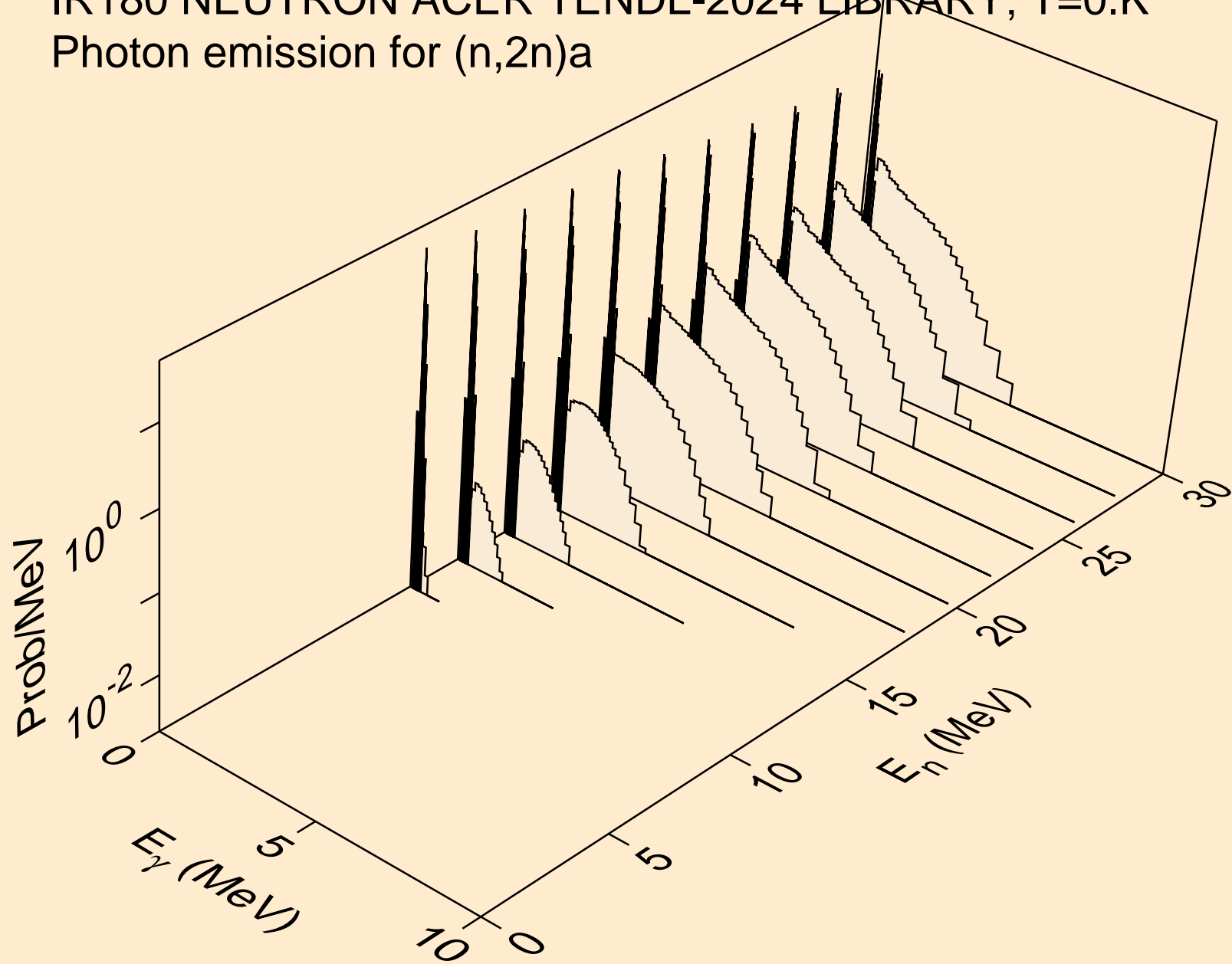
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

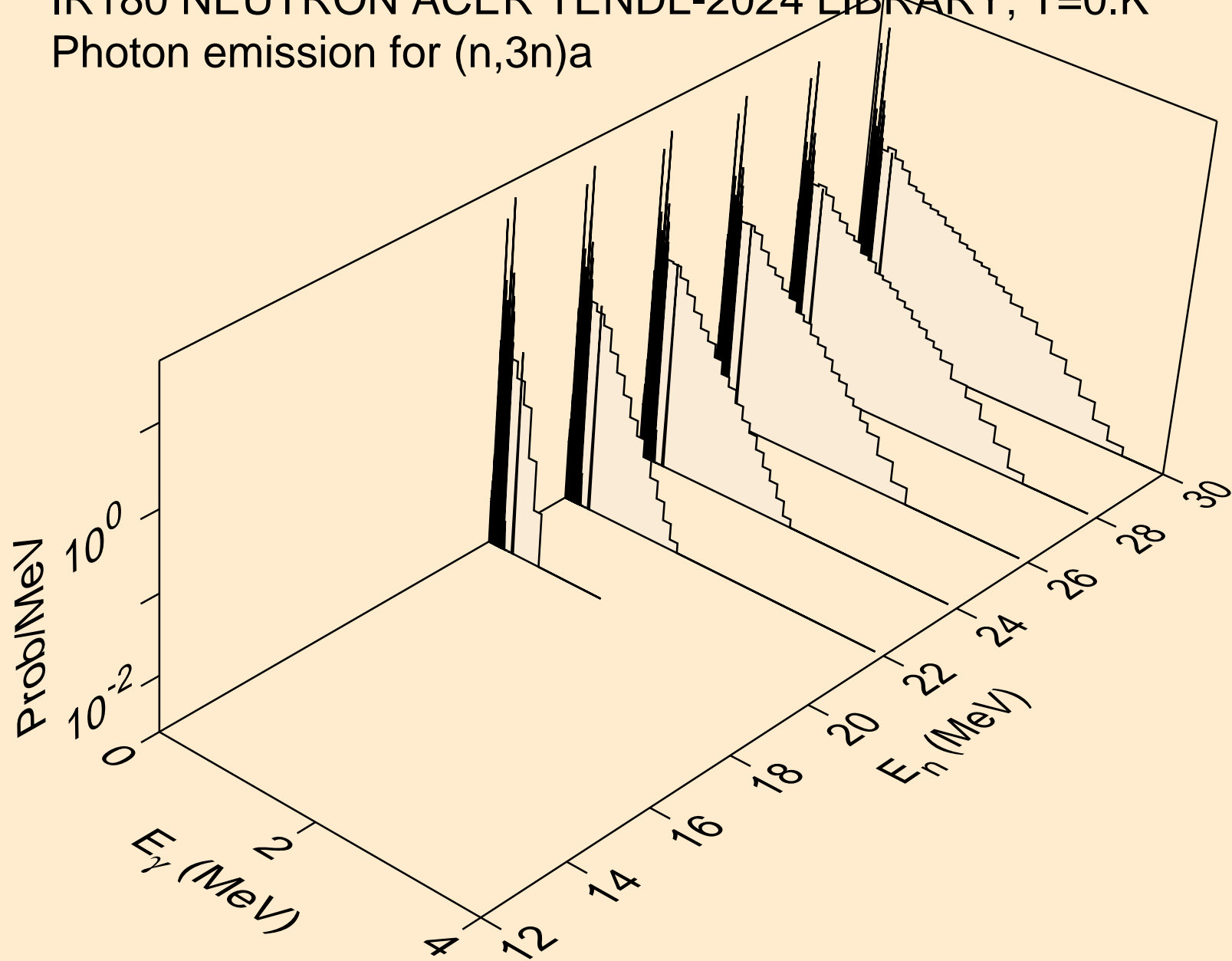


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a

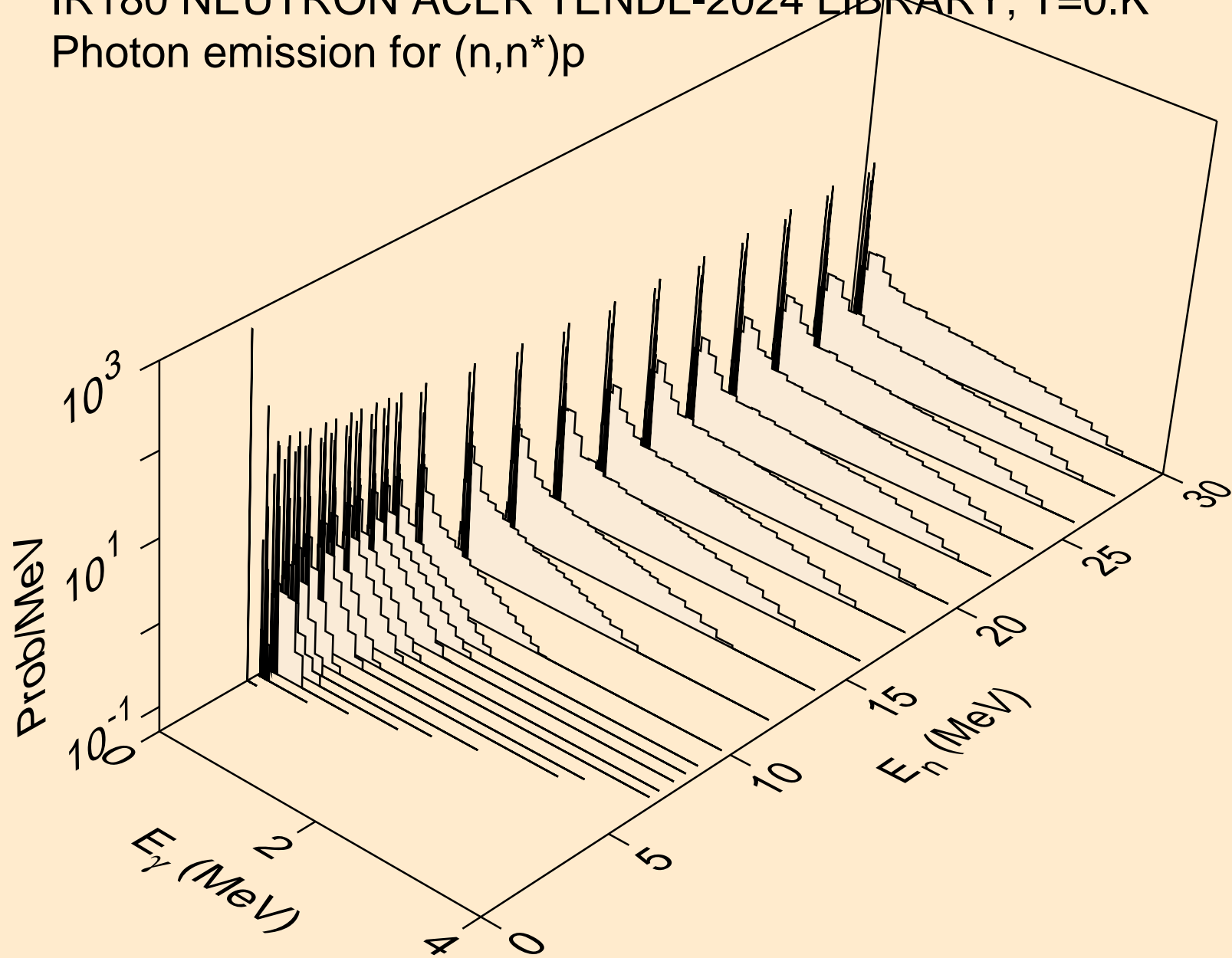




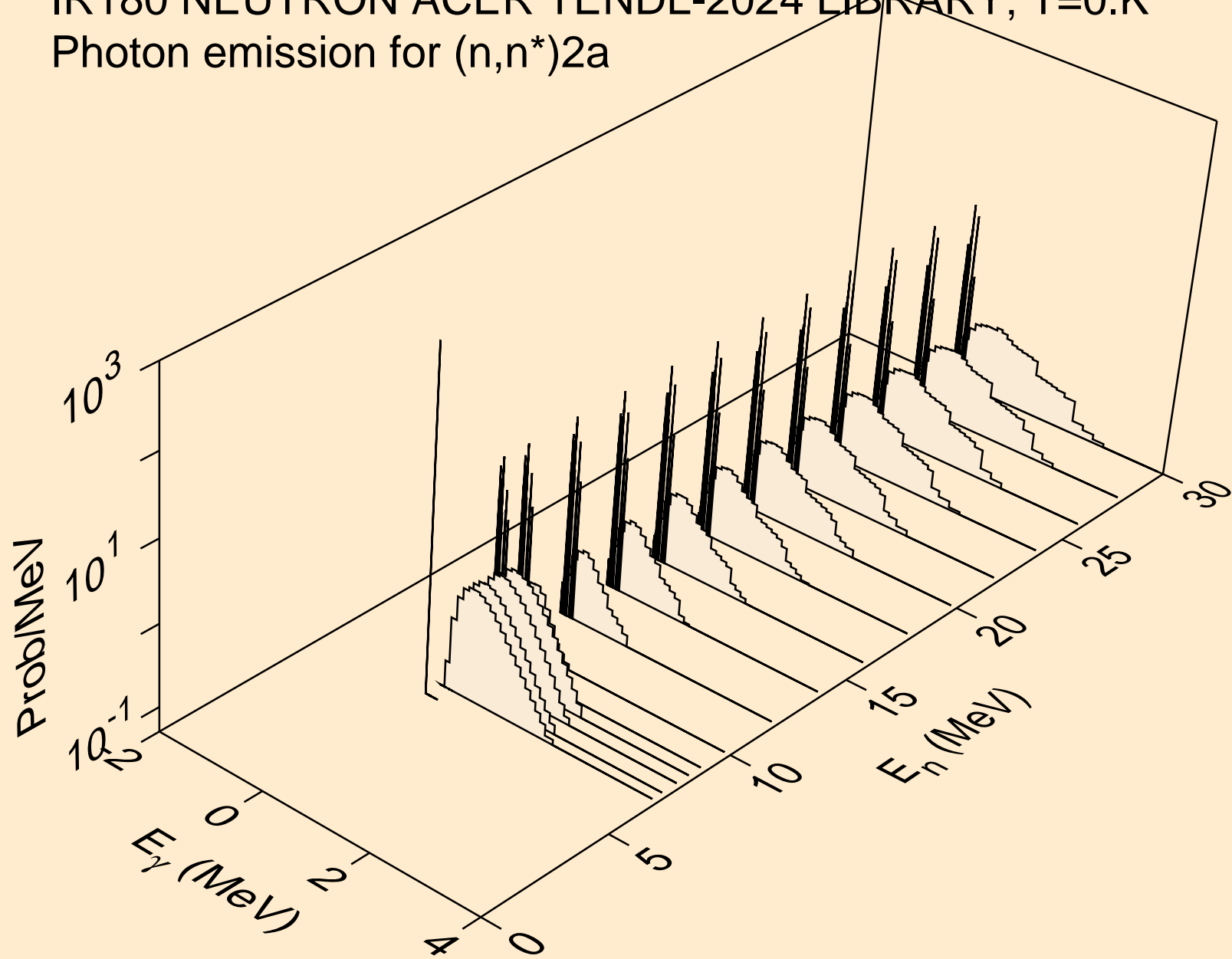
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)a



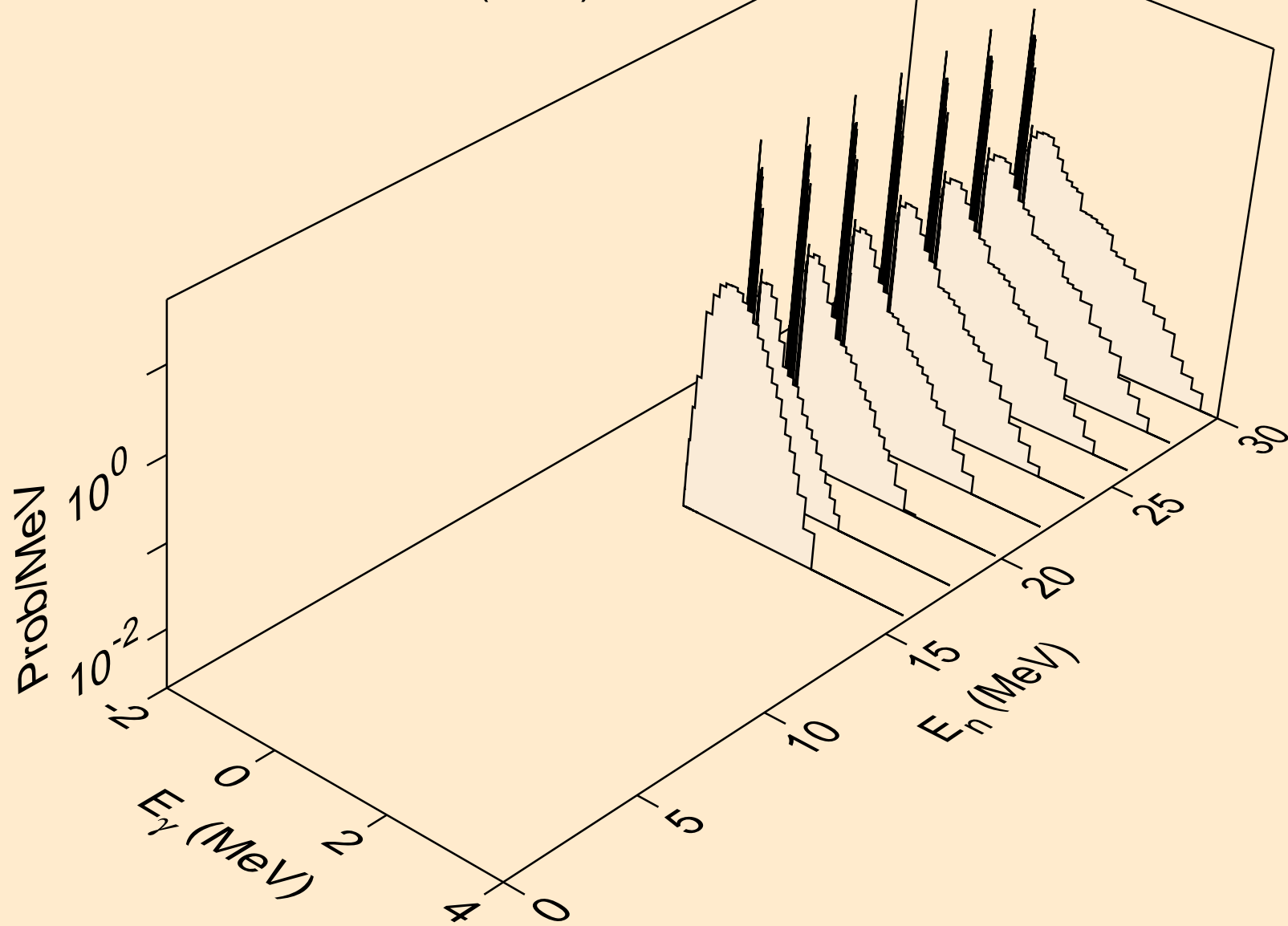
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



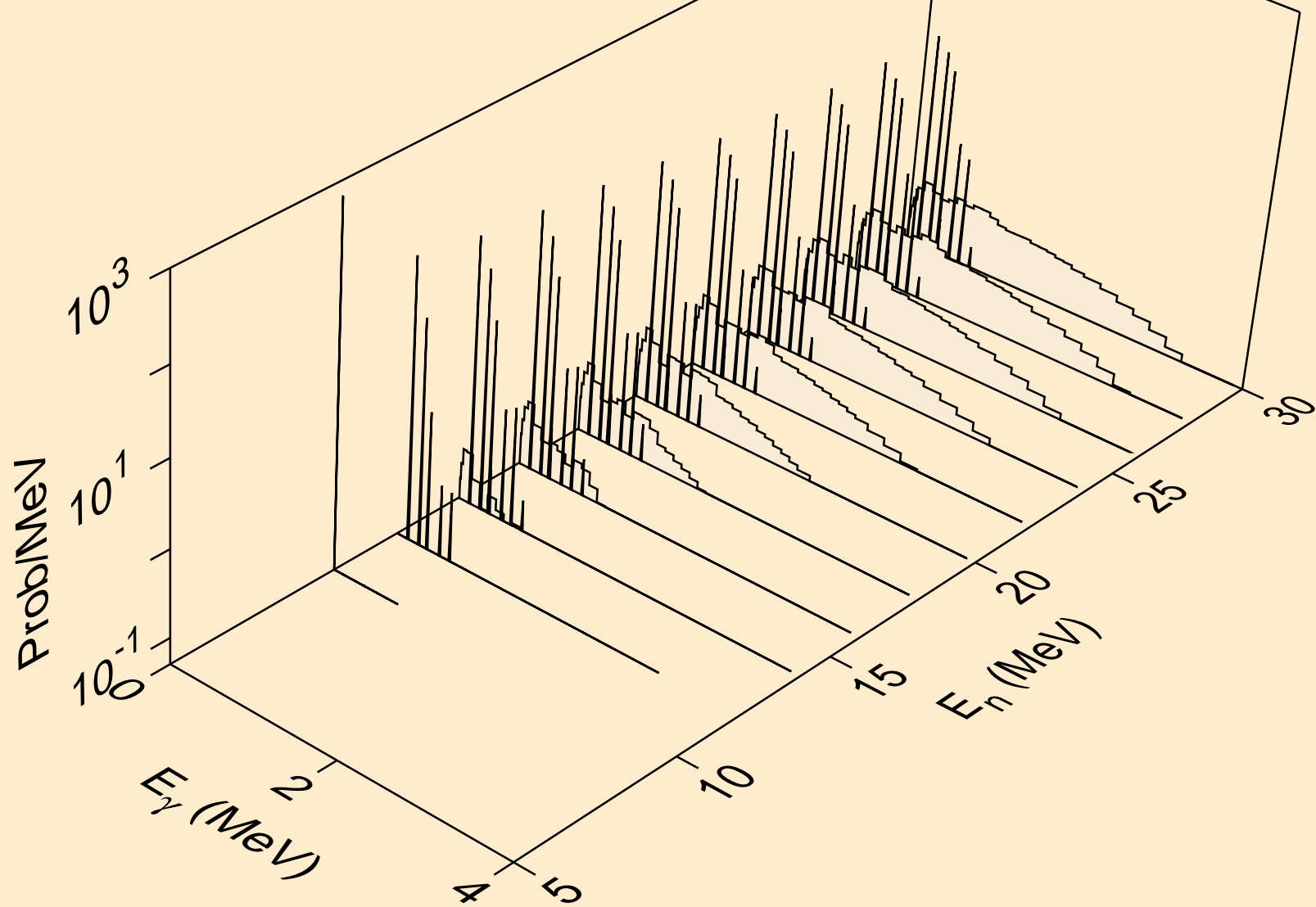
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Photon emission for (n,n\*)2a



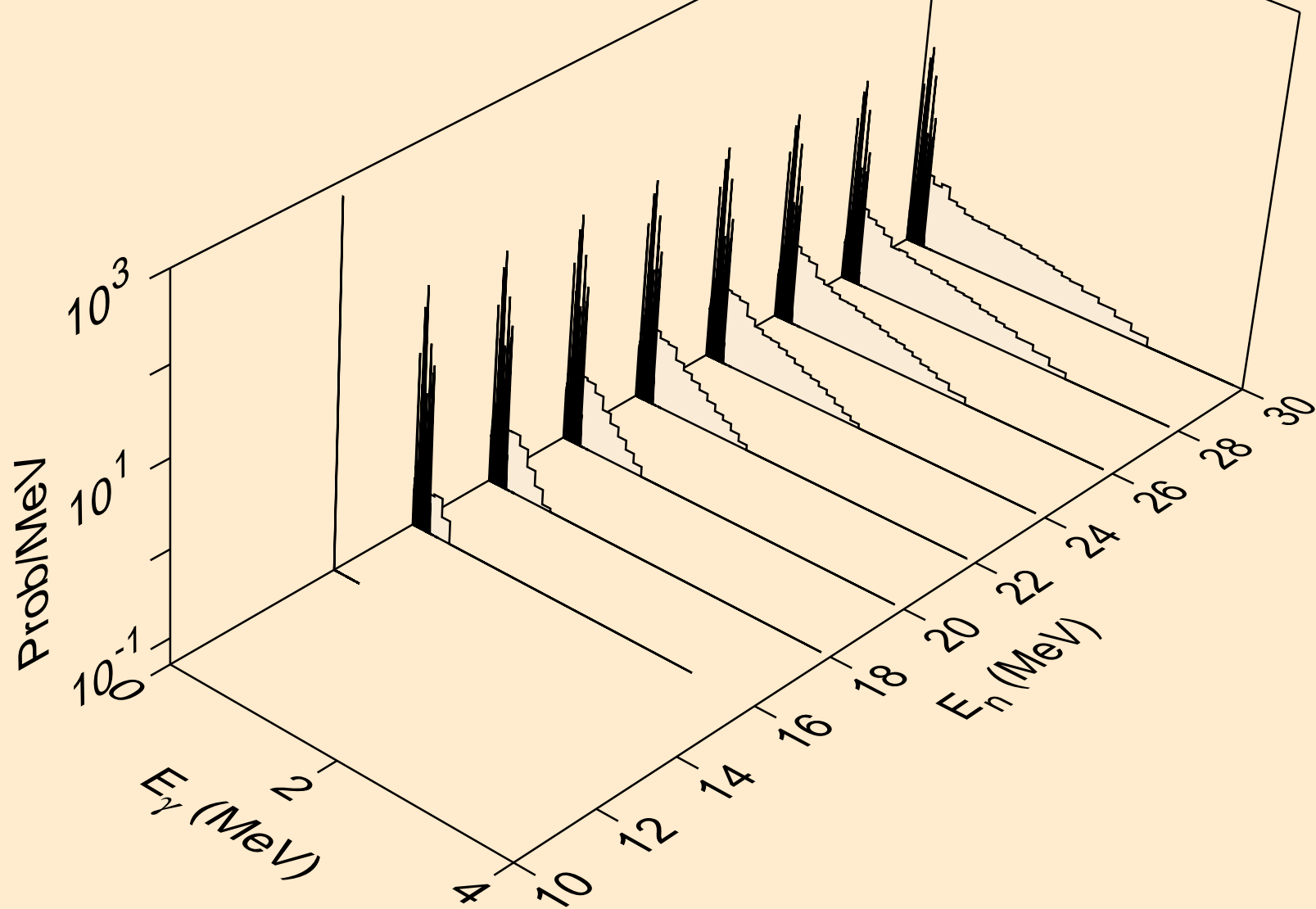
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



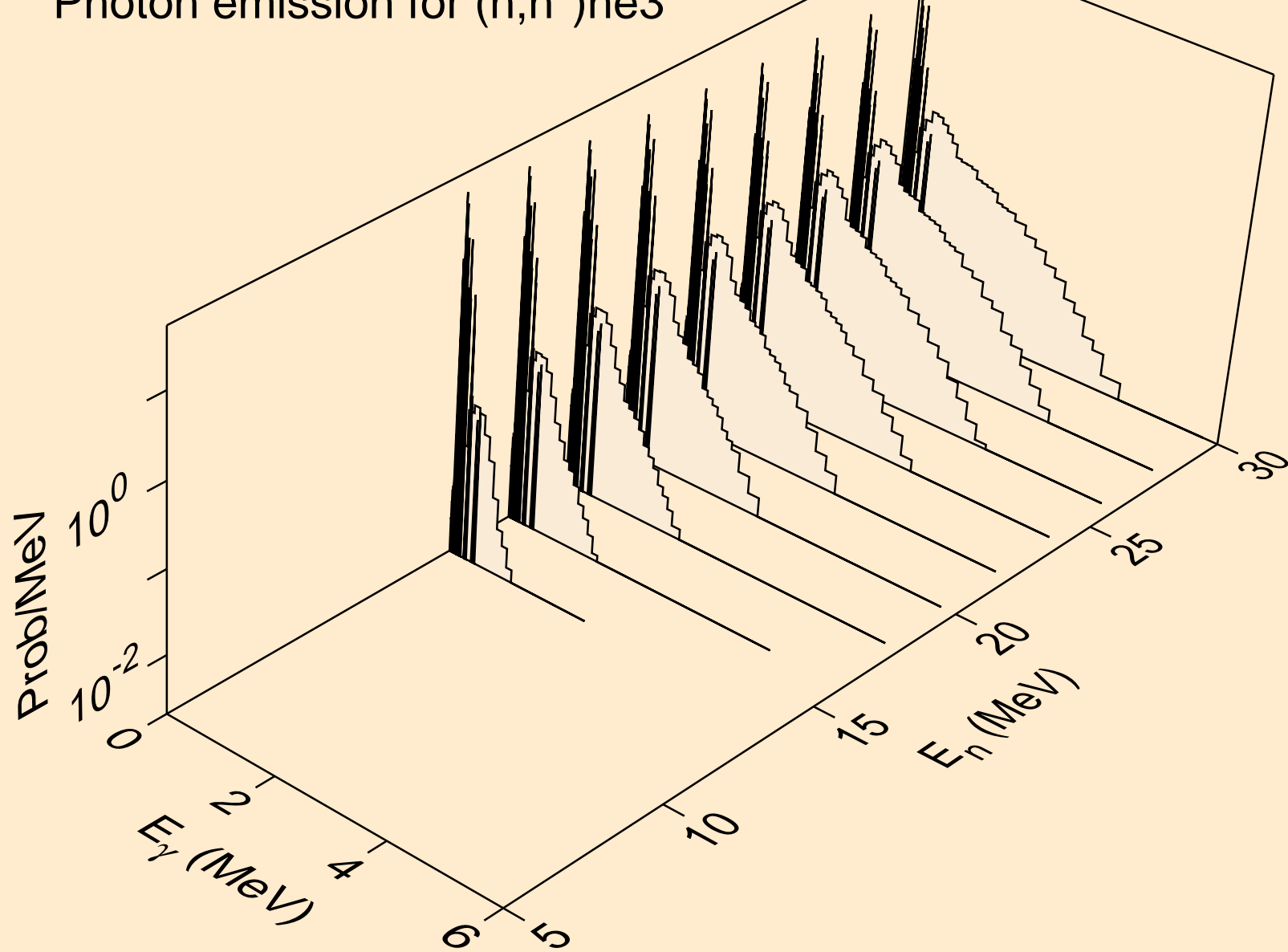
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



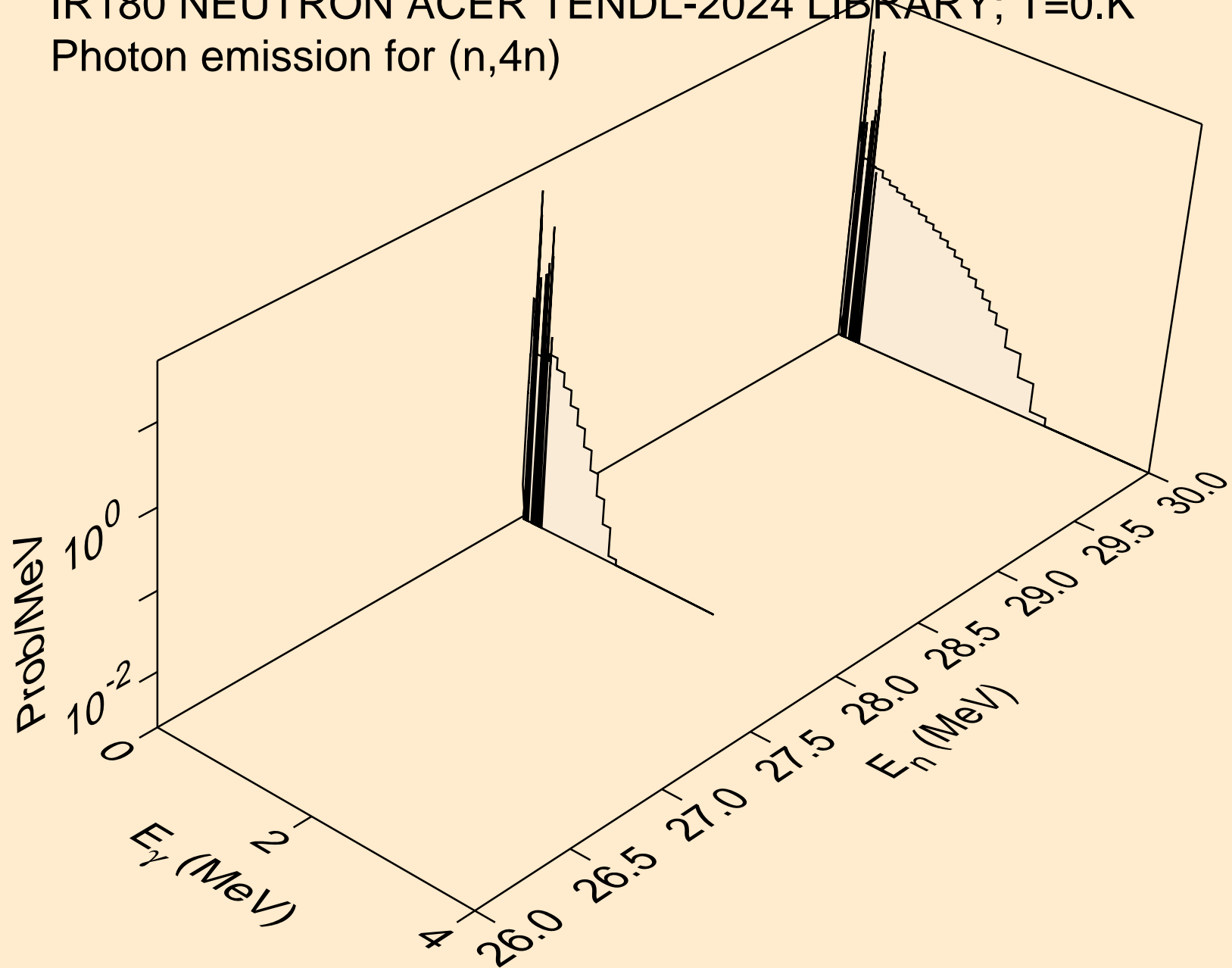
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

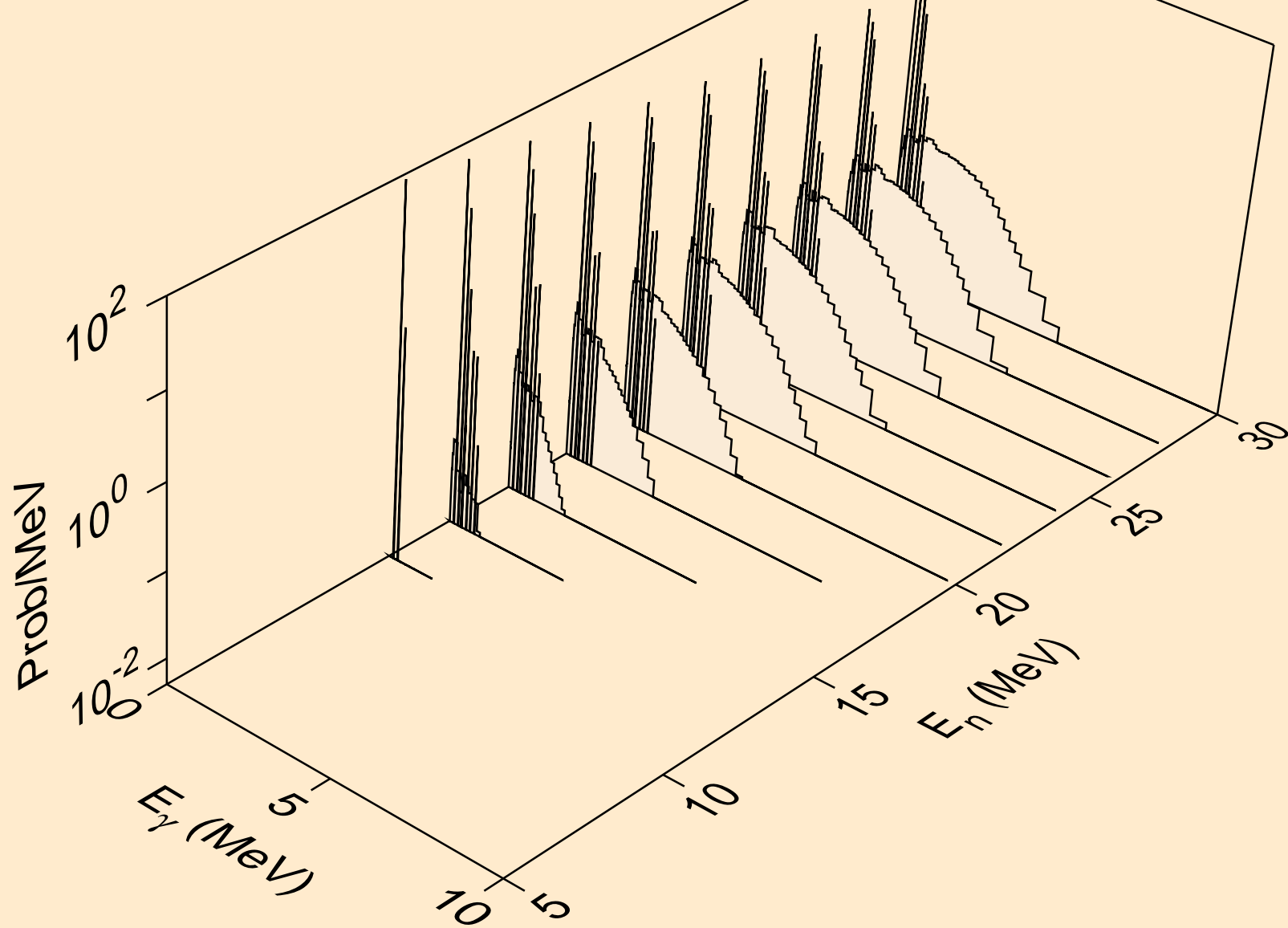


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)

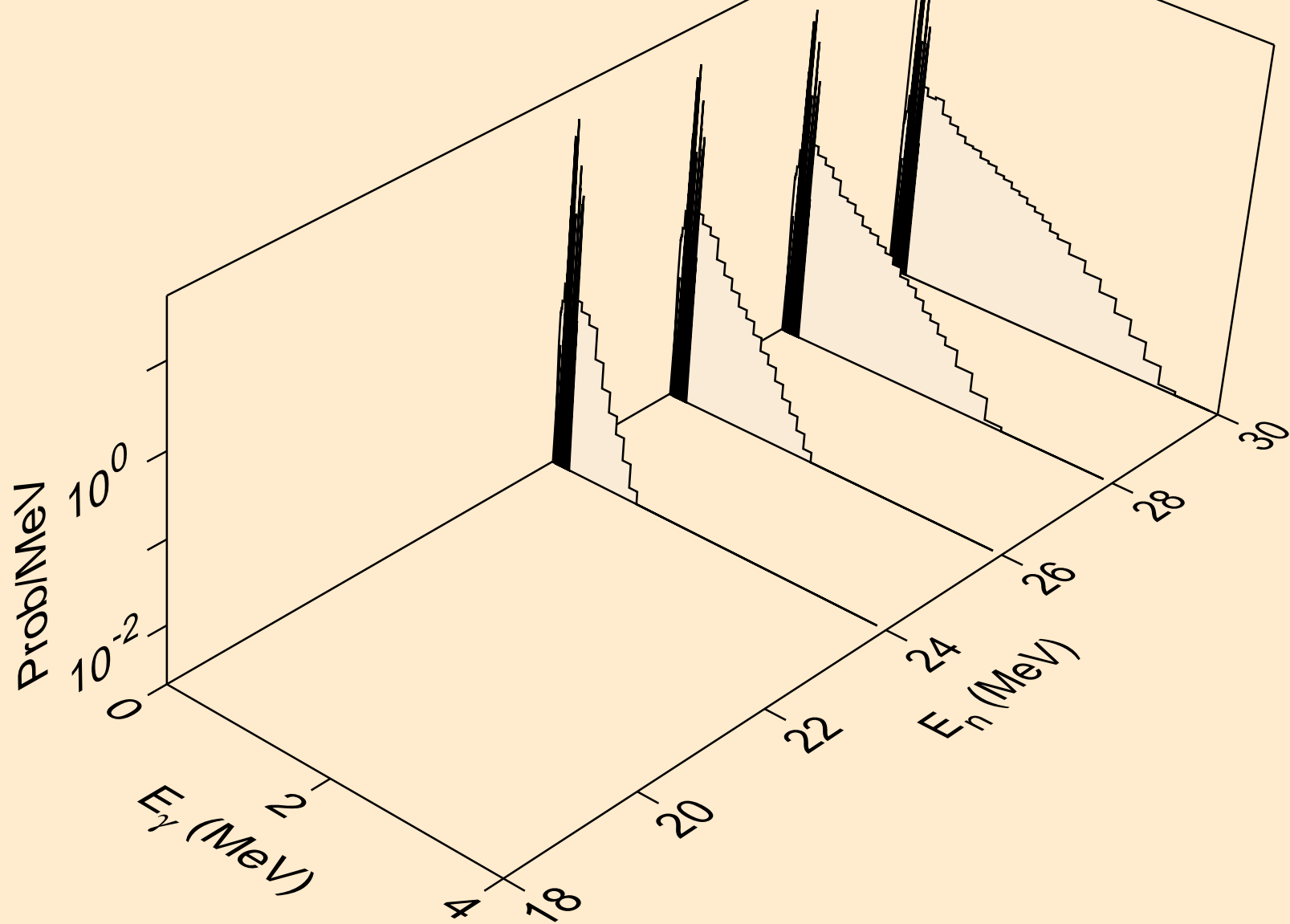




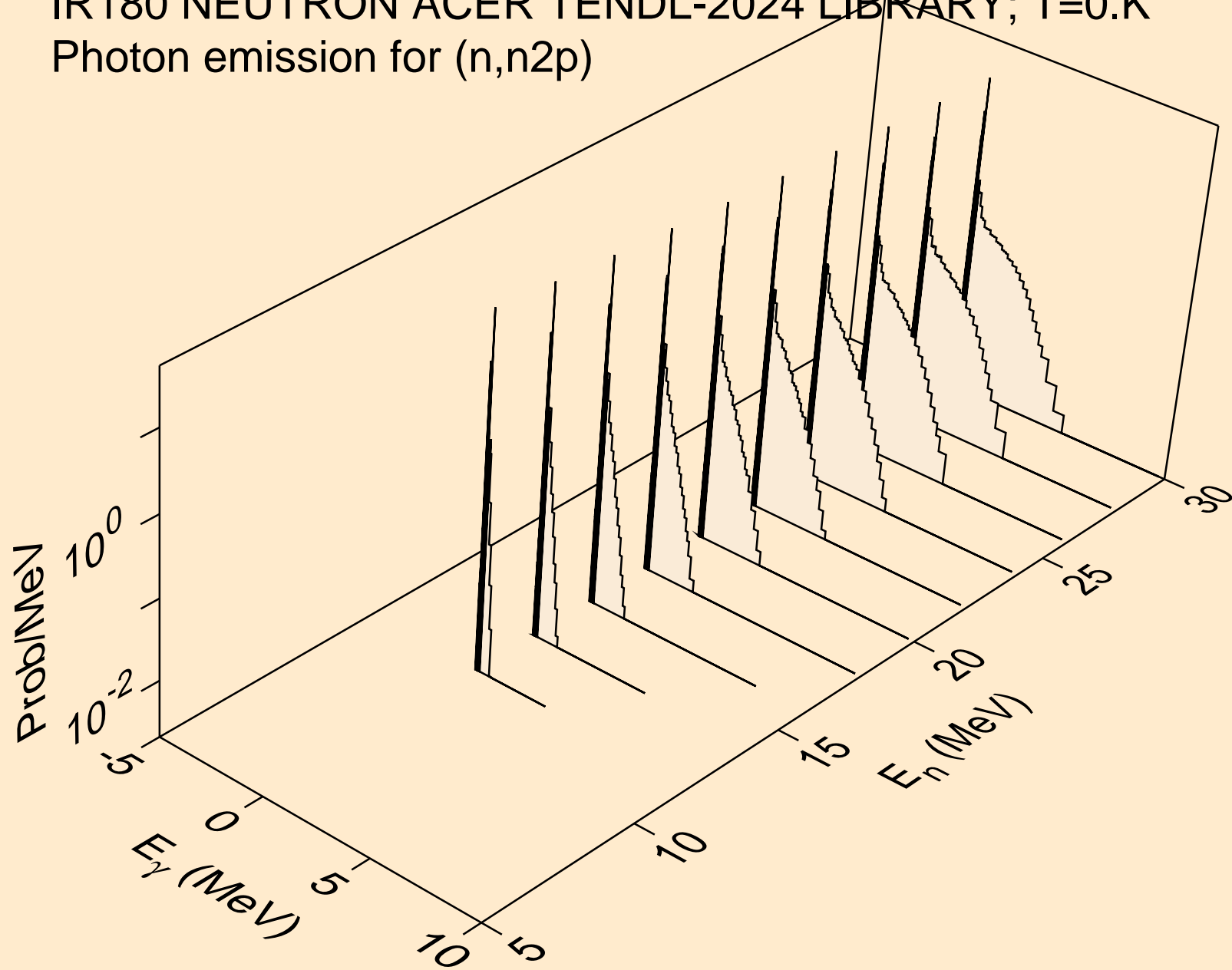
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



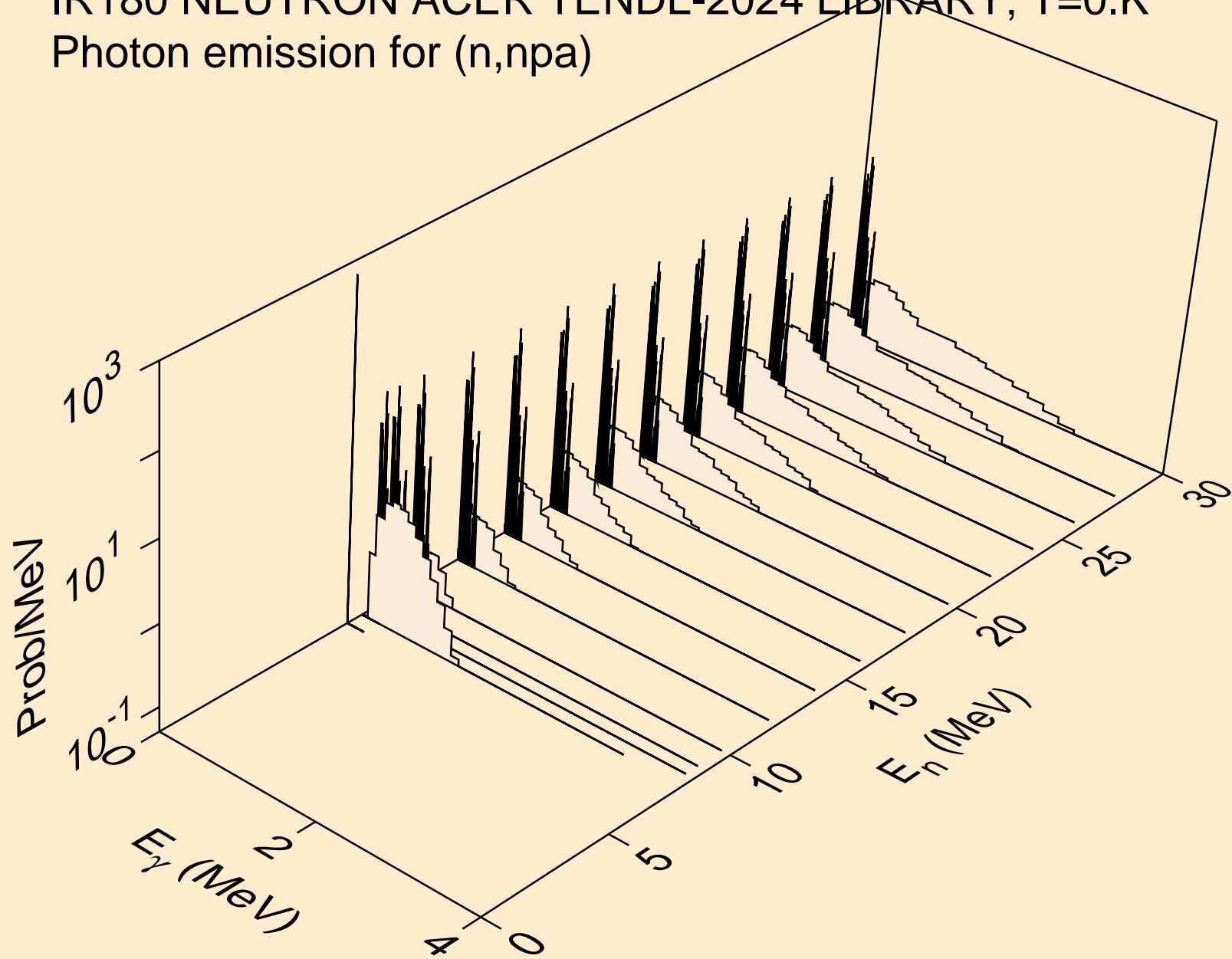
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3np)



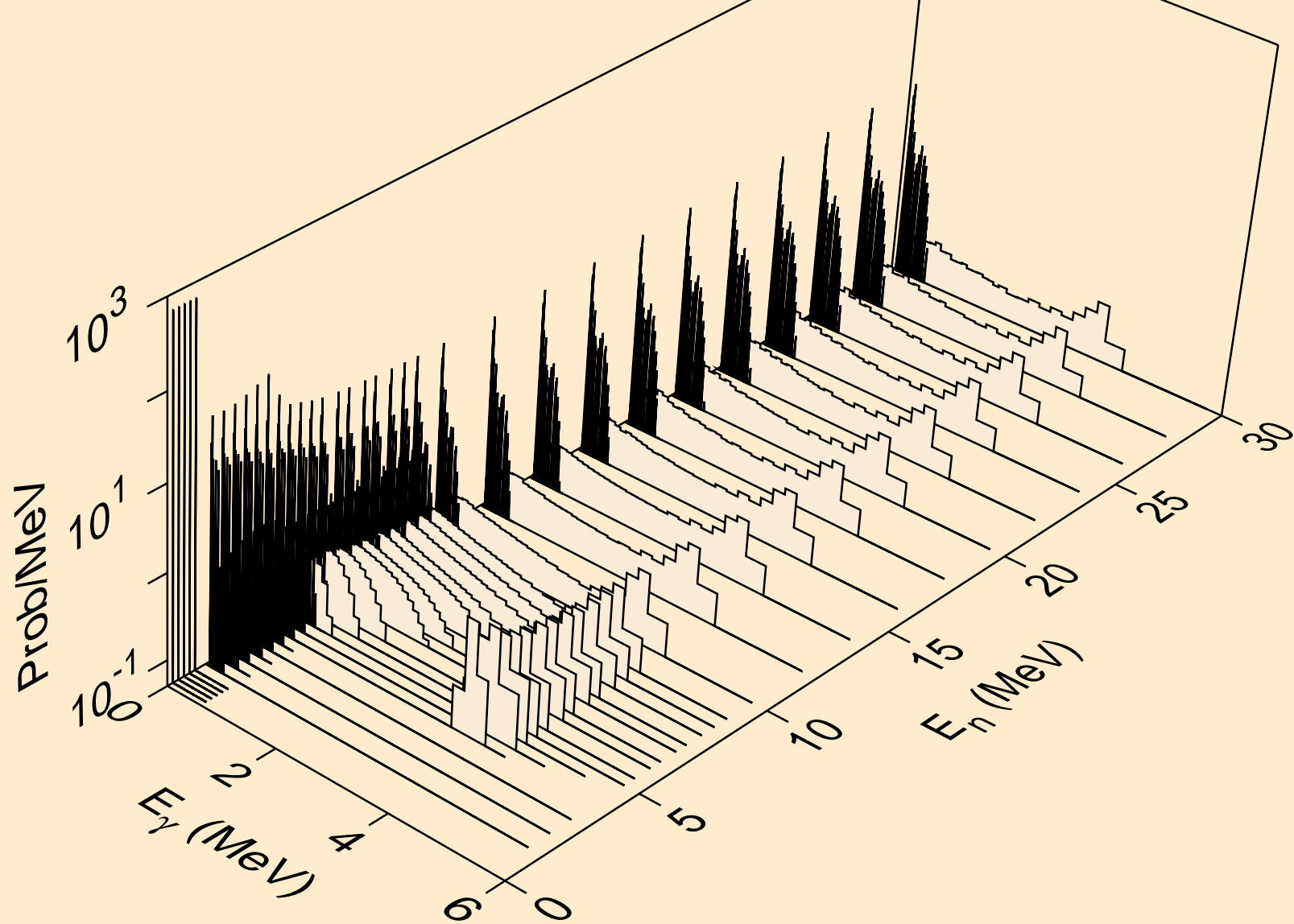
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n2p)



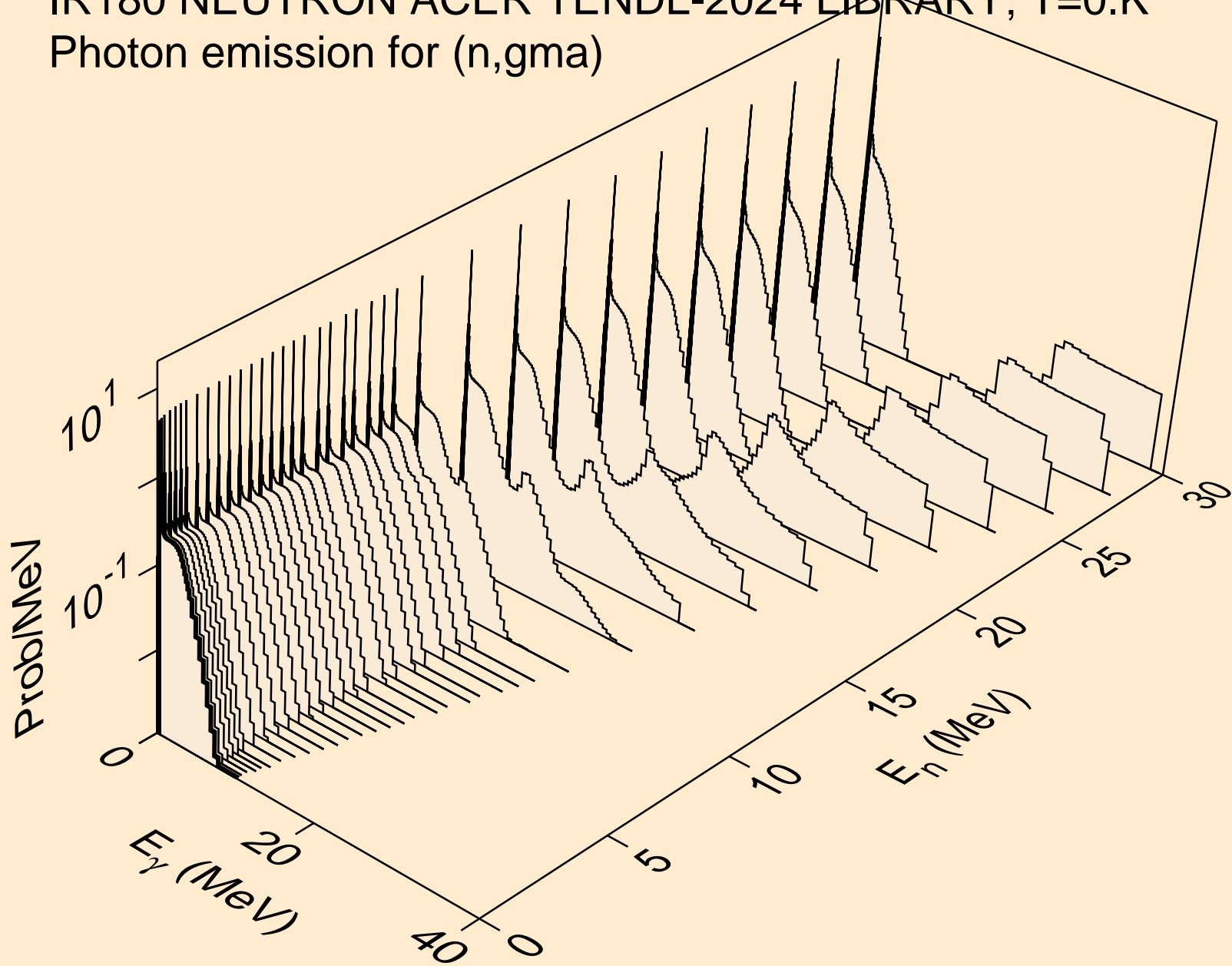
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,npa)



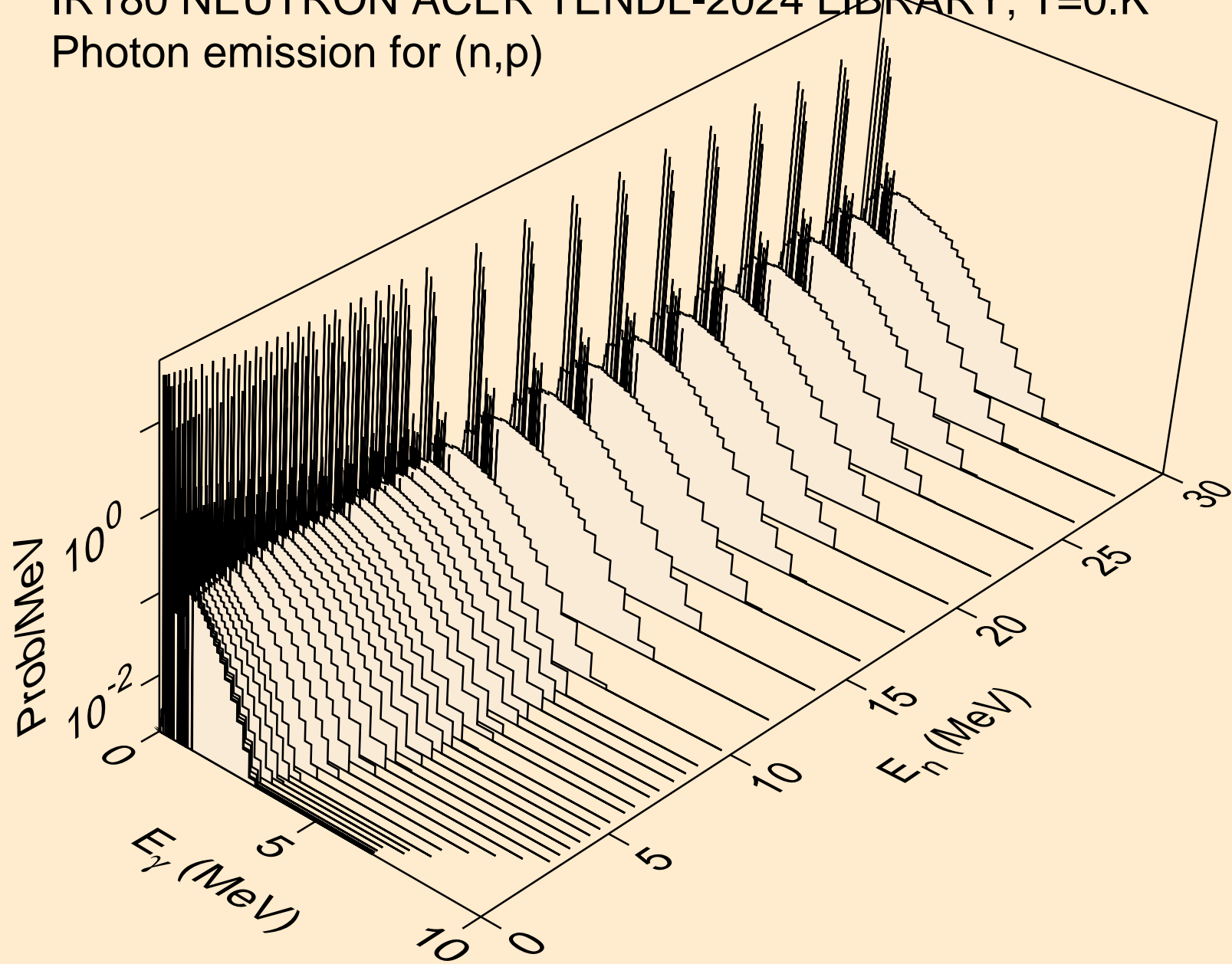
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



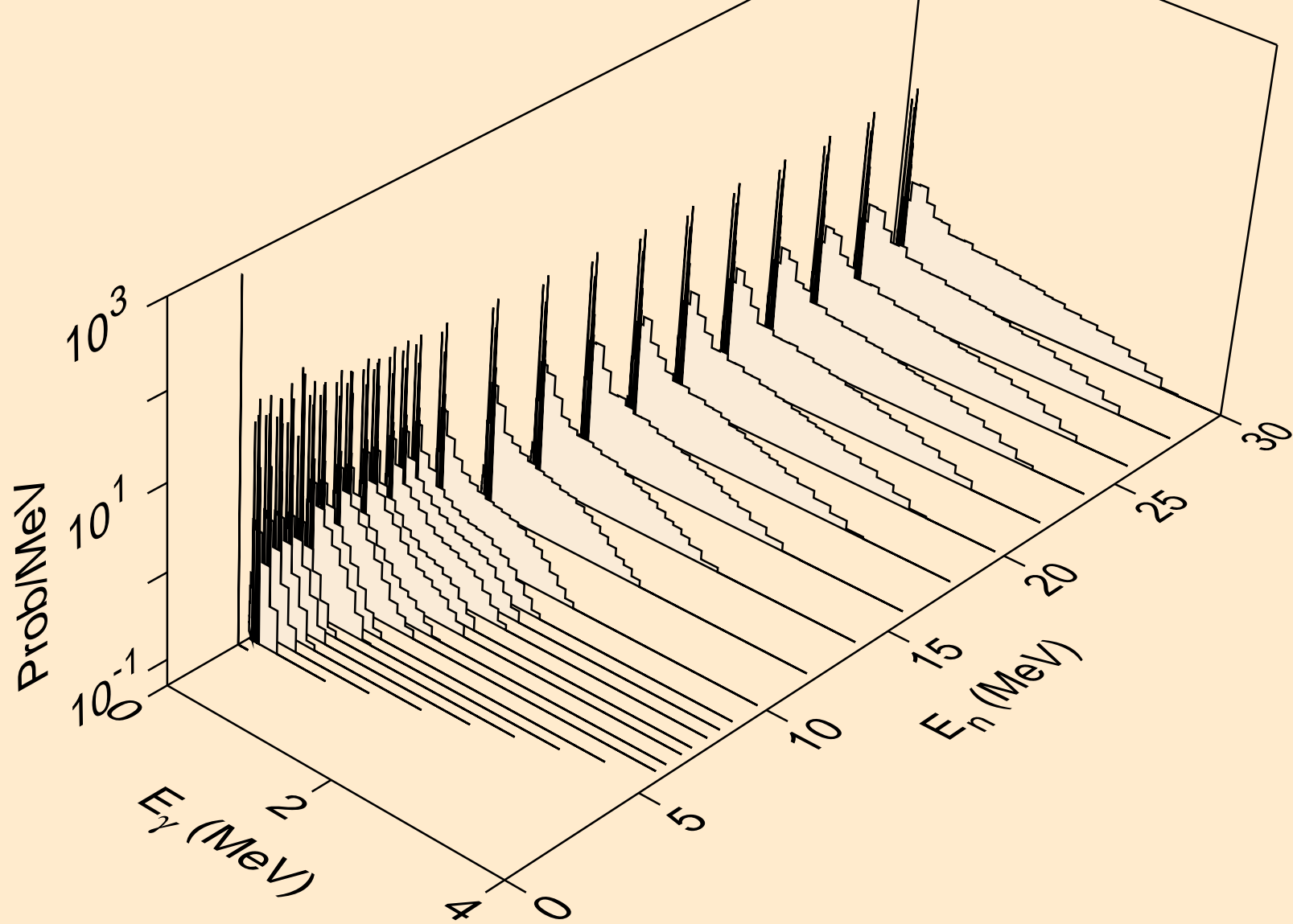
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)

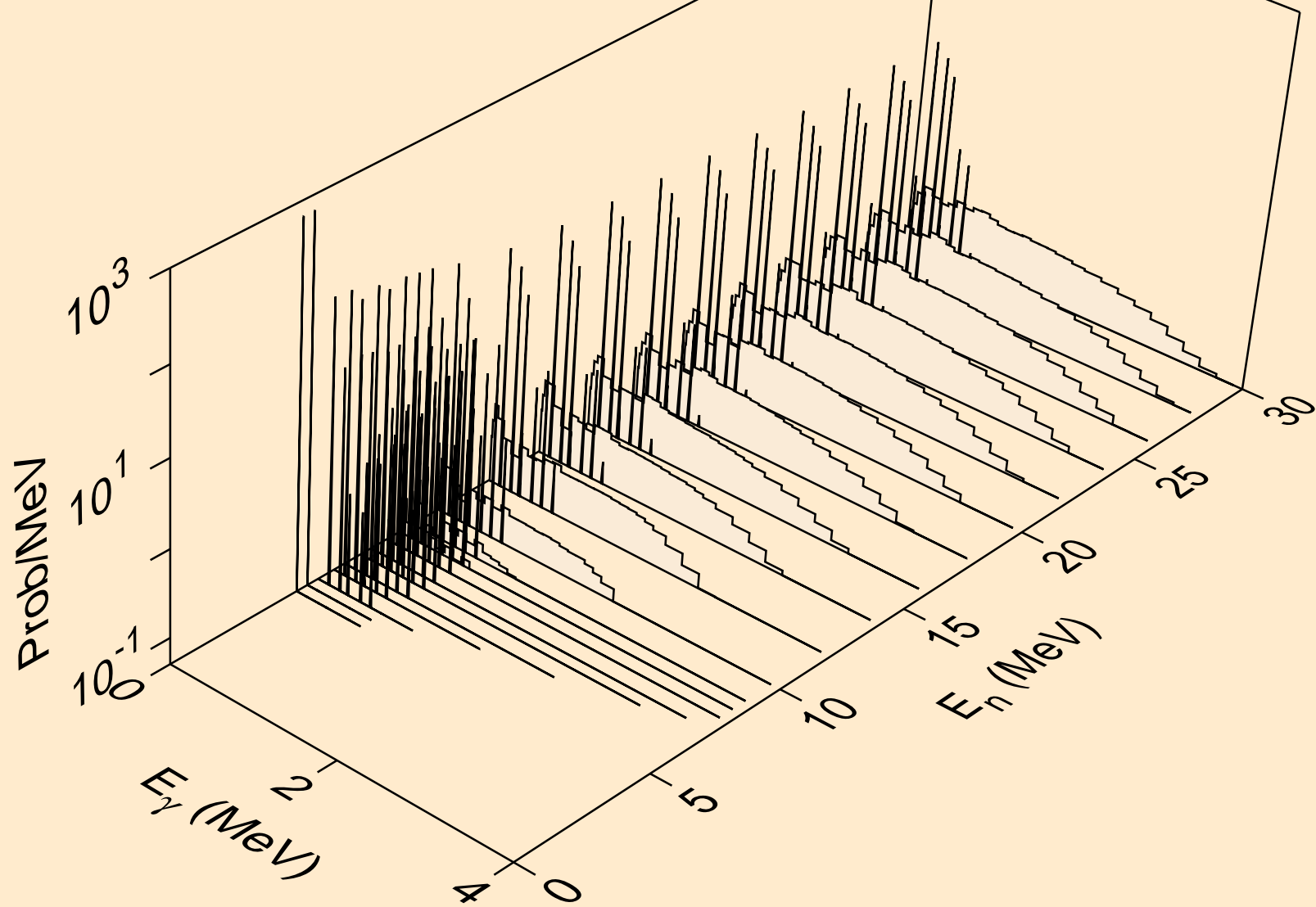


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)

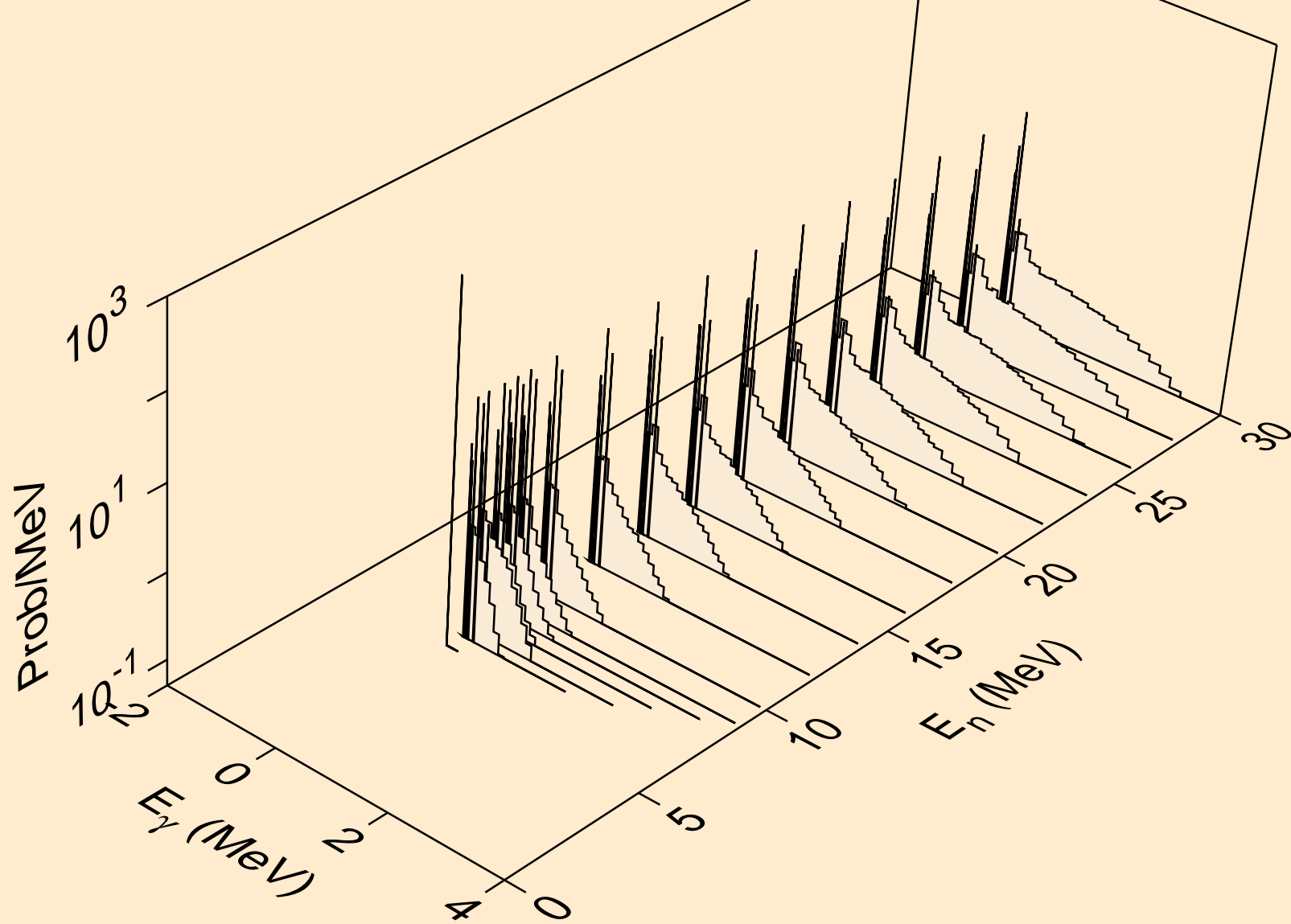




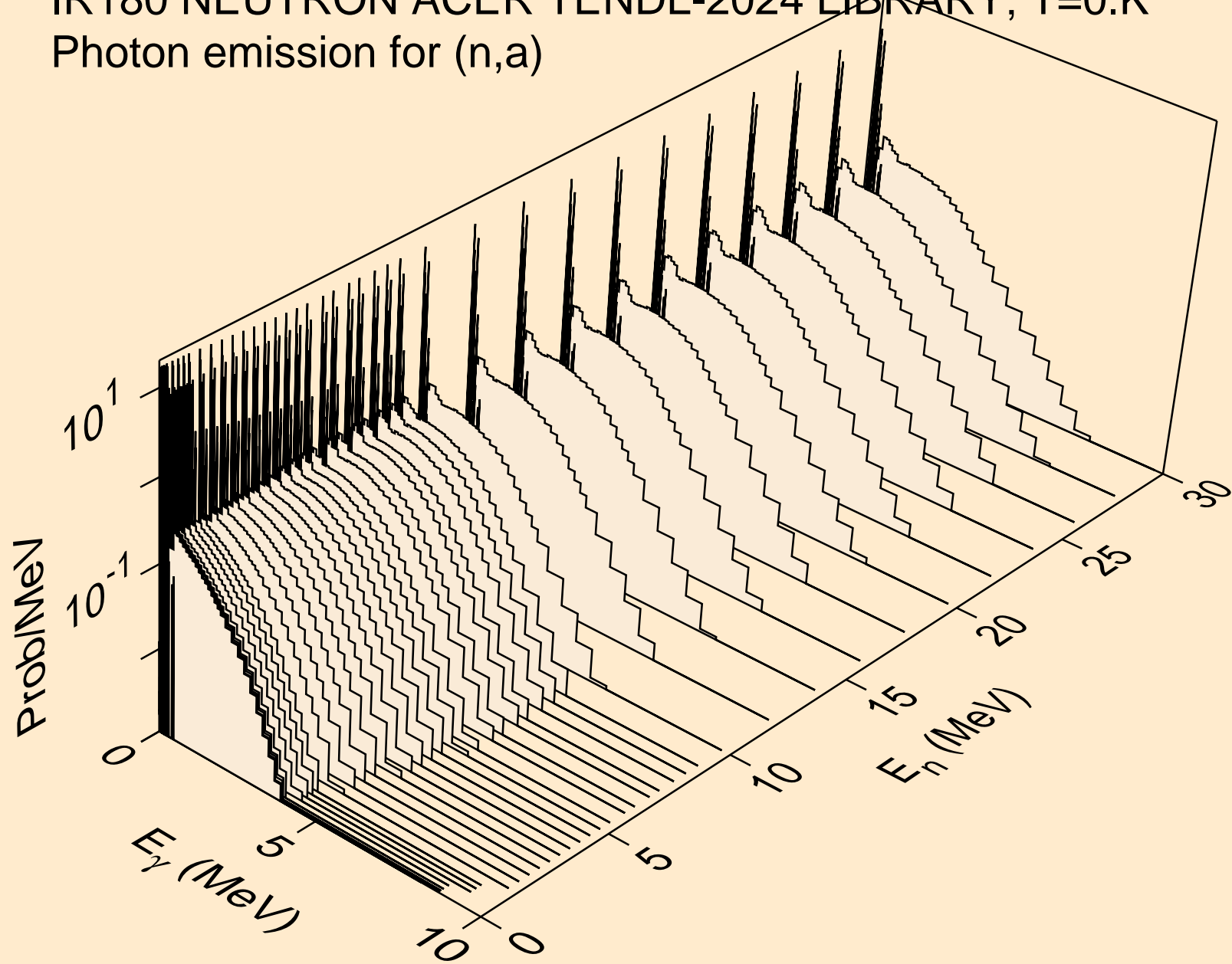
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Photon emission for (n,t)



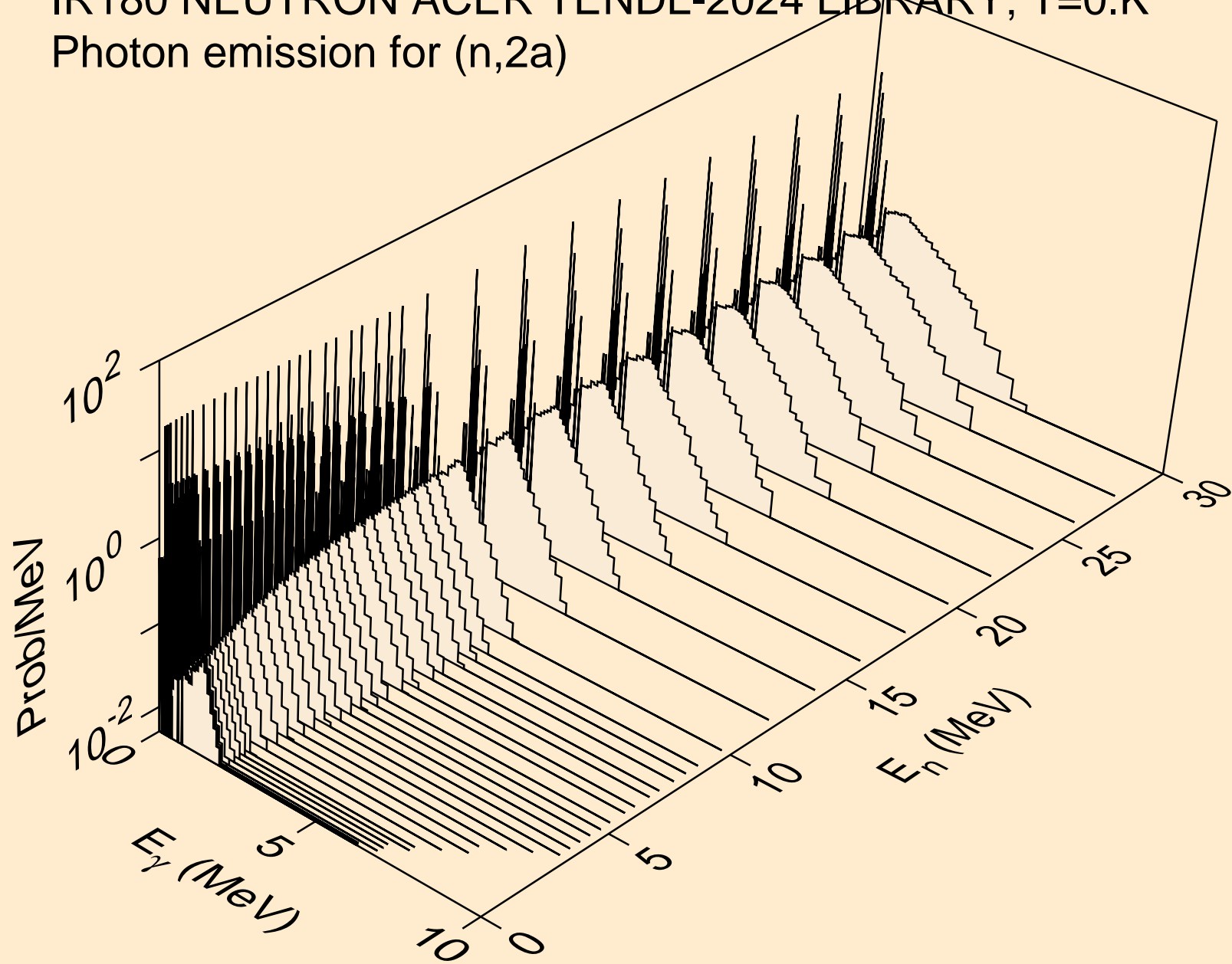
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,he3)



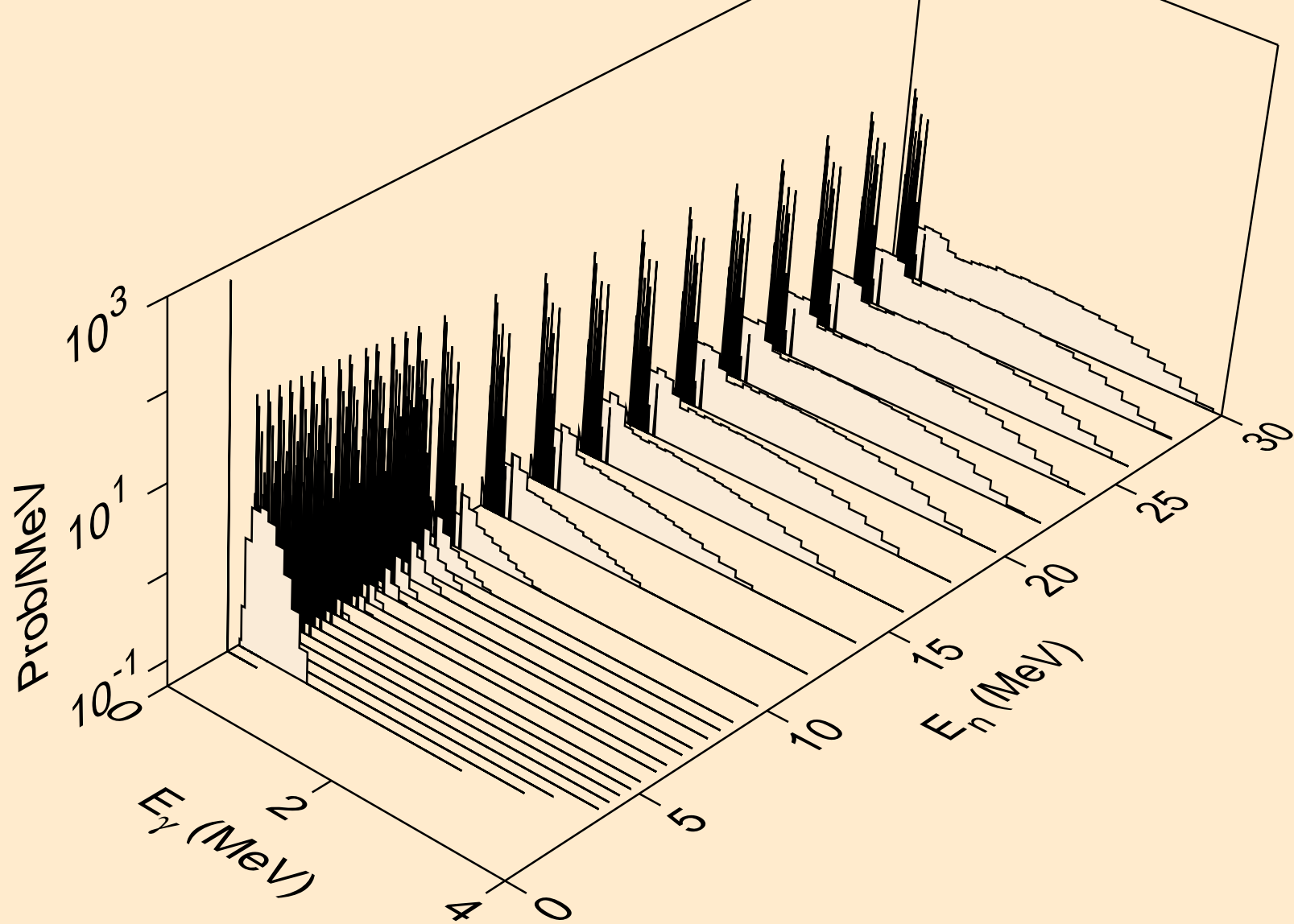
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,a)



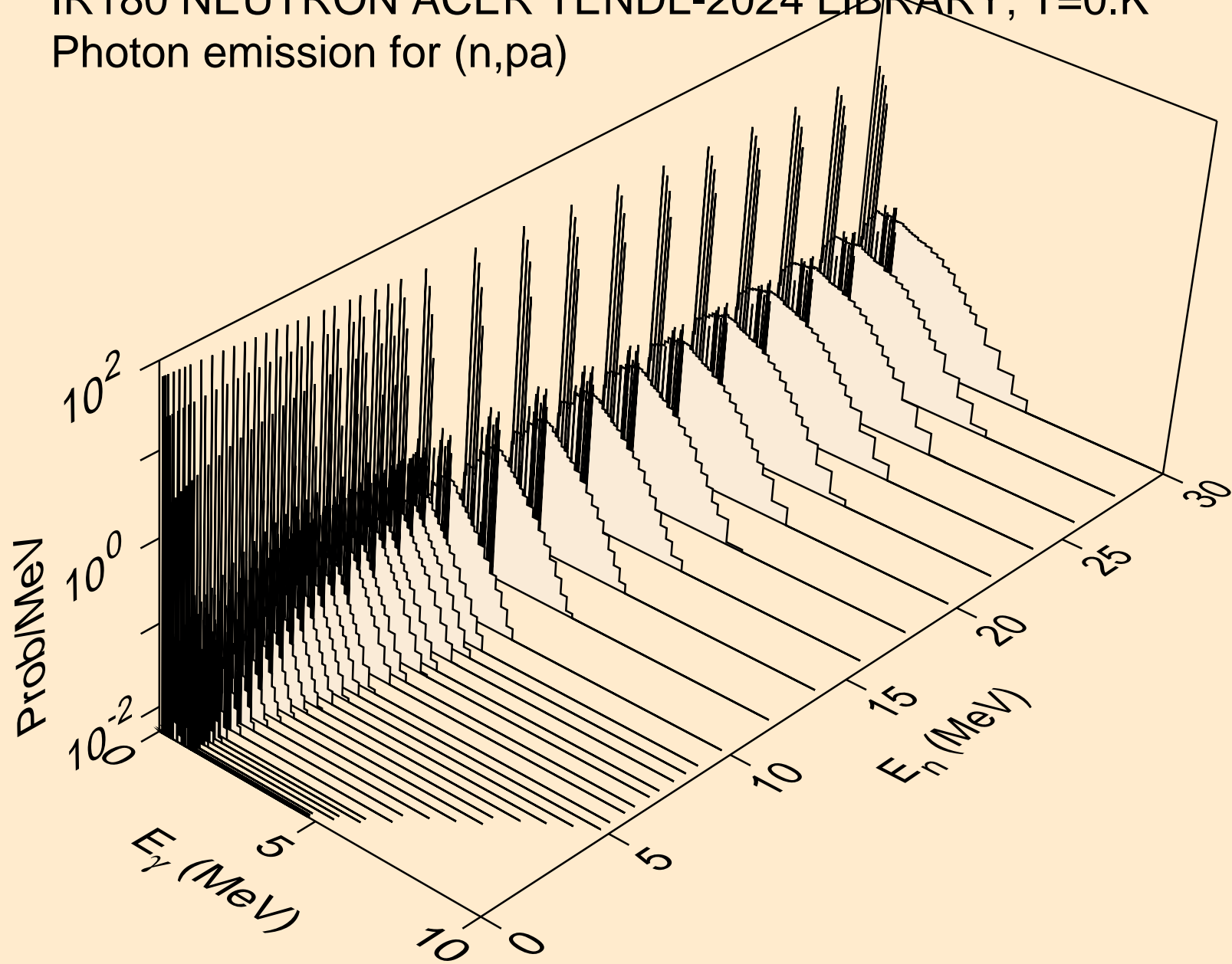
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2a)



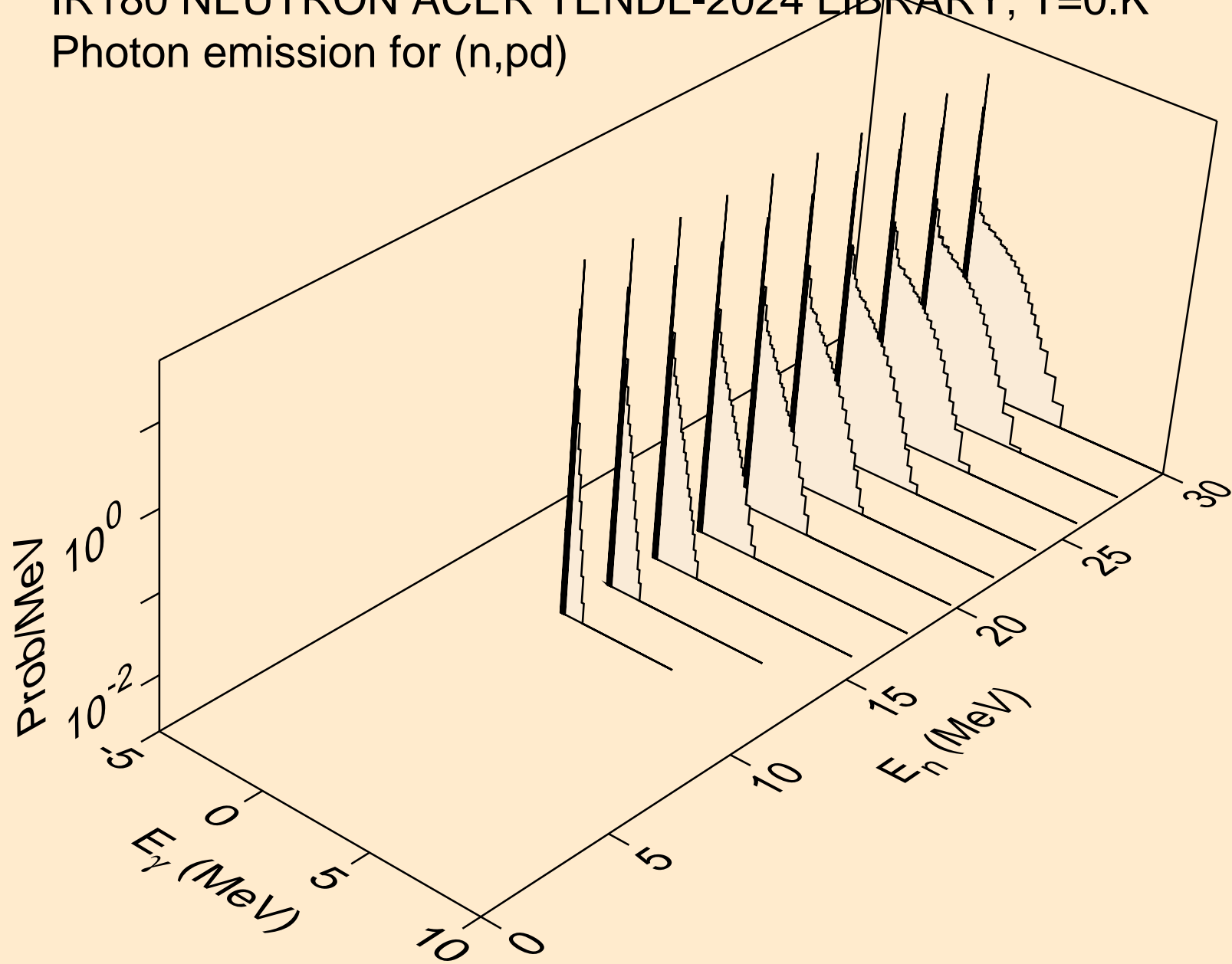
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2p)



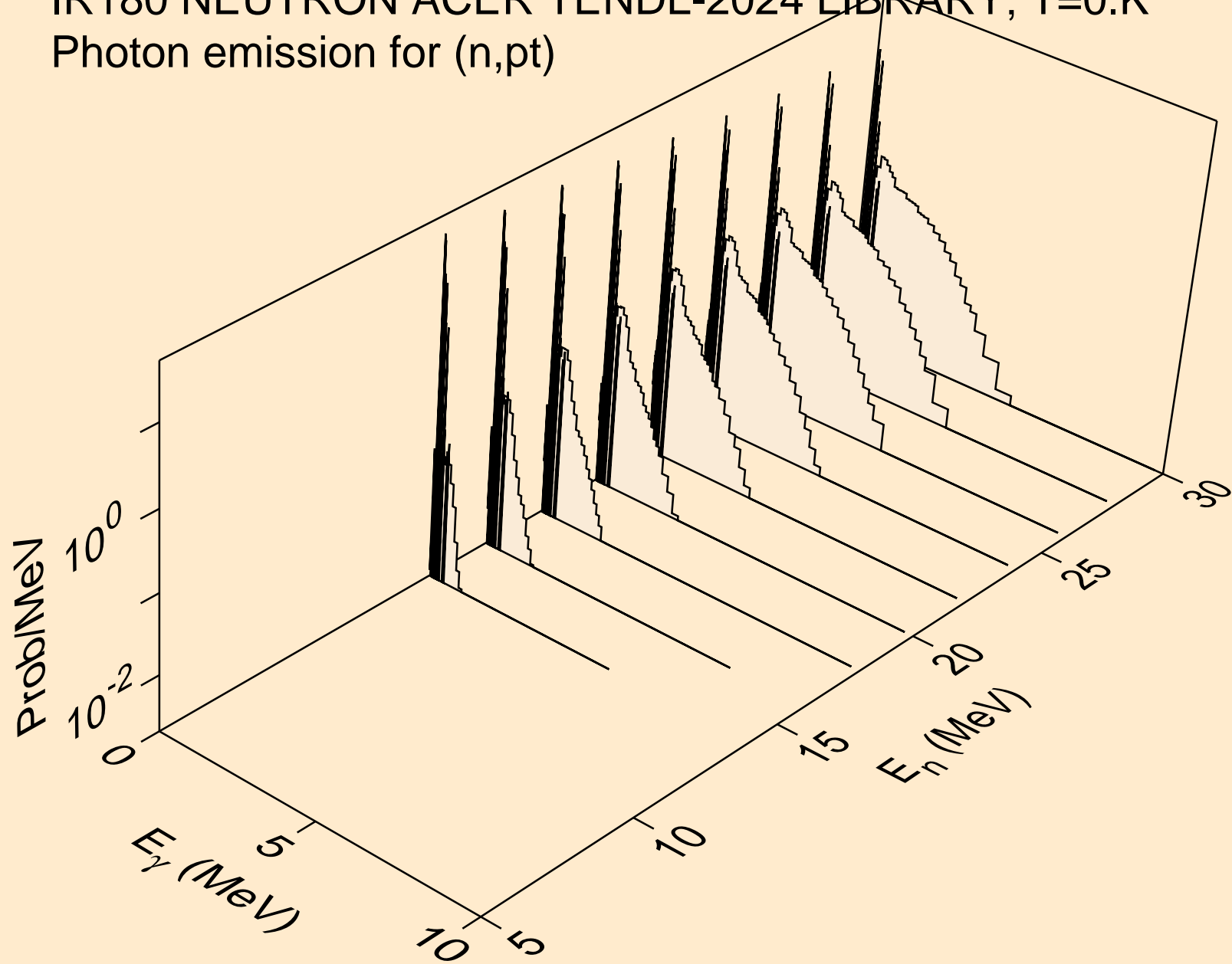
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)

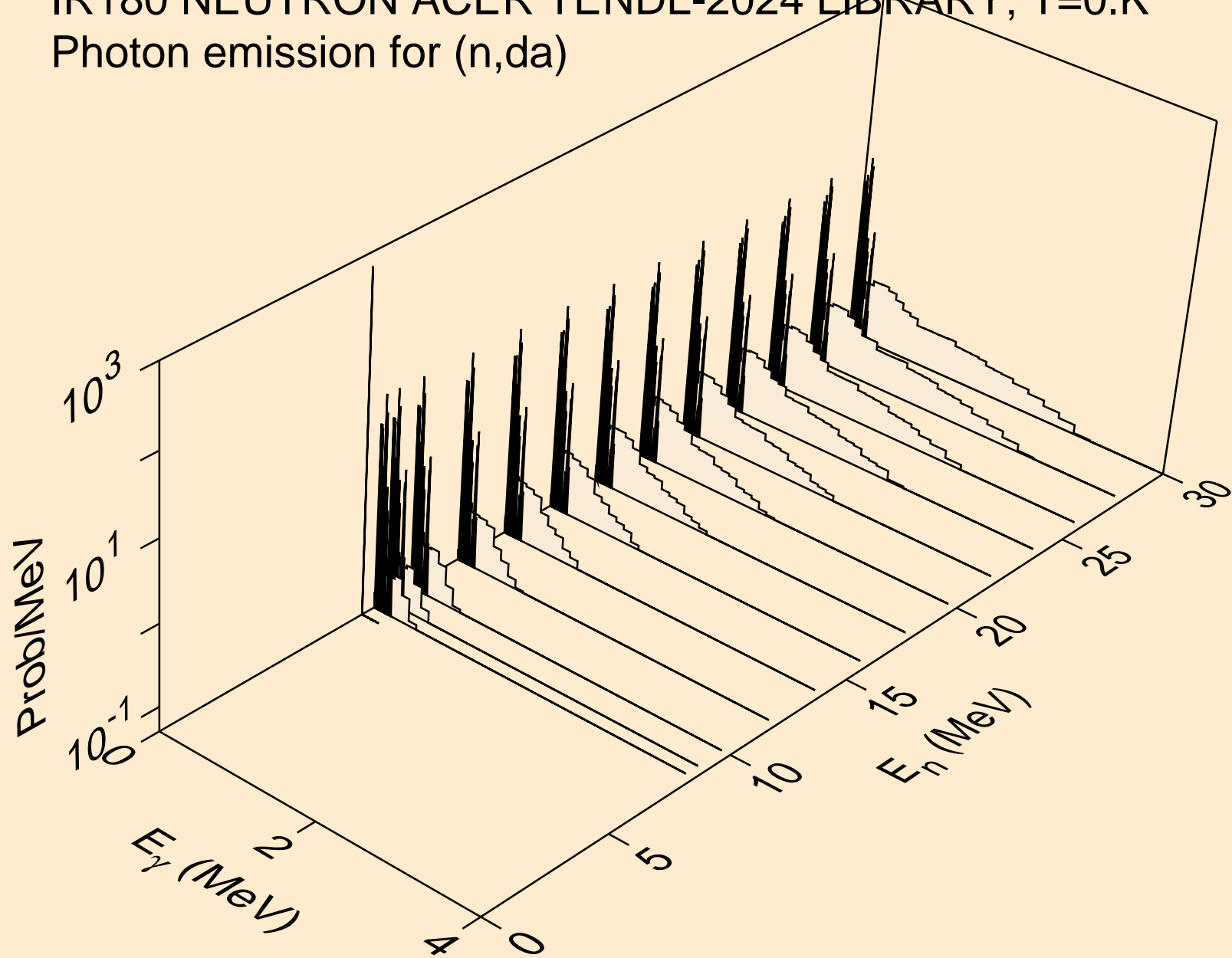


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)

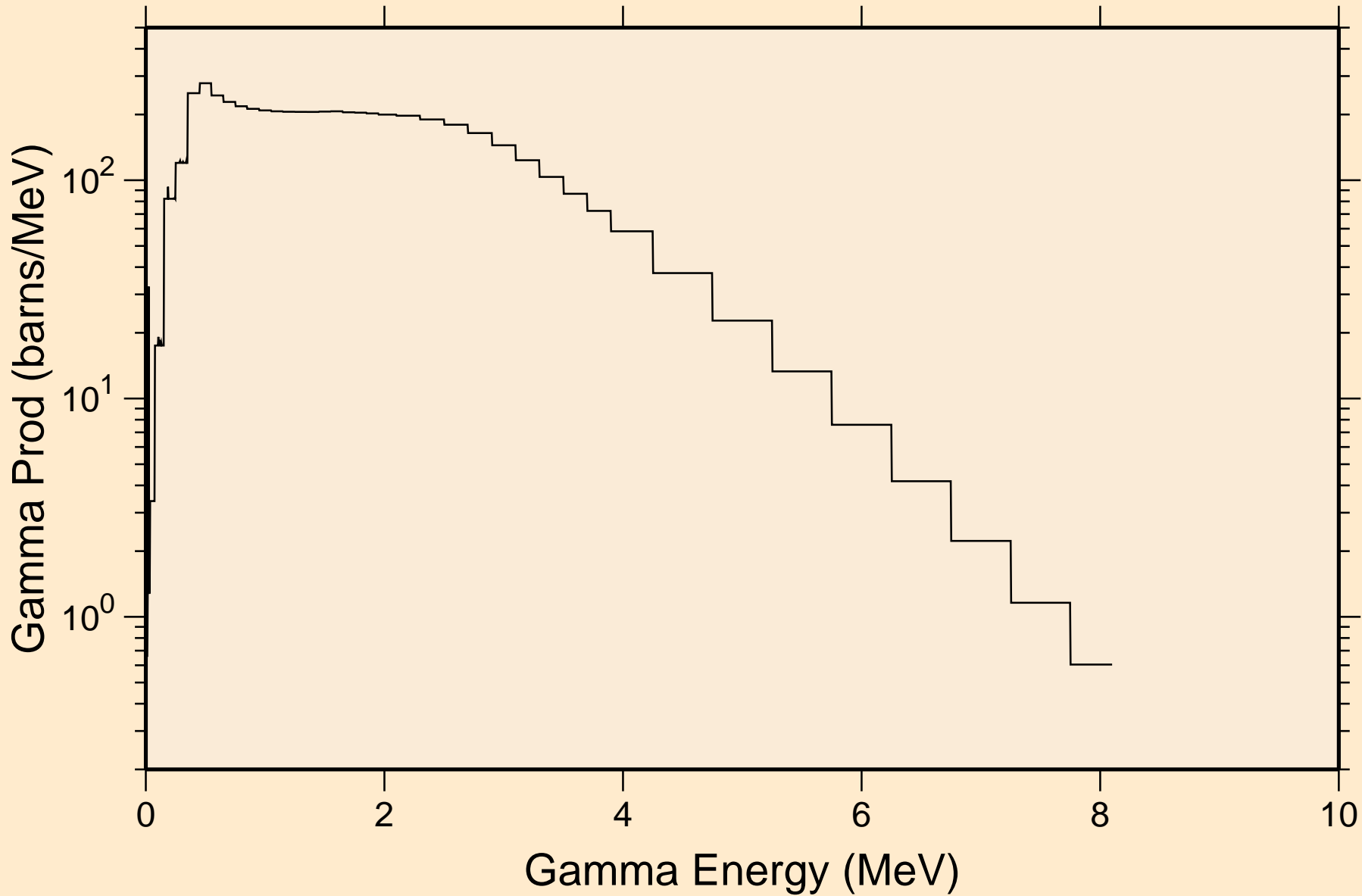




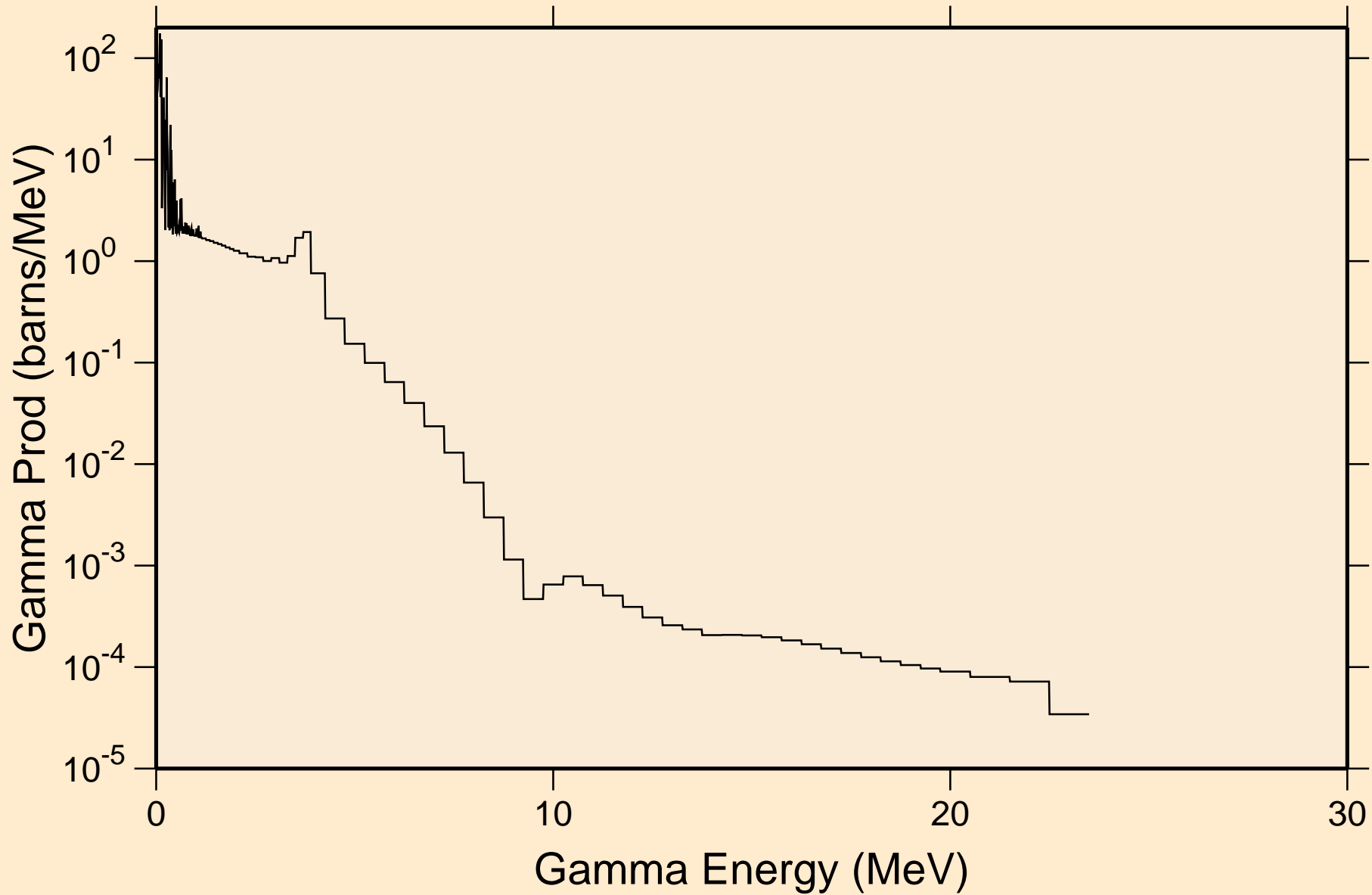
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

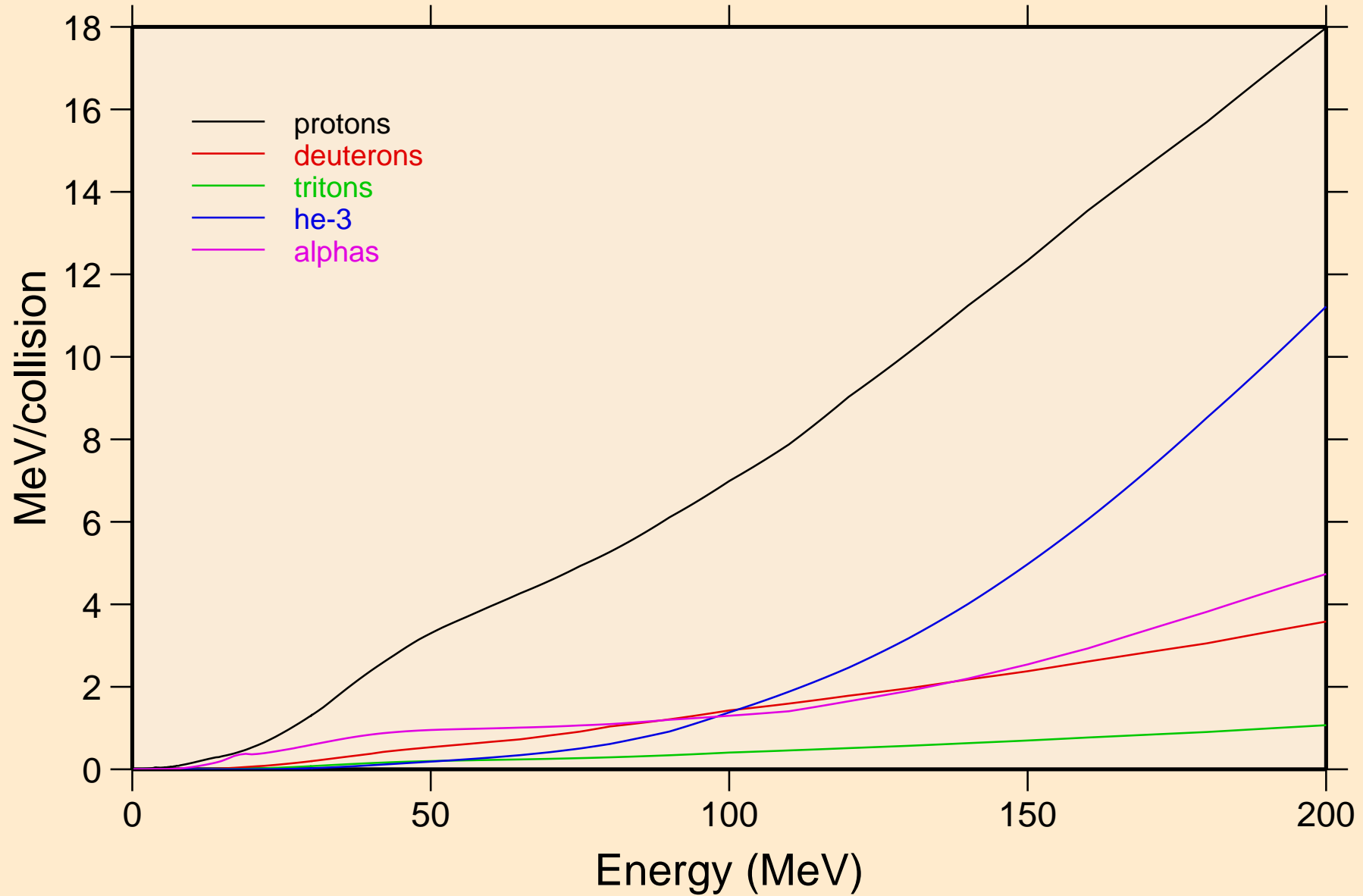


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

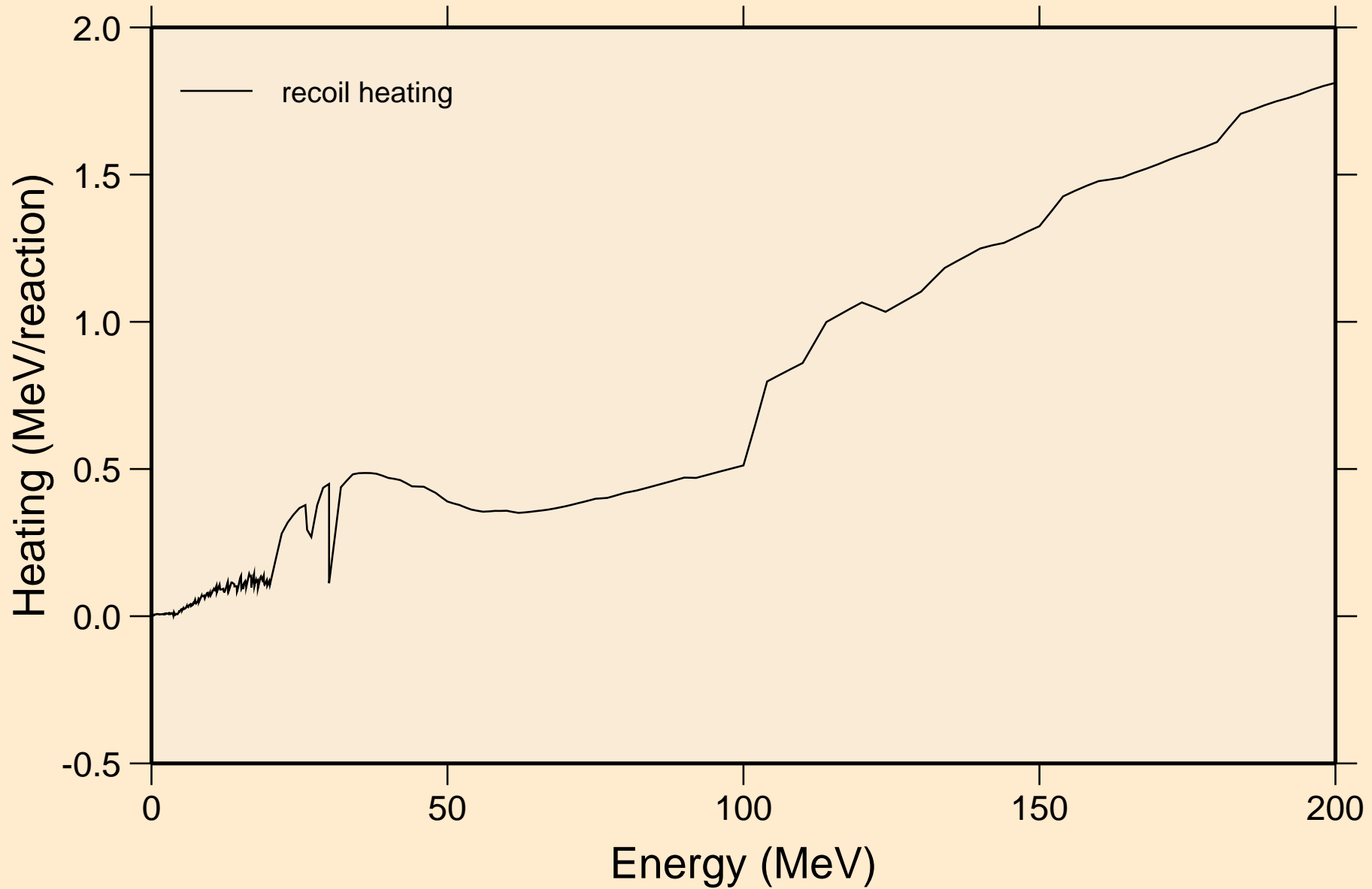


# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Particle heating contributions

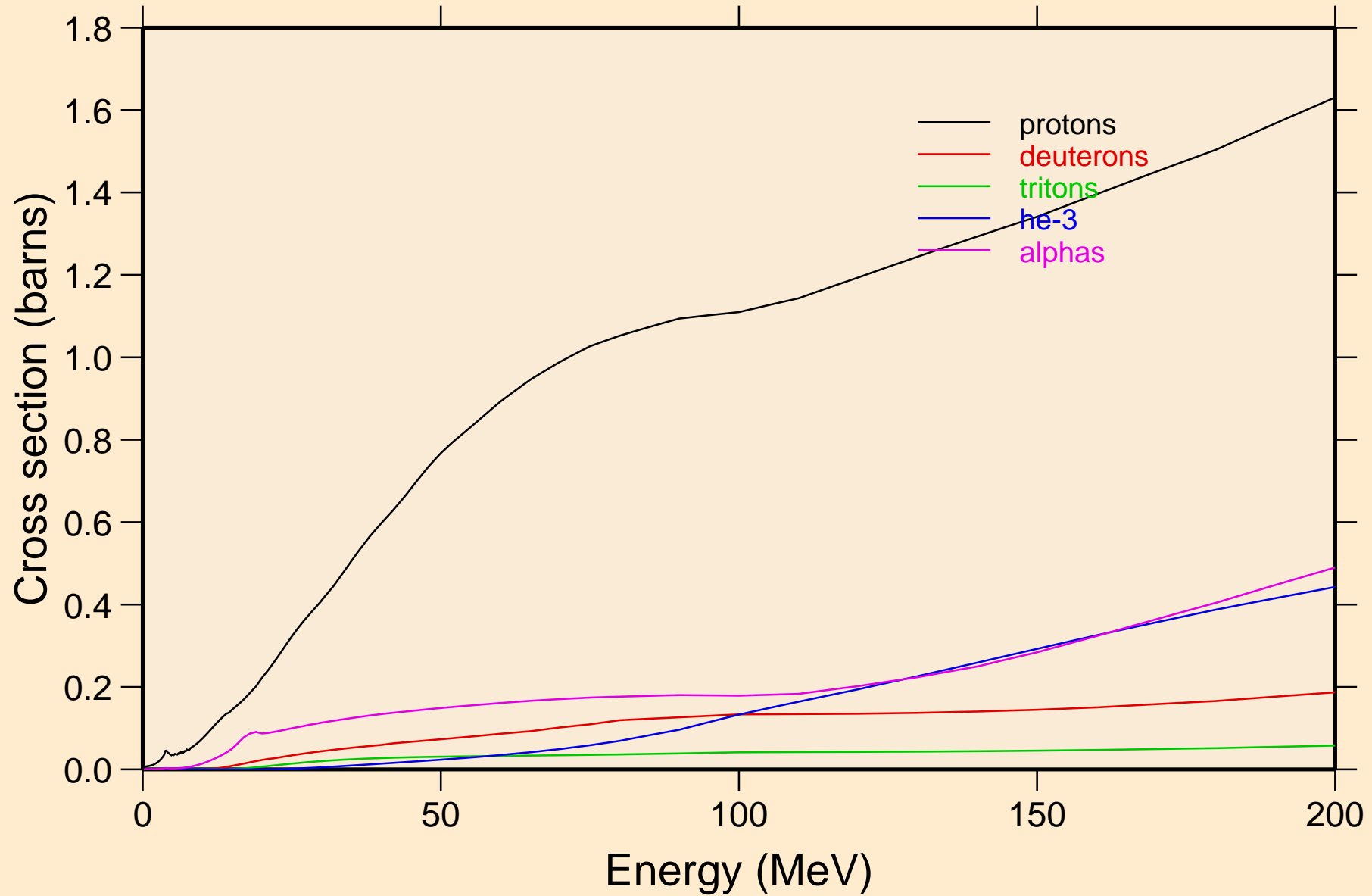


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Recoil Heating

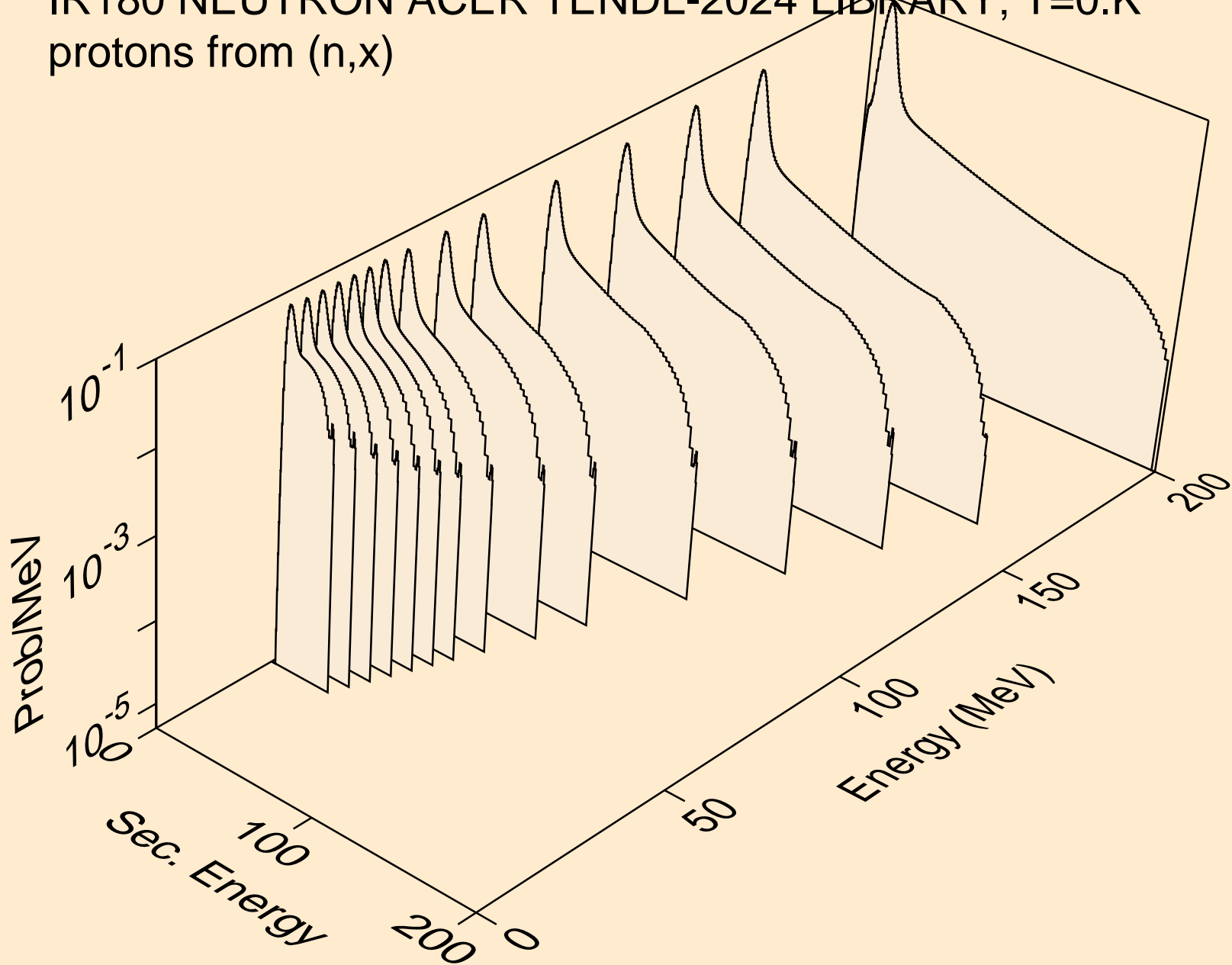


# IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

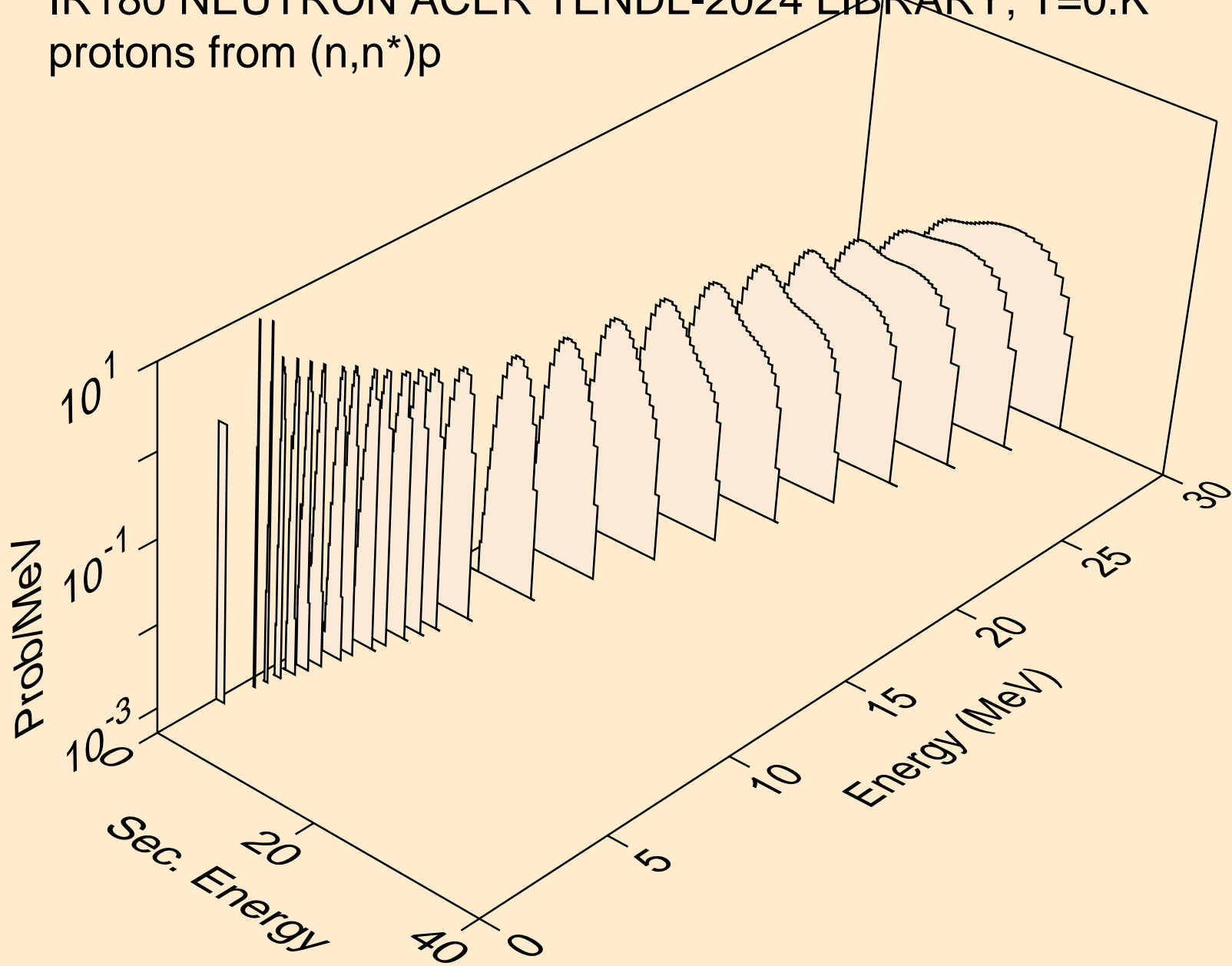
## Particle production cross sections



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)

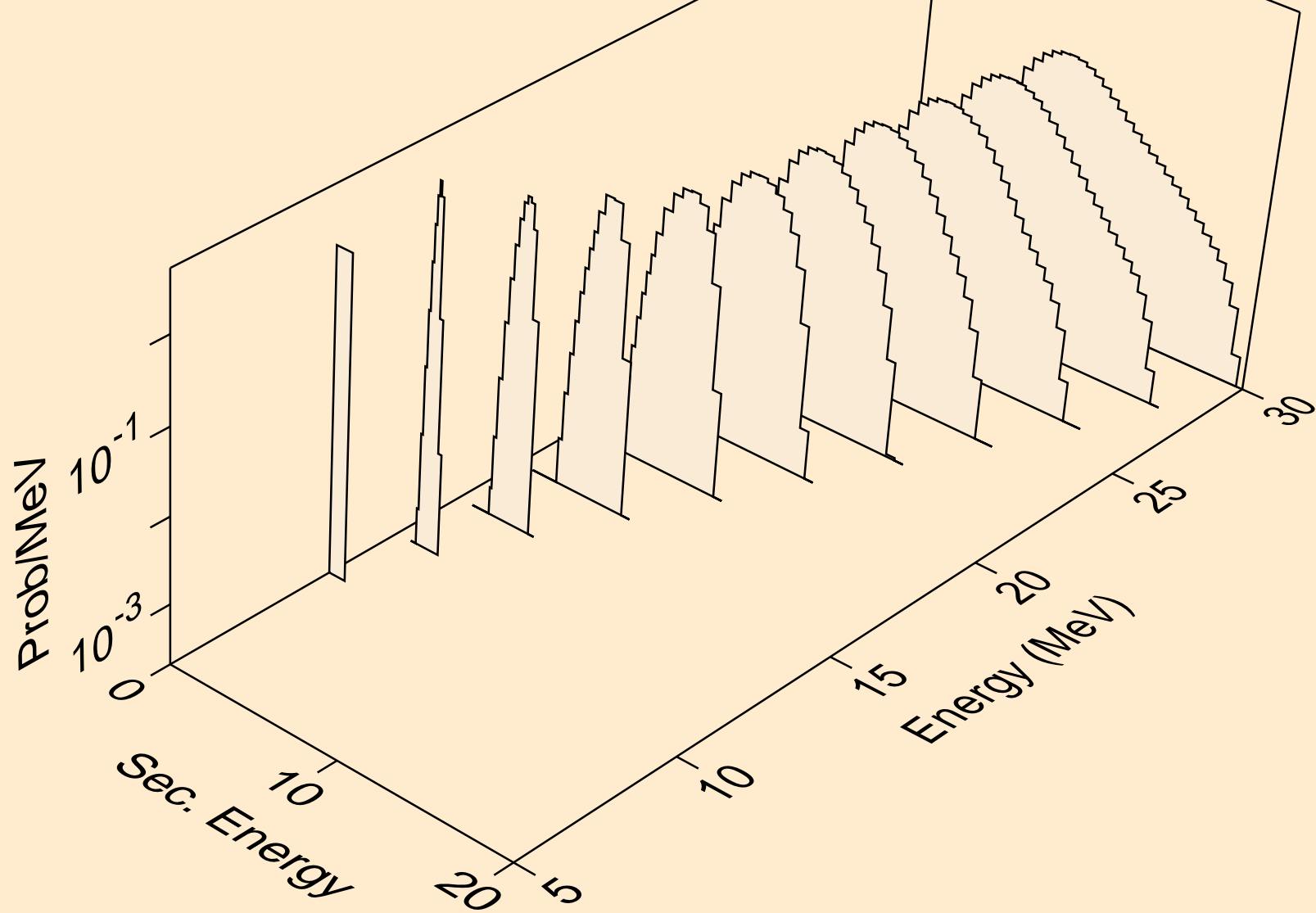


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n\*)p

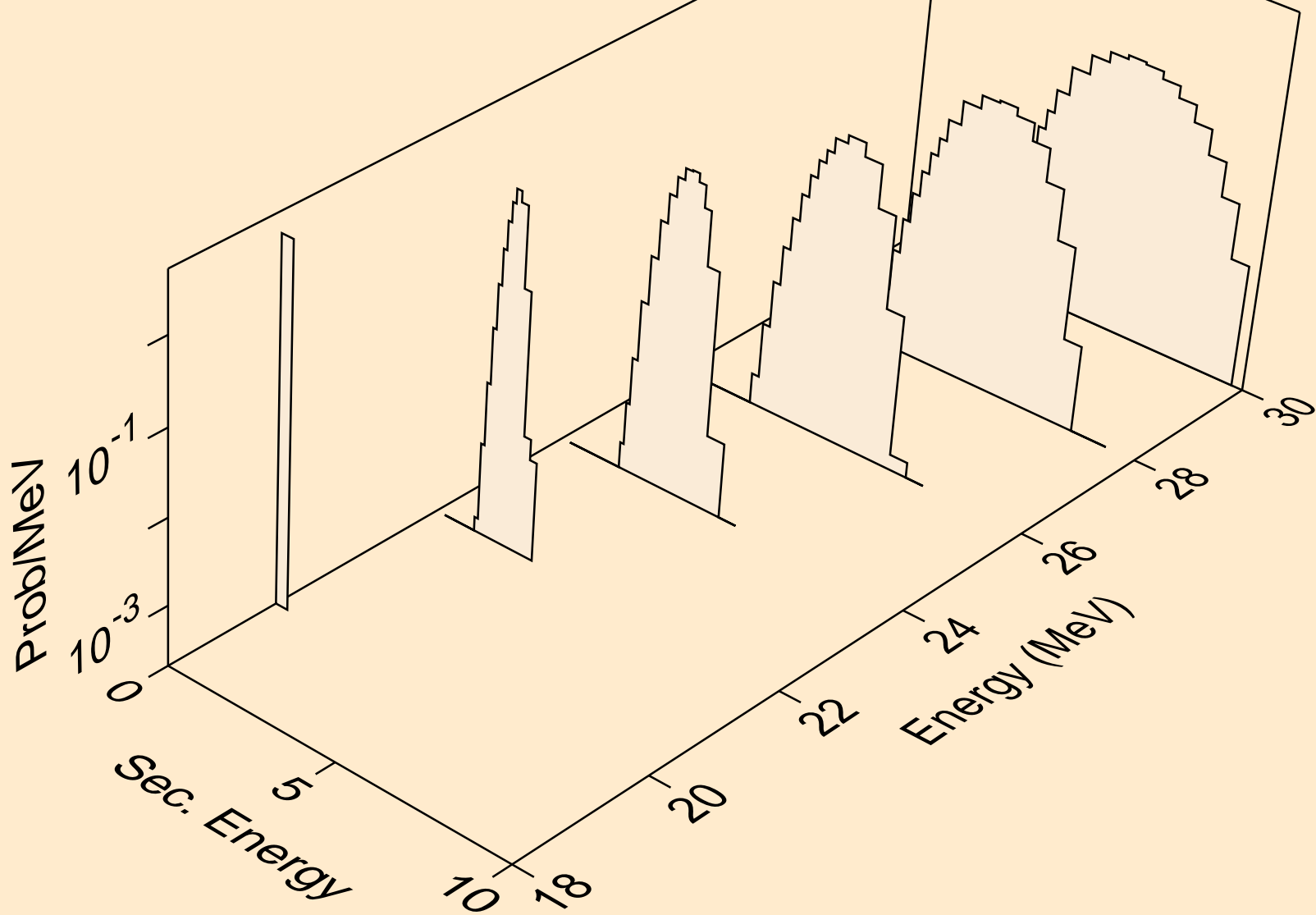




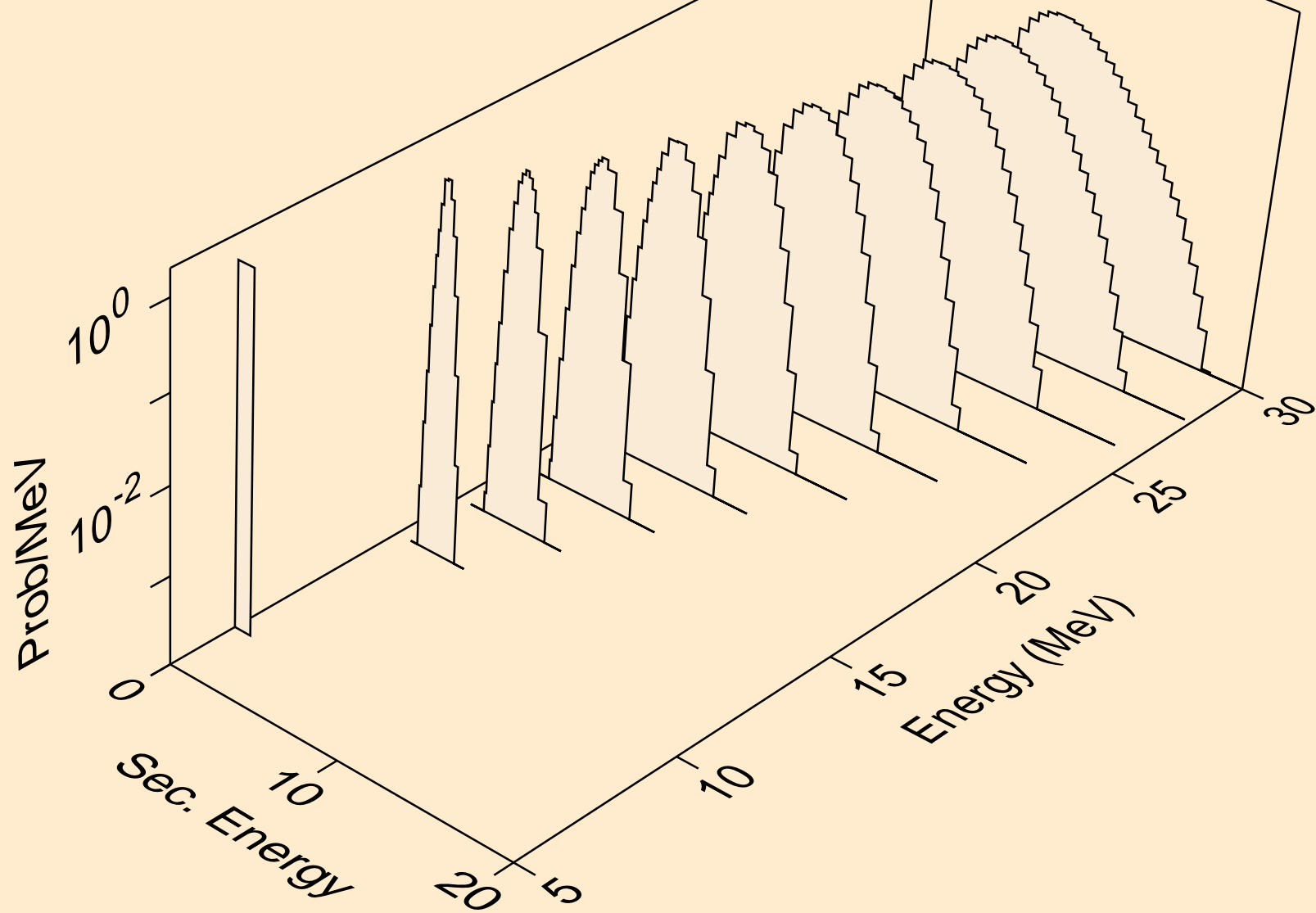
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,2np)



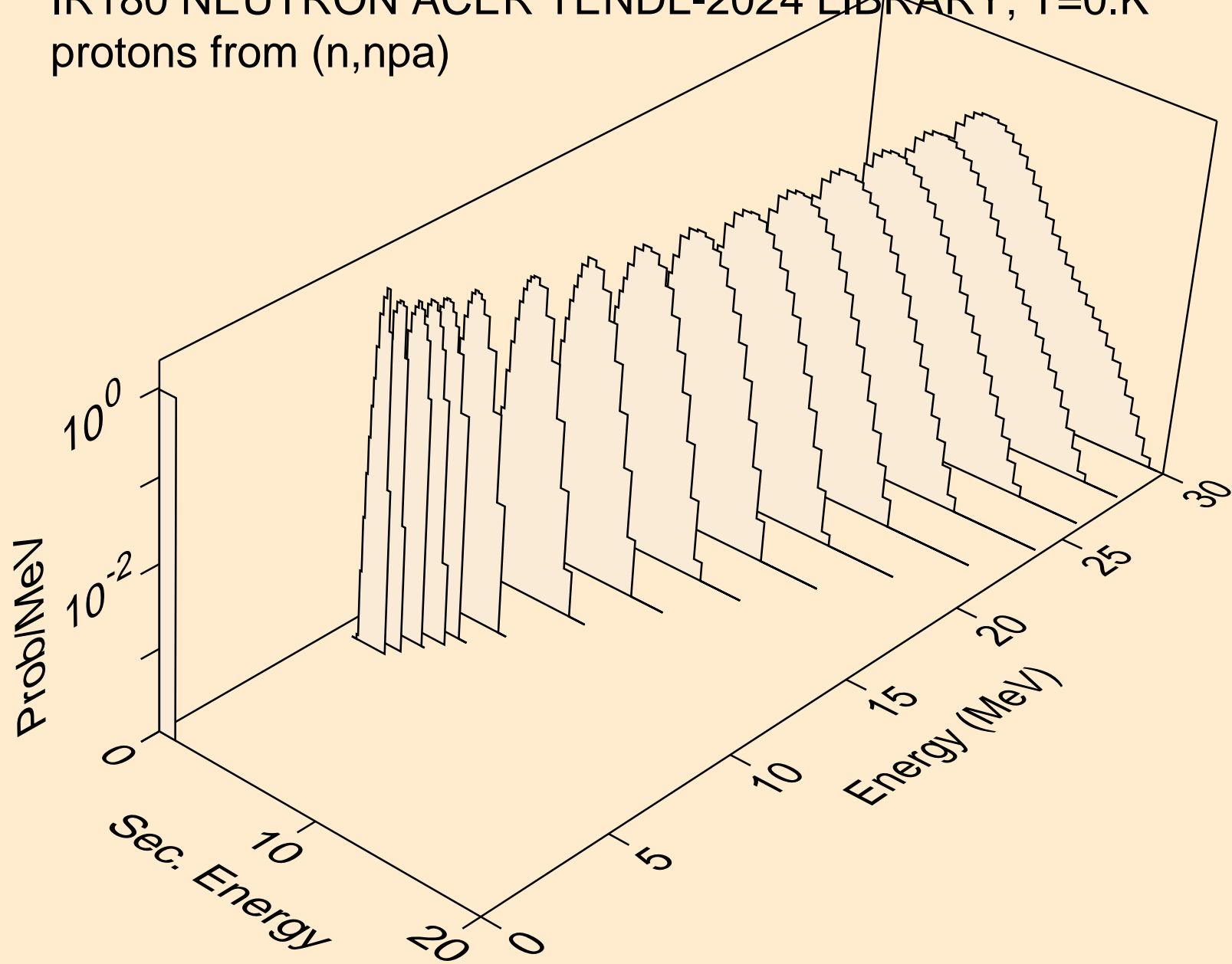
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,3np)



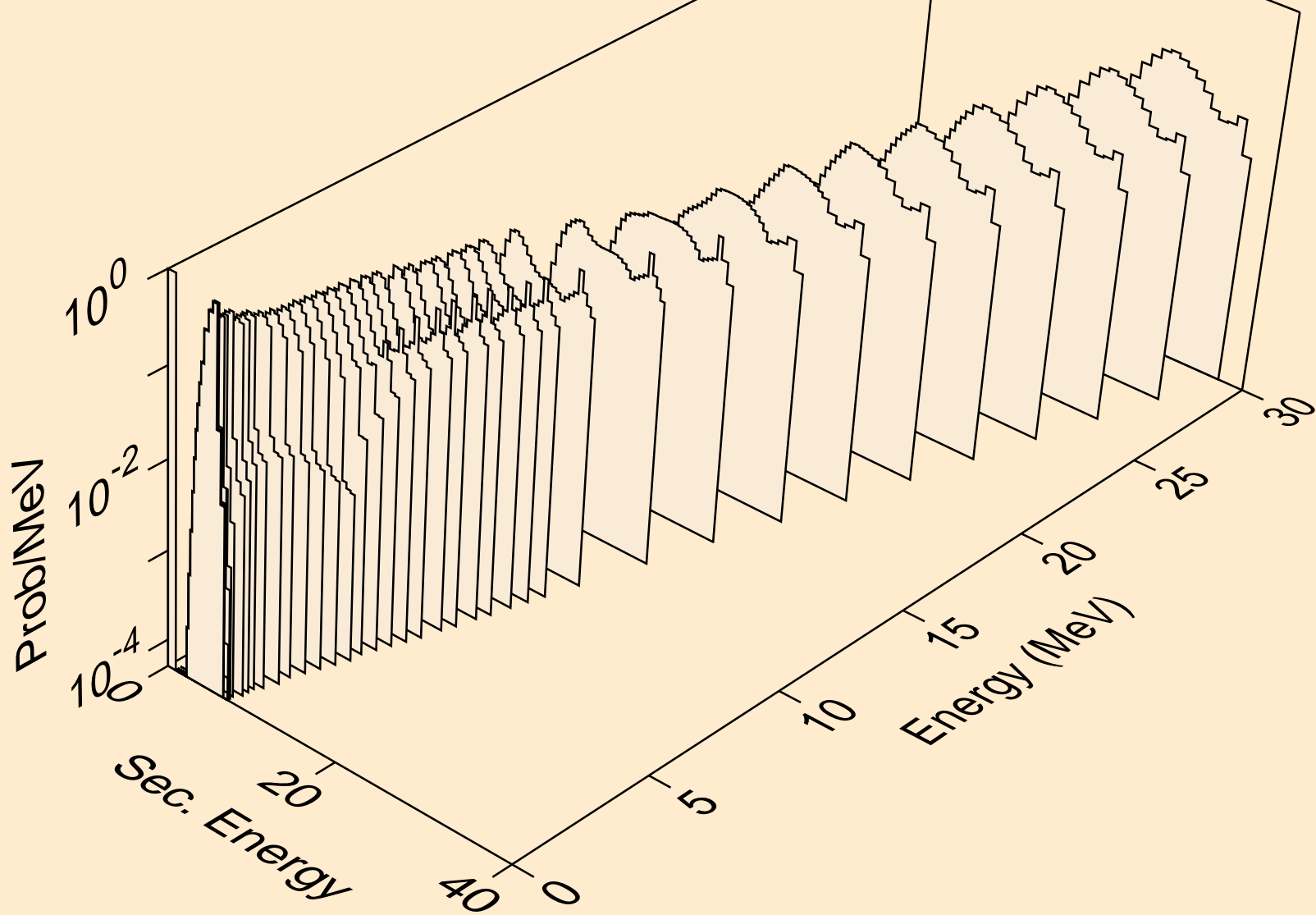
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protons from (n,n2p)



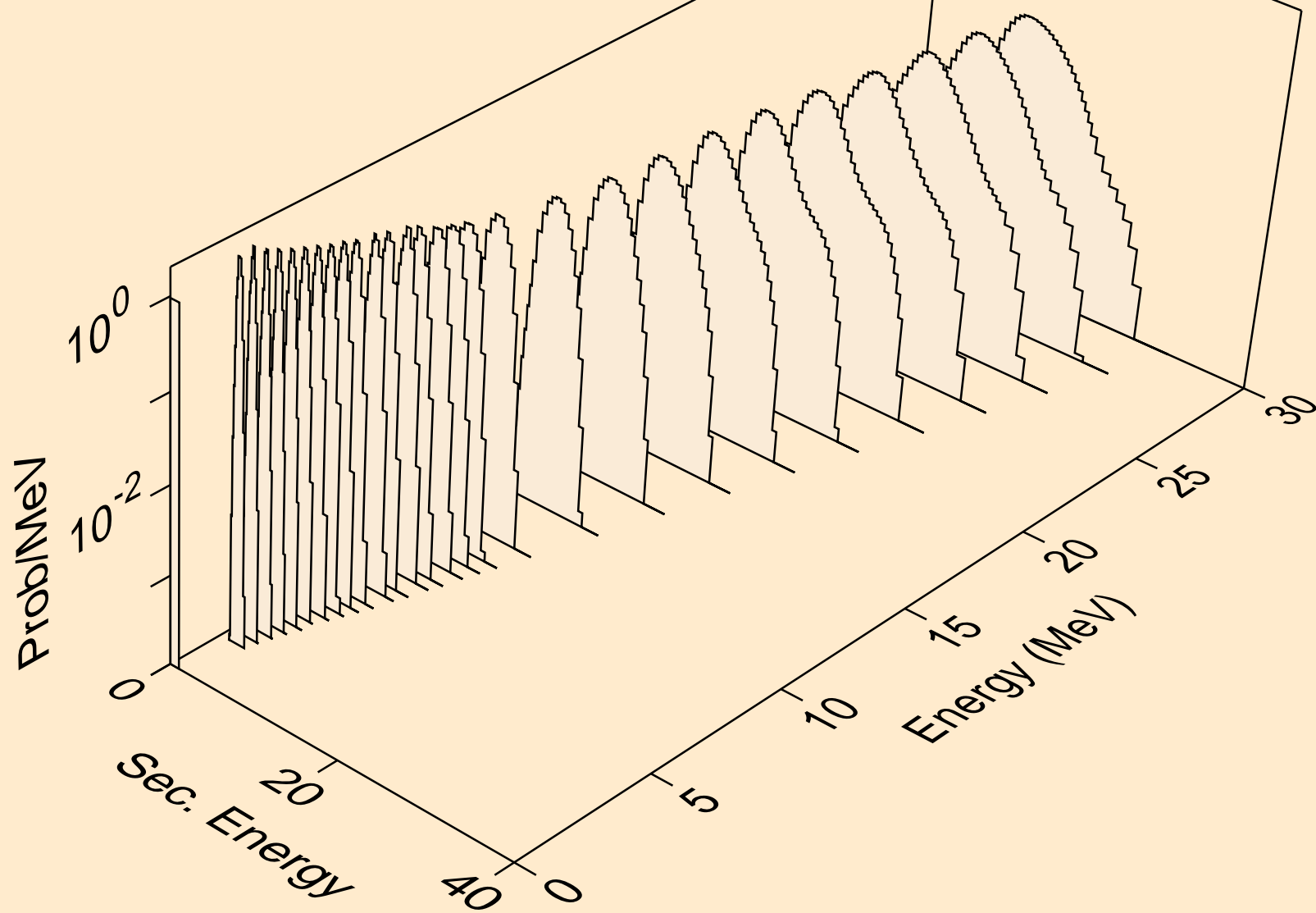
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protons from (n,npa)



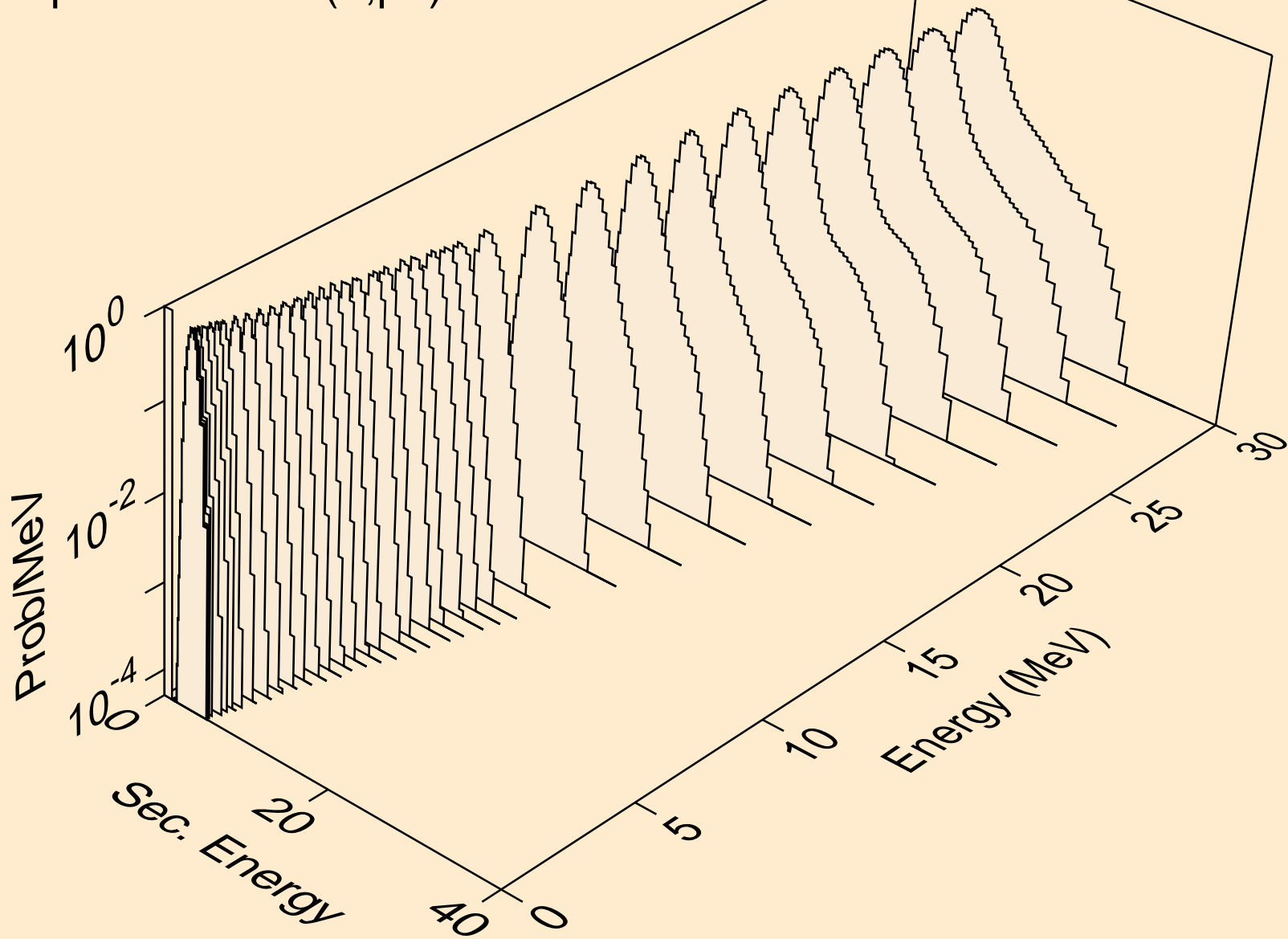
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protons from (n,p)



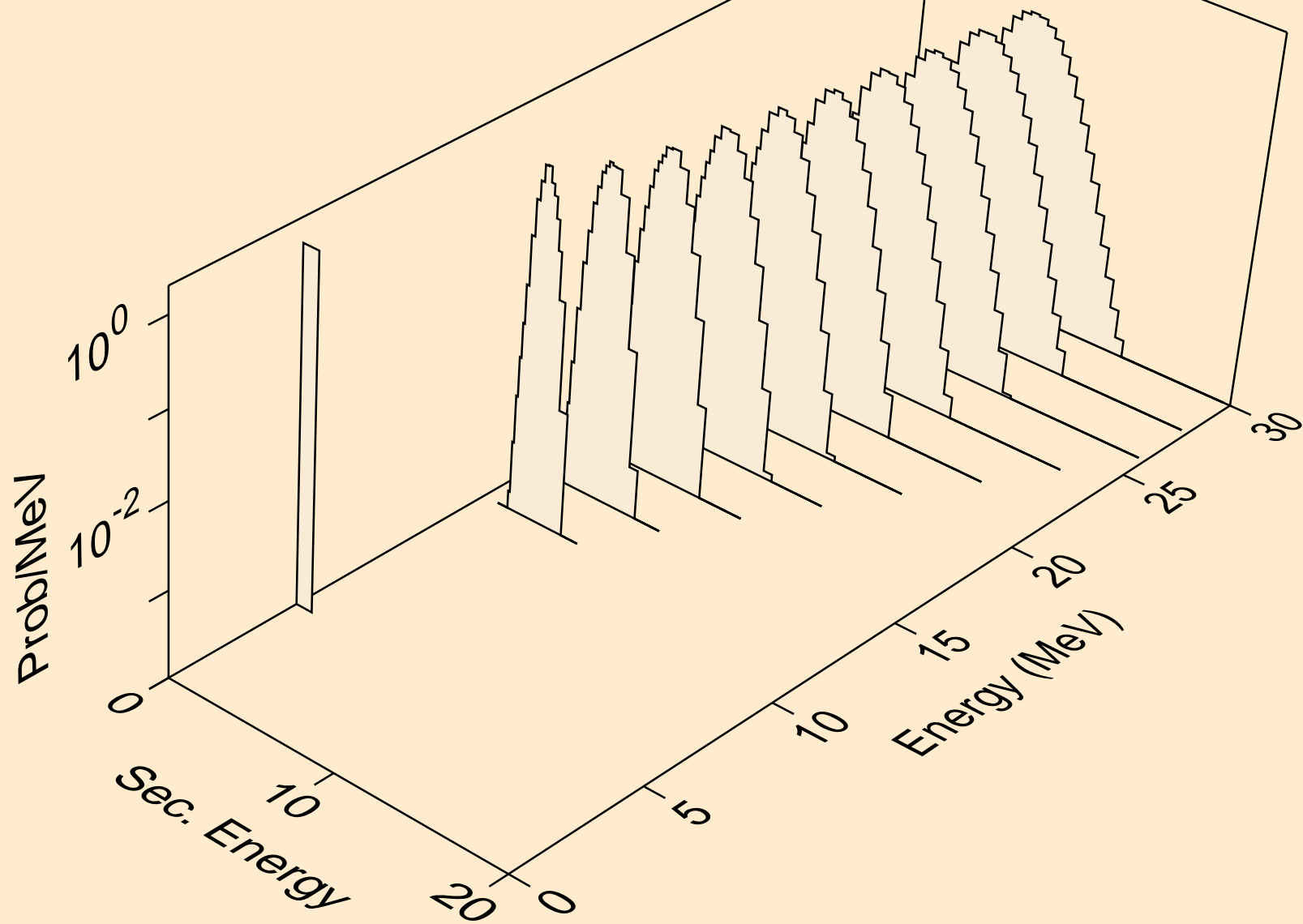
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,2p)



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,p)

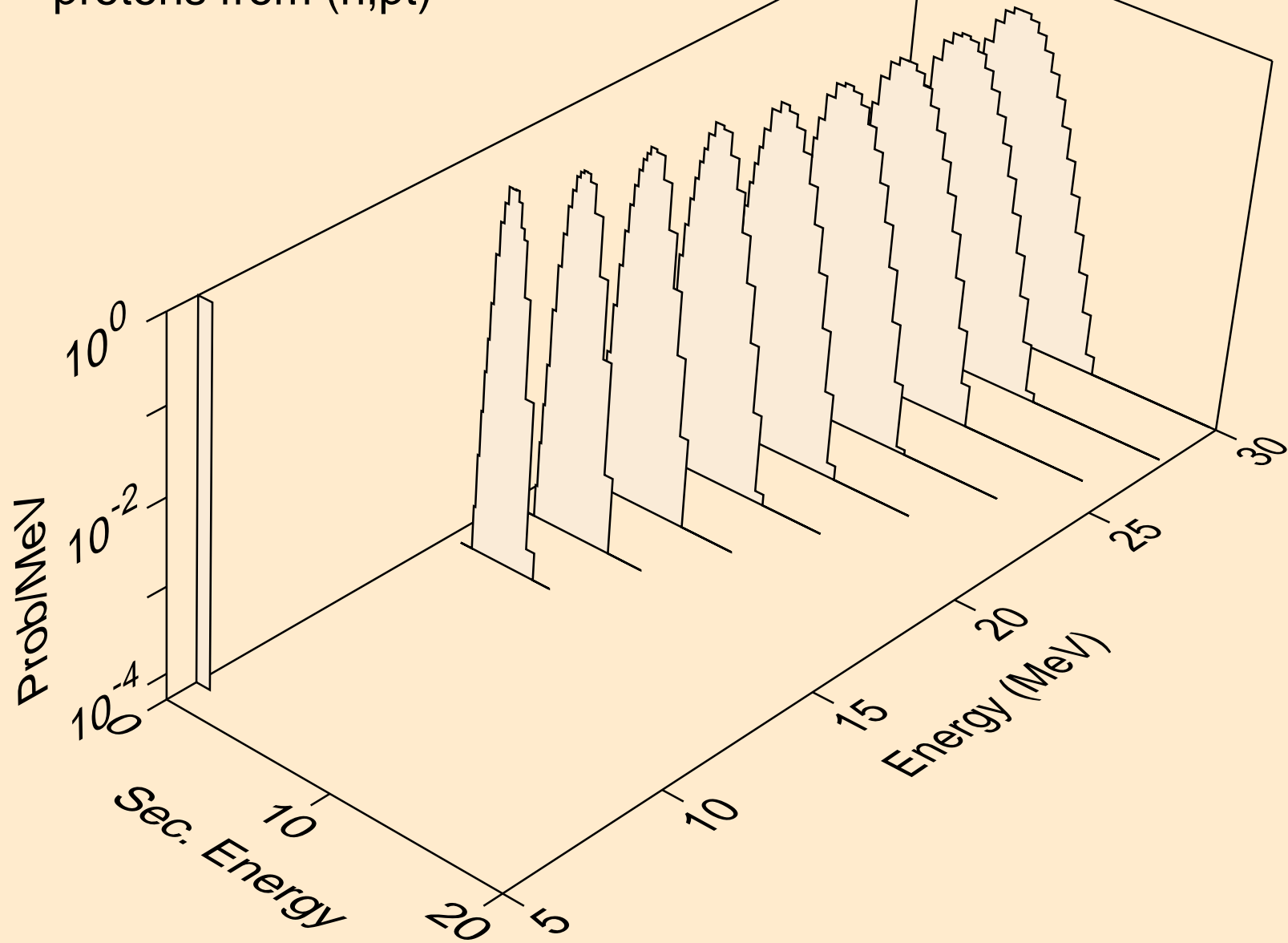


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,pd)

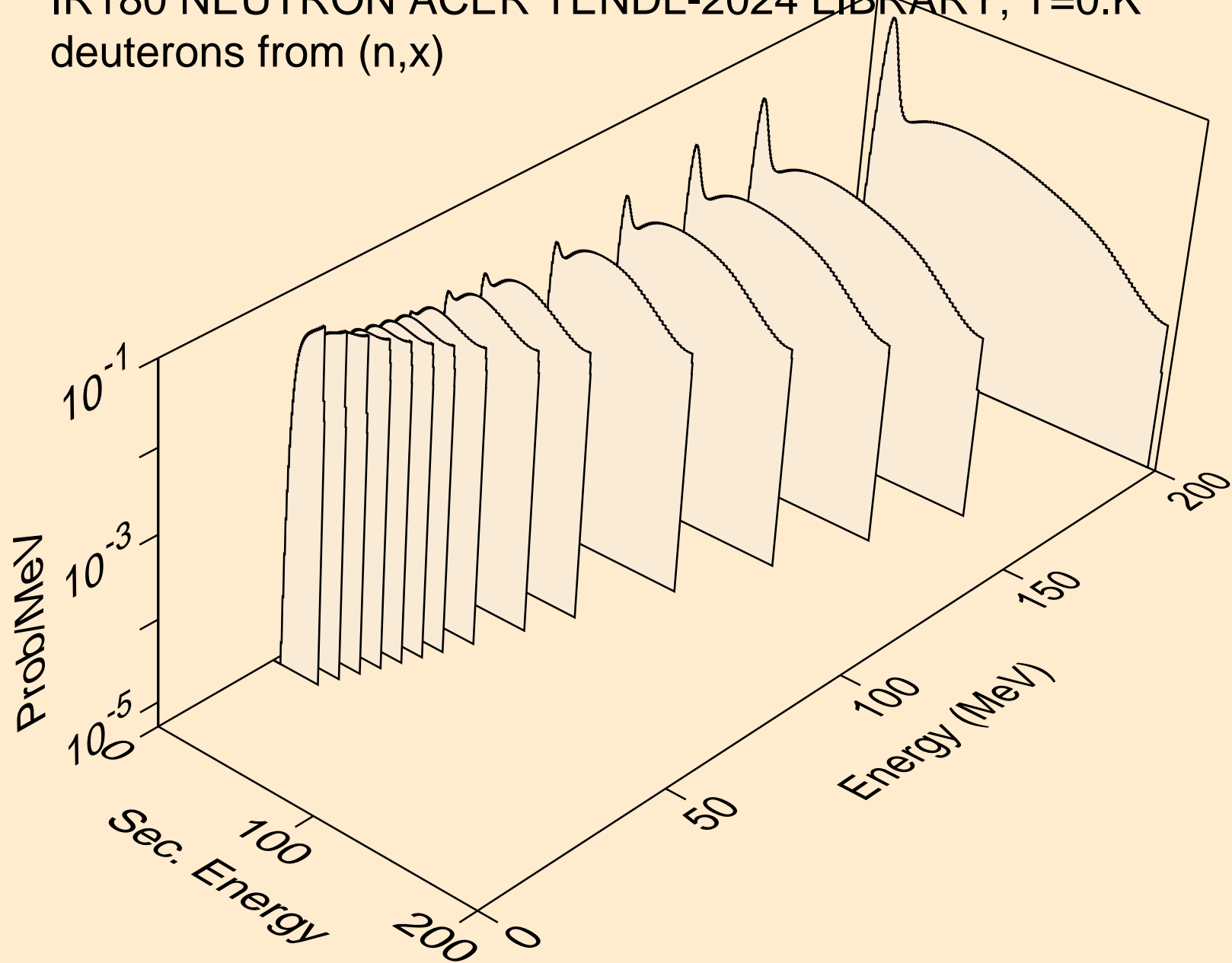




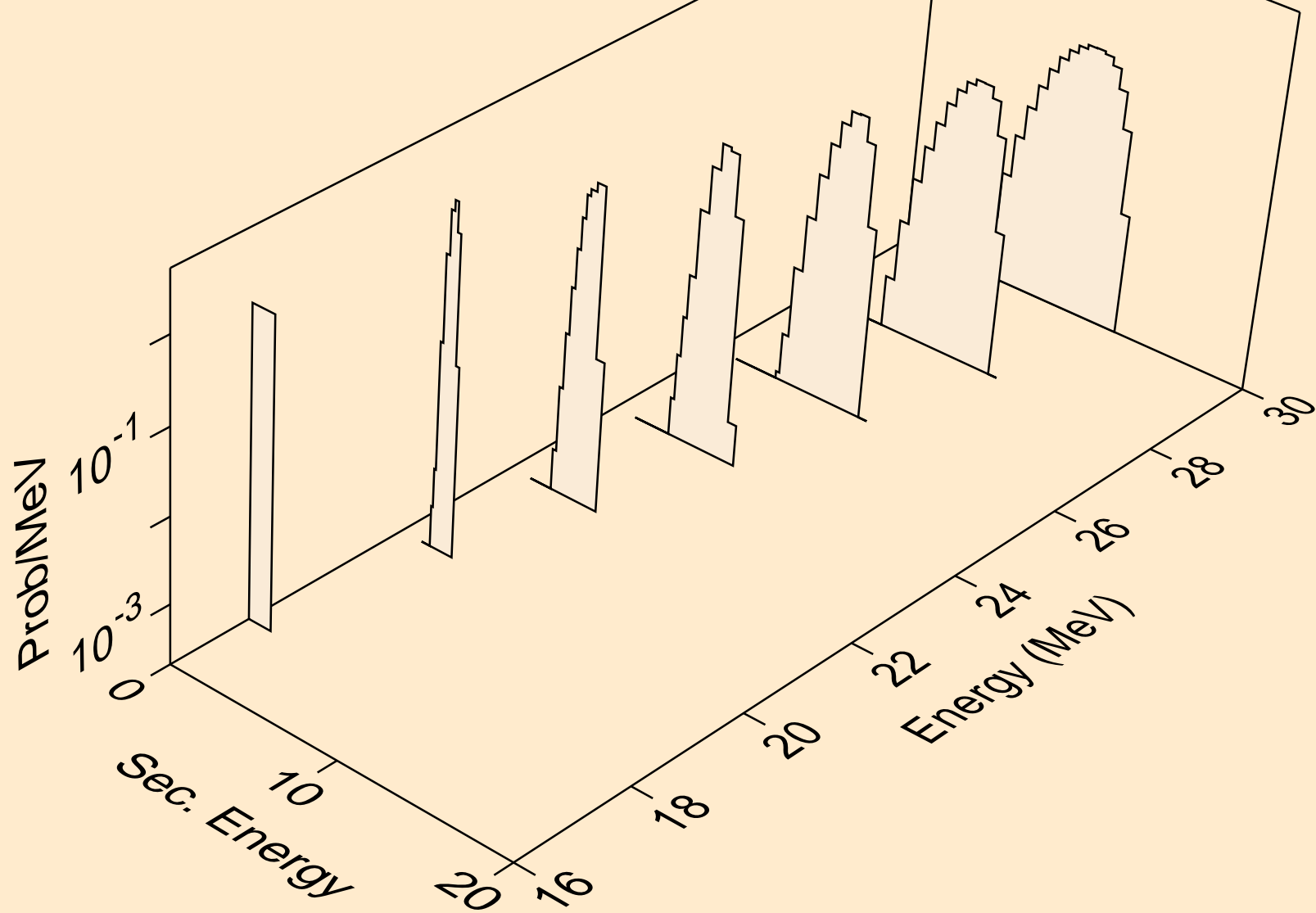
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,pt)



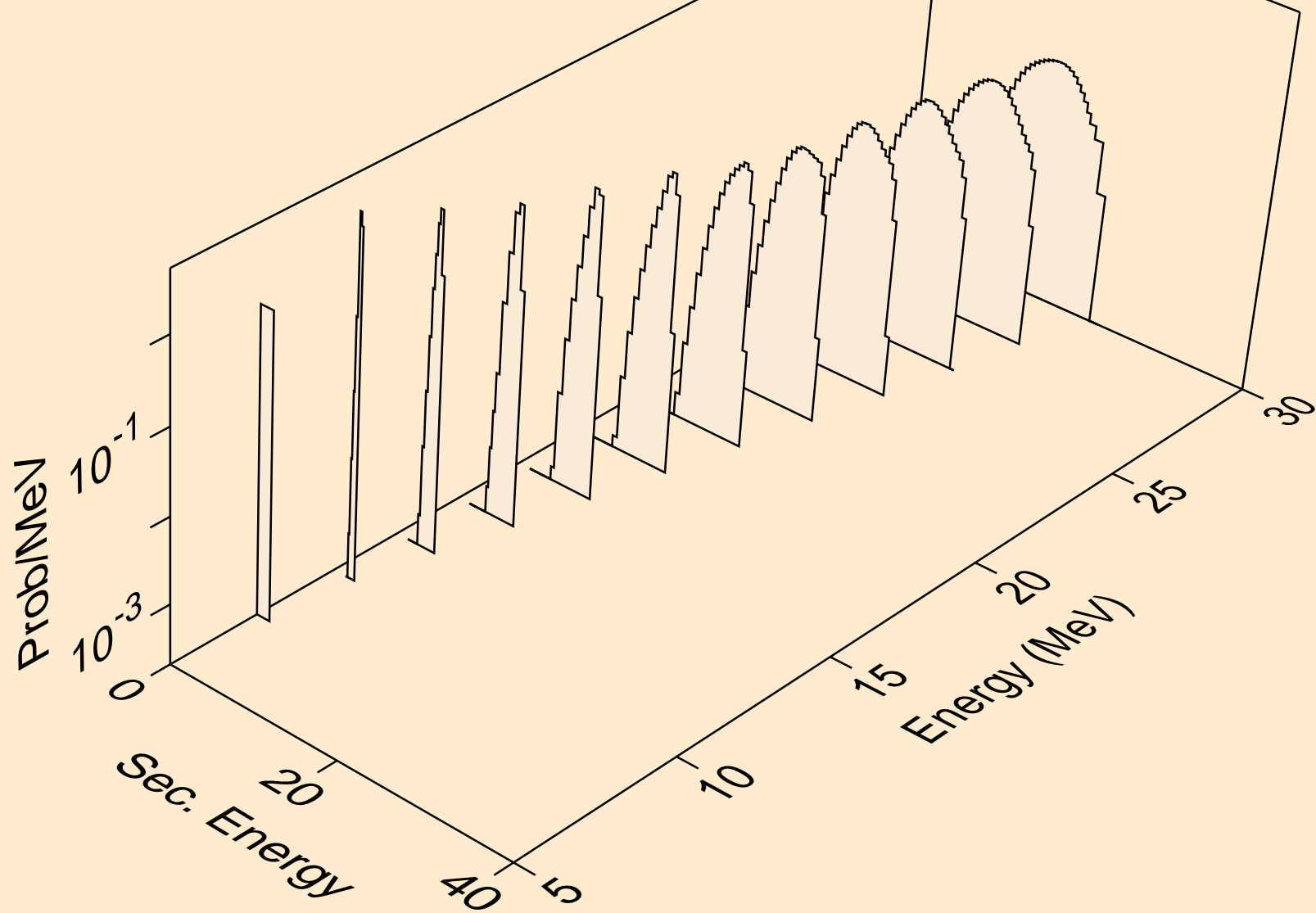
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,x)



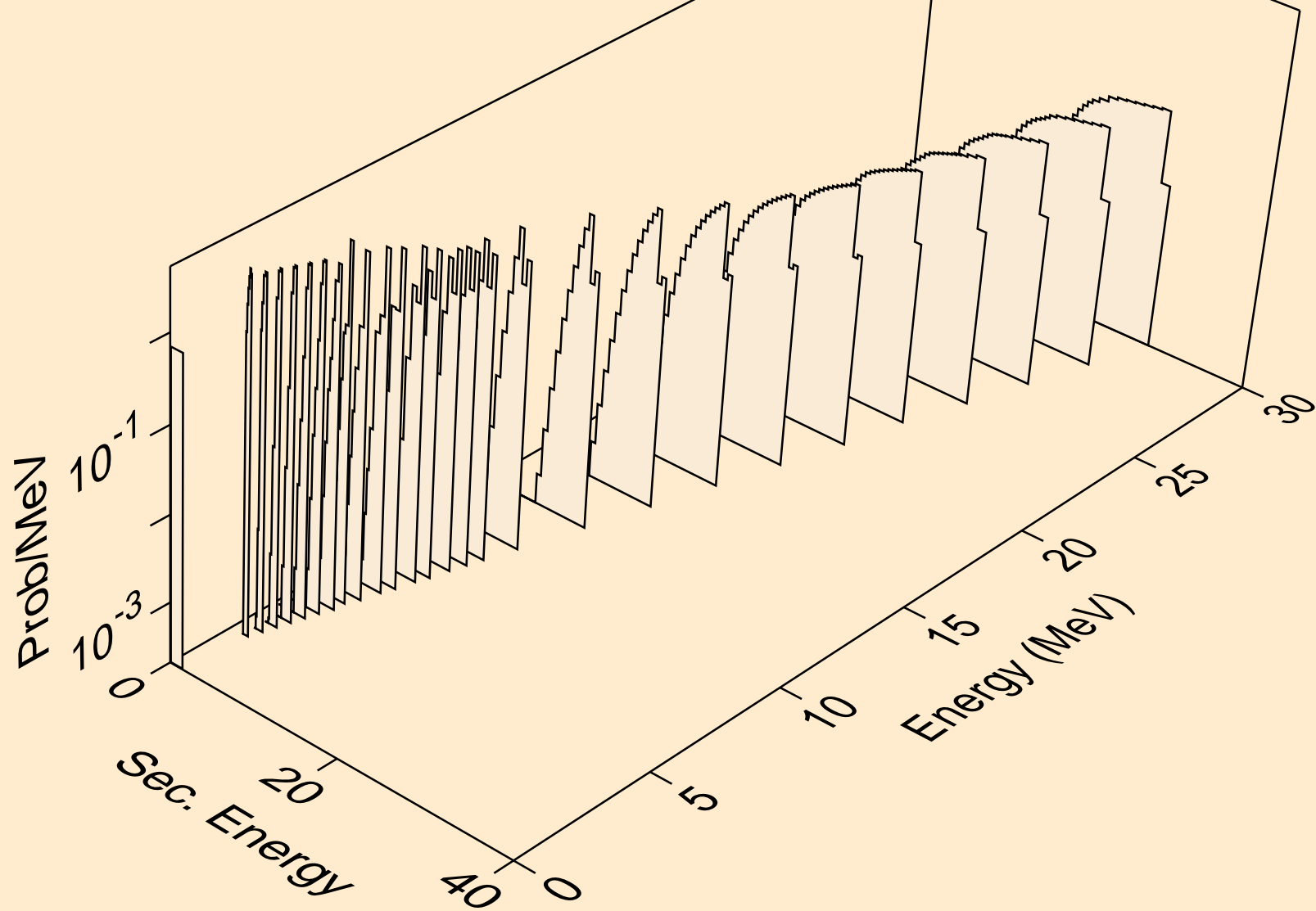
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deuterons from (n,2nd)



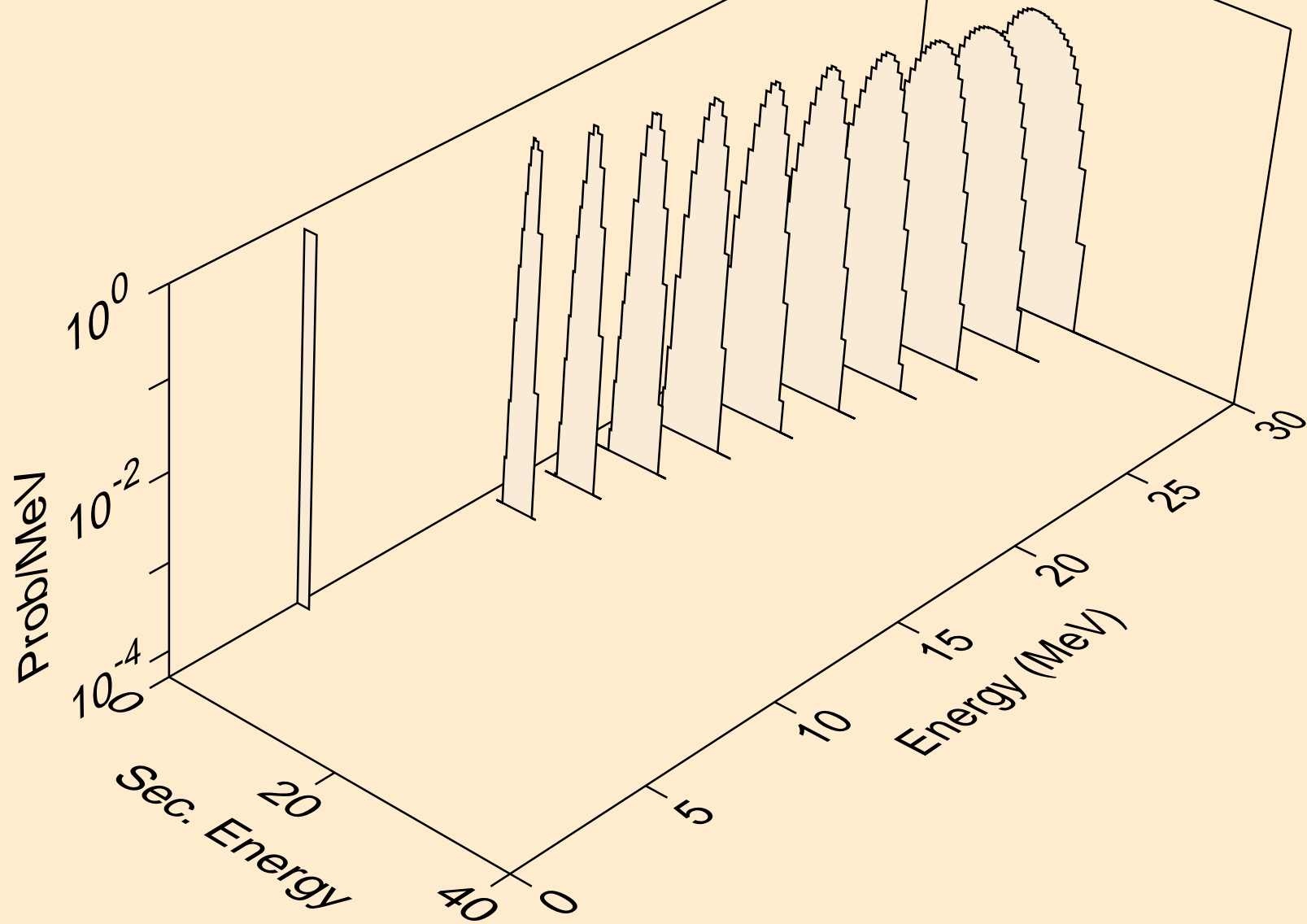
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,n\*)d



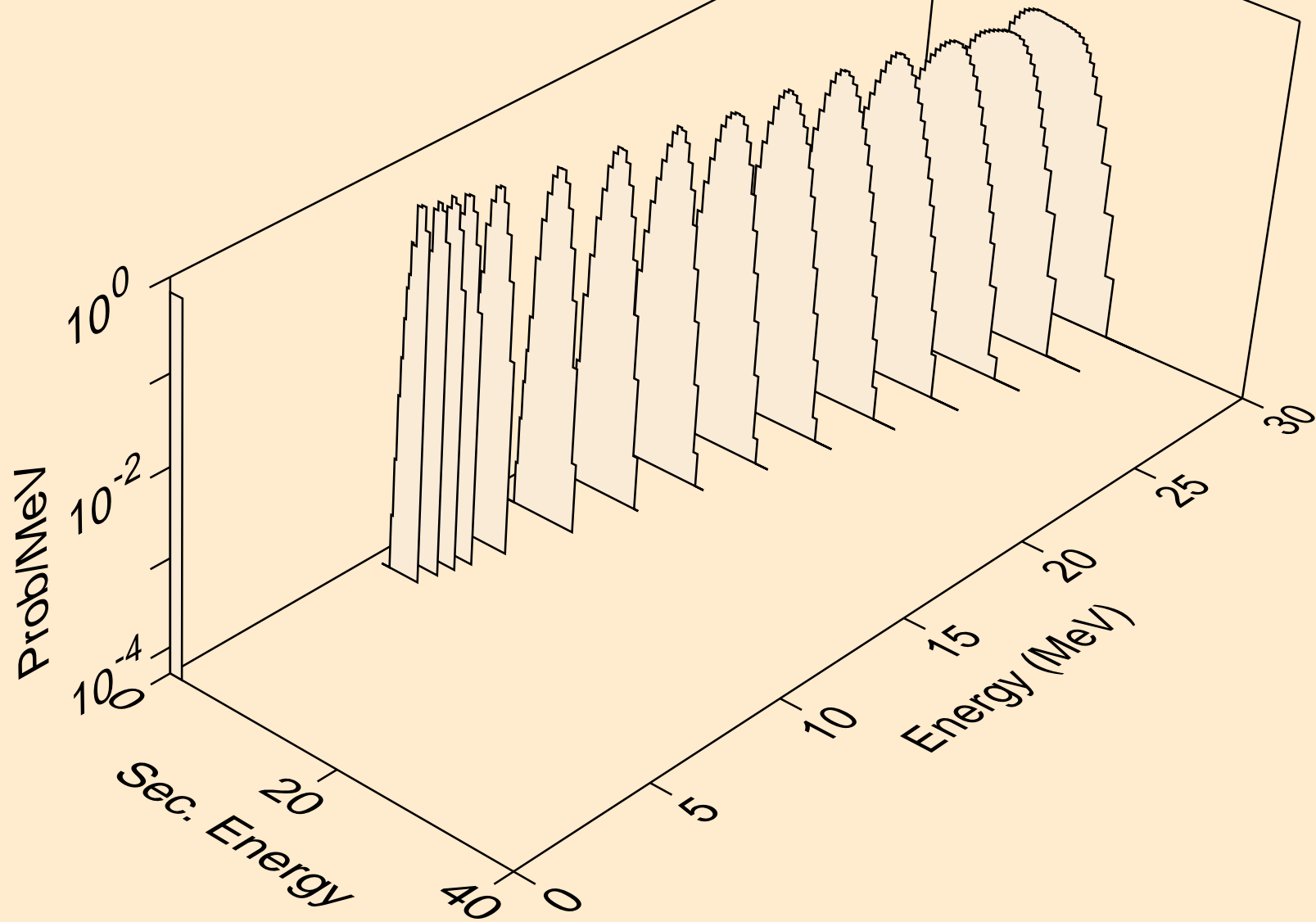
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deuterons from (n,d)



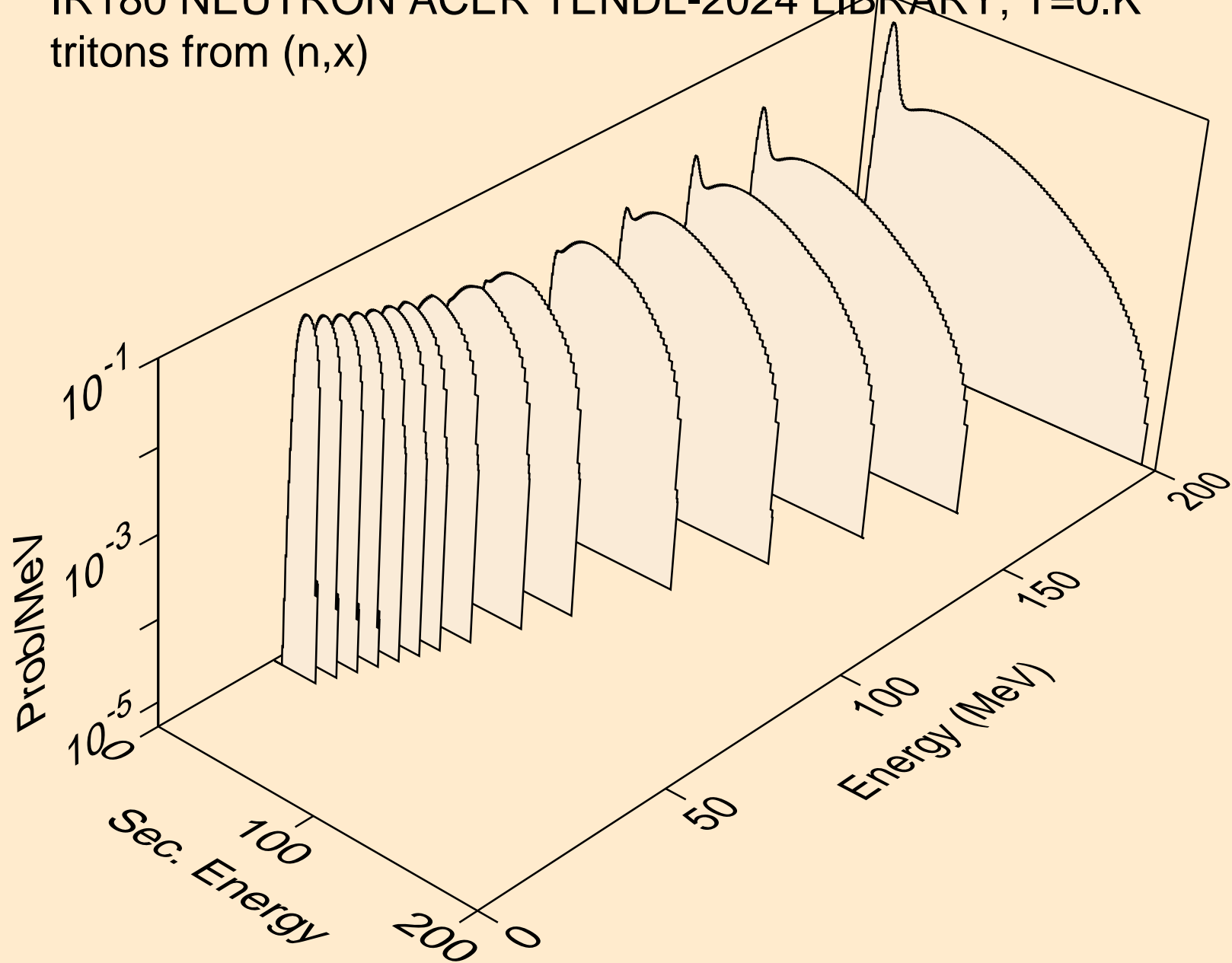
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,pd)



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,da)

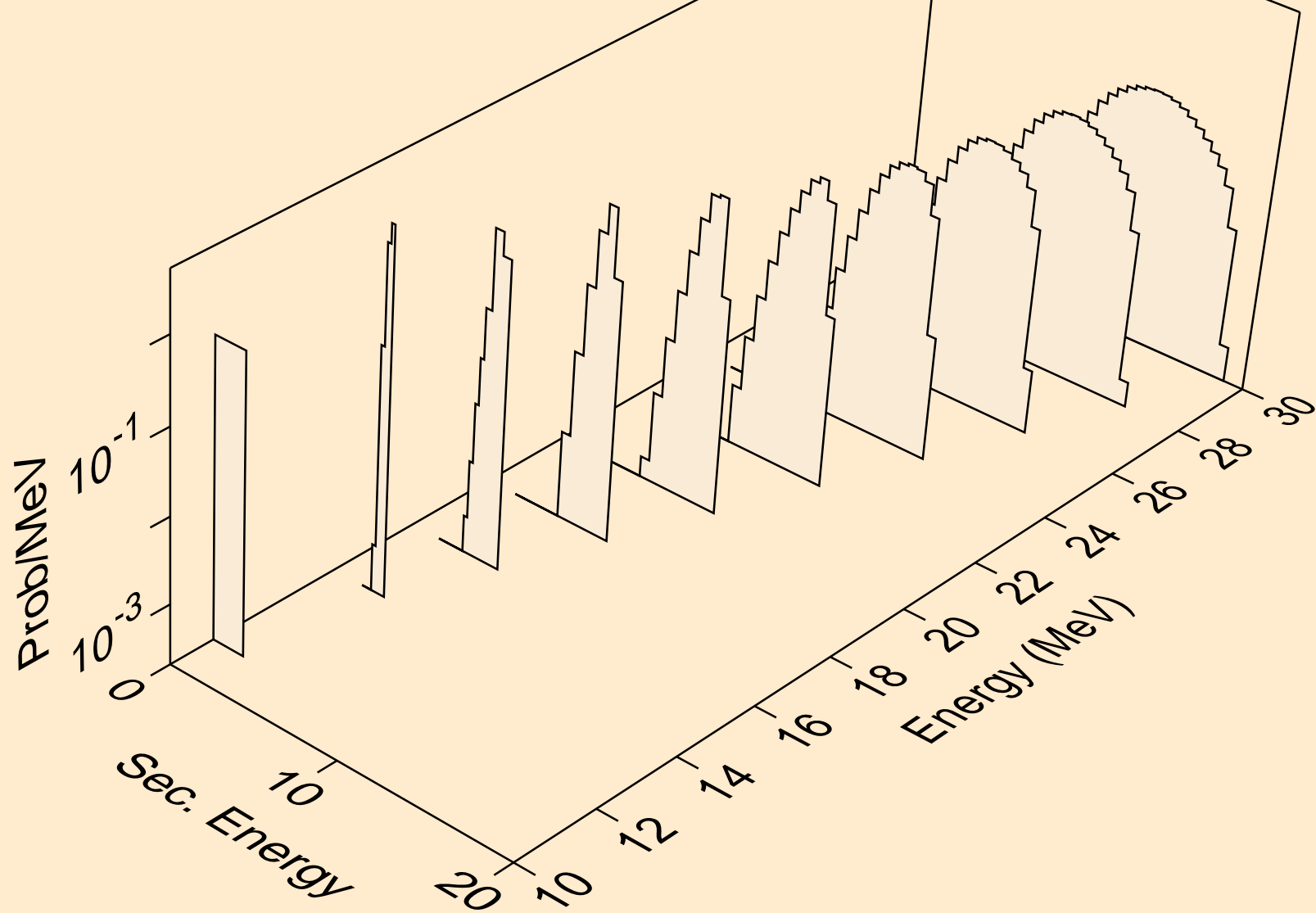


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tritons from (n,x)

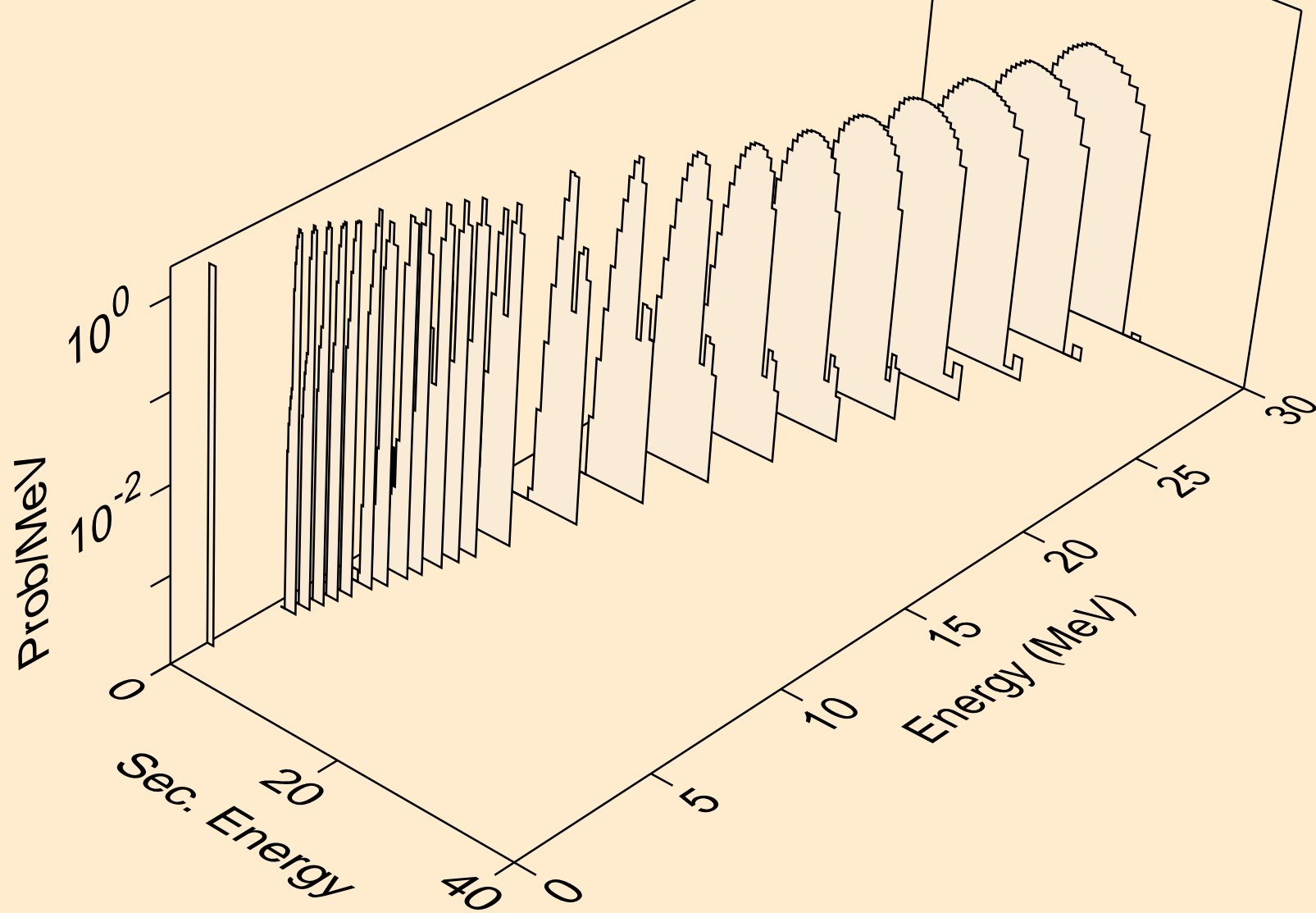




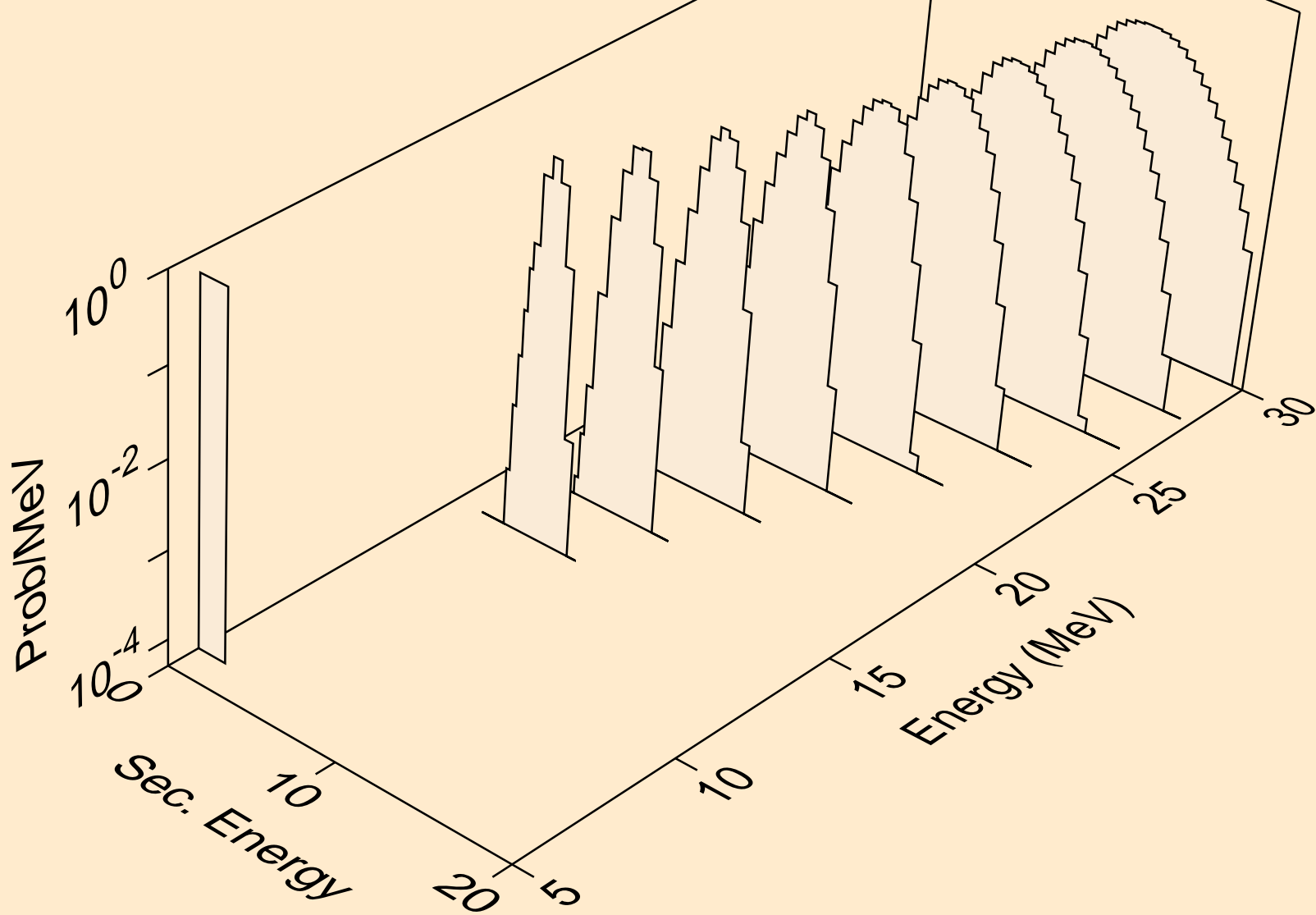
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tritons from (n,n\*)t



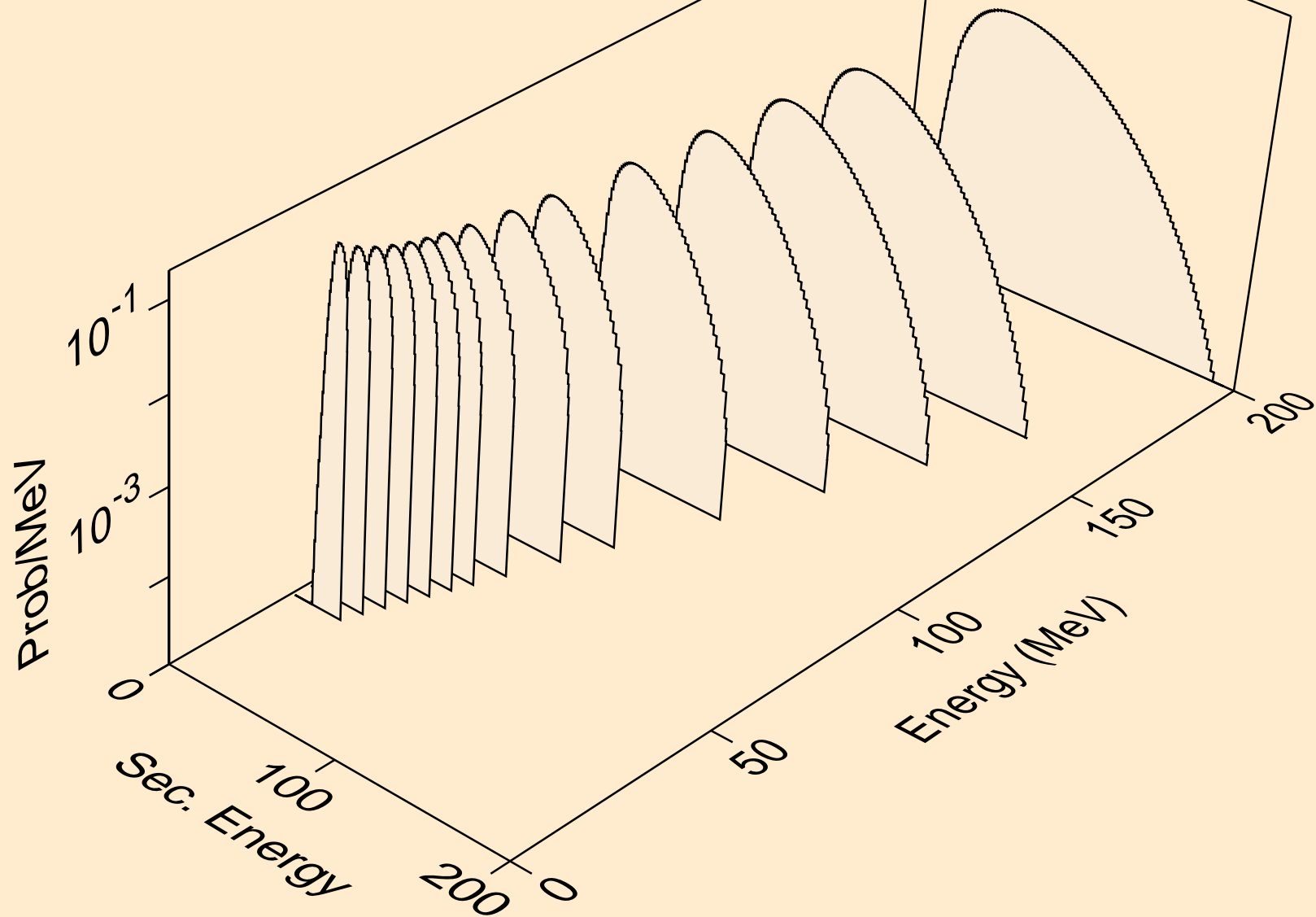
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tritons from (n,t)



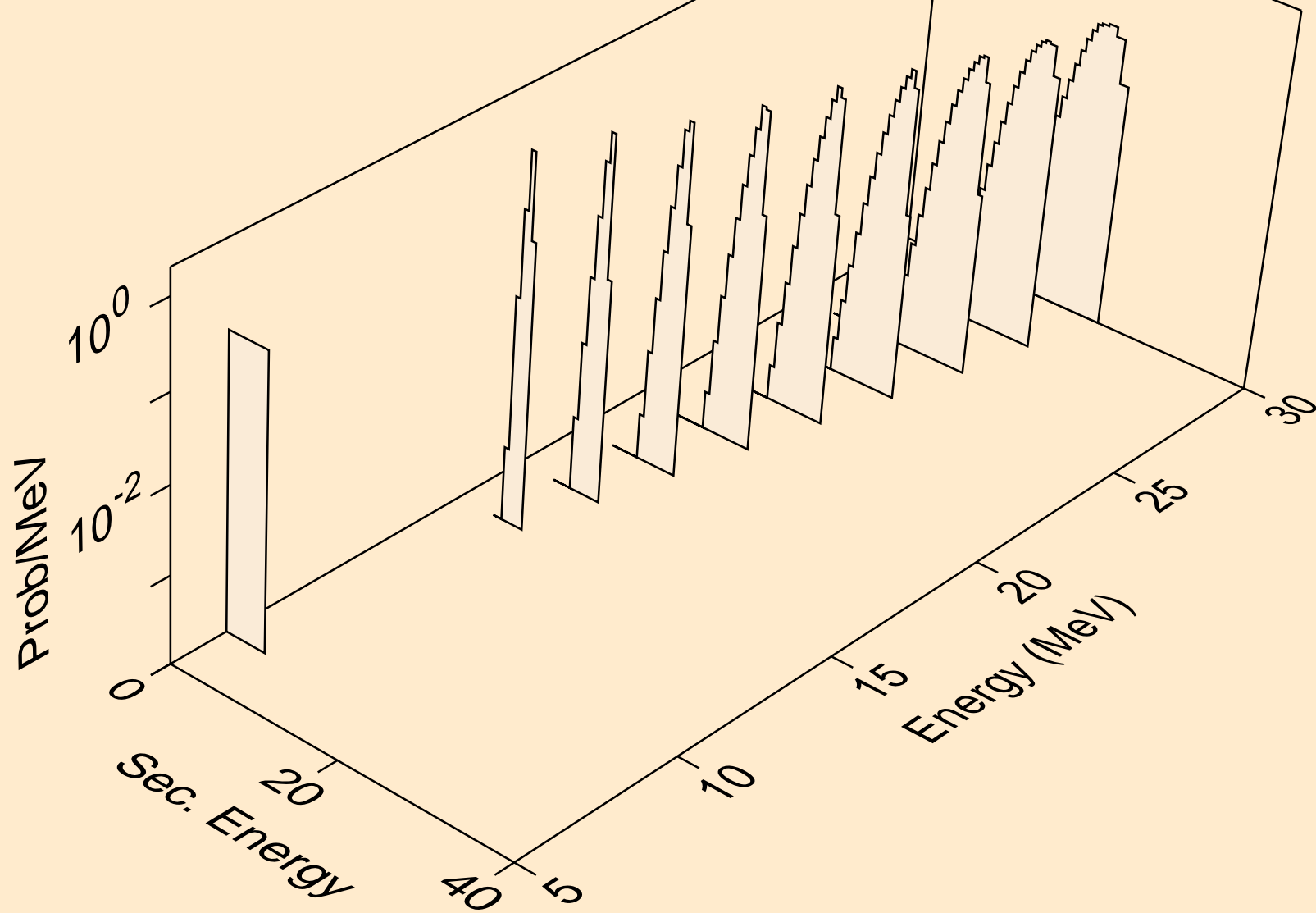
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tritons from (n,pt)



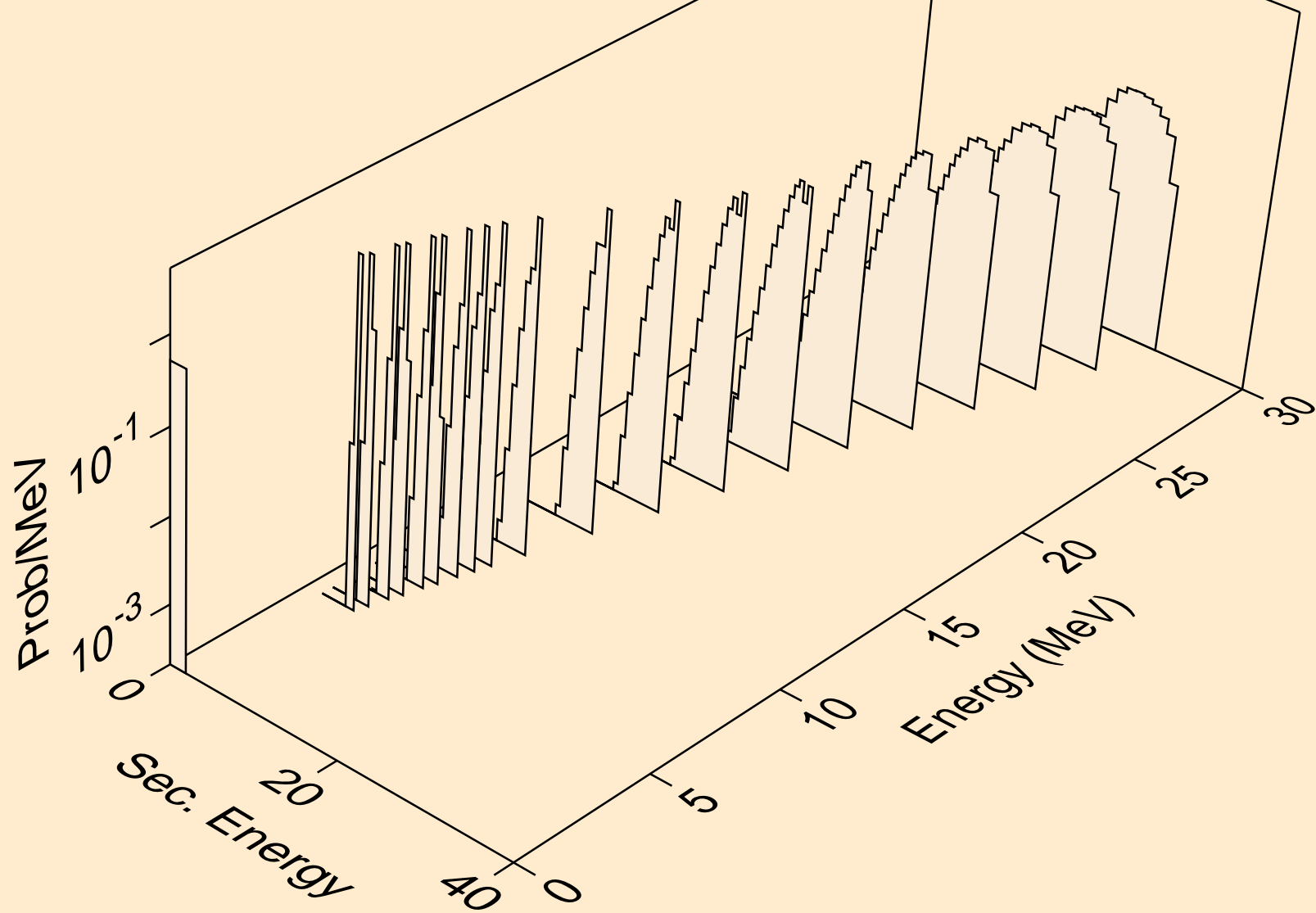
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he3s from (n,x)



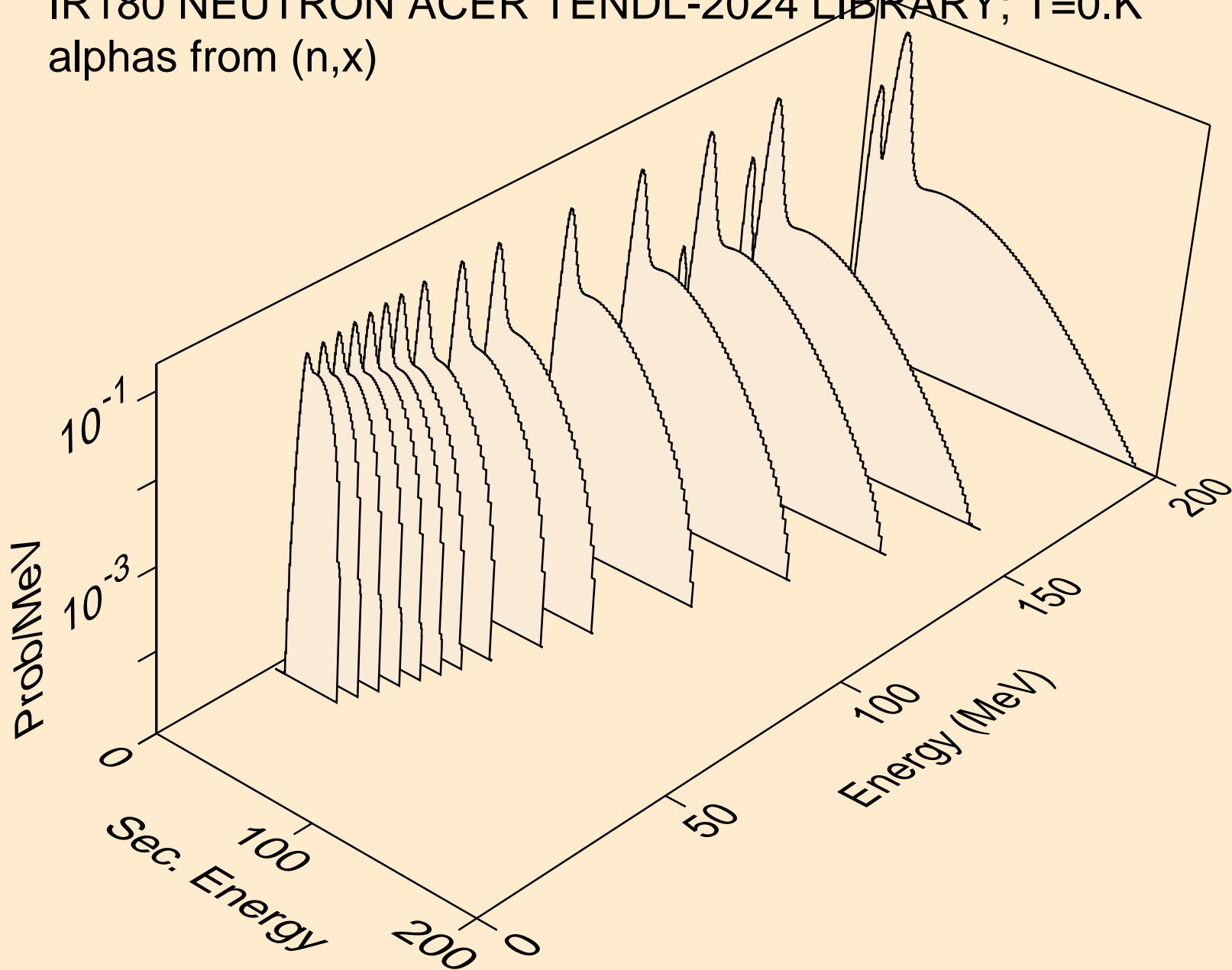
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,n\*)he3



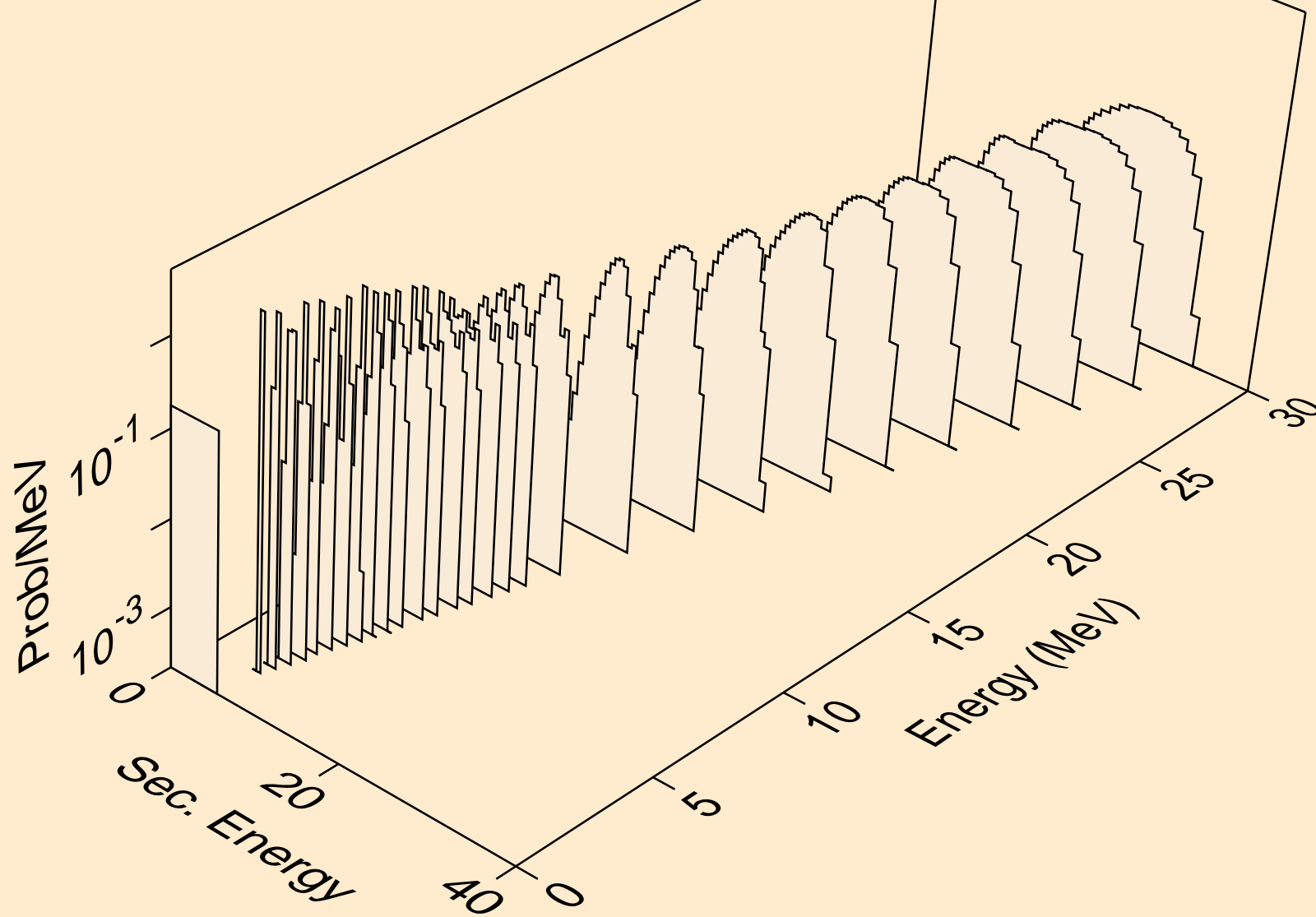
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,he3)



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)

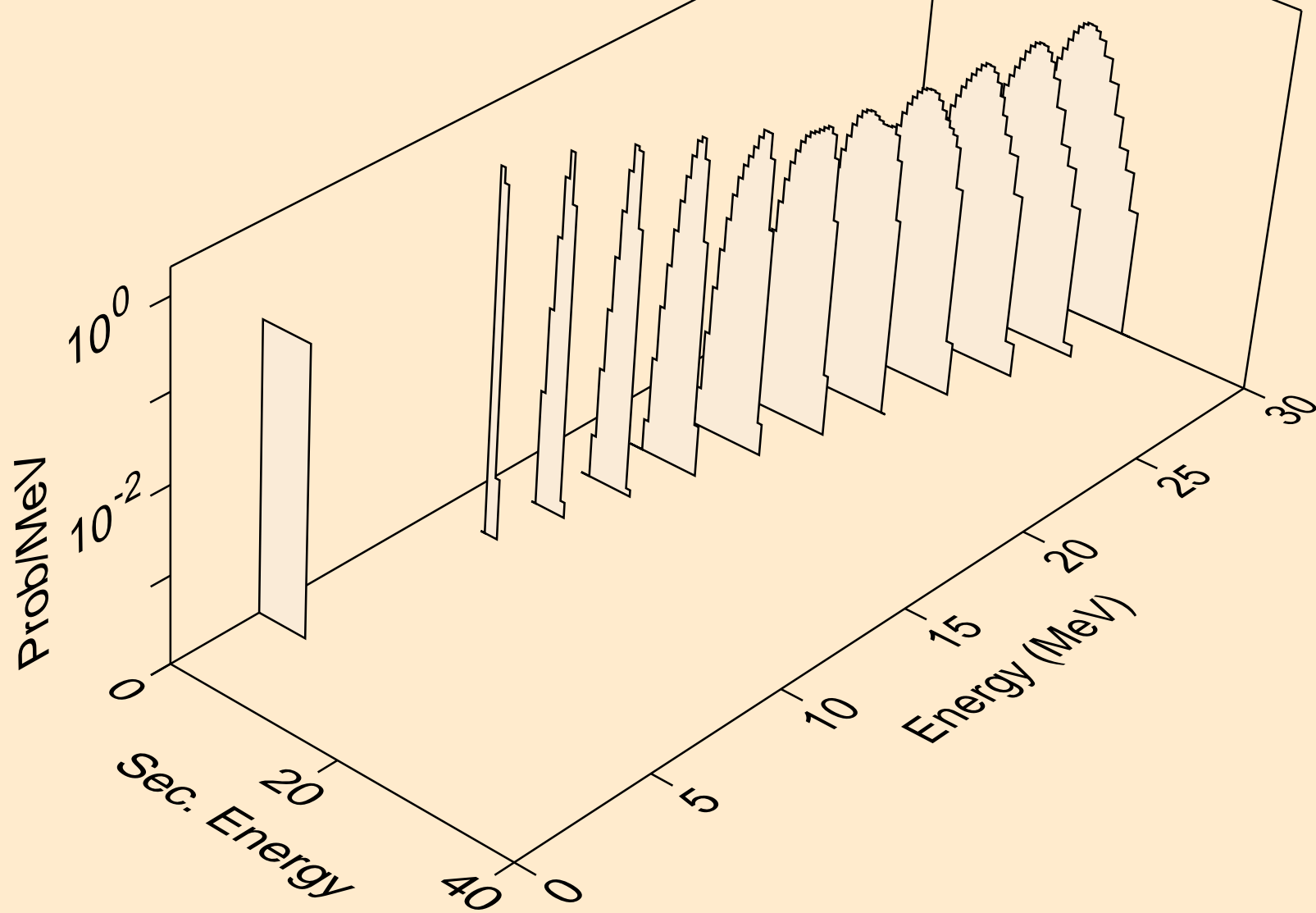


IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a

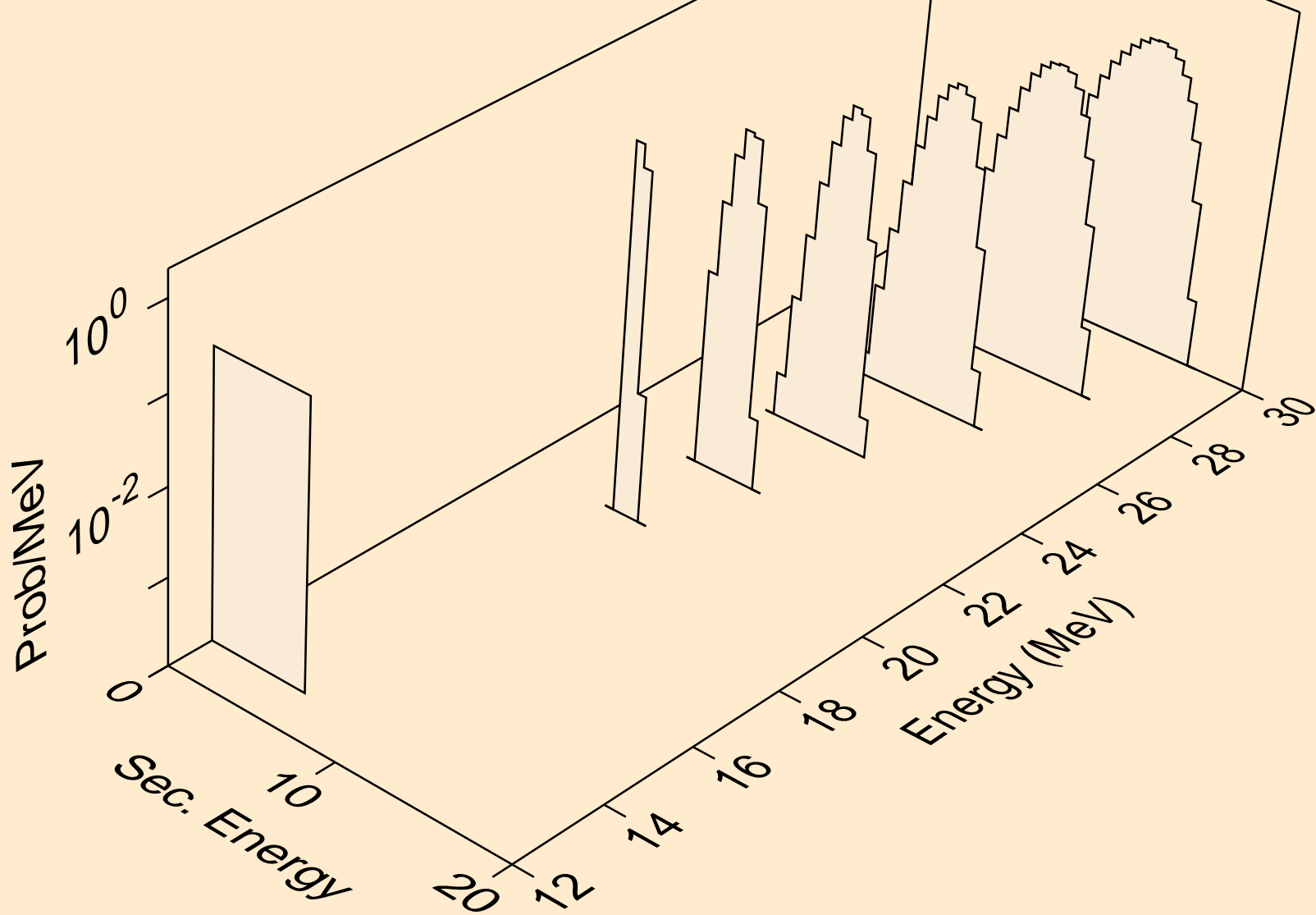




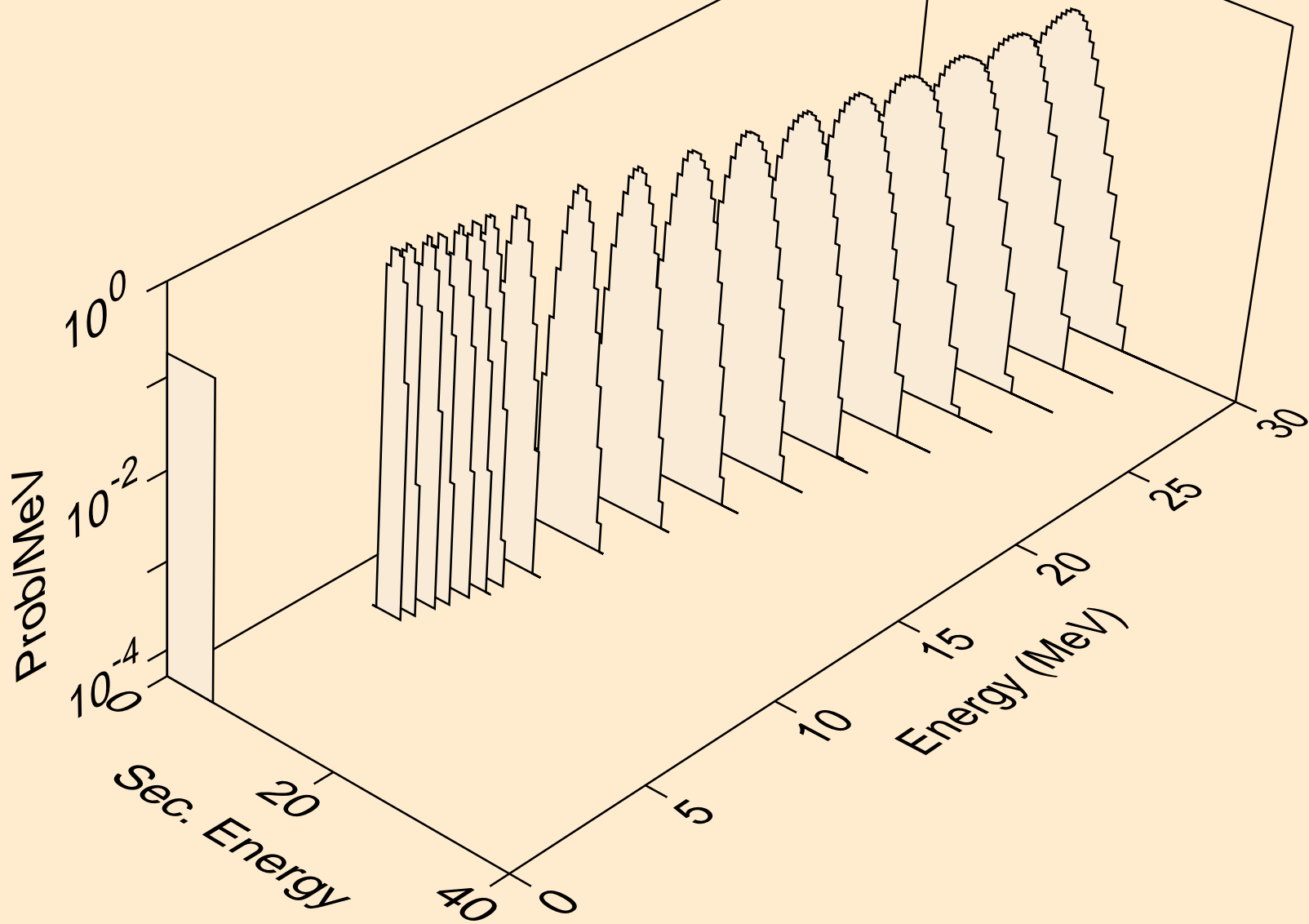
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a



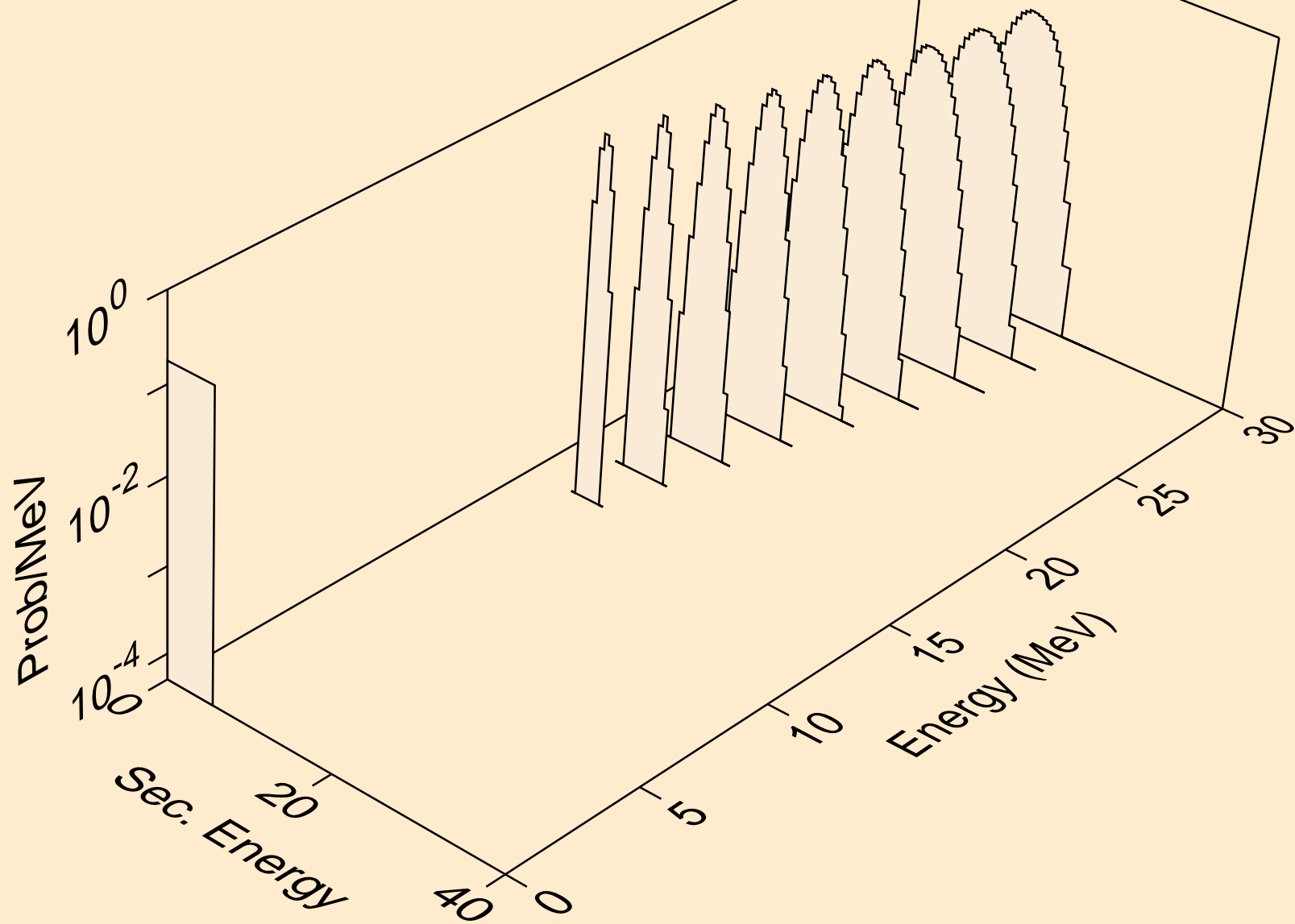
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alphas from (n,3n)a



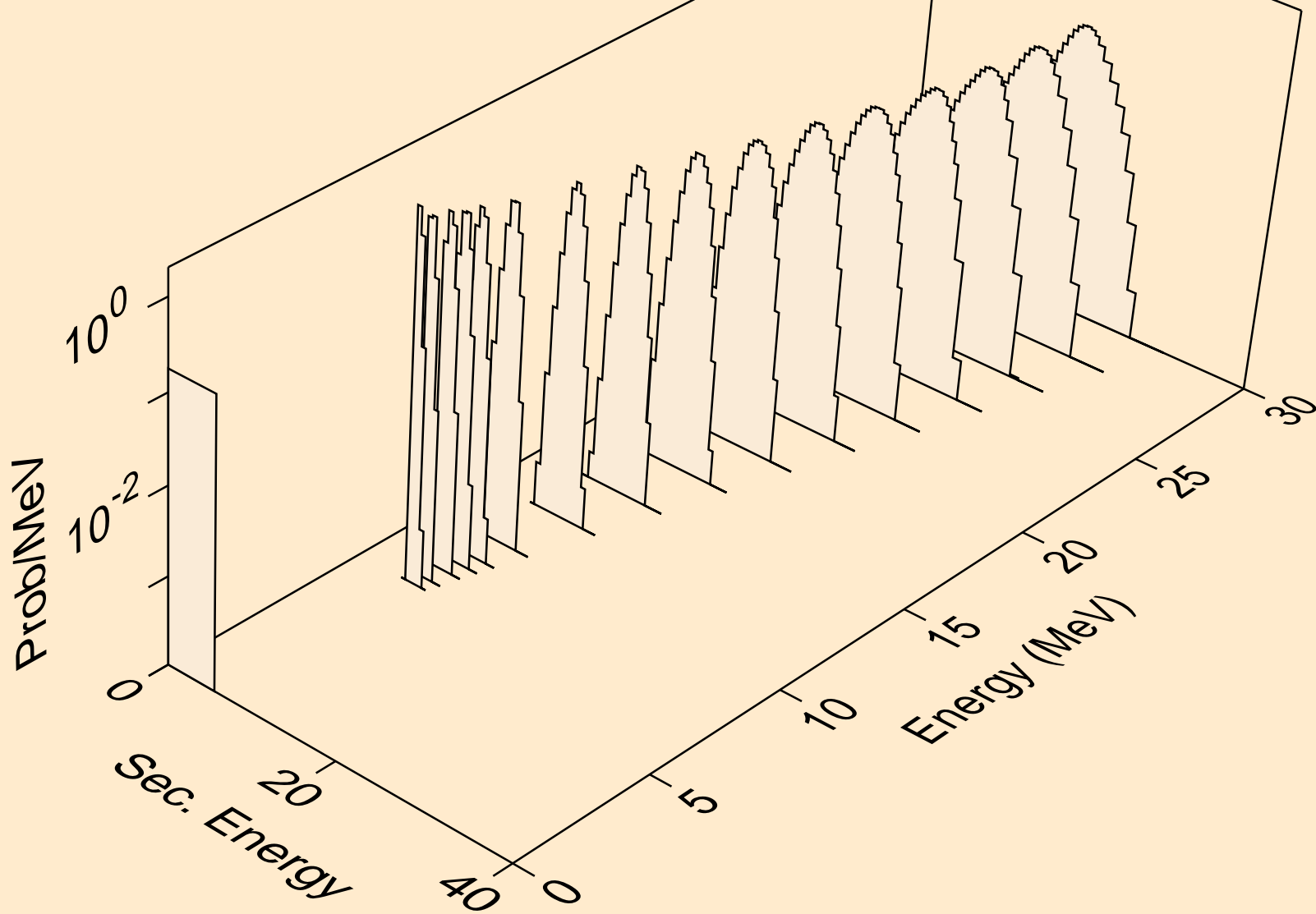
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alphas from (n,n\*)2a



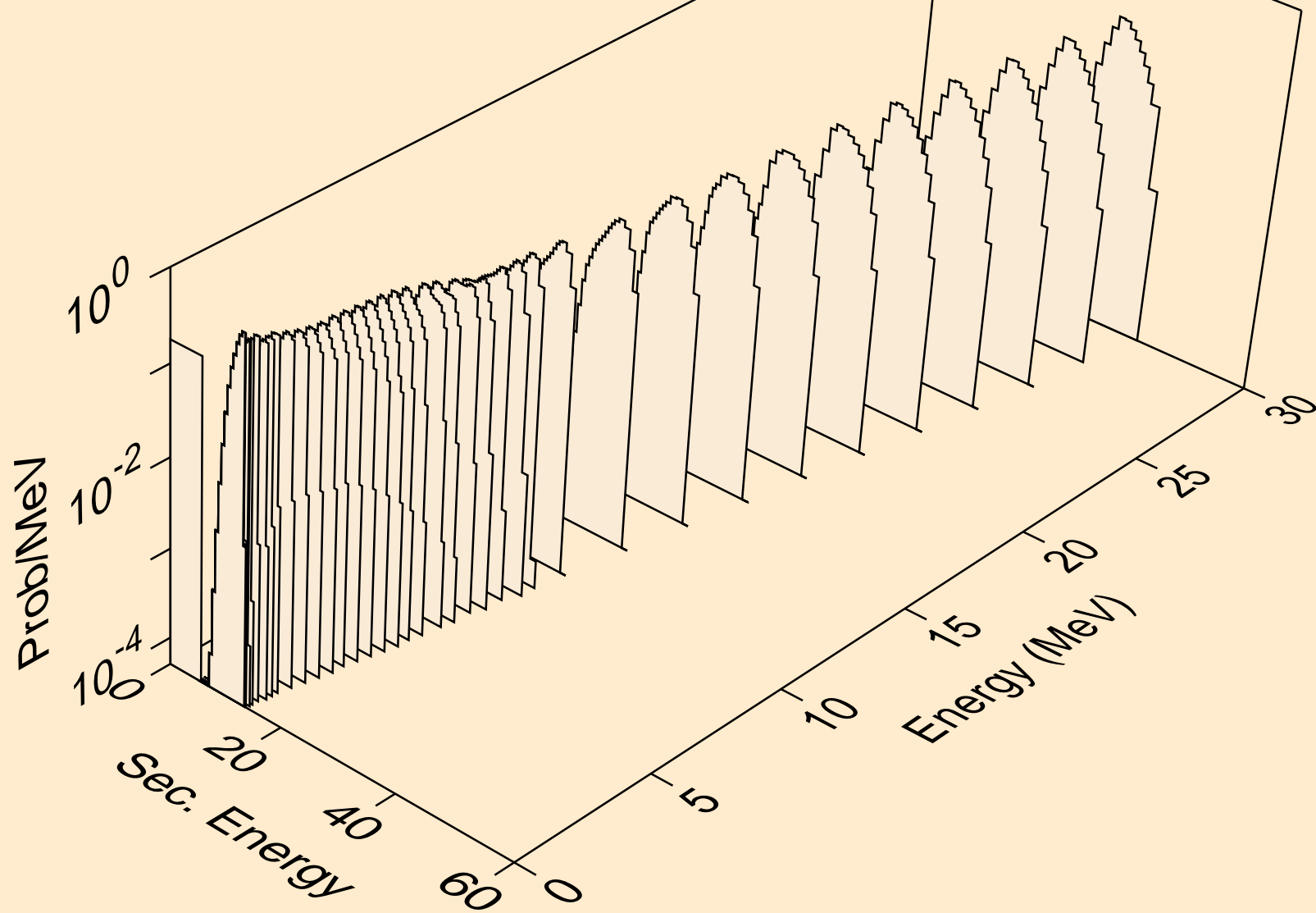
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)2a



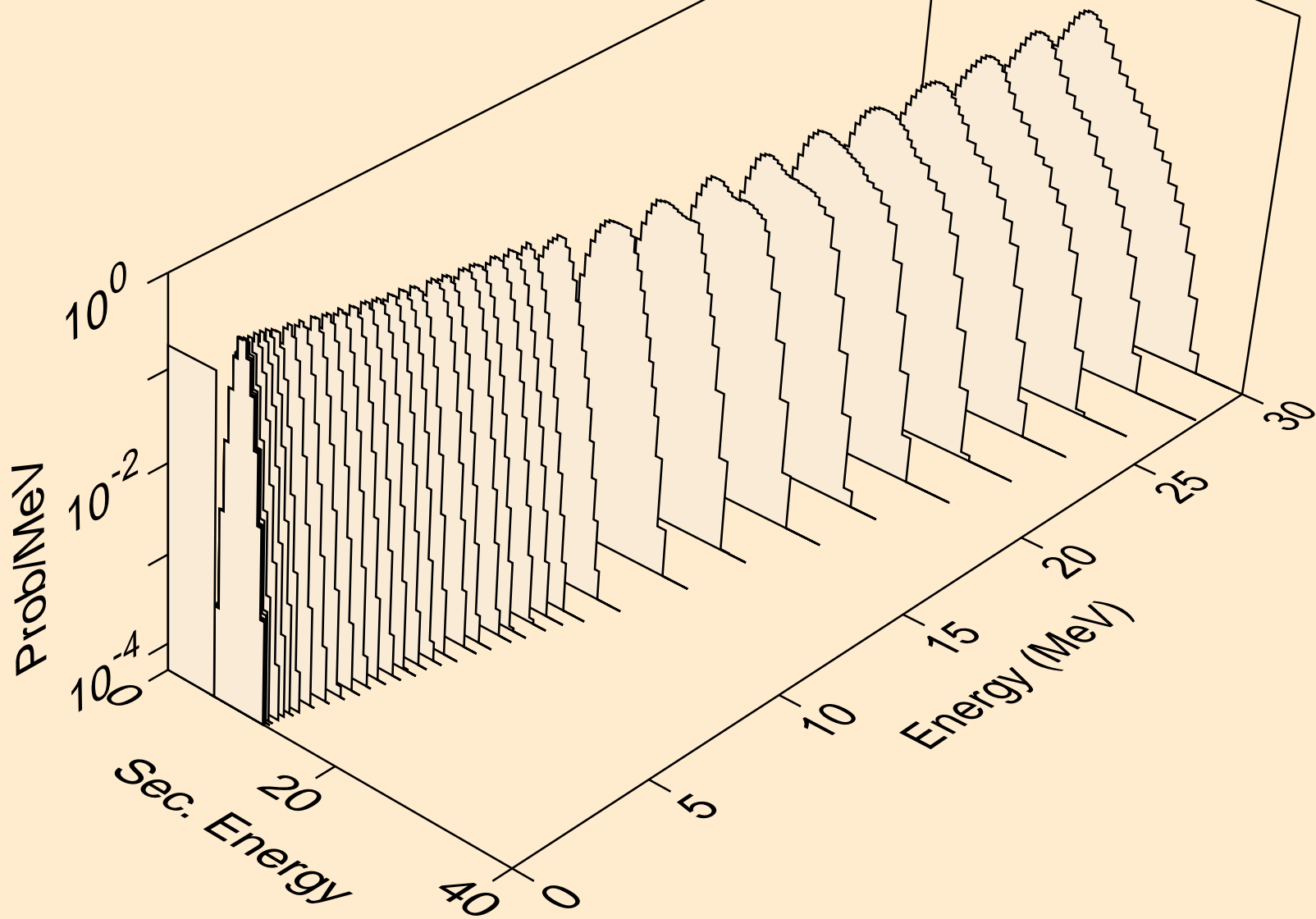
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alphas from (n,npa)



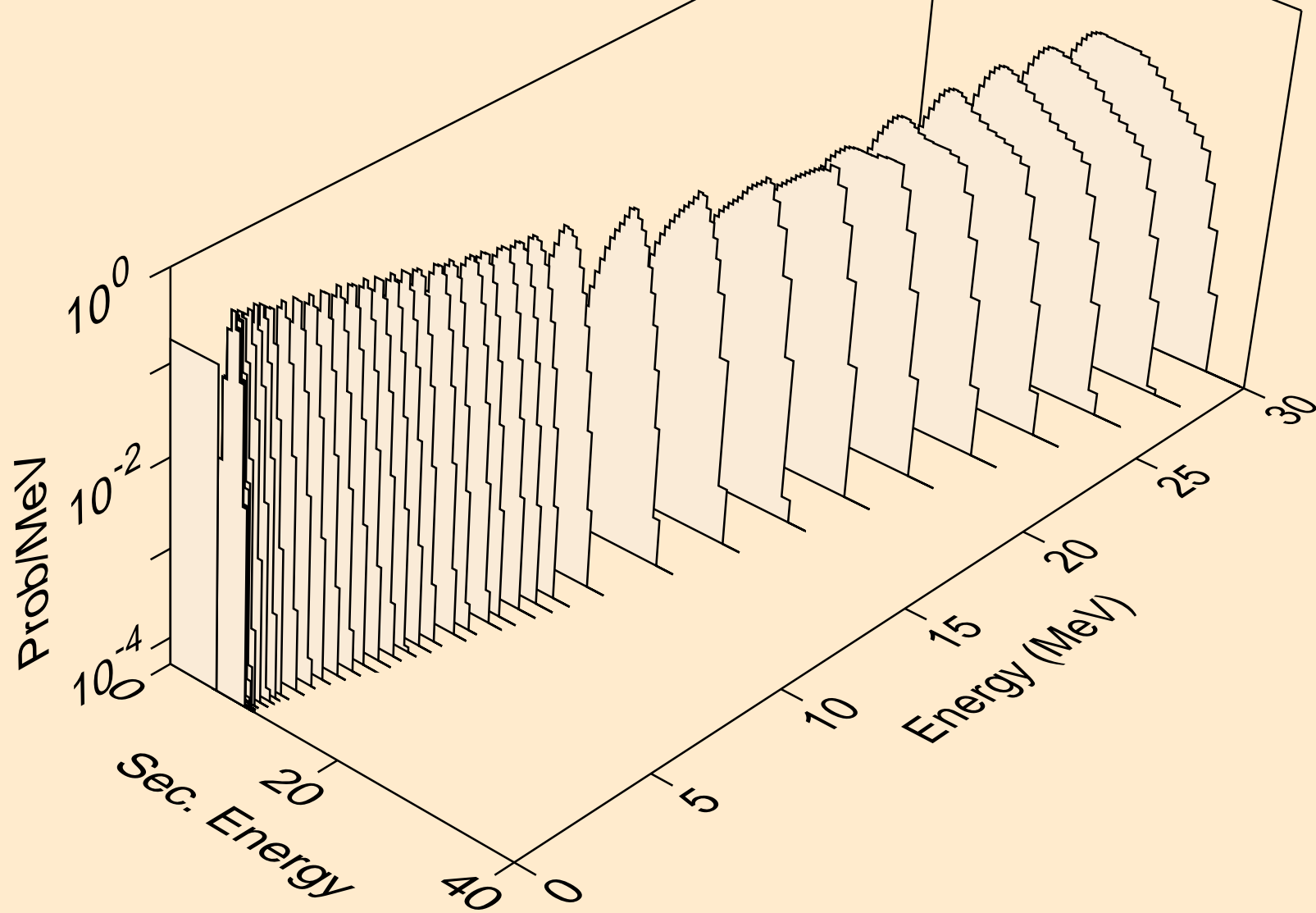
IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)



IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)





IR180 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

