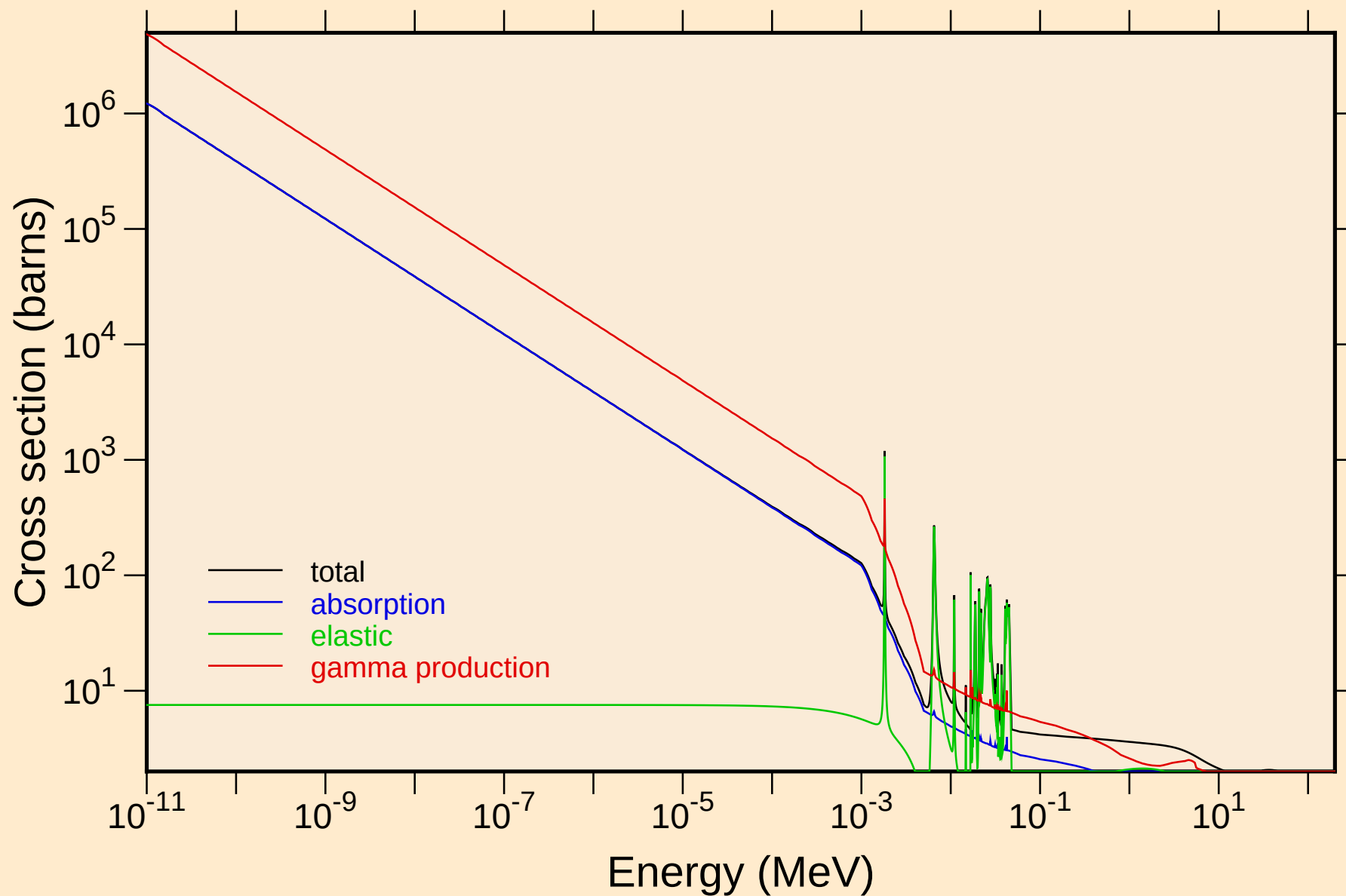
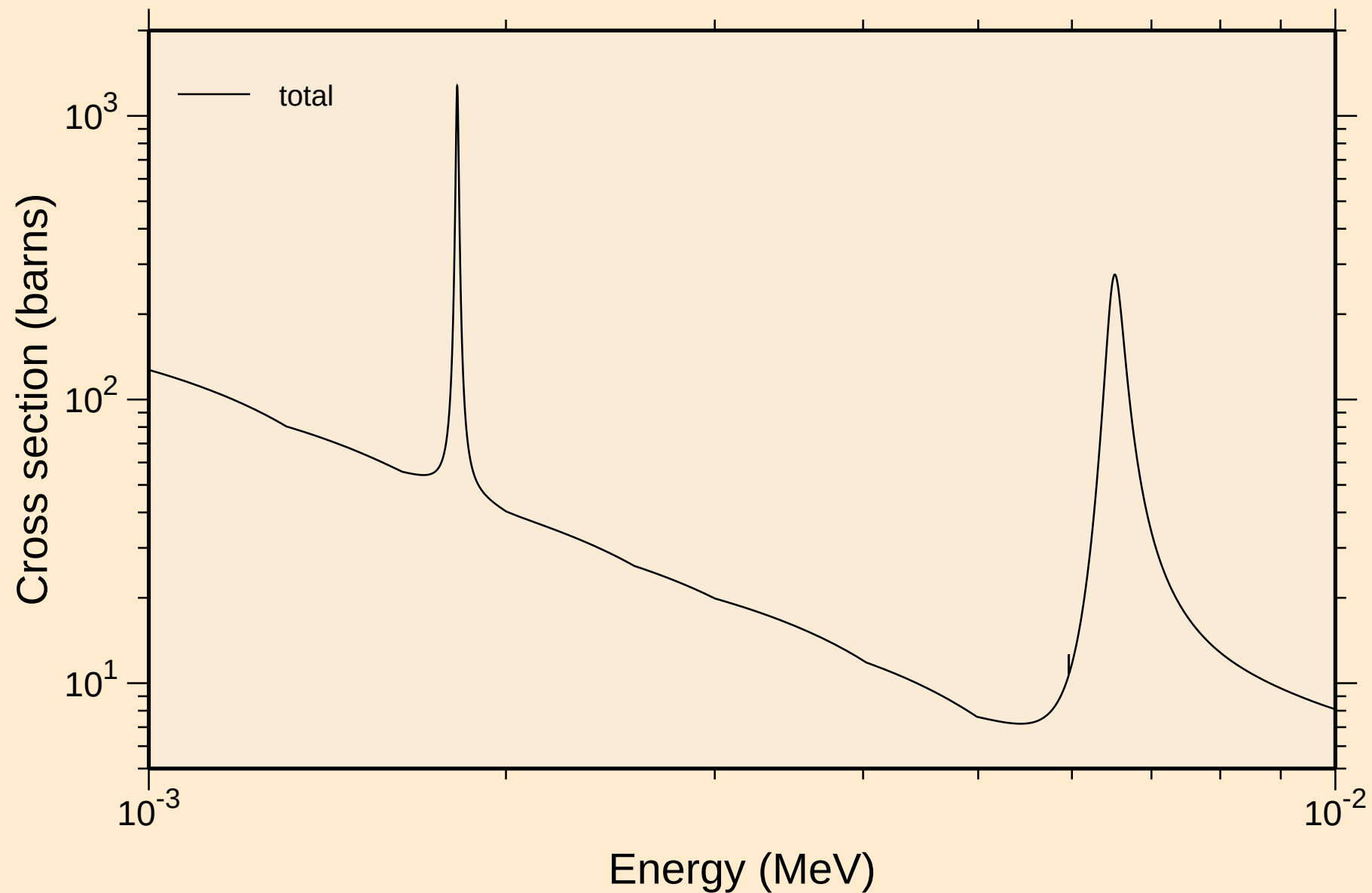


# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

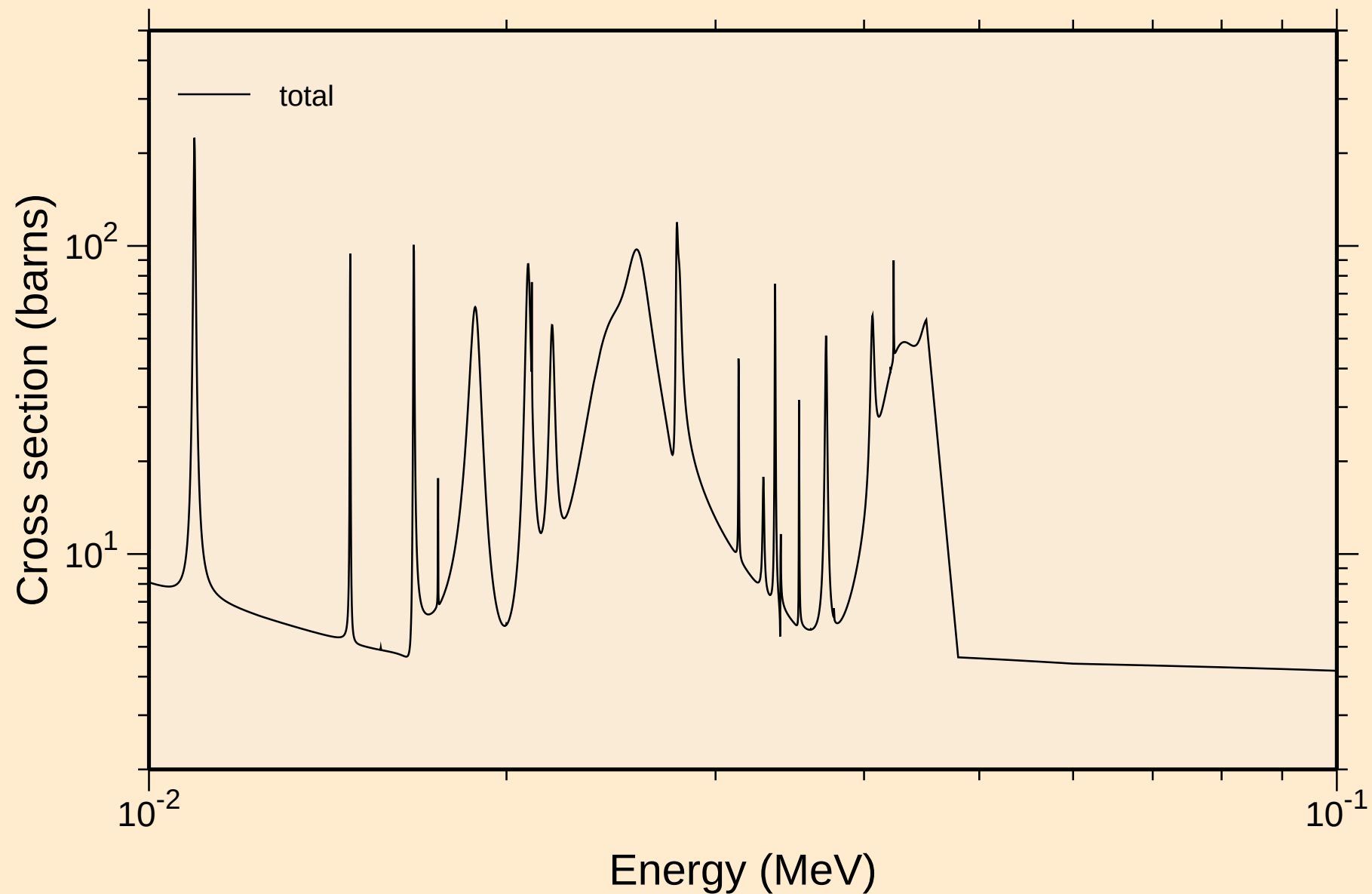
## Principal cross sections



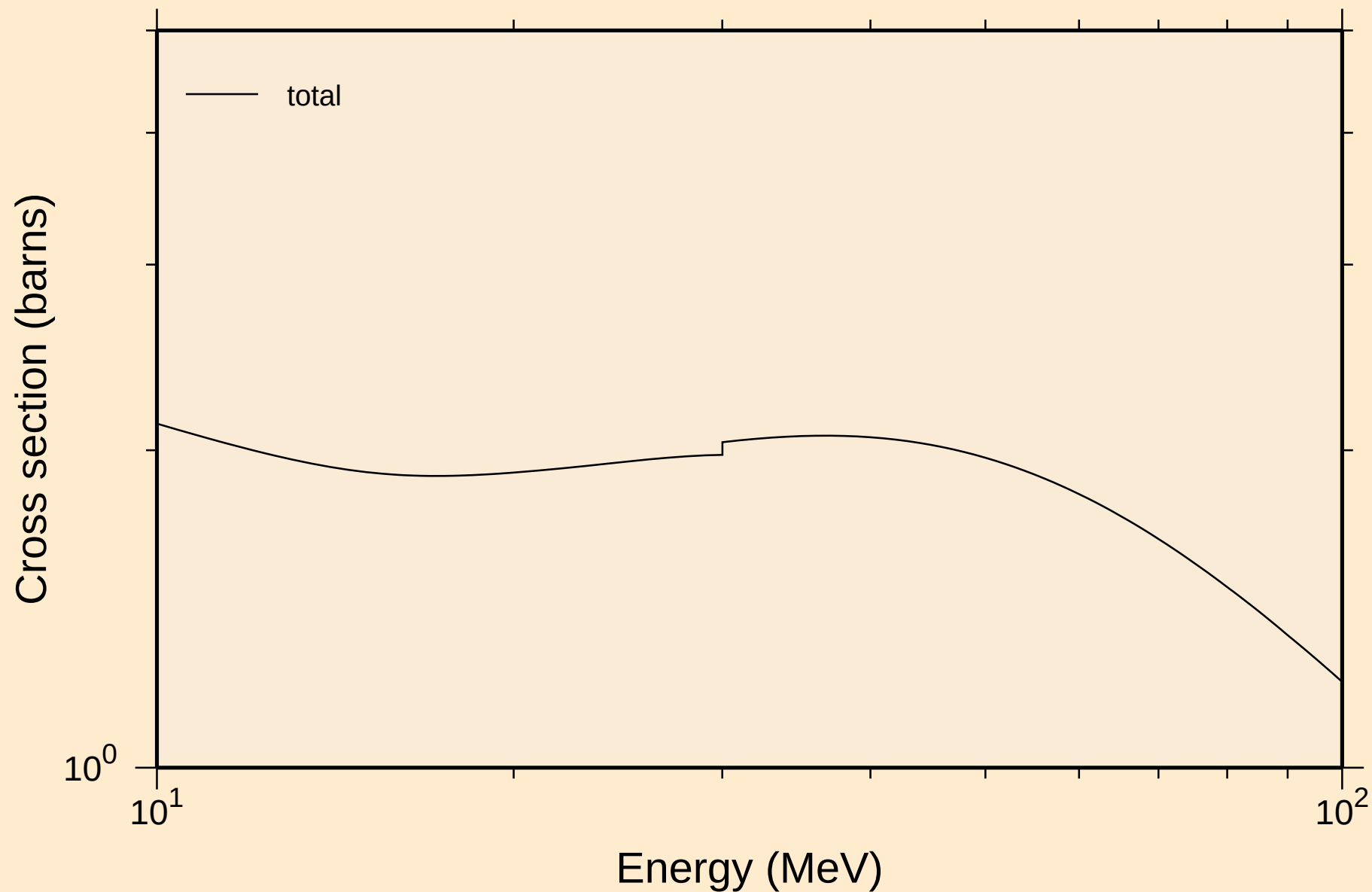
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



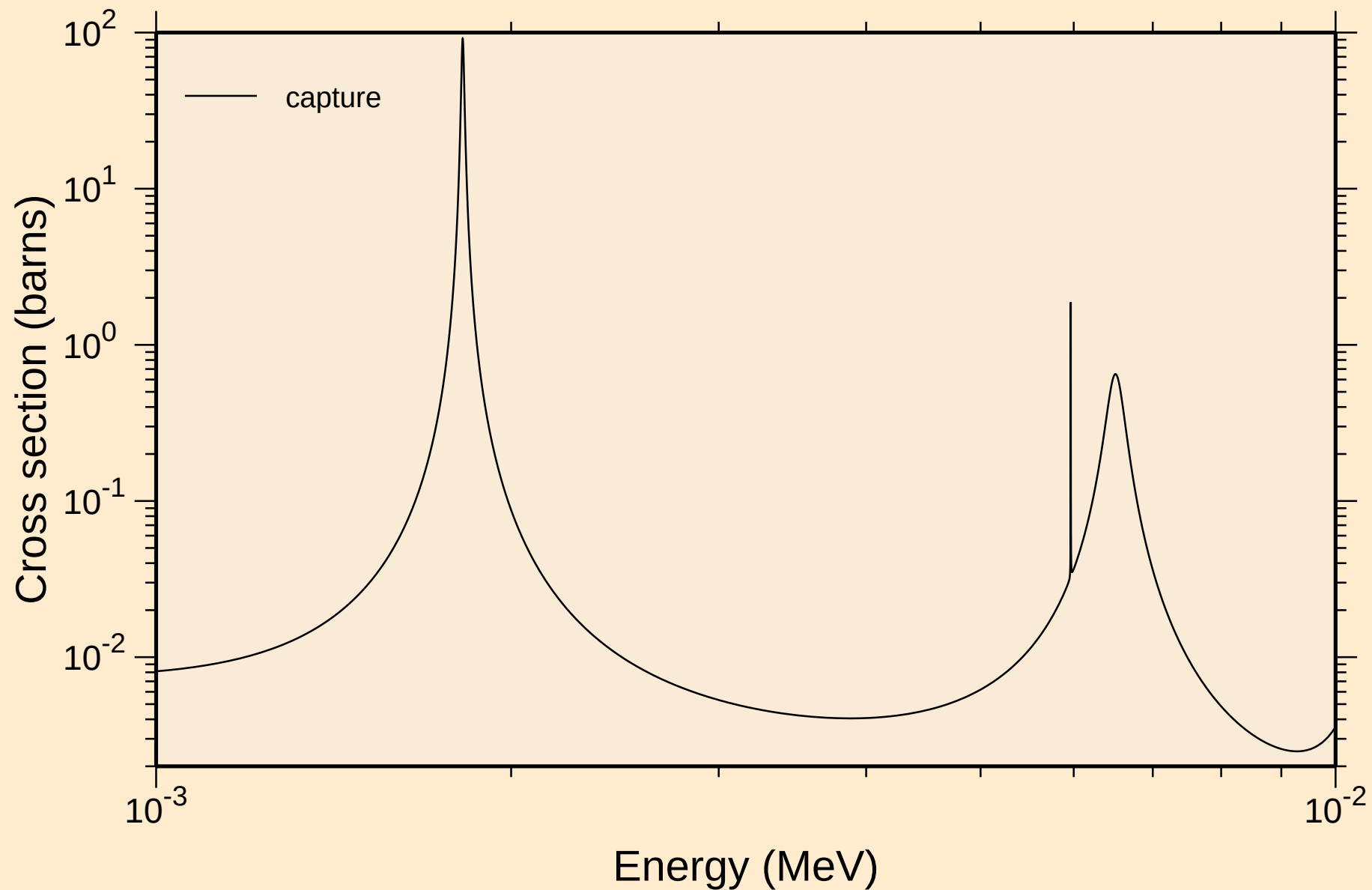
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



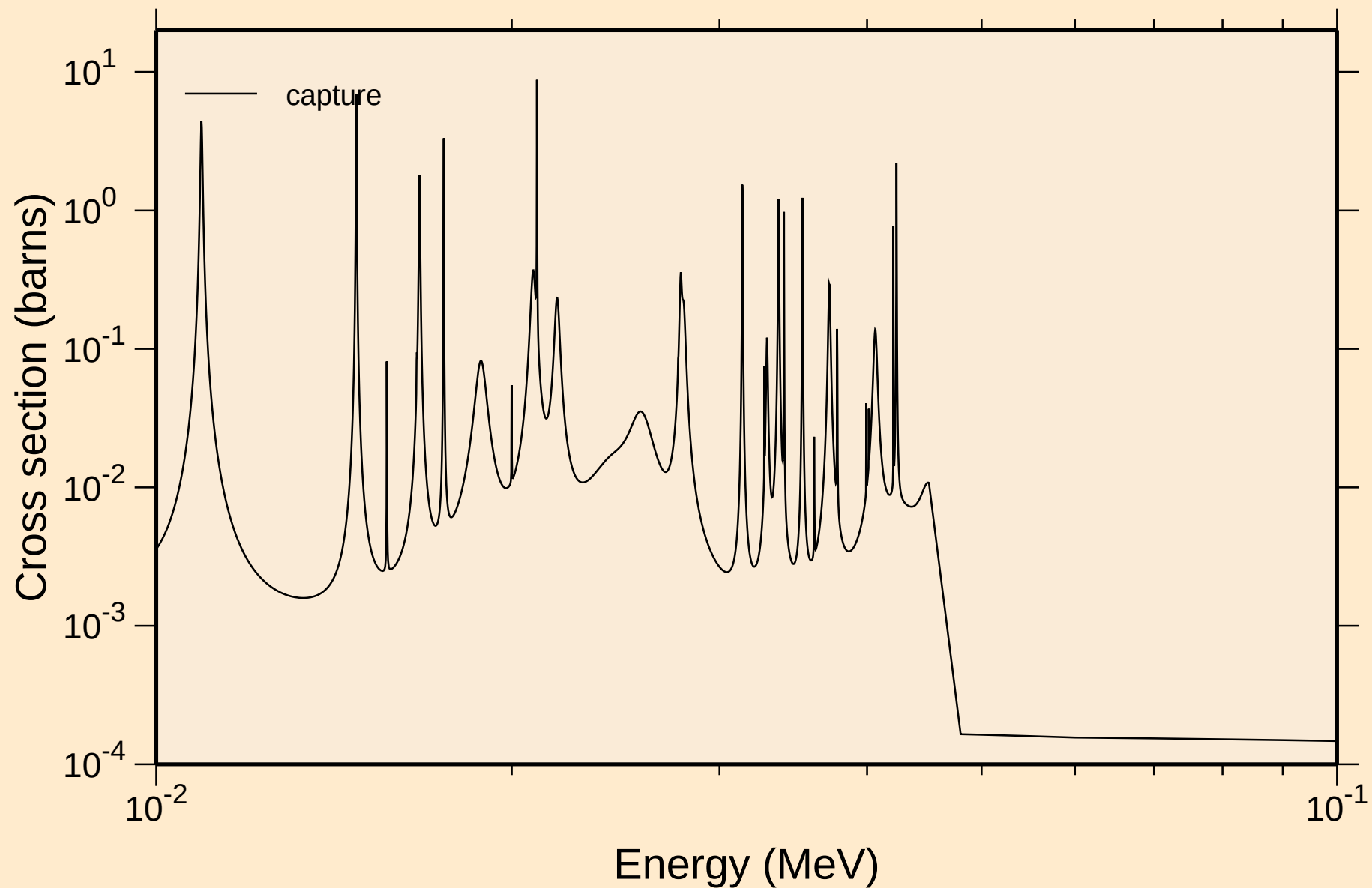
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



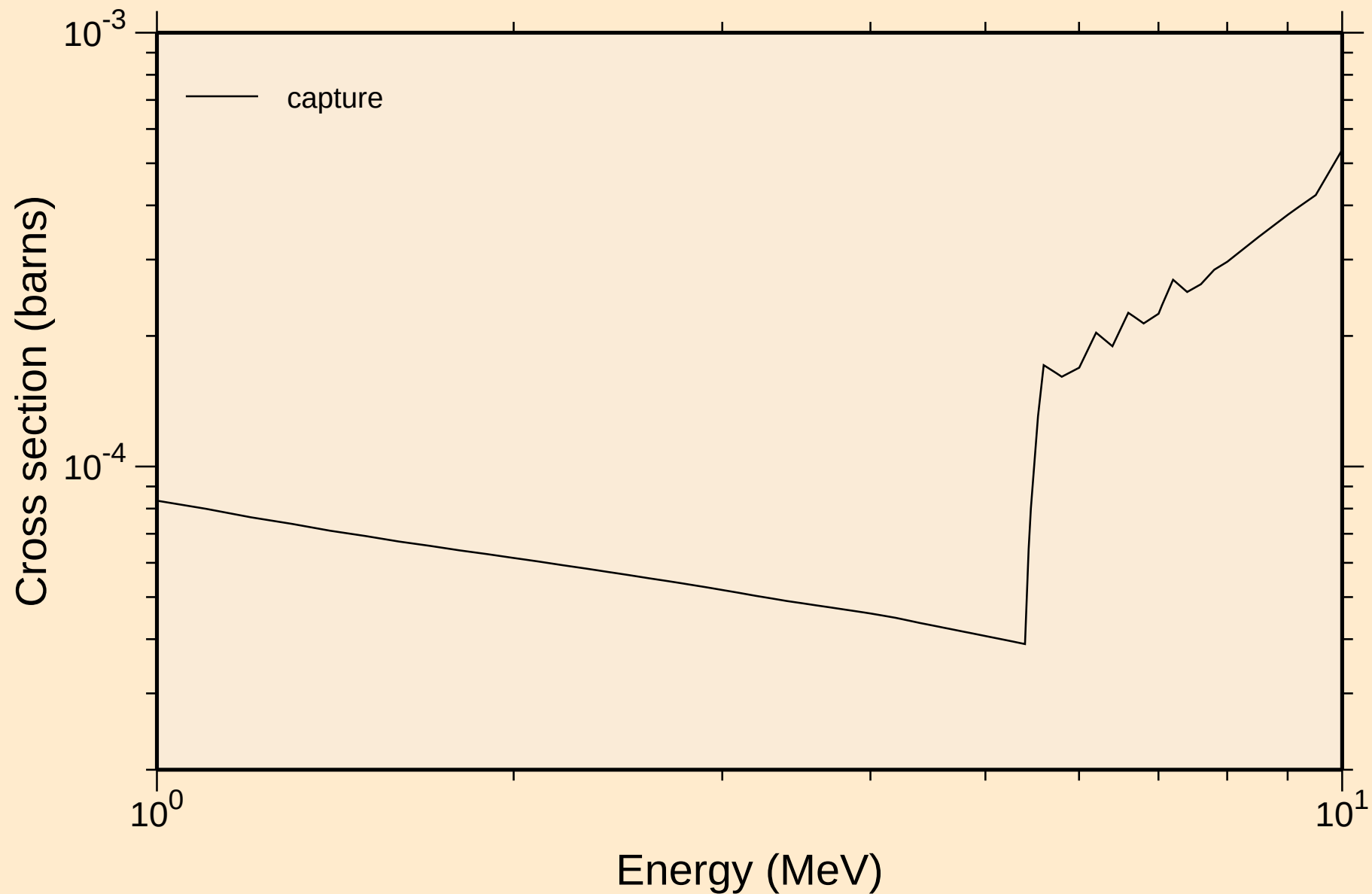
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

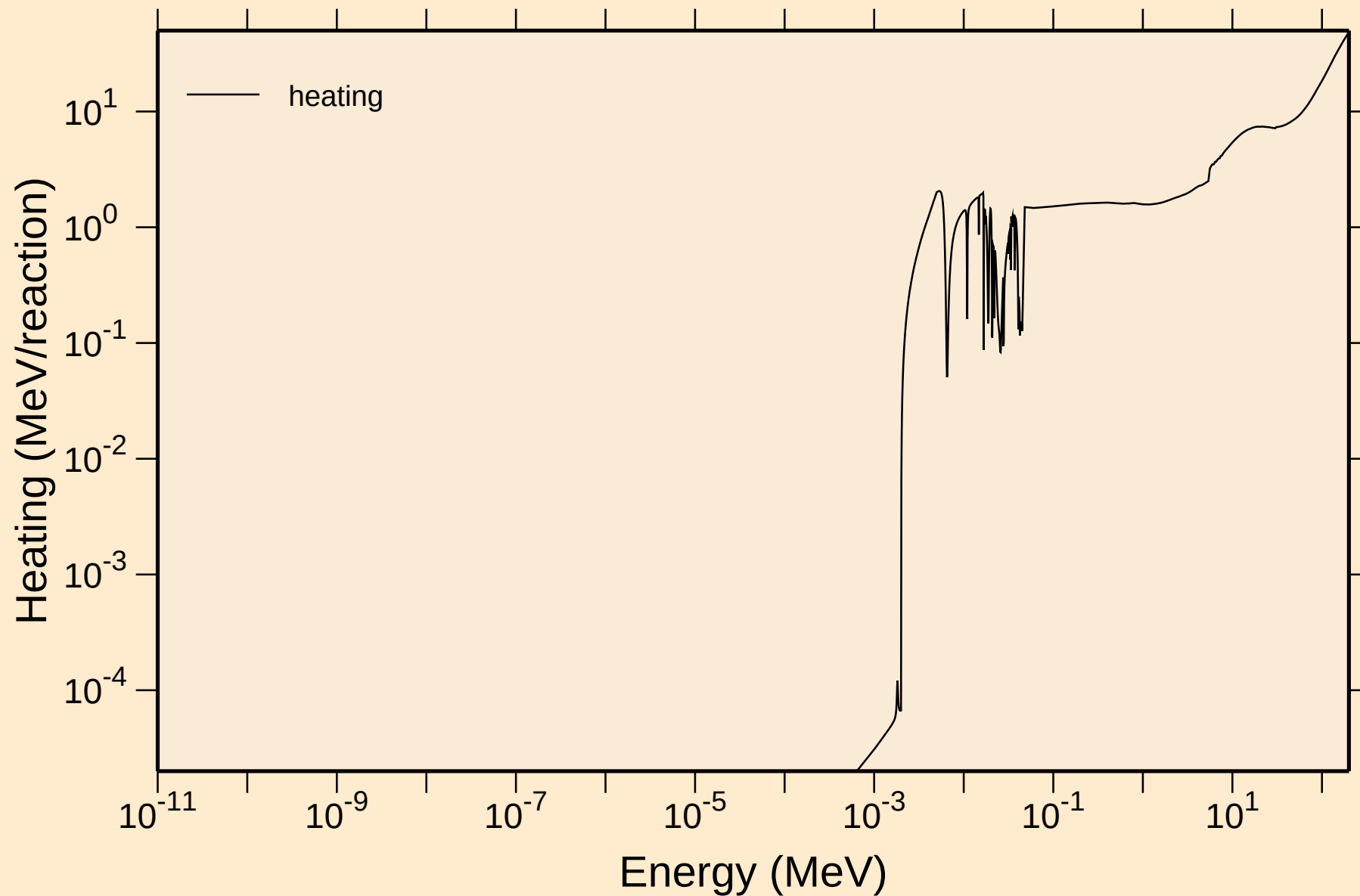


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

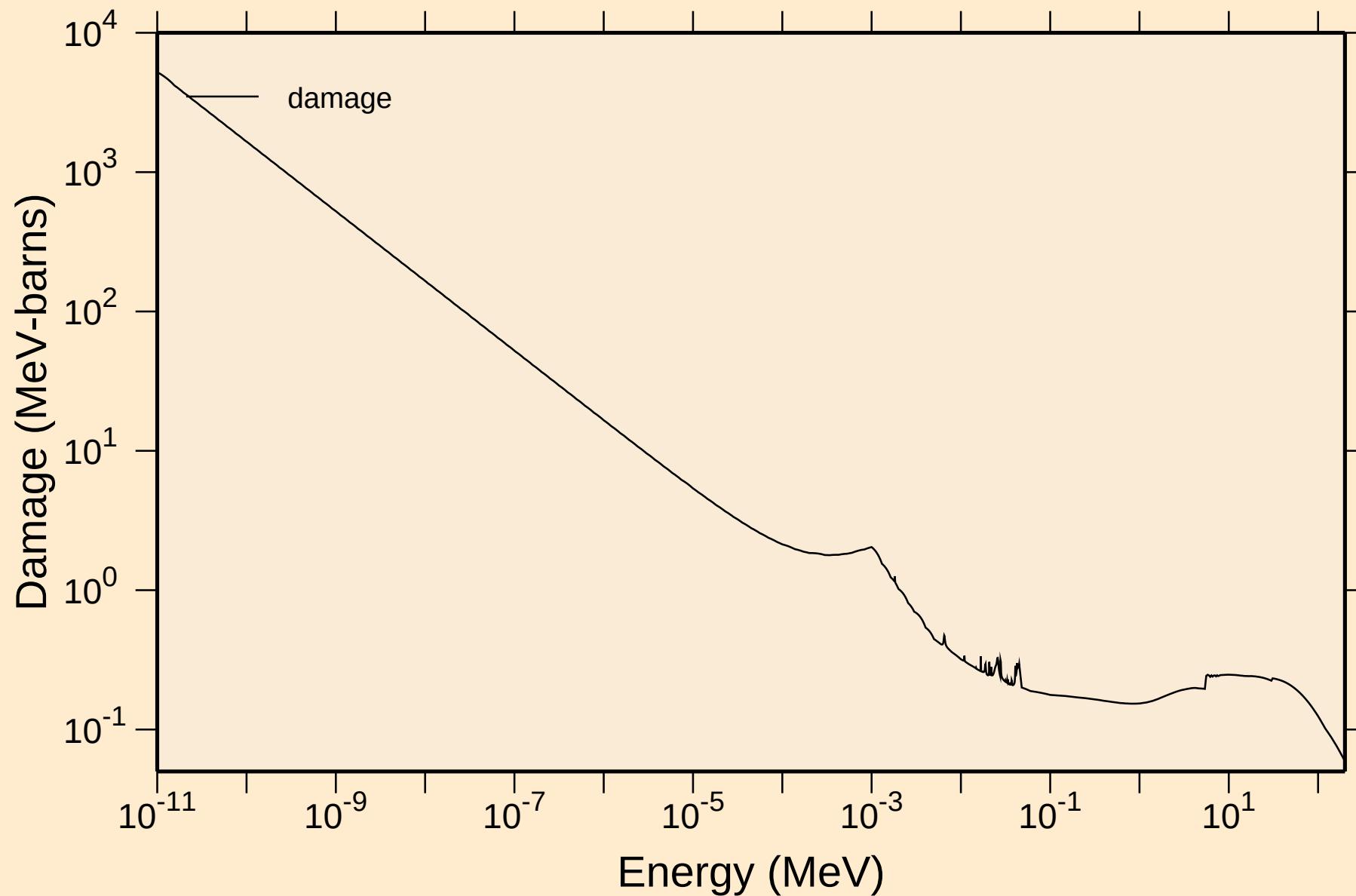
Heating





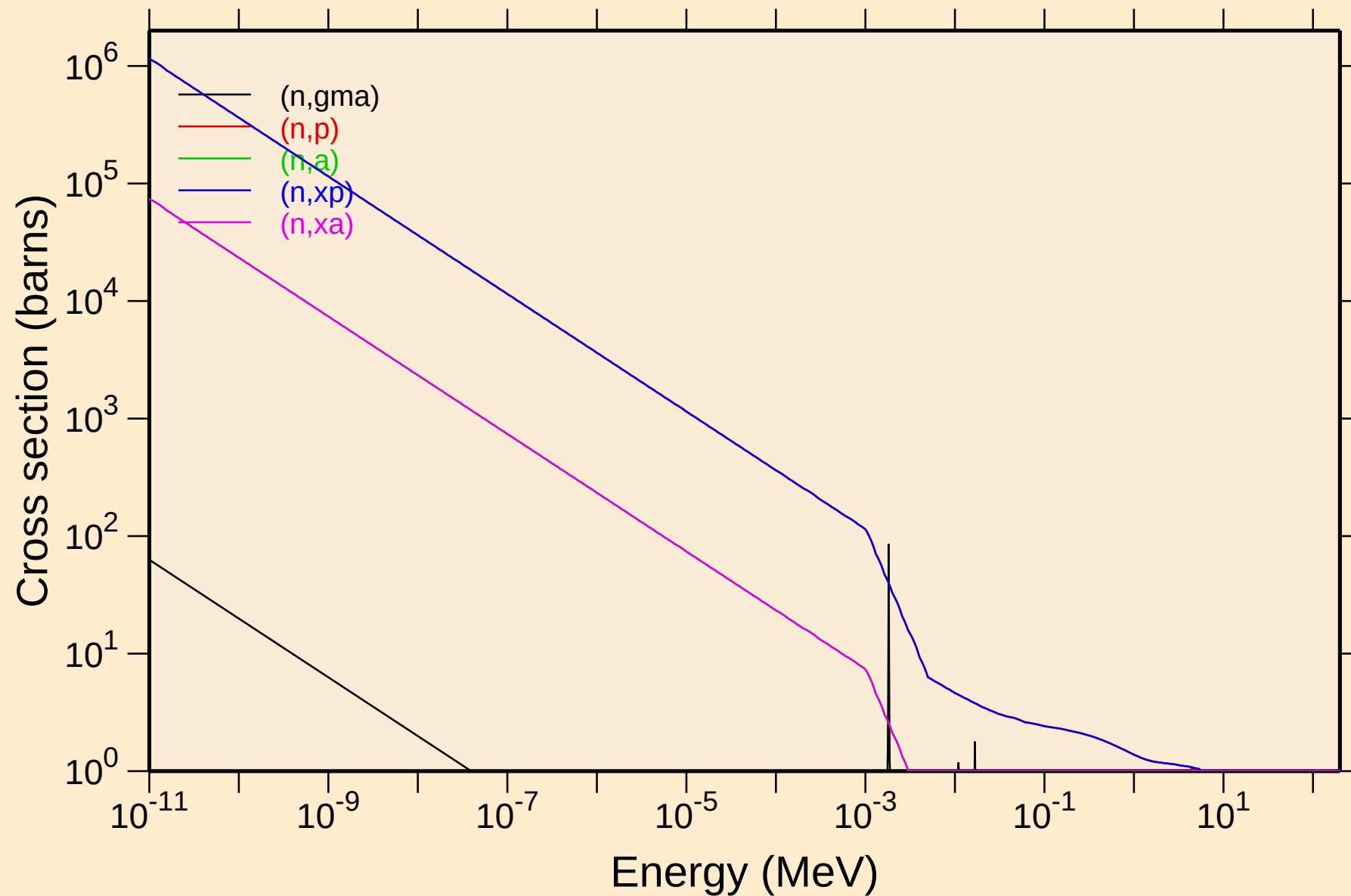
# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Damage



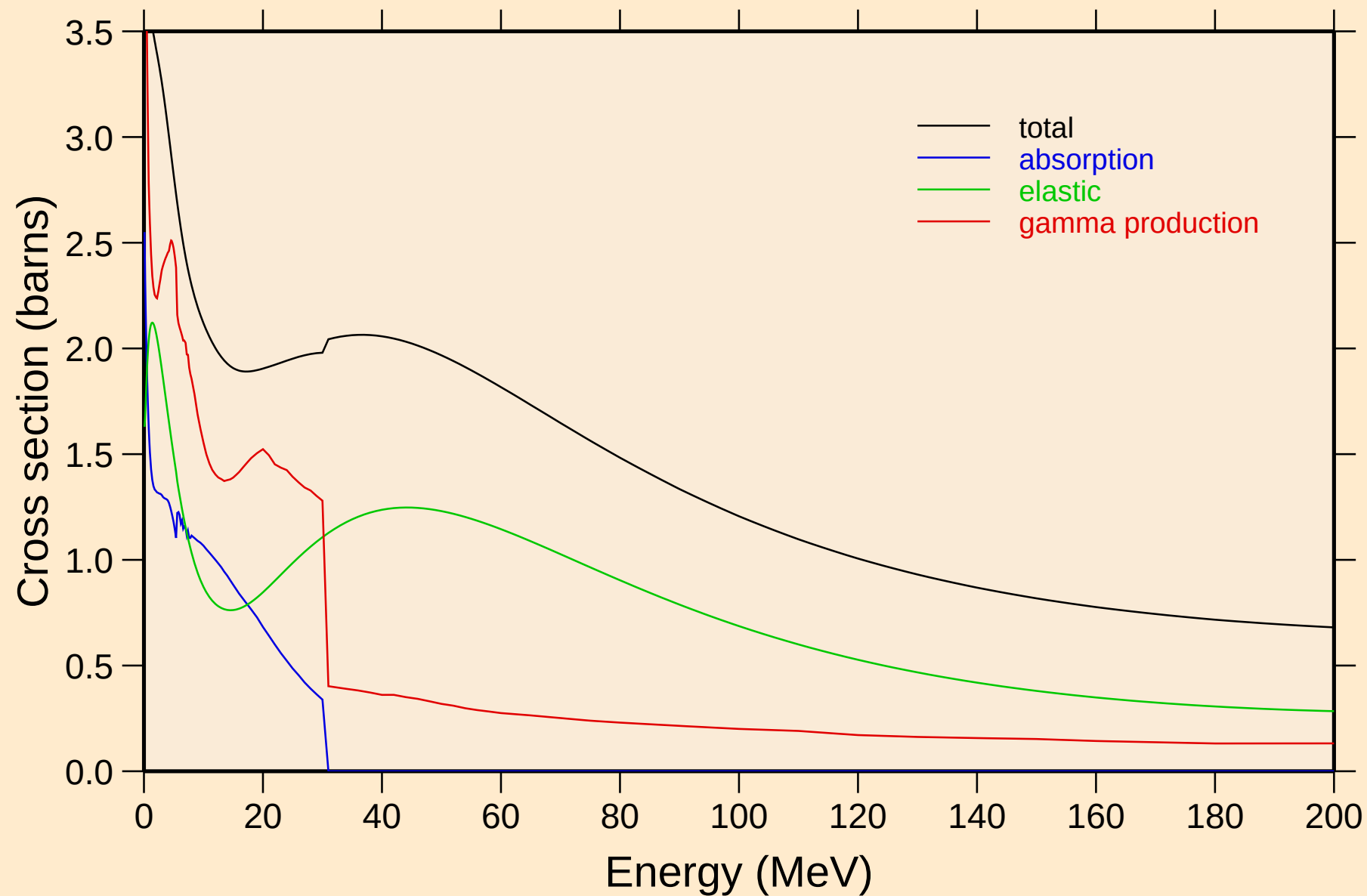
# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Non-threshold reactions



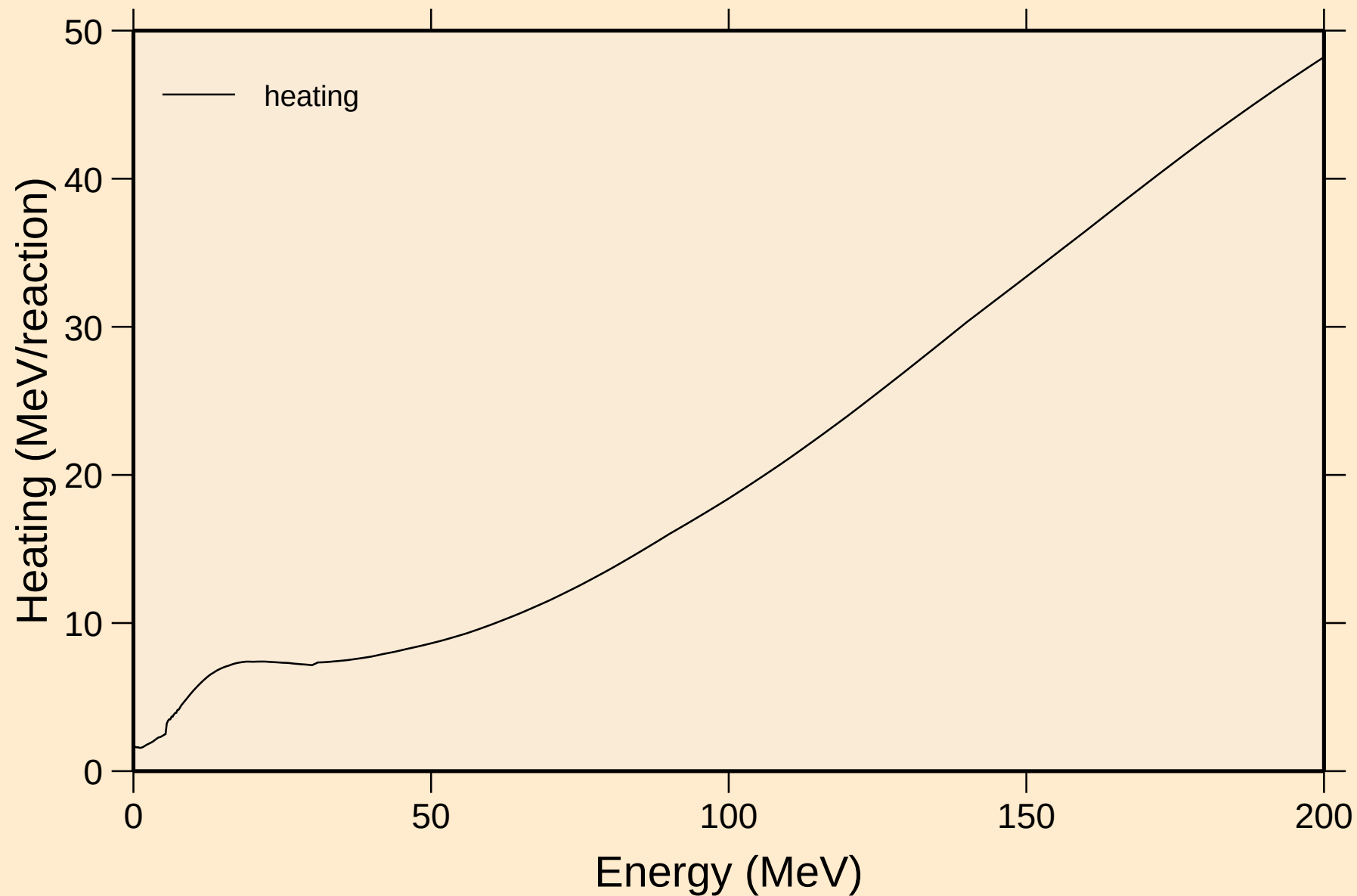
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## Principal cross sections



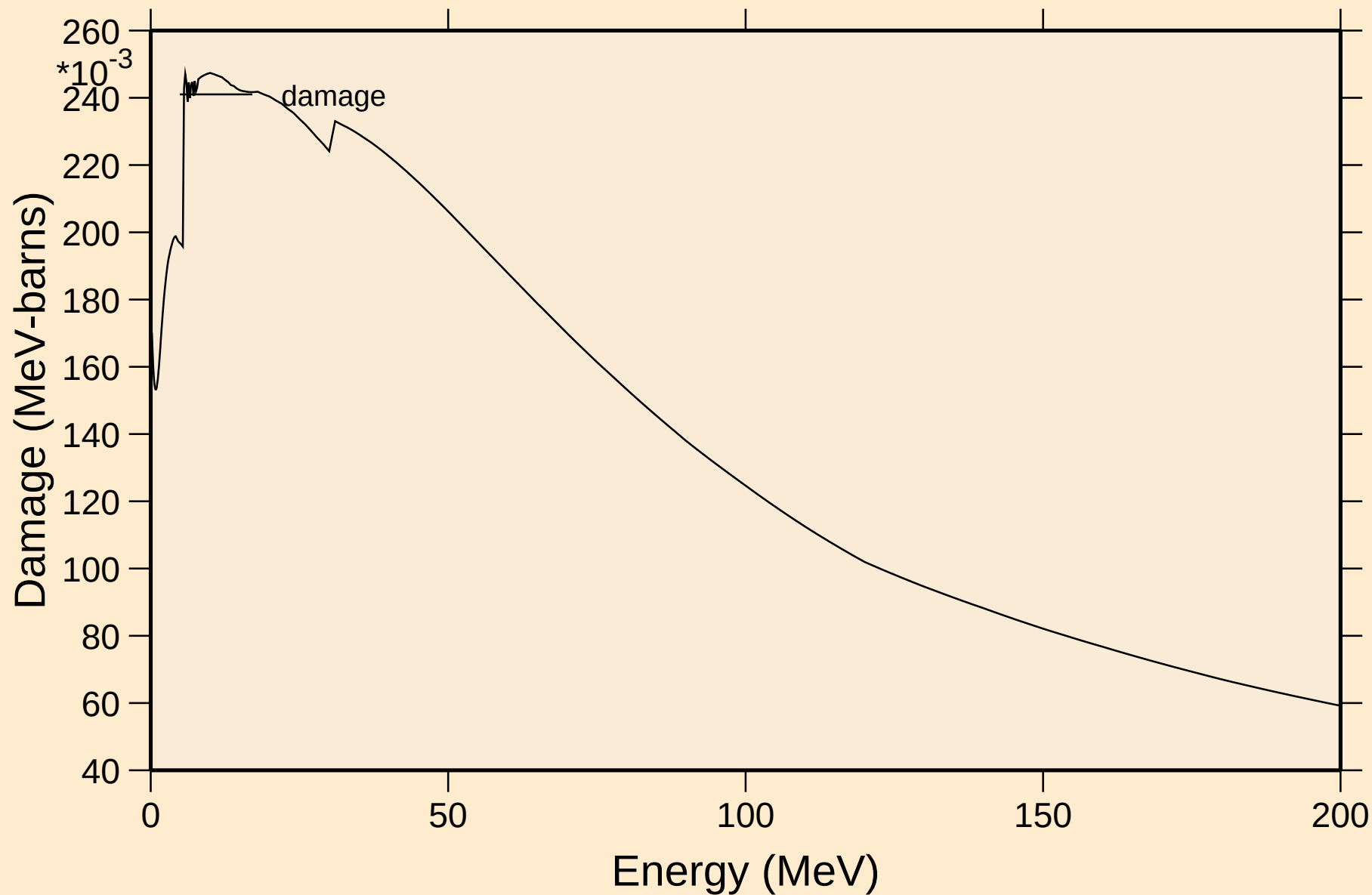
# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Heating

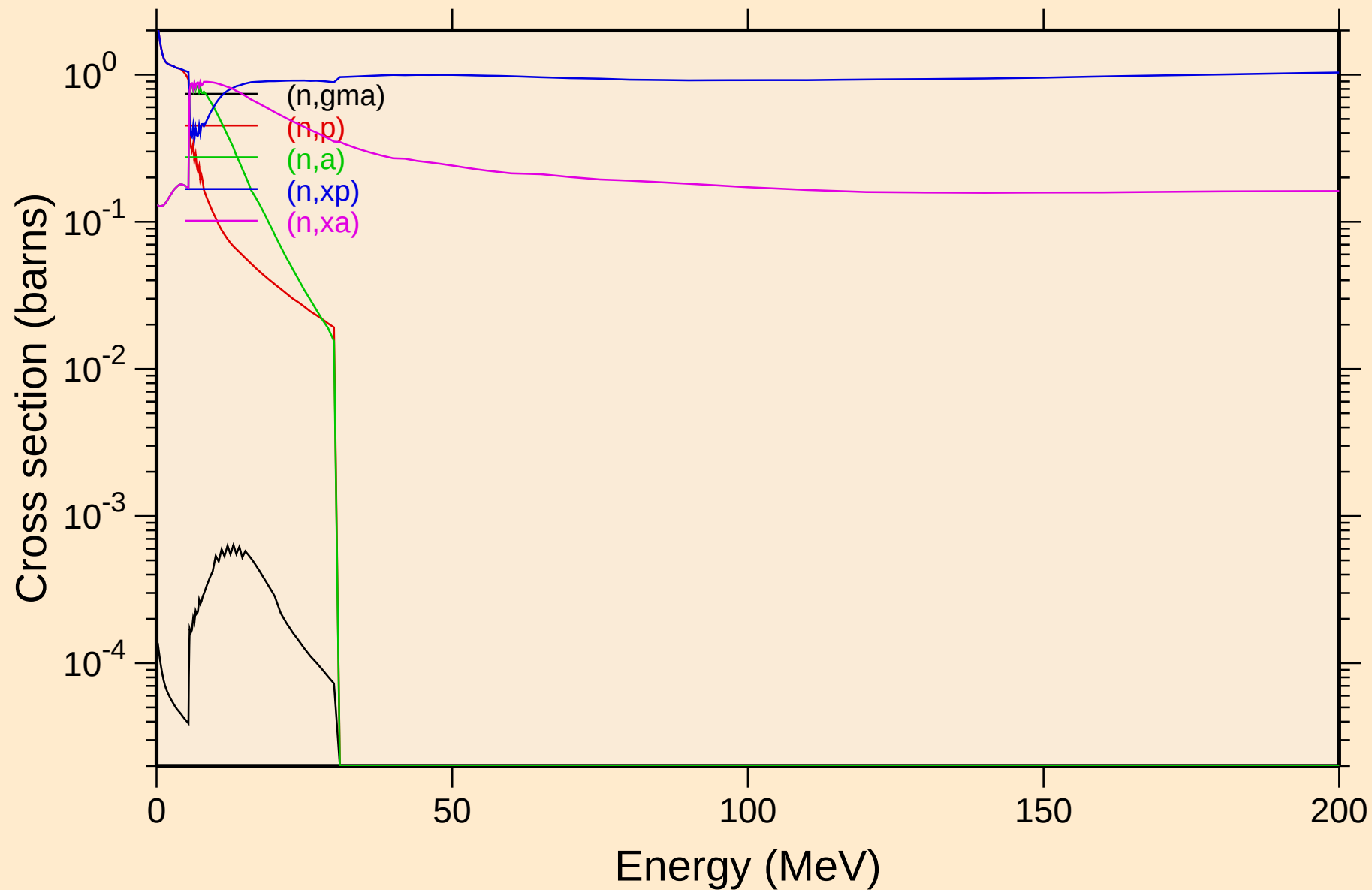


# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Damage

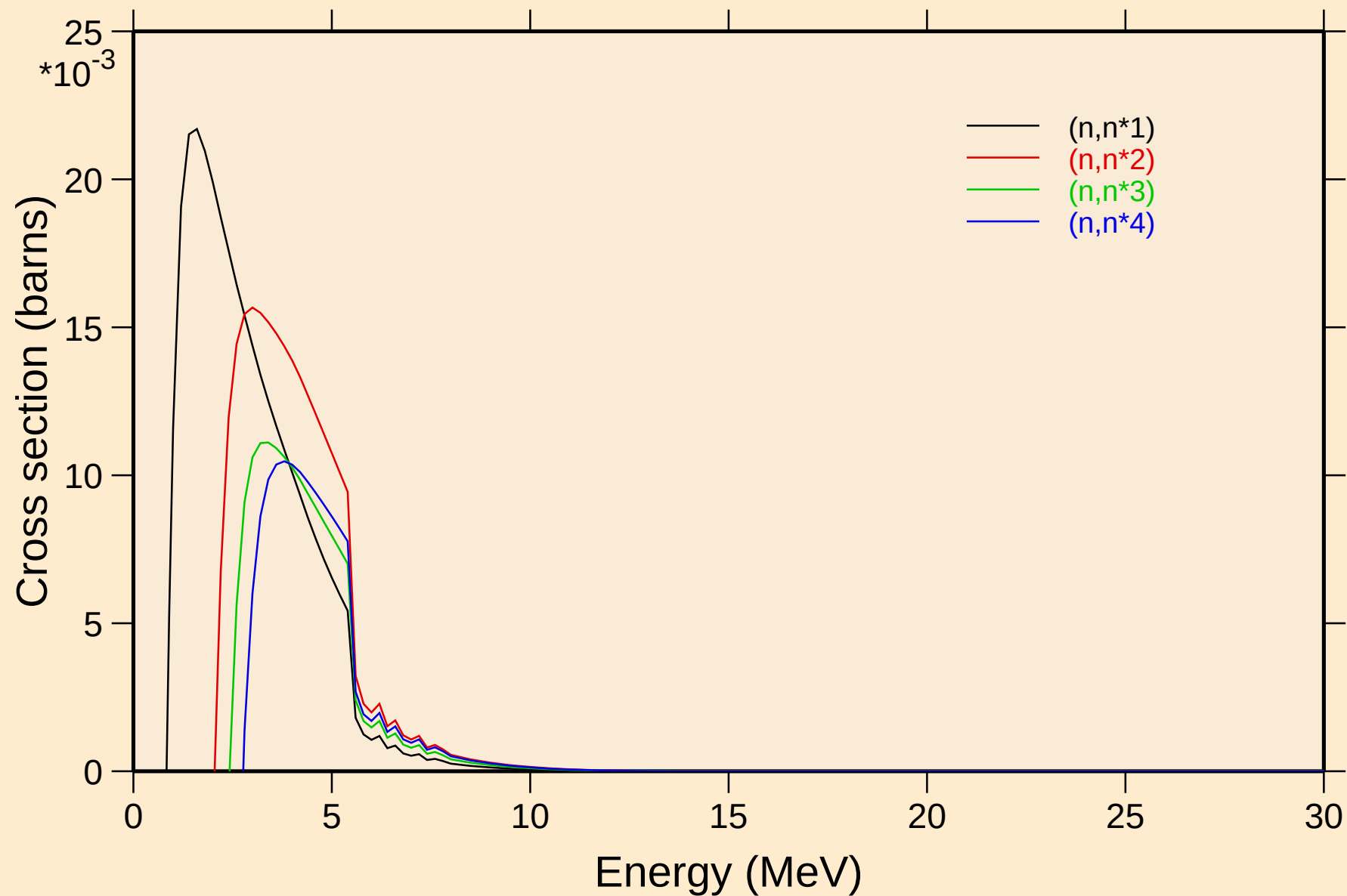


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



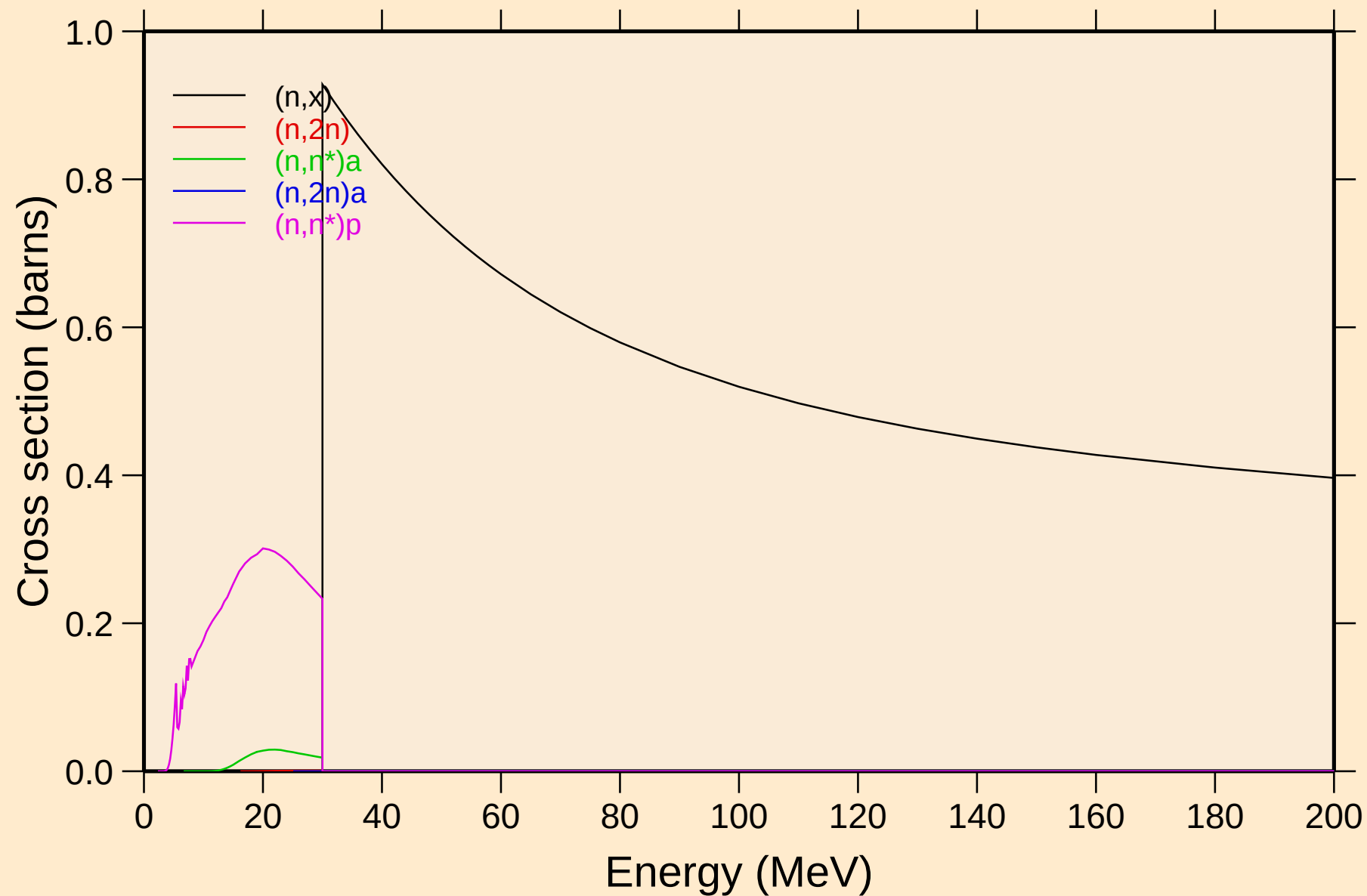
# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Inelastic levels



# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

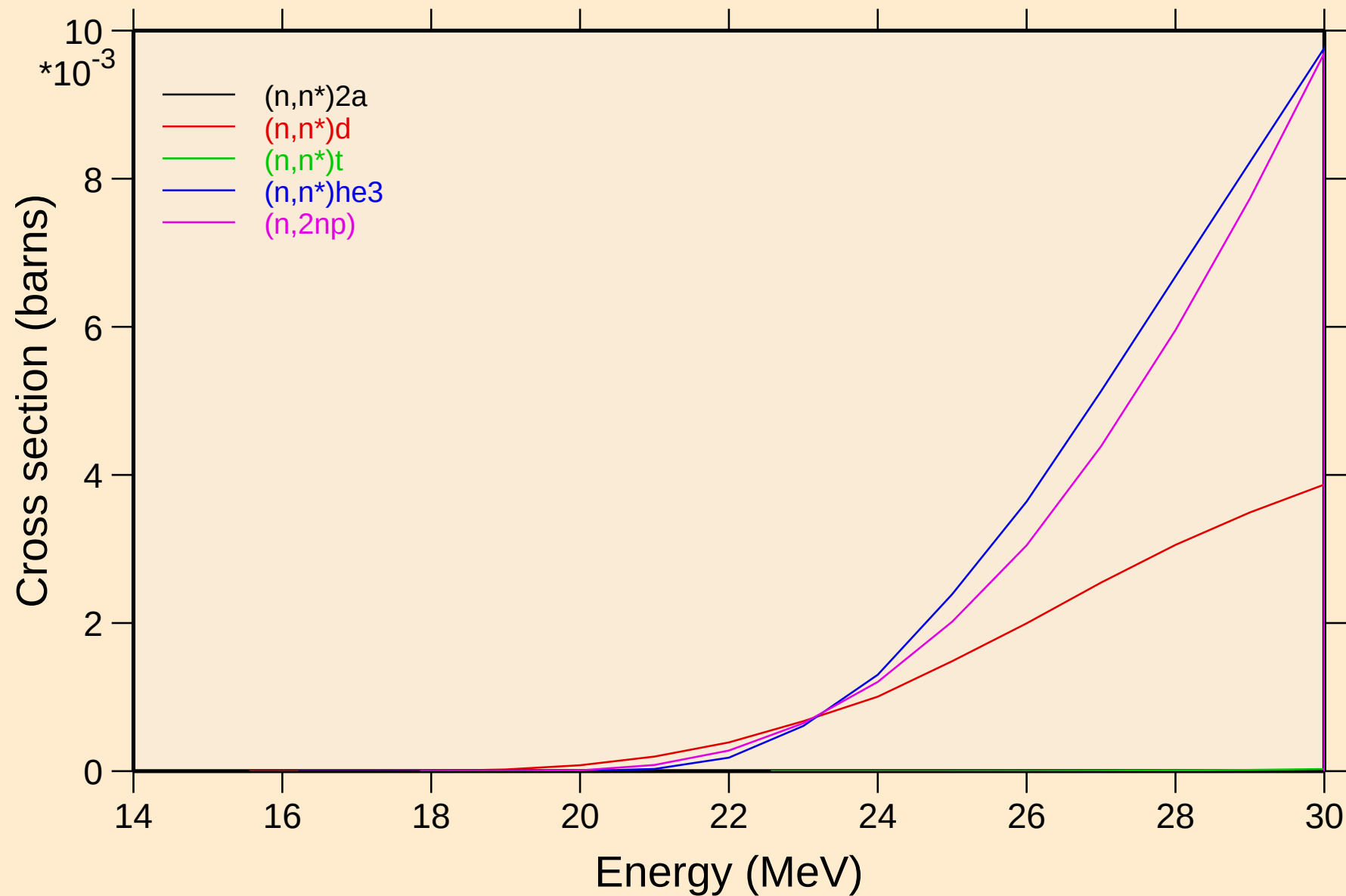
Threshold reactions





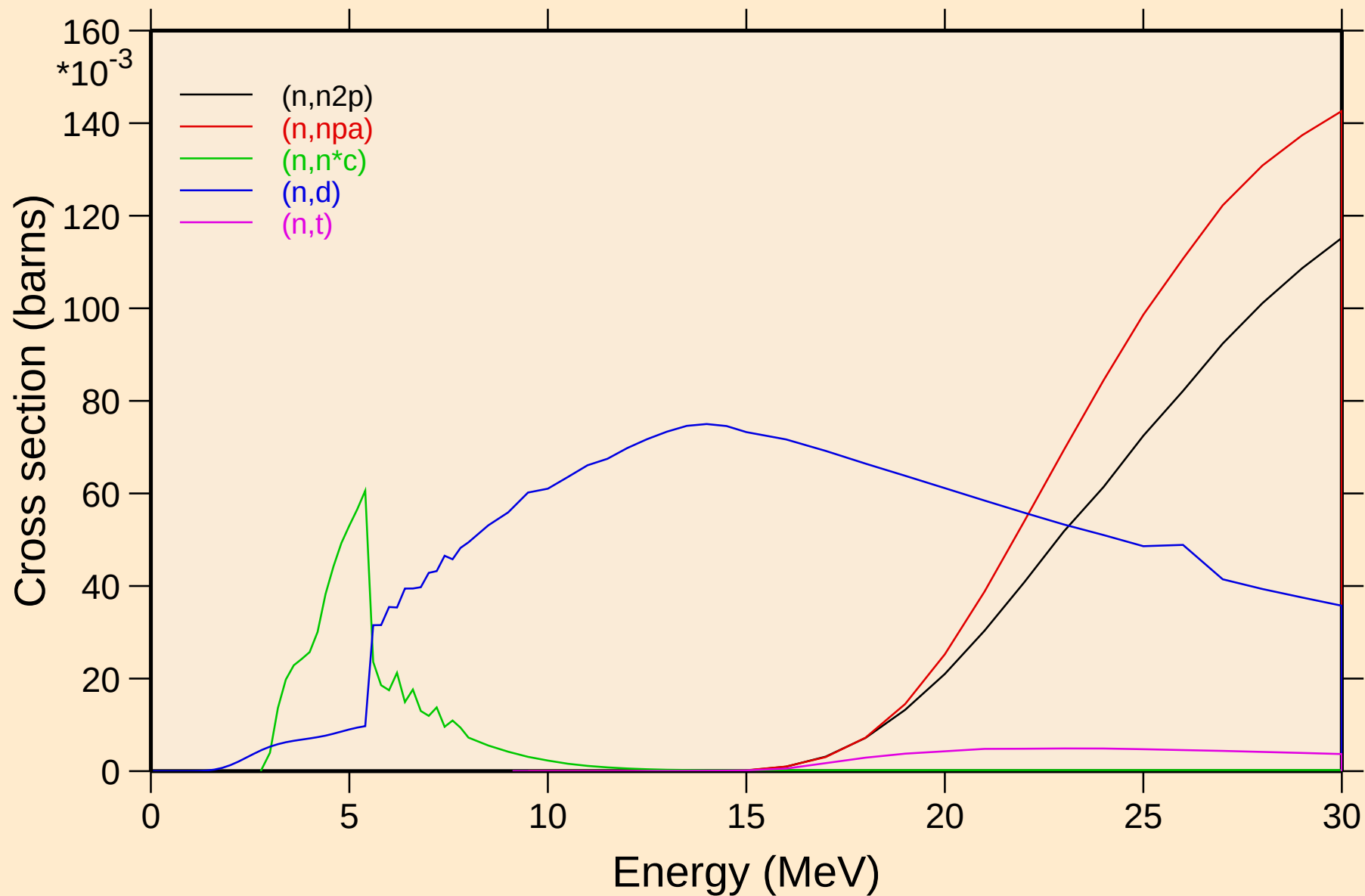
# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Threshold reactions

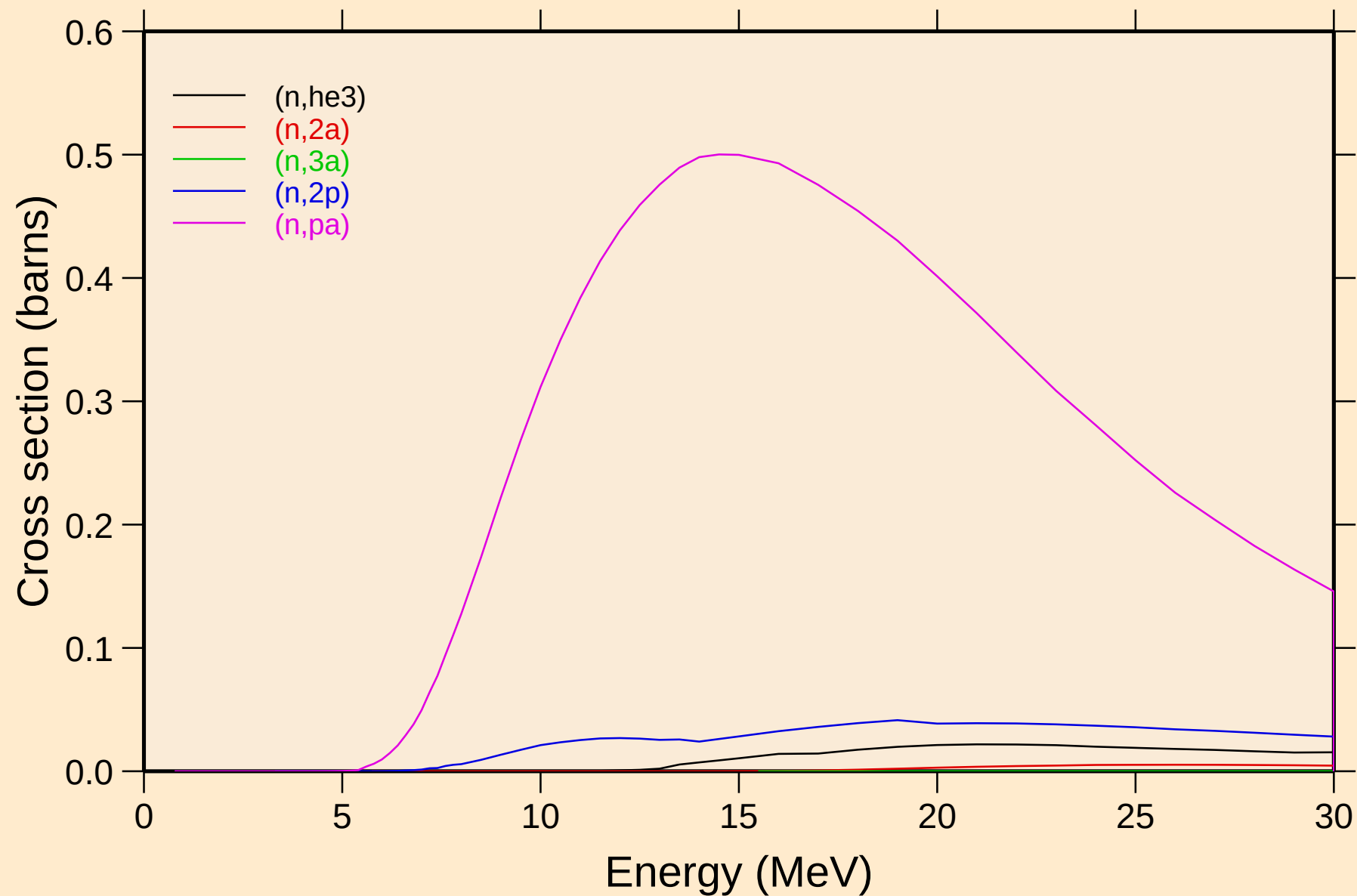


# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

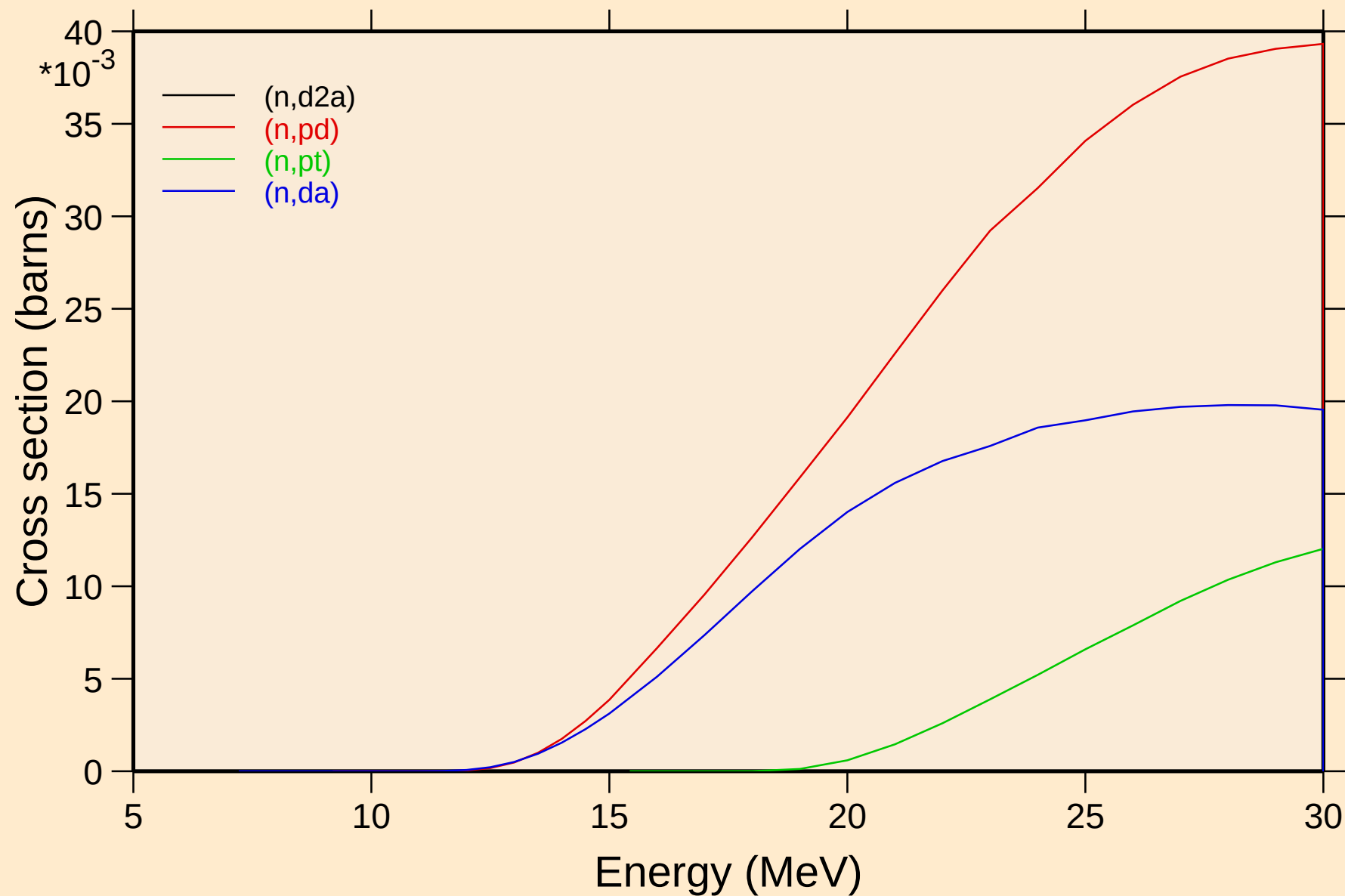


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

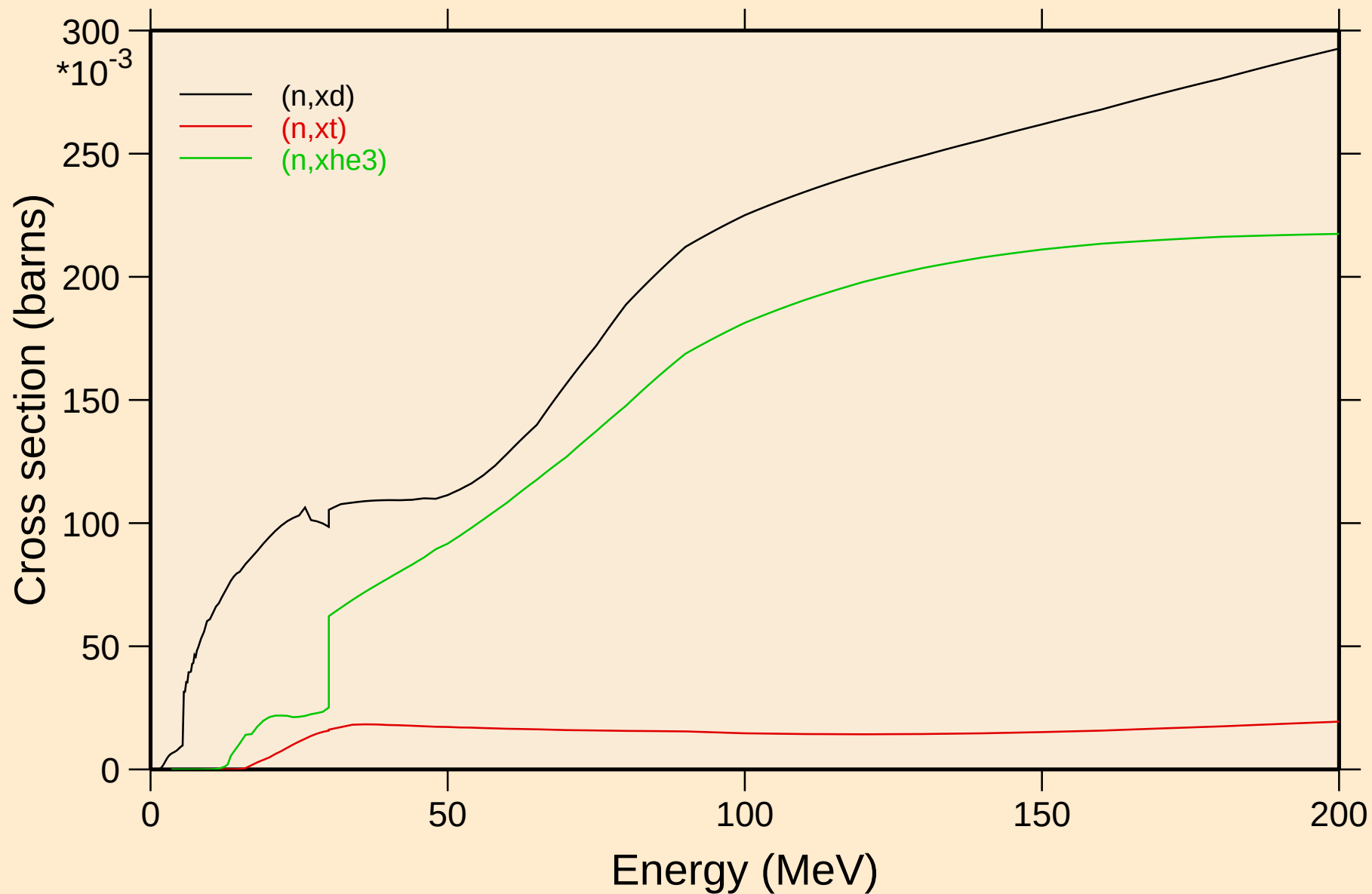


# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

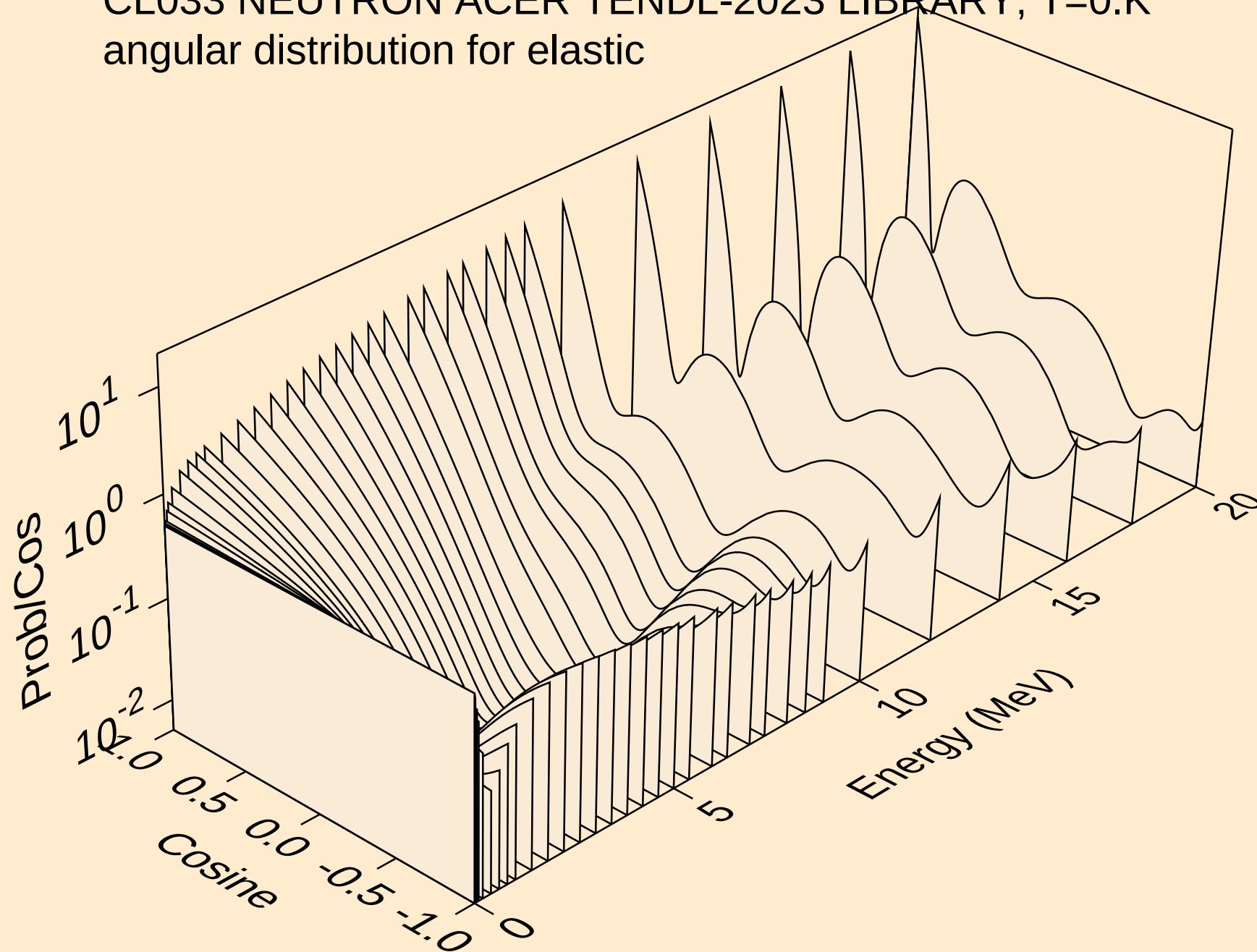
## Threshold reactions



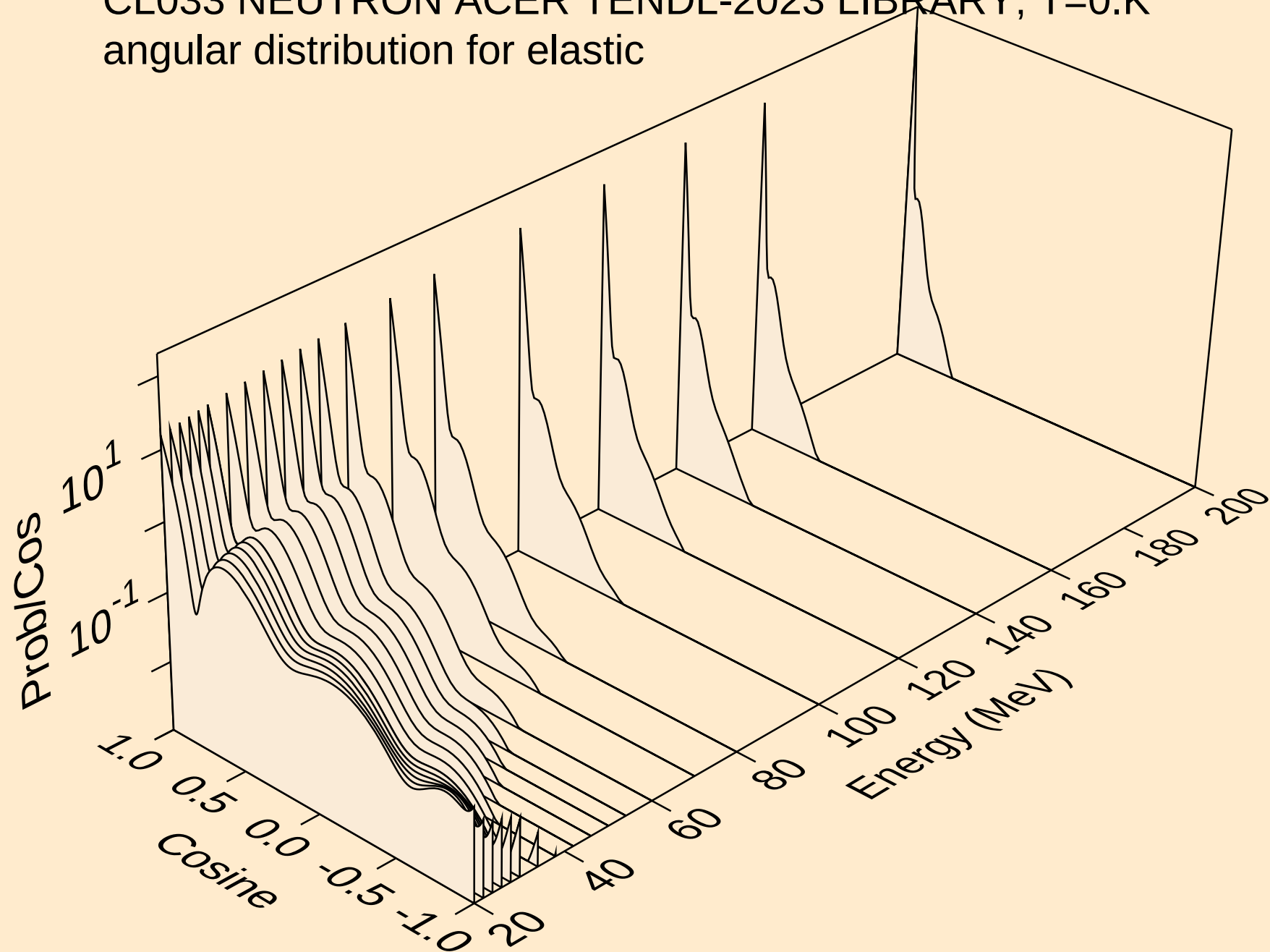
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



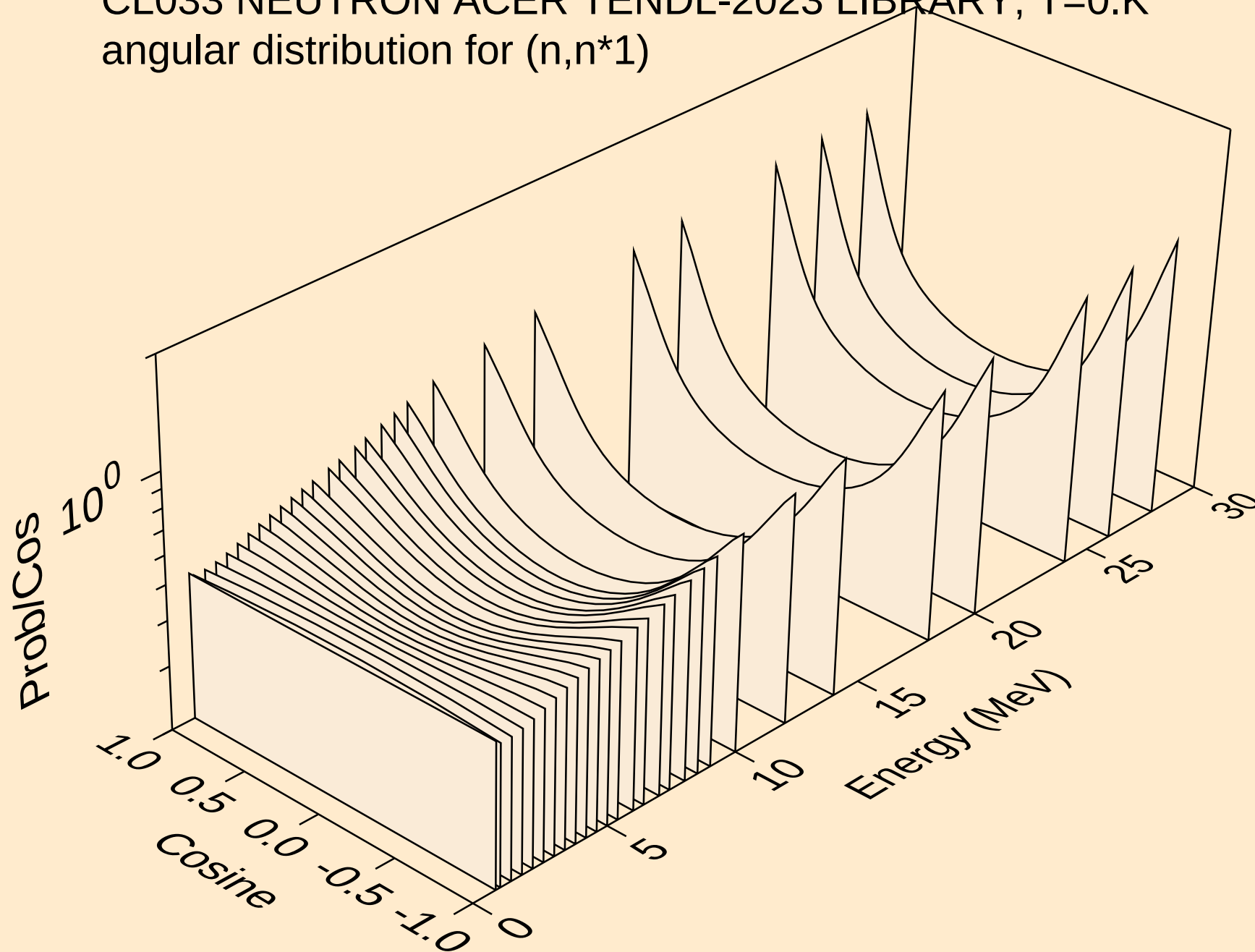
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

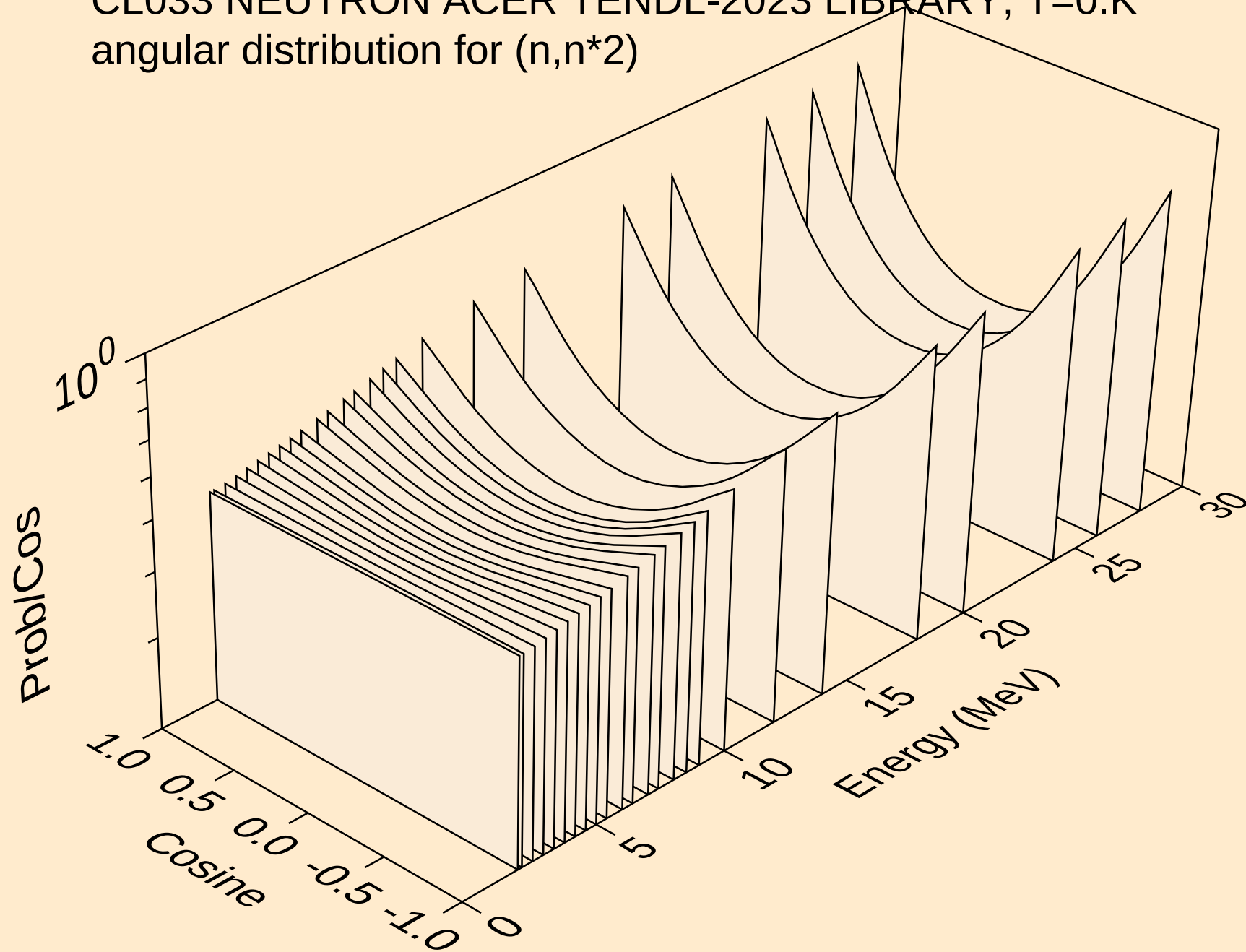


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)

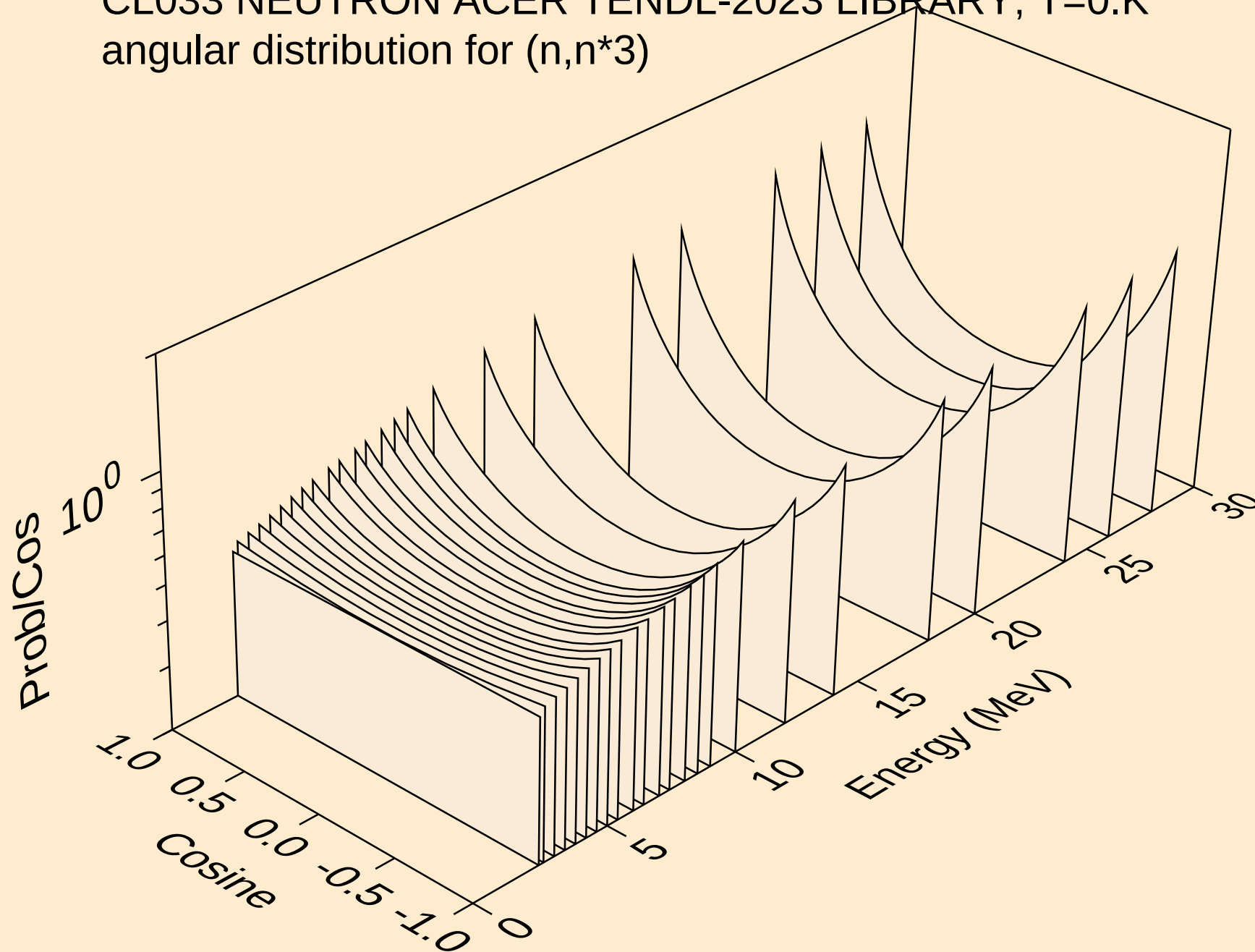




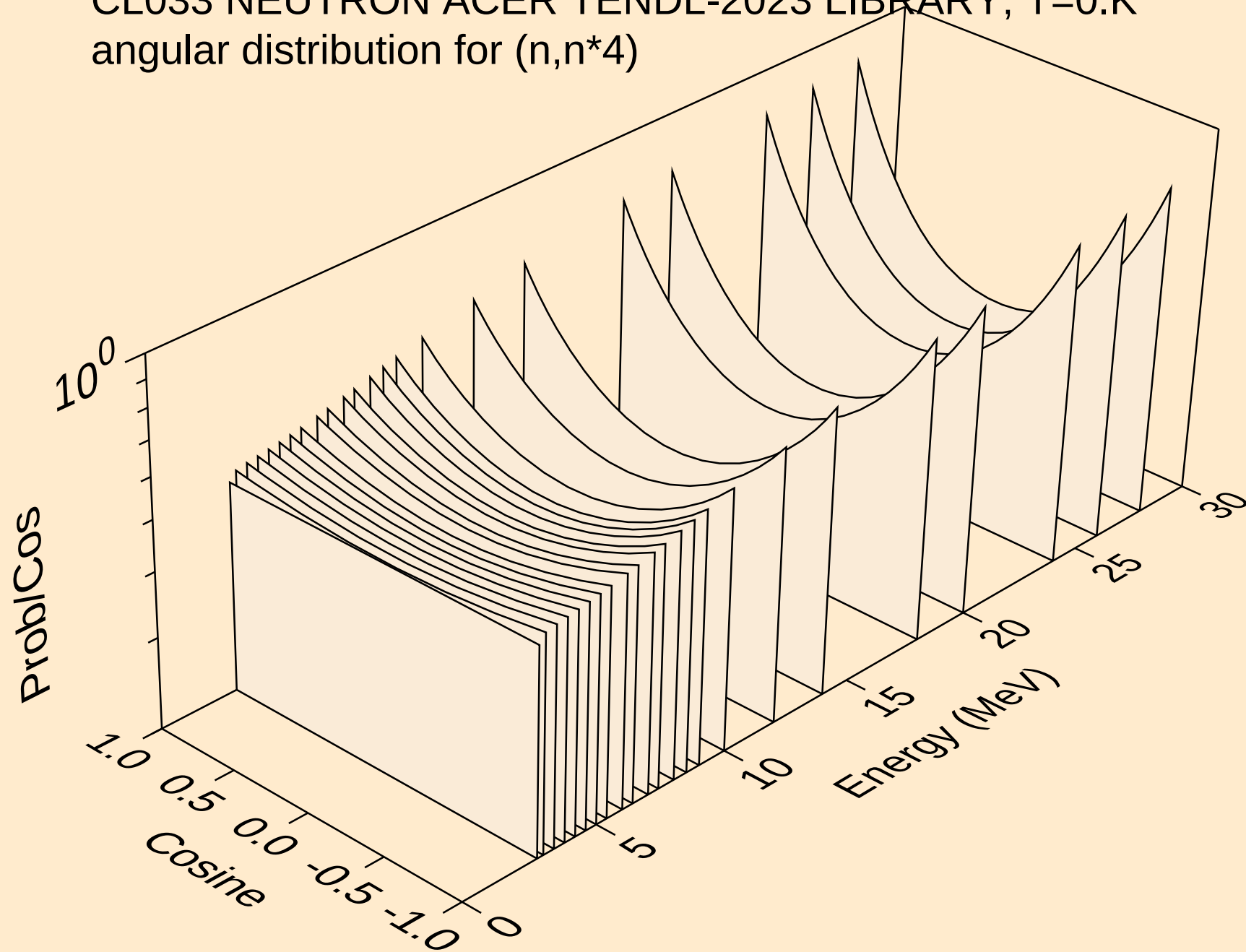
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angular distribution for (n,n\*2)



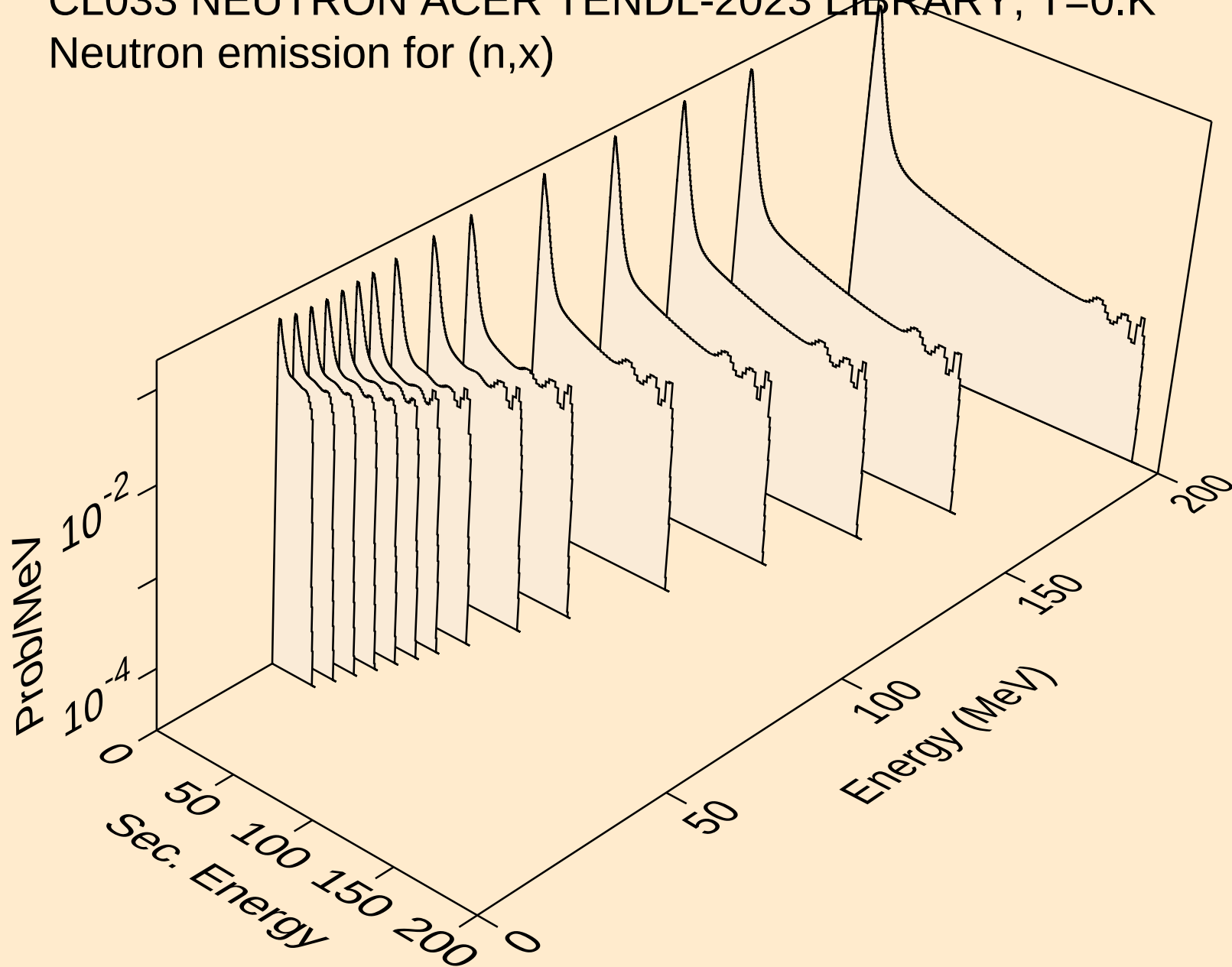
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angular distribution for (n,n\*3)



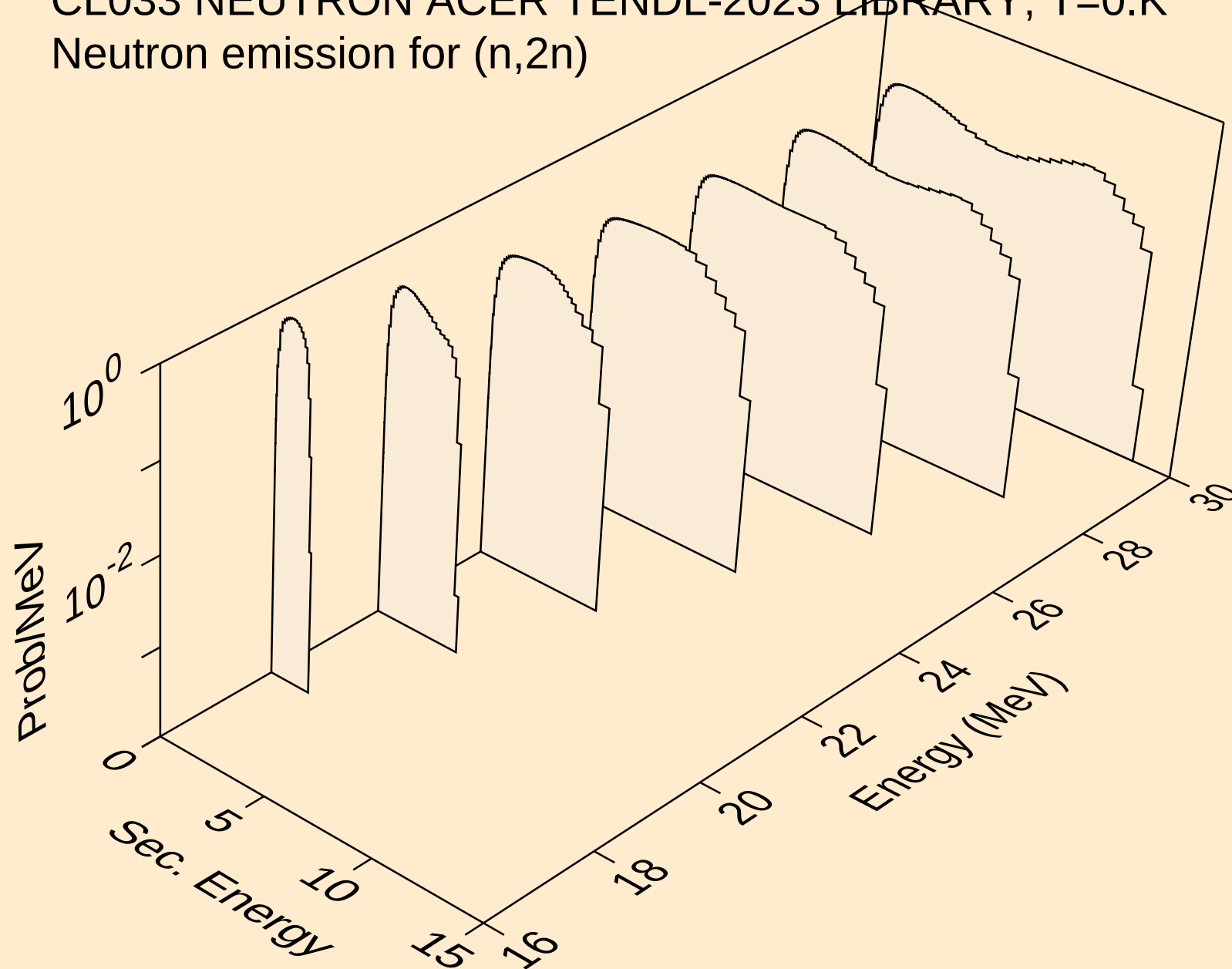
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)

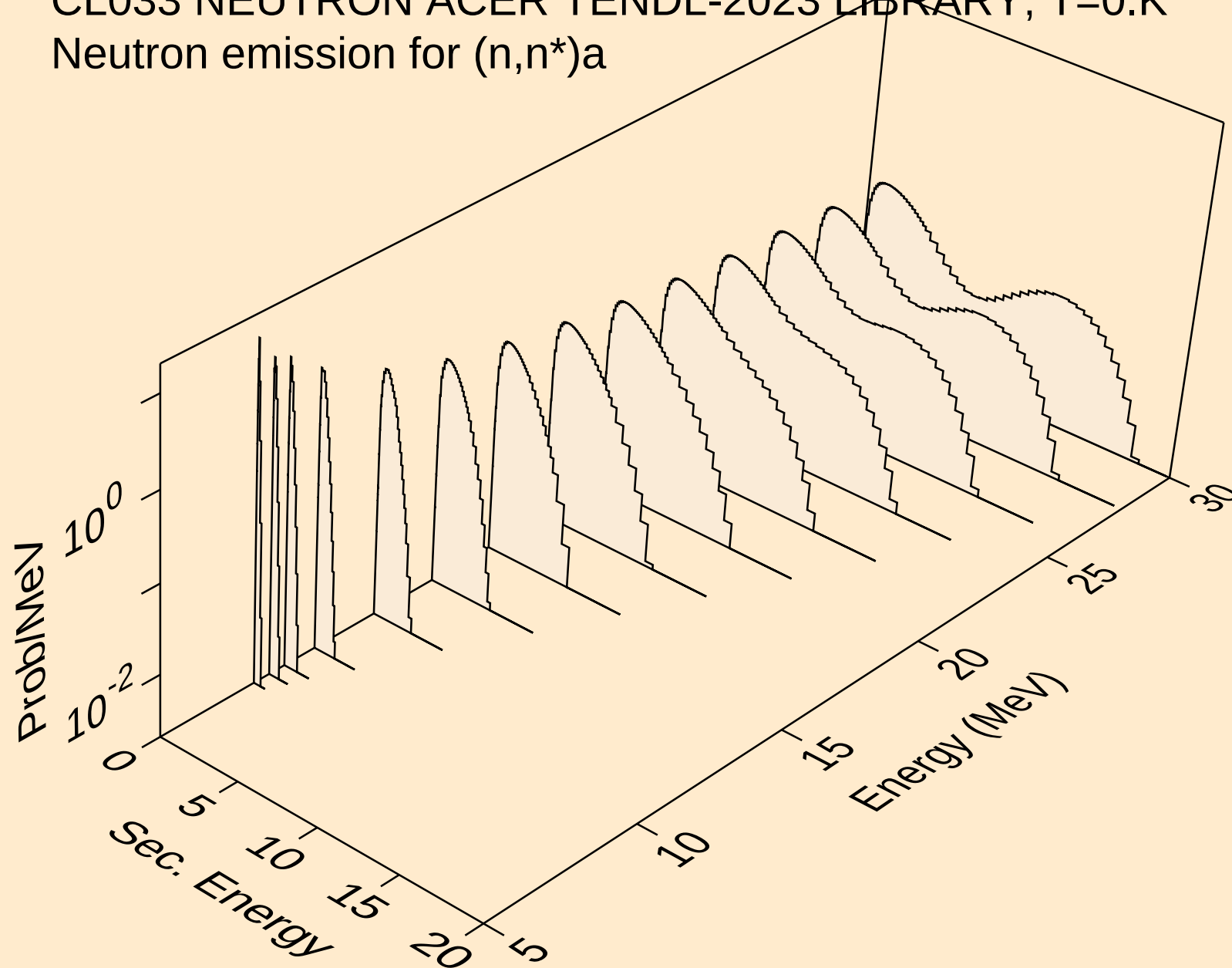


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)

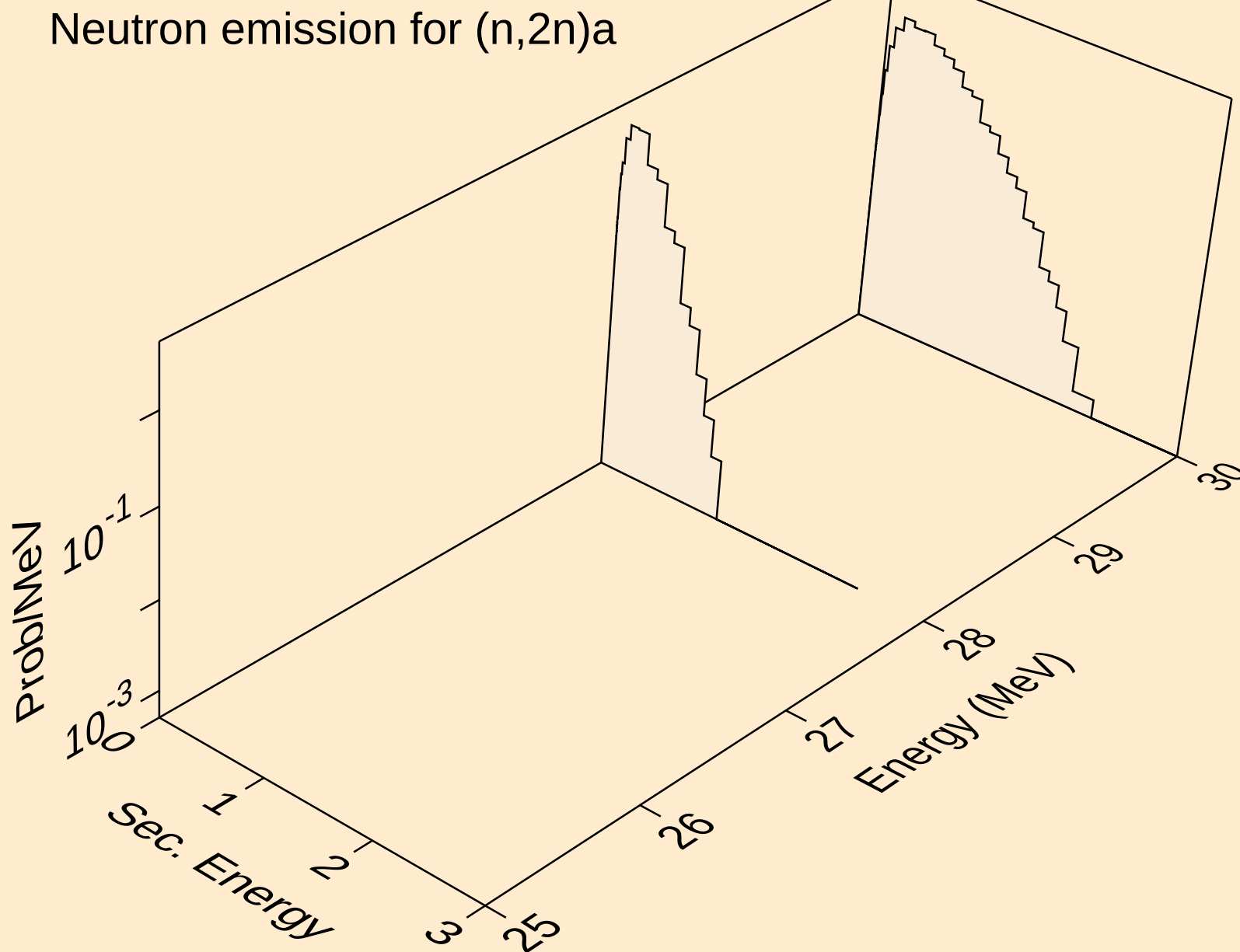


# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

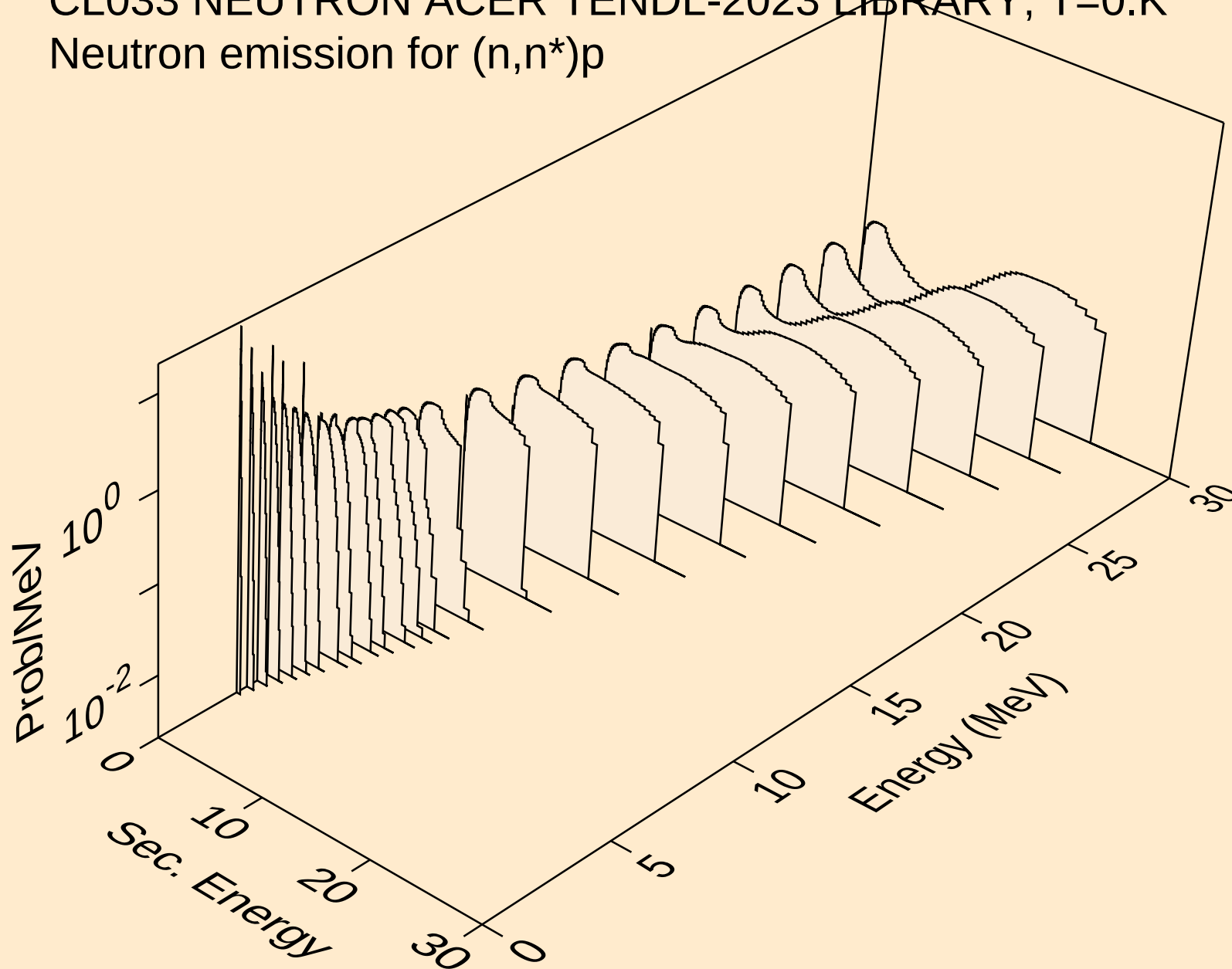
Neutron emission for (n,n\*)a



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)<sub>a</sub>



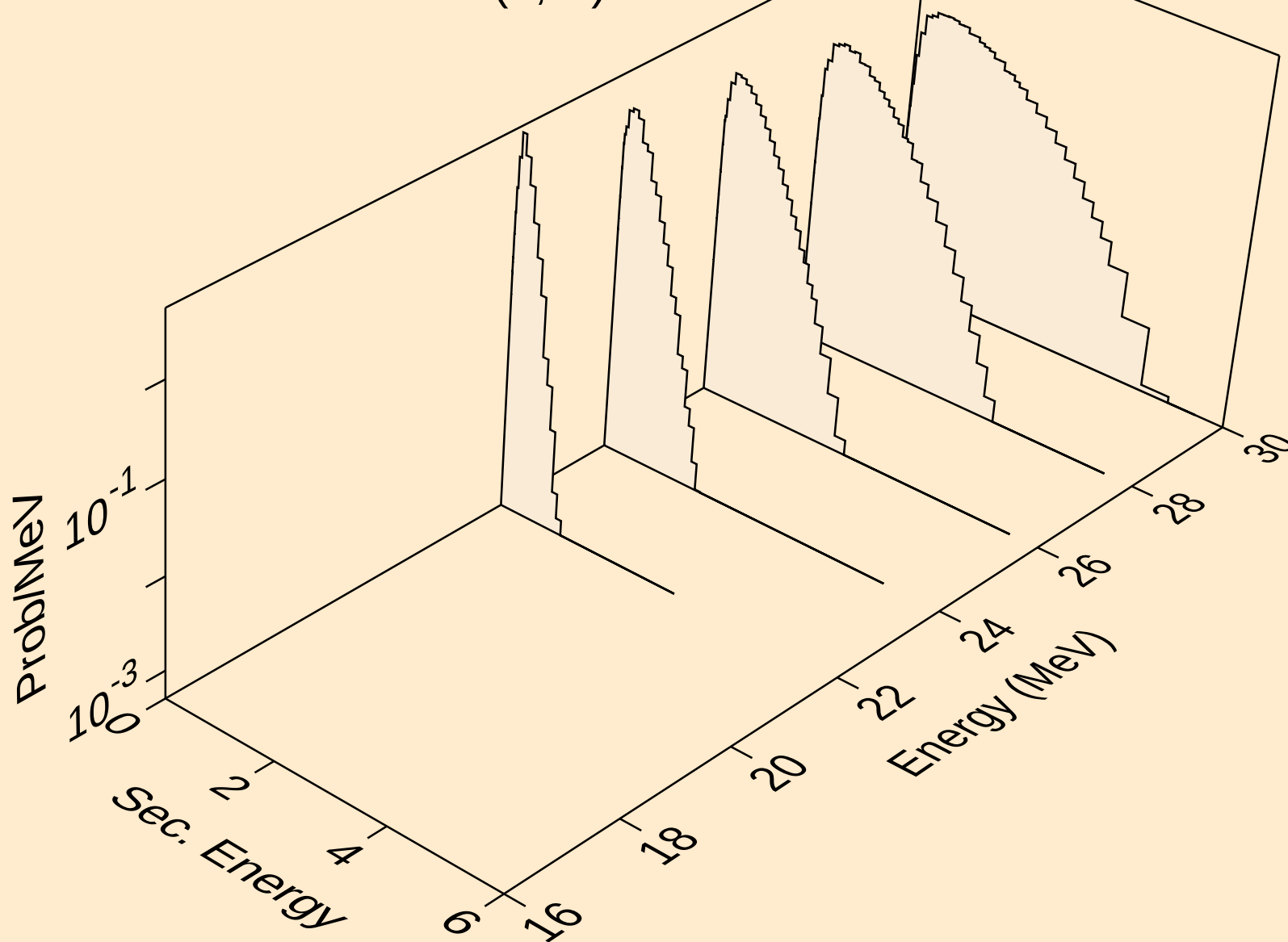
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



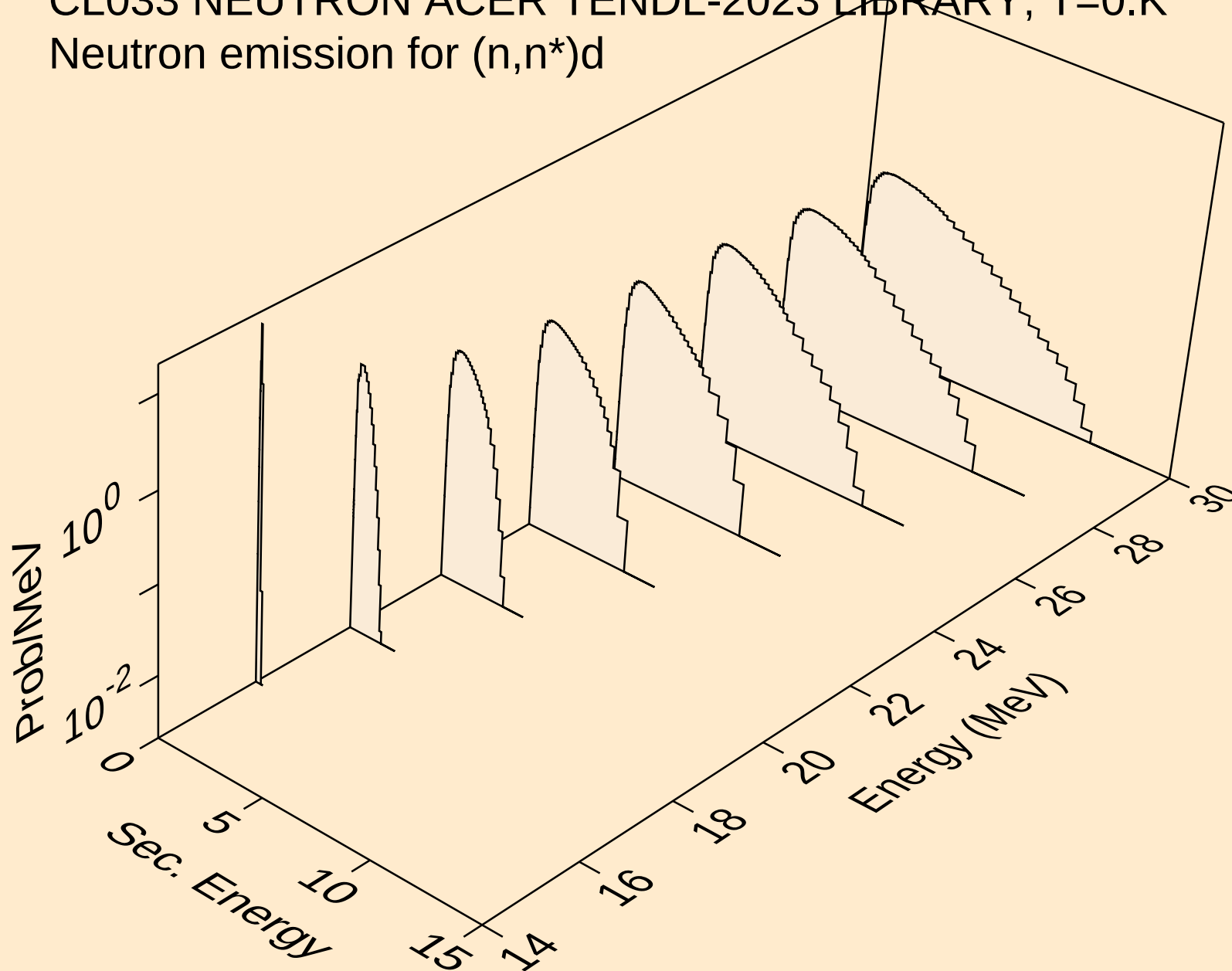


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

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

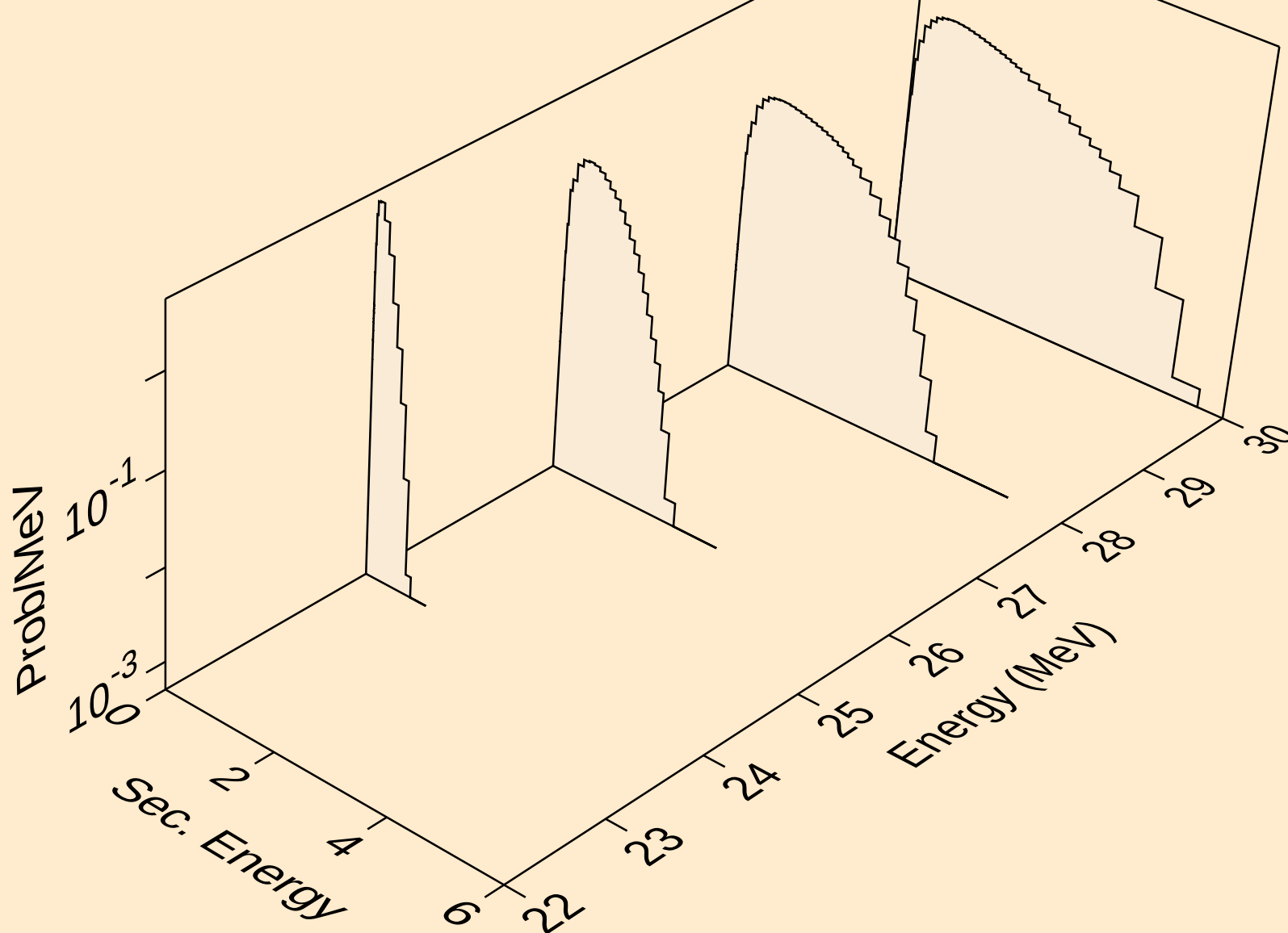


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

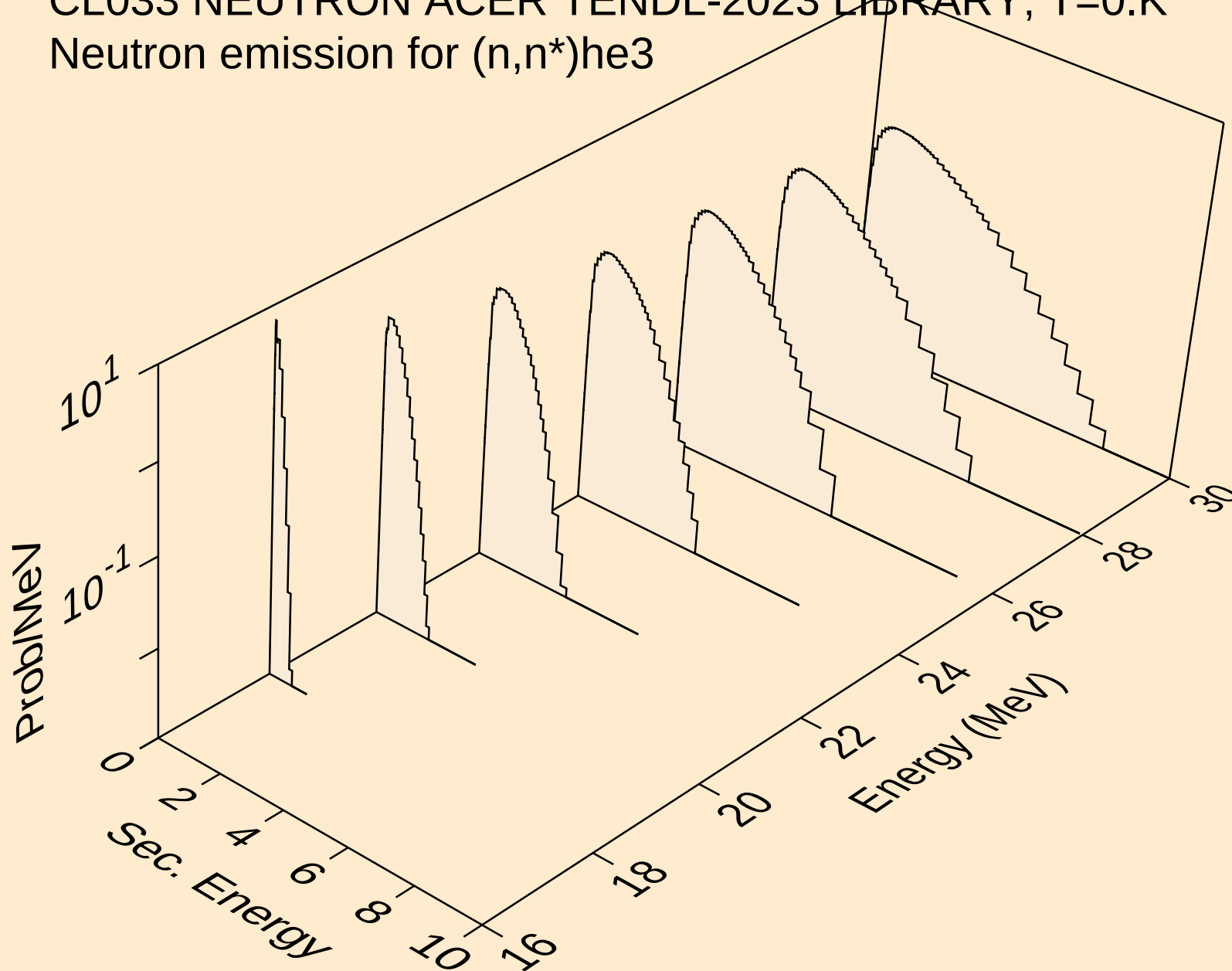


# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

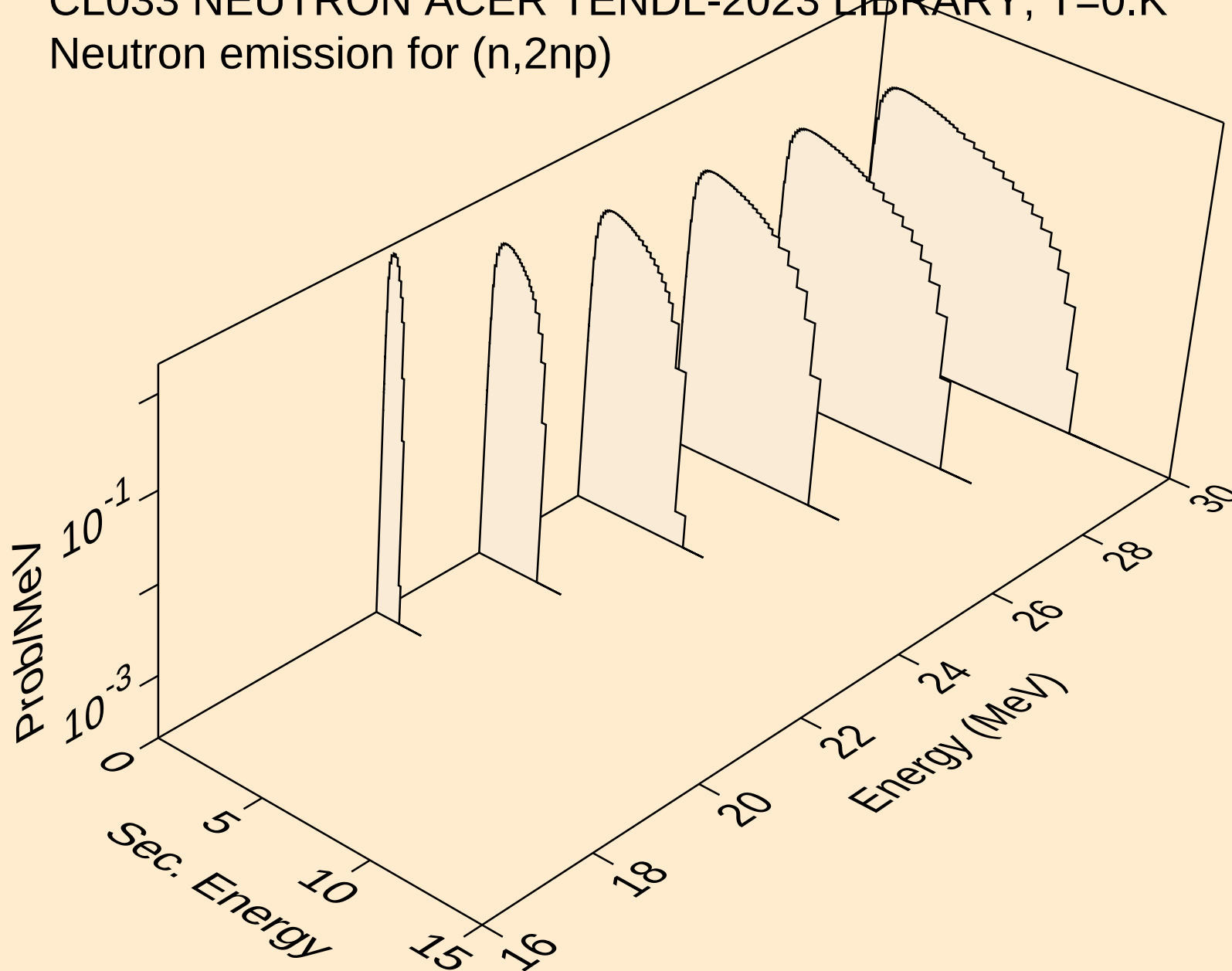
Neutron emission for (n,n\*)t



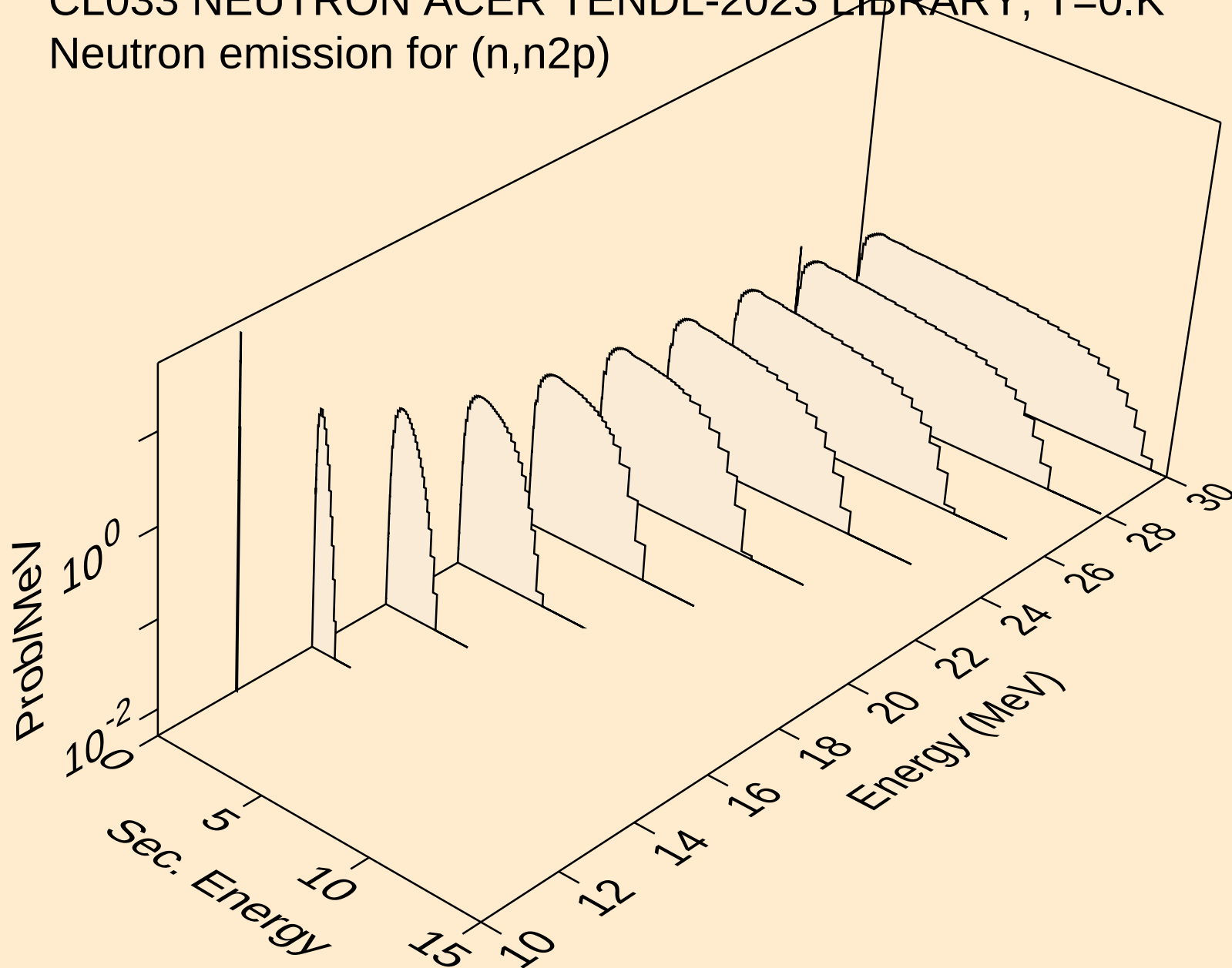
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



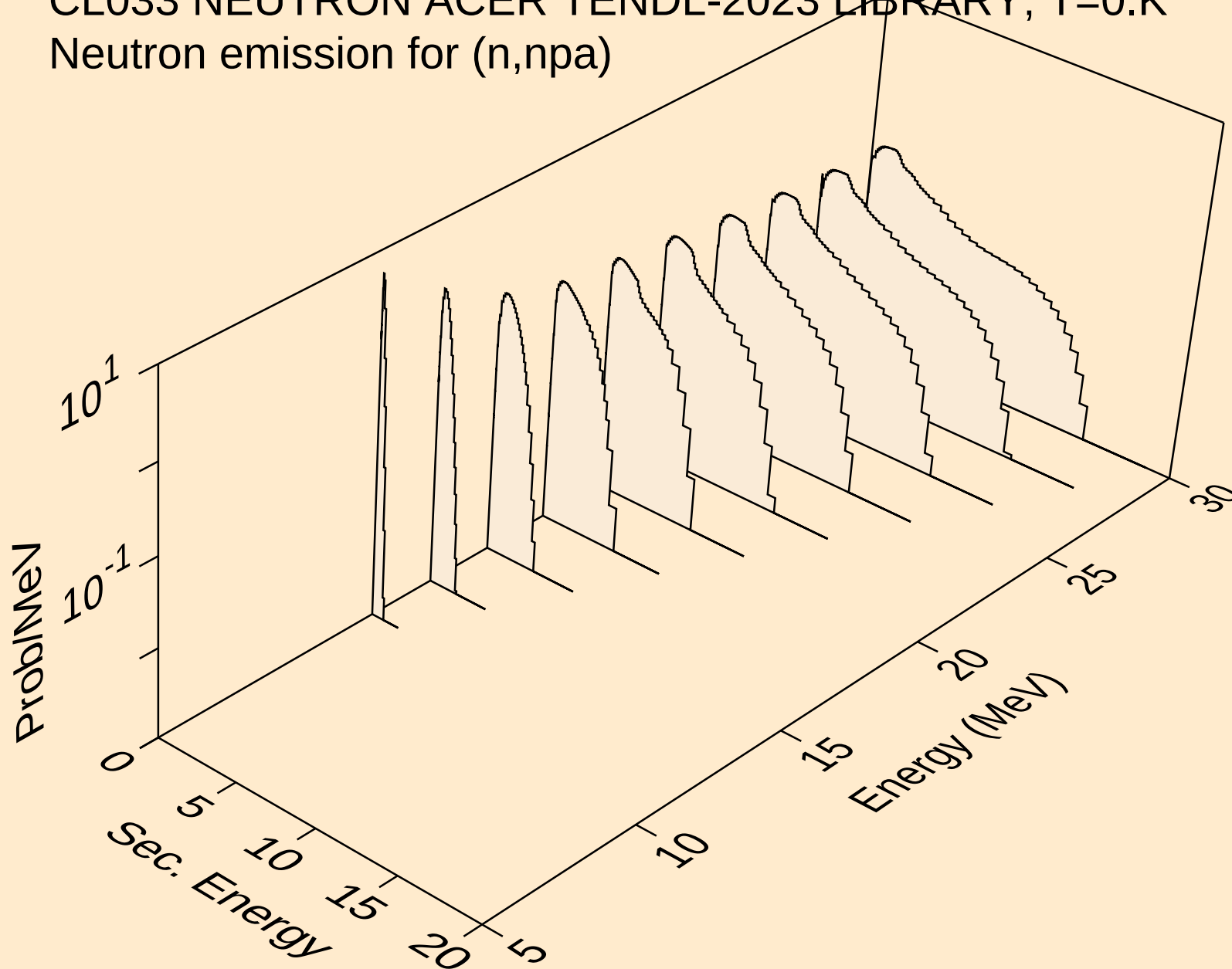
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



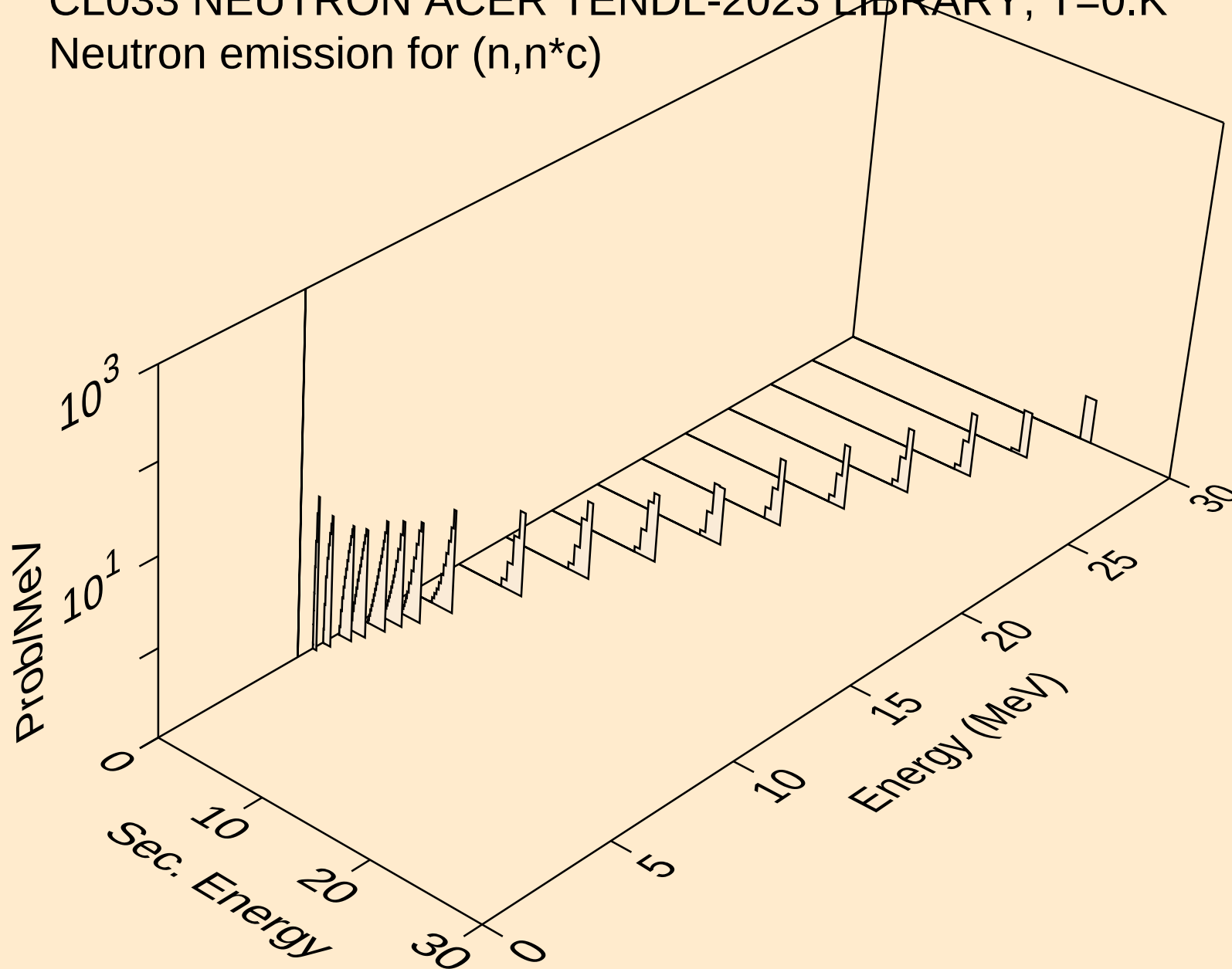
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)

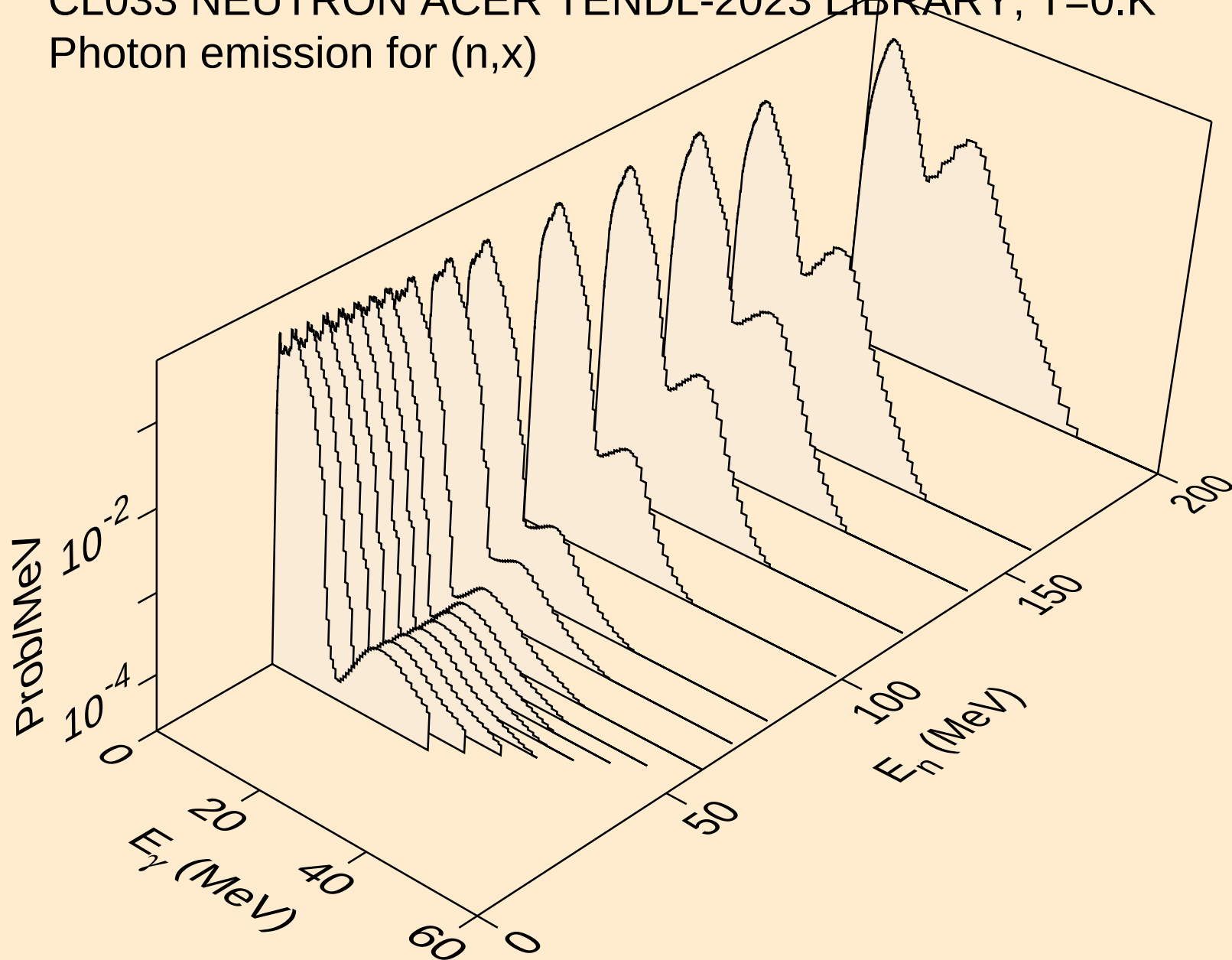


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)

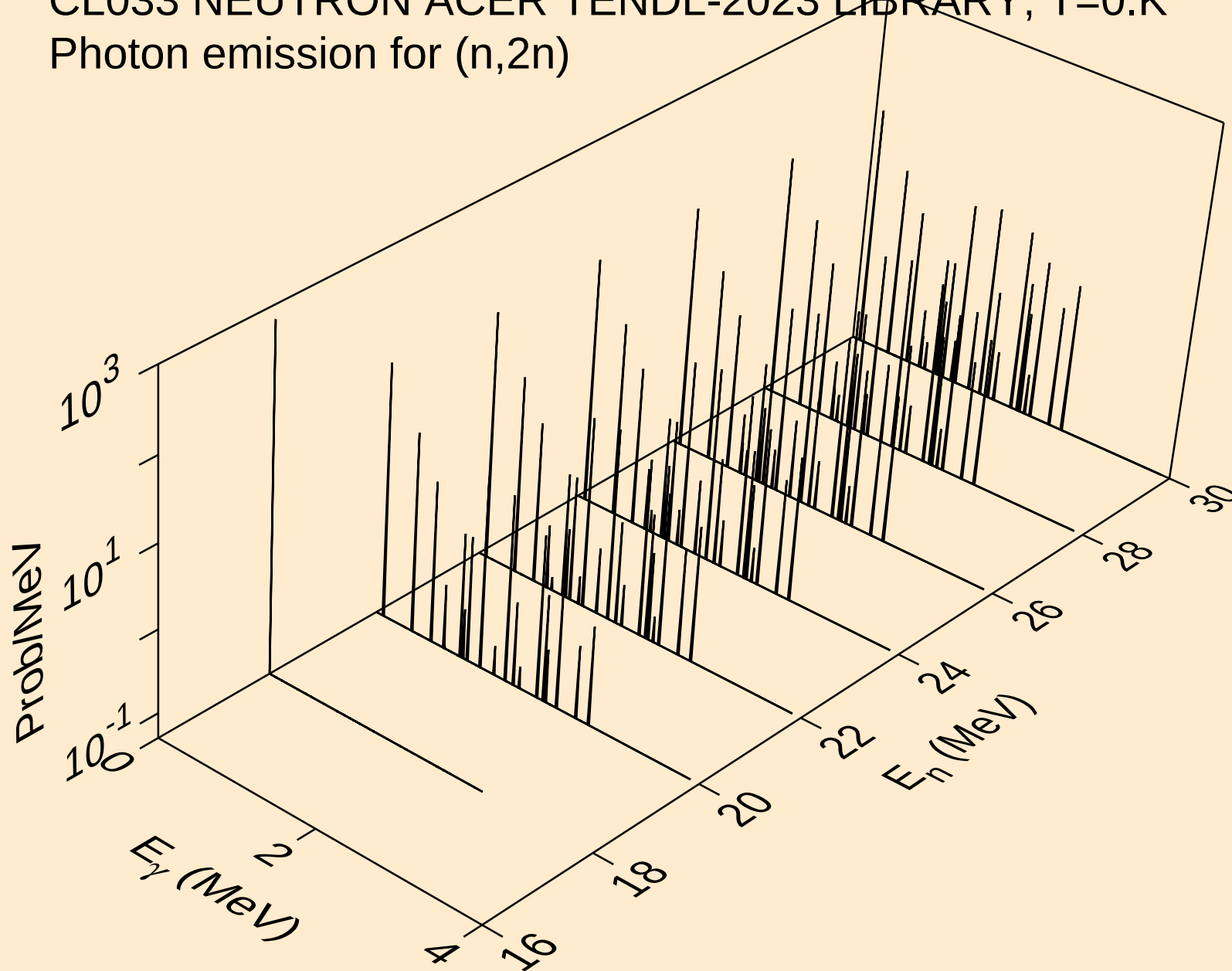




CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)

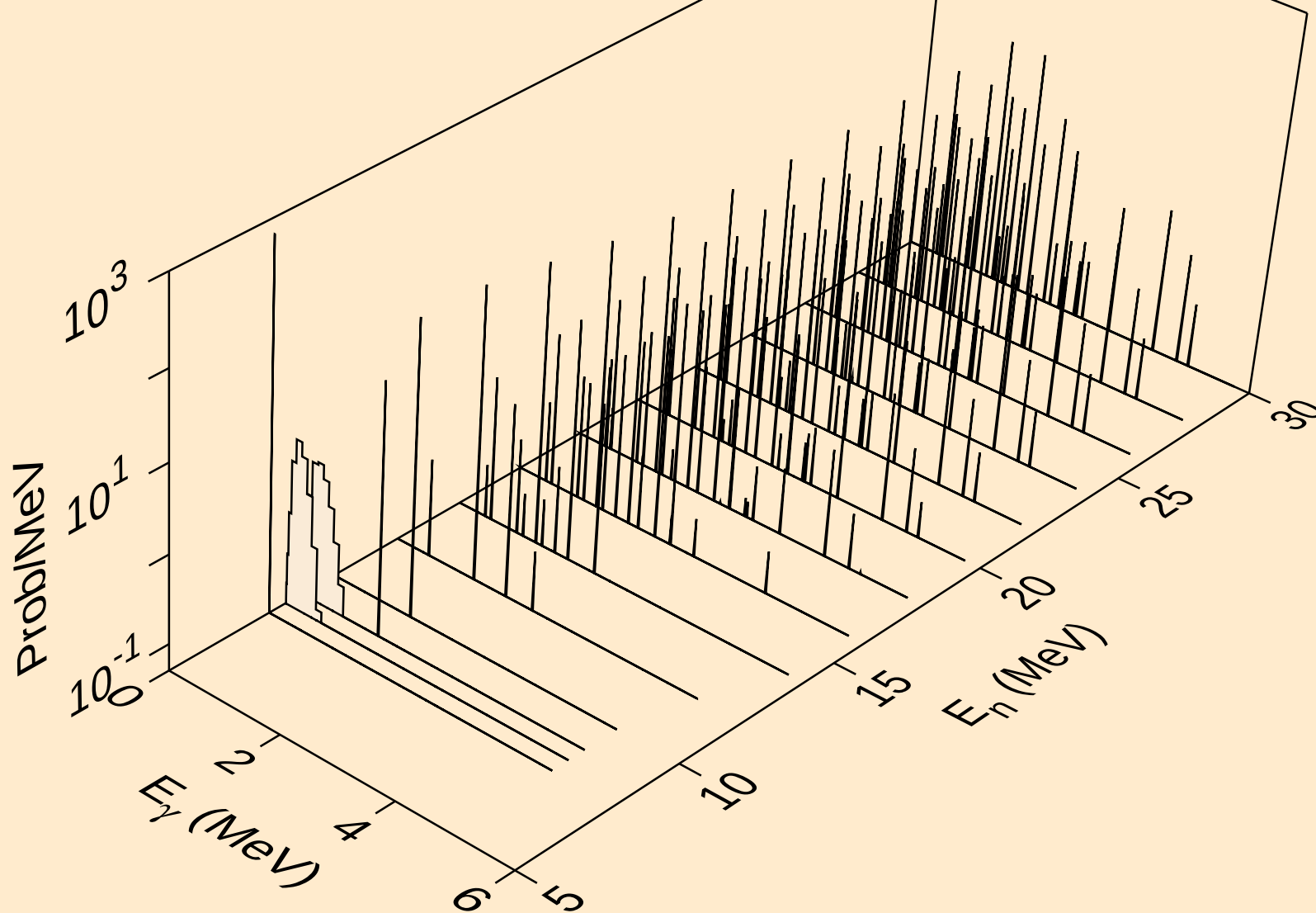


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



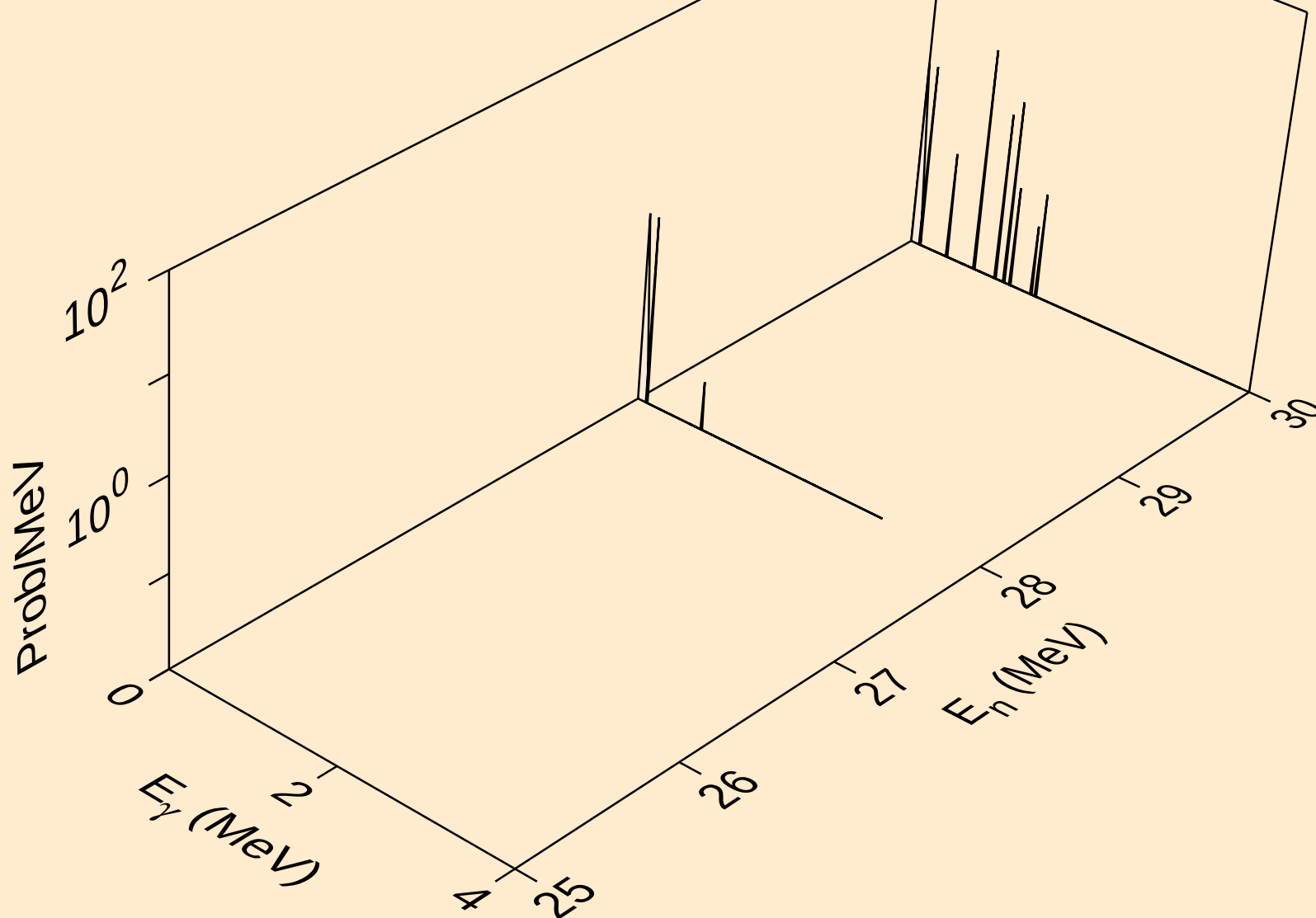
# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)a



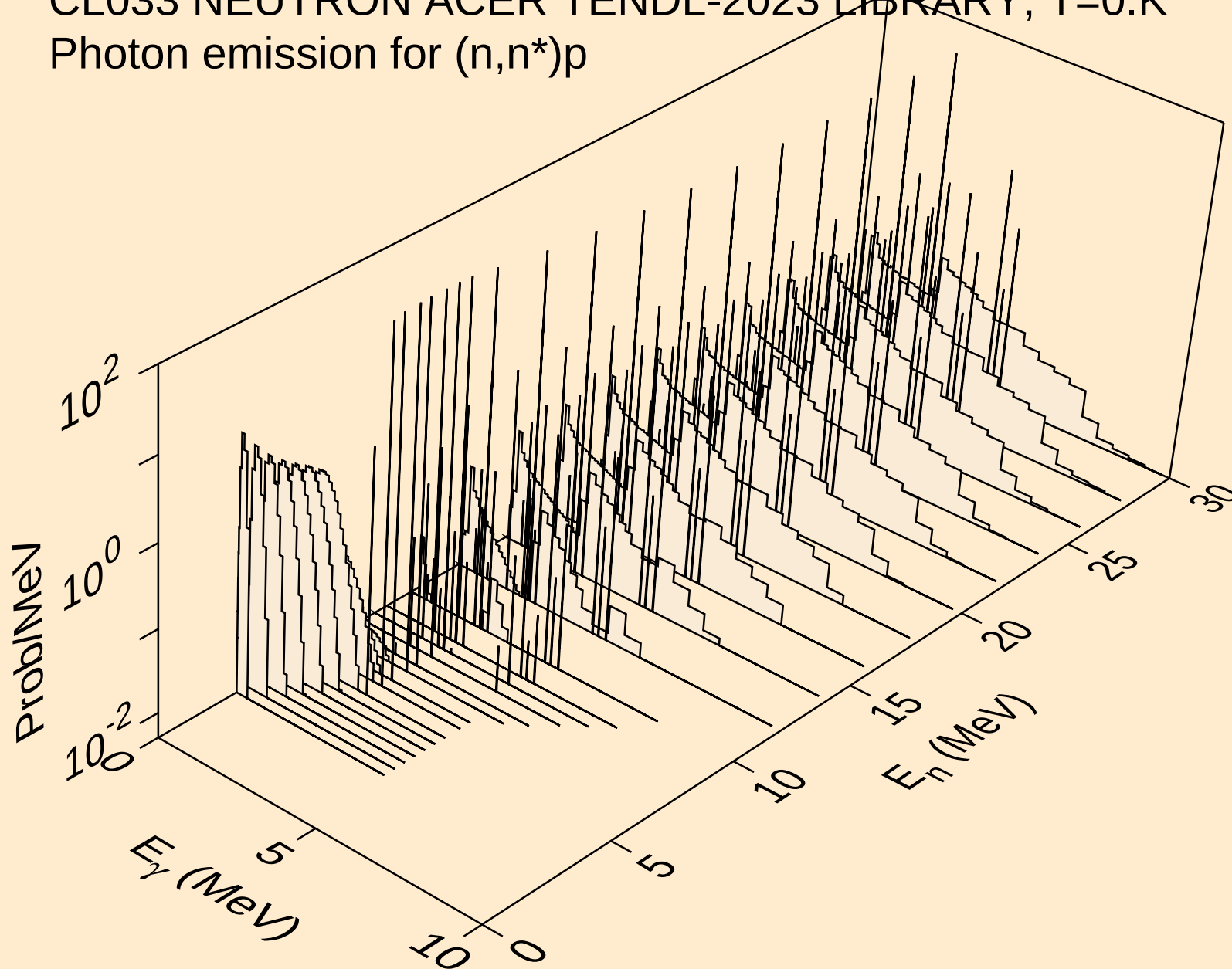
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

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



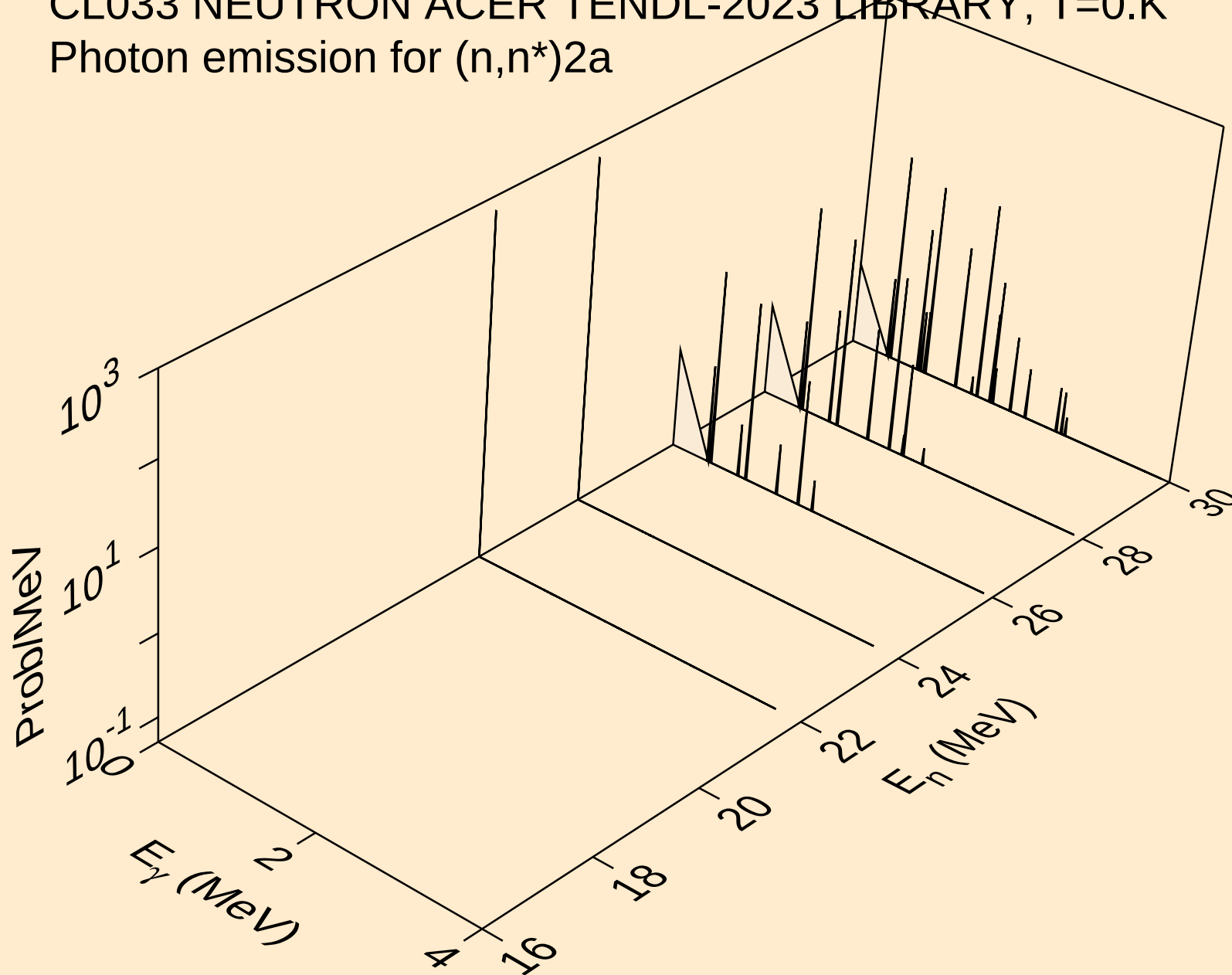
# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)p



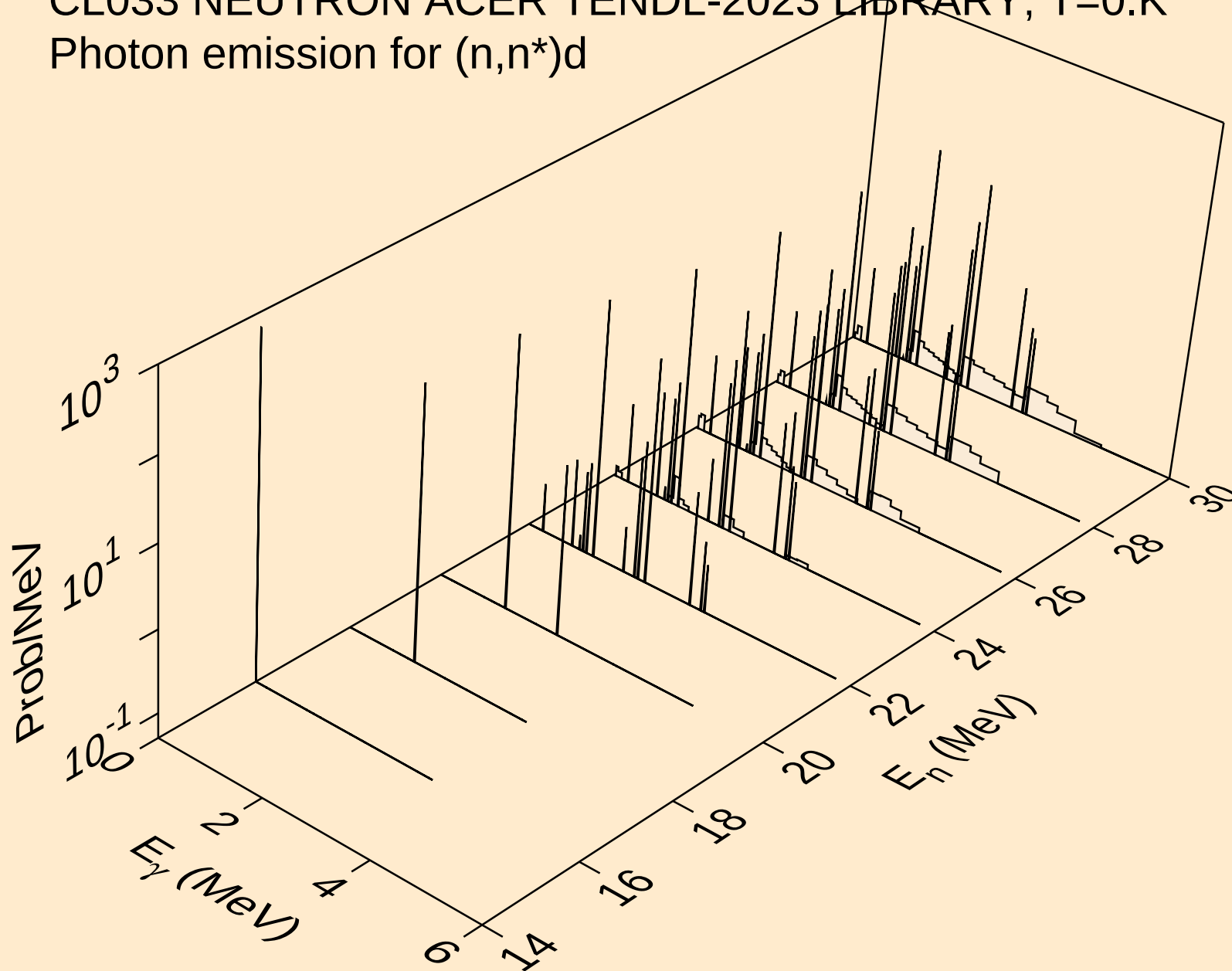
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

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



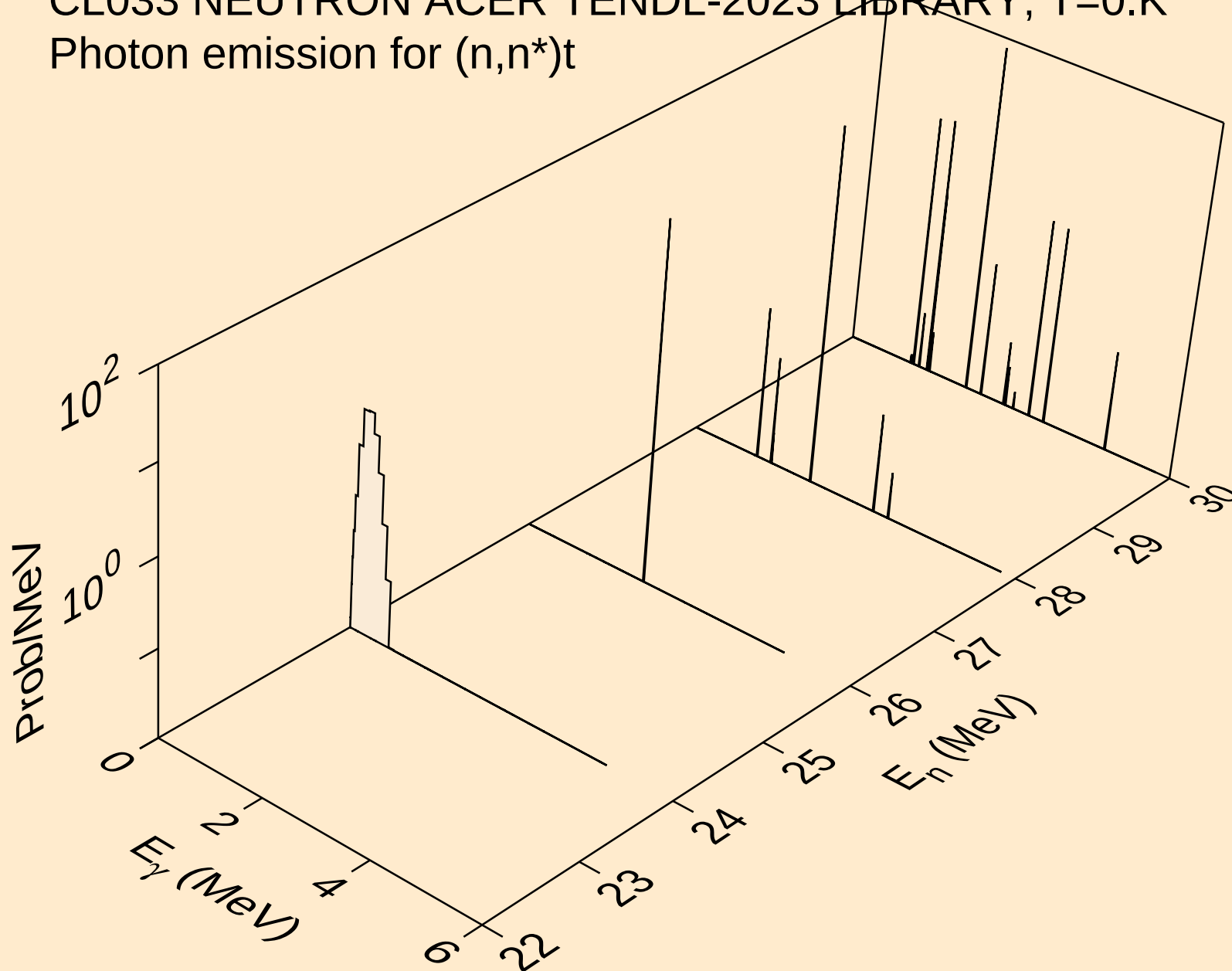
# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)d



# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

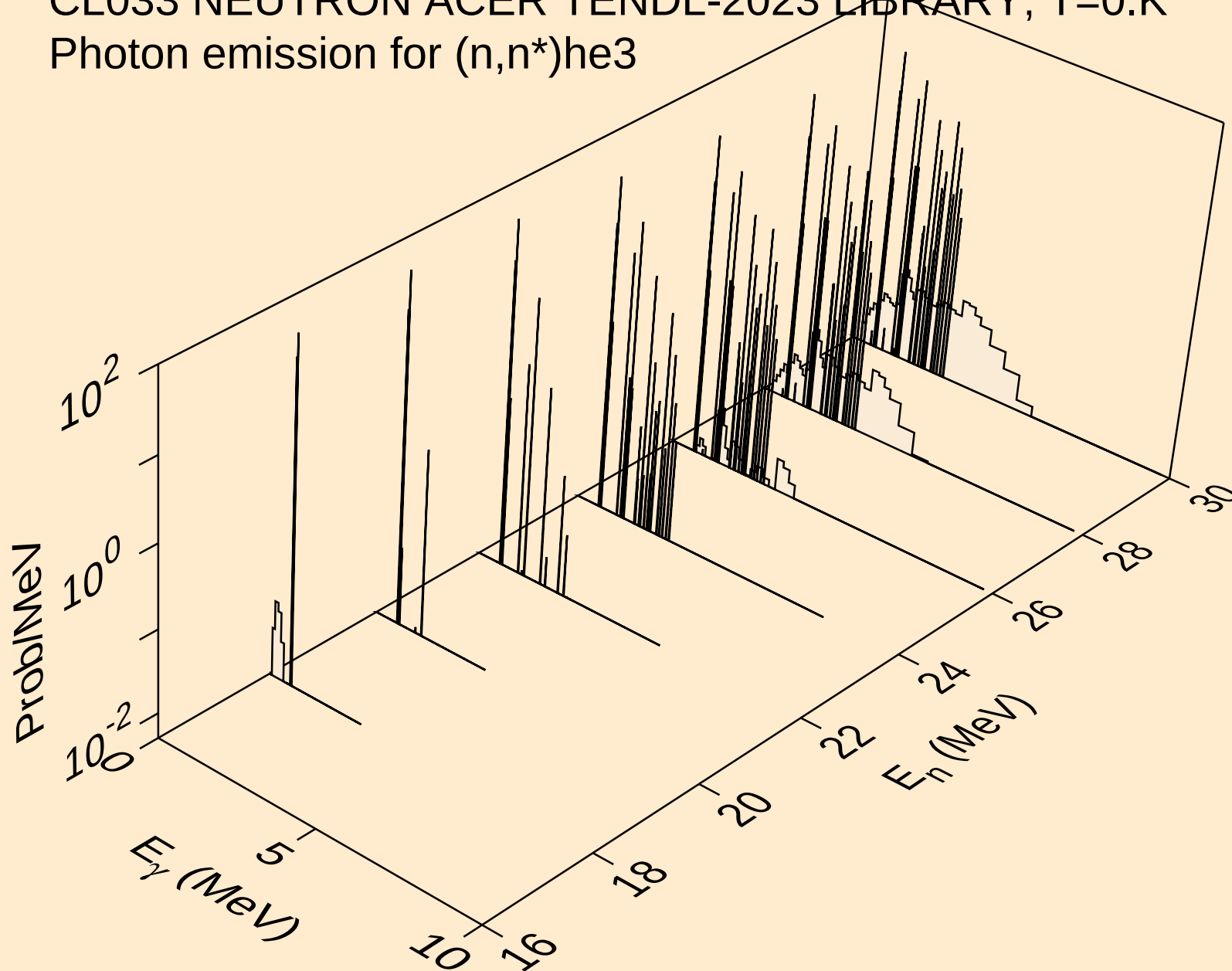
Photon emission for (n,n\*)t



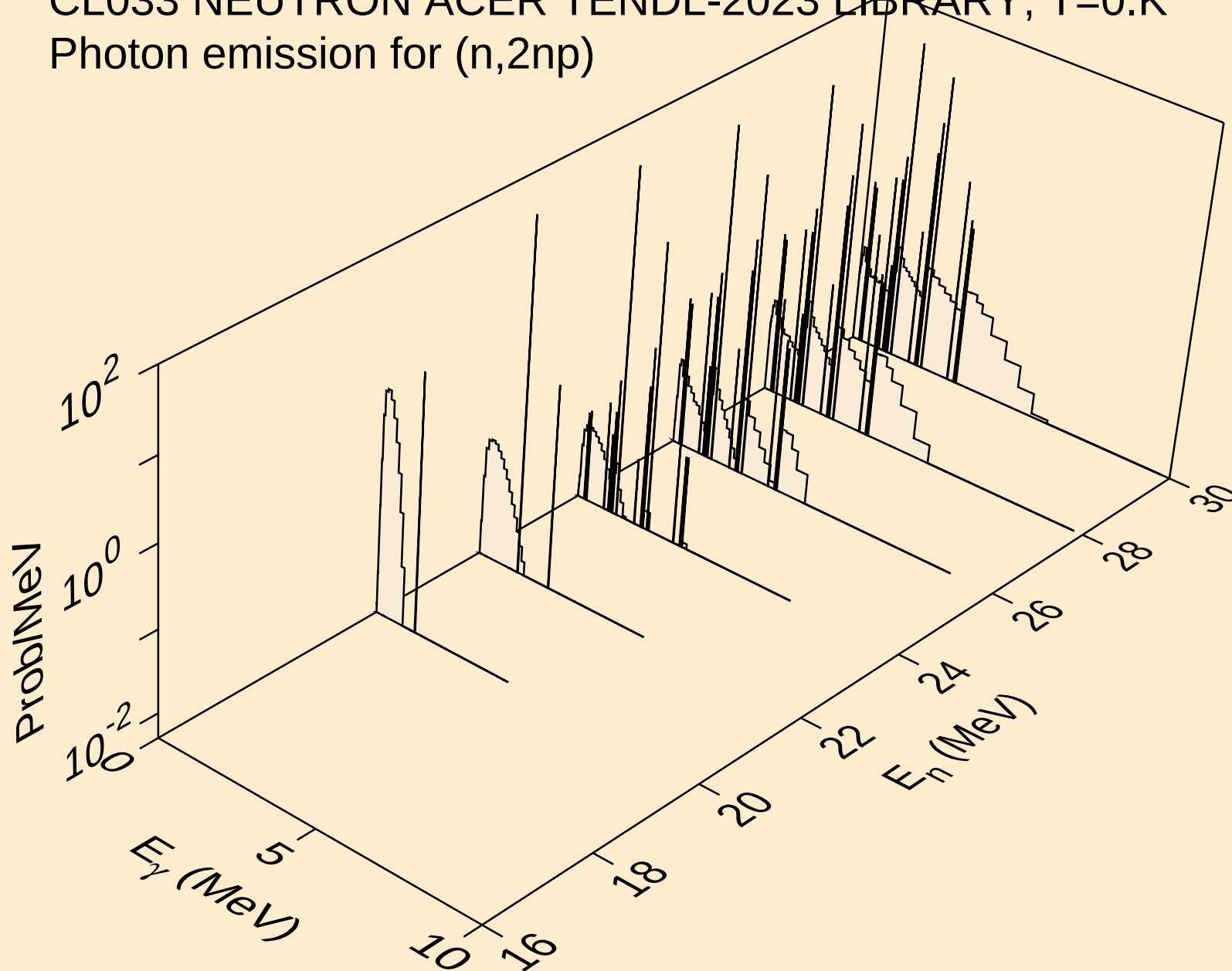


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

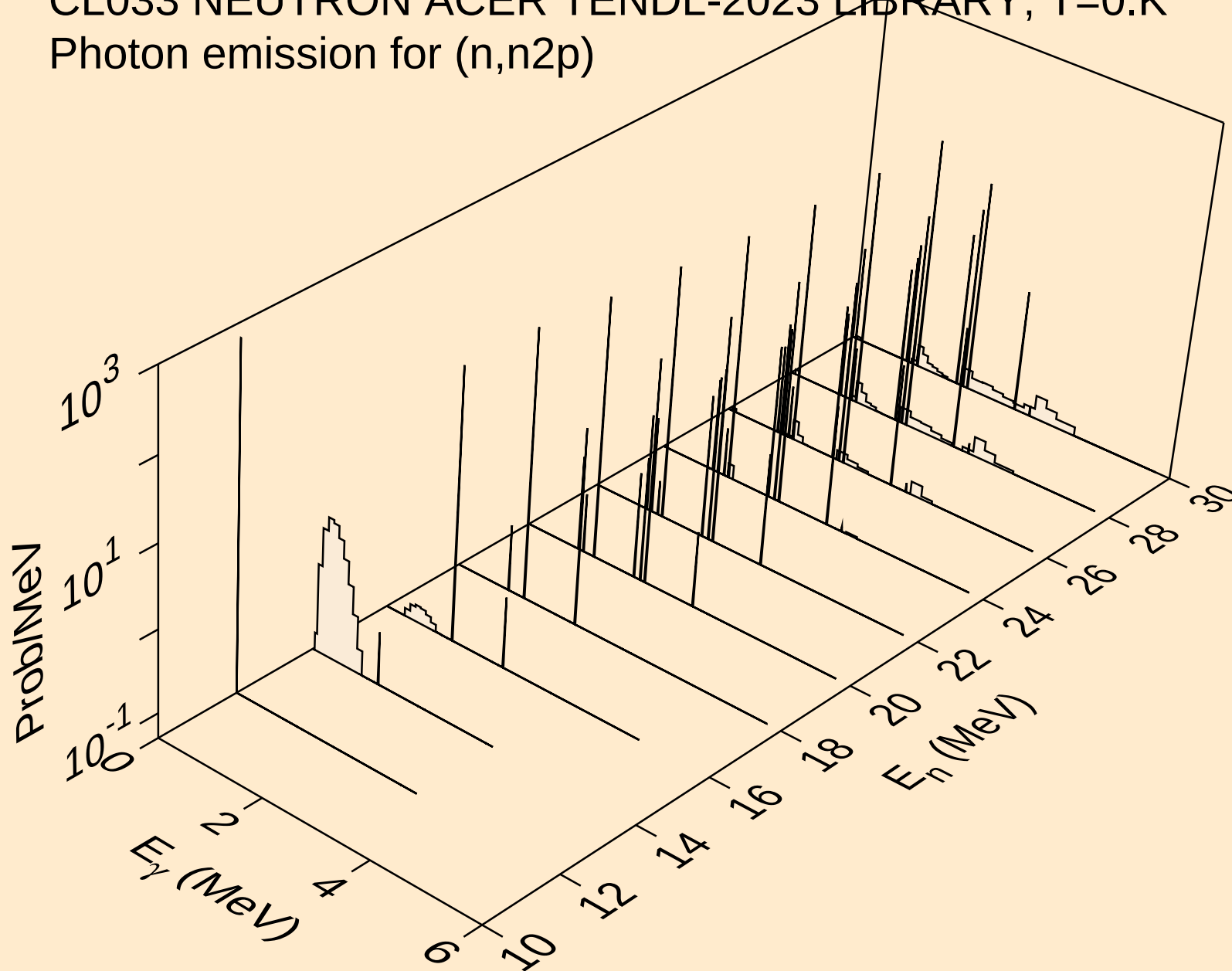
Photon emission for (n,n\*)he3



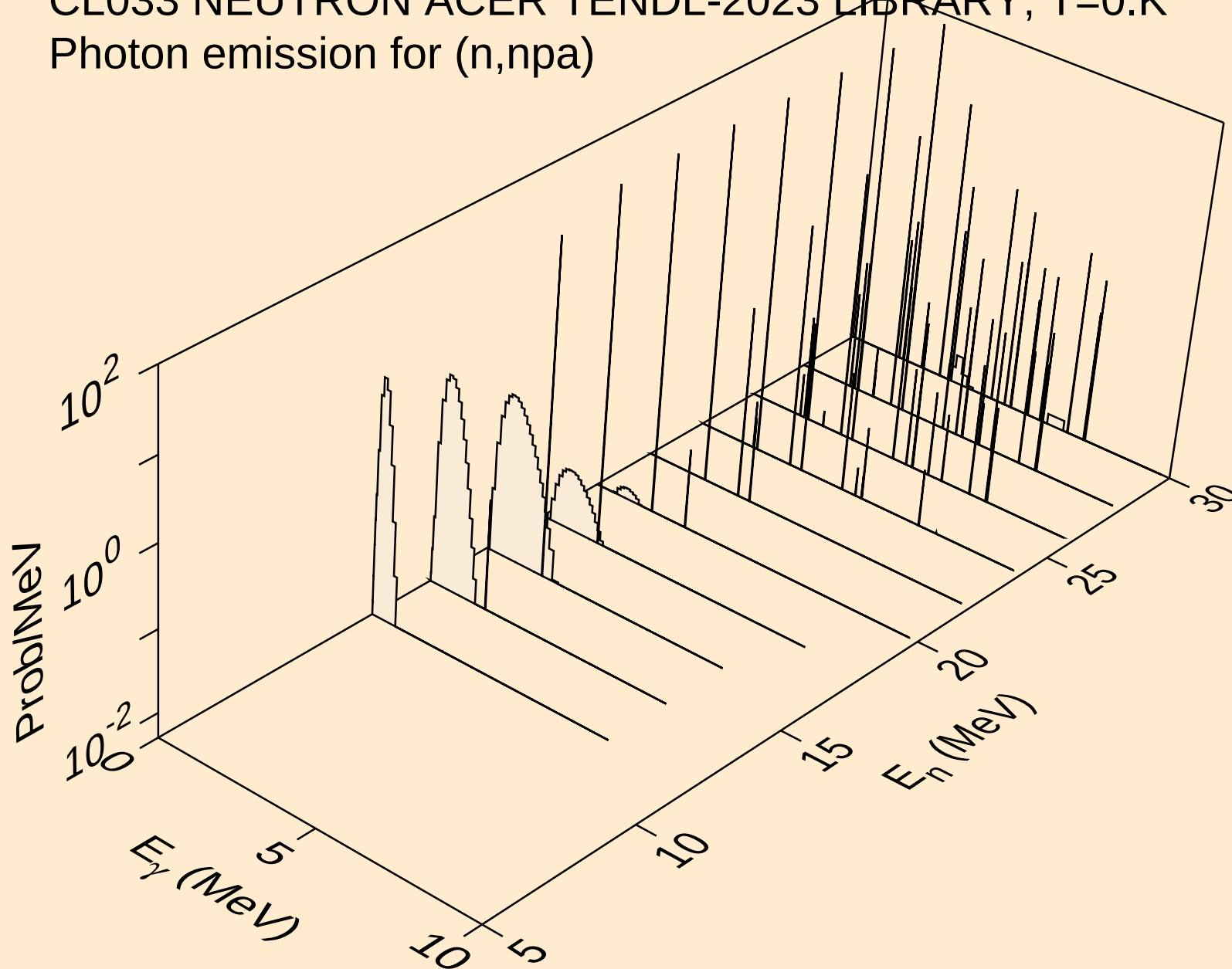
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



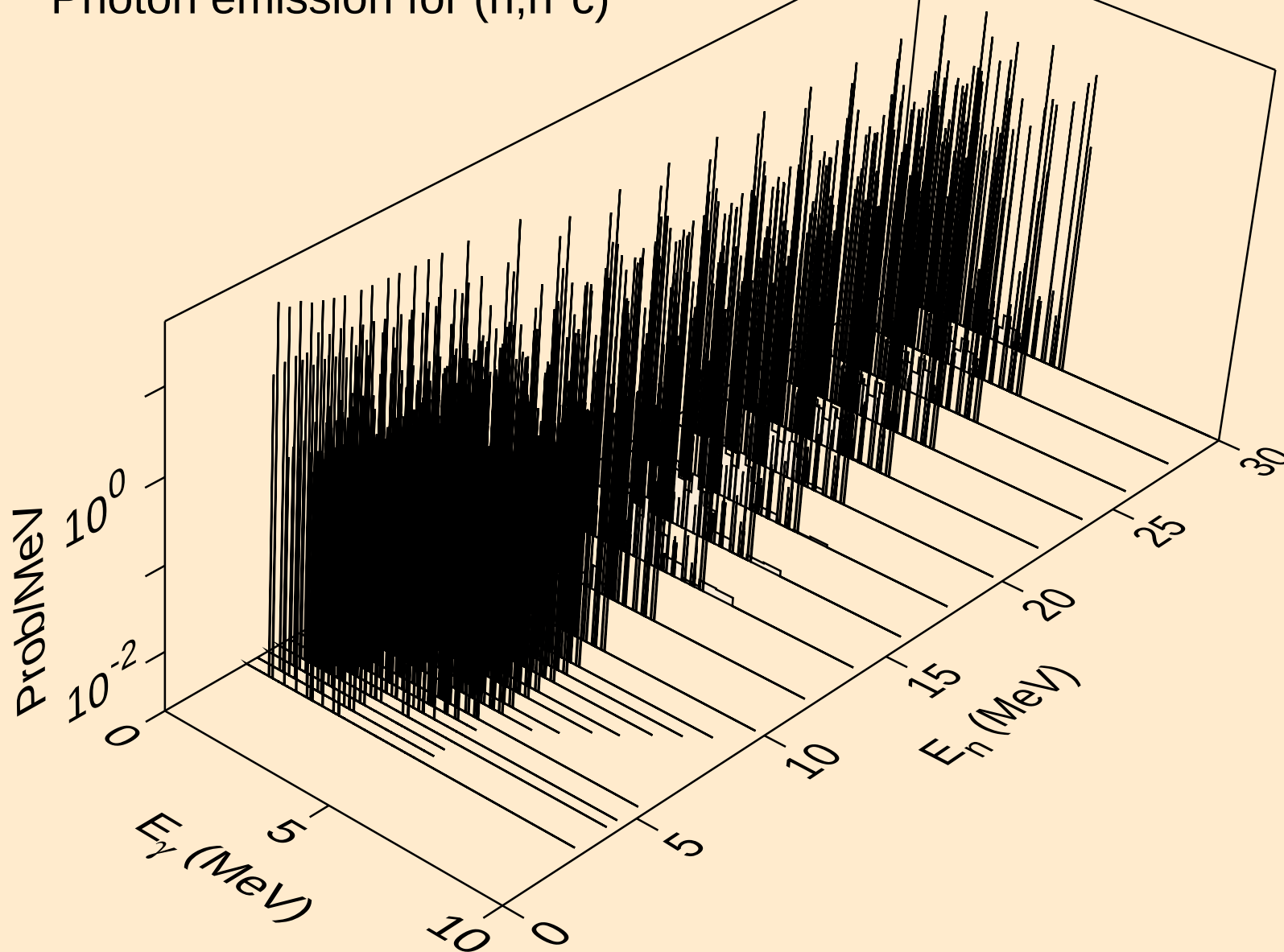
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Photon emission for (n,n2p)



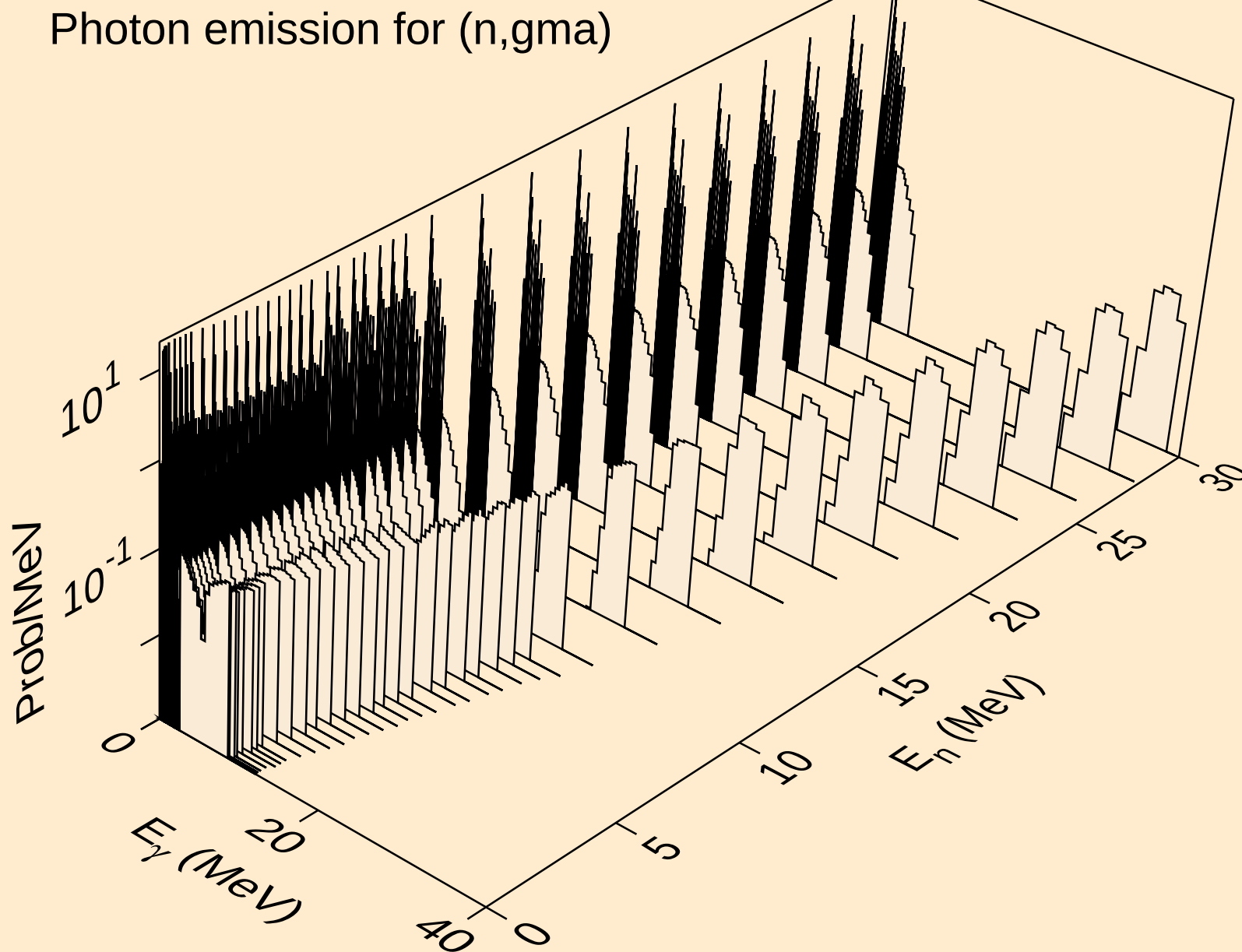
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Photon emission for (n,npa)



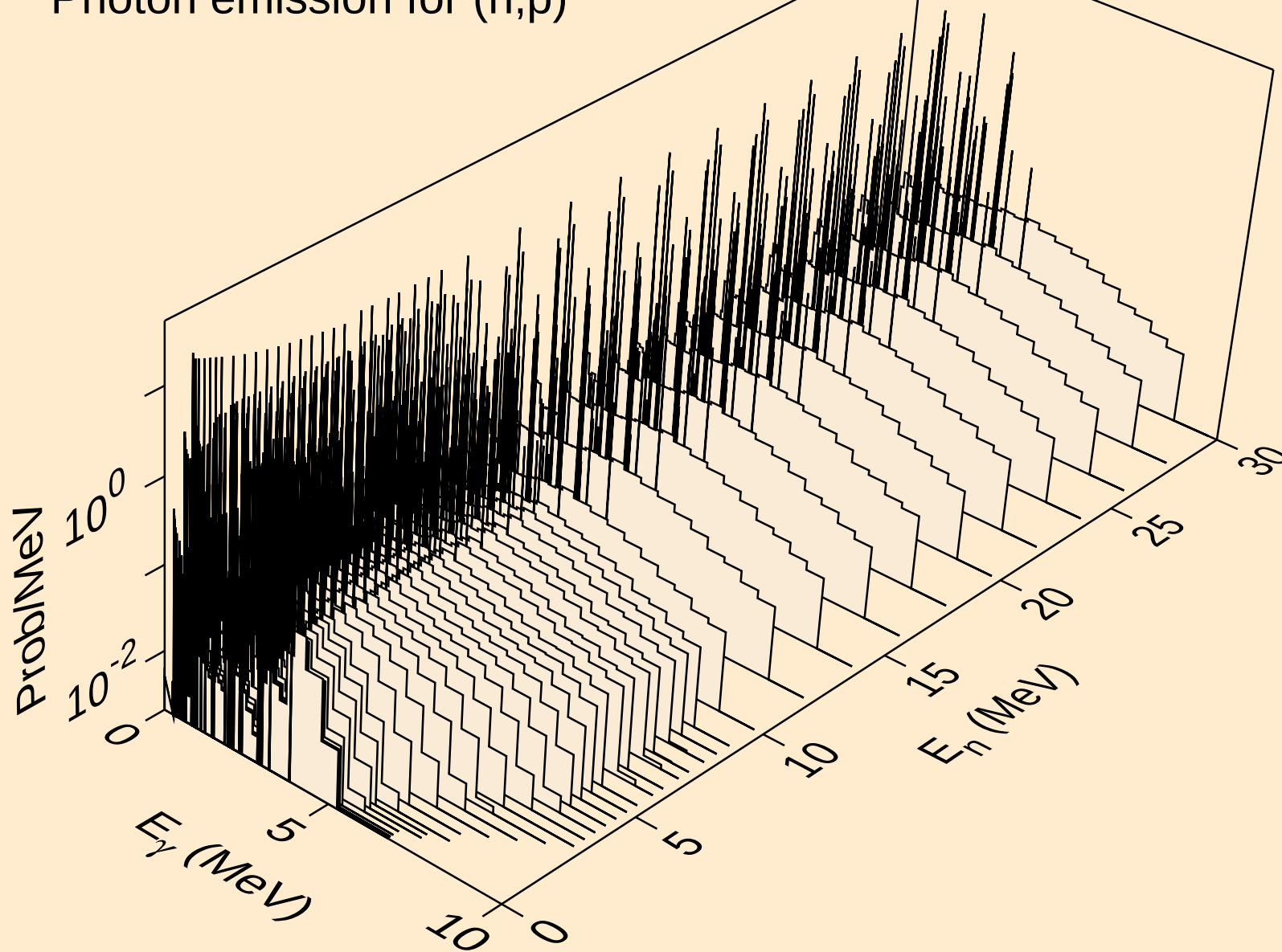
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Photon emission for (n,n\*c)



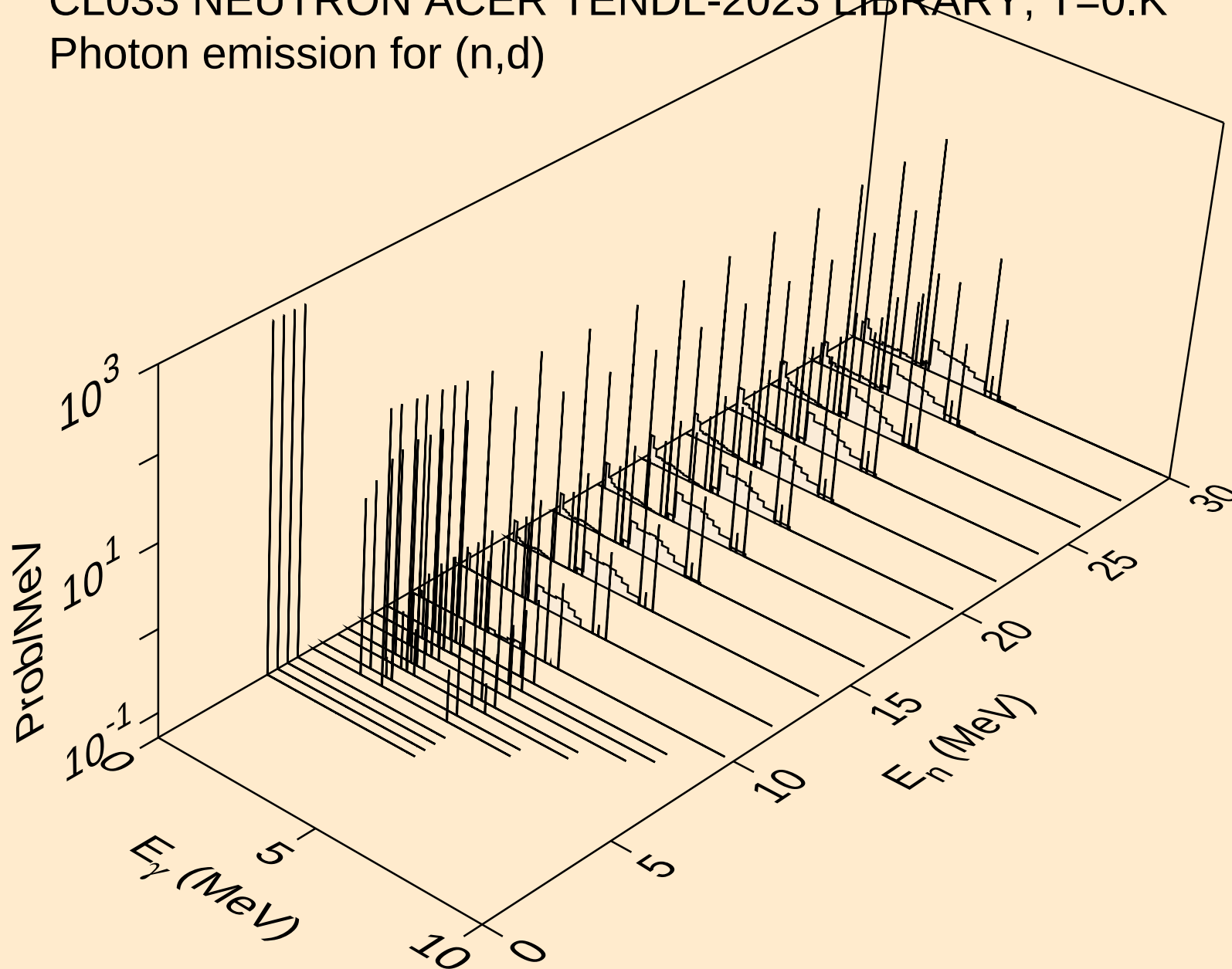
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

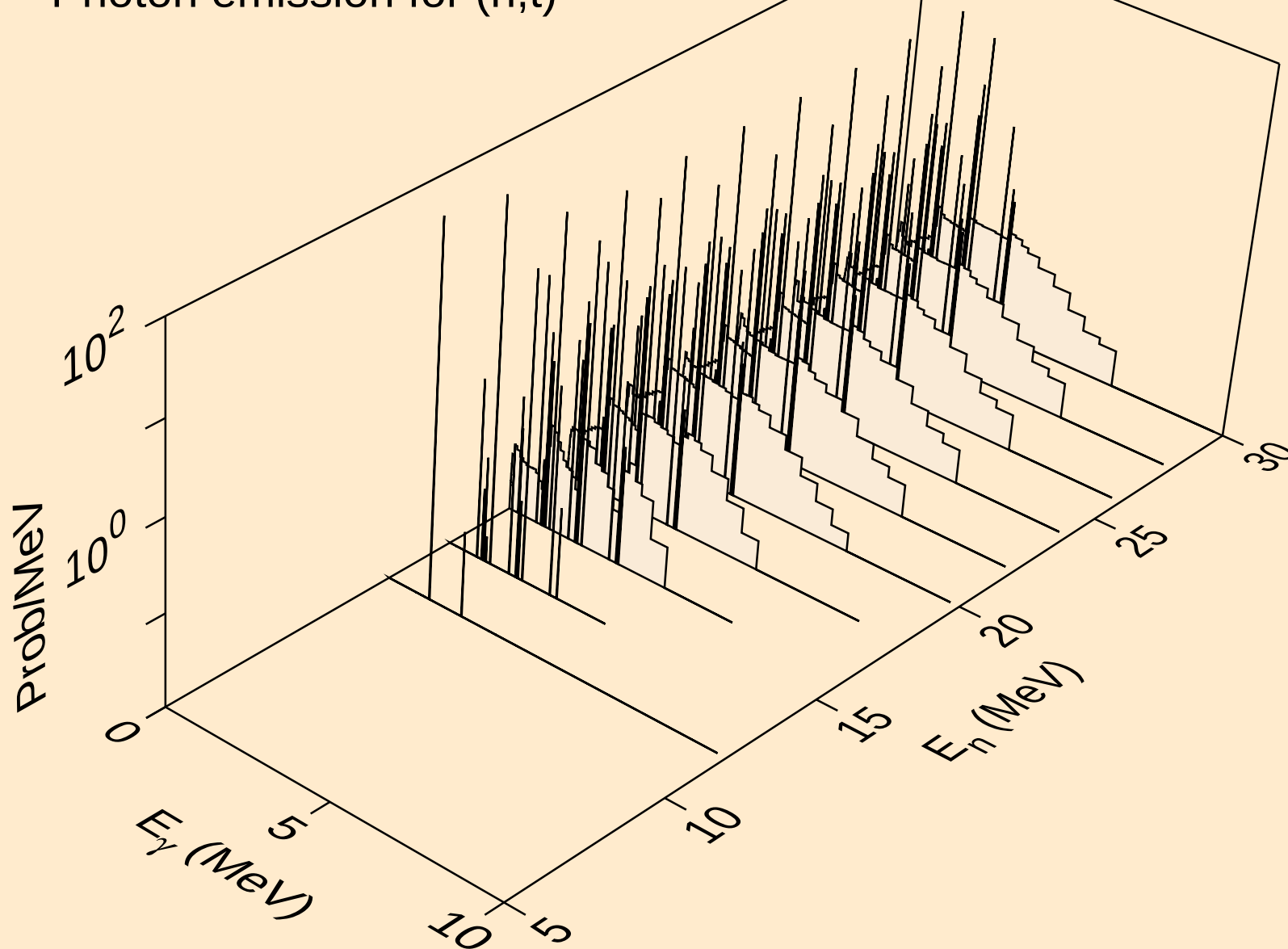


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Photon emission for (n,d)

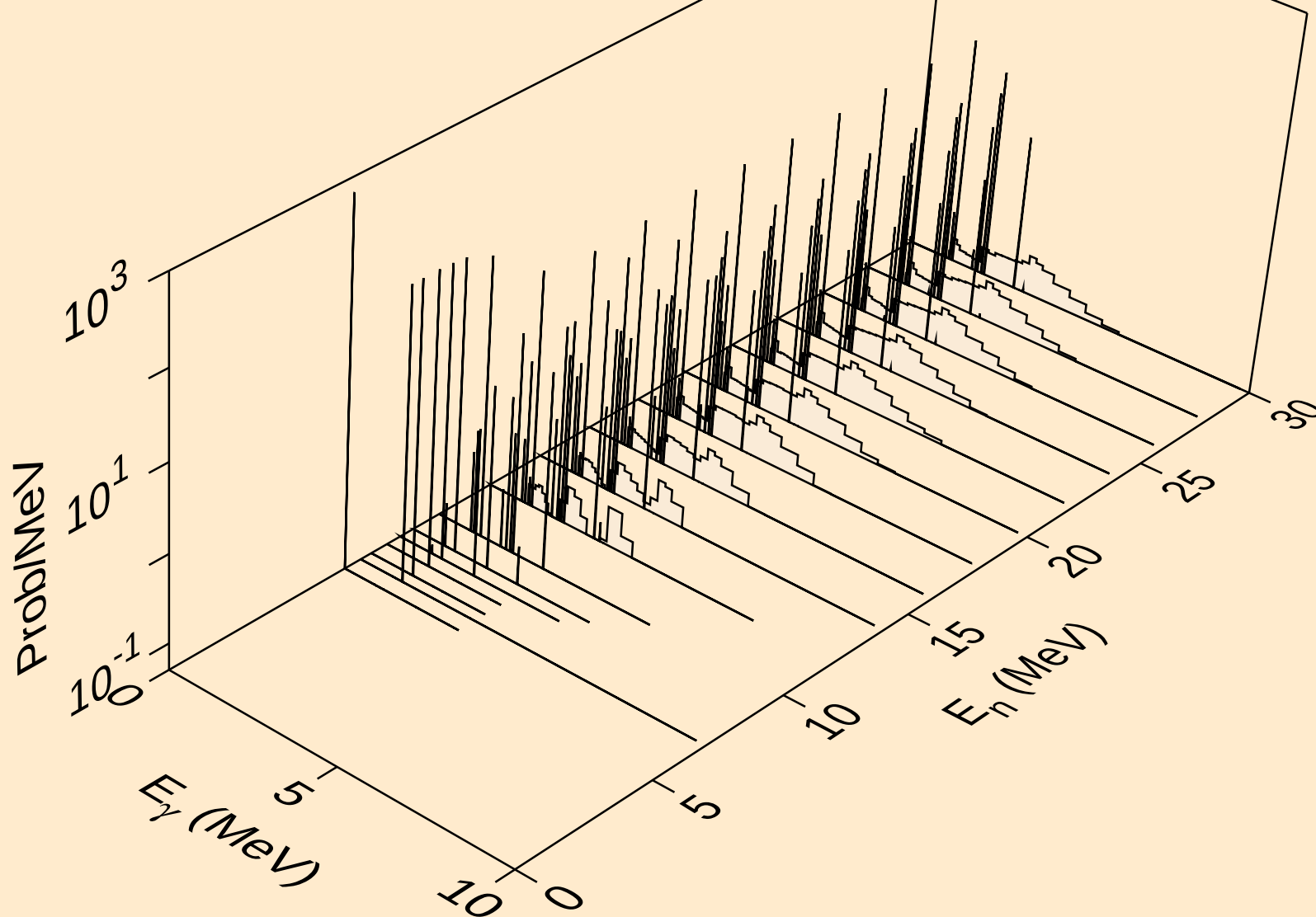




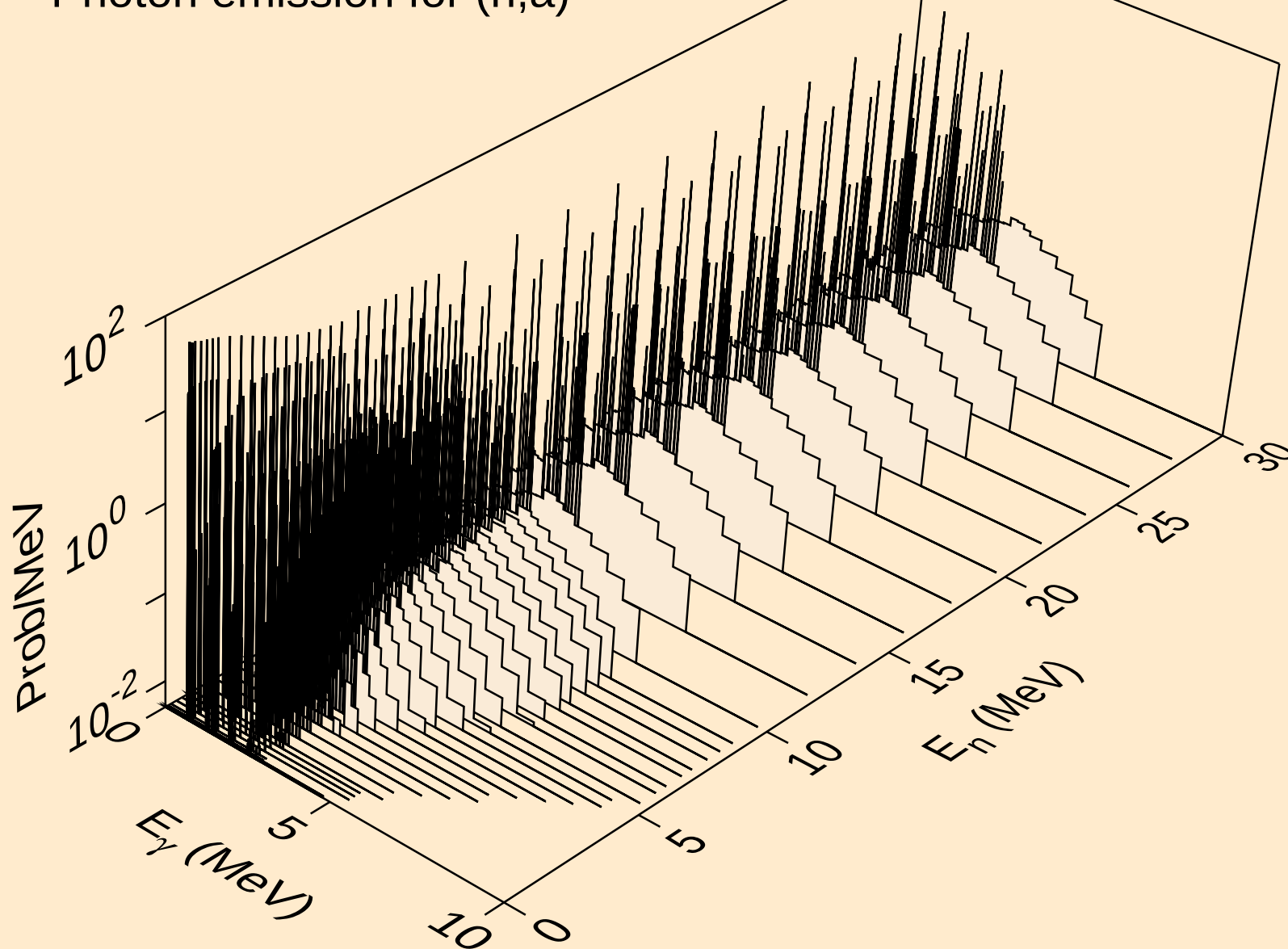
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



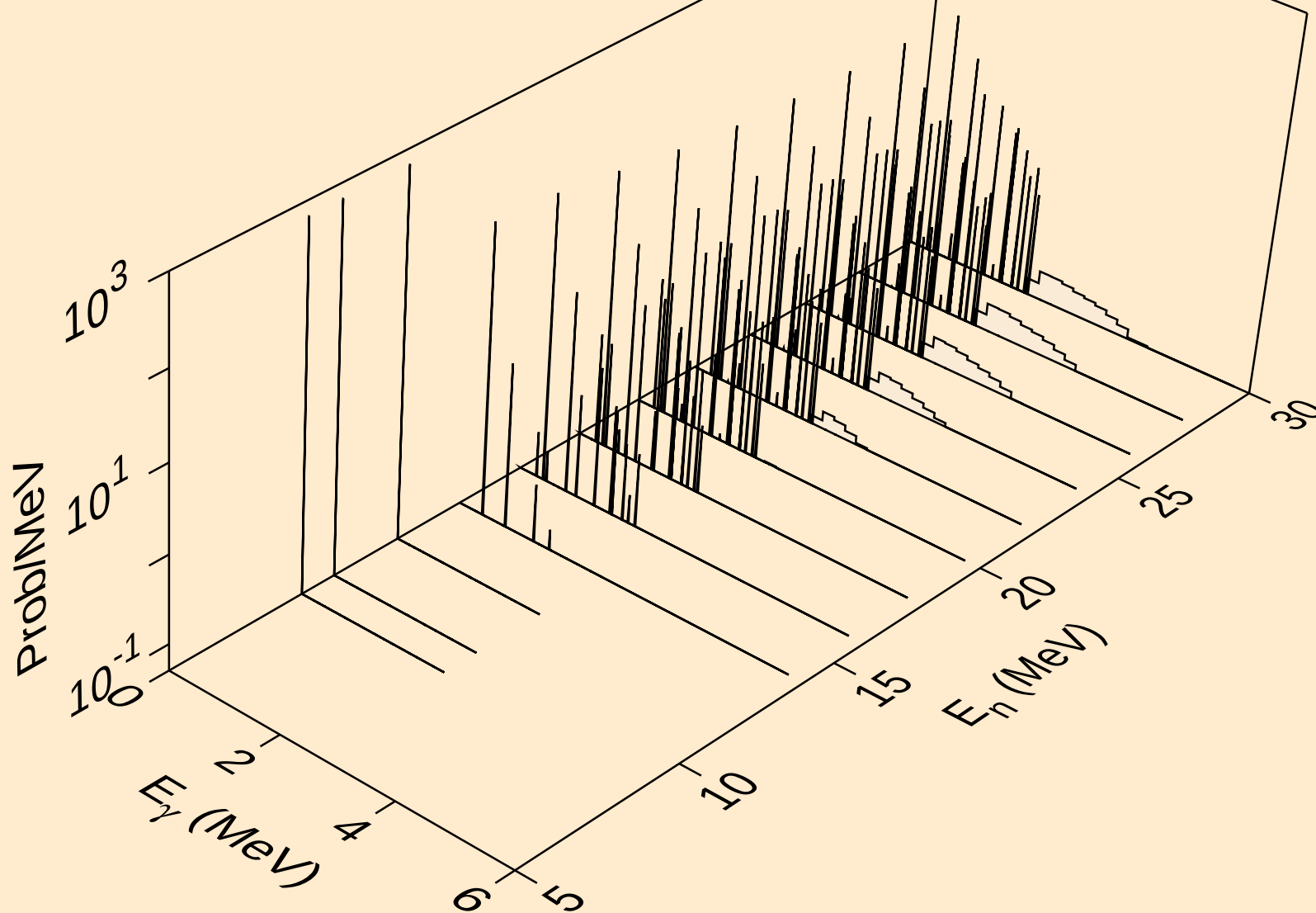
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



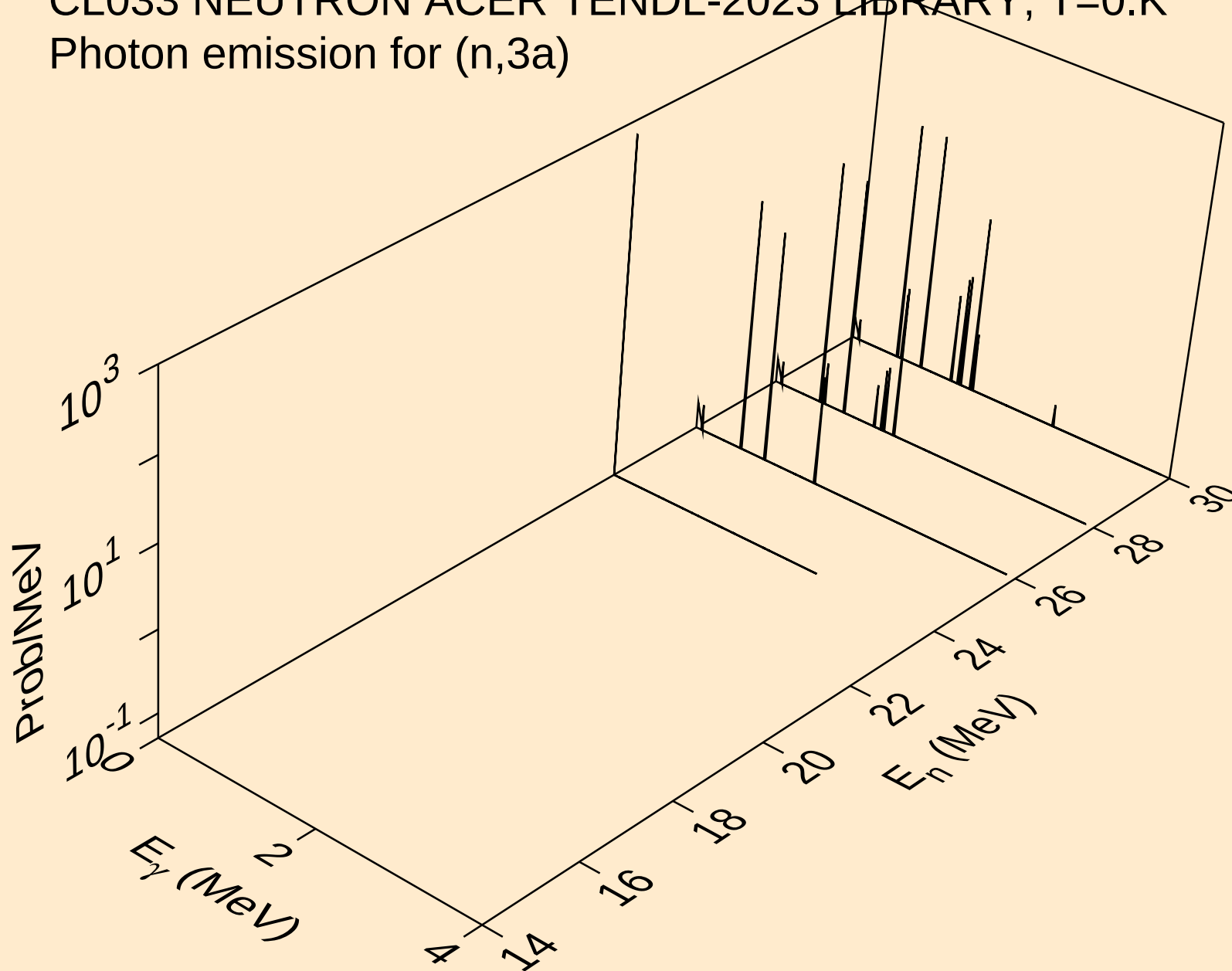
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



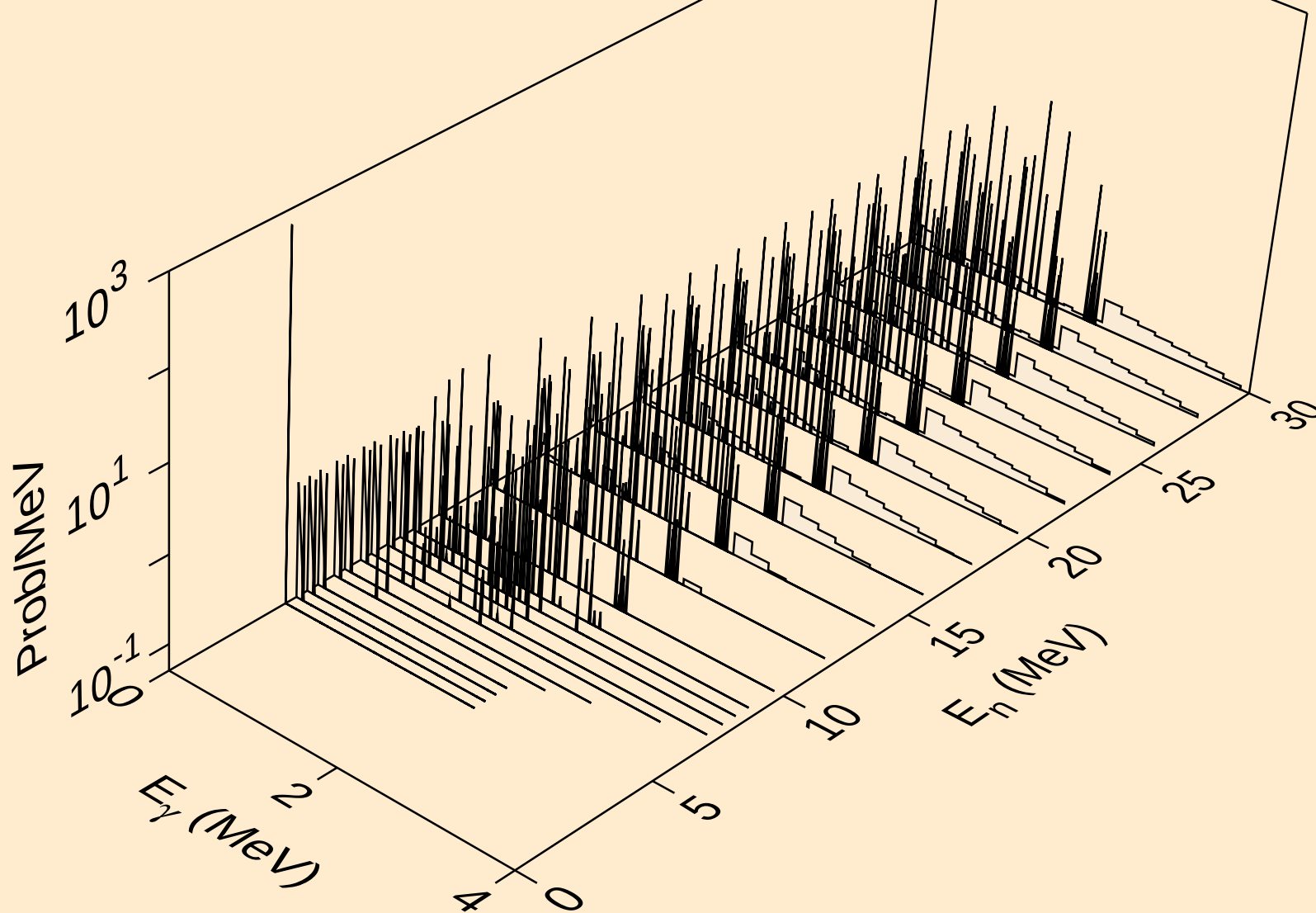
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



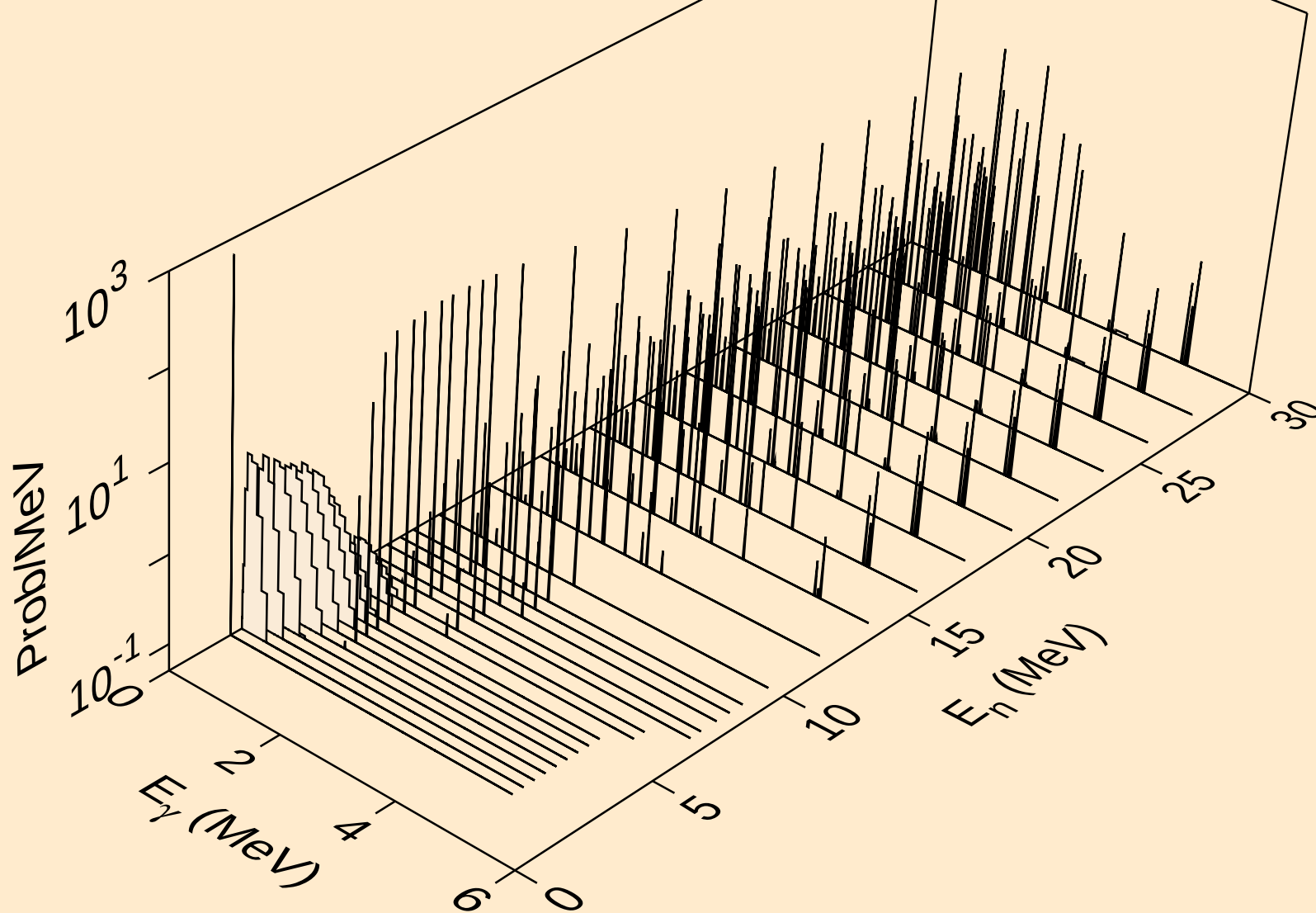
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)



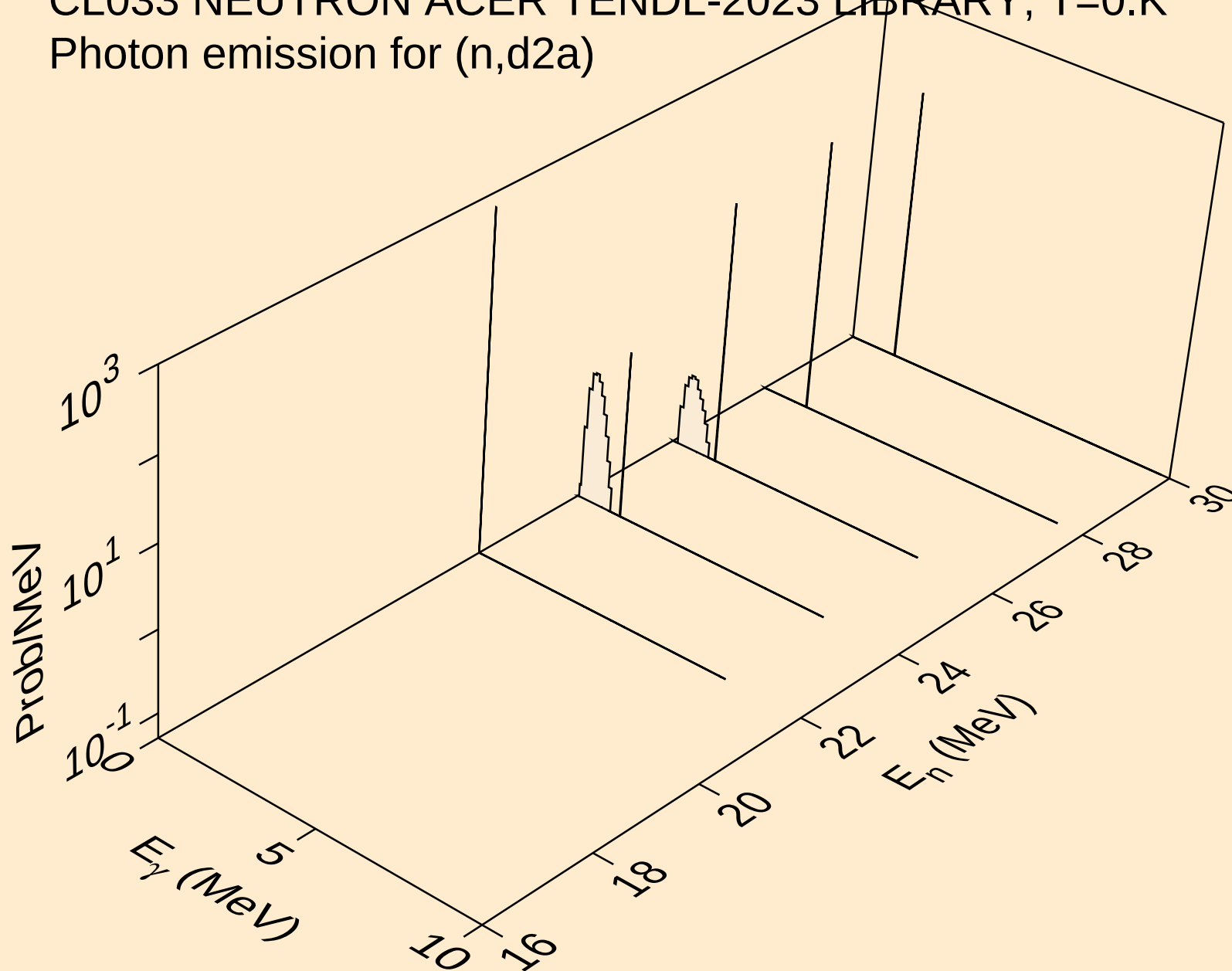
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )

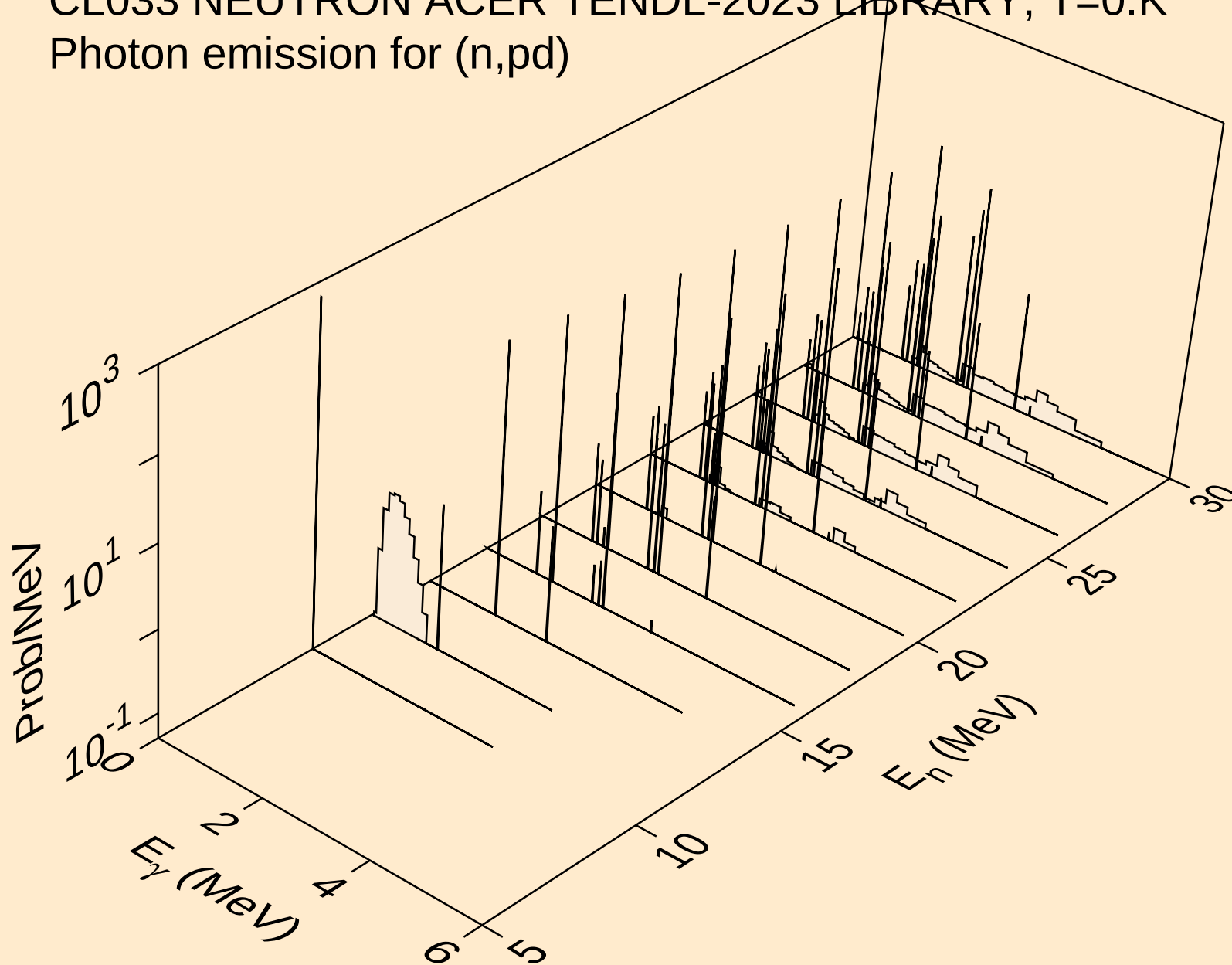


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d2a)



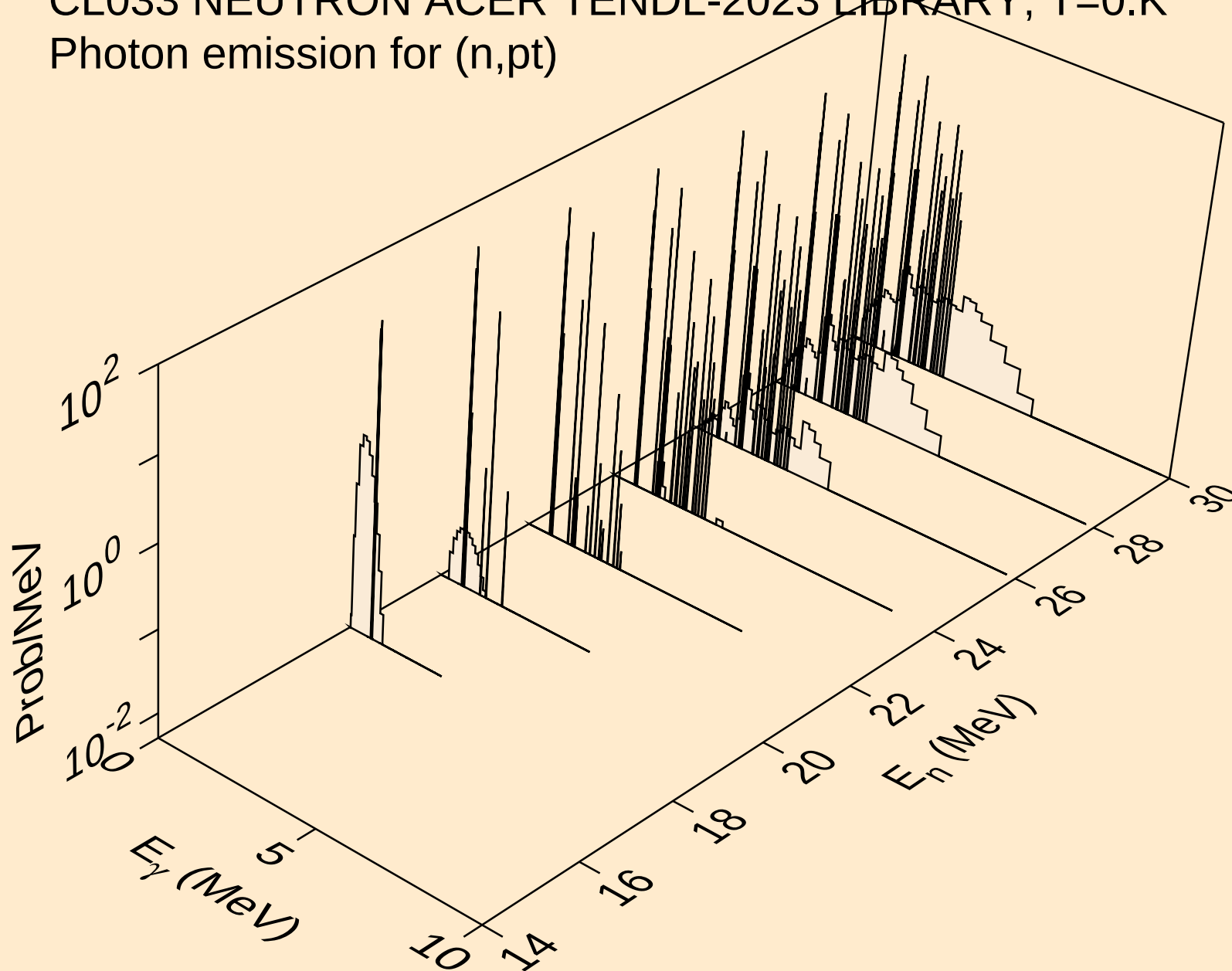


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

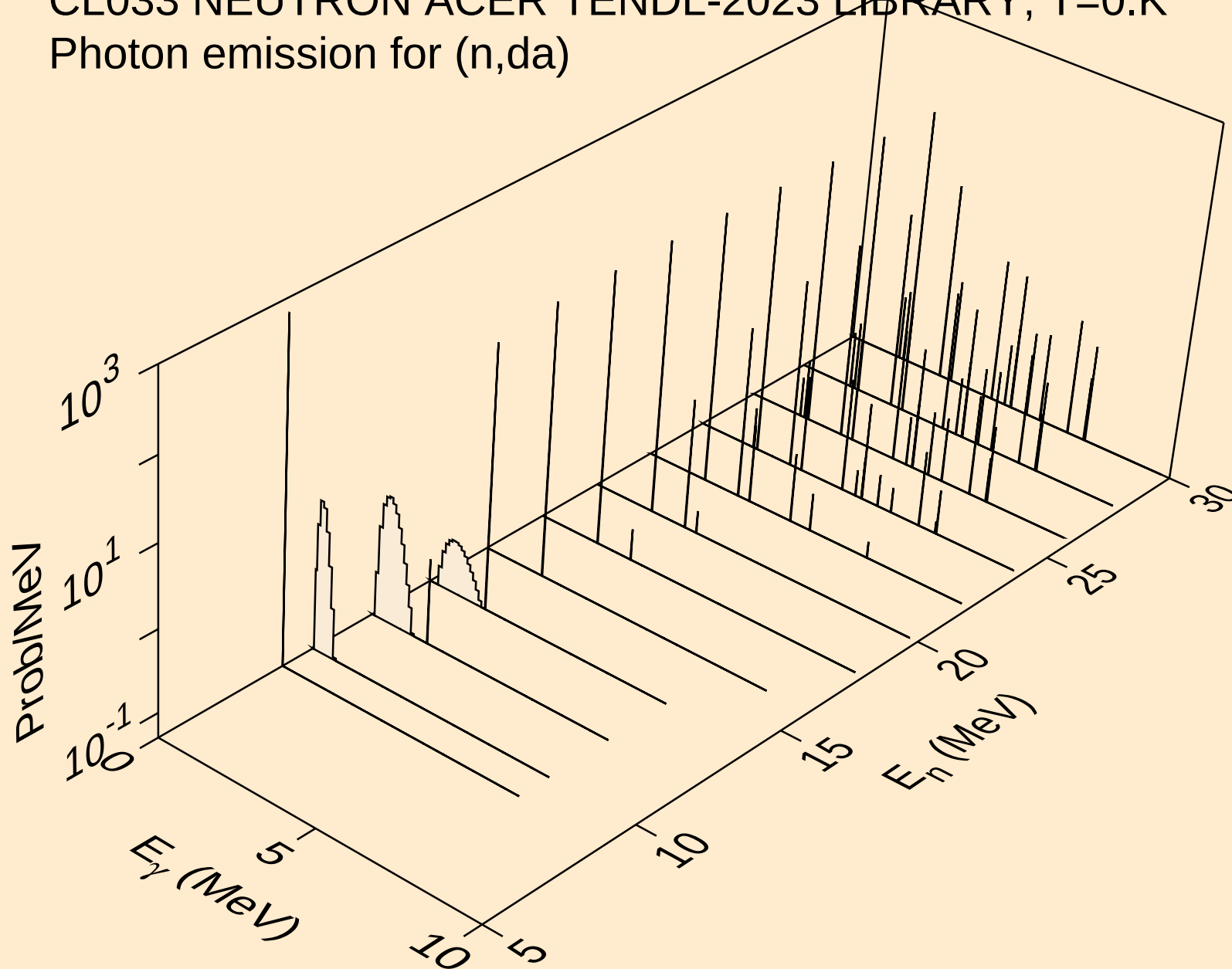


# CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

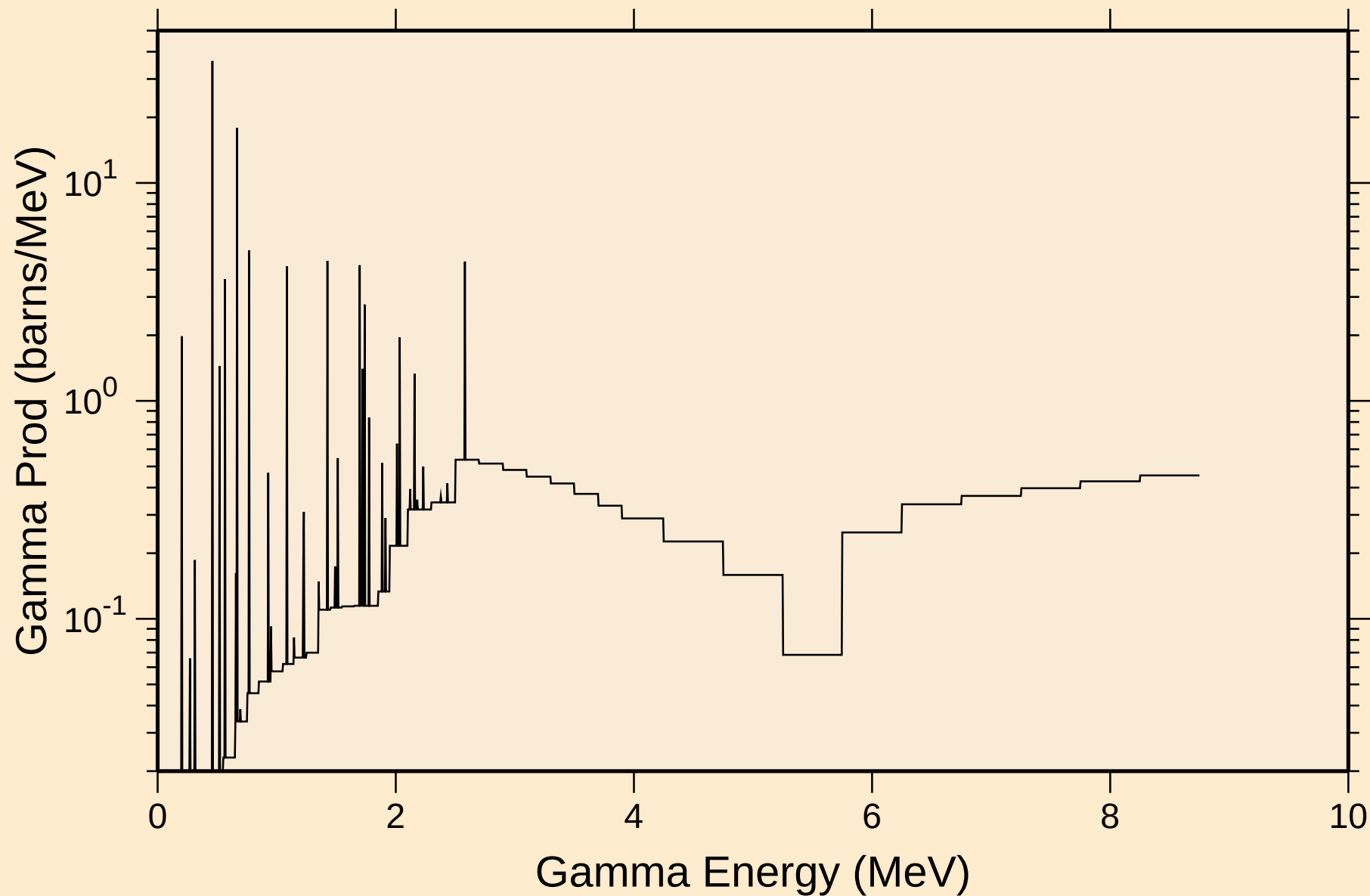
Photon emission for (n,pt)



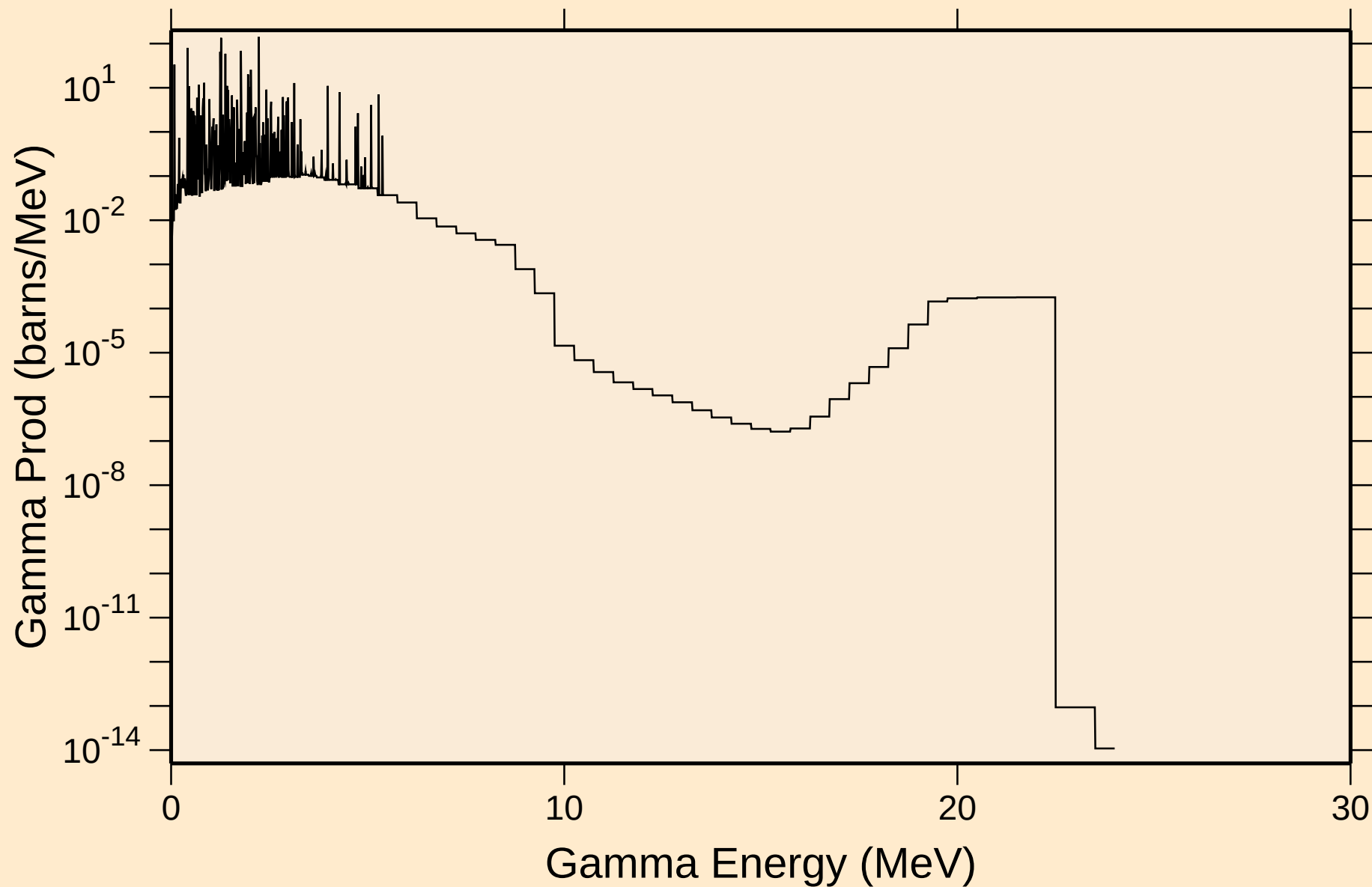
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

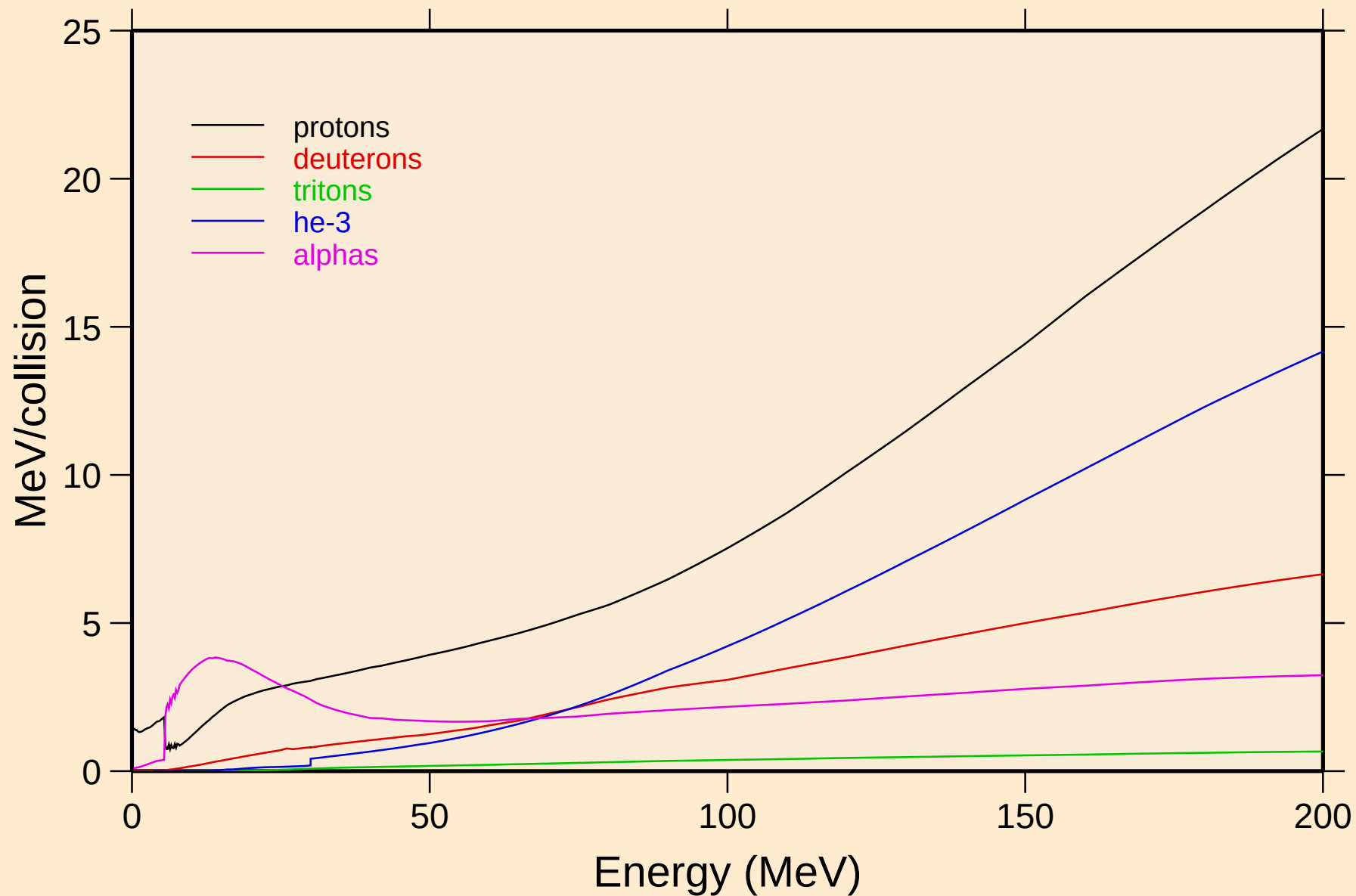


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



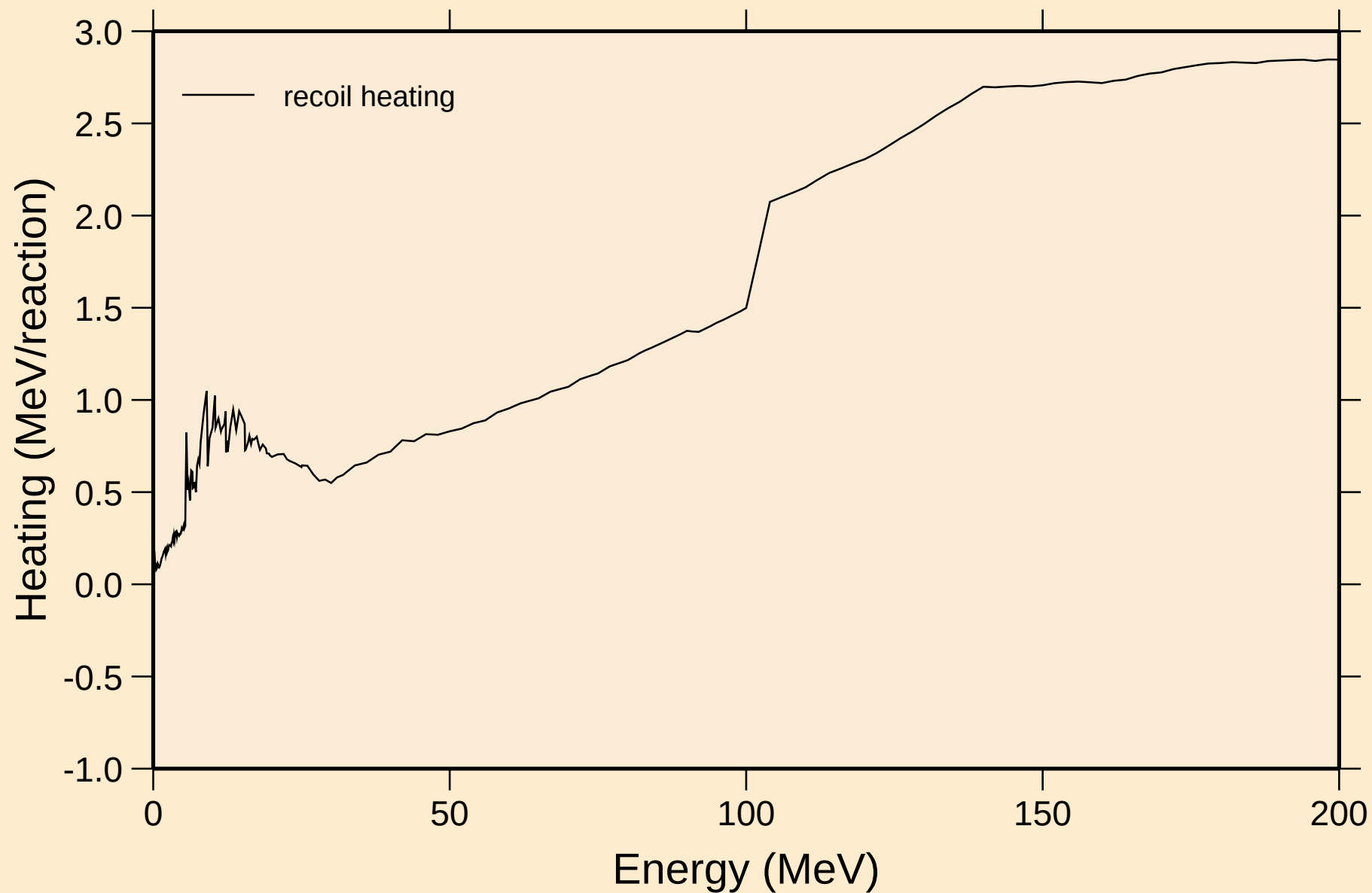
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## Particle heating contributions



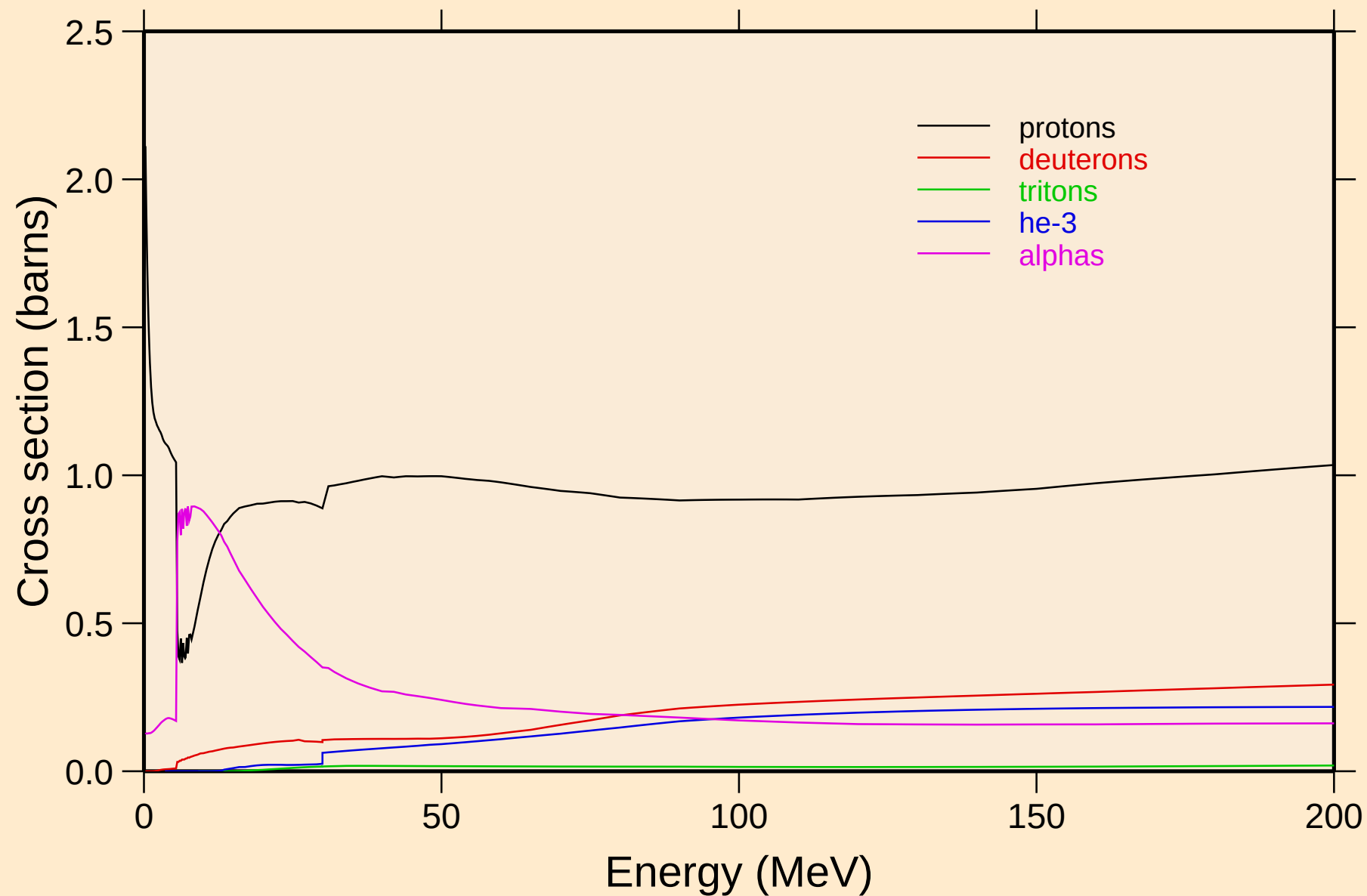
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## Recoil Heating



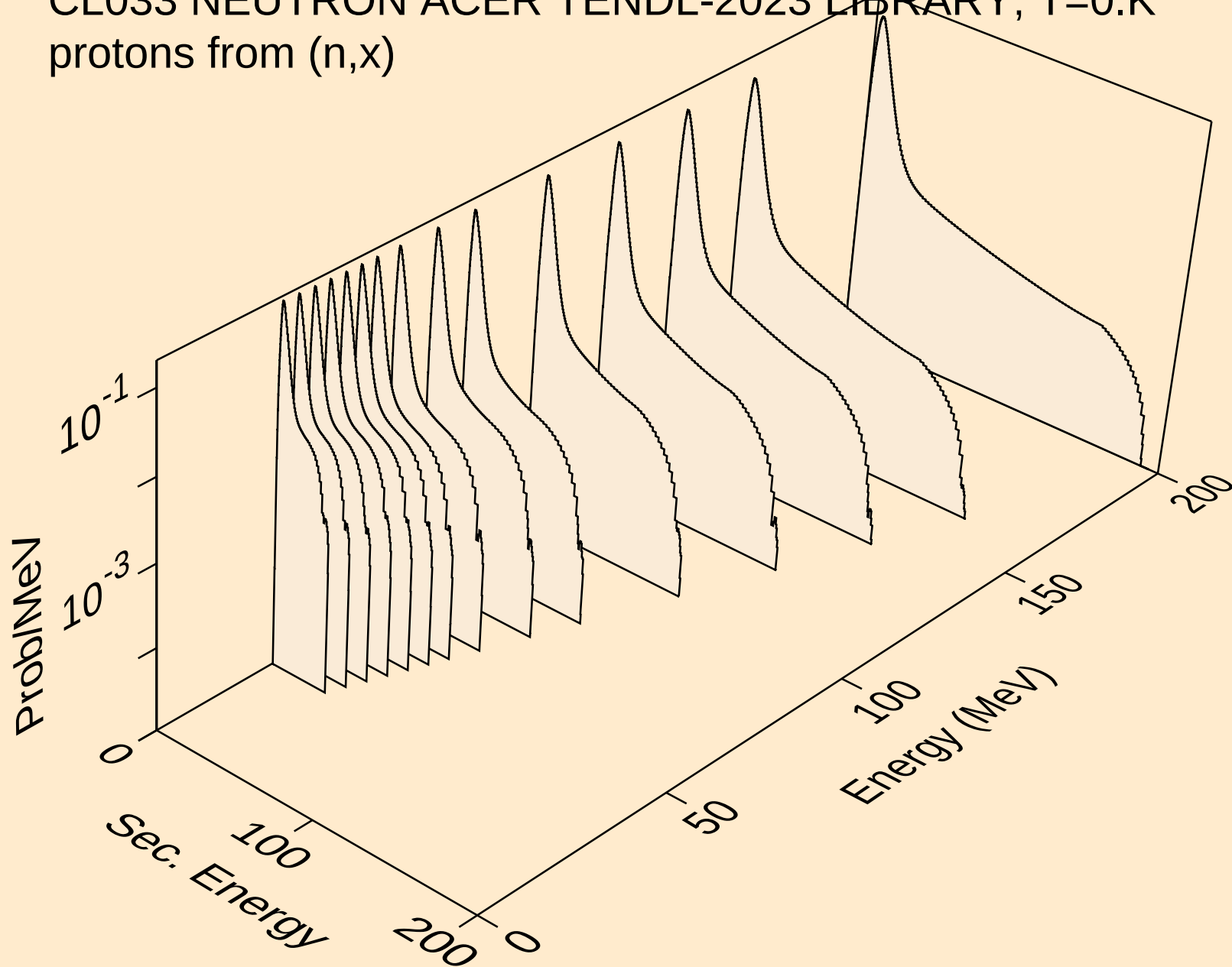
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## Particle production cross sections

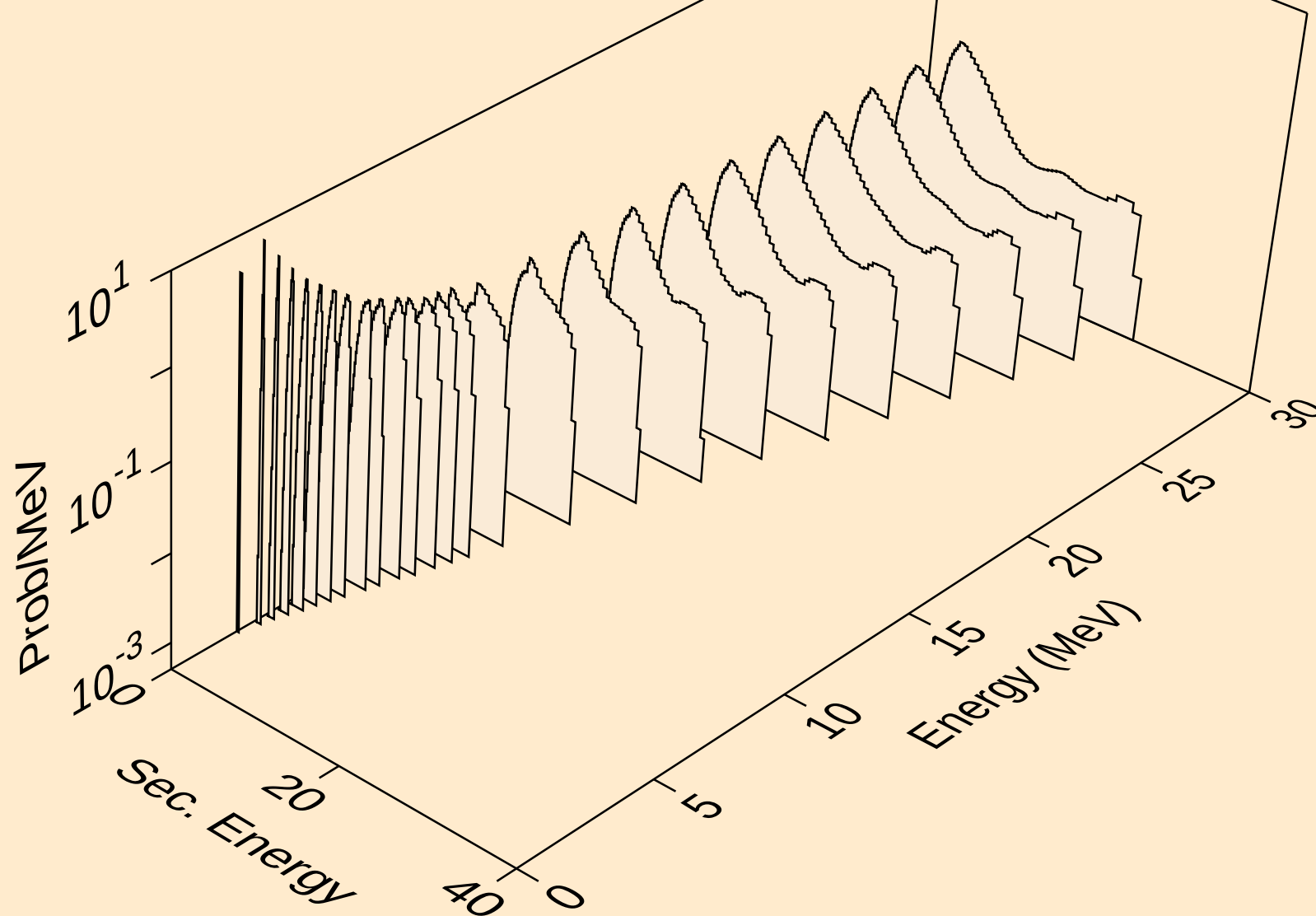




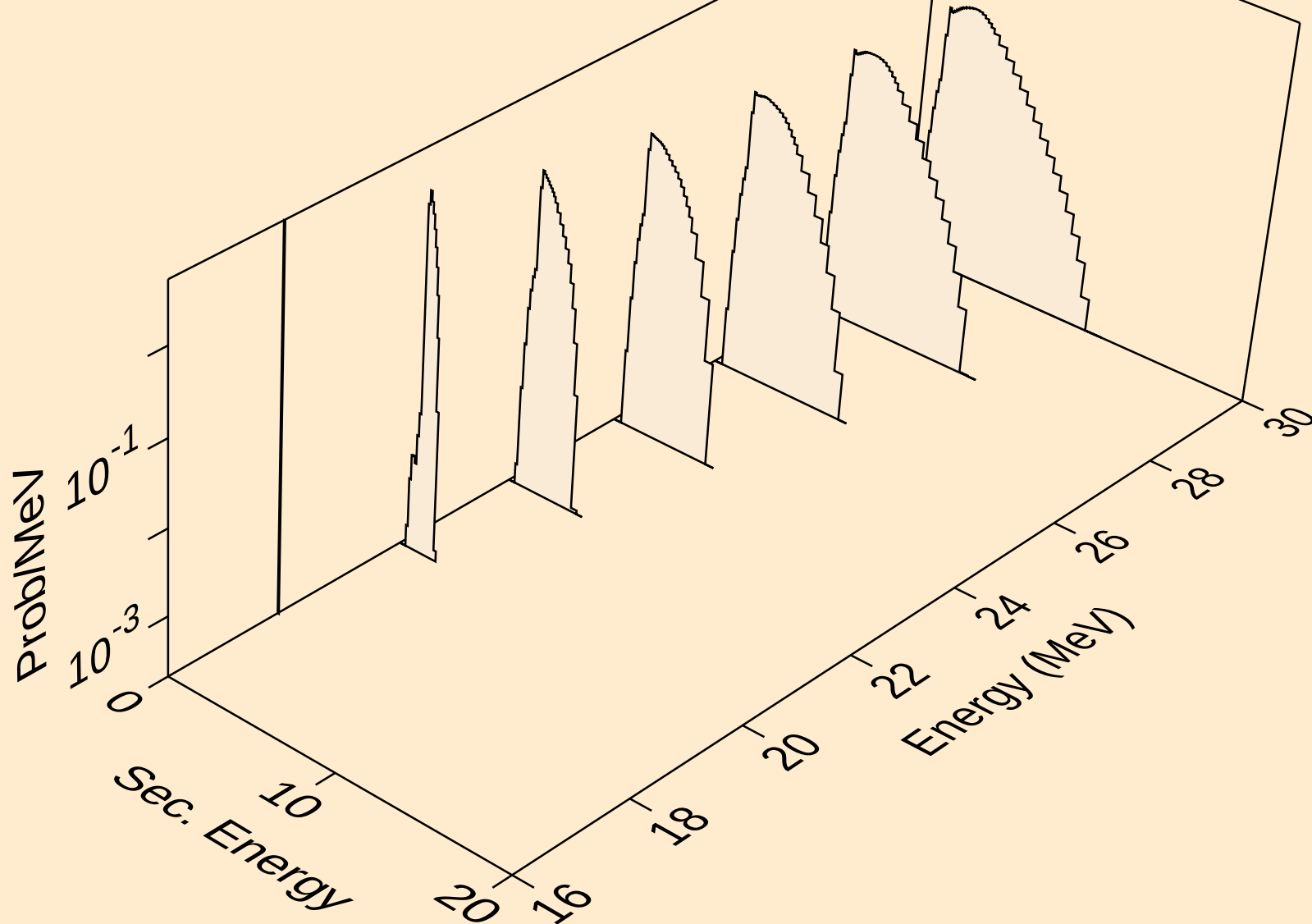
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



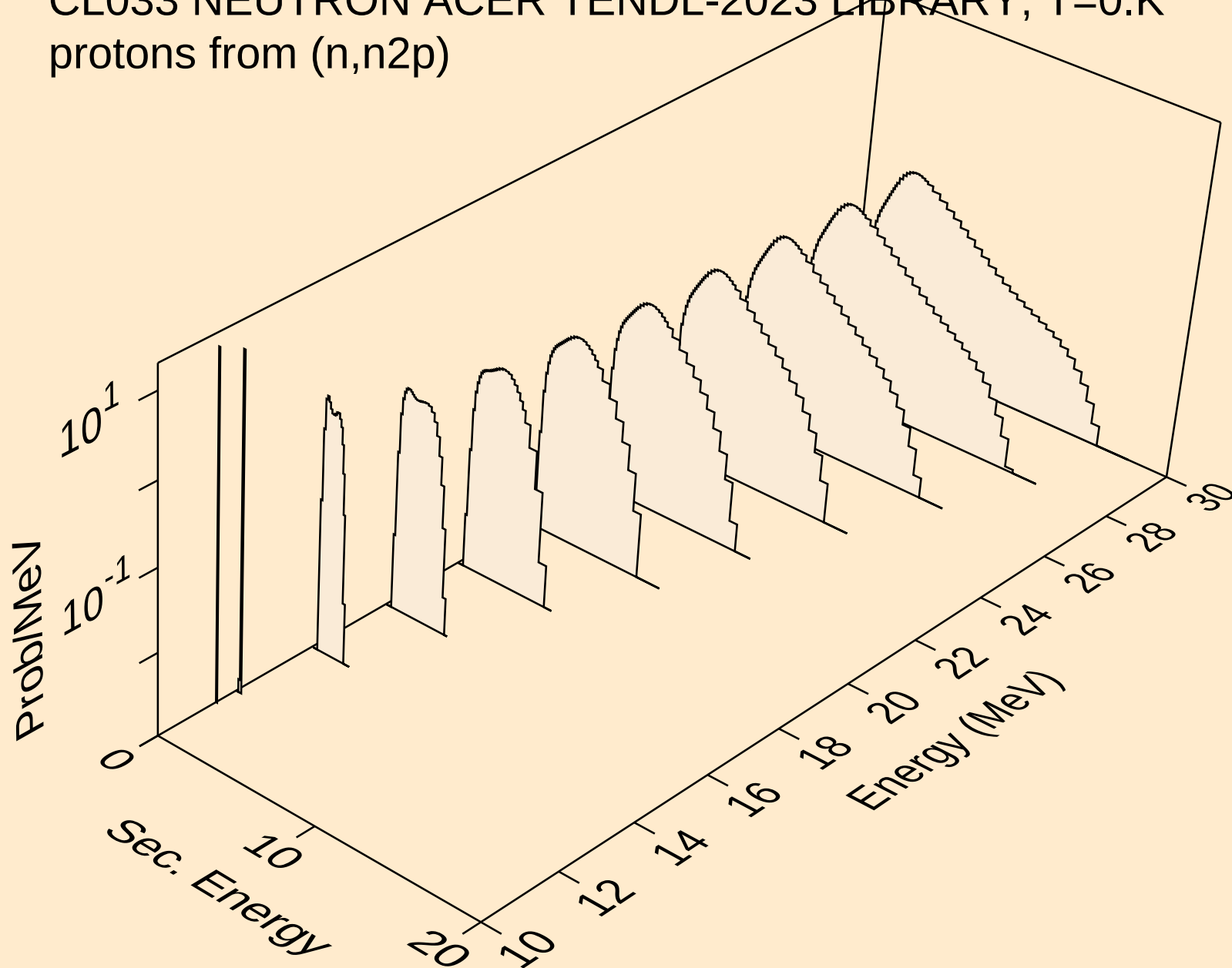
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



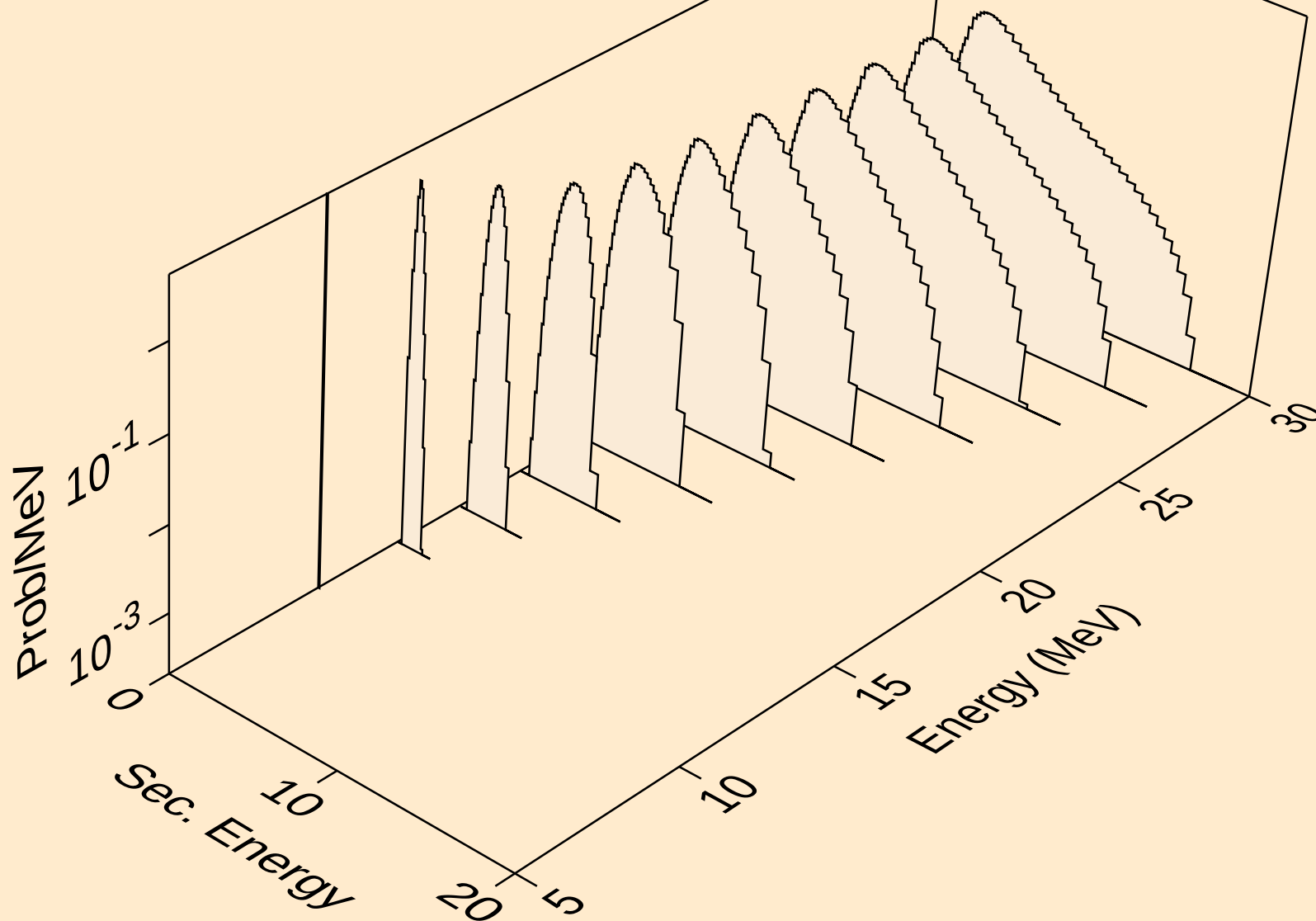
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



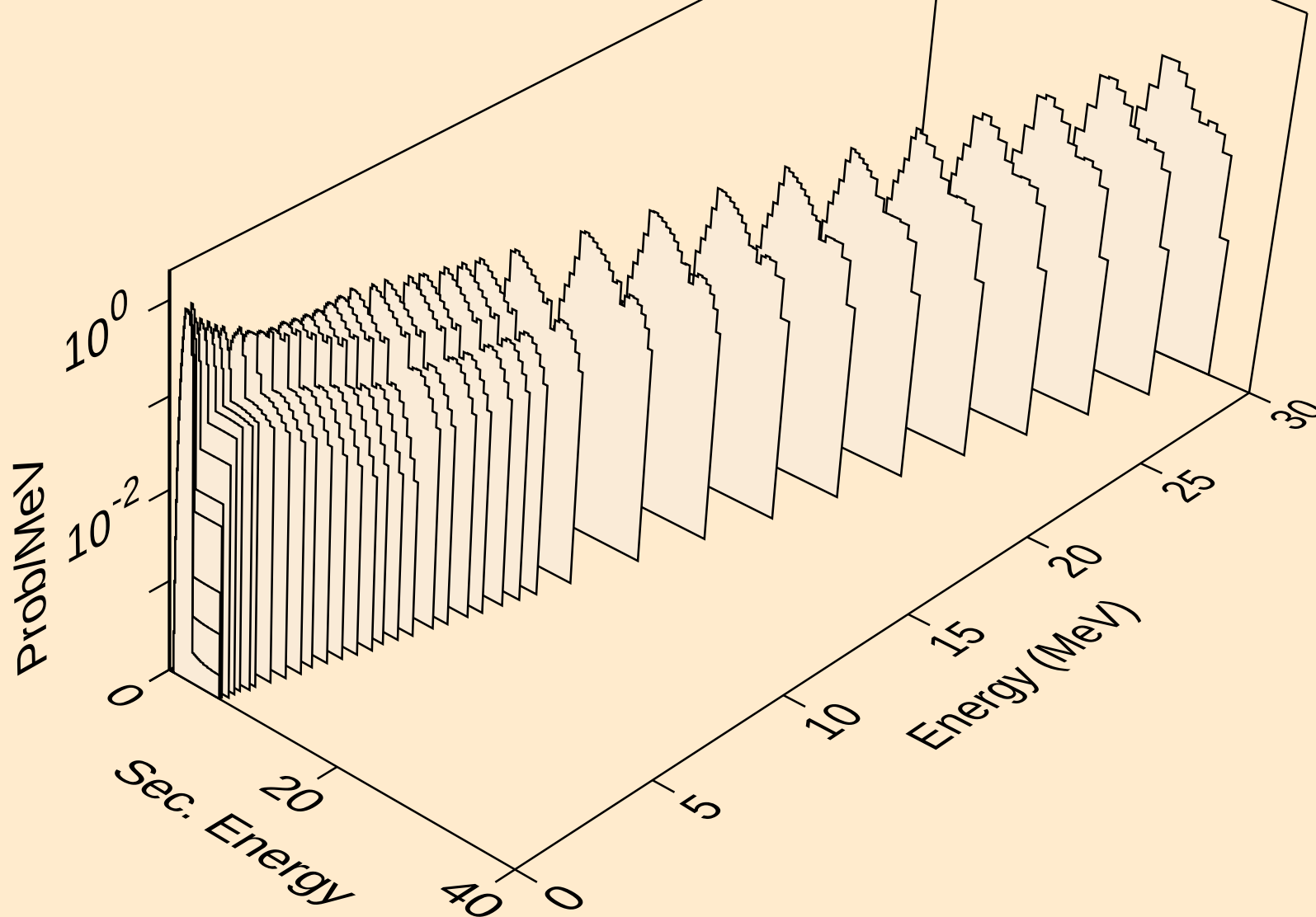
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n2p)



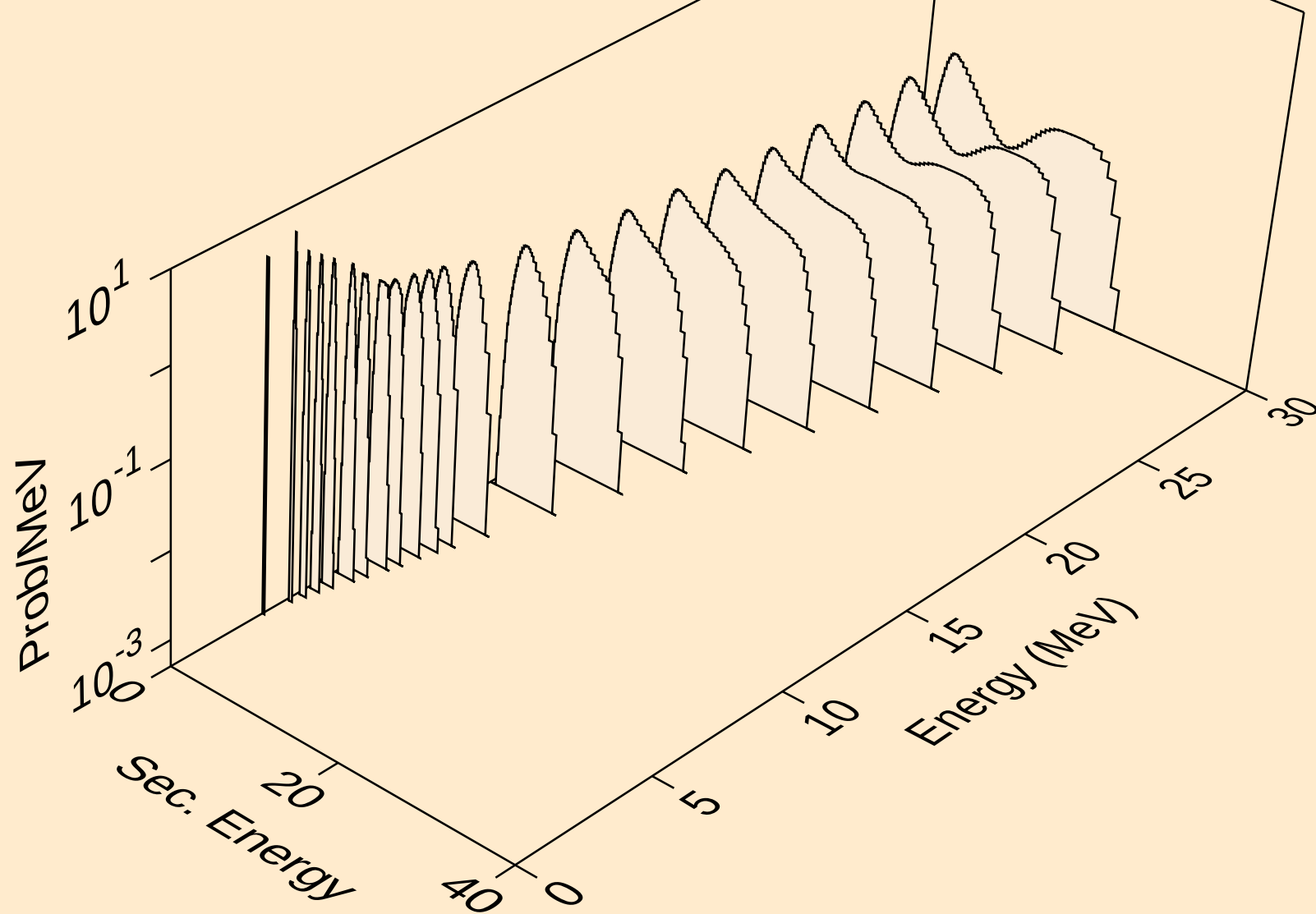
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protons from (n,npa)



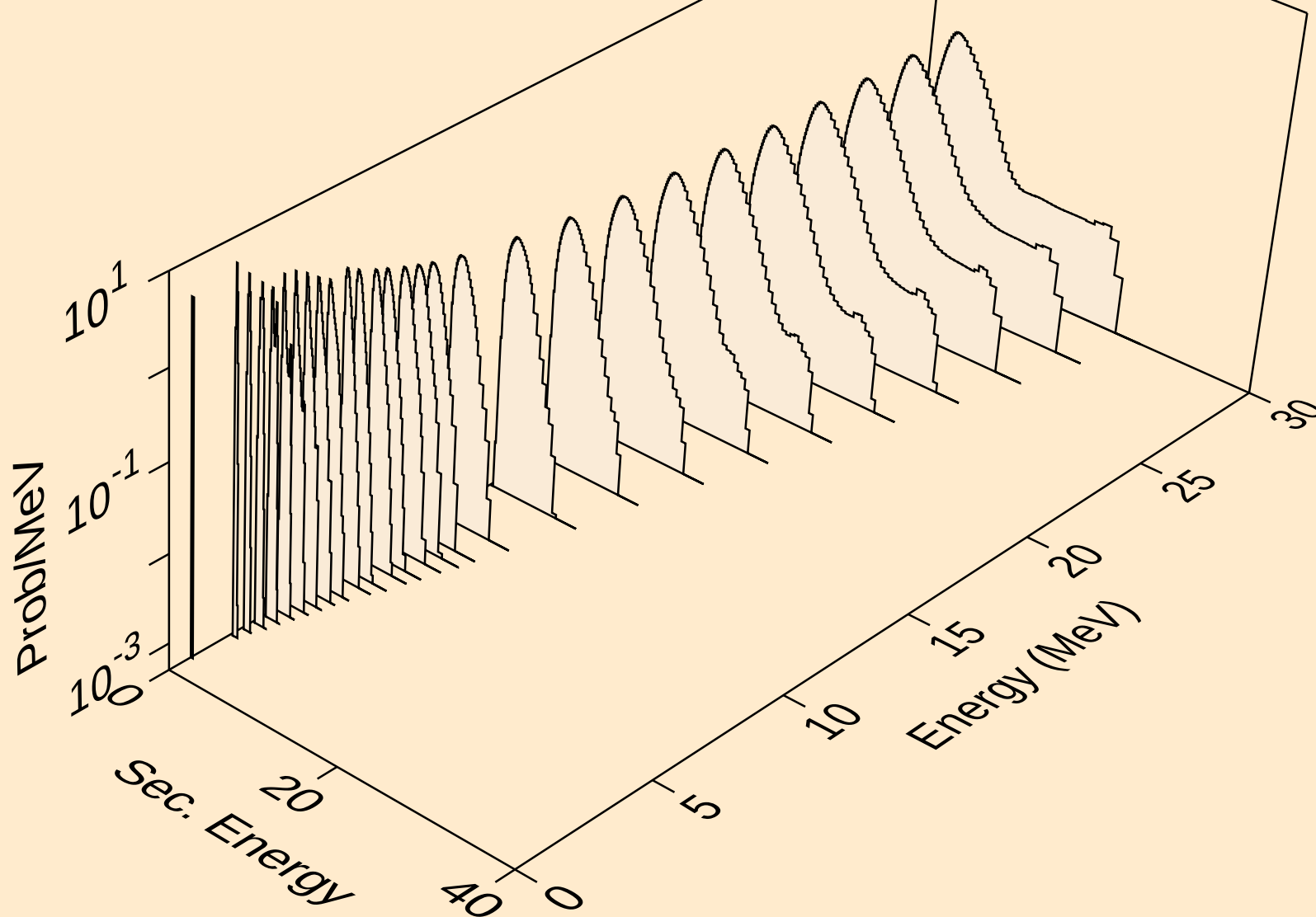
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2p)

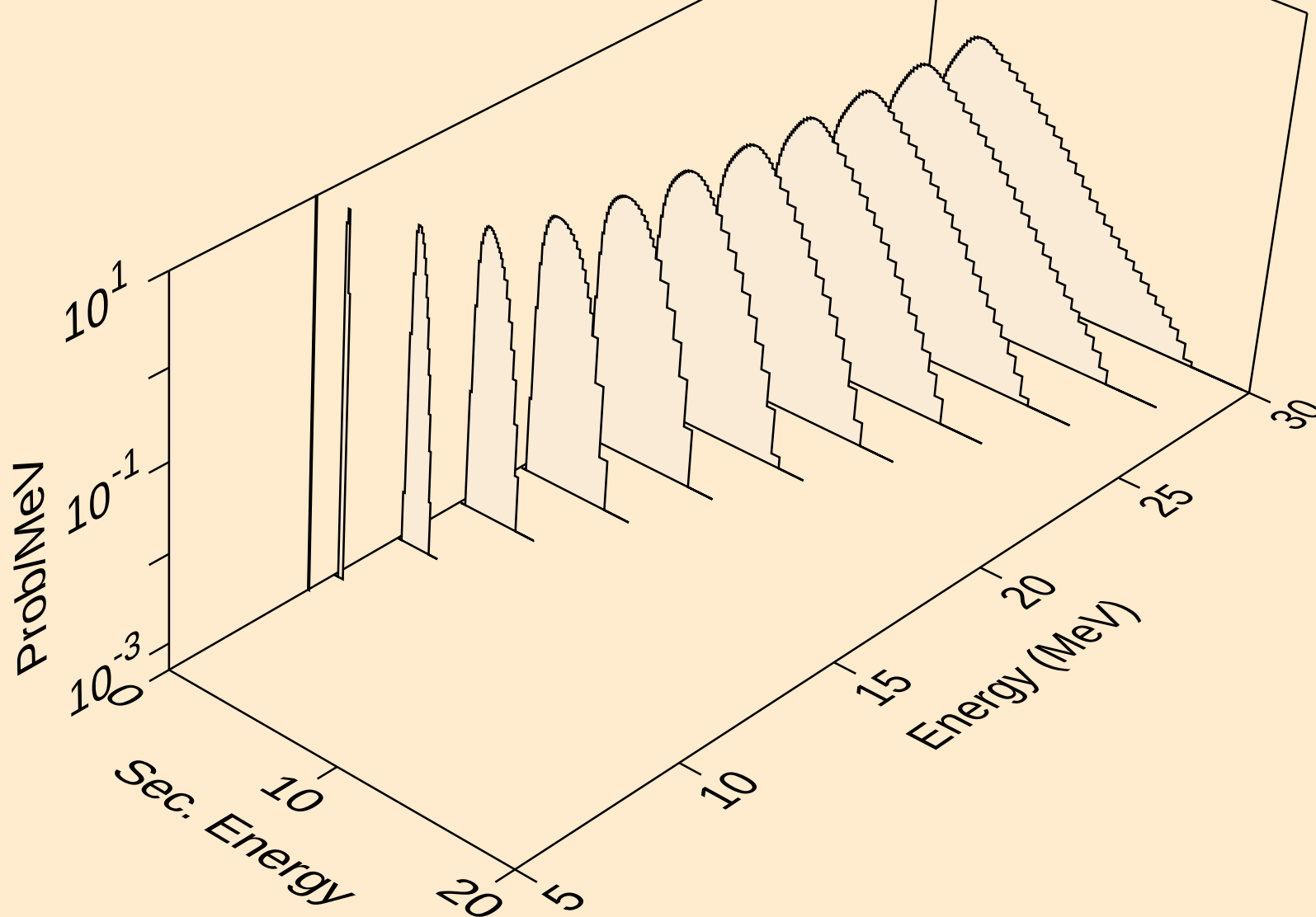


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)

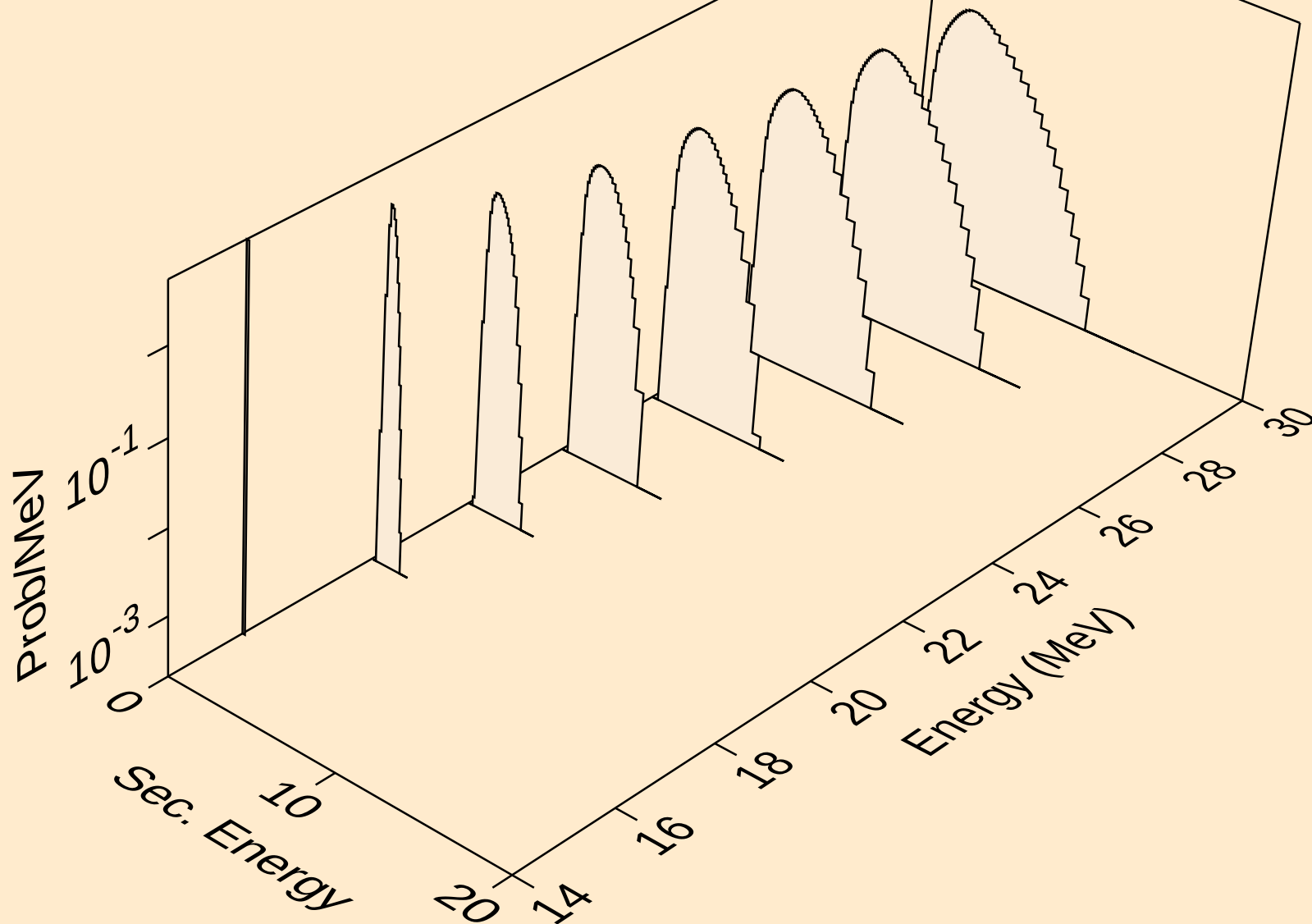




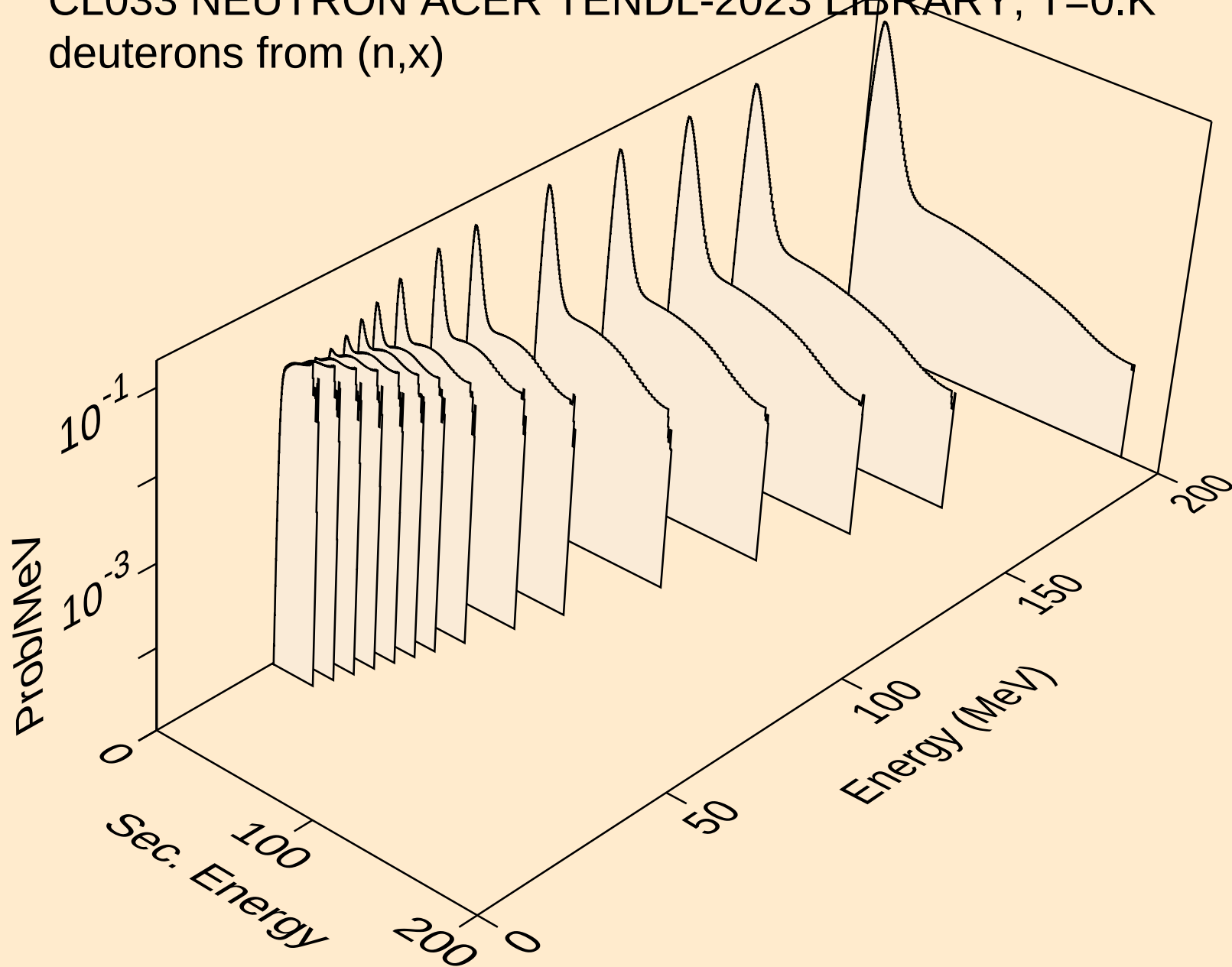
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protons from (n,pd)



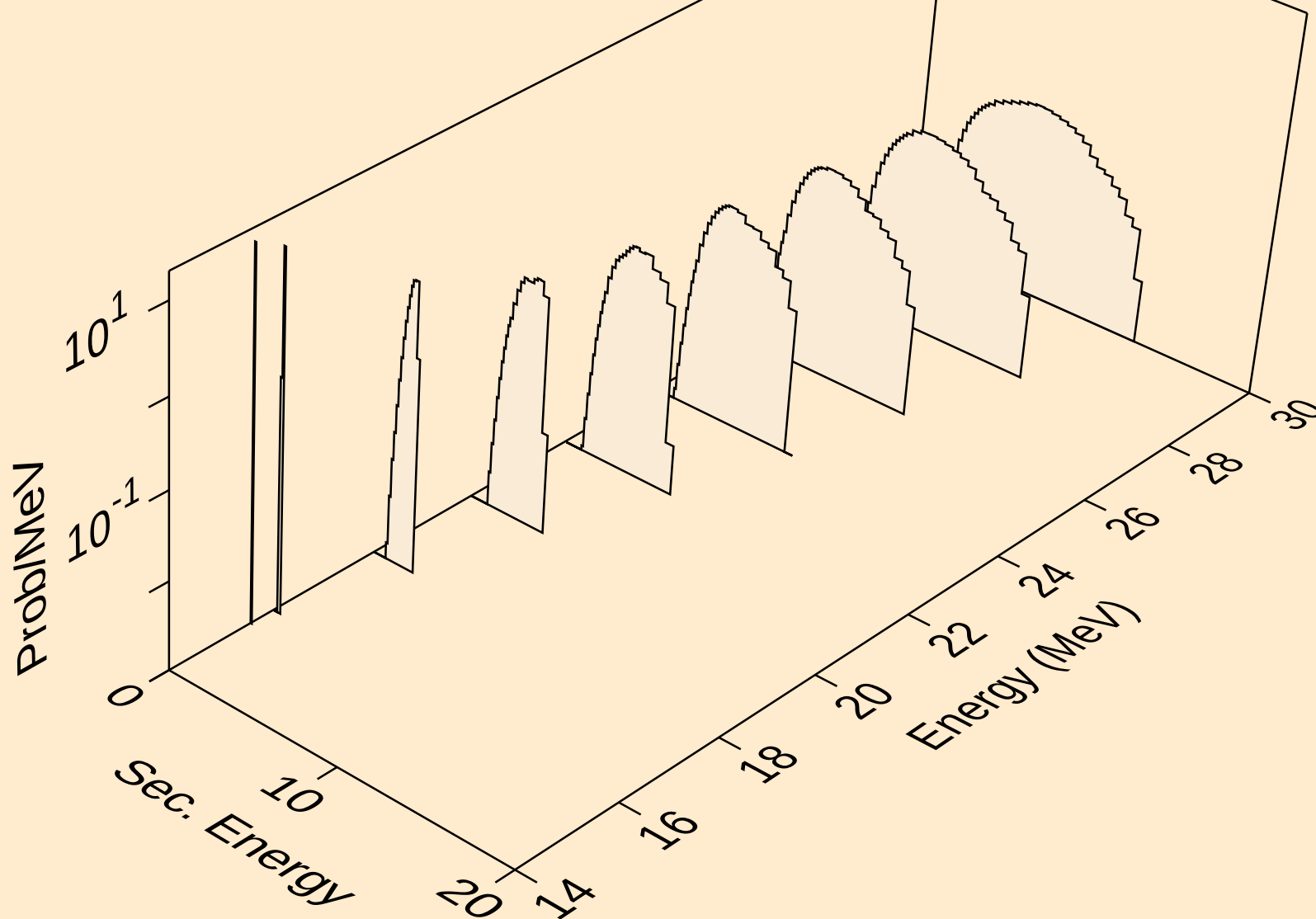
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protons from (n,pt)



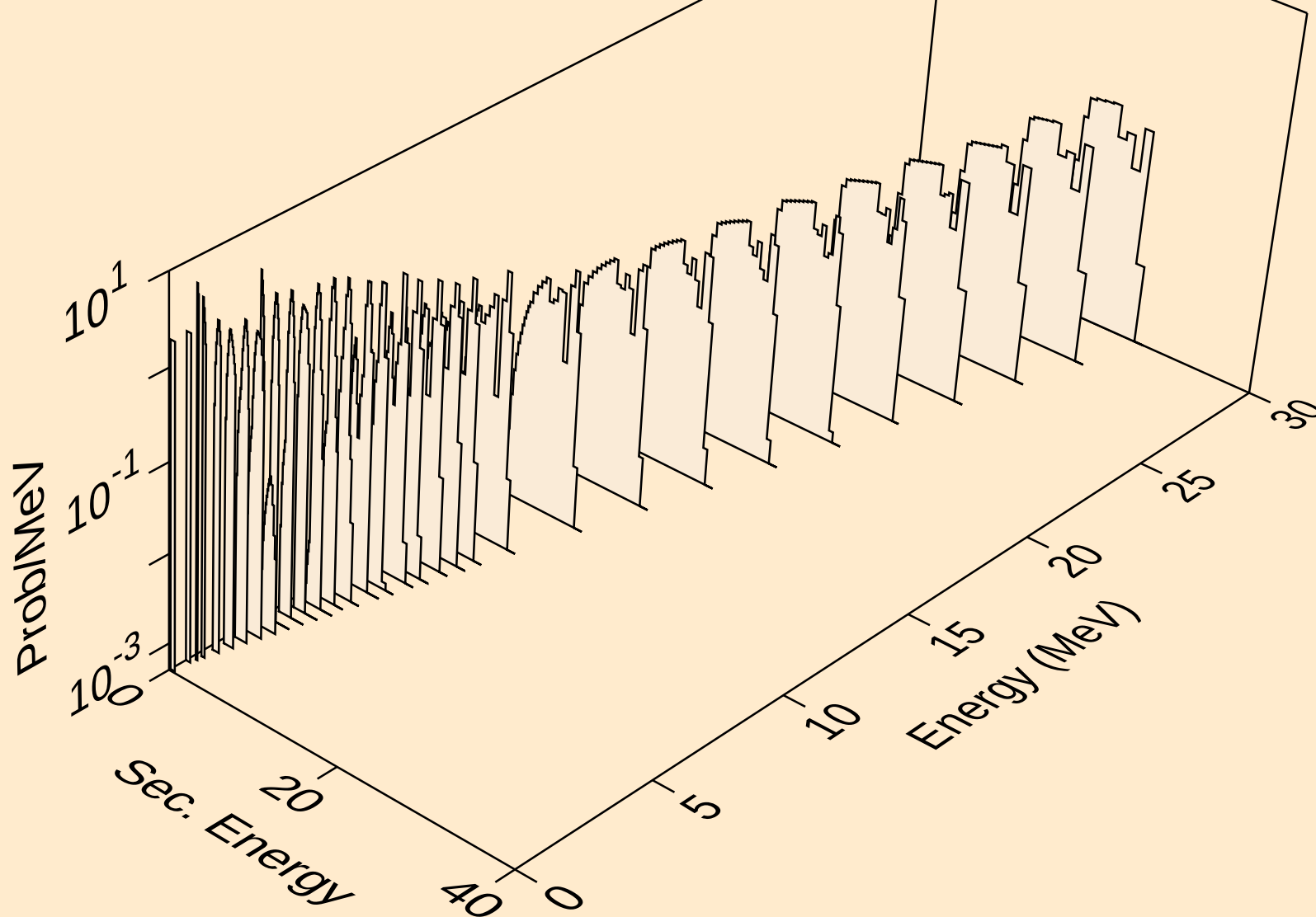
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deuterons from (n,x)



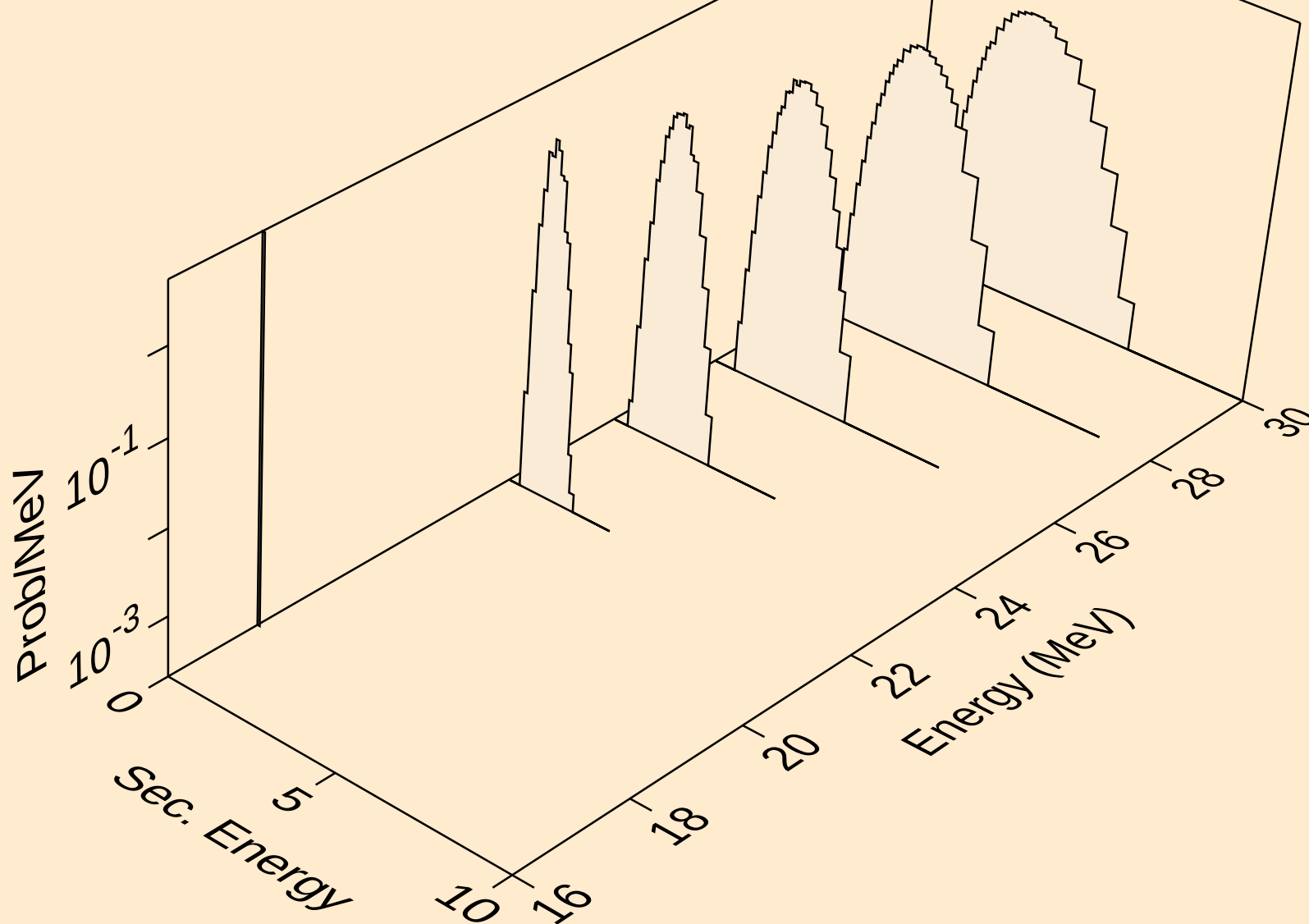
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deuterons from (n,n\*)d



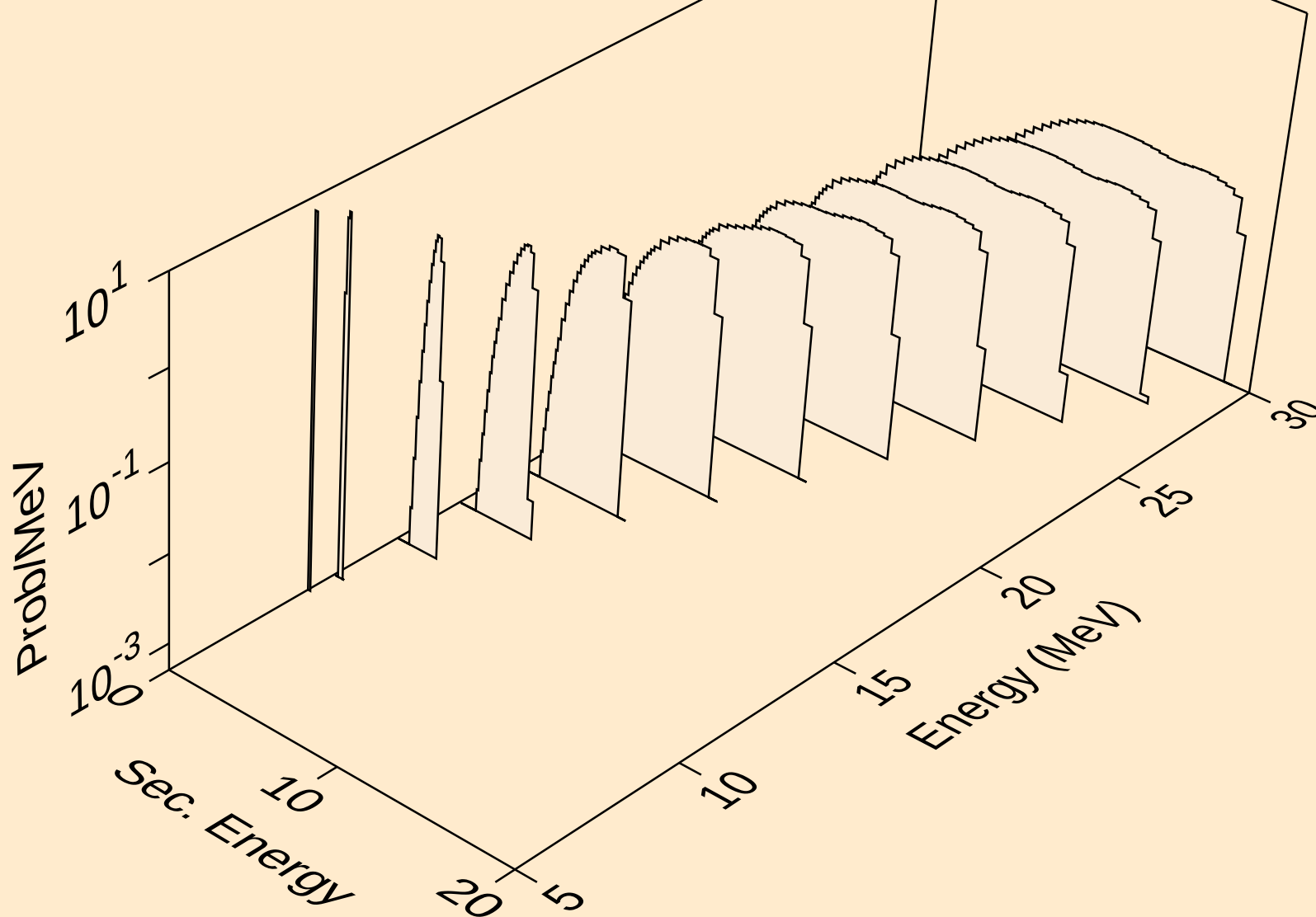
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deuterons from (n,d)



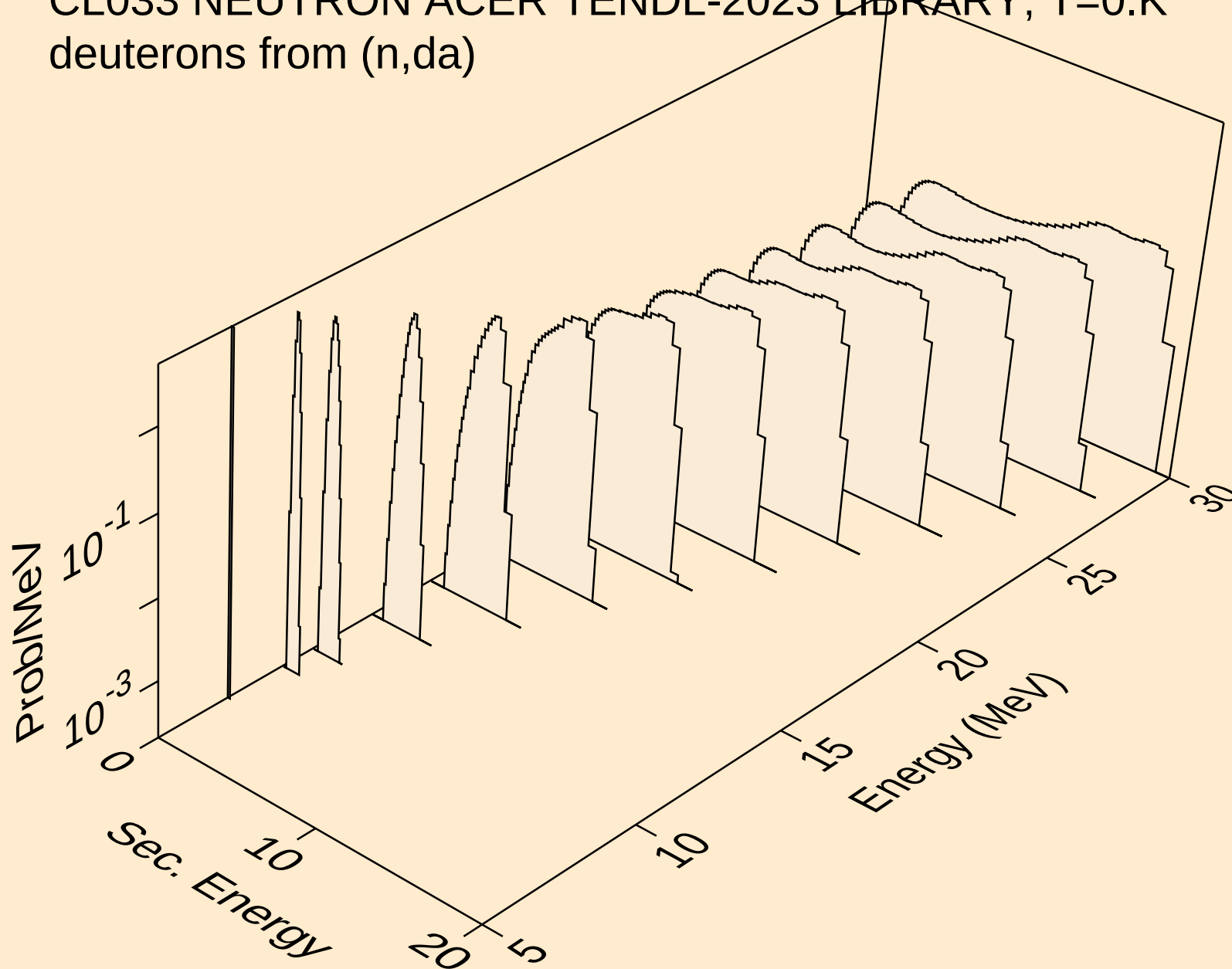
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,d2a)



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,pd)

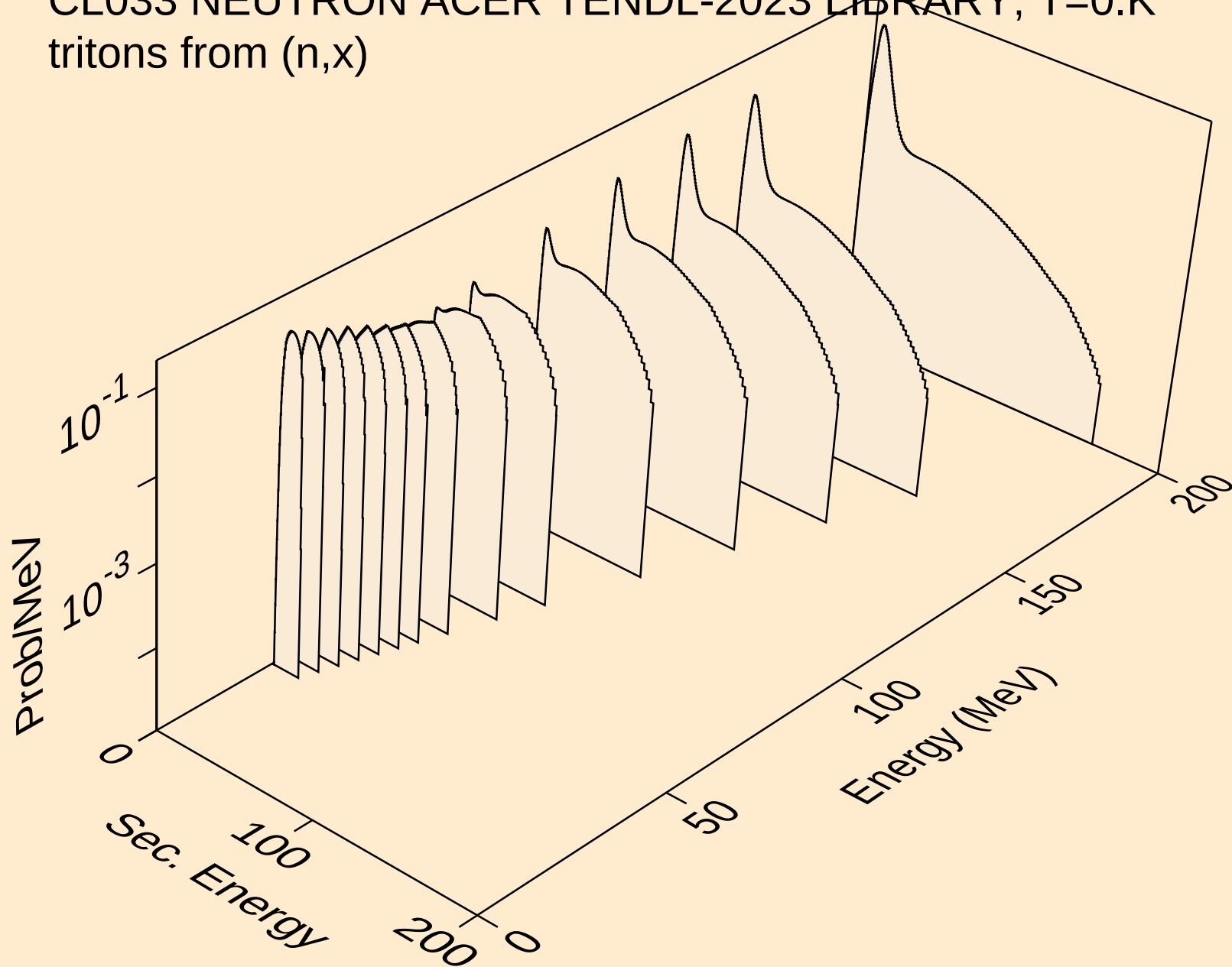


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deuterons from (n,da)

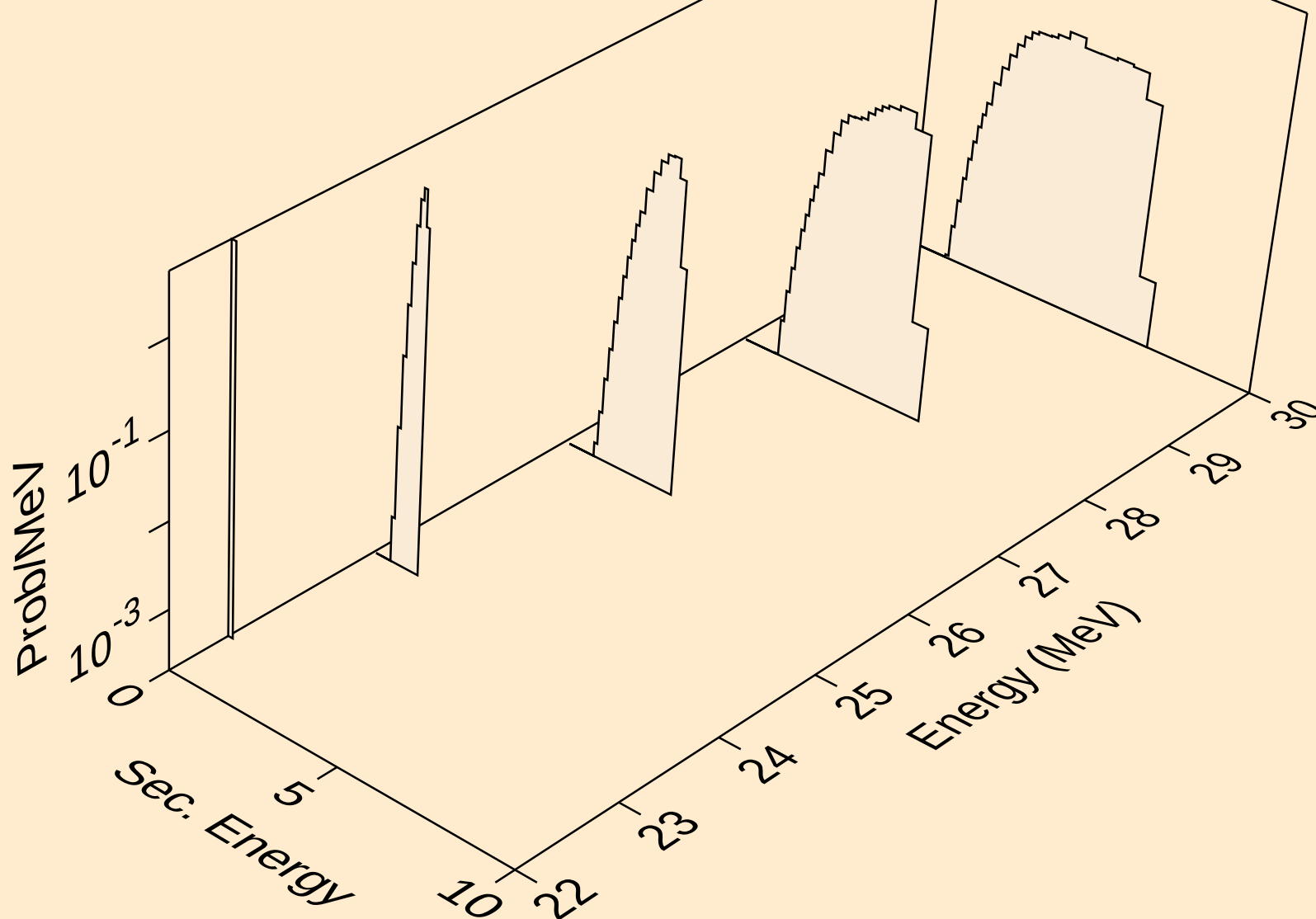




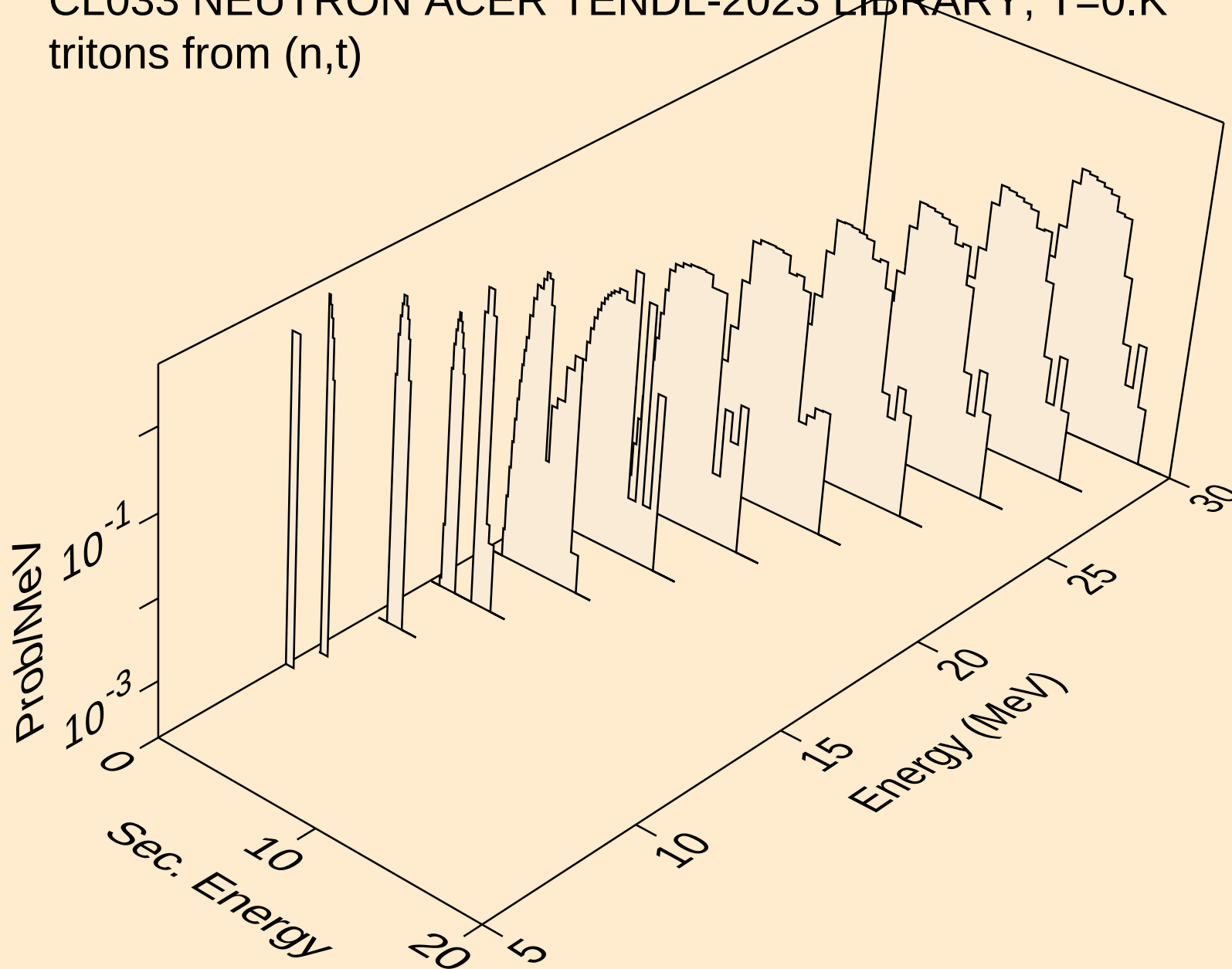
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tritons from (n,x)



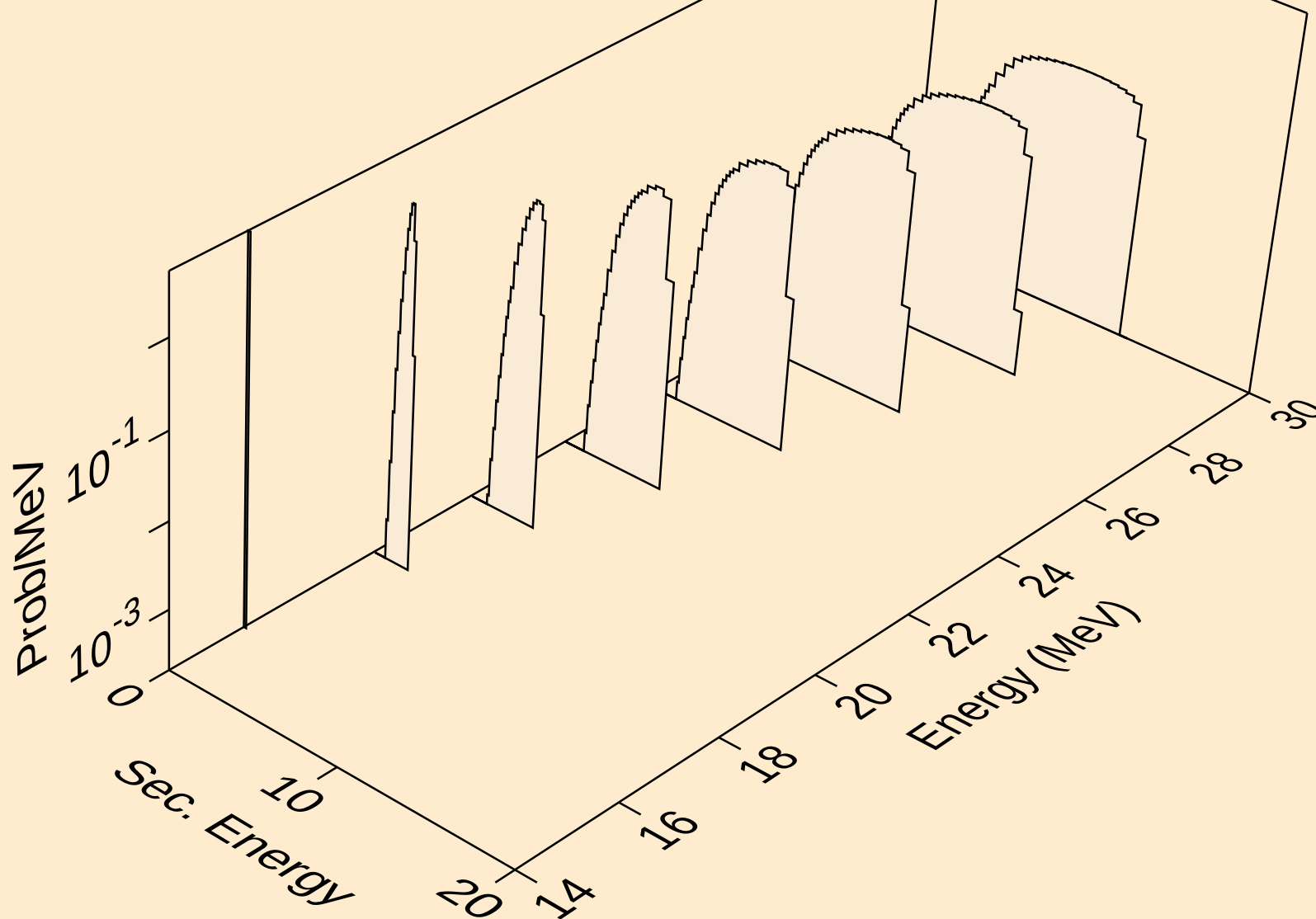
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tritons from (n,n\*)t



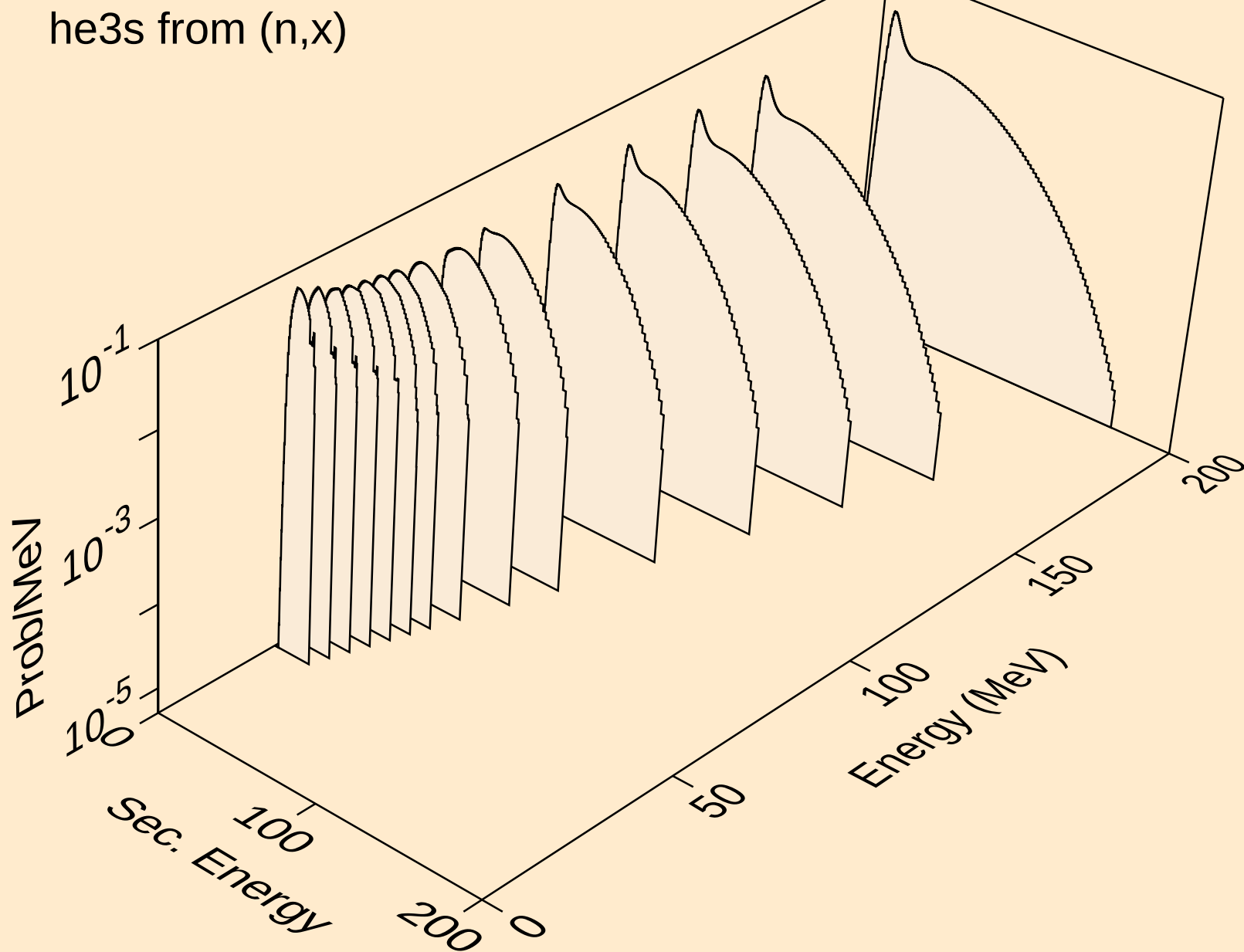
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tritons from (n,t)



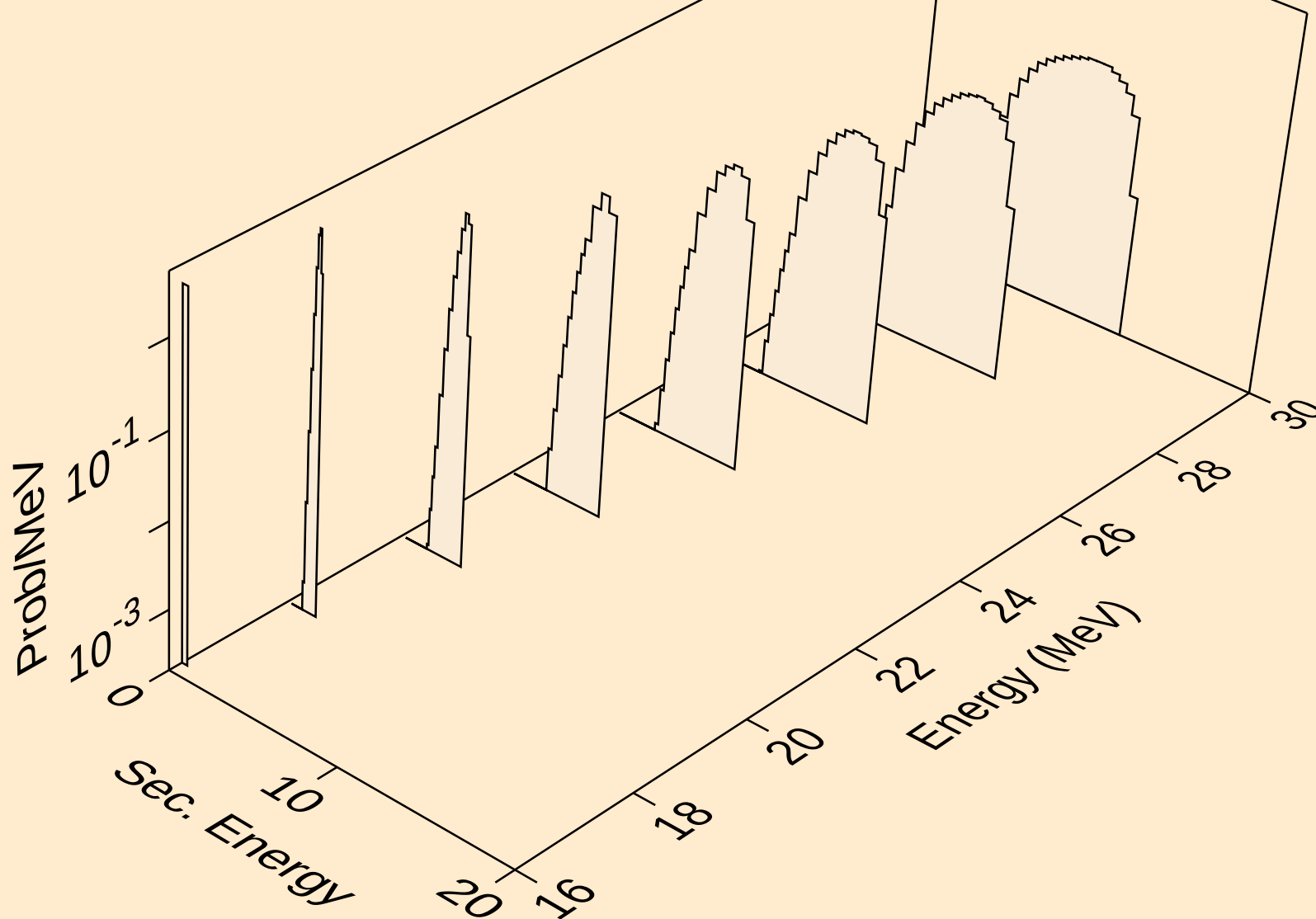
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tritons from (n,pt)



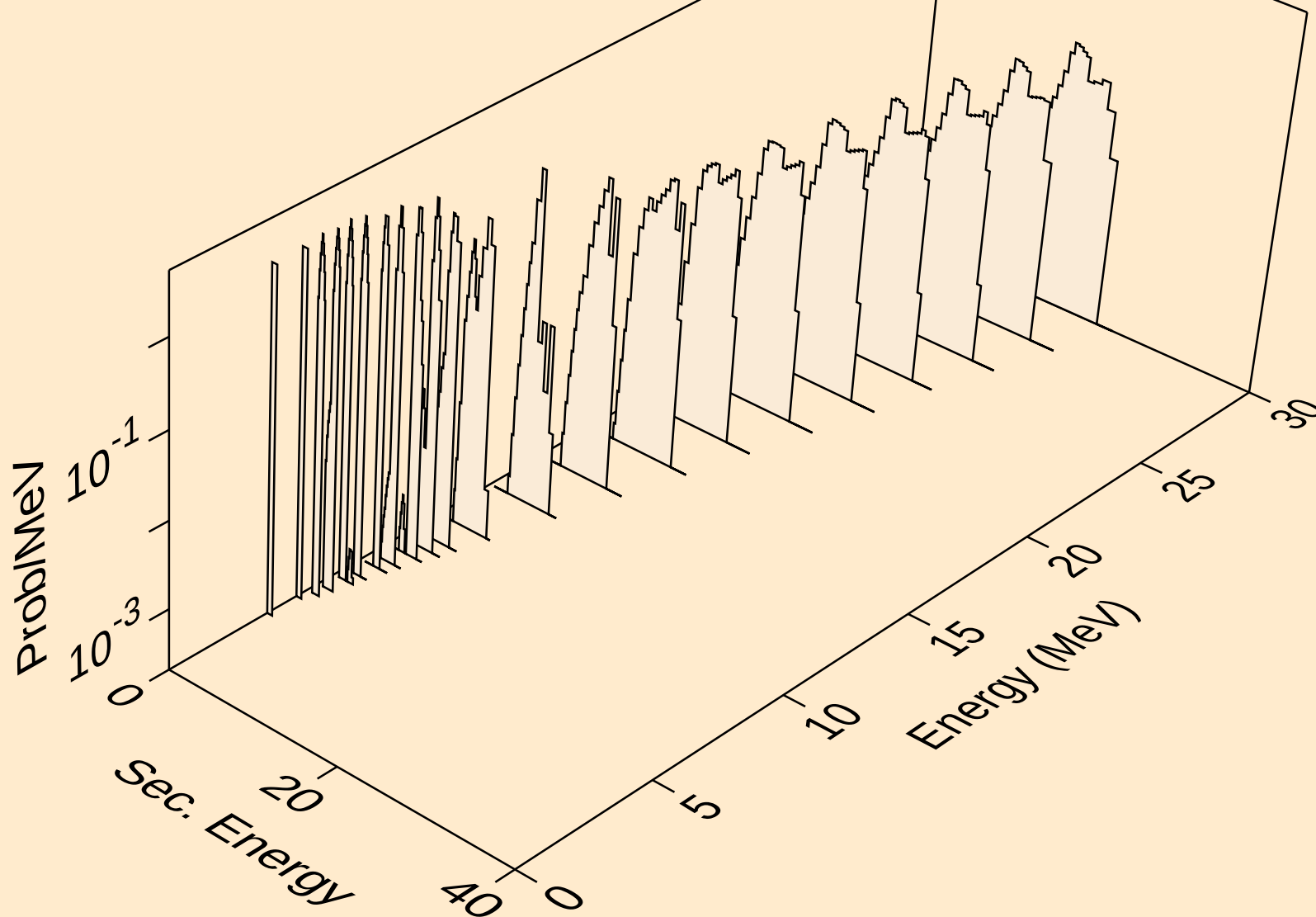
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he3s from (n,x)



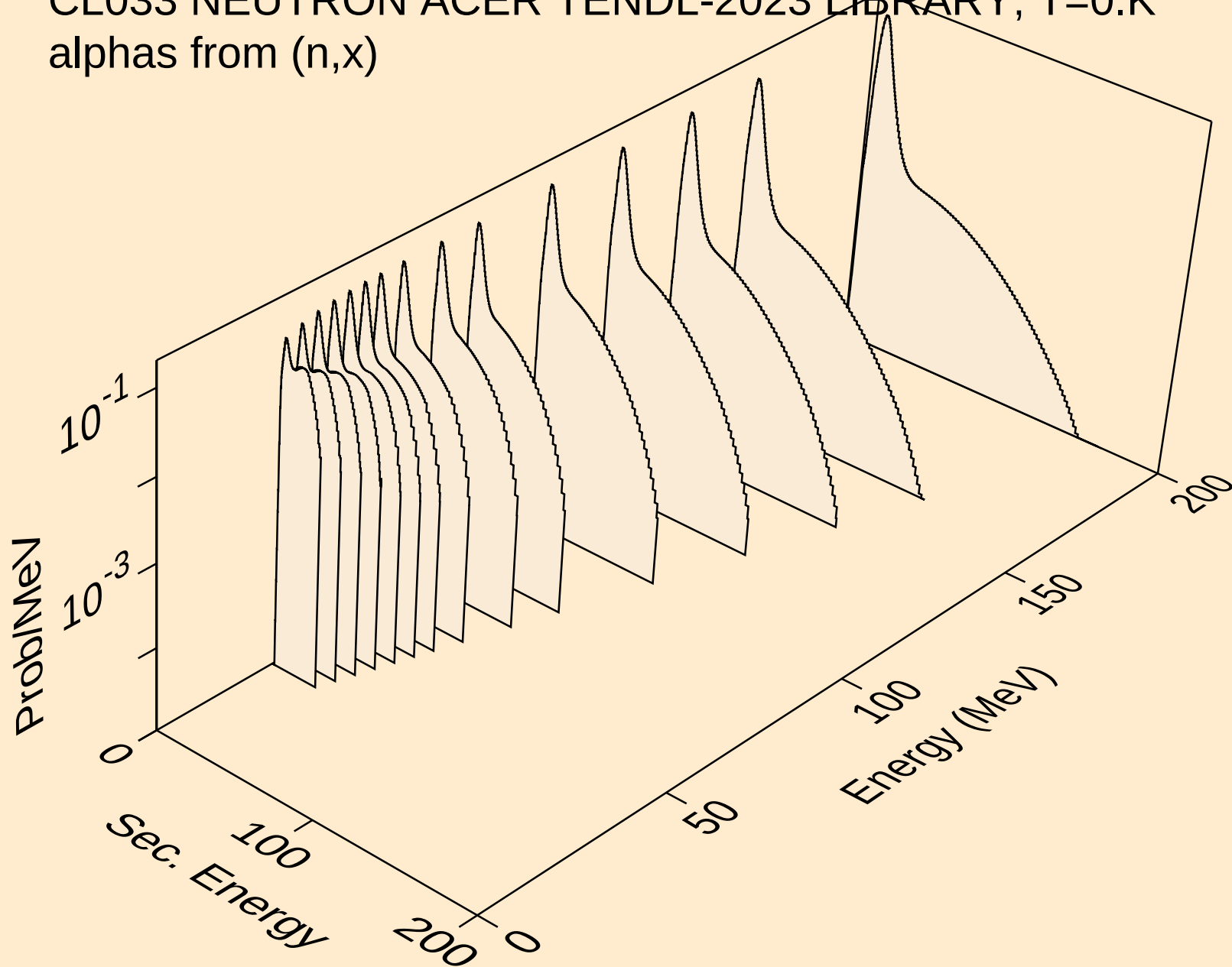
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)

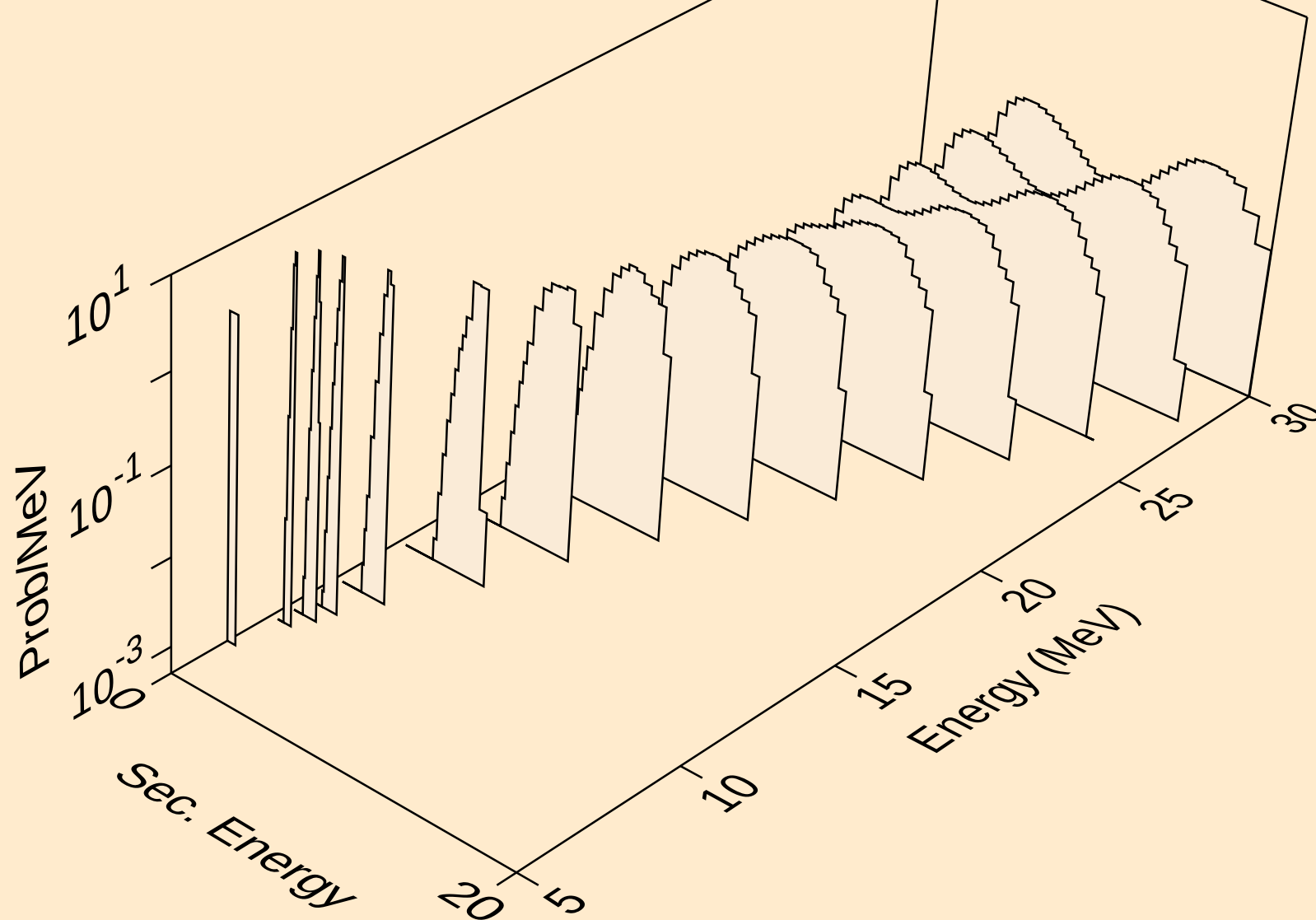


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)

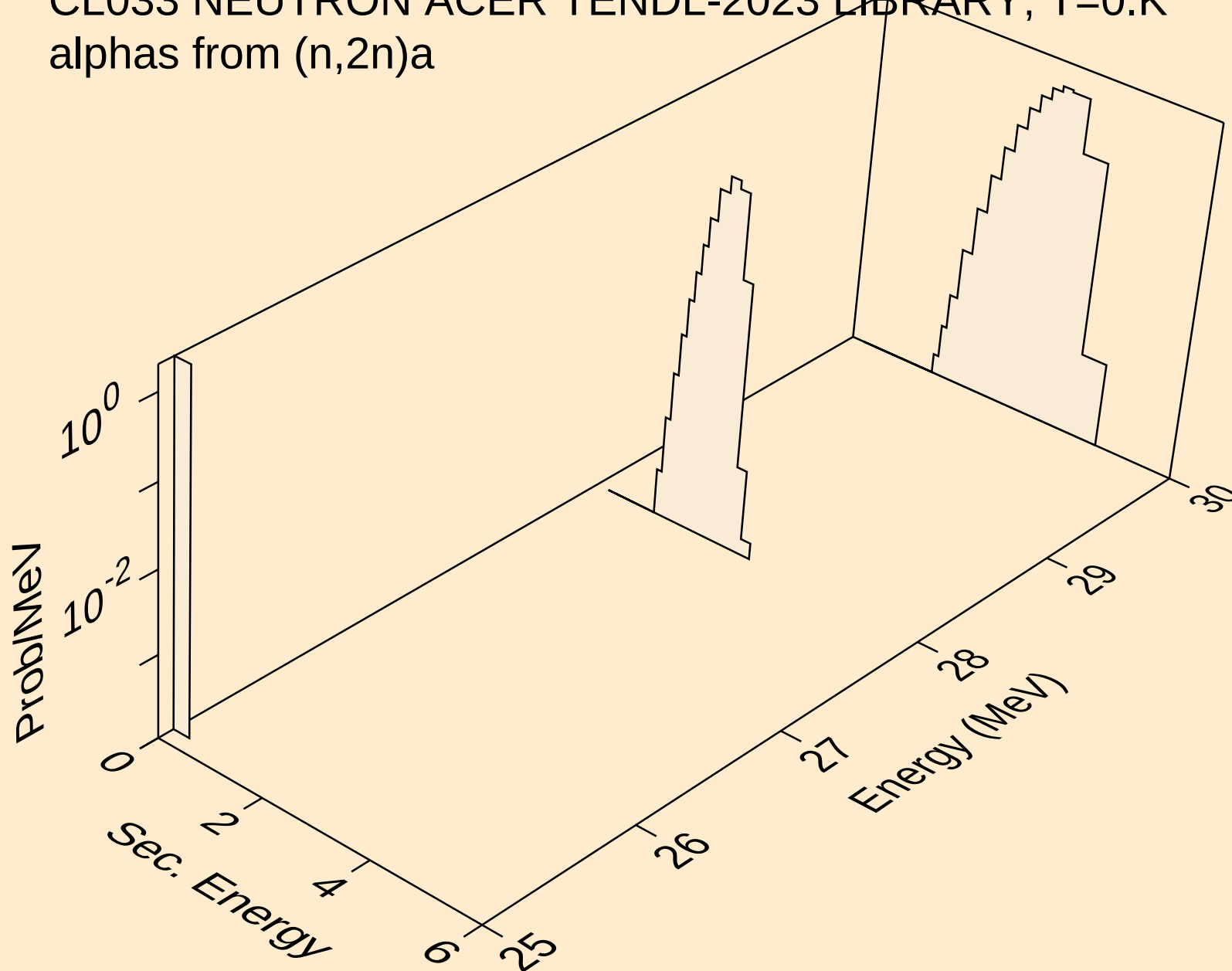




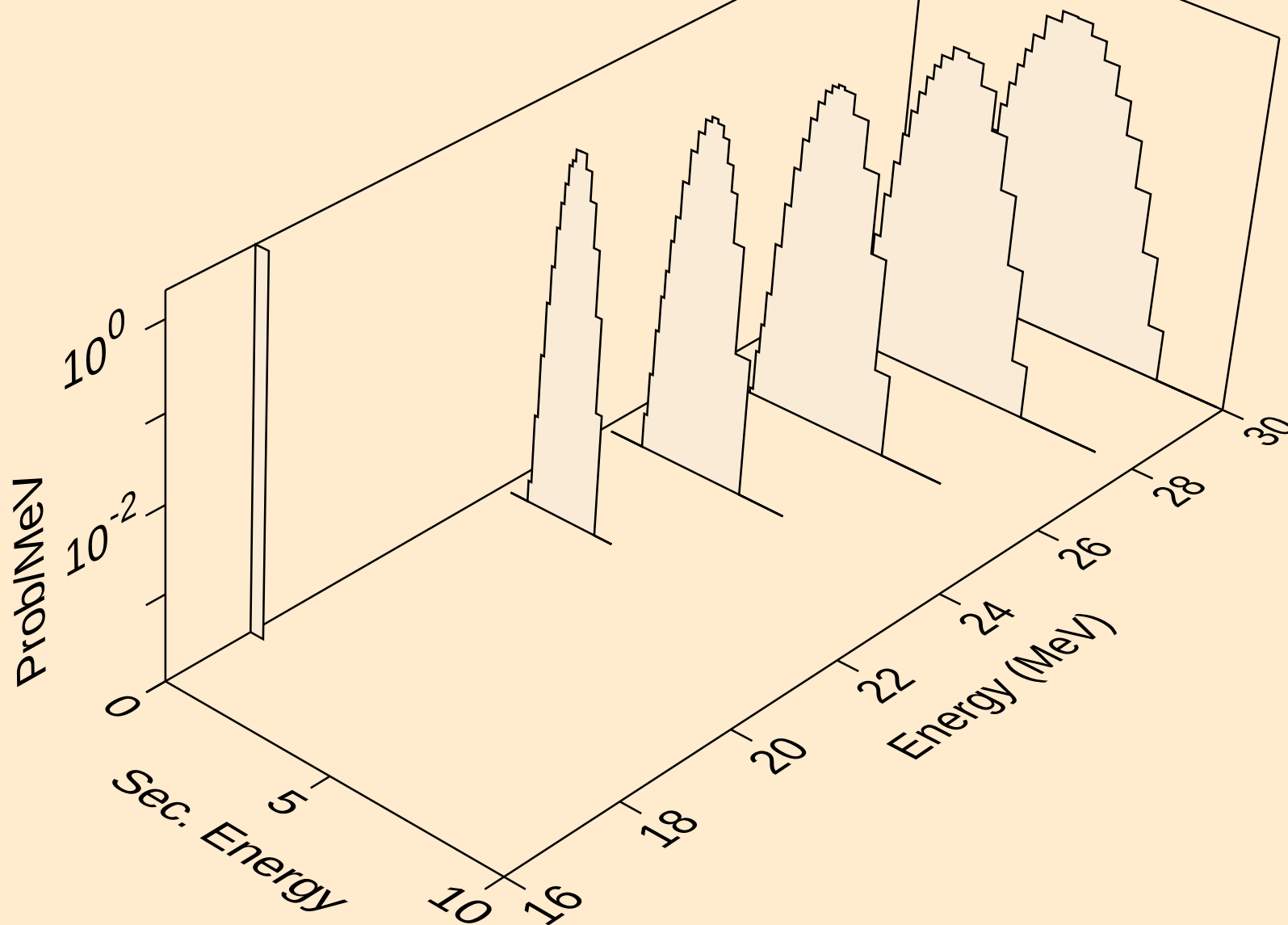
CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



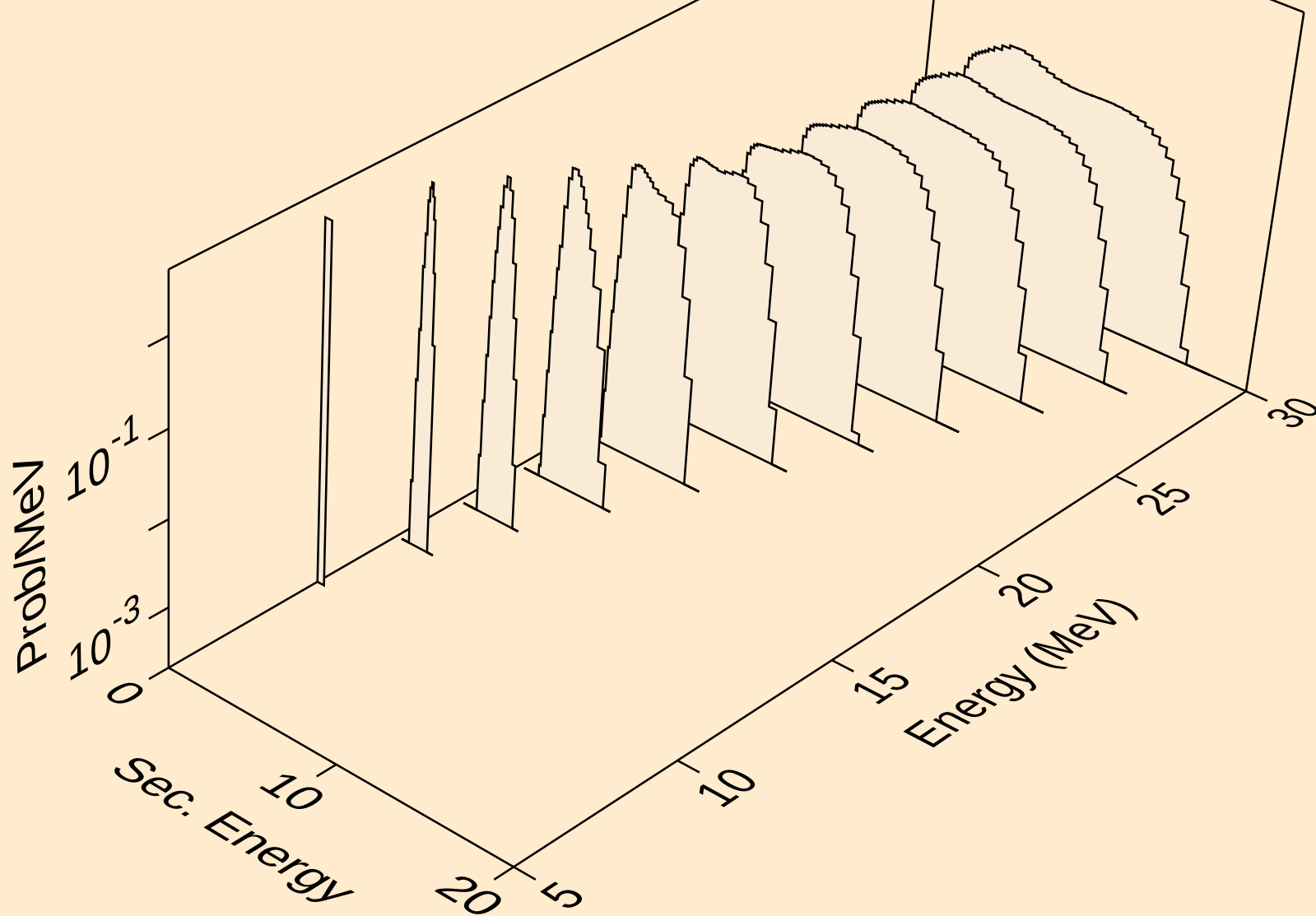
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alphas from (n,2n)a



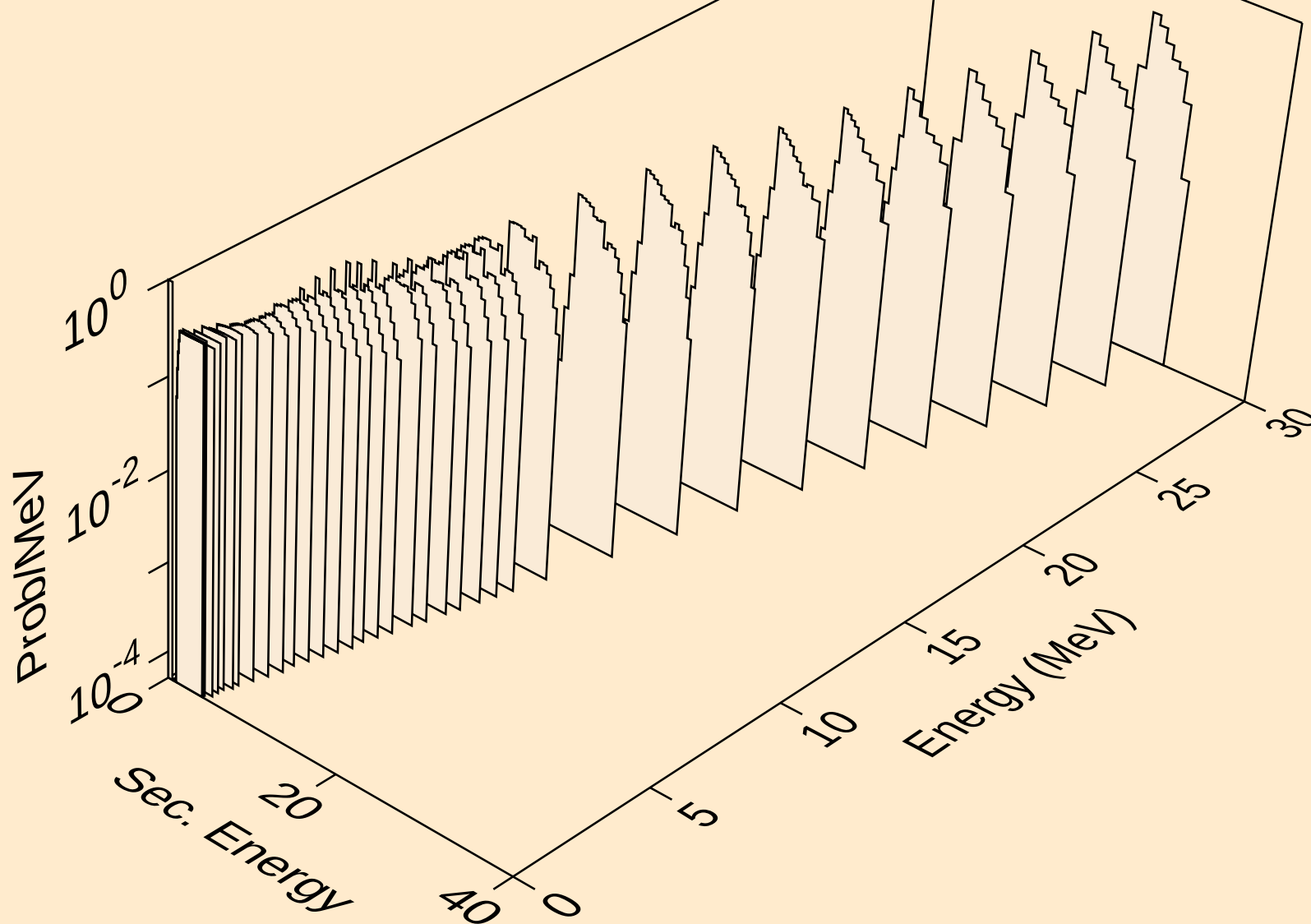
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alphas from (n,n\*)2a



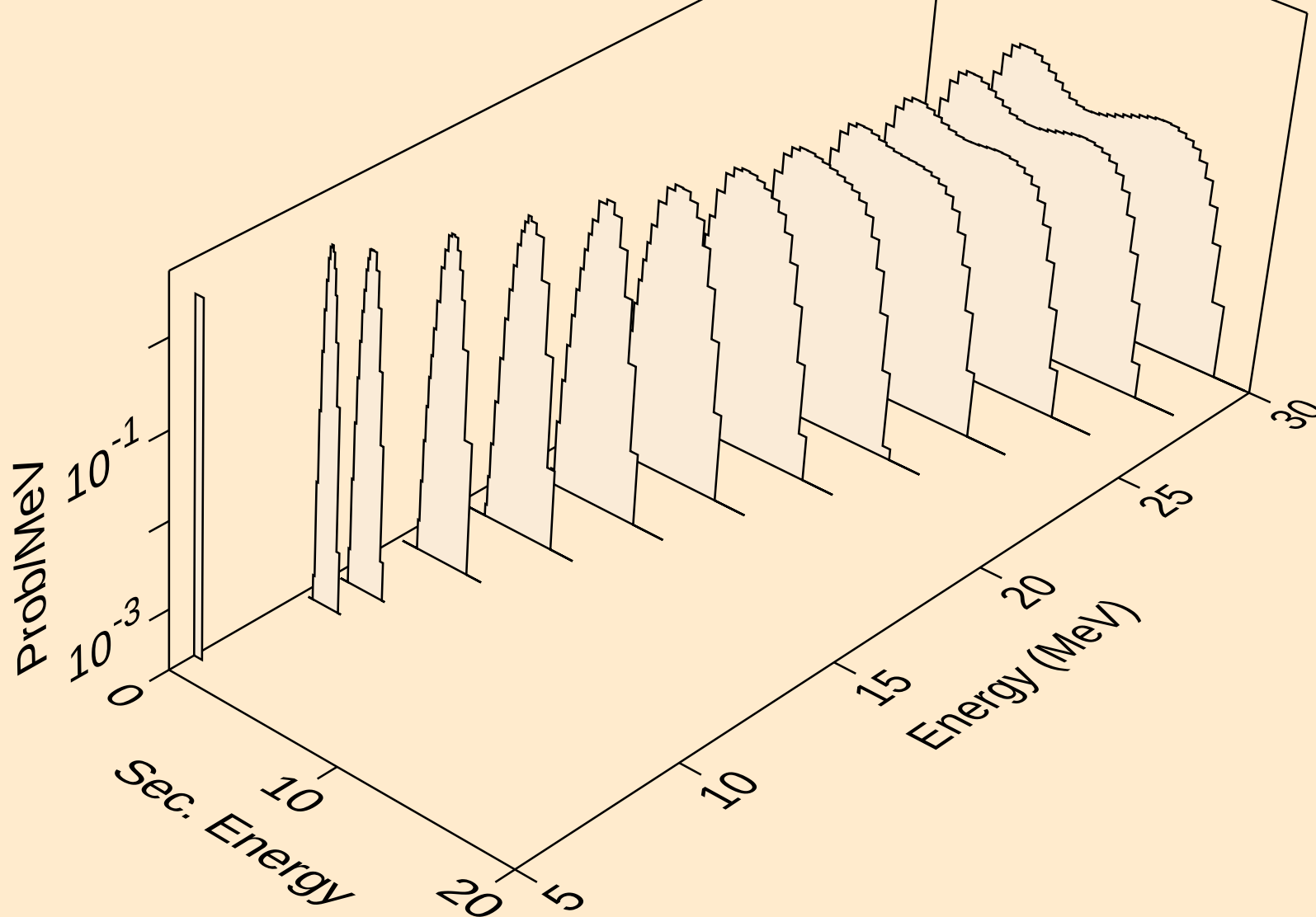
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alphas from (n,npa)



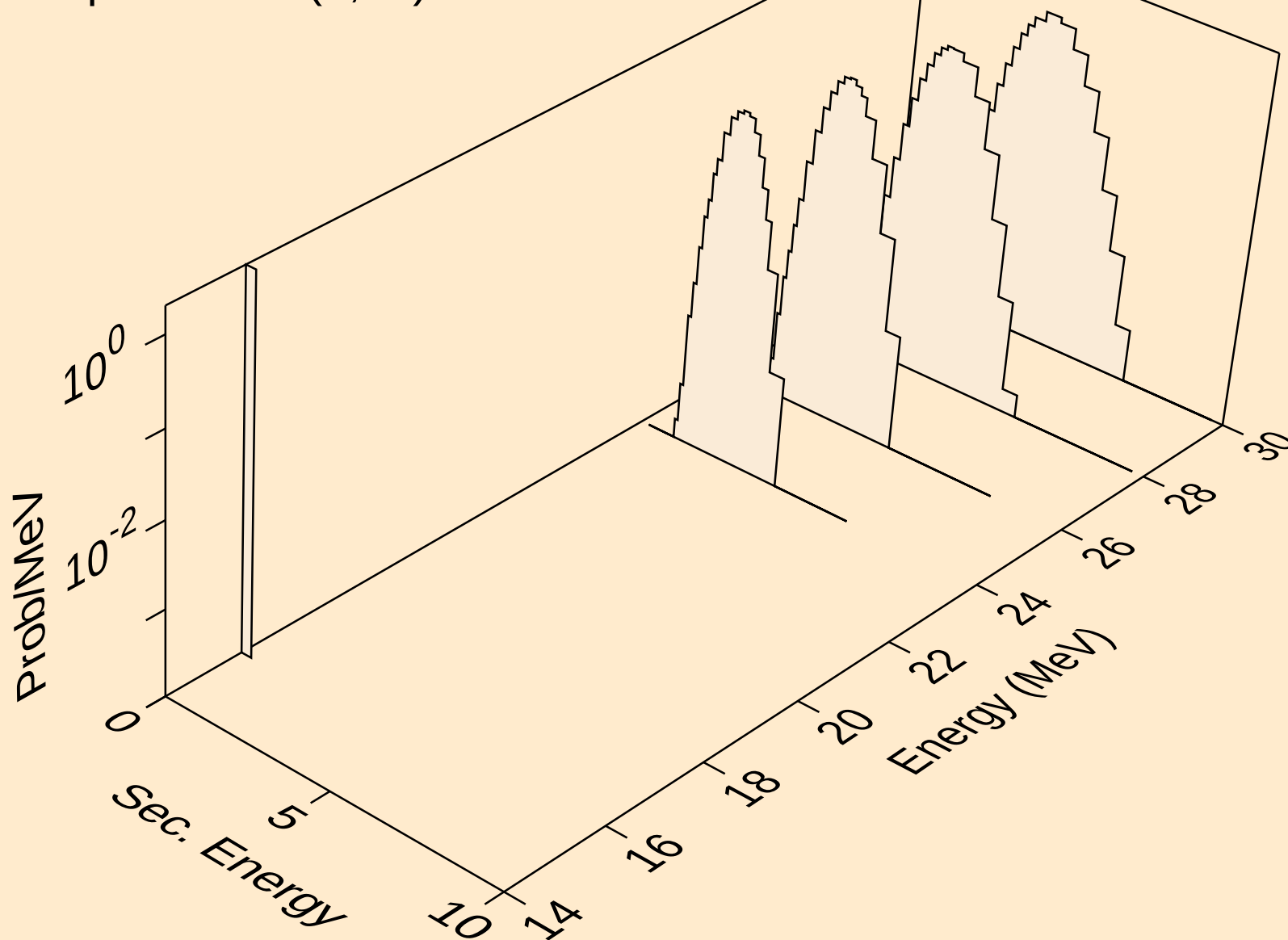
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alphas from (n,a)



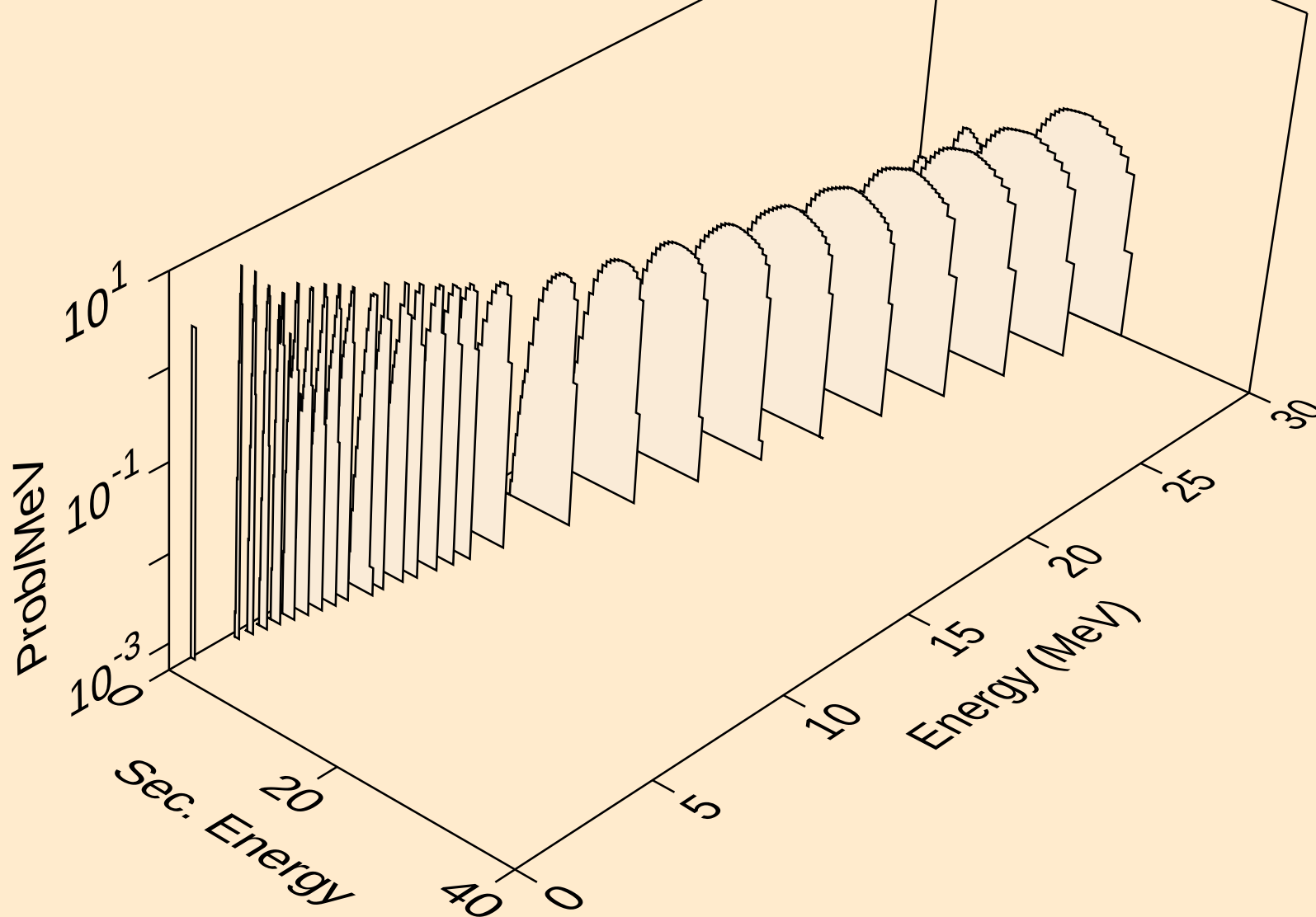
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alphas from (n,2a)



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alphas from (n,3a)

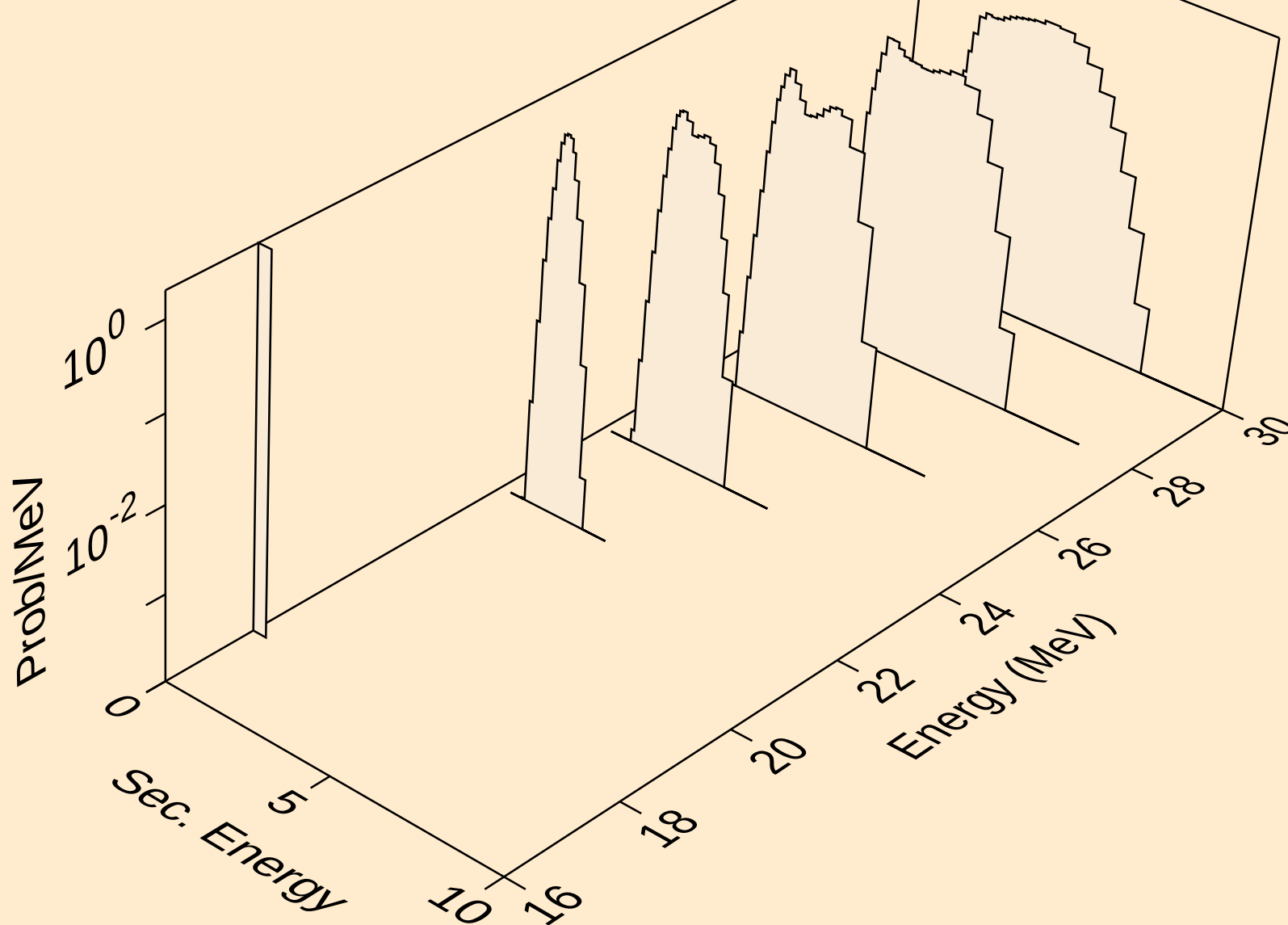


CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)





CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,d2a)



CL033 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

