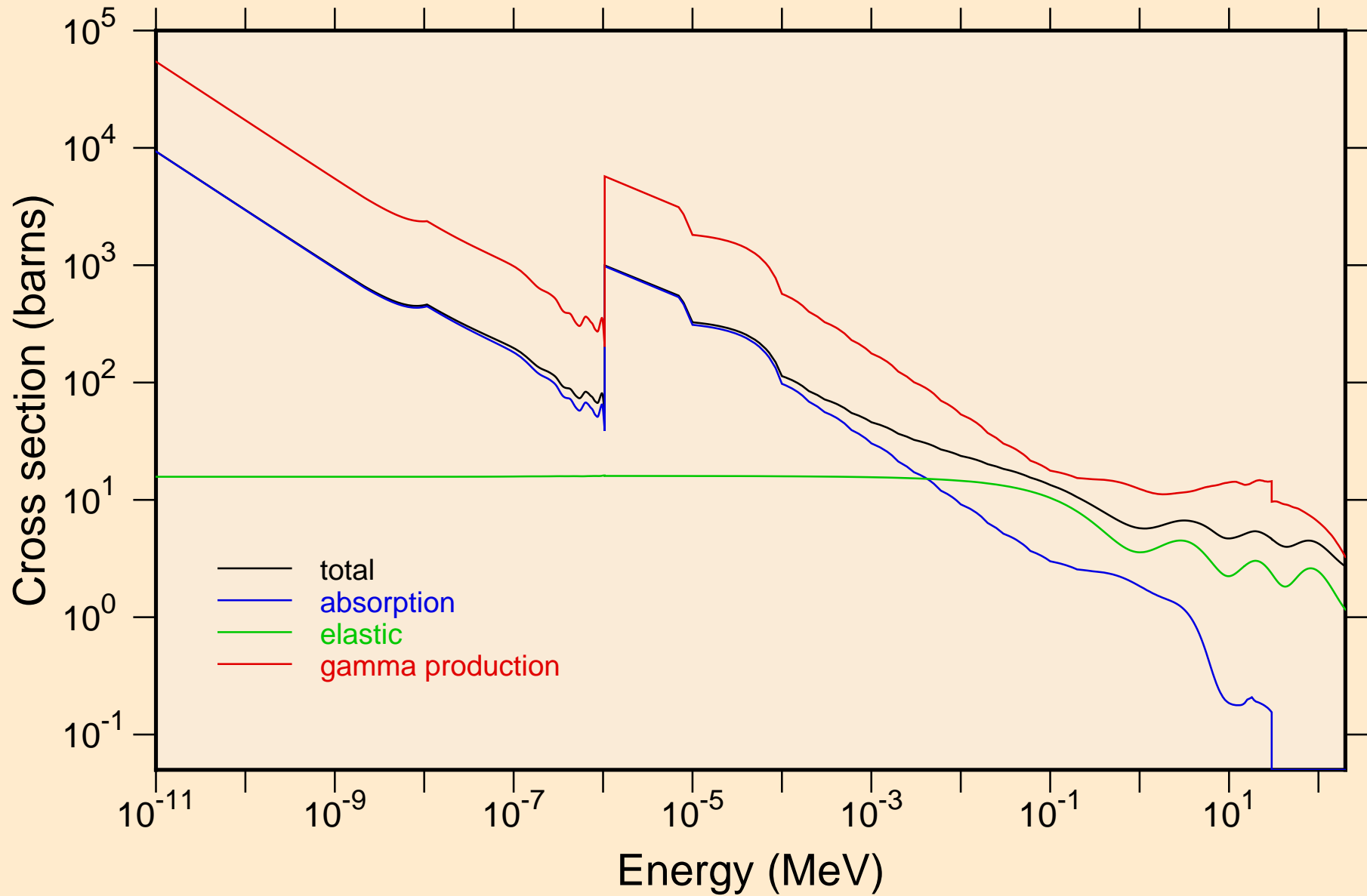


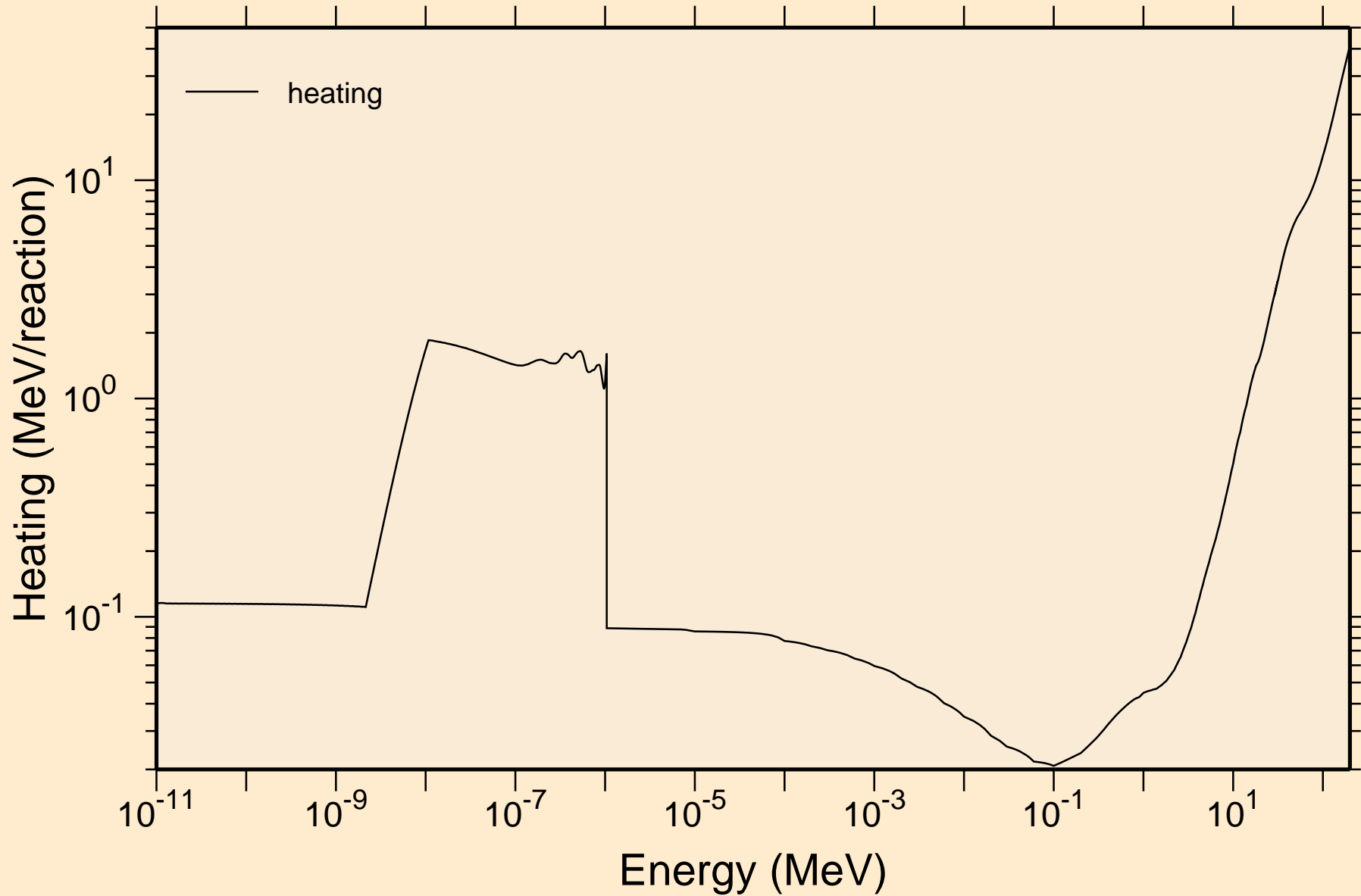
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Principal cross sections



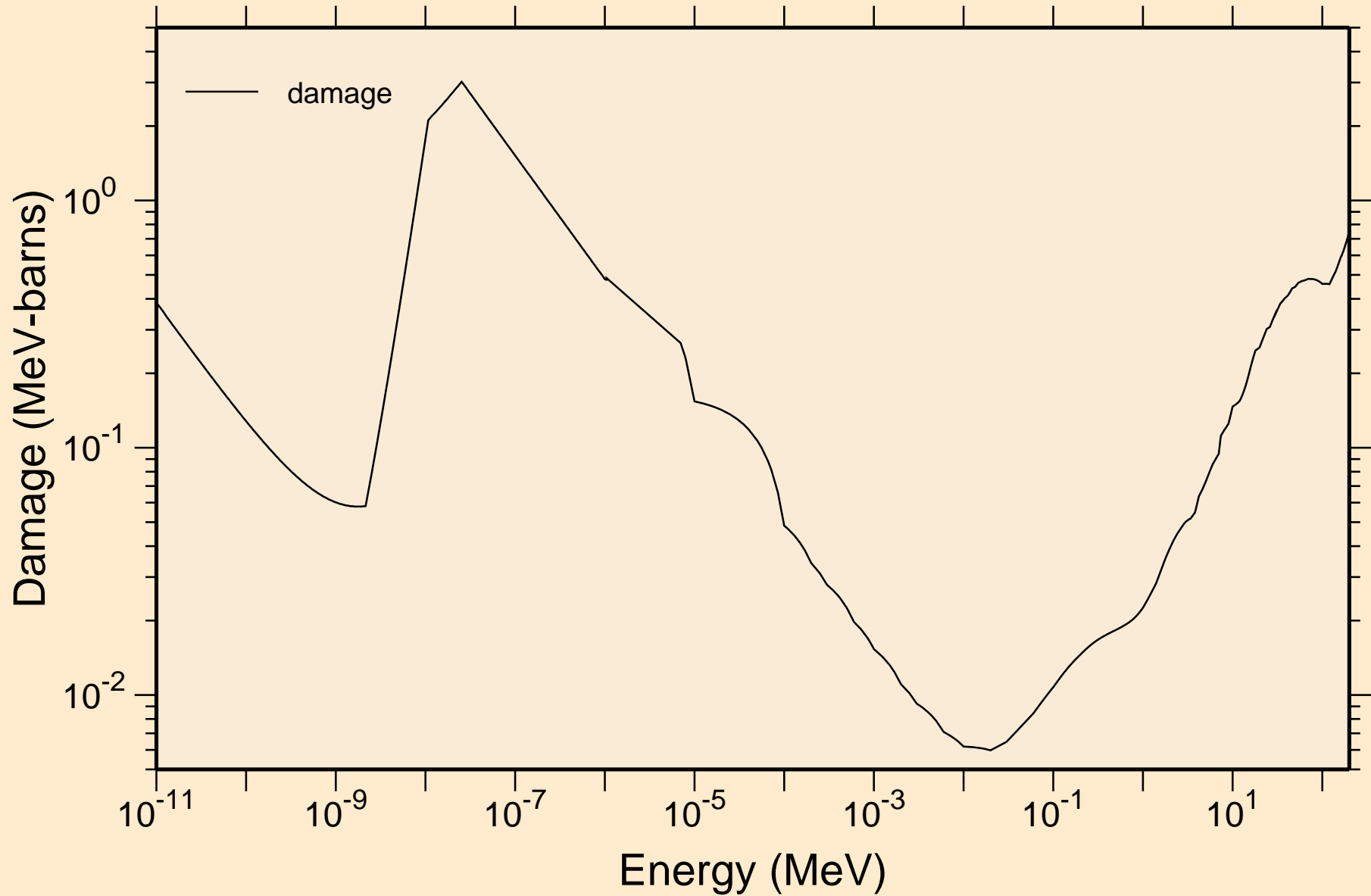
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Heating

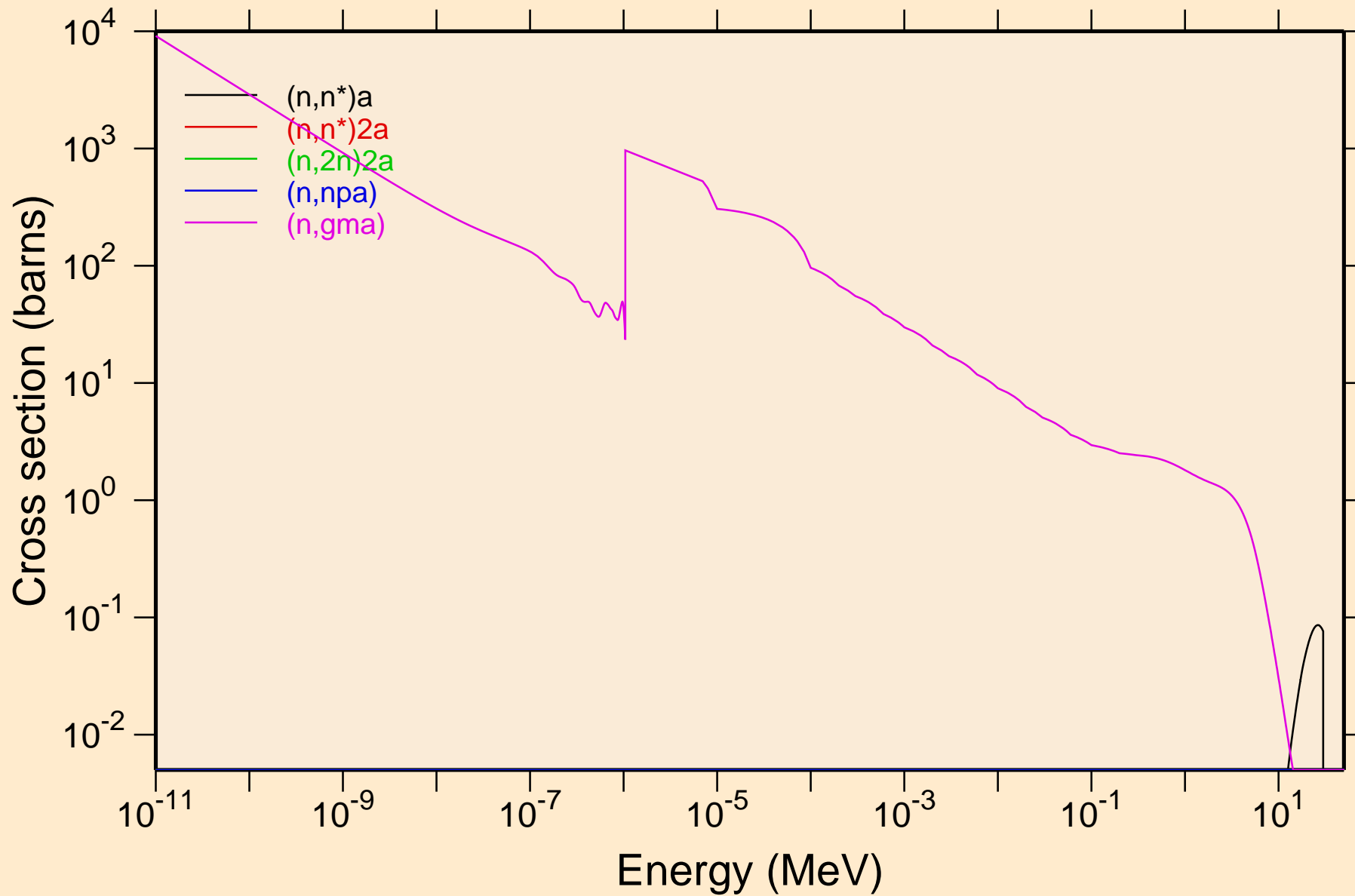


IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

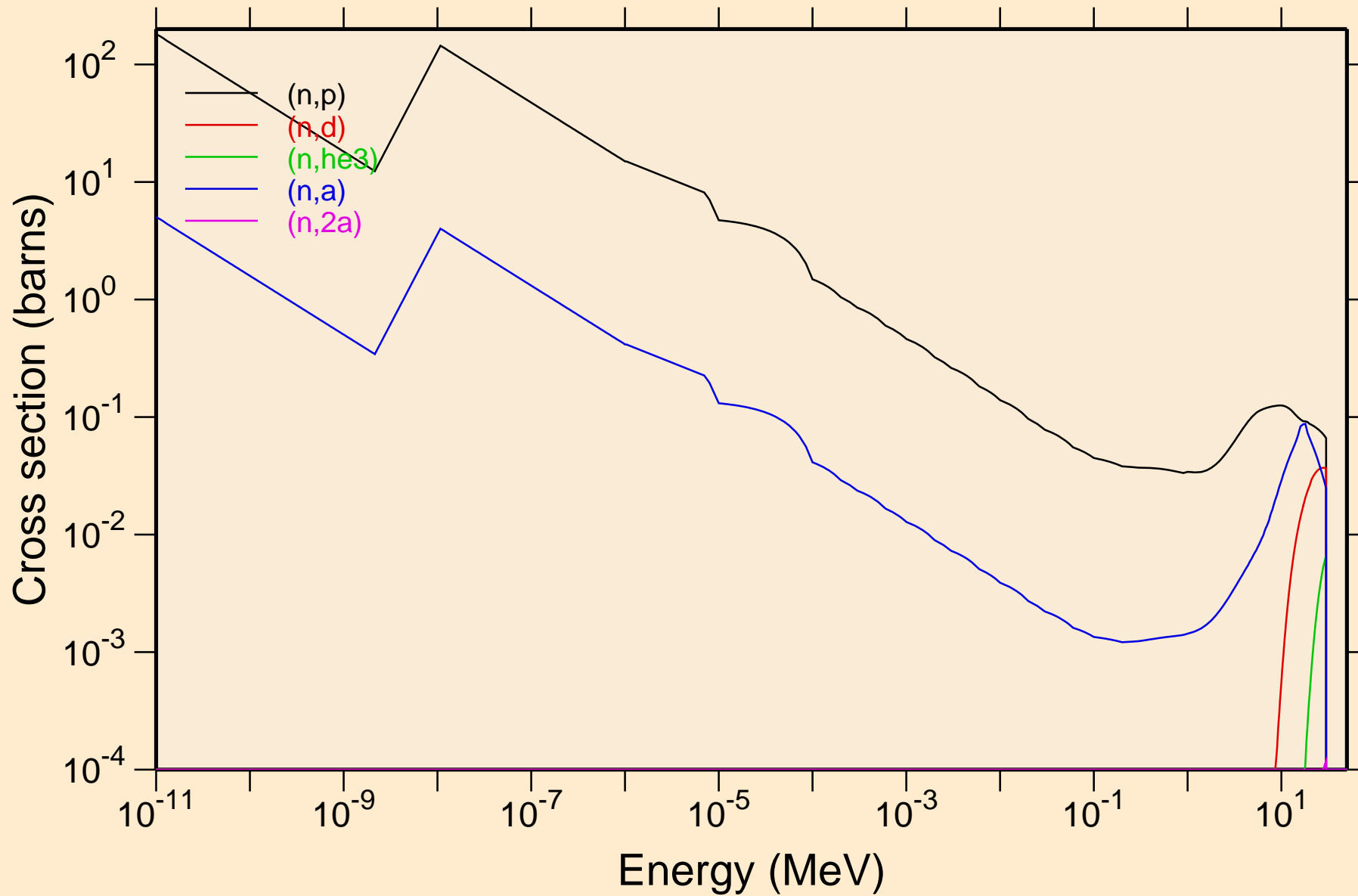
Damage



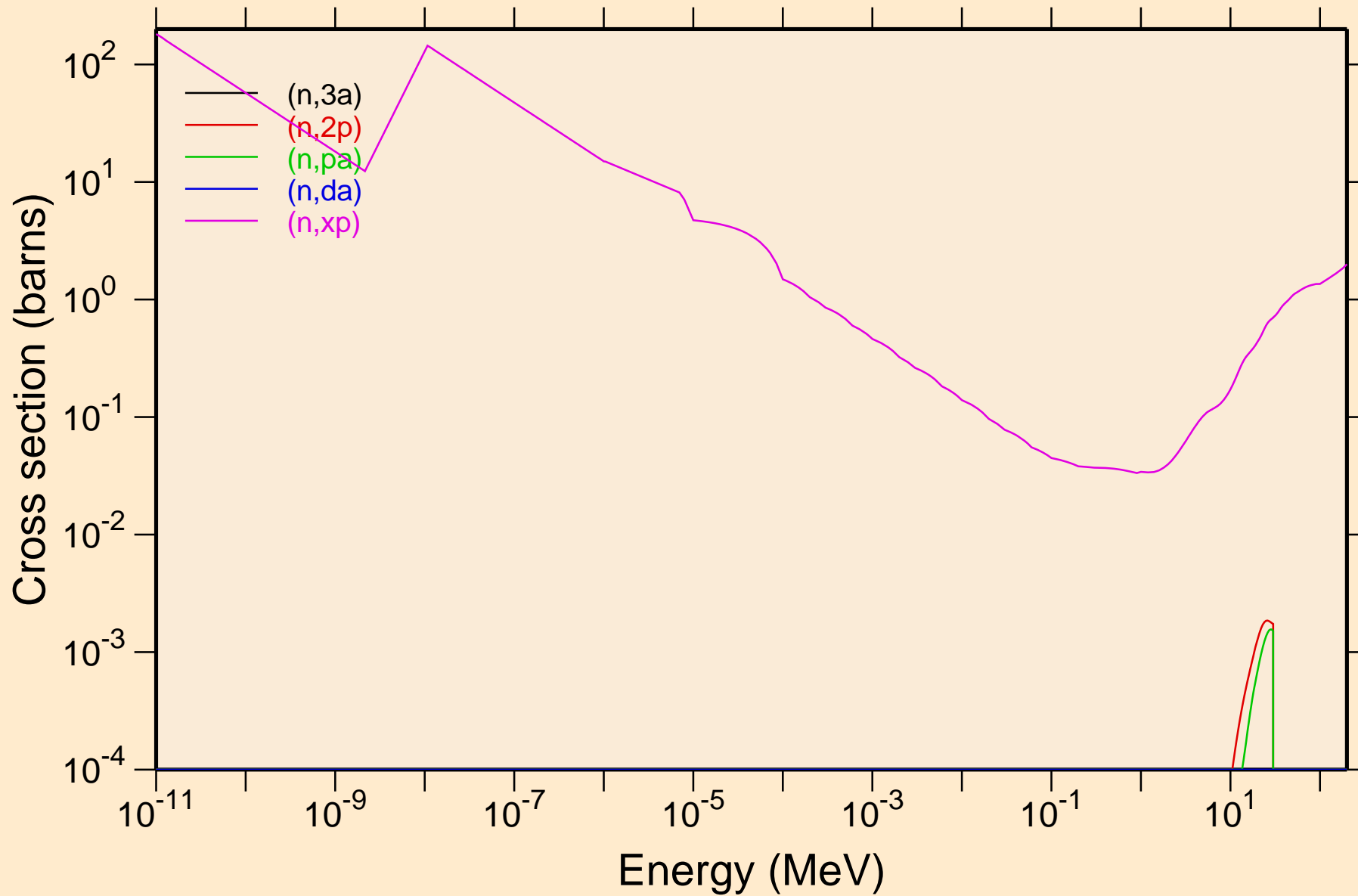
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



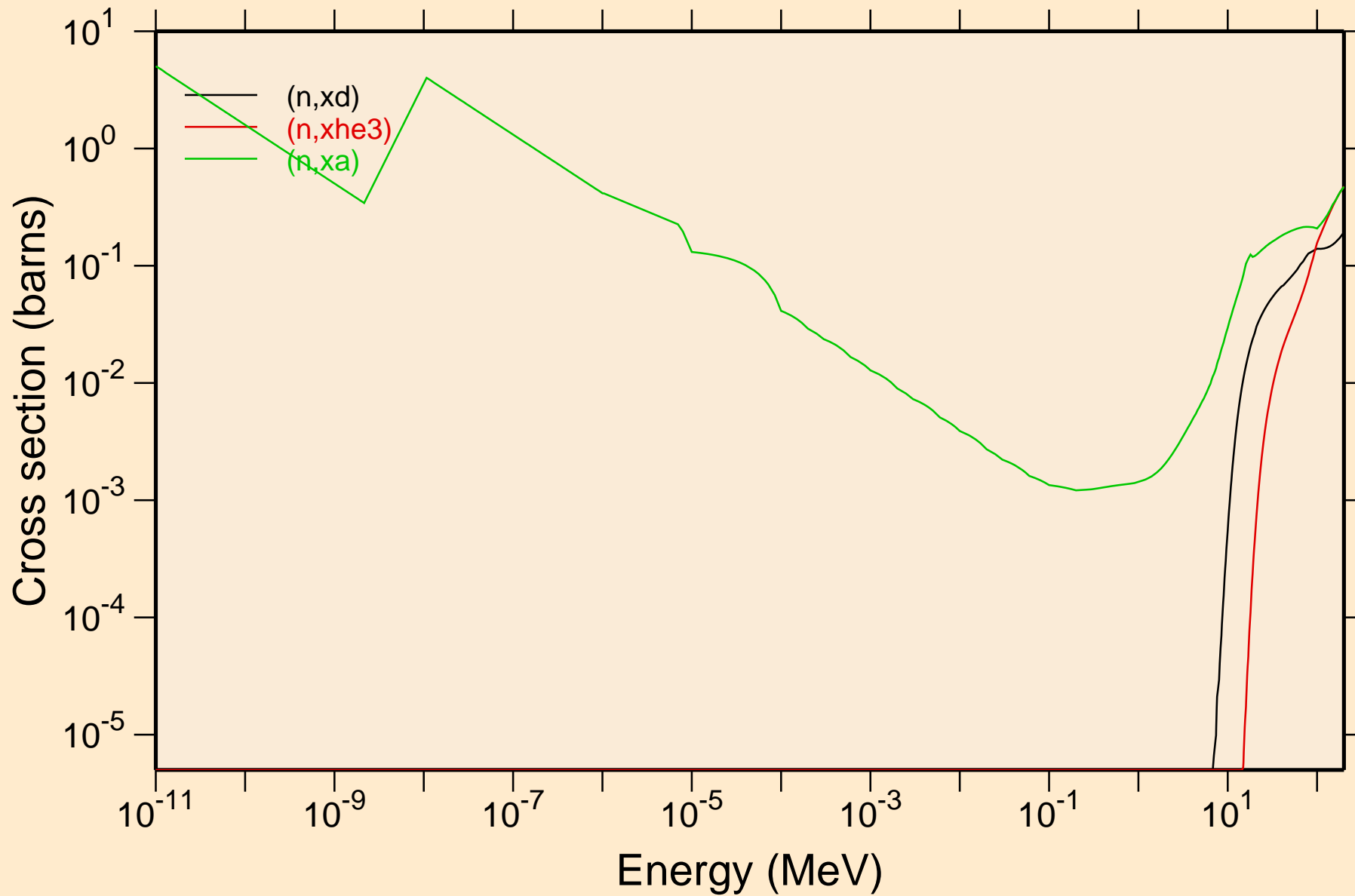
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions

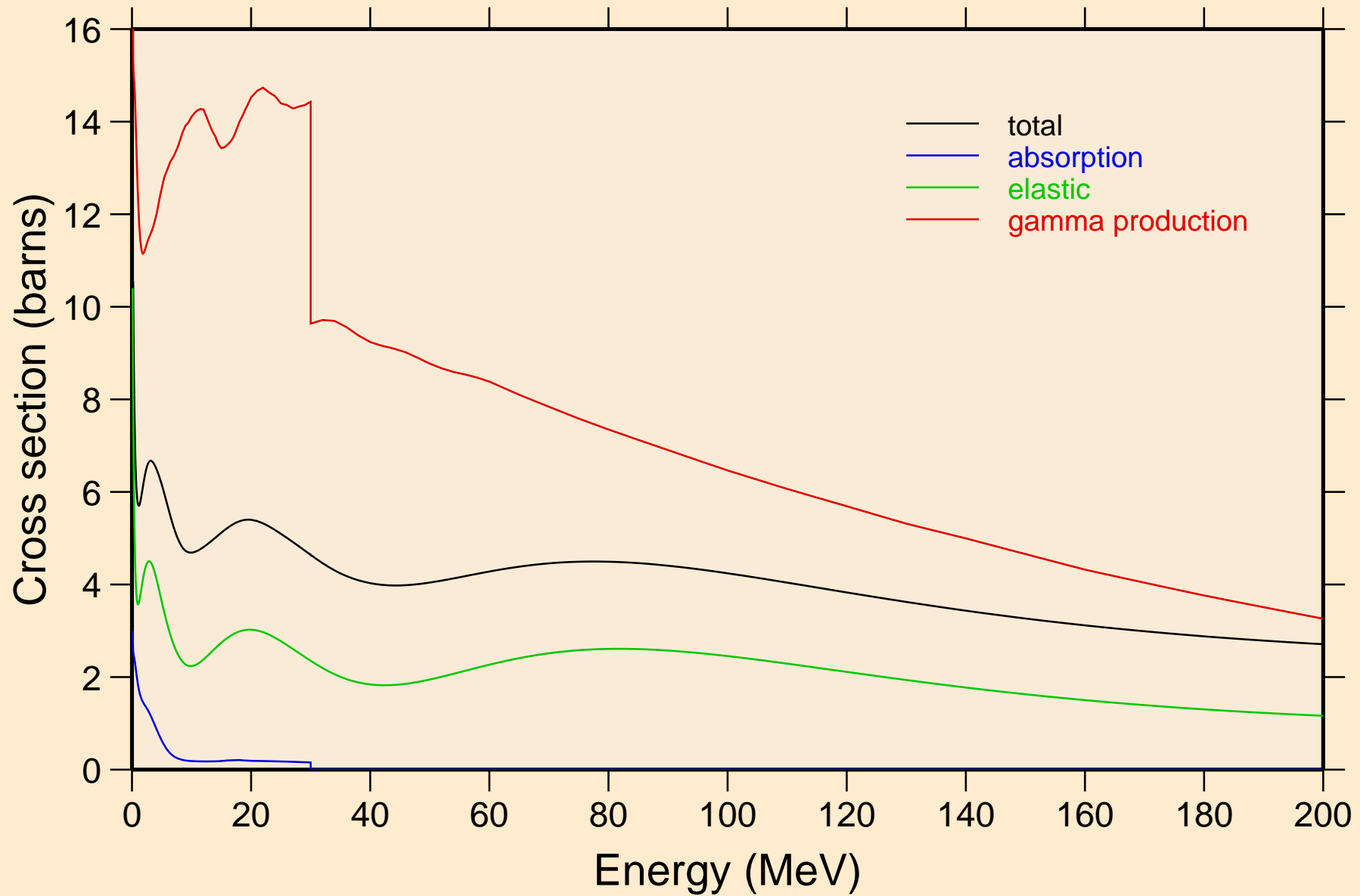


IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



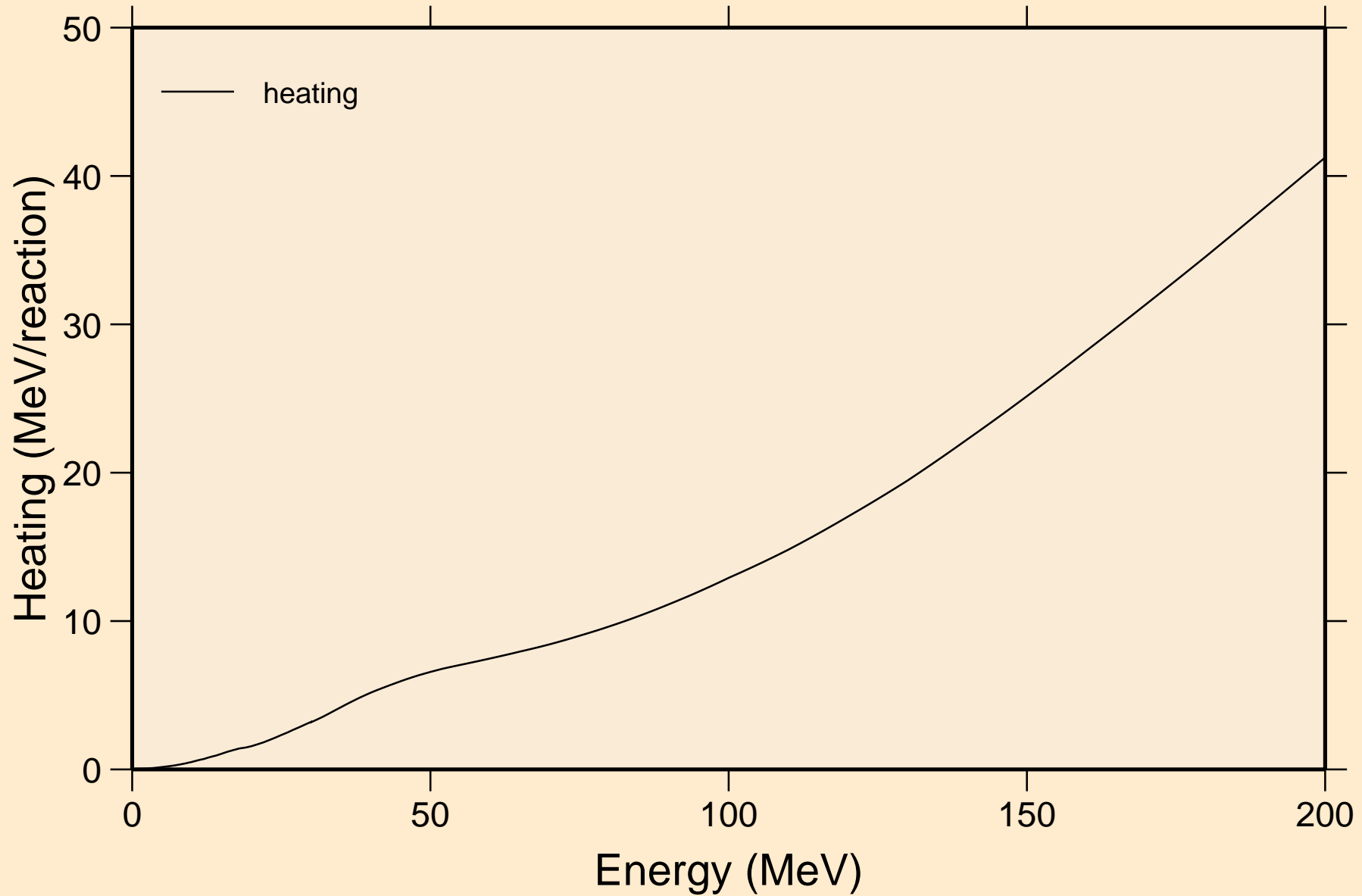
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Principal cross sections



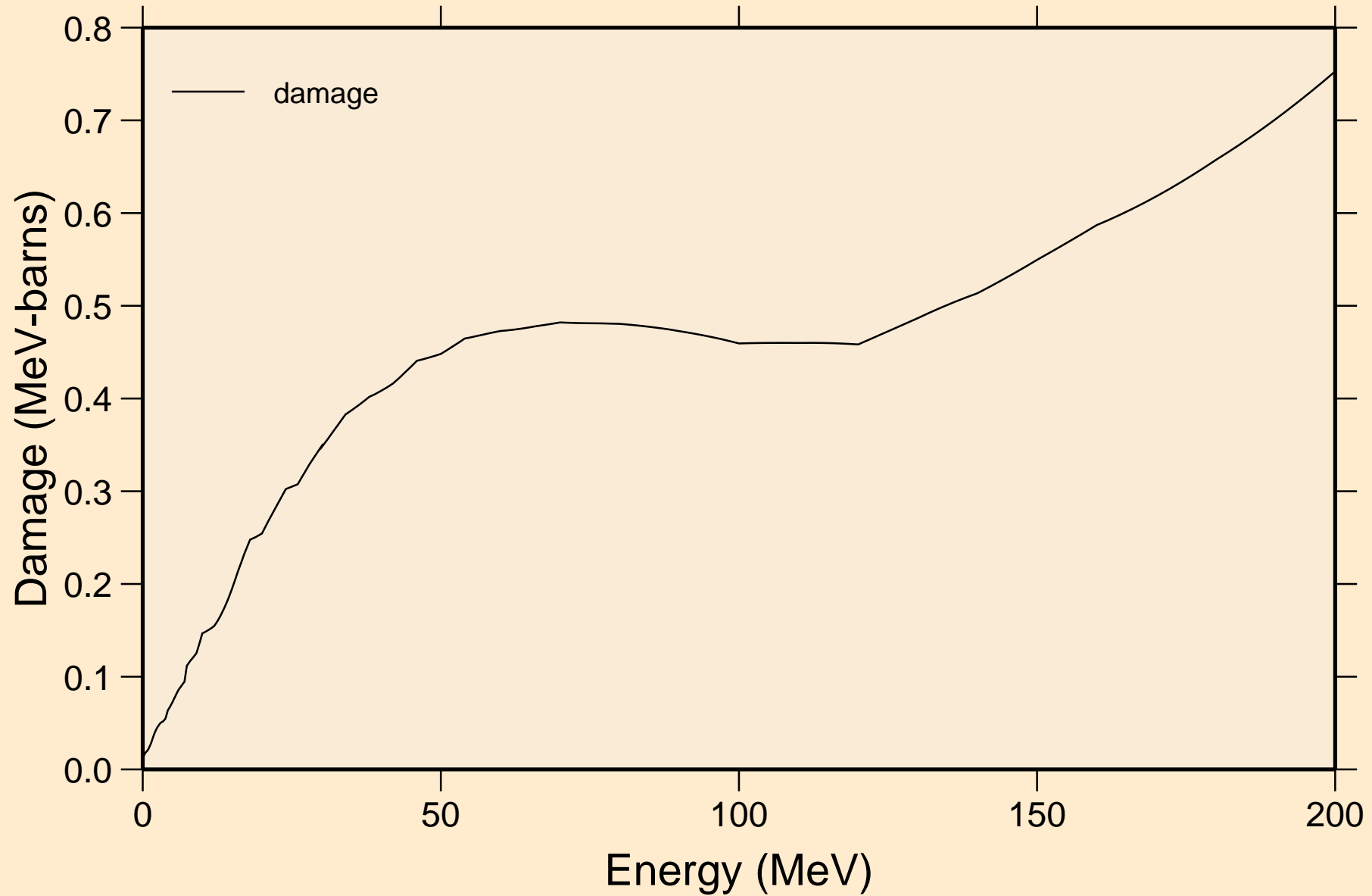
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Heating

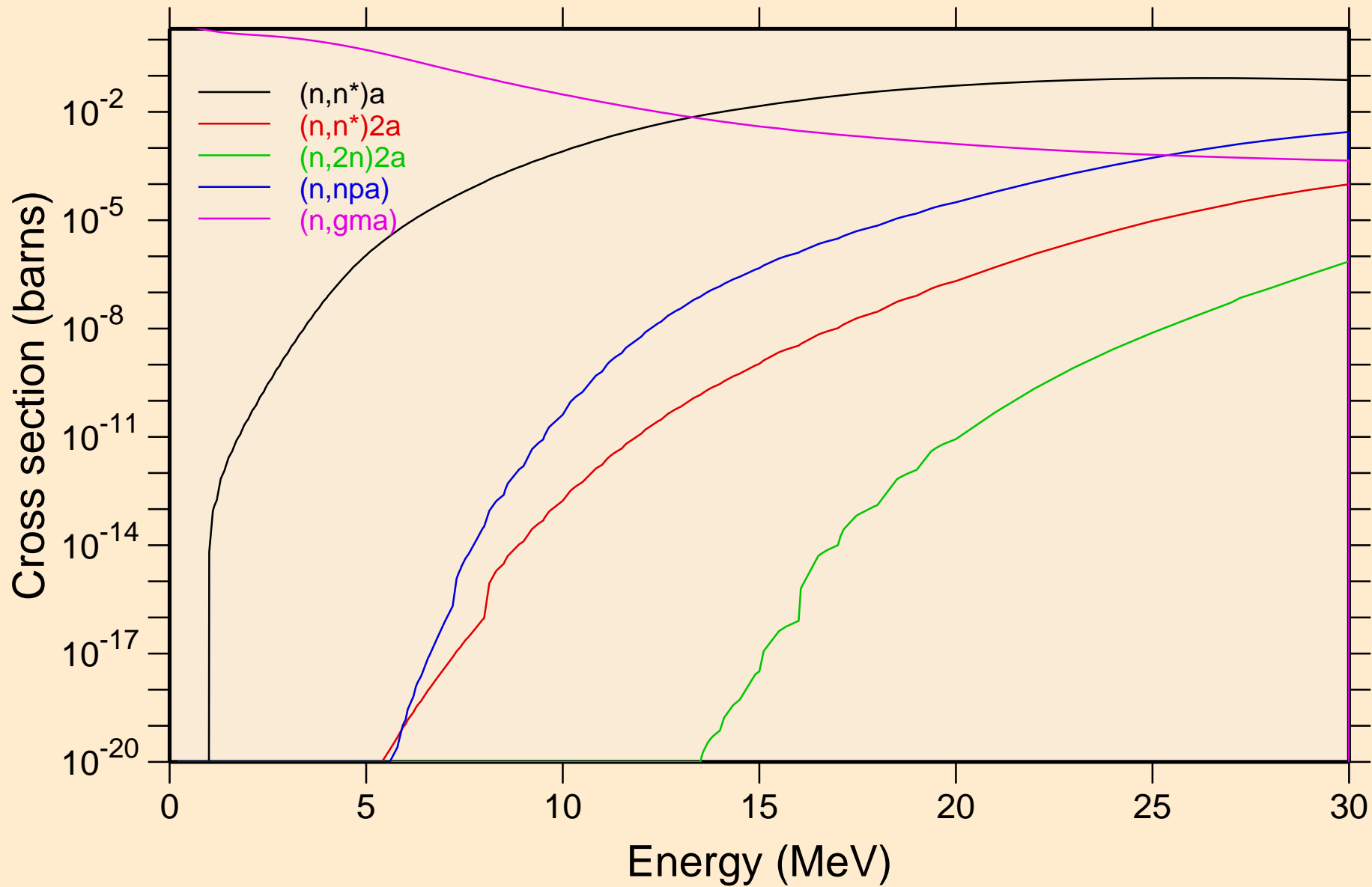


IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

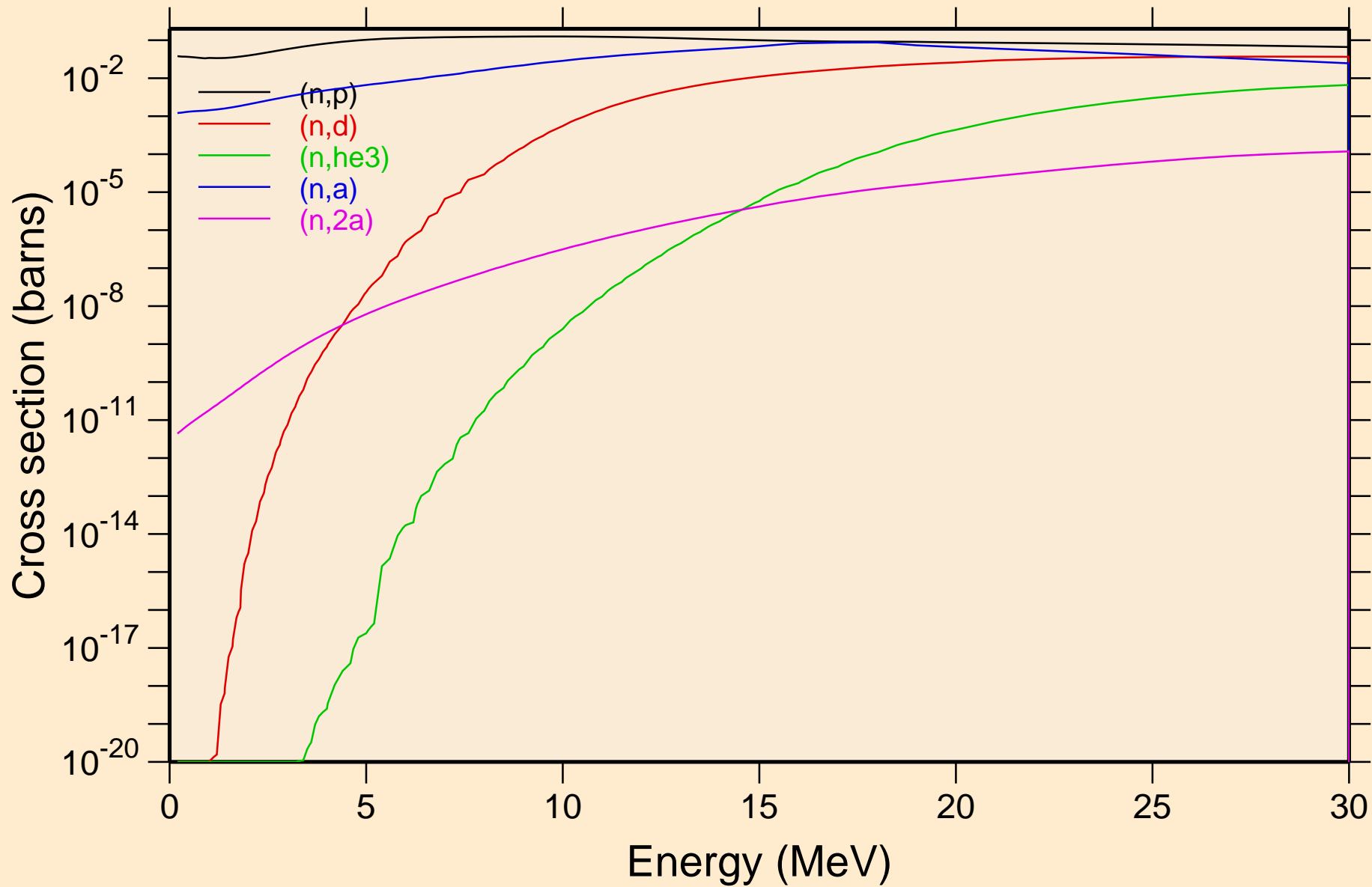
Damage



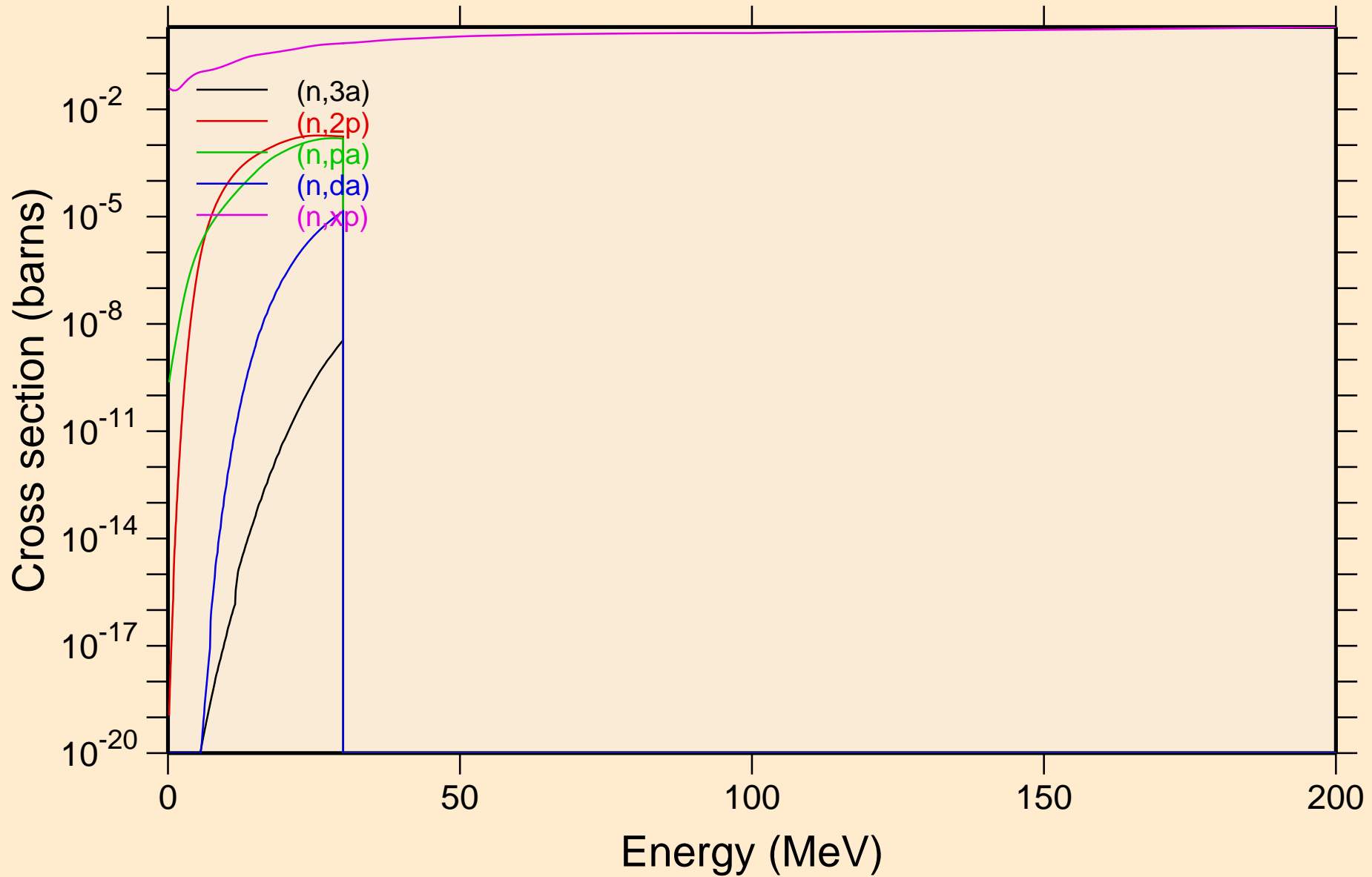
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



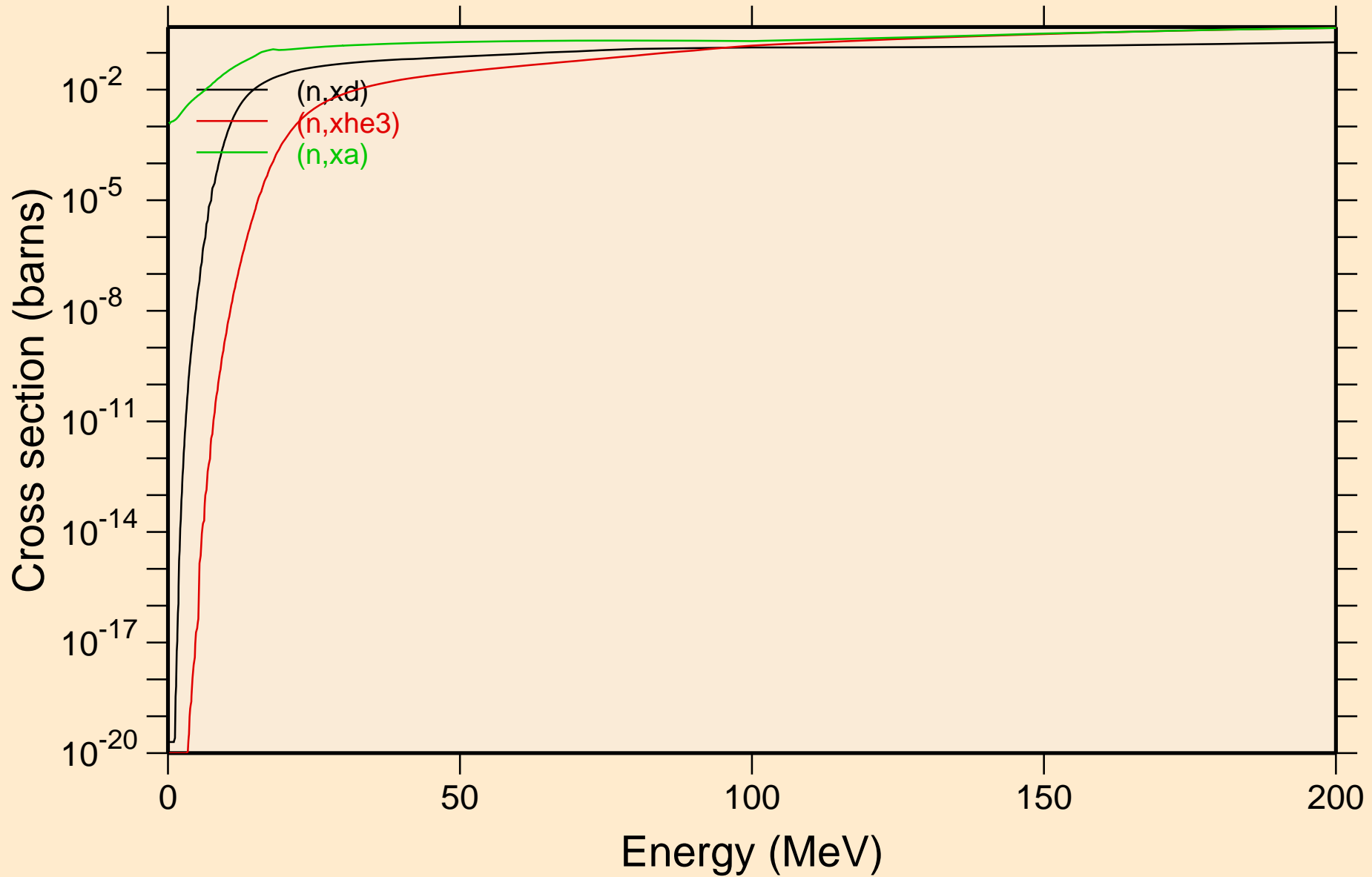
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



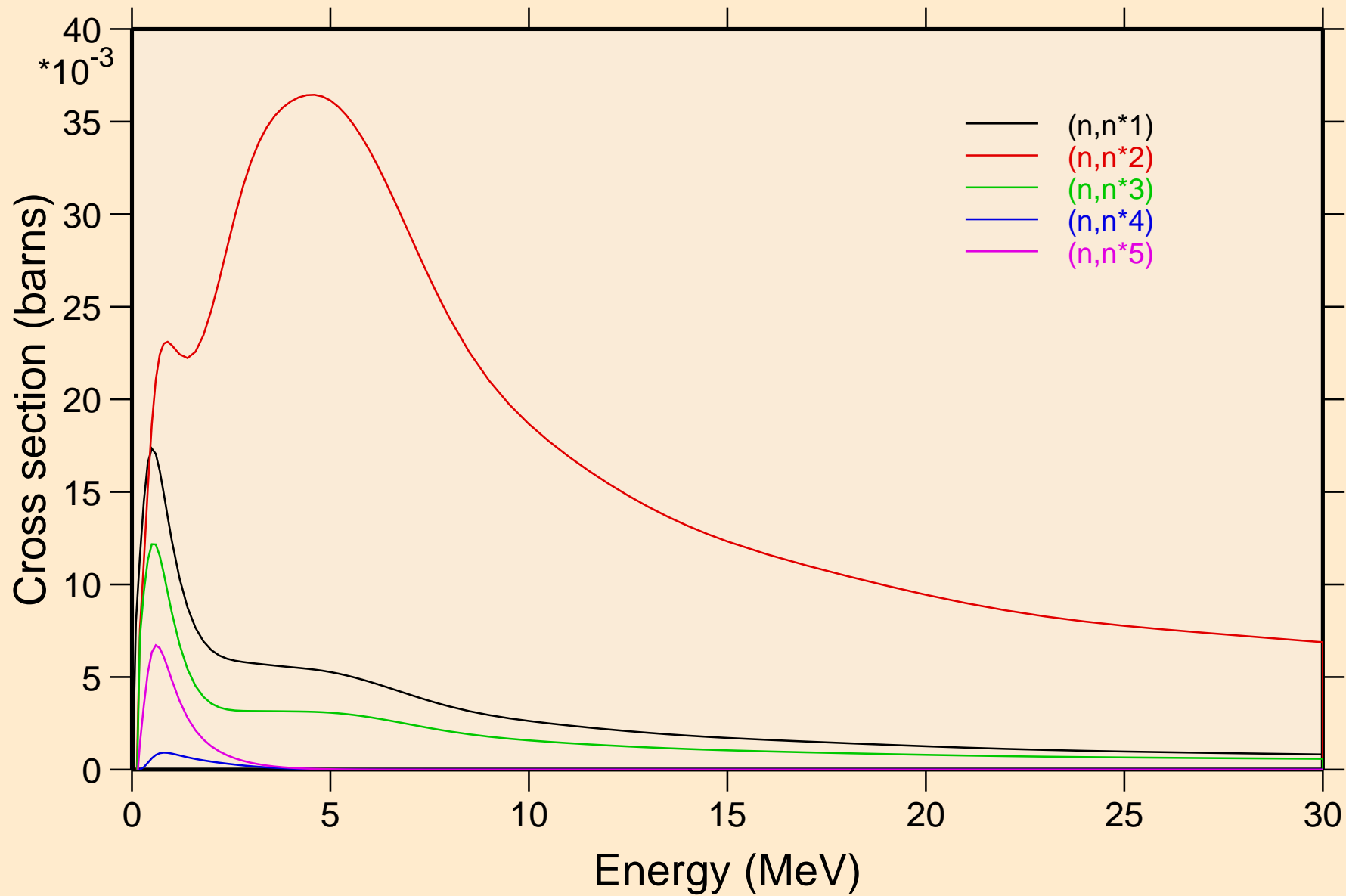
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



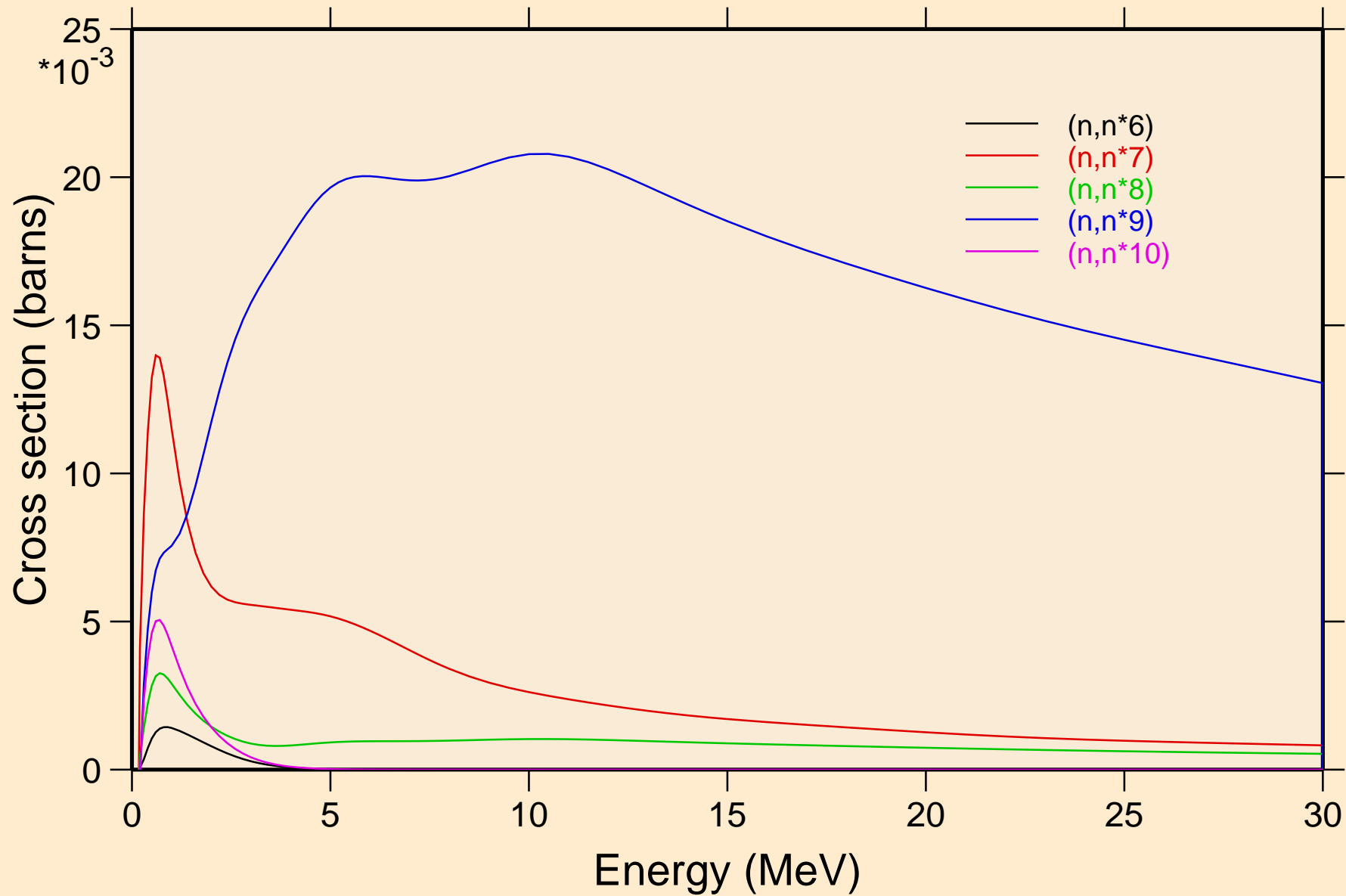
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



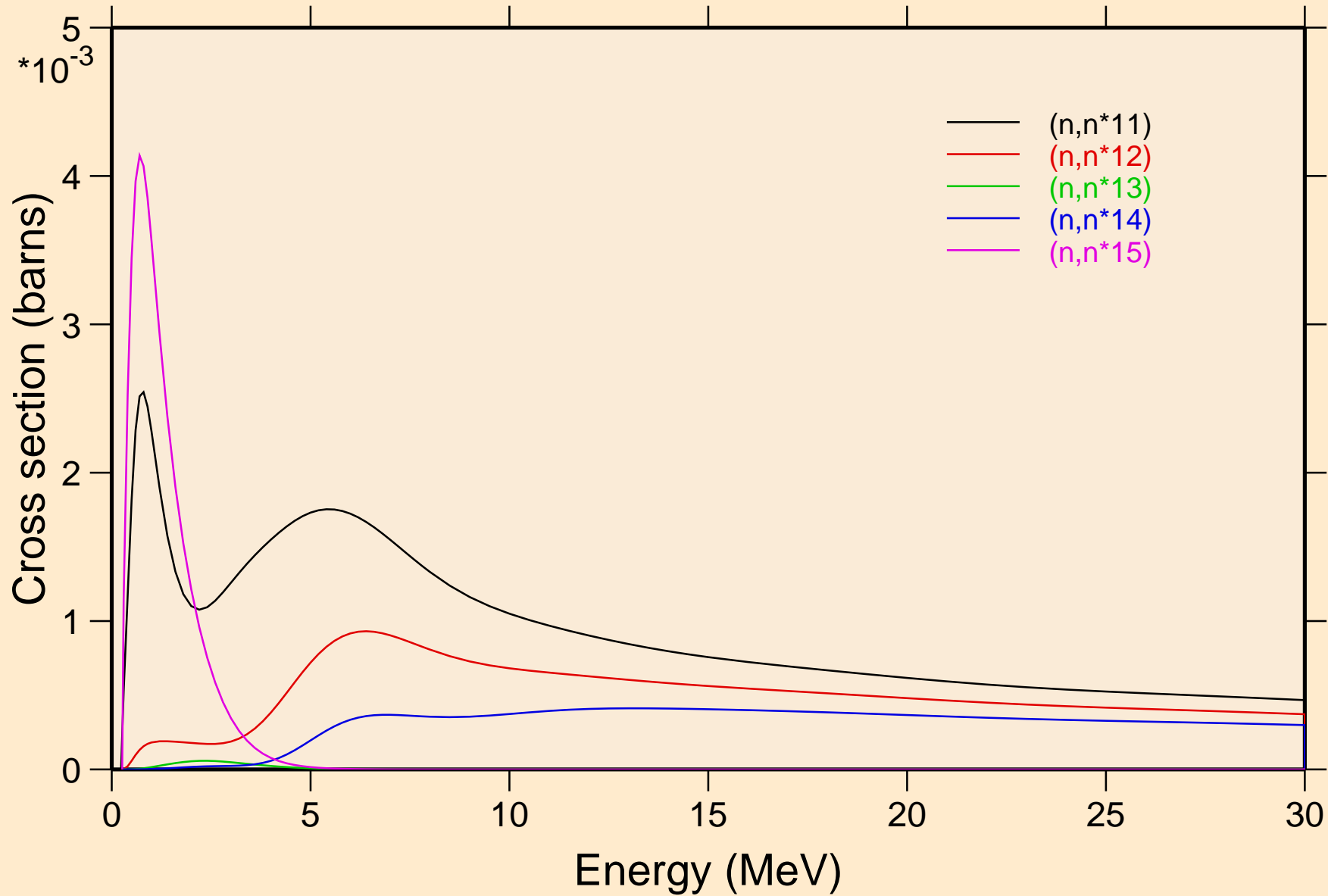
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels



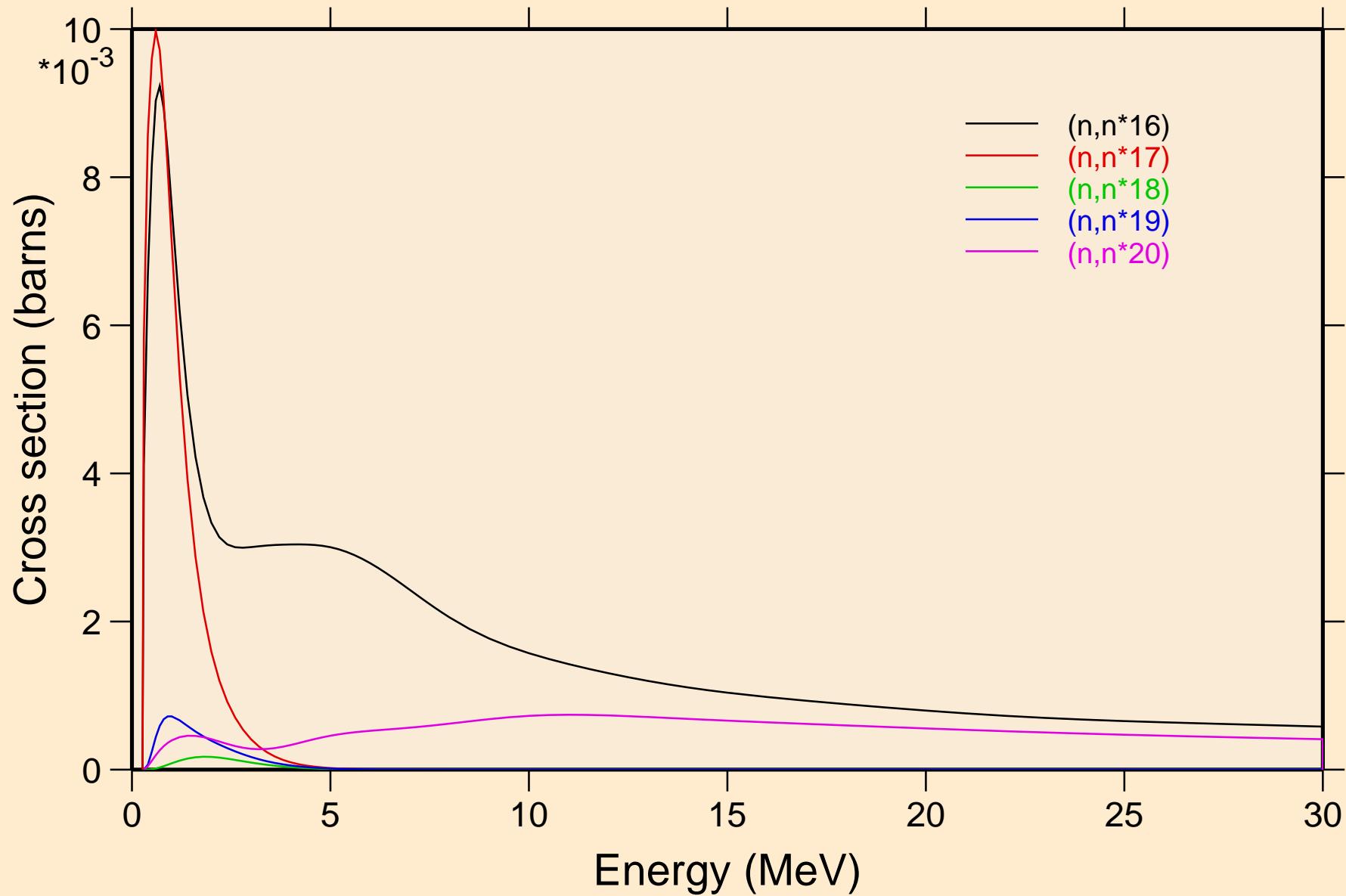
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels



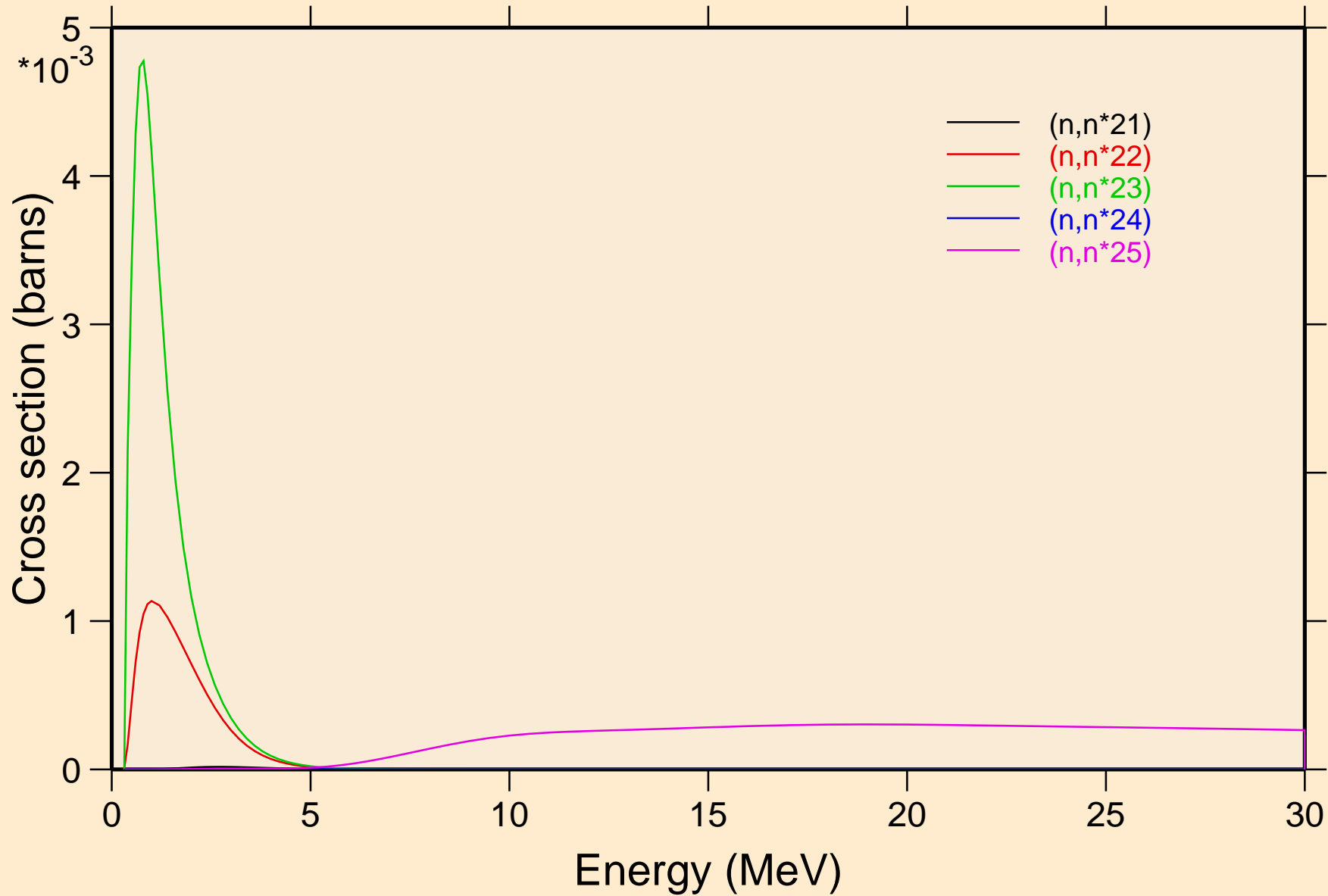
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels



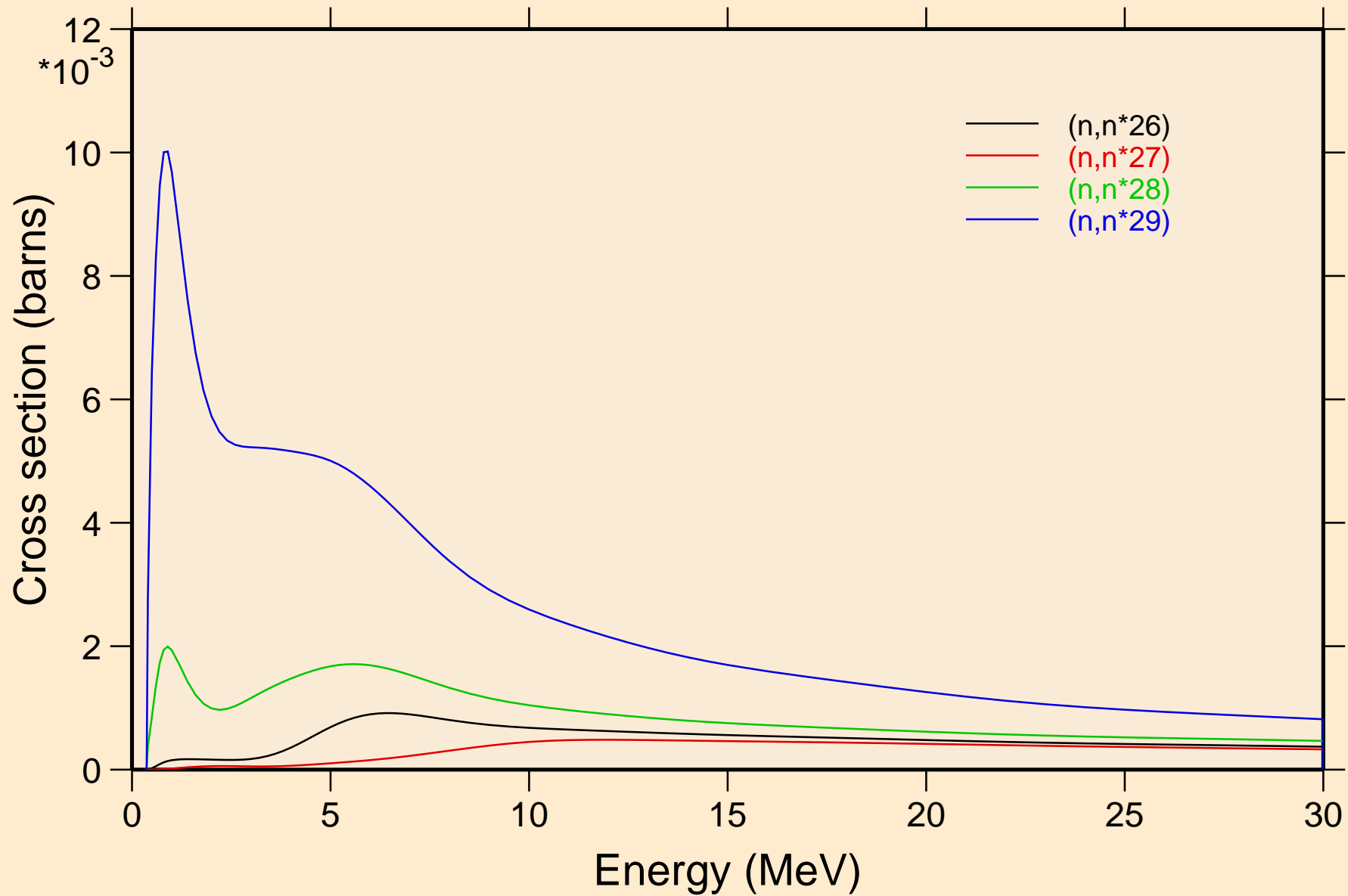
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels



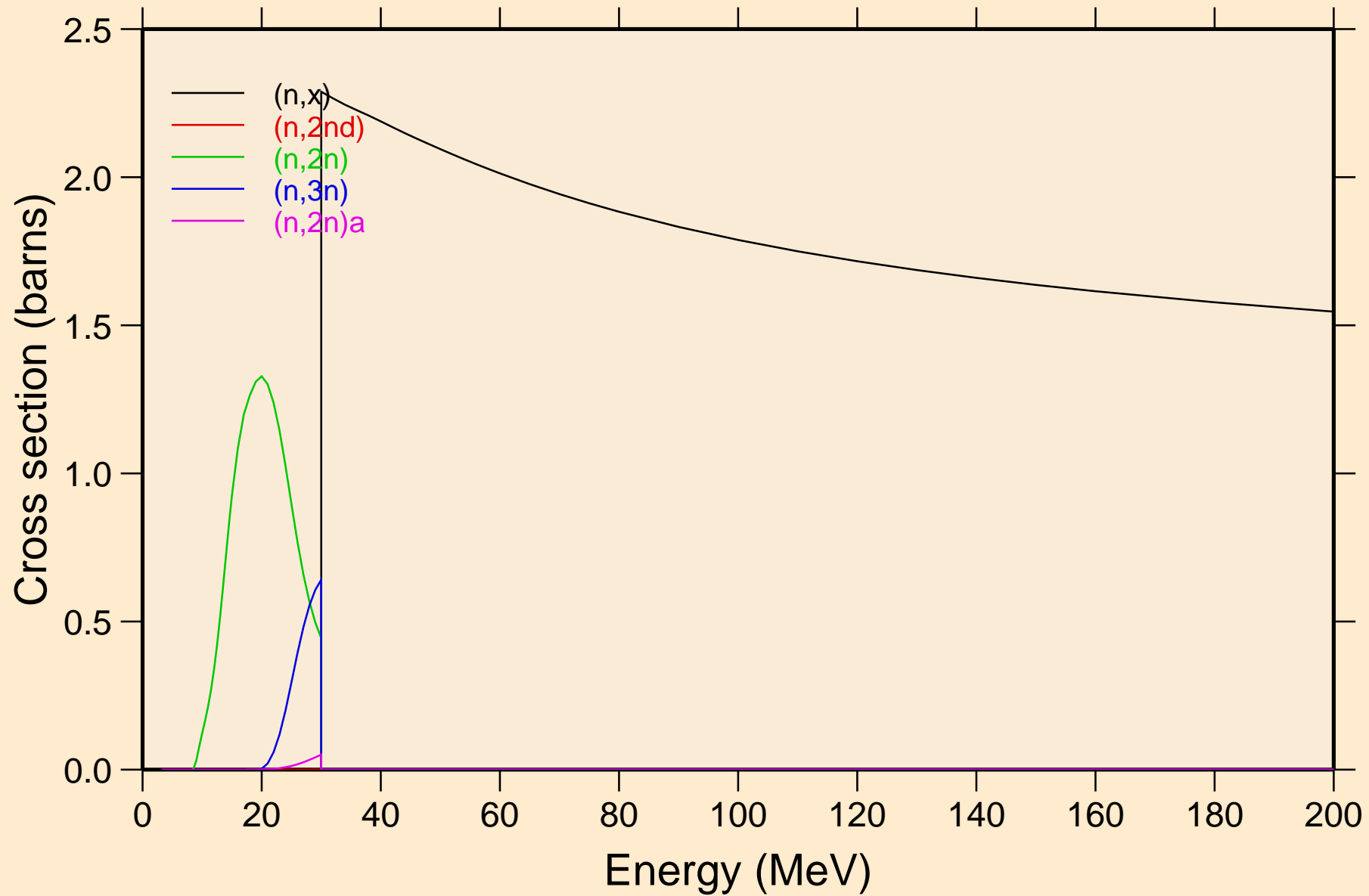
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels



IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Inelastic levels

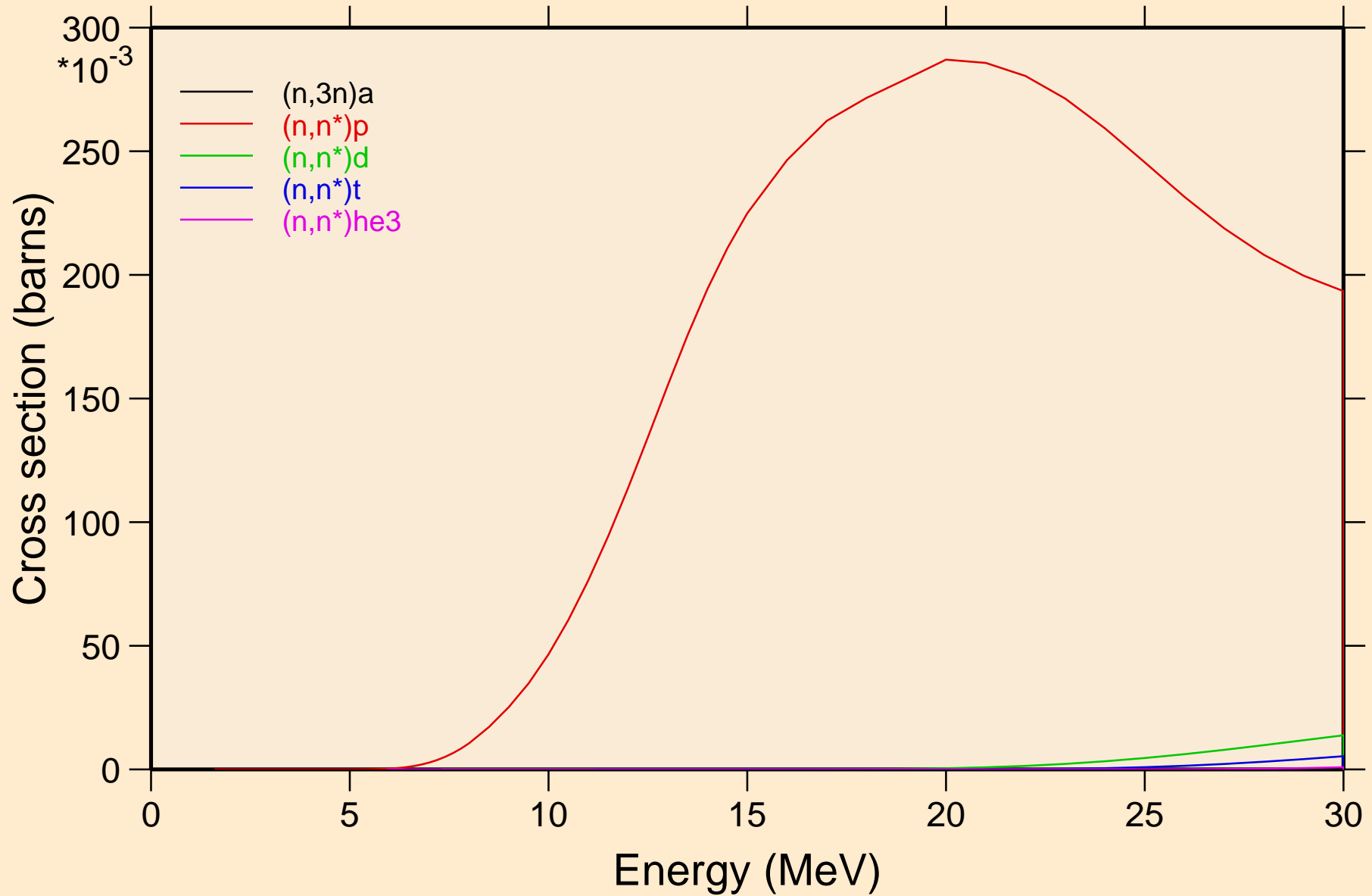


IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

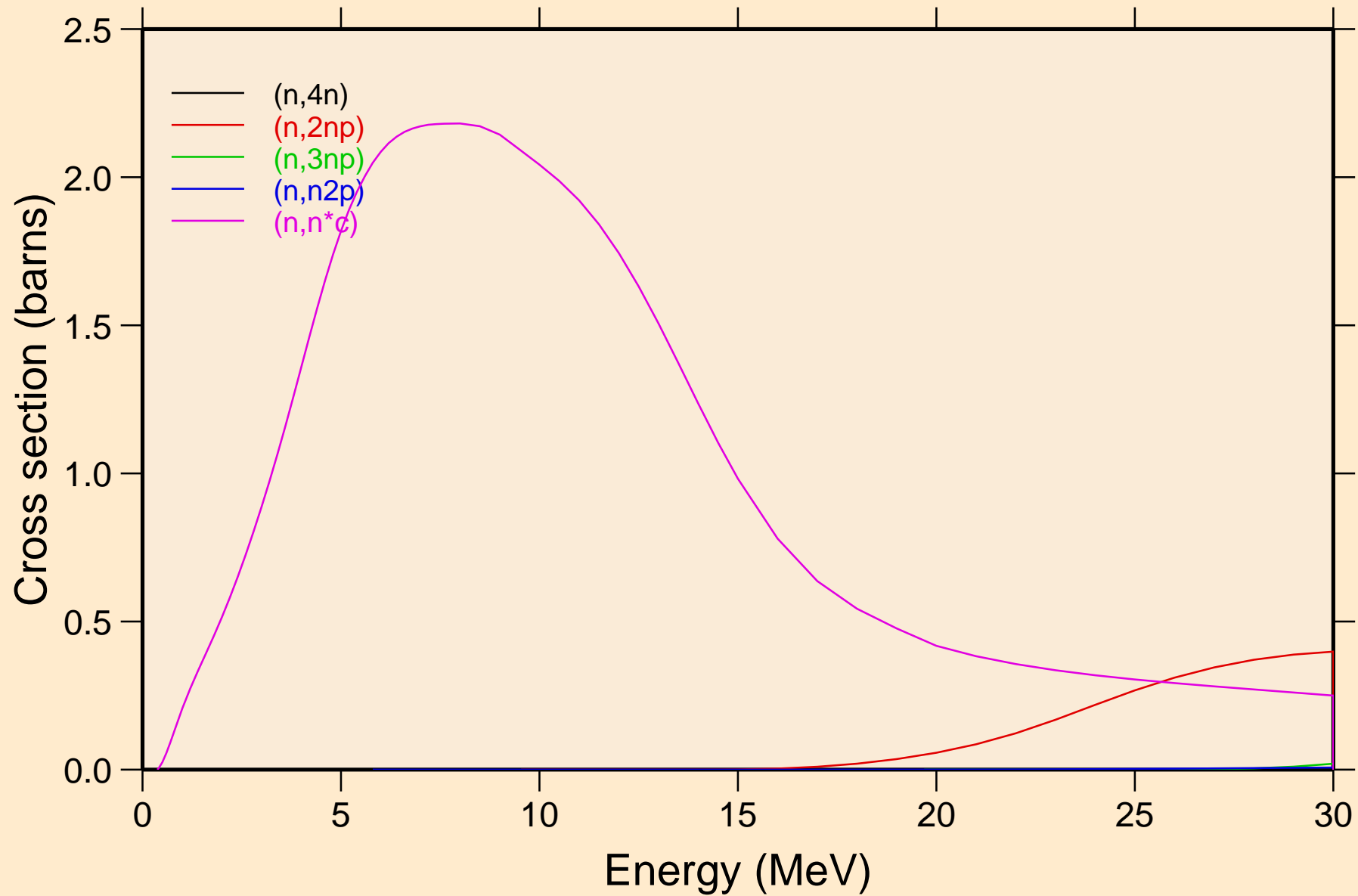


IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

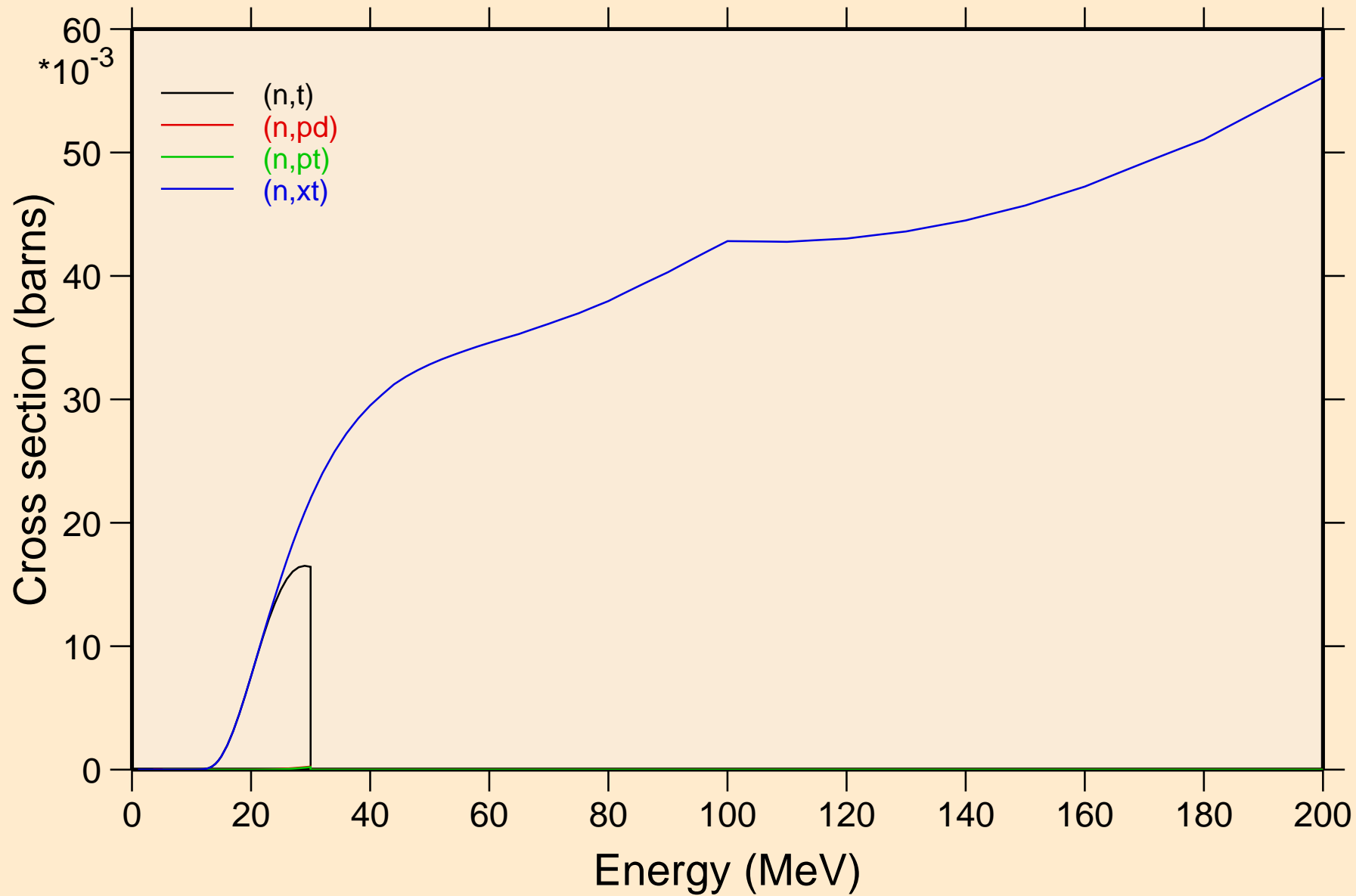
Threshold reactions



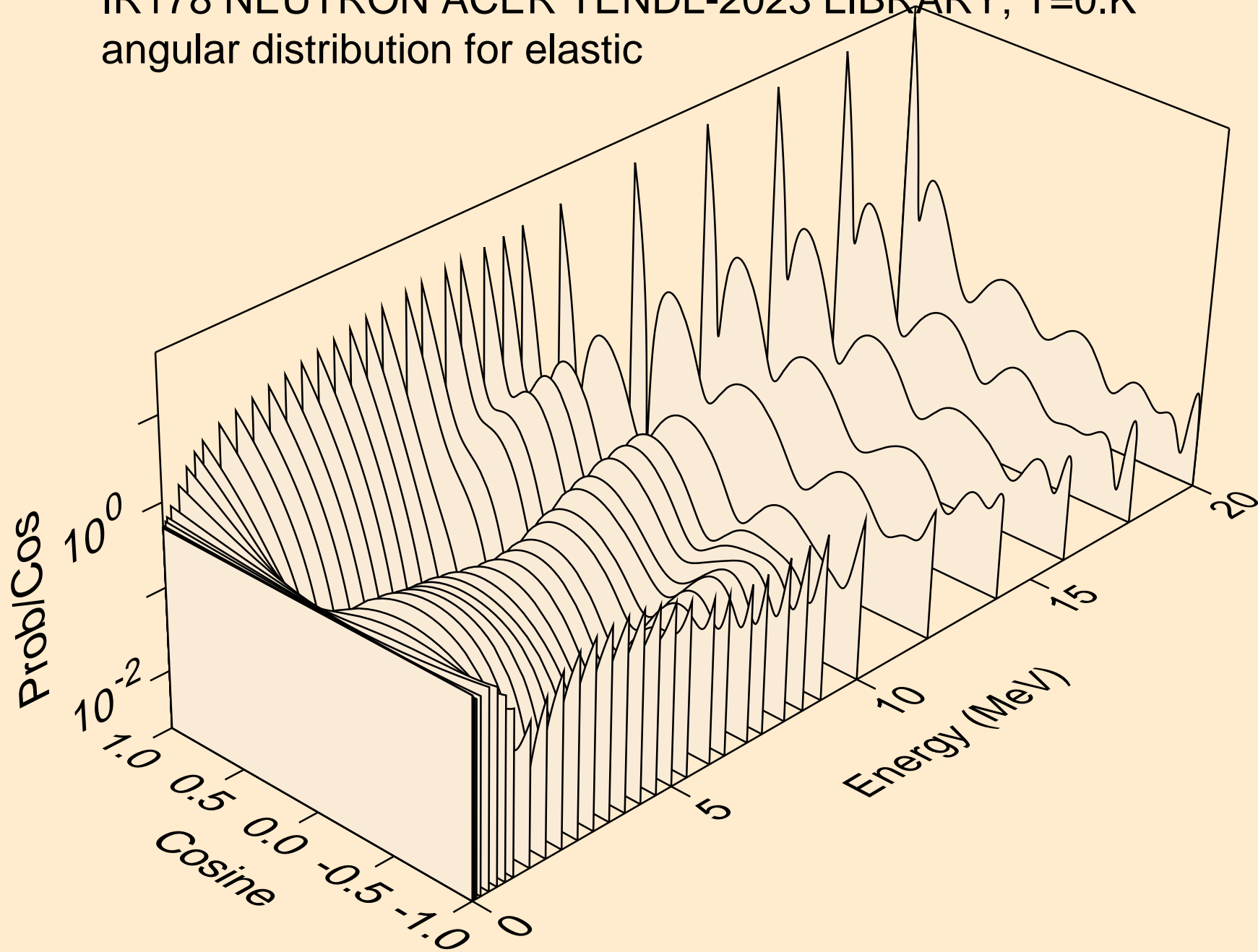
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions



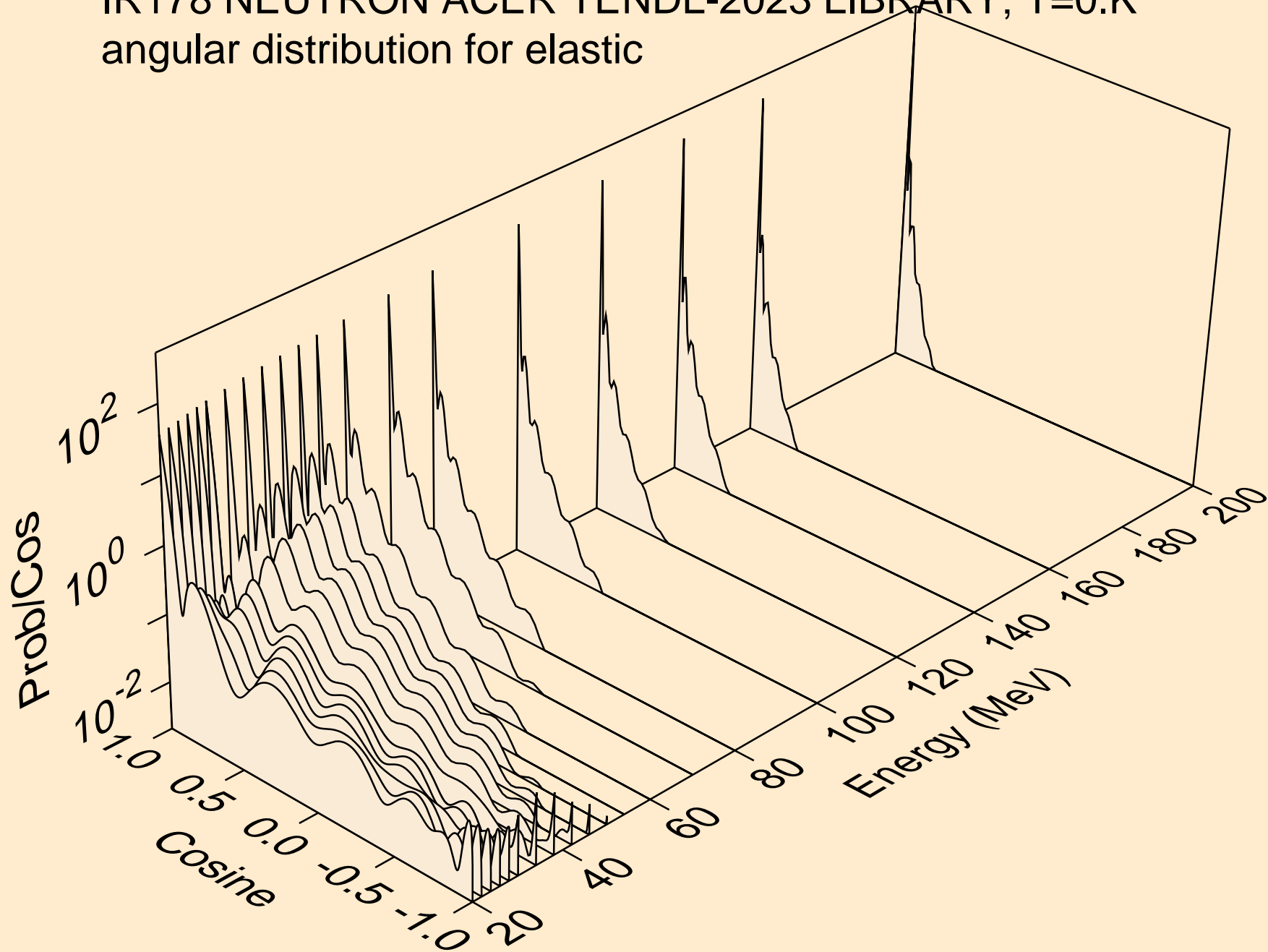
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions



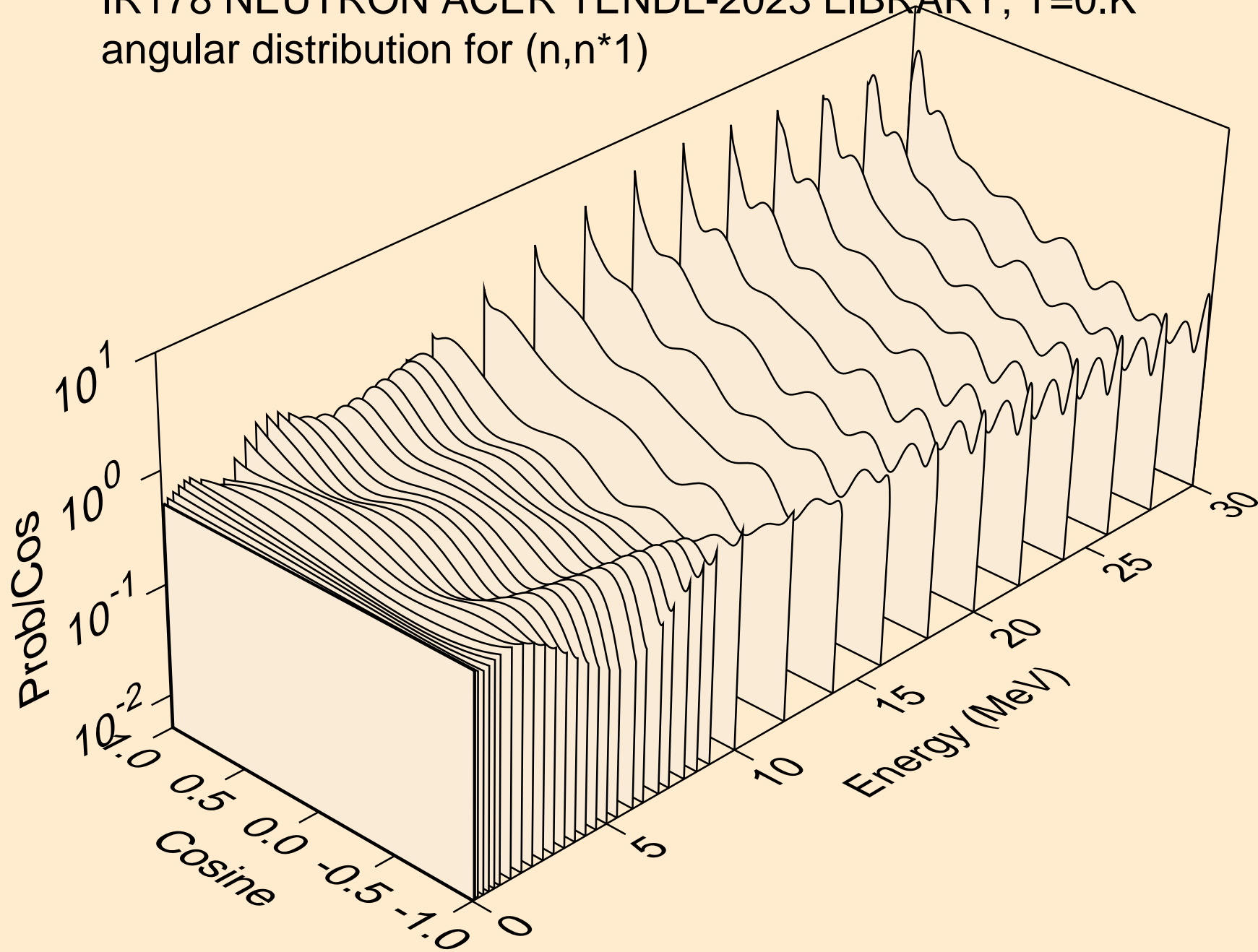
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic



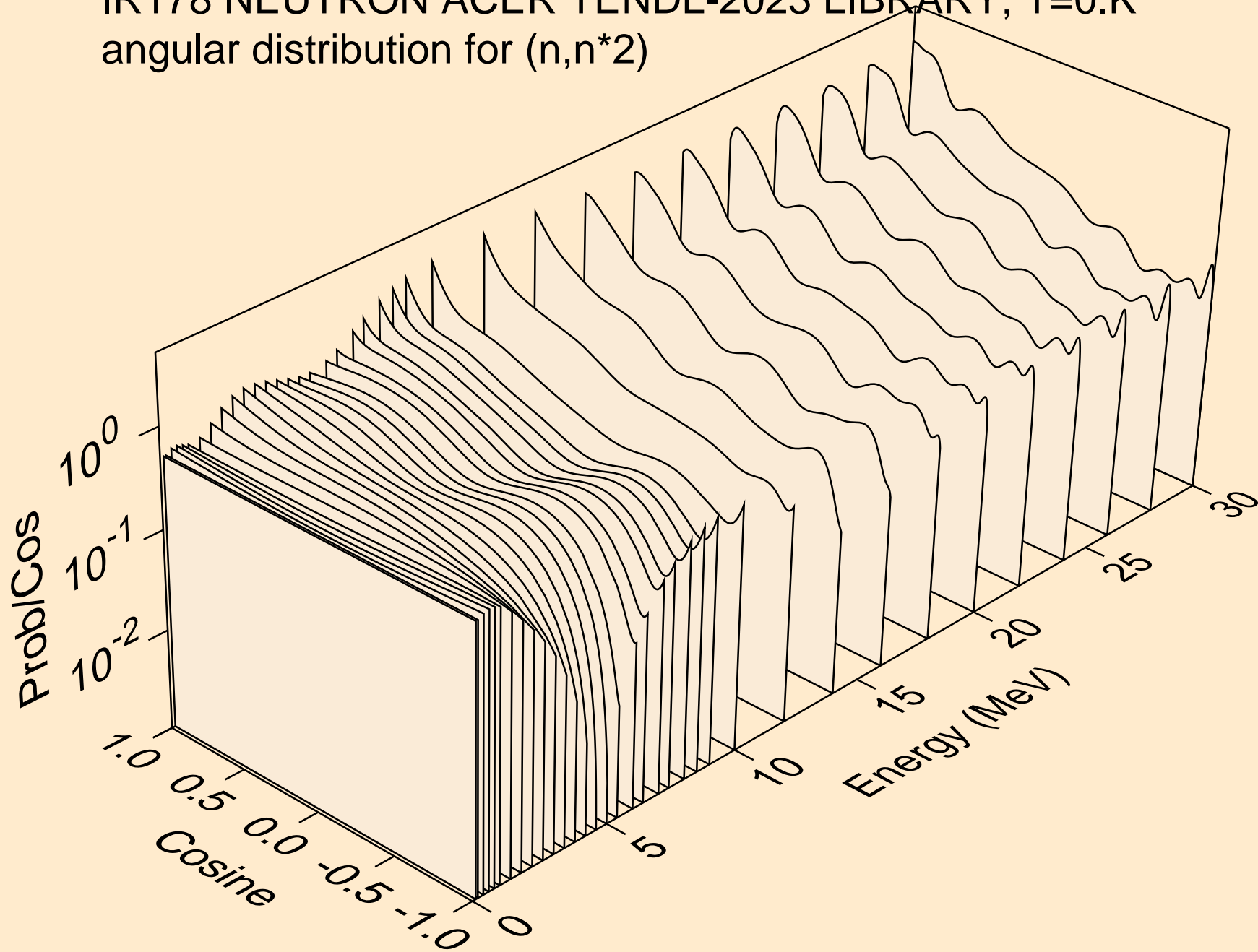
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic



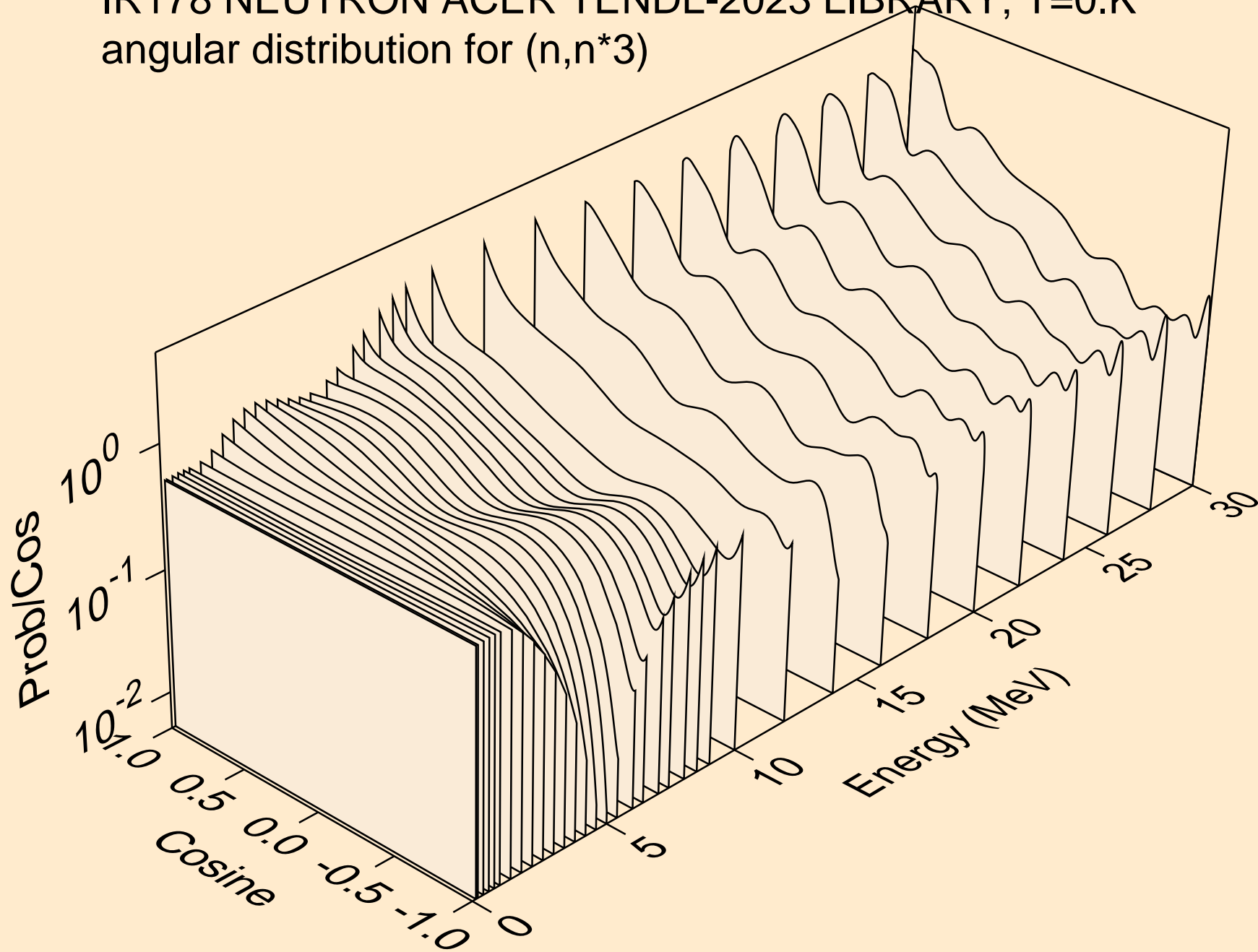
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*1)



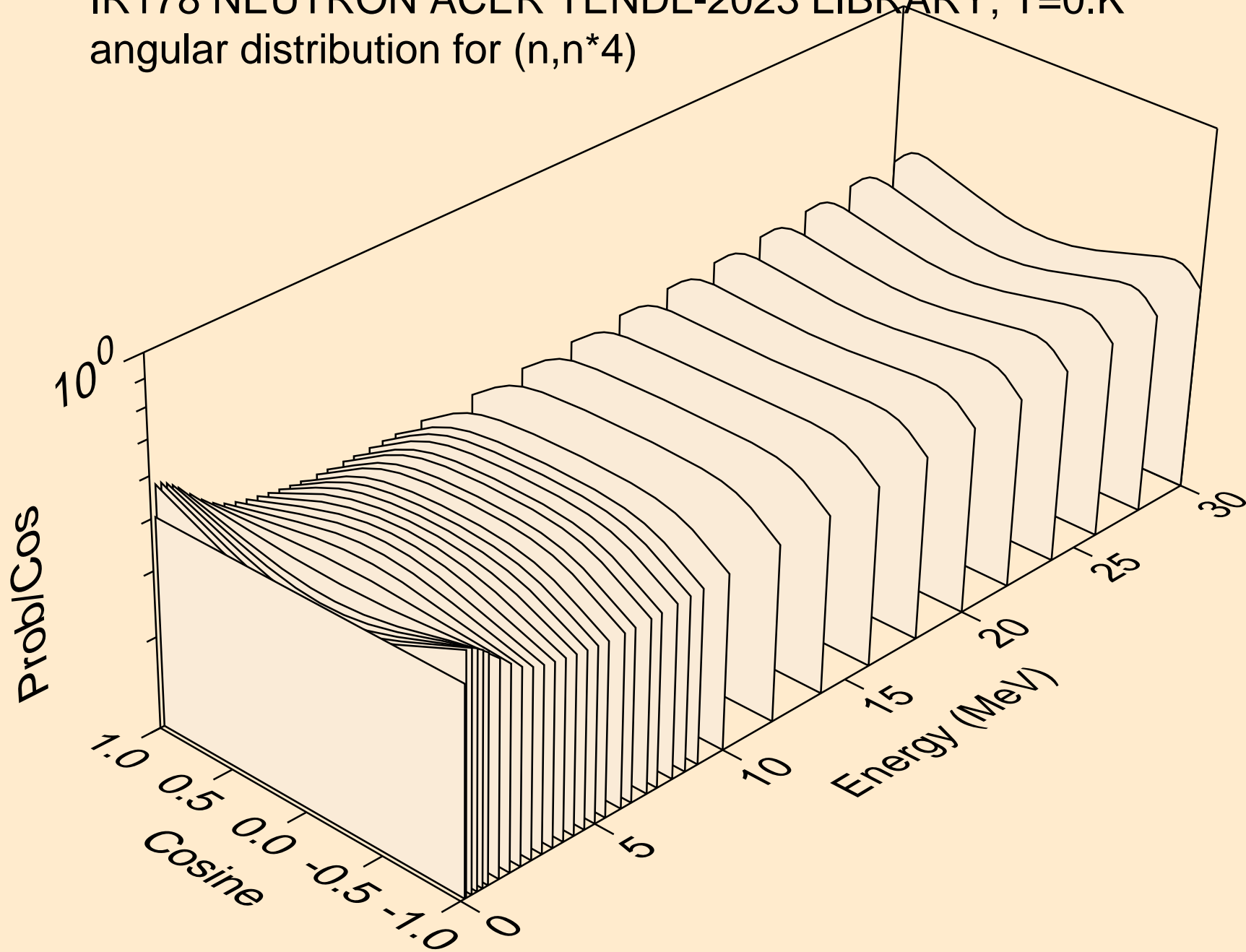
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*2)



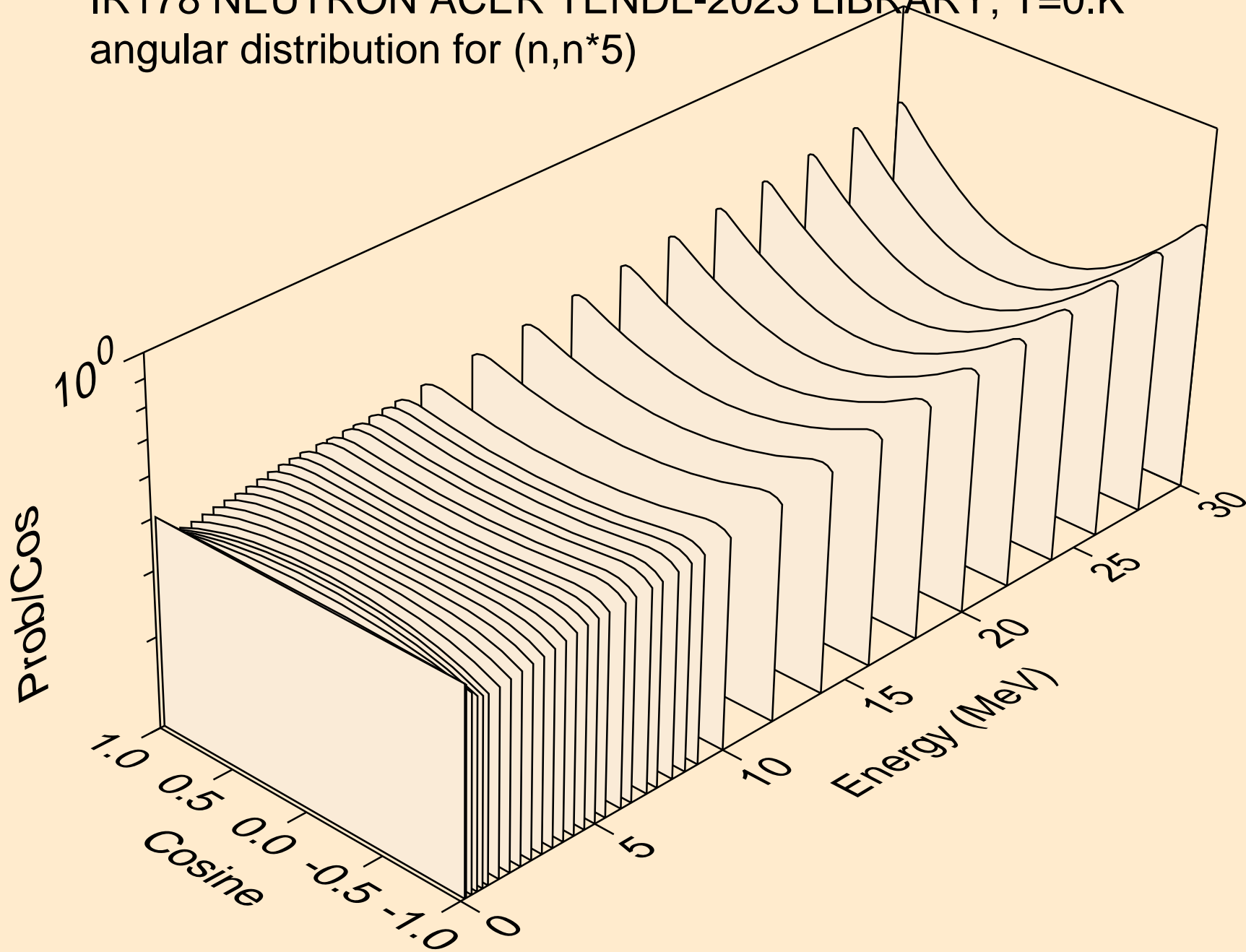
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*3)



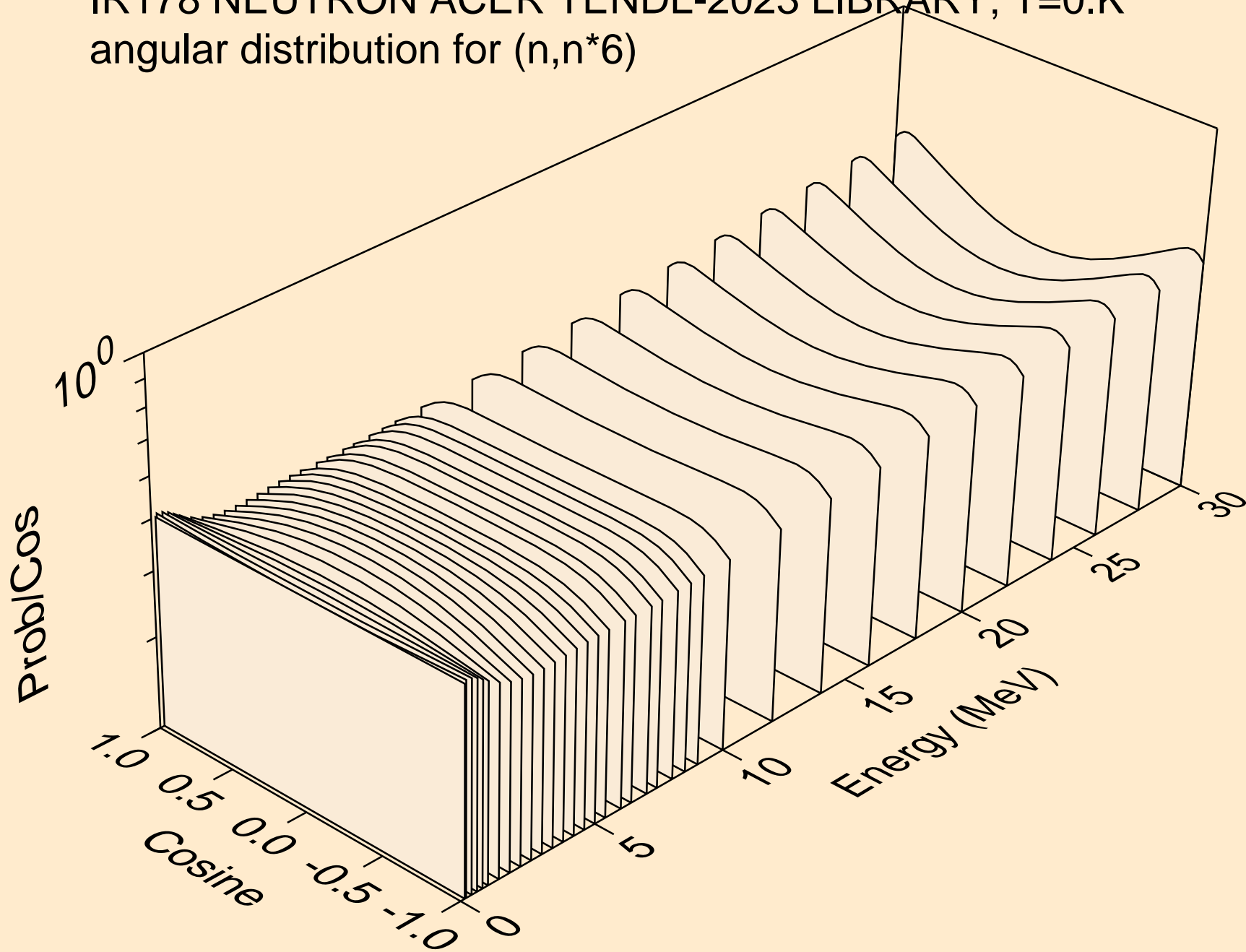
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*4)



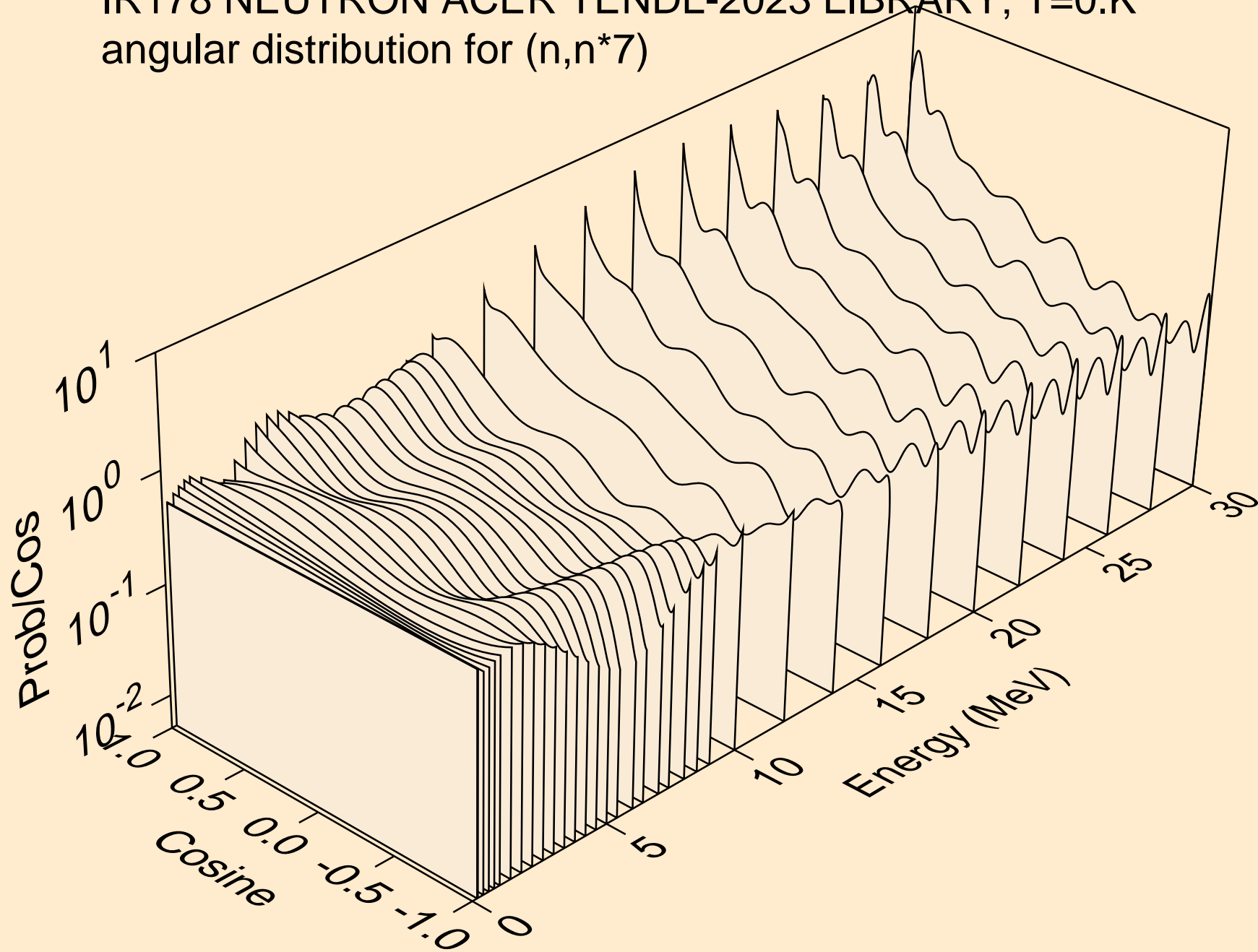
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*5)



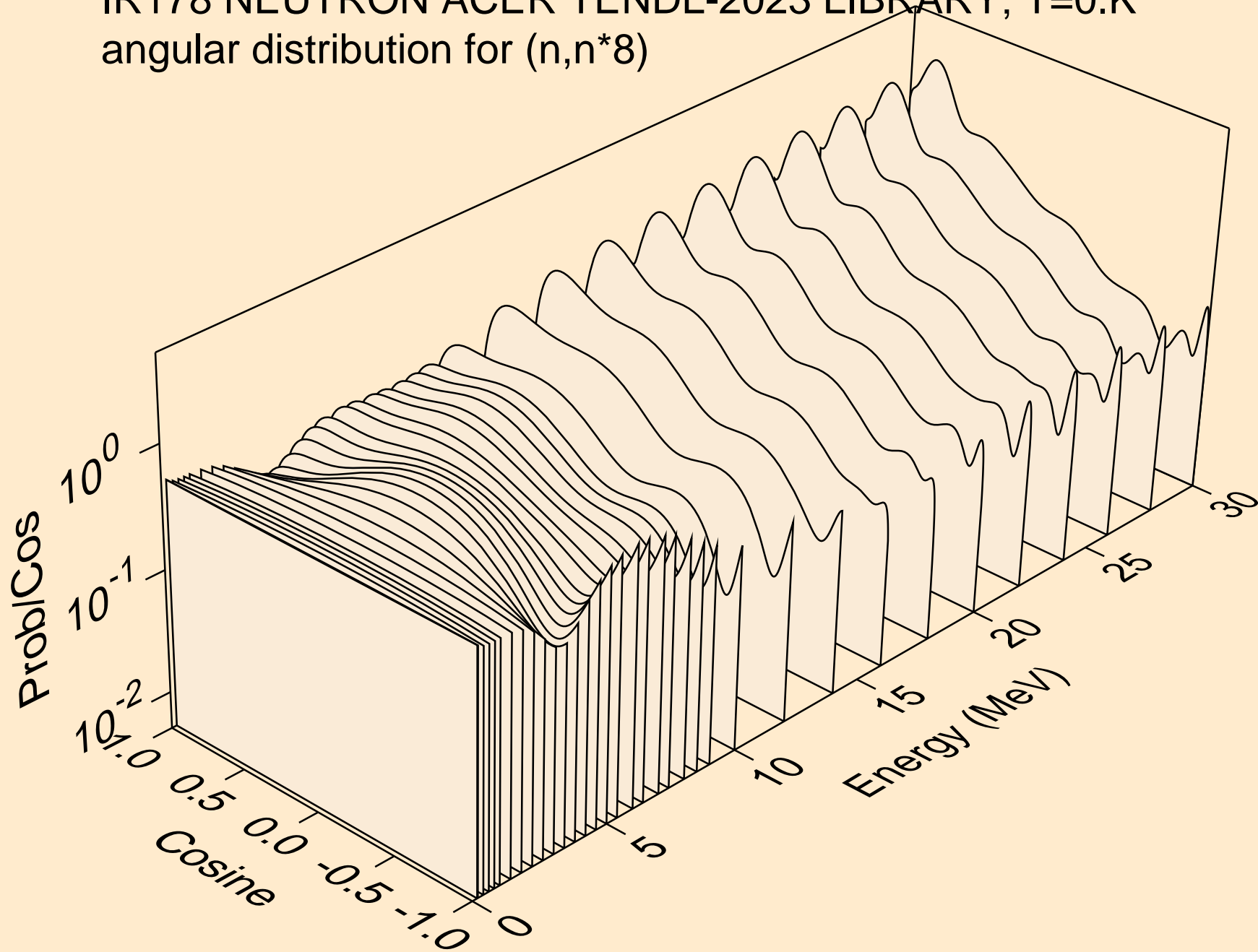
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*6)



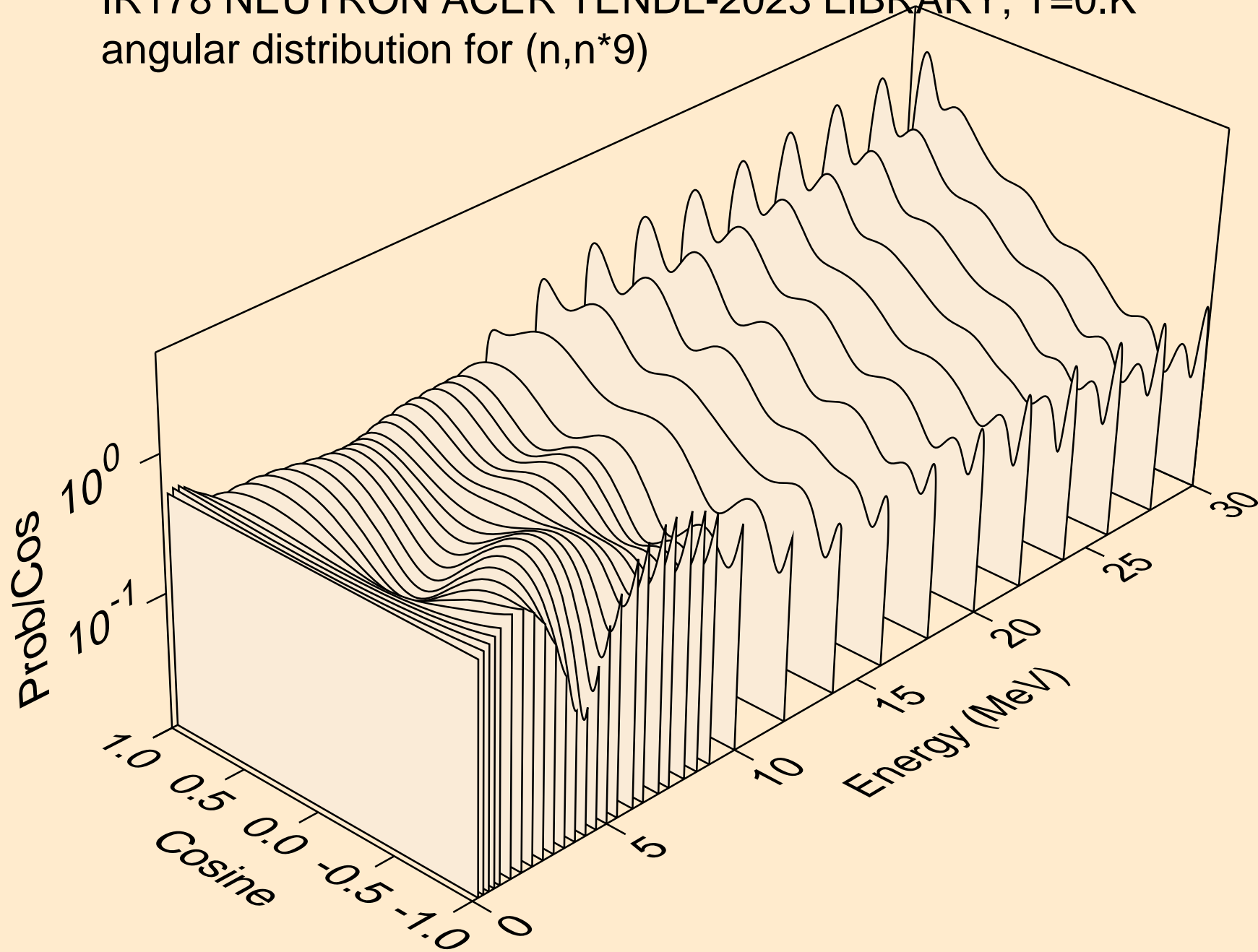
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*7)



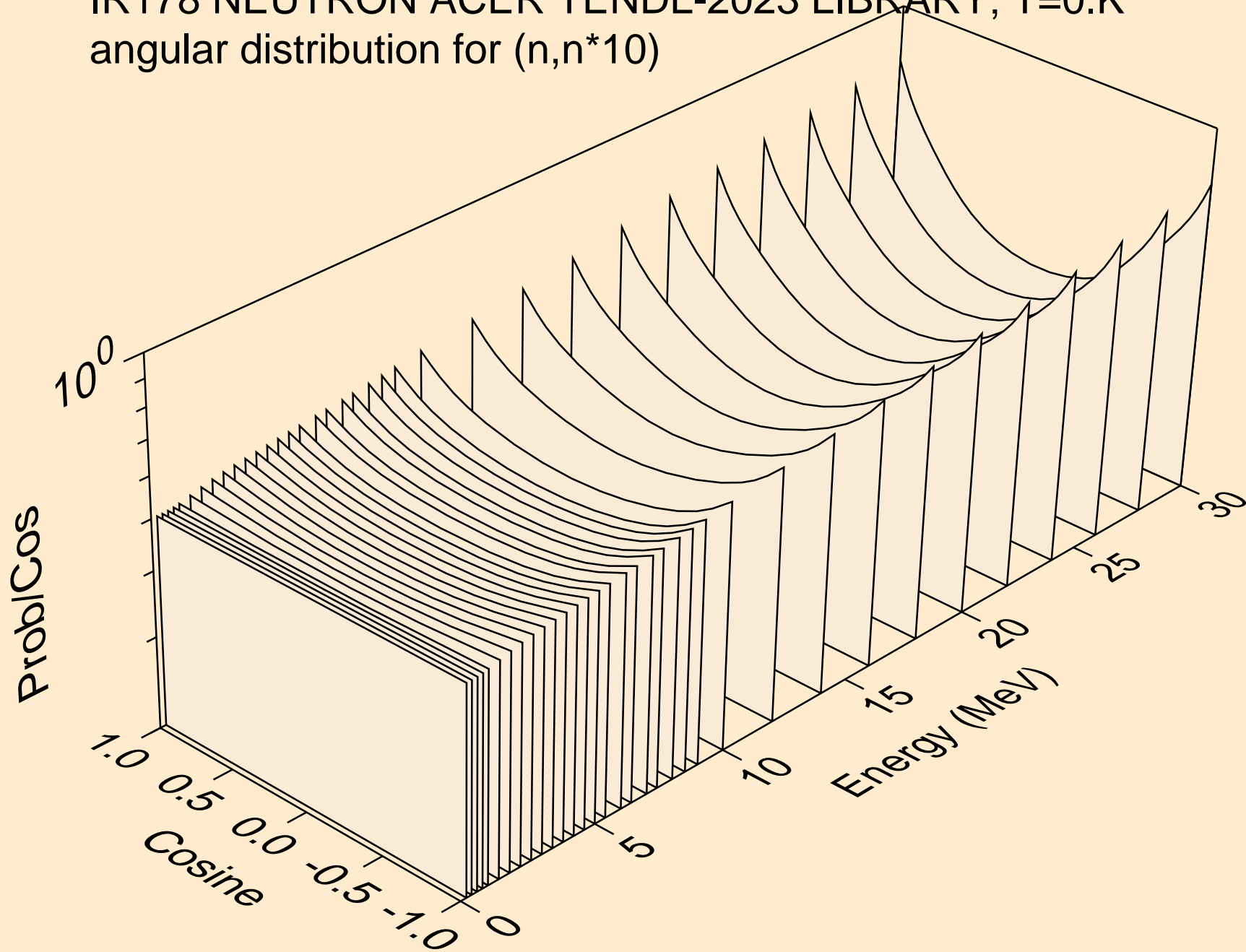
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*8)



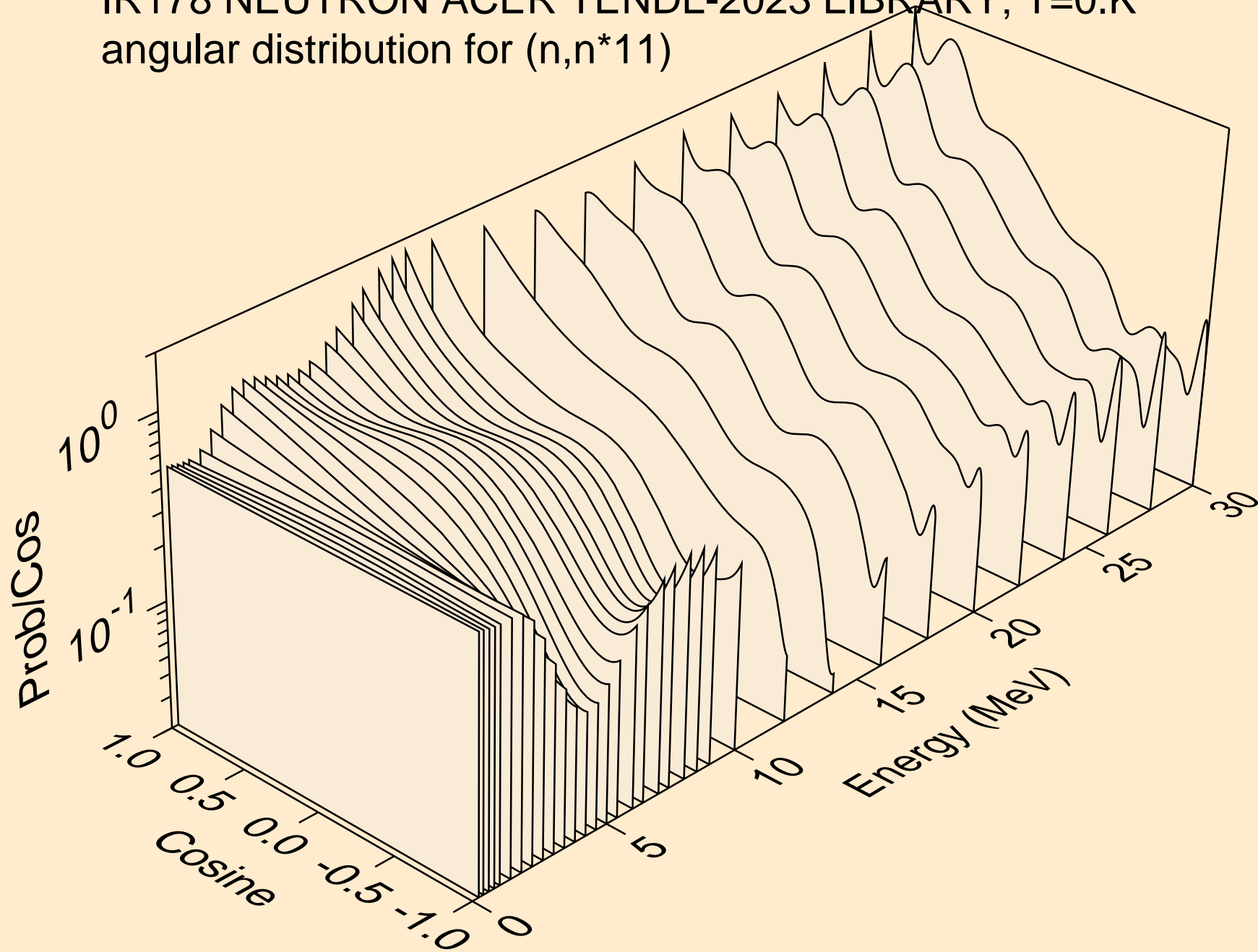
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*9)



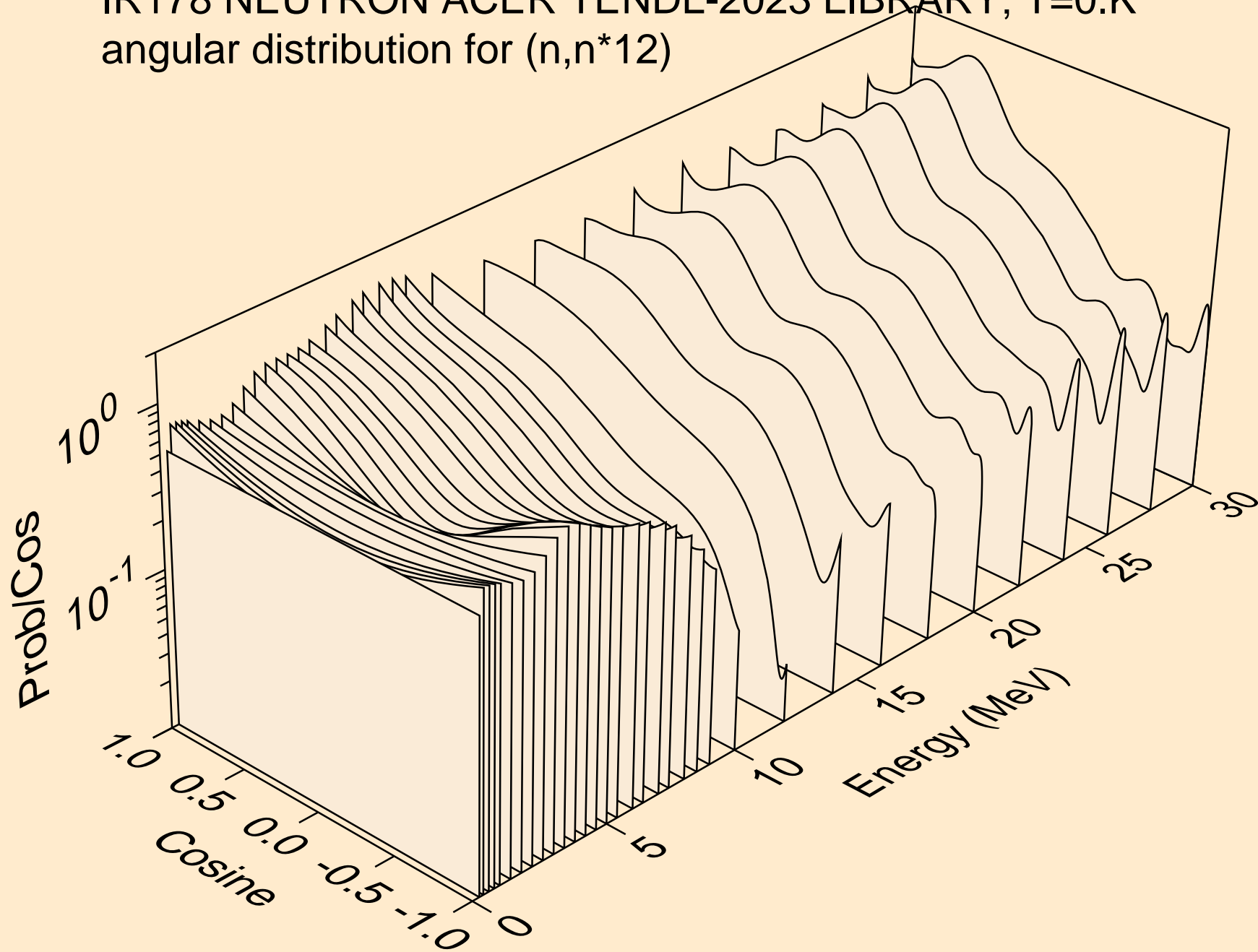
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*10)



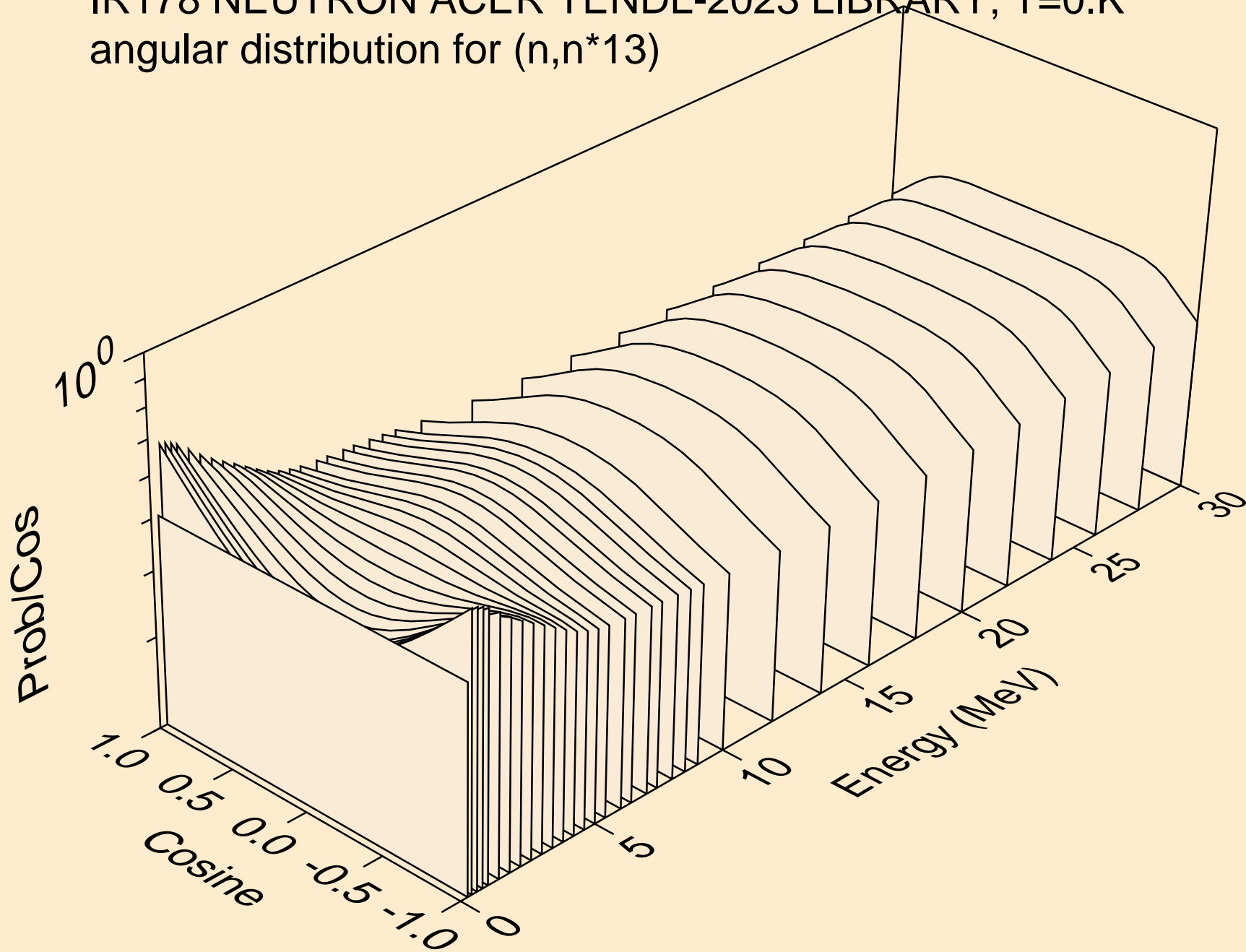
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*11)



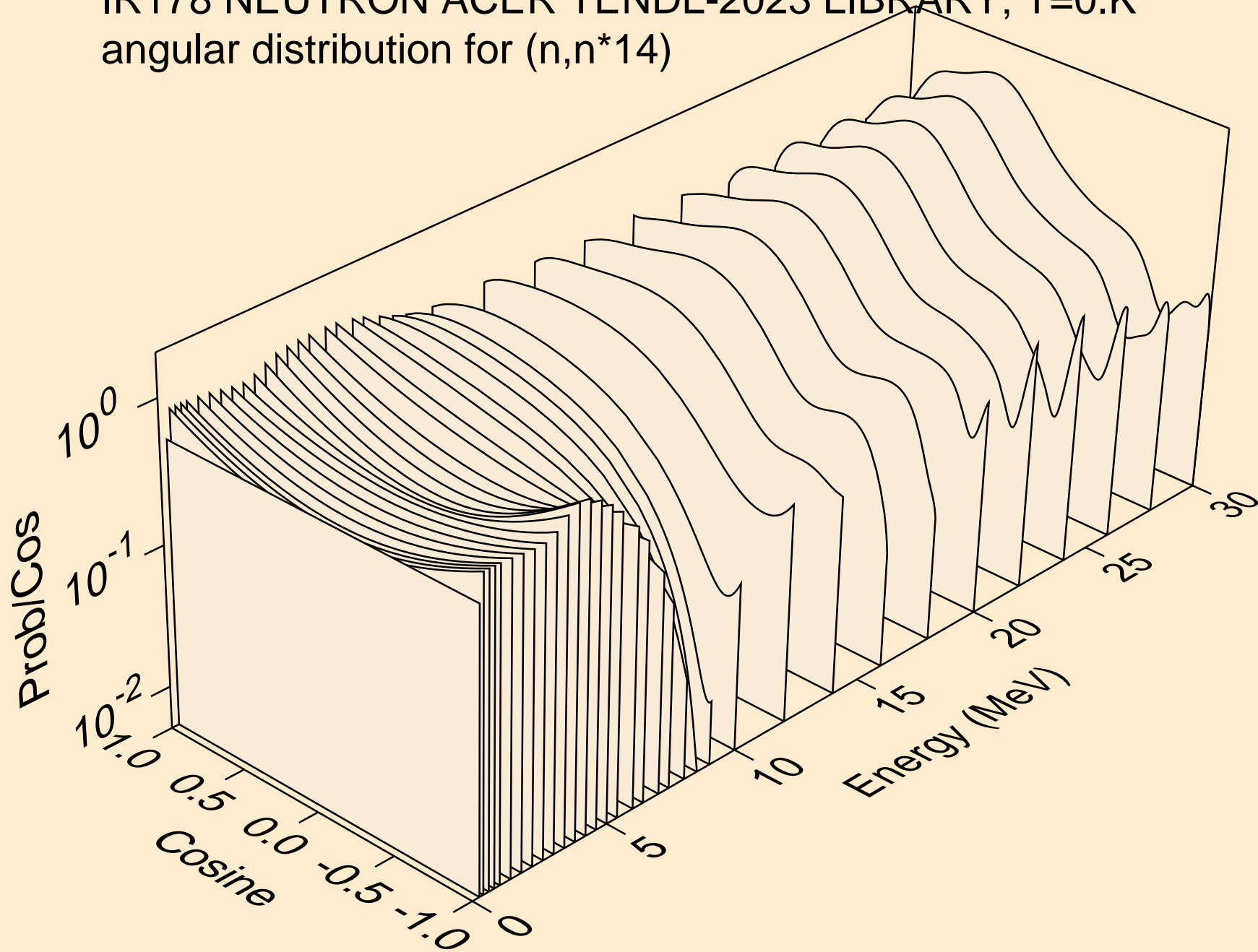
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*12)



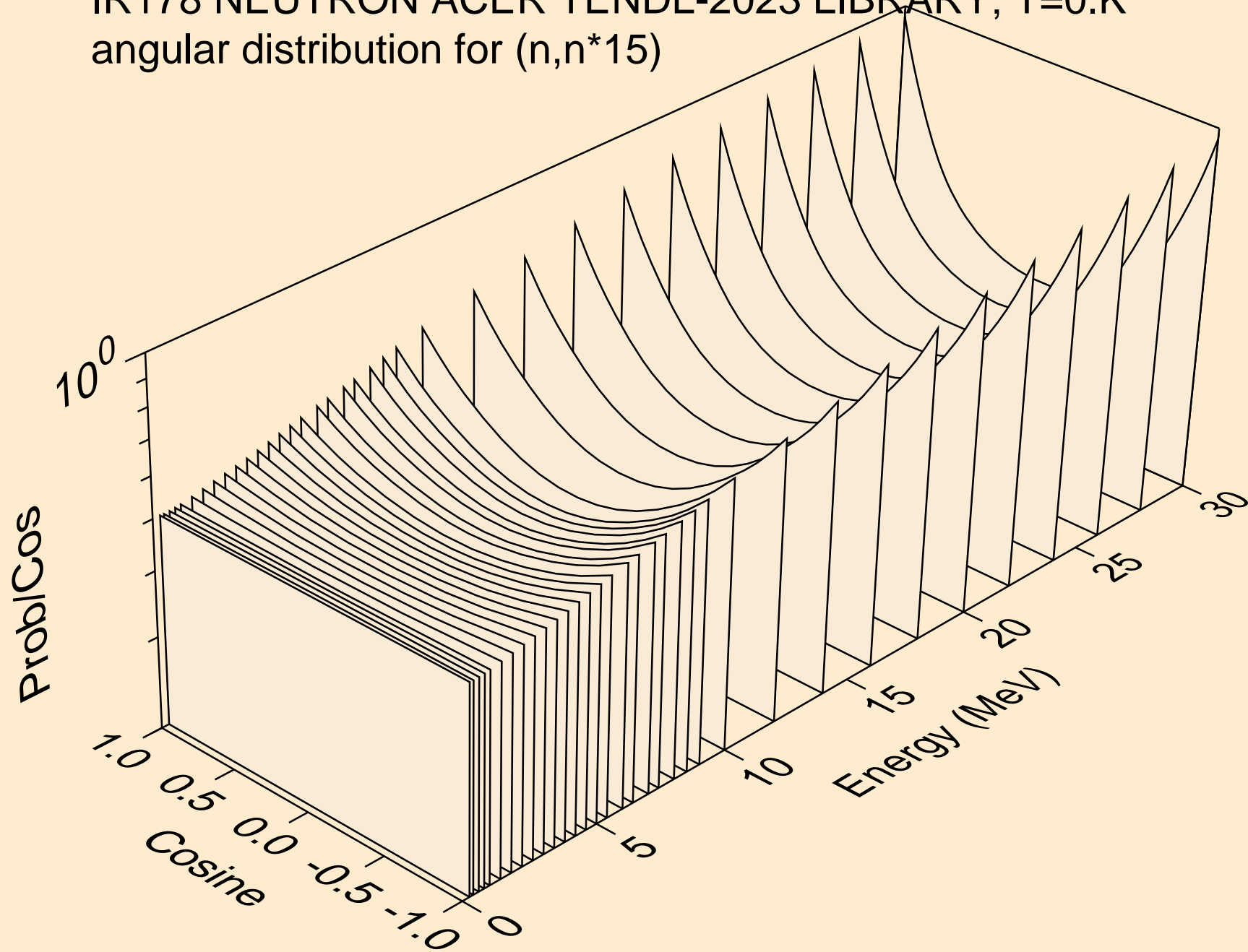
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*13)



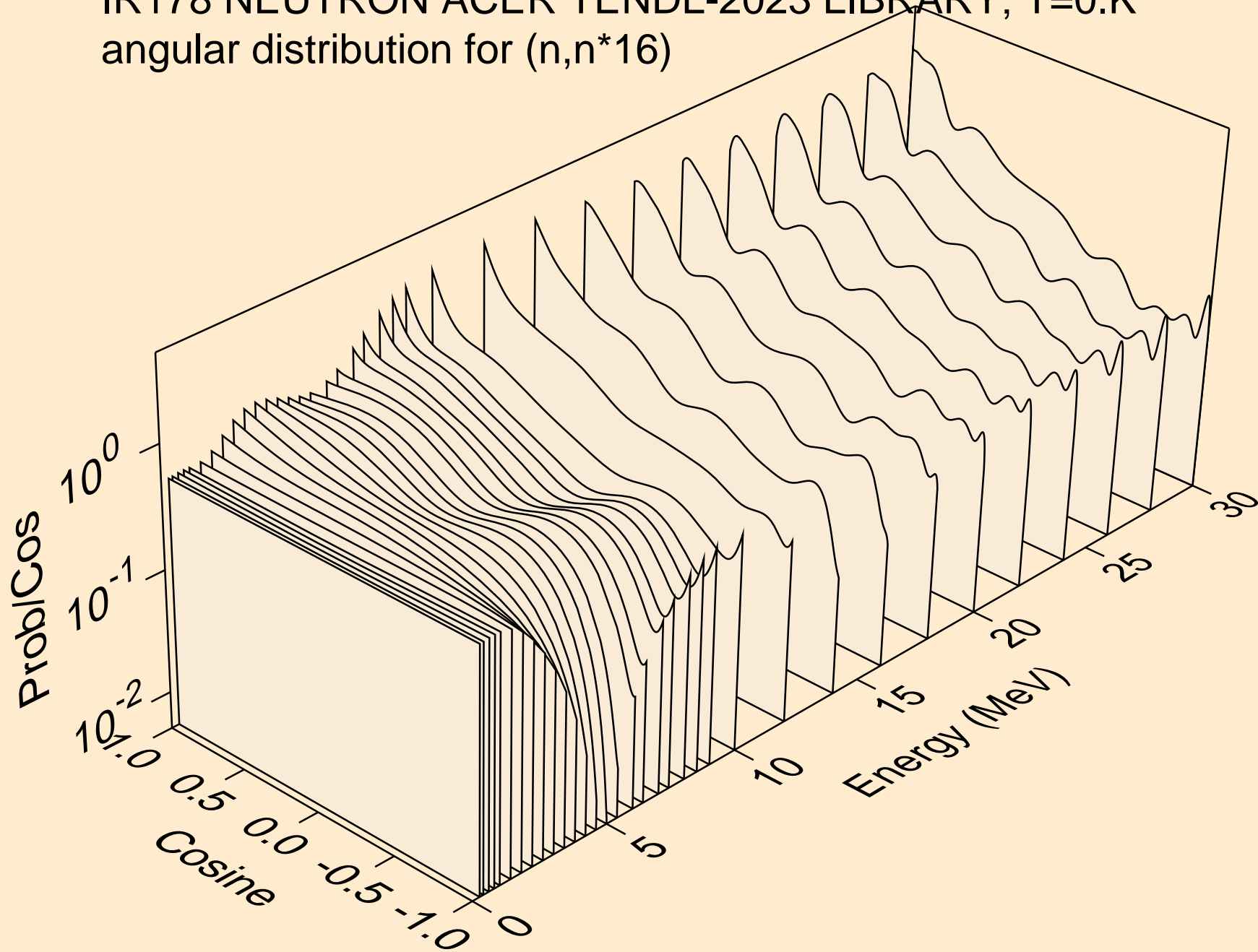
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*14)



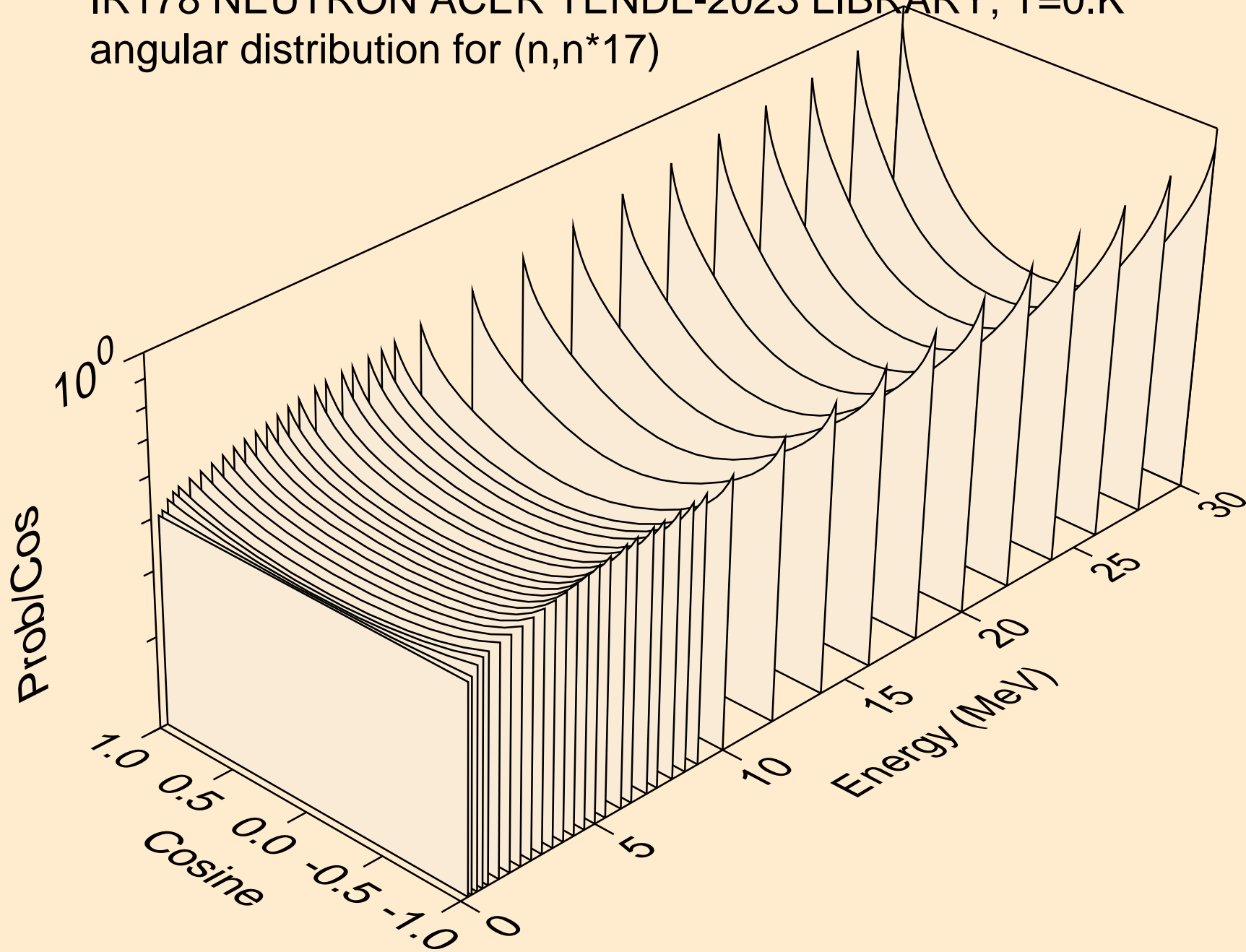
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*15)



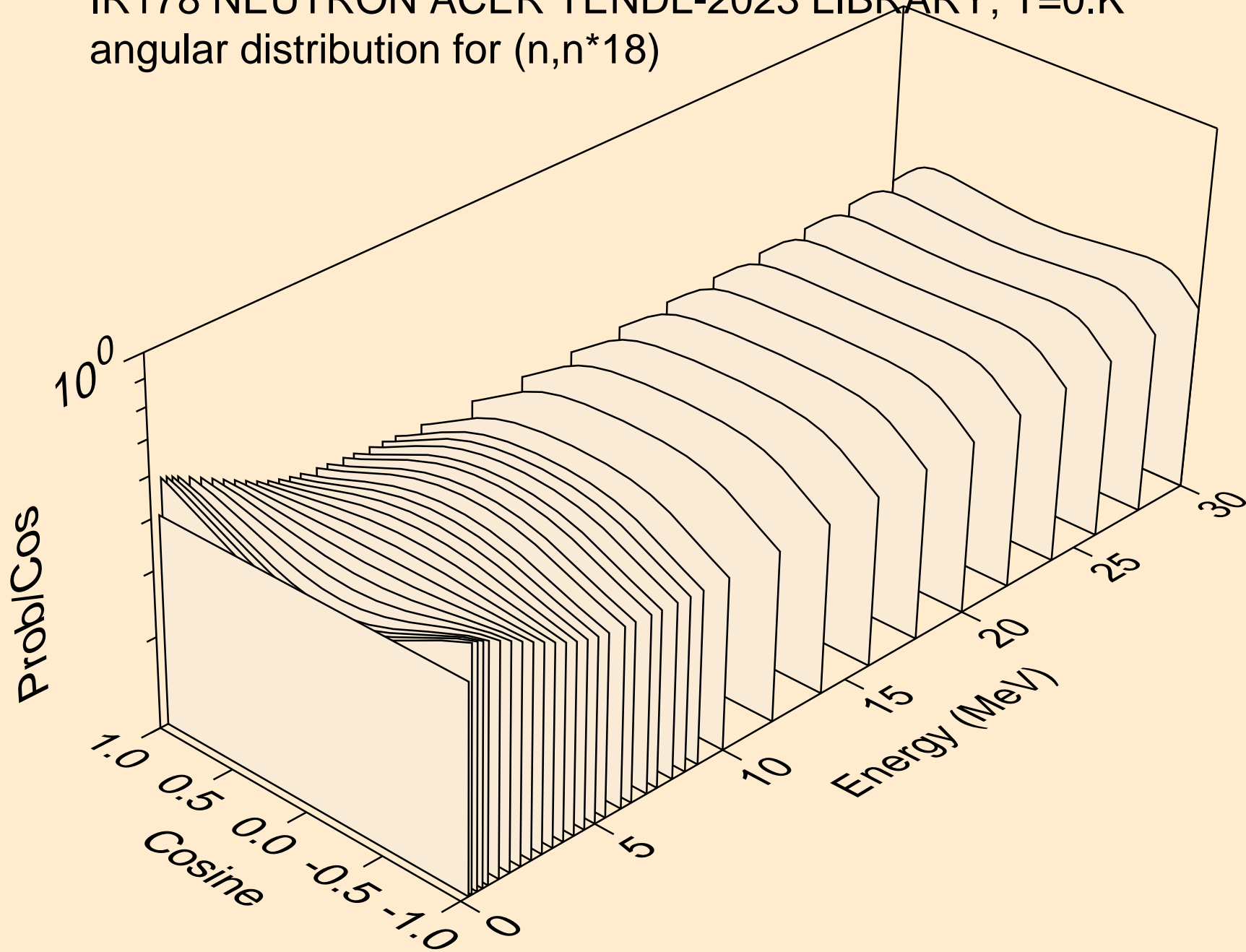
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*16)



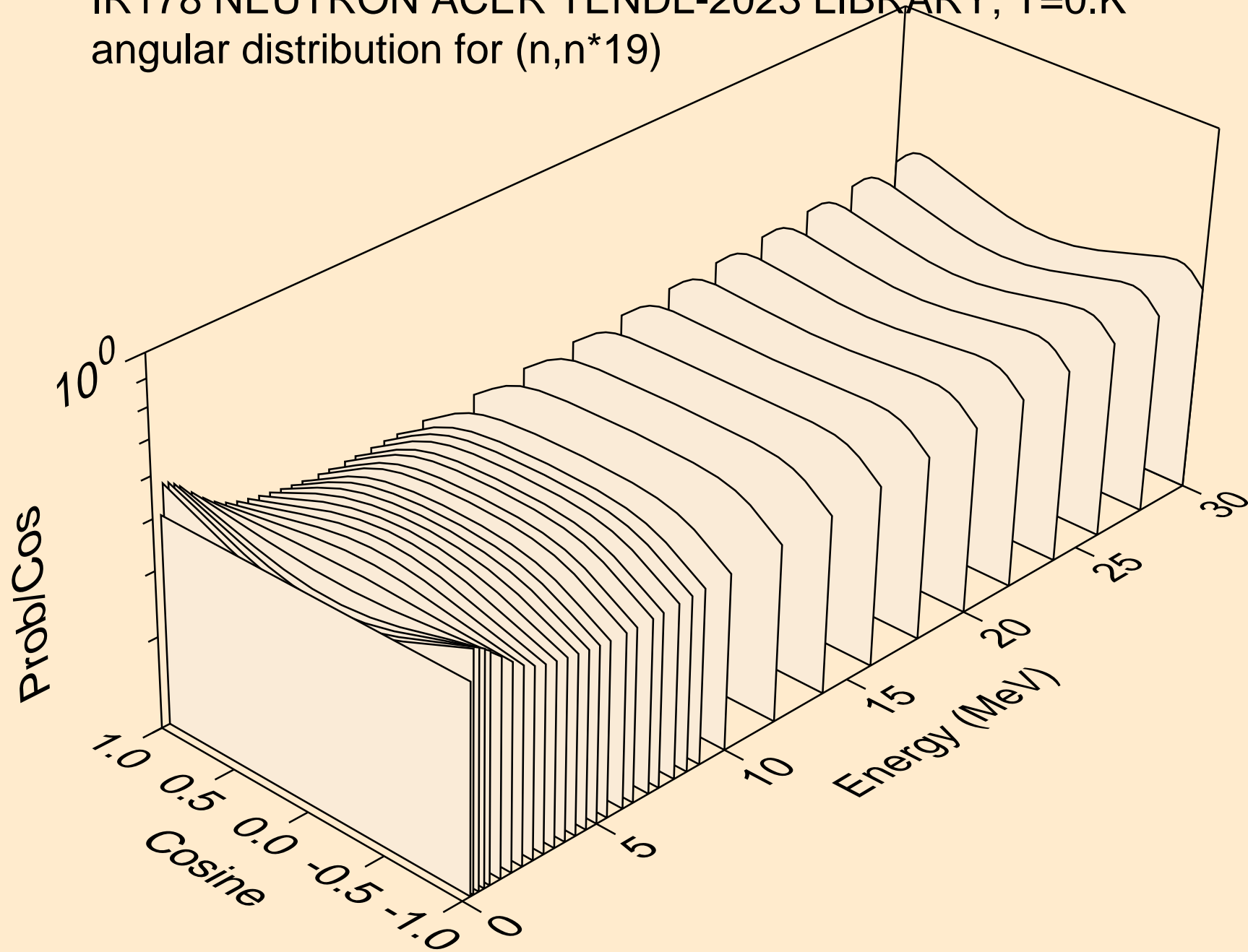
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*17)



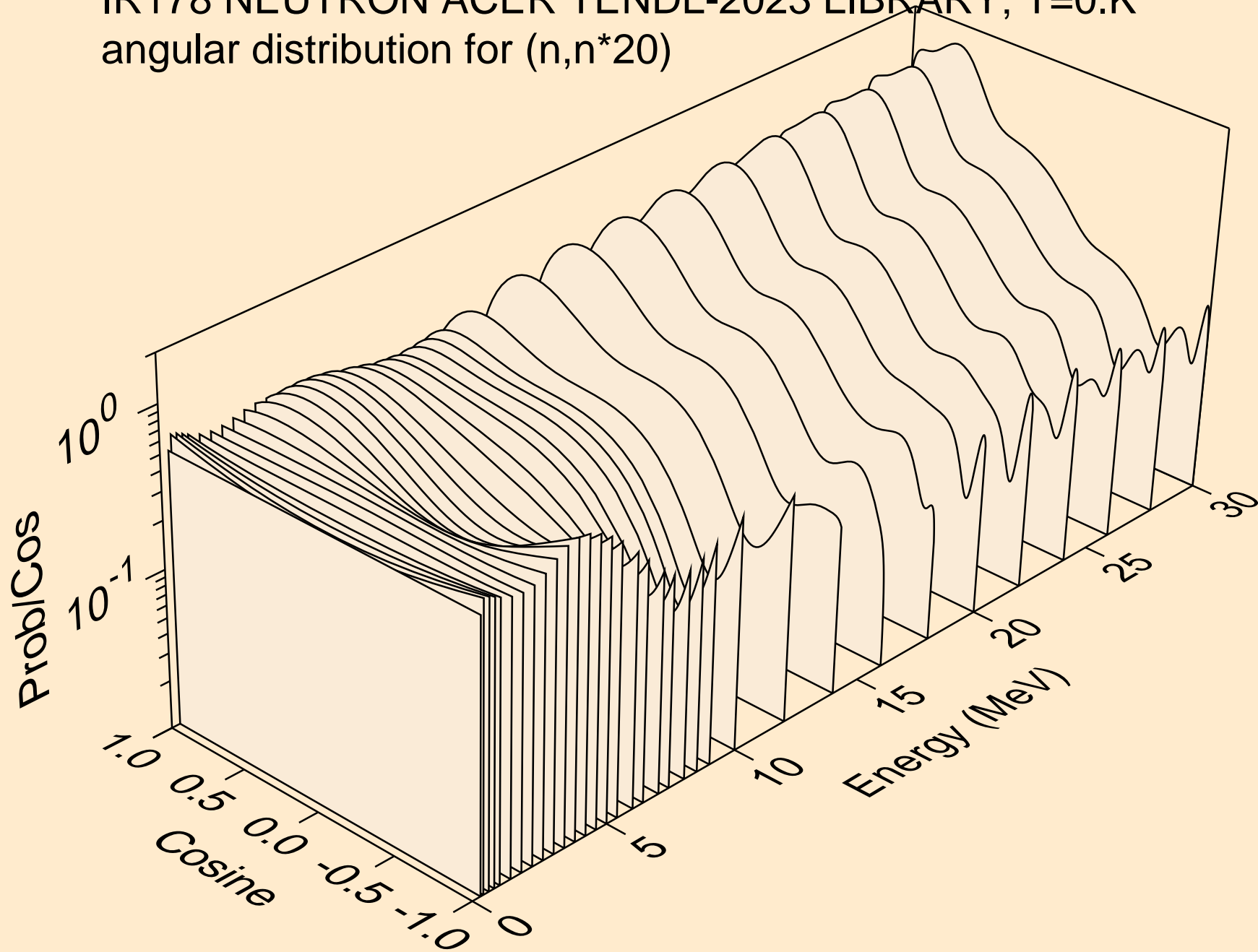
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*18)



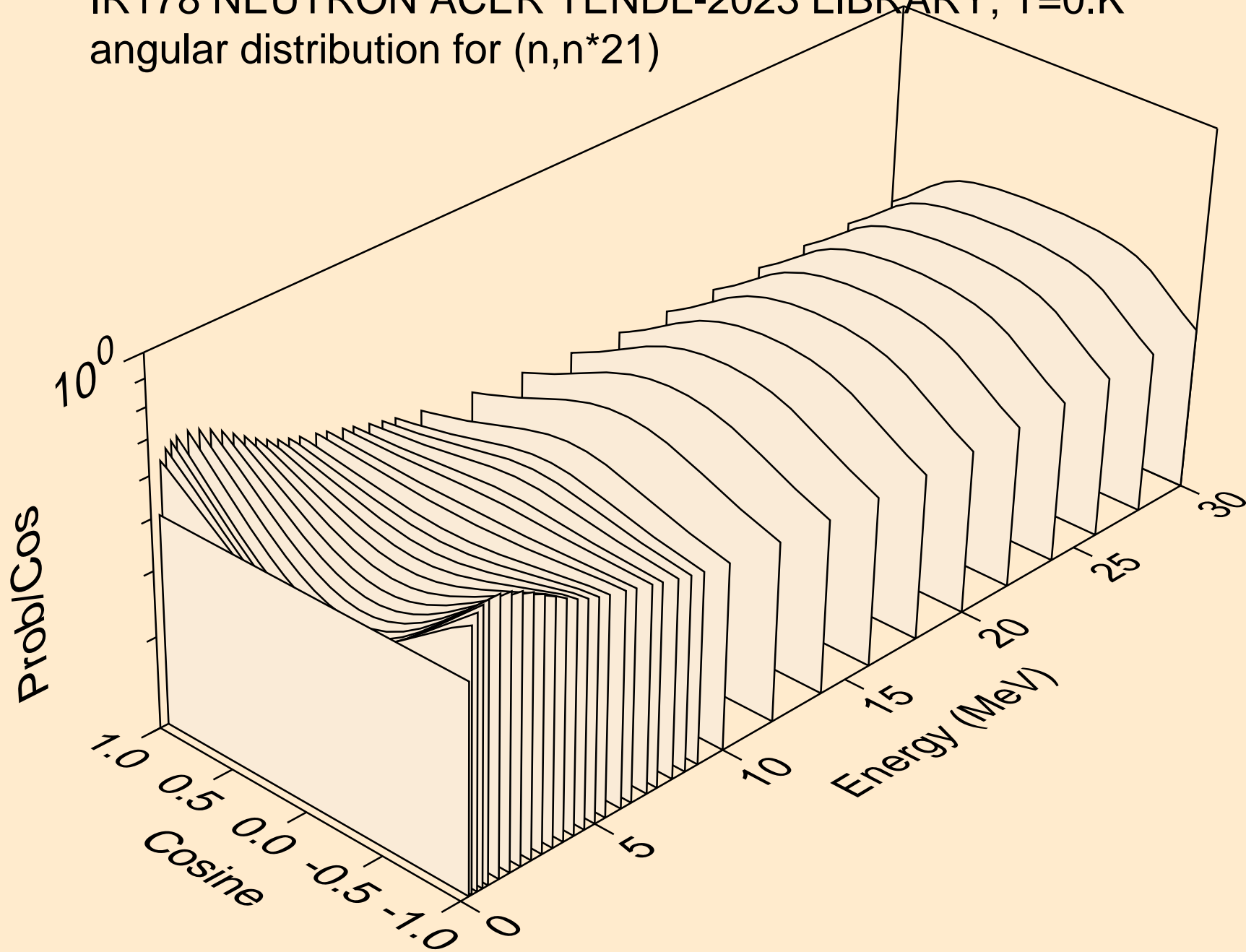
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*19)



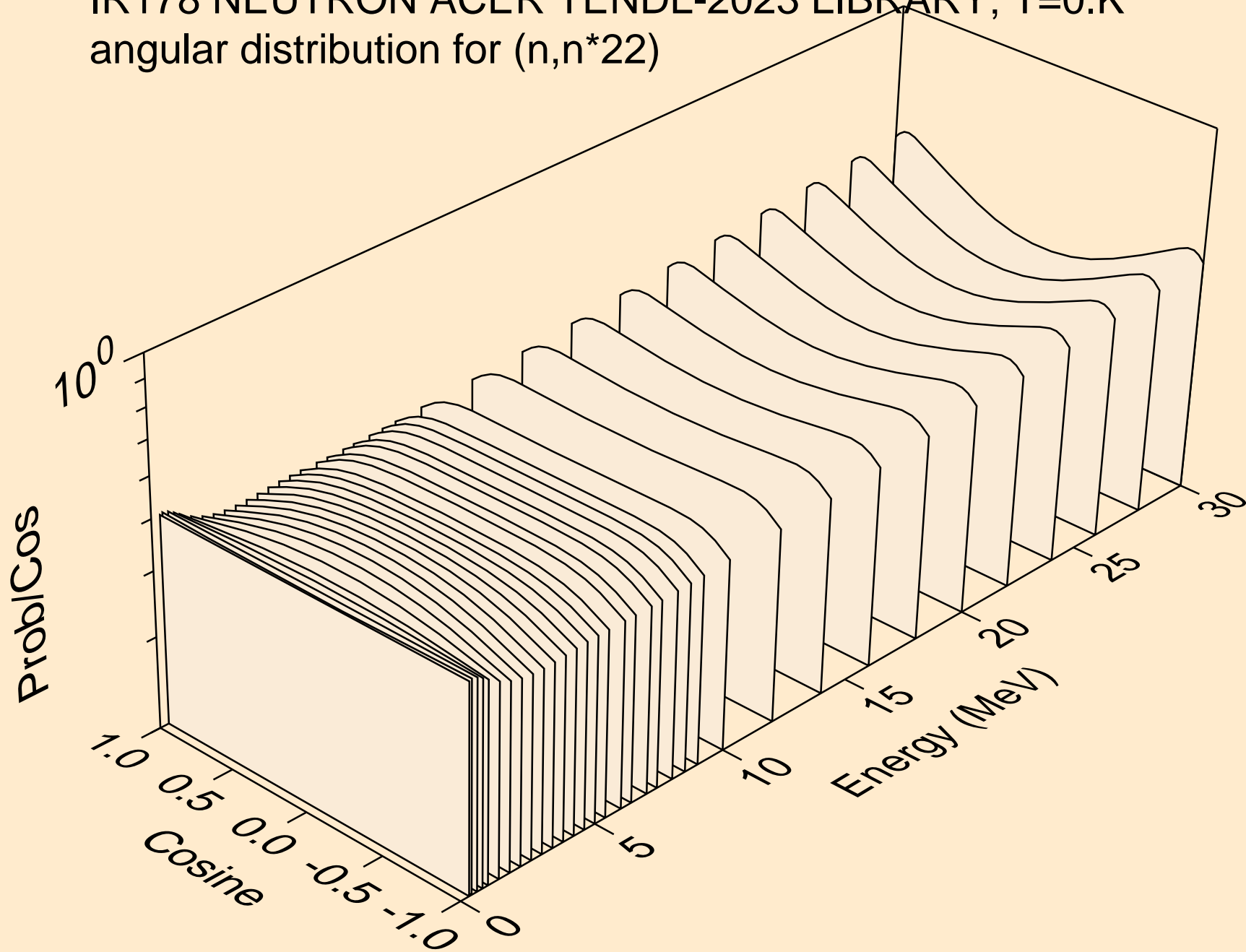
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*20)



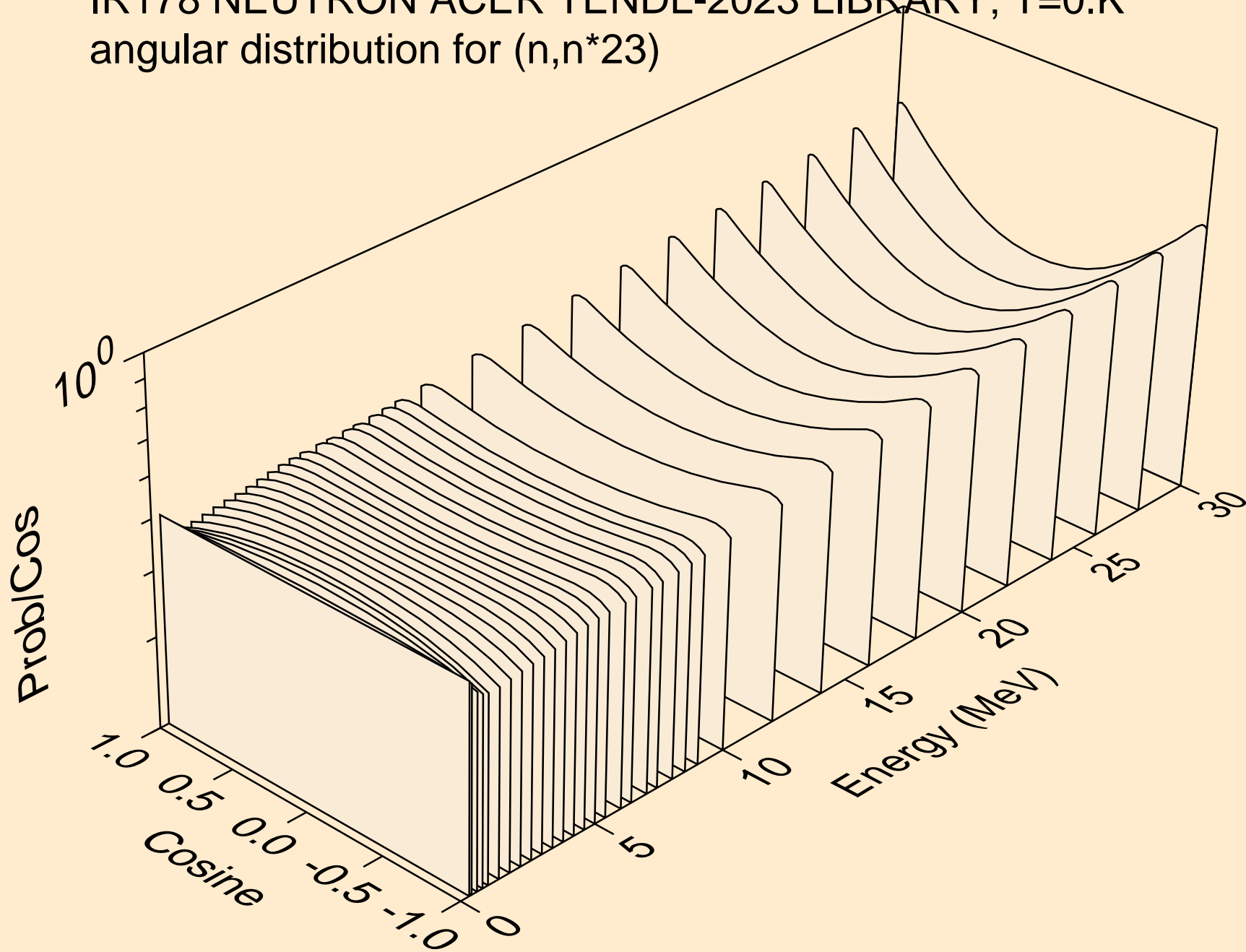
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*21)



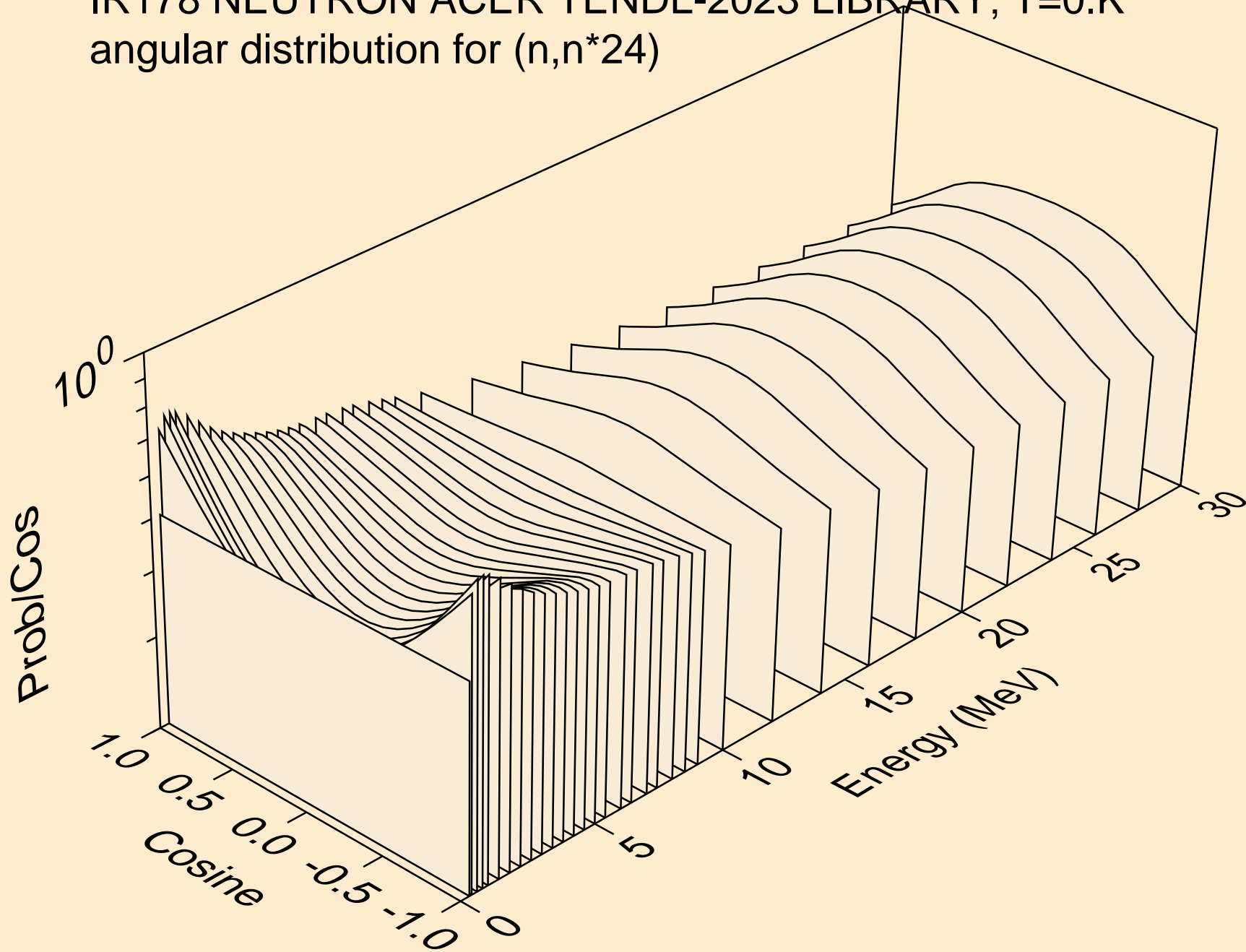
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*22)



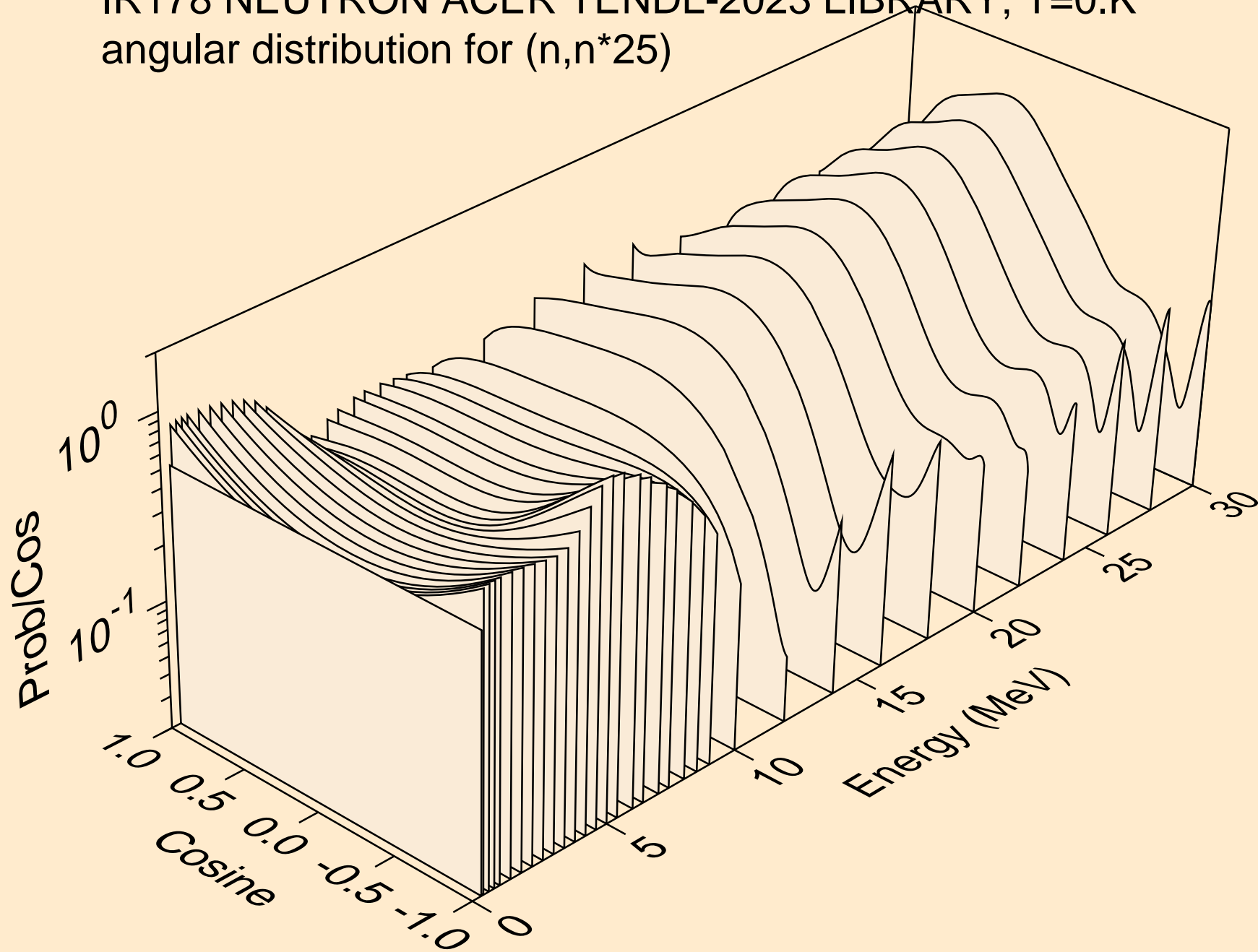
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*23)



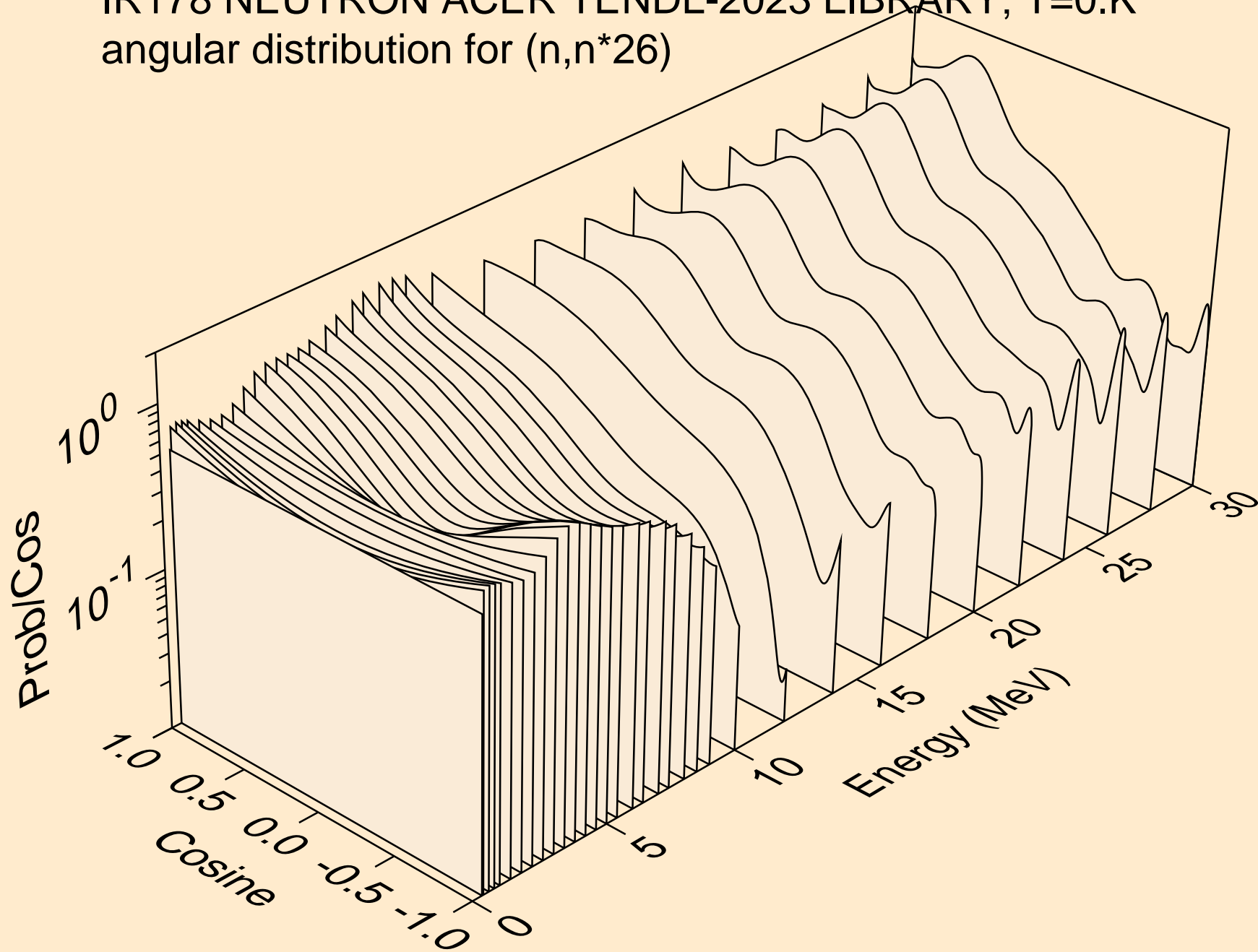
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*24)



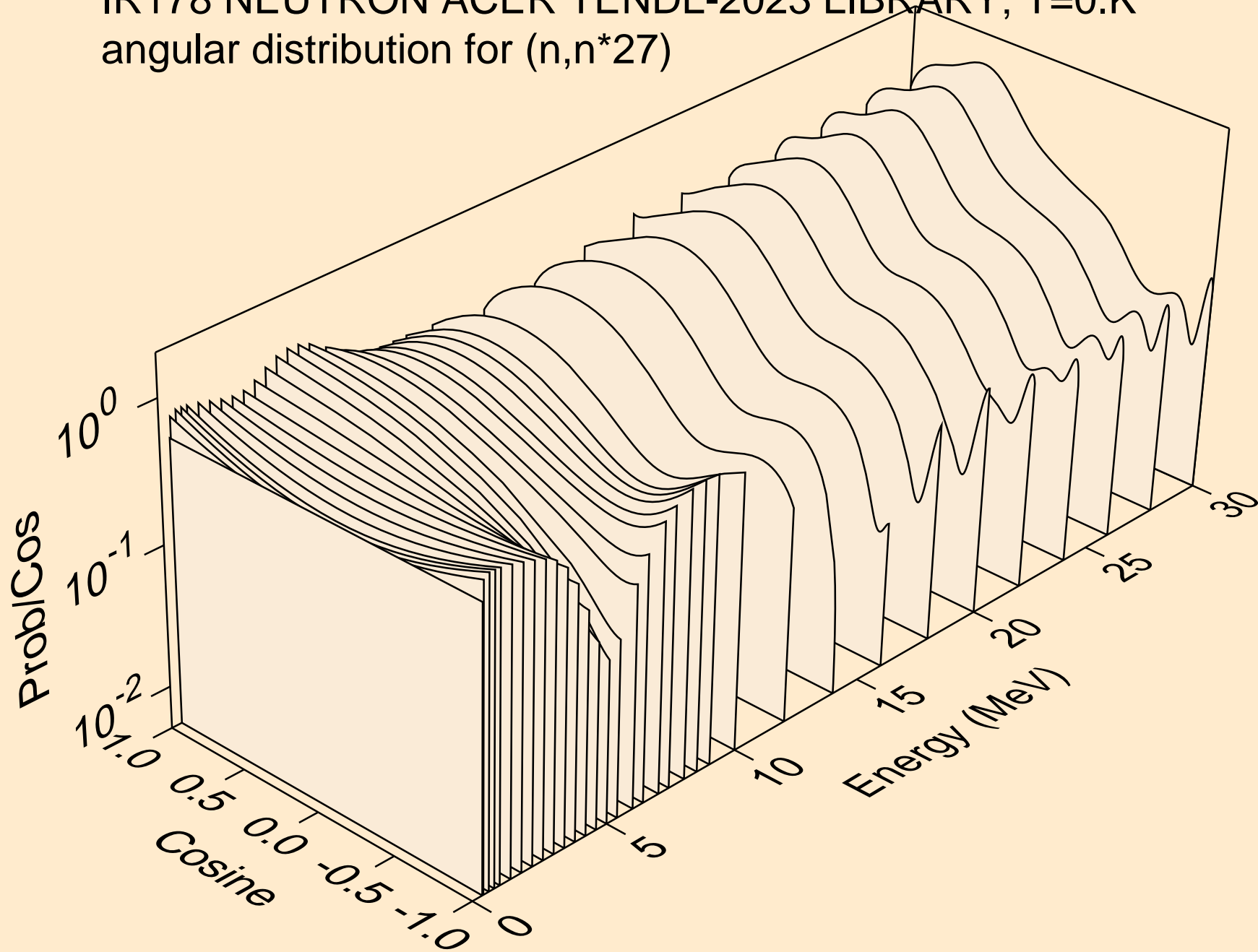
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*25)



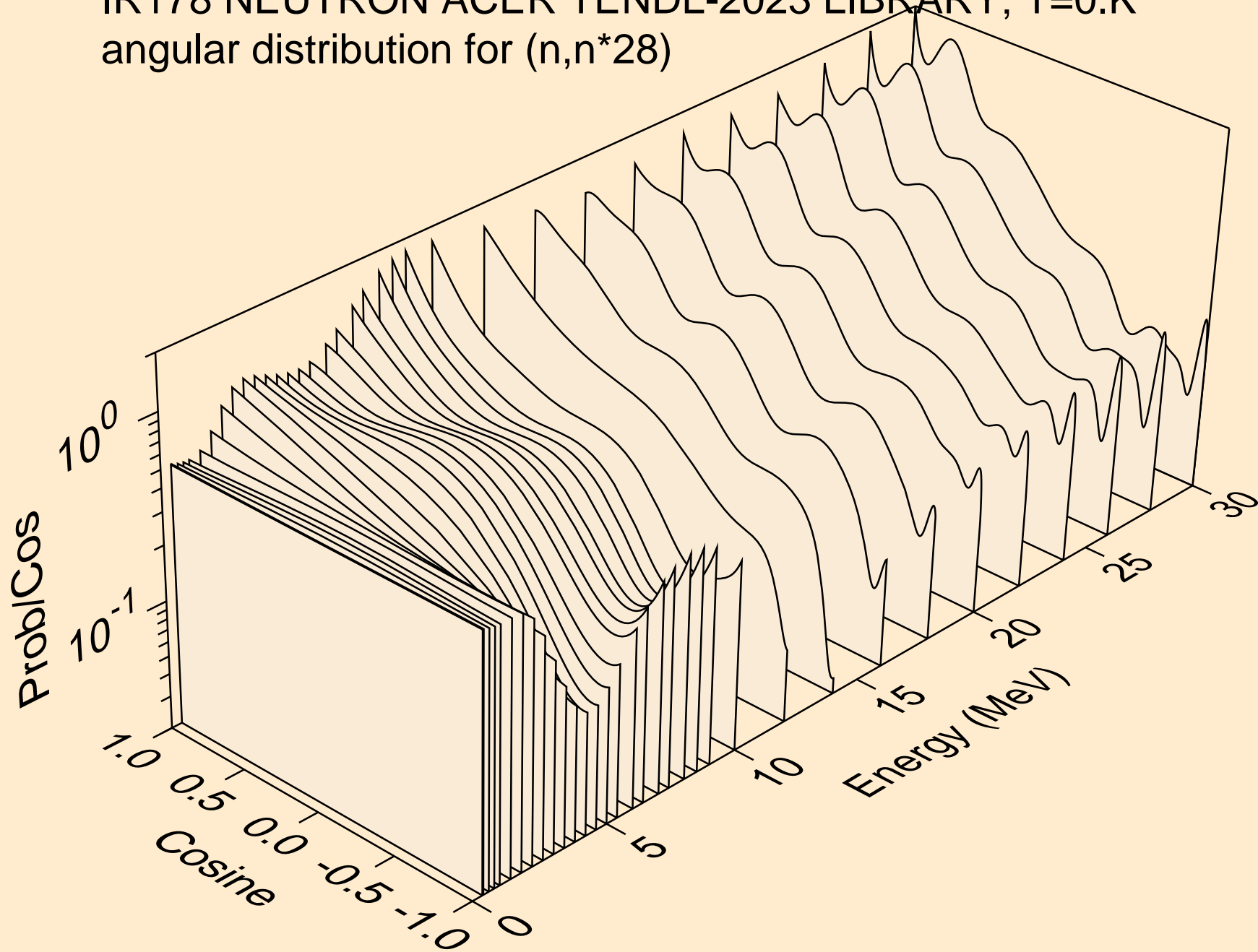
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*26)



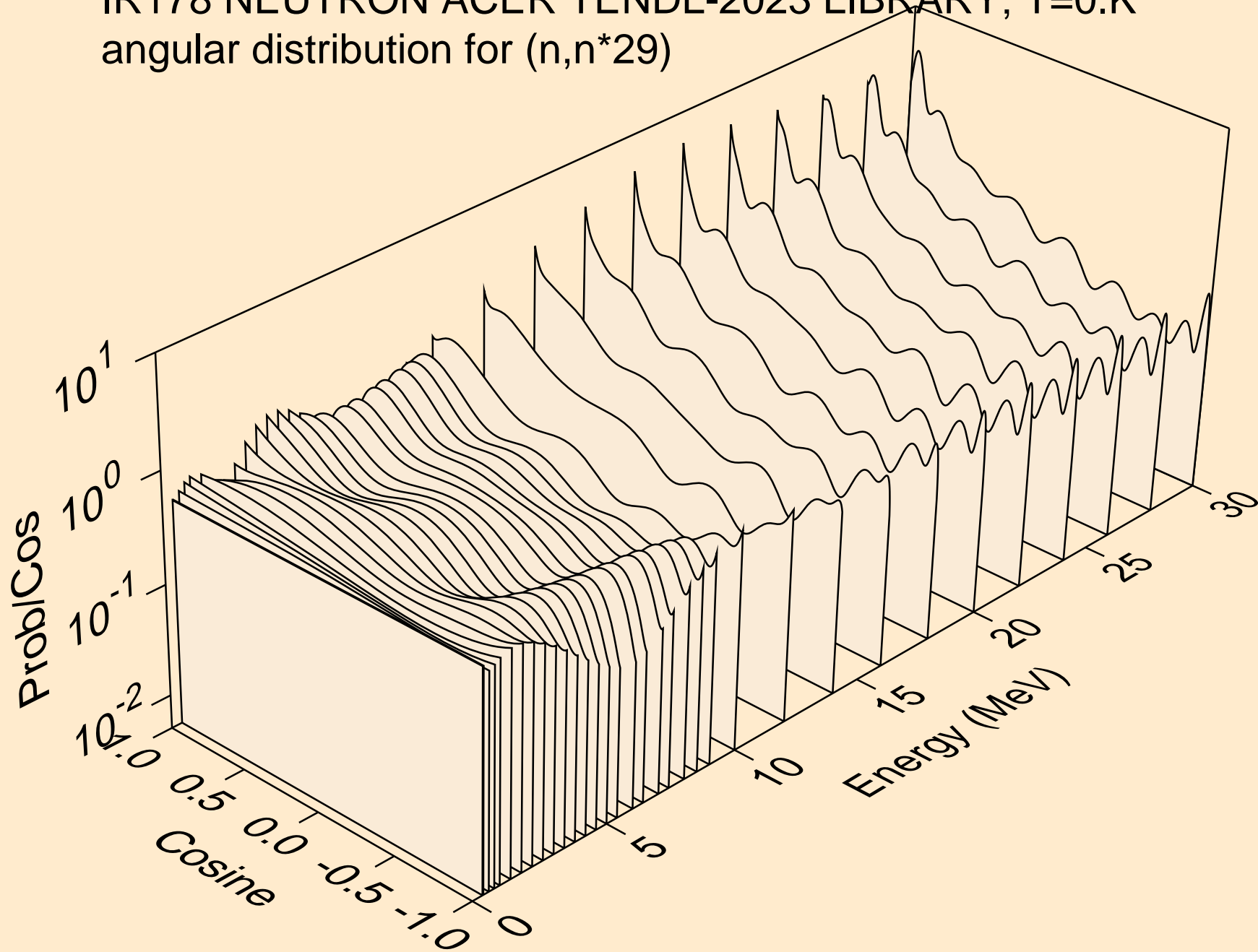
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*27)



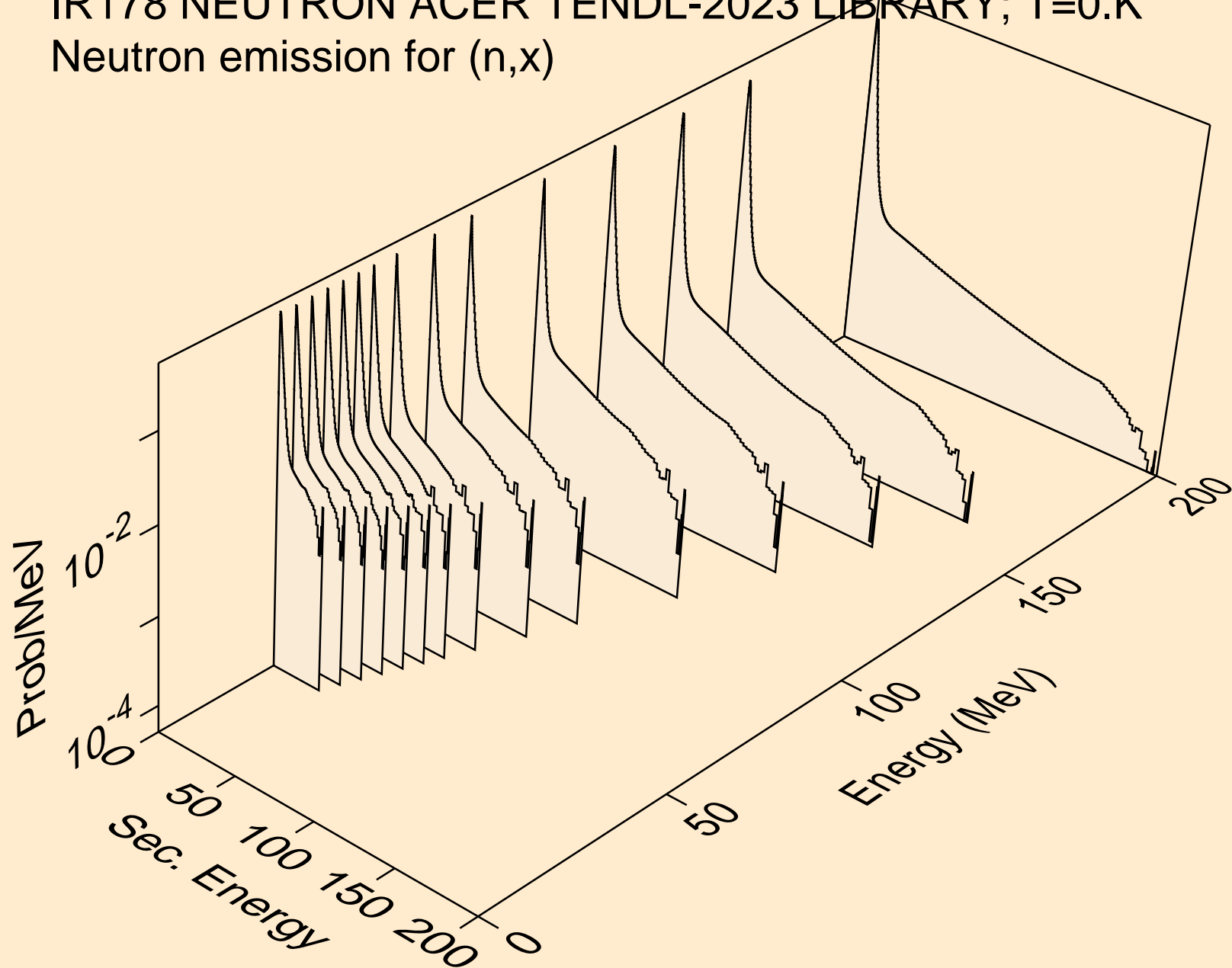
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*28)



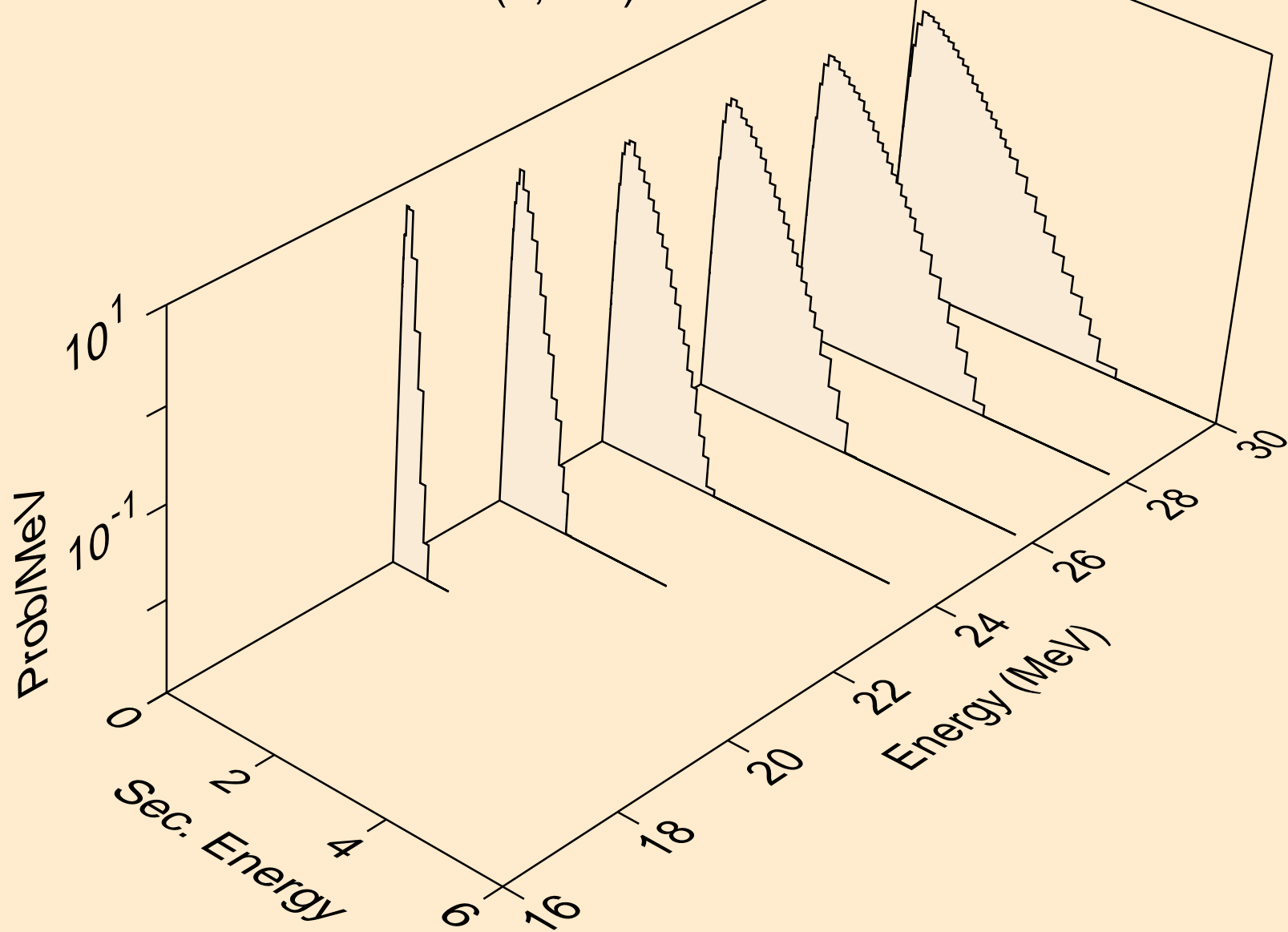
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*29)



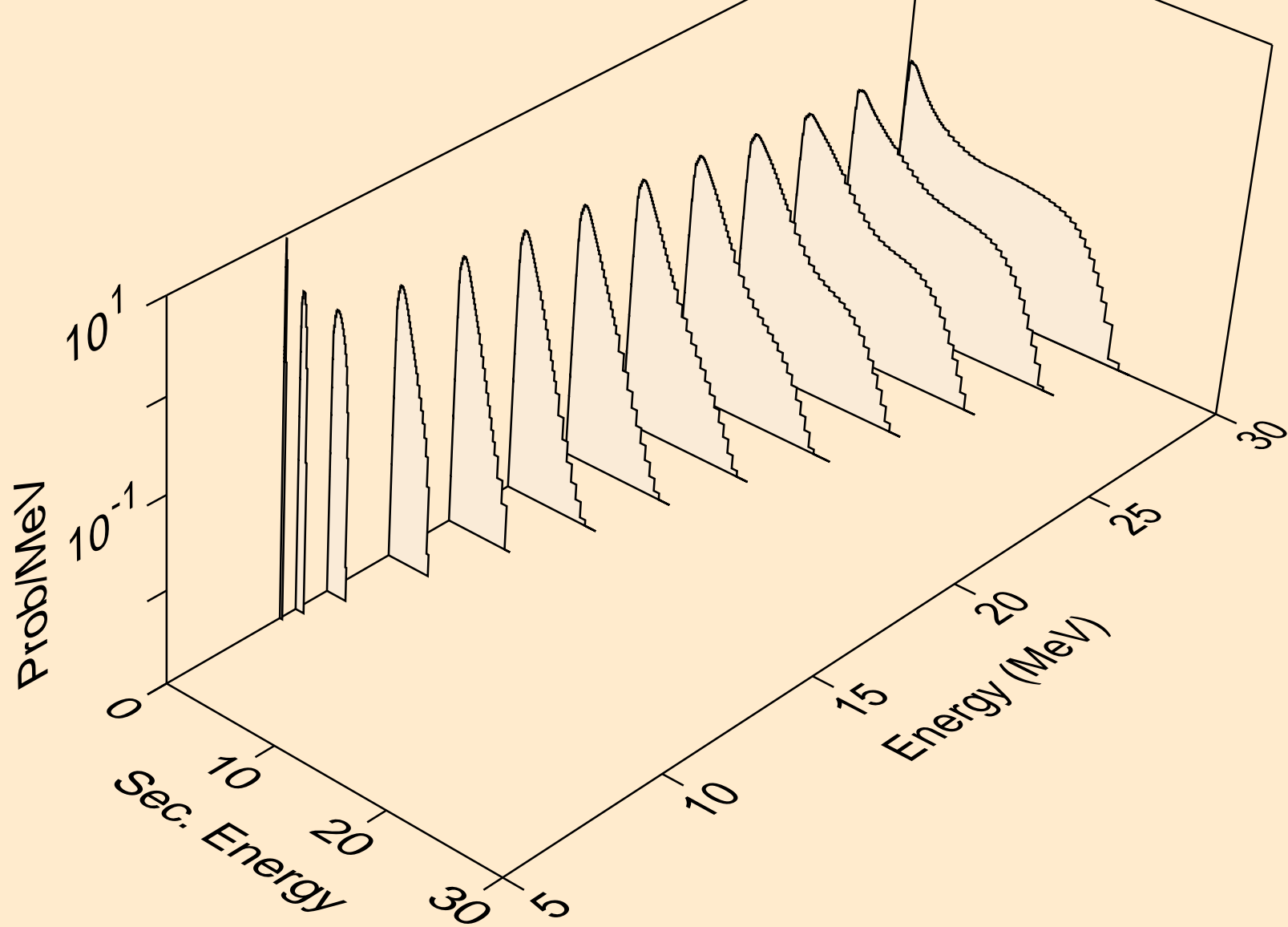
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,x)



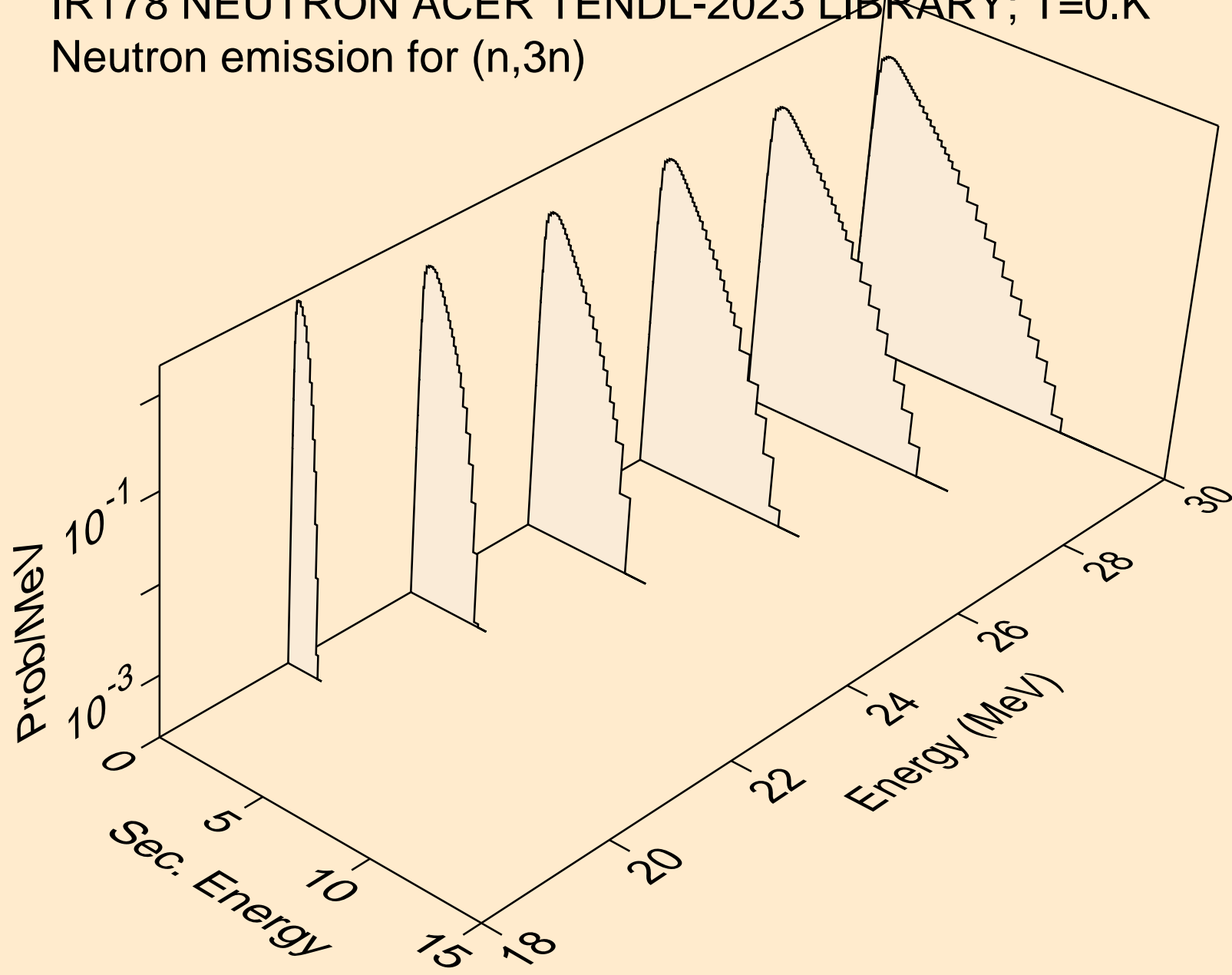
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2nd)



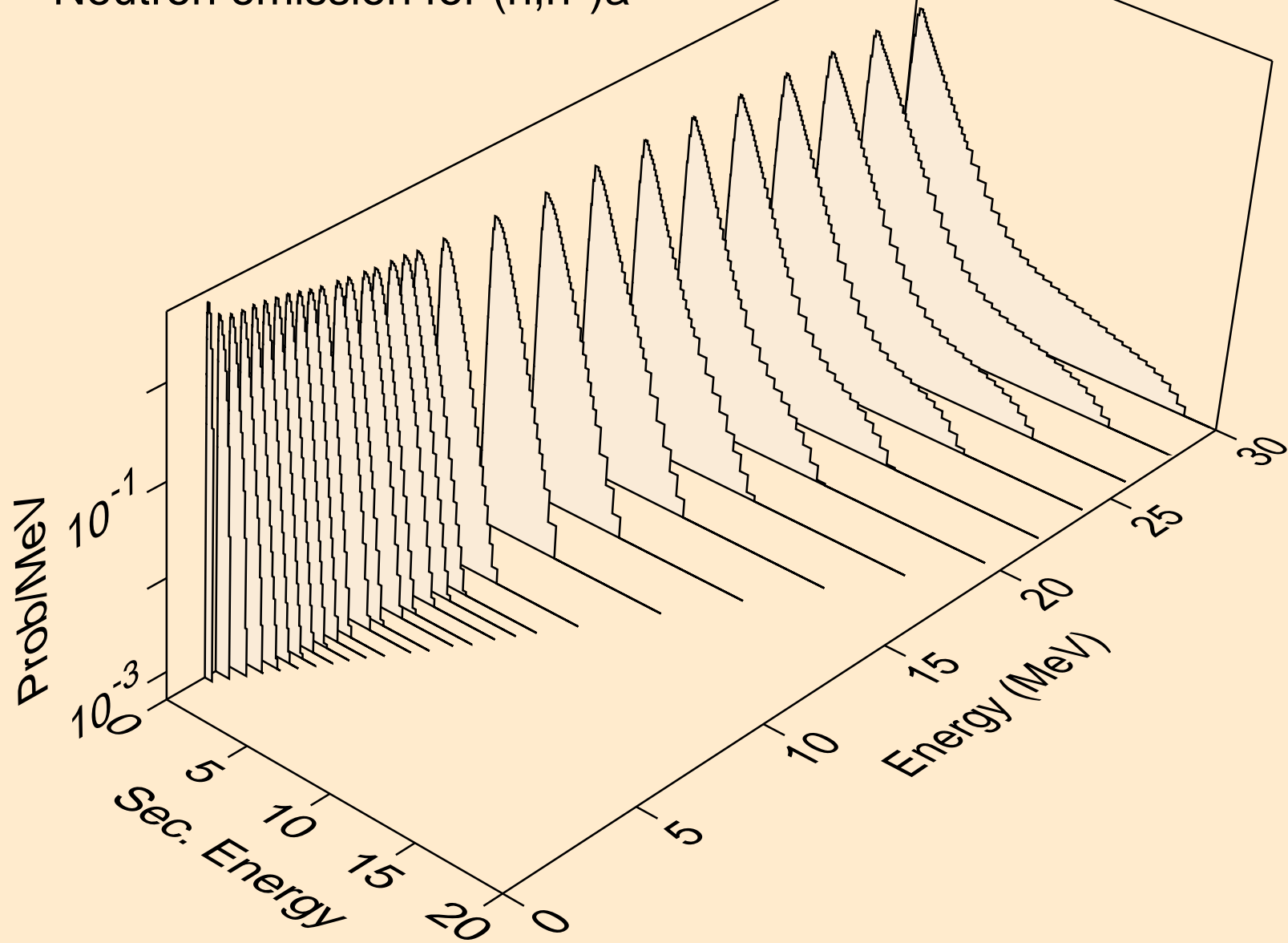
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)



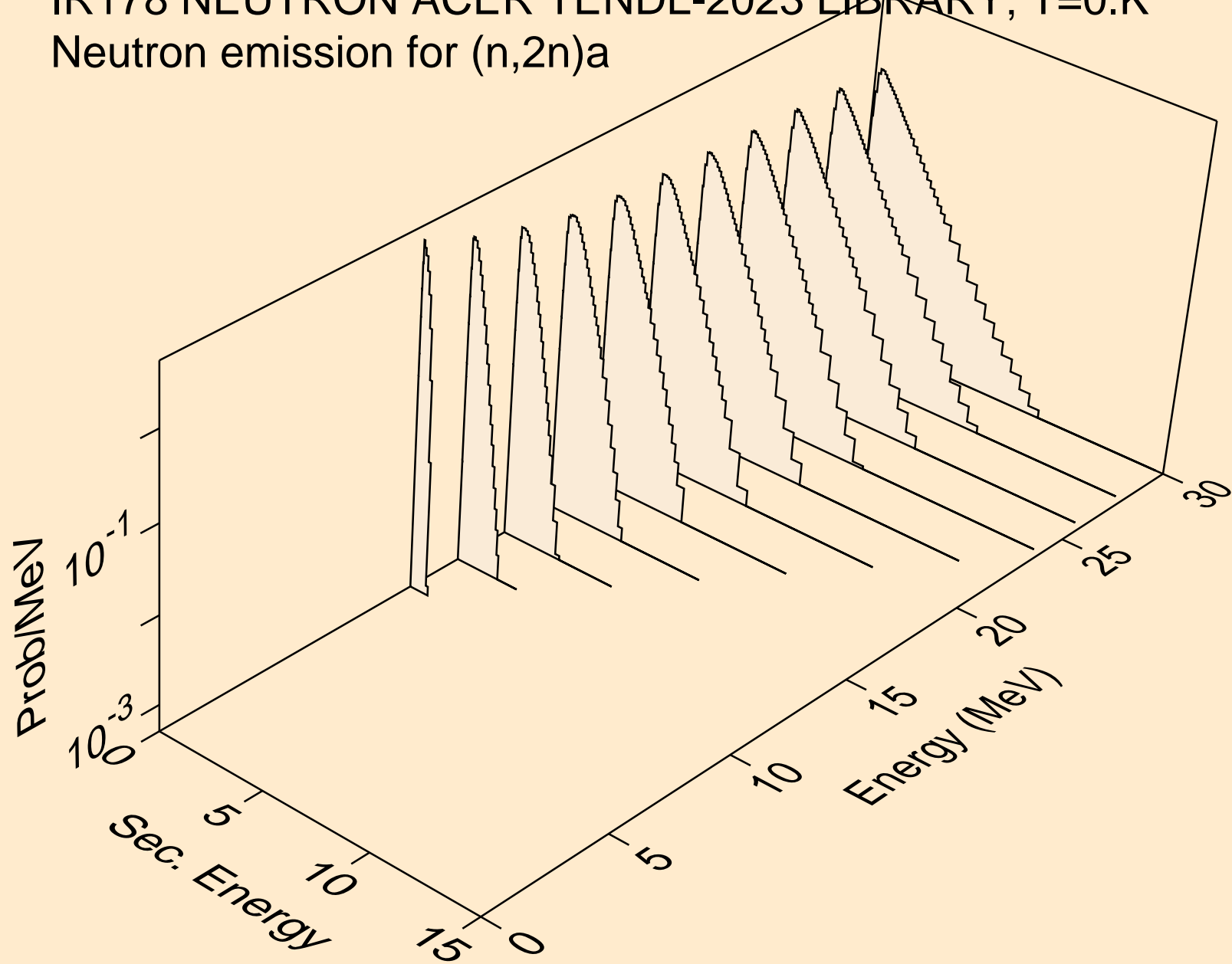
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3n)



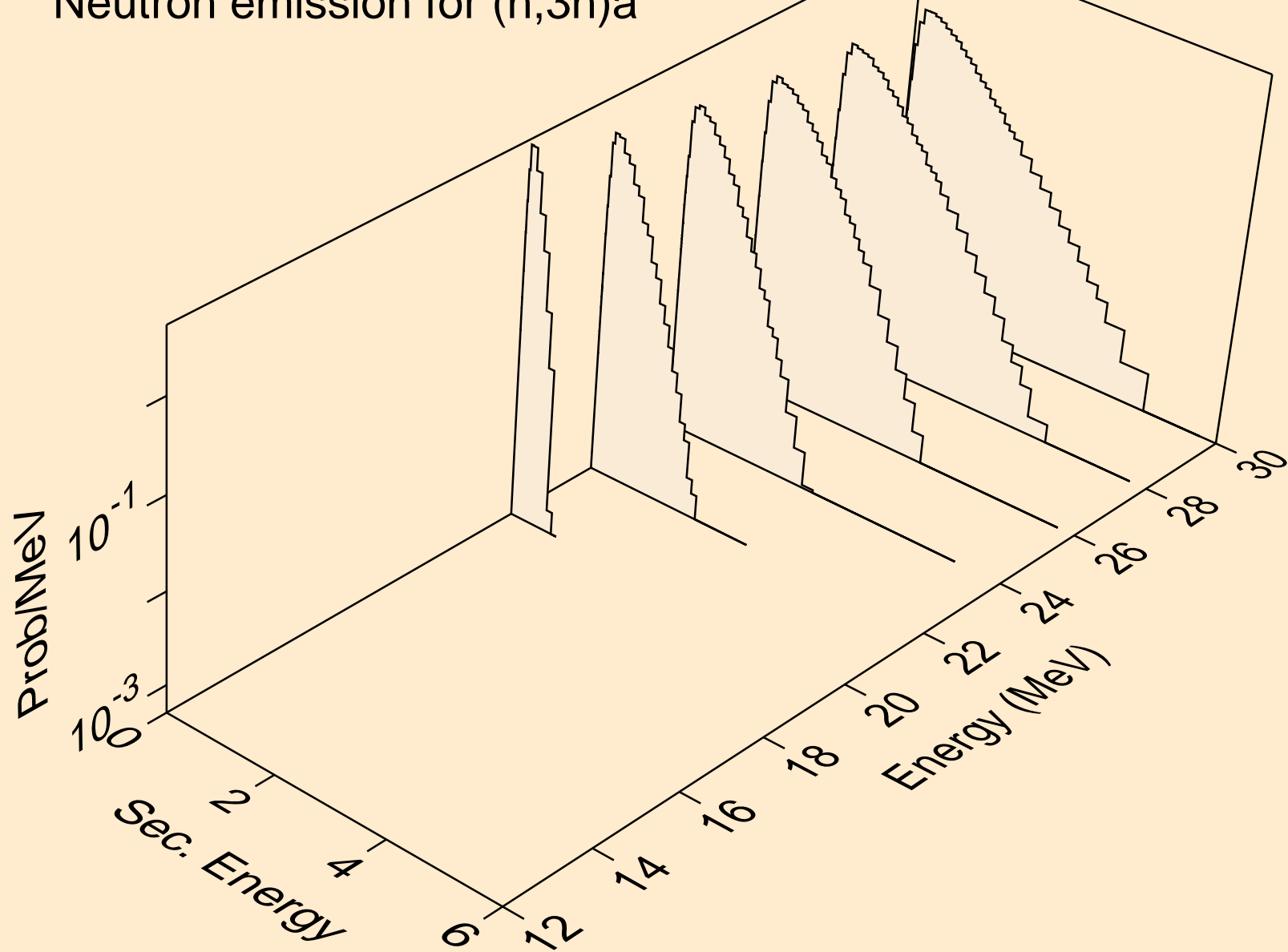
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)a



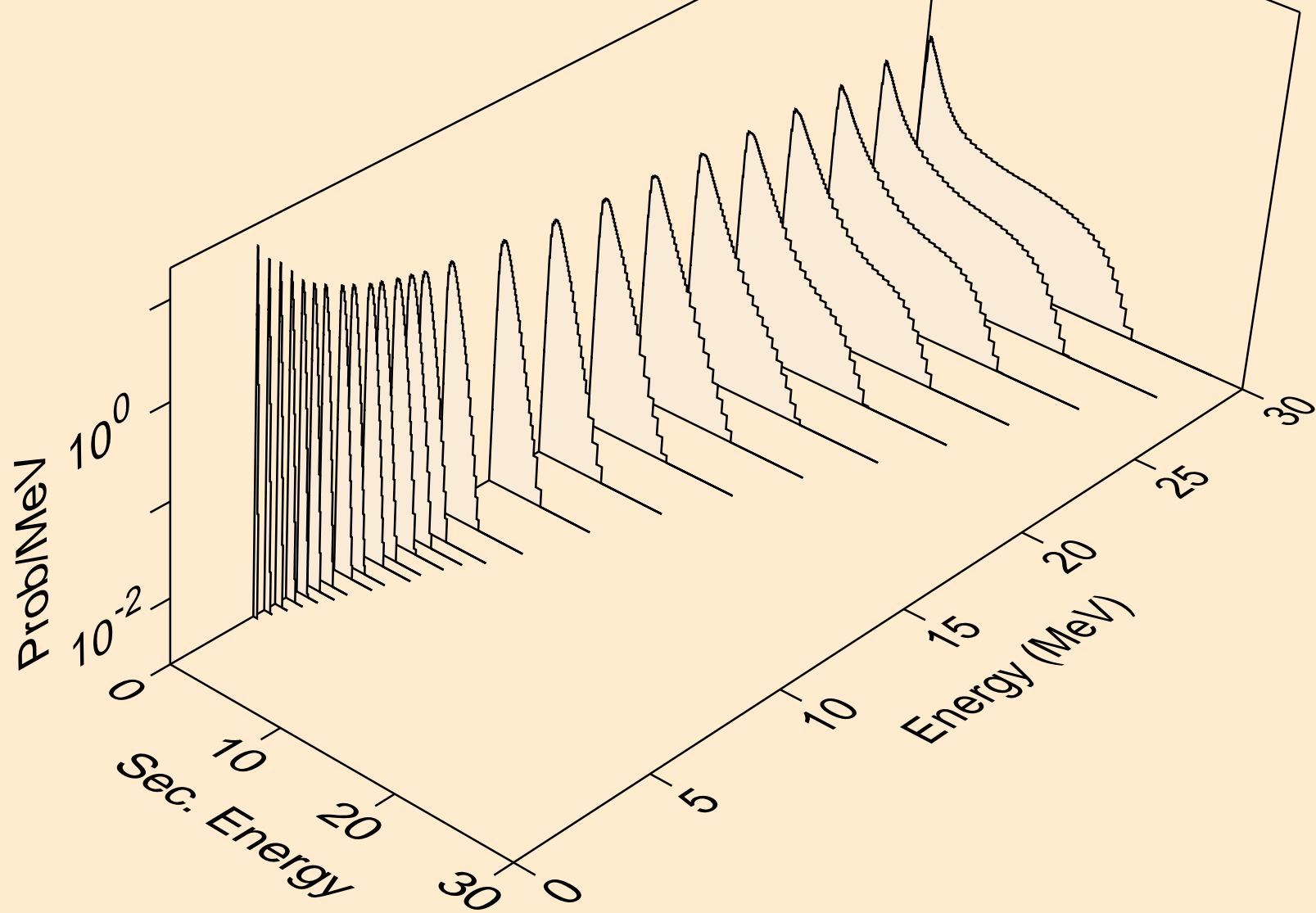
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)a



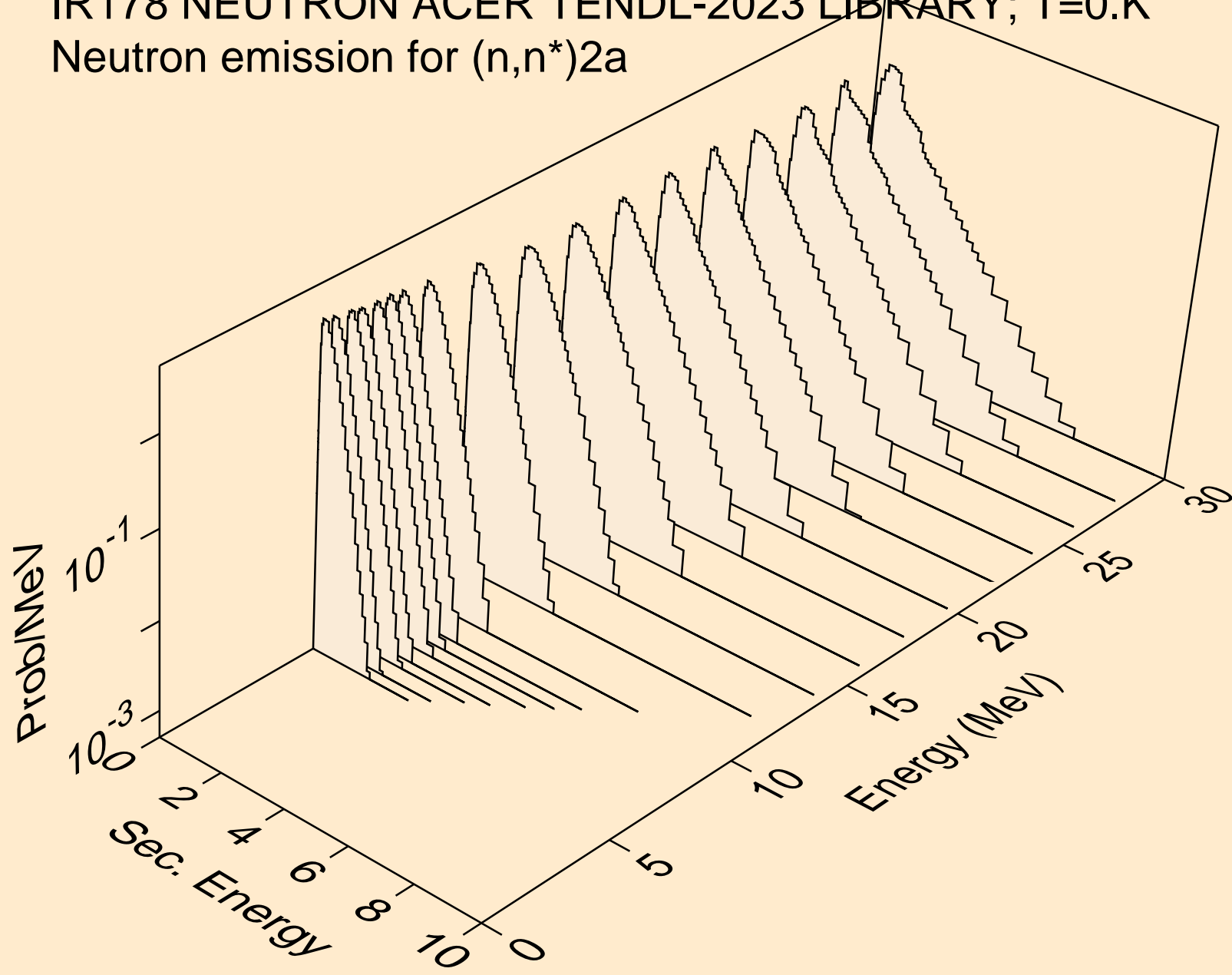
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3n)a



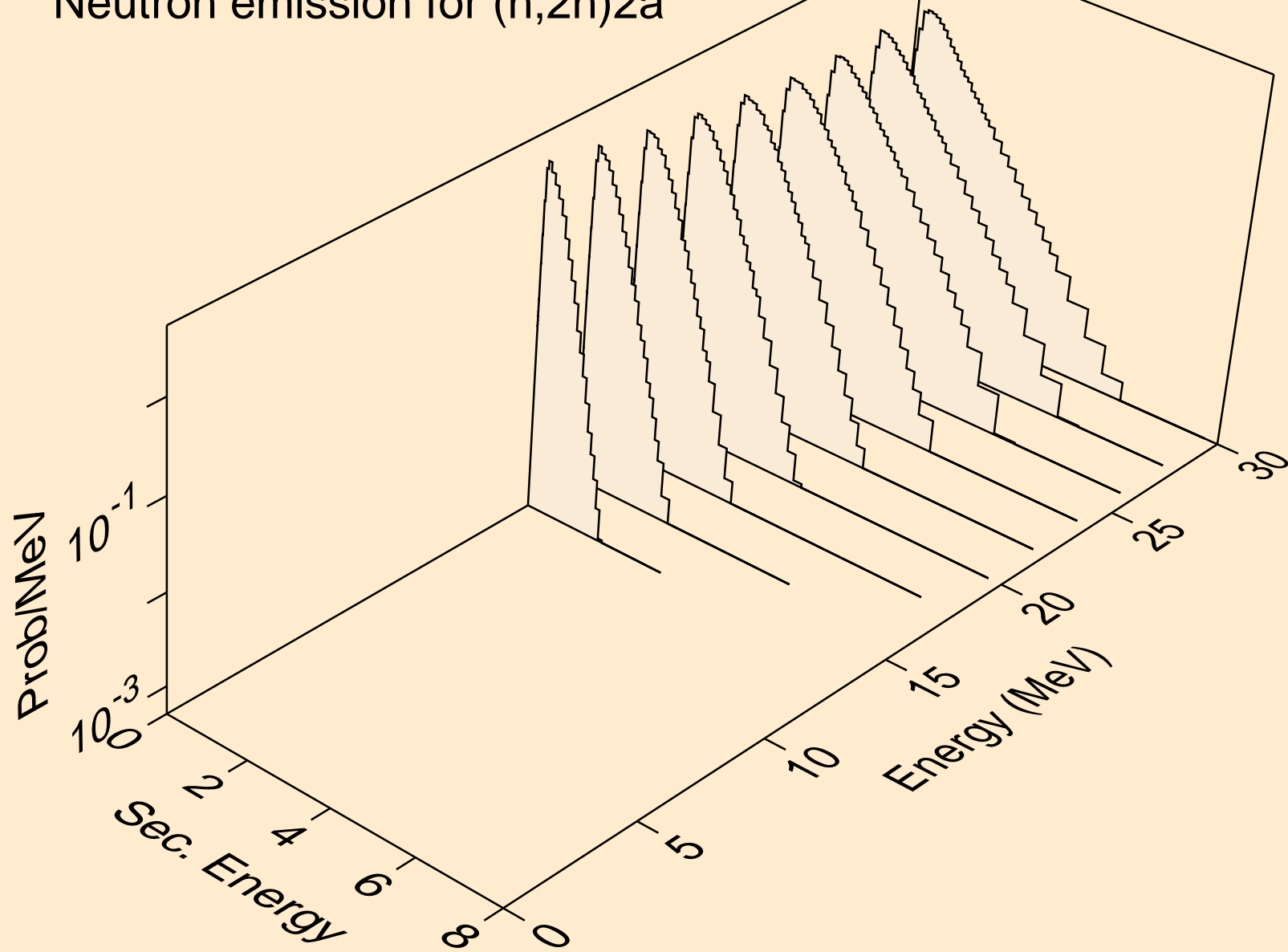
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)p



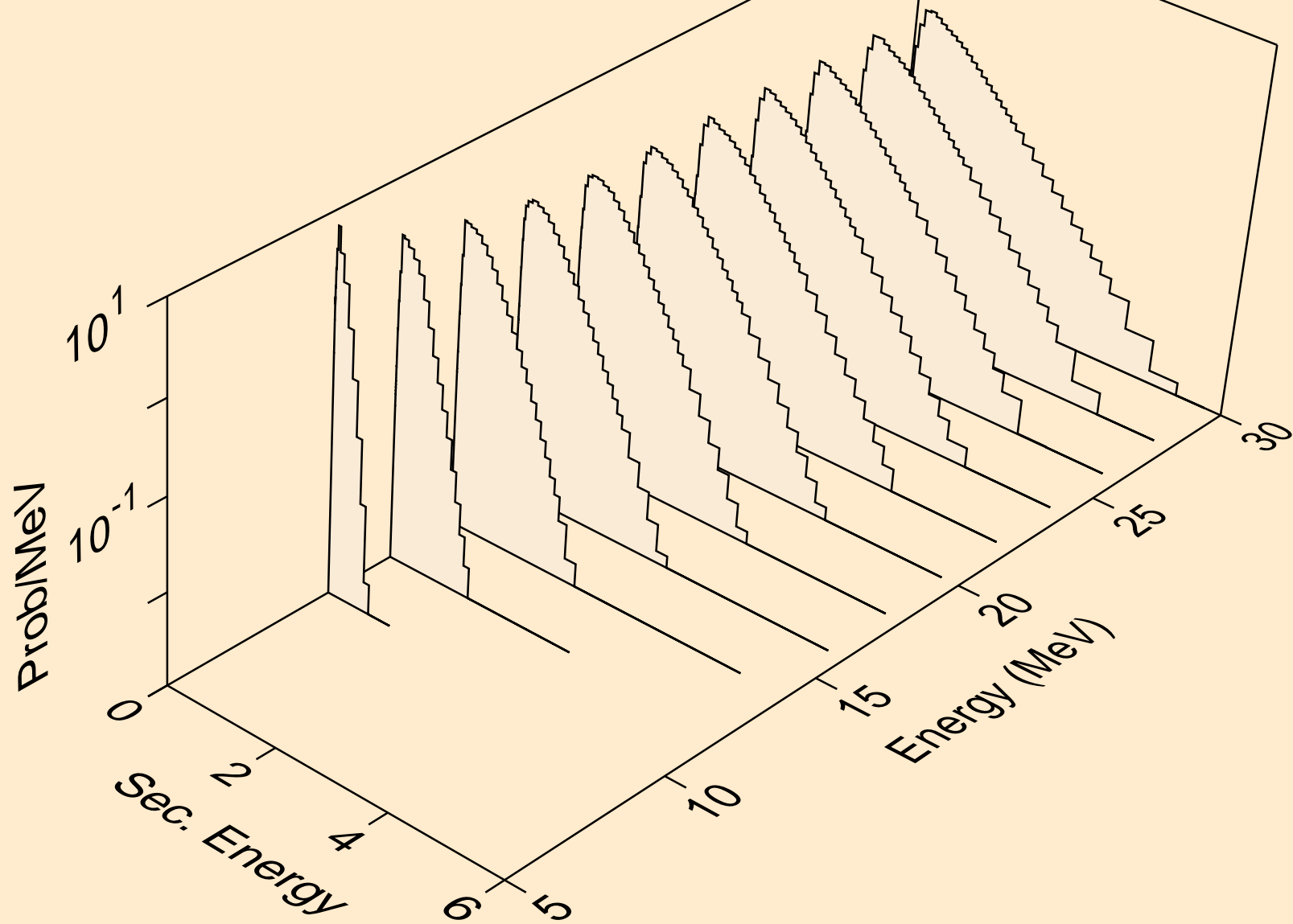
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)2a



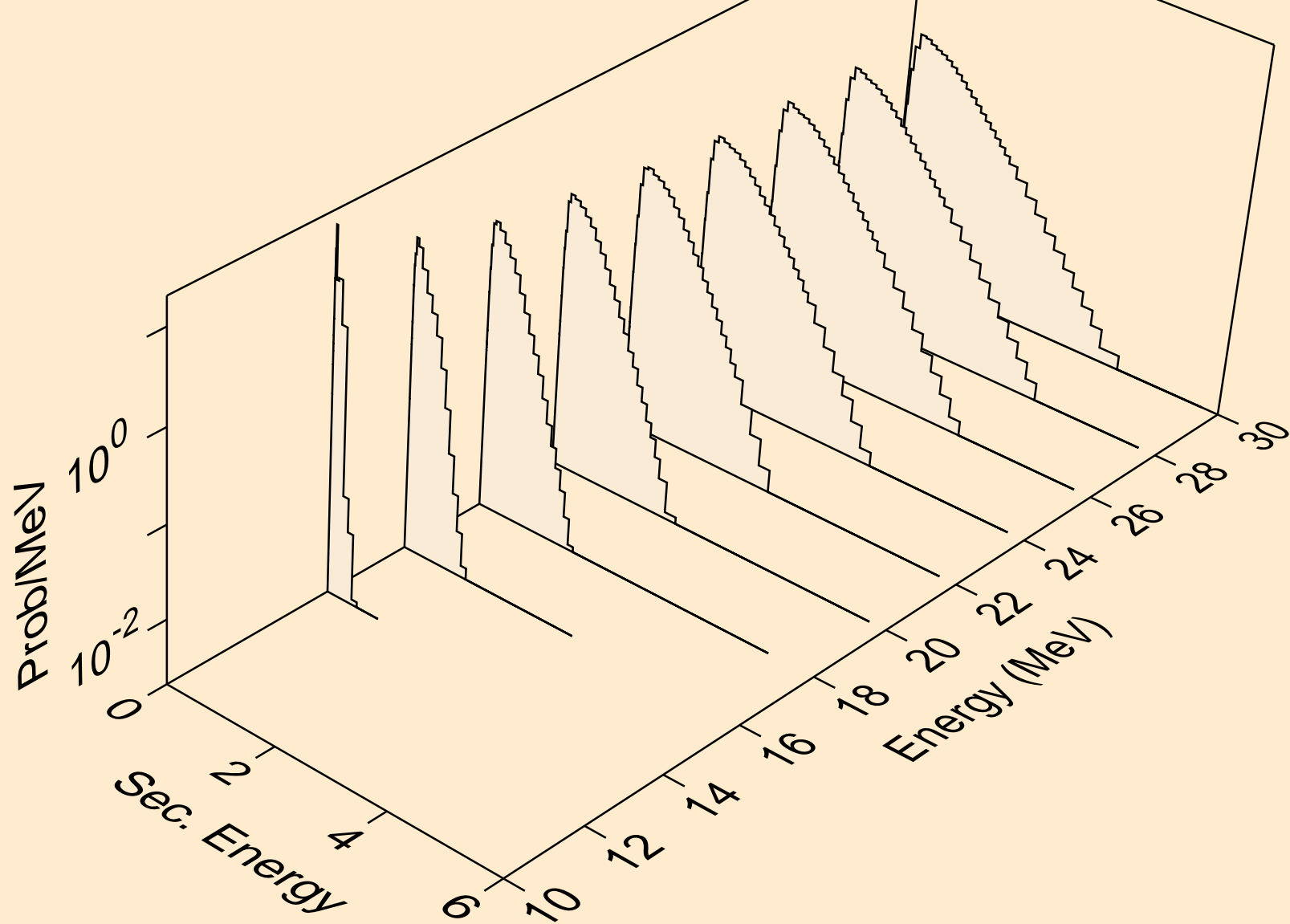
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)2a



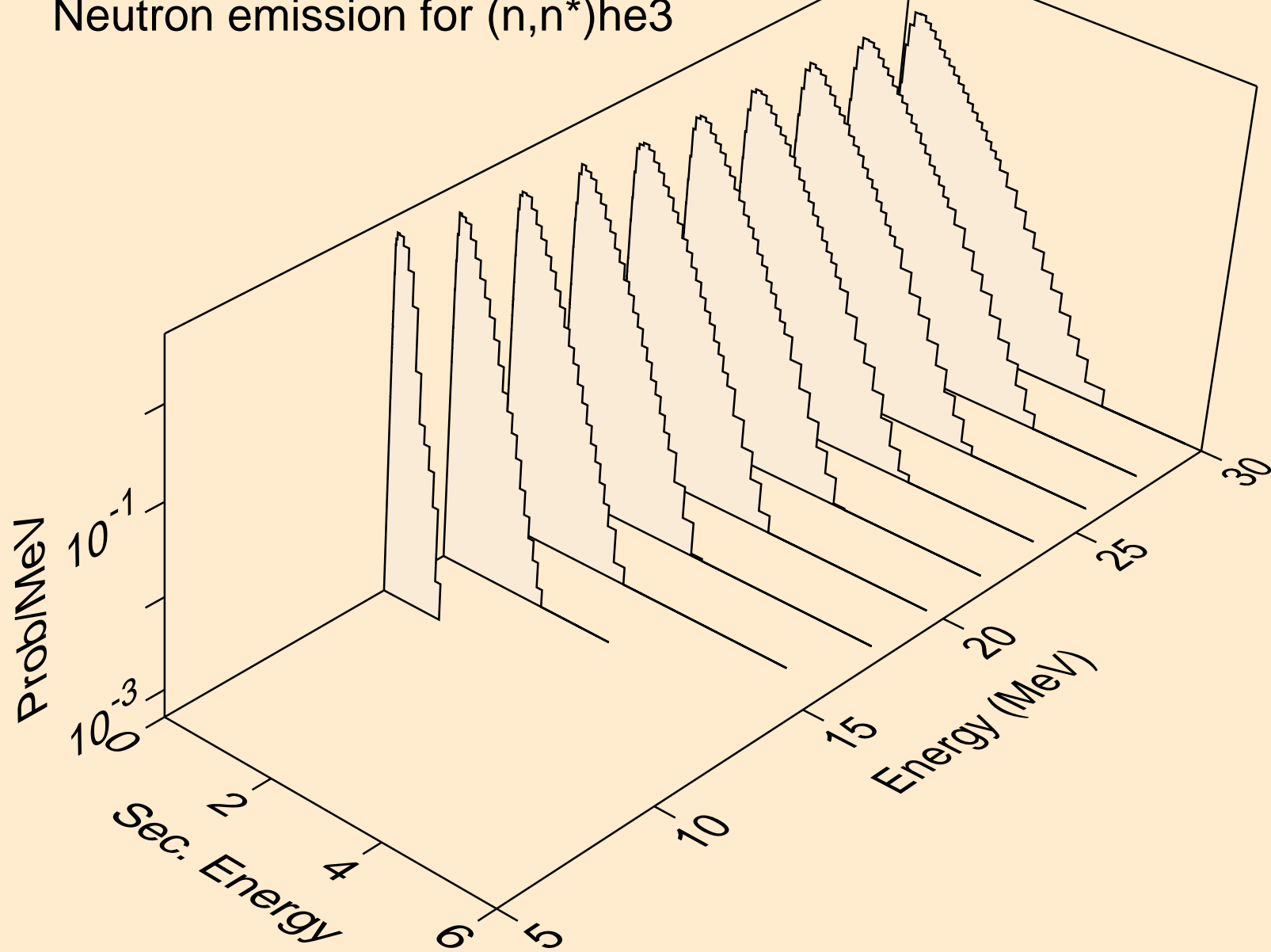
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)d



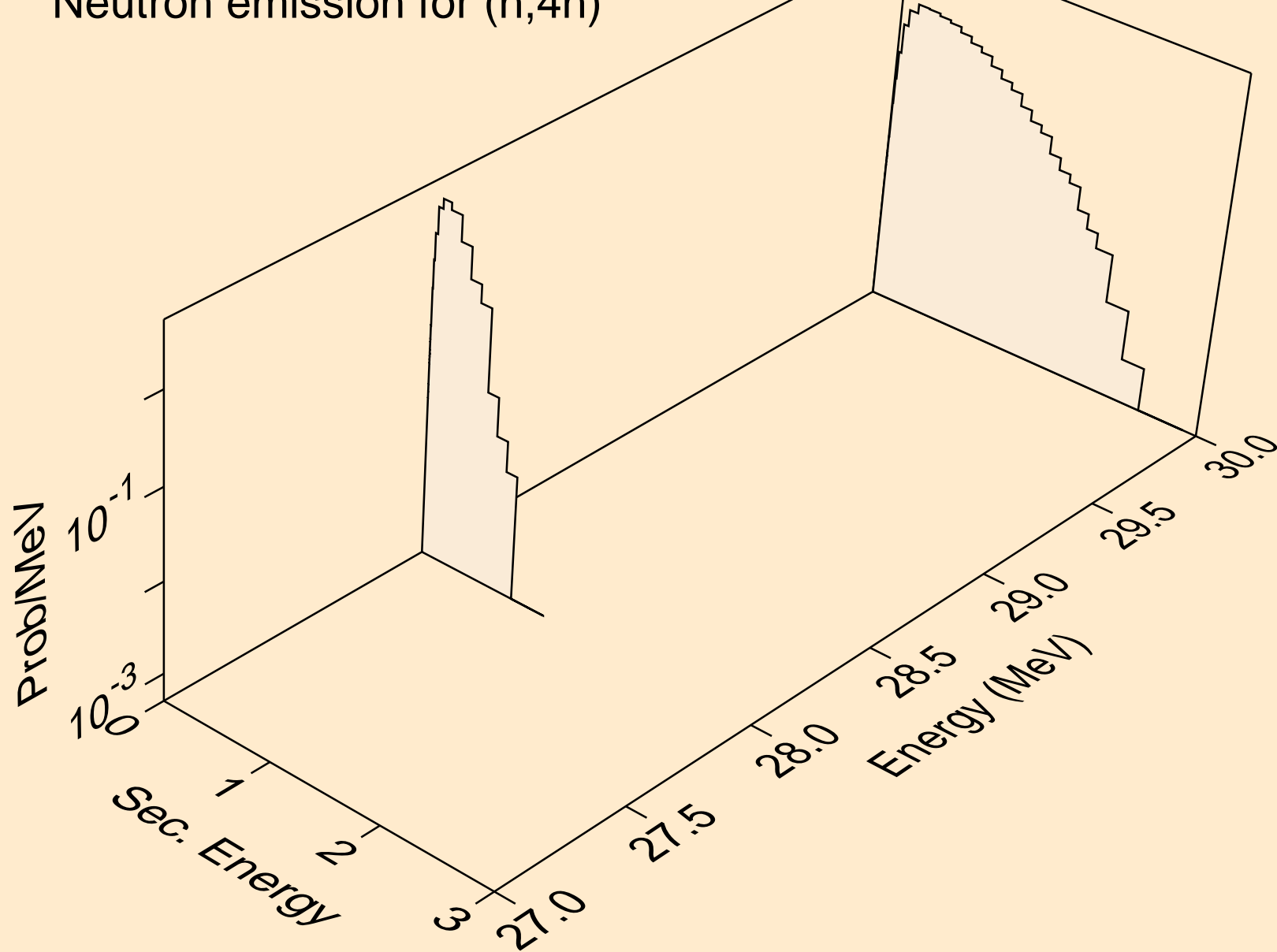
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)t



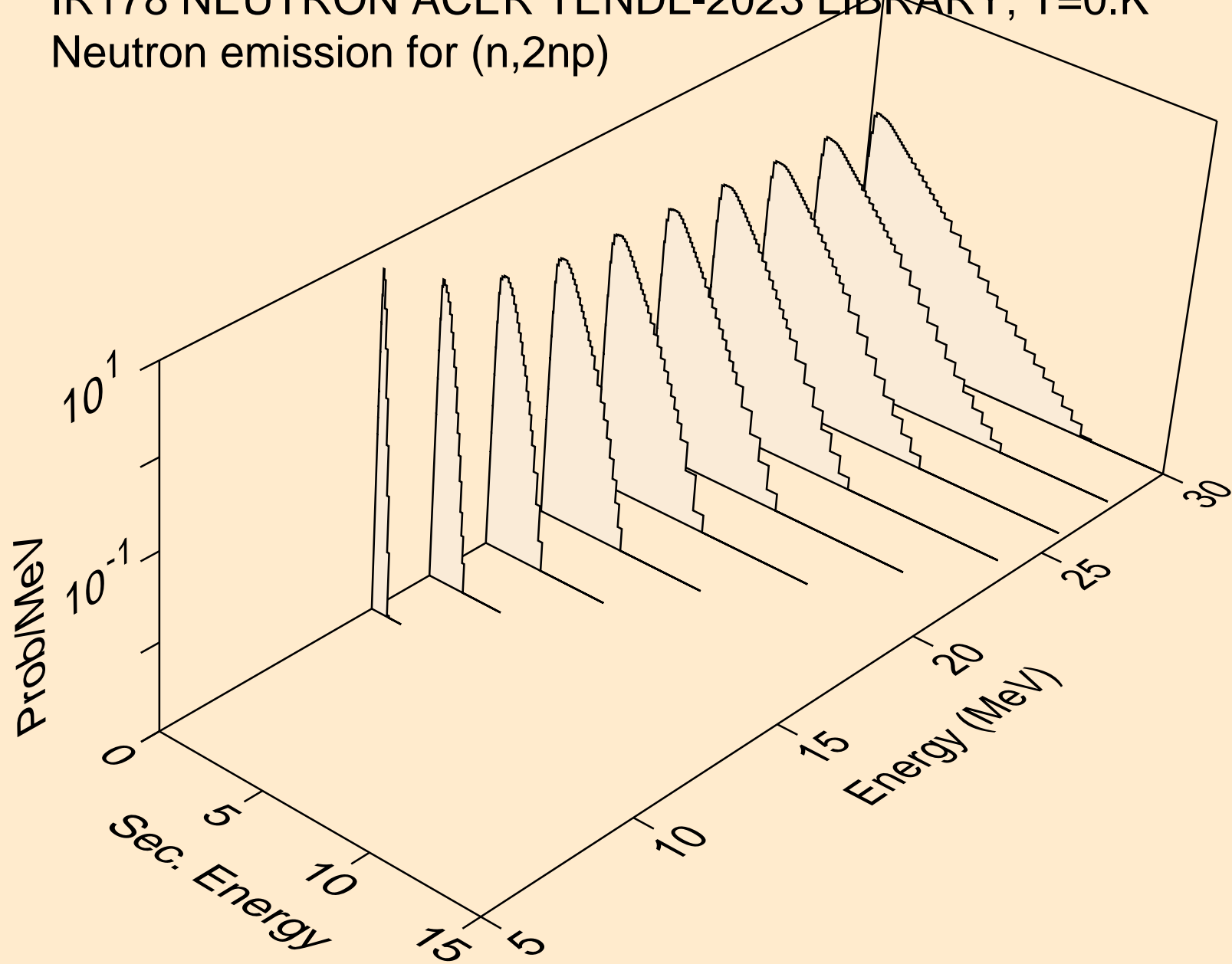
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)he3



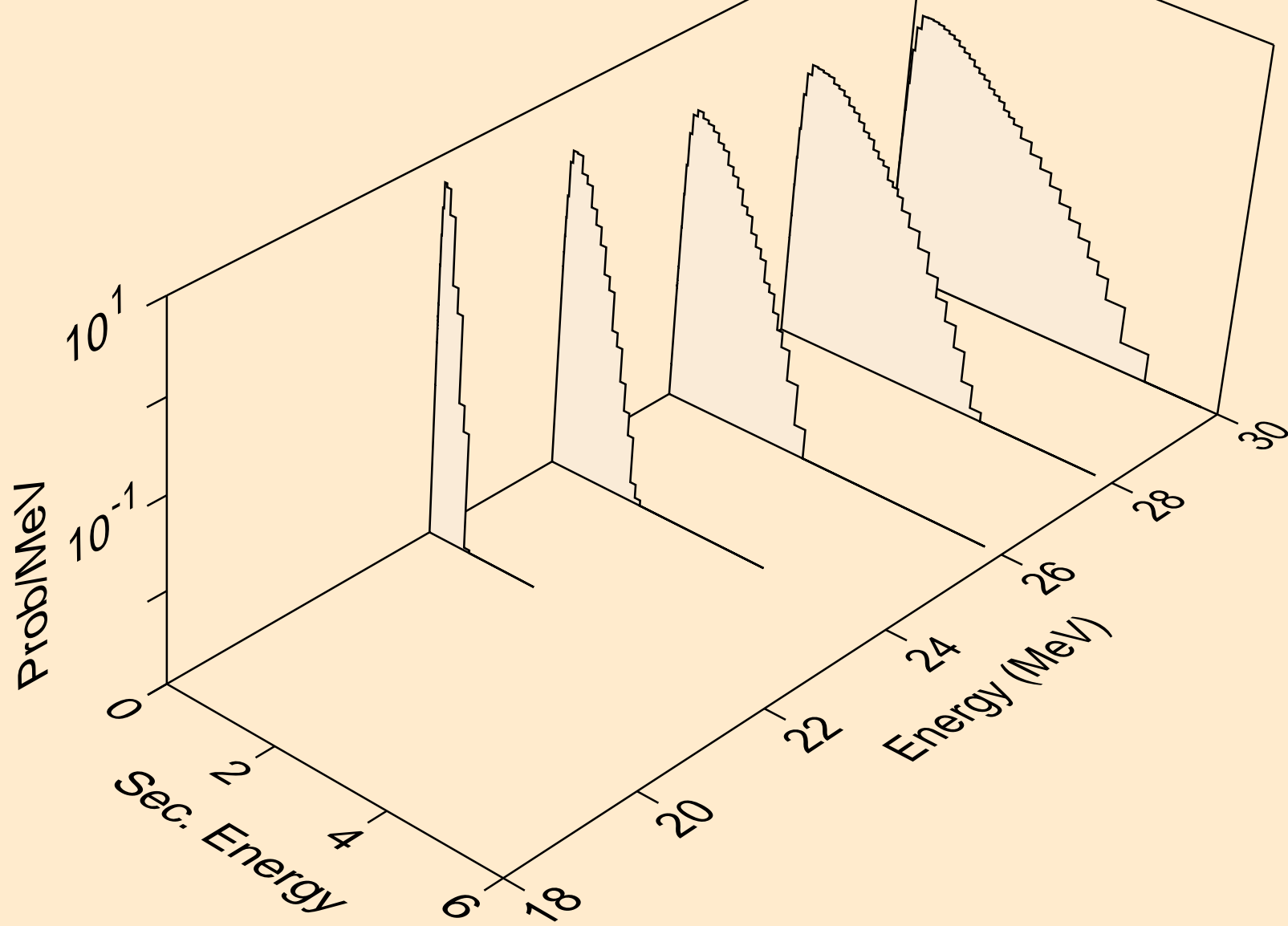
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,4n)



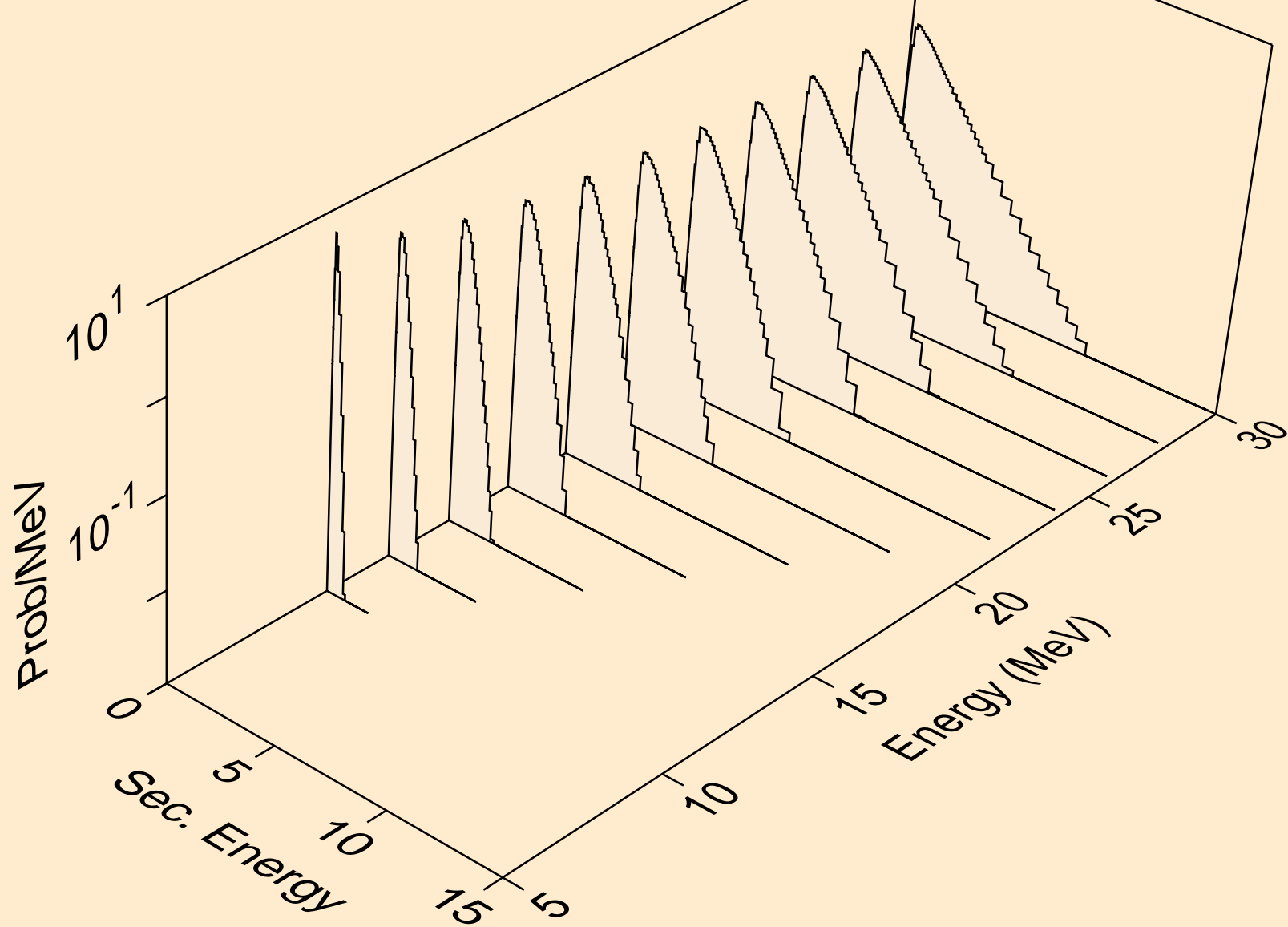
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2np)



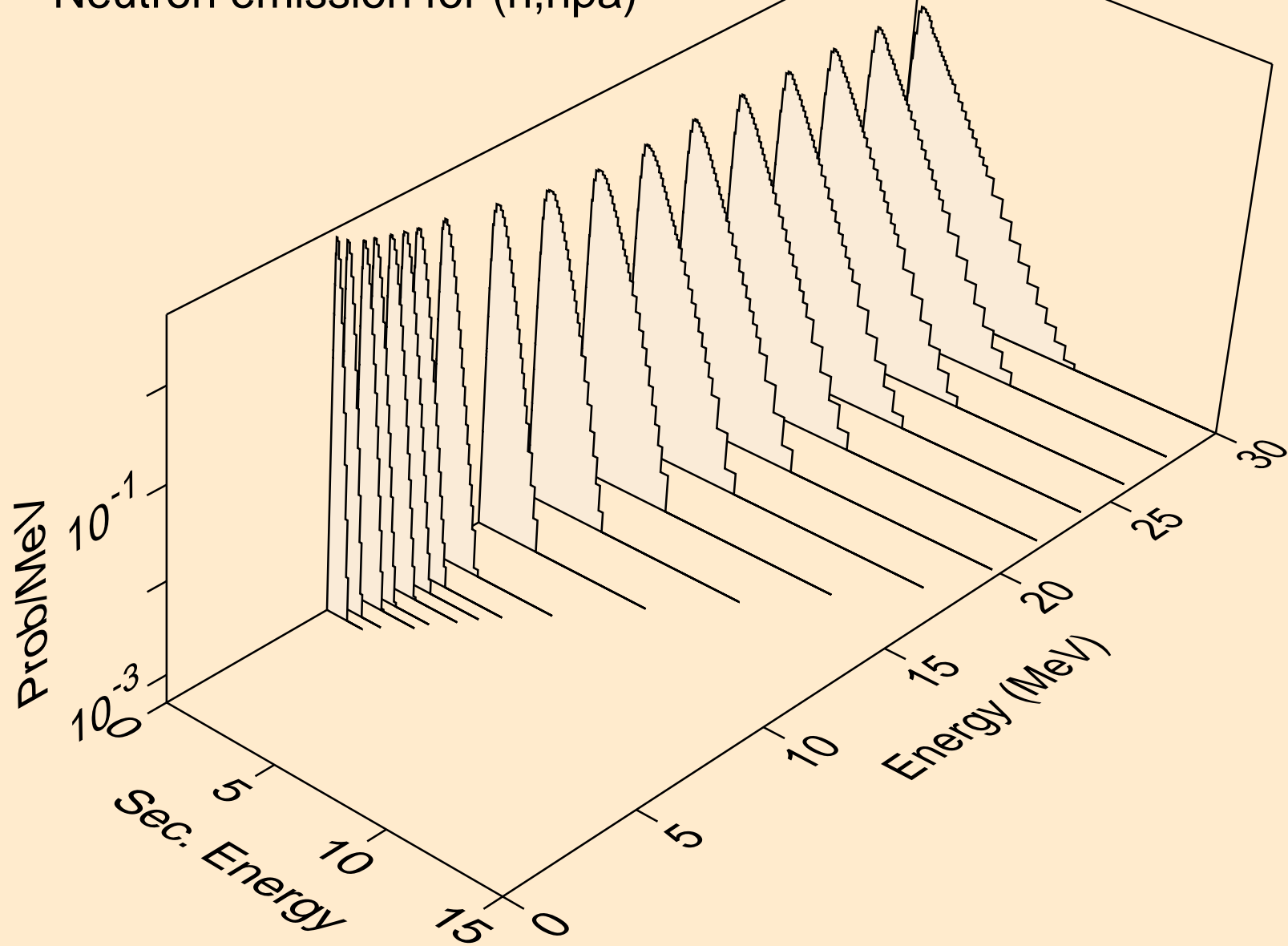
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3np)



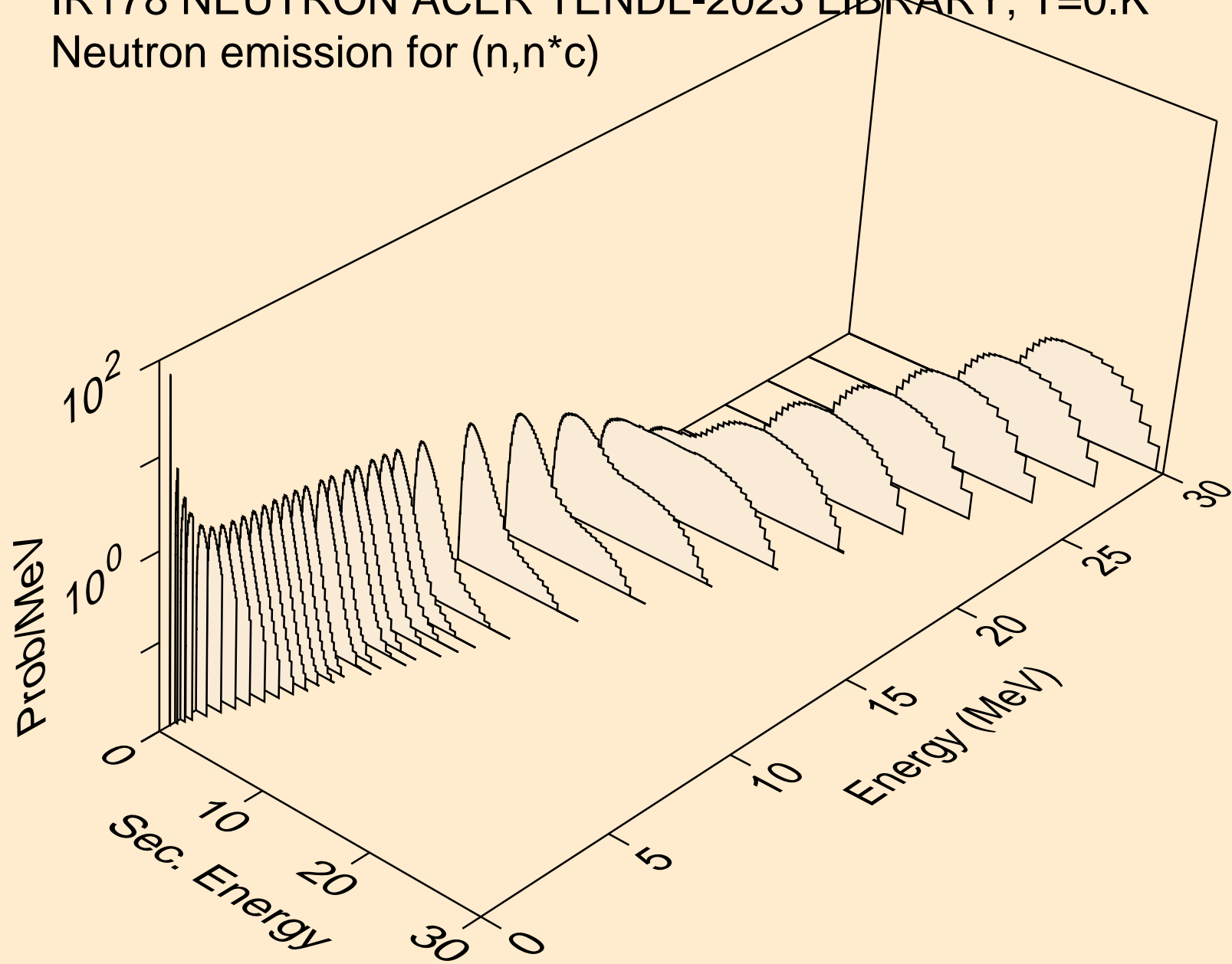
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n2p)



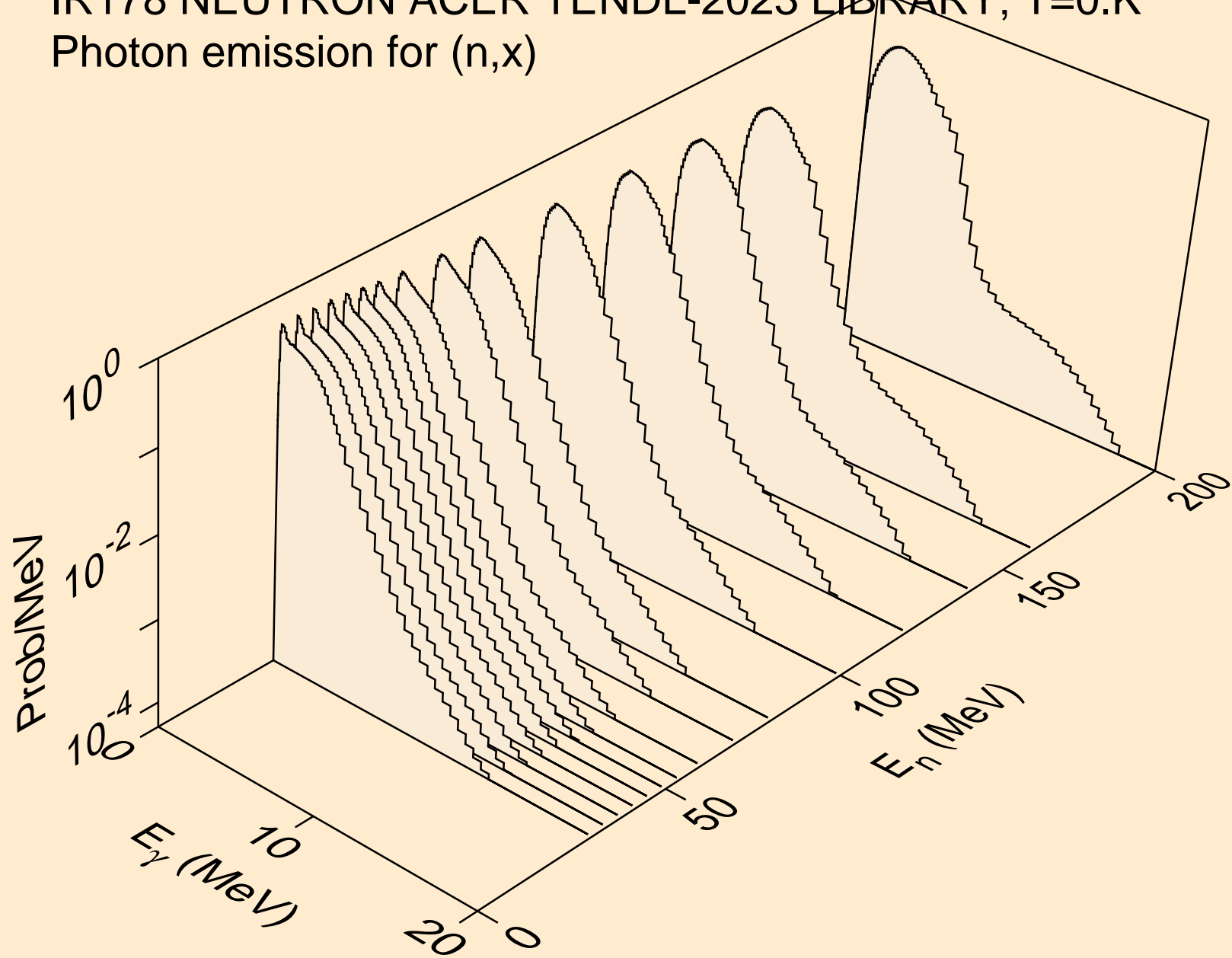
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,npa)



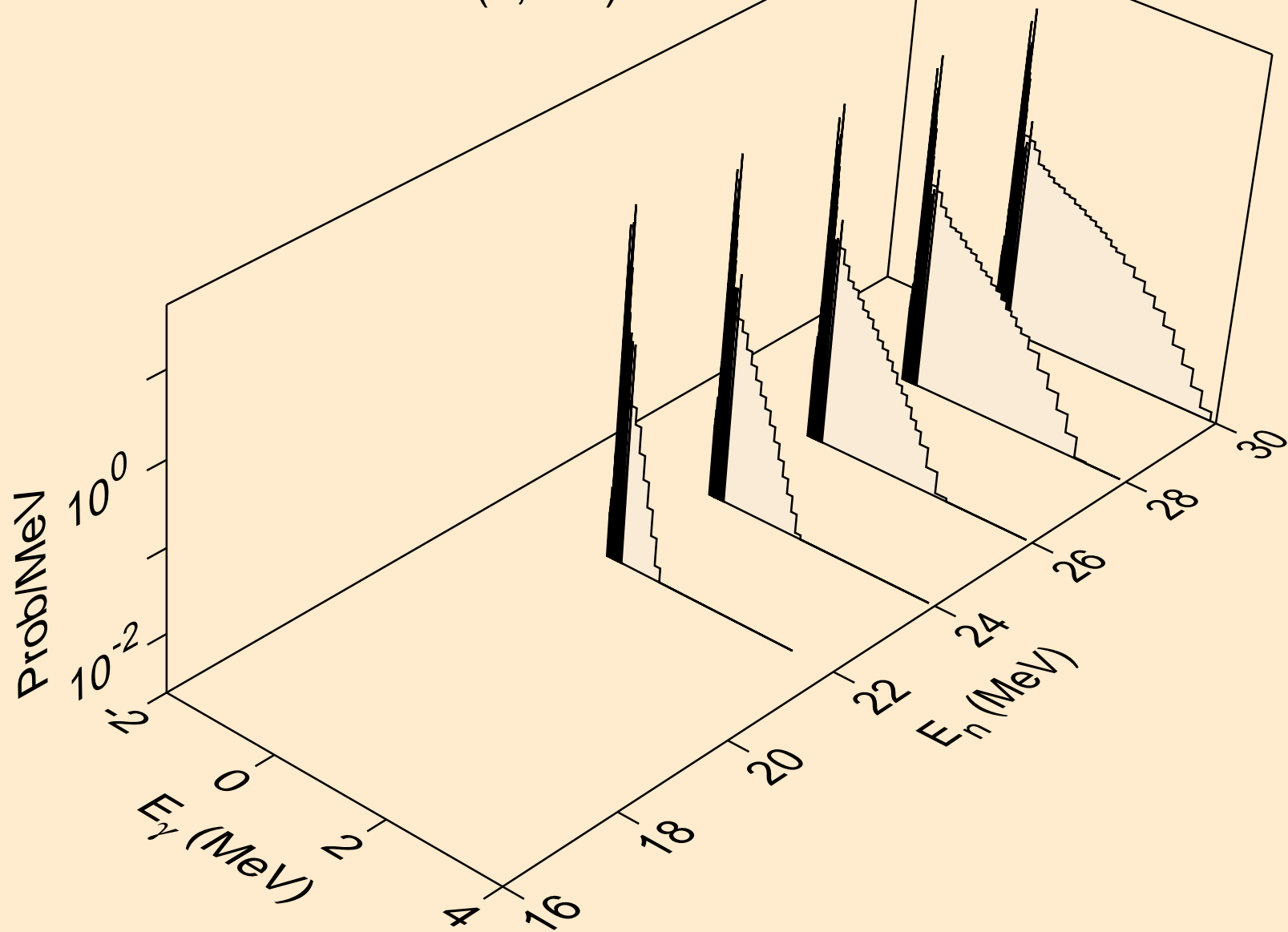
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*c)



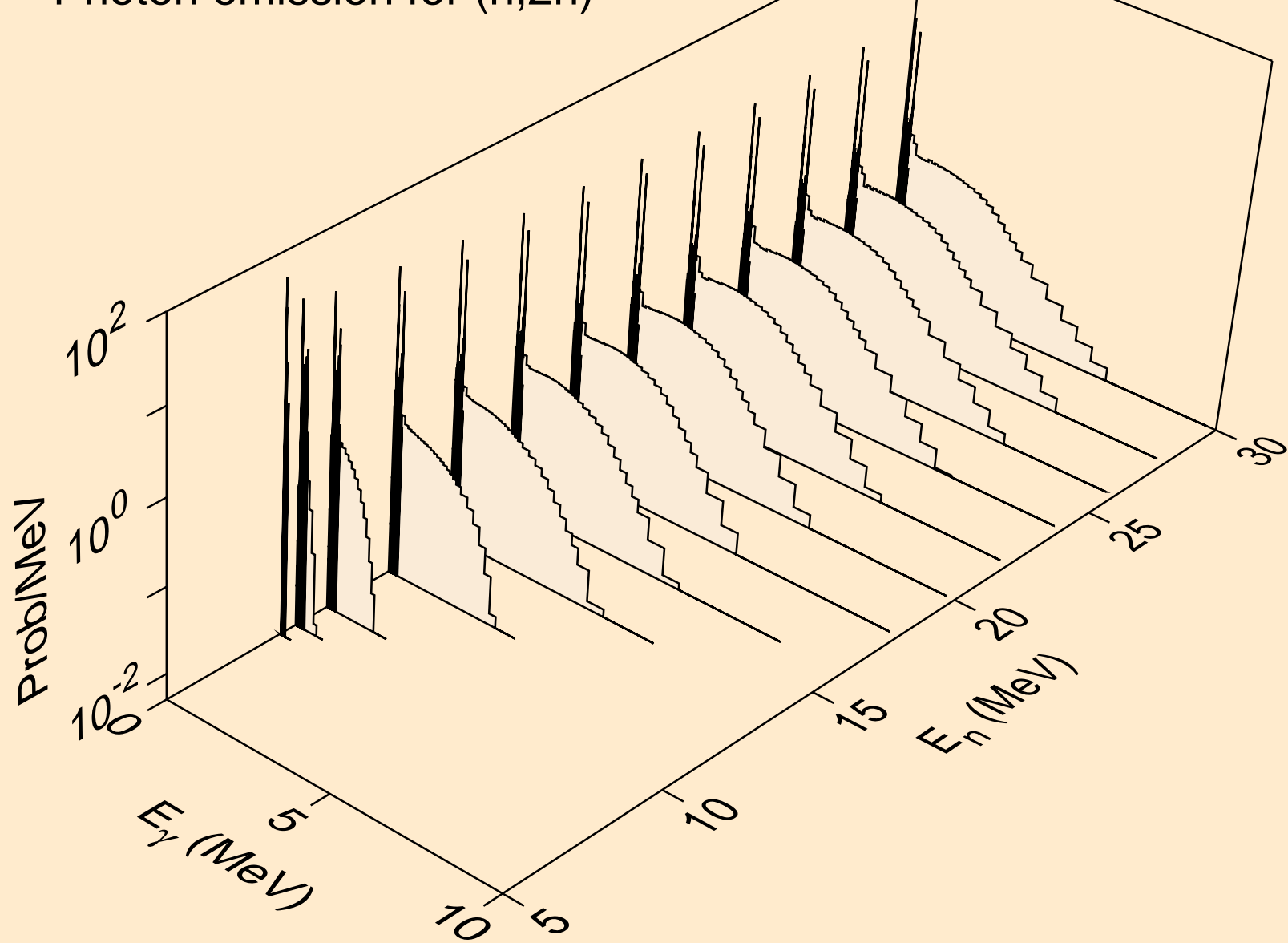
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,x)



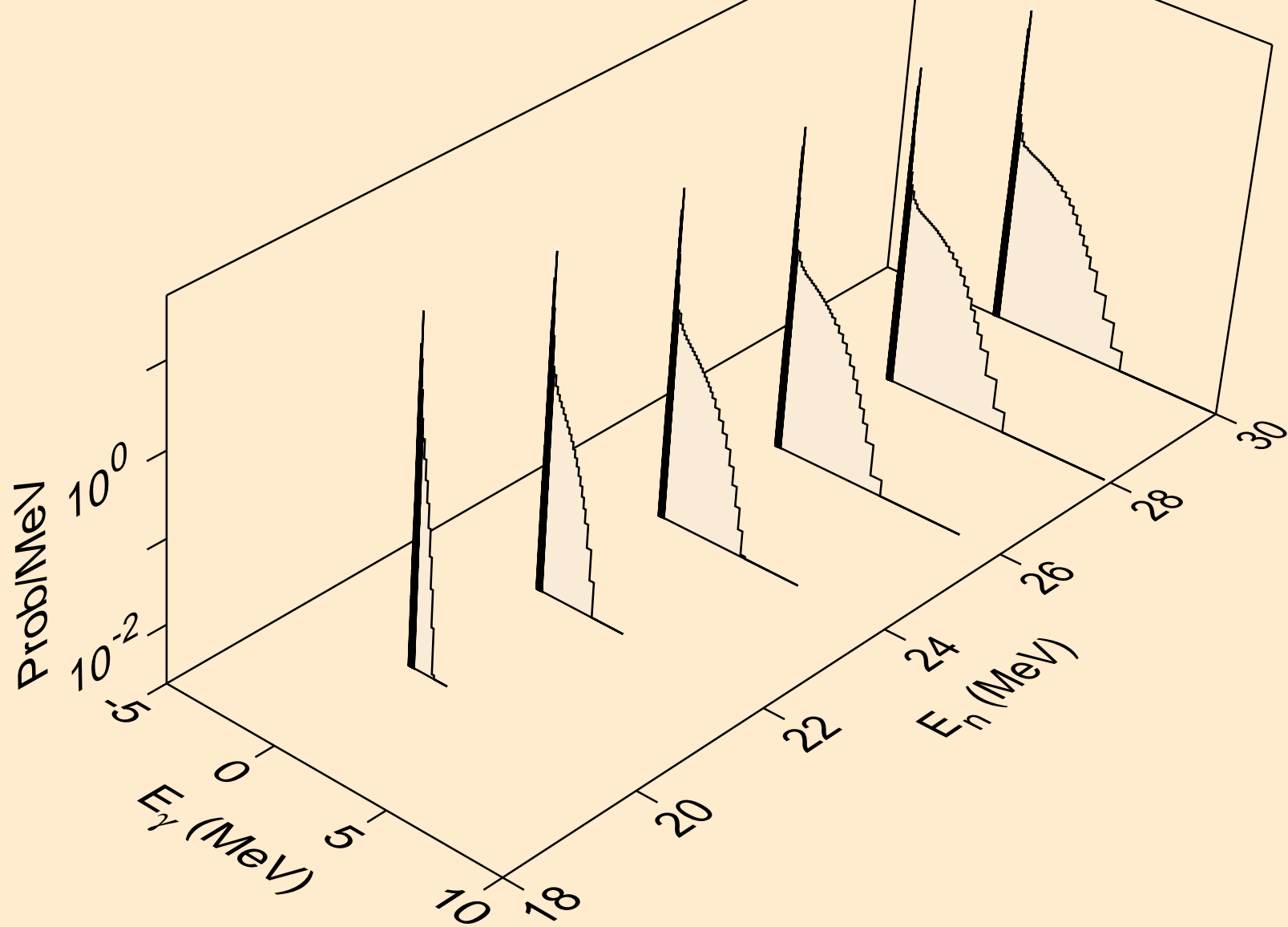
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2nd)



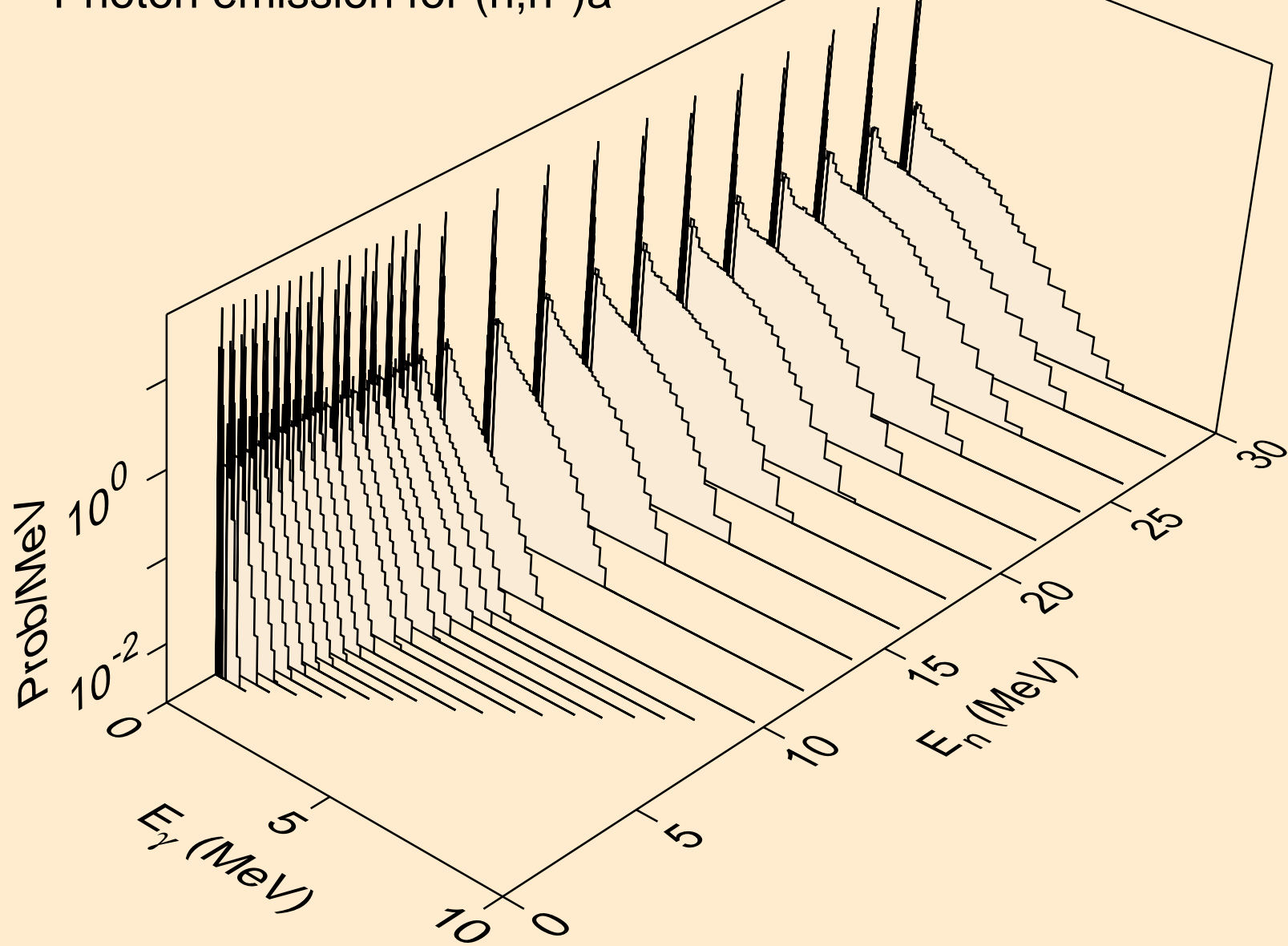
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)



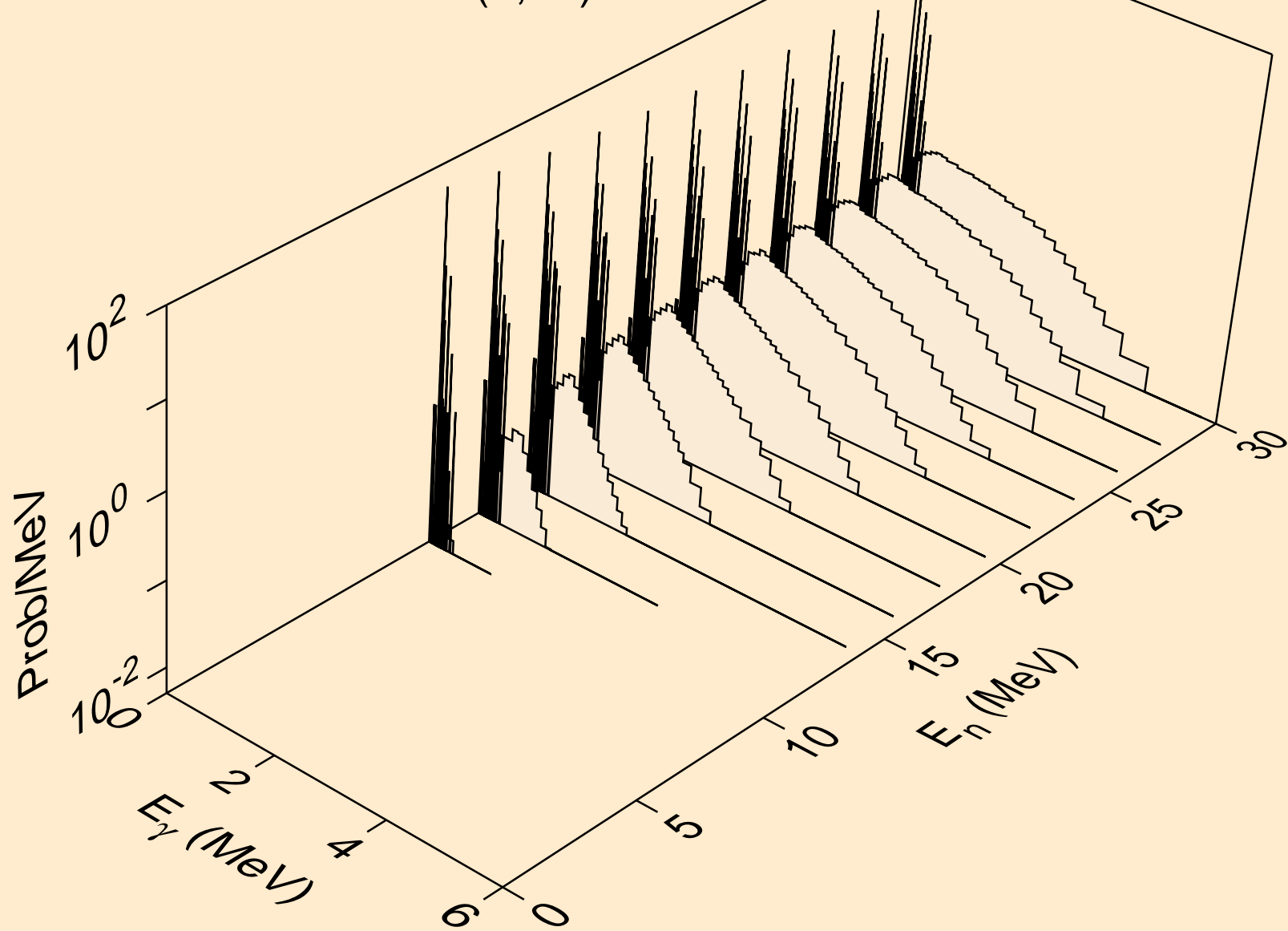
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)



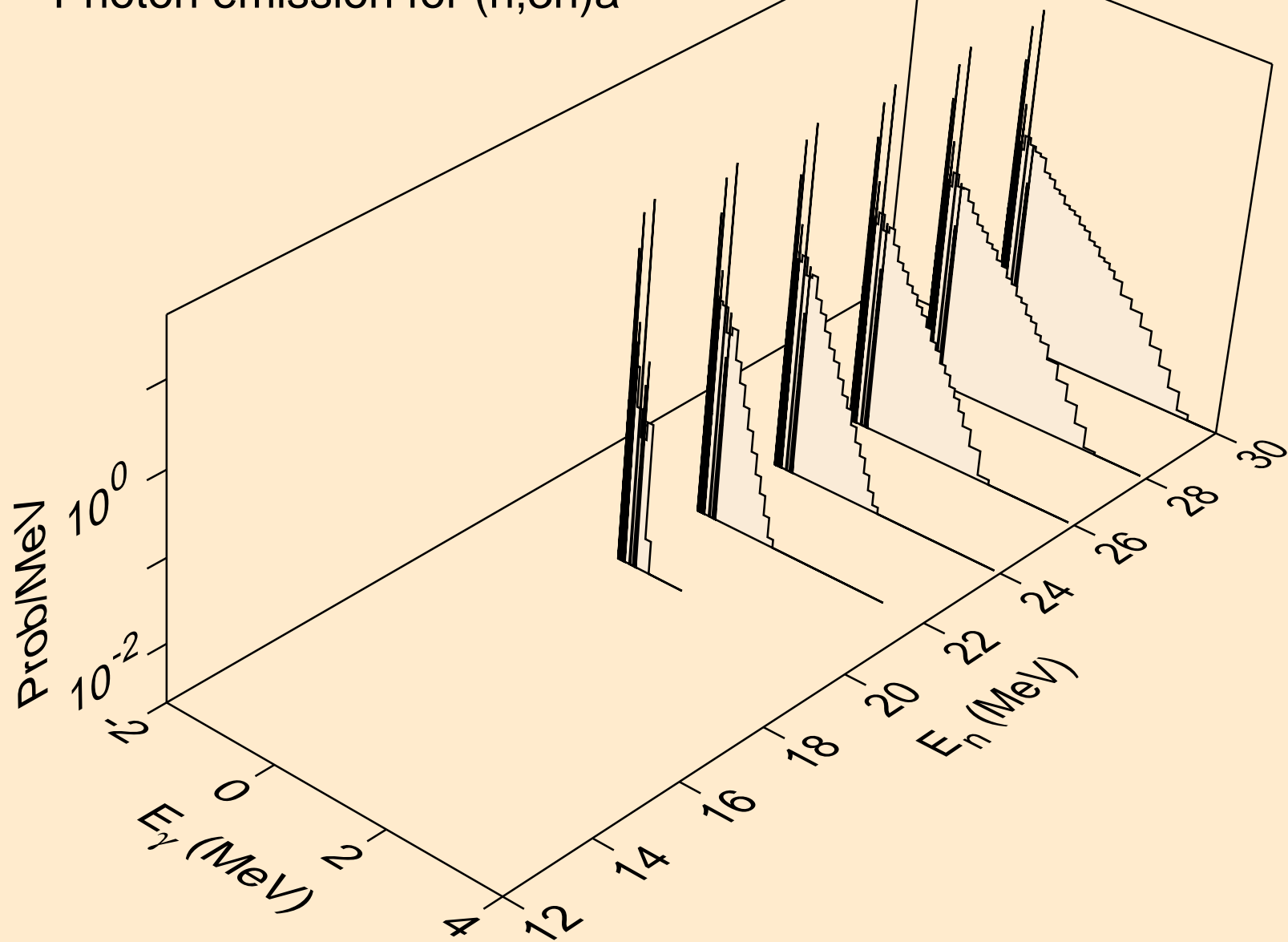
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)a



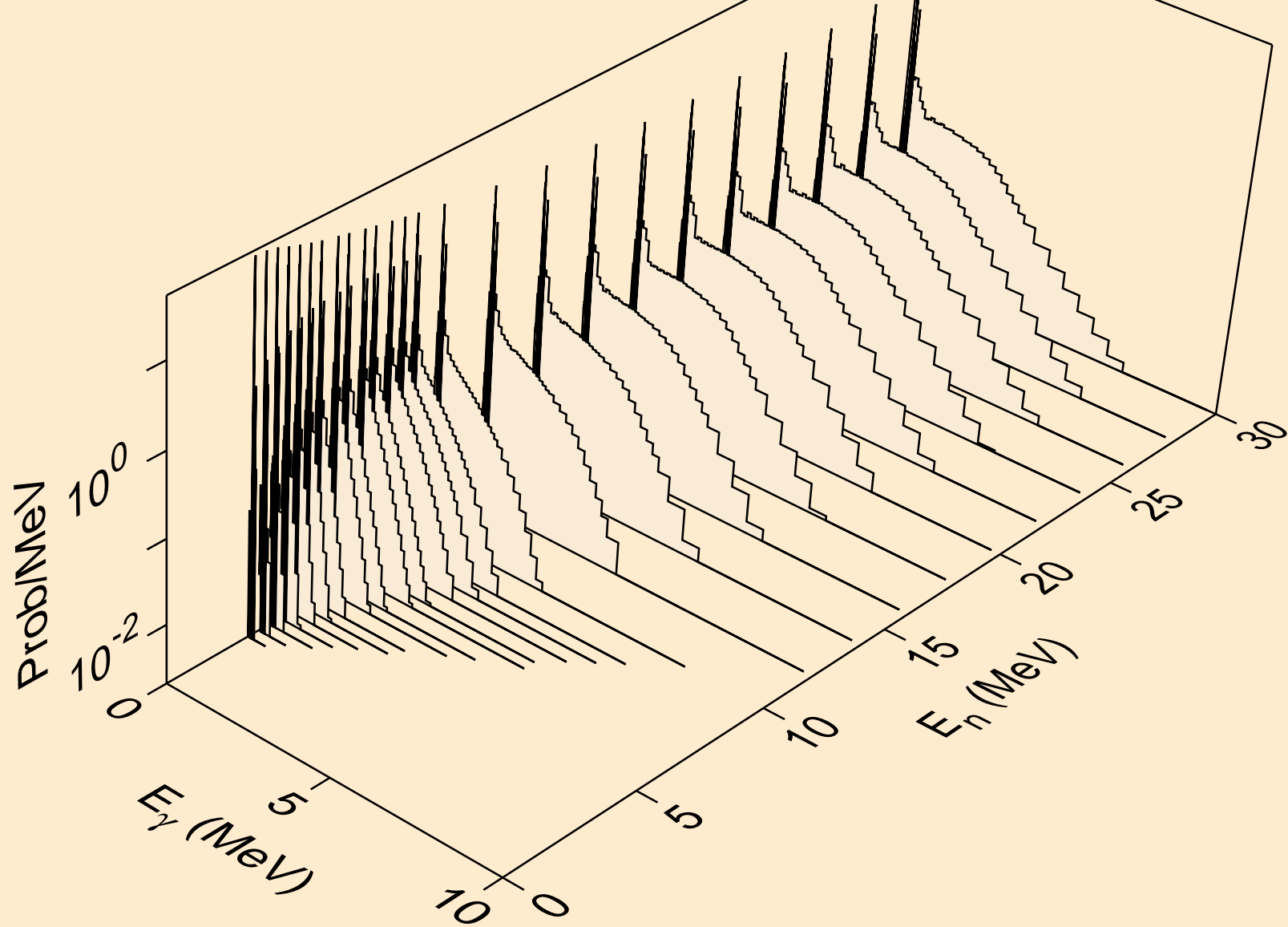
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a



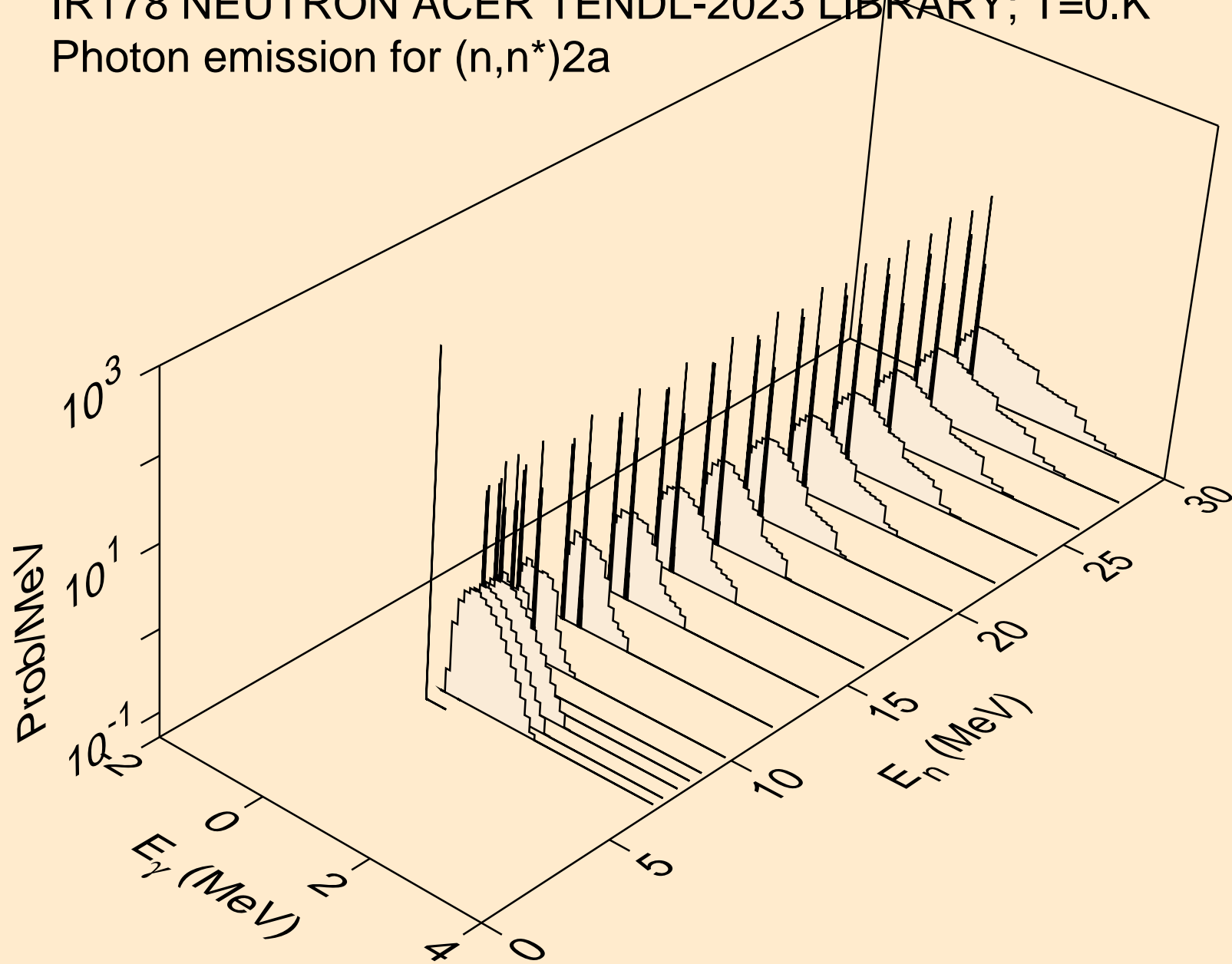
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3n)a



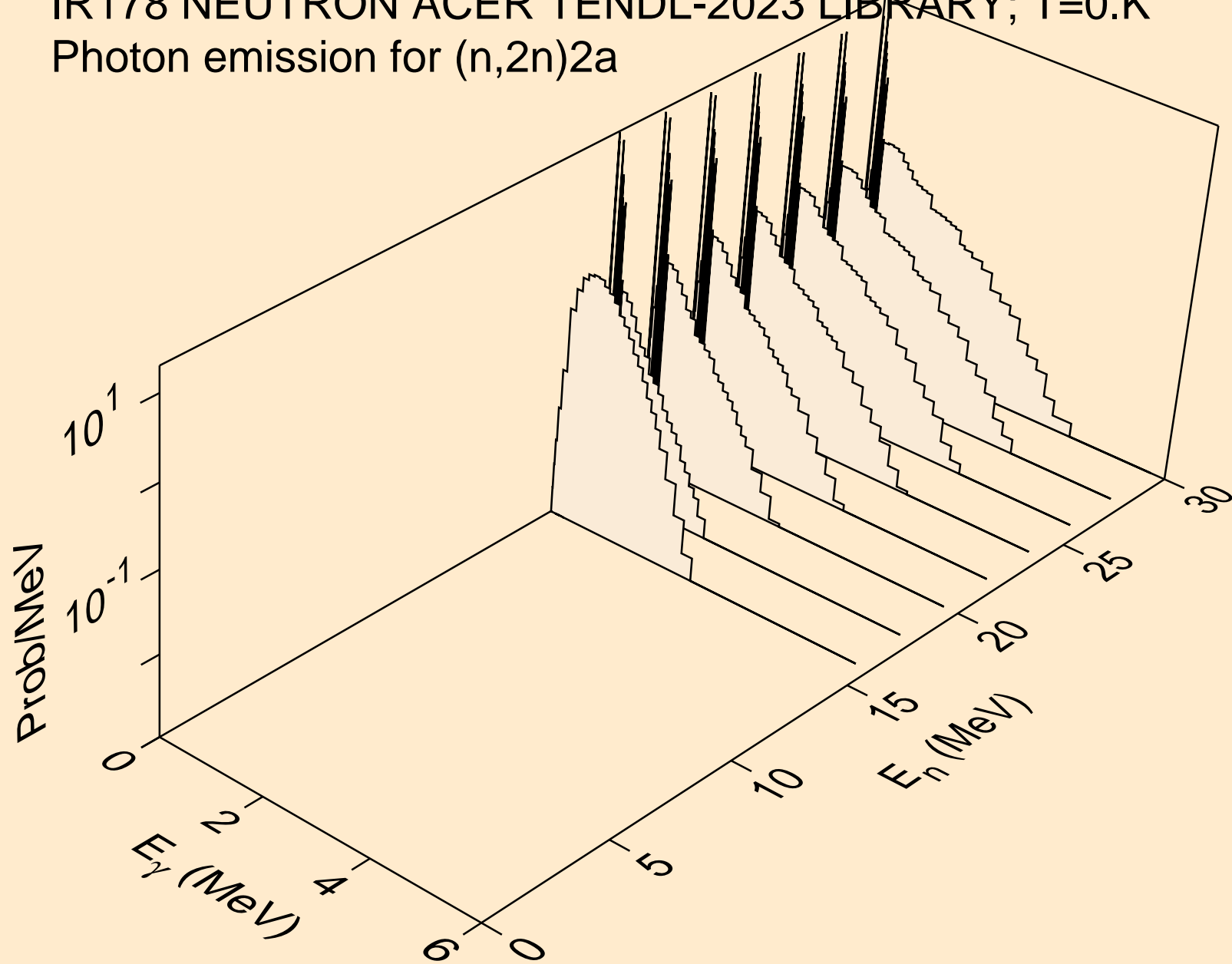
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p



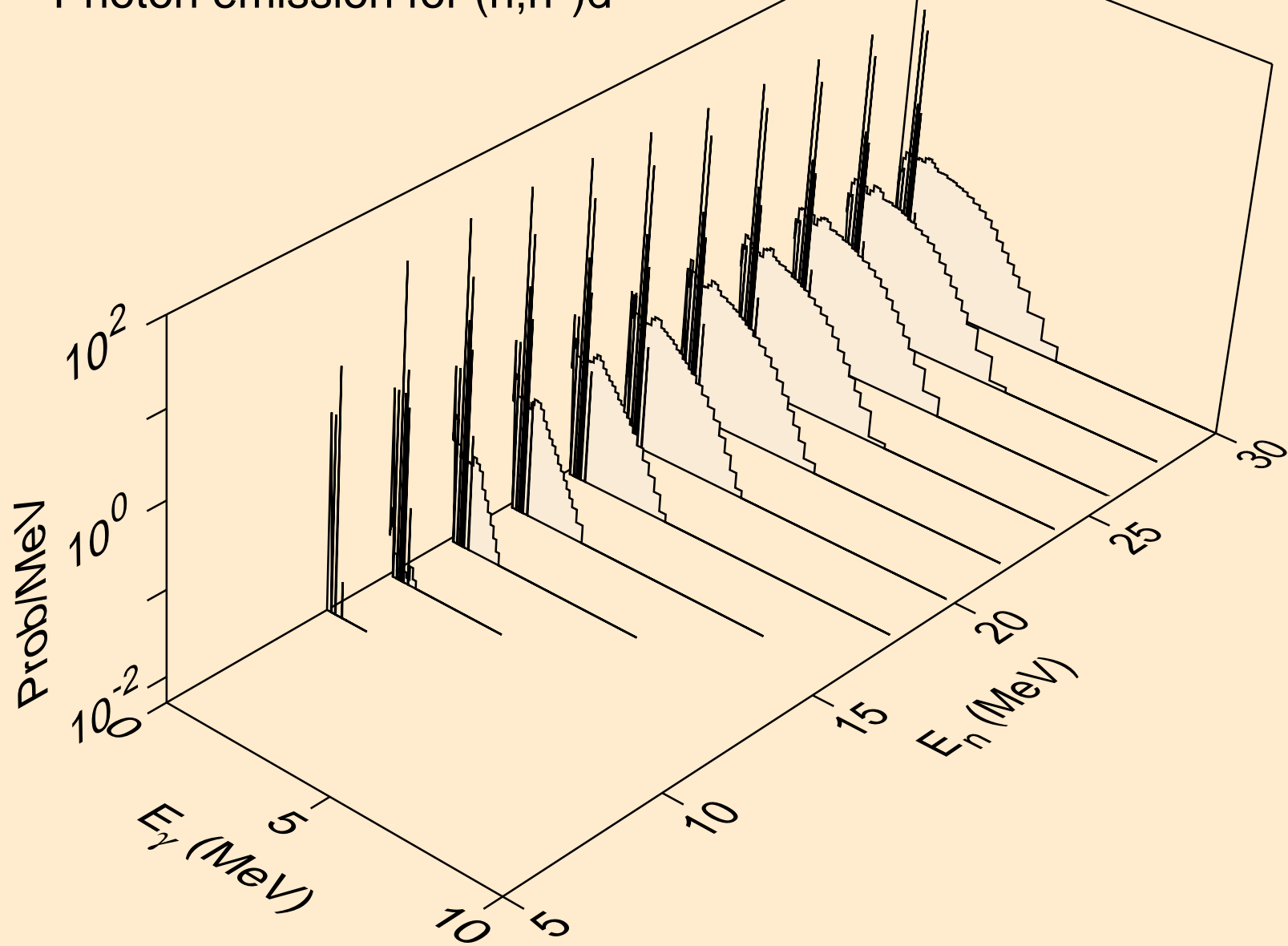
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)2a



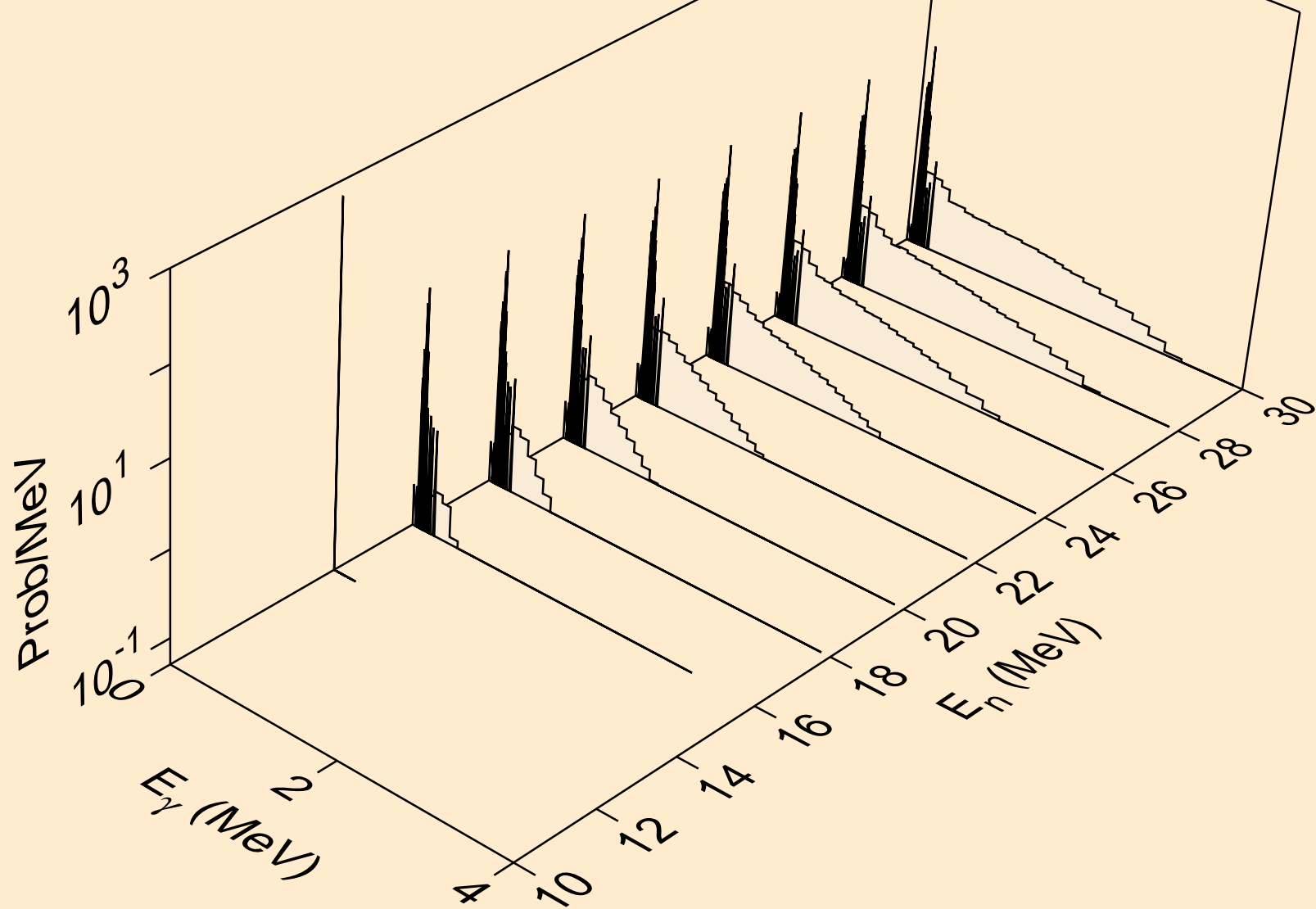
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)2a



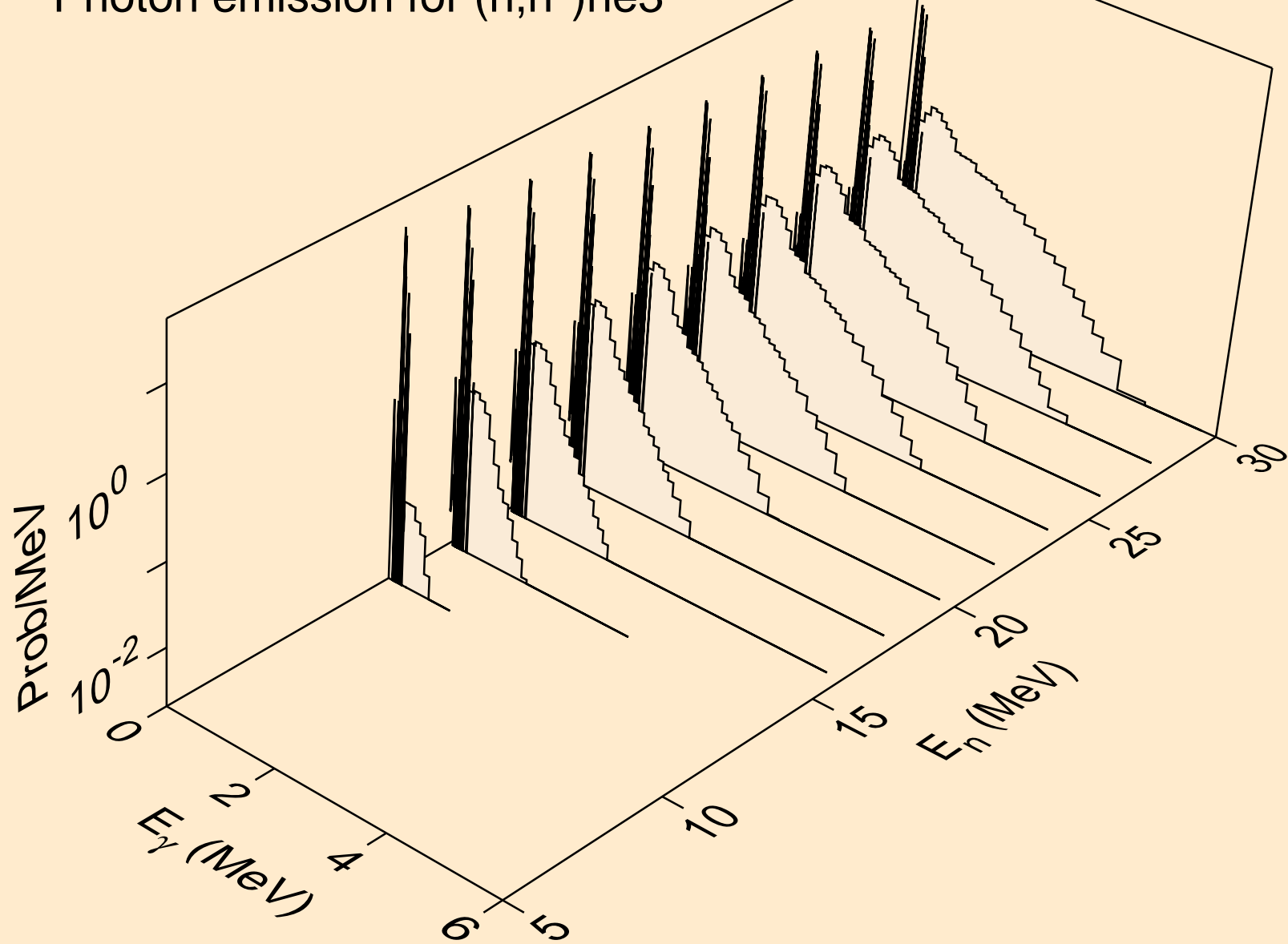
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d



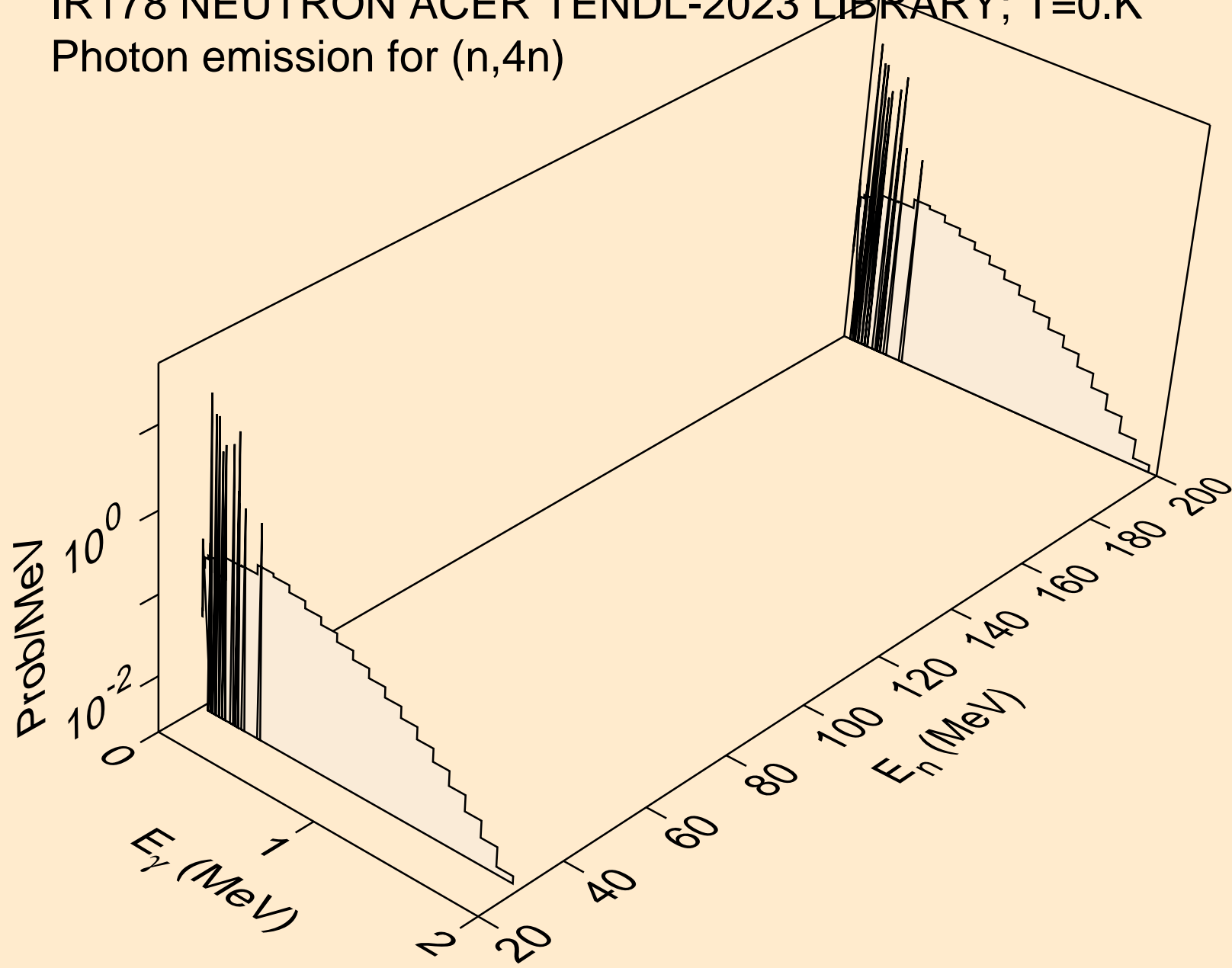
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)t



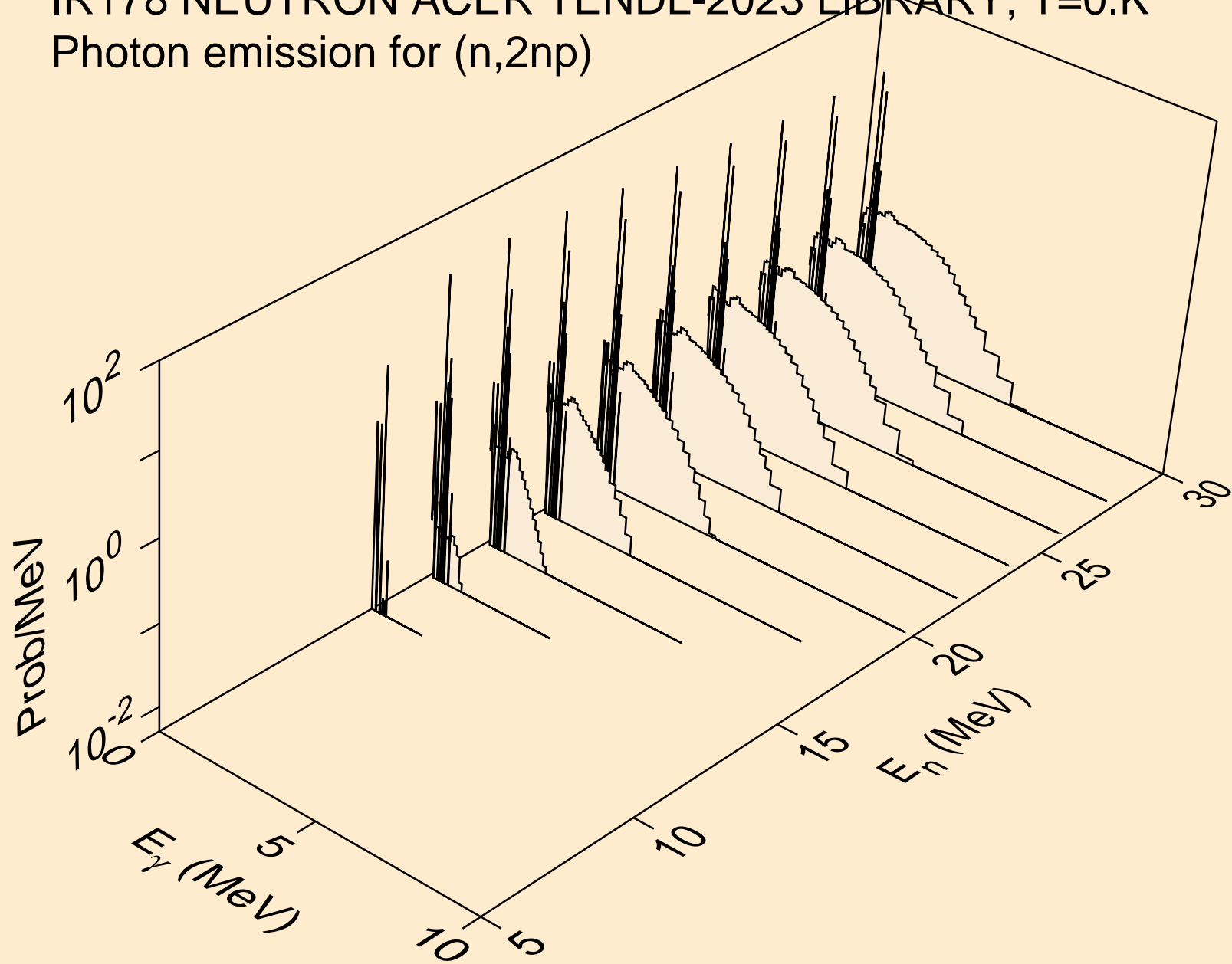
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)he3



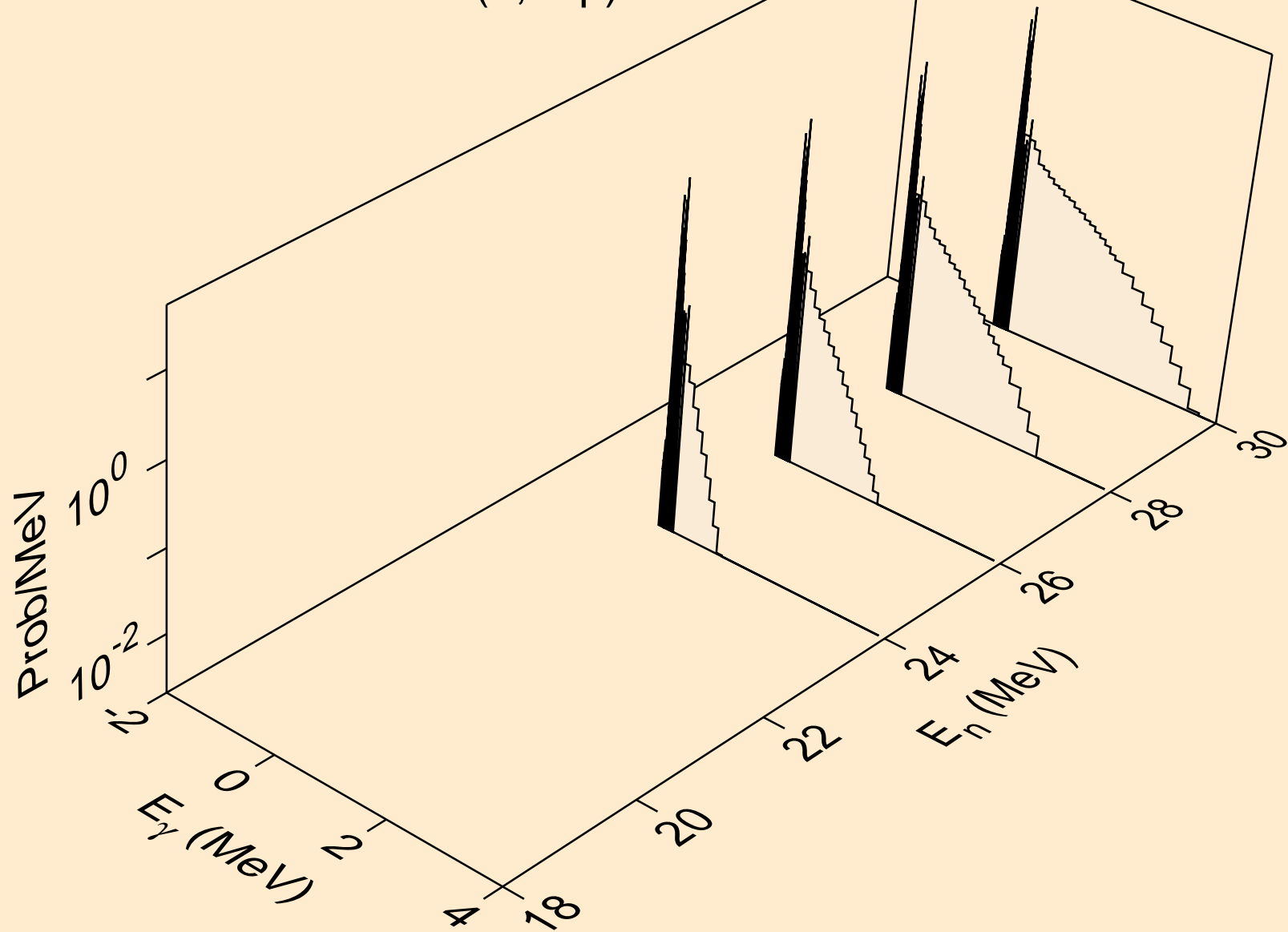
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,4n)



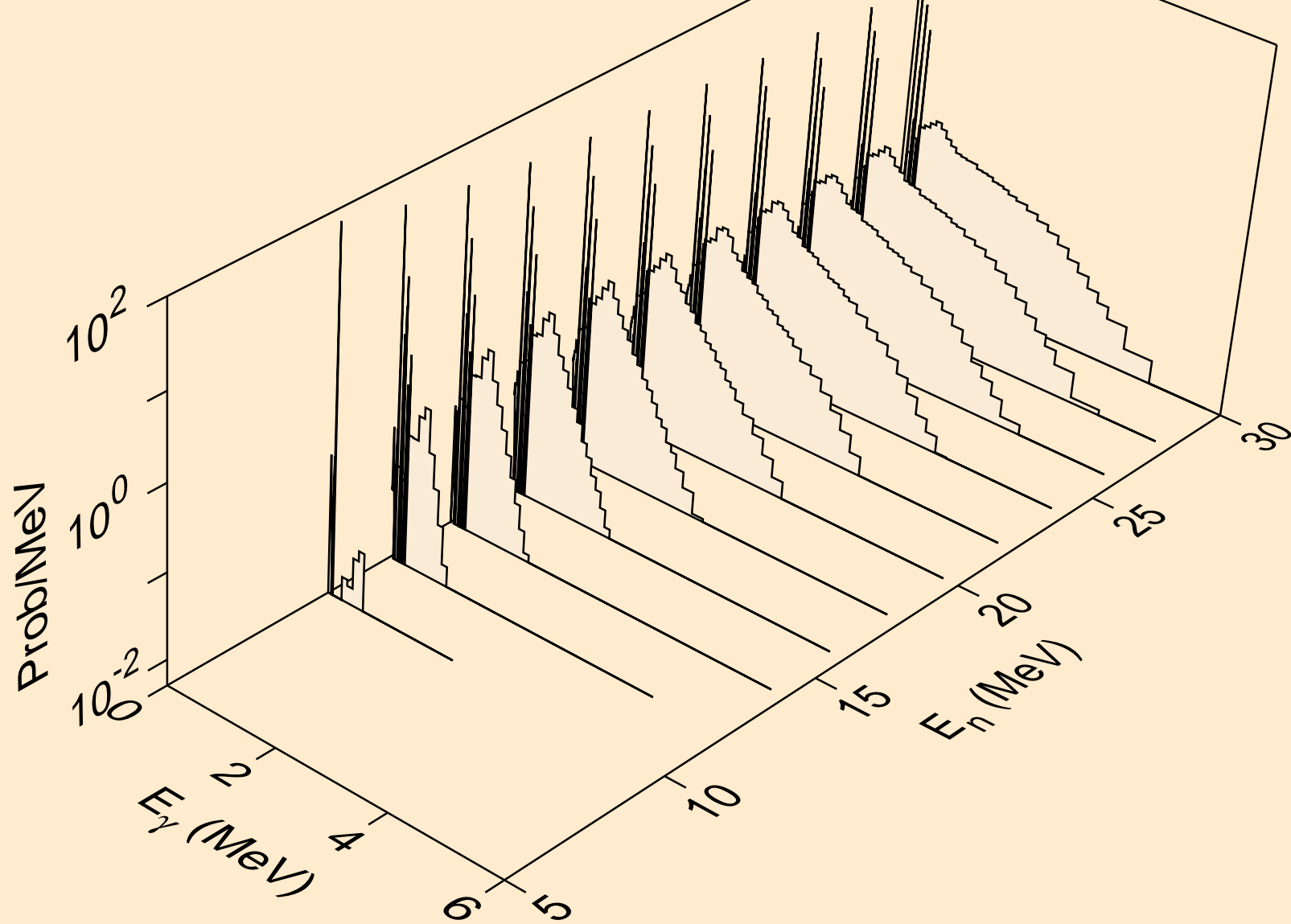
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)



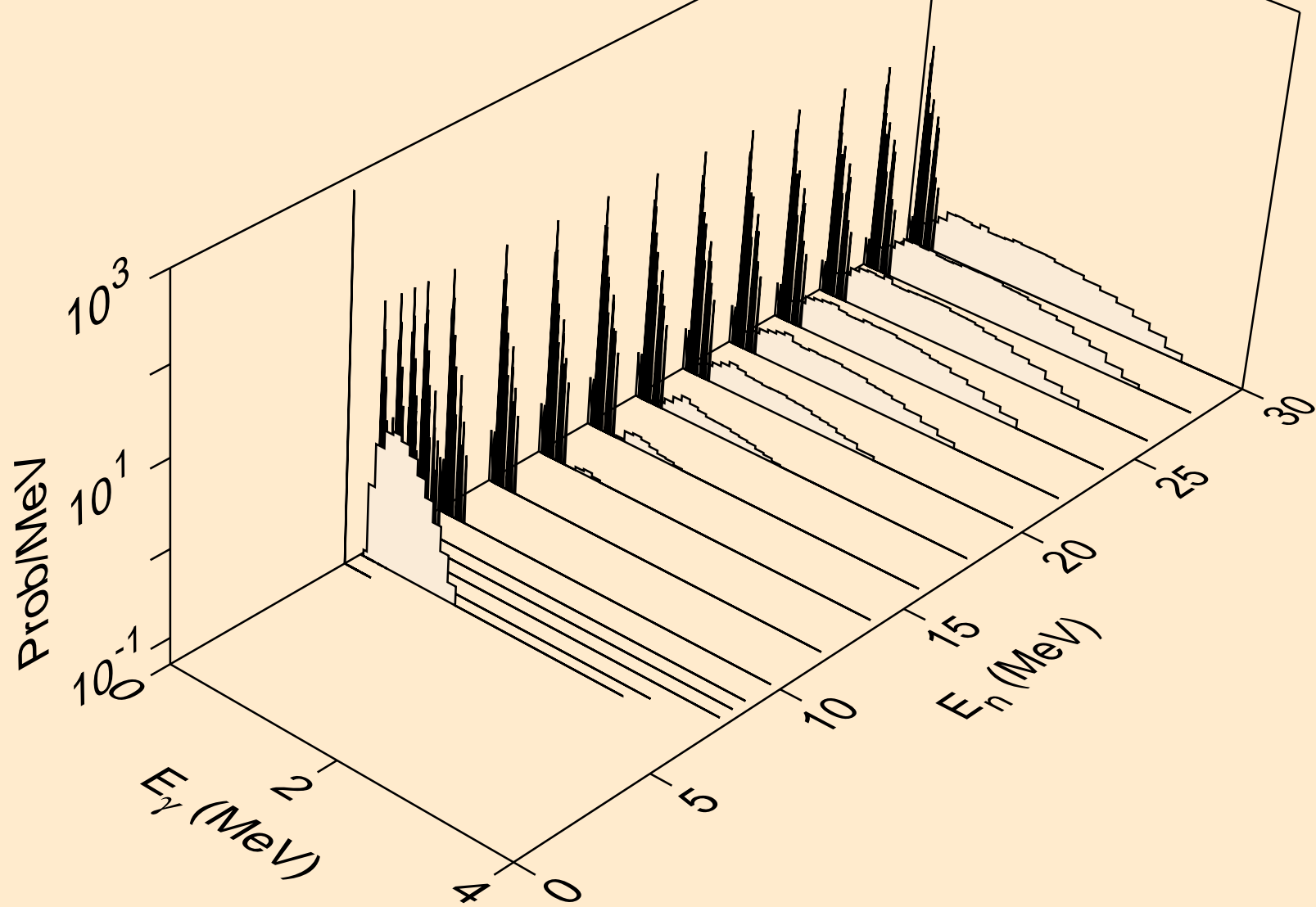
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3np)



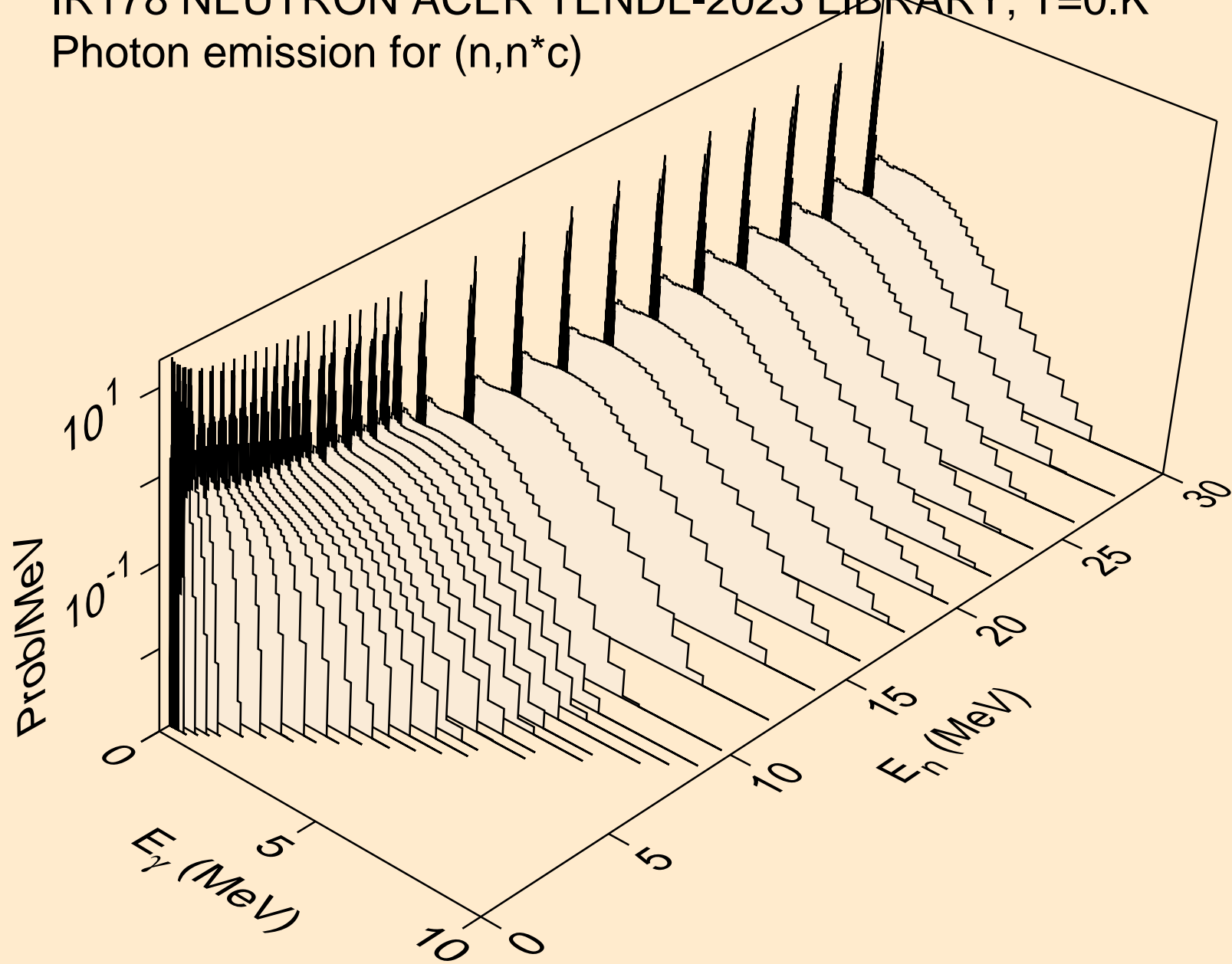
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n2p)



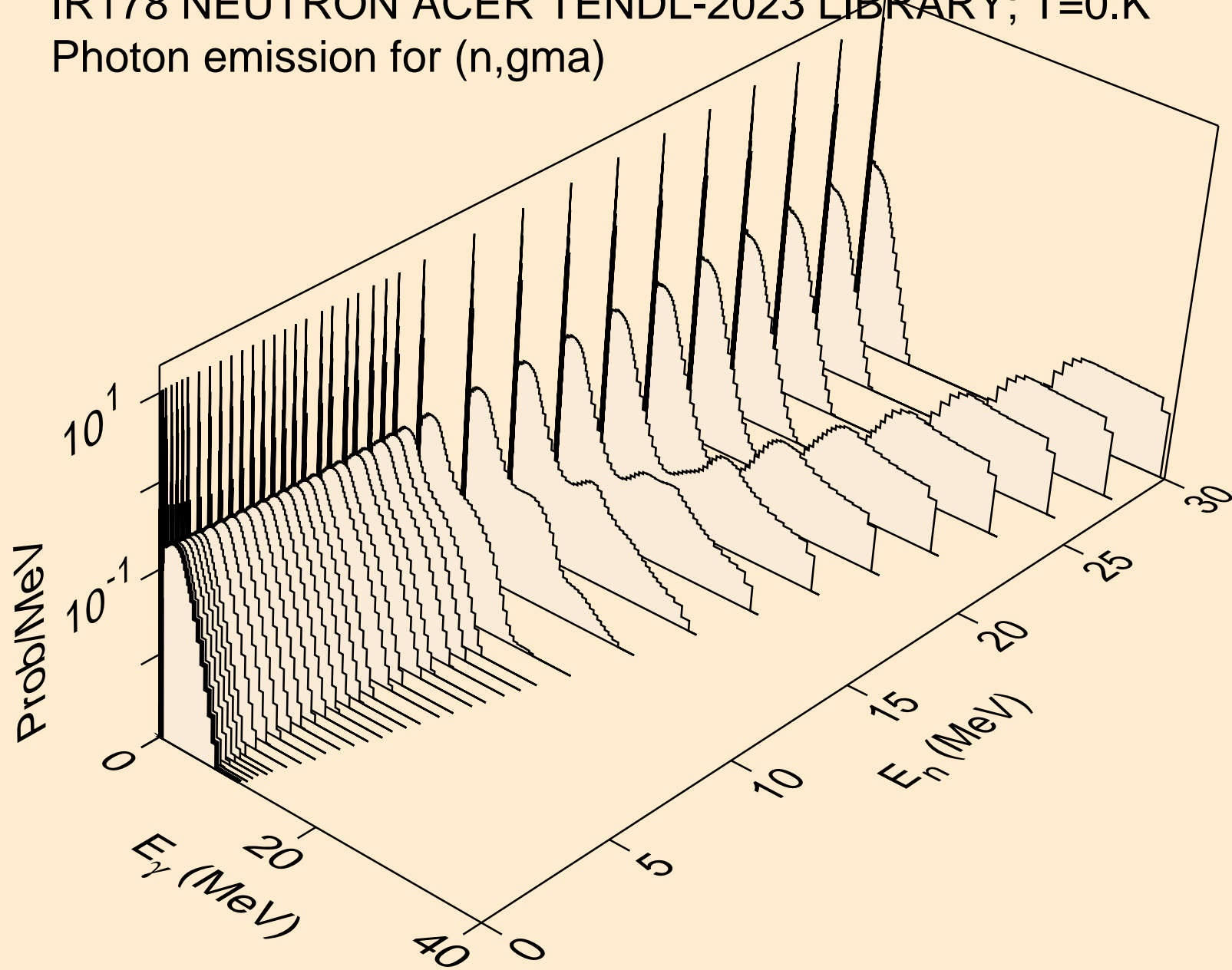
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,npa)



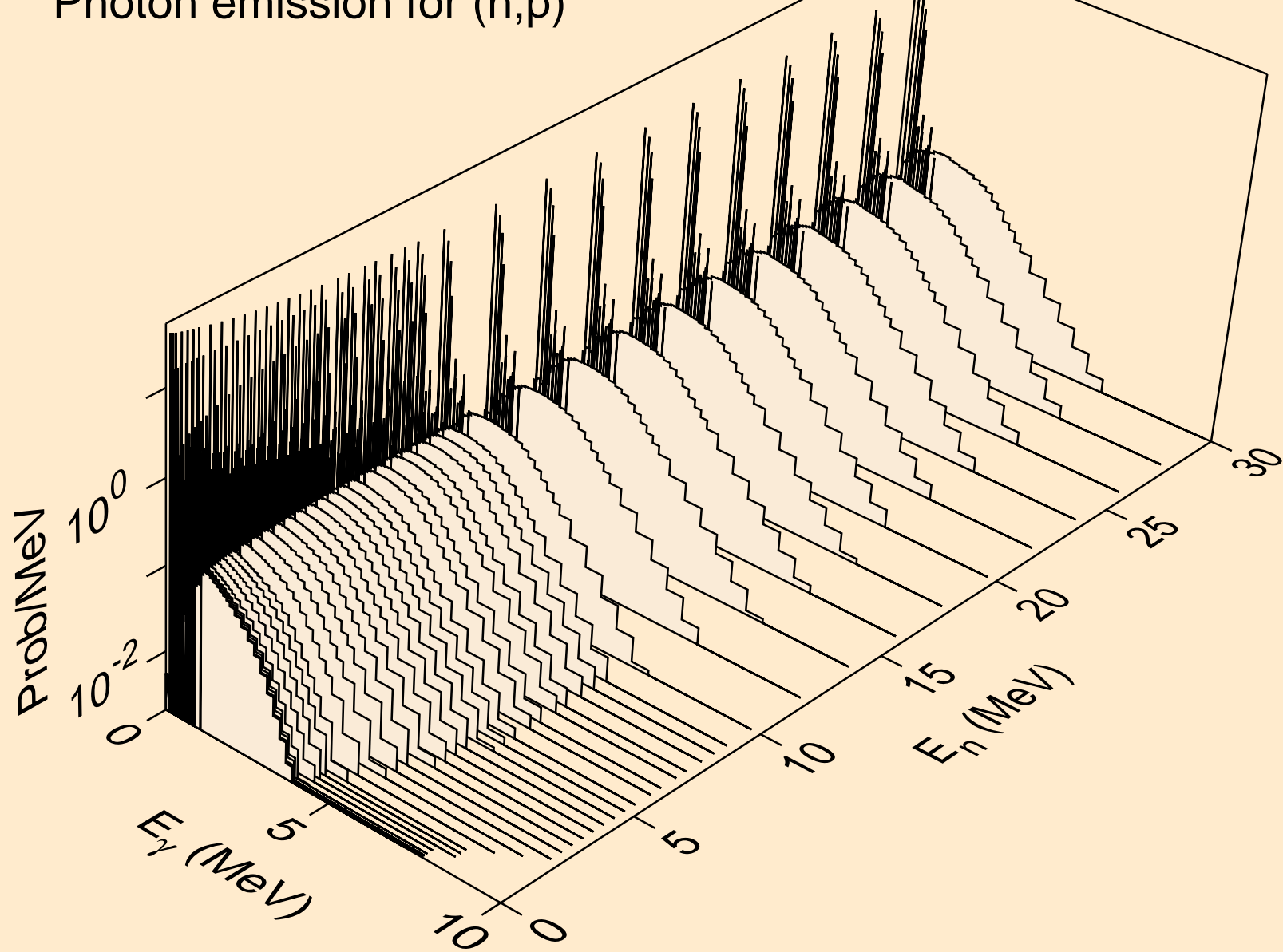
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*c)



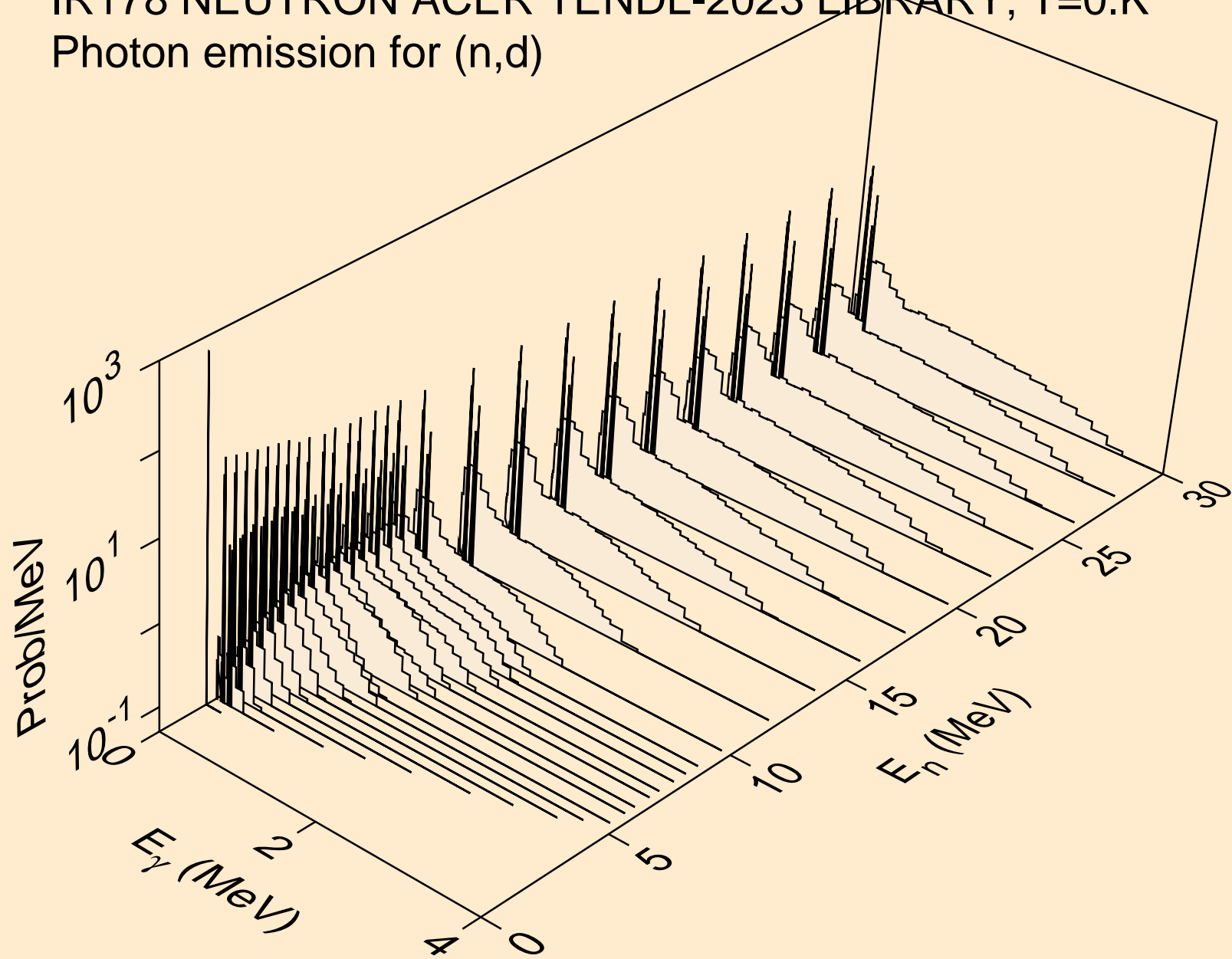
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,gma)



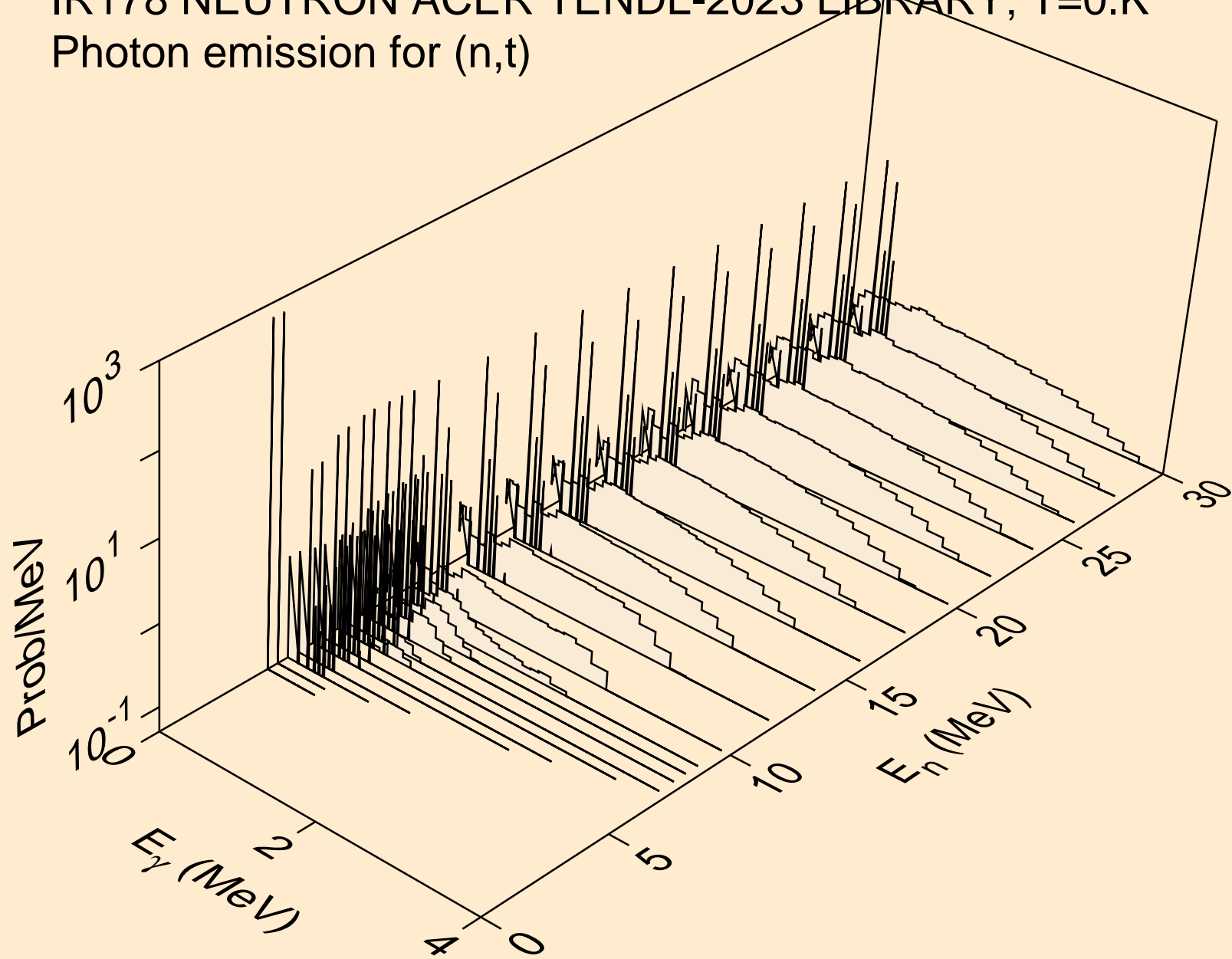
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p)



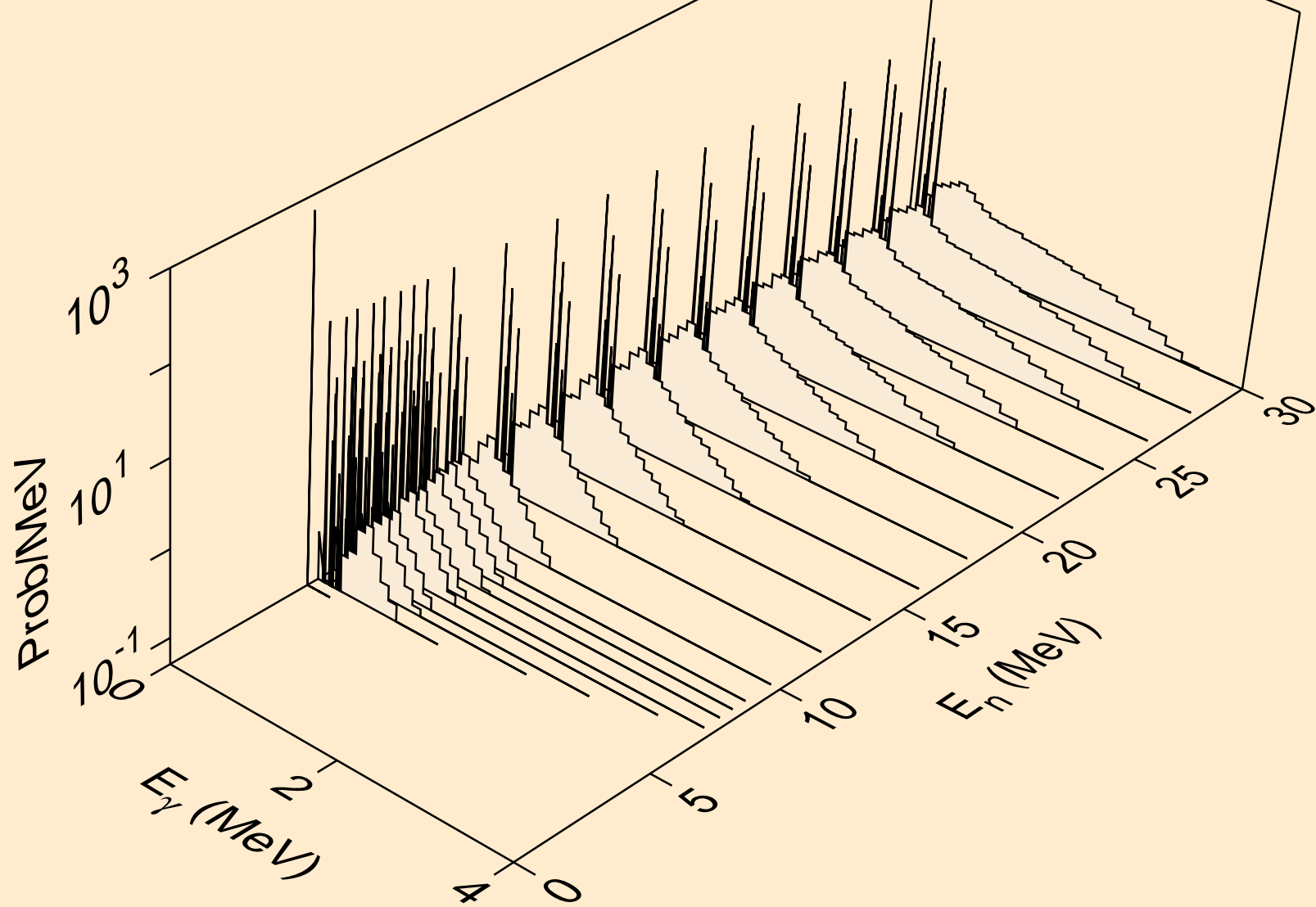
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)



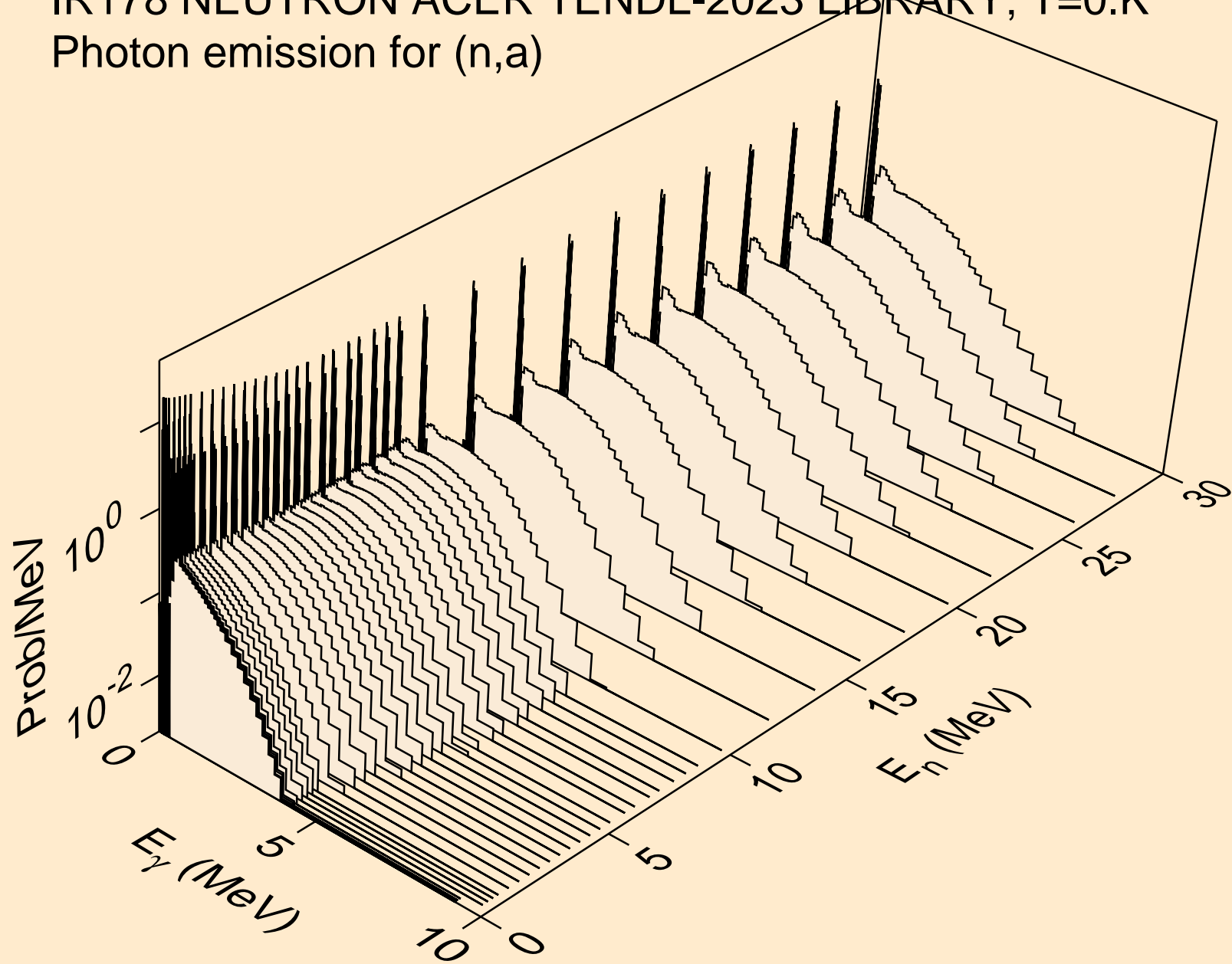
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)



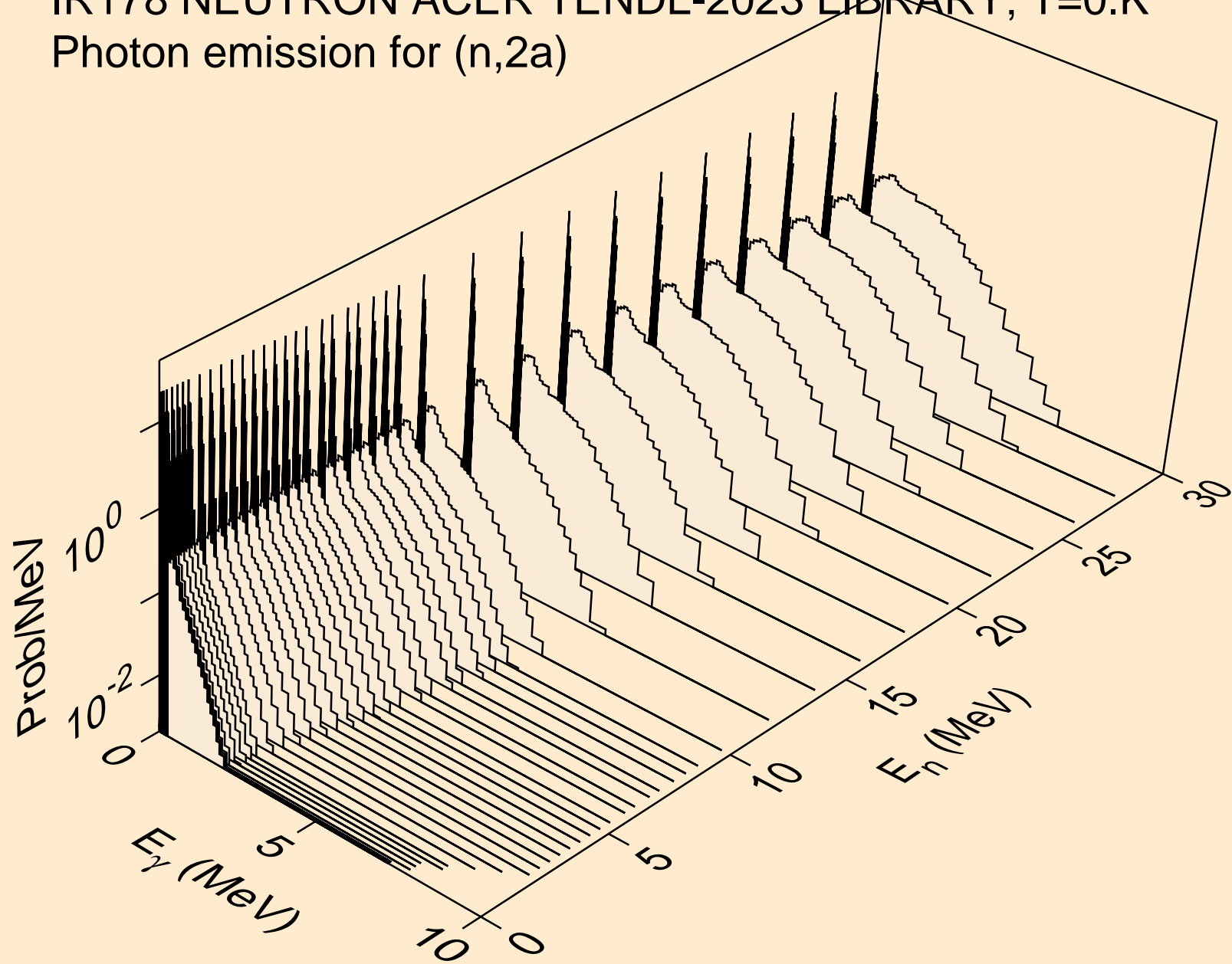
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,he3)



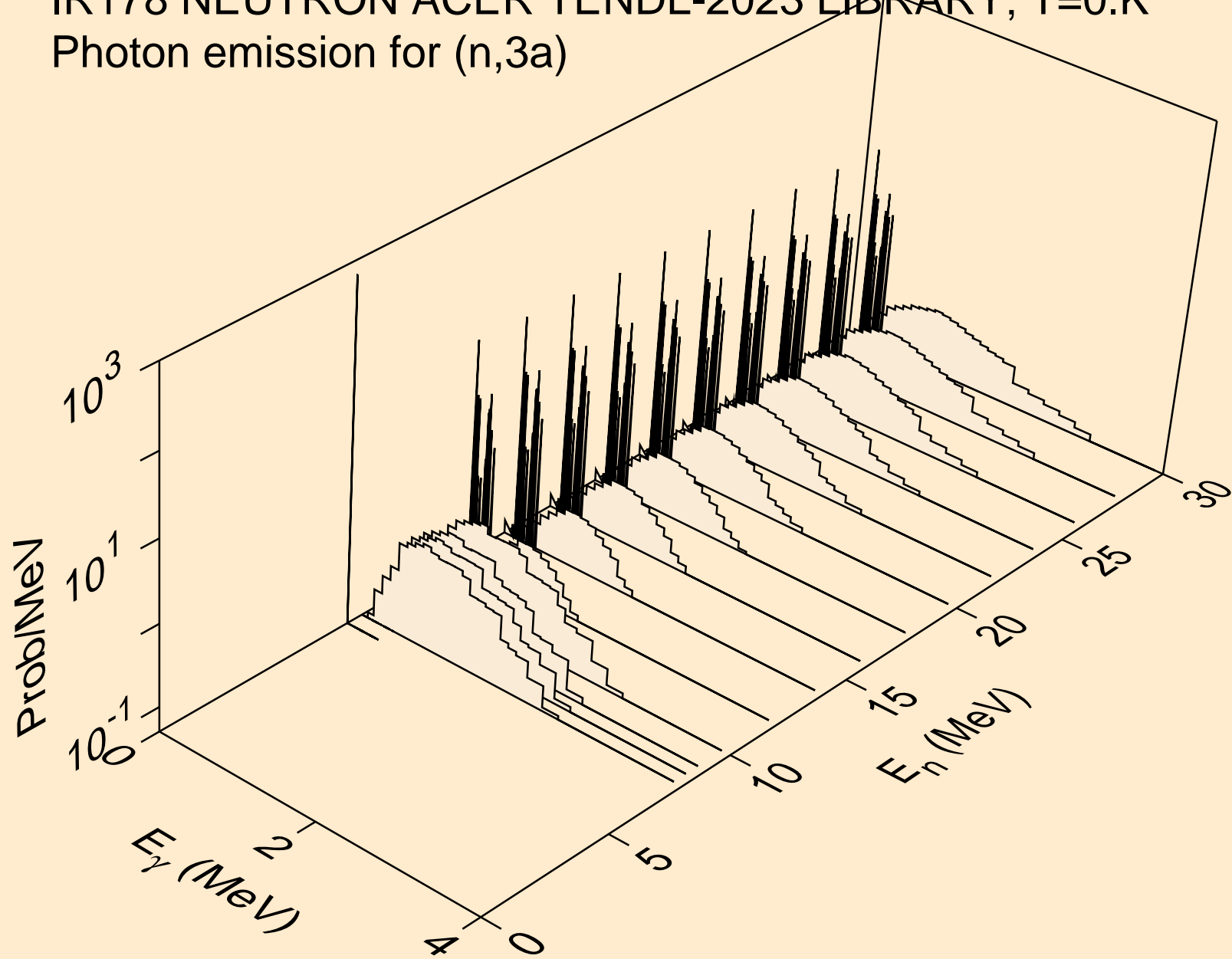
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,a)



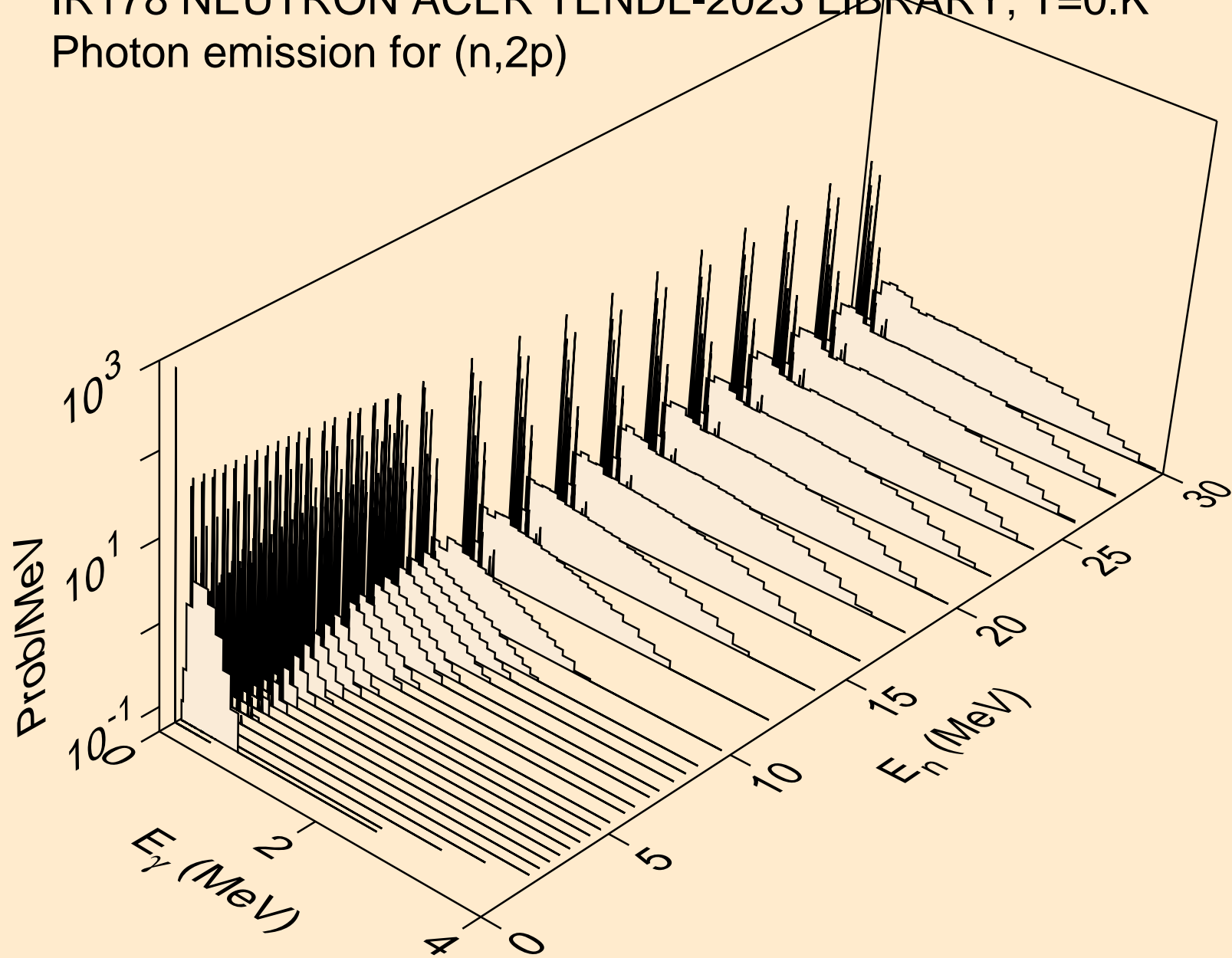
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2a)



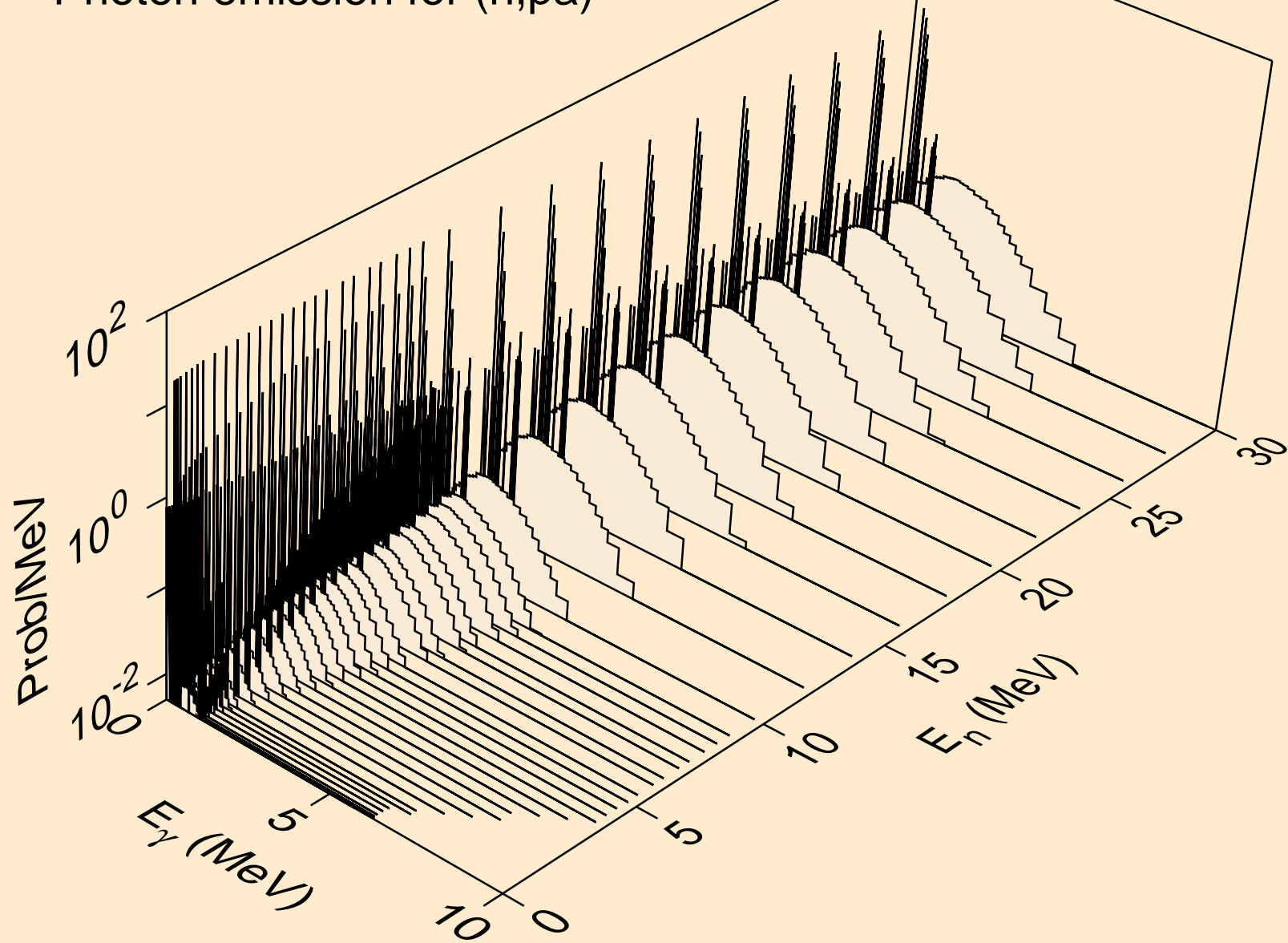
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3a)



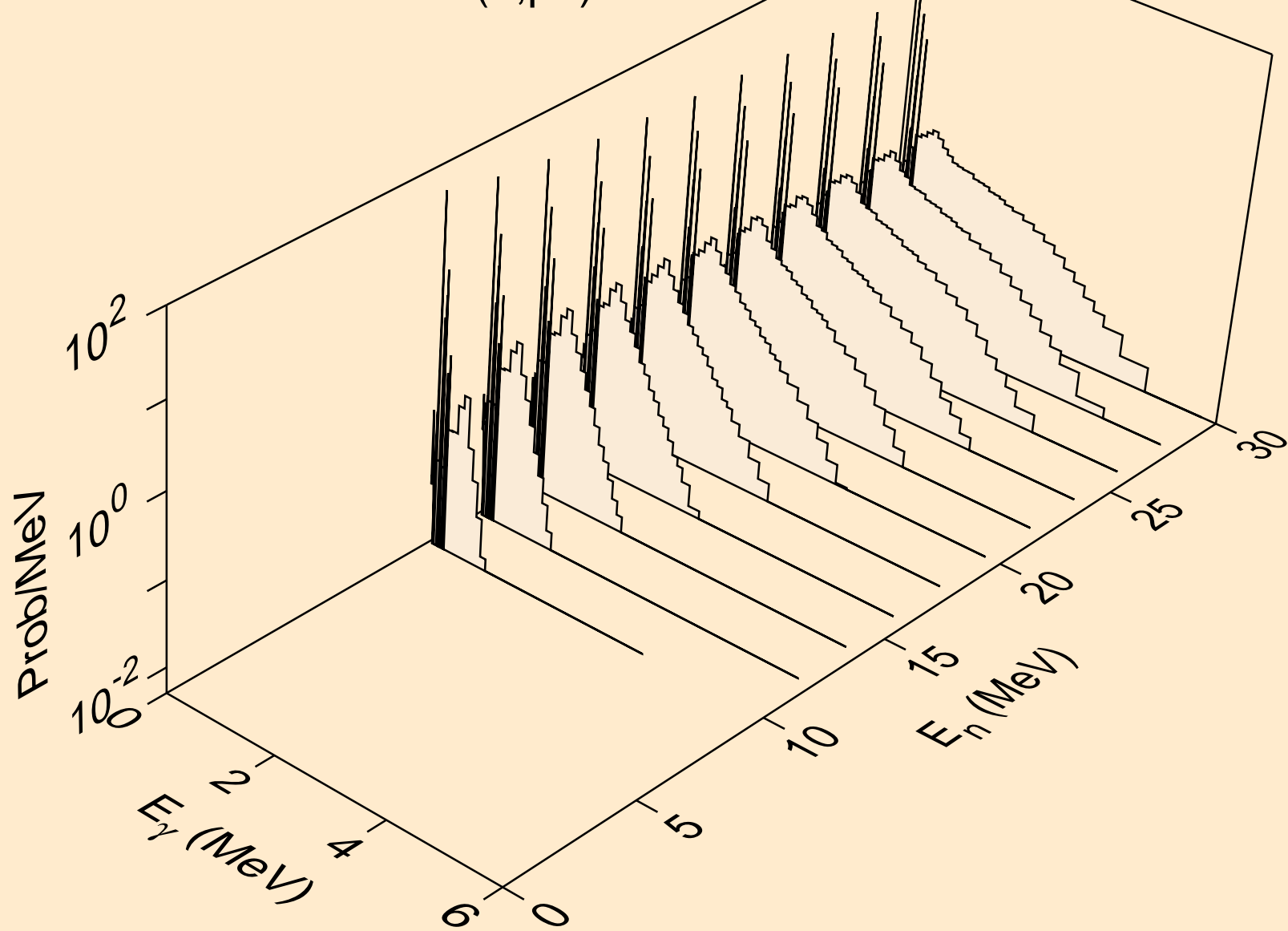
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2p)



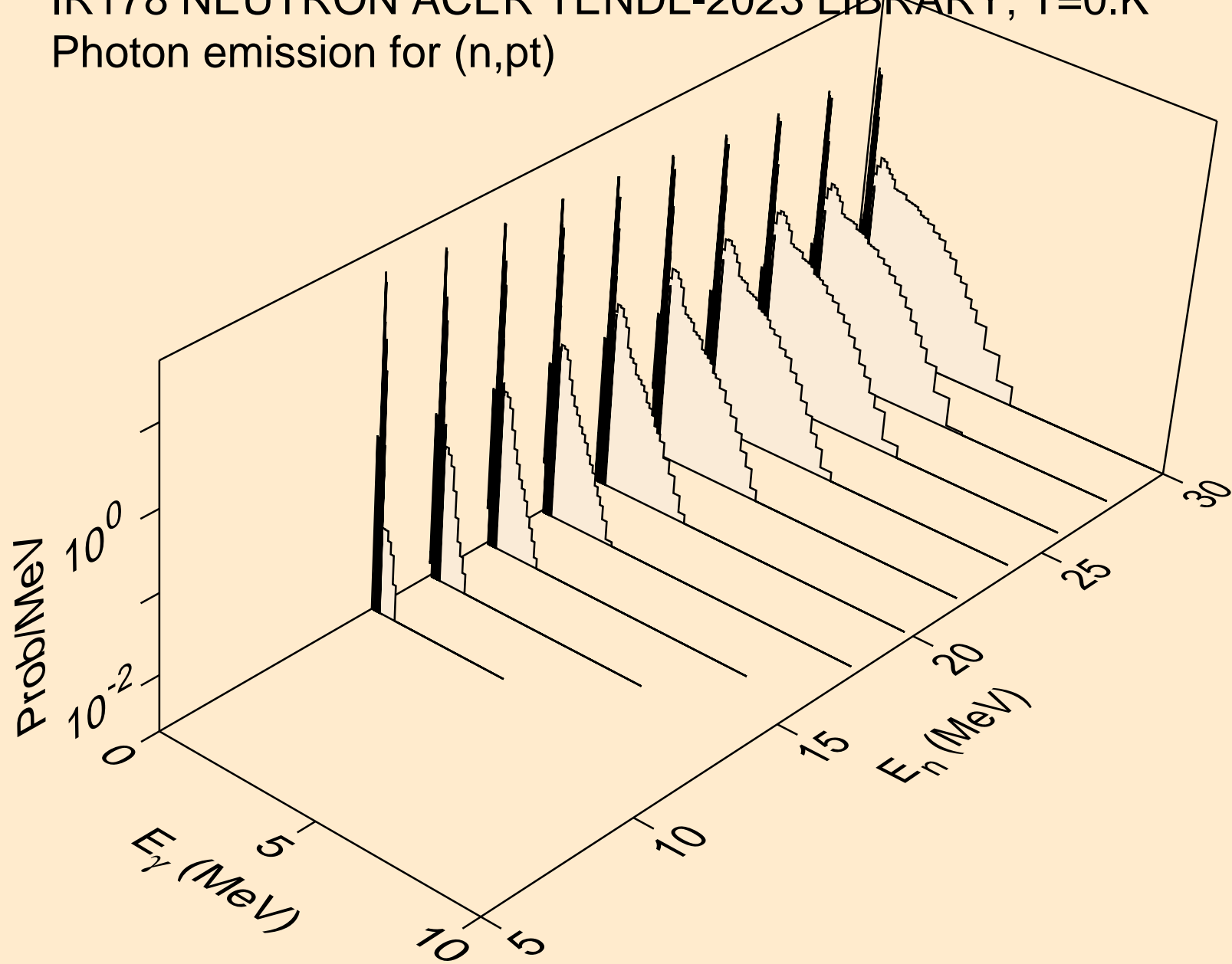
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p α)



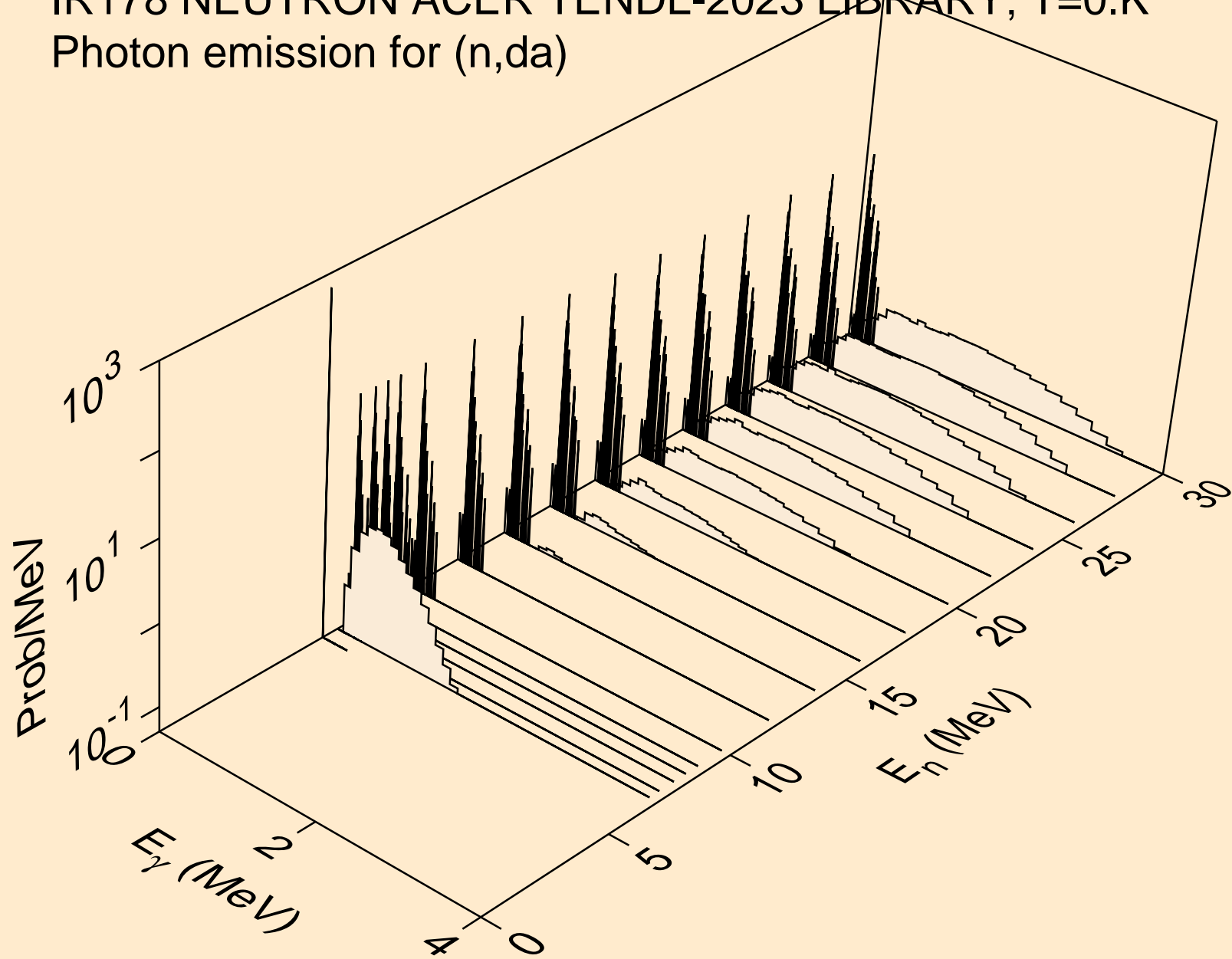
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pd)



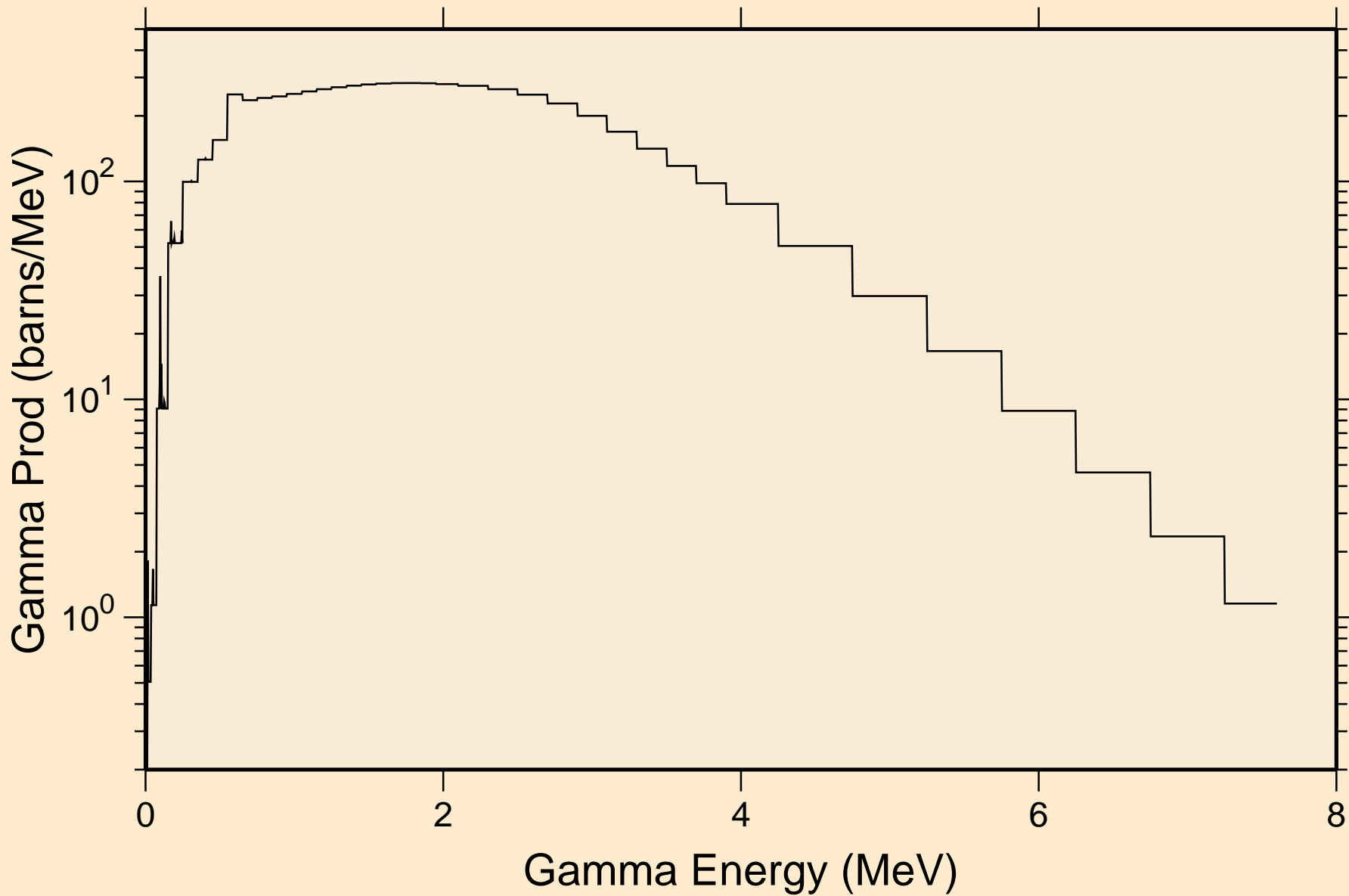
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pt)



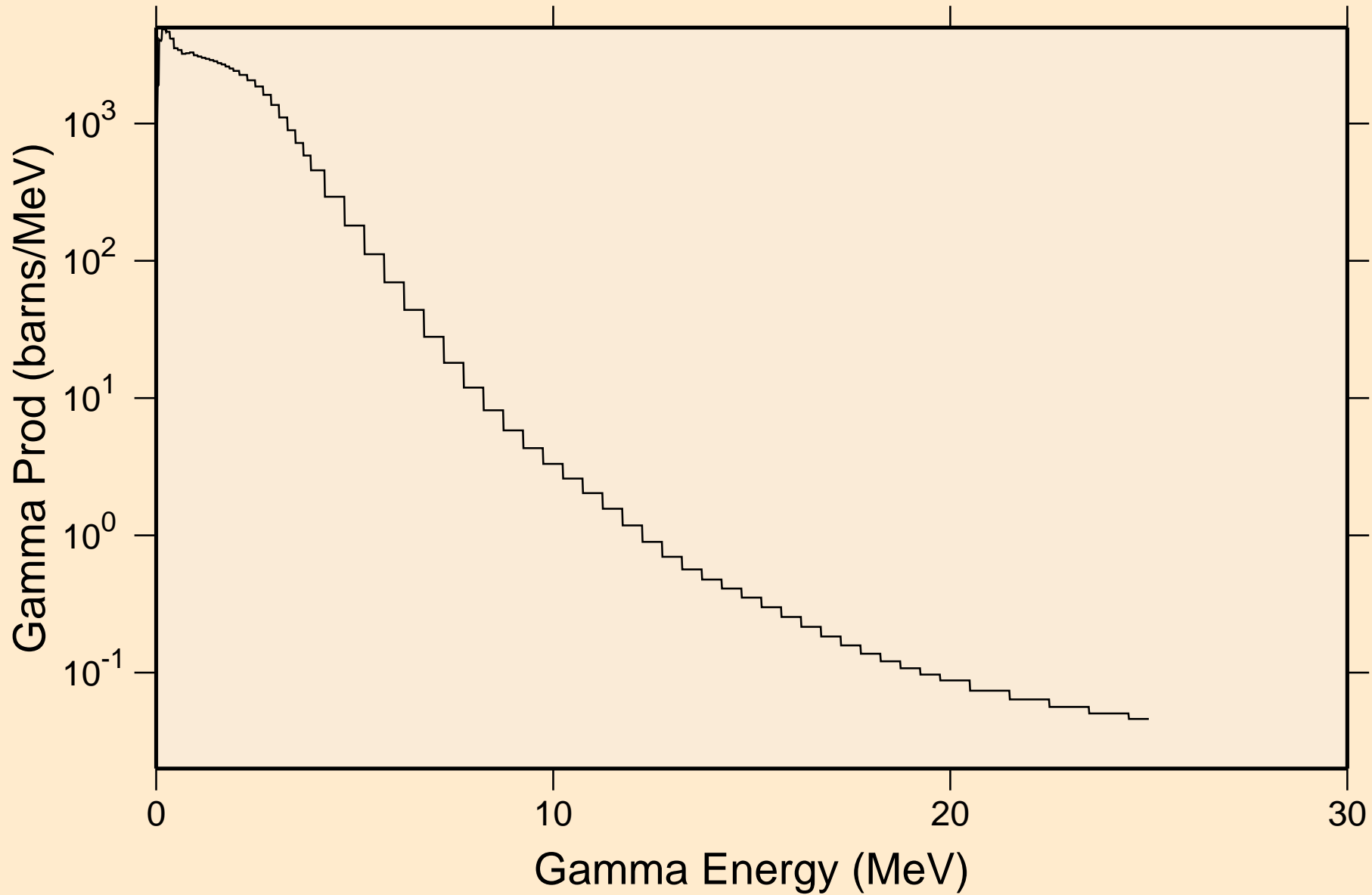
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,da)



IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
thermal capture photon spectrum

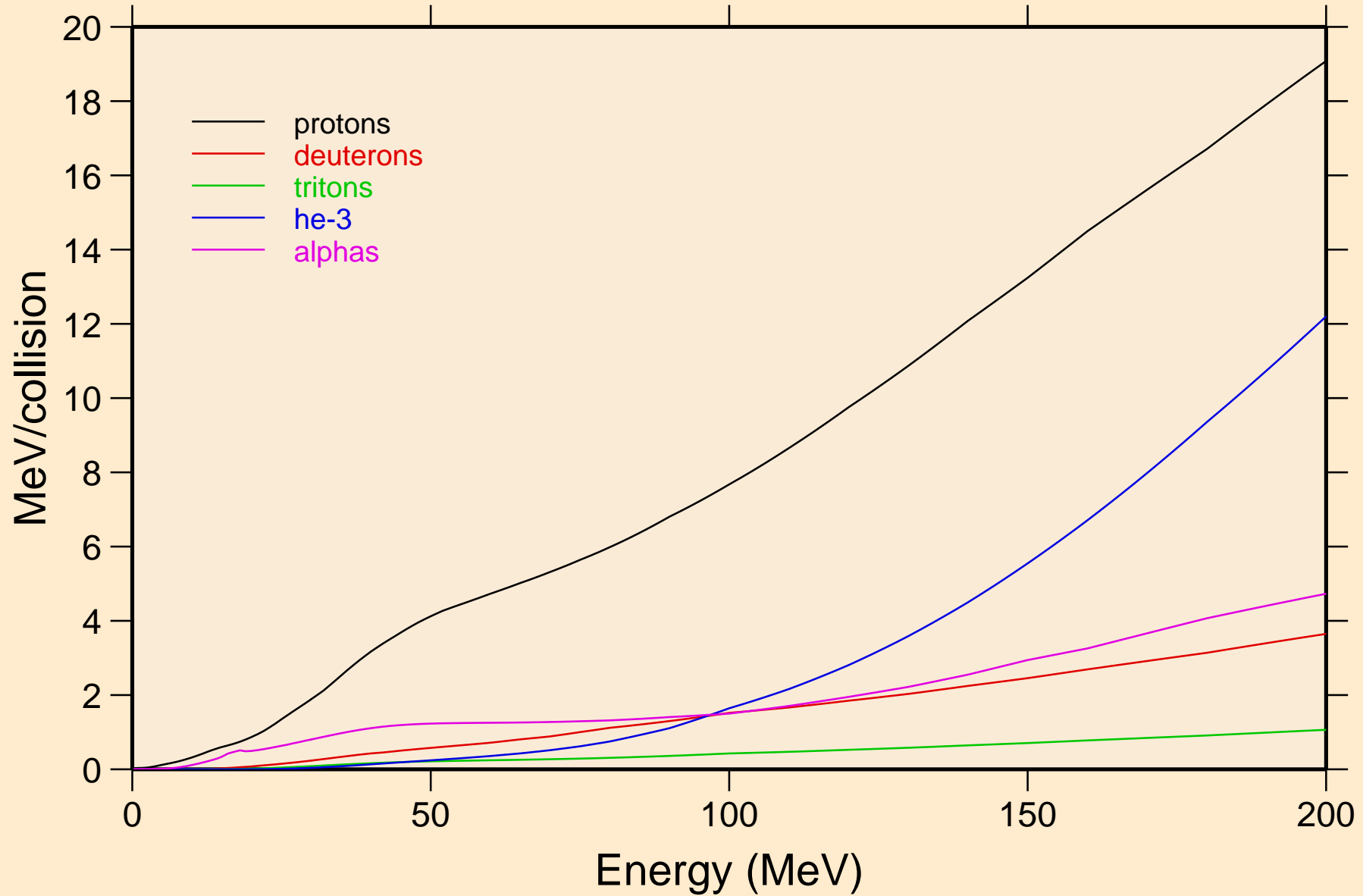


IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
14 MeV photon spectrum



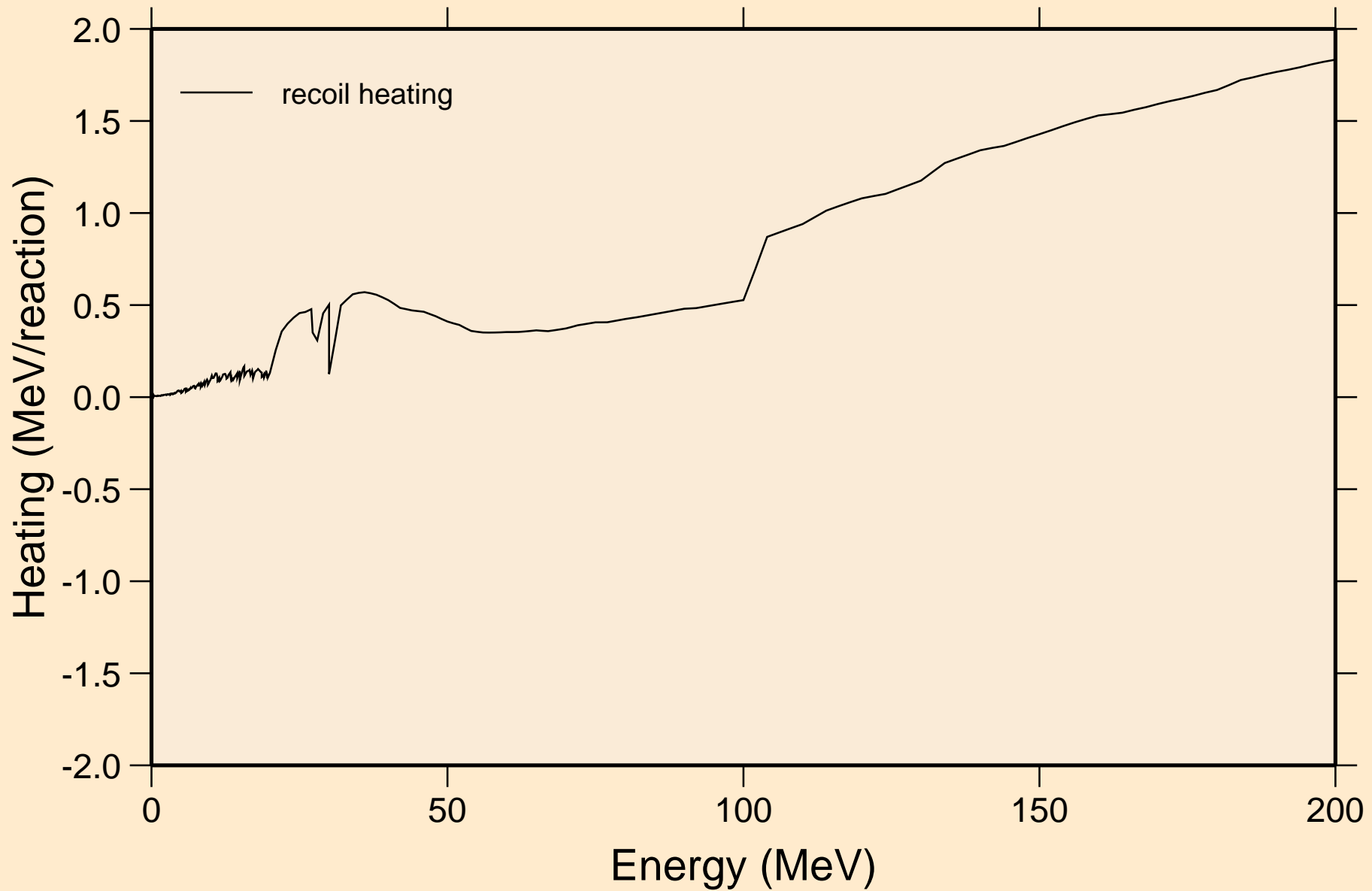
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Particle heating contributions



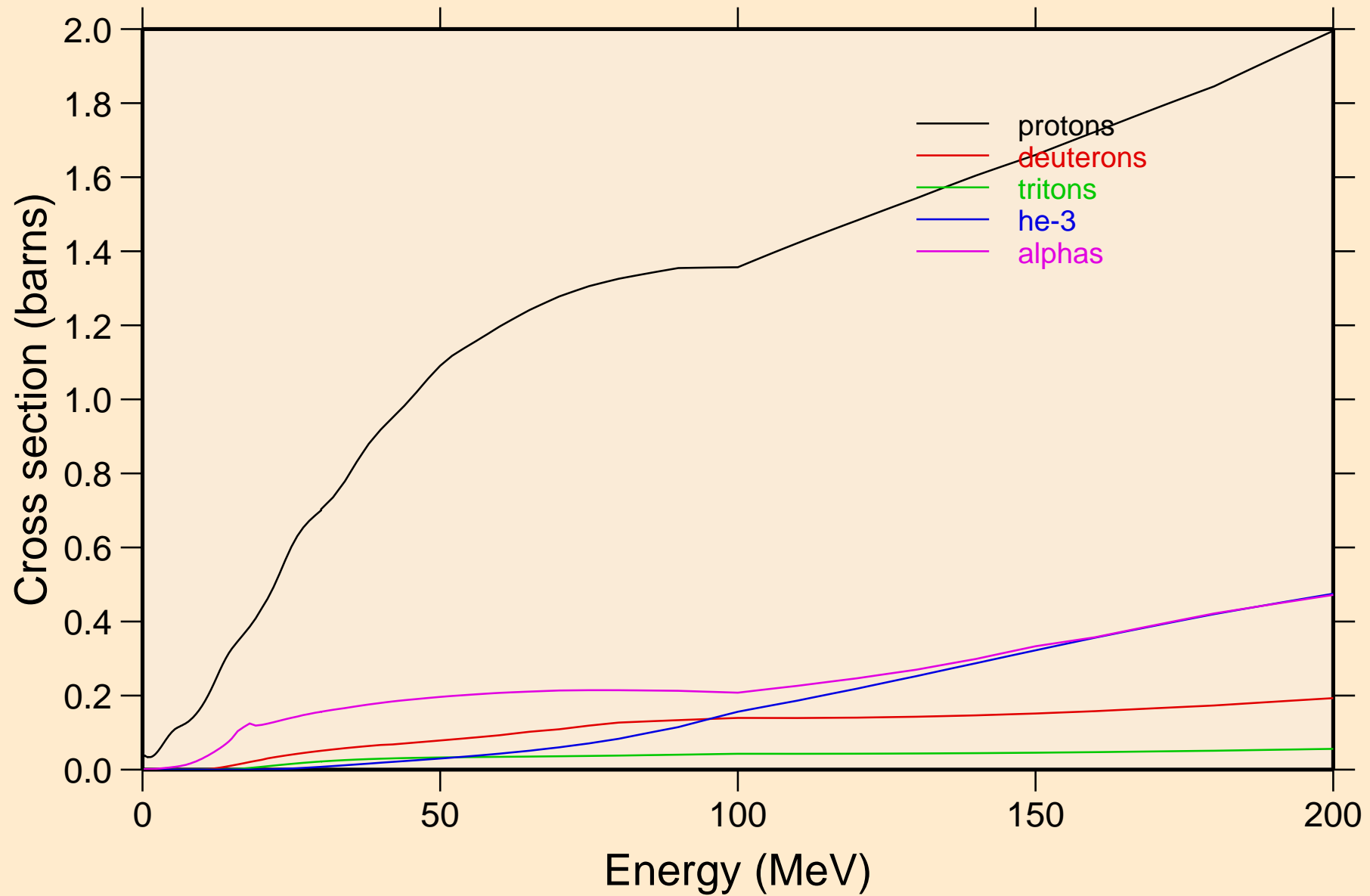
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Recoil Heating

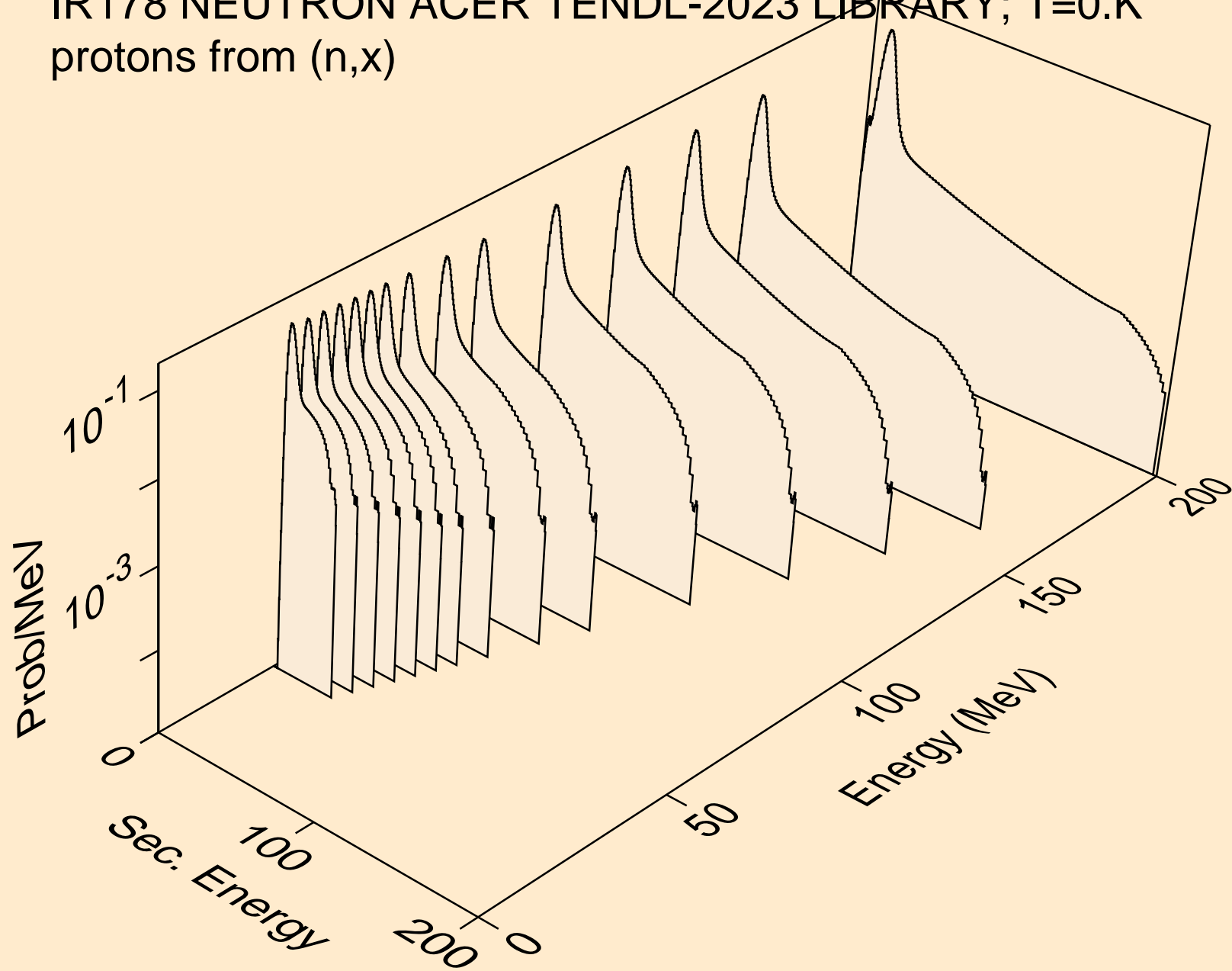


IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

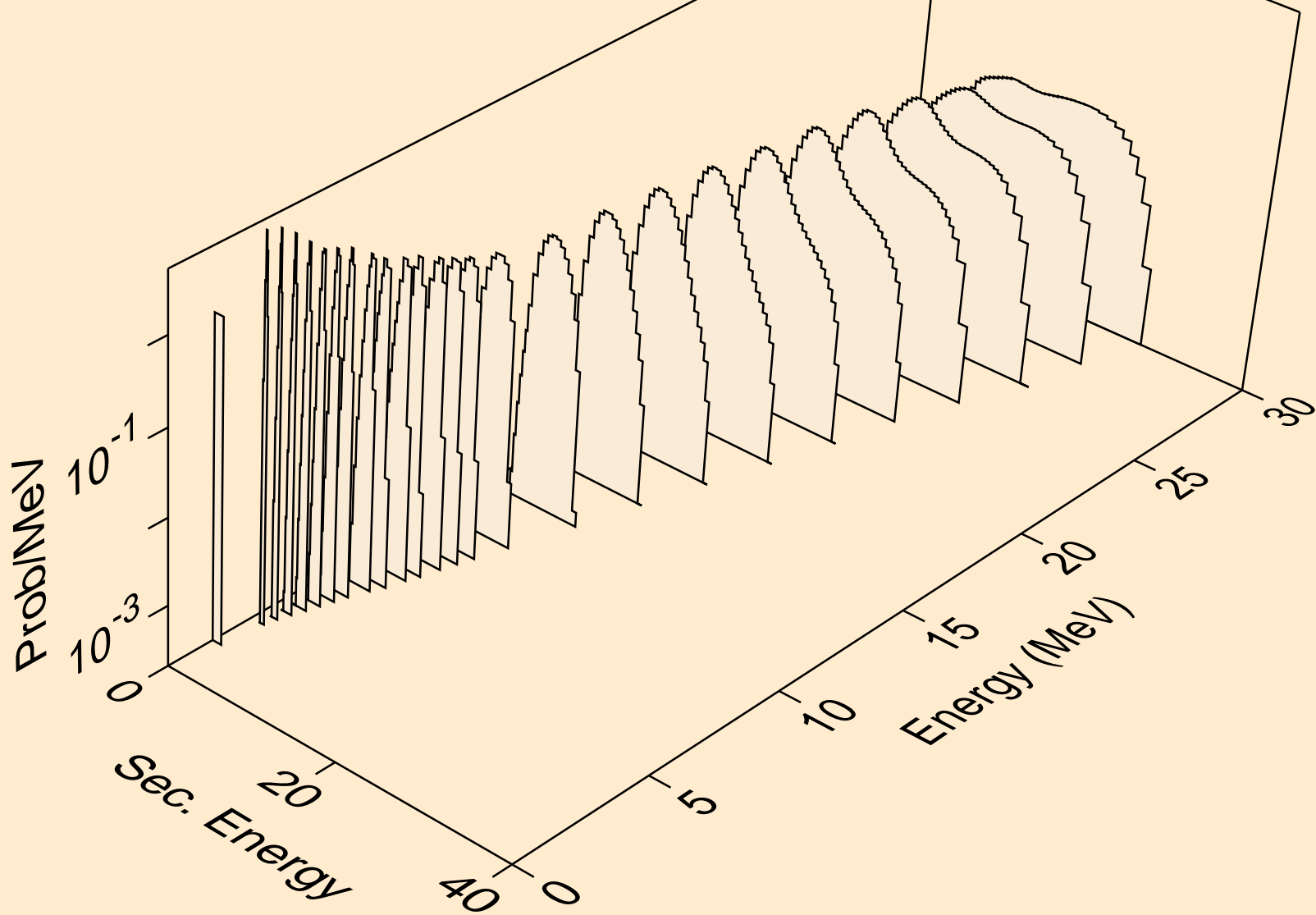
Particle production cross sections



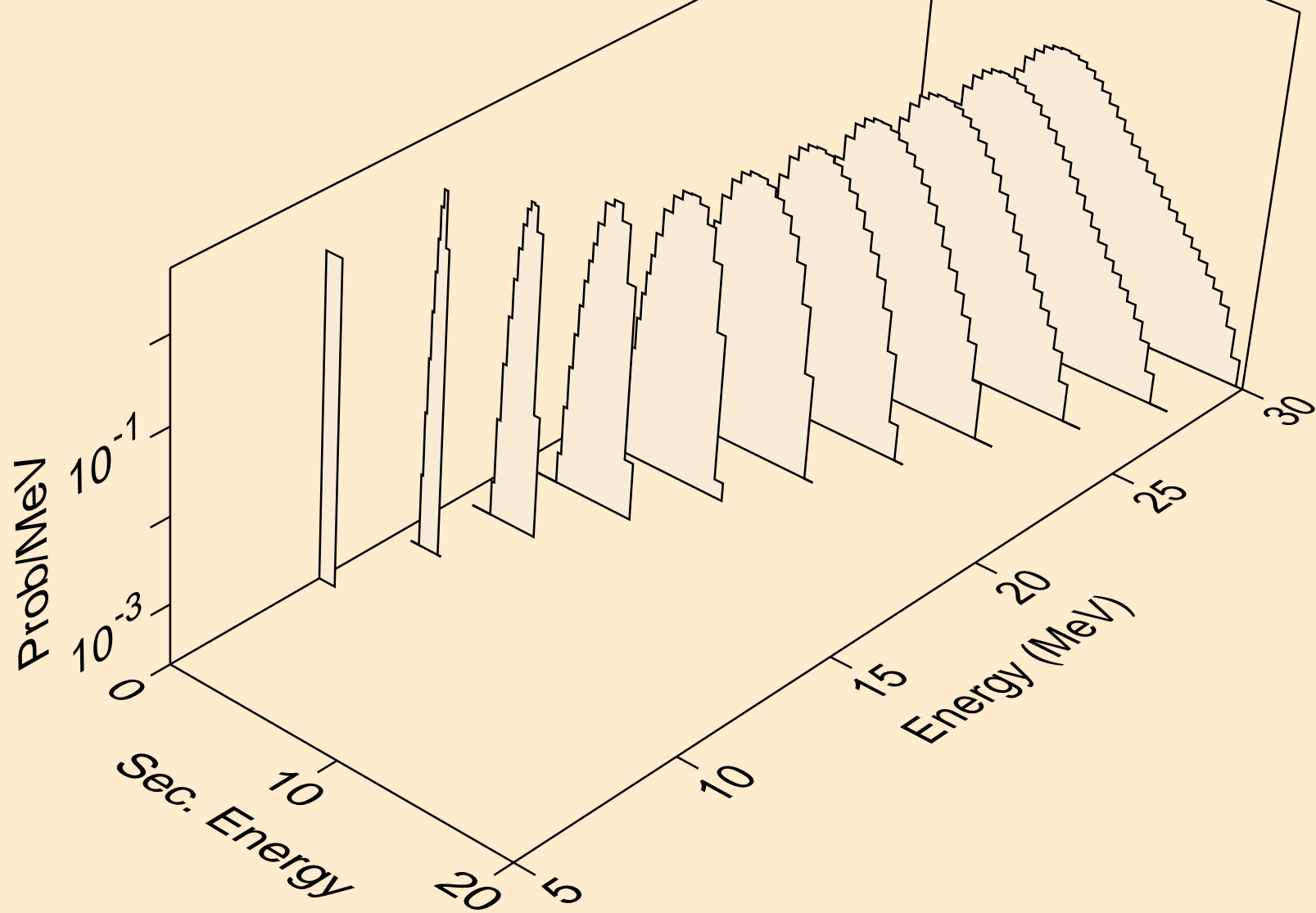
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,x)



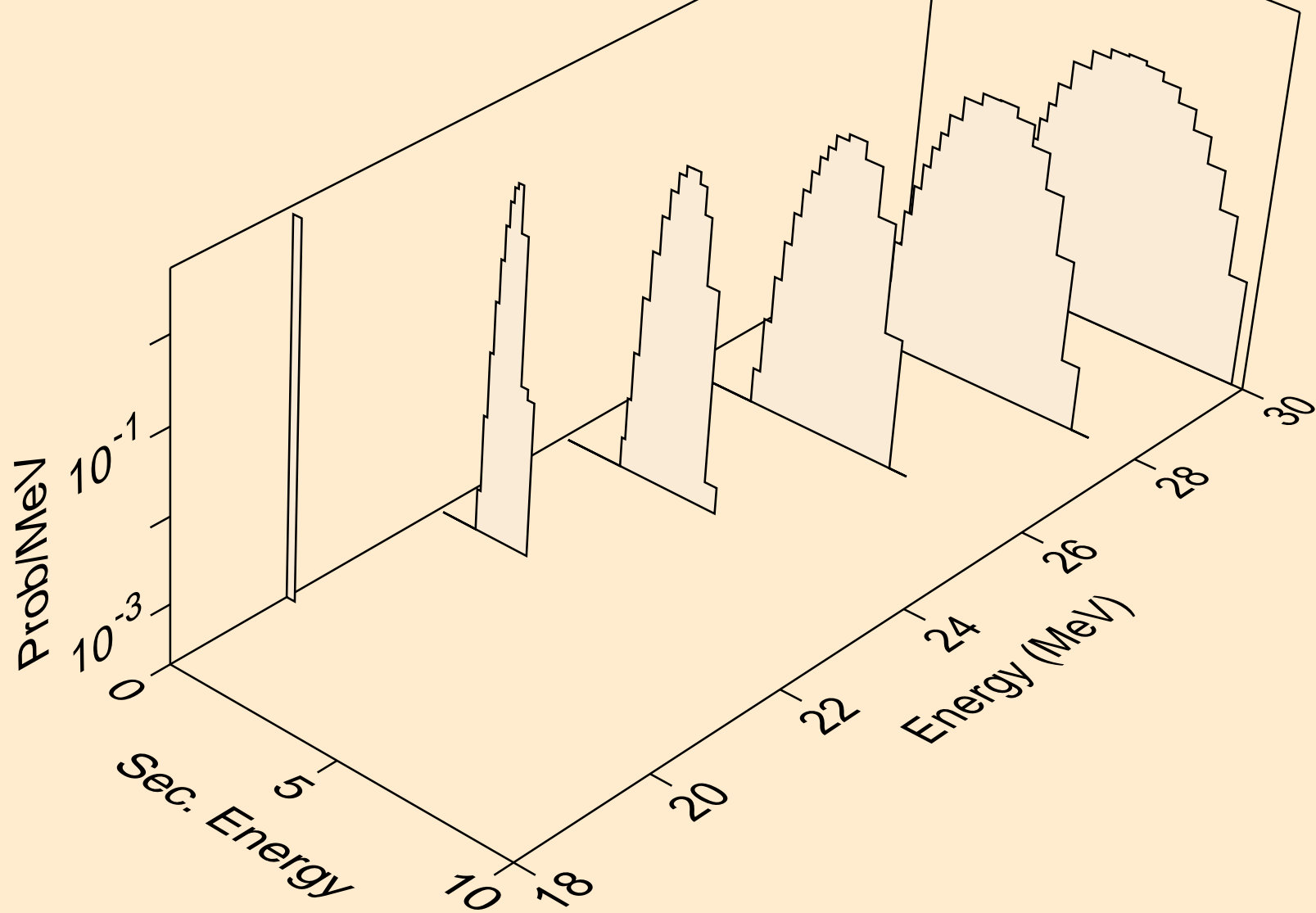
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,n*)p



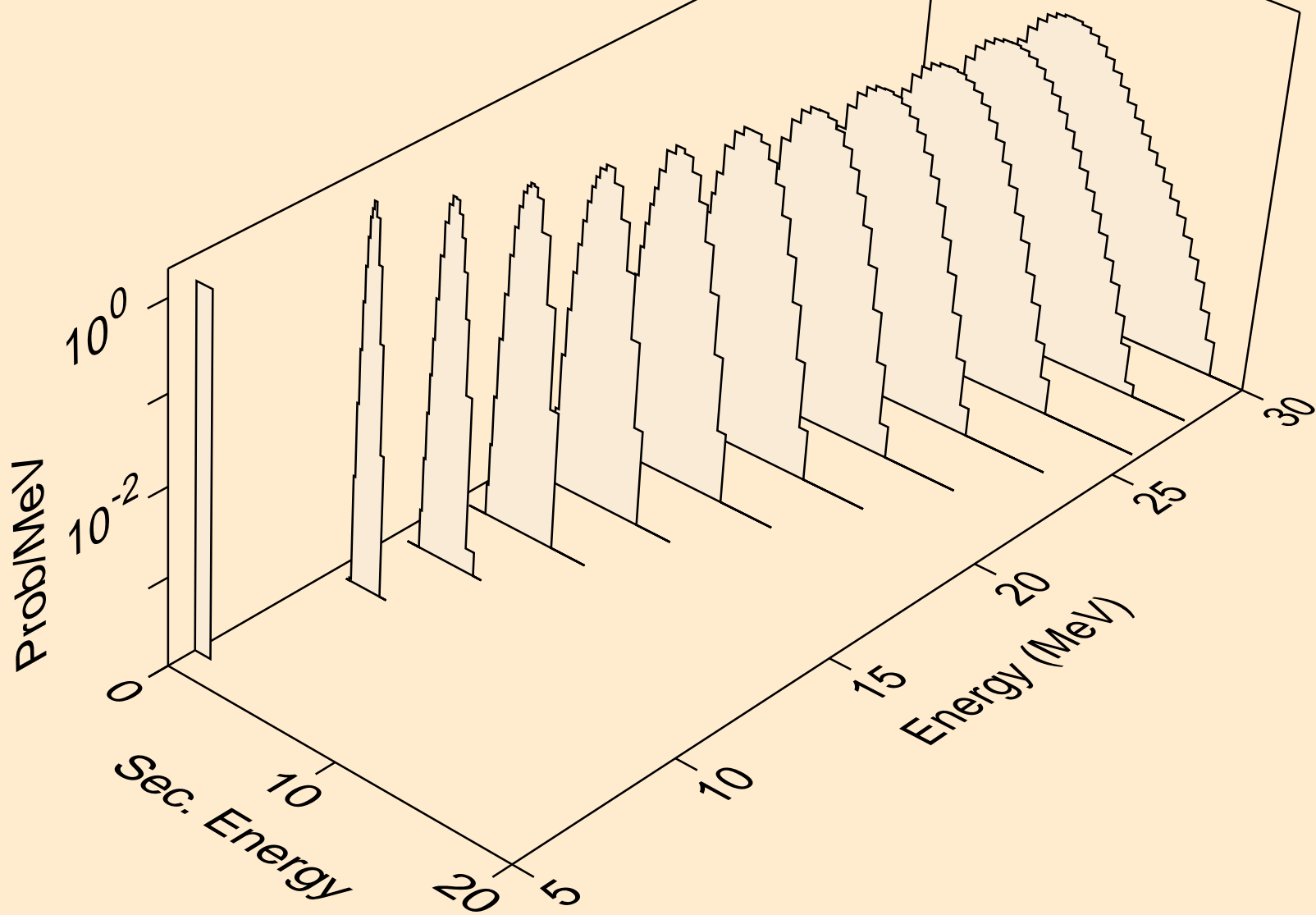
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,2np)



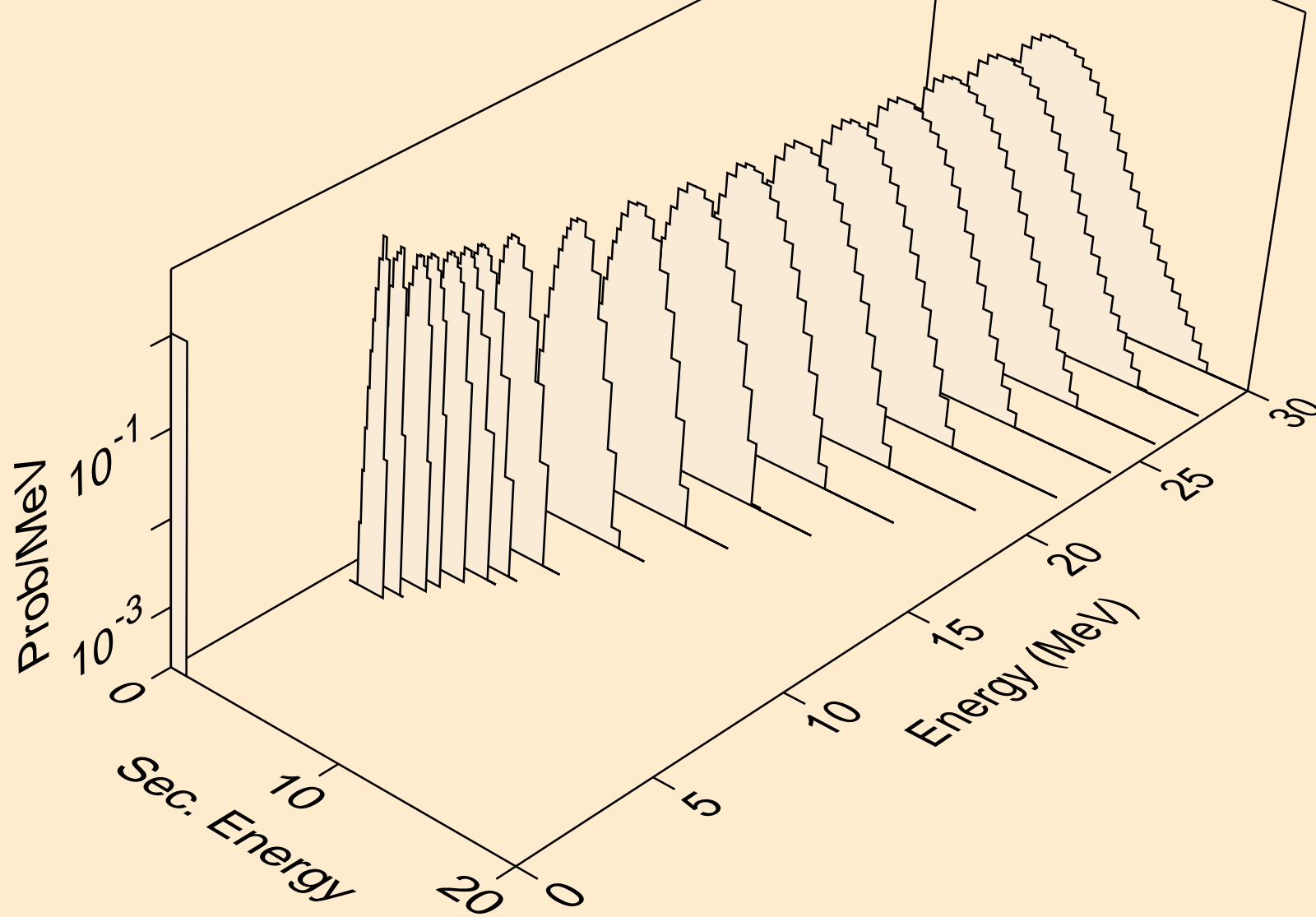
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protons from (n,3np)



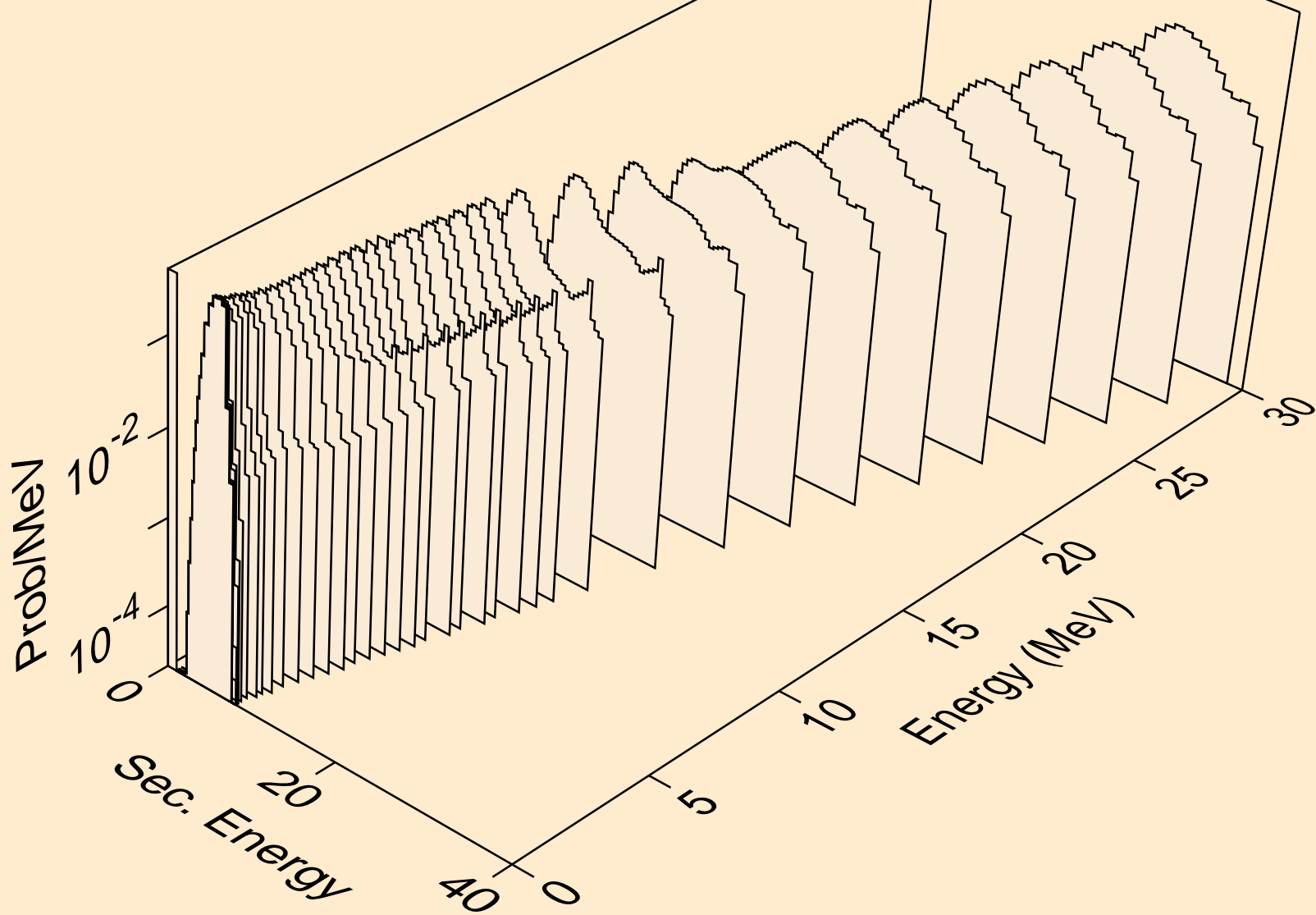
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protons from (n,n2p)



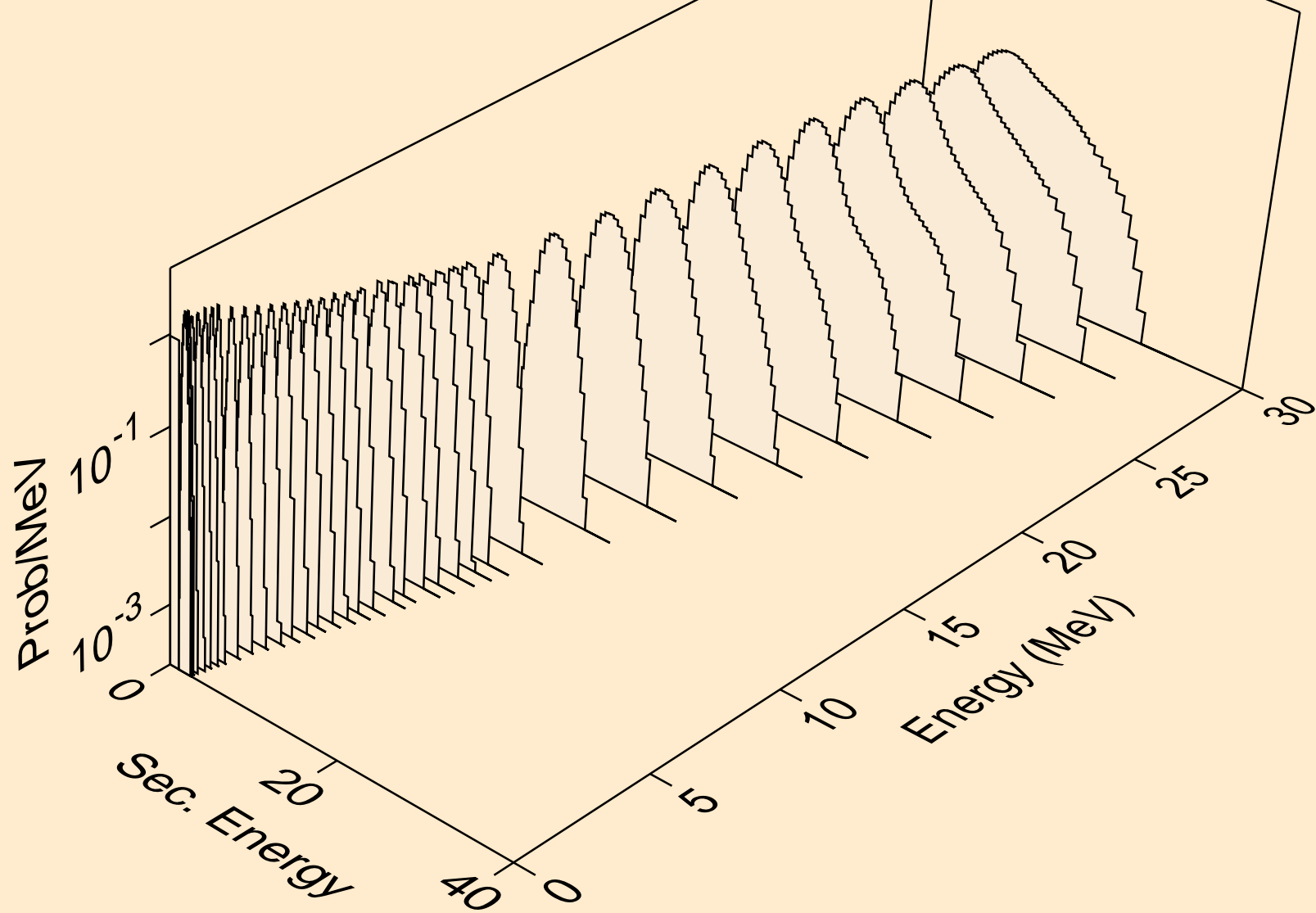
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protons from (n,npa)



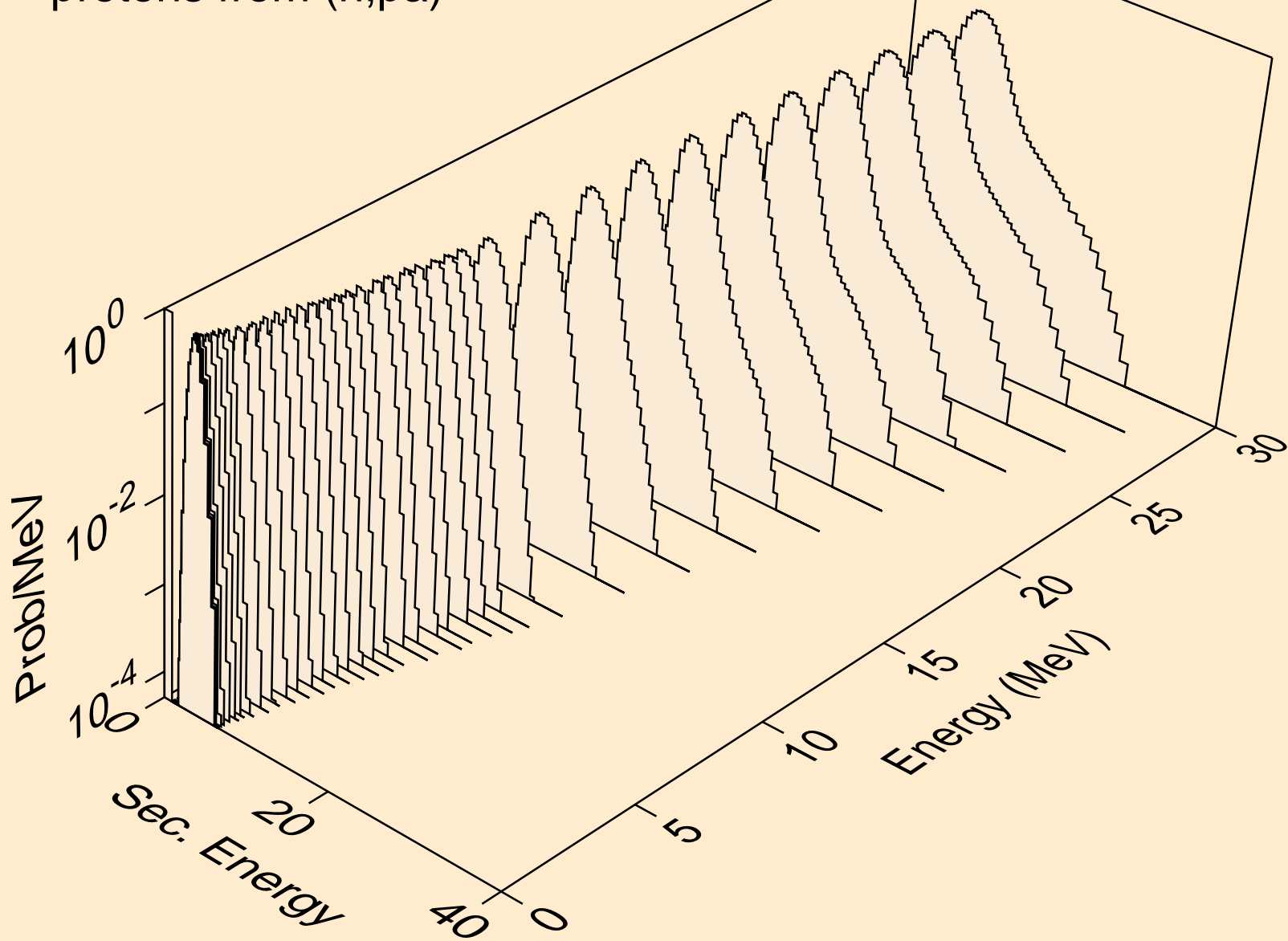
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protons from (n,p)



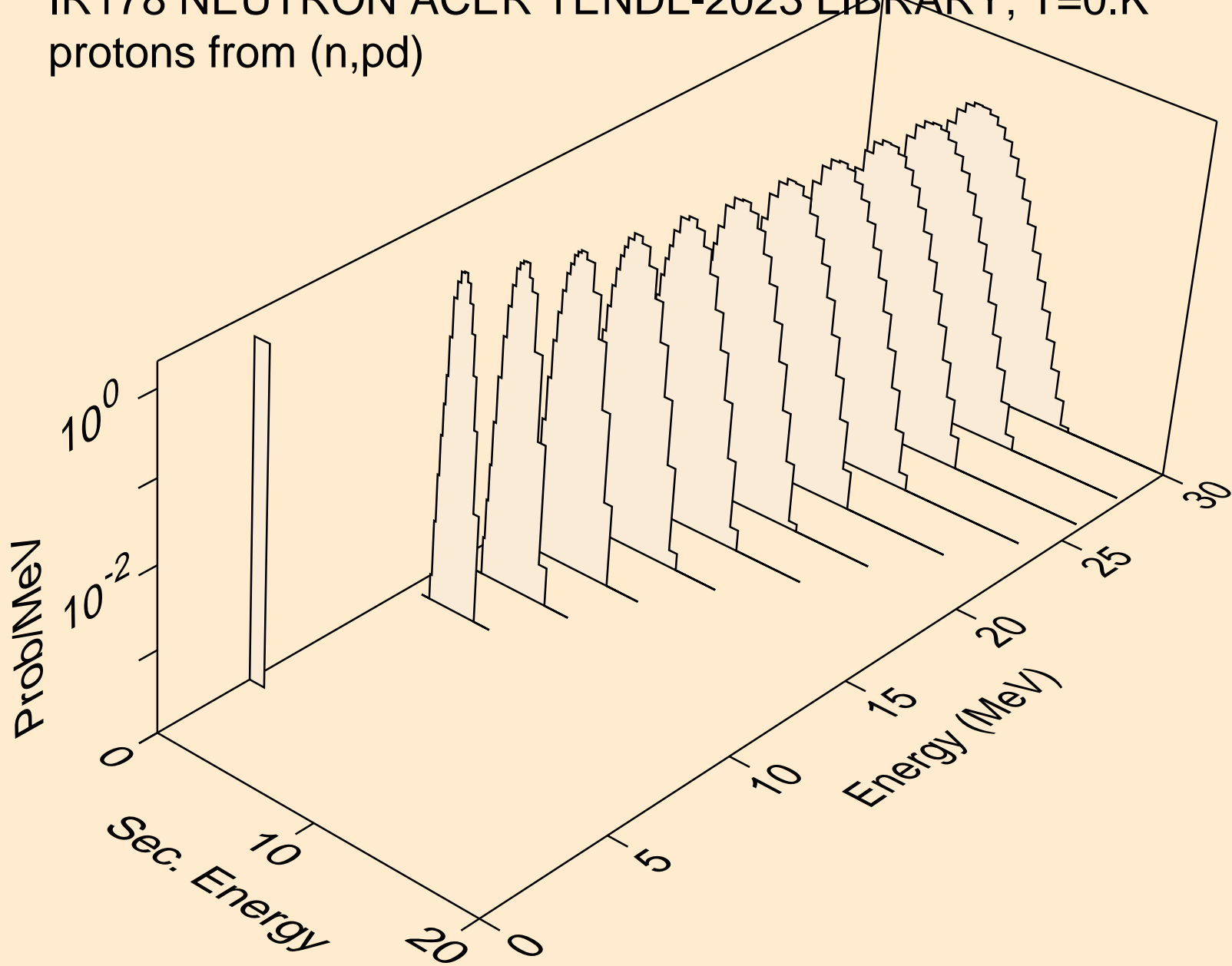
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protons from (n,2p)



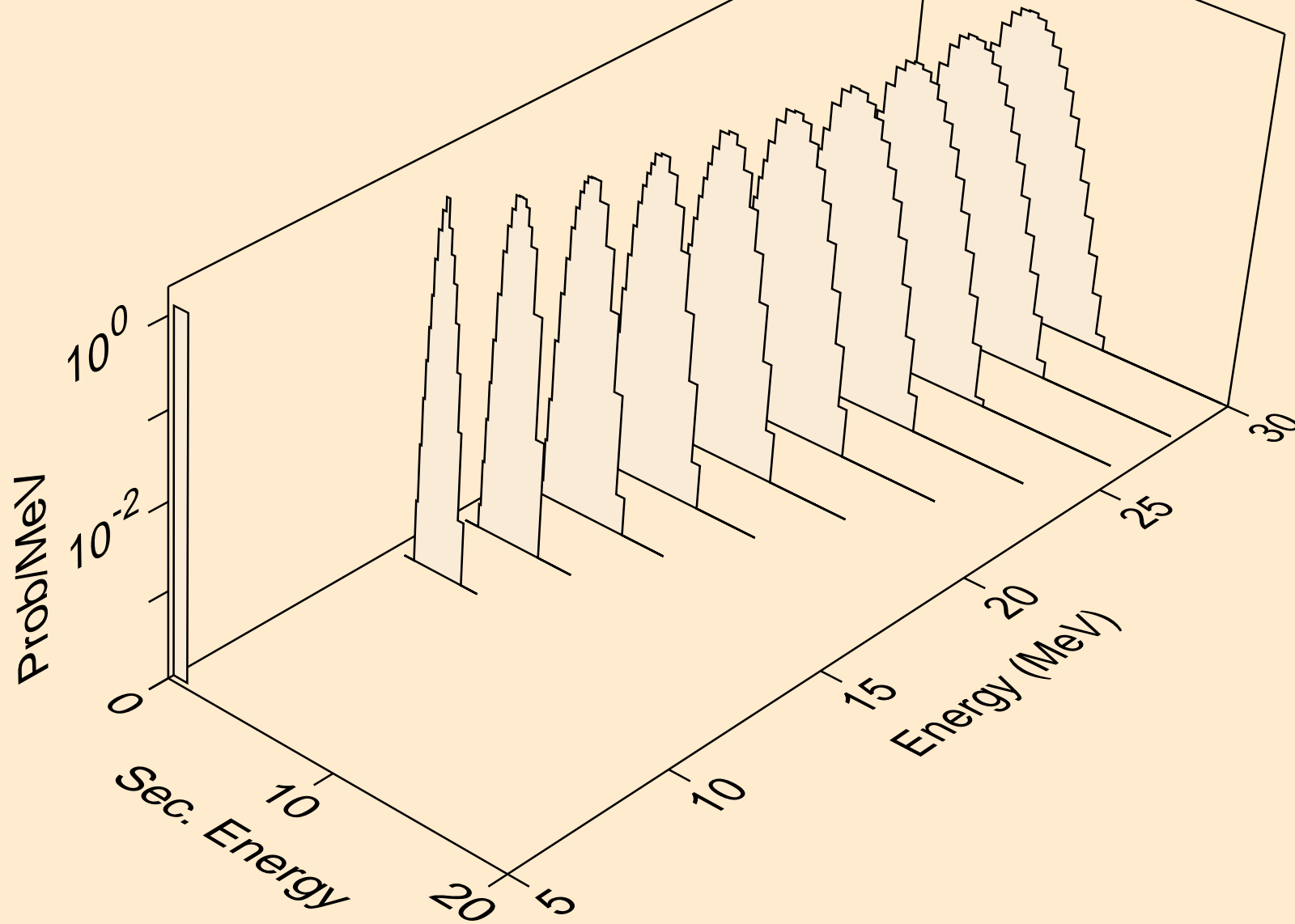
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protons from (n,p)



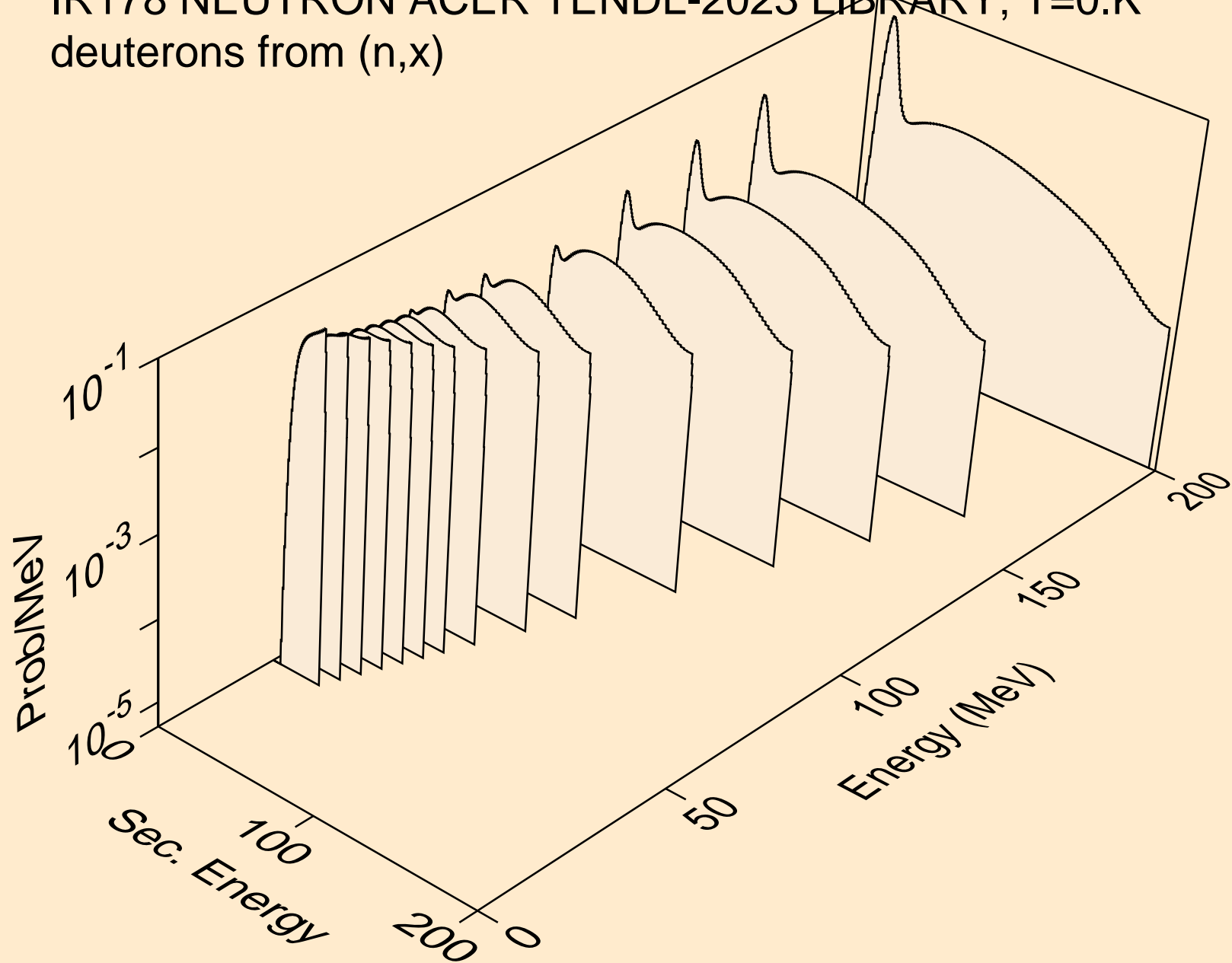
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,pd)



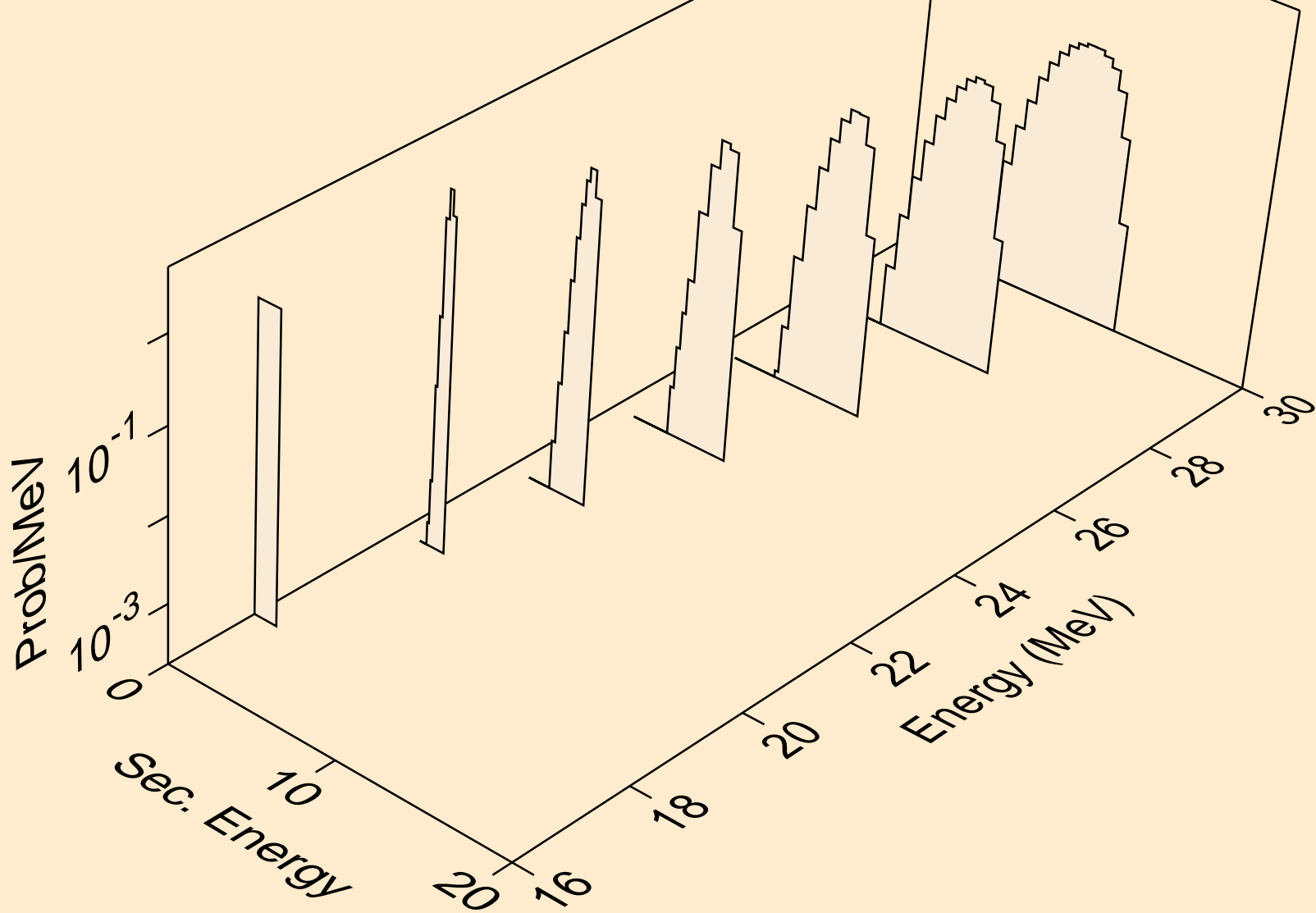
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,pt)



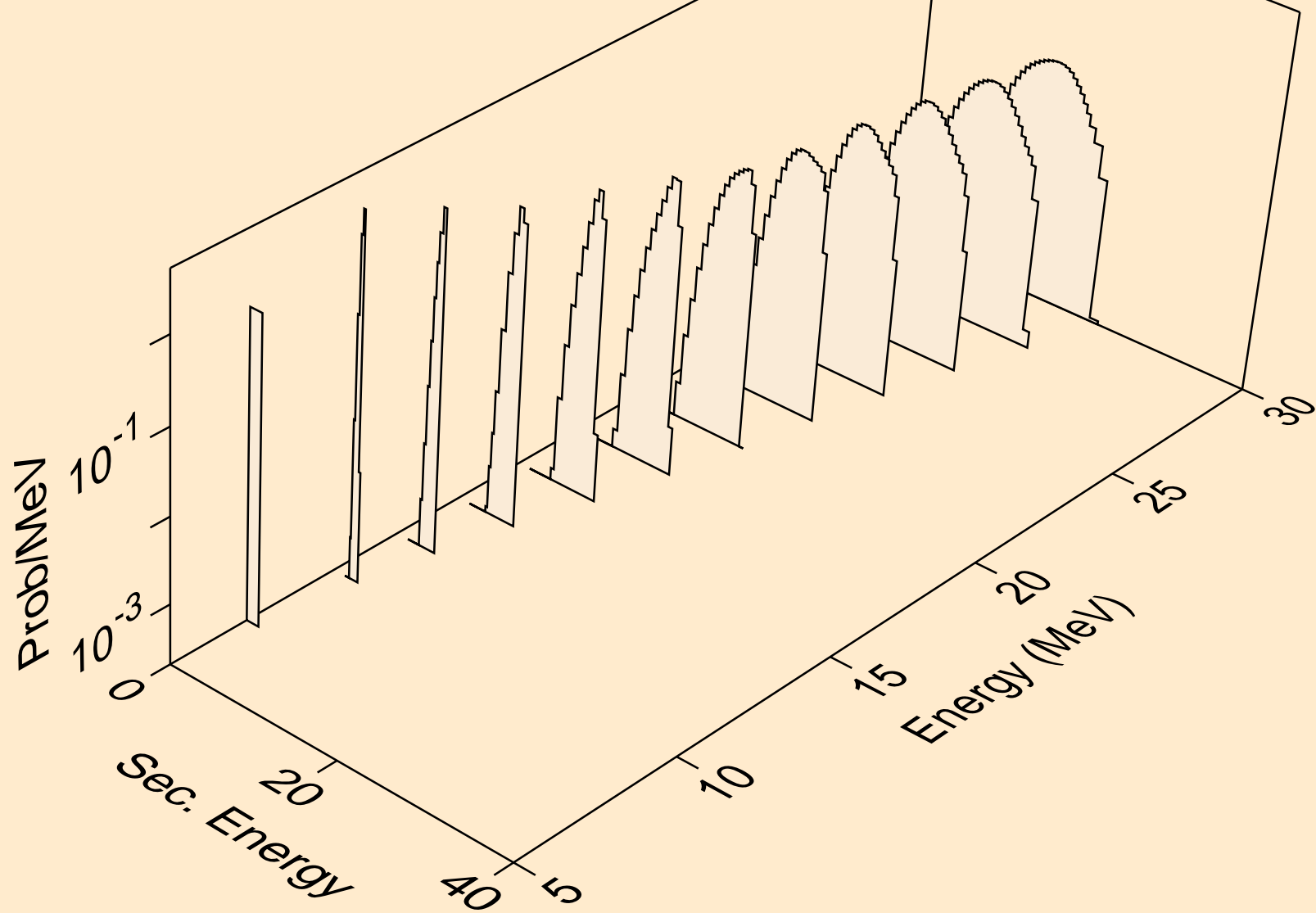
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,x)



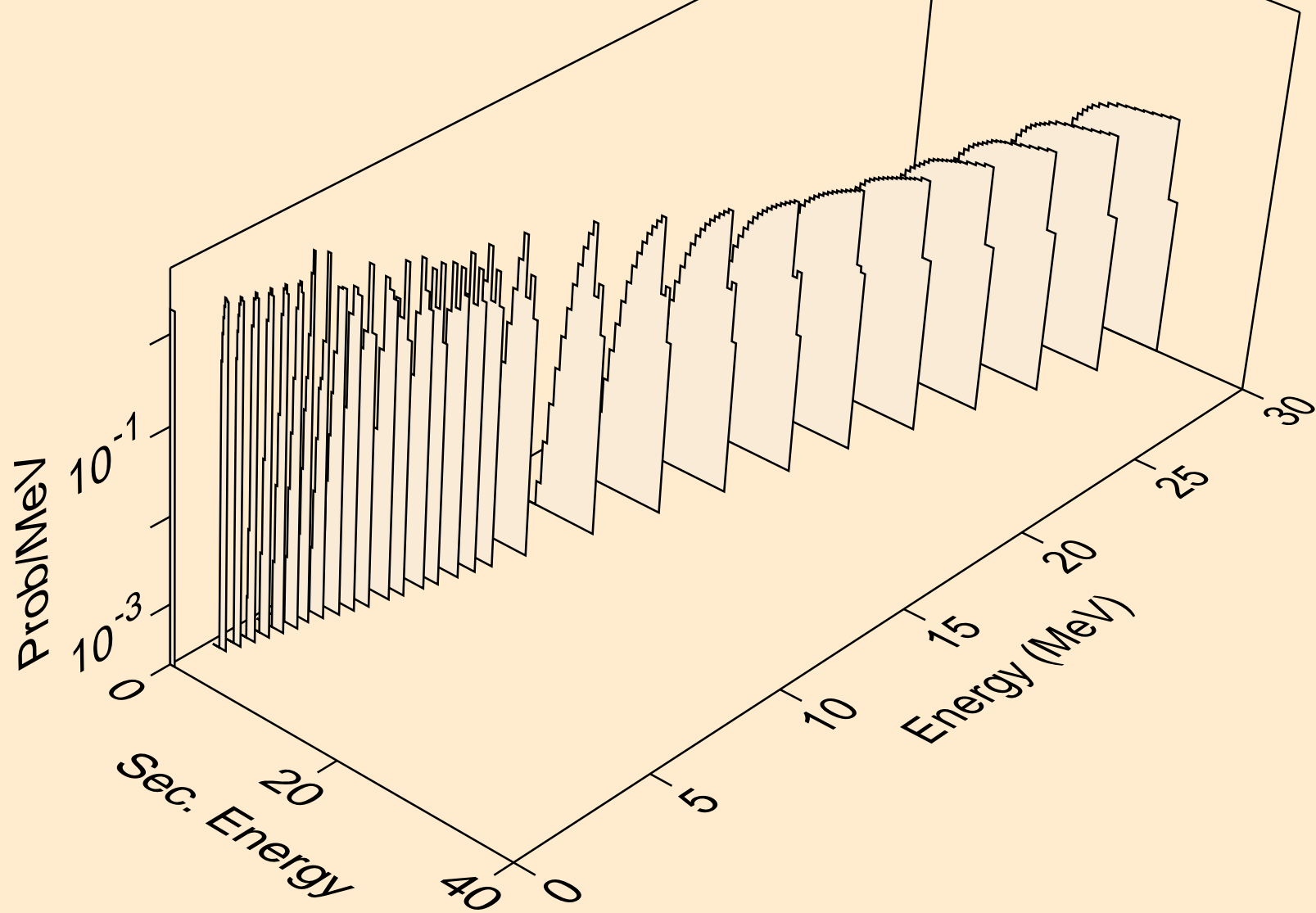
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deuterons from (n,2nd)



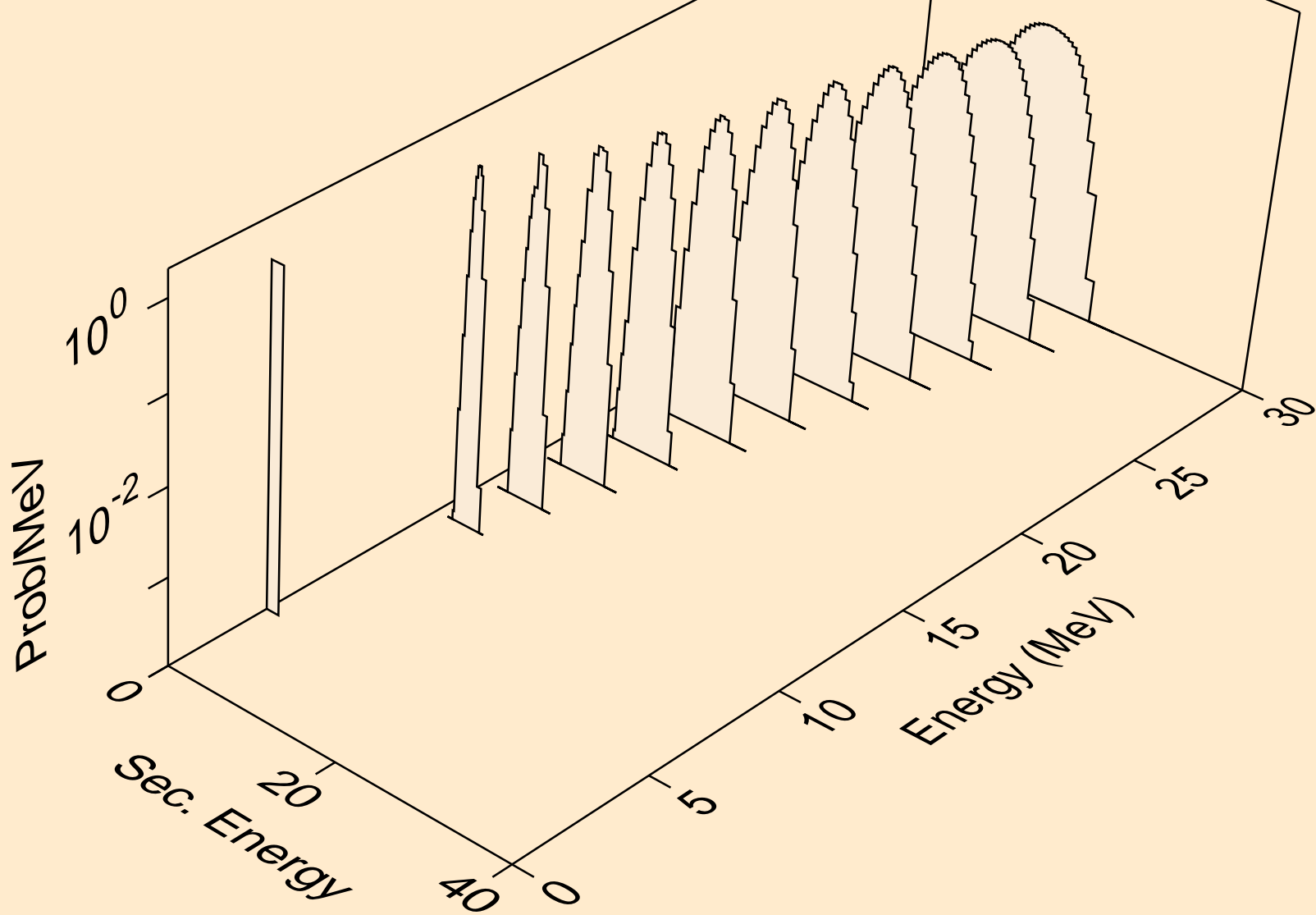
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,n*)d



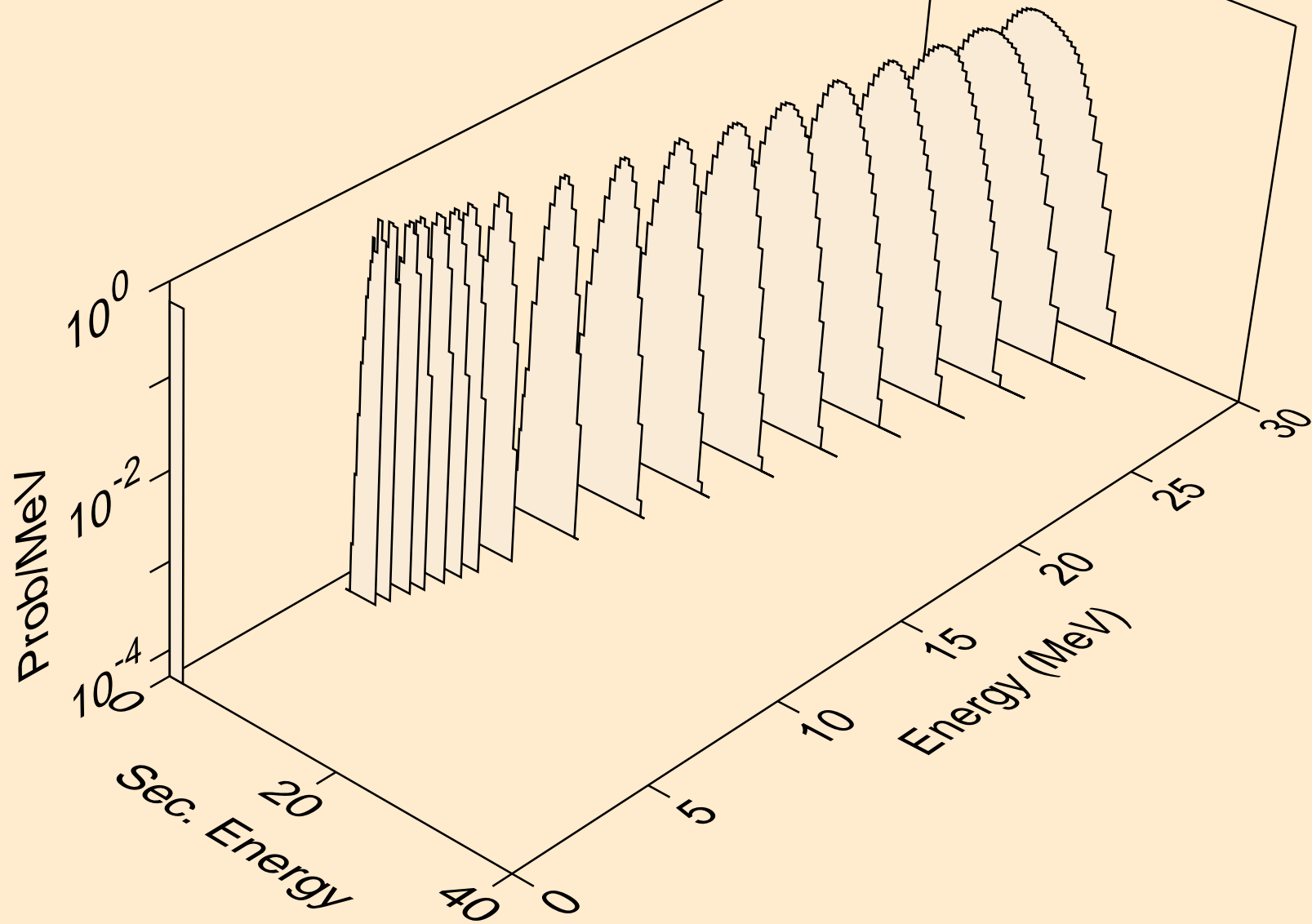
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deuterons from (n,d)



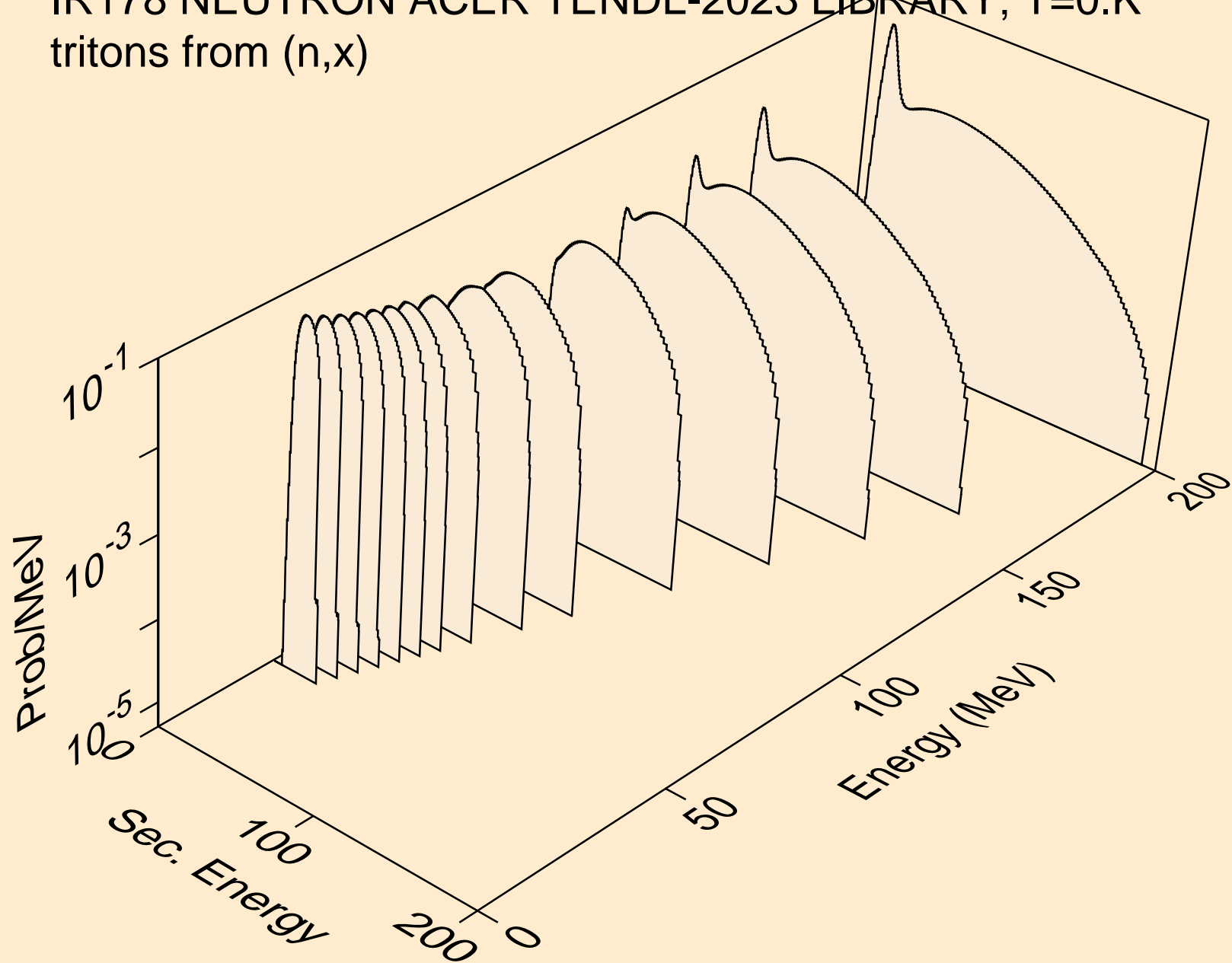
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,pd)



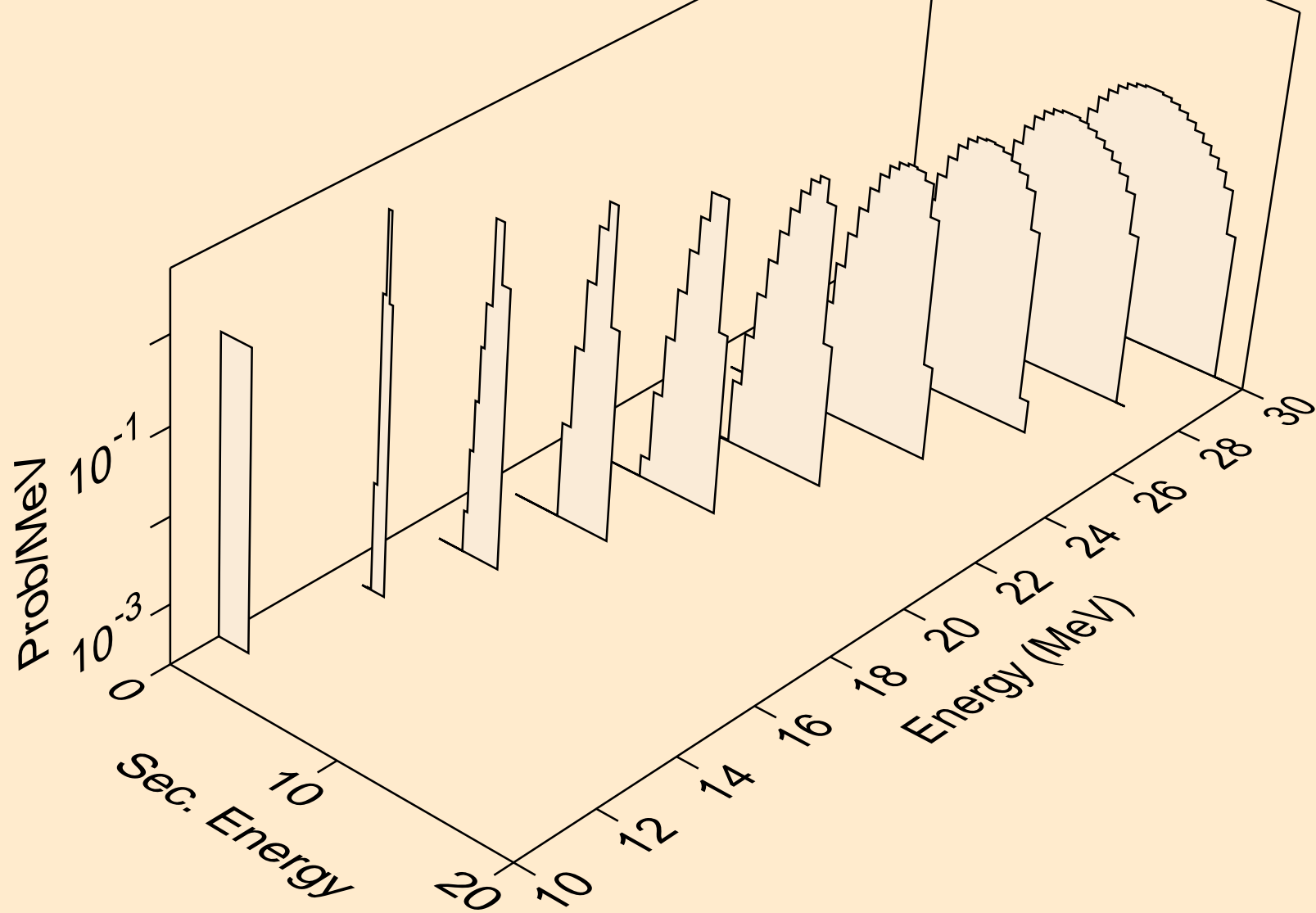
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deuterons from (n,da)



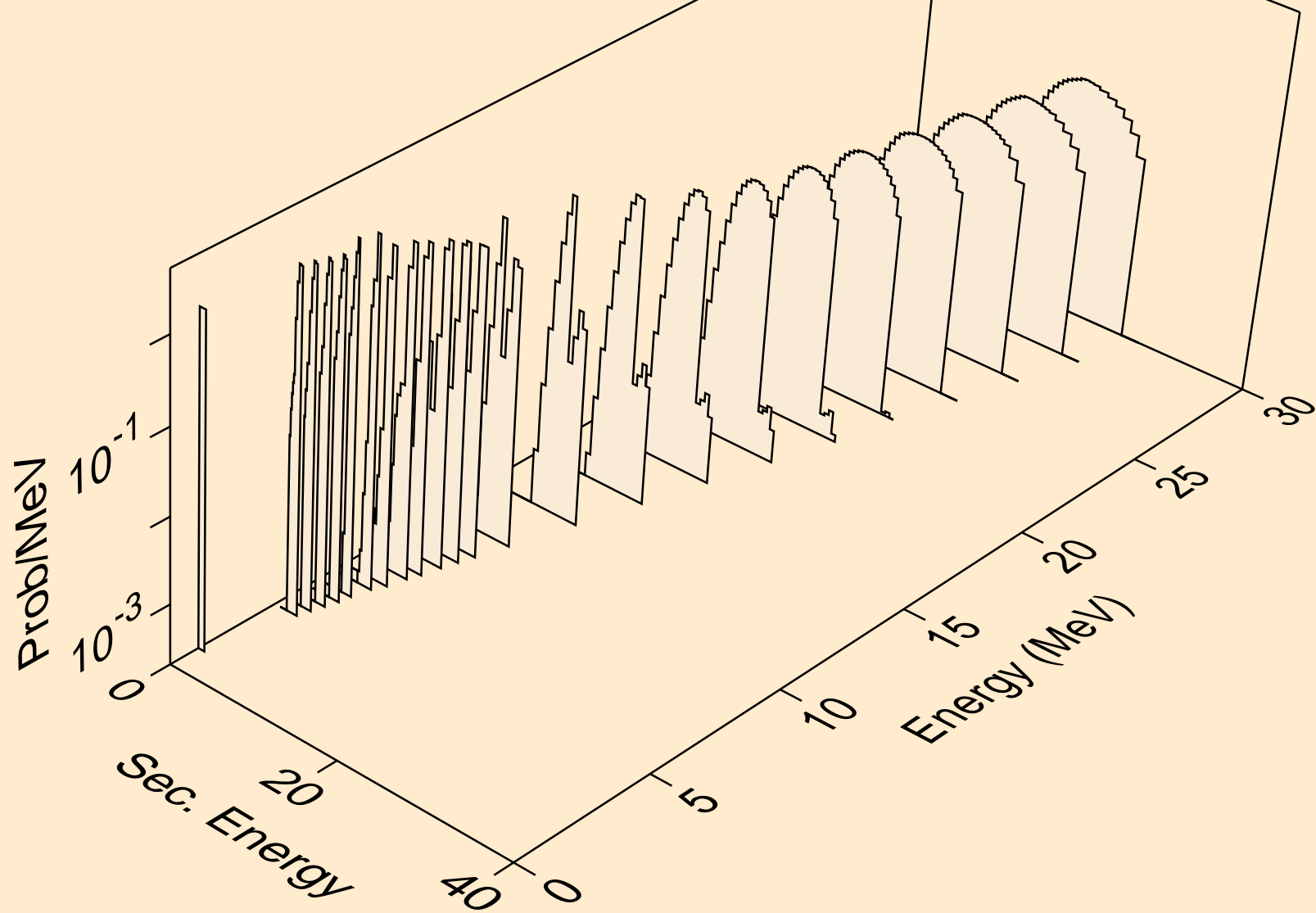
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,x)



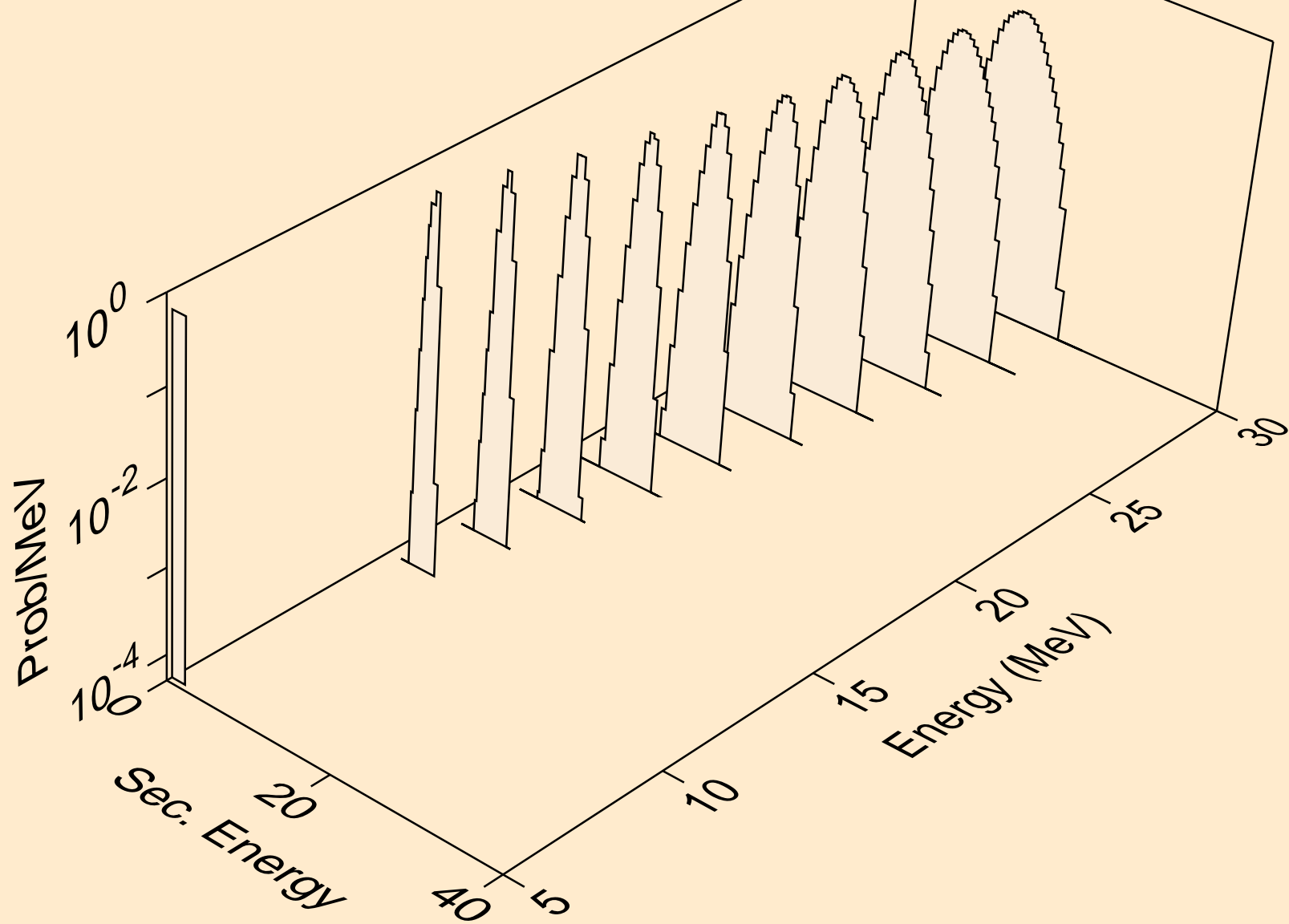
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,n*)t



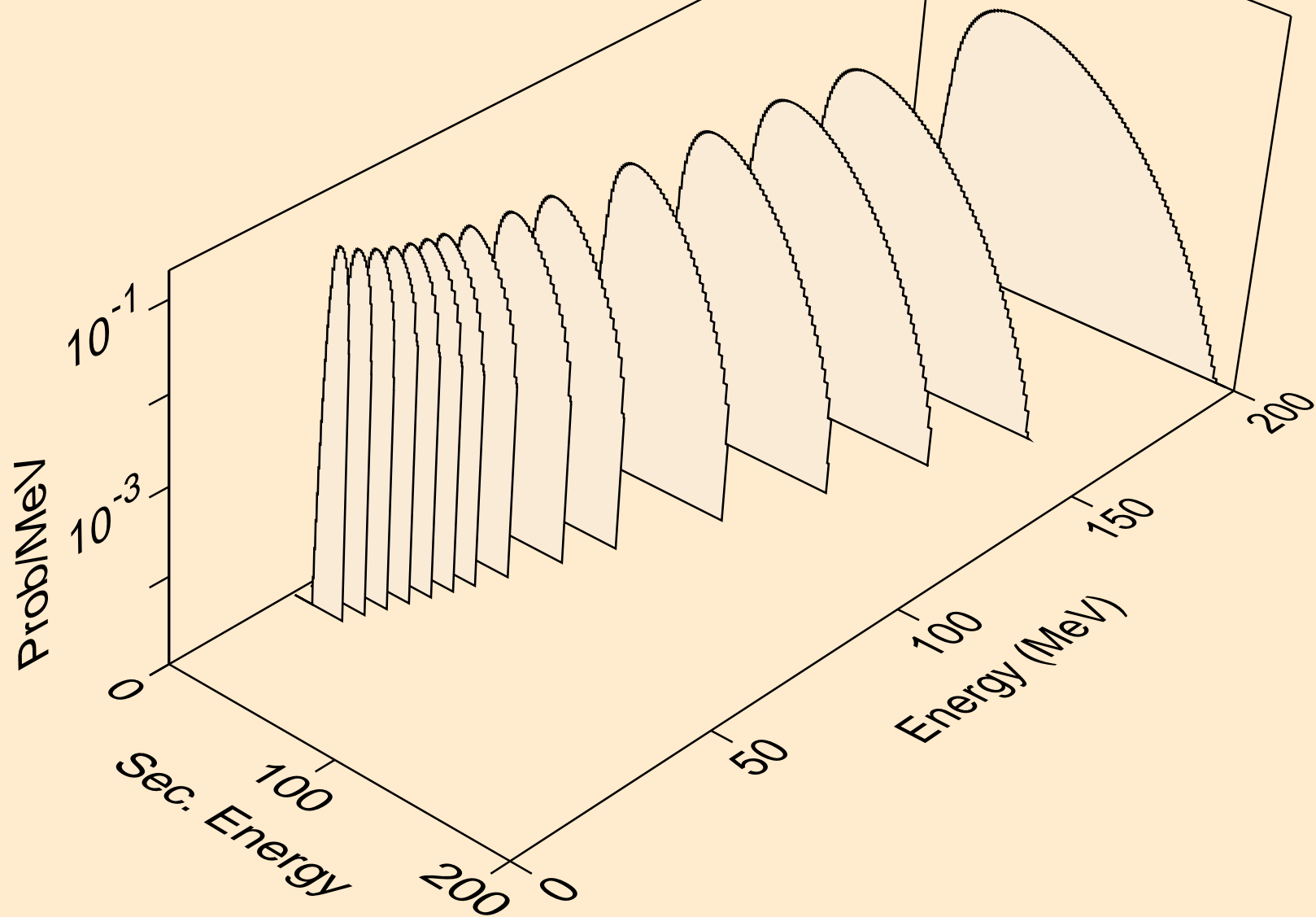
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tritons from (n,t)



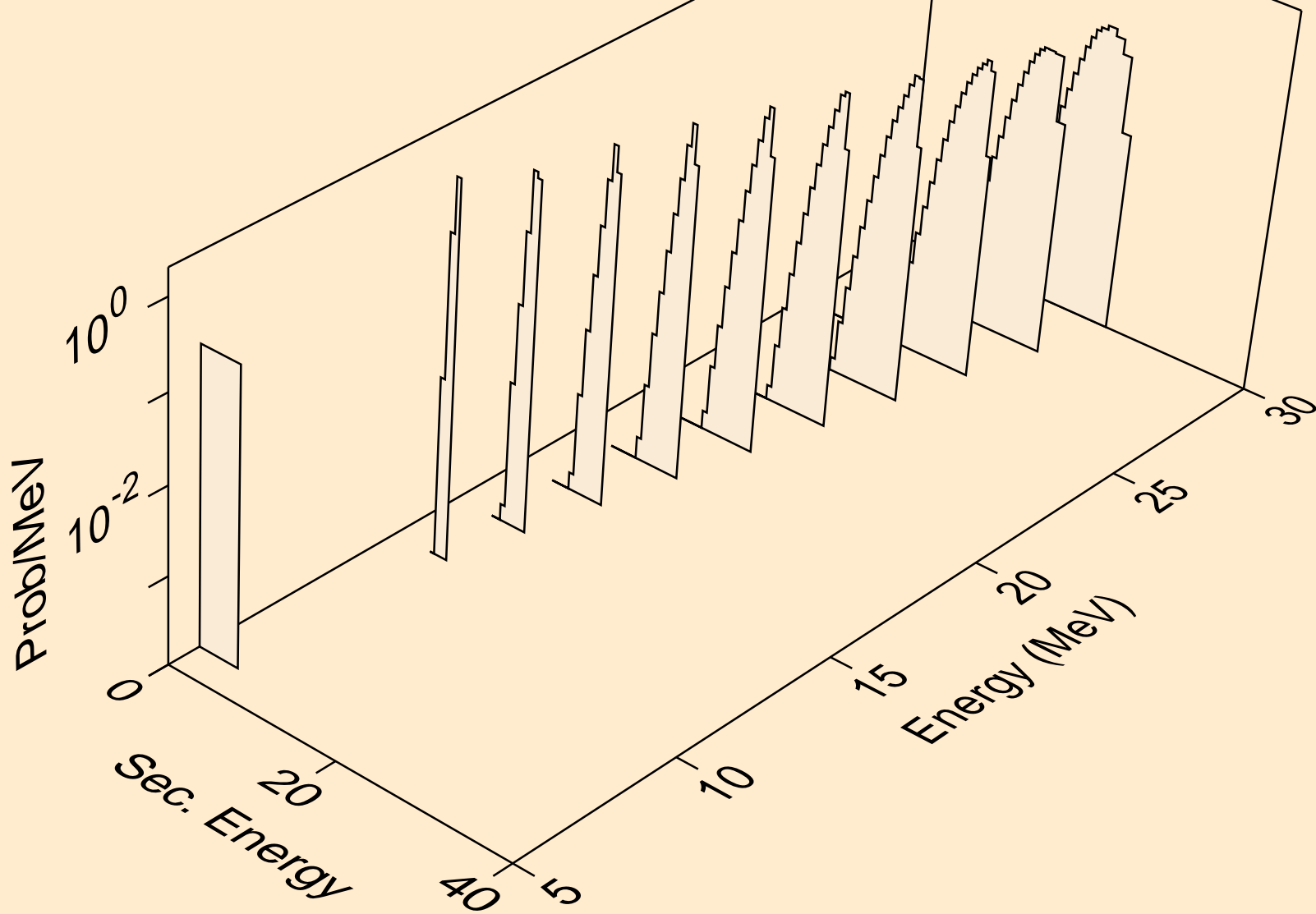
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tritons from (n,pt)



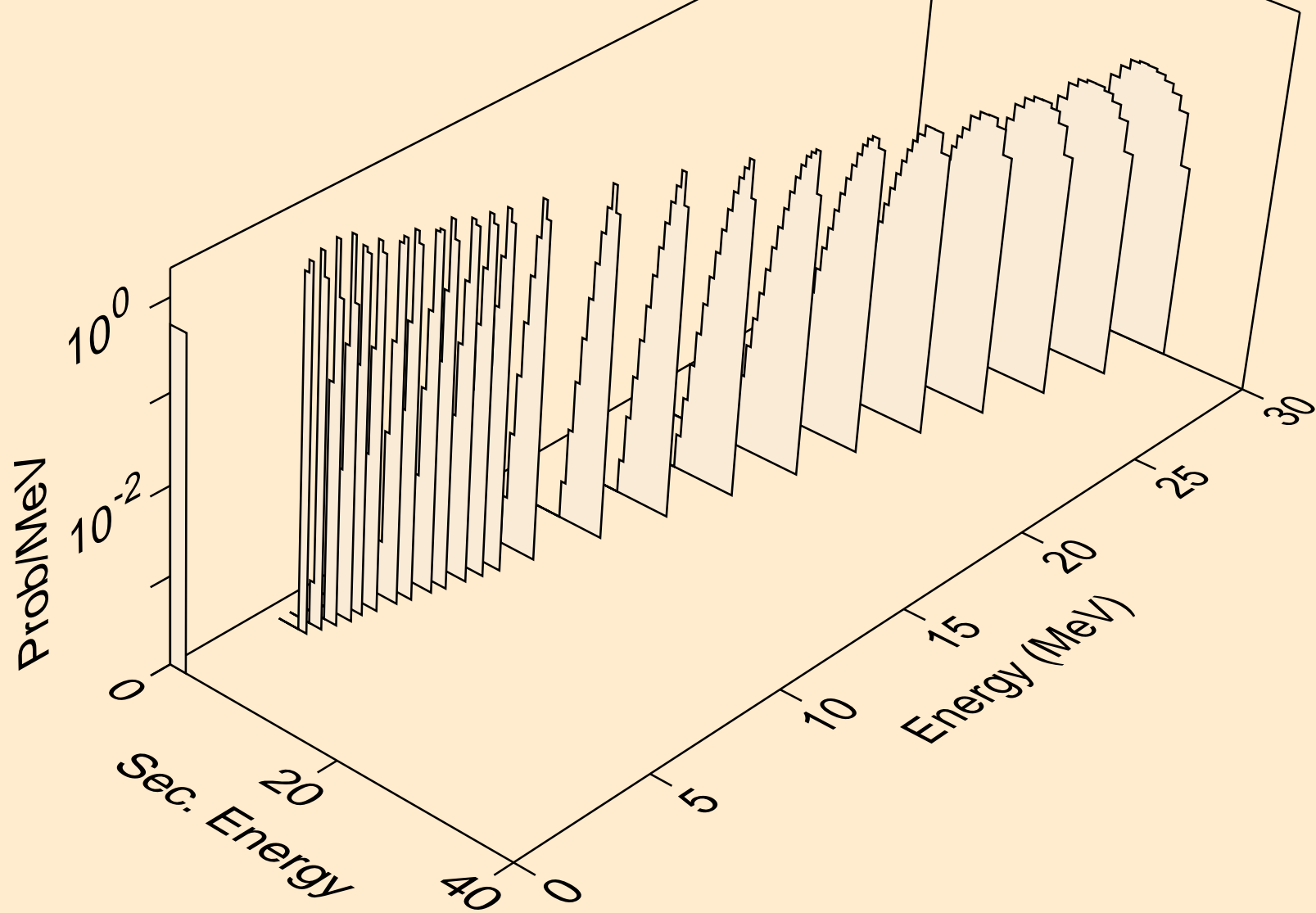
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,x)



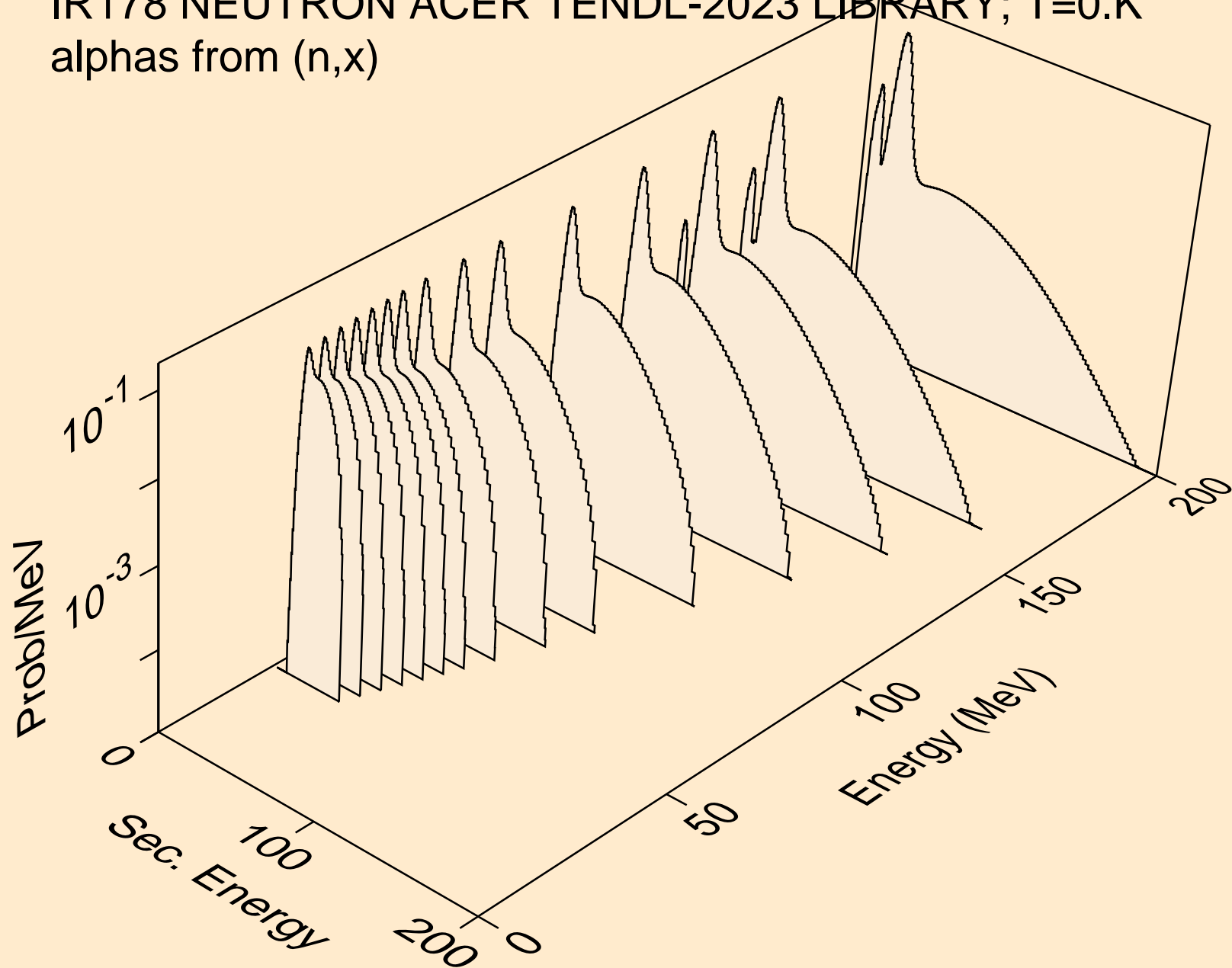
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,n*)he3



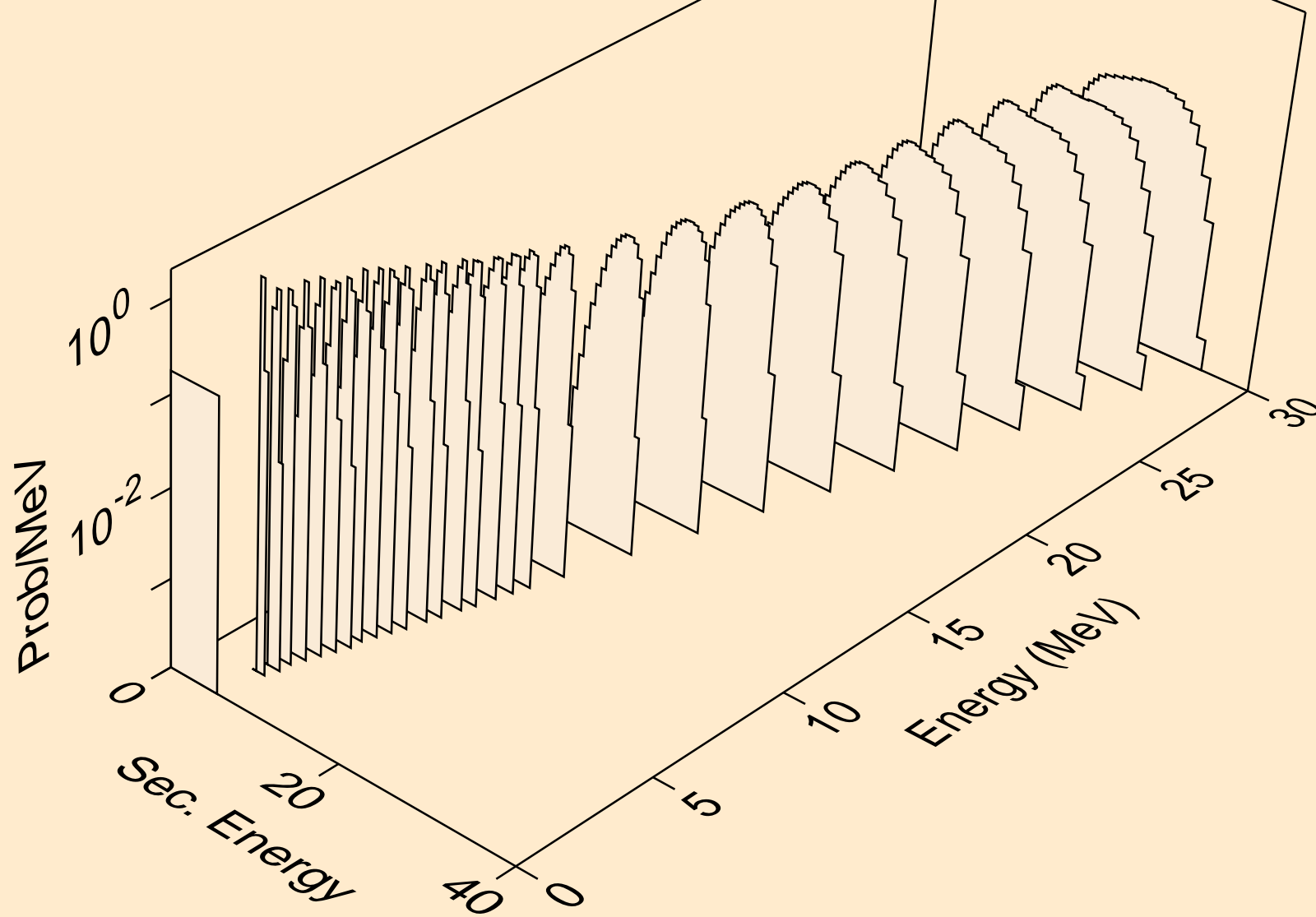
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,he3)



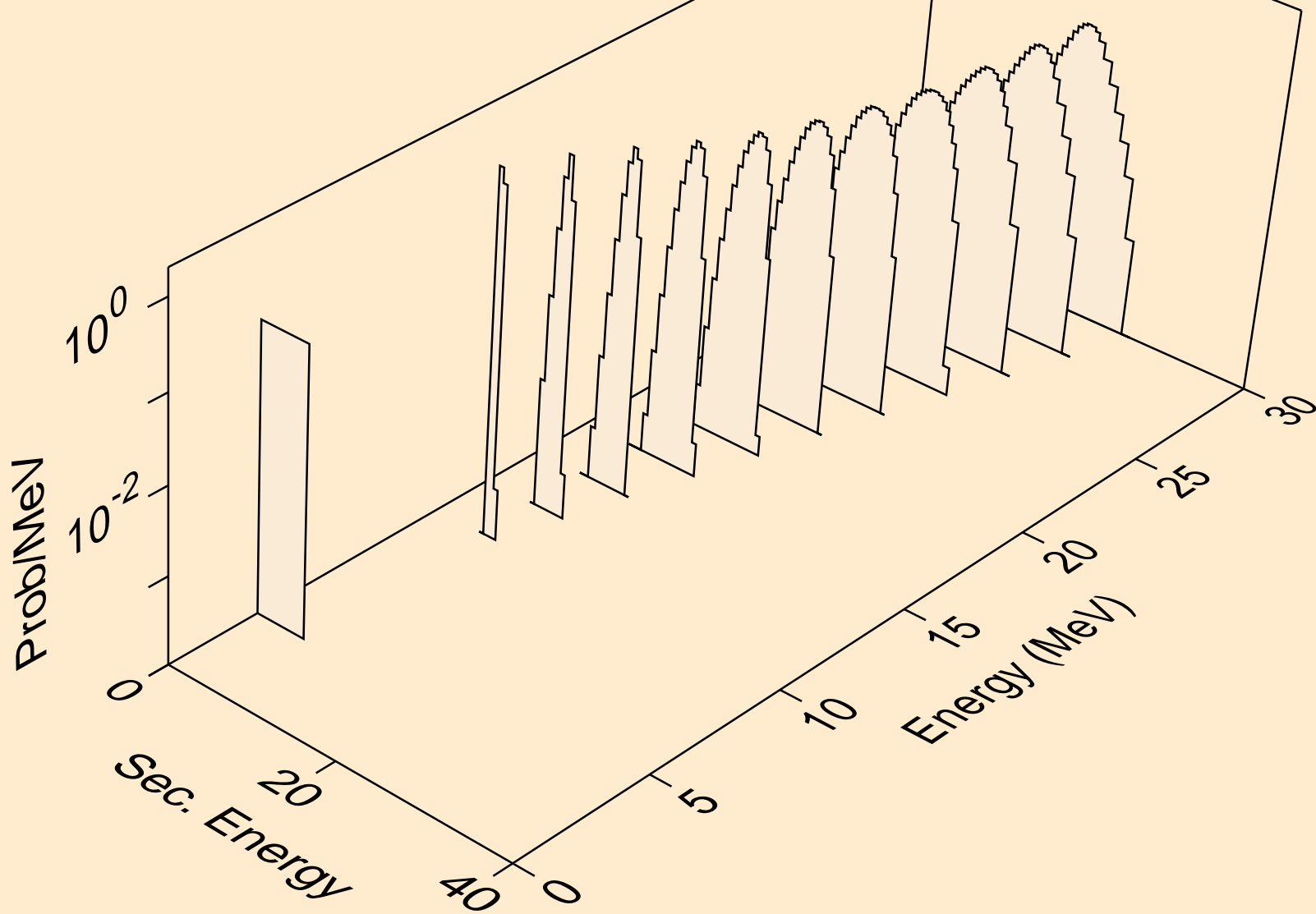
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,x)



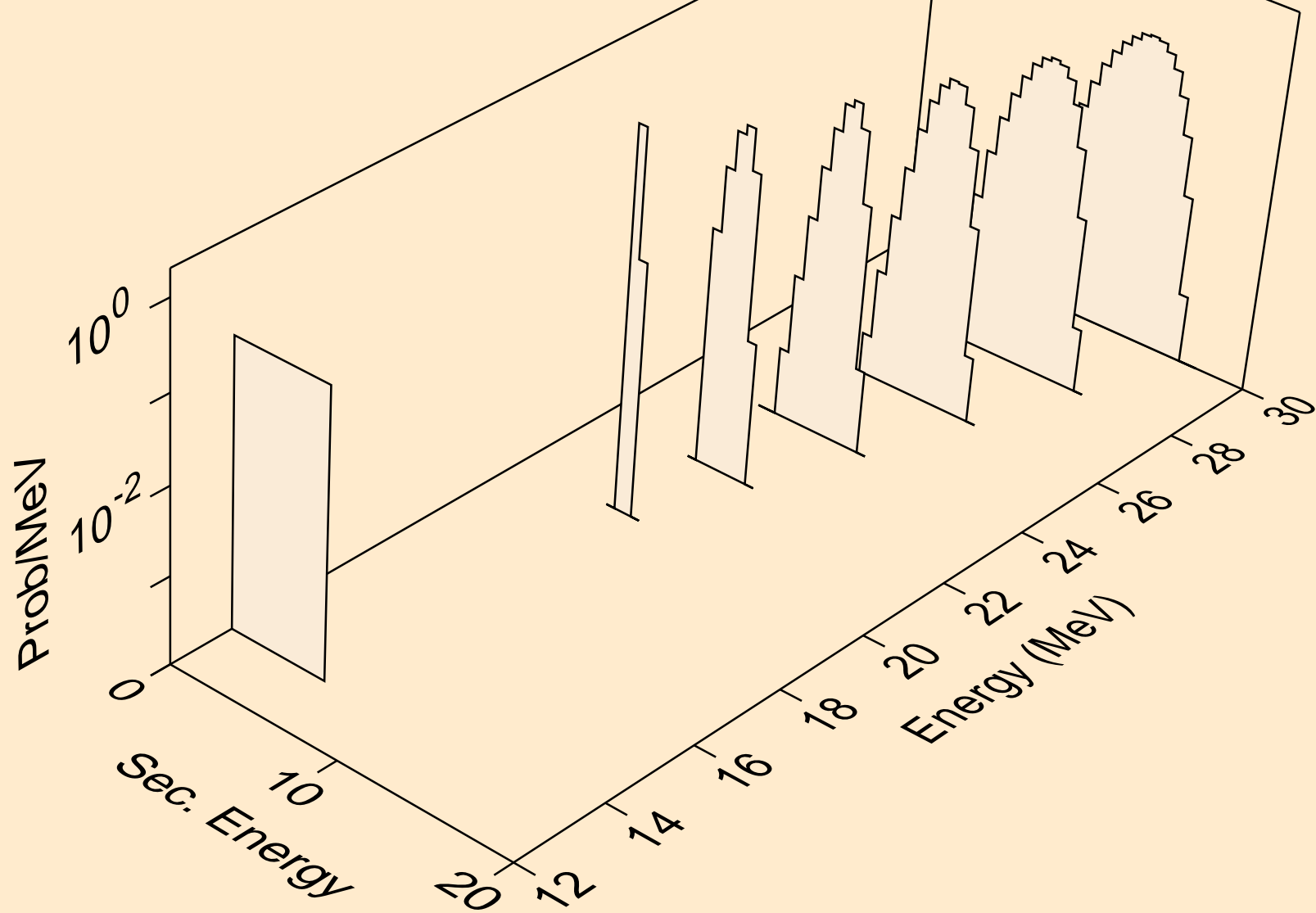
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,n*)a



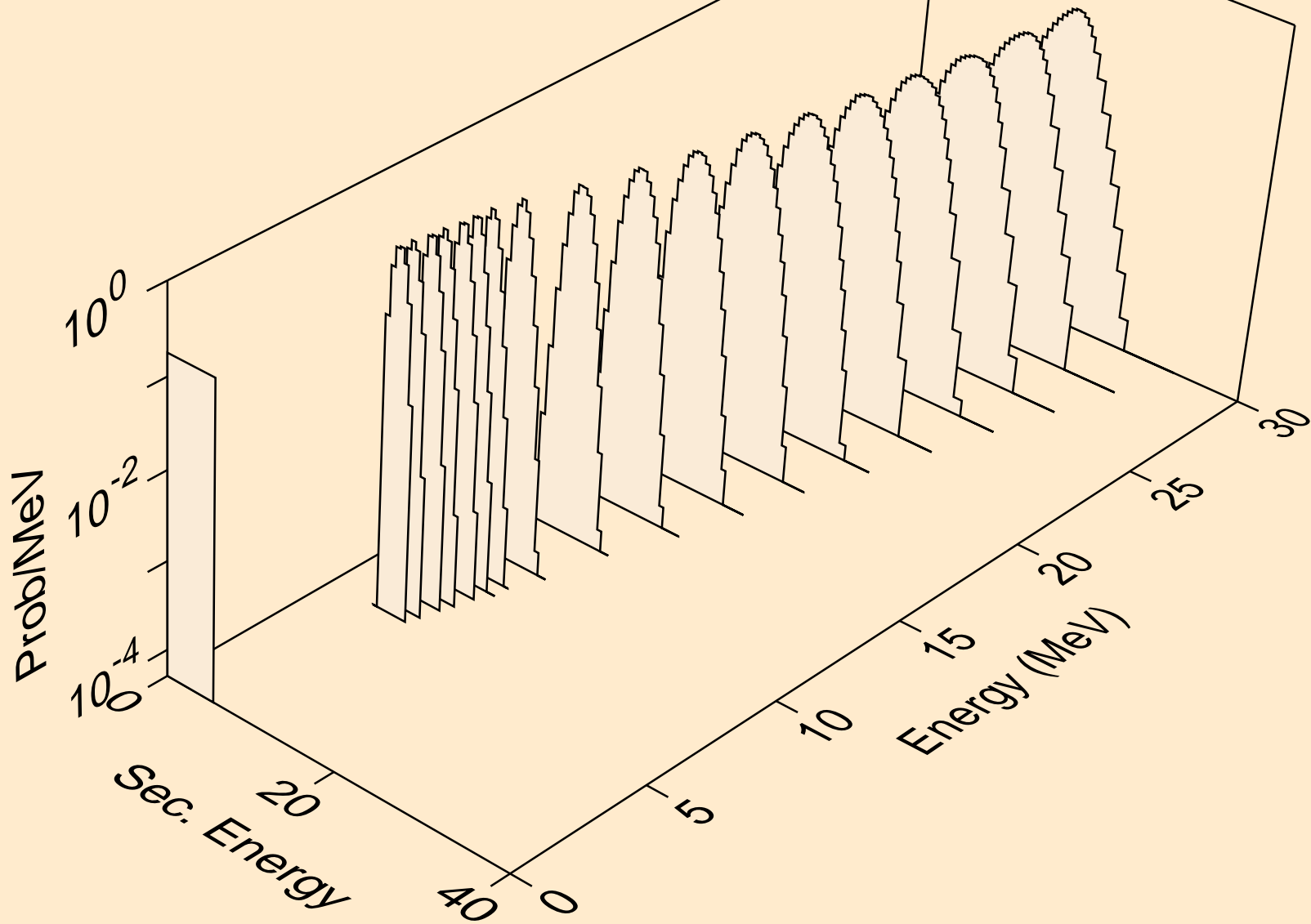
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2n)a



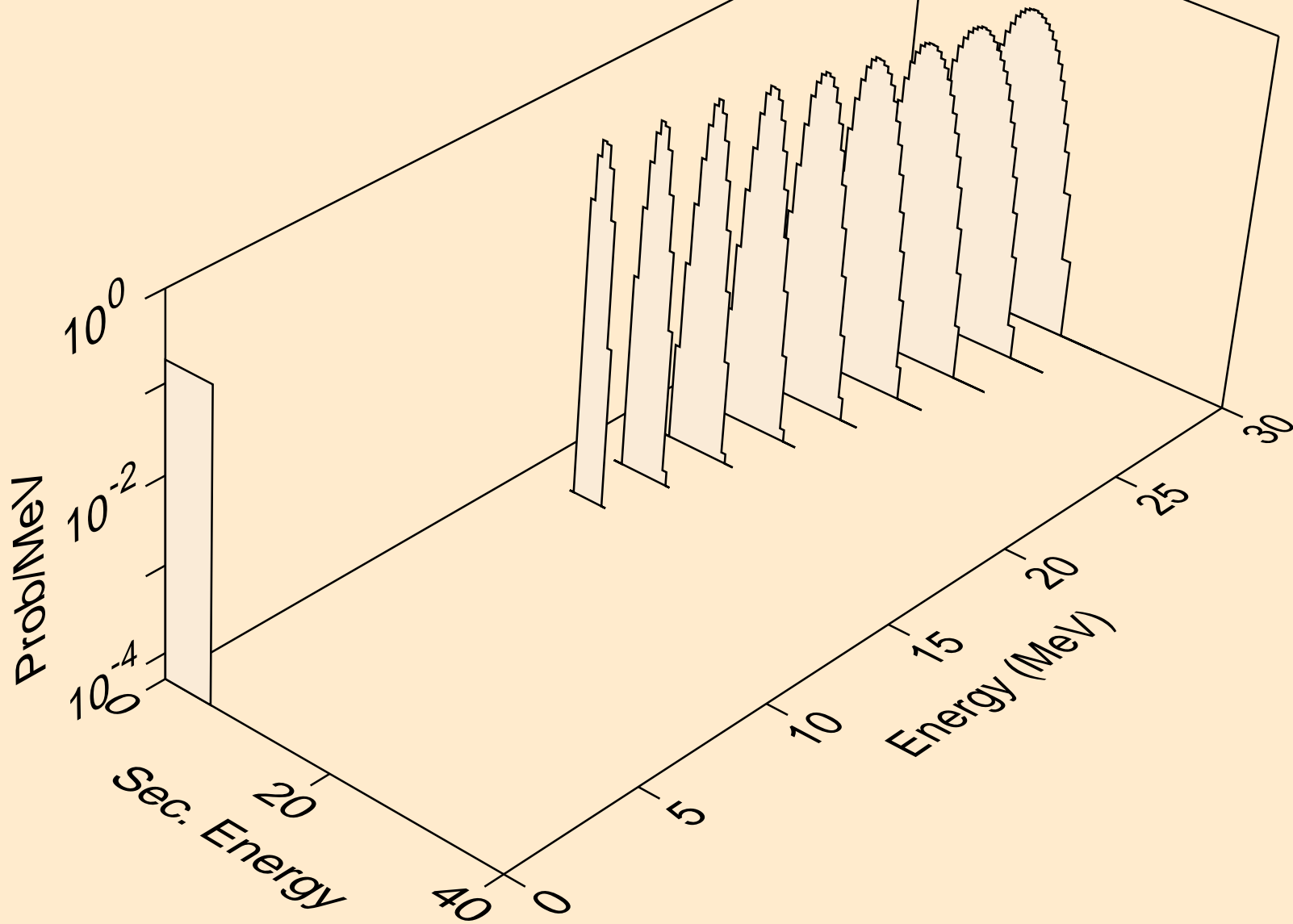
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,3n)a



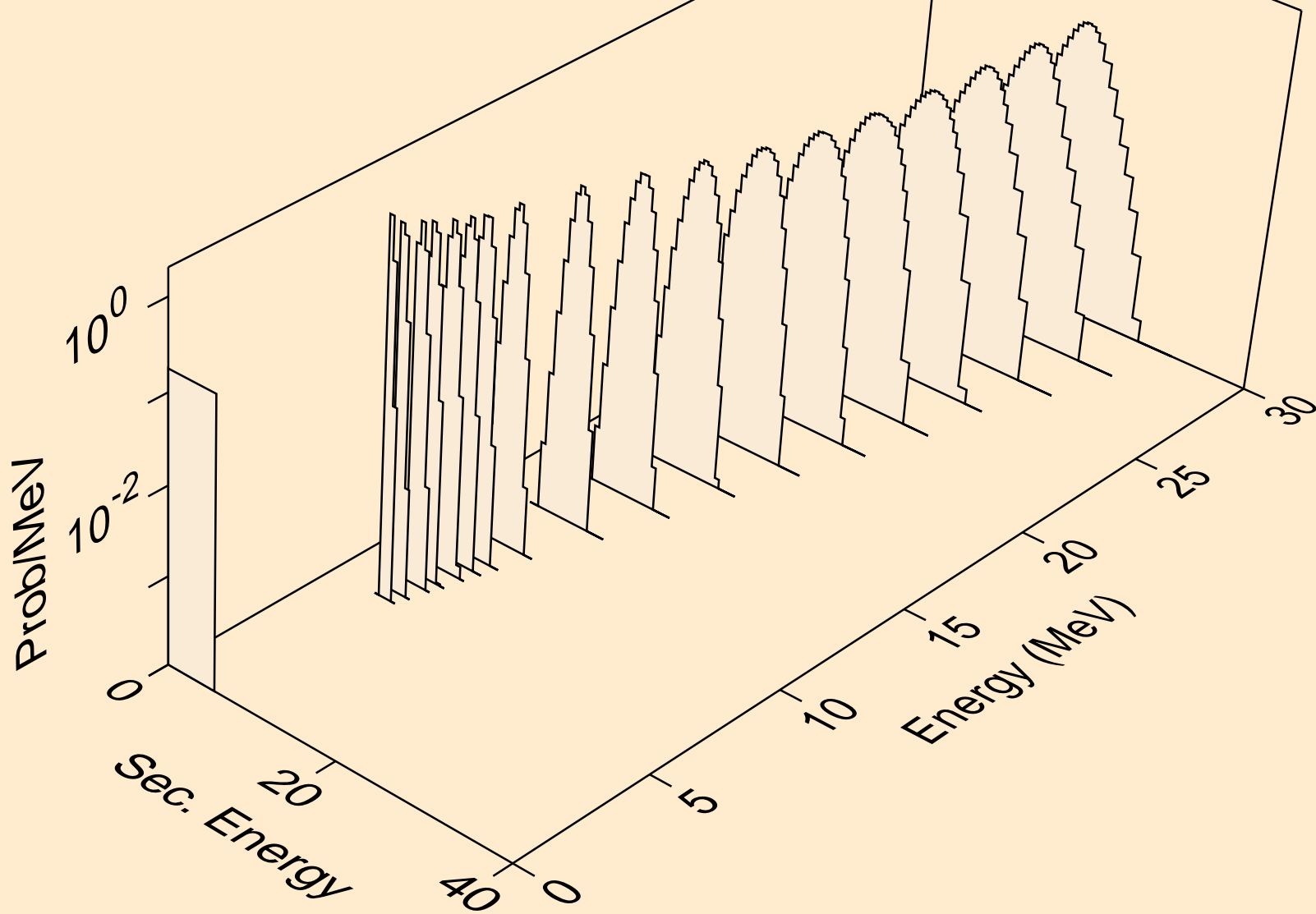
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,n*)2a



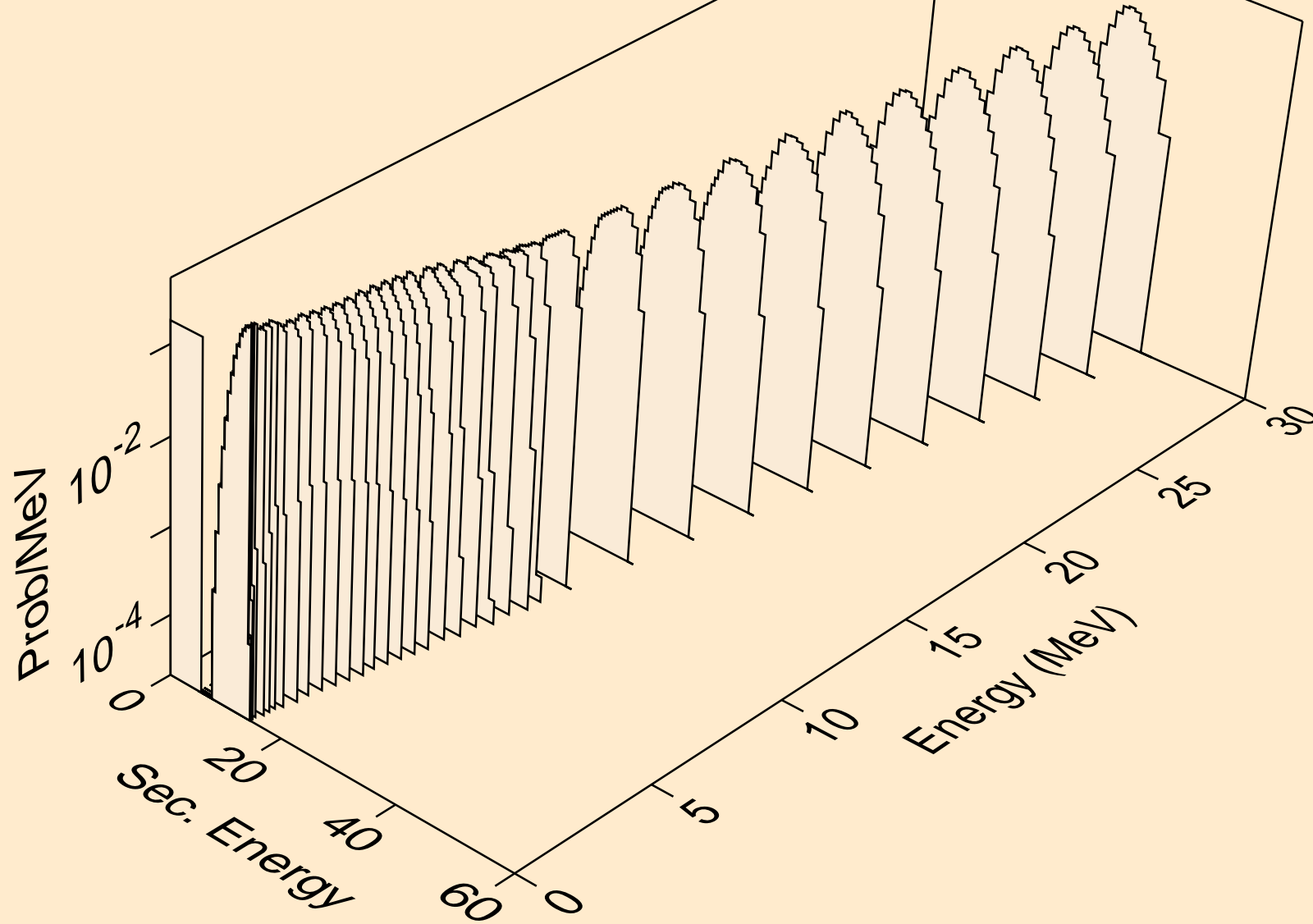
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2n)2a



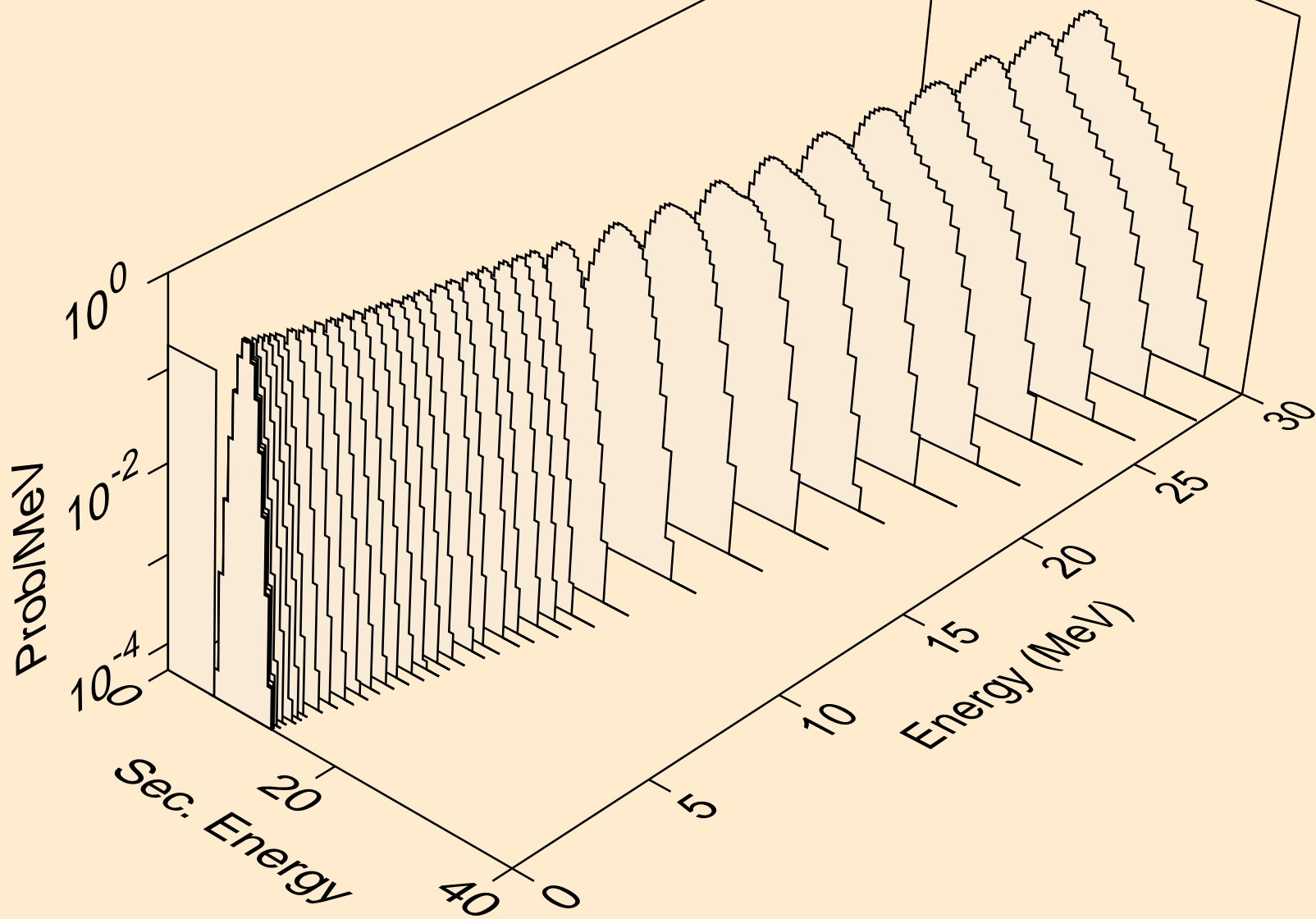
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,npa)



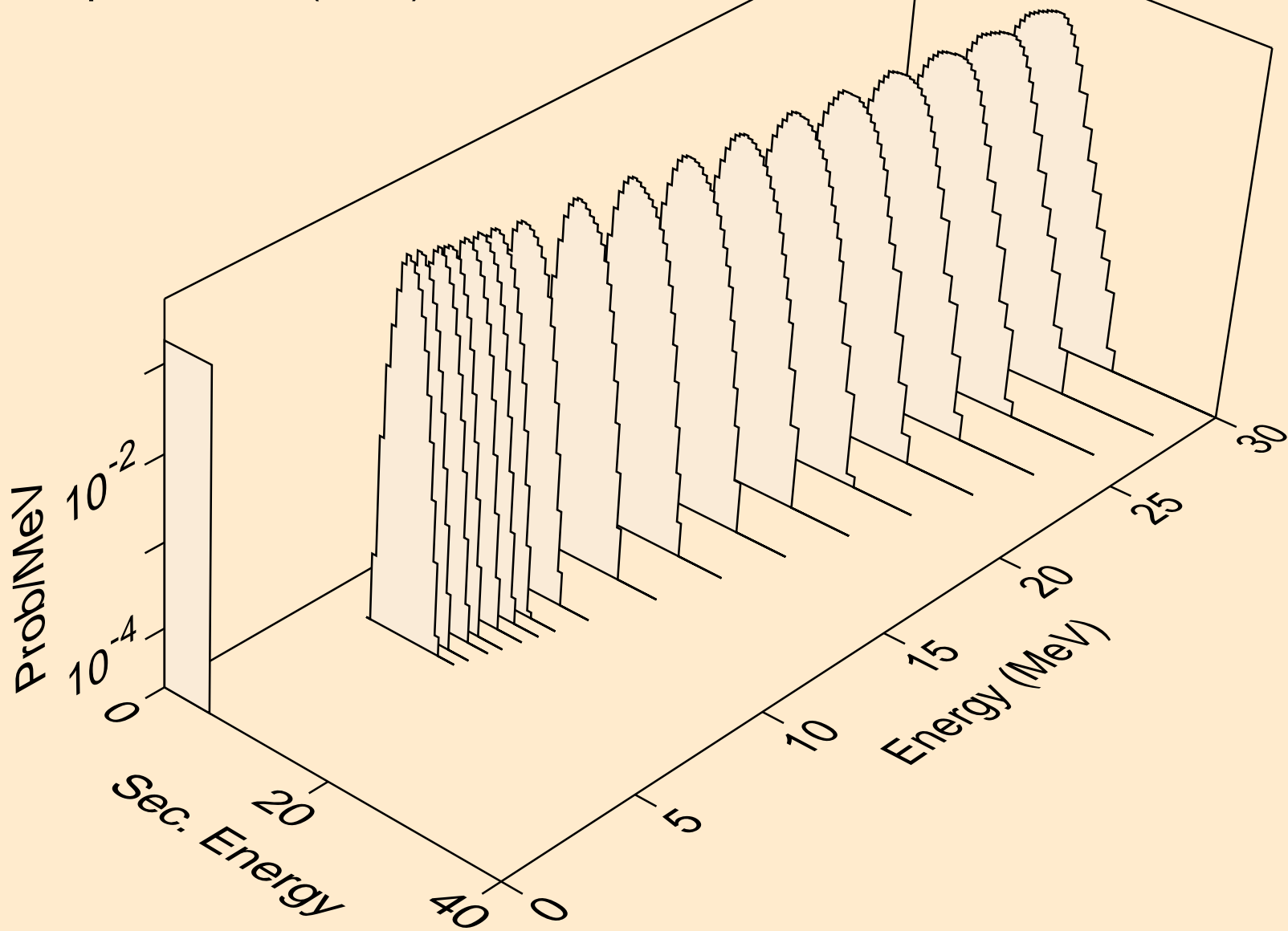
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,a)



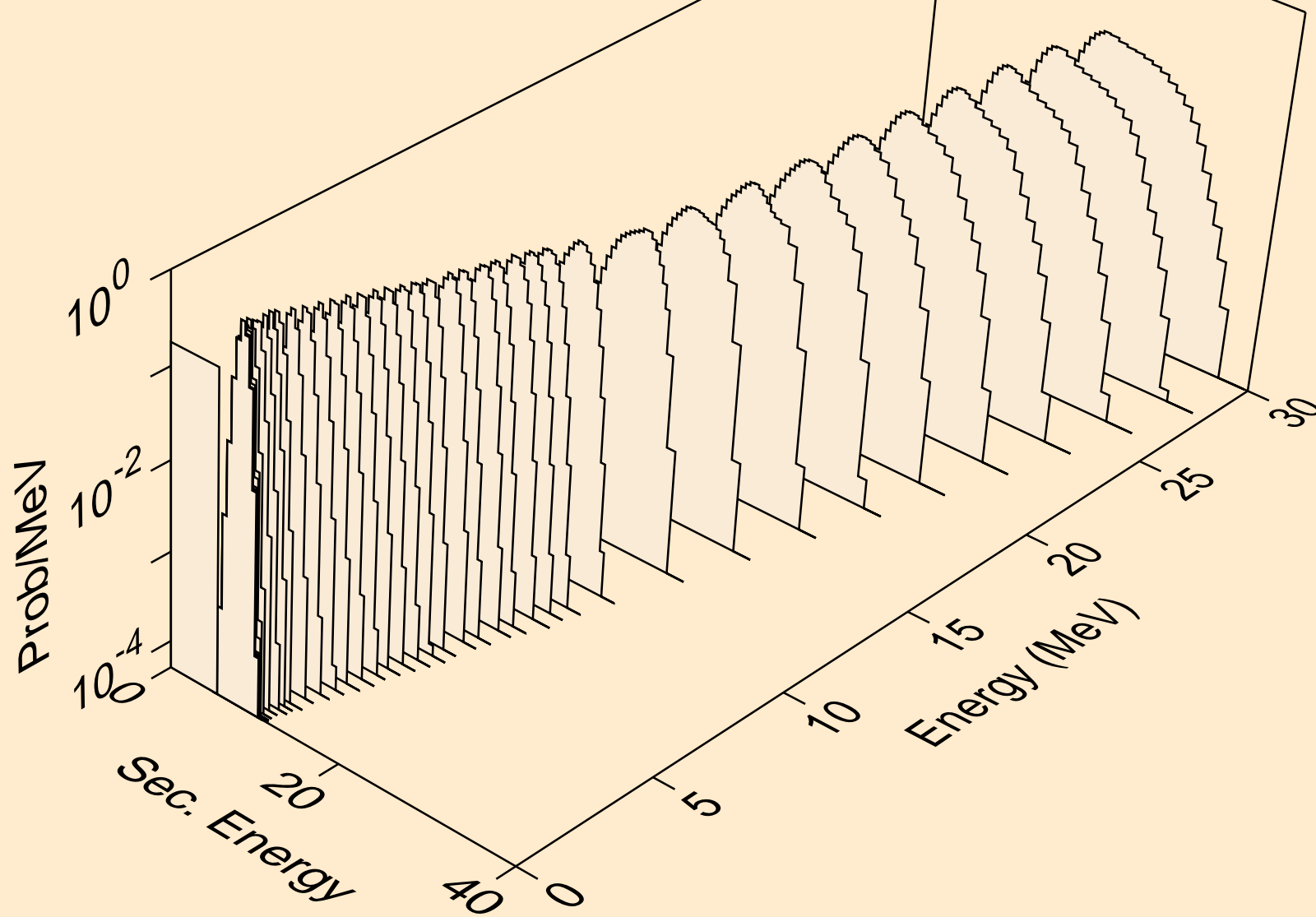
IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2a)



IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,3a)



IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,pa)



IR178 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,da)

