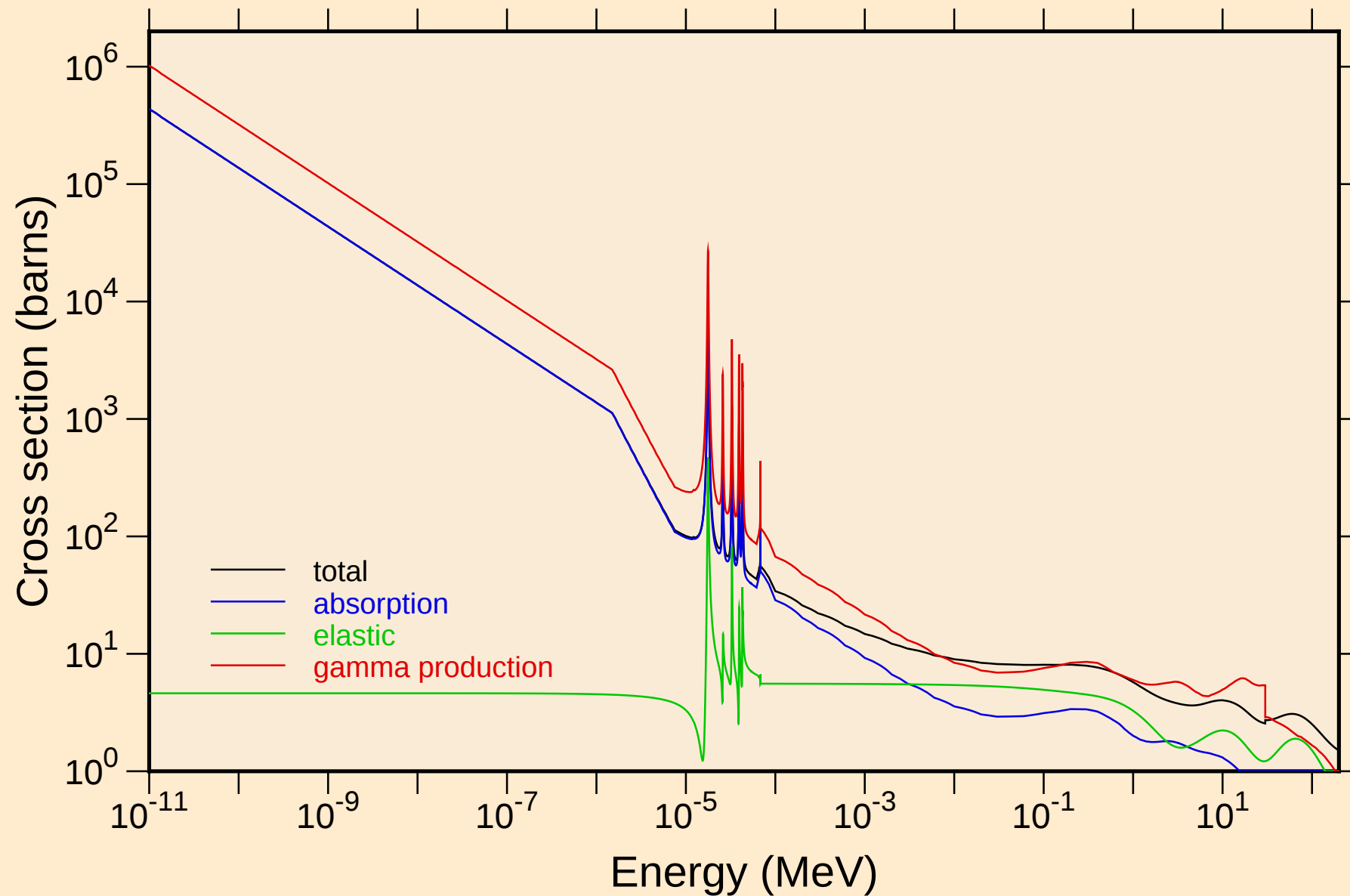
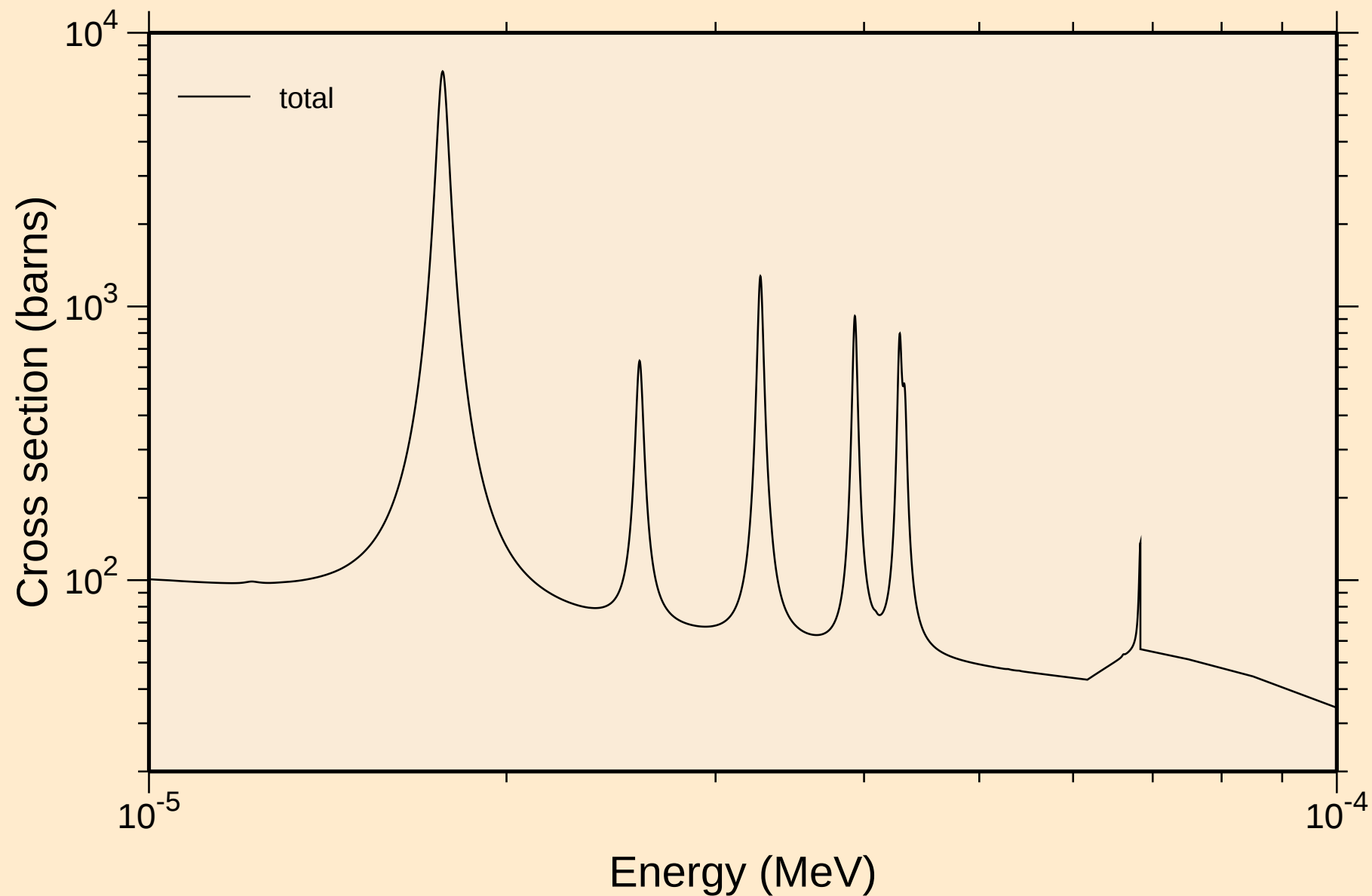


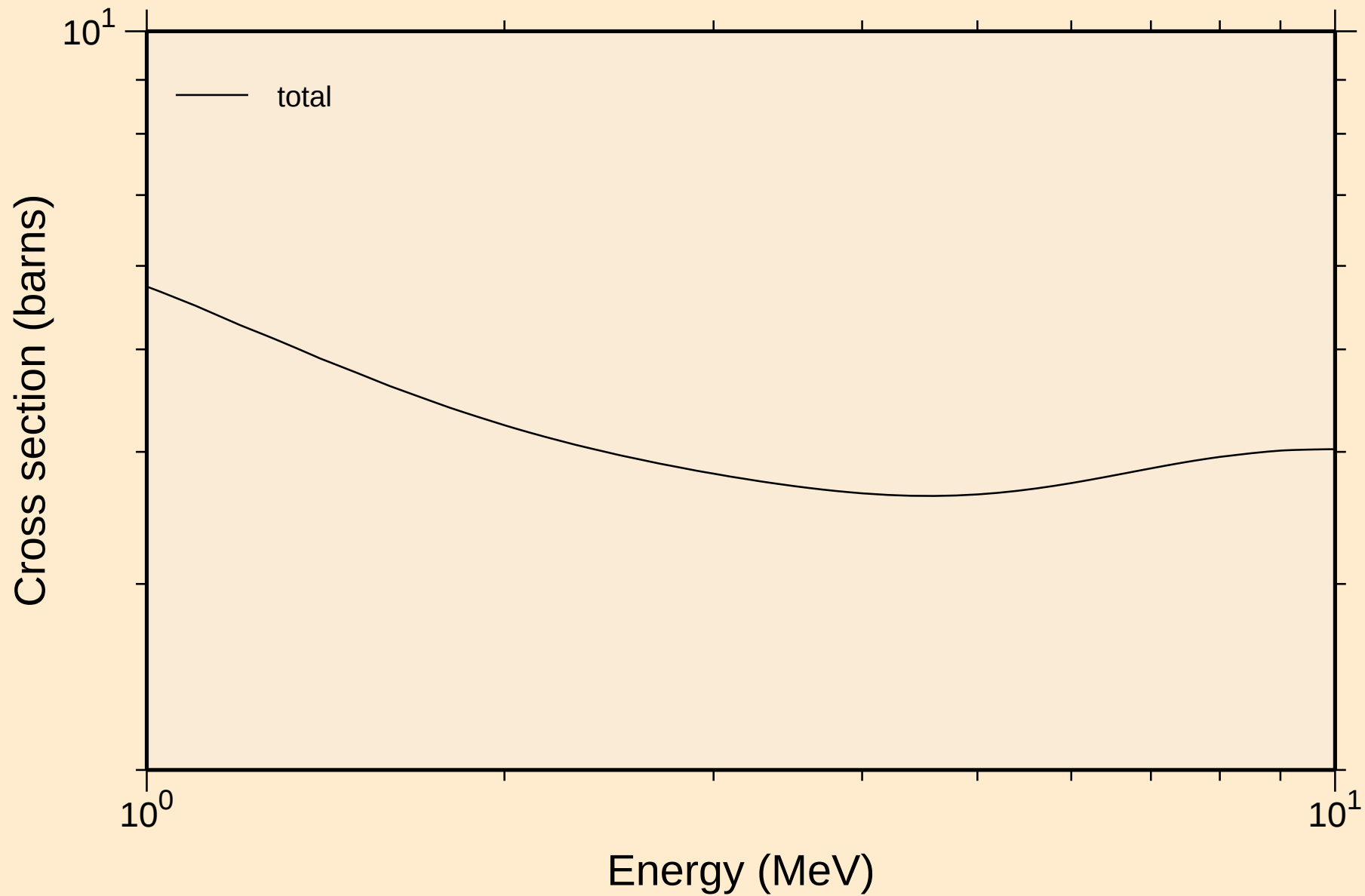
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Principal cross sections



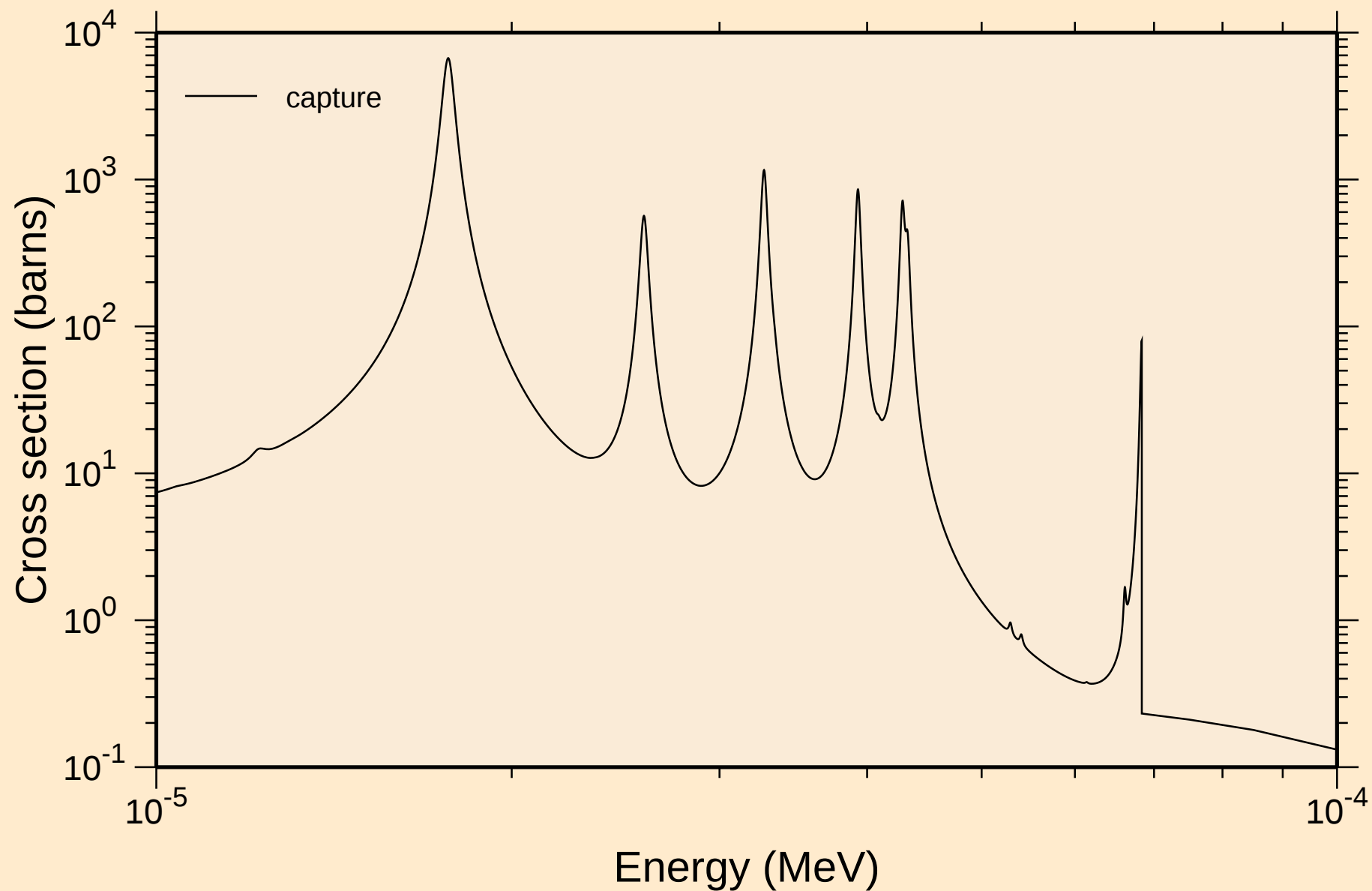
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance total cross section



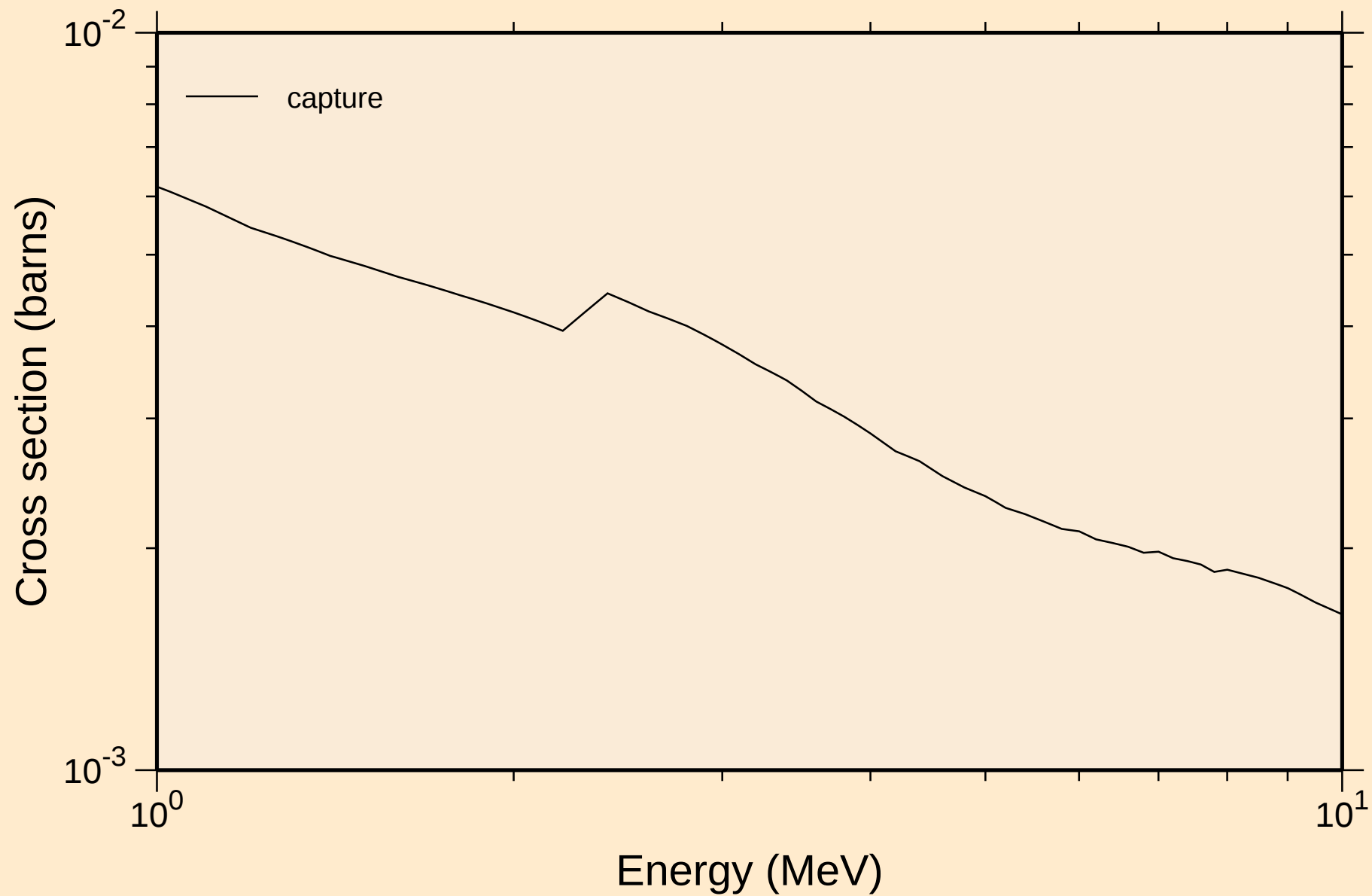
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance total cross section



ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections

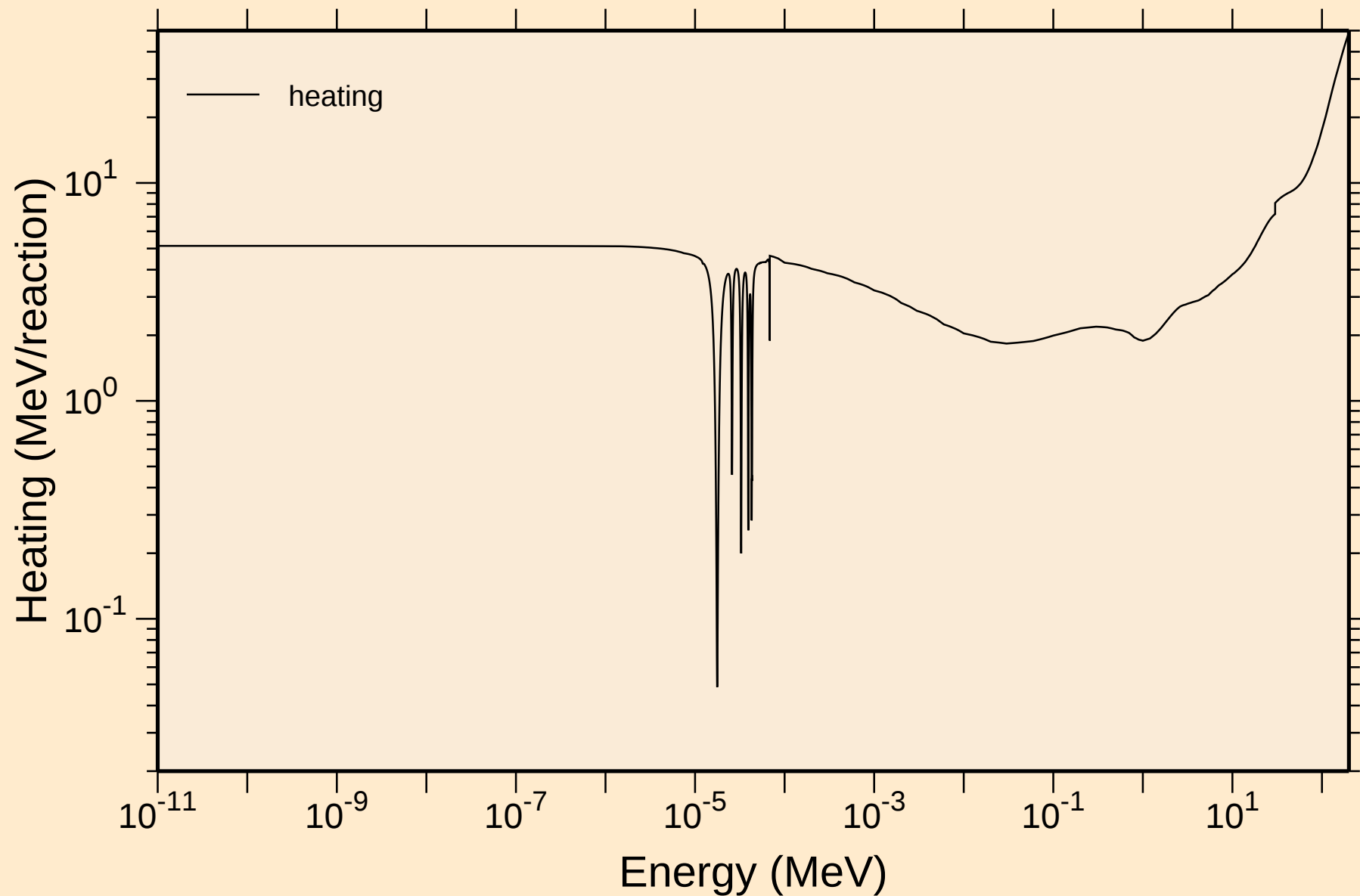


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections



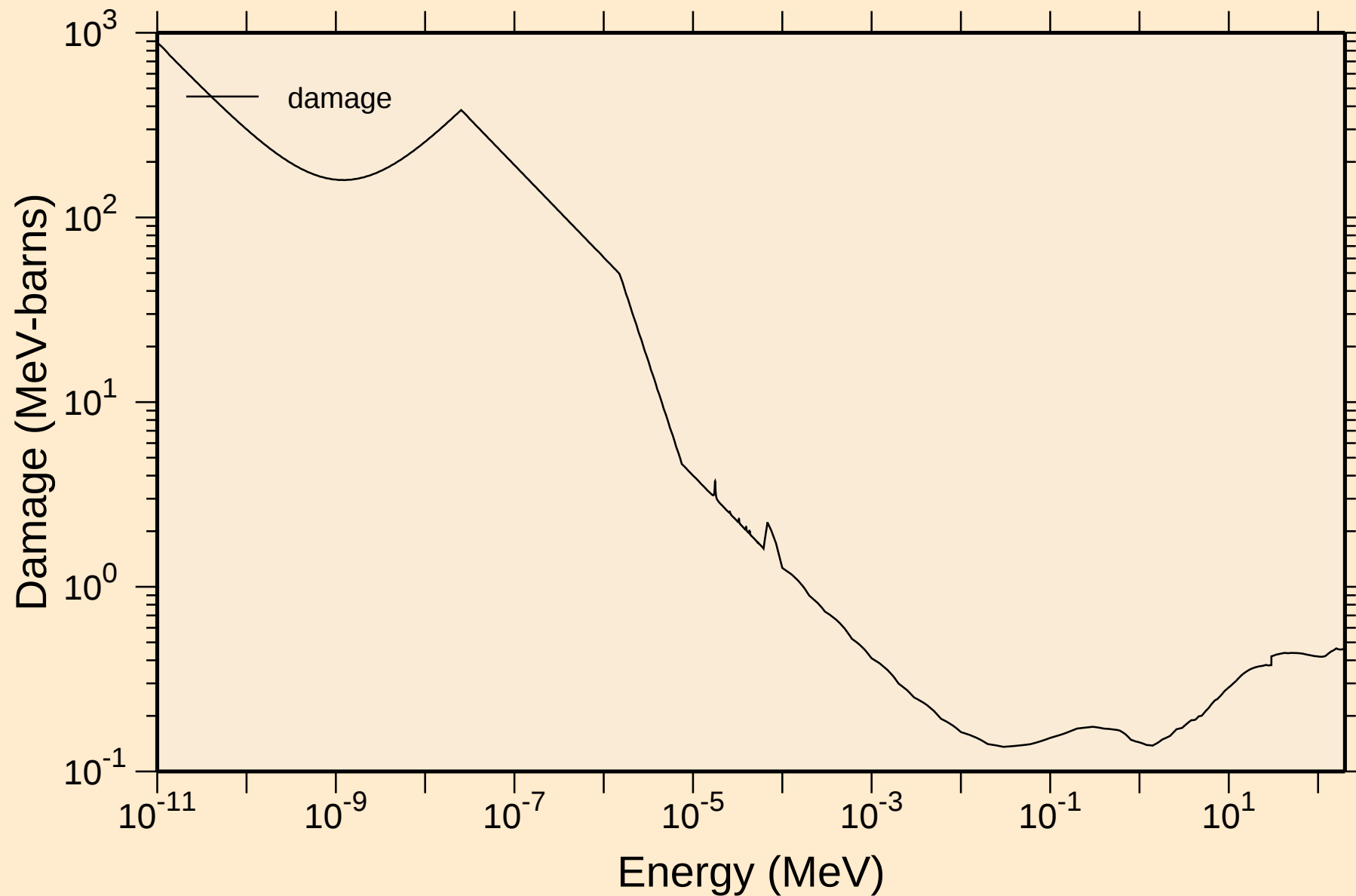
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Heating



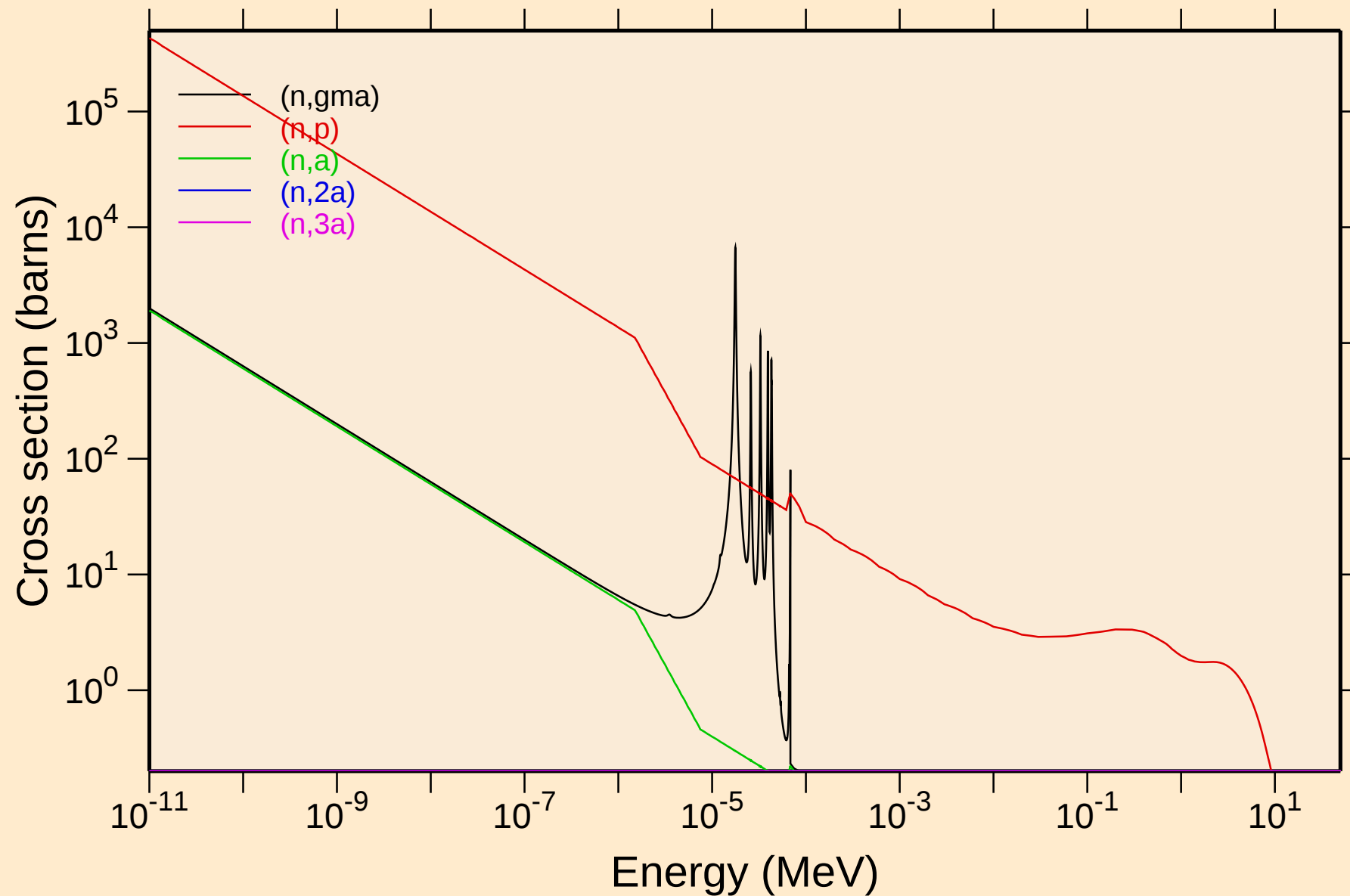
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Damage

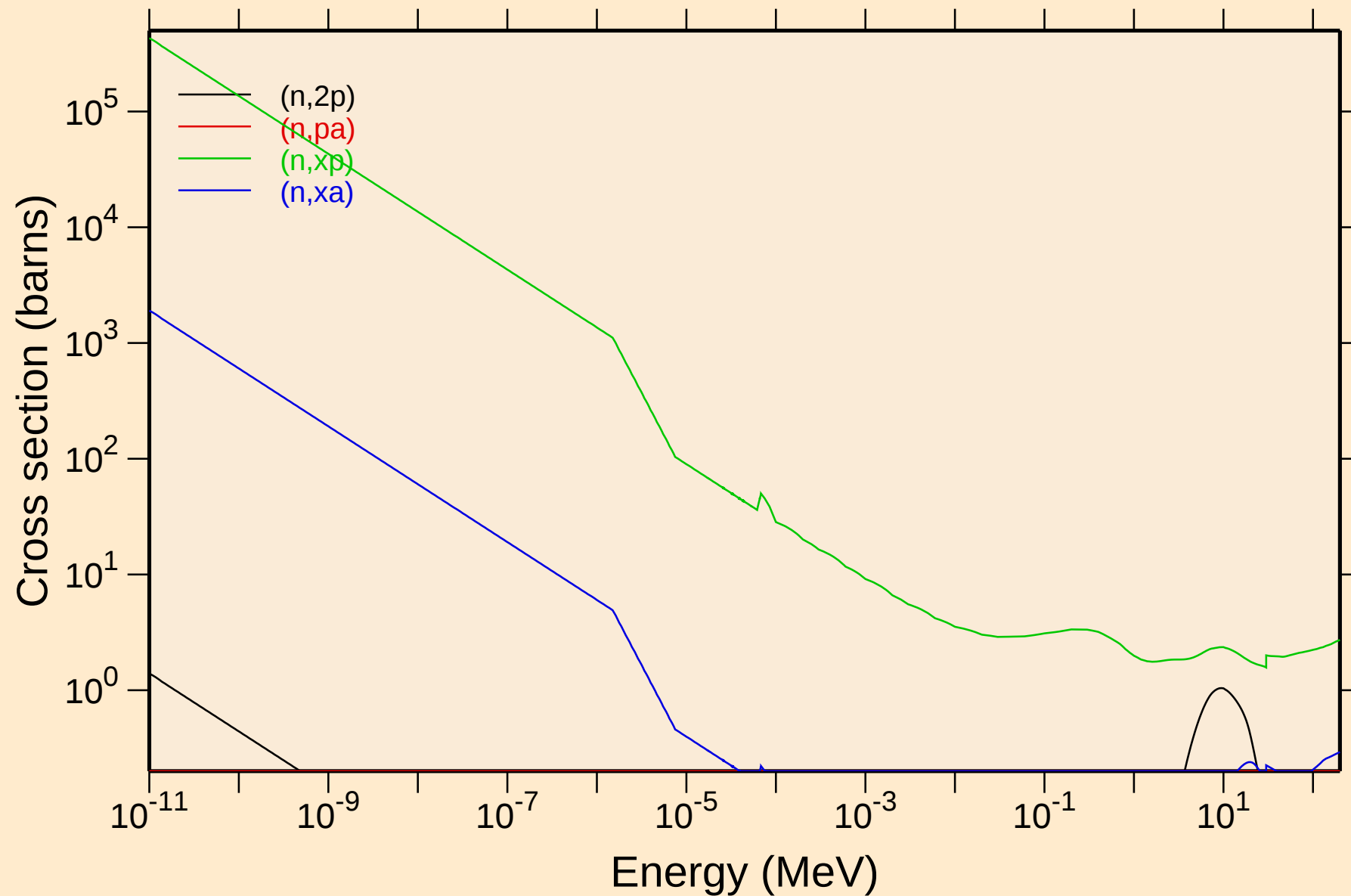


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Non-threshold reactions

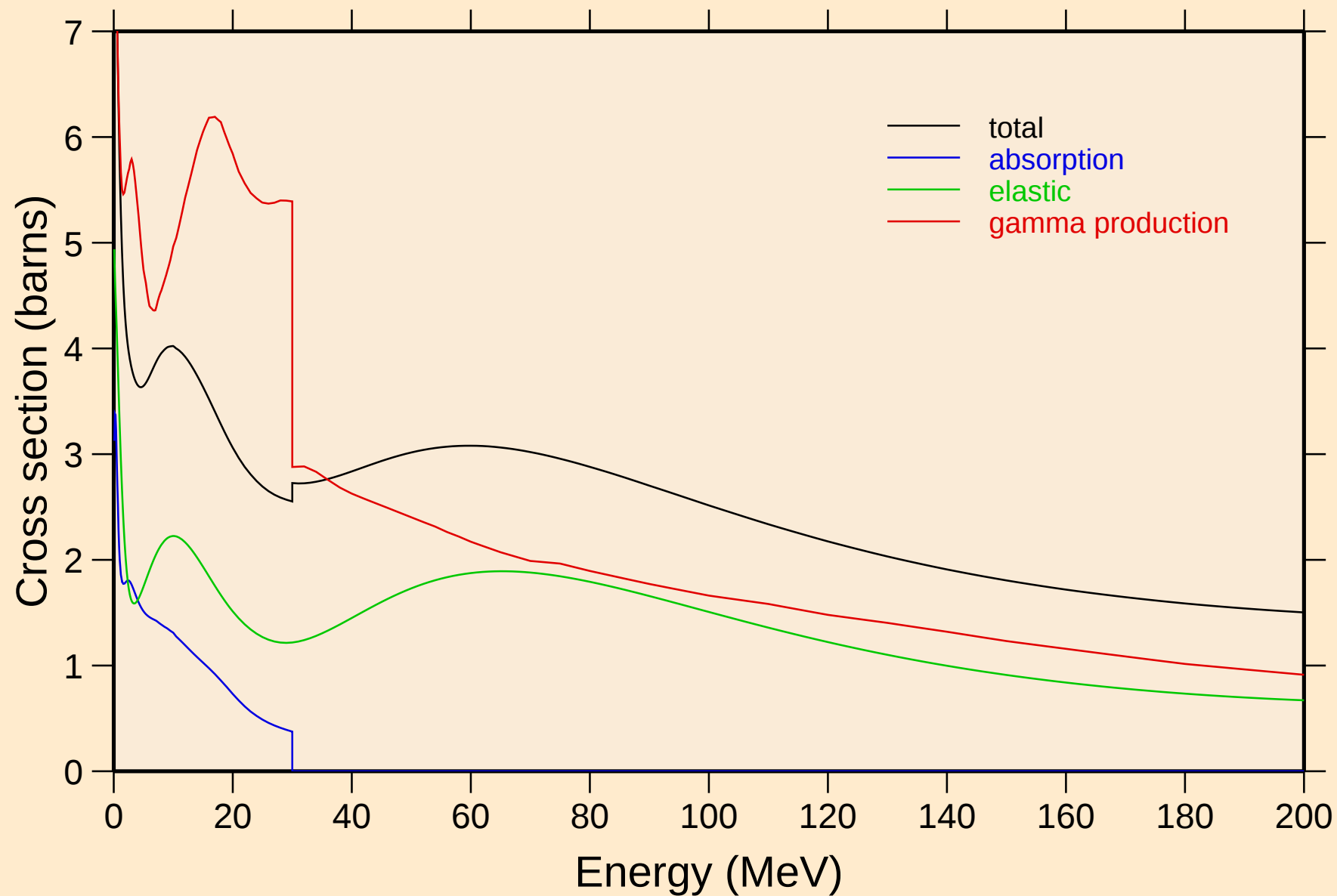


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



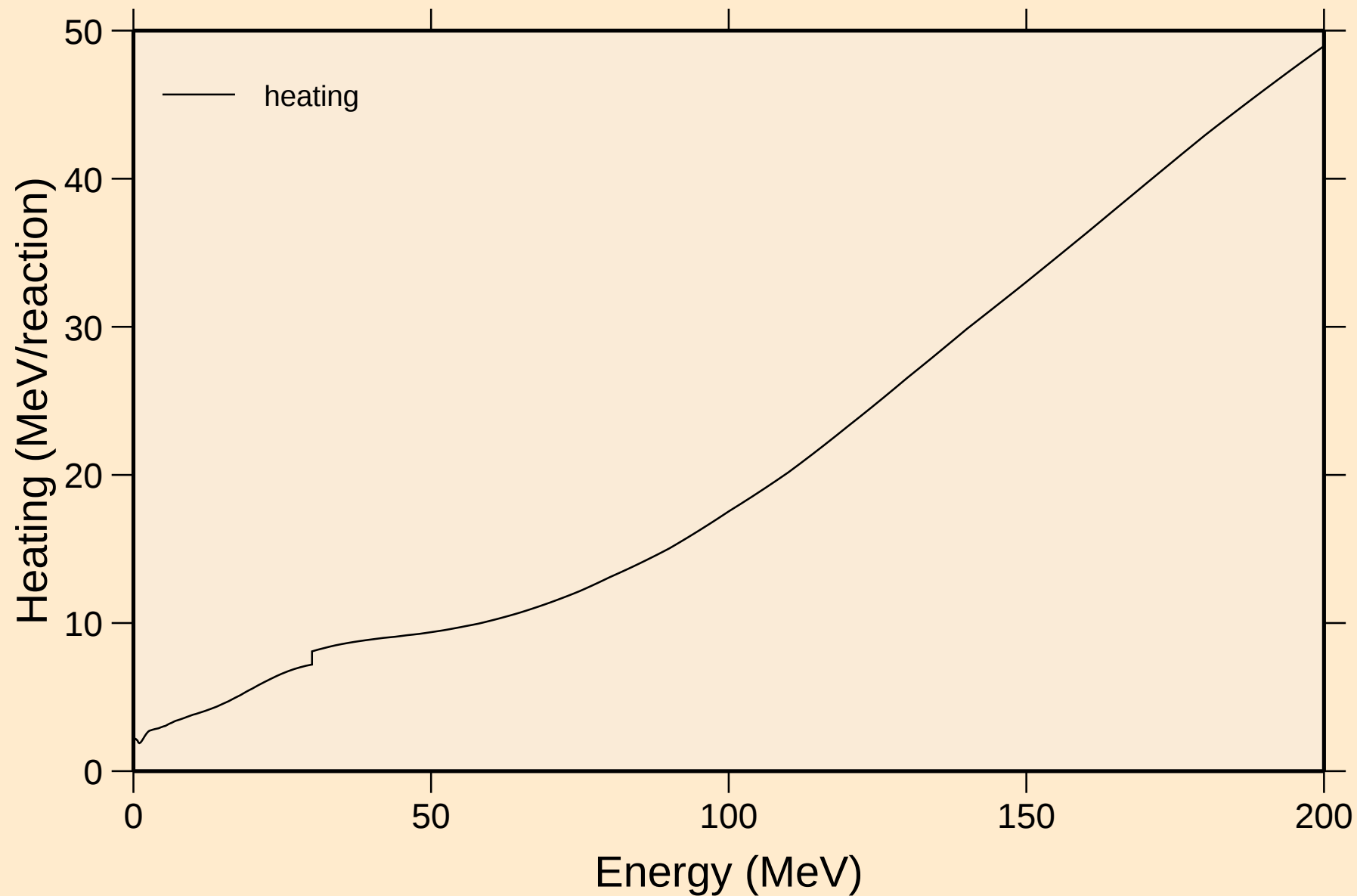
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Principal cross sections



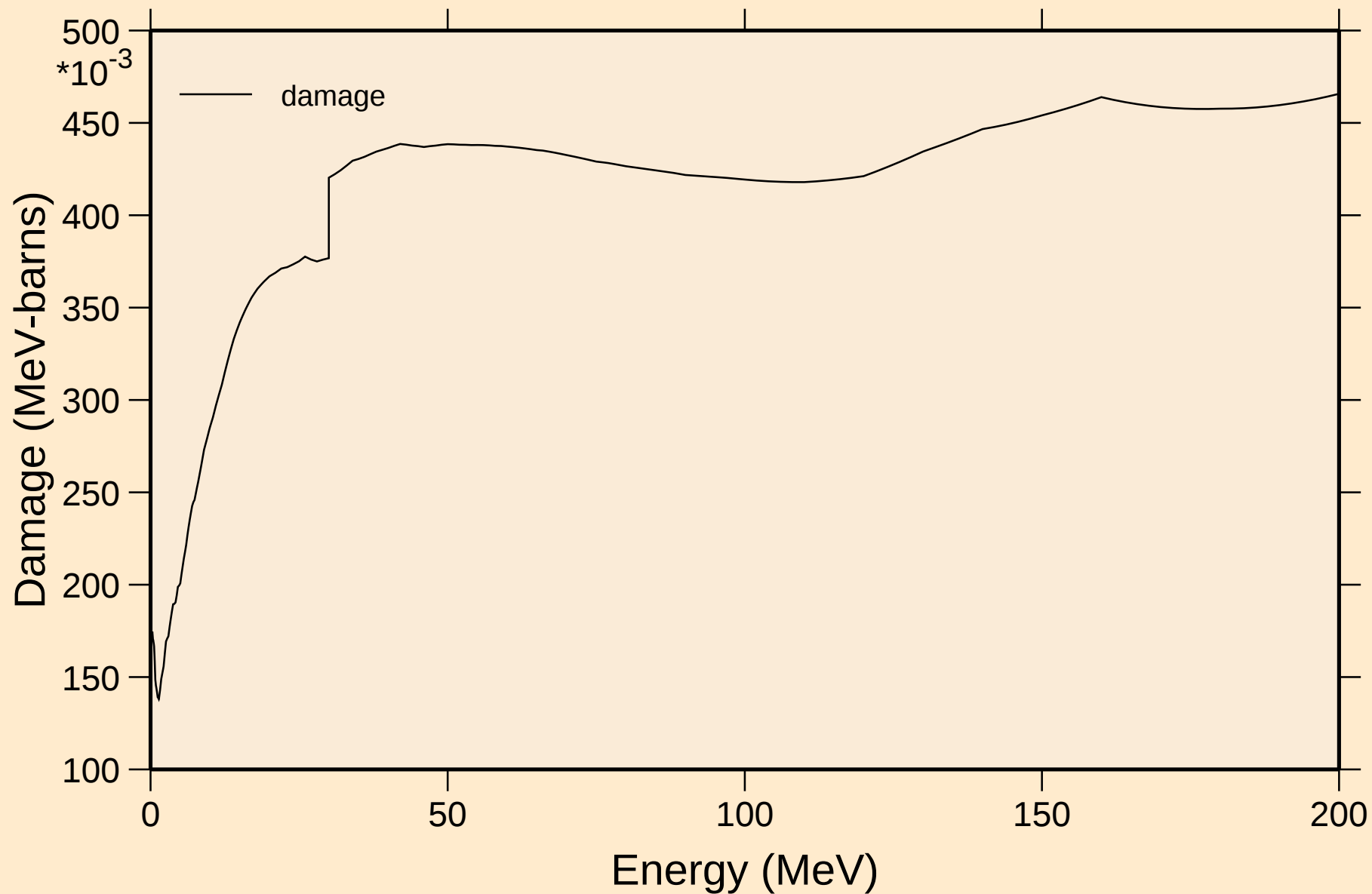
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Heating

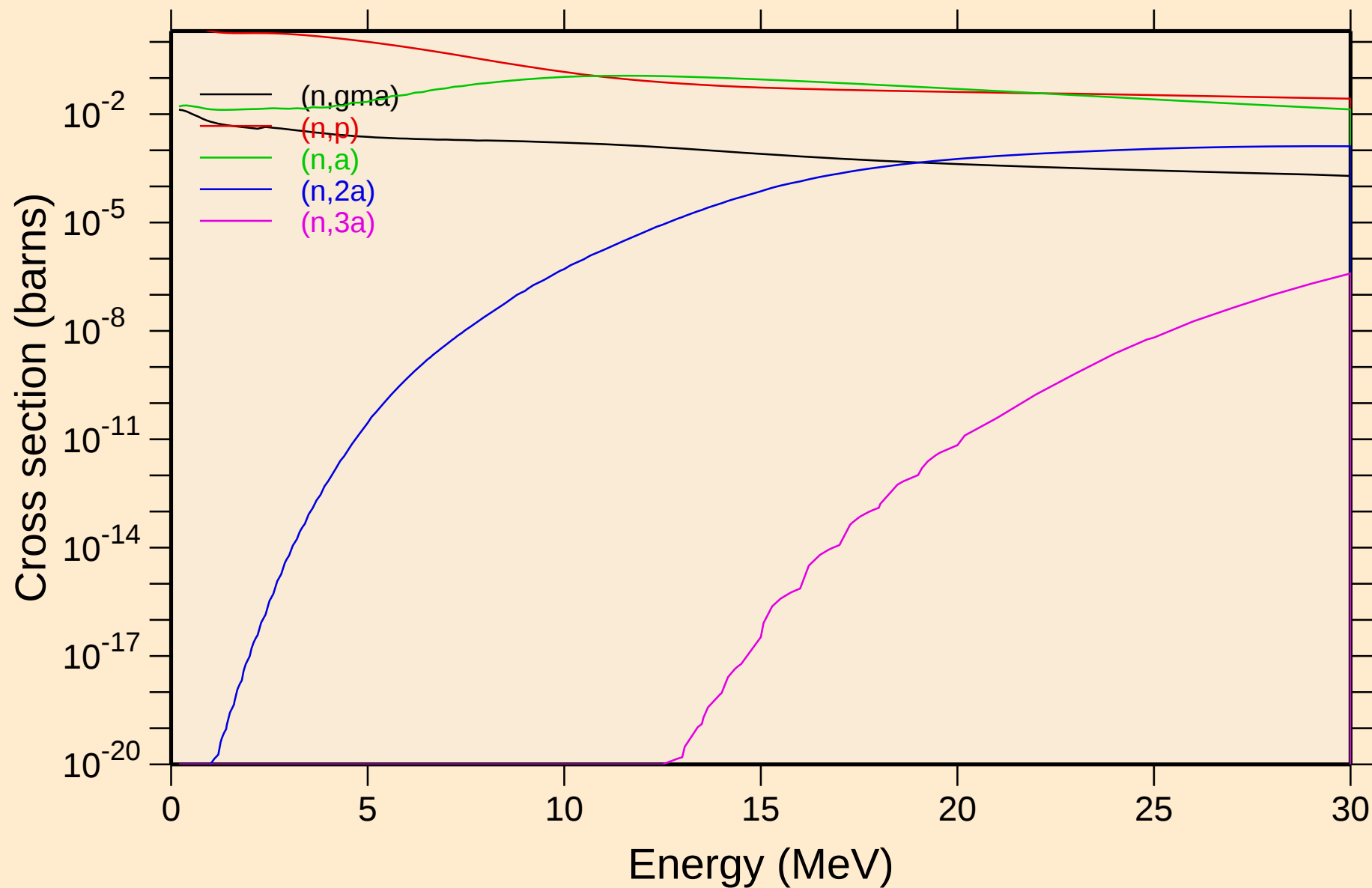


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Damage

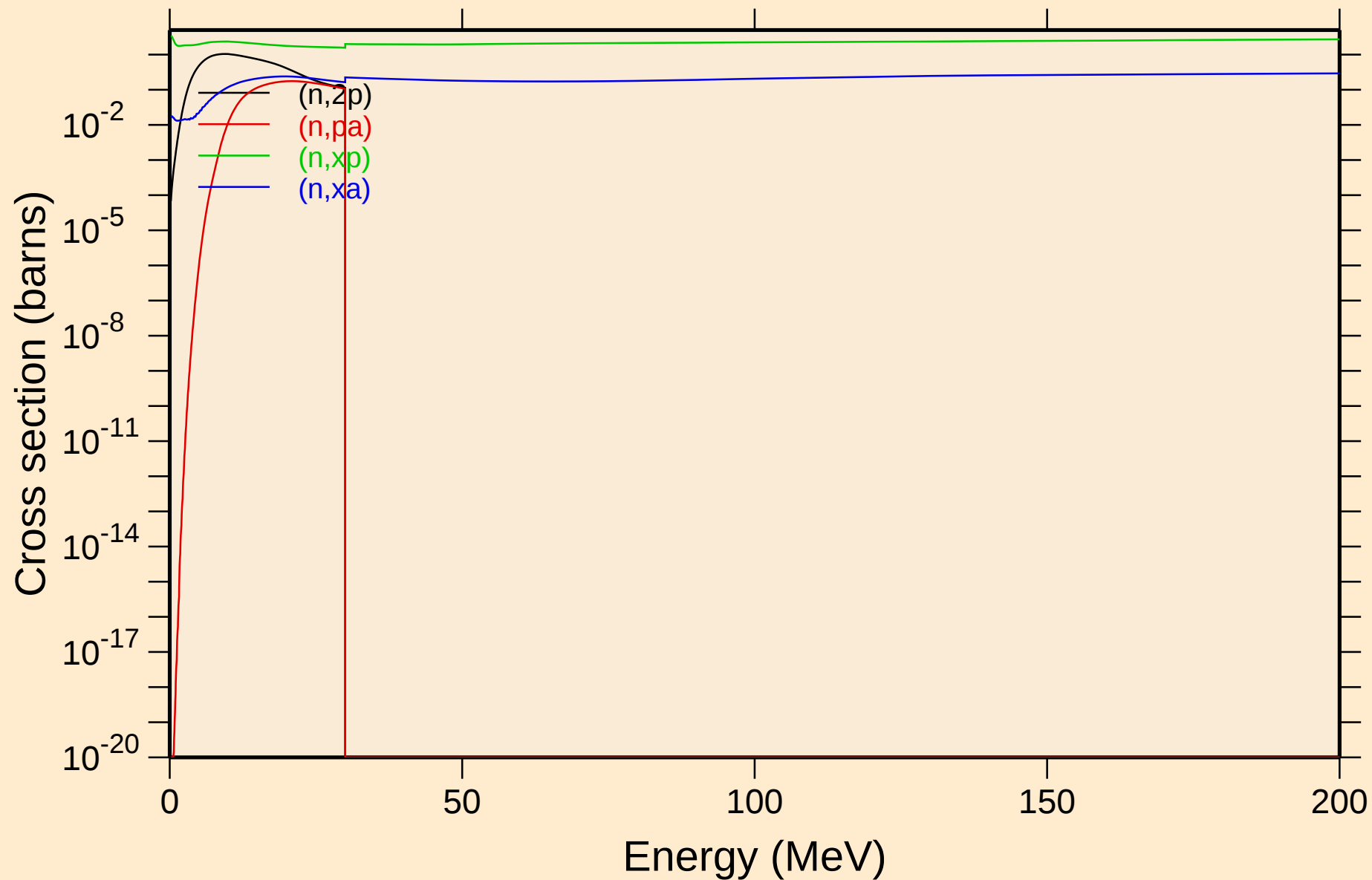


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



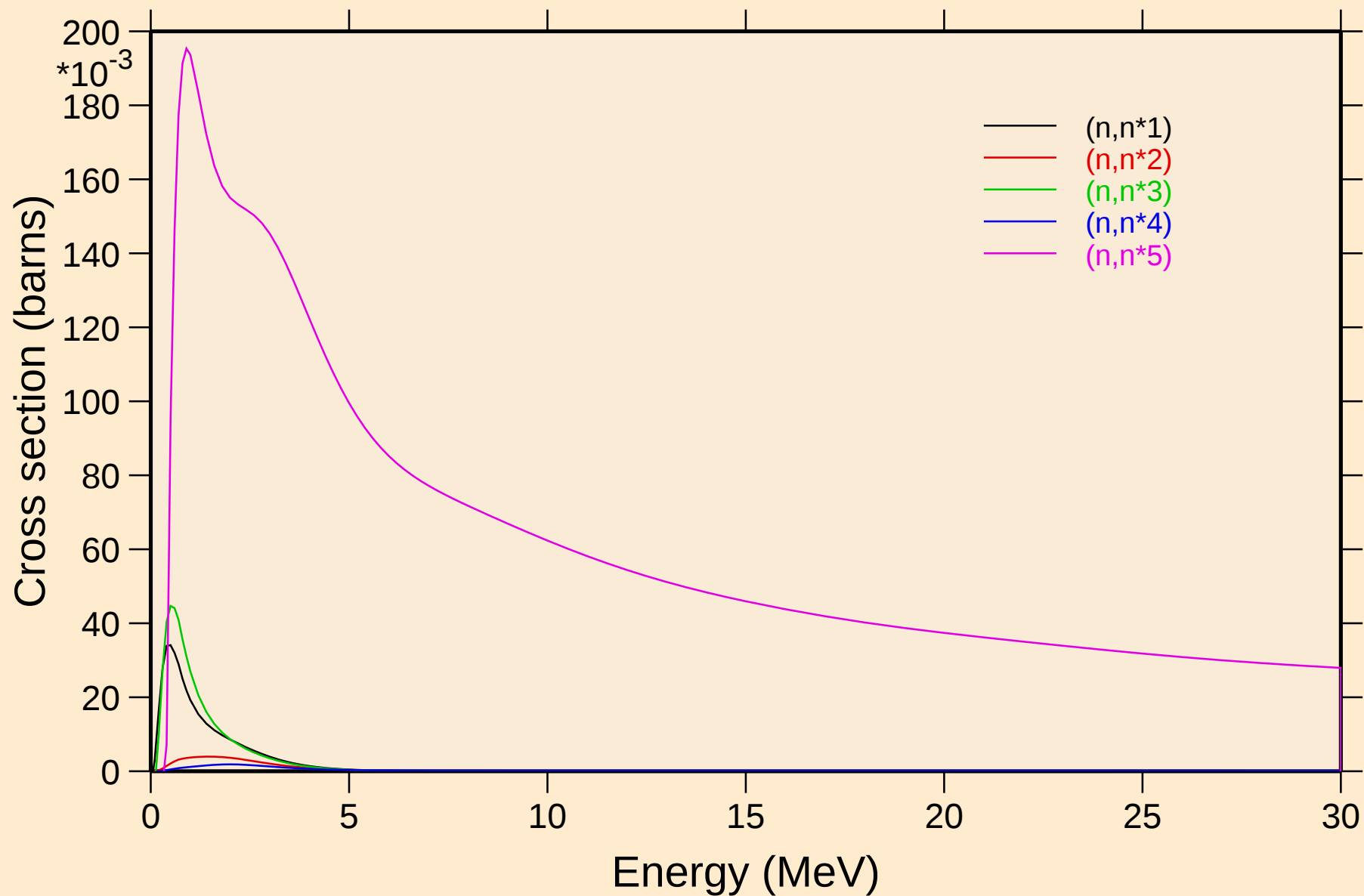
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Non-threshold reactions



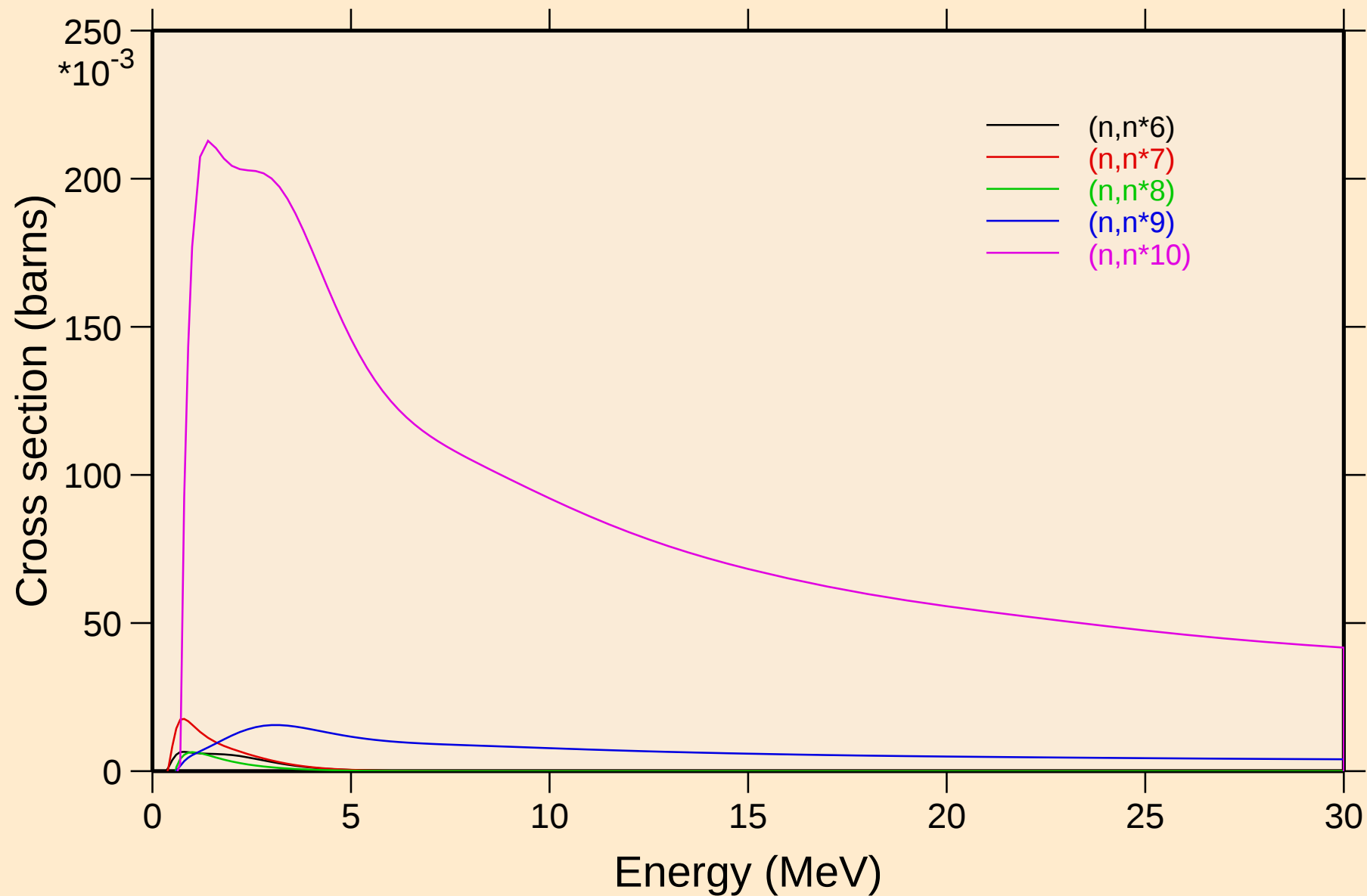
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Inelastic levels



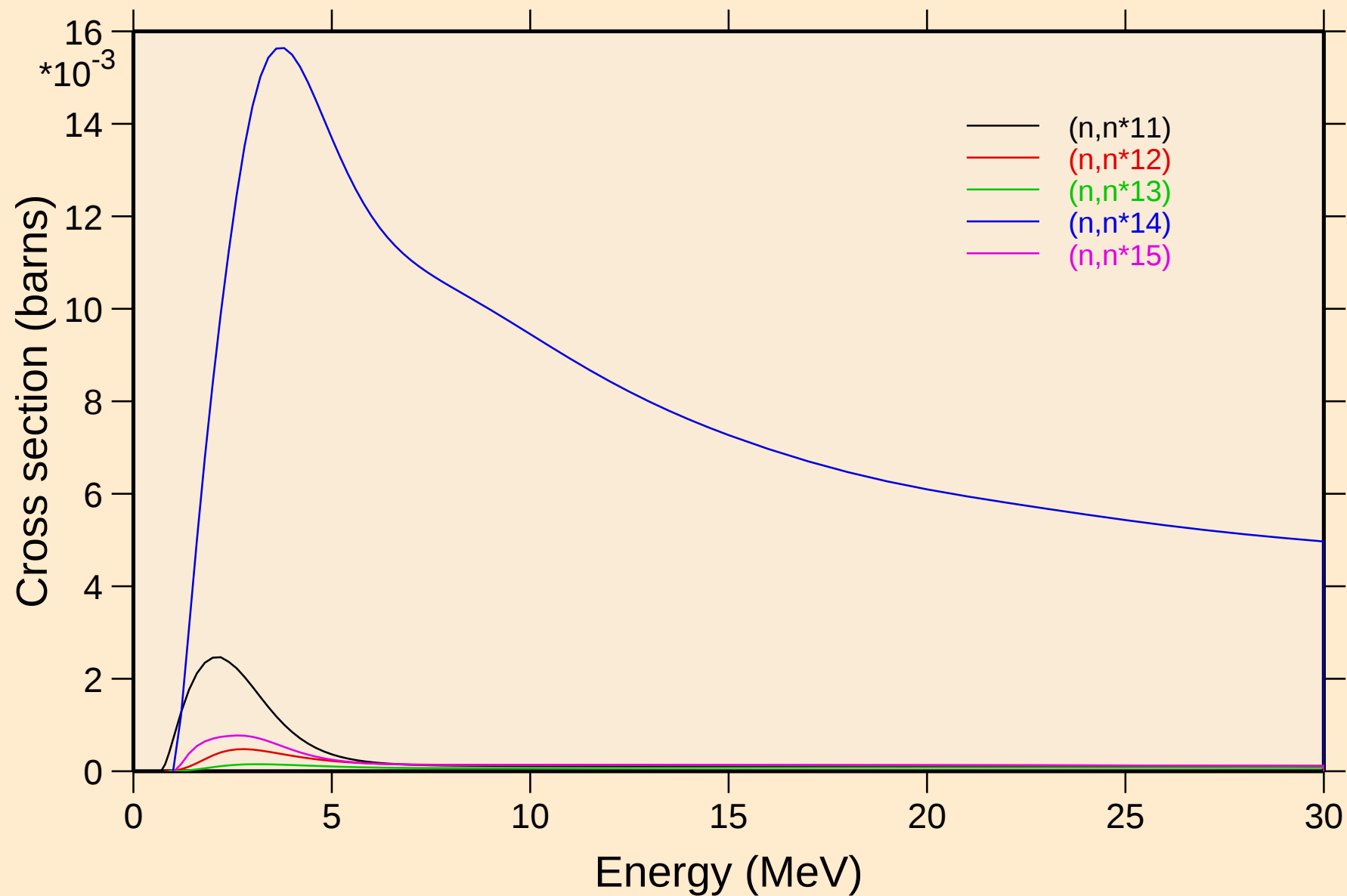
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Inelastic levels



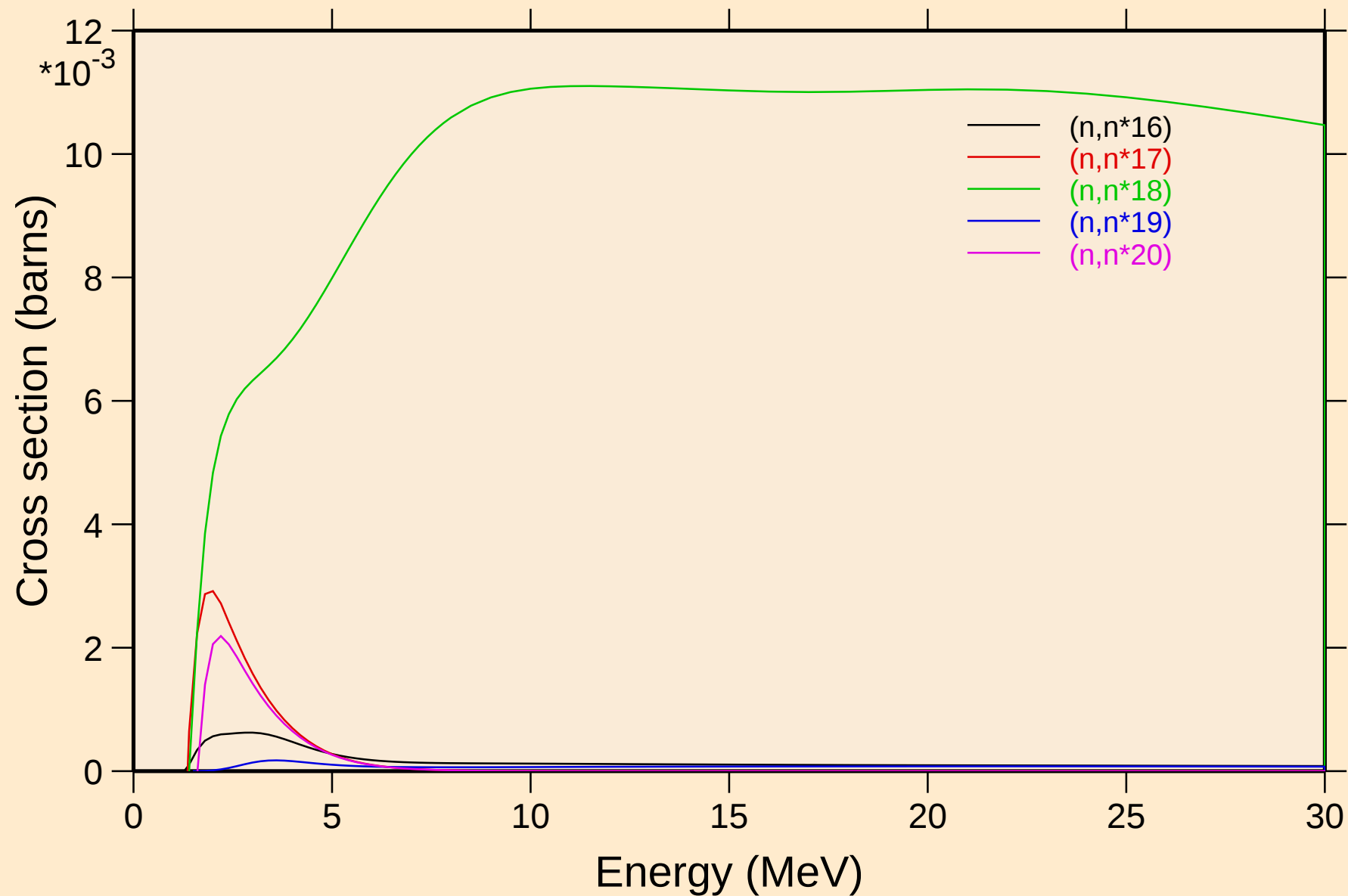
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Inelastic levels



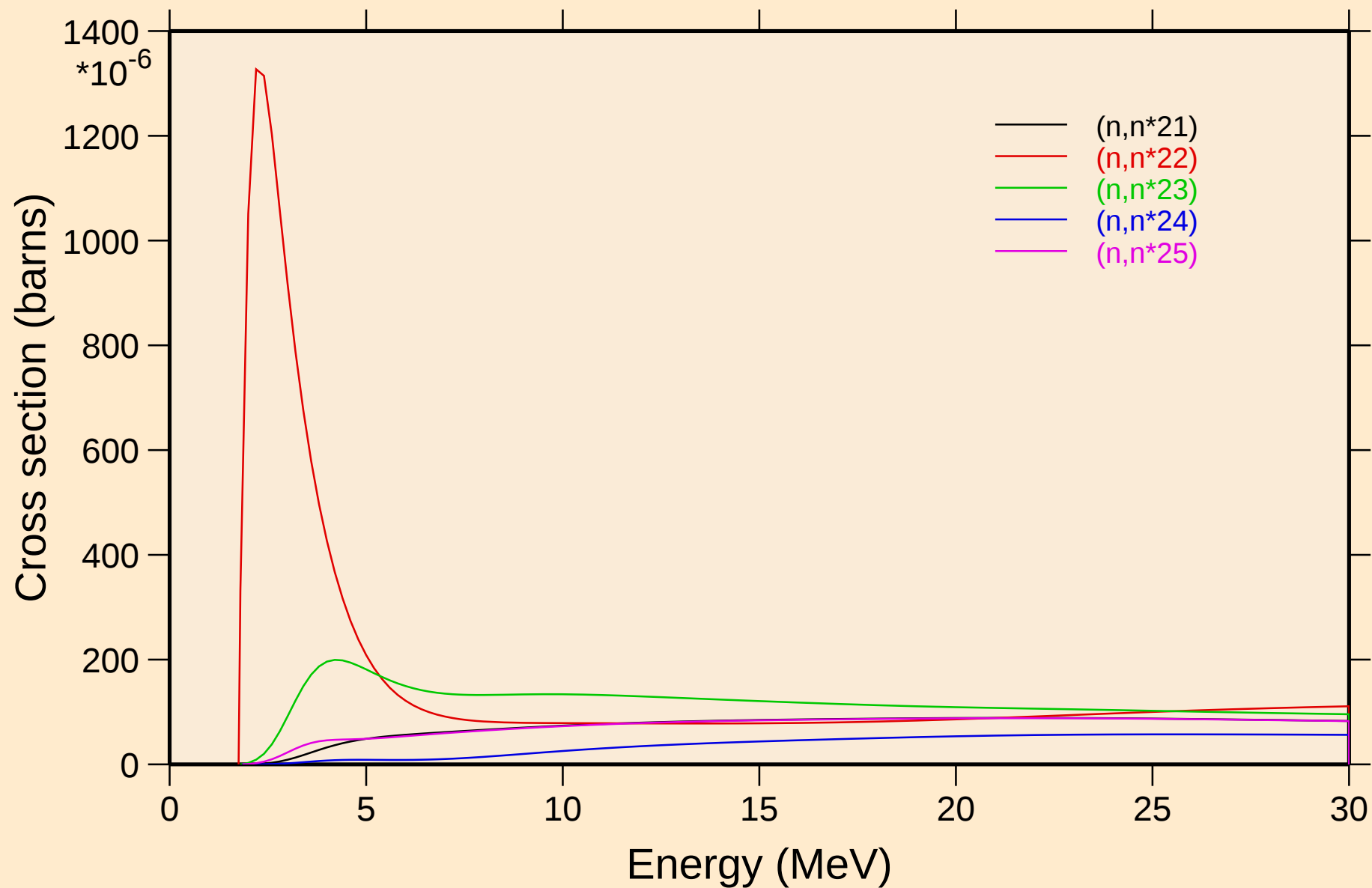
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Inelastic levels



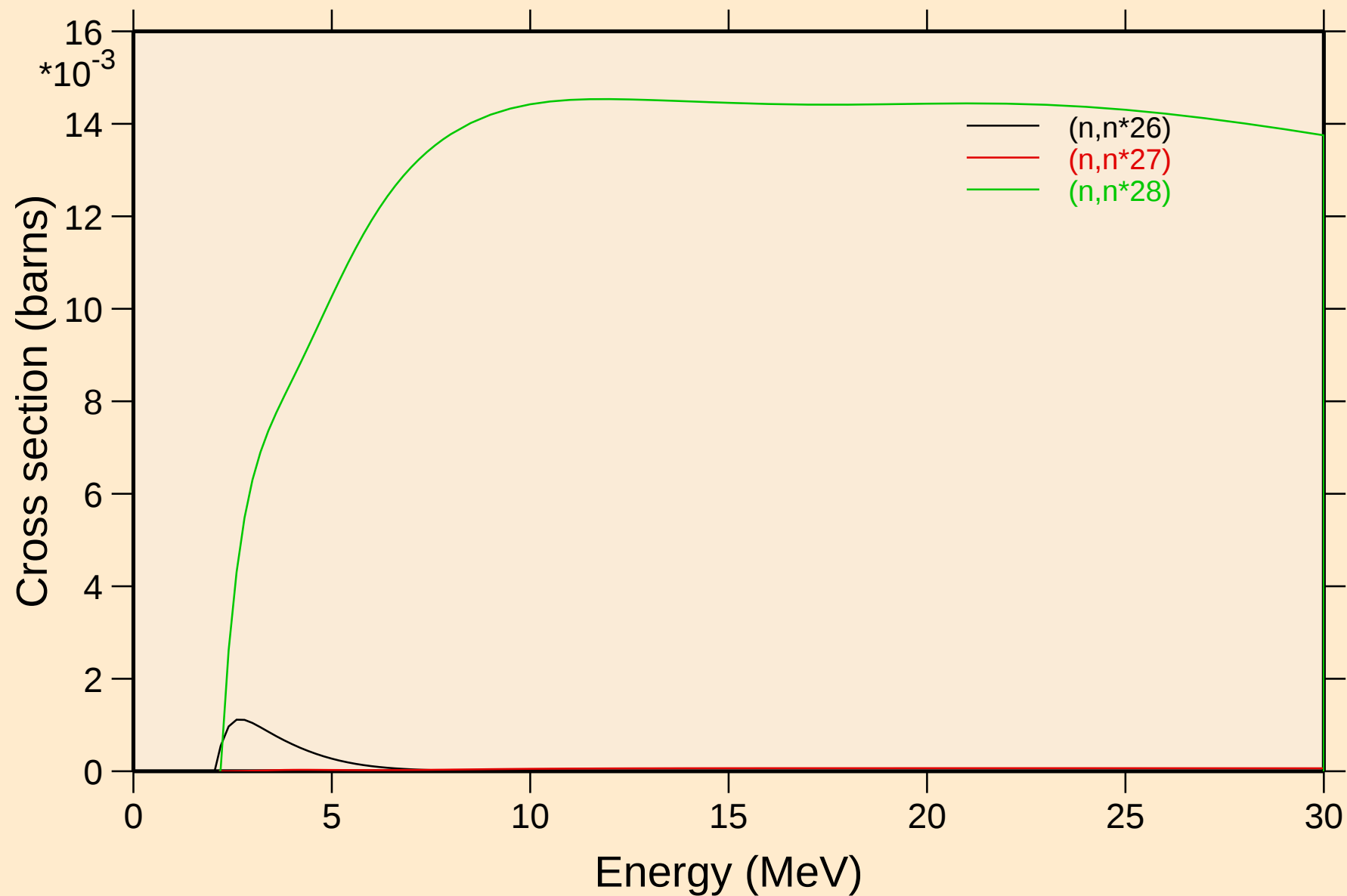
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Inelastic levels



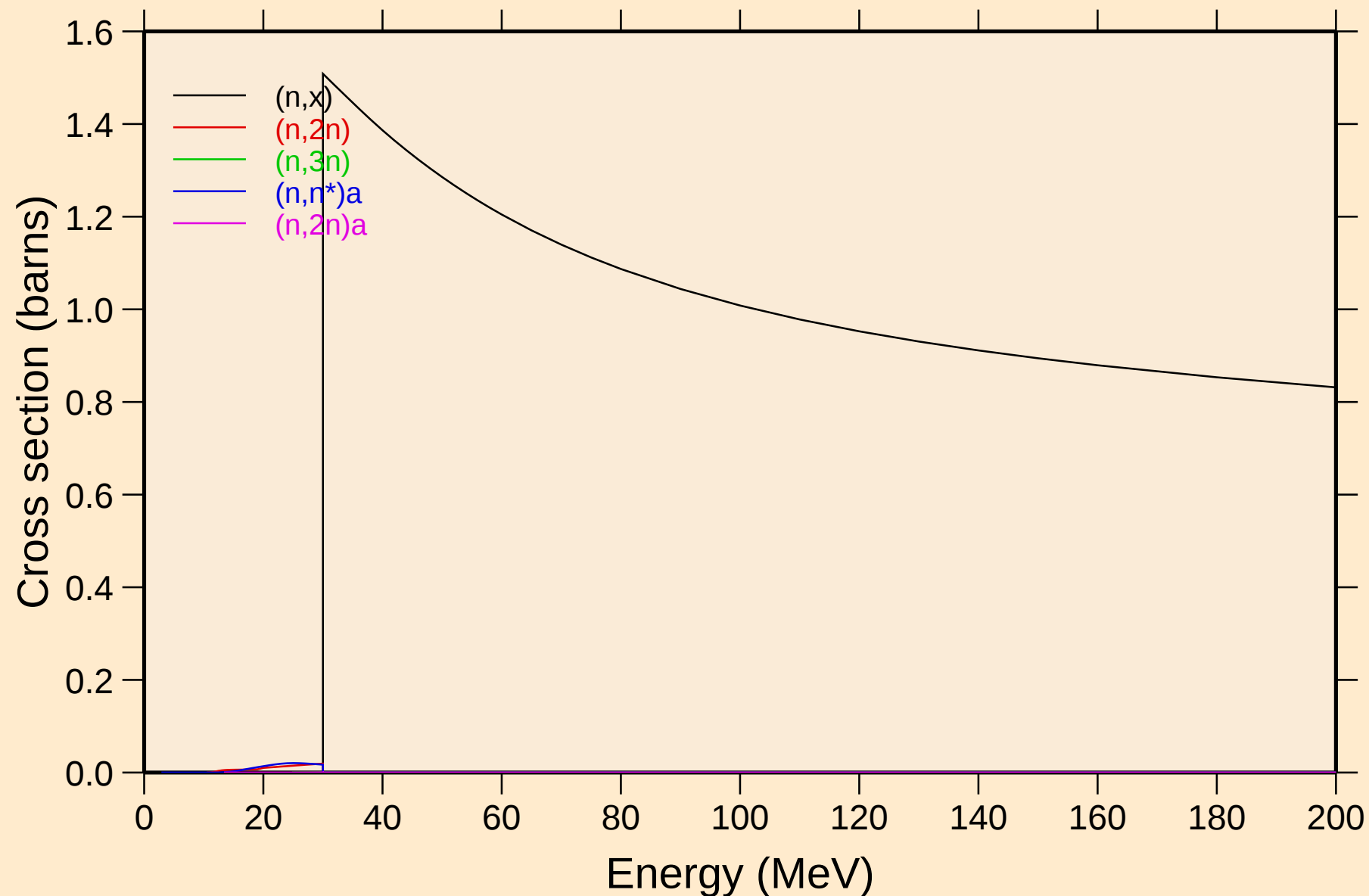
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Inelastic levels



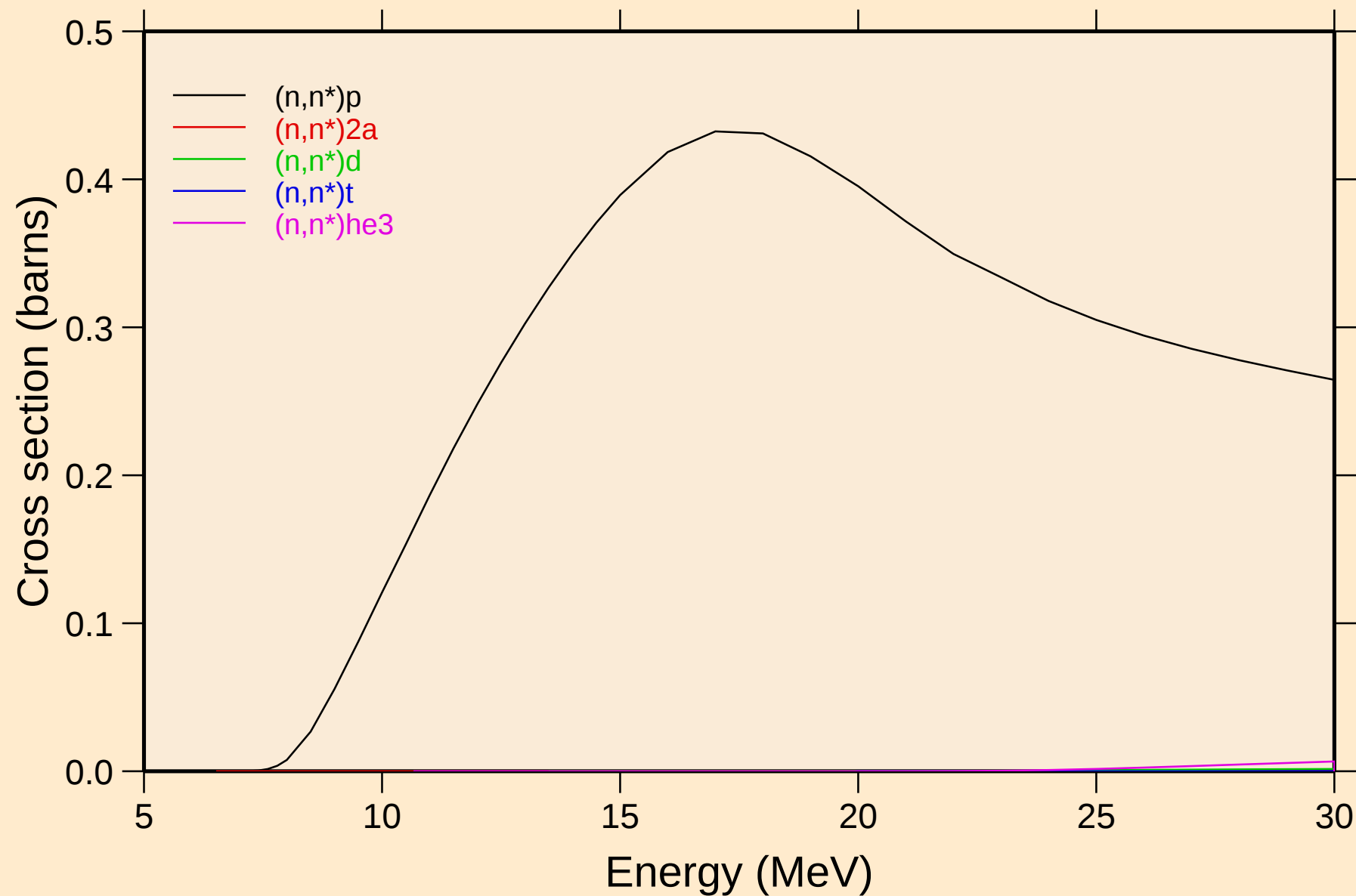
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Threshold reactions

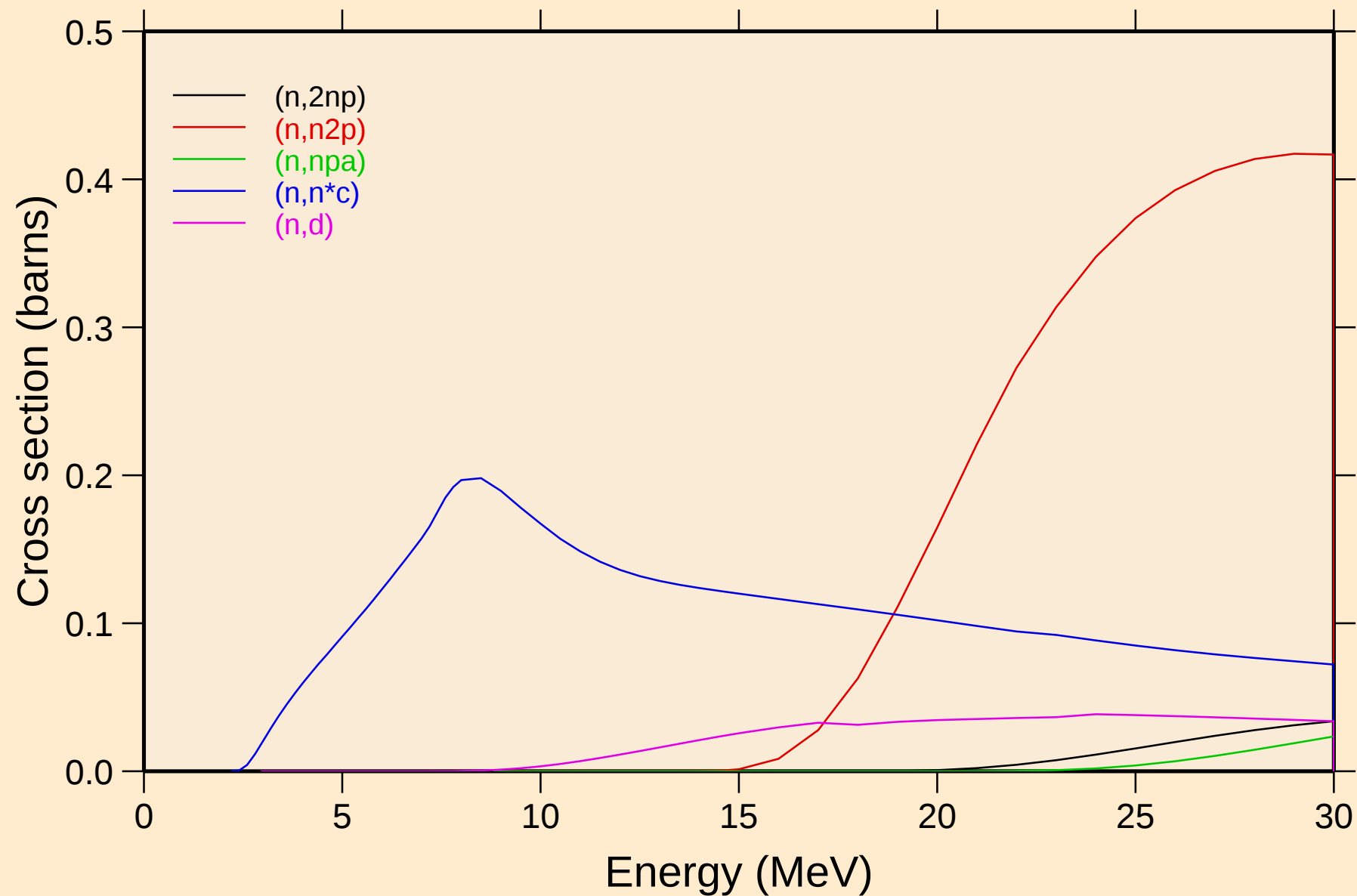


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Threshold reactions

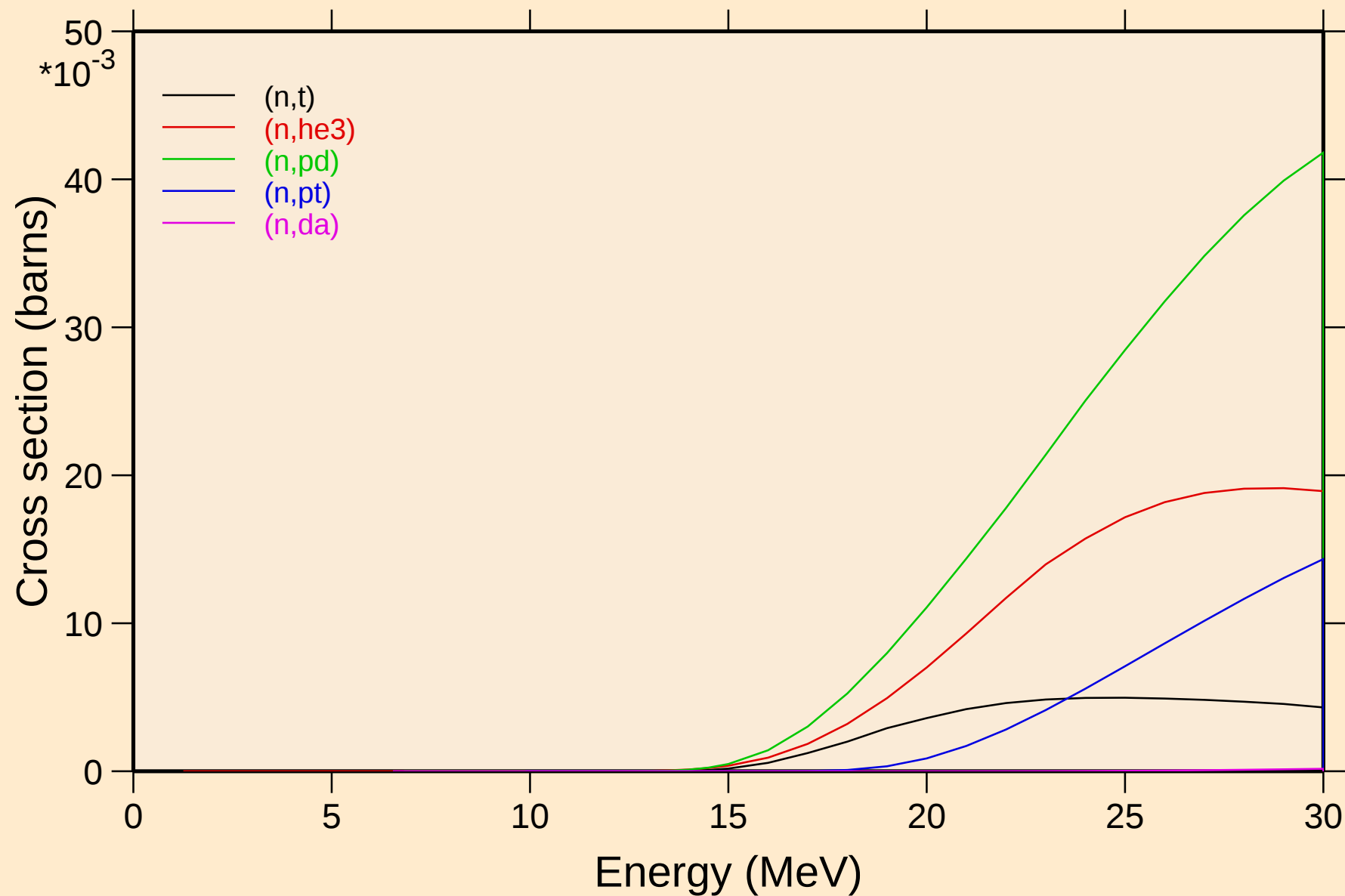


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions



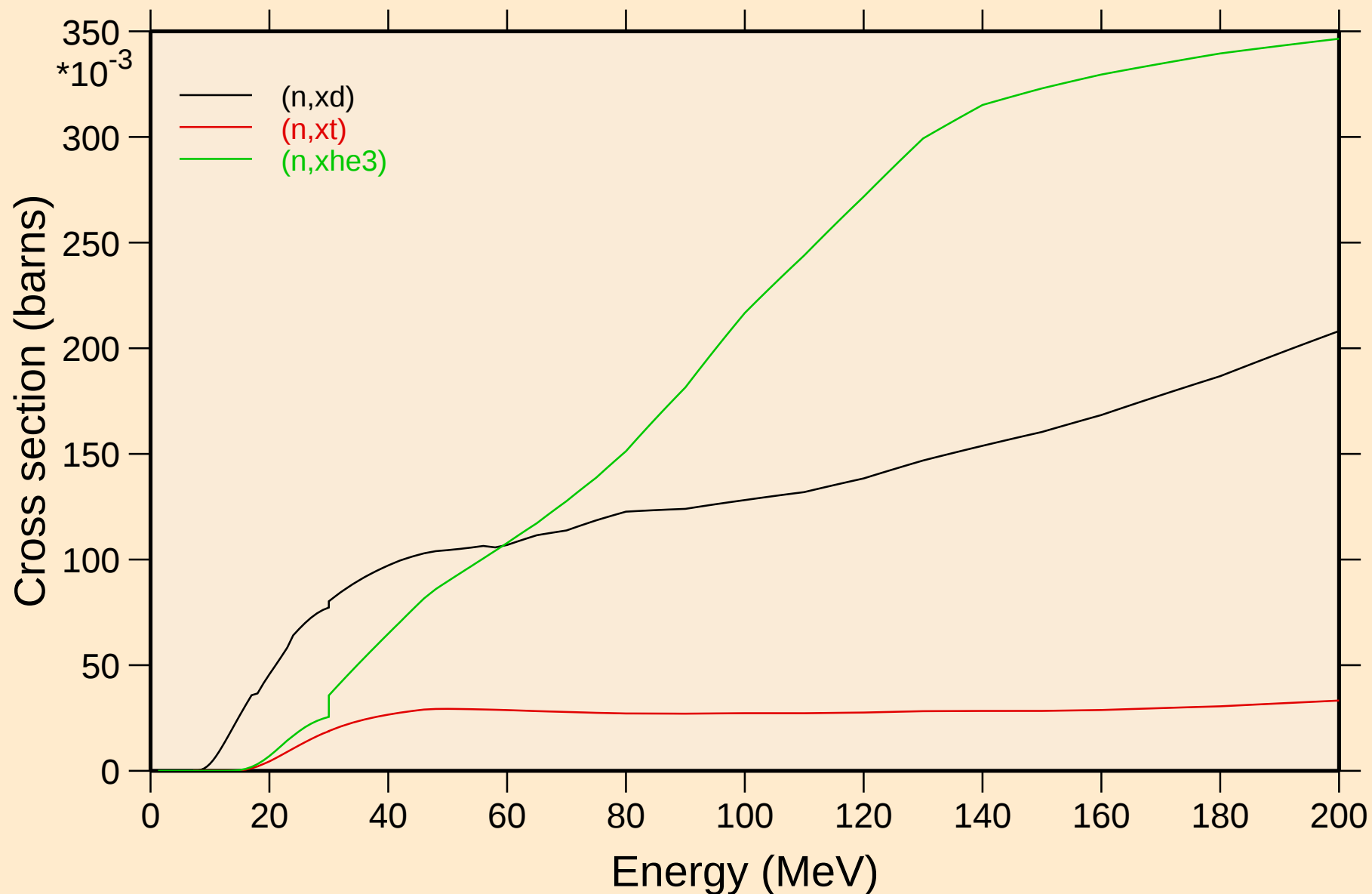
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Threshold reactions

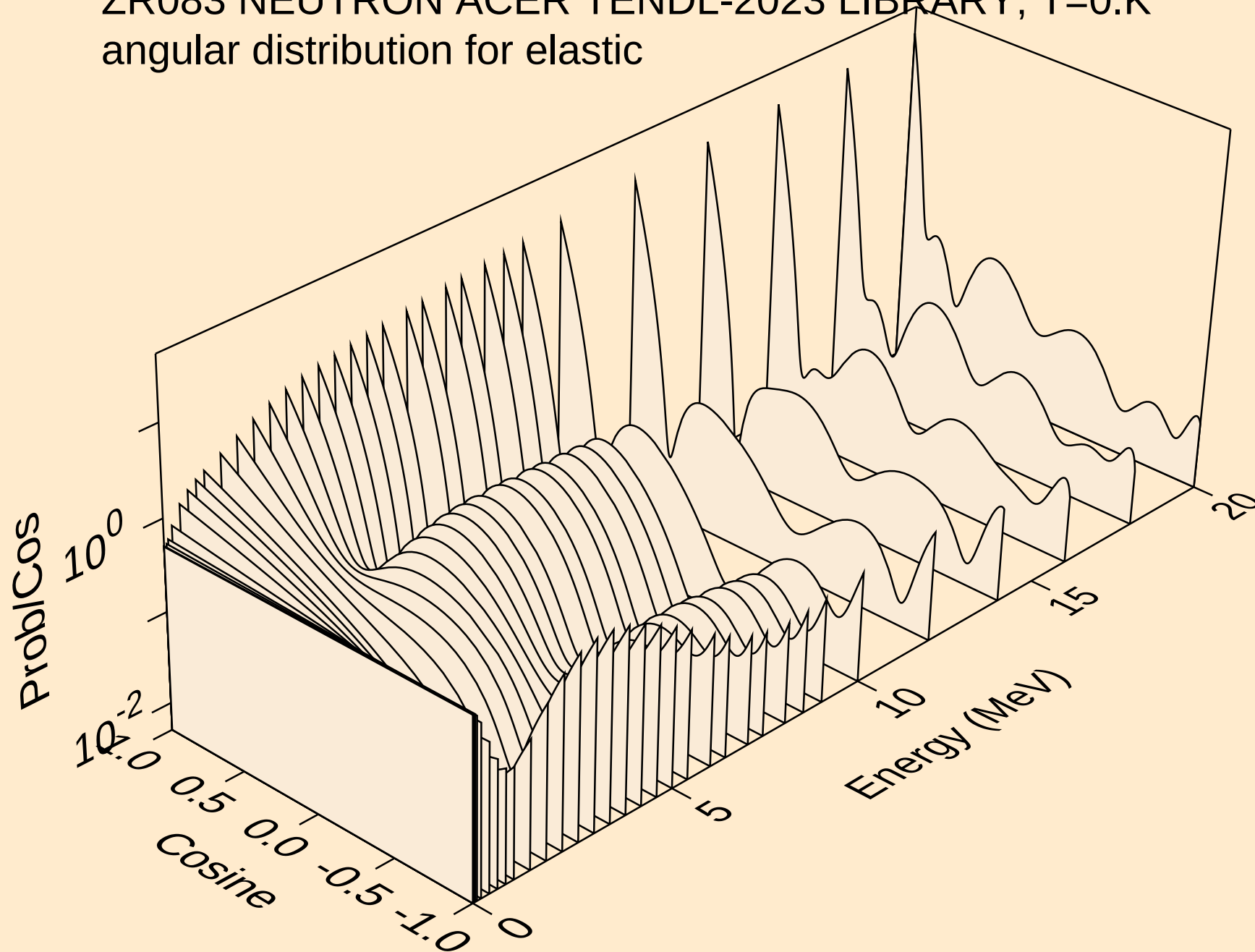


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

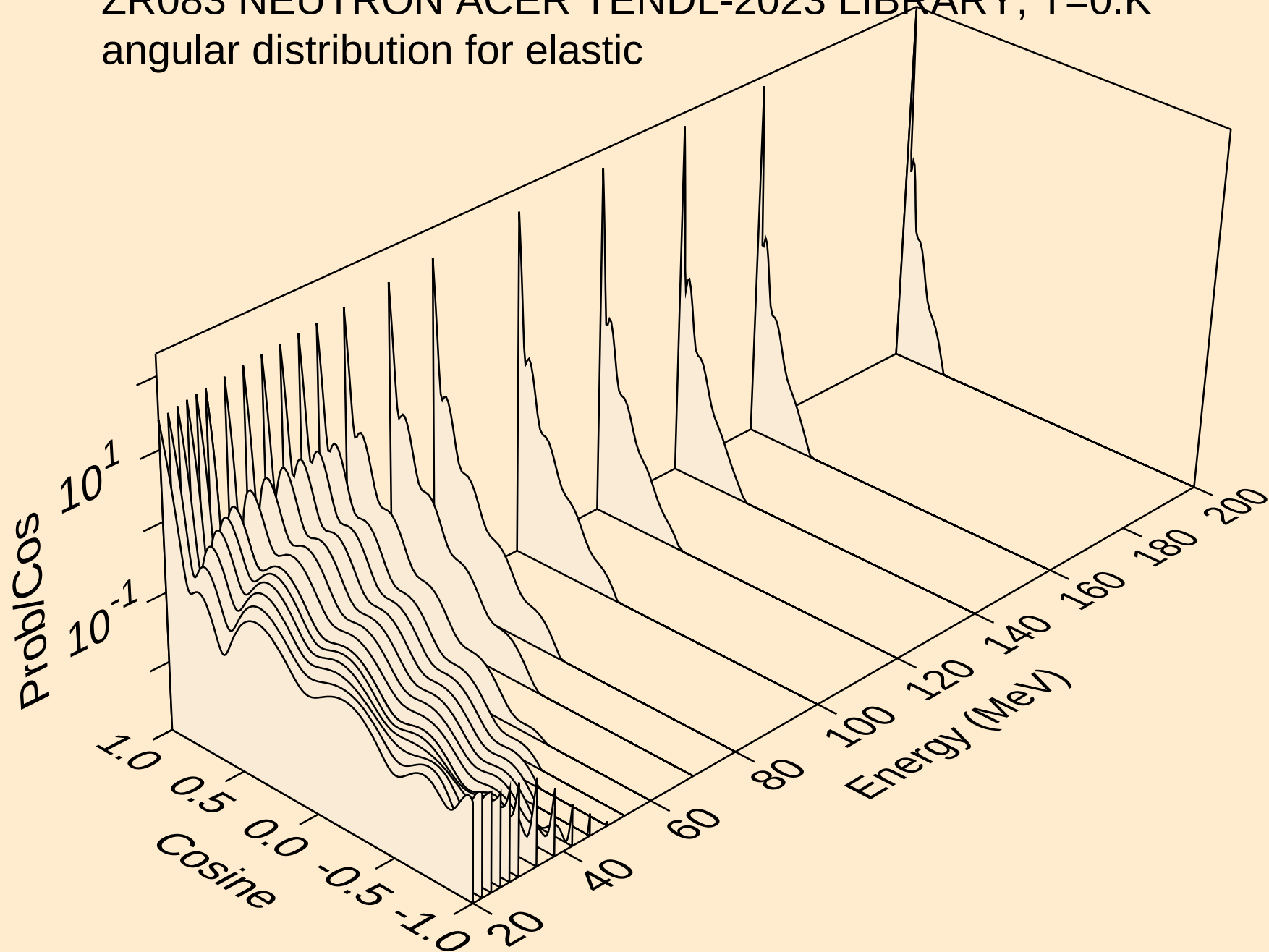
Threshold reactions



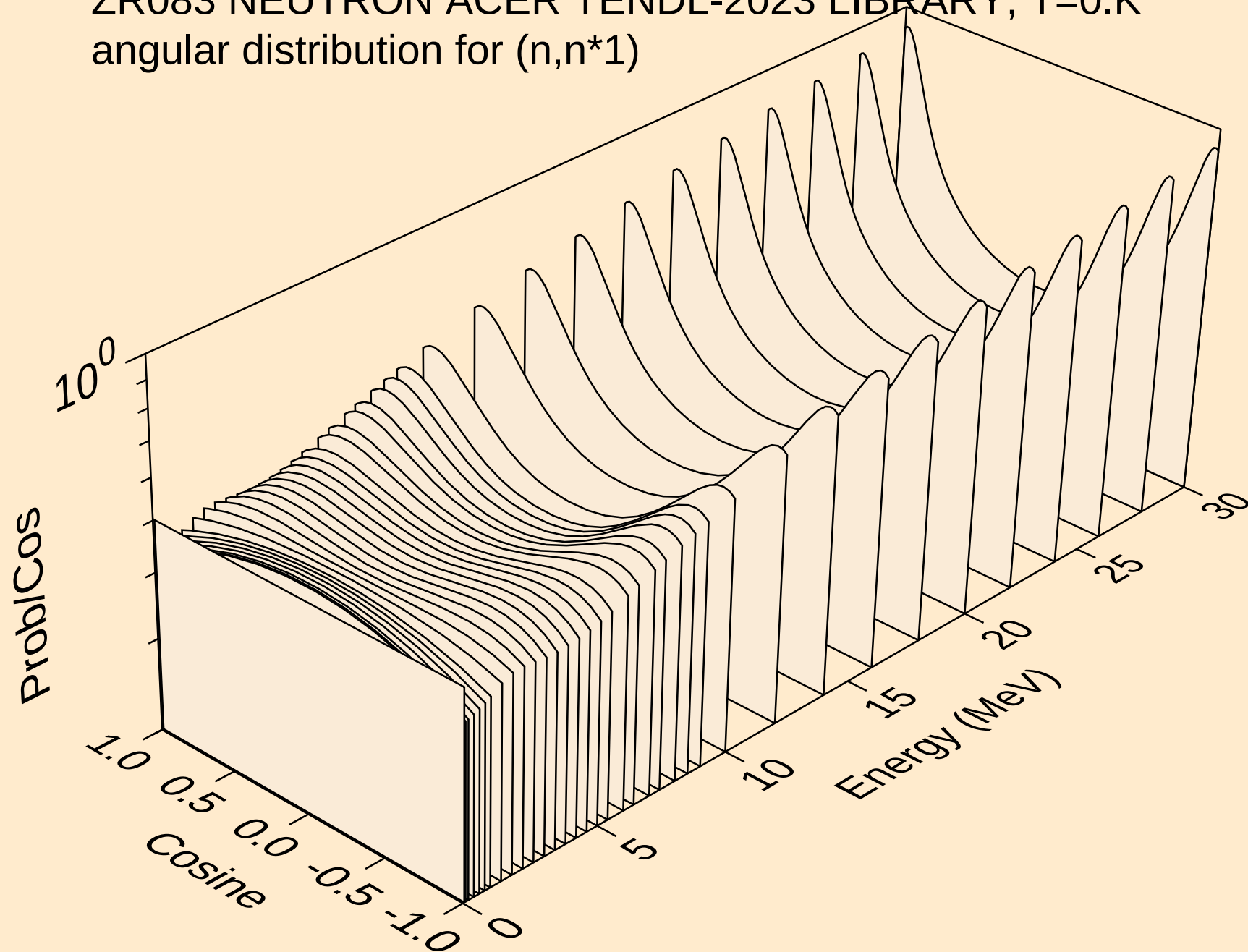
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic



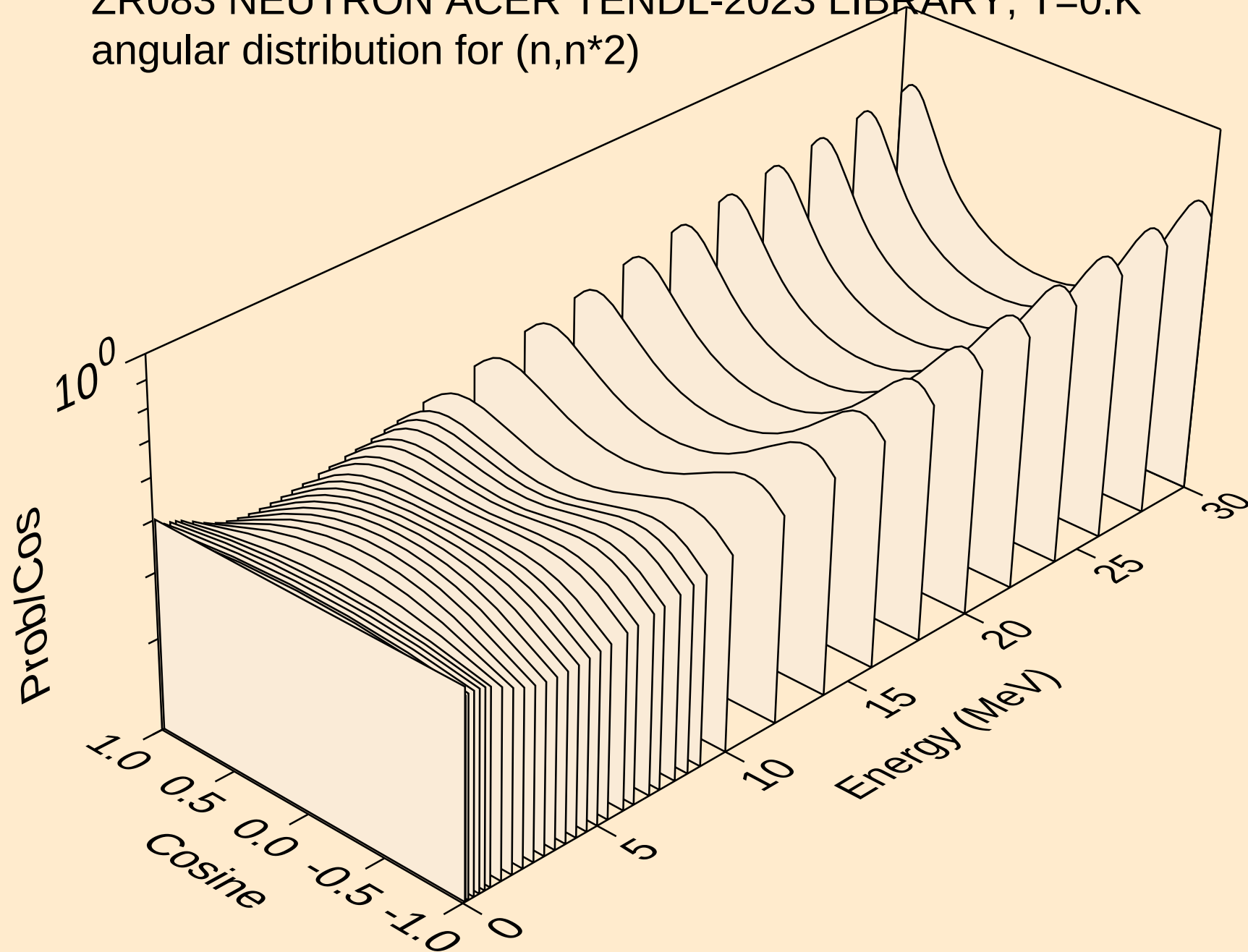
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angular distribution for elastic



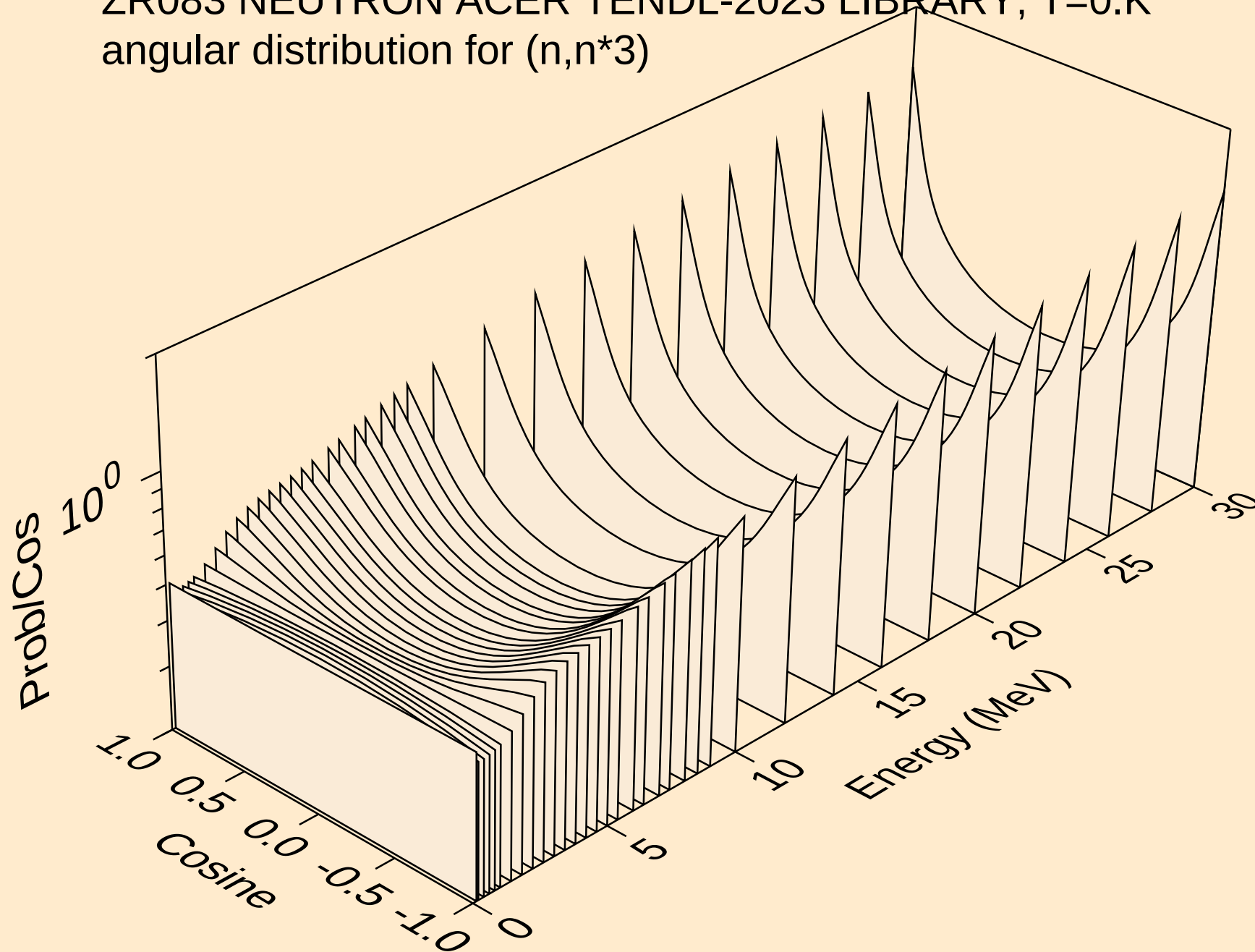
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*1)



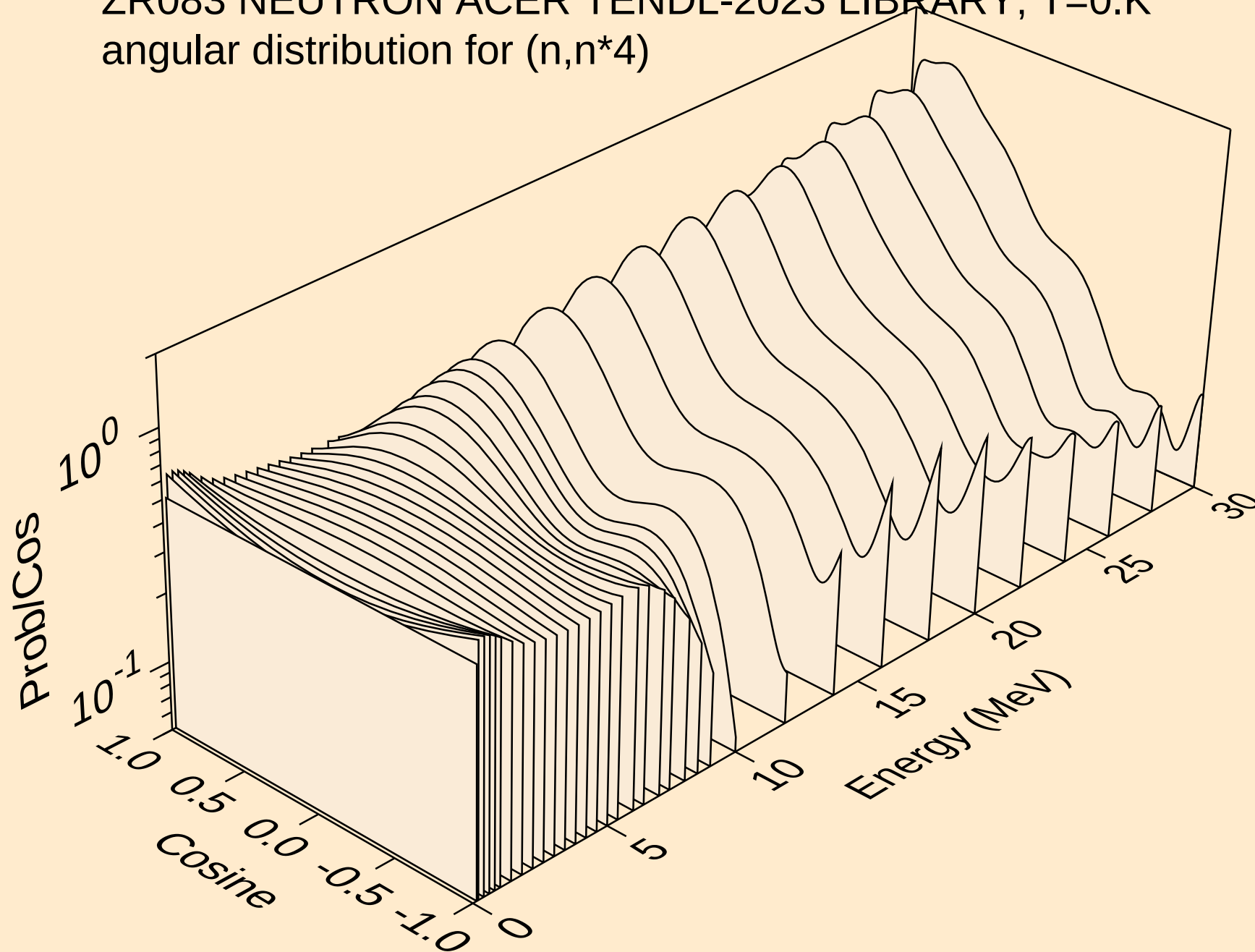
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angular distribution for (n,n*2)



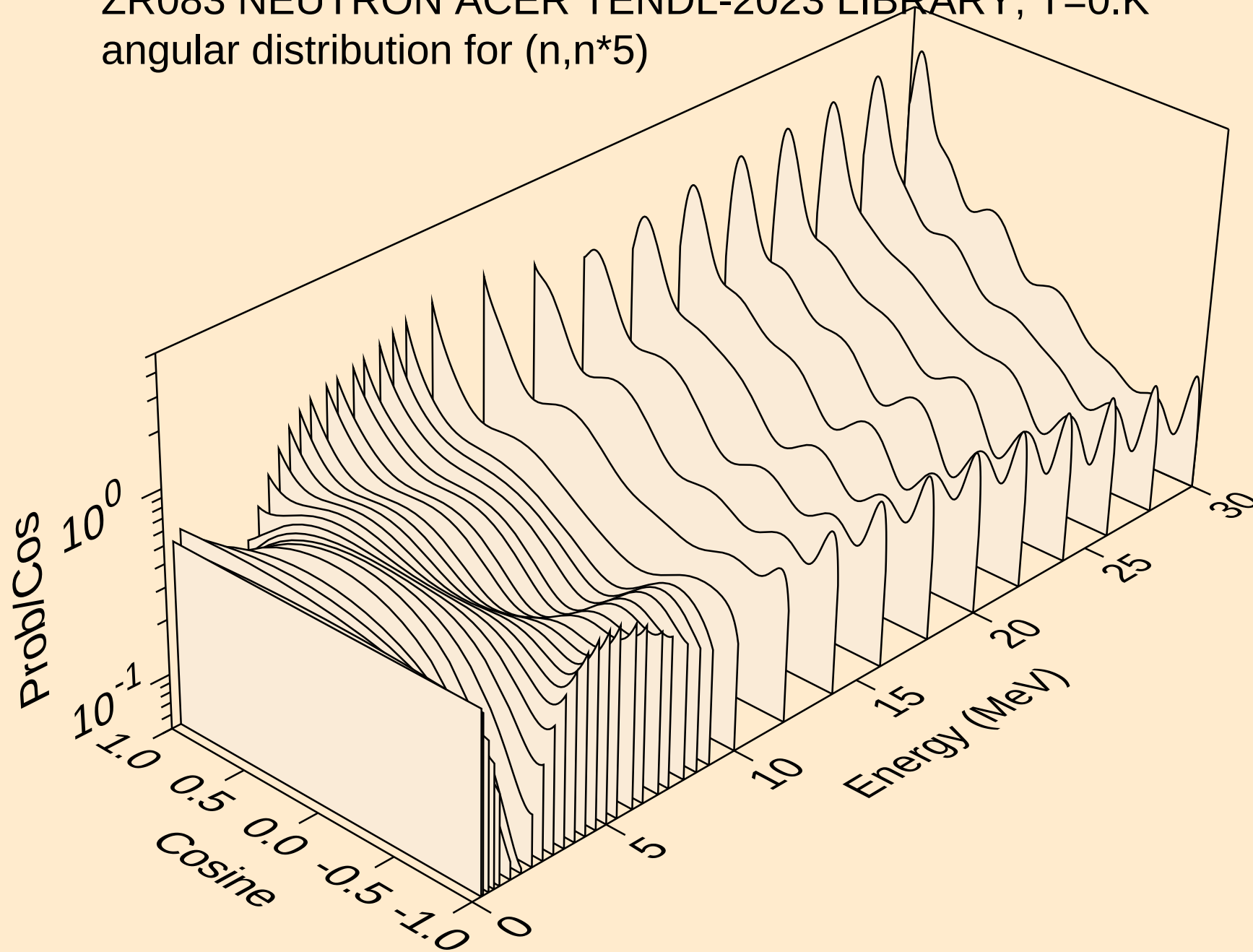
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angular distribution for (n,n*3)



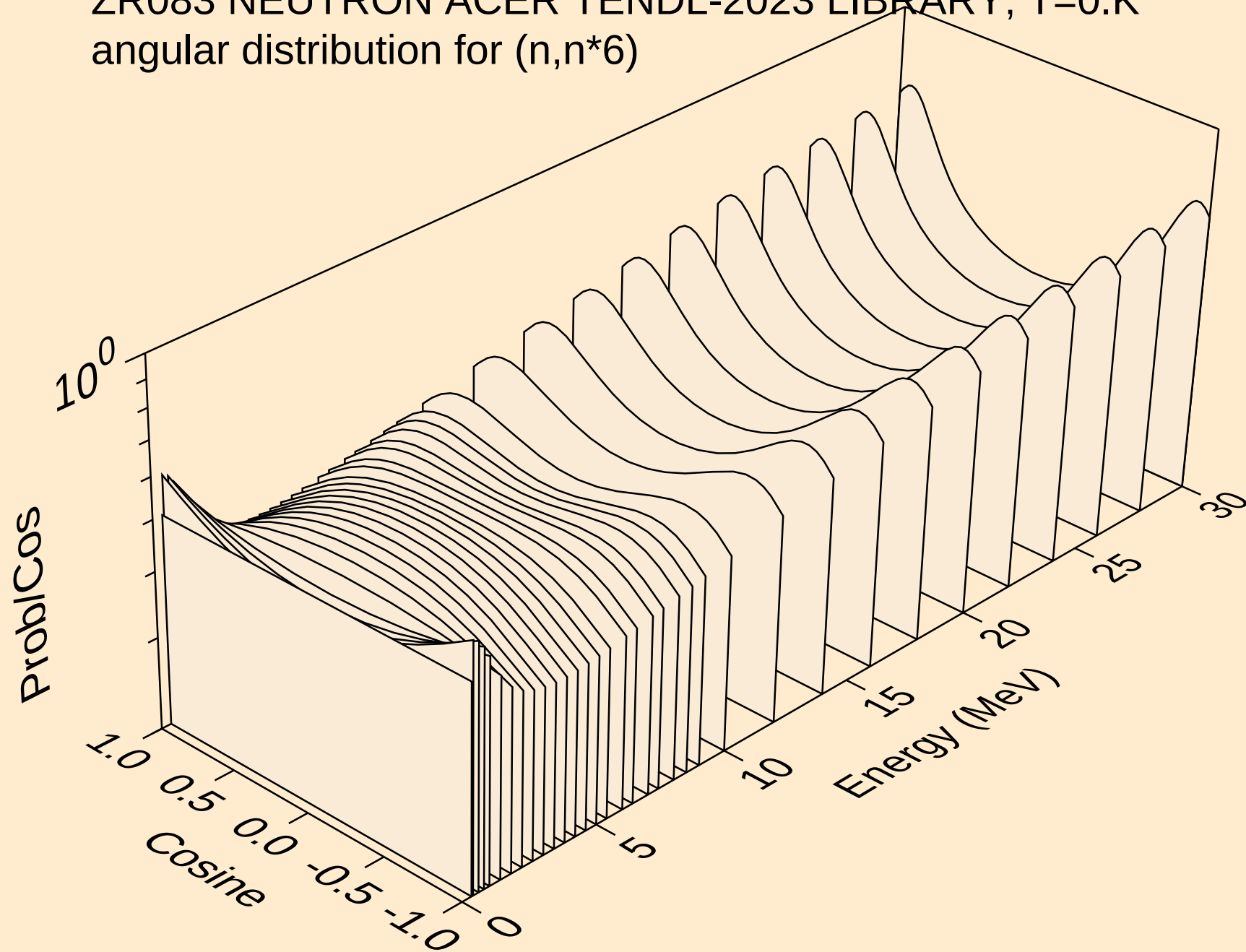
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angular distribution for (n,n*4)



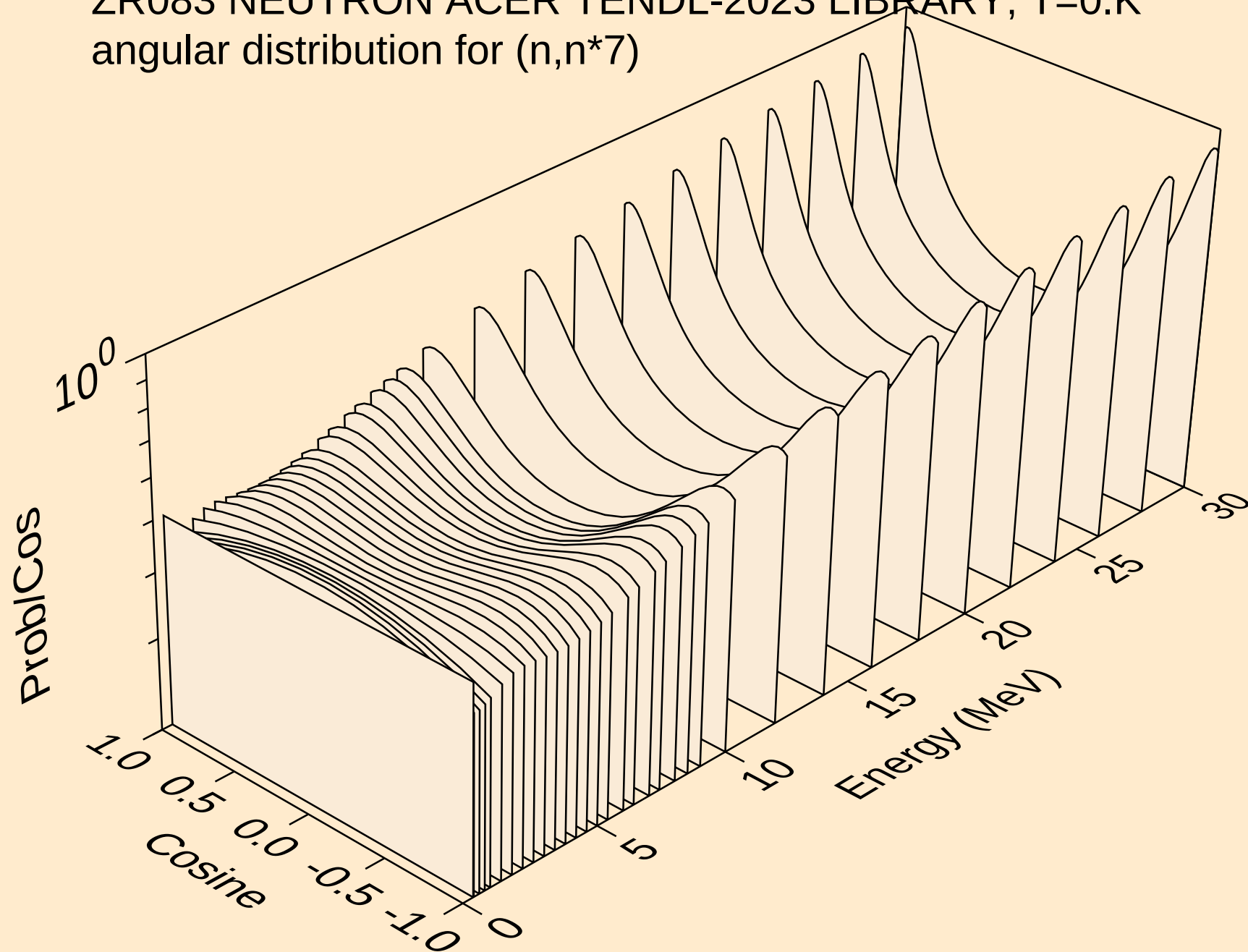
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angular distribution for (n,n*5)



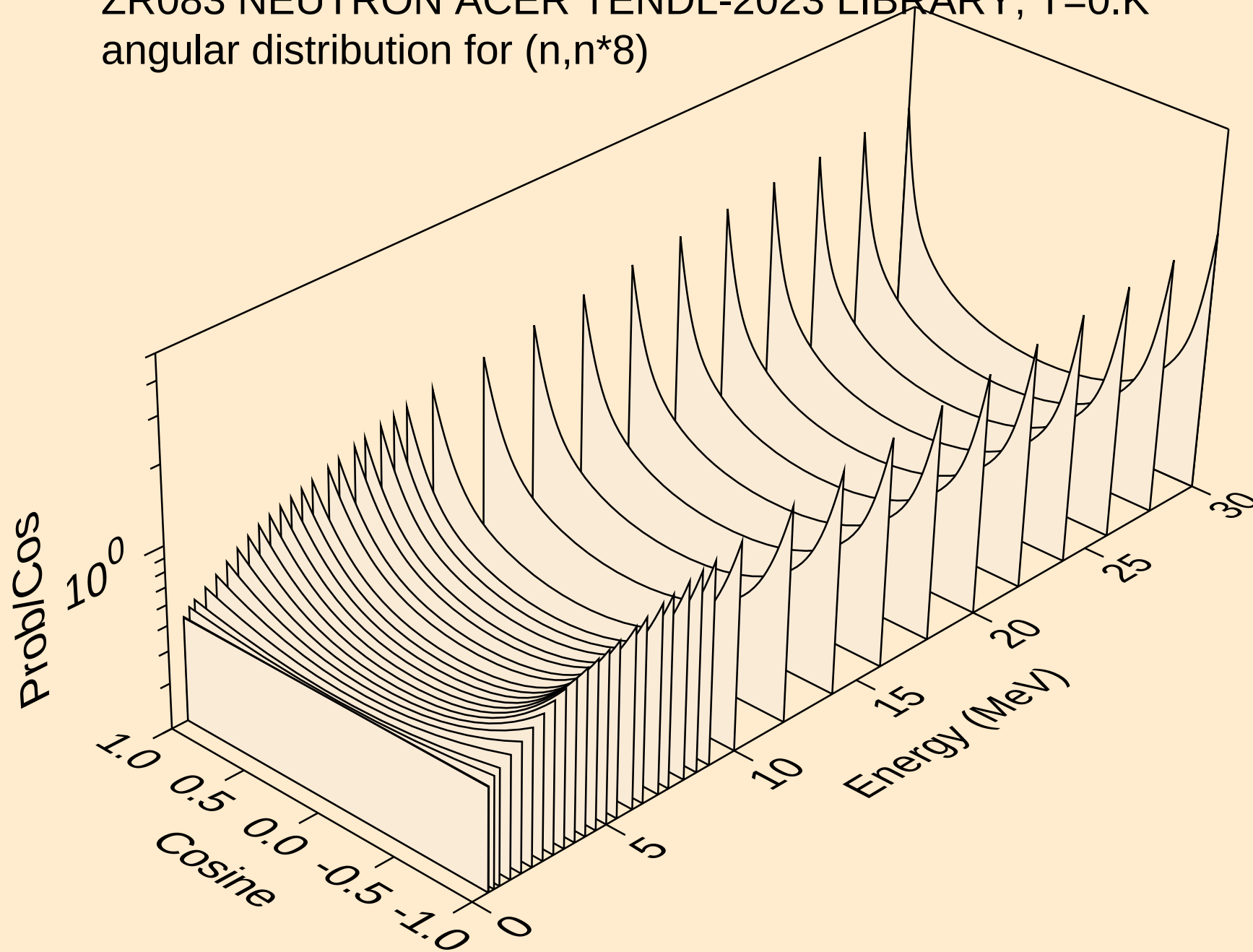
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angular distribution for (n,n*6)



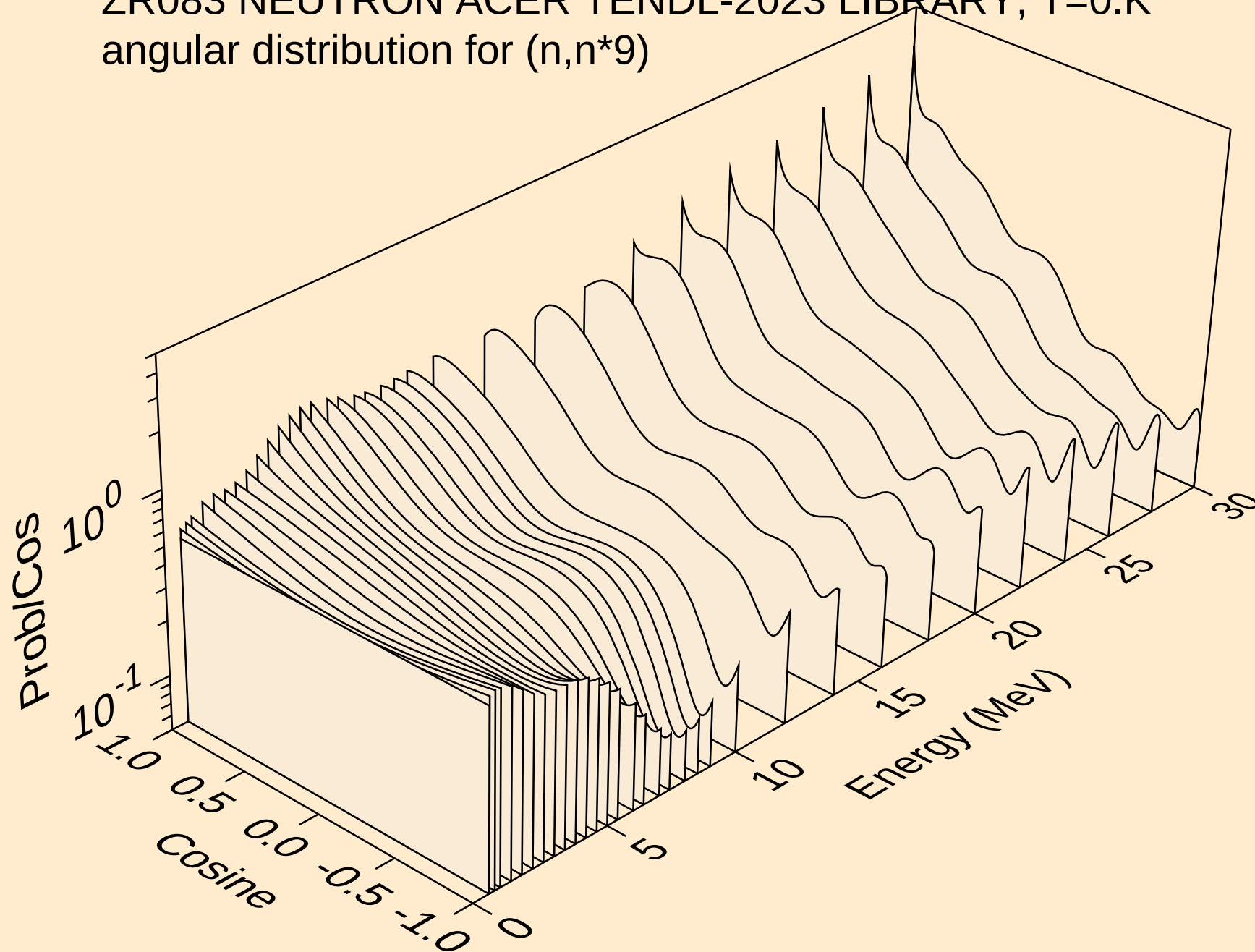
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angular distribution for (n,n*7)



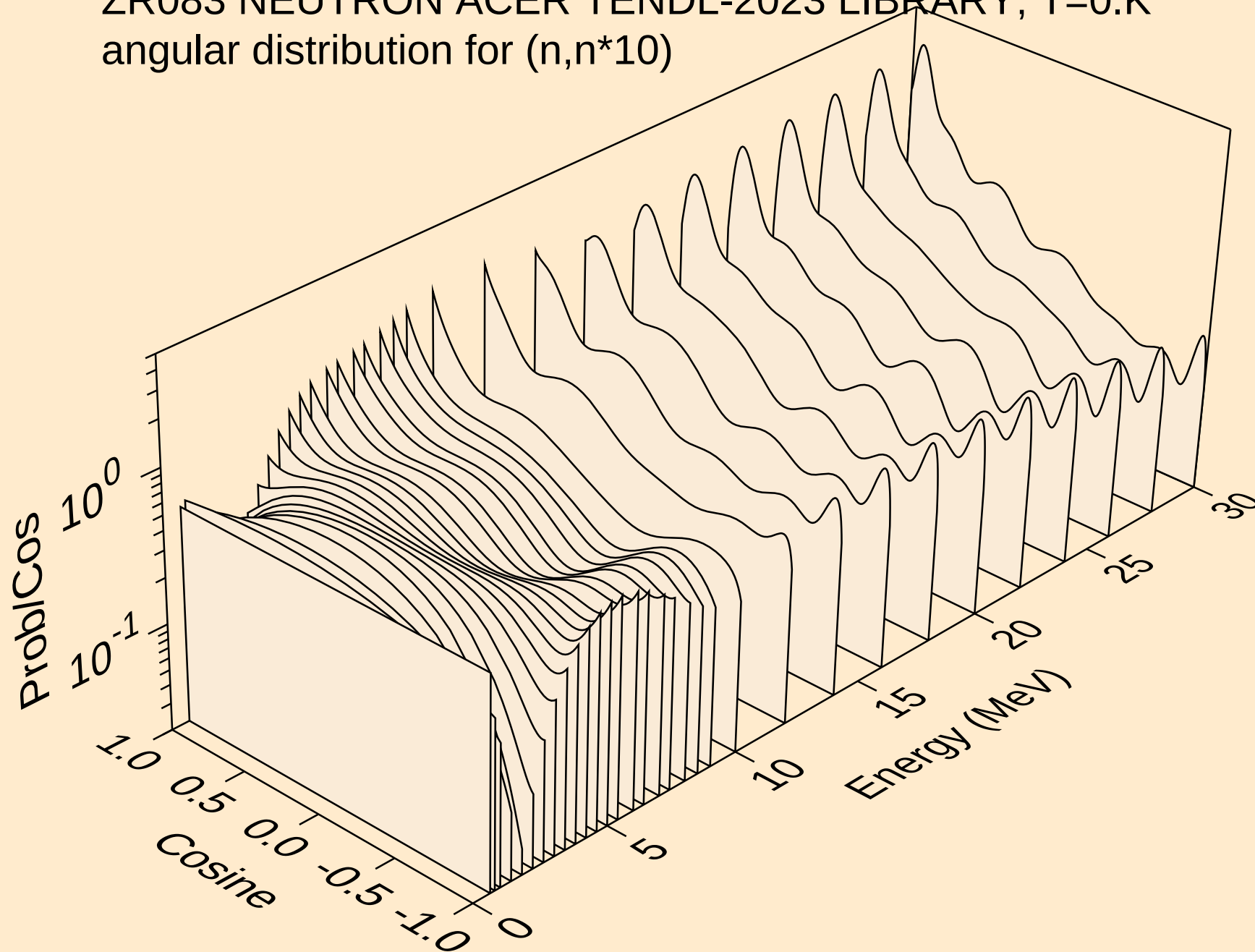
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angular distribution for (n,n*8)



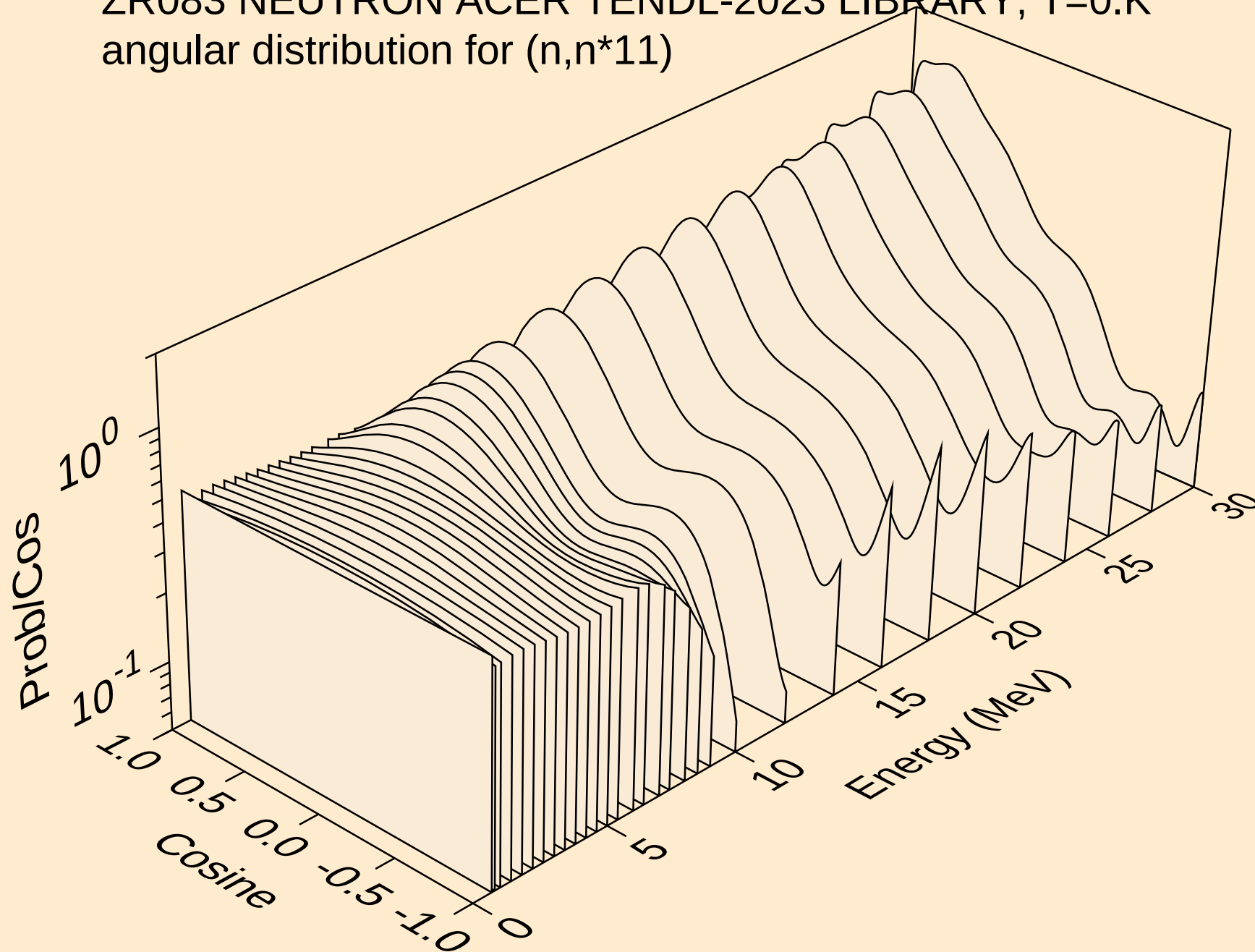
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angular distribution for (n,n*9)



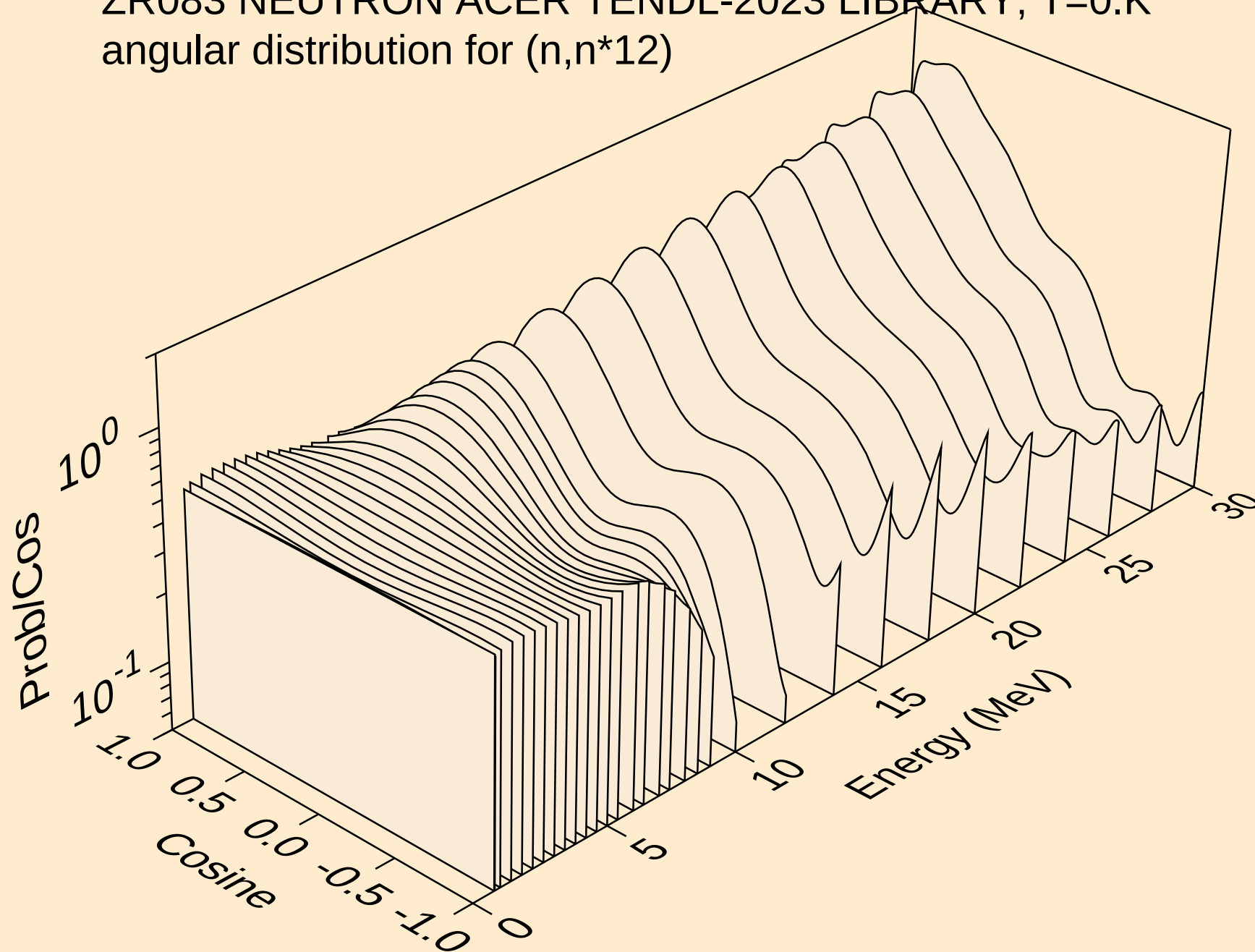
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angular distribution for (n,n*10)



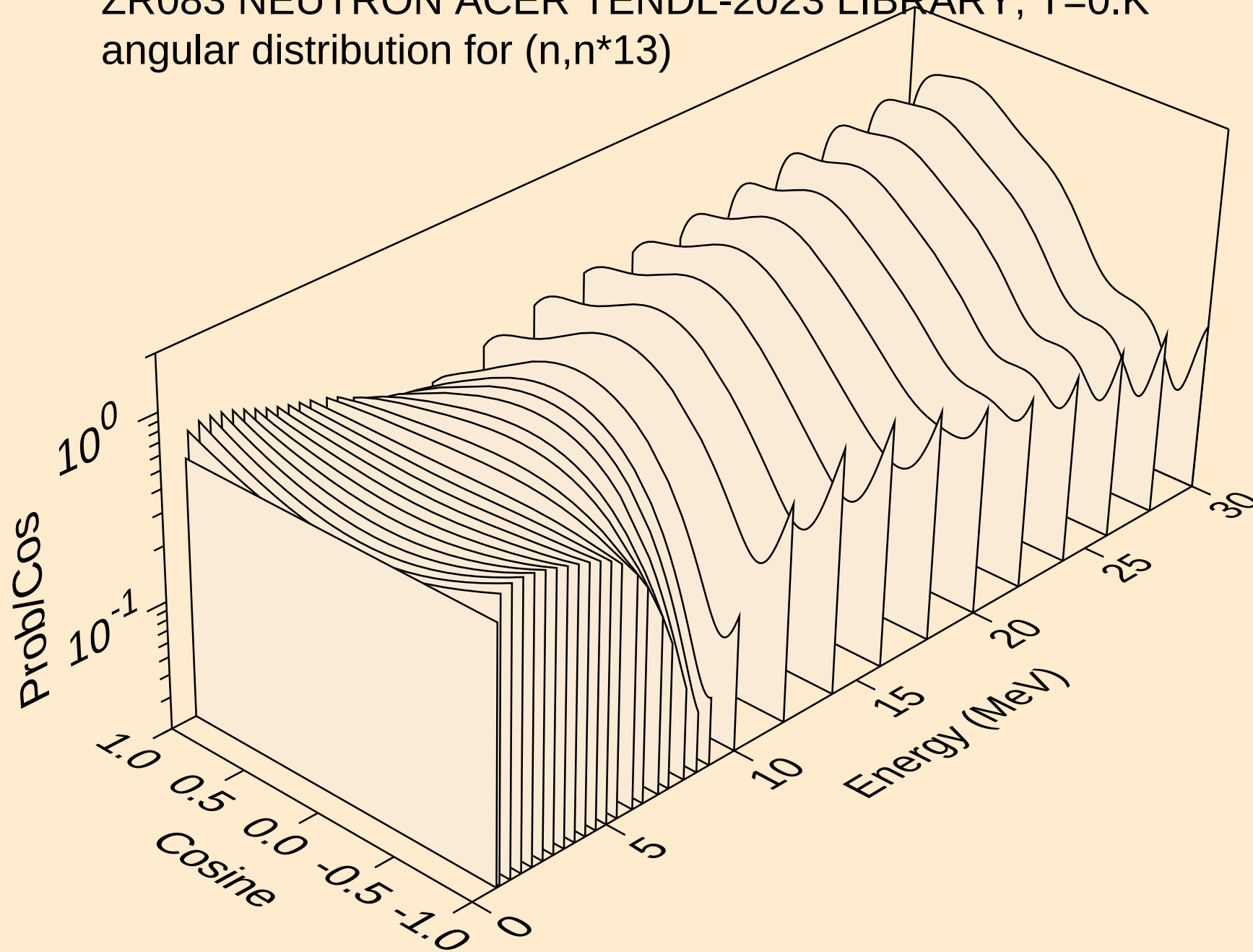
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angular distribution for (n,n*11)



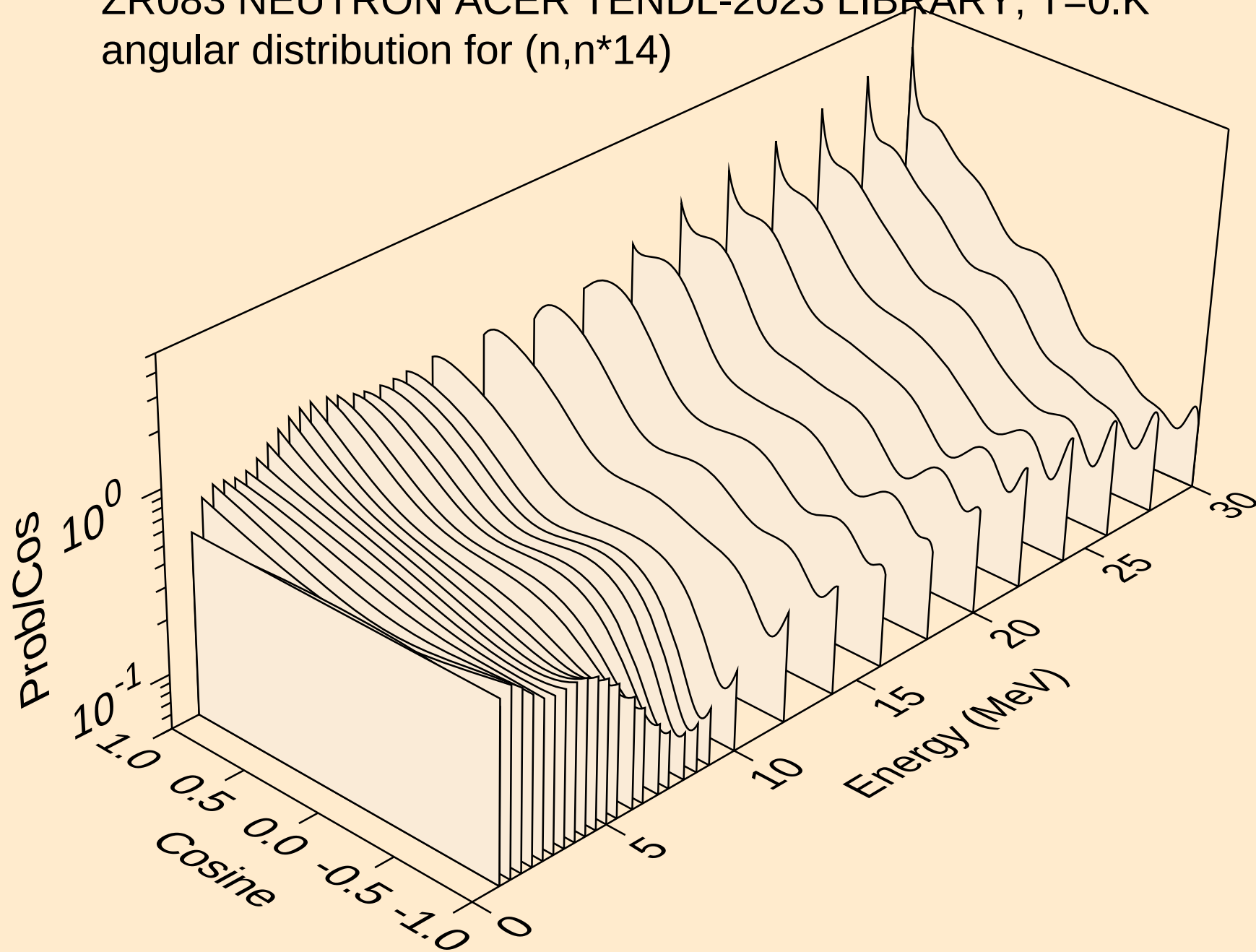
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angular distribution for (n,n*12)



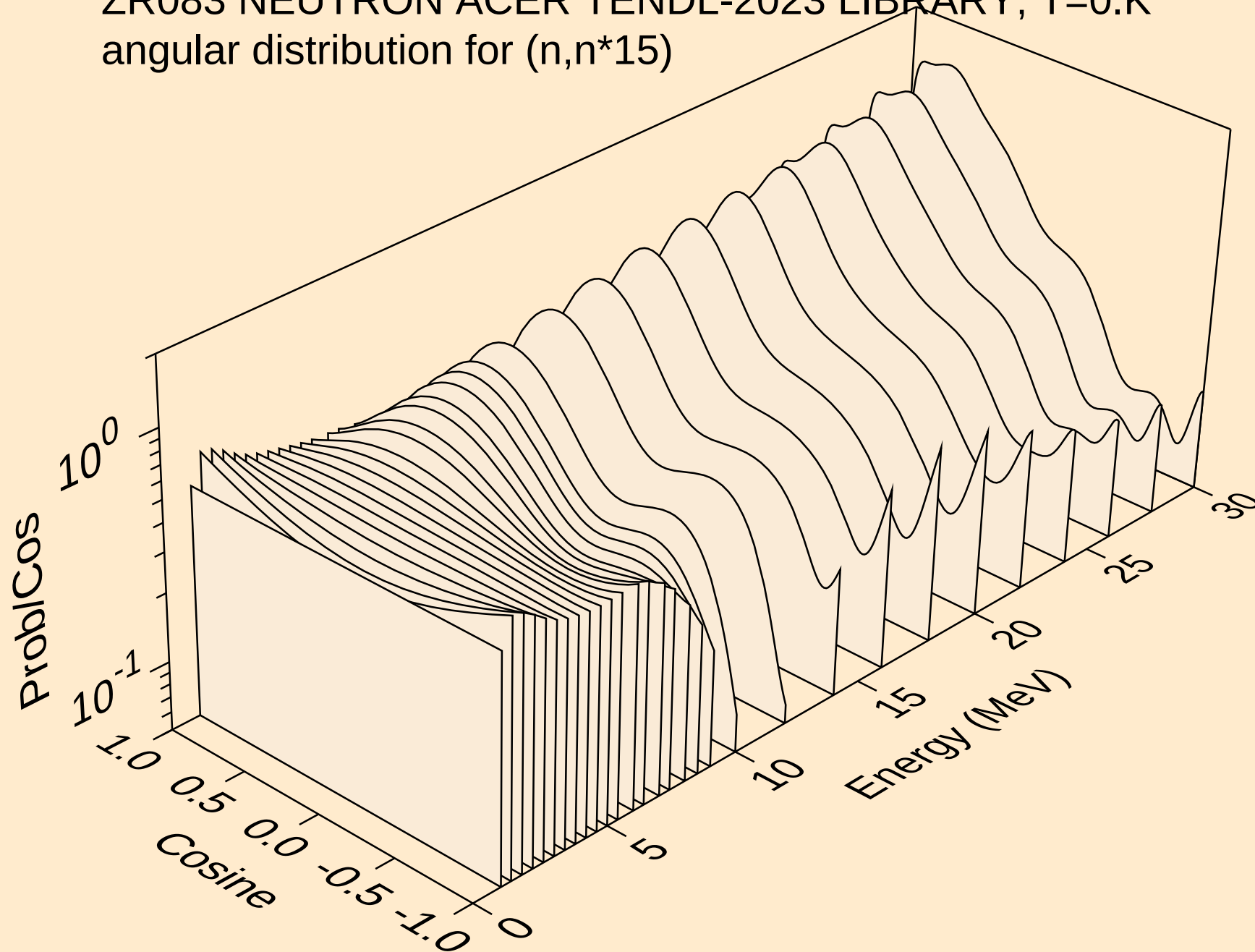
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angular distribution for (n,n*13)



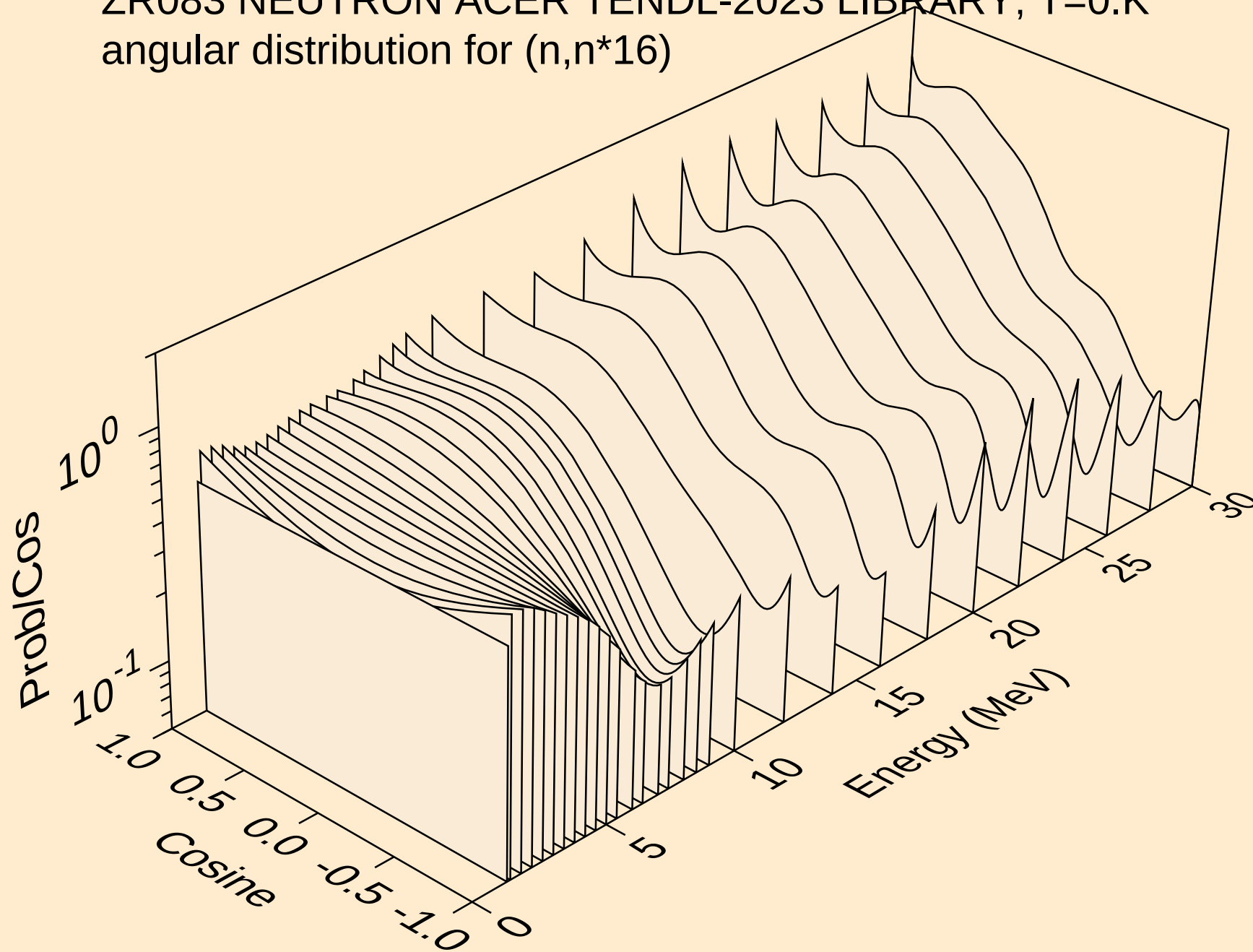
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angular distribution for (n,n*14)



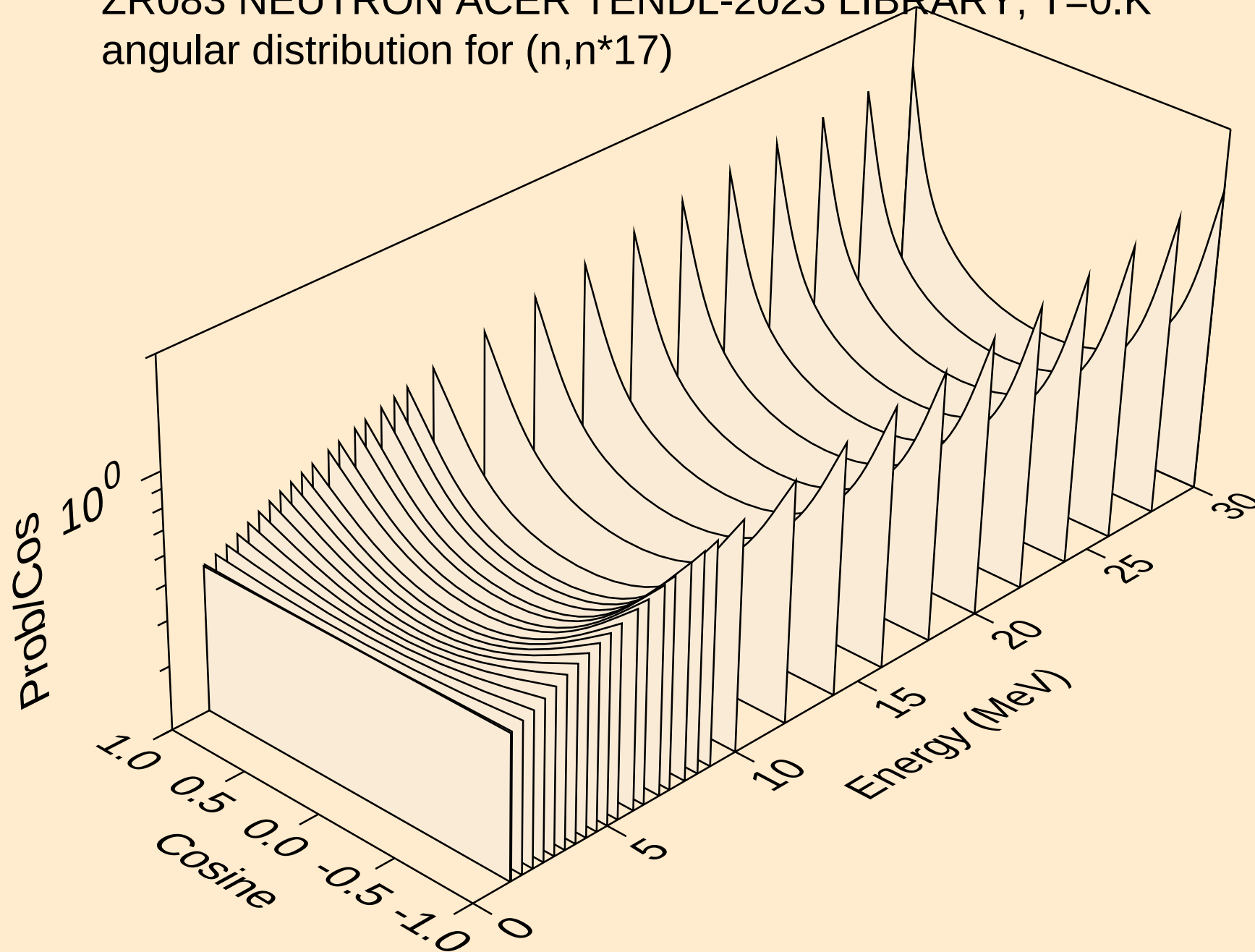
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angular distribution for (n,n*15)



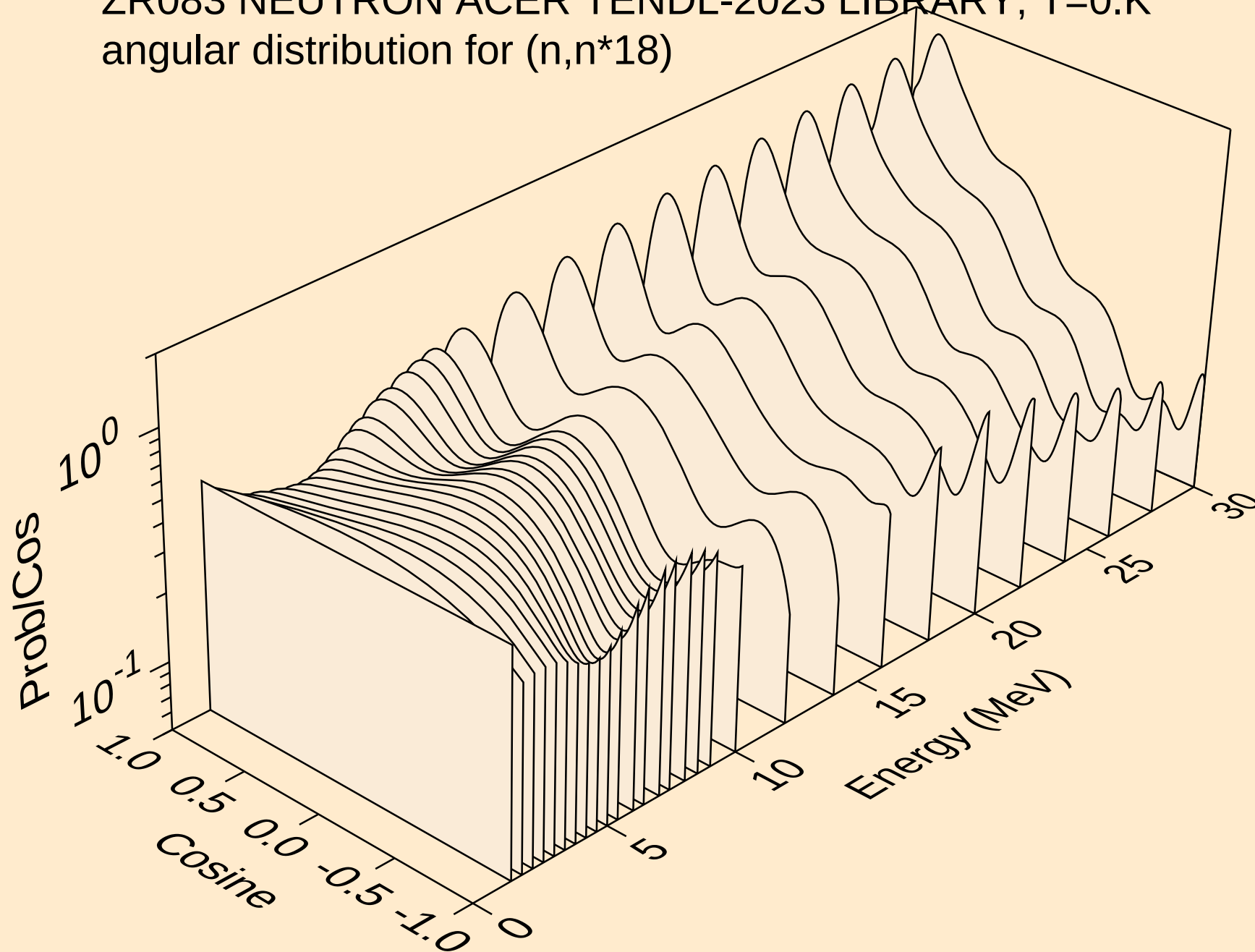
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angular distribution for (n,n*16)



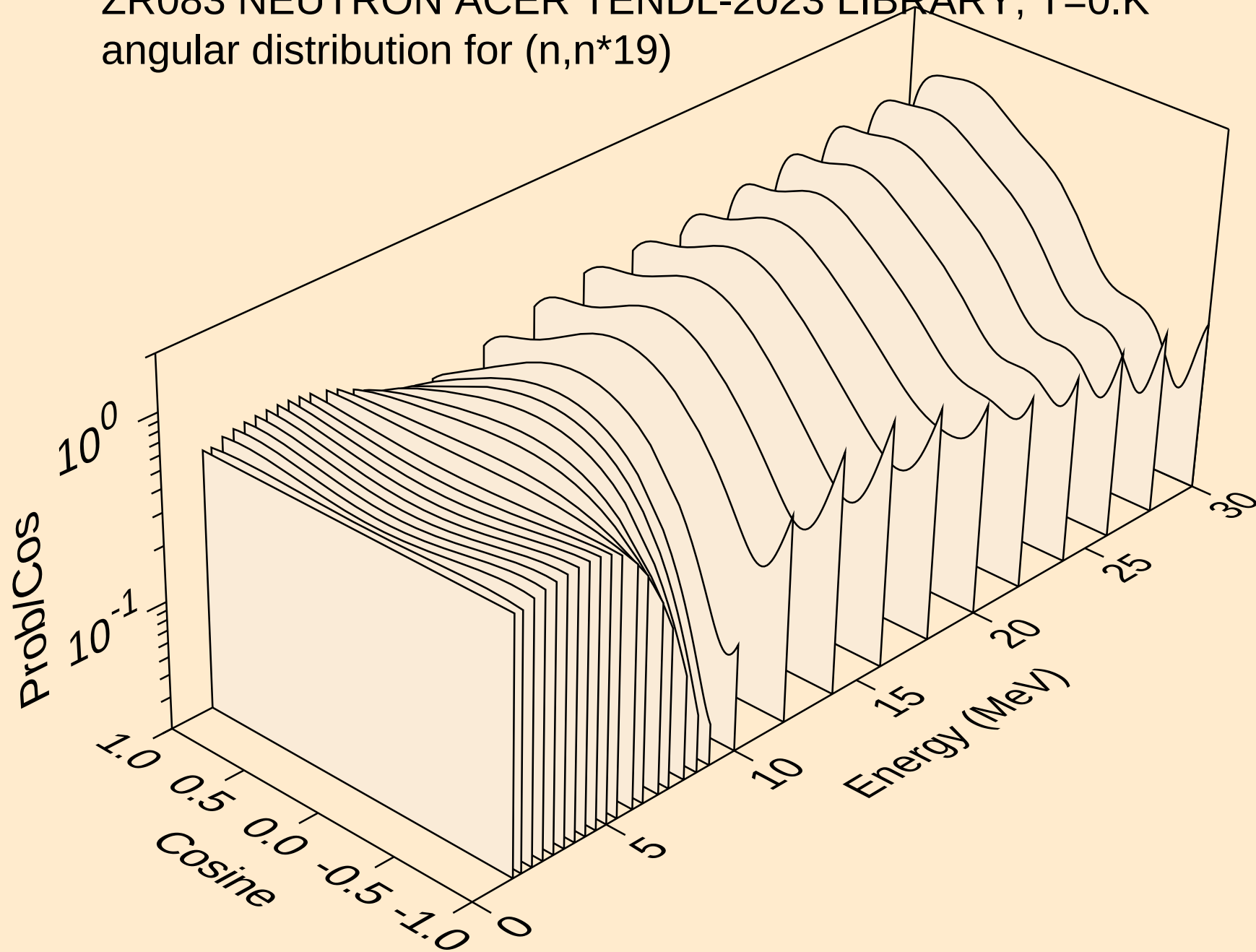
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angular distribution for (n,n*17)



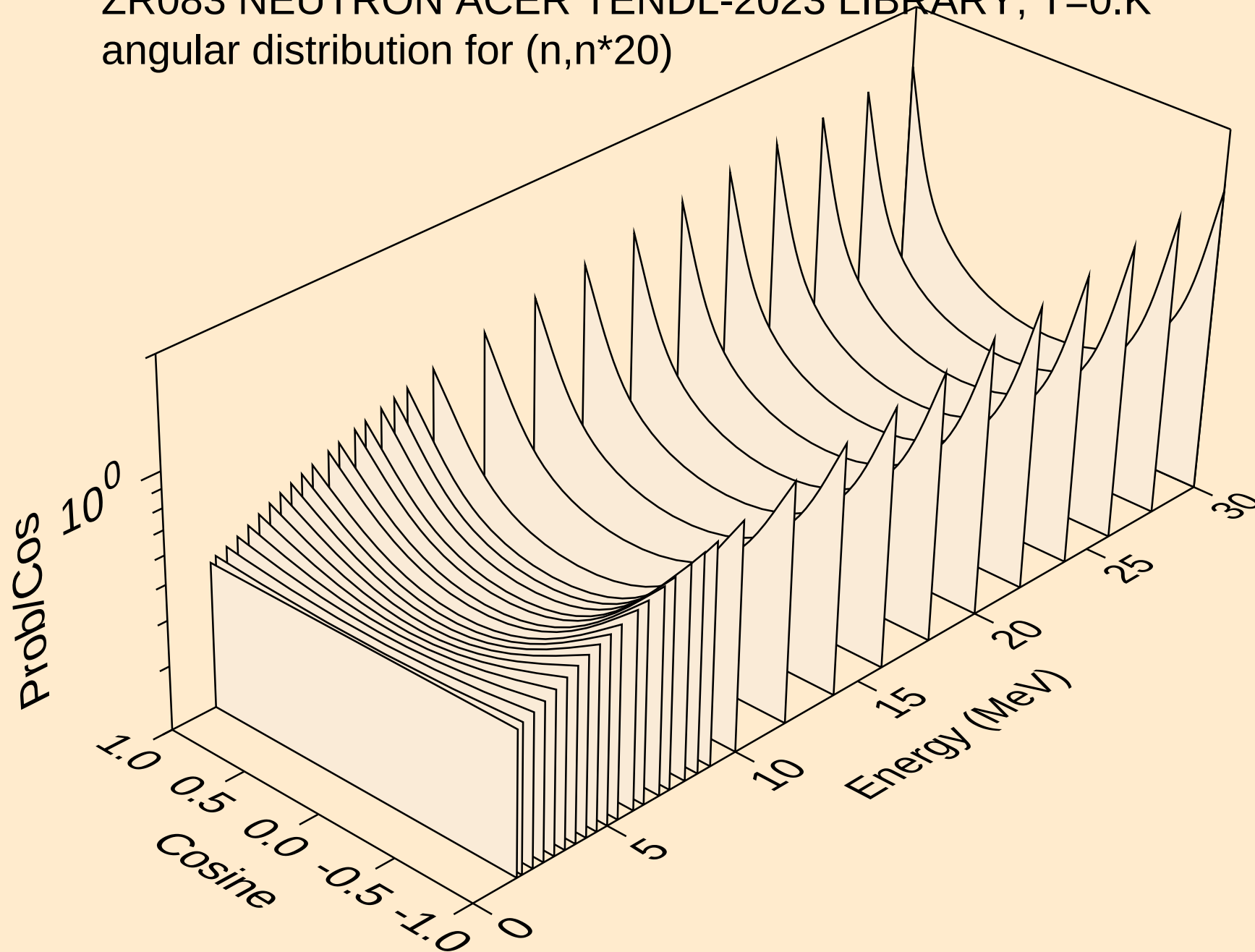
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angular distribution for (n,n*18)



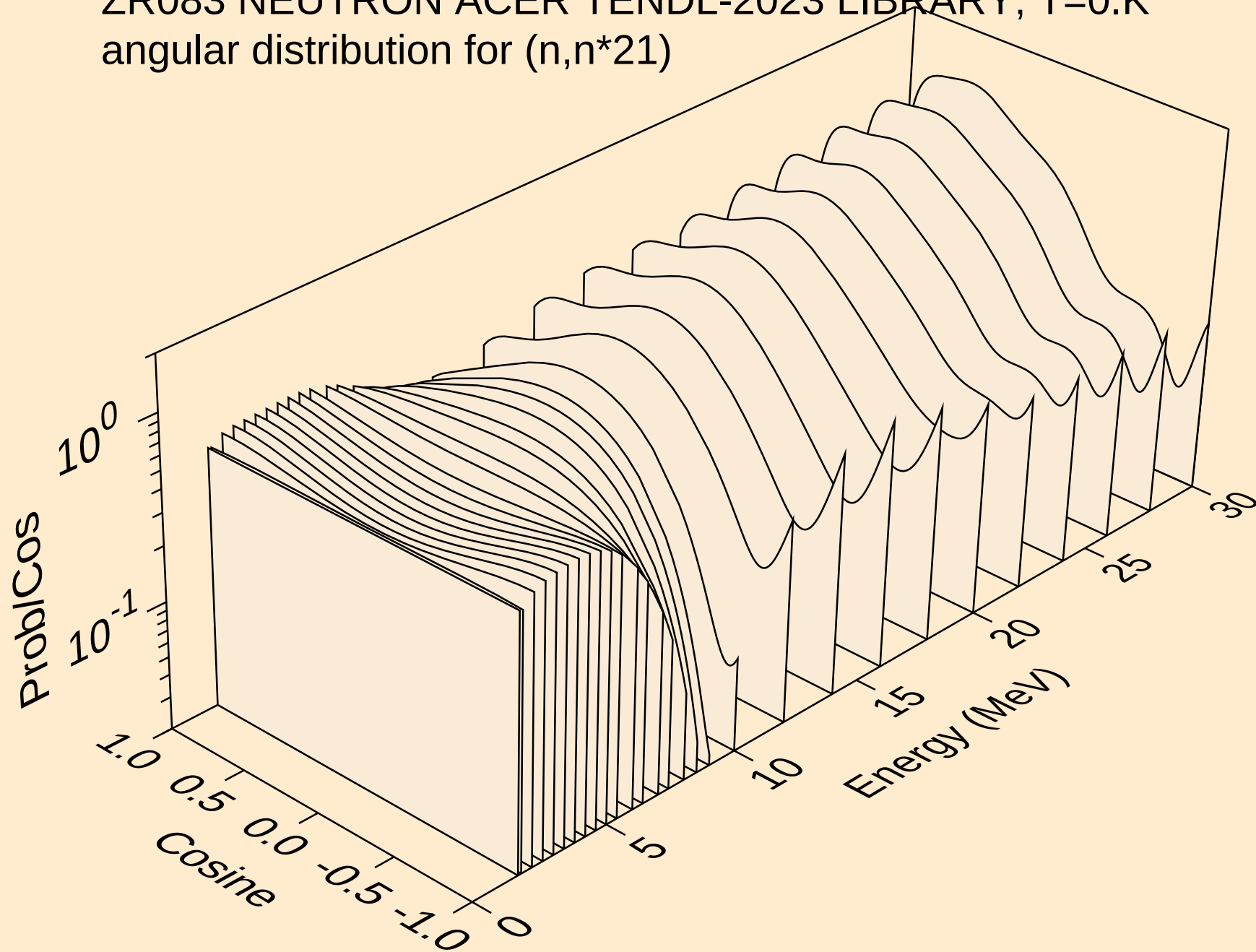
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angular distribution for (n,n*19)



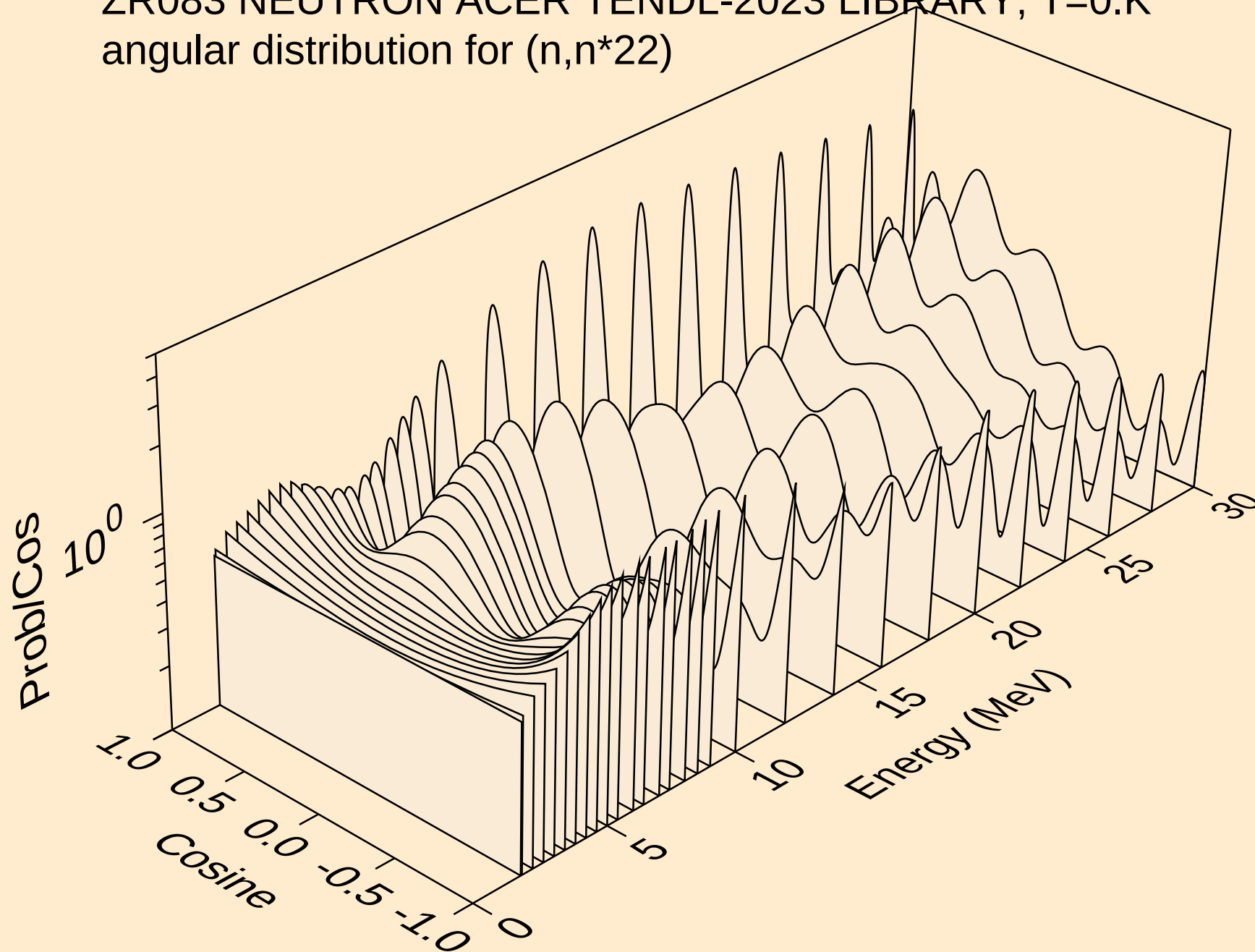
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angular distribution for (n,n*20)



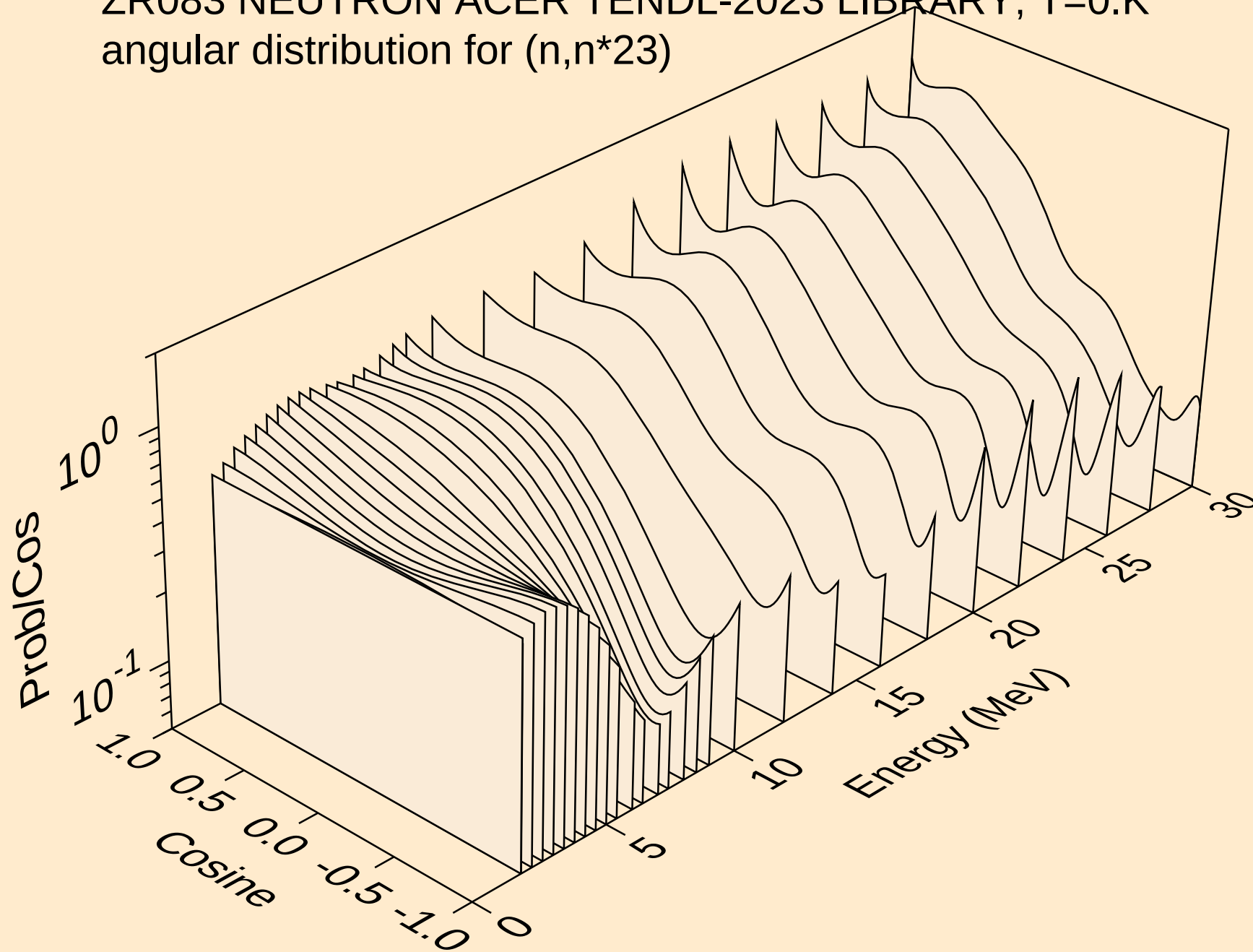
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angular distribution for (n,n*21)



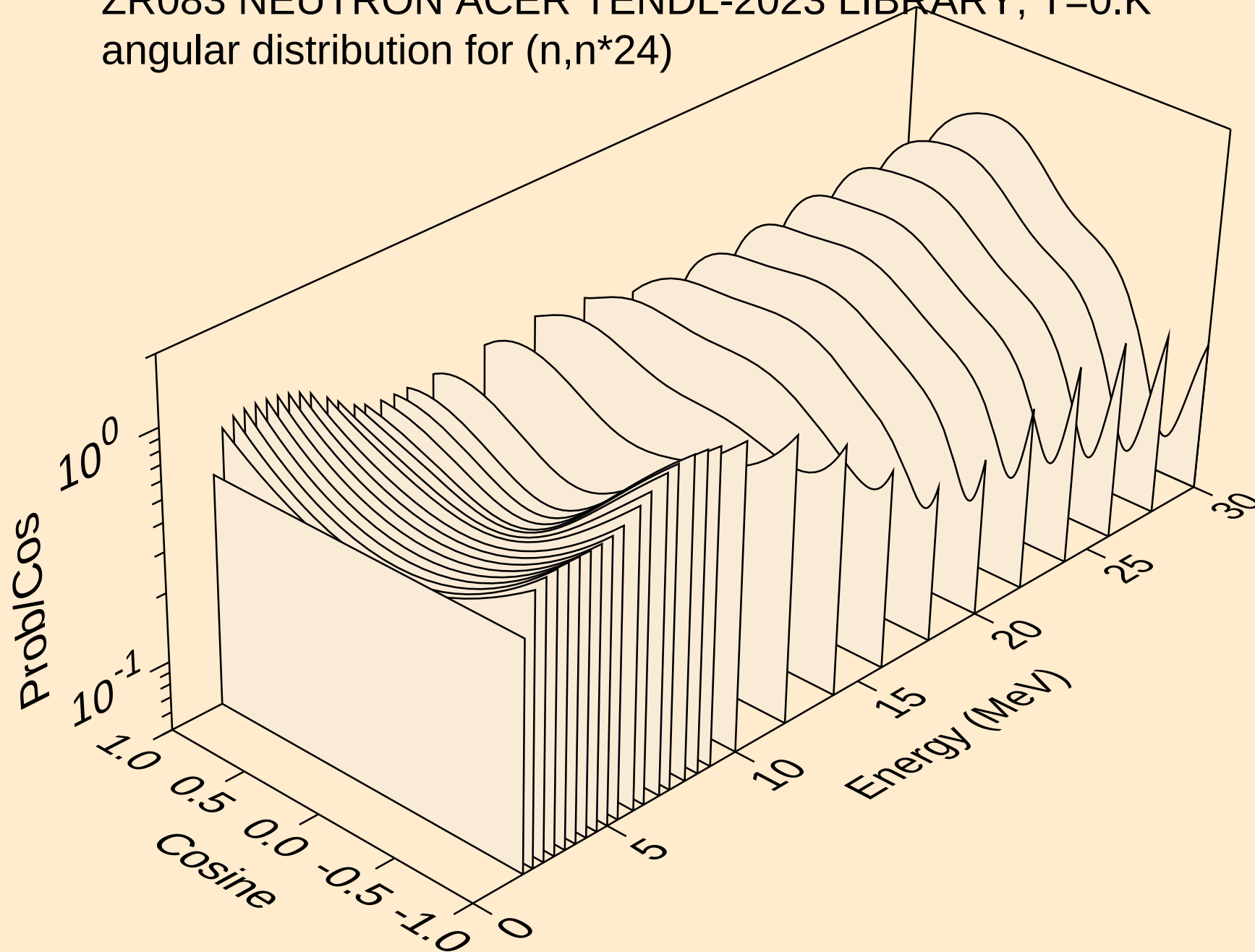
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angular distribution for (n,n*22)



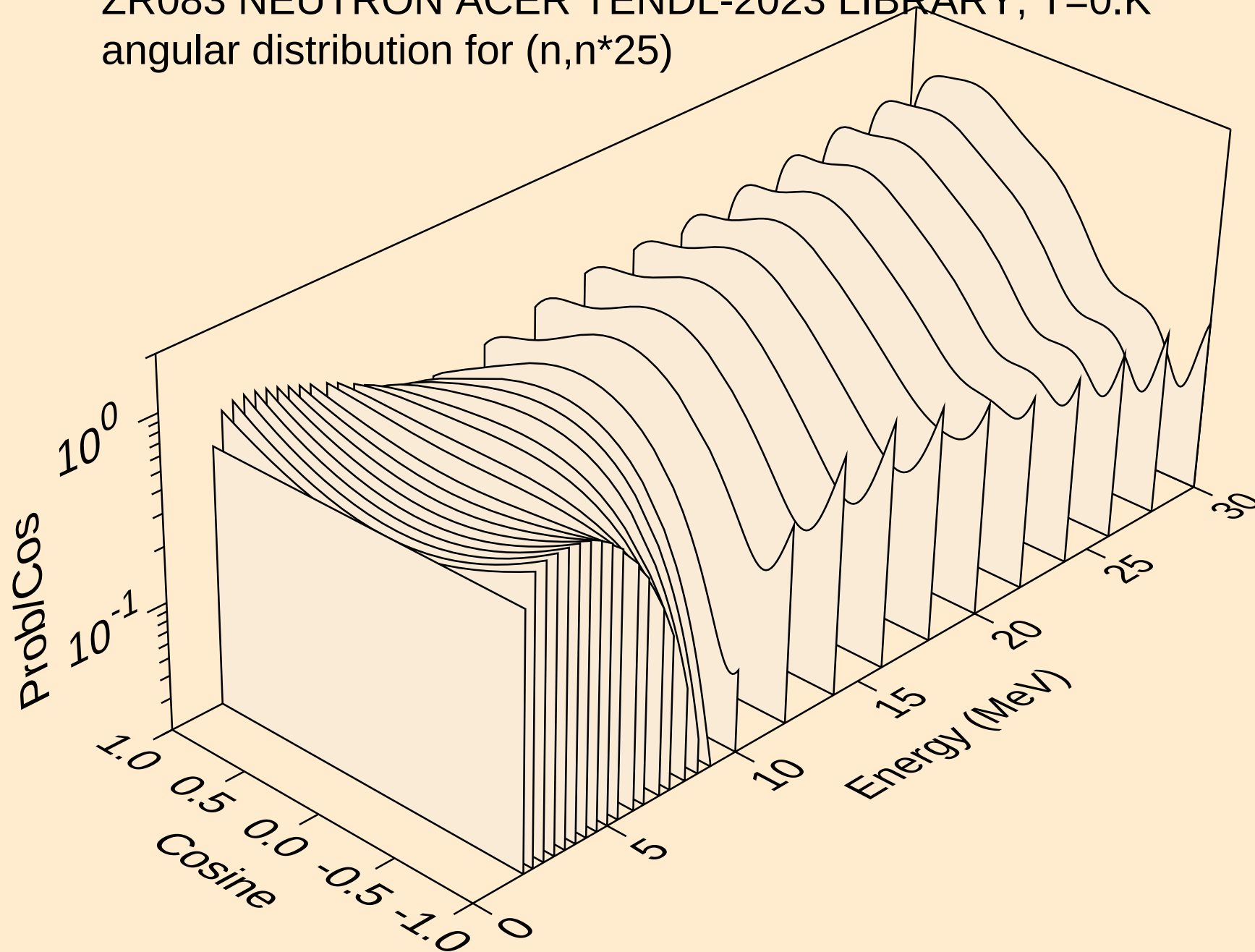
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angular distribution for (n,n*23)



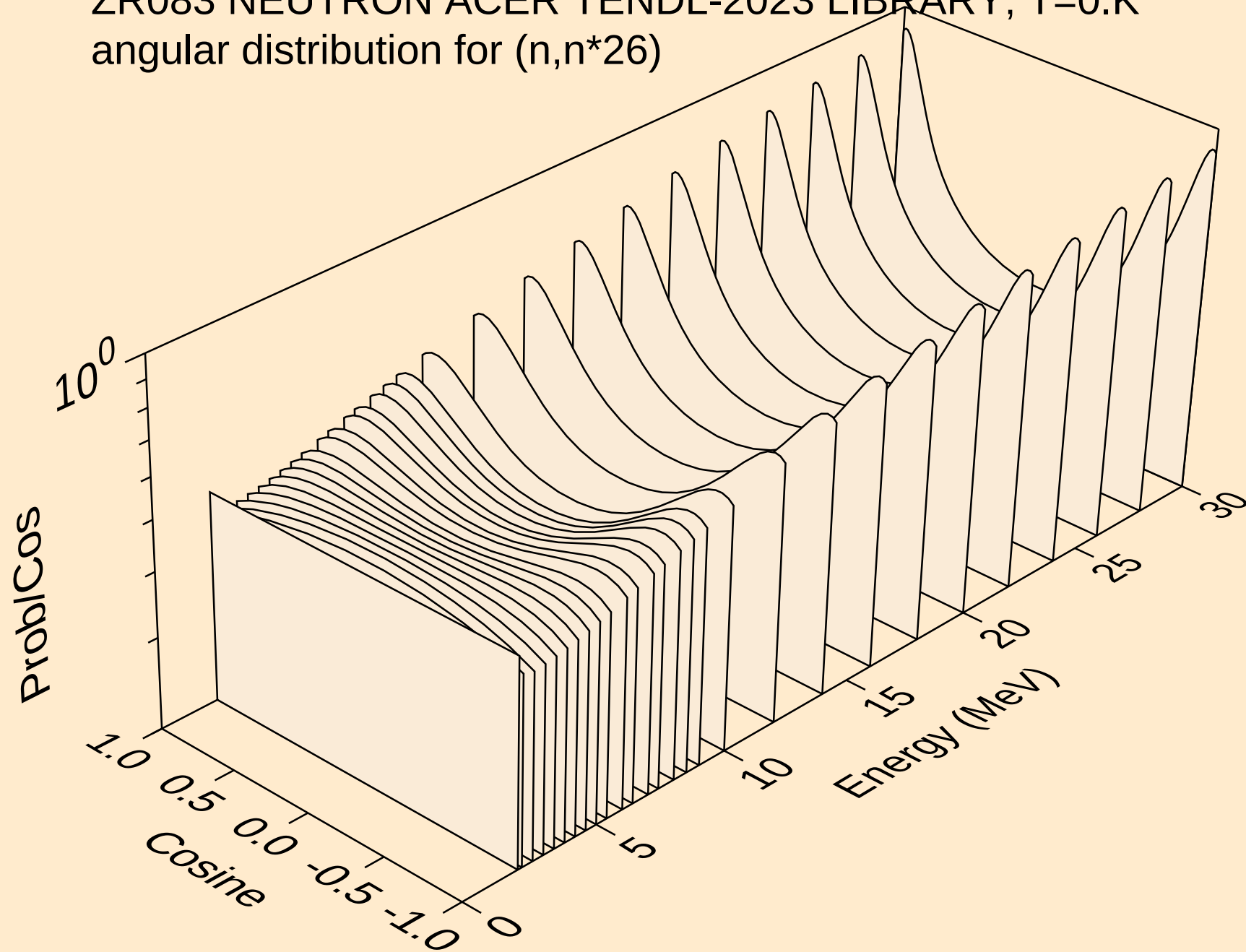
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angular distribution for (n,n*24)



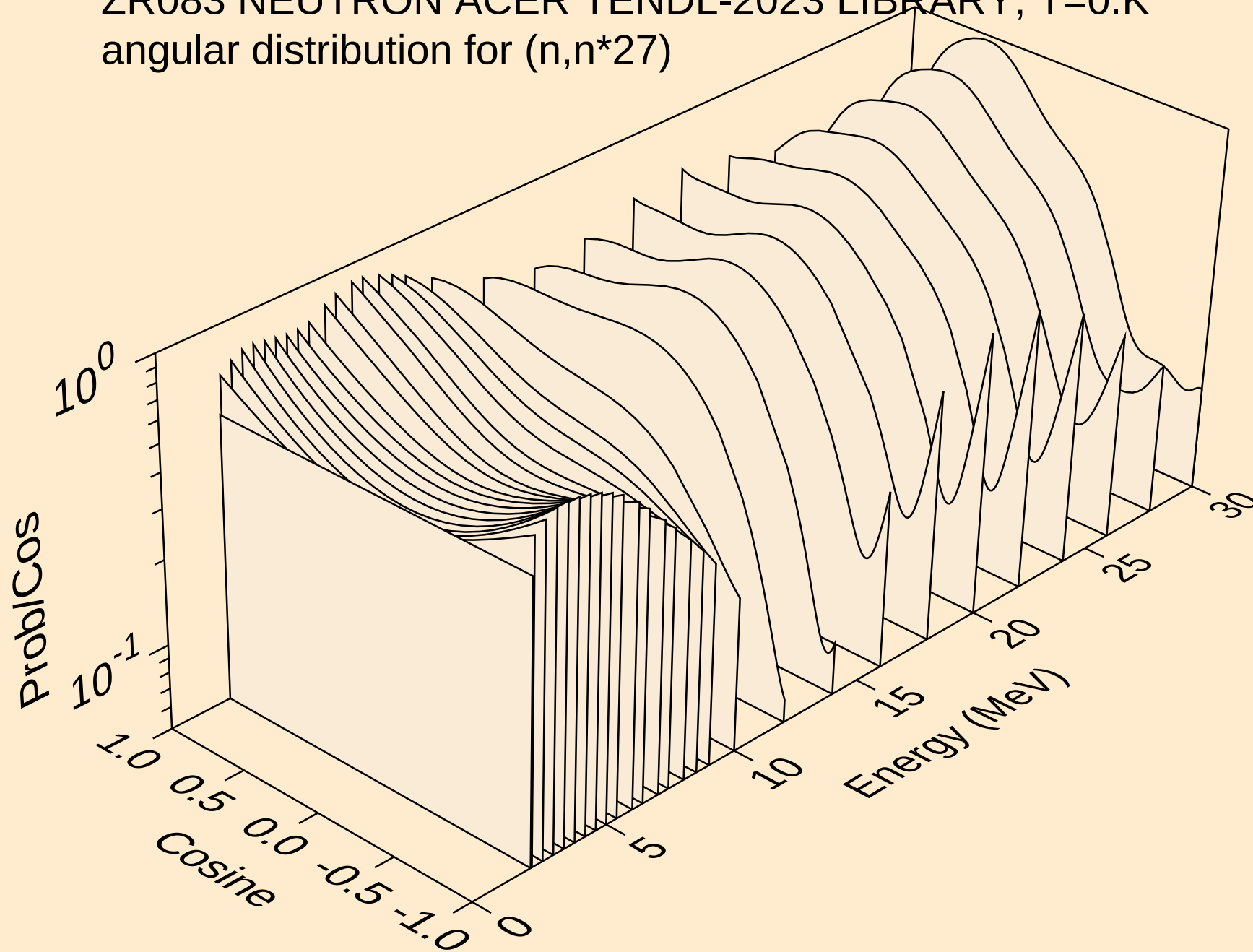
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angular distribution for (n,n*25)



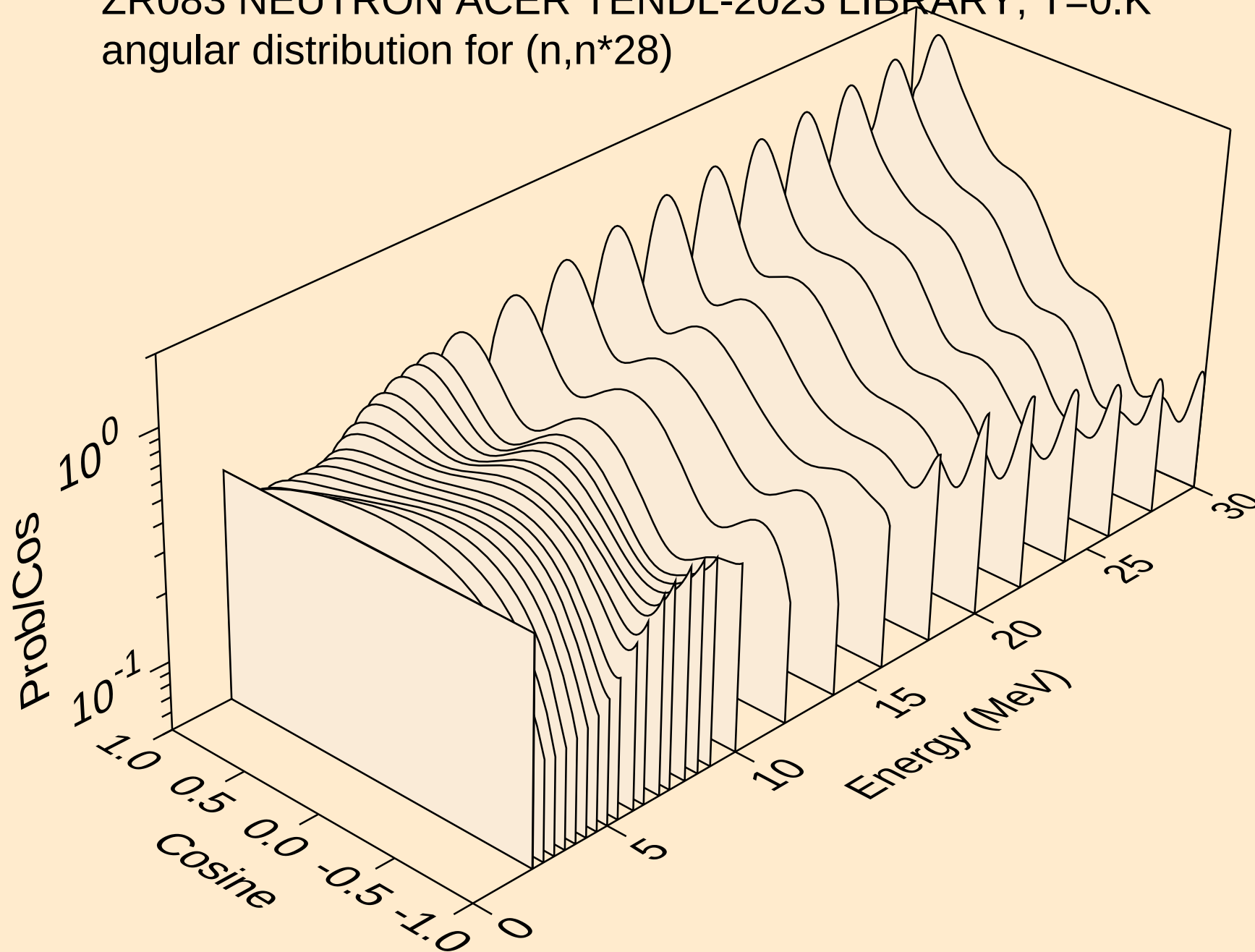
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angular distribution for (n,n*26)



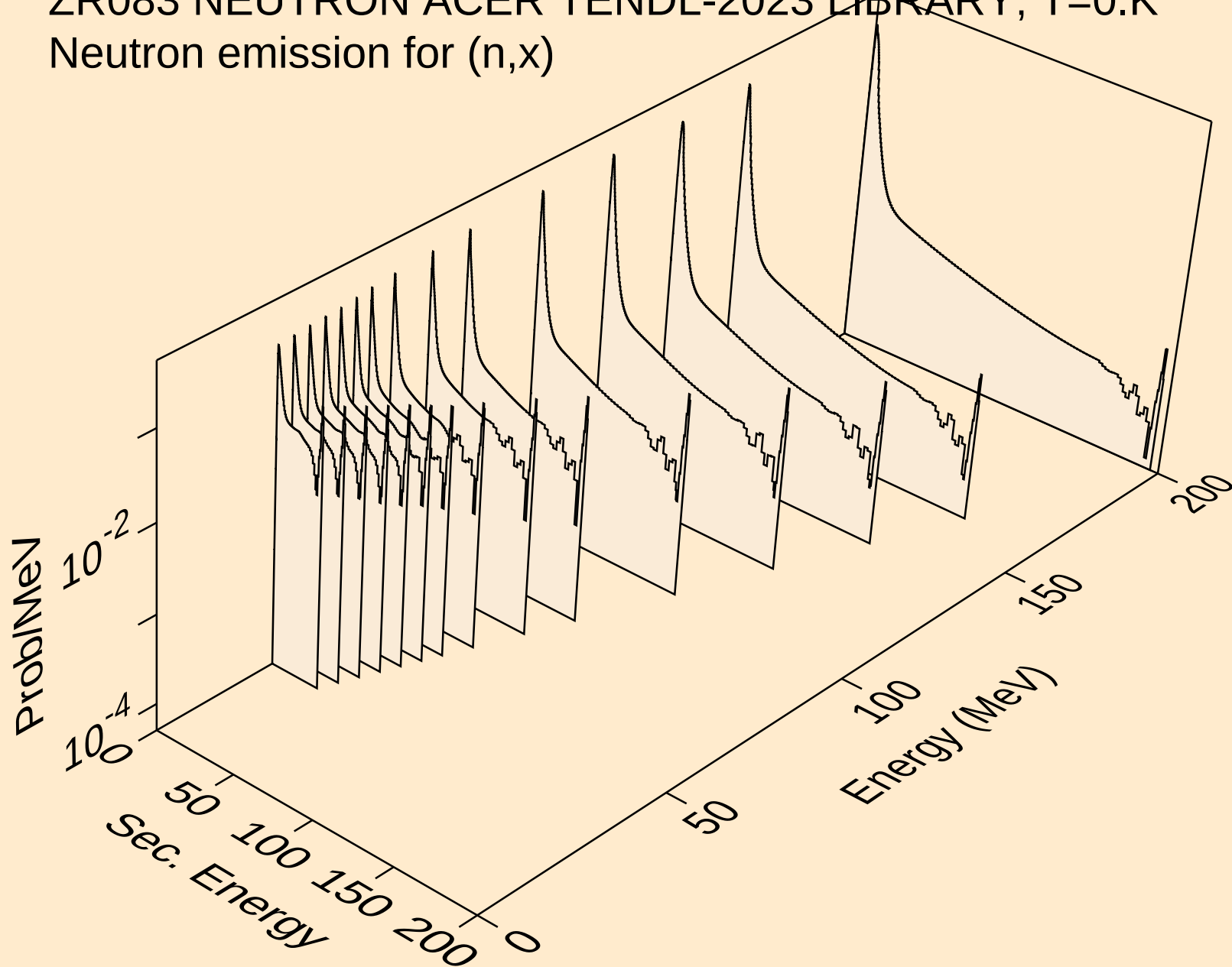
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angular distribution for (n,n*27)



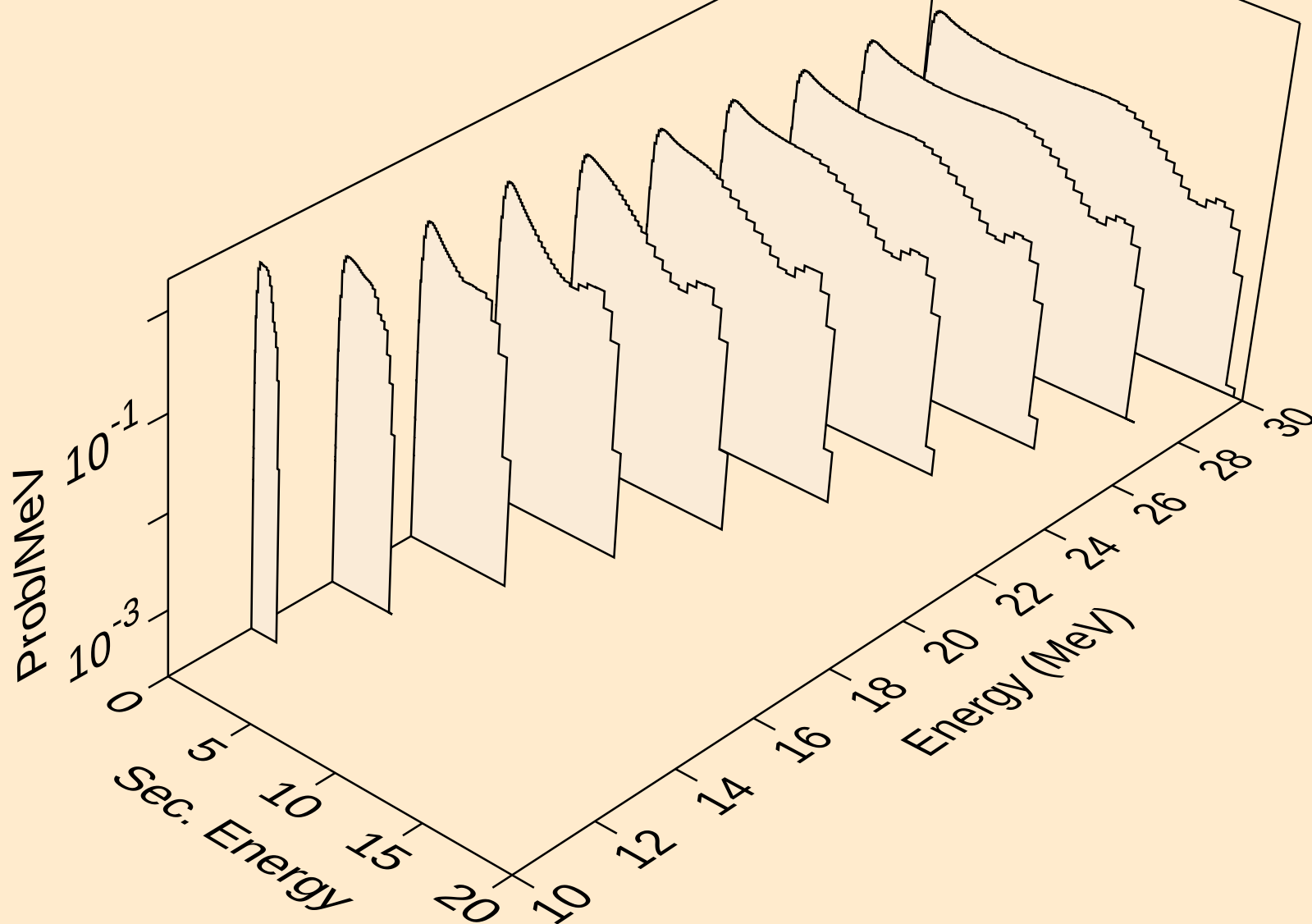
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*28)



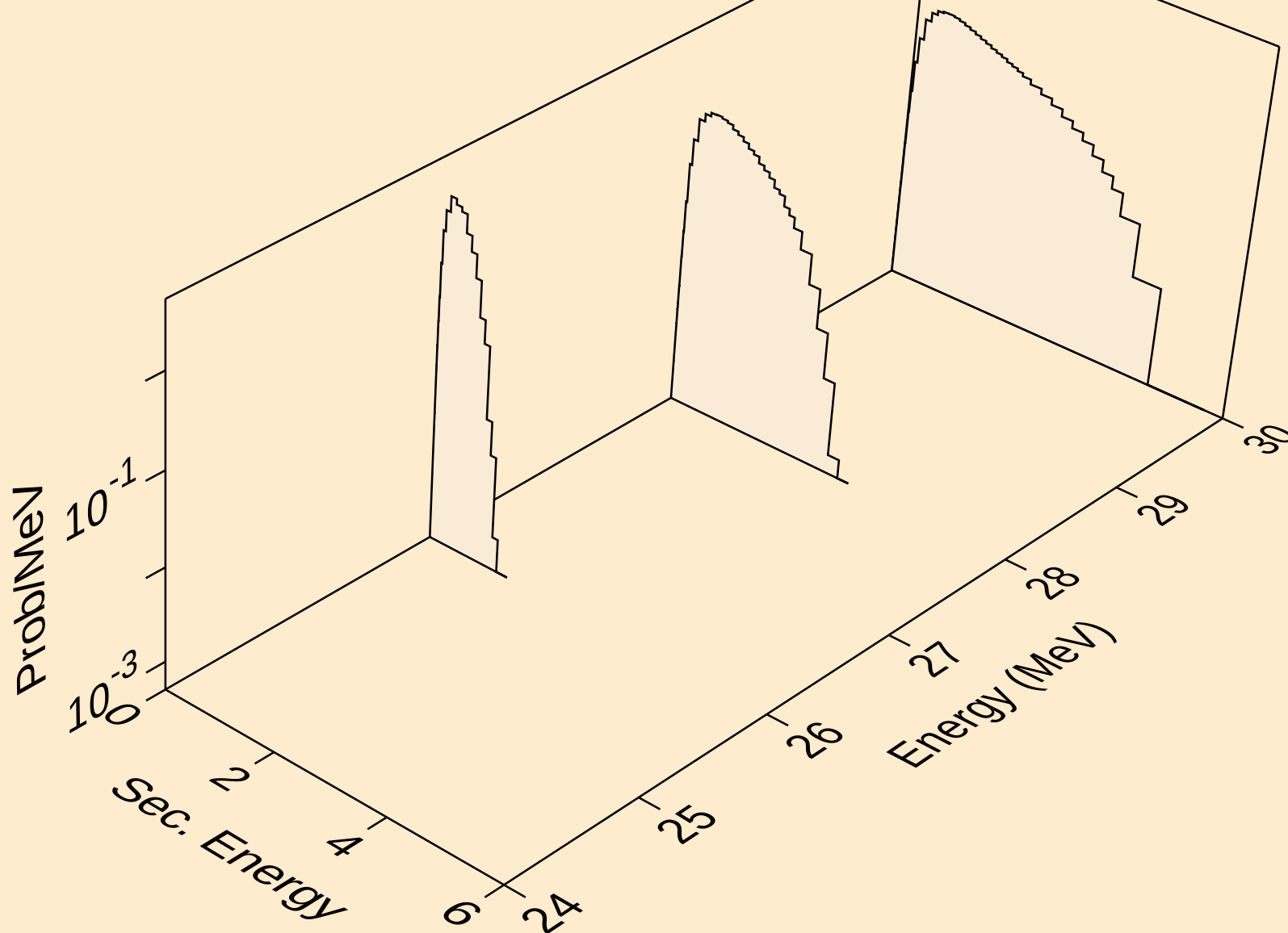
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,x)



ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)

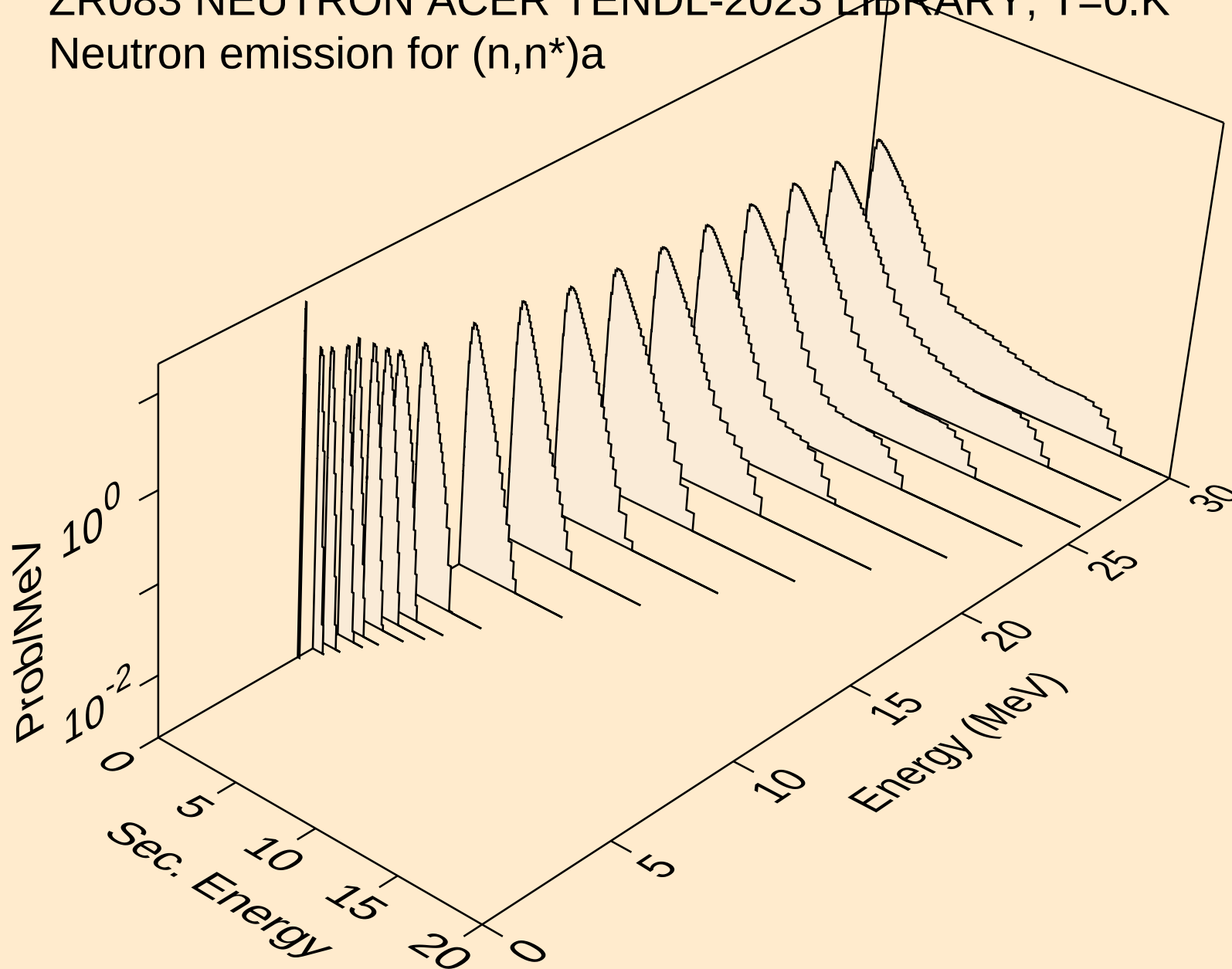


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3n)



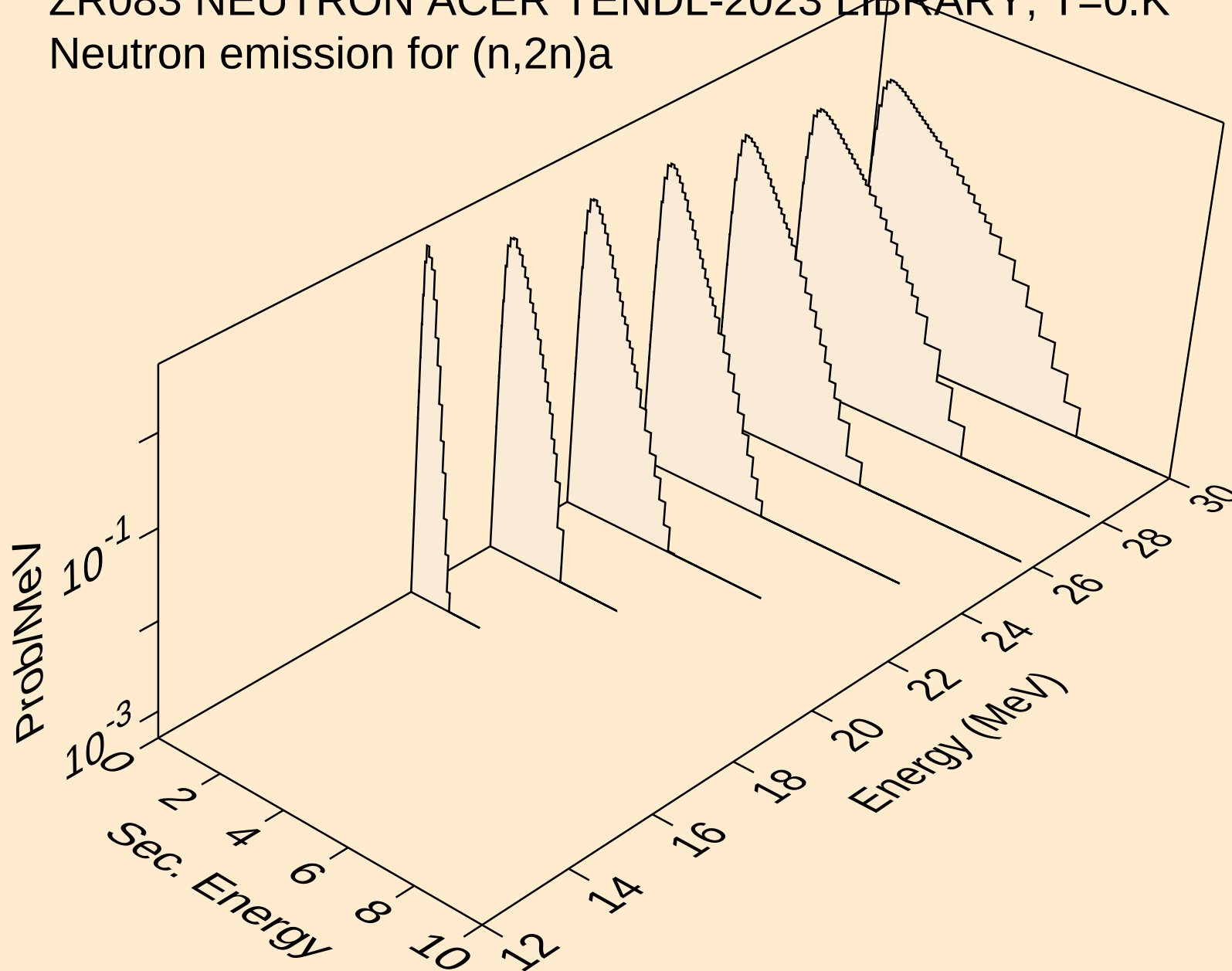
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,n*)a



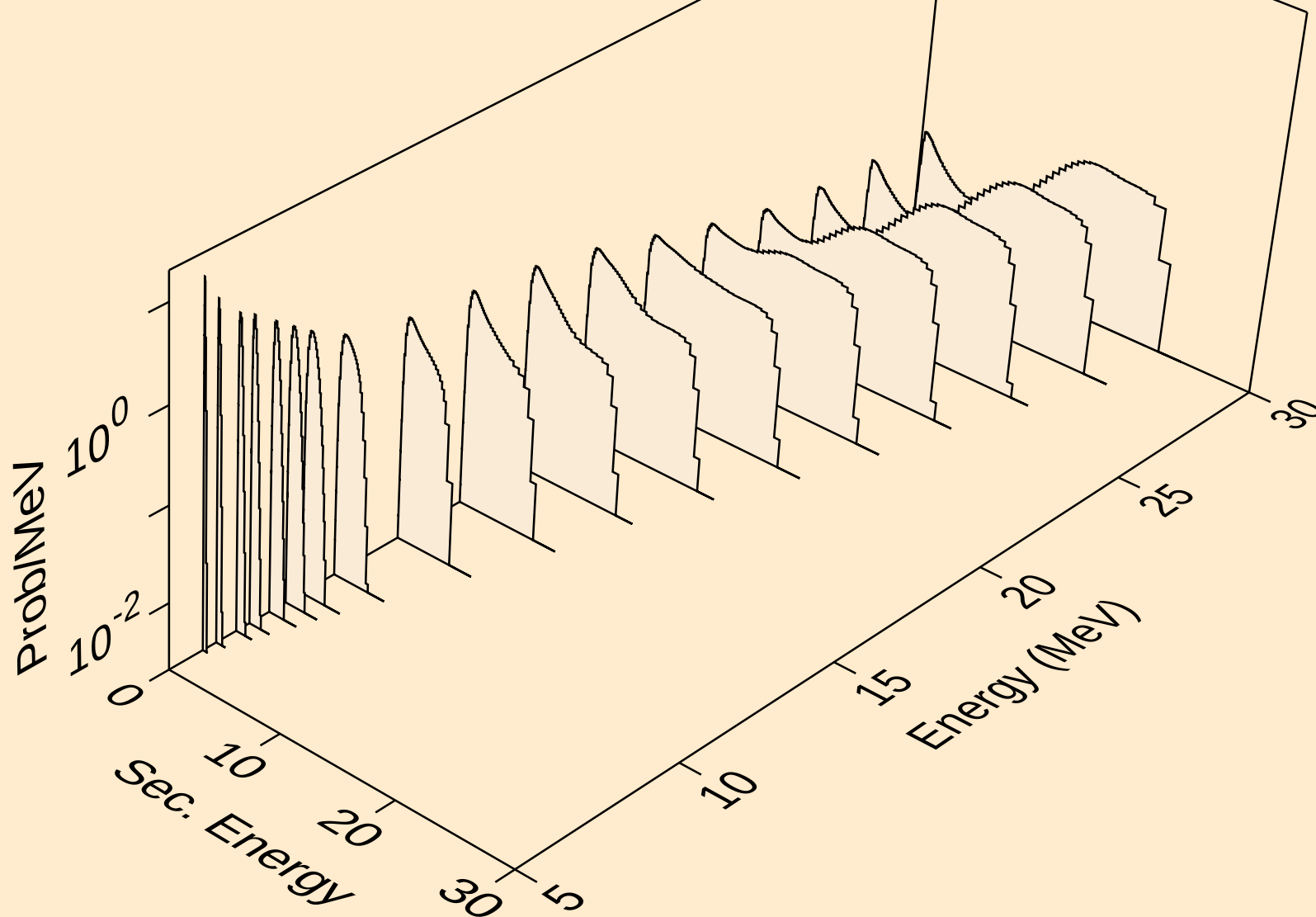
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,2n) α



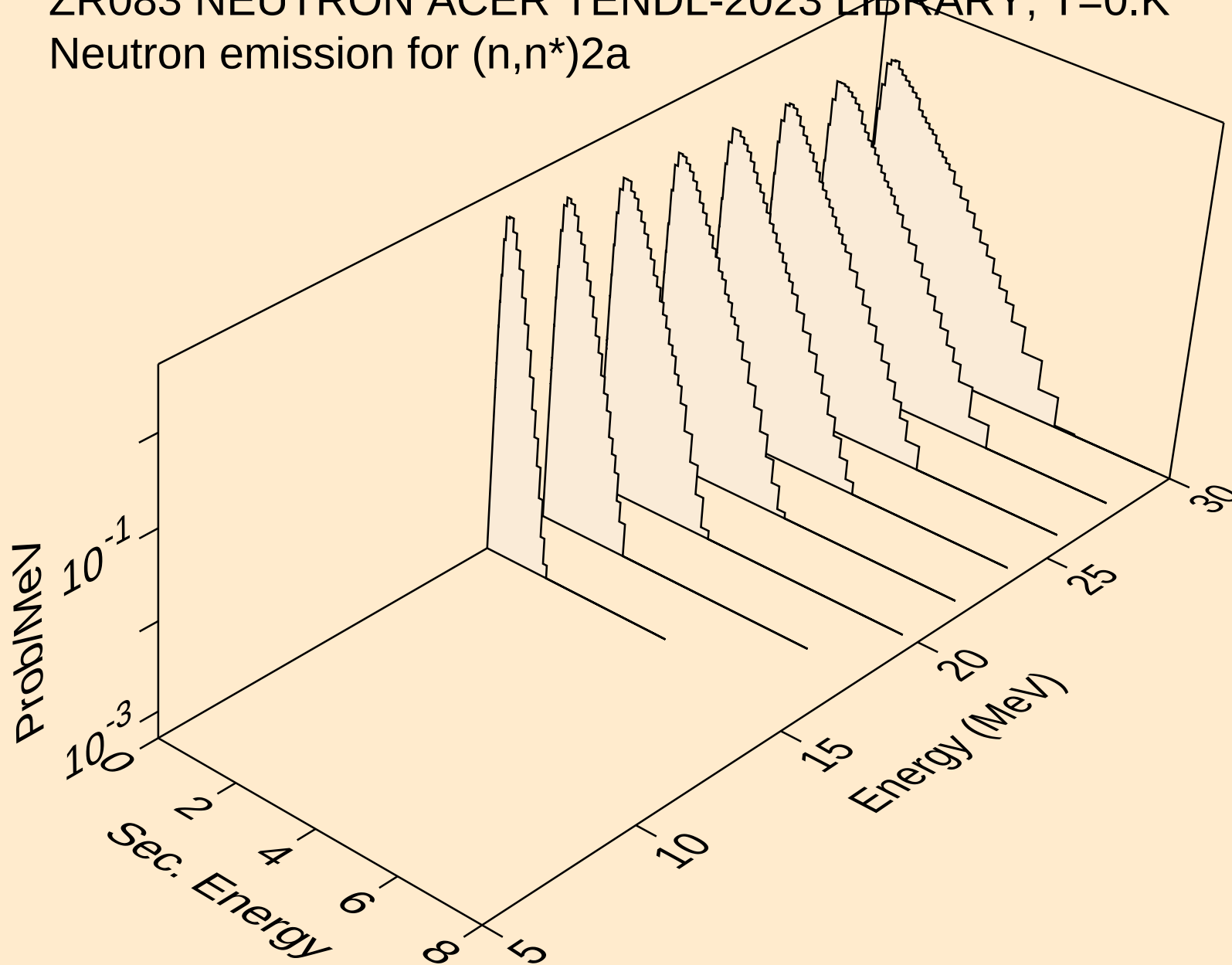
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,n*)p



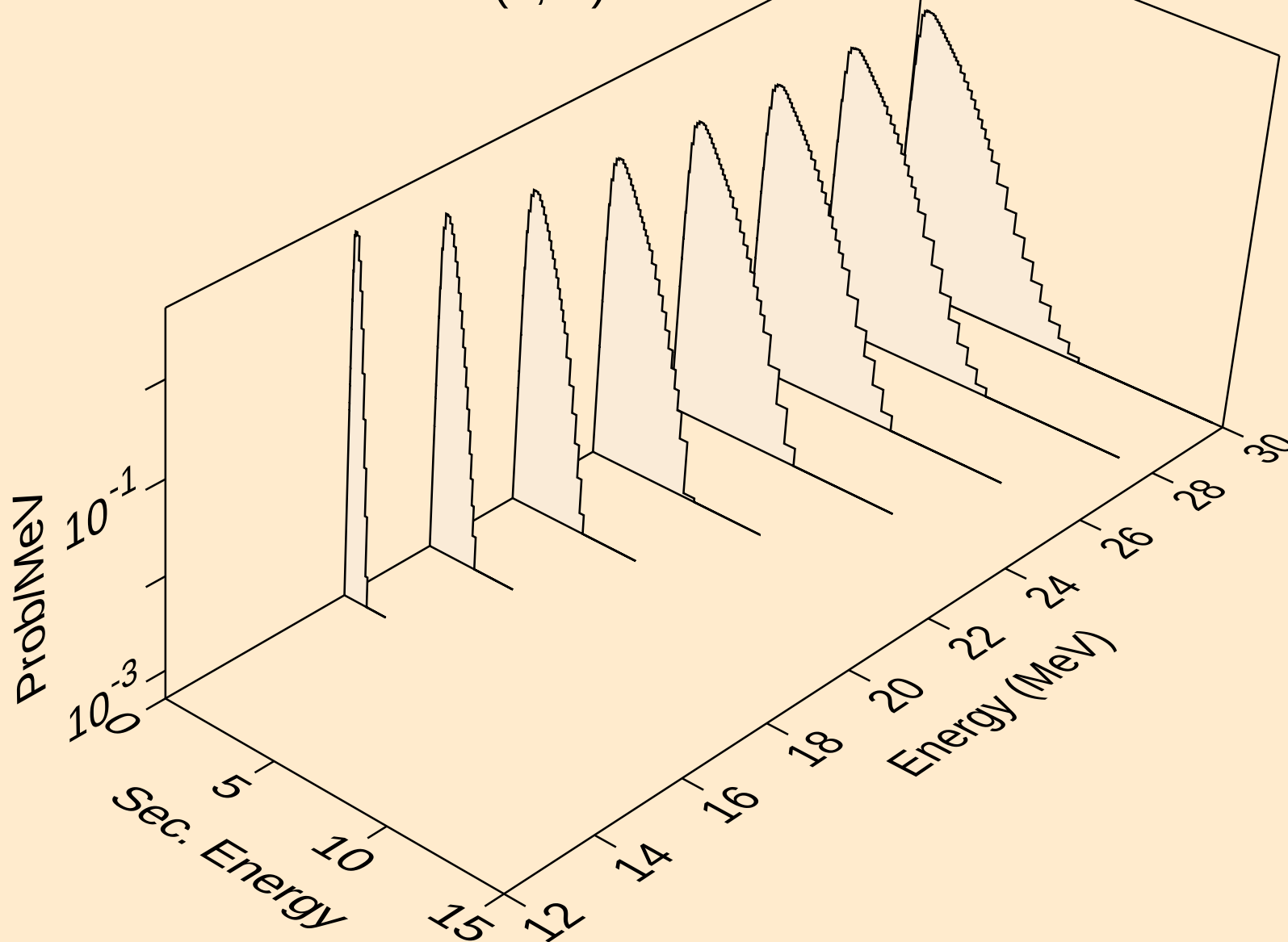
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,n*)2a



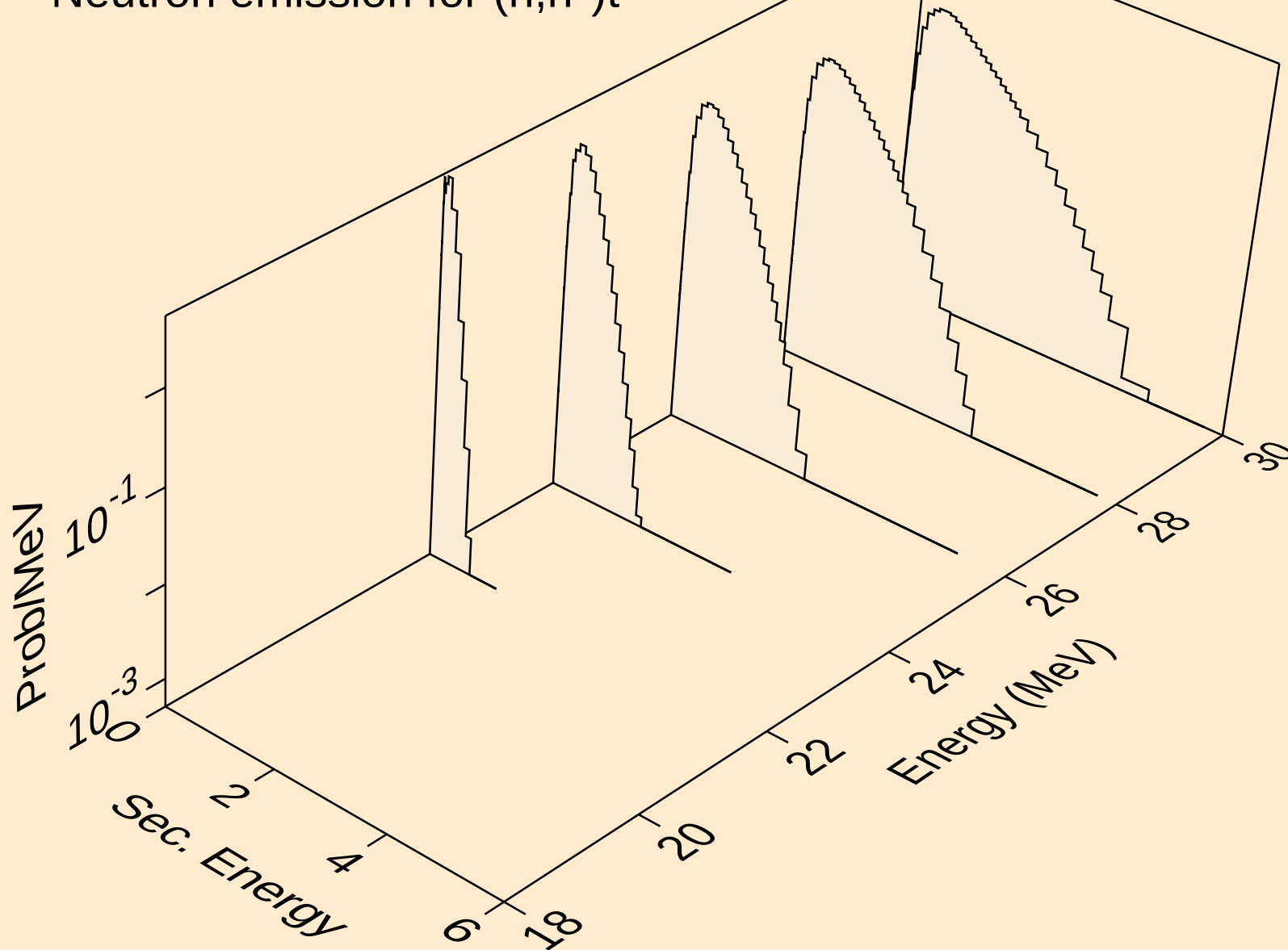
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Neutron emission for (n,n*)d

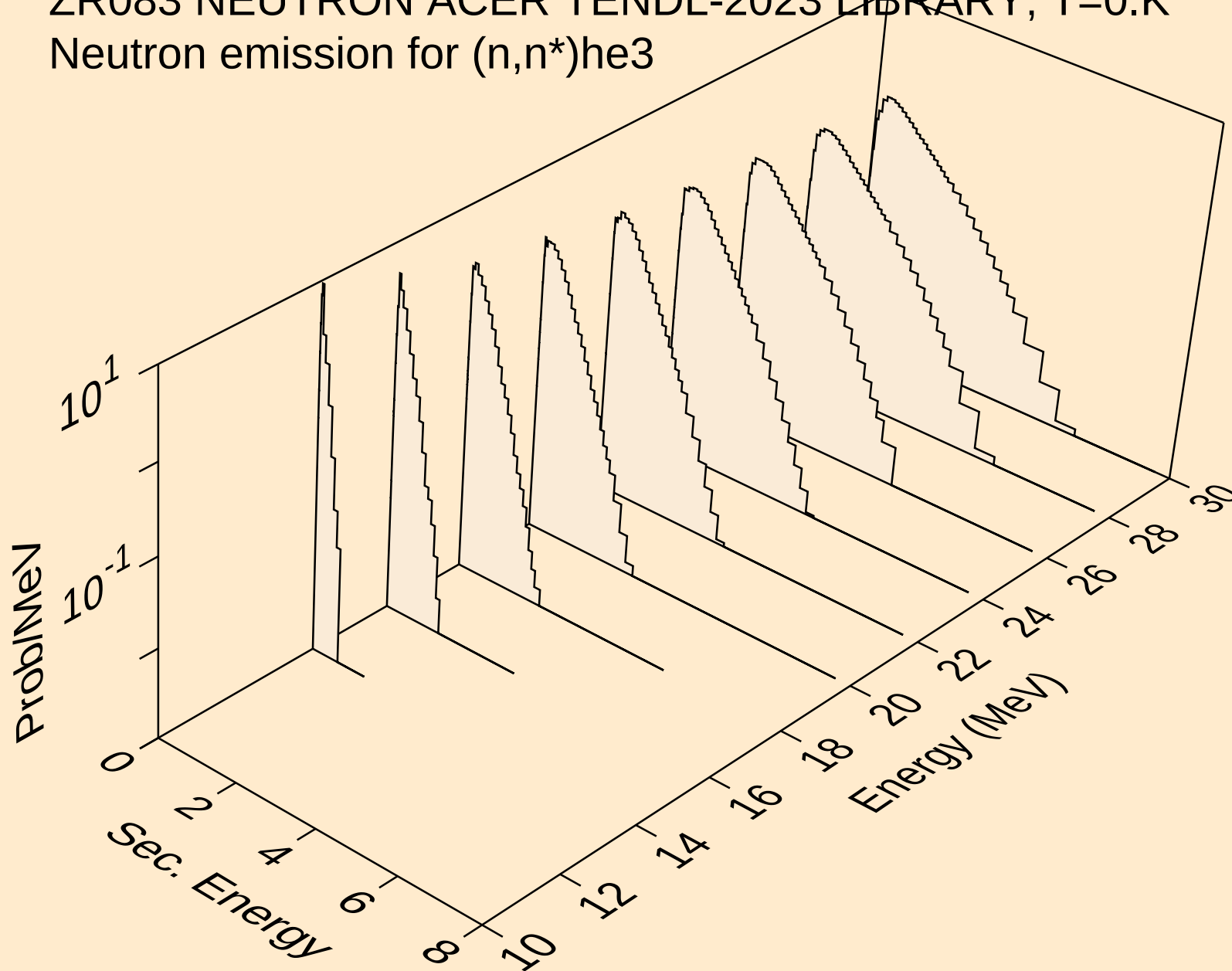


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

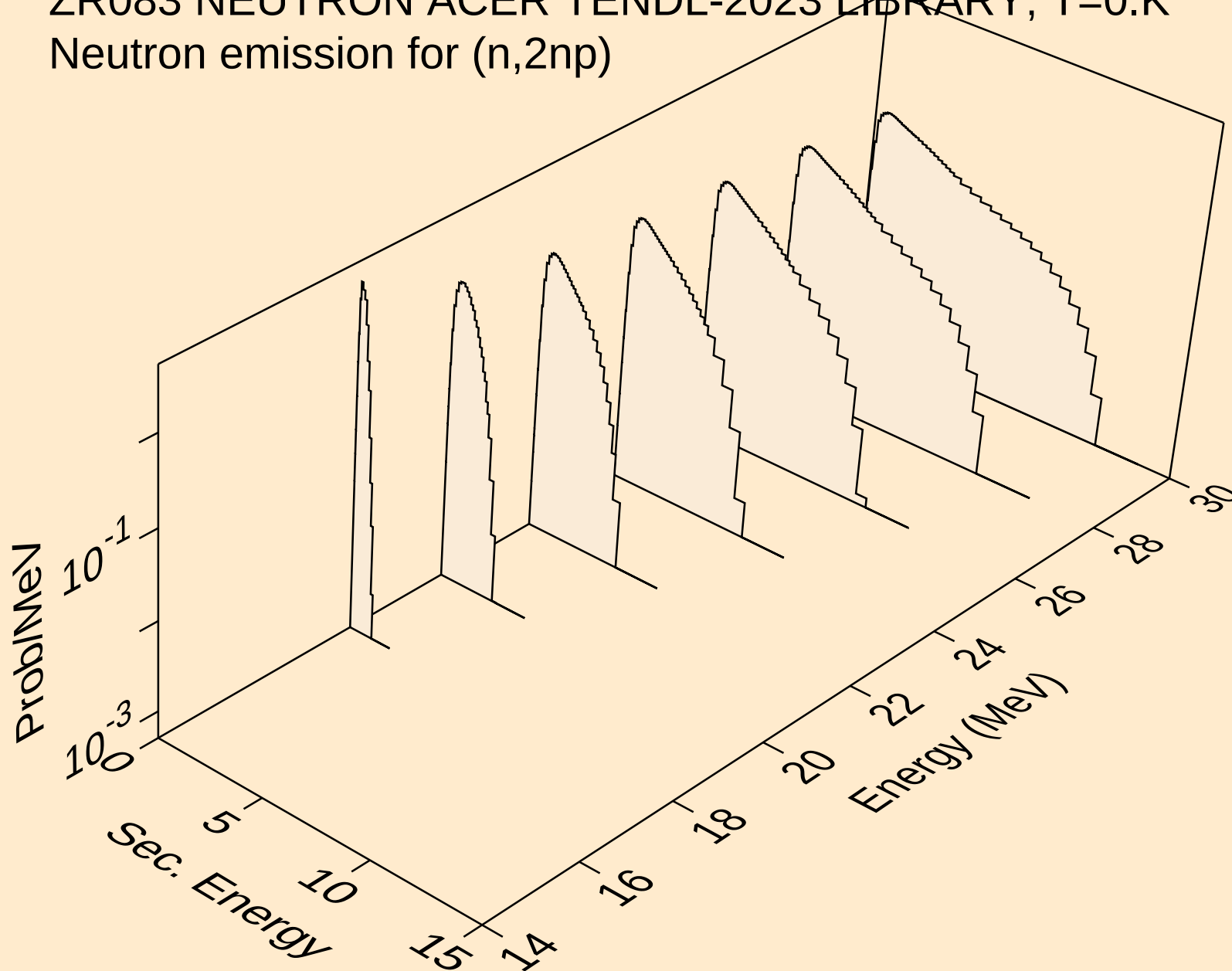
Neutron emission for (n,n*)t



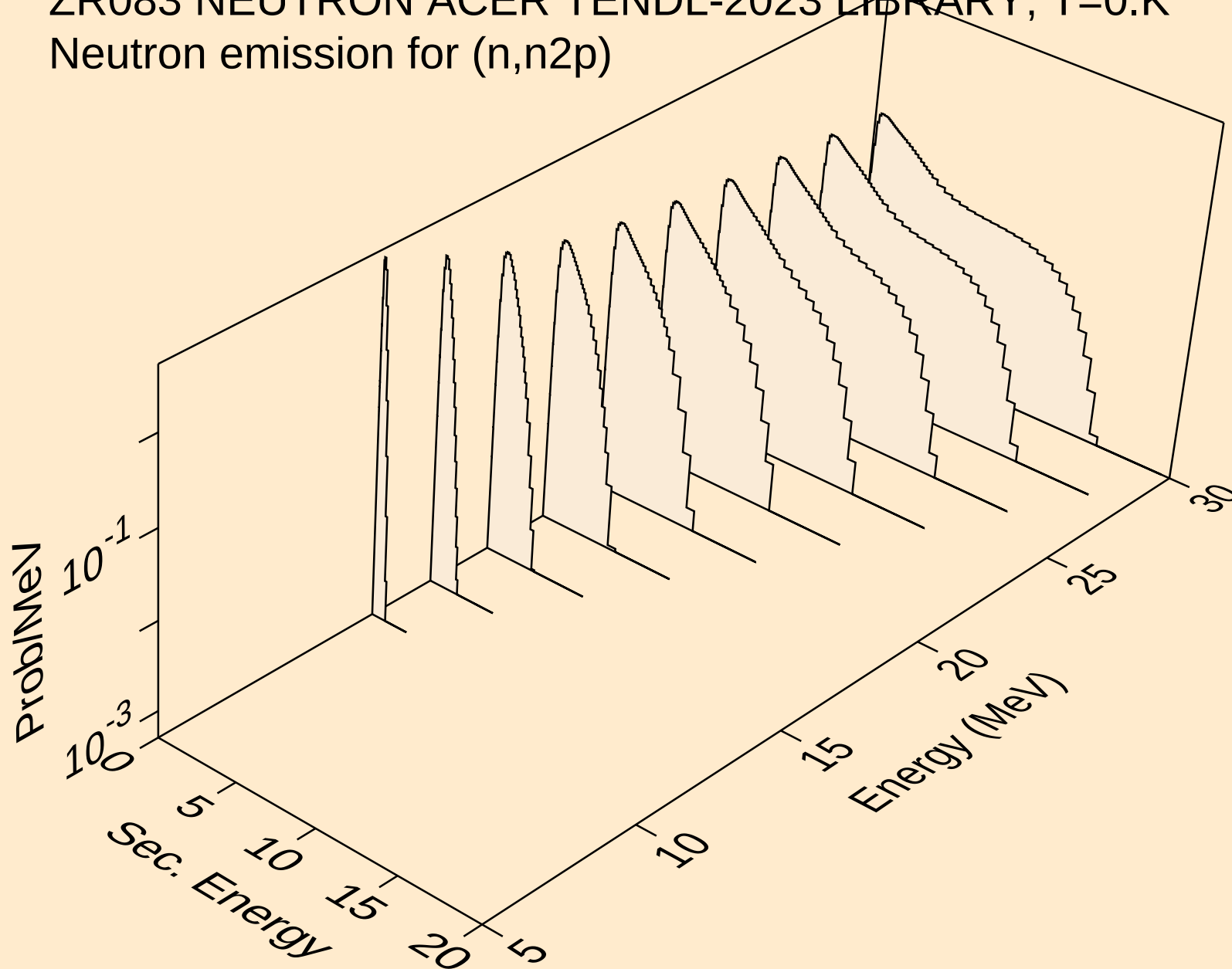
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)he3



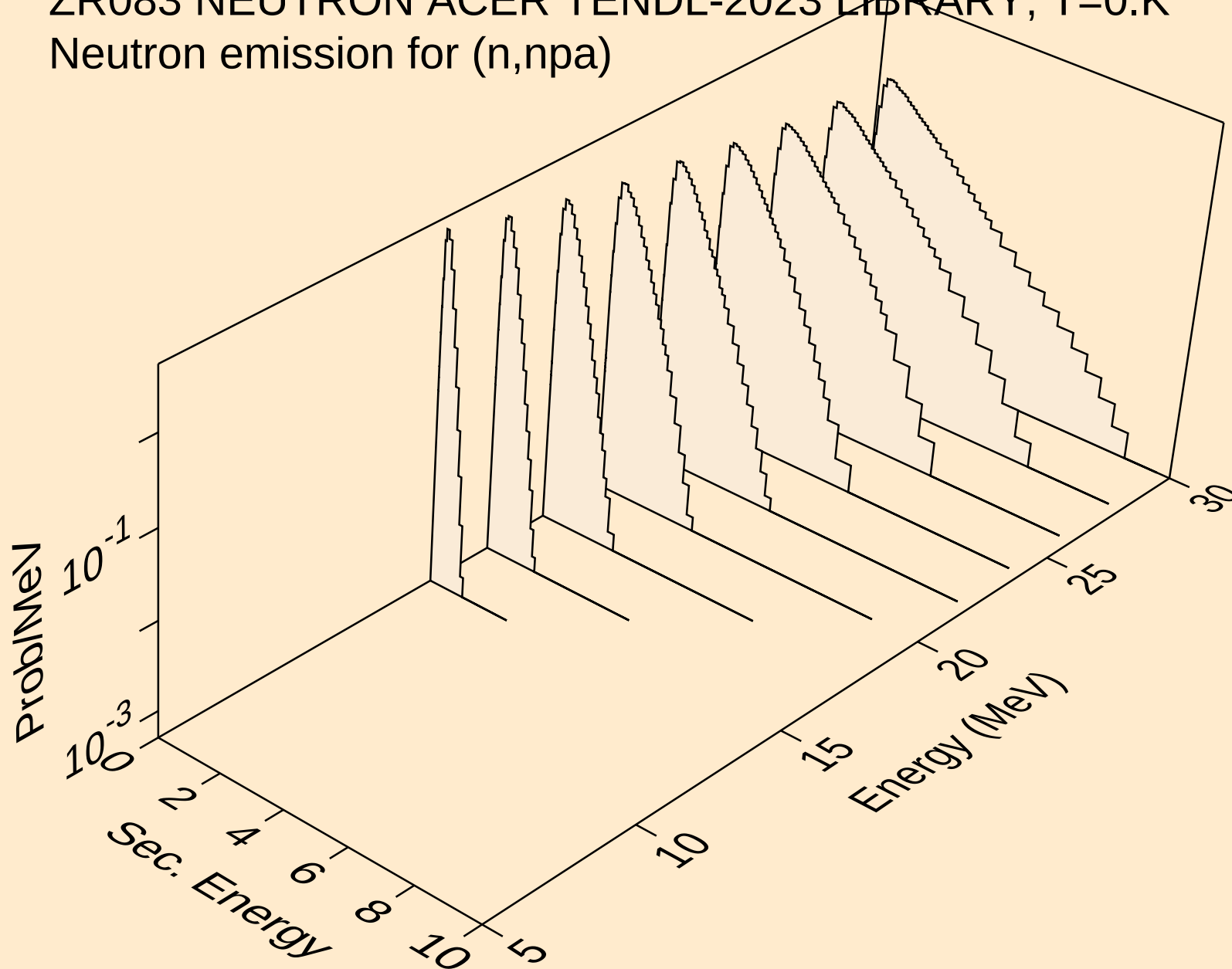
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2np)



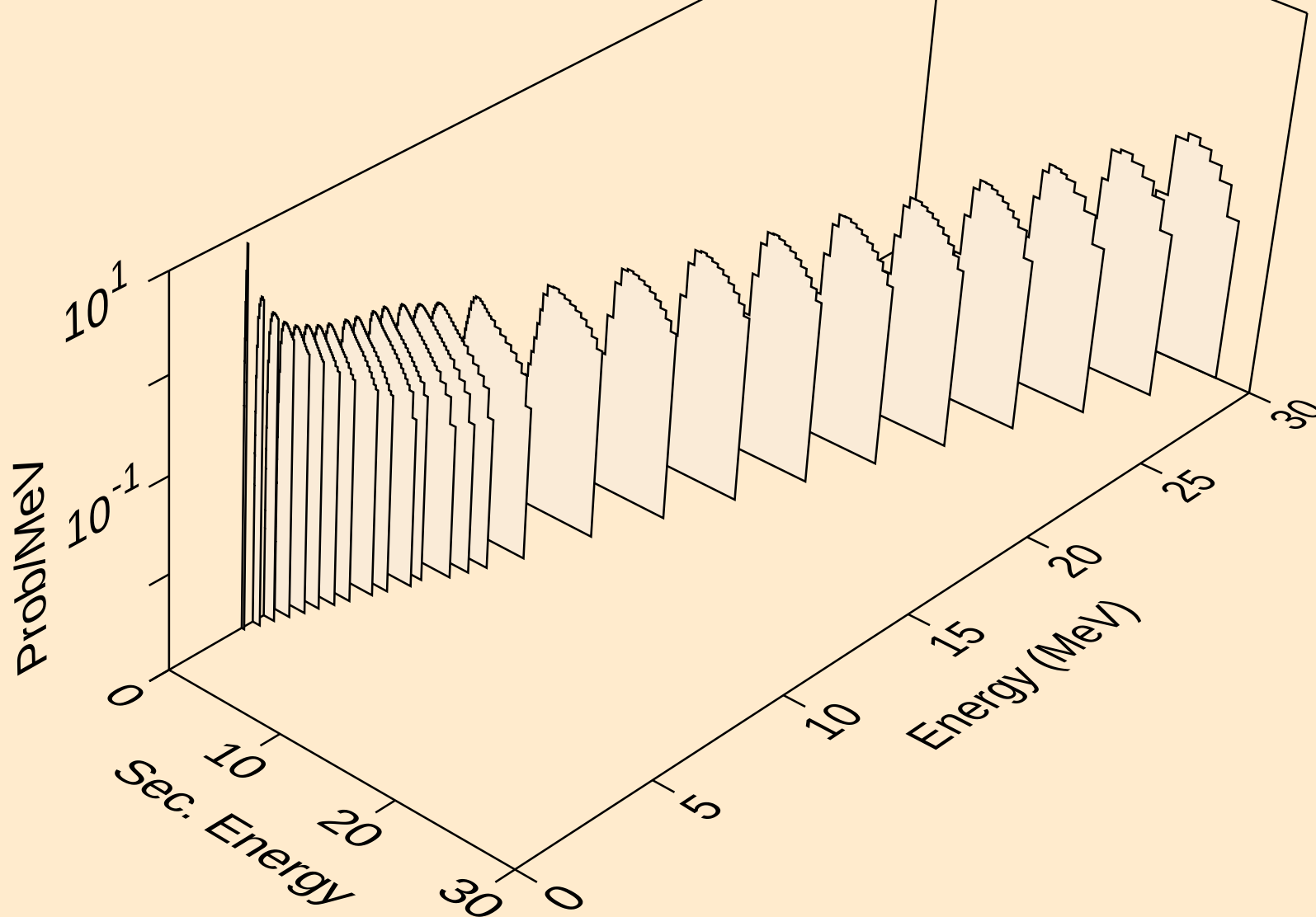
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n2p)



ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,npa)

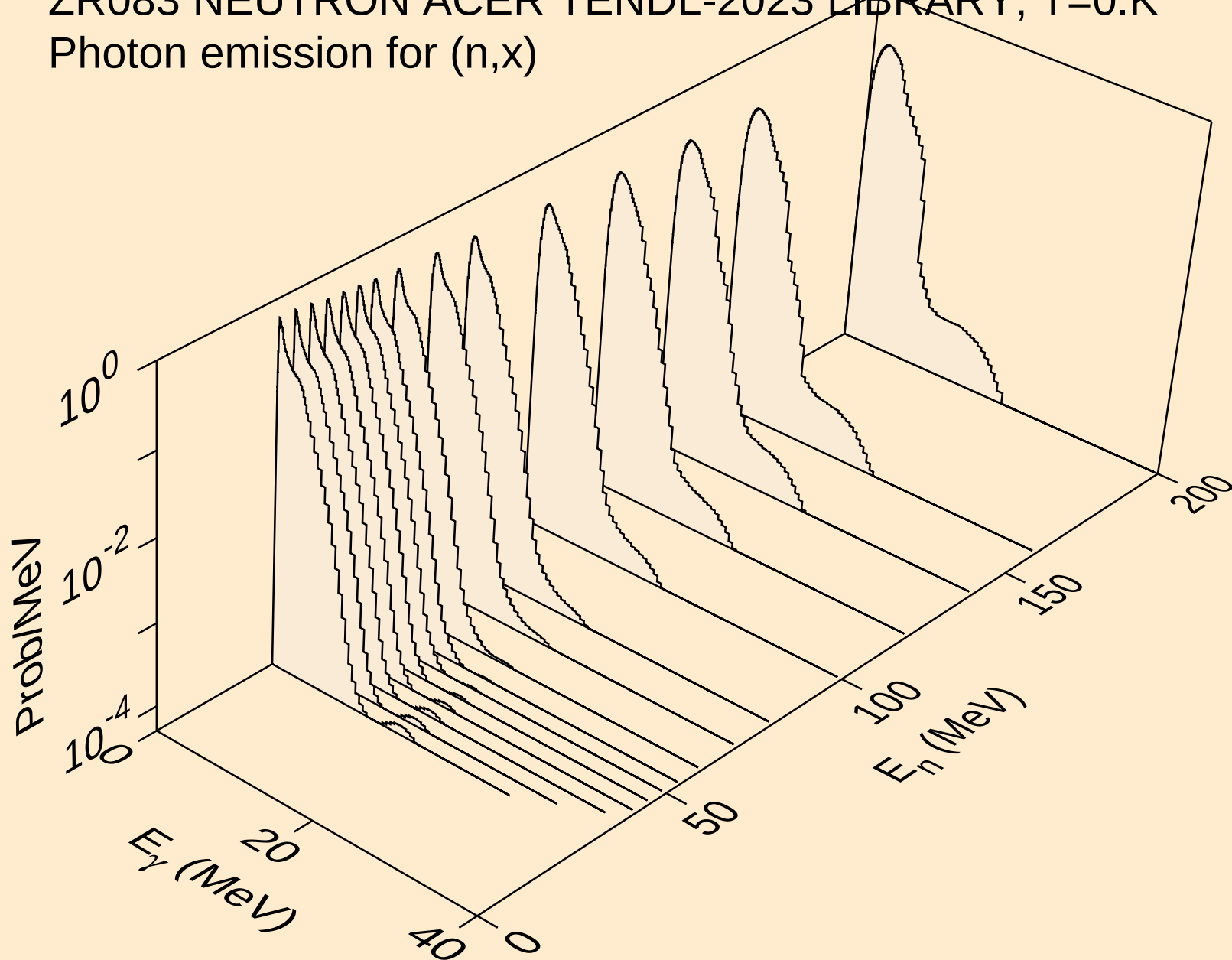


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*c)

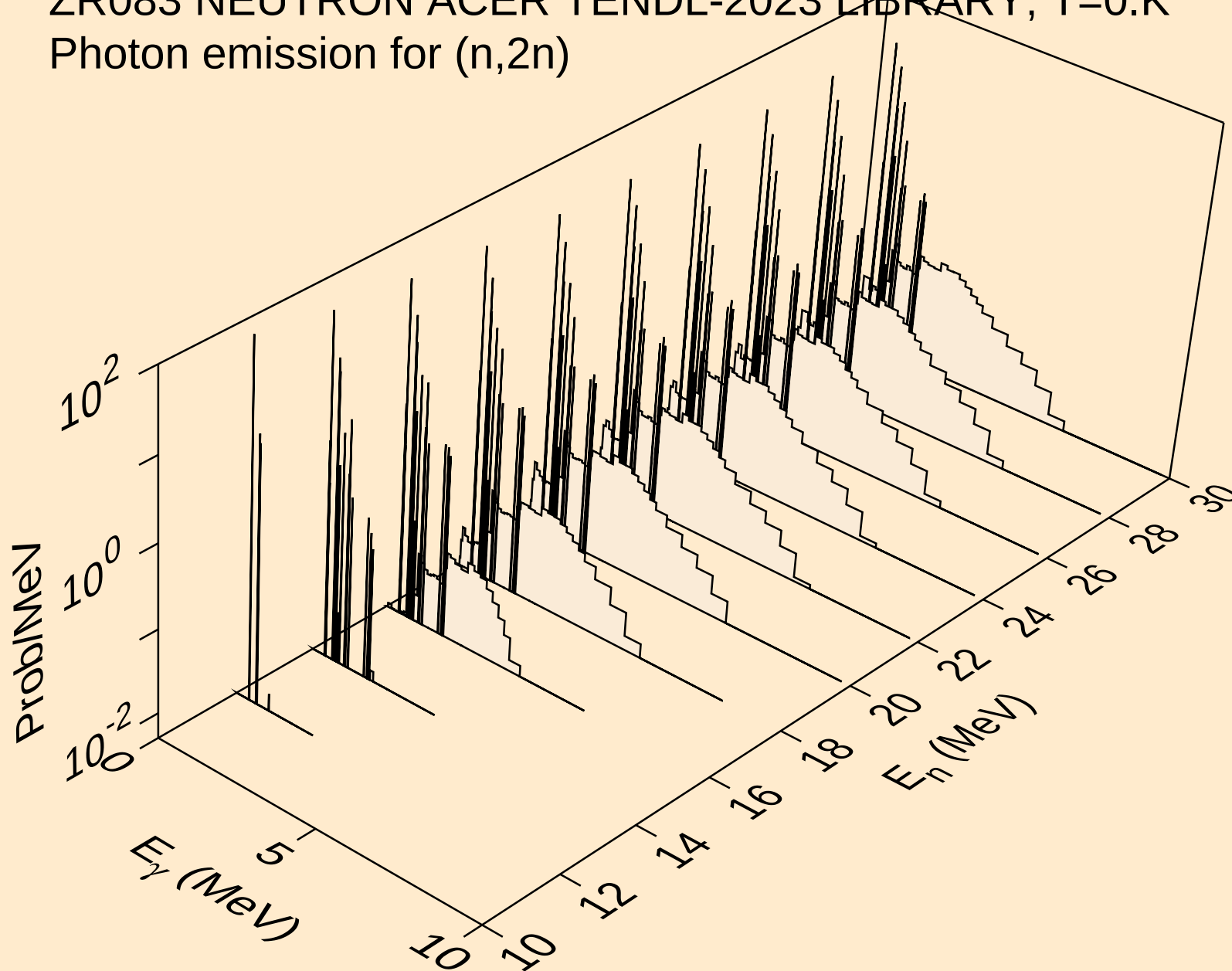


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,x)

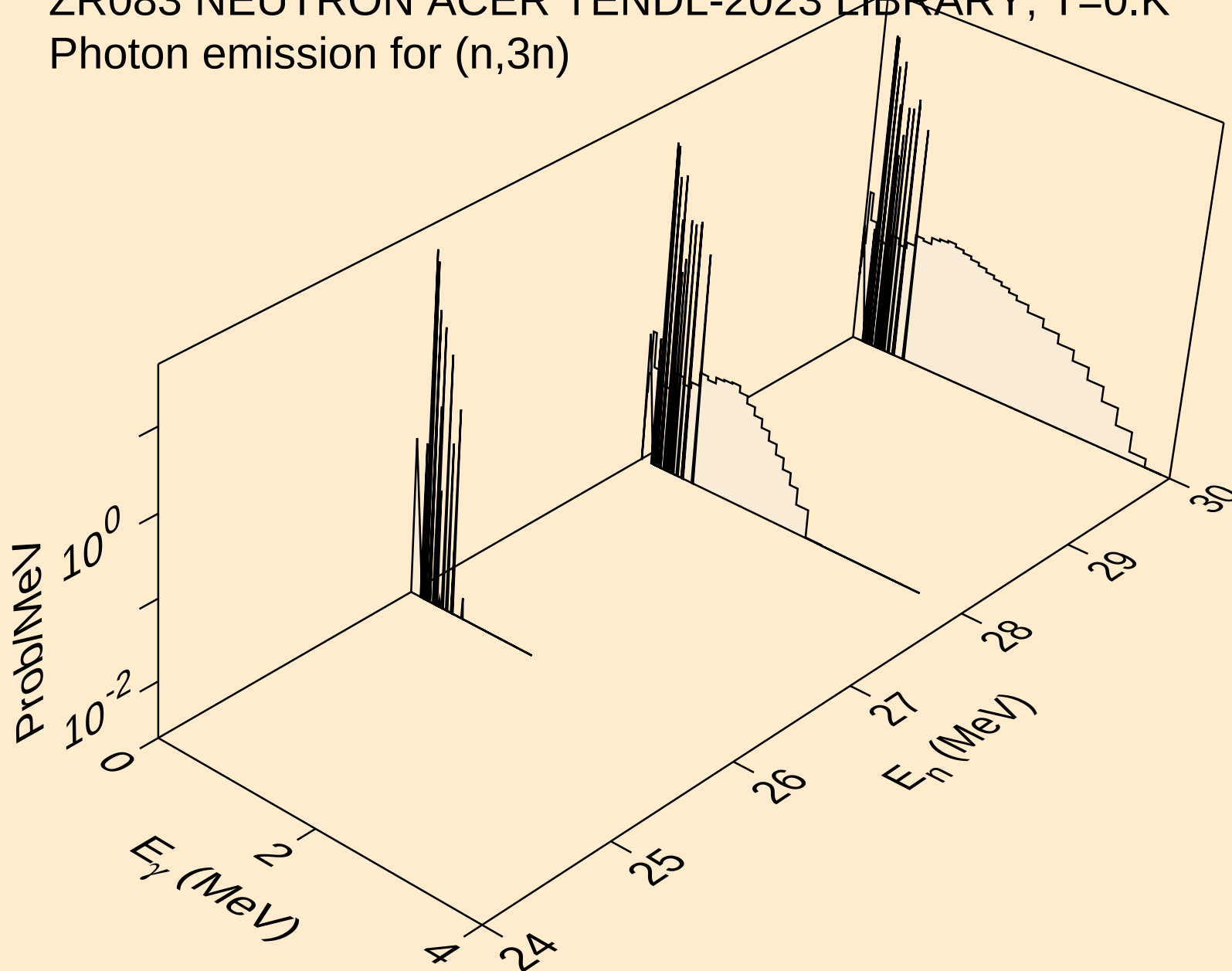


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)



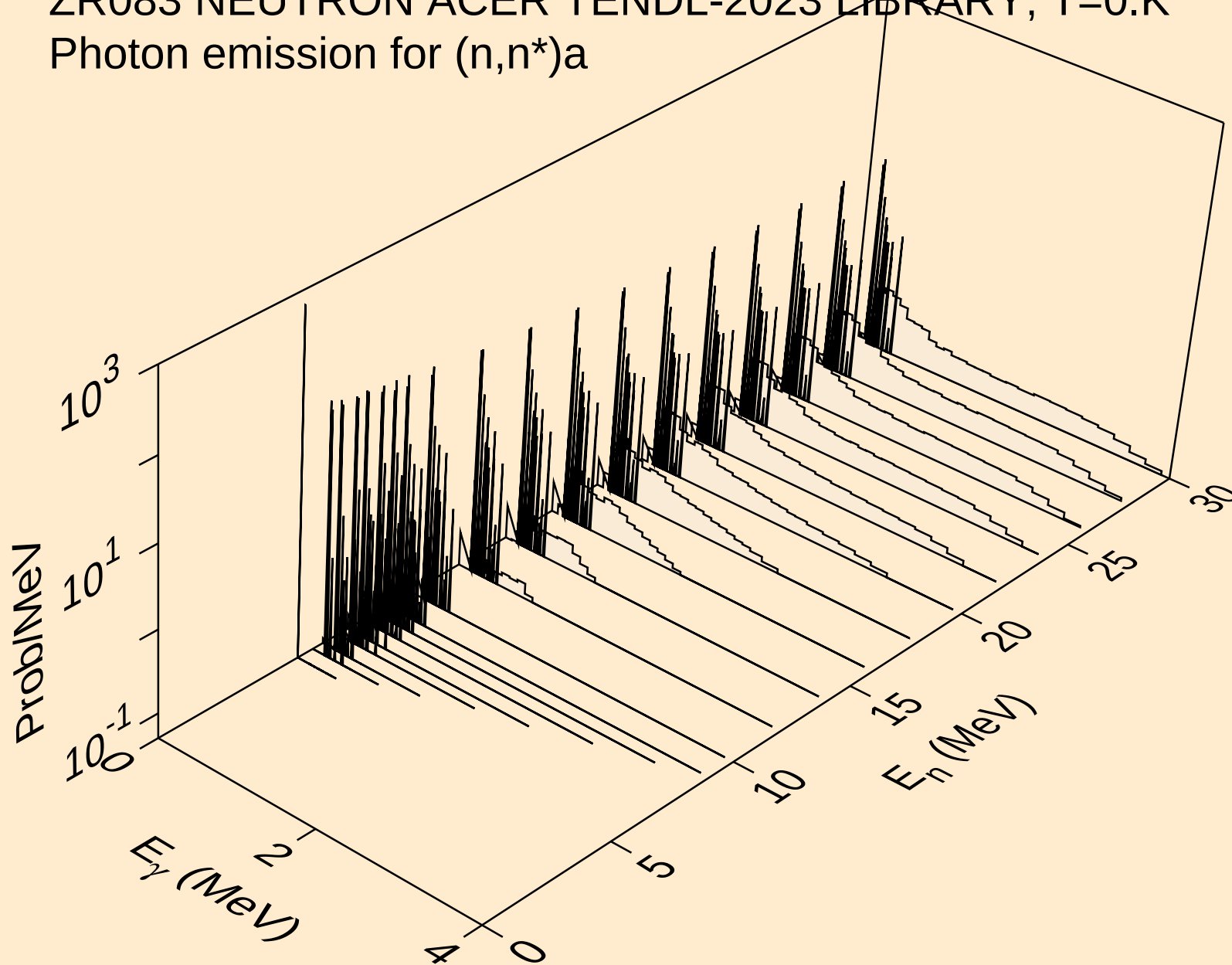
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Photon emission for (n,3n)



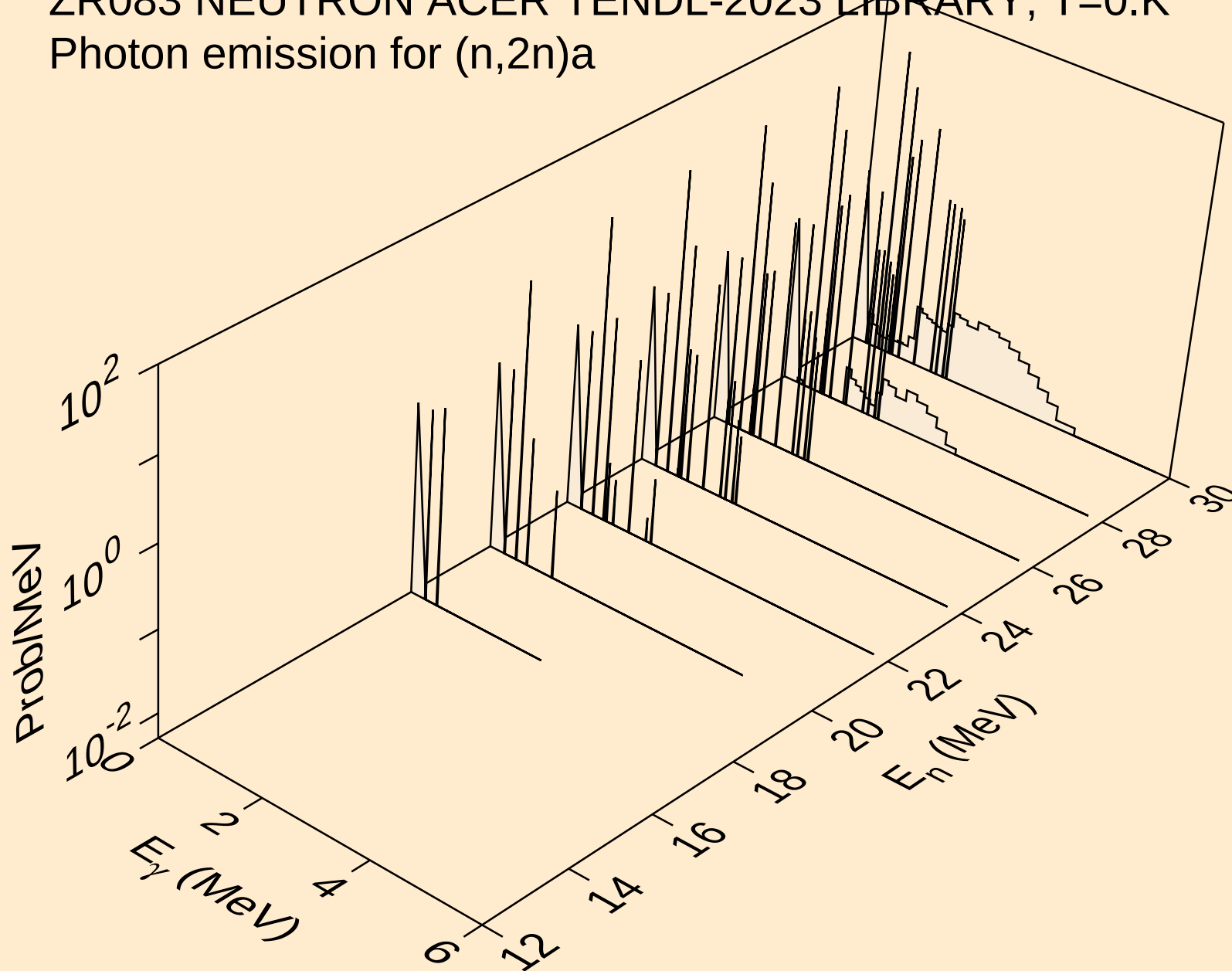
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n*)a



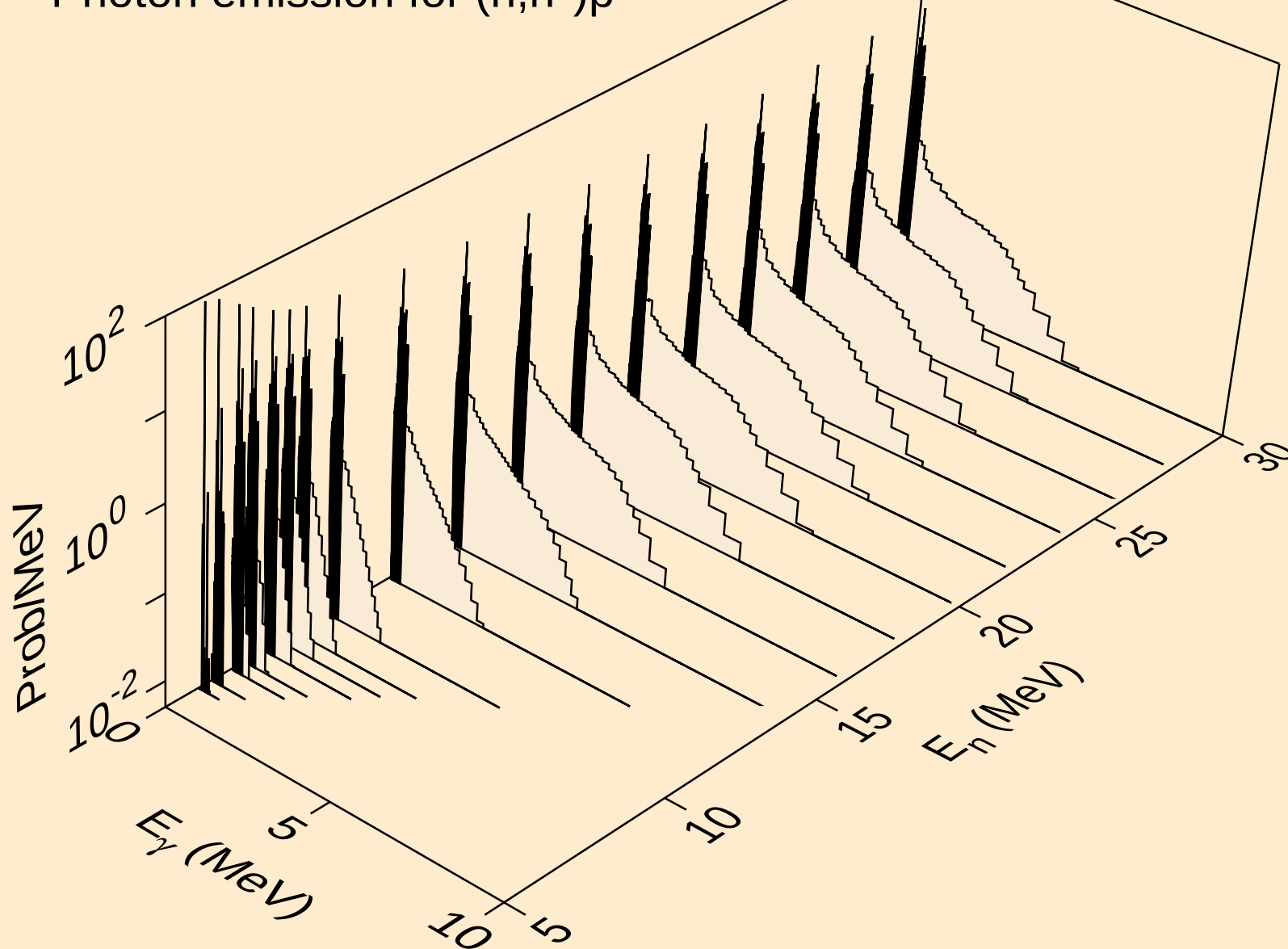
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,2n)a



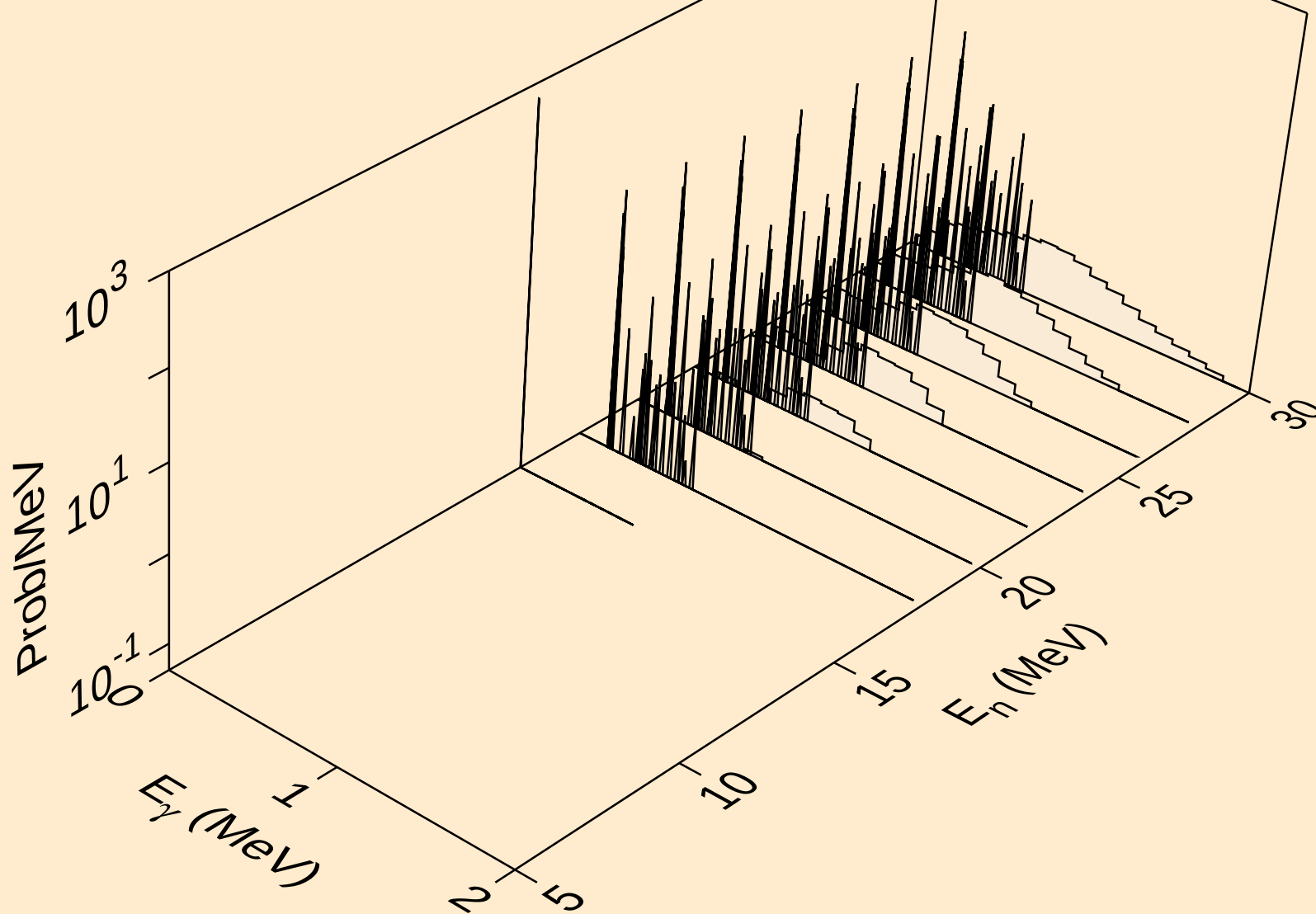
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Photon emission for (n,n*)p



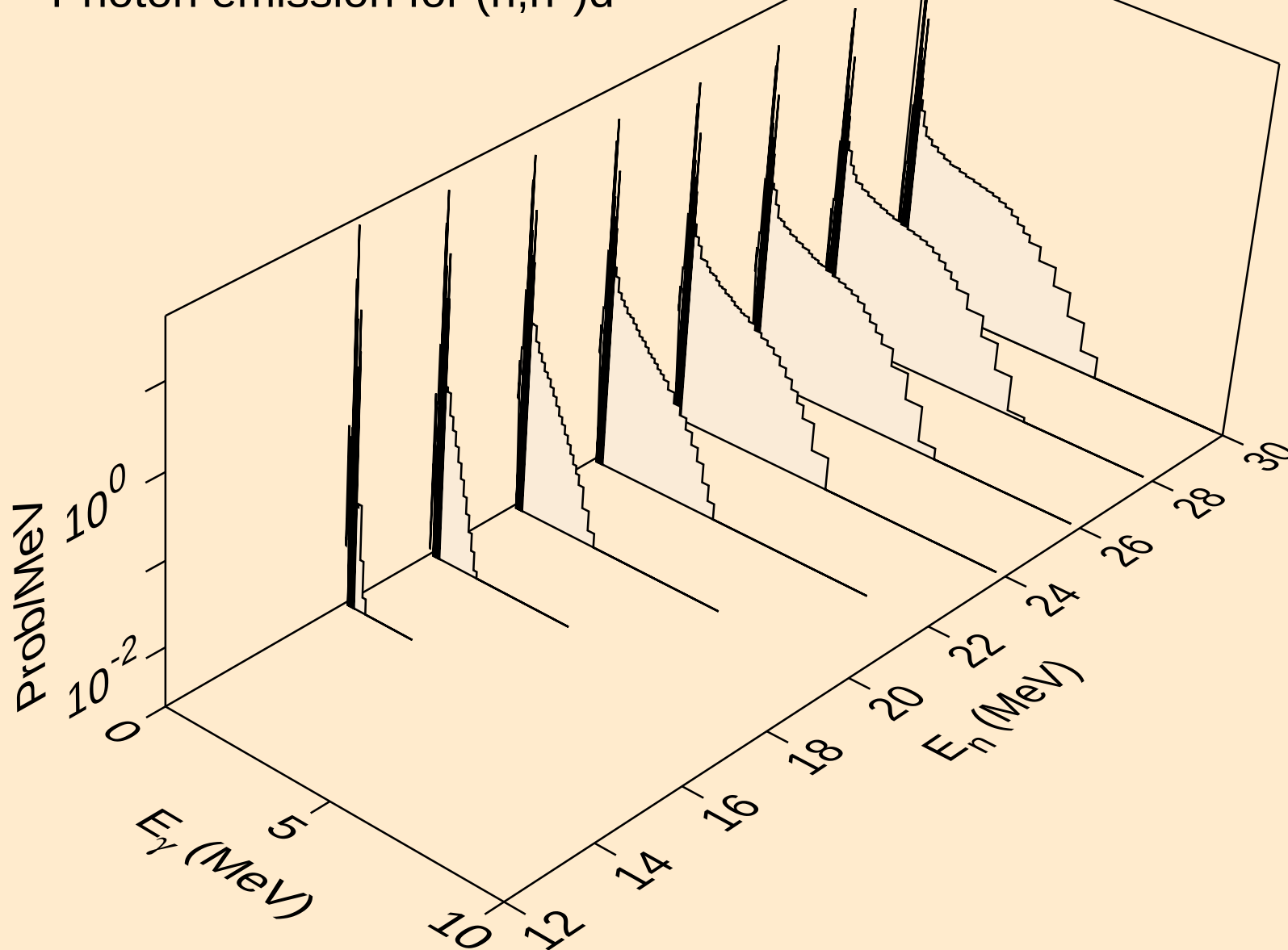
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Photon emission for (n,n*)2a



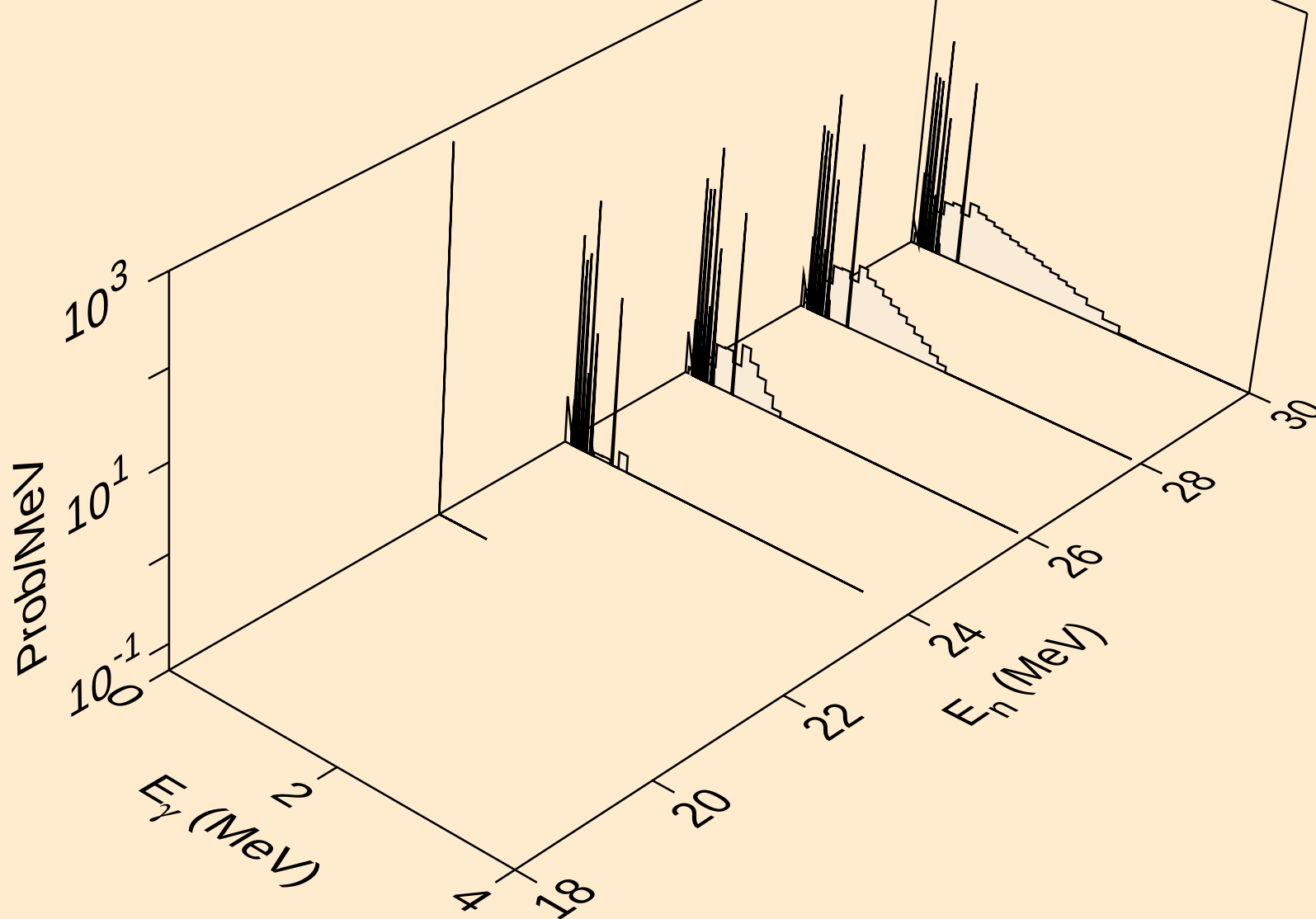
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Photon emission for (n,n*)d



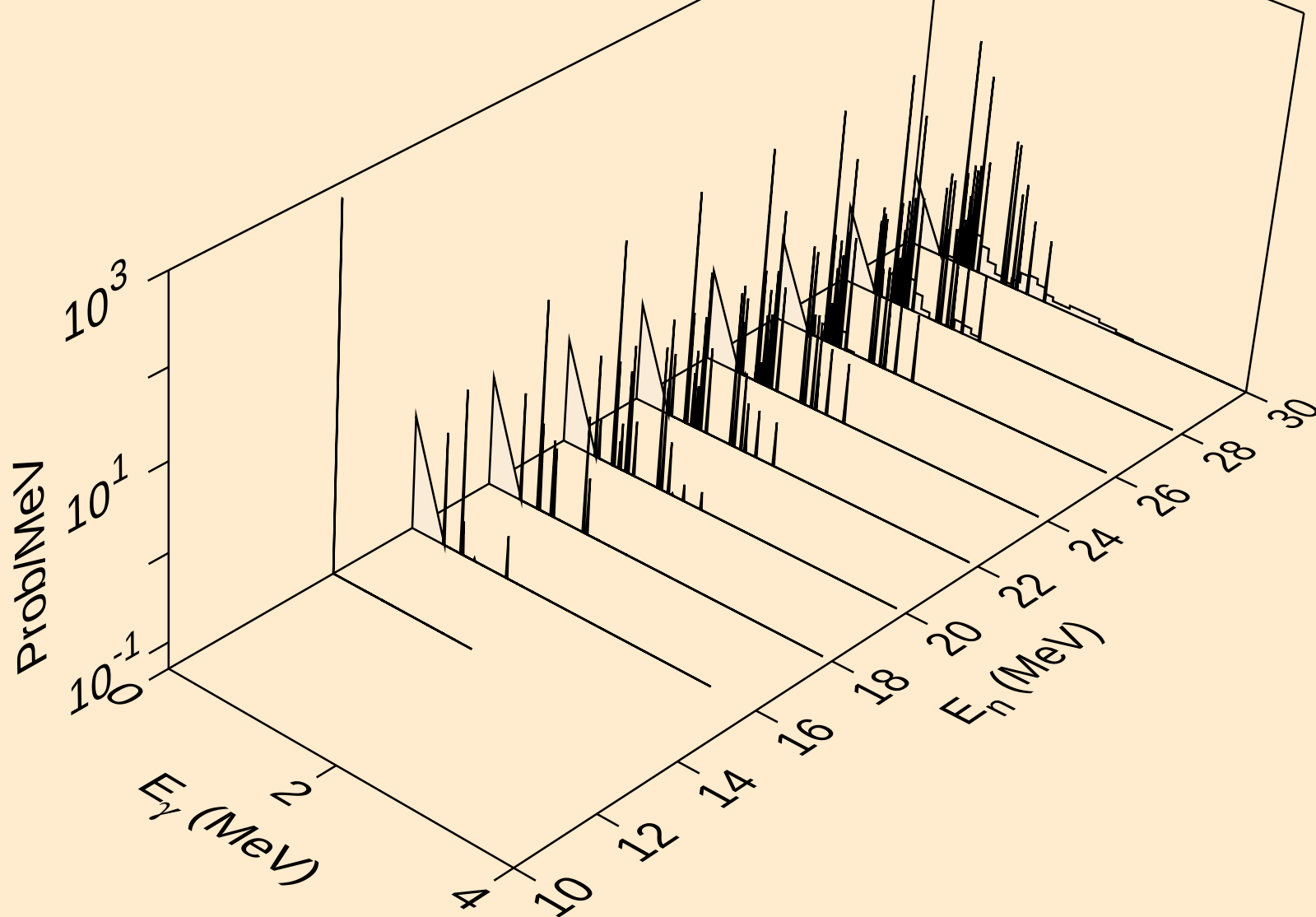
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Photon emission for (n,n*)t

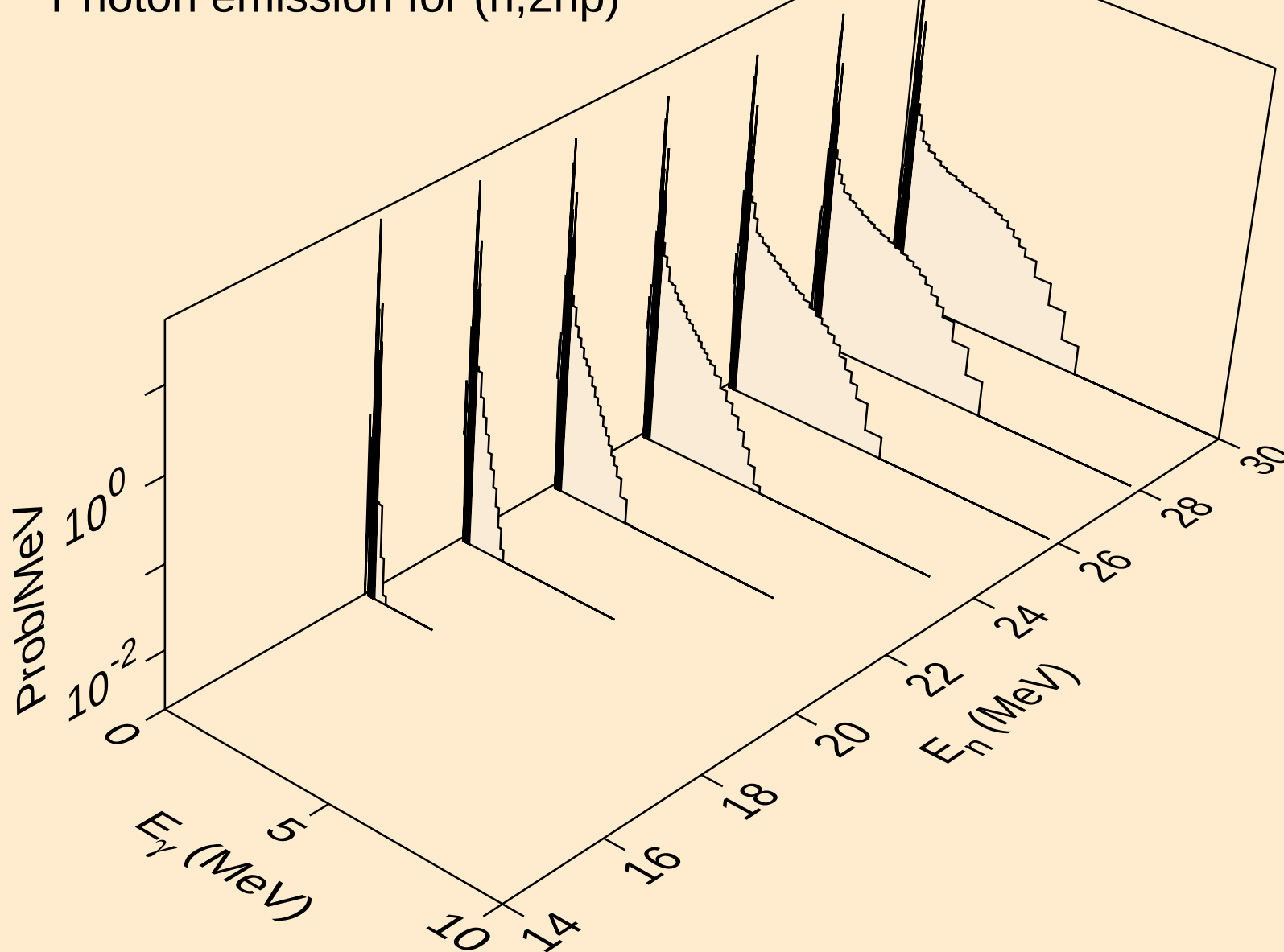


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n*)he3

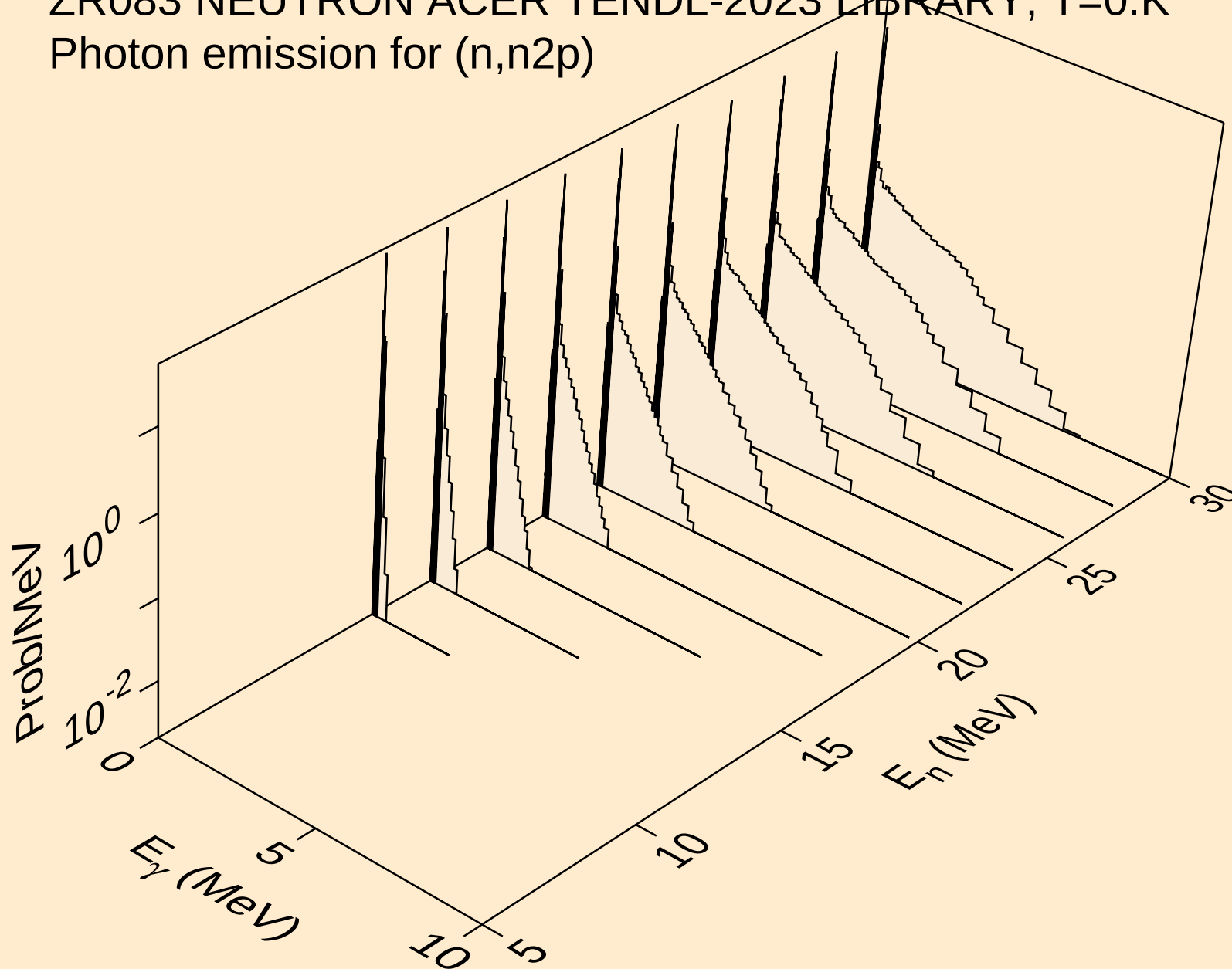


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)



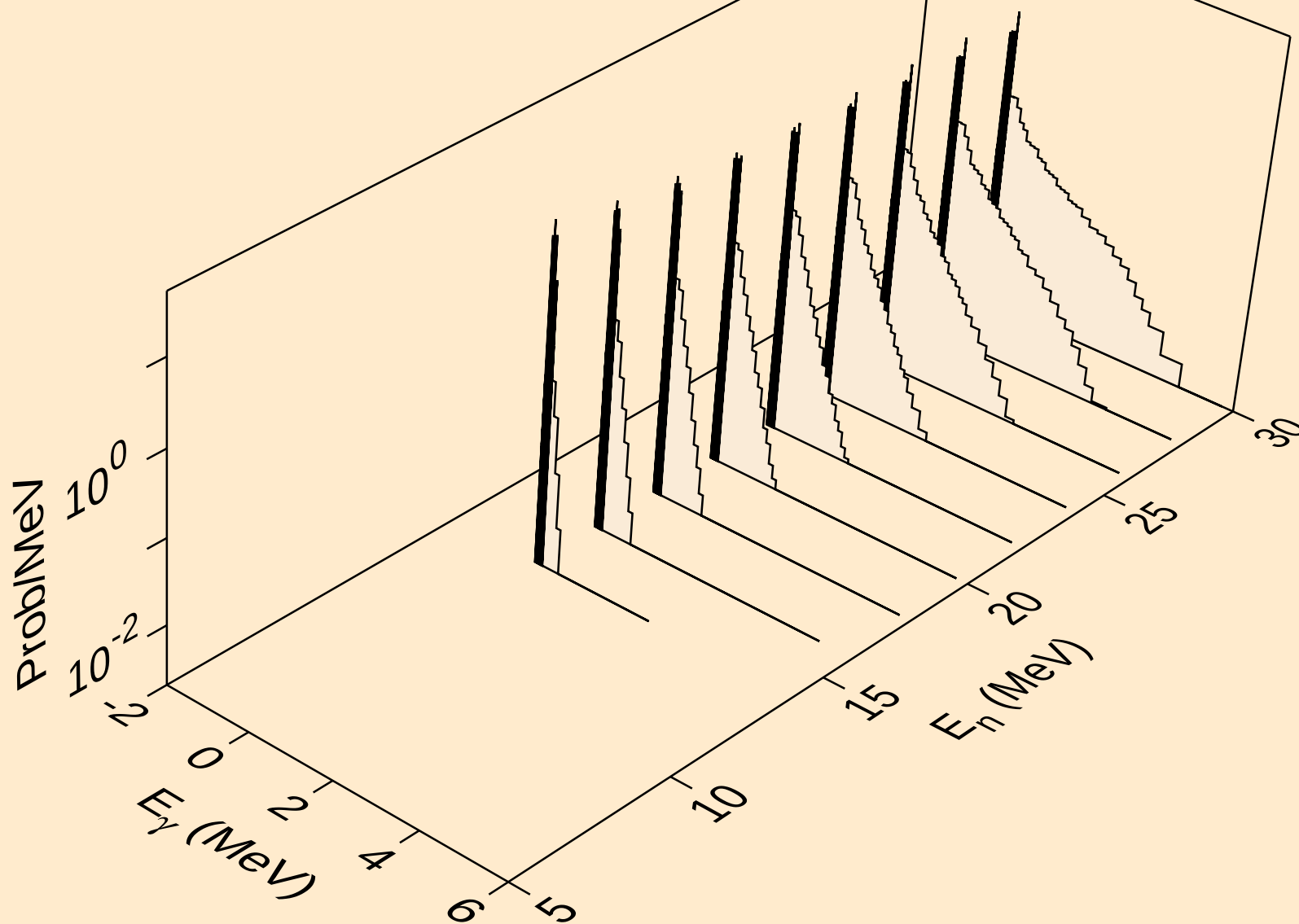
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Photon emission for (n,n2p)

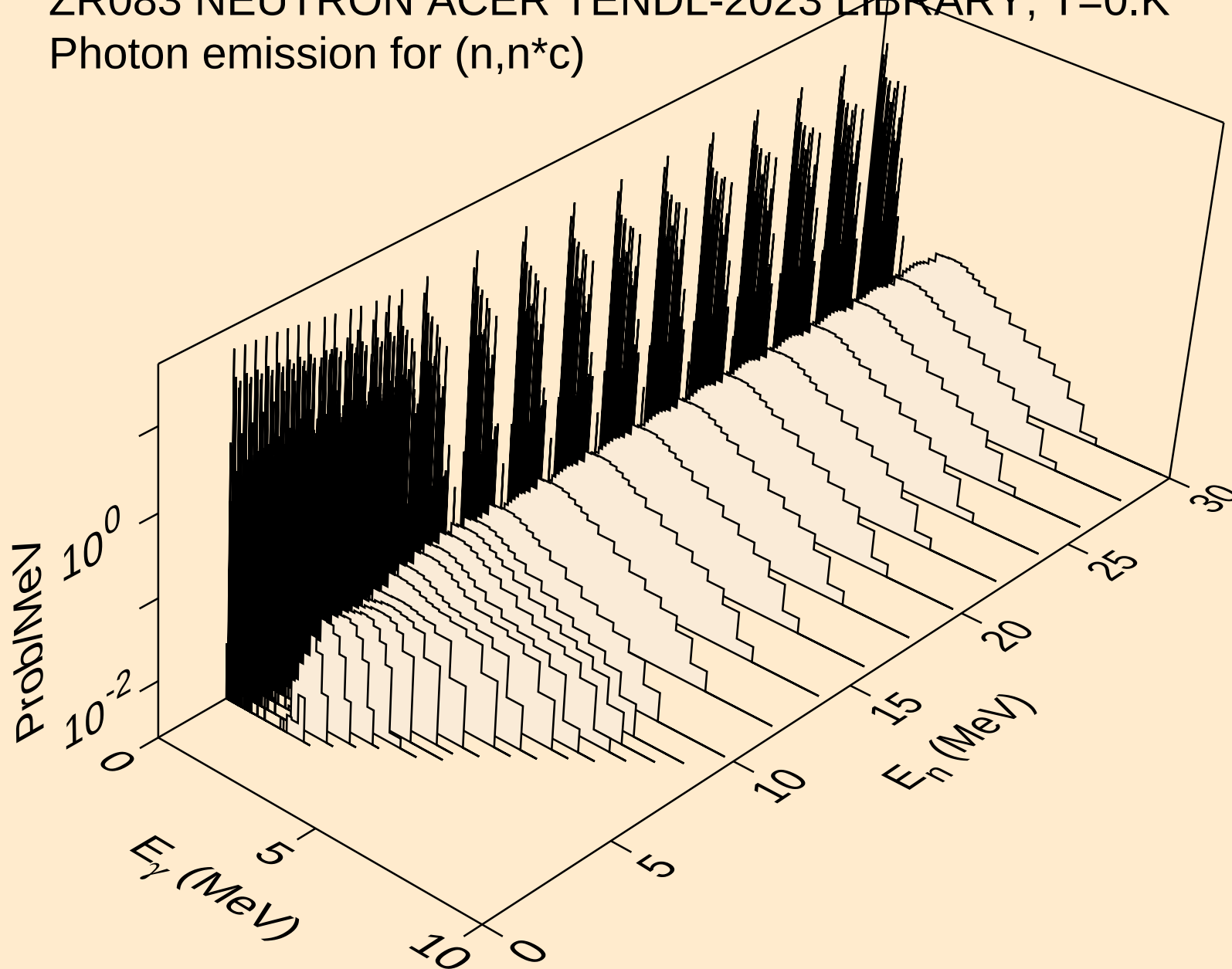


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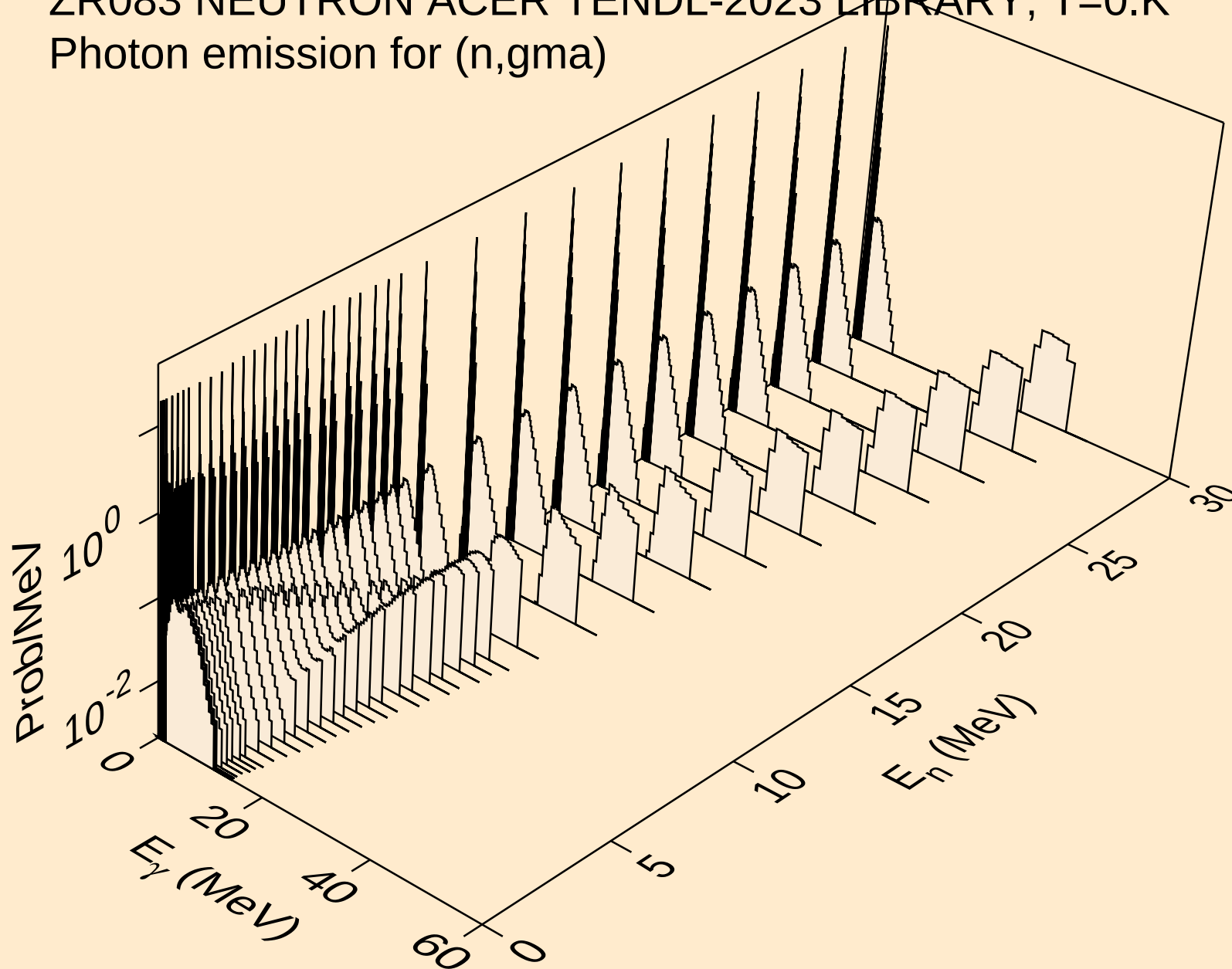
Photon emission for (n,npa)



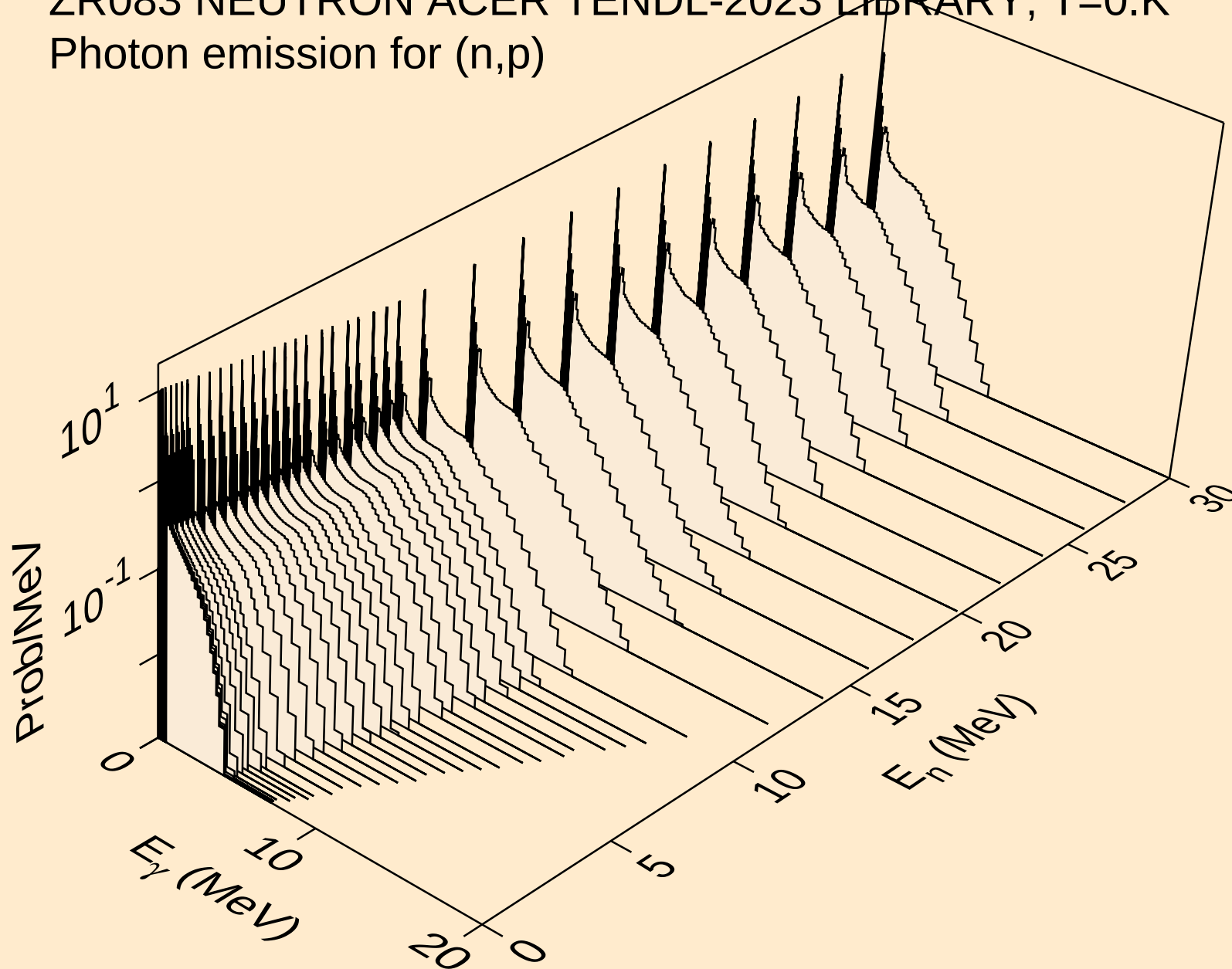
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Photon emission for (n,n*c)



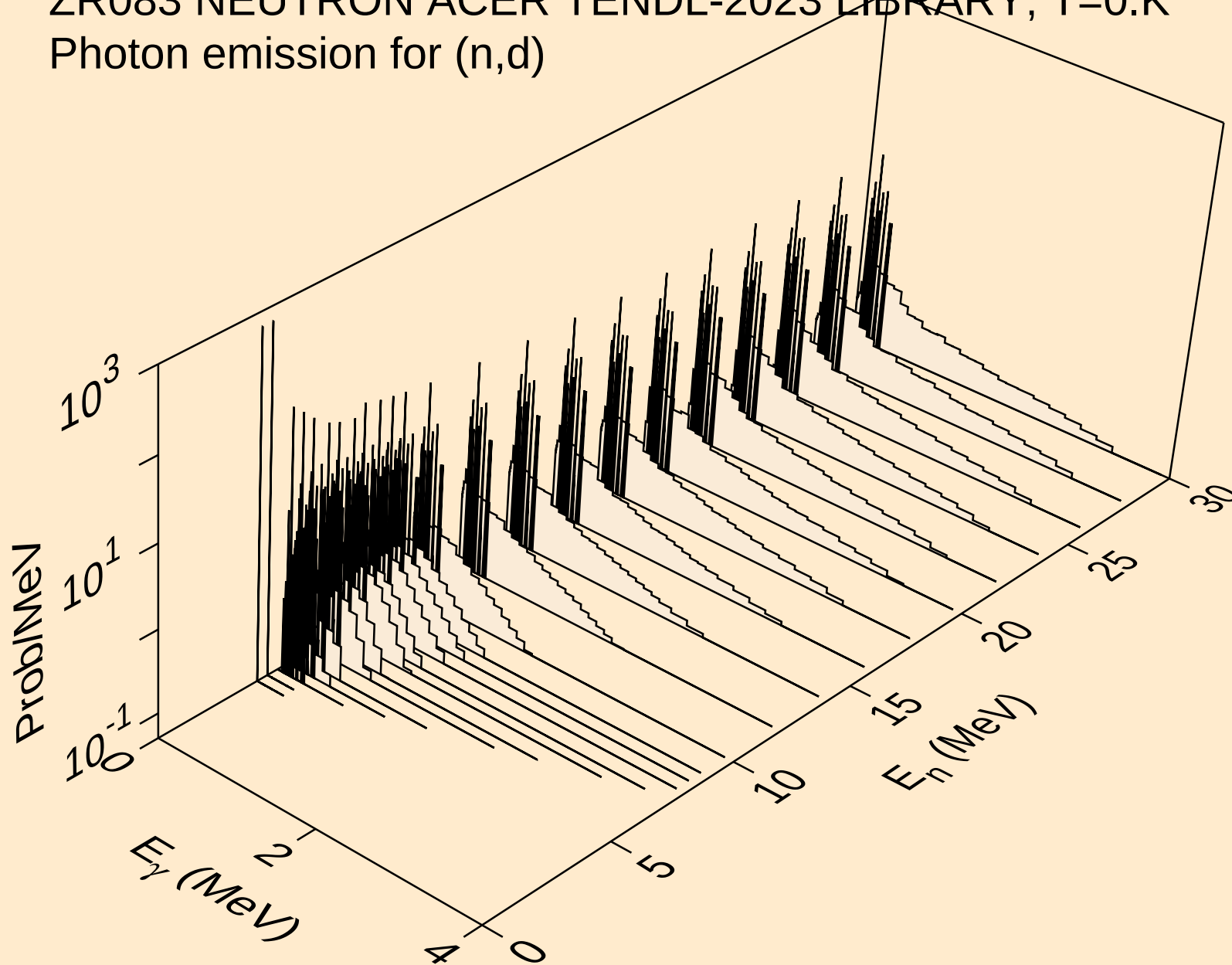
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Photon emission for (n,gma)



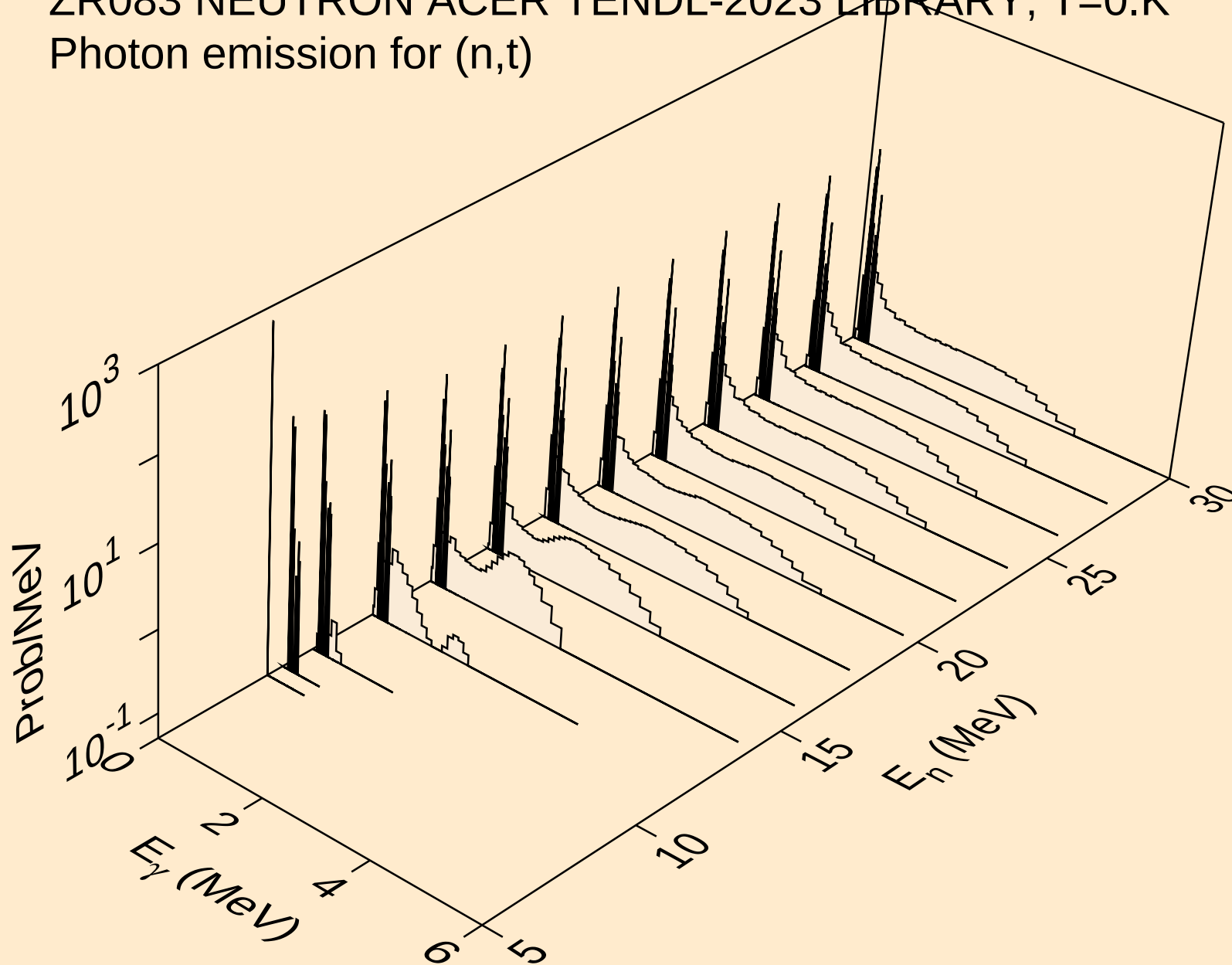
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Photon emission for (n,p)



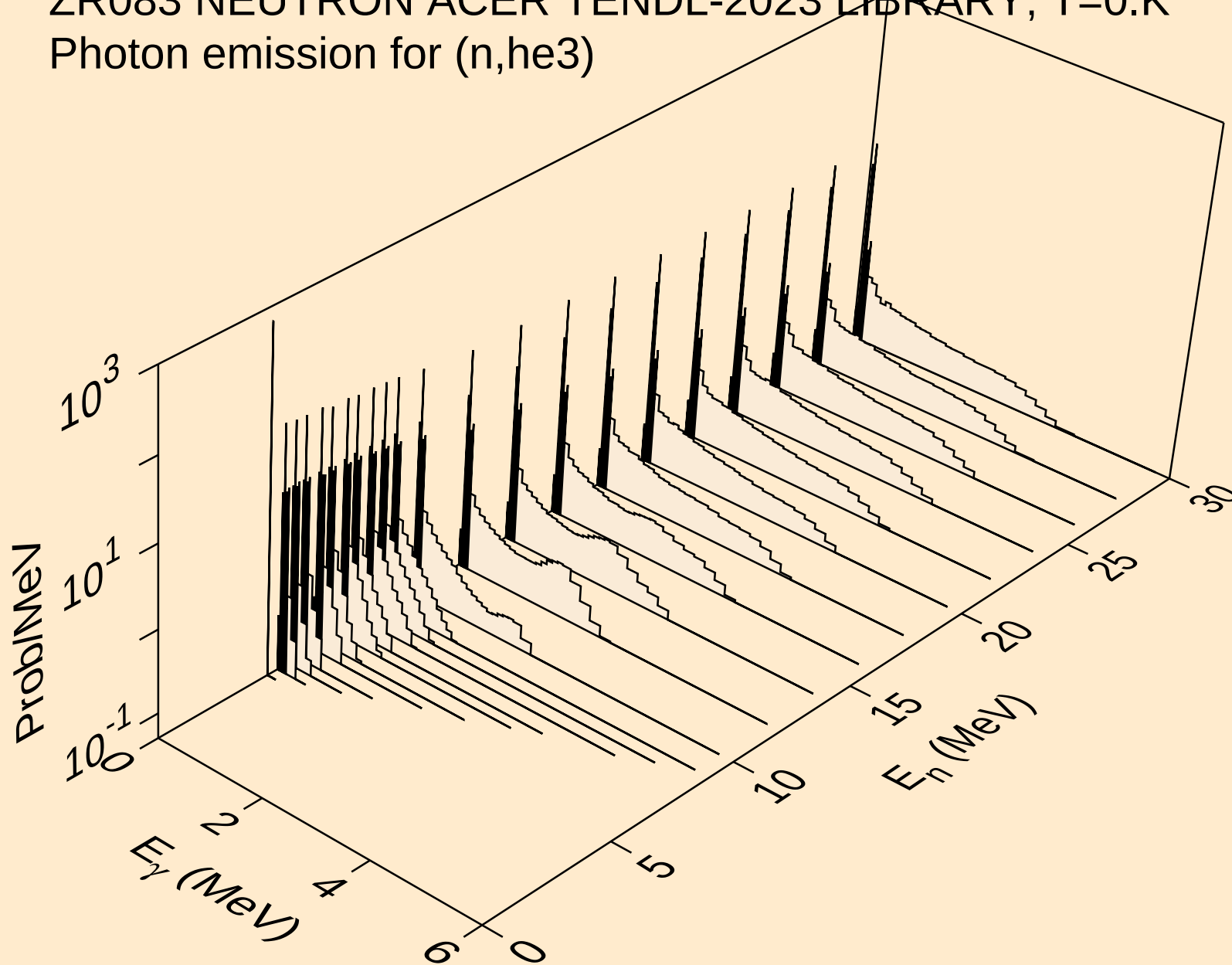
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Photon emission for (n,d)



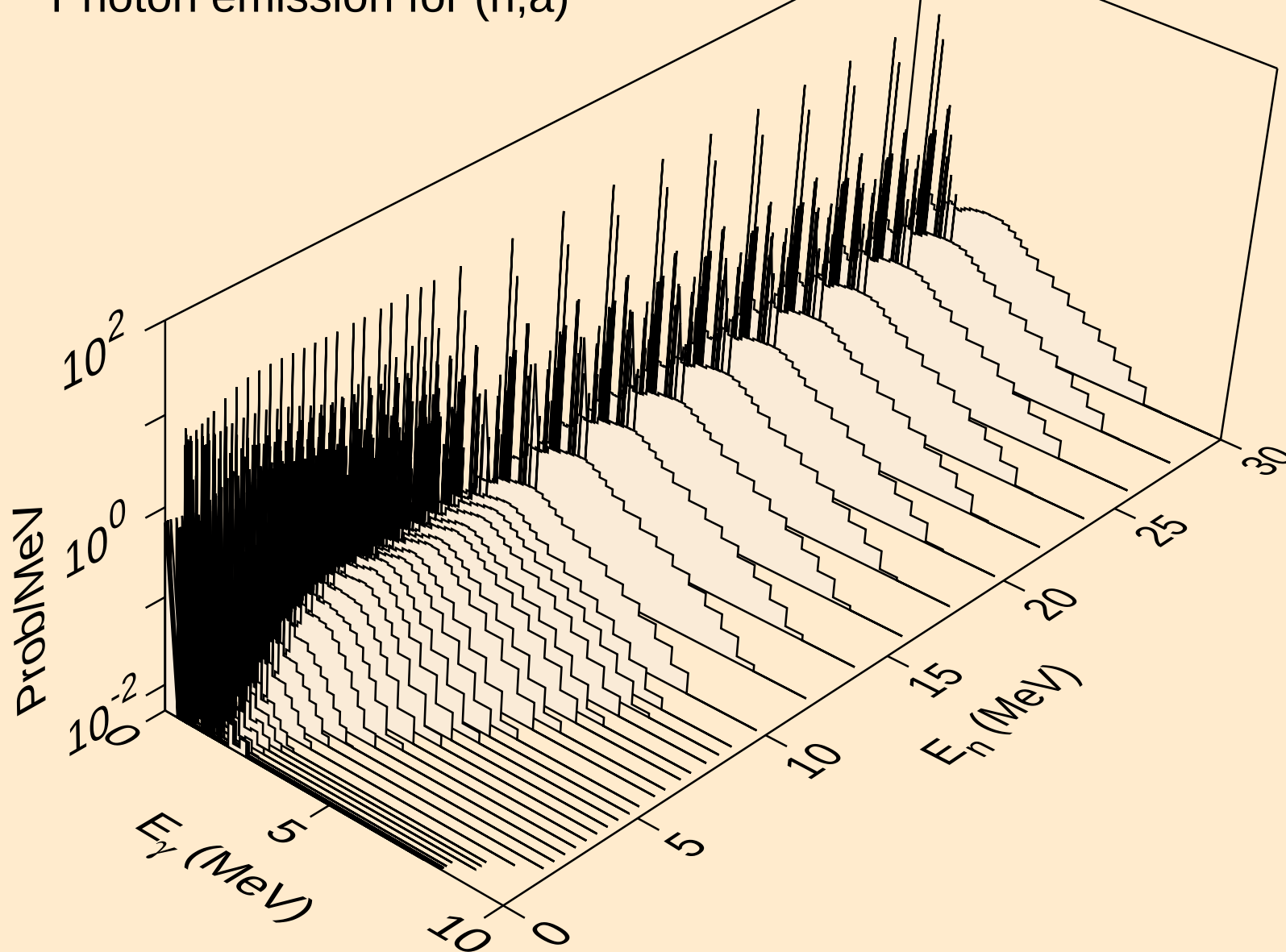
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)



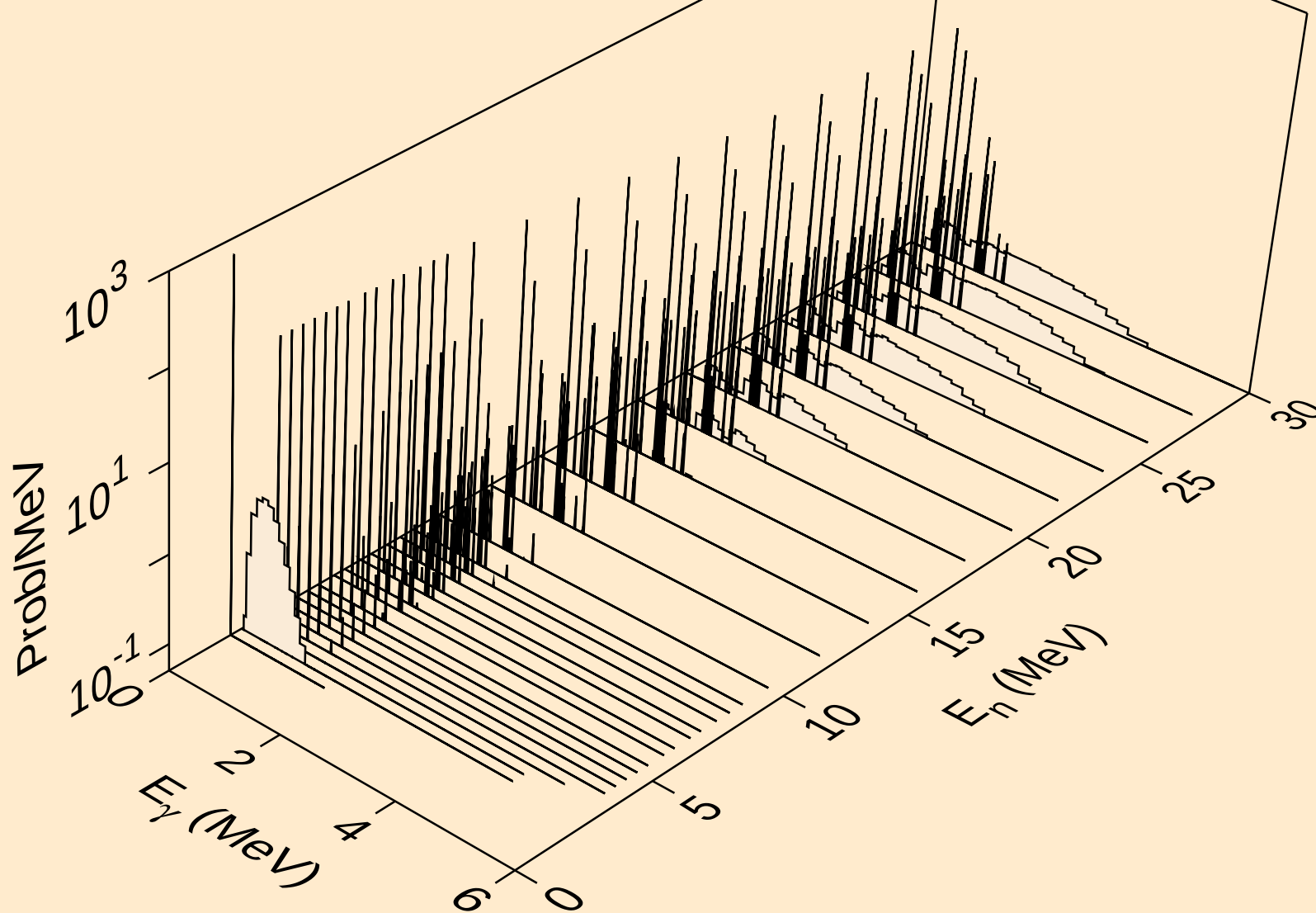
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Photon emission for (n,he3)



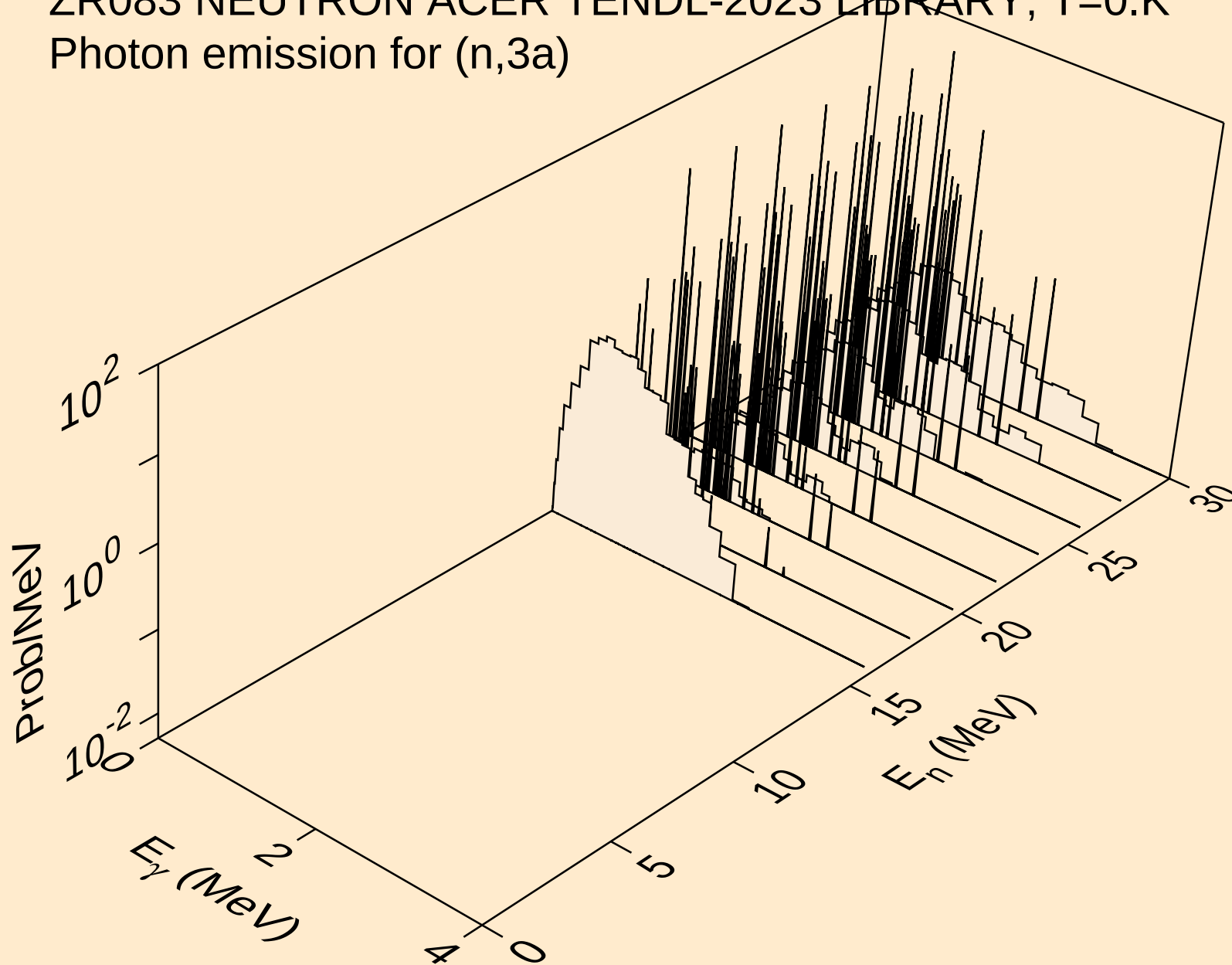
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Photon emission for (n,a)



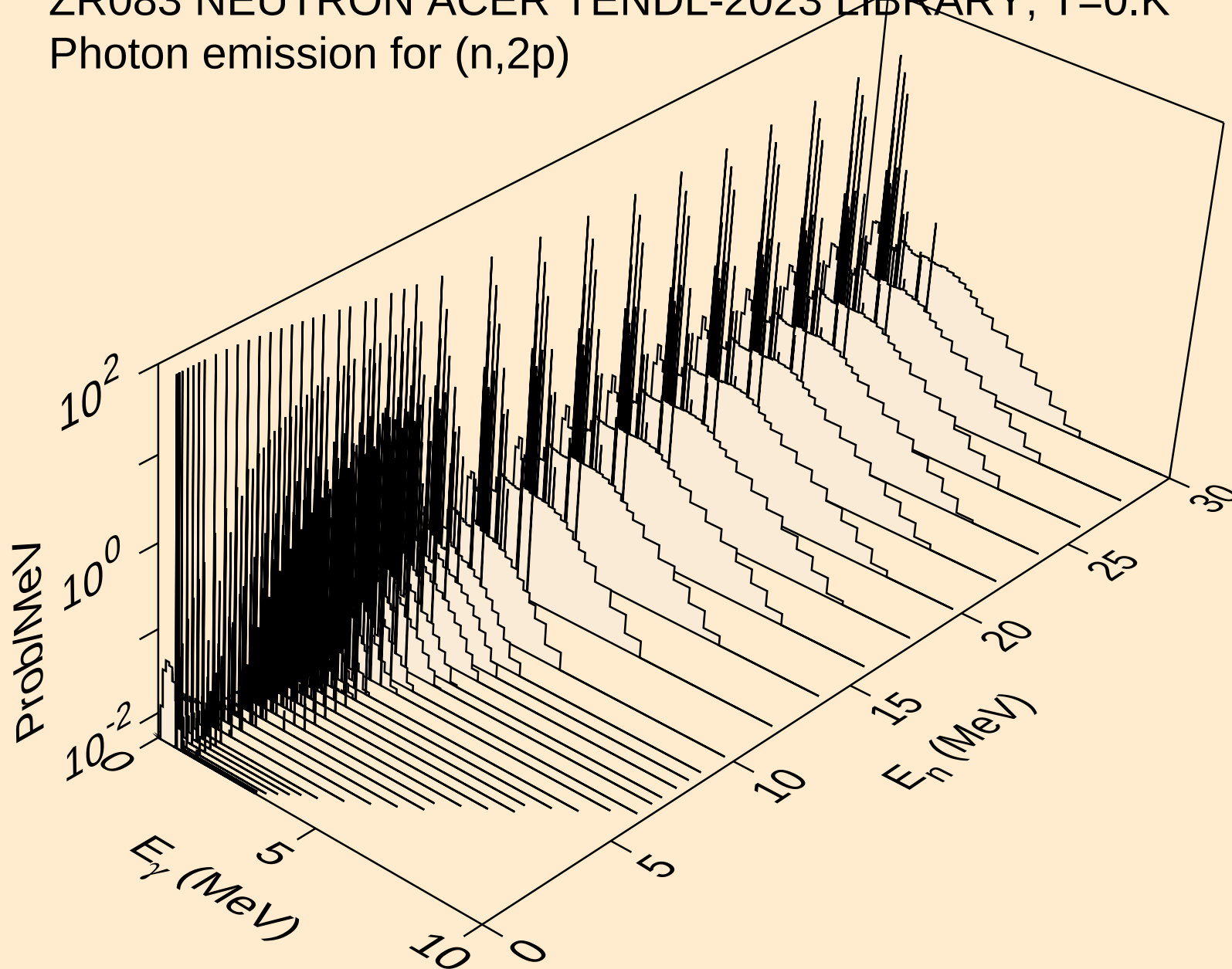
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Photon emission for (n,2a)



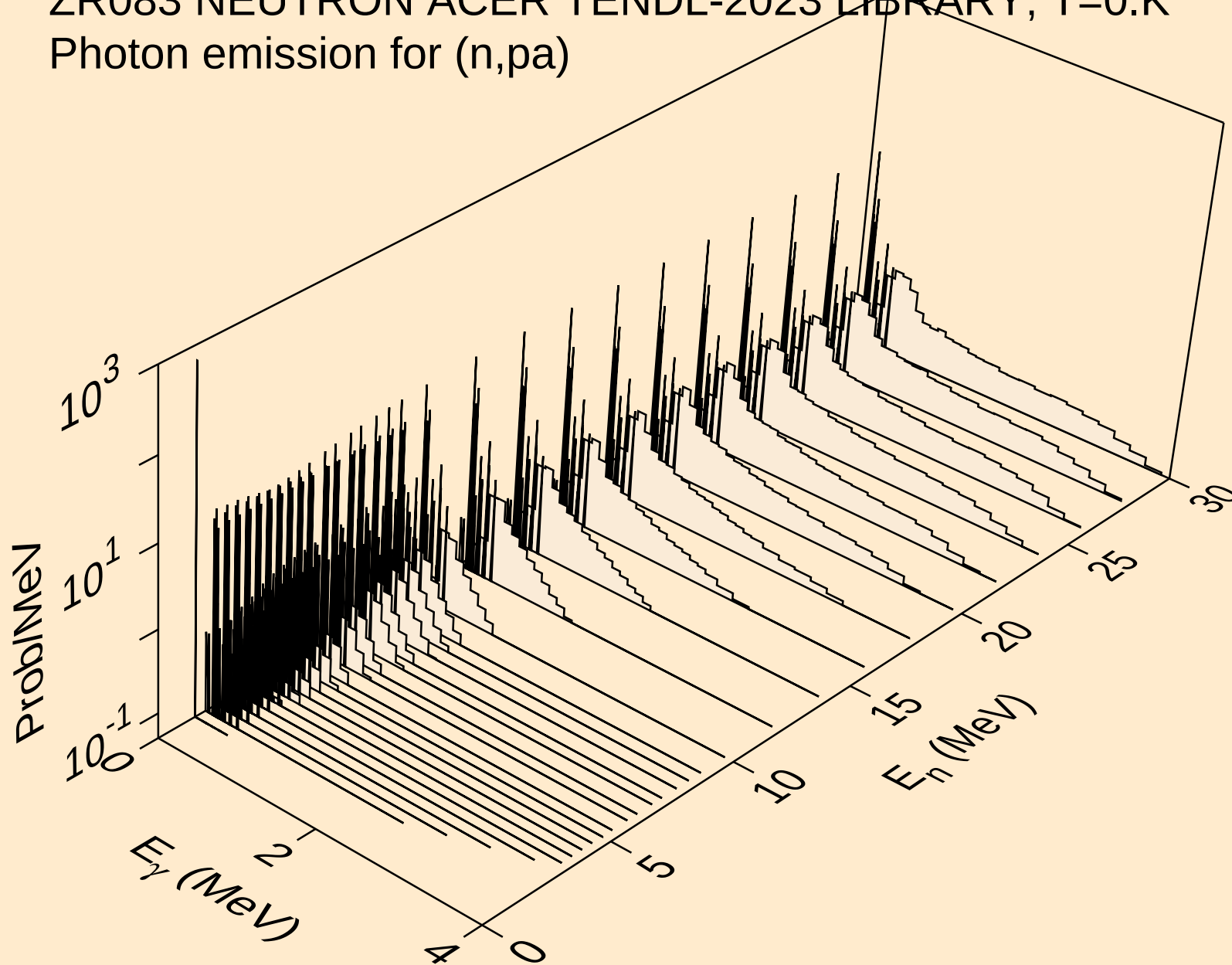
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3a)



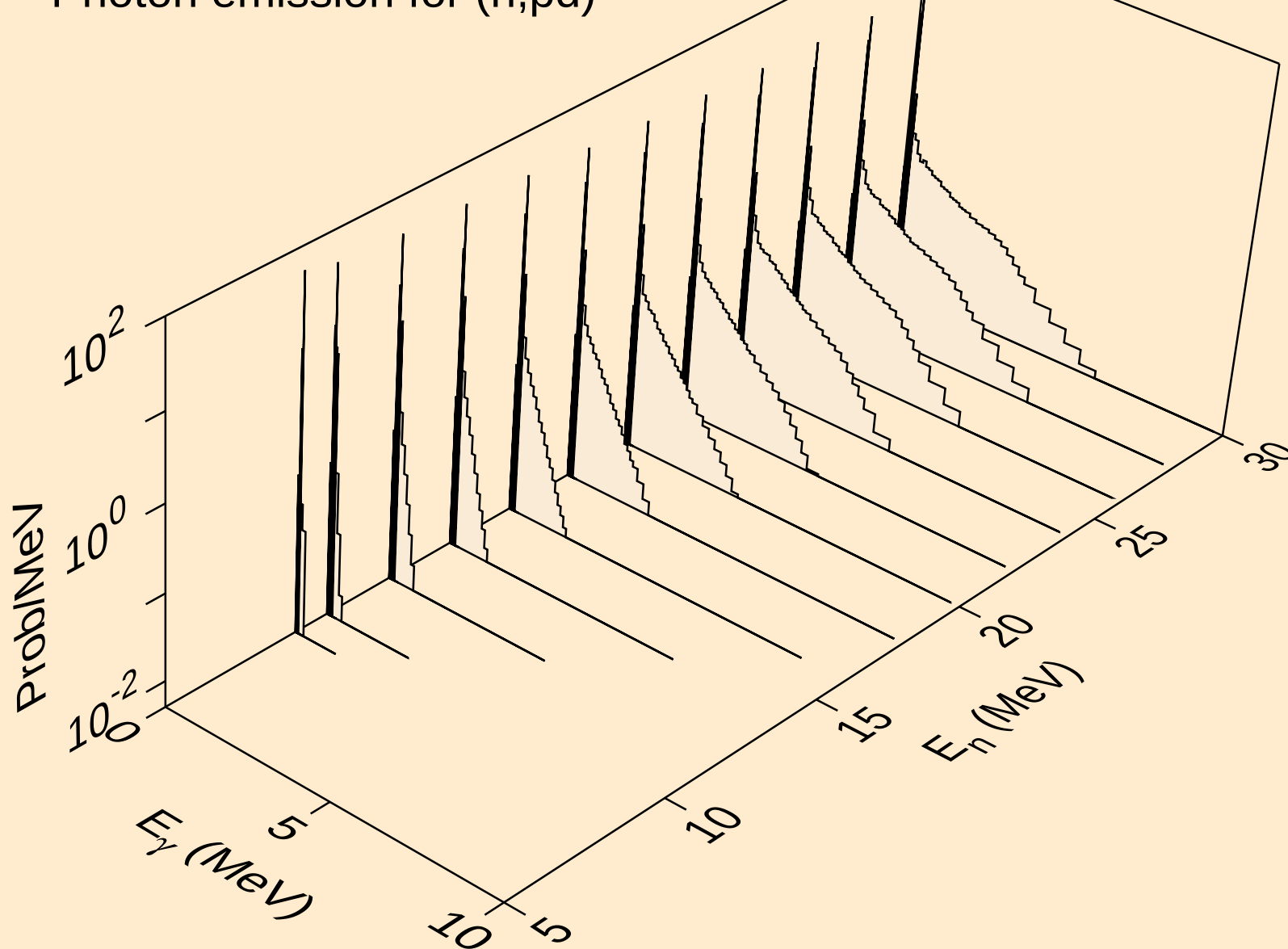
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Photon emission for (n,2p)



ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p α)

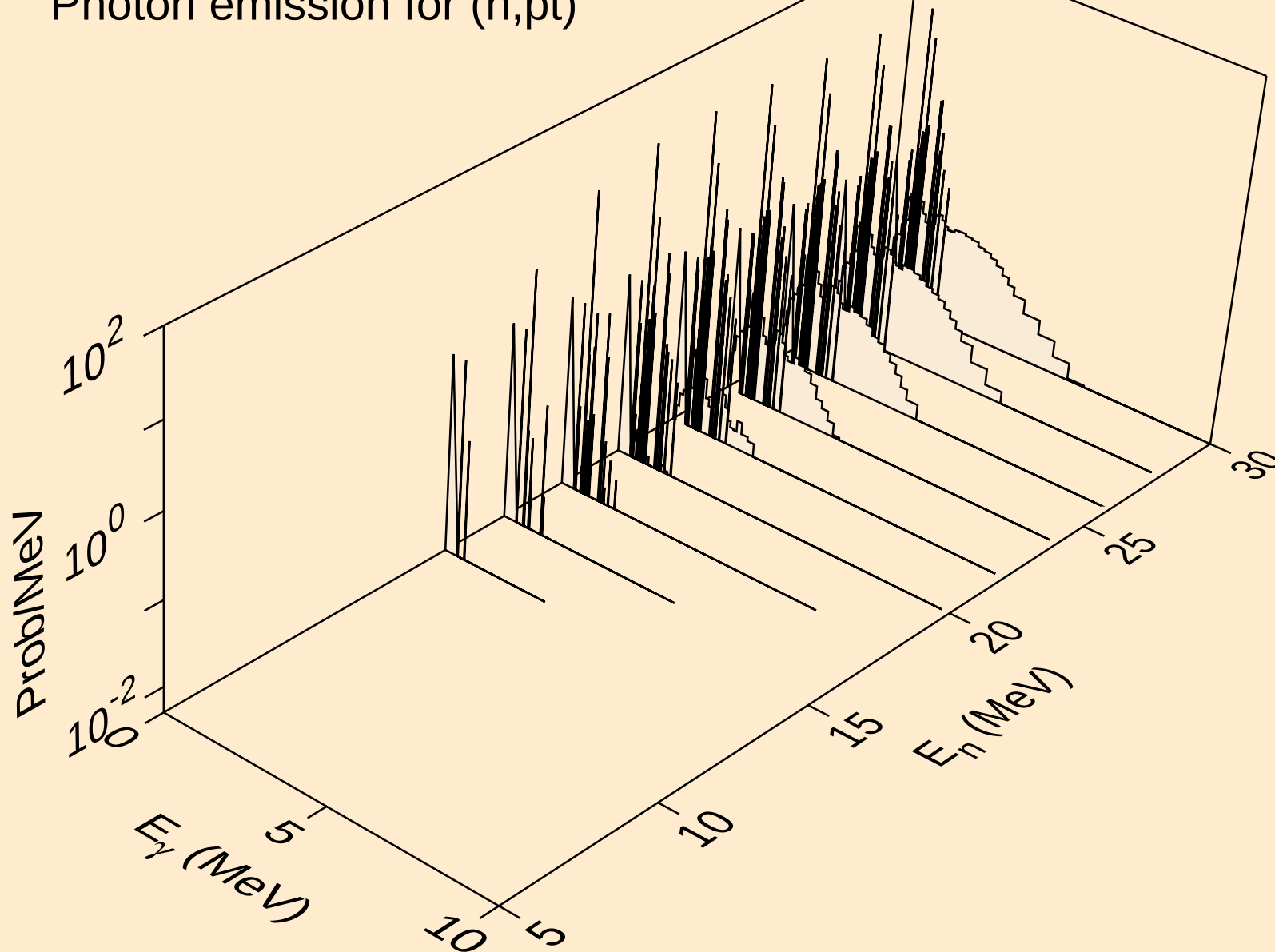


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pd)

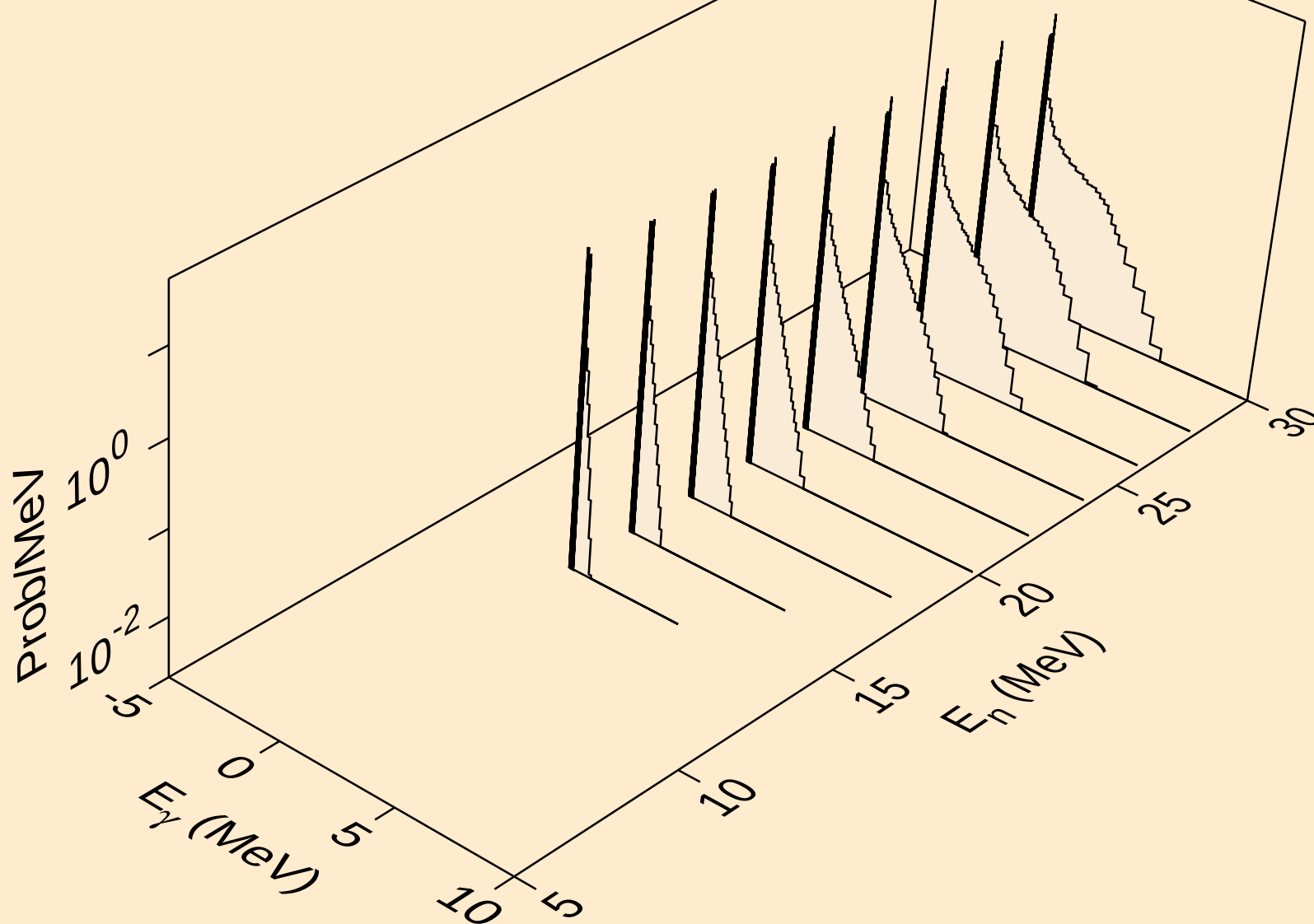


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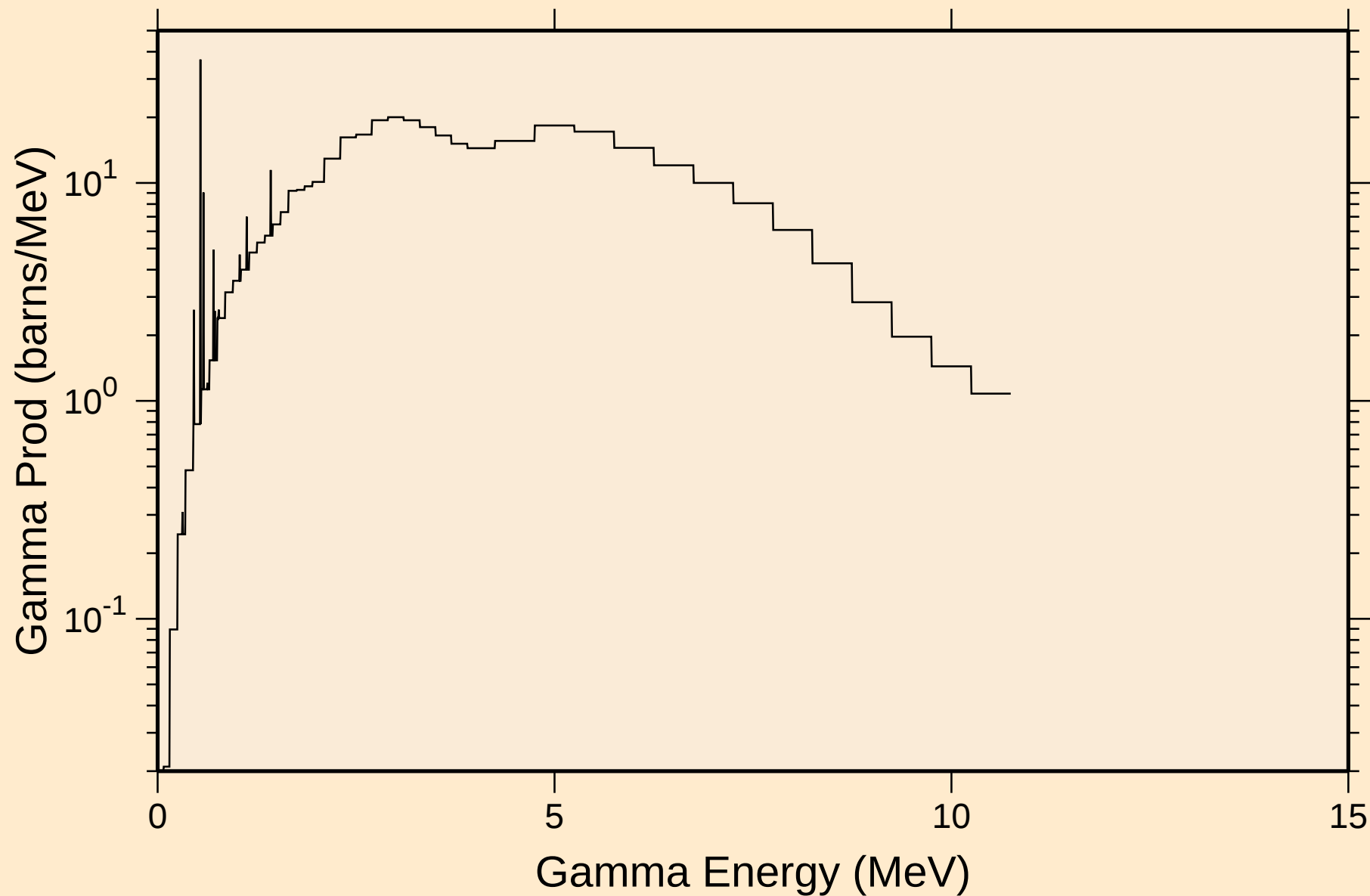
Photon emission for (n,pt)



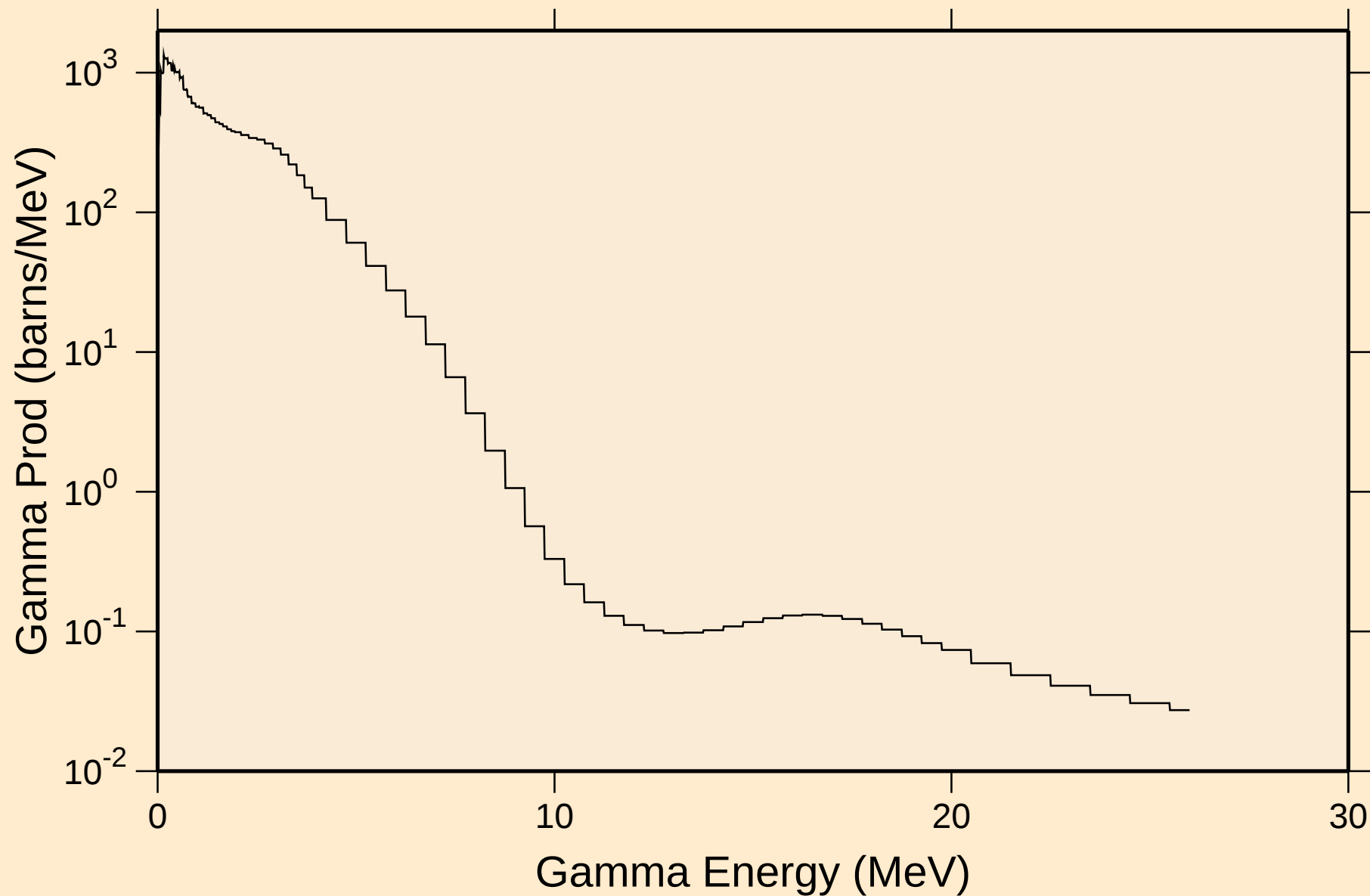
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,da)



ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
thermal capture photon spectrum

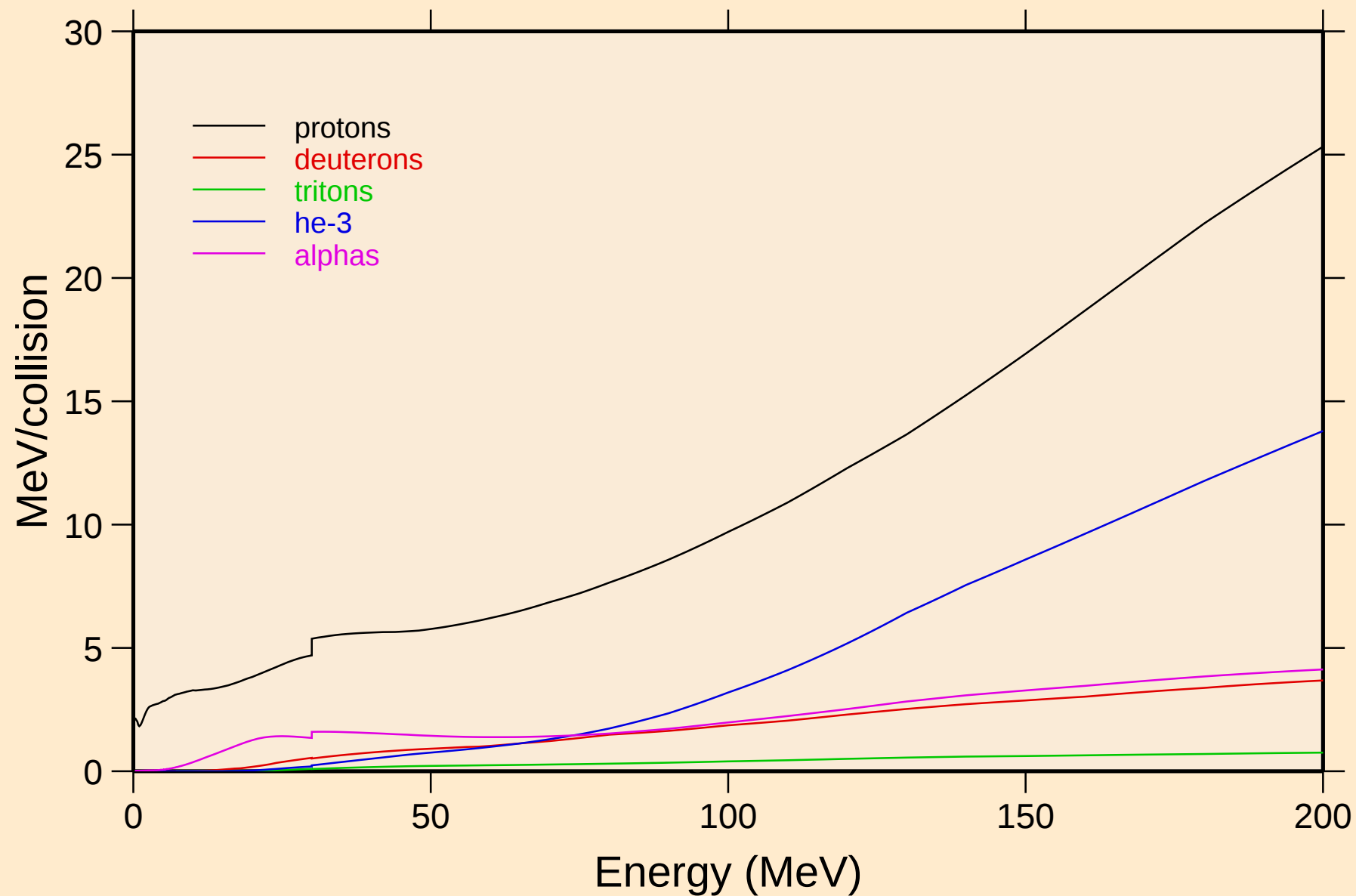


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
14 MeV photon spectrum



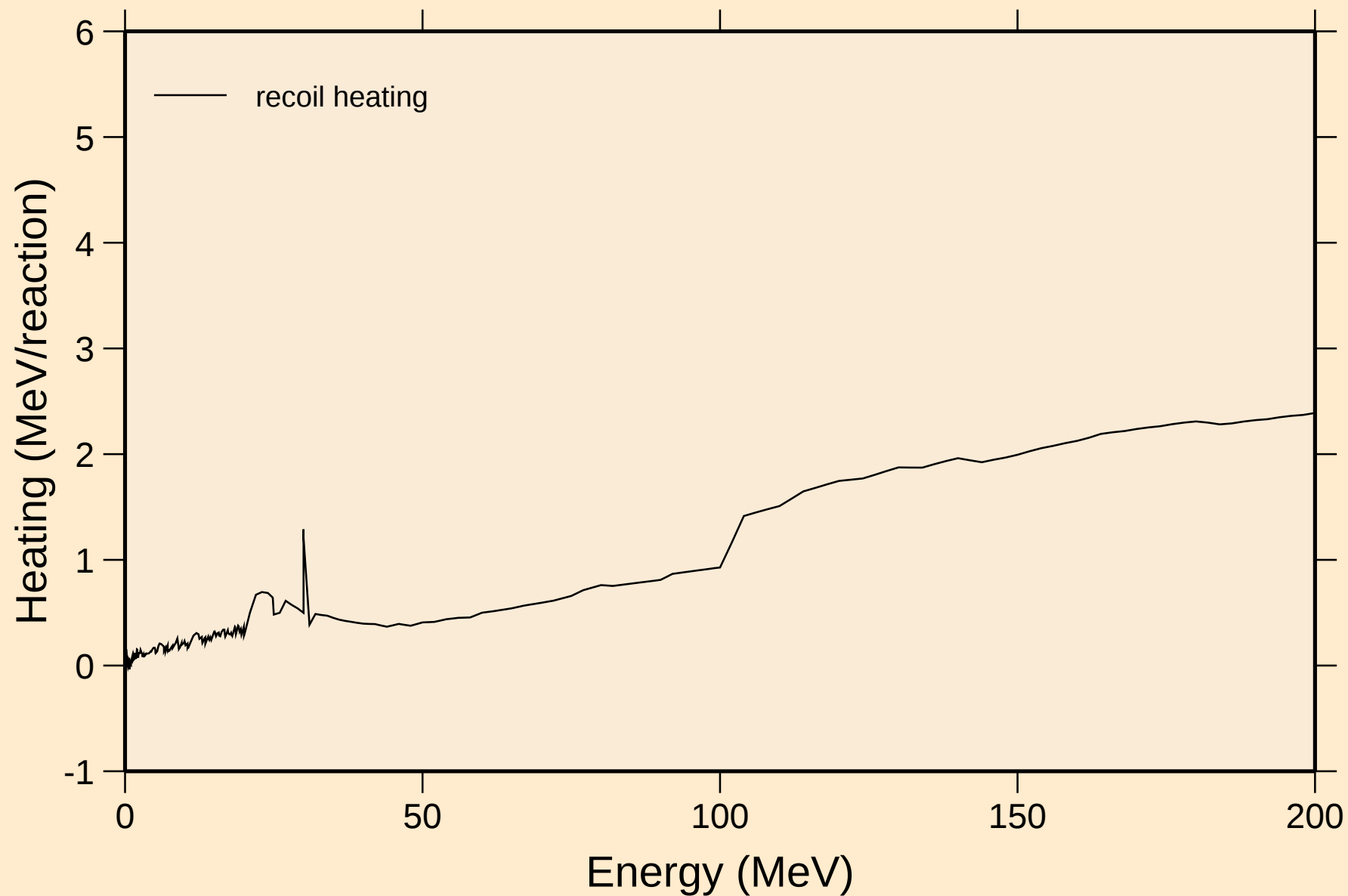
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Particle heating contributions



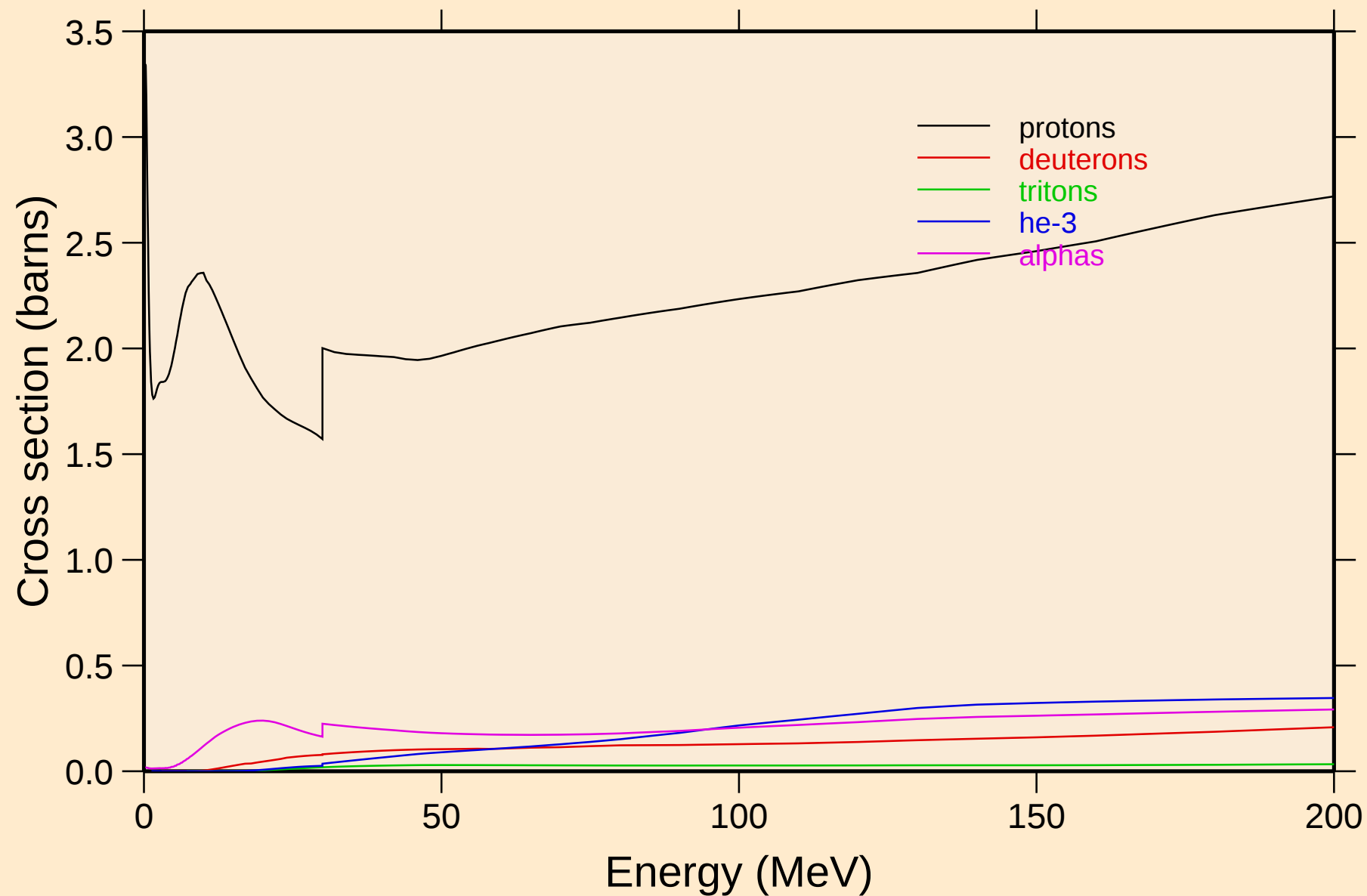
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Recoil Heating

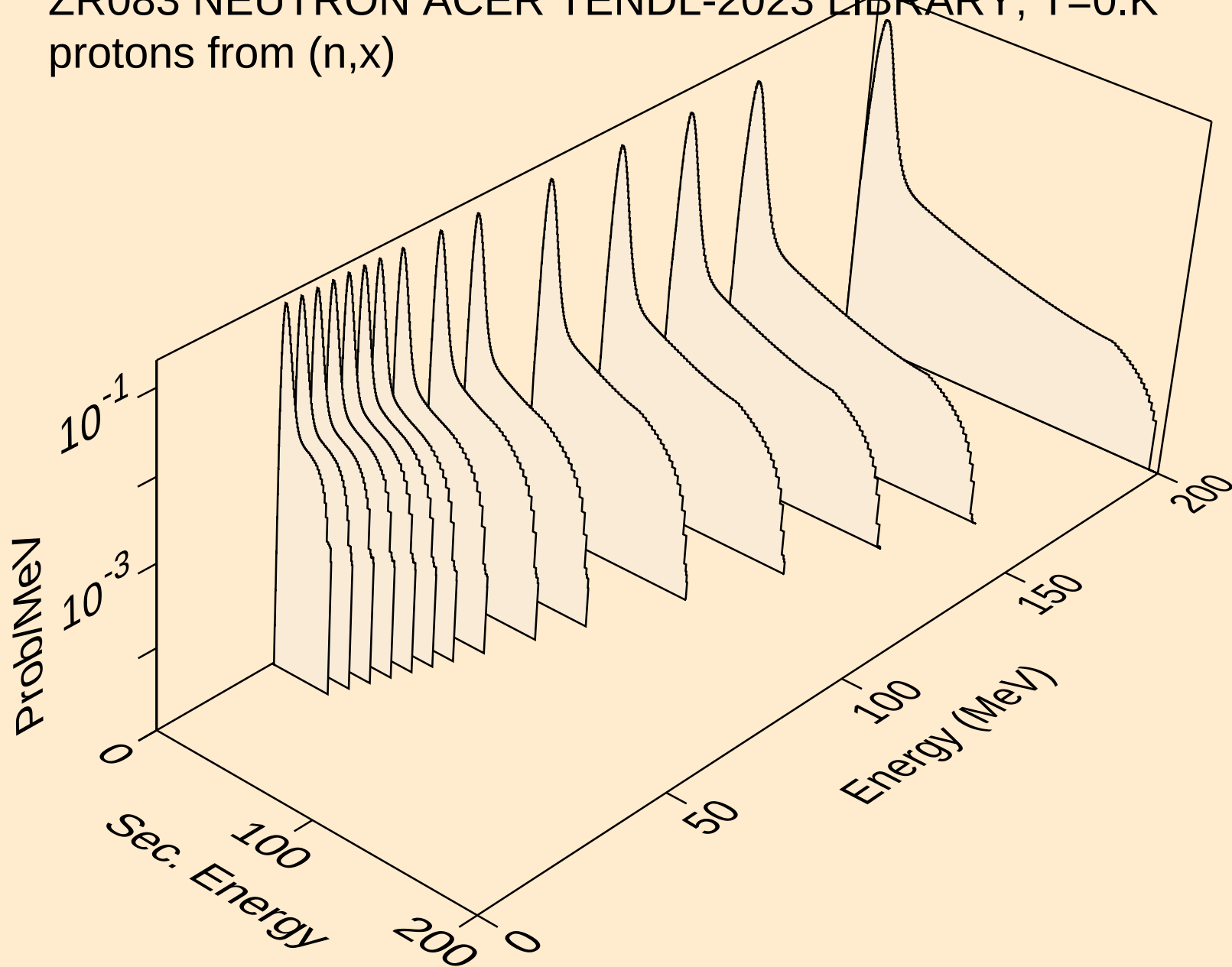


ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

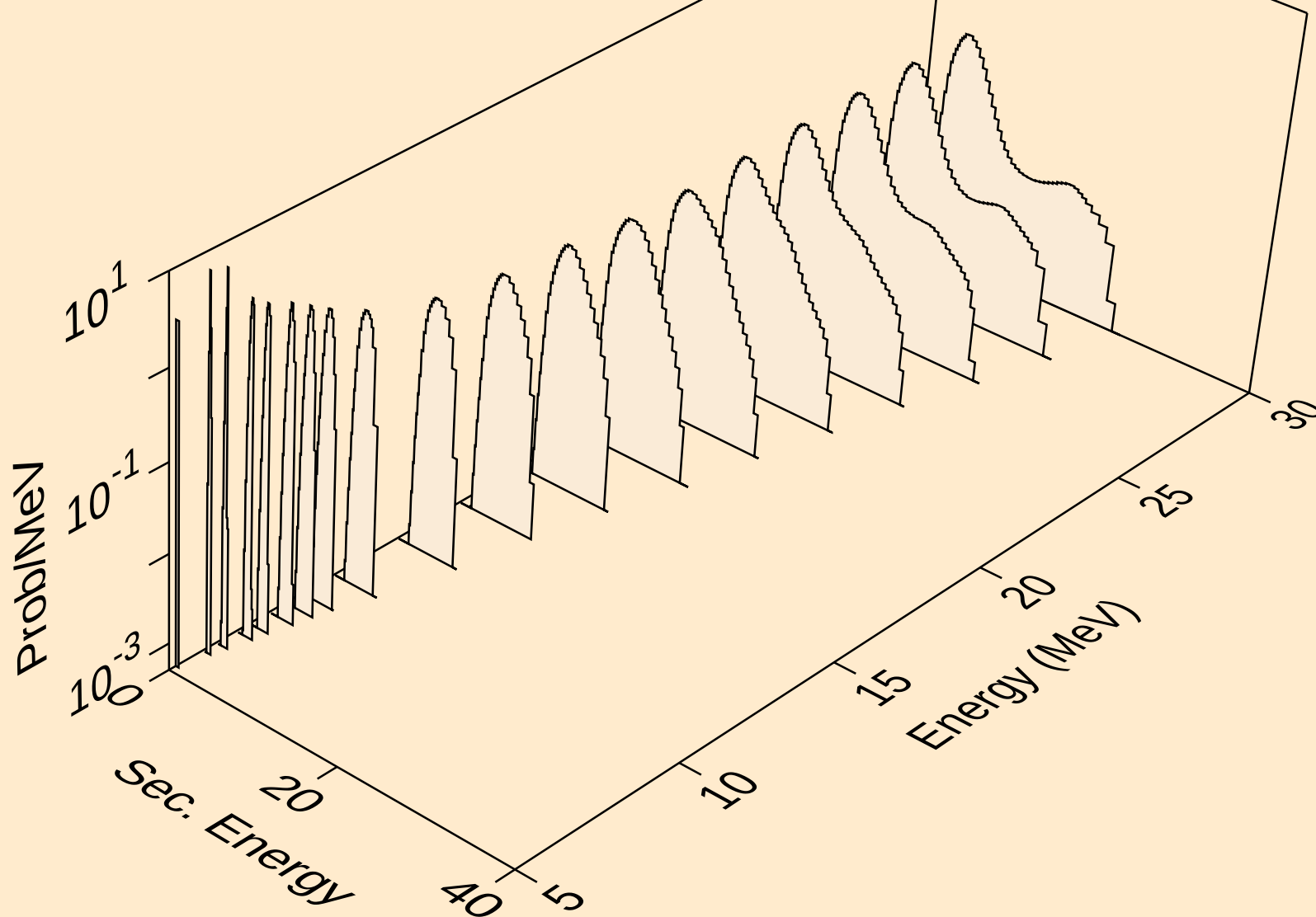
Particle production cross sections



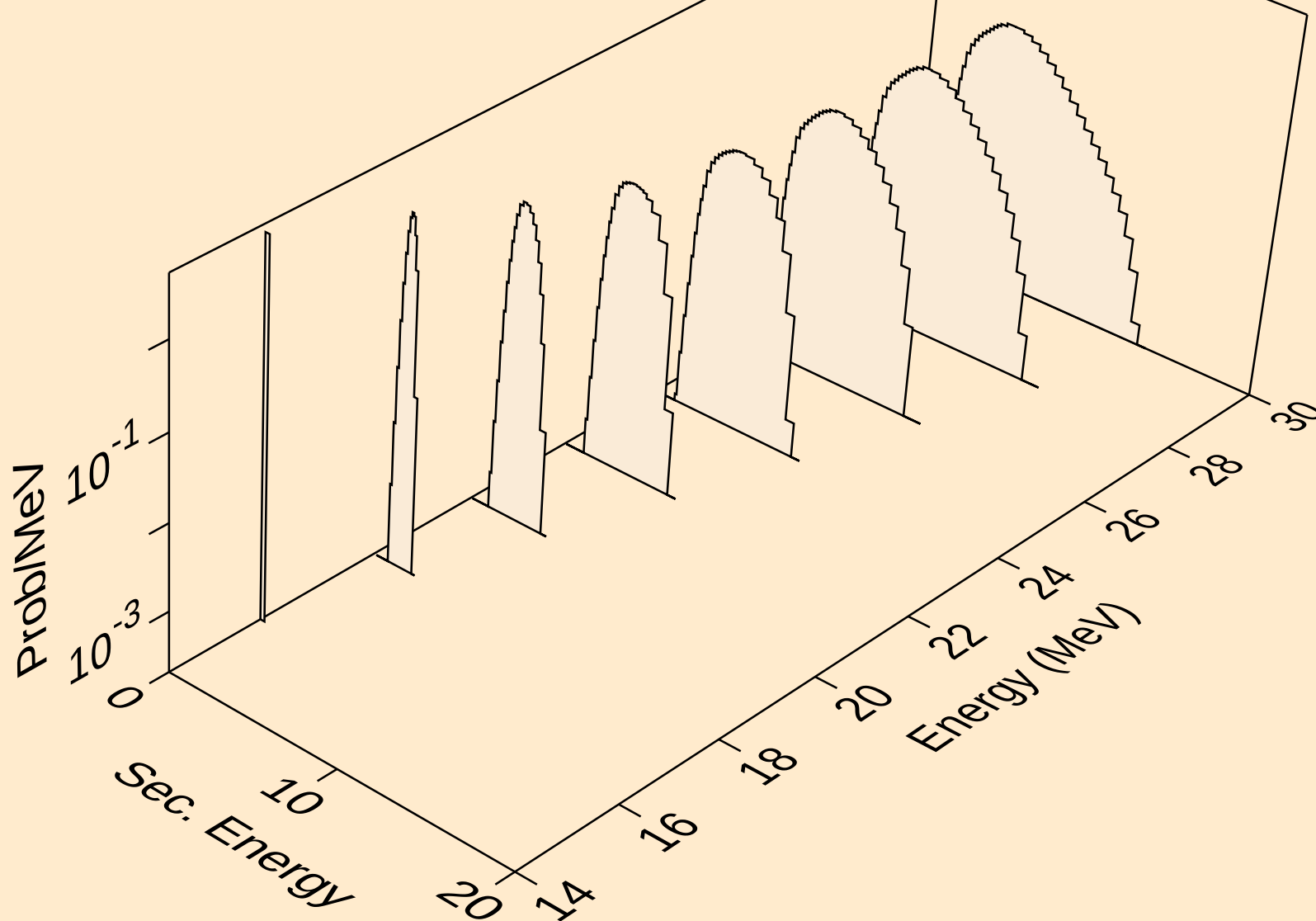
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,x)



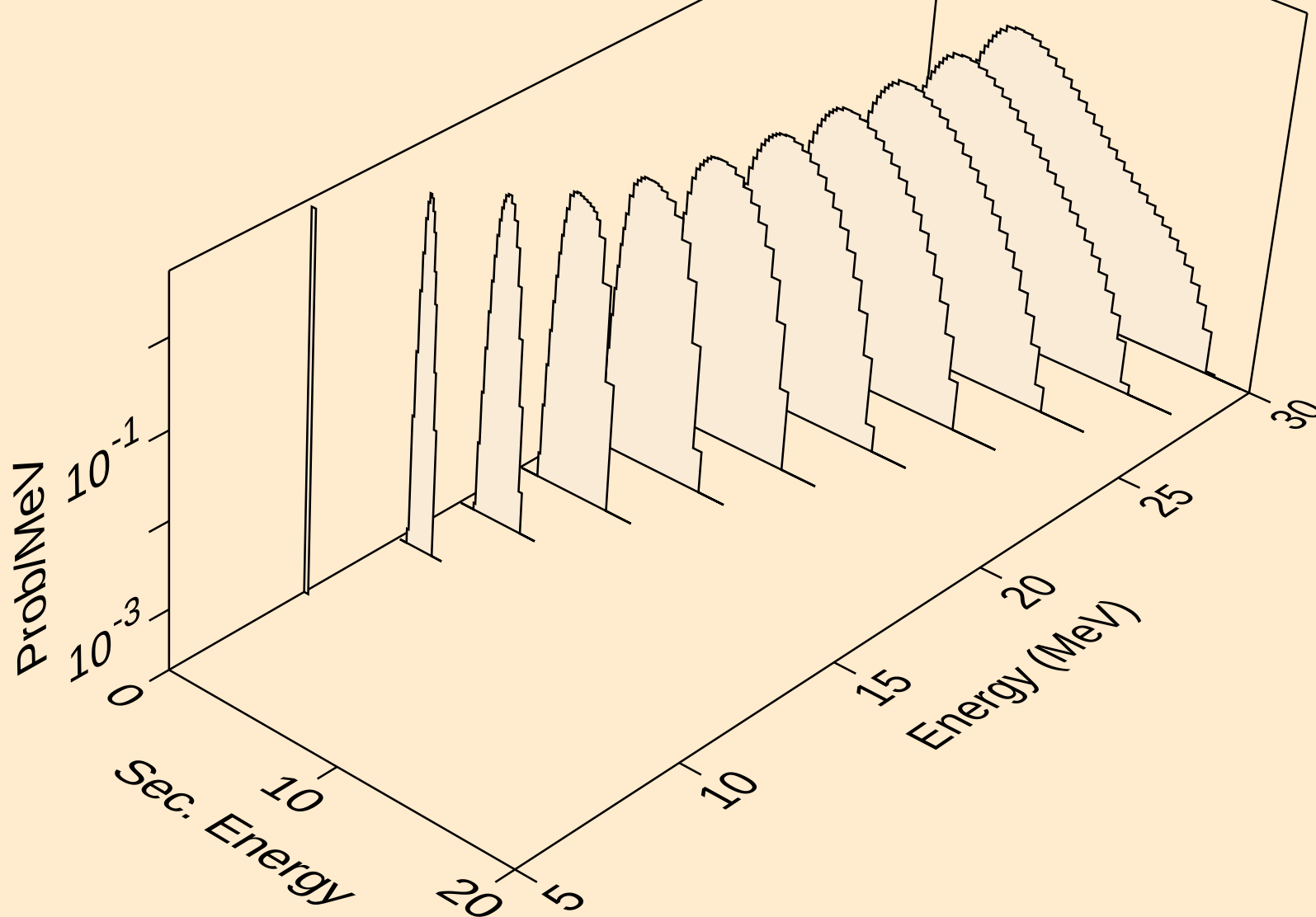
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,n*)p



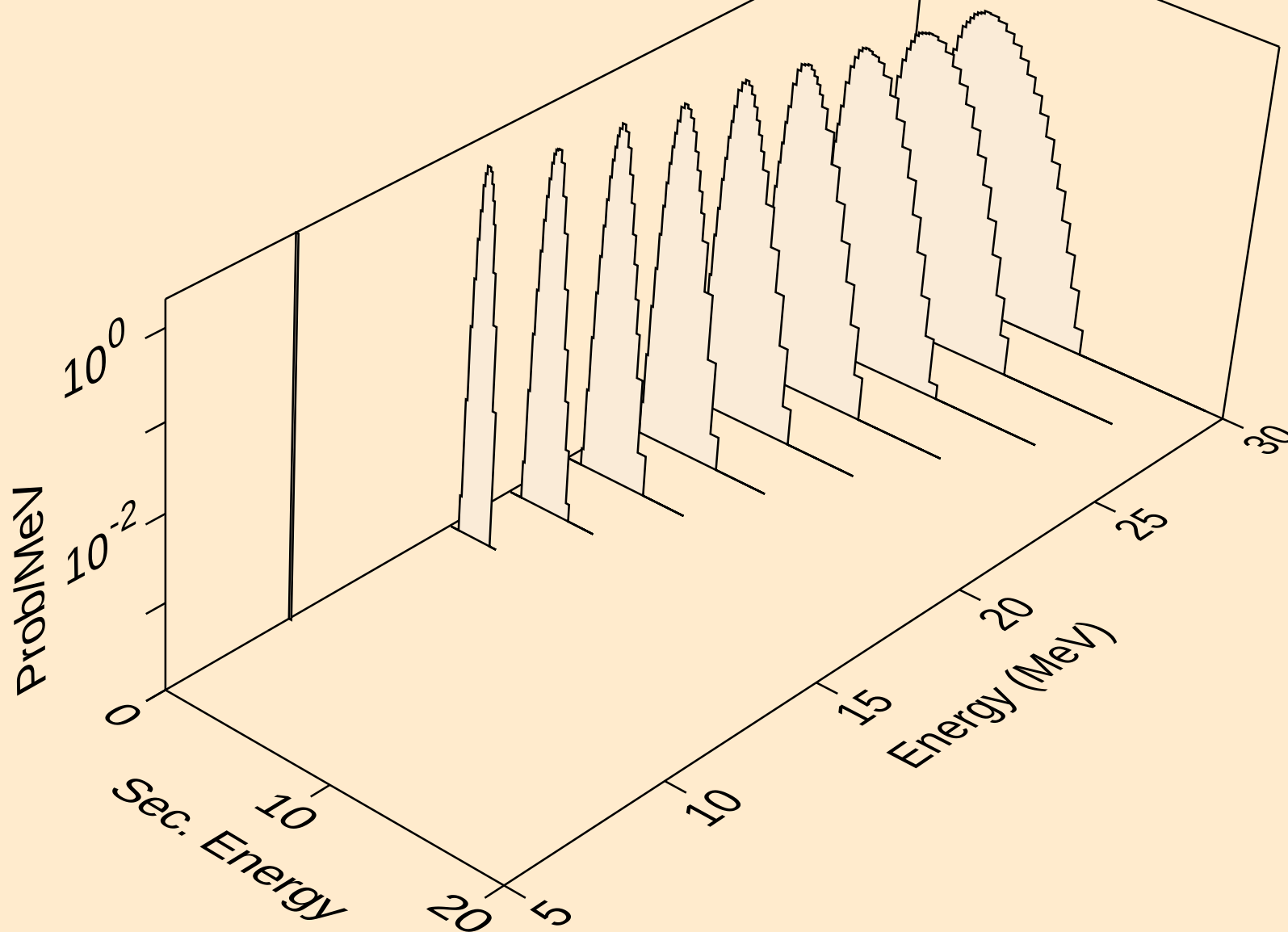
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protons from (n,2np)



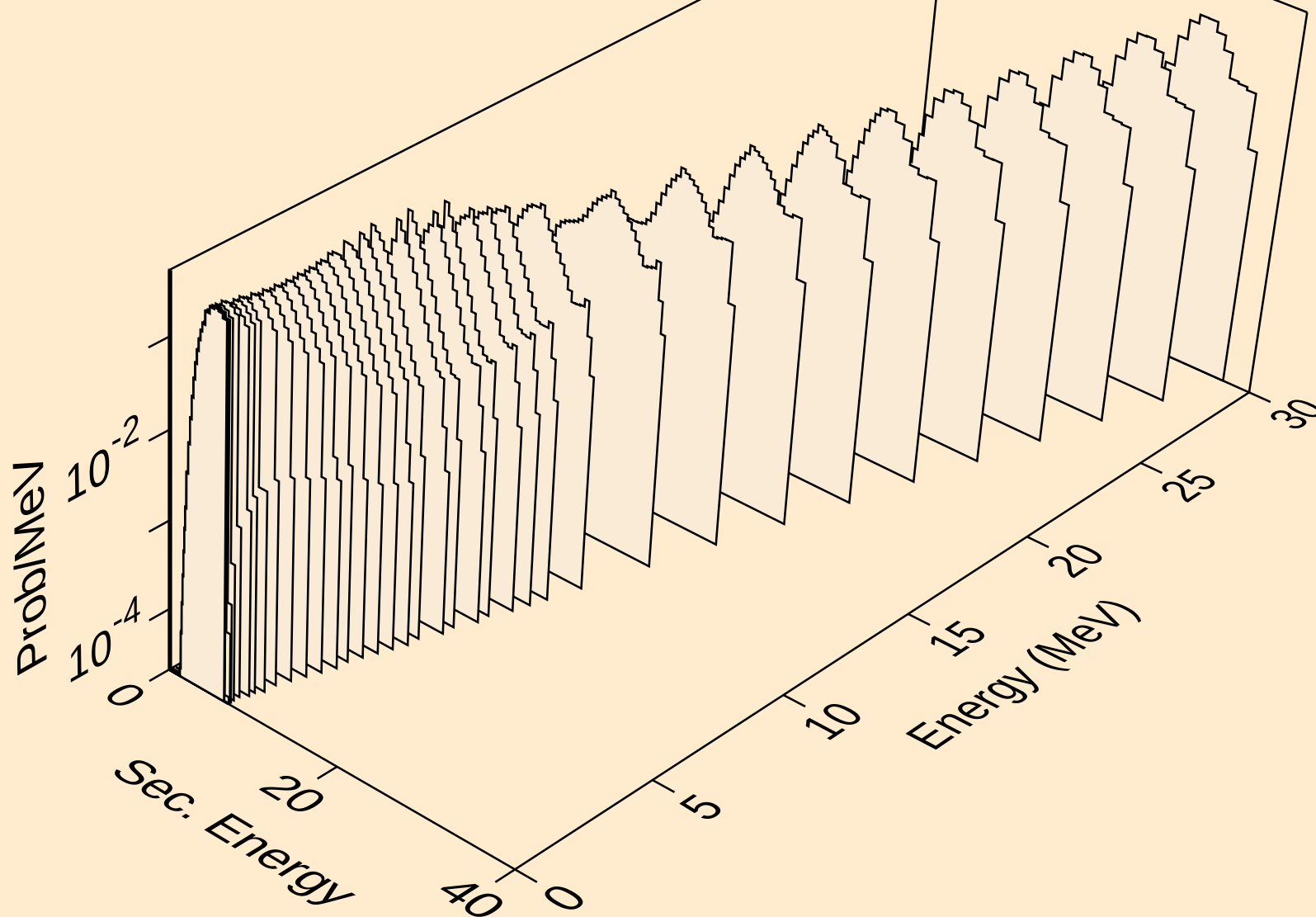
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protons from (n,n2p)



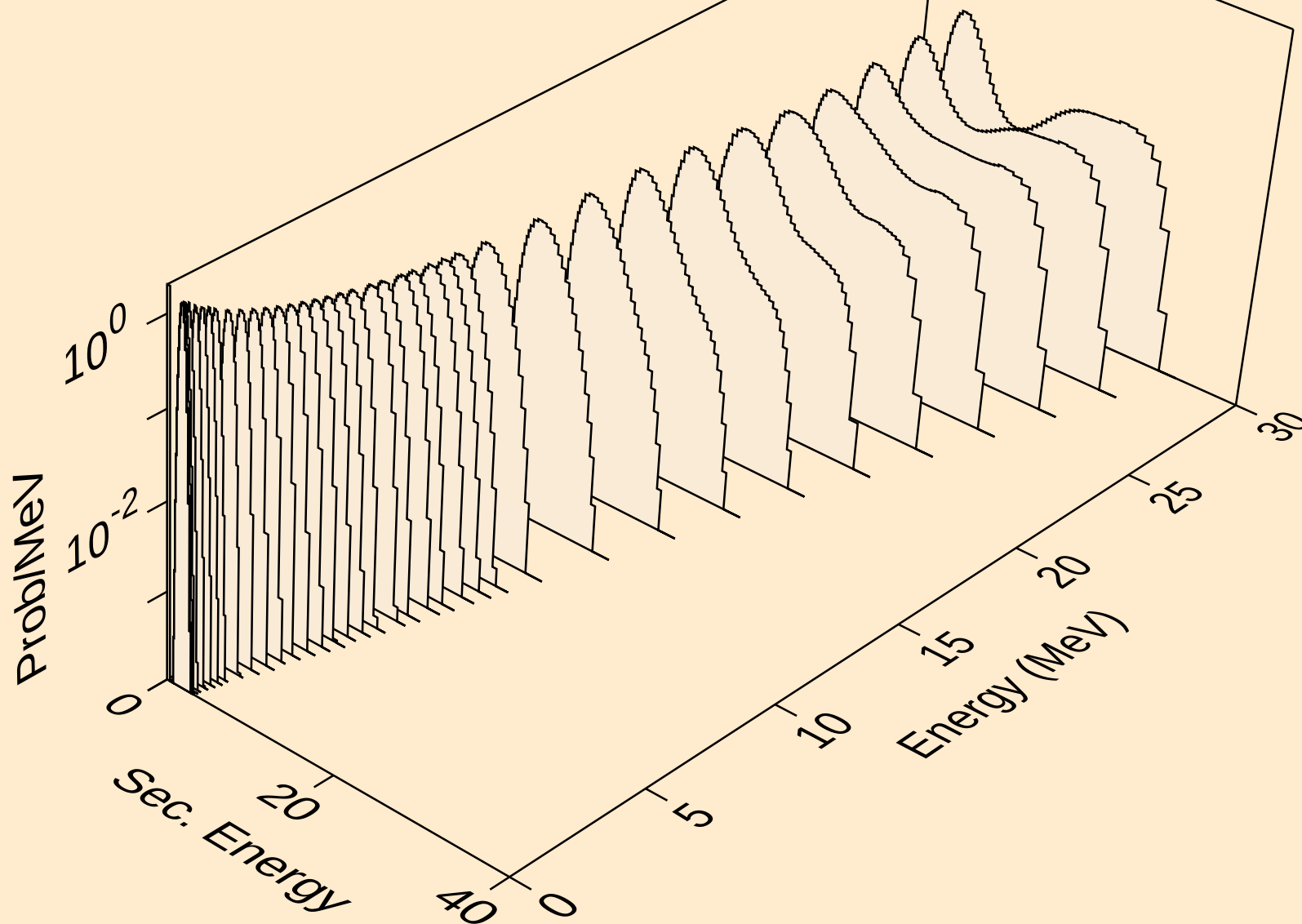
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protons from (n,npa)



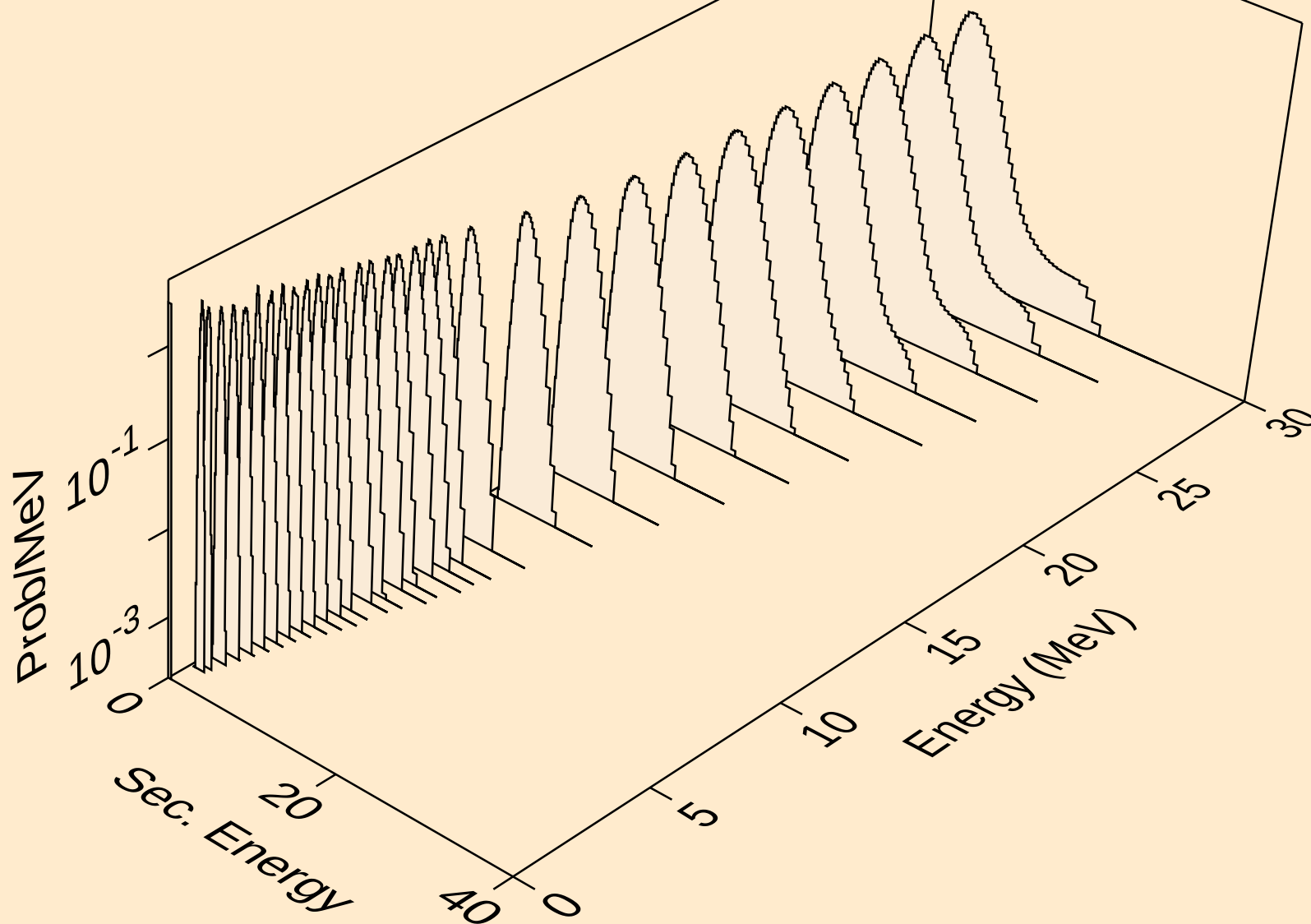
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protons from (n,p)



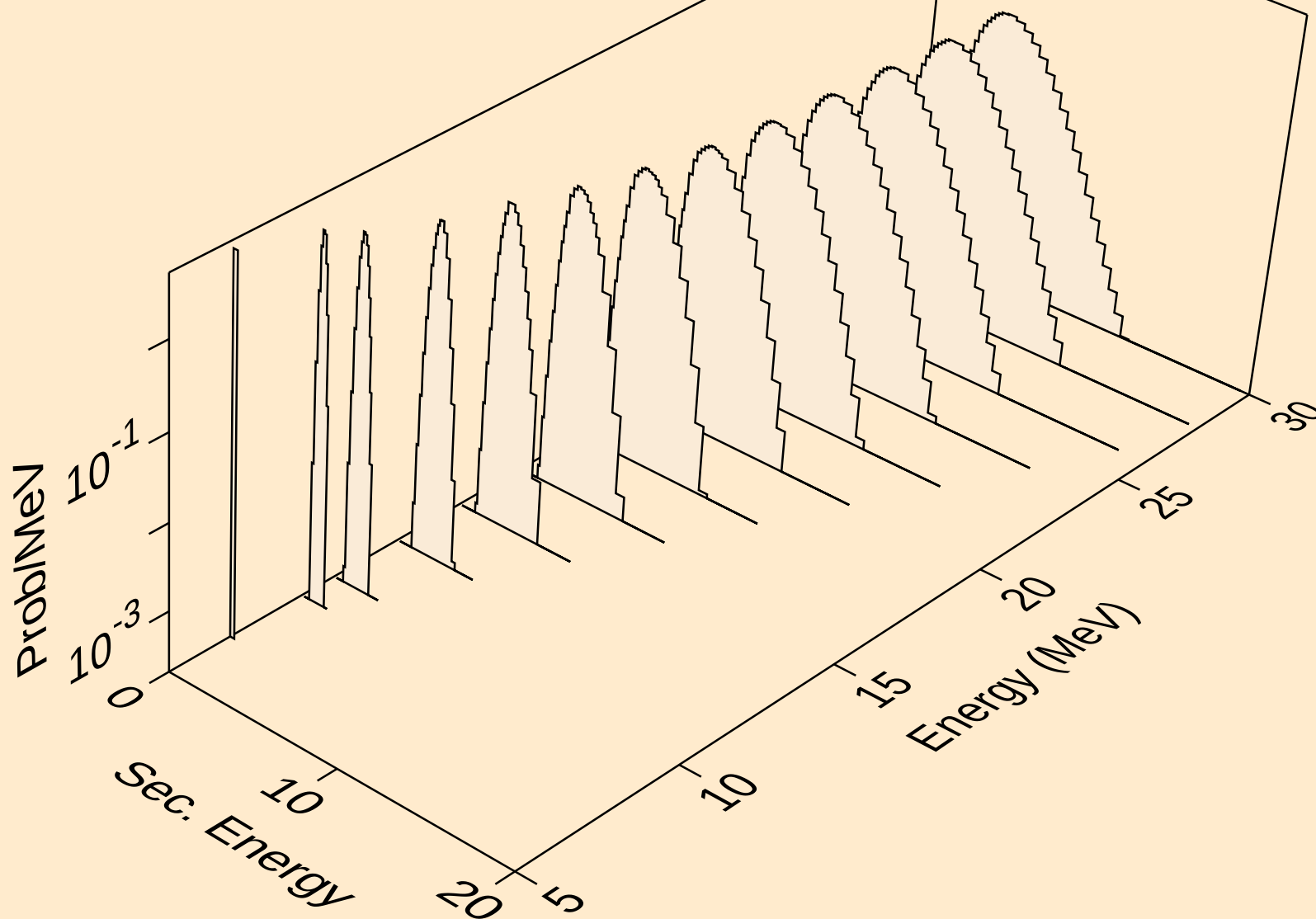
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protons from (n,2p)



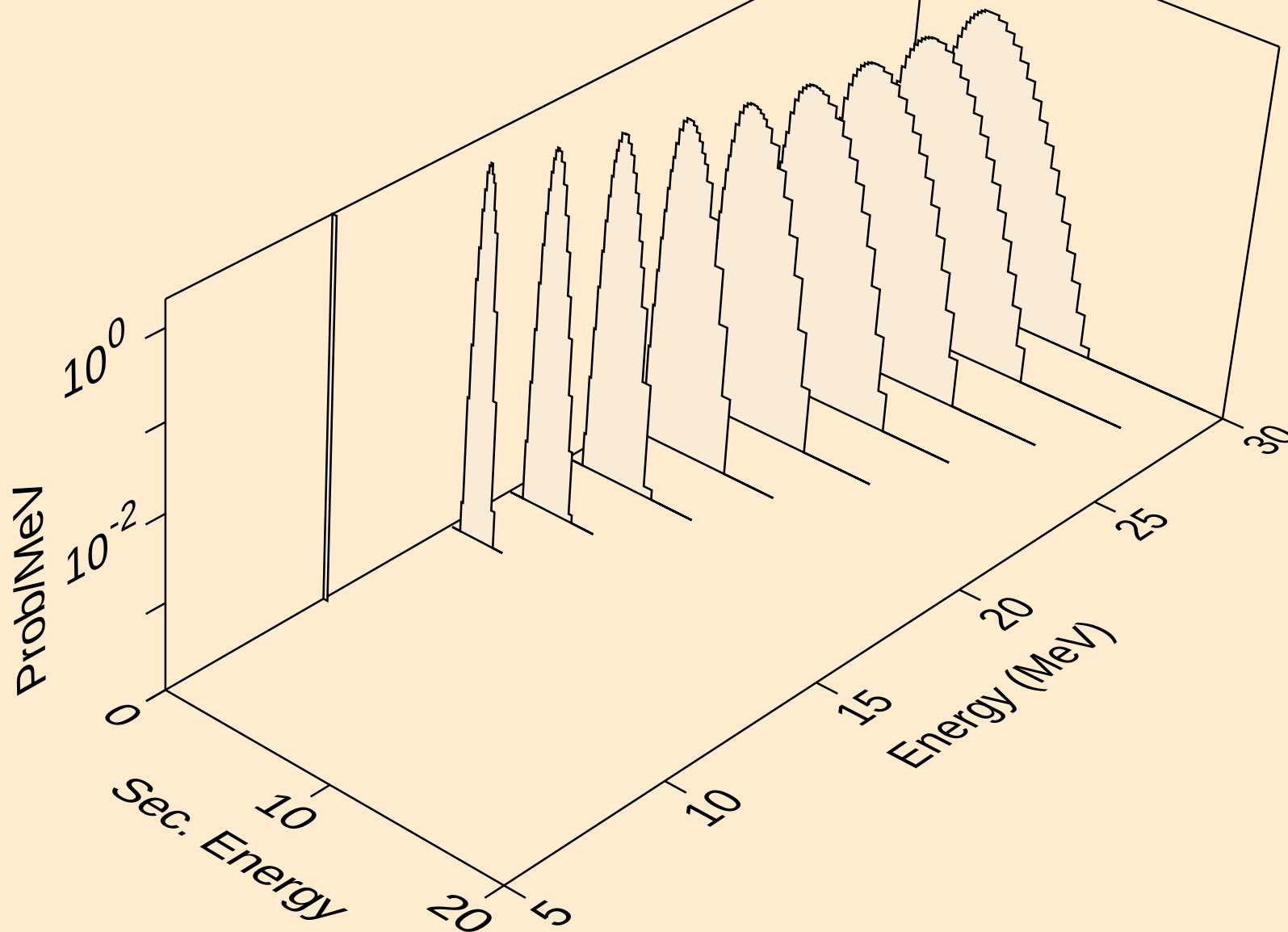
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protons from (n,p)



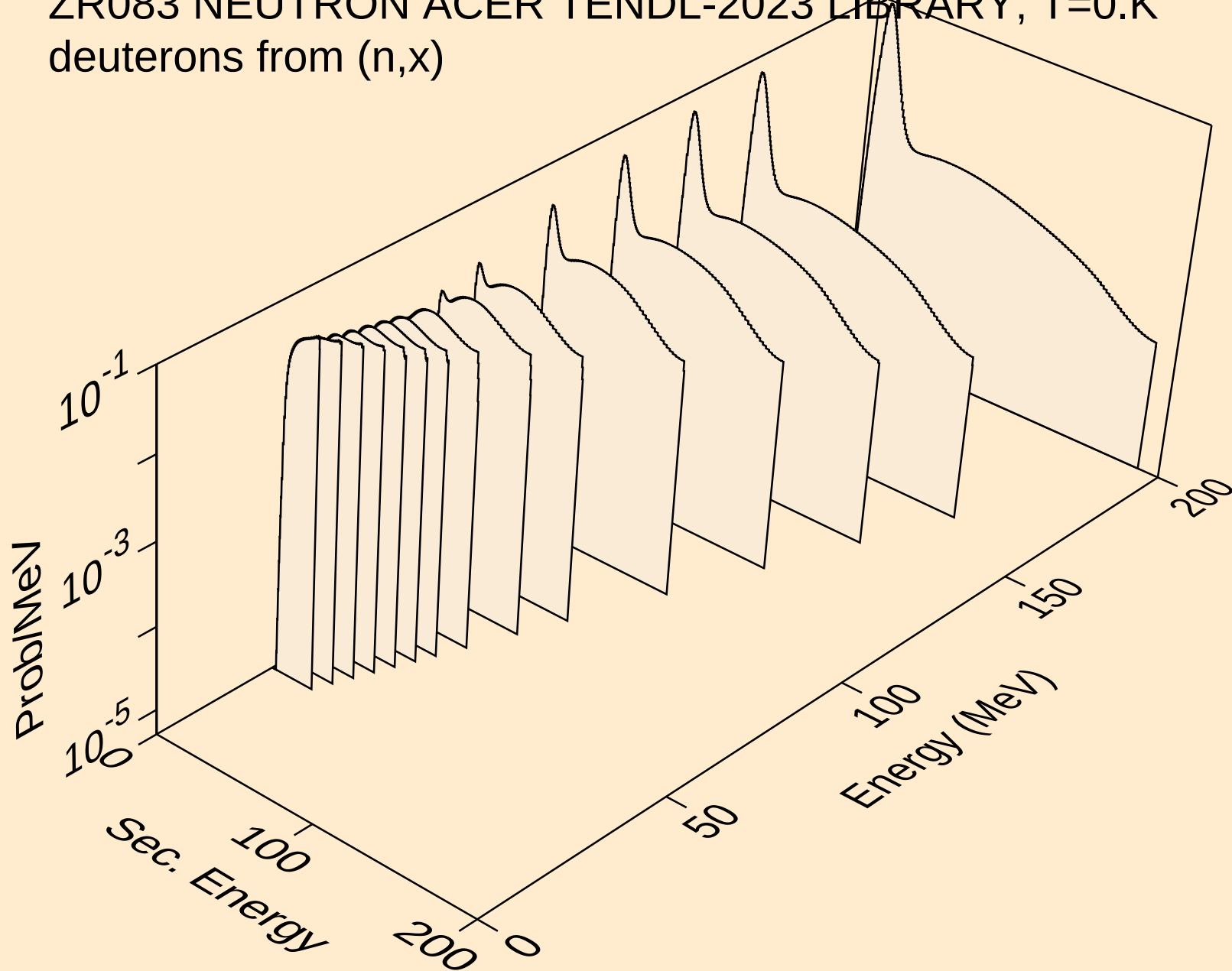
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protons from (n,pd)



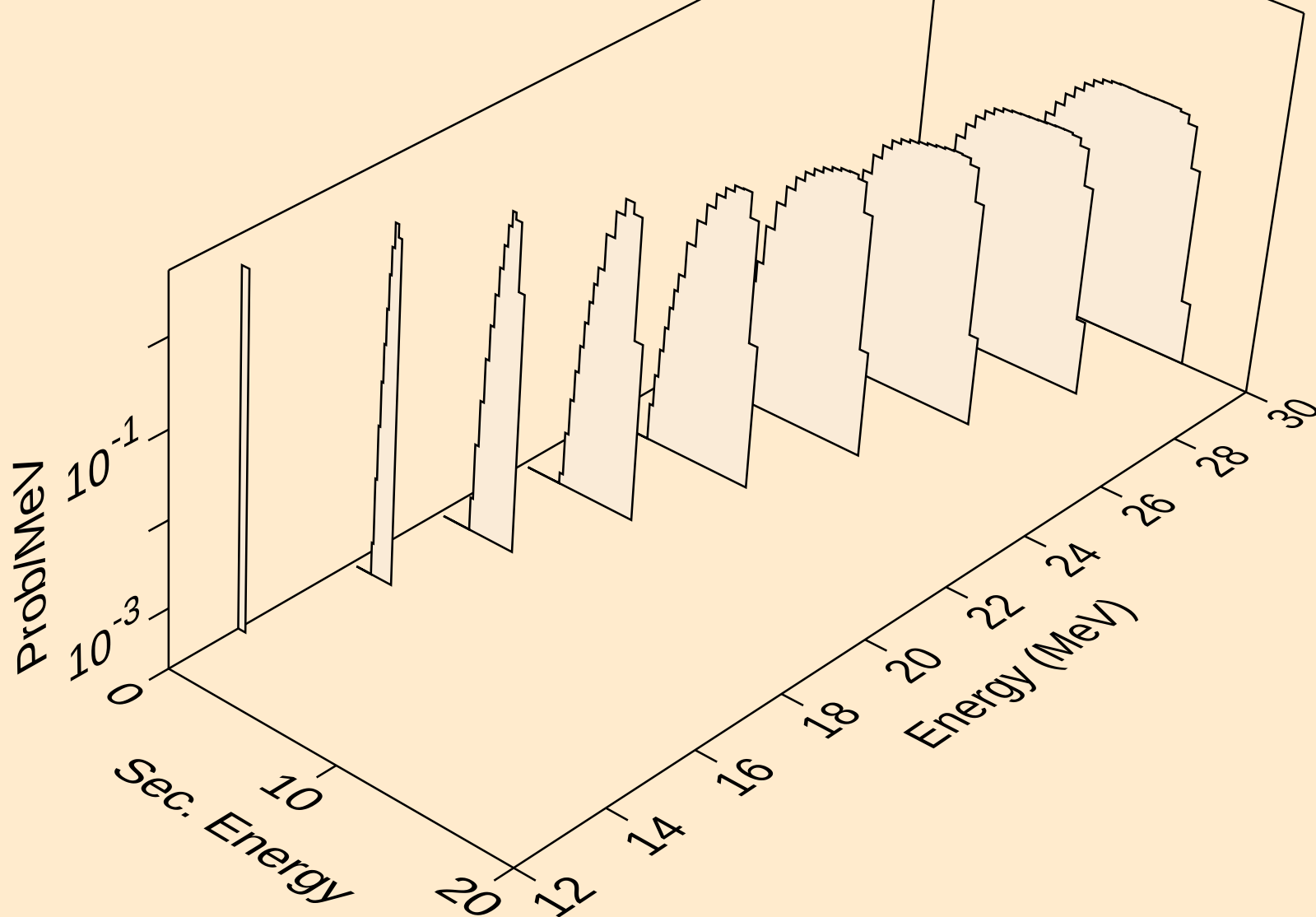
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protons from (n,pt)



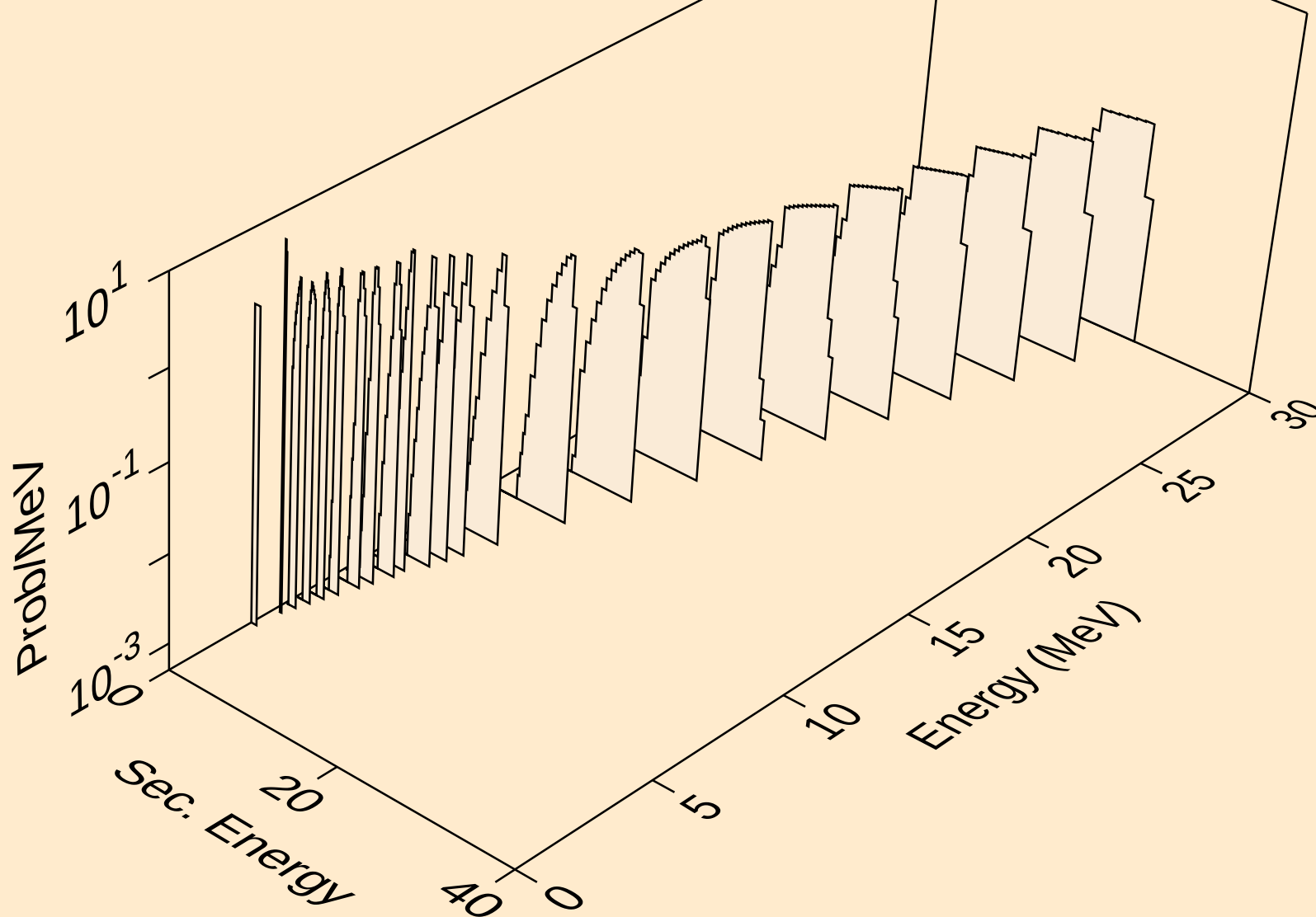
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deuterons from (n,x)



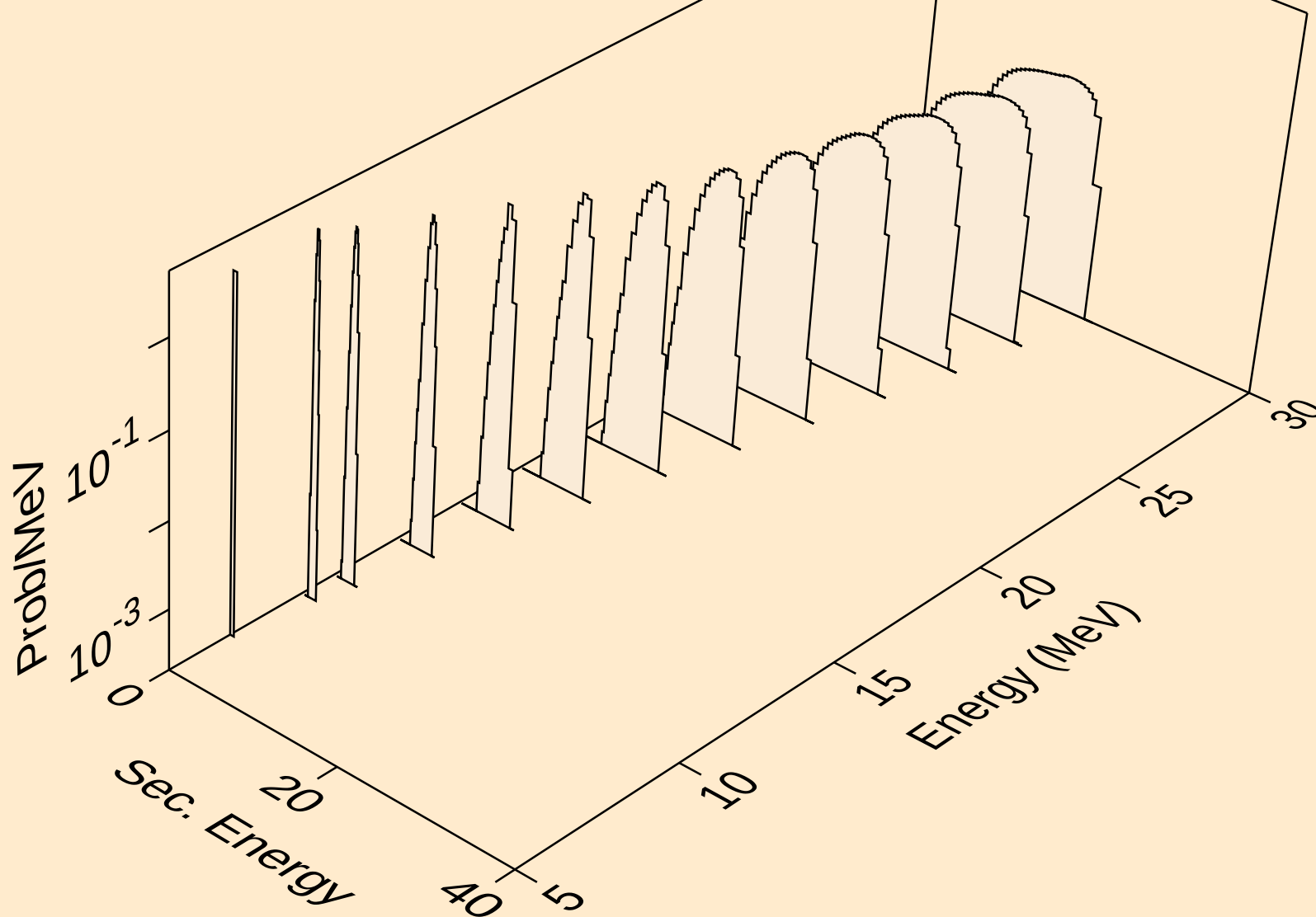
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deuterons from (n,n*)d



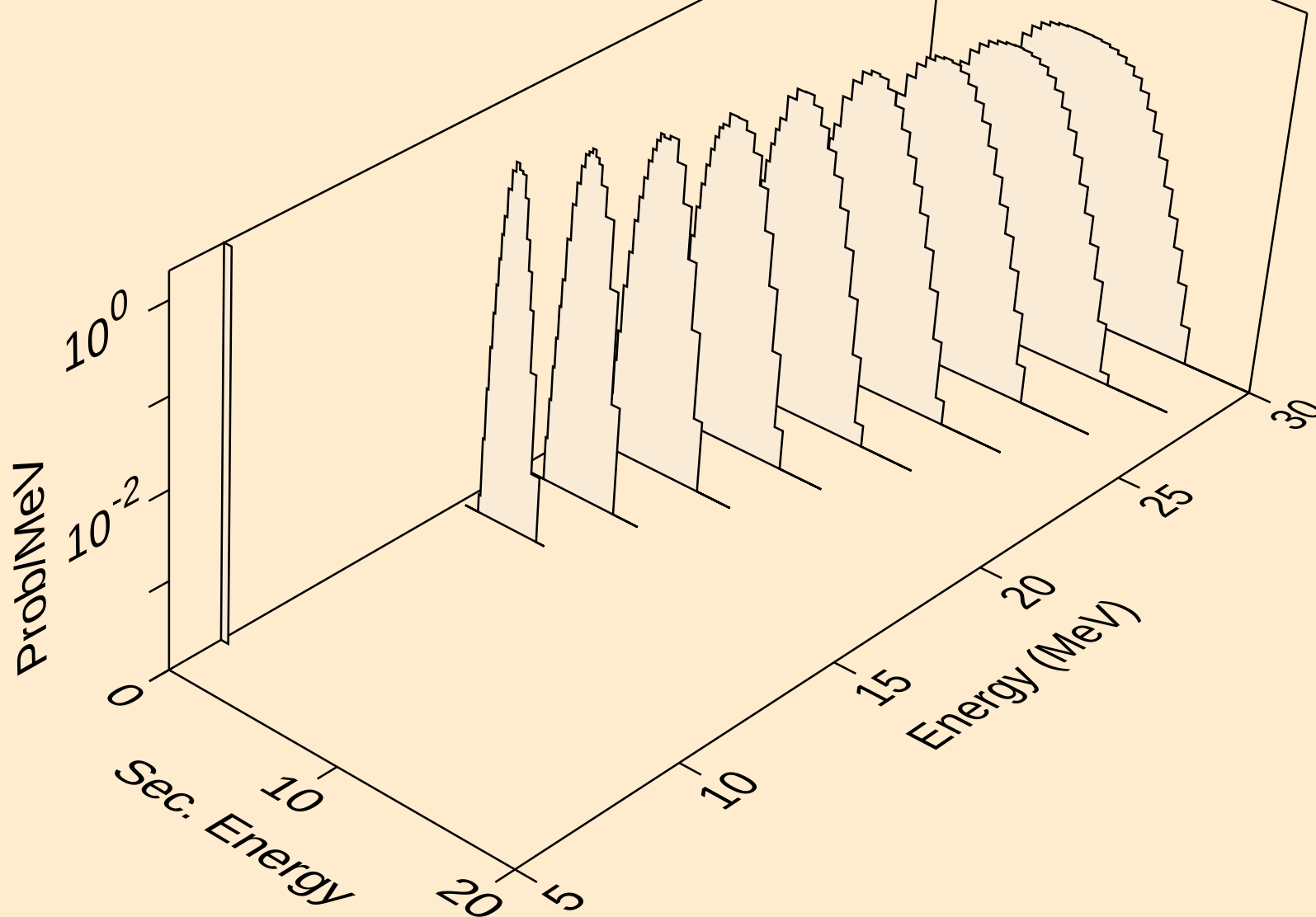
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deuterons from (n,d)



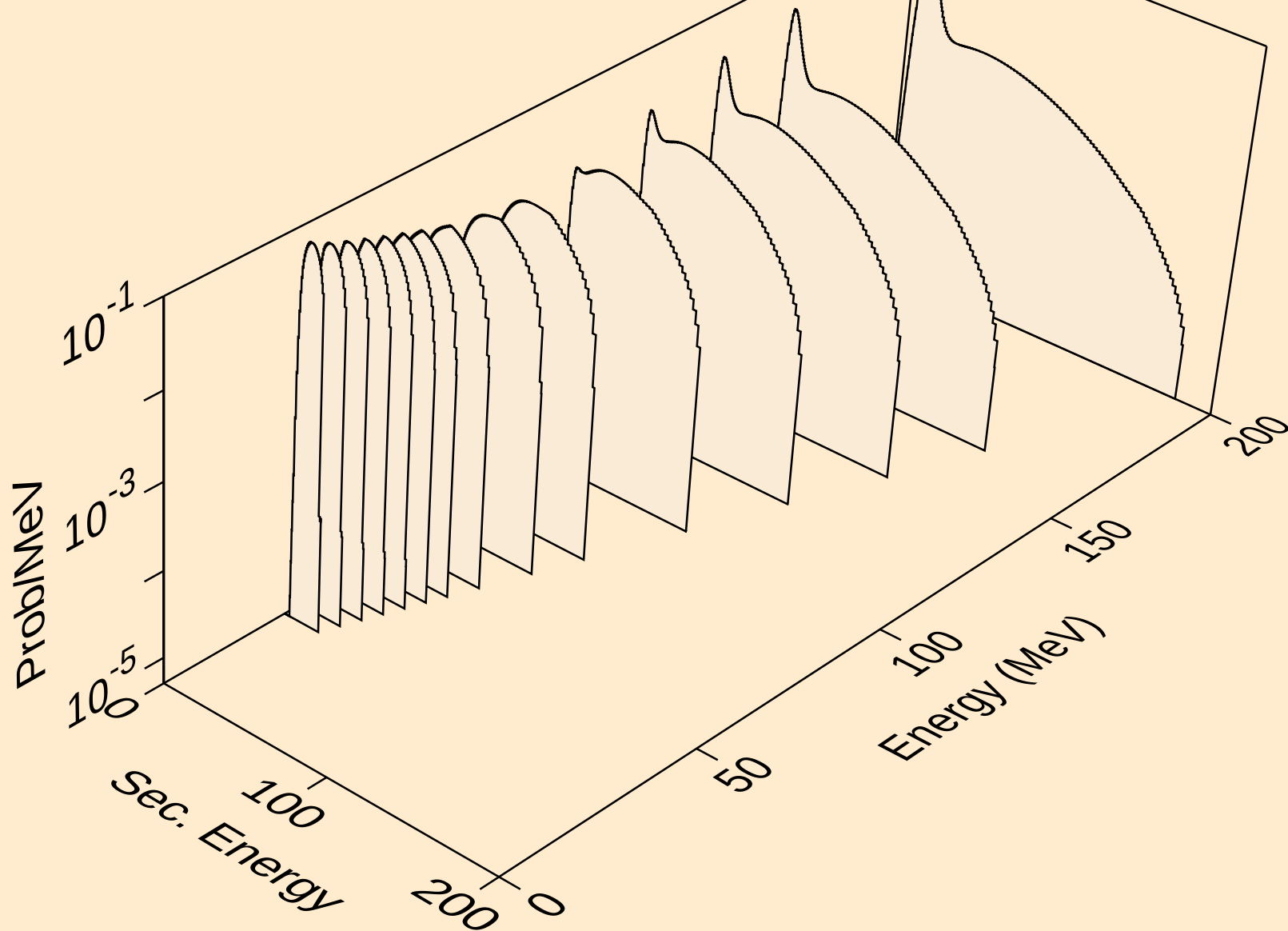
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deuterons from (n,pd)



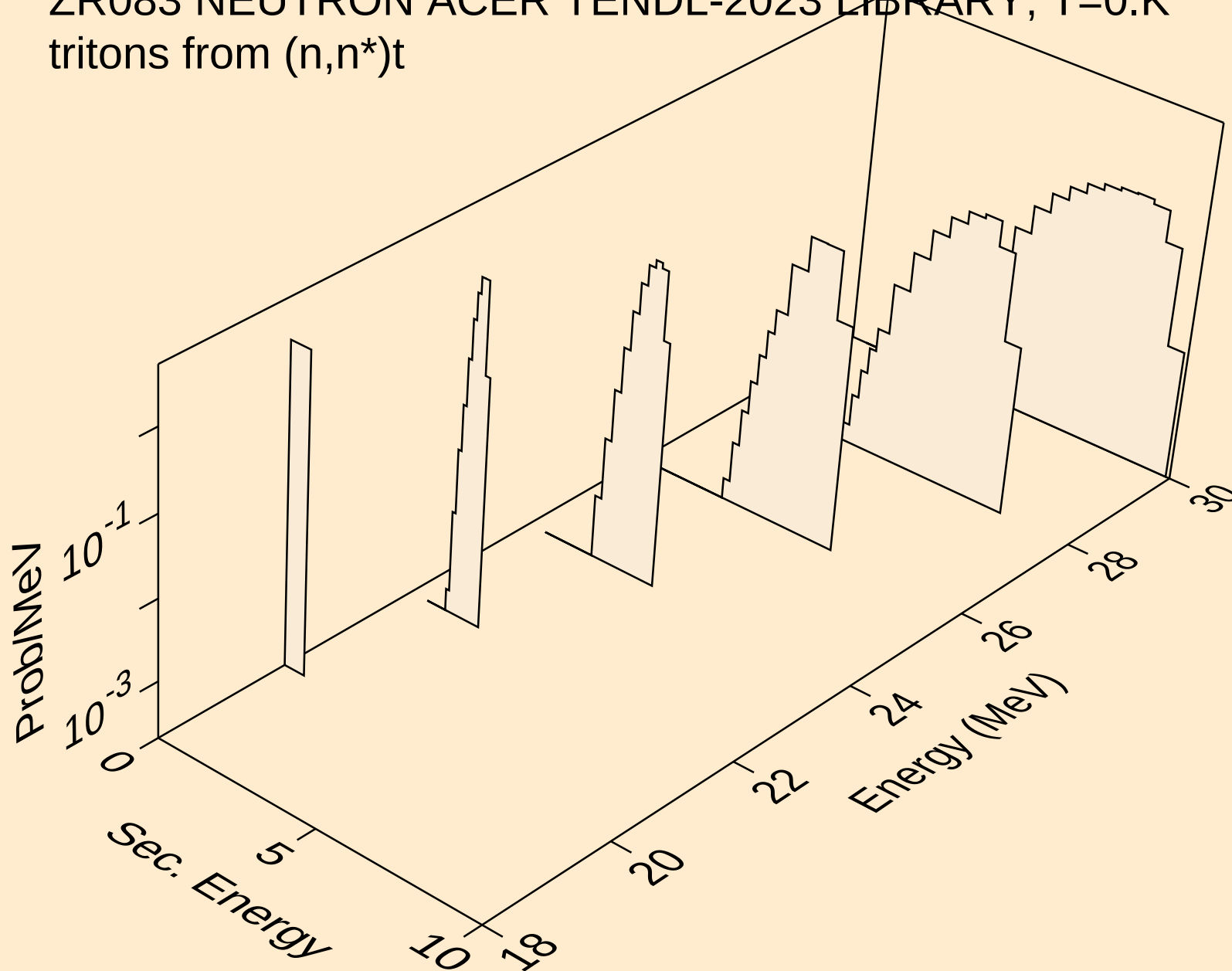
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deuterons from (n,da)



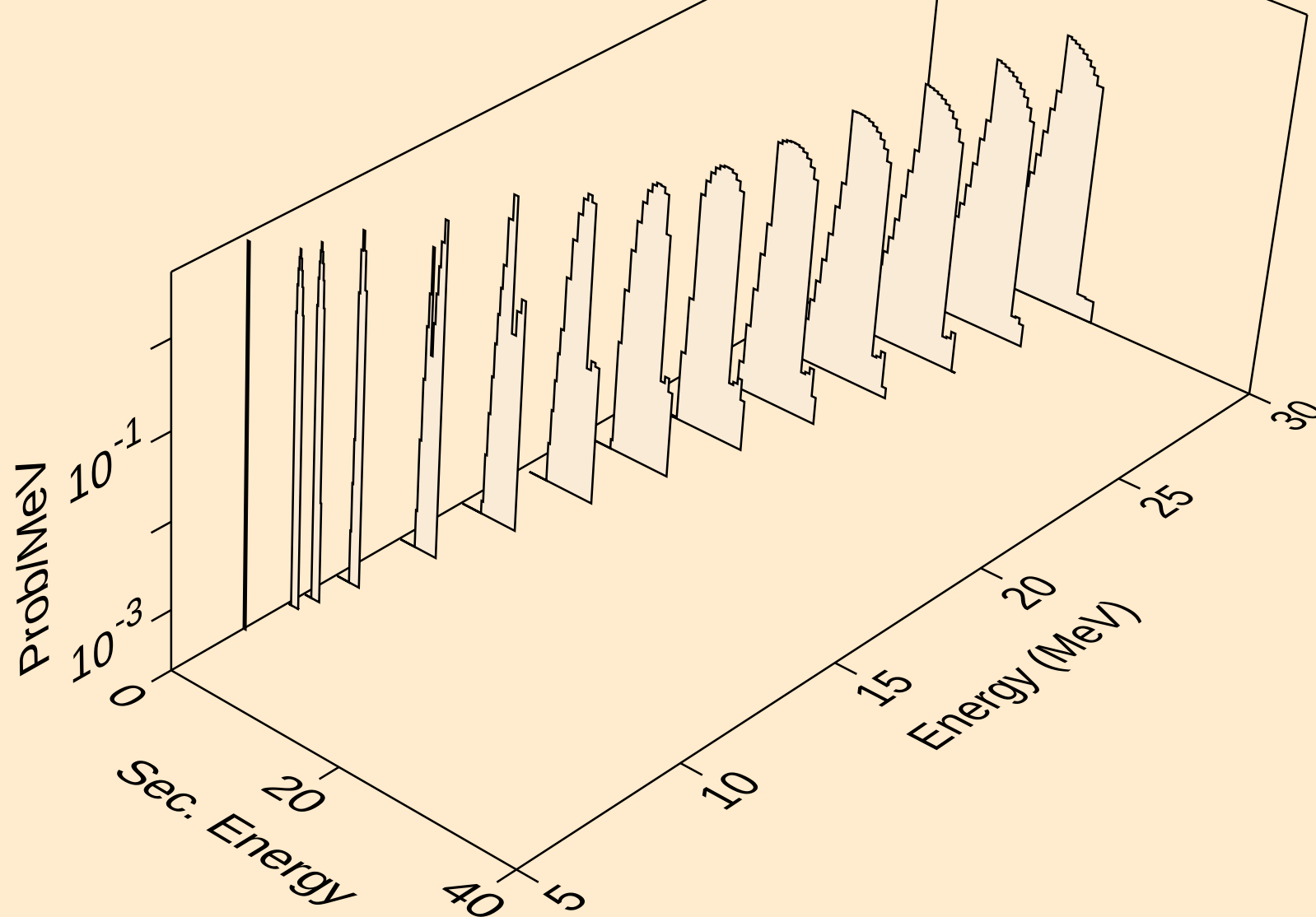
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tritons from (n,x)



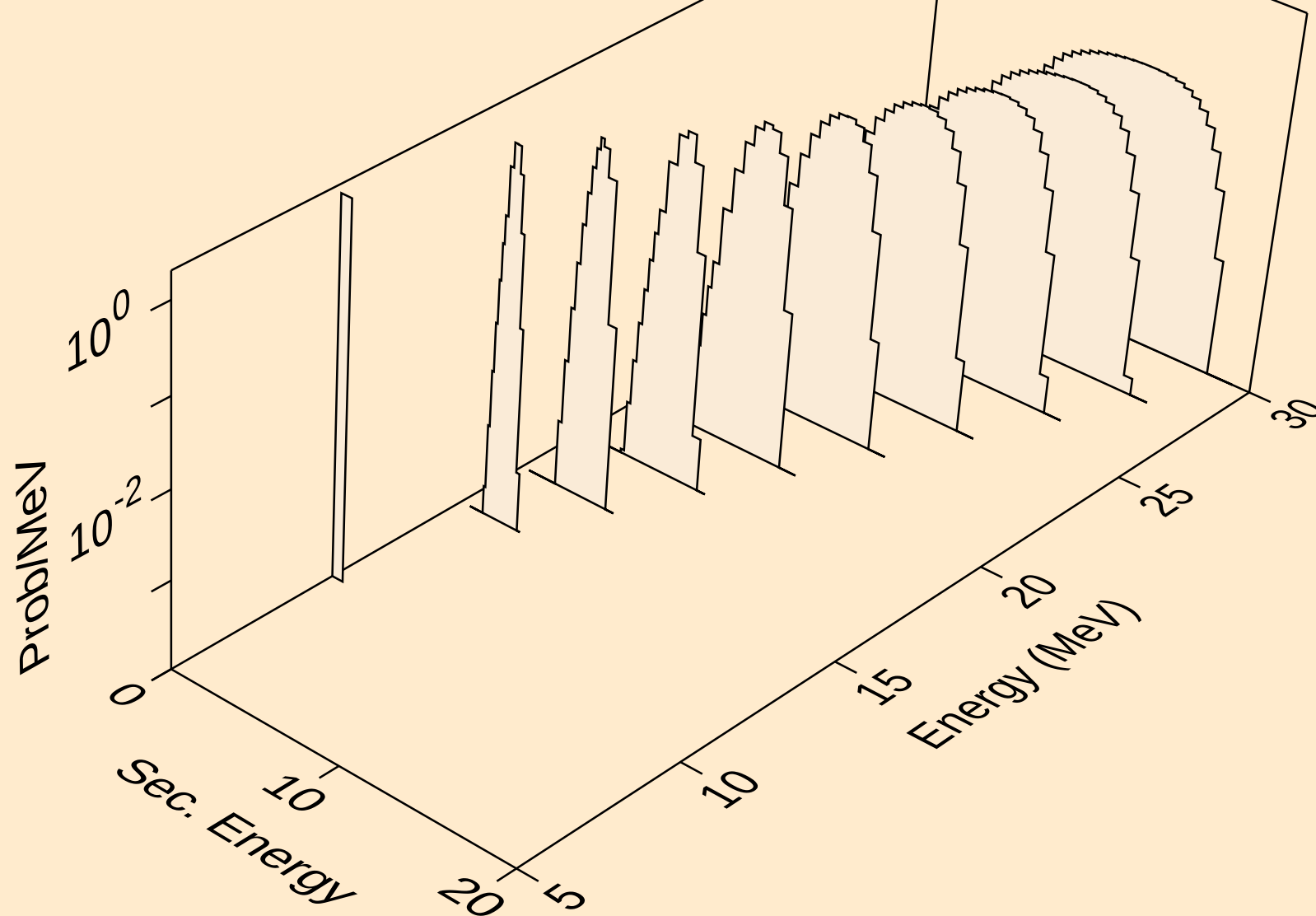
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tritons from (n,n*)t



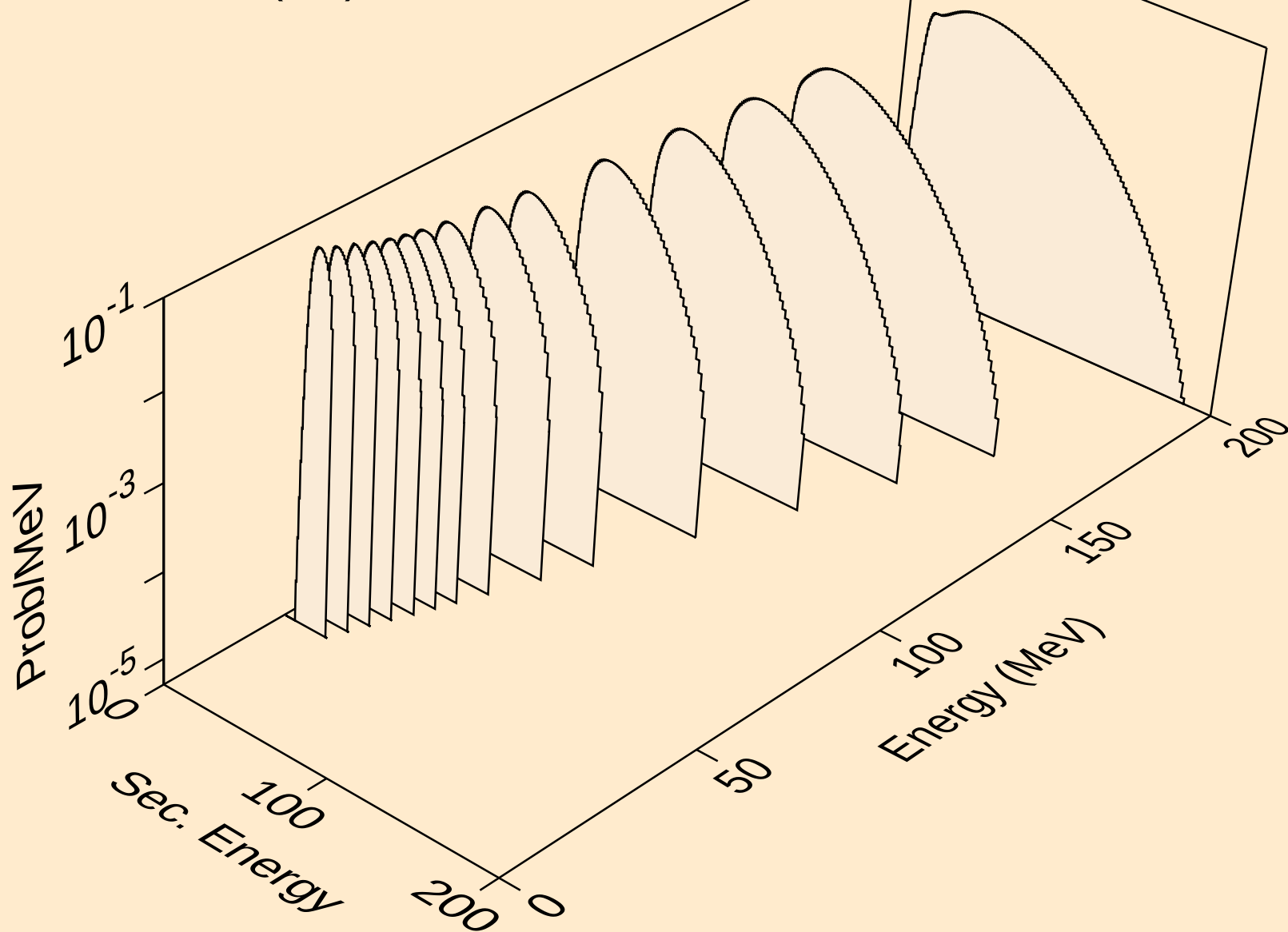
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tritons from (n,t)



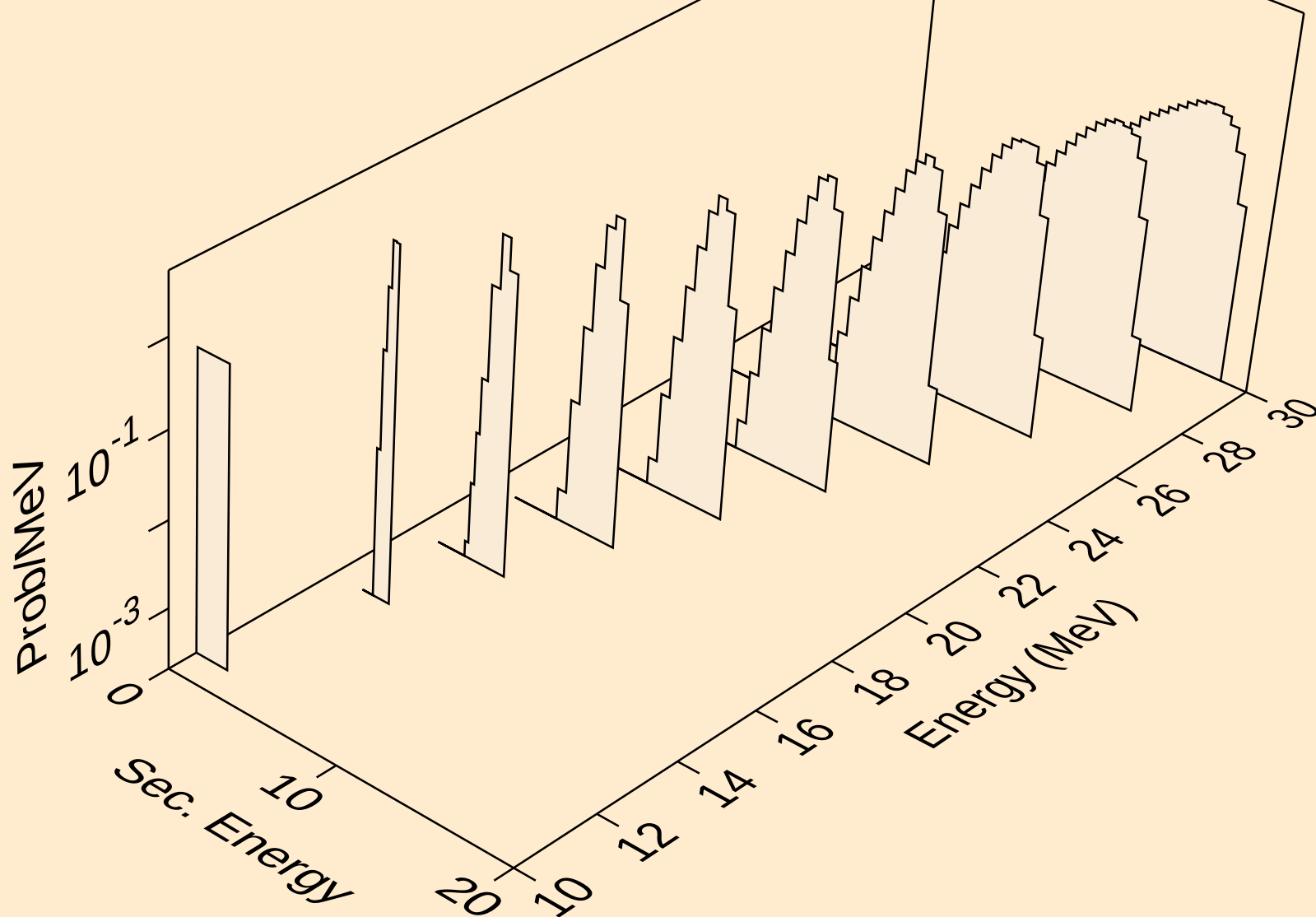
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tritons from (n,pt)



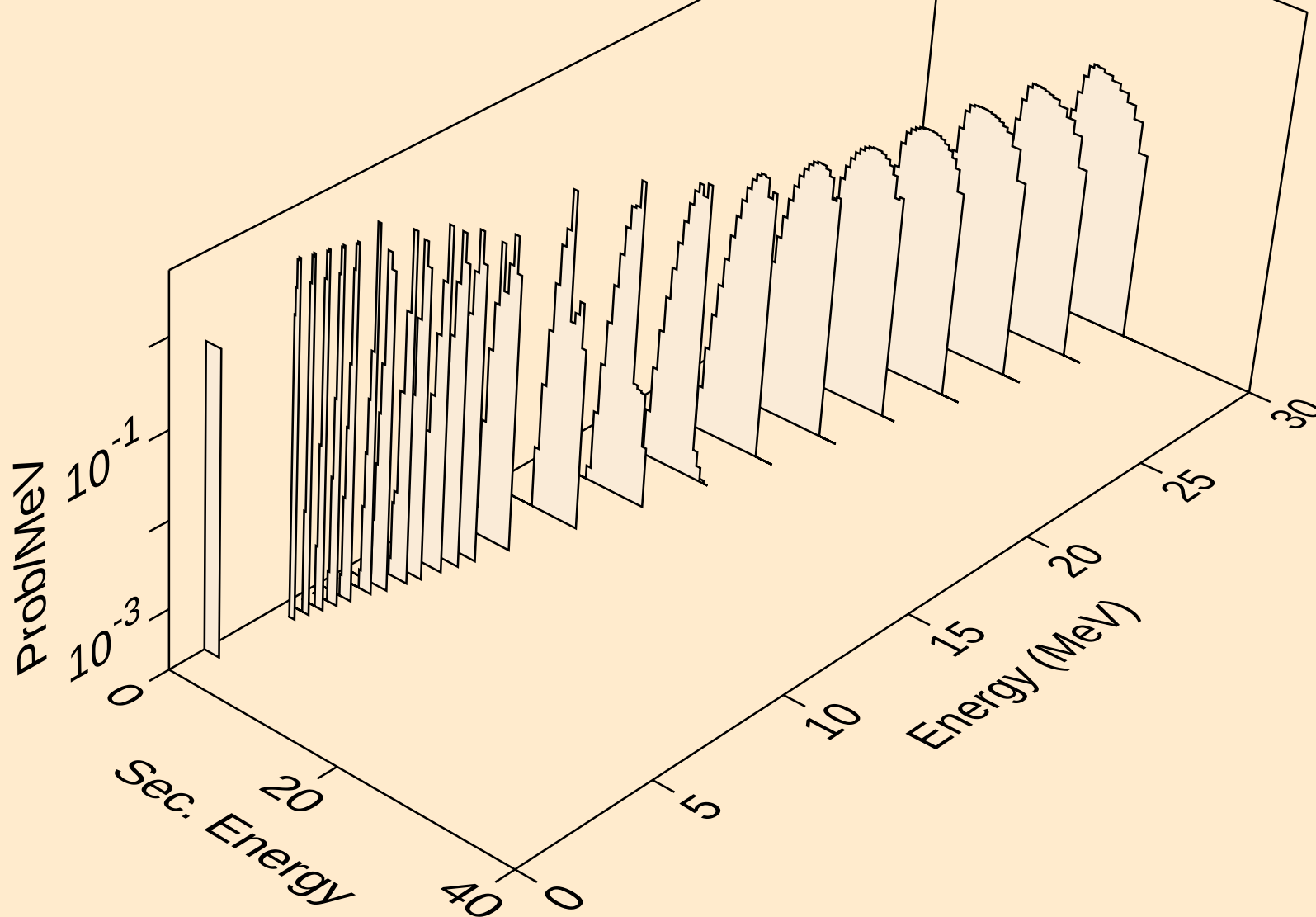
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he3s from (n,x)



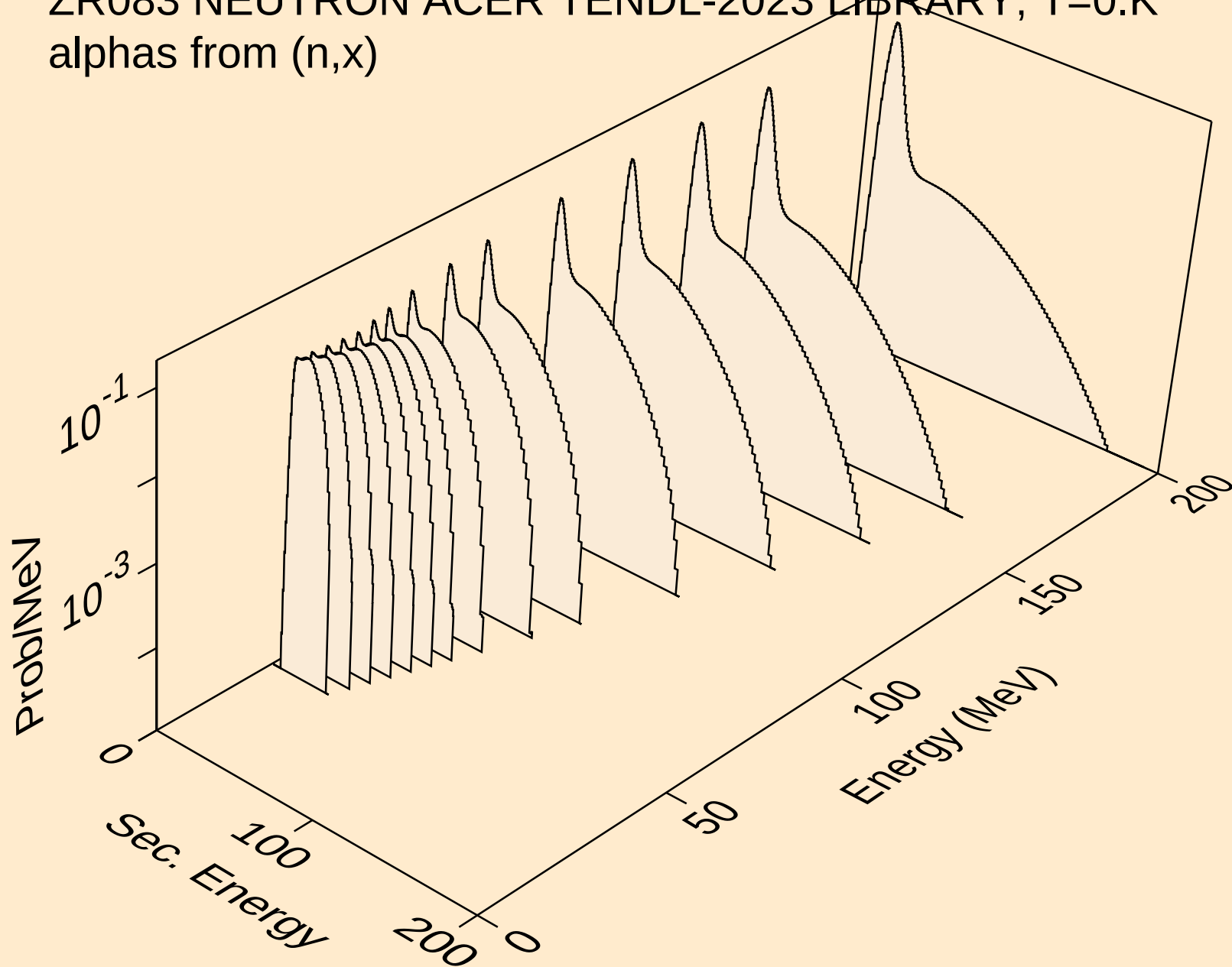
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he3s from (n,n*)he3



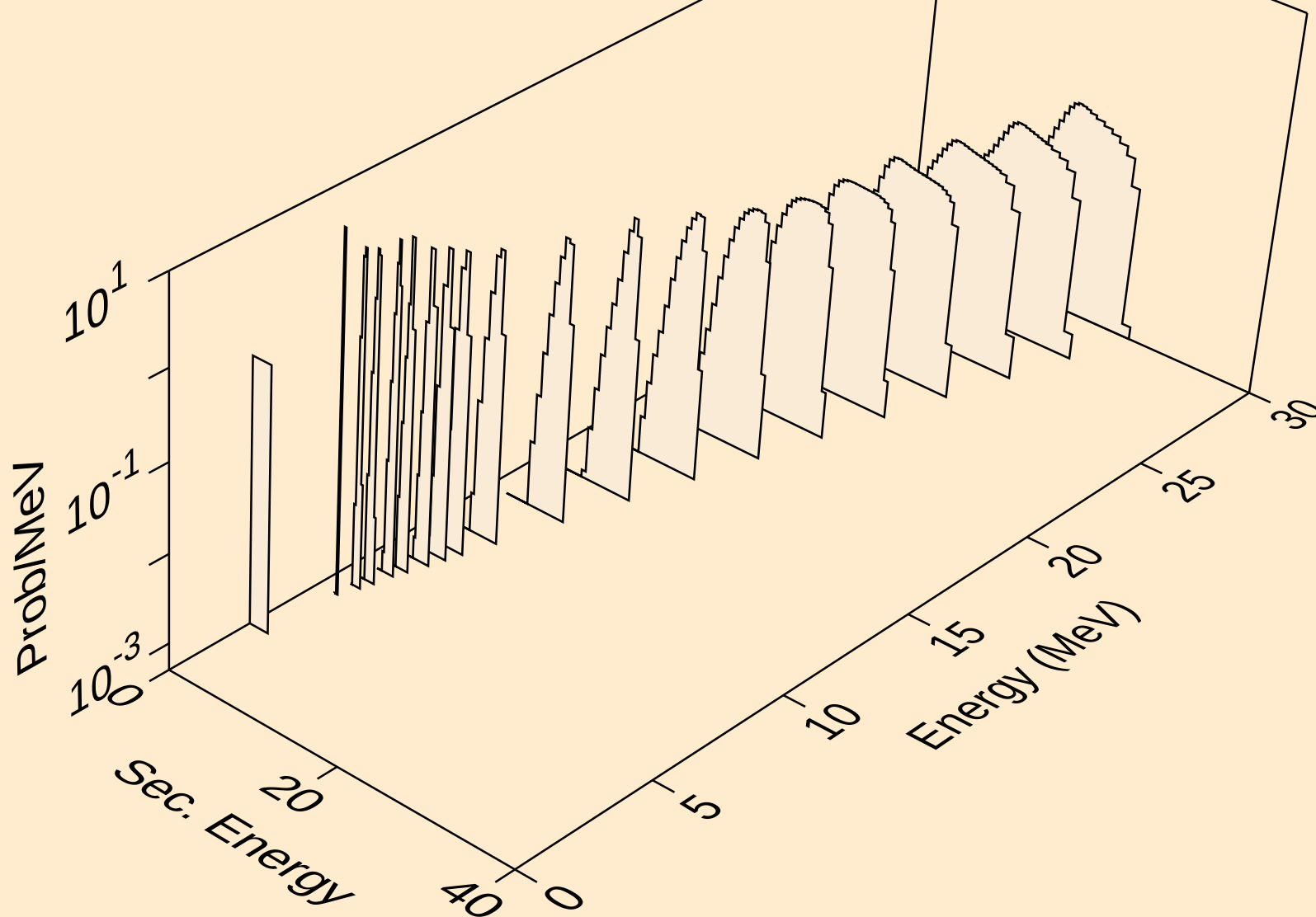
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he3s from (n,he3)



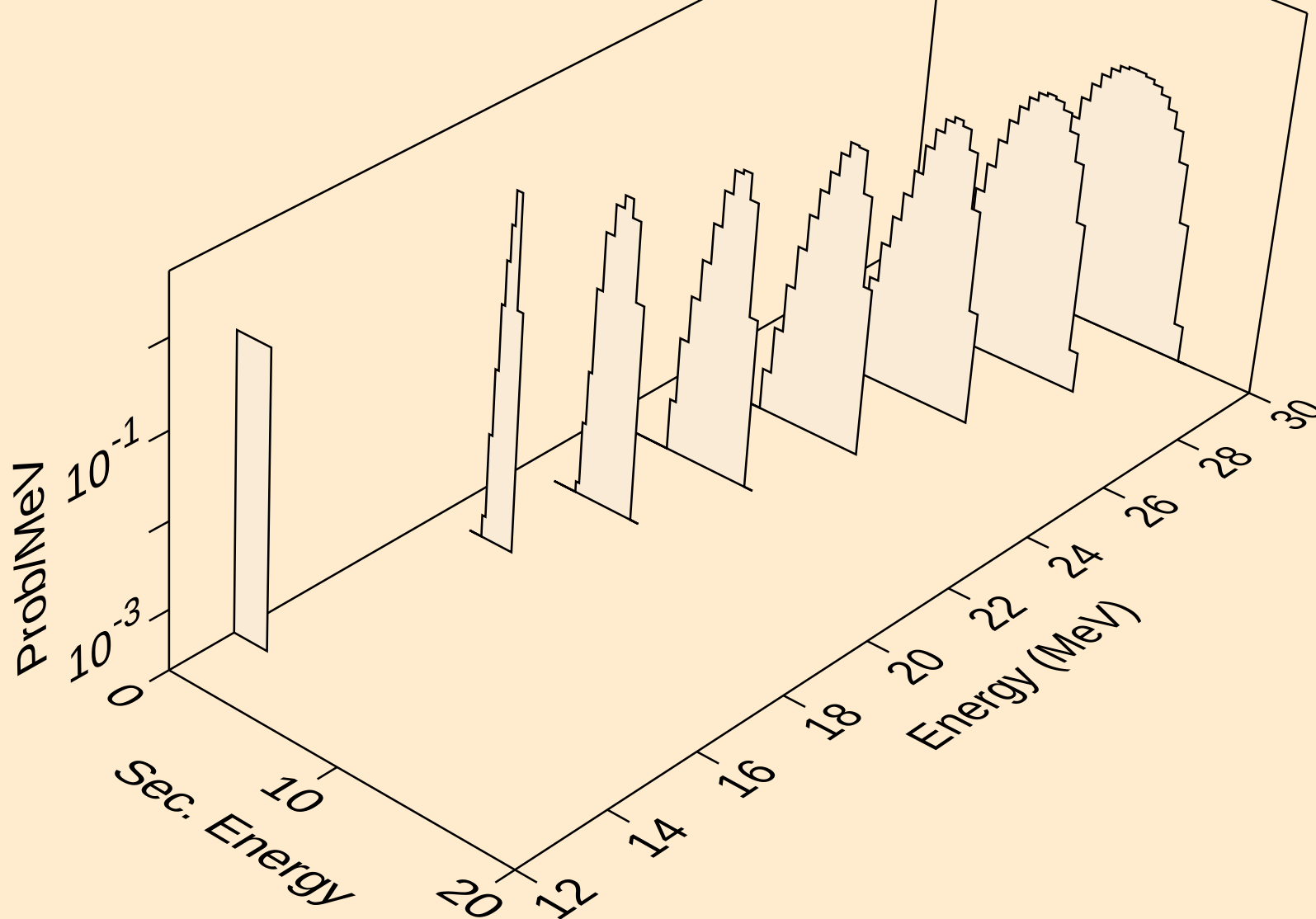
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alphas from (n,x)



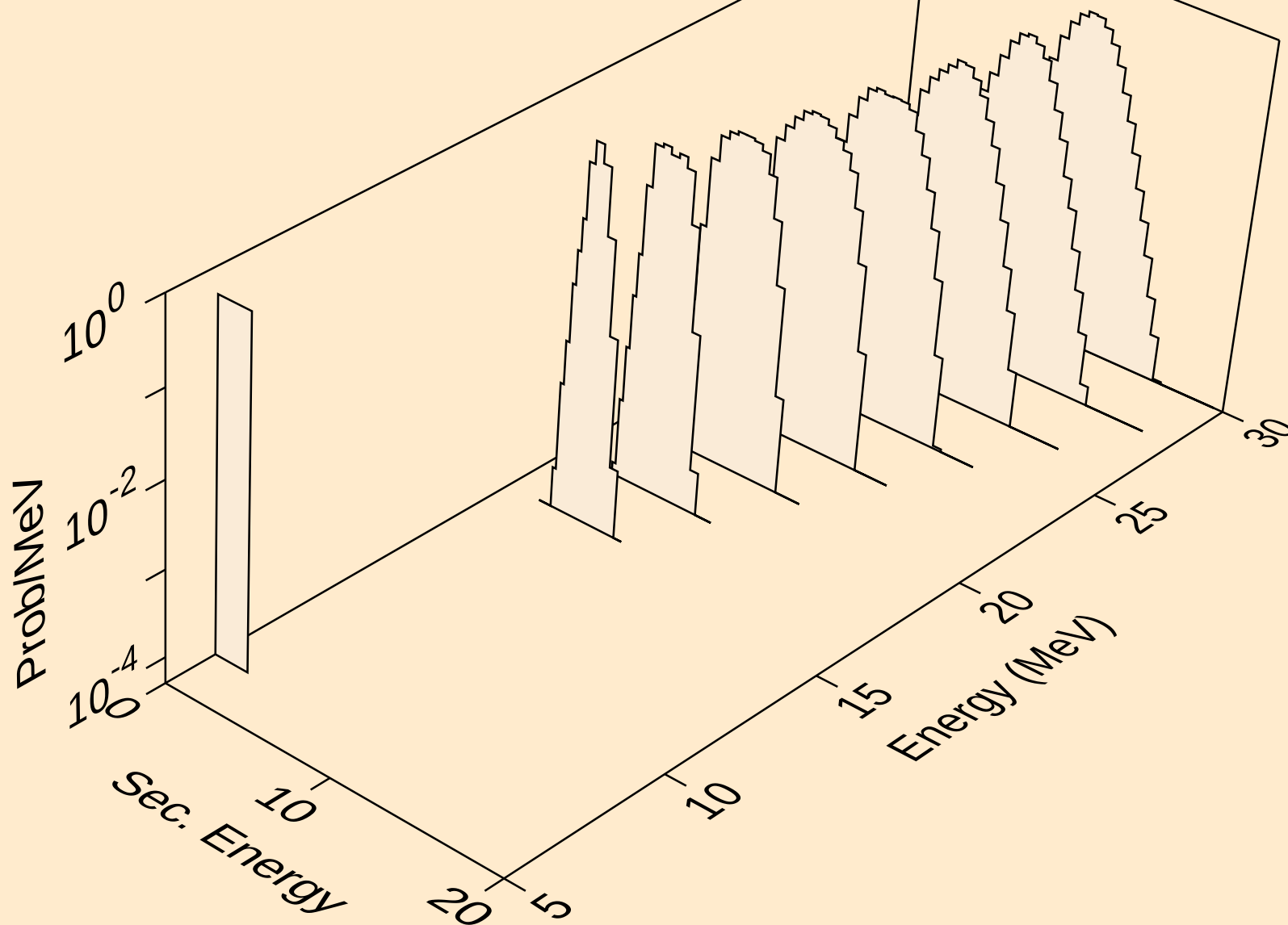
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,n*)a



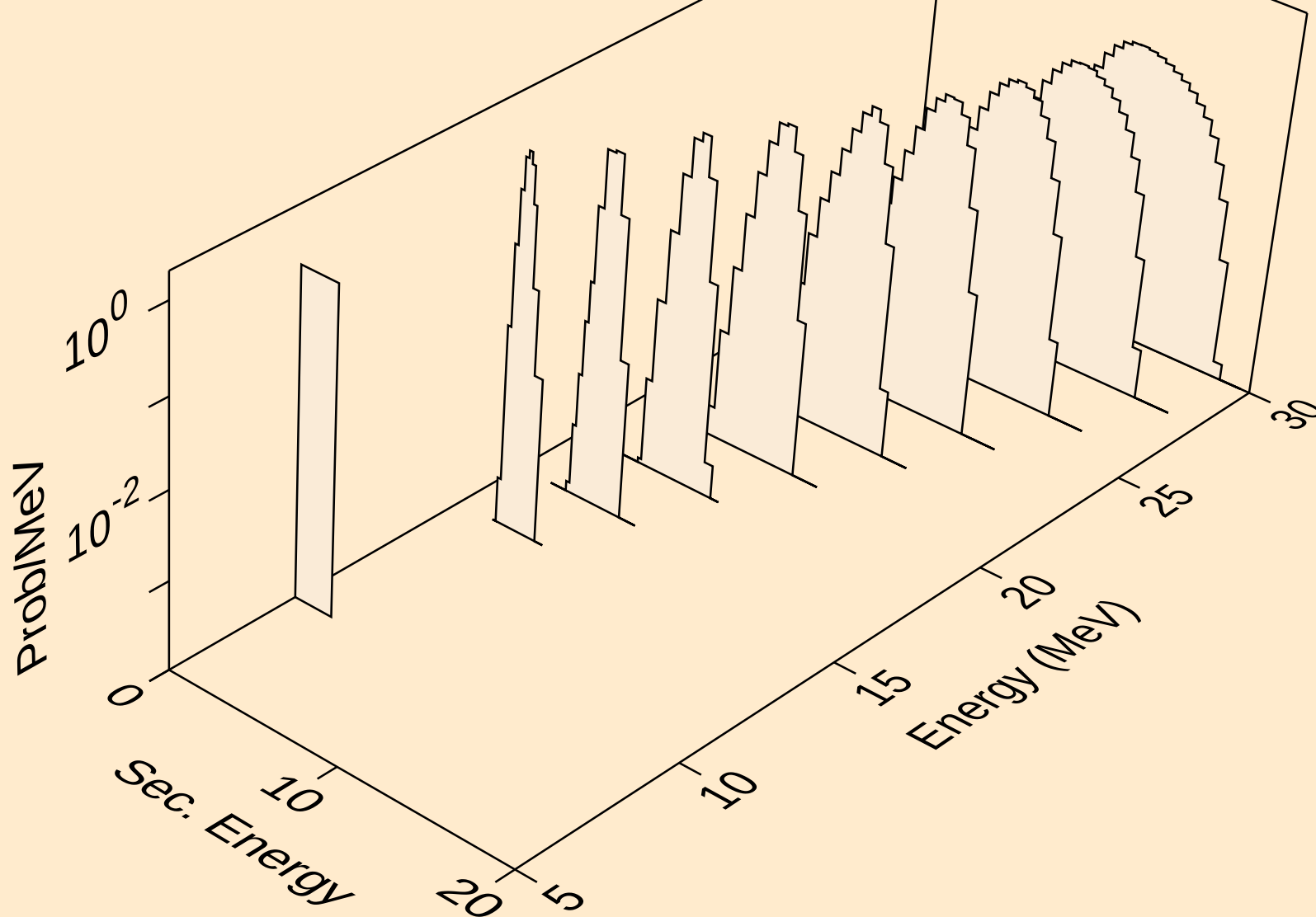
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2n)a



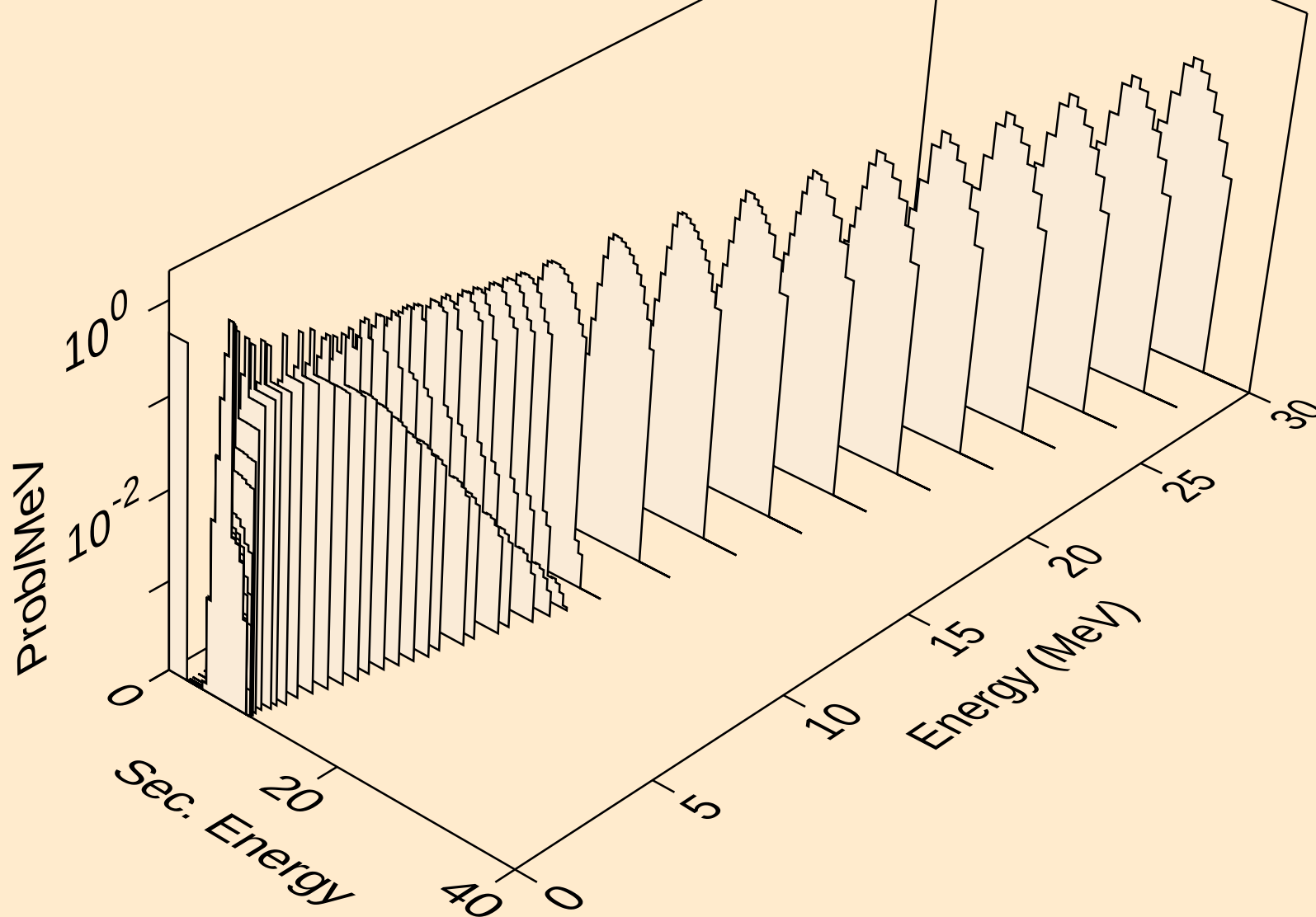
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alphas from (n,n*)2a



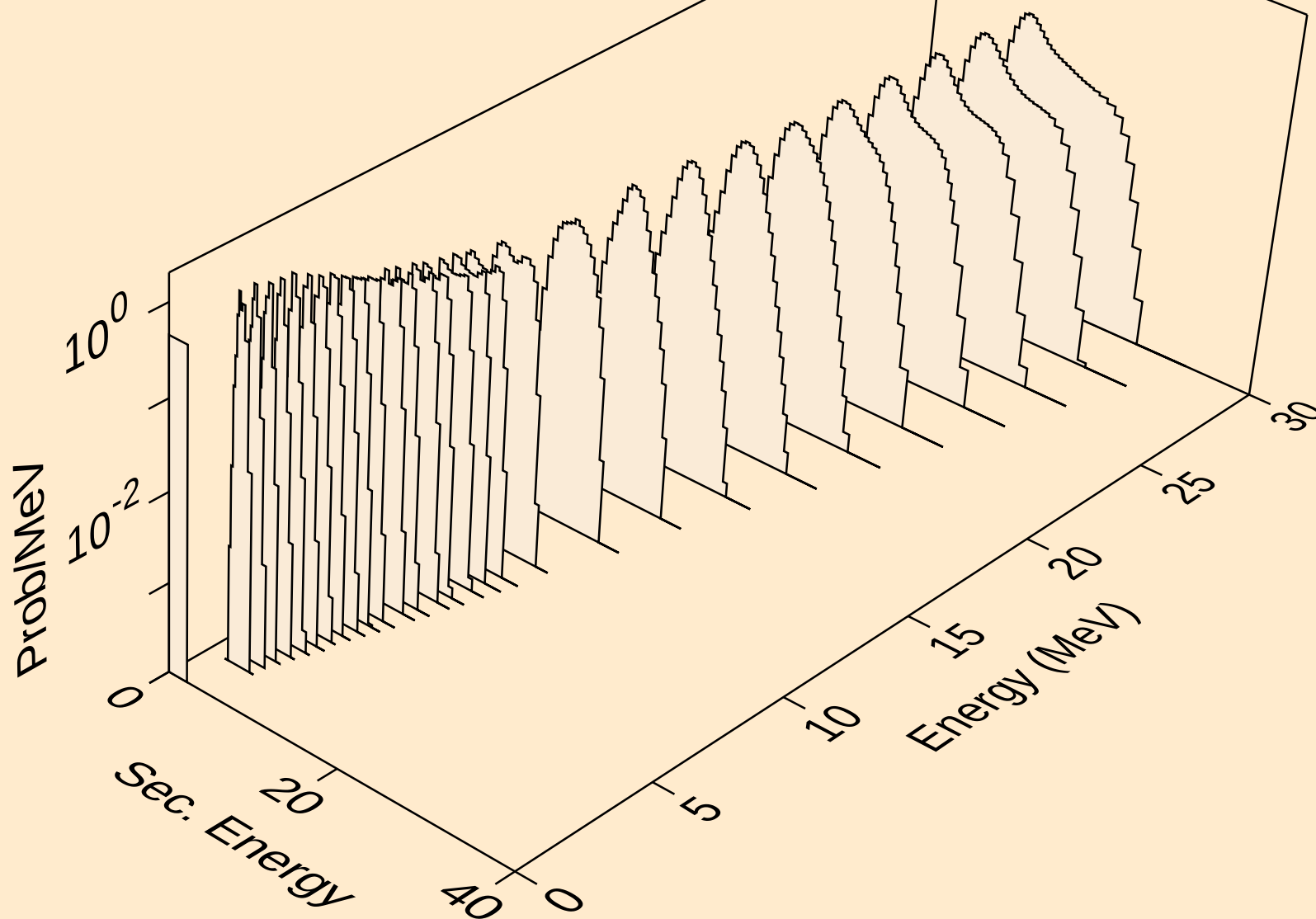
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alphas from (n,npa)



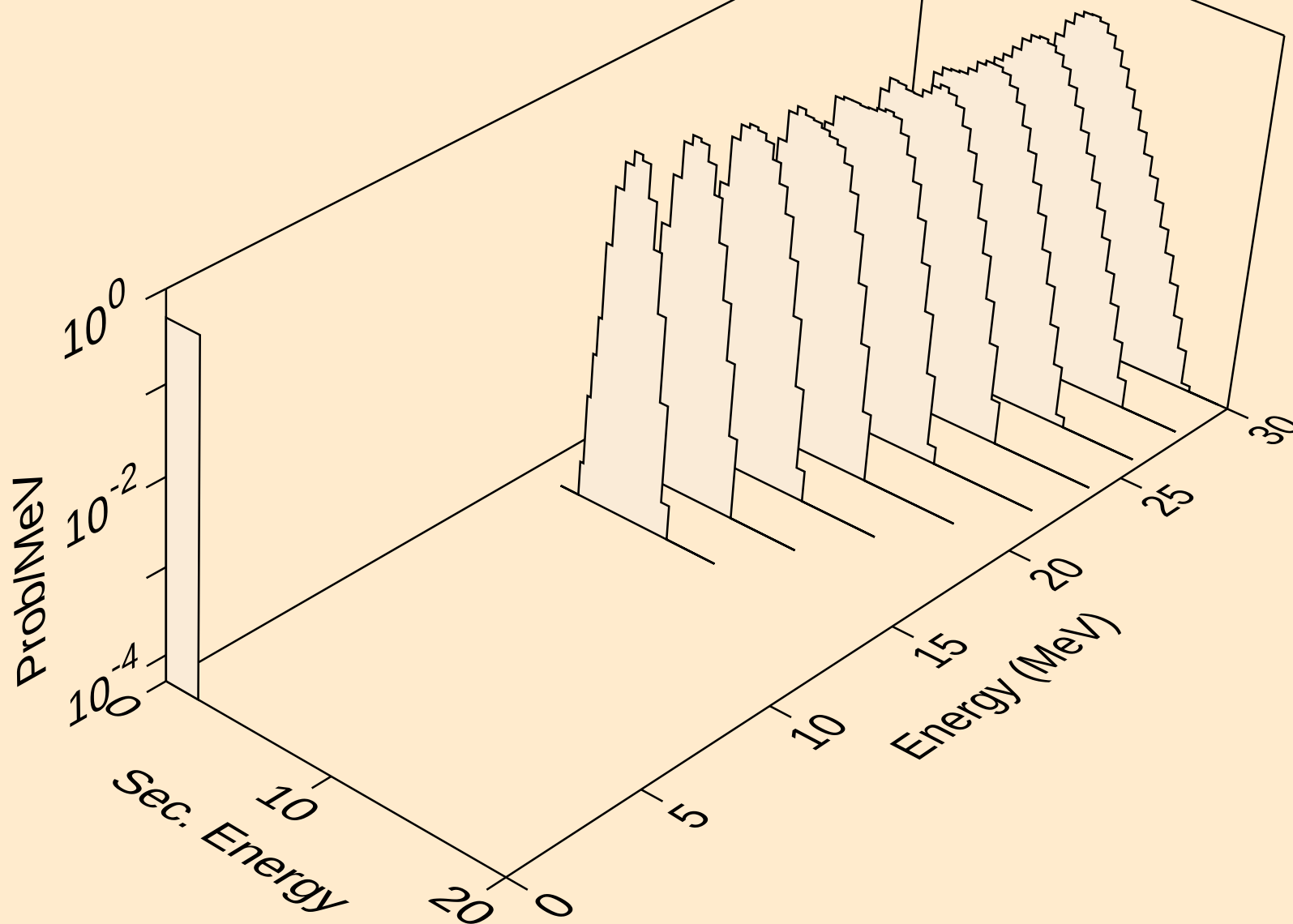
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alphas from (n,a)



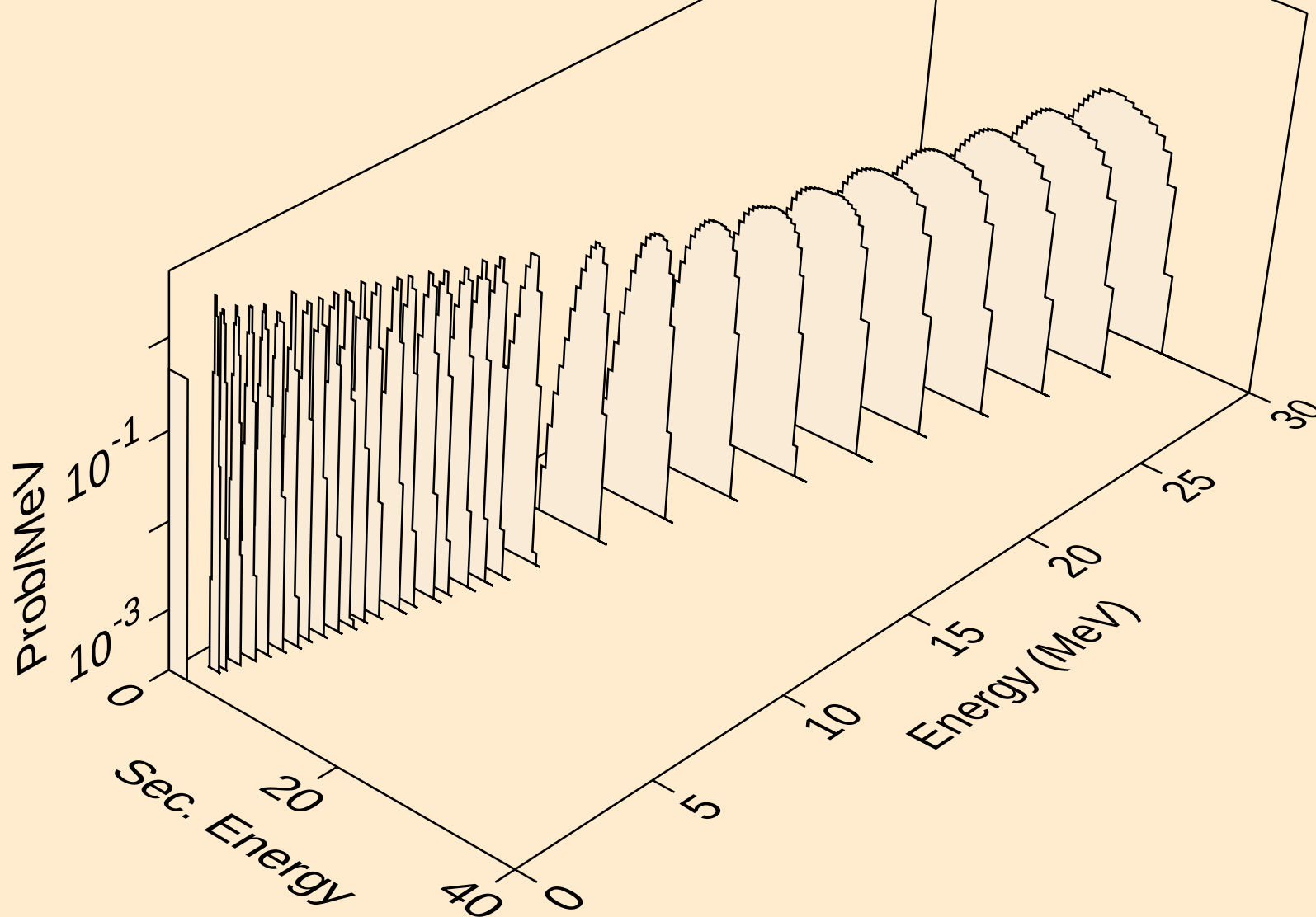
ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2a)



ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,3a)



ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,pa)



ZR083 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,da)

