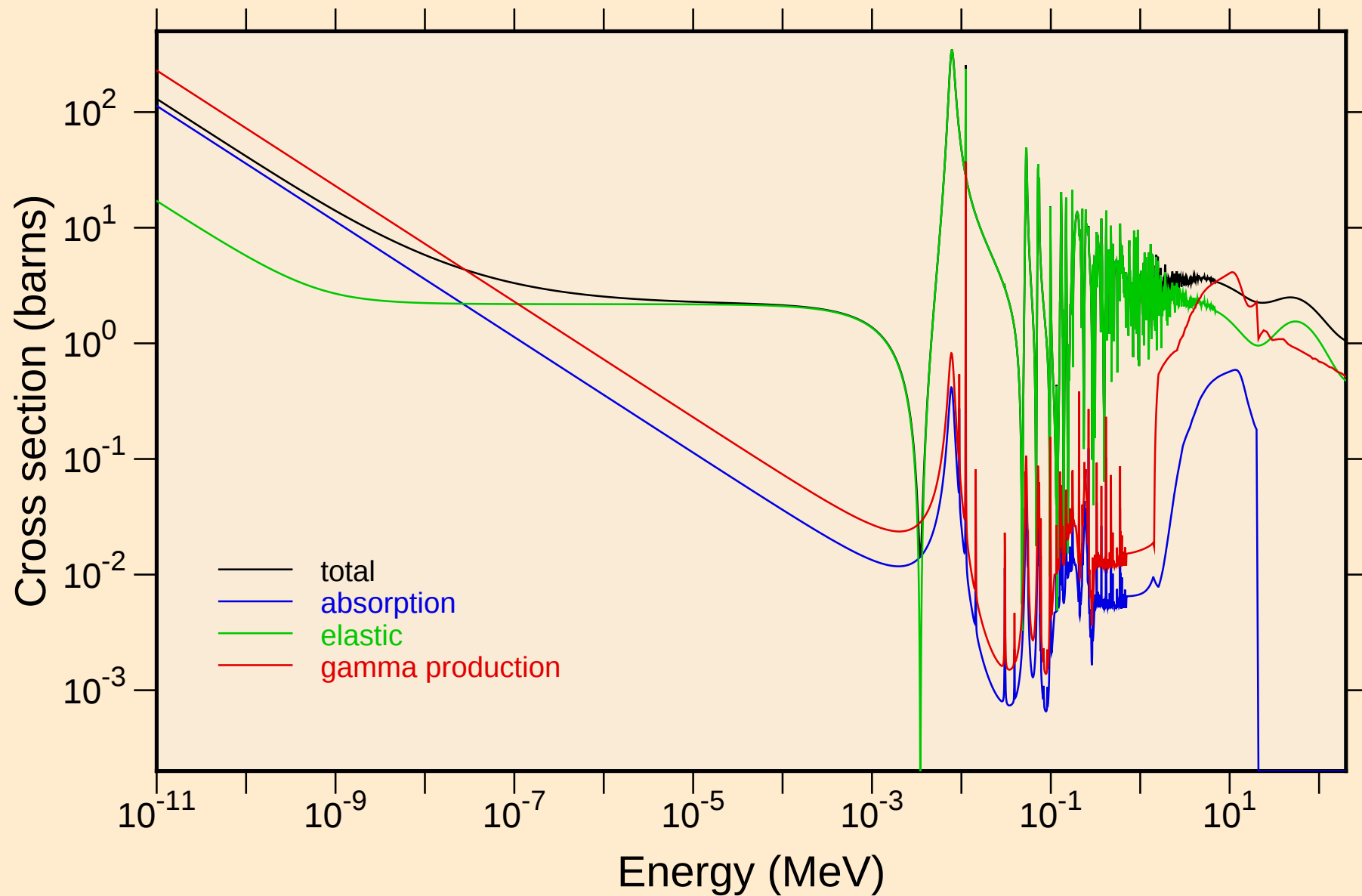
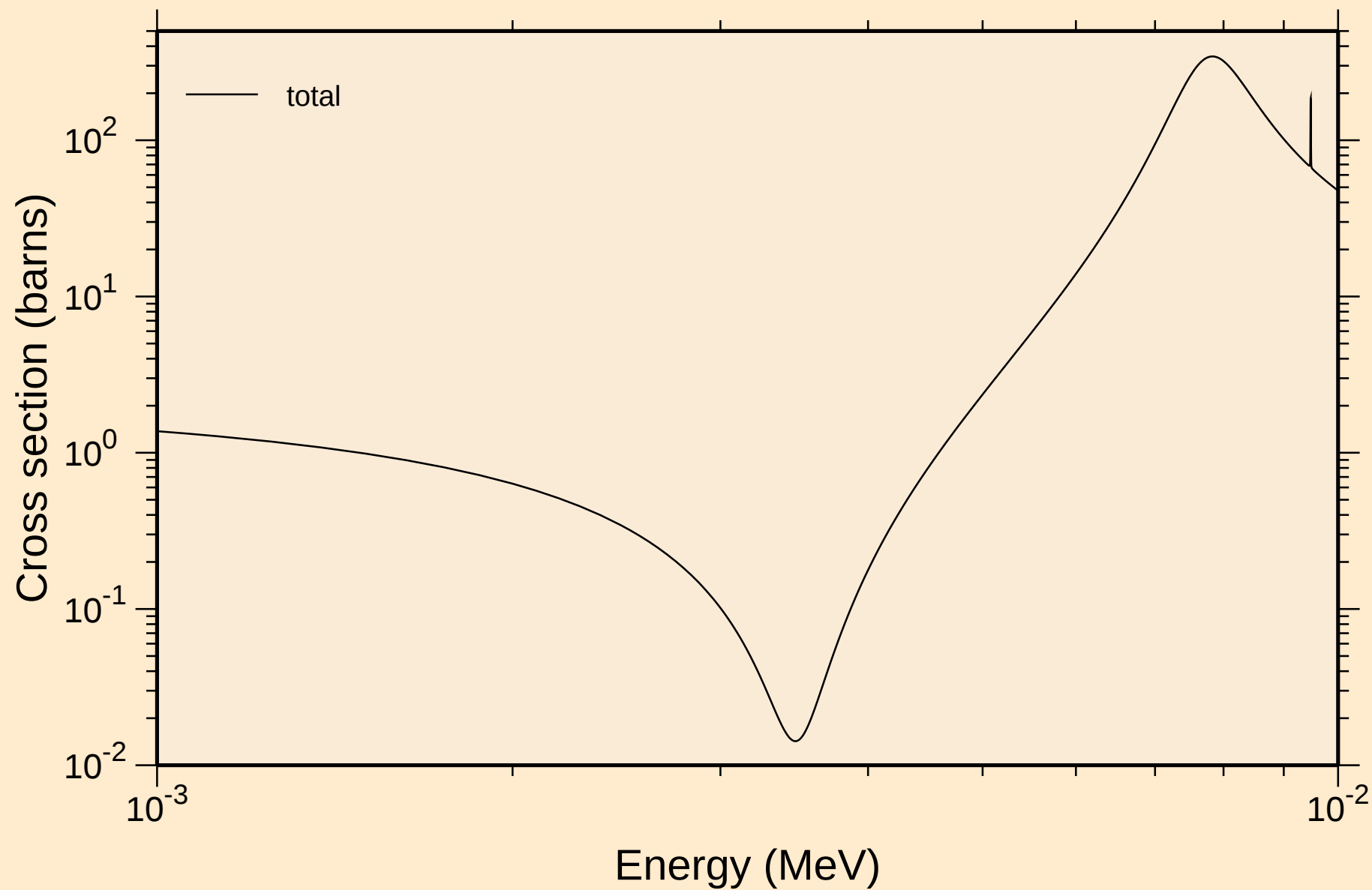


JEFF-3.1 FE-54

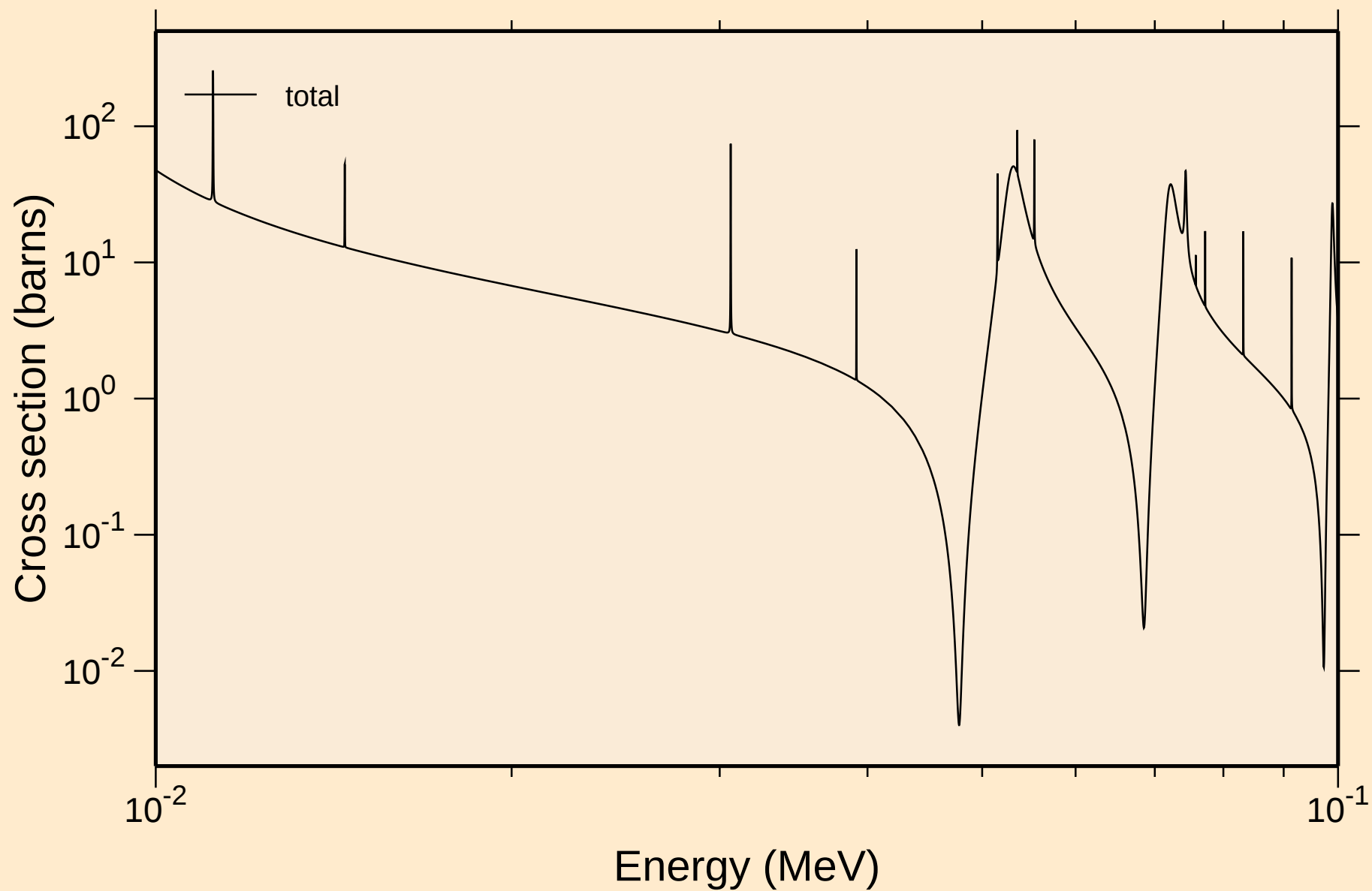
Principal cross sections



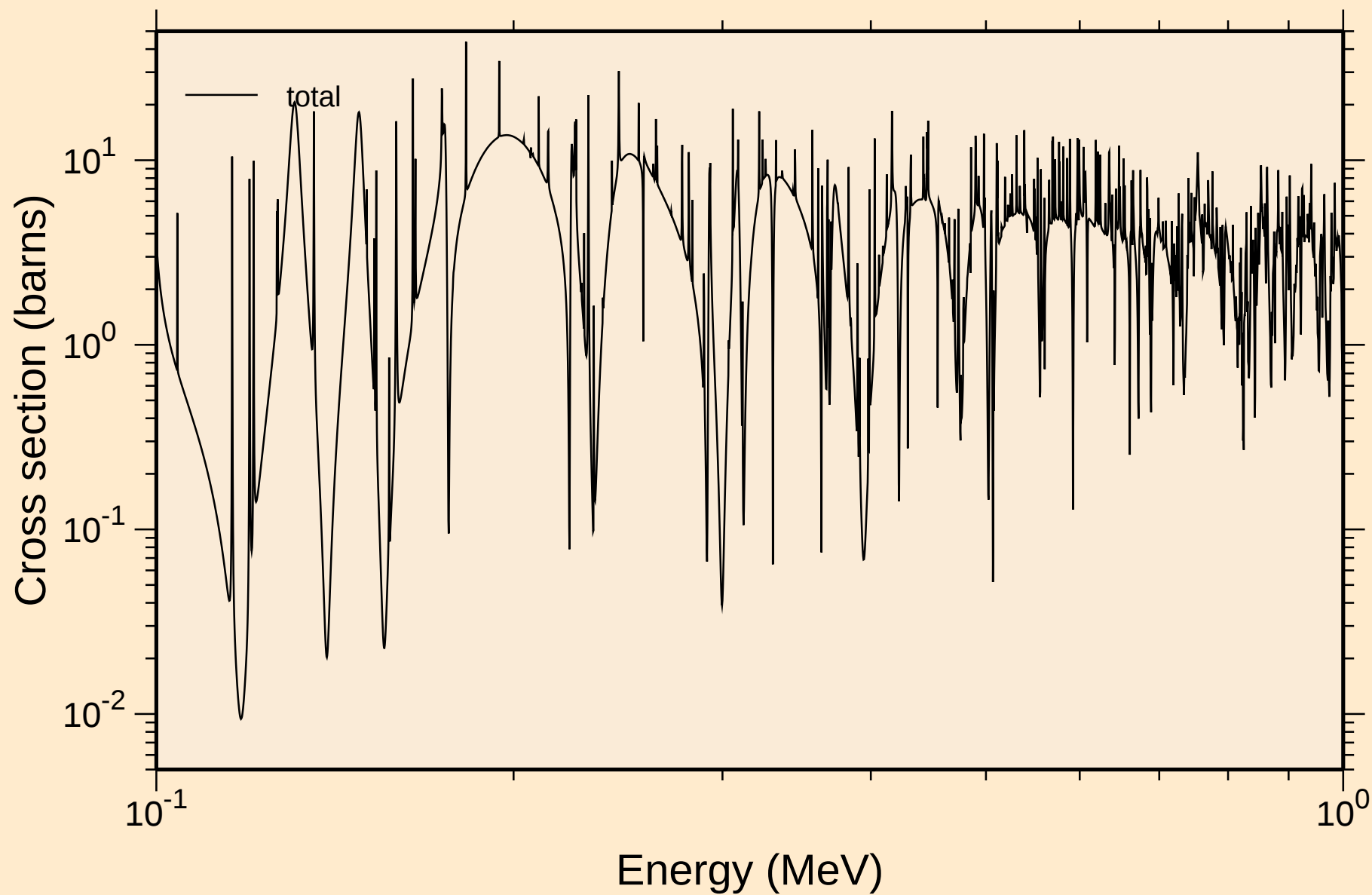
JEFF-3.1 FE-54
resonance total cross section



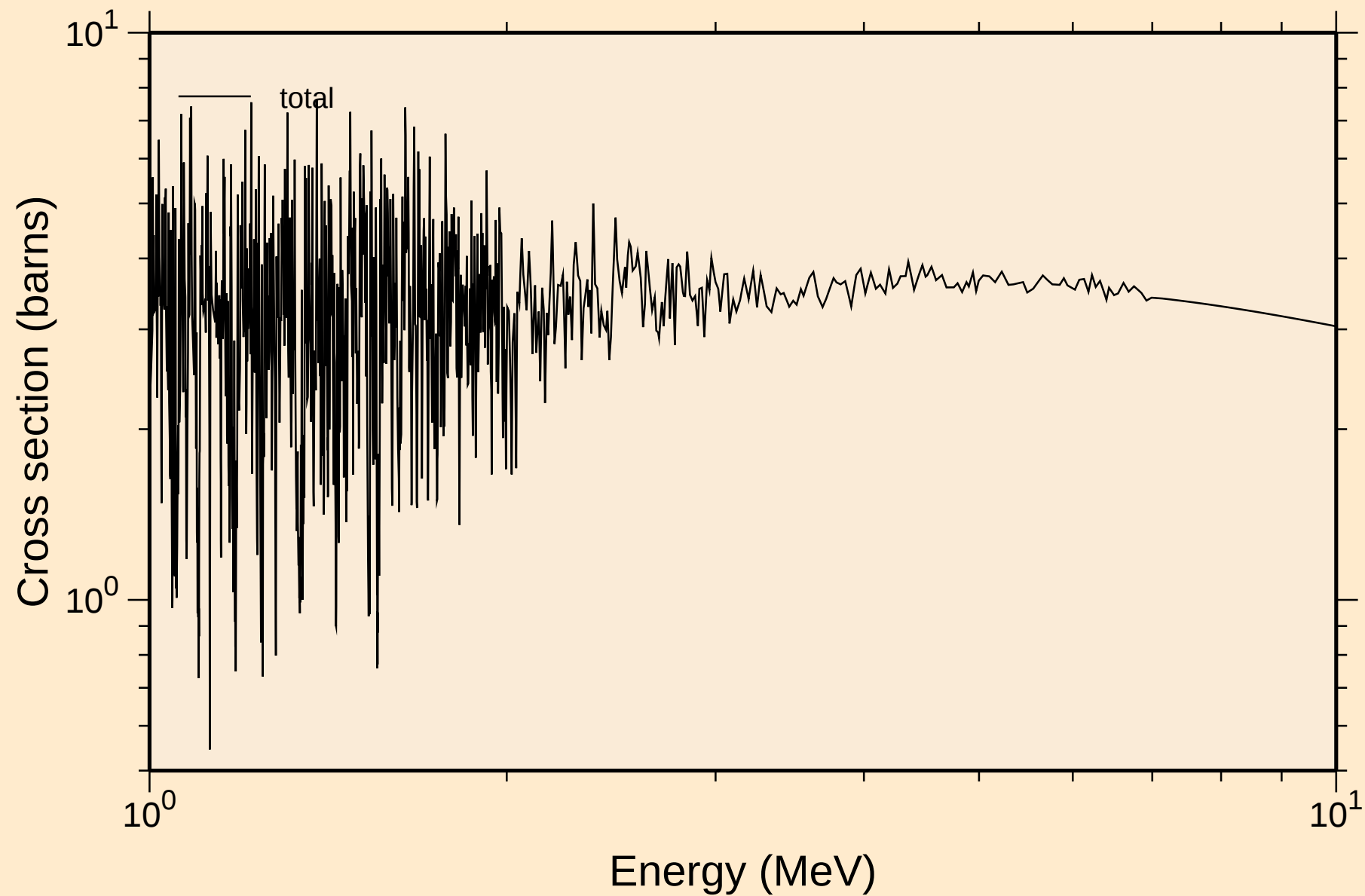
JEFF-3.1 FE-54
resonance total cross section



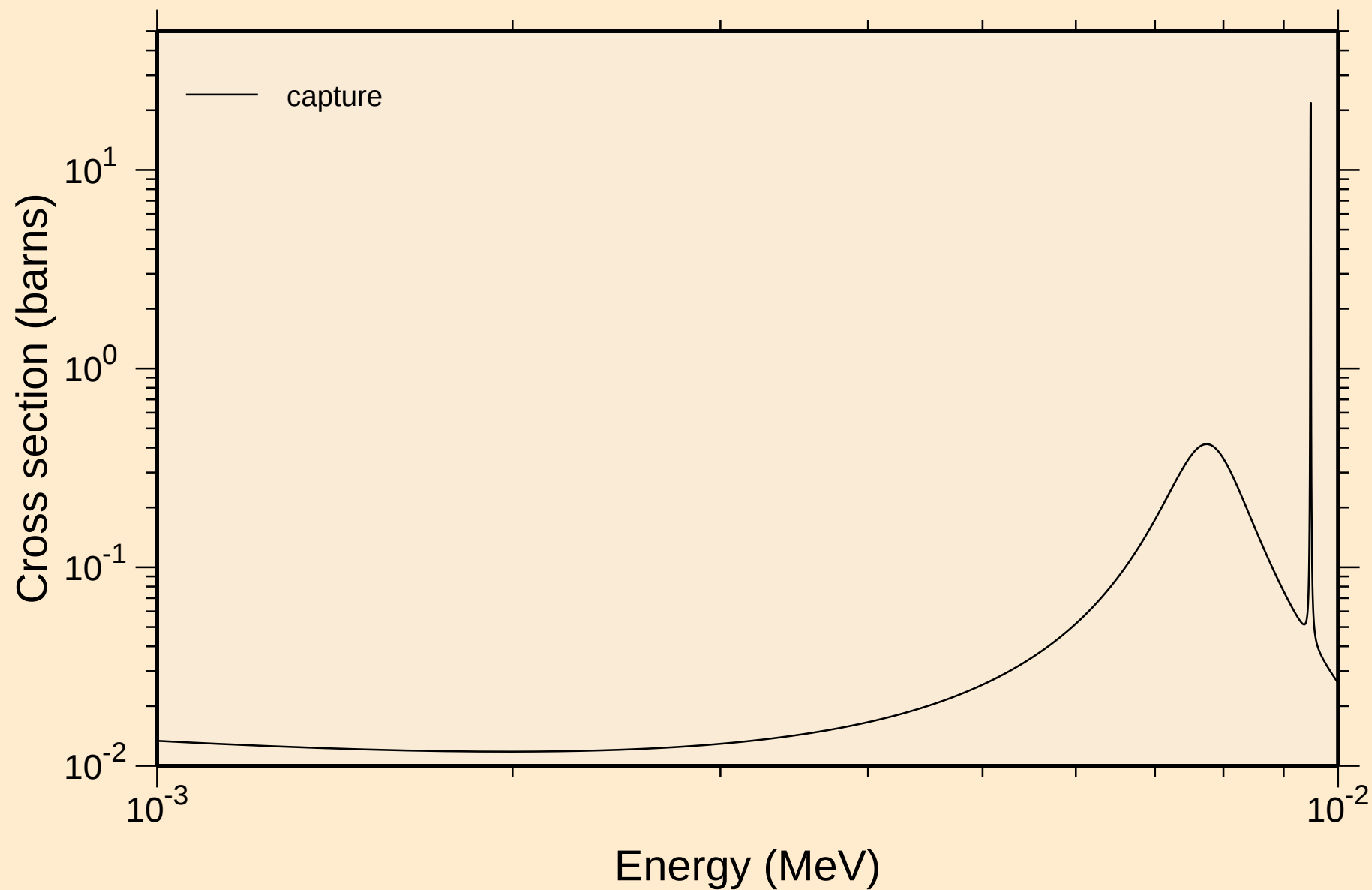
JEFF-3.1 FE-54
resonance total cross section



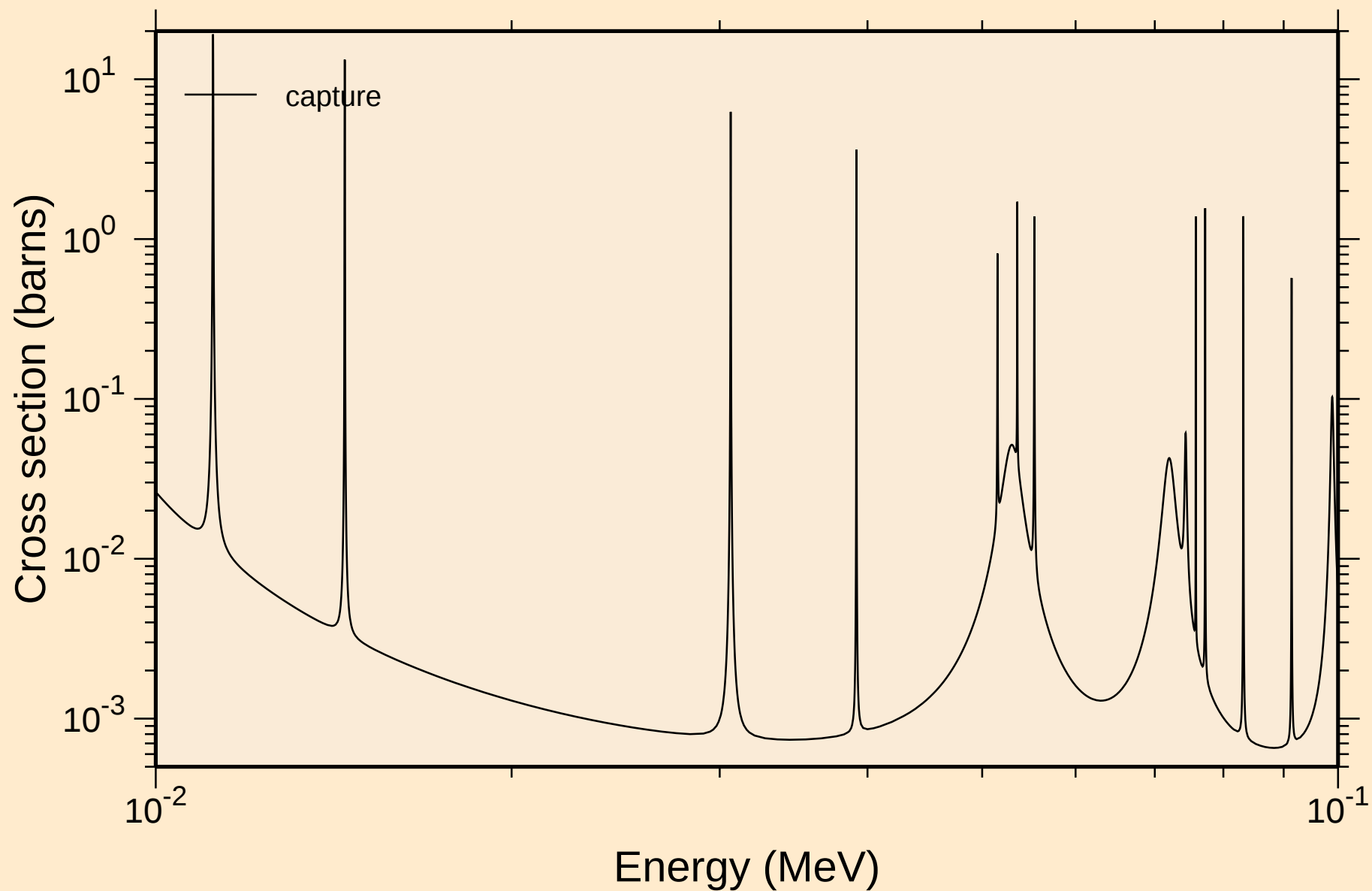
JEFF-3.1 FE-54
resonance total cross section



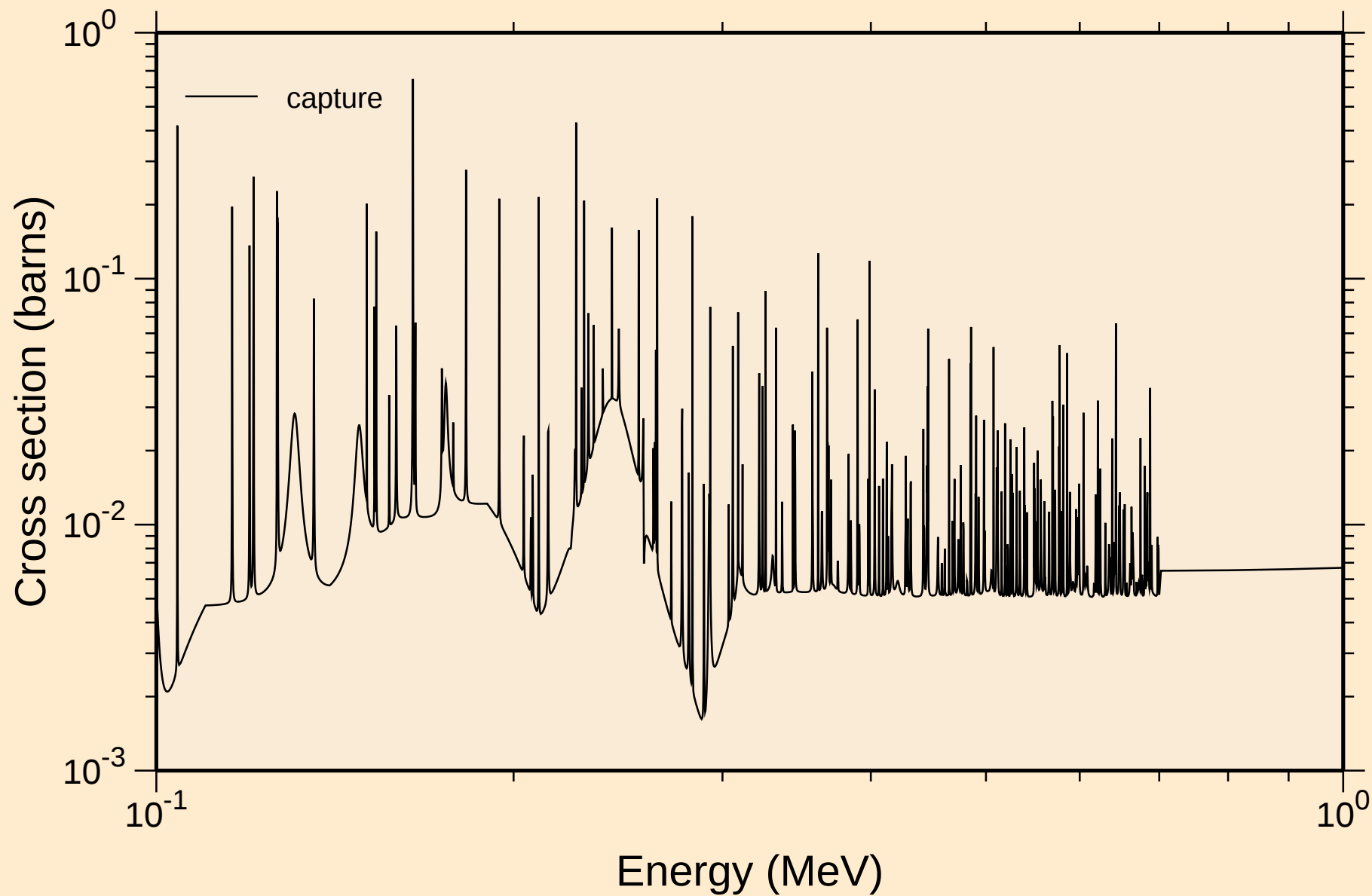
JEFF-3.1 FE-54 resonance absorption cross sections



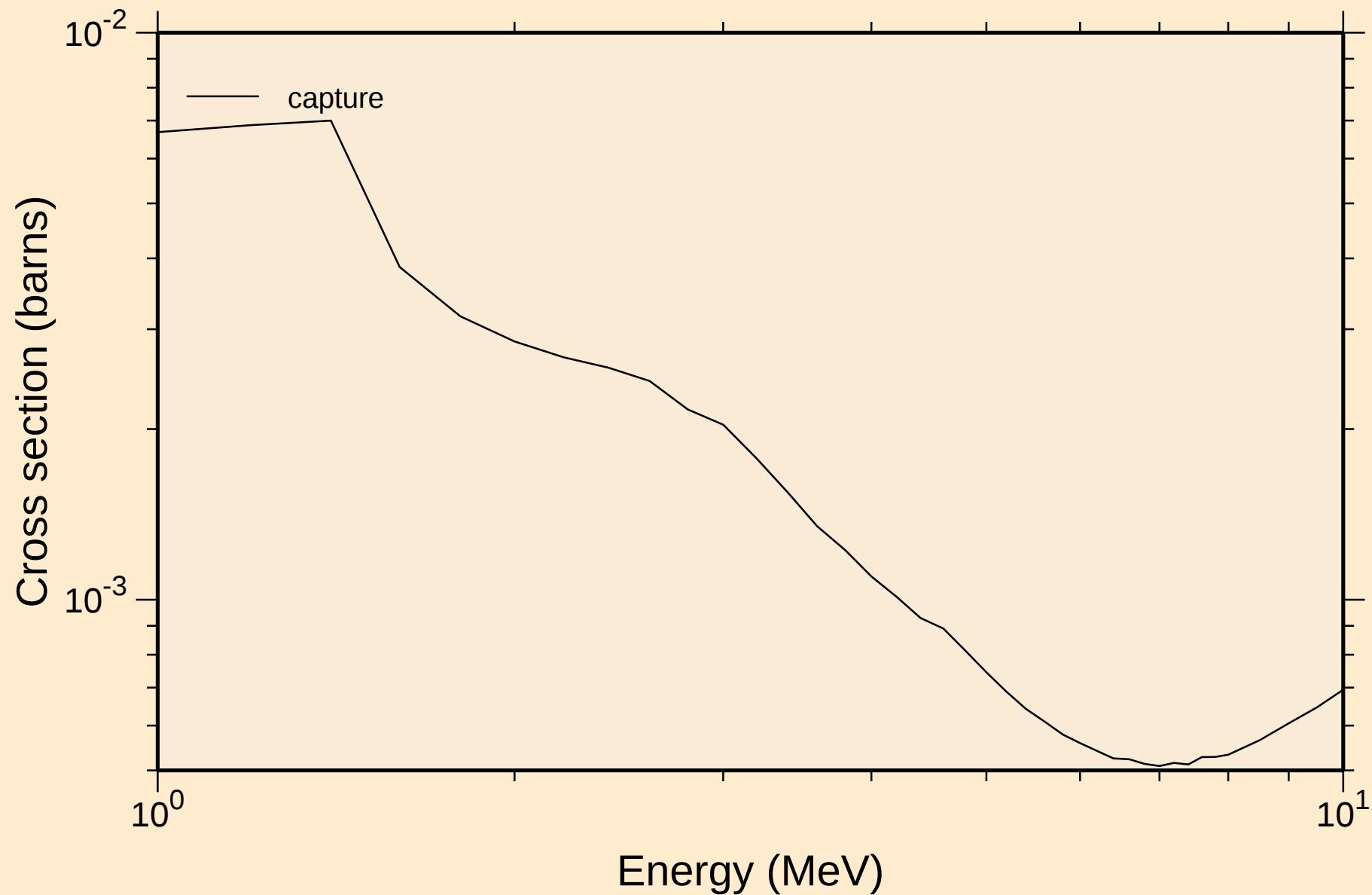
JEFF-3.1 FE-54 resonance absorption cross sections



JEFF-3.1 FE-54 resonance absorption cross sections

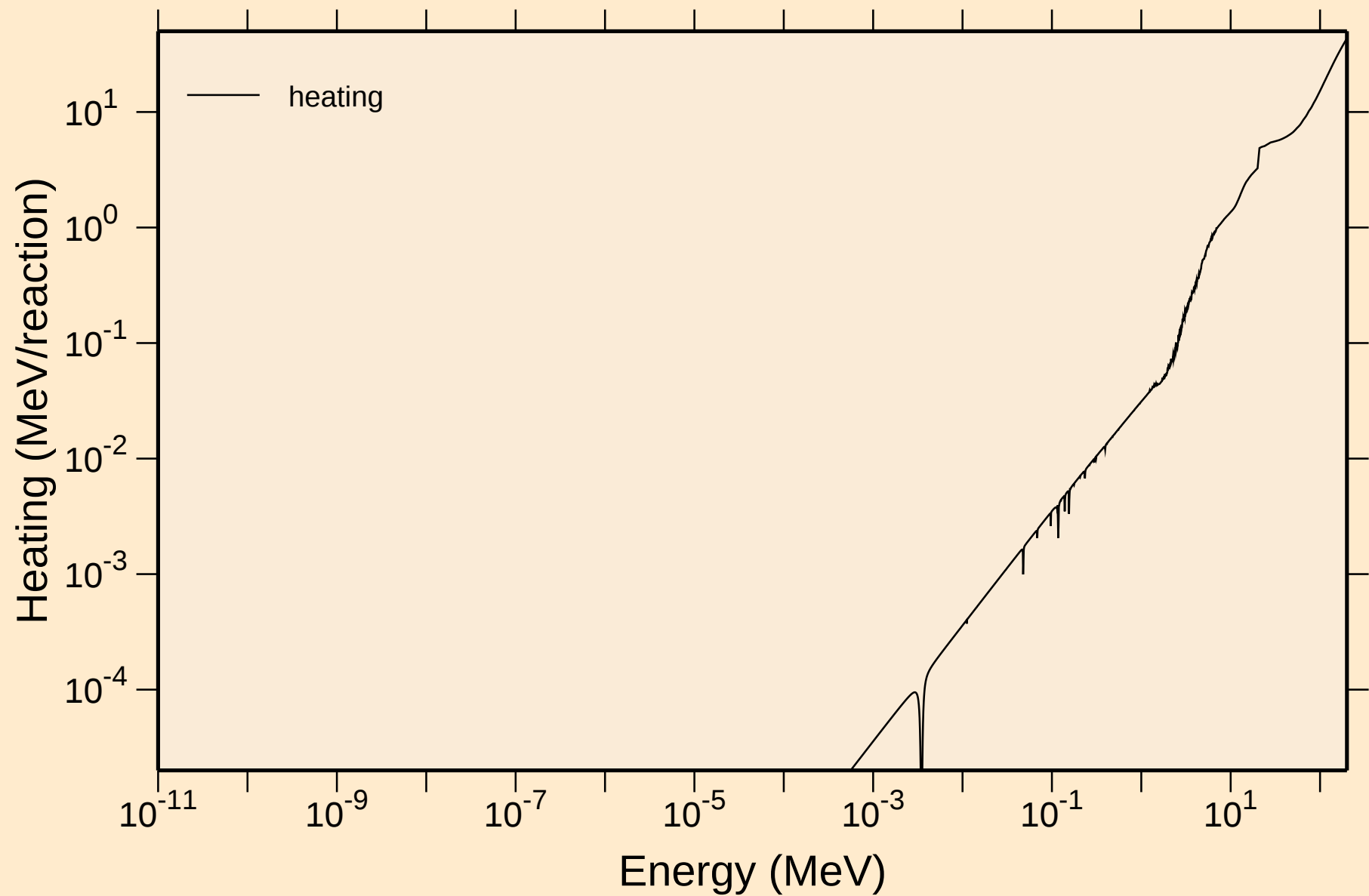


JEFF-3.1 FE-54 resonance absorption cross sections

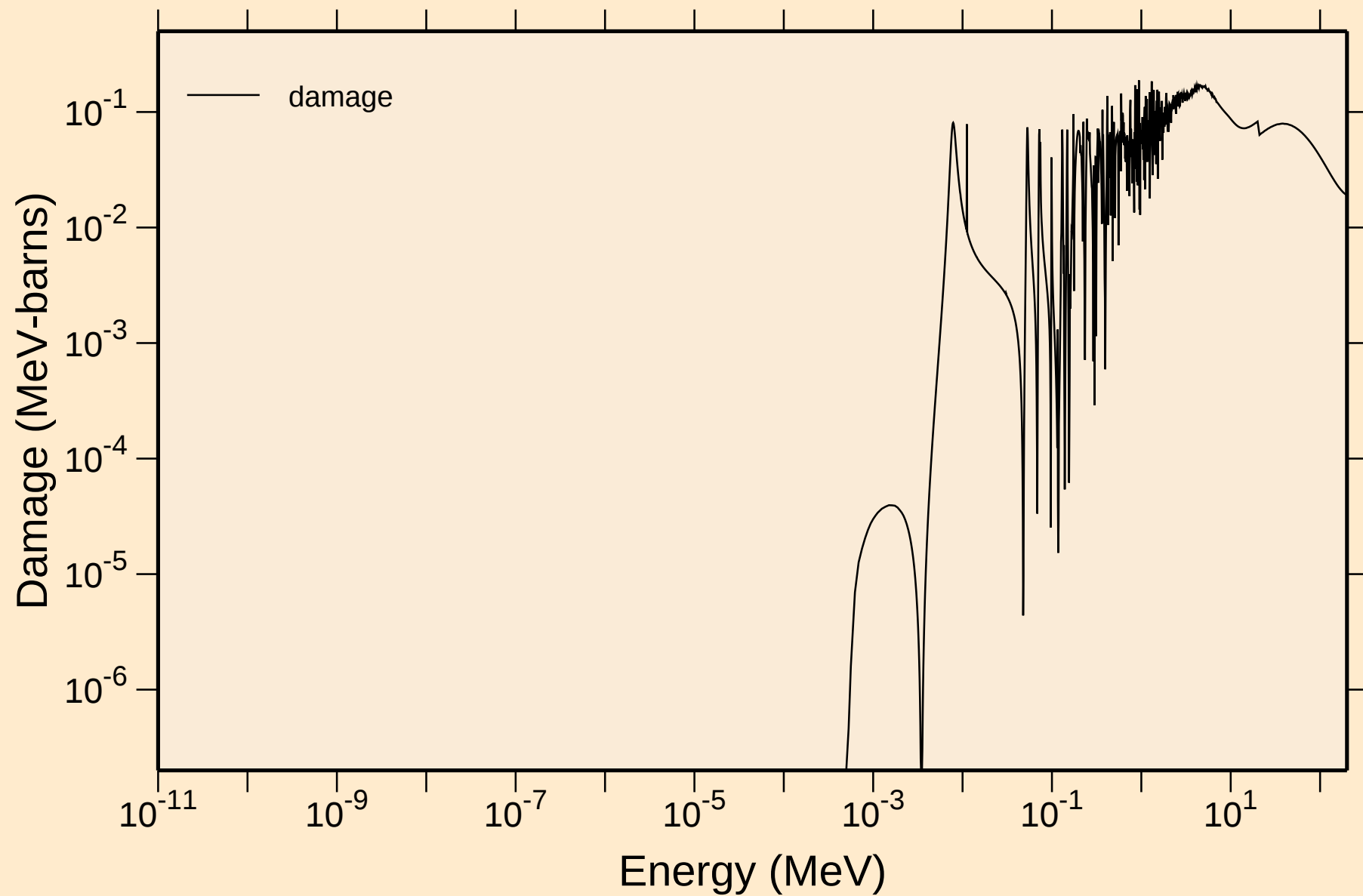


JEFF-3.1 FE-54

Heating

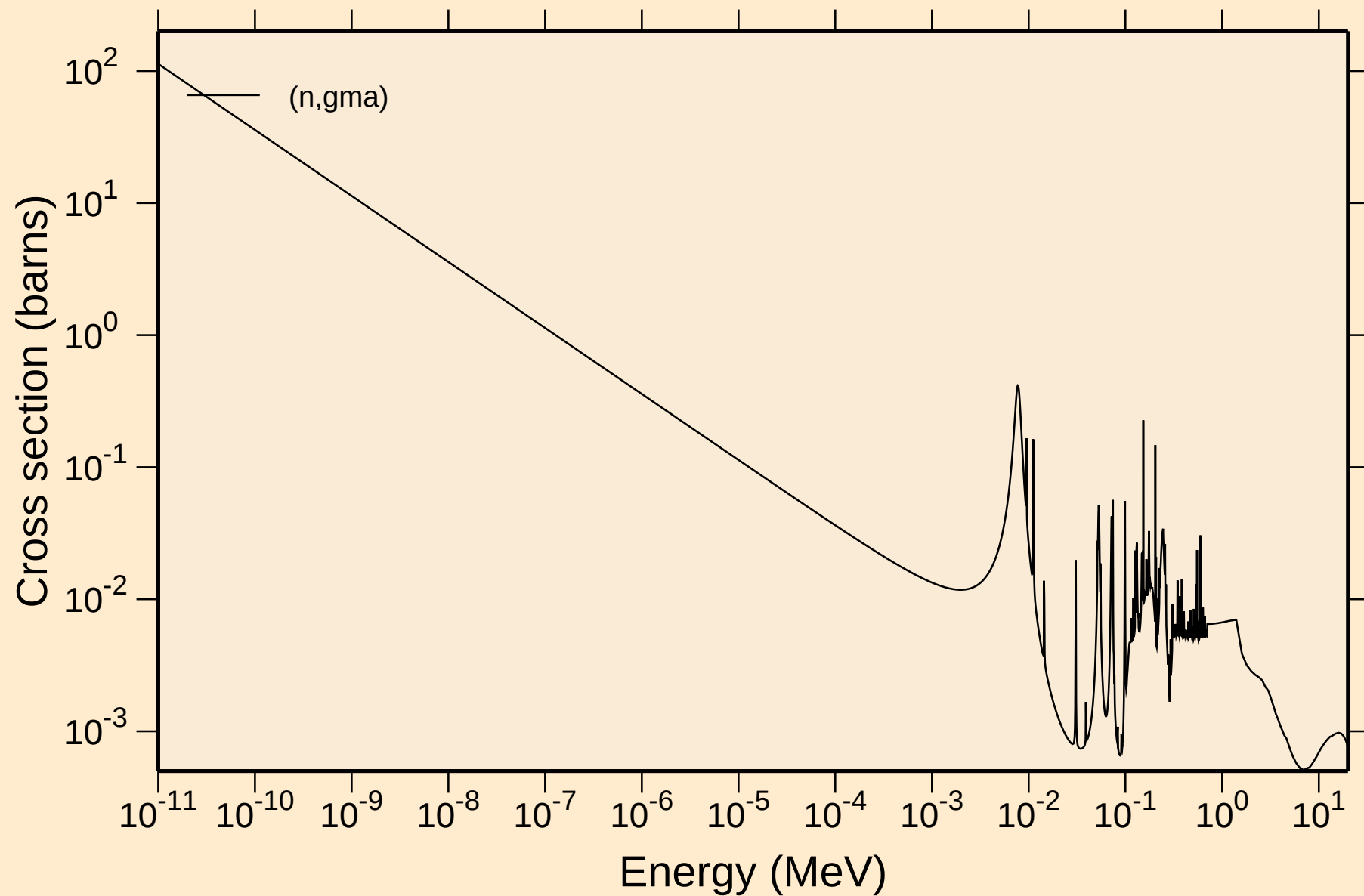


JEFF-3.1 FE-54 Damage



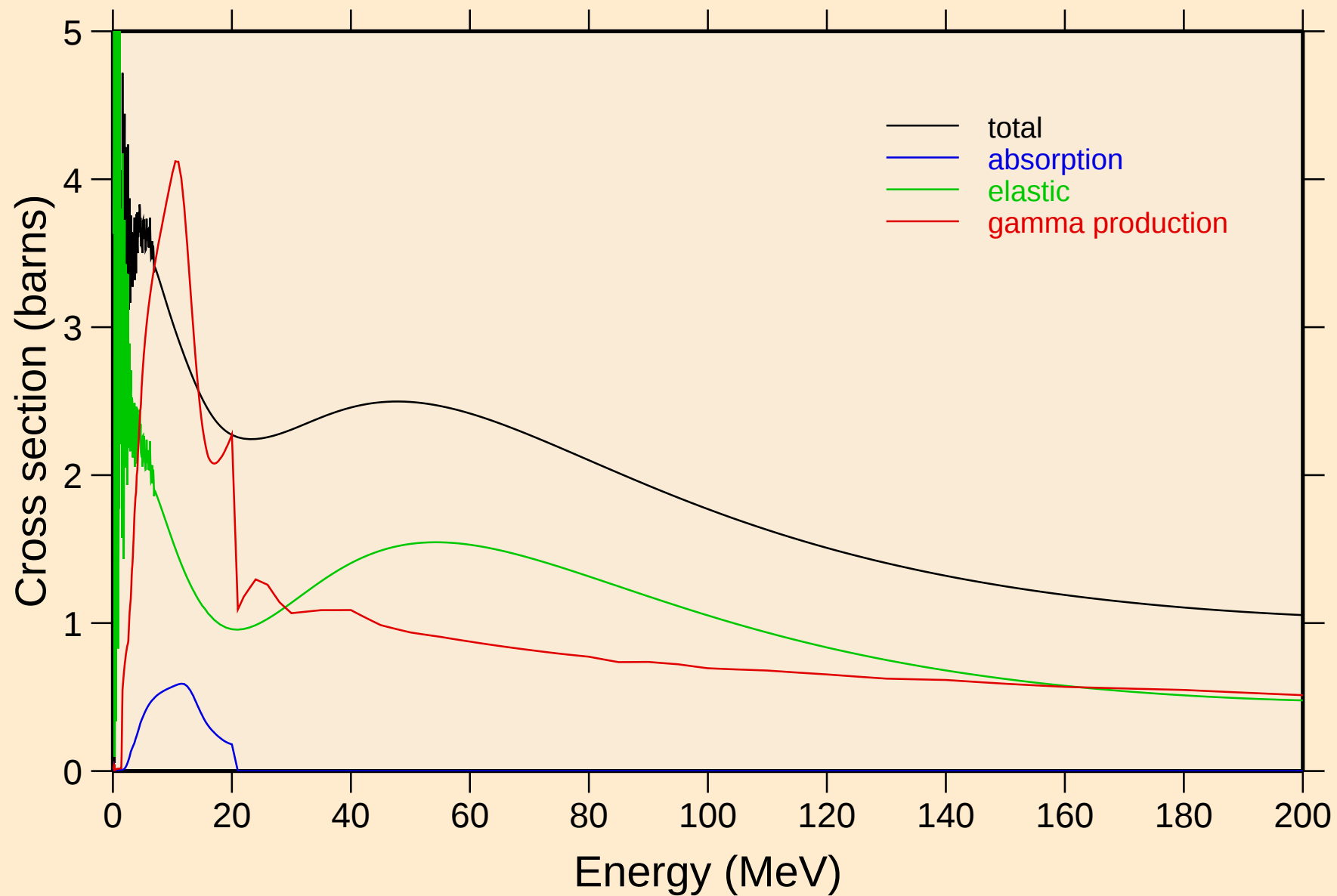
JEFF-3.1 FE-54

Non-threshold reactions



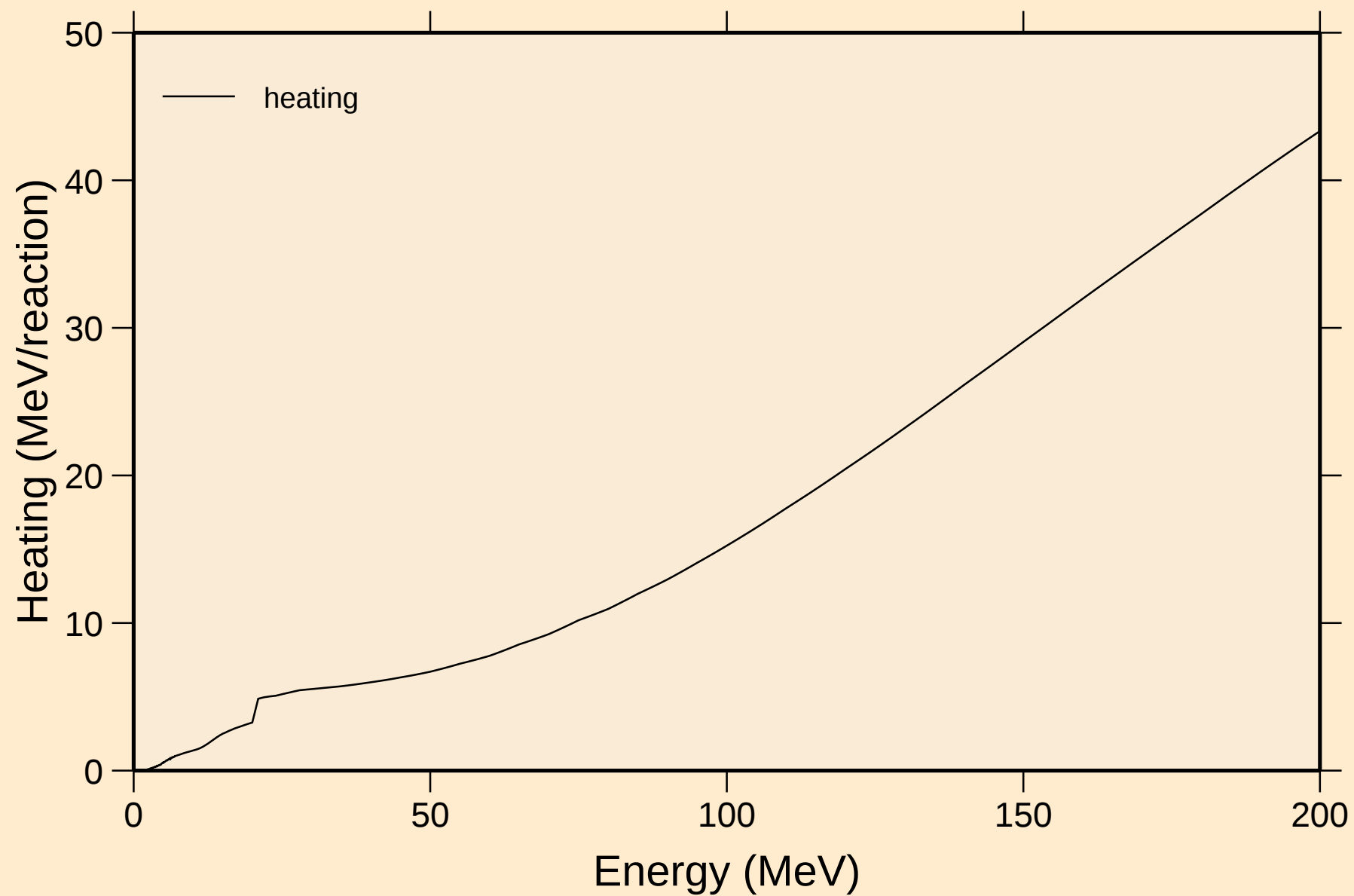
JEFF-3.1 FE-54

Principal cross sections



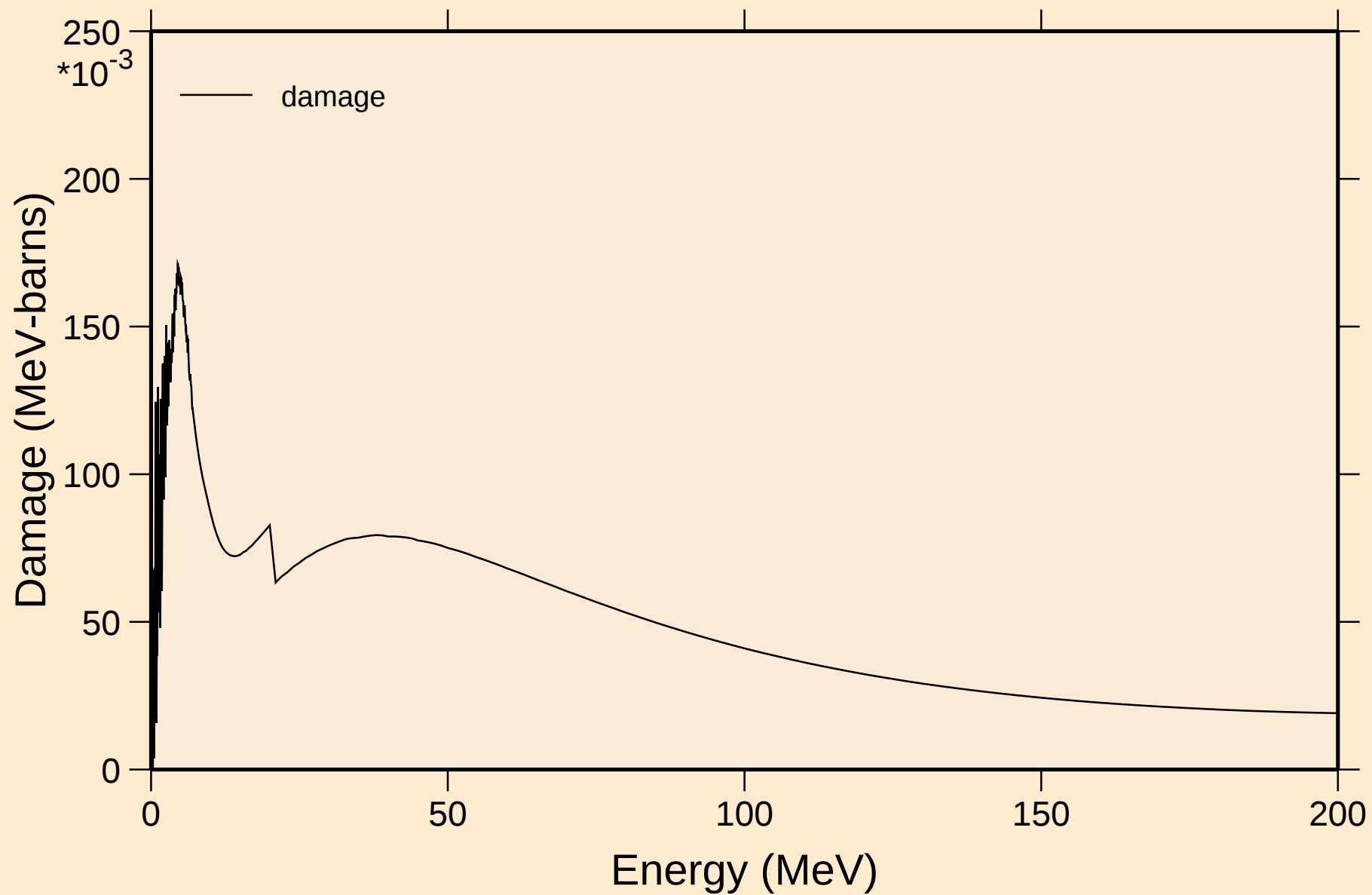
JEFF-3.1 FE-54

Heating



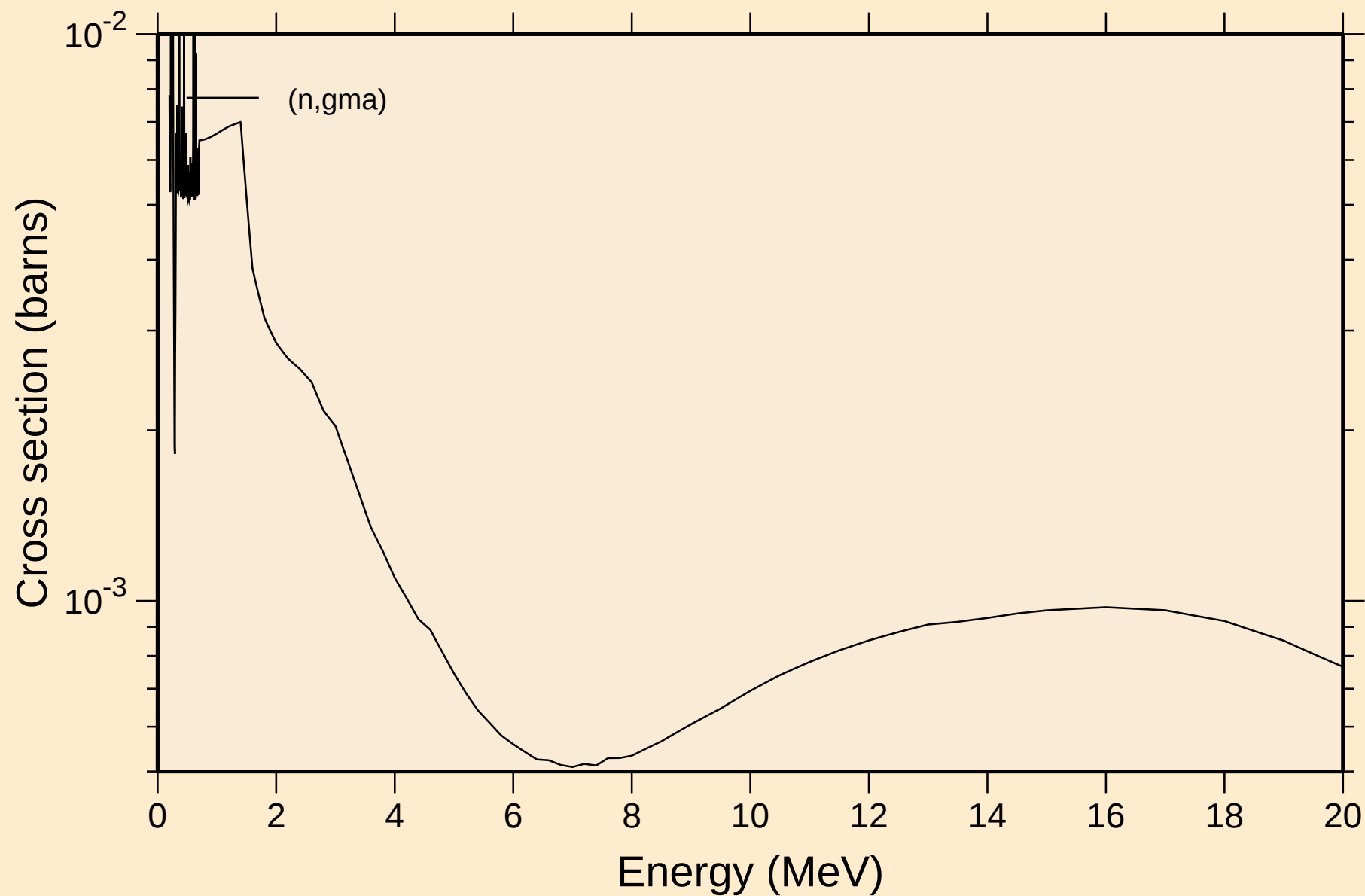
JEFF-3.1 FE-54

Damage



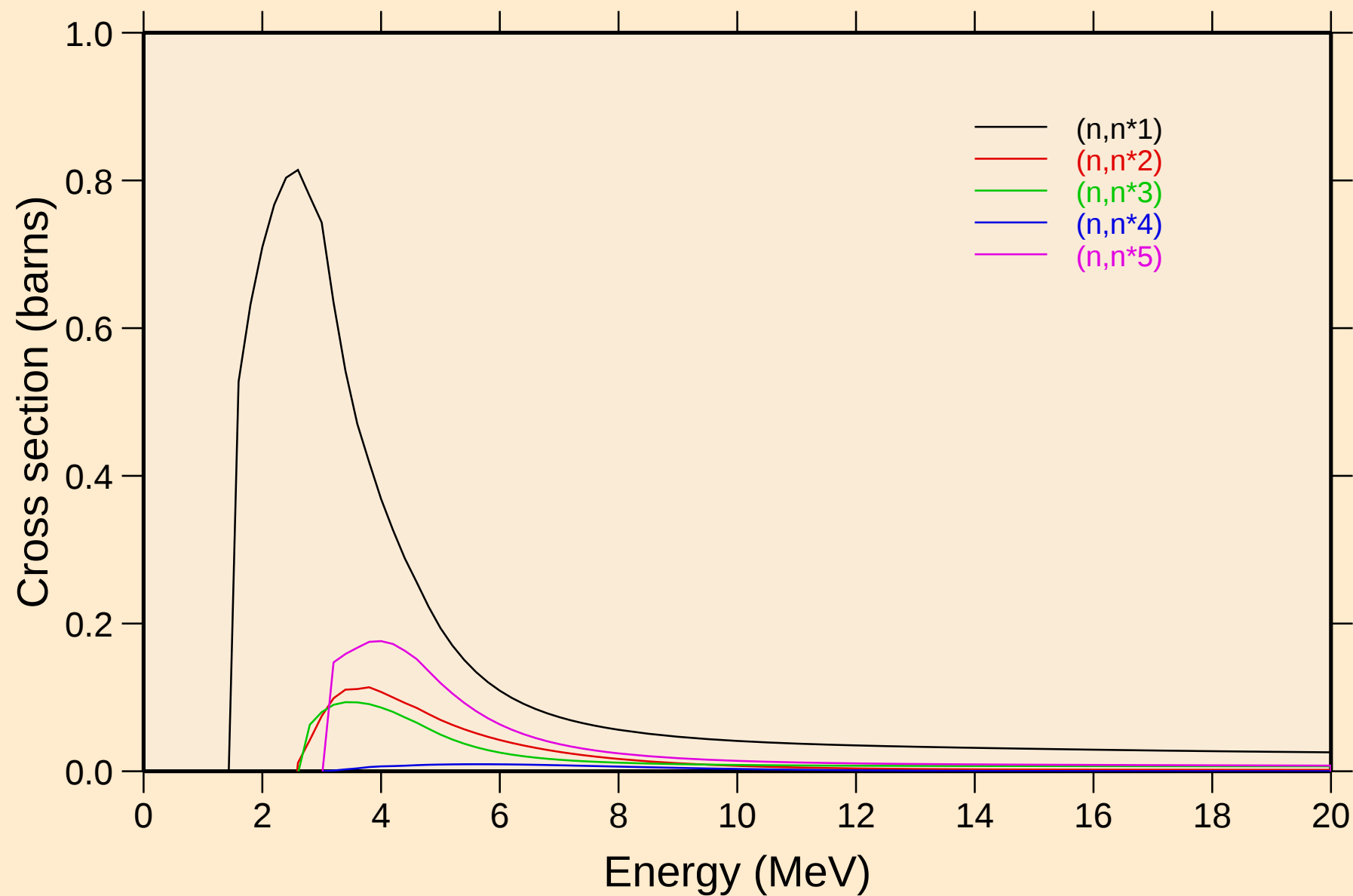
JEFF-3.1 FE-54

Non-threshold reactions



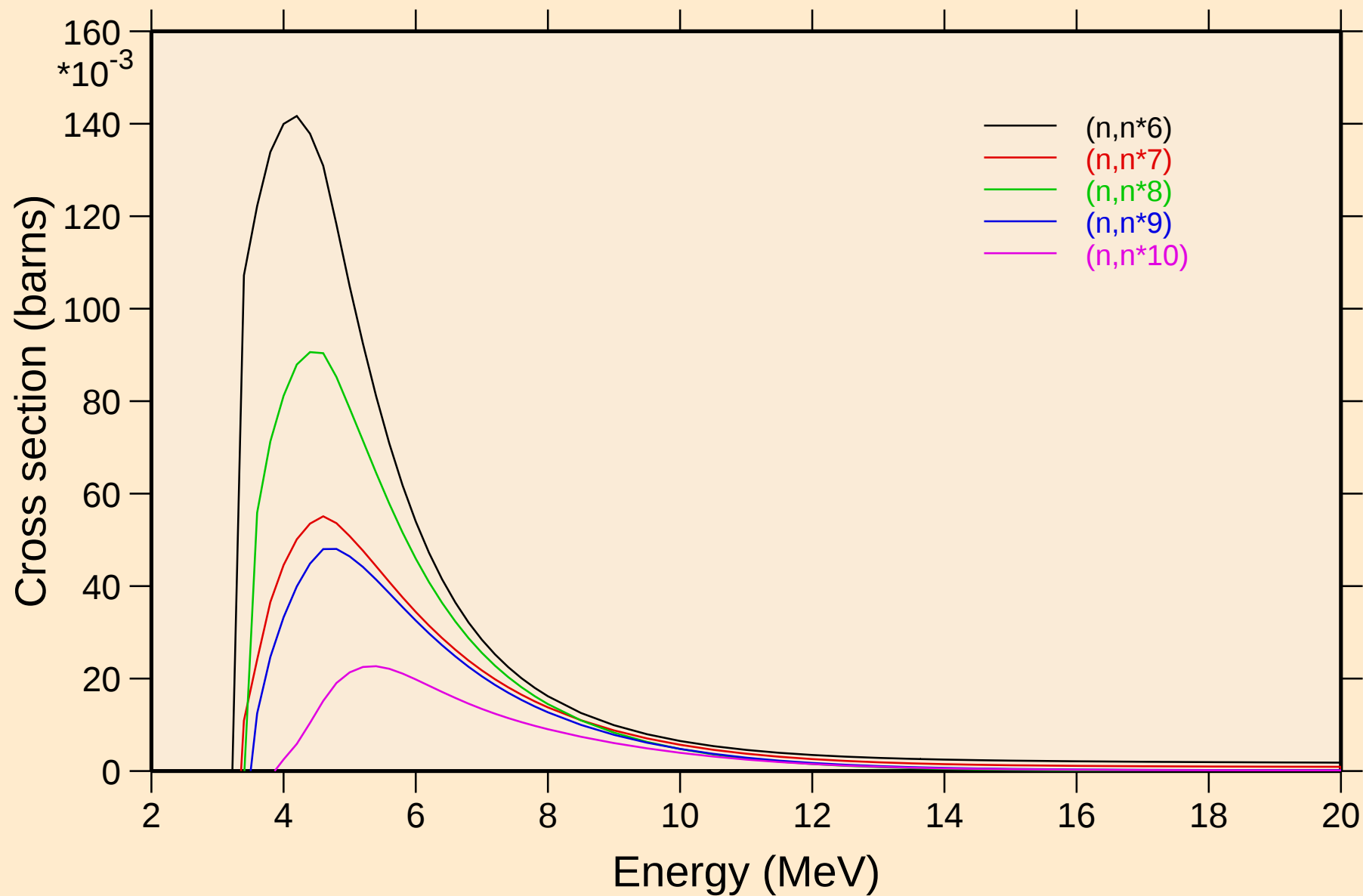
JEFF-3.1 FE-54

Inelastic levels



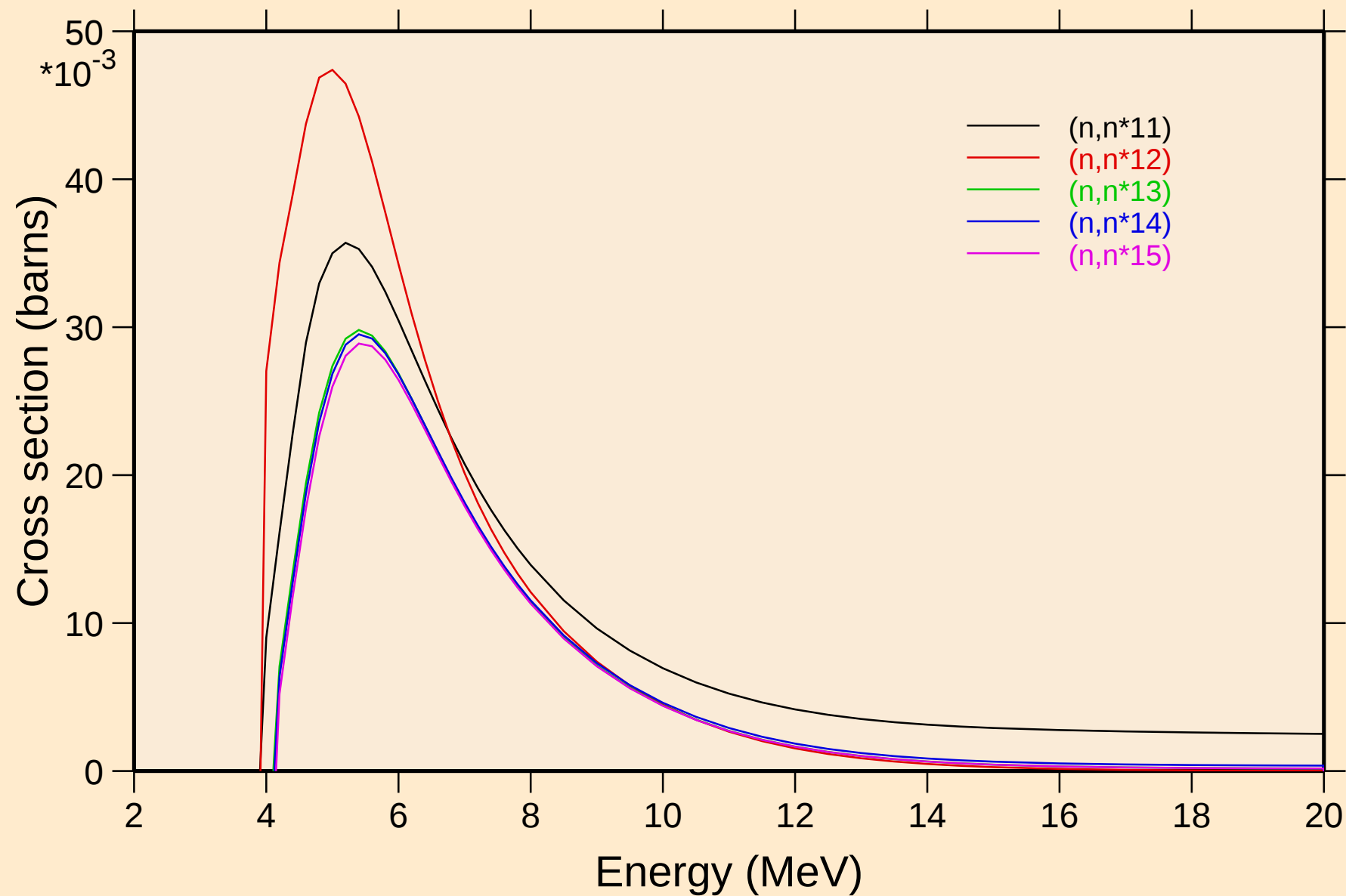
JEFF-3.1 FE-54

Inelastic levels



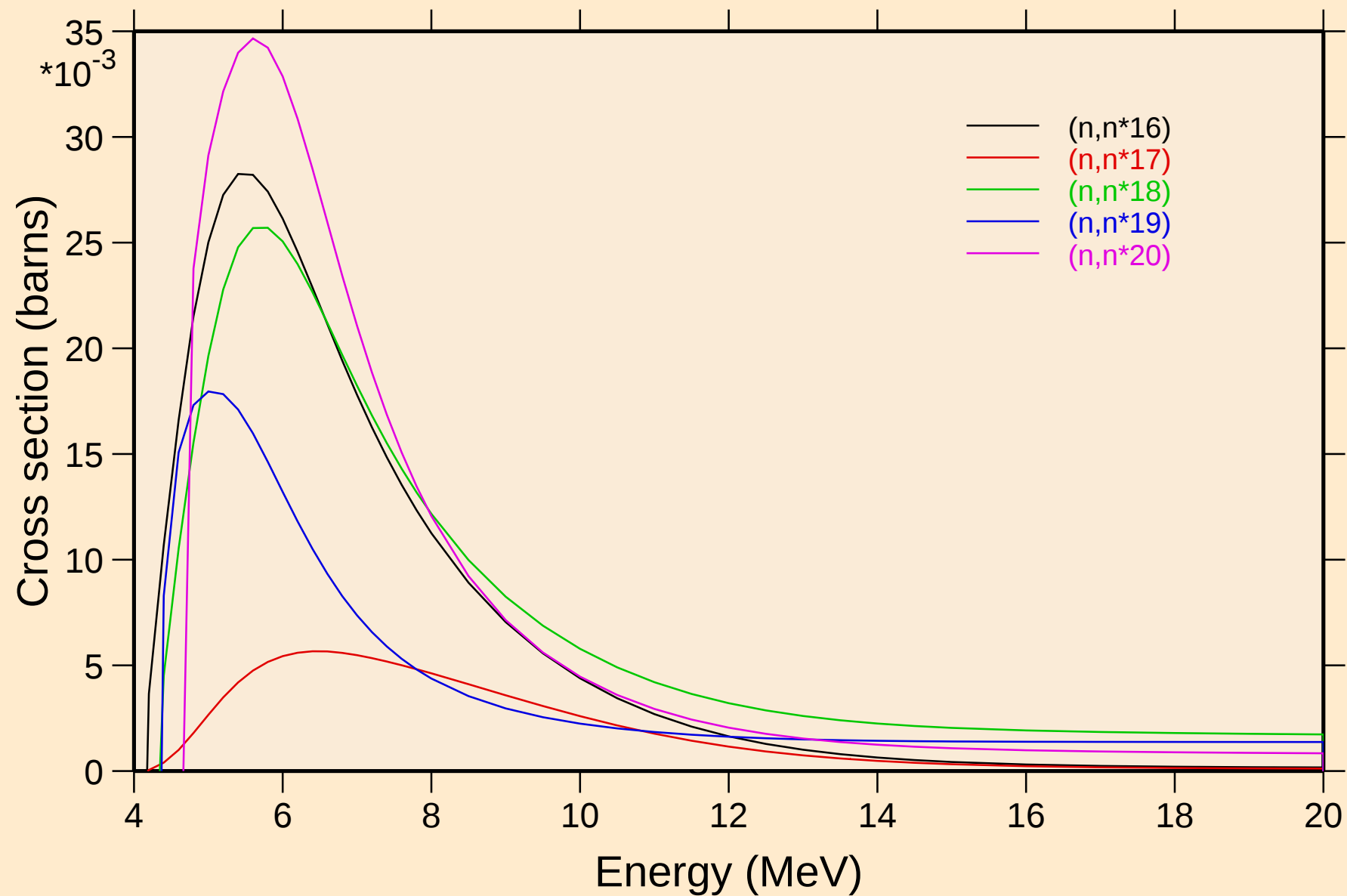
JEFF-3.1 FE-54

Inelastic levels



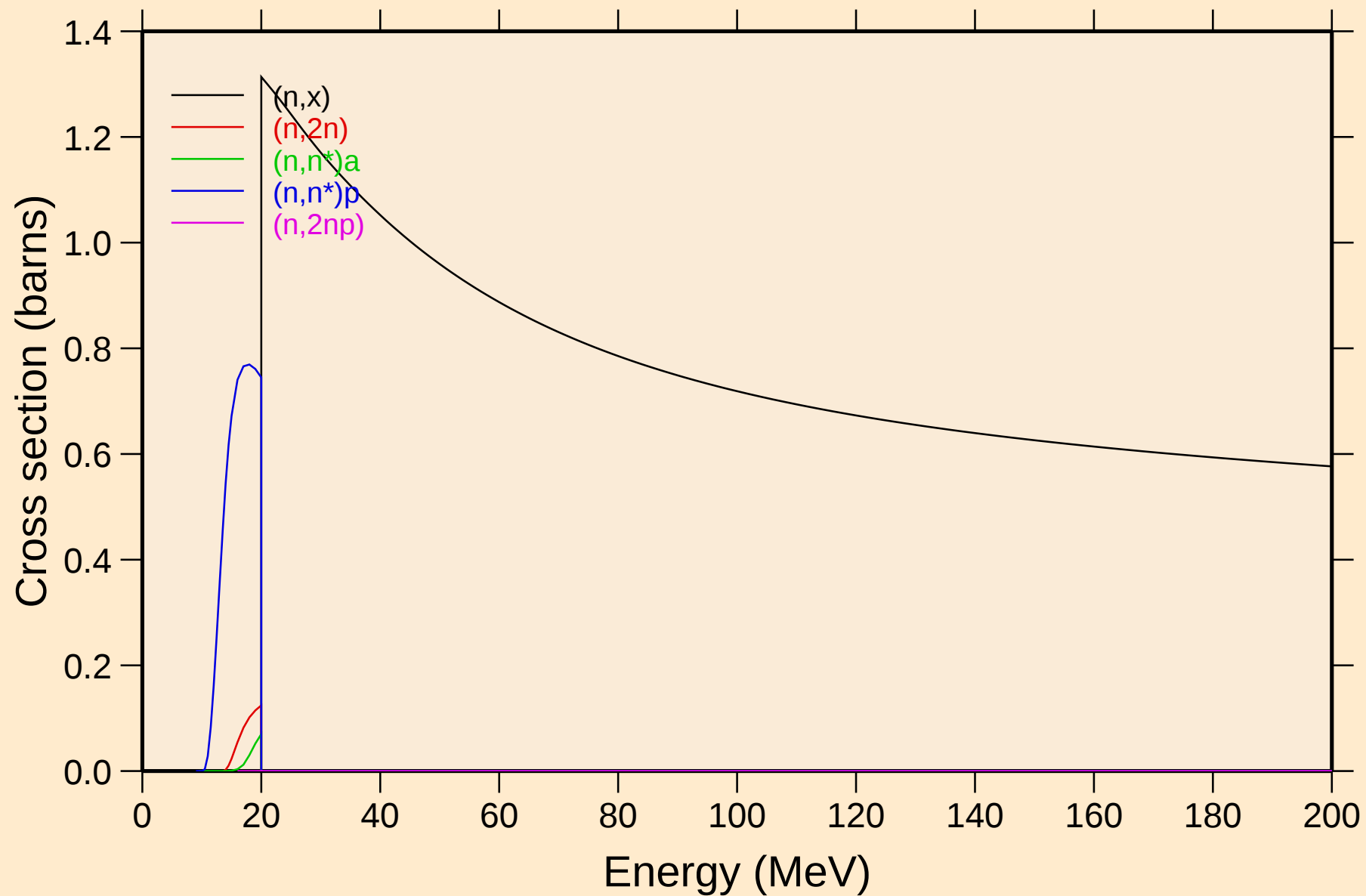
JEFF-3.1 FE-54

Inelastic levels



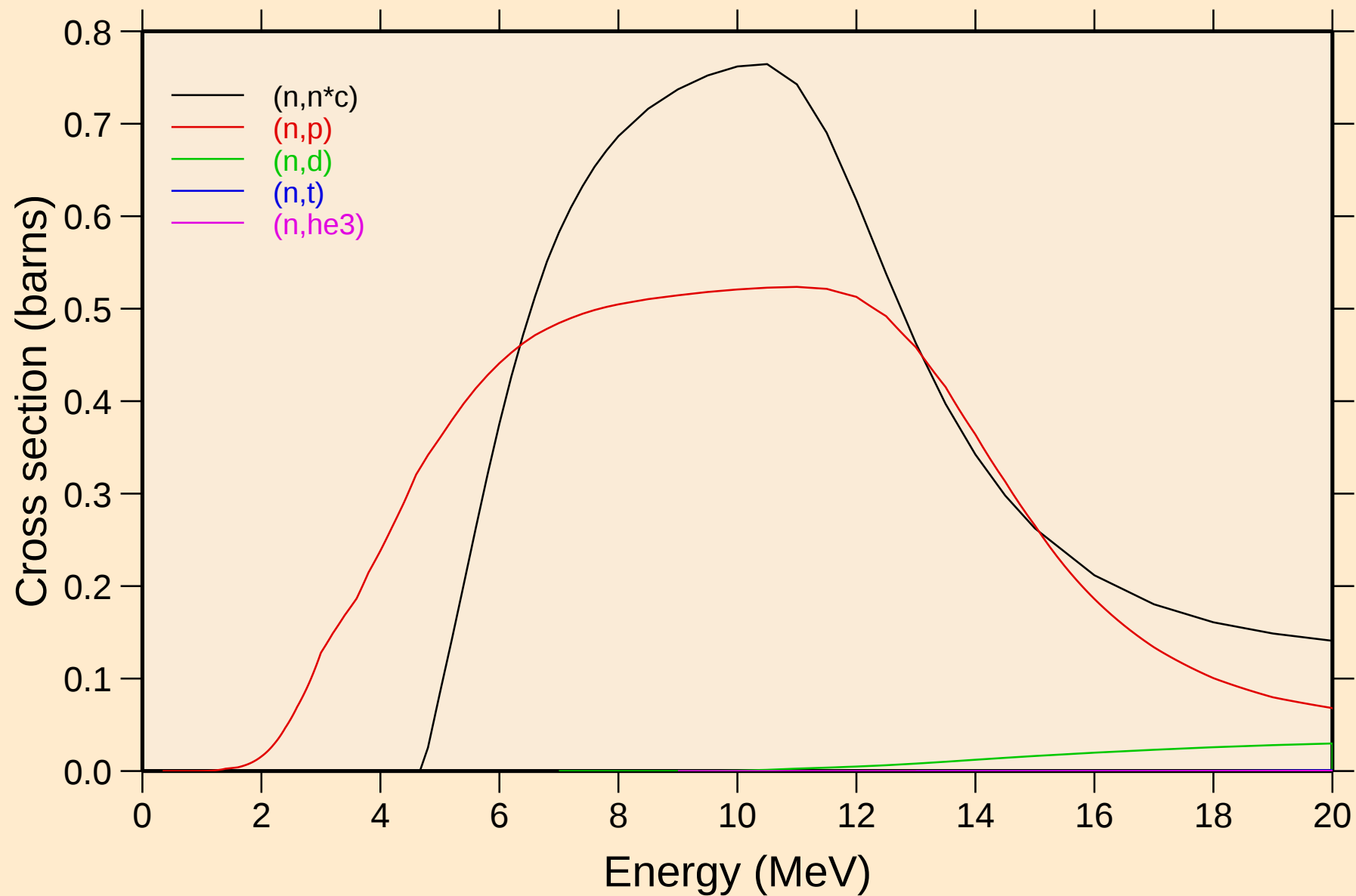
JEFF-3.1 FE-54

Threshold reactions



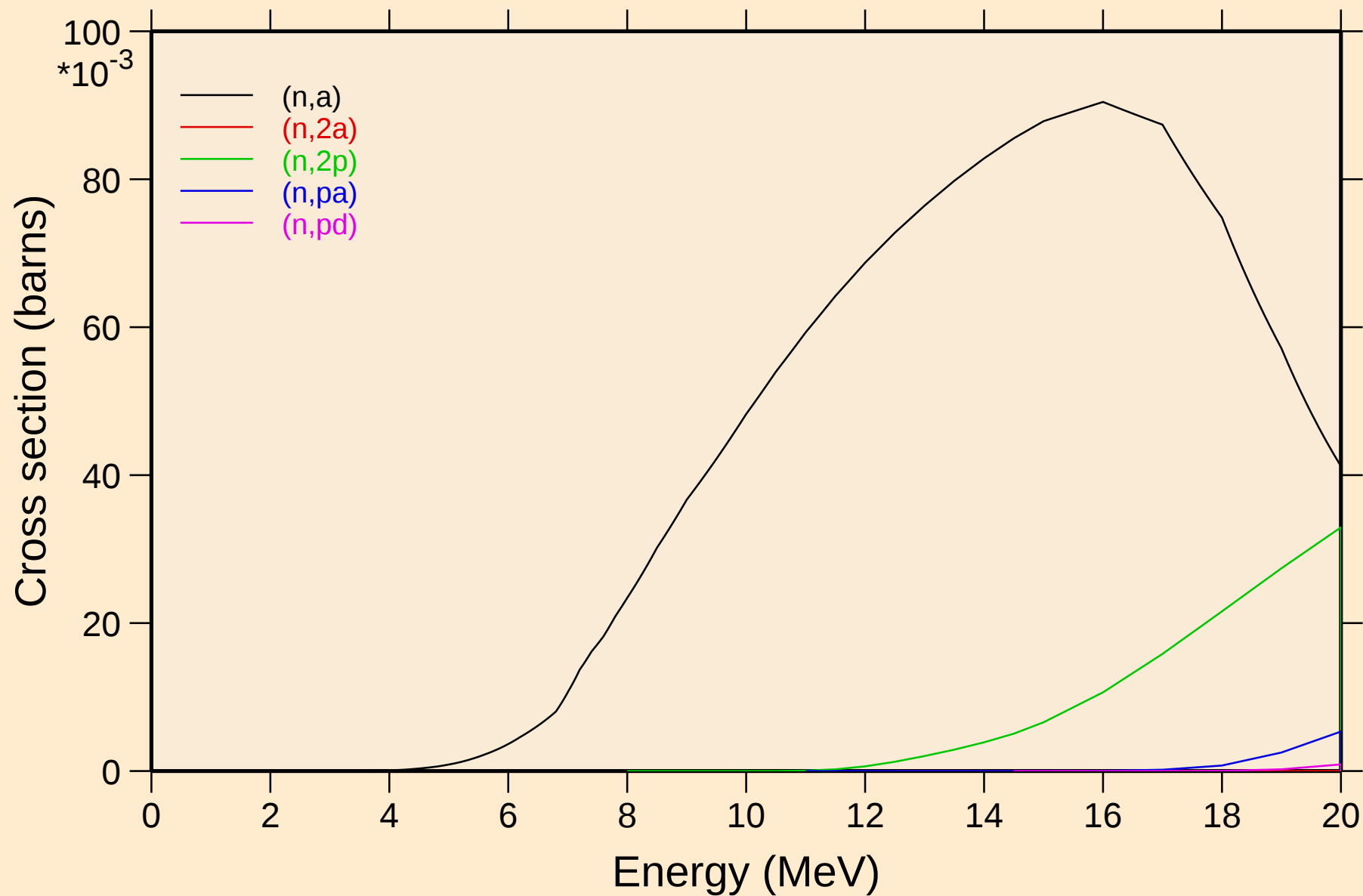
JEFF-3.1 FE-54

Threshold reactions



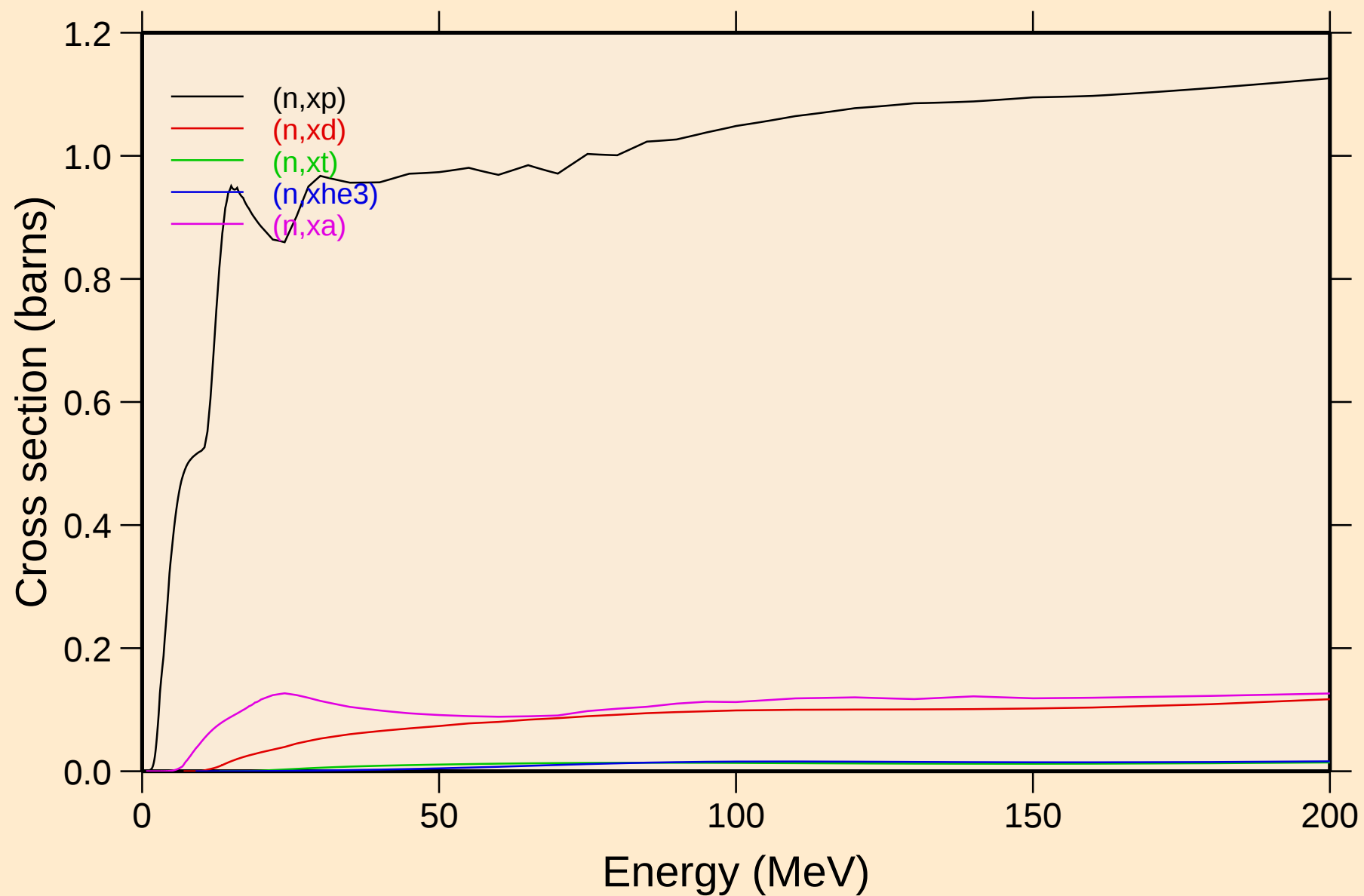
JEFF-3.1 FE-54

Threshold reactions



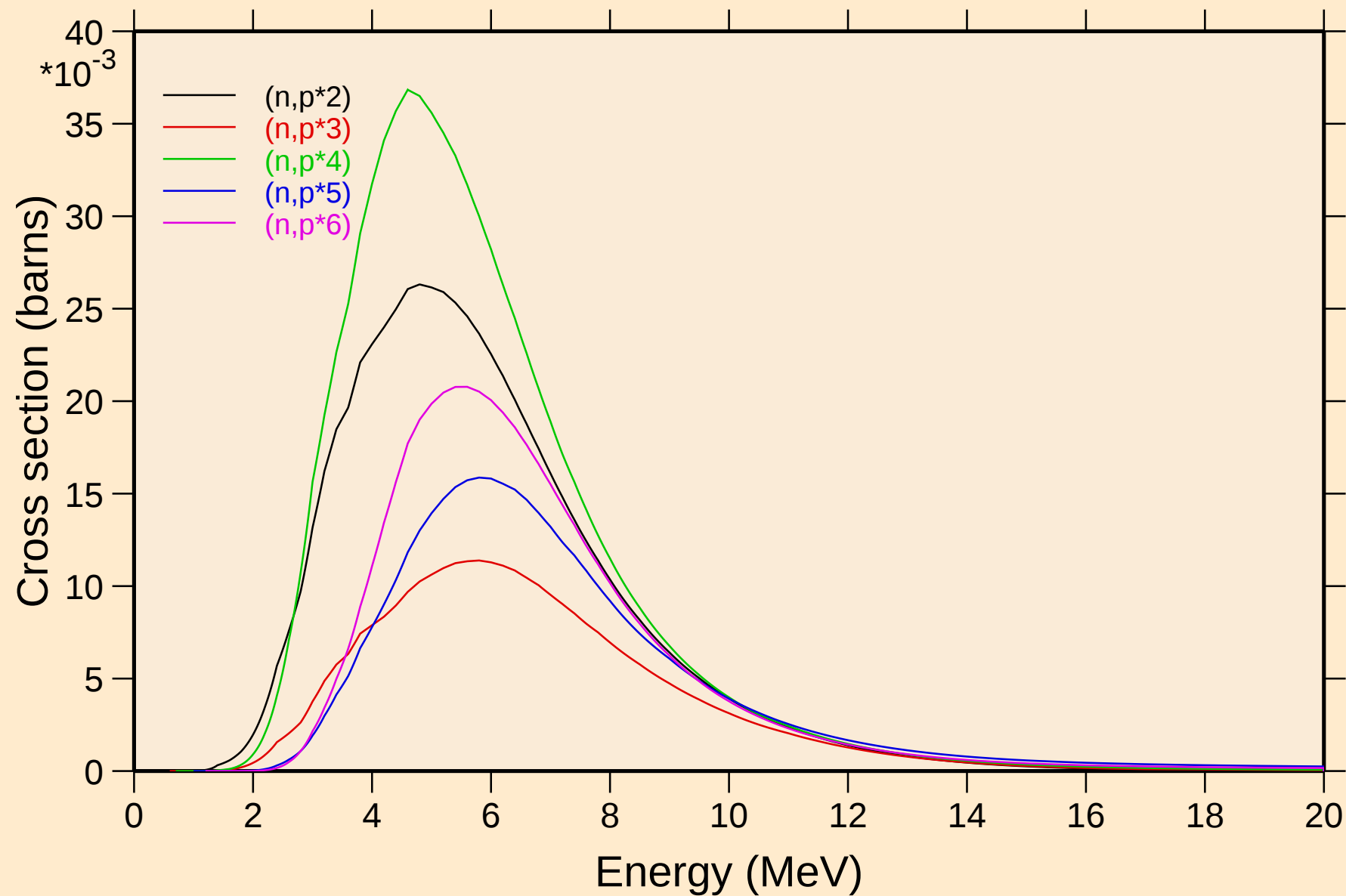
JEFF-3.1 FE-54

Threshold reactions



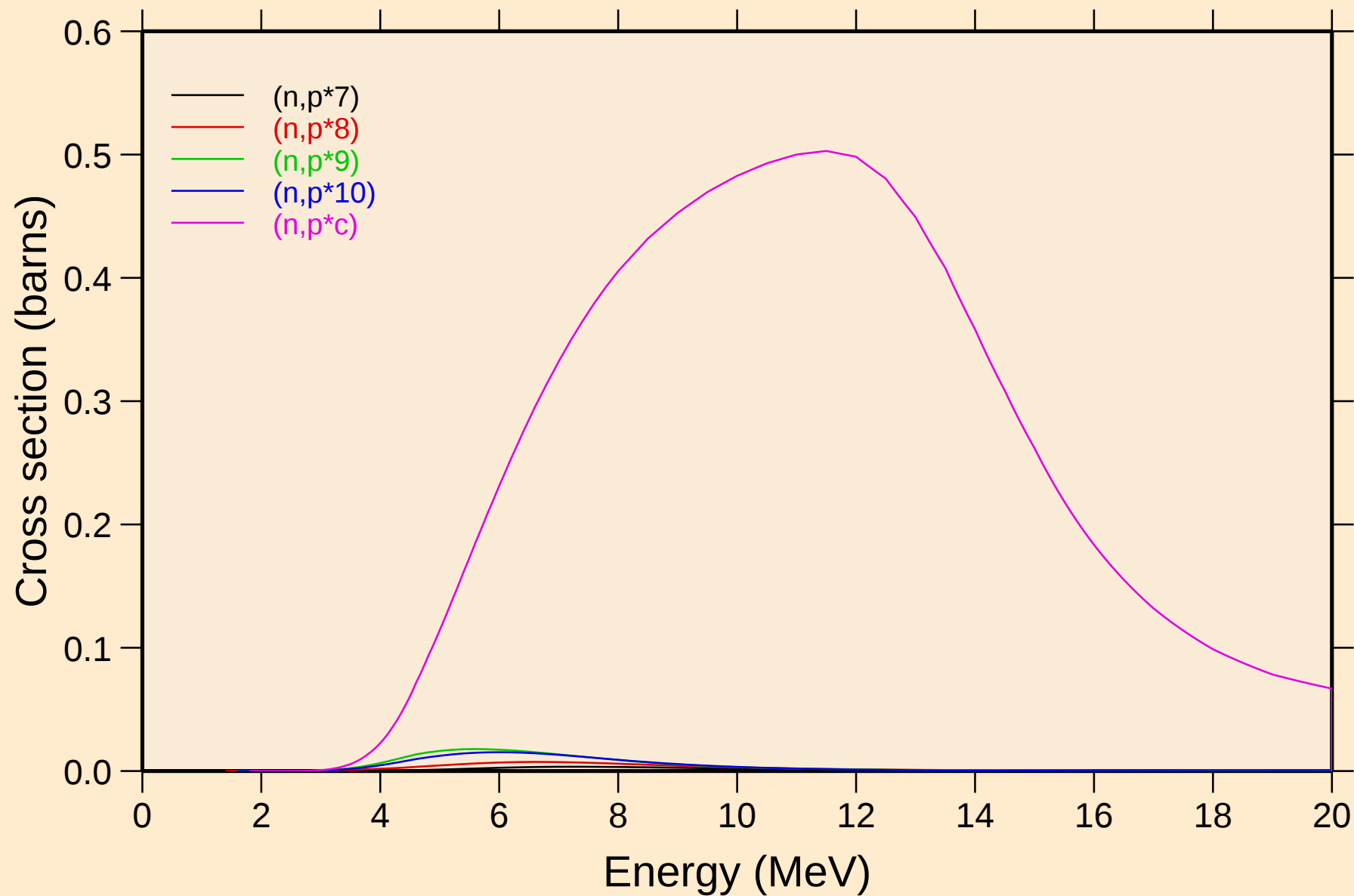
JEFF-3.1 FE-54

Threshold reactions



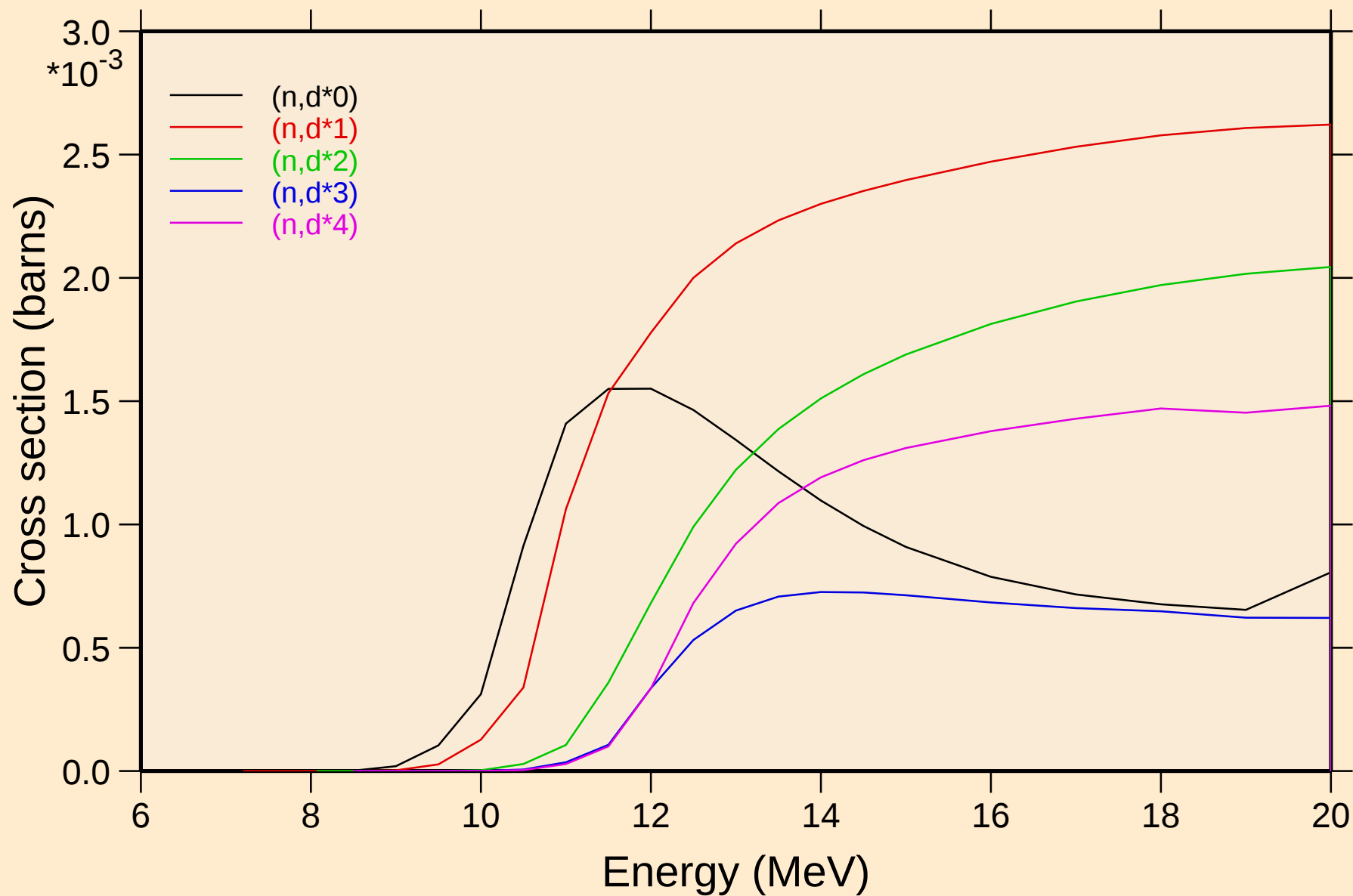
JEFF-3.1 FE-54

Threshold reactions



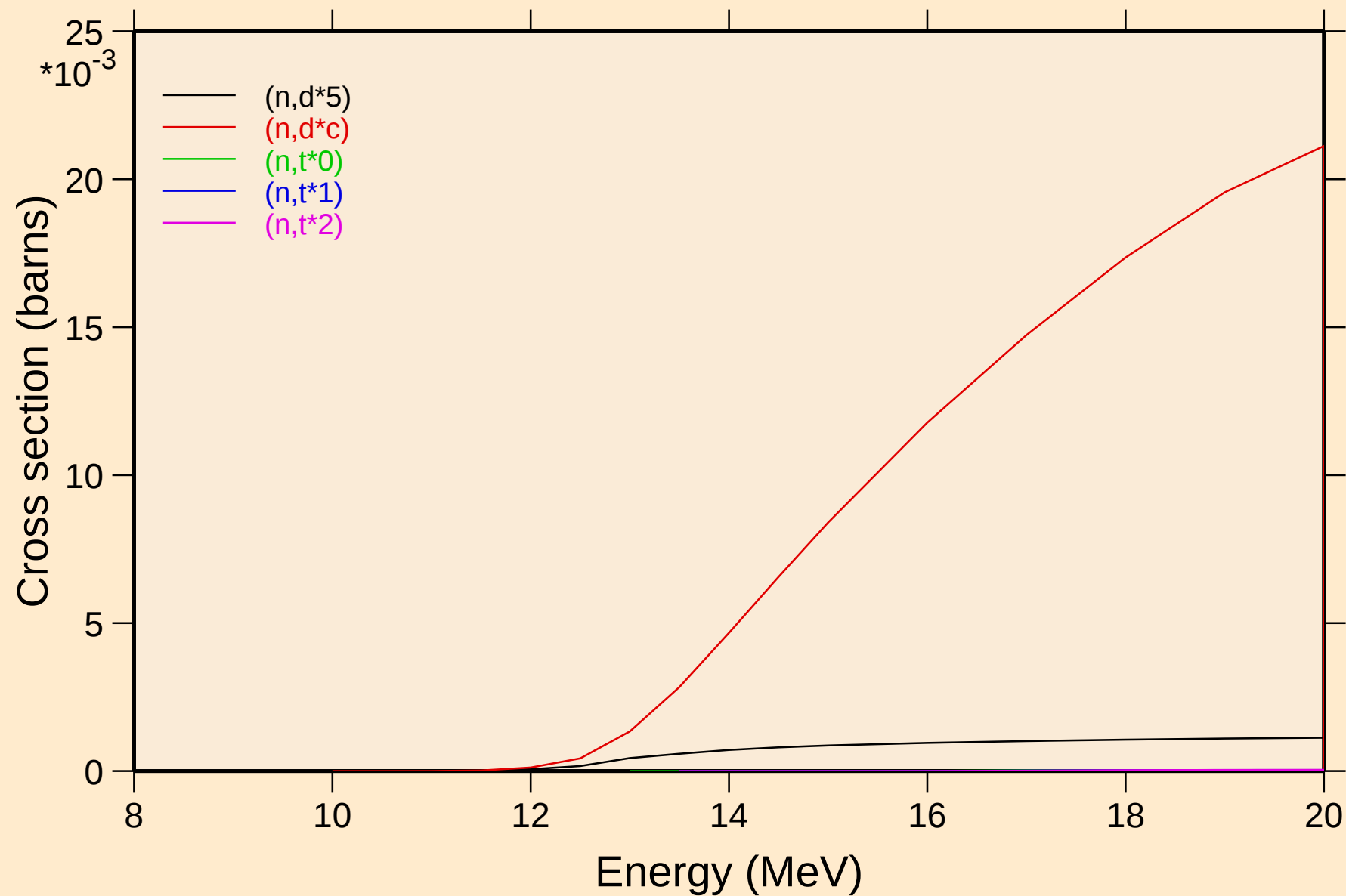
JEFF-3.1 FE-54

Threshold reactions



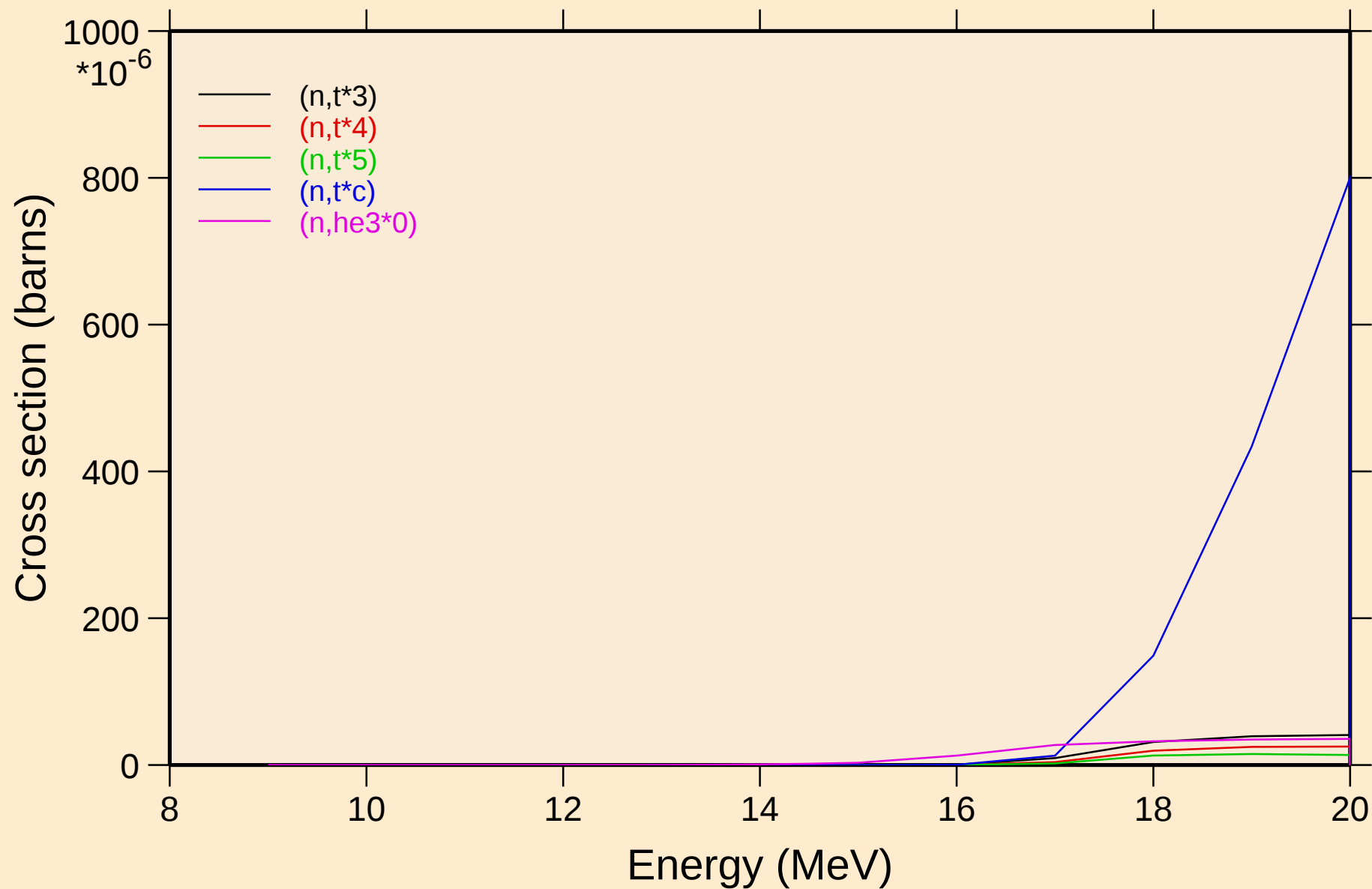
JEFF-3.1 FE-54

Threshold reactions



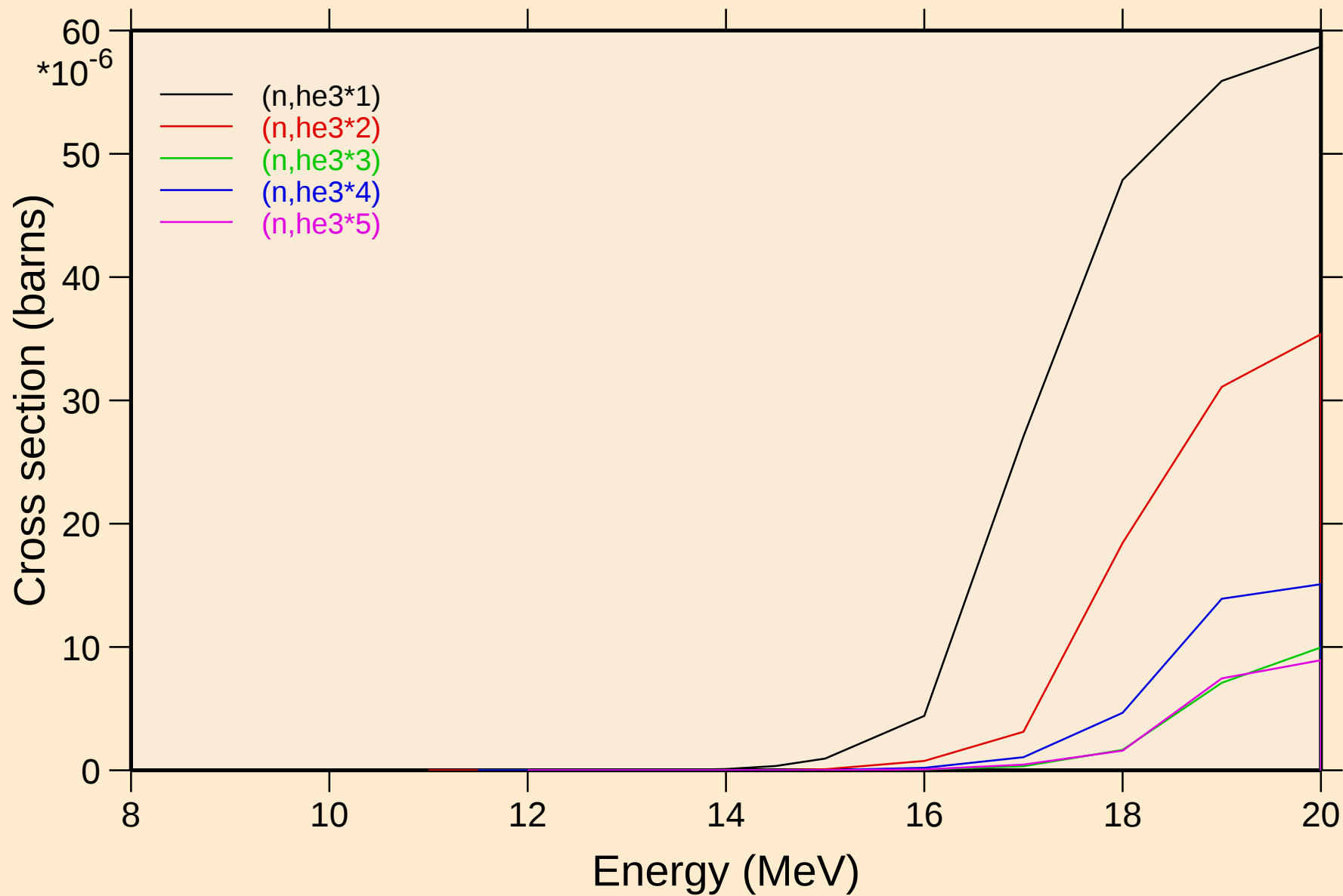
JEFF-3.1 FE-54

Threshold reactions



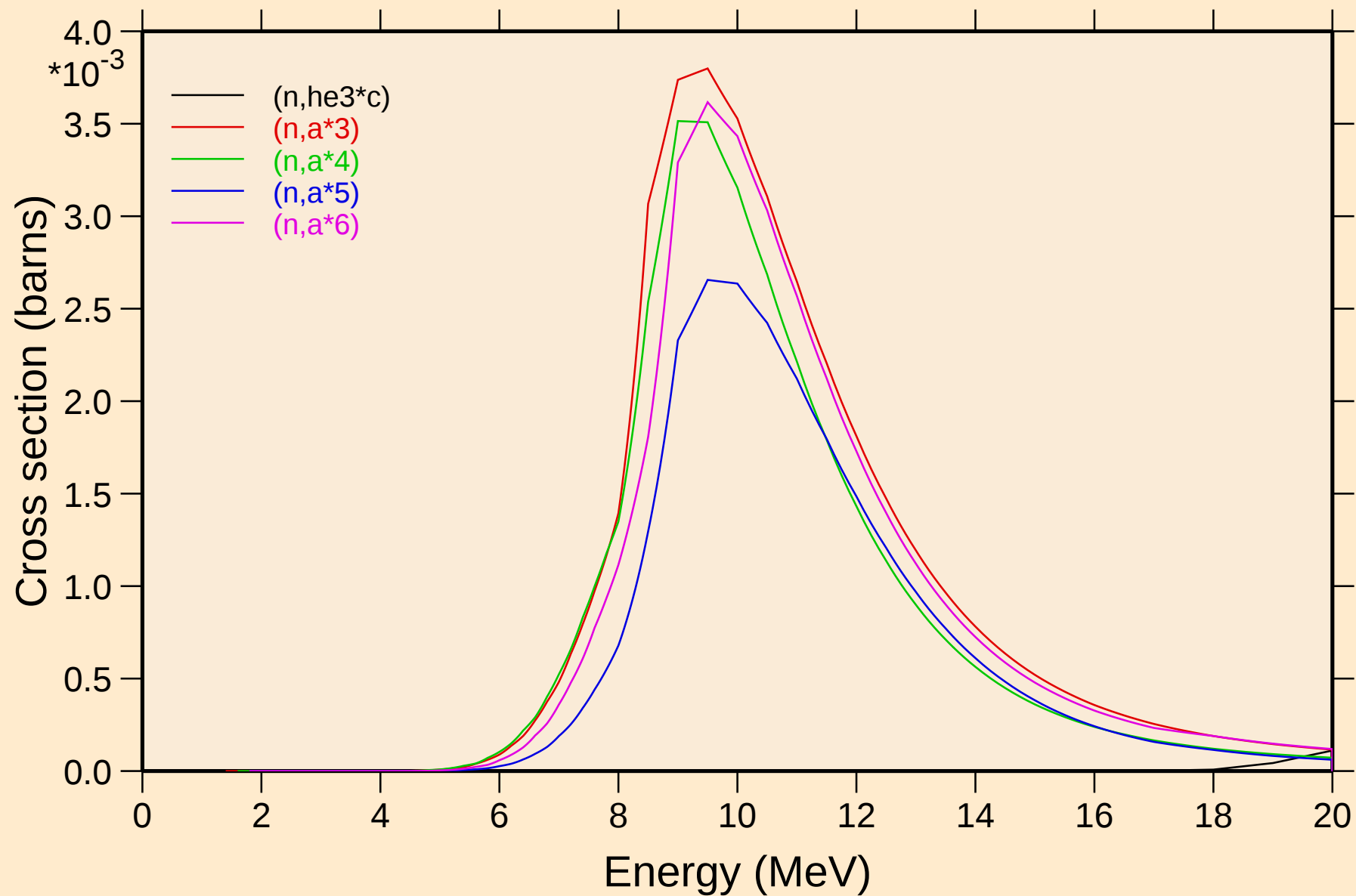
JEFF-3.1 FE-54

Threshold reactions



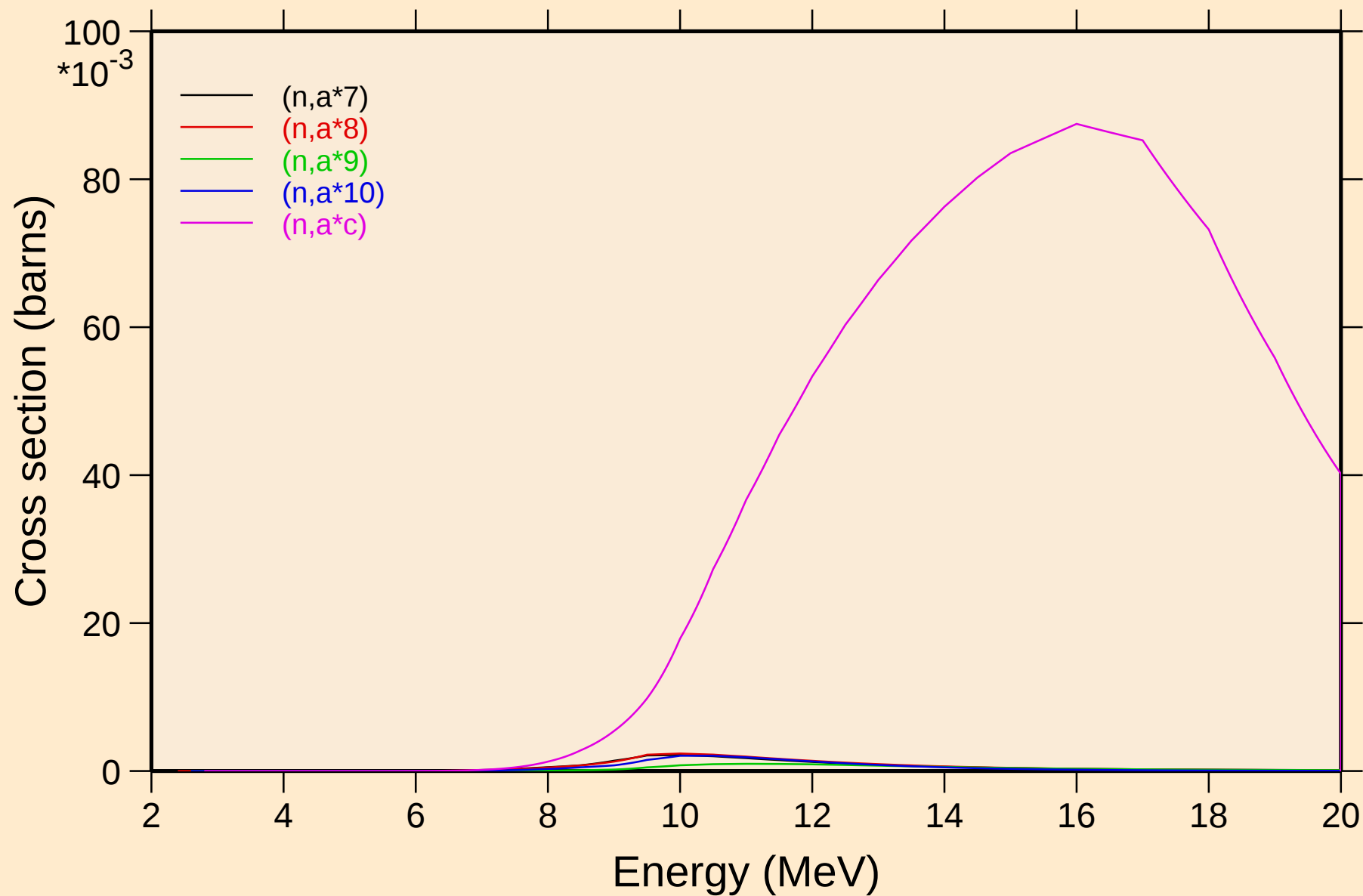
JEFF-3.1 FE-54

Threshold reactions

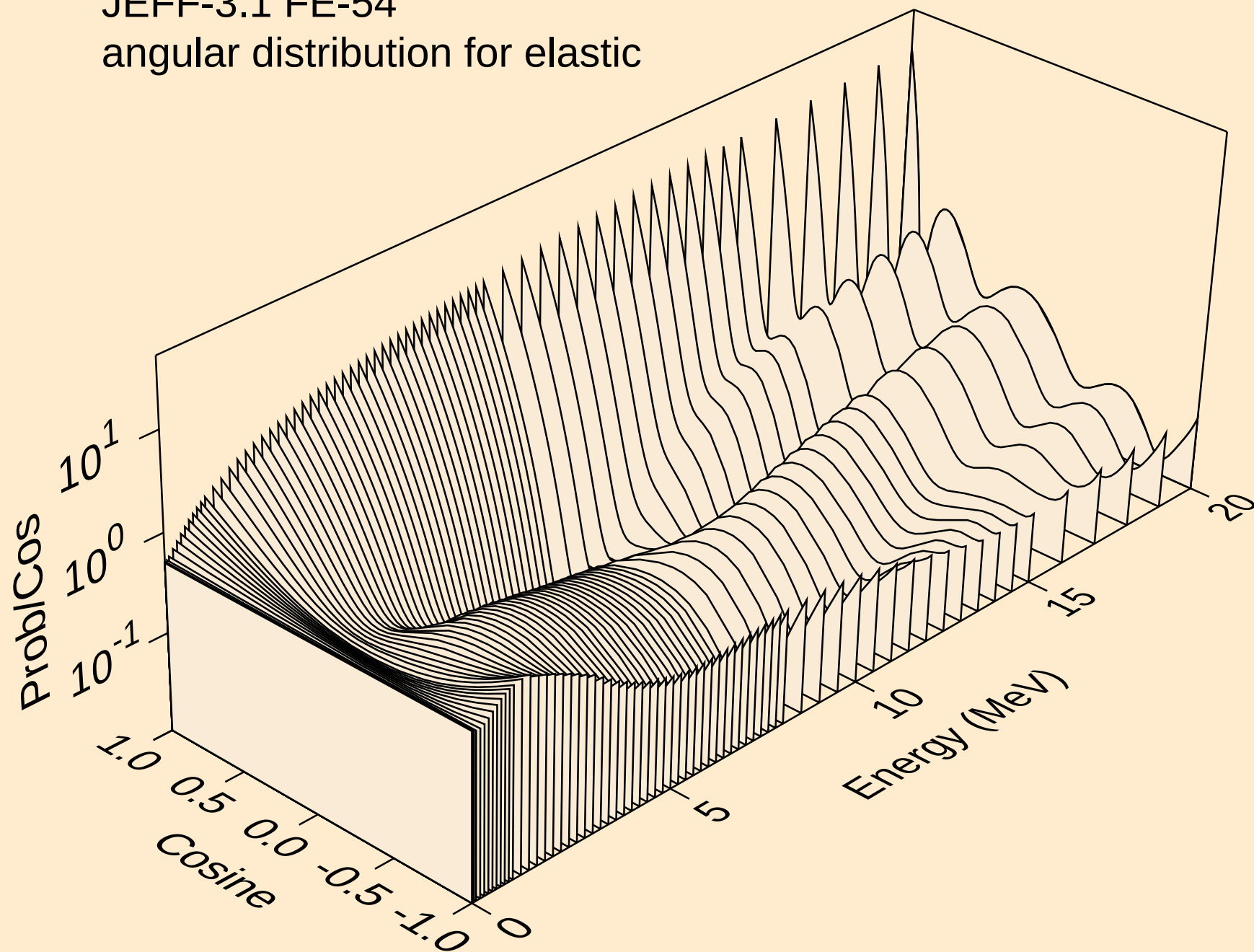


JEFF-3.1 FE-54

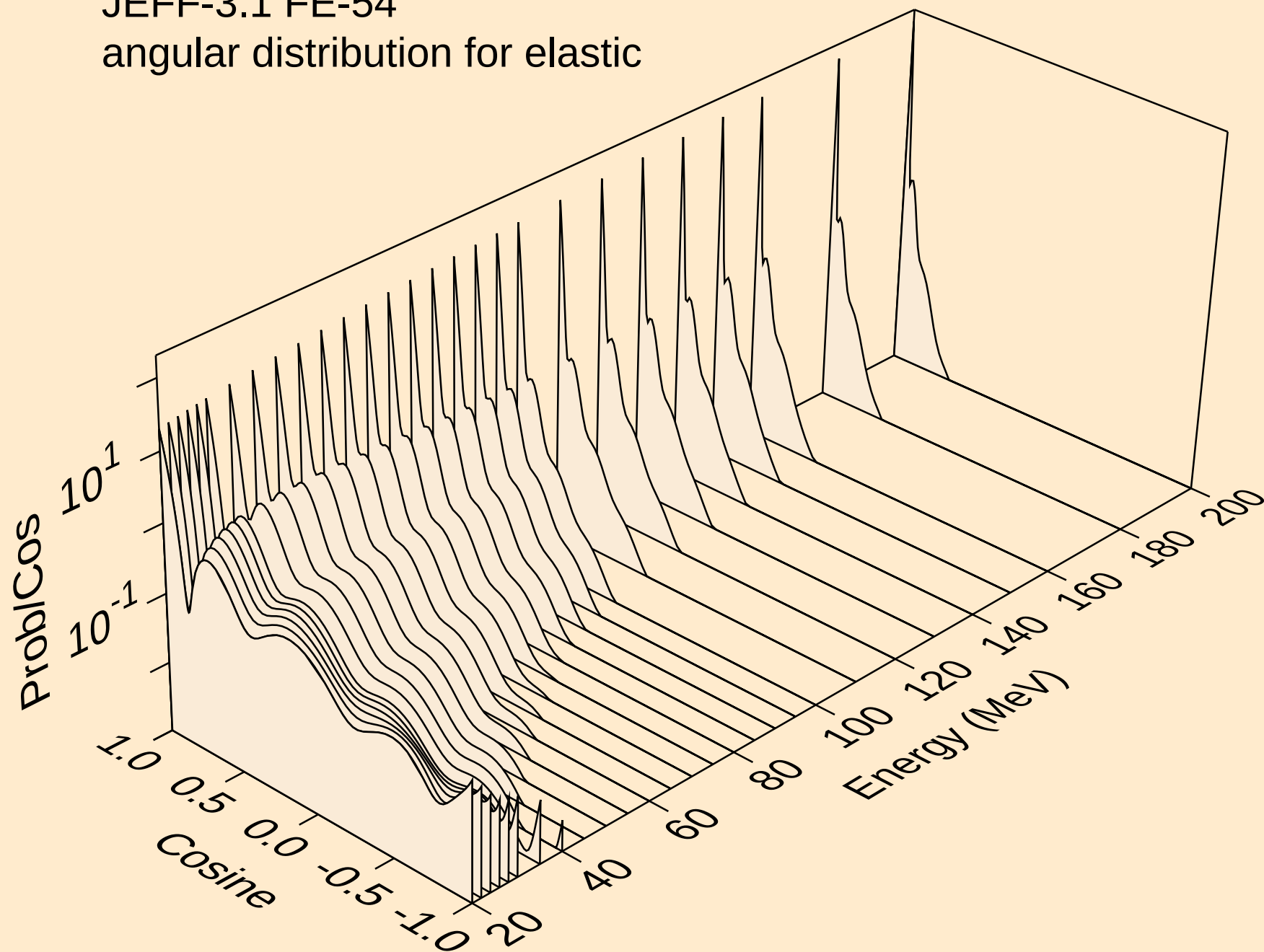
Threshold reactions



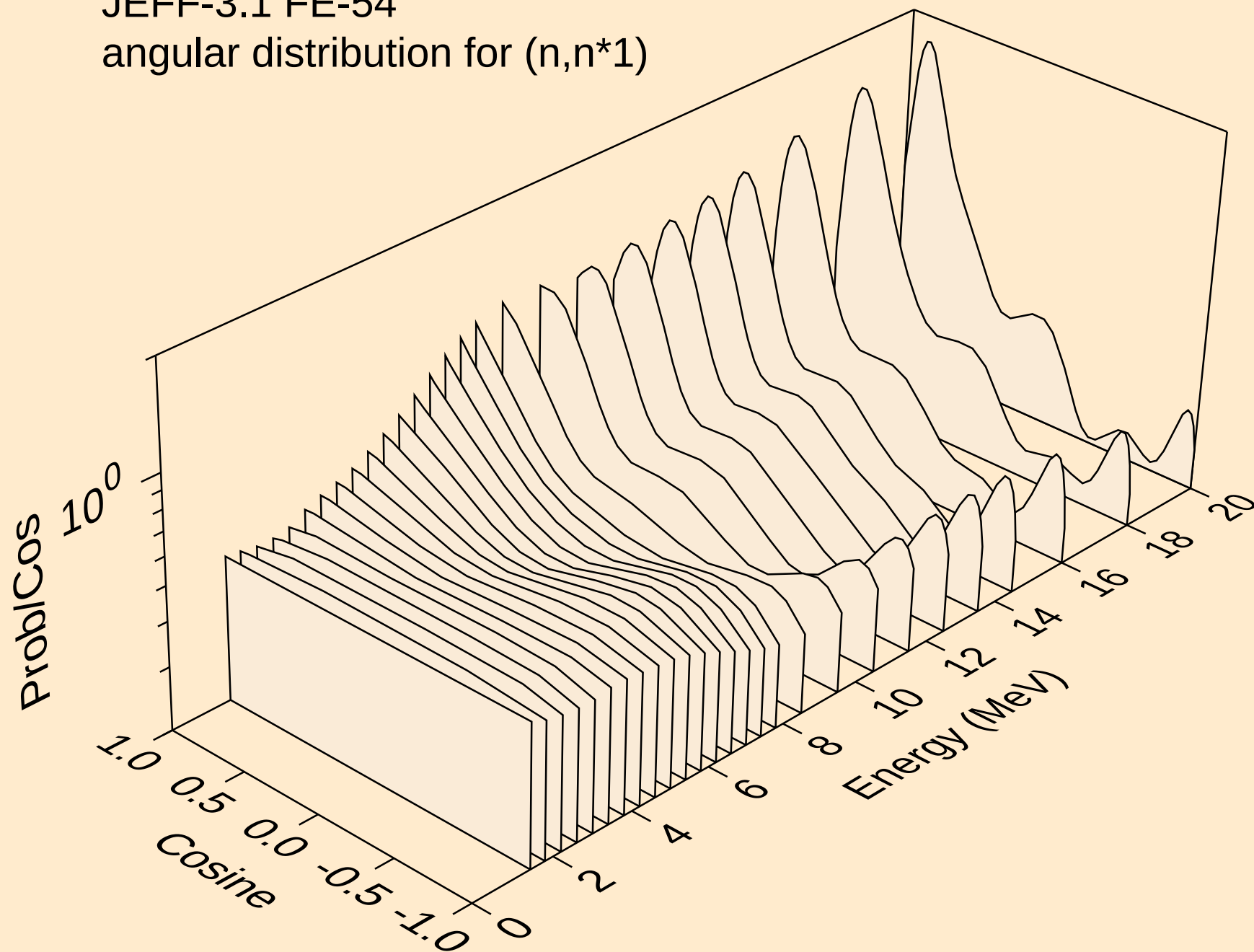
JEFF-3.1 FE-54
angular distribution for elastic



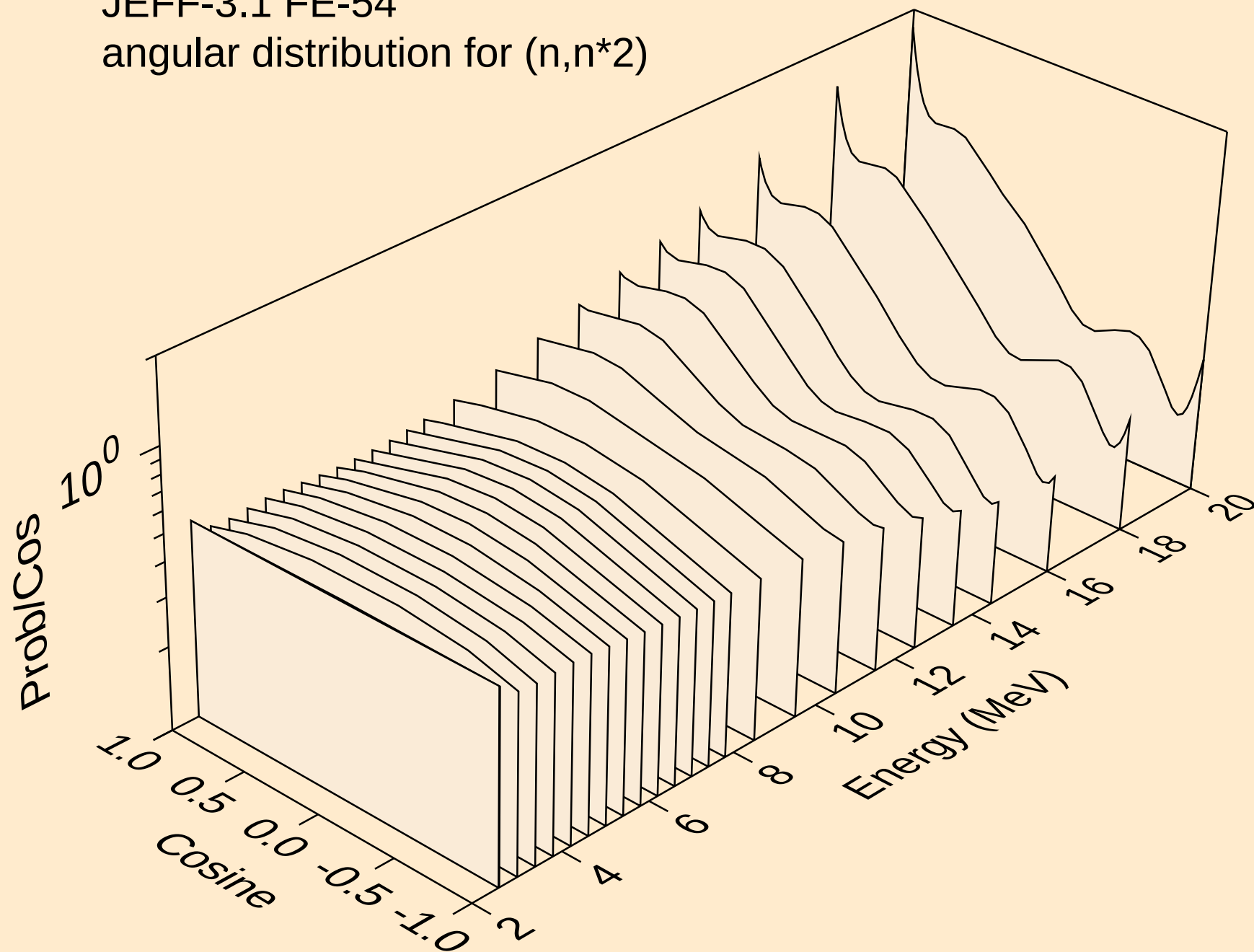
JEFF-3.1 FE-54
angular distribution for elastic



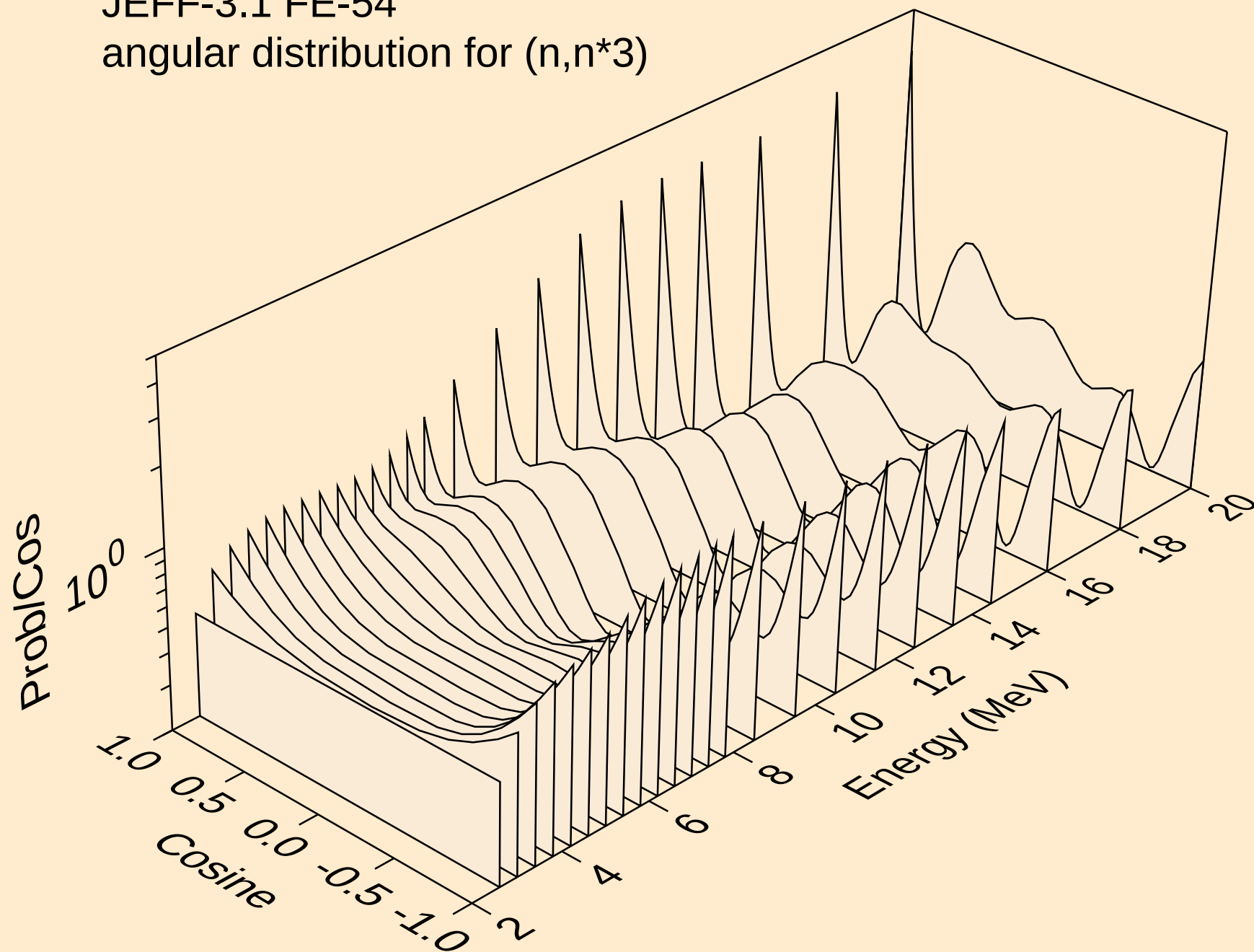
JEFF-3.1 FE-54
angular distribution for (n,n*1)



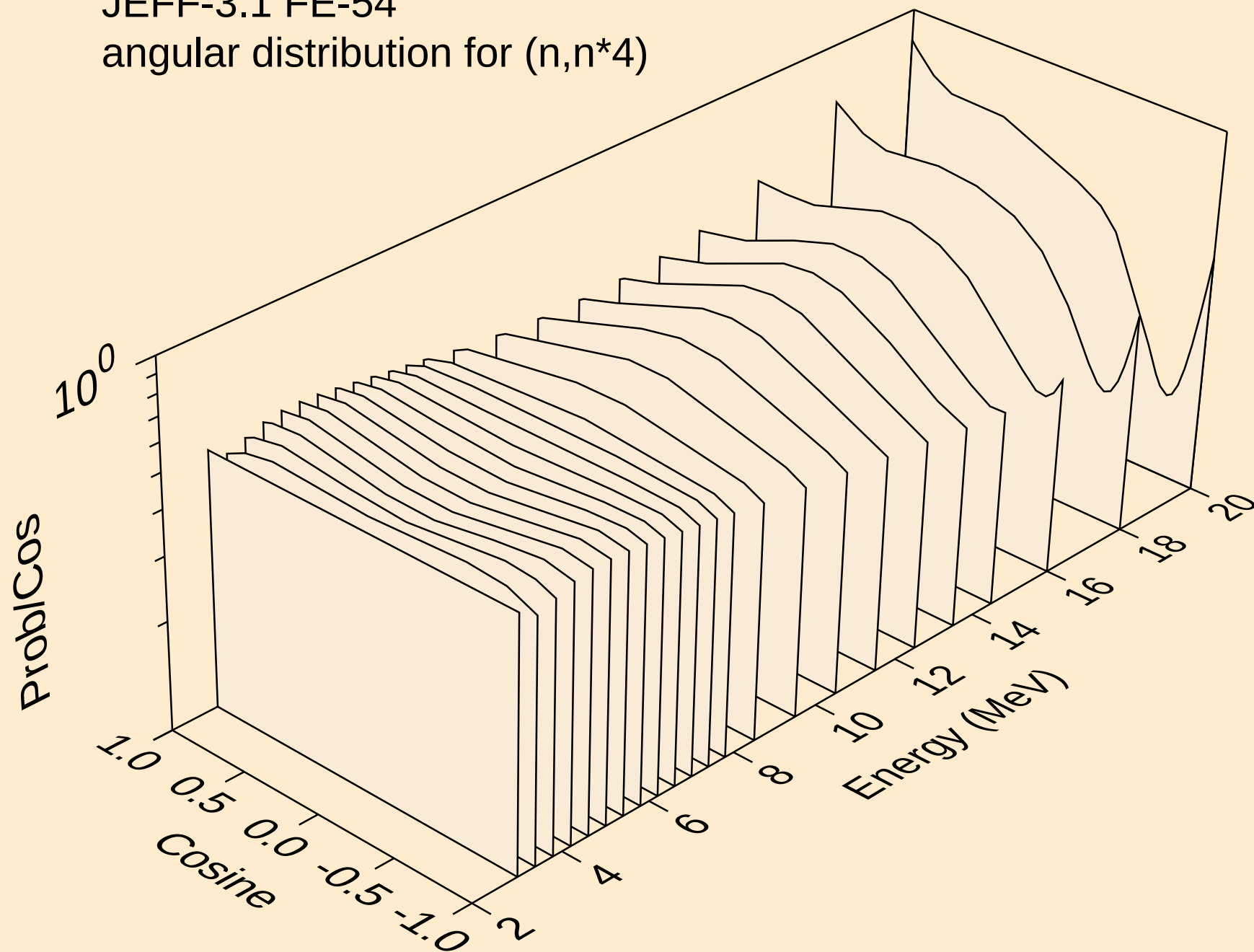
JEFF-3.1 FE-54
angular distribution for (n,n*)



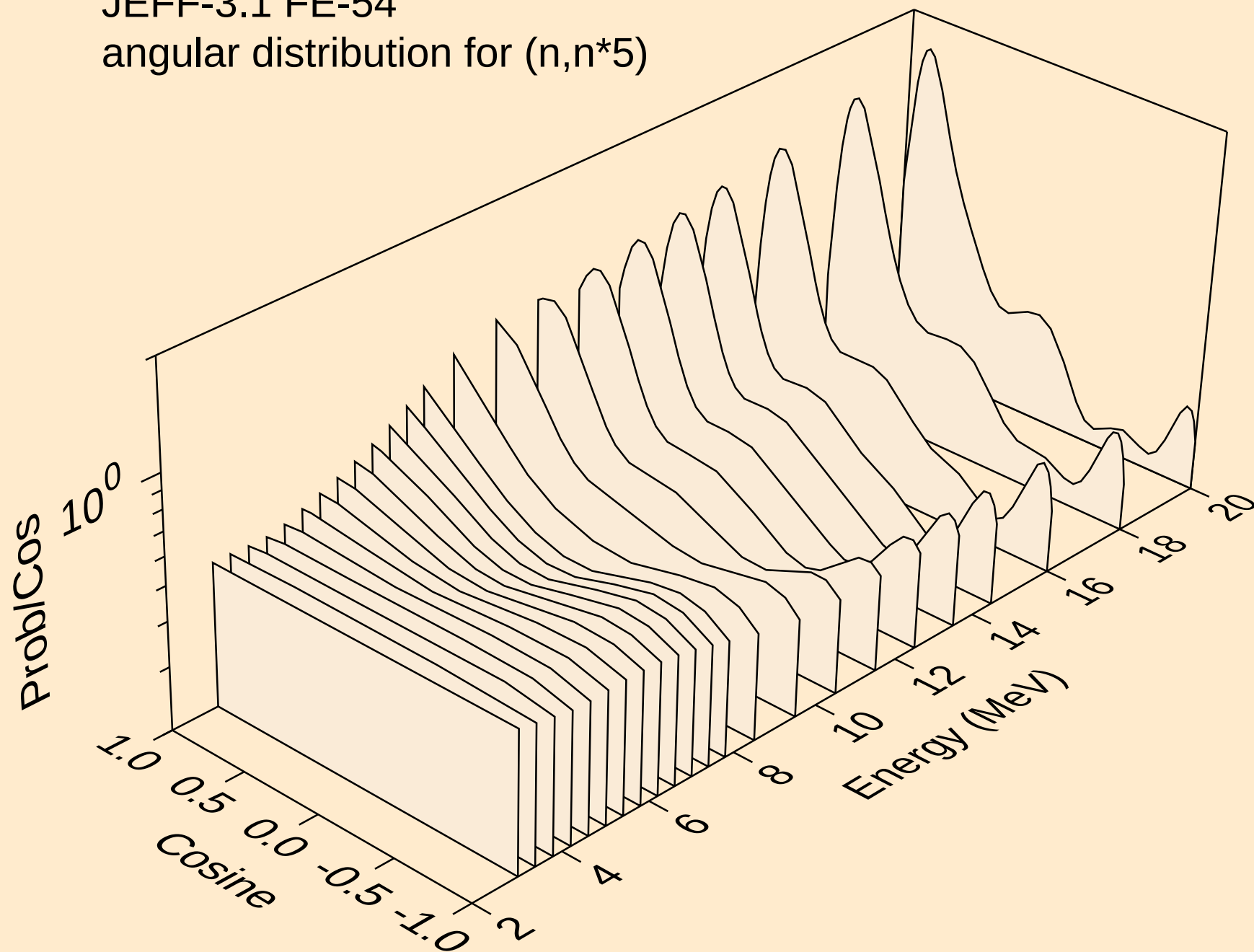
JEFF-3.1 FE-54
angular distribution for (n,n*3)



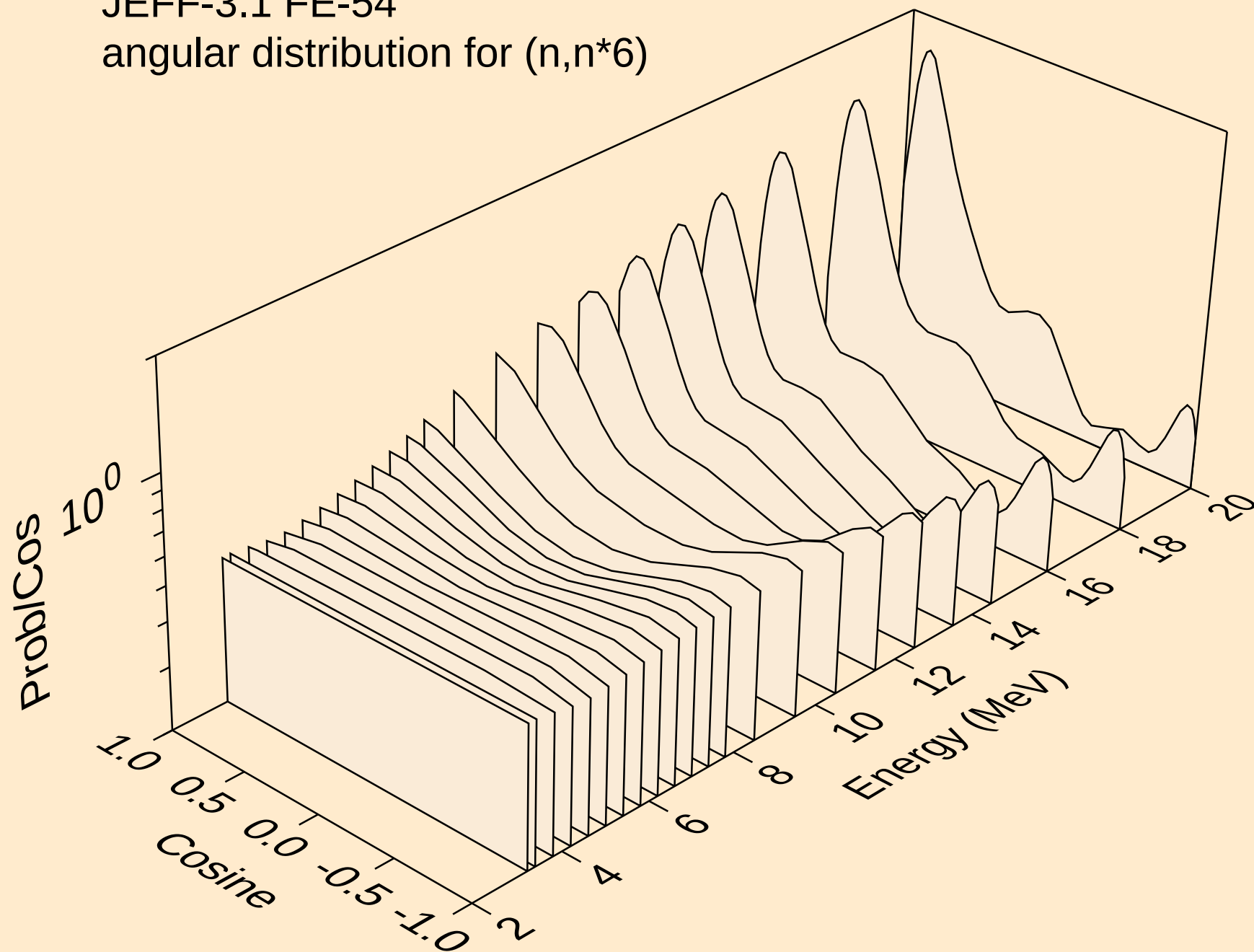
JEFF-3.1 FE-54
angular distribution for (n,n*4)



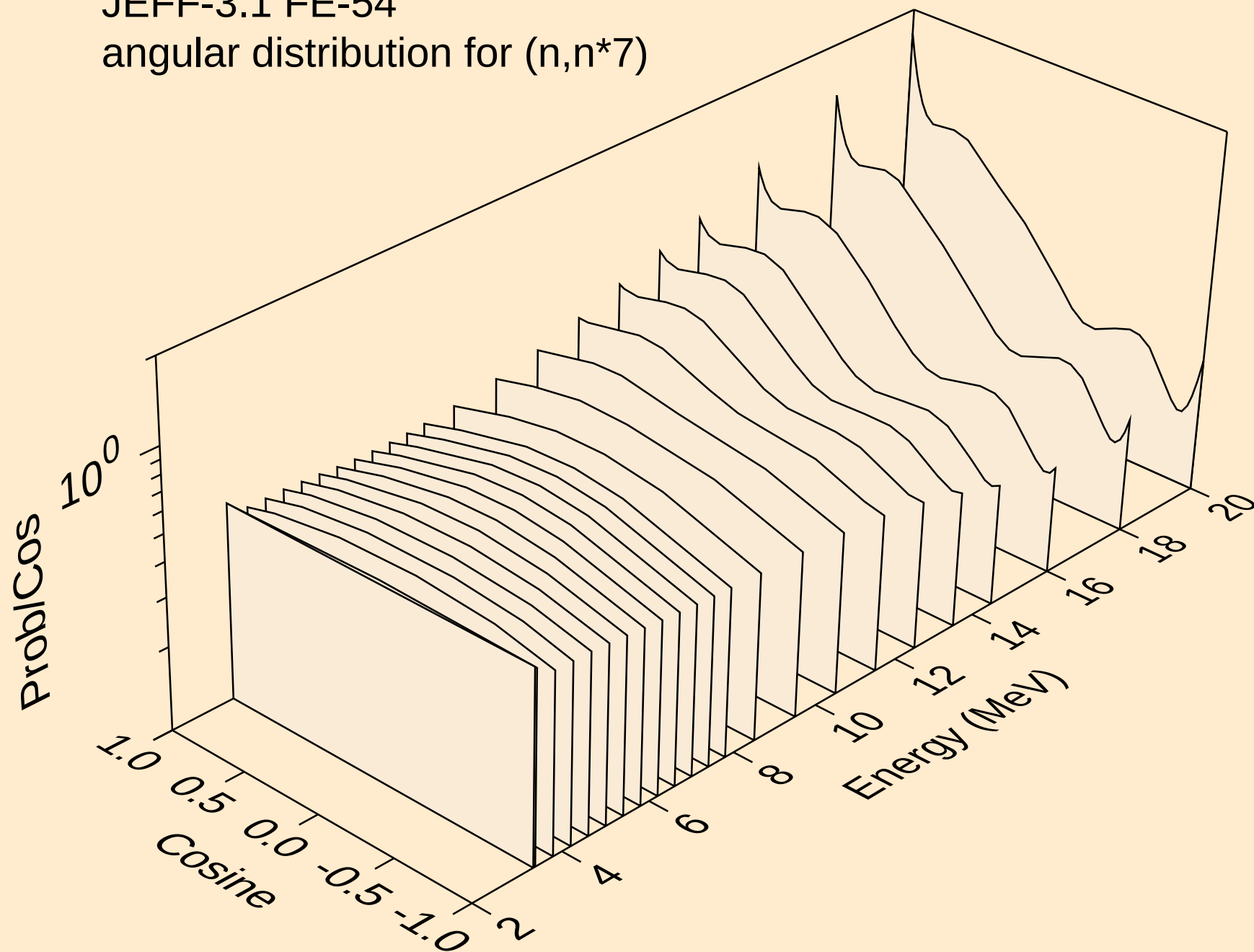
JEFF-3.1 FE-54
angular distribution for (n,n*5)



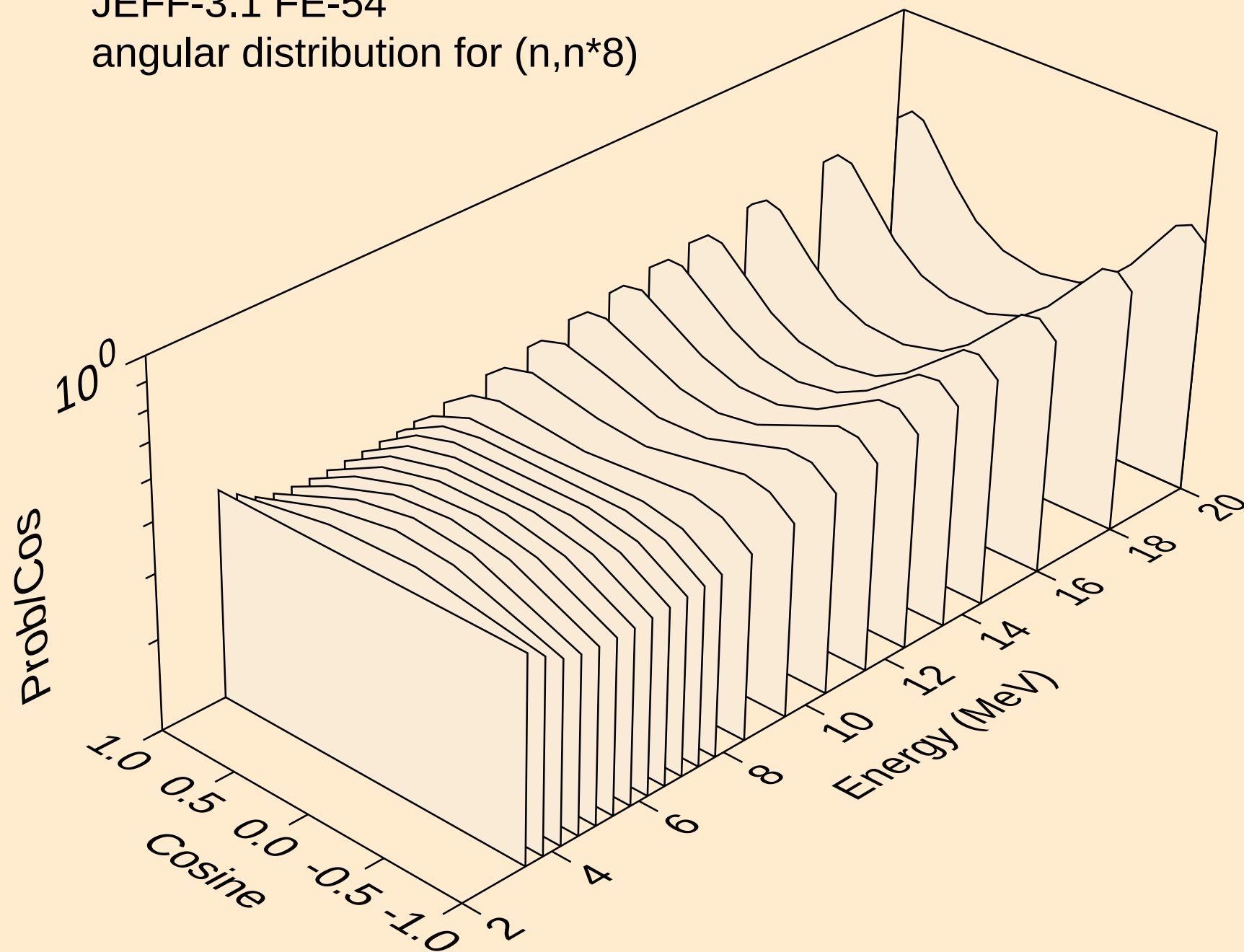
JEFF-3.1 FE-54
angular distribution for (n,n*6)



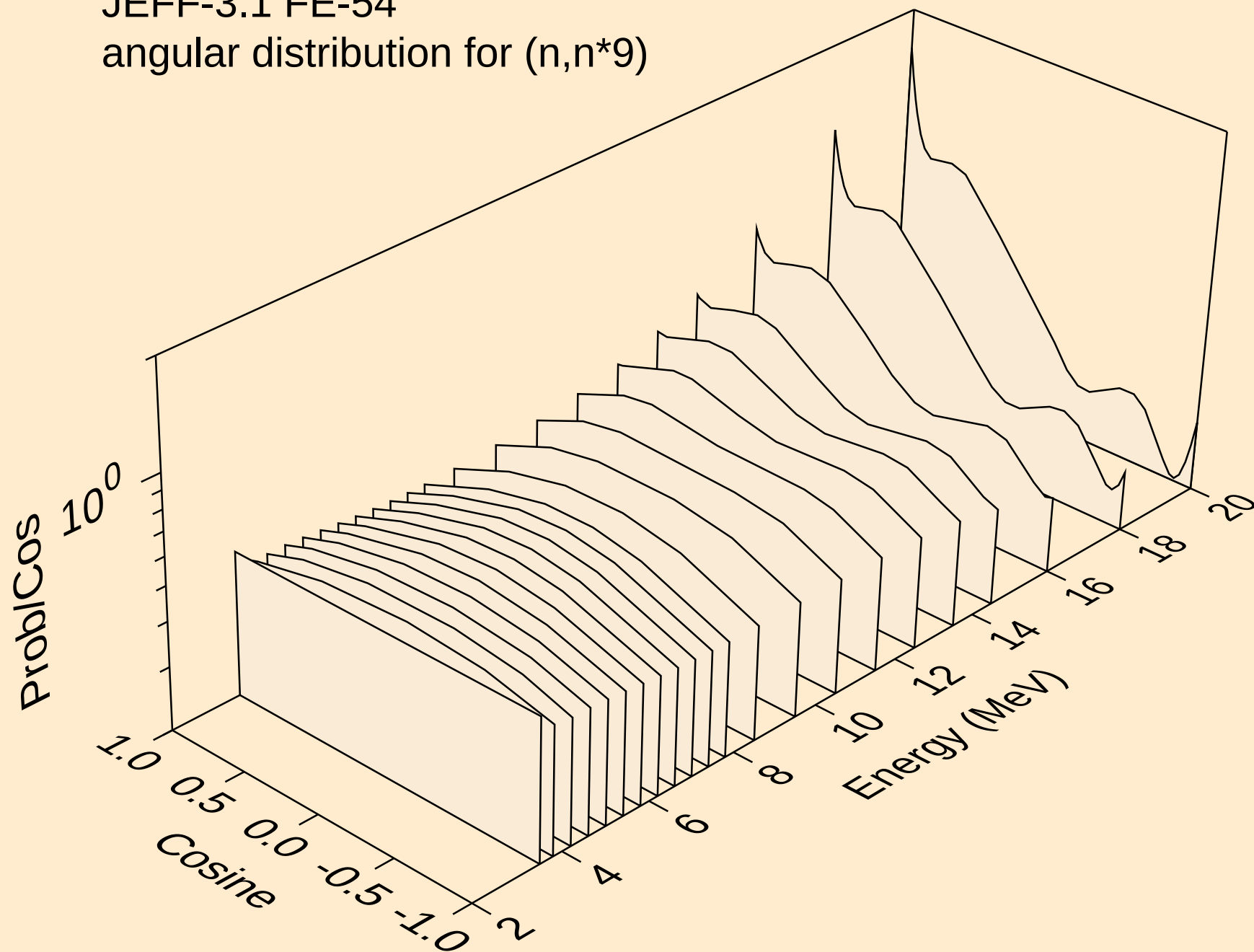
JEFF-3.1 FE-54
angular distribution for (n,n*7)



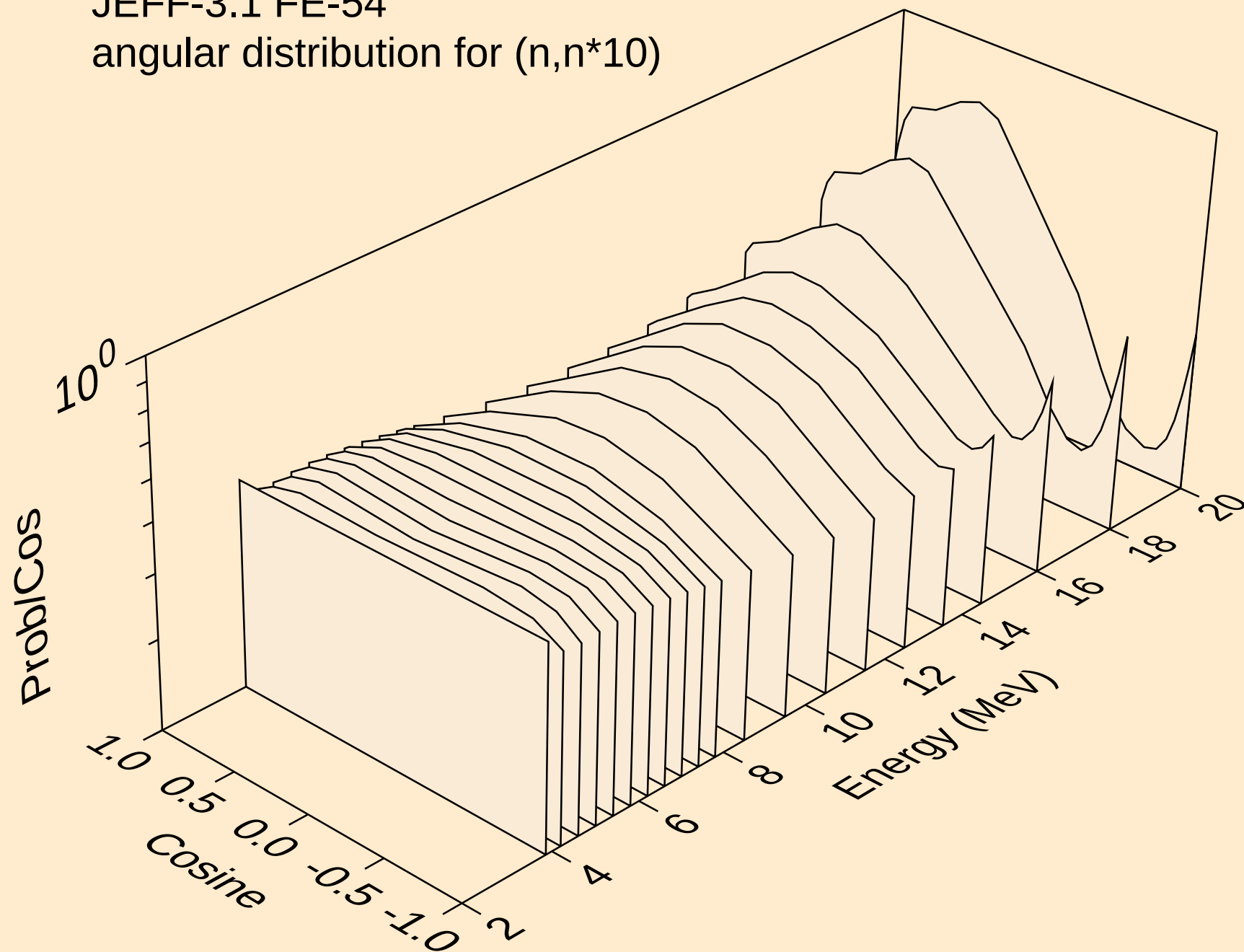
JEFF-3.1 FE-54
angular distribution for (n,n*8)



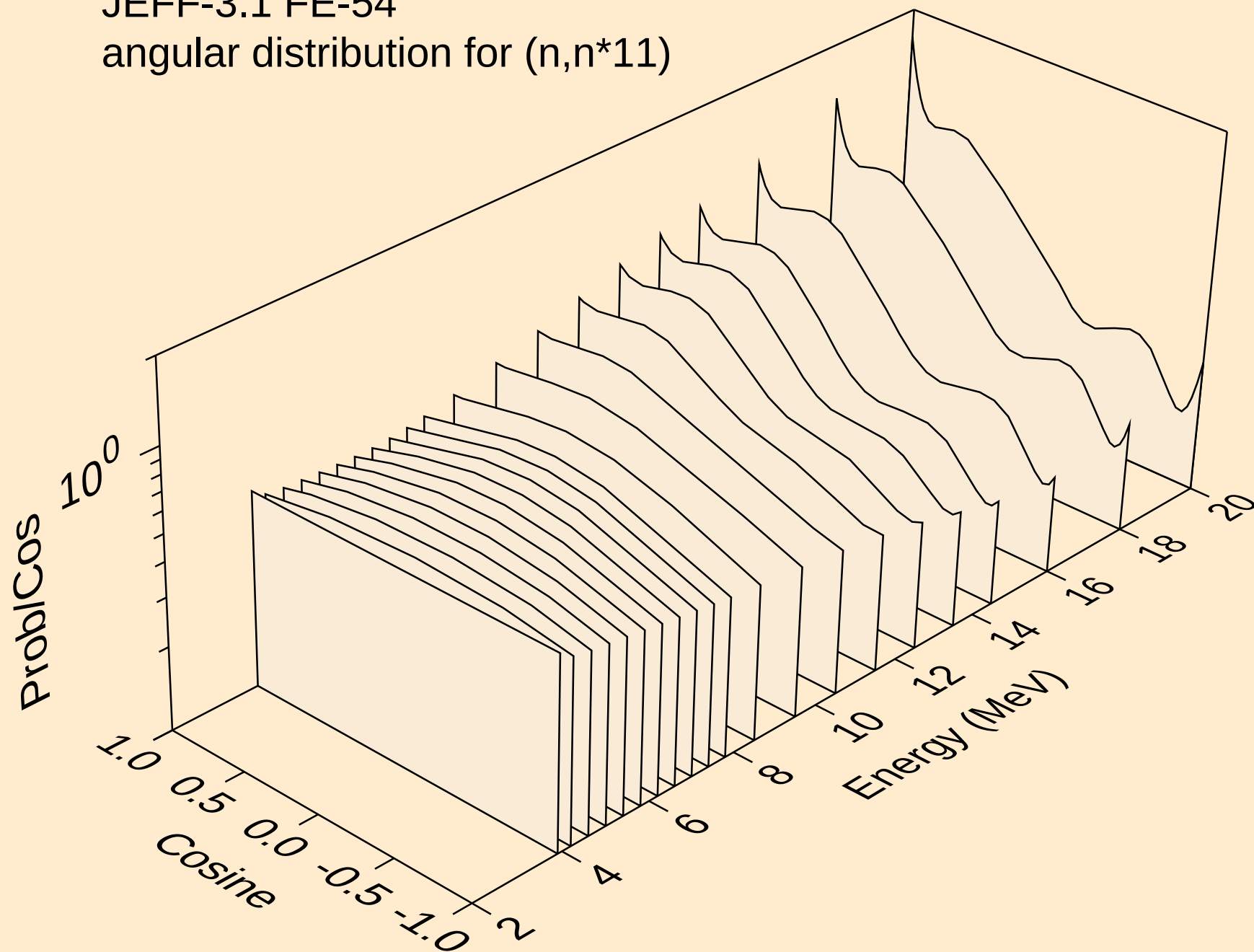
JEFF-3.1 FE-54
angular distribution for (n,n*9)



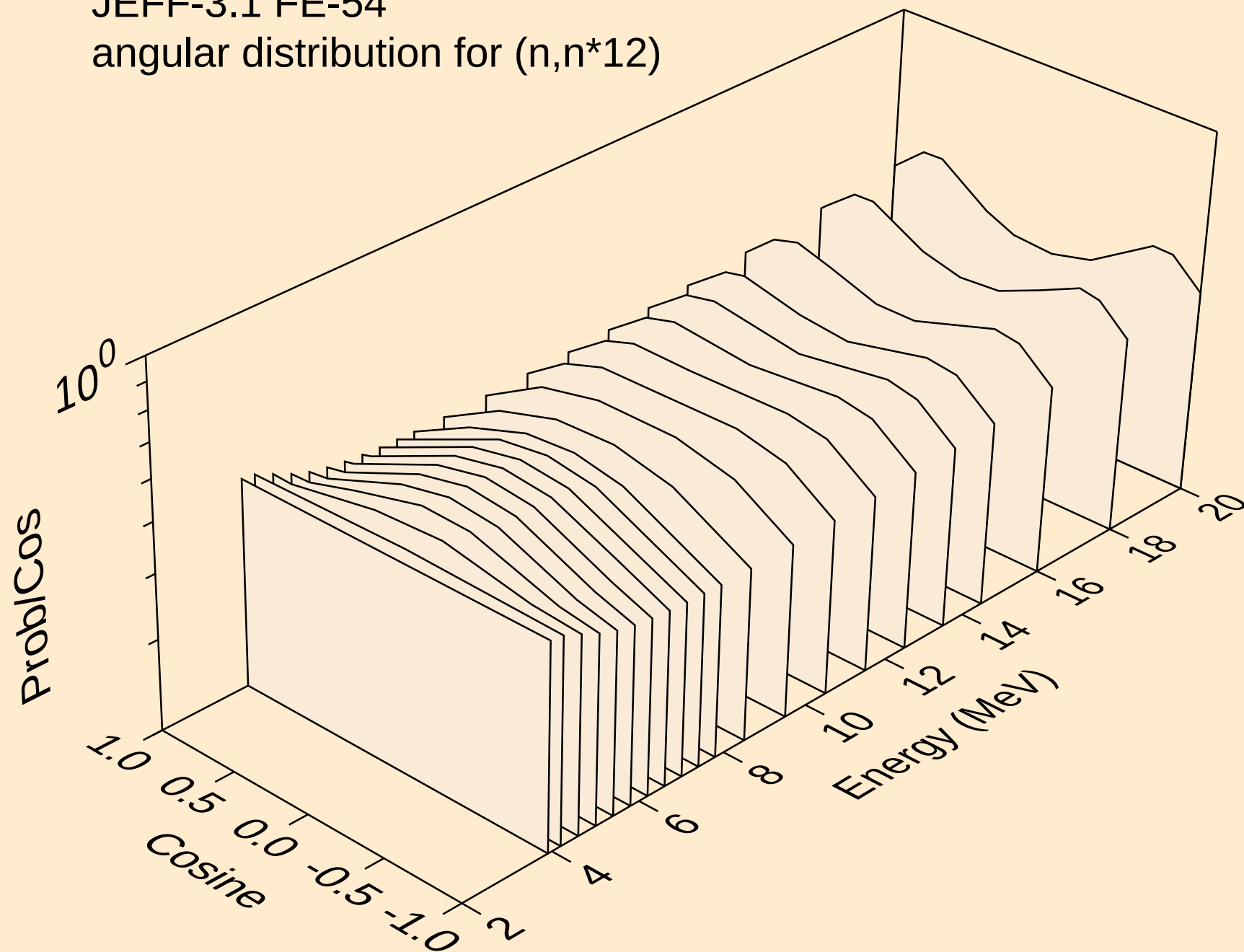
JEFF-3.1 FE-54
angular distribution for (n,n*10)



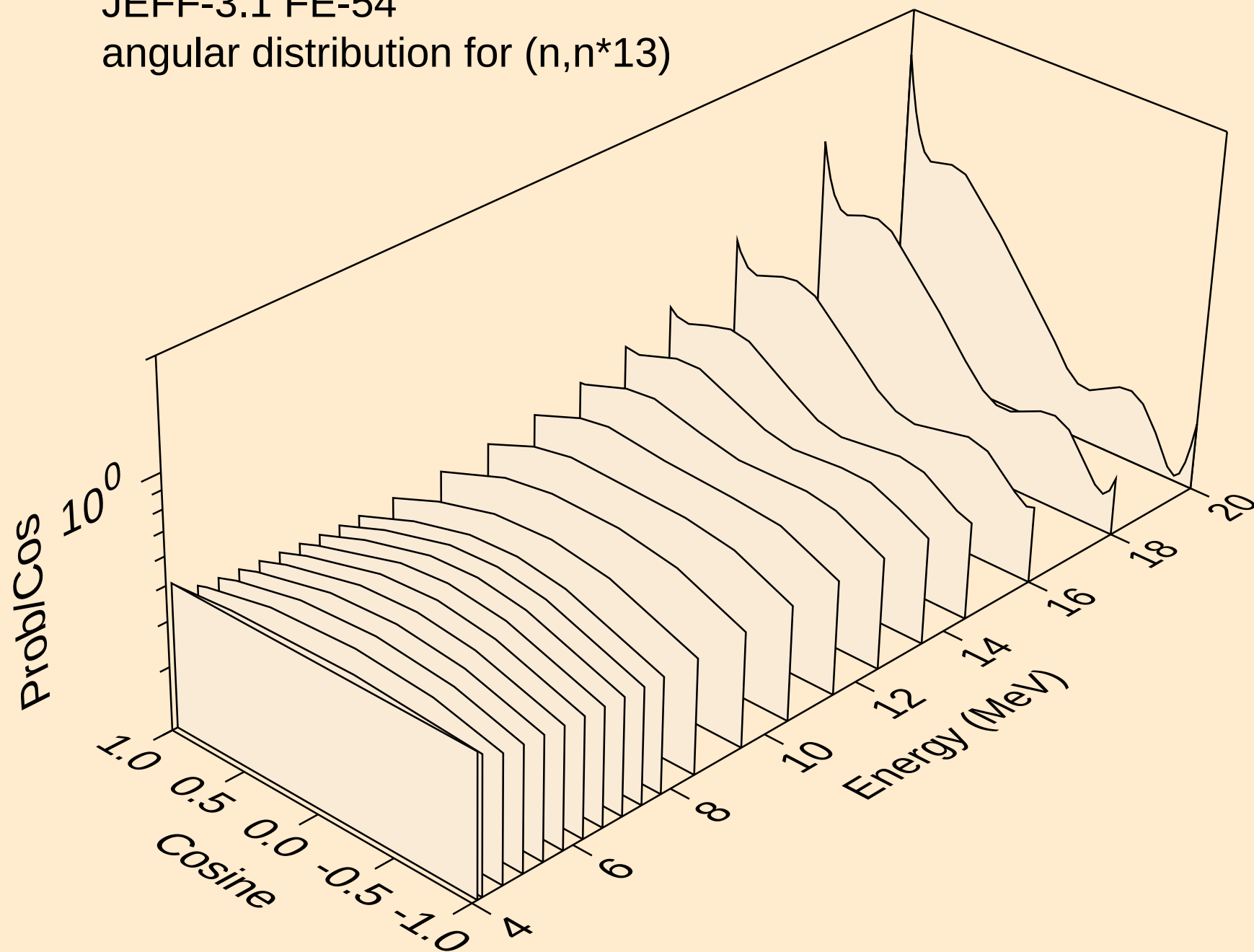
JEFF-3.1 FE-54
angular distribution for (n,n*11)



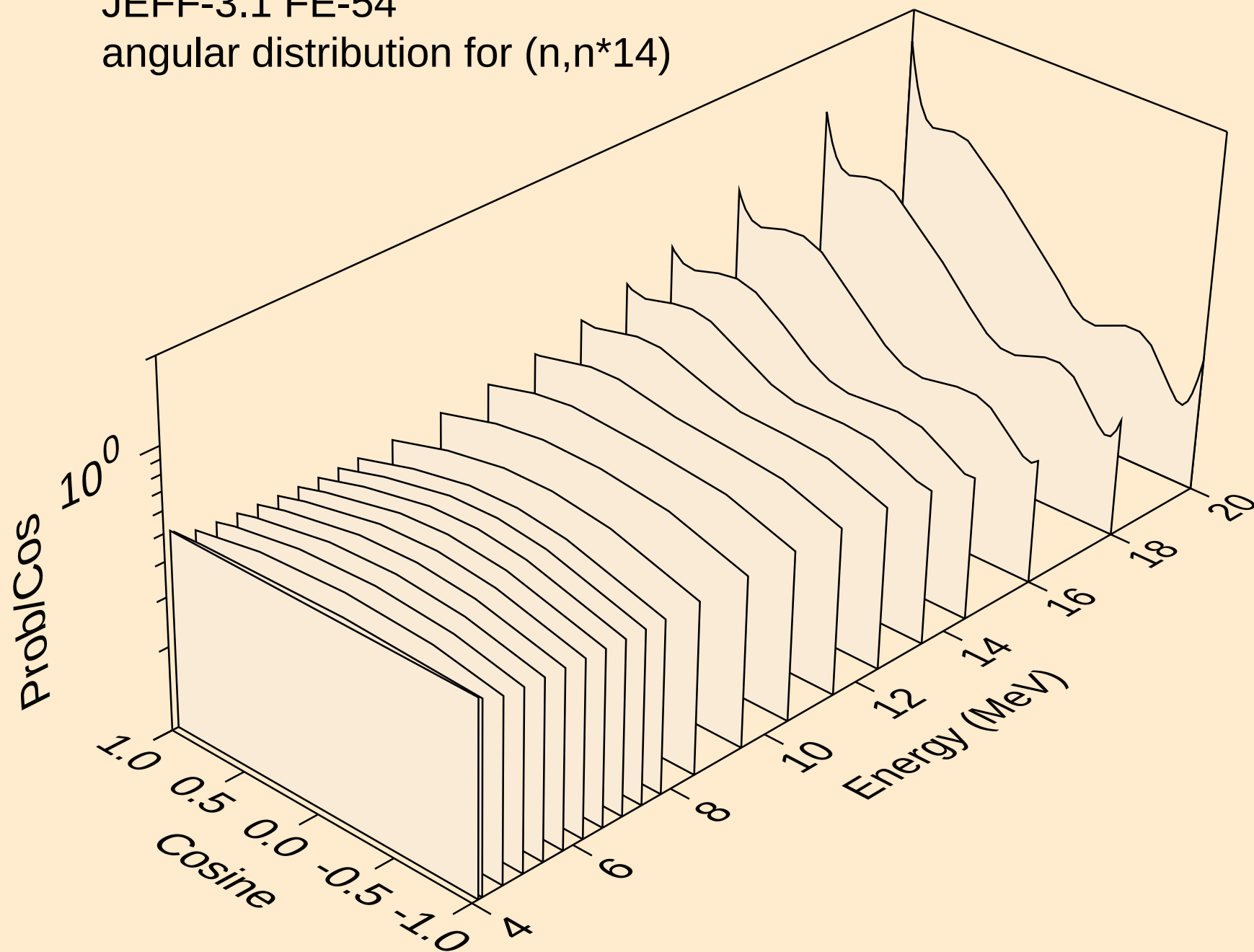
JEFF-3.1 FE-54
angular distribution for (n,n*12)



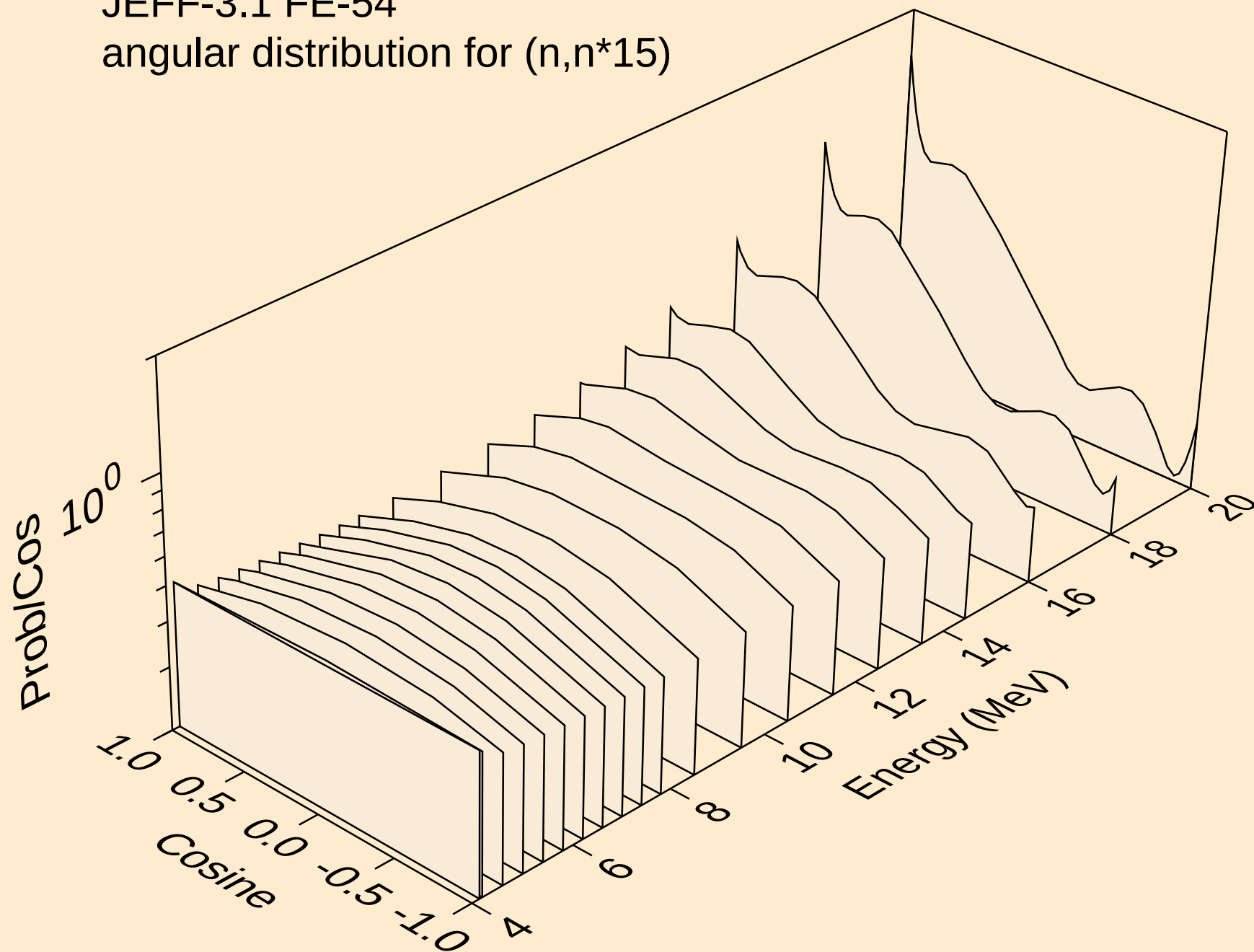
JEFF-3.1 FE-54
angular distribution for (n,n*13)



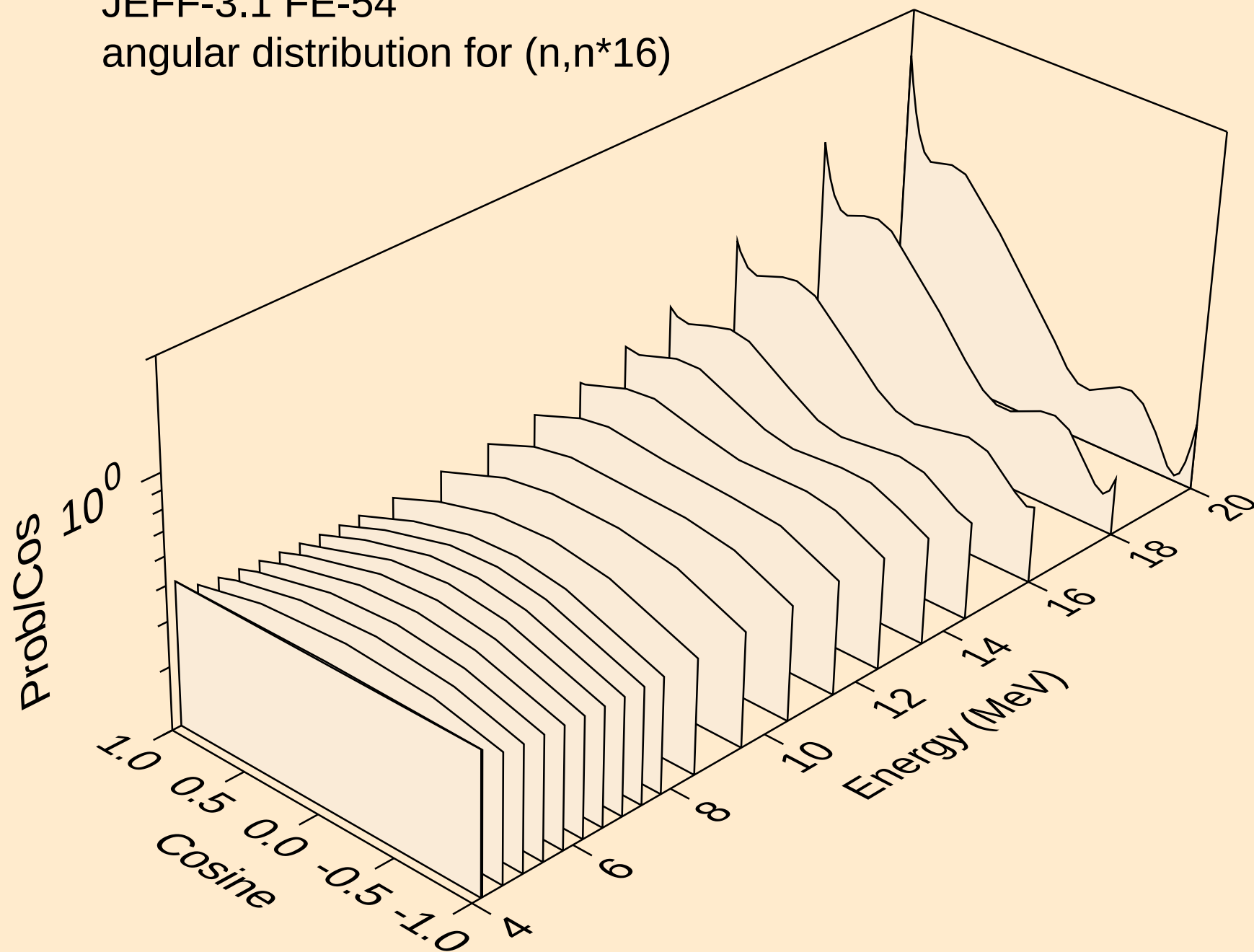
JEFF-3.1 FE-54
angular distribution for (n,n*14)



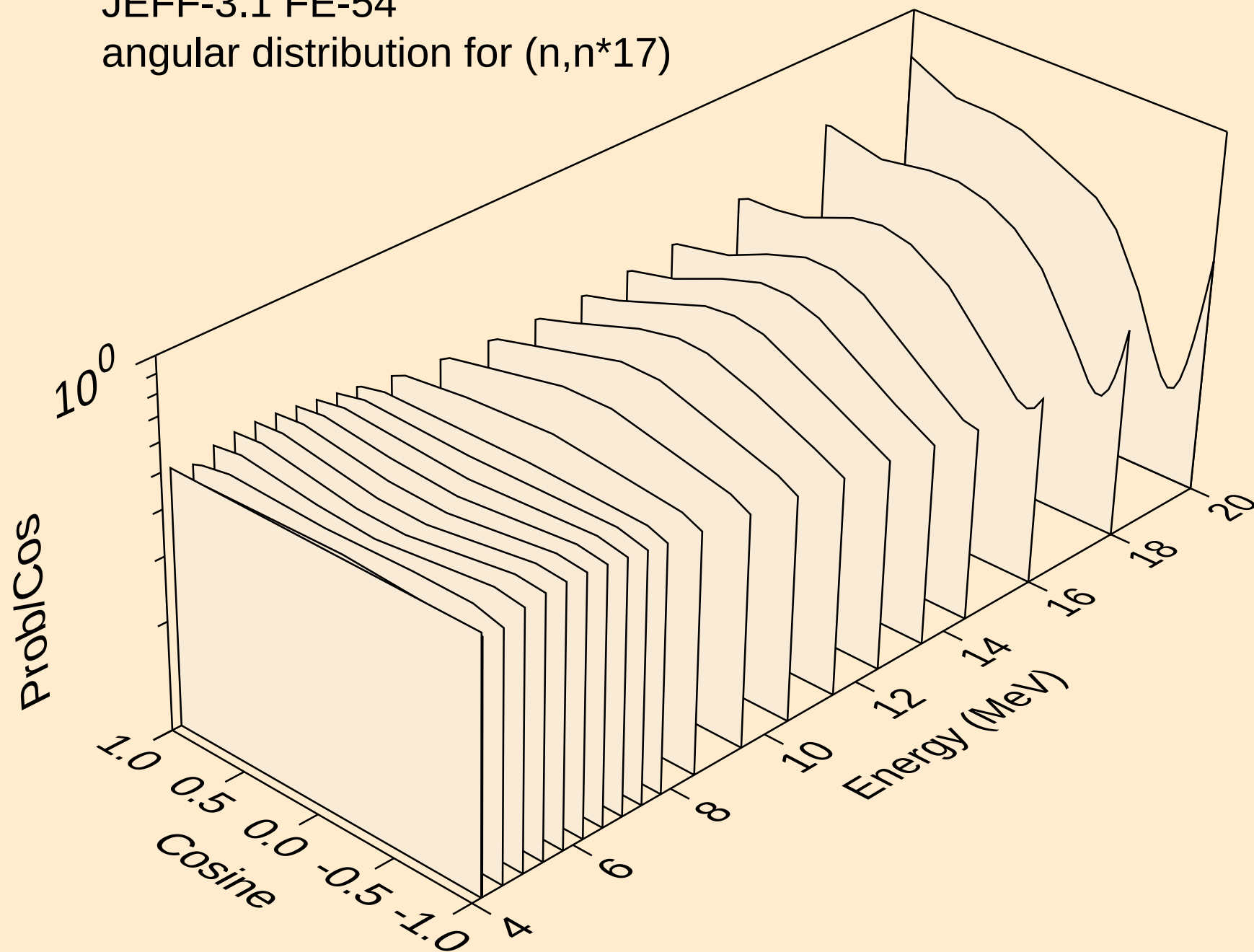
JEFF-3.1 FE-54
angular distribution for (n,n*15)



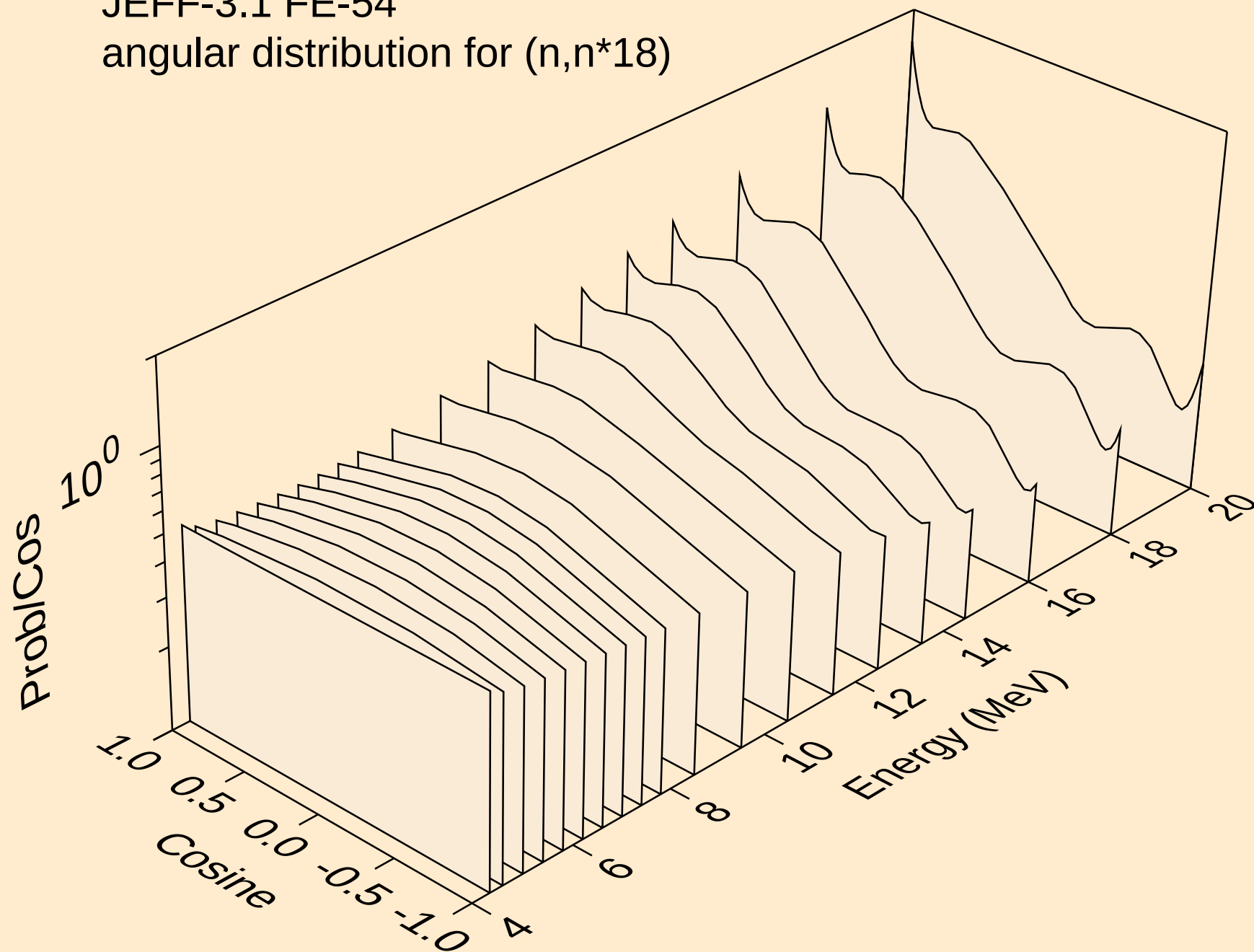
JEFF-3.1 FE-54
angular distribution for (n,n*16)



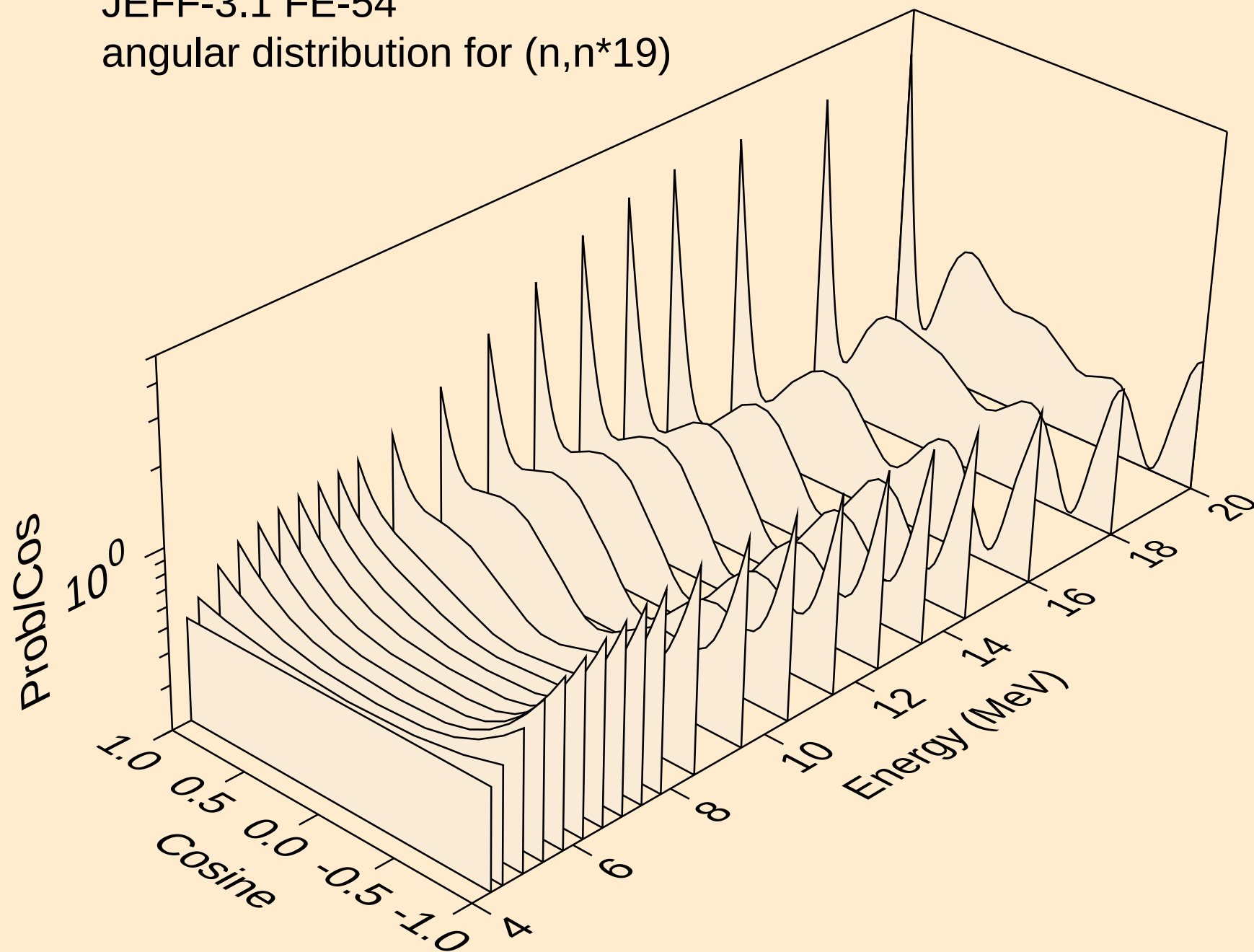
JEFF-3.1 FE-54
angular distribution for (n,n*17)



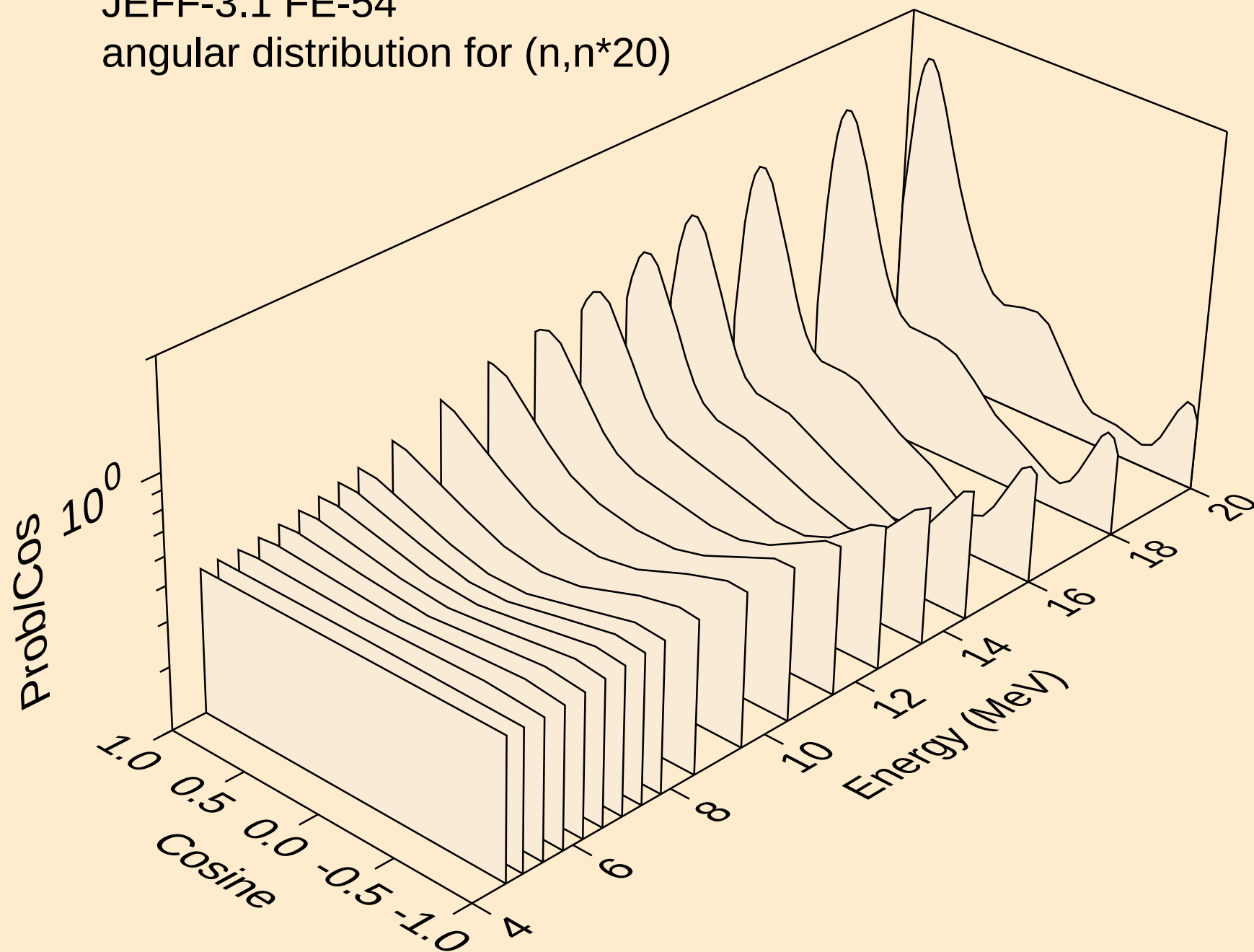
JEFF-3.1 FE-54
angular distribution for (n,n*18)



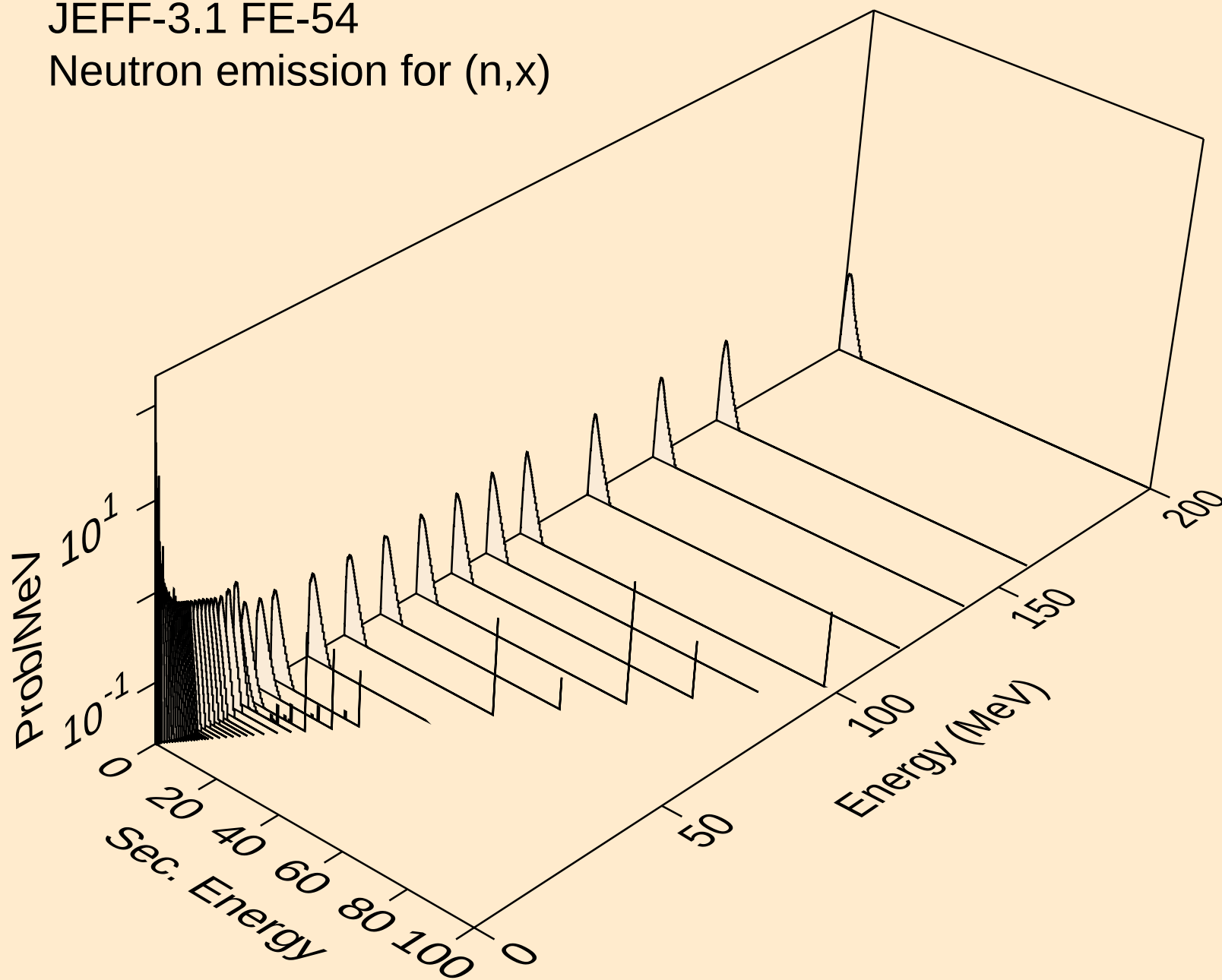
JEFF-3.1 FE-54
angular distribution for (n,n*19)



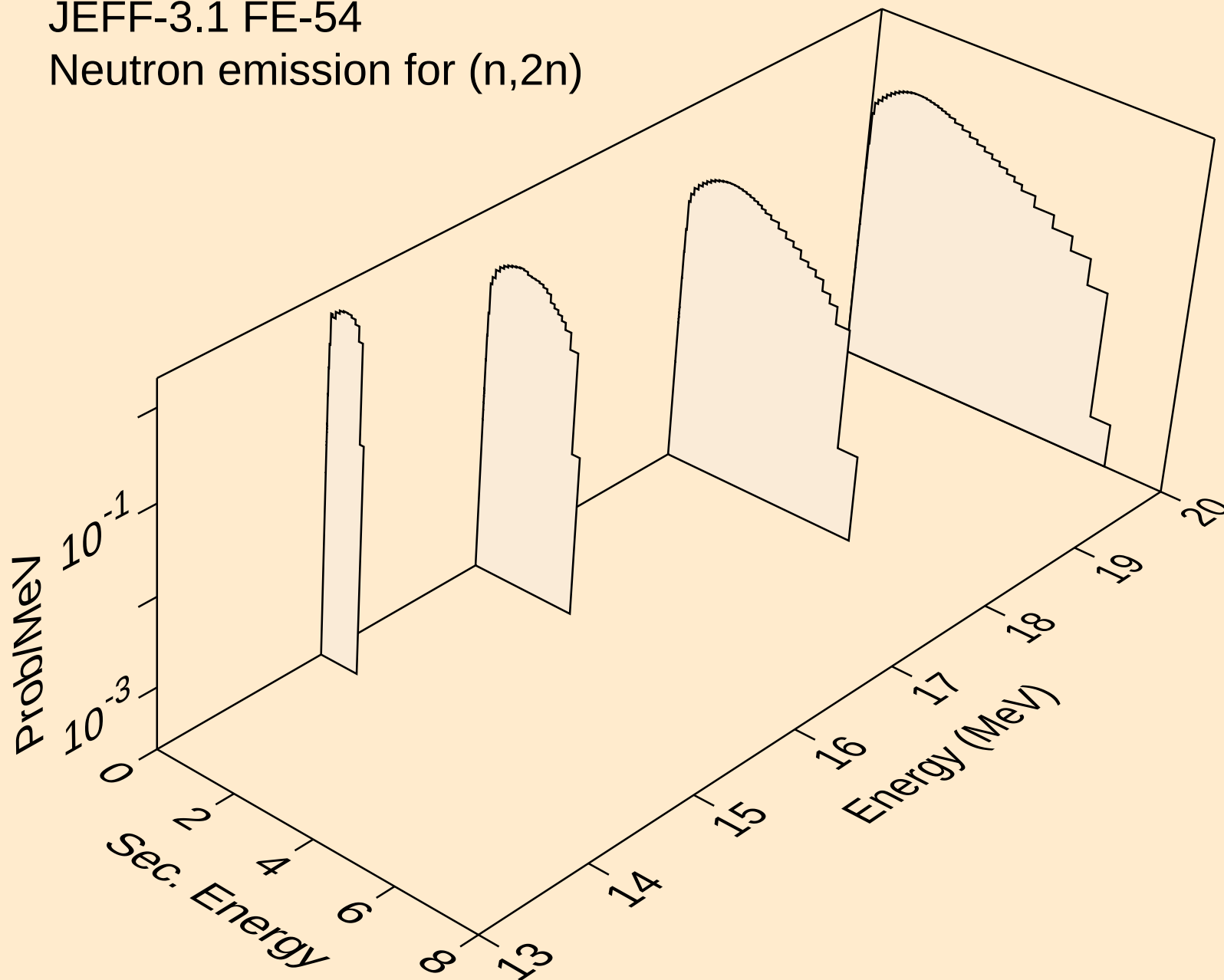
JEFF-3.1 FE-54
angular distribution for (n,n*20)



JEFF-3.1 FE-54
Neutron emission for (n,x)

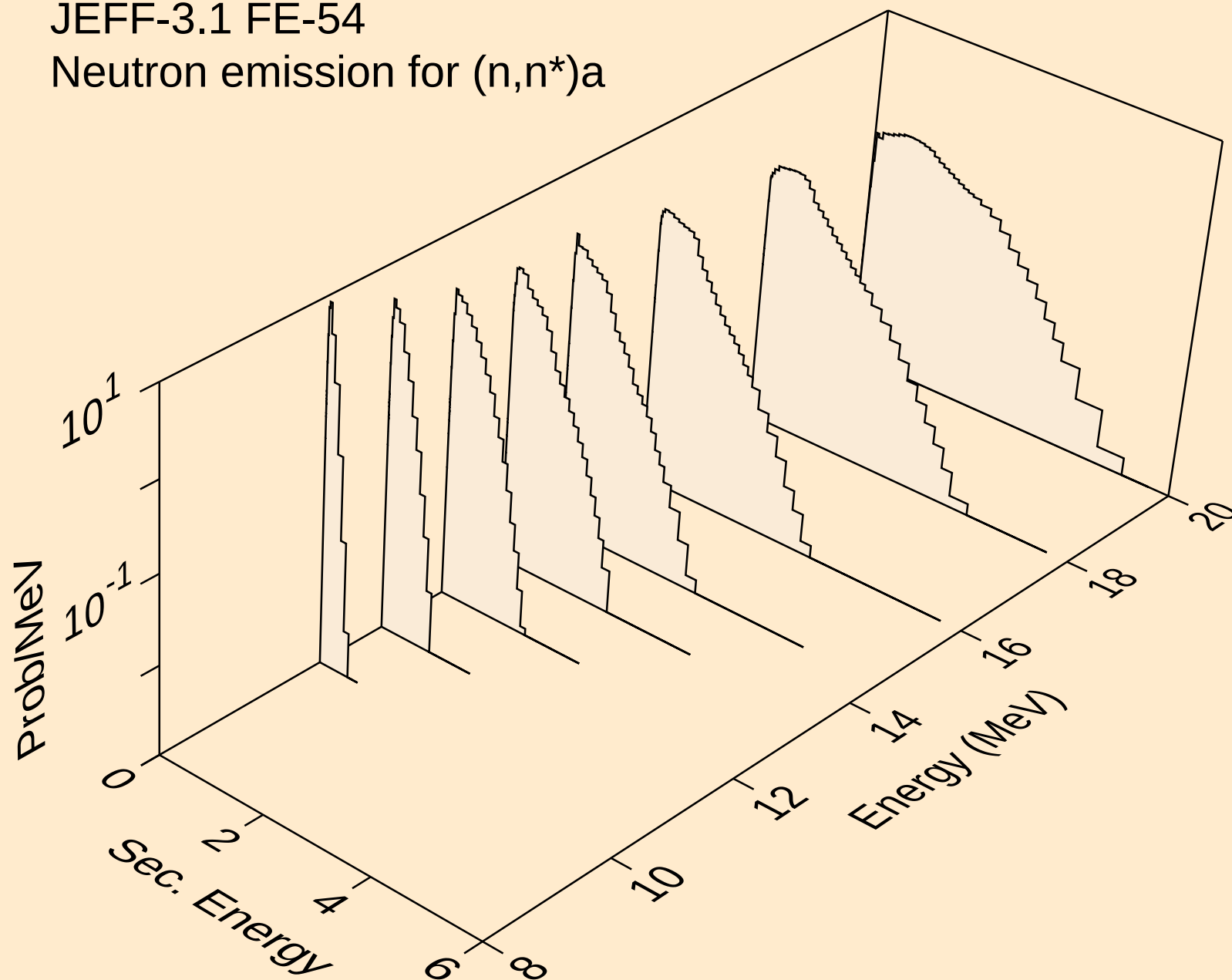


JEFF-3.1 FE-54
Neutron emission for (n,2n)



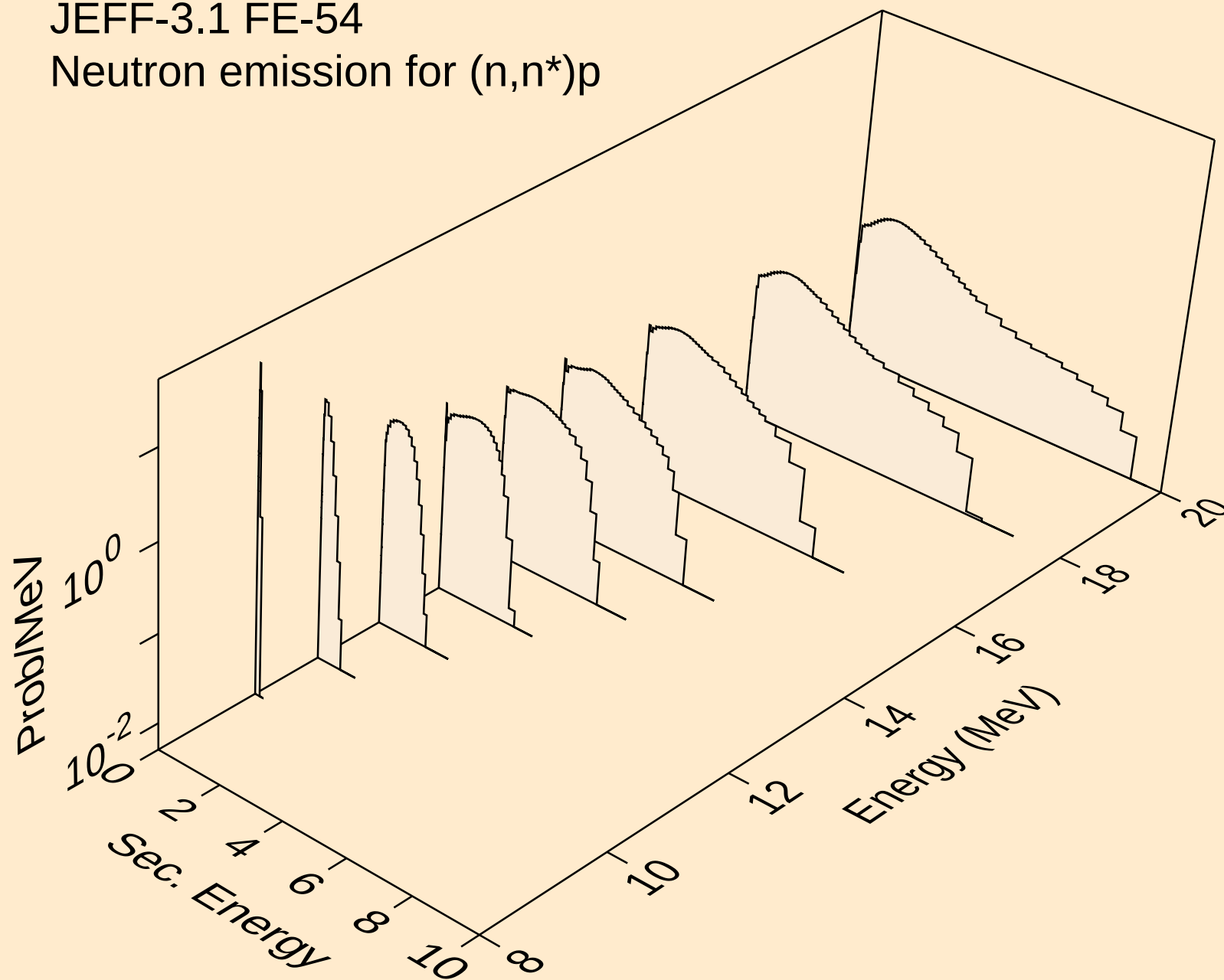
JEFF-3.1 FE-54

Neutron emission for (n,n*)a

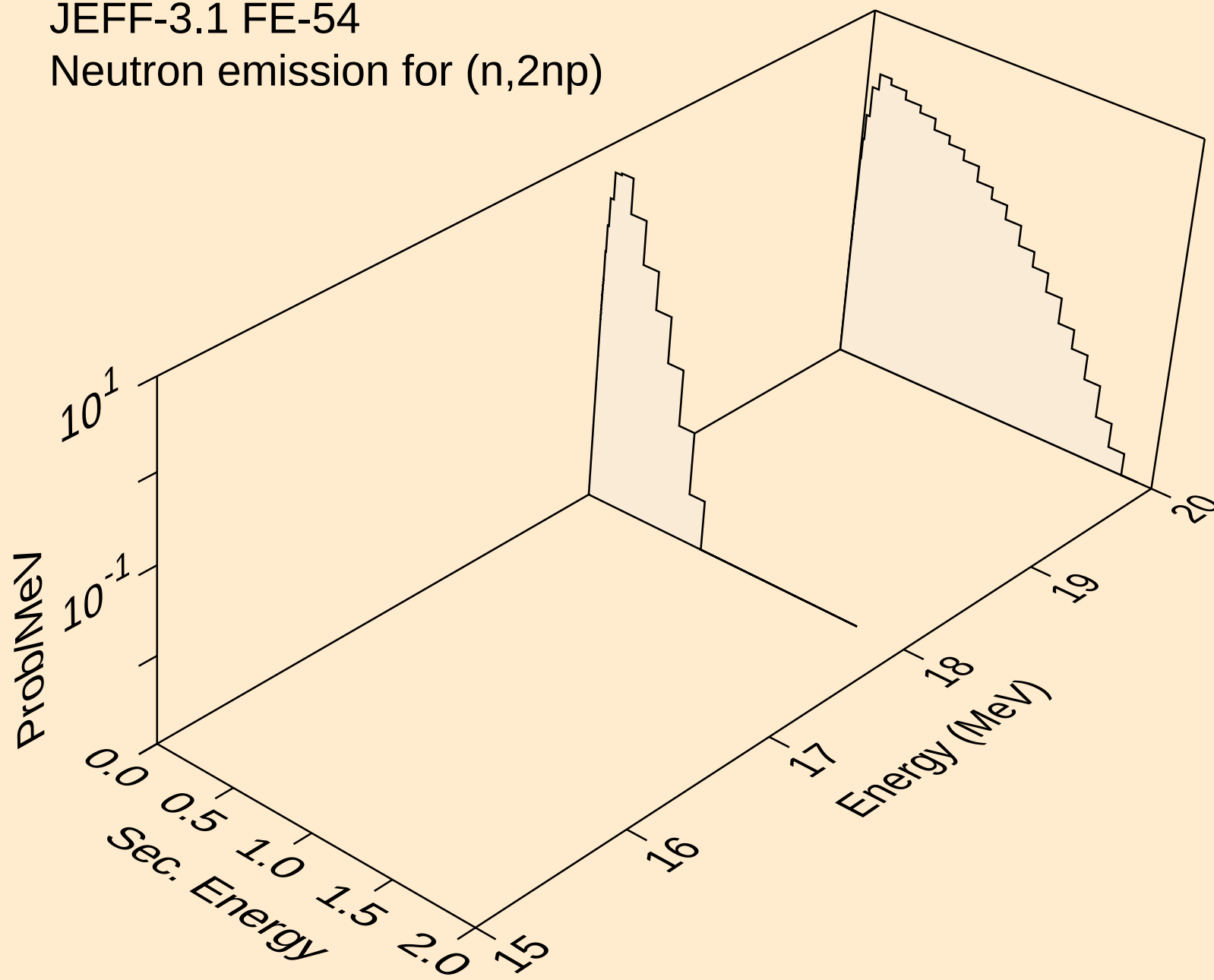


JEFF-3.1 FE-54

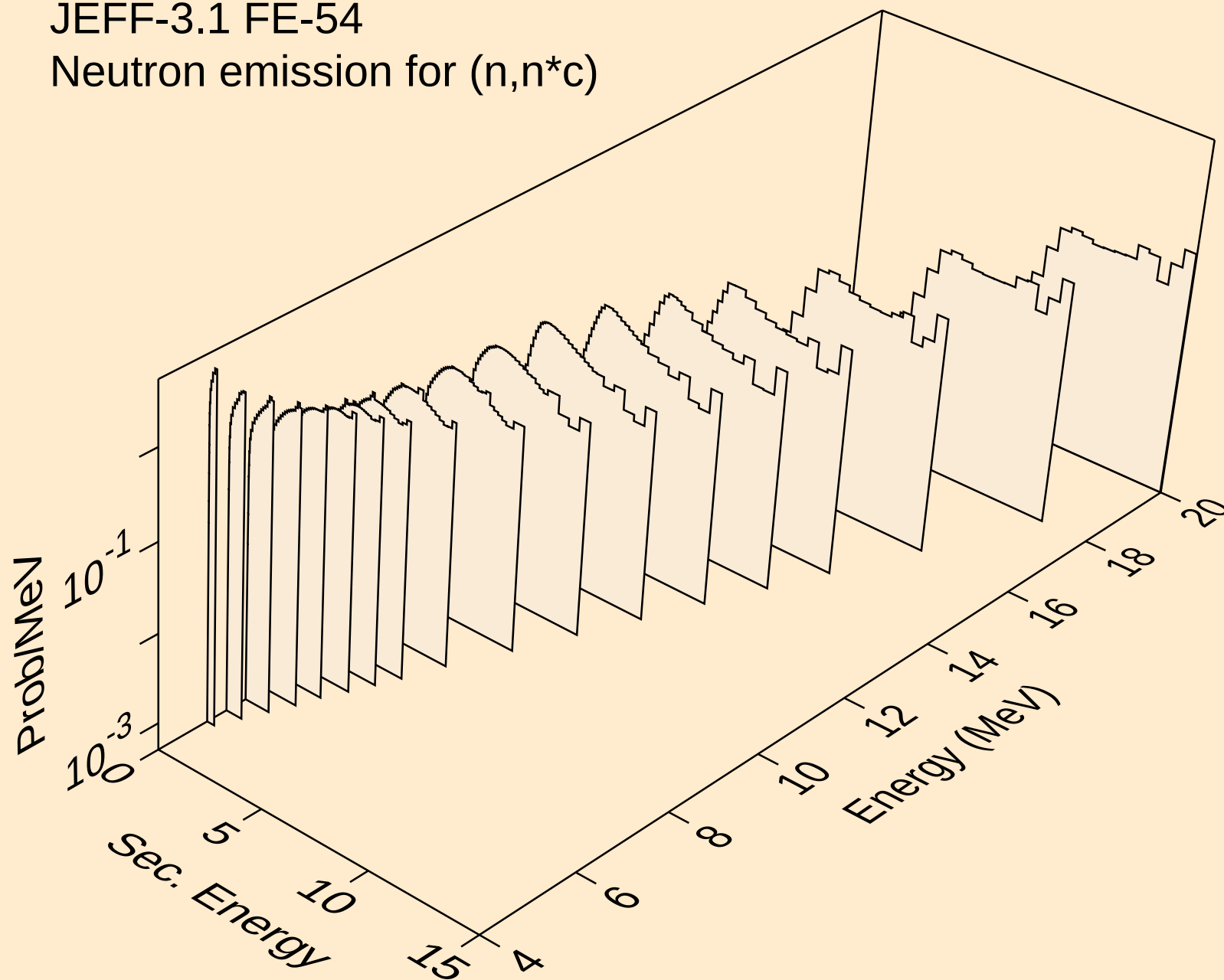
Neutron emission for (n,n*)p



JEFF-3.1 FE-54
Neutron emission for (n,2np)

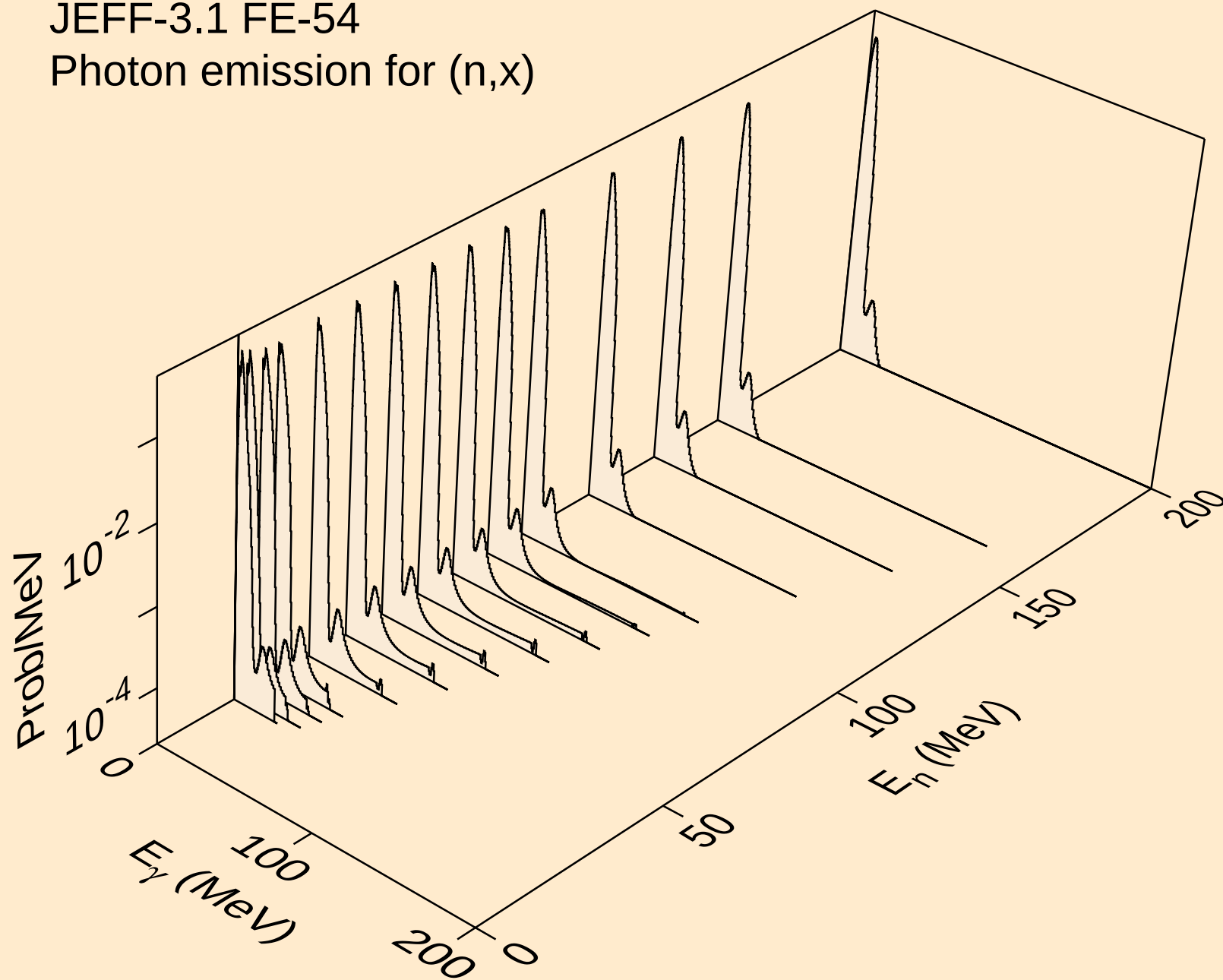


JEFF-3.1 FE-54
Neutron emission for (n,n*c)



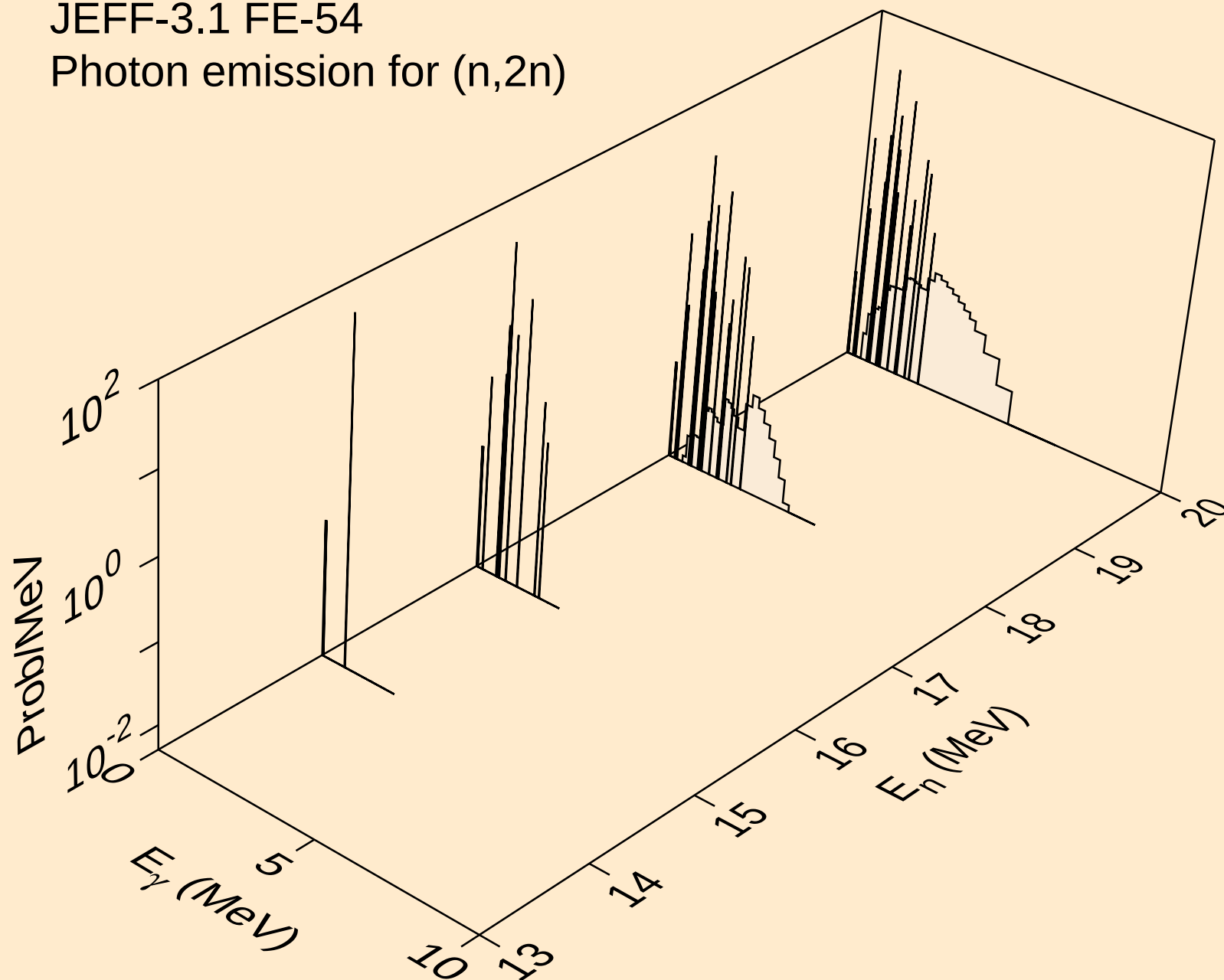
JEFF-3.1 FE-54

Photon emission for (n,x)



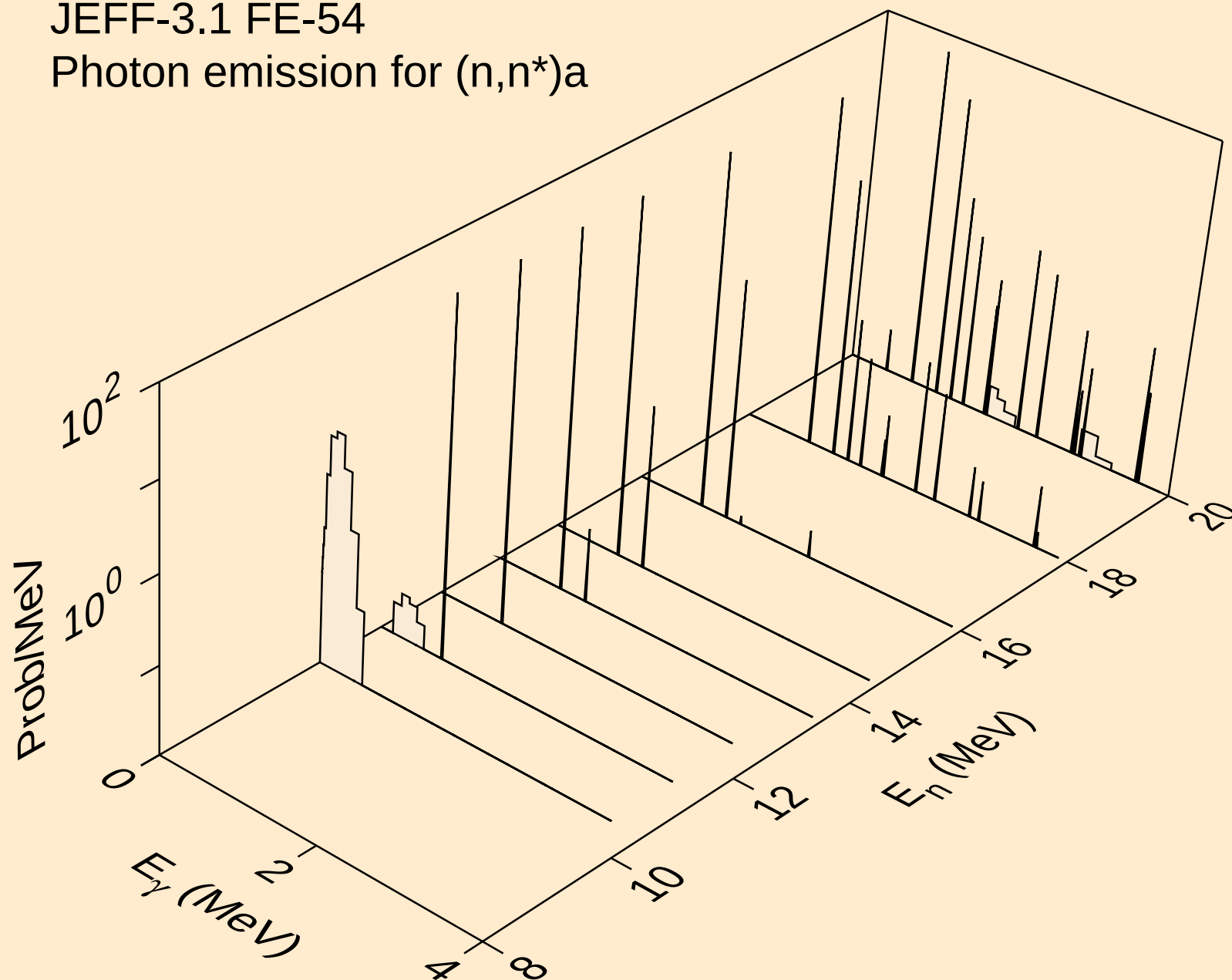
JEFF-3.1 FE-54

Photon emission for (n,2n)



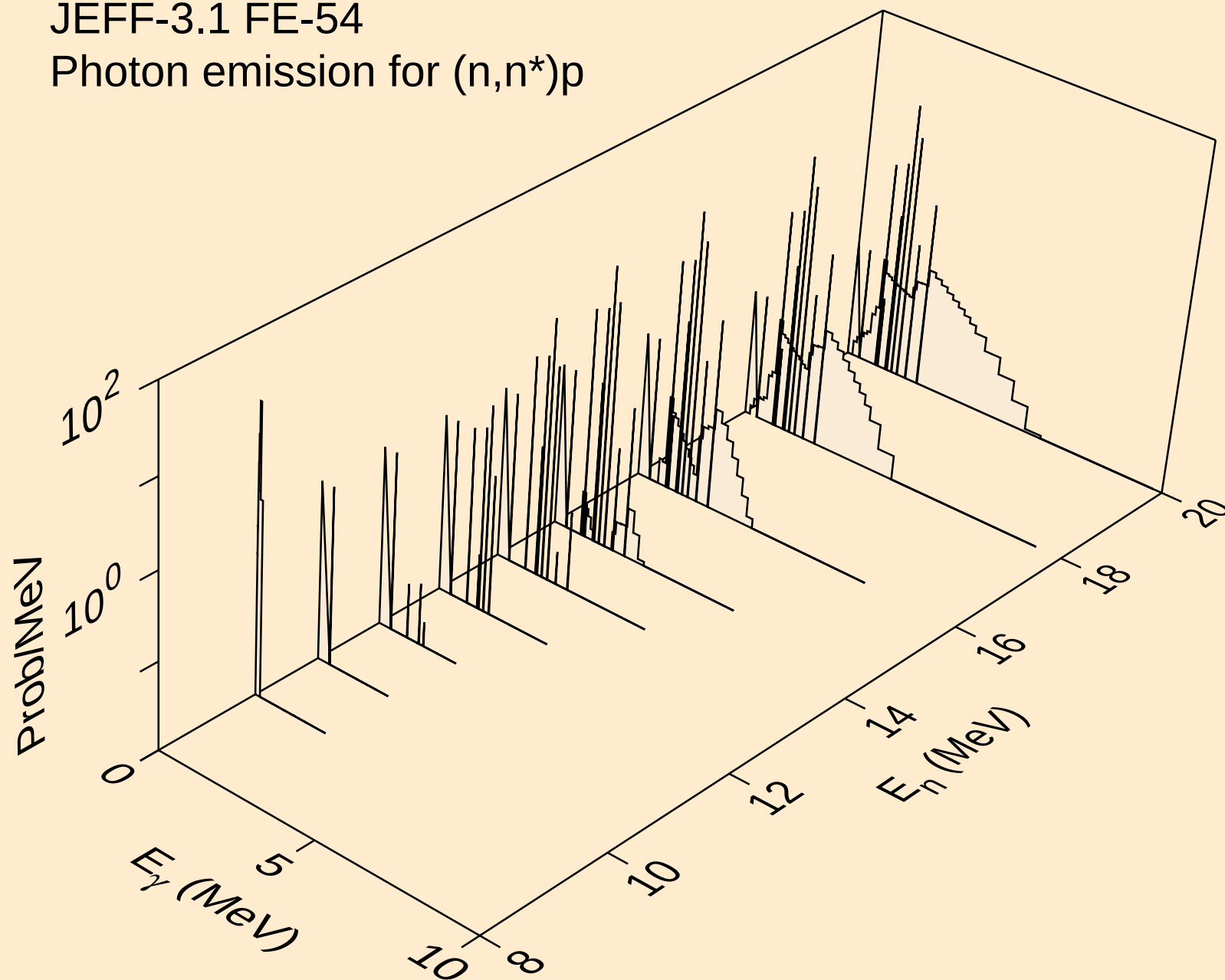
JEFF-3.1 FE-54

Photon emission for (n,n*)a



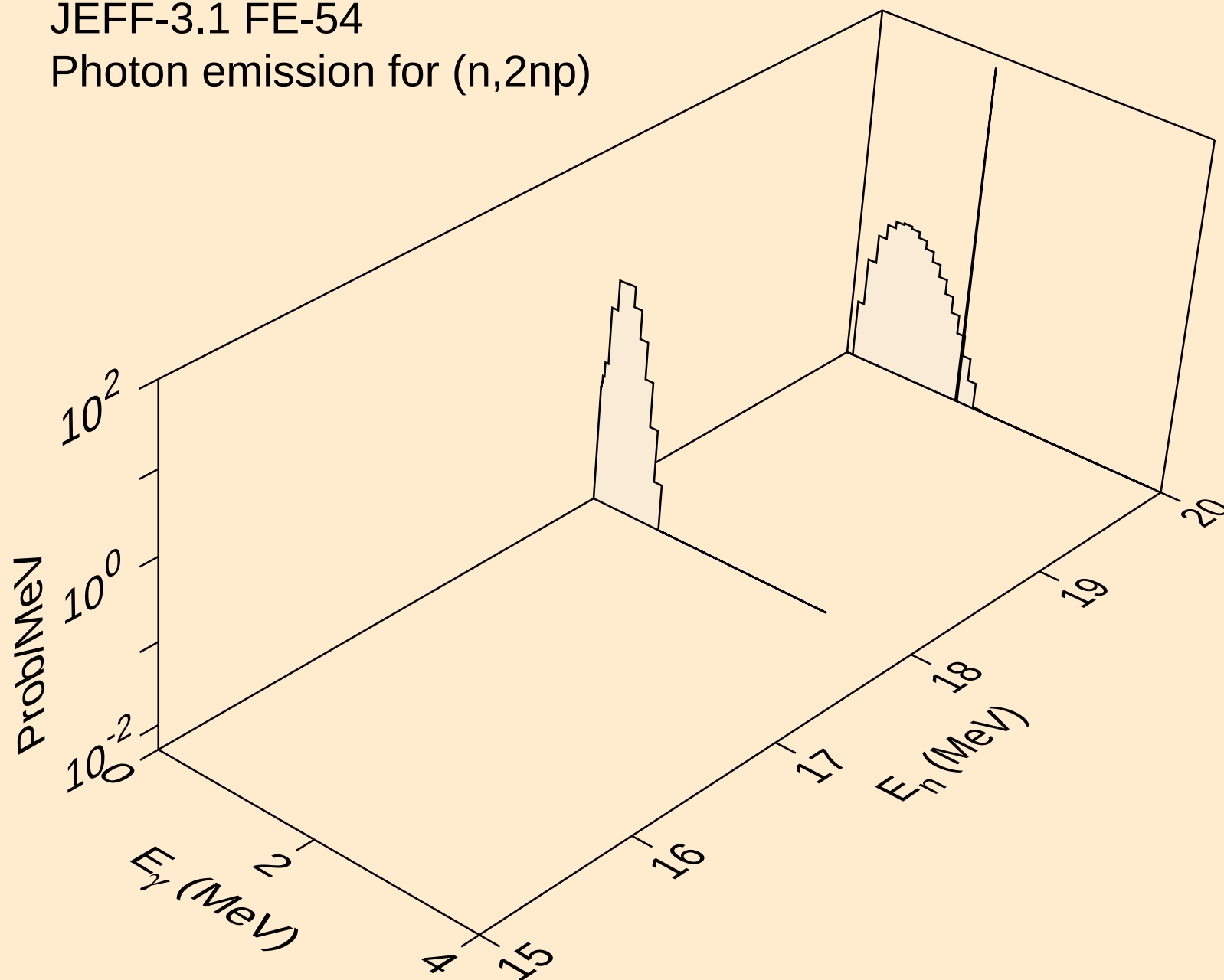
JEFF-3.1 FE-54

Photon emission for (n,n*)p

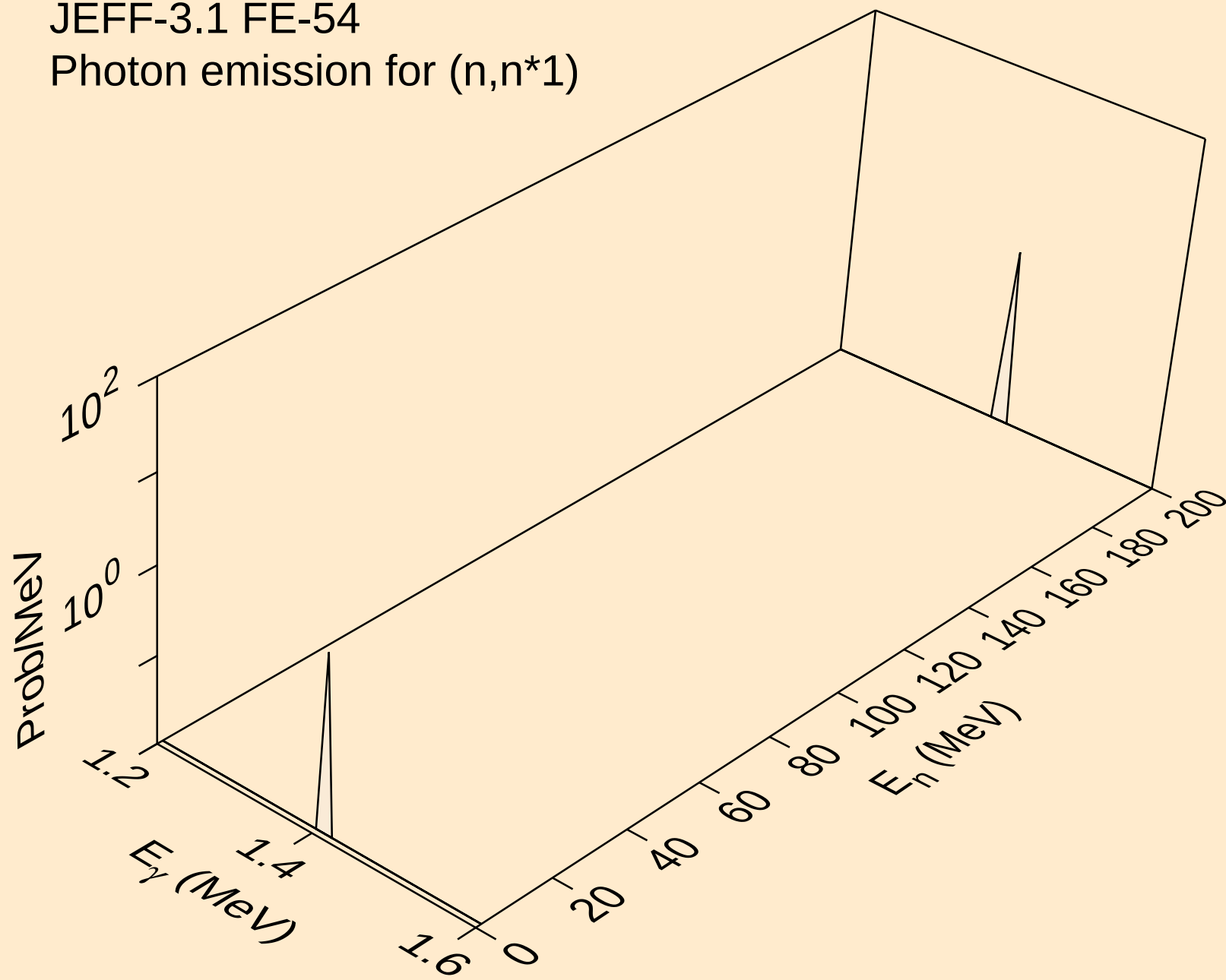


JEFF-3.1 FE-54

Photon emission for (n,2np)

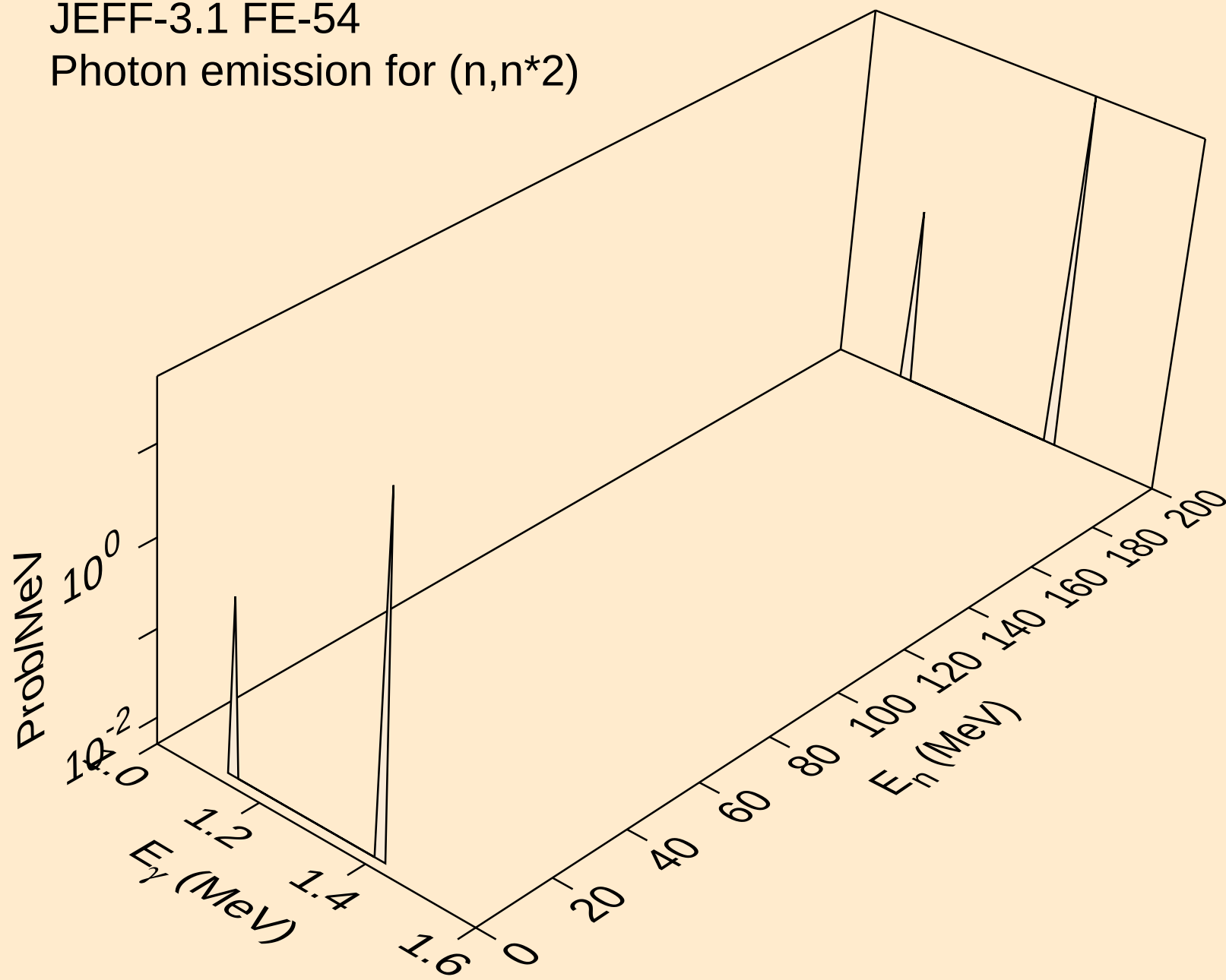


JEFF-3.1 FE-54
Photon emission for (n,n*1)



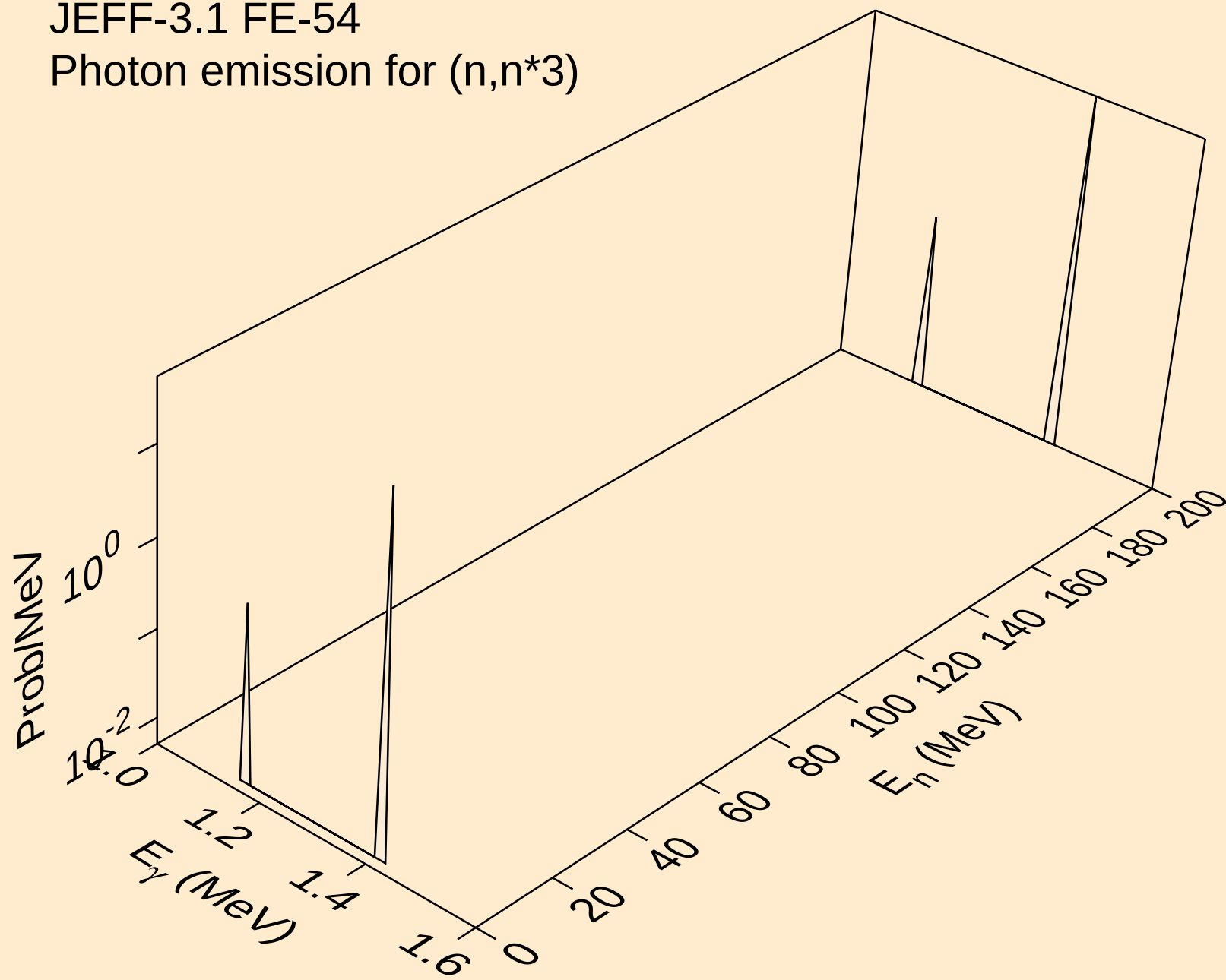
JEFF-3.1 FE-54

Photon emission for (n,n*2)



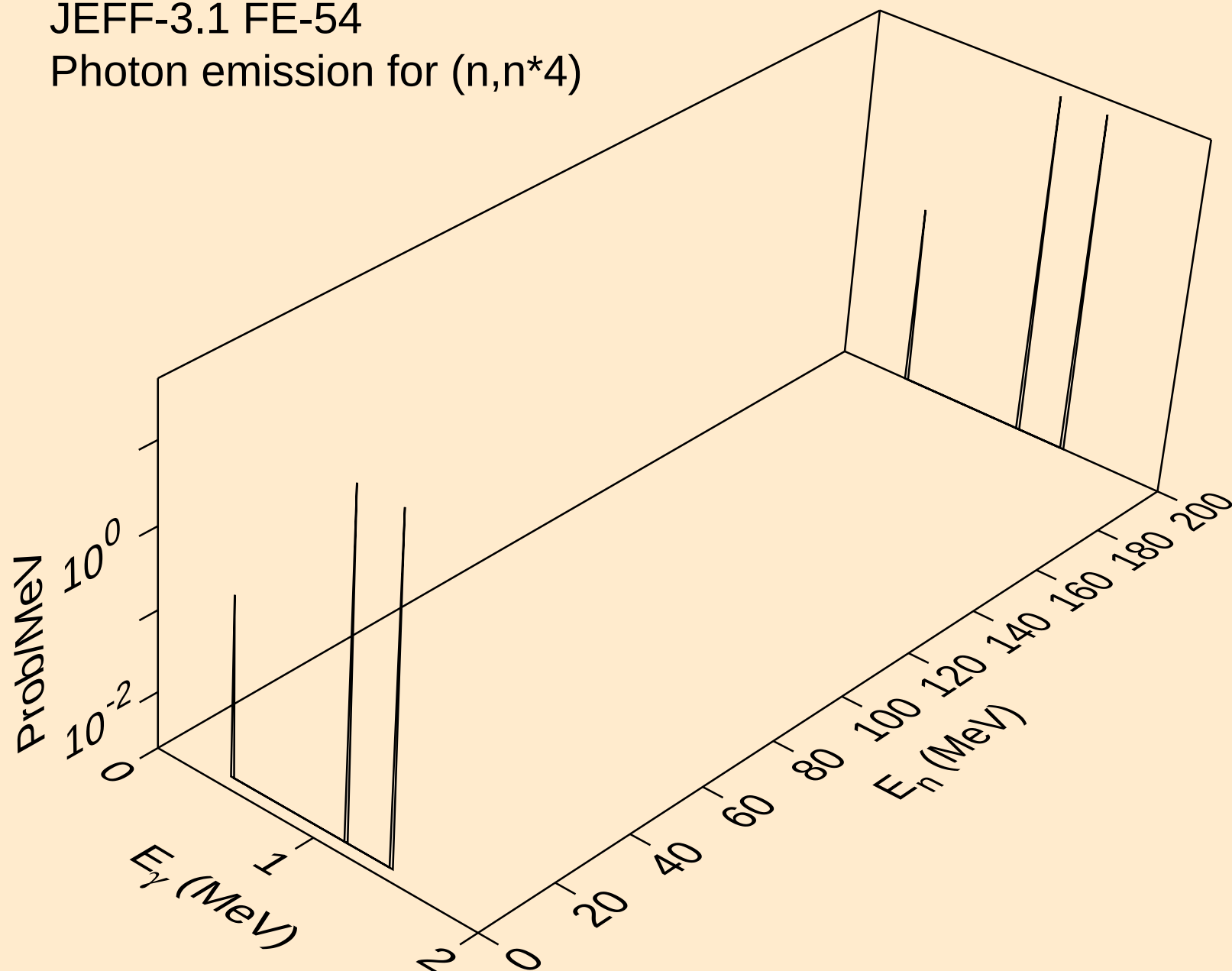
JEFF-3.1 FE-54

Photon emission for (n,n*3)



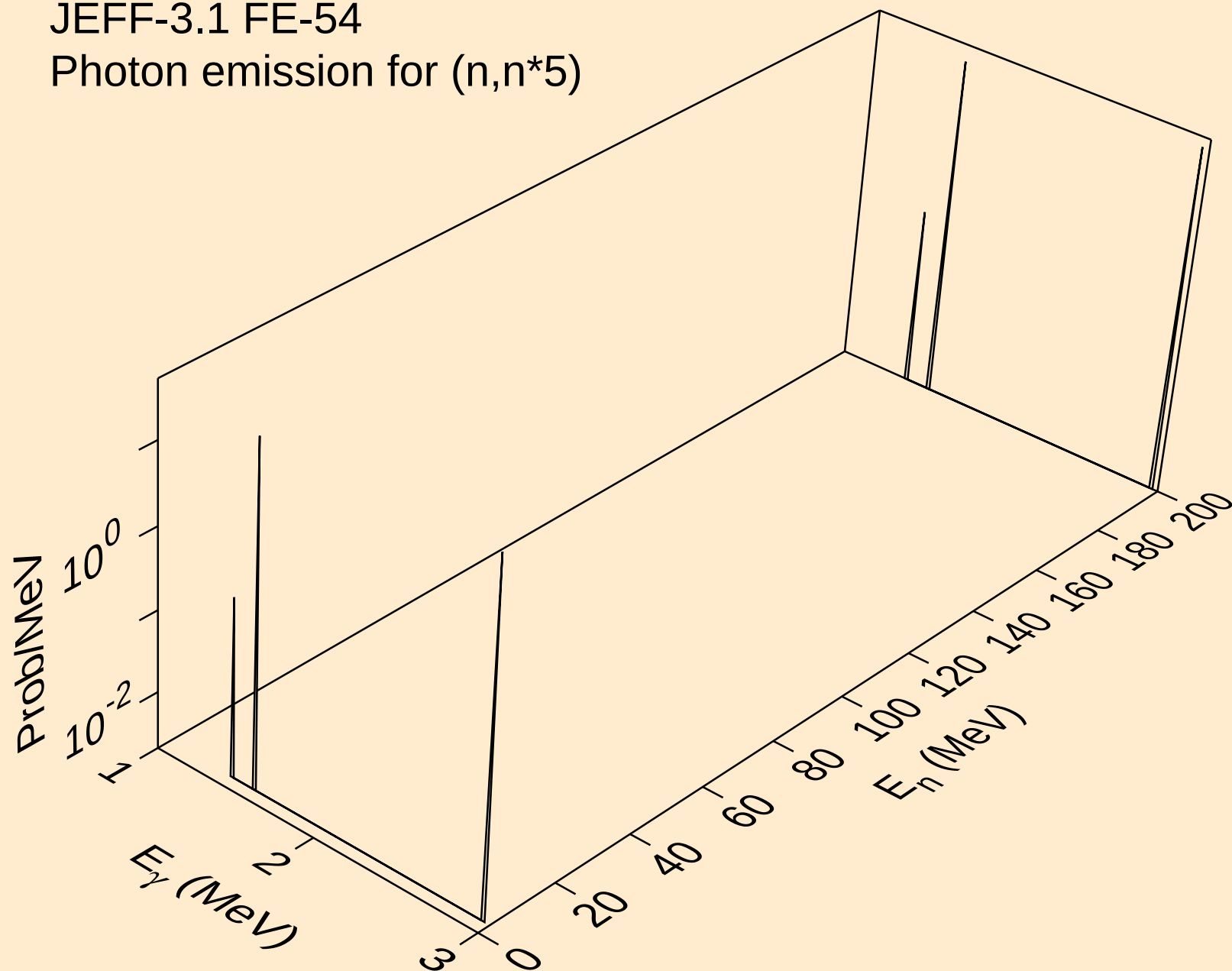
JEFF-3.1 FE-54

Photon emission for (n,n*4)



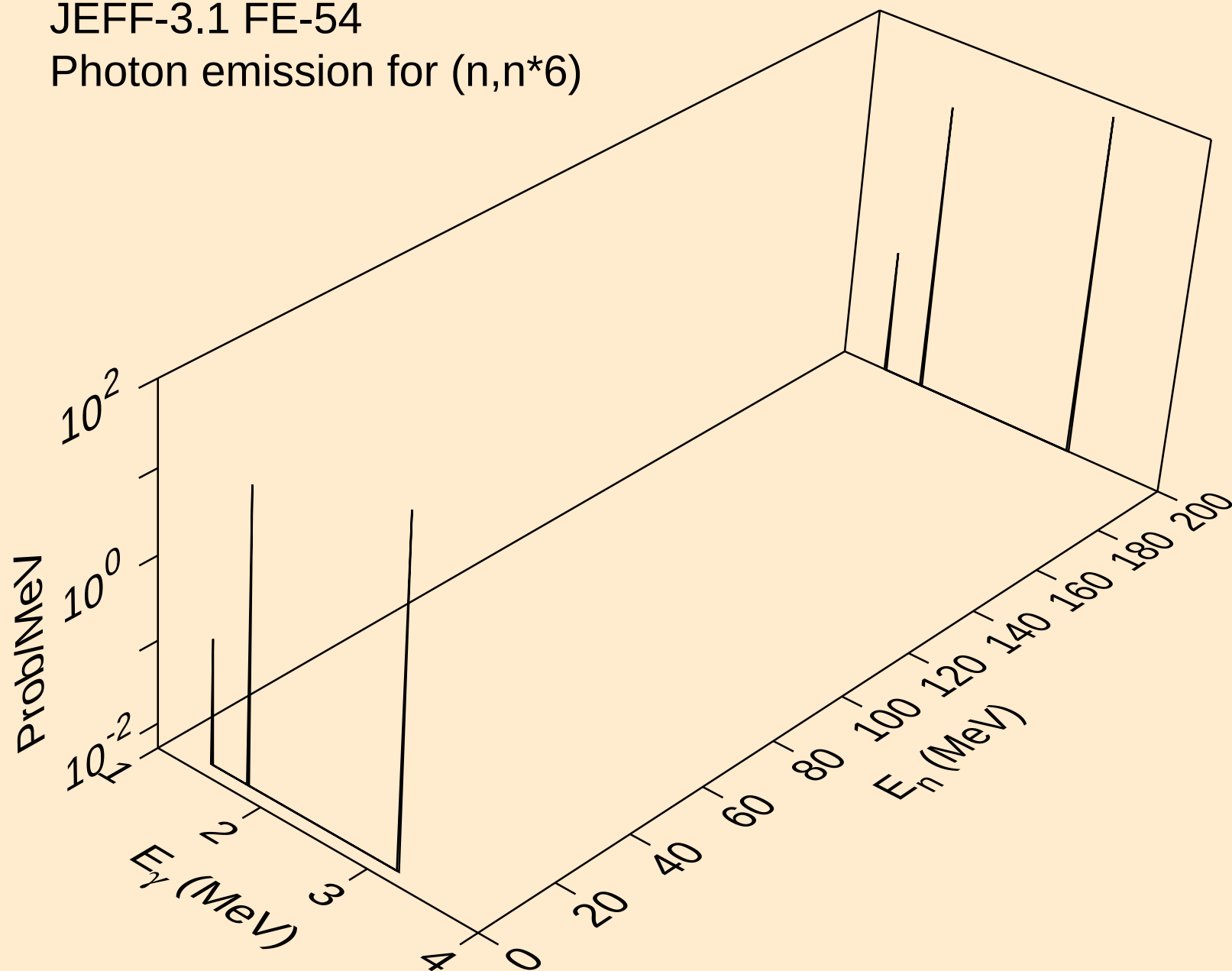
JEFF-3.1 FE-54

Photon emission for (n,n*5)



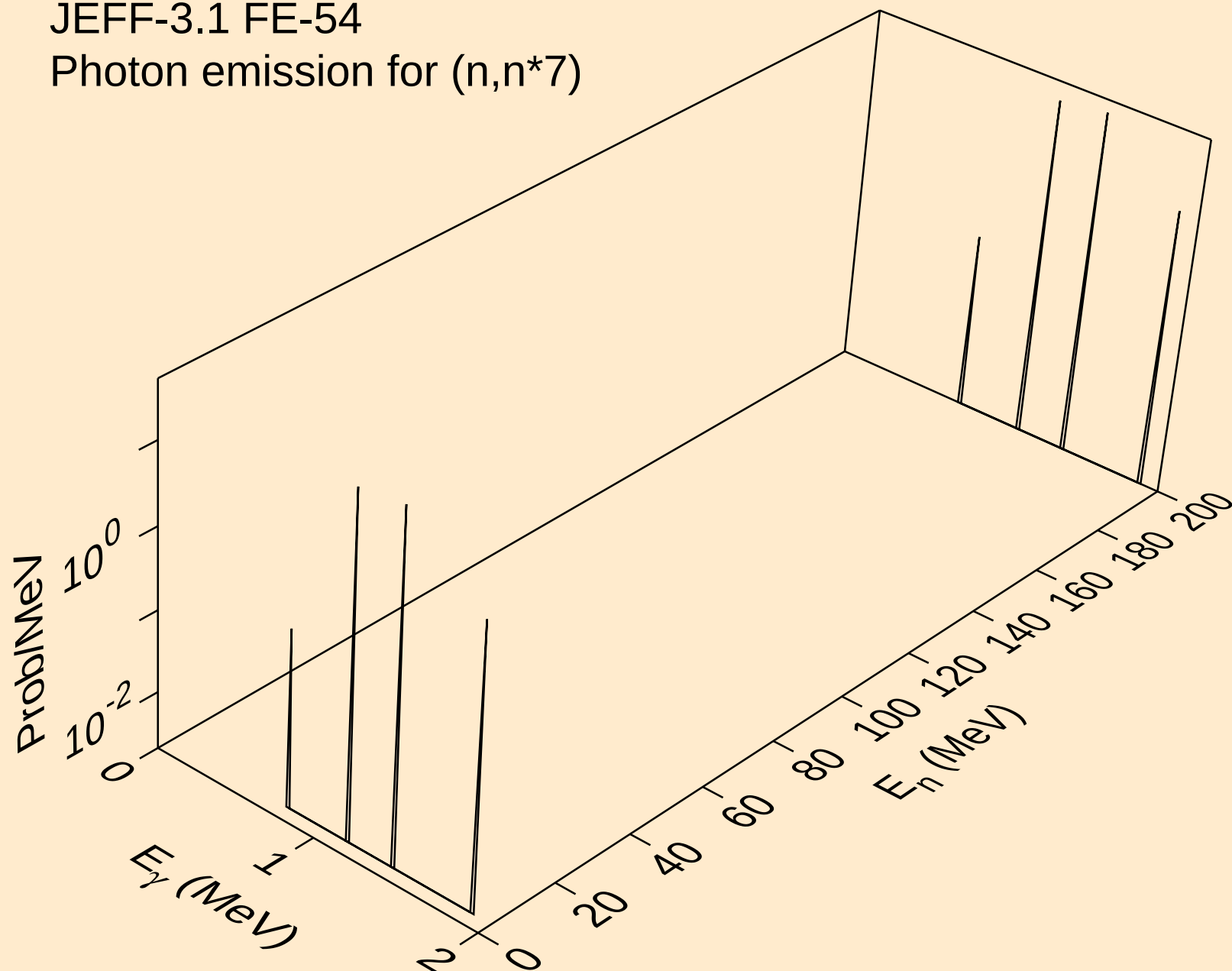
JEFF-3.1 FE-54

Photon emission for (n,n*6)



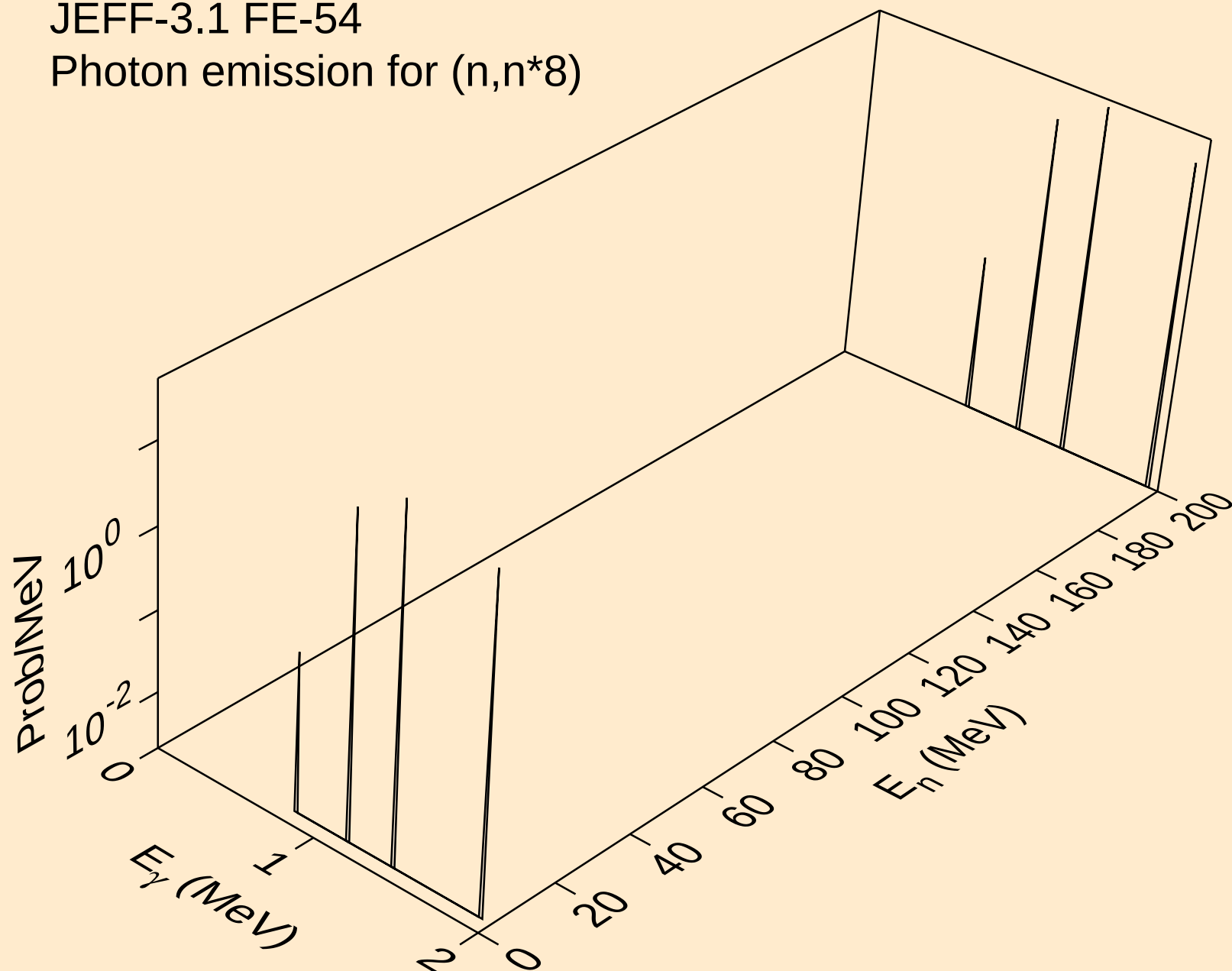
JEFF-3.1 FE-54

Photon emission for (n,n*7)



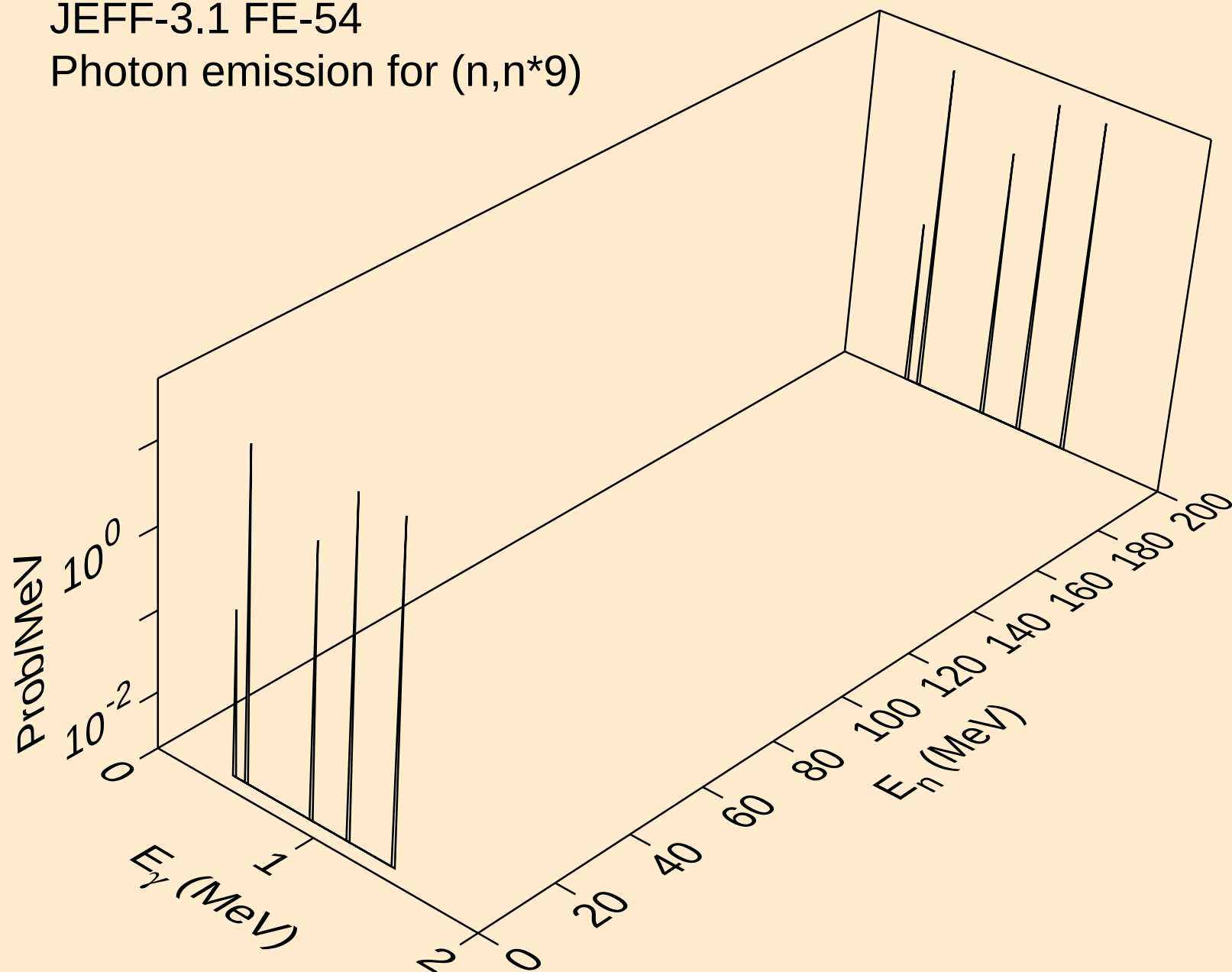
JEFF-3.1 FE-54

Photon emission for (n,n*8)



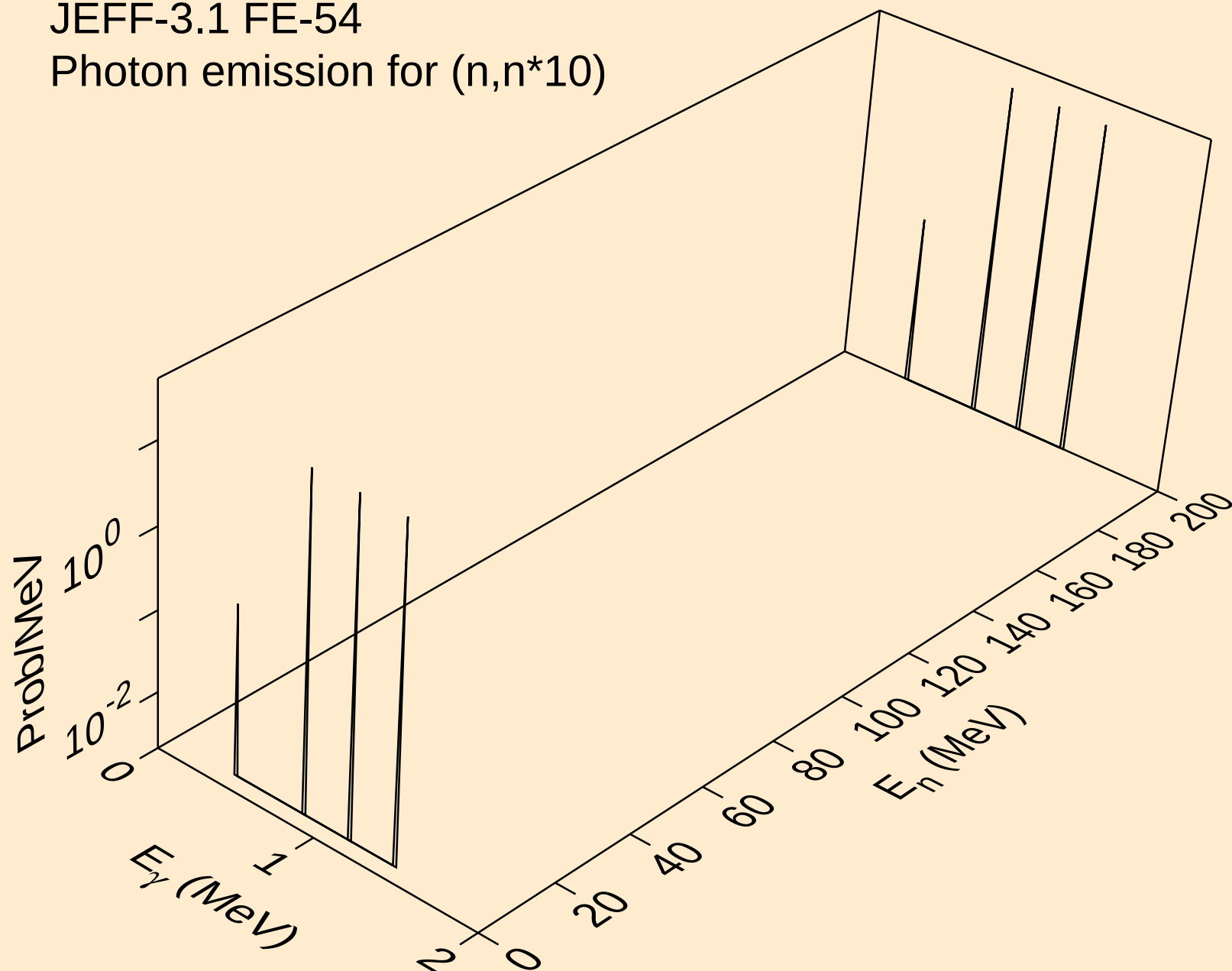
JEFF-3.1 FE-54

Photon emission for (n,n*9)



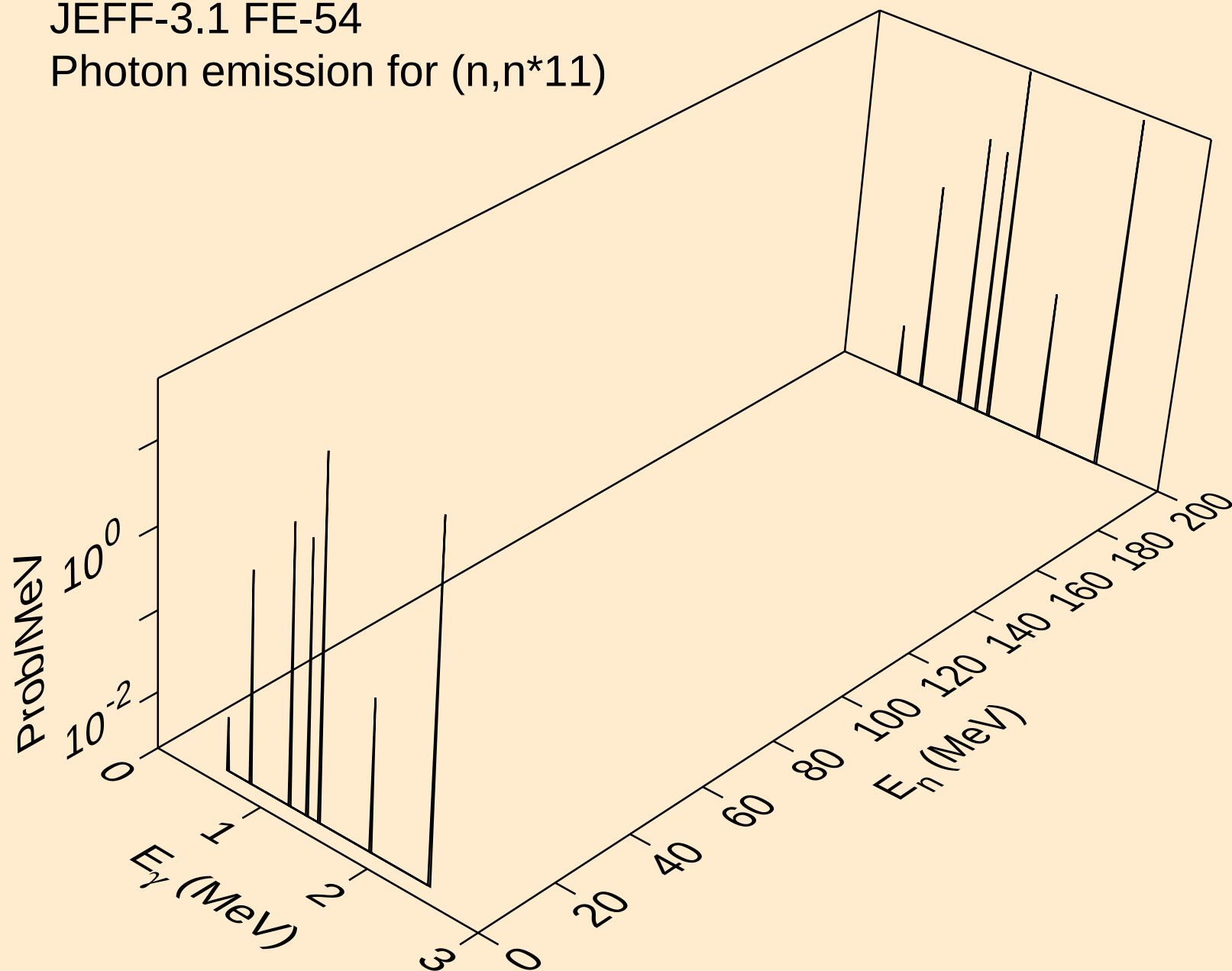
JEFF-3.1 FE-54

Photon emission for (n,n*10)



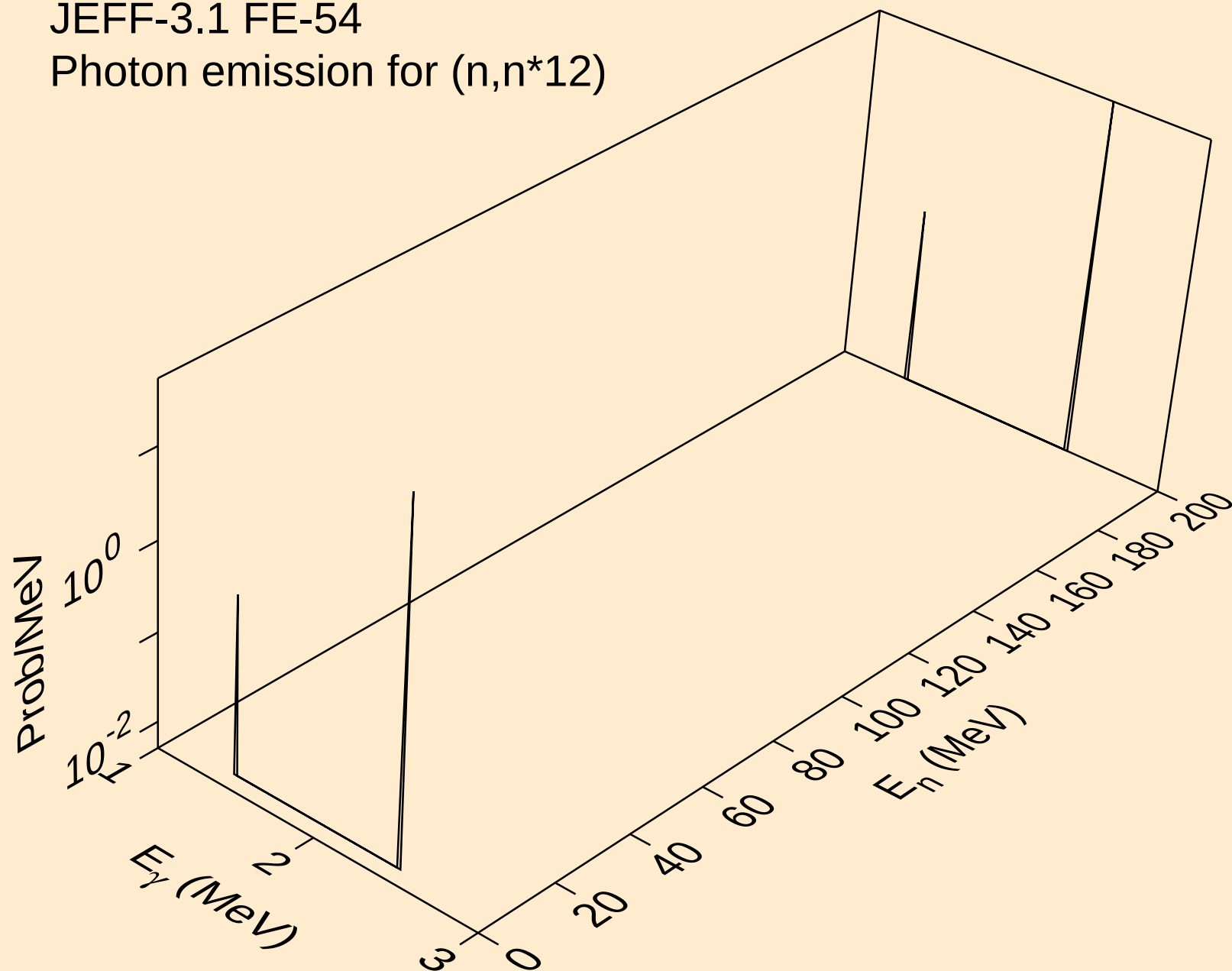
JEFF-3.1 FE-54

Photon emission for (n,n*11)



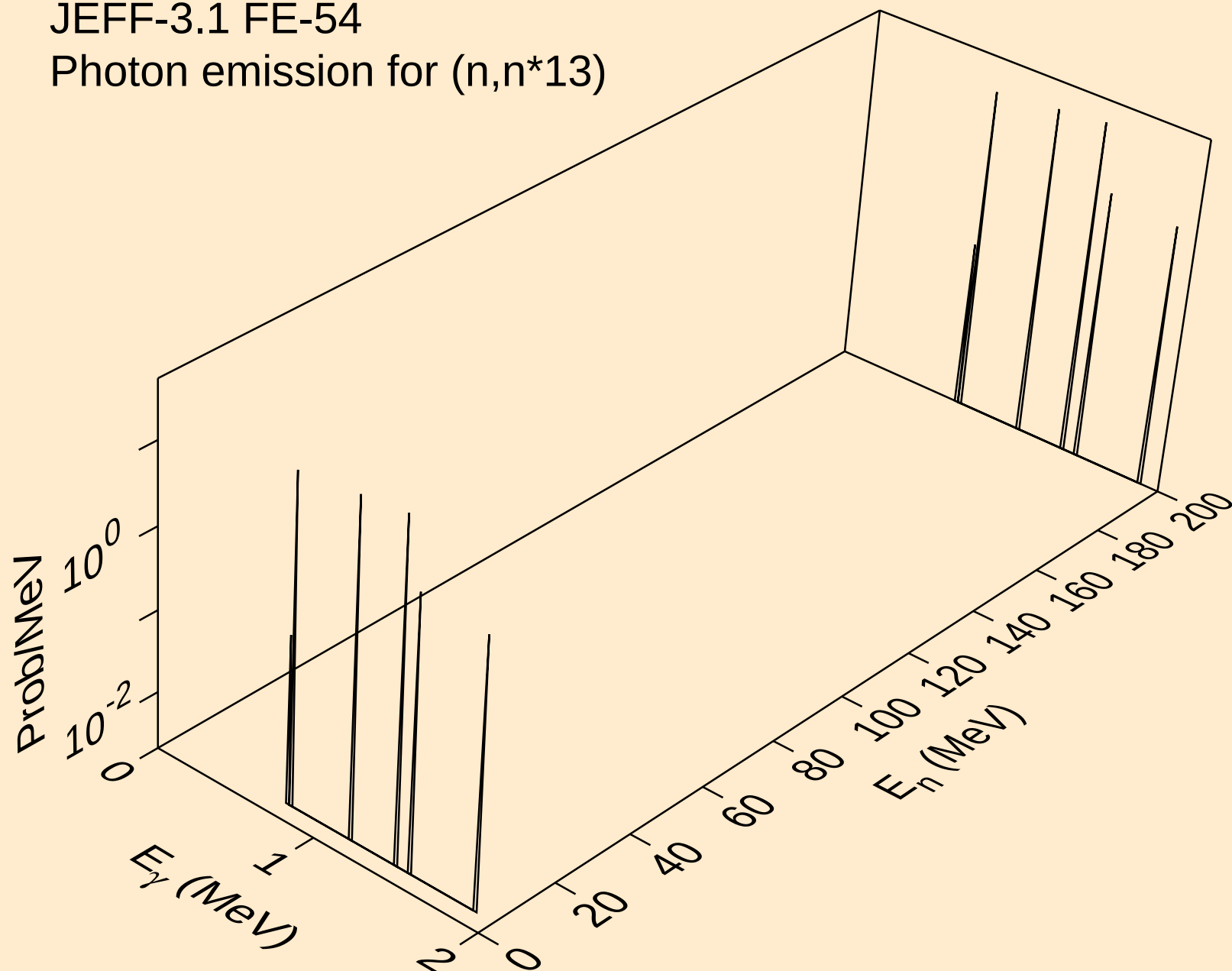
JEFF-3.1 FE-54

Photon emission for (n,n*12)



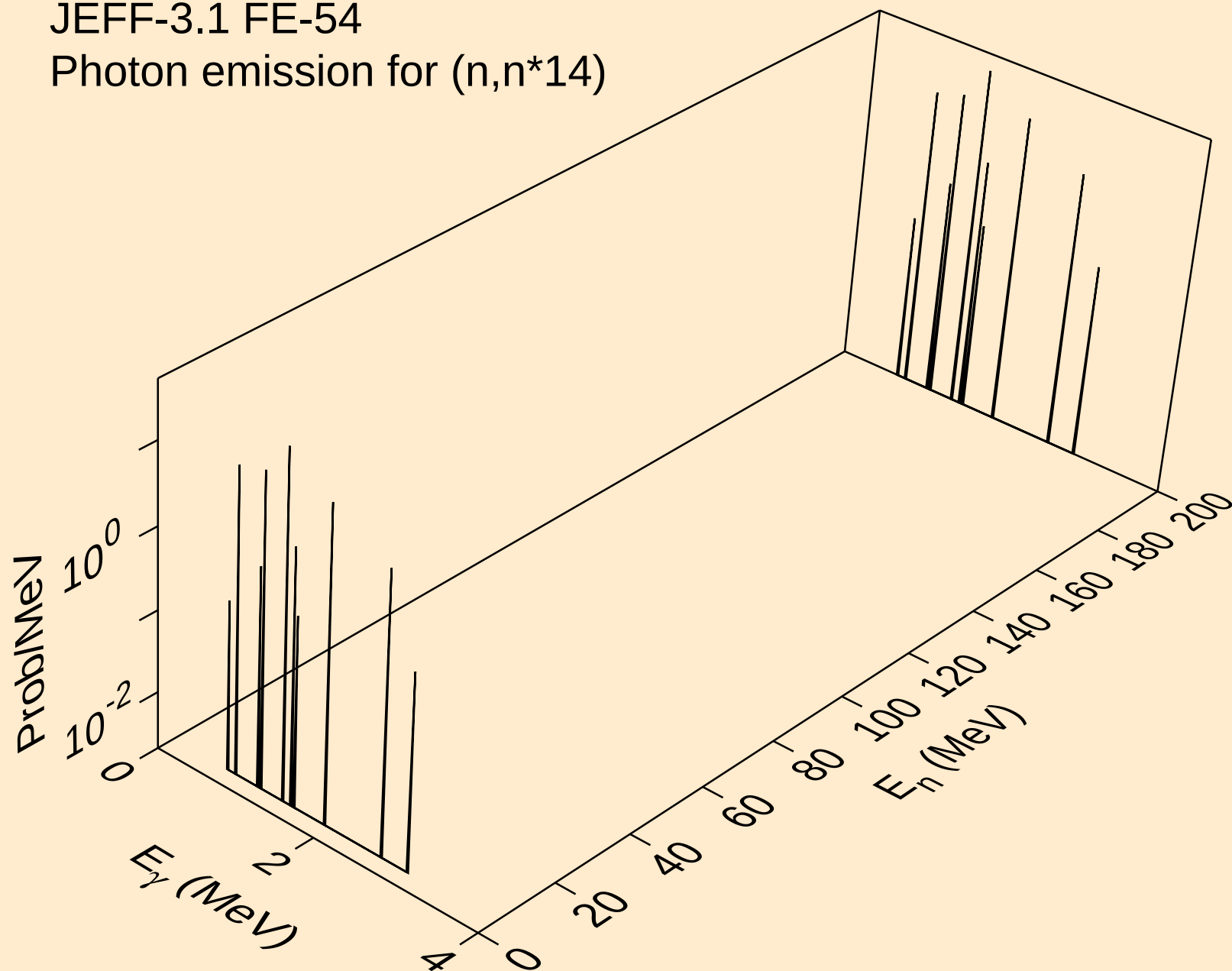
JEFF-3.1 FE-54

Photon emission for (n,n*13)



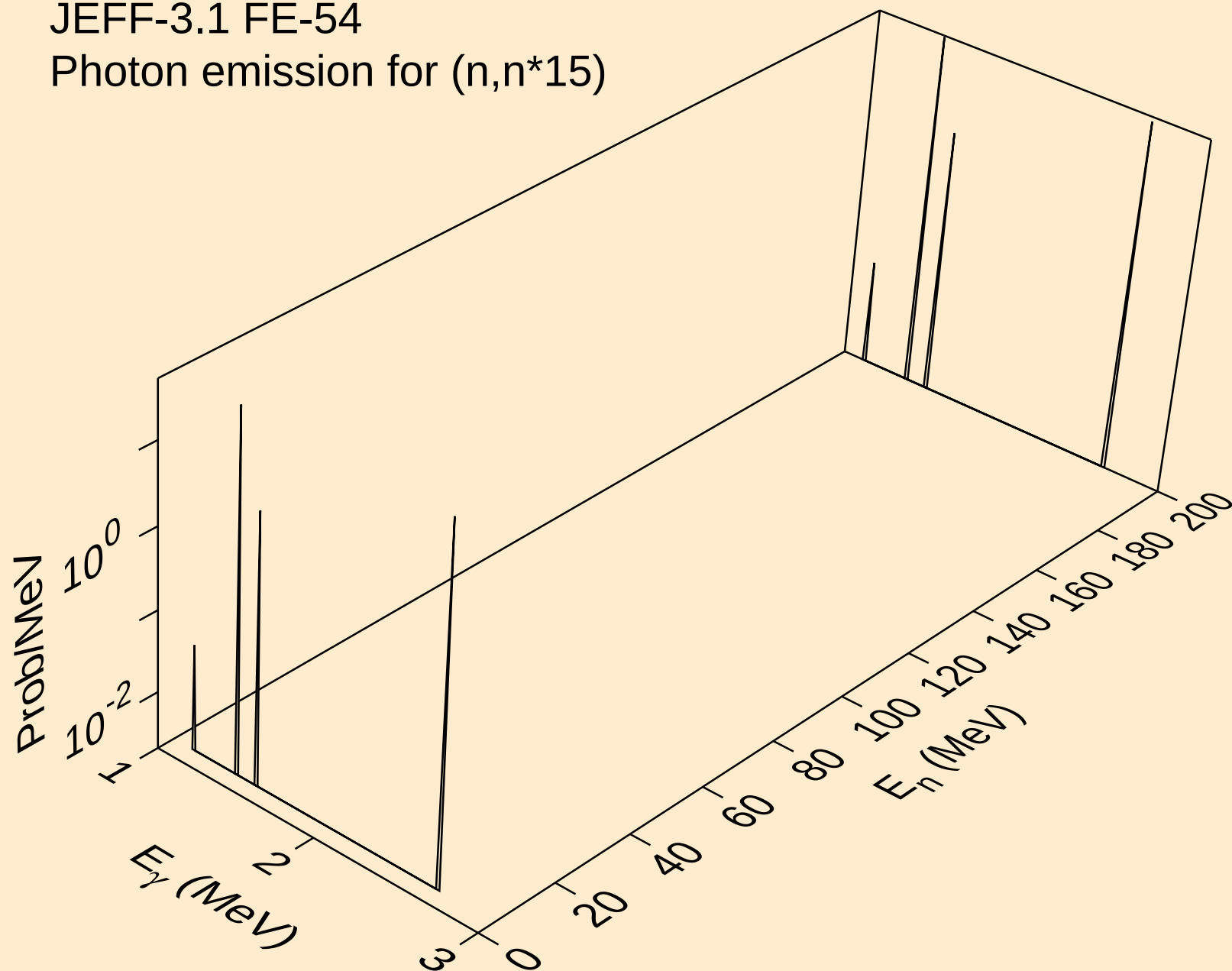
JEFF-3.1 FE-54

Photon emission for (n,n*14)



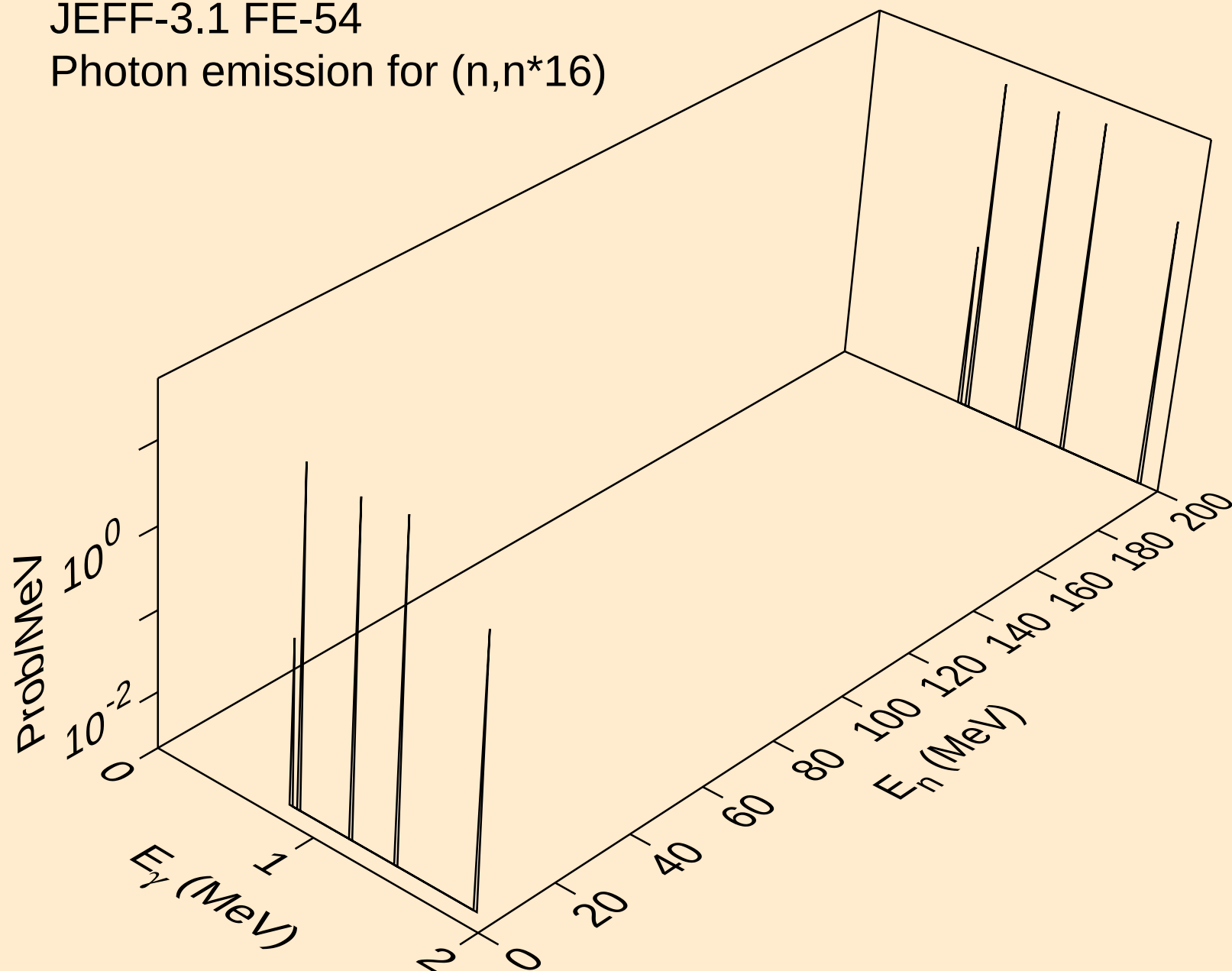
JEFF-3.1 FE-54

Photon emission for (n,n*15)



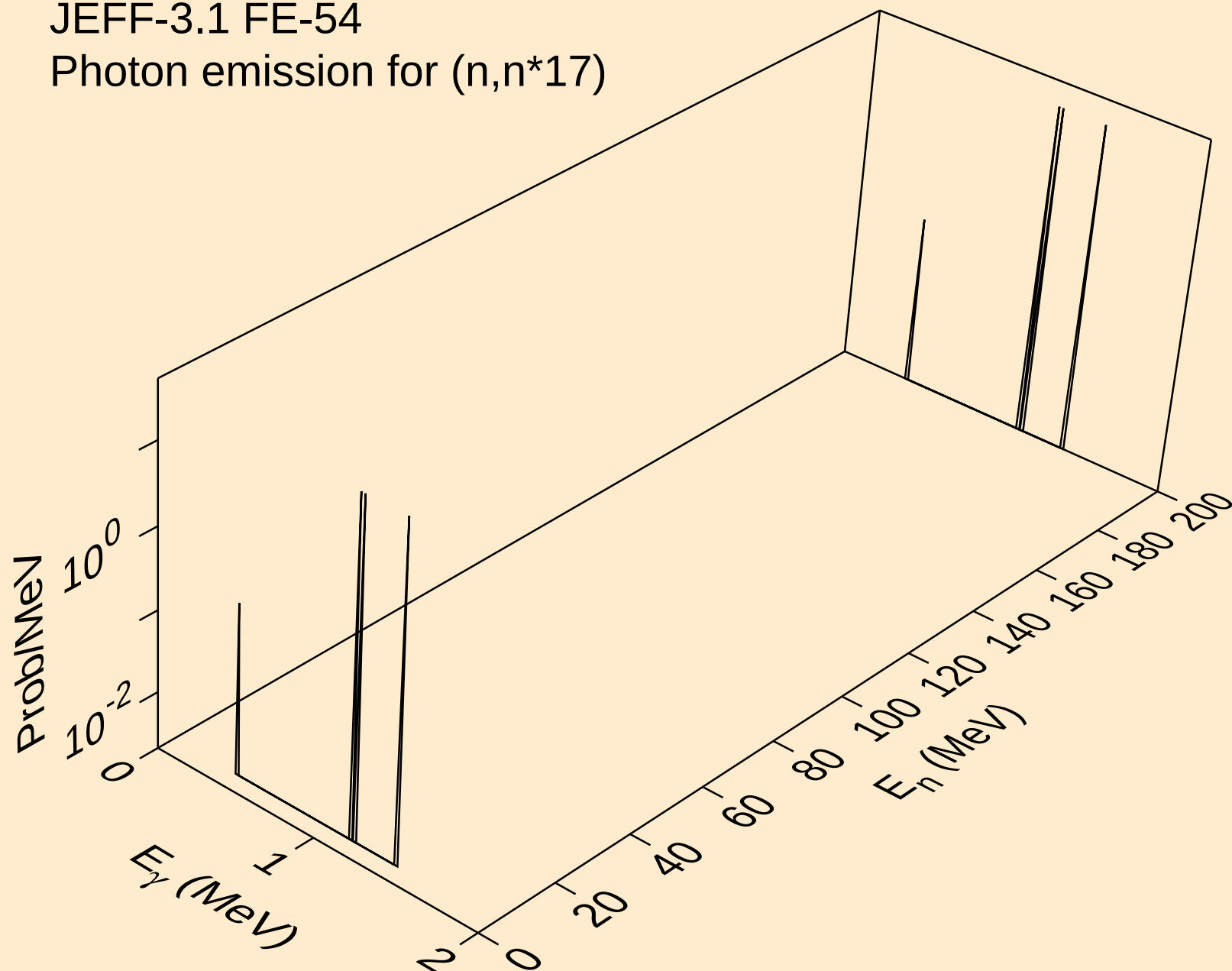
JEFF-3.1 FE-54

Photon emission for (n,n*16)



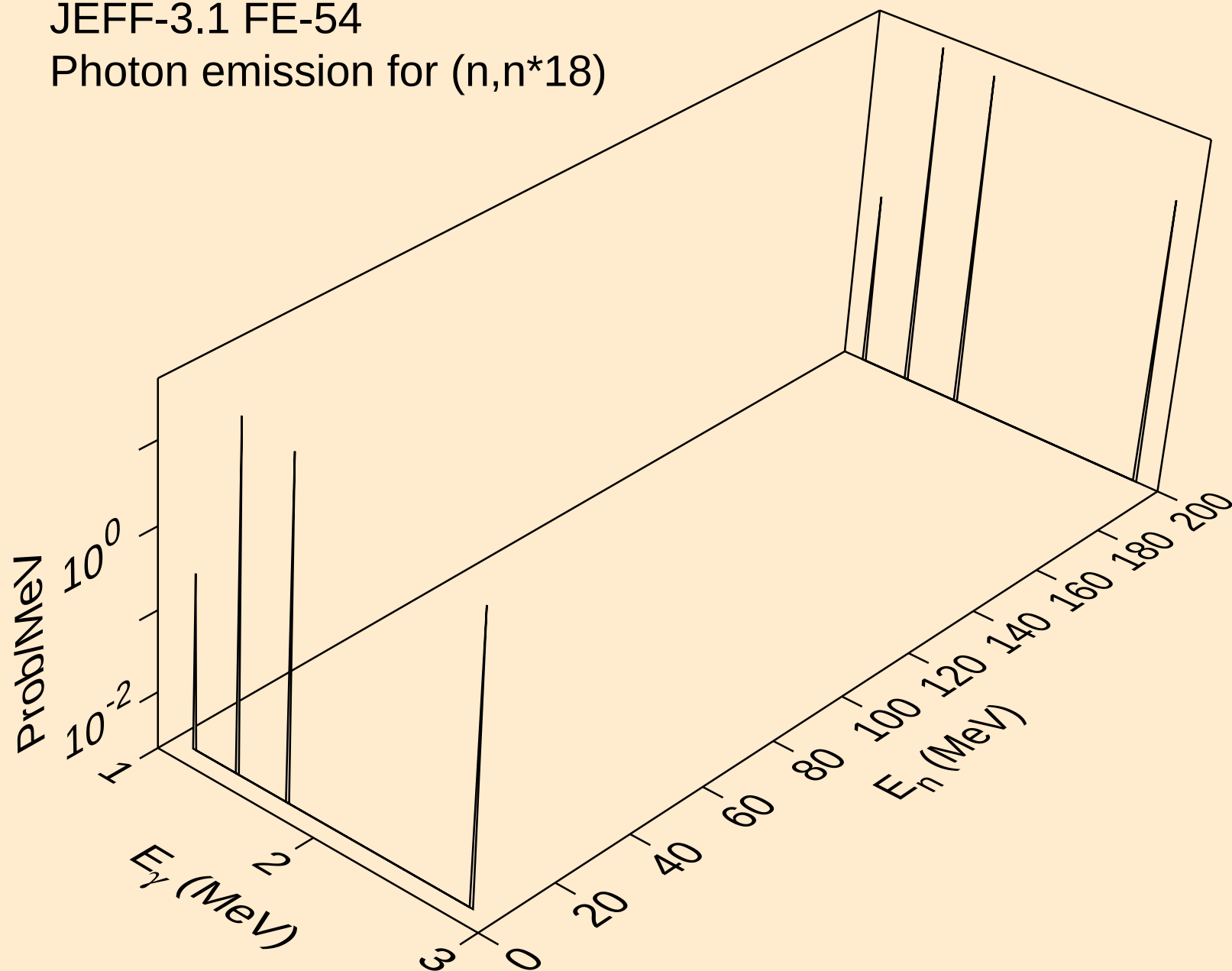
JEFF-3.1 FE-54

Photon emission for (n,n*17)



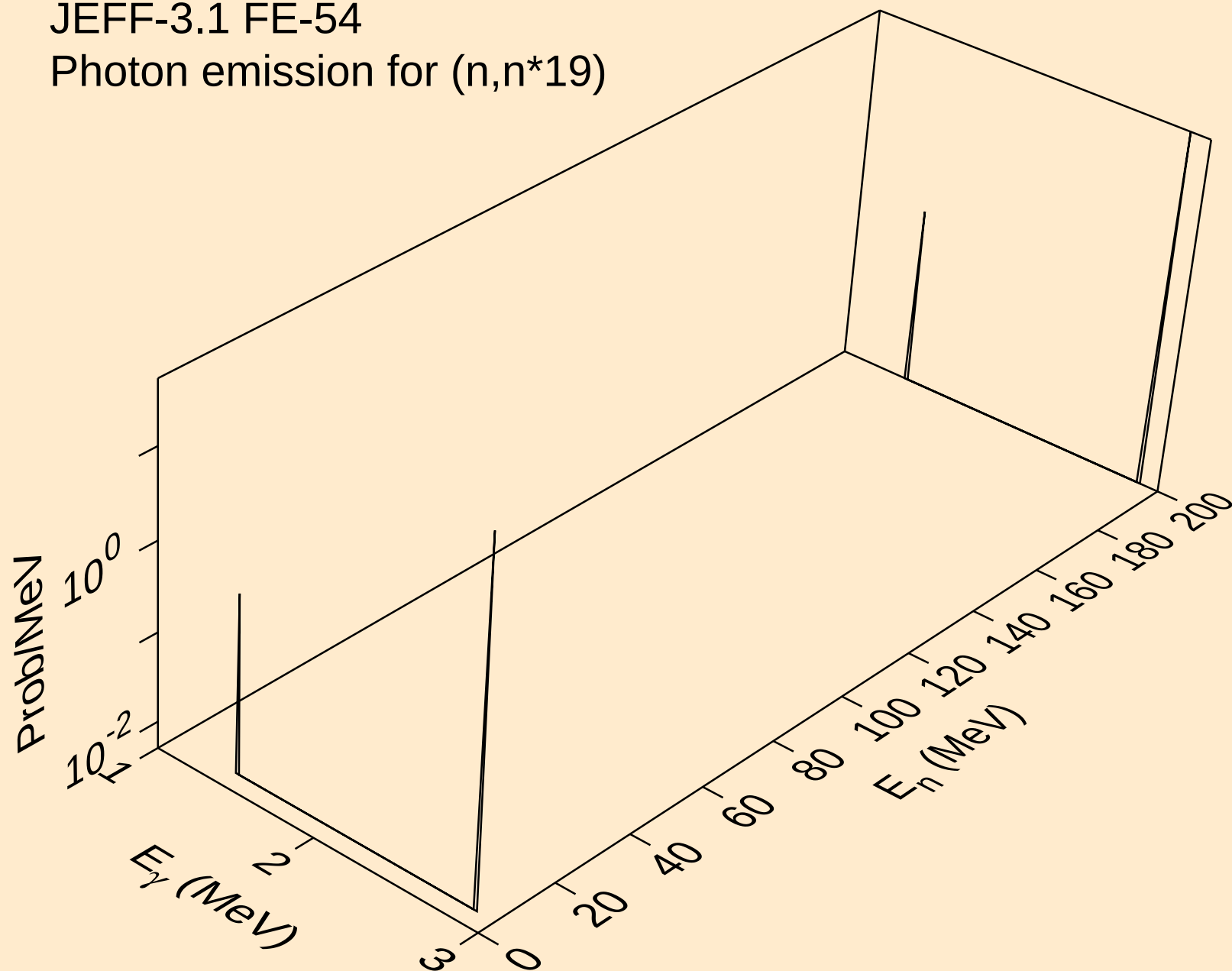
JEFF-3.1 FE-54

Photon emission for (n,n*18)



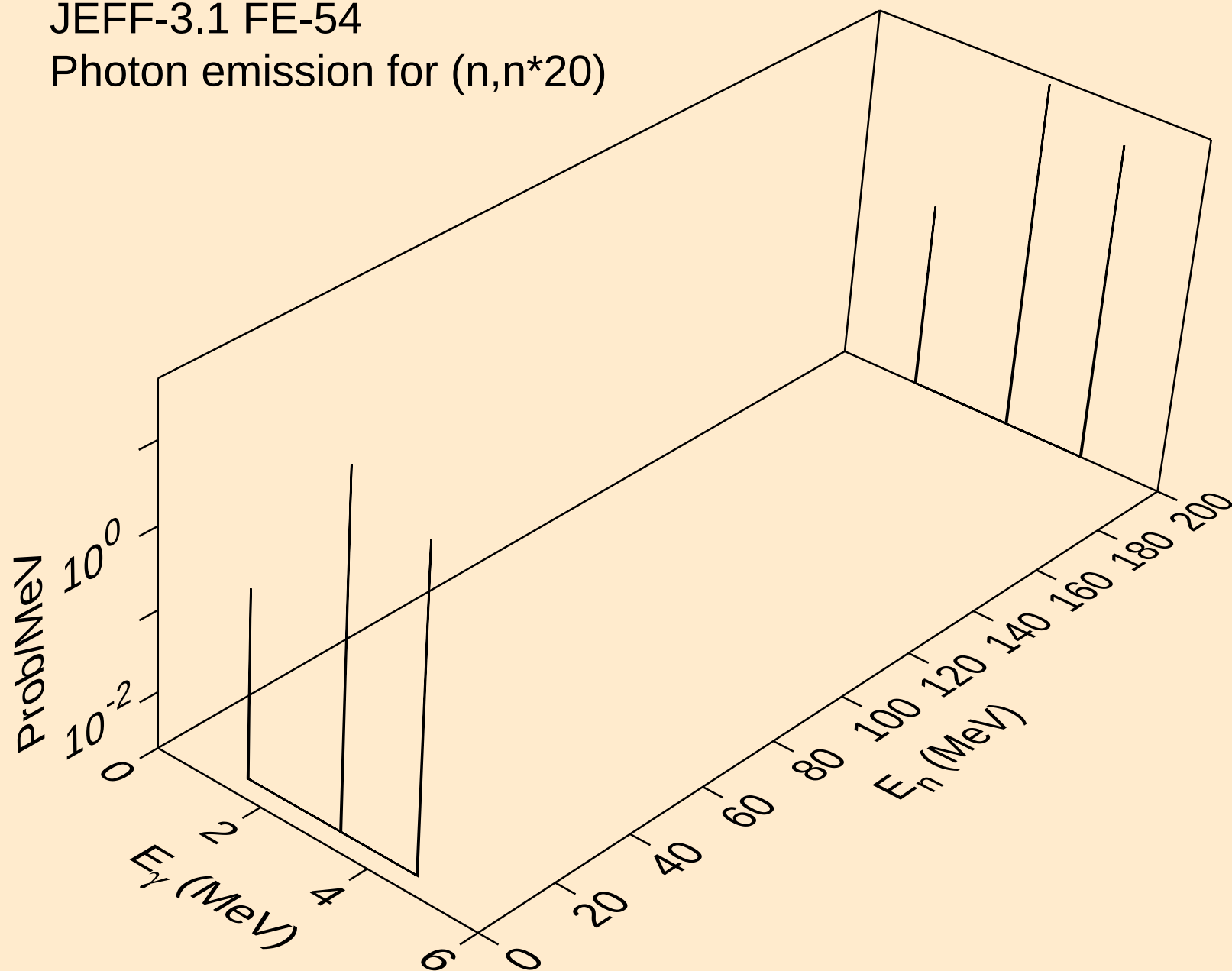
JEFF-3.1 FE-54

Photon emission for (n,n*19)

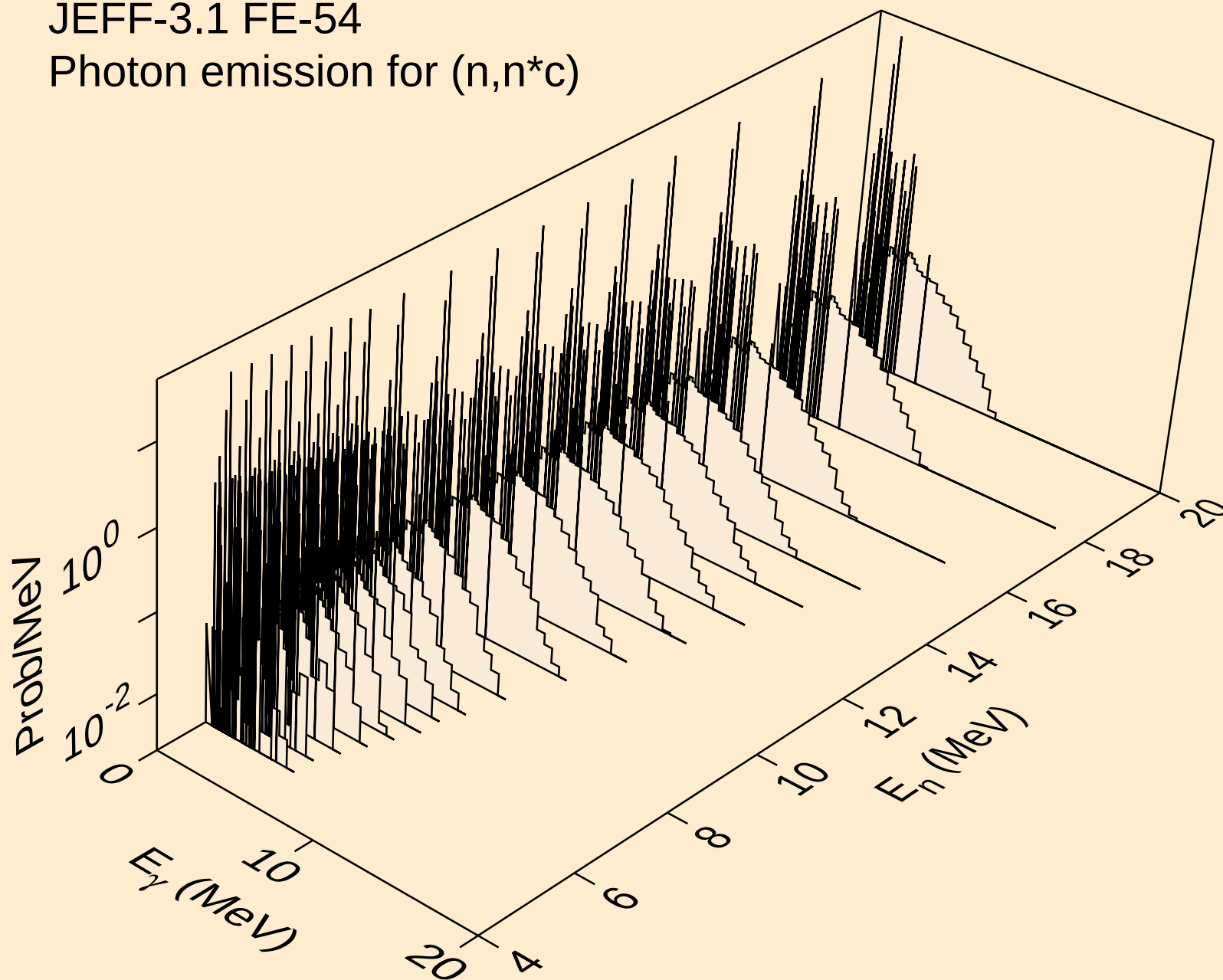


JEFF-3.1 FE-54

Photon emission for (n,n*20)

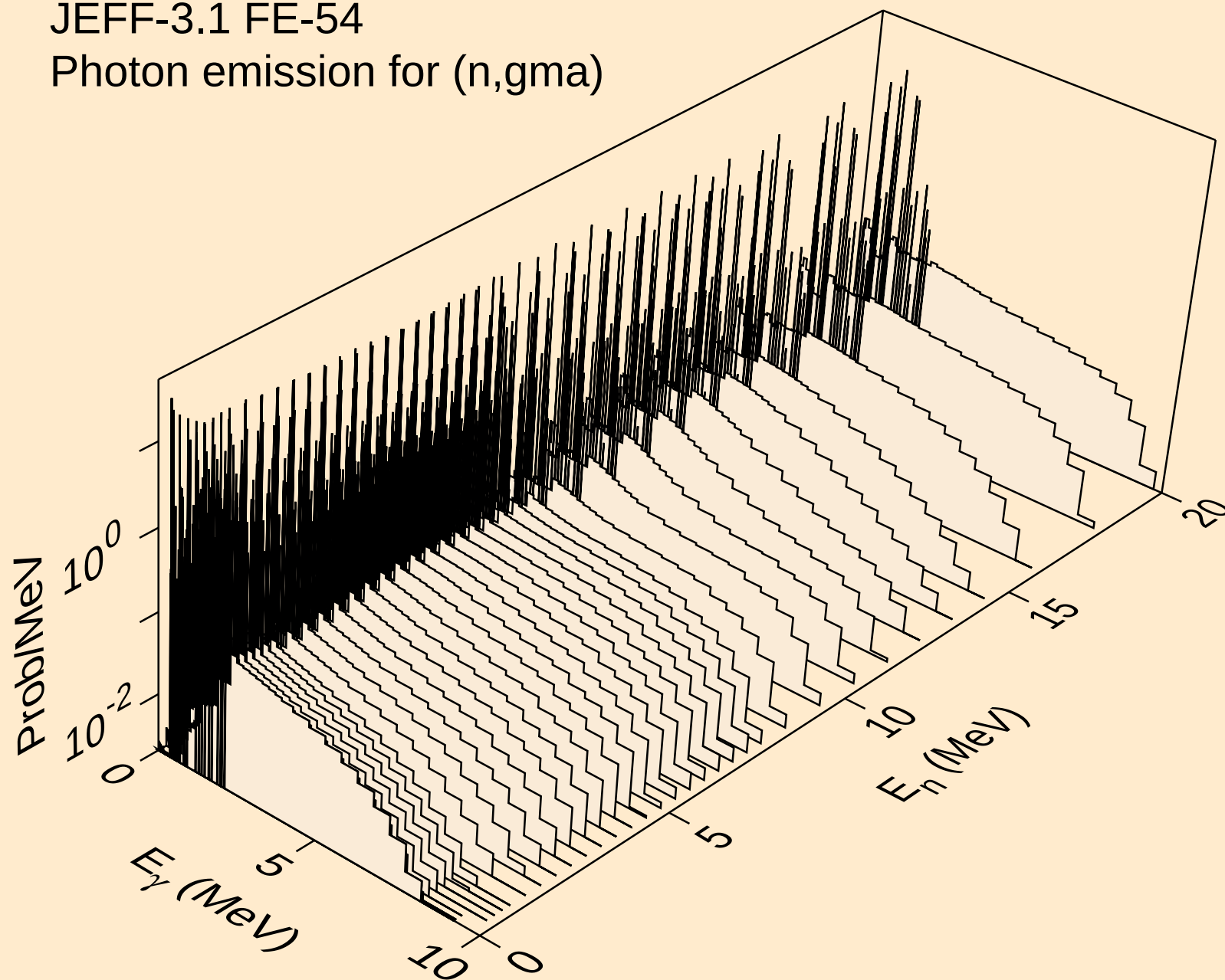


JEFF-3.1 FE-54
Photon emission for (n,n*c)



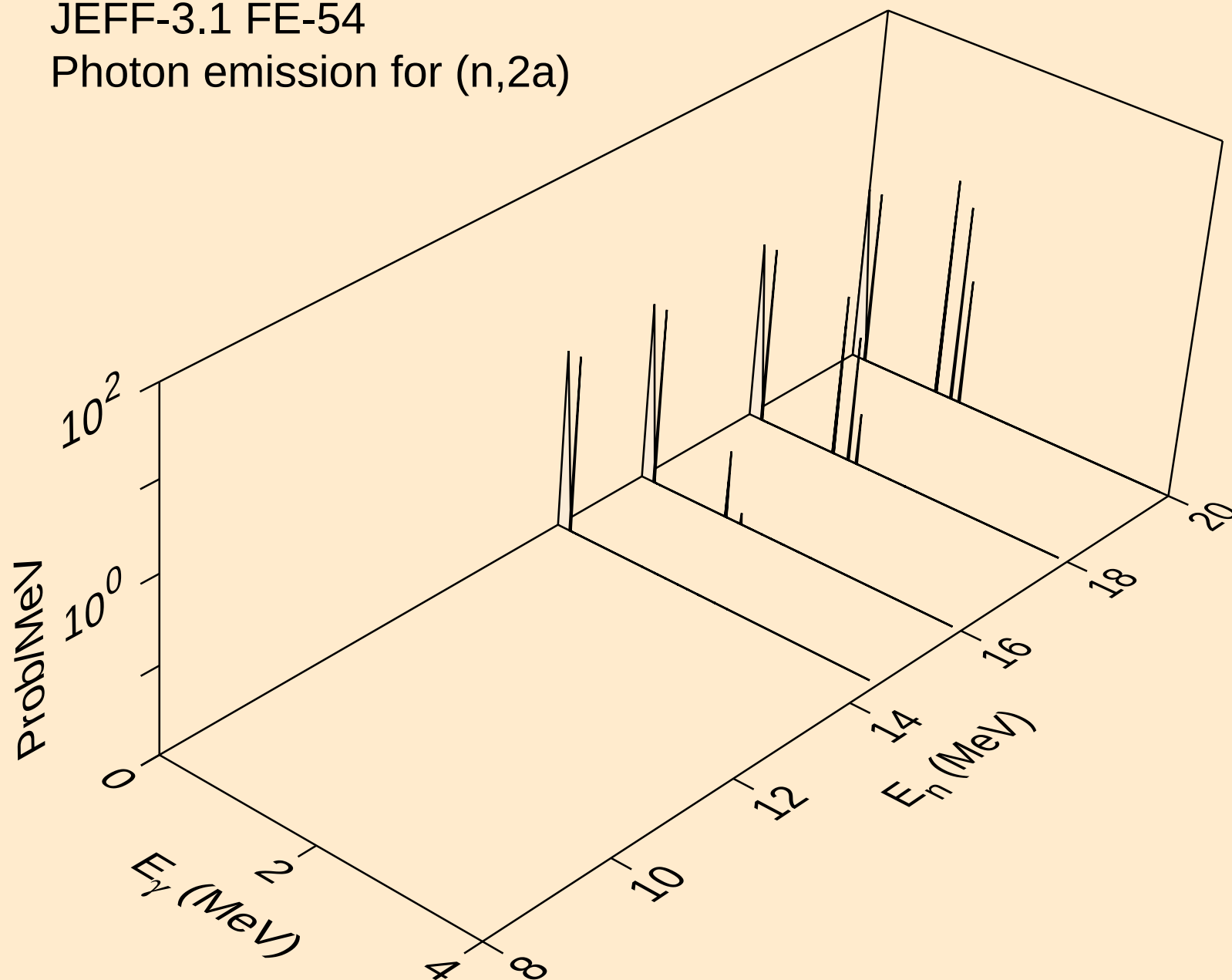
JEFF-3.1 FE-54

Photon emission for (n,gma)



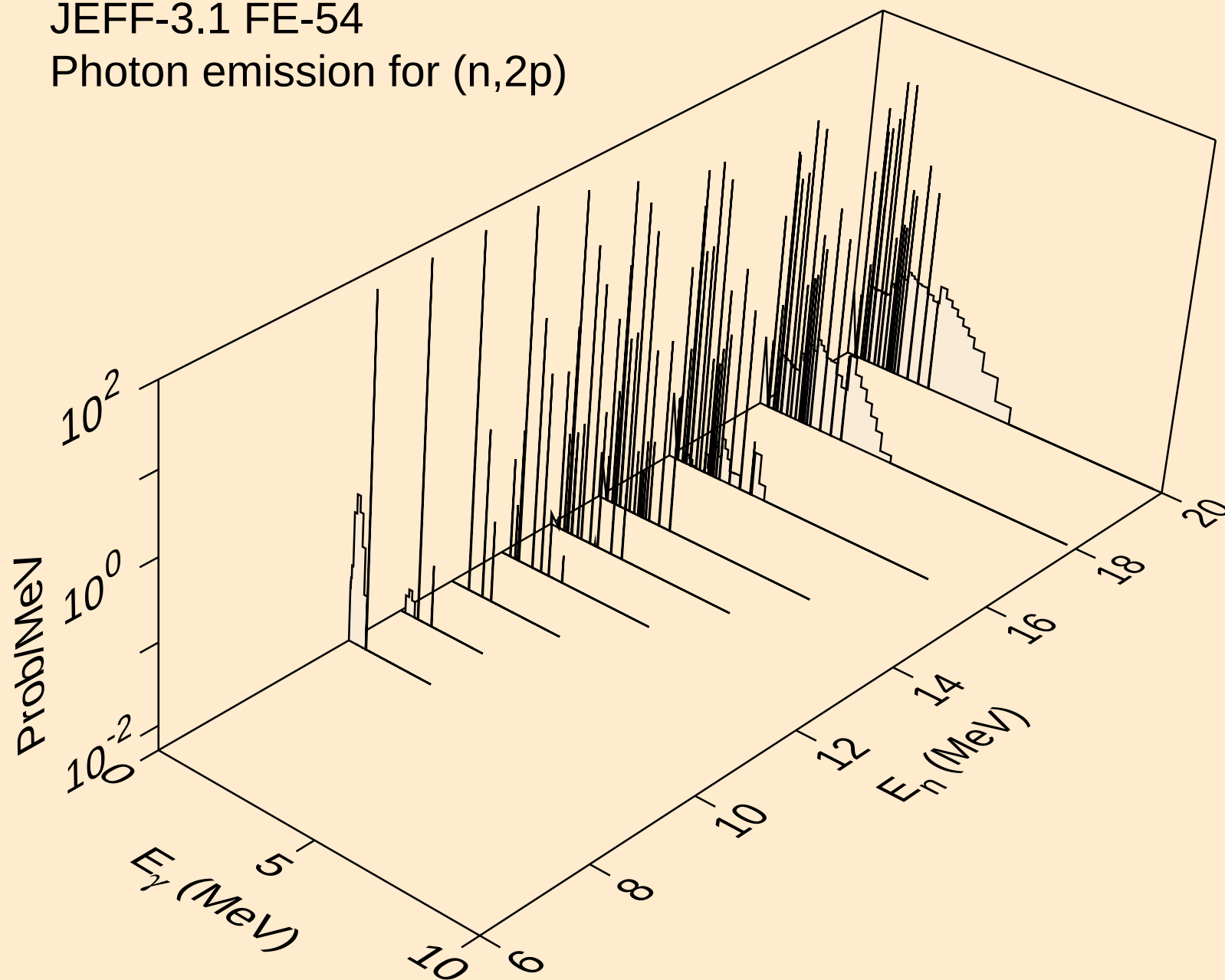
JEFF-3.1 FE-54

Photon emission for (n,2a)



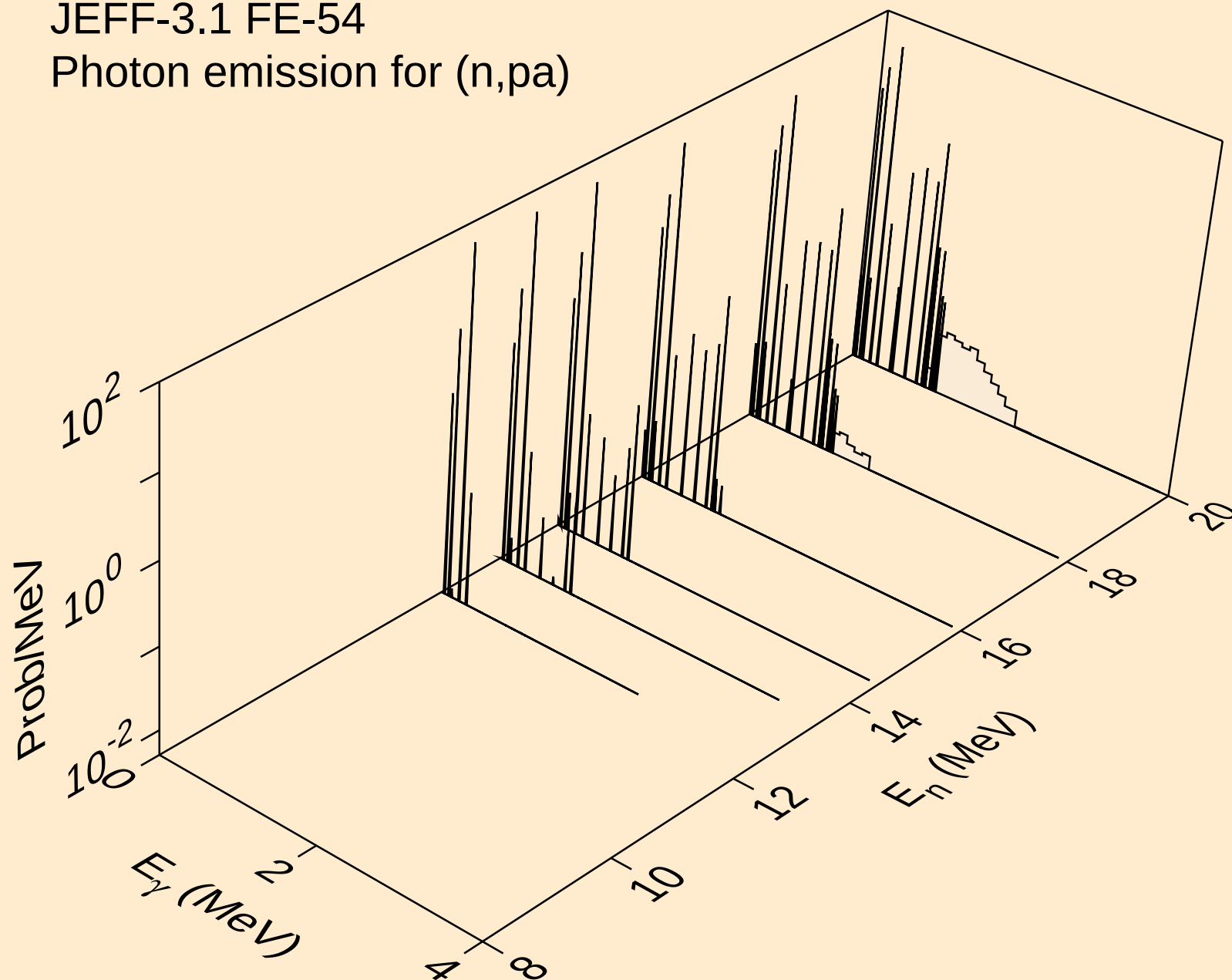
JEFF-3.1 FE-54

Photon emission for (n,2p)



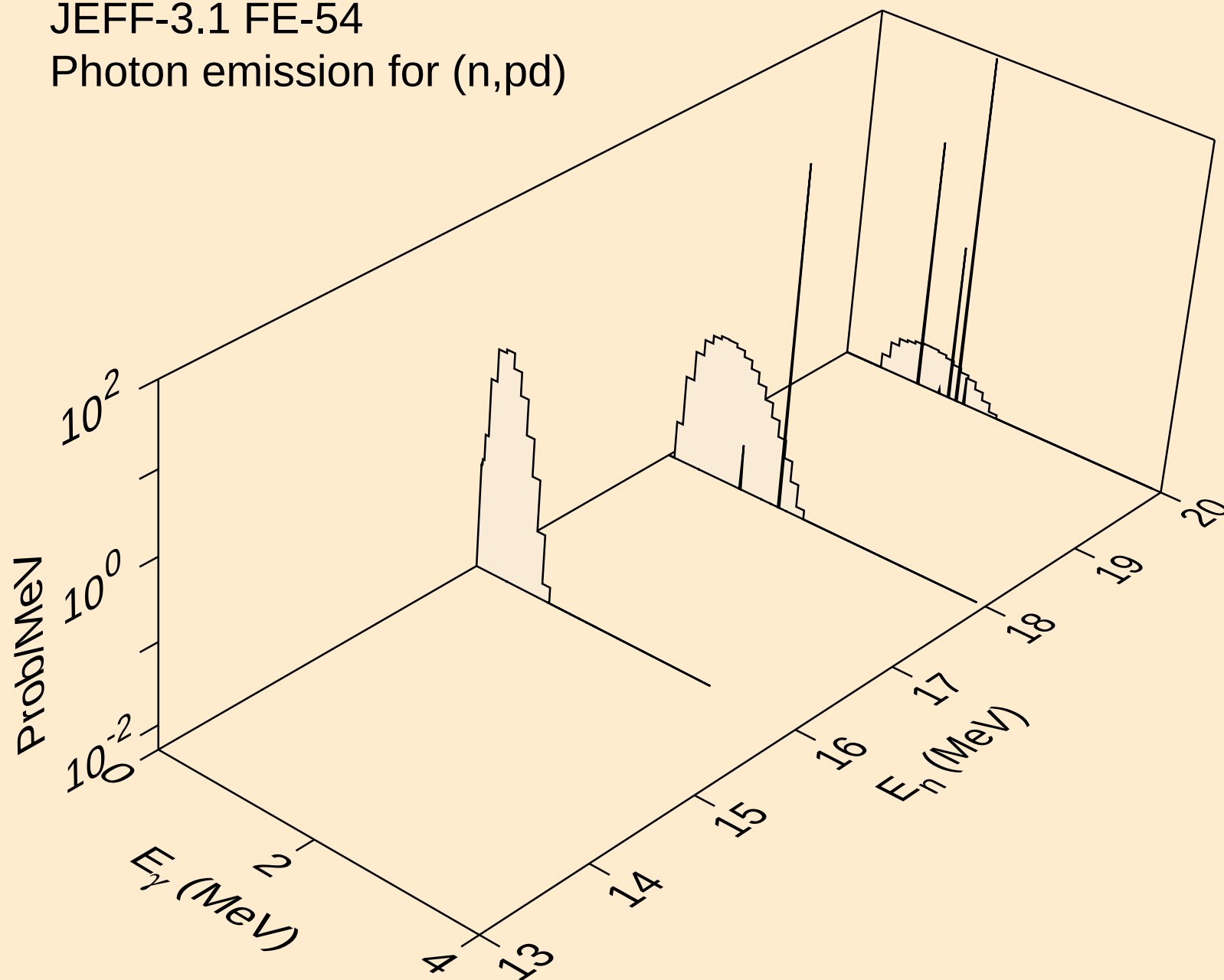
JEFF-3.1 FE-54

Photon emission for (n,p) α



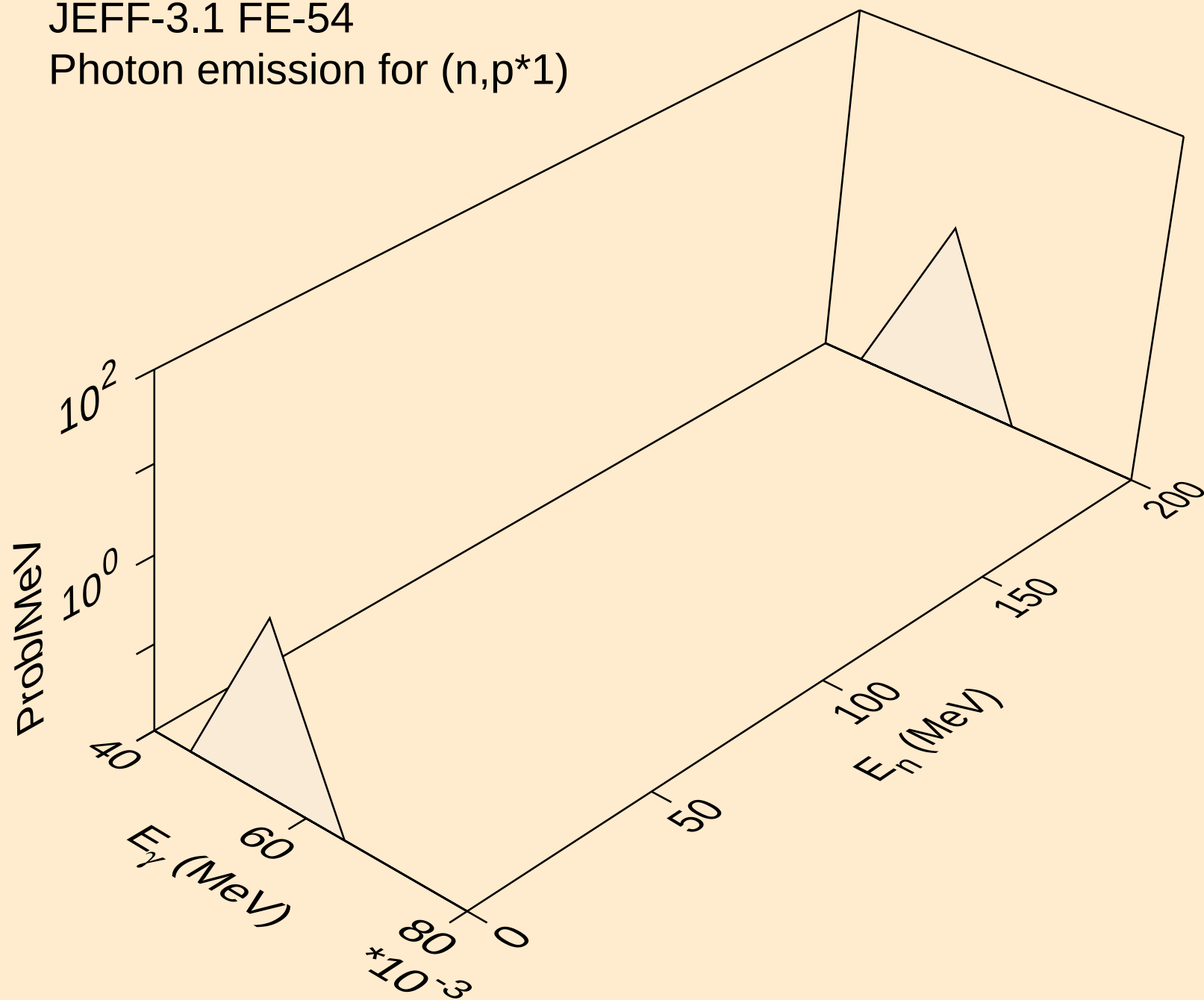
JEFF-3.1 FE-54

Photon emission for (n,pd)



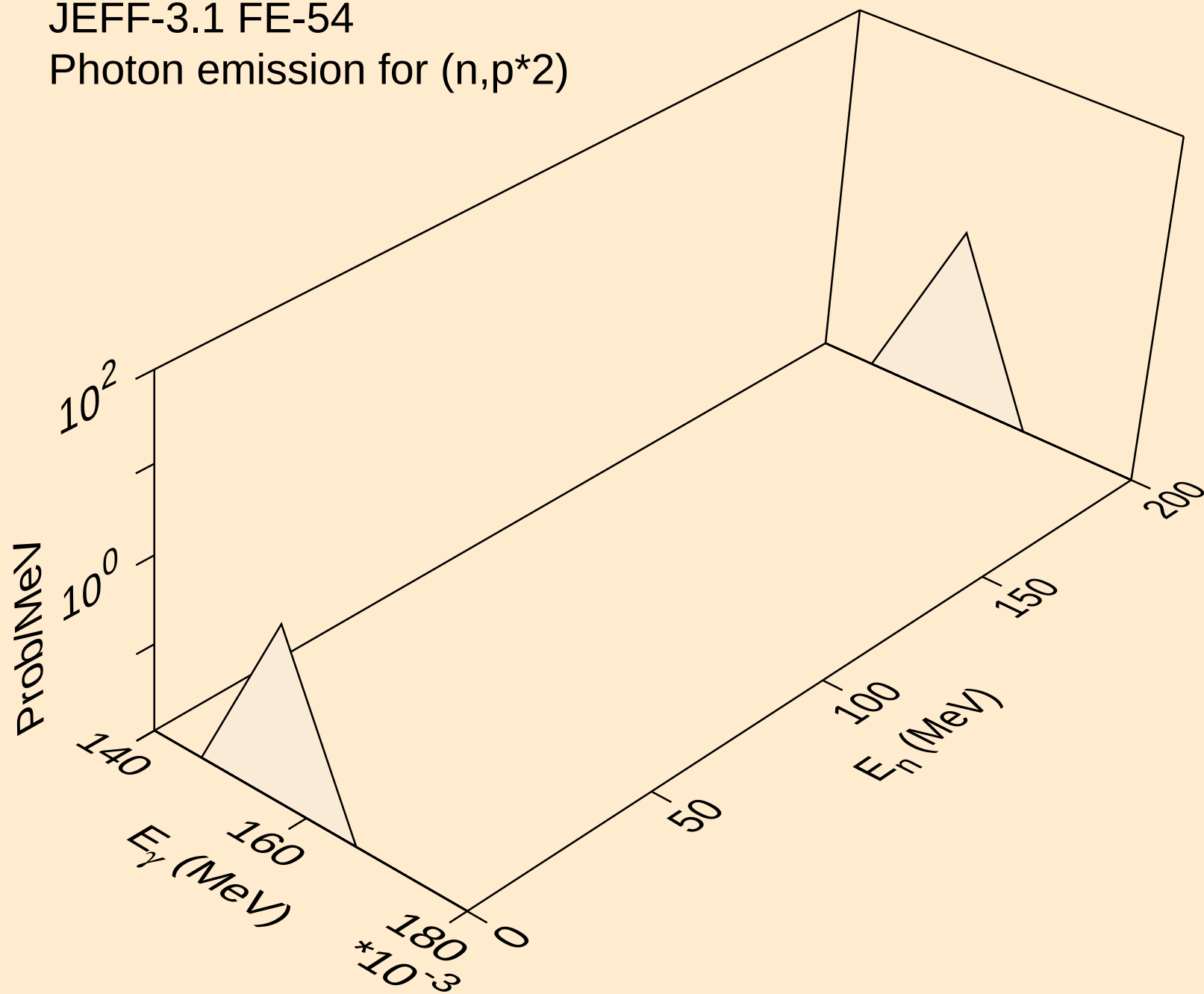
JEFF-3.1 FE-54

Photon emission for (n,p*1)



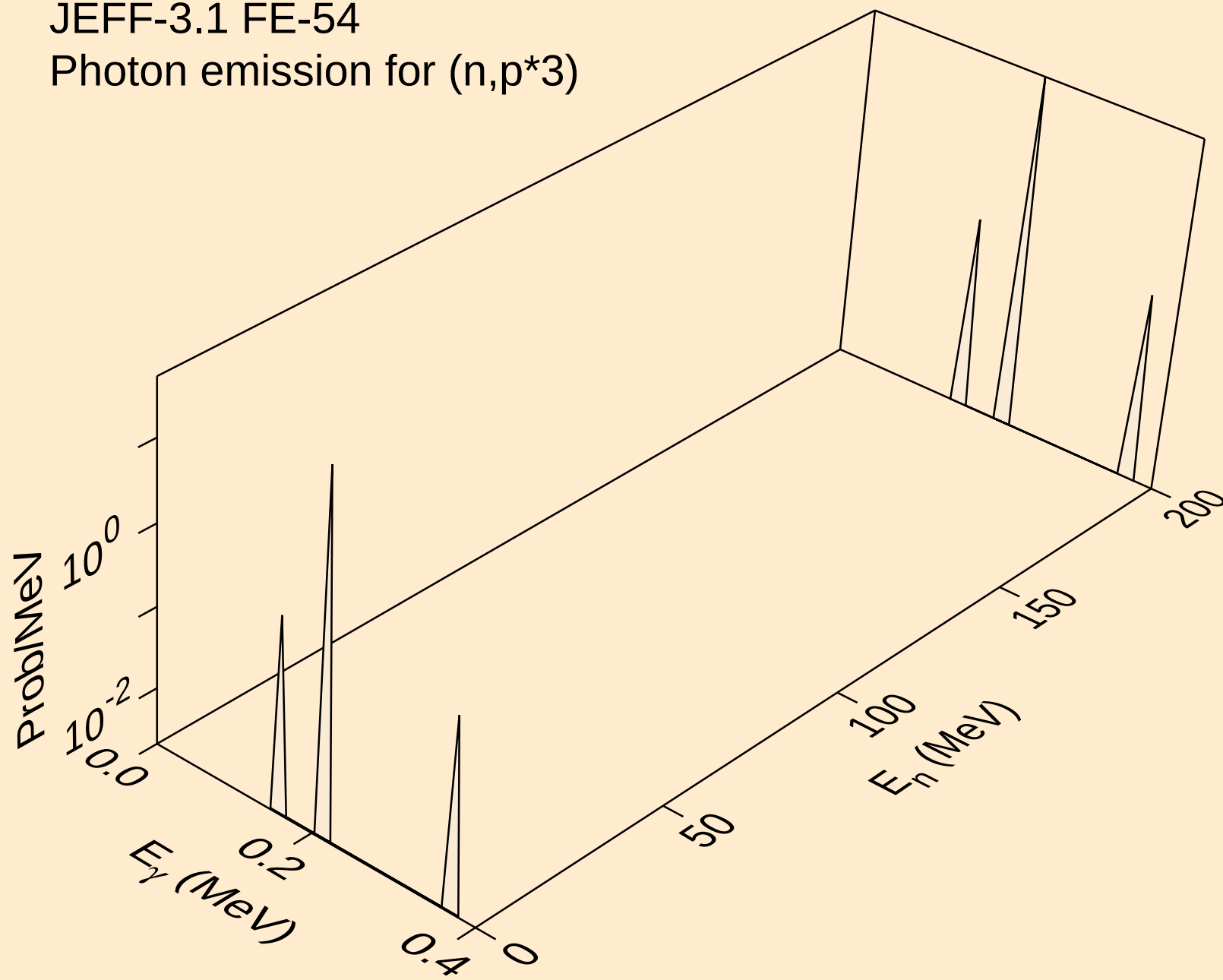
JEFF-3.1 FE-54

Photon emission for (n,p*2)



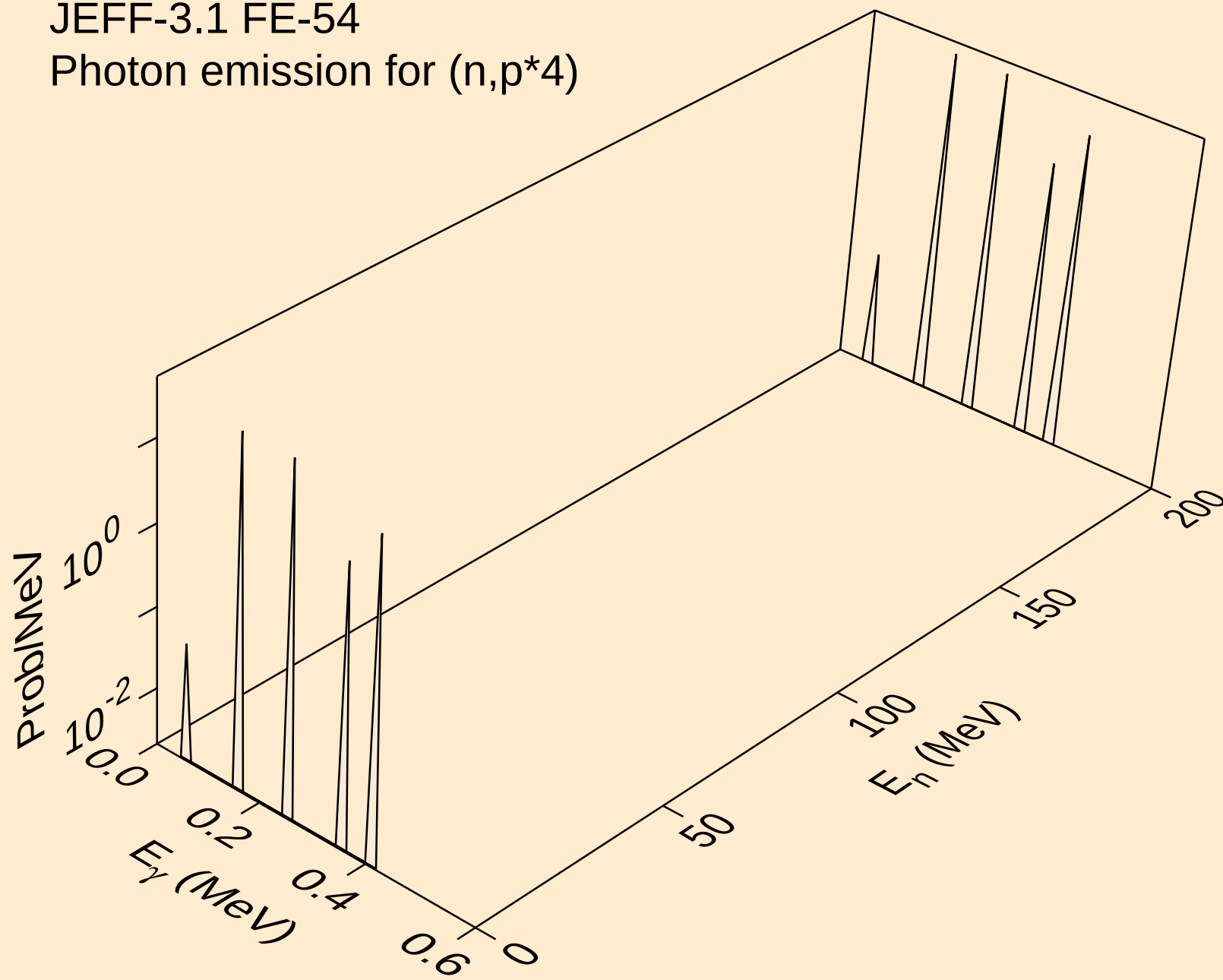
JEFF-3.1 FE-54

Photon emission for (n,p*3)



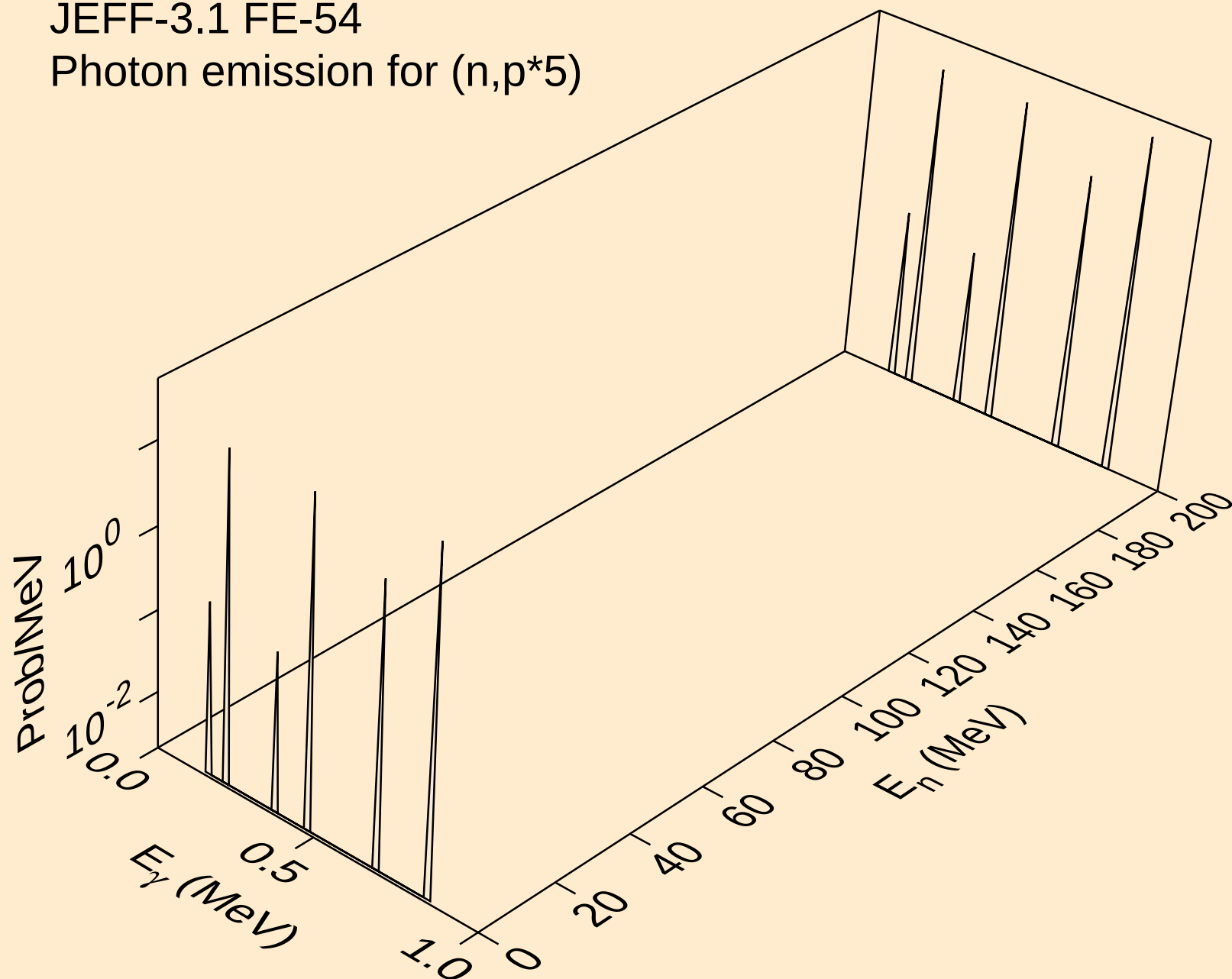
JEFF-3.1 FE-54

Photon emission for (n,p*4)



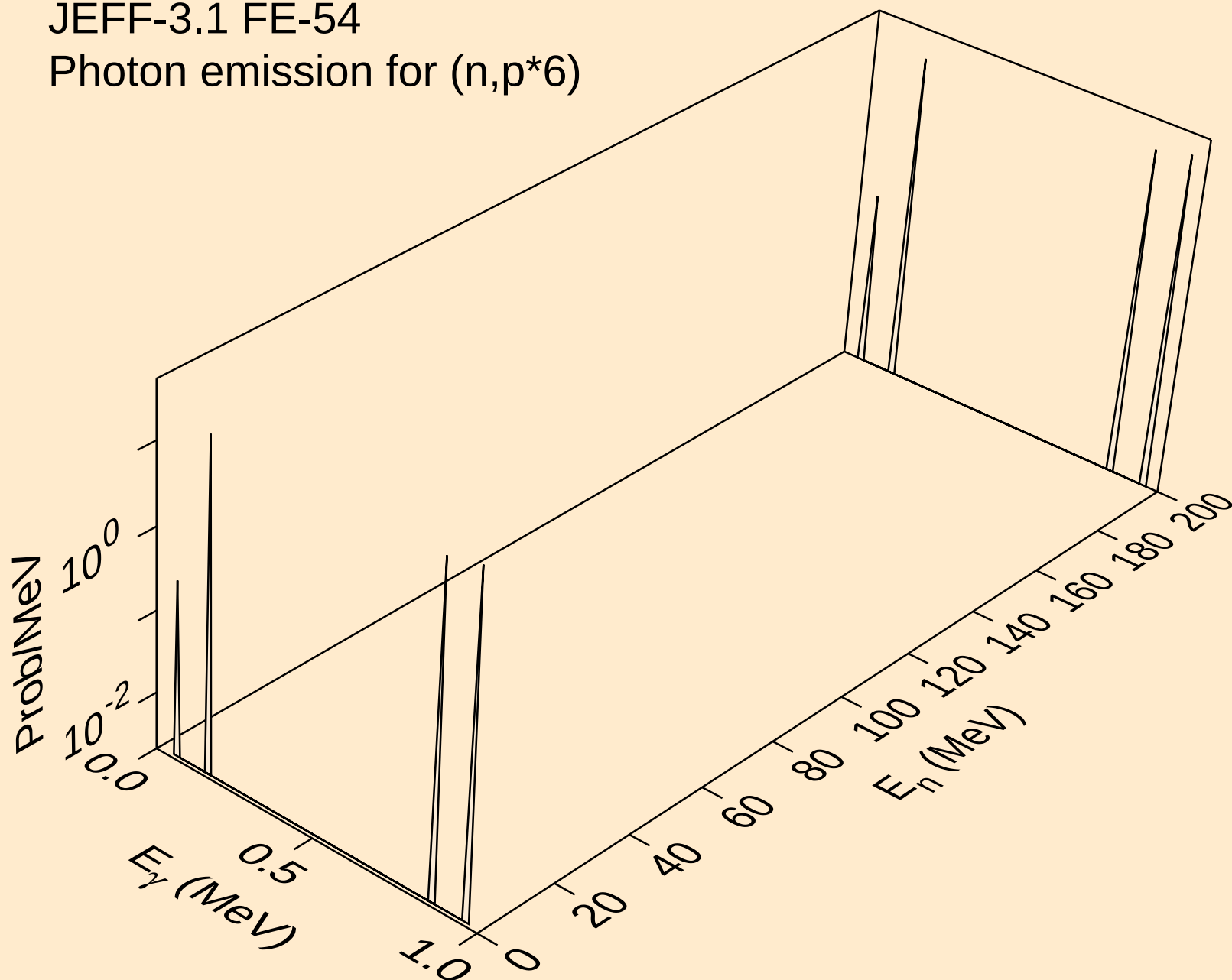
JEFF-3.1 FE-54

Photon emission for (n,p*5)



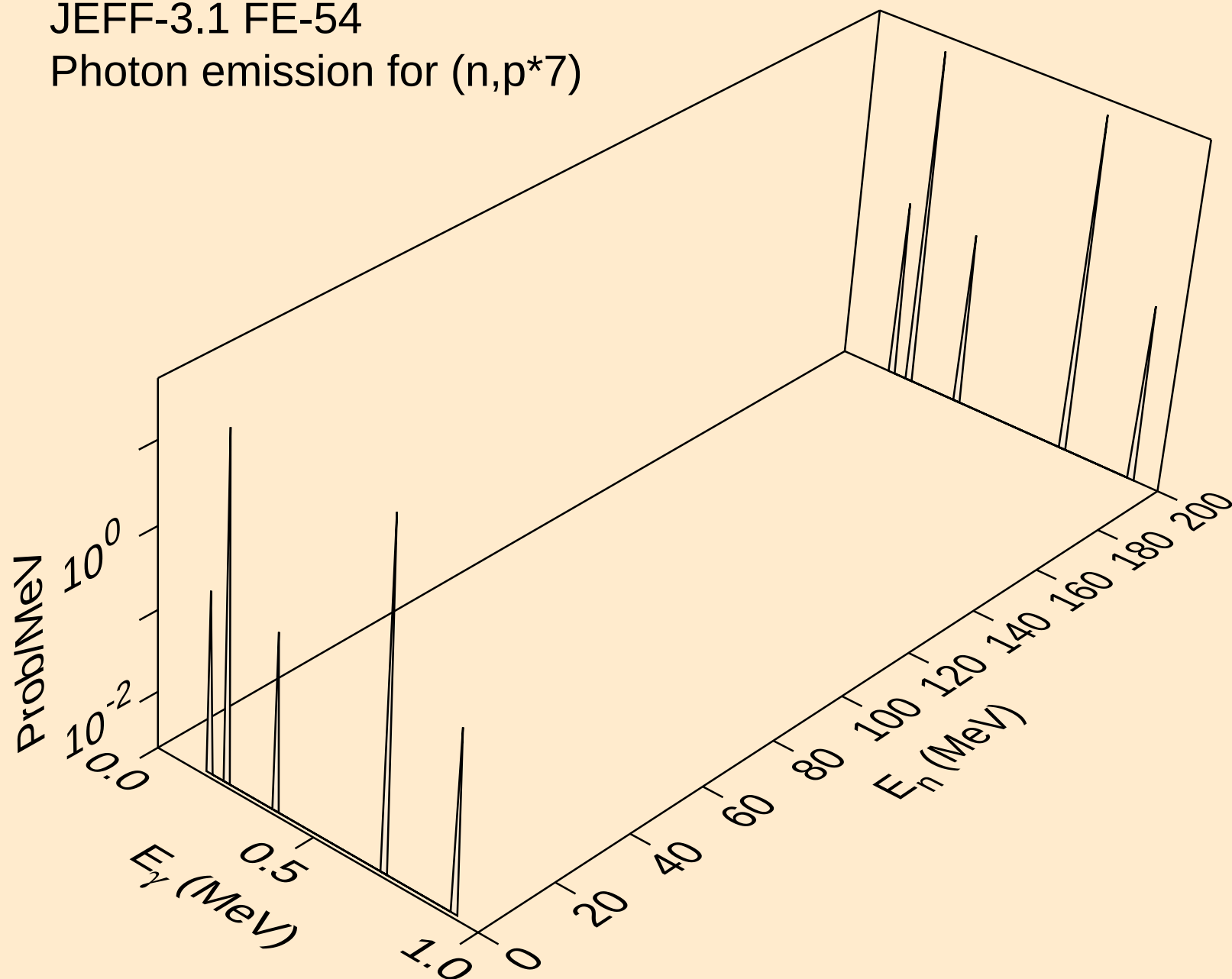
JEFF-3.1 FE-54

Photon emission for (n,p*6)



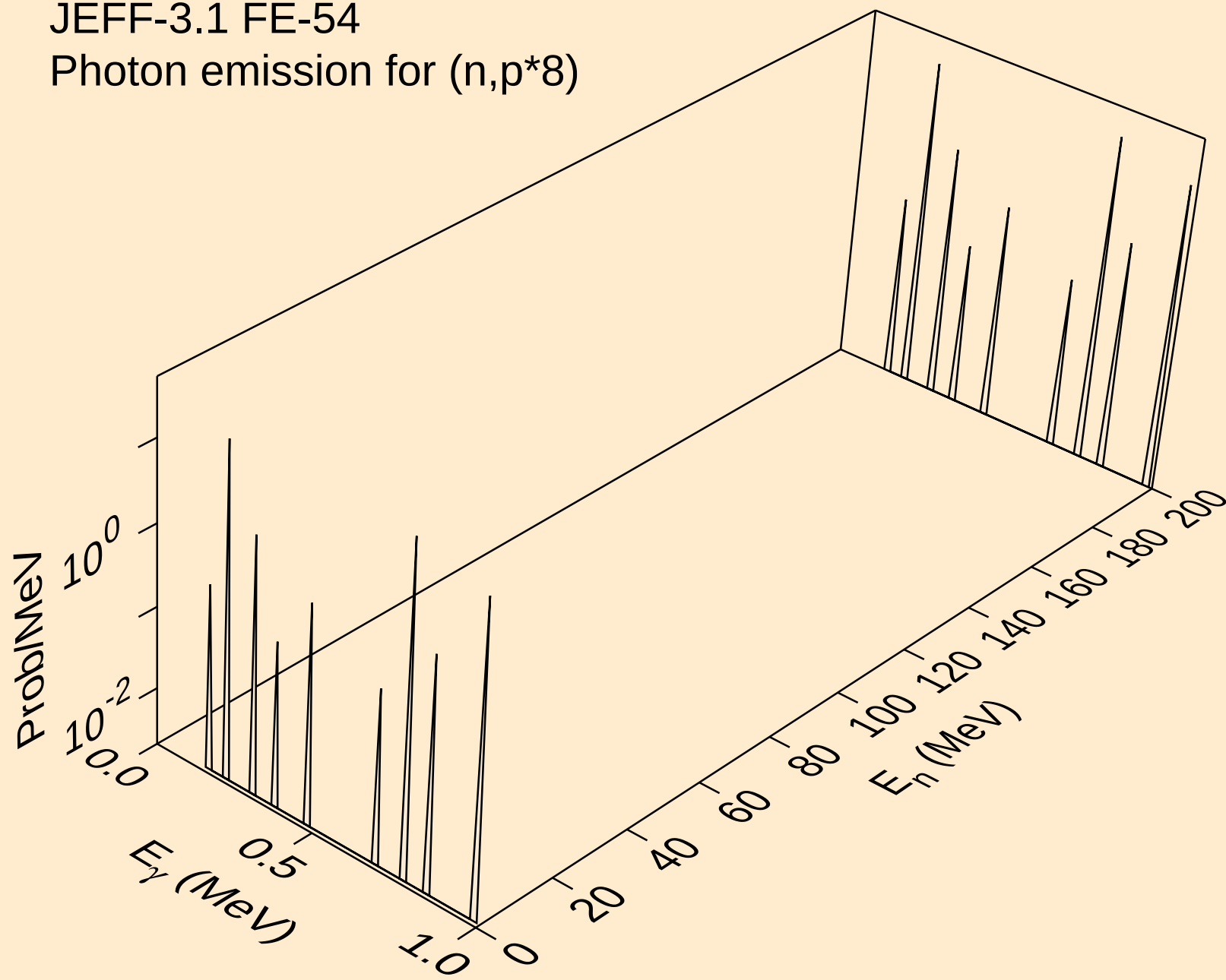
JEFF-3.1 FE-54

Photon emission for (n,p*7)



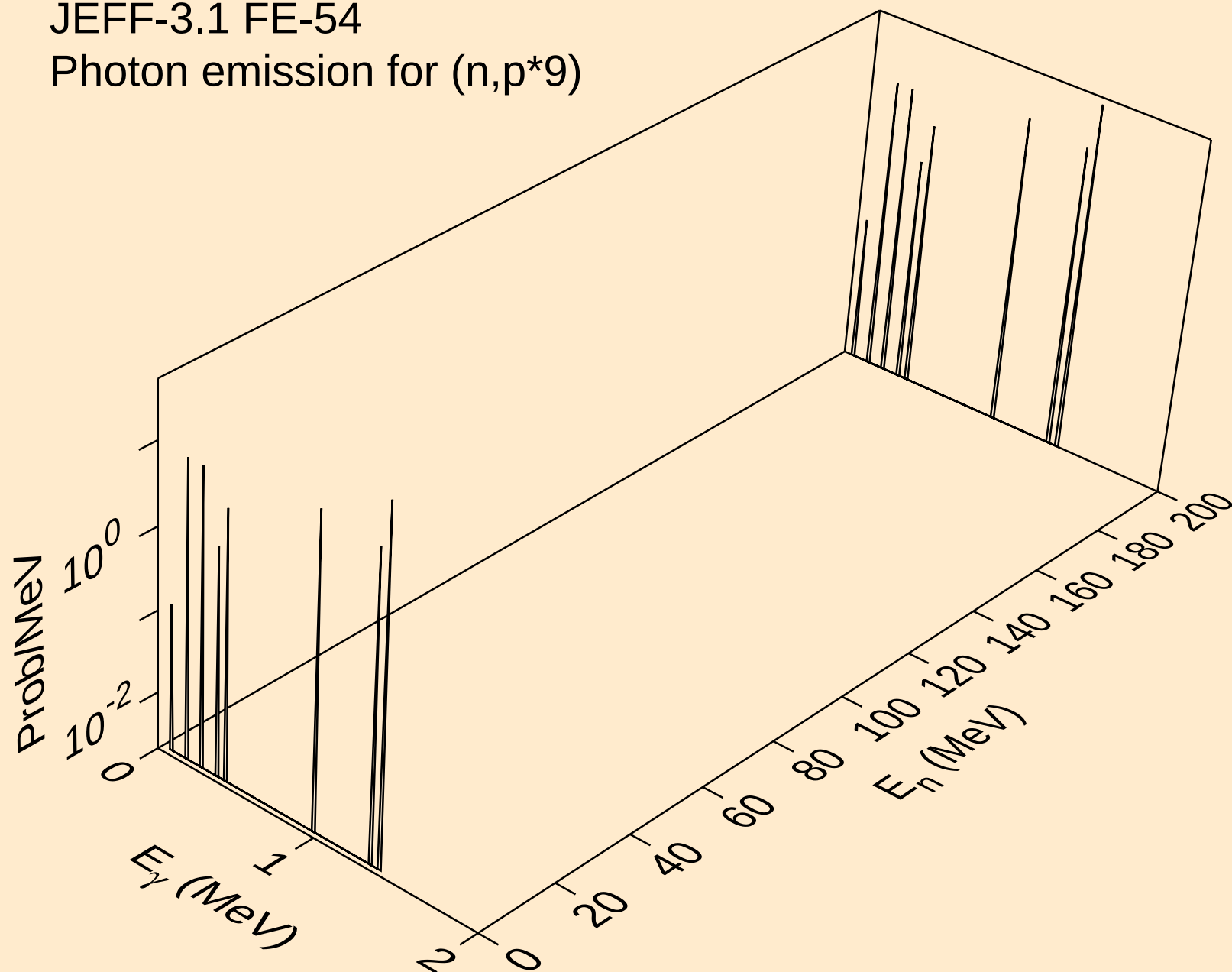
JEFF-3.1 FE-54

Photon emission for (n,p*8)



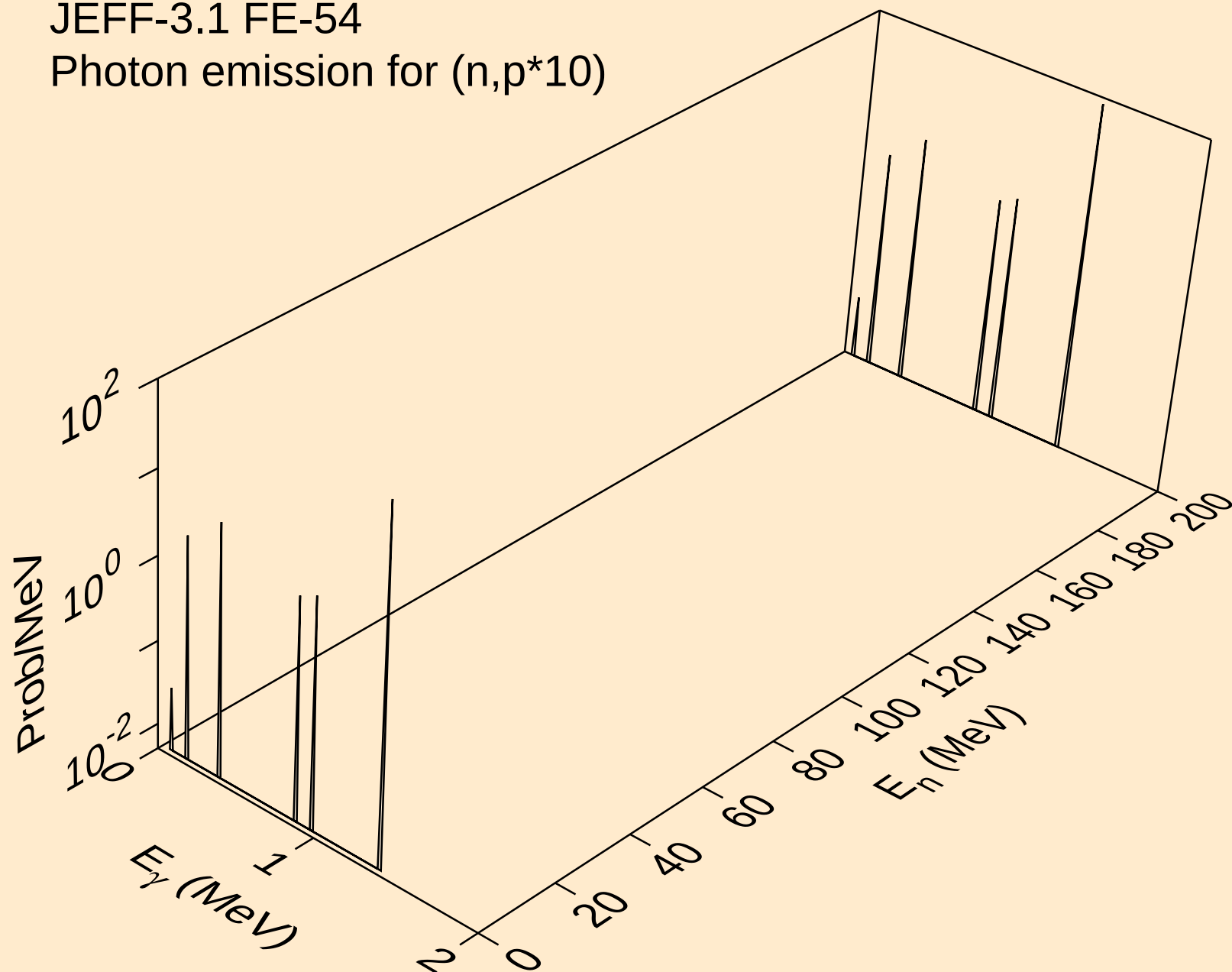
JEFF-3.1 FE-54

Photon emission for (n,p*9)



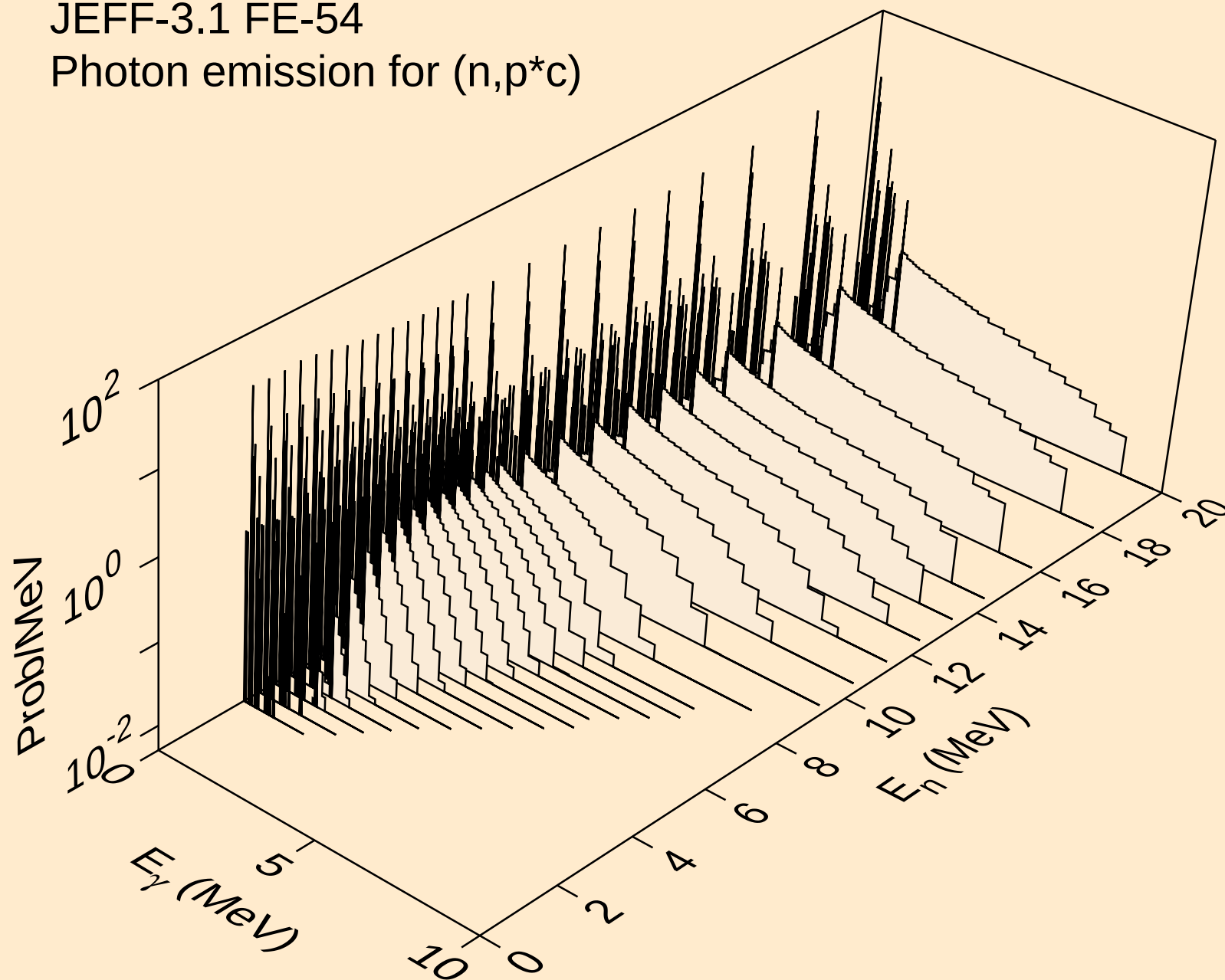
JEFF-3.1 FE-54

Photon emission for (n,p*10)



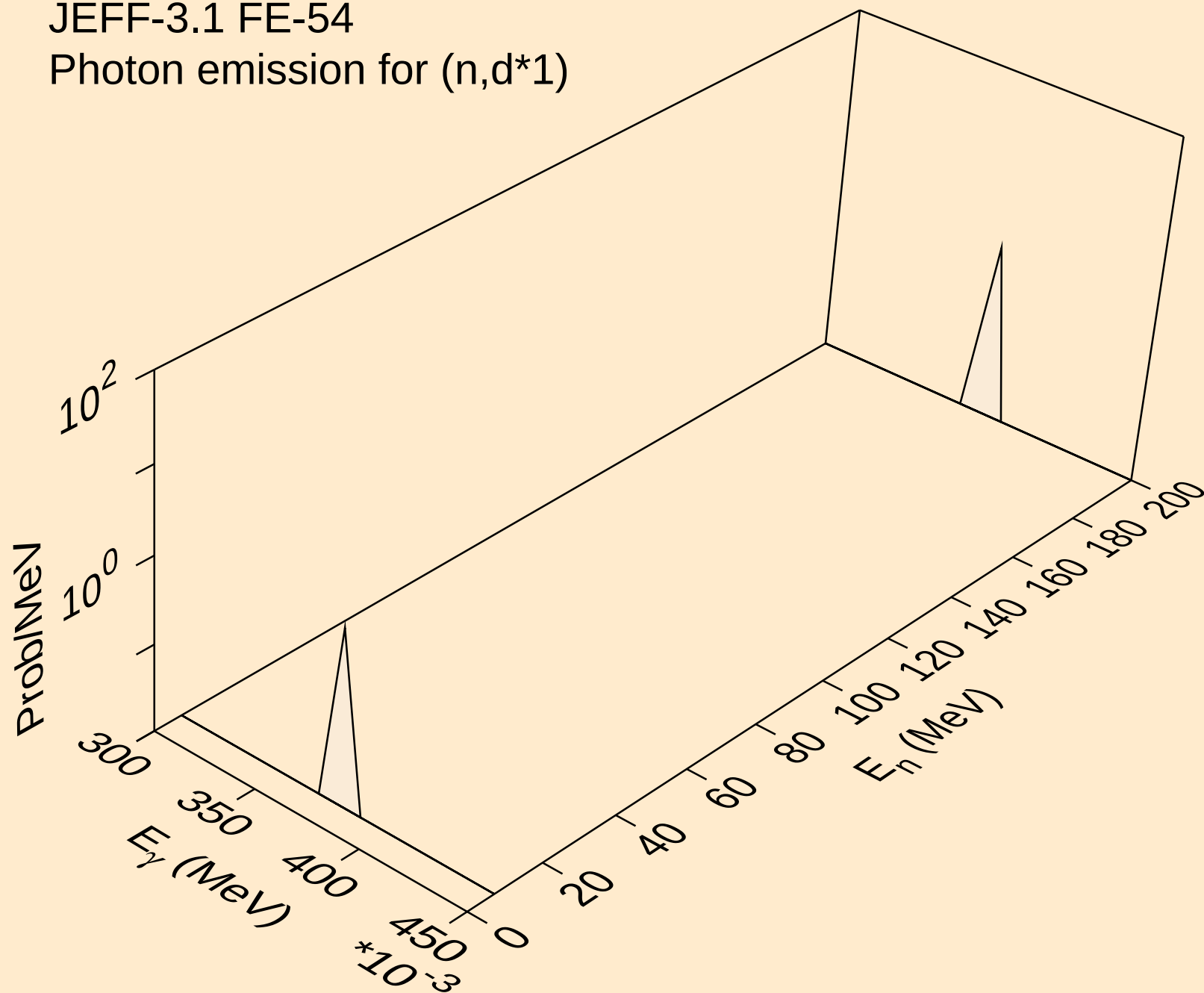
JEFF-3.1 FE-54

Photon emission for (n,p*c)



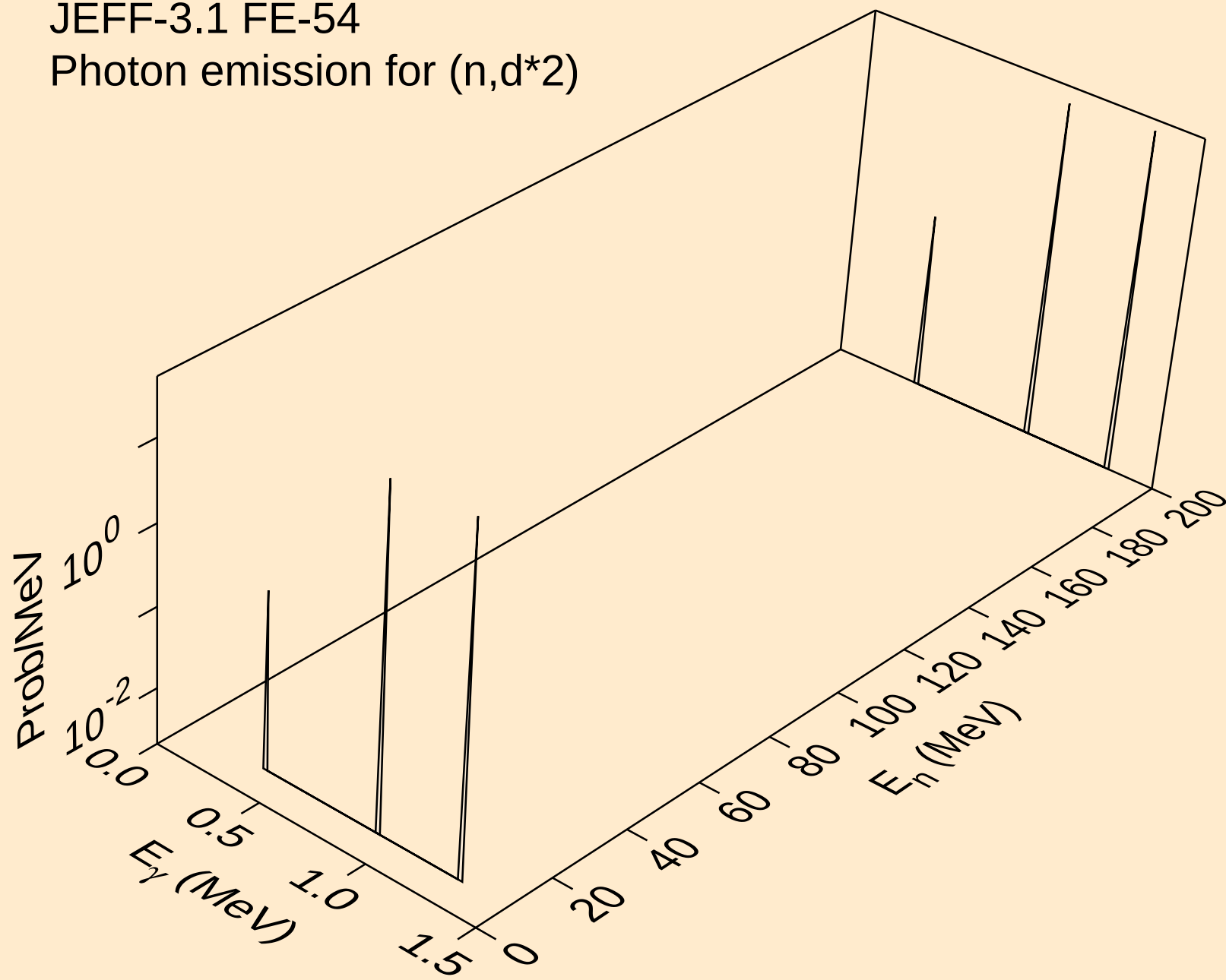
JEFF-3.1 FE-54

Photon emission for (n,d*1)

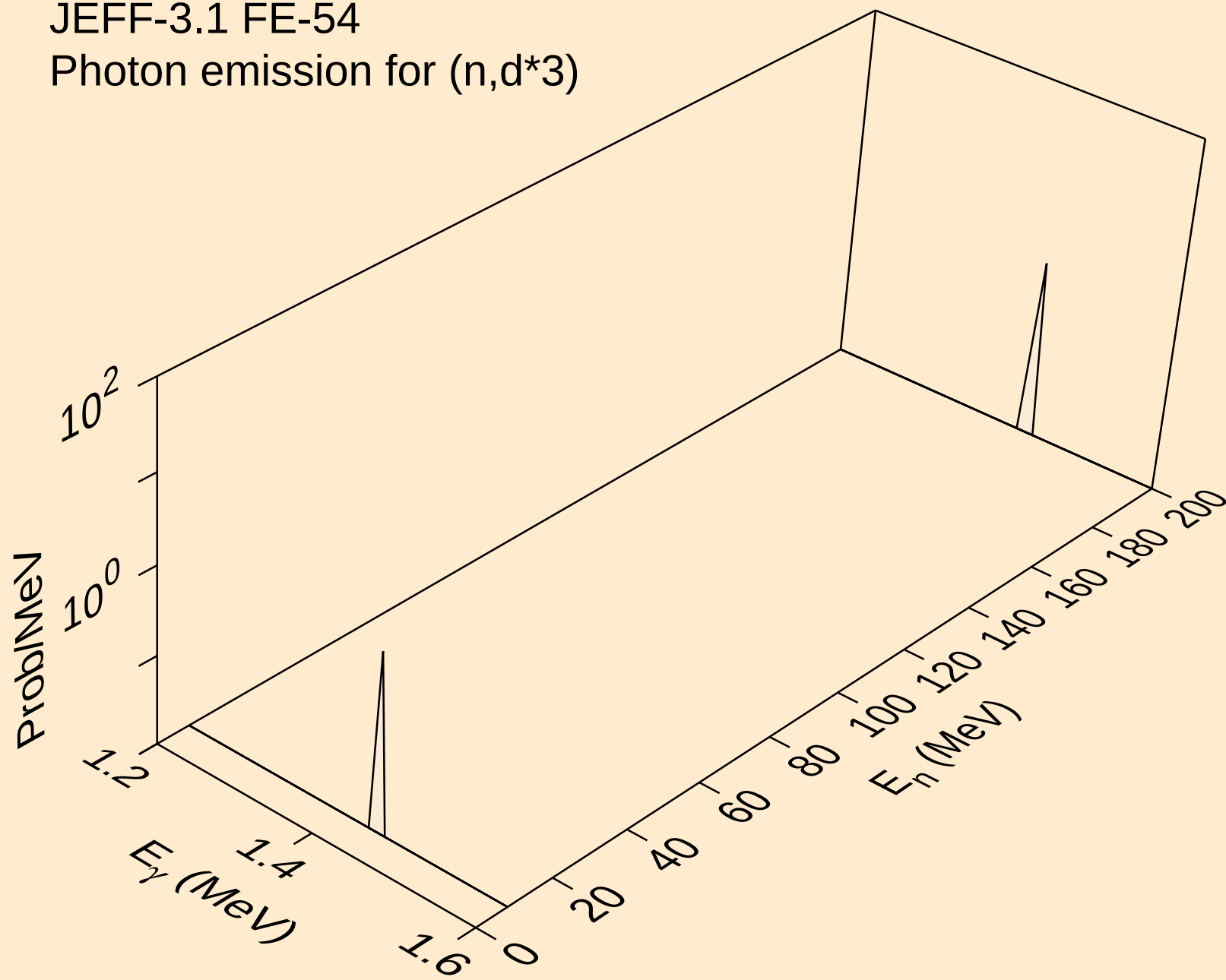


JEFF-3.1 FE-54

Photon emission for (n,d*2)

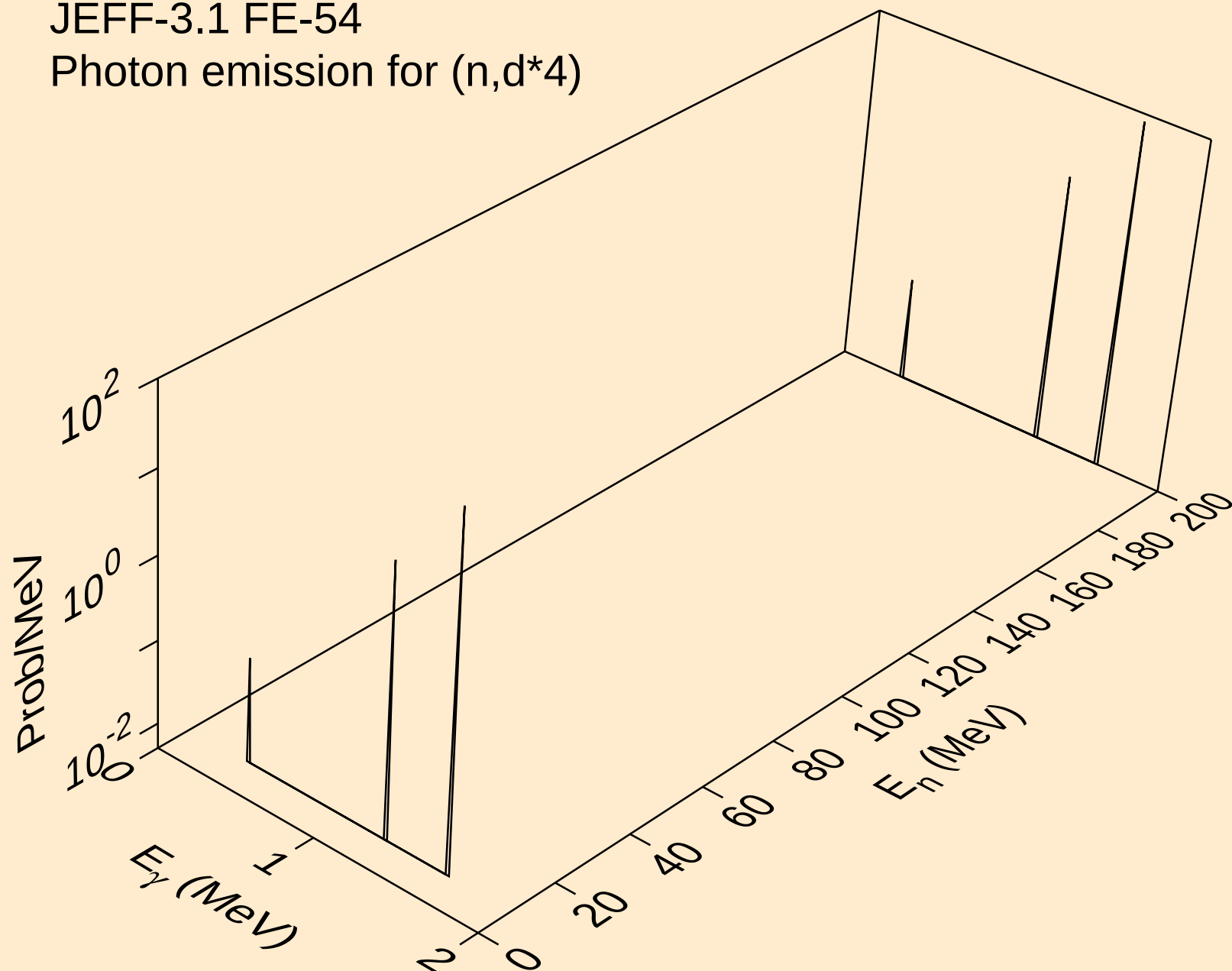


JEFF-3.1 FE-54
Photon emission for (n,d*3)



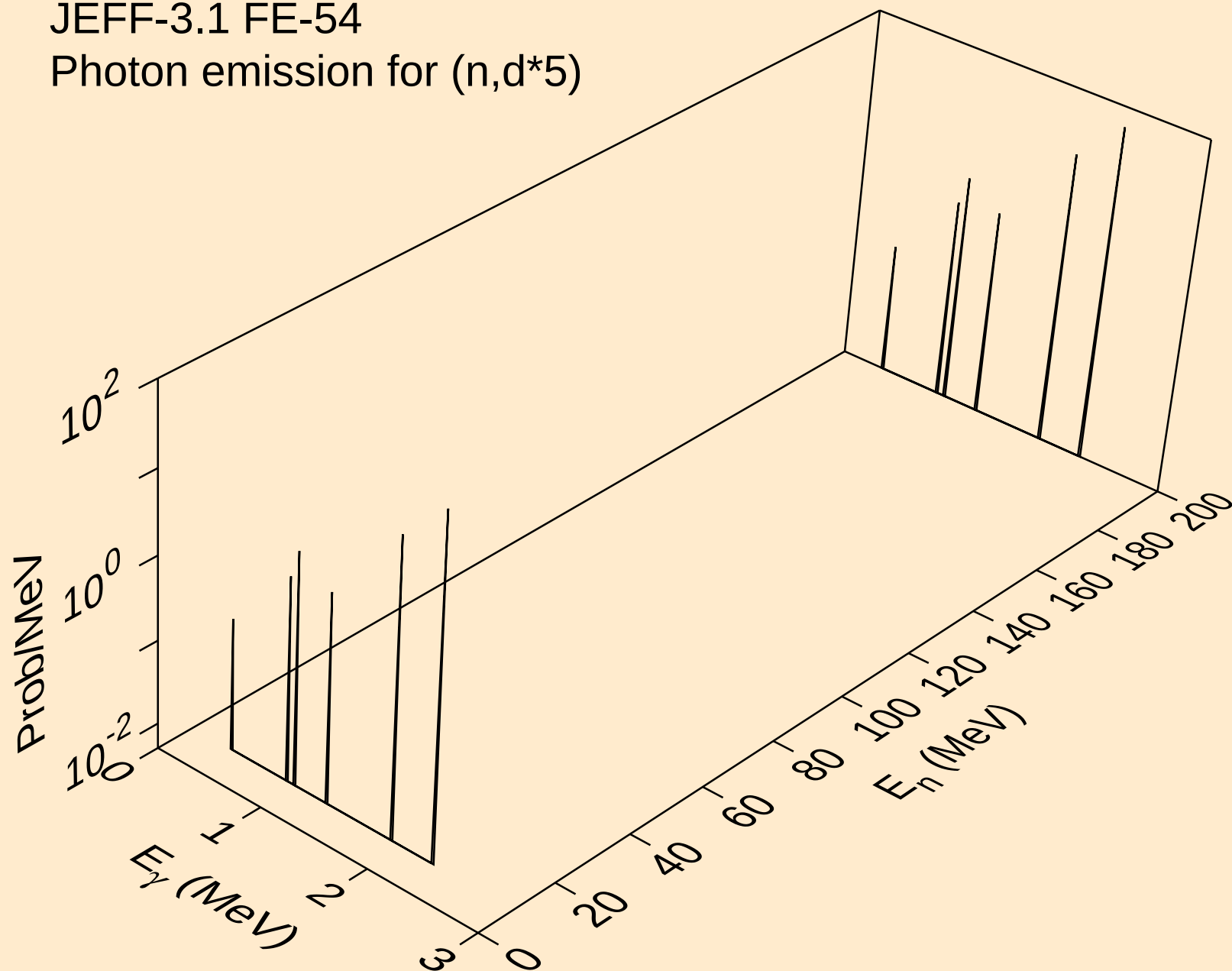
JEFF-3.1 FE-54

Photon emission for (n,d*4)

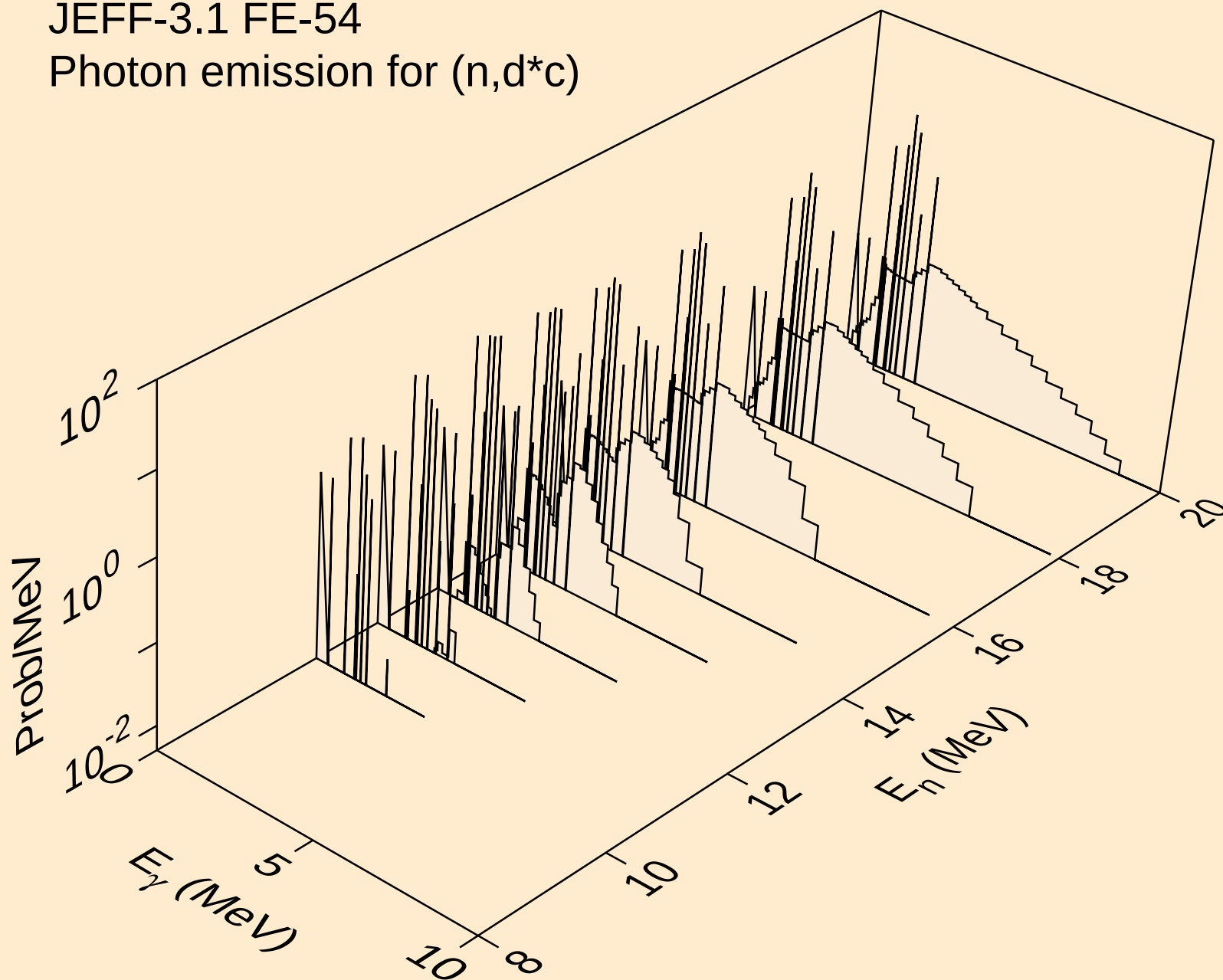


JEFF-3.1 FE-54

Photon emission for (n,d*5)

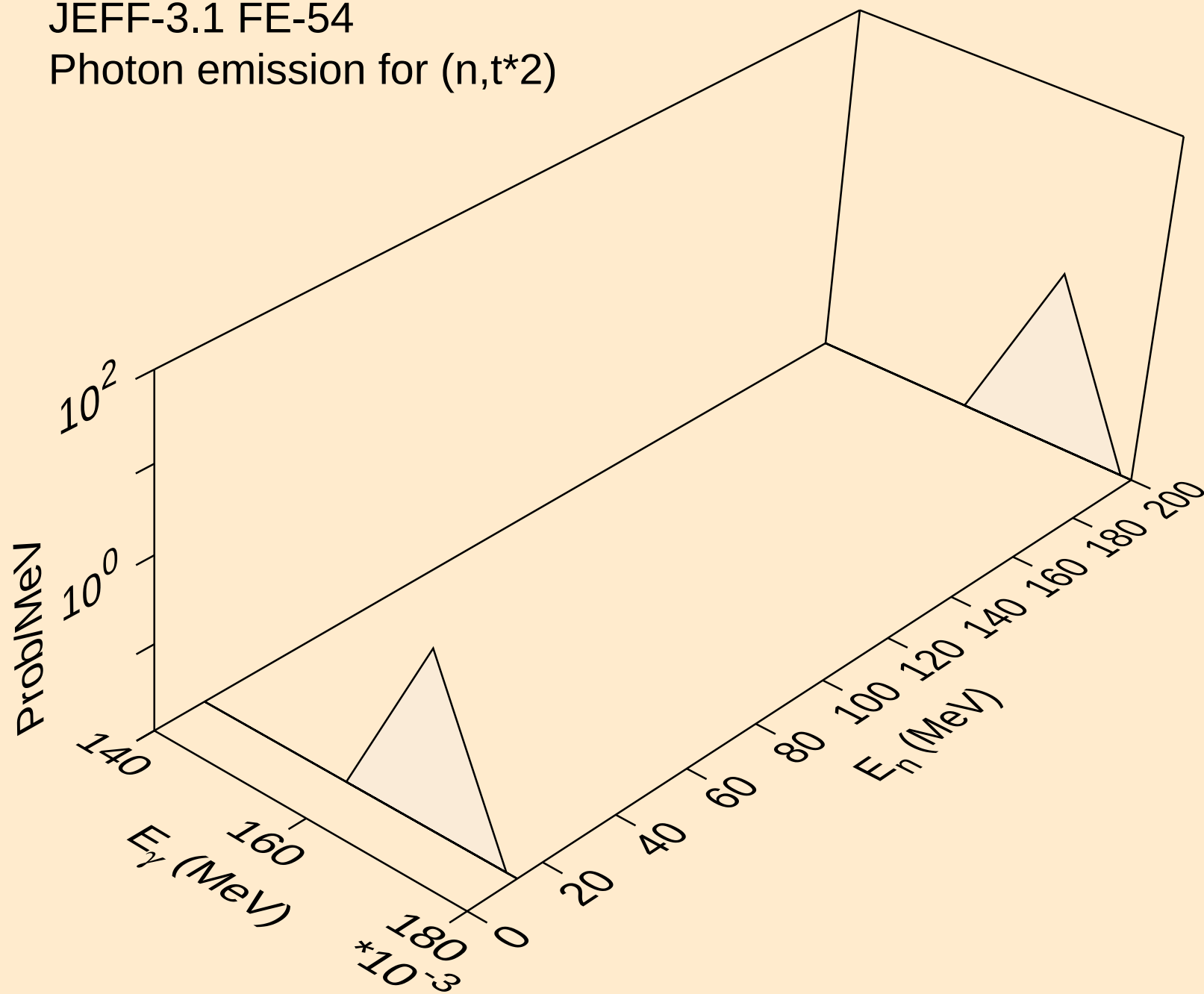


JEFF-3.1 FE-54
Photon emission for (n,d*c)



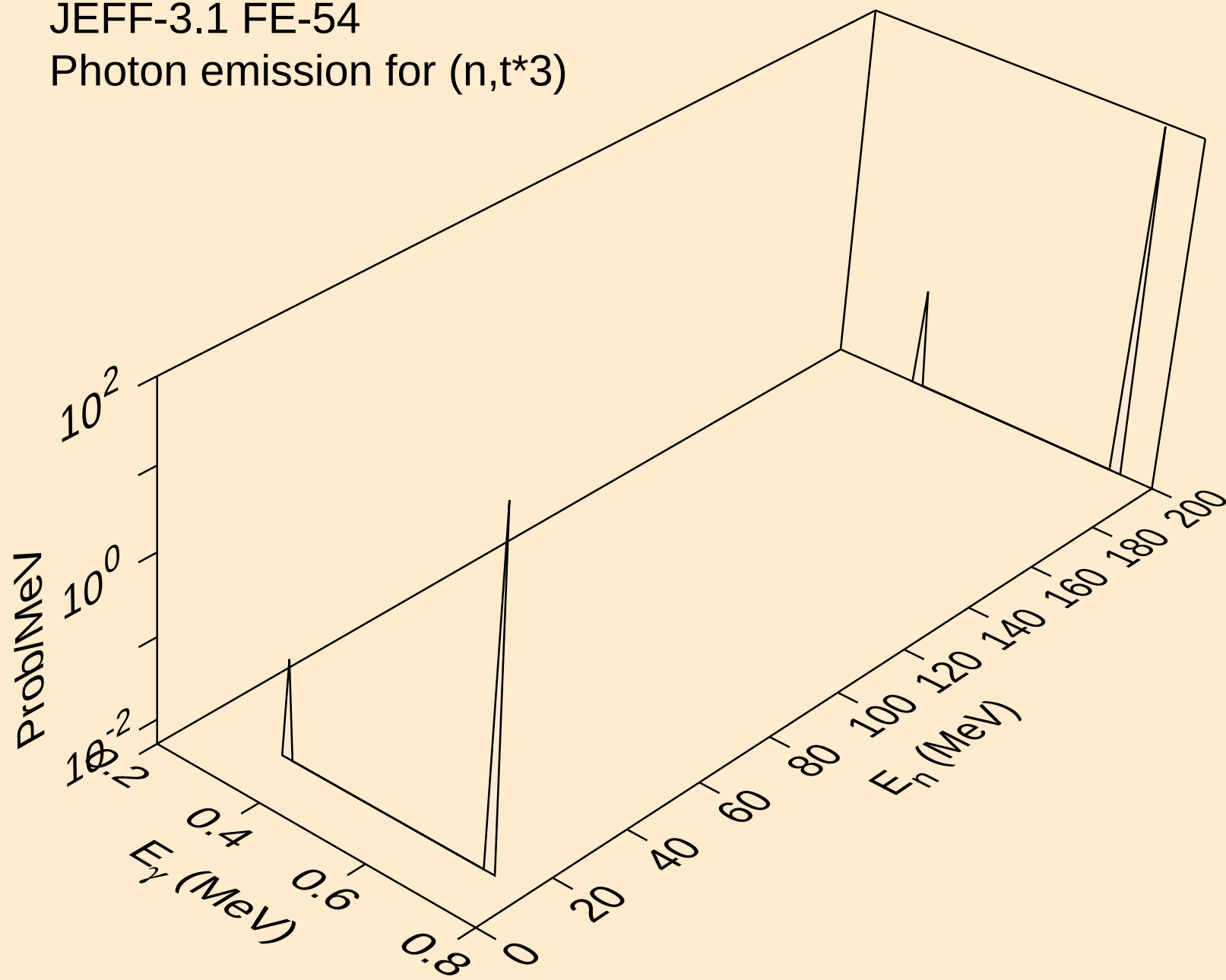
JEFF-3.1 FE-54

Photon emission for (n,t*2)



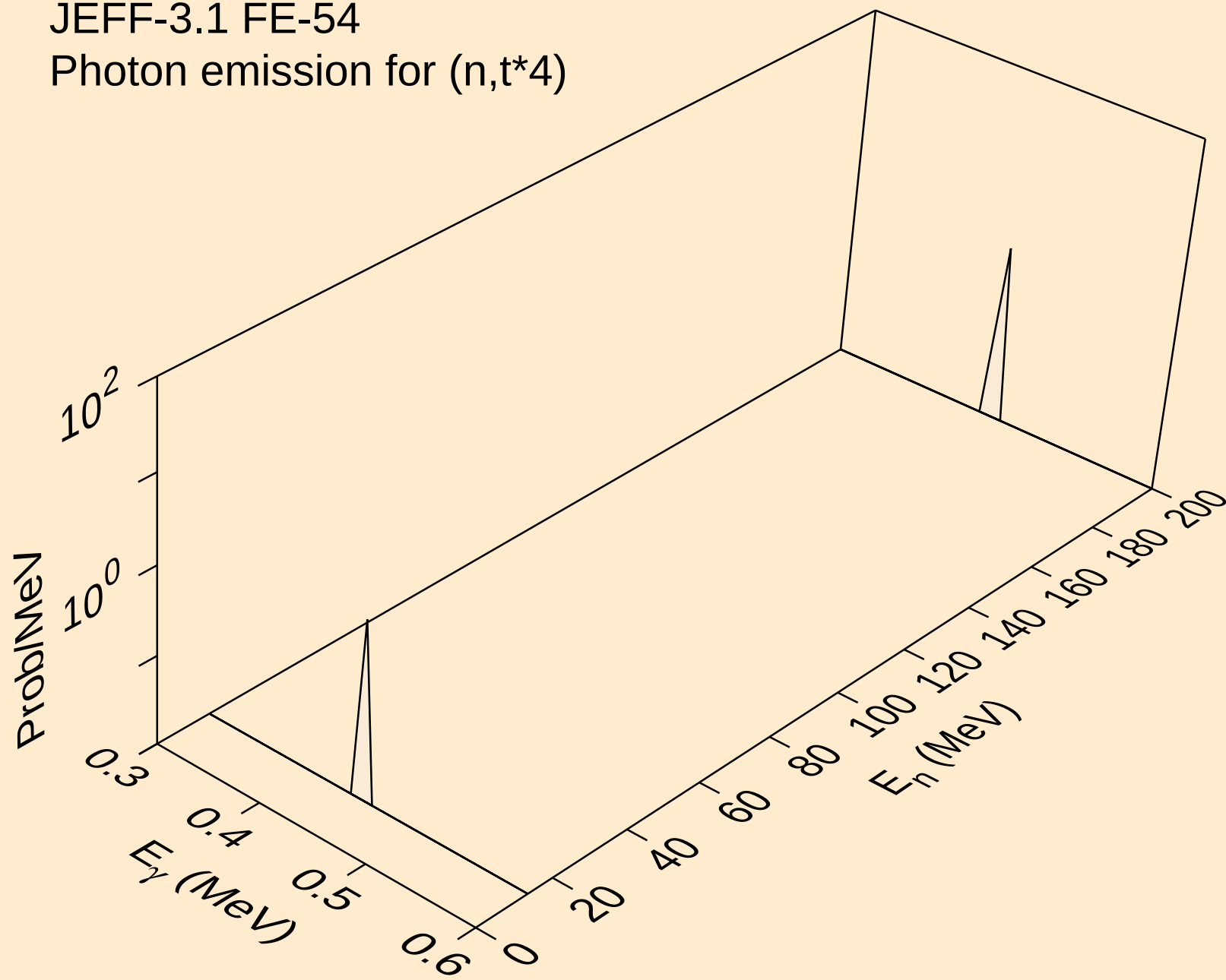
JEFF-3.1 FE-54

Photon emission for (n,t*3)



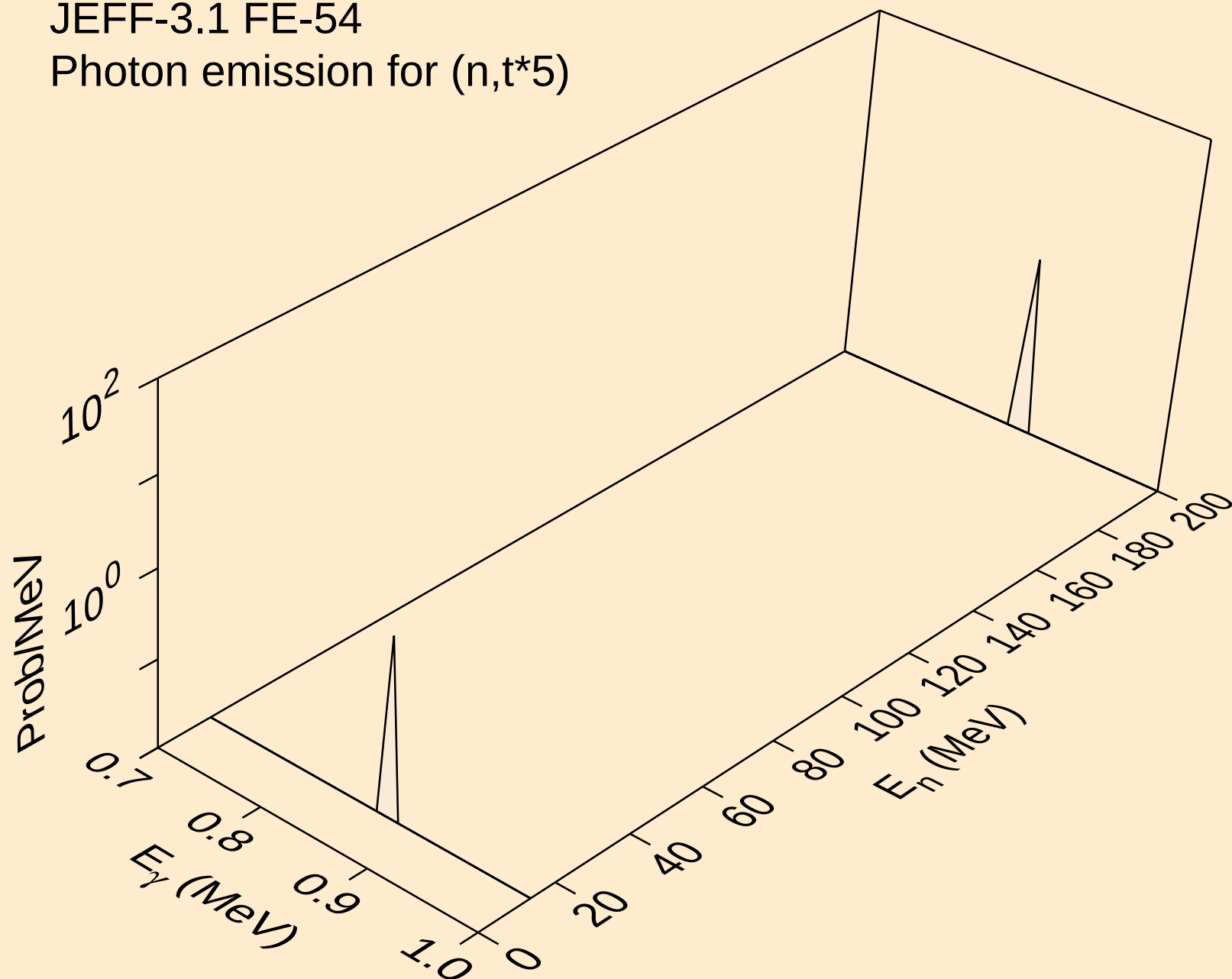
JEFF-3.1 FE-54

Photon emission for (n,t*4)



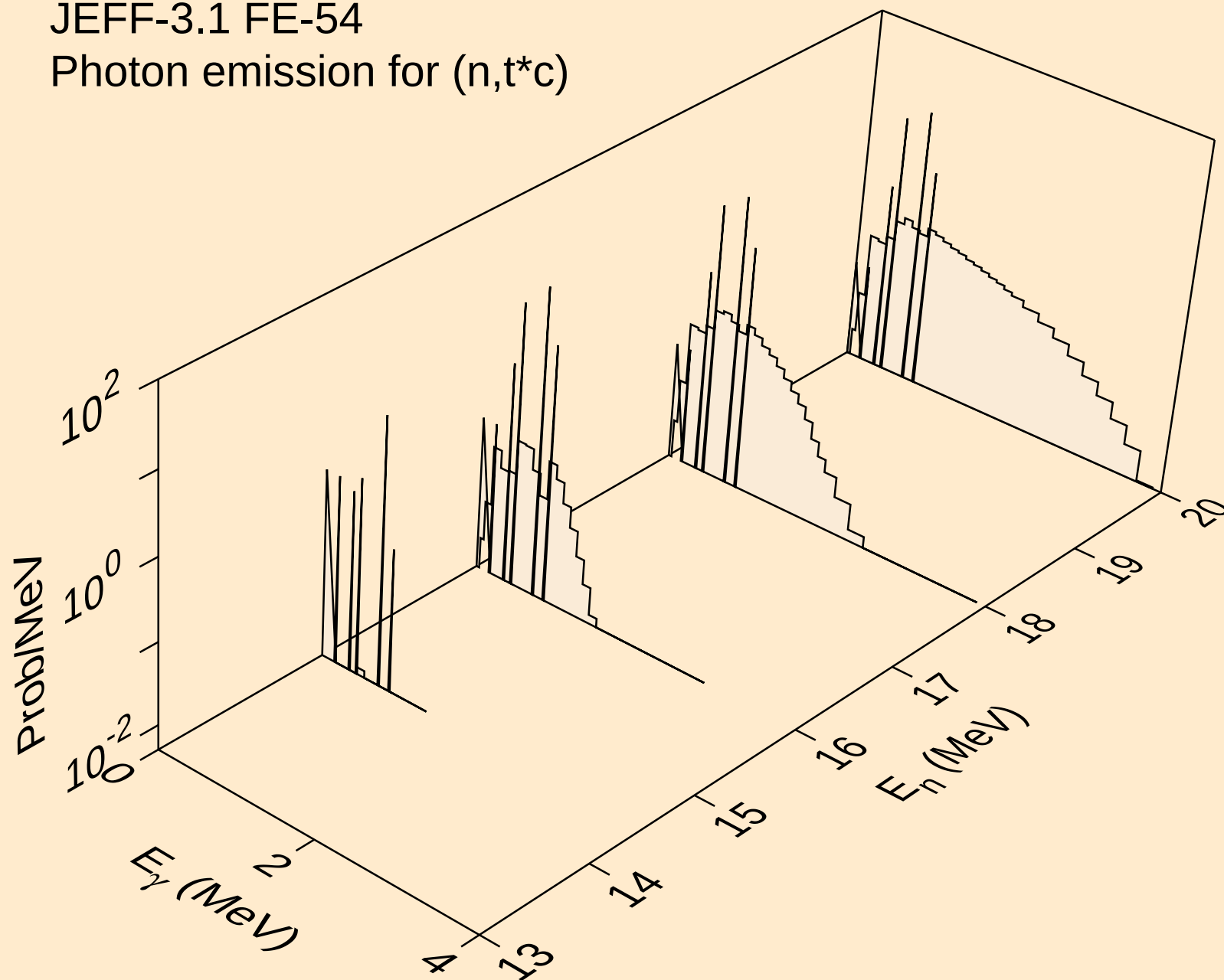
JEFF-3.1 FE-54

Photon emission for (n,t*5)



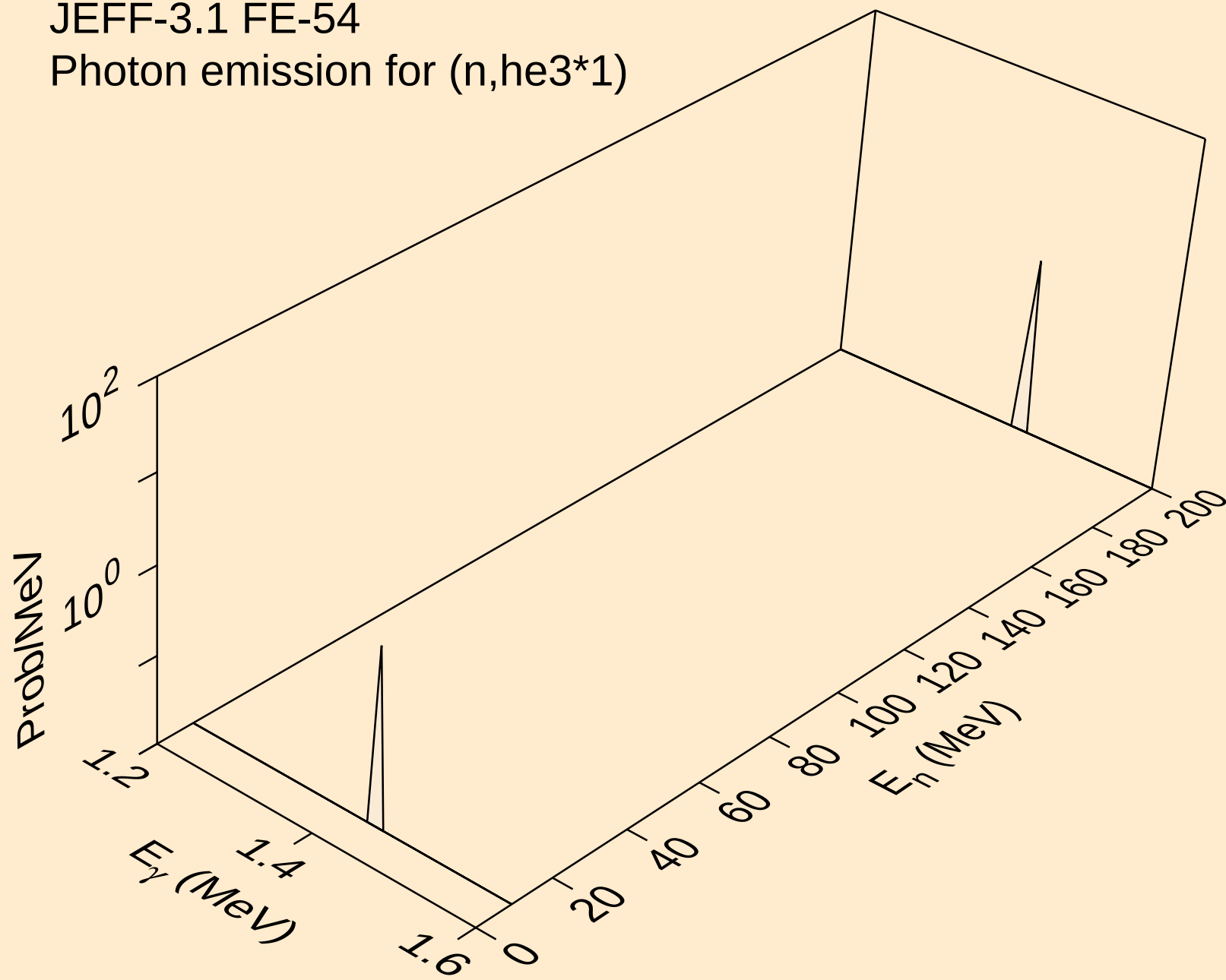
JEFF-3.1 FE-54

Photon emission for (n,t*c)



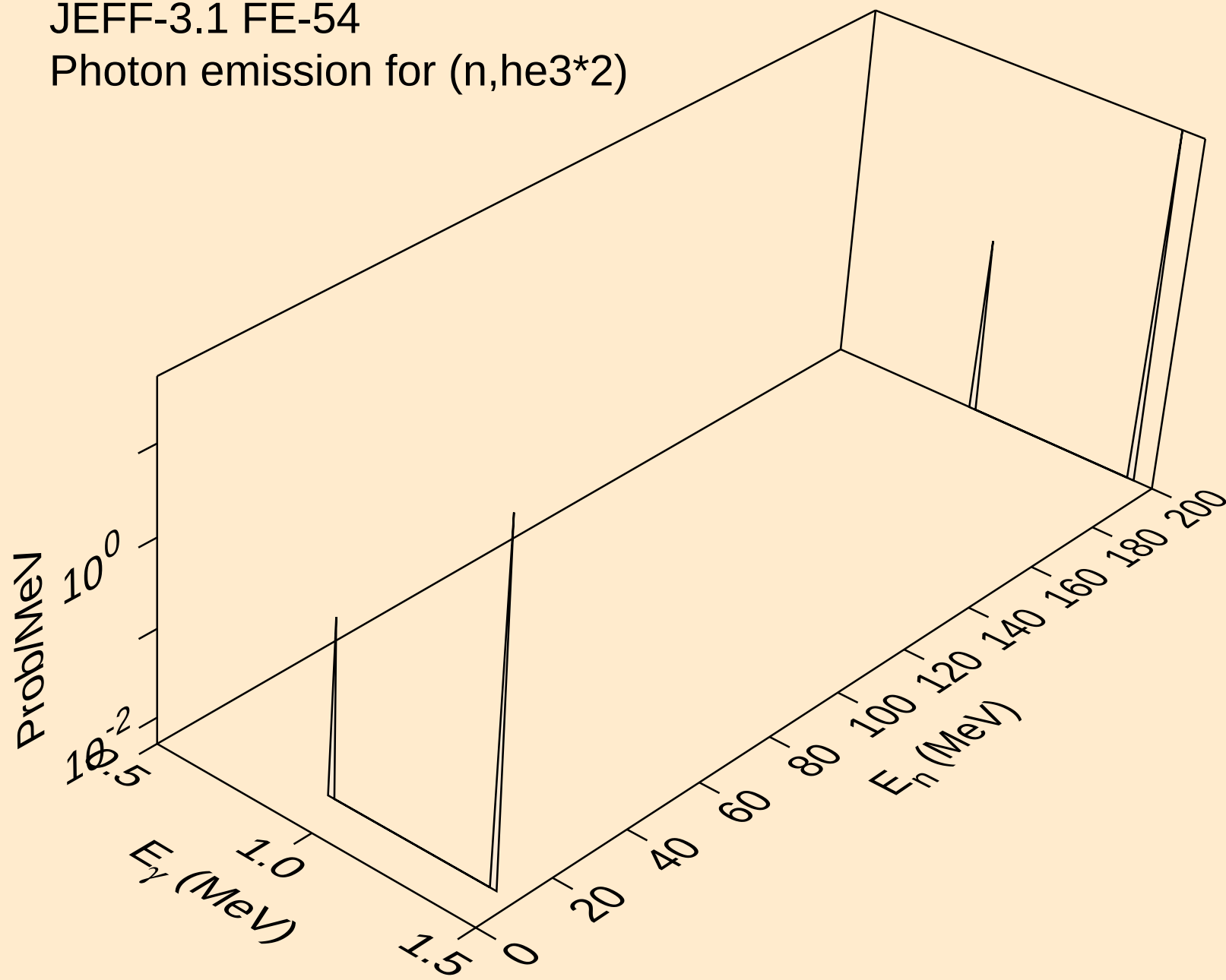
JEFF-3.1 FE-54

Photon emission for (n,he3*1)



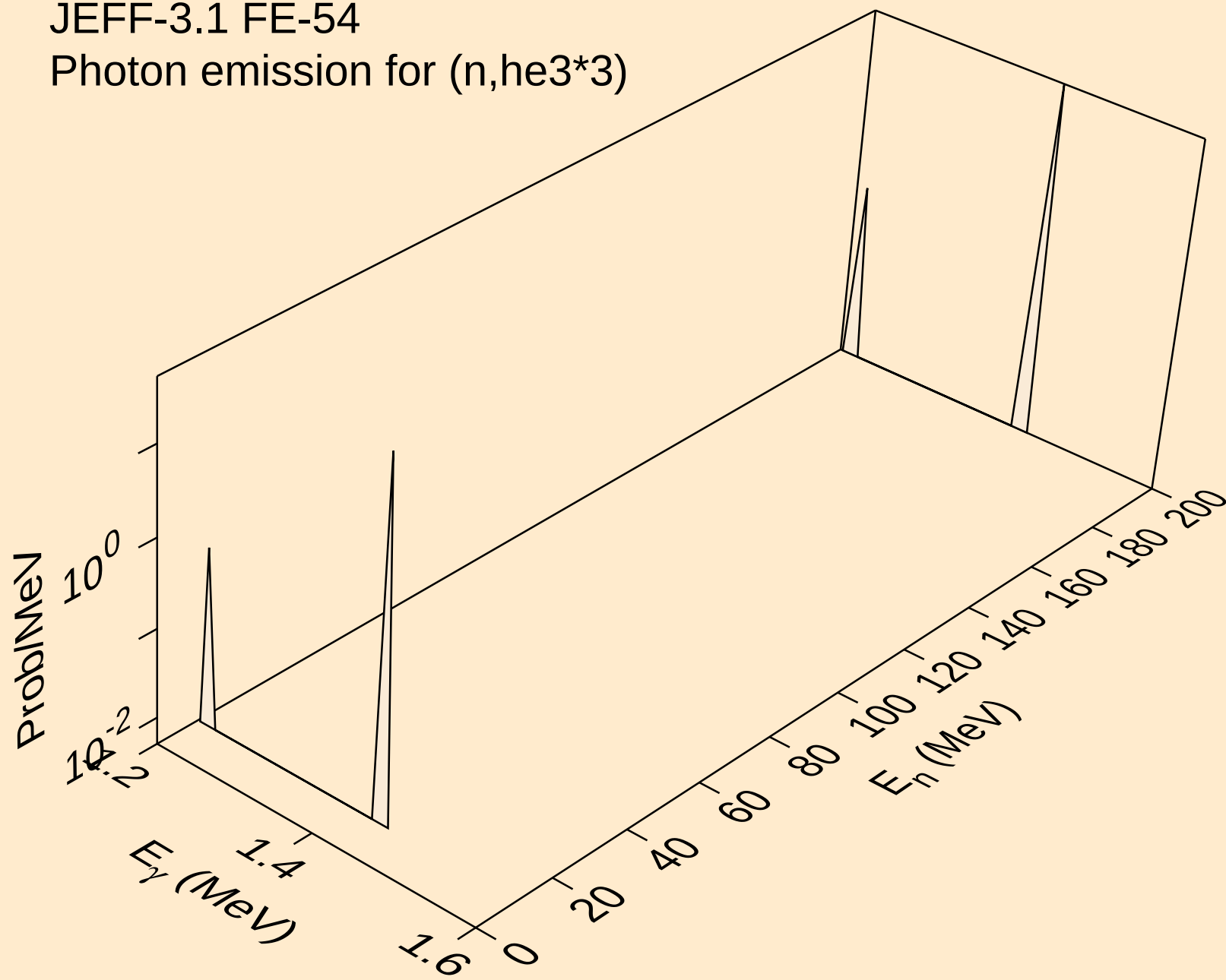
JEFF-3.1 FE-54

Photon emission for (n,he3*2)



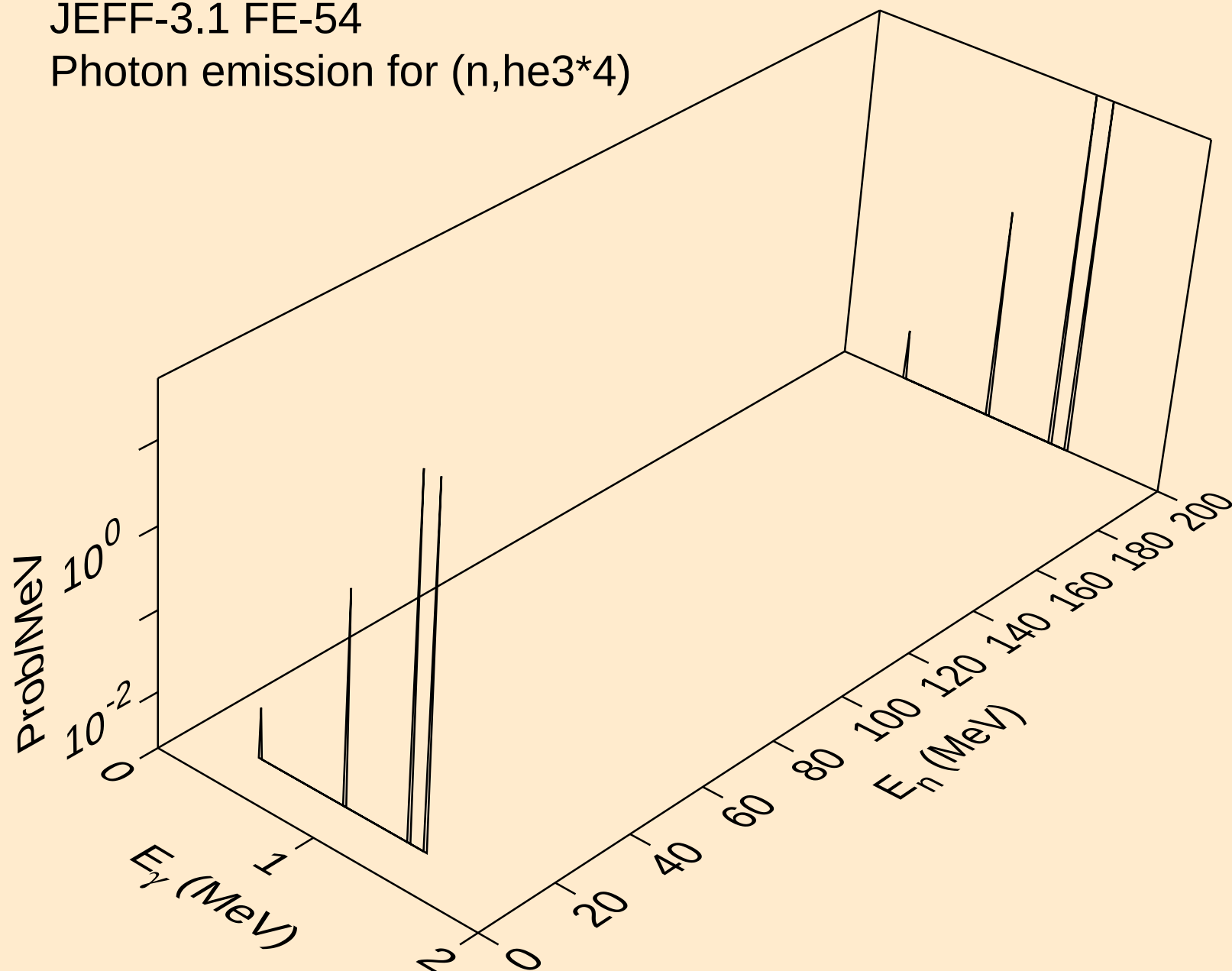
JEFF-3.1 FE-54

Photon emission for (n,he3*3)



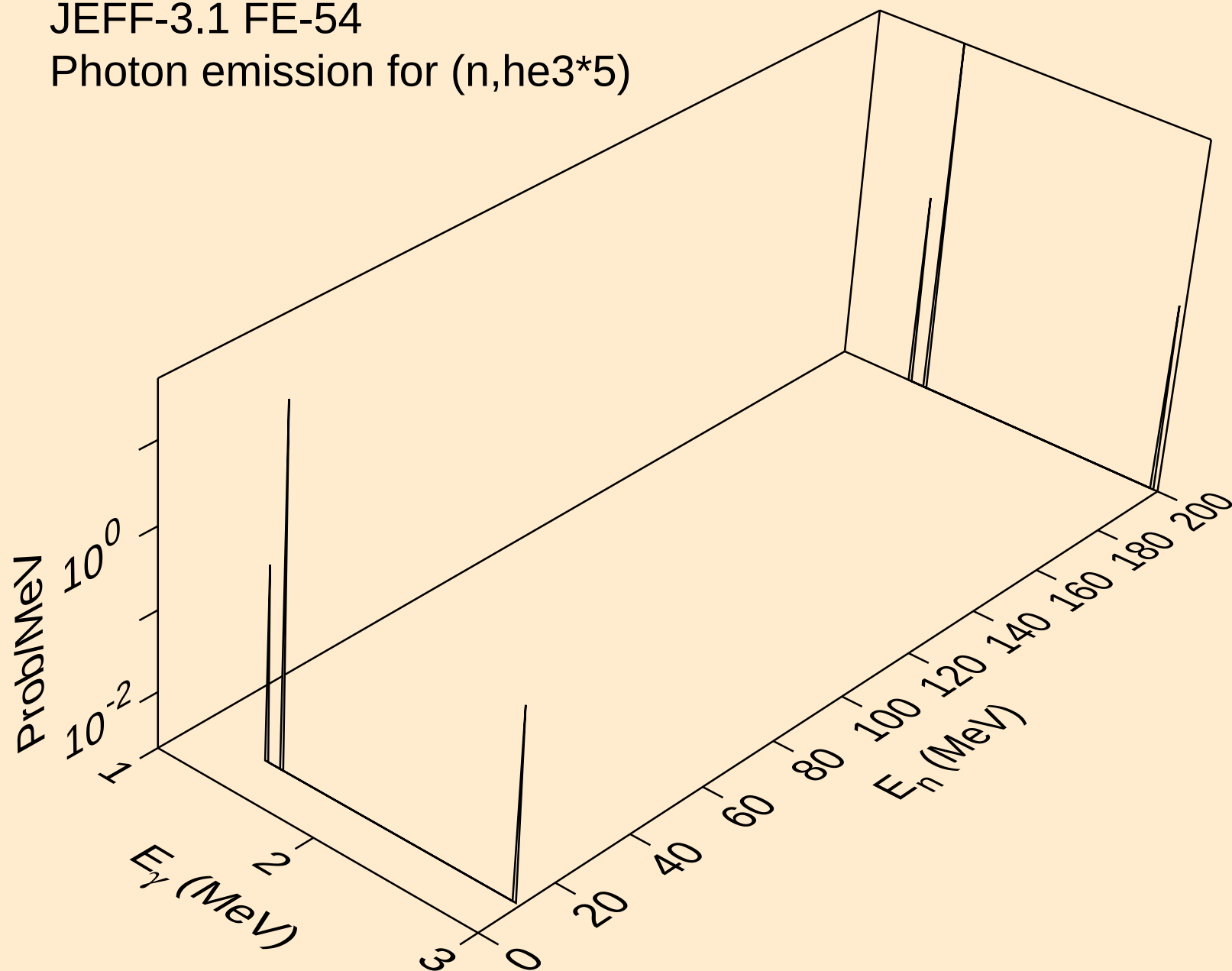
JEFF-3.1 FE-54

Photon emission for (n,he3*4)



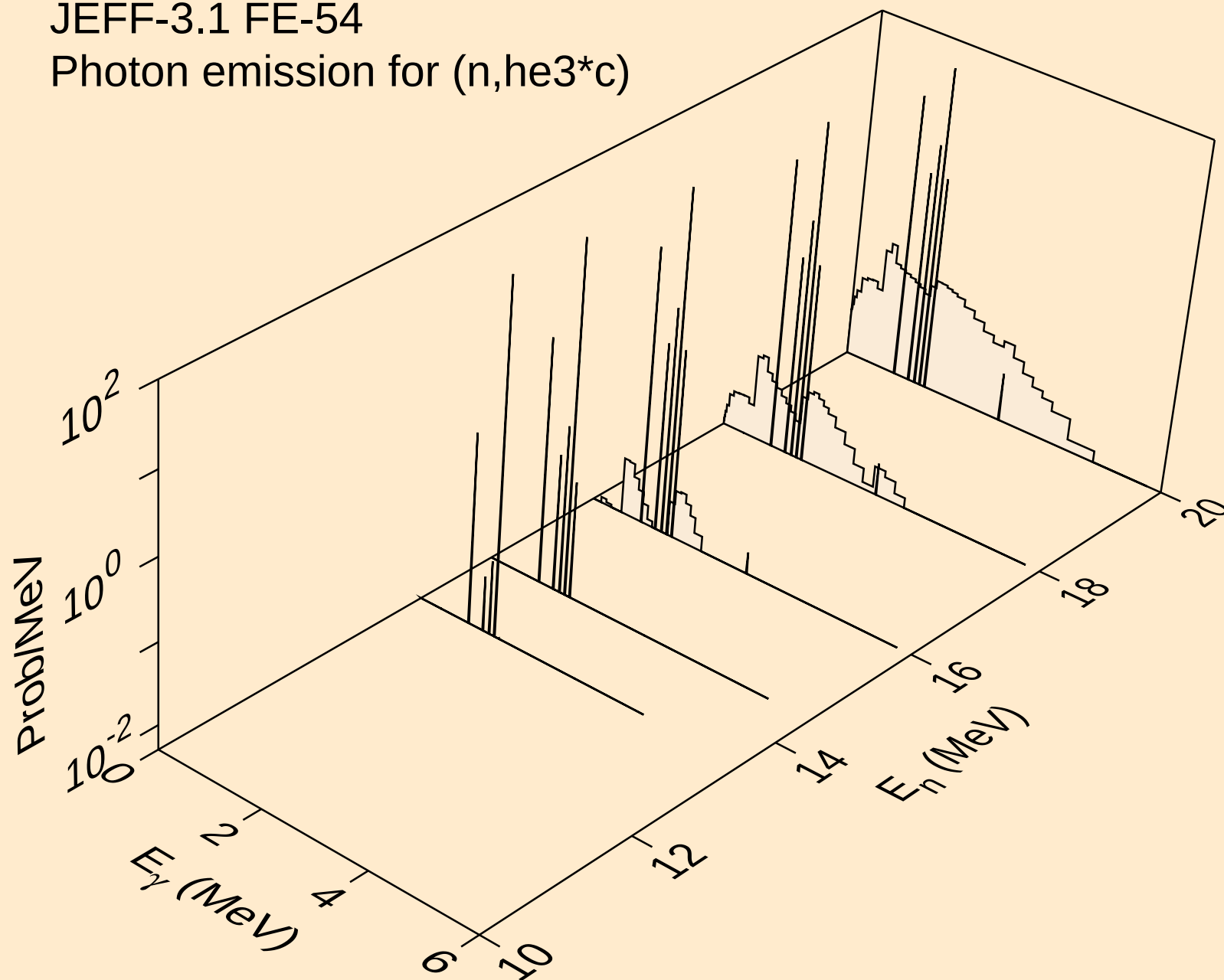
JEFF-3.1 FE-54

Photon emission for (n,he3*5)

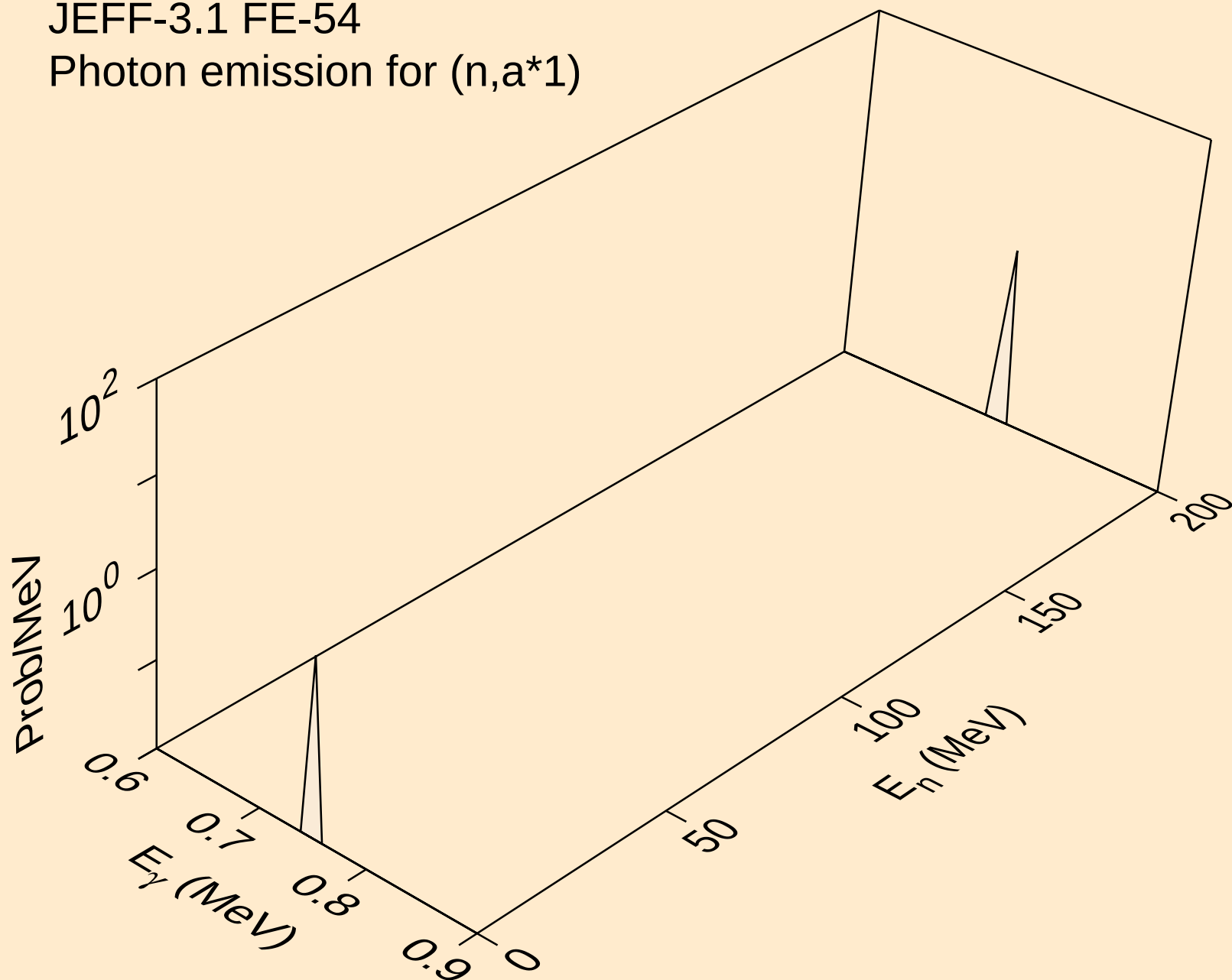


JEFF-3.1 FE-54

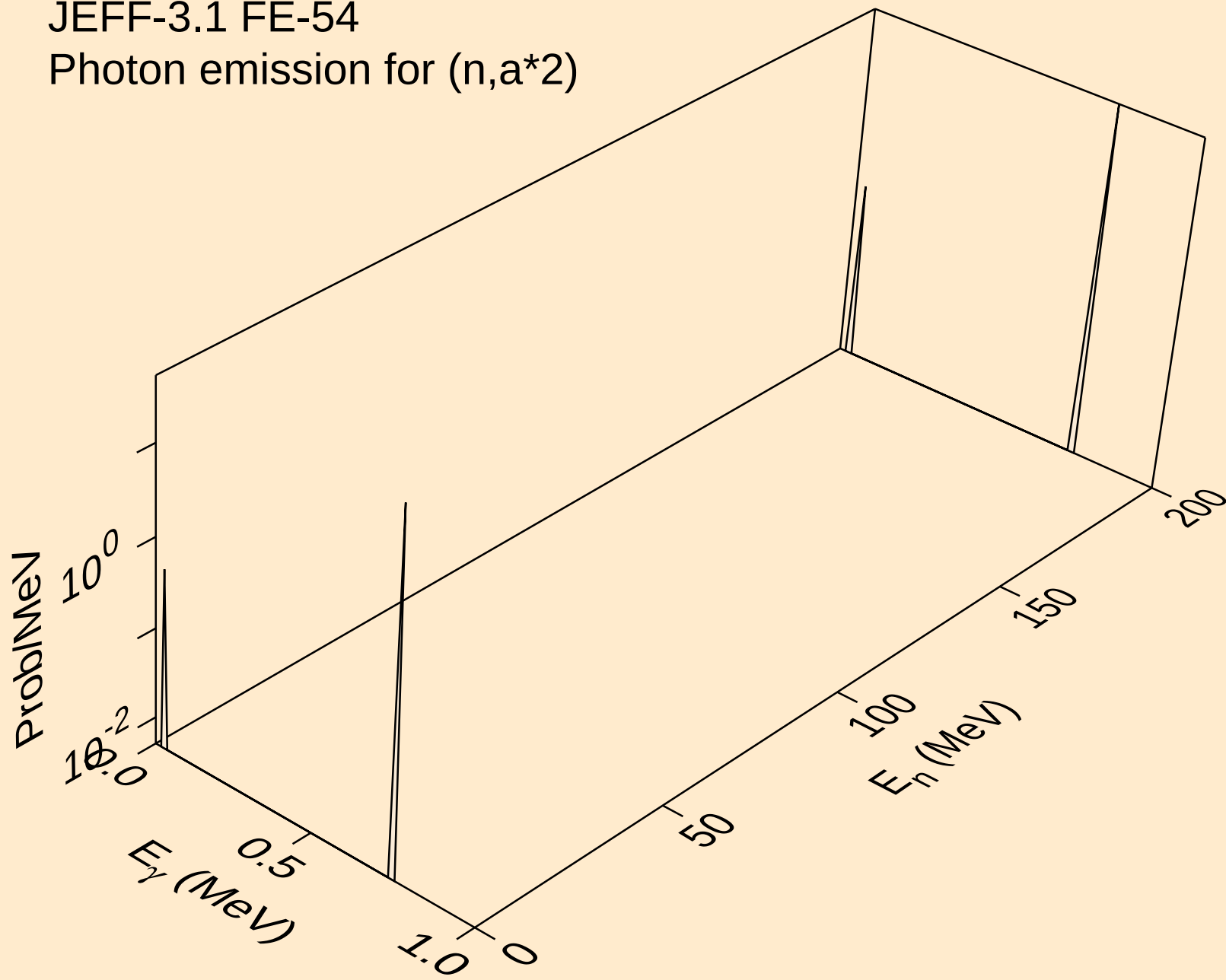
Photon emission for (n,he3*c)



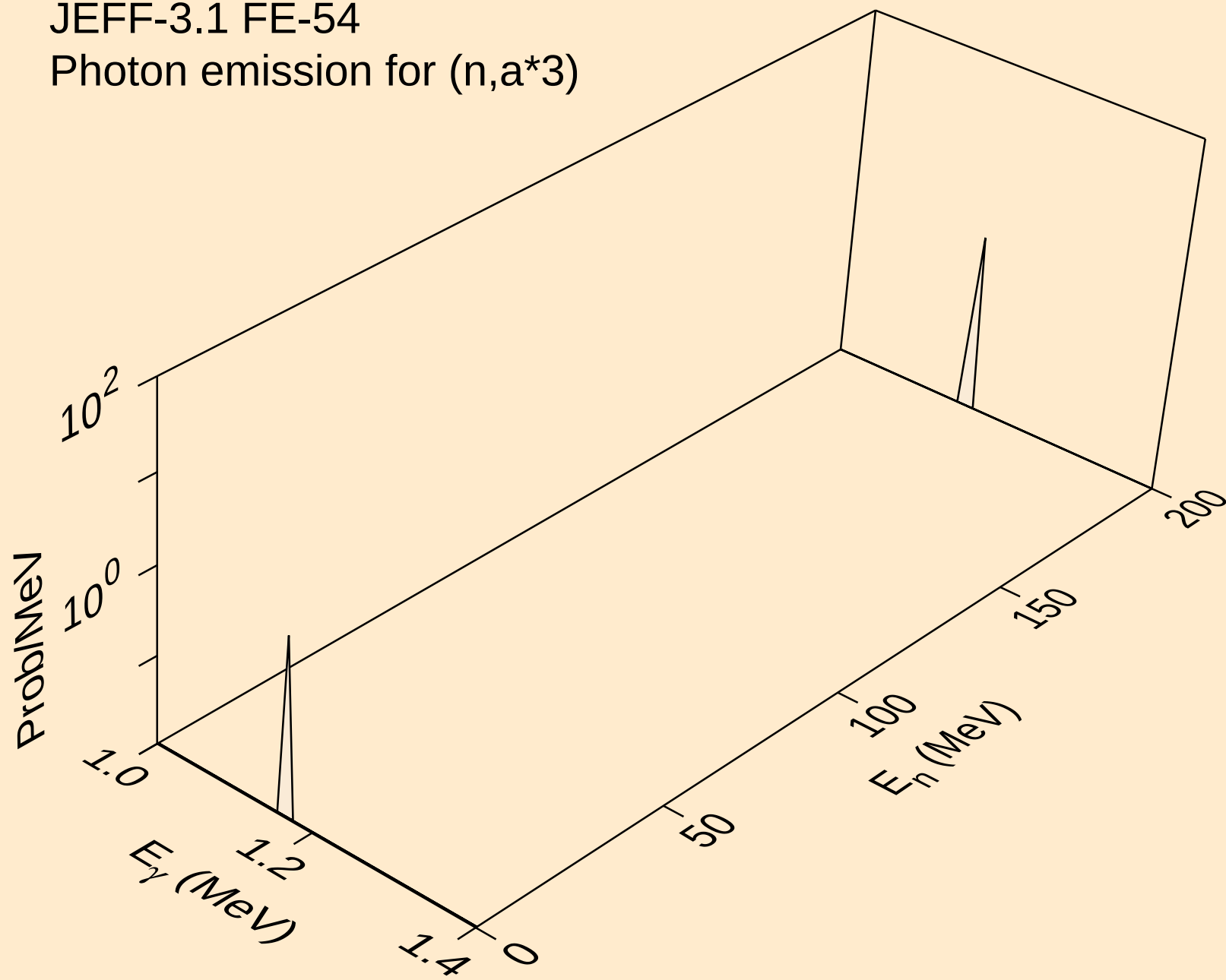
JEFF-3.1 FE-54
Photon emission for (n,a*1)



JEFF-3.1 FE-54
Photon emission for (n,a*2)

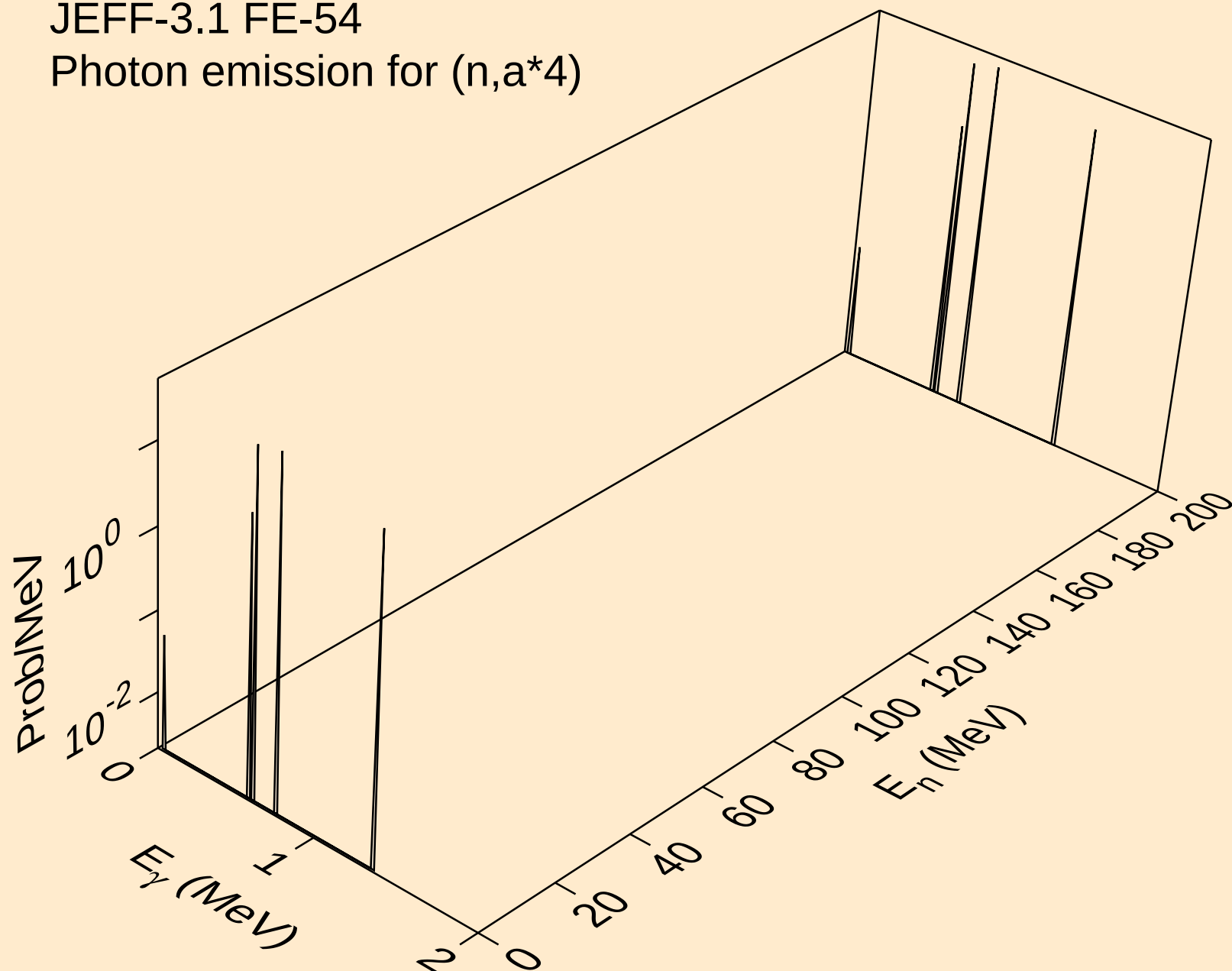


JEFF-3.1 FE-54
Photon emission for (n,a*3)



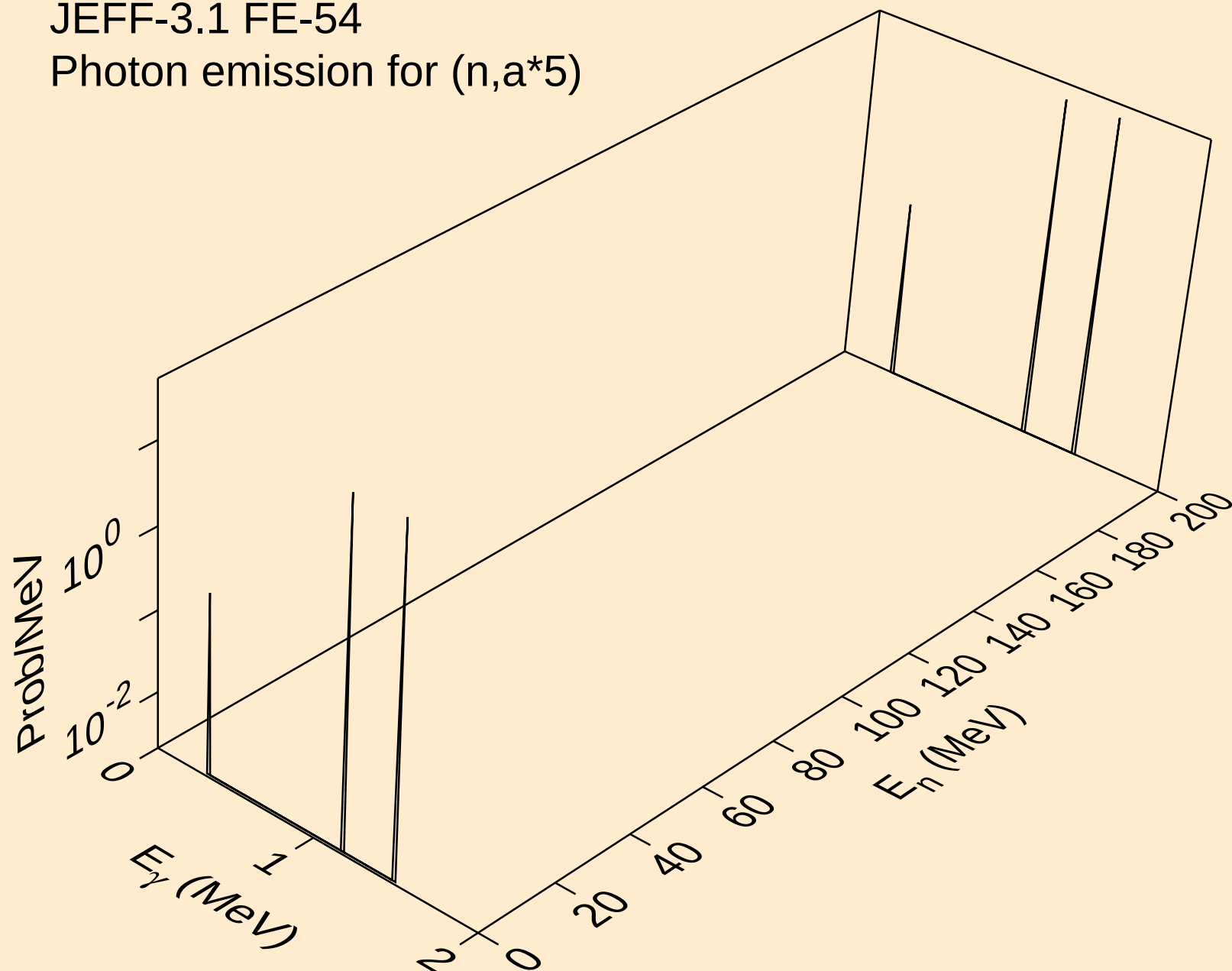
JEFF-3.1 FE-54

Photon emission for (n,a*4)



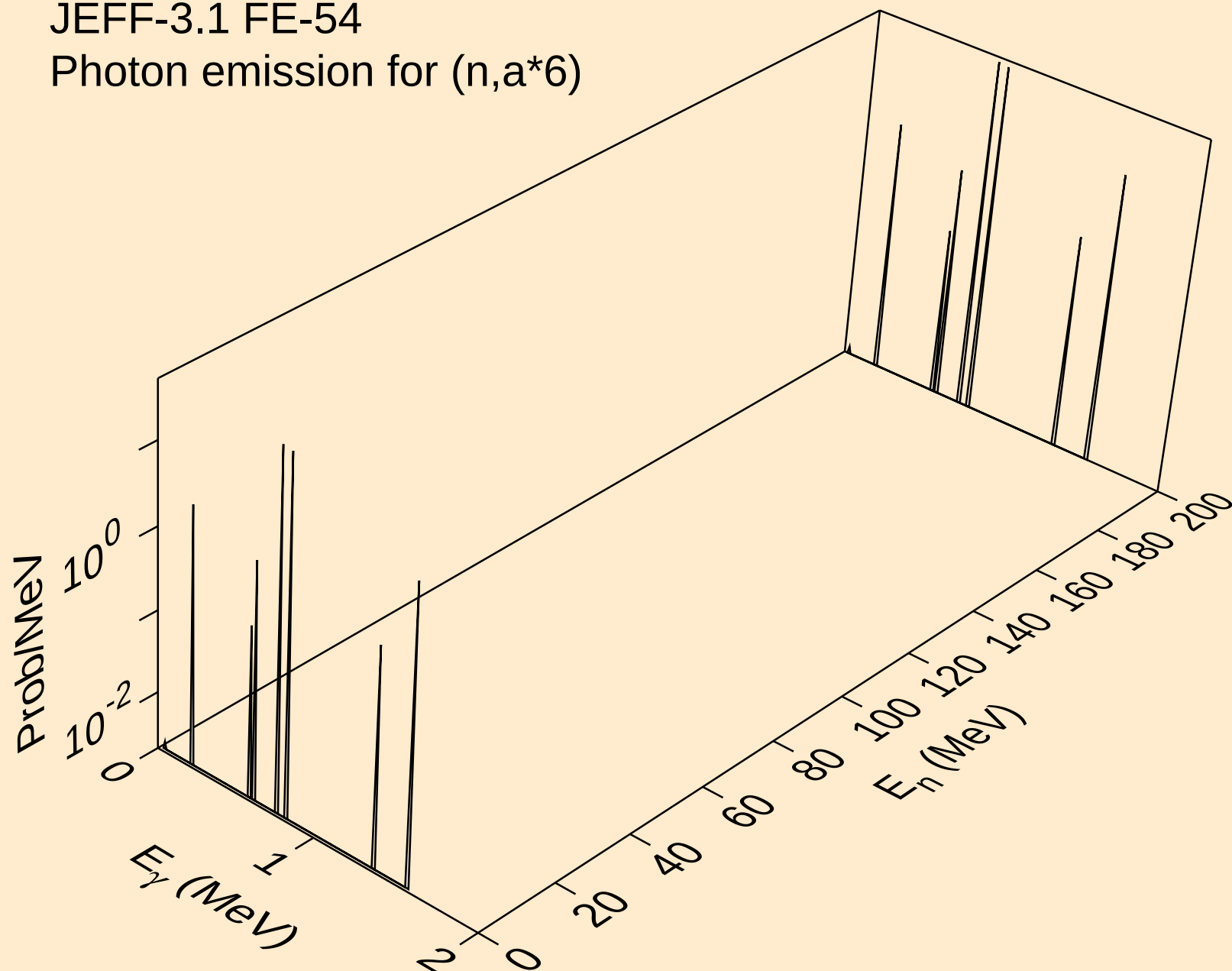
JEFF-3.1 FE-54

Photon emission for (n,a*5)



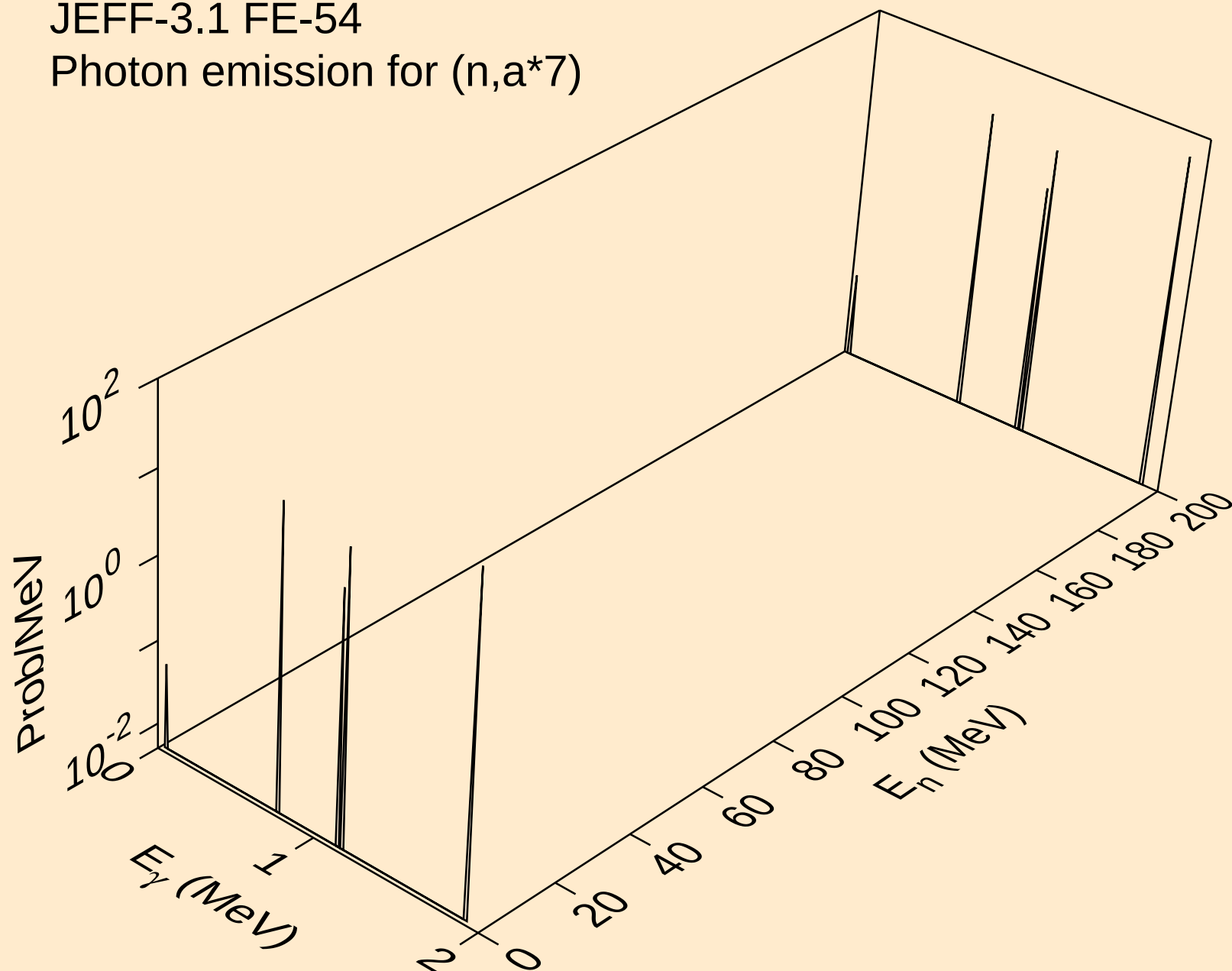
JEFF-3.1 FE-54

Photon emission for (n,a*6)



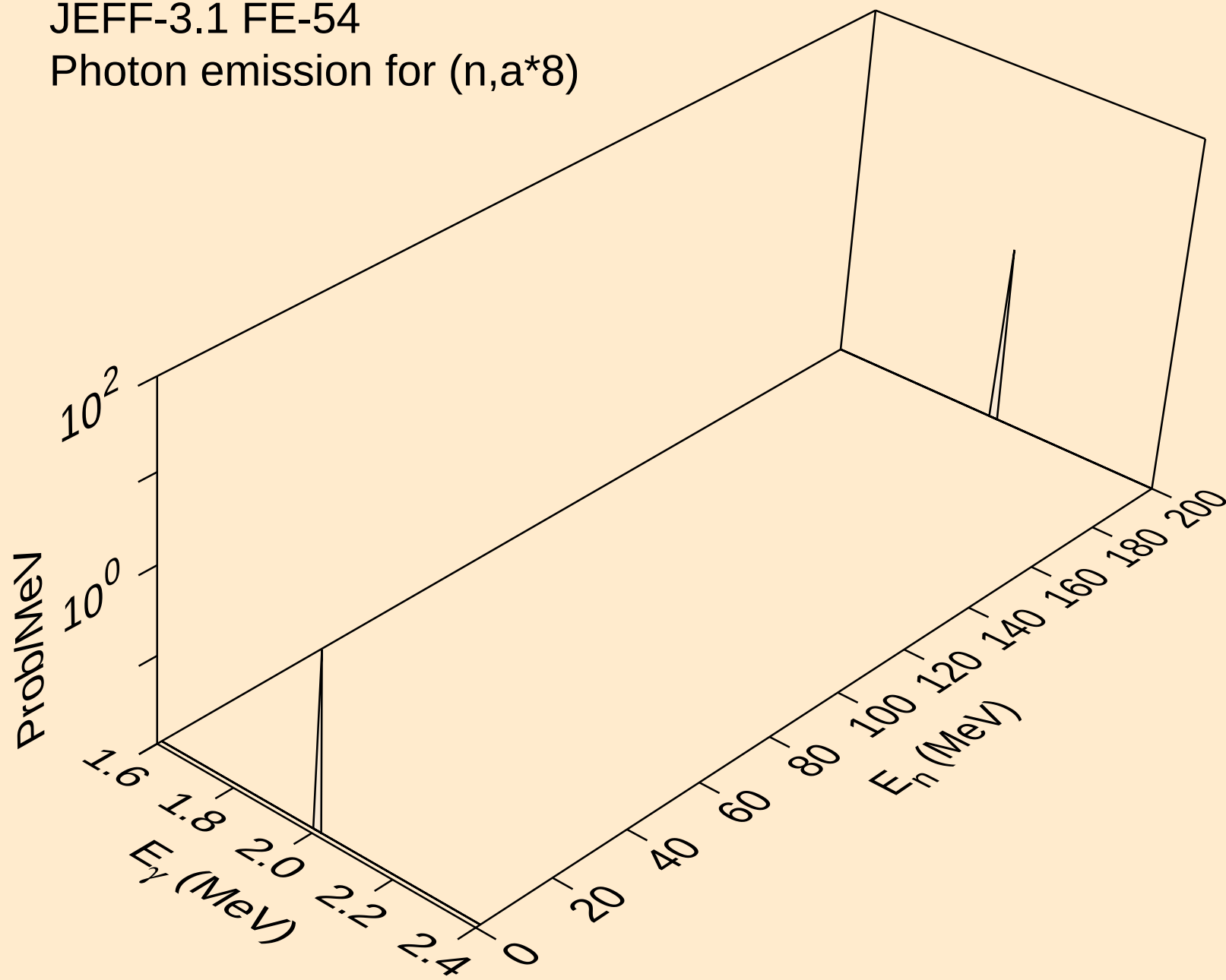
JEFF-3.1 FE-54

Photon emission for (n,a*7)



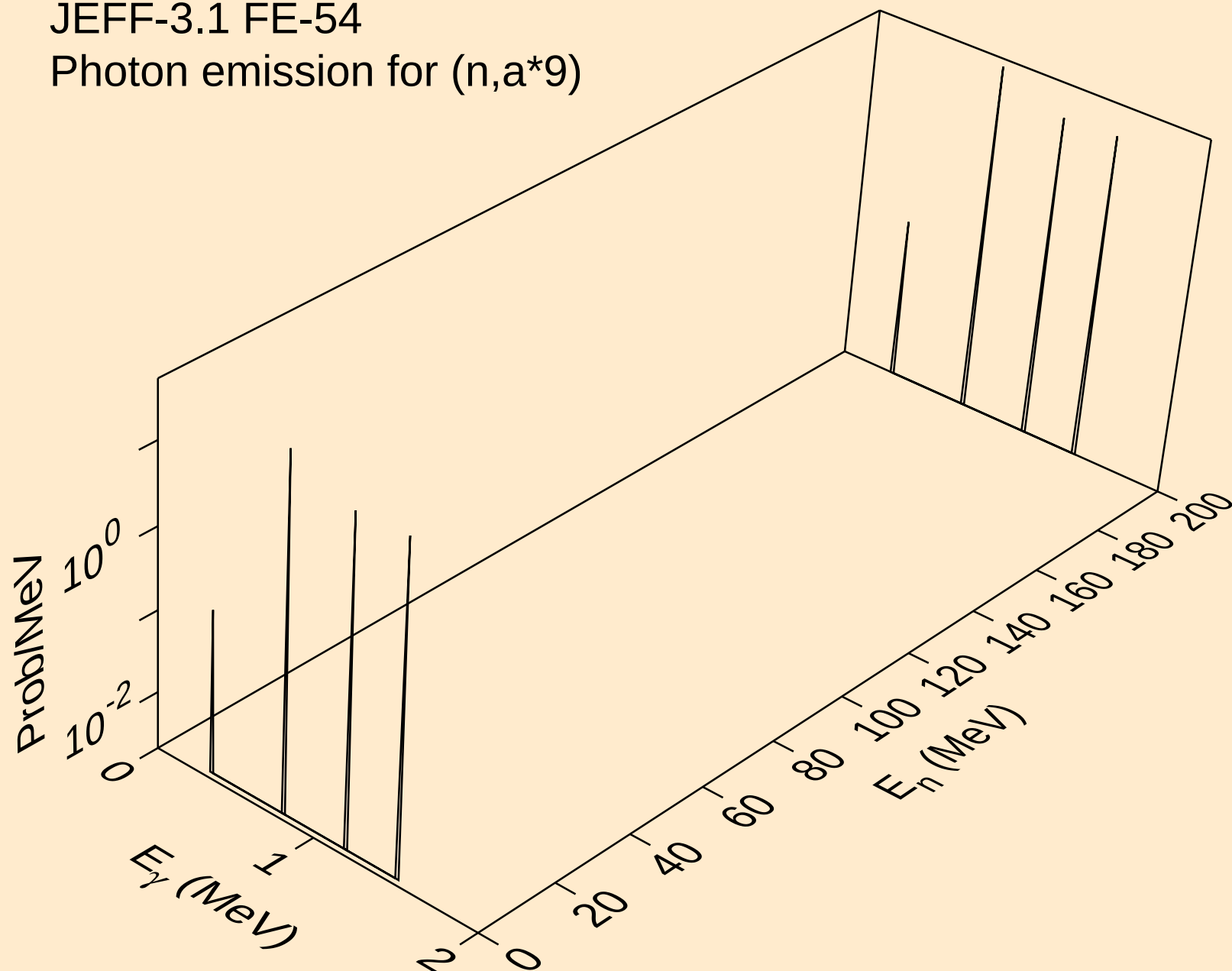
JEFF-3.1 FE-54

Photon emission for (n,a*8)



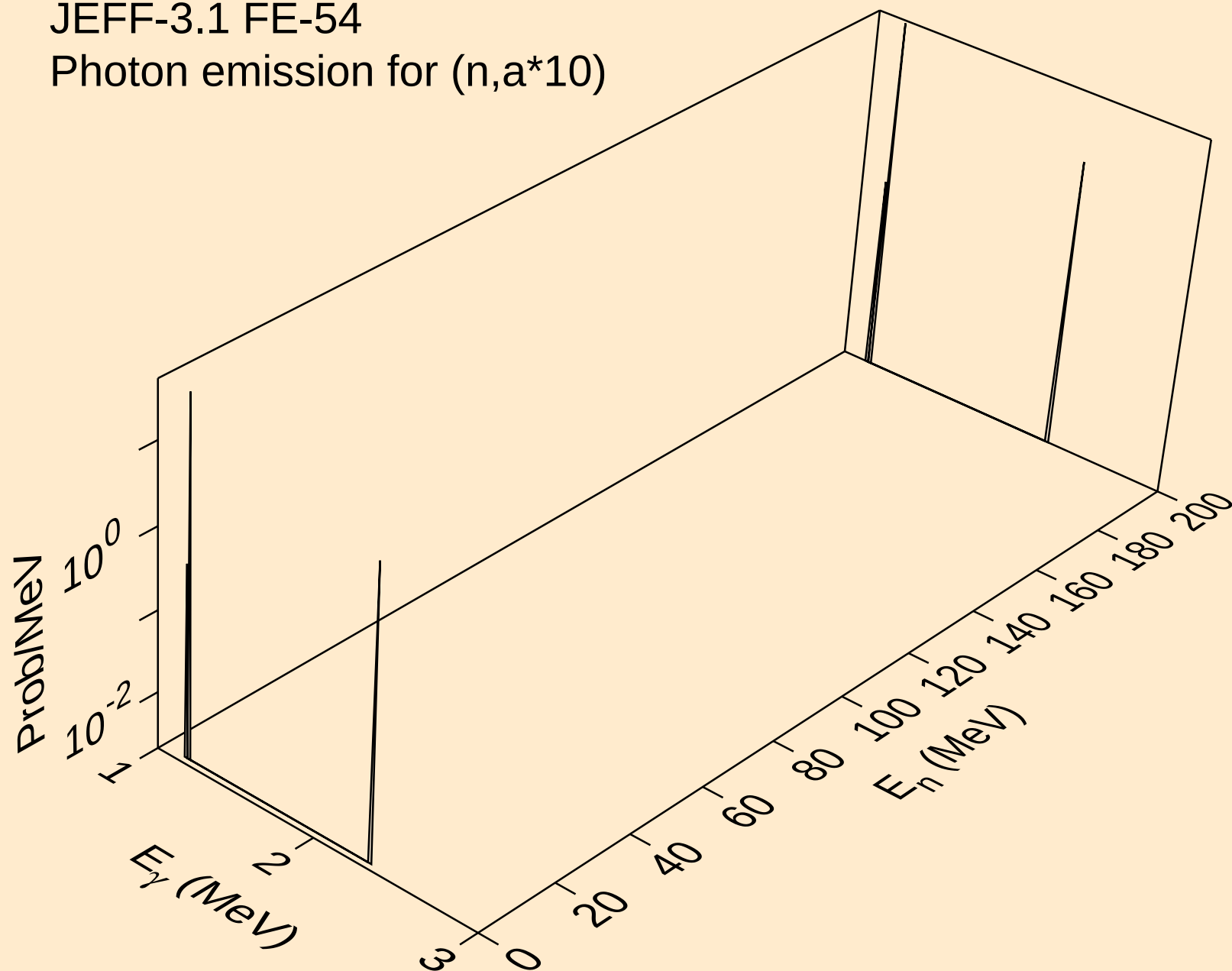
JEFF-3.1 FE-54

Photon emission for (n,a*9)

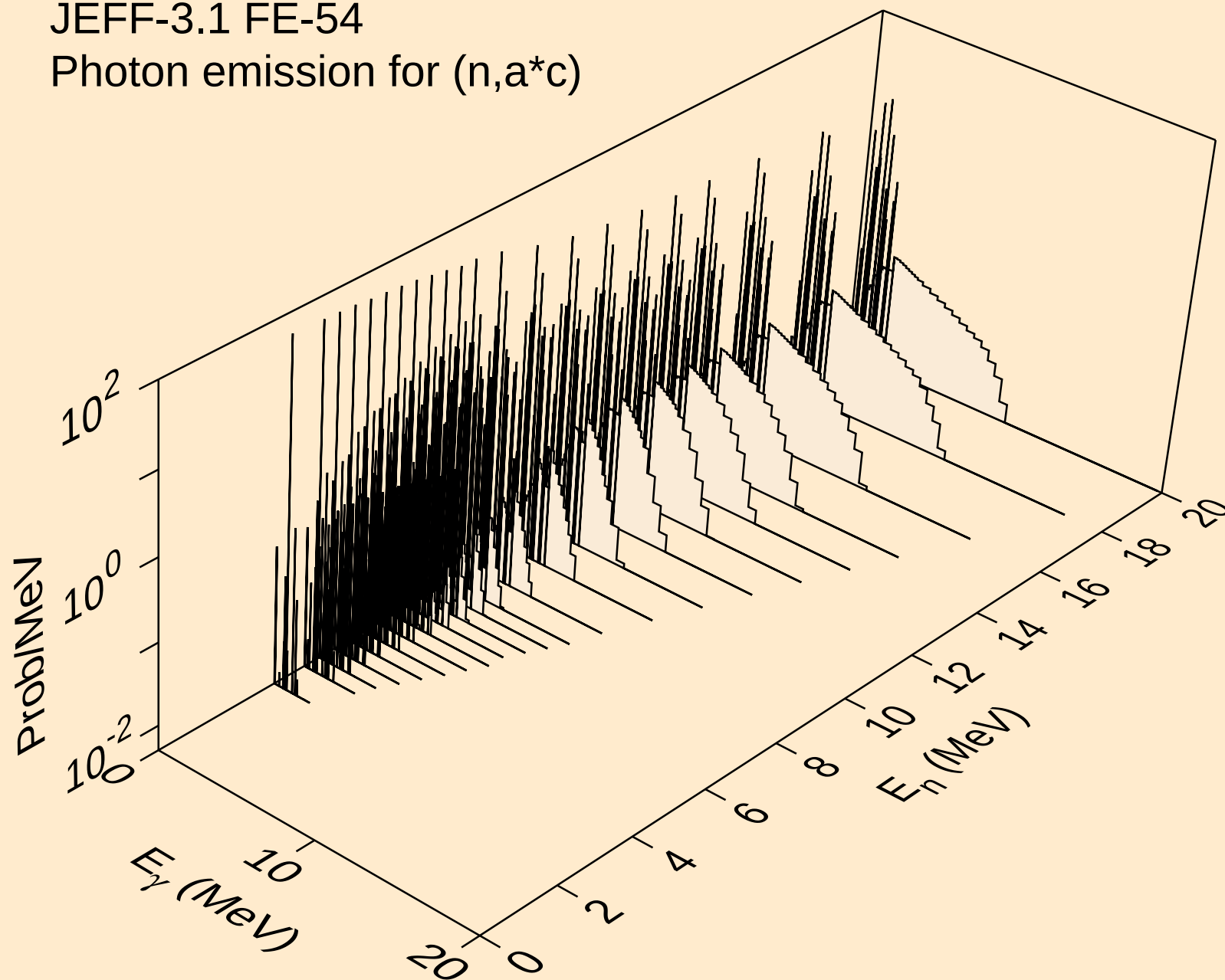


JEFF-3.1 FE-54

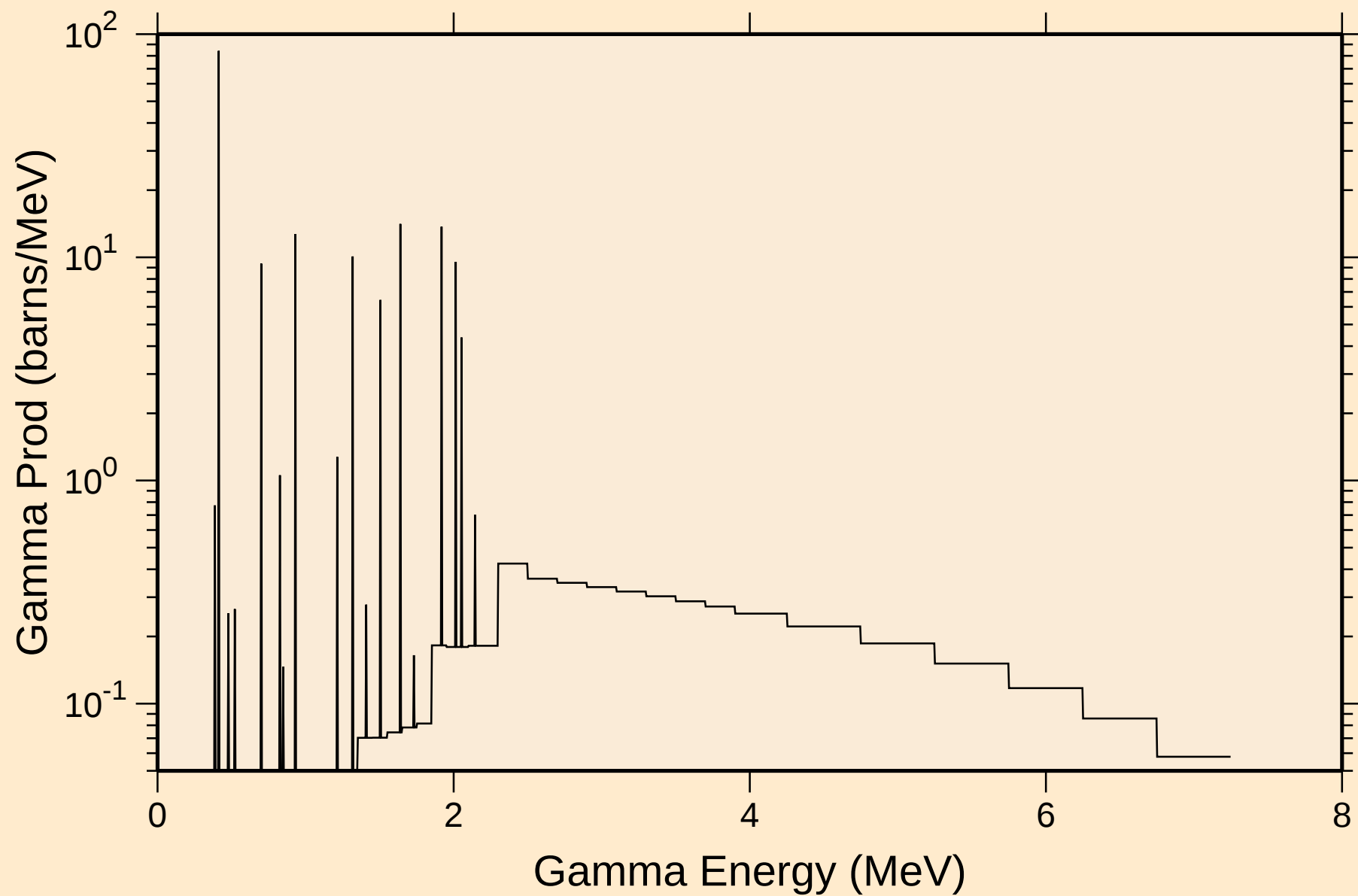
Photon emission for (n,a*10)



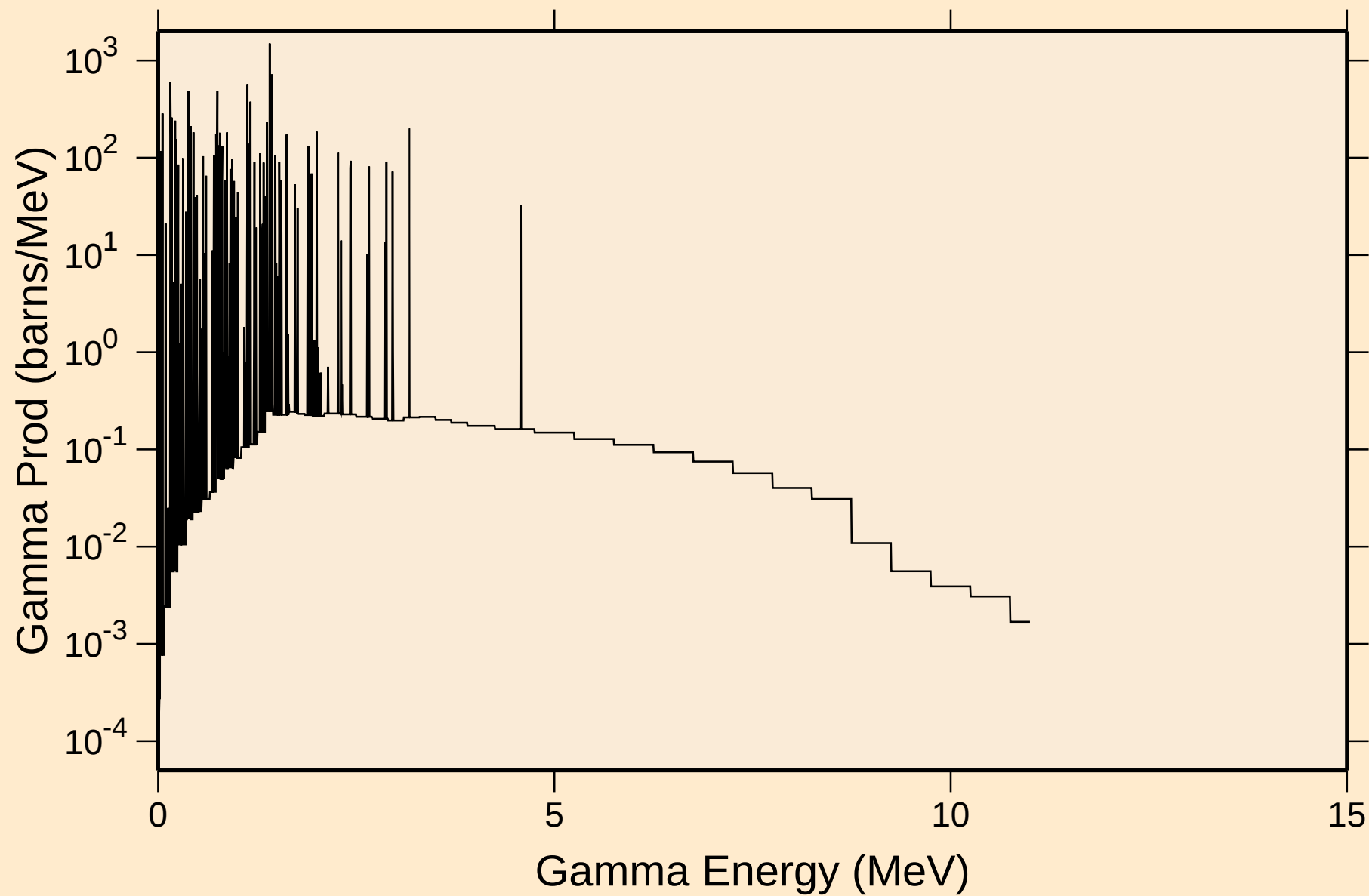
JEFF-3.1 FE-54
Photon emission for (n,a*c)



JEFF-3.1 FE-54
thermal capture photon spectrum

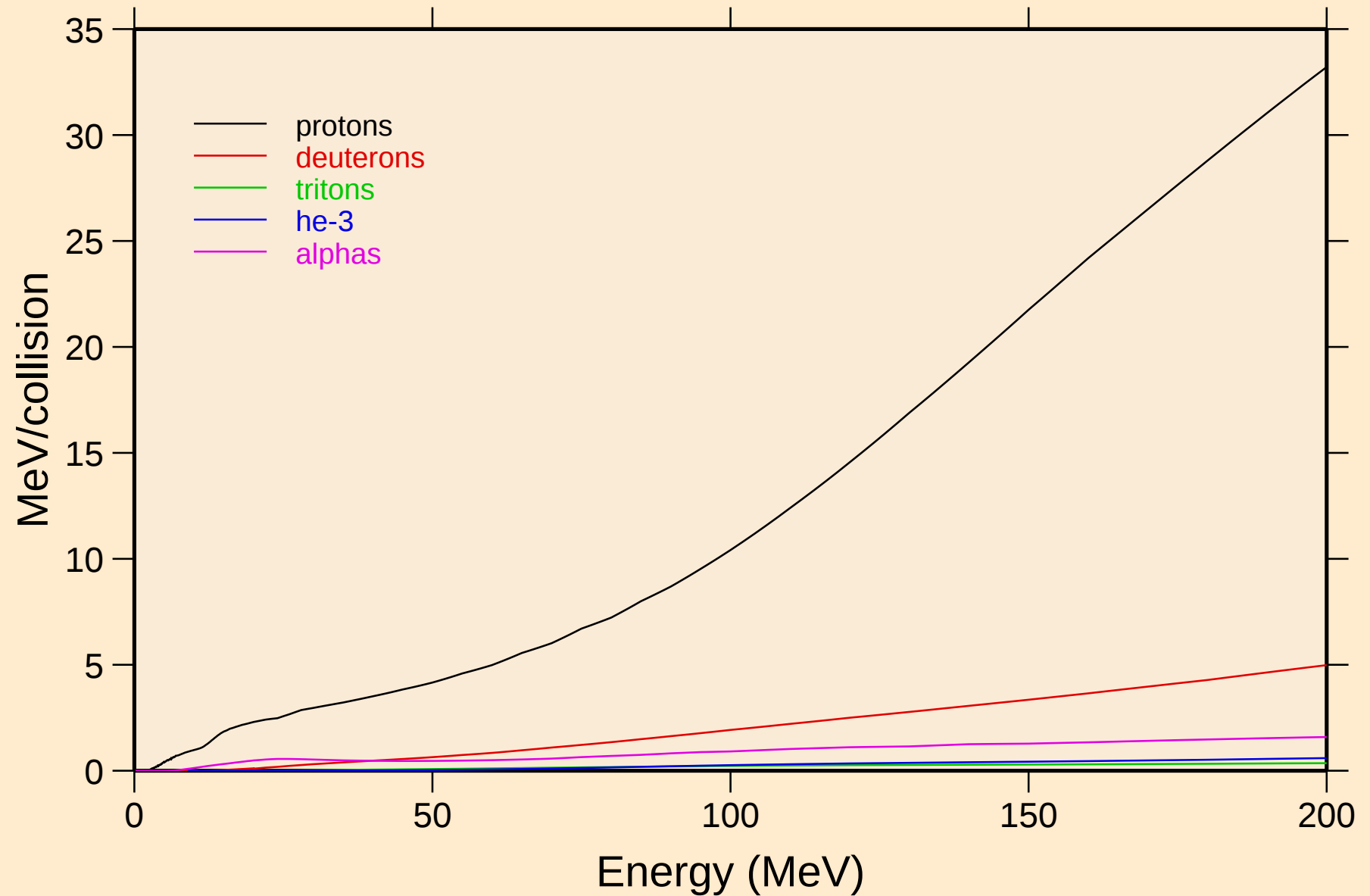


JEFF-3.1 FE-54
14 MeV photon spectrum

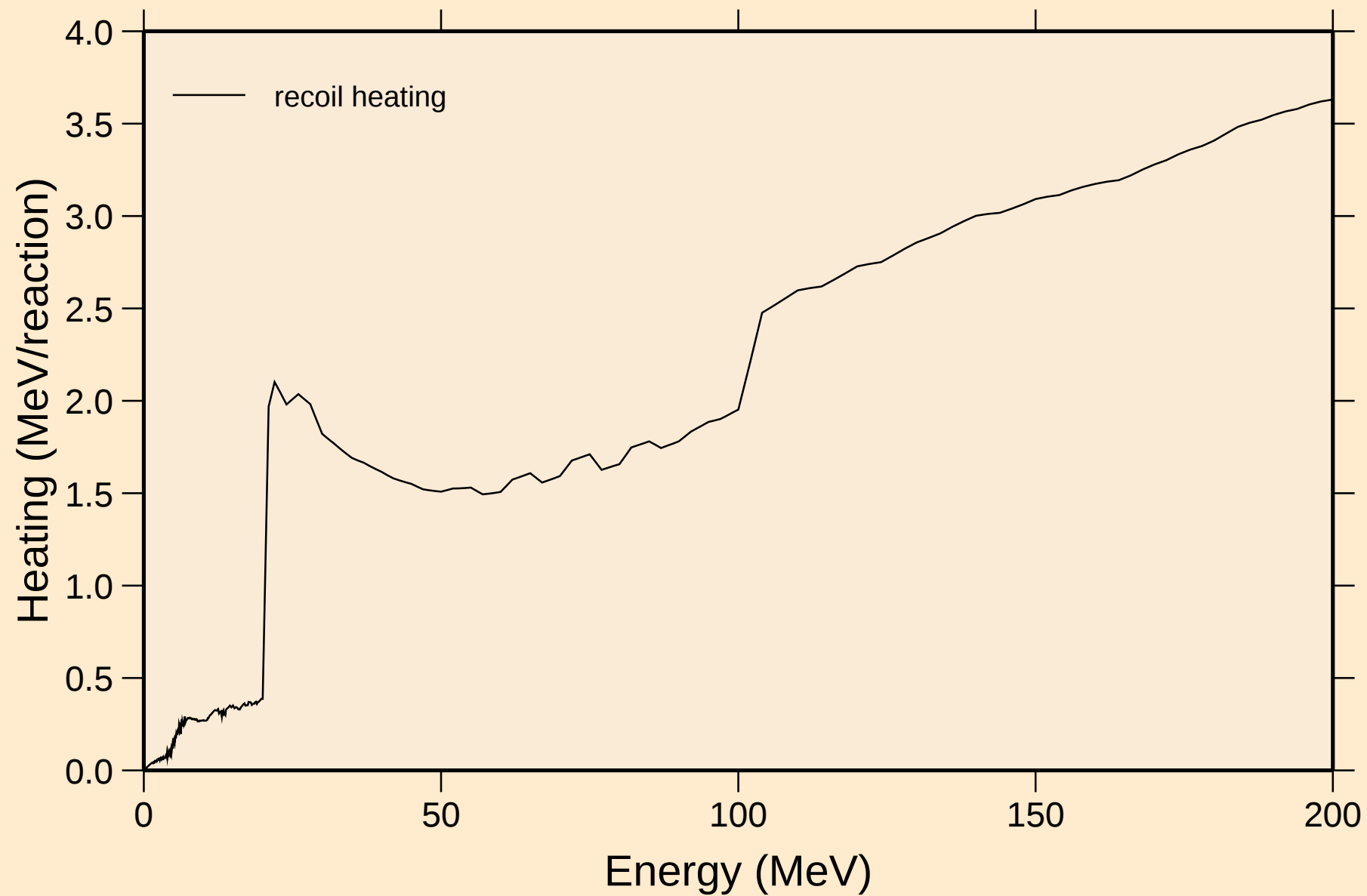


JEFF-3.1 FE-54

Particle heating contributions

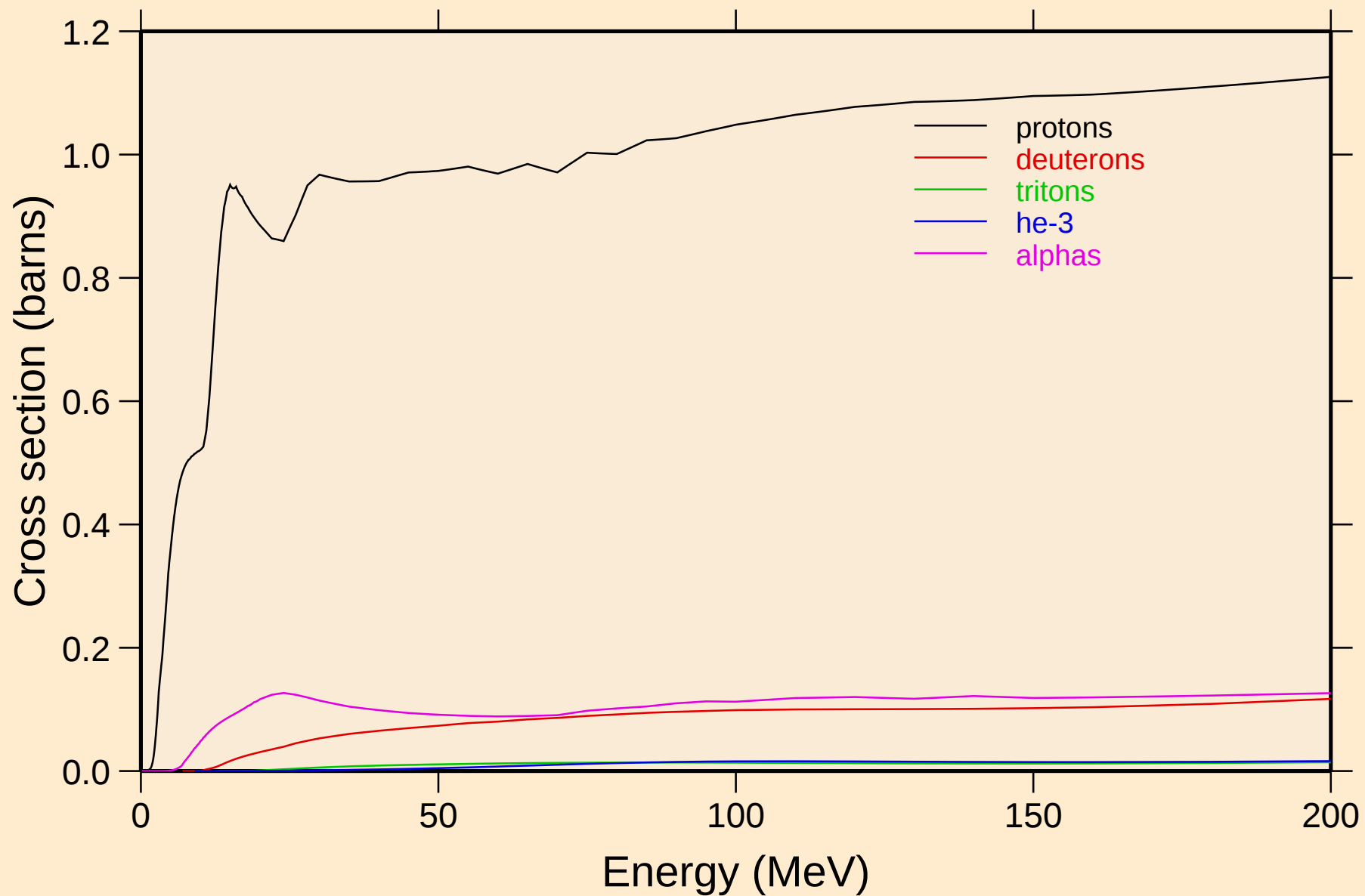


JEFF-3.1 FE-54 Recoil Heating

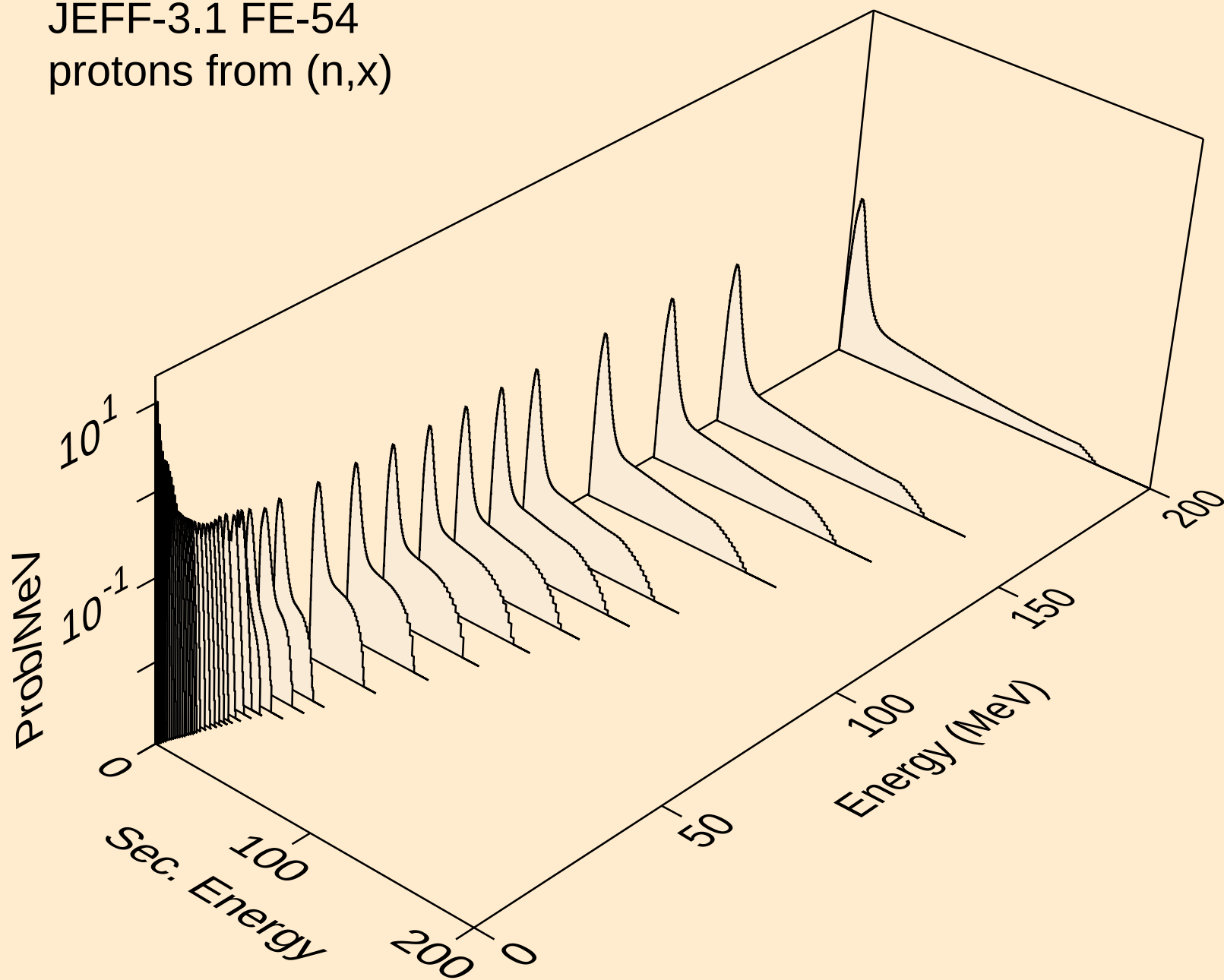


JEFF-3.1 FE-54

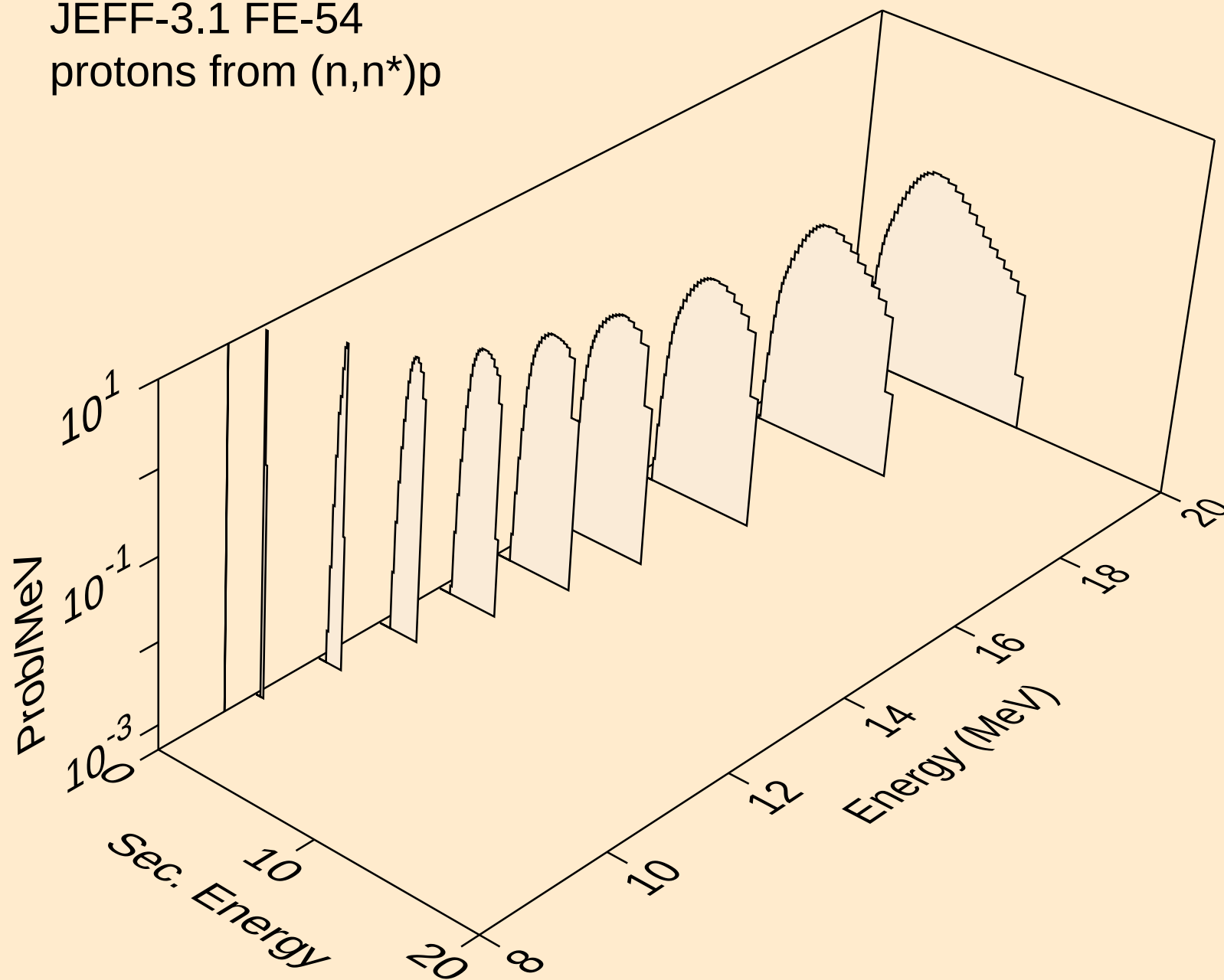
Particle production cross sections



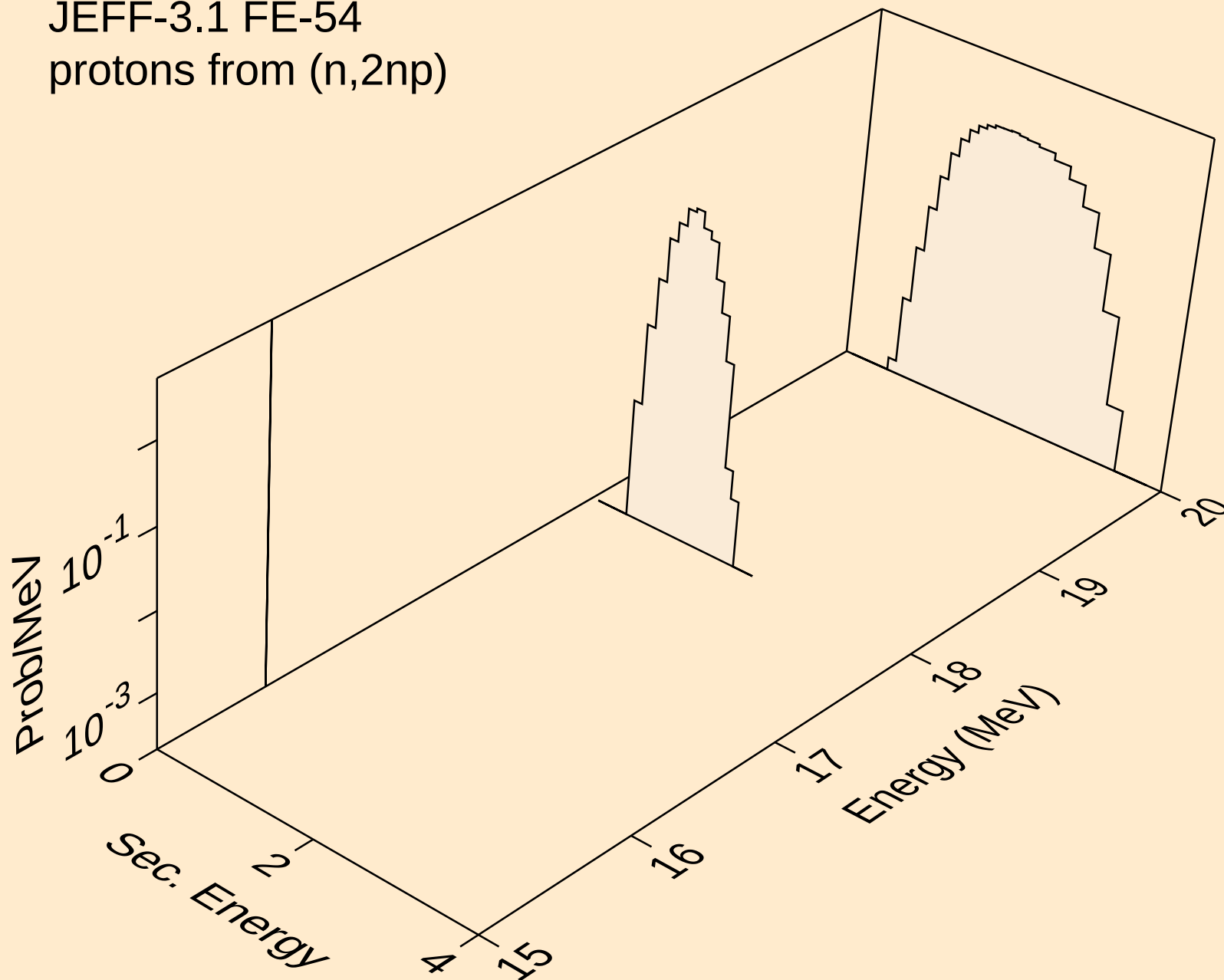
JEFF-3.1 FE-54
protons from (n,x)



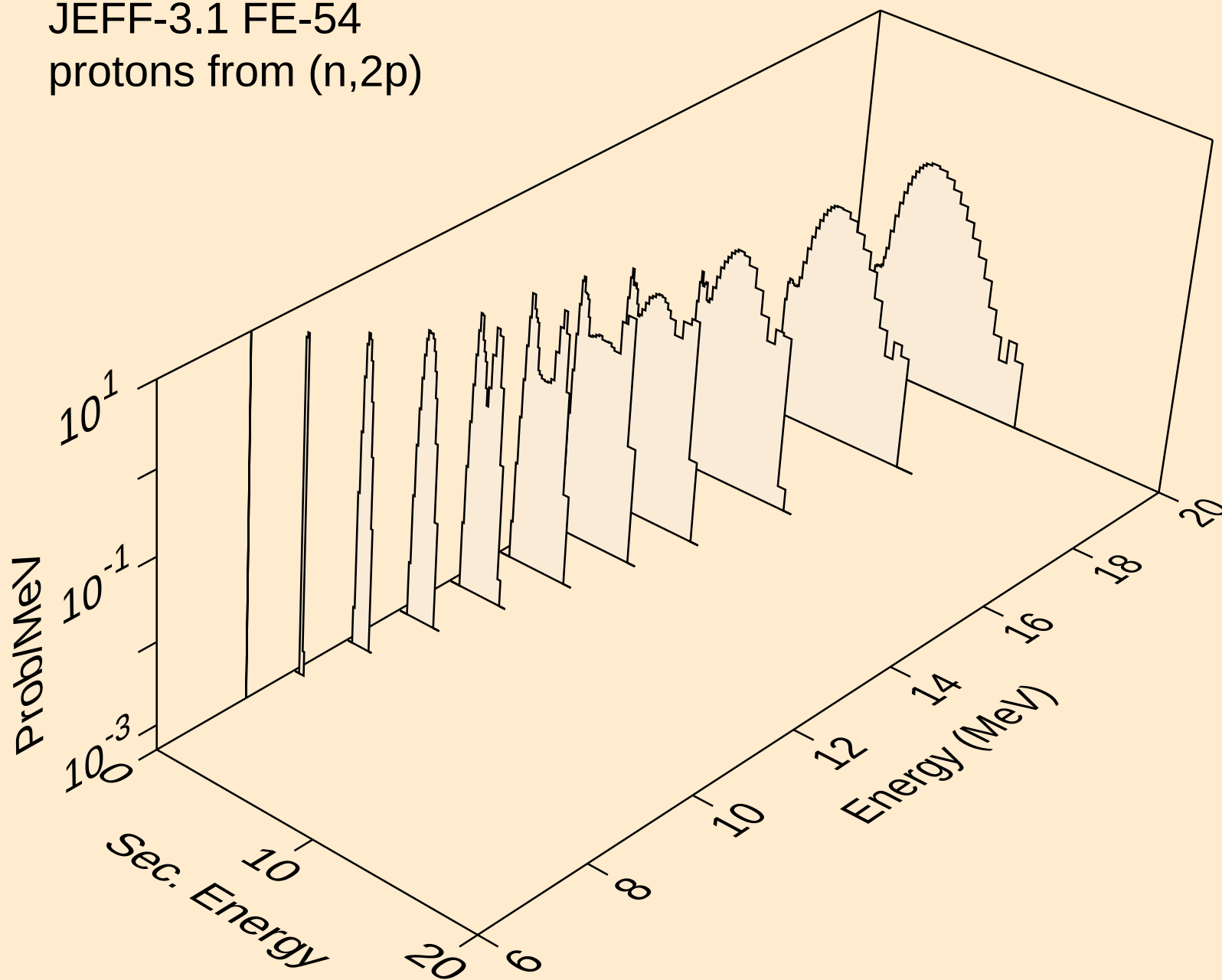
JEFF-3.1 FE-54
protons from (n,n*)p



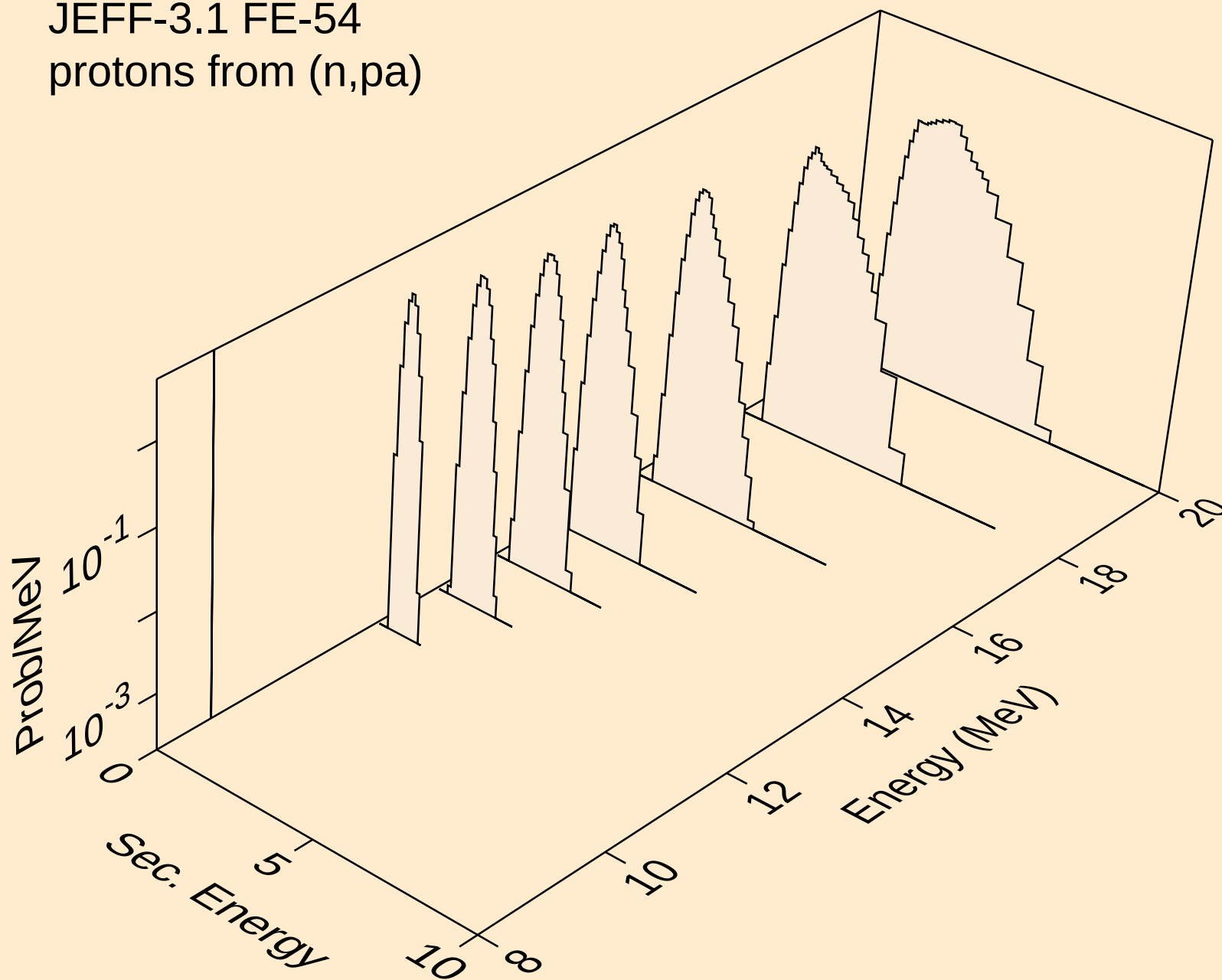
JEFF-3.1 FE-54
protons from (n,2np)



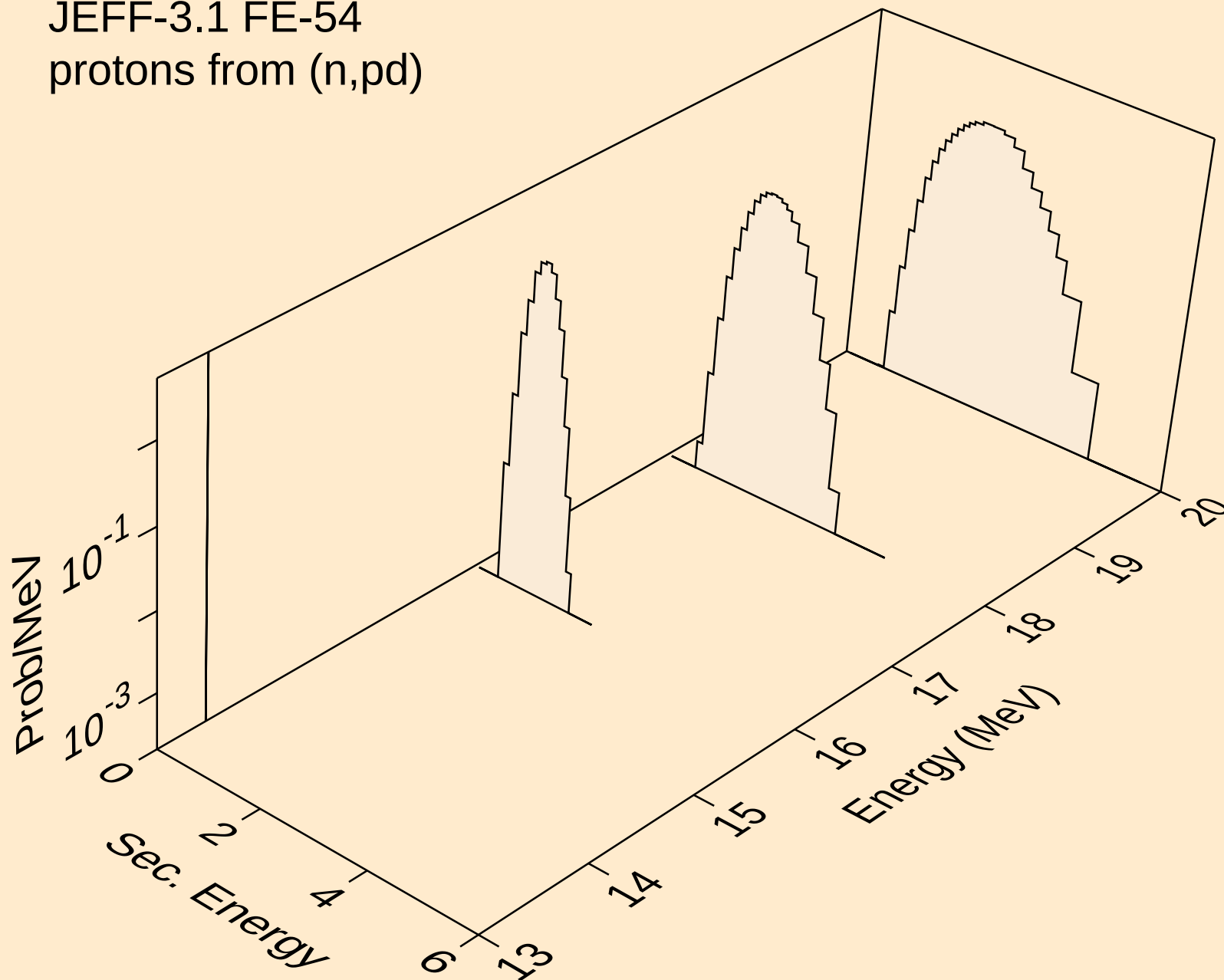
JEFF-3.1 FE-54
protons from (n,2p)



JEFF-3.1 FE-54
protons from (n,p)

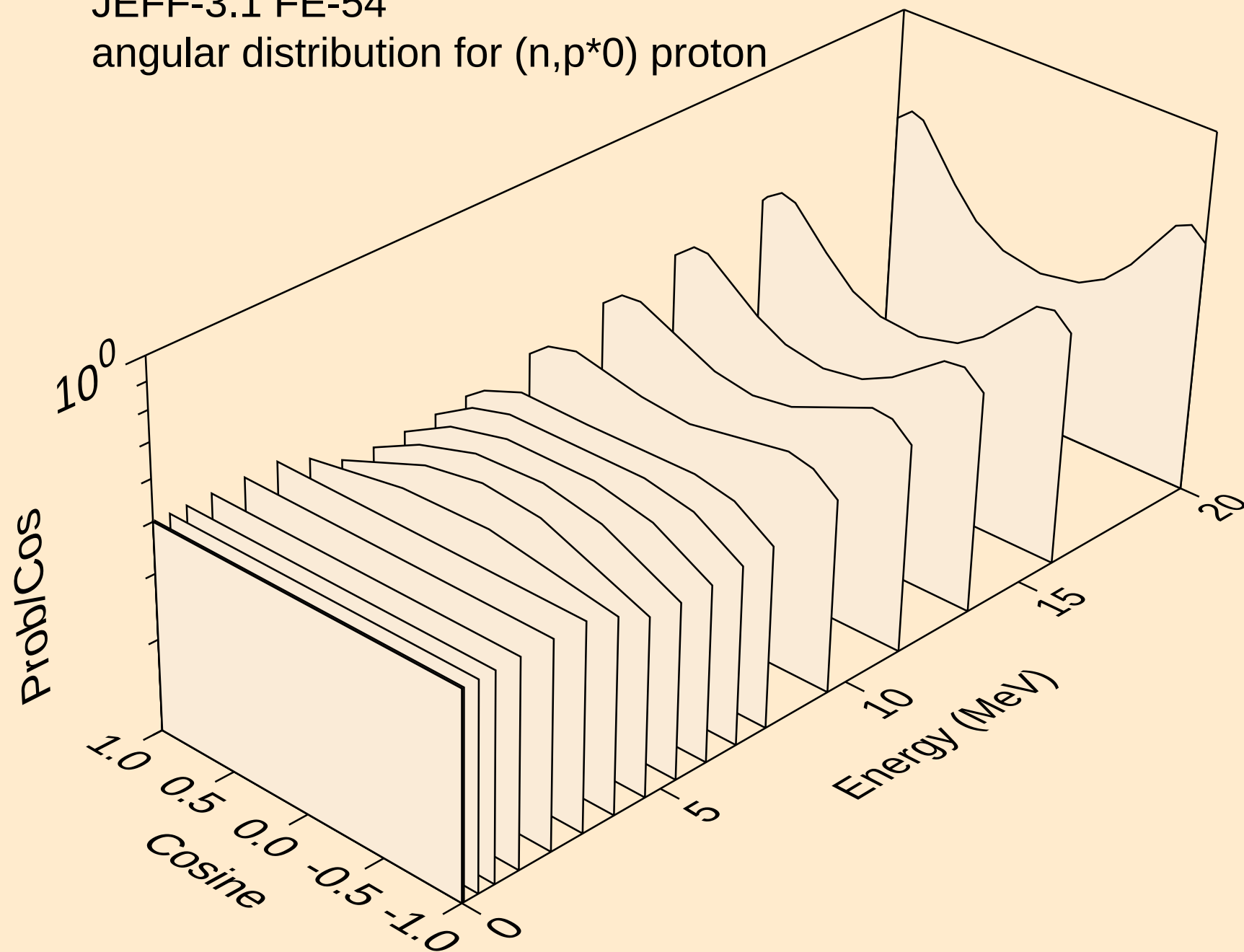


JEFF-3.1 FE-54
protons from (n,pd)



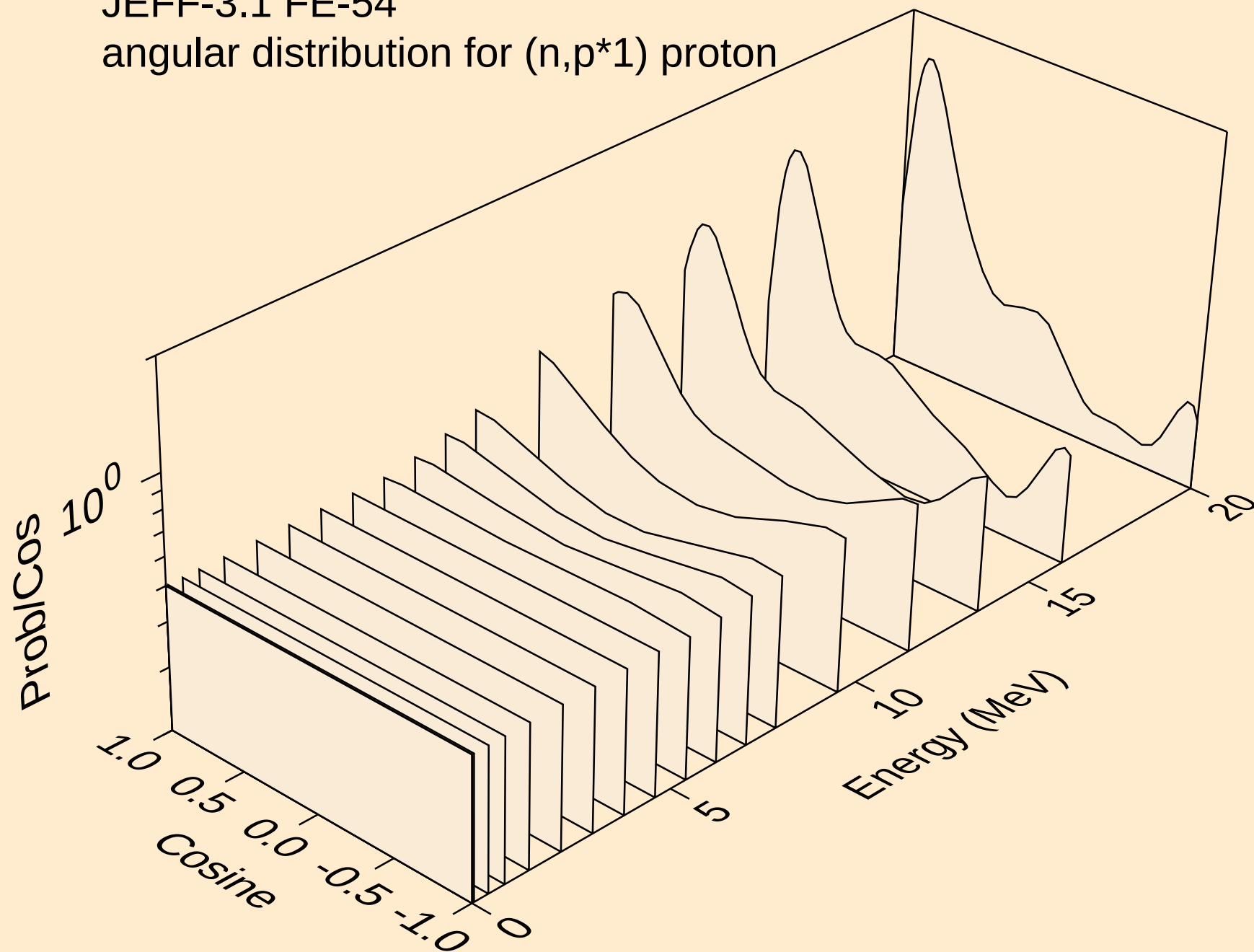
JEFF-3.1 FE-54

angular distribution for (n,p*0) proton



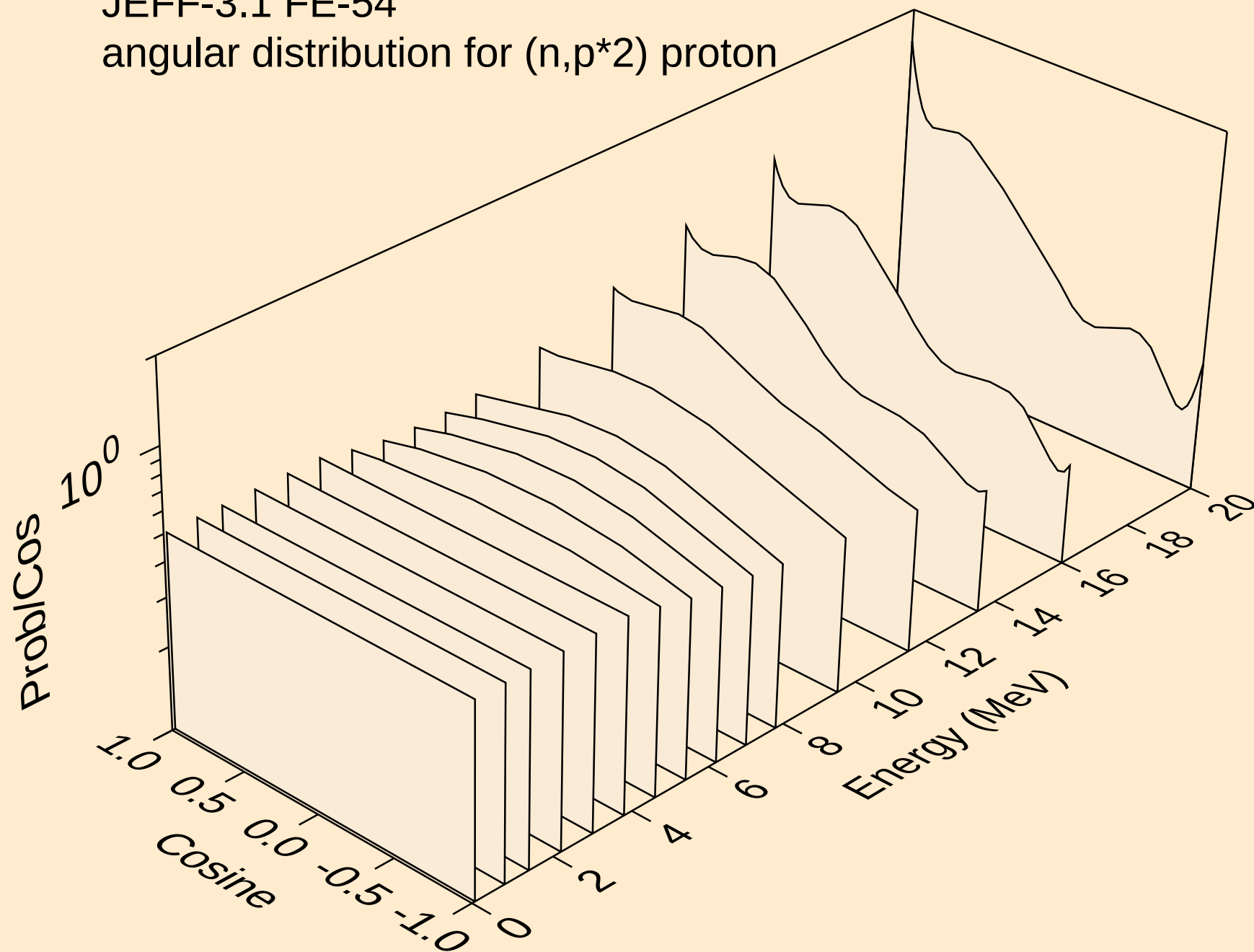
JEFF-3.1 FE-54

angular distribution for (n,p*1) proton



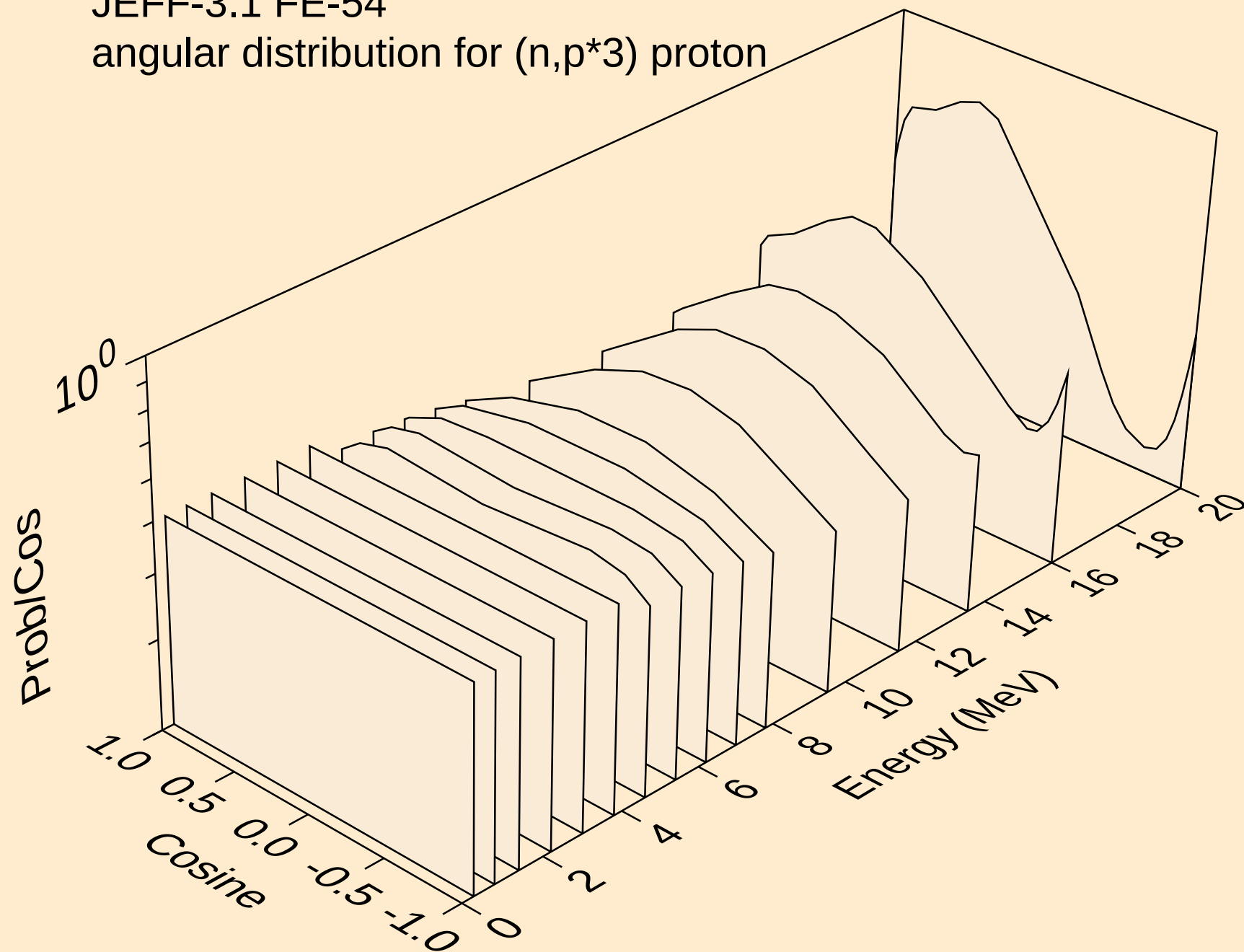
JEFF-3.1 FE-54

angular distribution for (n,p*2) proton



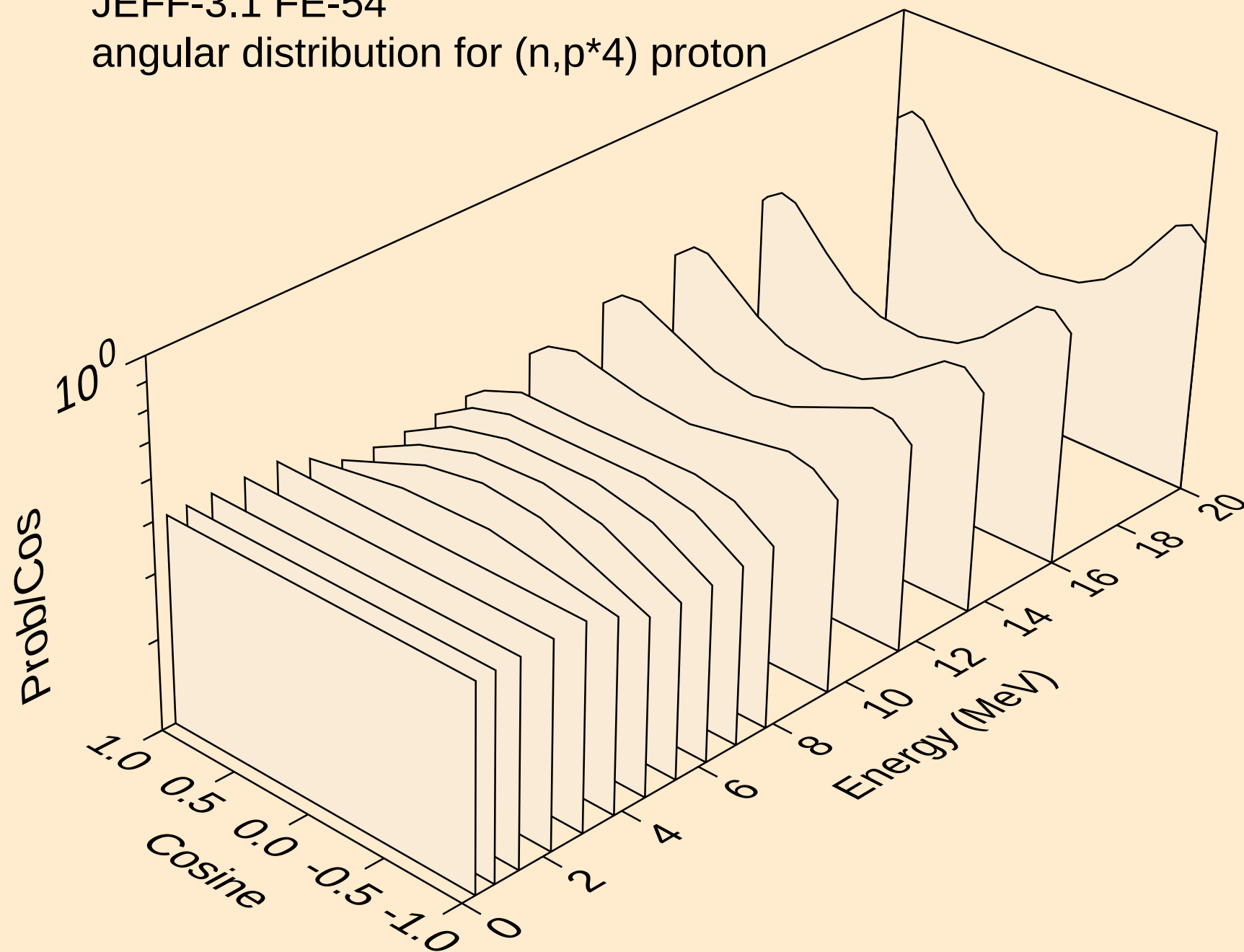
JEFF-3.1 FE-54

angular distribution for (n,p*3) proton



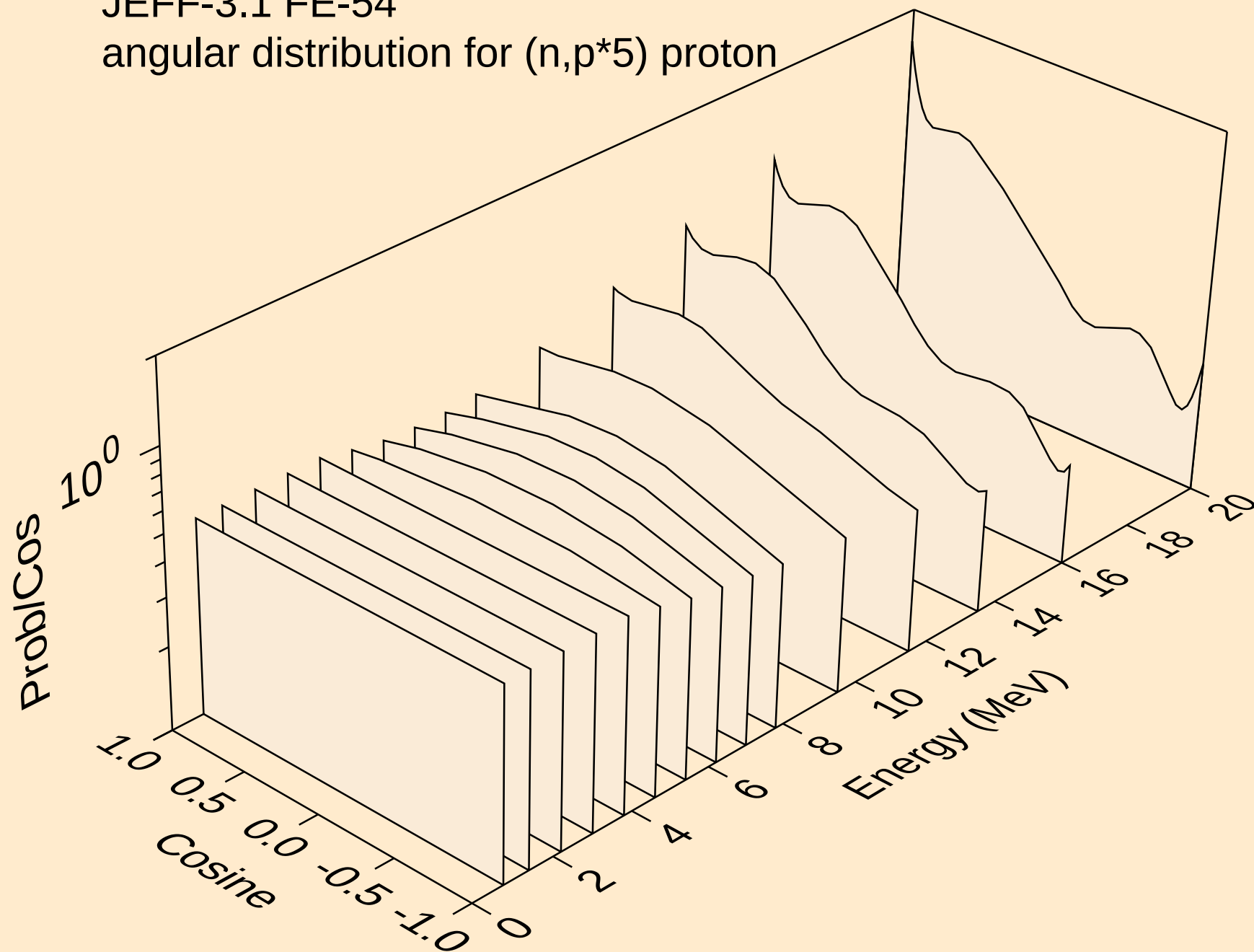
JEFF-3.1 FE-54

angular distribution for (n,p*4) proton



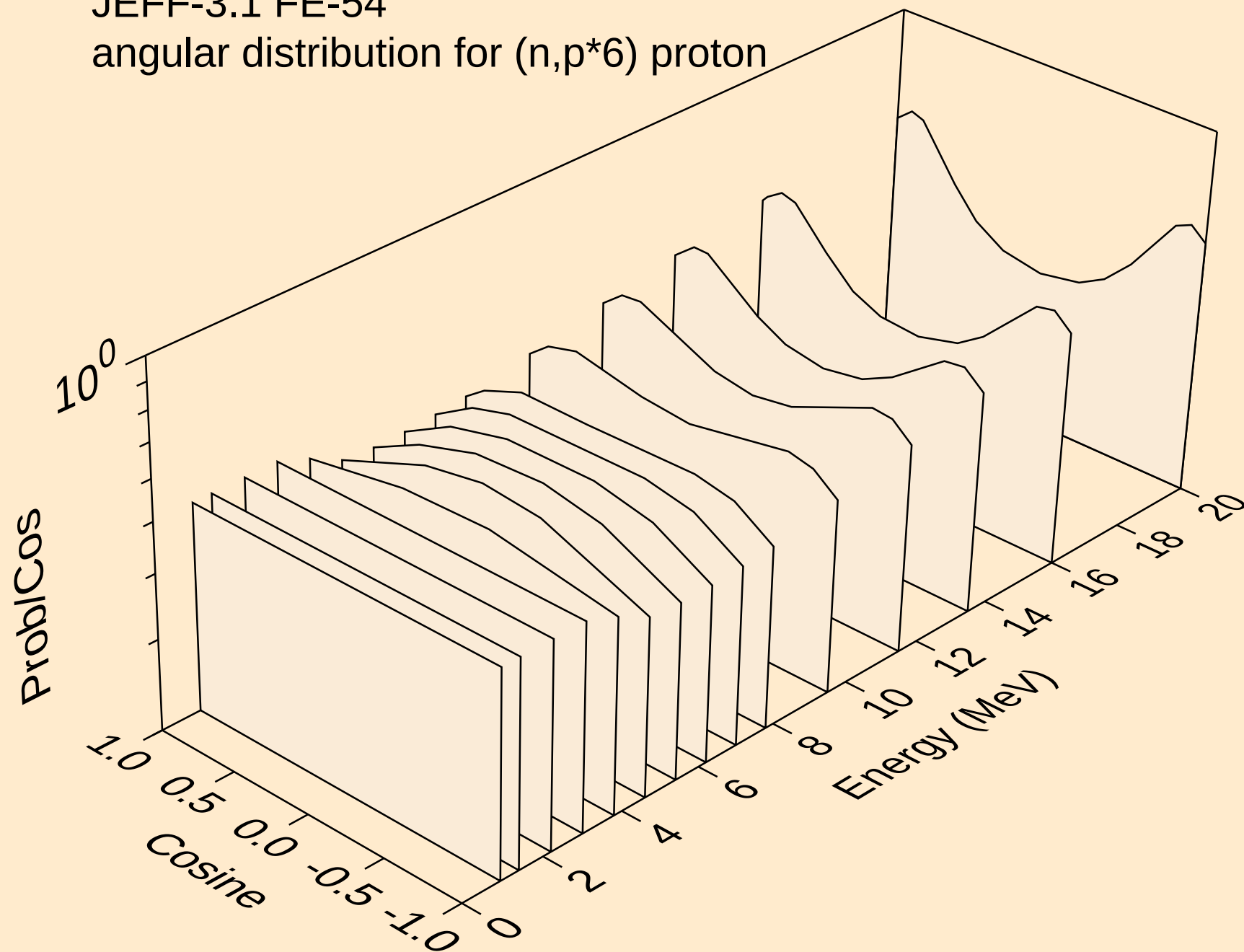
JEFF-3.1 FE-54

angular distribution for (n,p*5) proton



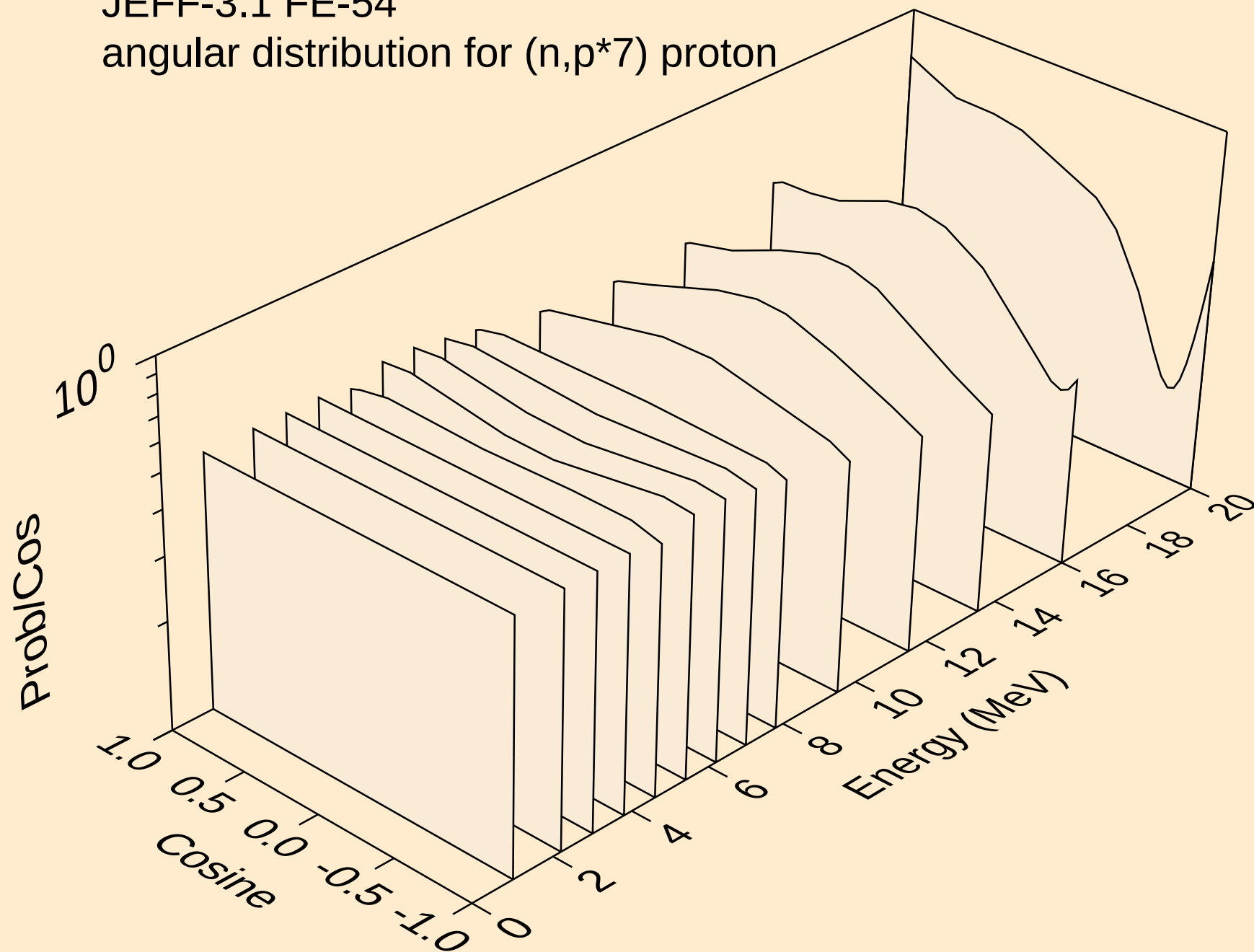
JEFF-3.1 FE-54

angular distribution for (n,p*6) proton



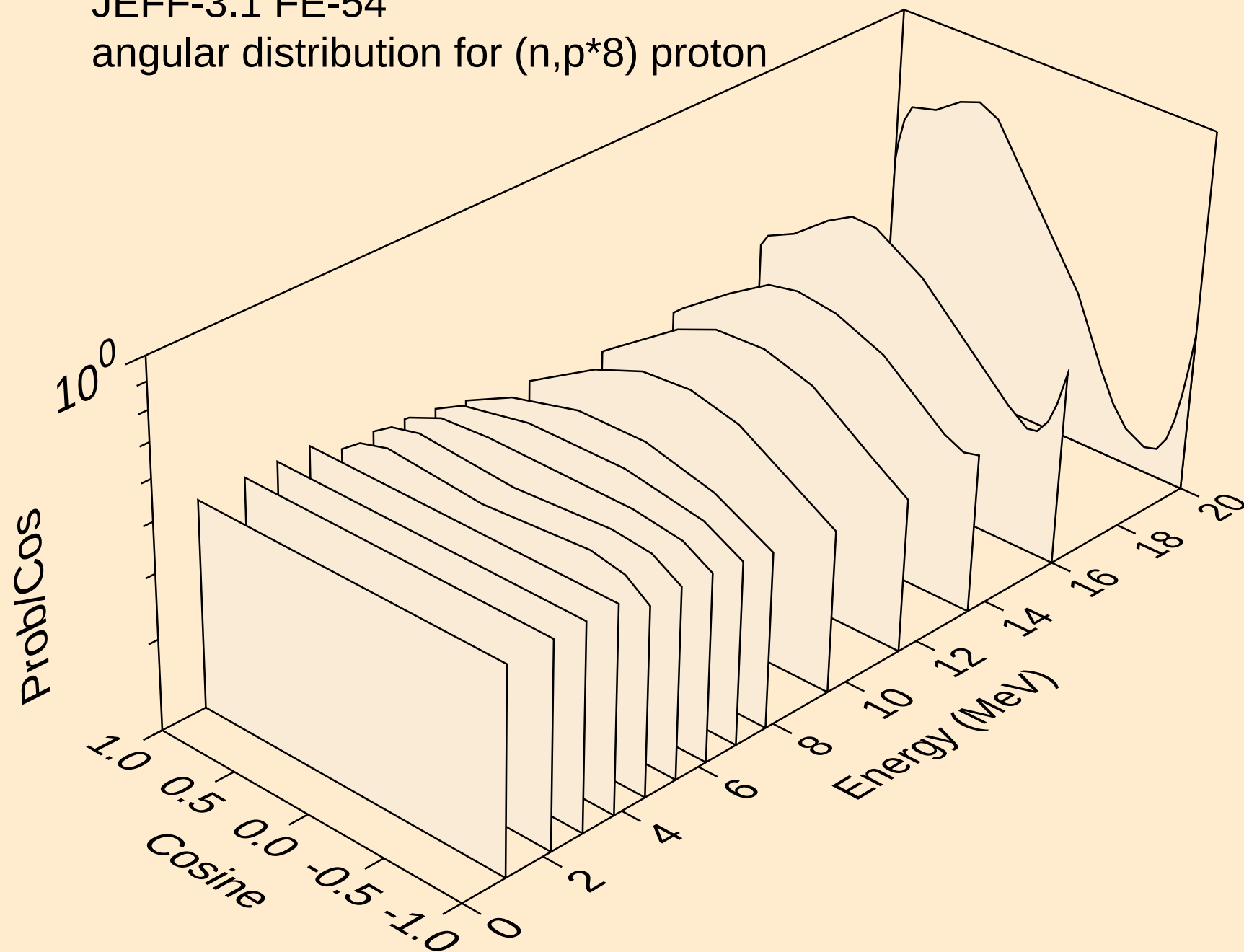
JEFF-3.1 FE-54

angular distribution for (n,p*7) proton



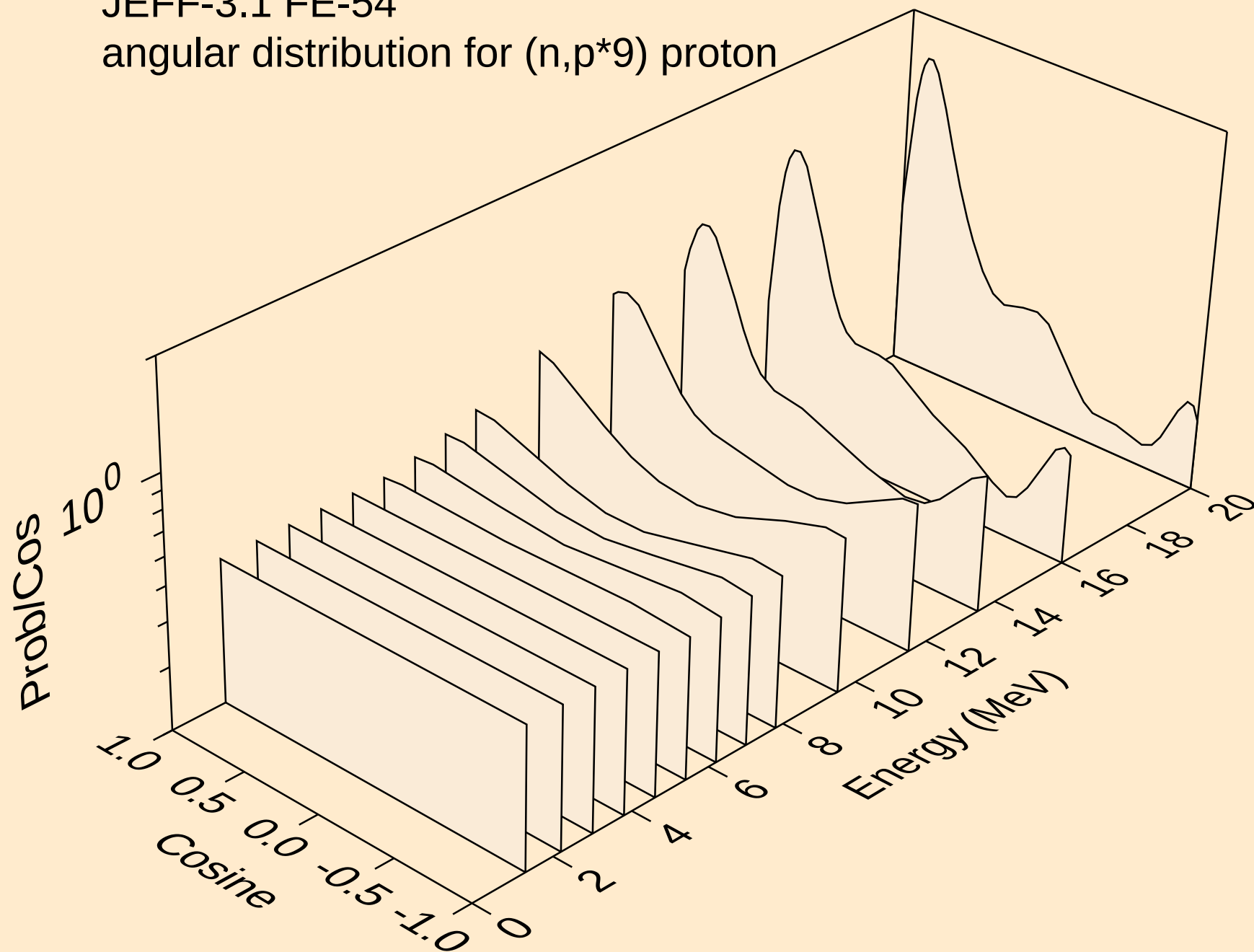
JEFF-3.1 FE-54

angular distribution for (n,p*8) proton



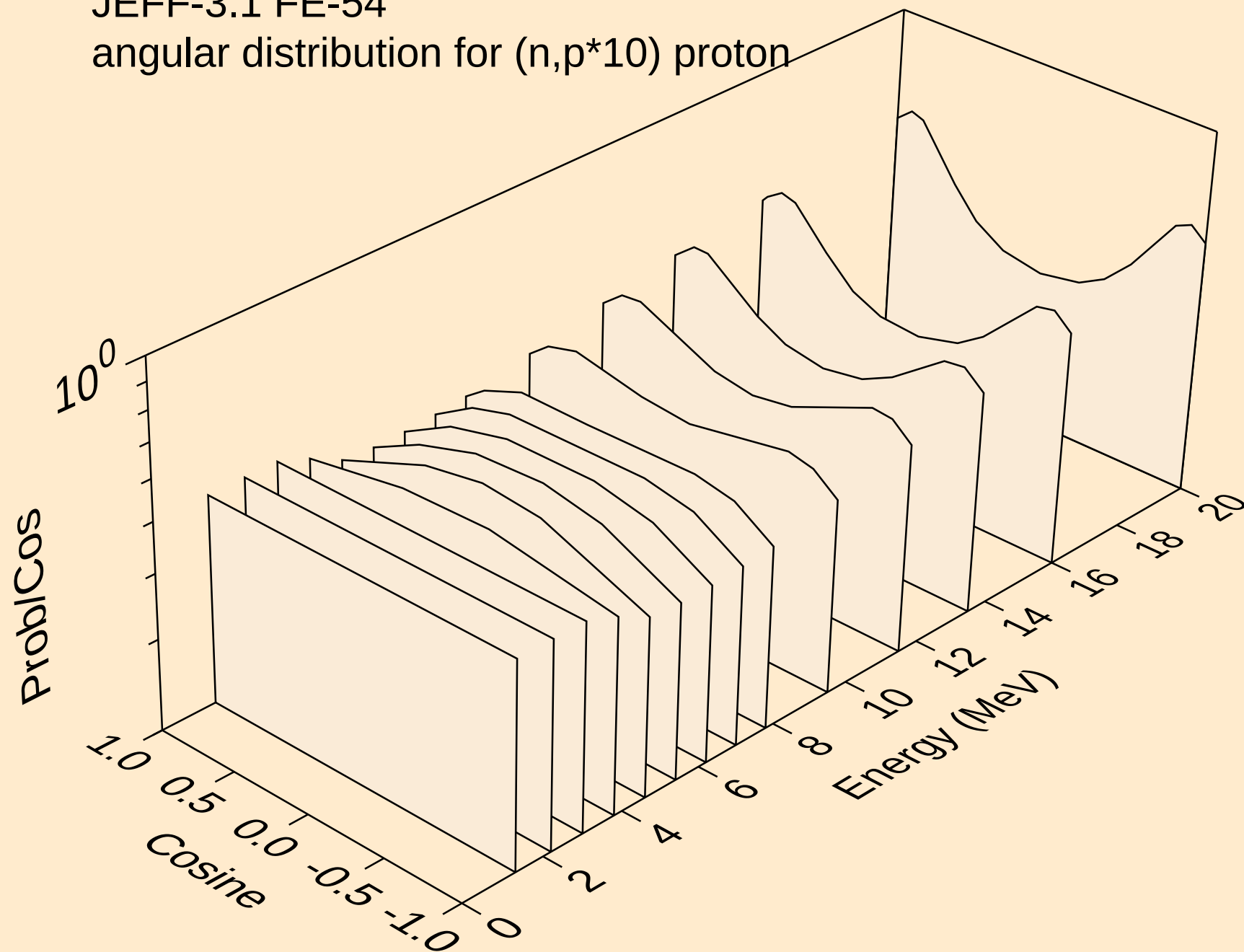
JEFF-3.1 FE-54

angular distribution for (n,p*9) proton

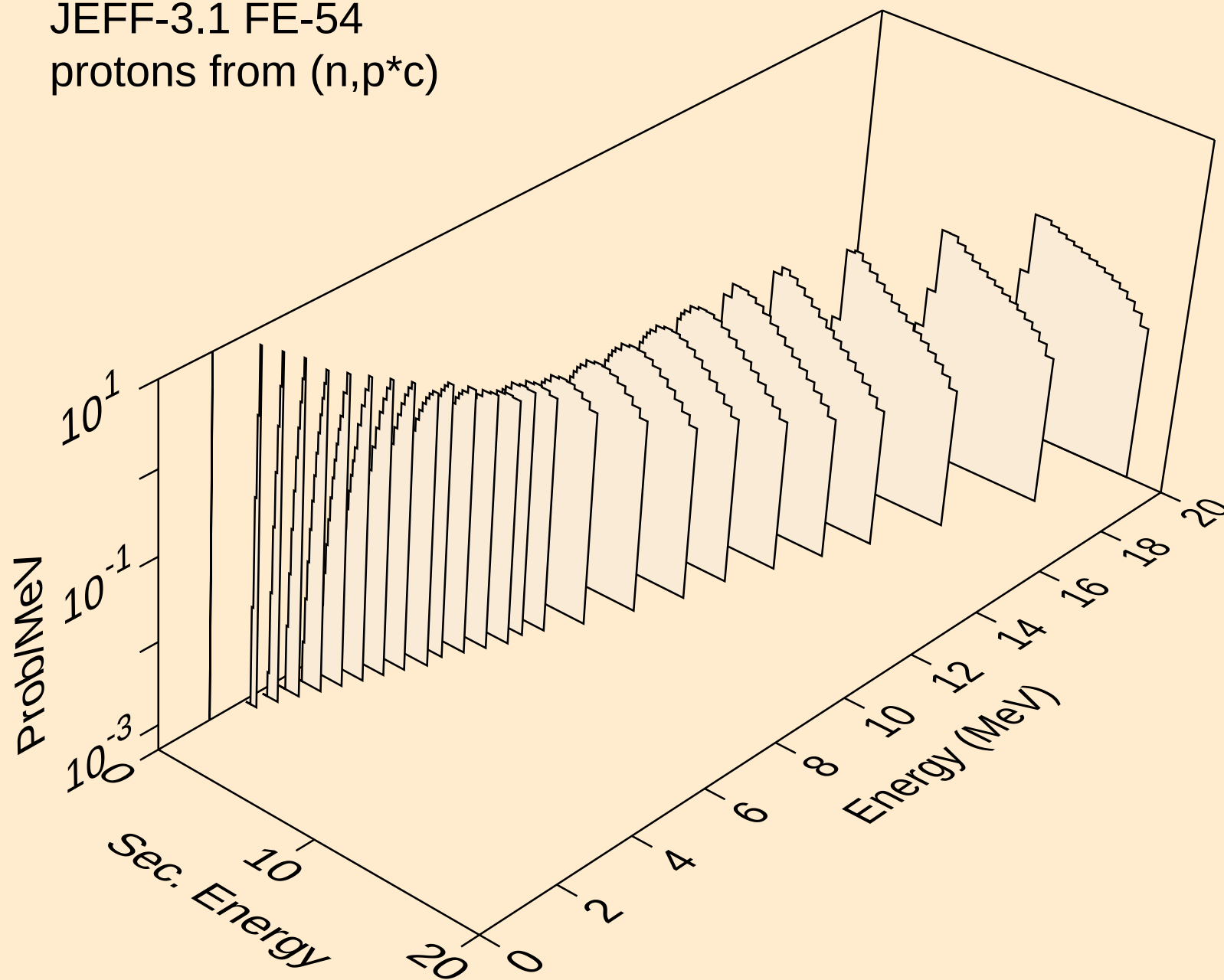


JEFF-3.1 FE-54

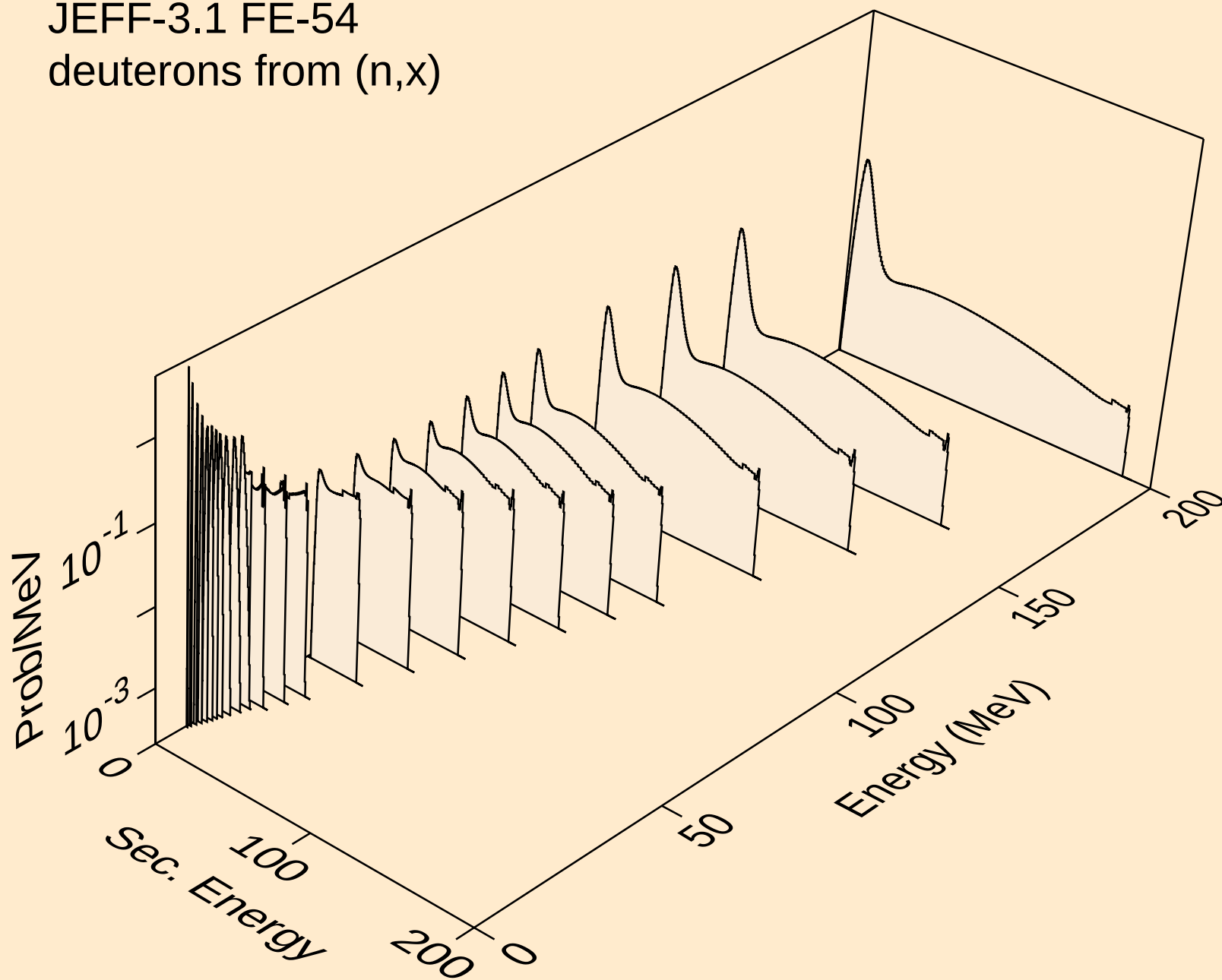
angular distribution for (n,p*10) proton



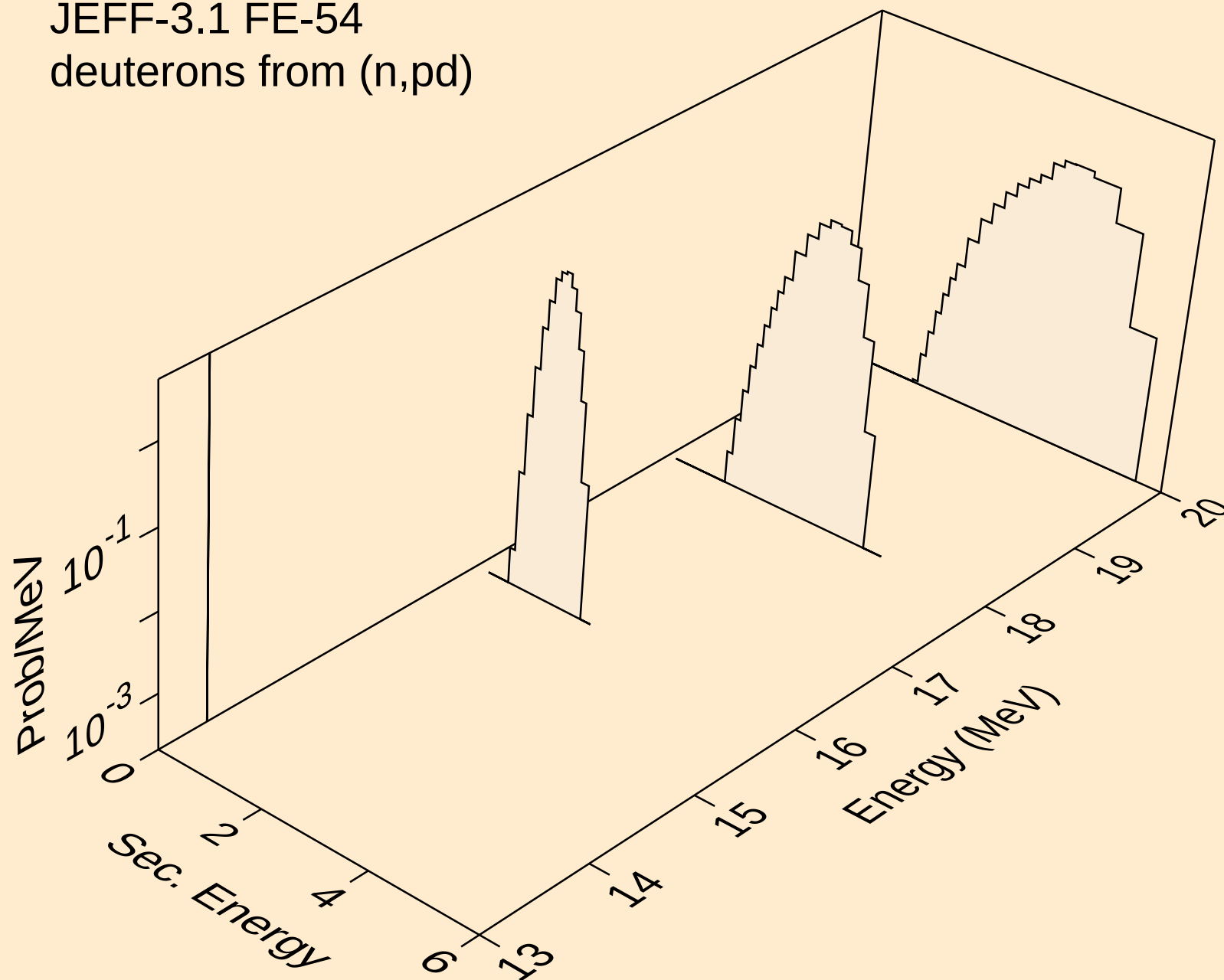
JEFF-3.1 FE-54
protons from (n,p*c)



JEFF-3.1 FE-54
deuterons from (n,x)

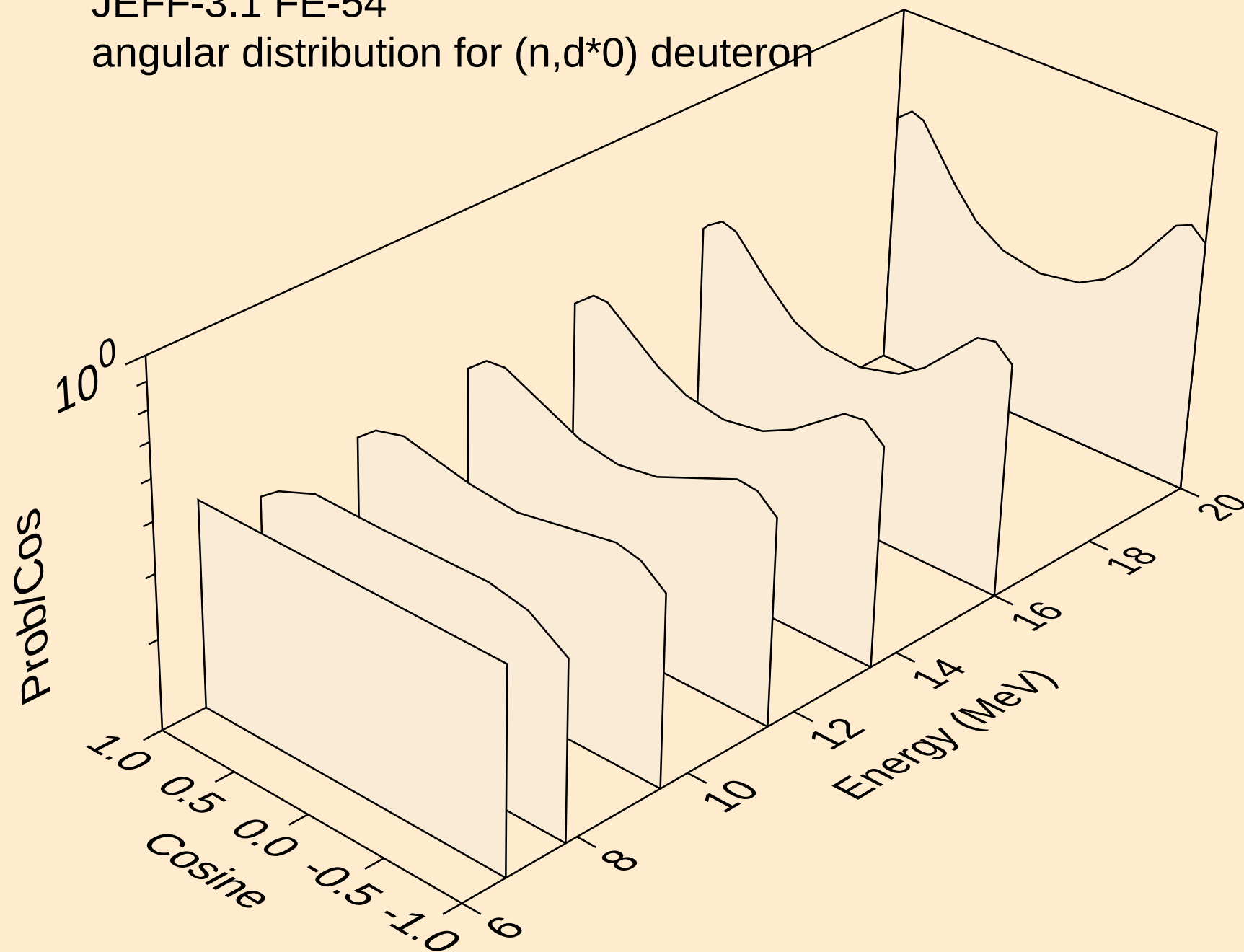


JEFF-3.1 FE-54
deuterons from (n,pd)



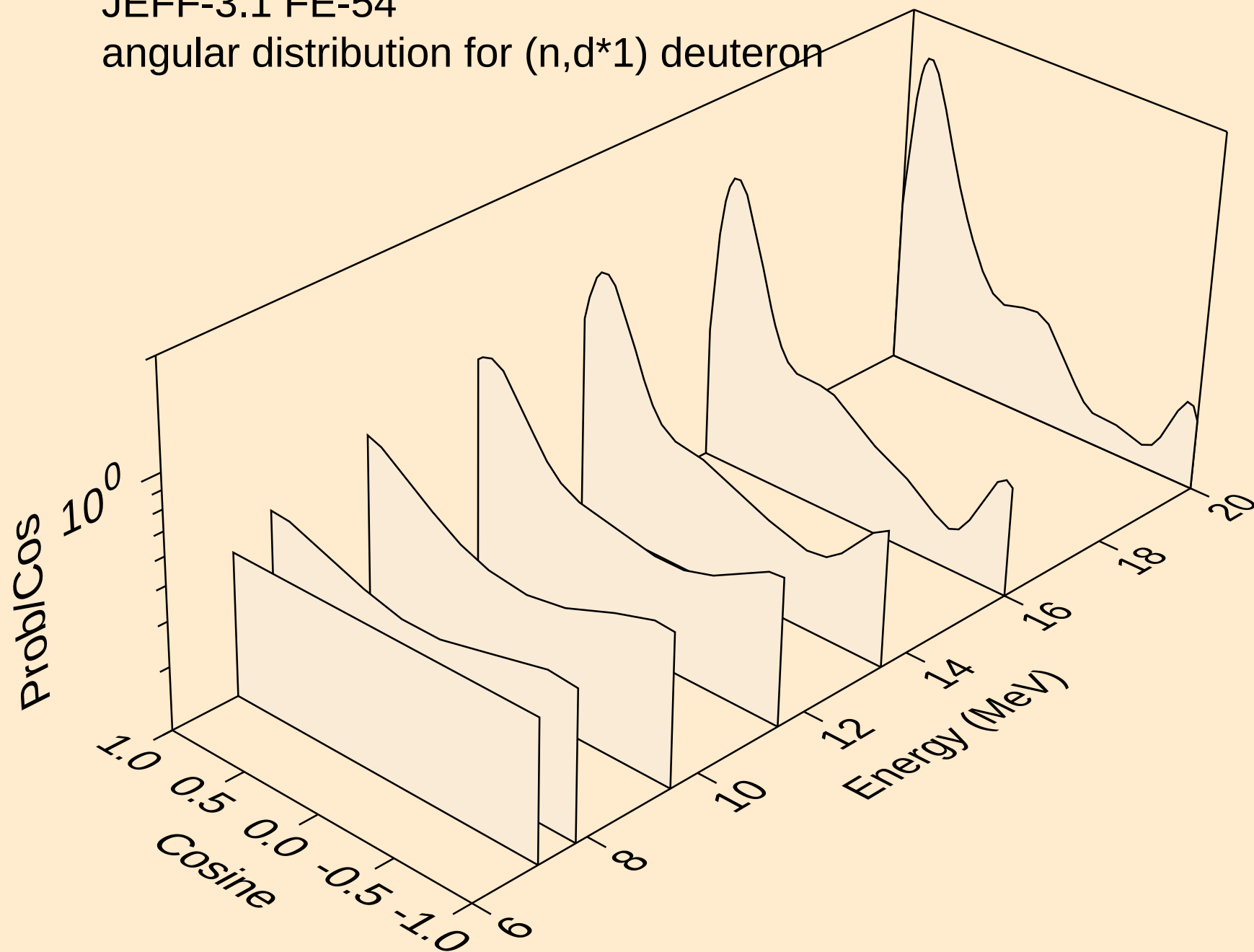
JEFF-3.1 FE-54

angular distribution for (n,d*0) deuteron



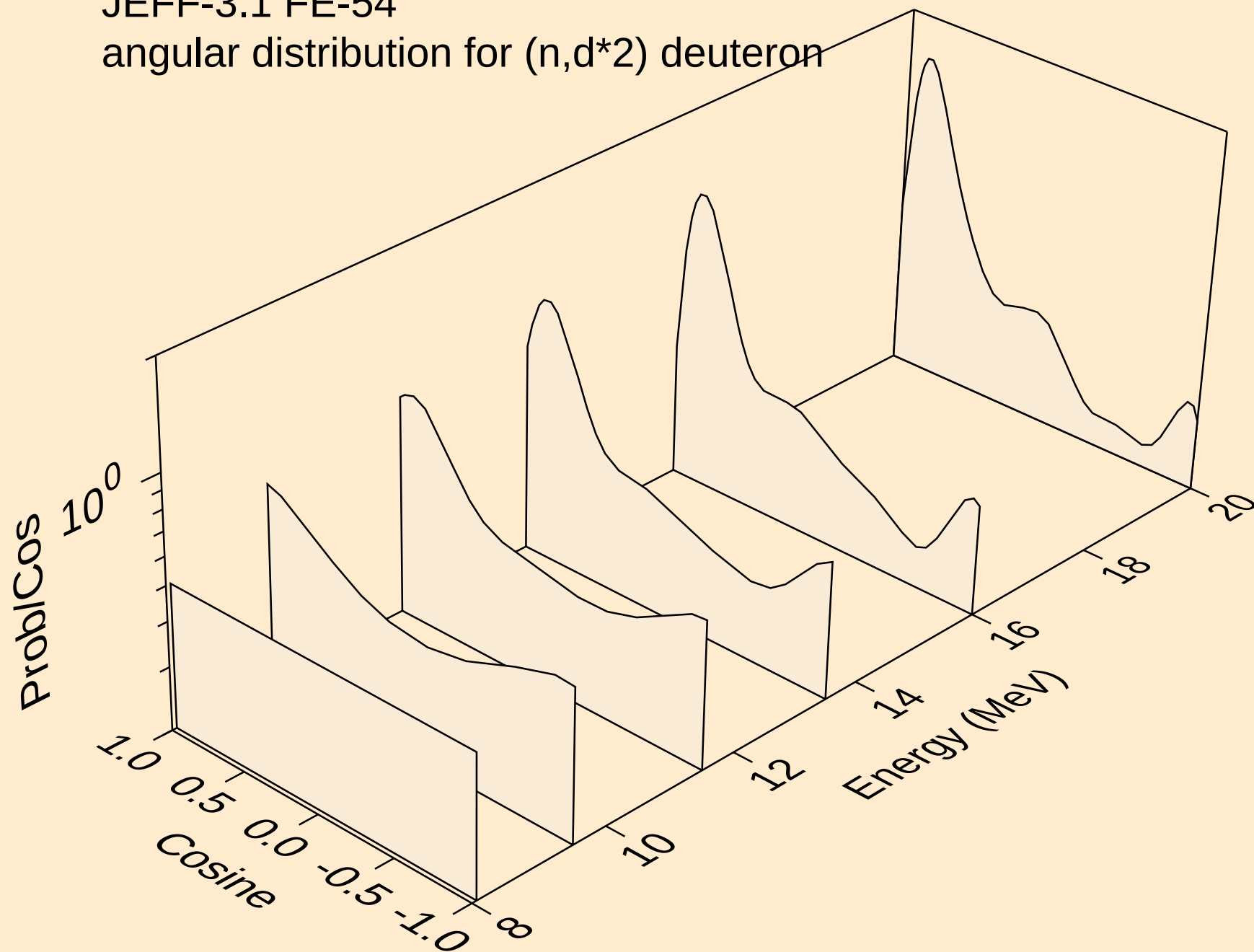
JEFF-3.1 FE-54

angular distribution for (n,d*1) deuteron



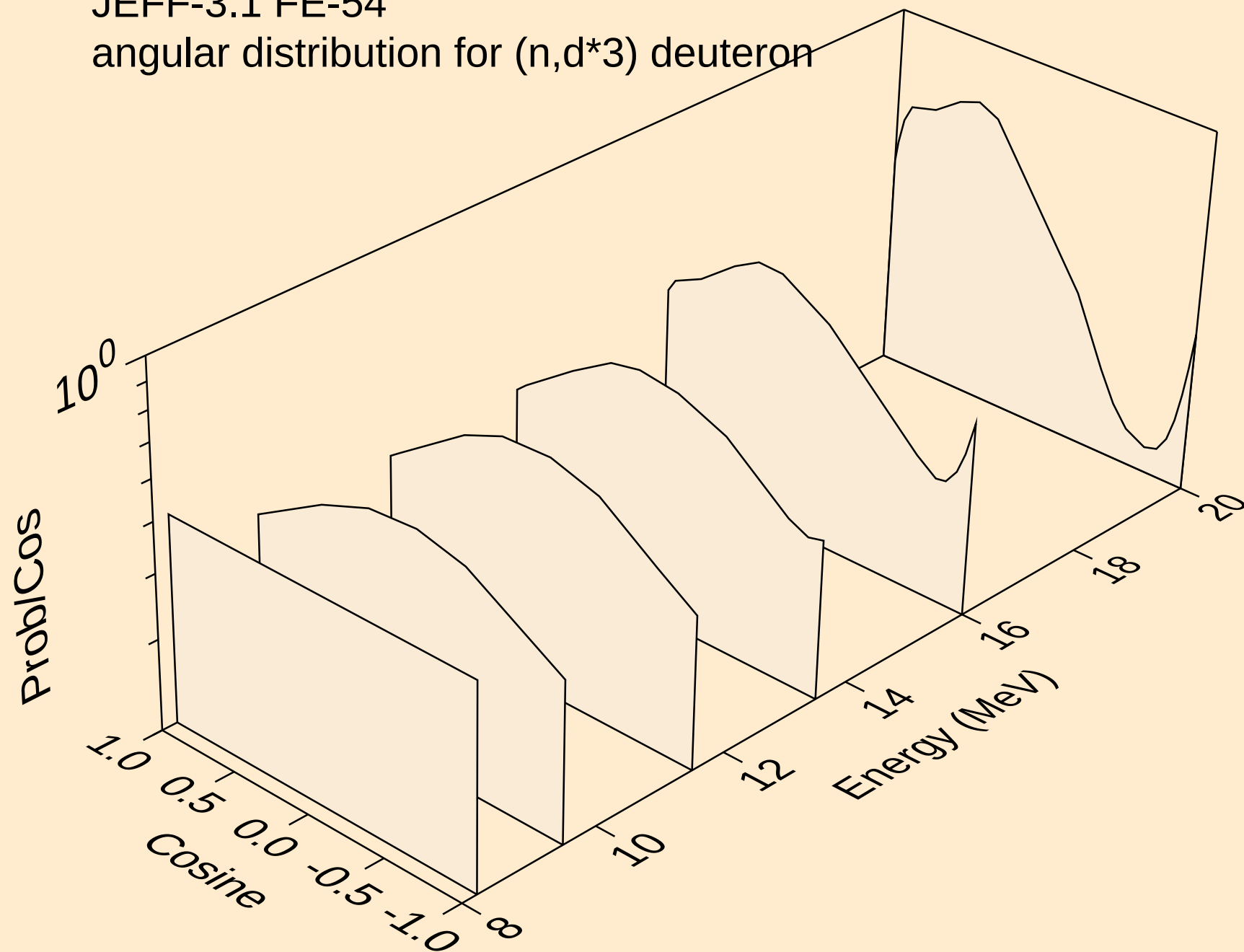
JEFF-3.1 FE-54

angular distribution for (n,d*2) deuteron



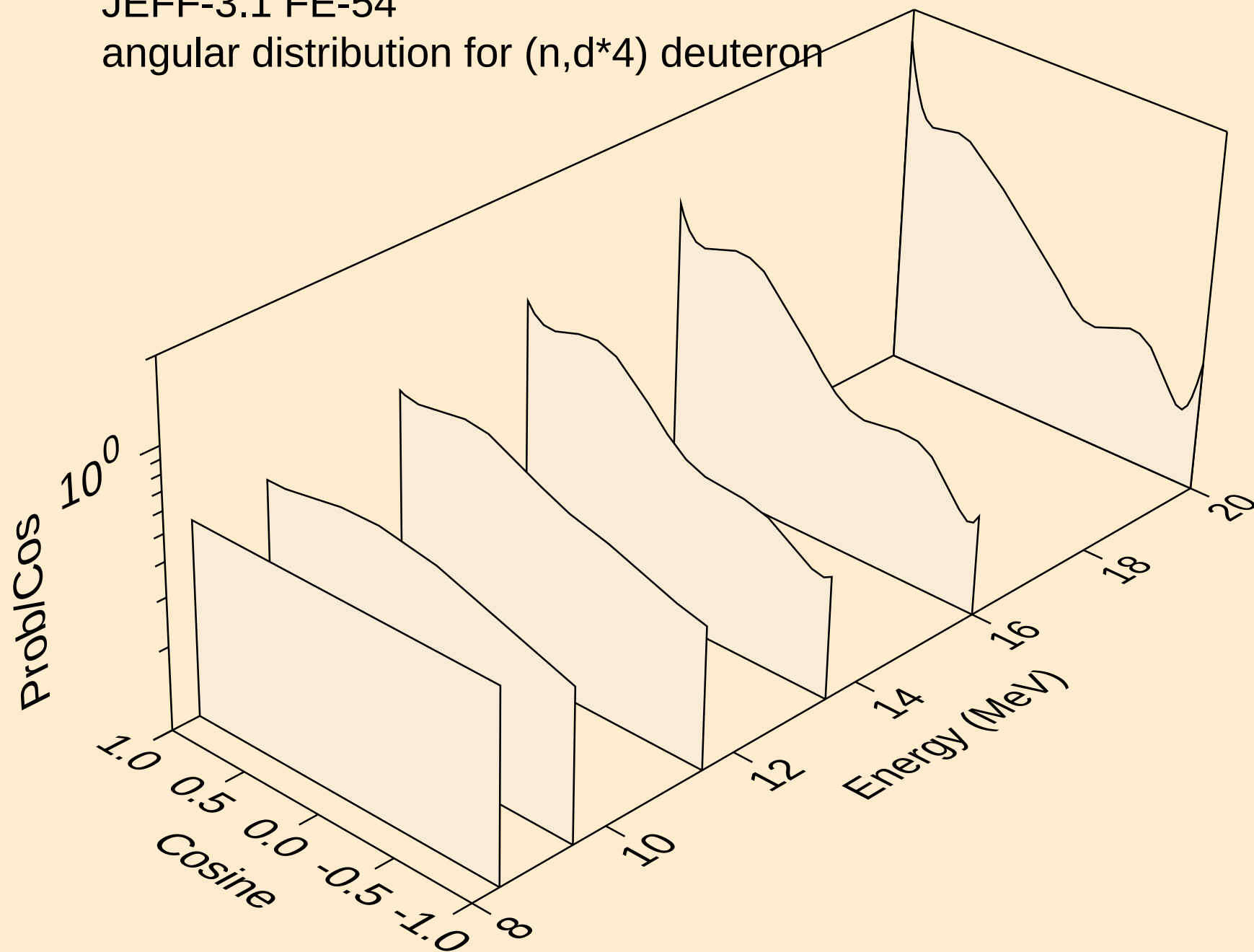
JEFF-3.1 FE-54

angular distribution for (n,d*3) deuteron



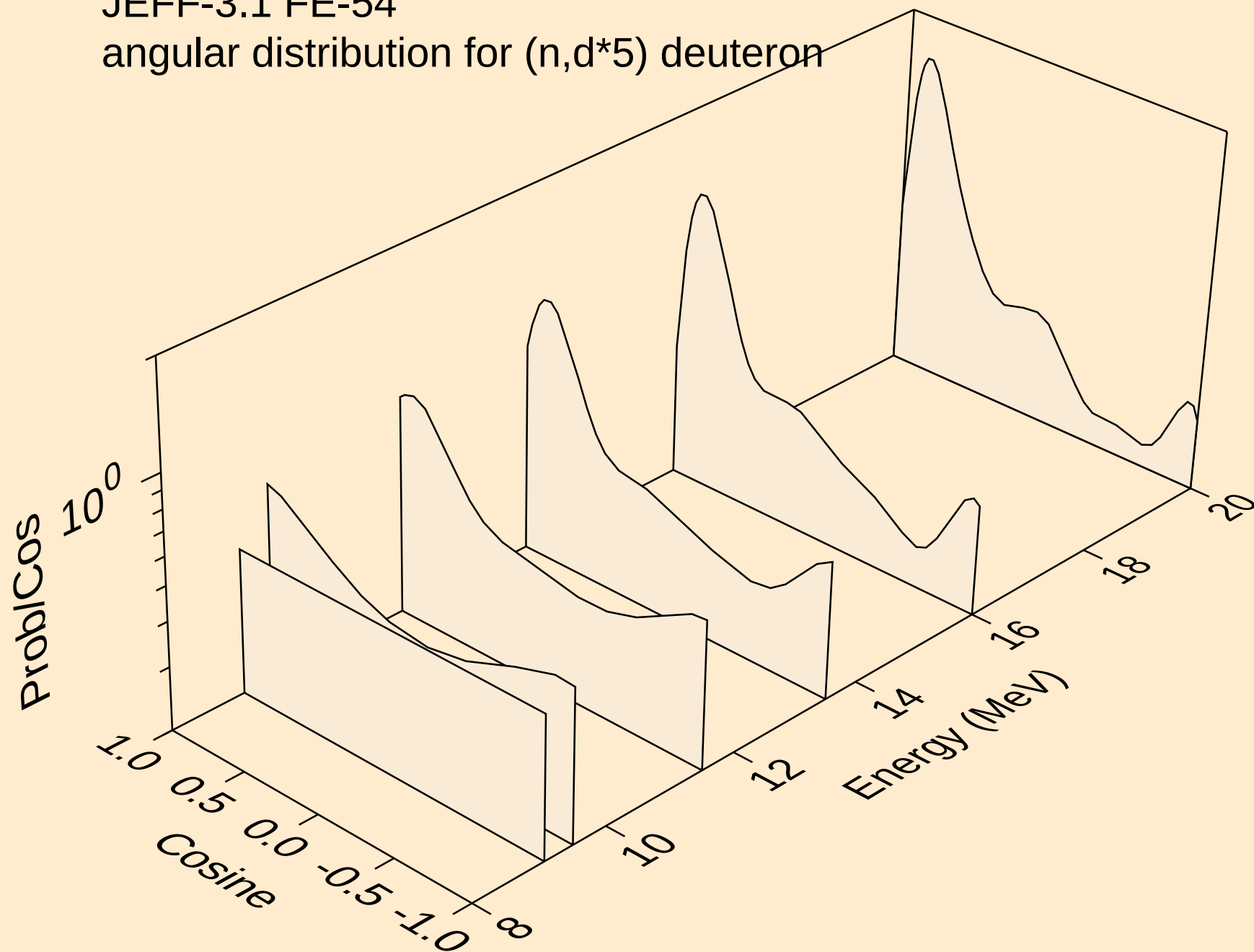
JEFF-3.1 FE-54

angular distribution for (n,d*4) deuteron

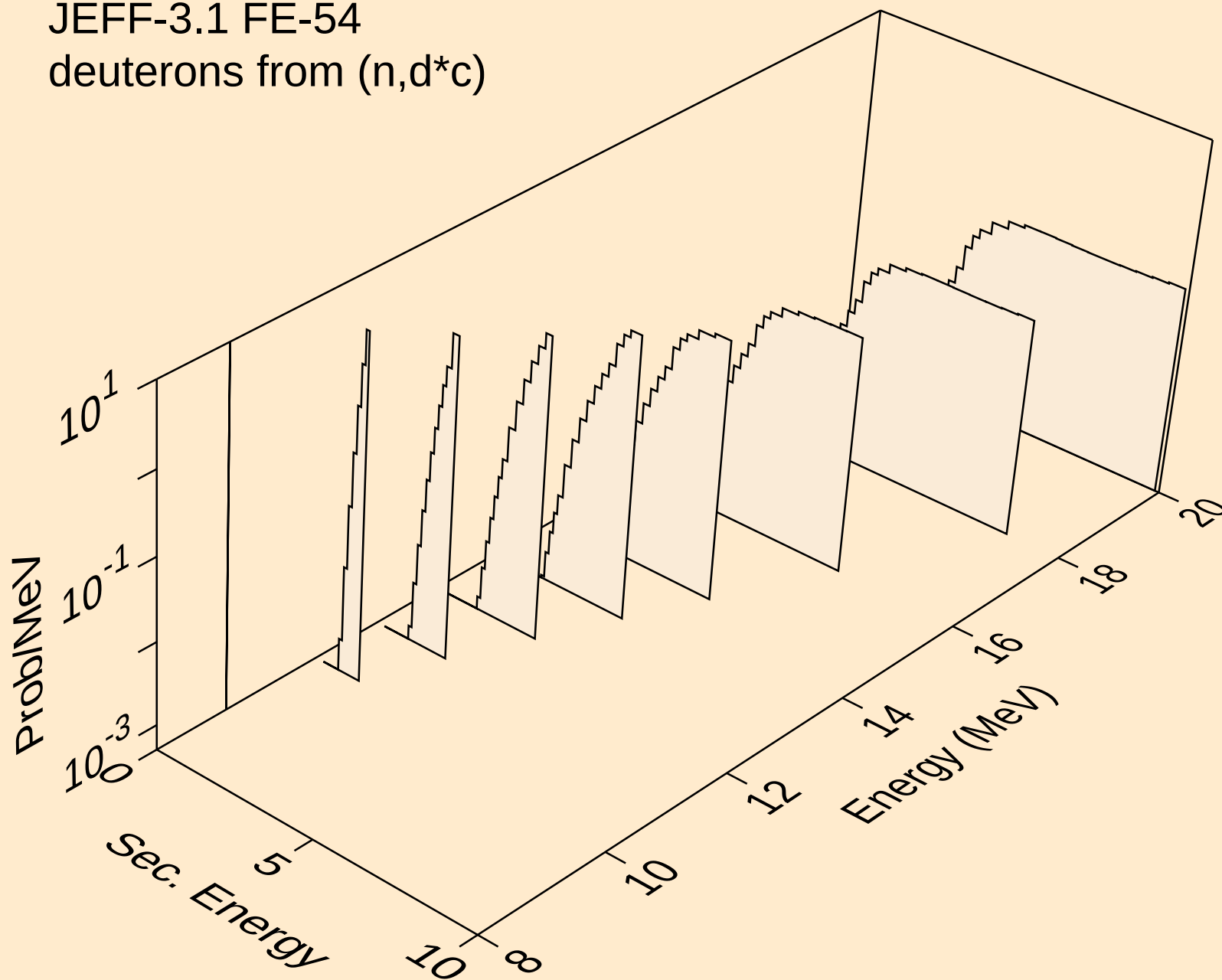


JEFF-3.1 FE-54

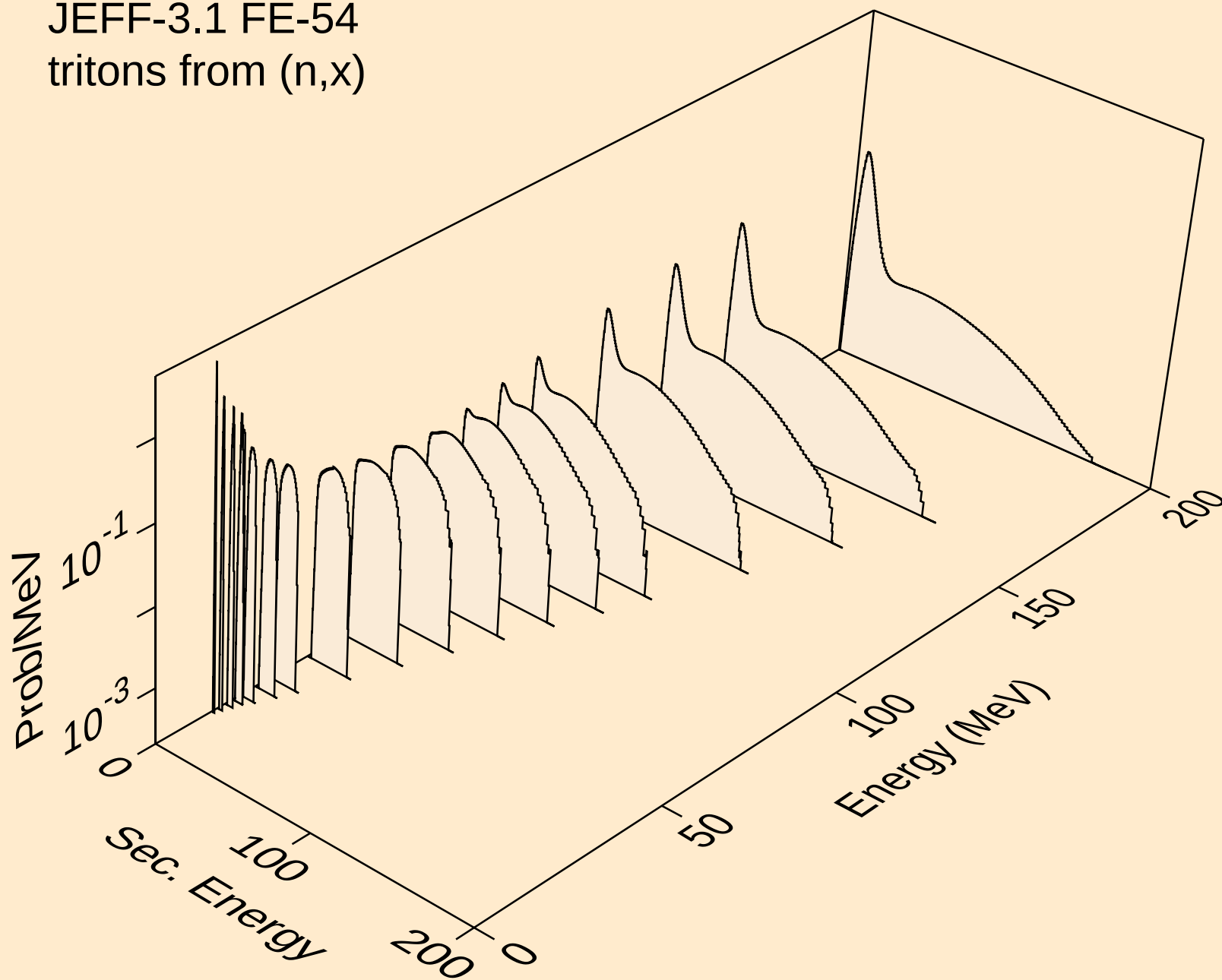
angular distribution for (n,d*5) deuteron



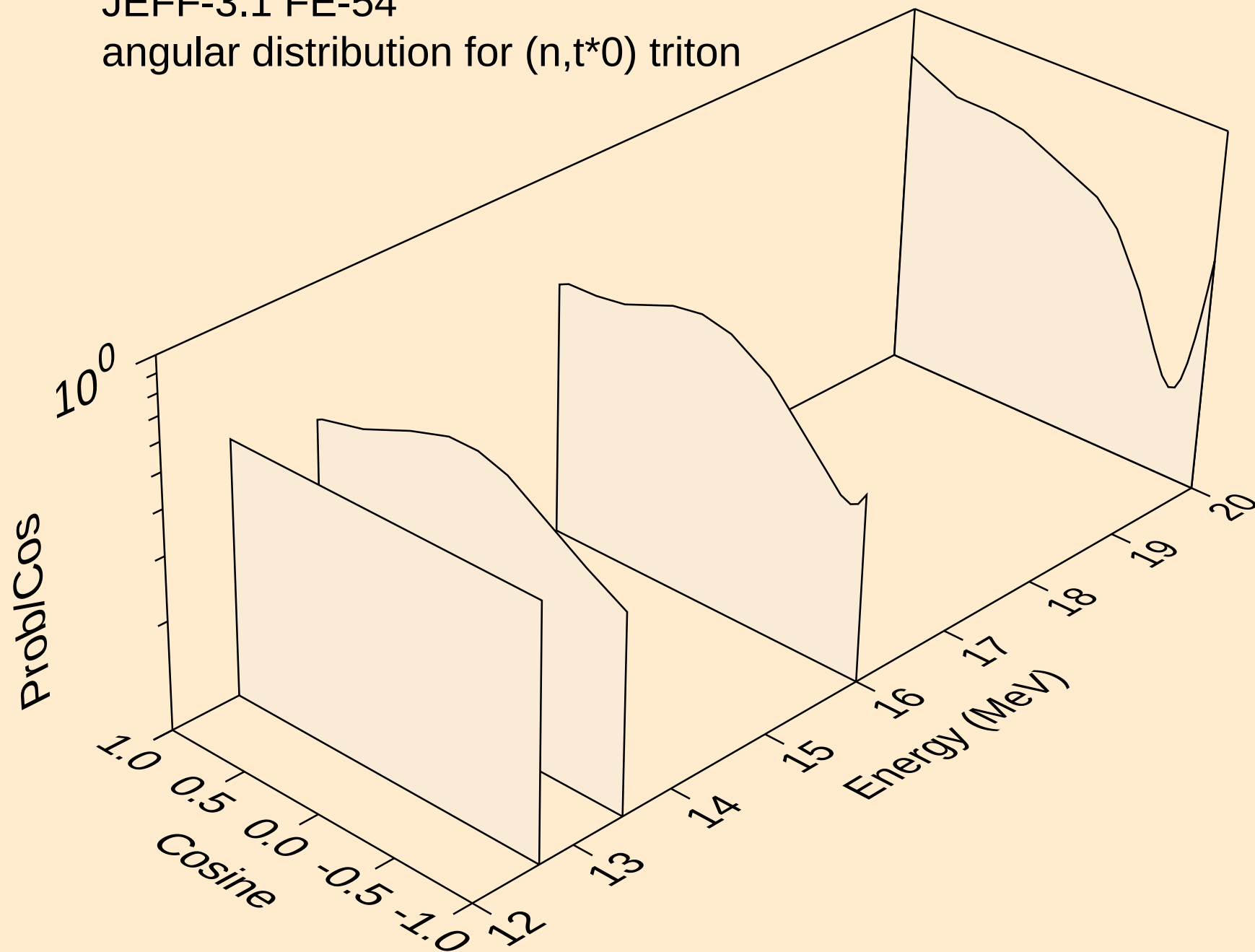
JEFF-3.1 FE-54
deuterons from (n,d*c)



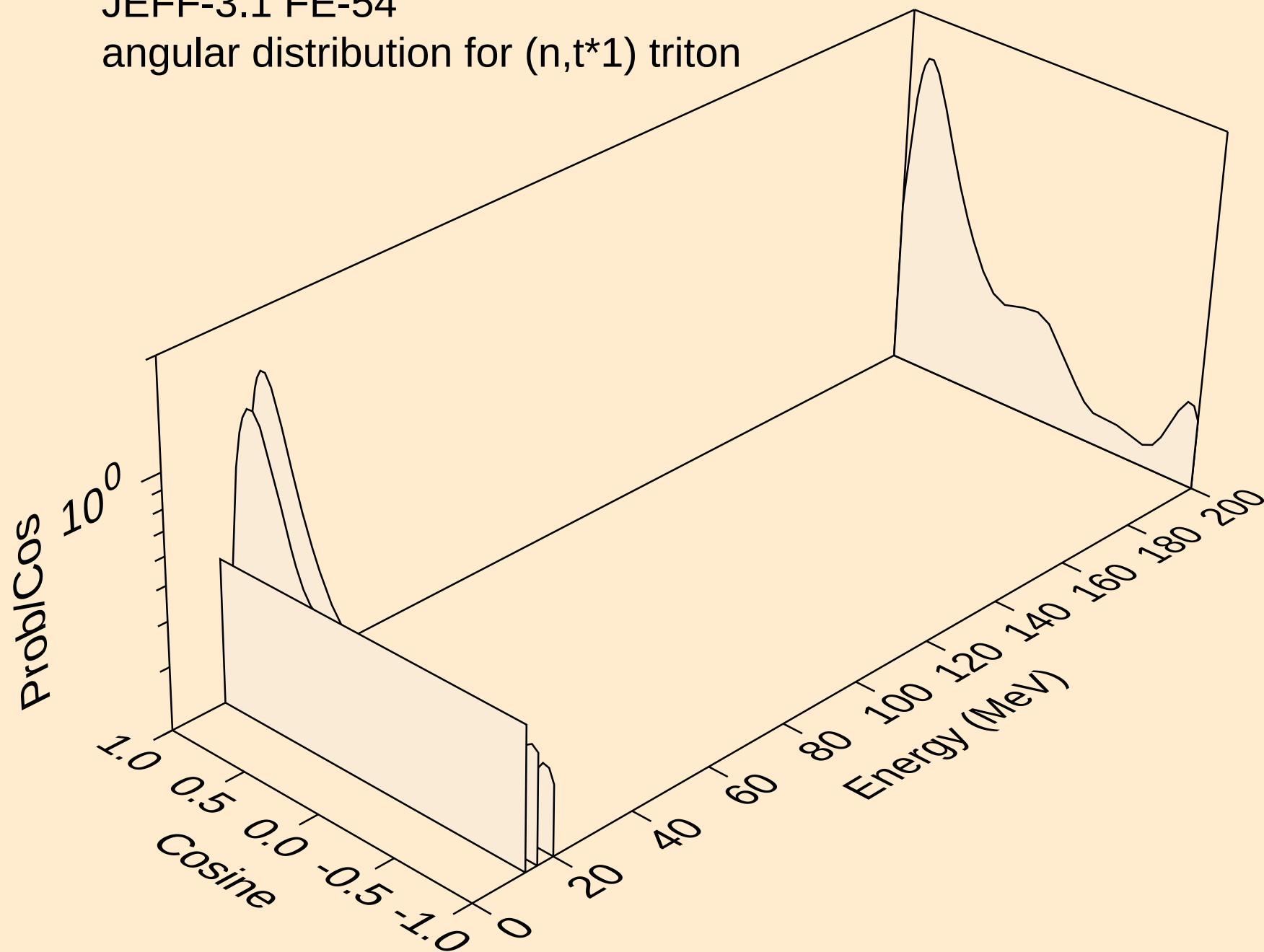
JEFF-3.1 FE-54
tritons from (n,x)



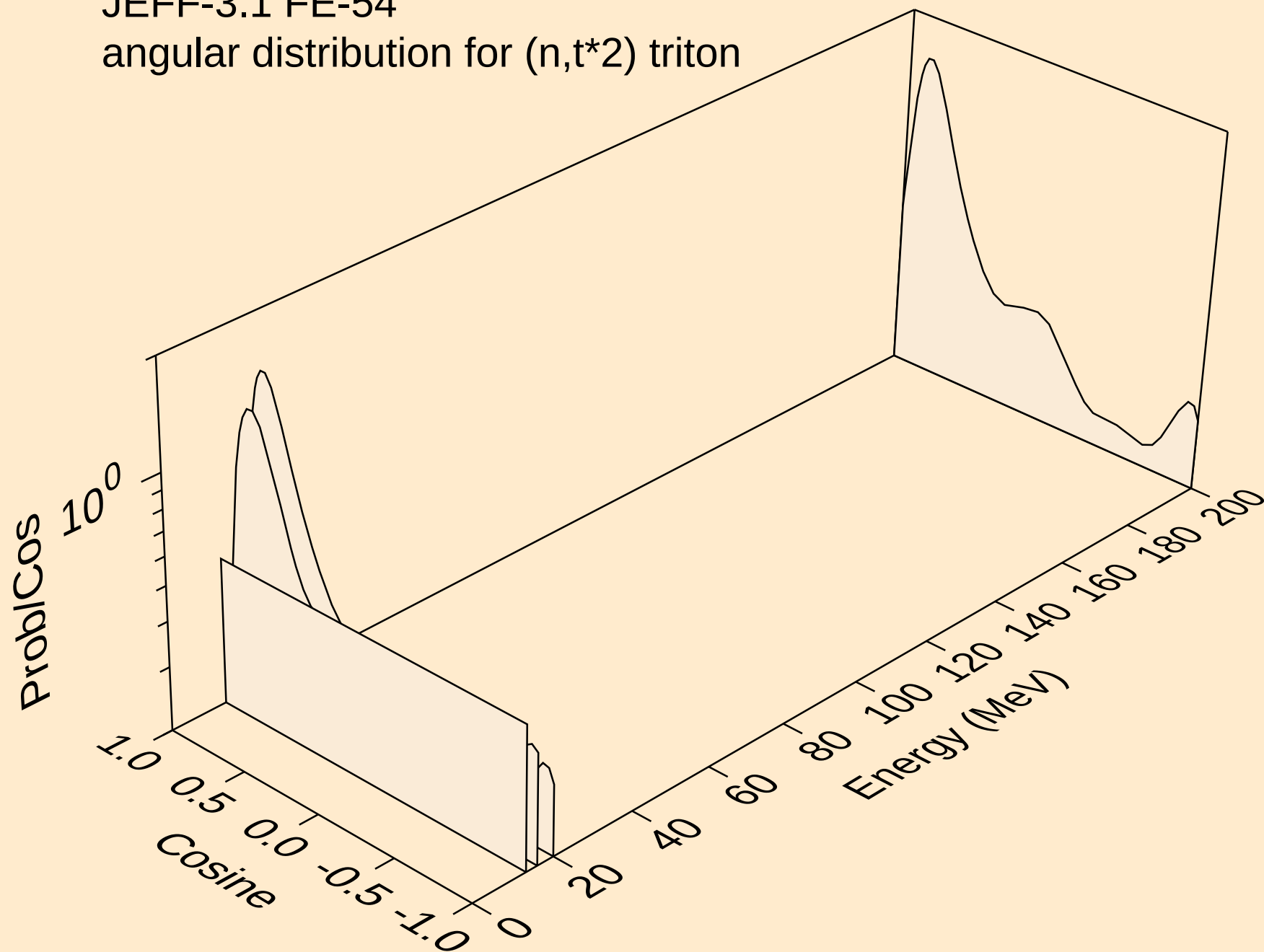
JEFF-3.1 FE-54
angular distribution for (n,t*0) triton



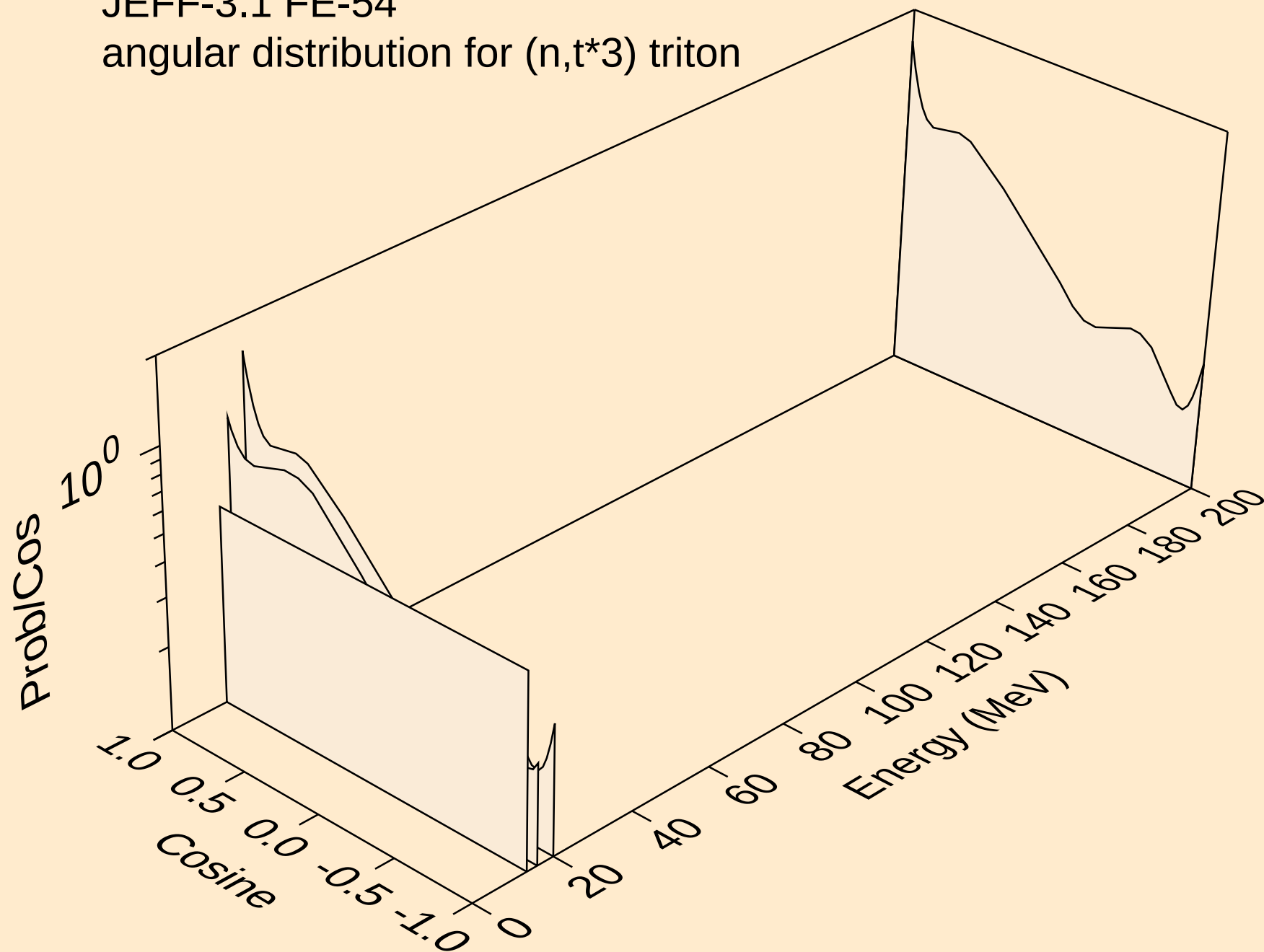
JEFF-3.1 FE-54
angular distribution for (n,t*1) triton



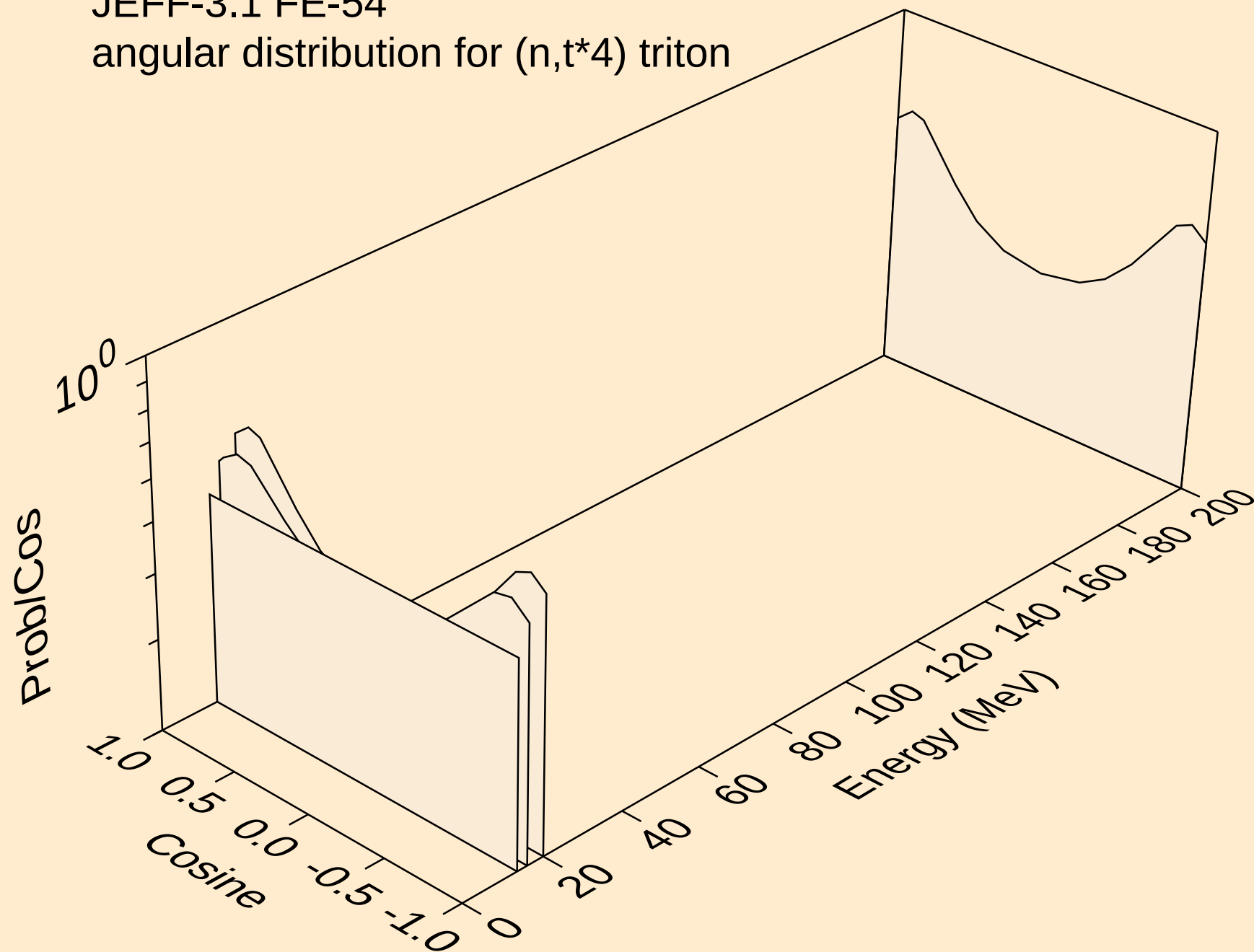
JEFF-3.1 FE-54
angular distribution for (n,t*2) triton



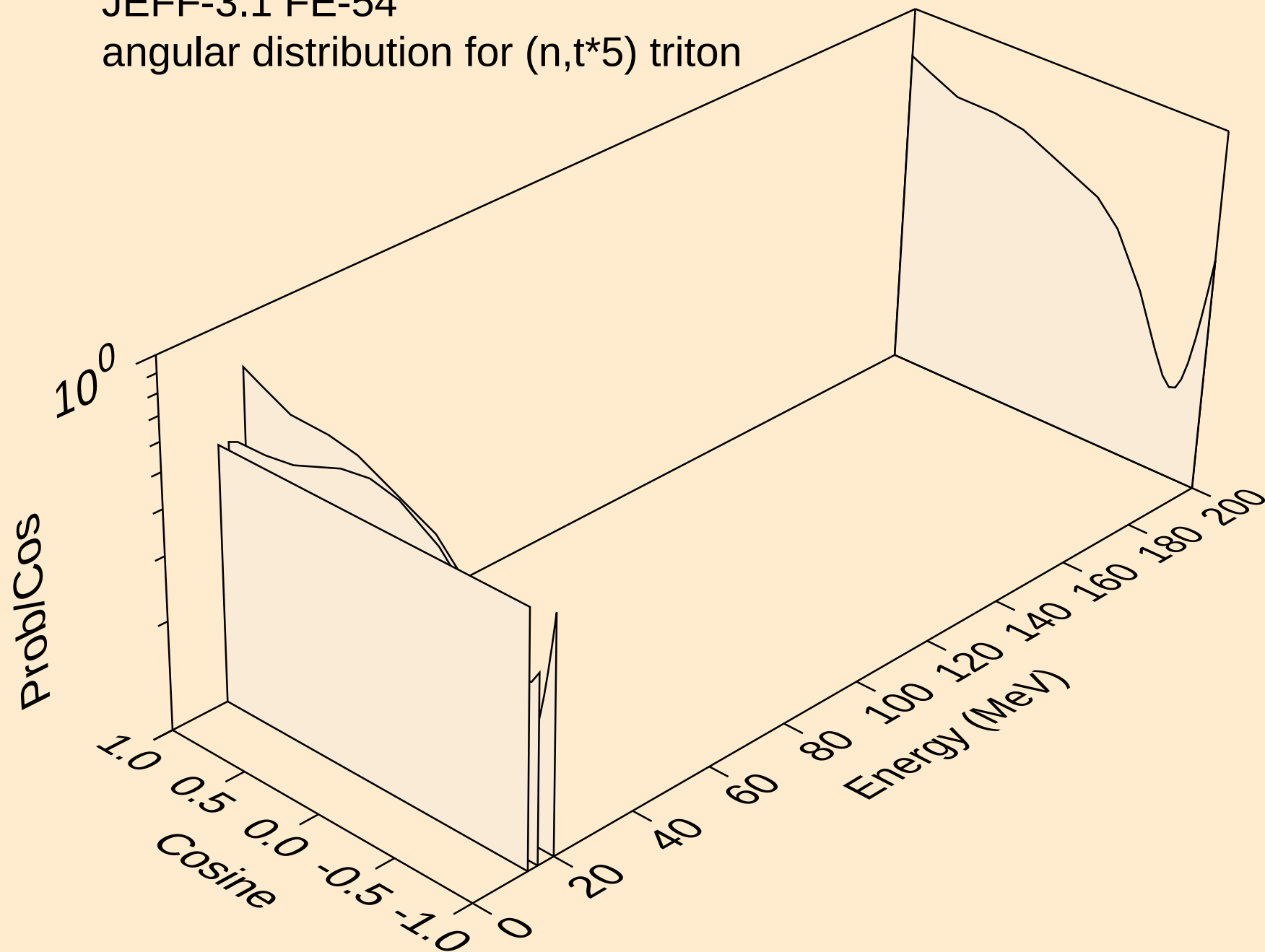
JEFF-3.1 FE-54
angular distribution for (n,t*3) triton



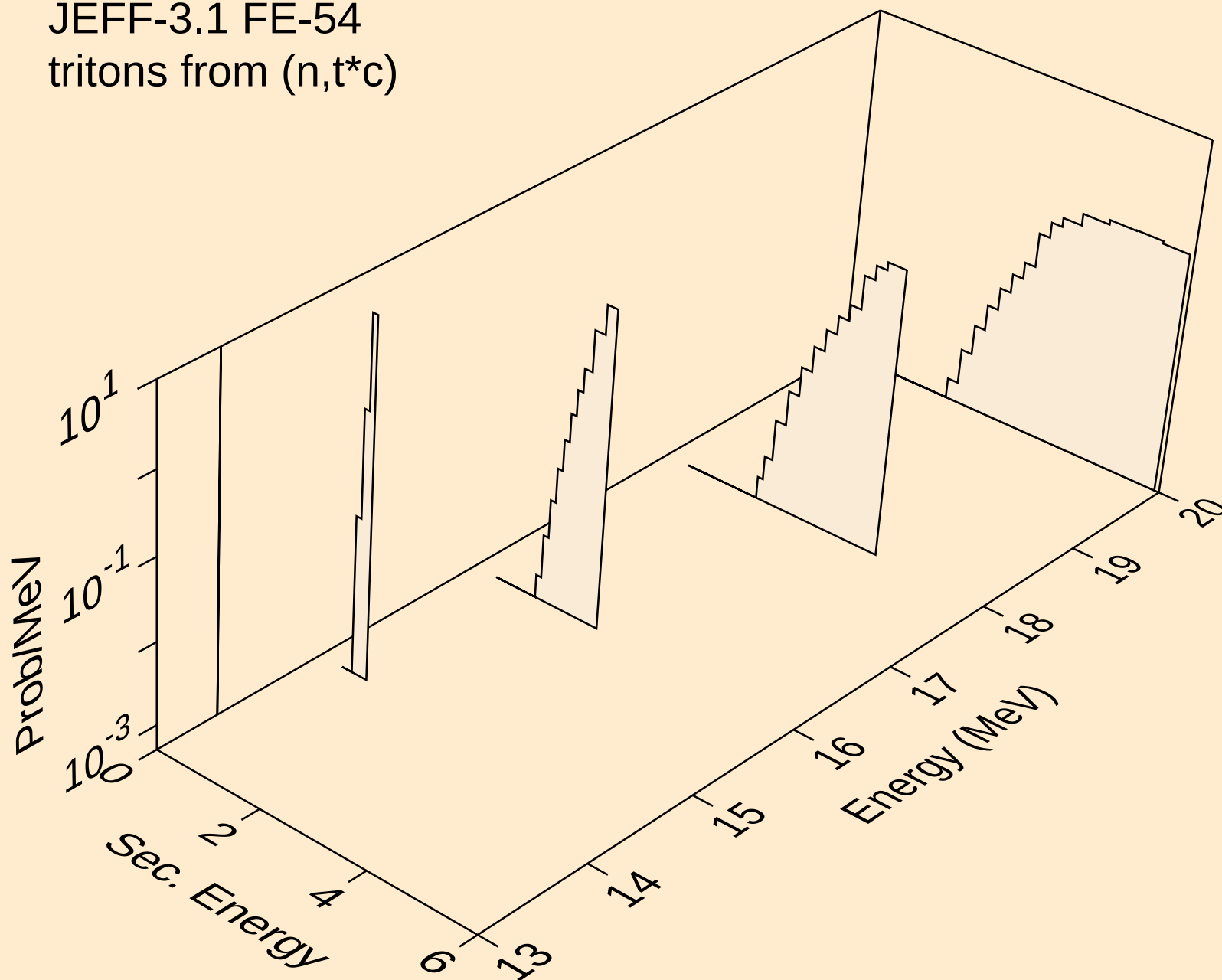
JEFF-3.1 FE-54
angular distribution for (n,t*4) triton



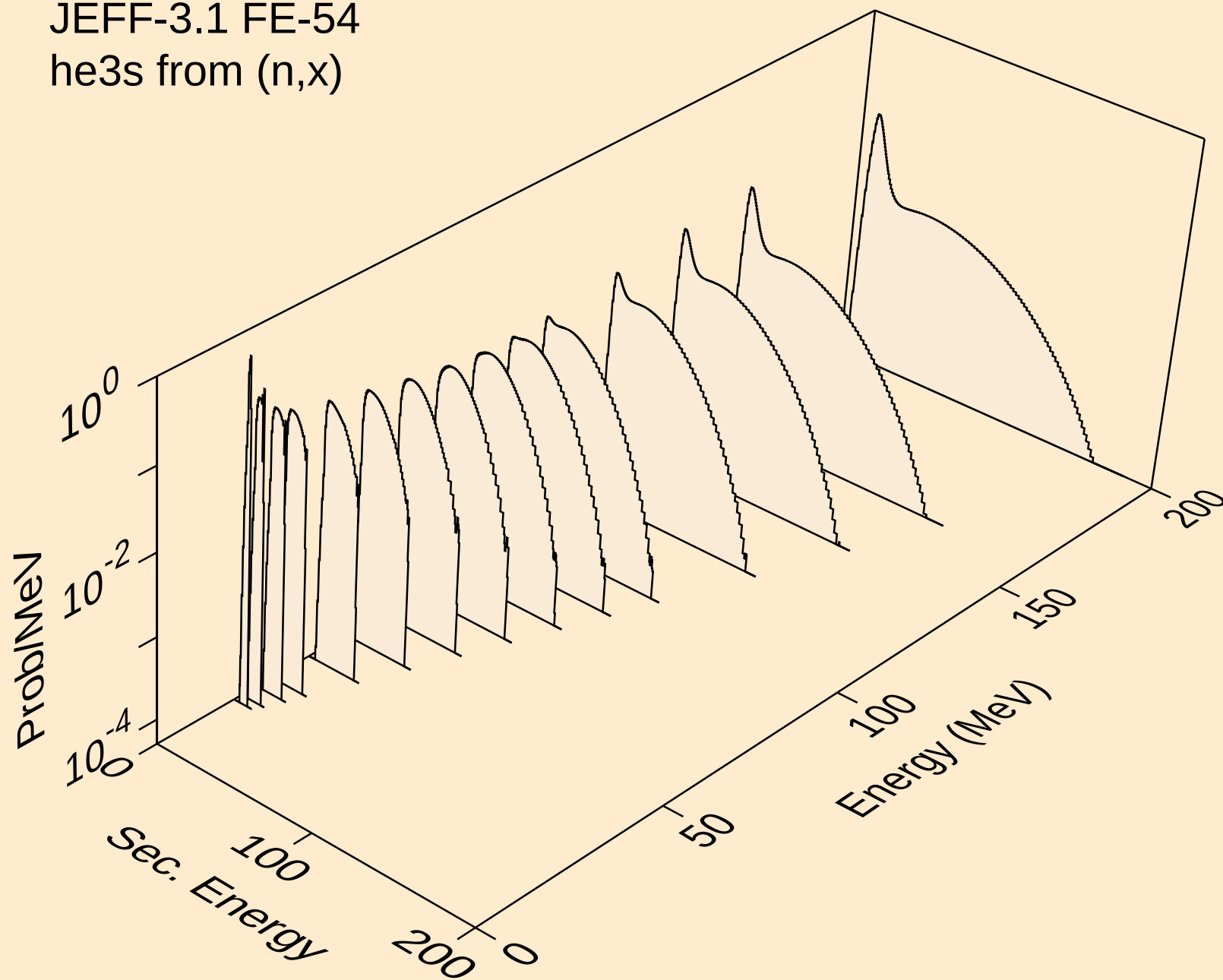
JEFF-3.1 FE-54
angular distribution for (n,t*5) triton



JEFF-3.1 FE-54
tritons from (n,t*c)

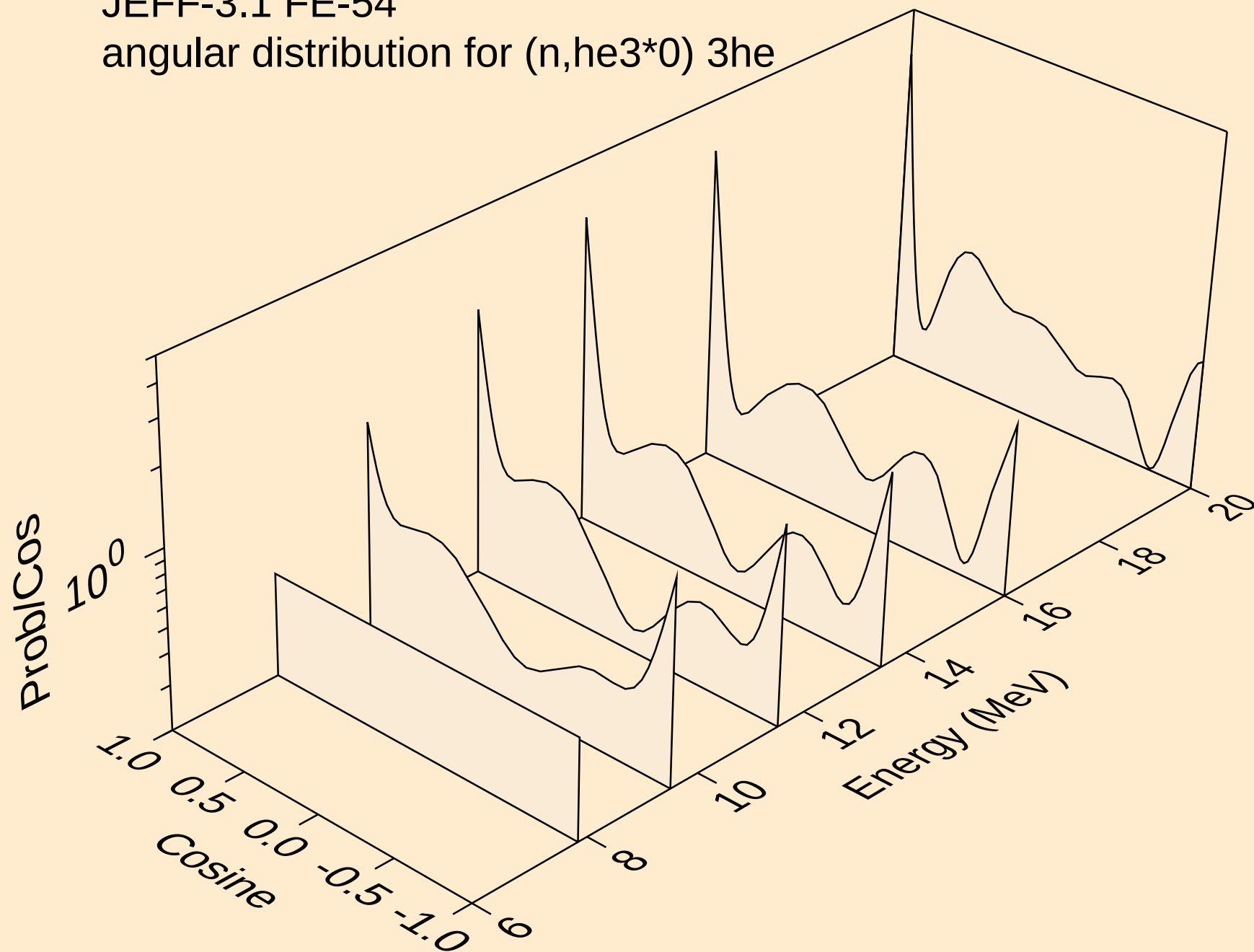


JEFF-3.1 FE-54
he3s from (n,x)



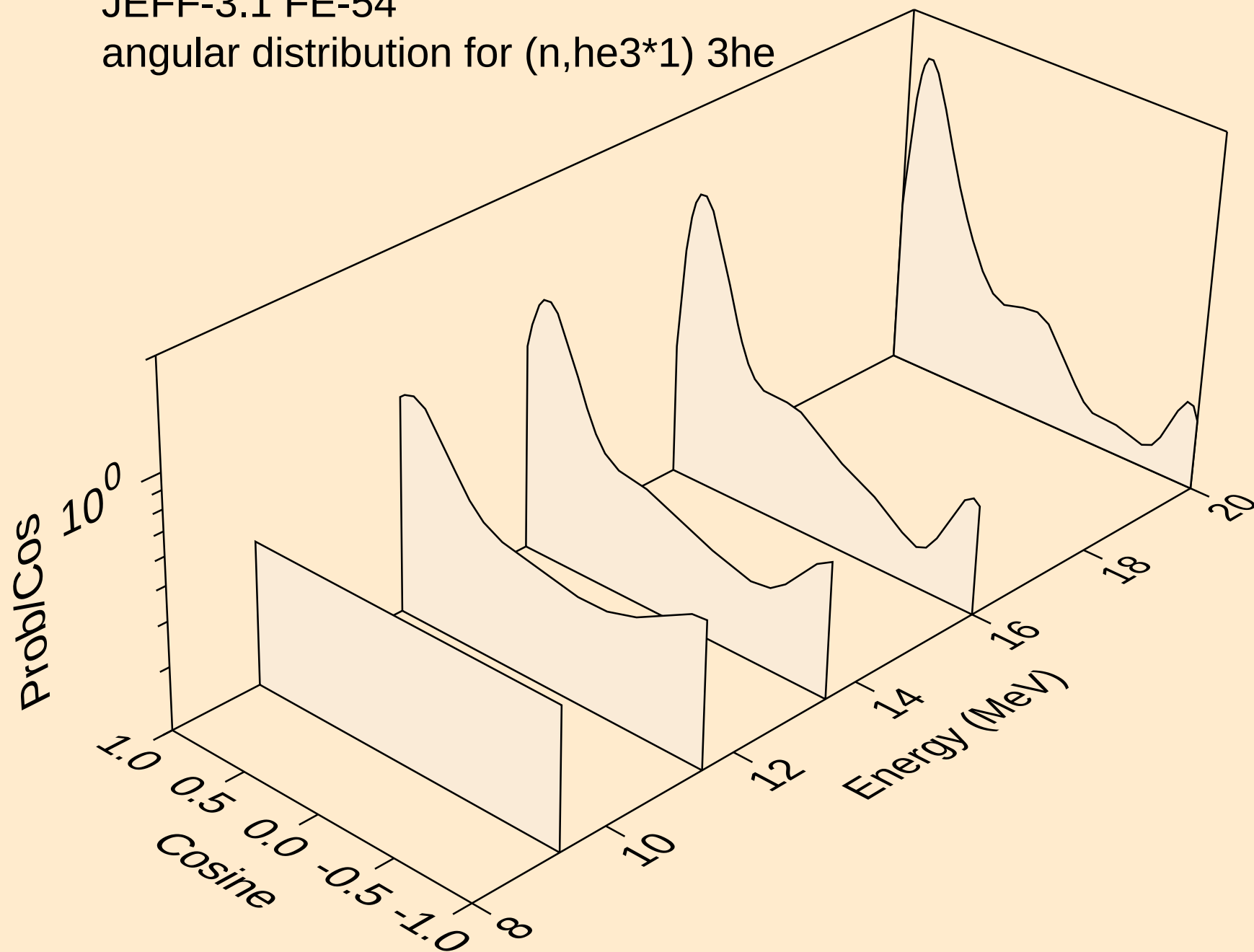
JEFF-3.1 FE-54

angular distribution for (n,he3*0) 3he



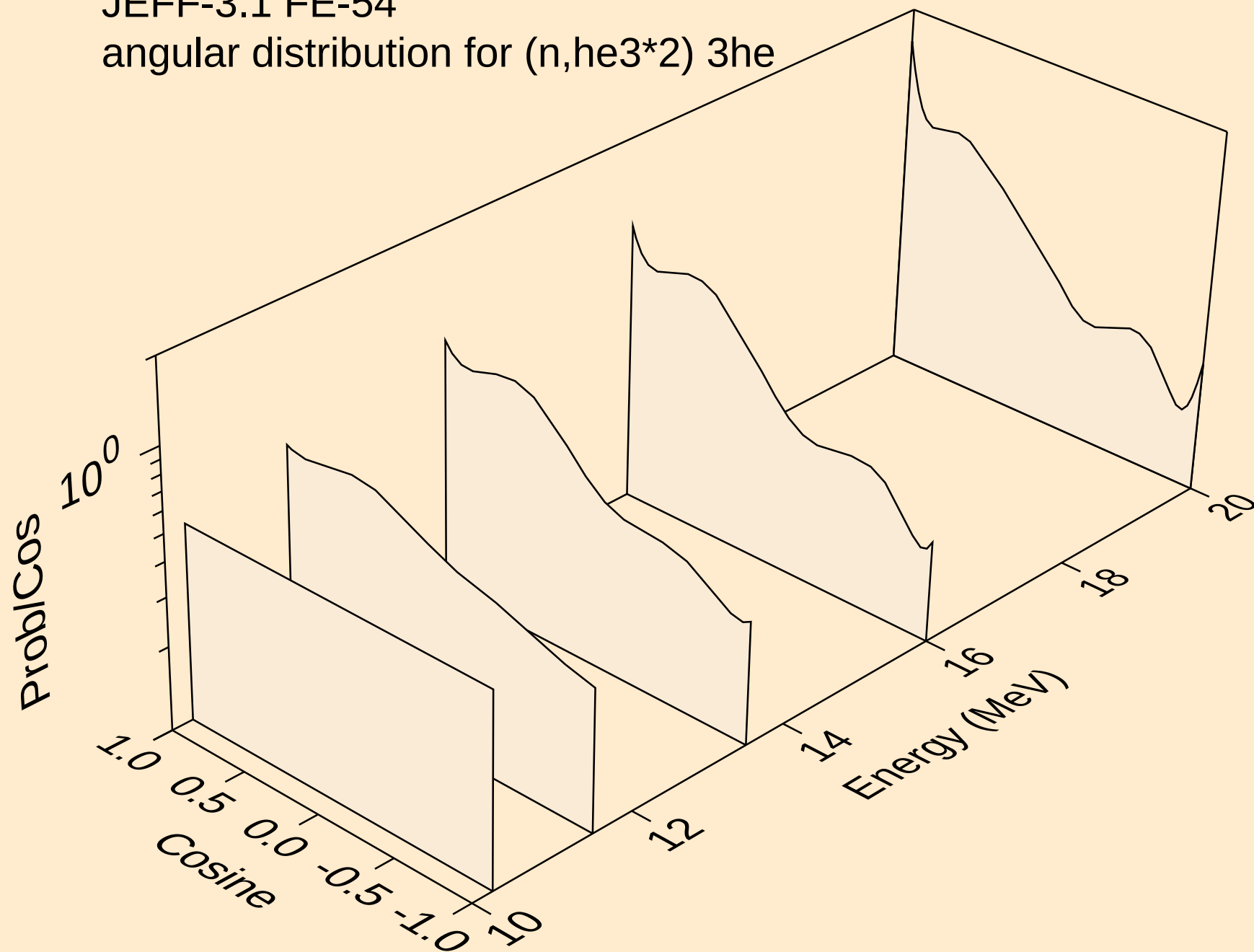
JEFF-3.1 FE-54

angular distribution for (n,he3*1) 3he



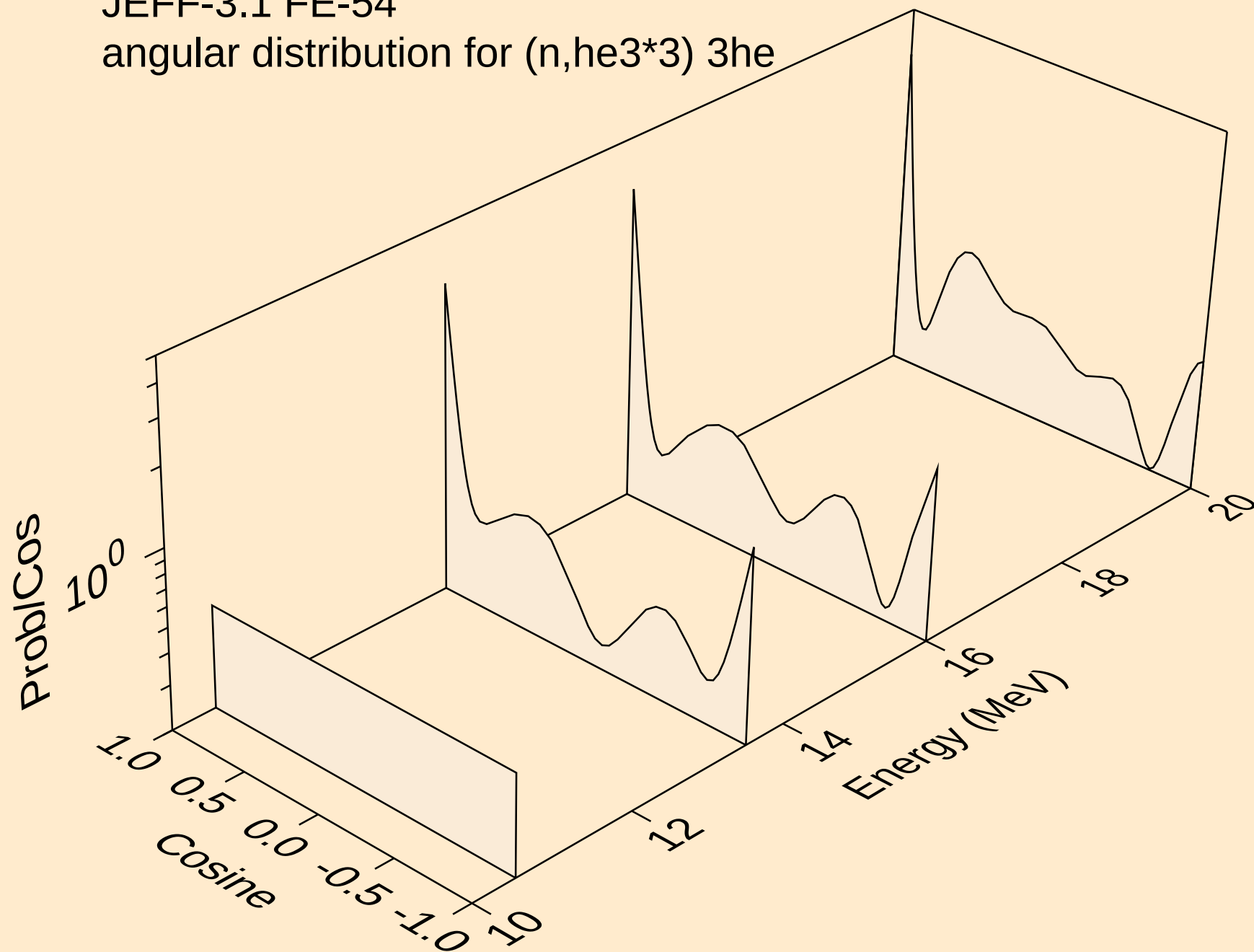
JEFF-3.1 FE-54

angular distribution for (n,he3*2) 3he



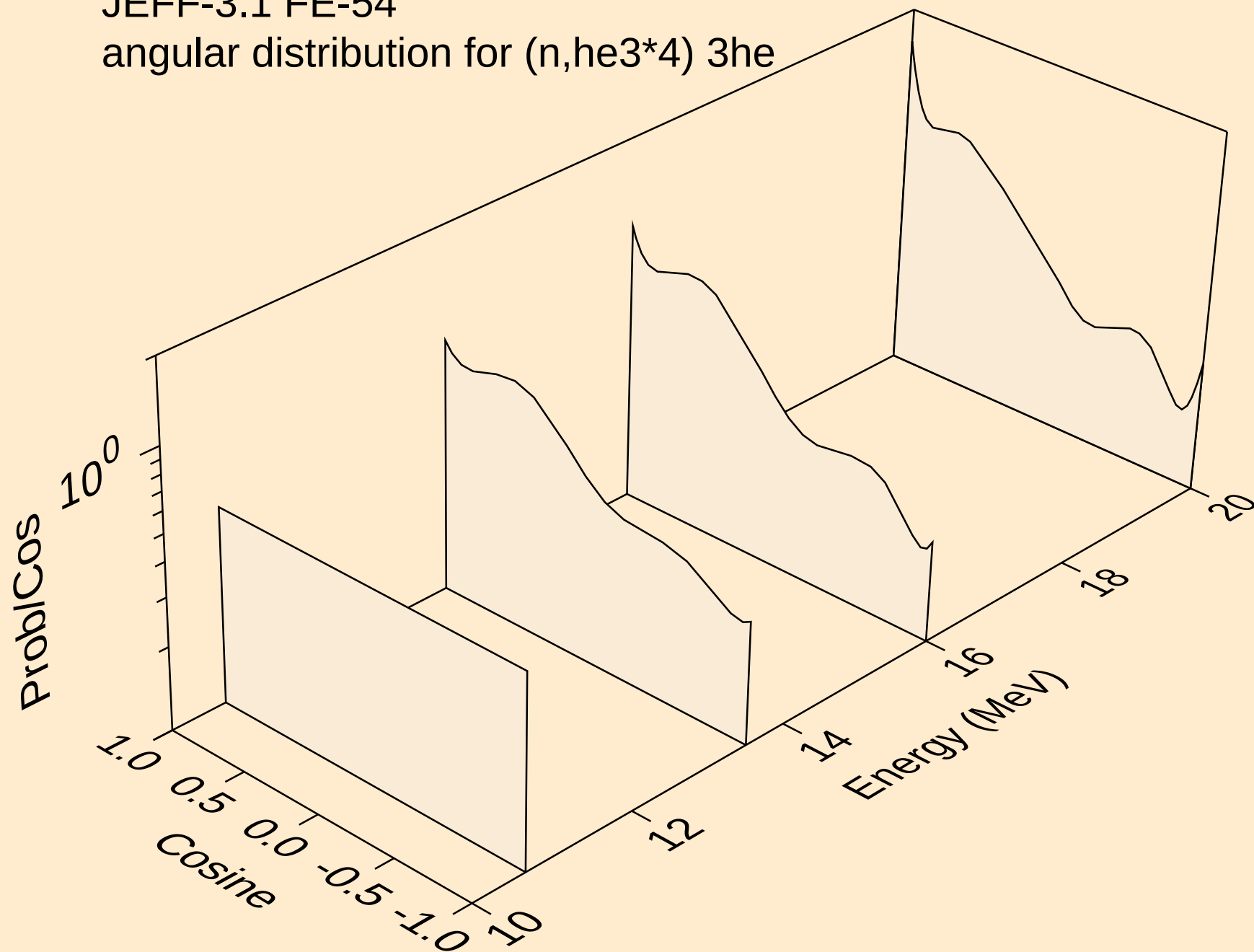
JEFF-3.1 FE-54

angular distribution for (n,he3*3) 3he



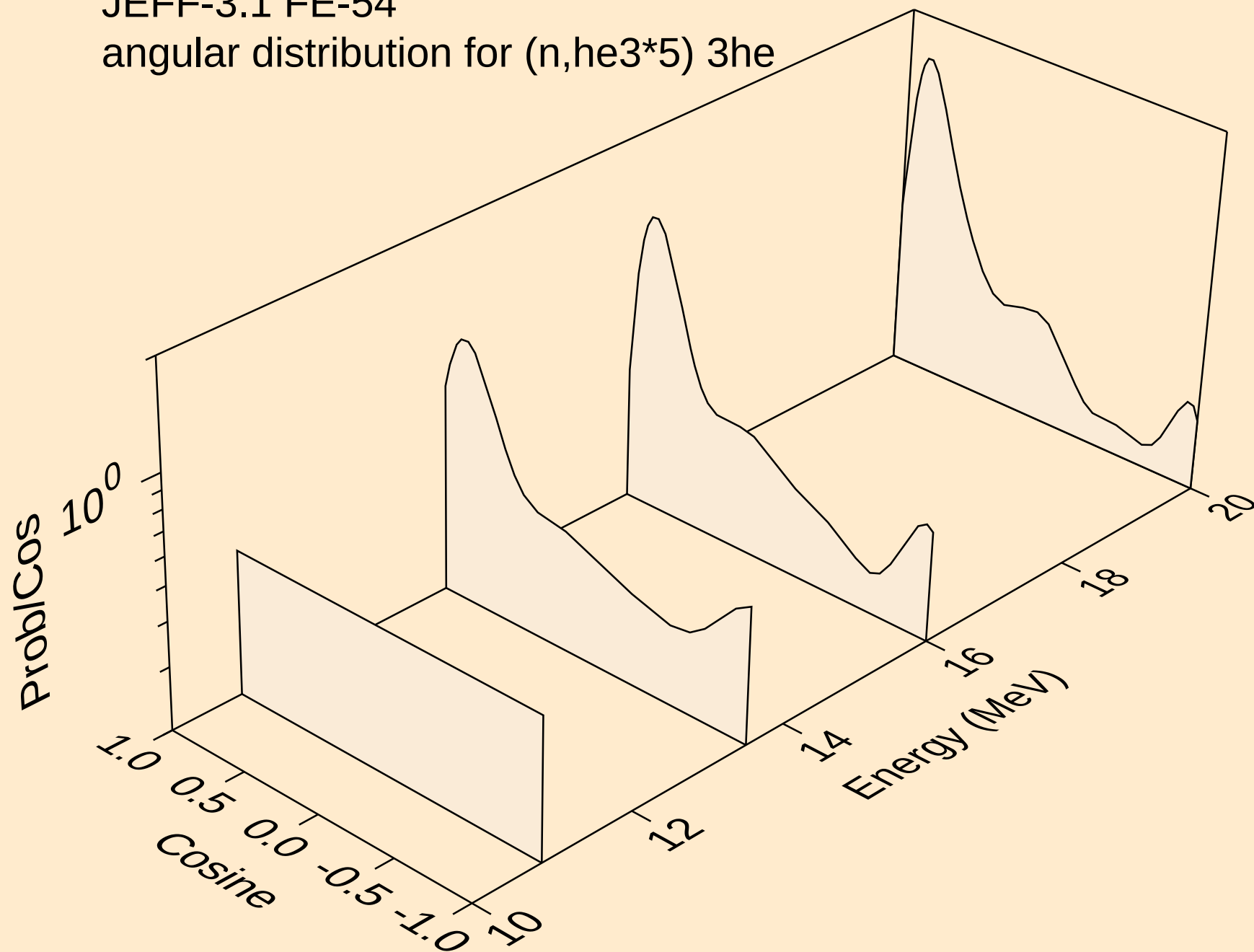
JEFF-3.1 FE-54

angular distribution for (n,he3*4) 3he

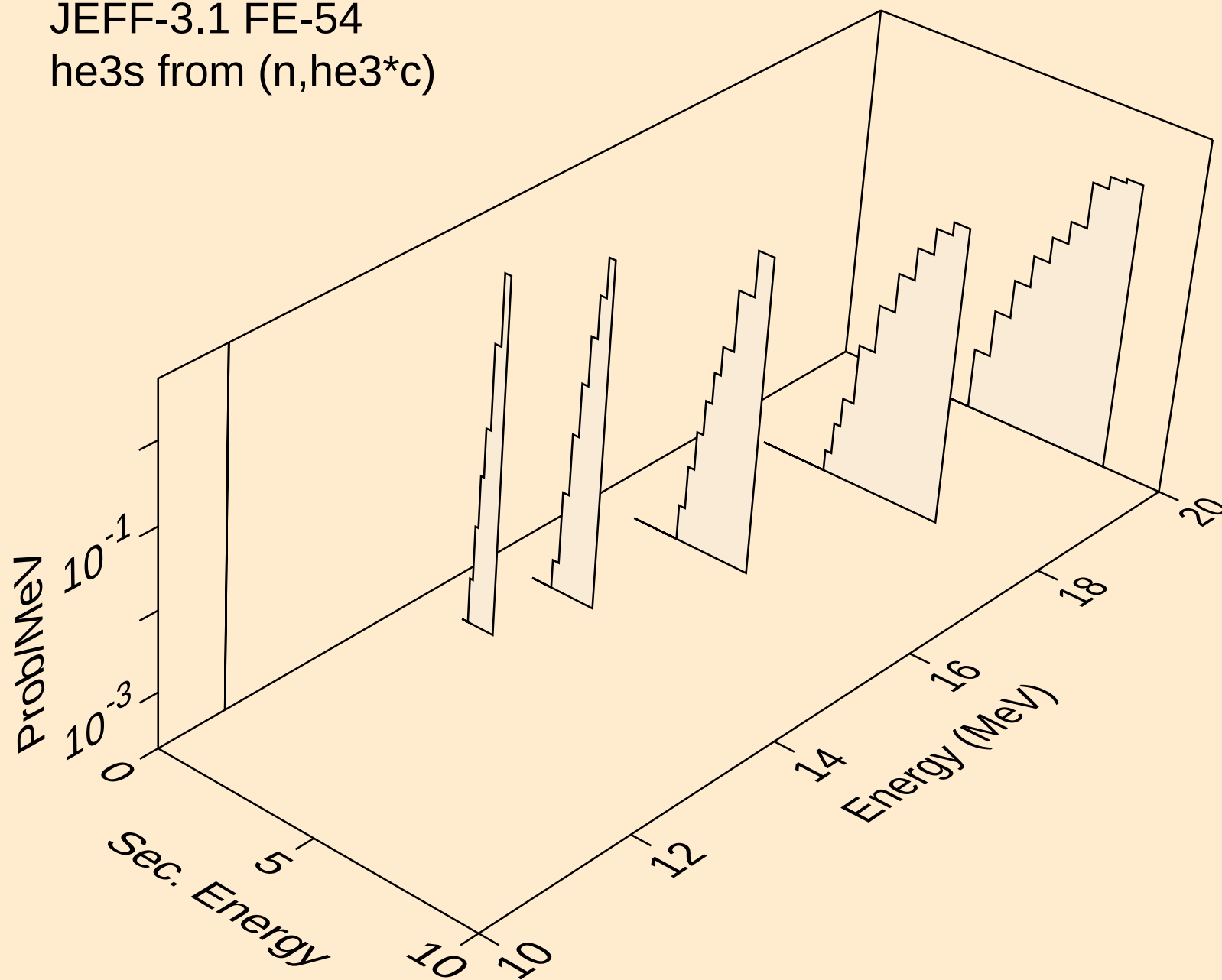


JEFF-3.1 FE-54

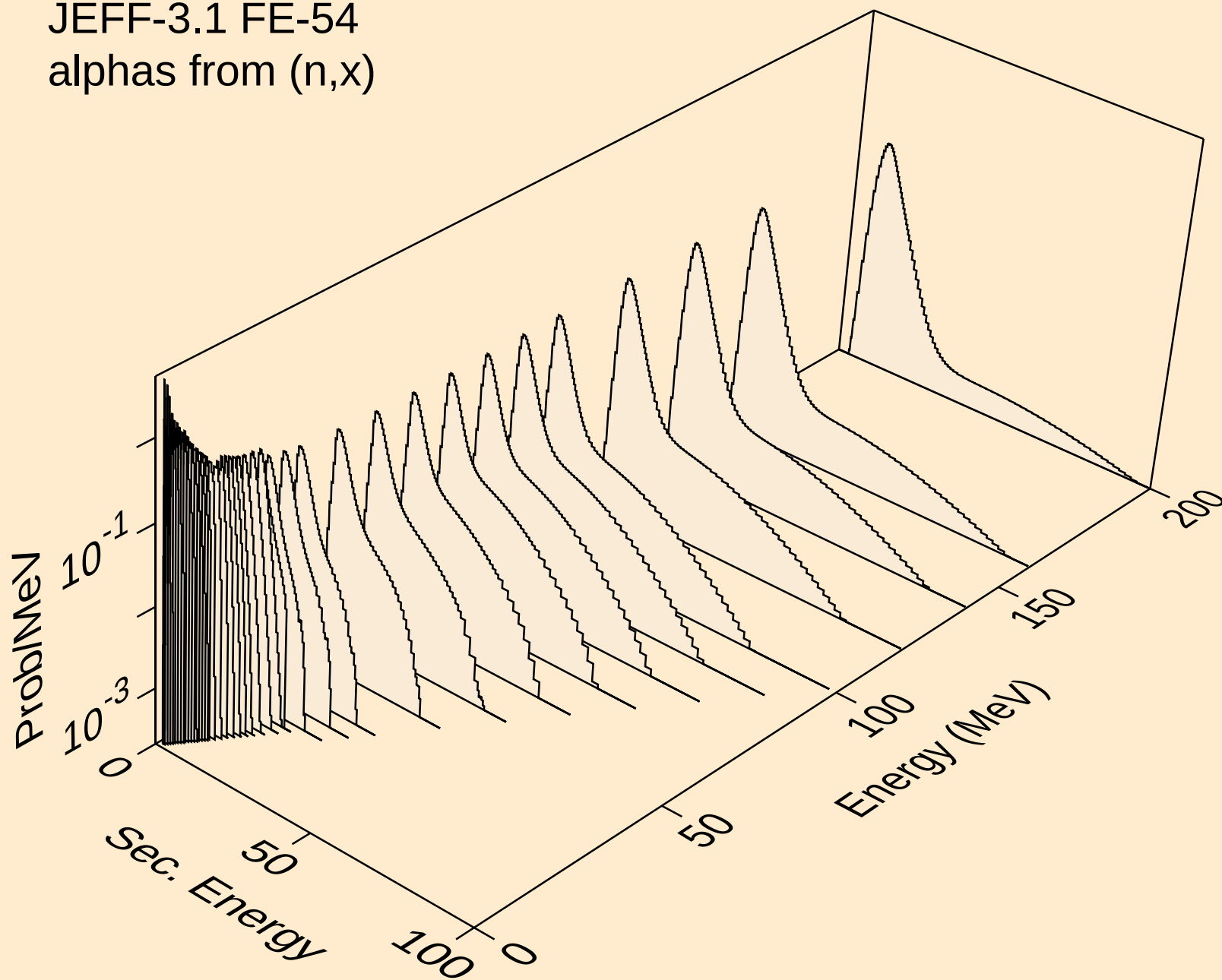
angular distribution for (n,he3*5) 3he



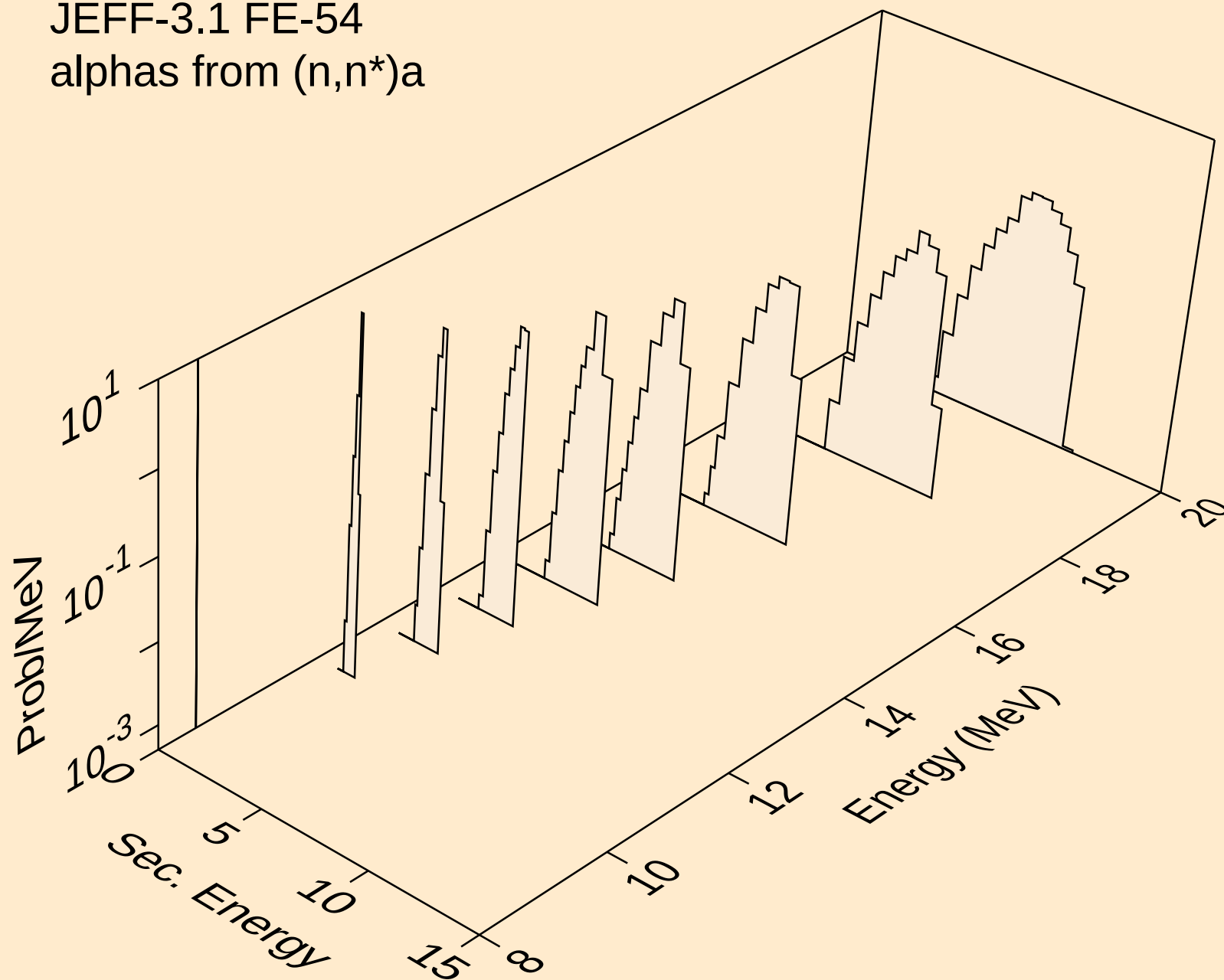
JEFF-3.1 FE-54
he3s from (n,he3*c)



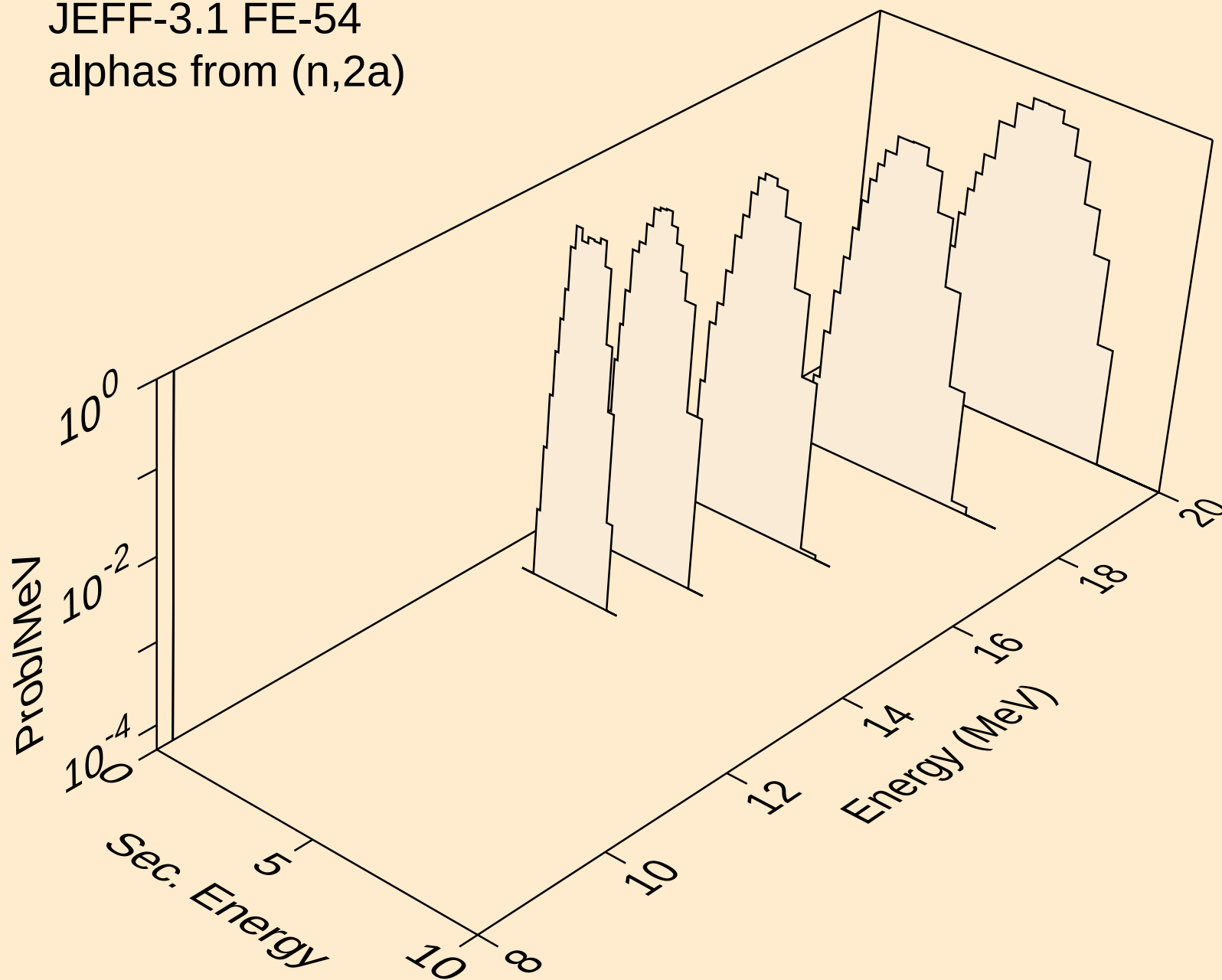
JEFF-3.1 FE-54
alphas from (n,x)



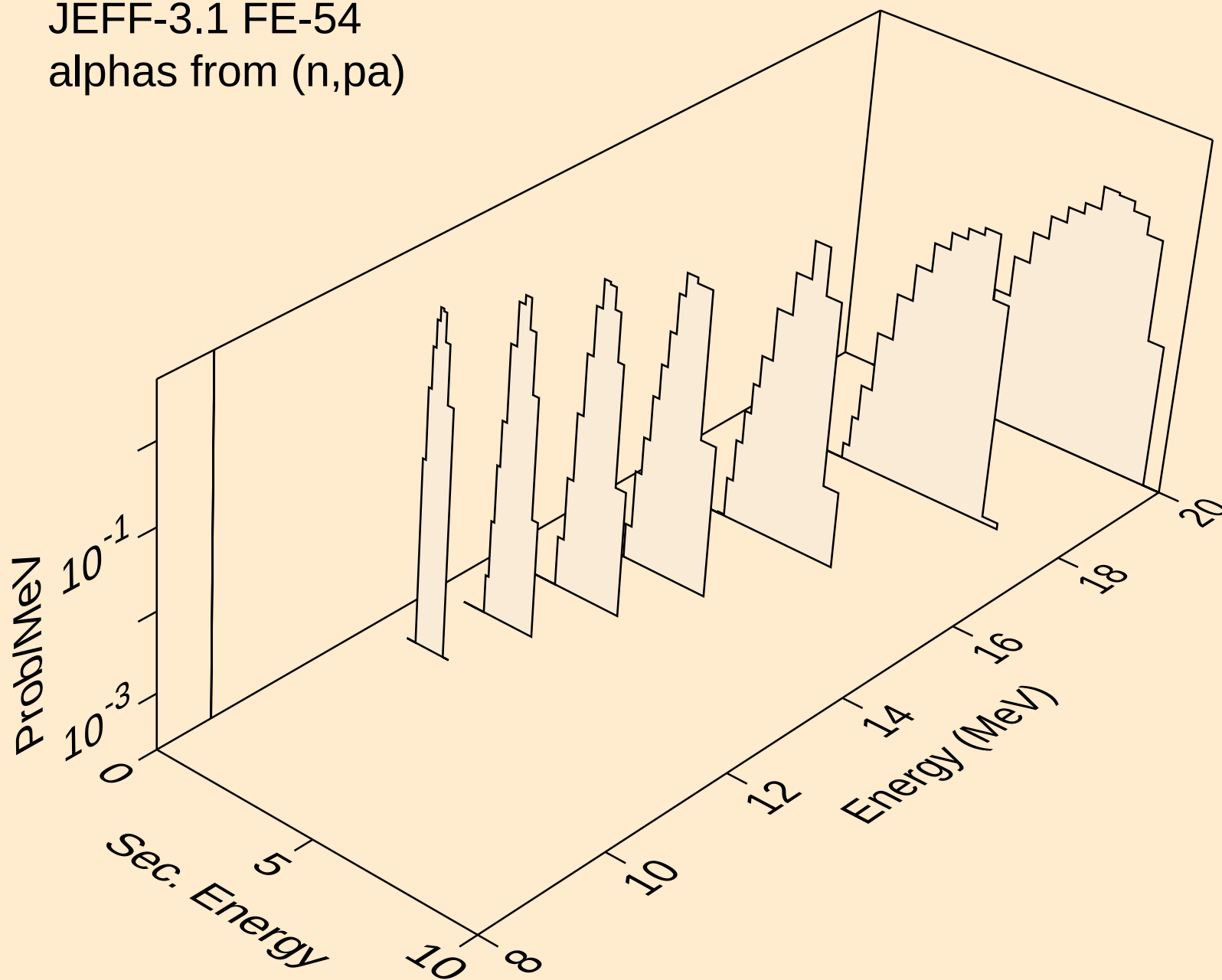
JEFF-3.1 FE-54
alphas from (n,n*)a



JEFF-3.1 FE-54
alphas from (n,2a)

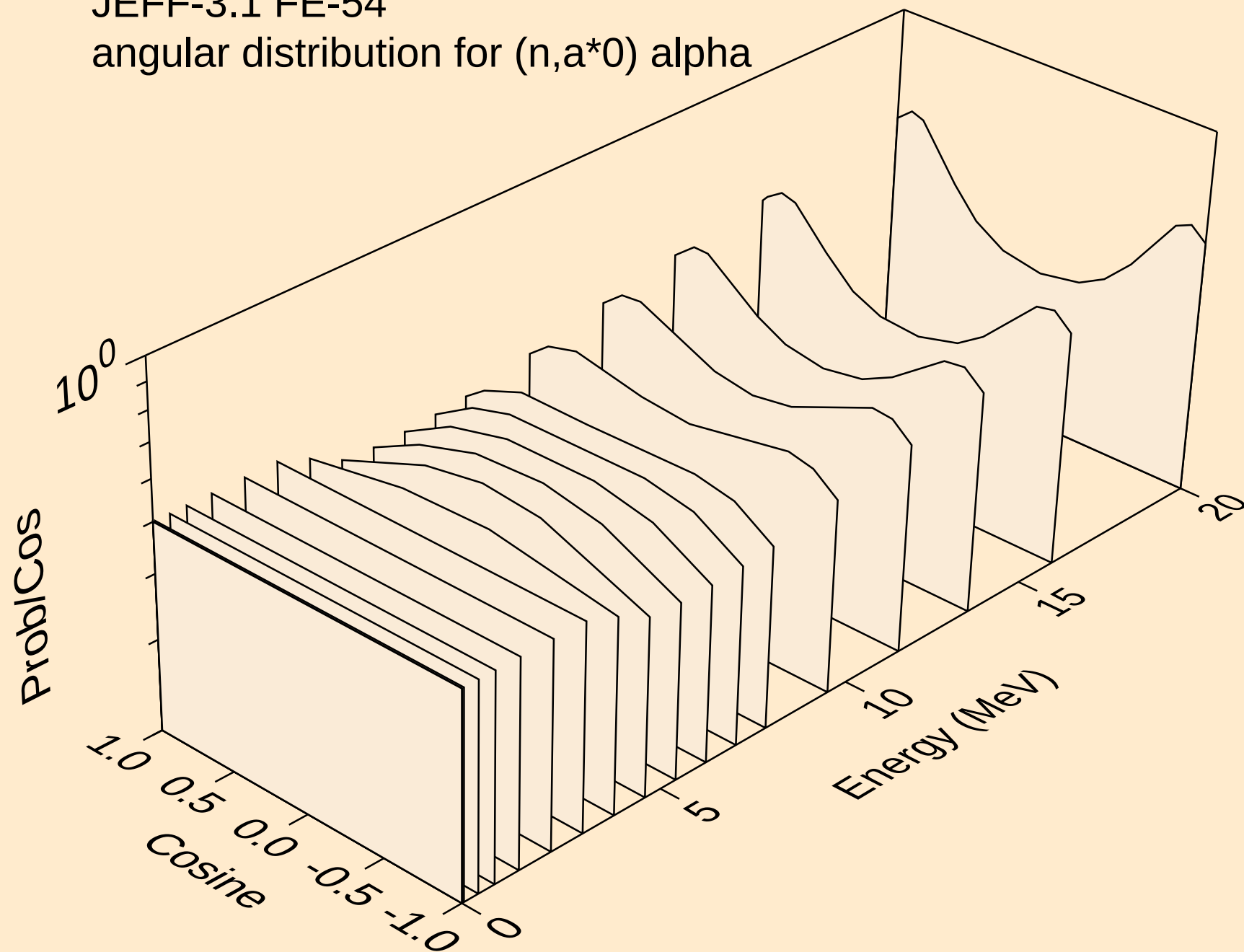


JEFF-3.1 FE-54
alphas from (n,pa)

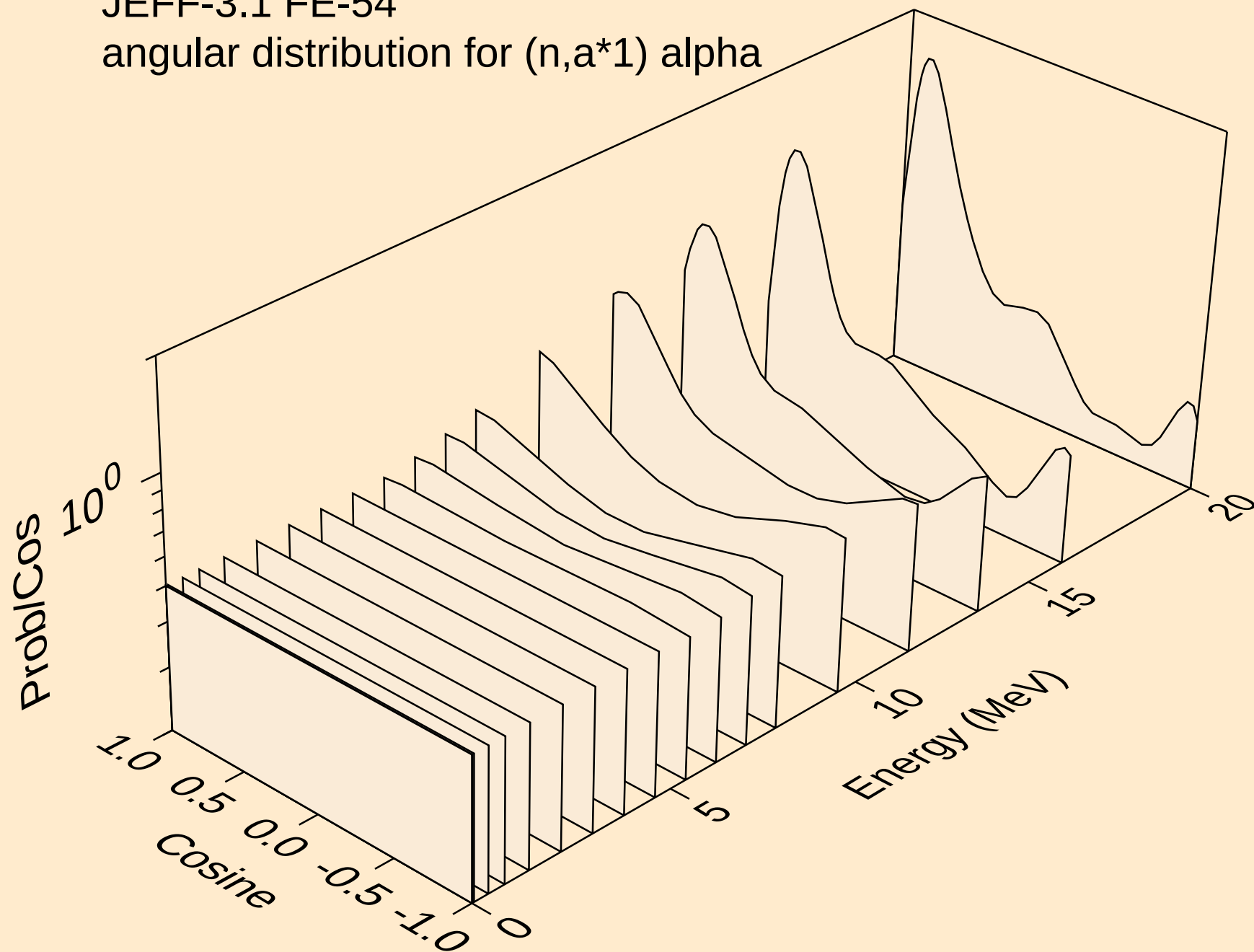


JEFF-3.1 FE-54

angular distribution for (n, α) alpha

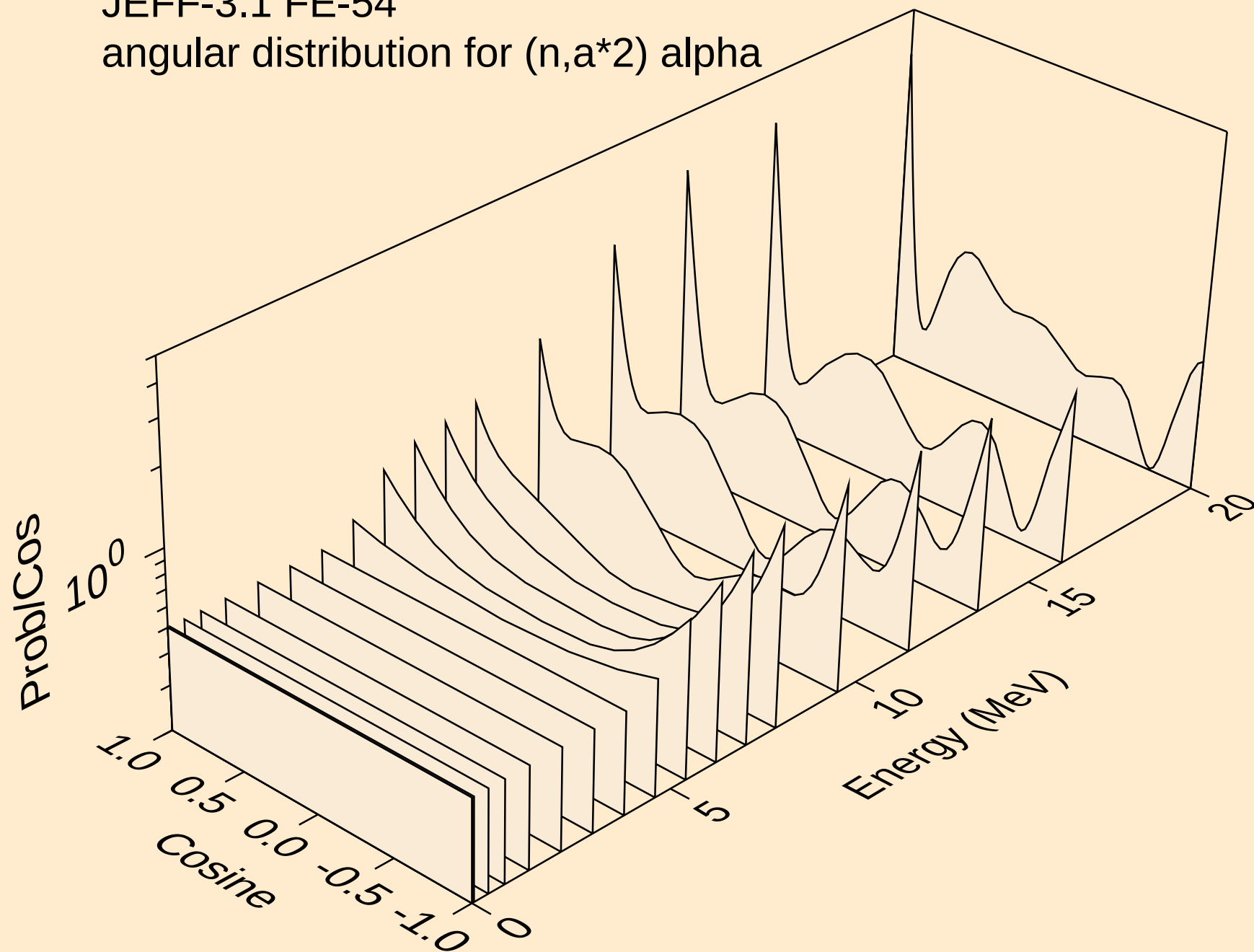


JEFF-3.1 FE-54
angular distribution for (n, α *1) alpha

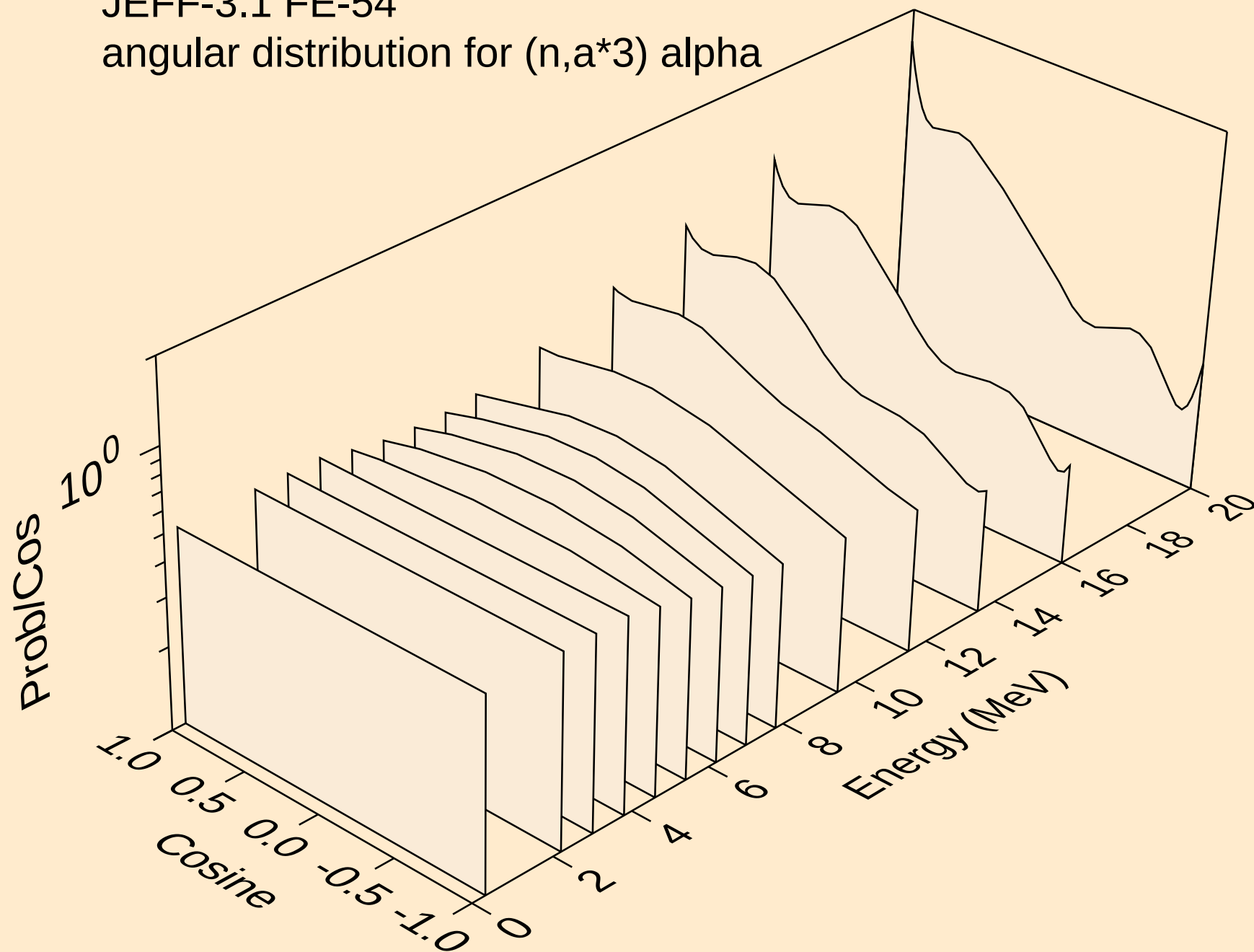


JEFF-3.1 FE-54

angular distribution for (n, α) alpha

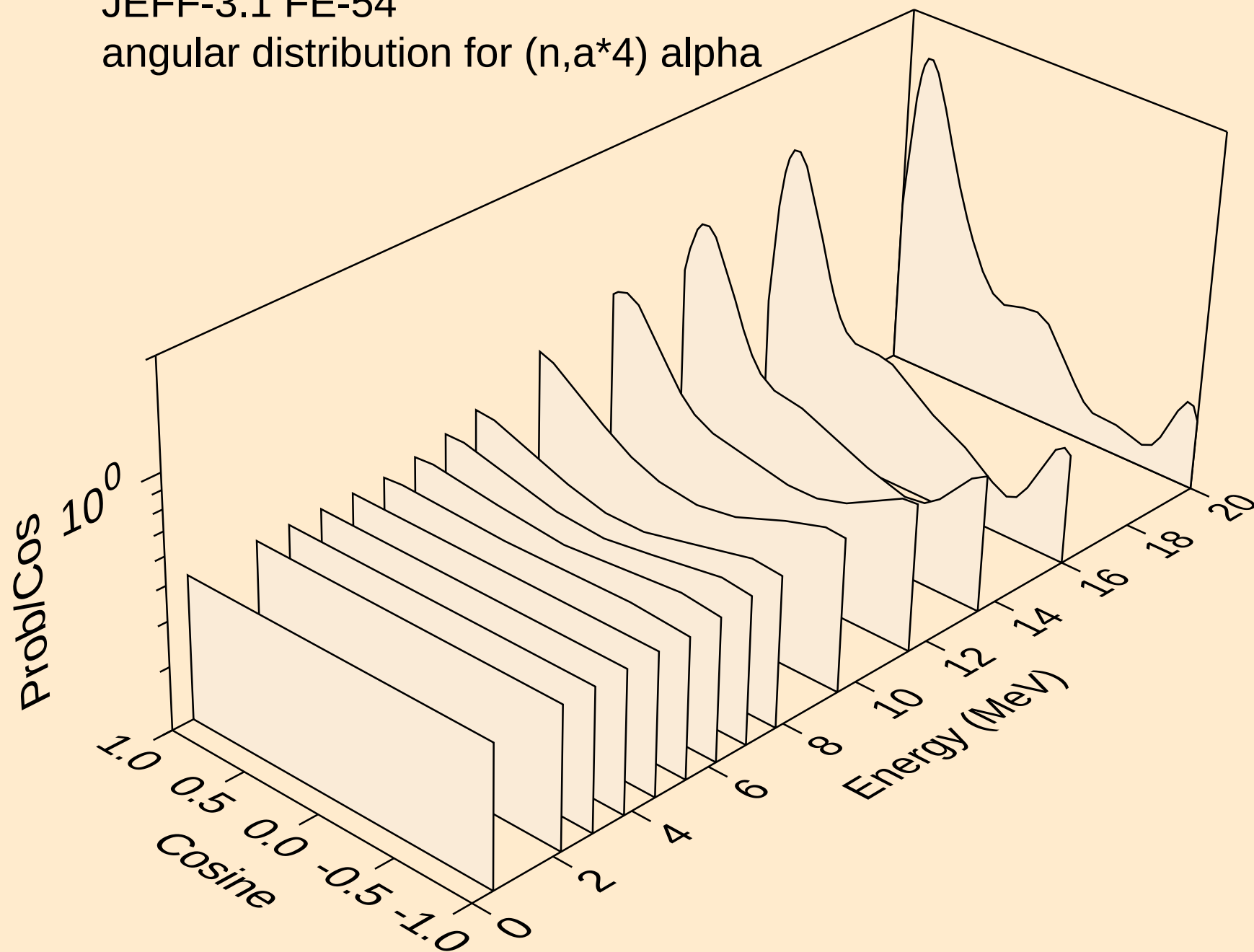


JEFF-3.1 FE-54
angular distribution for (n, α^3) alpha

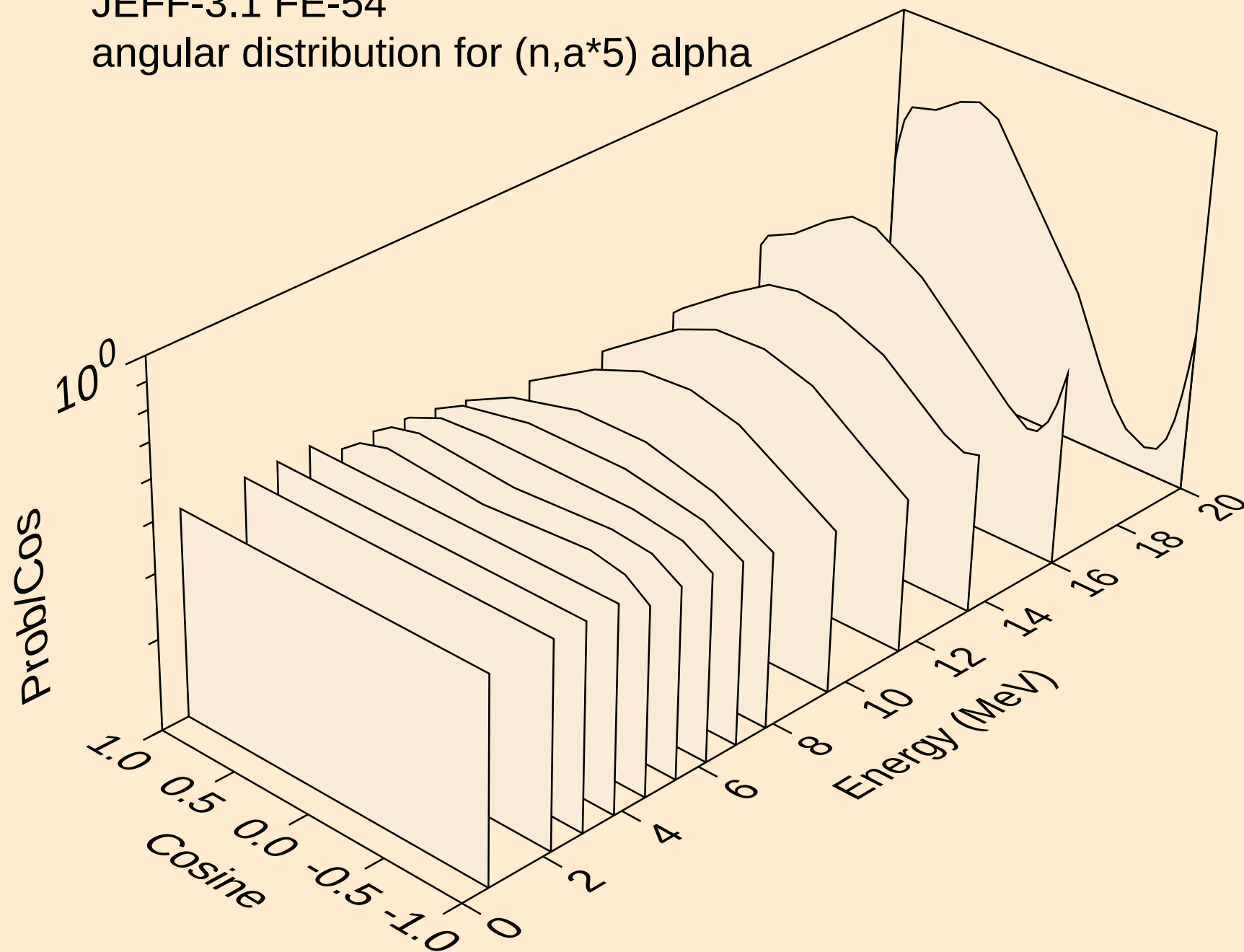


JEFF-3.1 FE-54

angular distribution for (n, α *4) alpha

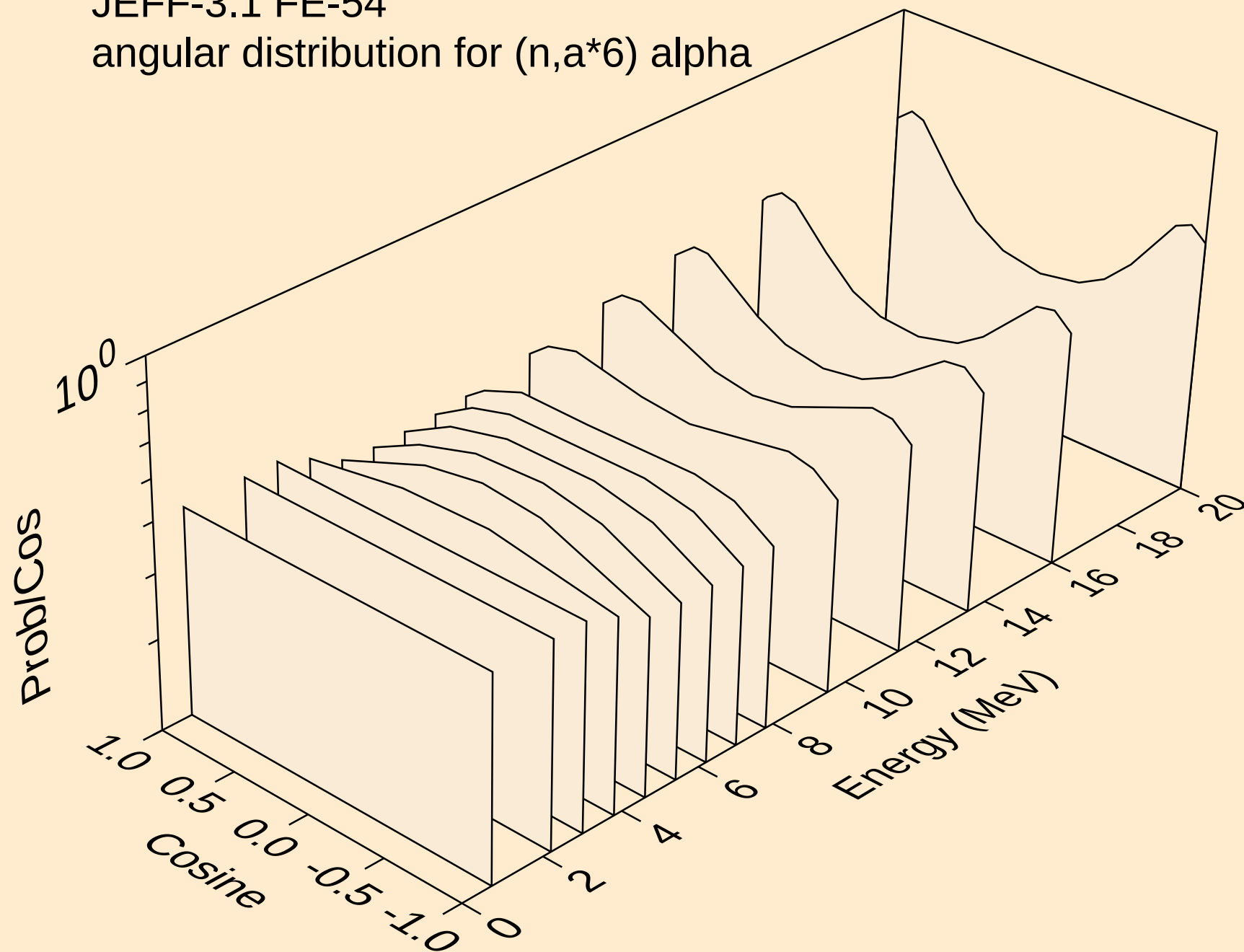


JEFF-3.1 FE-54
angular distribution for (n, α *5) alpha



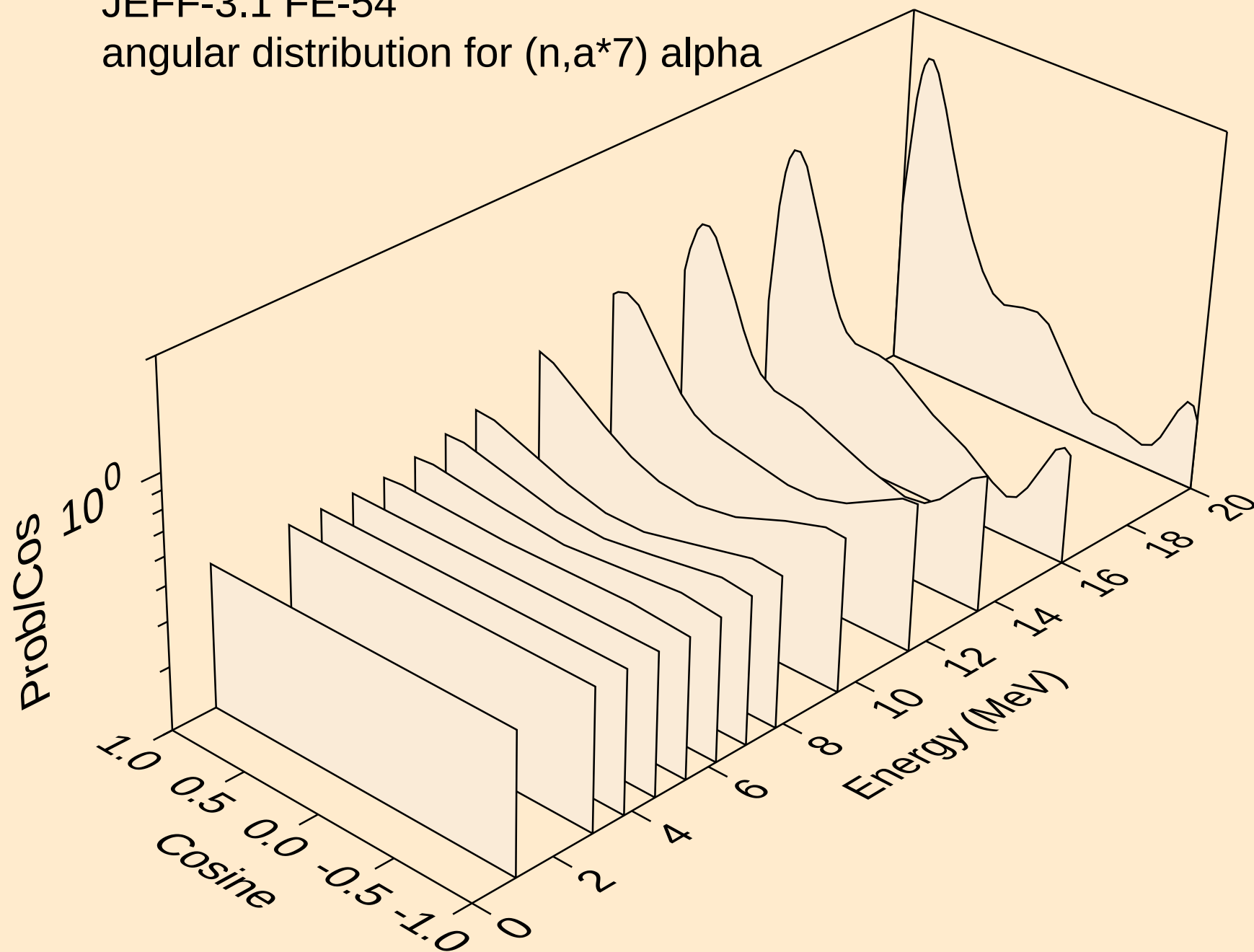
JEFF-3.1 FE-54

angular distribution for (n, α *6) alpha



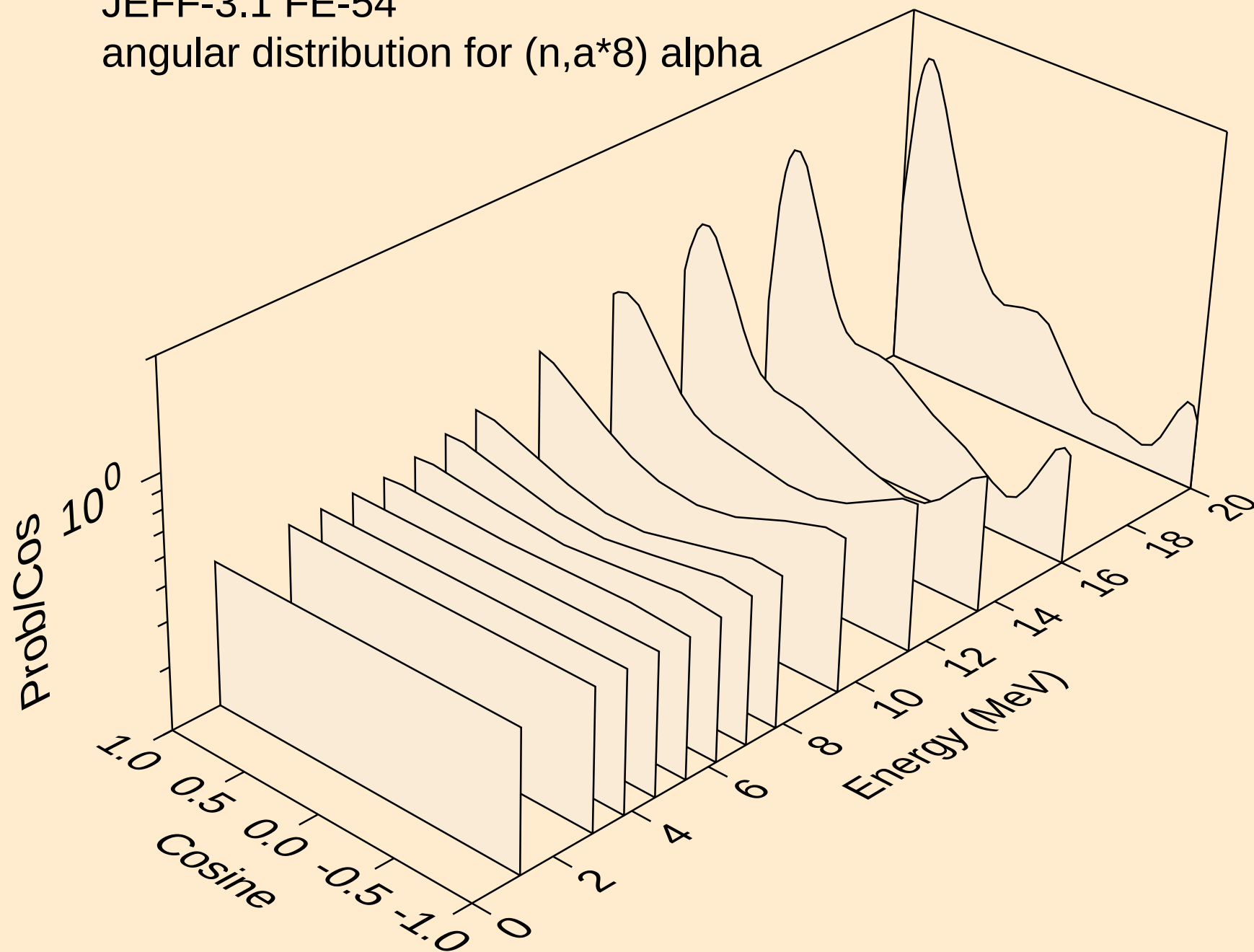
JEFF-3.1 FE-54

angular distribution for (n, α *7) alpha

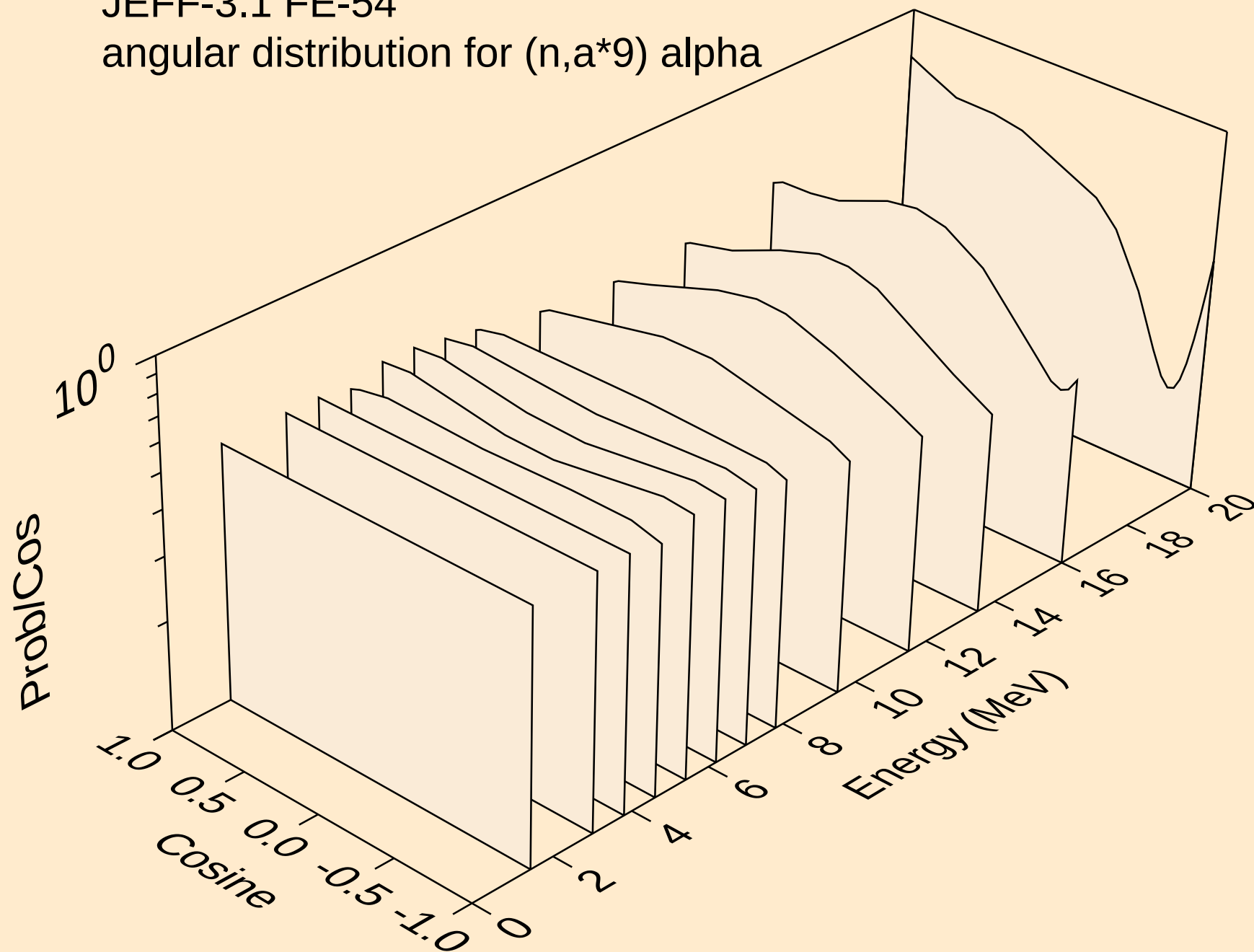


JEFF-3.1 FE-54

angular distribution for (n, α *8) alpha

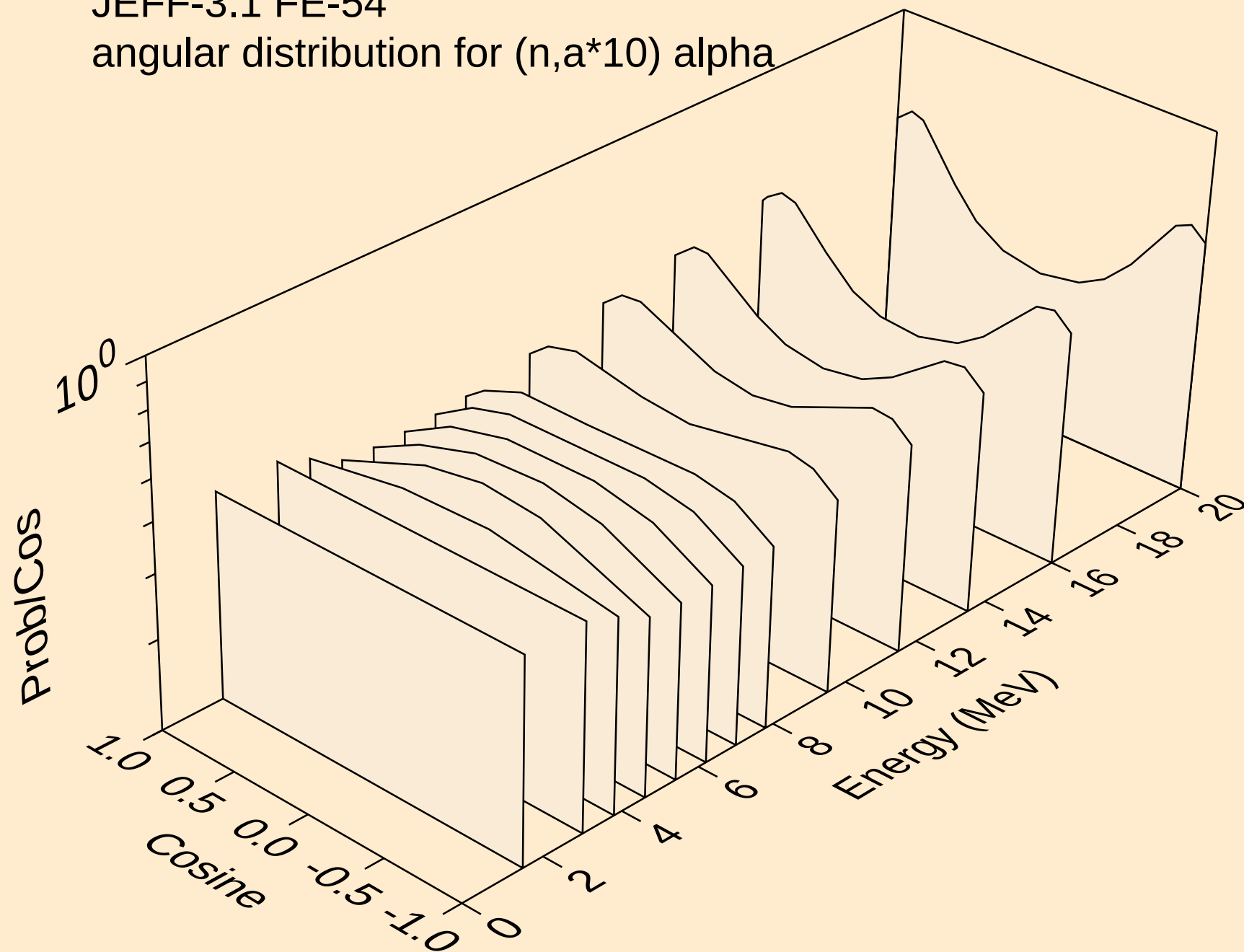


JEFF-3.1 FE-54
angular distribution for (n, α 9) alpha



JEFF-3.1 FE-54

angular distribution for (n, α *10) alpha



JEFF-3.1 FE-54
alphas from (n,a*c)

