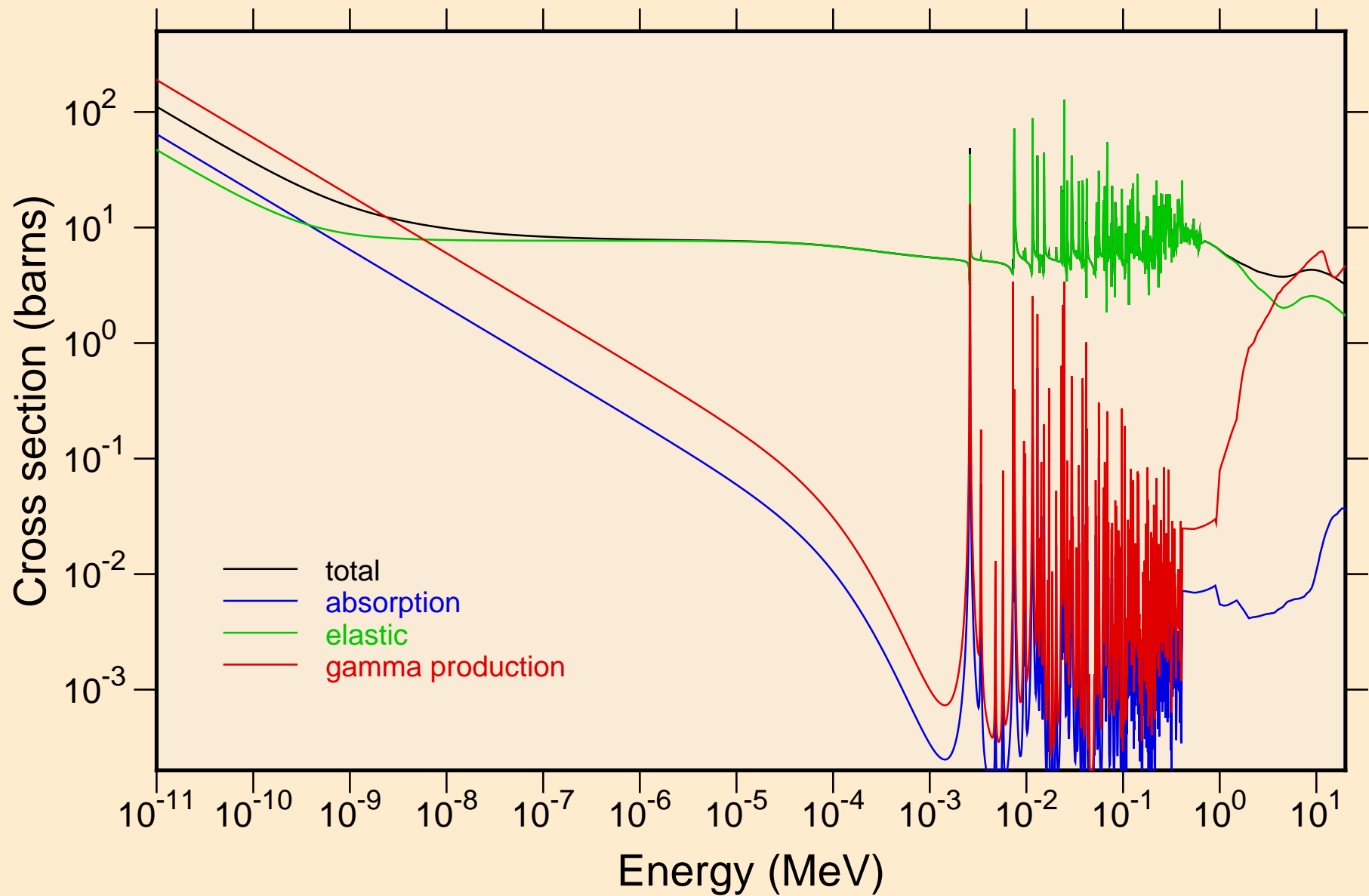
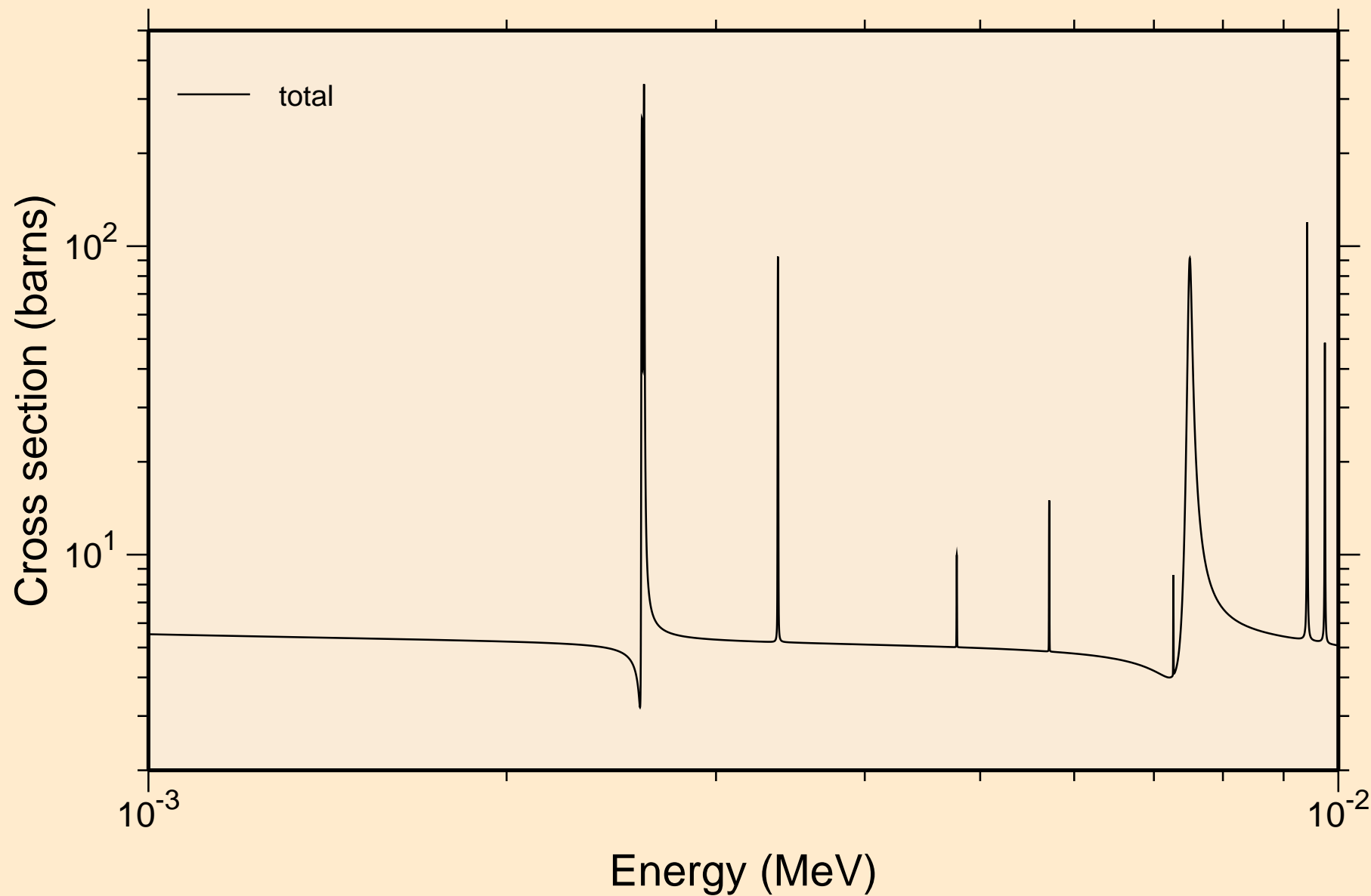


# ENDF/B-VII Y-89

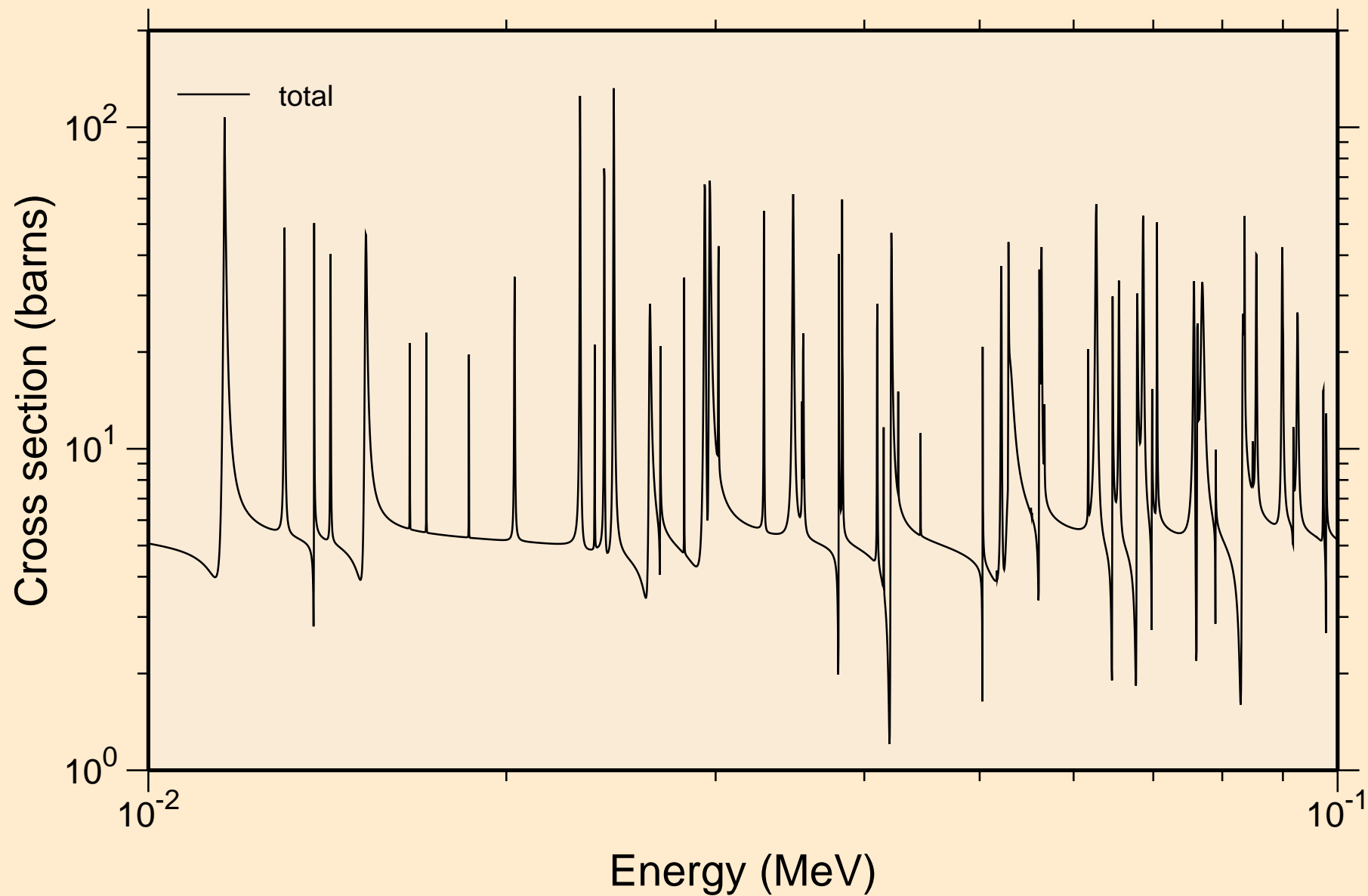
## Principal cross sections



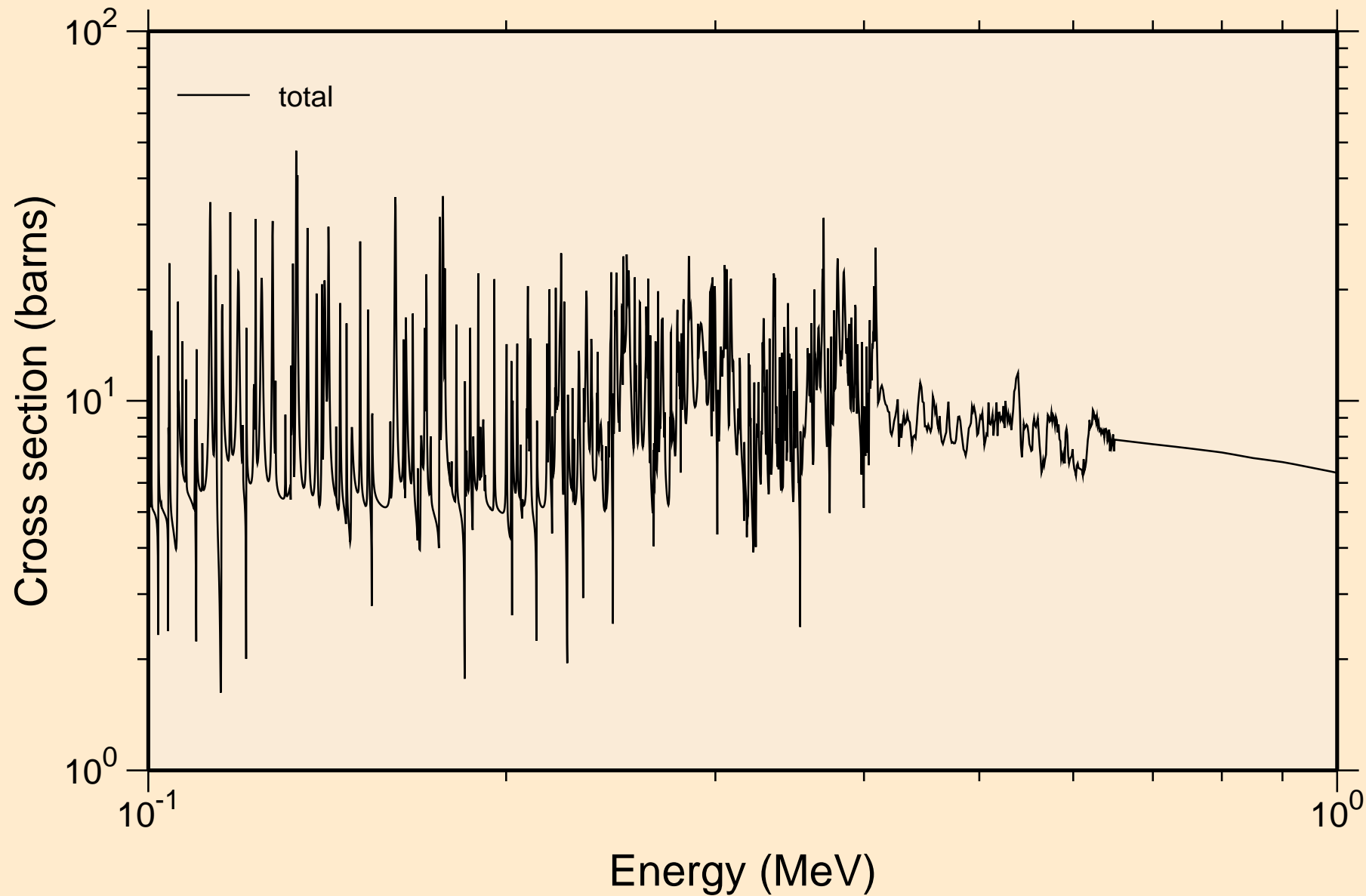
ENDF/B-VII Y-89  
resonance total cross section



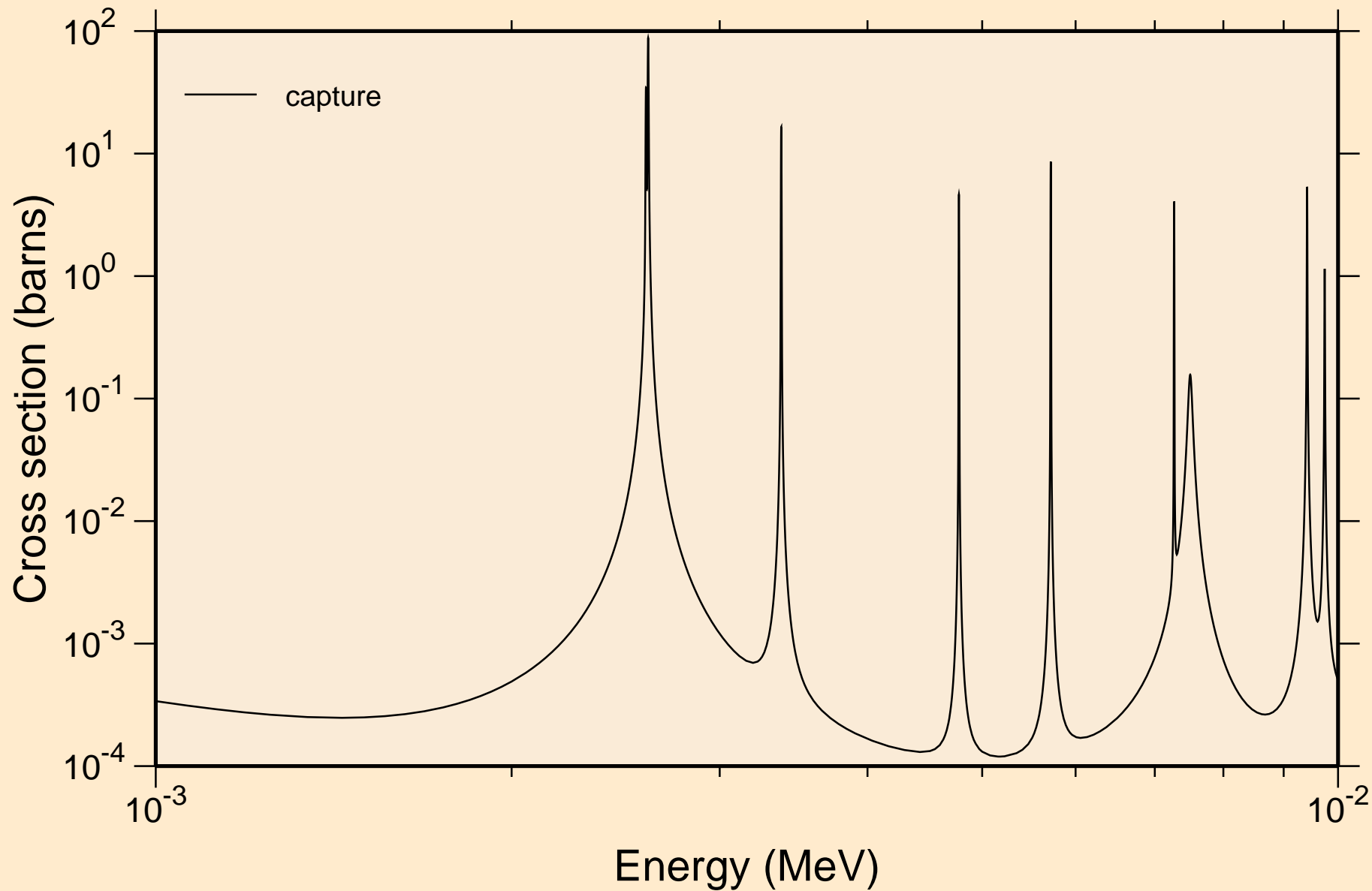
ENDF/B-VII Y-89  
resonance total cross section



ENDF/B-VII Y-89  
resonance total cross section

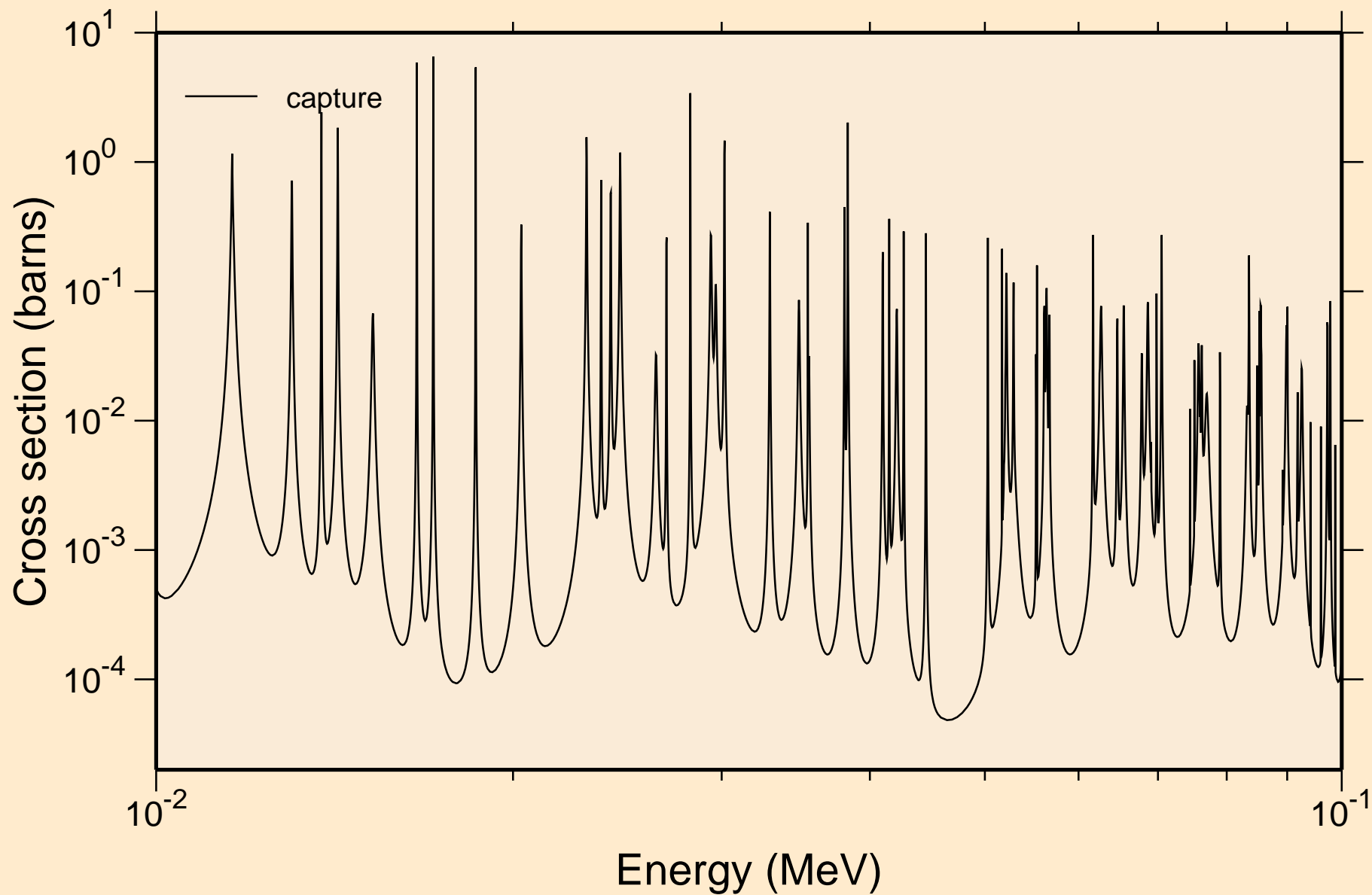


ENDF/B-VII Y-89  
resonance absorption cross sections



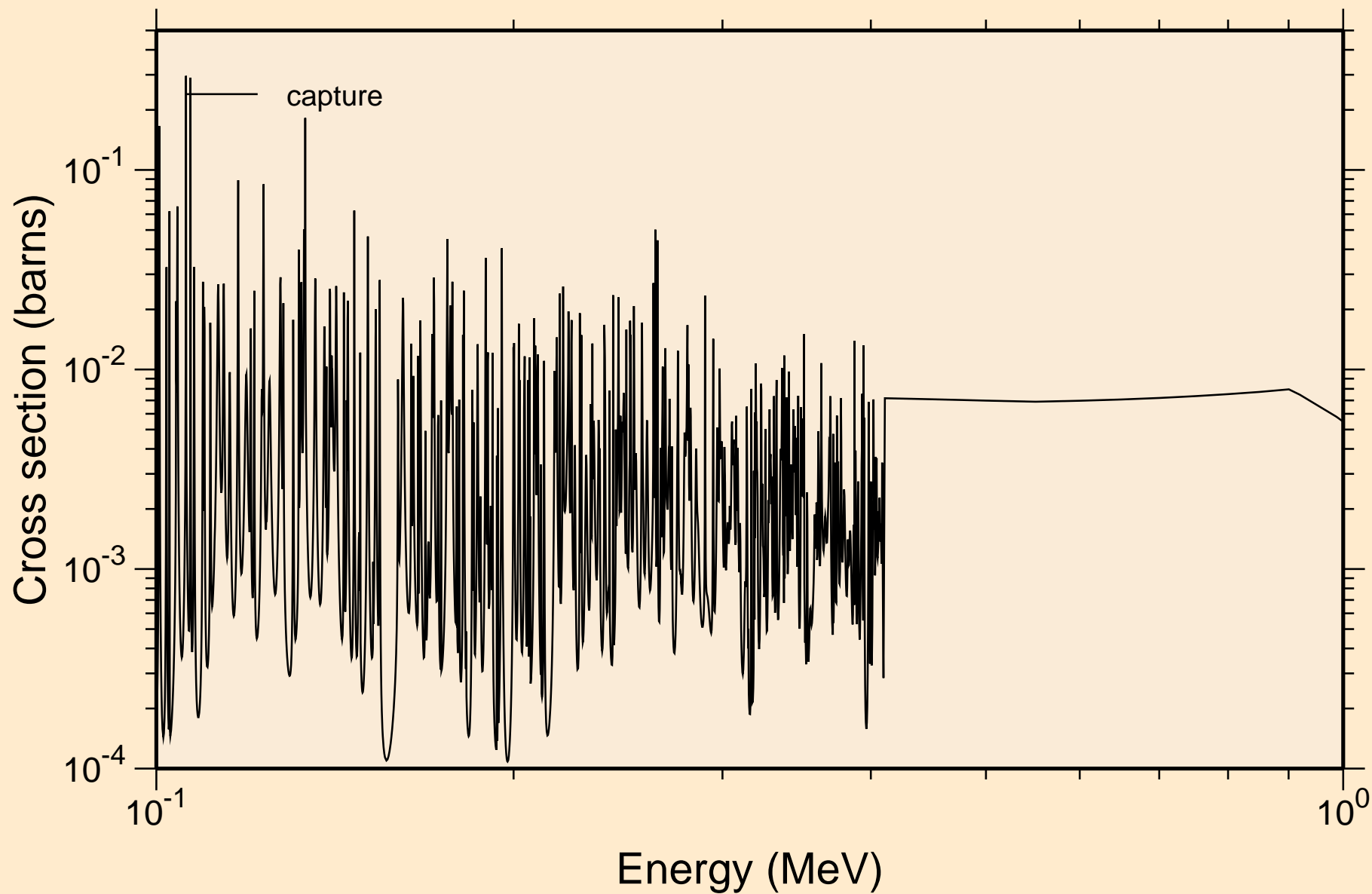
ENDF/B-VII Y-89

resonance absorption cross sections



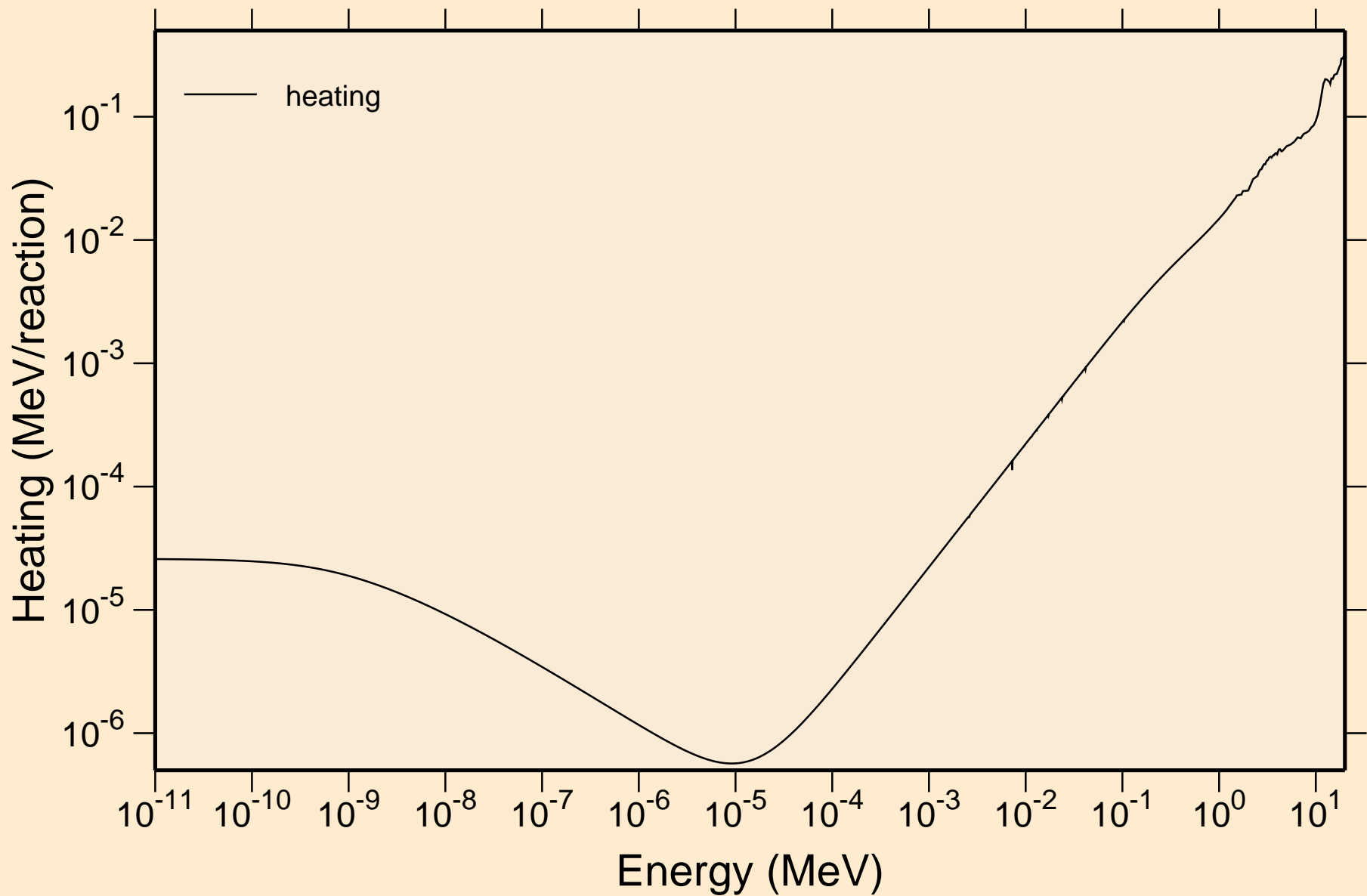
ENDF/B-VII Y-89

resonance absorption cross sections



ENDF/B-VII Y-89

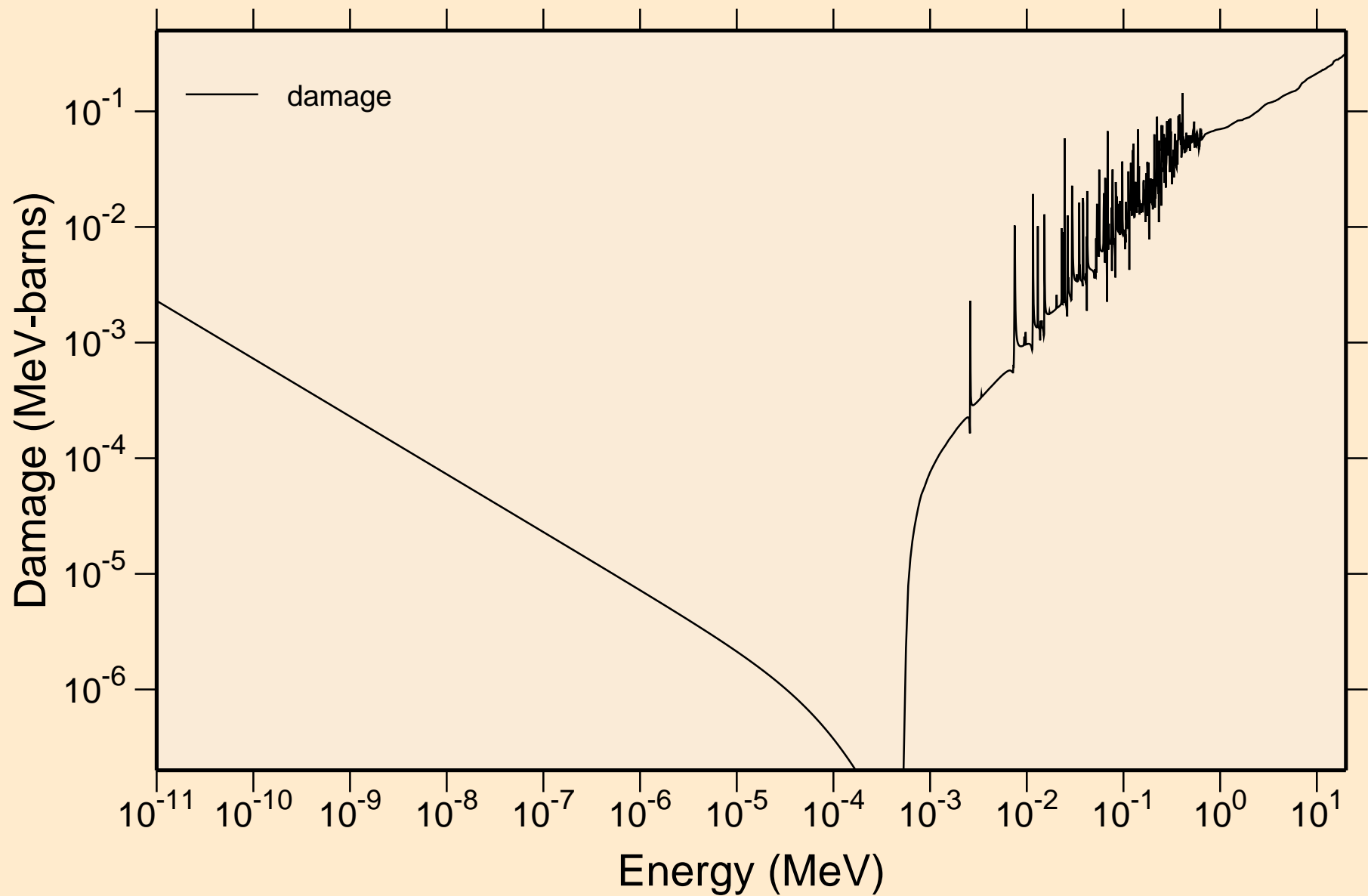
Heating



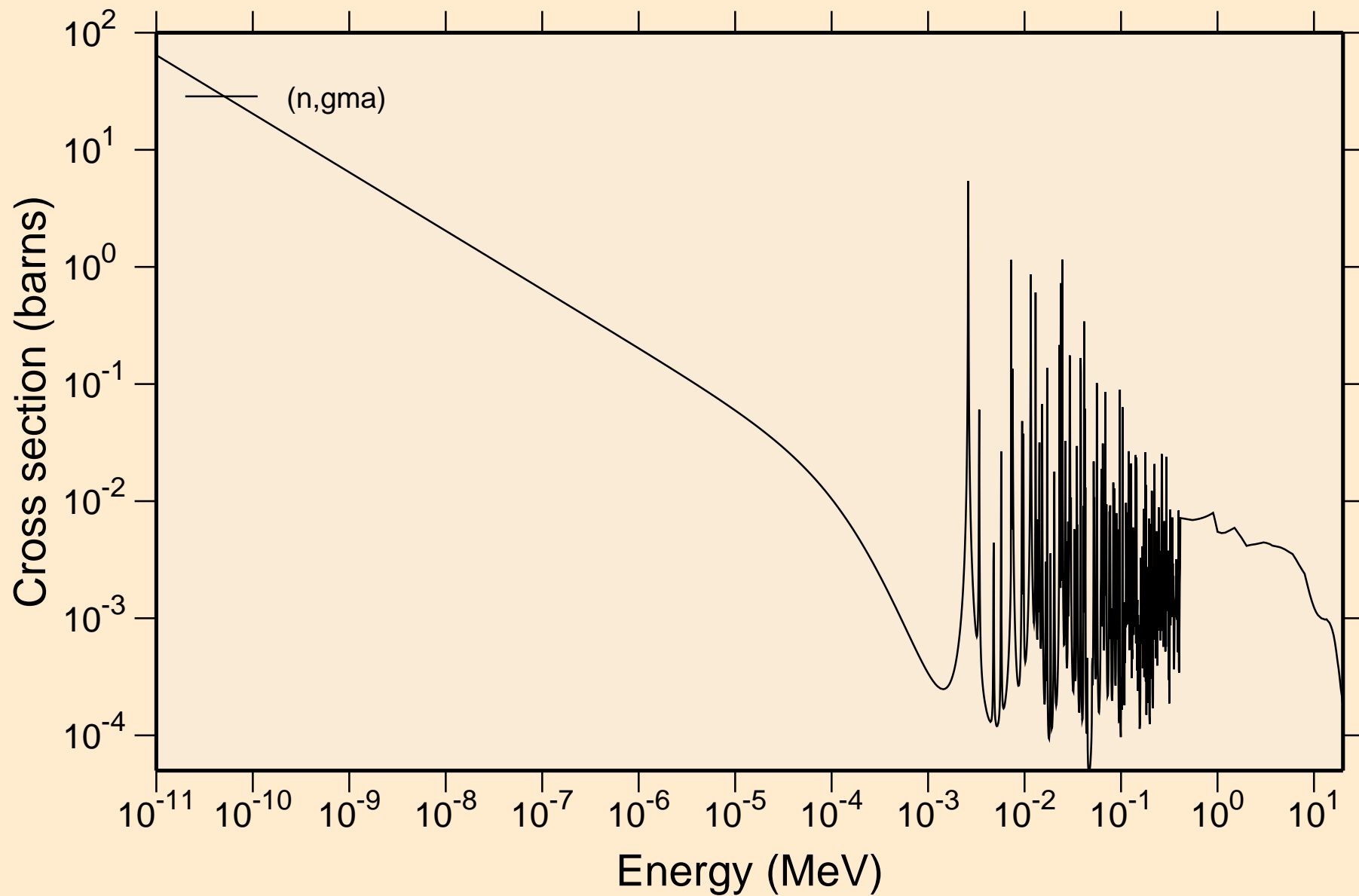


ENDF/B-VII Y-89

Damage

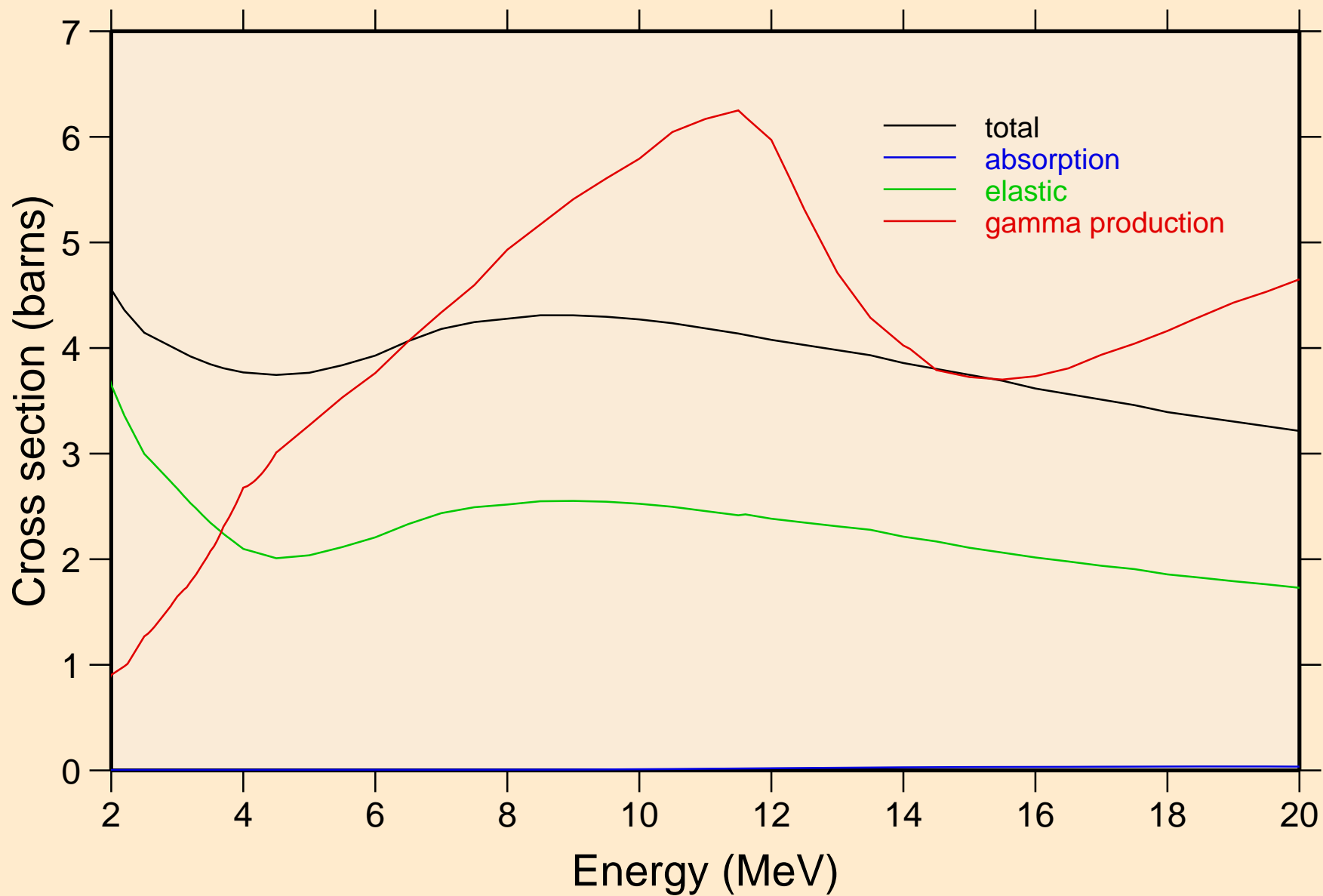


ENDF/B-VII Y-89  
Non-threshold reactions



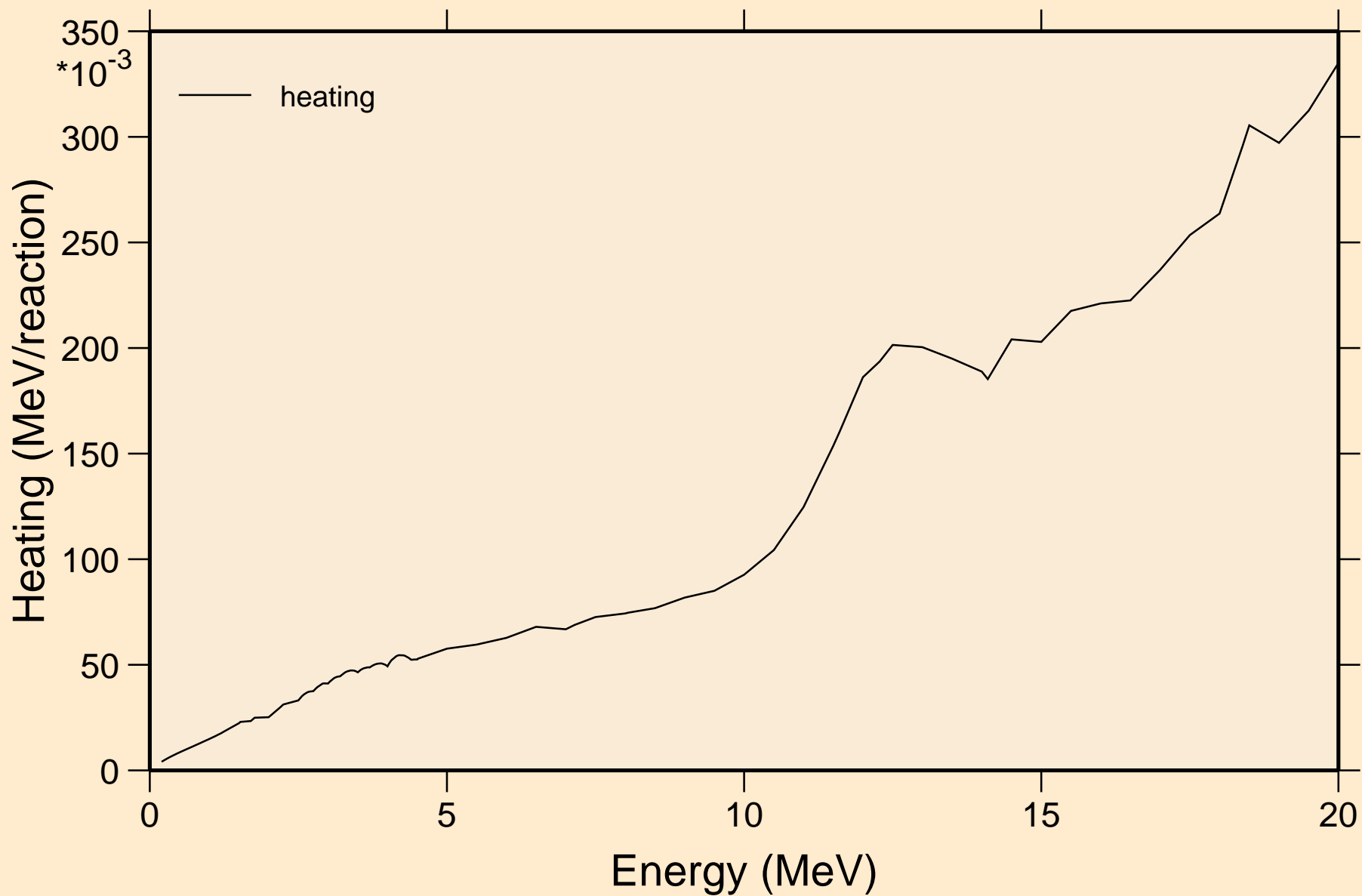
# ENDF/B-VII Y-89

## Principal cross sections



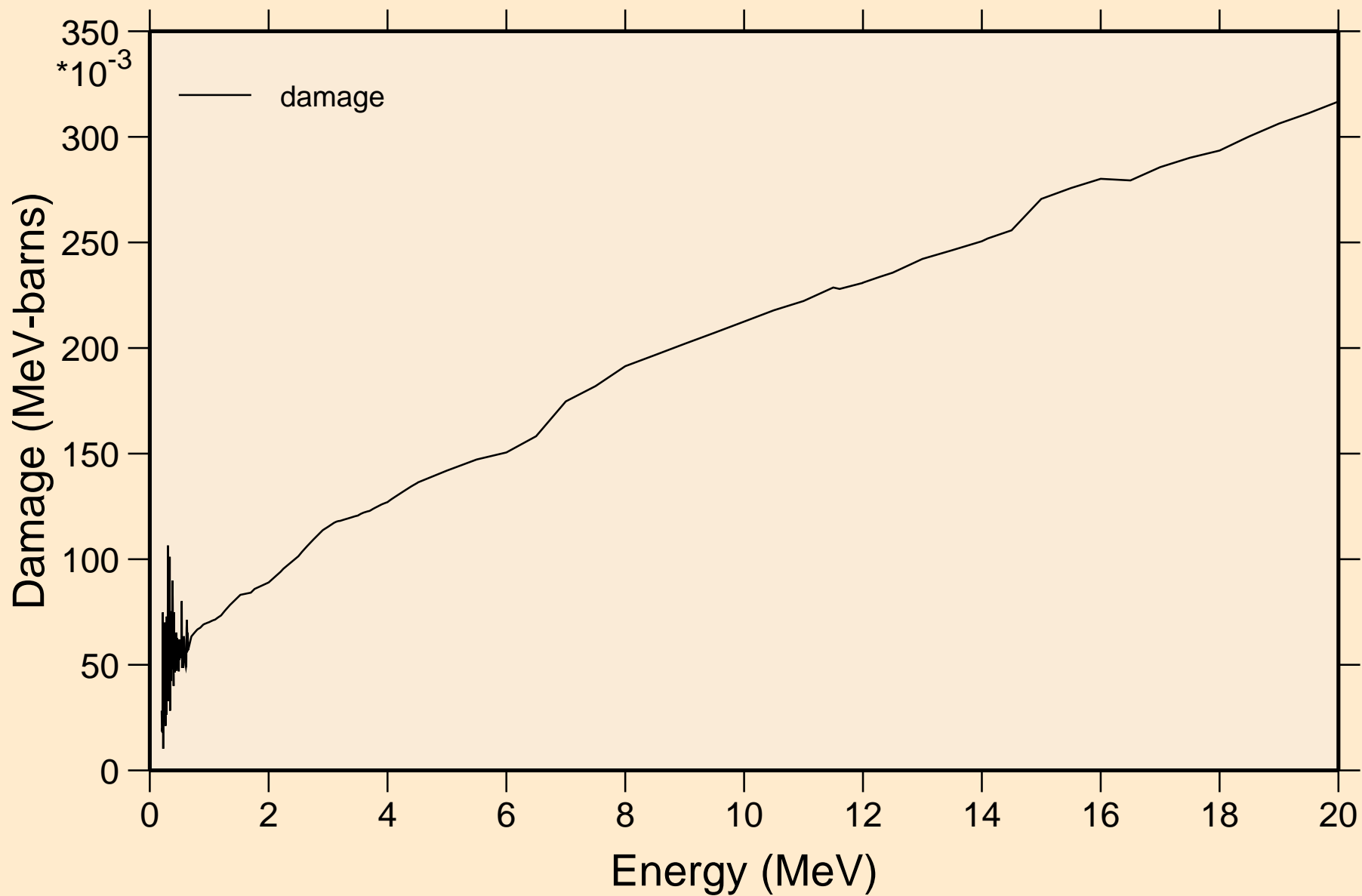
# ENDF/B-VII Y-89

## Heating

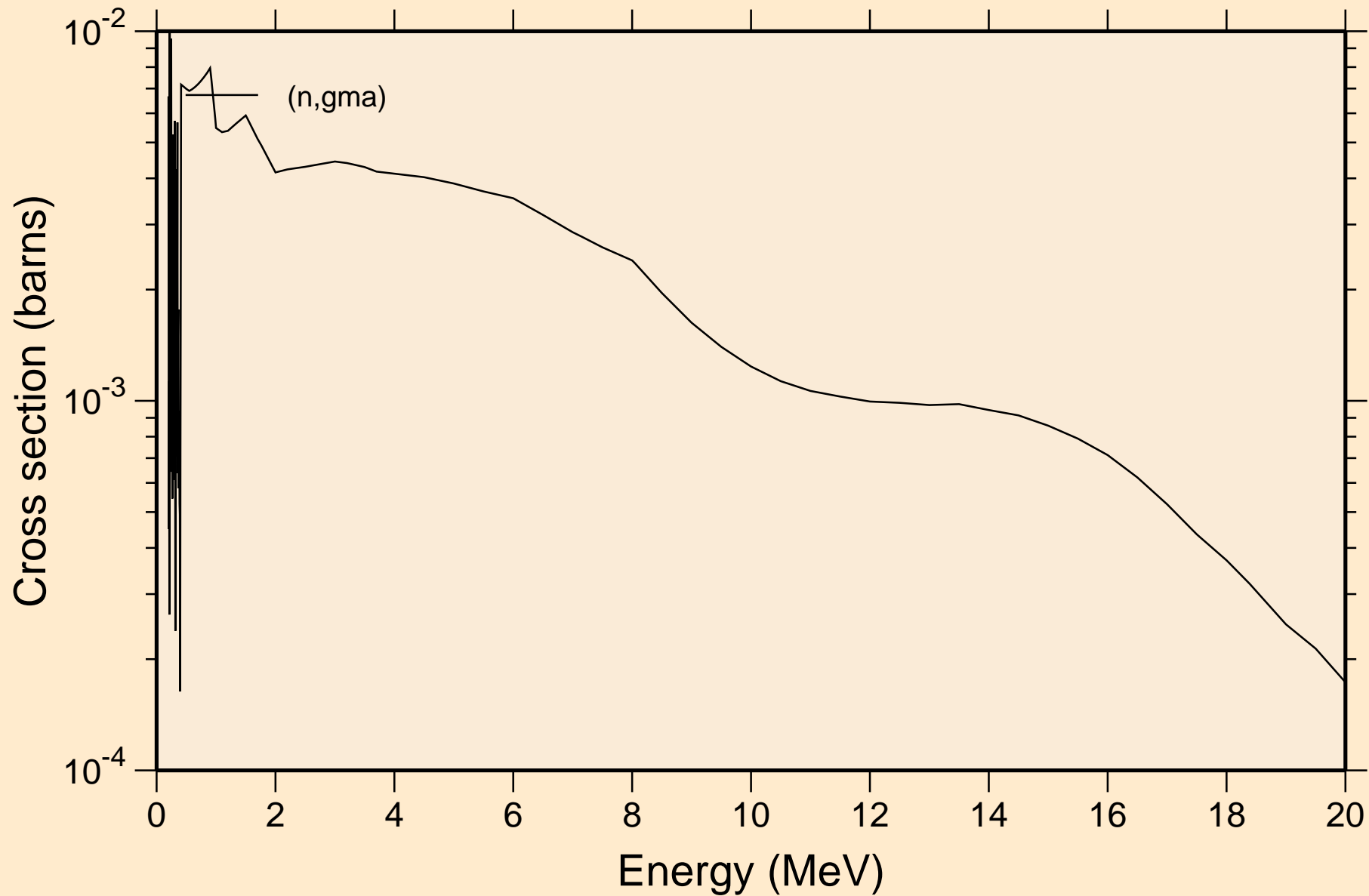


ENDF/B-VII Y-89

Damage

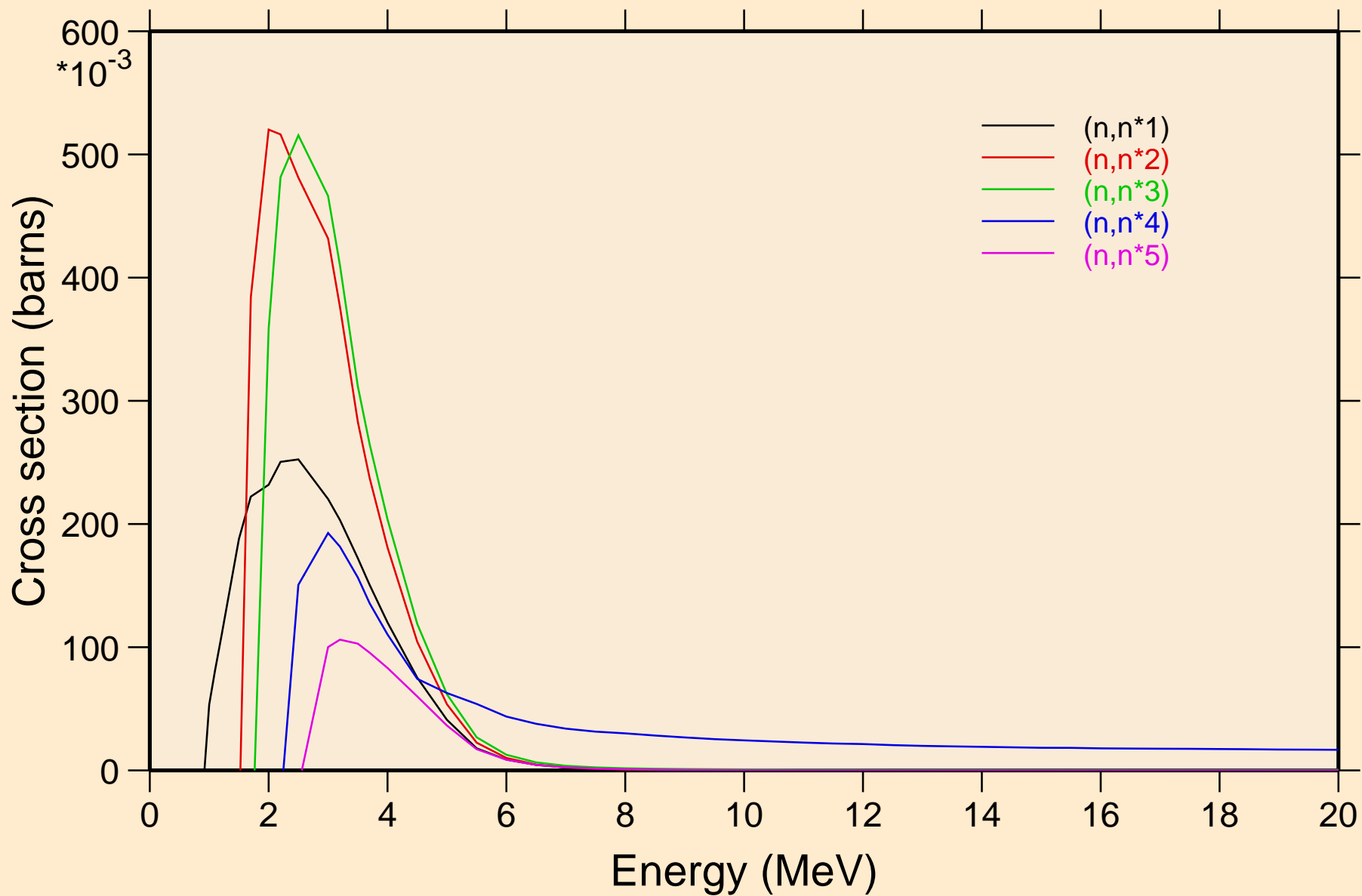


ENDF/B-VII Y-89  
Non-threshold reactions



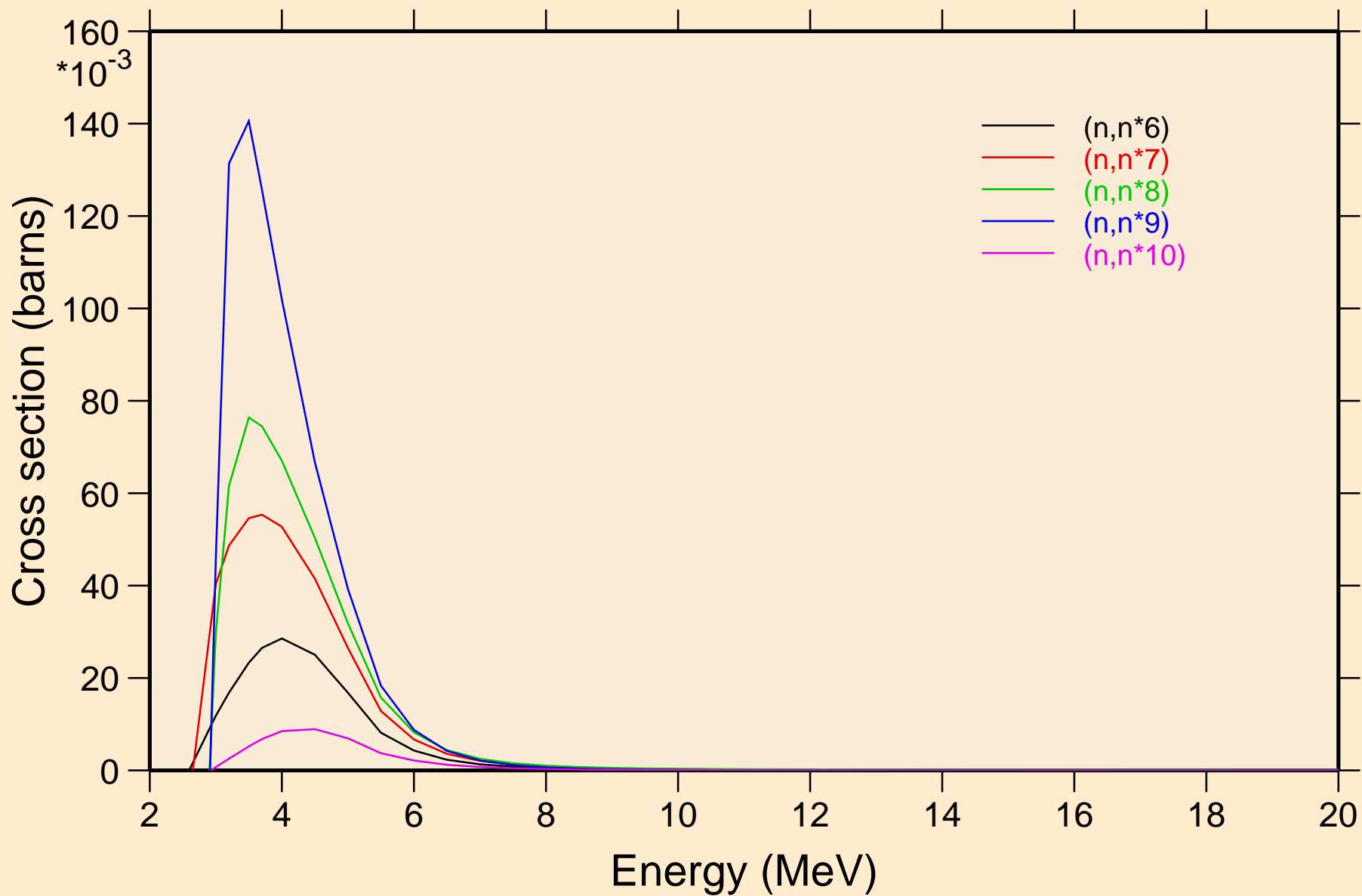
# ENDF/B-VII Y-89

## Inelastic levels



# ENDF/B-VII Y-89

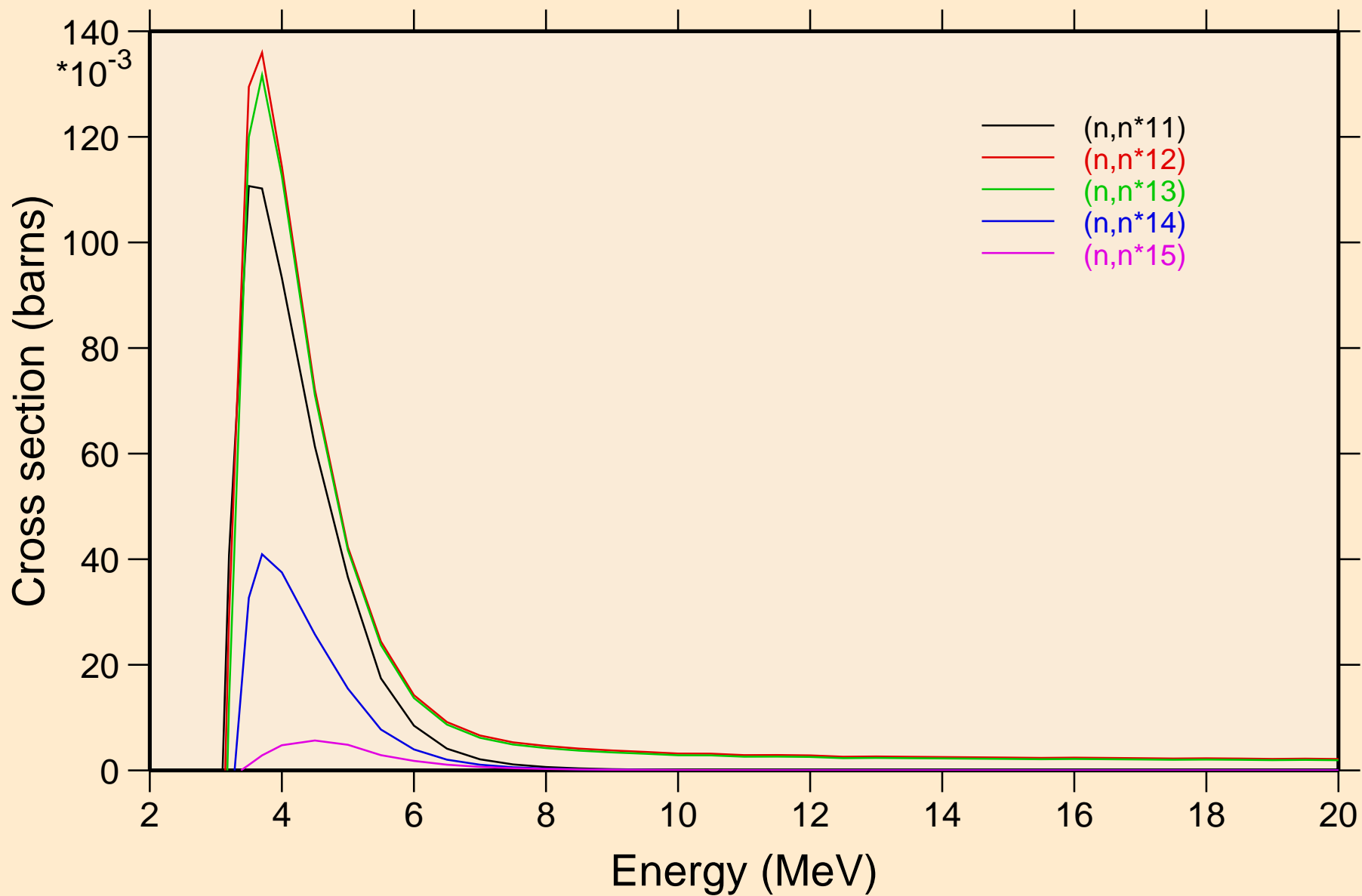
## Inelastic levels





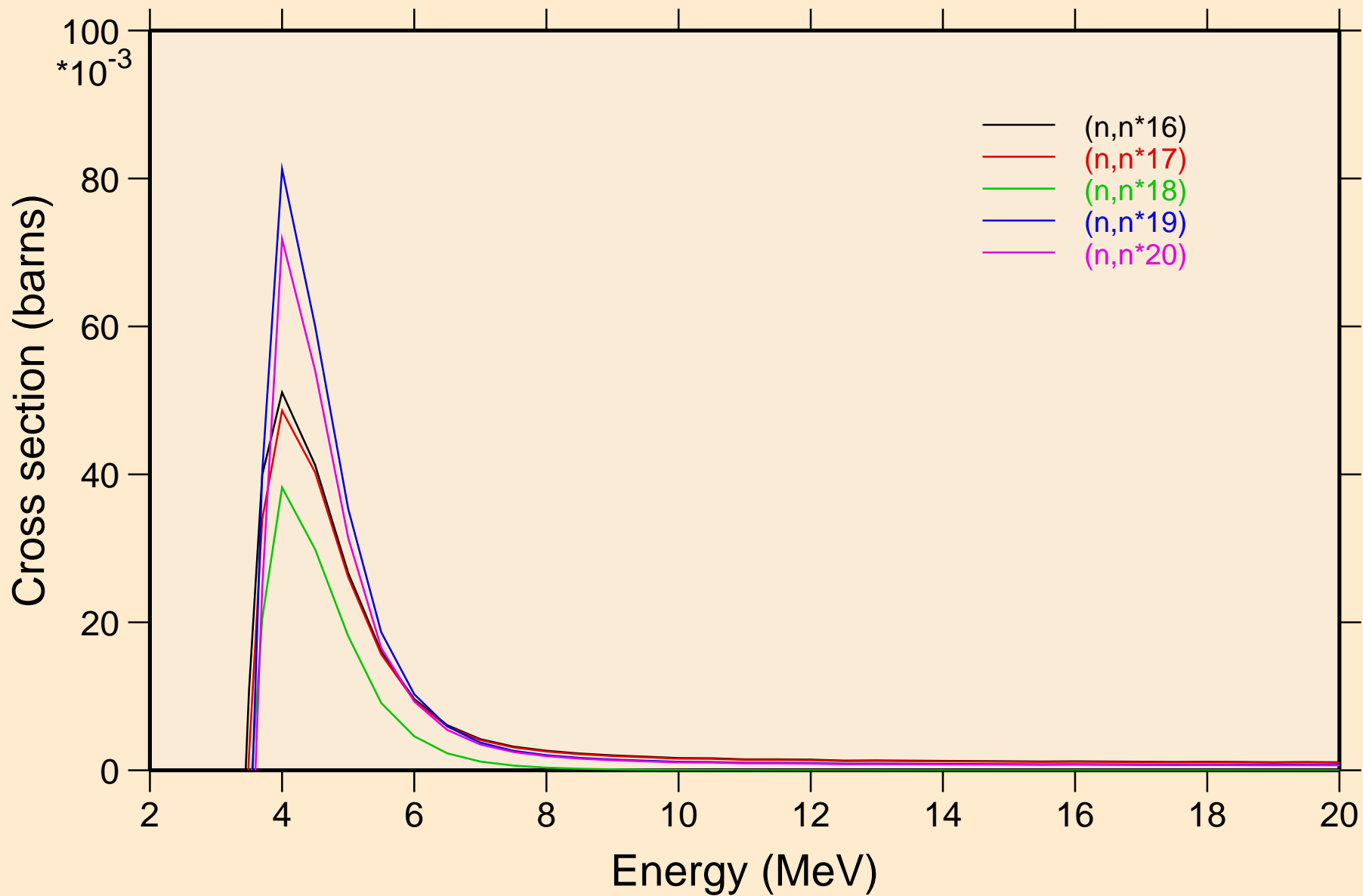
# ENDF/B-VII Y-89

## Inelastic levels



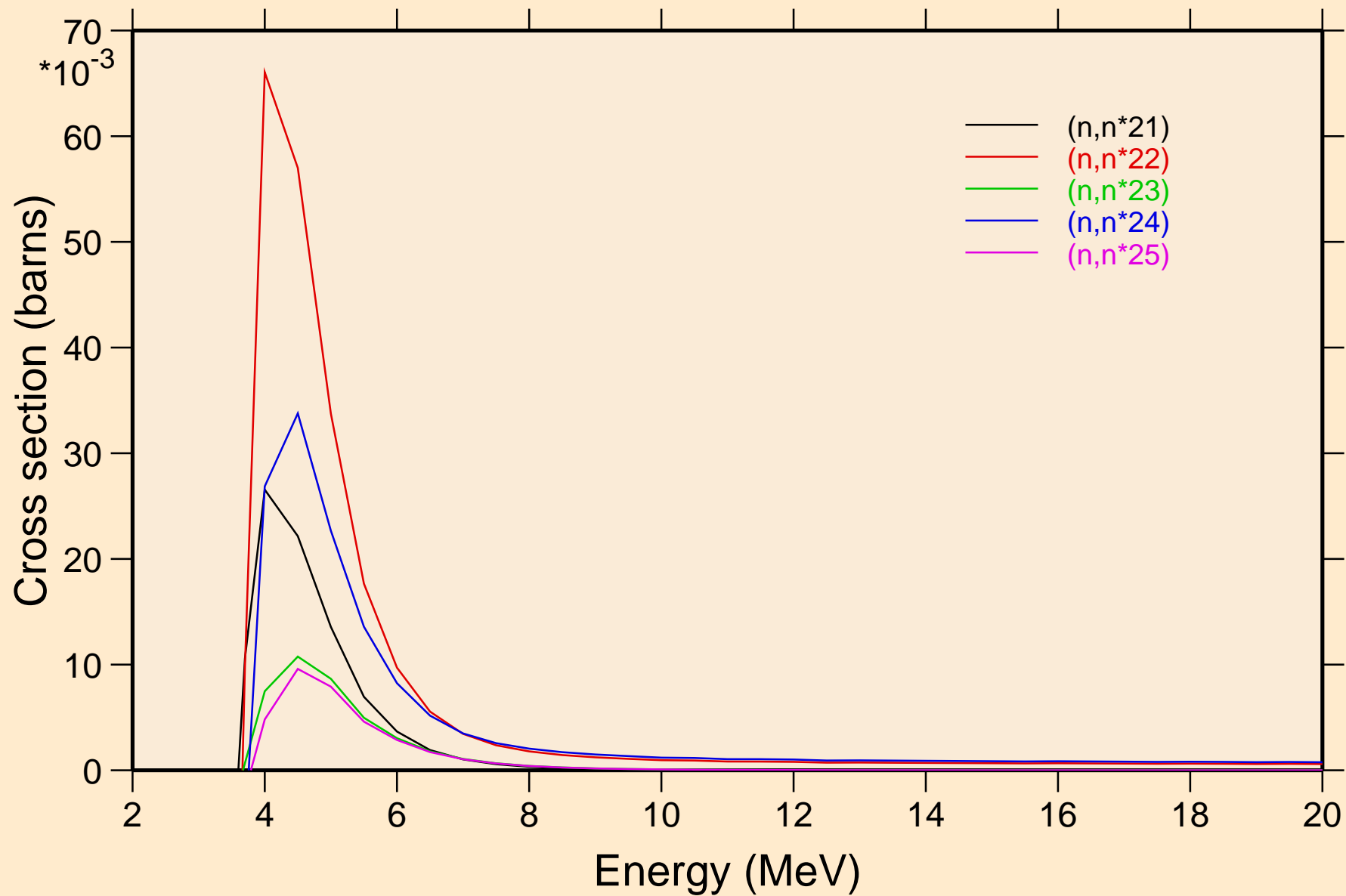
# ENDF/B-VII Y-89

## Inelastic levels



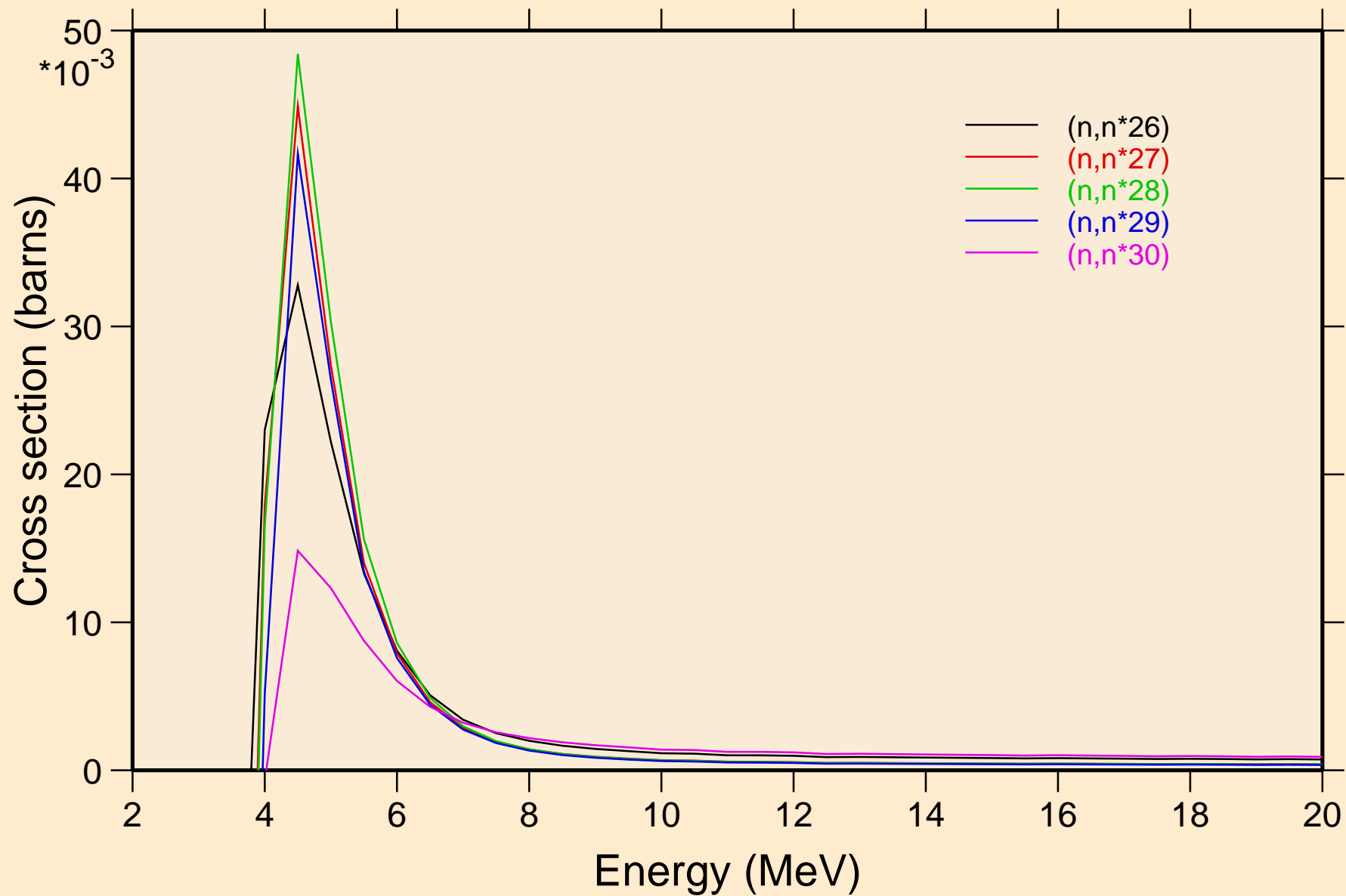
# ENDF/B-VII Y-89

## Inelastic levels



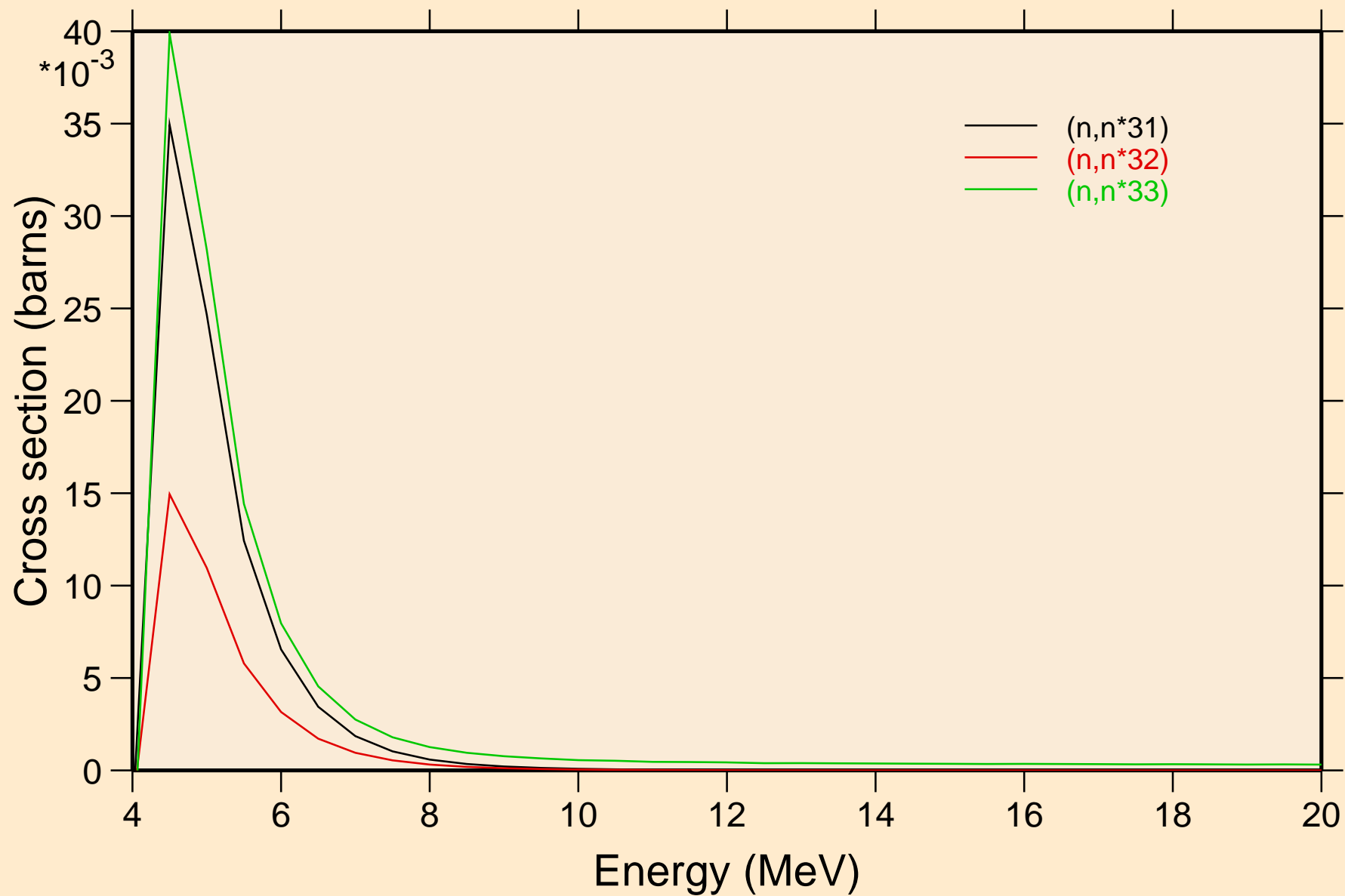
# ENDF/B-VII Y-89

## Inelastic levels



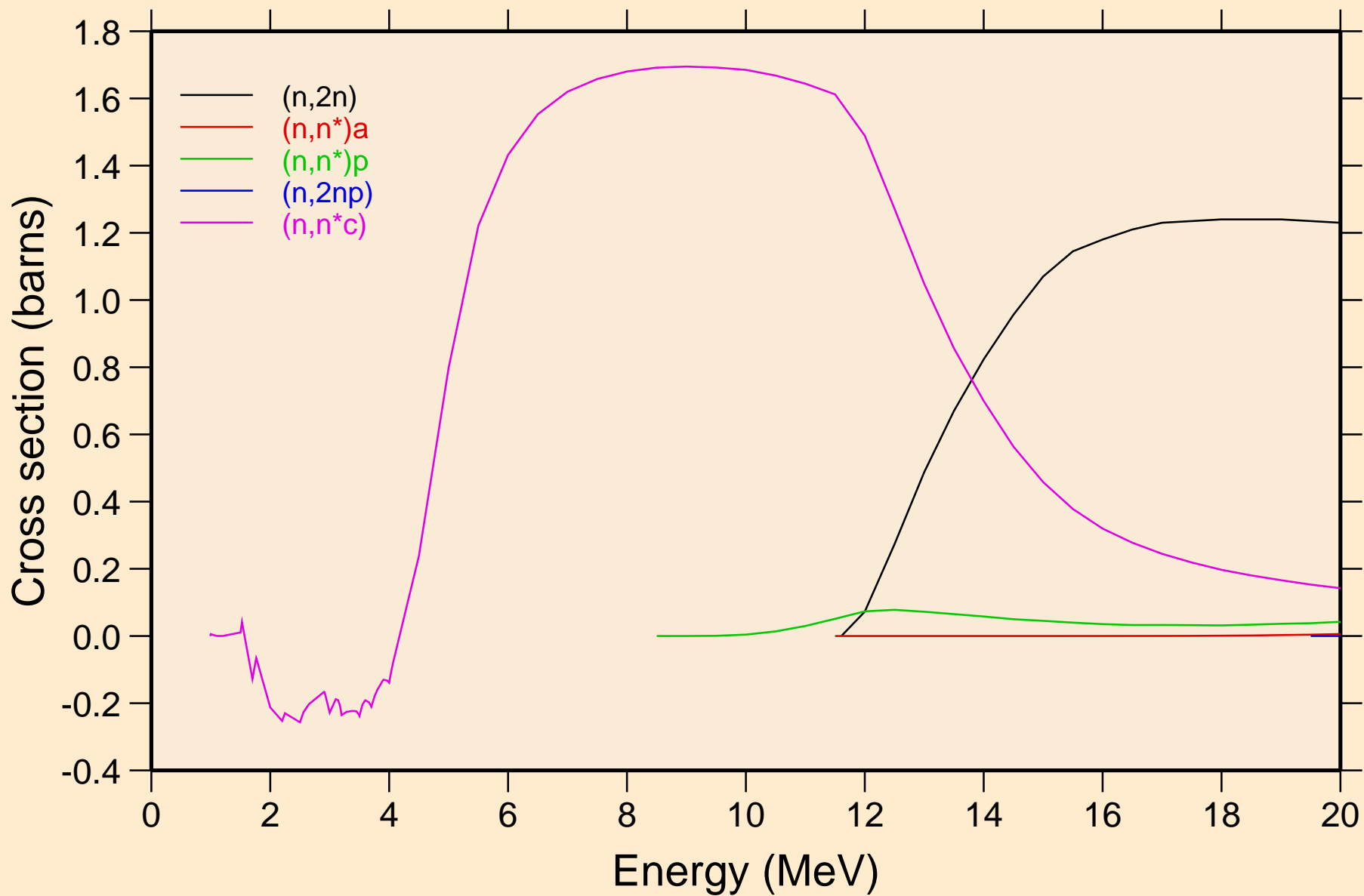
# ENDF/B-VII Y-89

## Inelastic levels



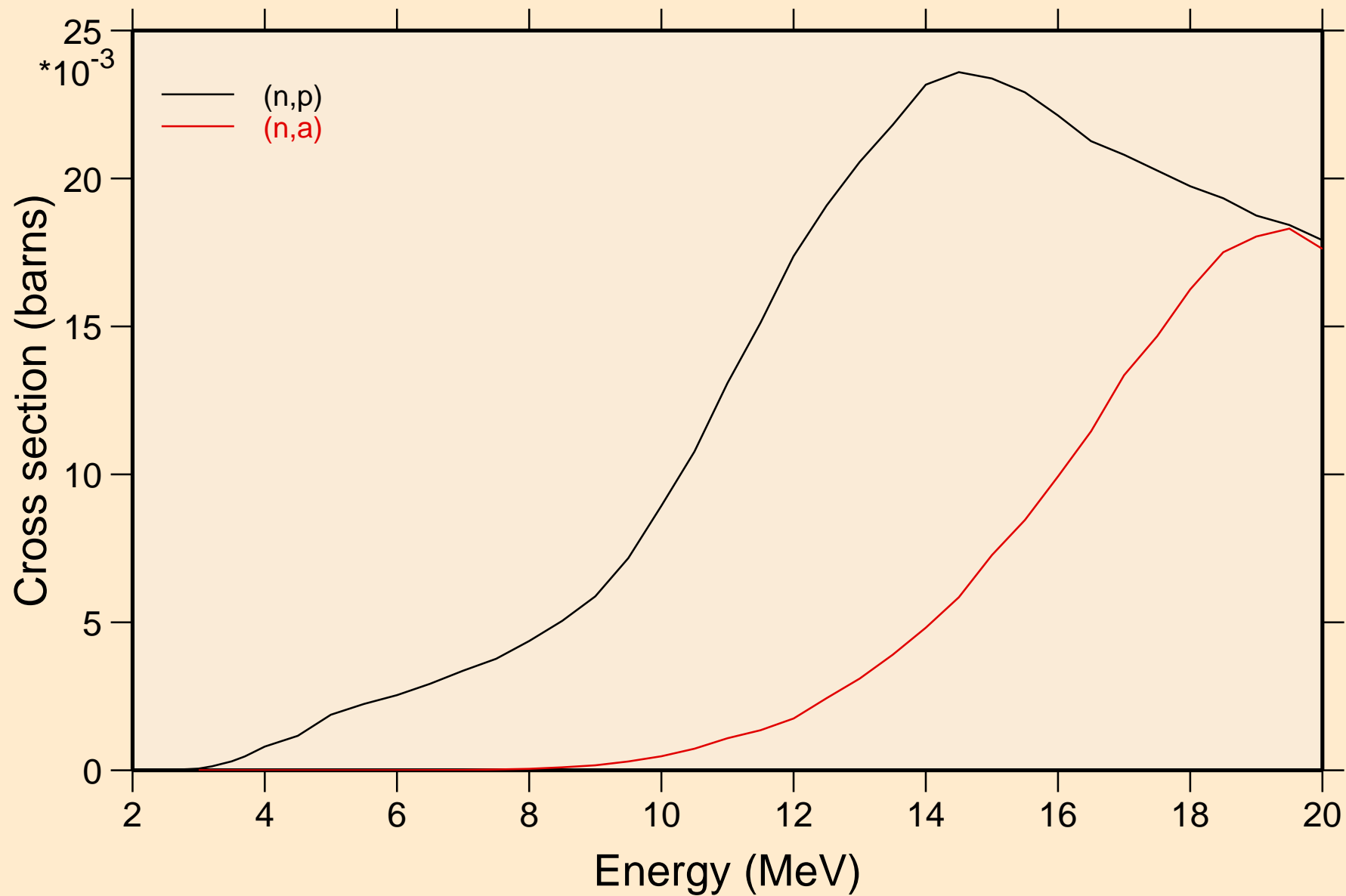
# ENDF/B-VII Y-89

## Threshold reactions



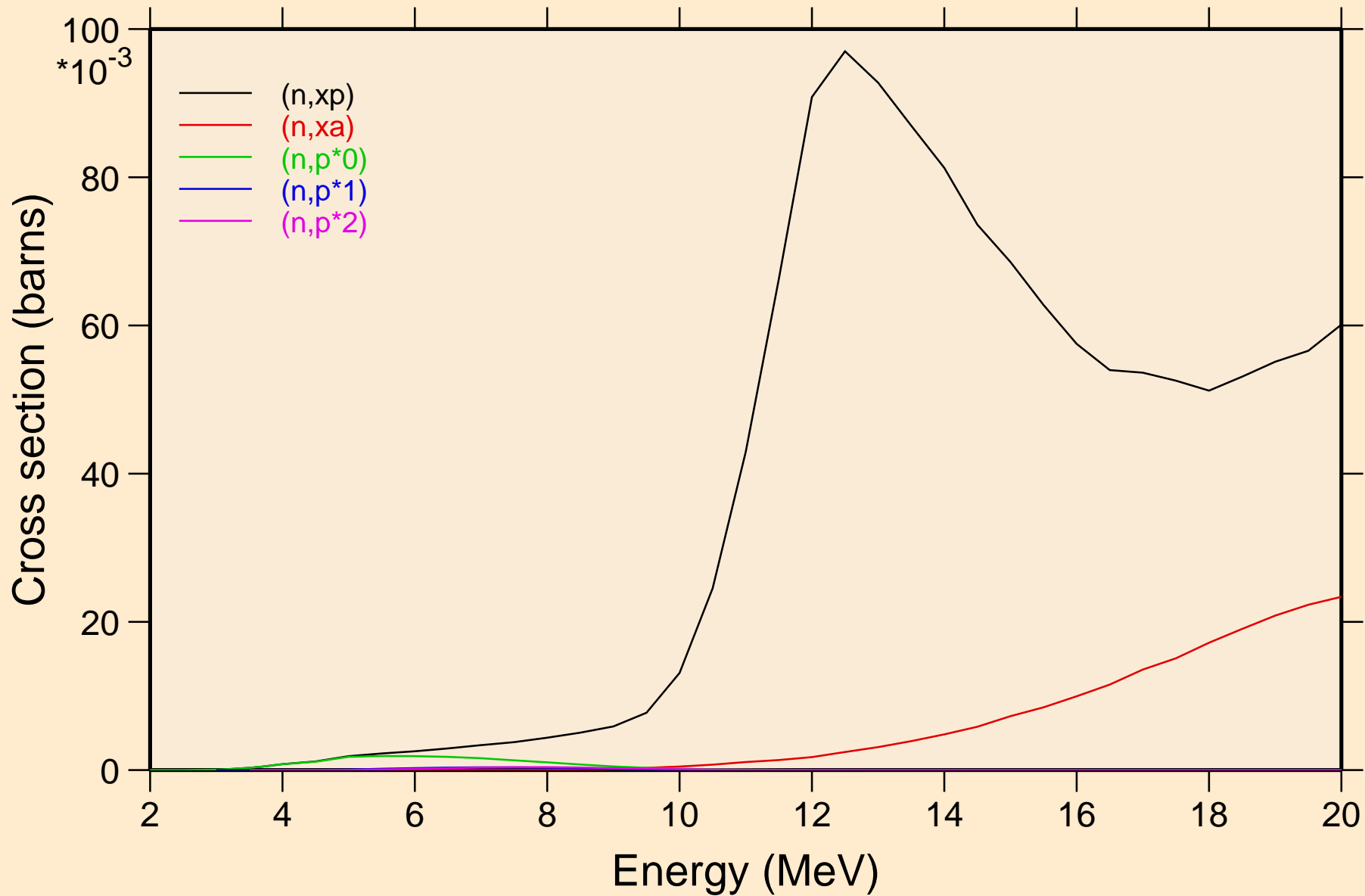
# ENDF/B-VII Y-89

## Threshold reactions



# ENDF/B-VII Y-89

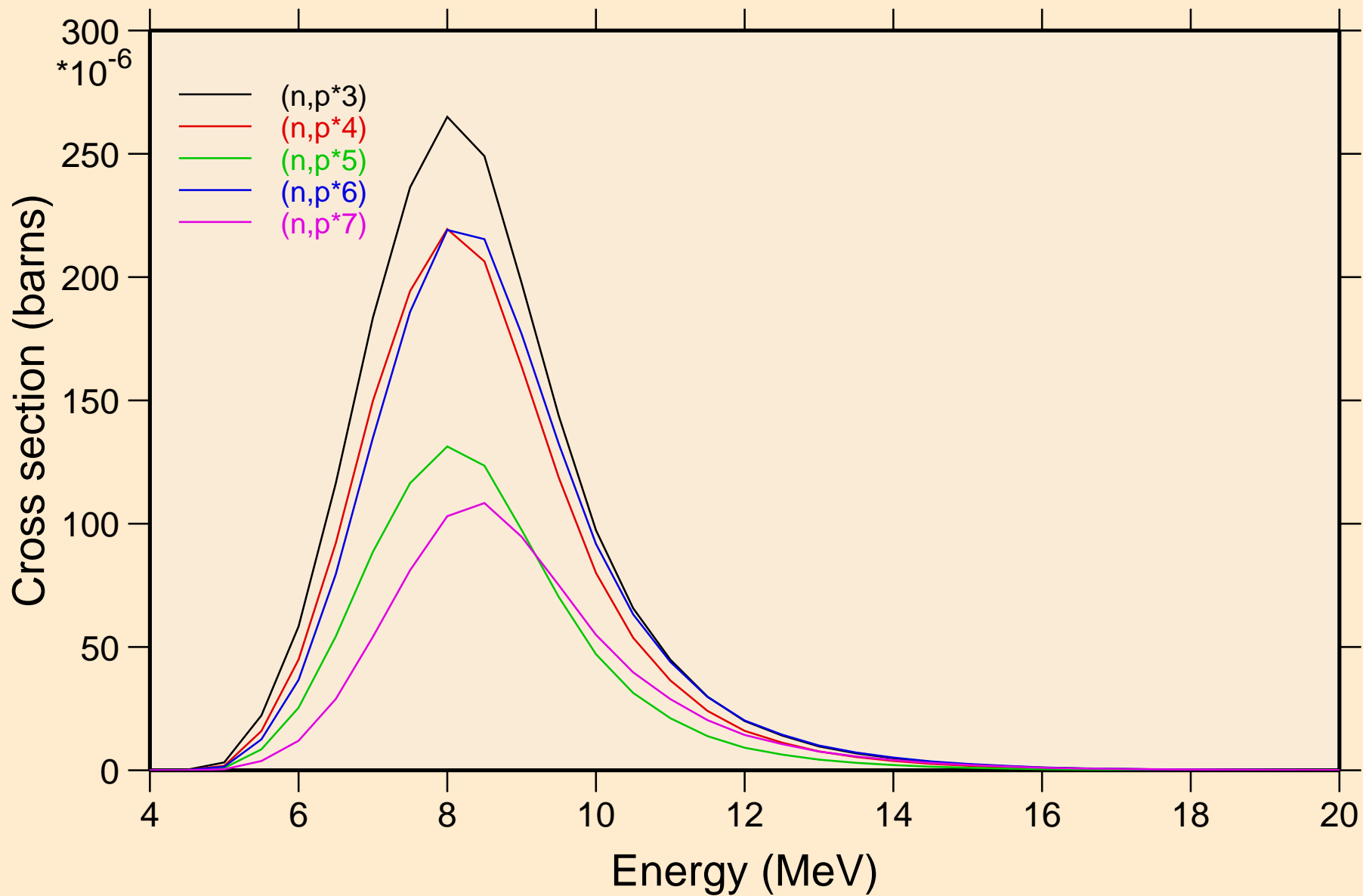
## Threshold reactions





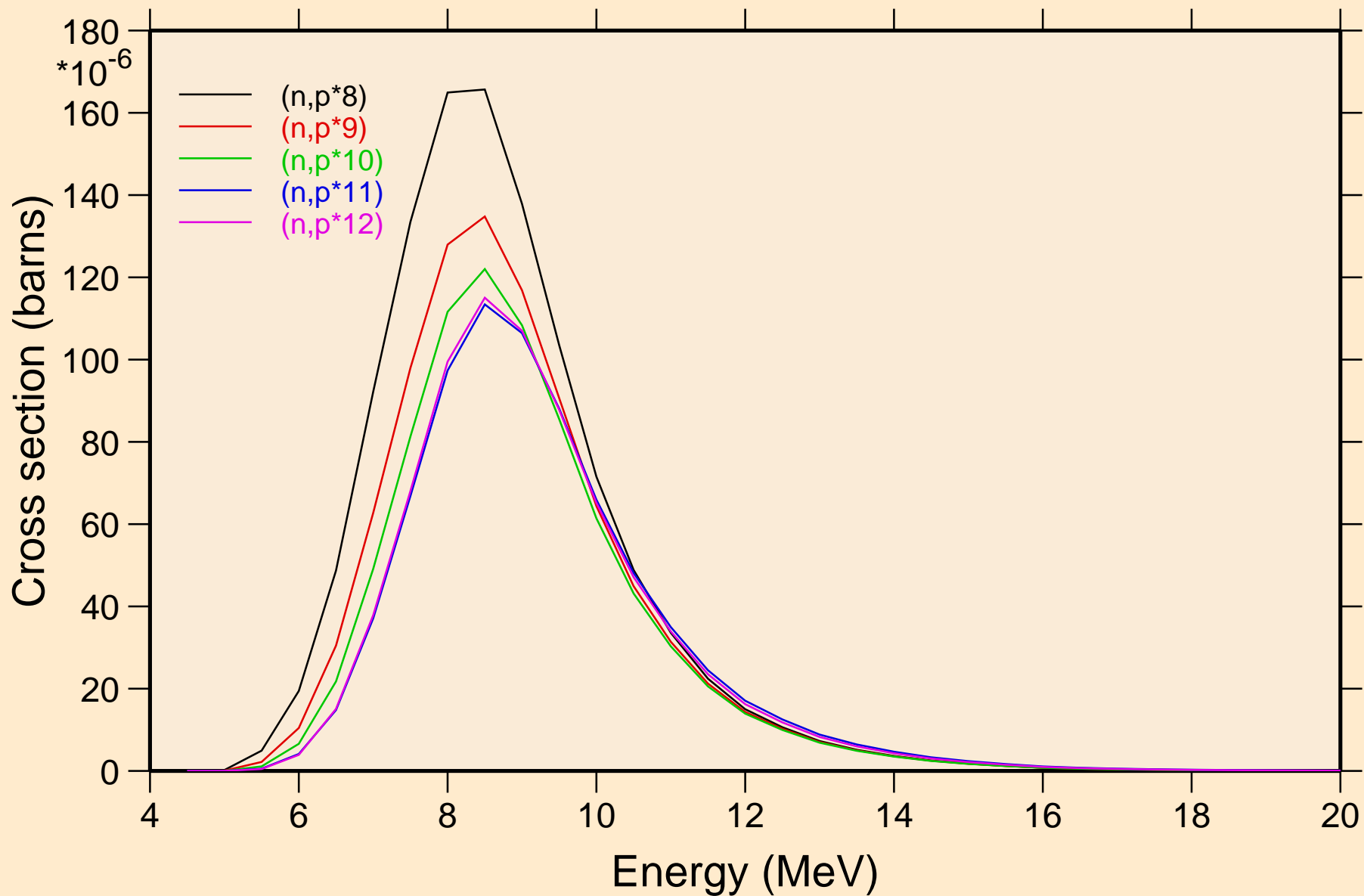
# ENDF/B-VII Y-89

## Threshold reactions



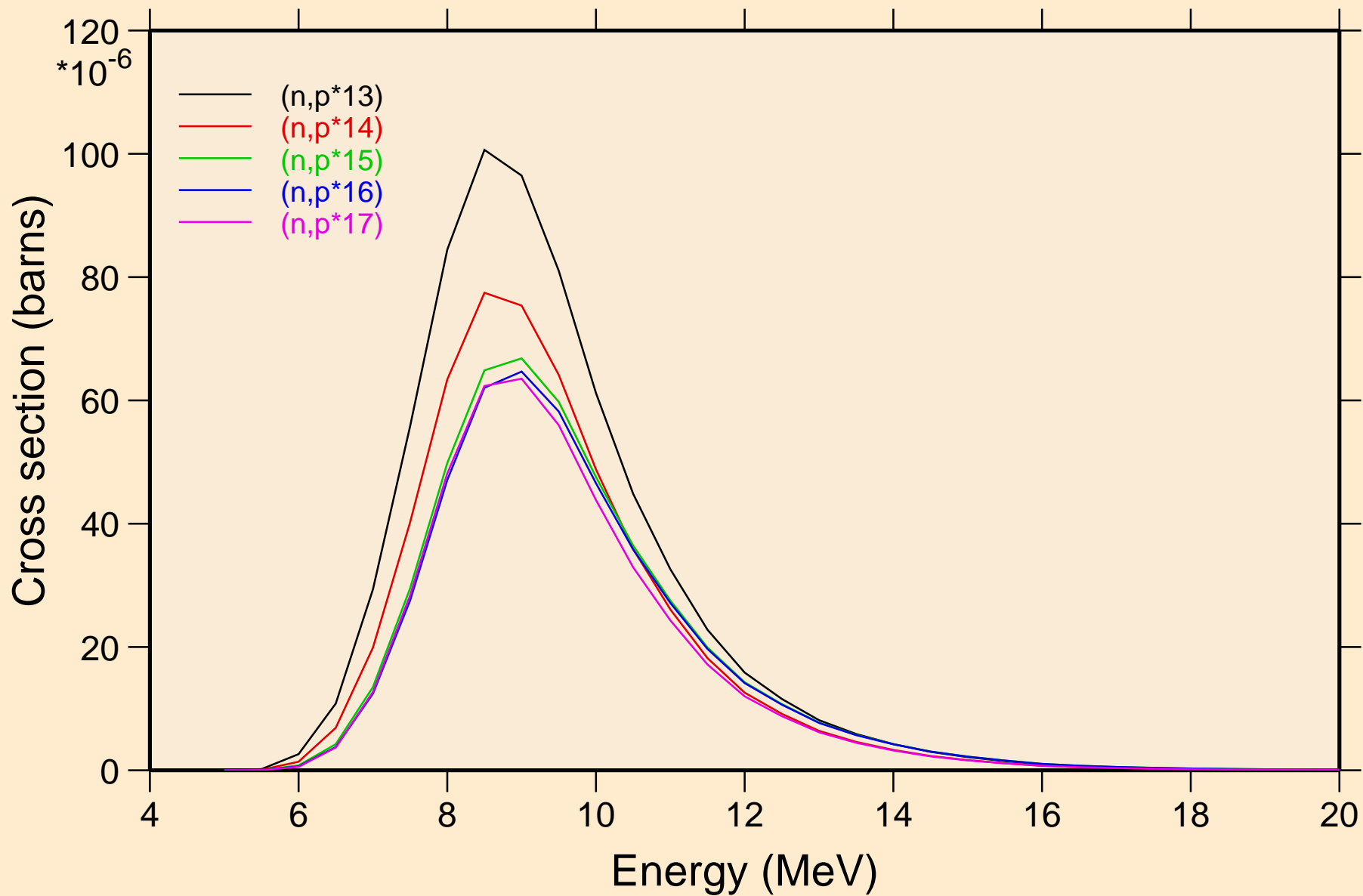
# ENDF/B-VII Y-89

## Threshold reactions



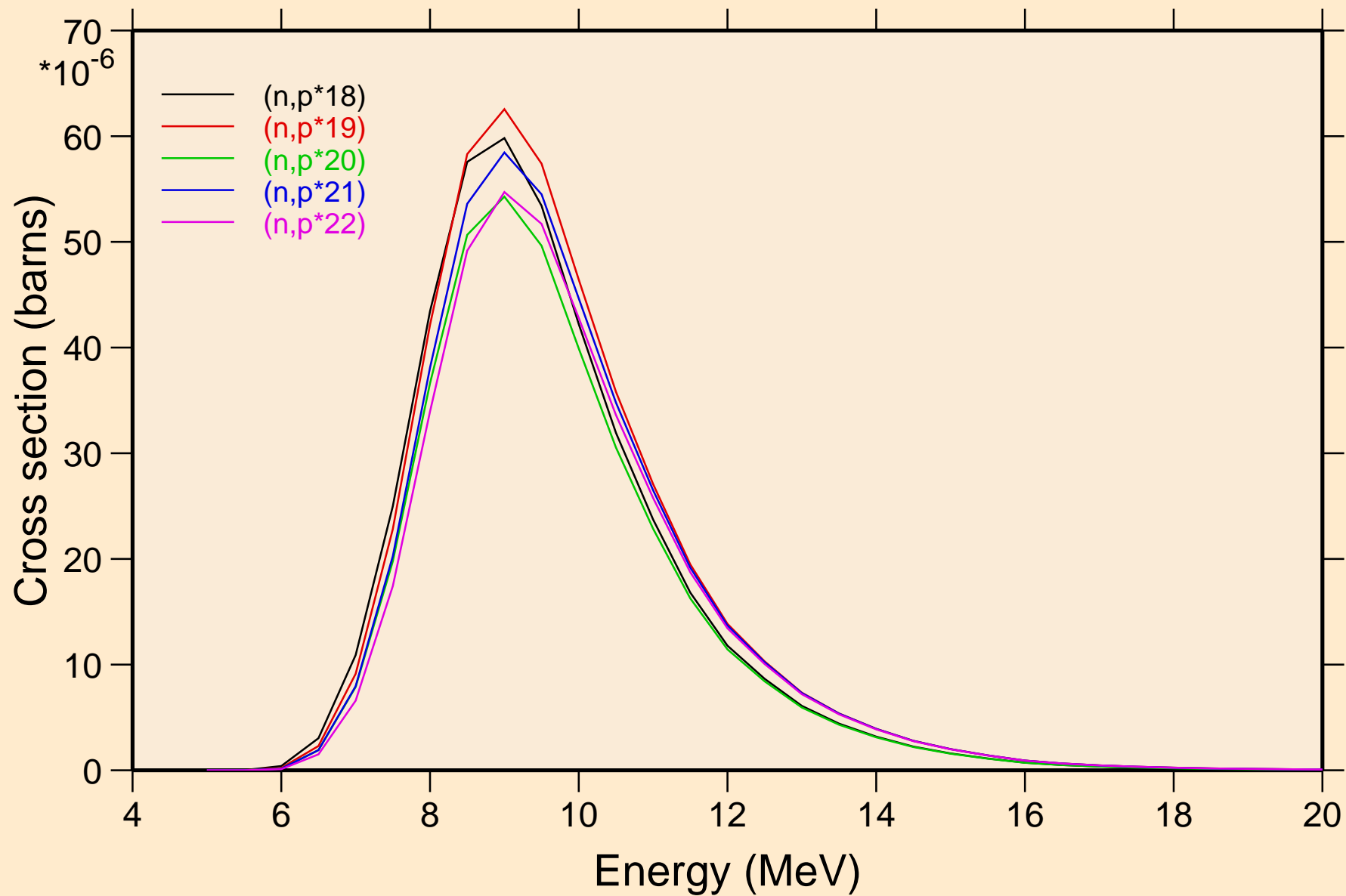
# ENDF/B-VII Y-89

## Threshold reactions



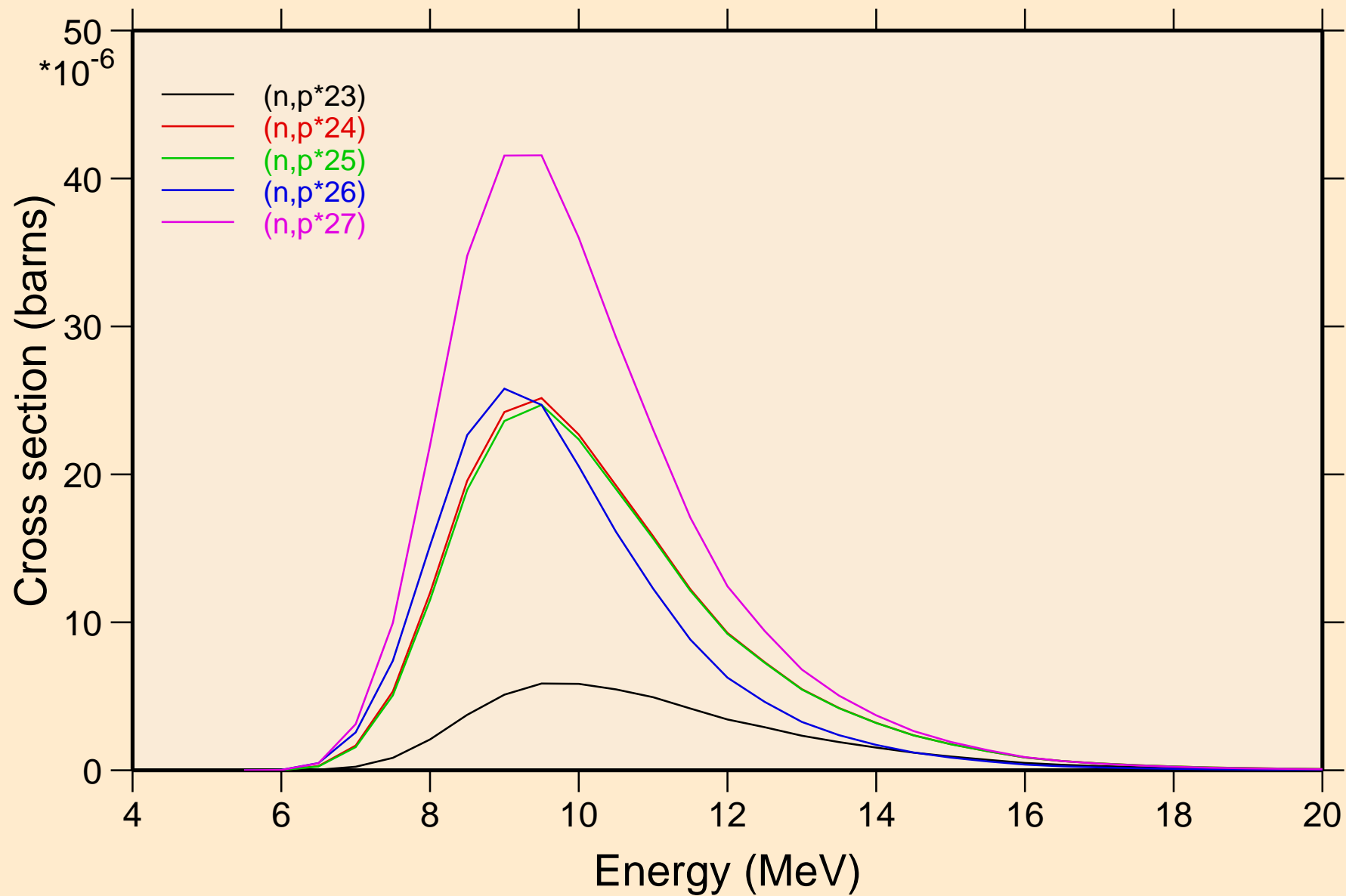
# ENDF/B-VII Y-89

## Threshold reactions



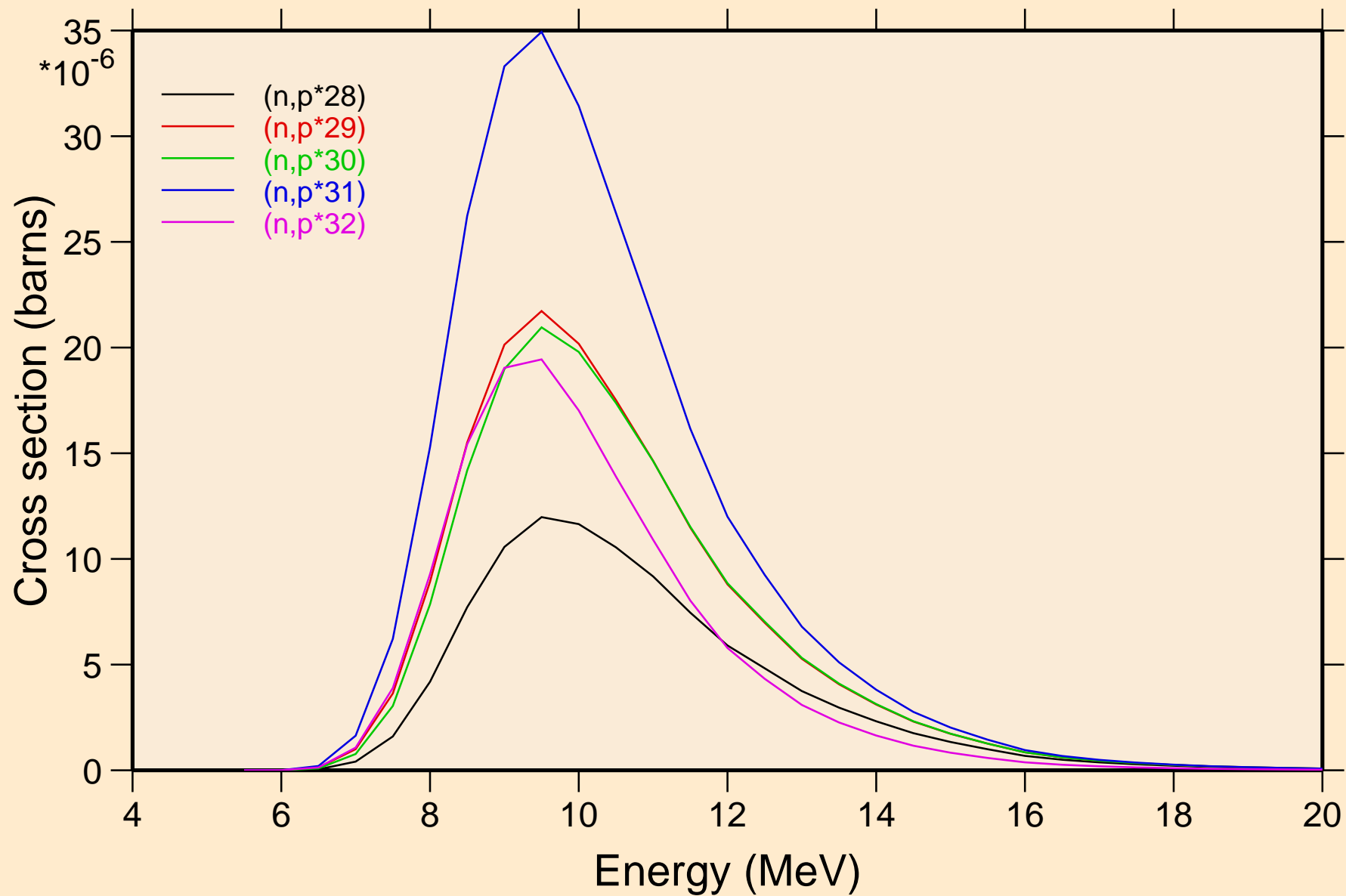
# ENDF/B-VII Y-89

## Threshold reactions



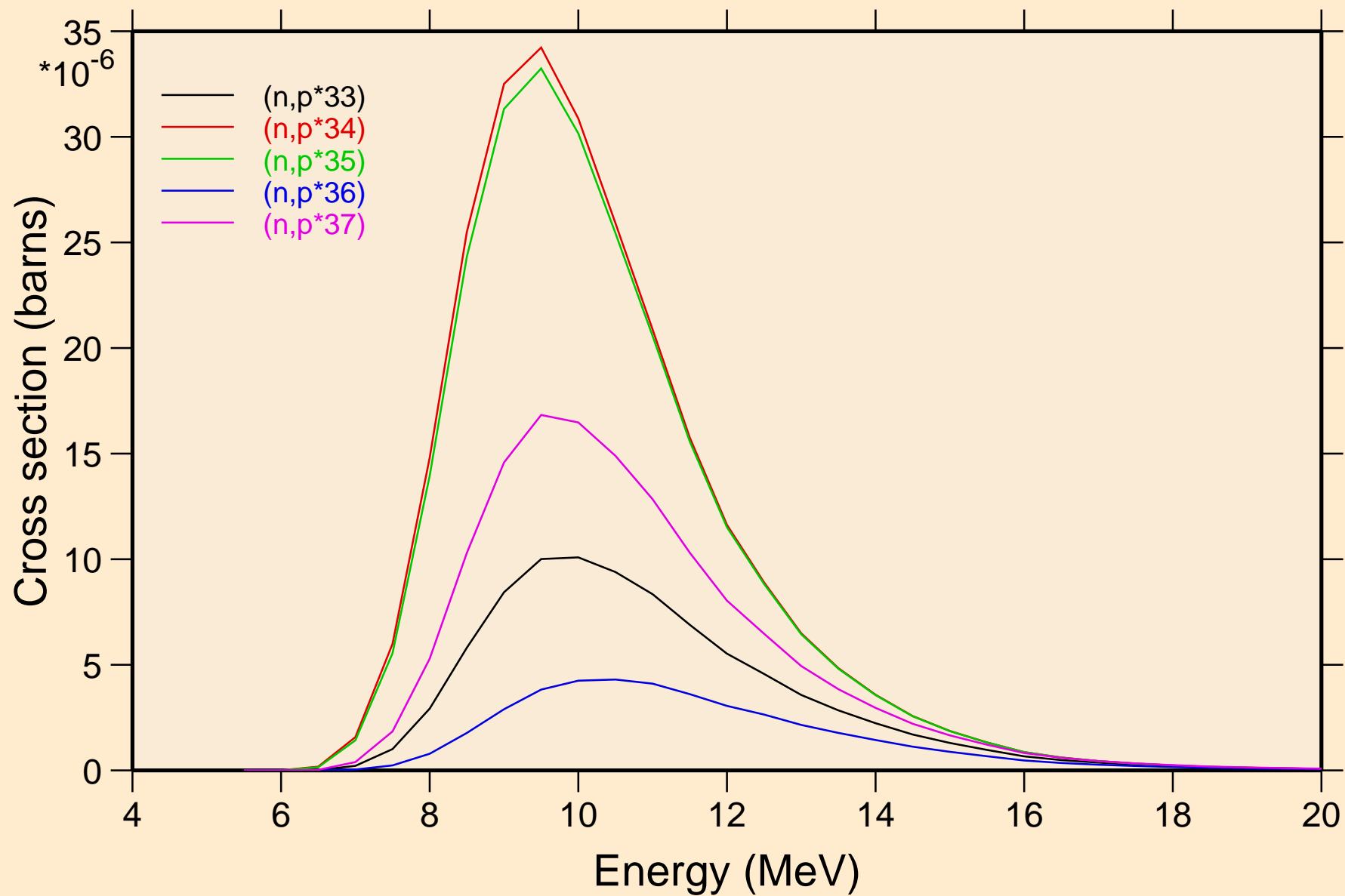
# ENDF/B-VII Y-89

## Threshold reactions



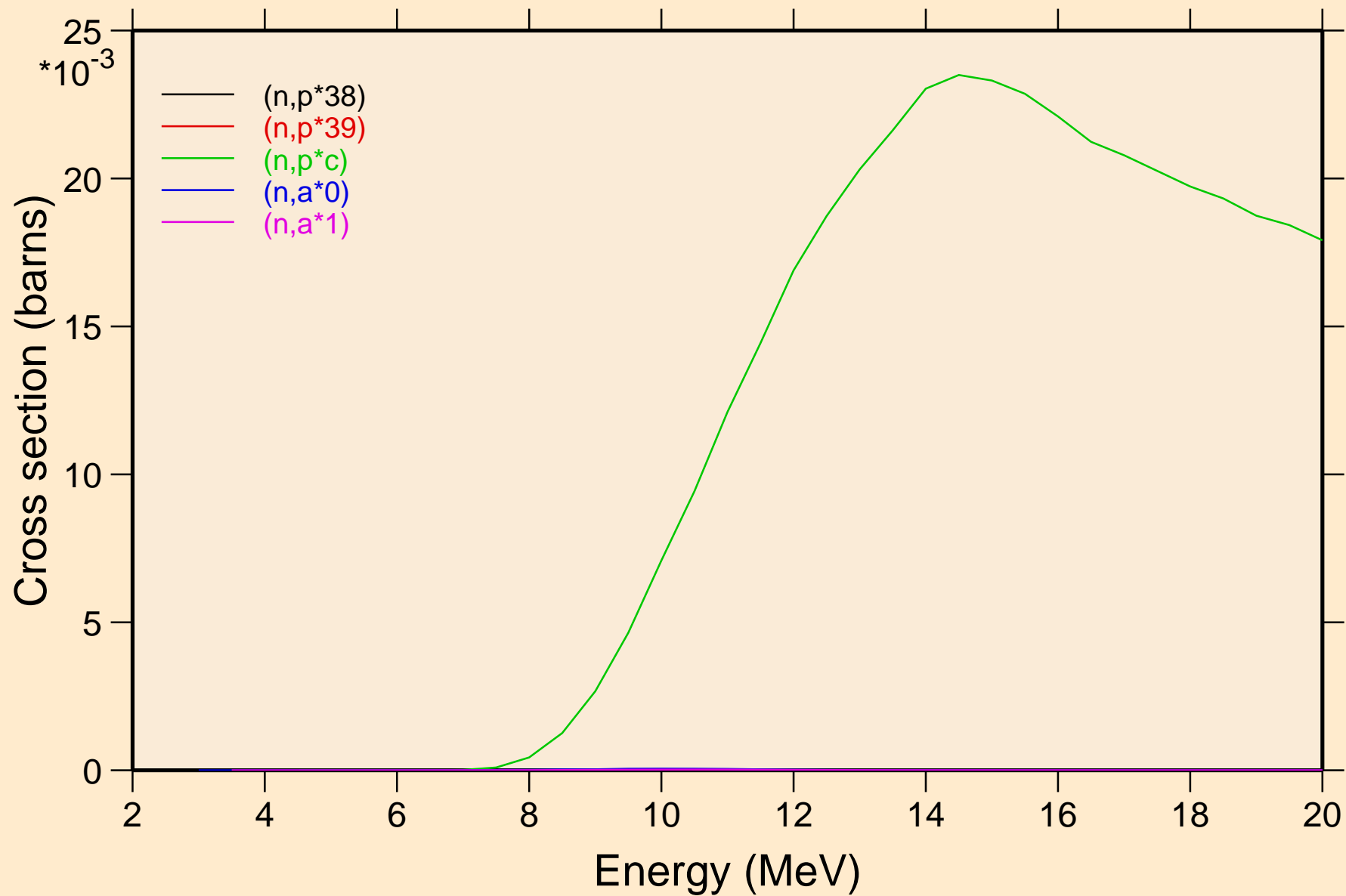
# ENDF/B-VII Y-89

## Threshold reactions



# ENDF/B-VII Y-89

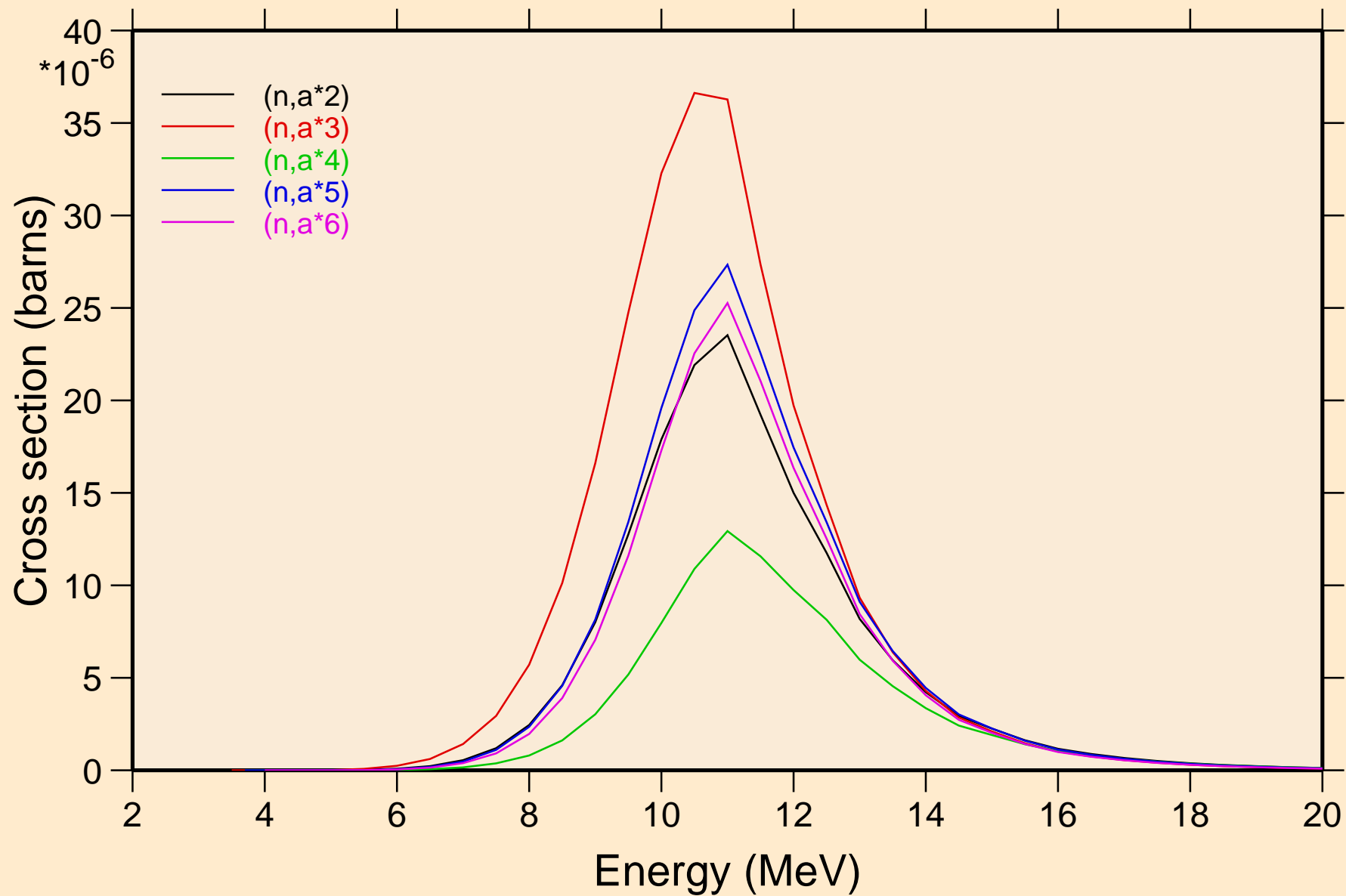
## Threshold reactions





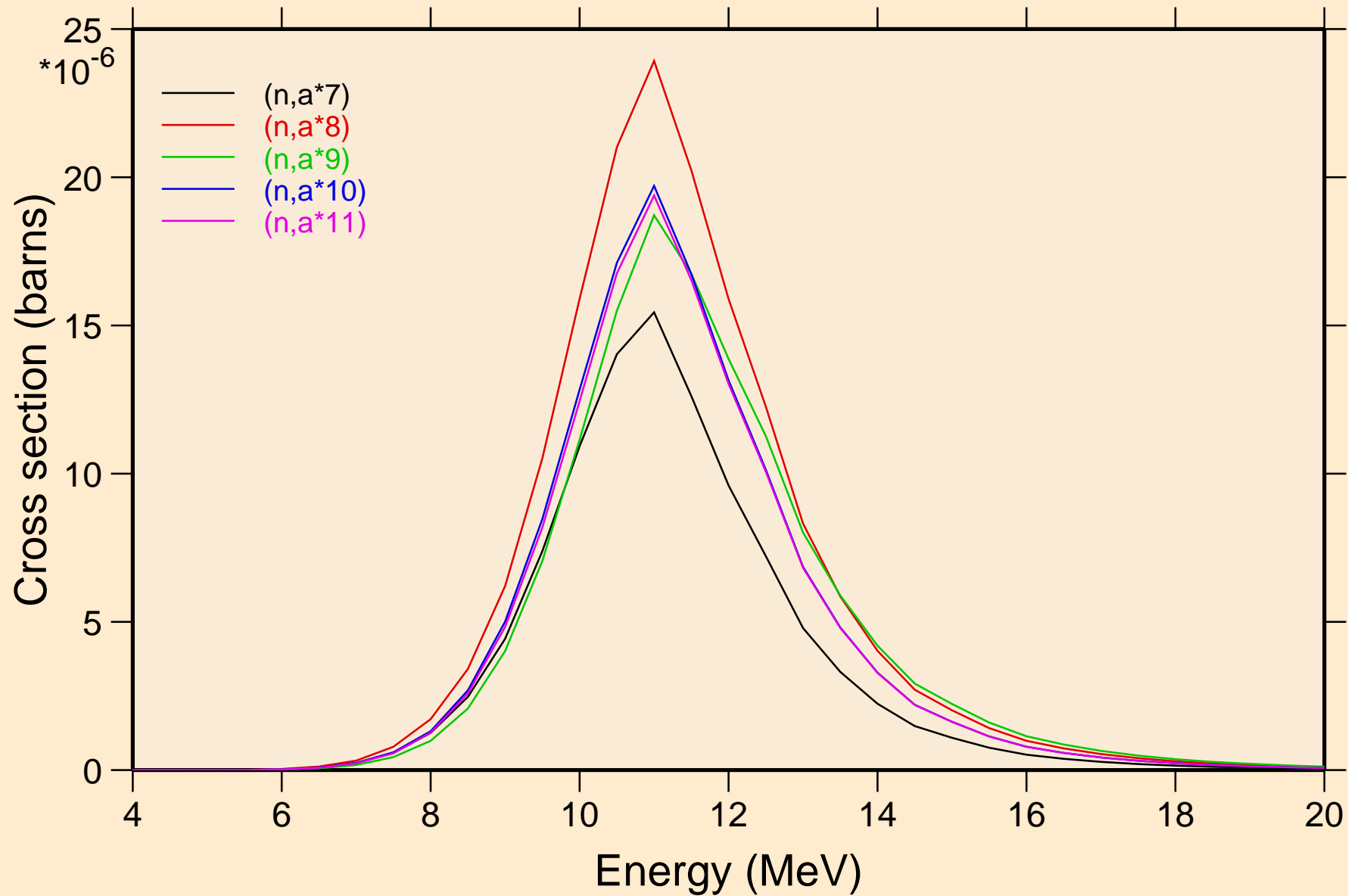
# ENDF/B-VII Y-89

## Threshold reactions



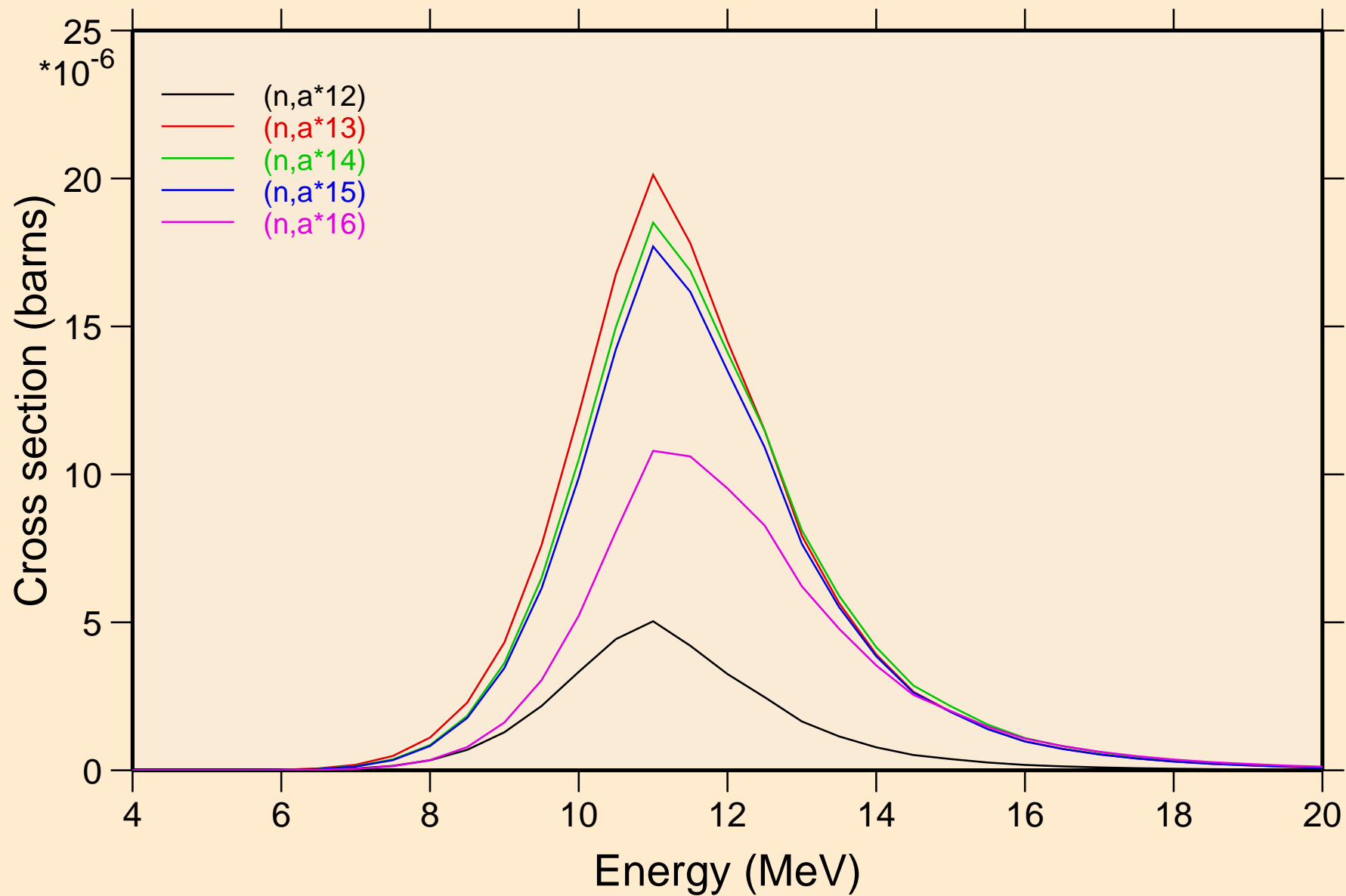
# ENDF/B-VII Y-89

## Threshold reactions



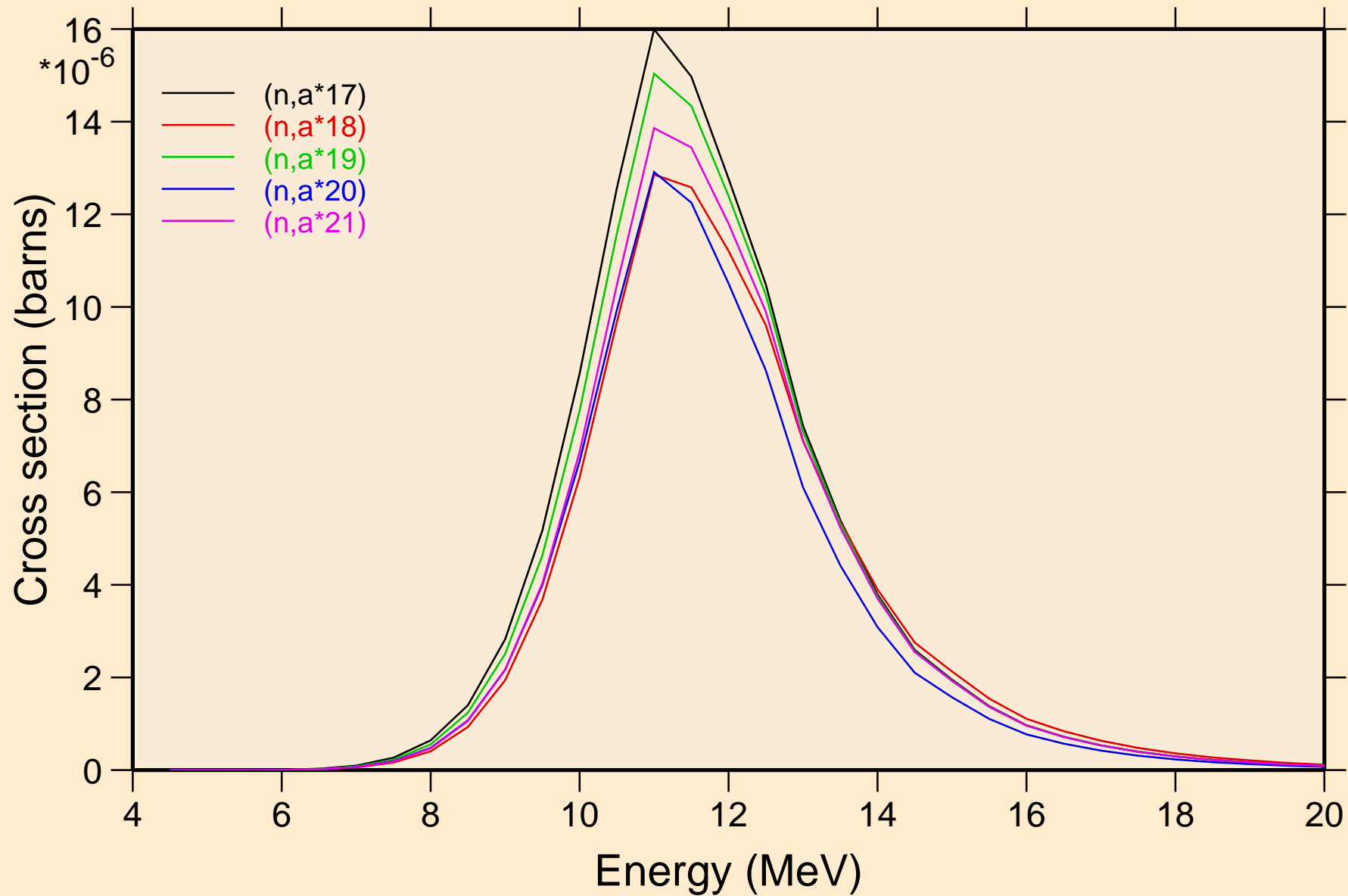
# ENDF/B-VII Y-89

## Threshold reactions



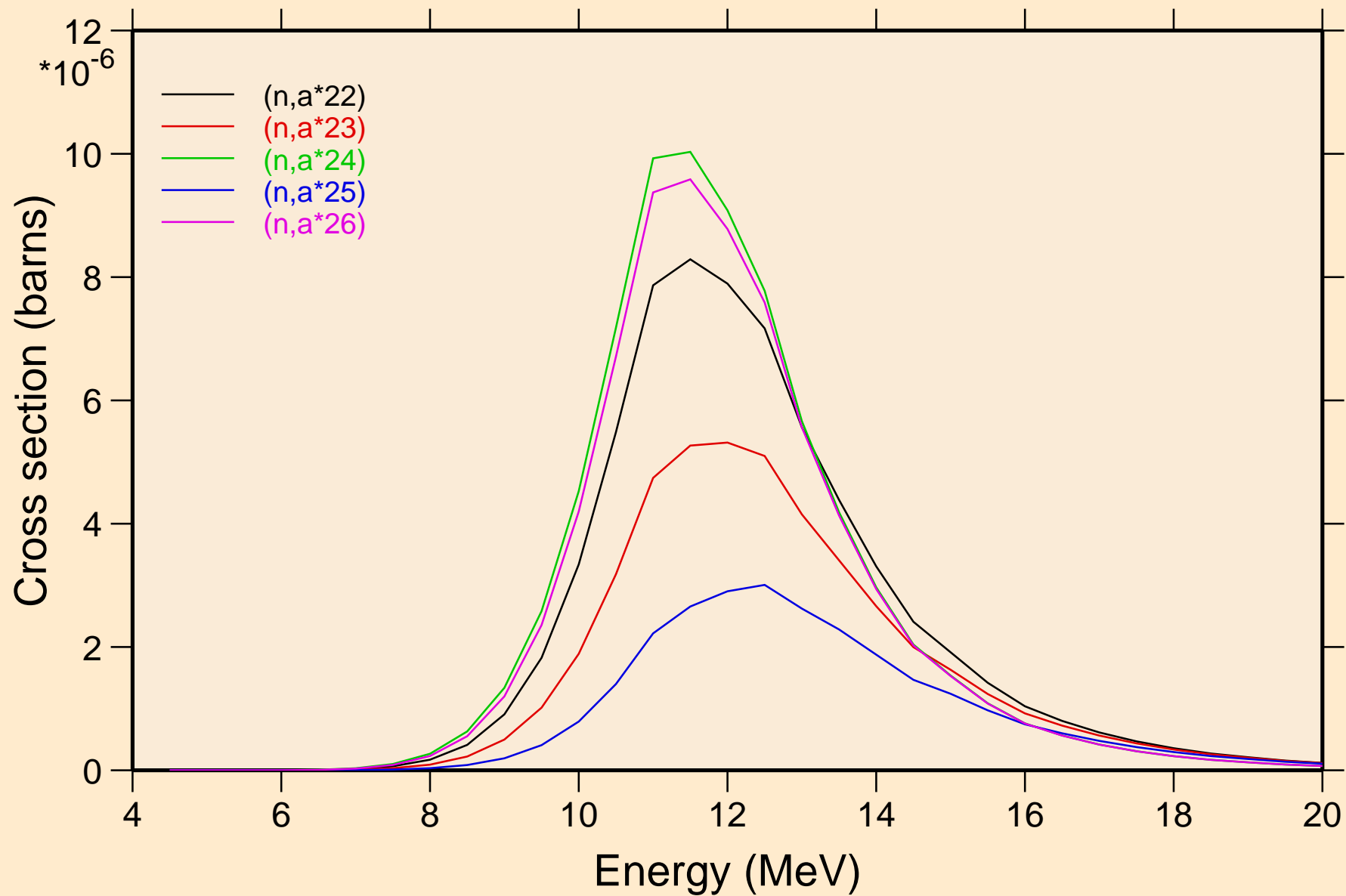
# ENDF/B-VII Y-89

## Threshold reactions



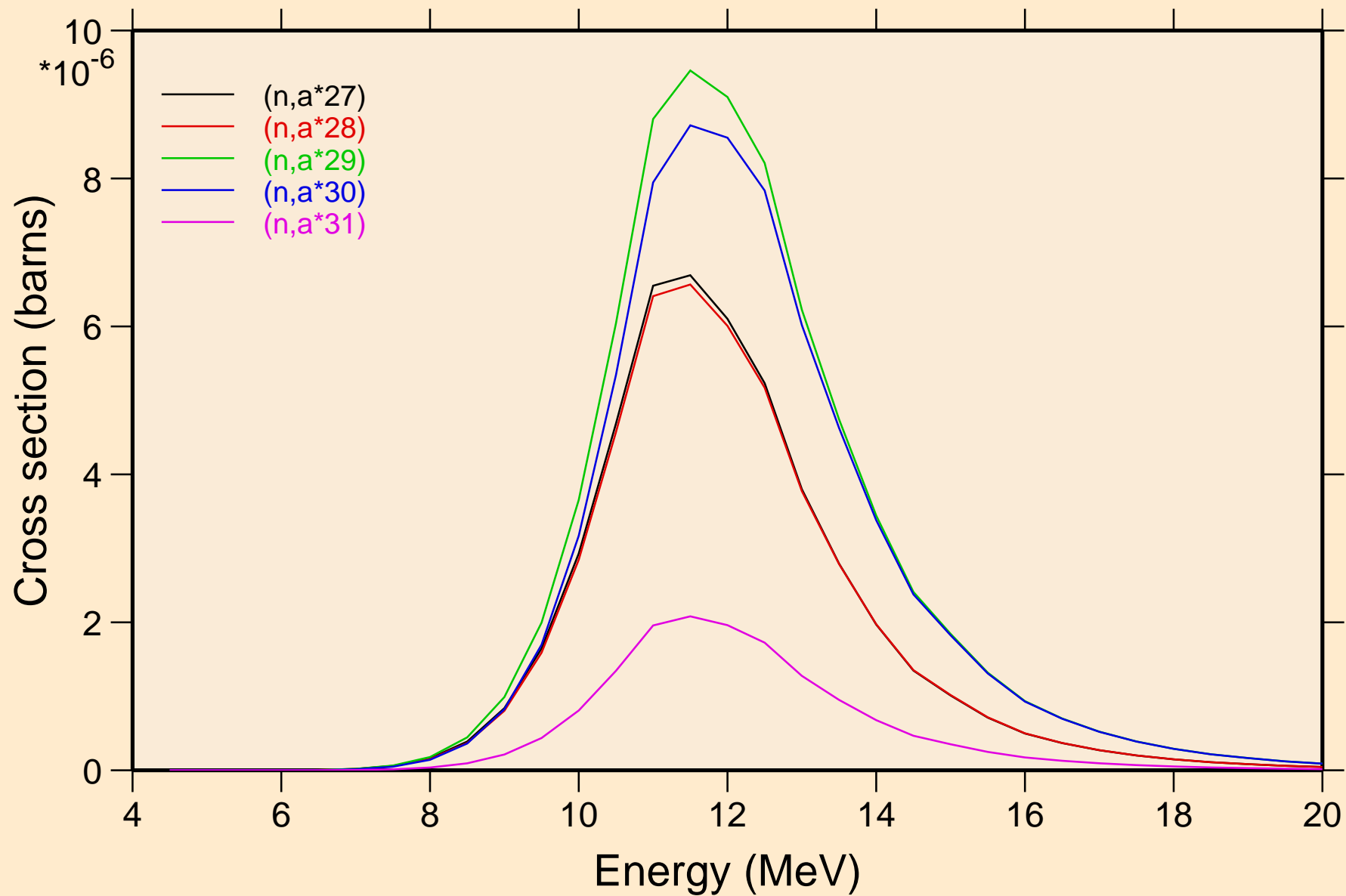
# ENDF/B-VII Y-89

## Threshold reactions



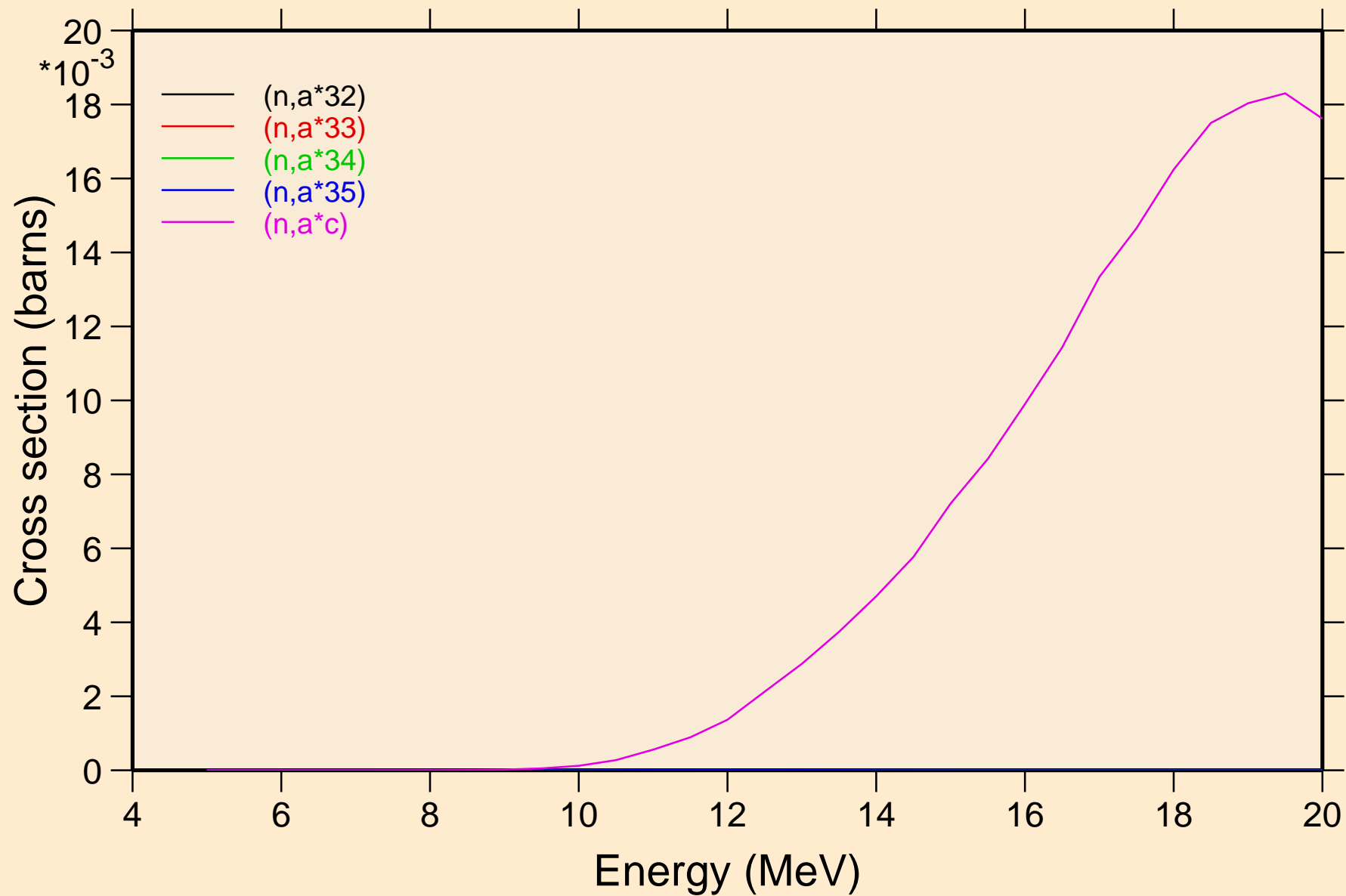
# ENDF/B-VII Y-89

## Threshold reactions

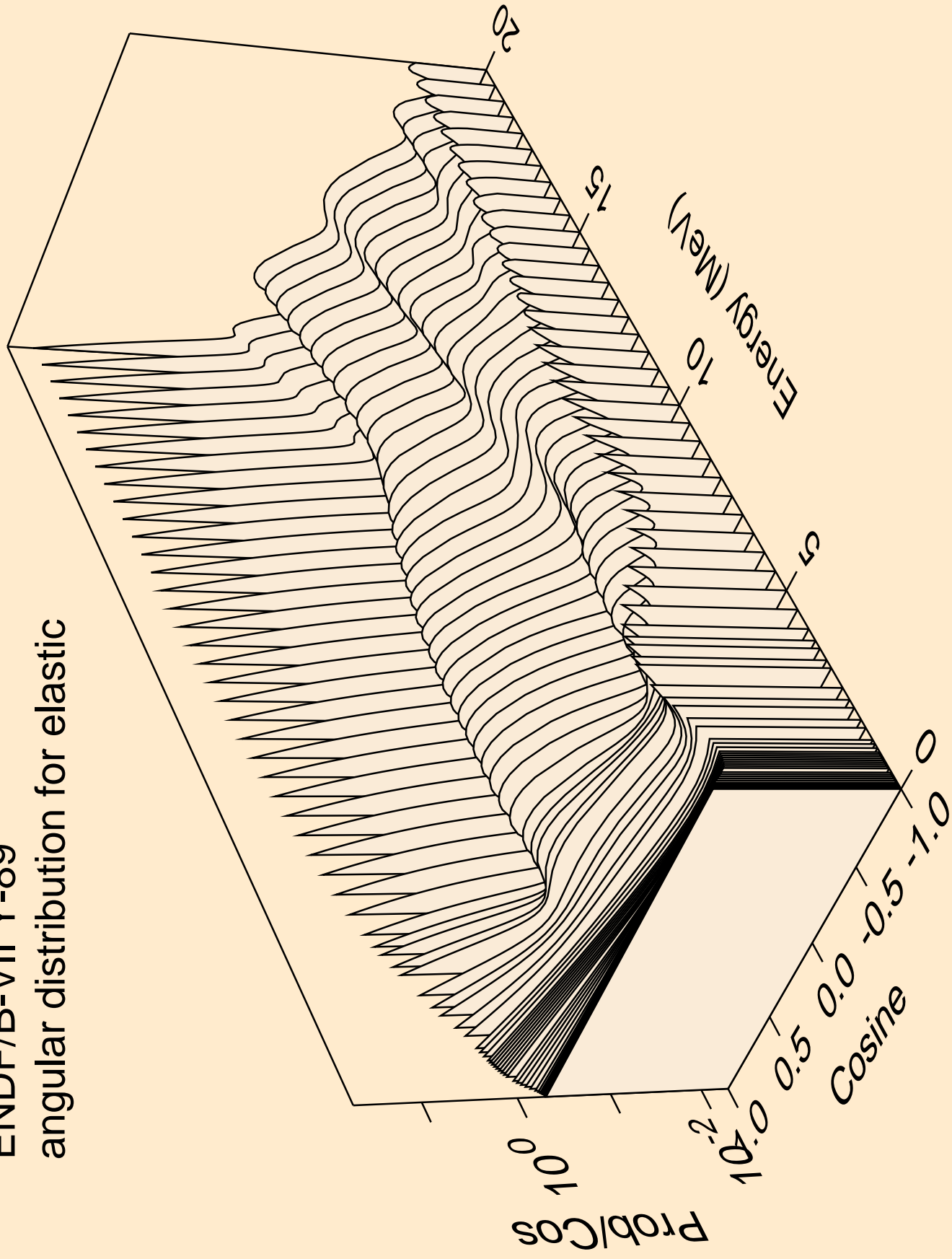


# ENDF/B-VII Y-89

## Threshold reactions

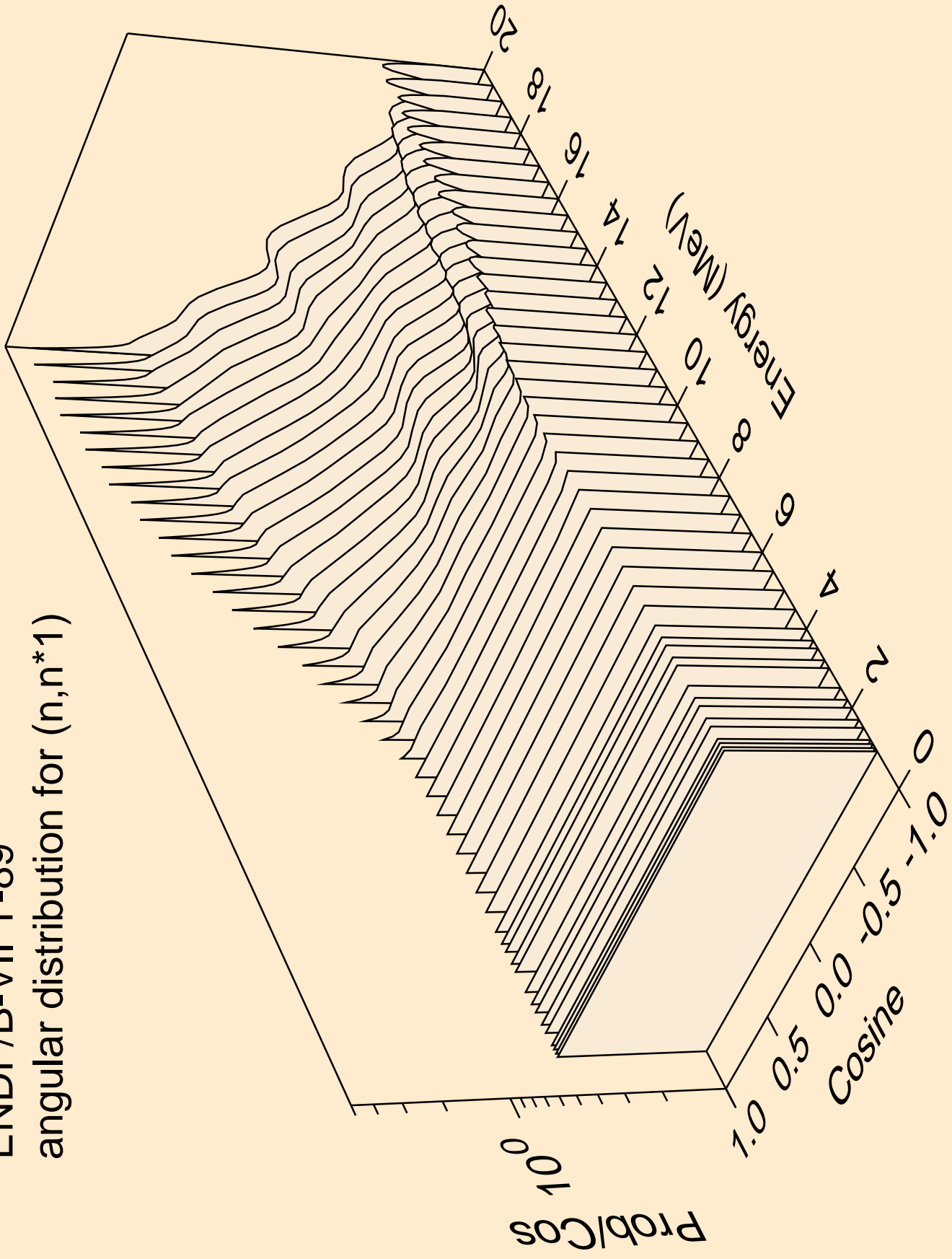


ENDF/B-VII Y-89  
angular distribution for elastic

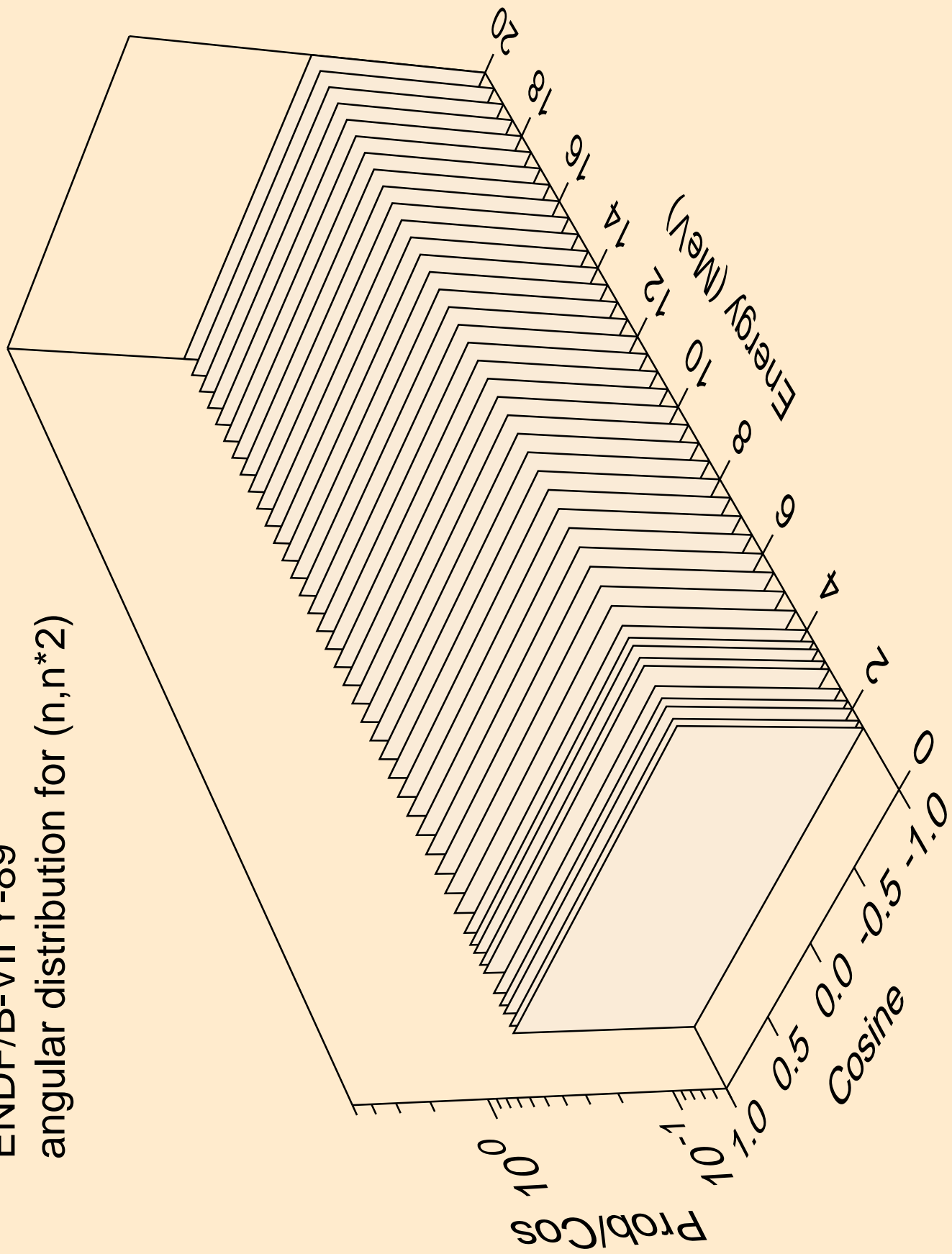




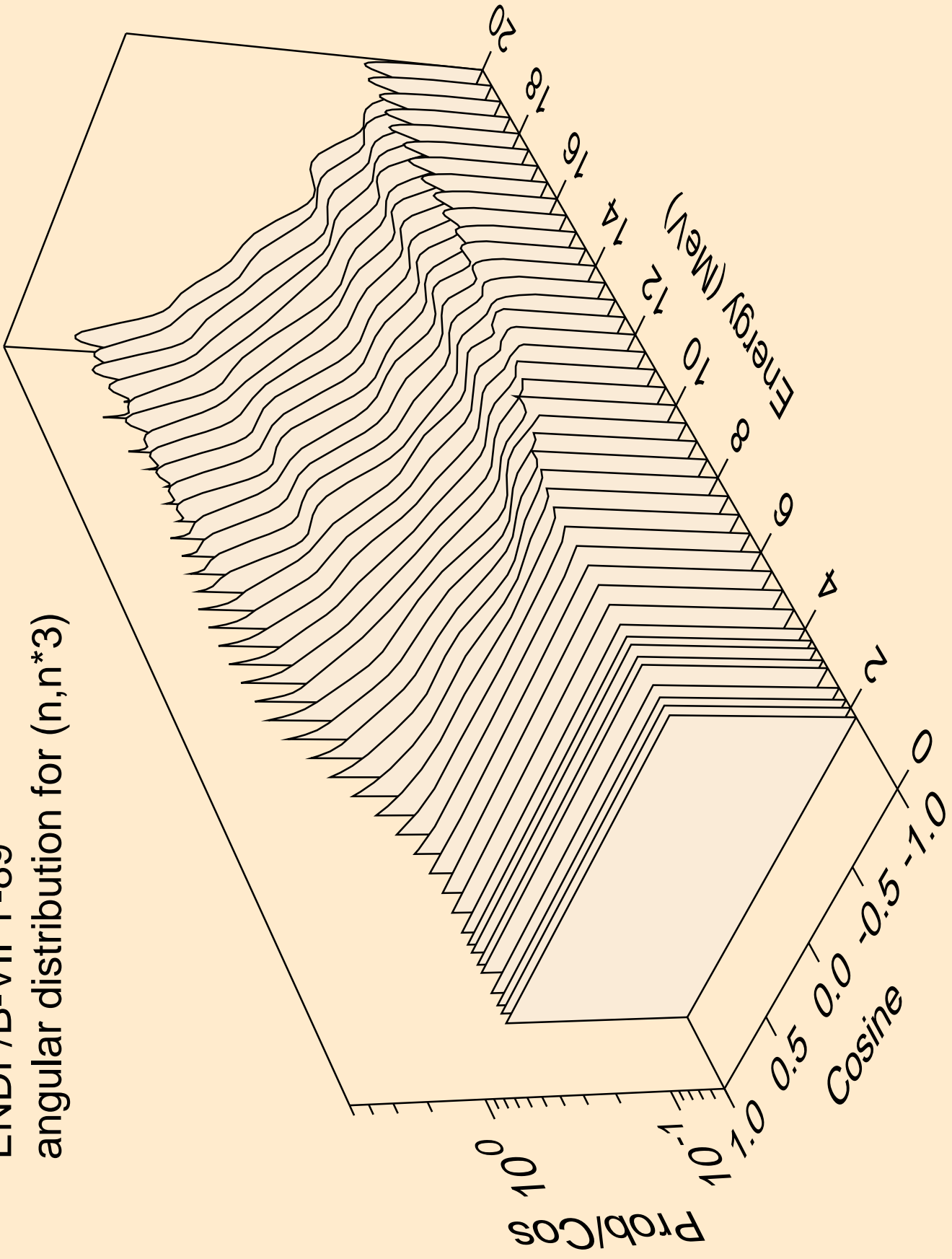
ENDF/B-VII Y-89  
angular distribution for (n,n\*1)



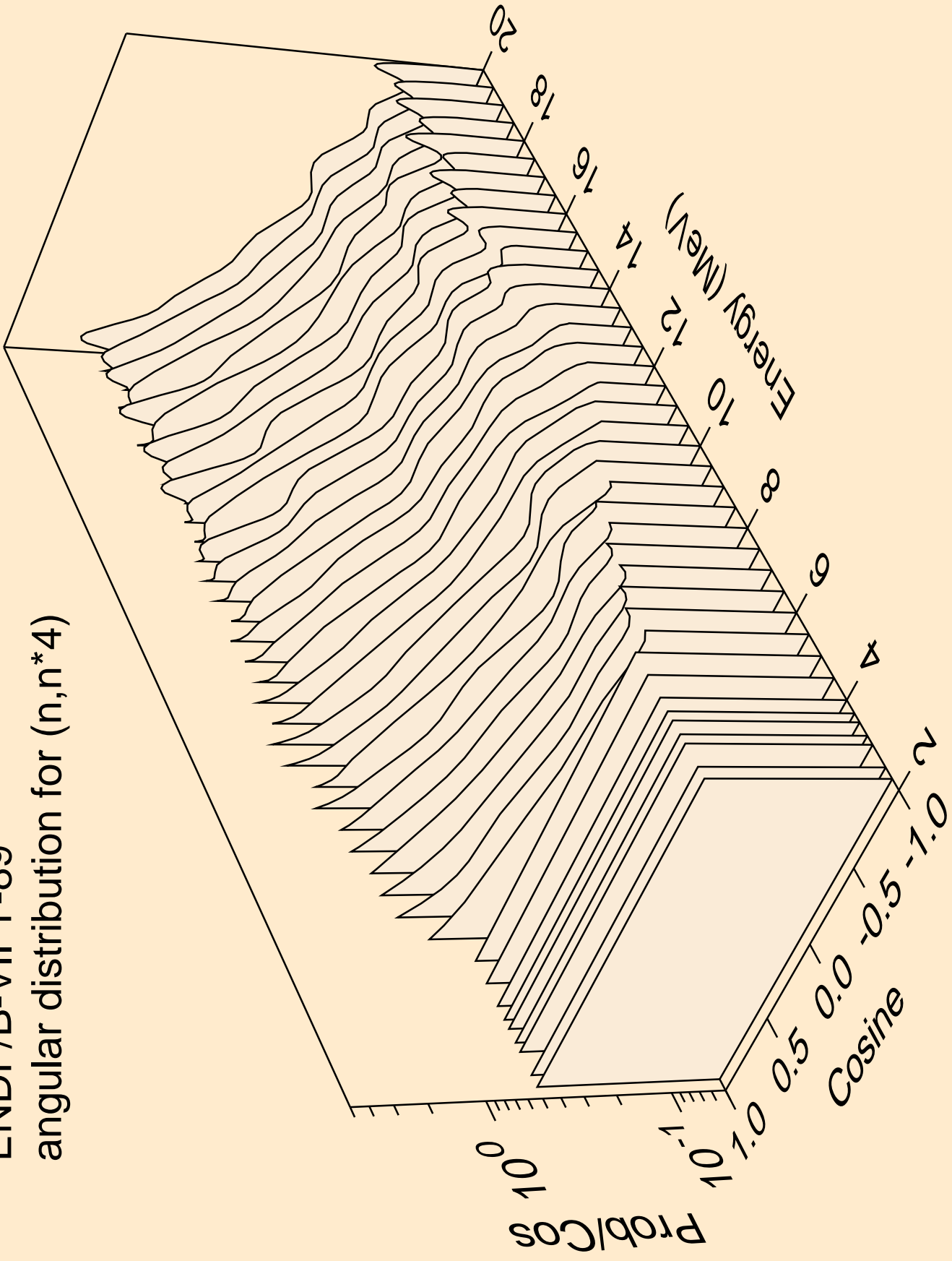
ENDF/B-VII Y-89  
angular distribution for (n,n\*2)



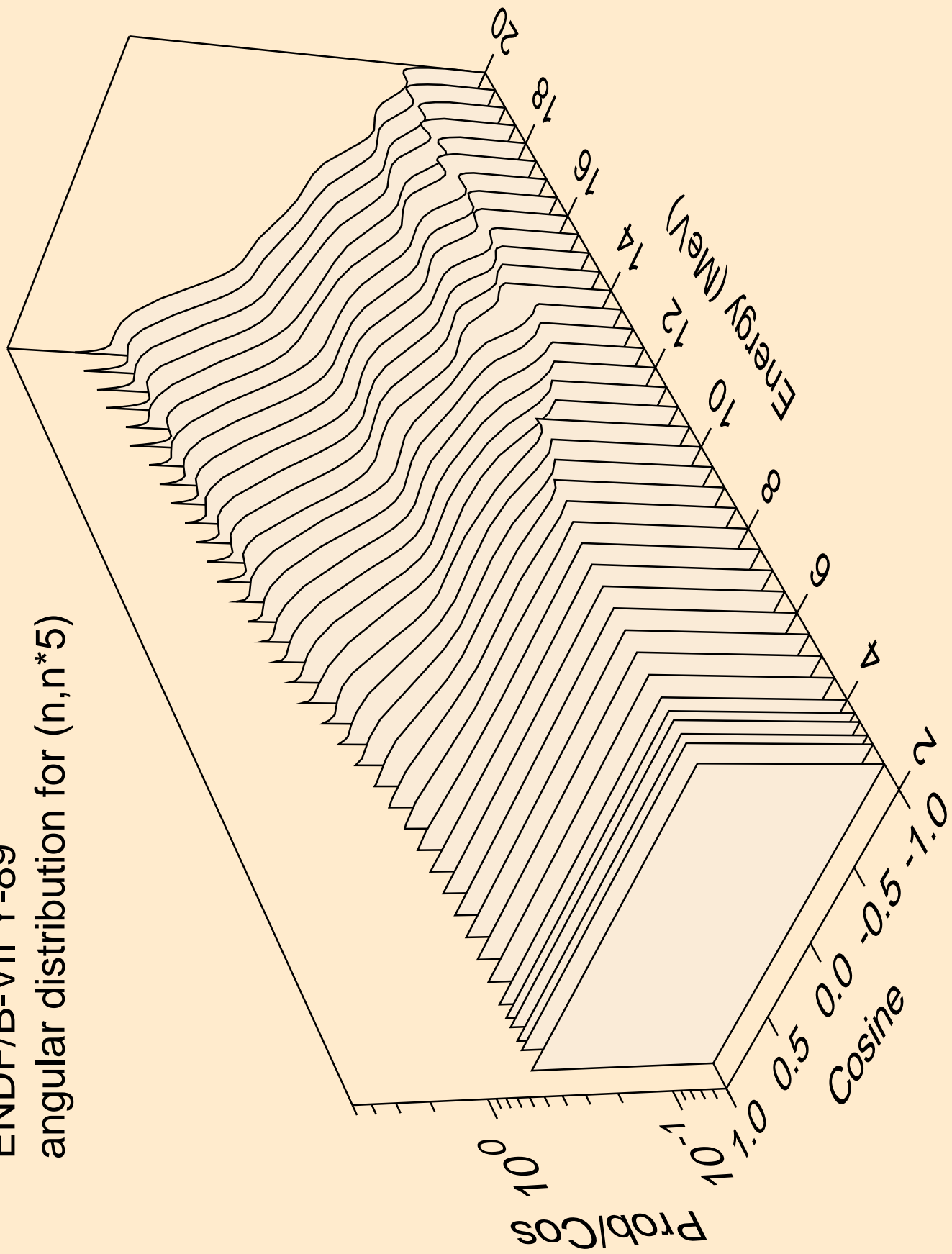
ENDF/B-VII Y-89  
angular distribution for (n,n\*3)



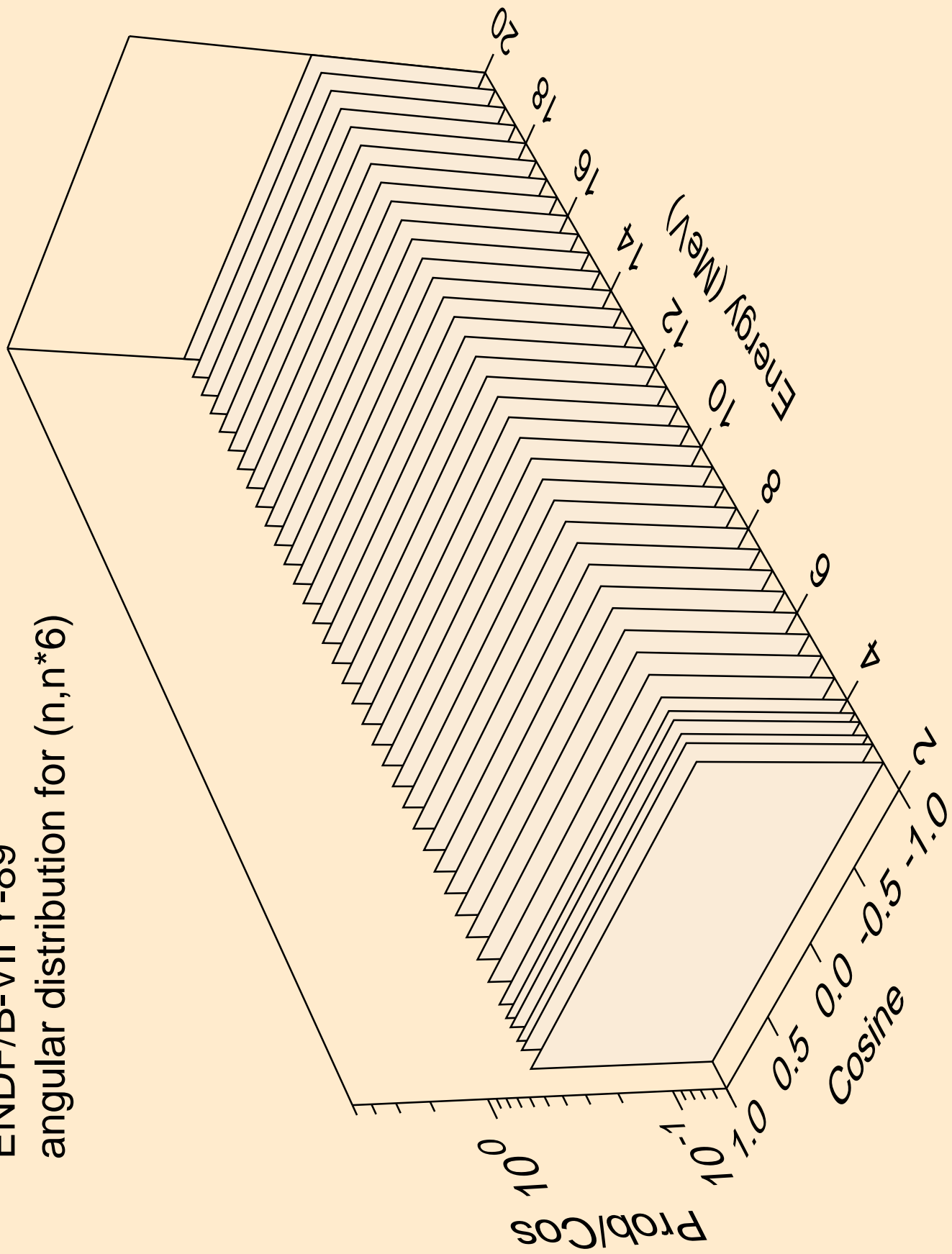
ENDF/B-VII Y-89  
angular distribution for (n,n\*4)



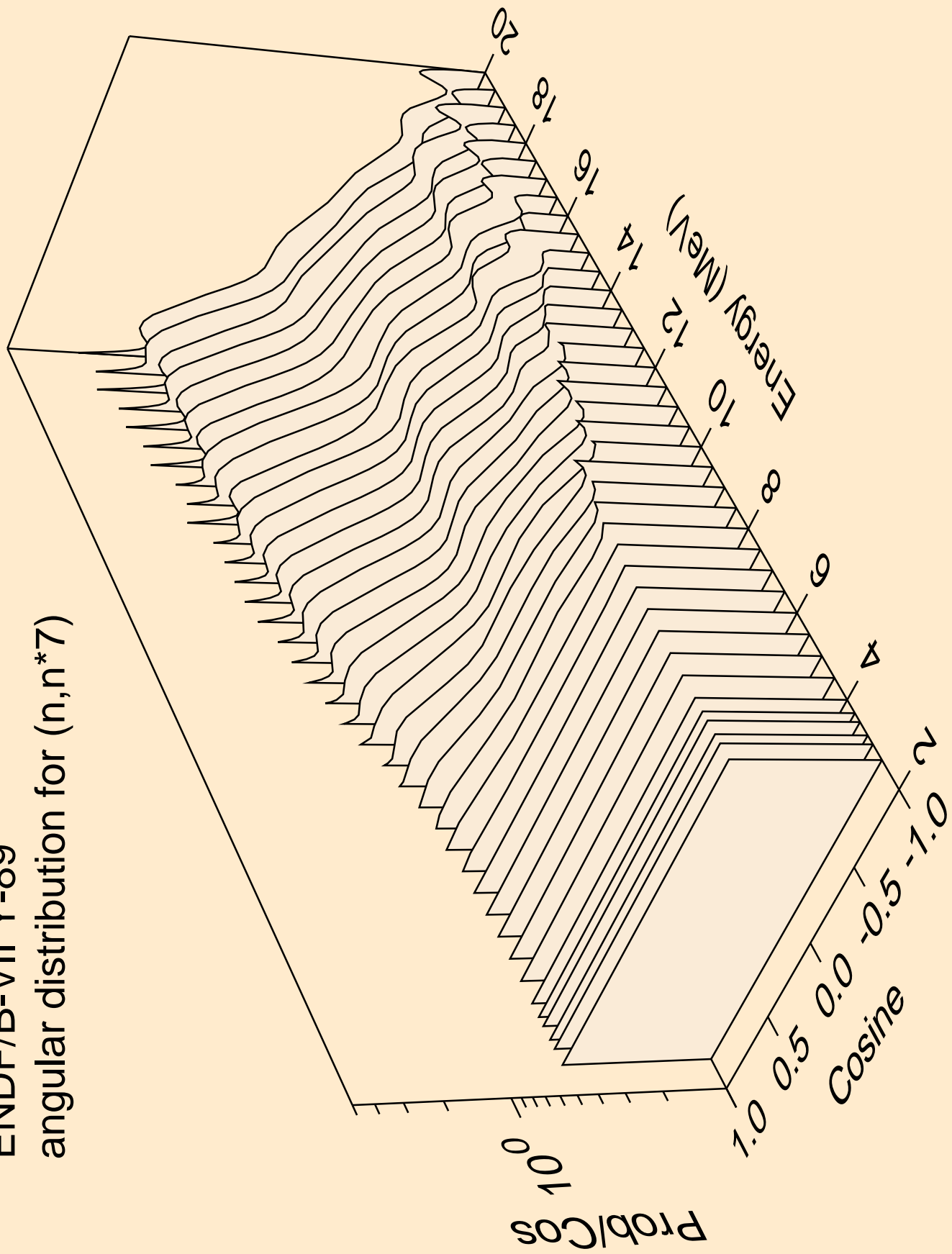
ENDF/B-VII Y-89  
angular distribution for (n,n\*5)



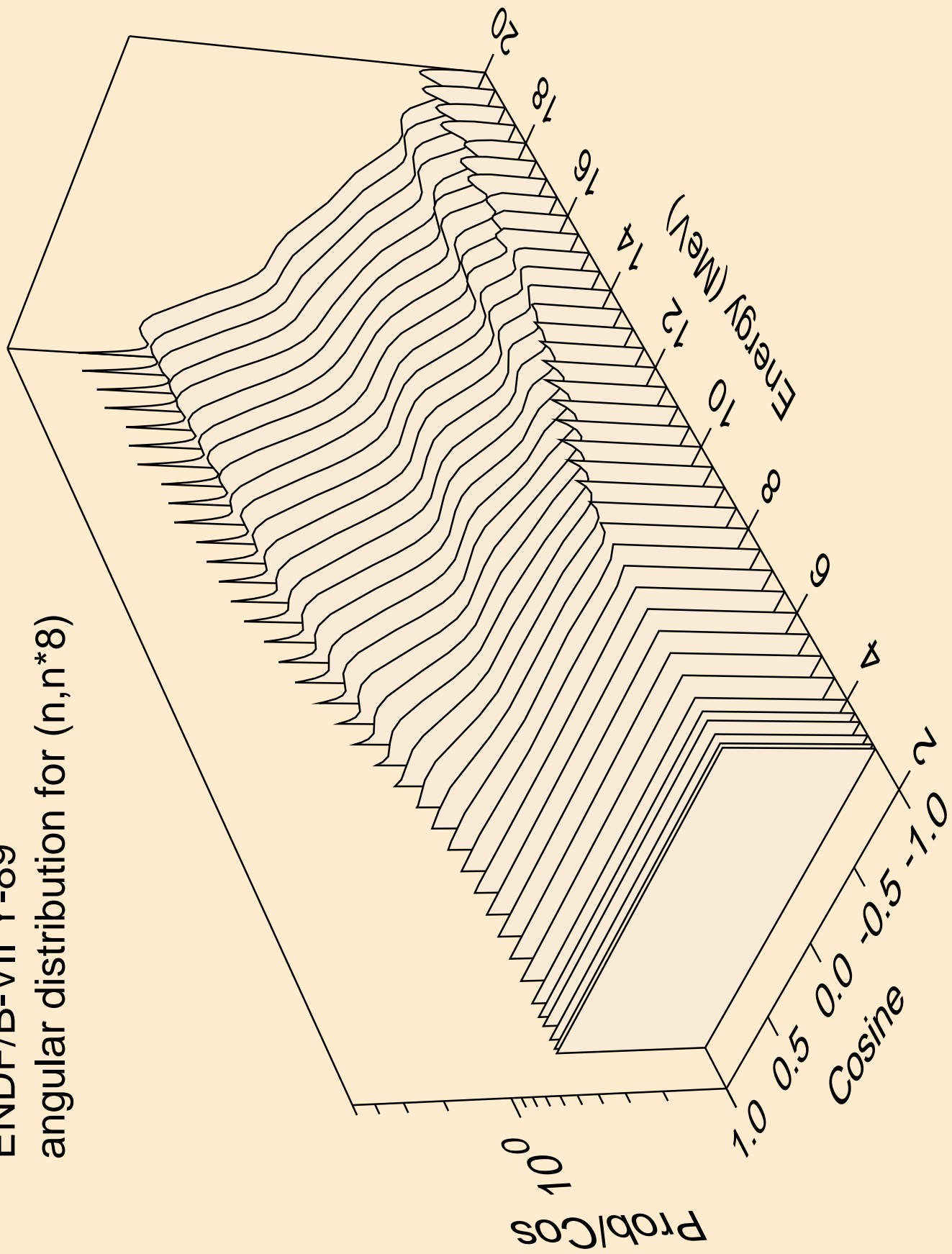
ENDF/B-VII Y-89  
angular distribution for (n,n\*6)



ENDF/B-VII Y-89  
angular distribution for (n,n\*7)

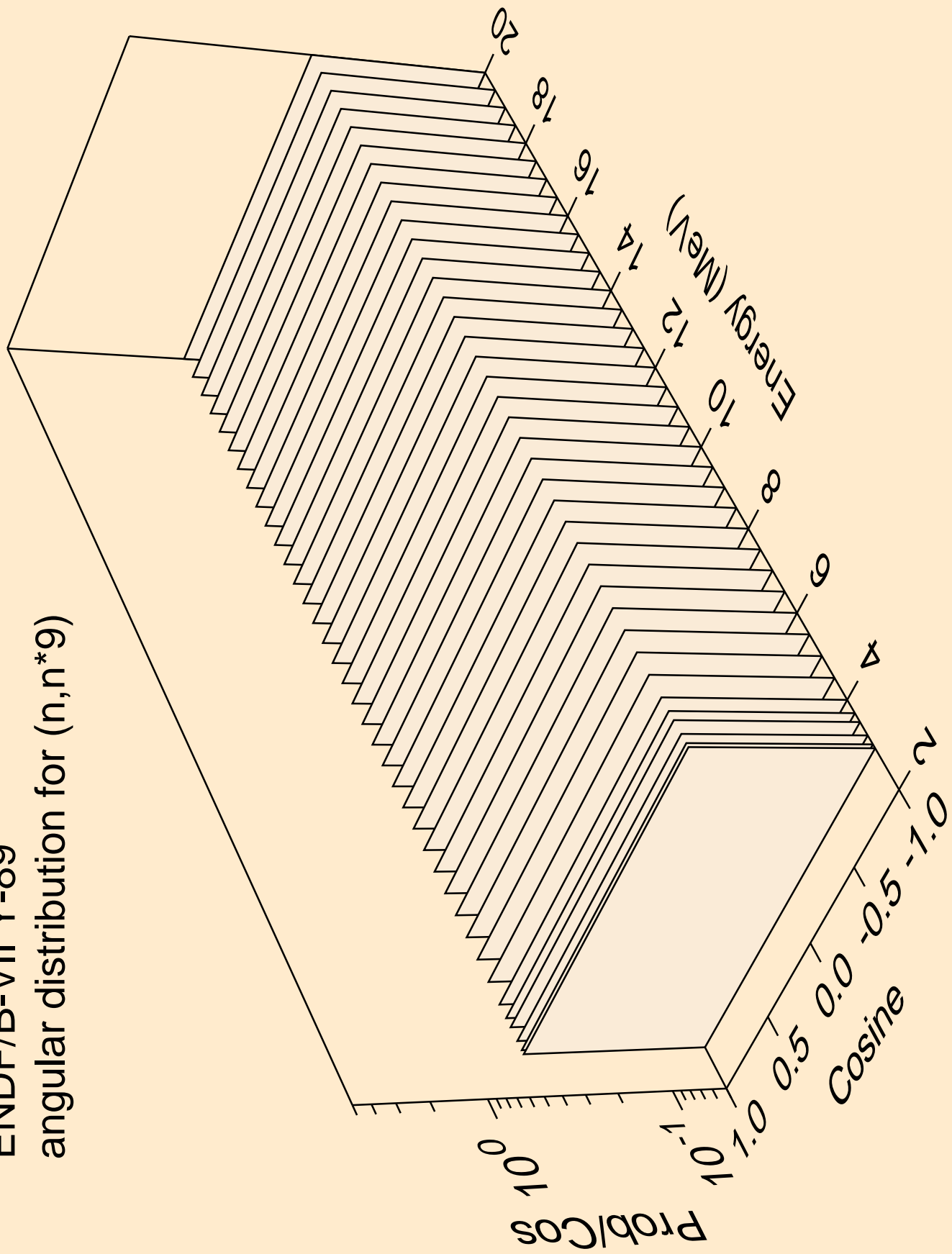


ENDF/B-VII Y-89  
angular distribution for (n,n\*8)

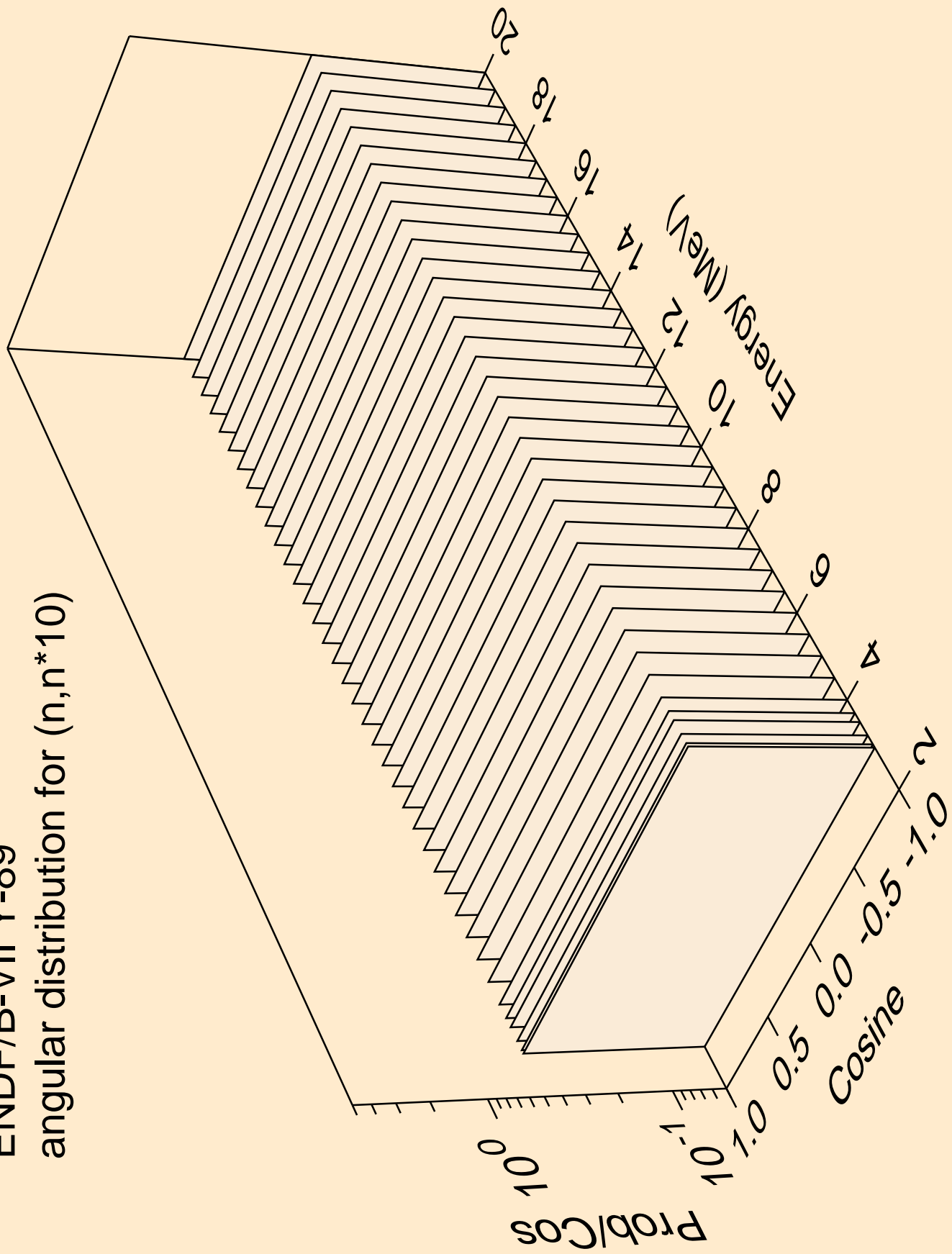




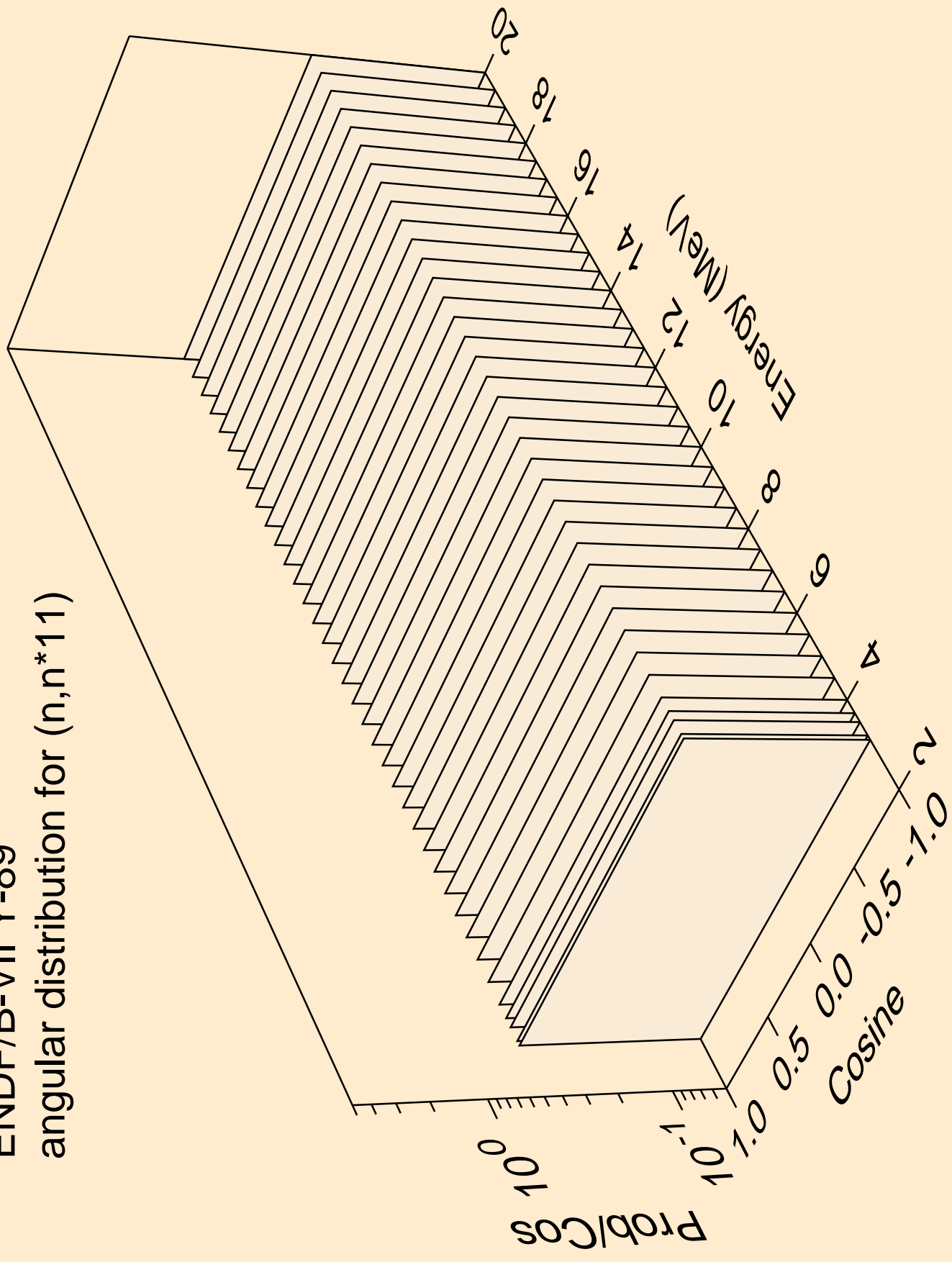
ENDF/B-VII Y-89  
angular distribution for (n,n\*9)



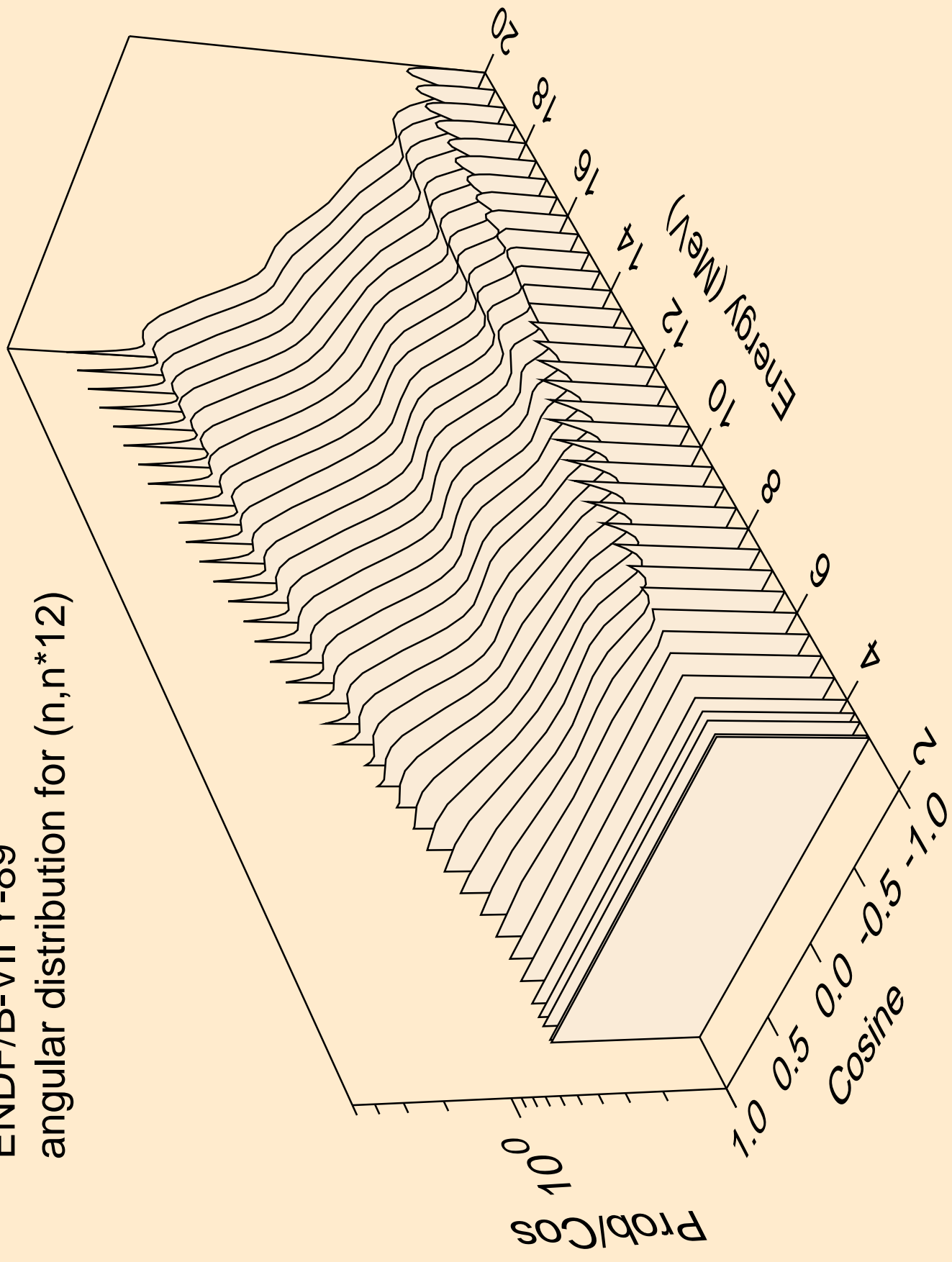
ENDF/B-VII Y-89  
angular distribution for (n,n\*10)



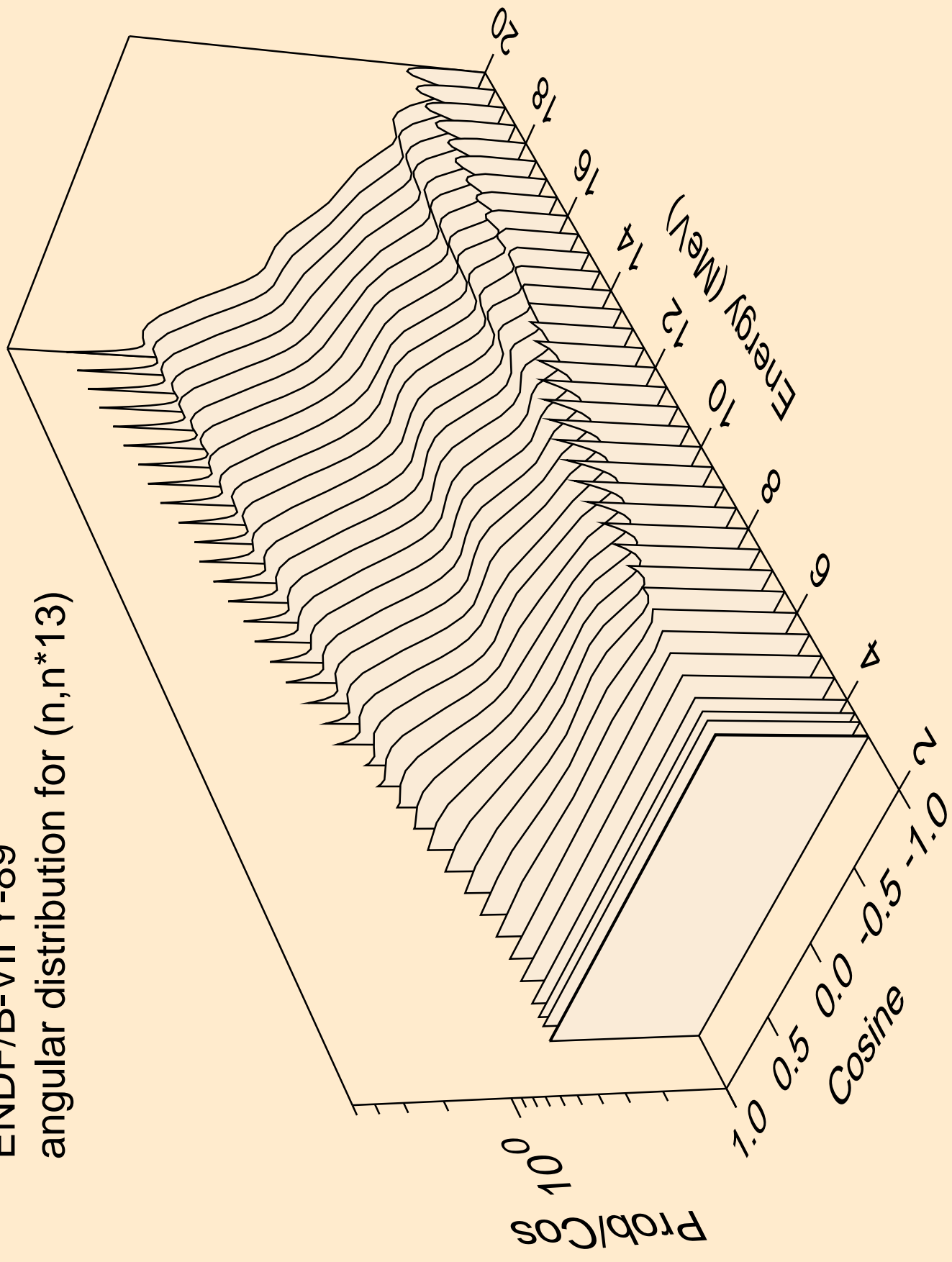
ENDF/B-VII Y-89  
angular distribution for (n,n\*11)



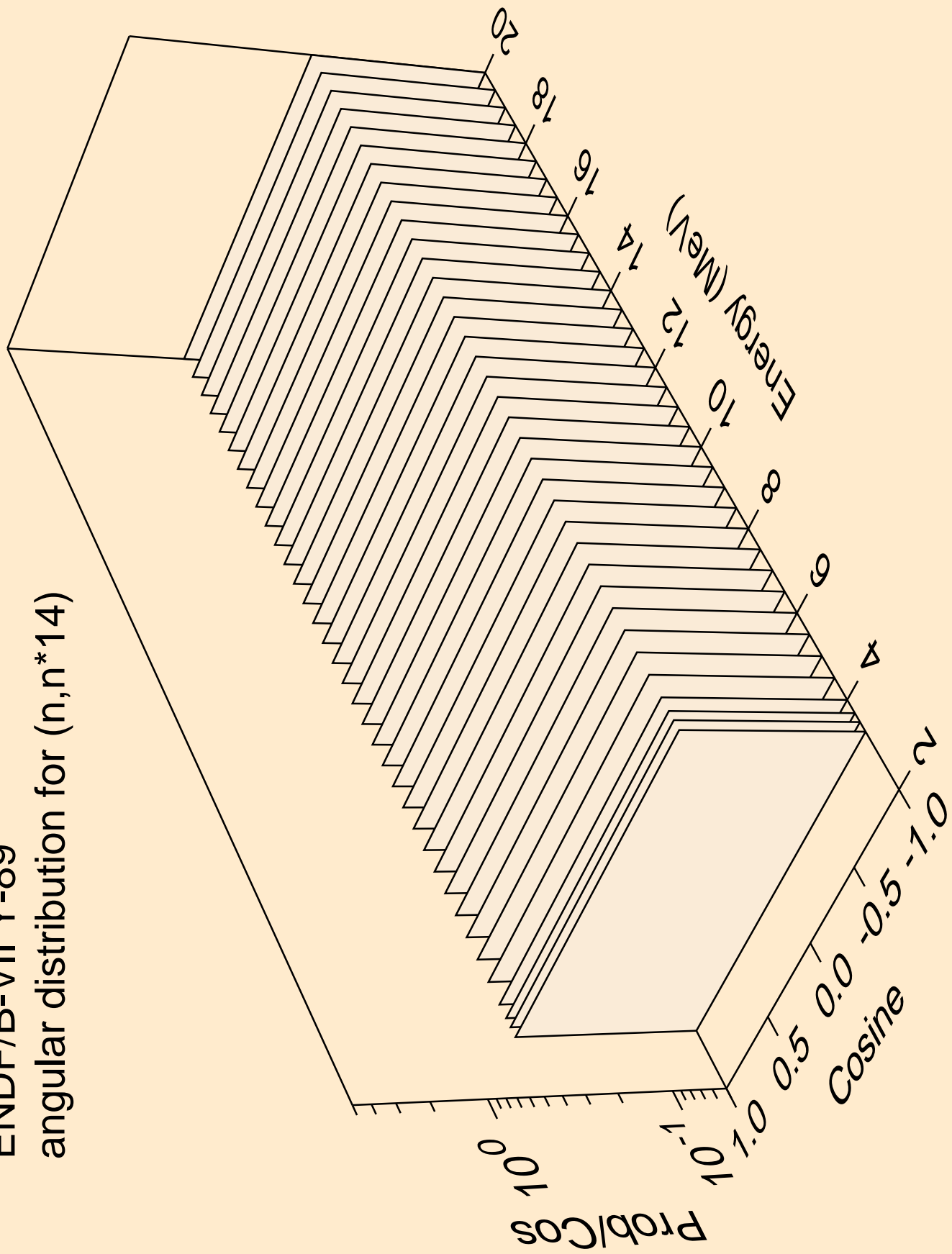
ENDF/B-VII Y-89  
angular distribution for (n,n\*12)



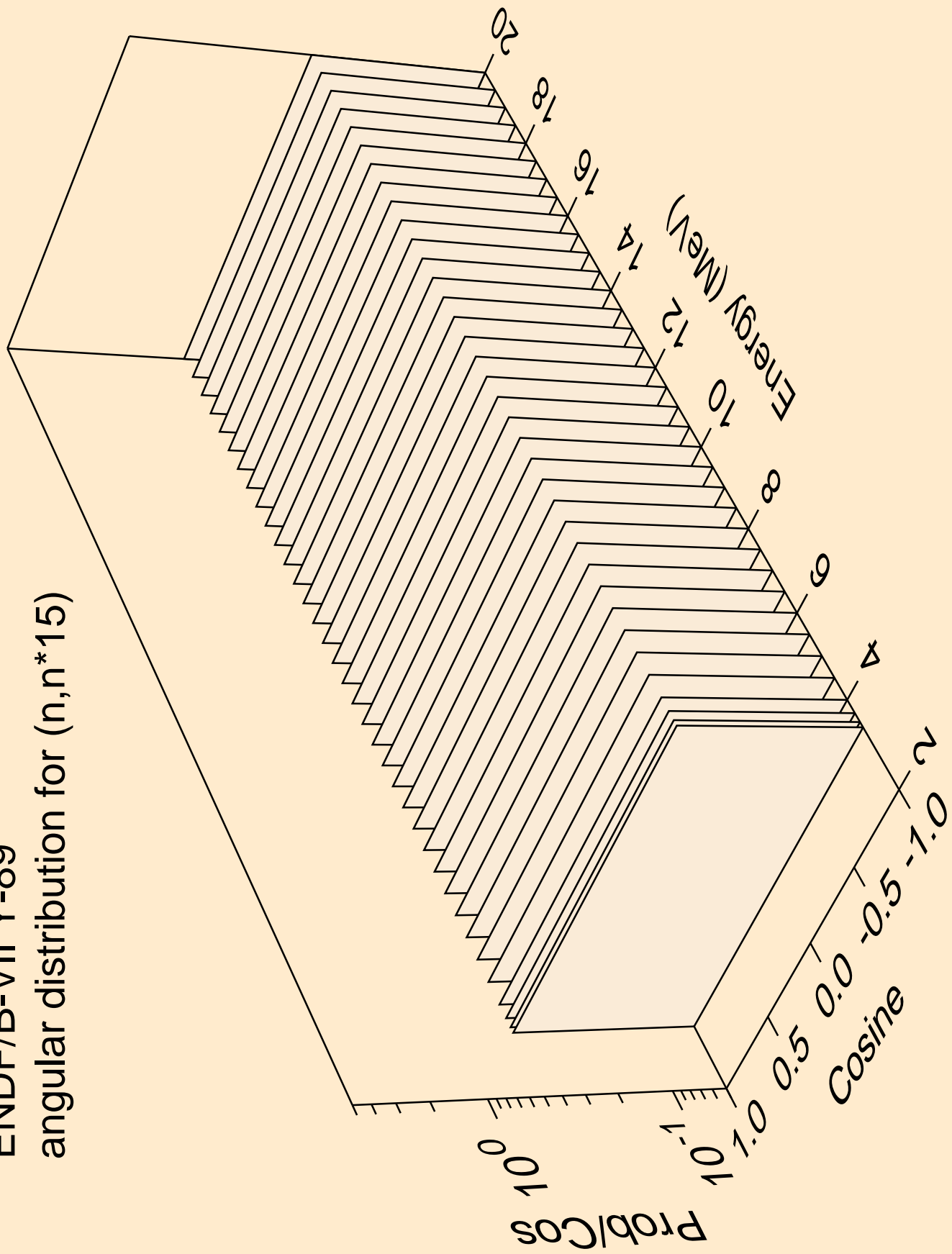
ENDF/B-VII Y-89  
angular distribution for (n,n\*13)



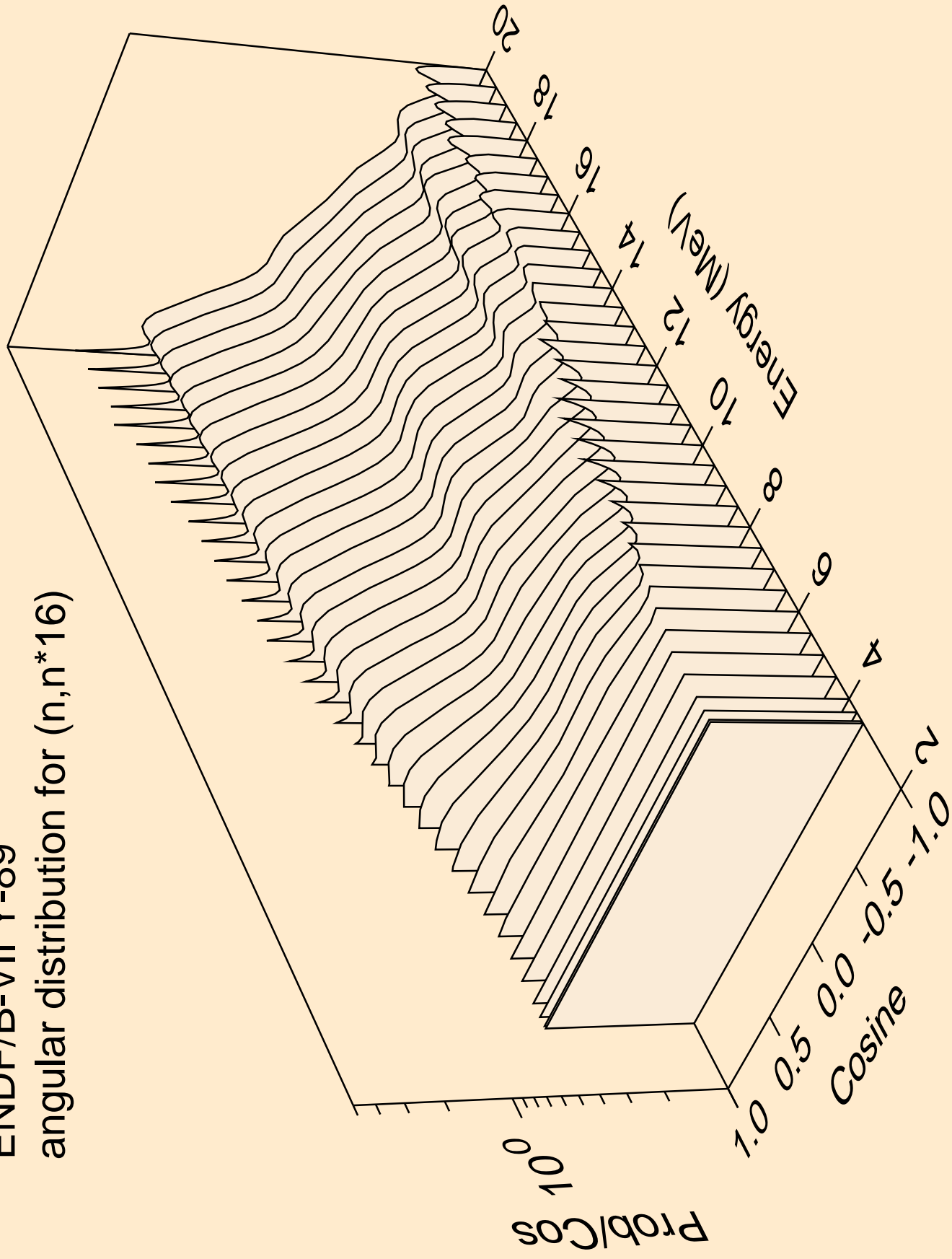
ENDF/B-VII Y-89  
angular distribution for (n,n\*14)



ENDF/B-VII Y-89  
angular distribution for (n,n\*15)

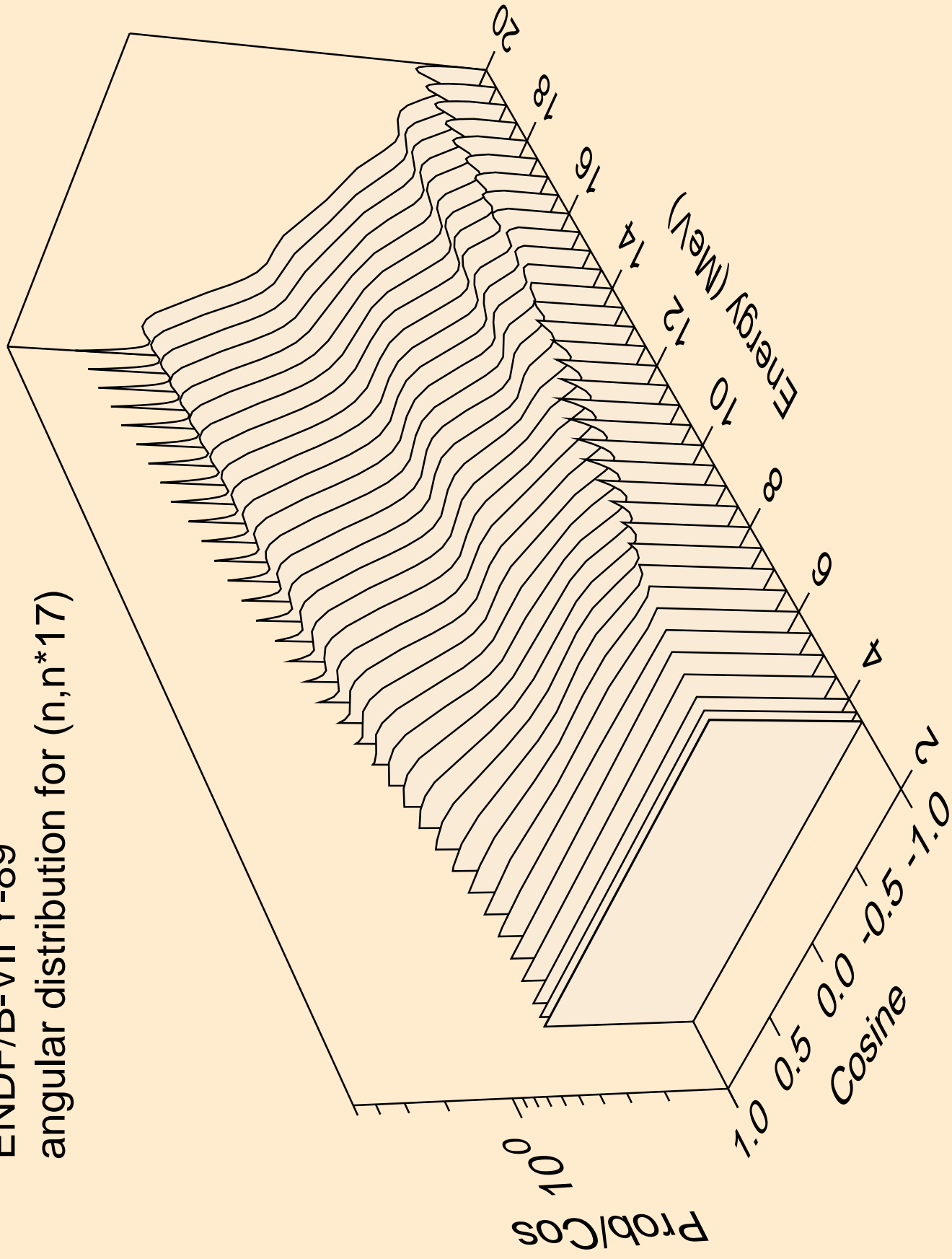


ENDF/B-VII Y-89  
angular distribution for (n,n\*16)

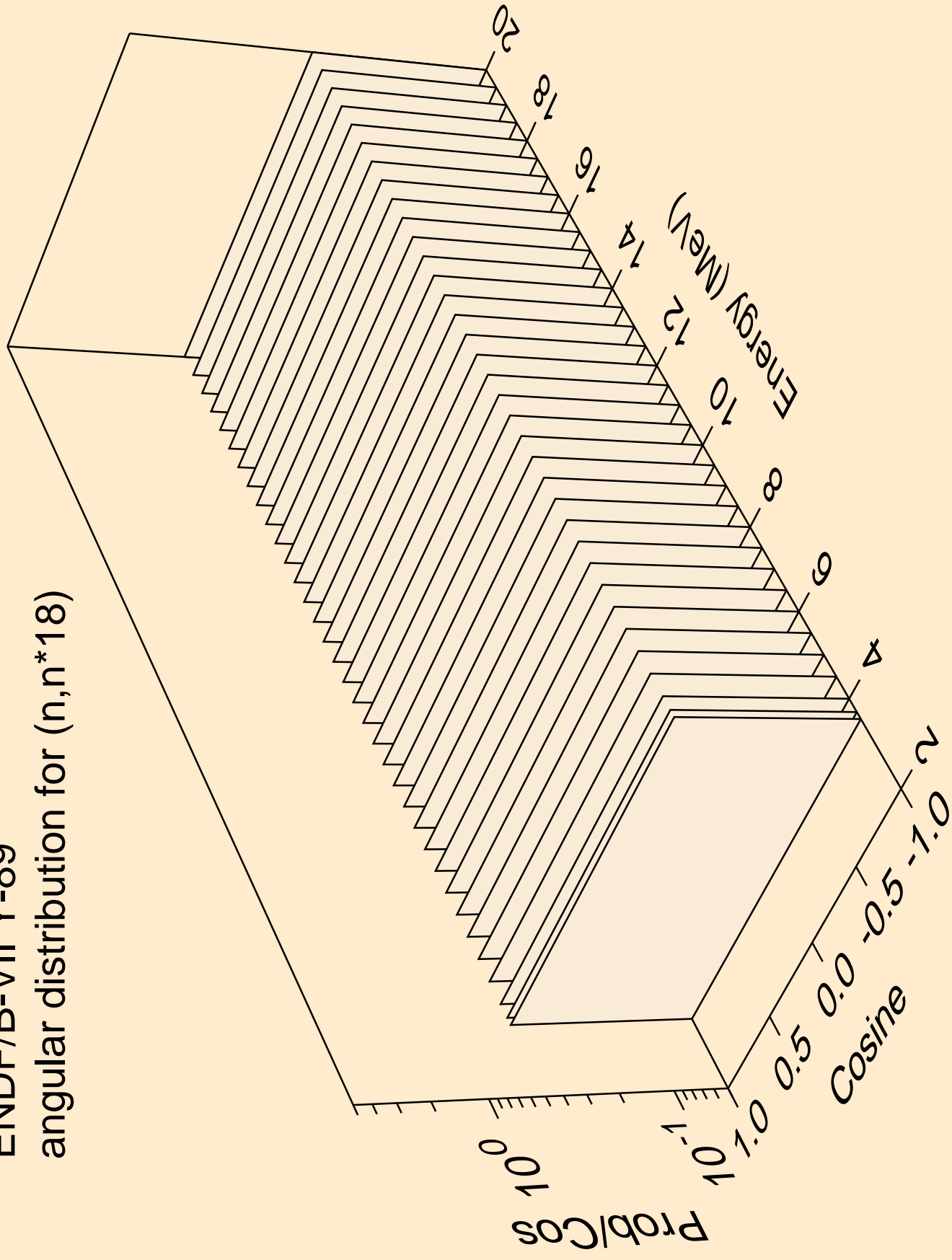




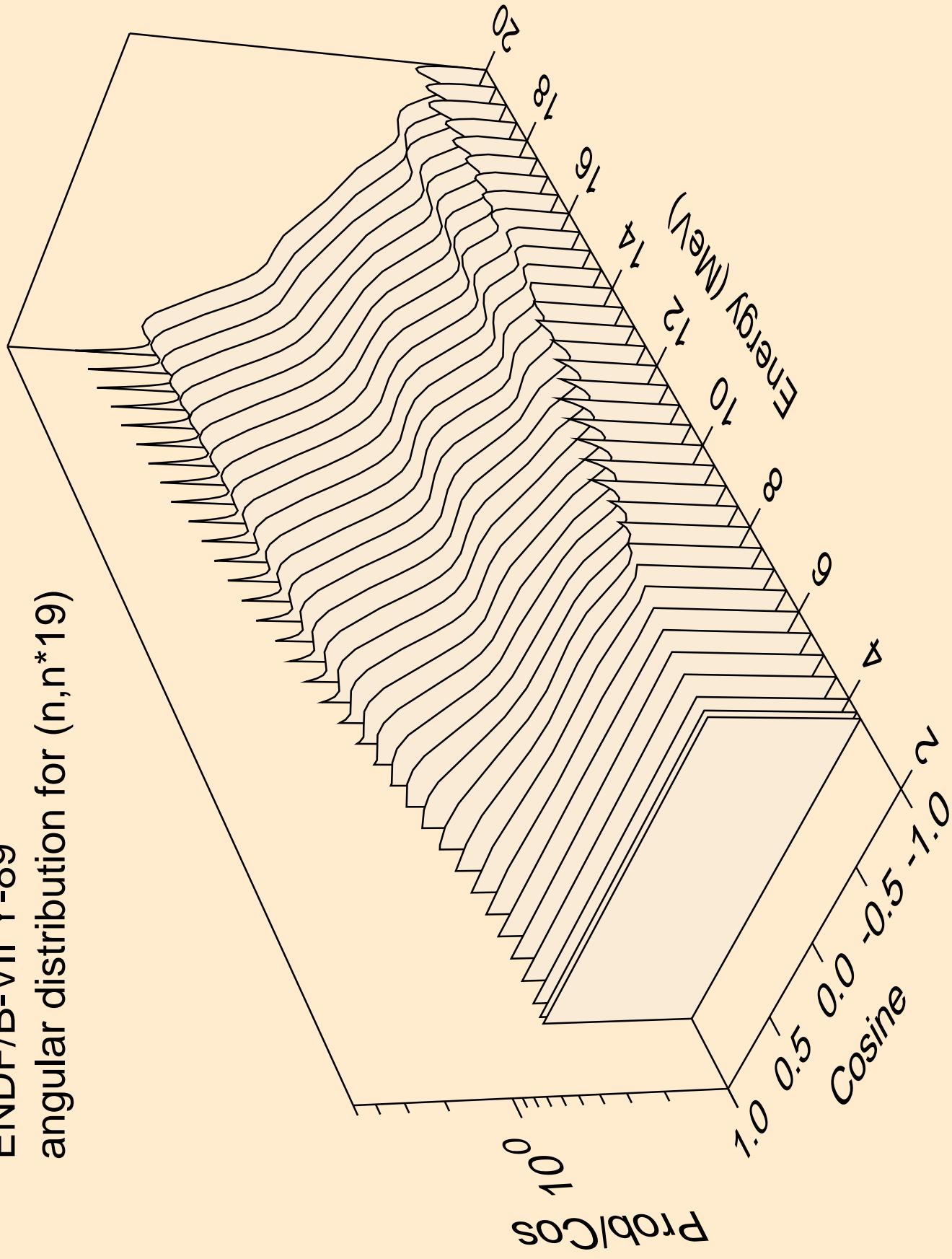
ENDF/B-VII Y-89  
angular distribution for (n,n\*17)



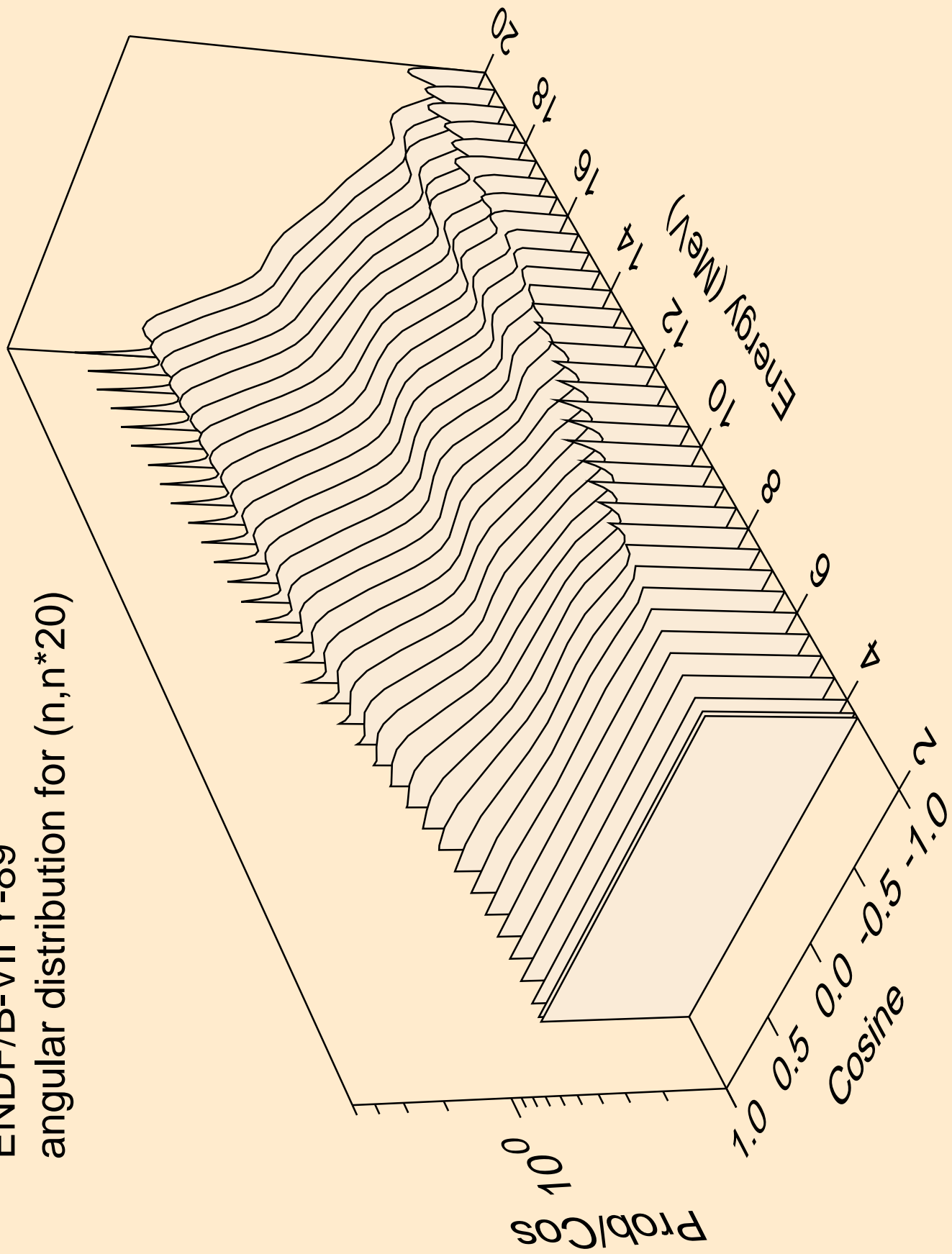
ENDF/B-VII Y-89  
angular distribution for (n,n\*18)



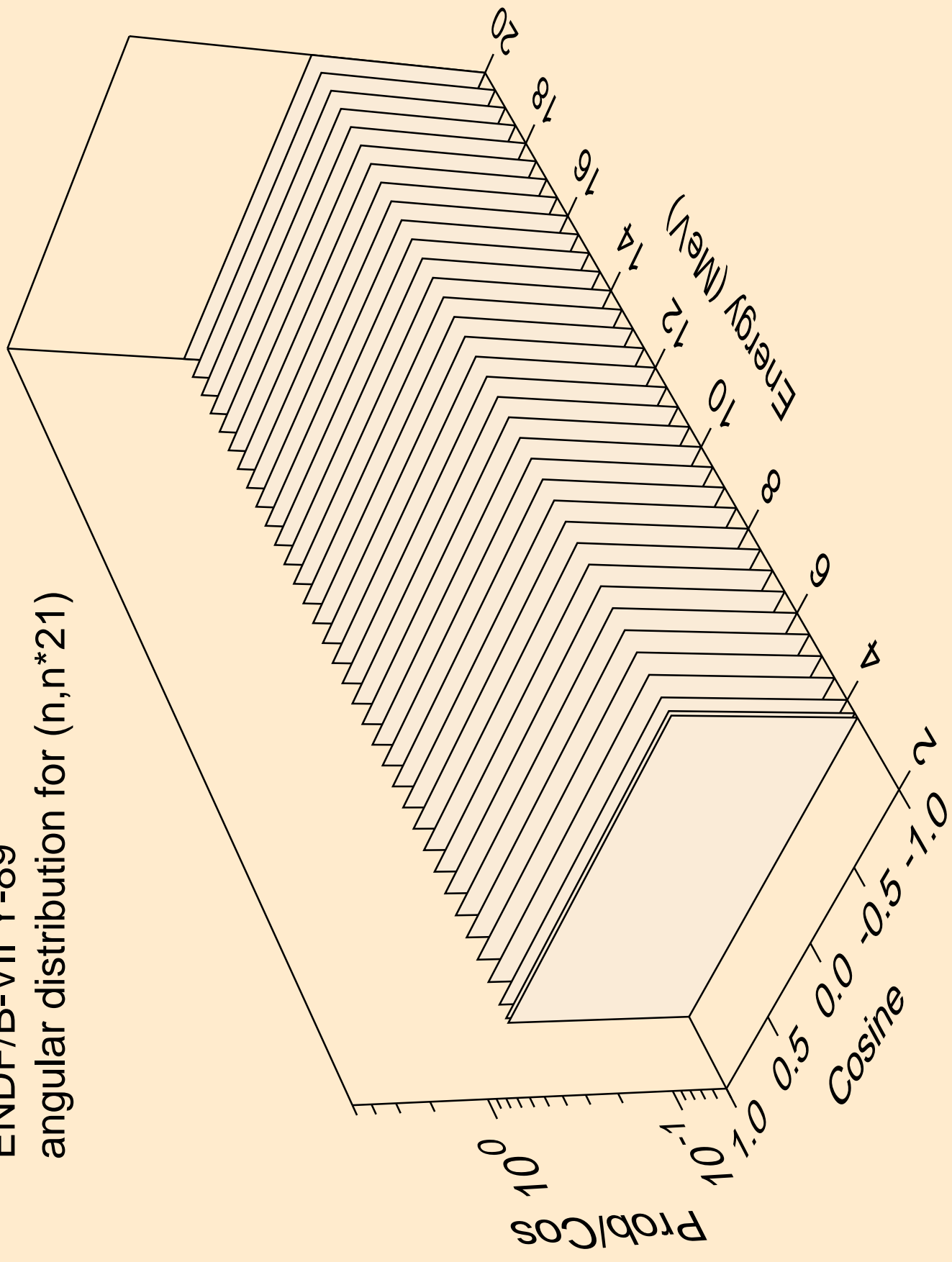
ENDF/B-VII Y-89  
angular distribution for (n,n\*19)



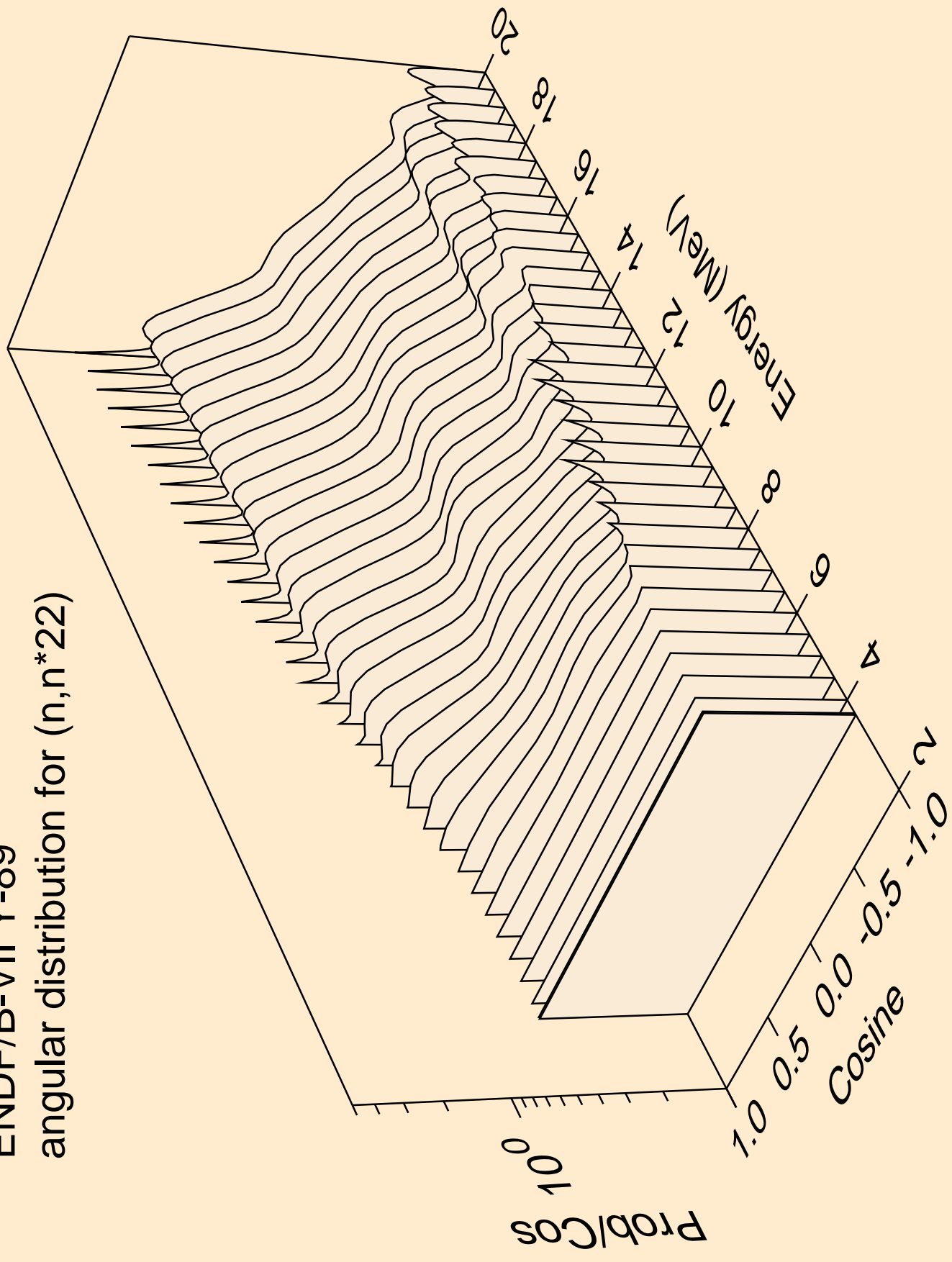
ENDF/B-VII Y-89  
angular distribution for (n,n\*20)



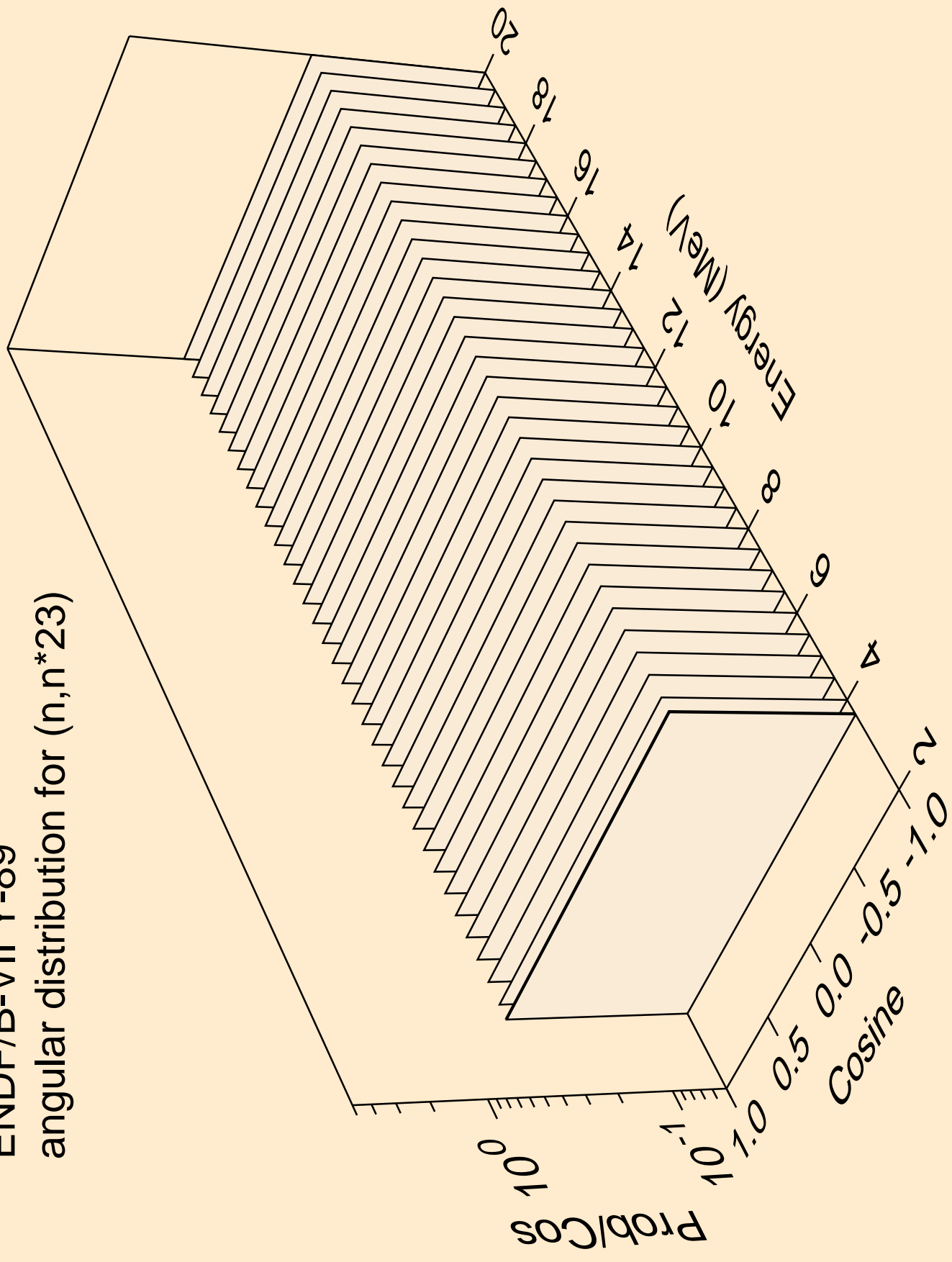
ENDF/B-VII Y-89  
angular distribution for (n,n\*21)



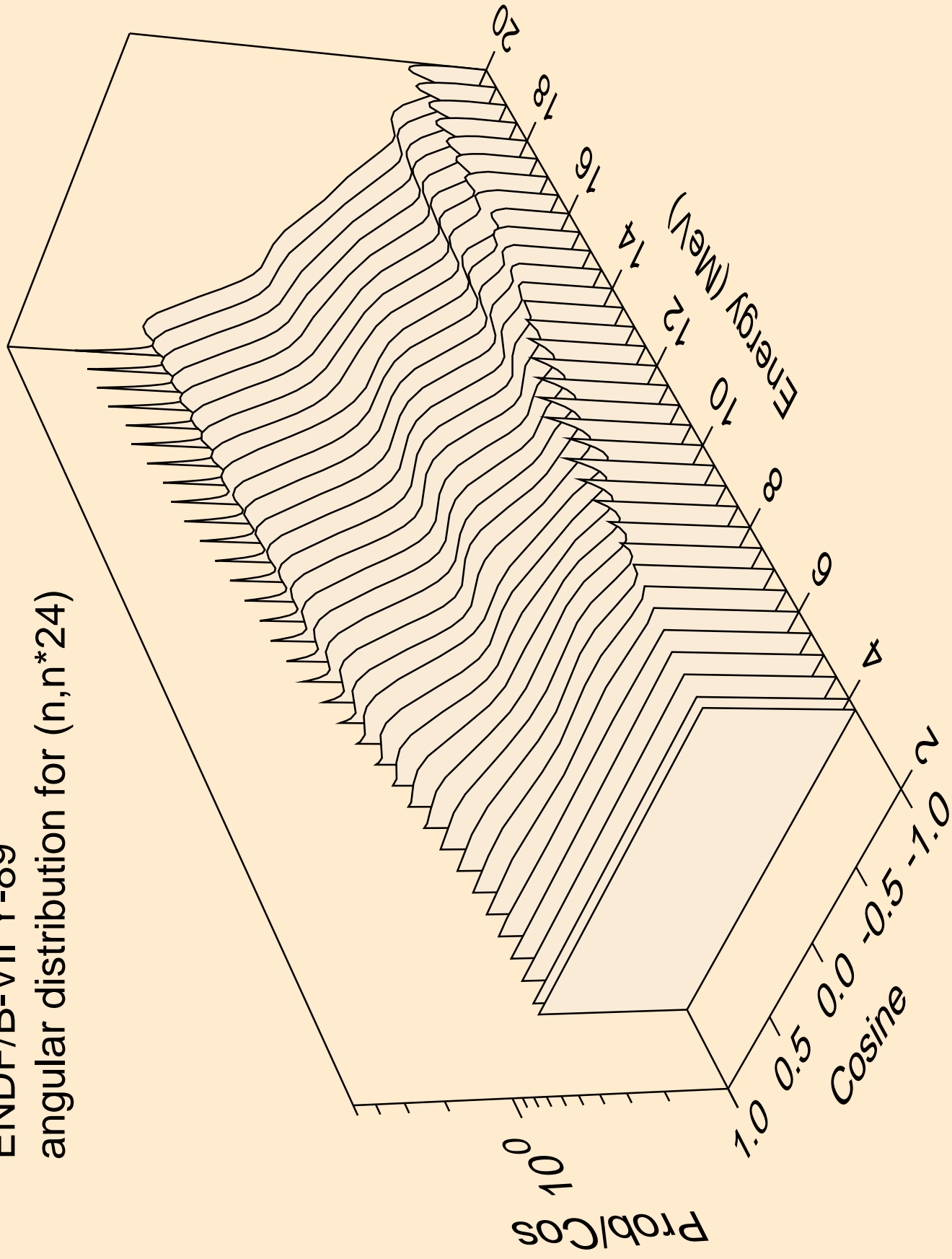
ENDF/B-VII Y-89  
angular distribution for (n,n\*22)



ENDF/B-VII Y-89  
angular distribution for (n,n\*23)

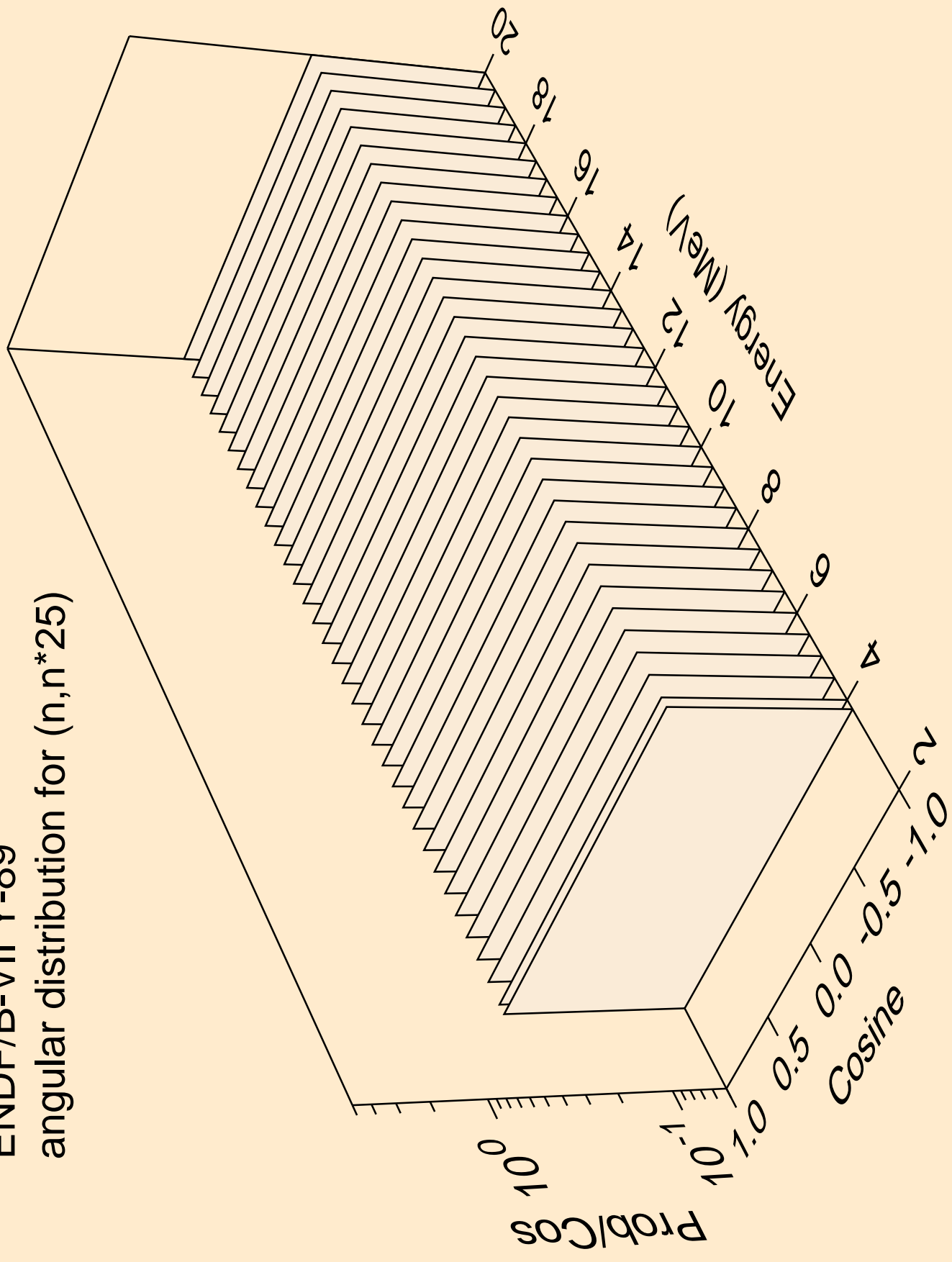


ENDF/B-VII Y-89  
angular distribution for (n,n\*24)

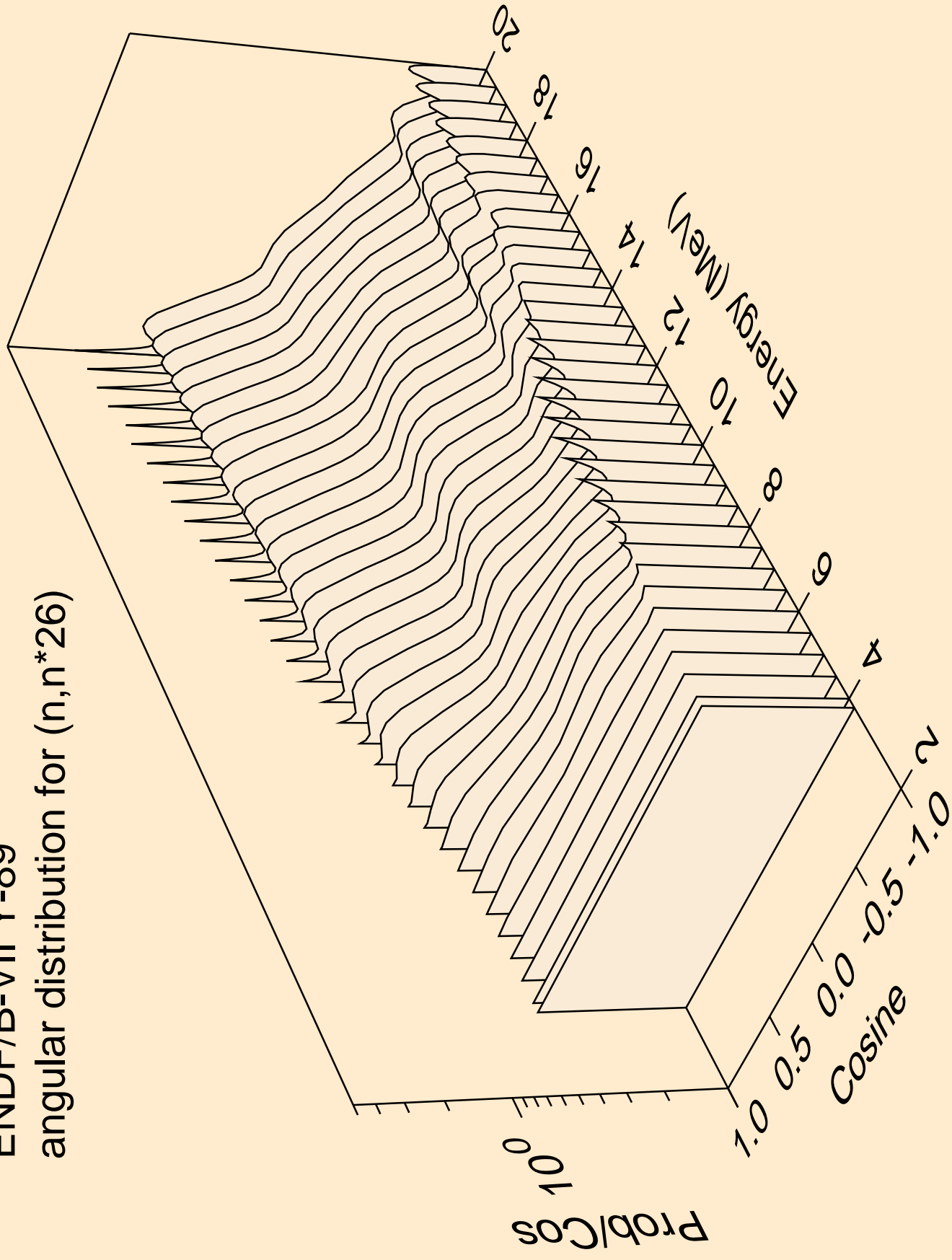




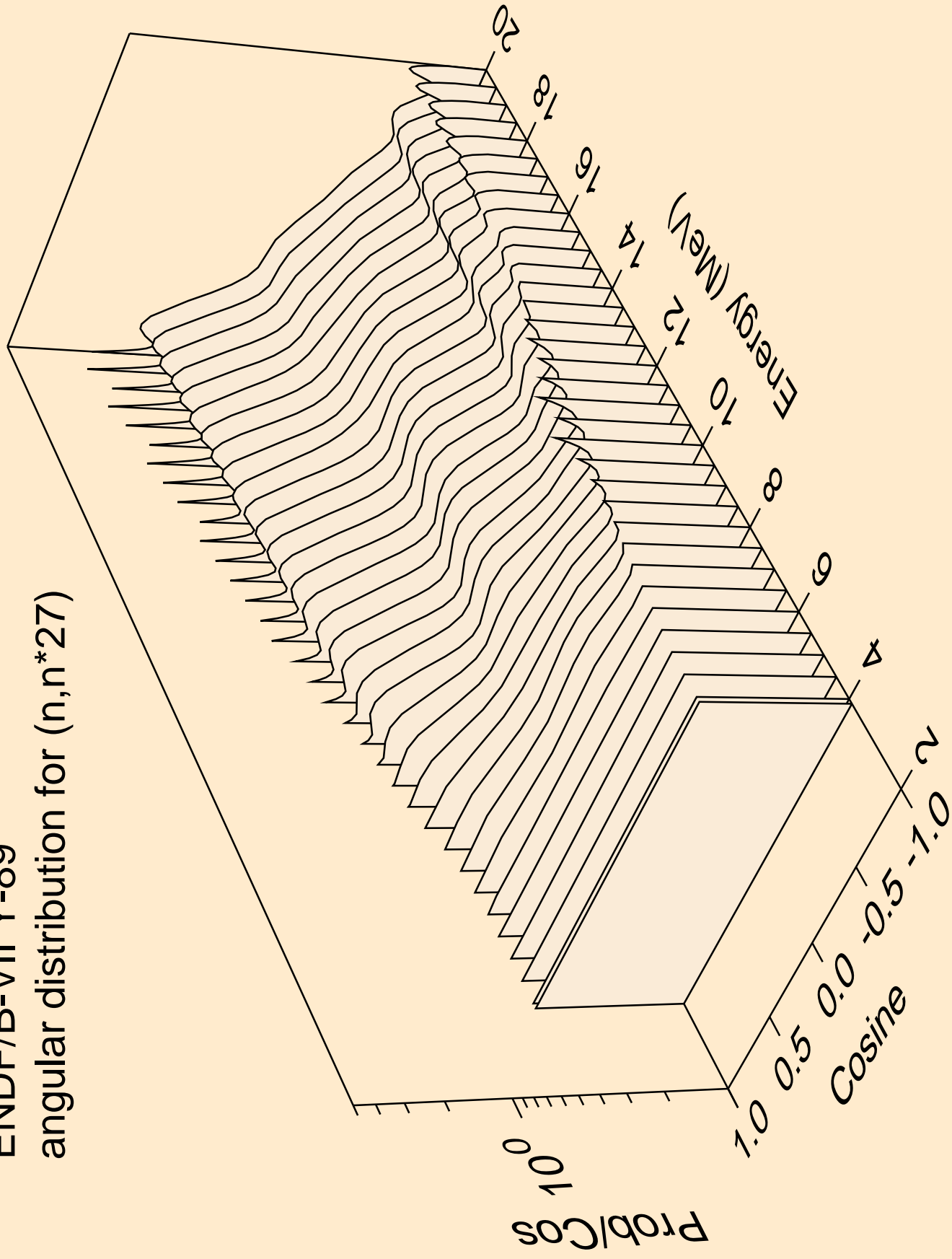
ENDF/B-VII Y-89  
angular distribution for (n,n\*25)



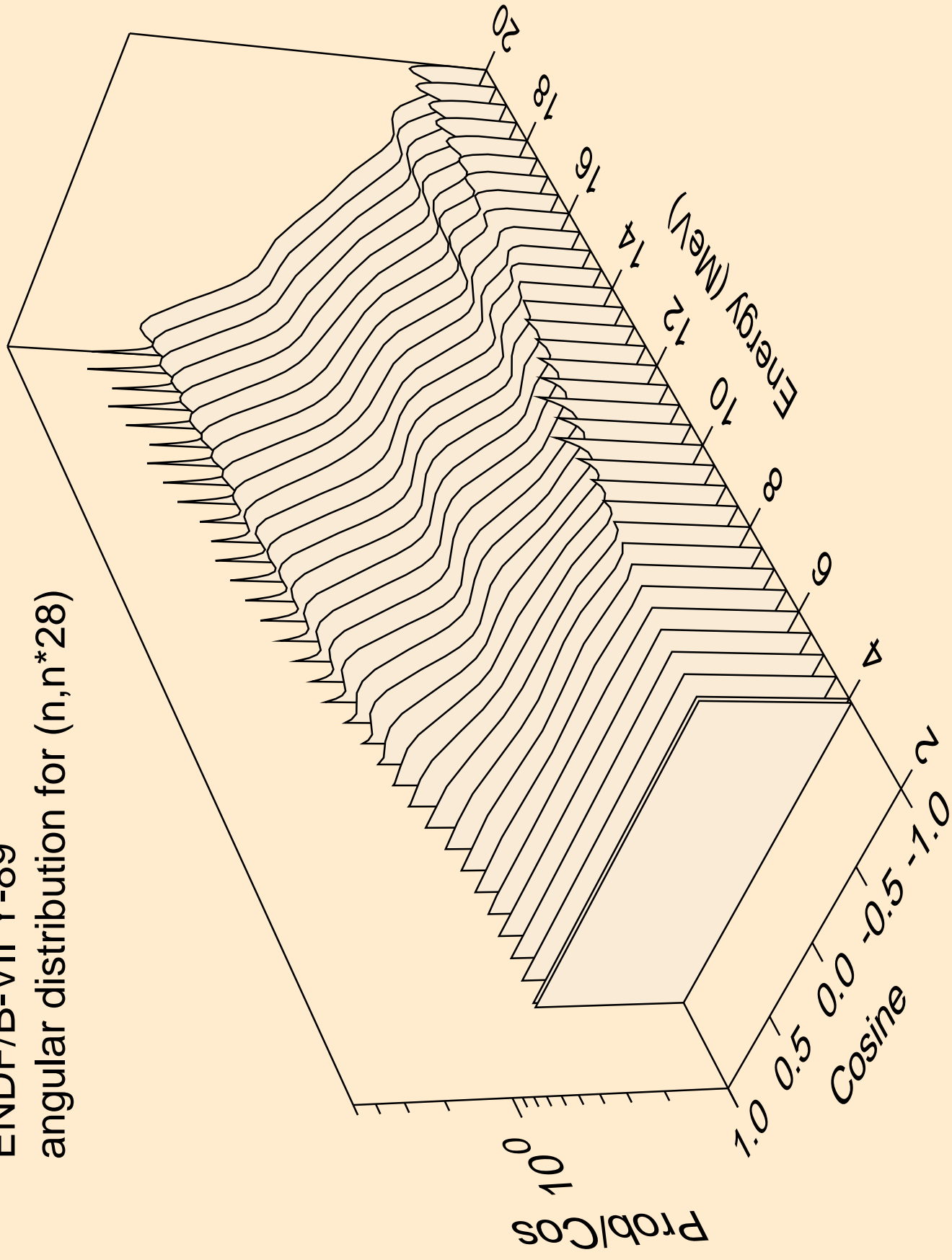
ENDF/B-VII Y-89  
angular distribution for (n,n\*26)



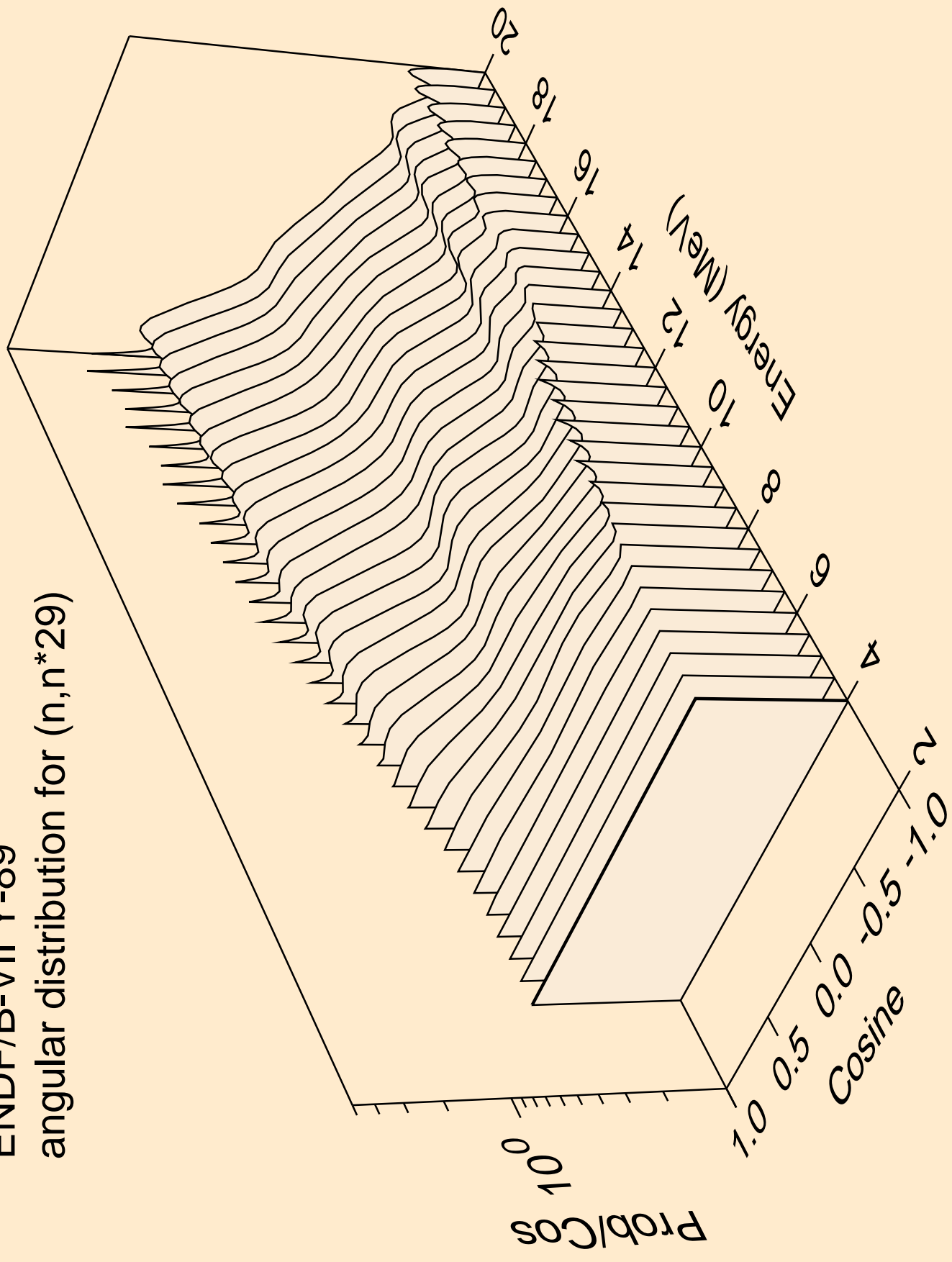
ENDF/B-VII Y-89  
angular distribution for (n,n\*27)



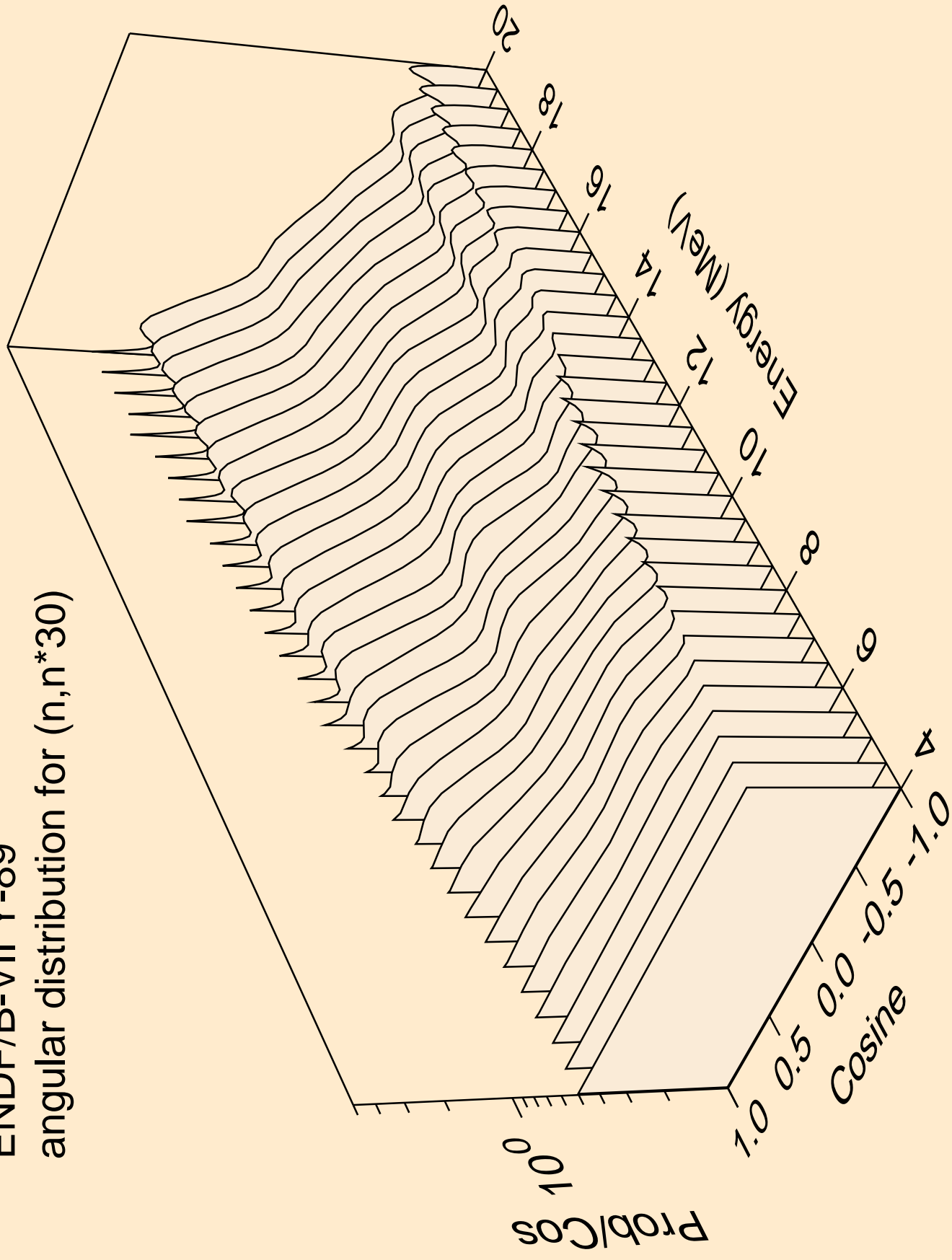
ENDF/B-VII Y-89  
angular distribution for (n,n\*28)



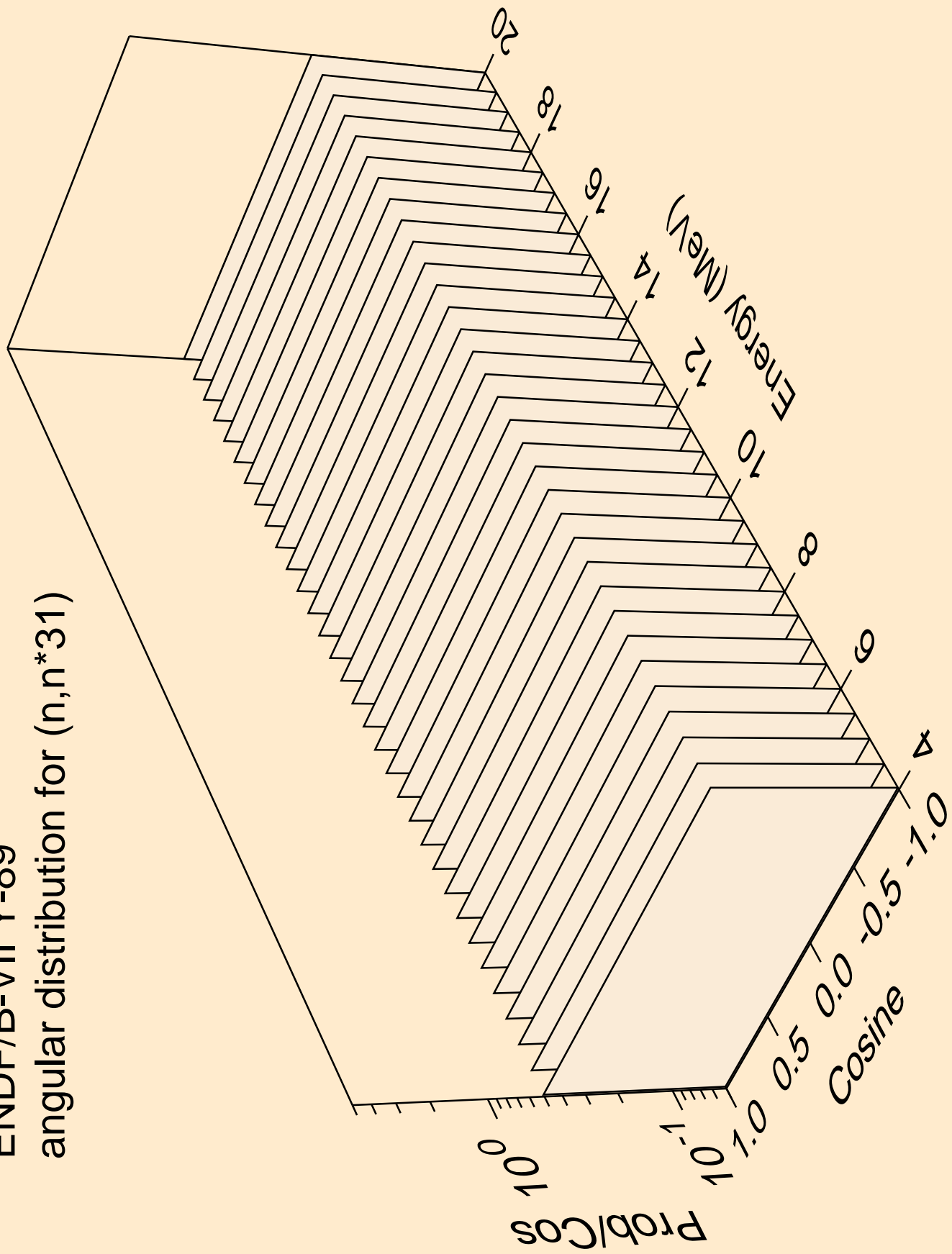
ENDF/B-VII Y-89  
angular distribution for (n,n\*29)



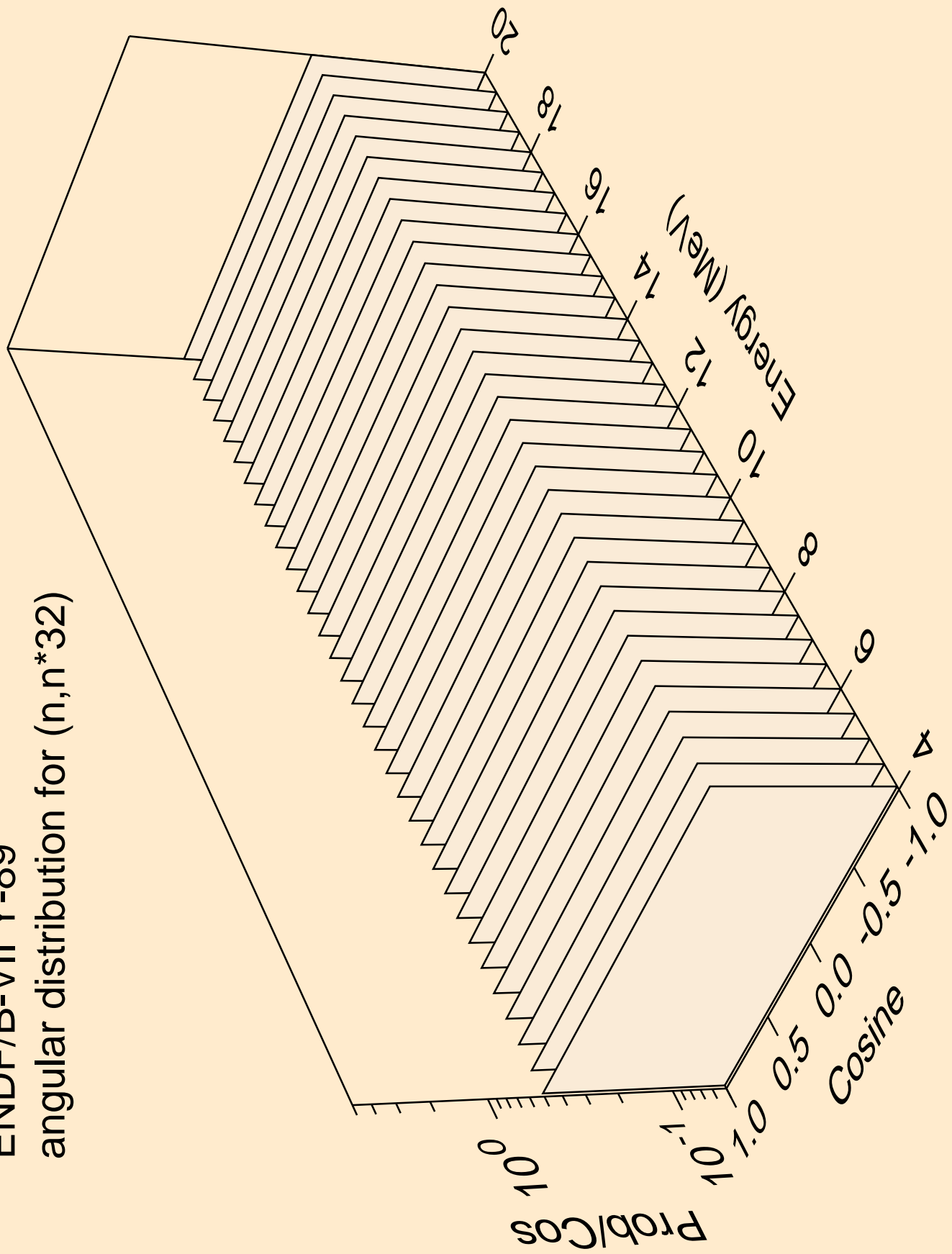
ENDF/B-VII Y-89  
angular distribution for (n,n\*30)



ENDF/B-VII Y-89  
angular distribution for (n,n\*31)

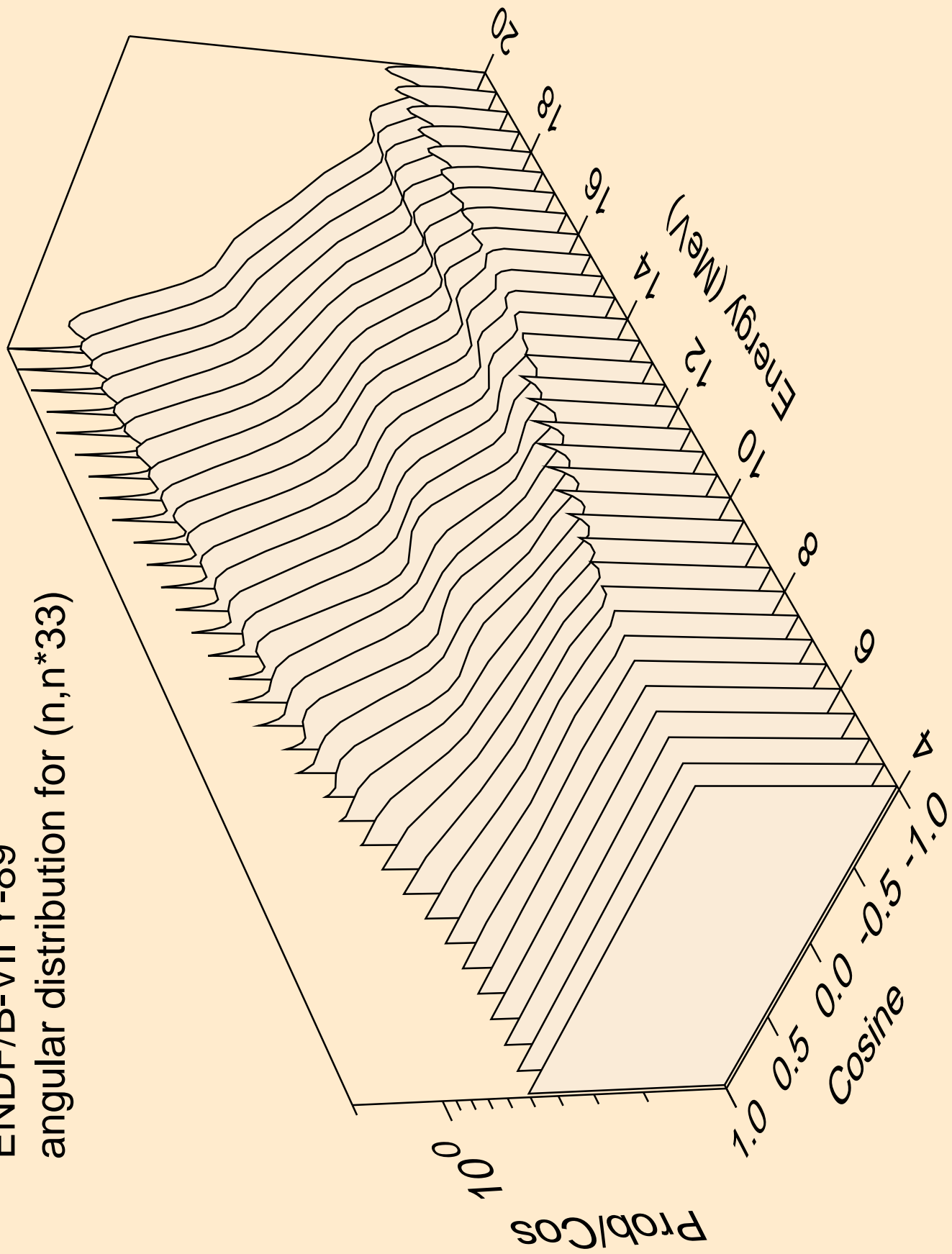


ENDF/B-VII Y-89  
angular distribution for (n,n\*32)

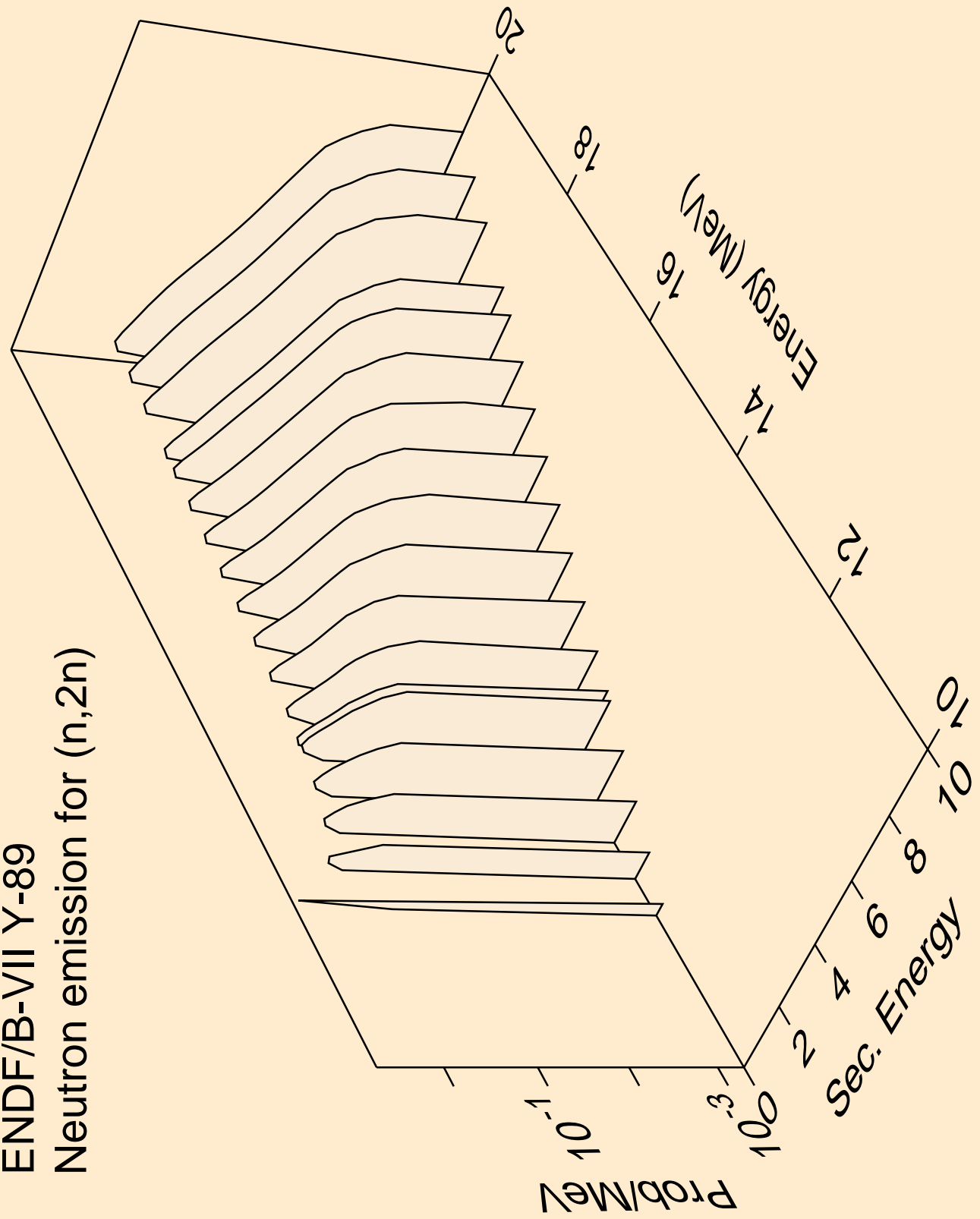




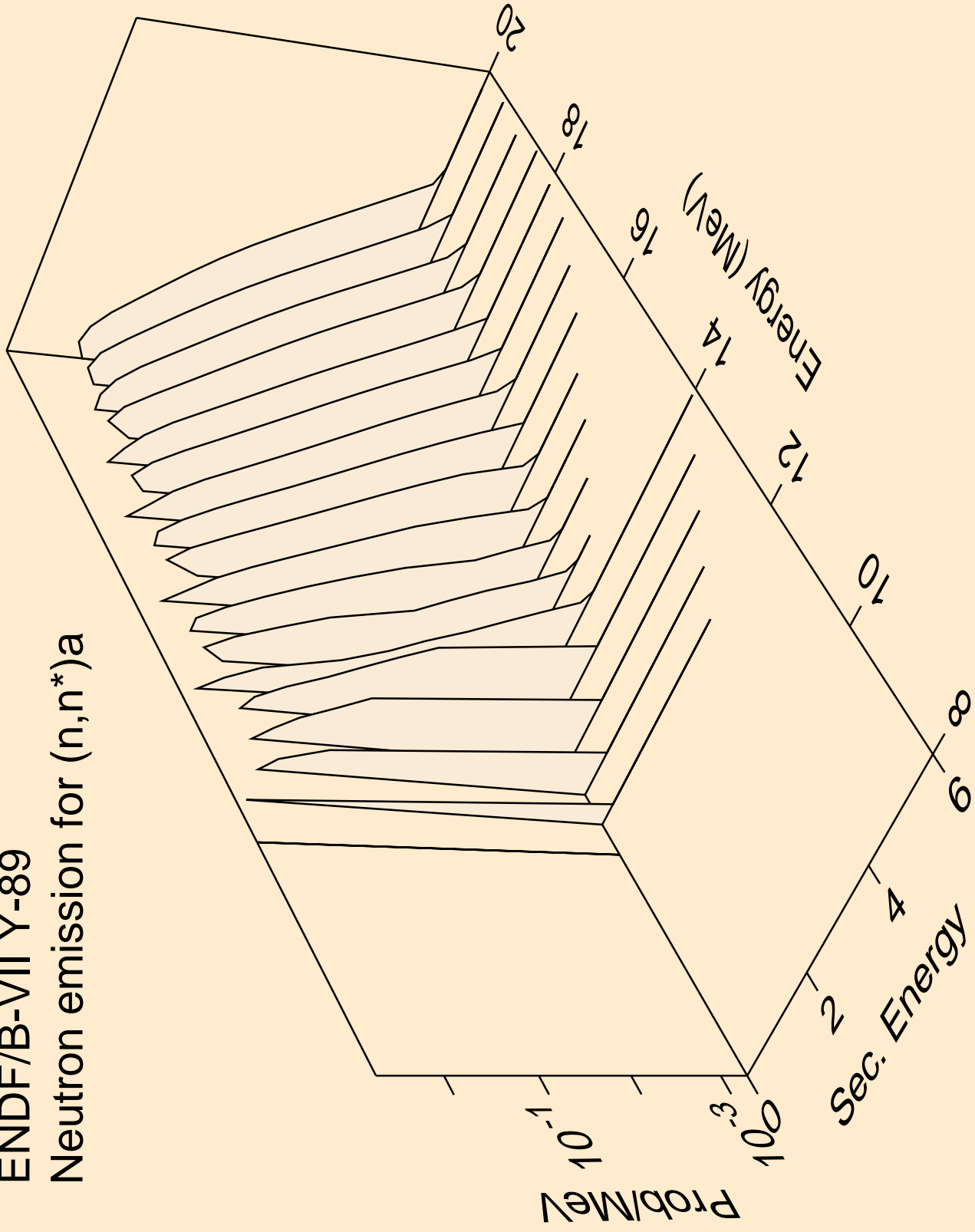
ENDF/B-VII Y-89  
angular distribution for (n,n\*33)



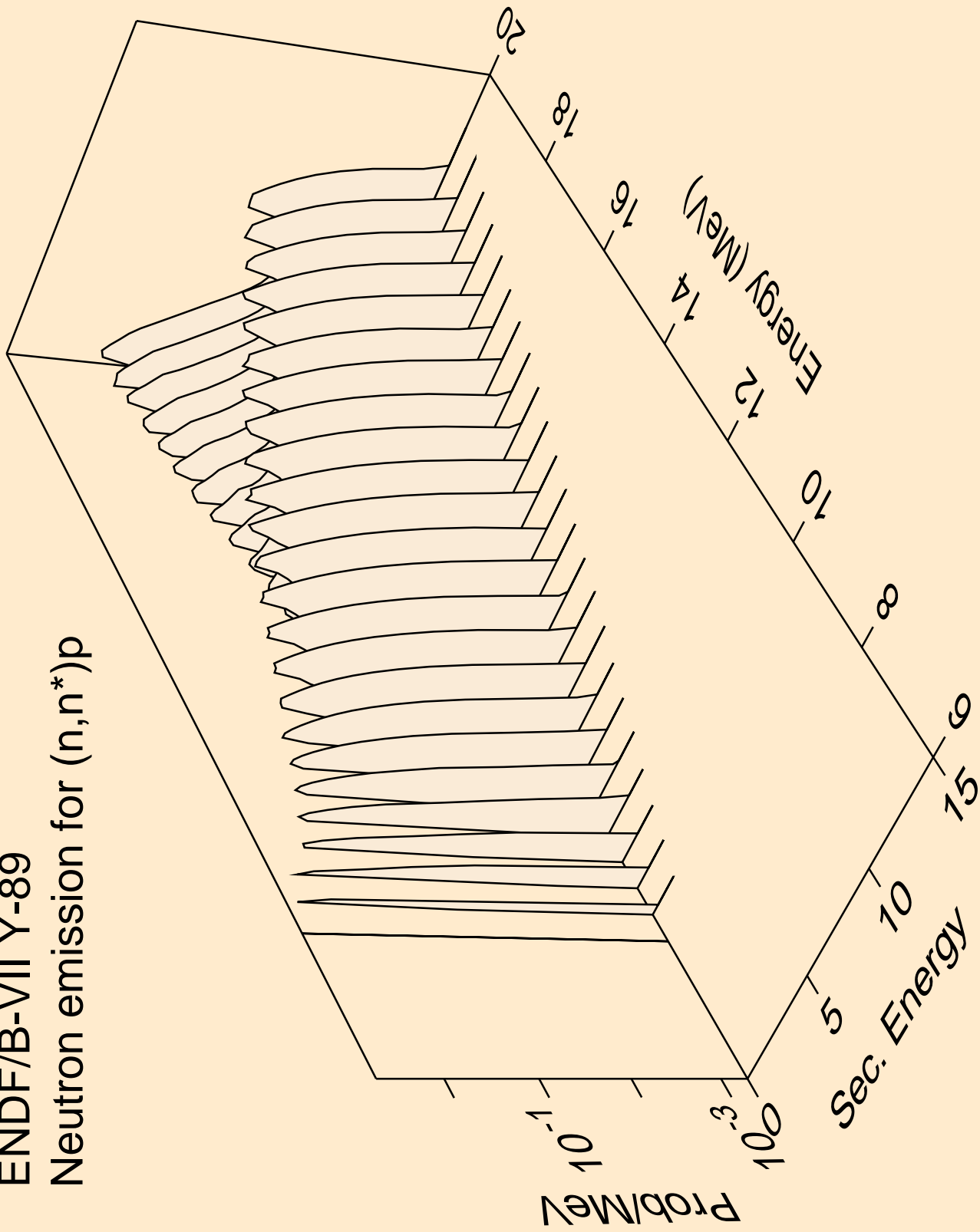
ENDF/B-VII Y-89  
Neutron emission for (n,2n)



ENDF/B-VII Y-89  
Neutron emission for (n,n\*)a

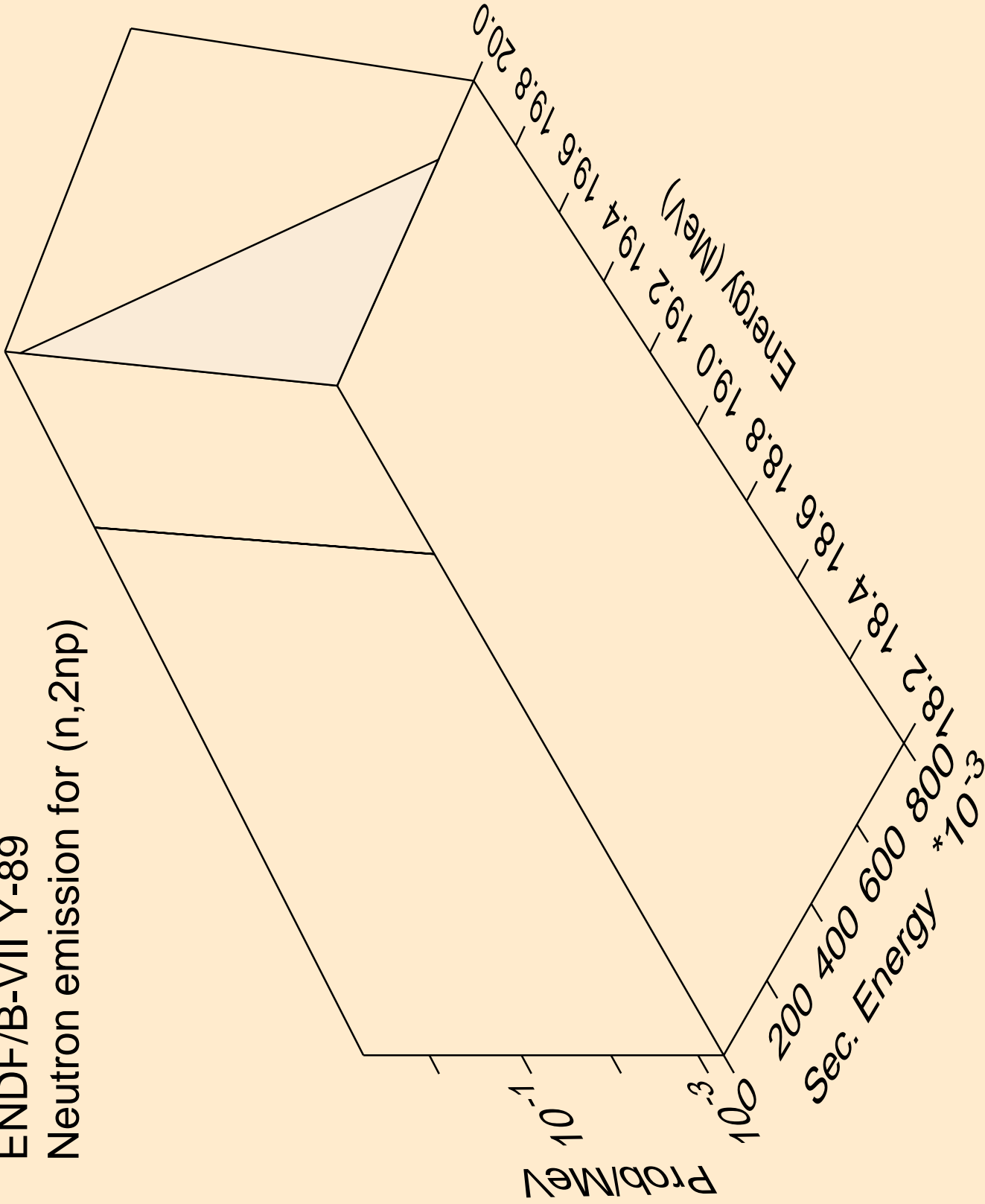


ENDF/B-VII Y-89  
Neutron emission for (n,n\*)p

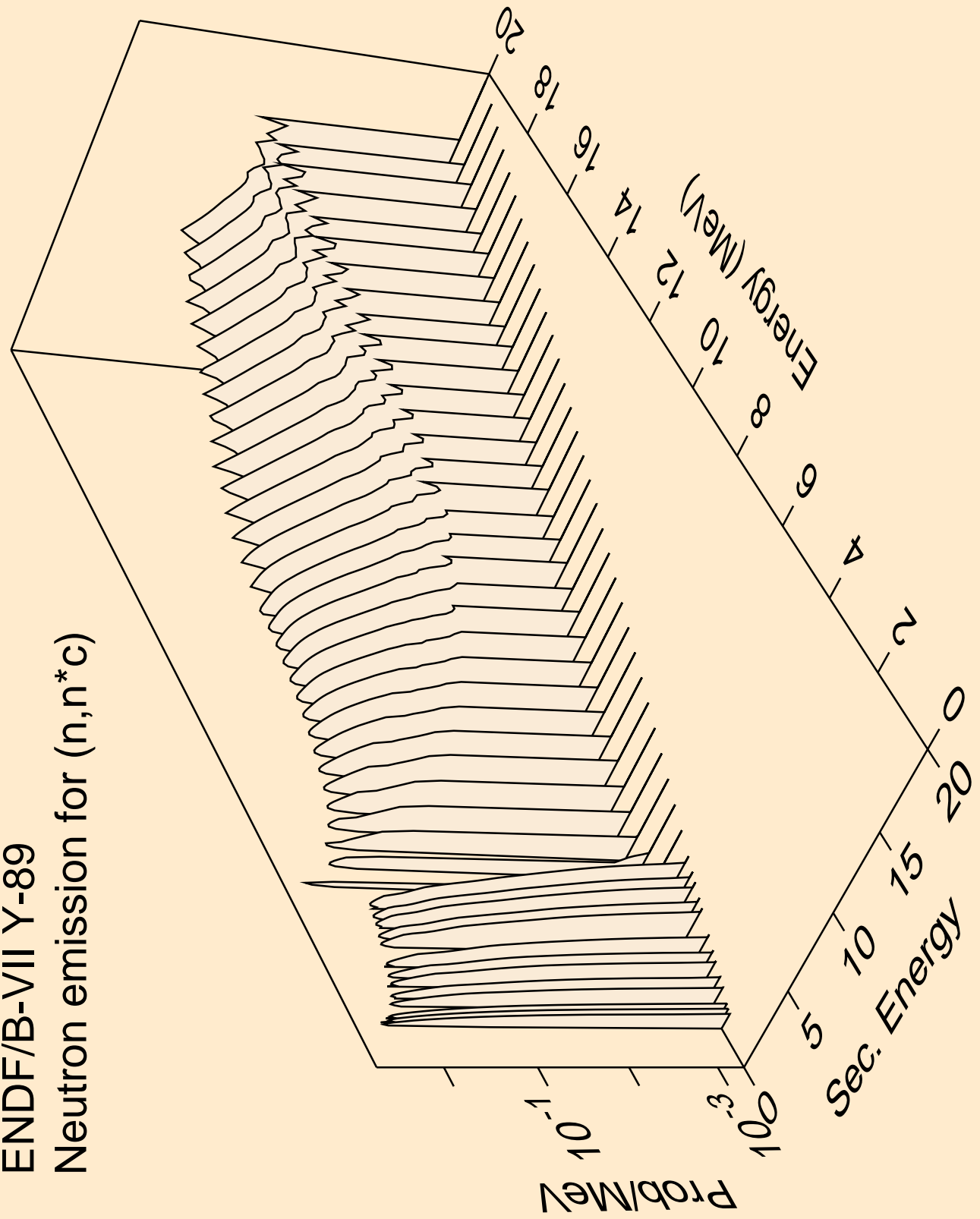


ENDF/B-VII Y-89

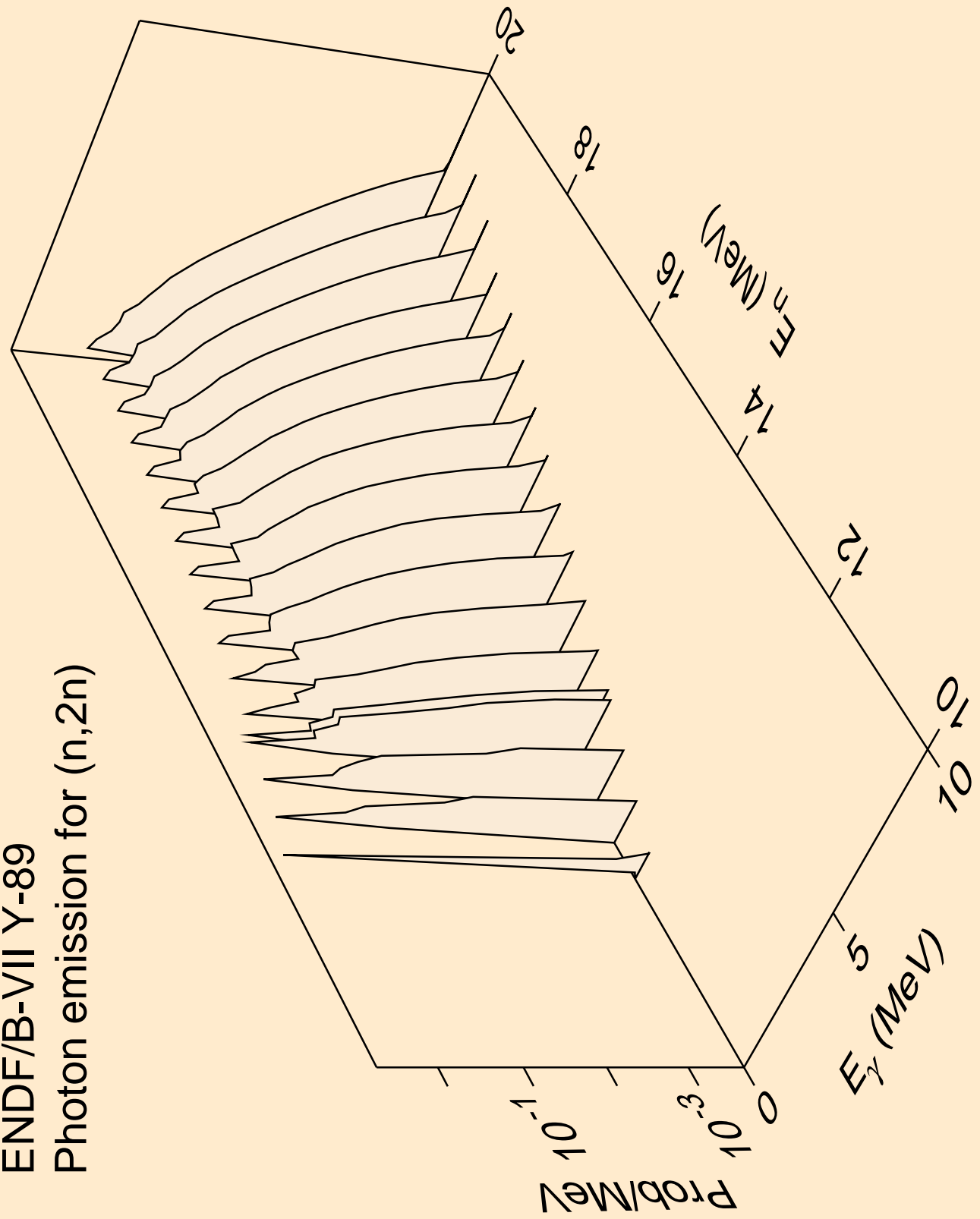
Neutron emission for (n,2np)



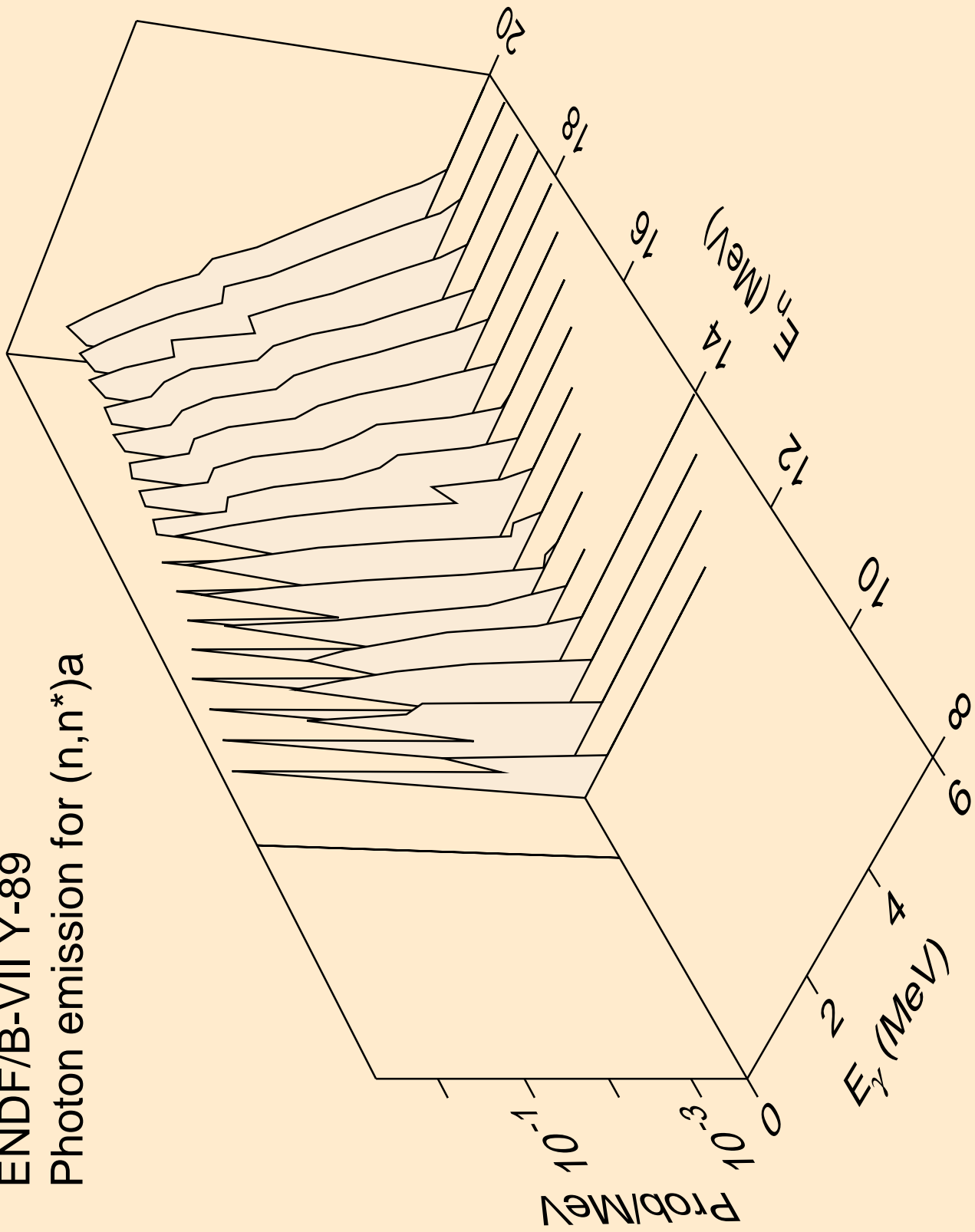
ENDF/B-VII Y-89  
Neutron emission for (n,n\*c)



ENDF/B-VII Y-89  
Photon emission for (n,2n)

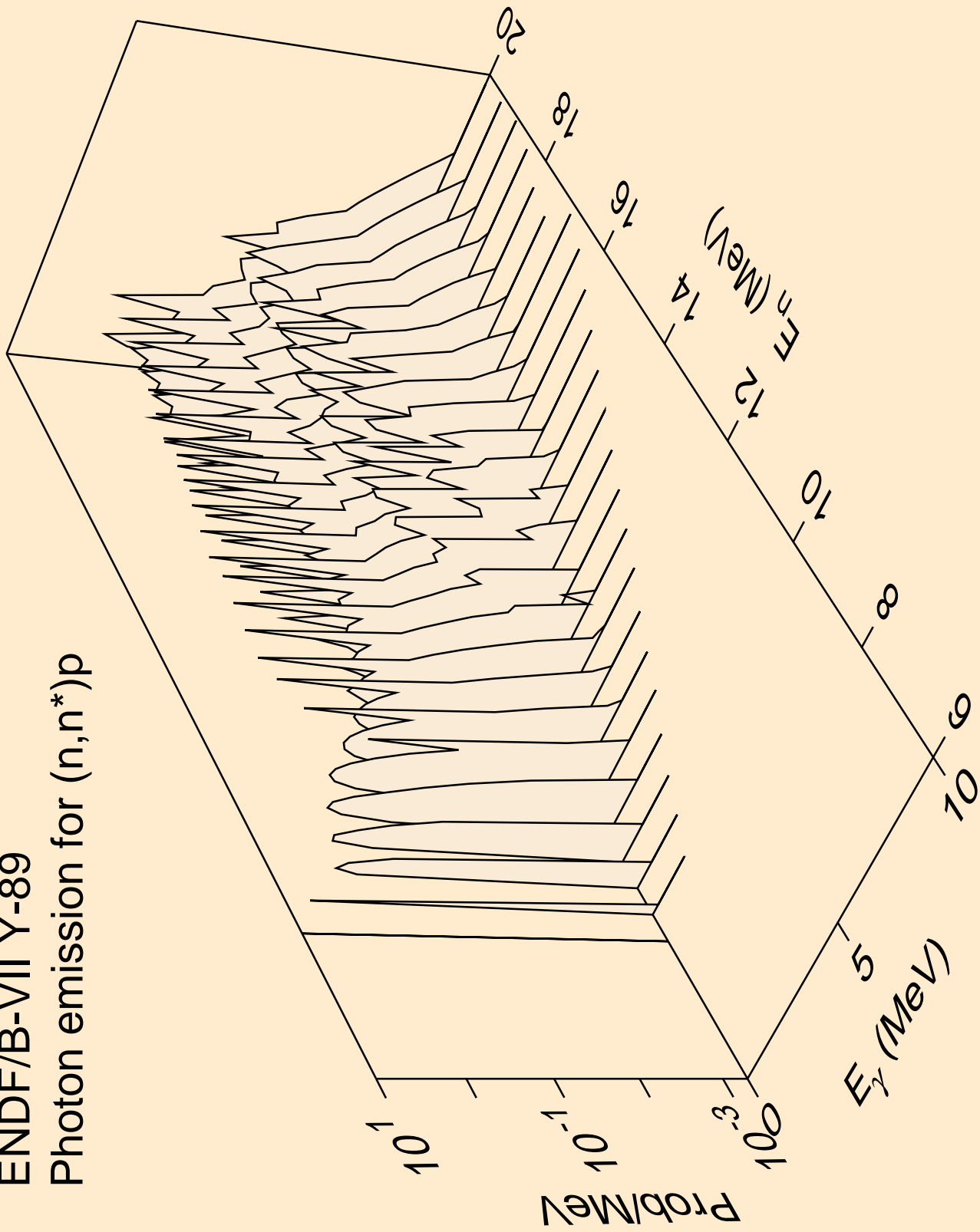


ENDF/B-VII Y-89  
Photon emission for (n,n\*)a

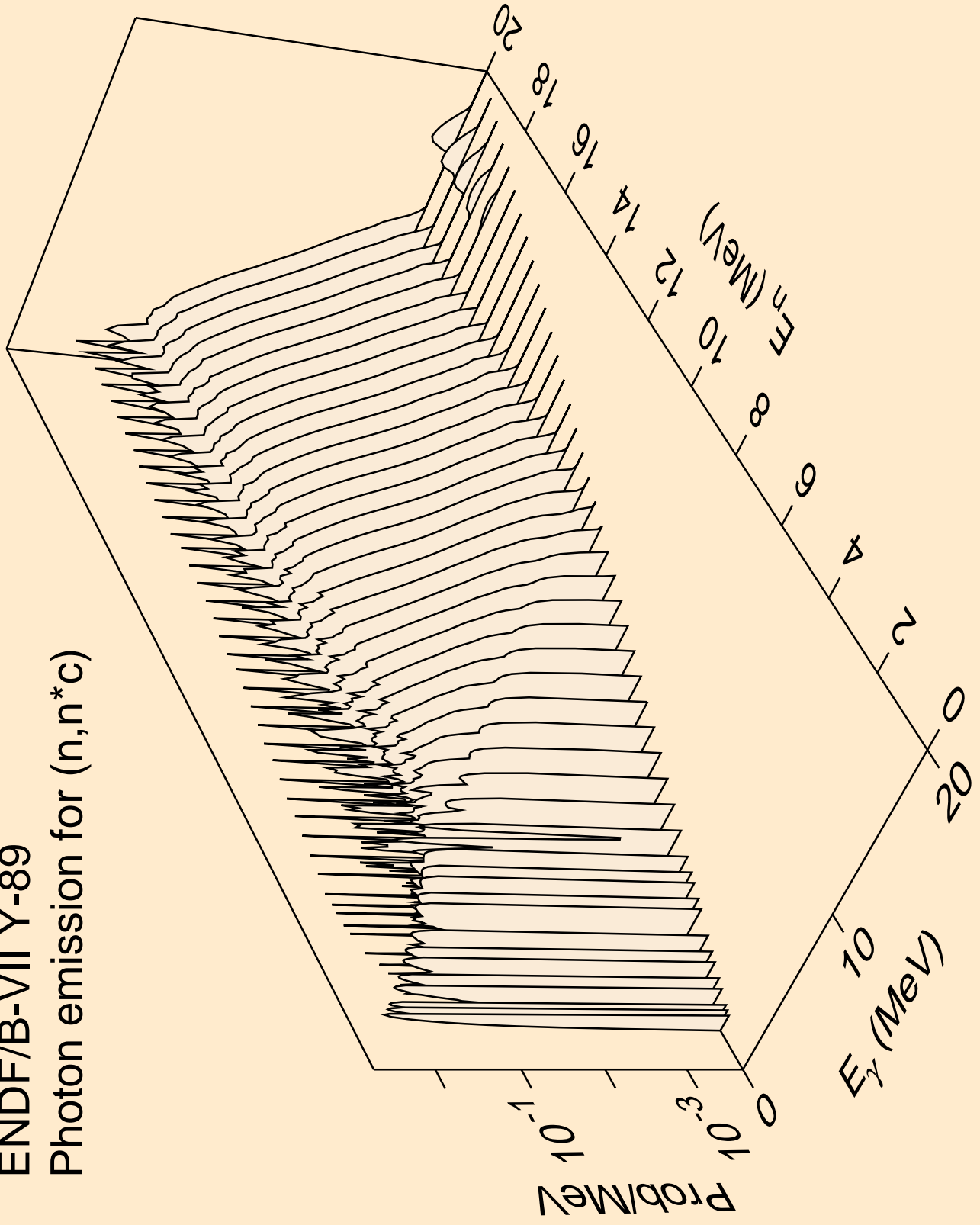




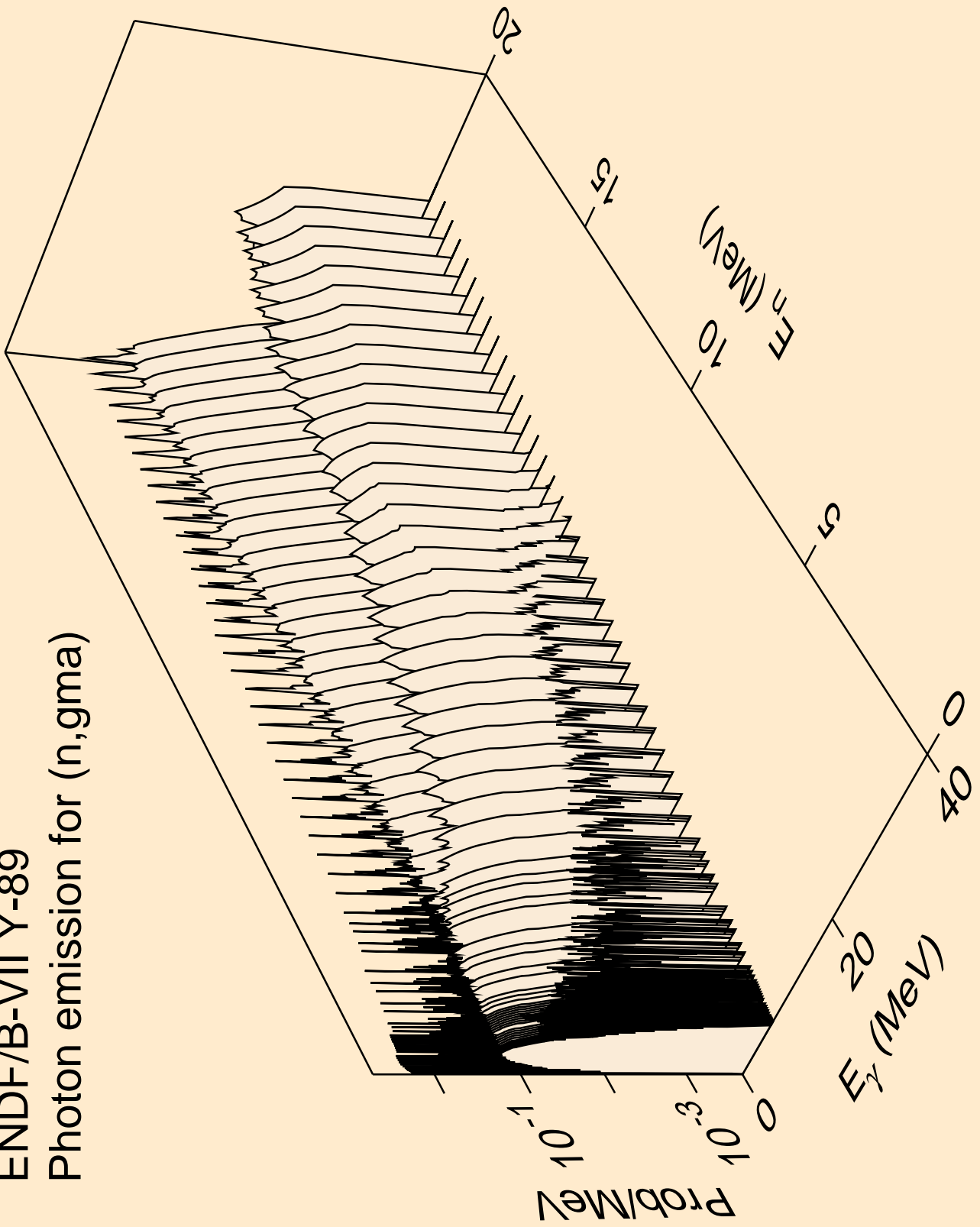
ENDF/B-VII Y-89  
Photon emission for (n,n\*)p



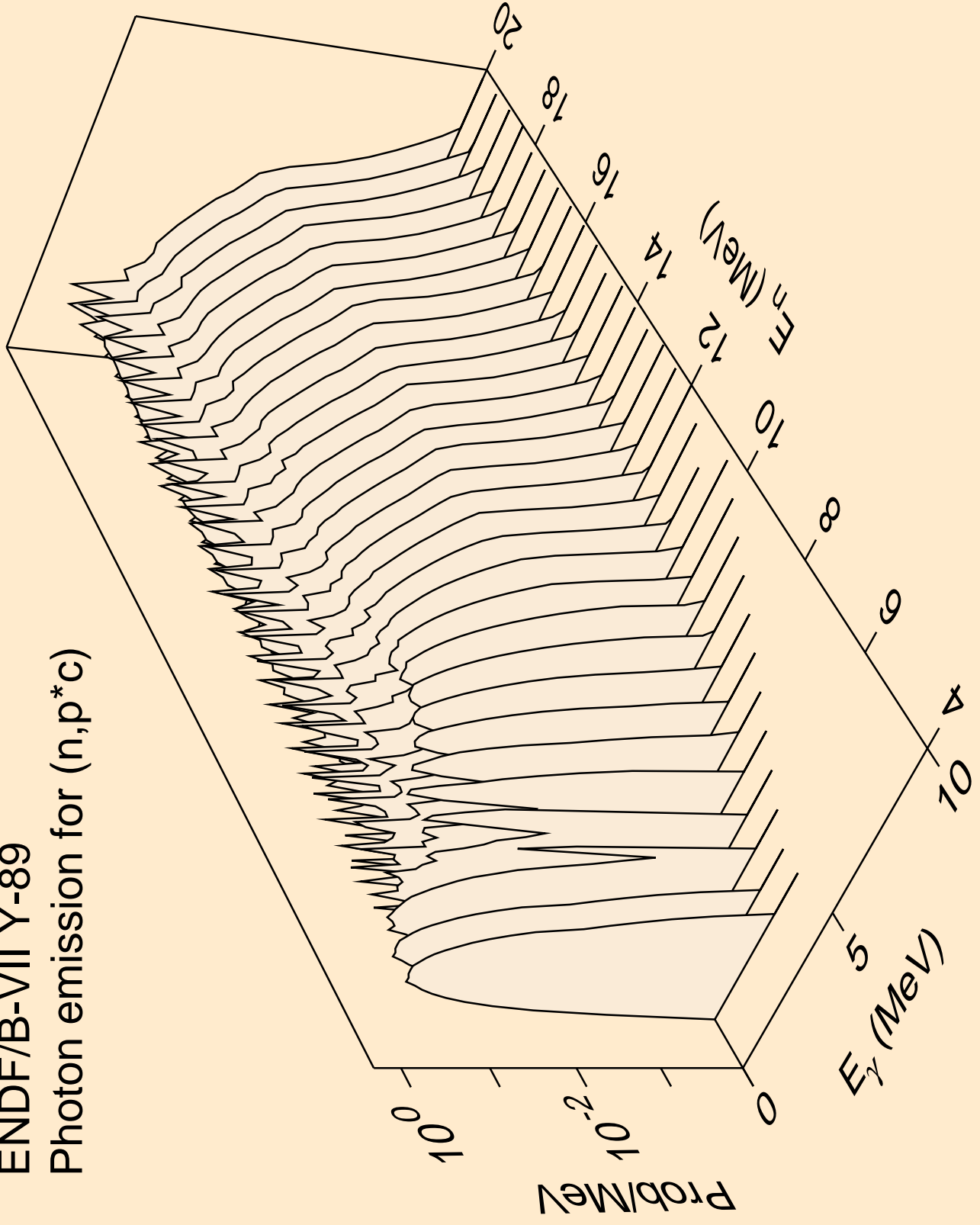
ENDF/B-VII Y-89  
Photon emission for (n,n\*c)



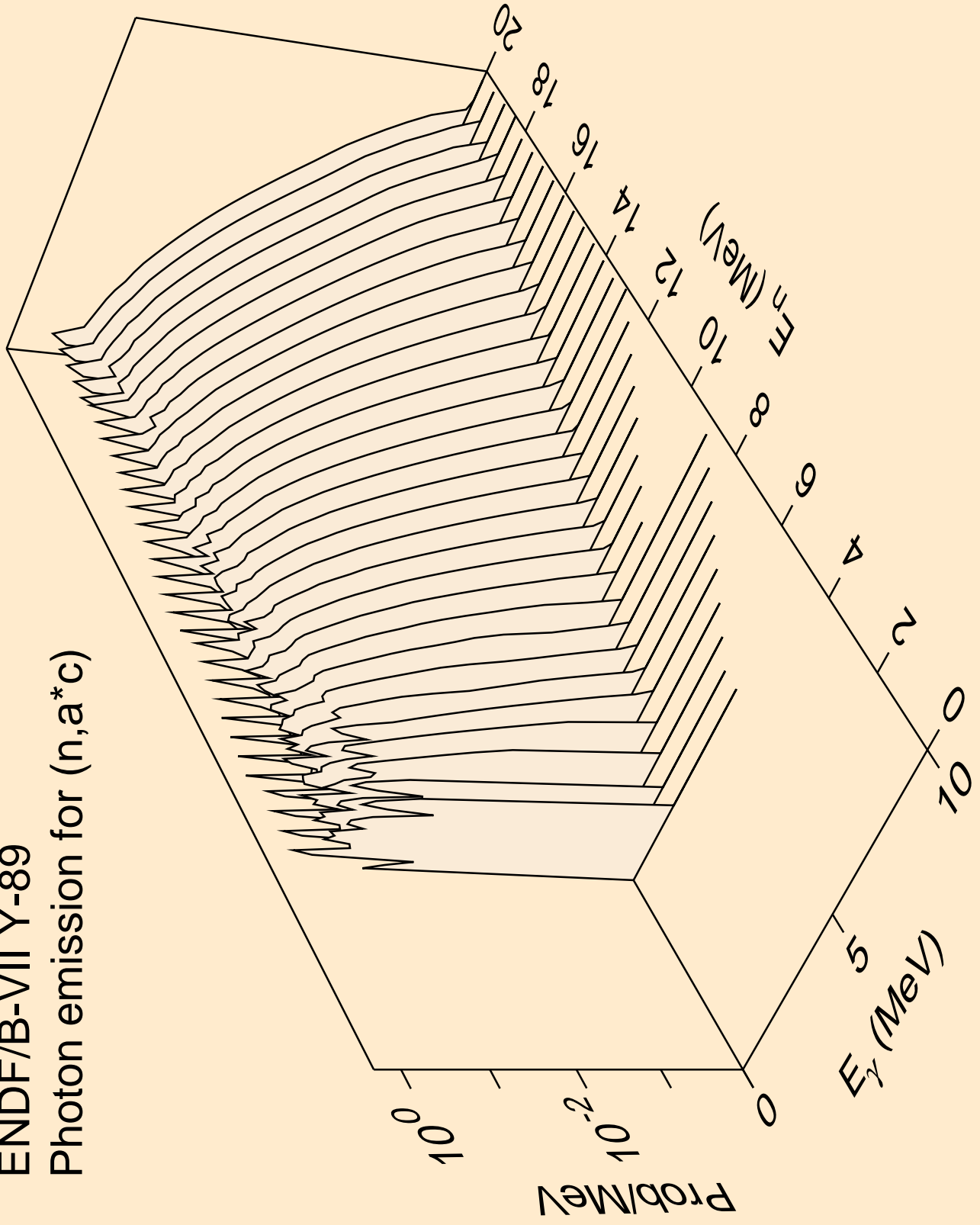
ENDF/B-VII Y-89  
Photon emission for (n,gma)



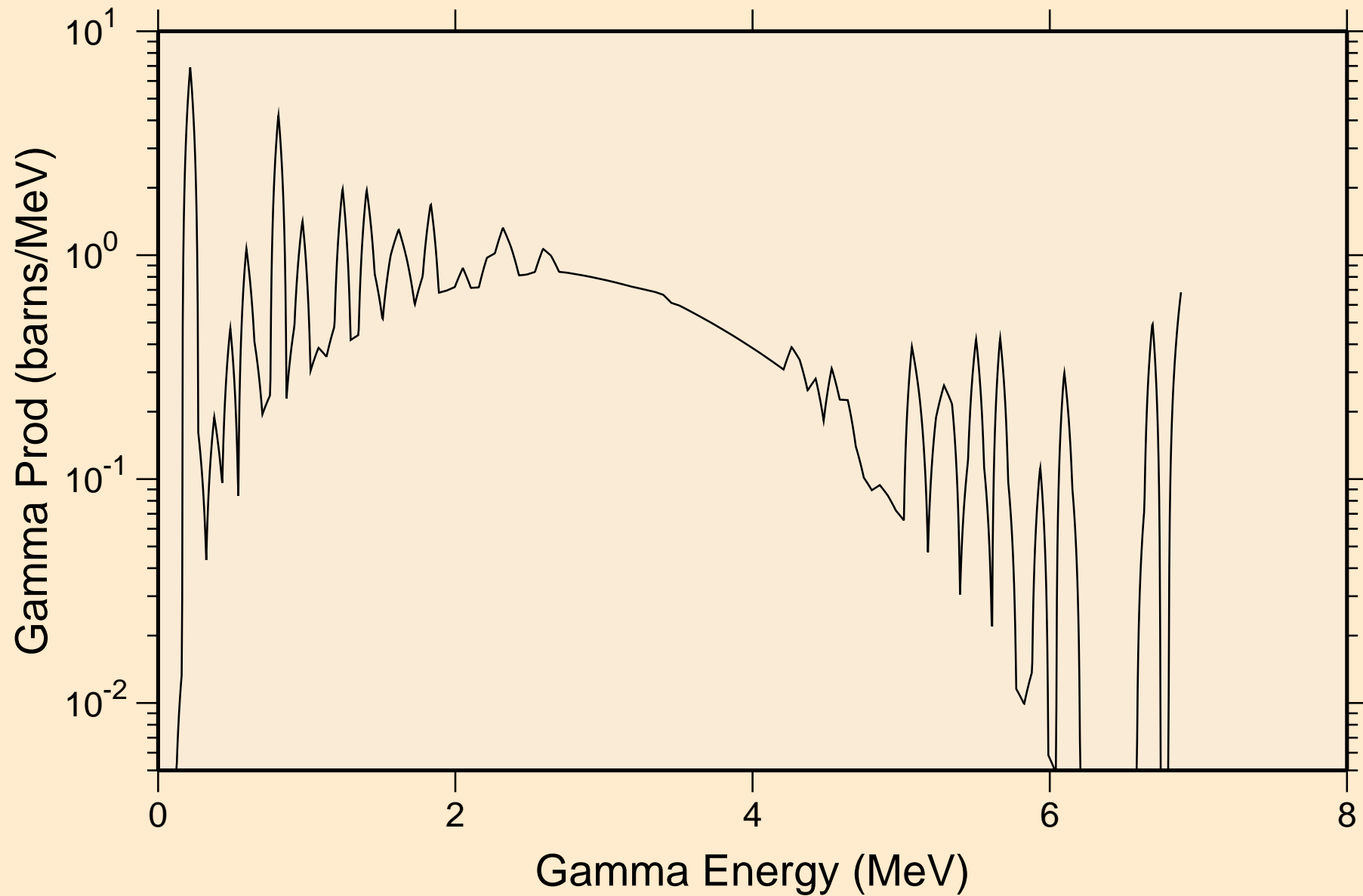
ENDF/B-VII Y-89  
Photon emission for (n,p\*c)



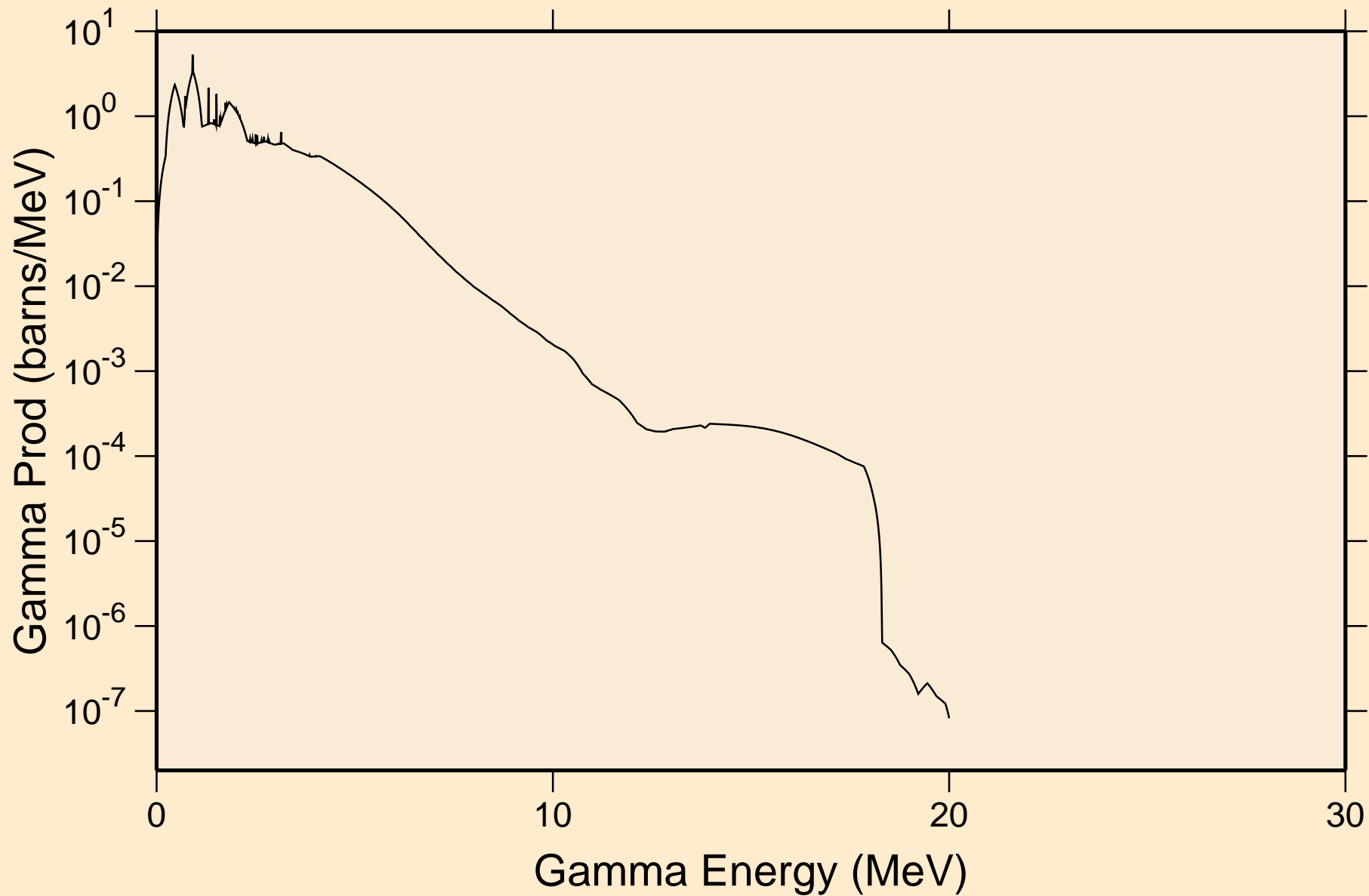
ENDF/B-VII Y-89  
Photon emission for (n,a\*c)



ENDF/B-VII Y-89  
thermal capture photon spectrum

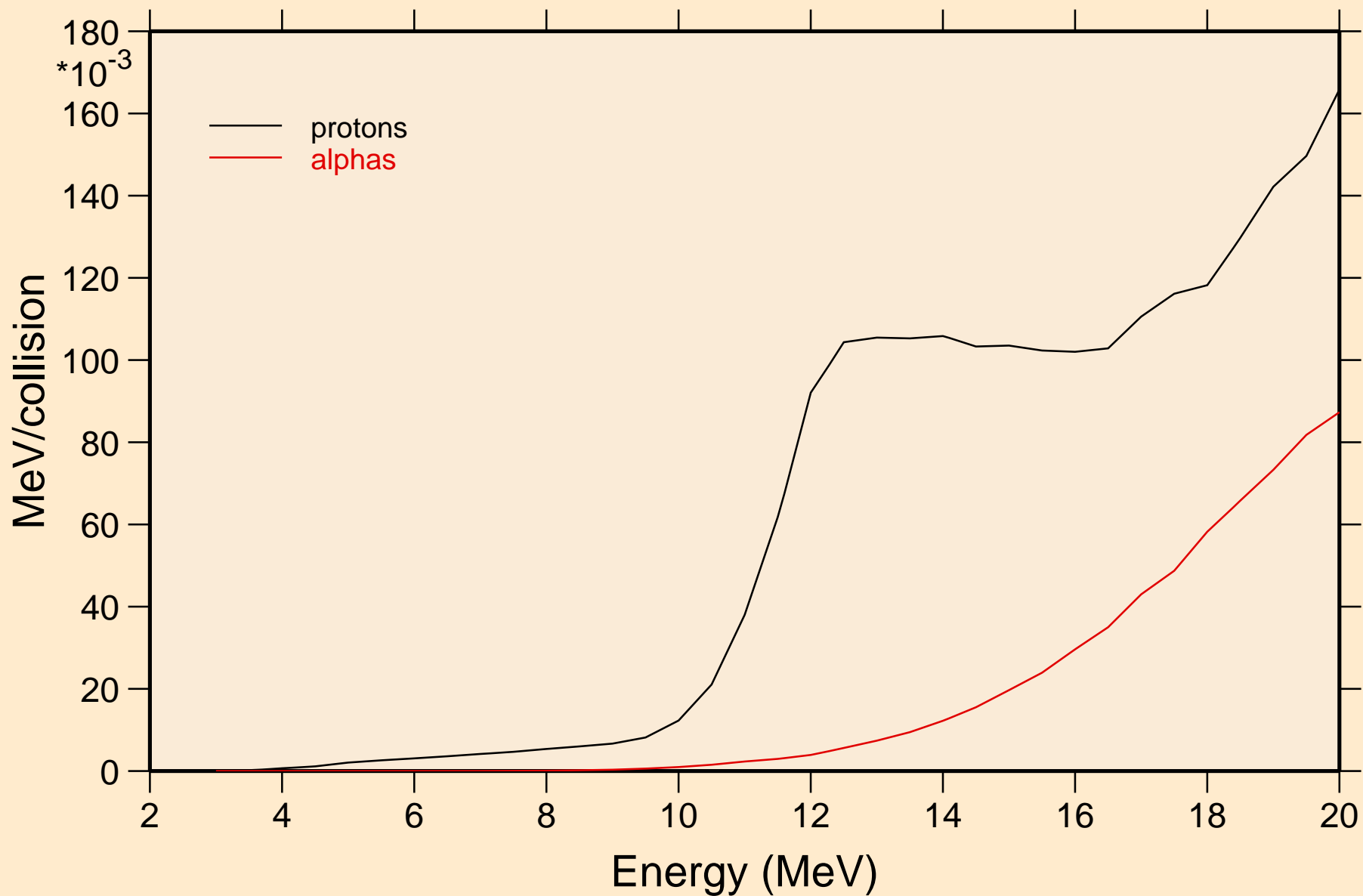


ENDF/B-VII Y-89  
14 MeV photon spectrum



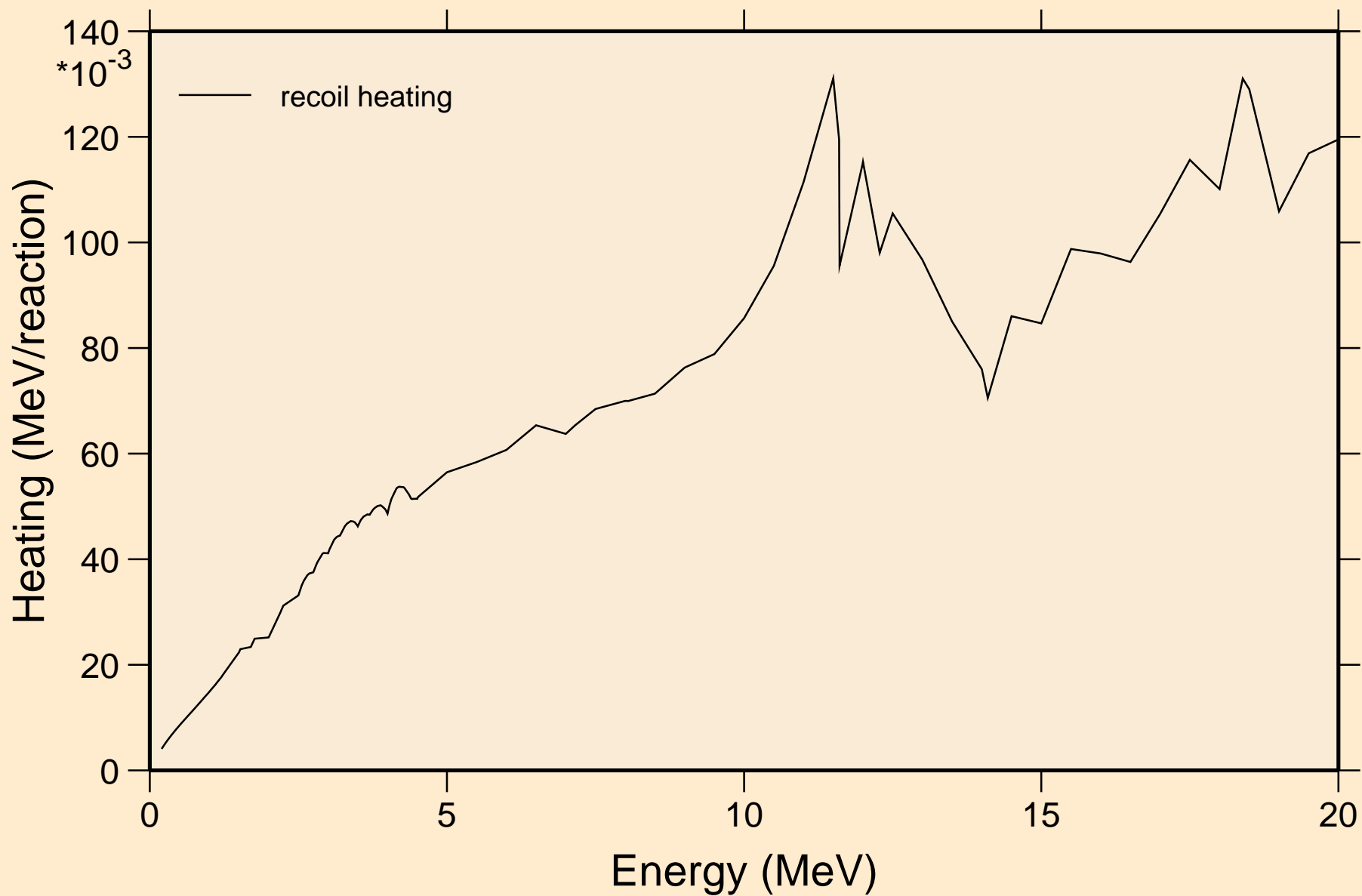
# ENDF/B-VII Y-89

## Particle heating contributions



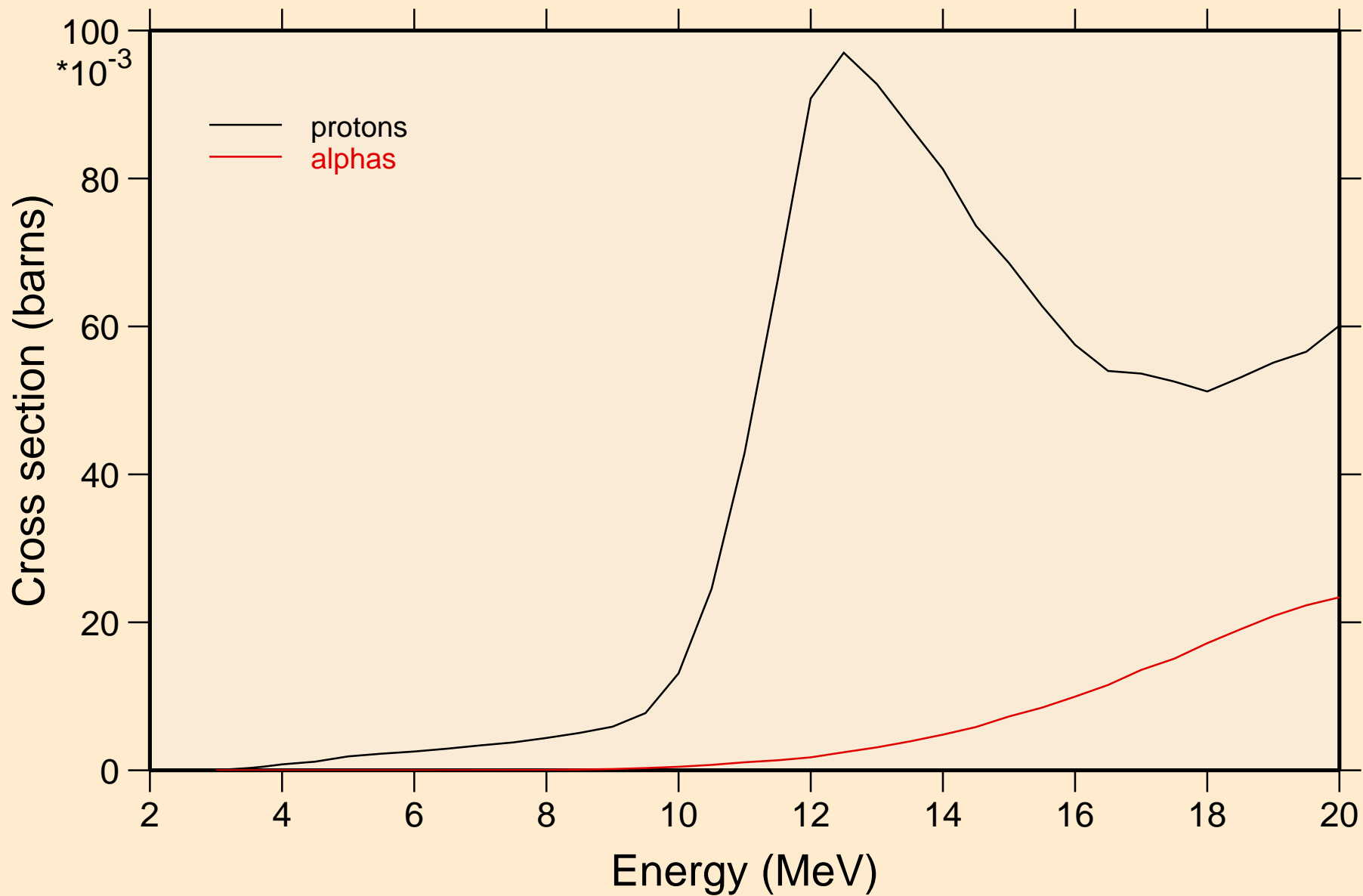


# ENDF/B-VII Y-89 Recoil Heating

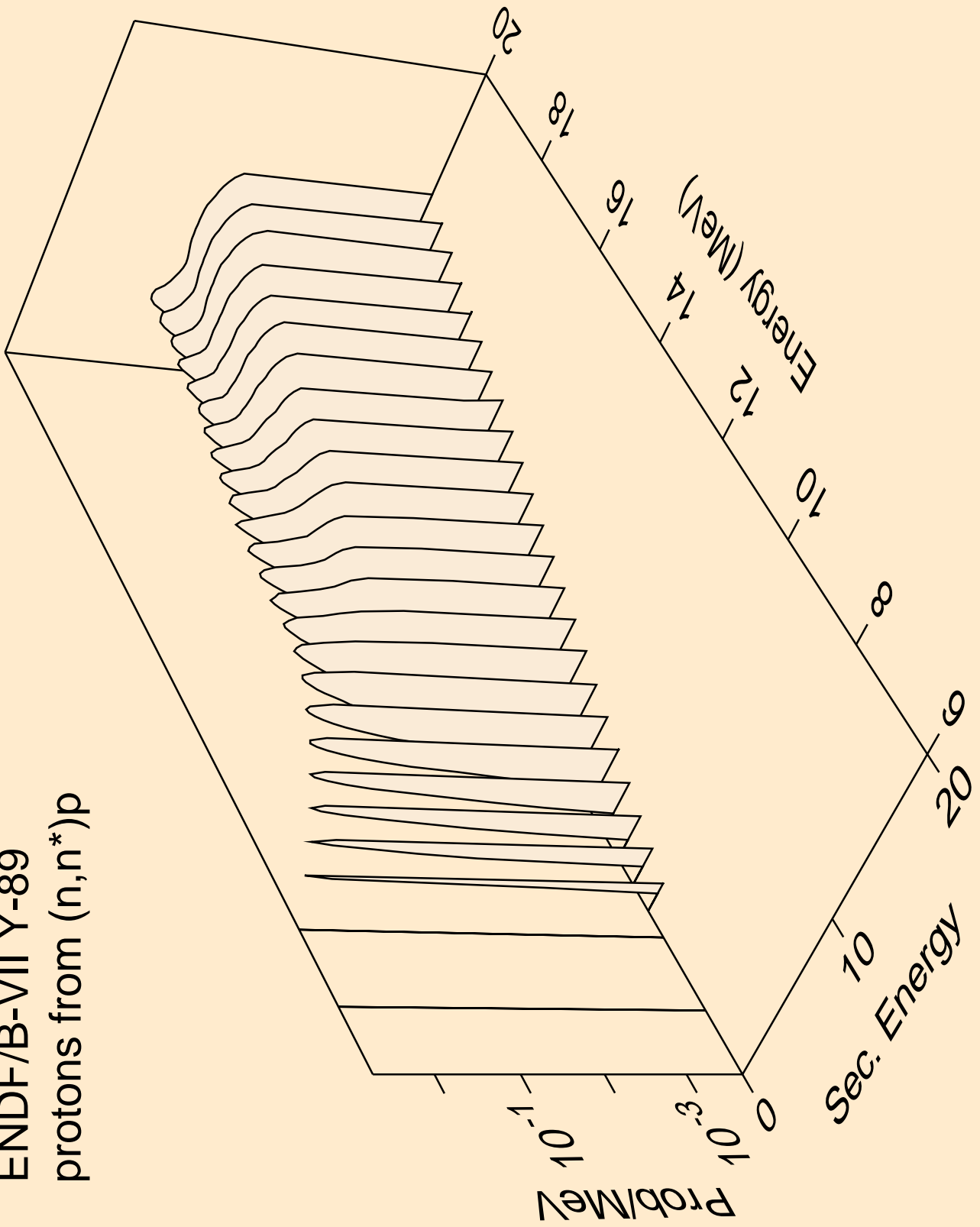


ENDF/B-VII Y-89

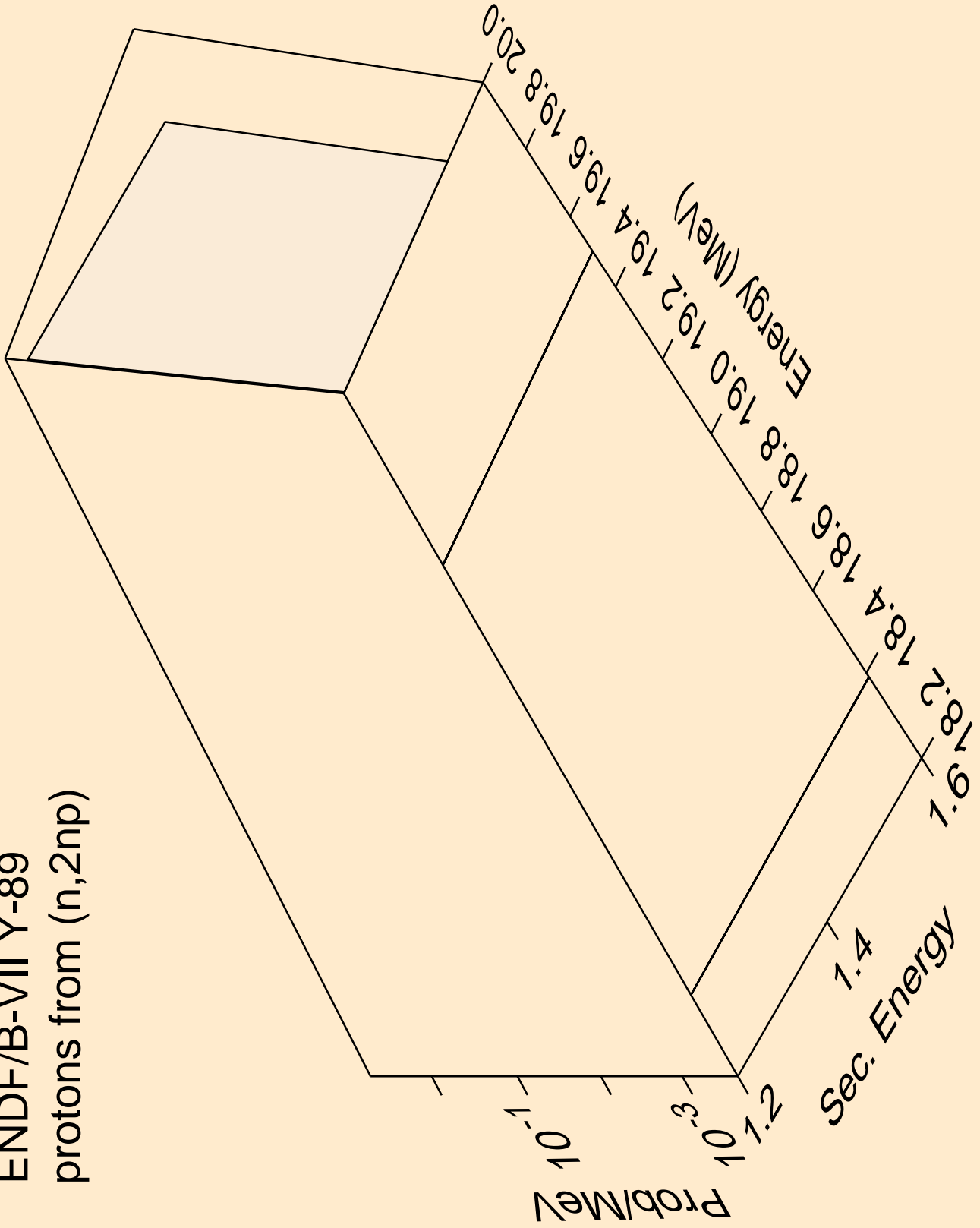
Particle production cross sections



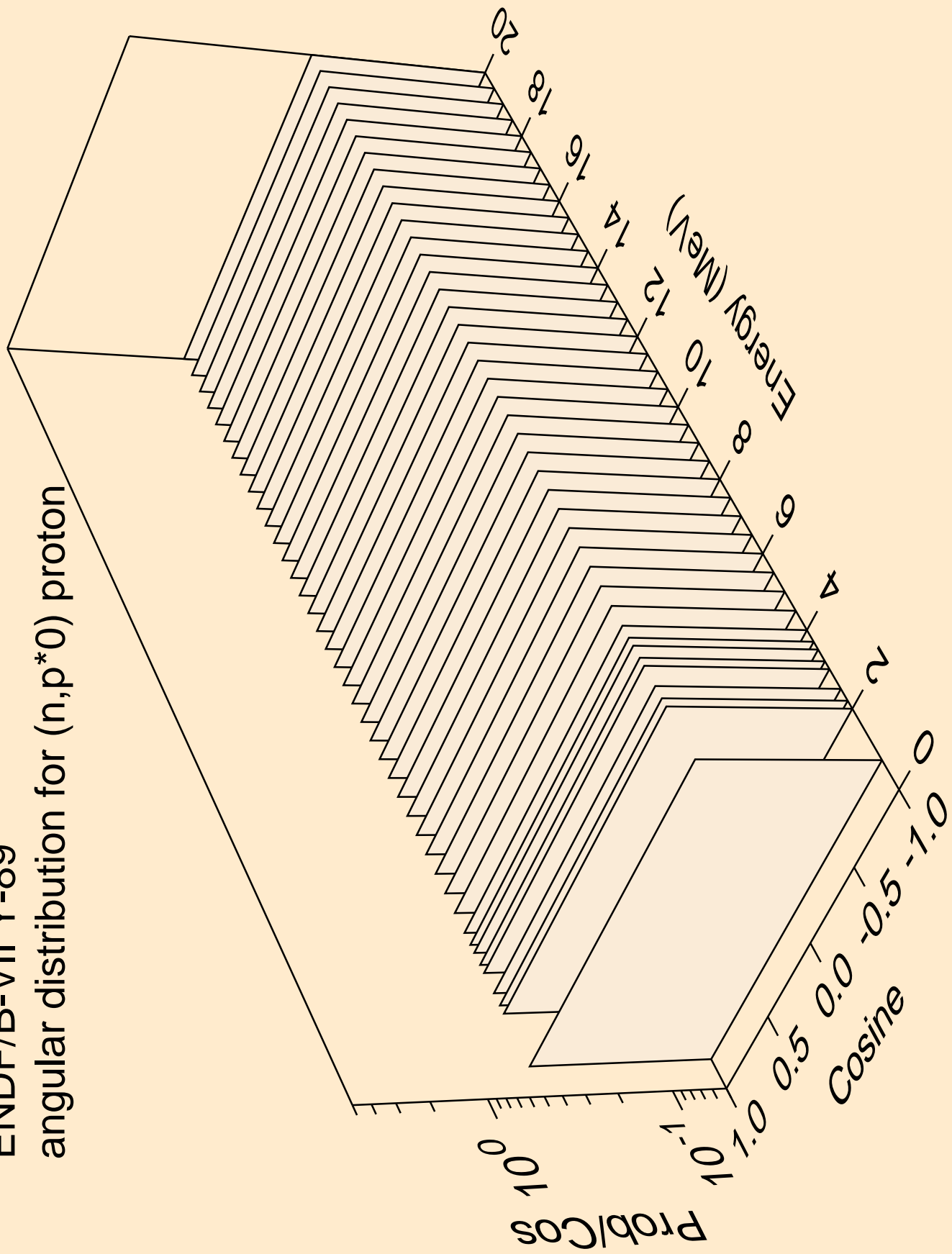
ENDF/B-VII Y-89  
protons from (n,n\*)p



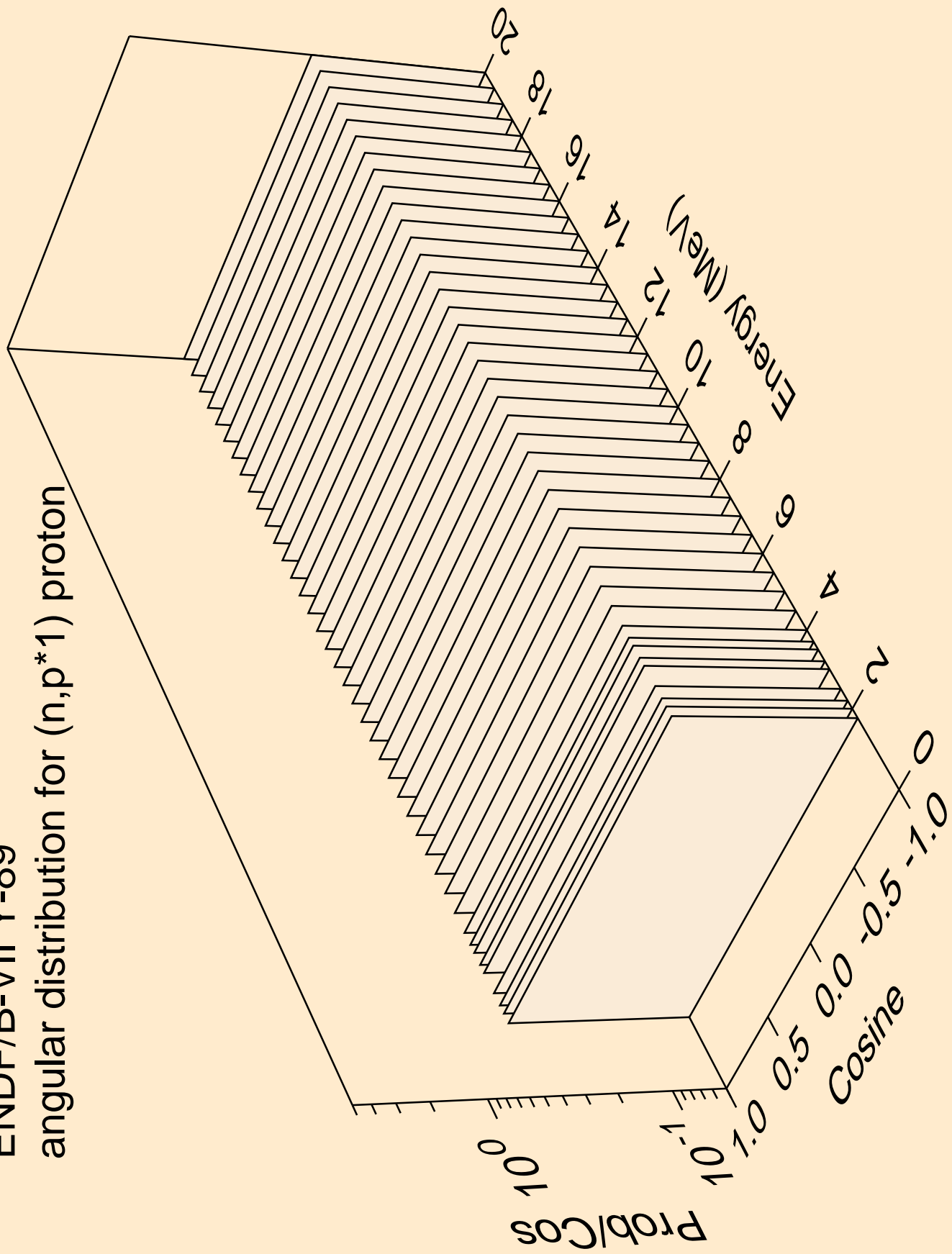
ENDF/B-VII Y-89  
protons from (n,2np)



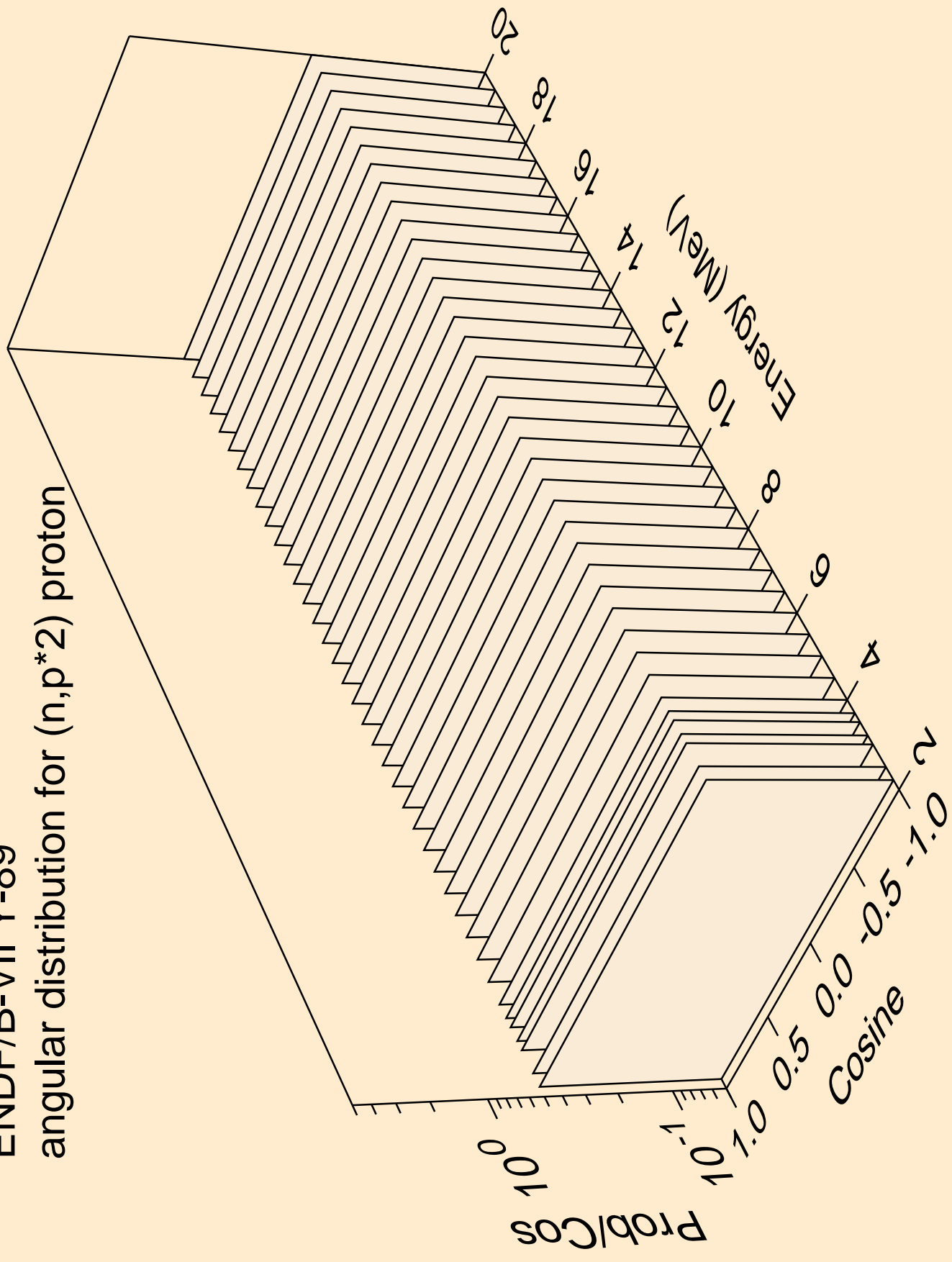
ENDF/B-VII Y-89  
angular distribution for (n,p\*0) proton



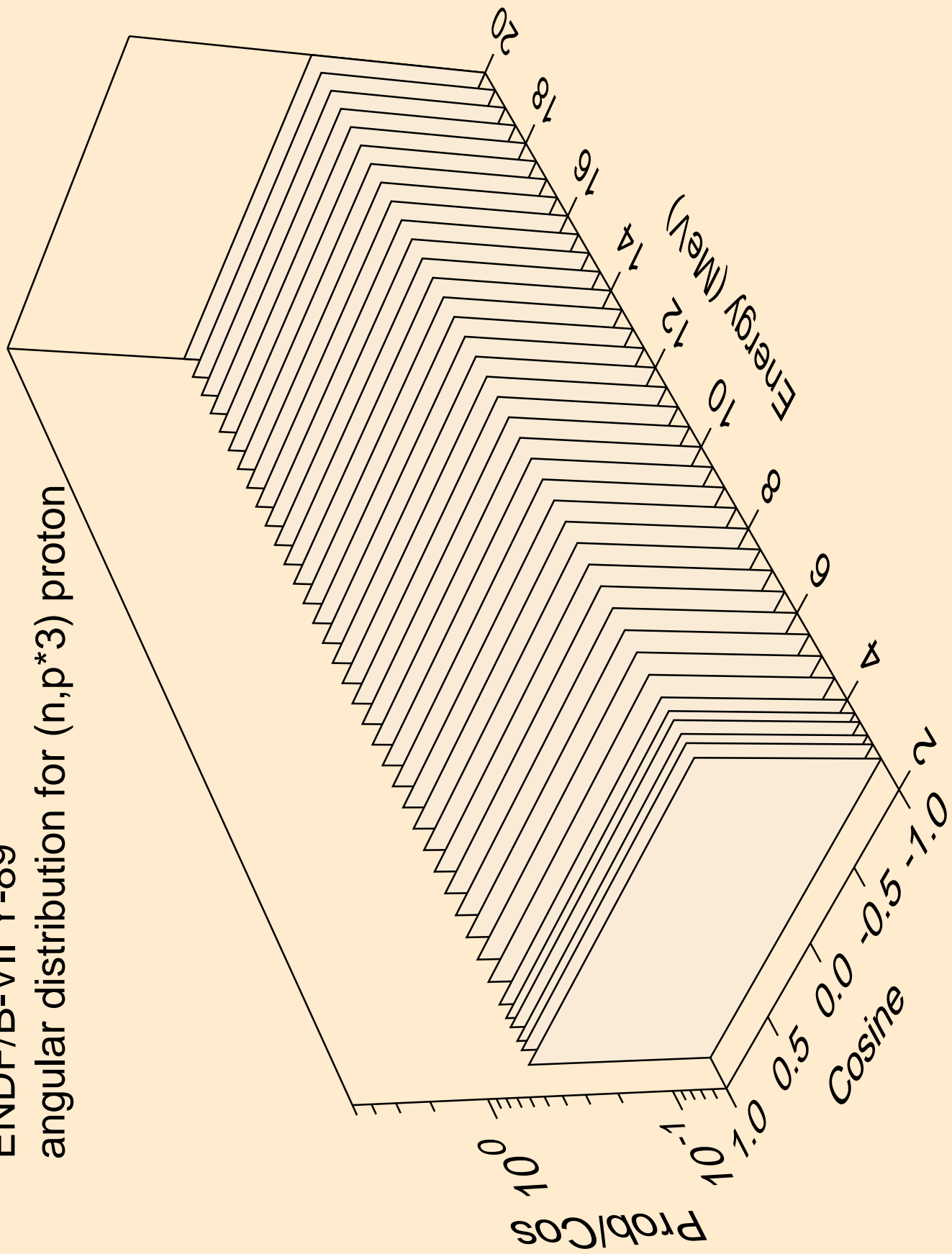
ENDF/B-VII Y-89  
angular distribution for (n,p\*1) proton



ENDF/B-VII Y-89  
angular distribution for (n,p\*2) proton

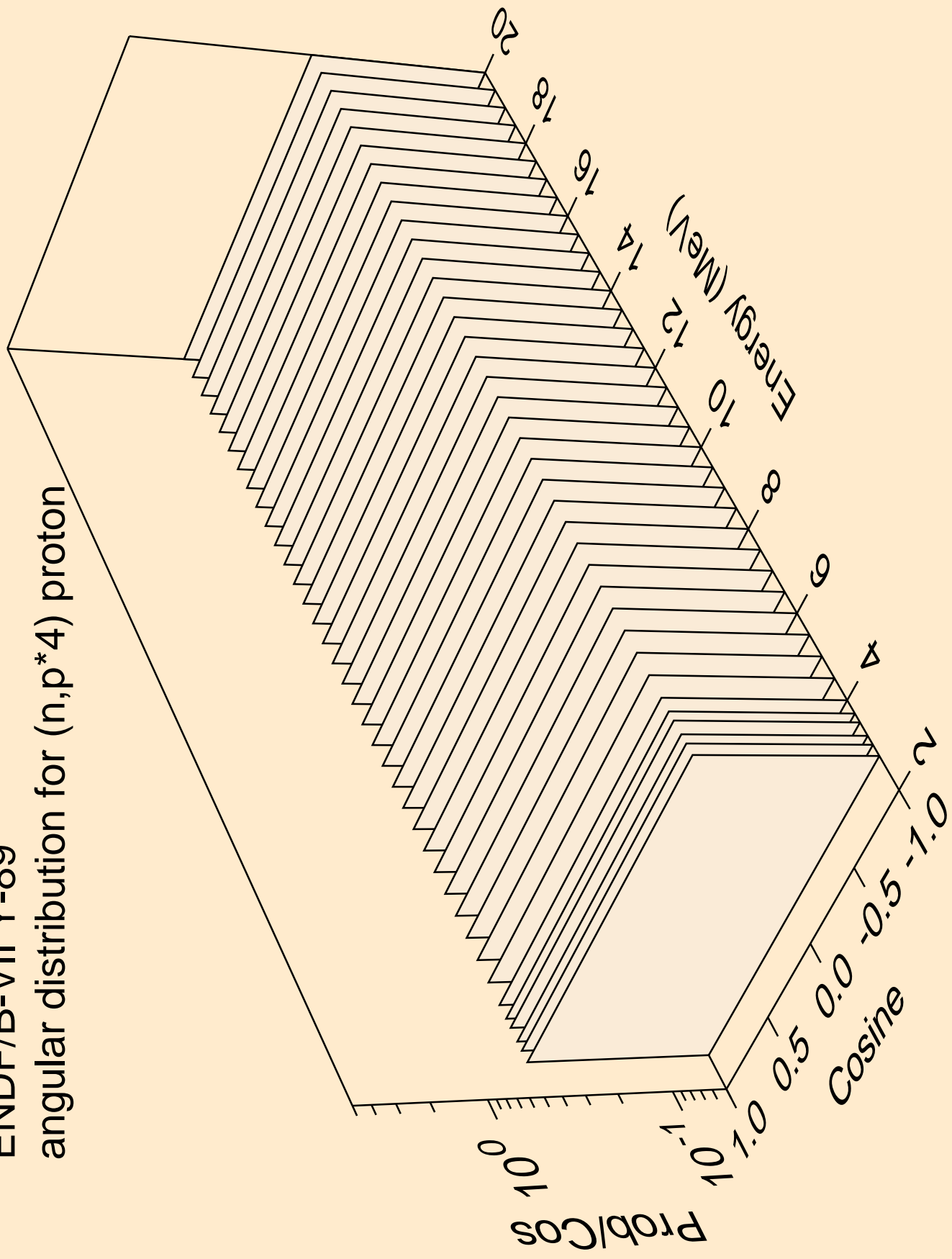


ENDF/B-VII Y-89  
angular distribution for (n,p\*3) proton

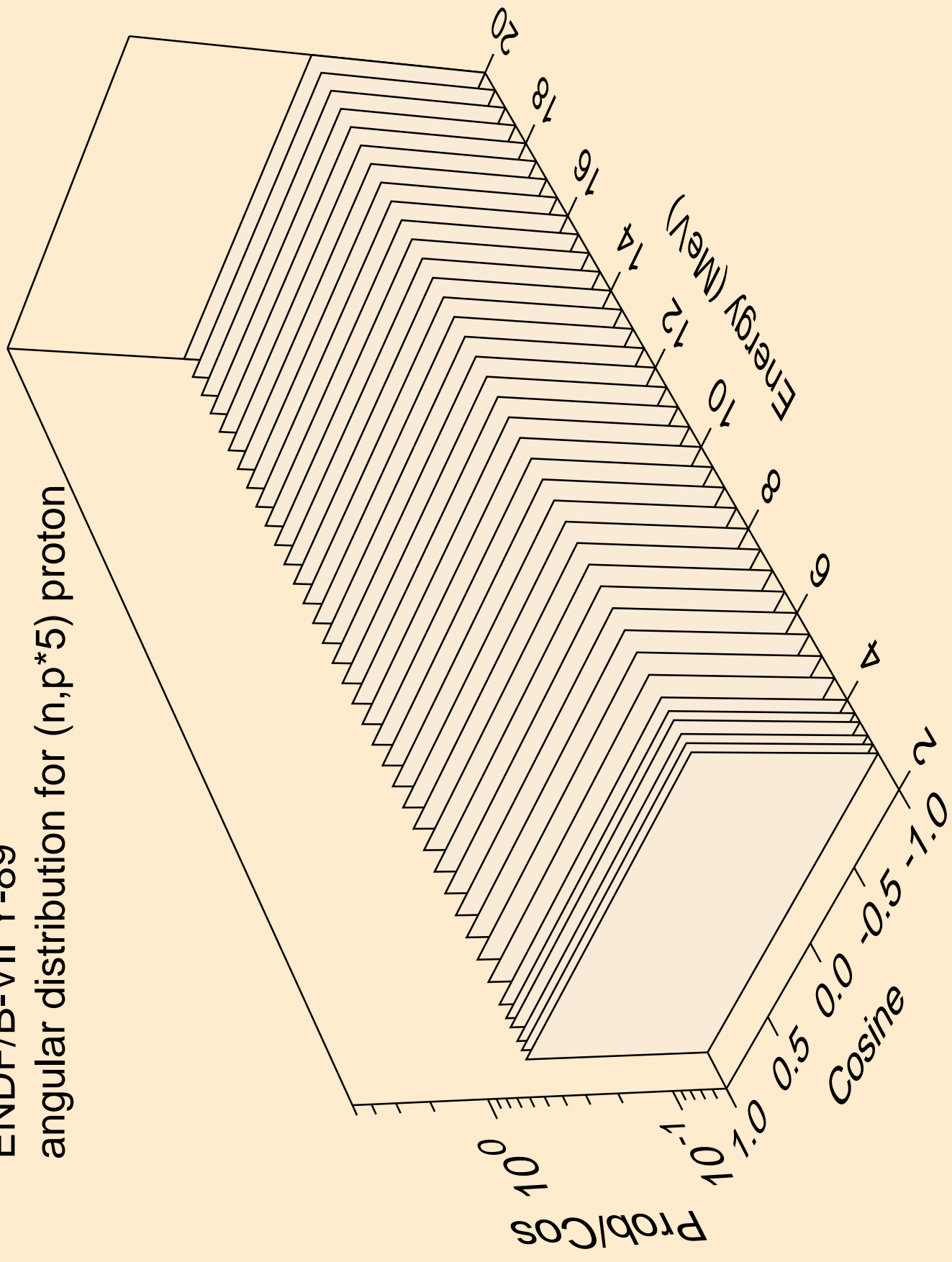




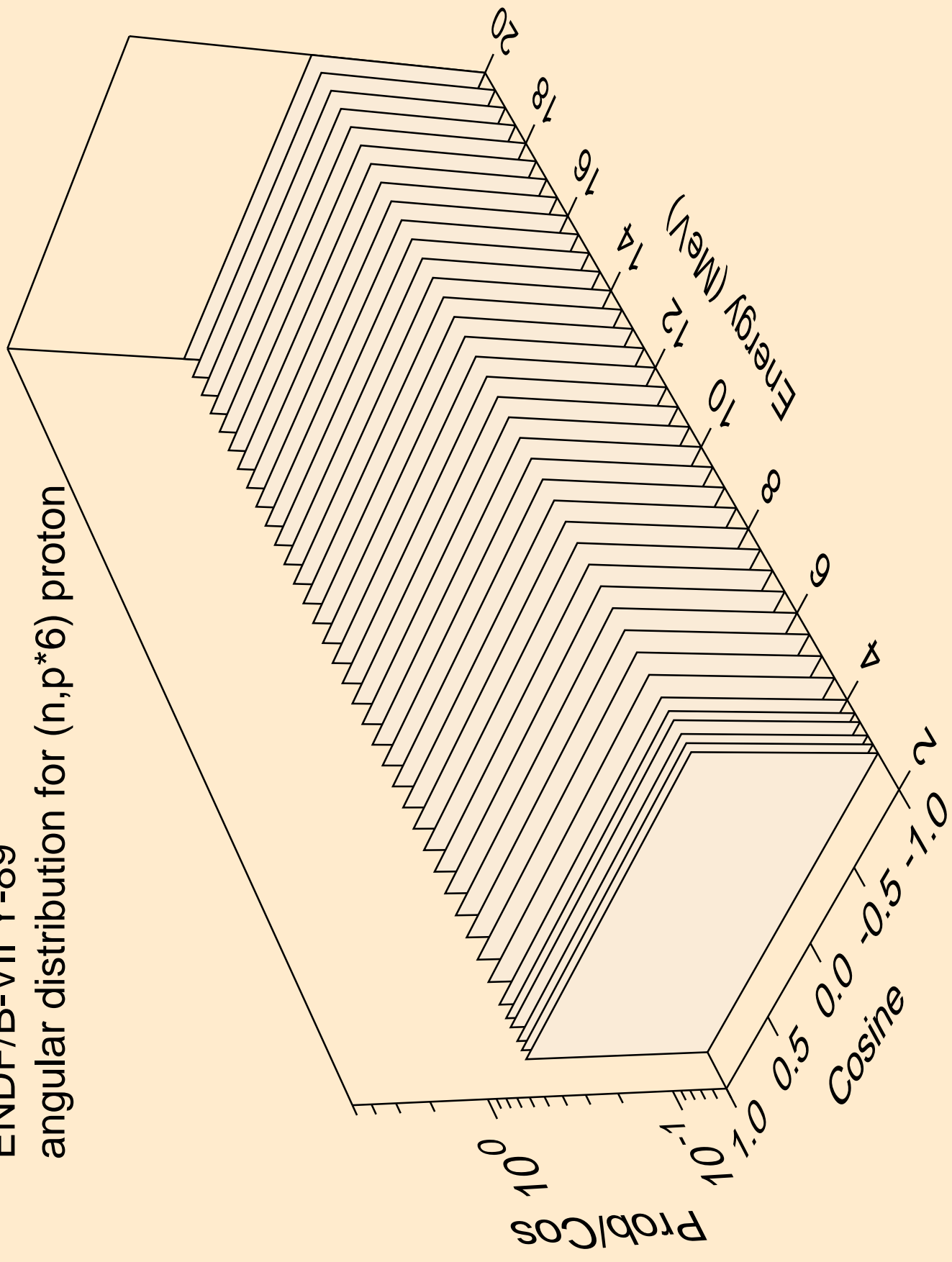
ENDF/B-VII Y-89  
angular distribution for (n,p\*4) proton



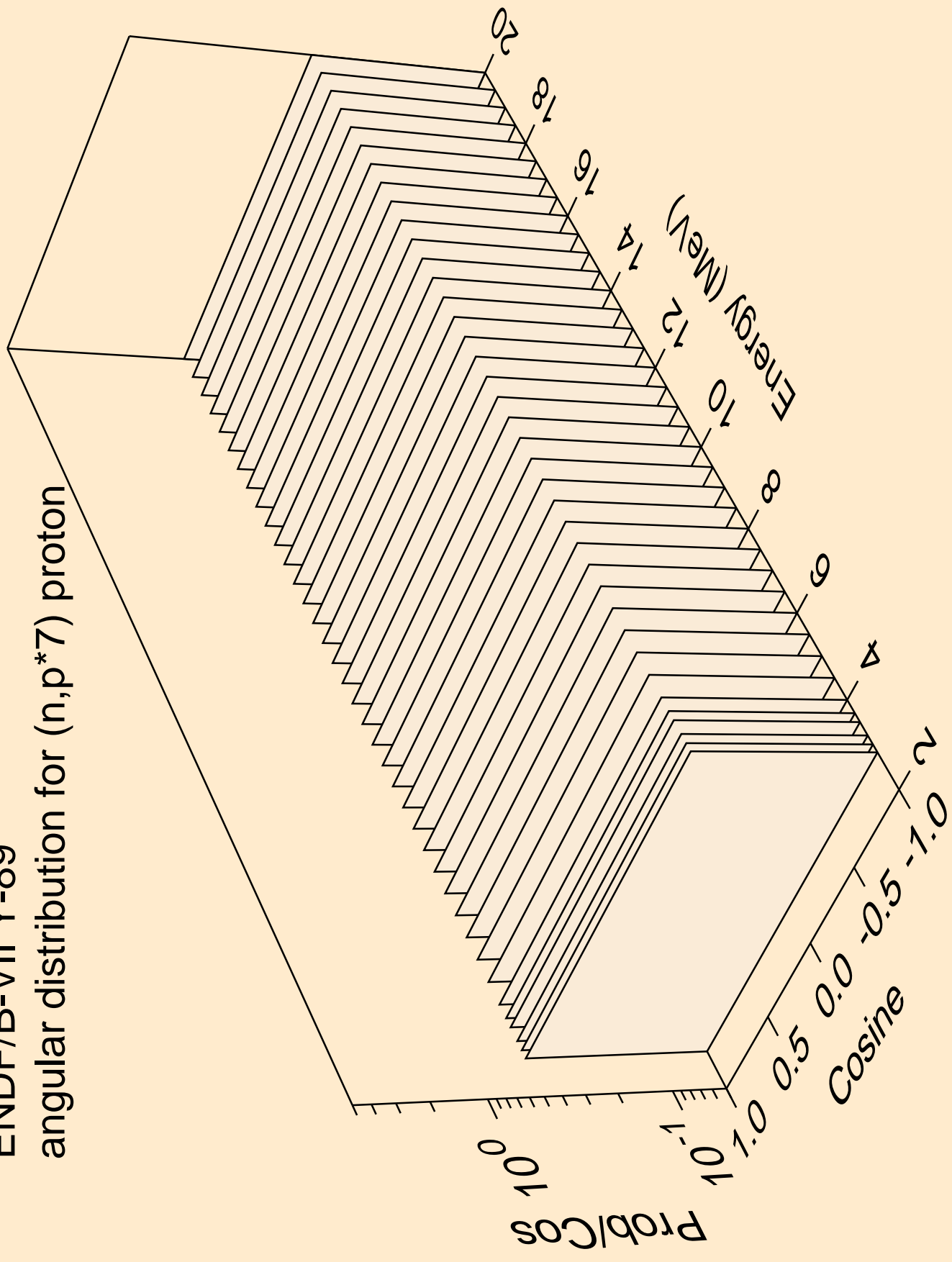
ENDF/B-VII Y-89  
angular distribution for (n,p\*5) proton



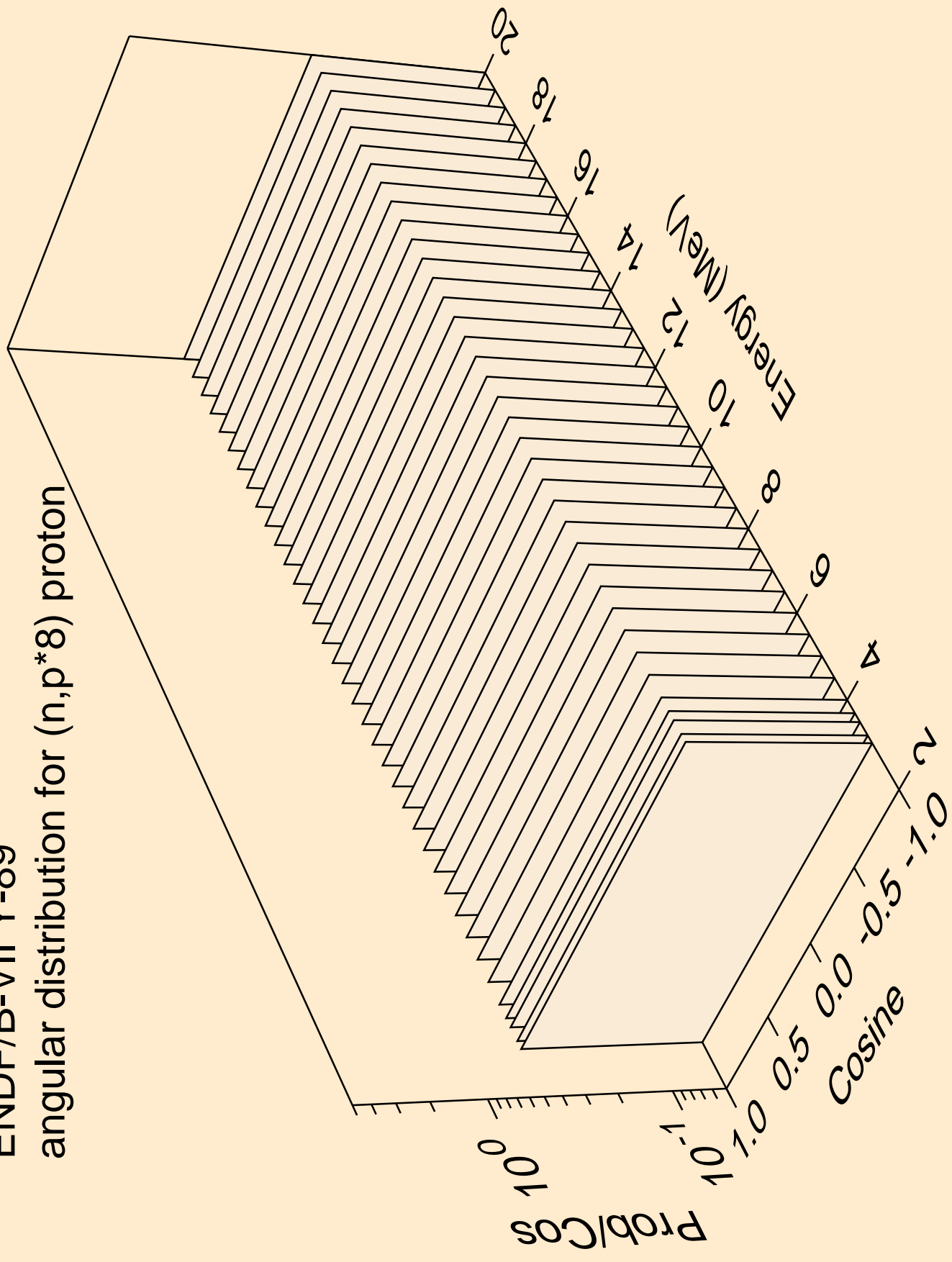
ENDF/B-VII Y-89  
angular distribution for (n,p\*6) proton



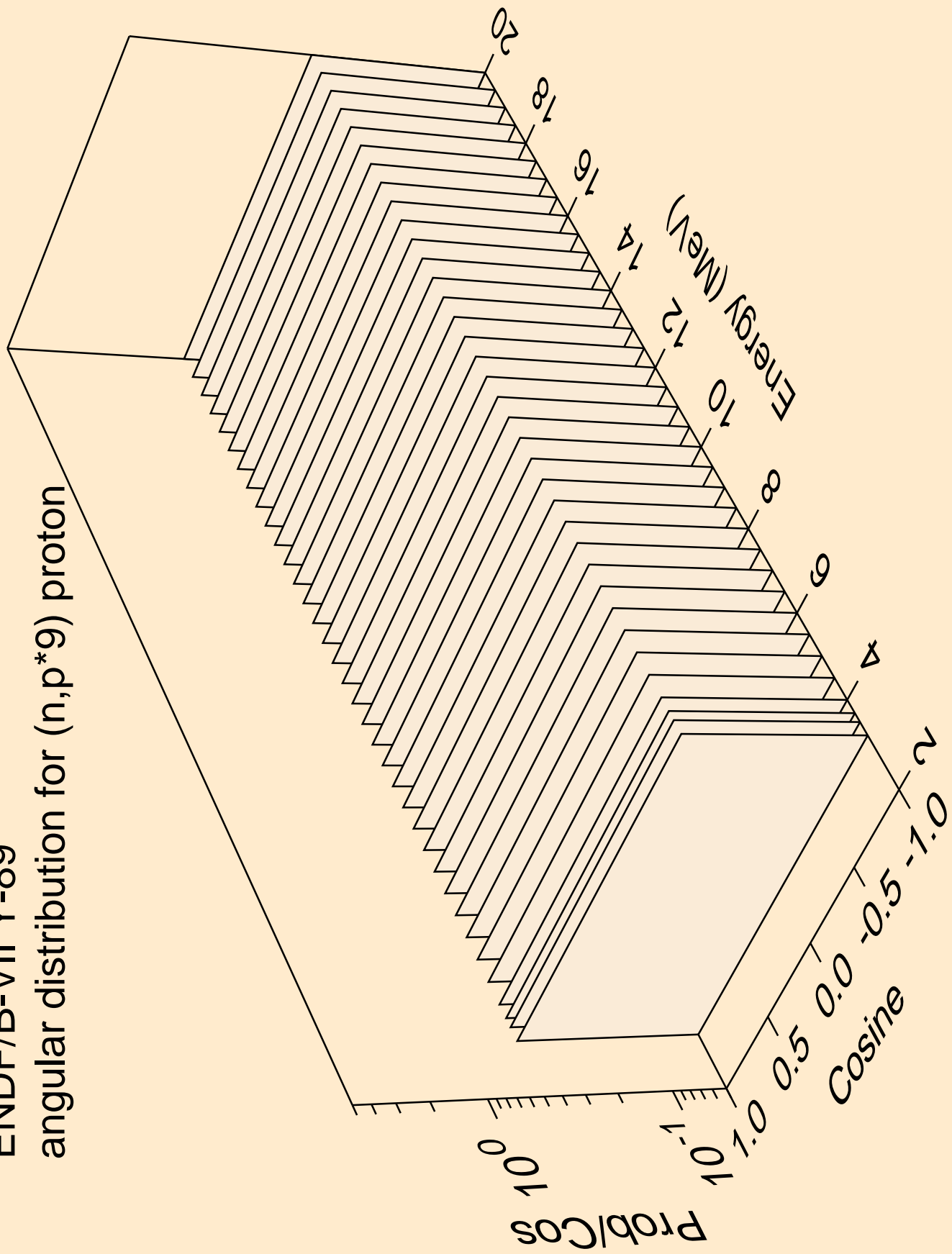
ENDF/B-VII Y-89  
angular distribution for (n,p\*7) proton



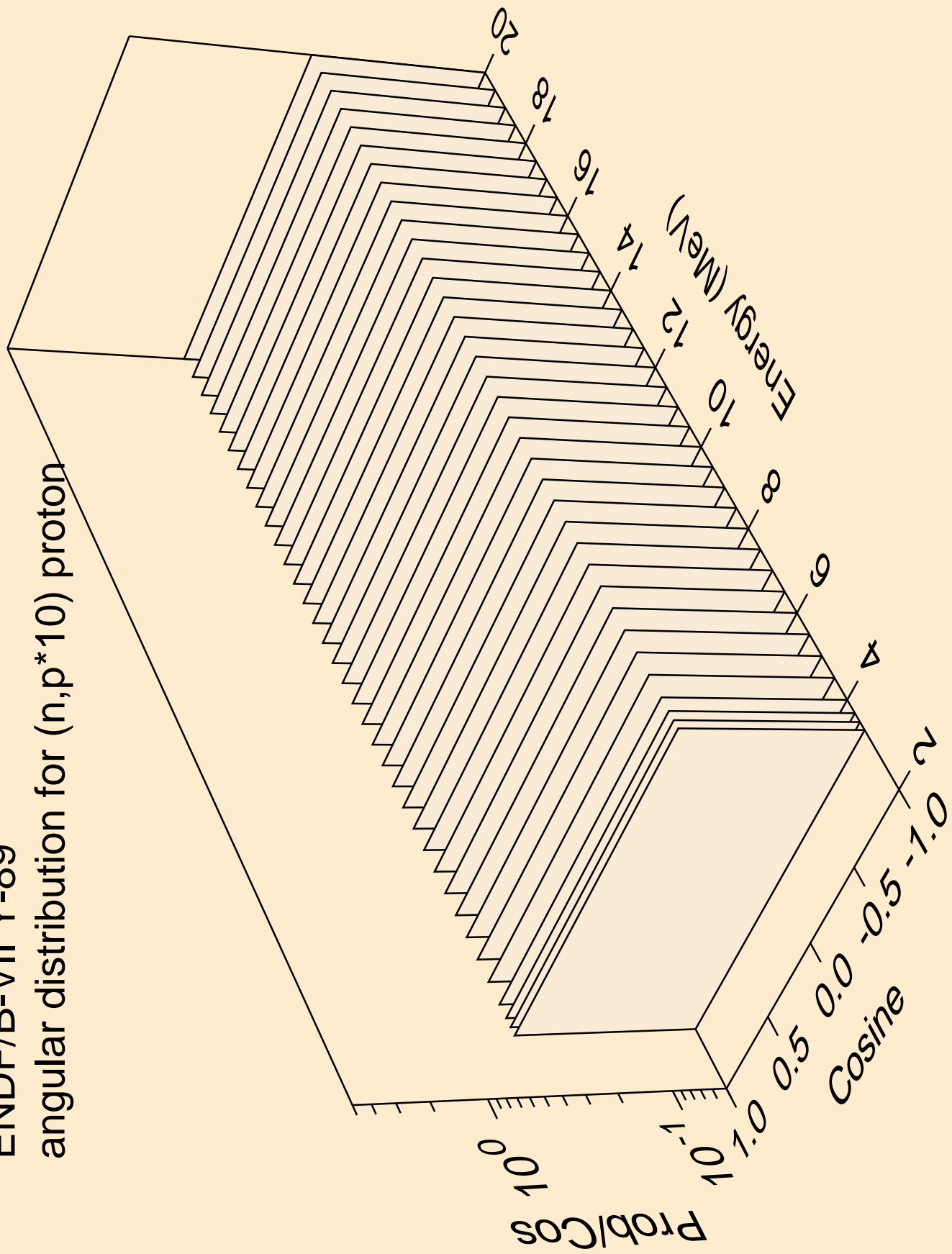
ENDF/B-VII Y-89  
angular distribution for (n,p\*8) proton



ENDF/B-VII Y-89  
angular distribution for (n,p\*9) proton

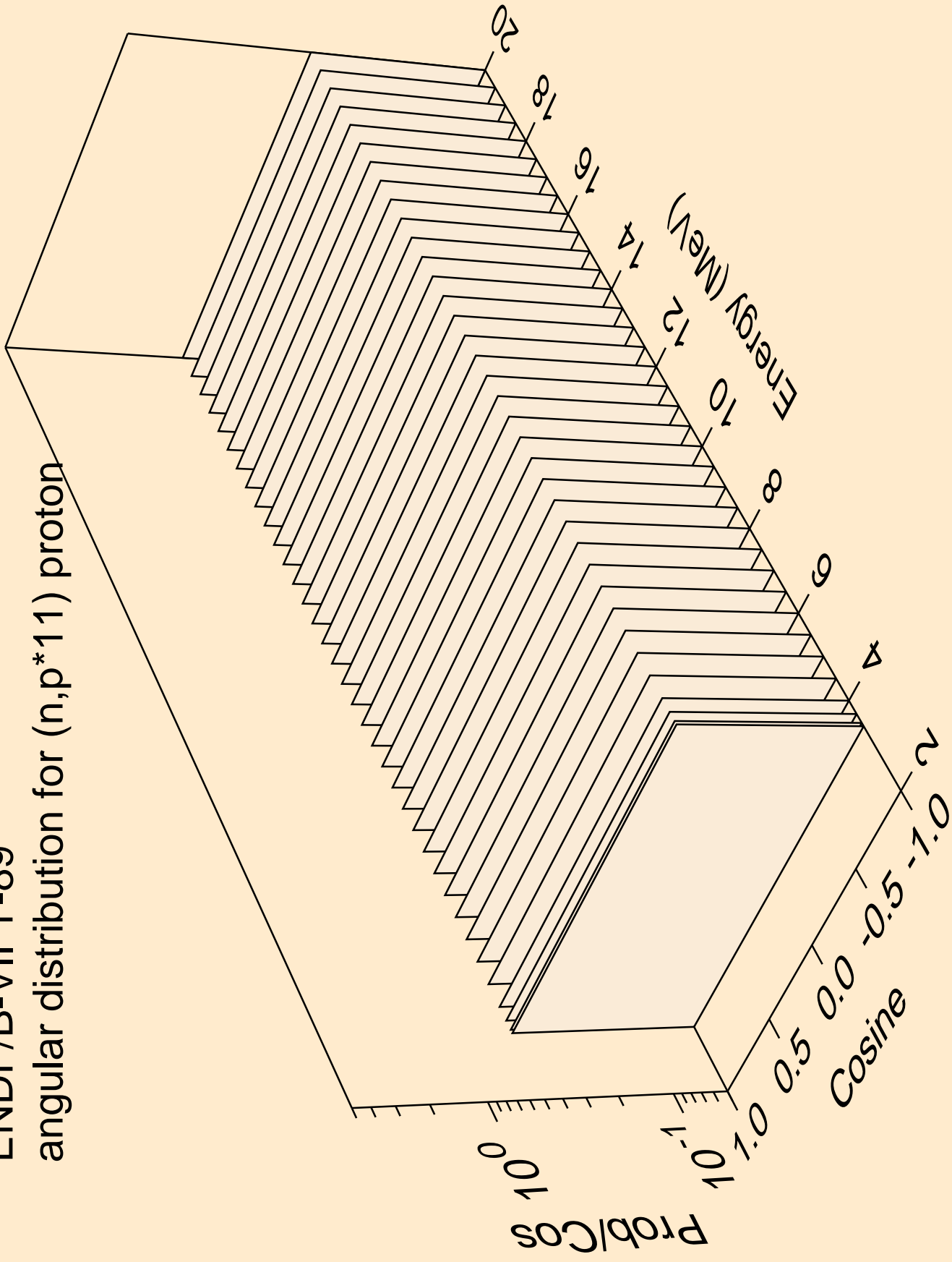


ENDF/B-VII Y-89  
angular distribution for (n,p\*10) proton



ENDF/B-VII Y-89

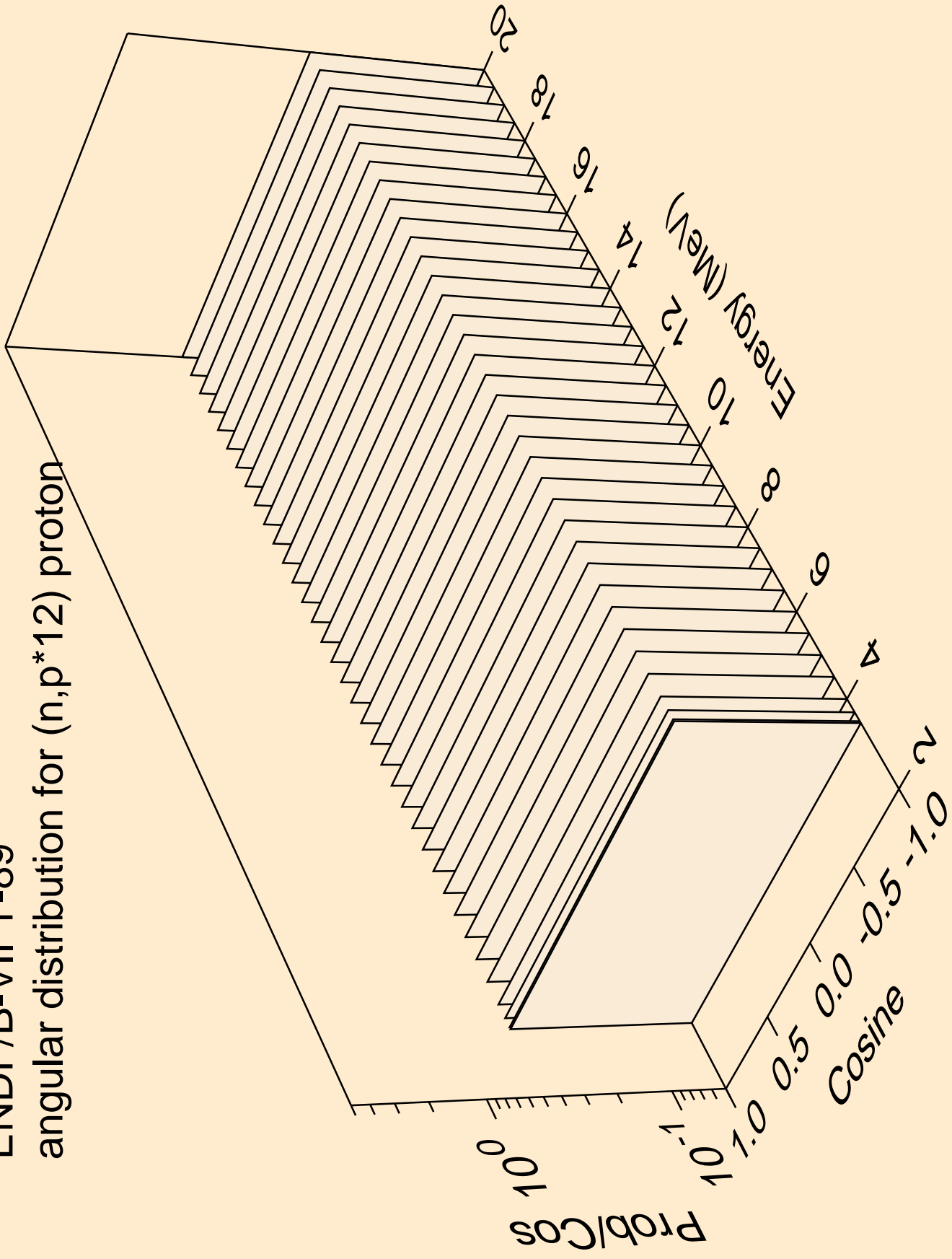
angular distribution for (n,p\*11) proton



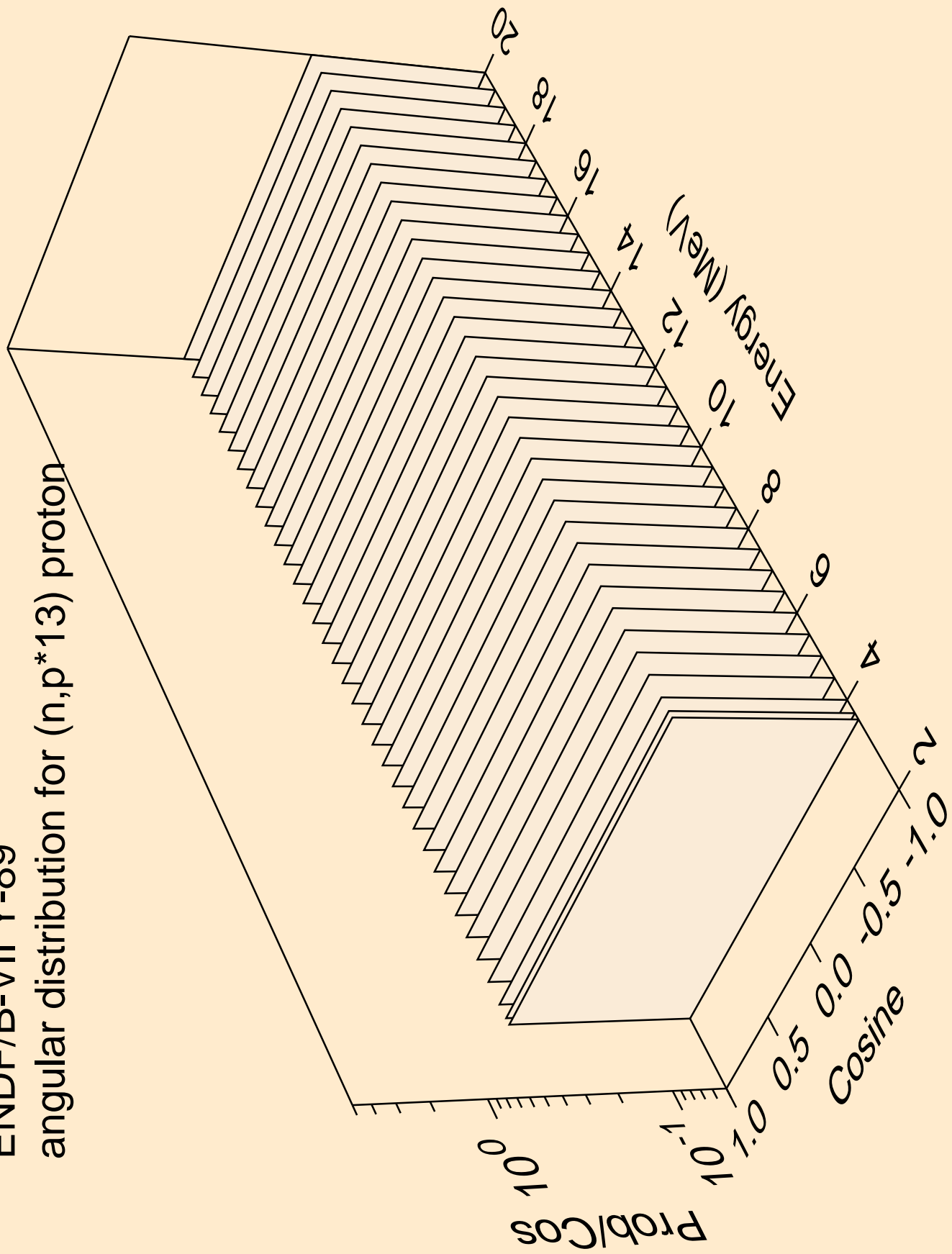


ENDF/B-VII Y-89

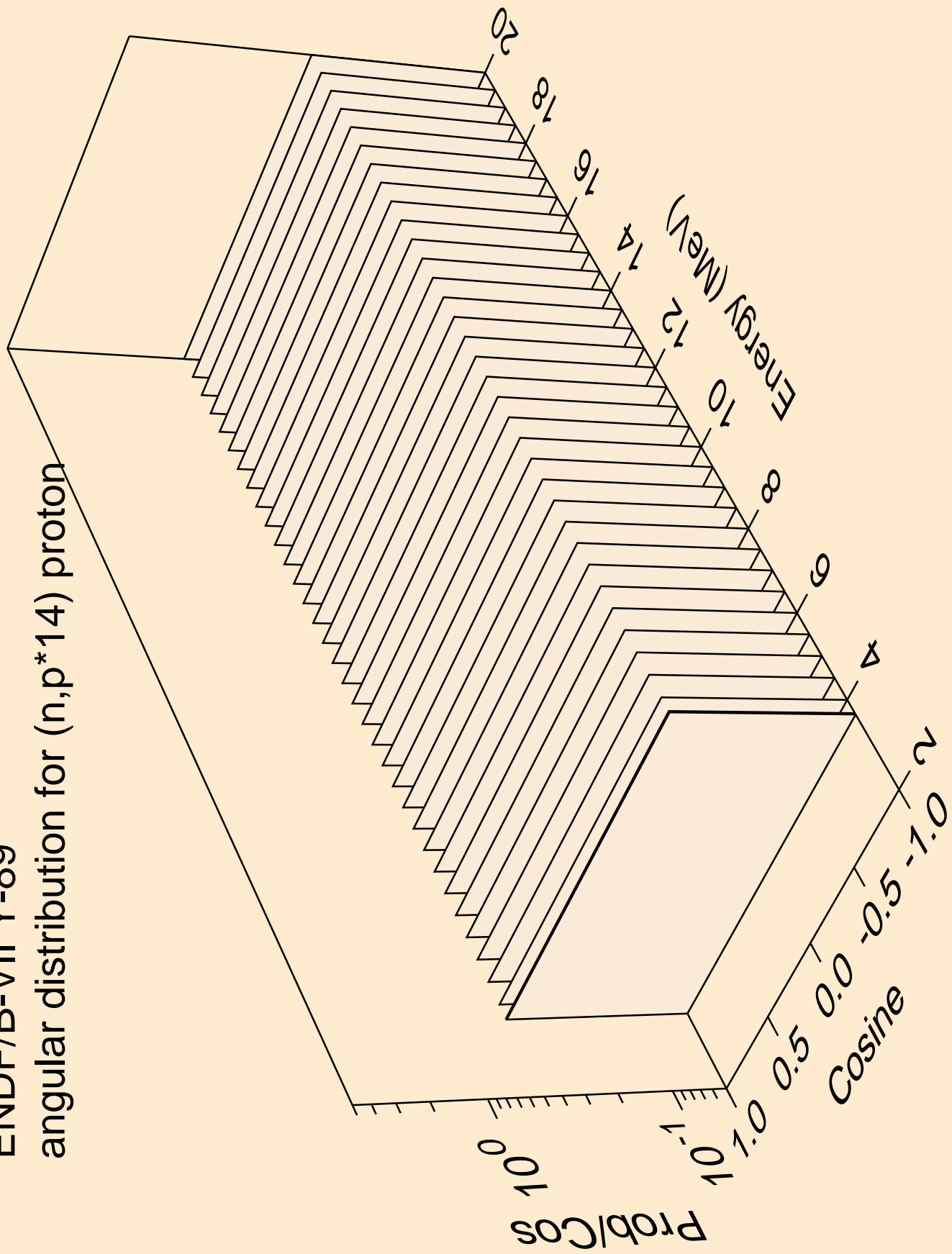
angular distribution for (n,p\*12) proton



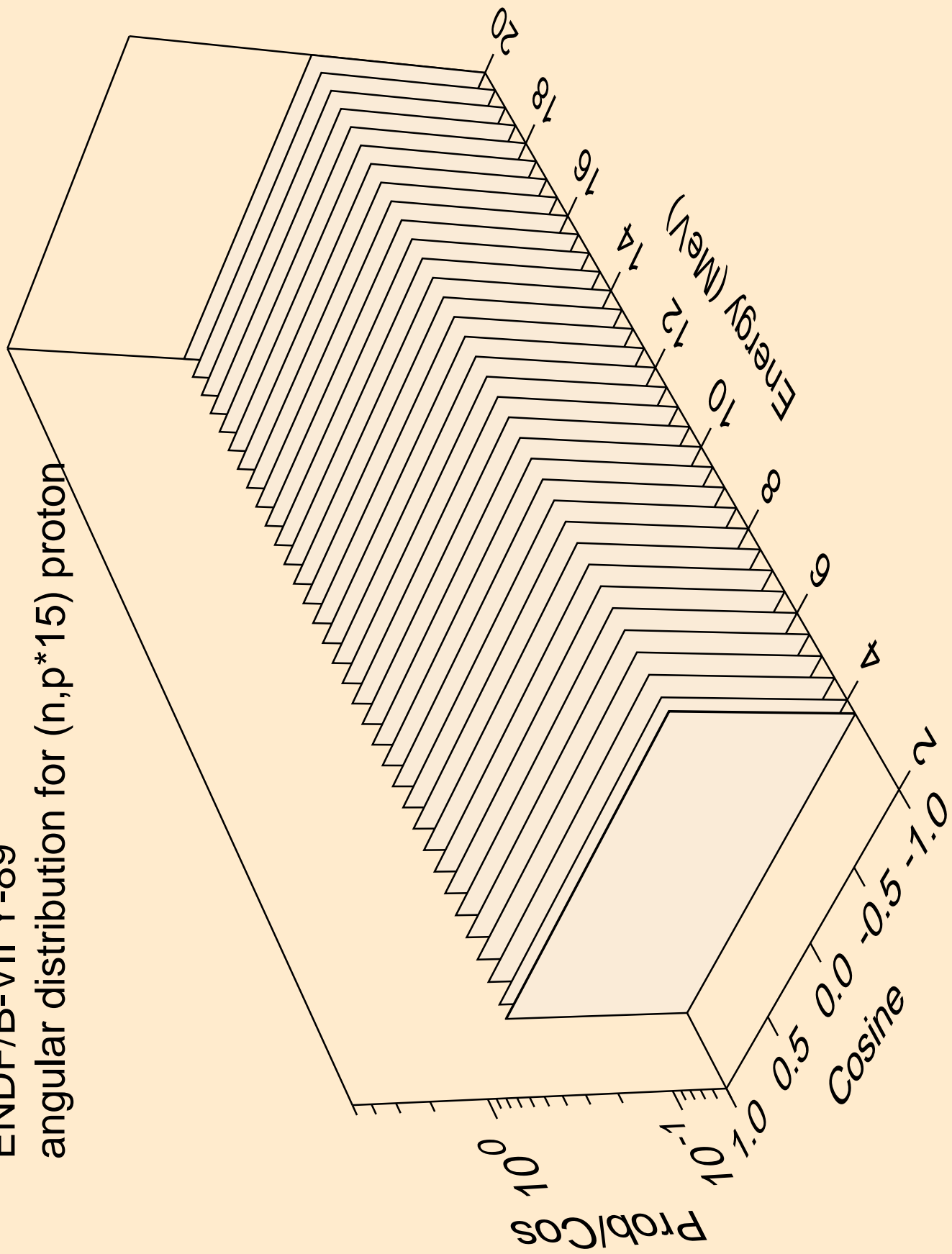
ENDF/B-VII Y-89  
angular distribution for (n,p\*13) proton



ENDF/B-VII Y-89  
angular distribution for (n,p\*14) proton

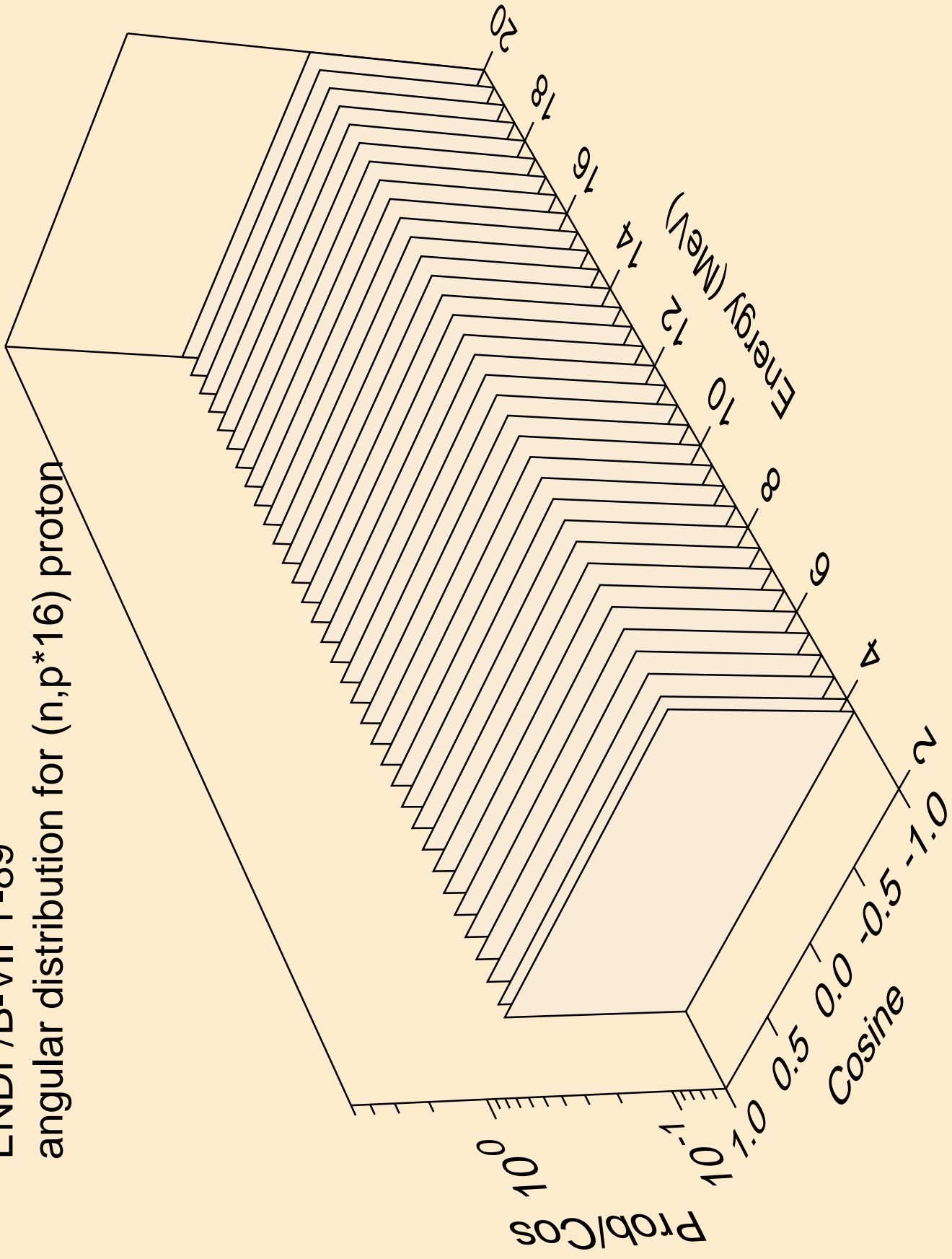


ENDF/B-VII Y-89  
angular distribution for (n,p\*15) proton



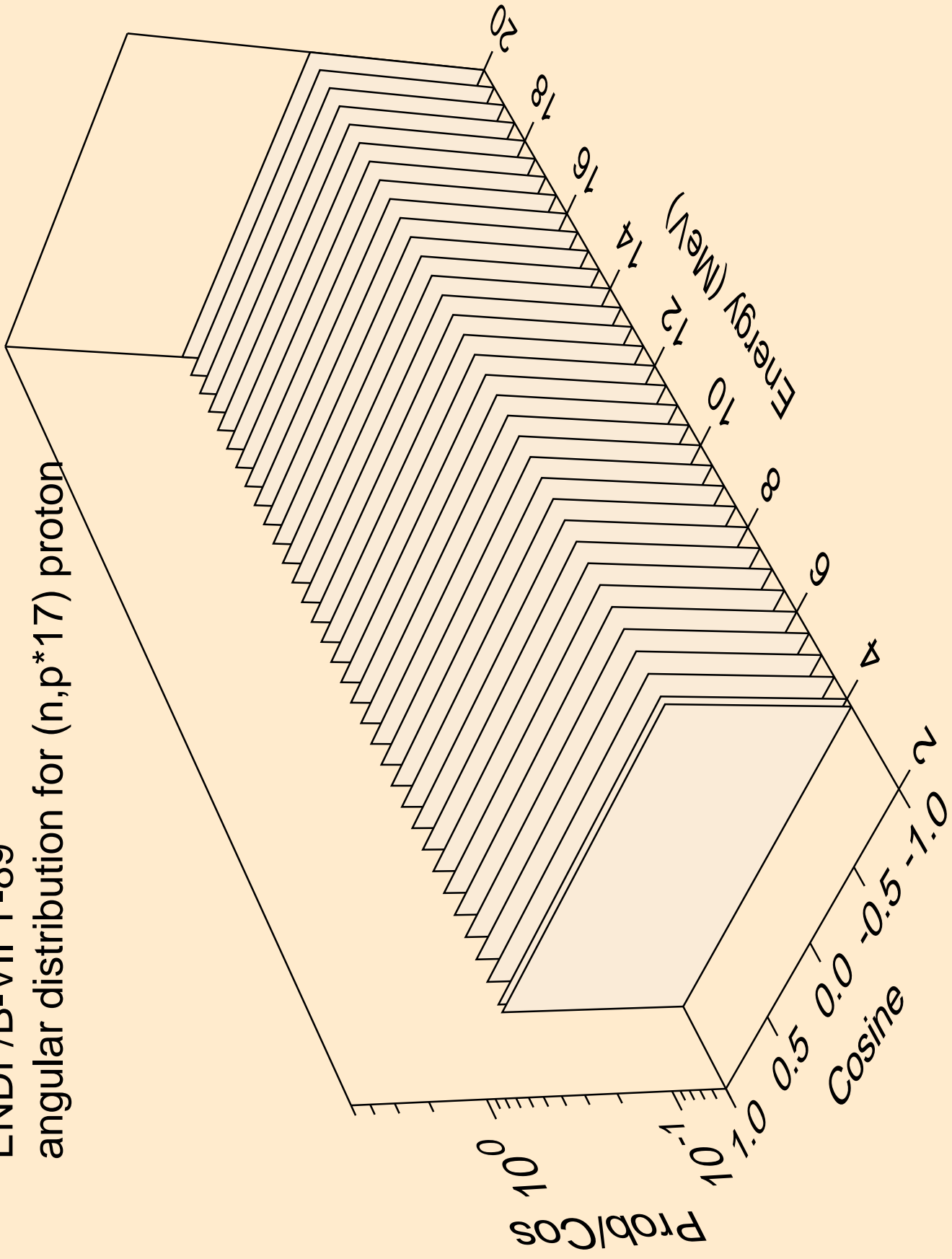
ENDF/B-VII Y-89

angular distribution for (n,p\*16) proton

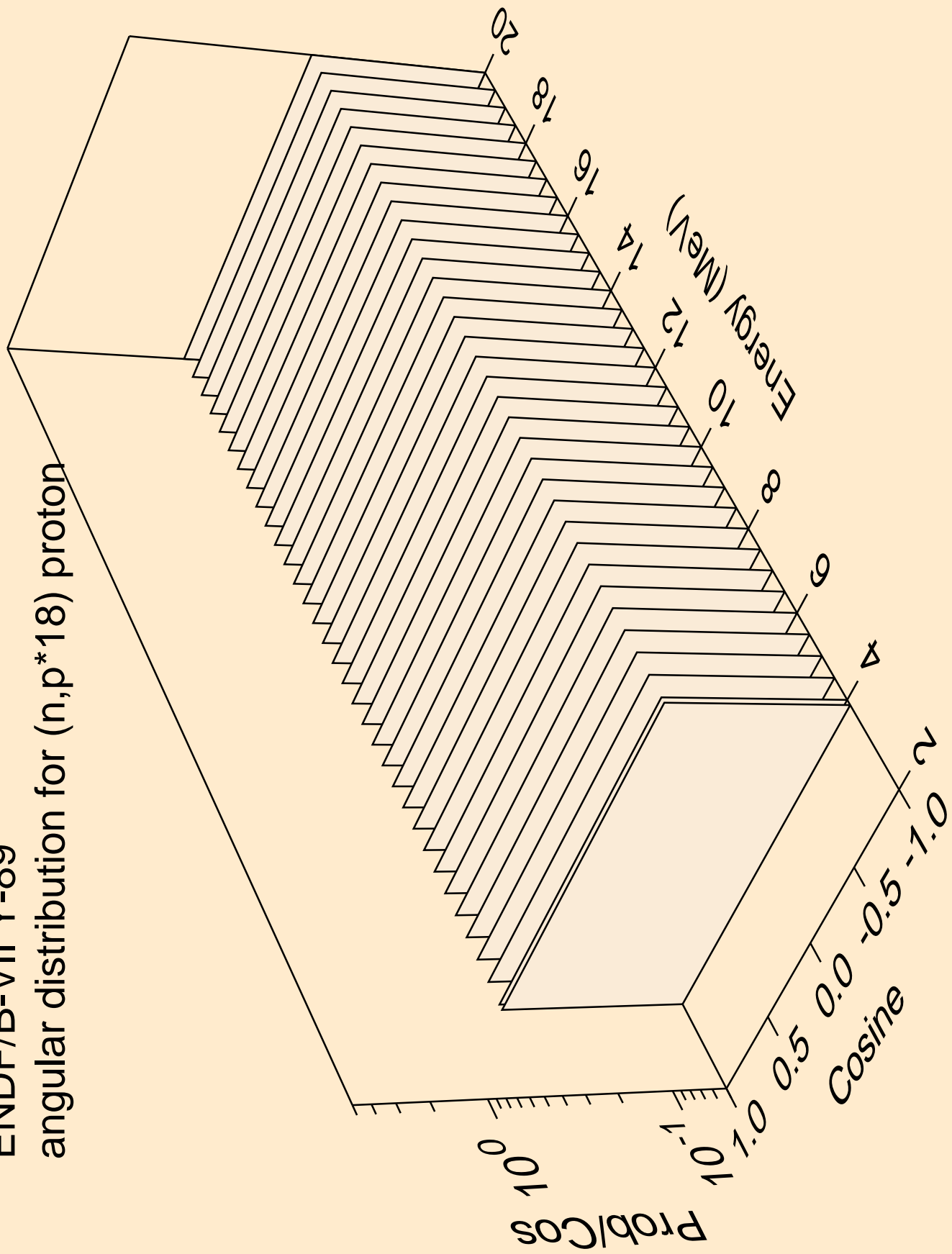


ENDF/B-VII Y-89

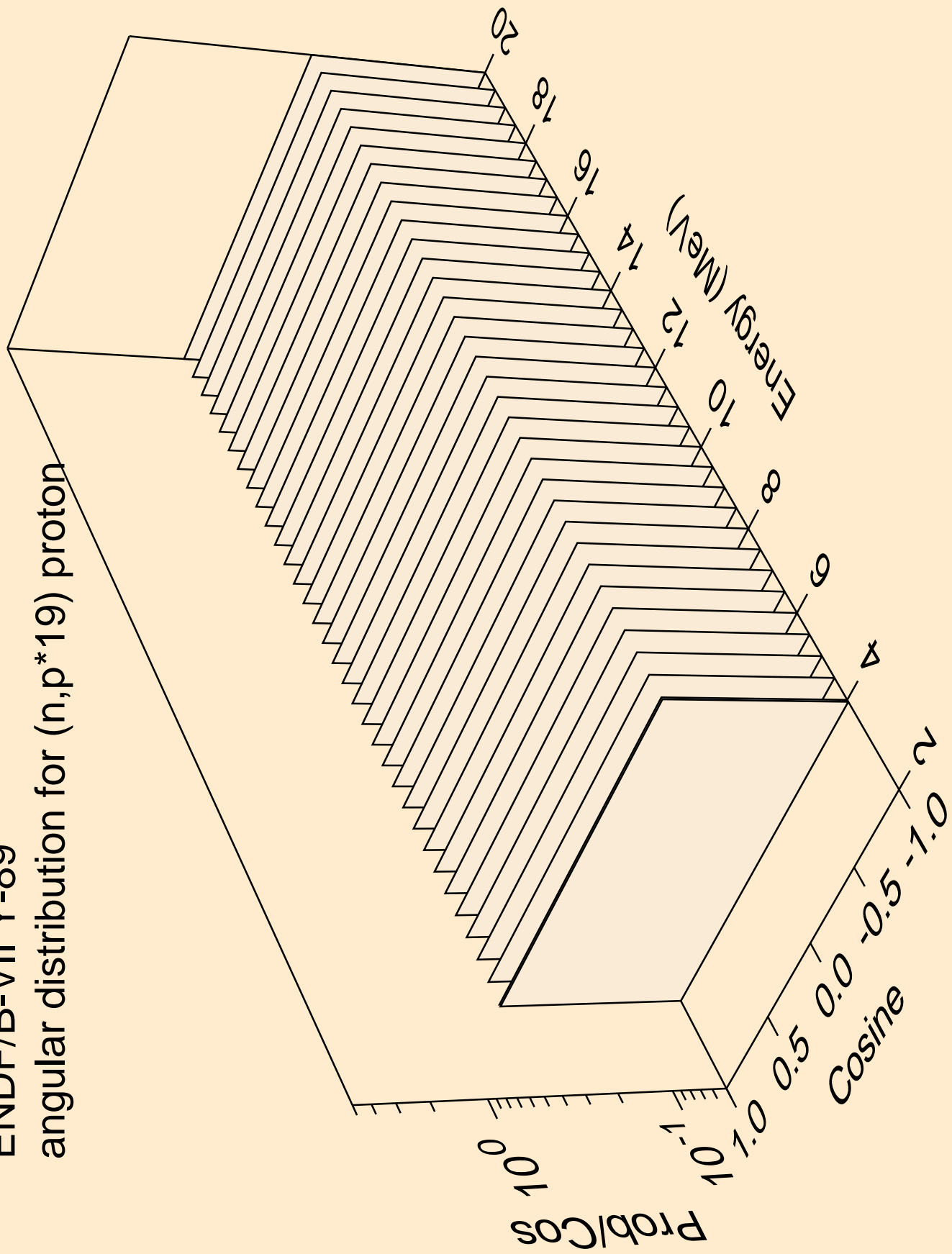
angular distribution for (n,p\*17) proton



ENDF/B-VII Y-89  
angular distribution for (n,p\*18) proton

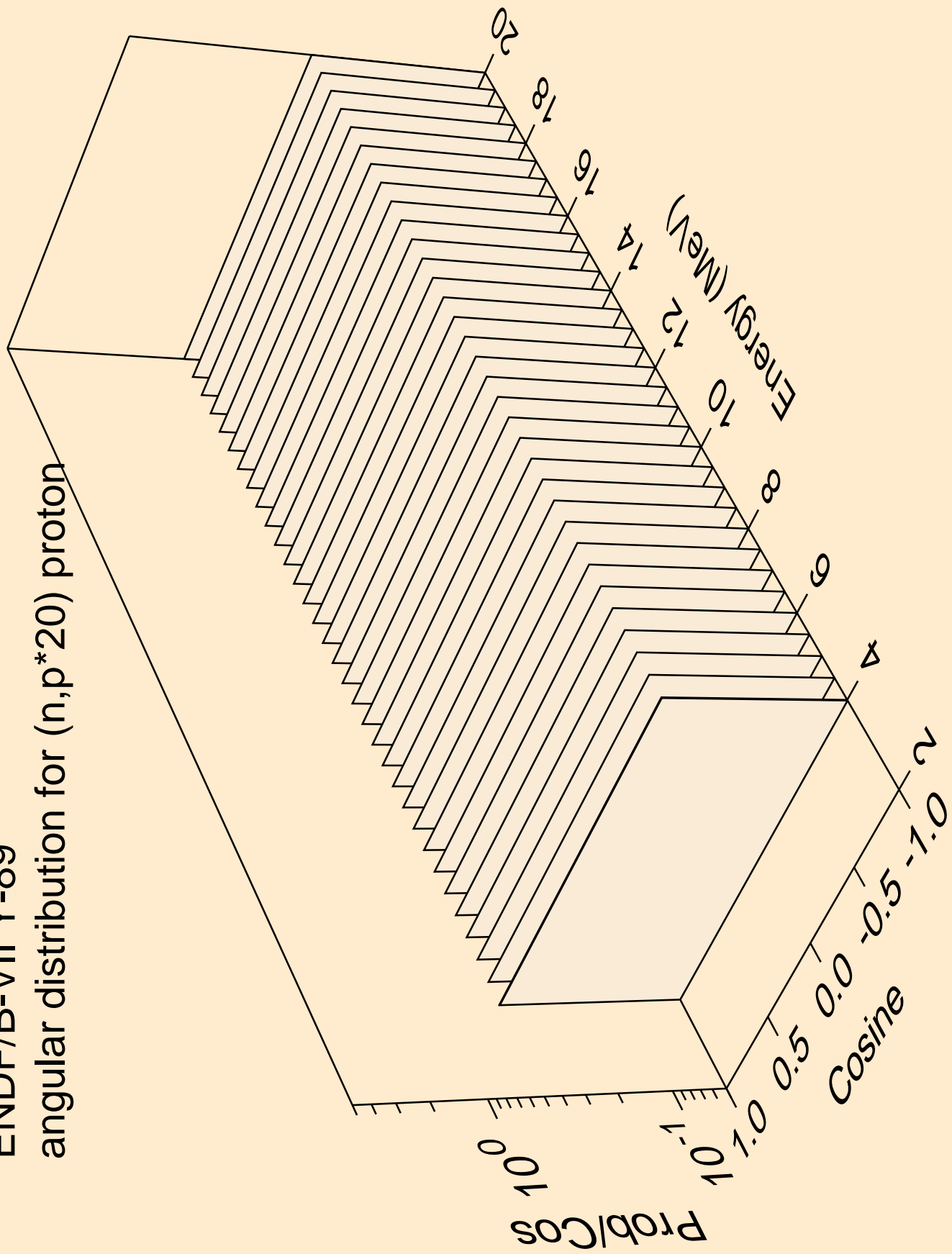


ENDF/B-VII Y-89  
angular distribution for (n,p\*19) proton

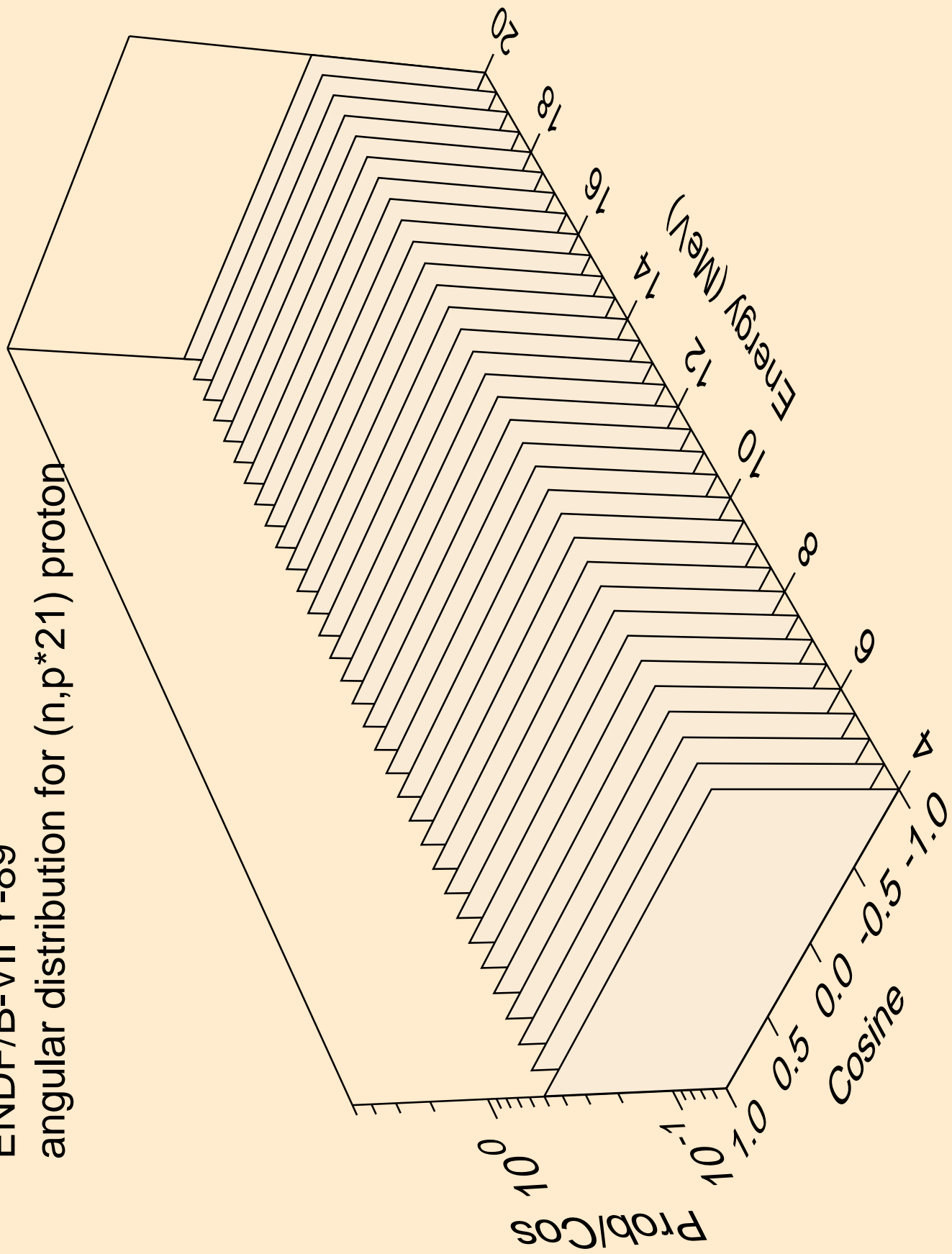




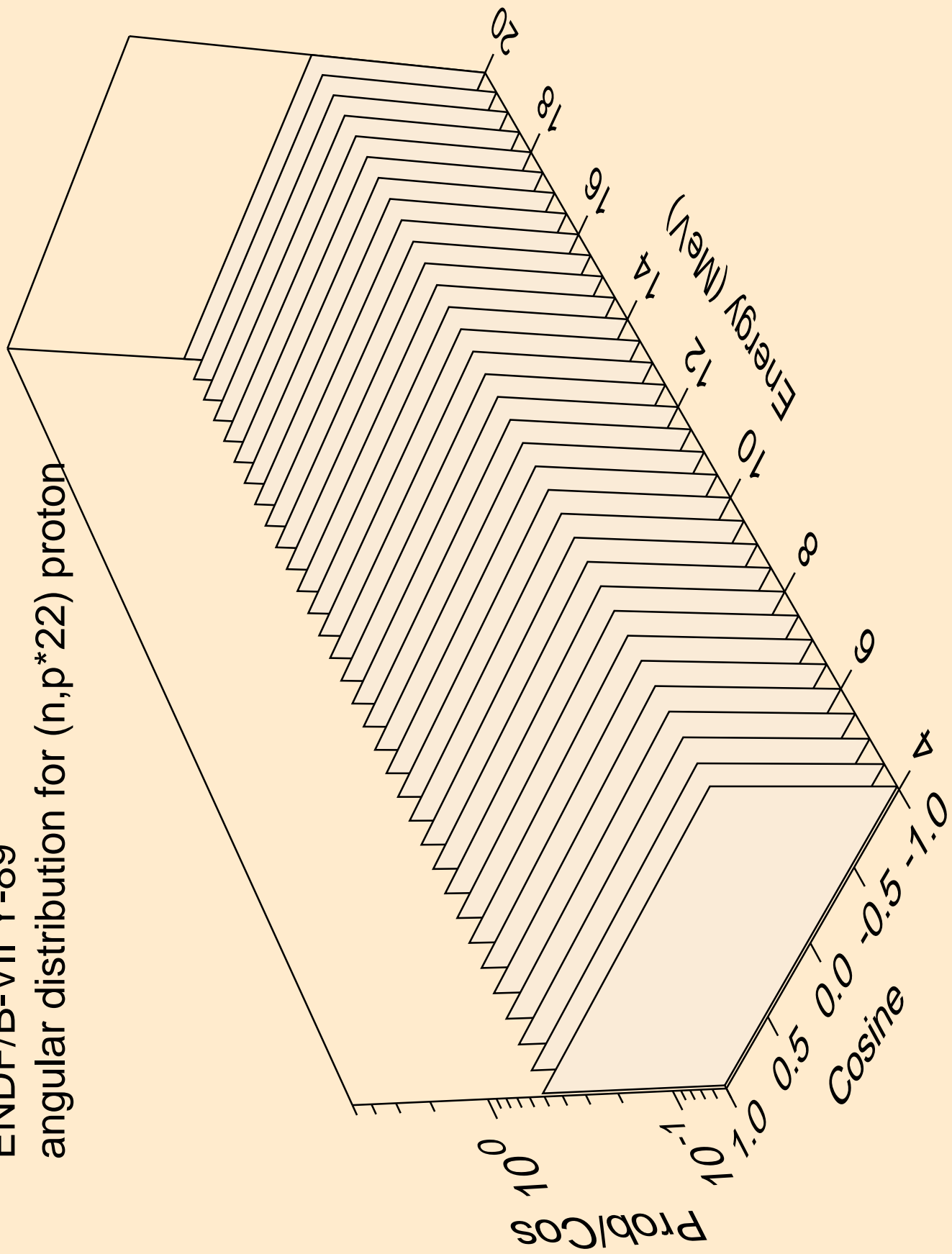
ENDF/B-VII Y-89  
angular distribution for (n,p\*20) proton



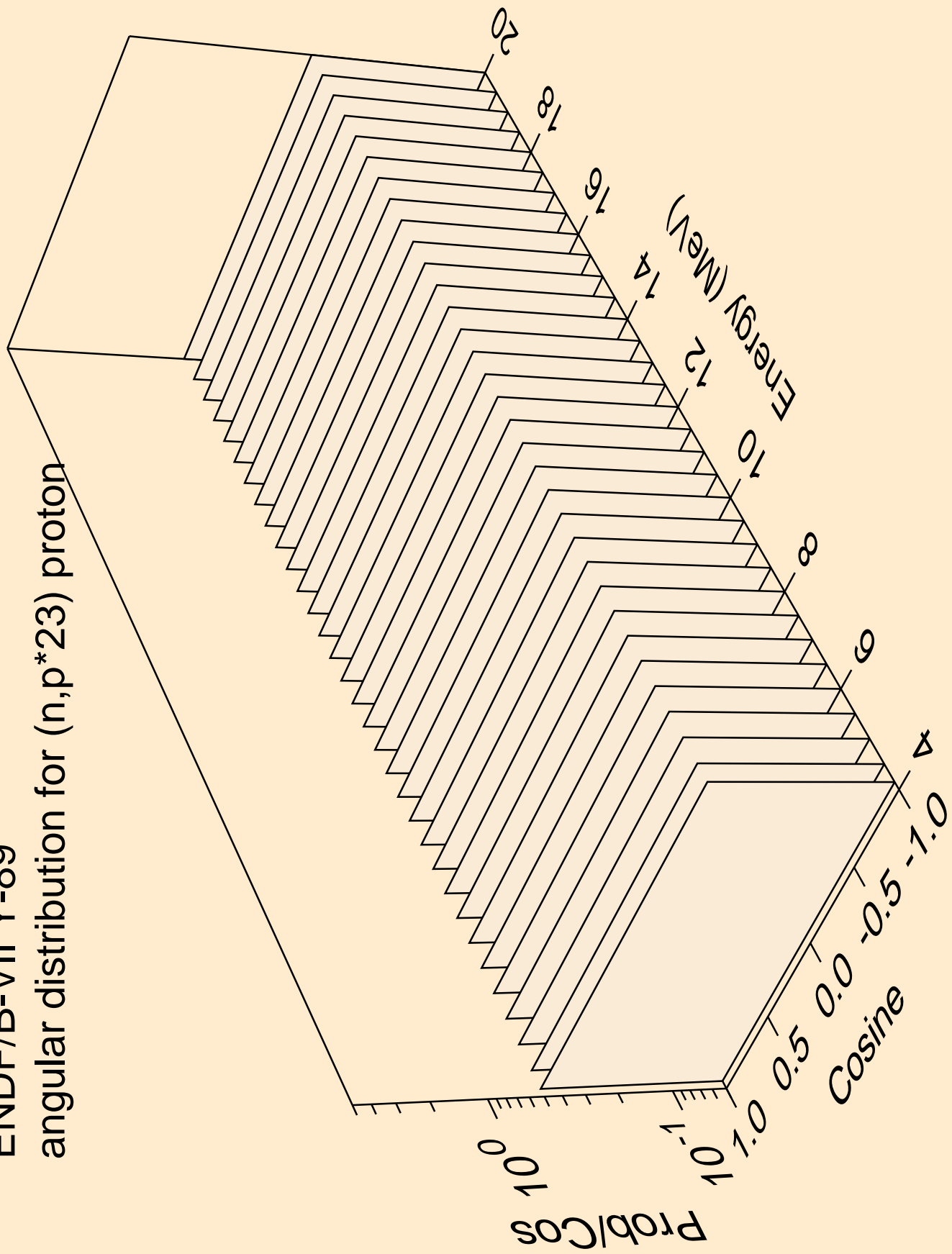
ENDF/B-VII Y-89  
angular distribution for (n,p\*21) proton



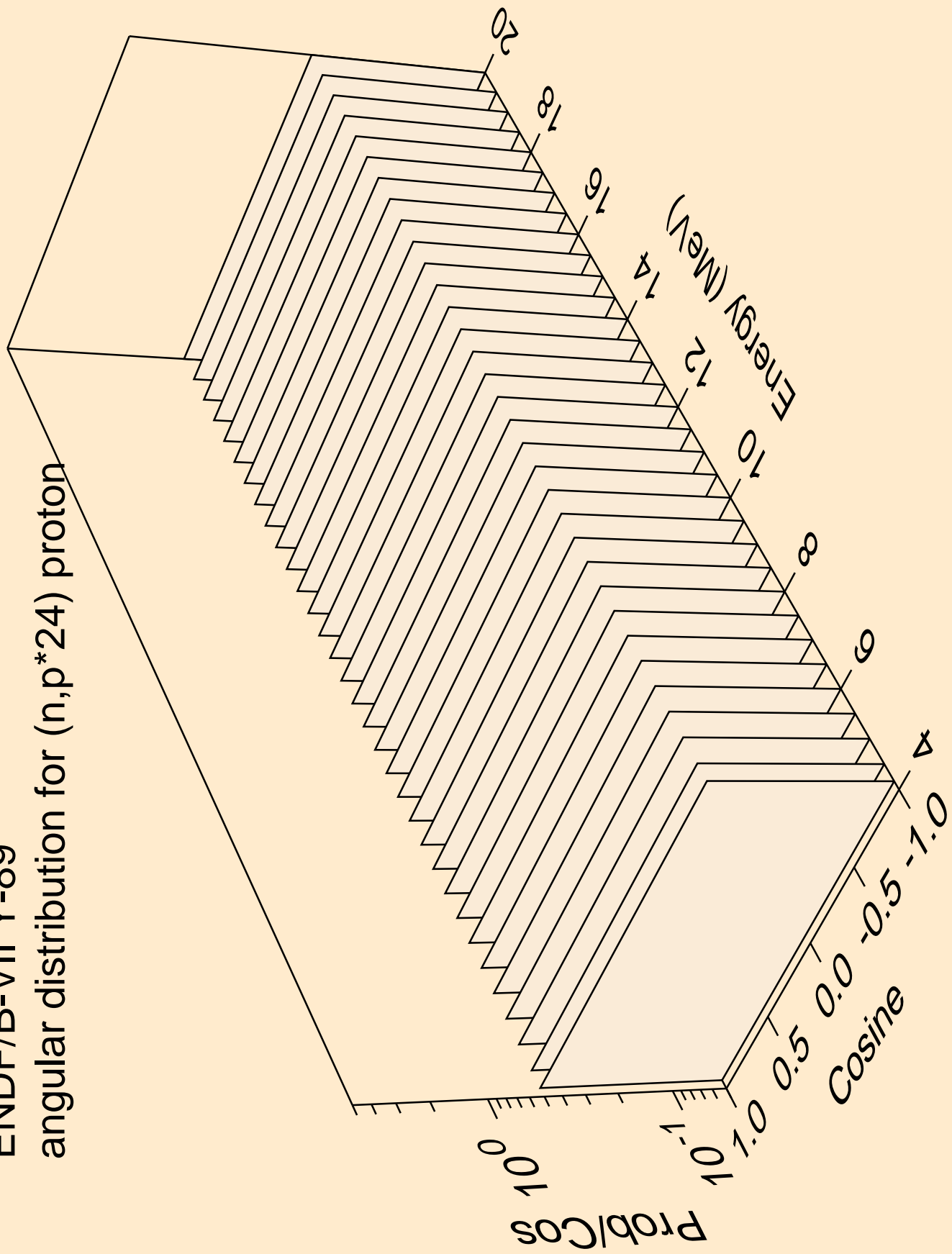
ENDF/B-VII Y-89  
angular distribution for (n,p\*22) proton



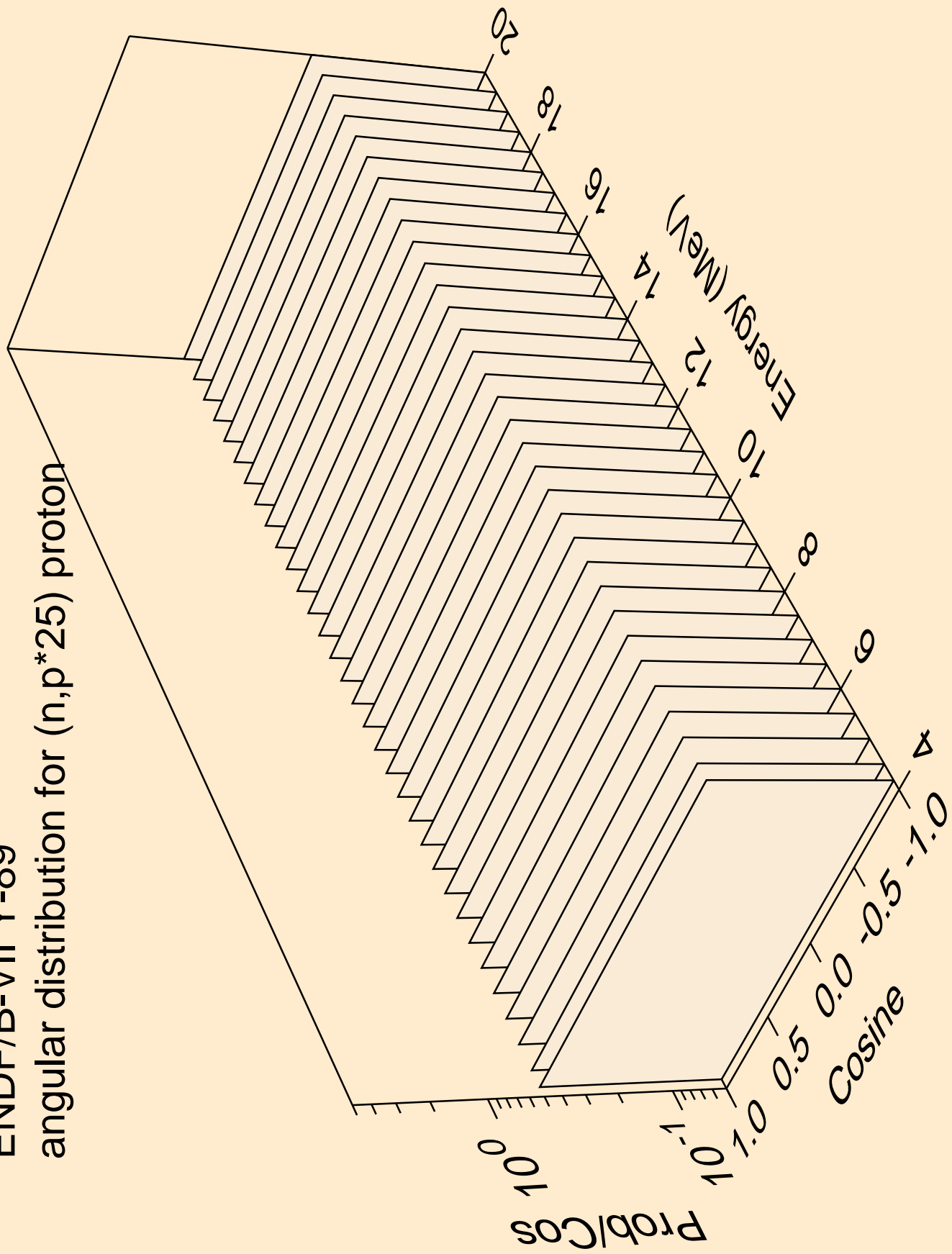
ENDF/B-VII Y-89  
angular distribution for (n,p\*23) proton



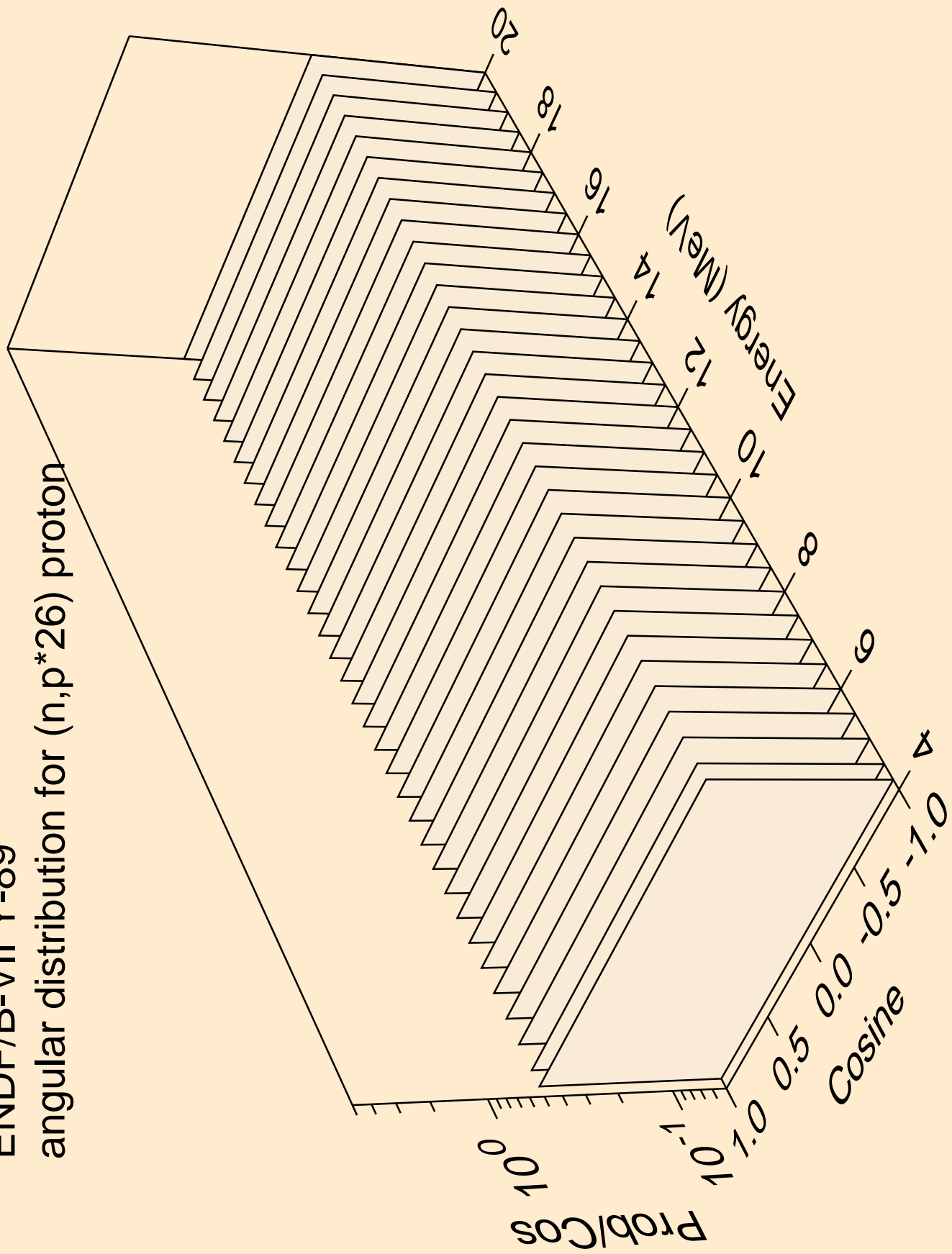
ENDF/B-VII Y-89  
angular distribution for (n,p\*24) proton



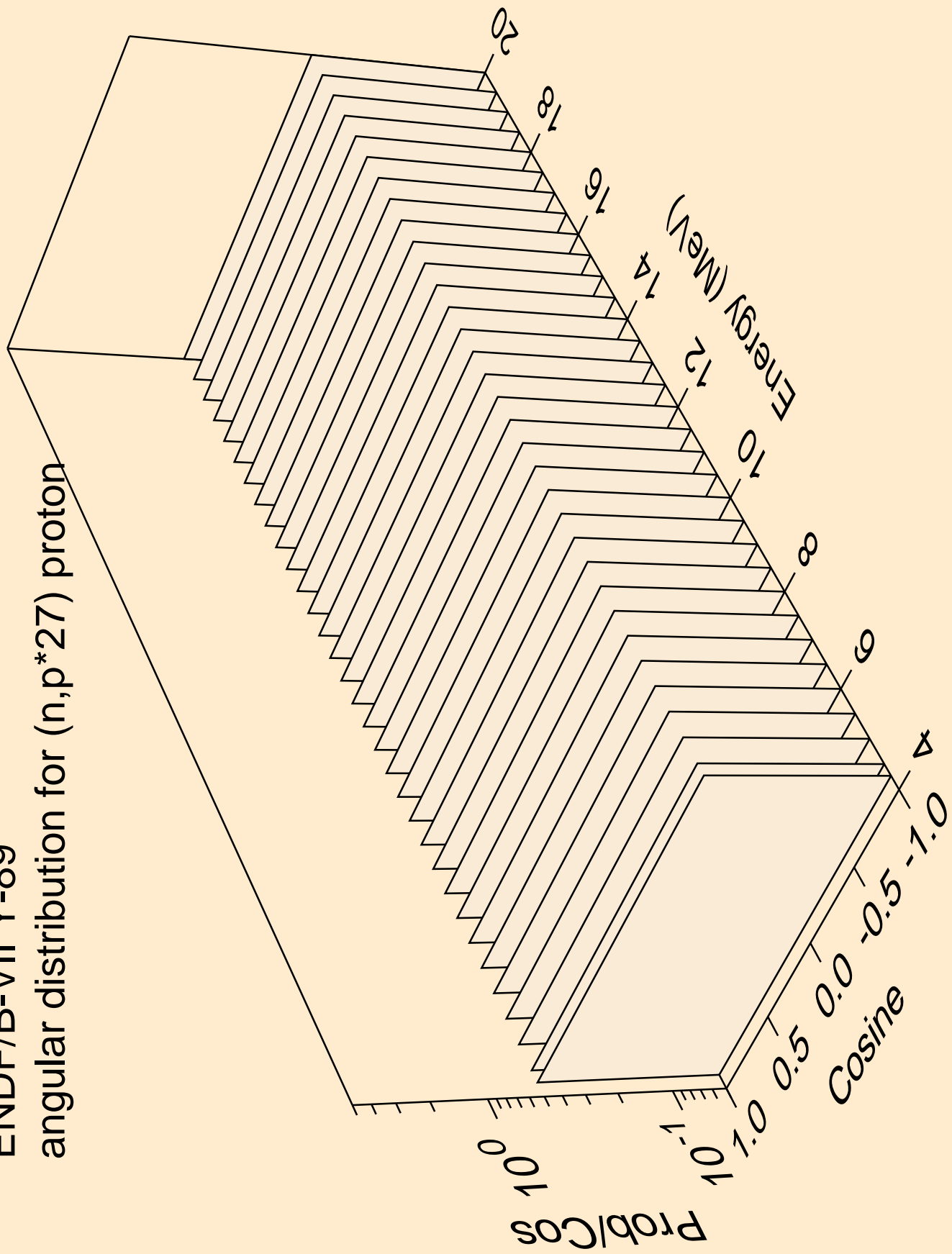
ENDF/B-VII Y-89  
angular distribution for (n,p\*25) proton



ENDF/B-VII Y-89  
angular distribution for (n,p\*26) proton



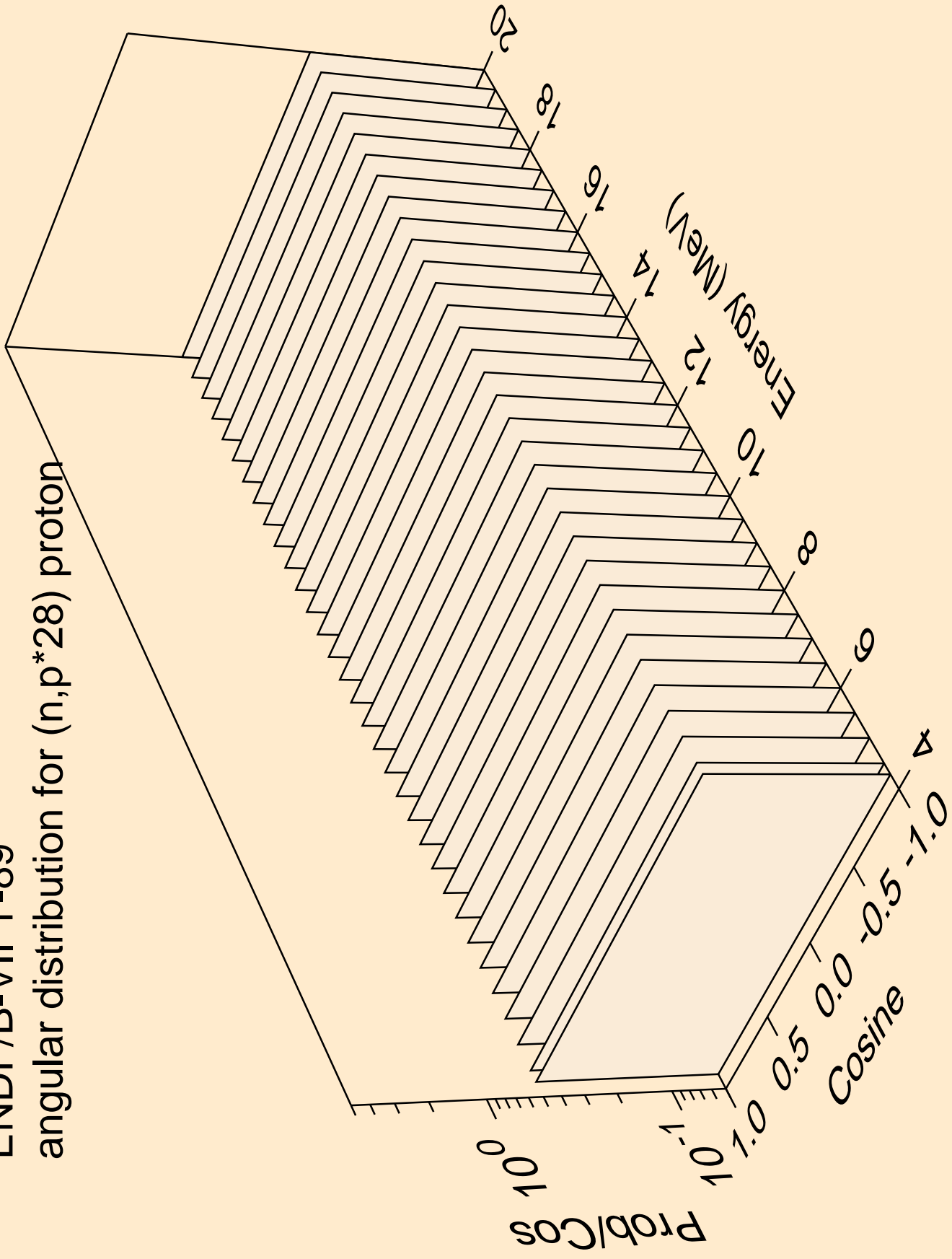
ENDF/B-VII Y-89  
angular distribution for (n,p\*27) proton



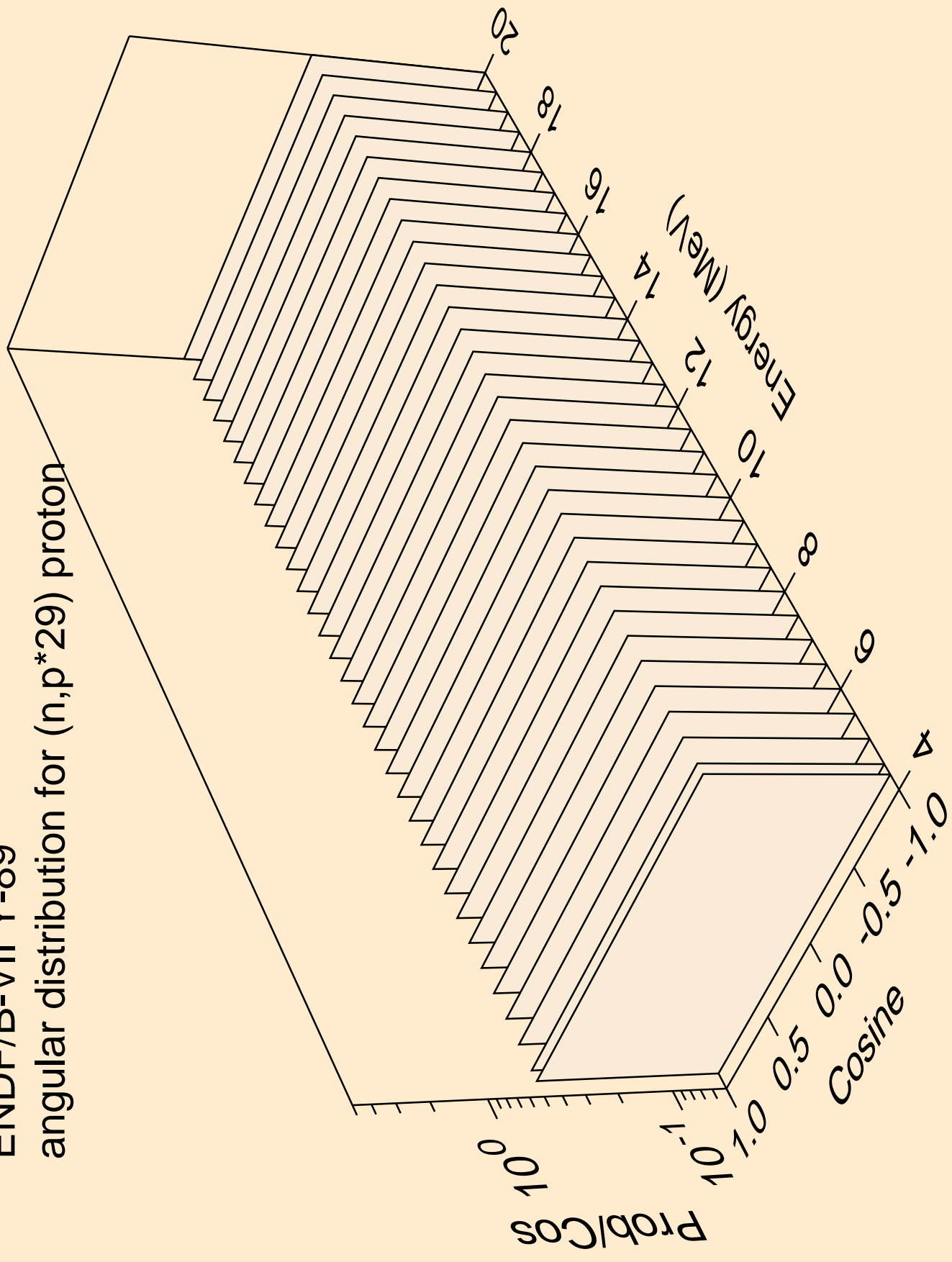


ENDF/B-VII Y-89

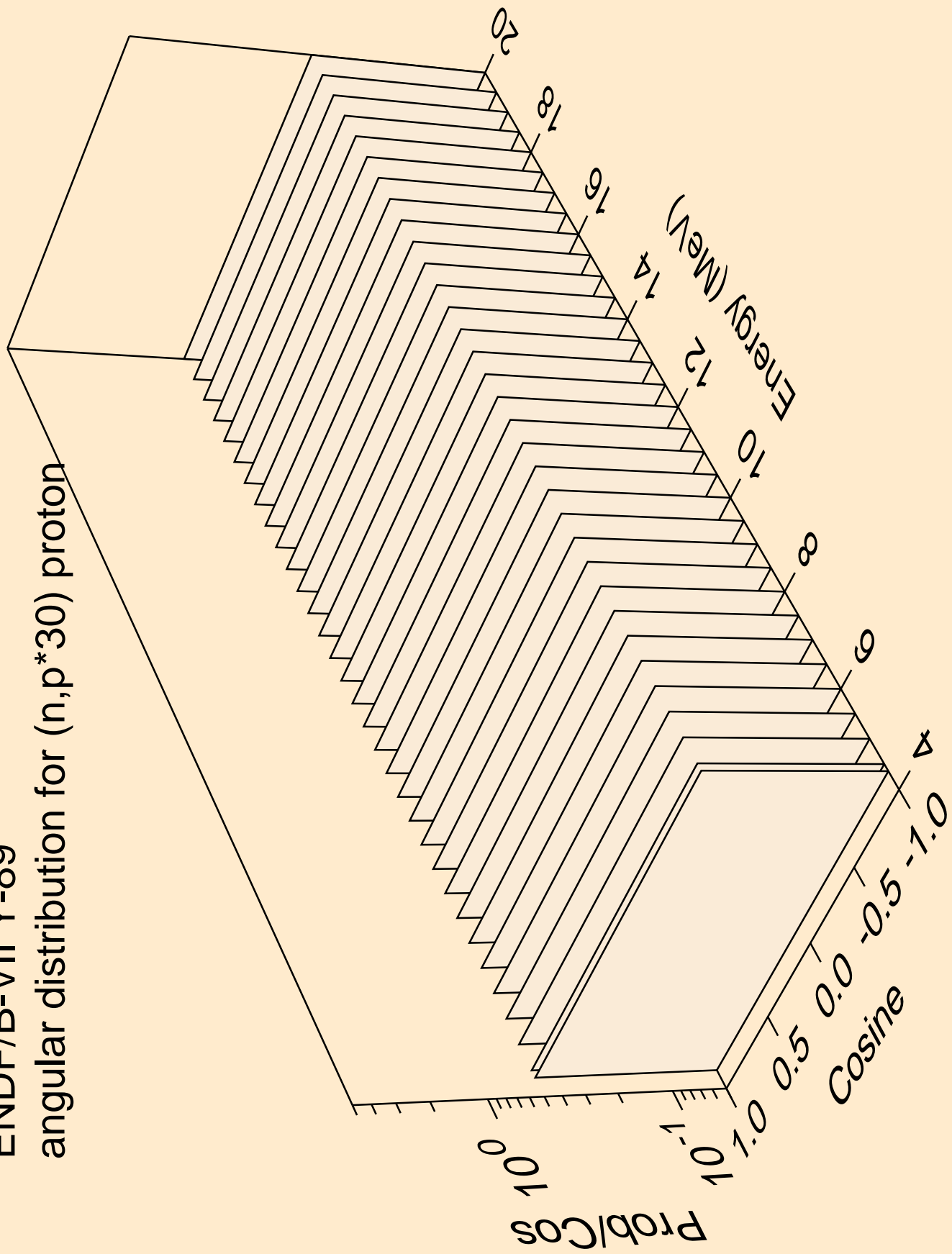
angular distribution for (n,p\*28) proton



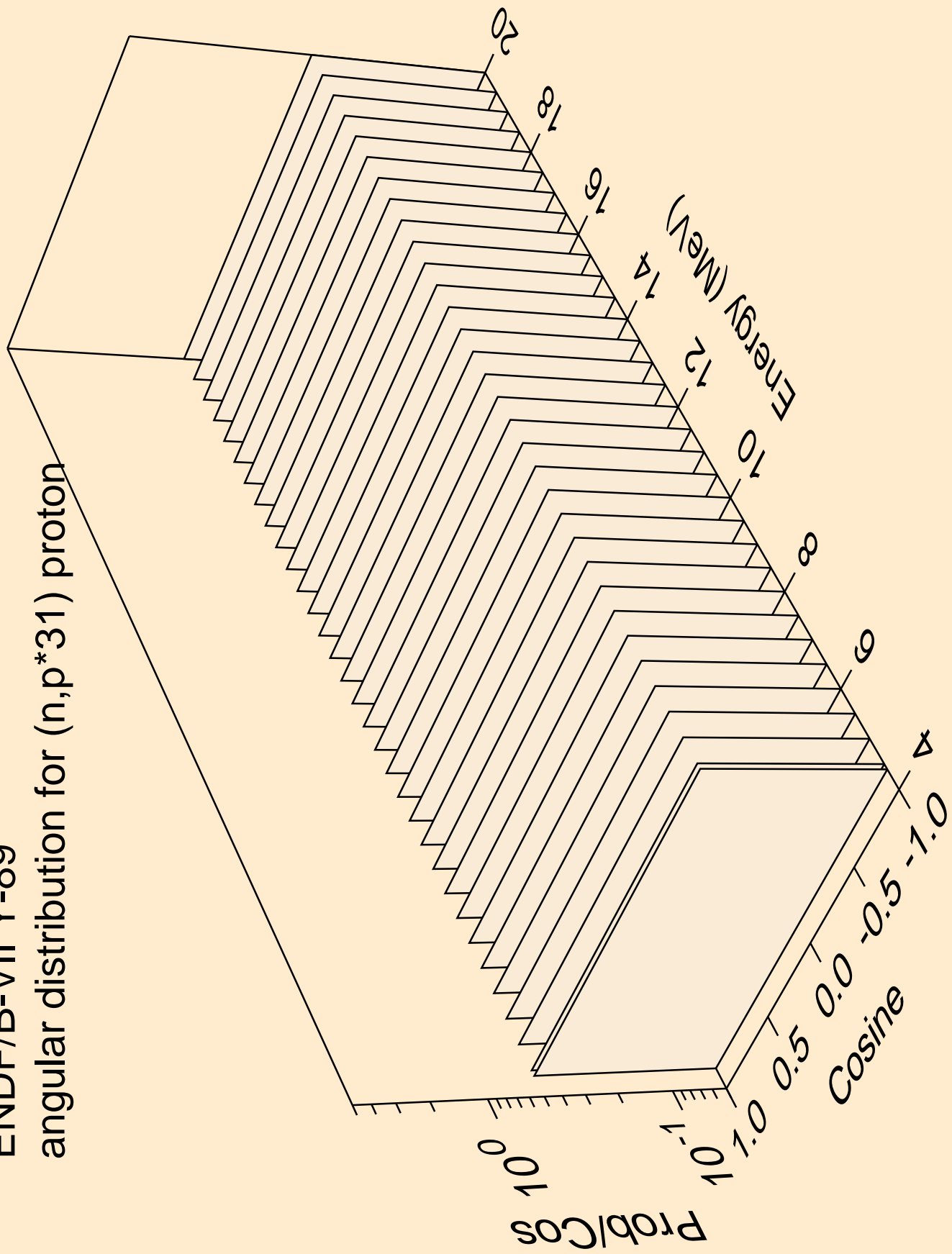
ENDF/B-VII Y-89  
angular distribution for (n,p\*29) proton



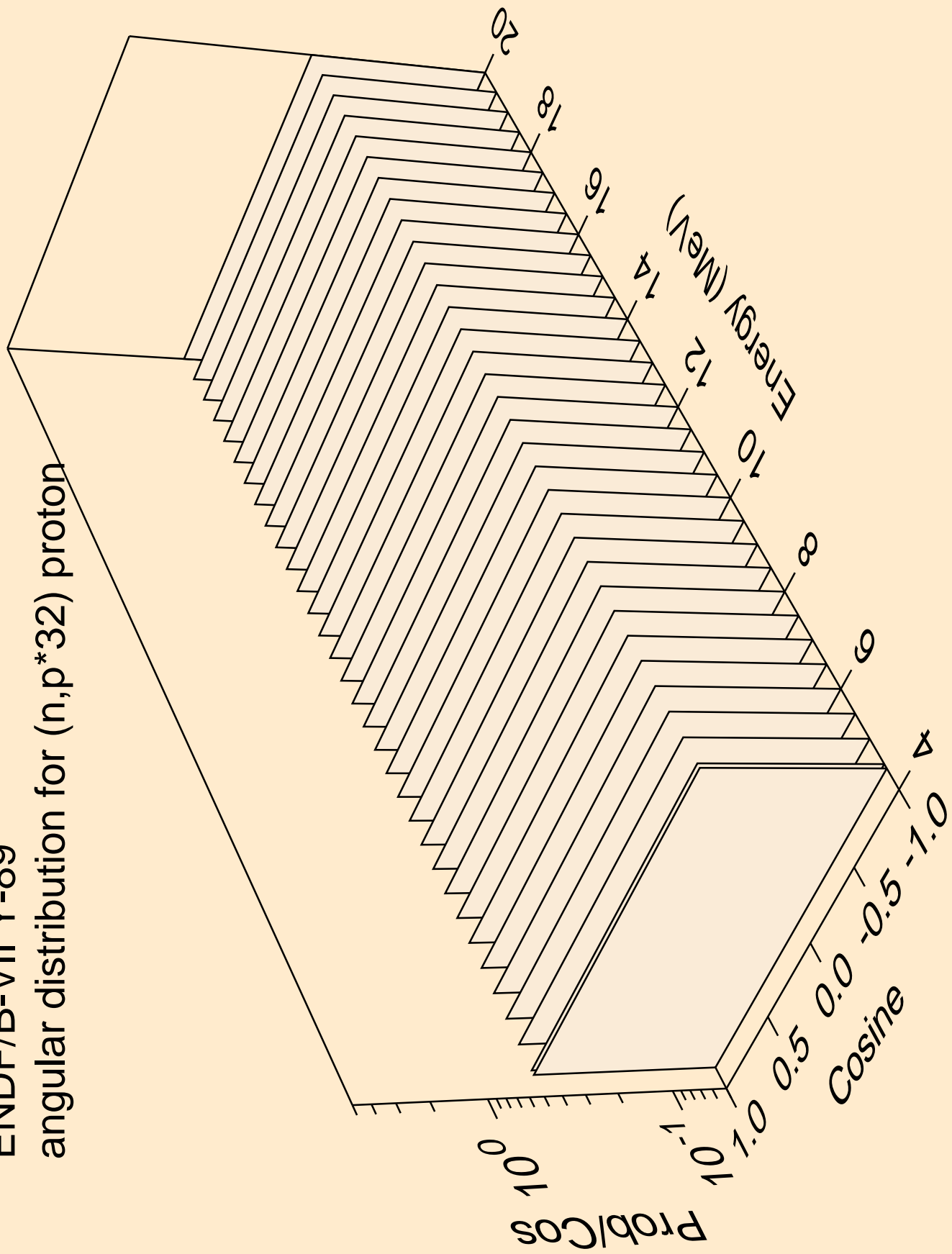
ENDF/B-VII Y-89  
angular distribution for (n,p\*30) proton



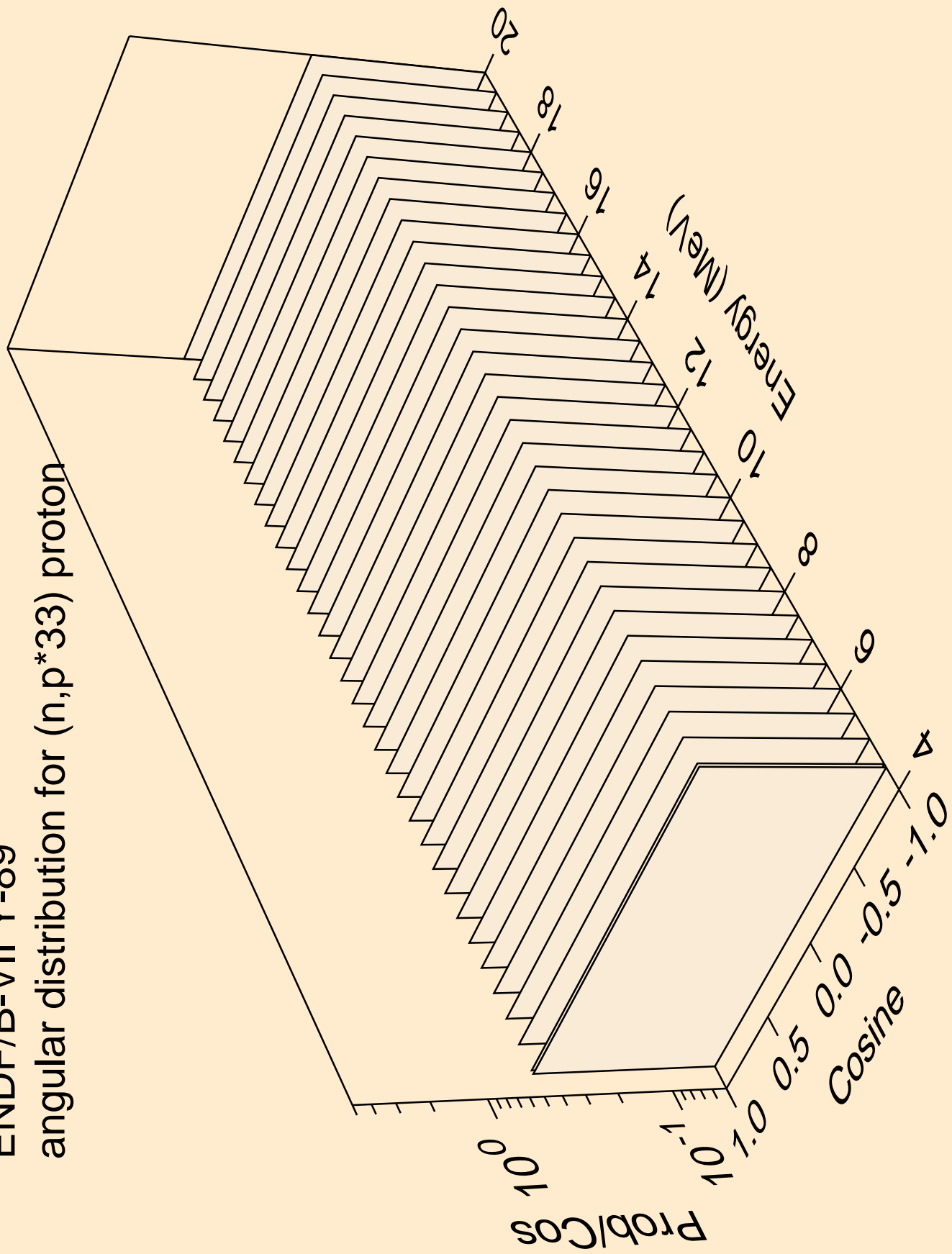
ENDF/B-VII Y-89  
angular distribution for (n,p\*31) proton



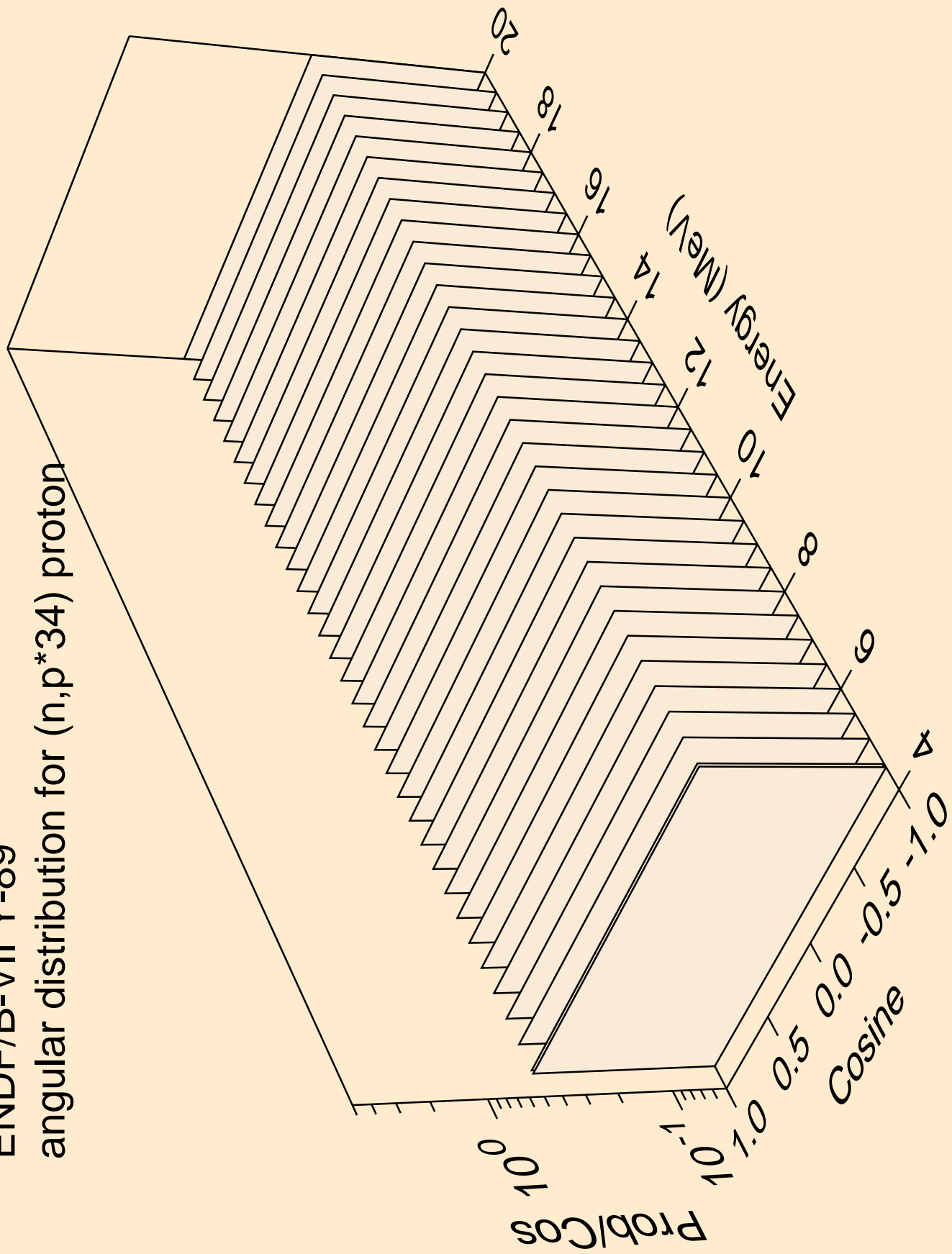
ENDF/B-VII Y-89  
angular distribution for (n,p\*32) proton



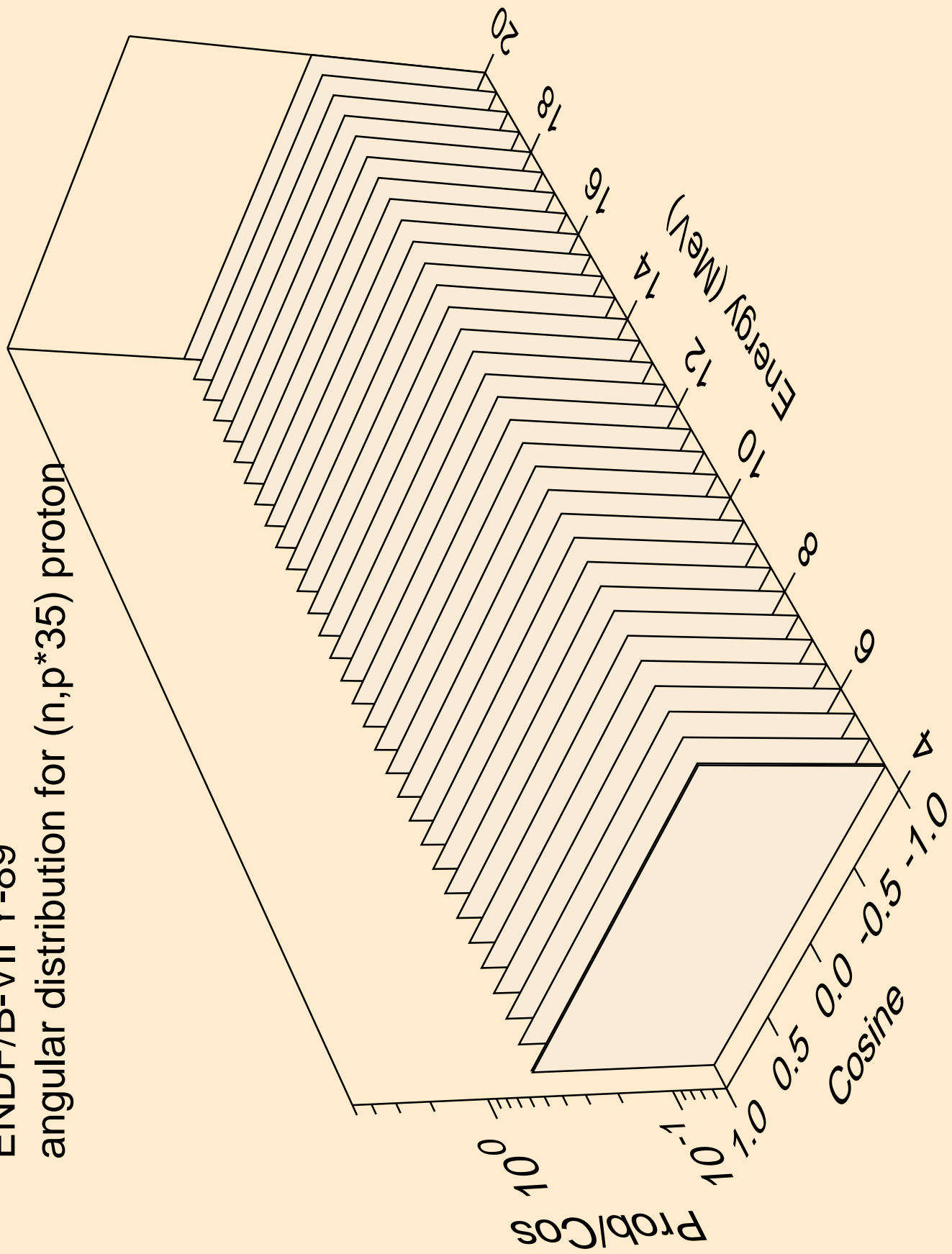
ENDF/B-VII Y-89  
angular distribution for (n,p\*33) proton



ENDF/B-VII Y-89  
angular distribution for (n,p\*34) proton

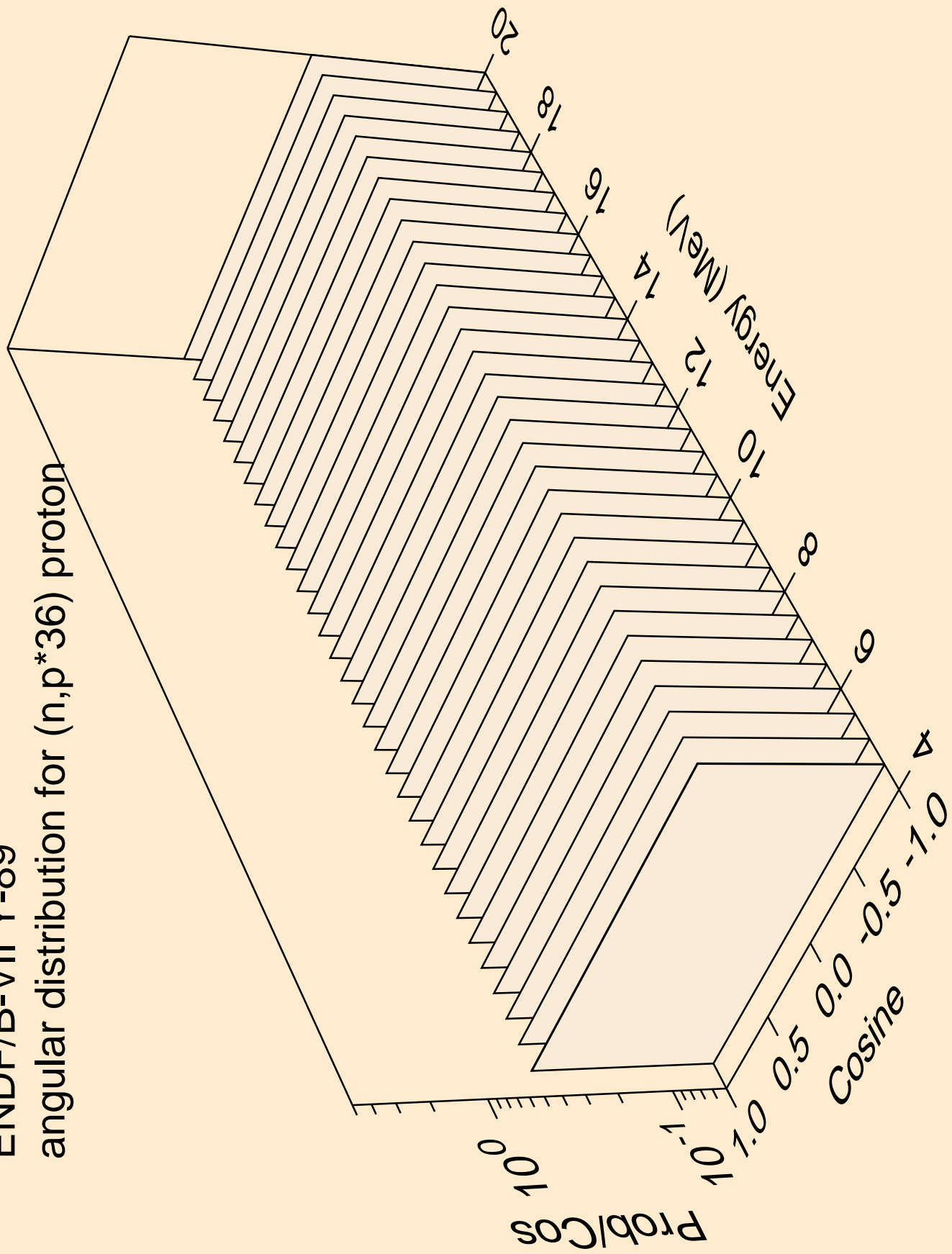


ENDF/B-VII Y-89  
angular distribution for (n,p\*35) proton

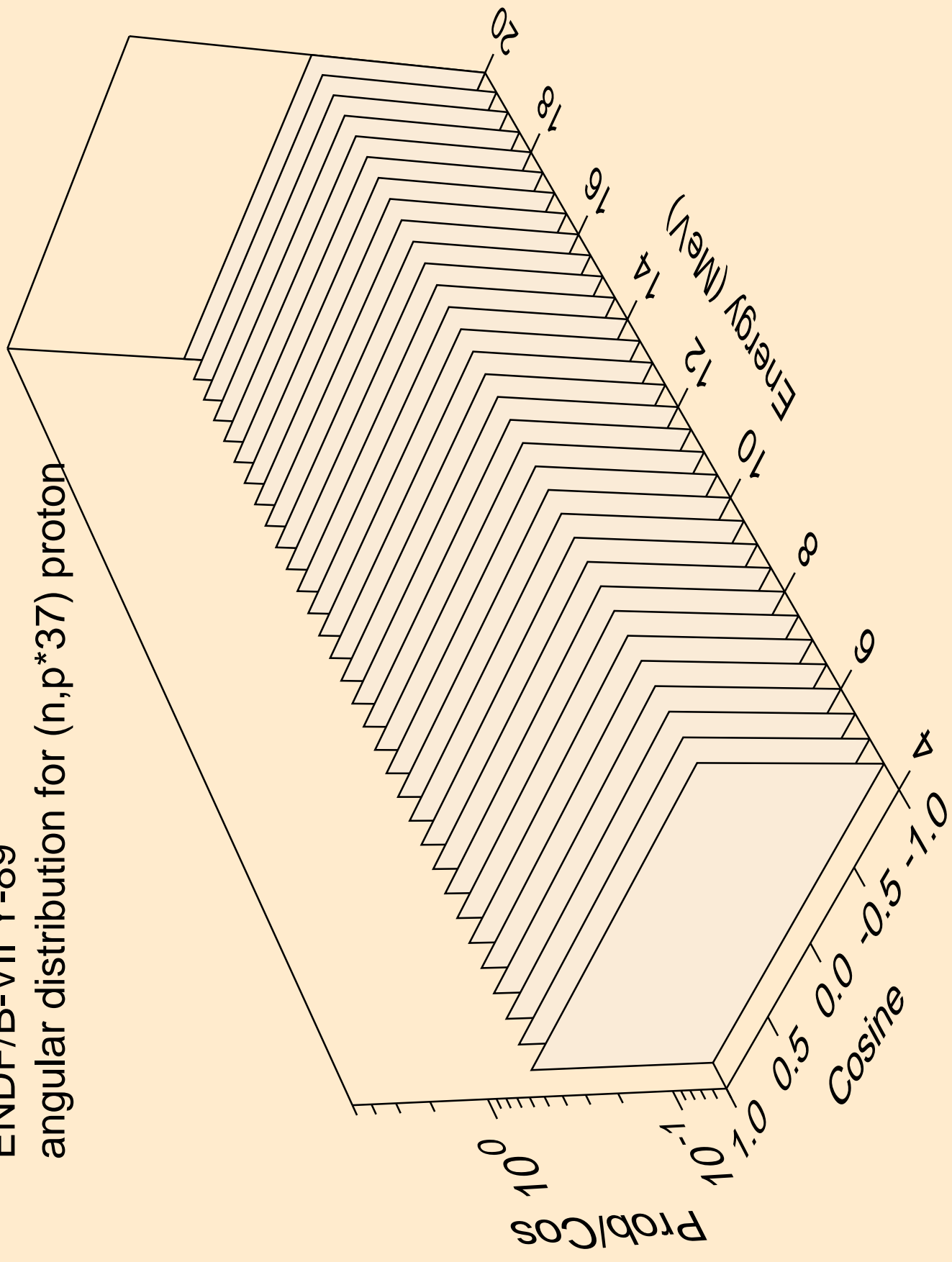




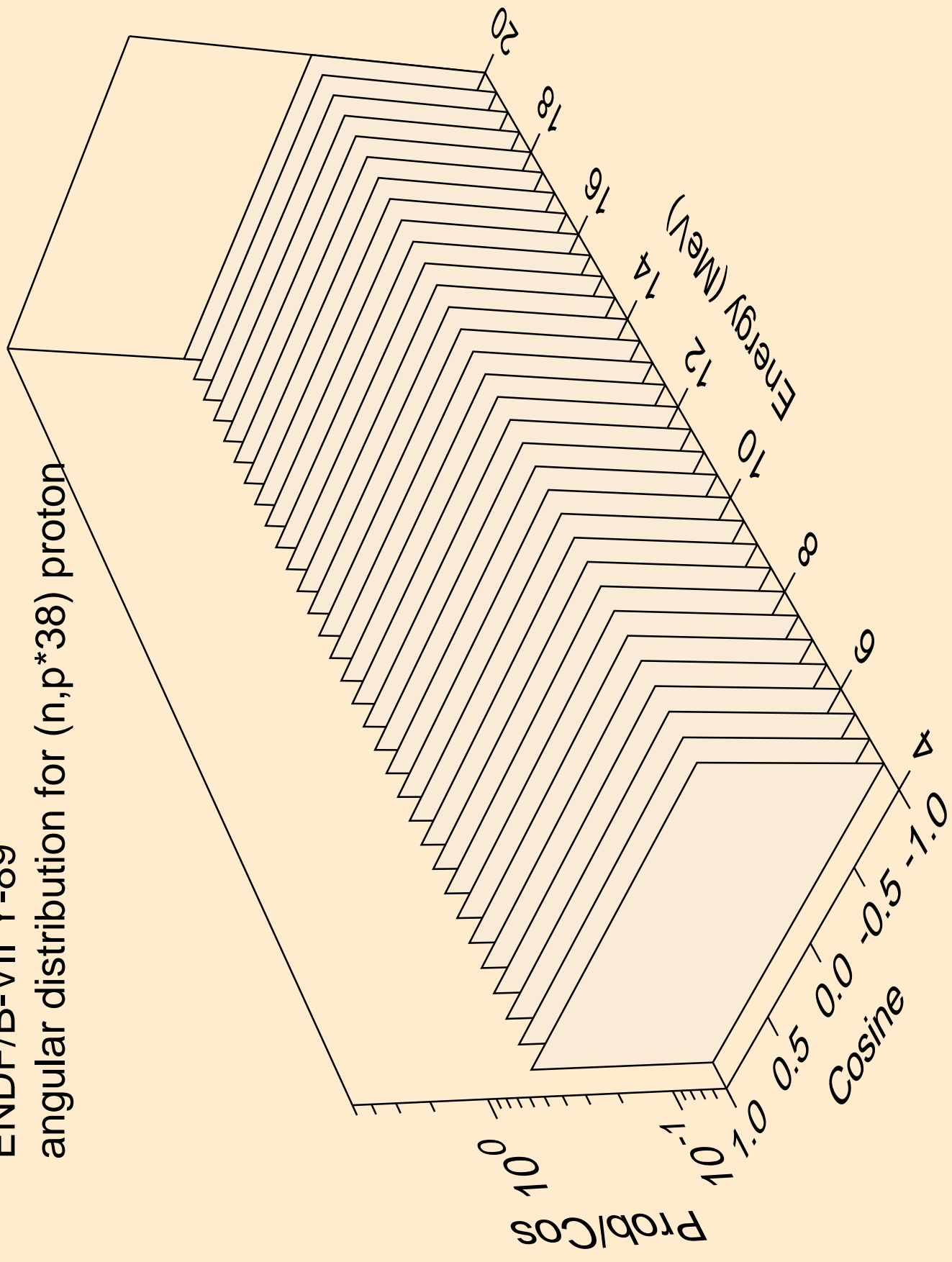
ENDF/B-VII Y-89  
angular distribution for (n,p\*36) proton



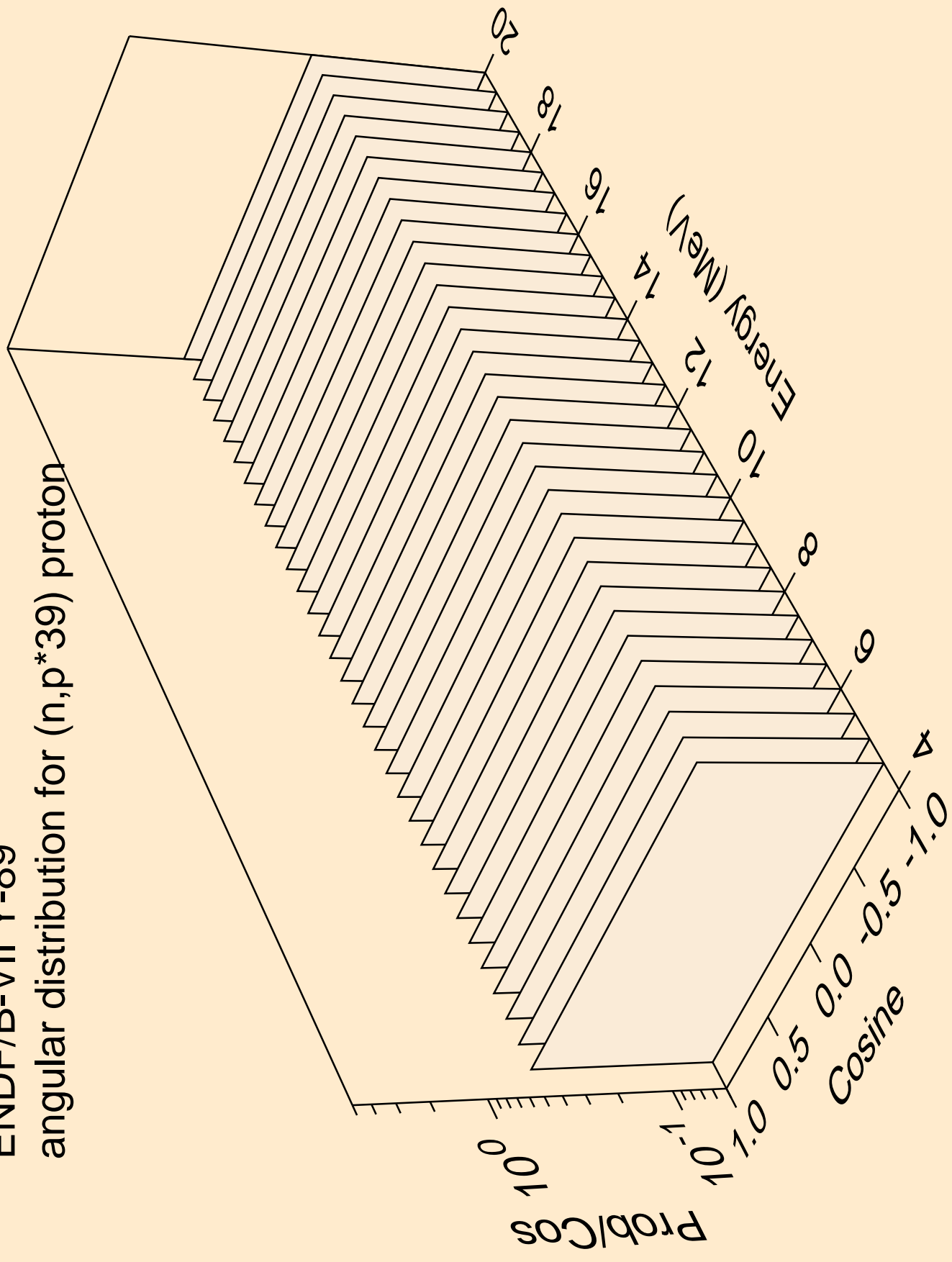
ENDF/B-VII Y-89  
angular distribution for (n,p\*37) proton



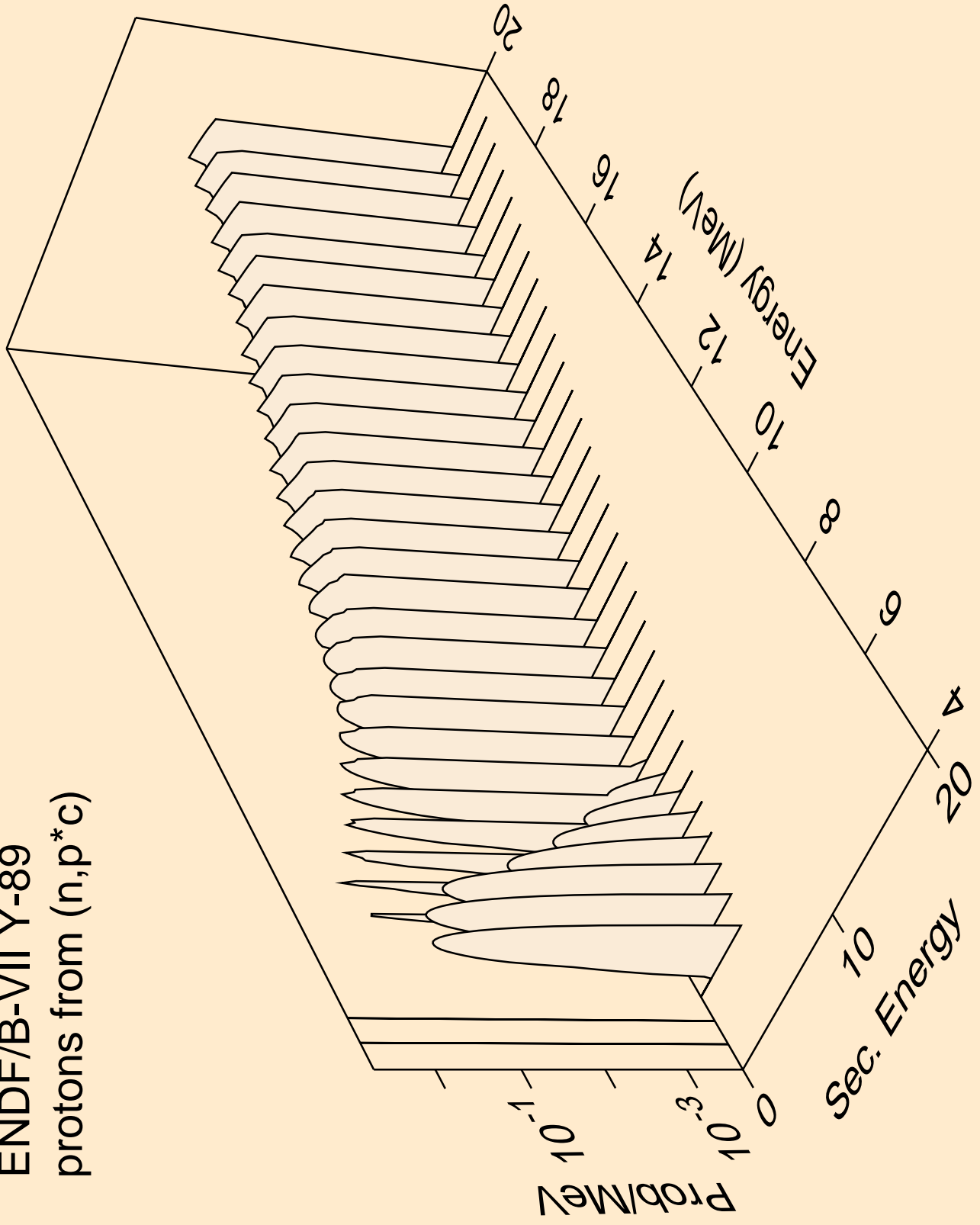
ENDF/B-VII Y-89  
angular distribution for (n,p\*38) proton



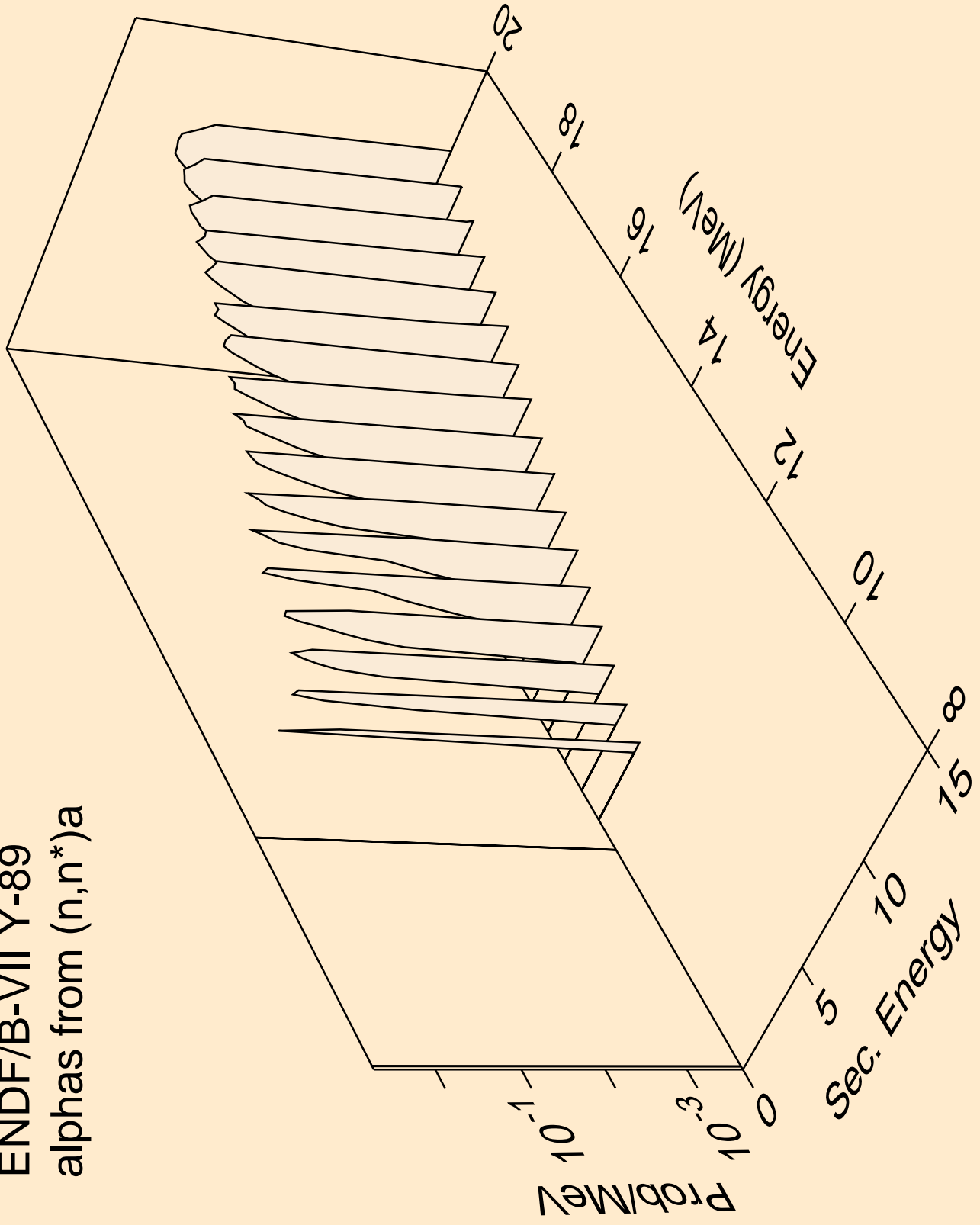
ENDF/B-VII Y-89  
angular distribution for (n,p\*39) proton



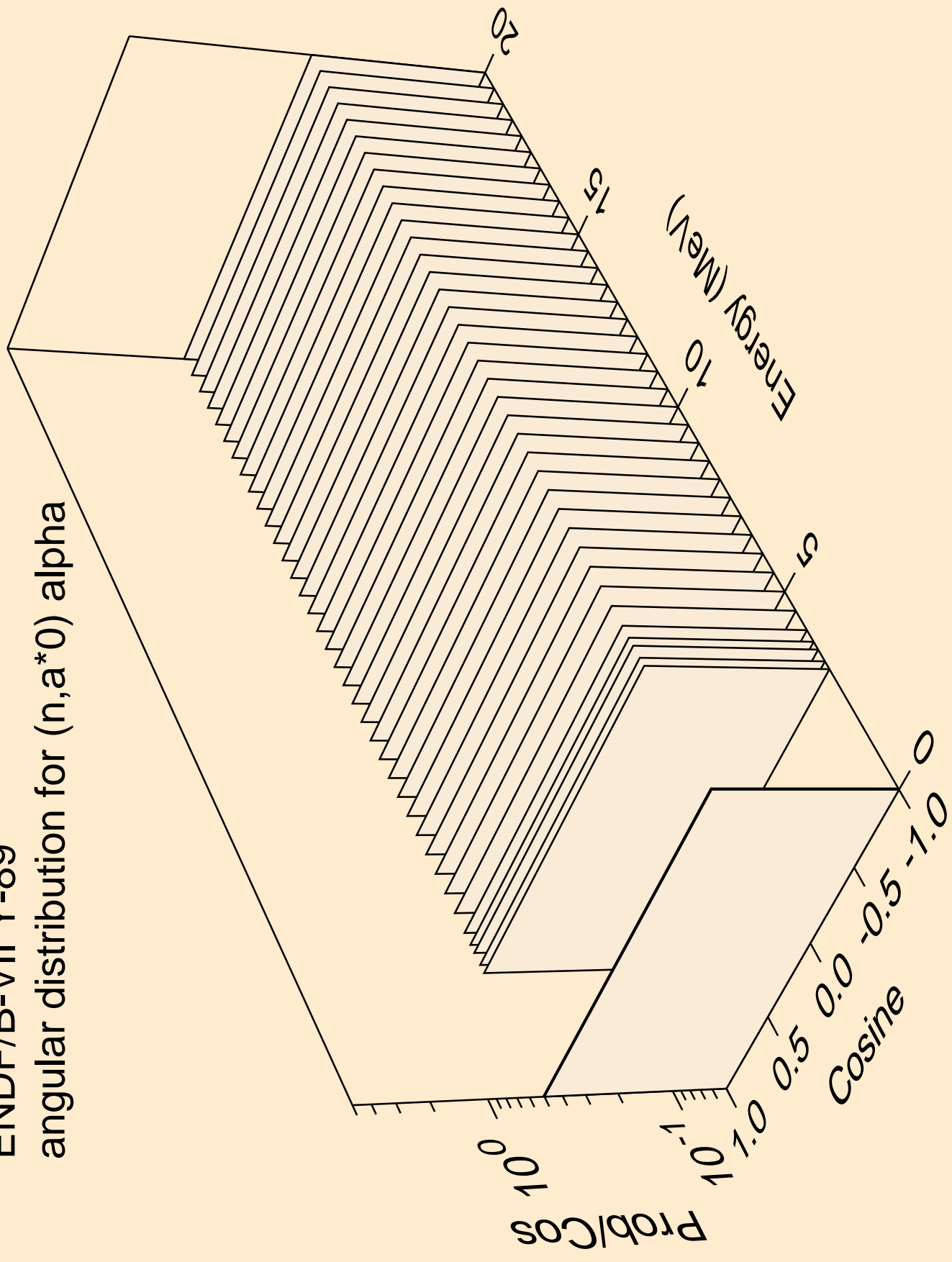
ENDF/B-VII Y-89  
protons from (n,p\*c)



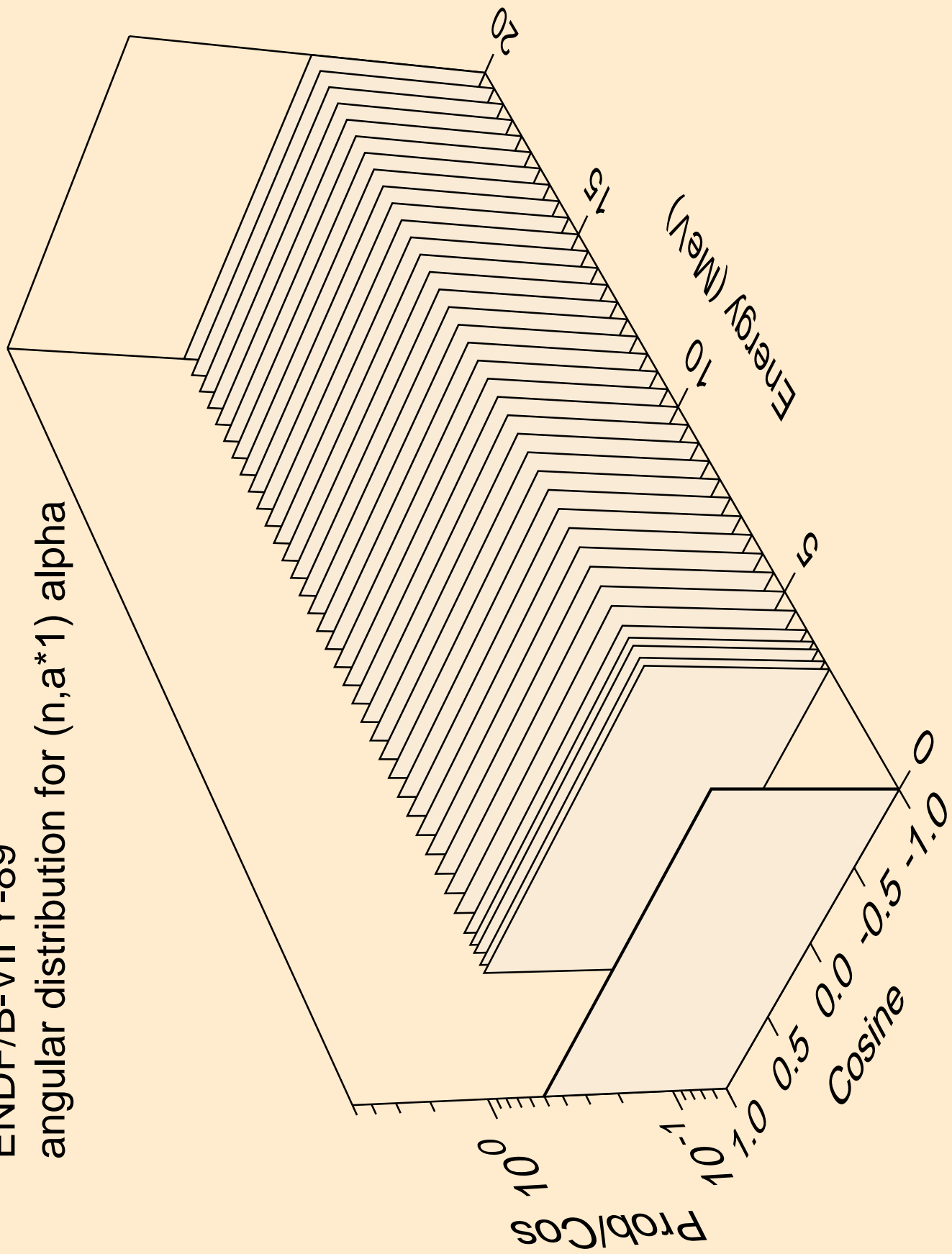
ENDF/B-VII Y-89  
alphas from (n,n\*)a



ENDF/B-VII Y-89  
angular distribution for (n,a\*0) alpha

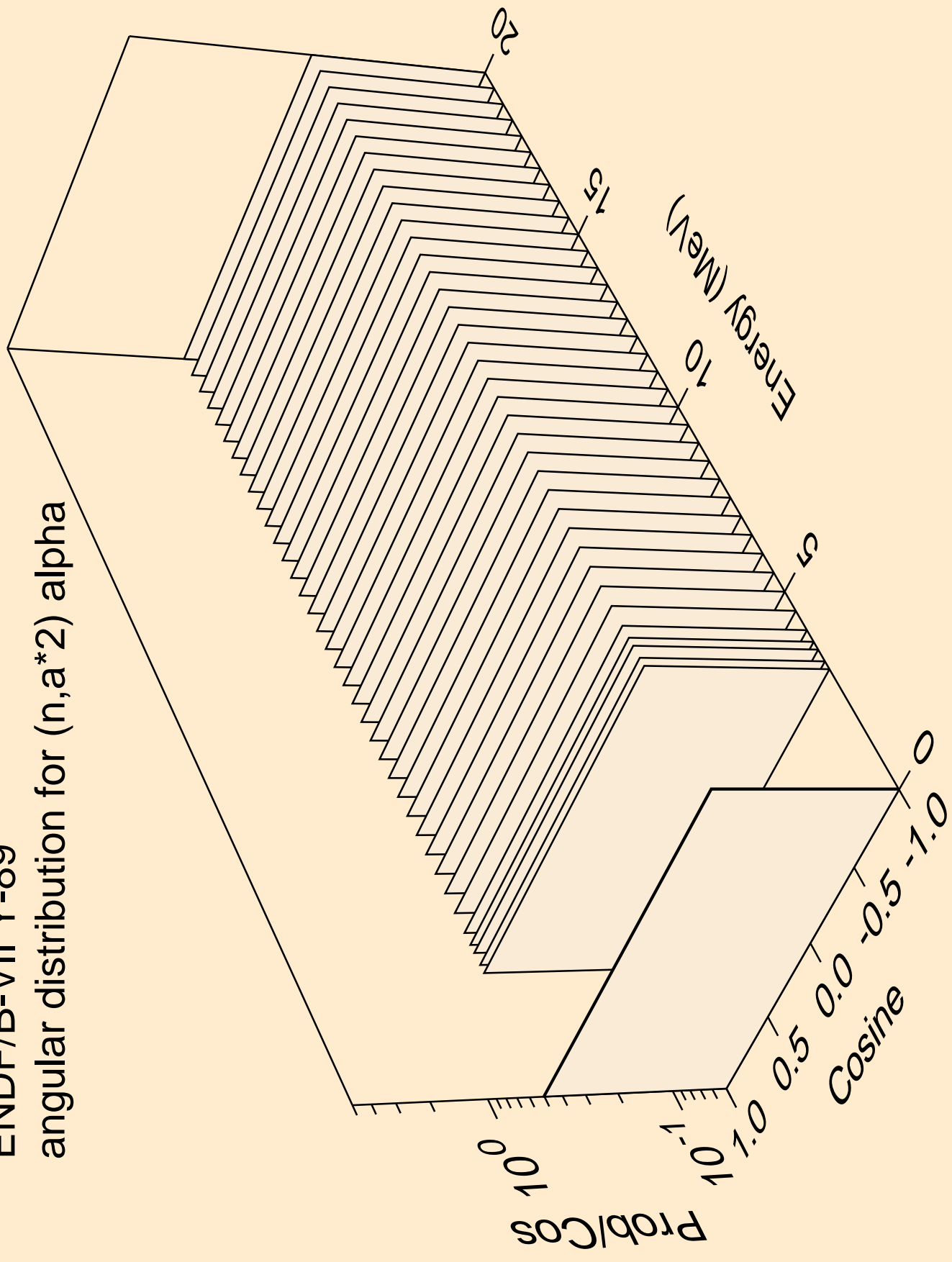


ENDF/B-VII Y-89  
angular distribution for (n,a\*1) alpha

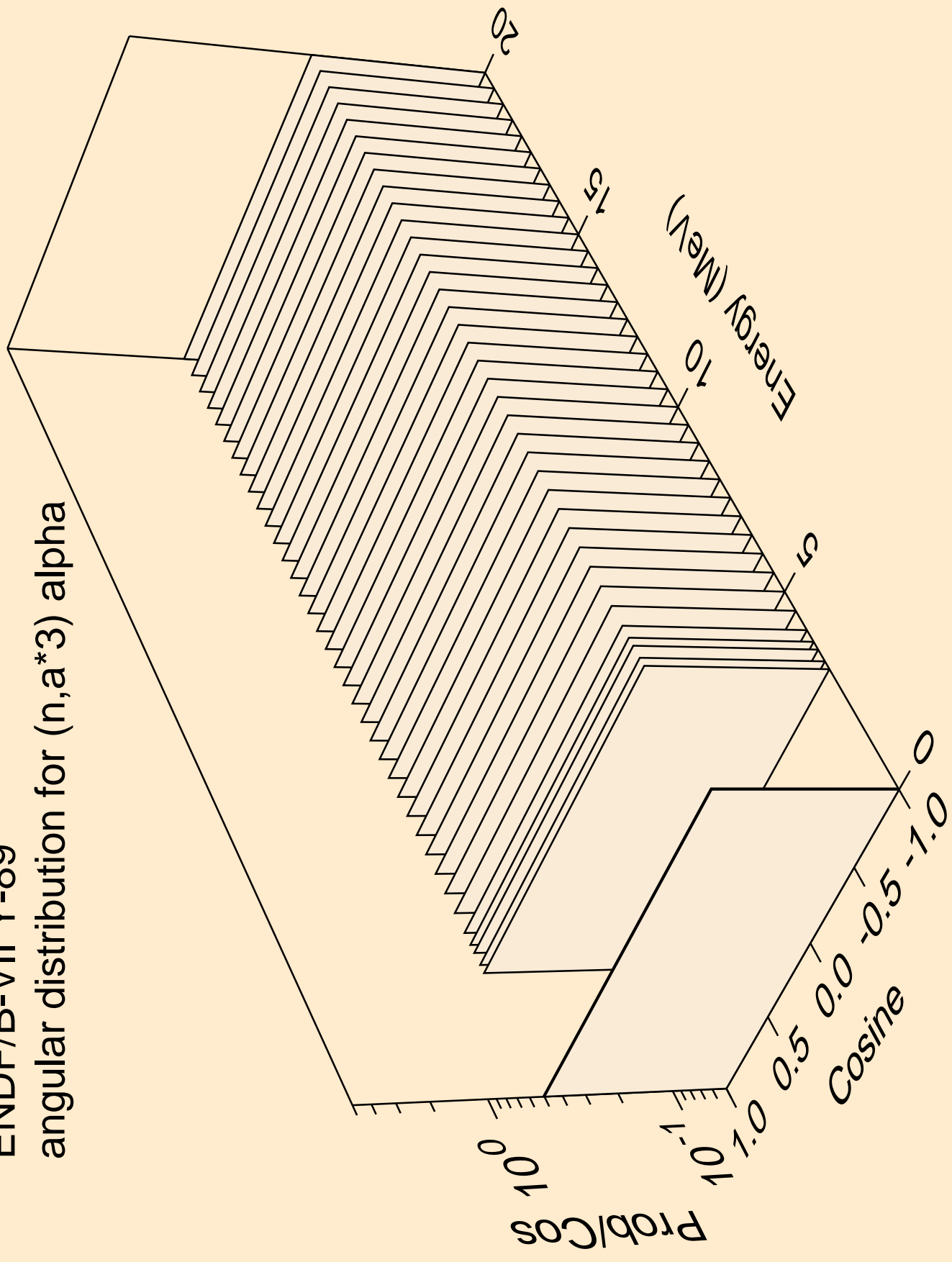




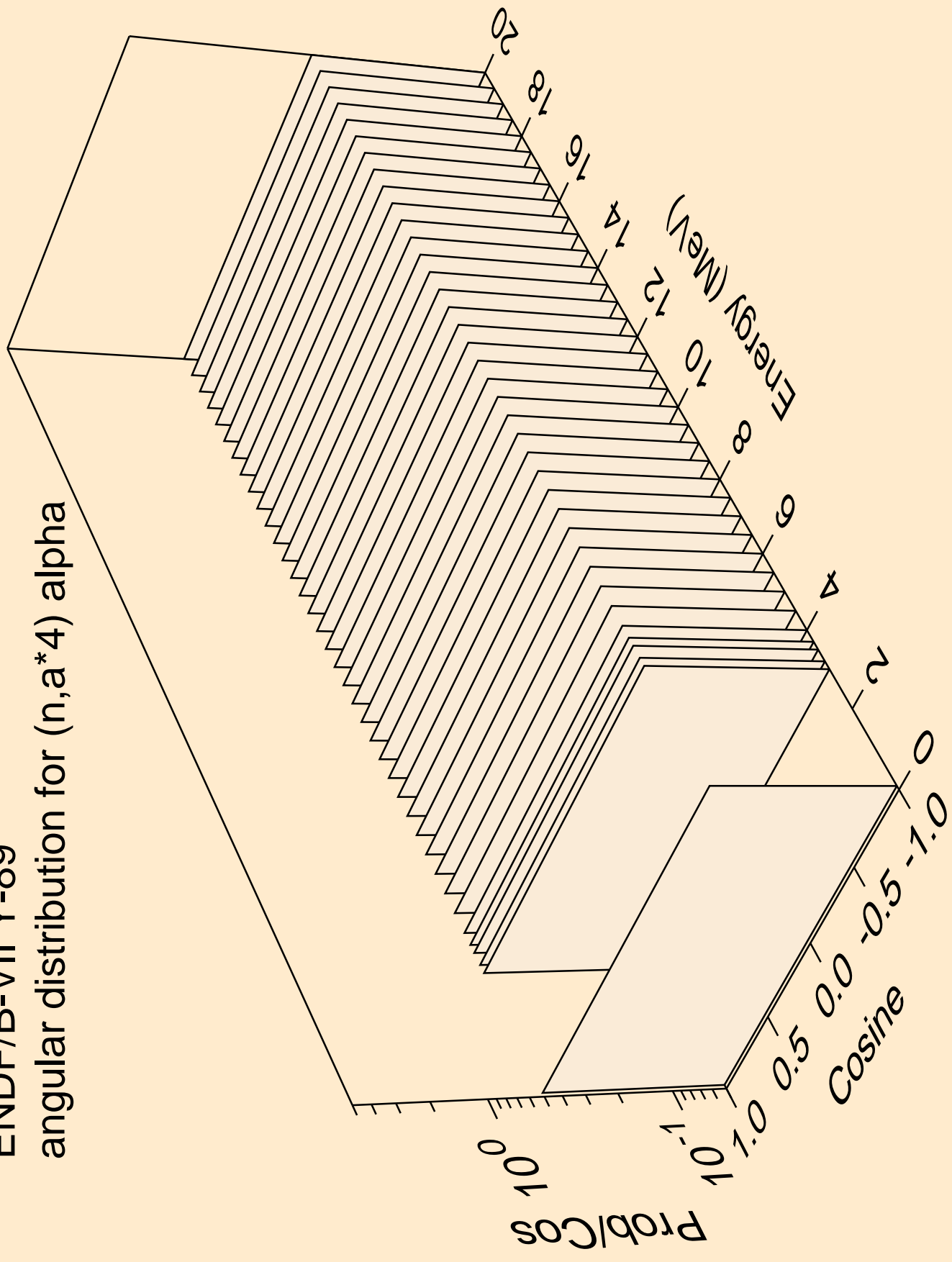
ENDF/B-VII Y-89  
angular distribution for (n,a\*2) alpha



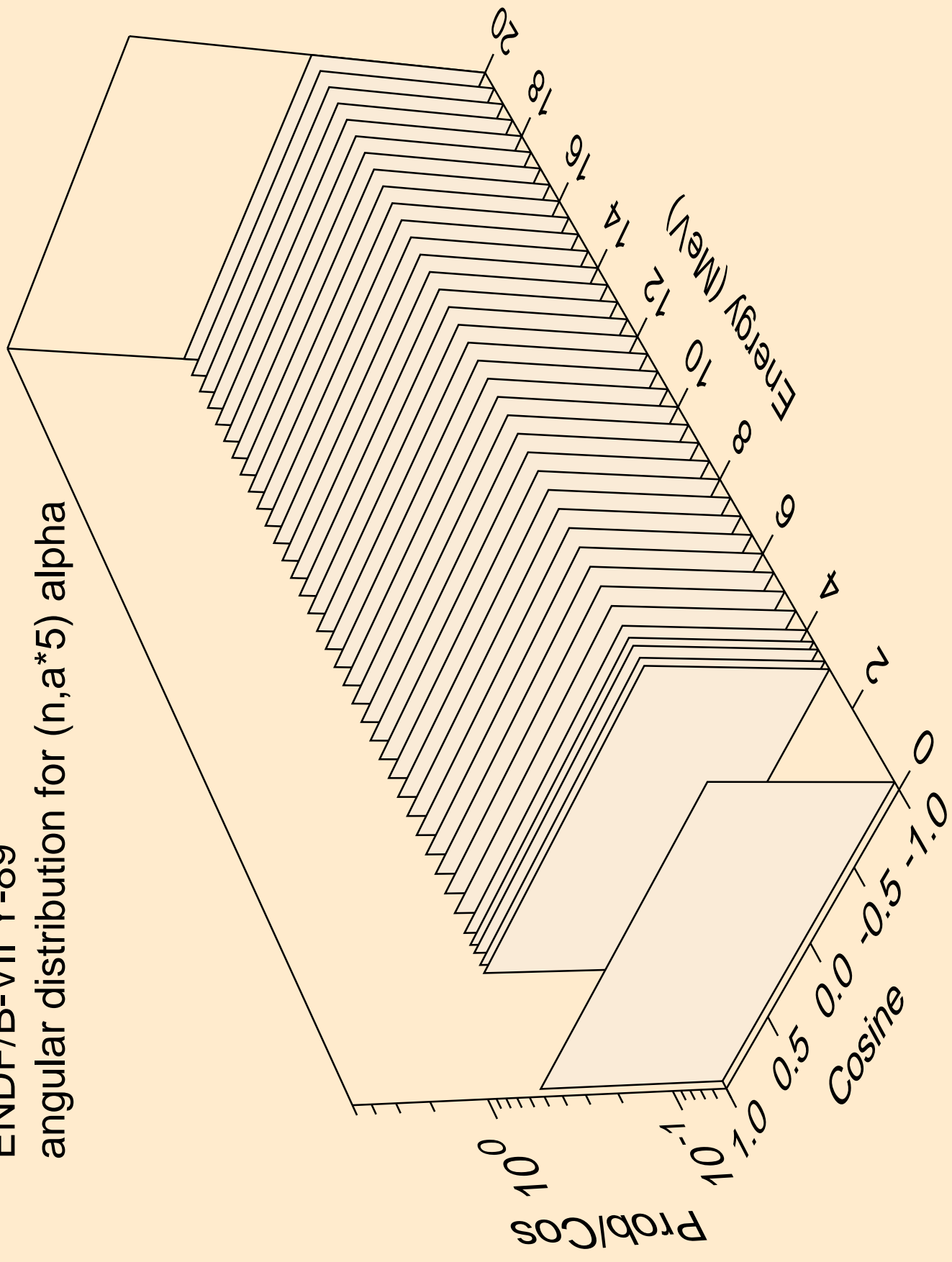
ENDF/B-VII Y-89  
angular distribution for (n,a\*3) alpha



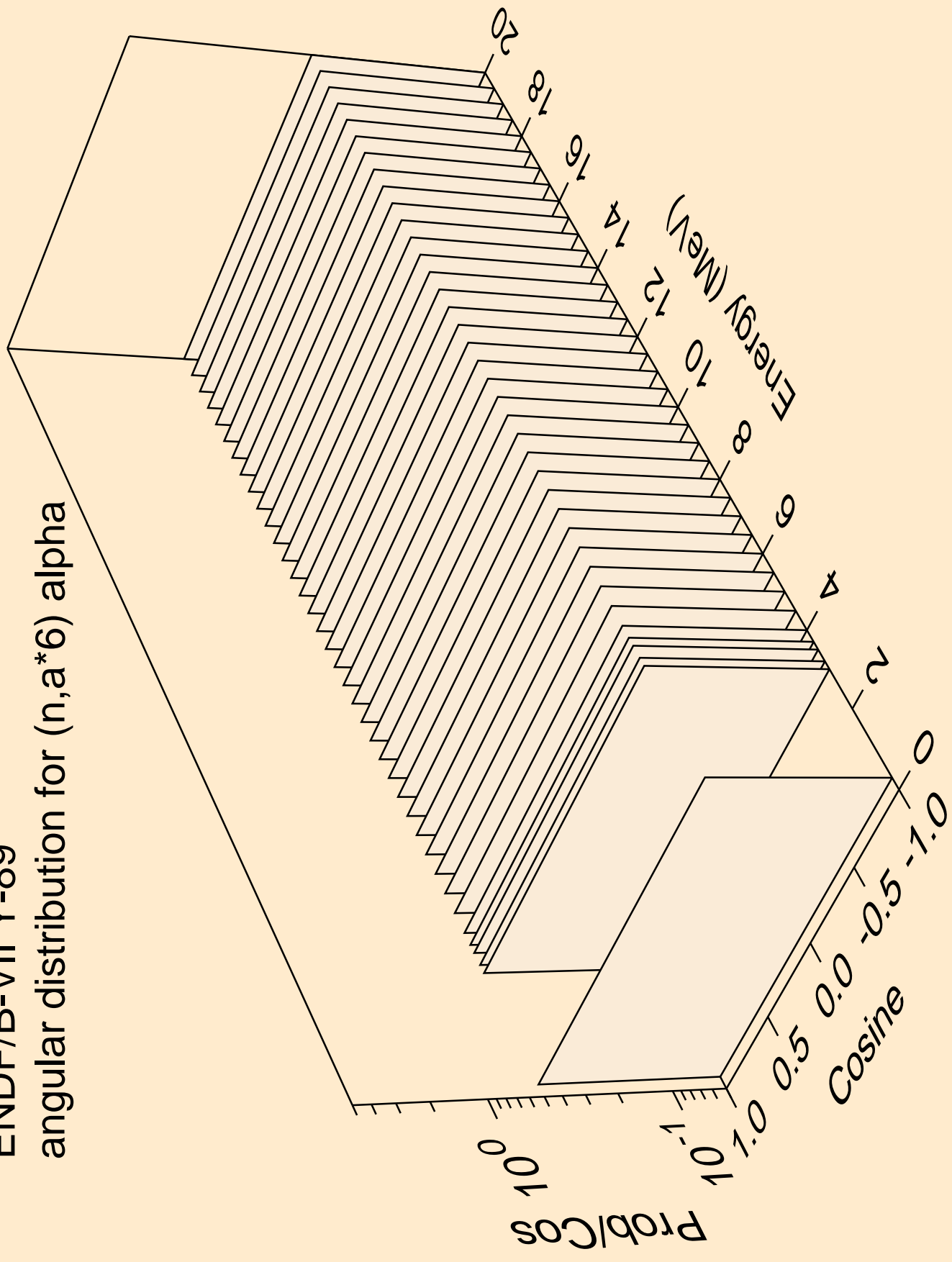
ENDF/B-VII Y-89  
angular distribution for (n,a\*4) alpha



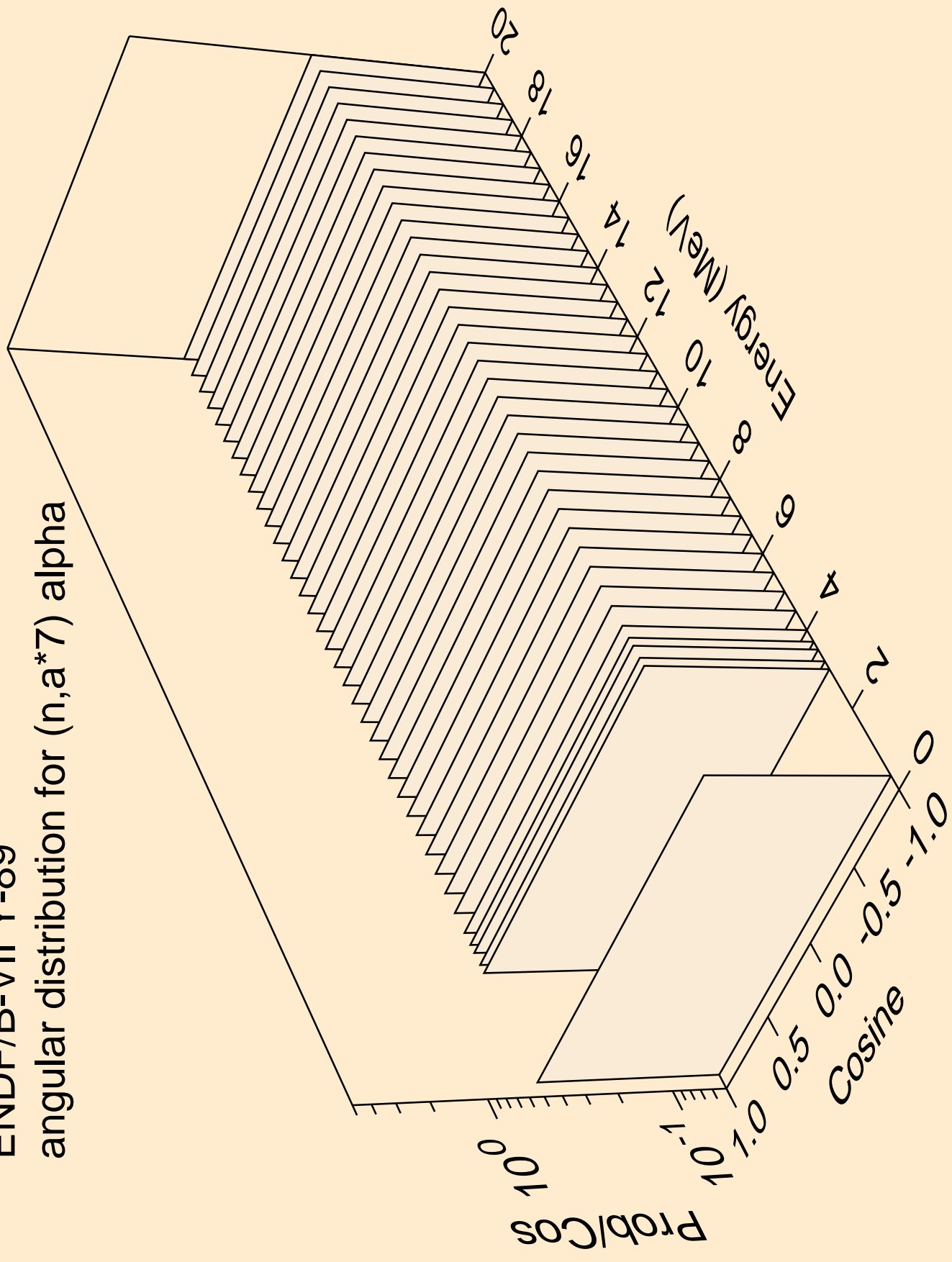
ENDF/B-VII Y-89  
angular distribution for (n,a\*5) alpha



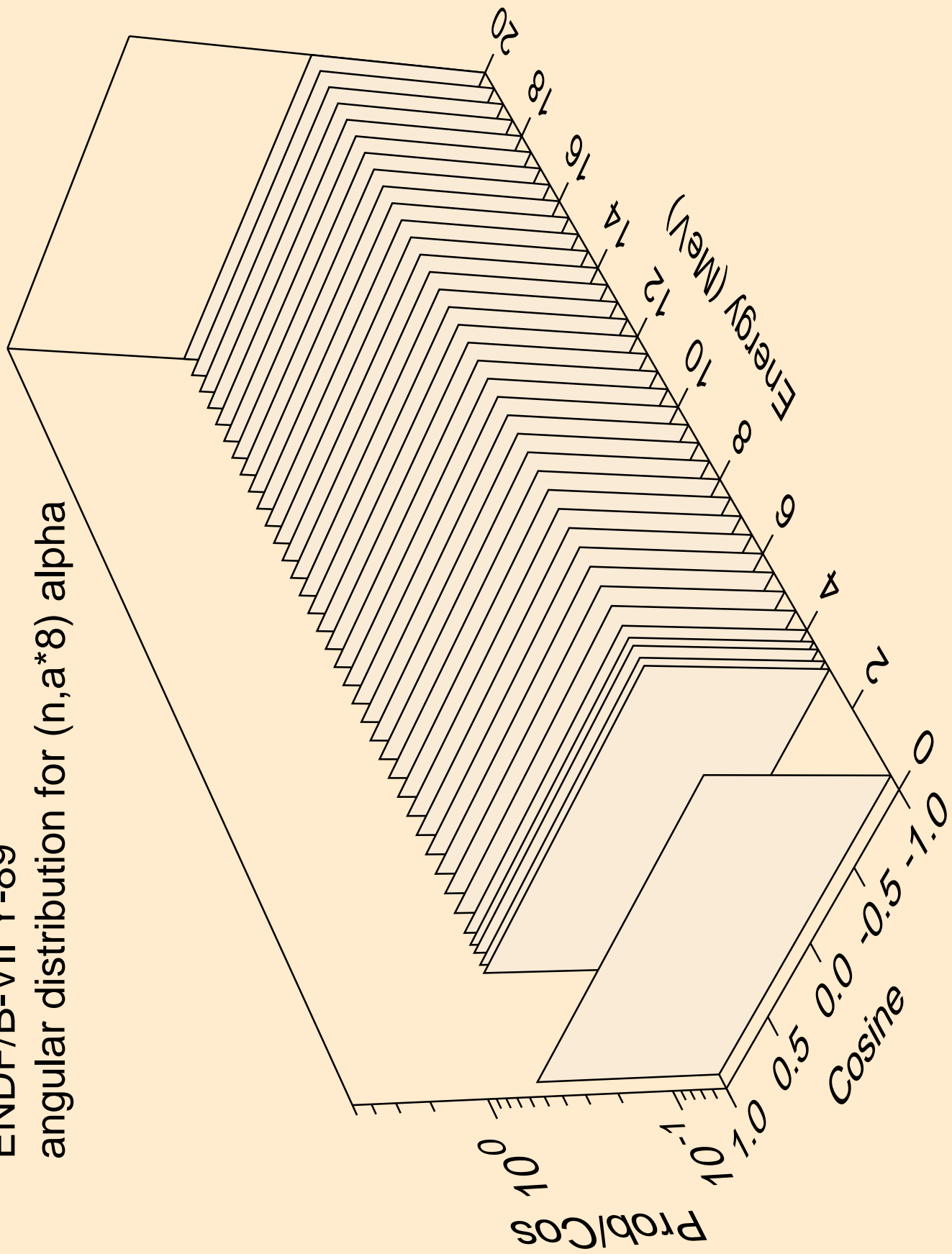
ENDF/B-VII Y-89  
angular distribution for (n,a\*6) alpha



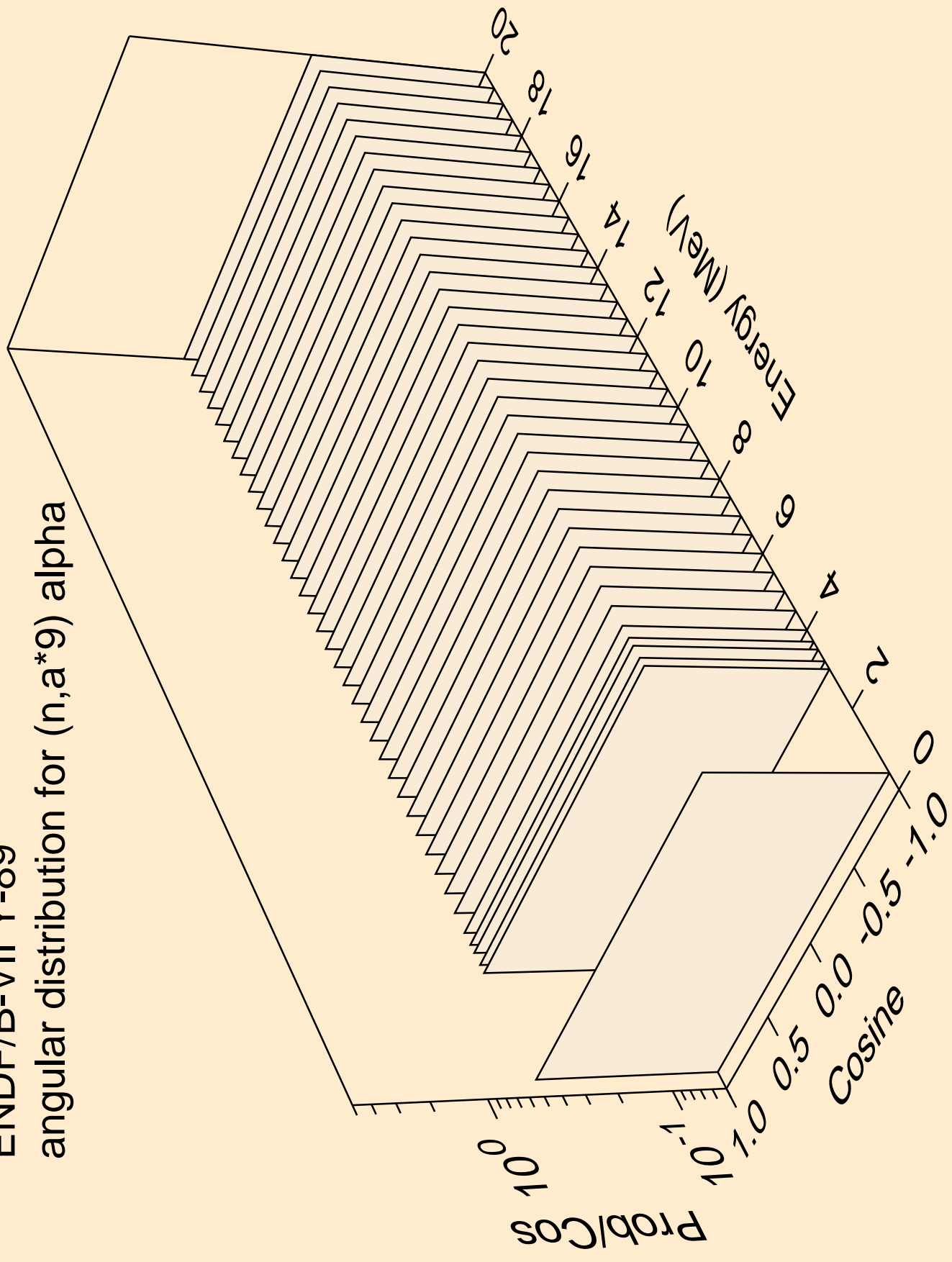
ENDF/B-VII Y-89  
angular distribution for (n,a\*7) alpha



ENDF/B-VII Y-89  
angular distribution for (n,a\*8) alpha

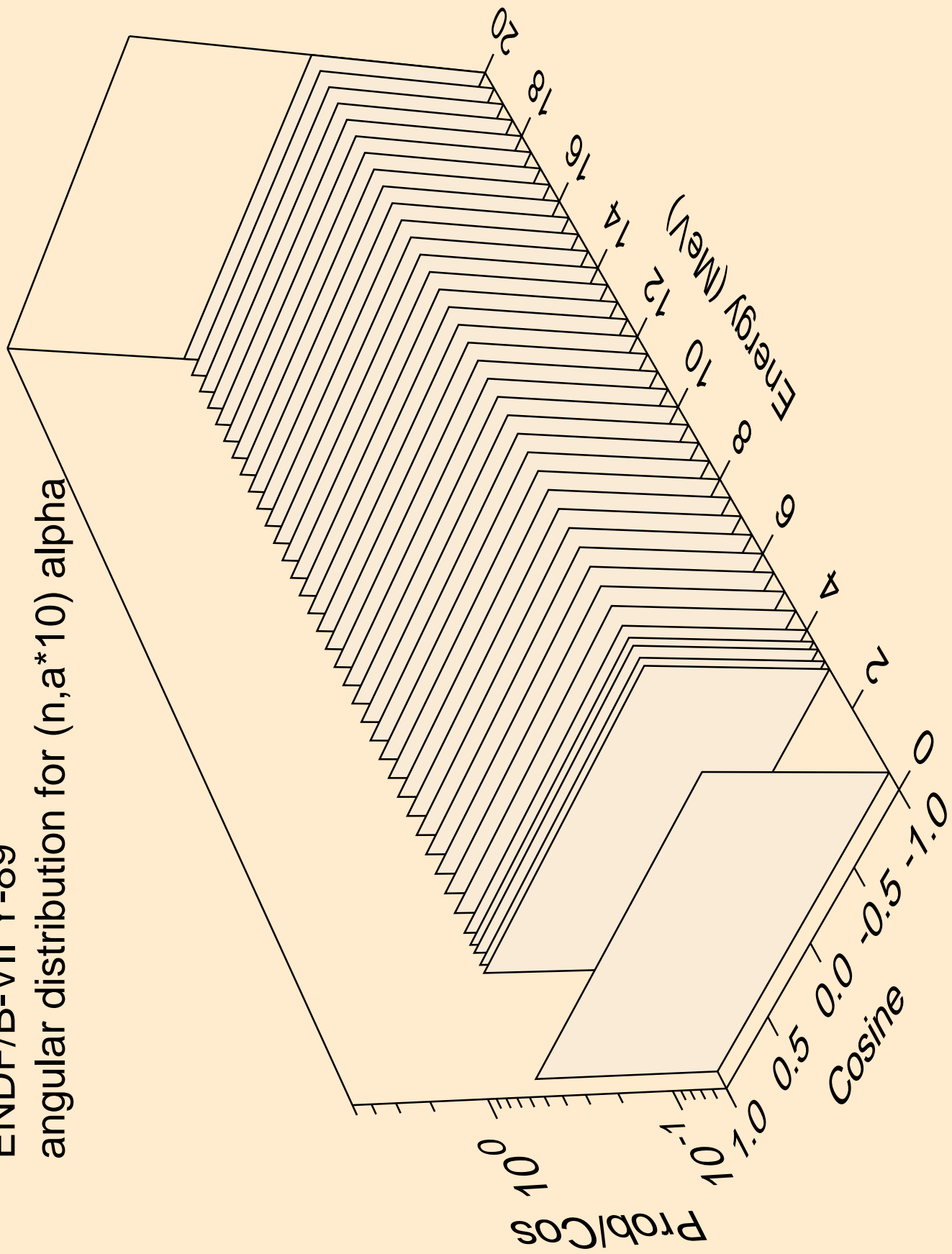


ENDF/B-VII Y-89  
angular distribution for (n,a\*9) alpha

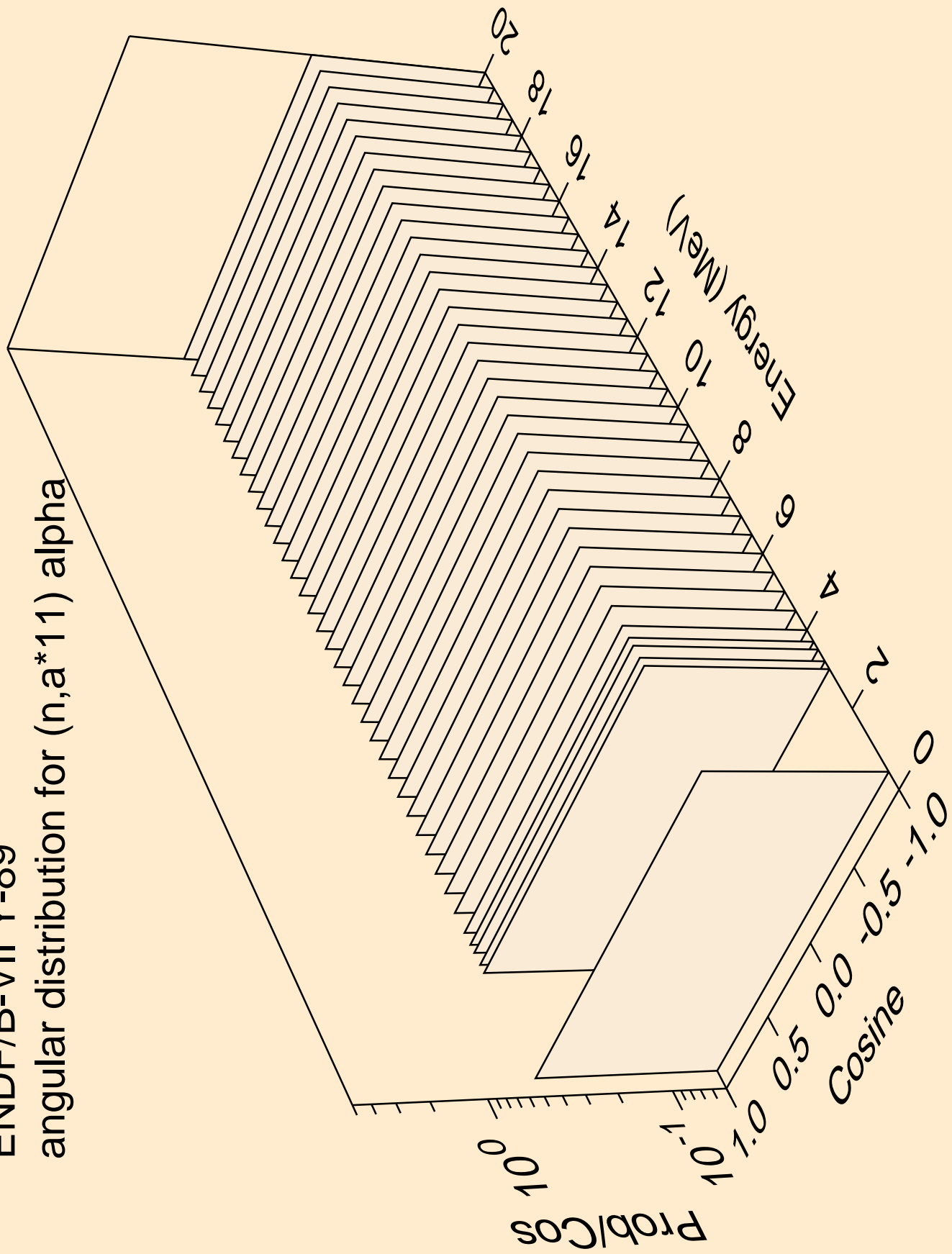




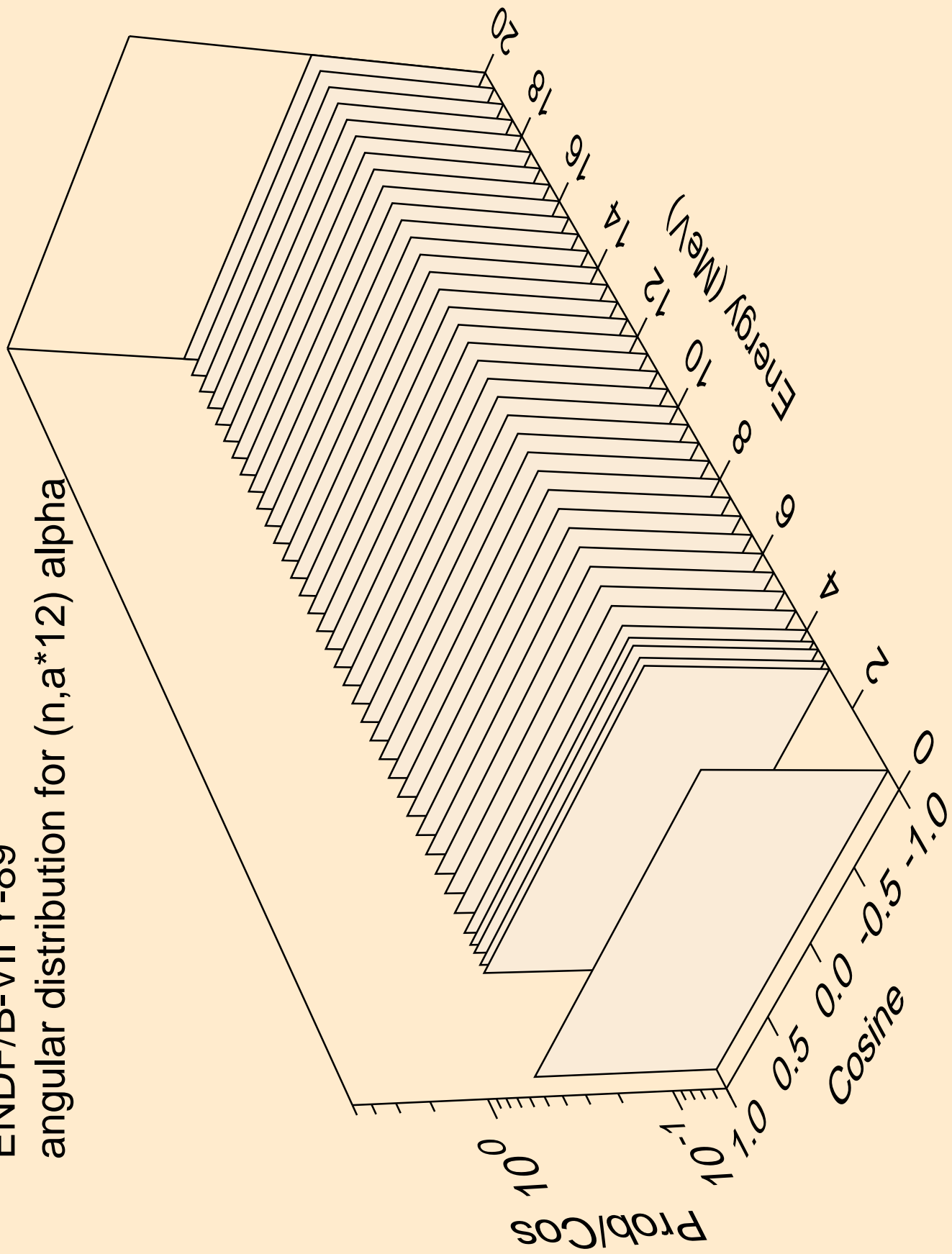
ENDF/B-VII Y-89  
angular distribution for (n,a\*10) alpha



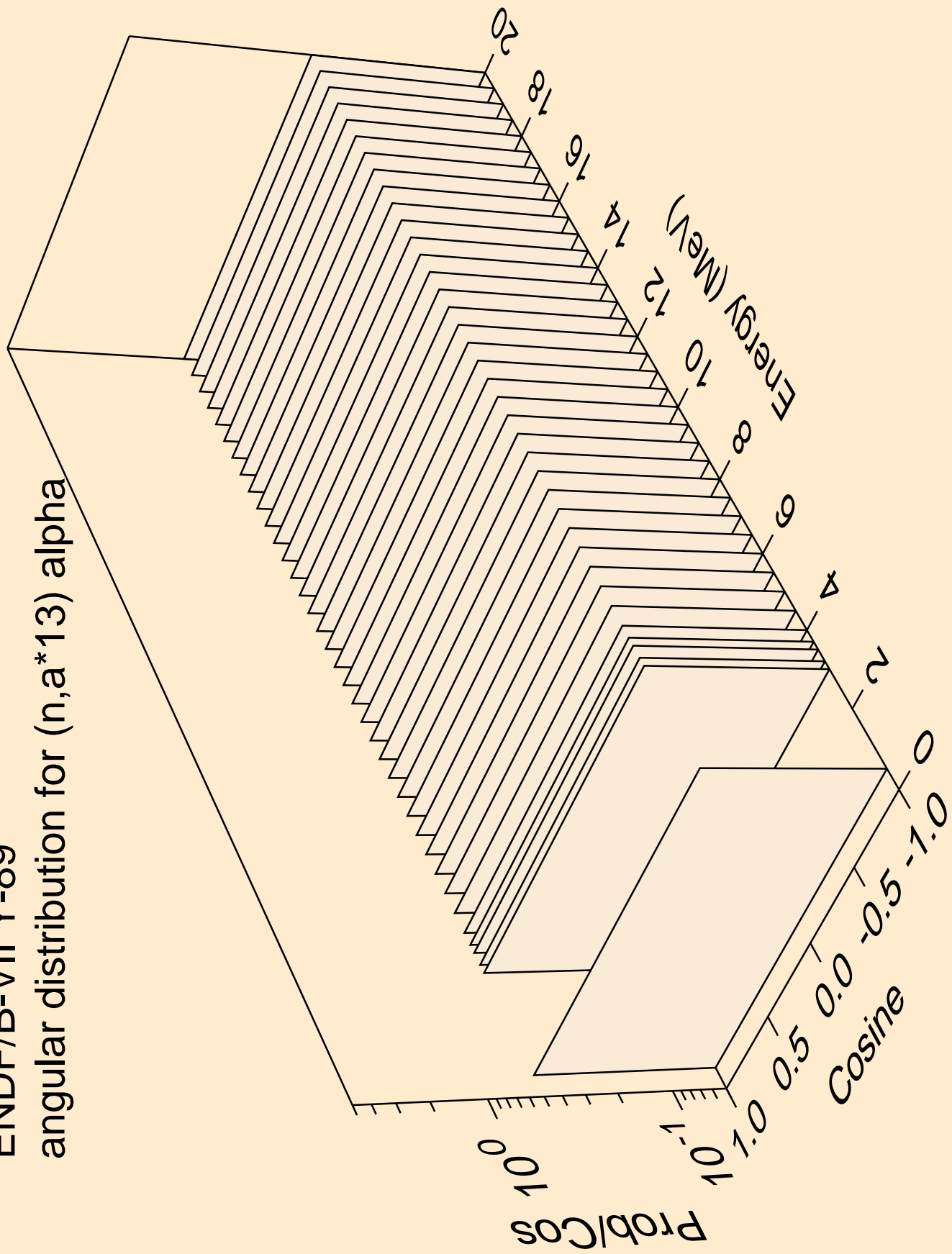
ENDF/B-VII Y-89  
angular distribution for (n,a\*11) alpha



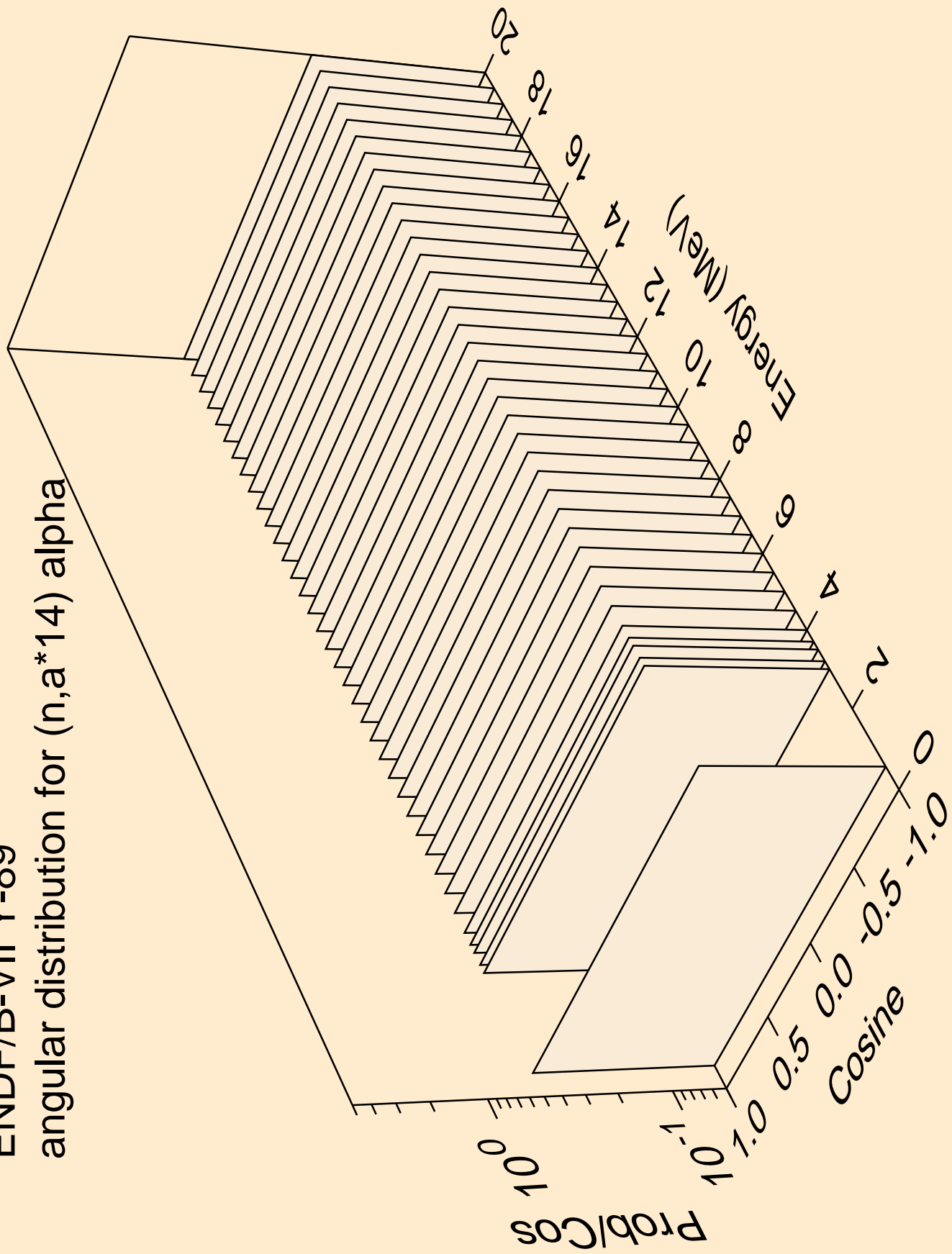
ENDF/B-VII Y-89  
angular distribution for (n,a\*12) alpha



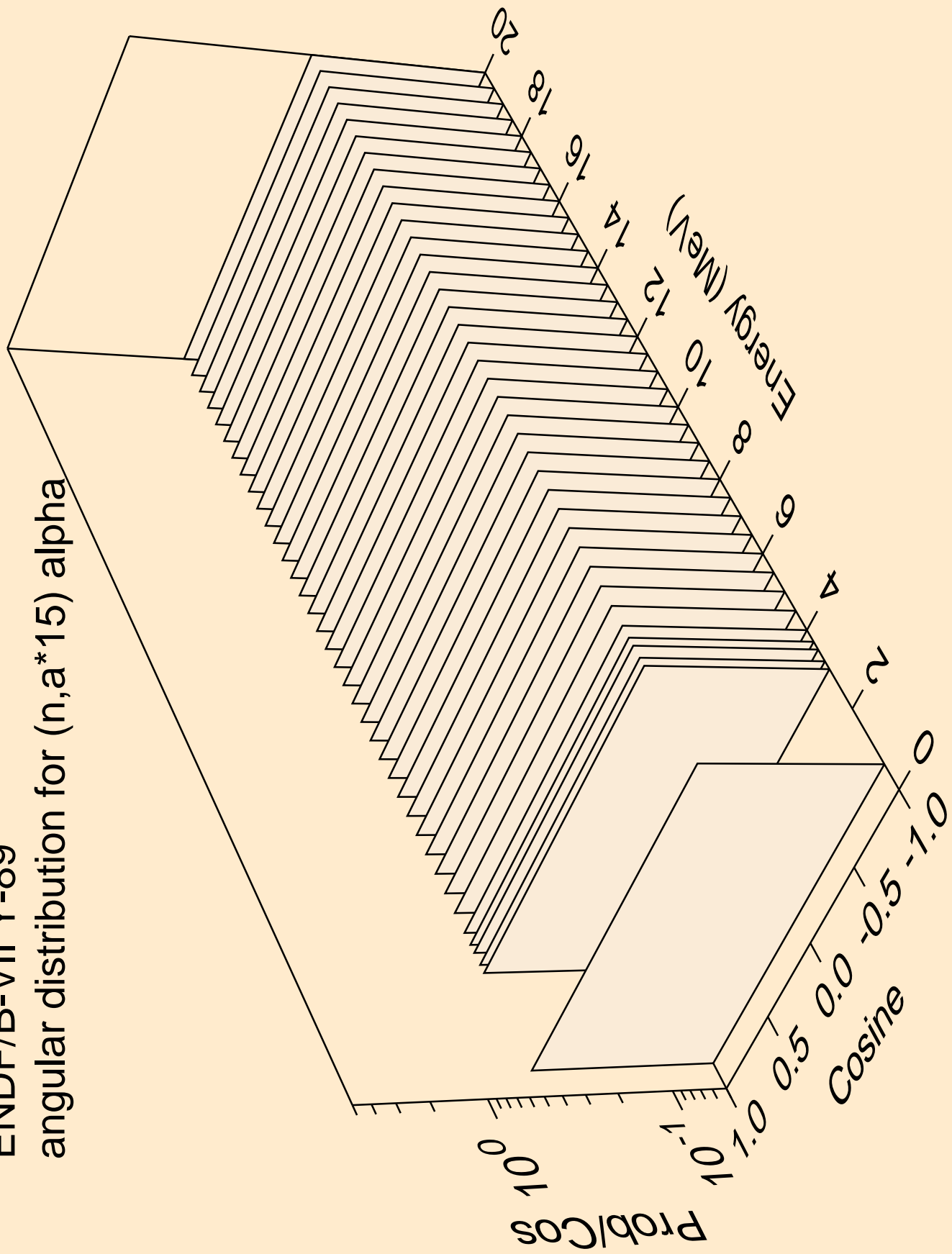
ENDF/B-VII Y-89  
angular distribution for (n,a\*13) alpha



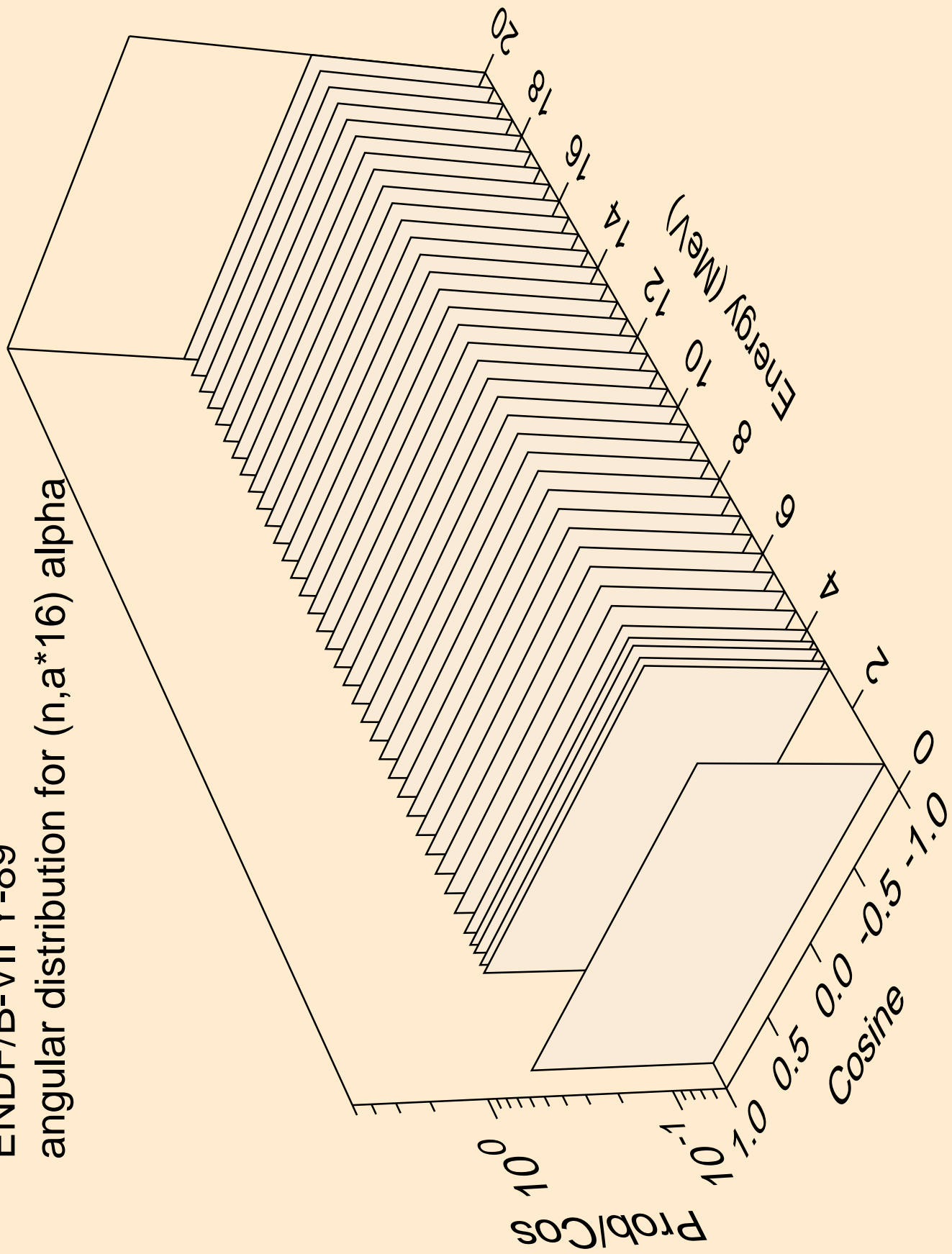
ENDF/B-VII Y-89  
angular distribution for (n,a\*14) alpha



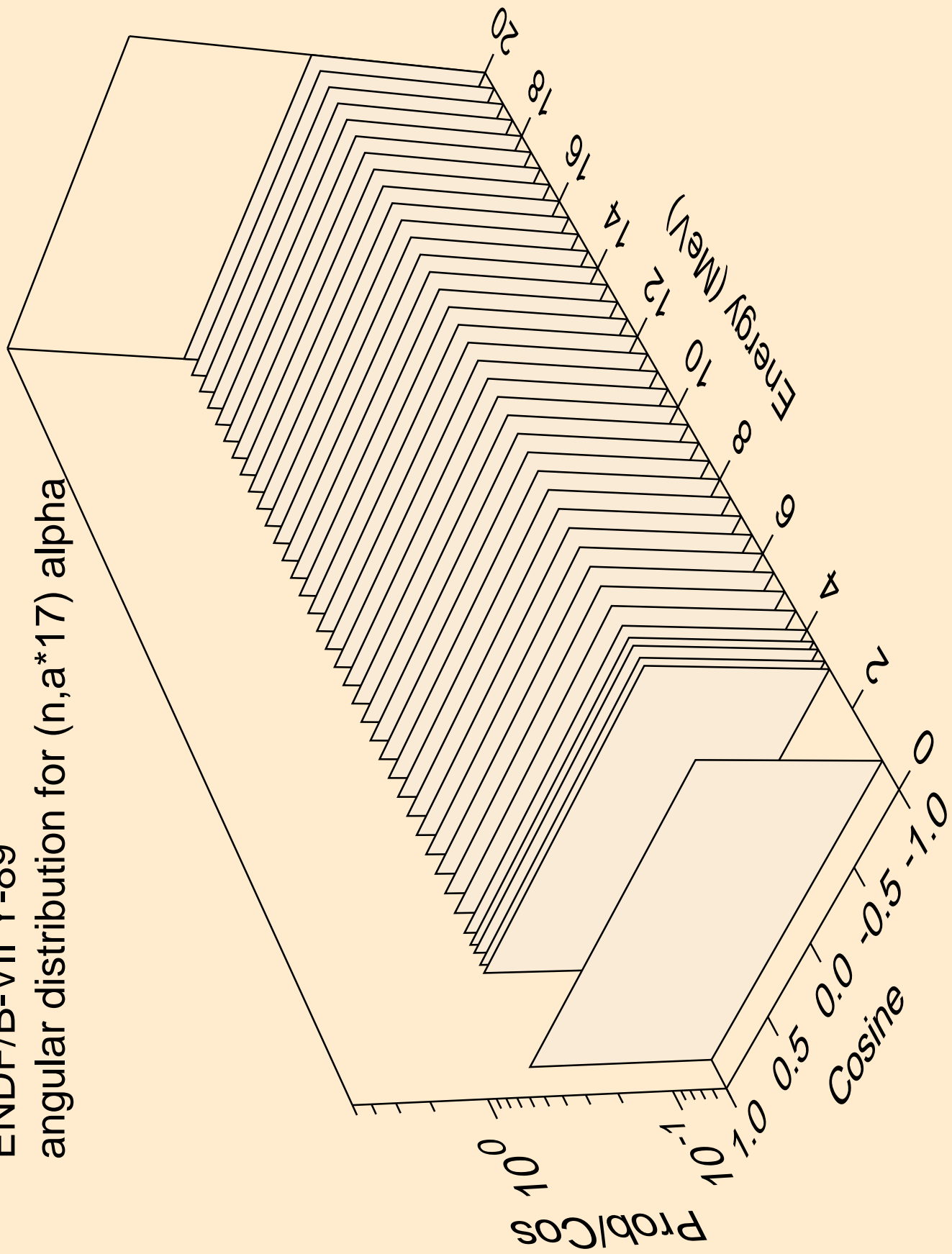
ENDF/B-VII Y-89  
angular distribution for (n,a\*15) alpha



ENDF/B-VII Y-89  
angular distribution for (n,a\*16) alpha

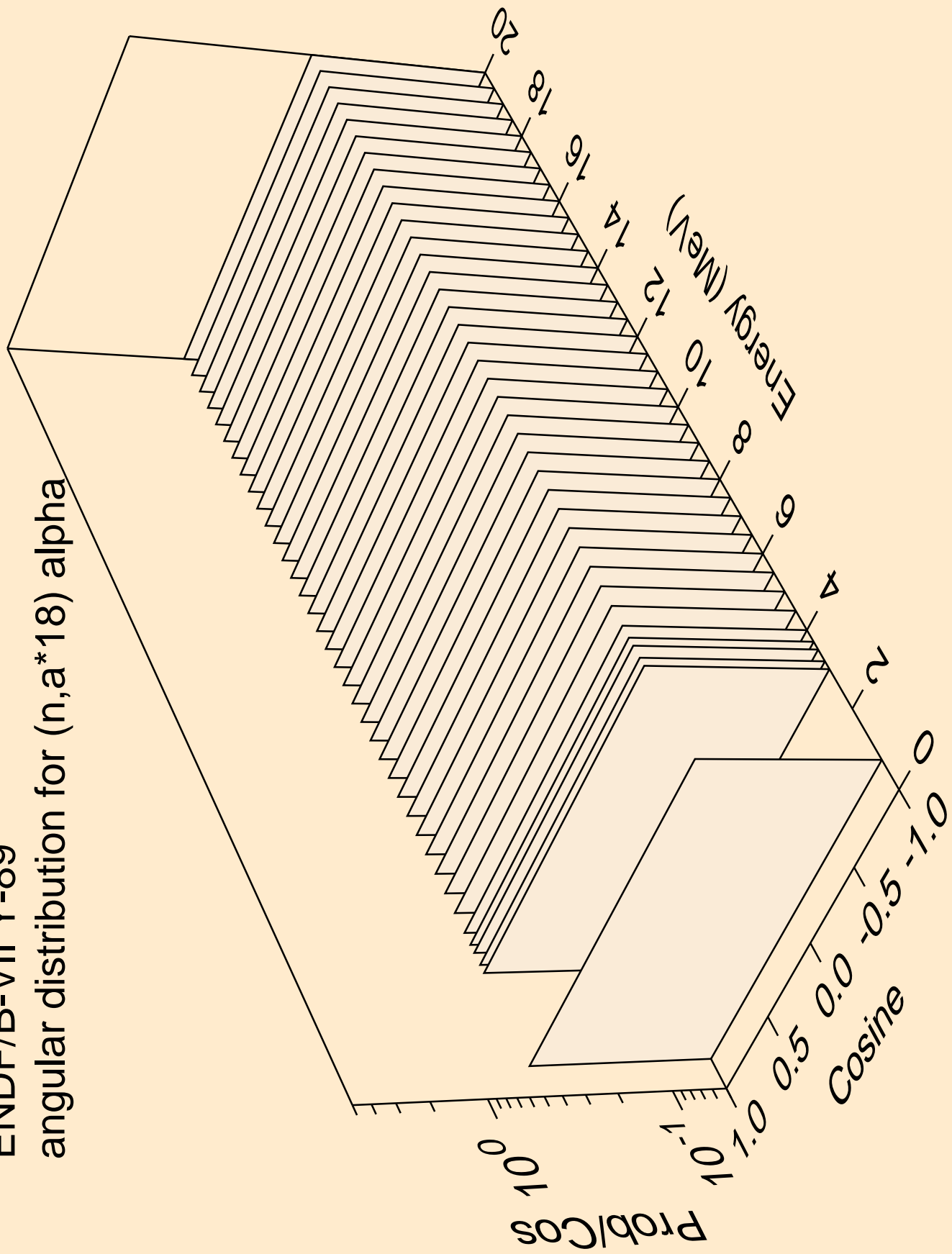


ENDF/B-VII Y-89  
angular distribution for (n,a\*17) alpha

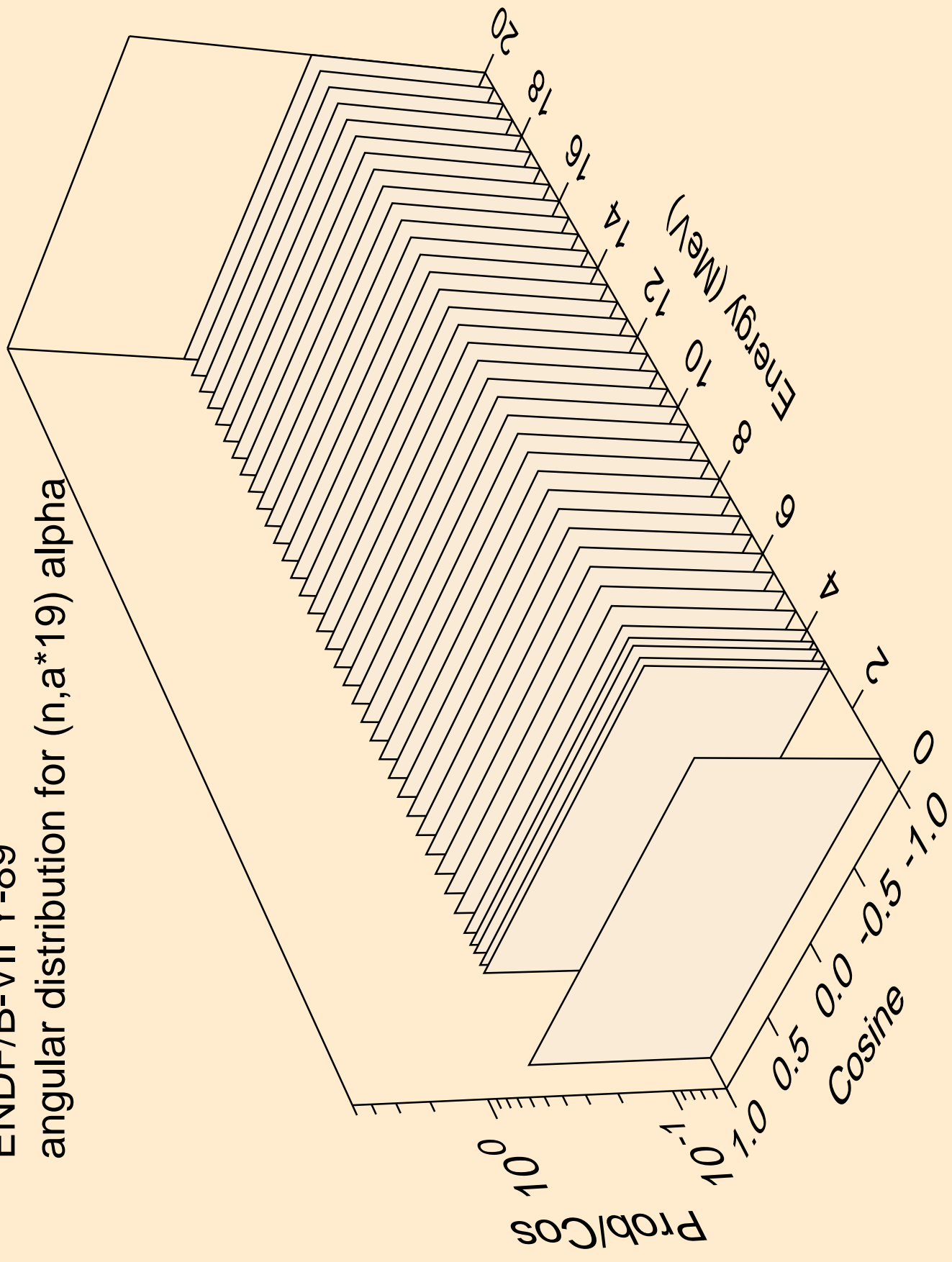




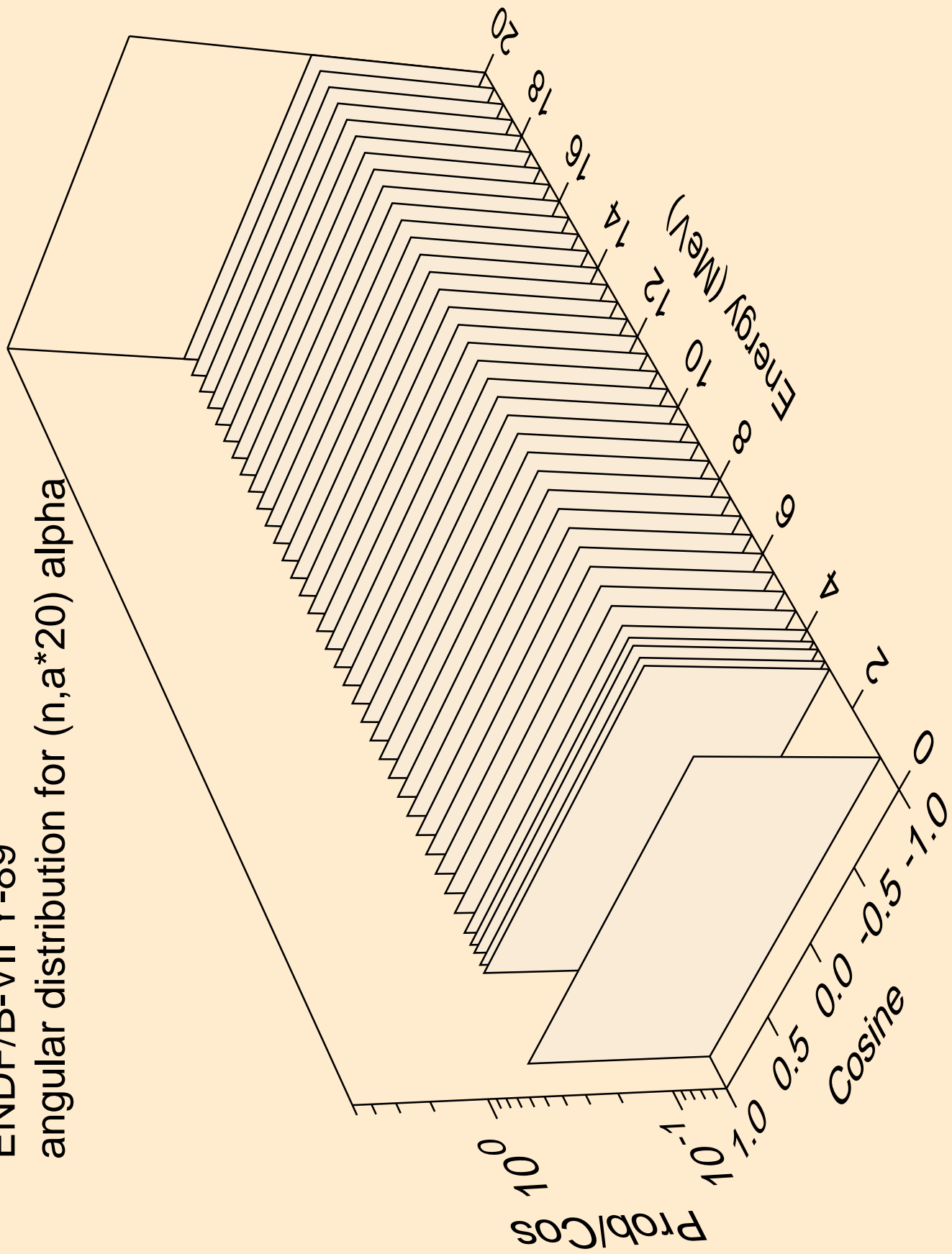
ENDF/B-VII Y-89  
angular distribution for (n,a\*18) alpha



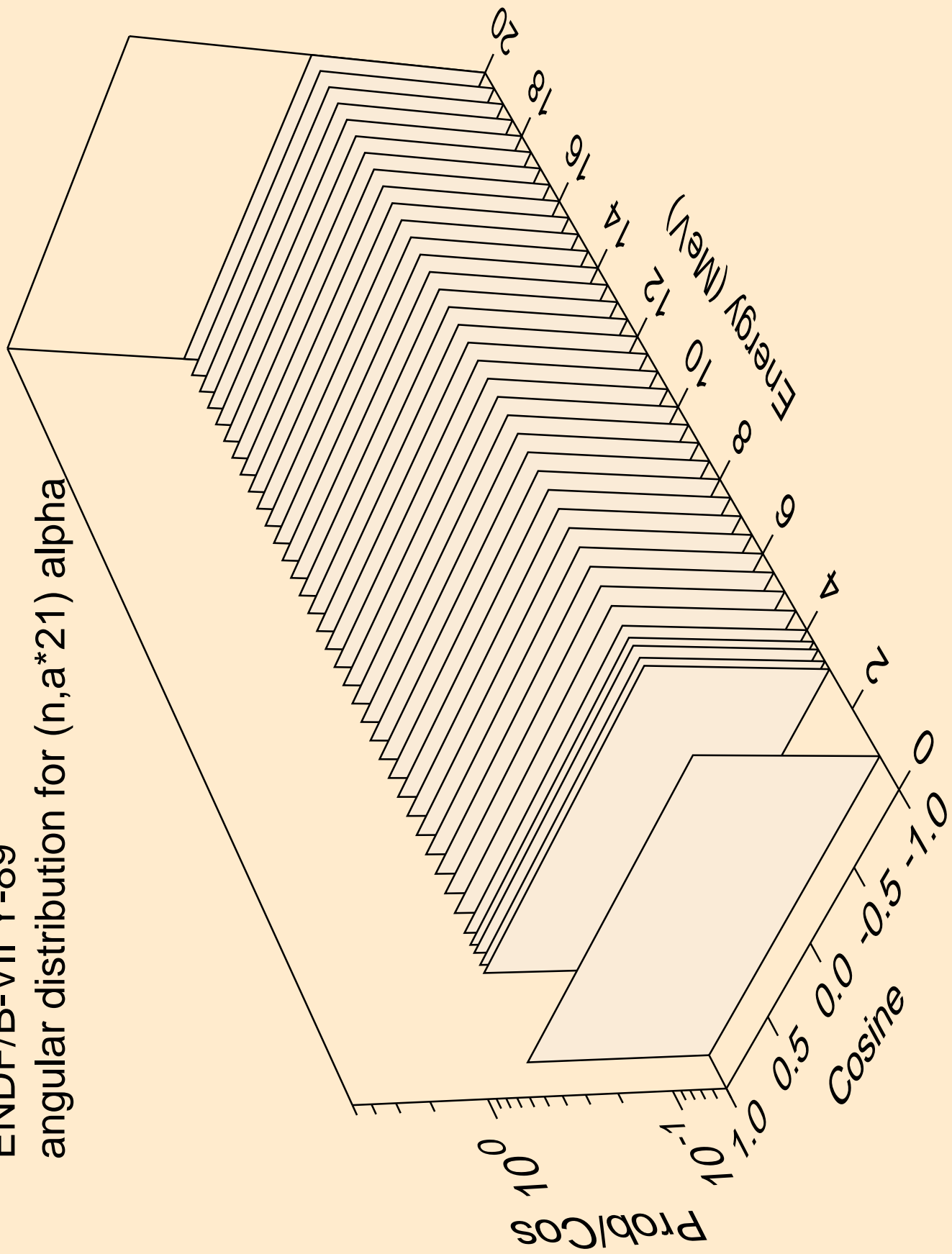
ENDF/B-VII Y-89  
angular distribution for (n,a\*19) alpha



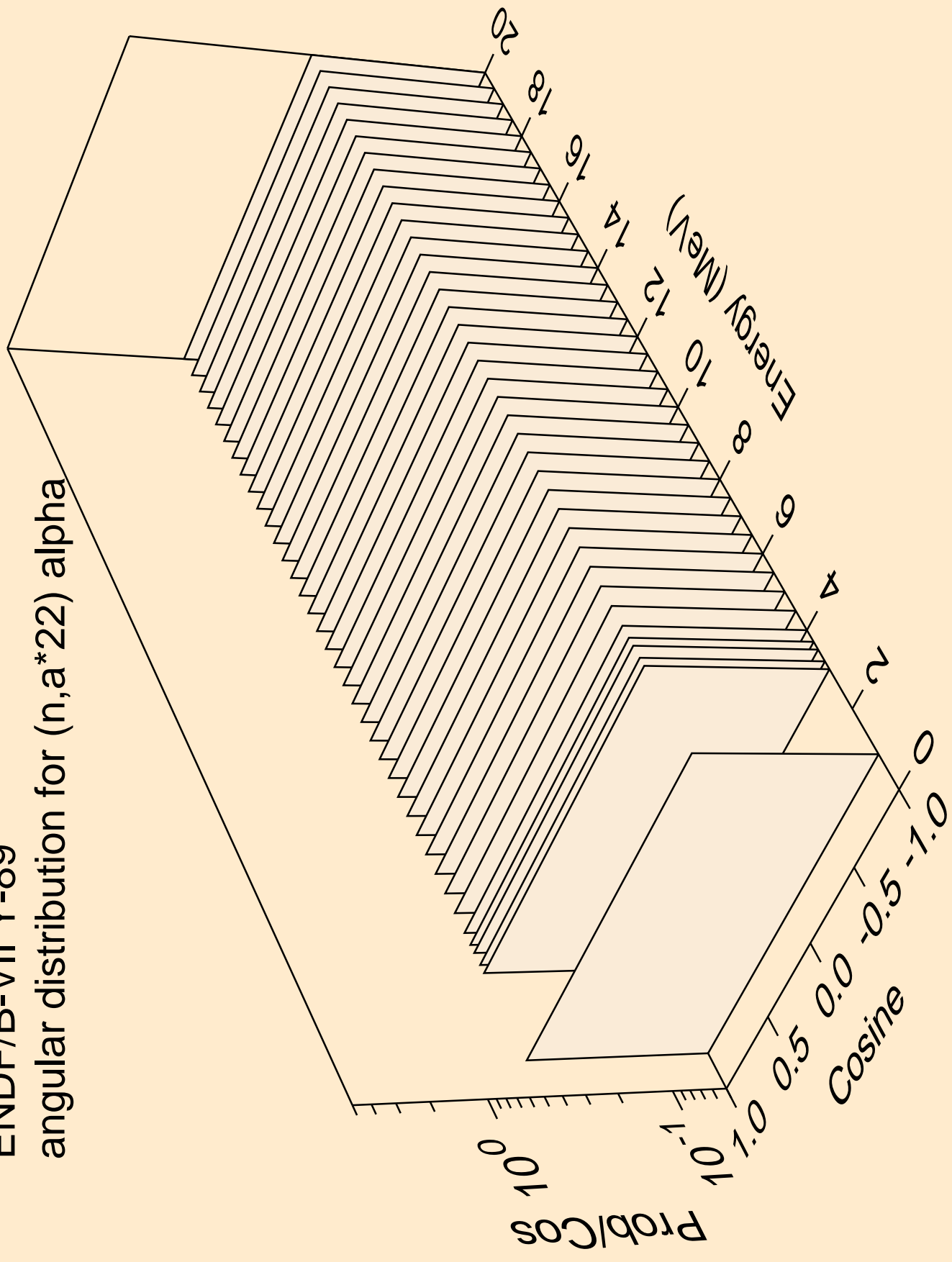
ENDF/B-VII Y-89  
angular distribution for (n,a\*20) alpha



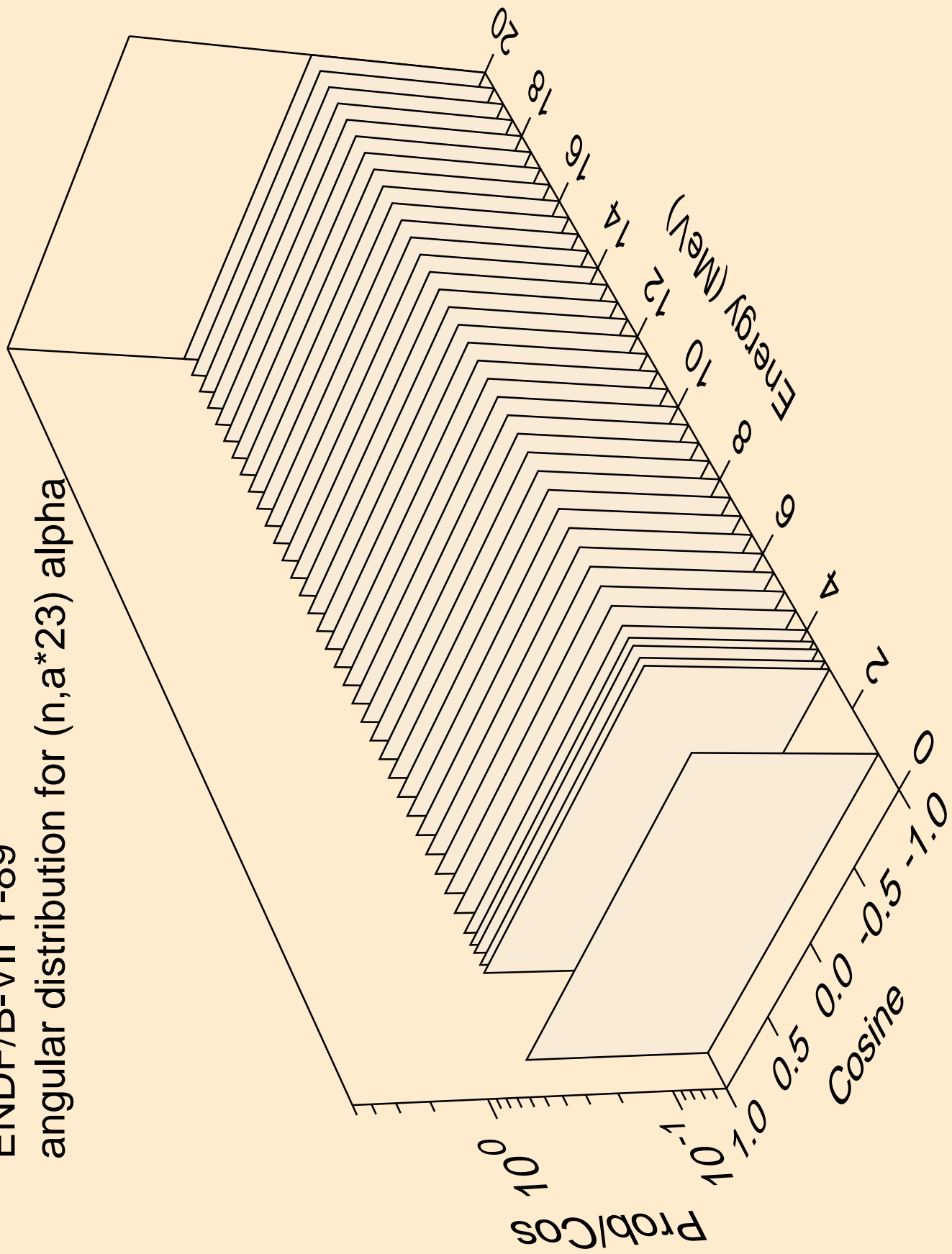
ENDF/B-VII Y-89  
angular distribution for (n,a\*21) alpha



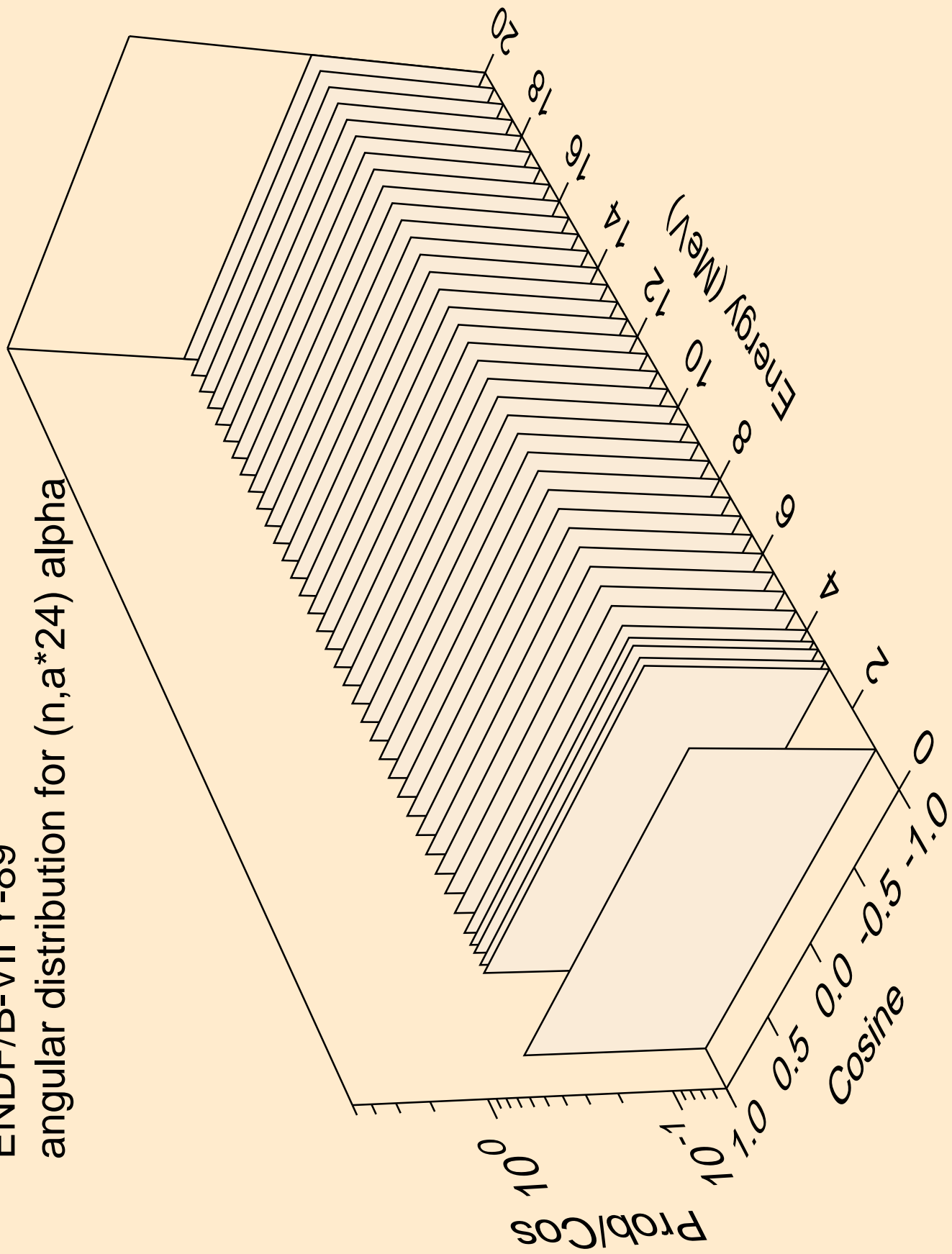
ENDF/B-VII Y-89  
angular distribution for (n,a\*22) alpha



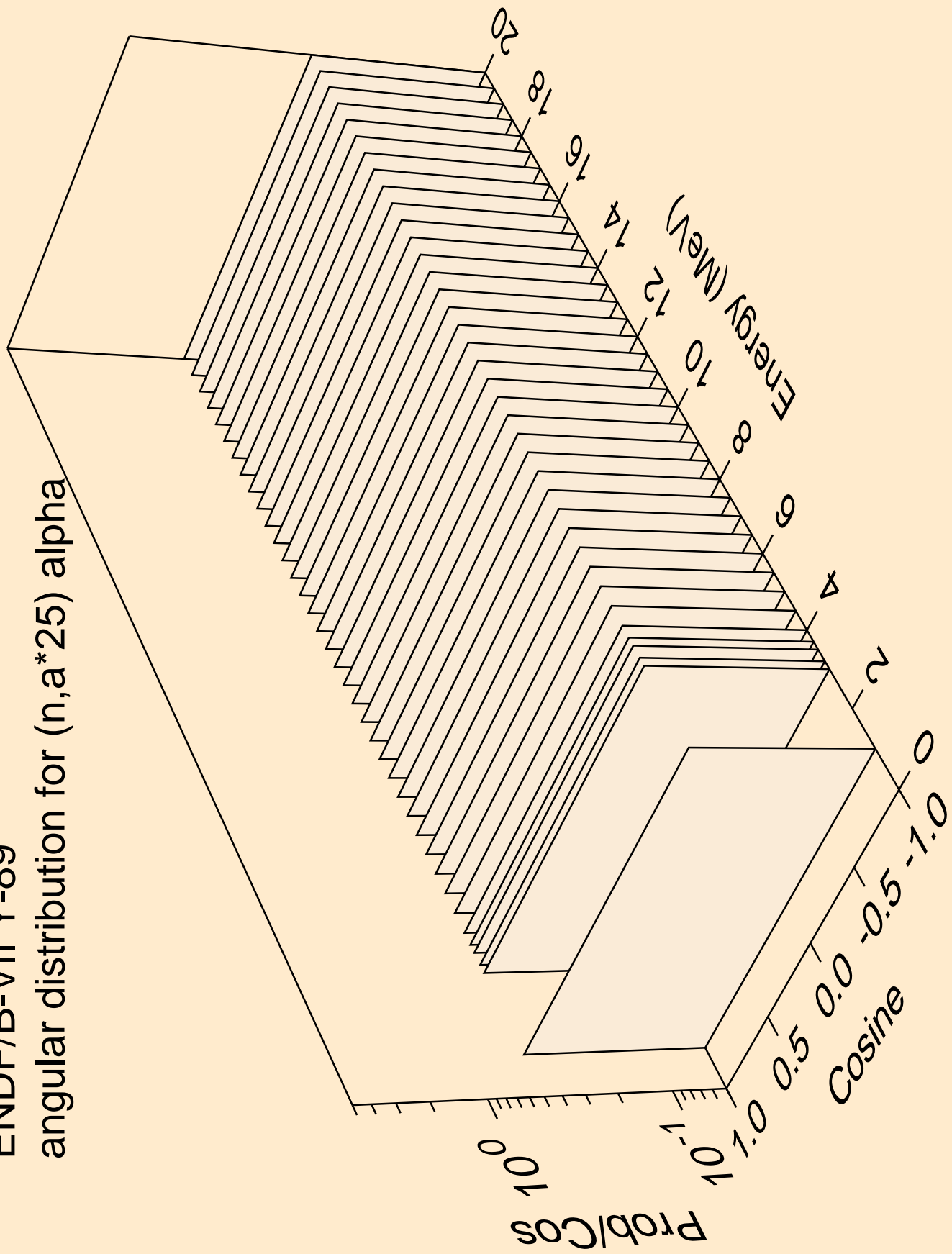
ENDF/B-VII Y-89  
angular distribution for (n,a\*23) alpha



ENDF/B-VII Y-89  
angular distribution for (n,a\*24) alpha

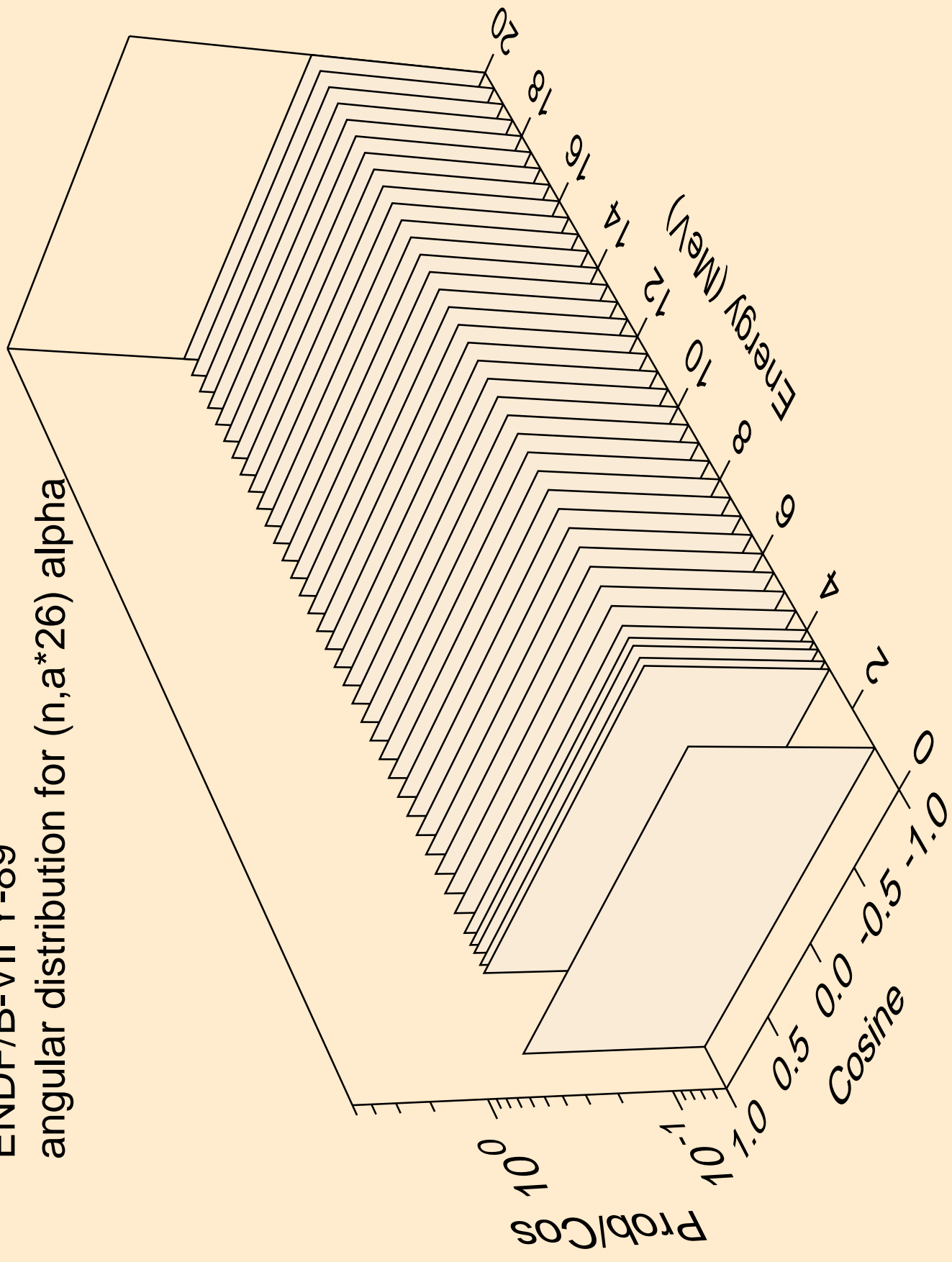


ENDF/B-VII Y-89  
angular distribution for (n,a\*25) alpha

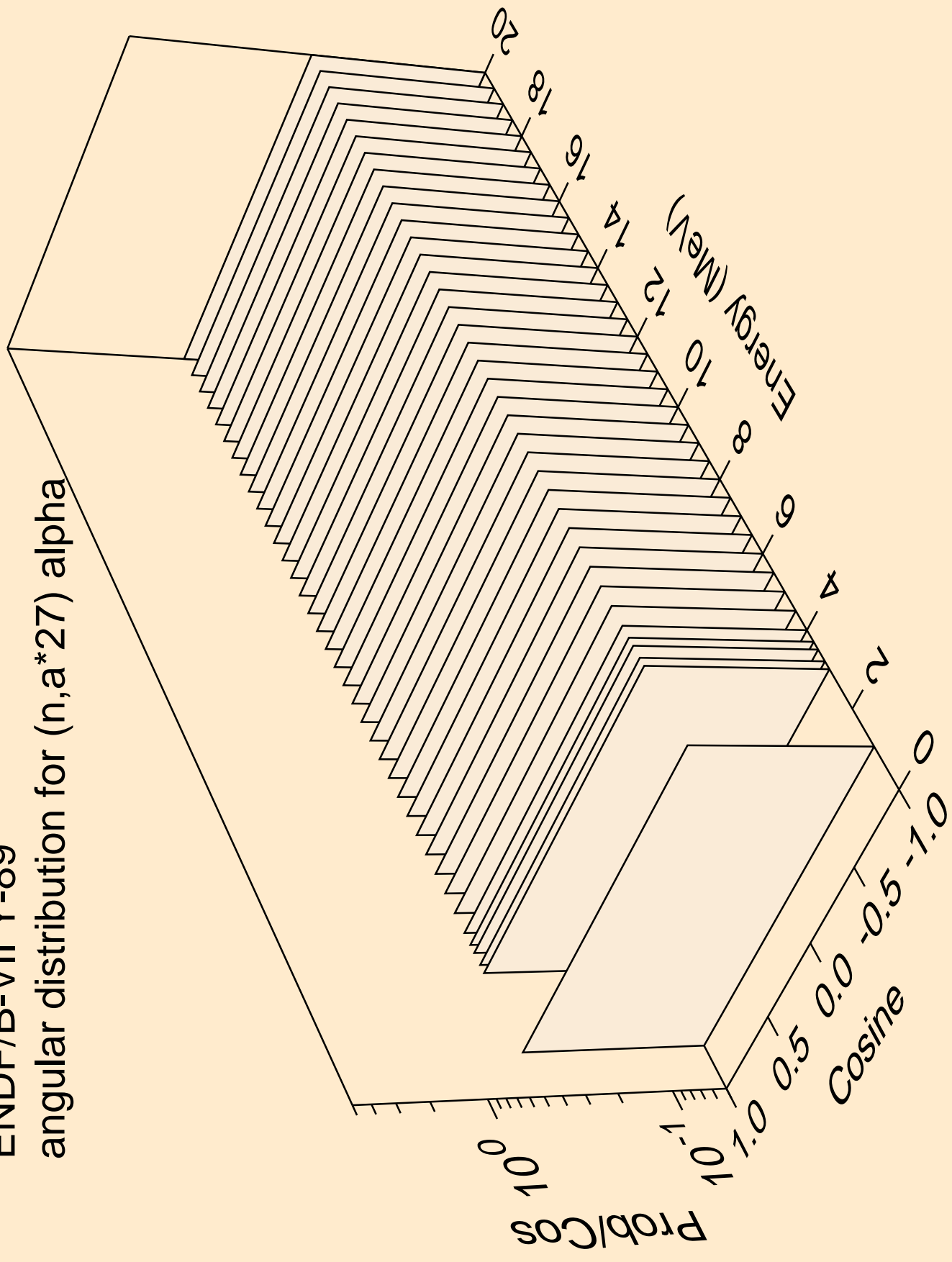




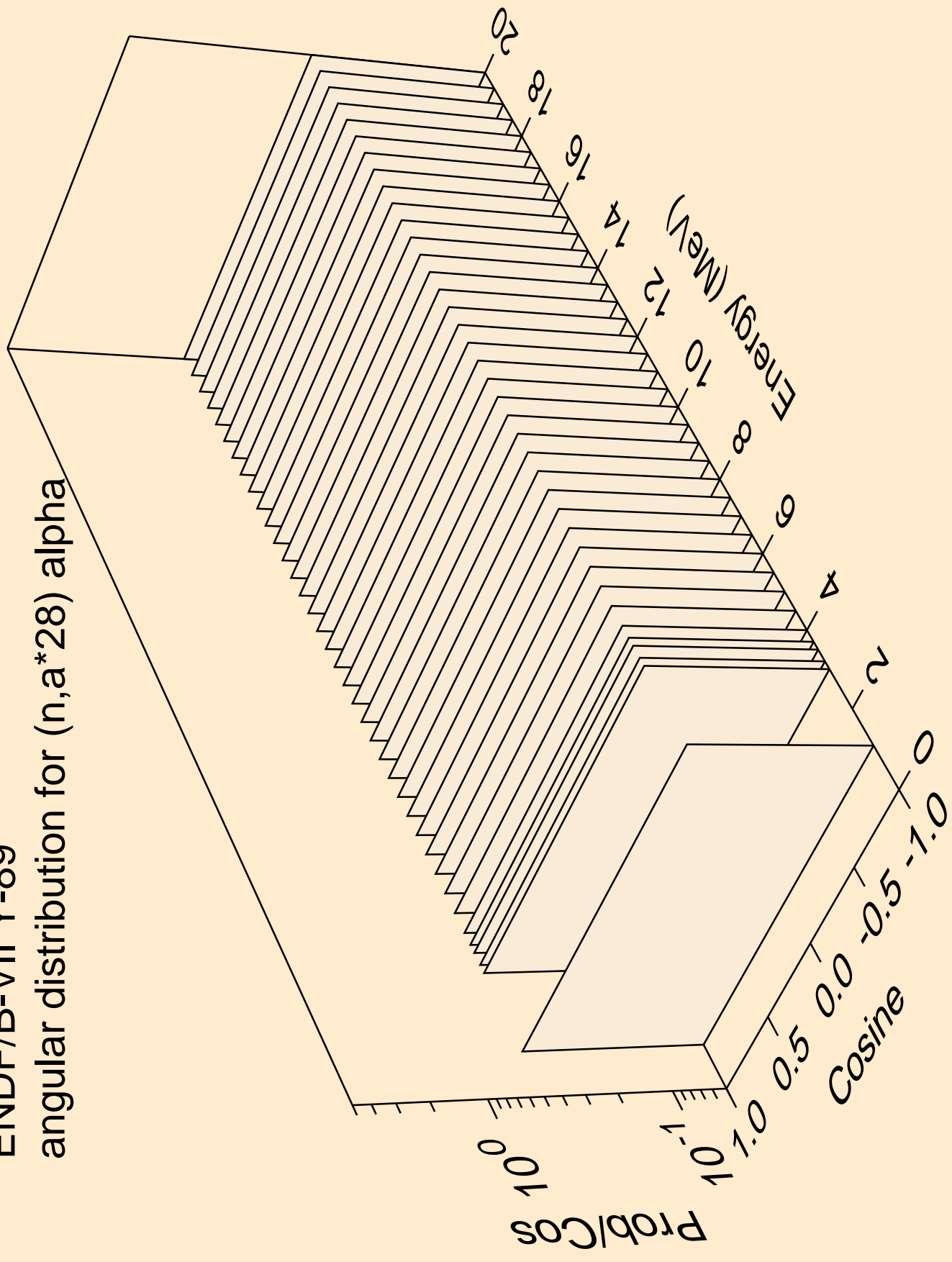
ENDF/B-VII Y-89  
angular distribution for (n,a\*26) alpha



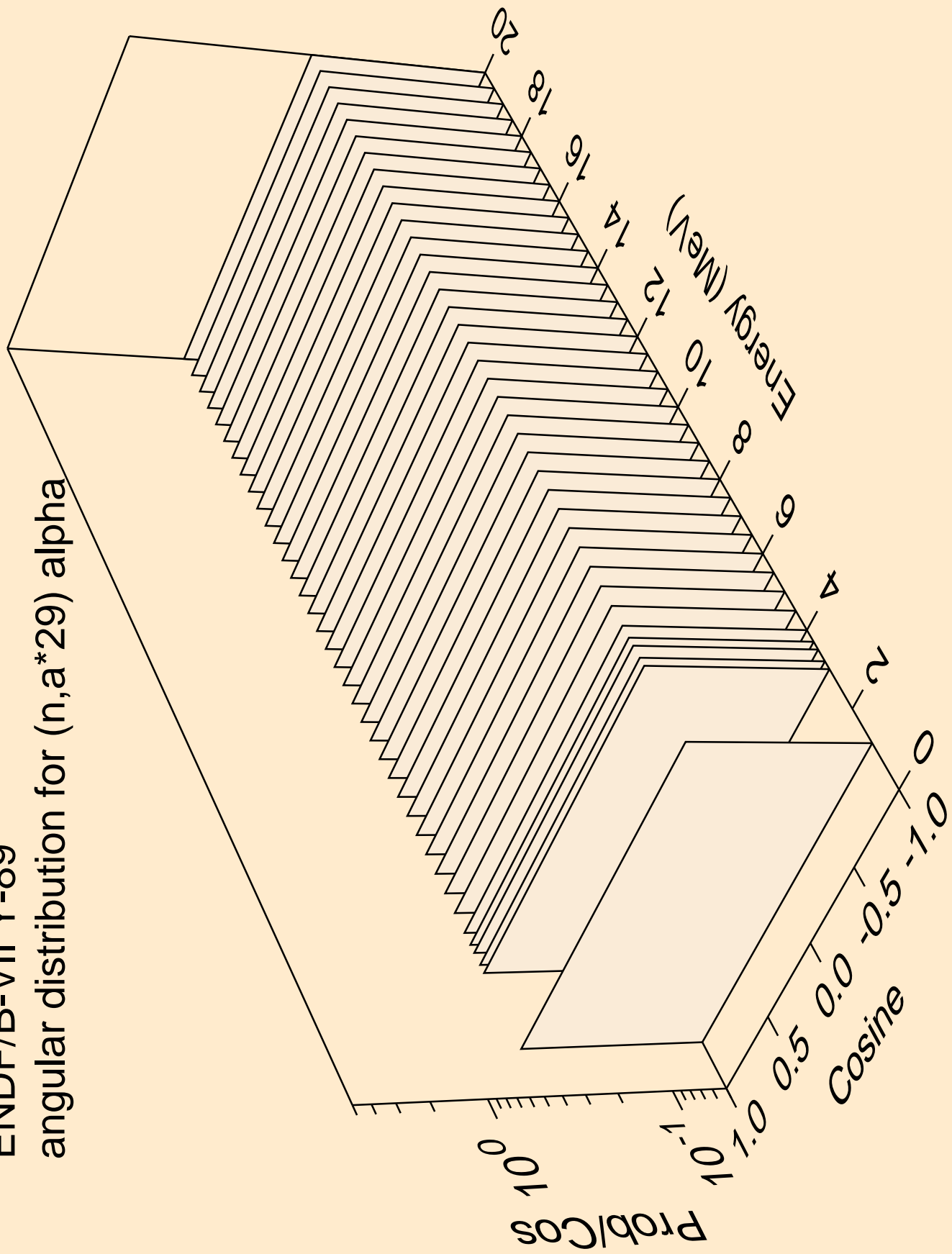
ENDF/B-VII Y-89  
angular distribution for (n,a\*27) alpha



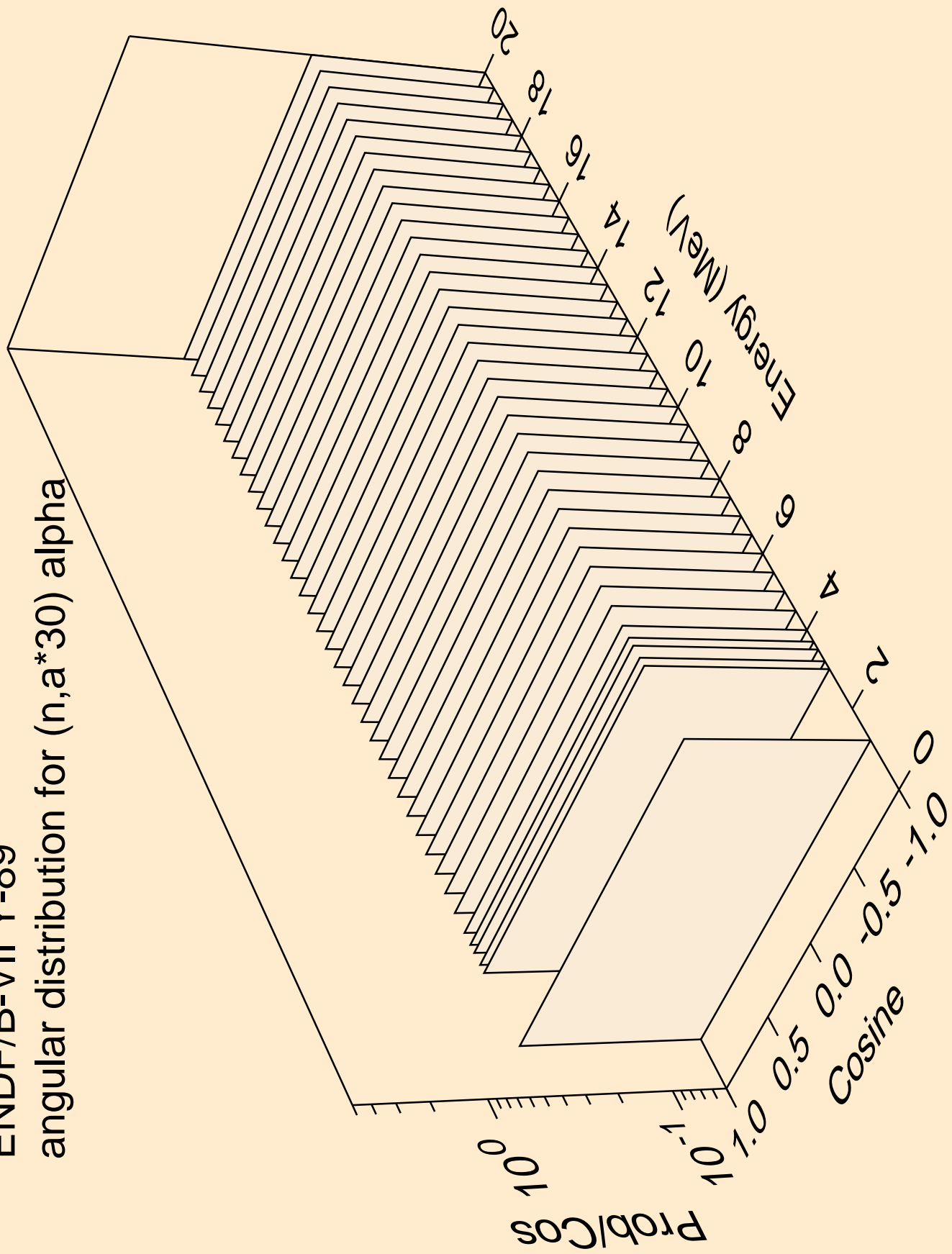
ENDF/B-VII Y-89  
angular distribution for (n,a\*28) alpha



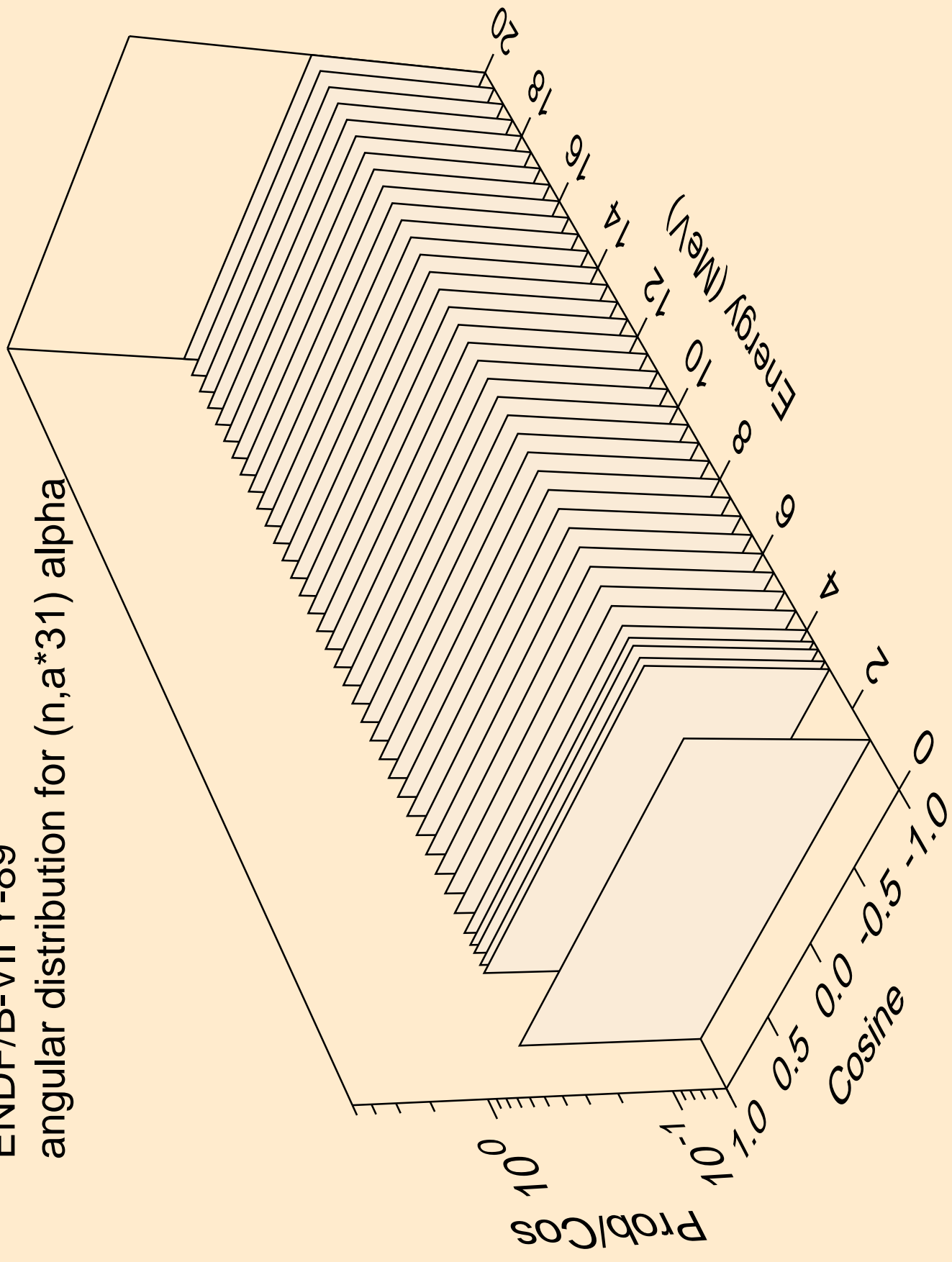
ENDF/B-VII Y-89  
angular distribution for (n,a\*29) alpha



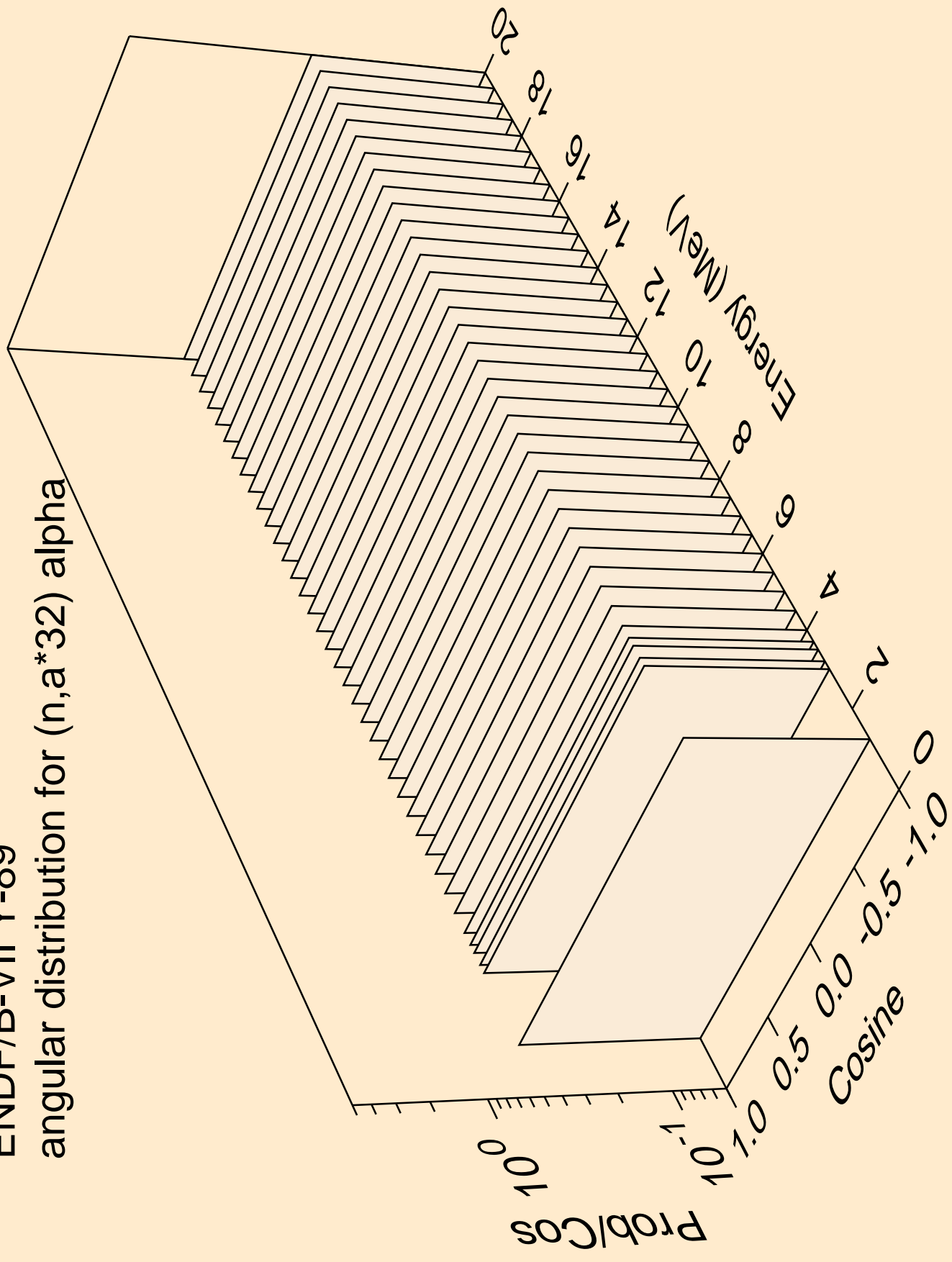
ENDF/B-VII Y-89  
angular distribution for (n,a\*30) alpha



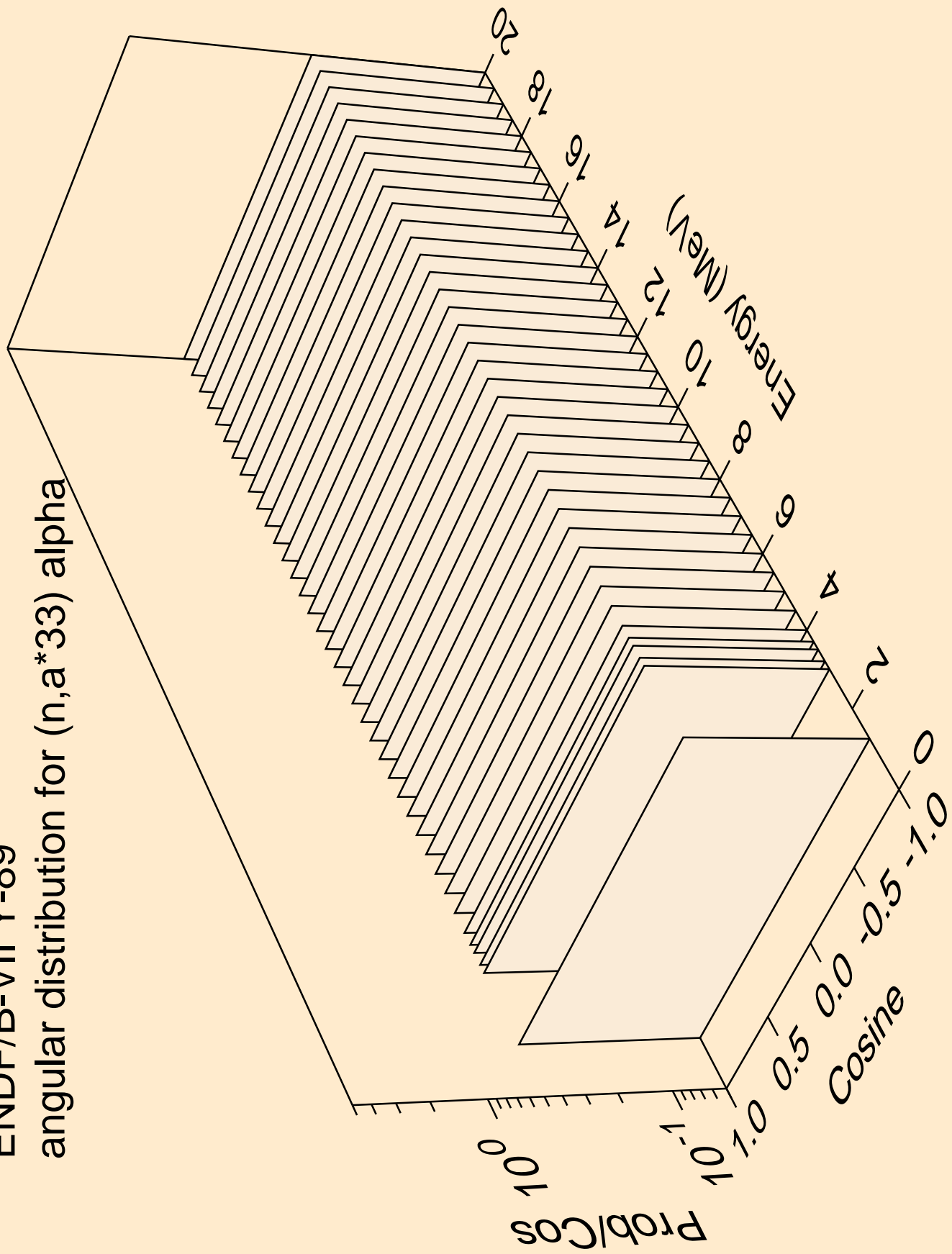
ENDF/B-VII Y-89  
angular distribution for (n,a\*31) alpha



ENDF/B-VII Y-89  
angular distribution for (n,a\*32) alpha

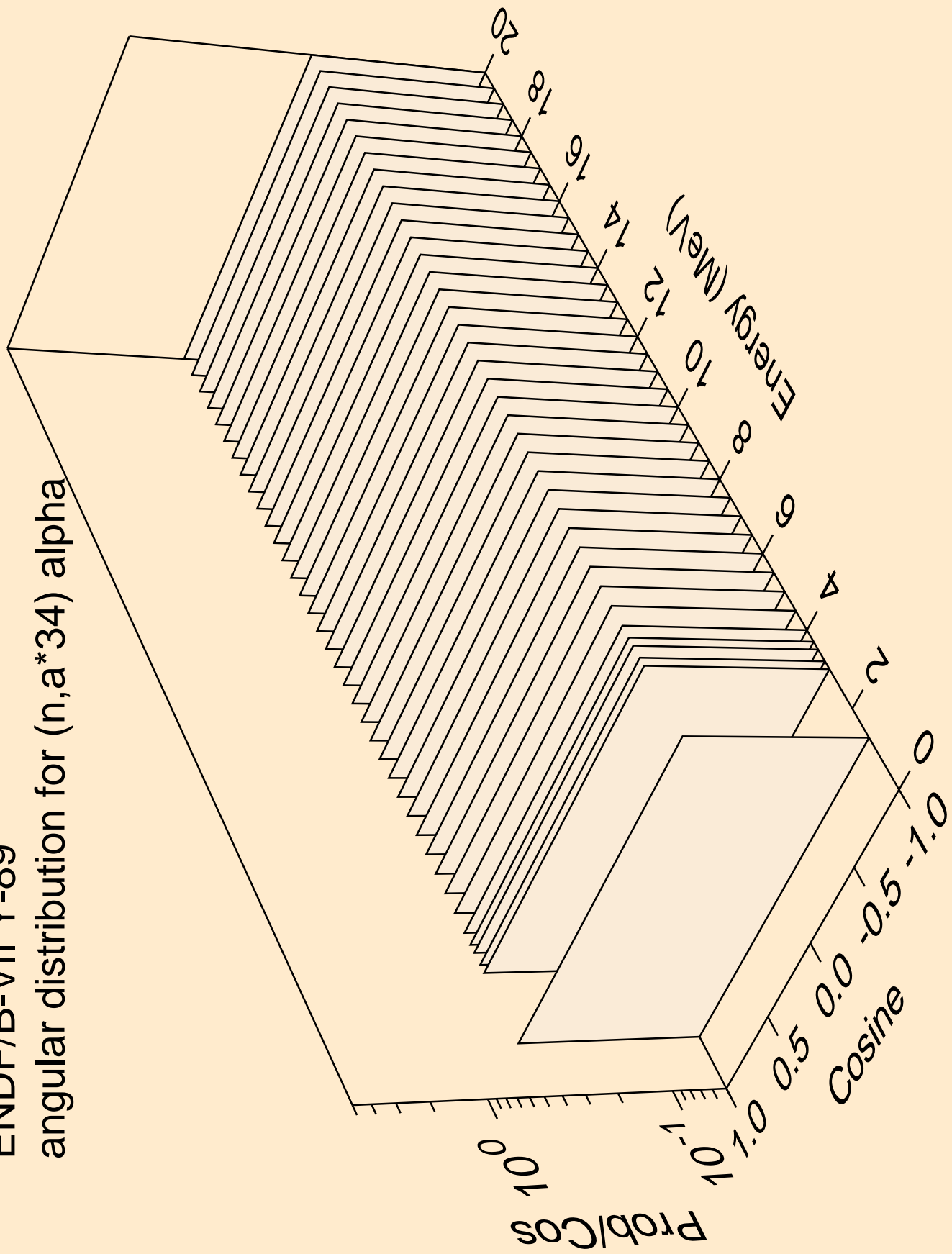


ENDF/B-VII Y-89  
angular distribution for (n,a\*33) alpha

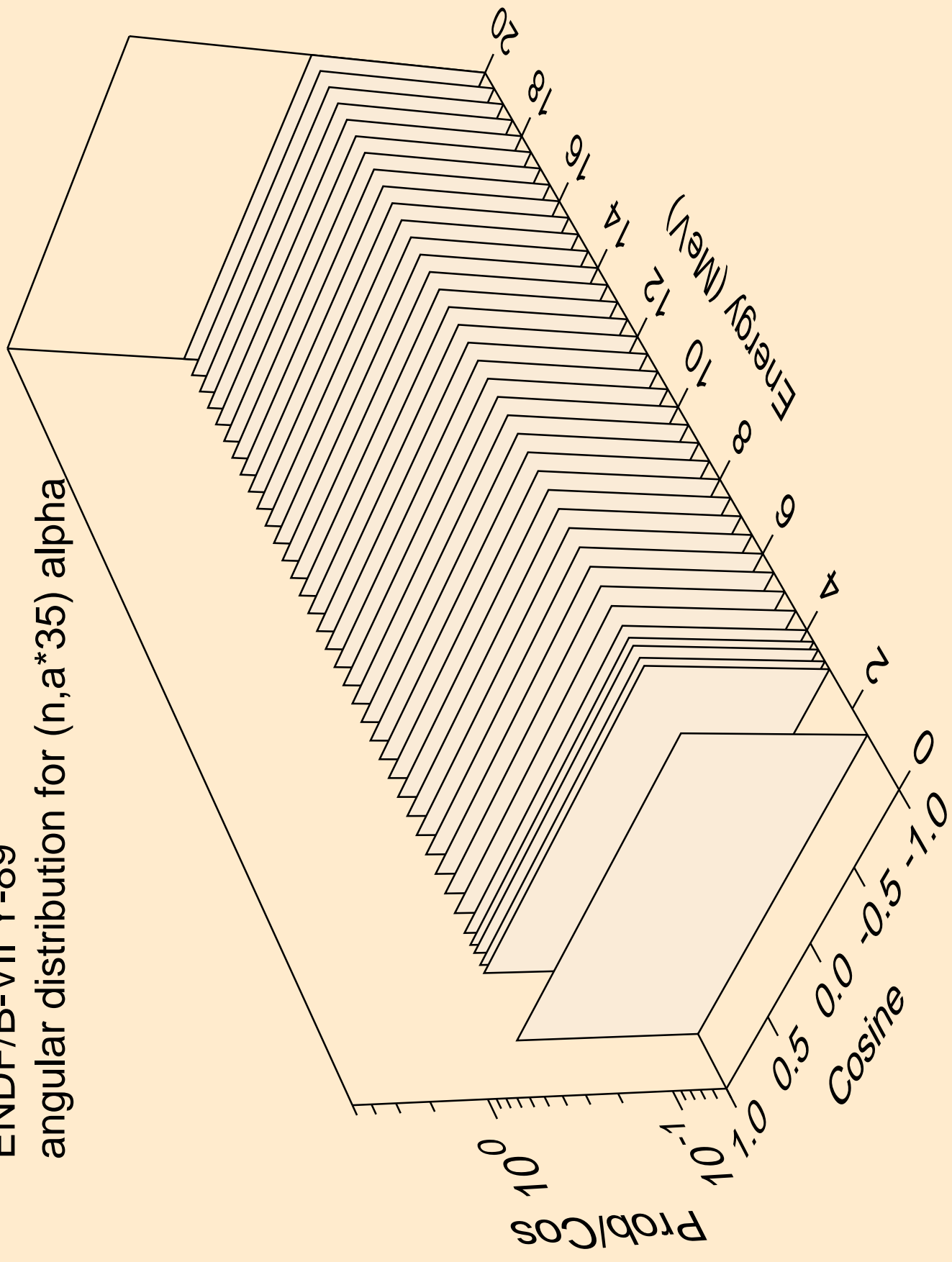




ENDF/B-VII Y-89  
angular distribution for (n,a\*34) alpha



ENDF/B-VII Y-89  
angular distribution for (n,a\*35) alpha



ENDF/B-VII Y-89  
alphas from (n,a\*c)

