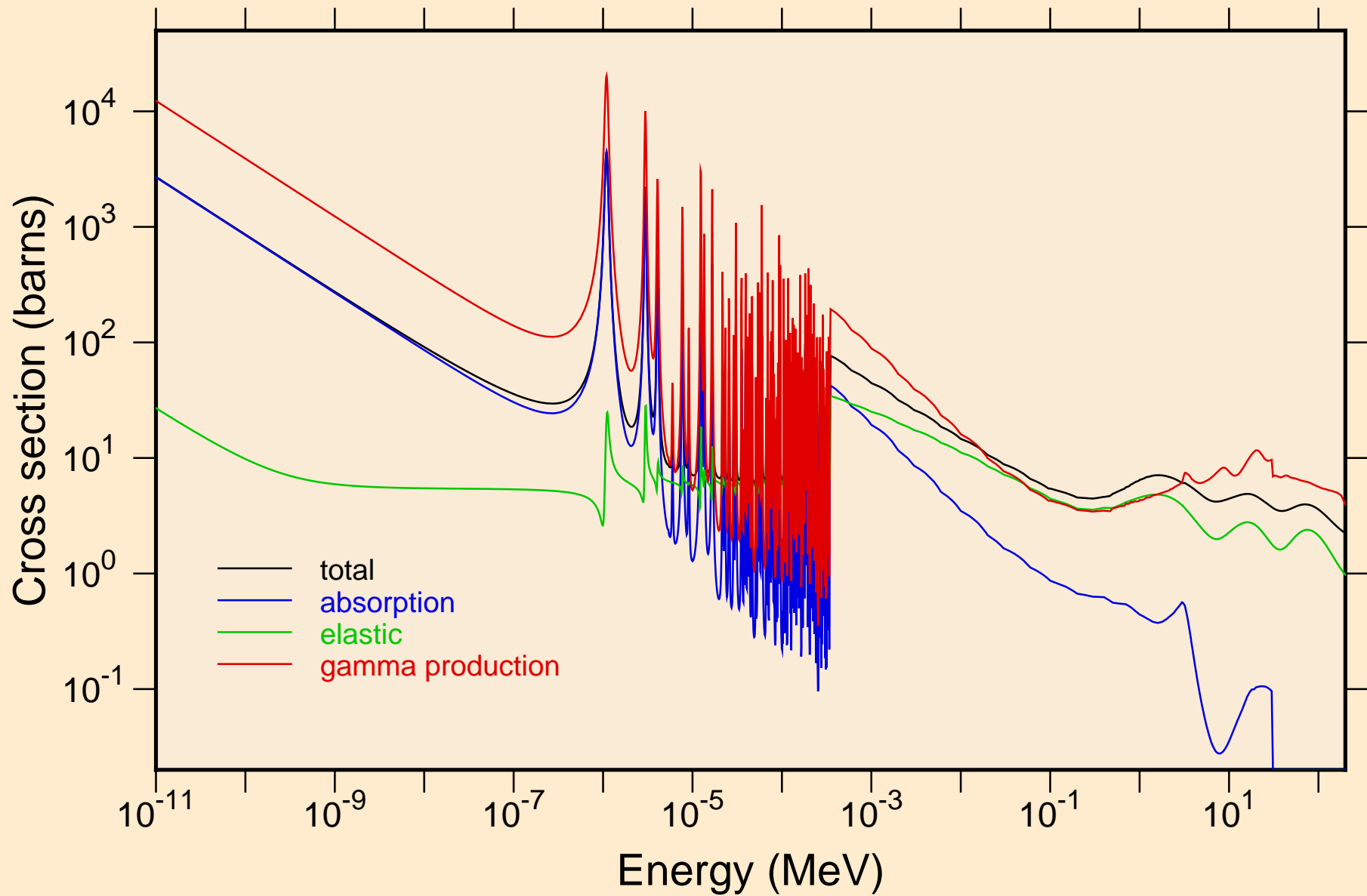
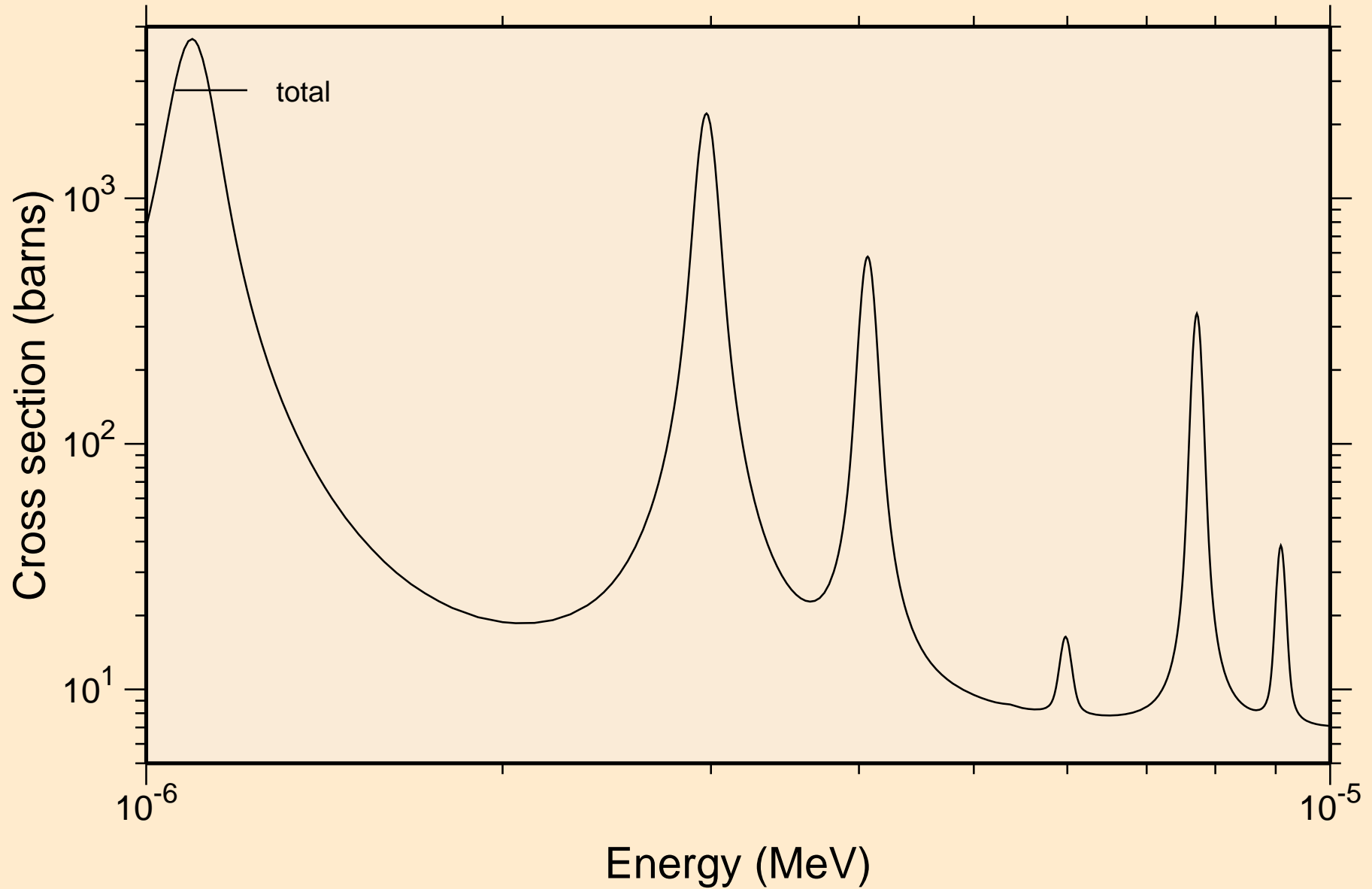


# ND139 NRG TENDL-2015, AKONING

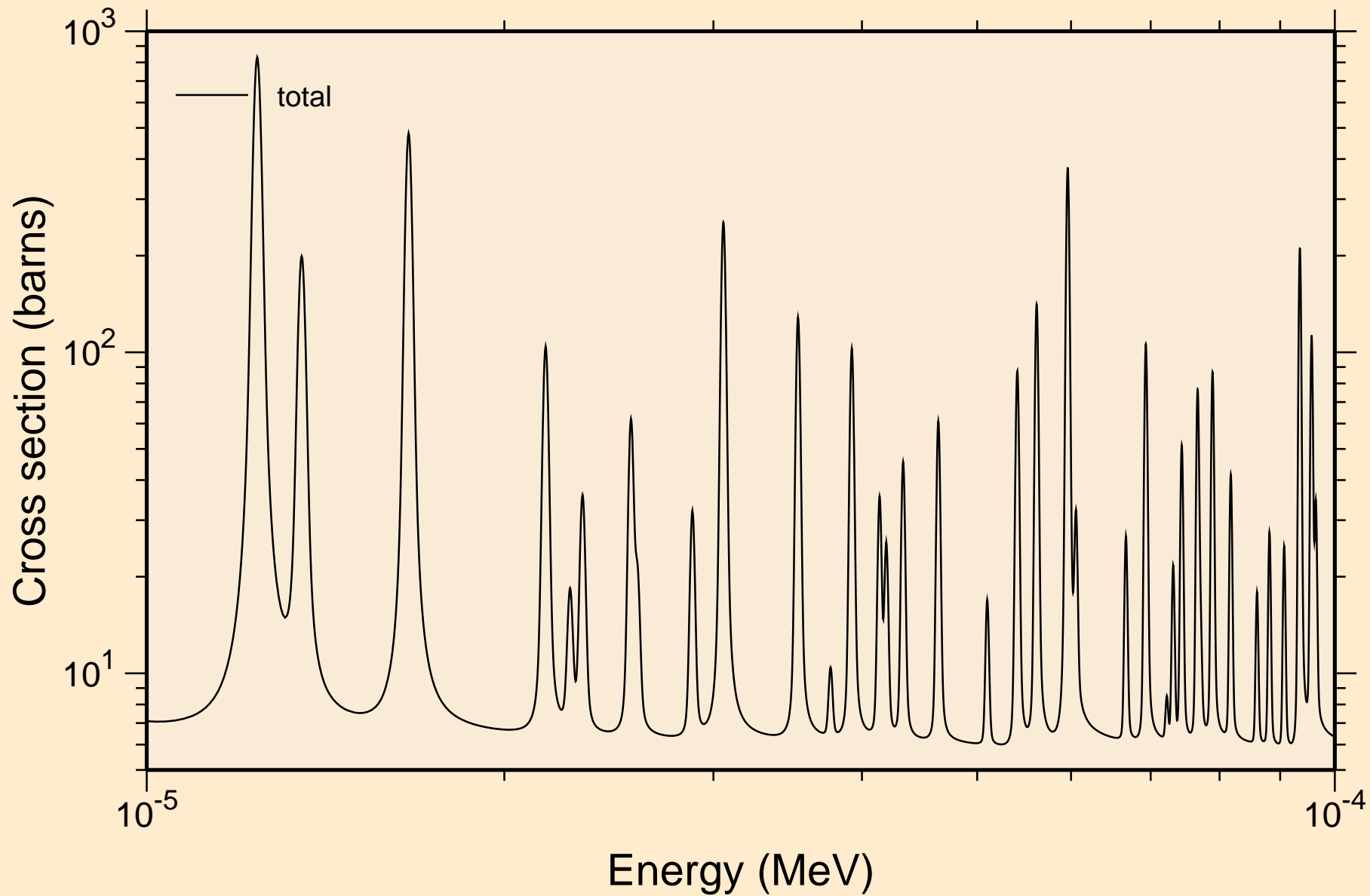
## Principal cross sections



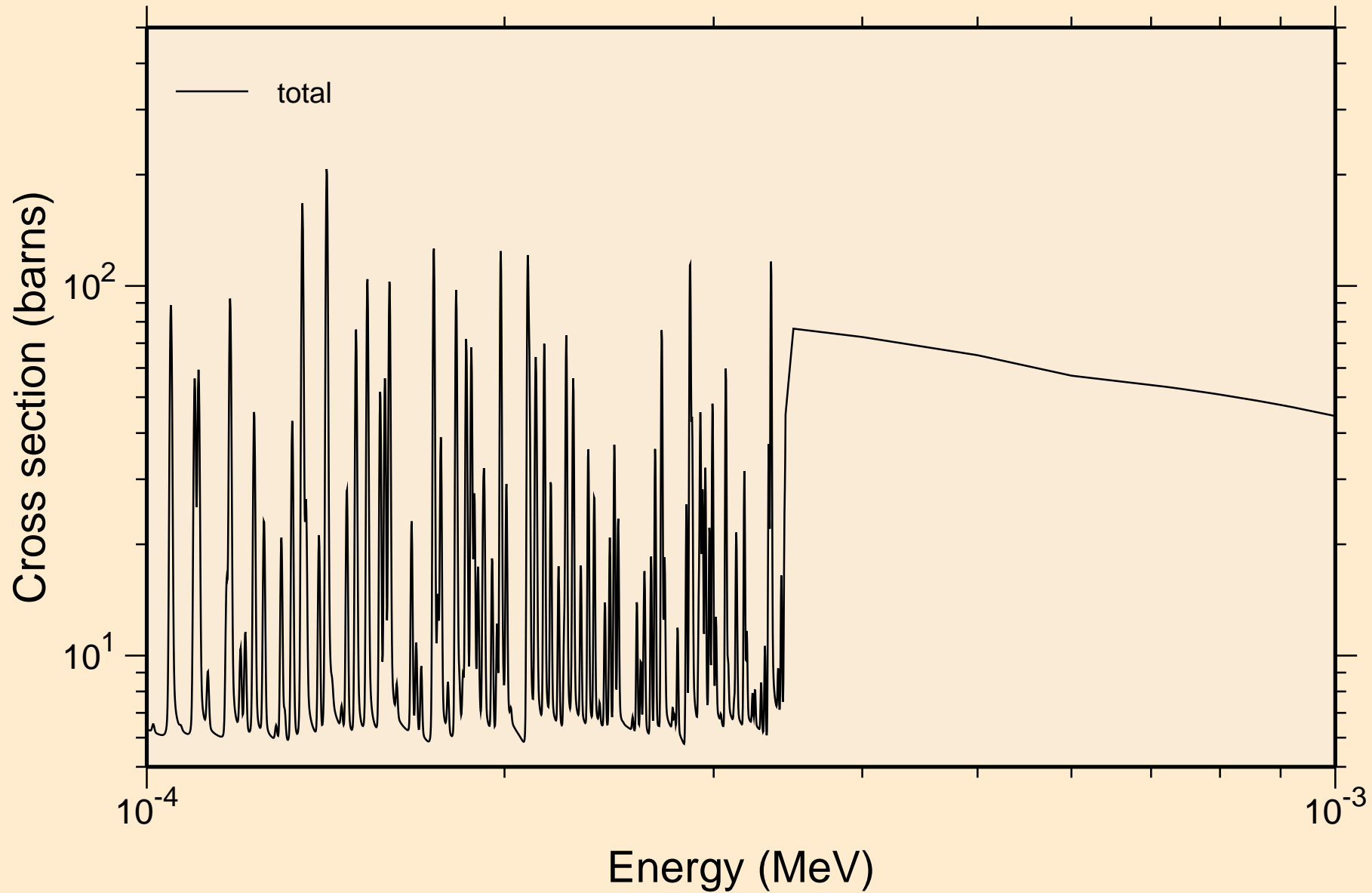
ND139 NRG TENDL-2015, AKONING  
resonance total cross section



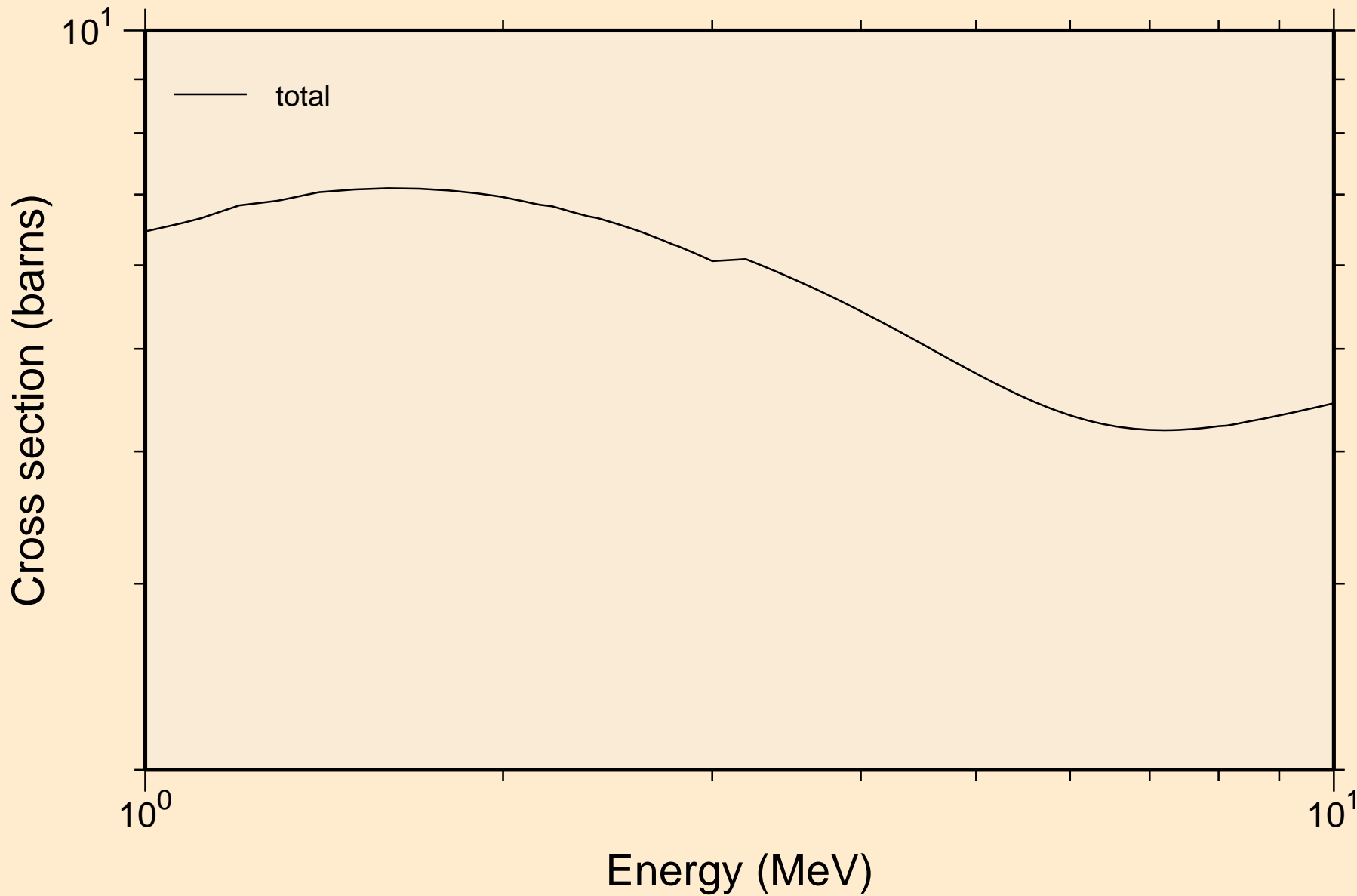
ND139 NRG TENDL-2015, AKONING  
resonance total cross section



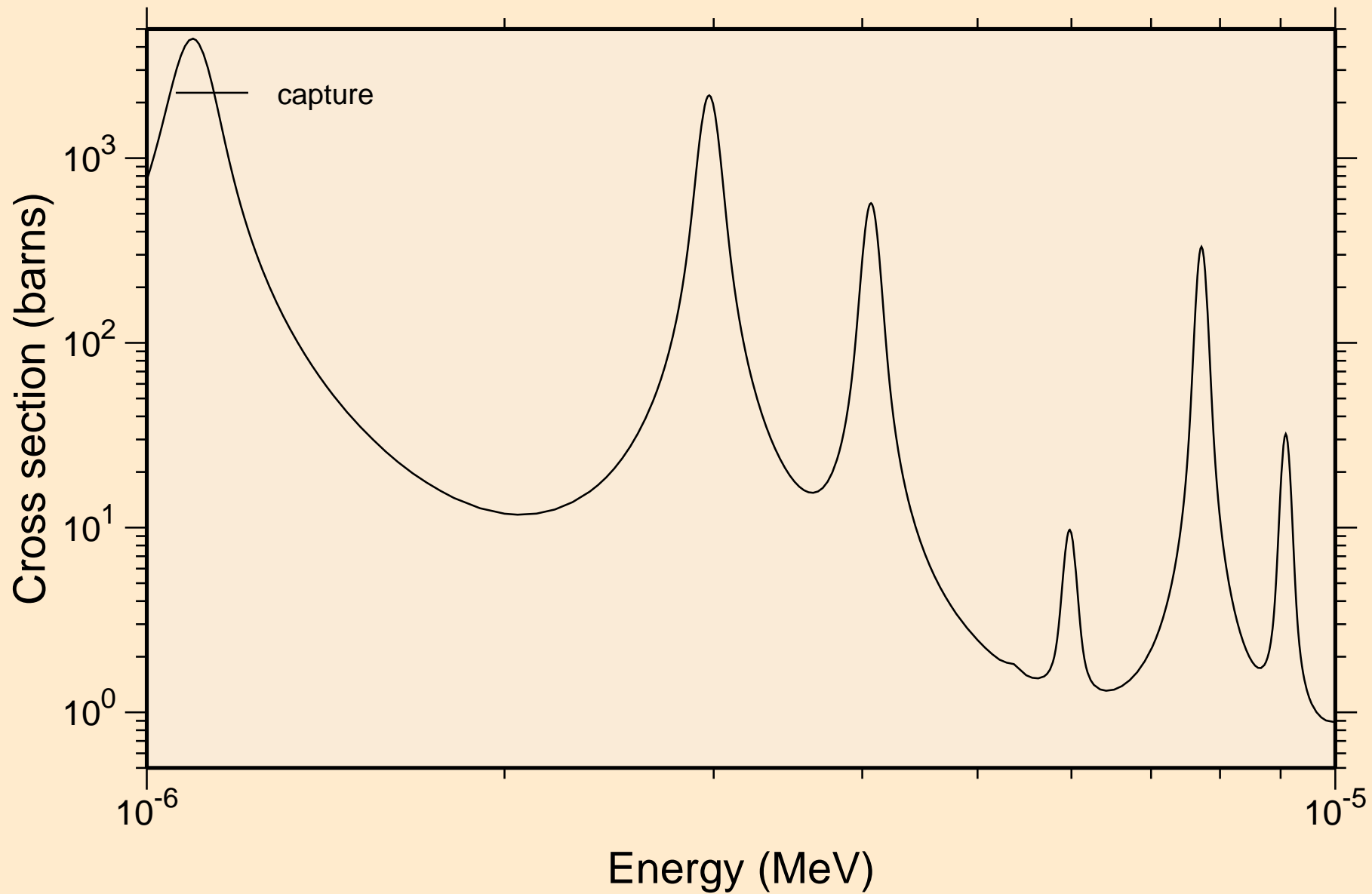
ND139 NRG TENDL-2015, AKONING  
resonance total cross section



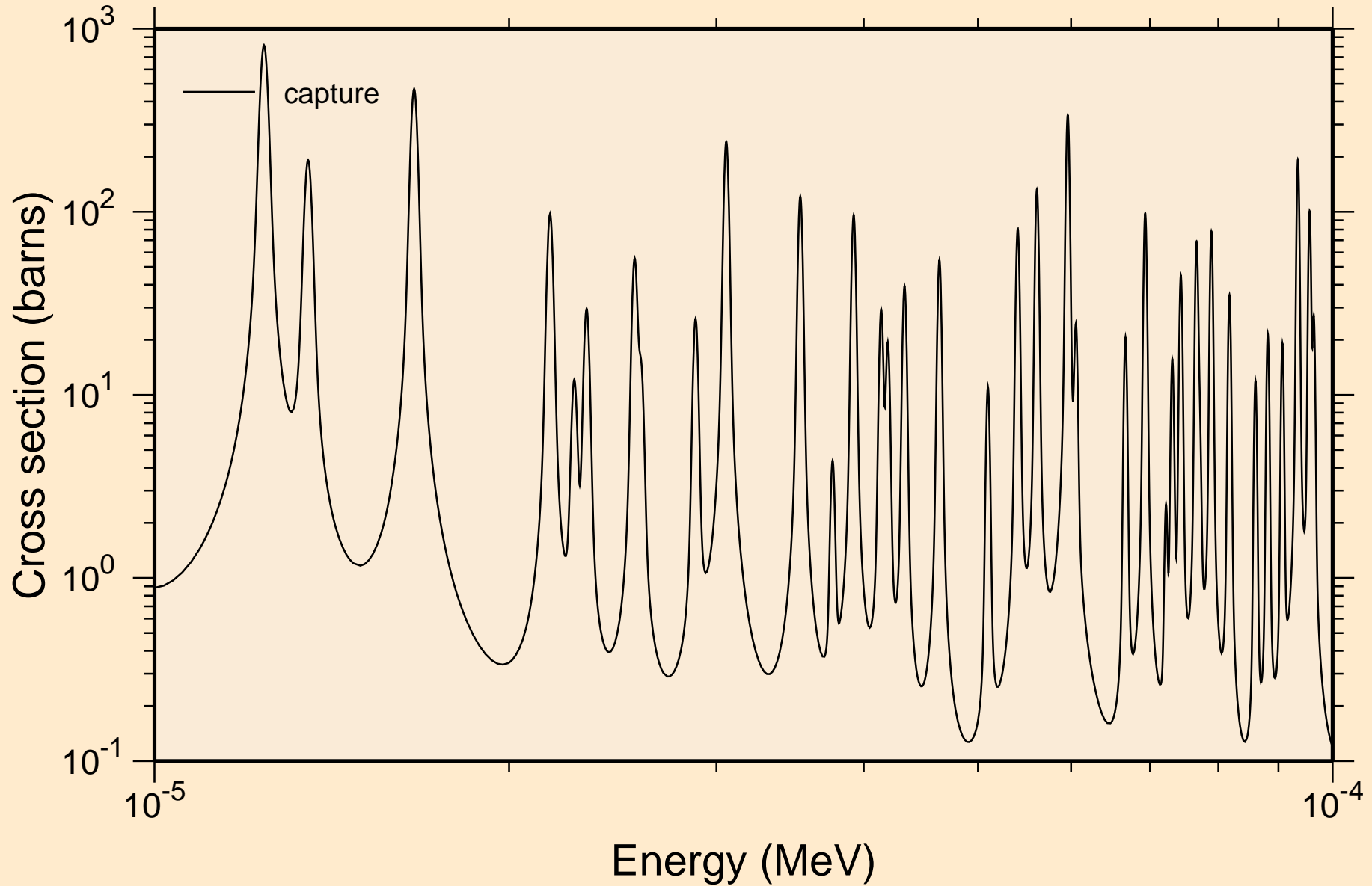
ND139 NRG TENDL-2015, AKONING  
resonance total cross section



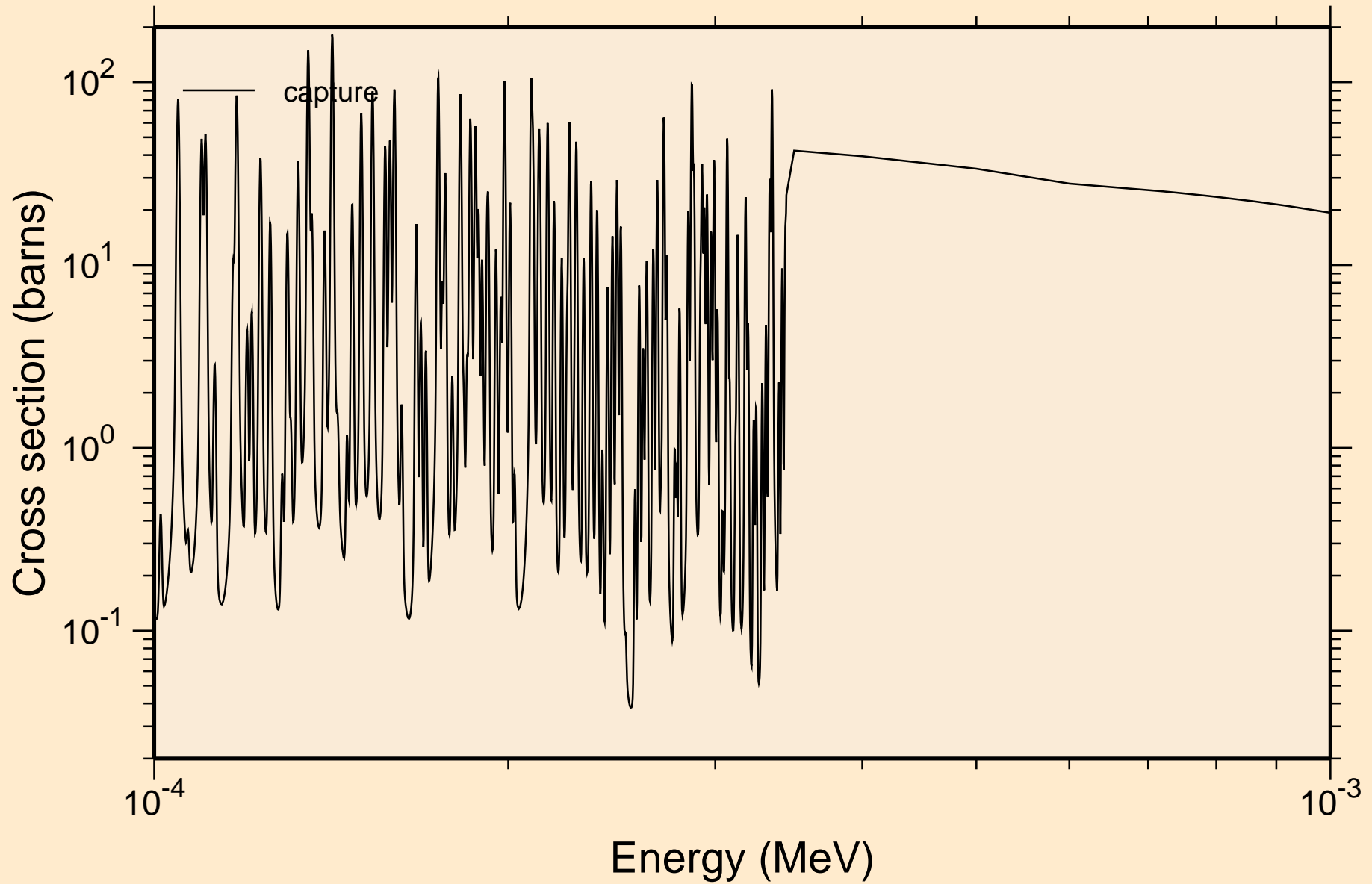
ND139 NRG TENDL-2015, AKONING  
resonance absorption cross sections



# ND139 NRG TENDL-2015, AKONING resonance absorption cross sections

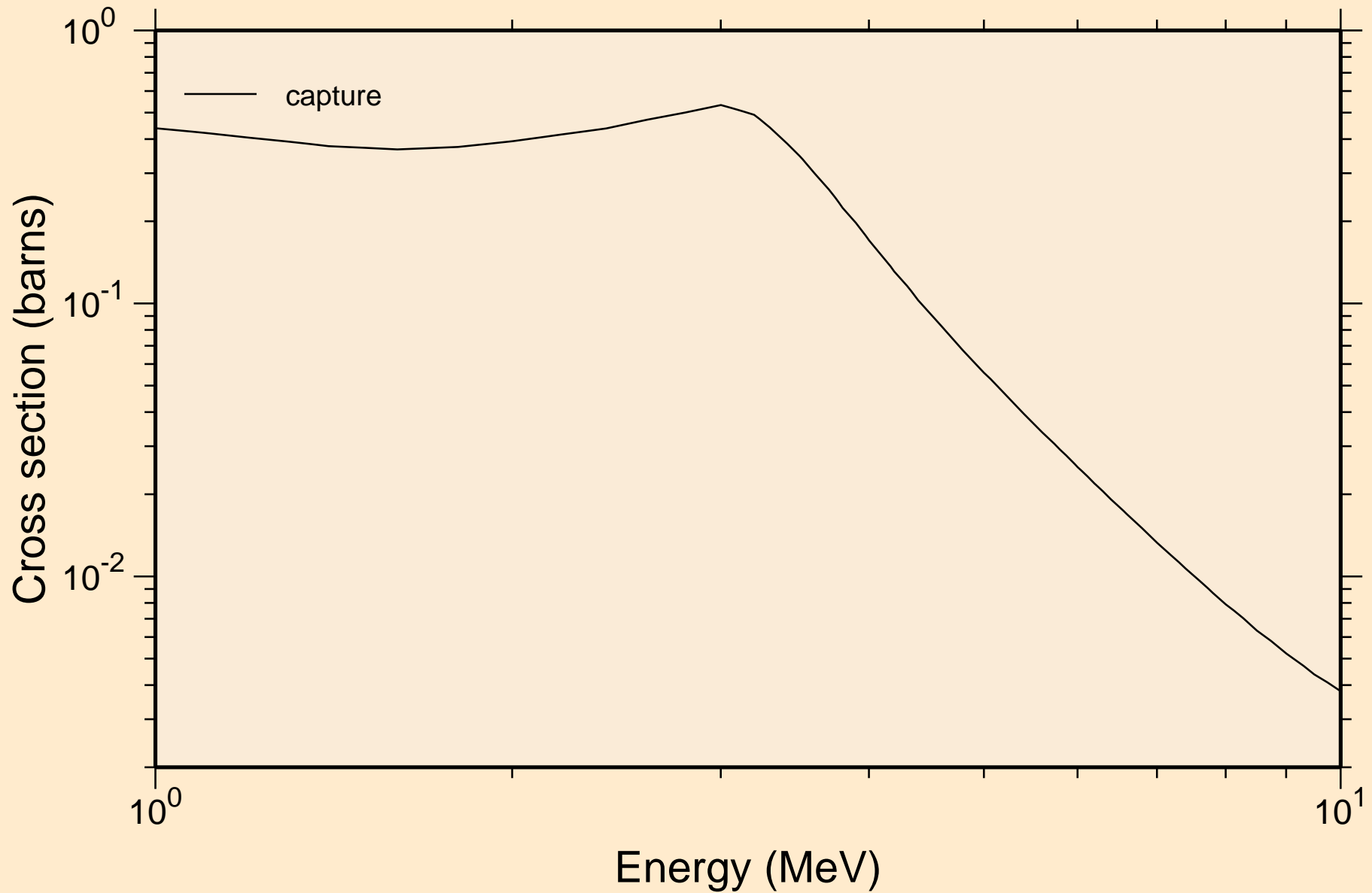


ND139 NRG TENDL-2015, AKONING  
resonance absorption cross sections



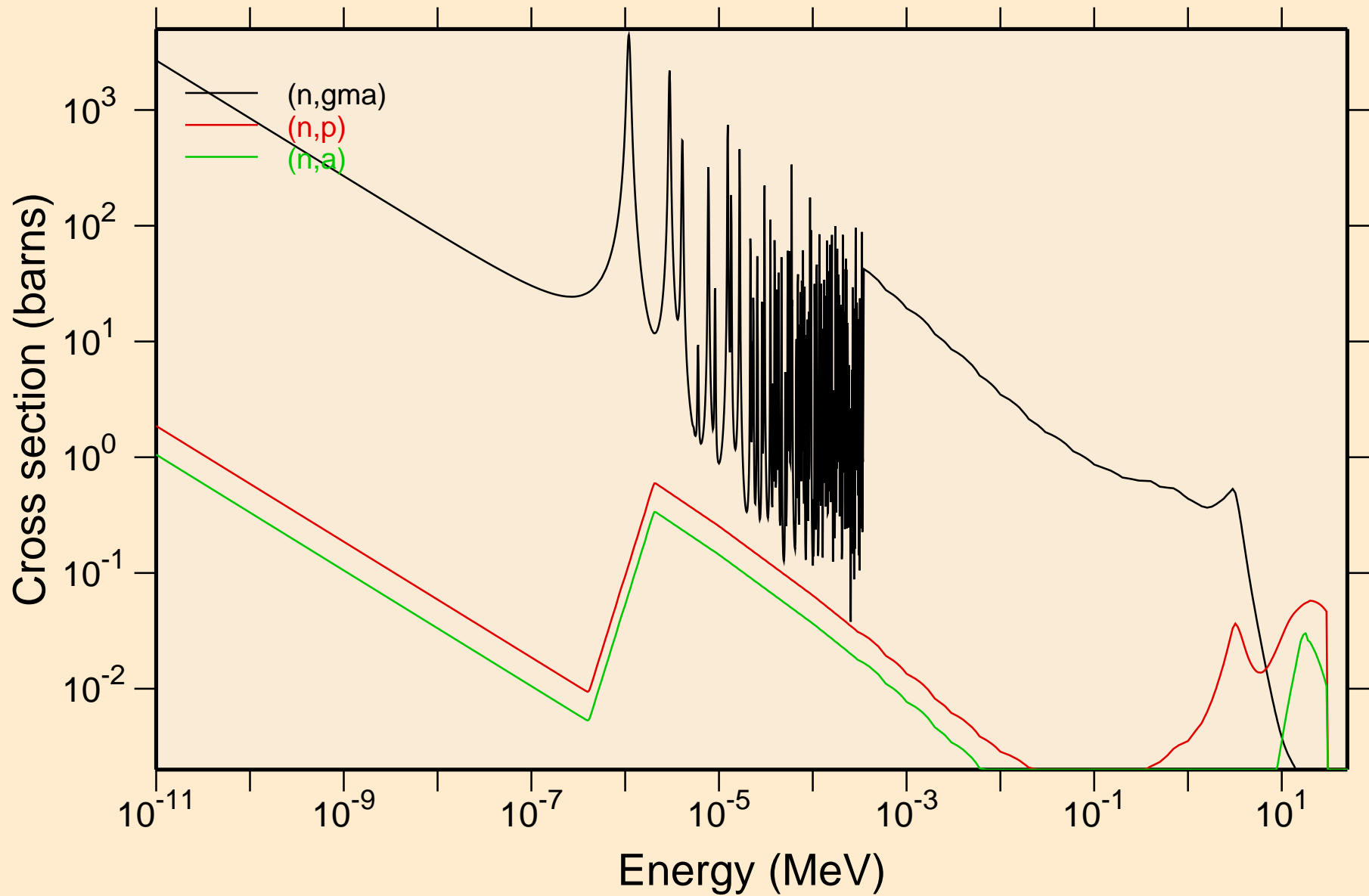


ND139 NRG TENDL-2015, AKONING  
resonance absorption cross sections



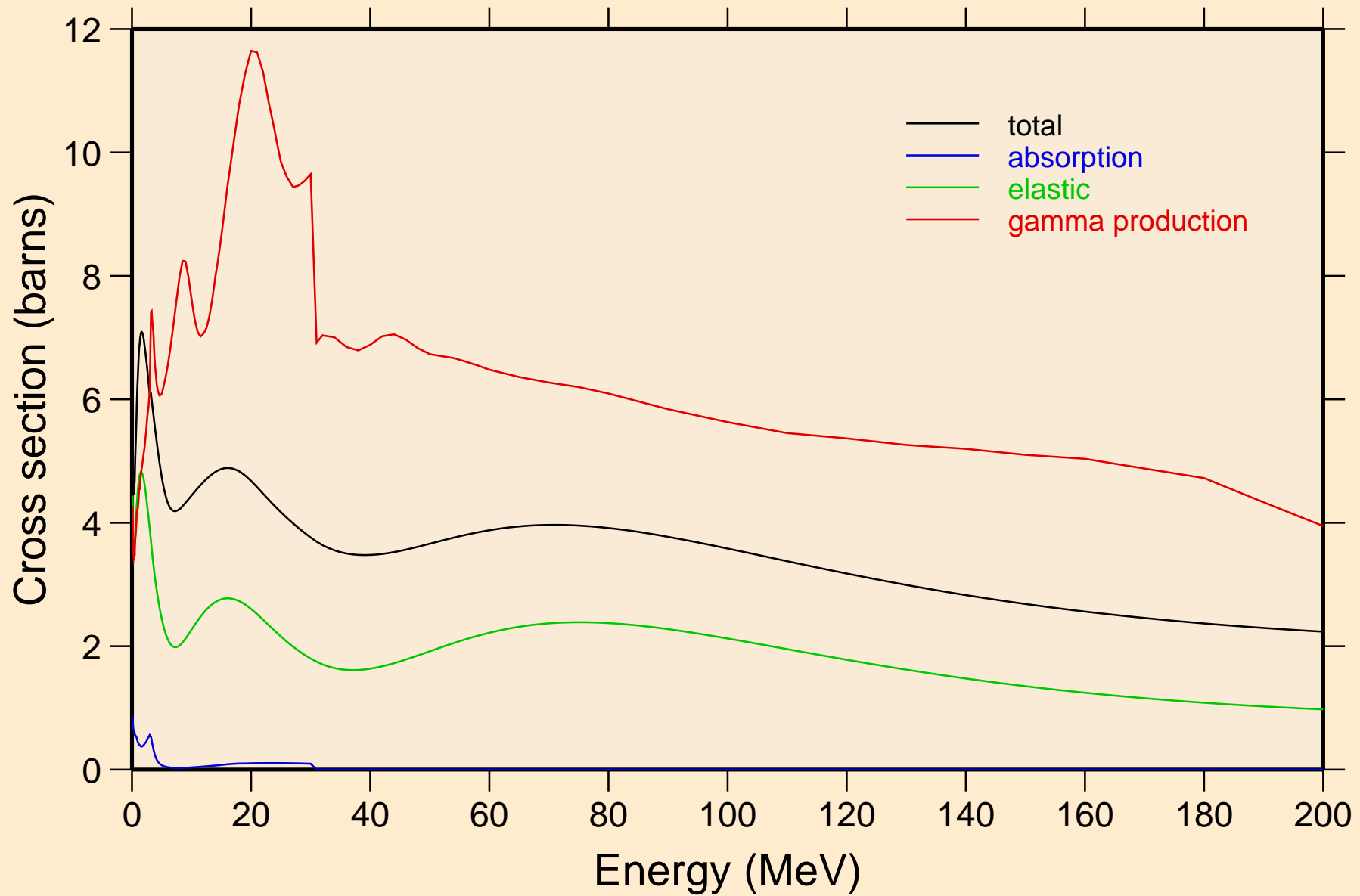
# ND139 NRG TENDL-2015, AKONING

## Non-threshold reactions



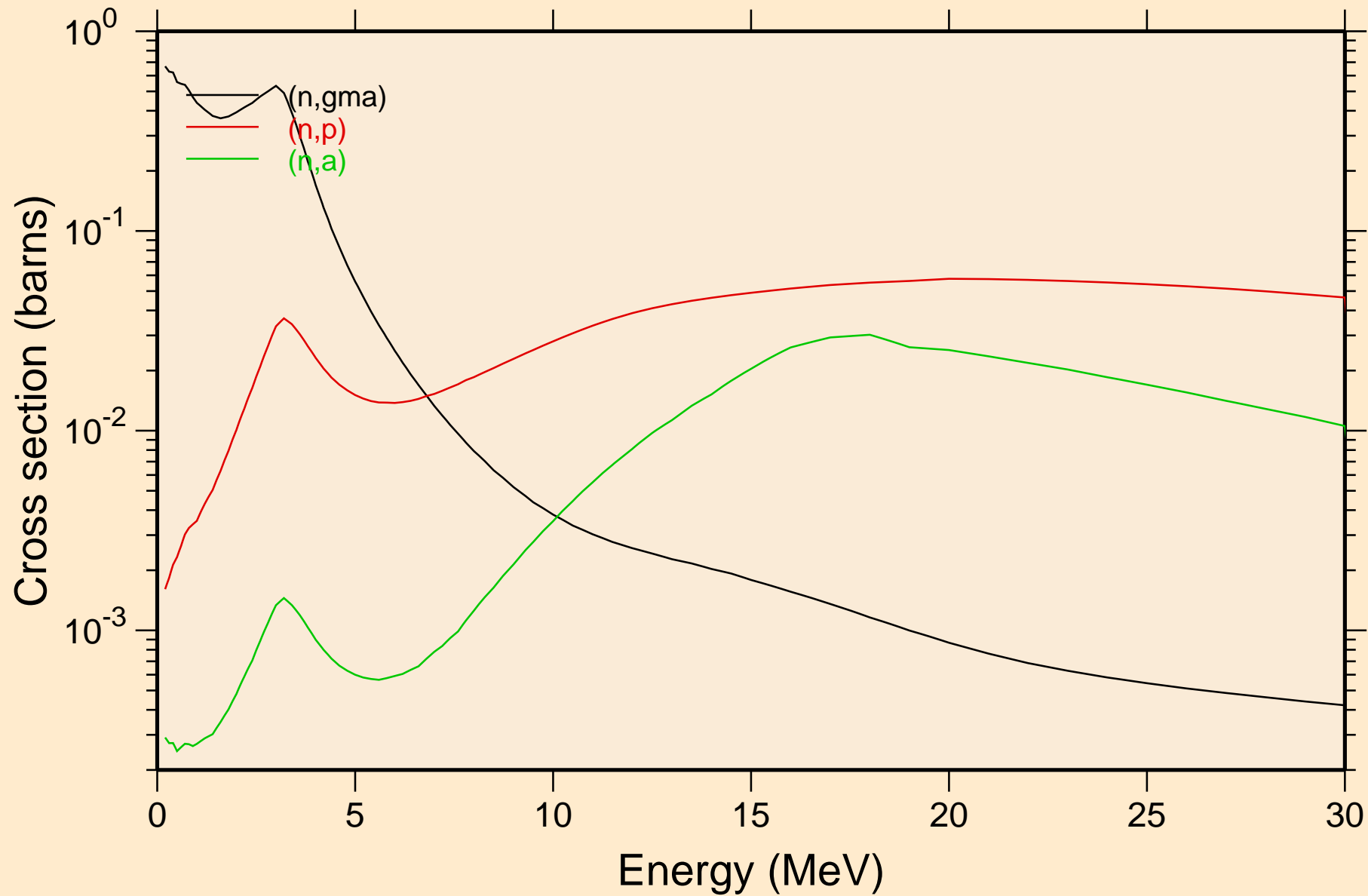
# ND139 NRG TENDL-2015, AKONING

## Principal cross sections



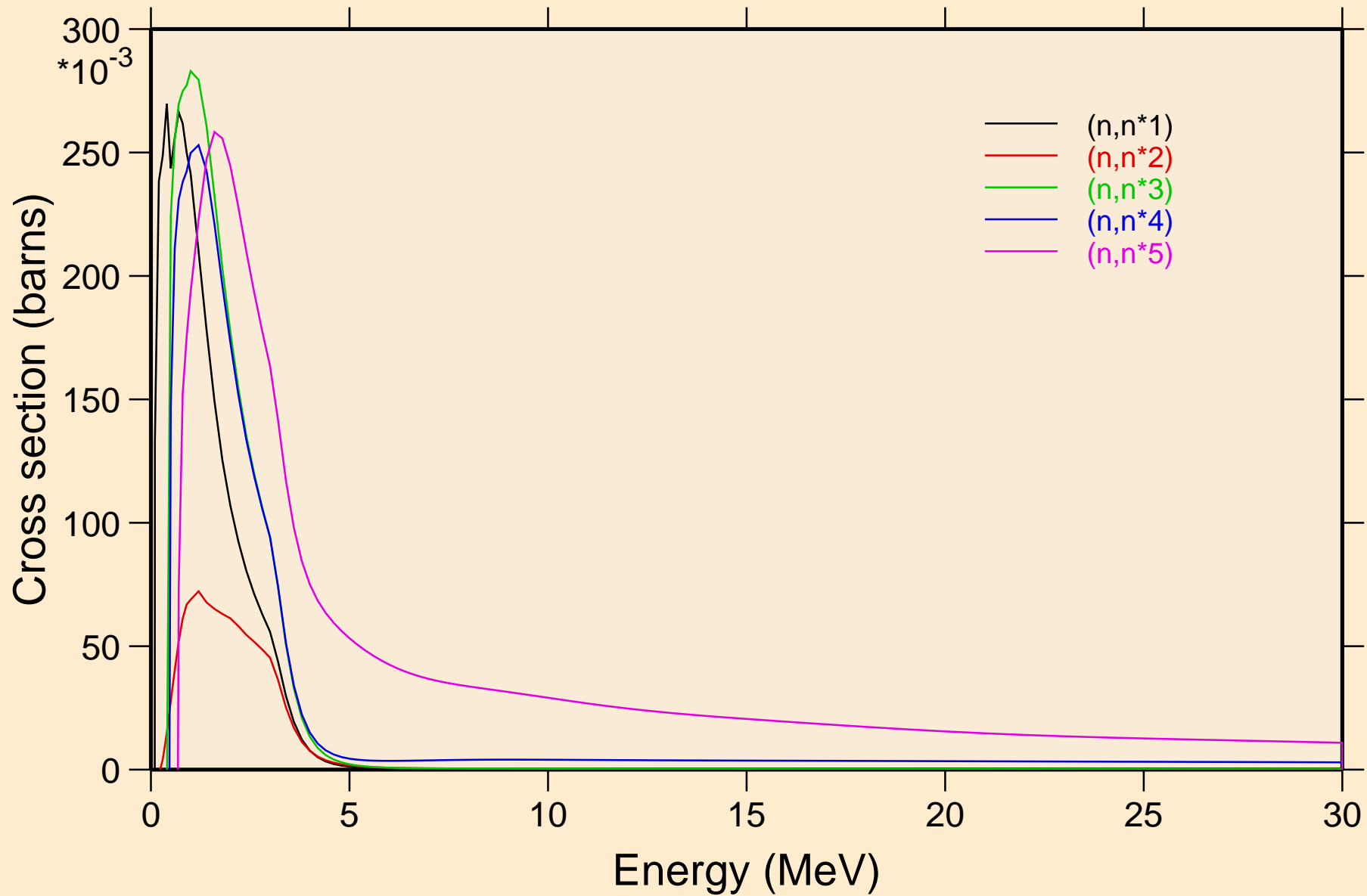
# ND139 NRG TENDL-2015, AKONING

## Non-threshold reactions



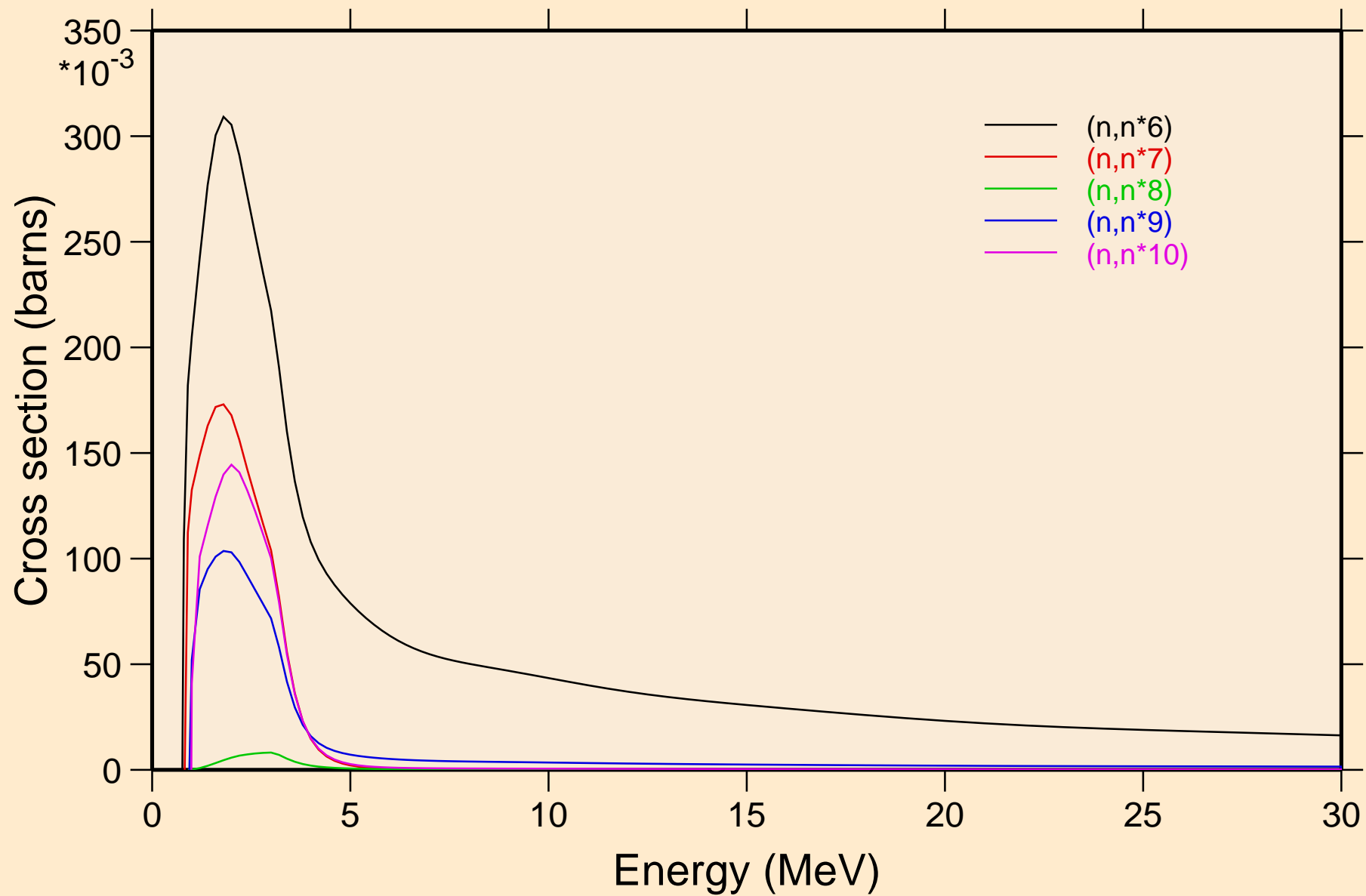
# ND139 NRG TENDL-2015, AKONING

## Inelastic levels



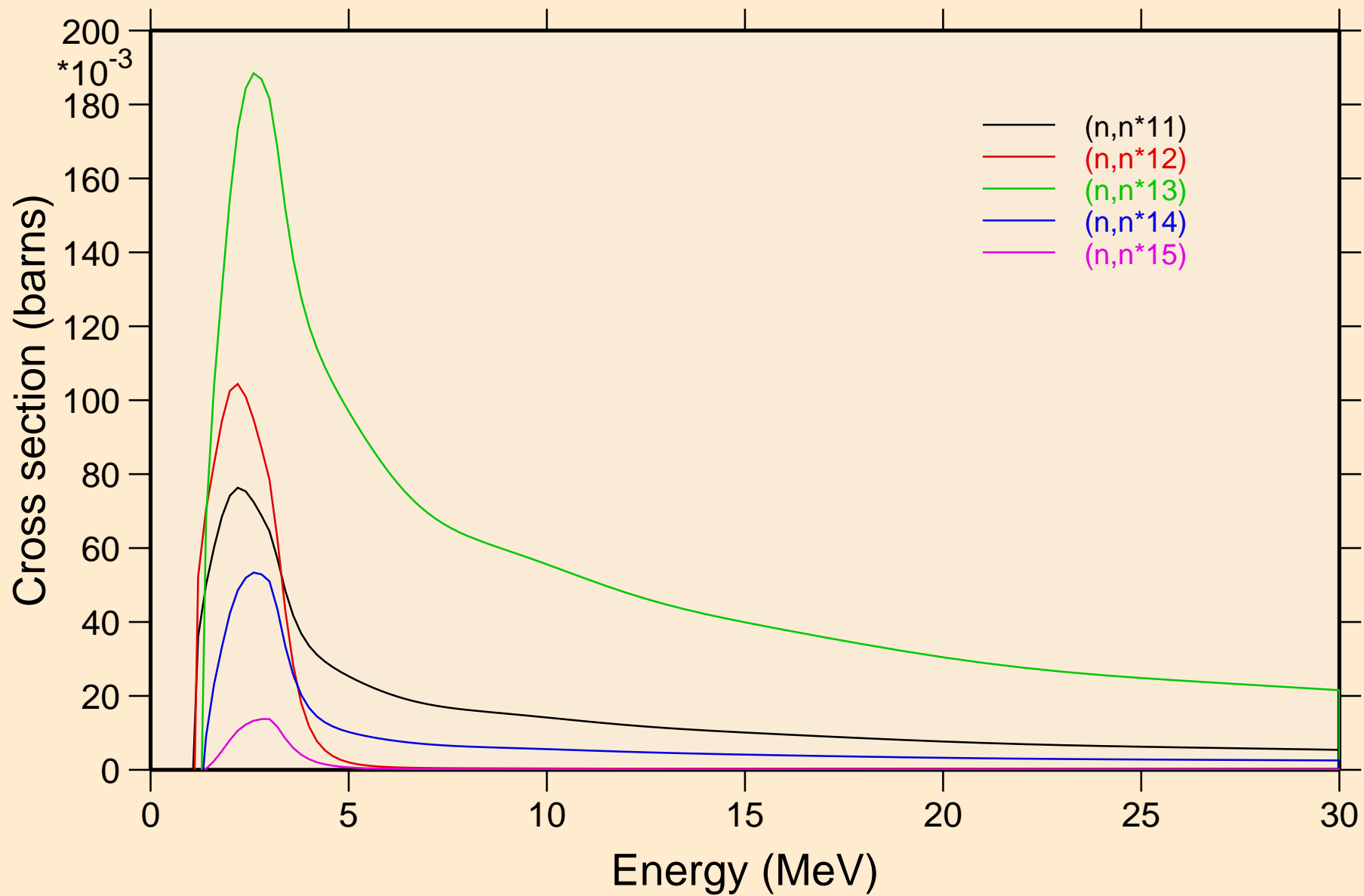
# ND139 NRG TENDL-2015, AKONING

## Inelastic levels



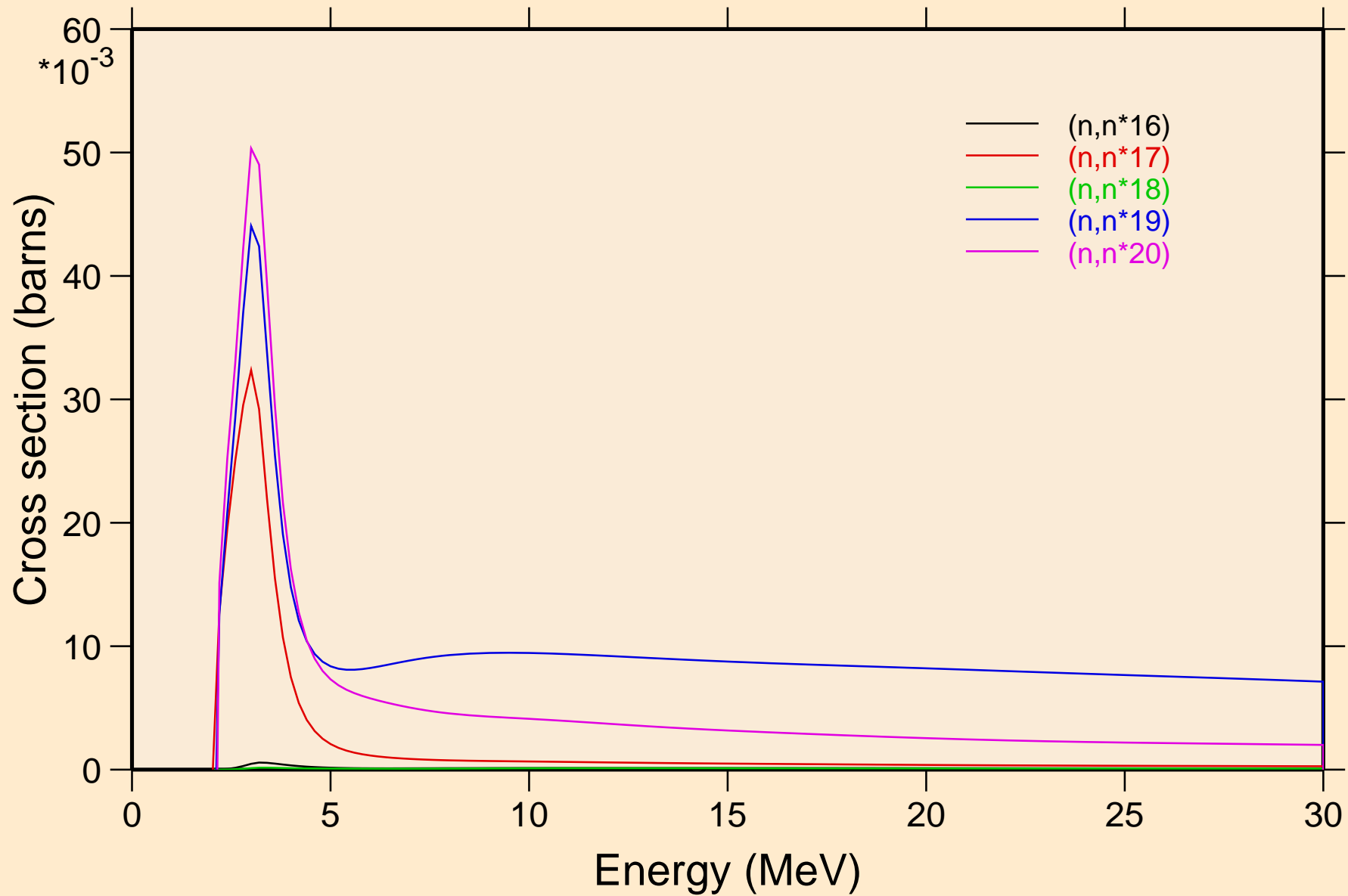
# ND139 NRG TENDL-2015, AKONING

## Inelastic levels



# ND139 NRG TENDL-2015, AKONING

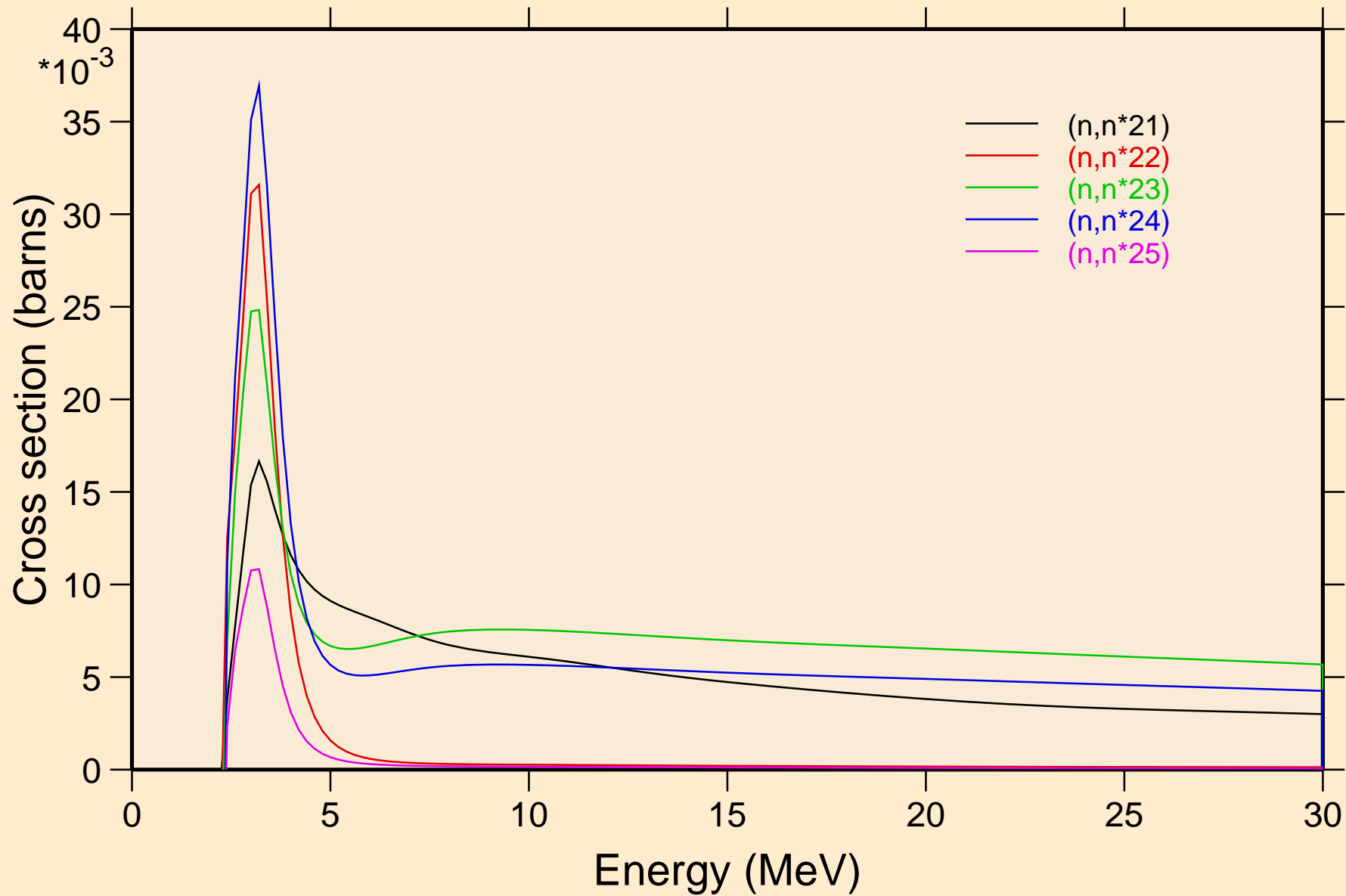
## Inelastic levels





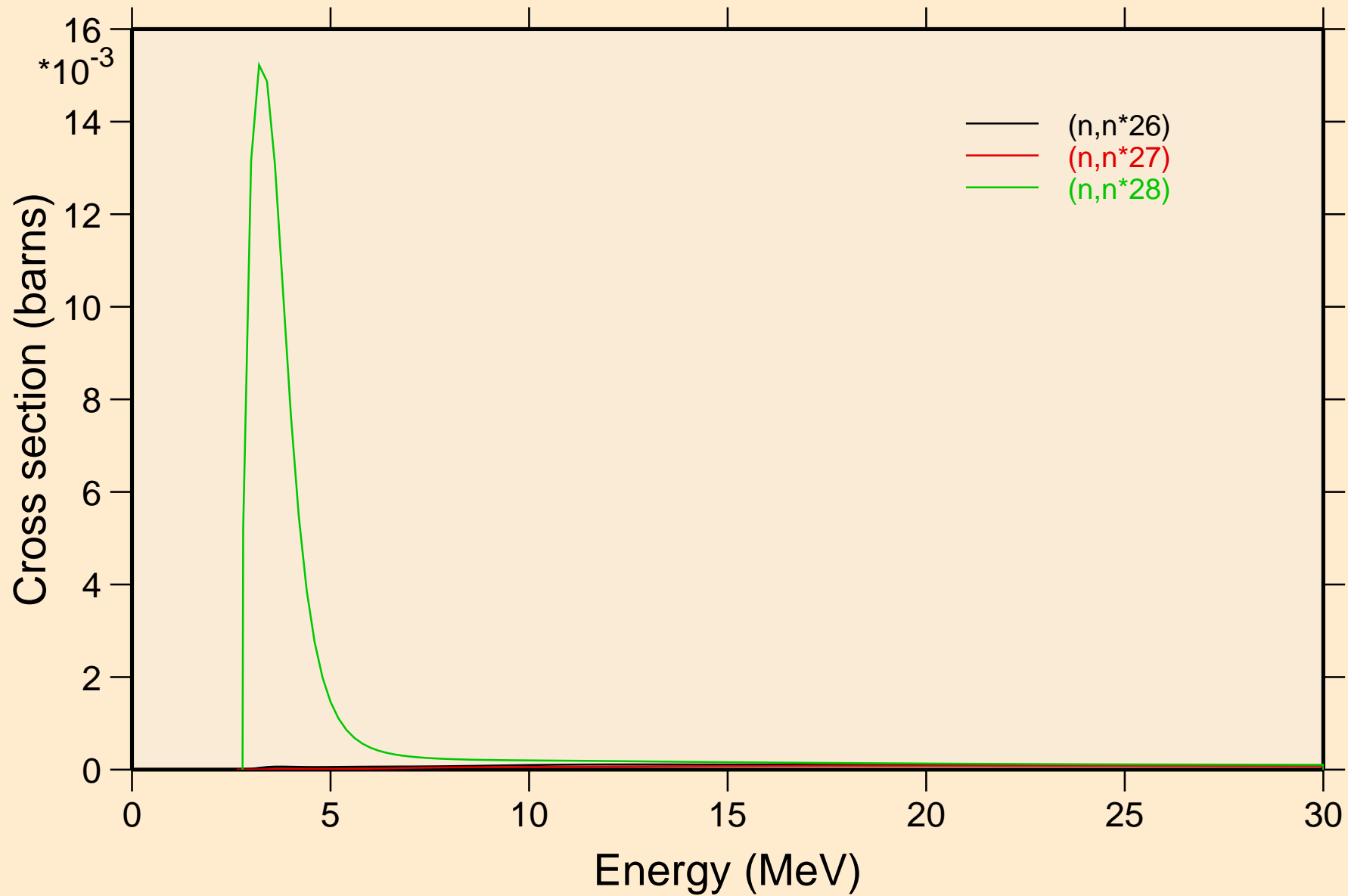
# ND139 NRG TENDL-2015, AKONING

## Inelastic levels



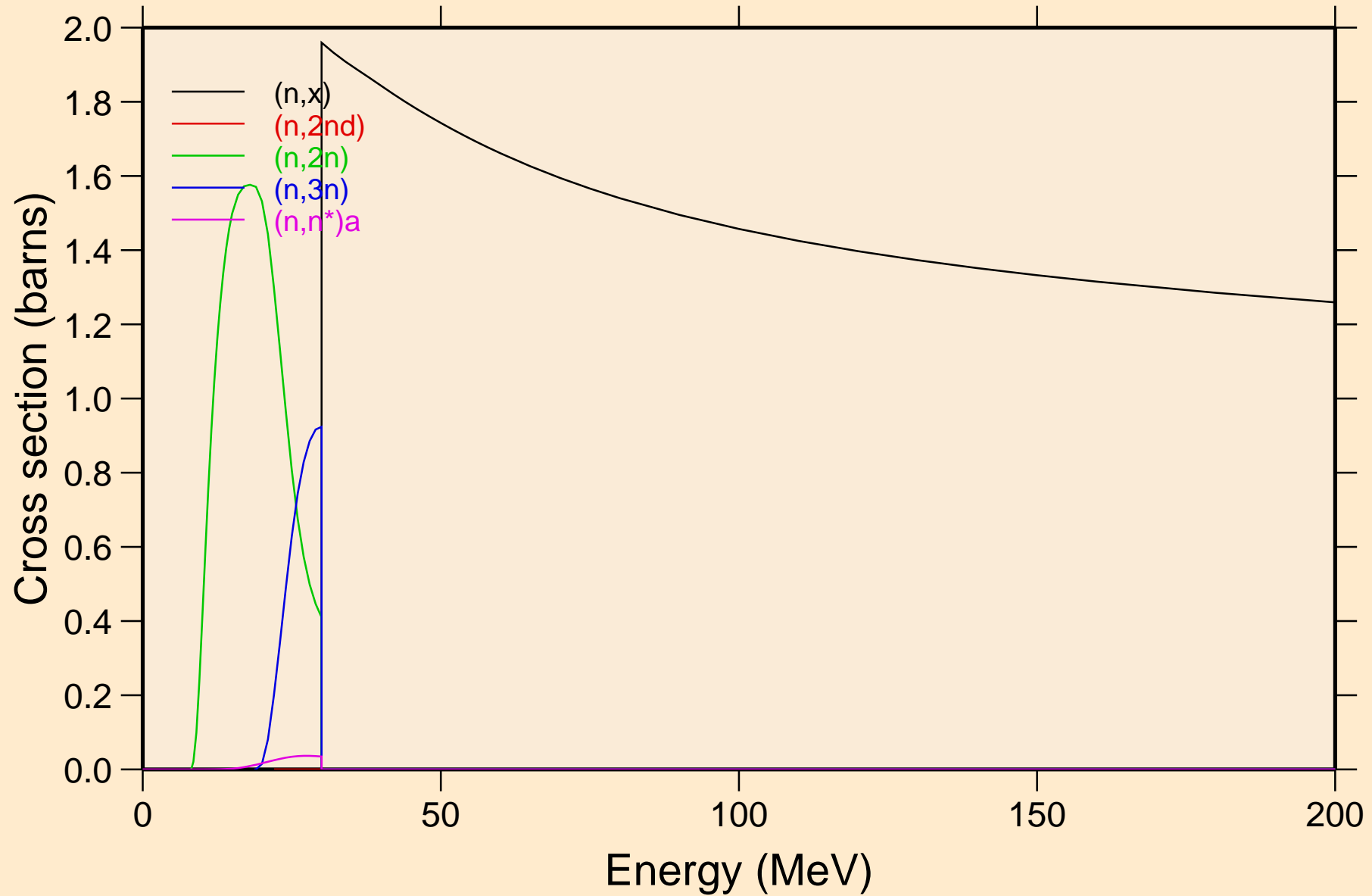
# ND139 NRG TENDL-2015, AKONING

## Inelastic levels



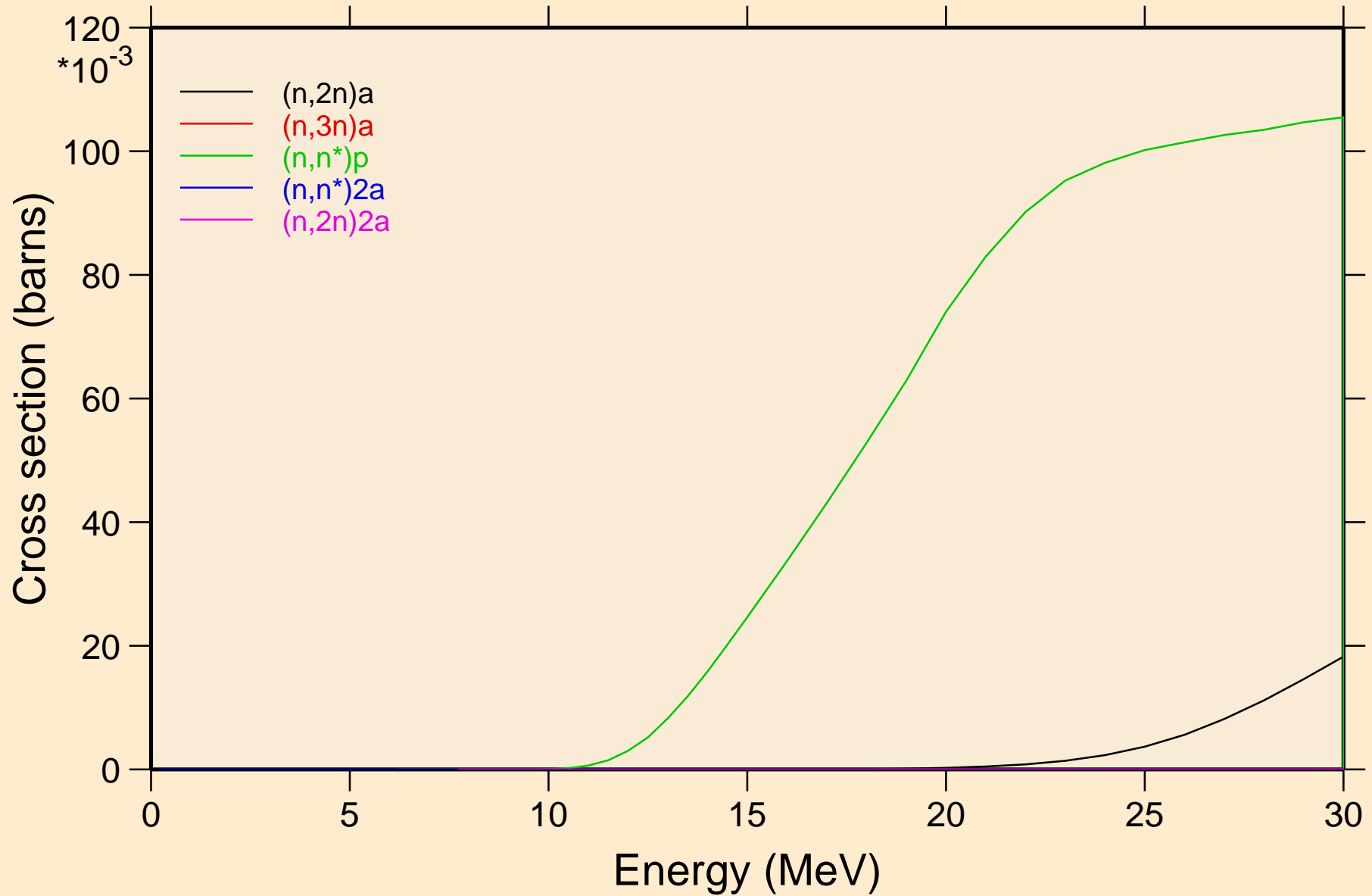
# ND139 NRG TENDL-2015, AKONING

## Threshold reactions



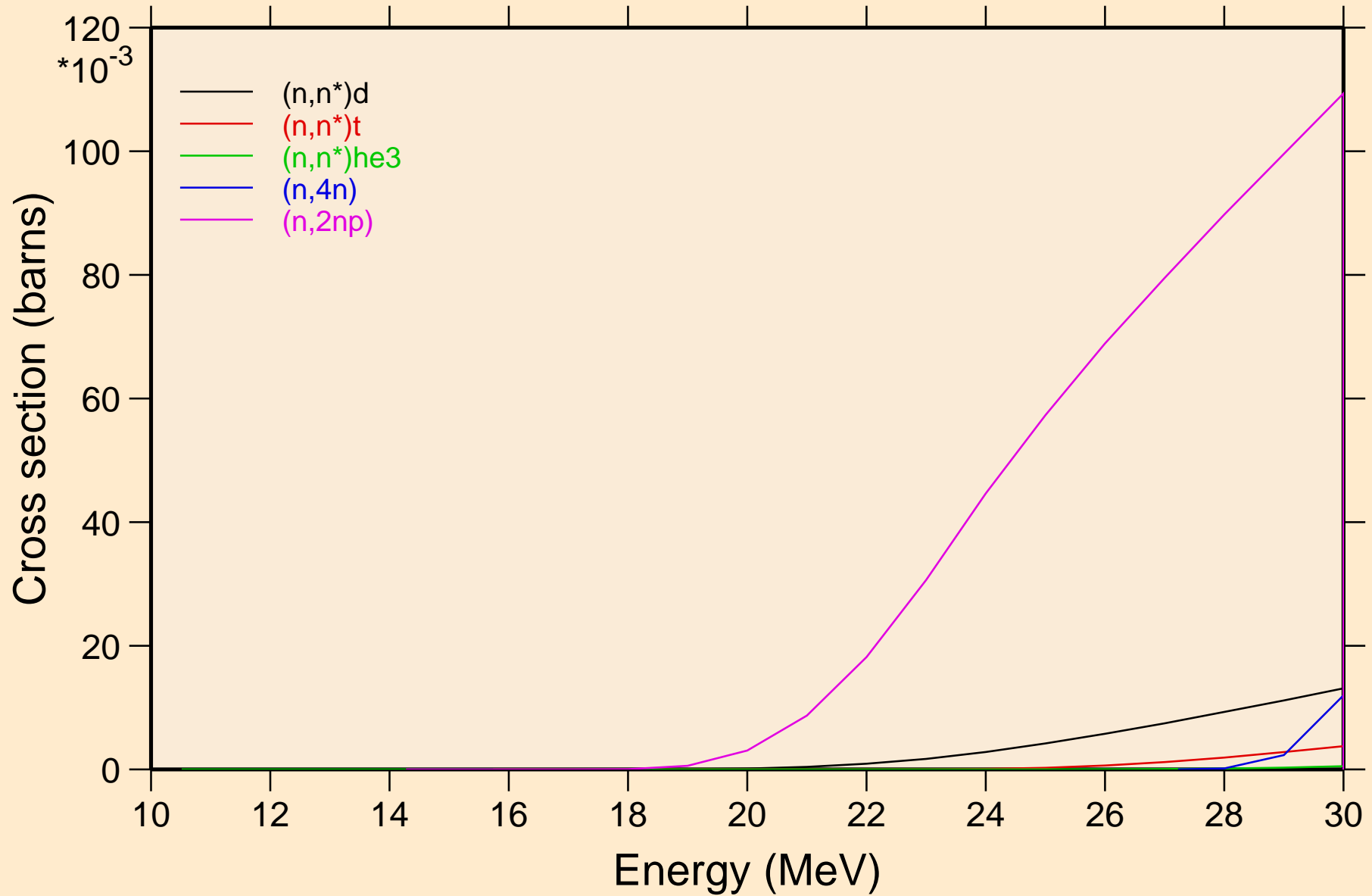
# ND139 NRG TENDL-2015, AKONING

## Threshold reactions



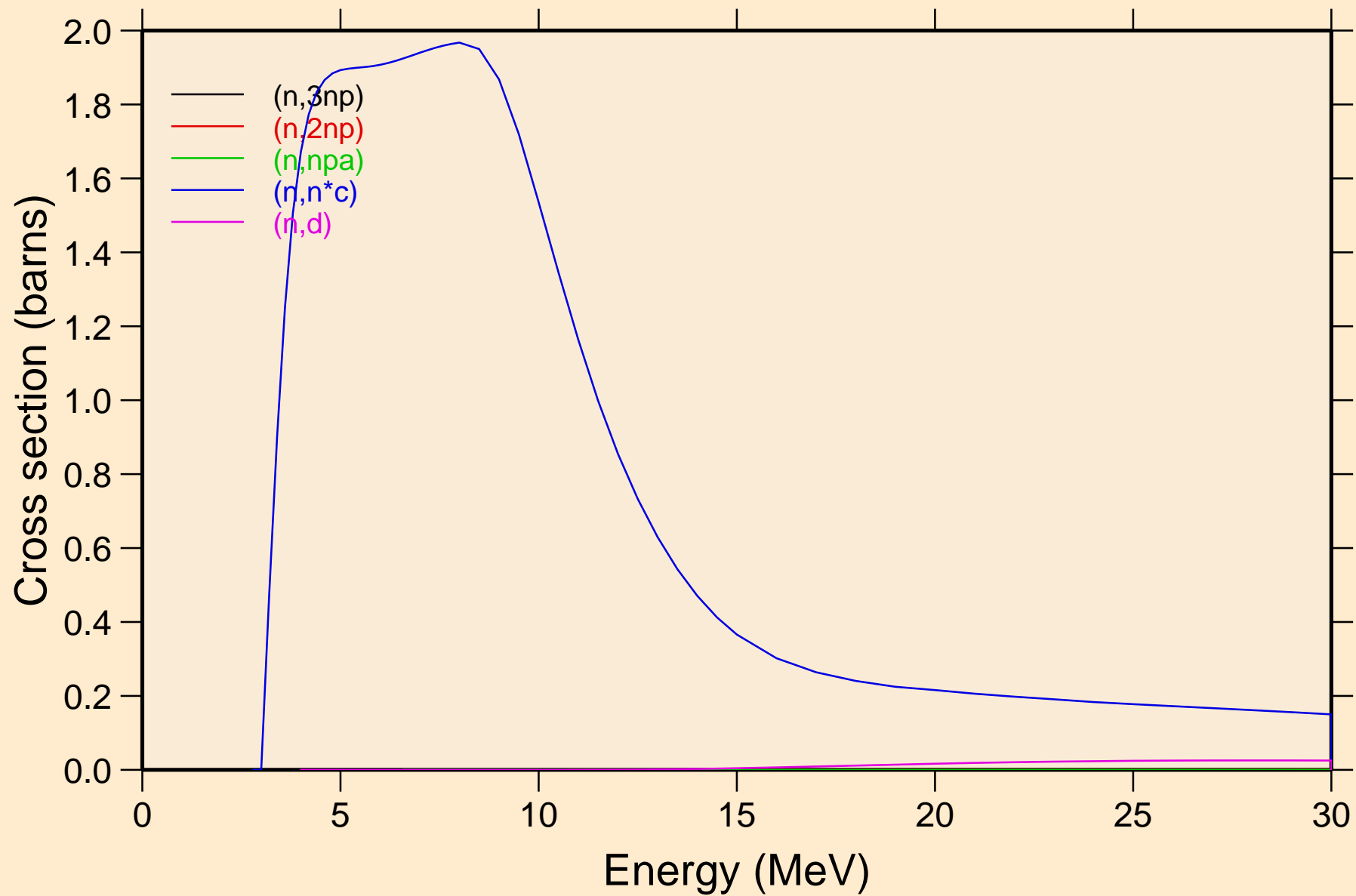
# ND139 NRG TENDL-2015, AKONING

## Threshold reactions



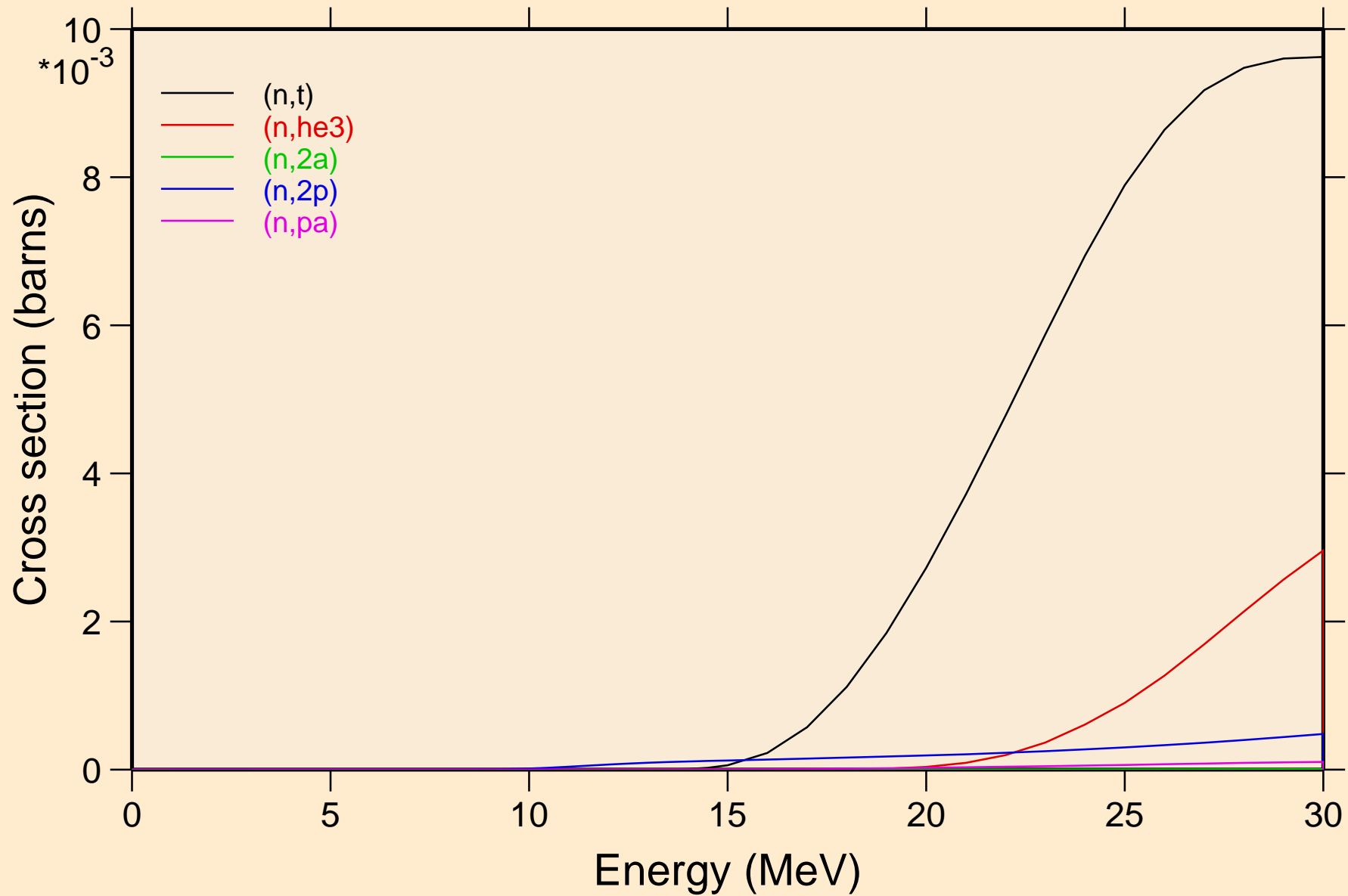
# ND139 NRG TENDL-2015, AKONING

## Threshold reactions



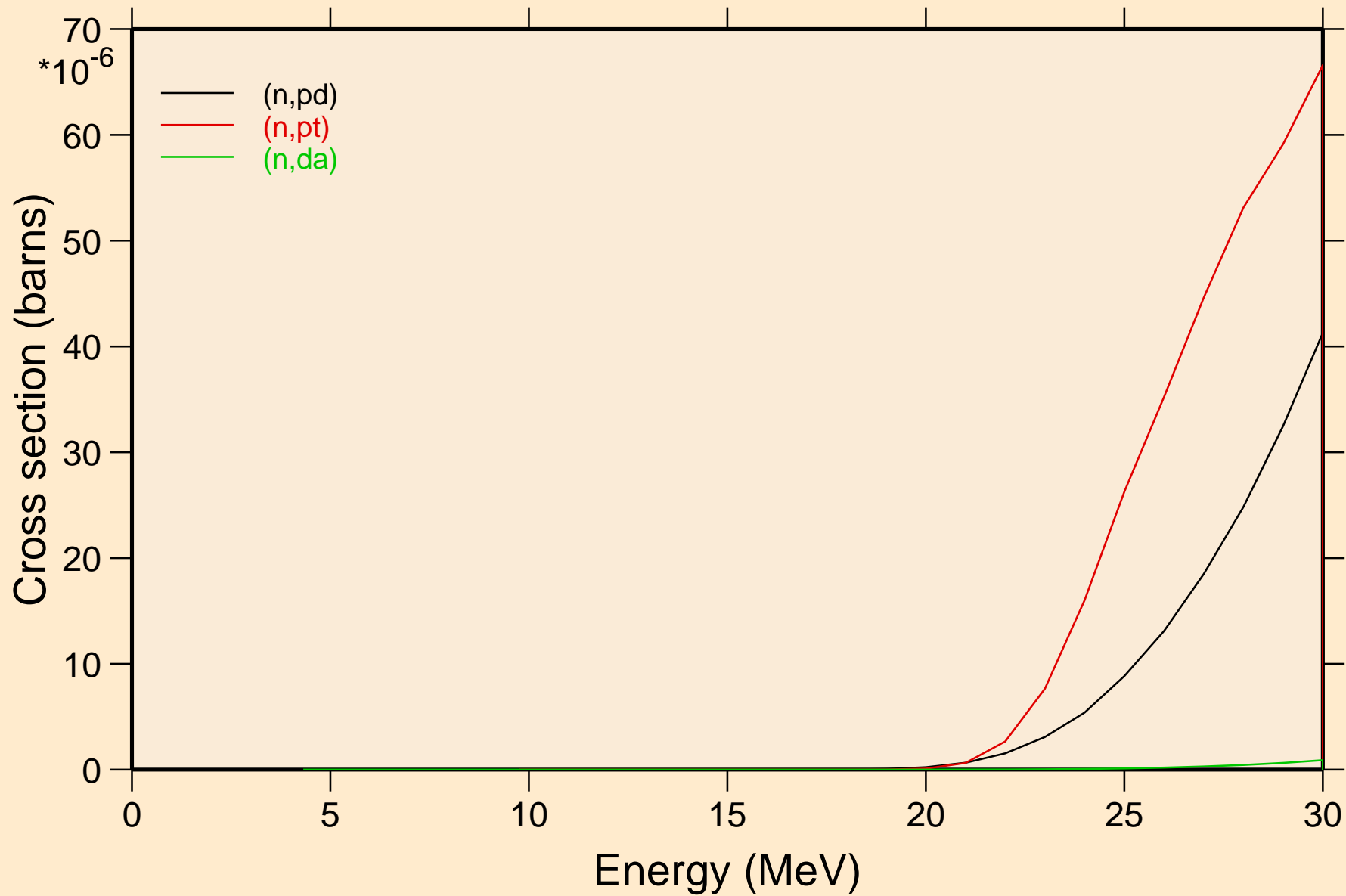
# ND139 NRG TENDL-2015, AKONING

## Threshold reactions



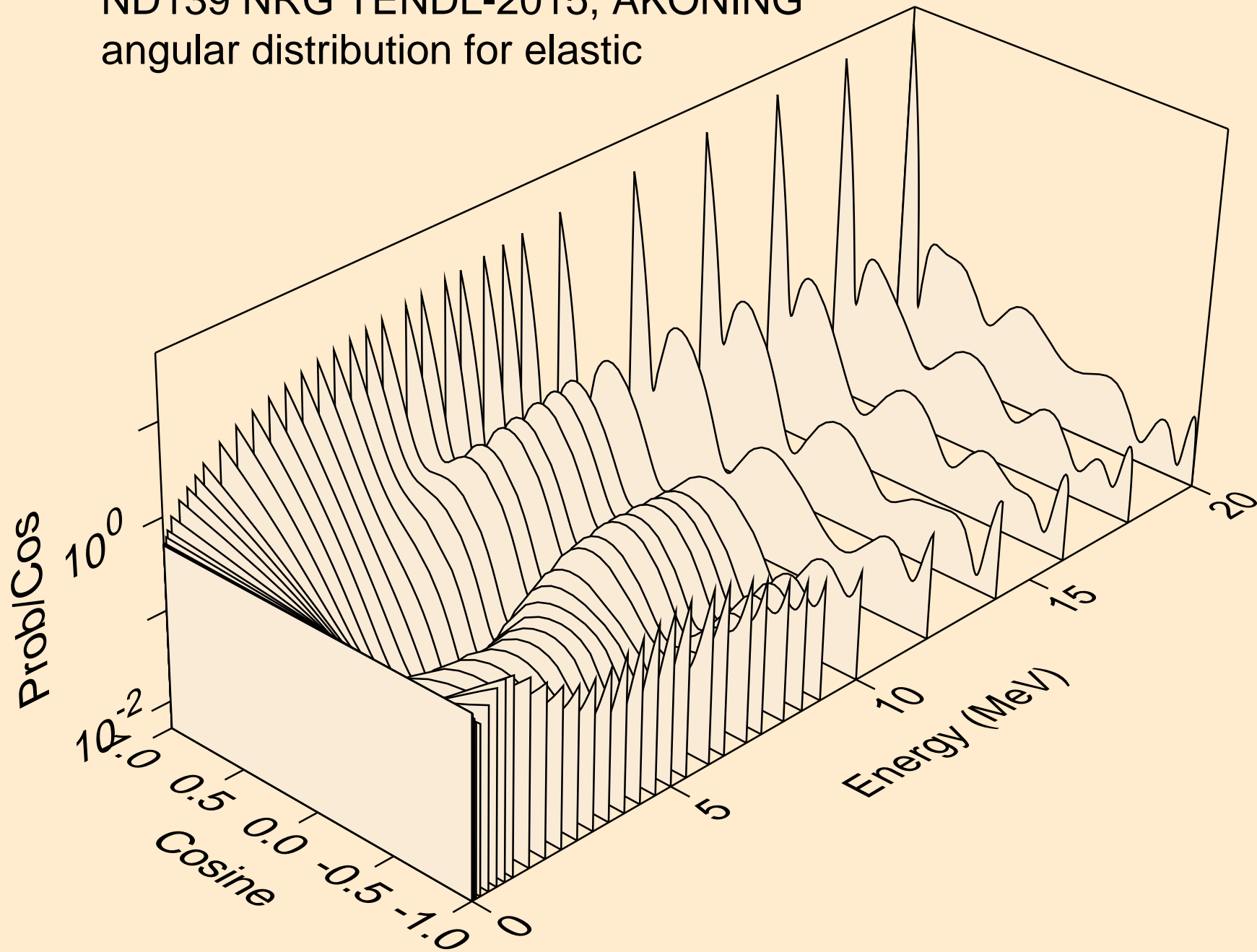
# ND139 NRG TENDL-2015, AKONING

## Threshold reactions

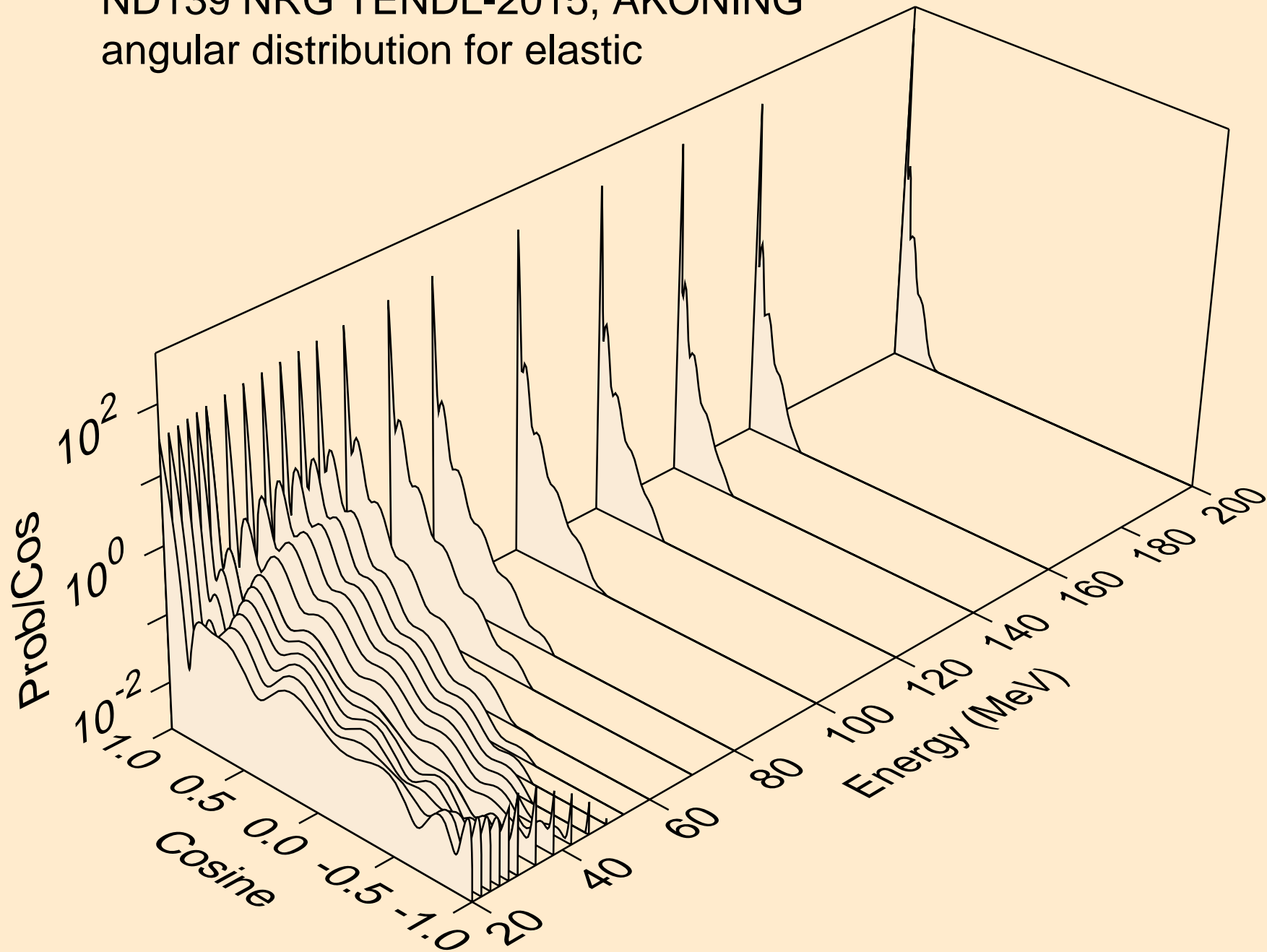




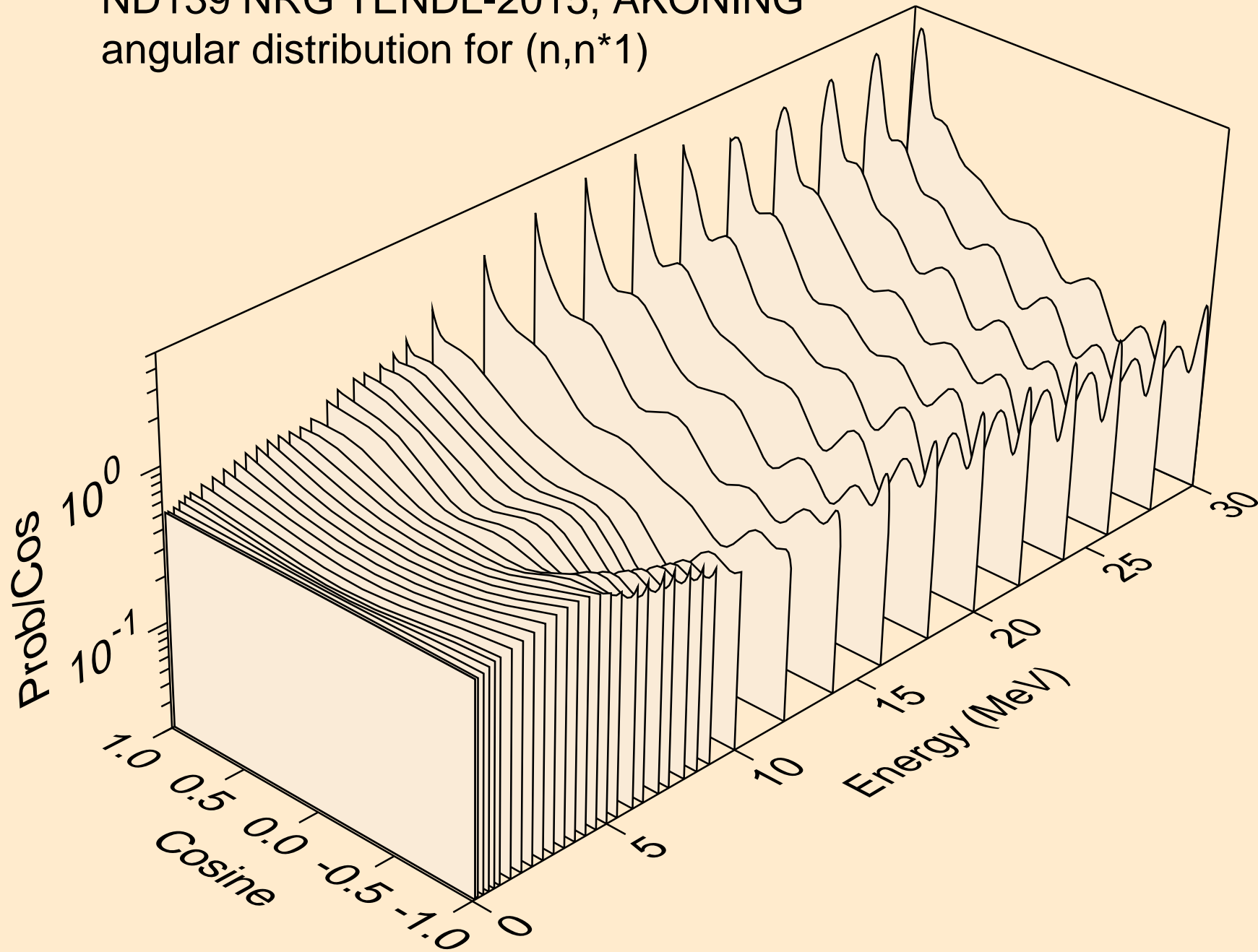
ND139 NRG TENDL-2015, AKONING  
angular distribution for elastic



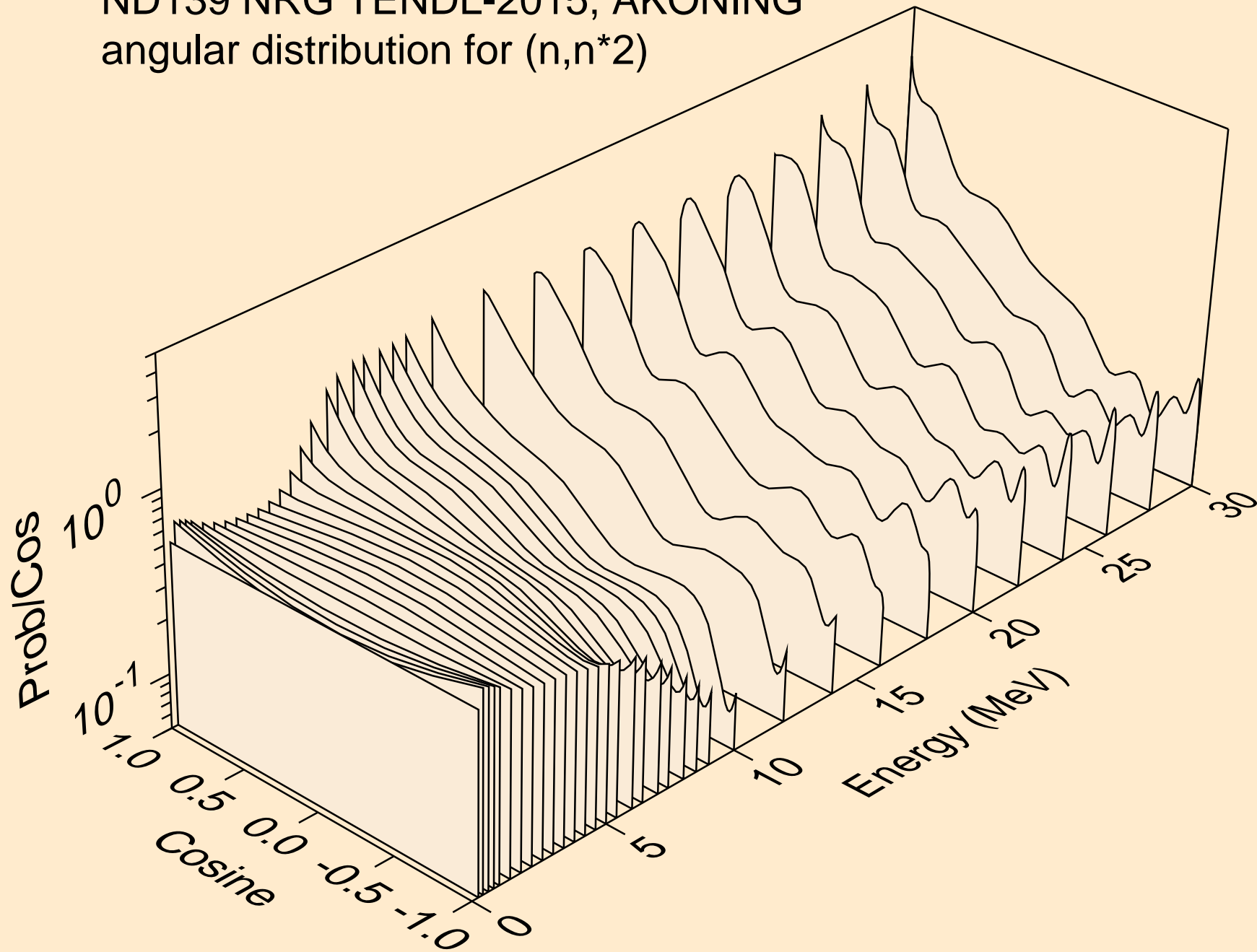
ND139 NRG TENDL-2015, AKONING  
angular distribution for elastic



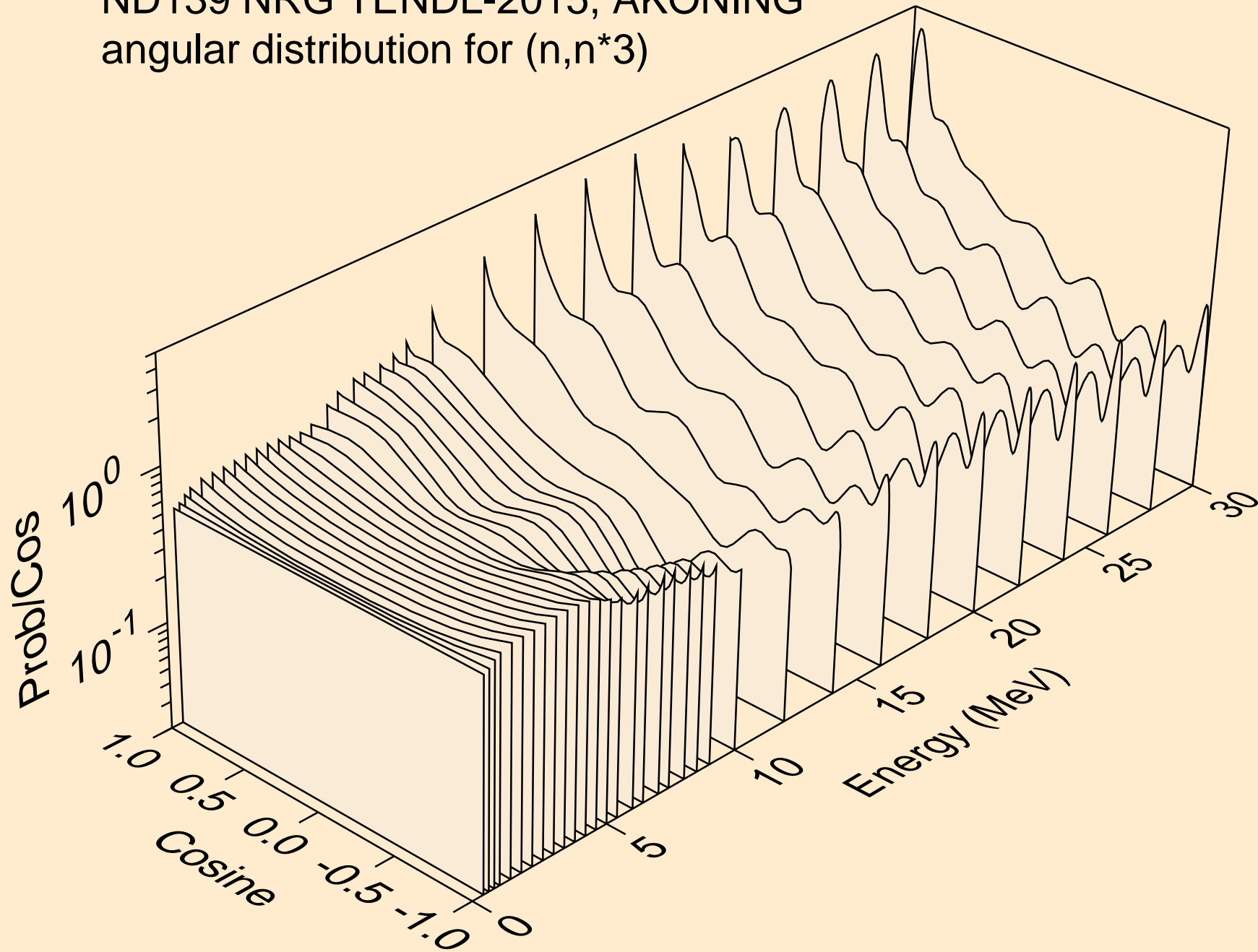
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*1)



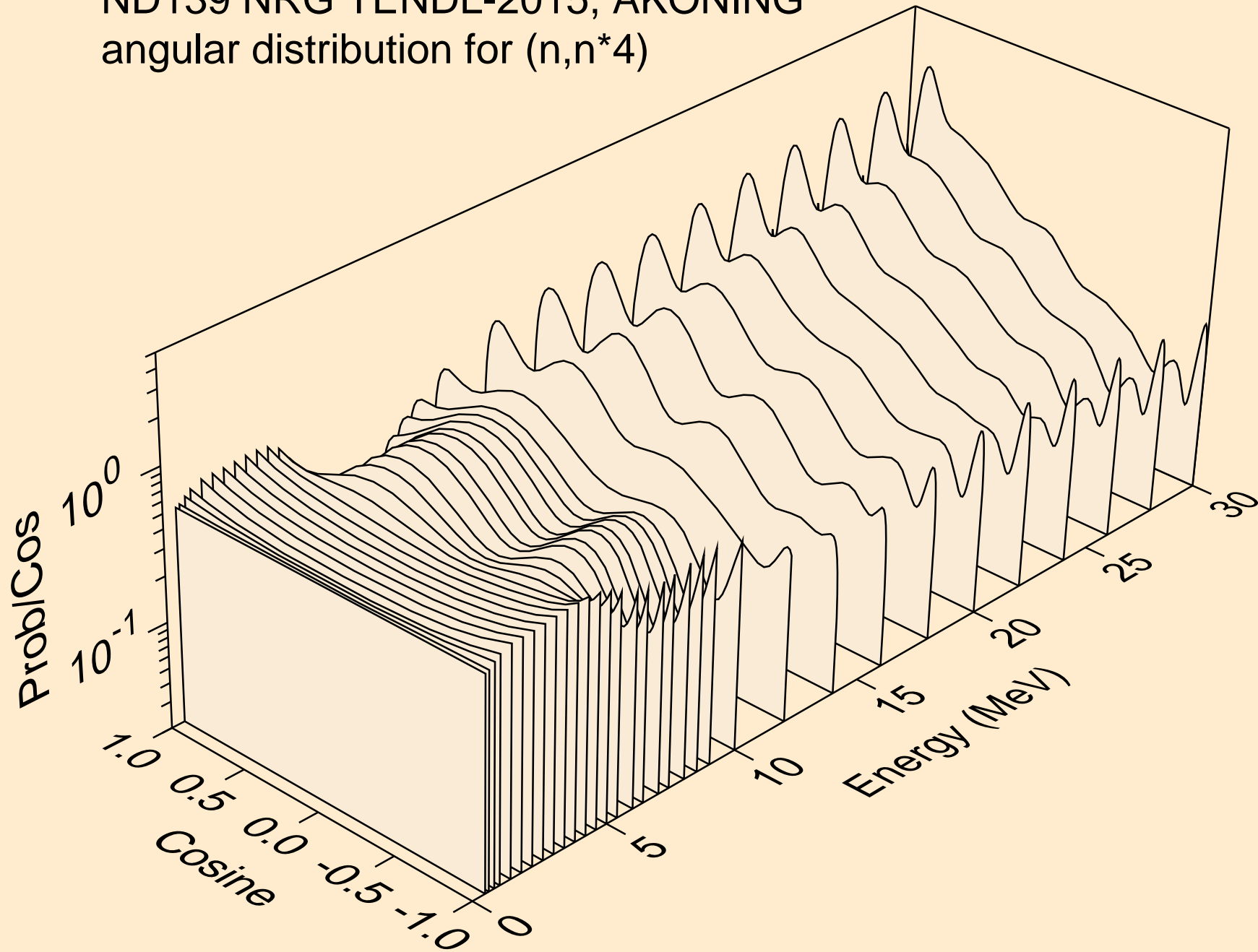
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*2)



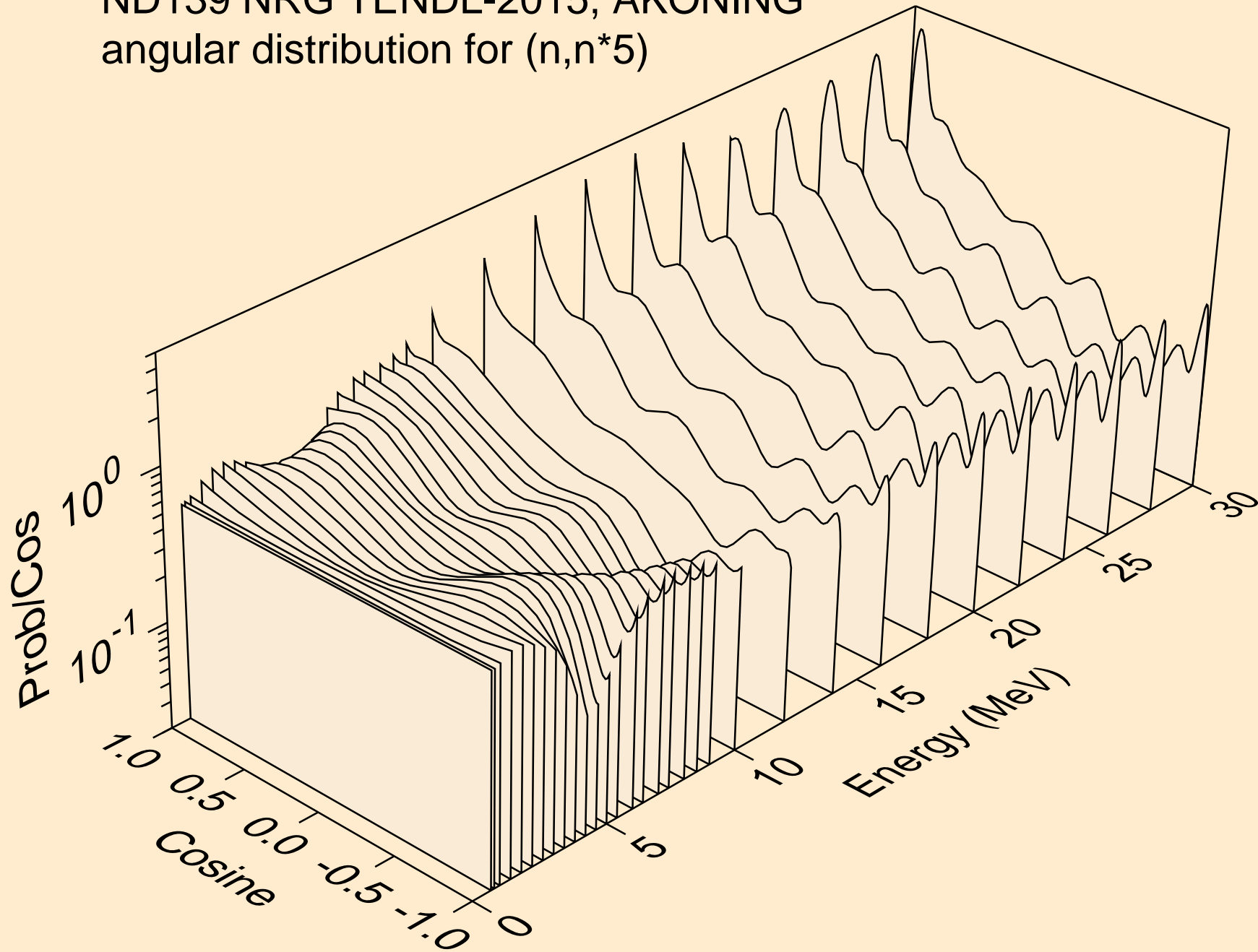
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*3)



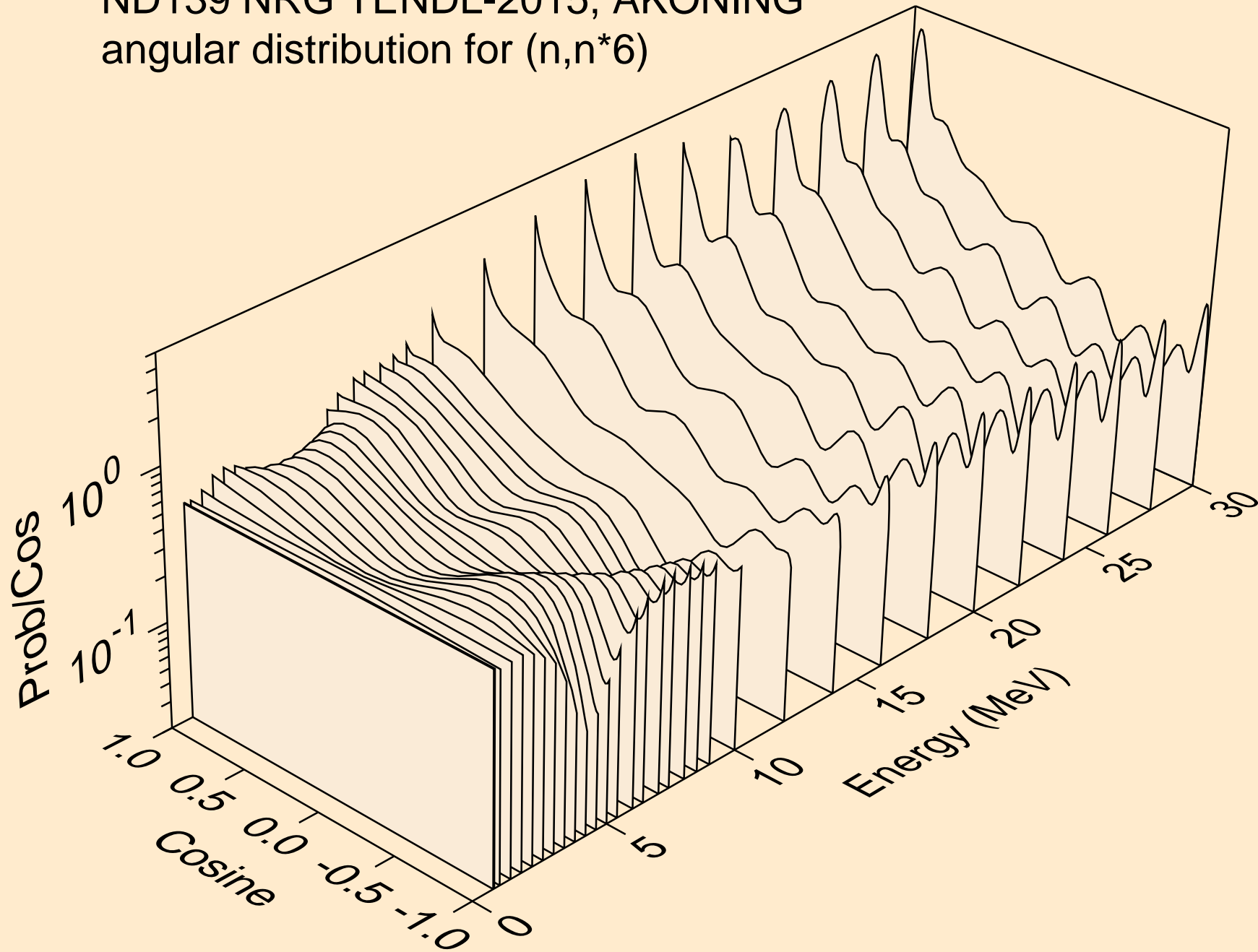
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*4)



ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*5)

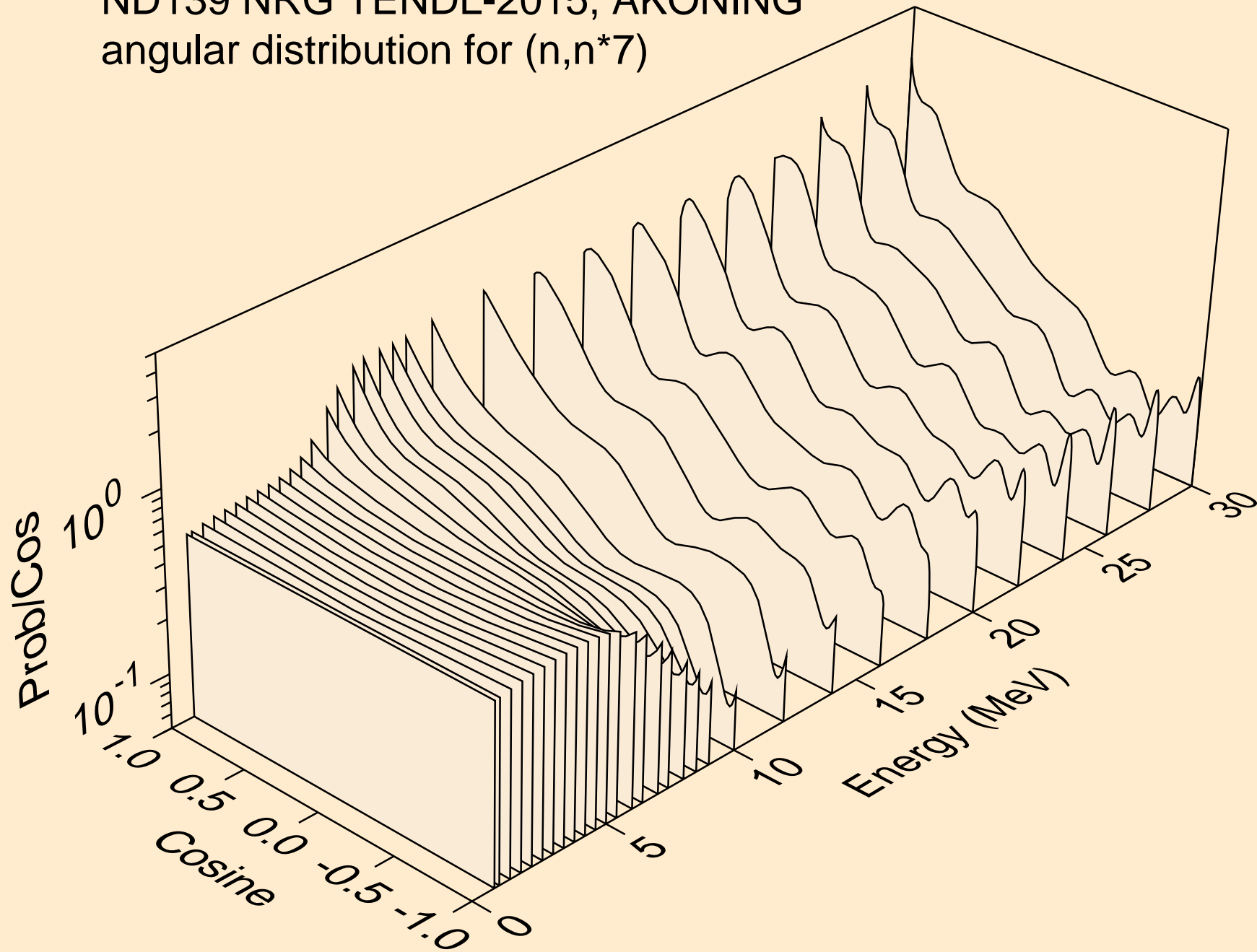


ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*6)

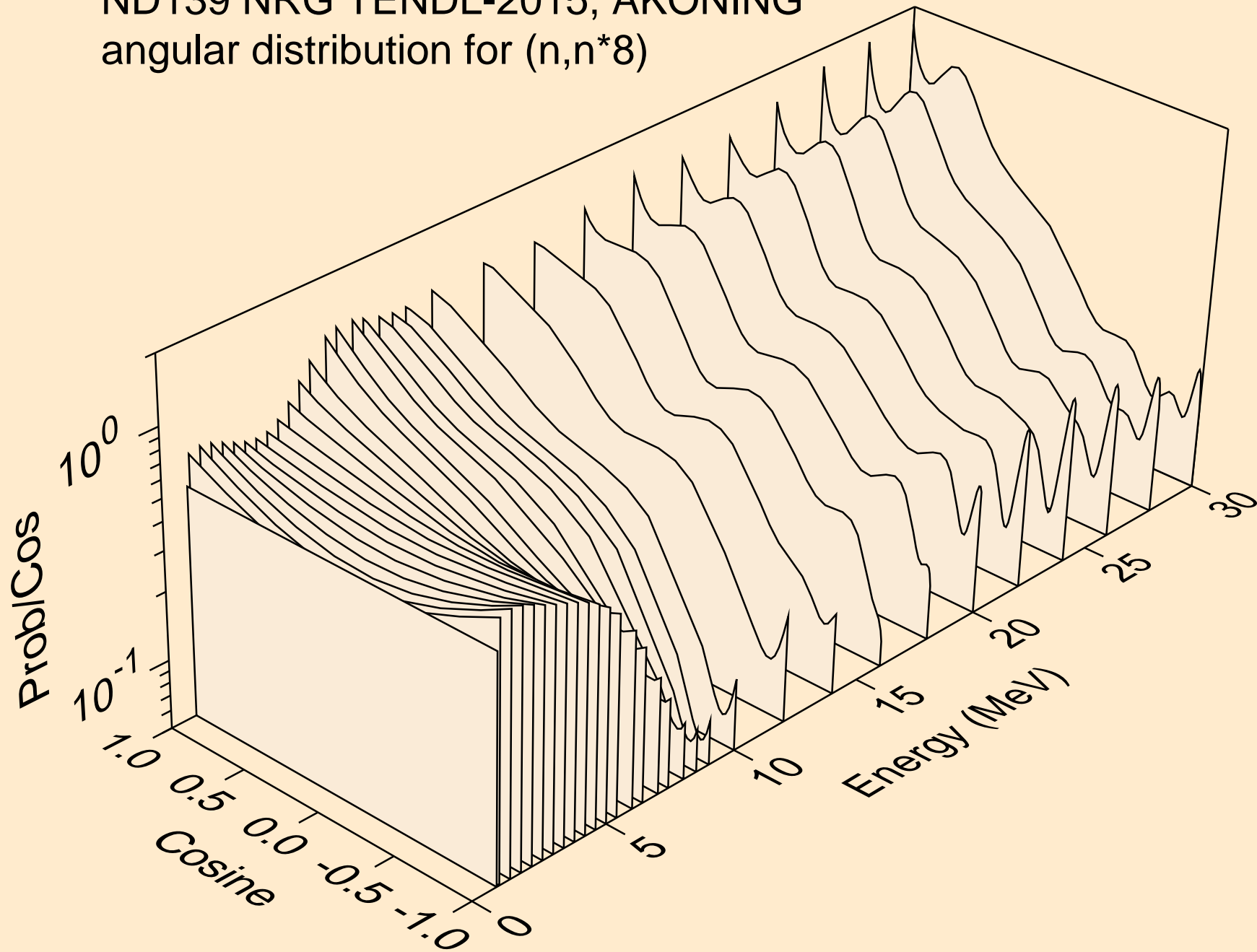




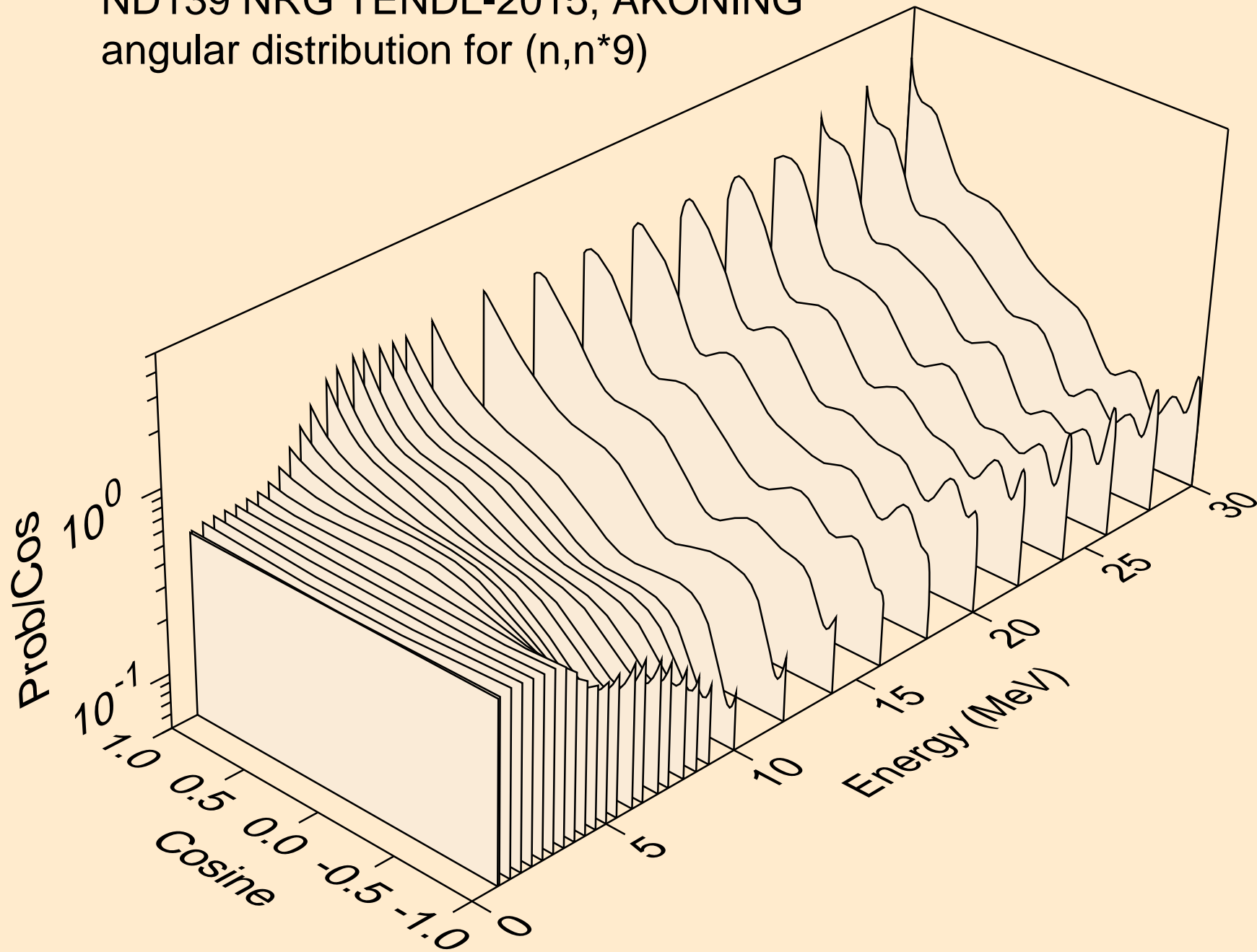
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*7)



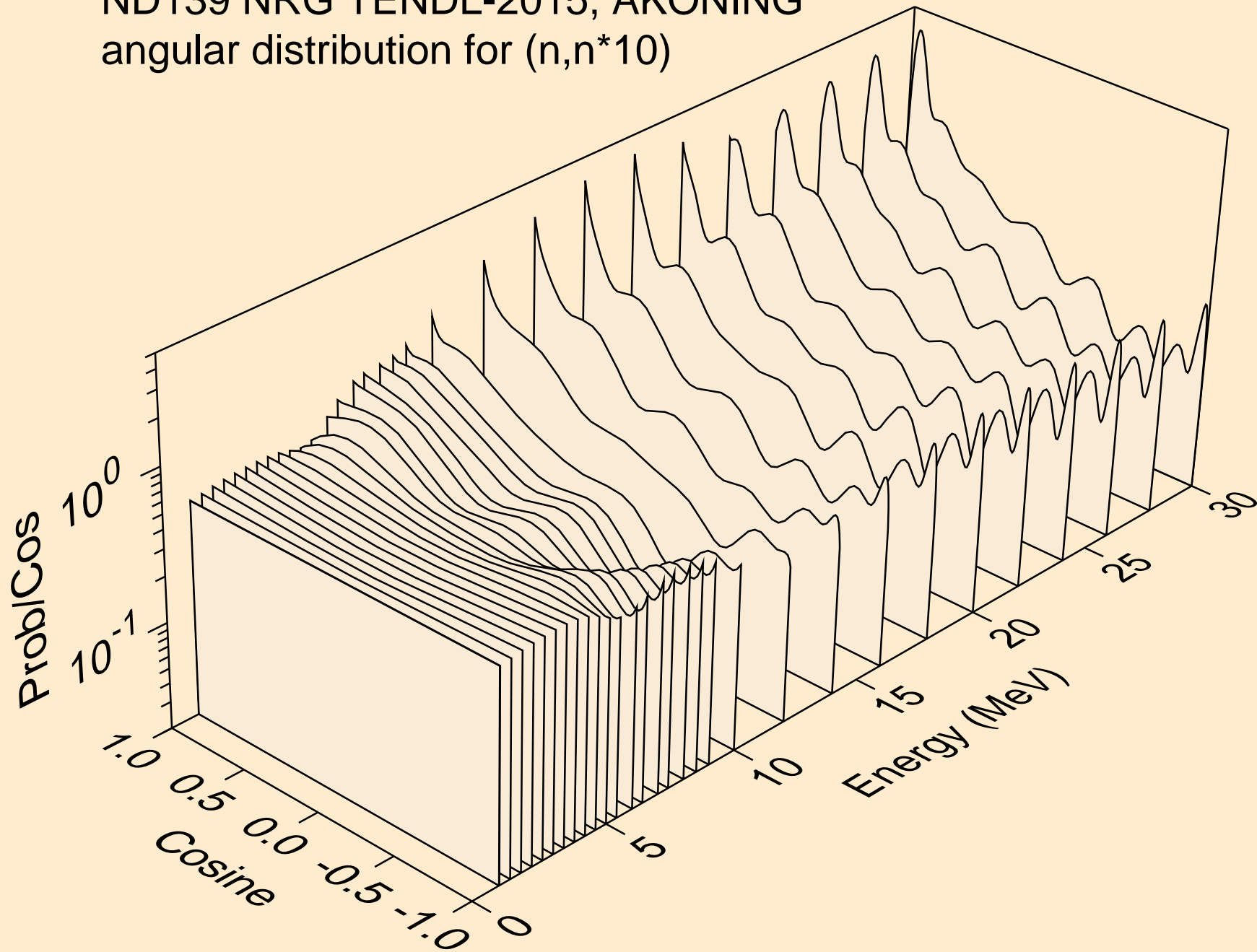
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*8)



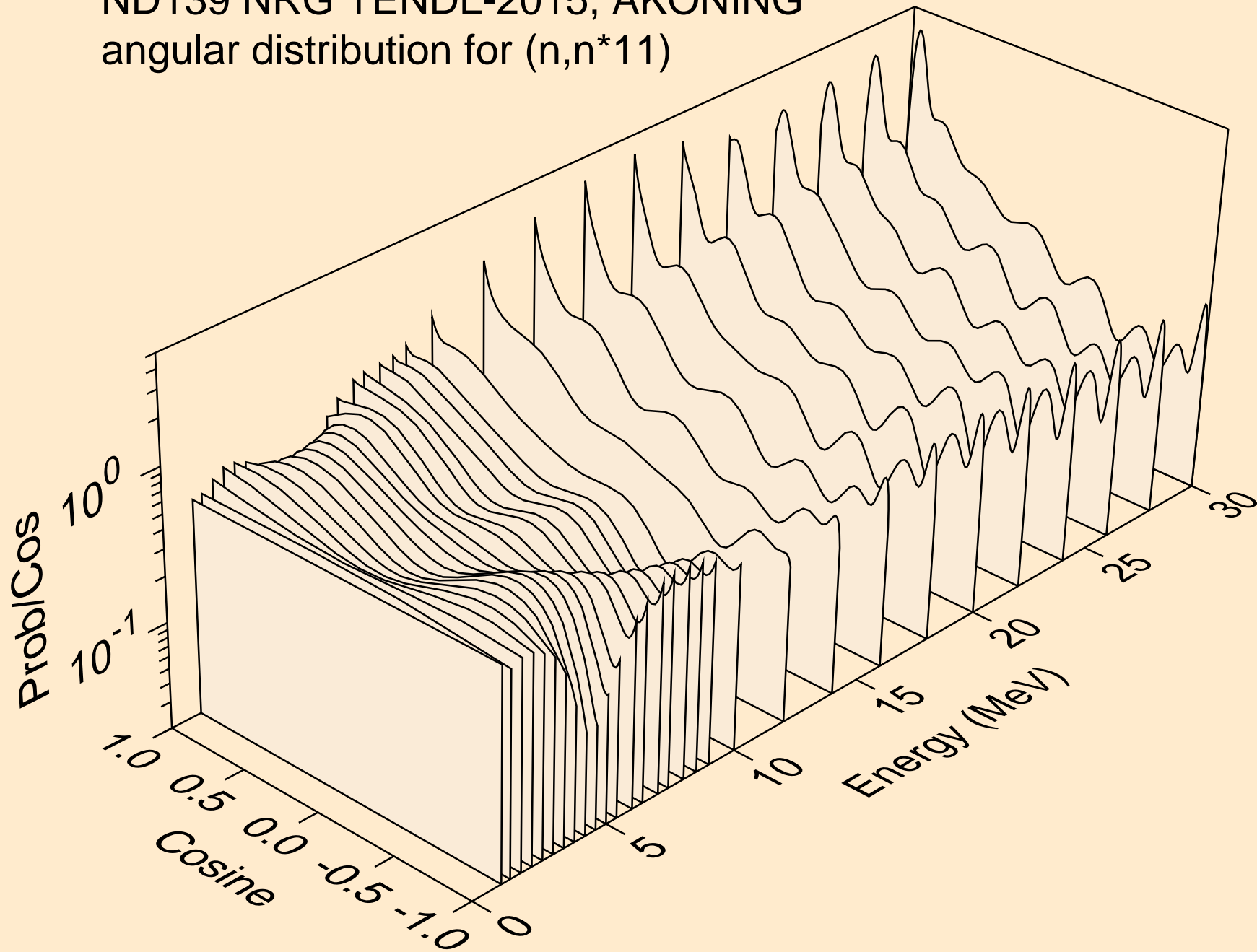
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*9)



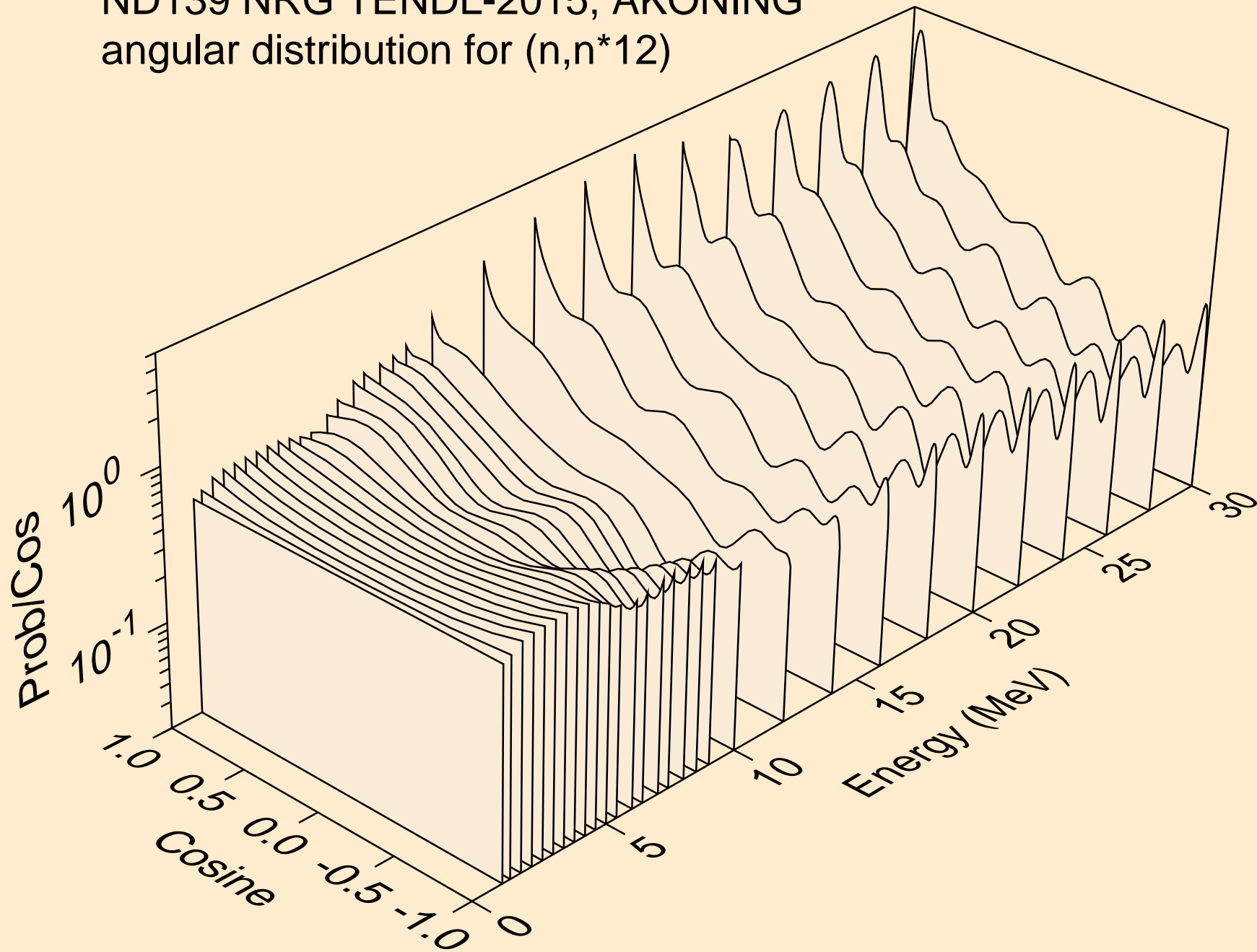
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*10)



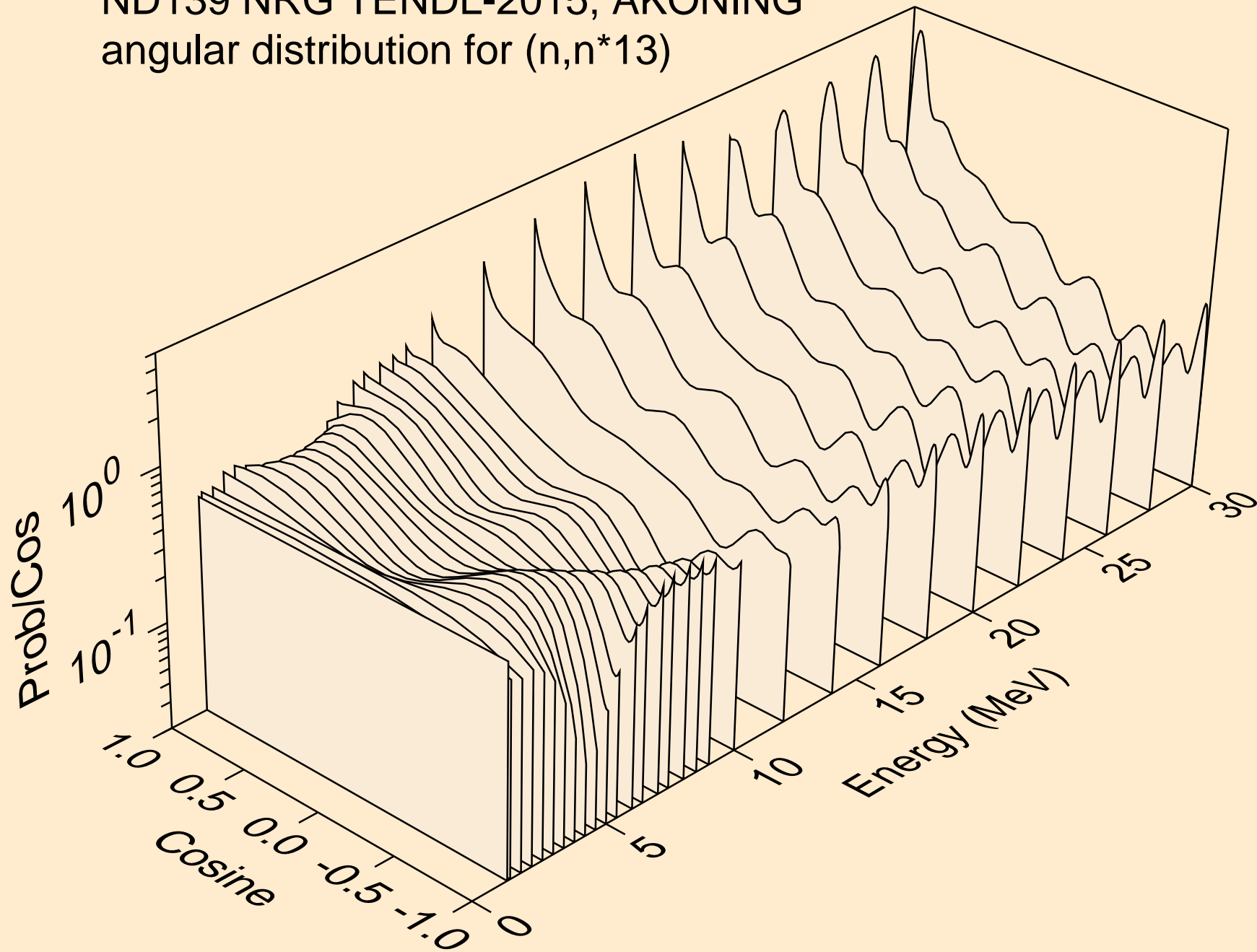
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*11)



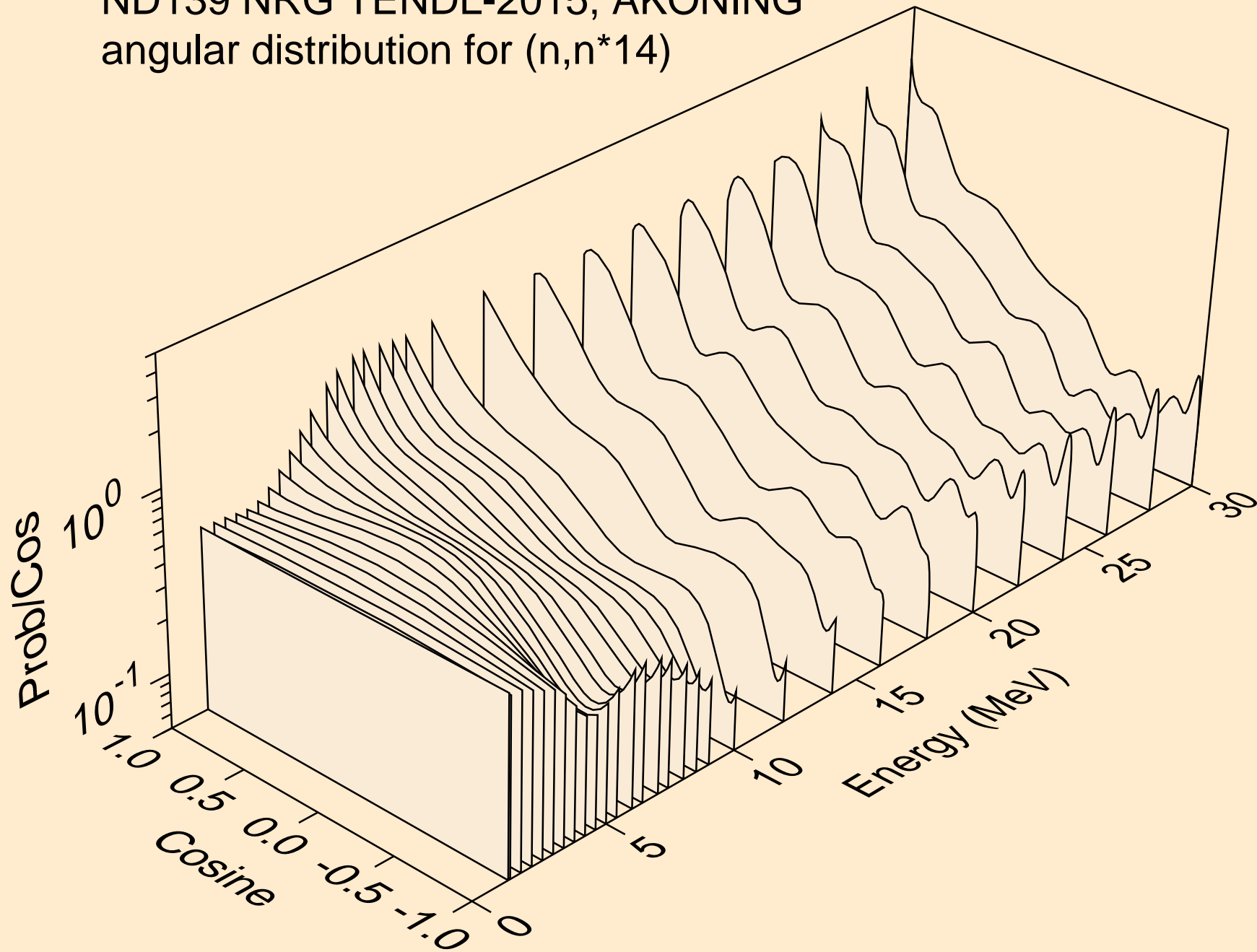
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*12)



ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*13)

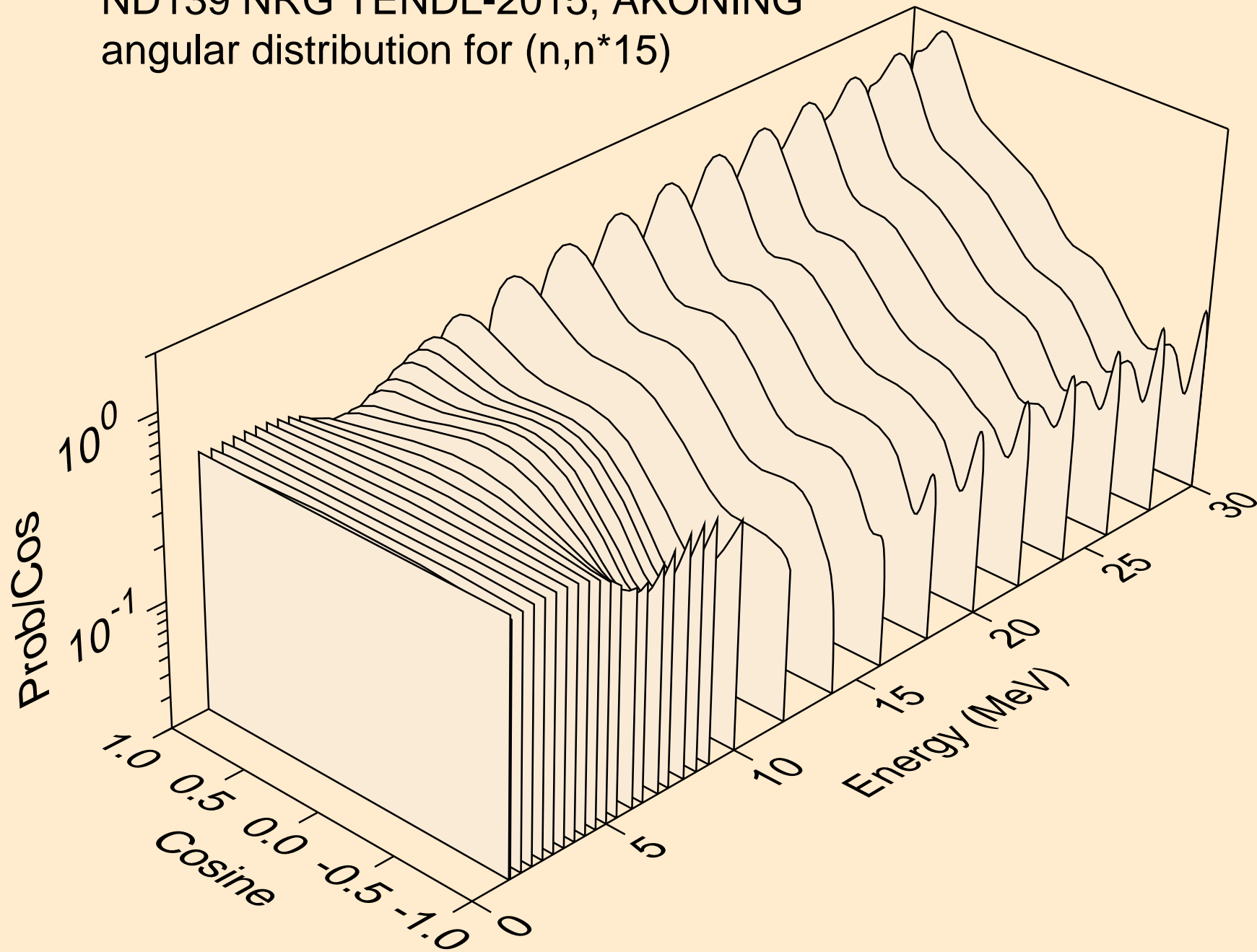


ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*14)

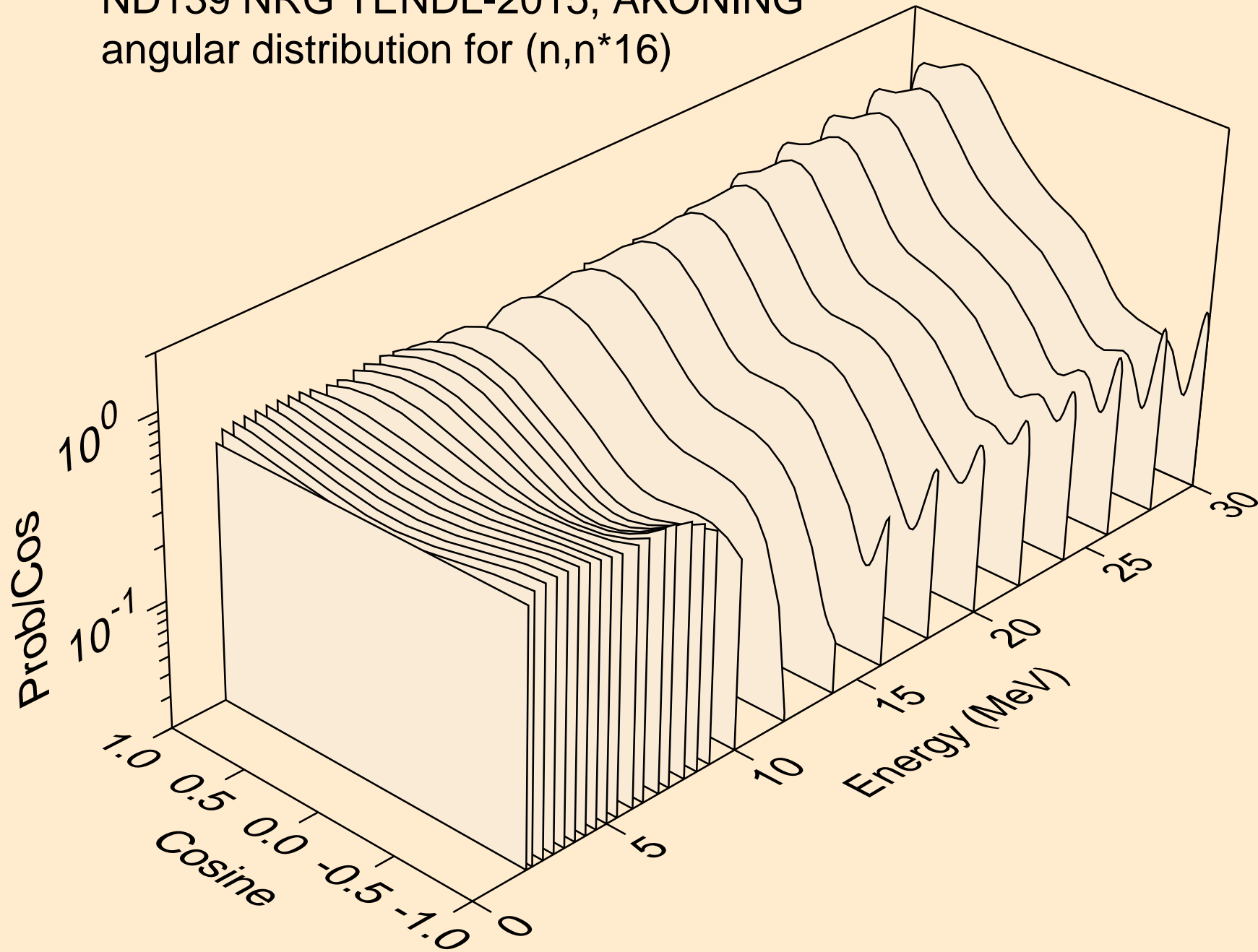




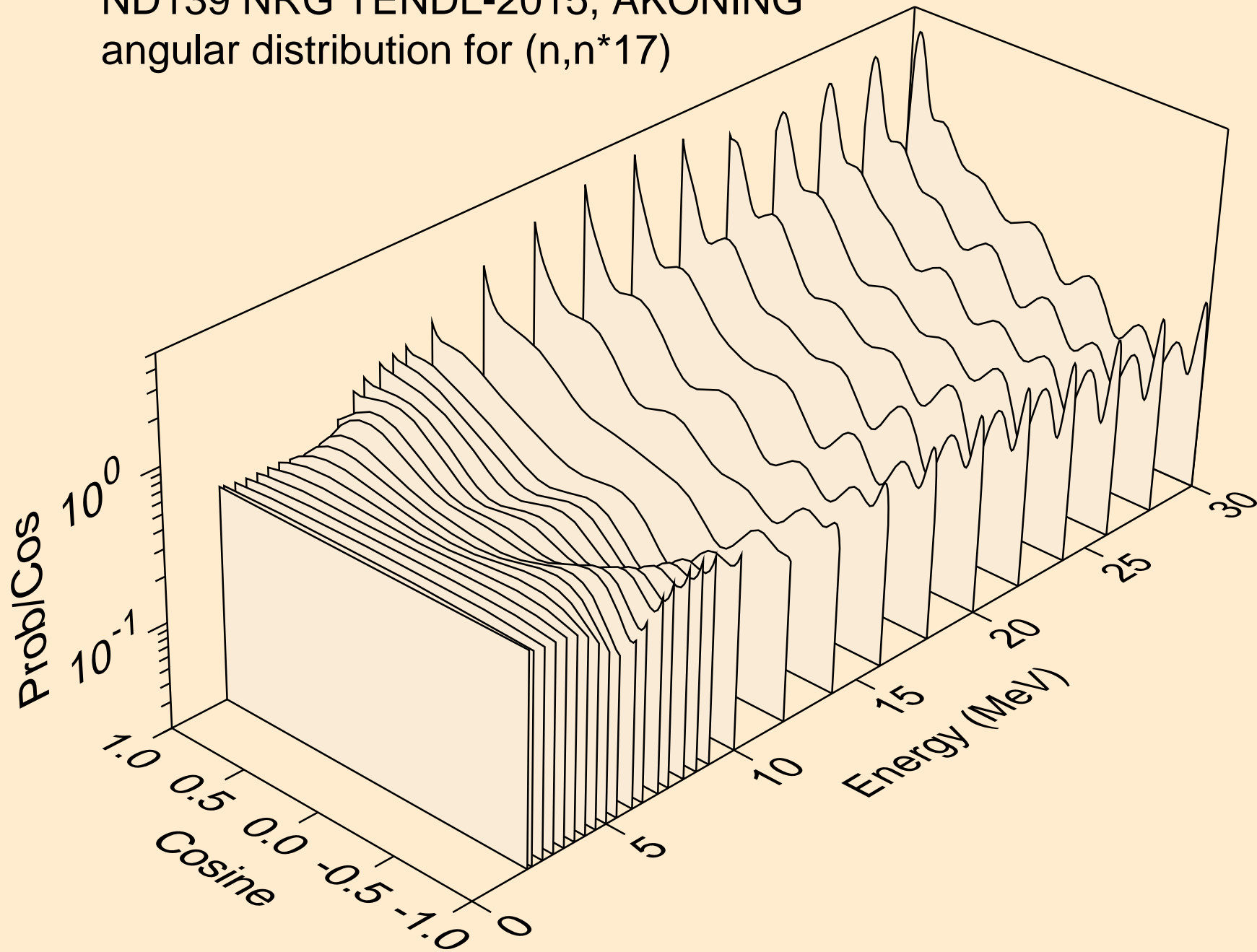
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*15)



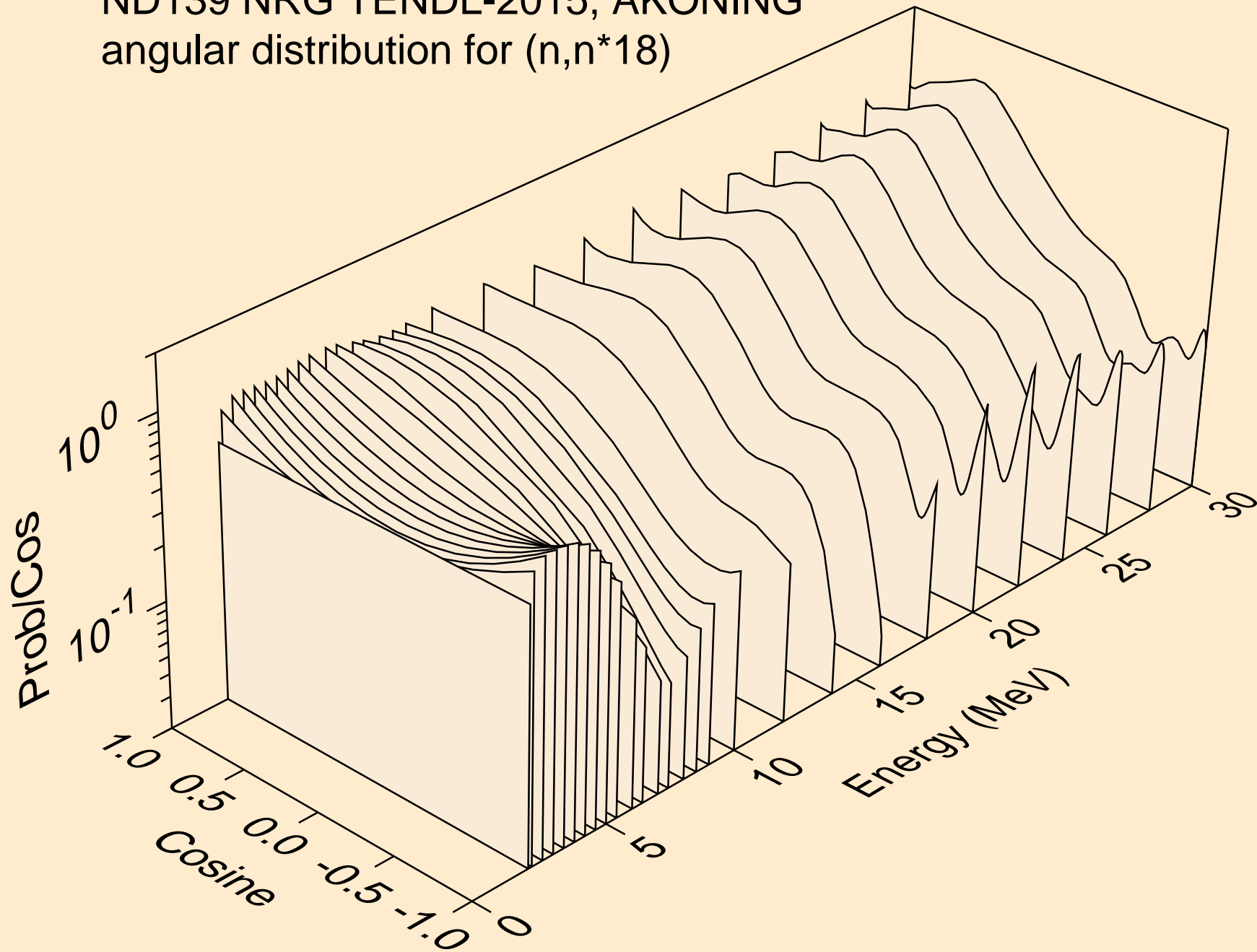
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*16)



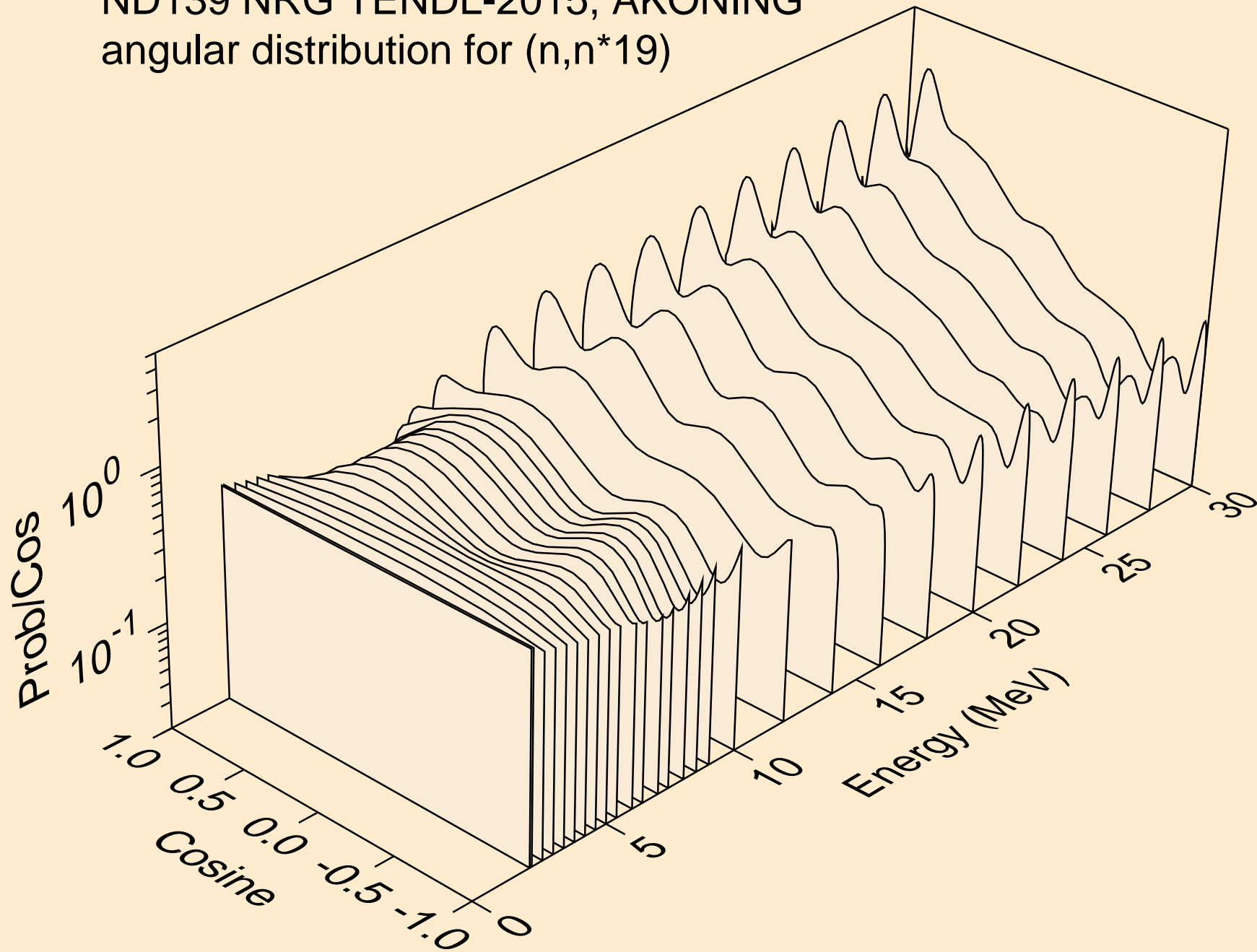
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*17)



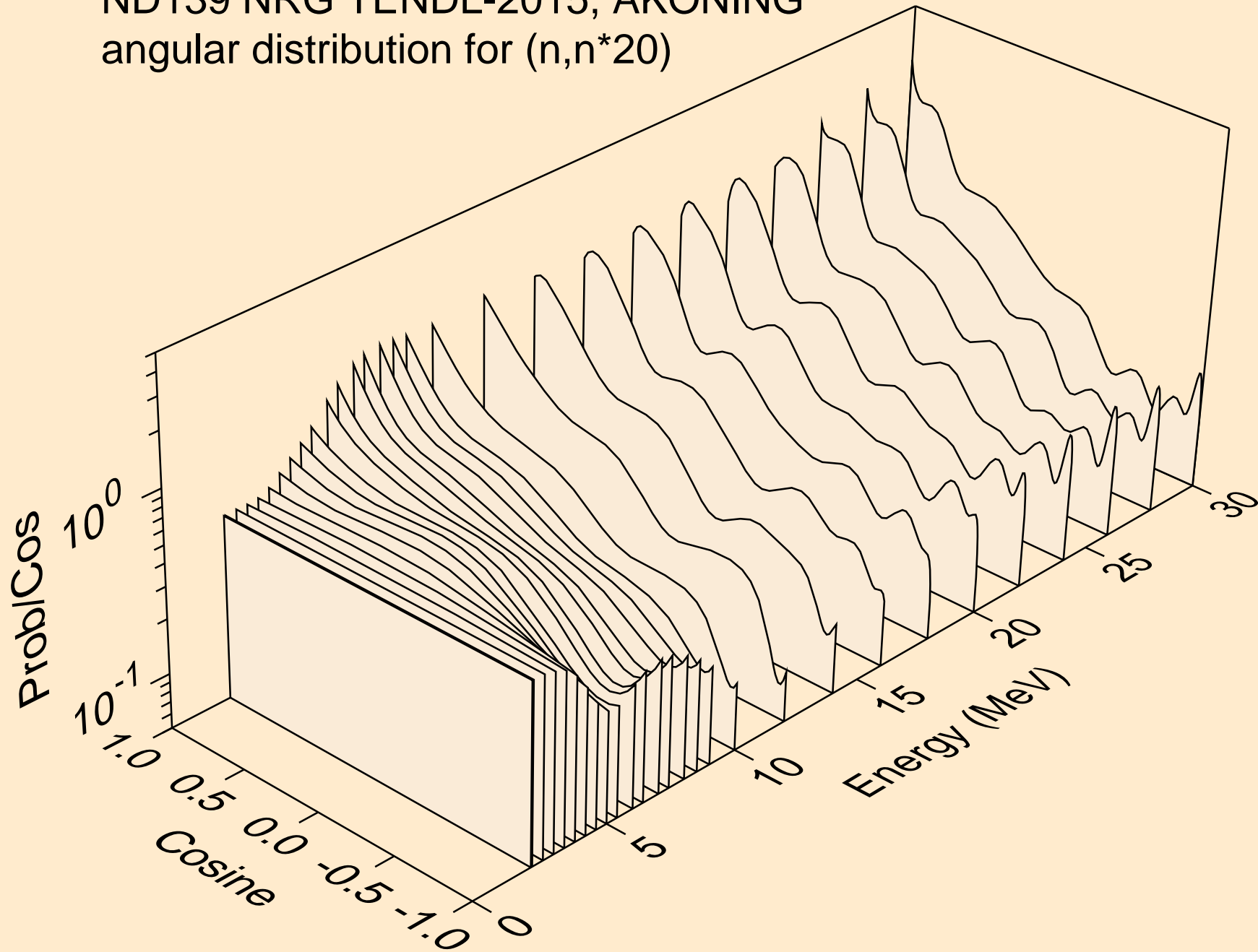
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*18)



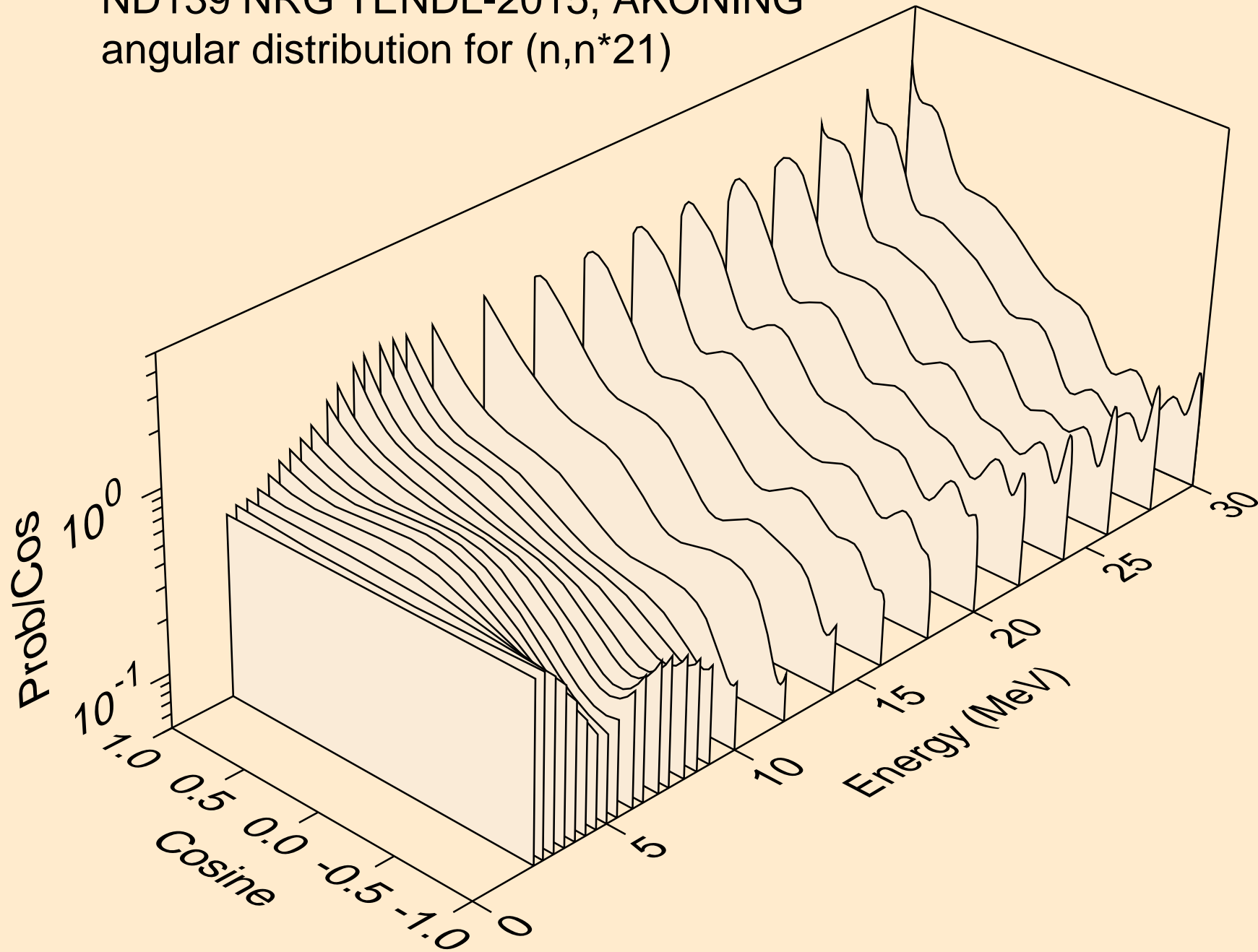
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*19)



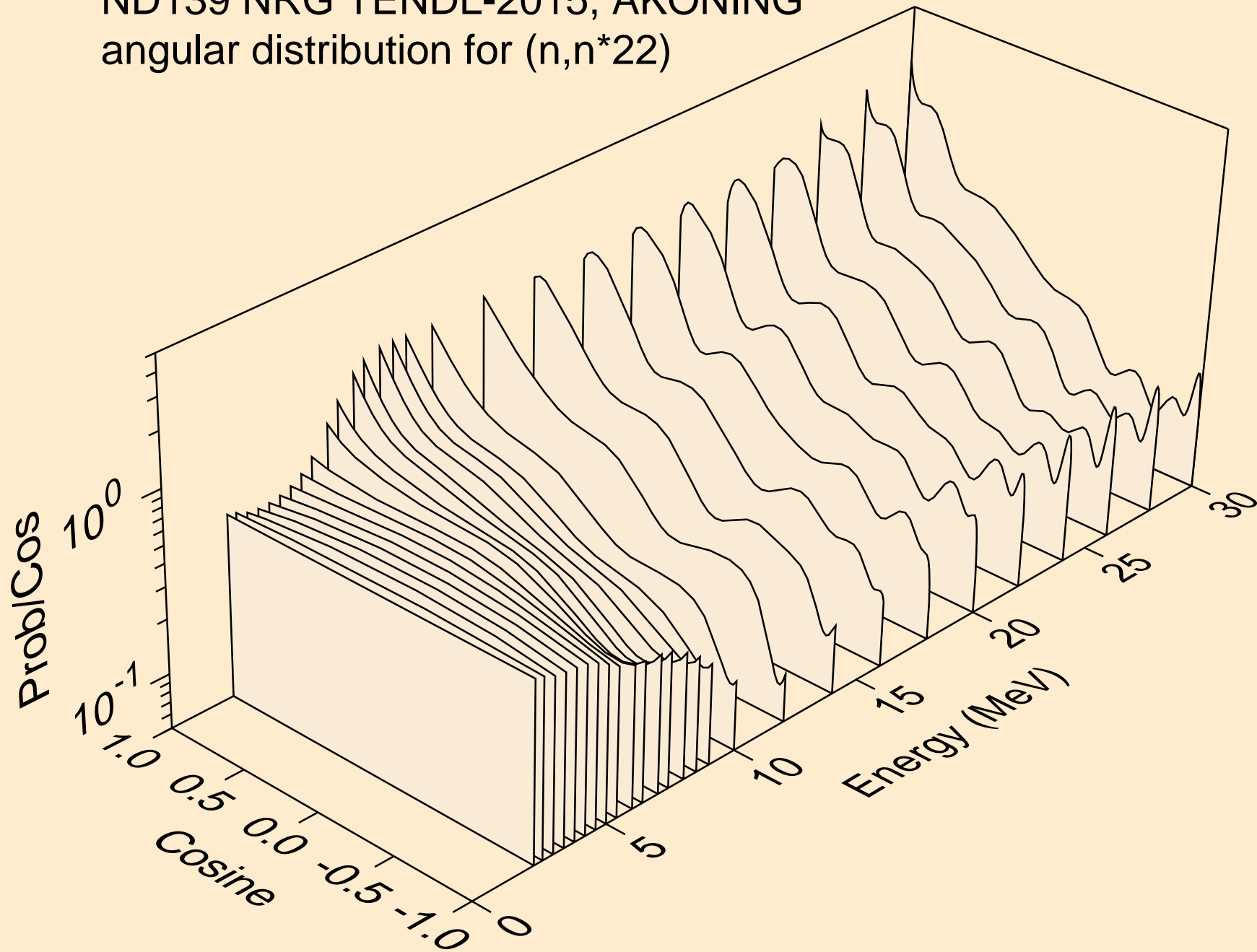
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*20)



ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*21)

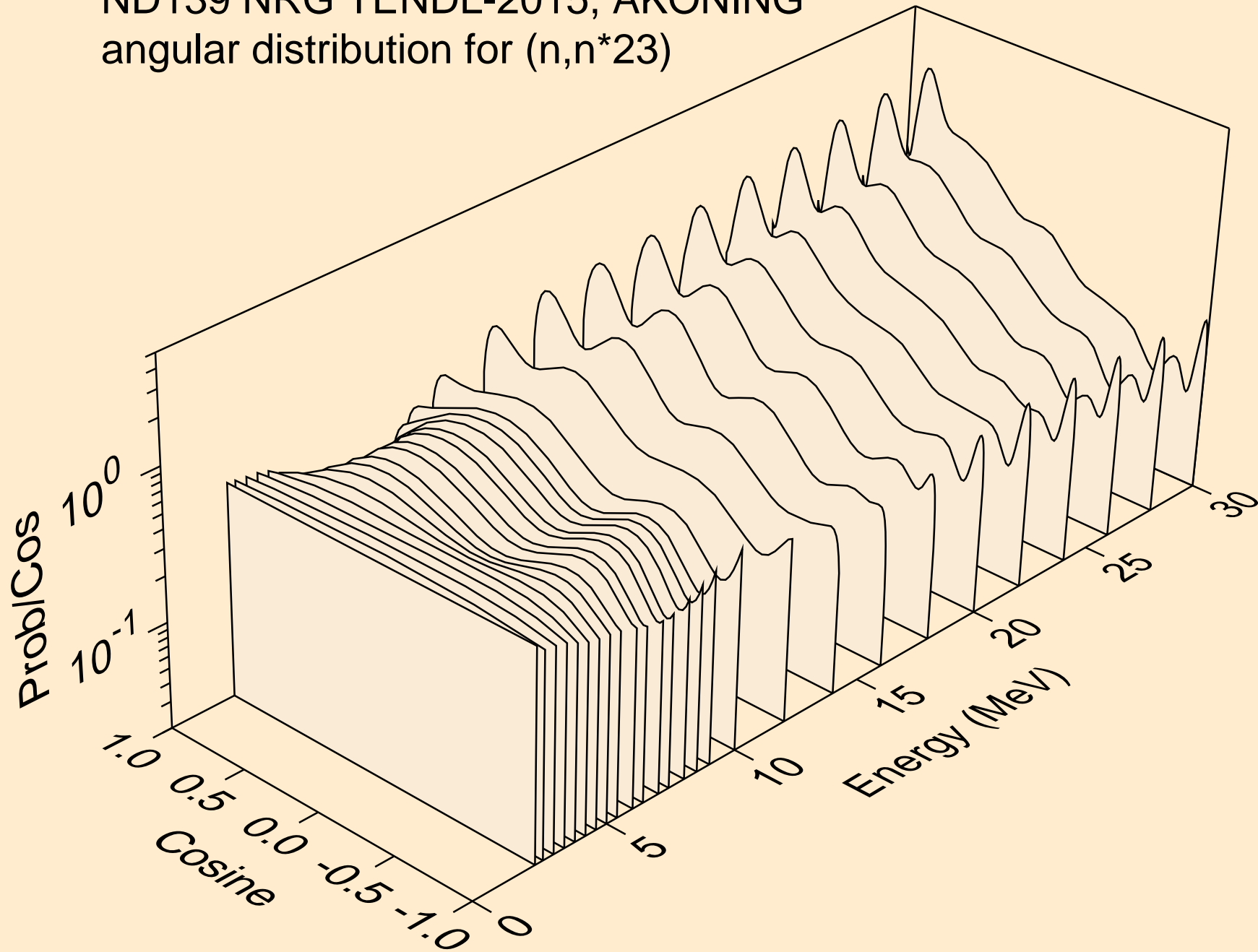


ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*22)

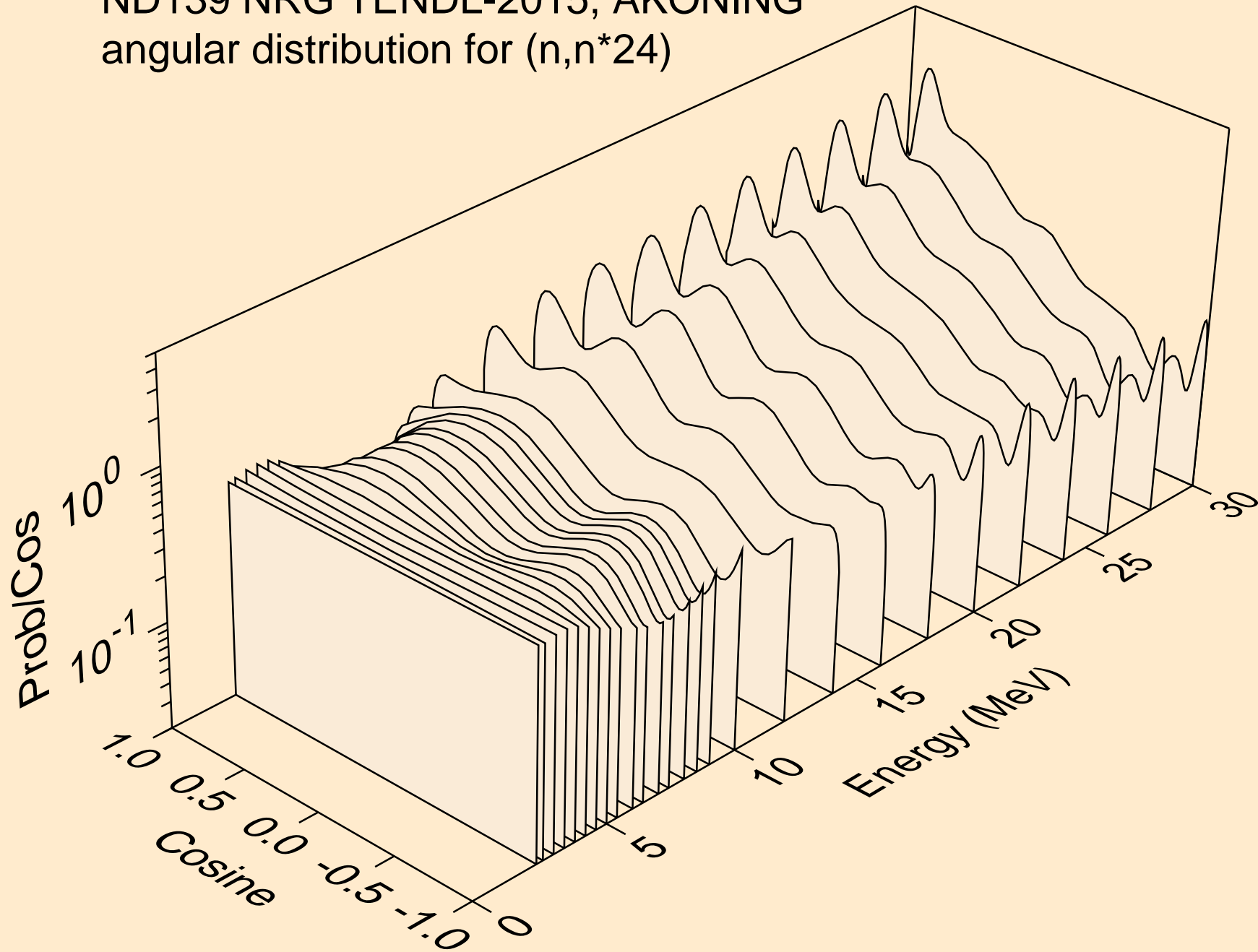




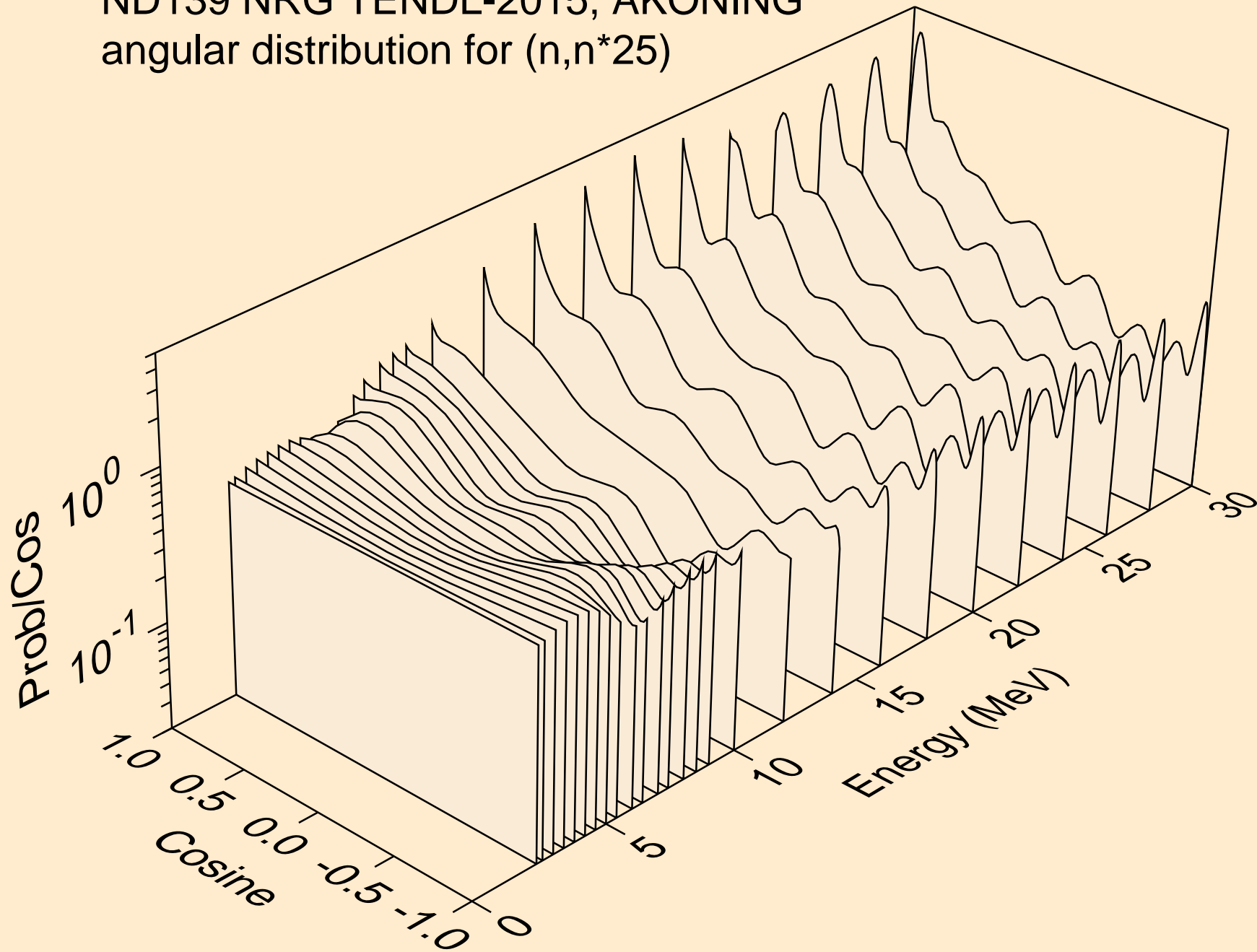
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*23)



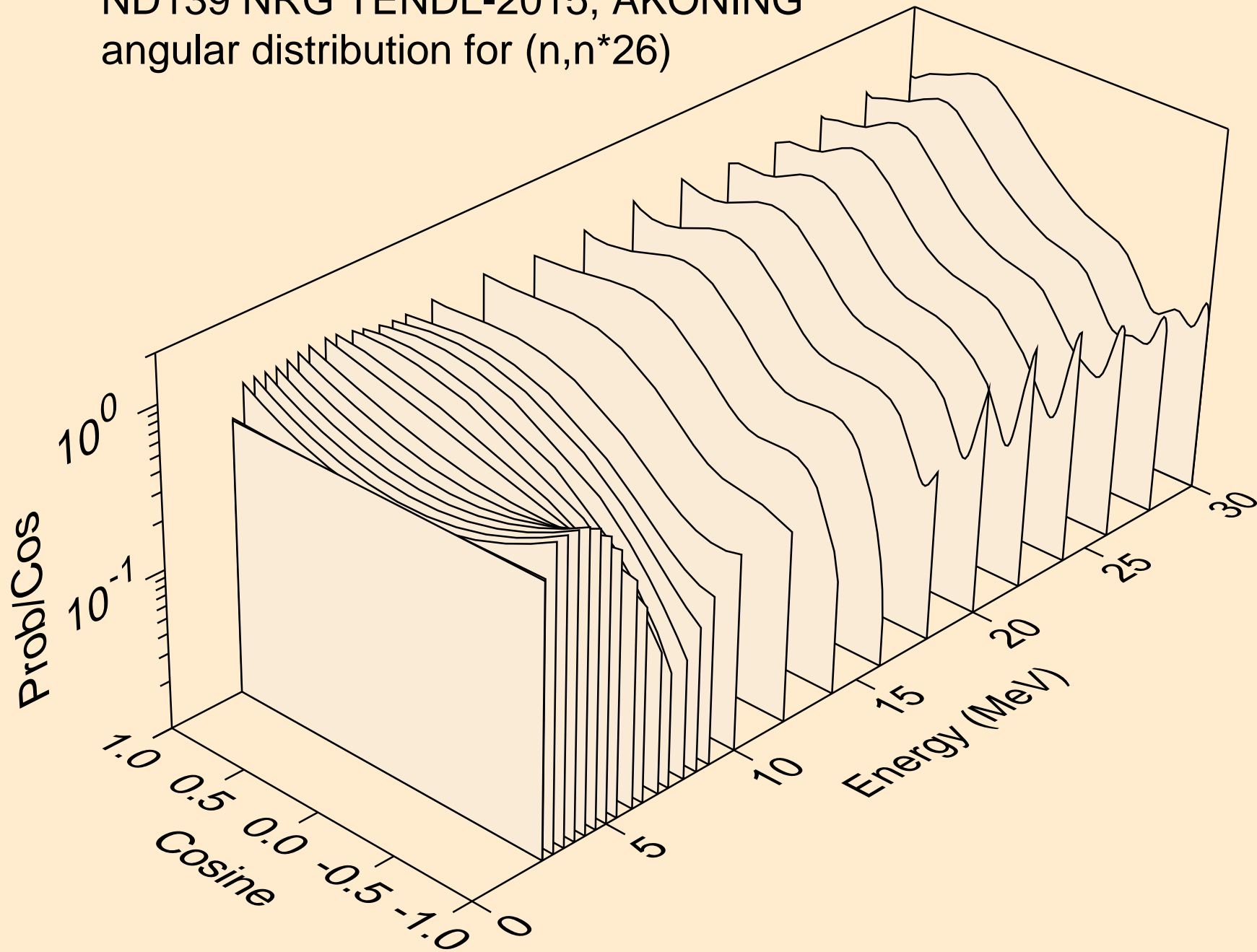
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*24)



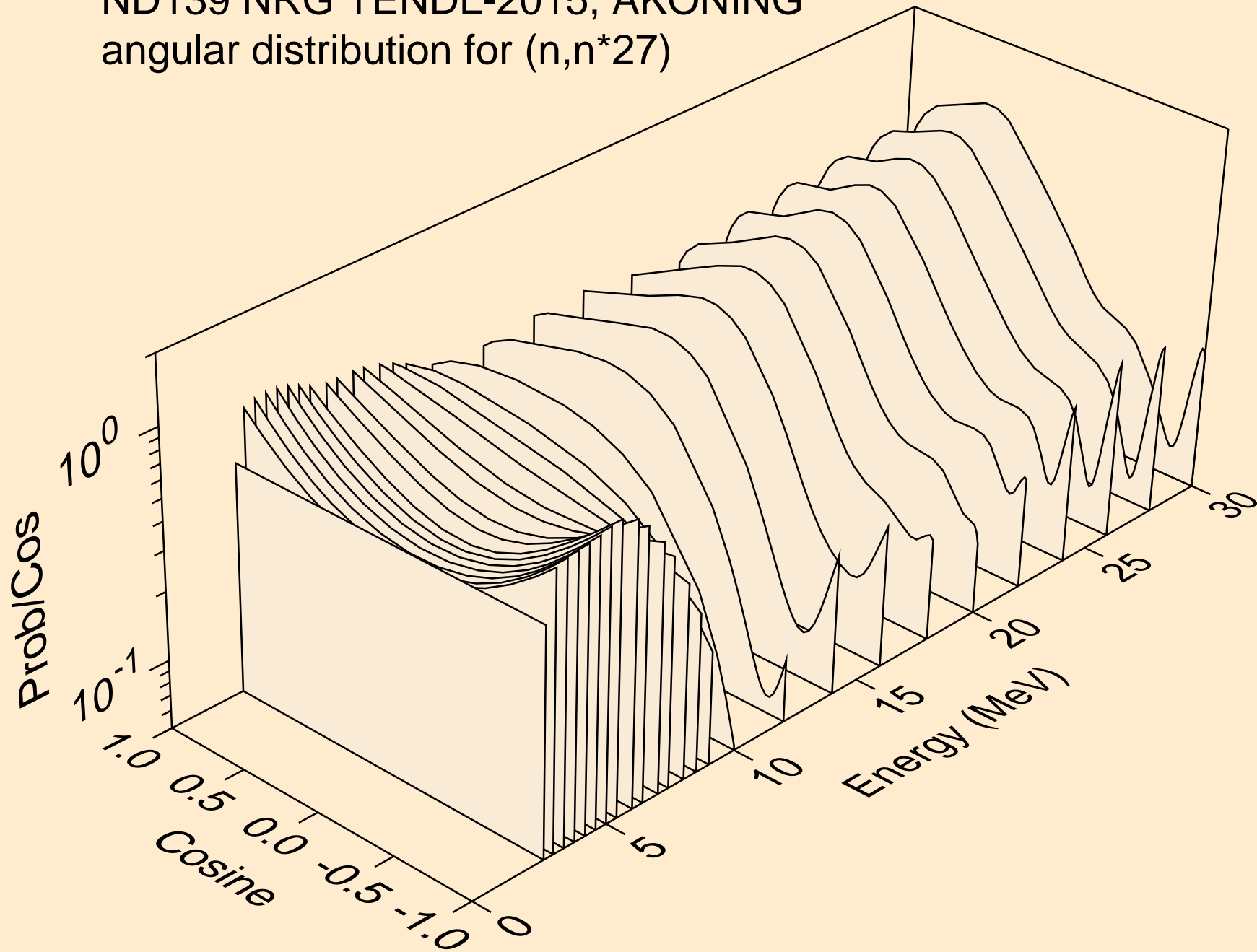
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*25)



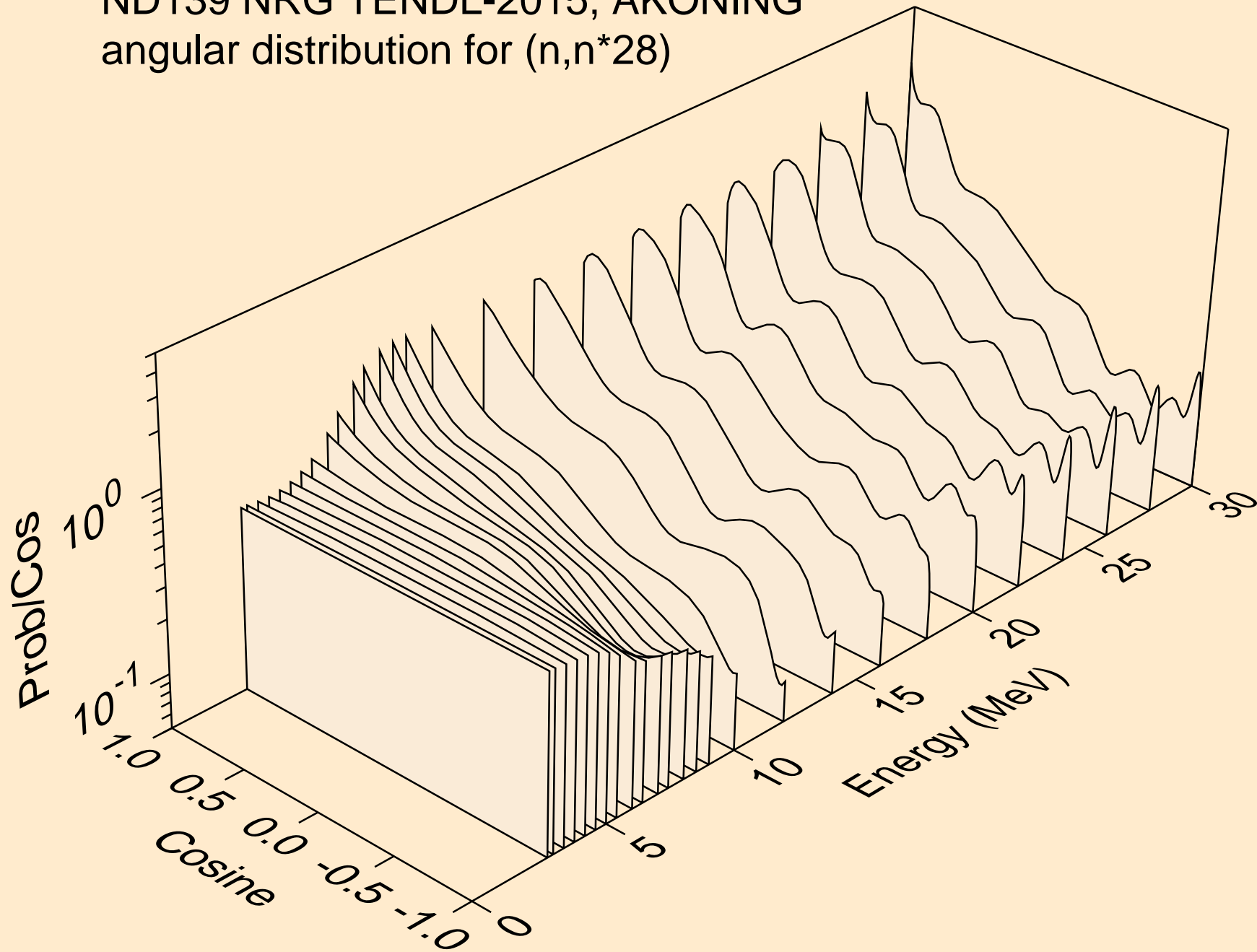
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*26)



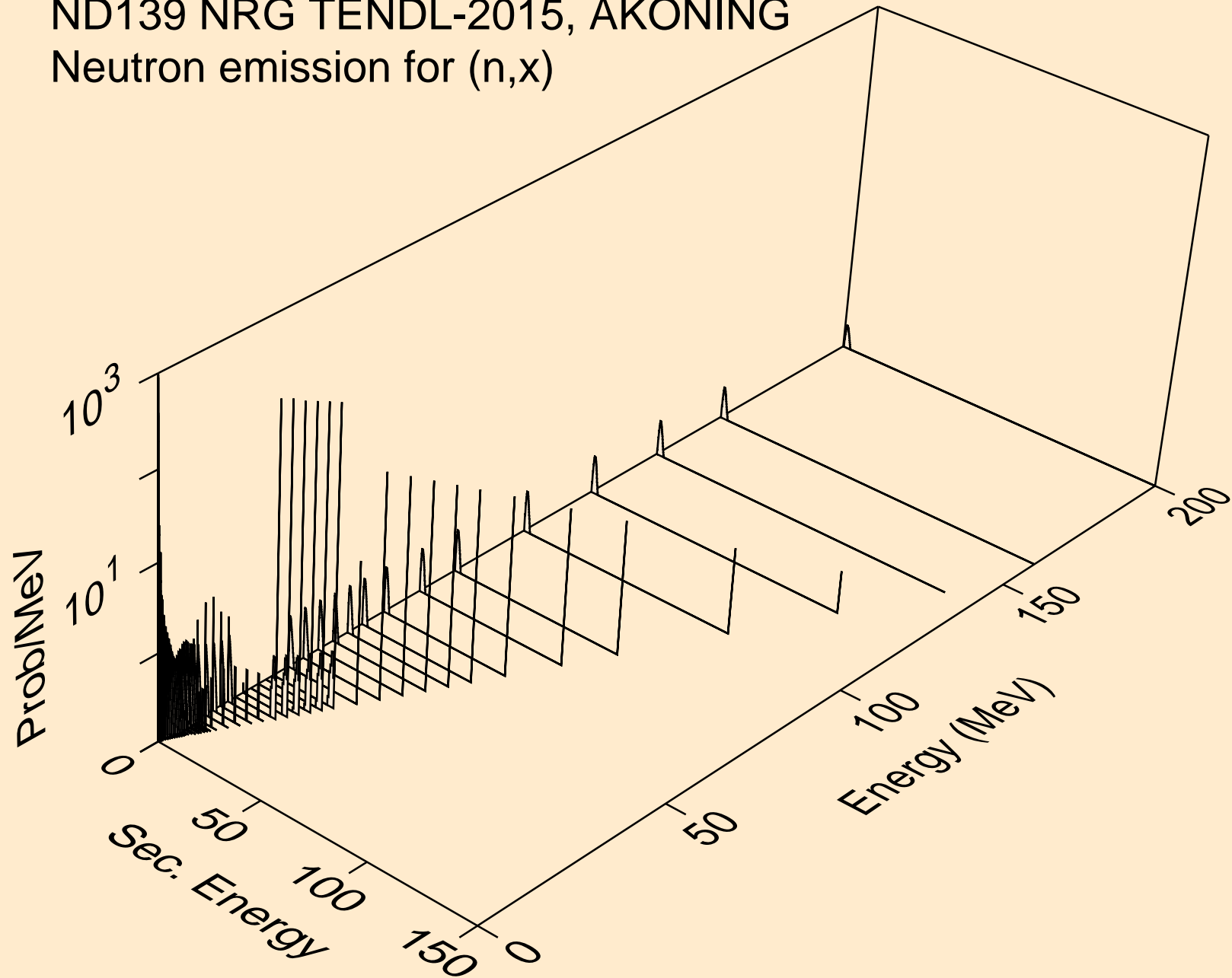
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*27)



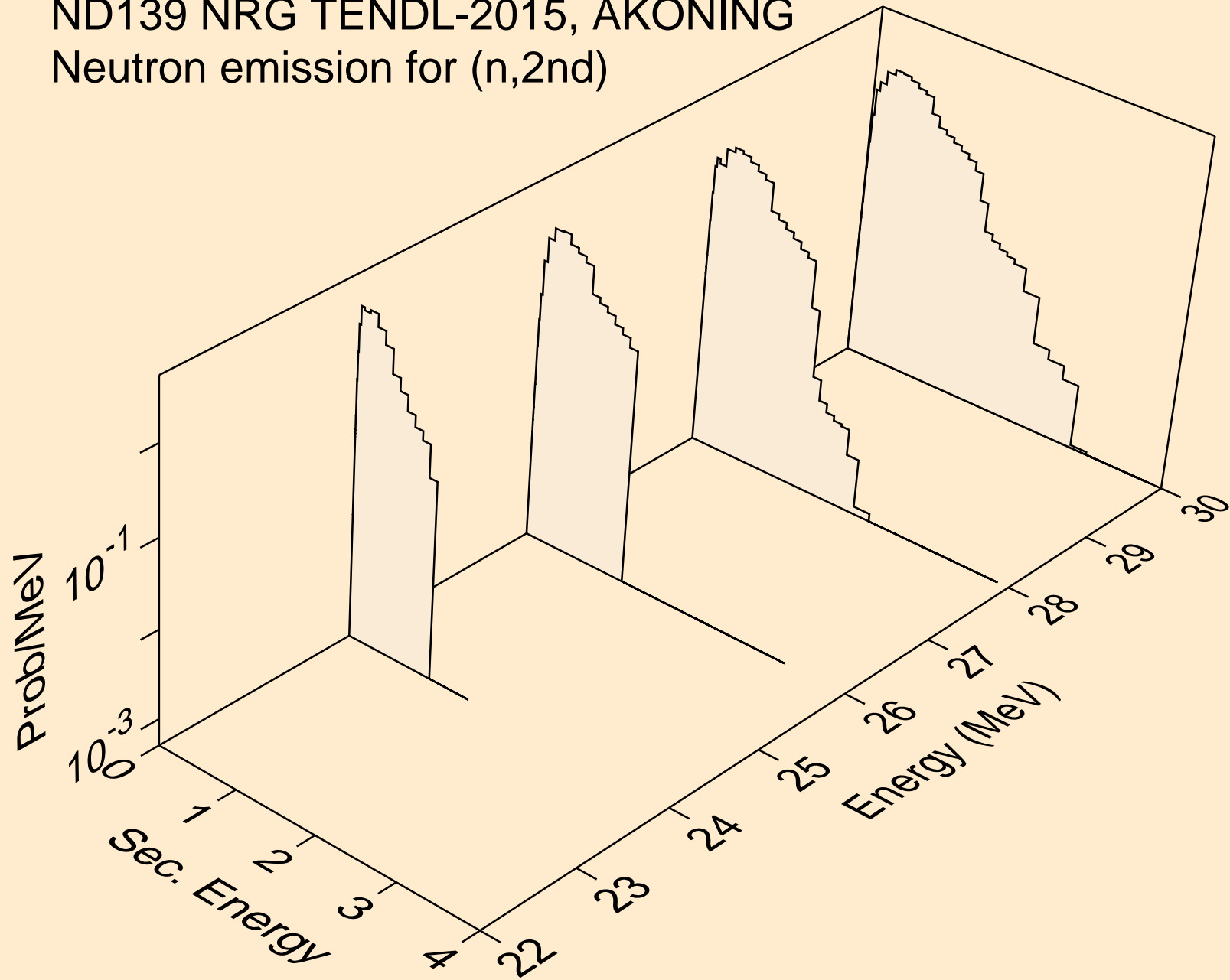
ND139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*28)



ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,x)

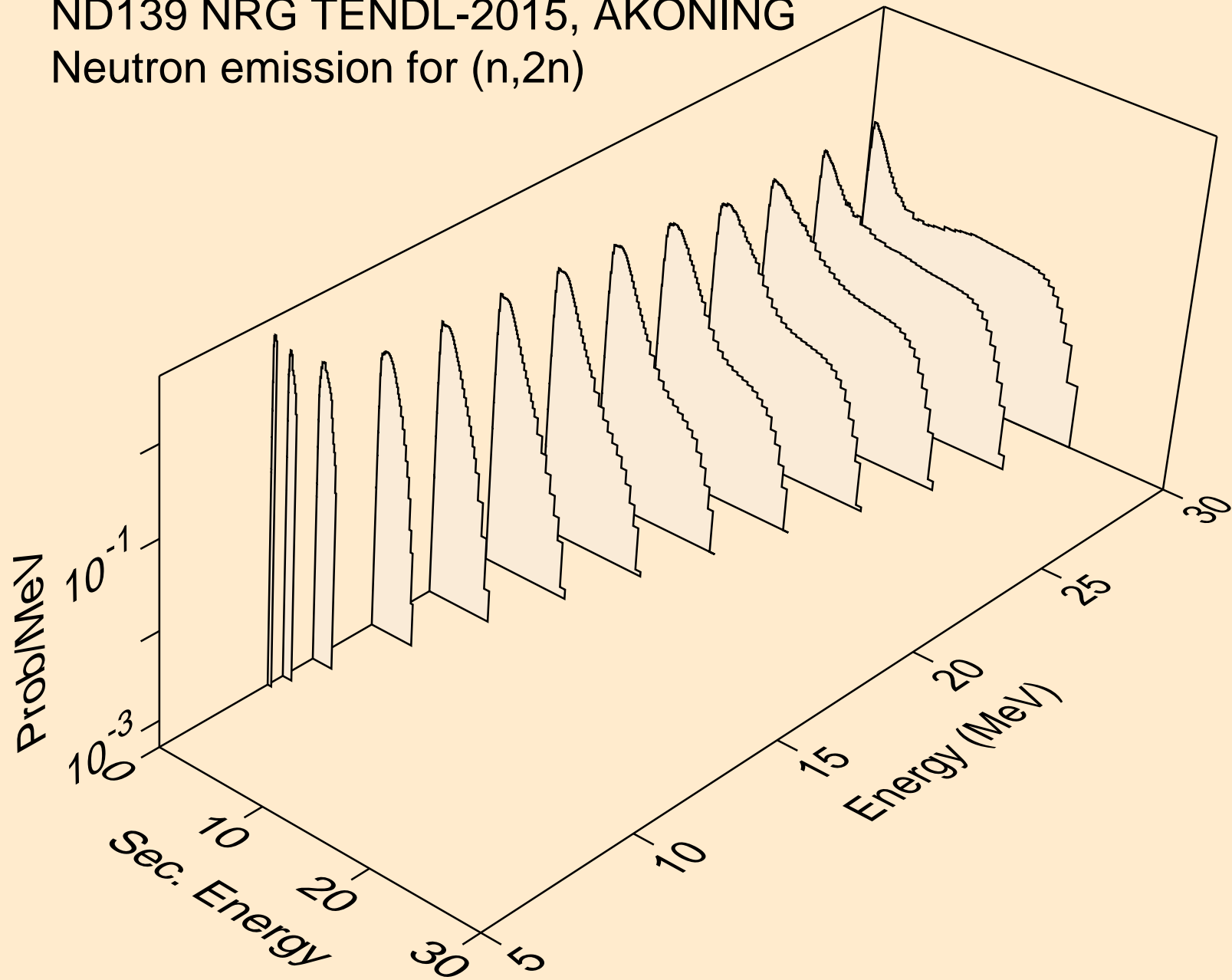


ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2nd)

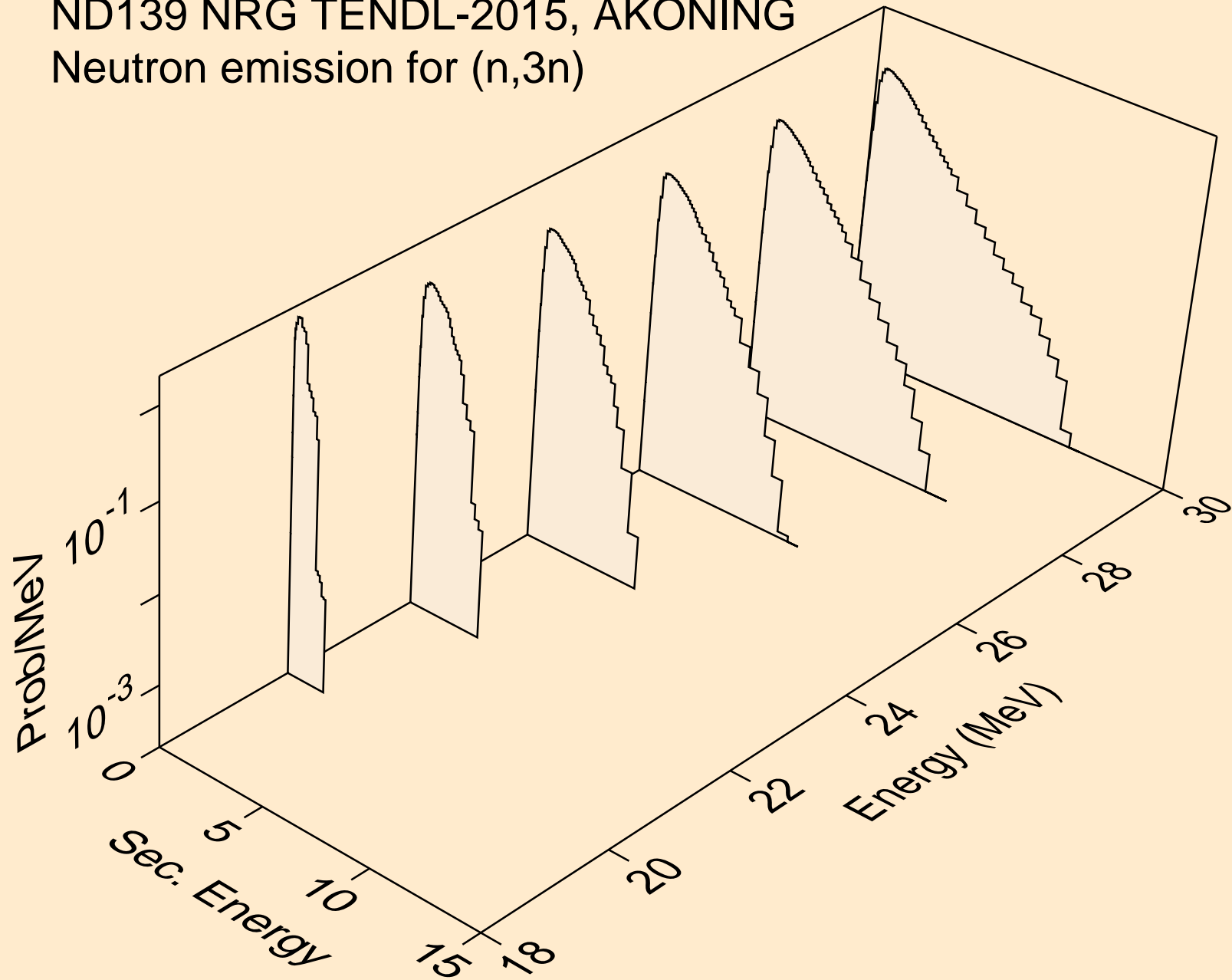




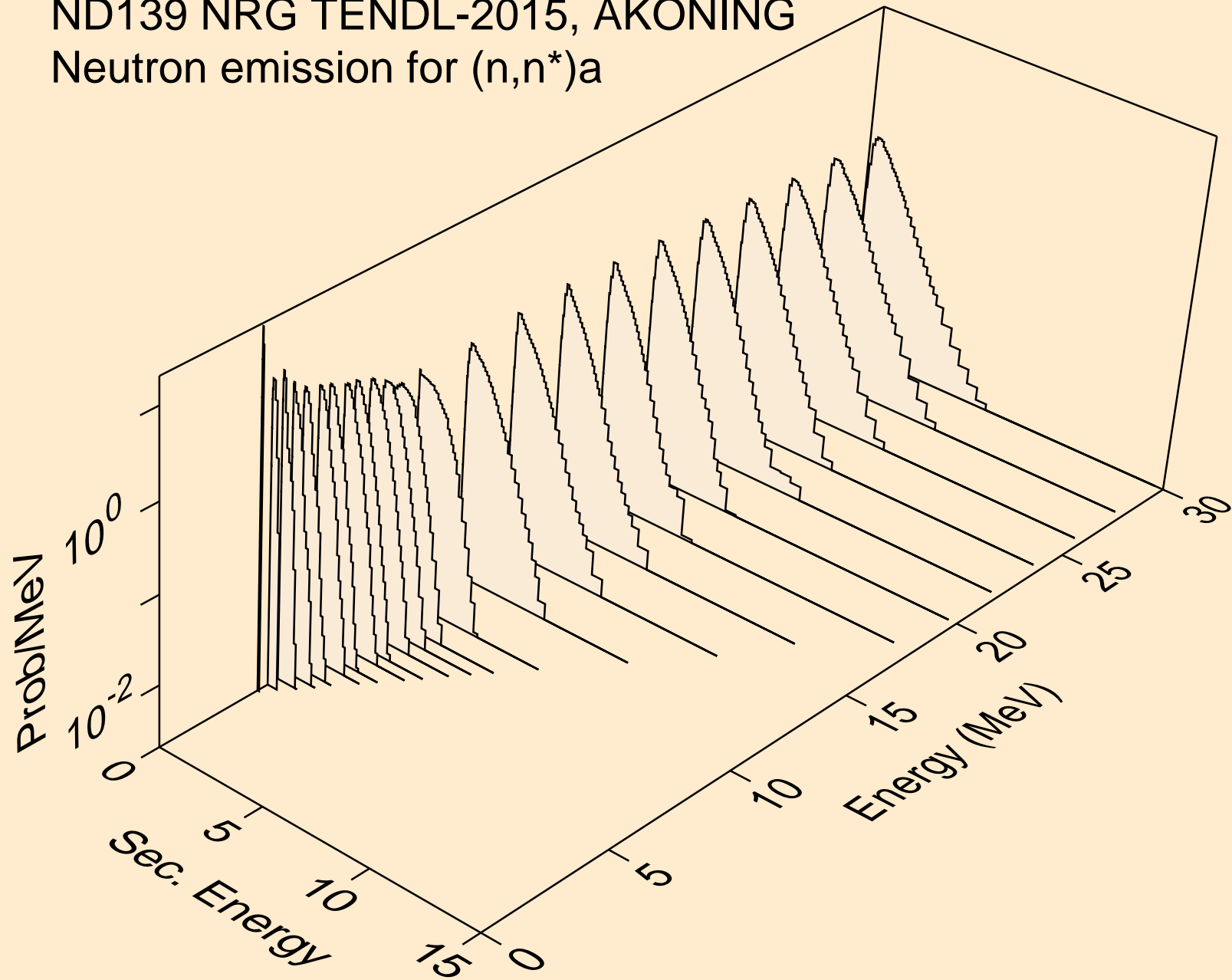
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)



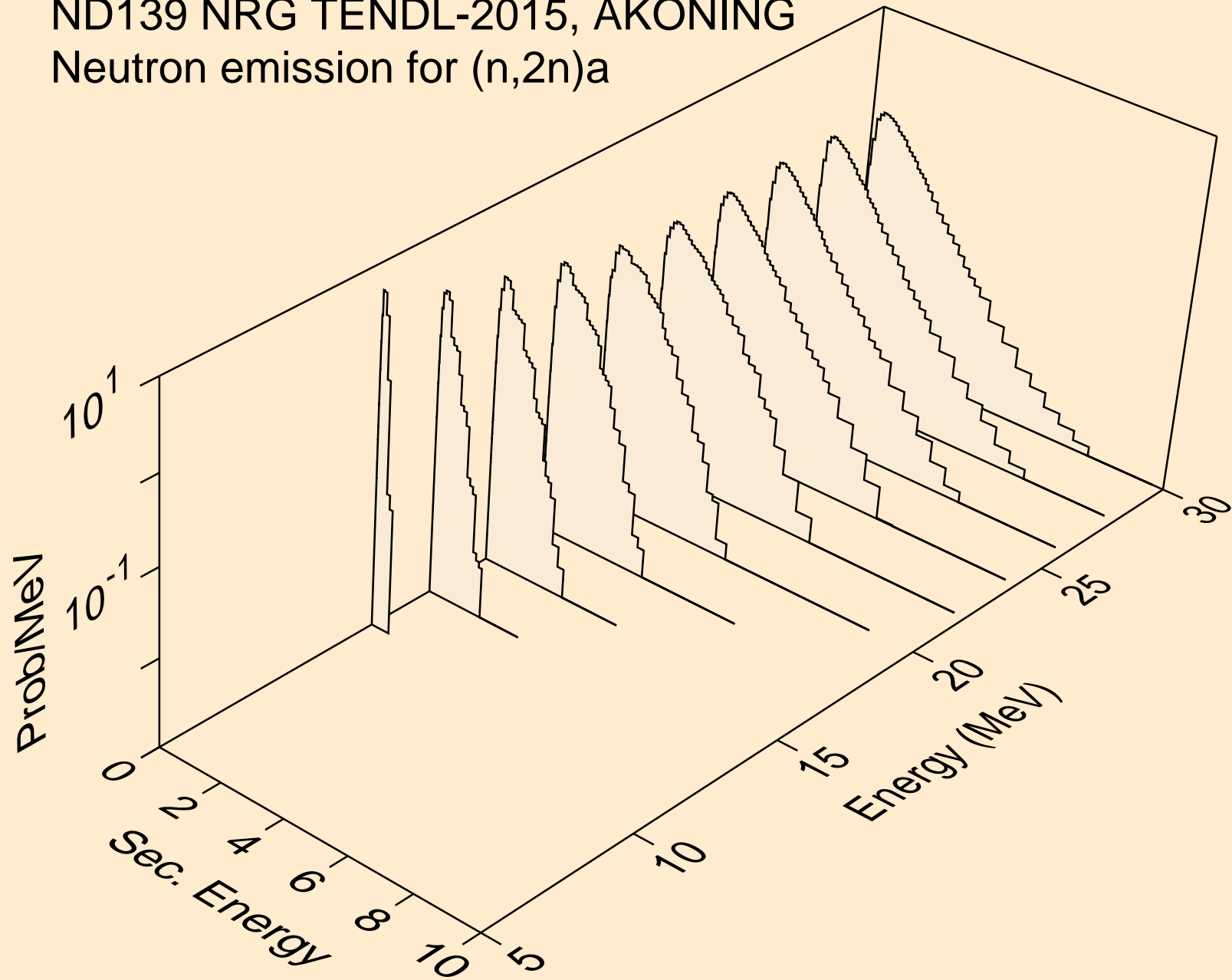
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)



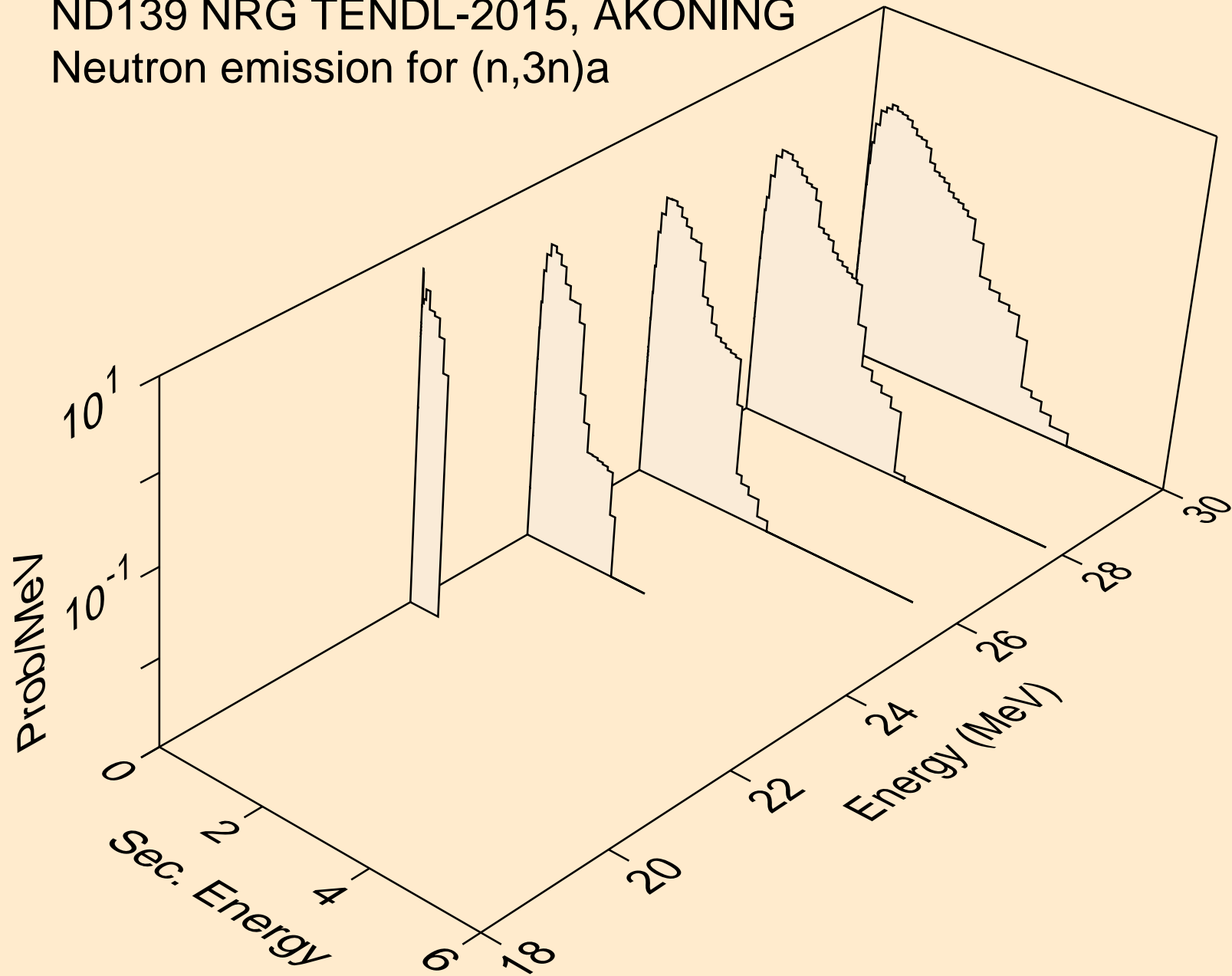
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)a



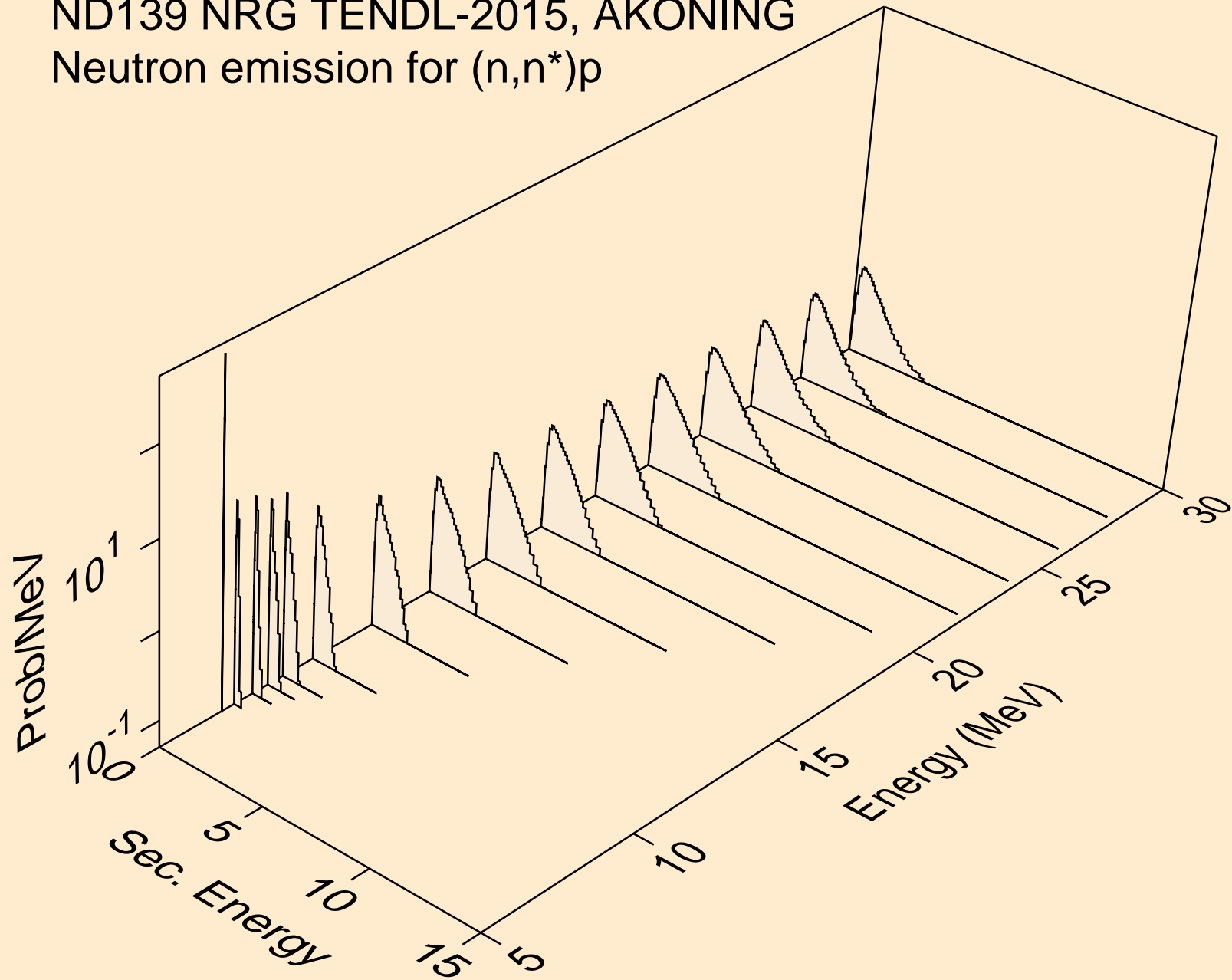
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)a



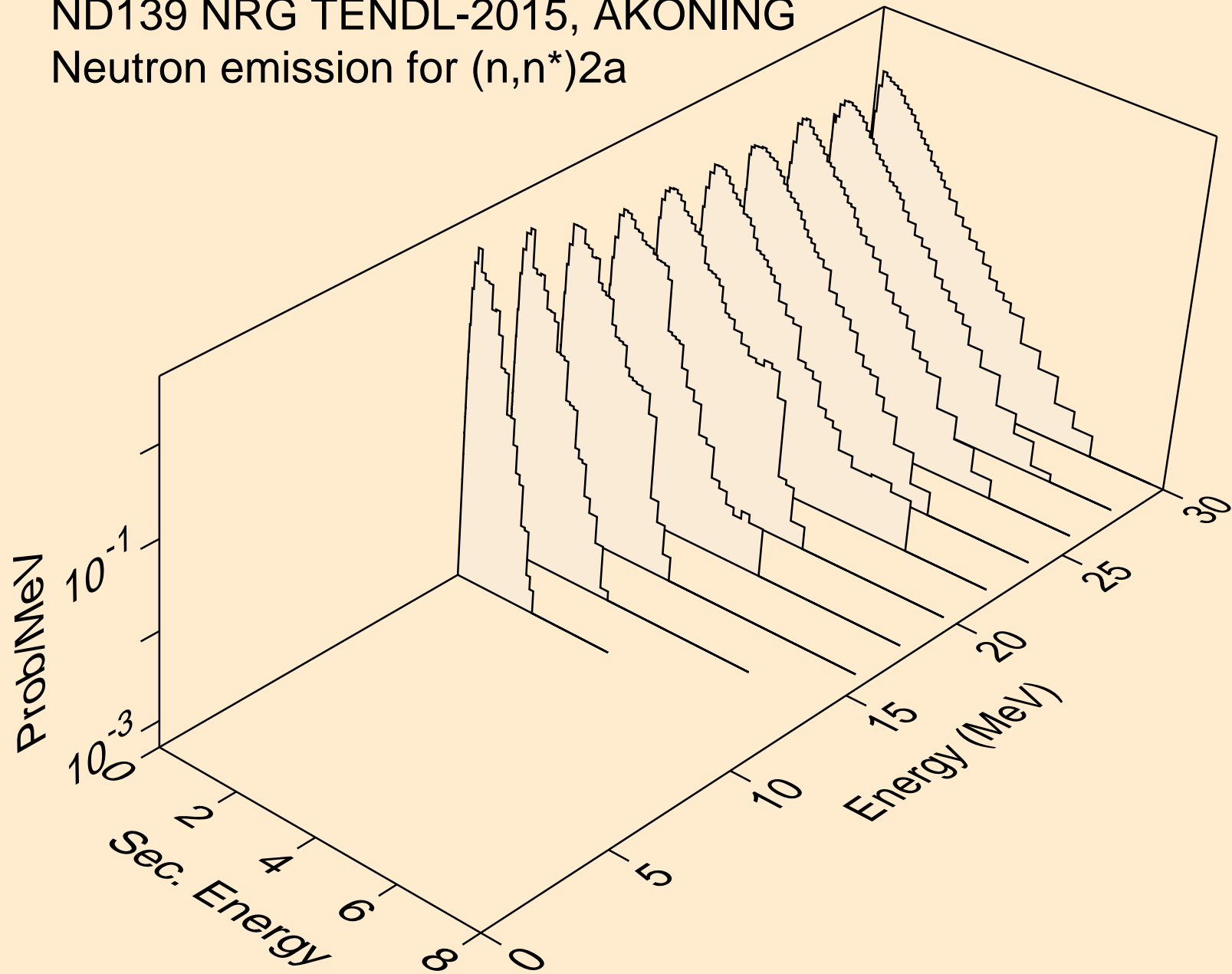
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)a



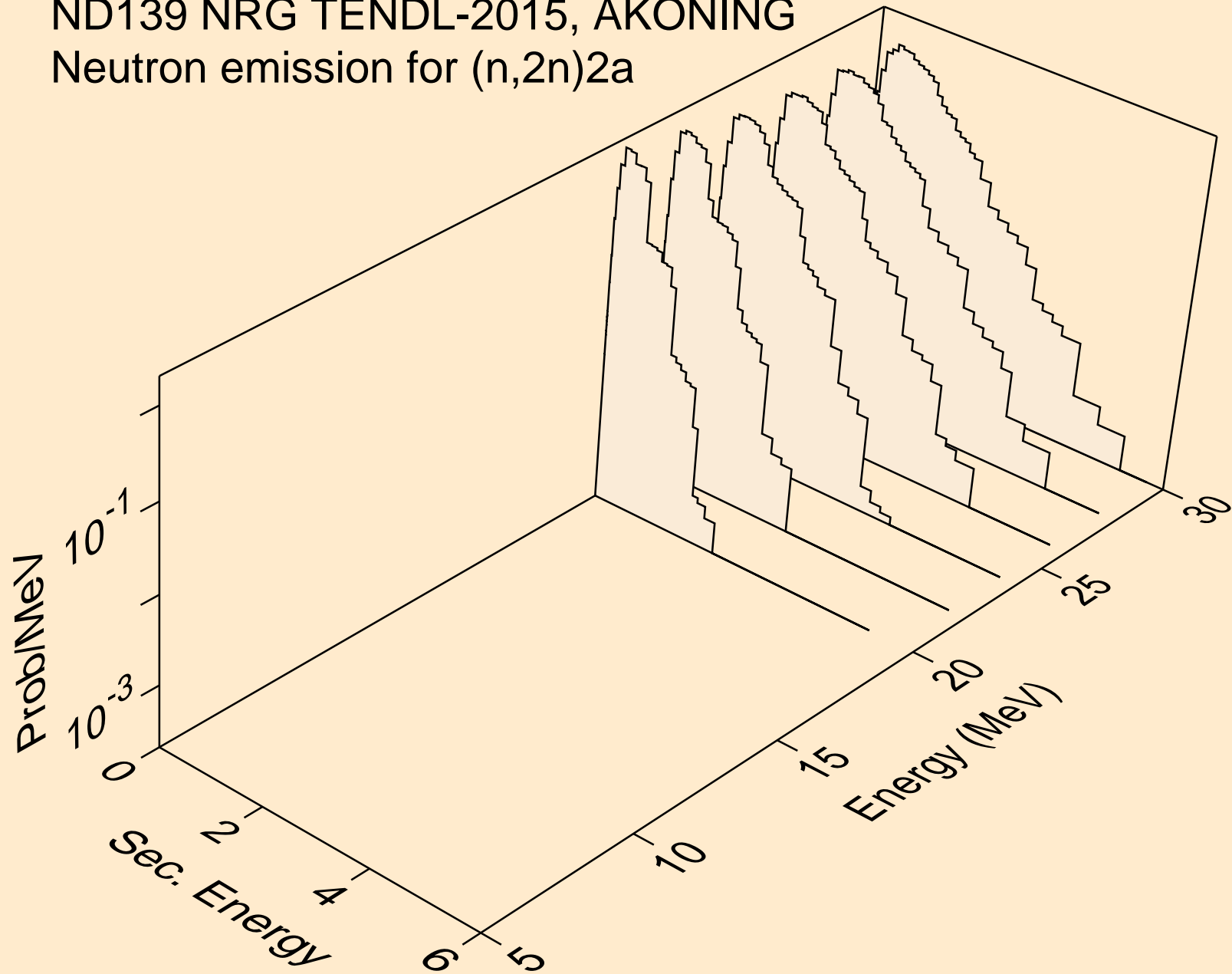
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)p



ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)2a

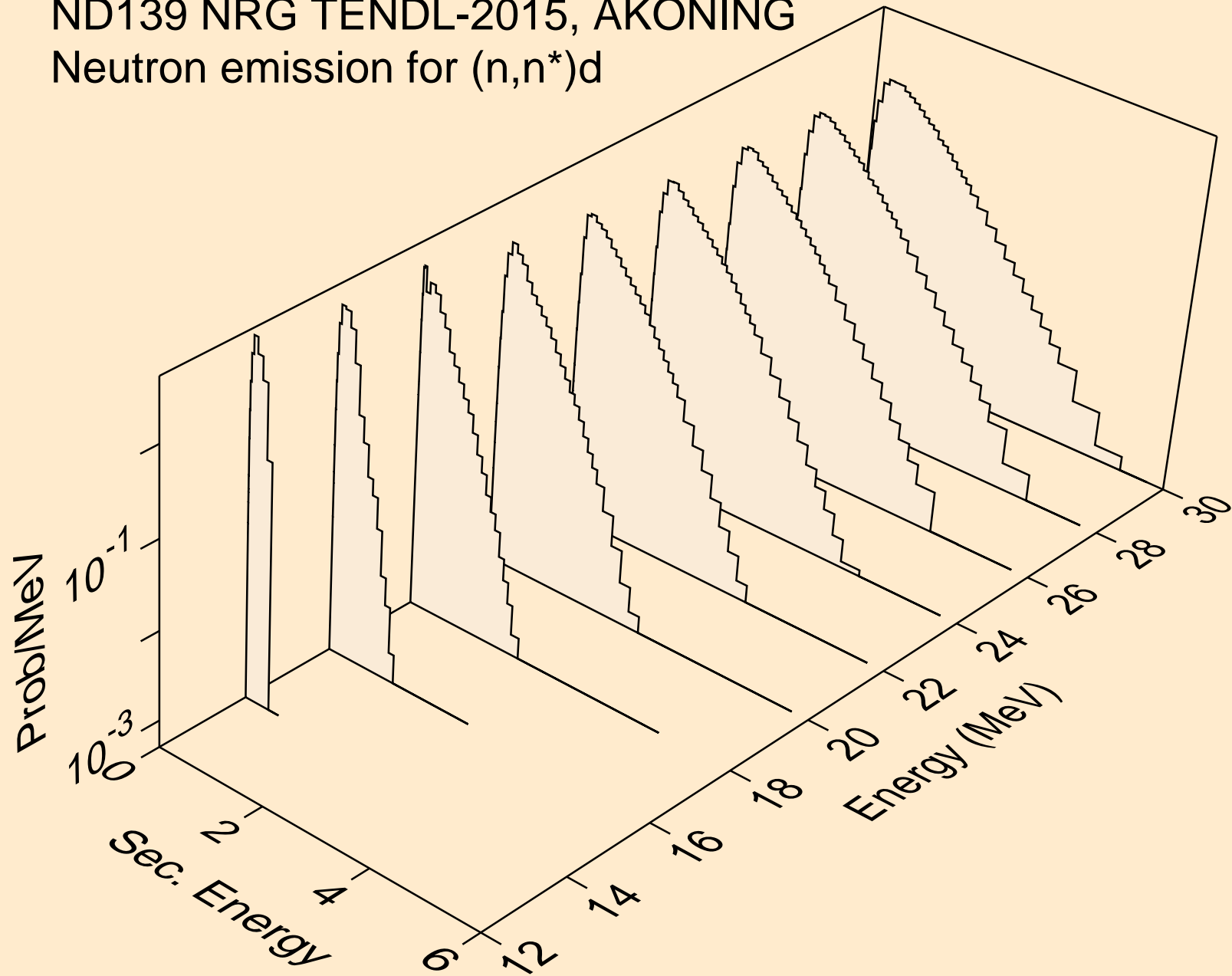


ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)2a

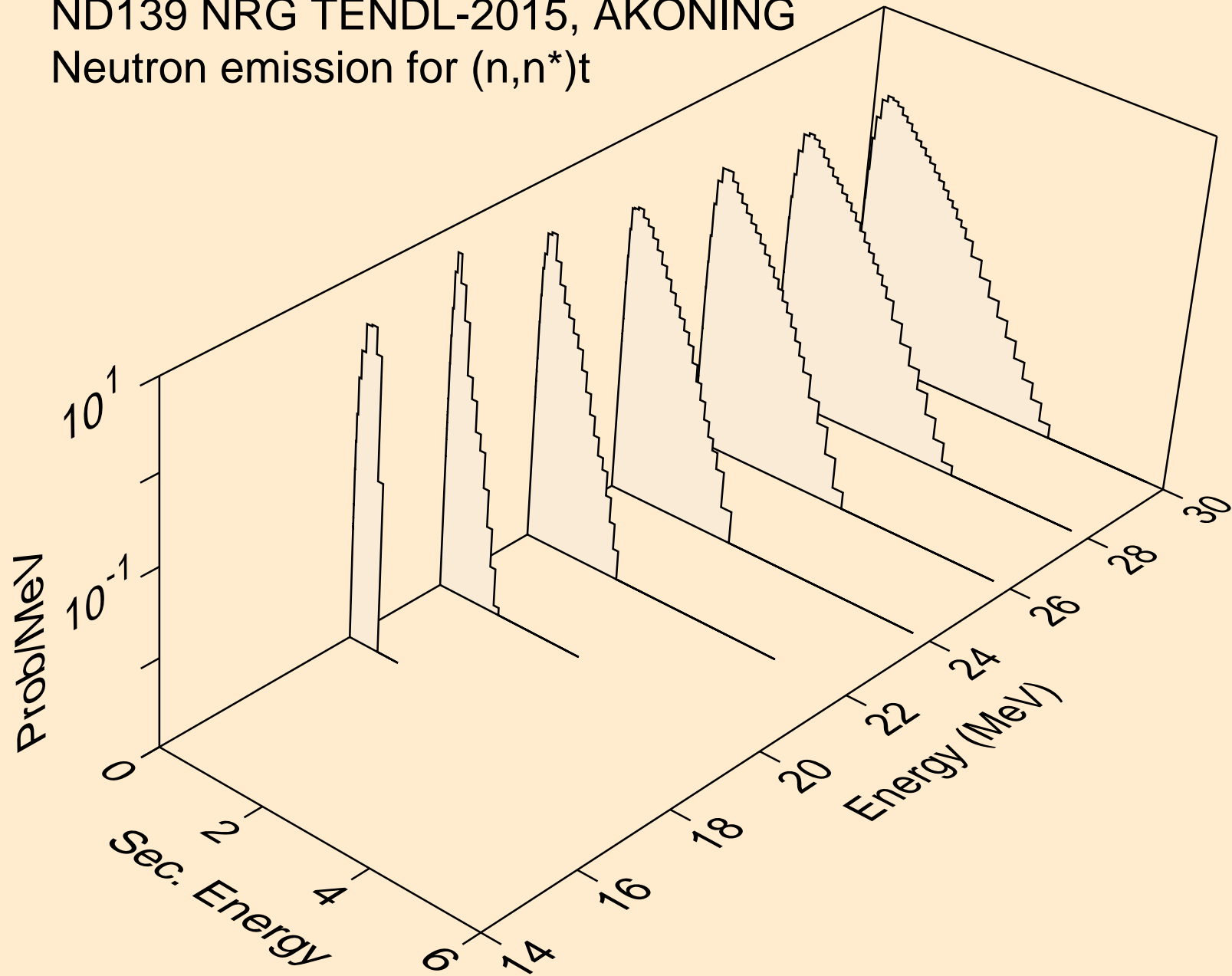




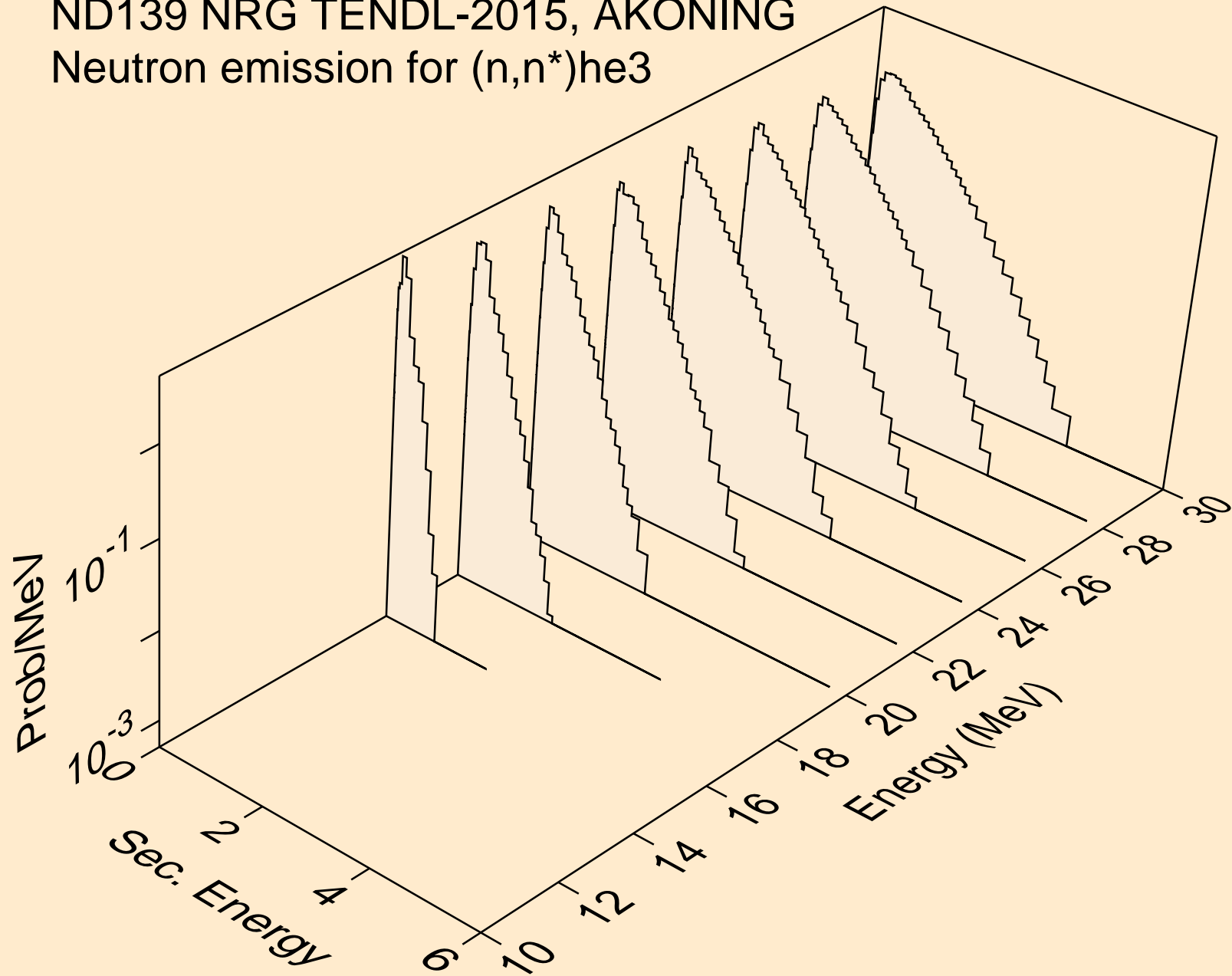
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d



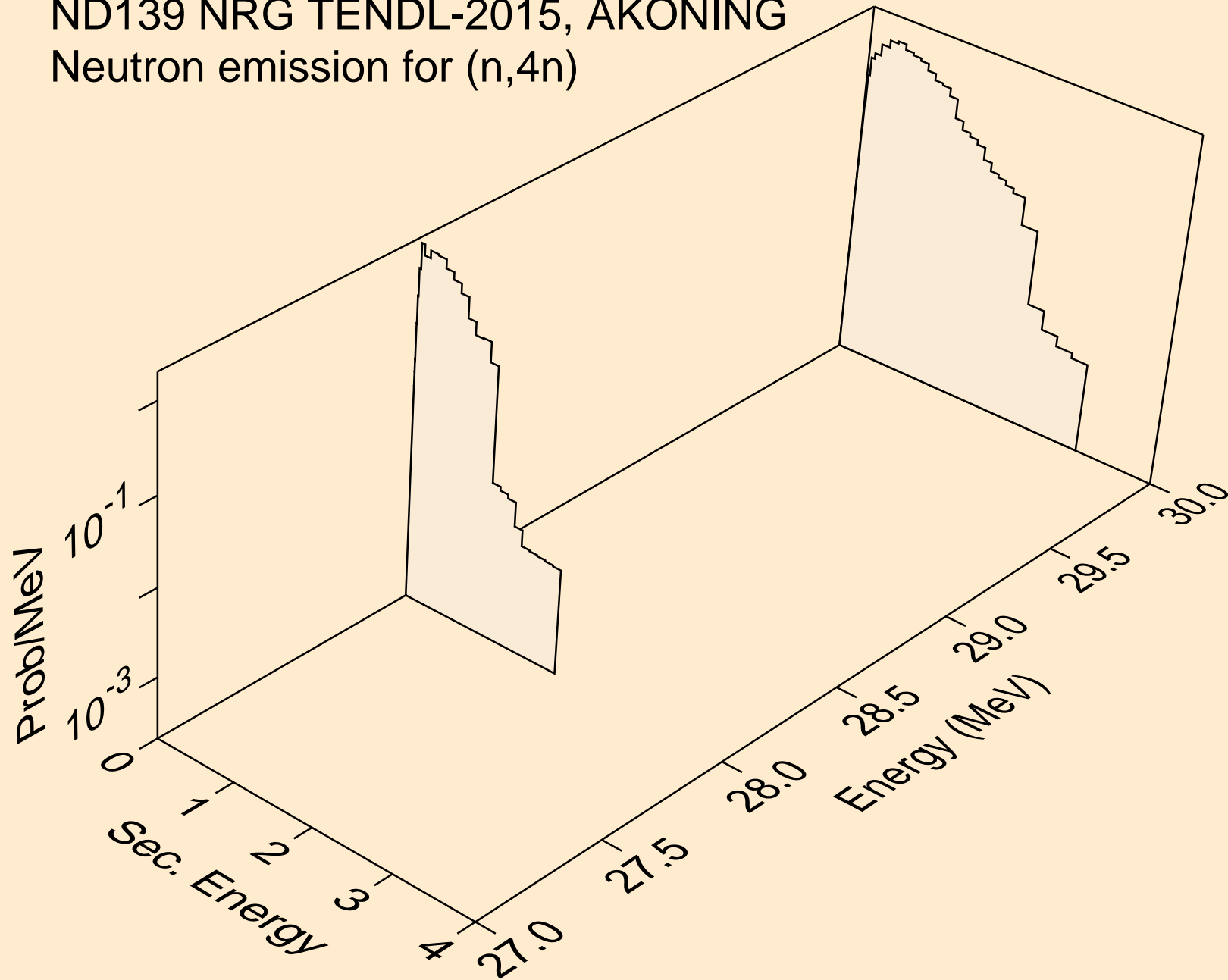
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t



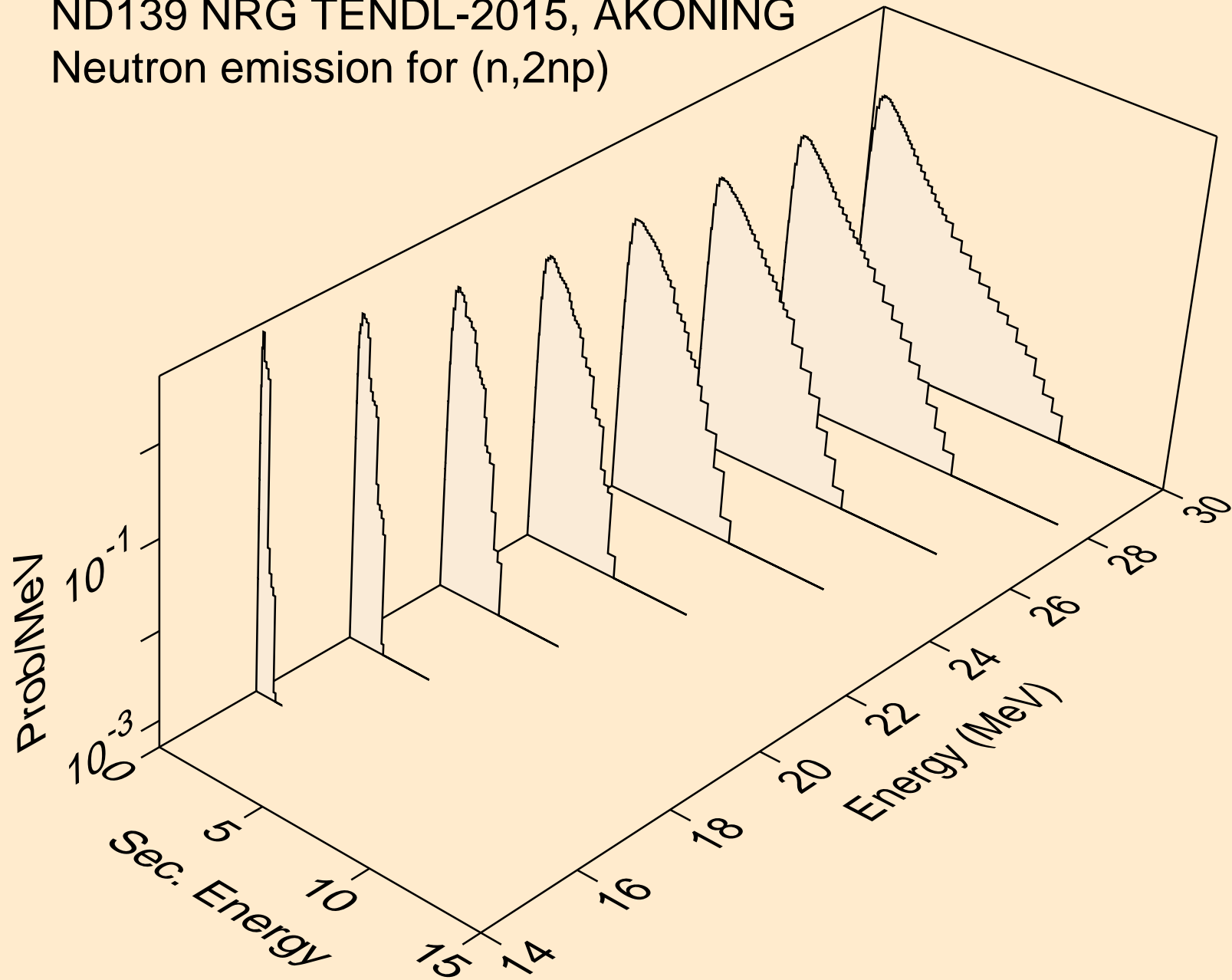
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)he3



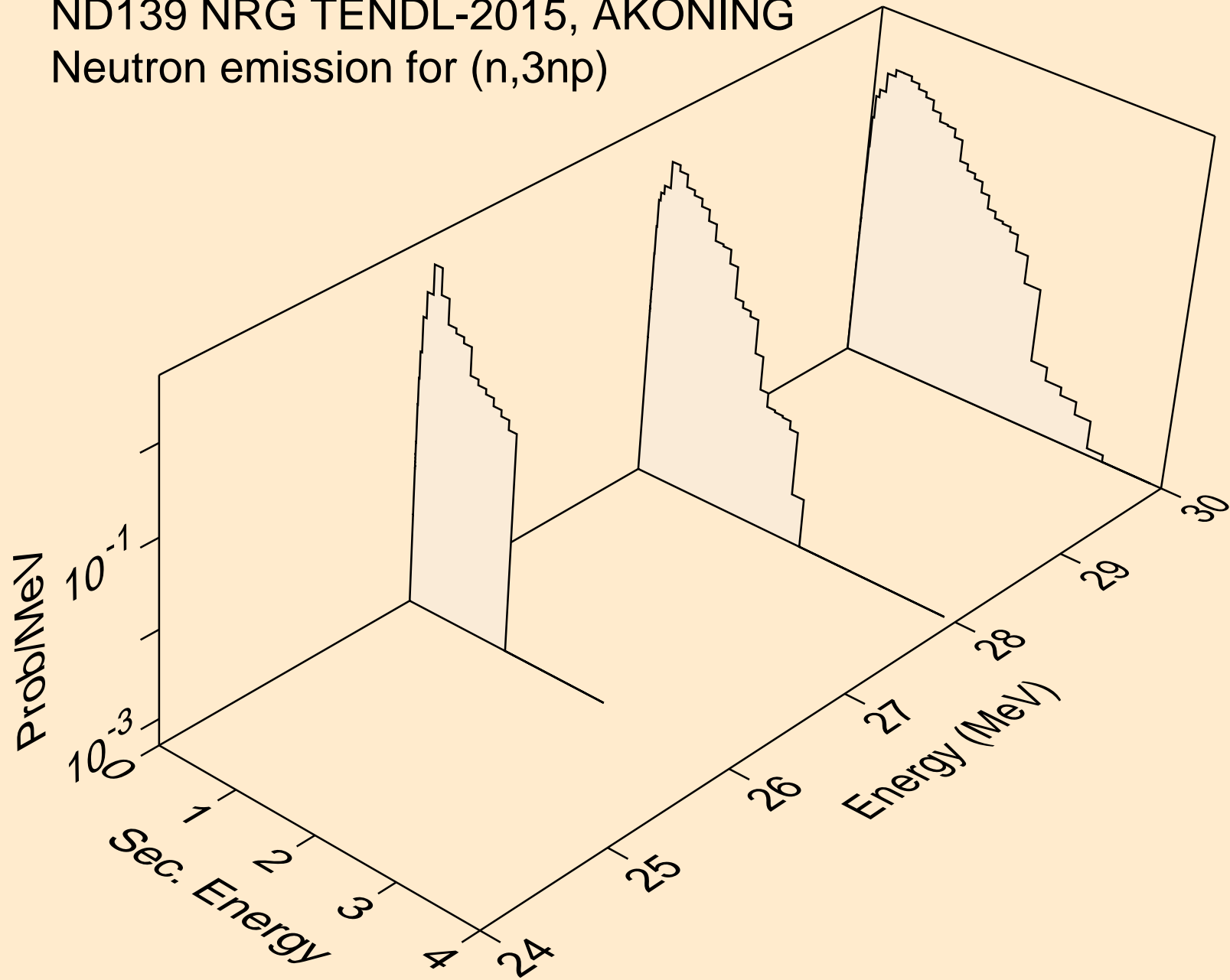
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,4n)



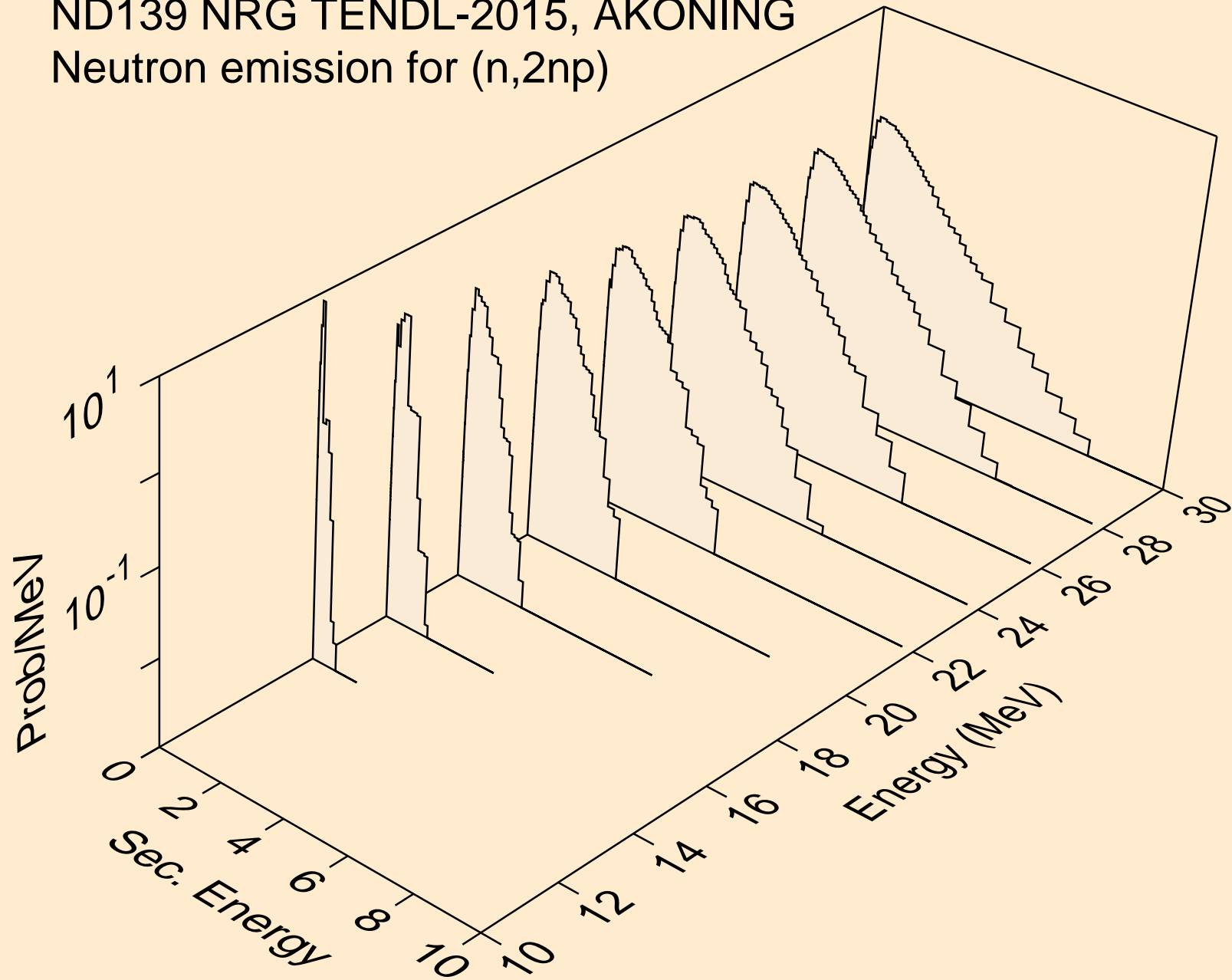
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



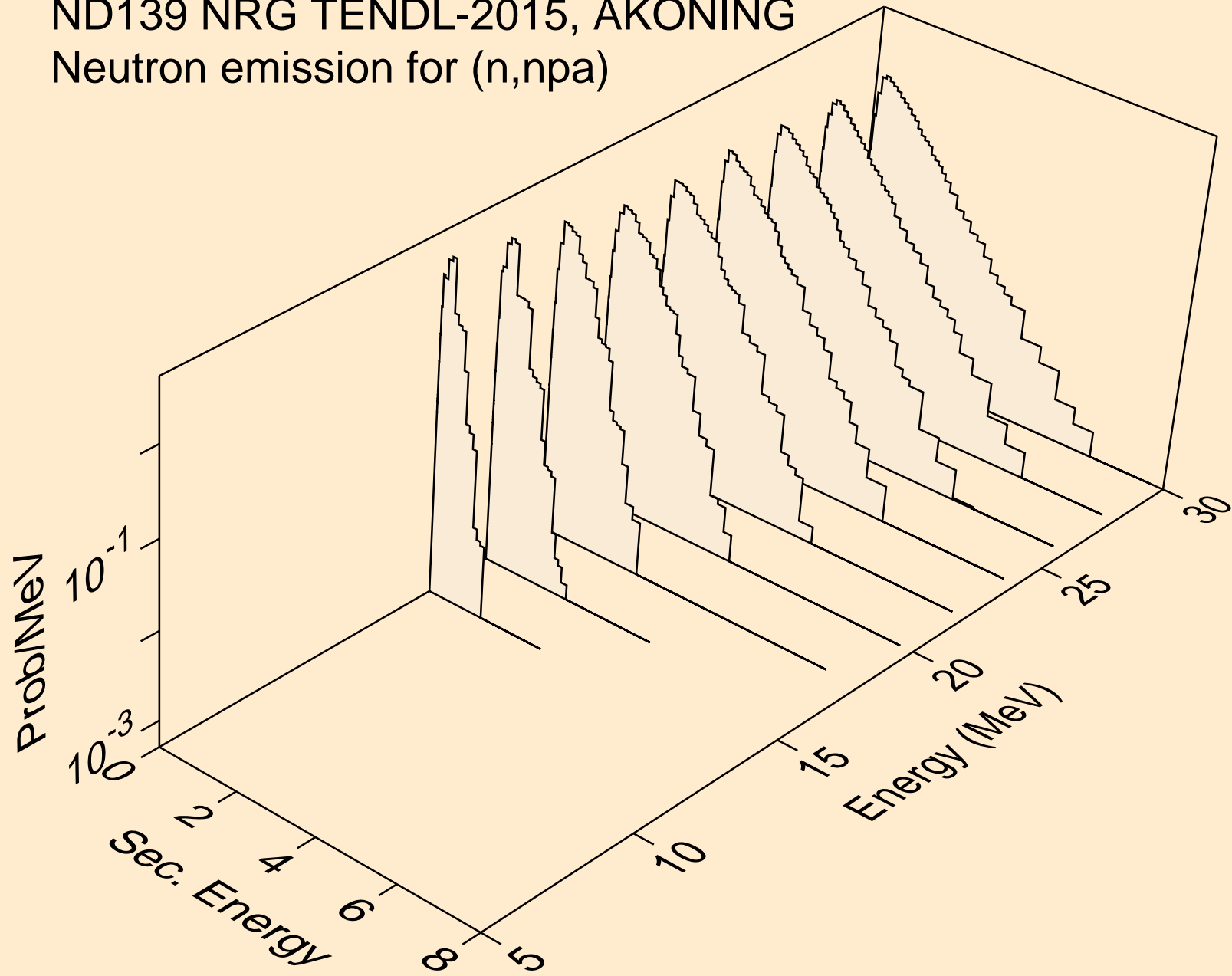
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,3np)



ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)

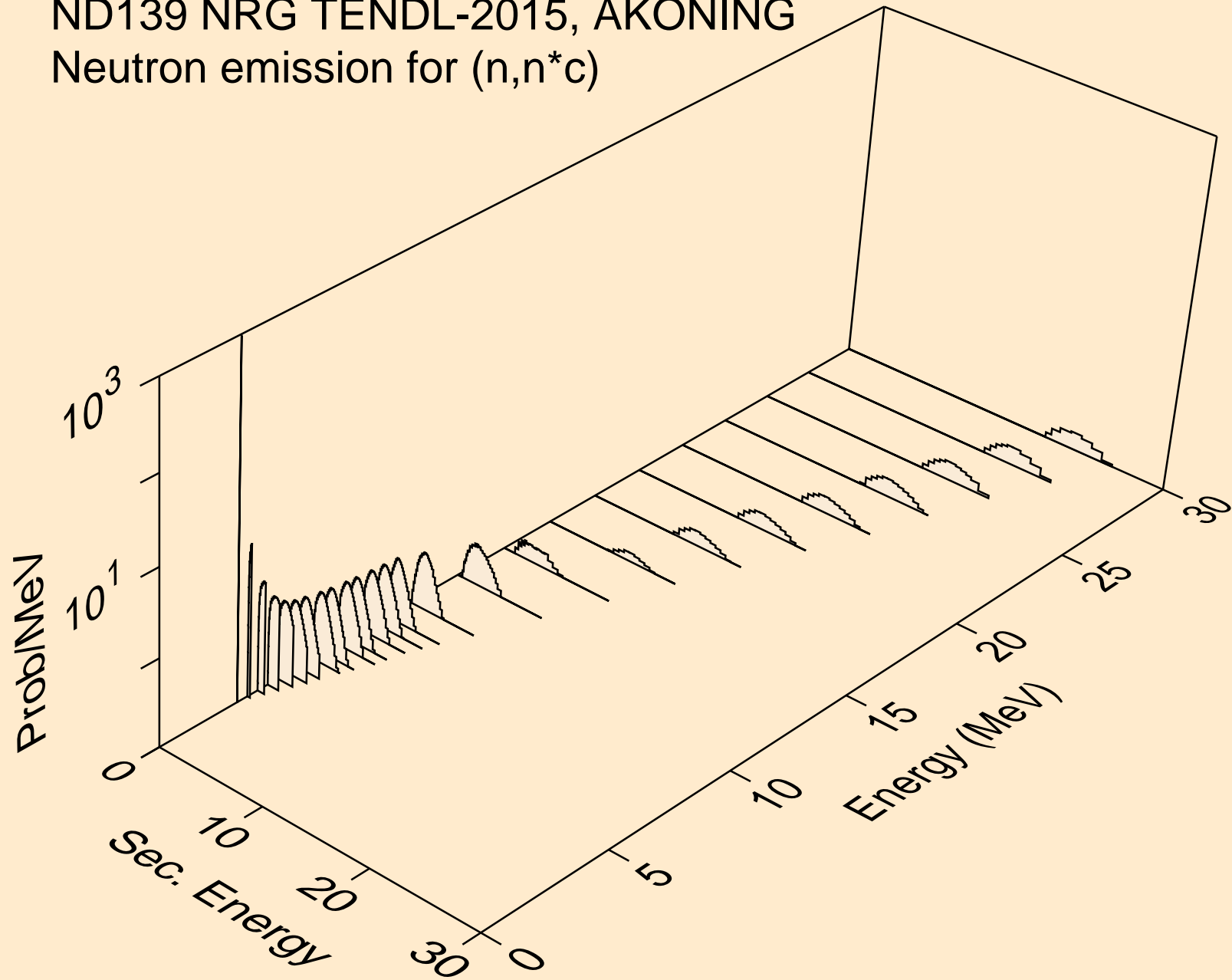


ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,npa)

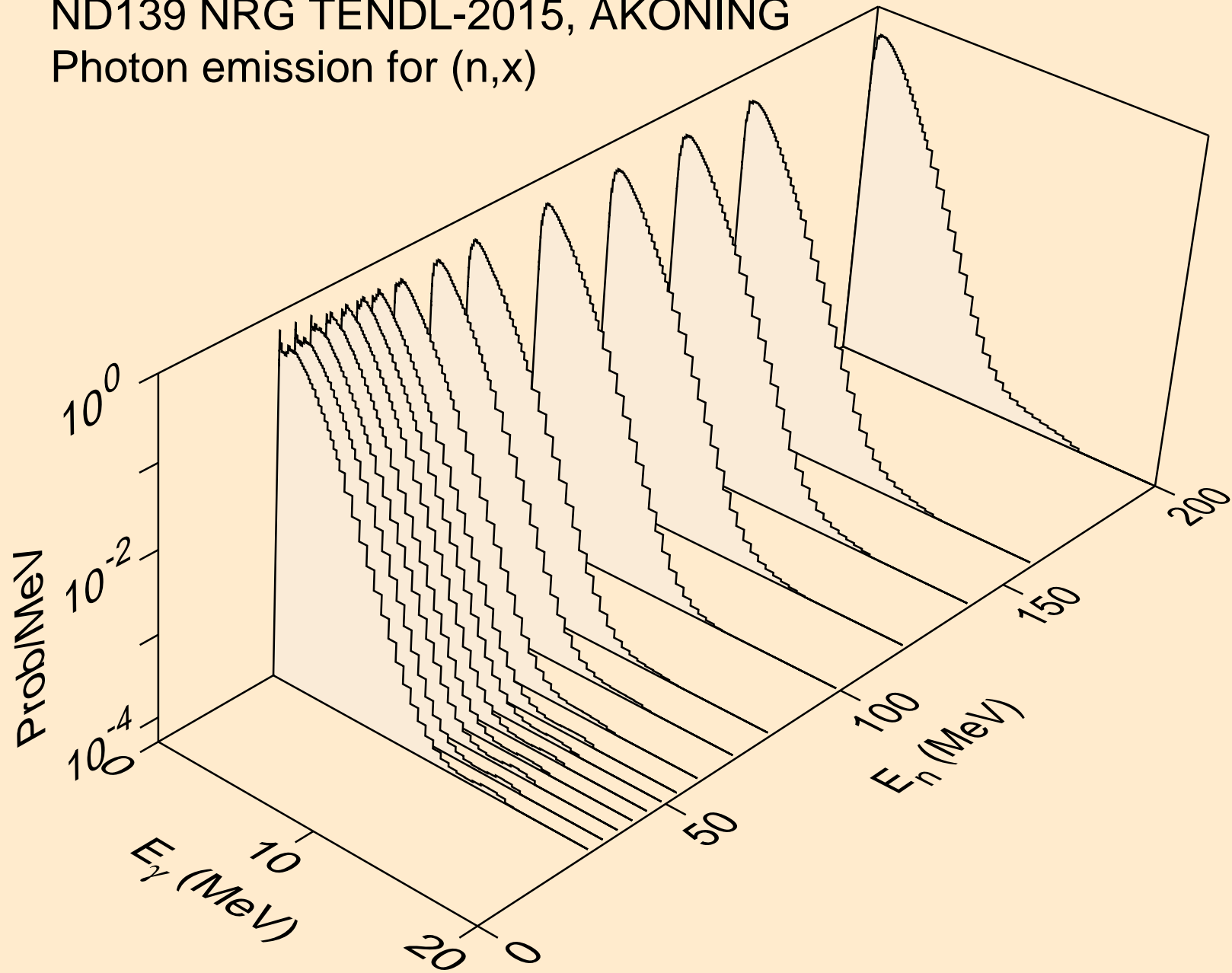




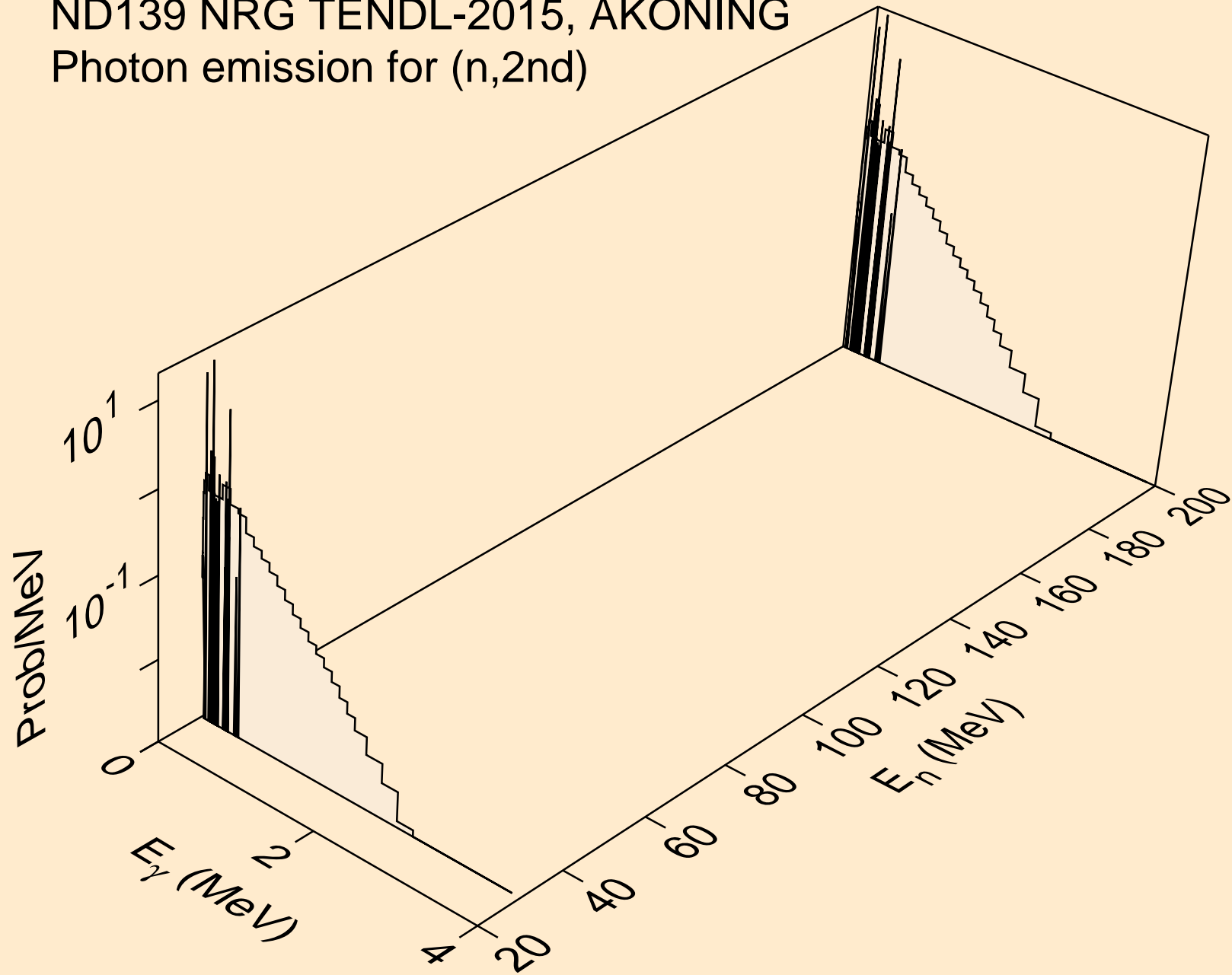
ND139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*c)



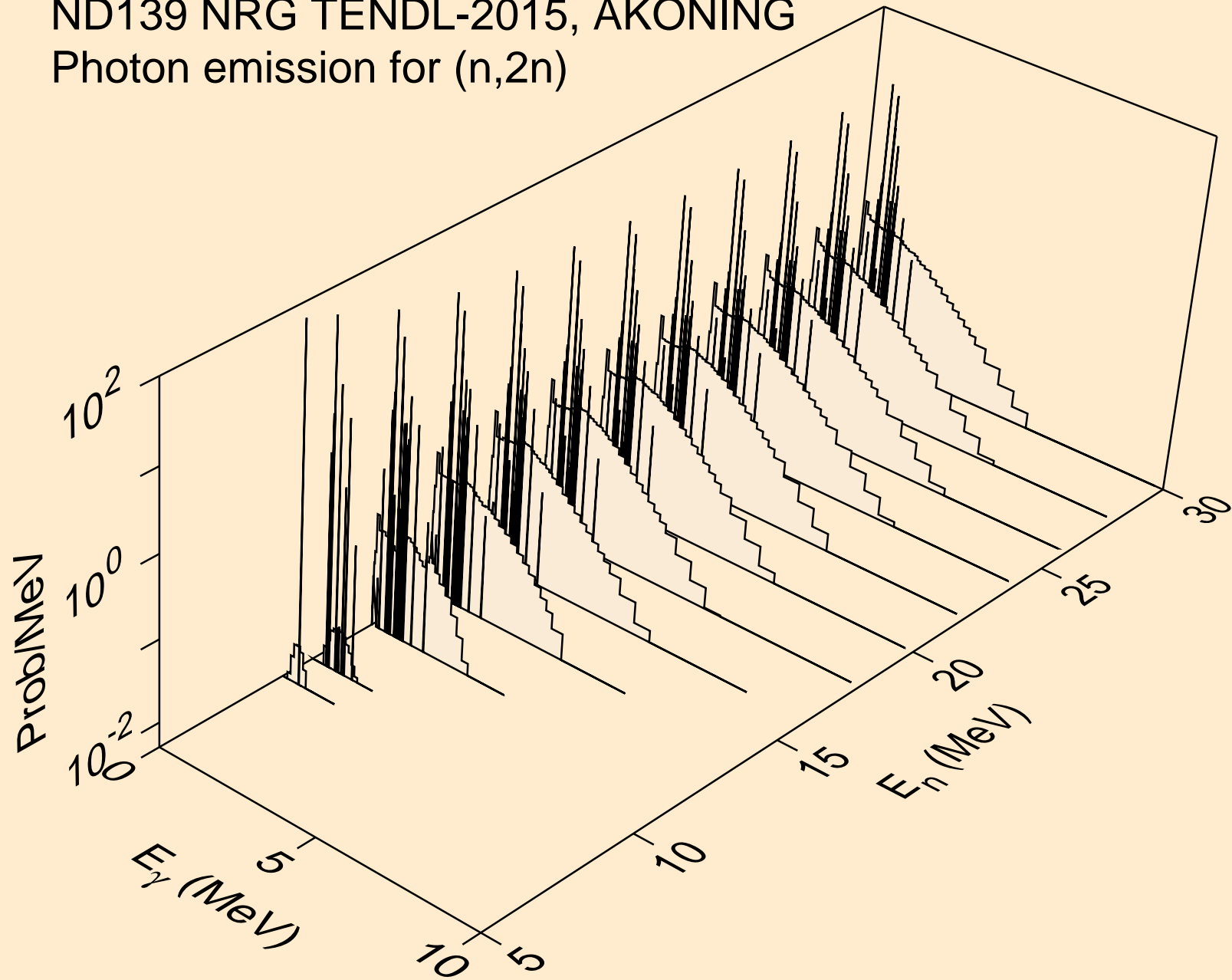
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,x)



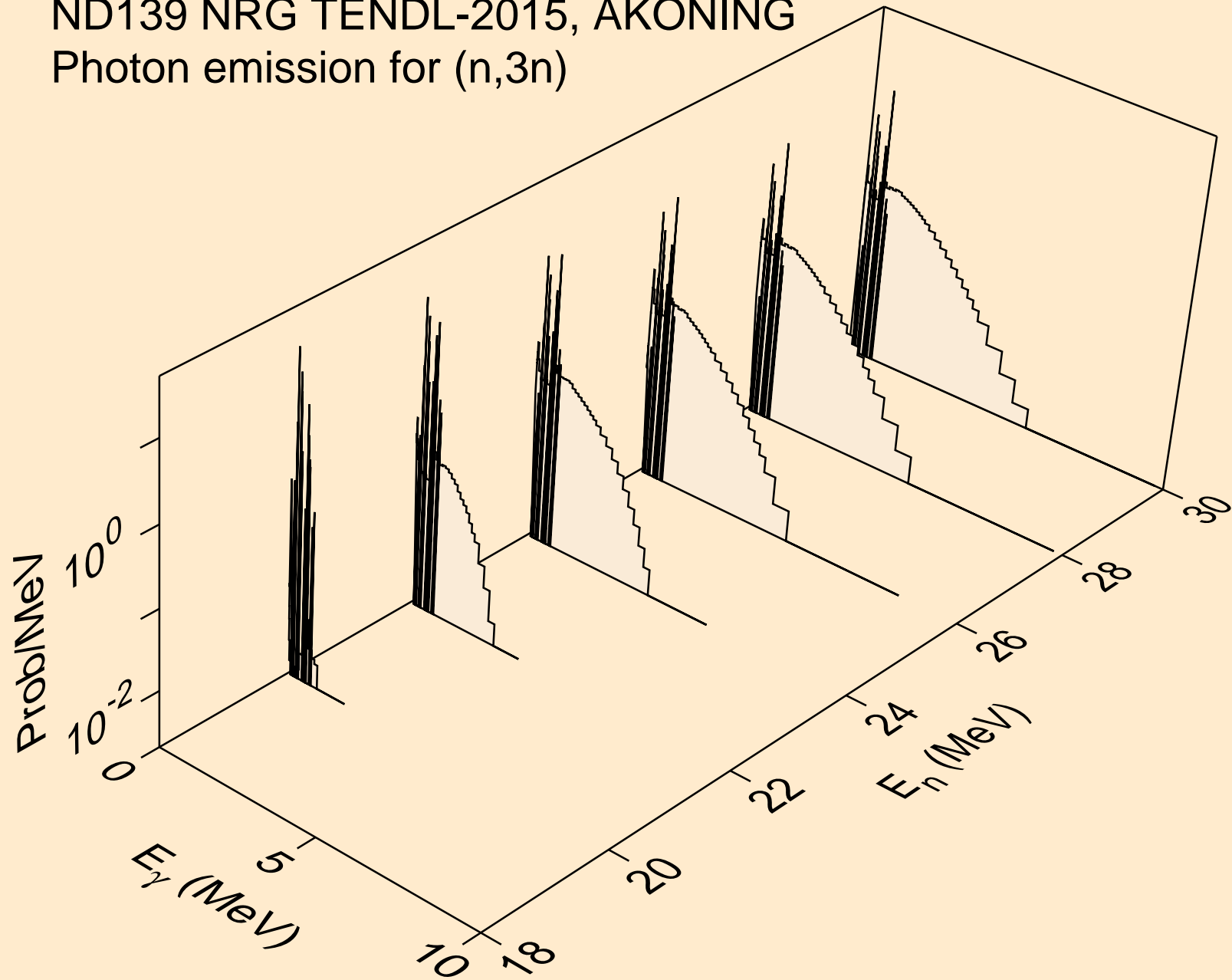
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,2nd)



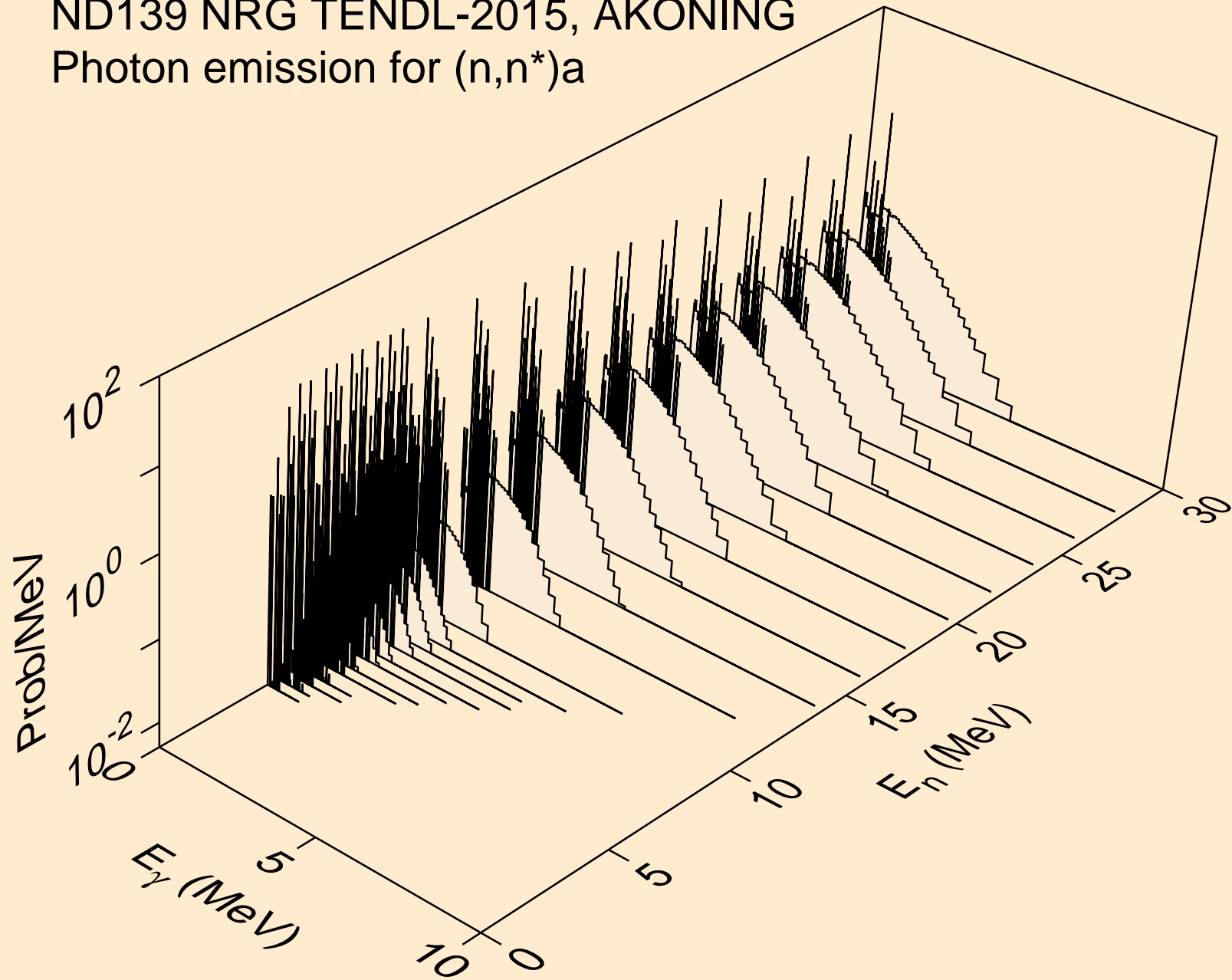
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)



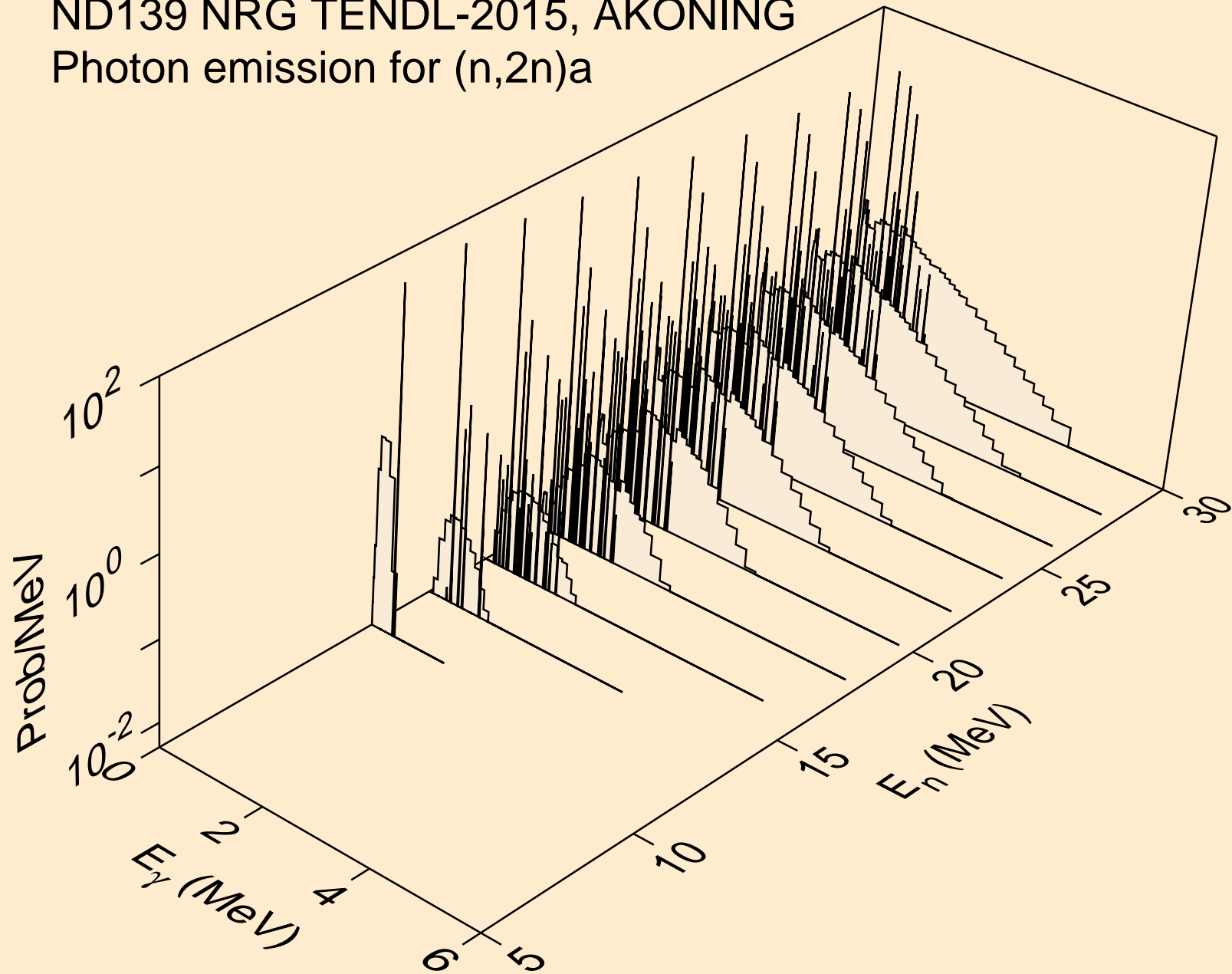
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)



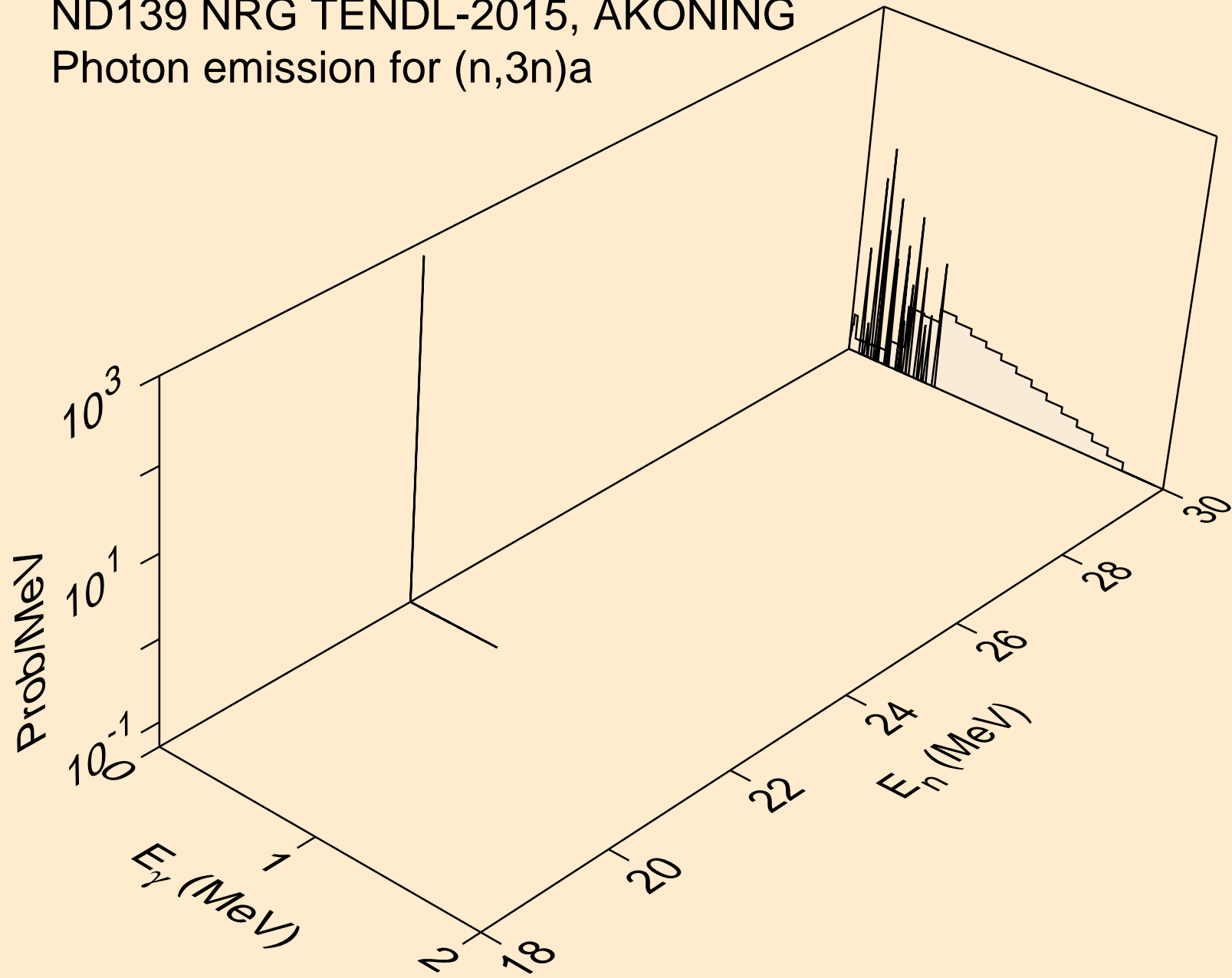
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)a



ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)a

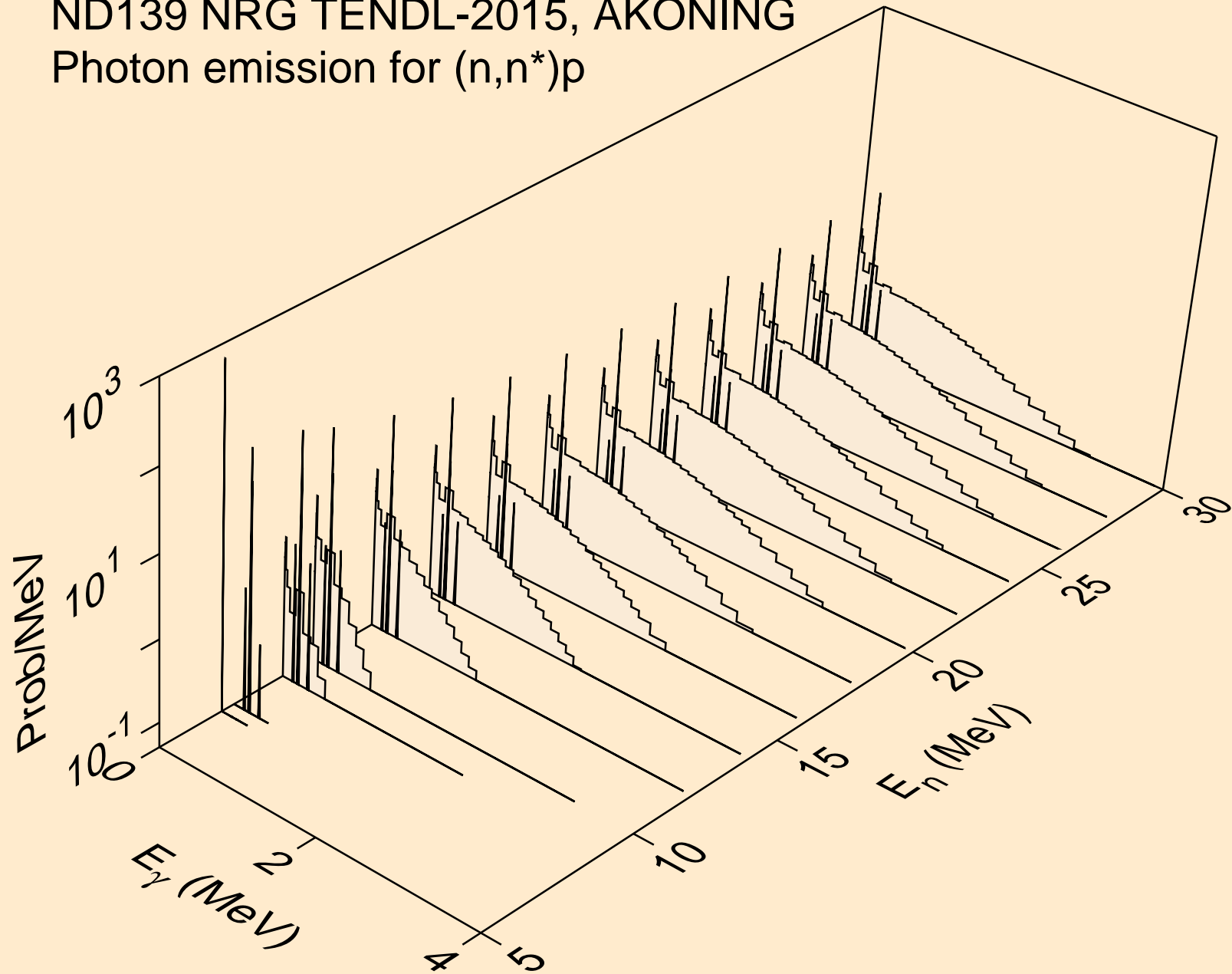


ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)a

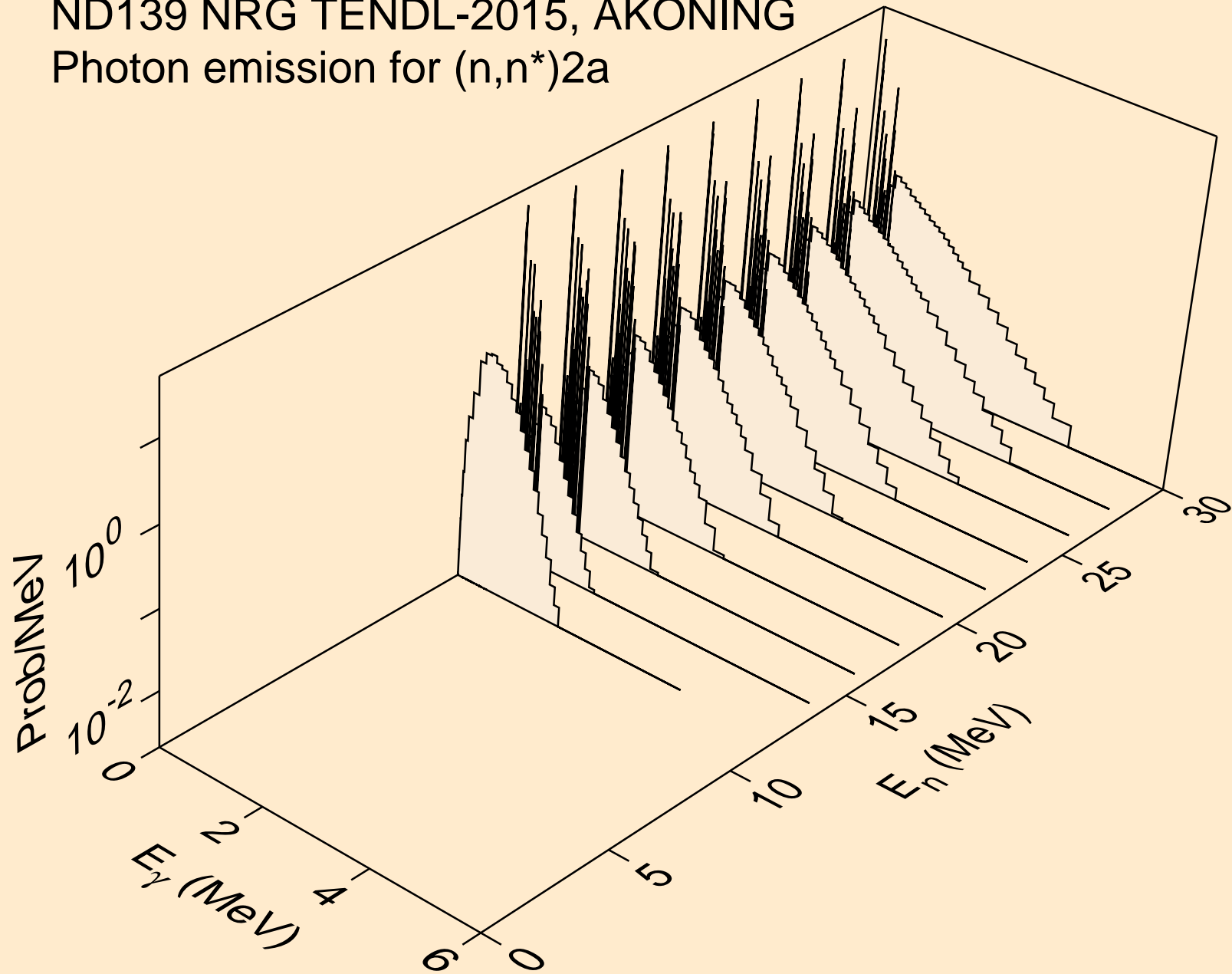




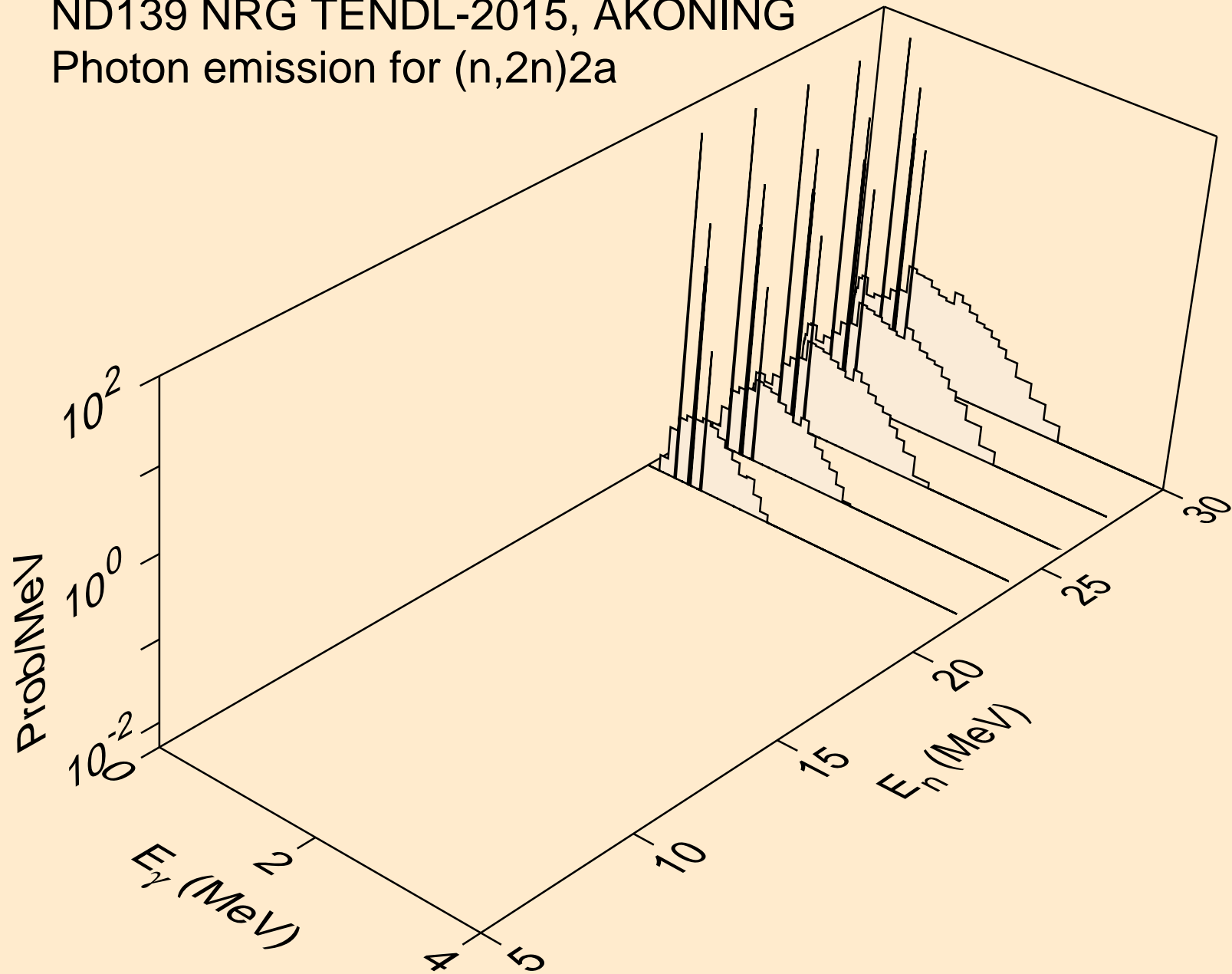
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)p



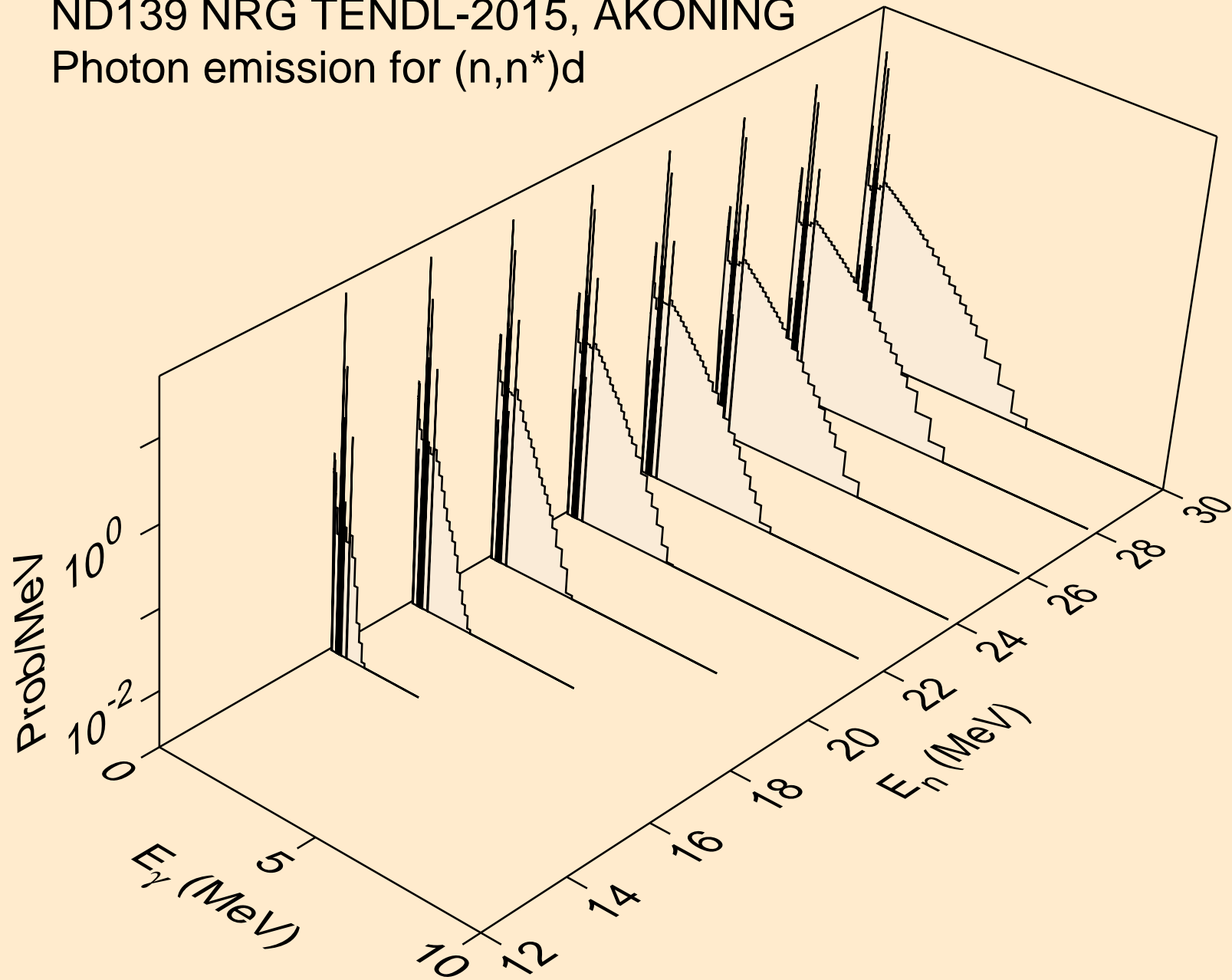
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)2a



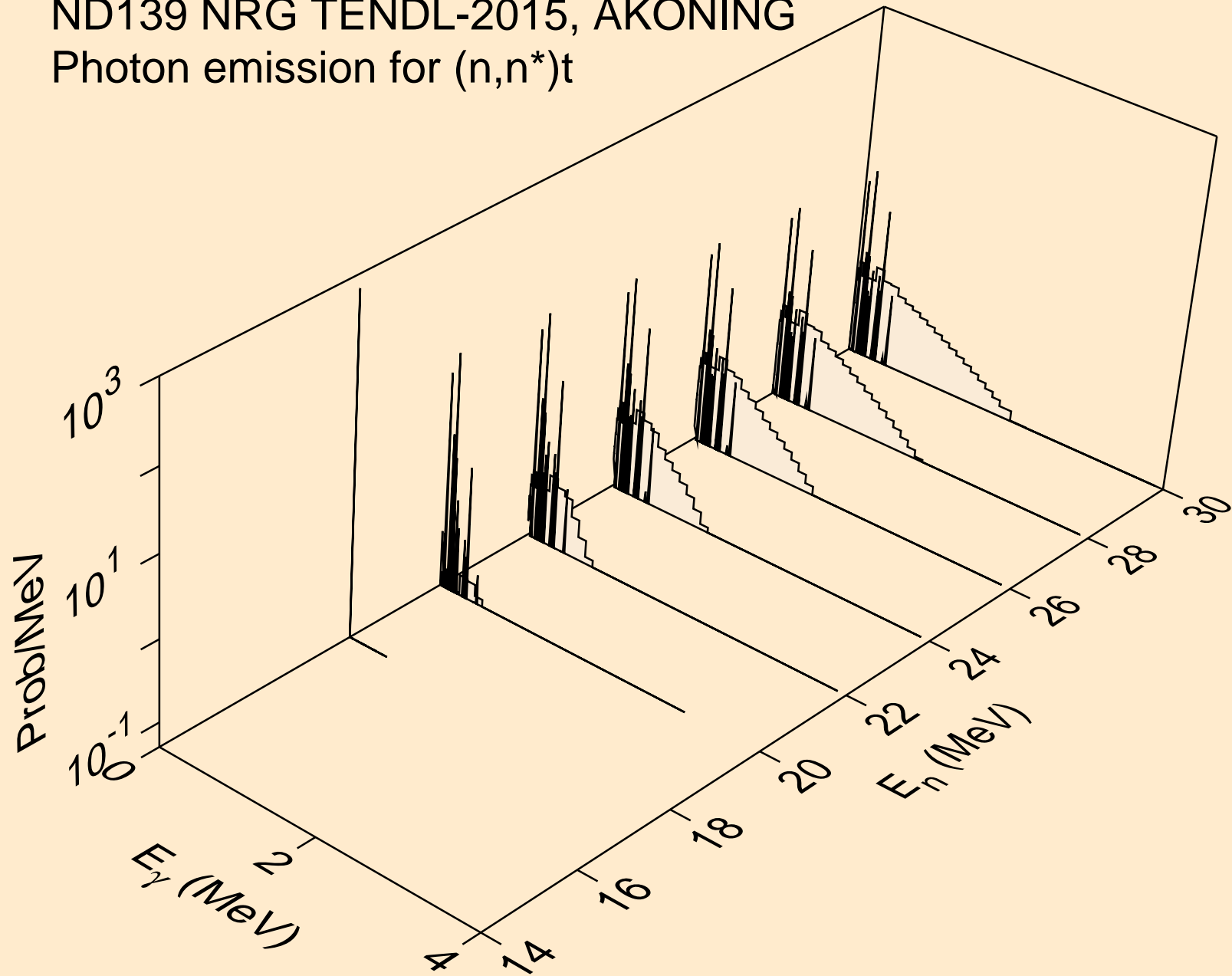
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)2a



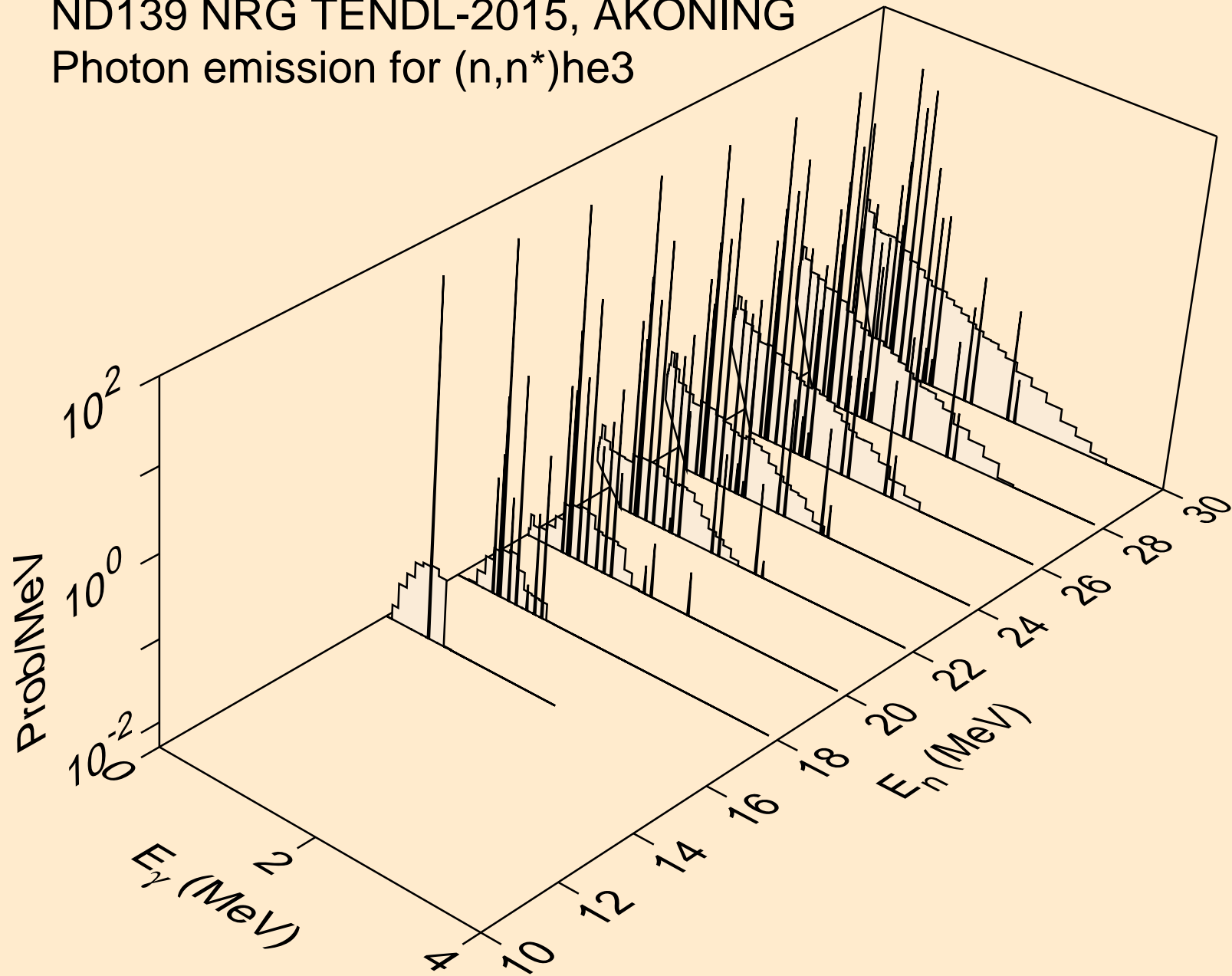
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d



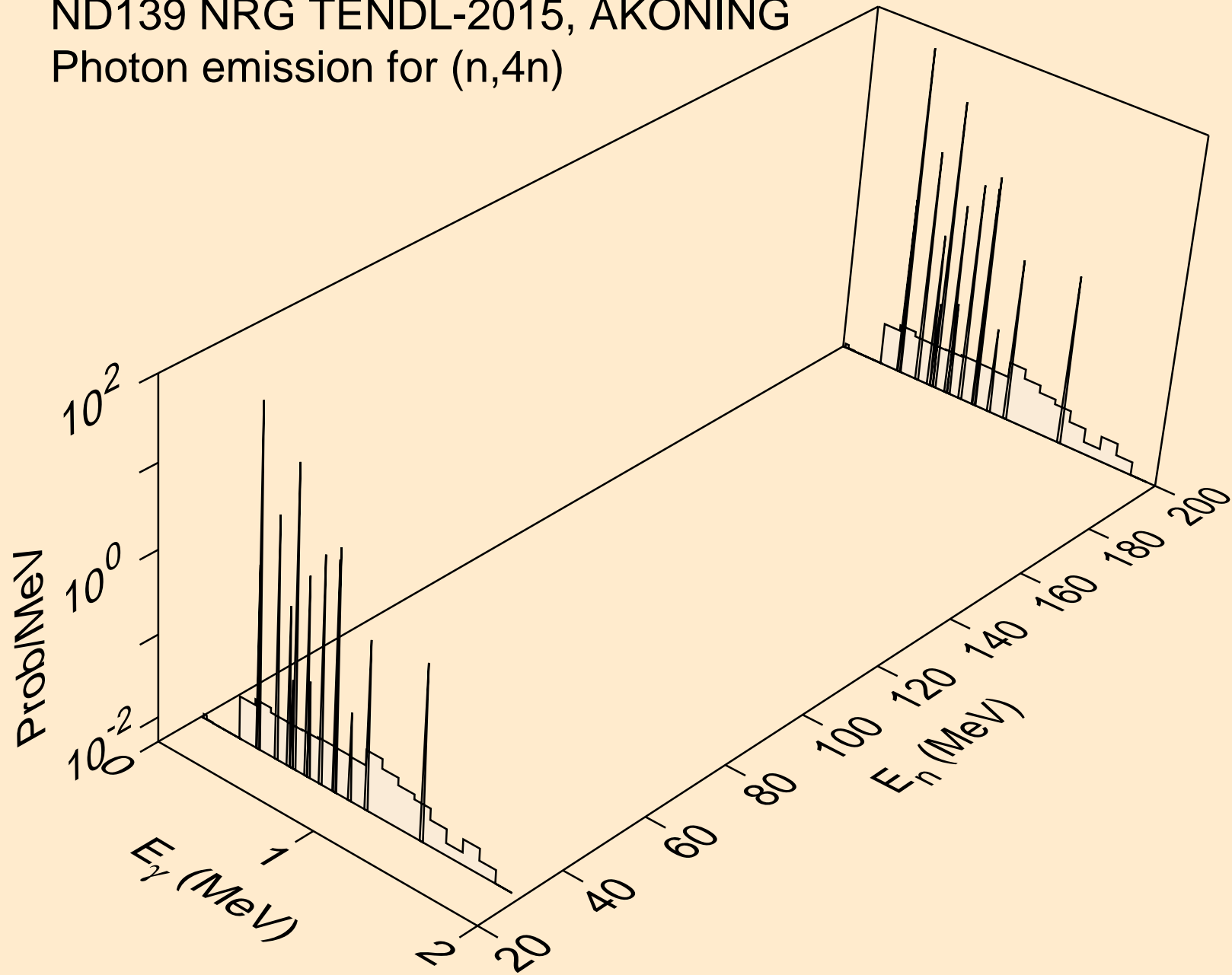
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t



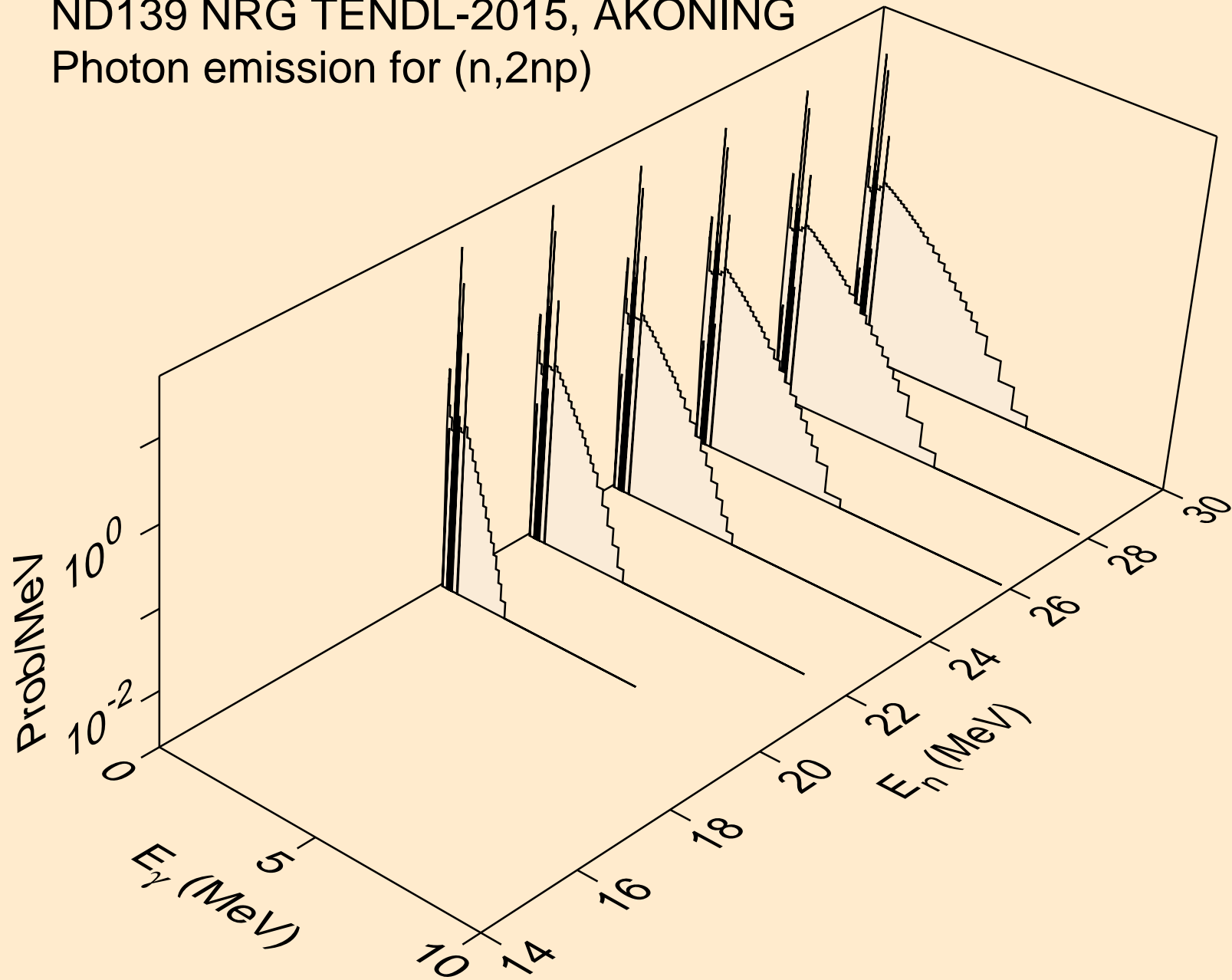
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)he3



ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,4n)

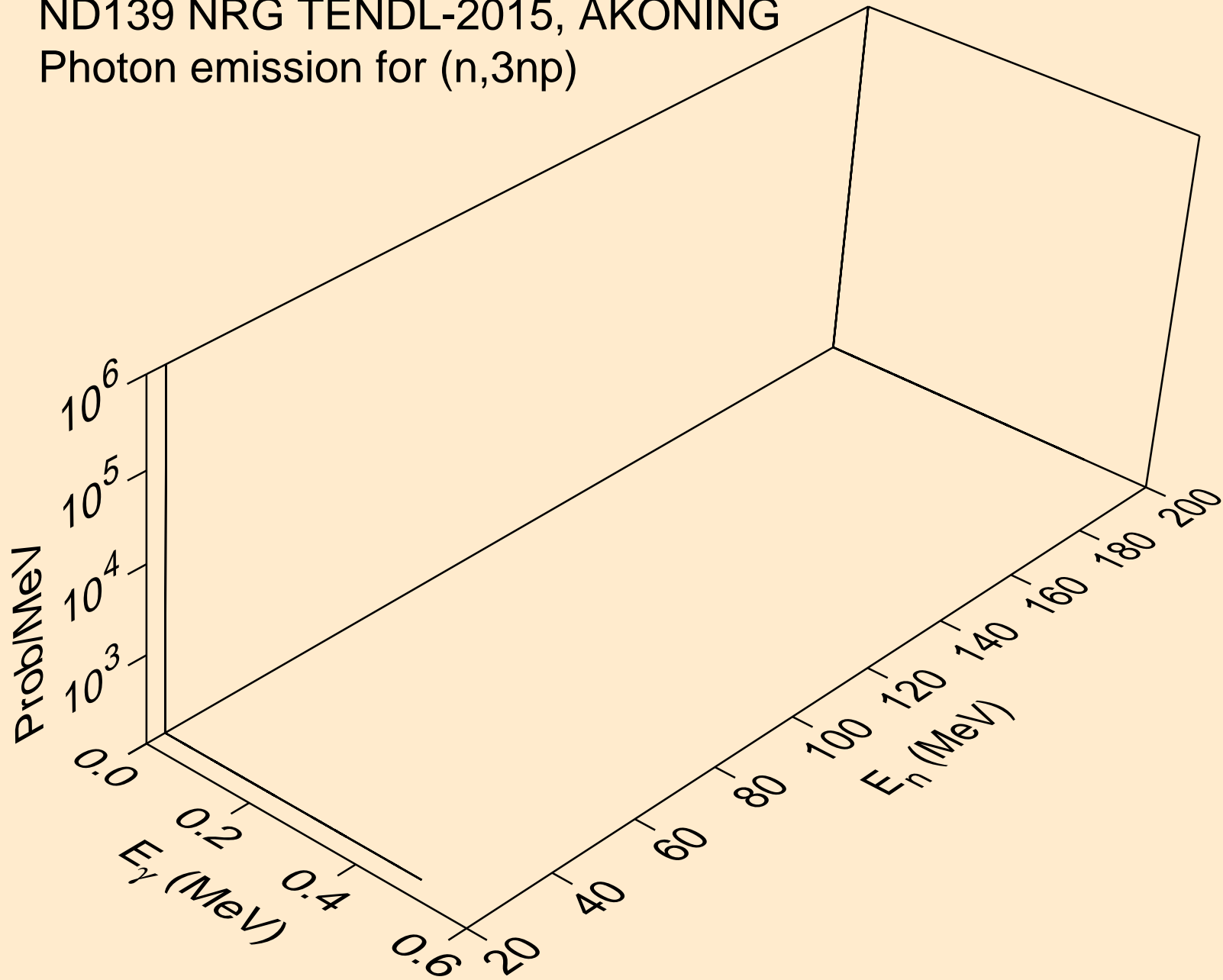


ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)

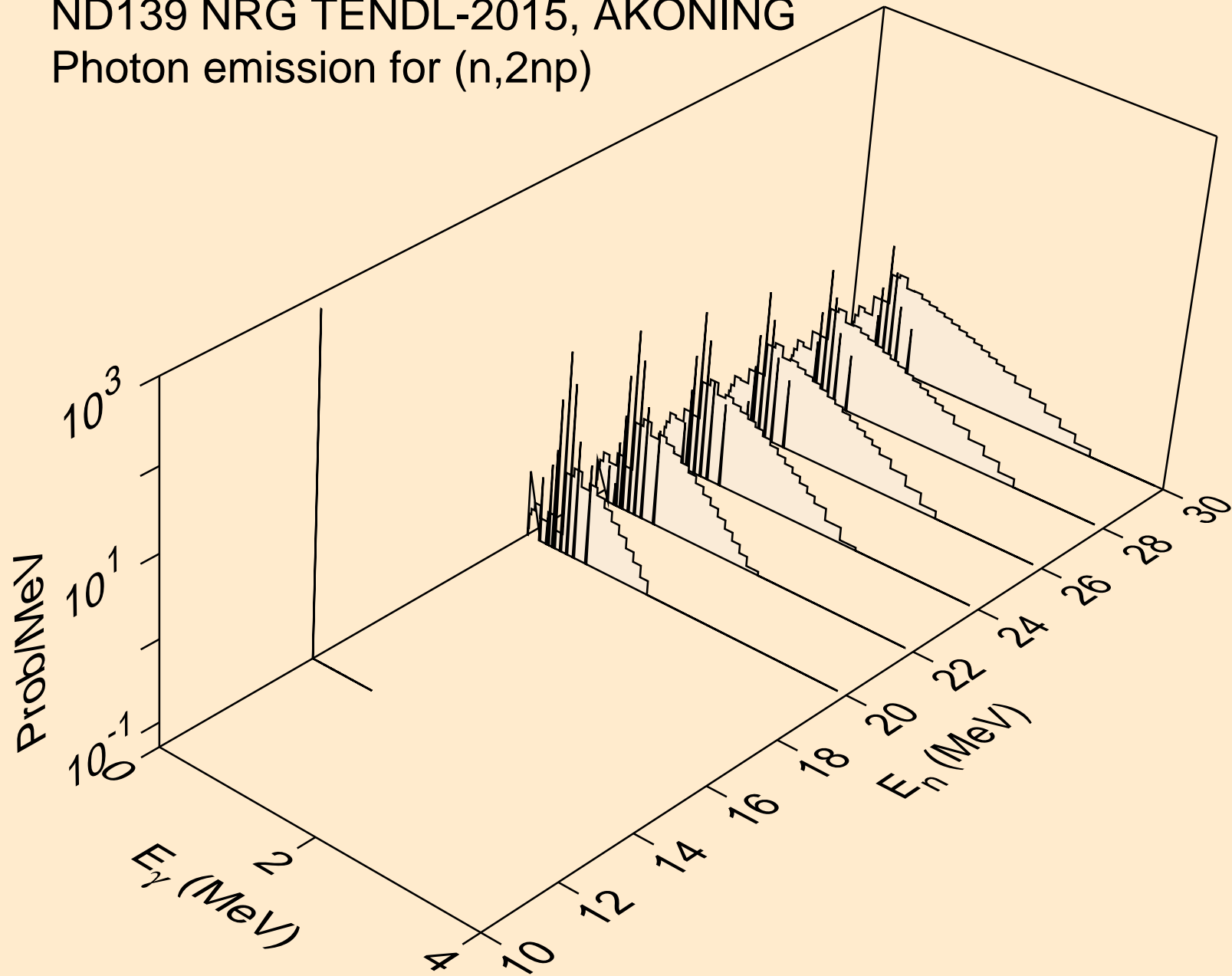




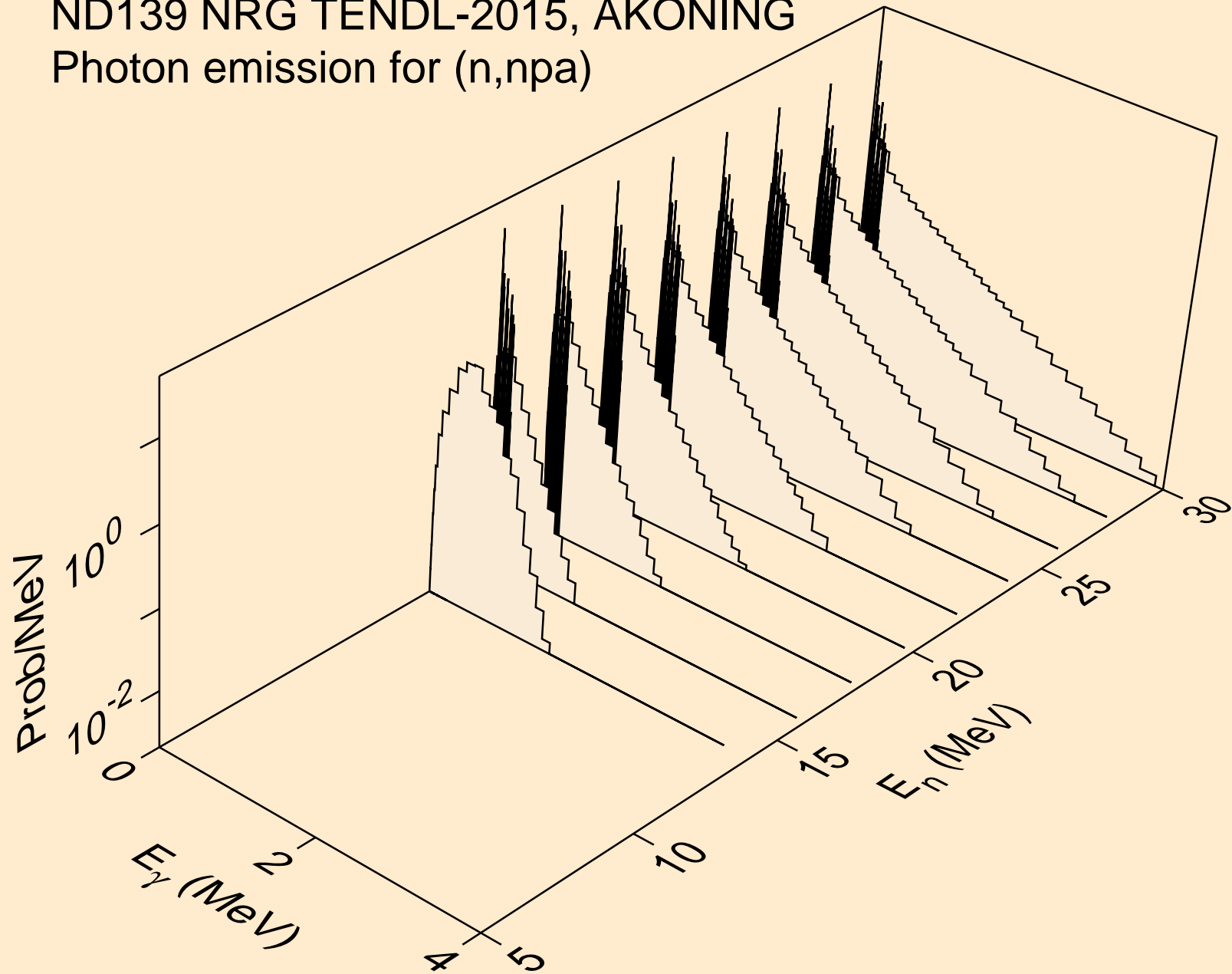
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,3np)



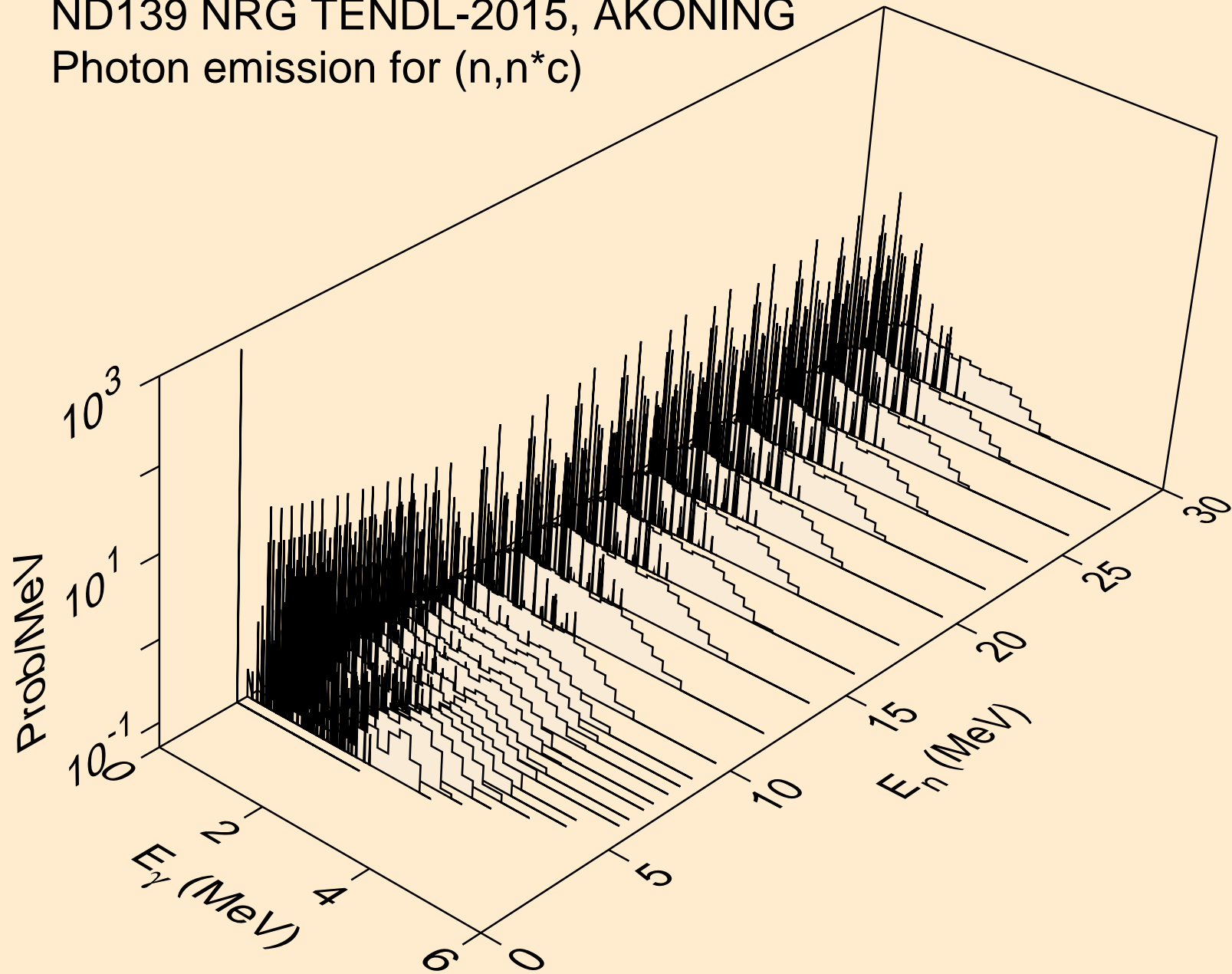
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



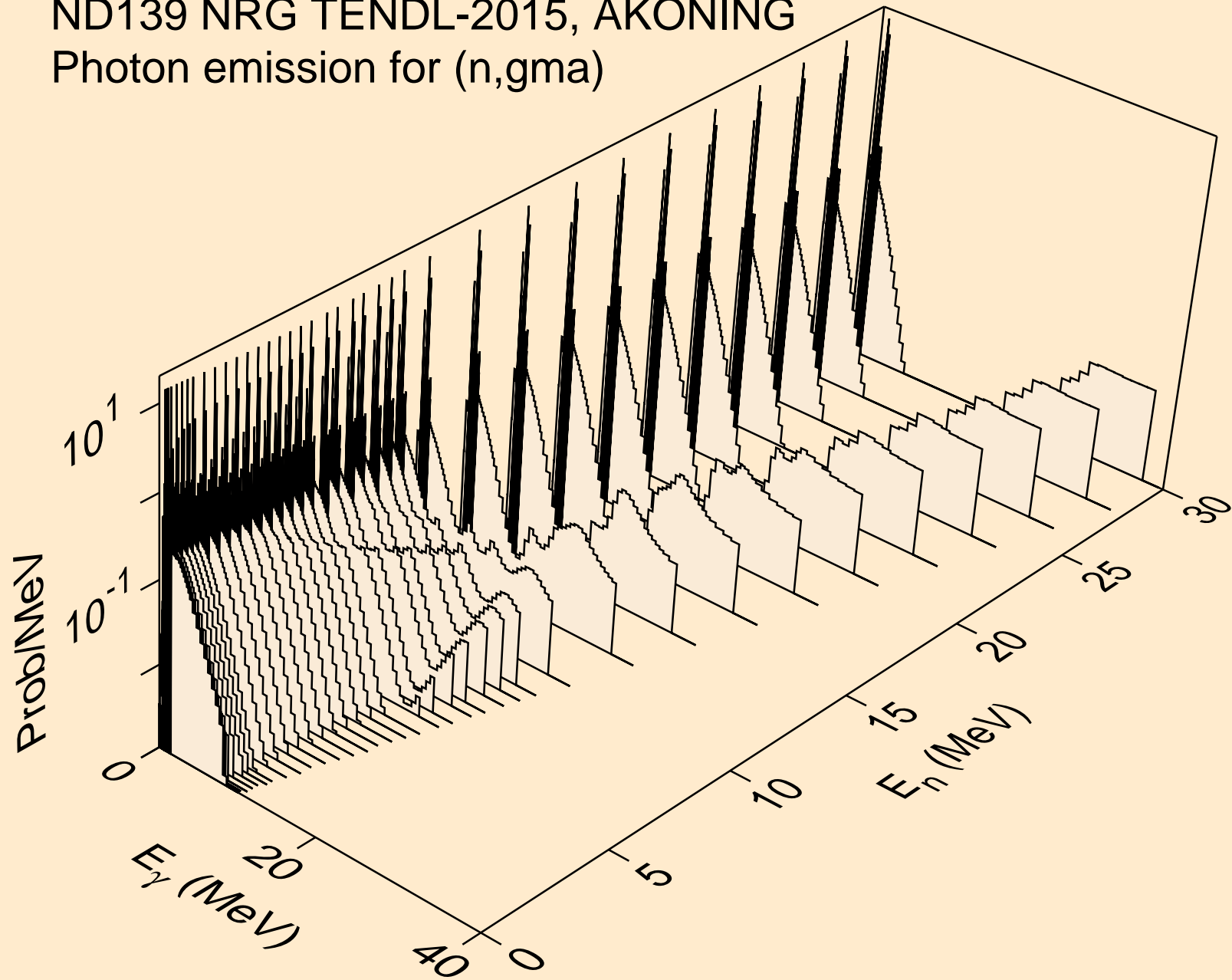
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,npa)



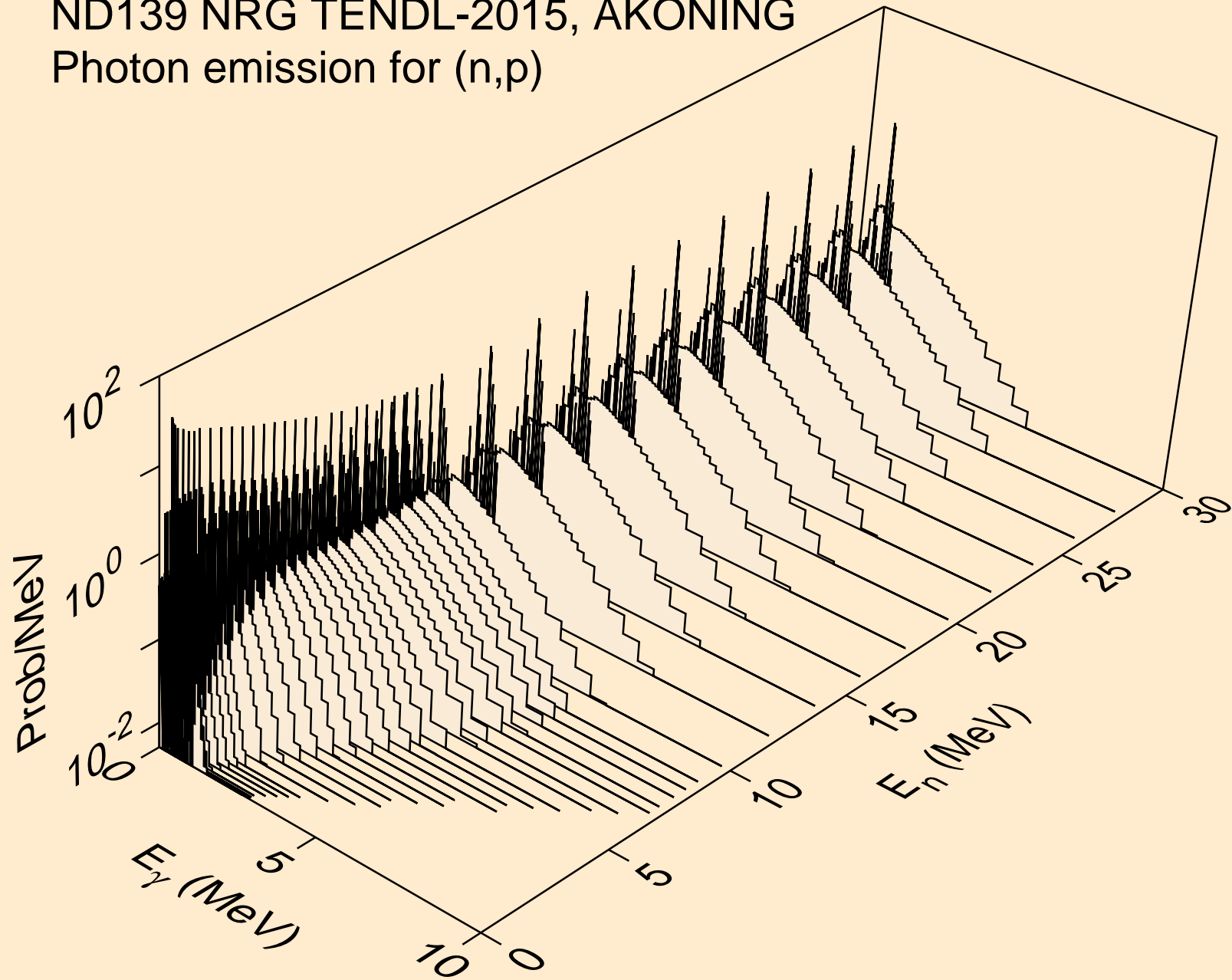
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*c)



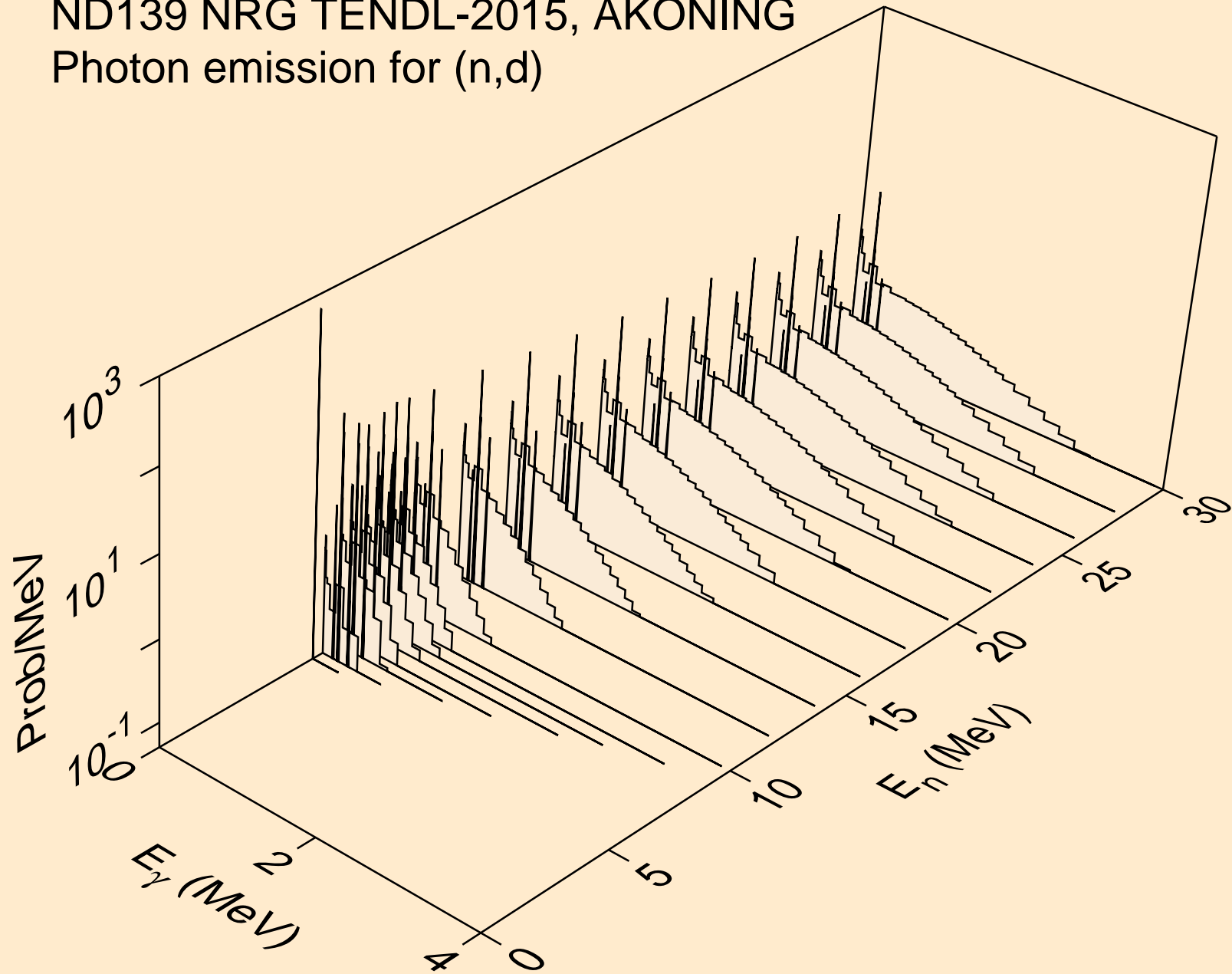
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,gma)



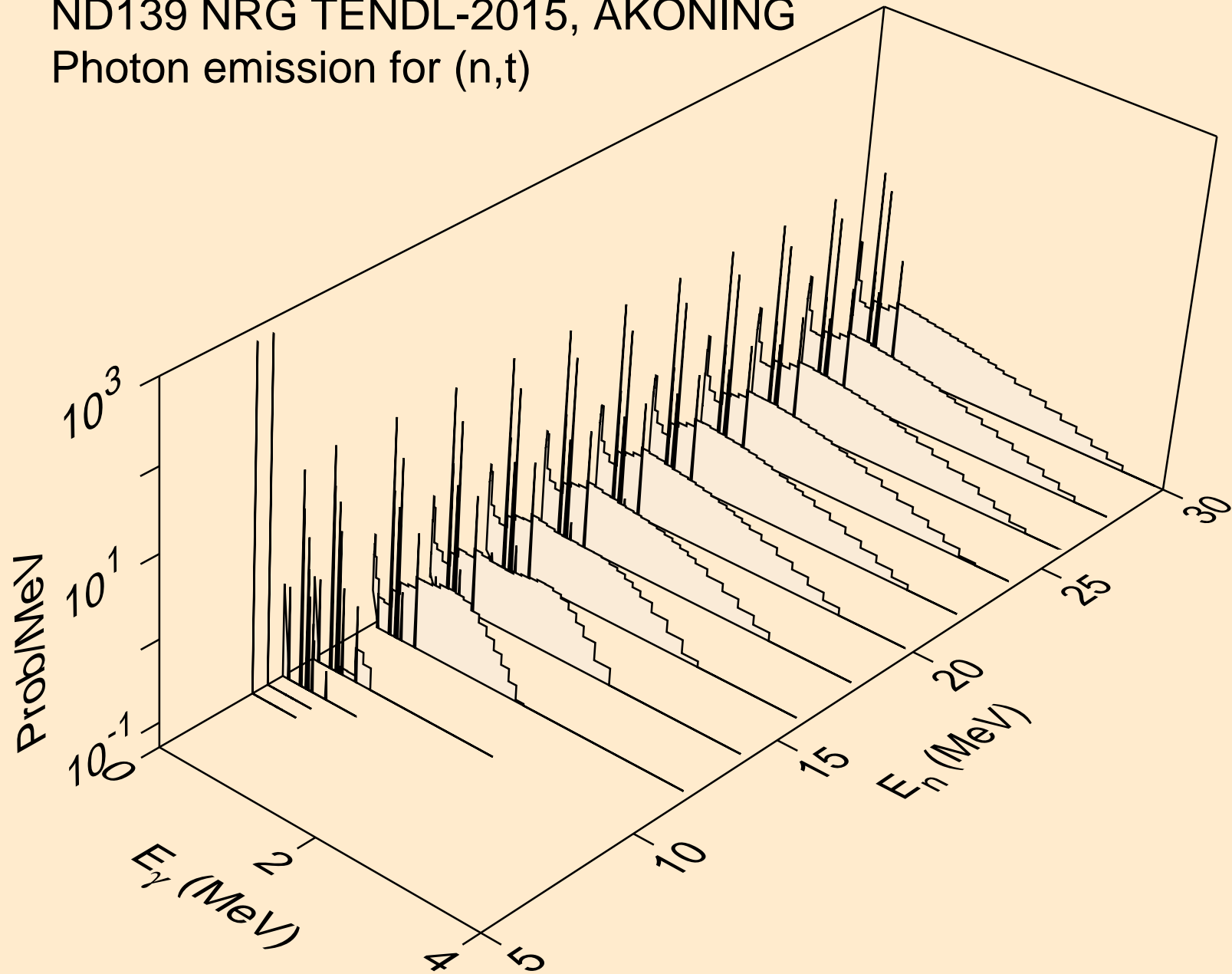
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,p)



ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,d)

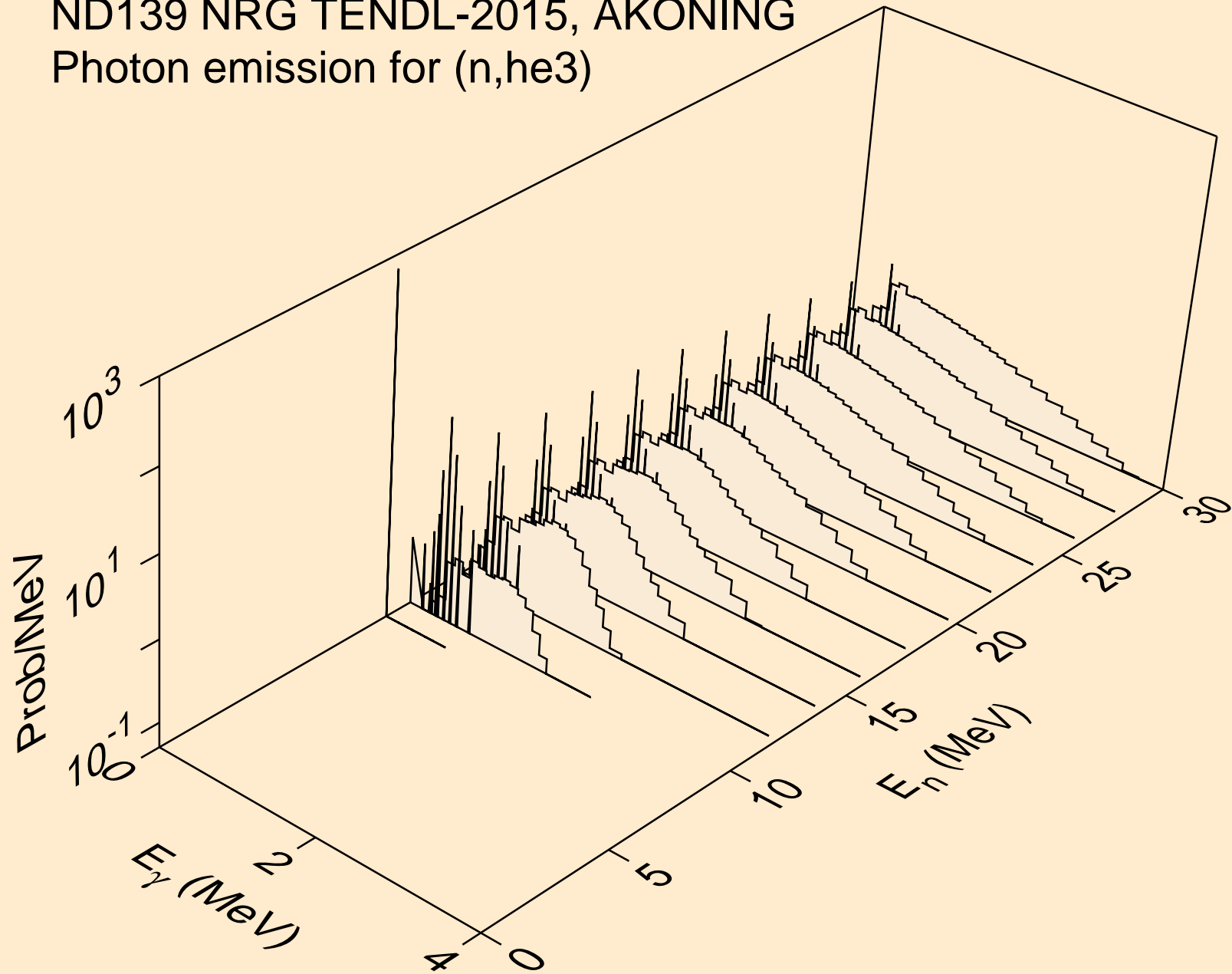


ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,t)

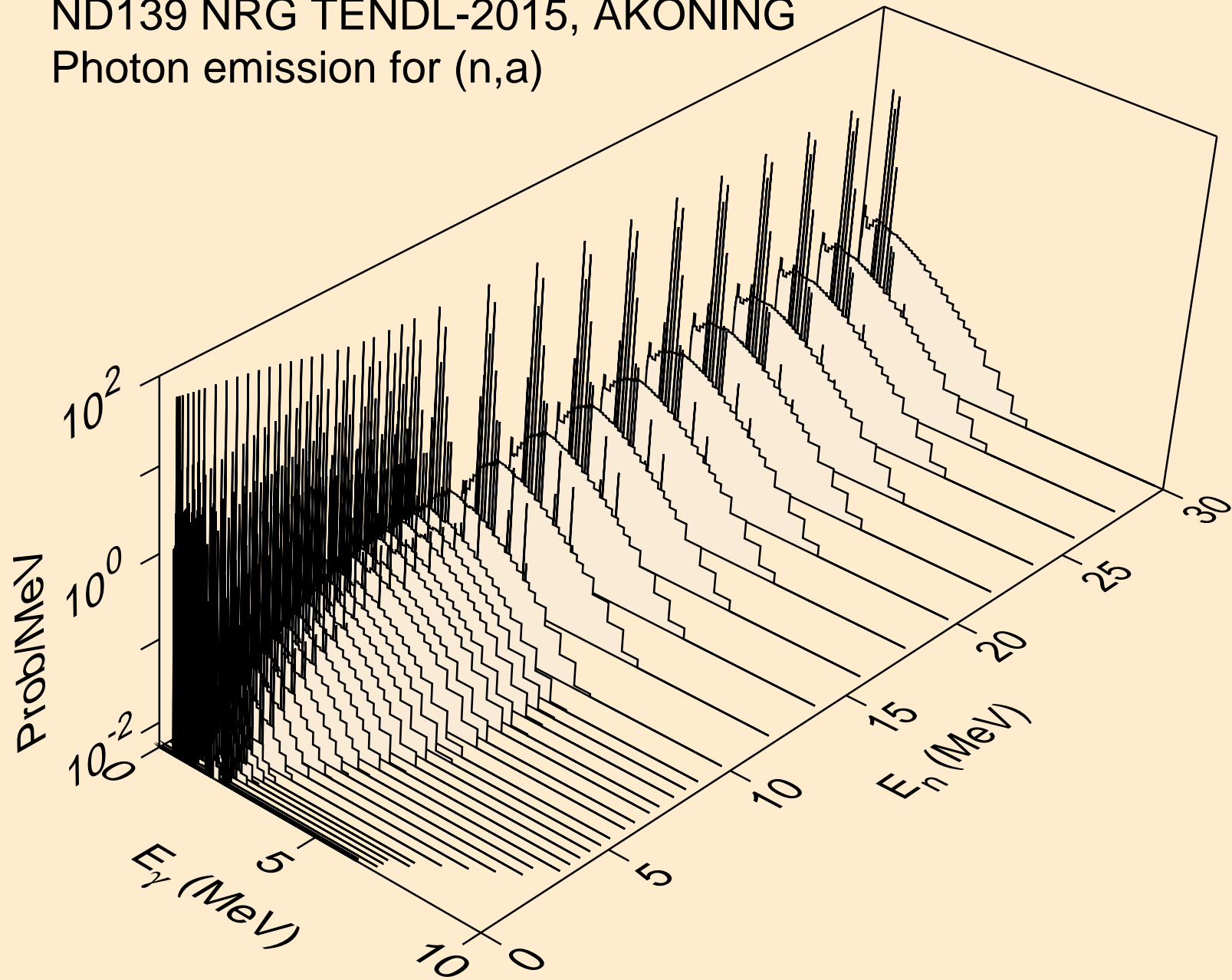




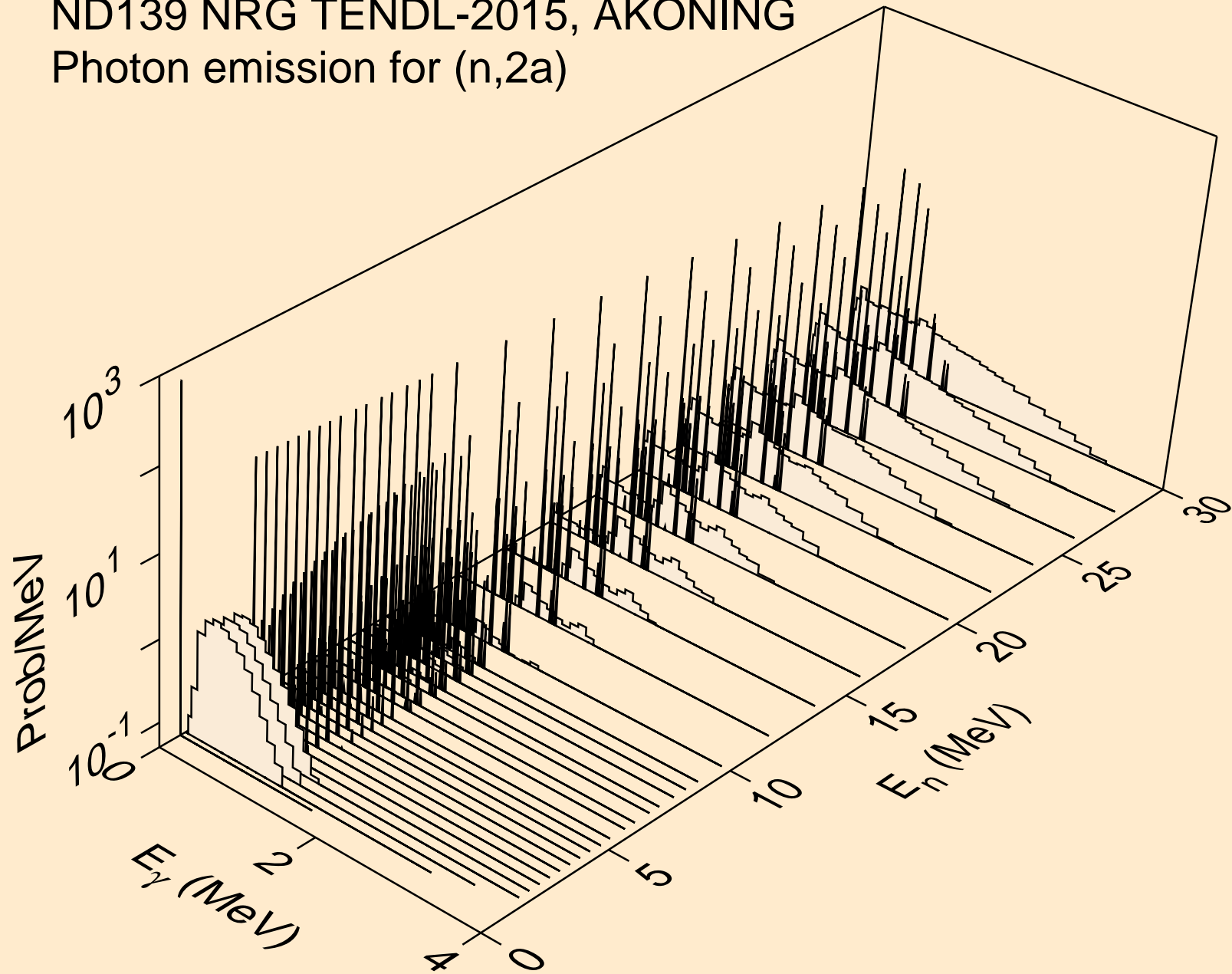
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,he3)



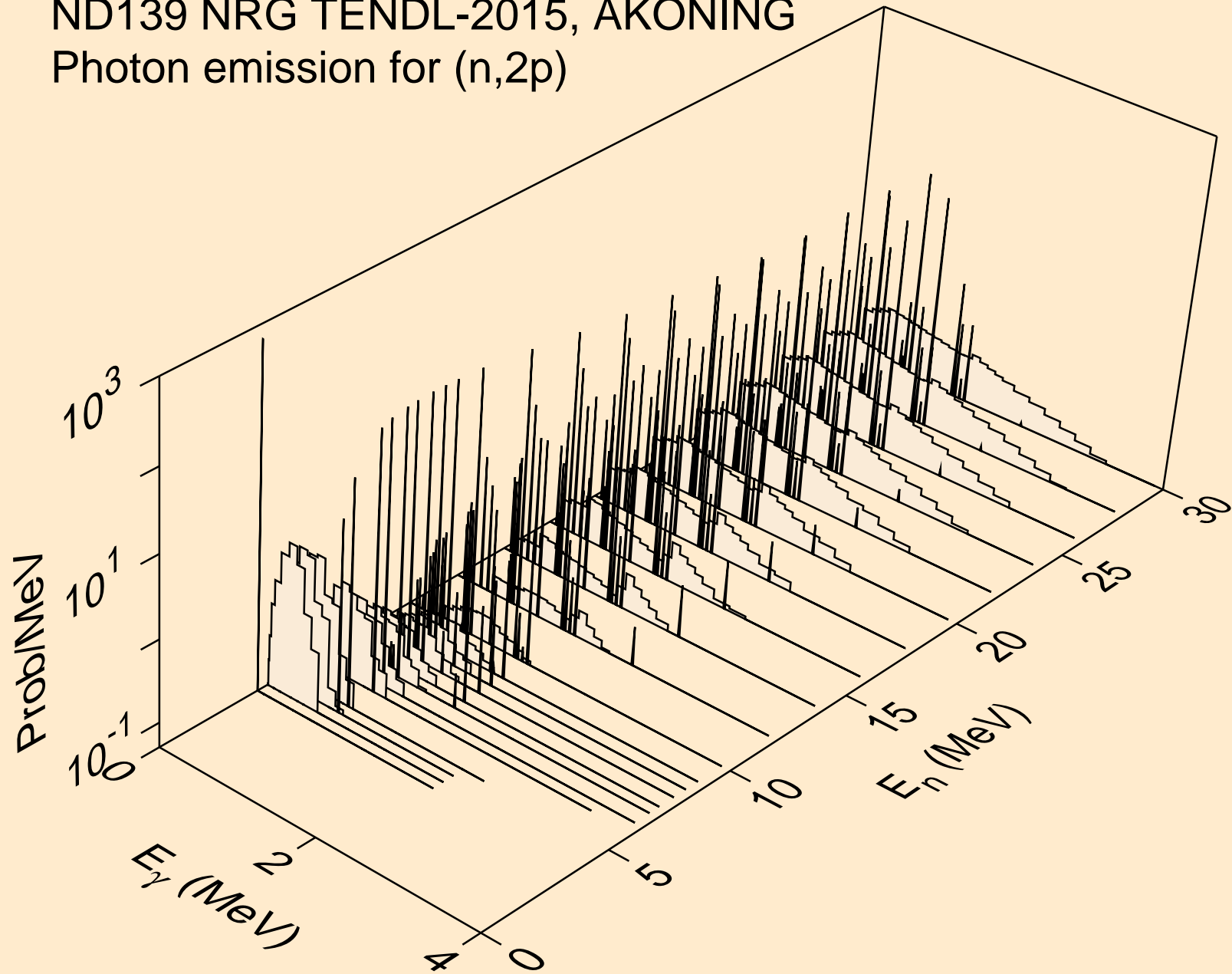
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,a)



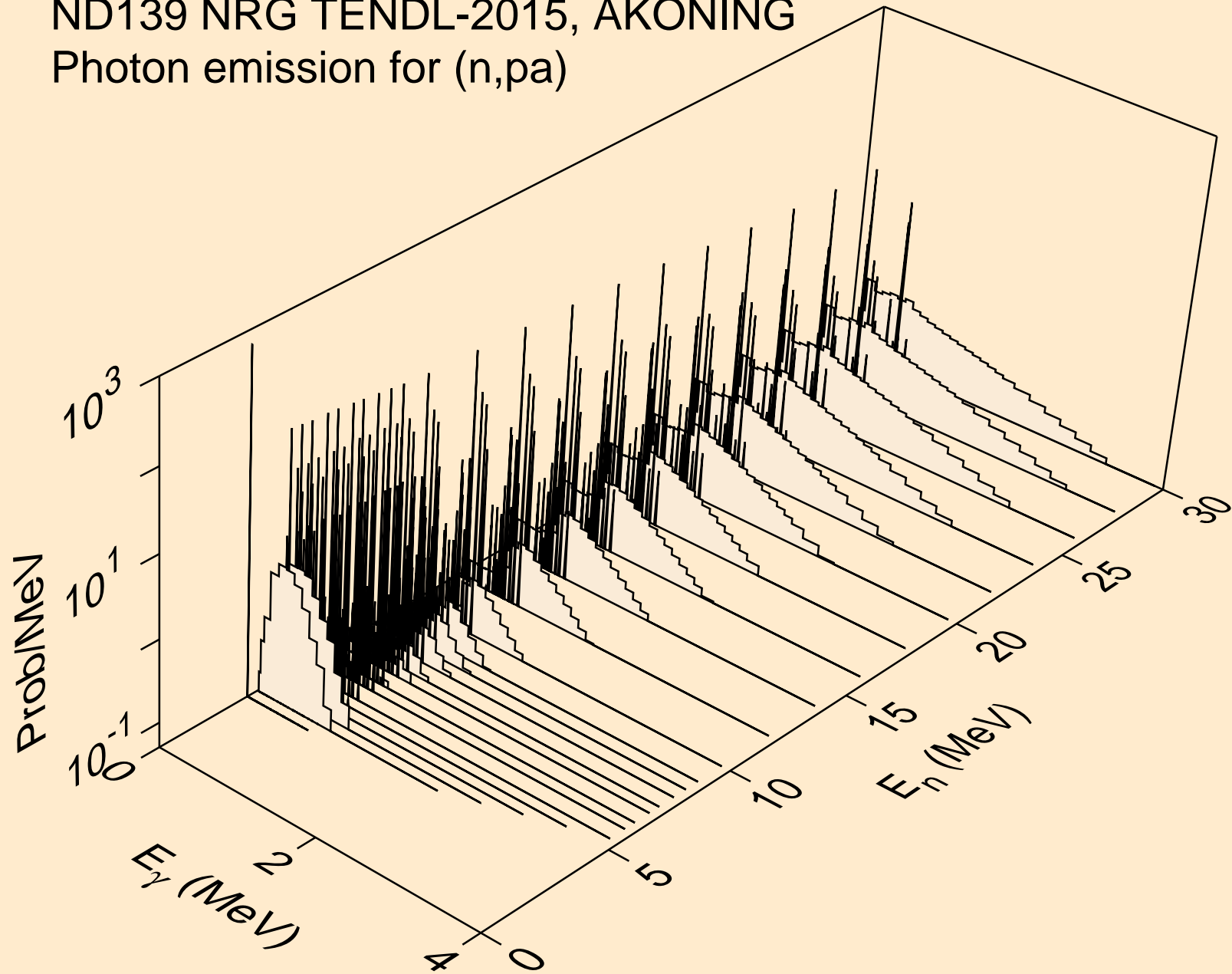
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,2a)



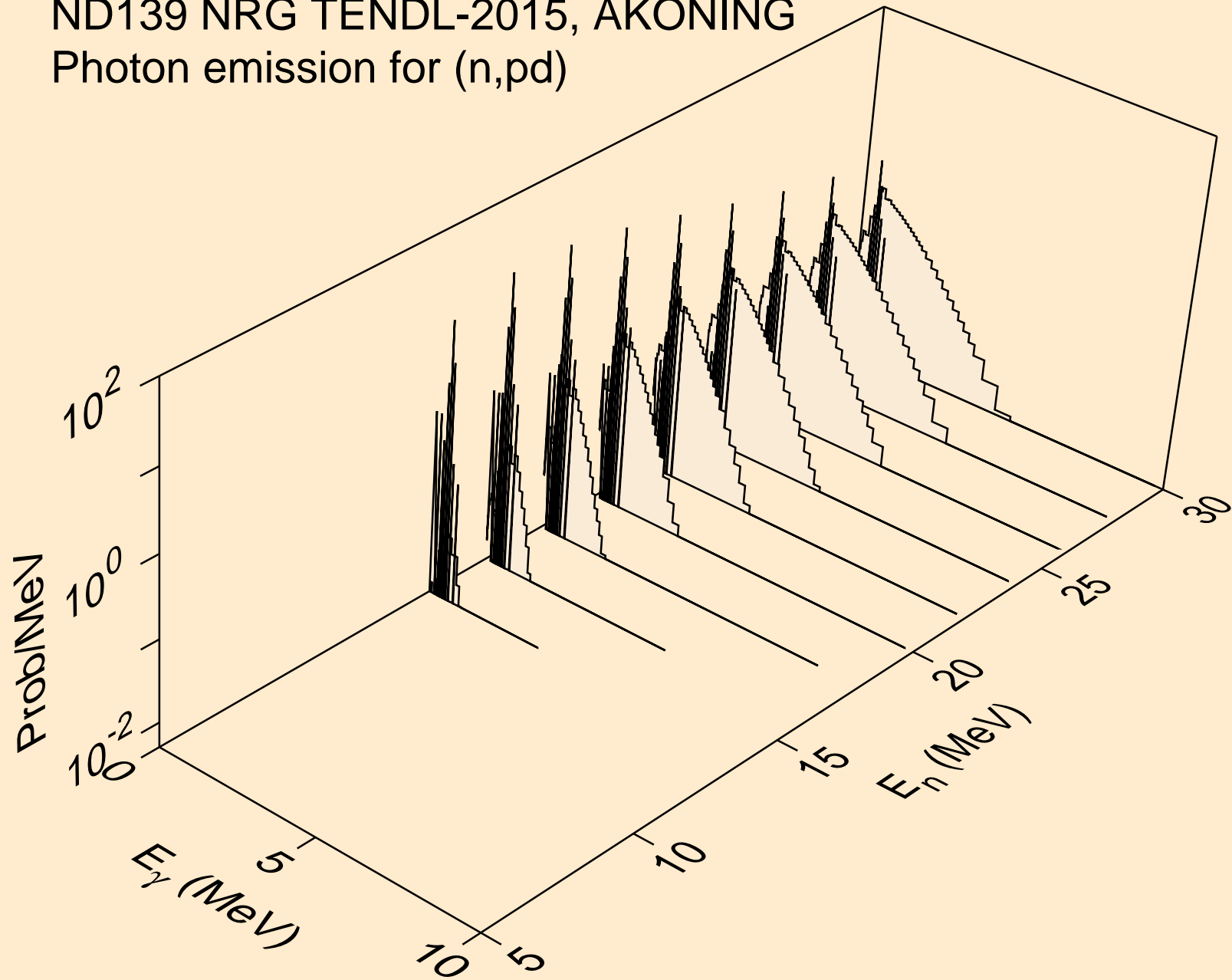
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,2p)



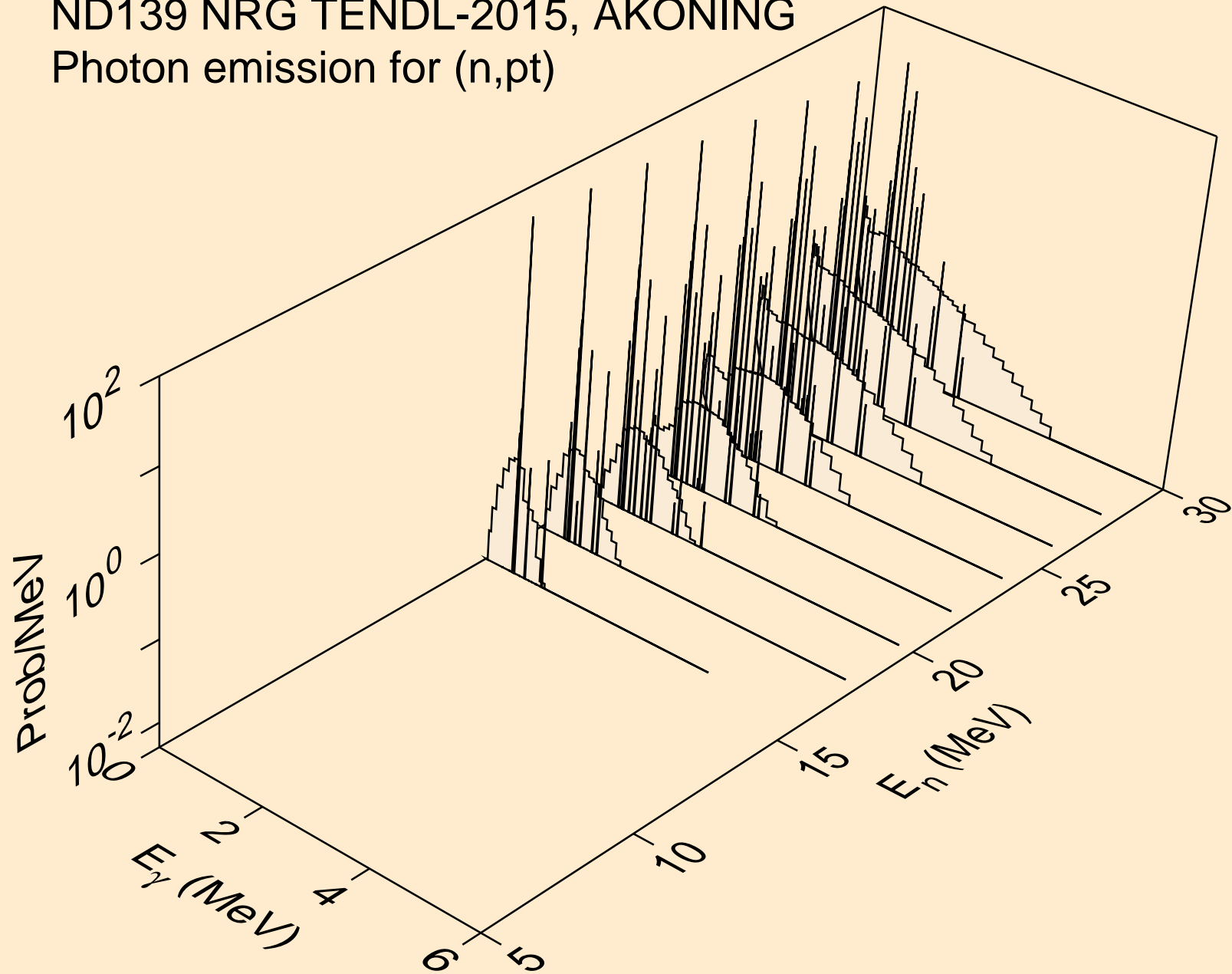
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,p $\alpha$ )



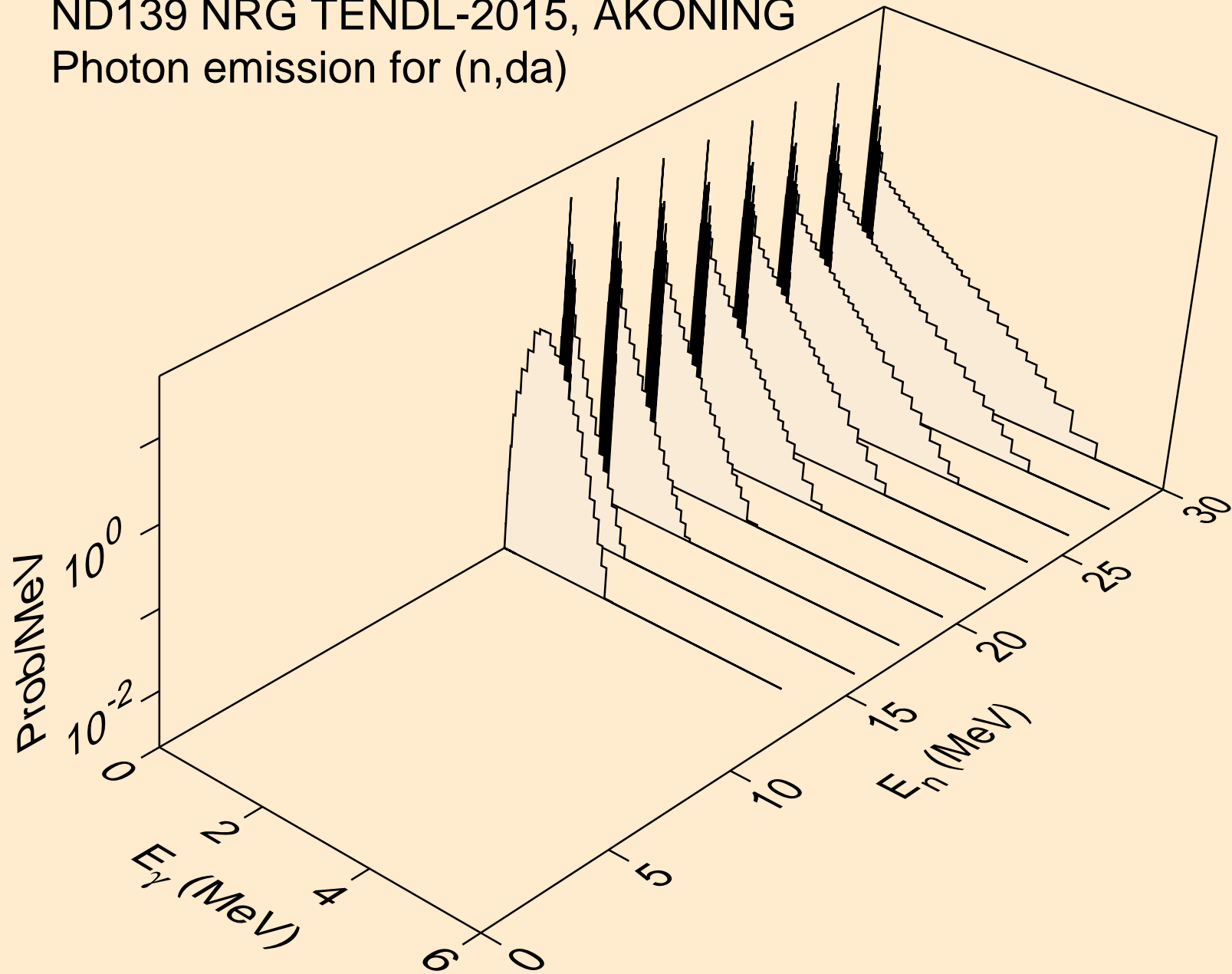
ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,pd)



ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,pt)

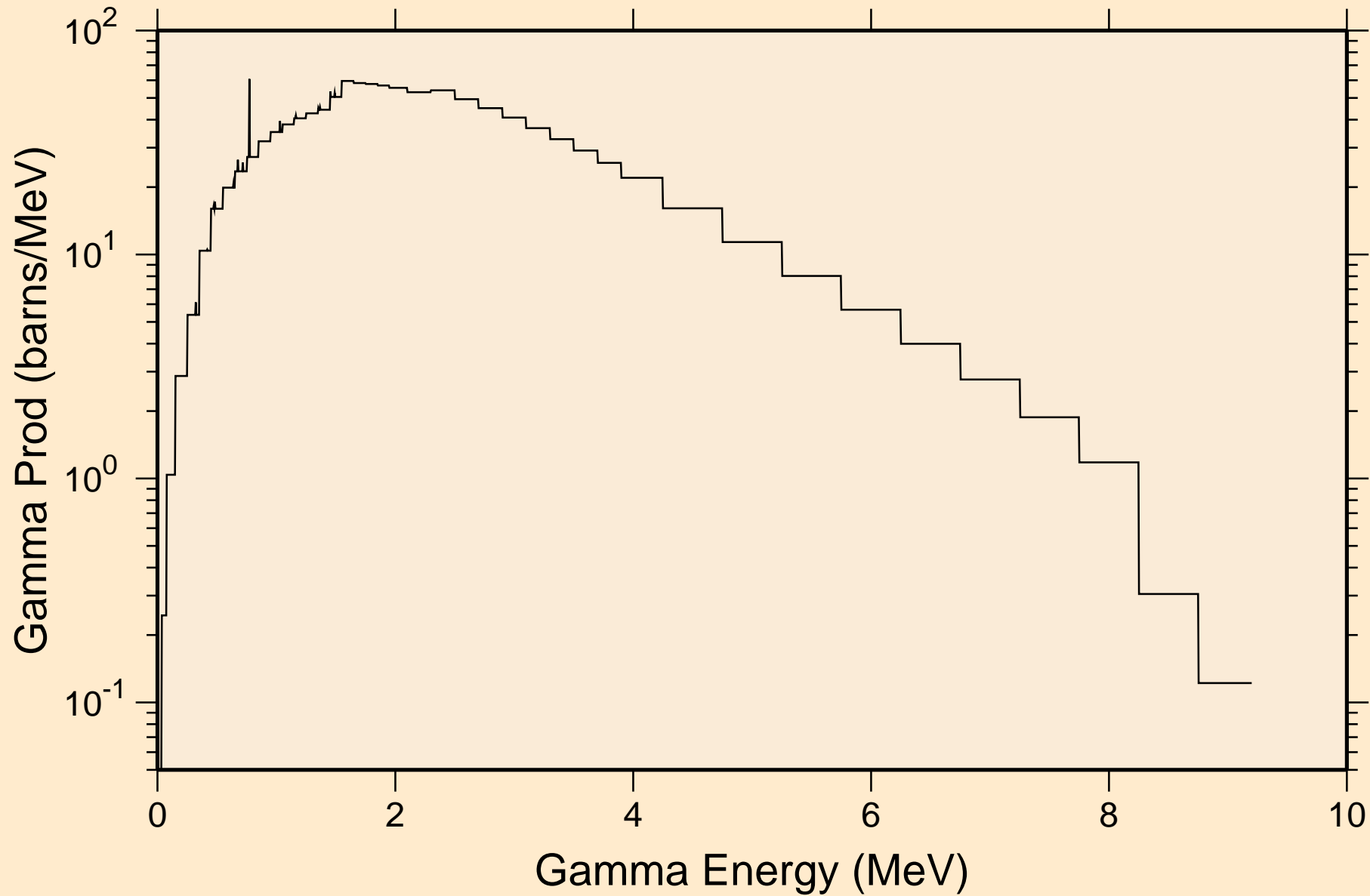


ND139 NRG TENDL-2015, AKONING  
Photon emission for (n,da)

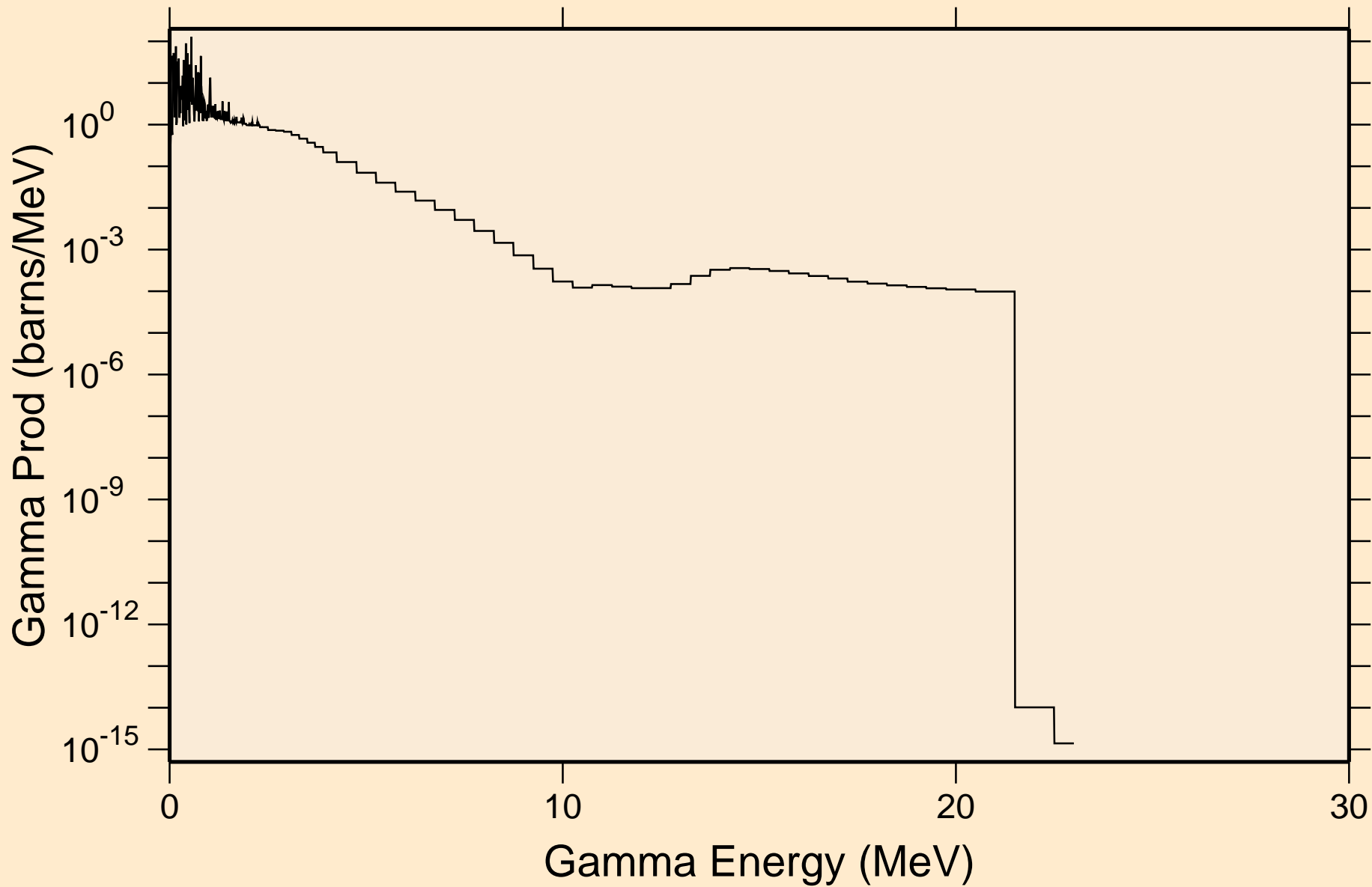




ND139 NRG TENDL-2015, AKONING  
thermal capture photon spectrum

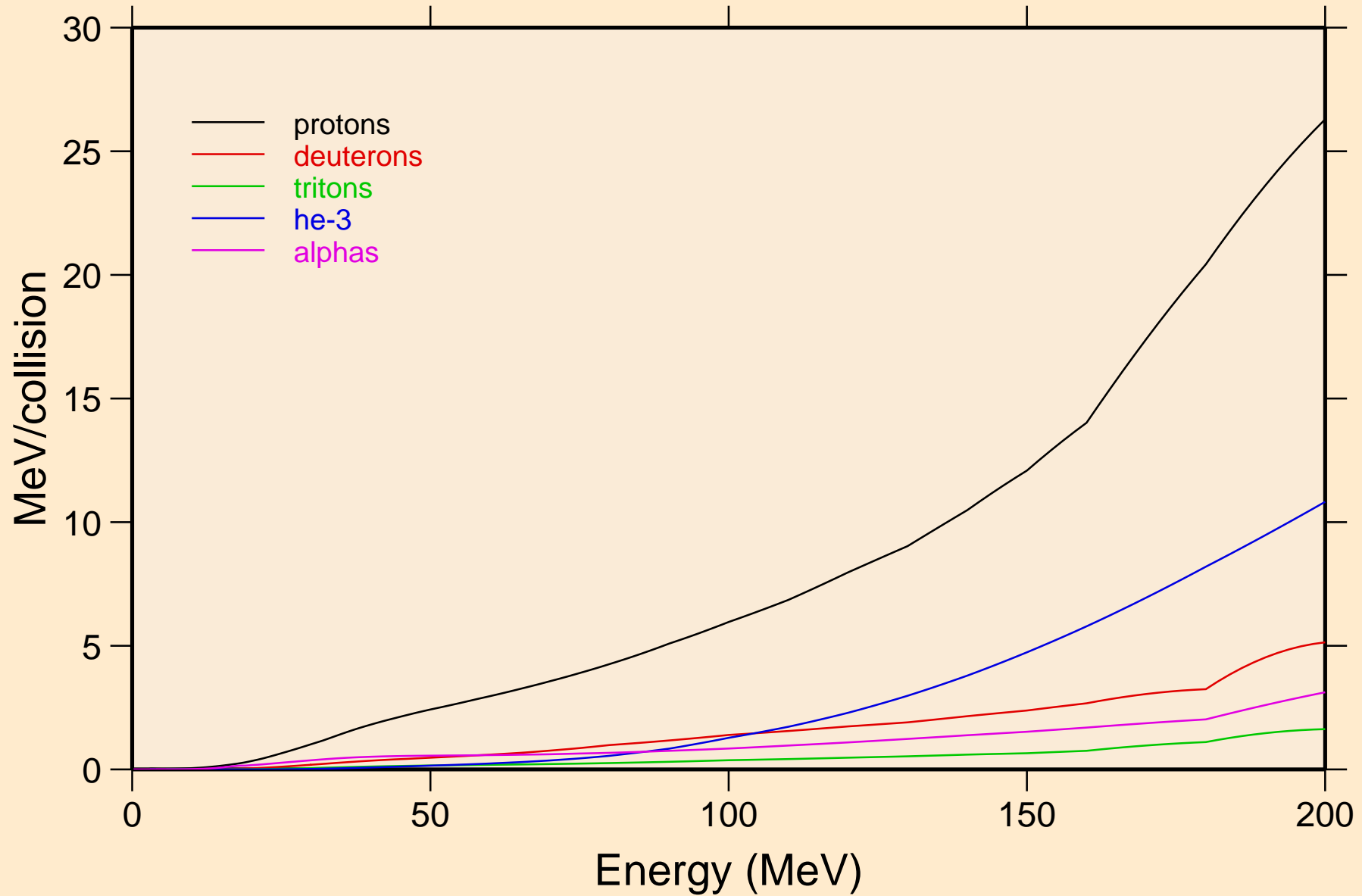


ND139 NRG TENDL-2015, AKONING  
14 MeV photon spectrum



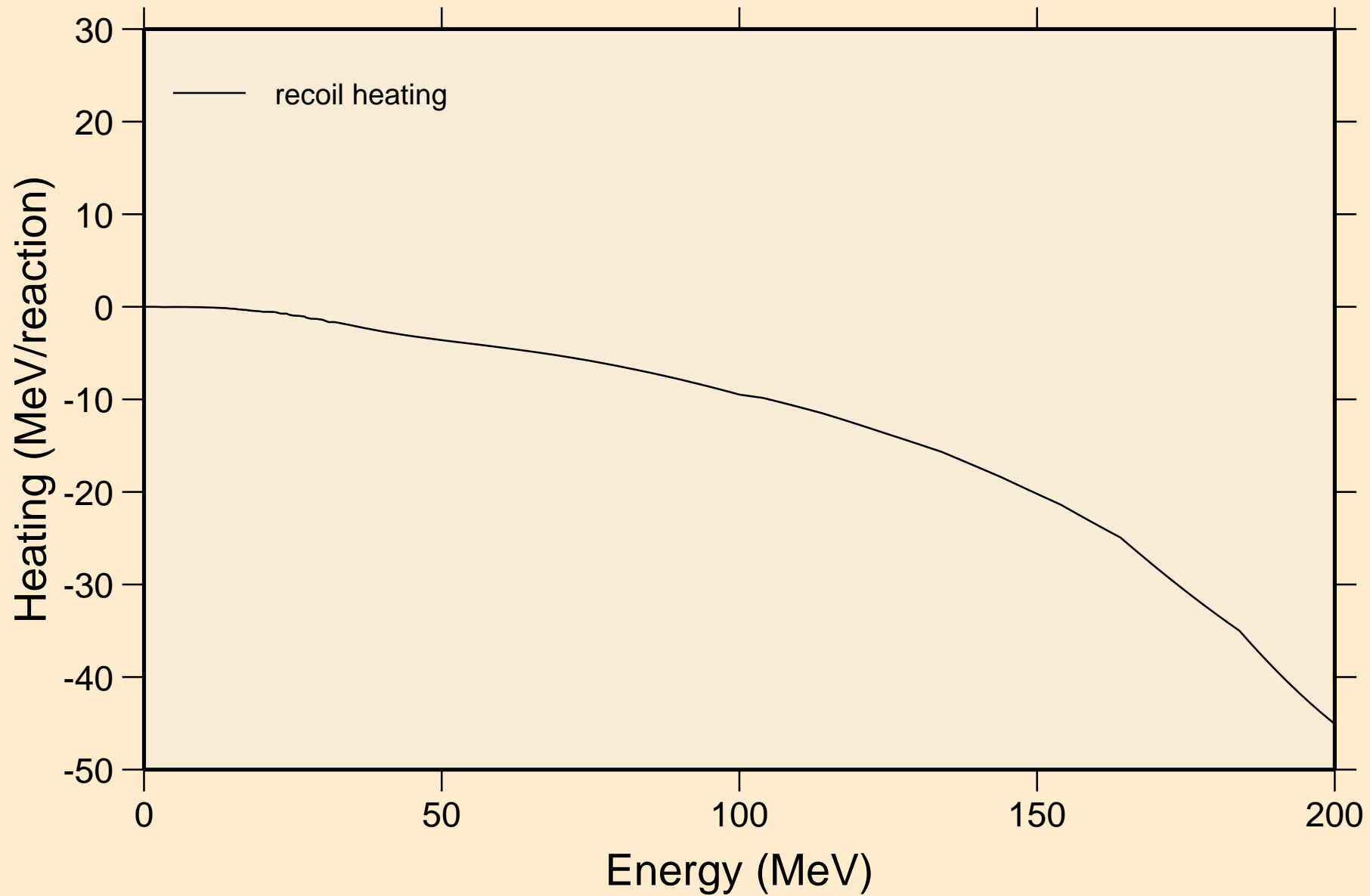
# ND139 NRG TENDL-2015, AKONING

## Particle heating contributions



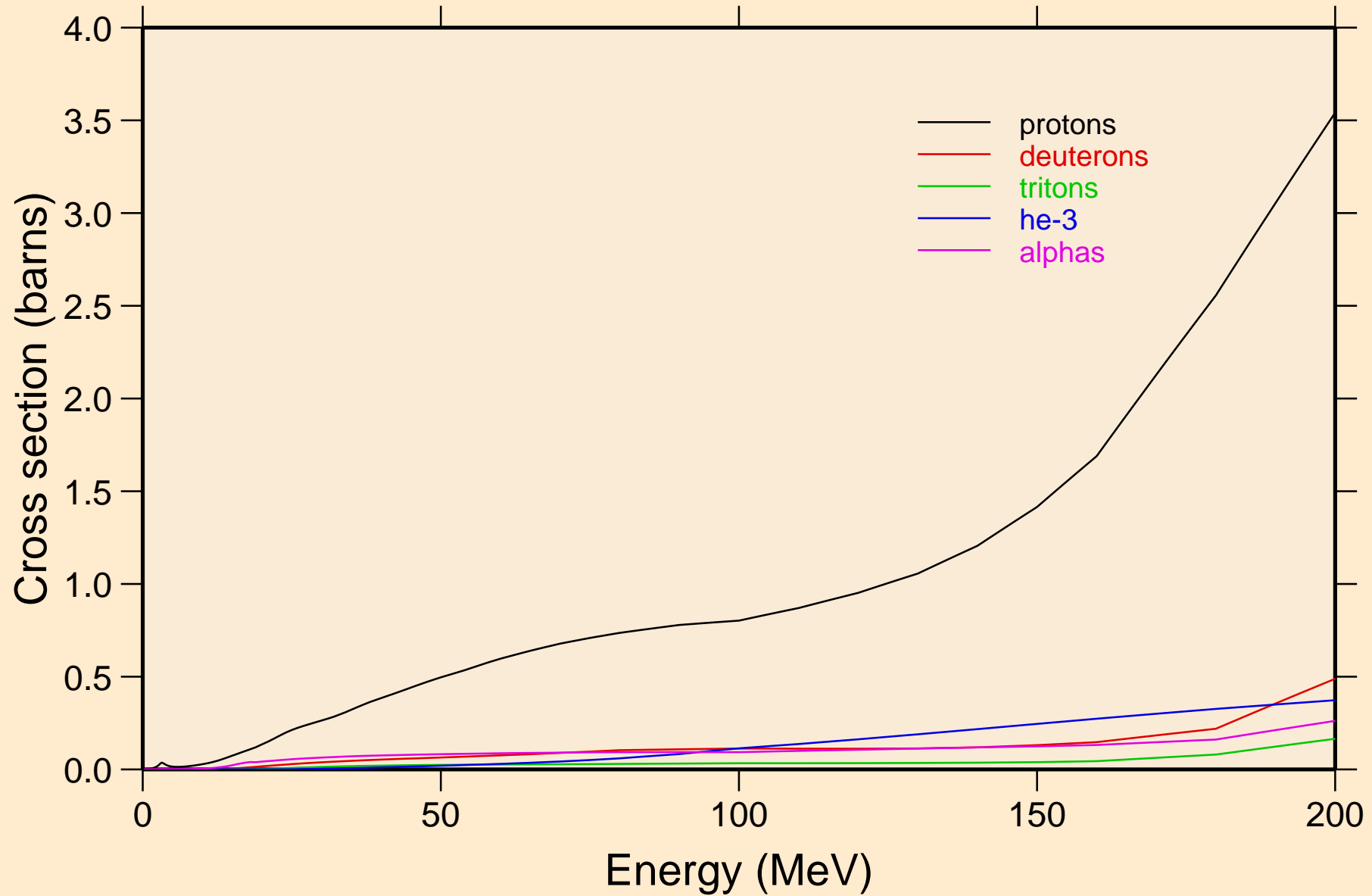
# ND139 NRG TENDL-2015, AKONING

## Recoil Heating

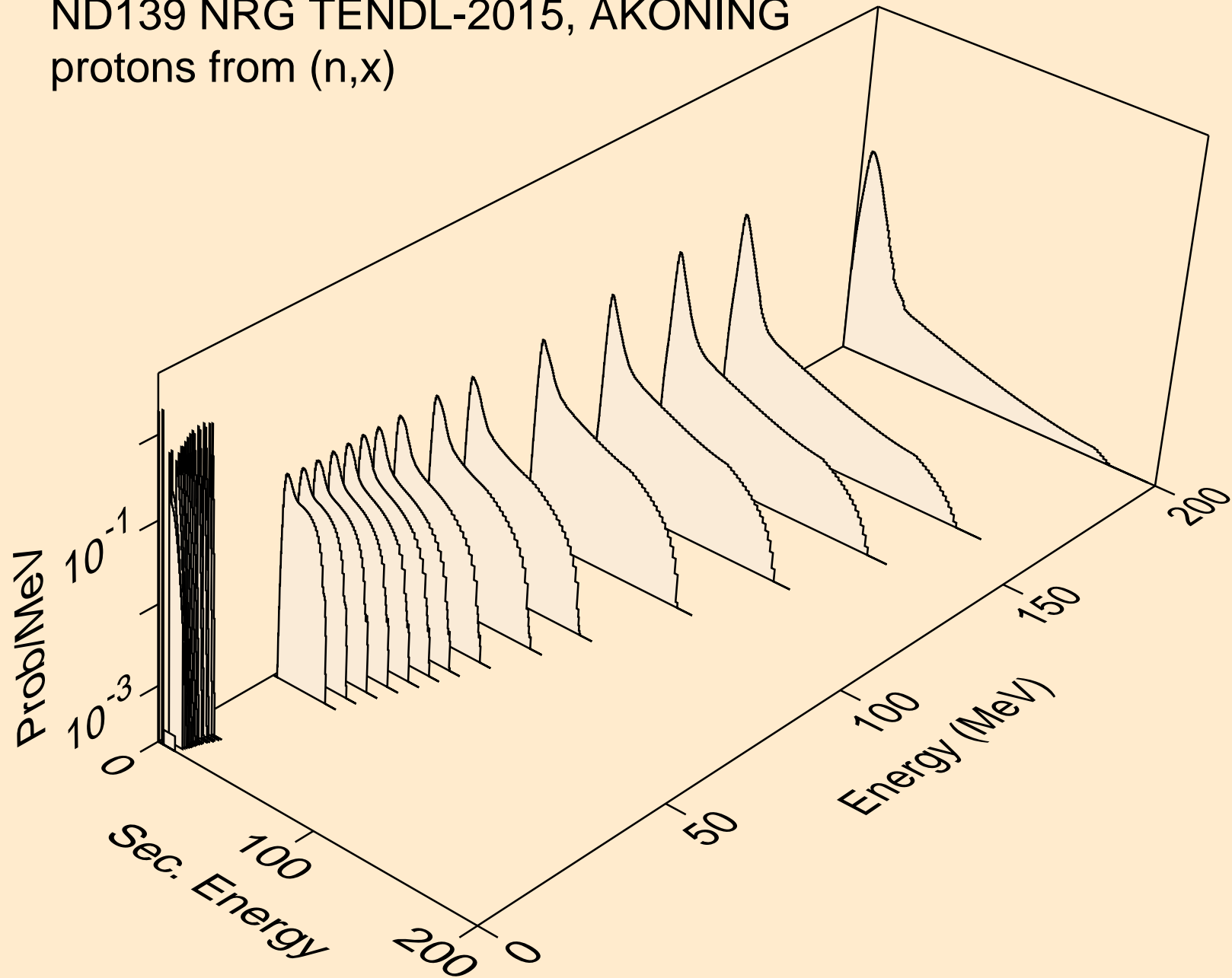


# ND139 NRG TENDL-2015, AKONING

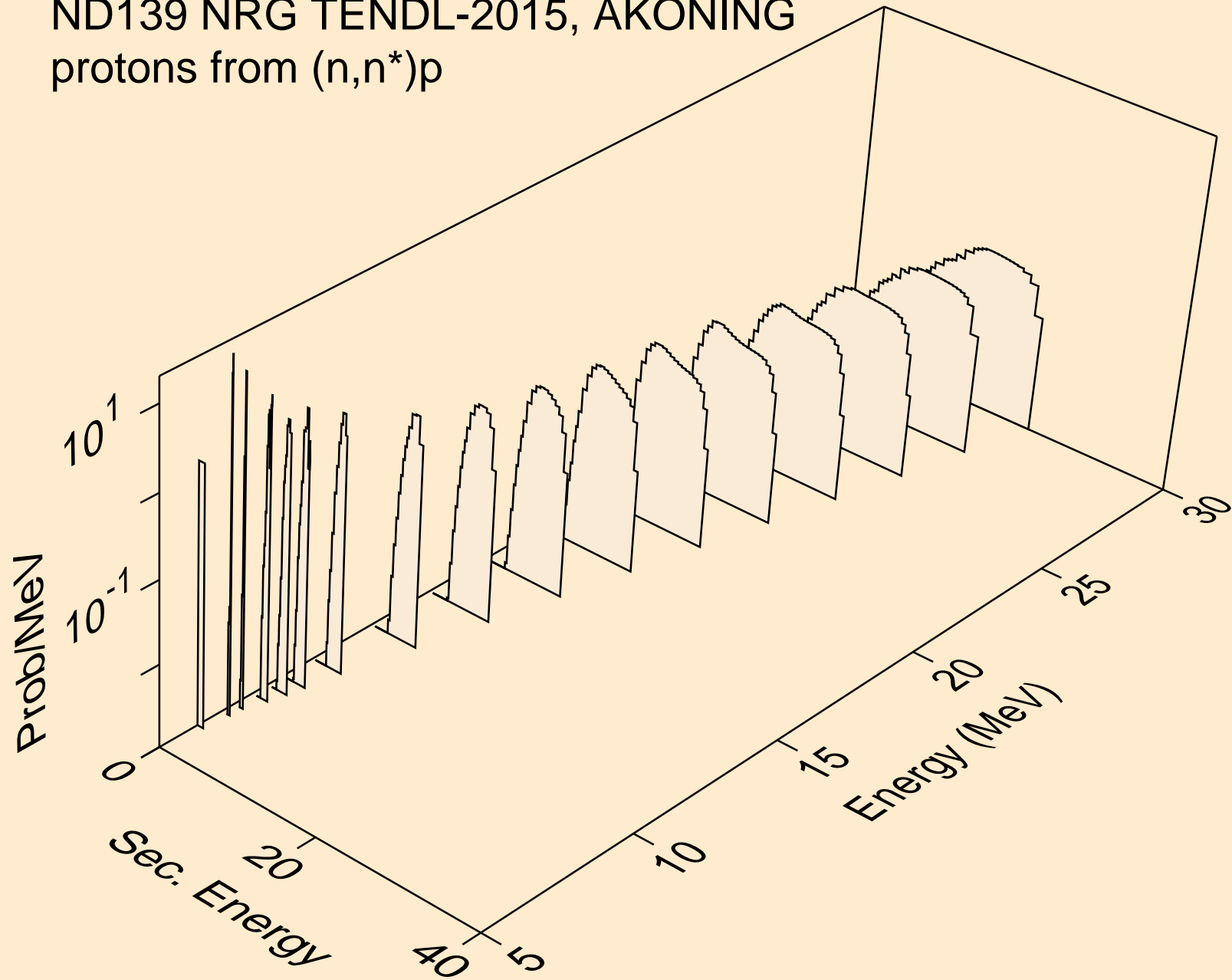
## Particle production cross sections



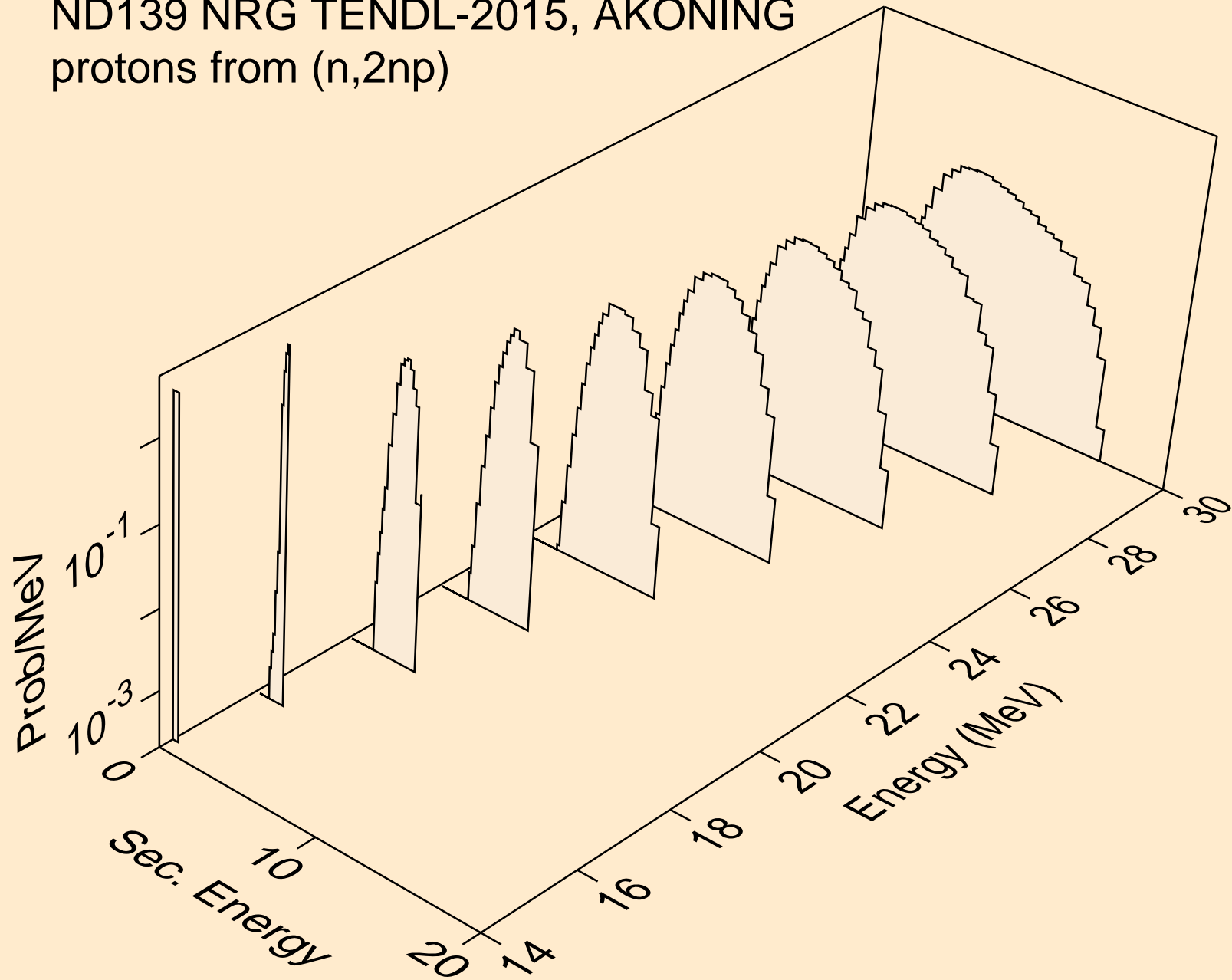
ND139 NRG TENDL-2015, AKONING  
protons from (n,x)



ND139 NRG TENDL-2015, AKONING  
protons from (n,n\*)p

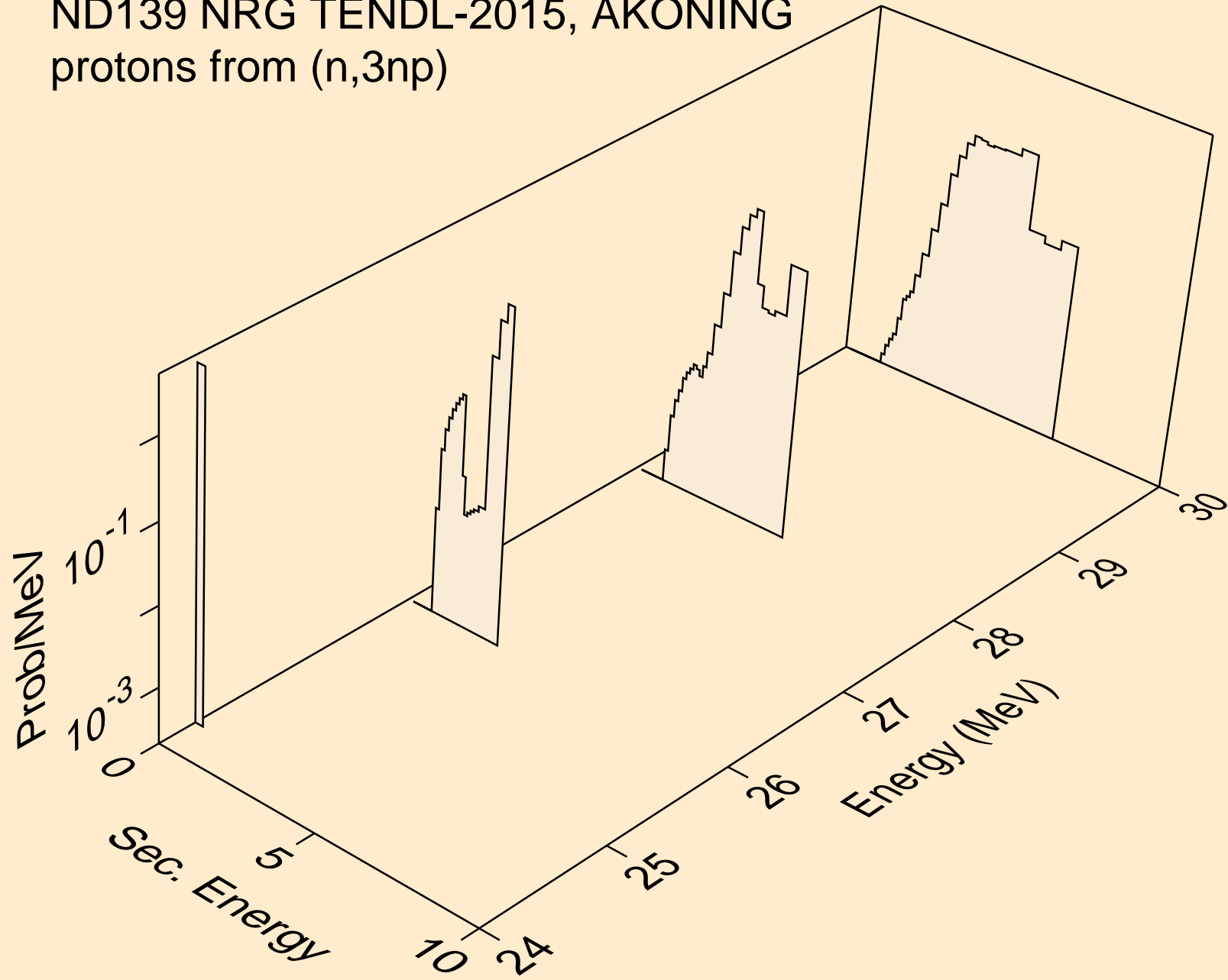


ND139 NRG TENDL-2015, AKONING  
protons from (n,2np)

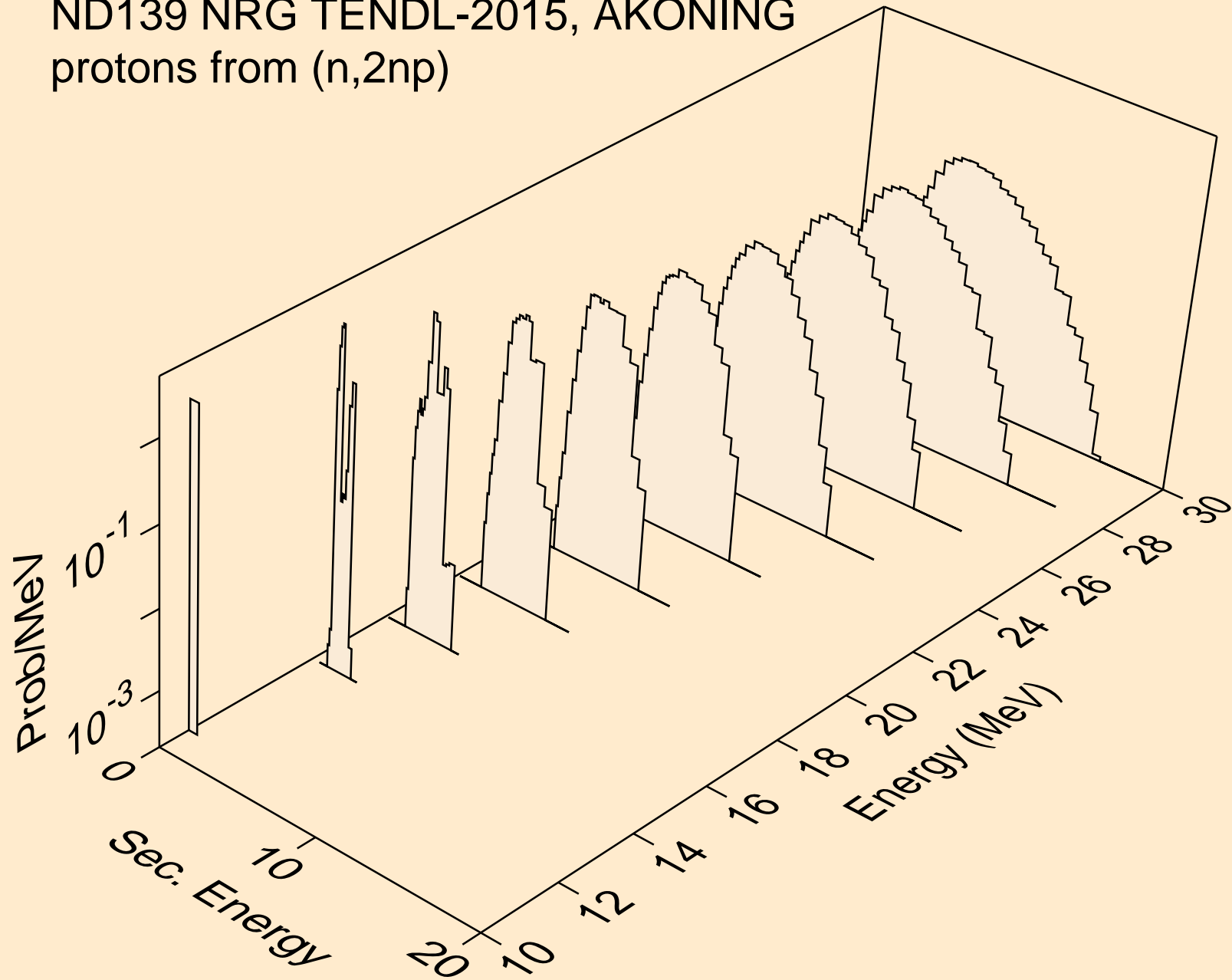




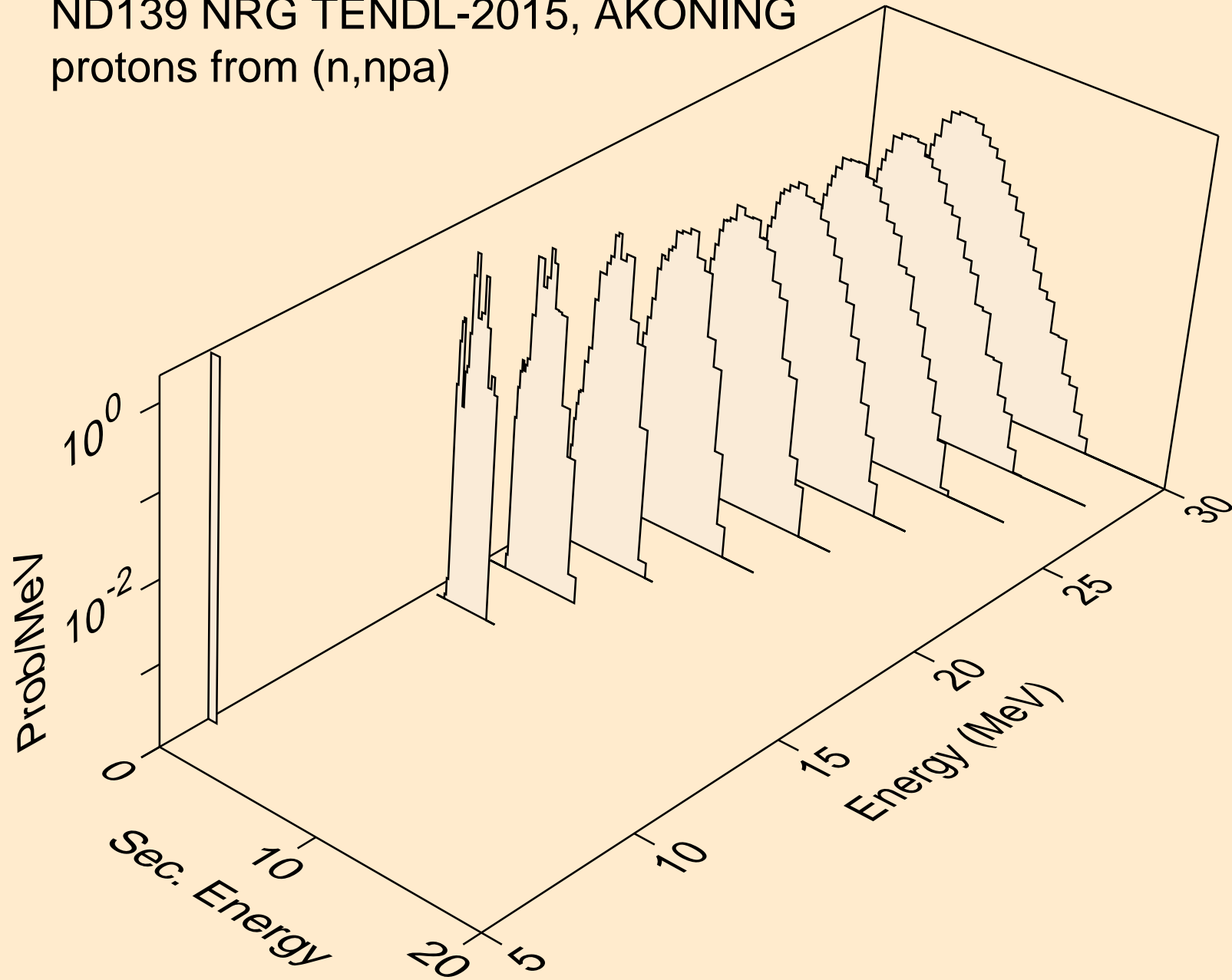
ND139 NRG TENDL-2015, AKONING  
protons from (n,3np)



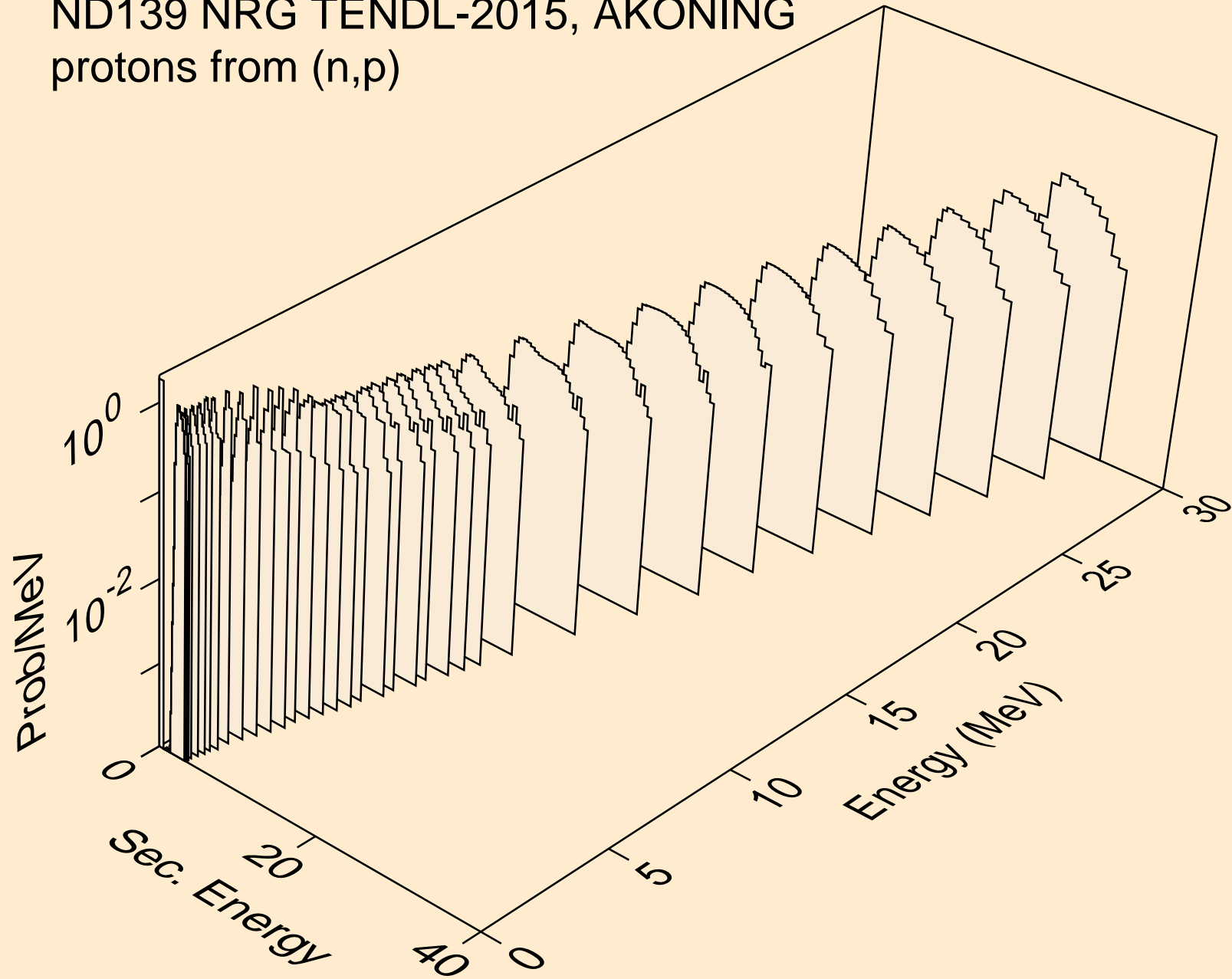
ND139 NRG TENDL-2015, AKONING  
protons from (n,2np)



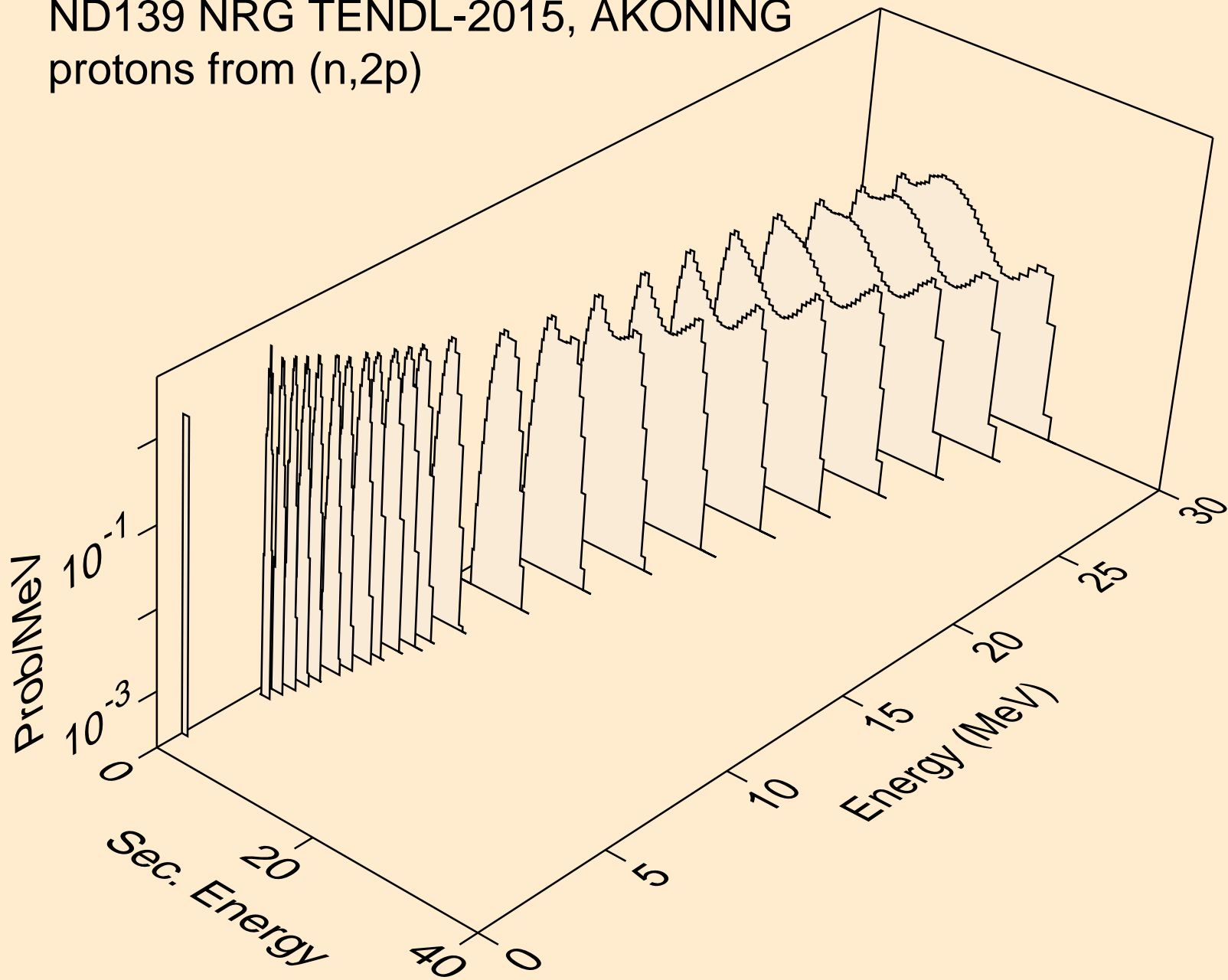
ND139 NRG TENDL-2015, AKONING  
protons from (n,npa)



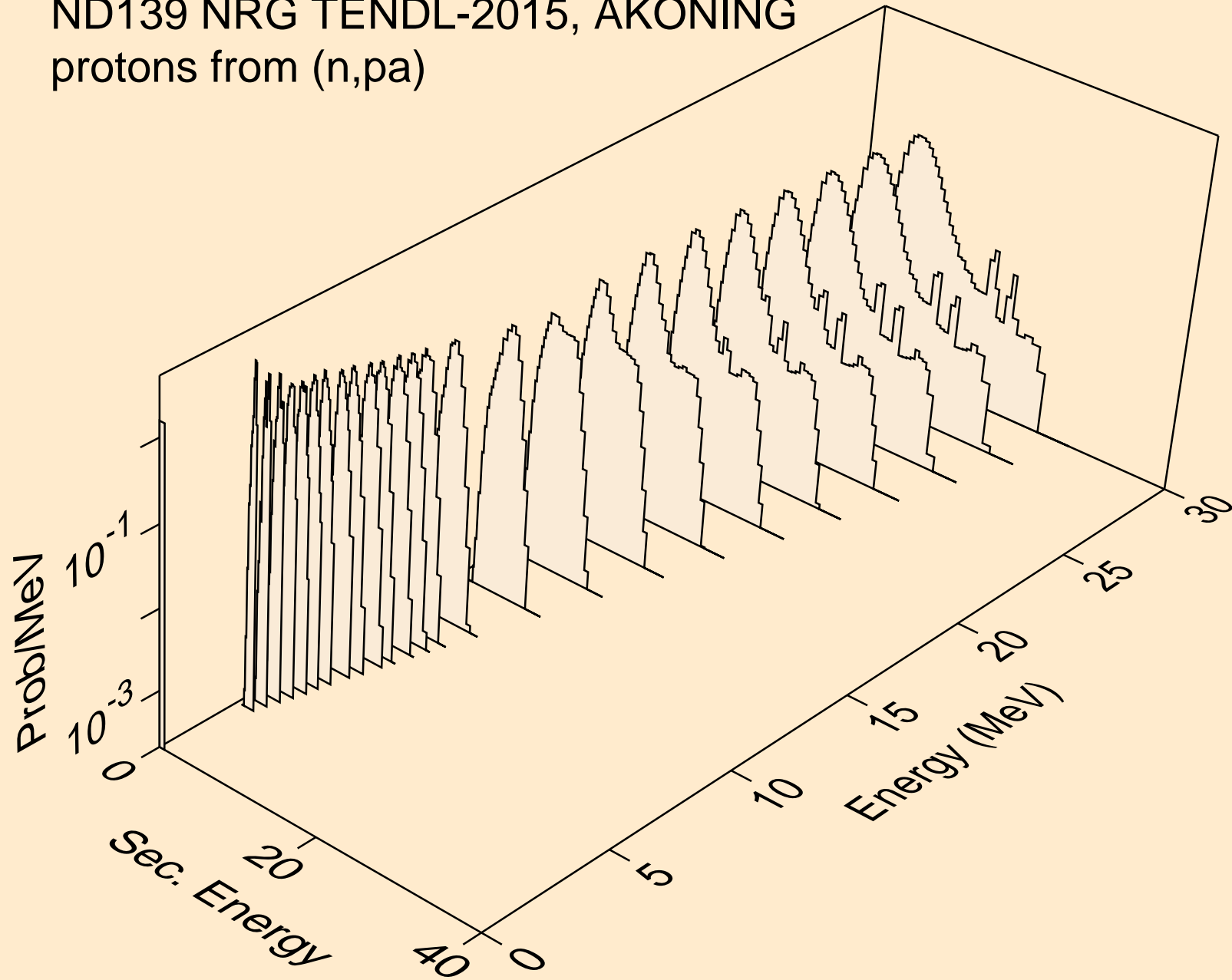
ND139 NRG TENDL-2015, AKONING  
protons from (n,p)



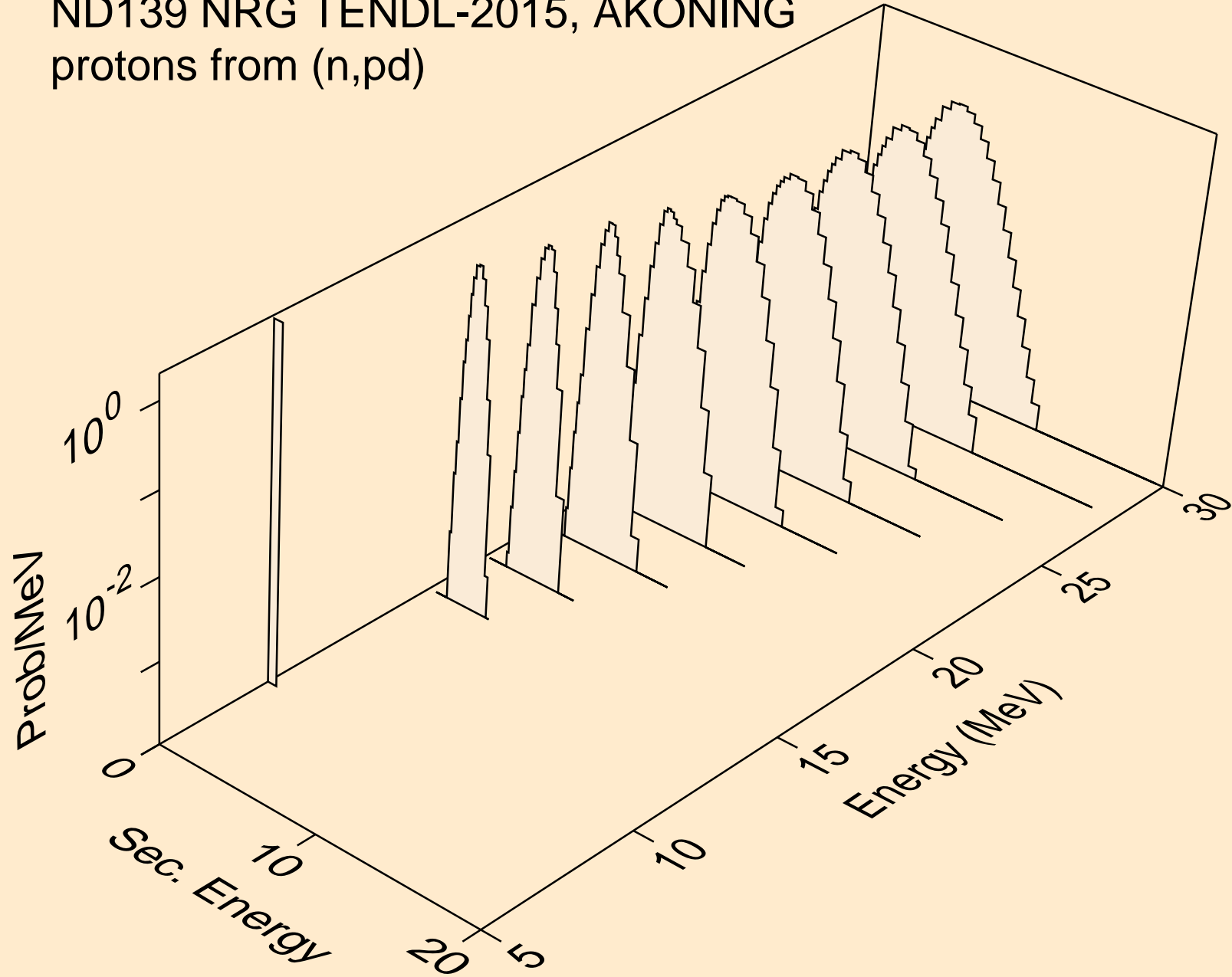
ND139 NRG TENDL-2015, AKONING  
protons from (n,2p)



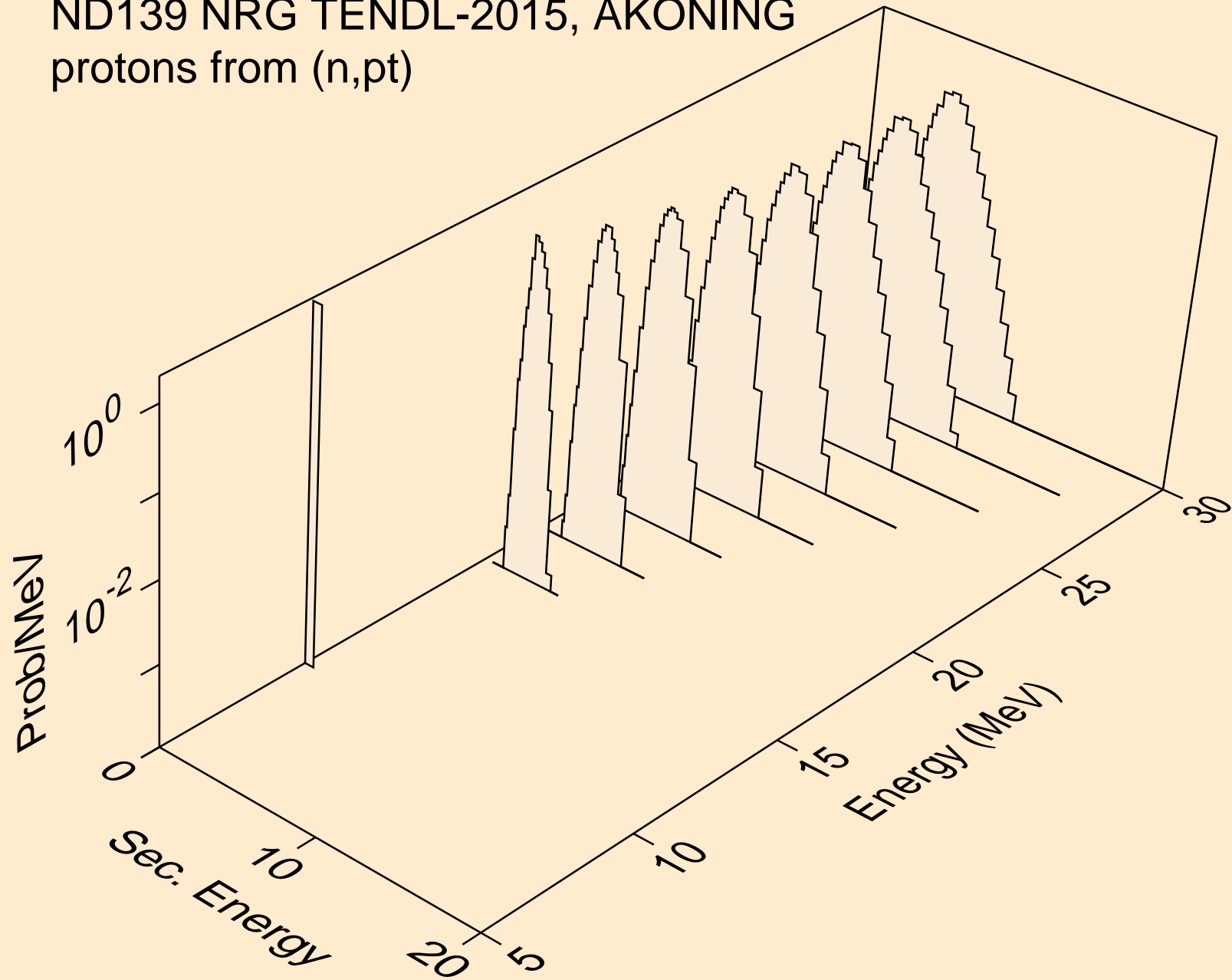
ND139 NRG TENDL-2015, AKONING  
protons from (n,pa)



ND139 NRG TENDL-2015, AKONING  
protons from (n,pd)

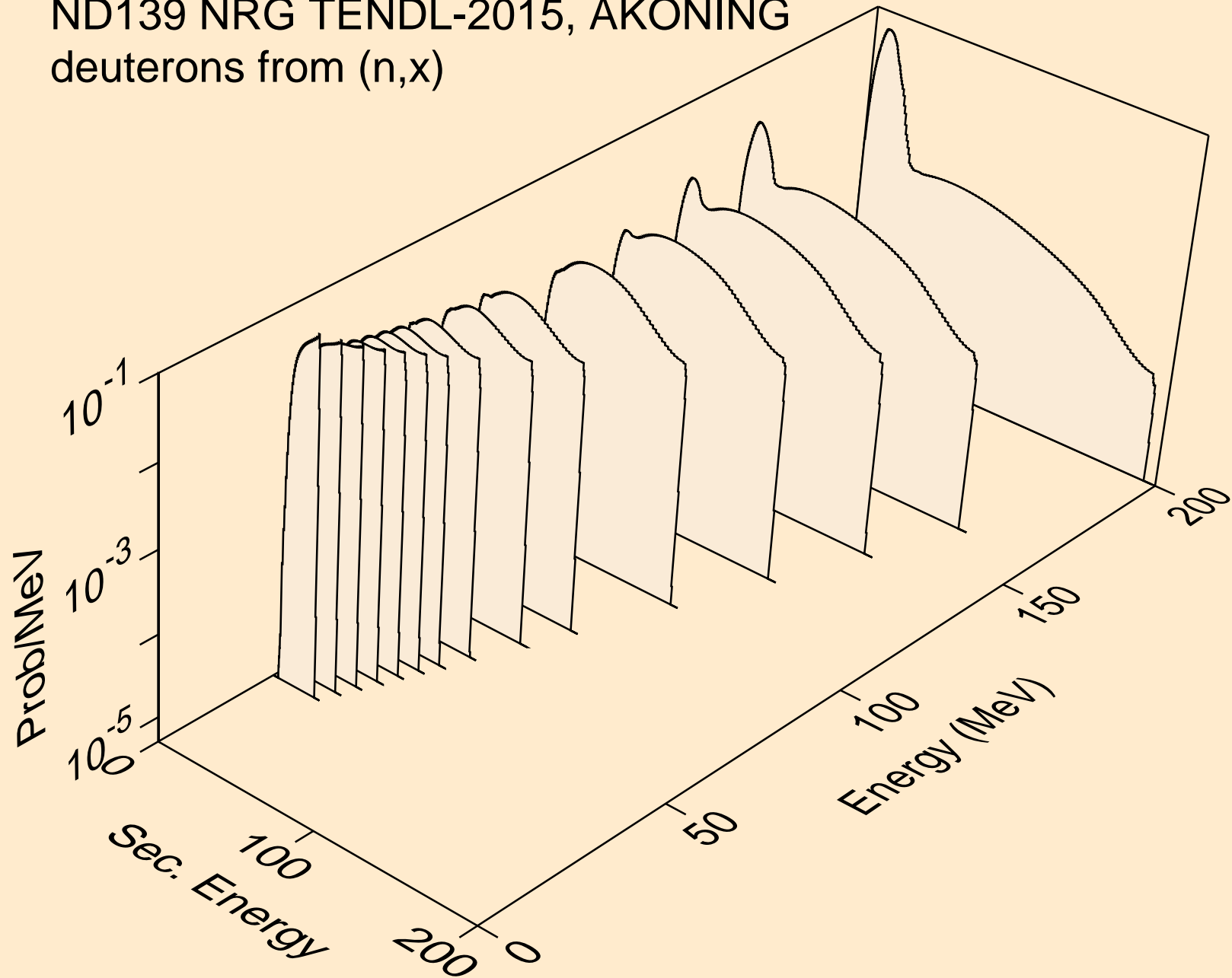


ND139 NRG TENDL-2015, AKONING  
protons from (n,pt)

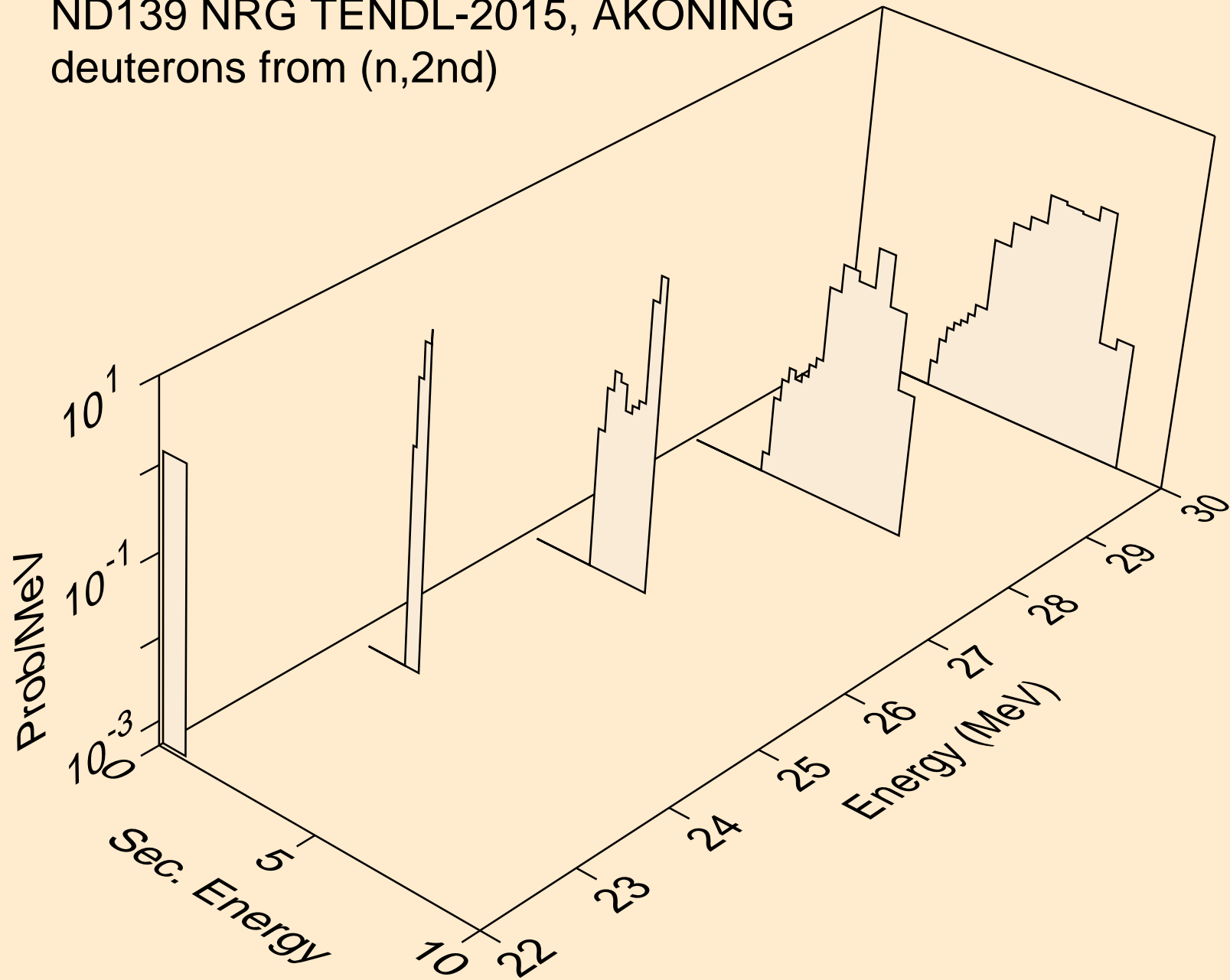




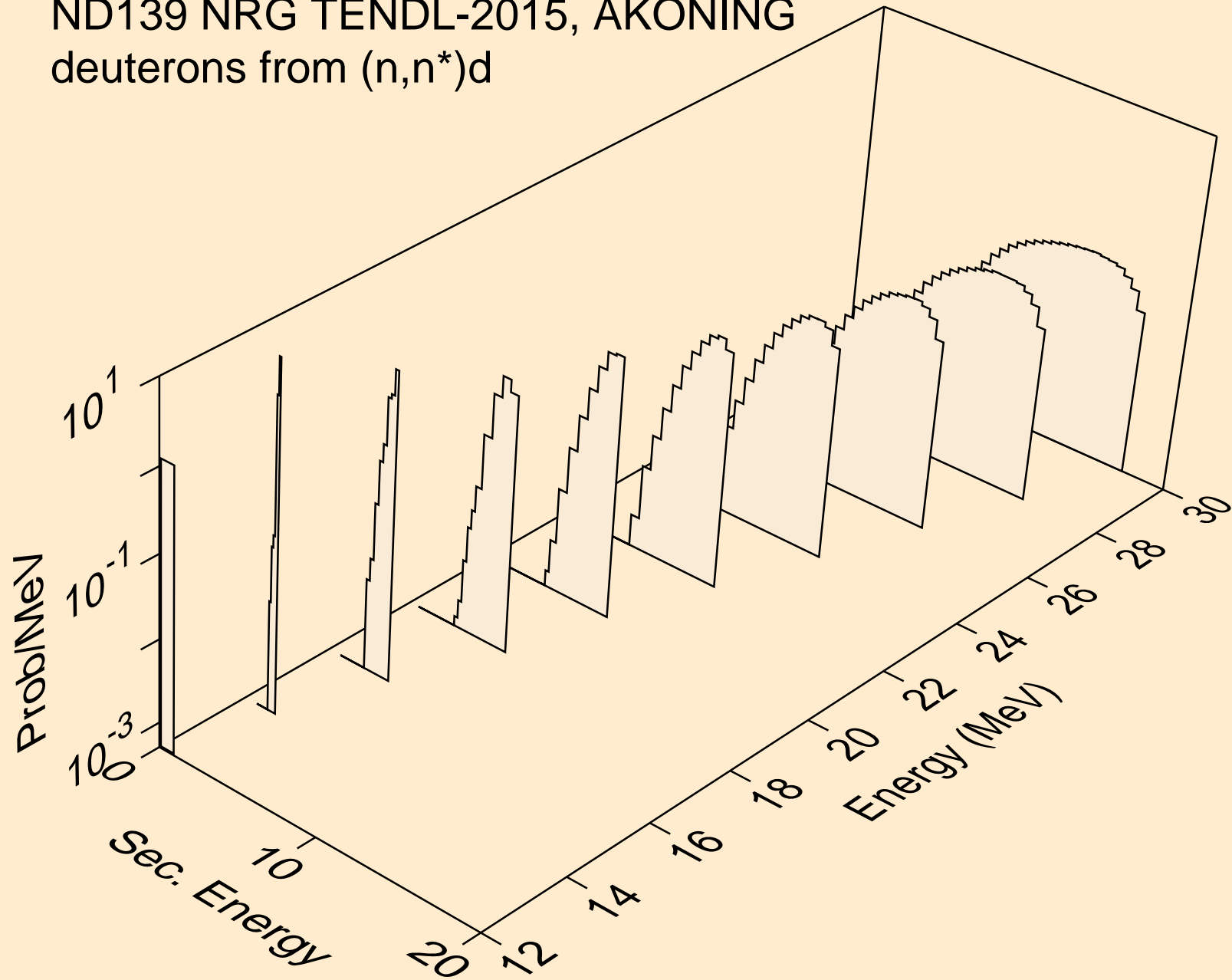
ND139 NRG TENDL-2015, AKONING  
deuterons from (n,x)



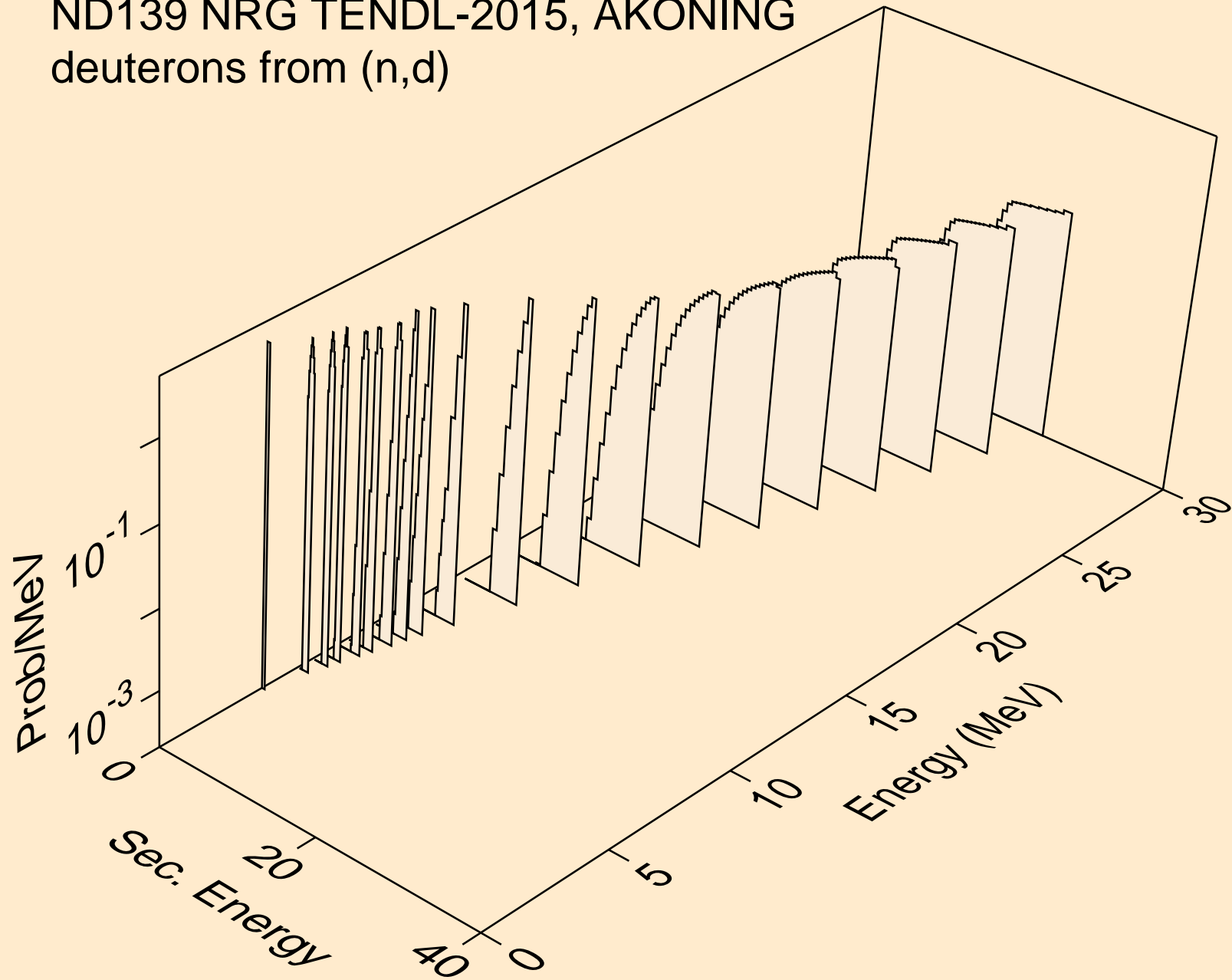
ND139 NRG TENDL-2015, AKONING  
deuterons from (n,2nd)



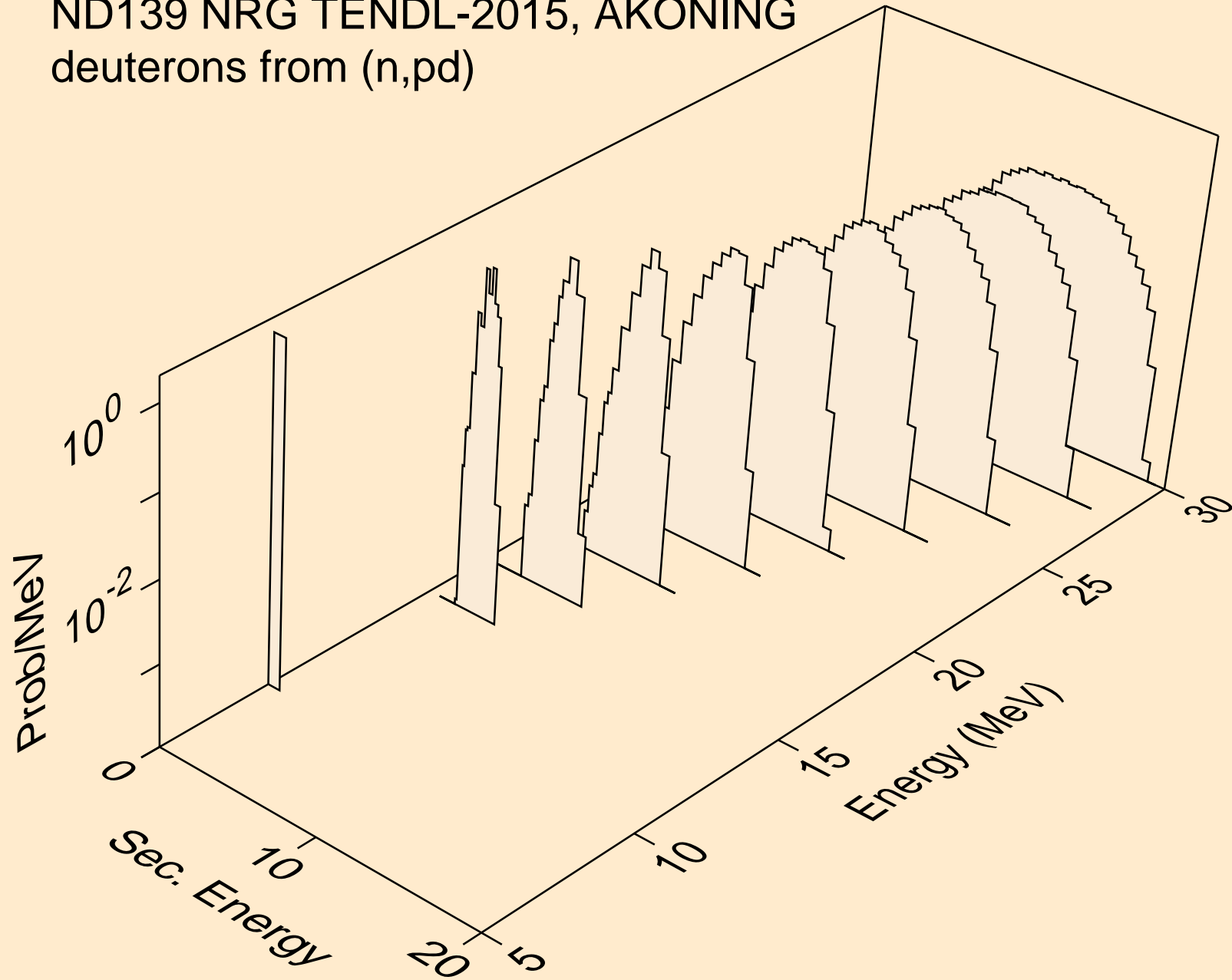
ND139 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d



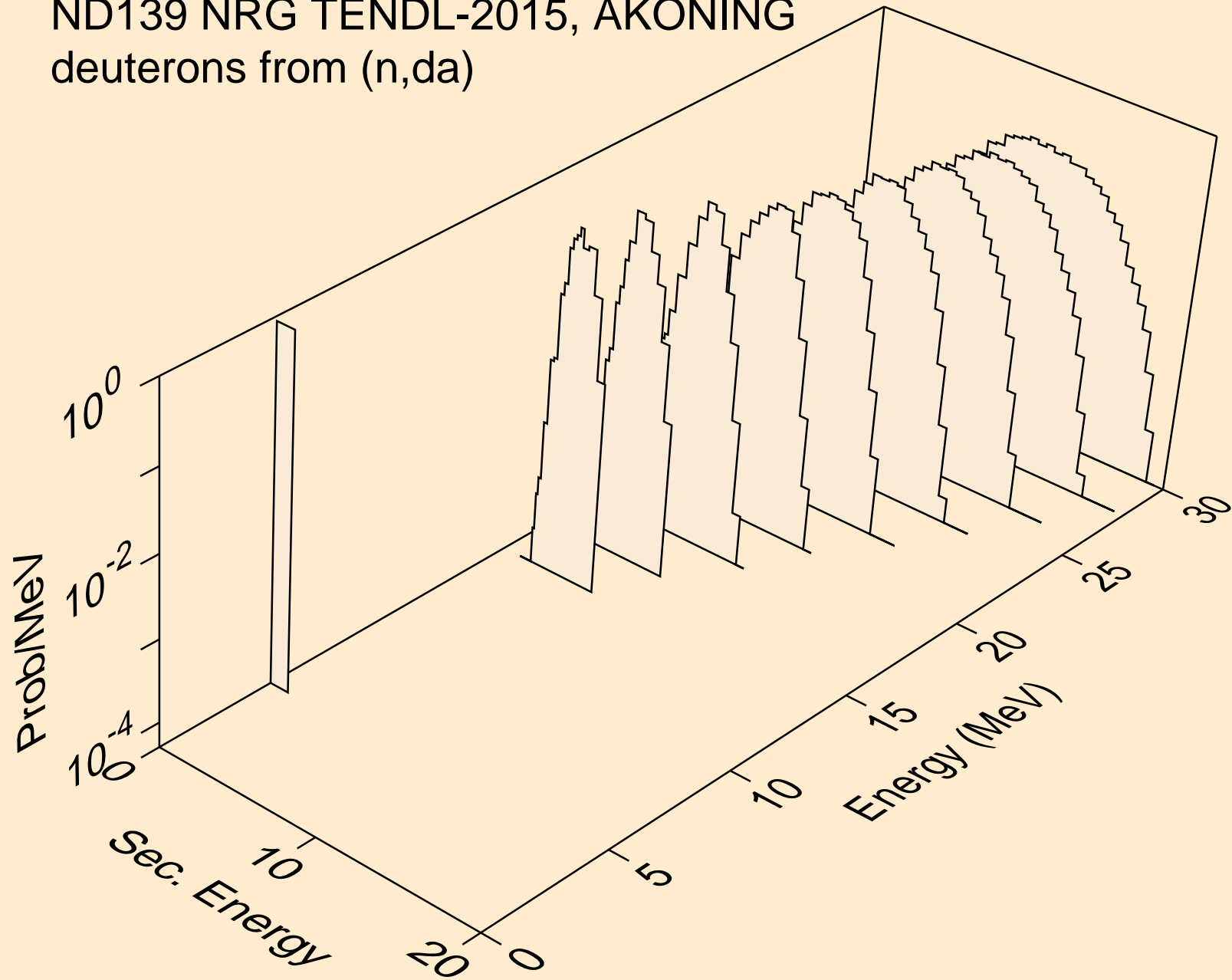
ND139 NRG TENDL-2015, AKONING  
deuterons from (n,d)



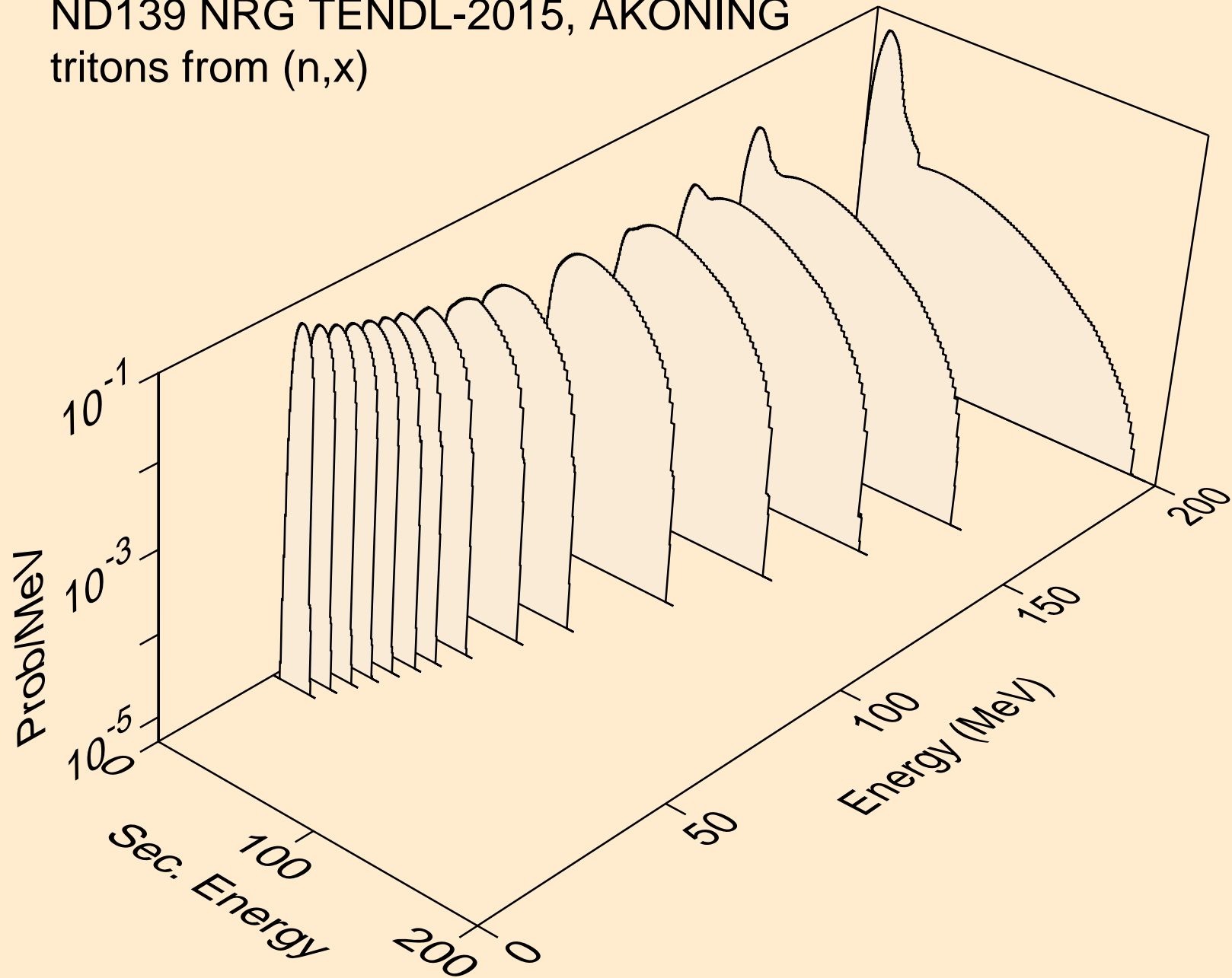
ND139 NRG TENDL-2015, AKONING  
deuterons from (n,pd)



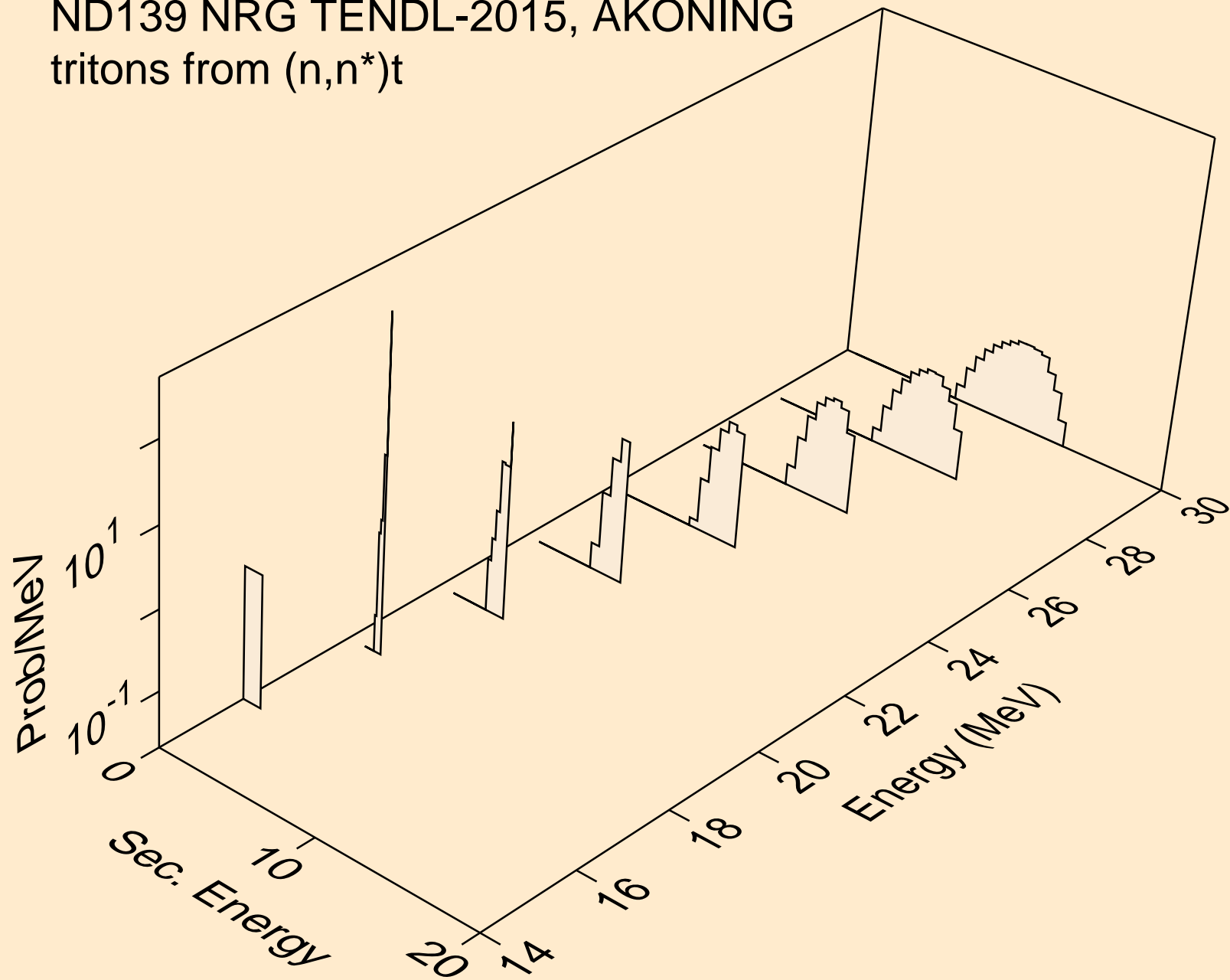
ND139 NRG TENDL-2015, AKONING  
deuterons from (n,da)



ND139 NRG TENDL-2015, AKONING  
tritons from (n,x)

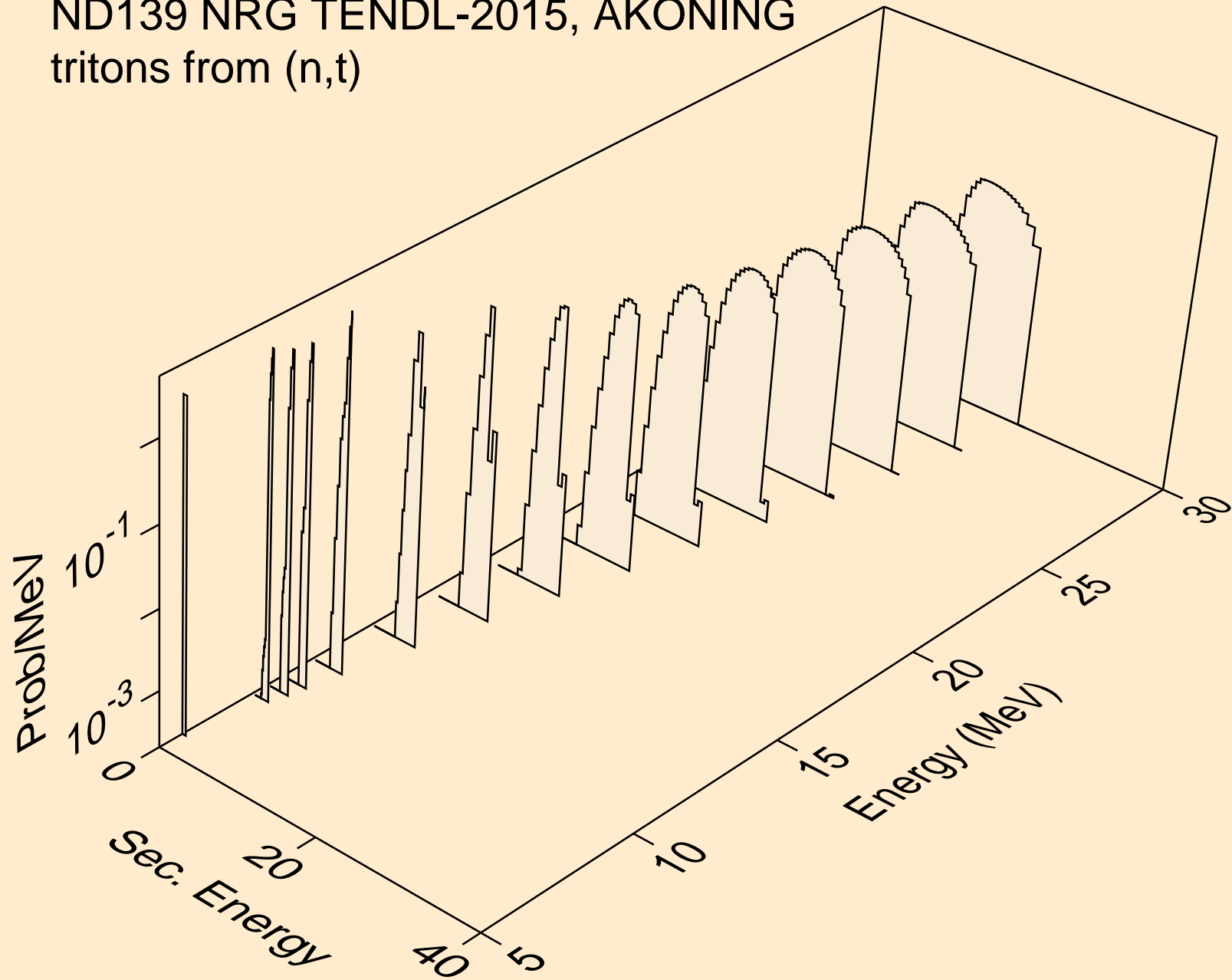


ND139 NRG TENDL-2015, AKONING  
tritons from (n,n\*)t

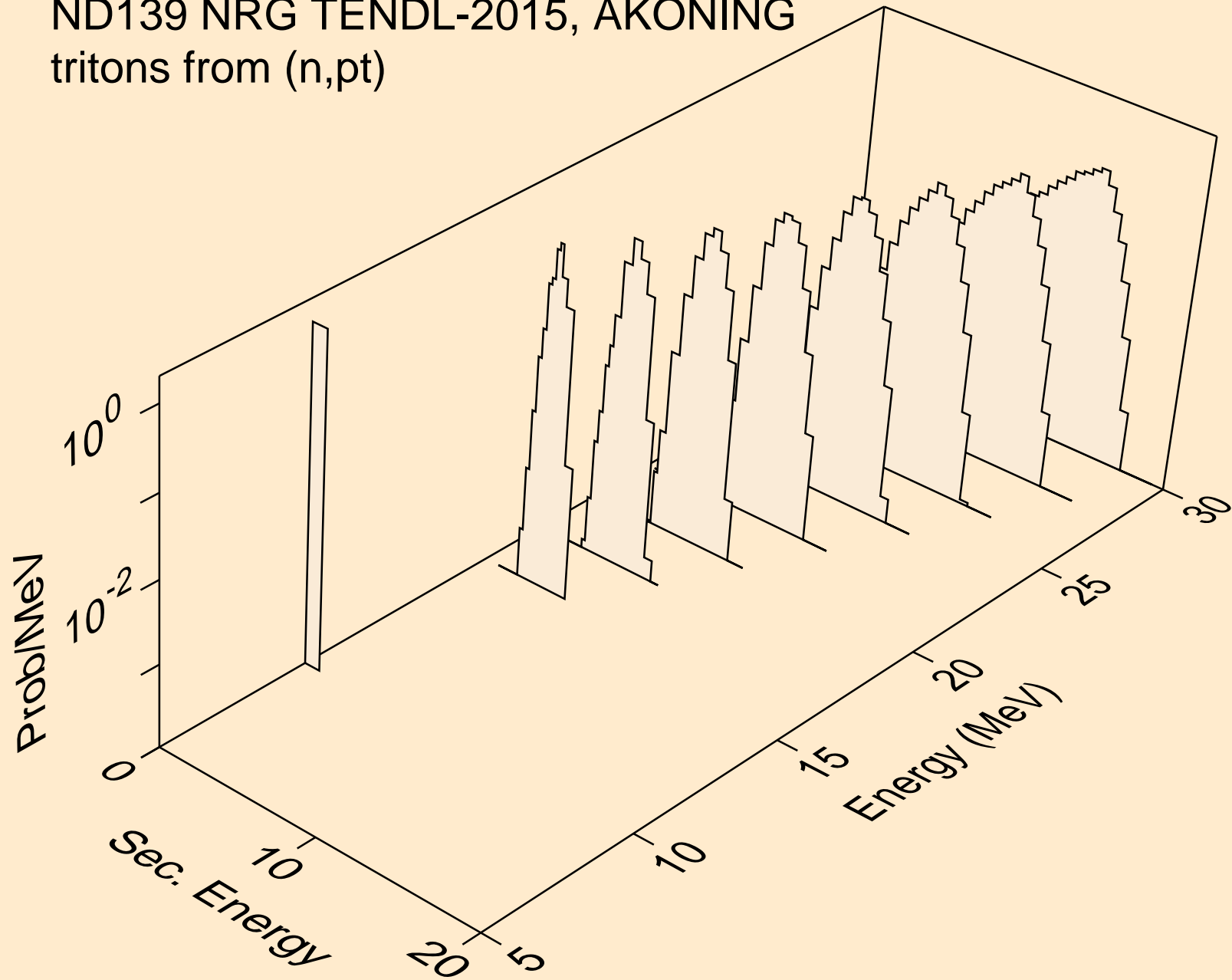




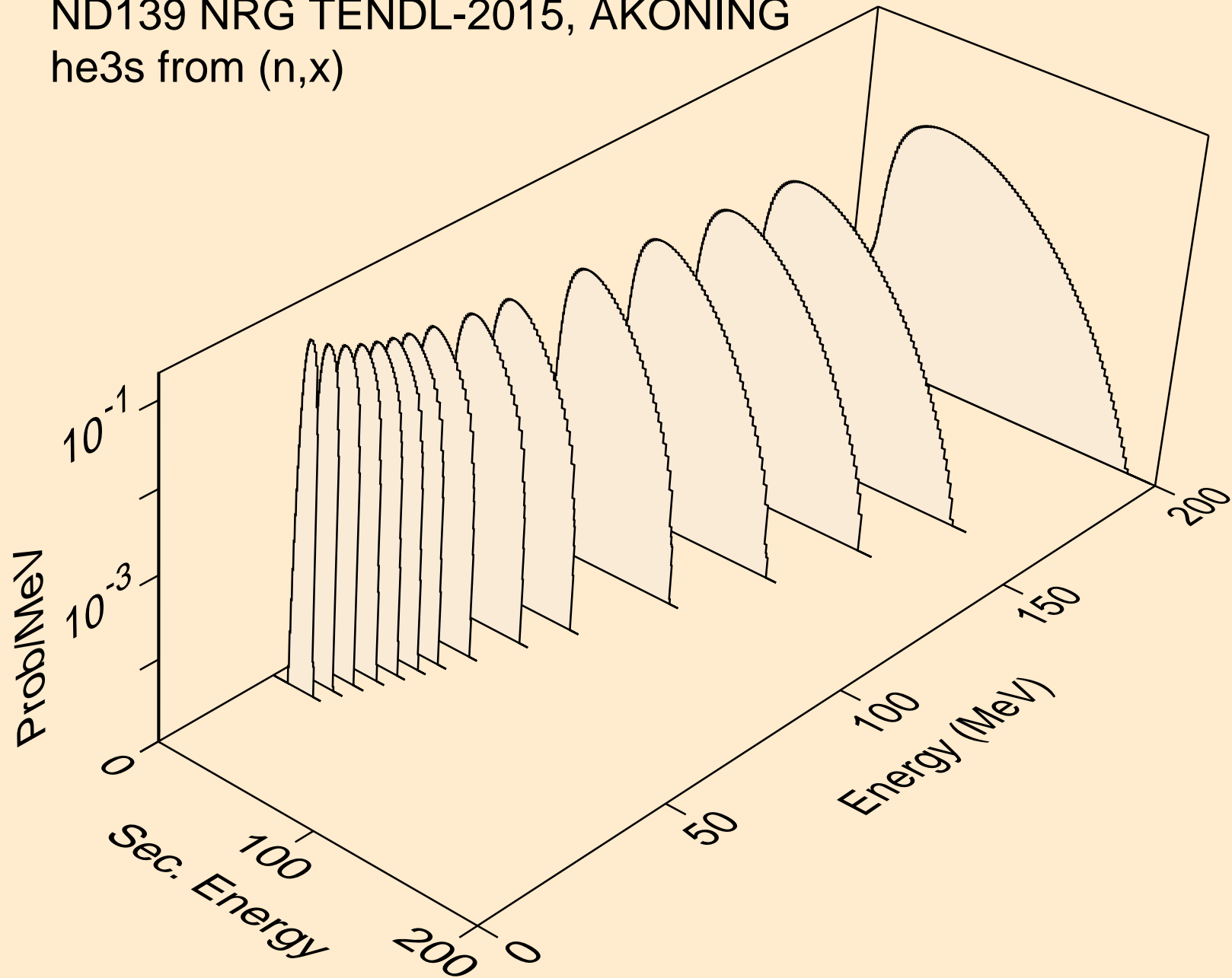
ND139 NRG TENDL-2015, AKONING  
tritons from (n,t)



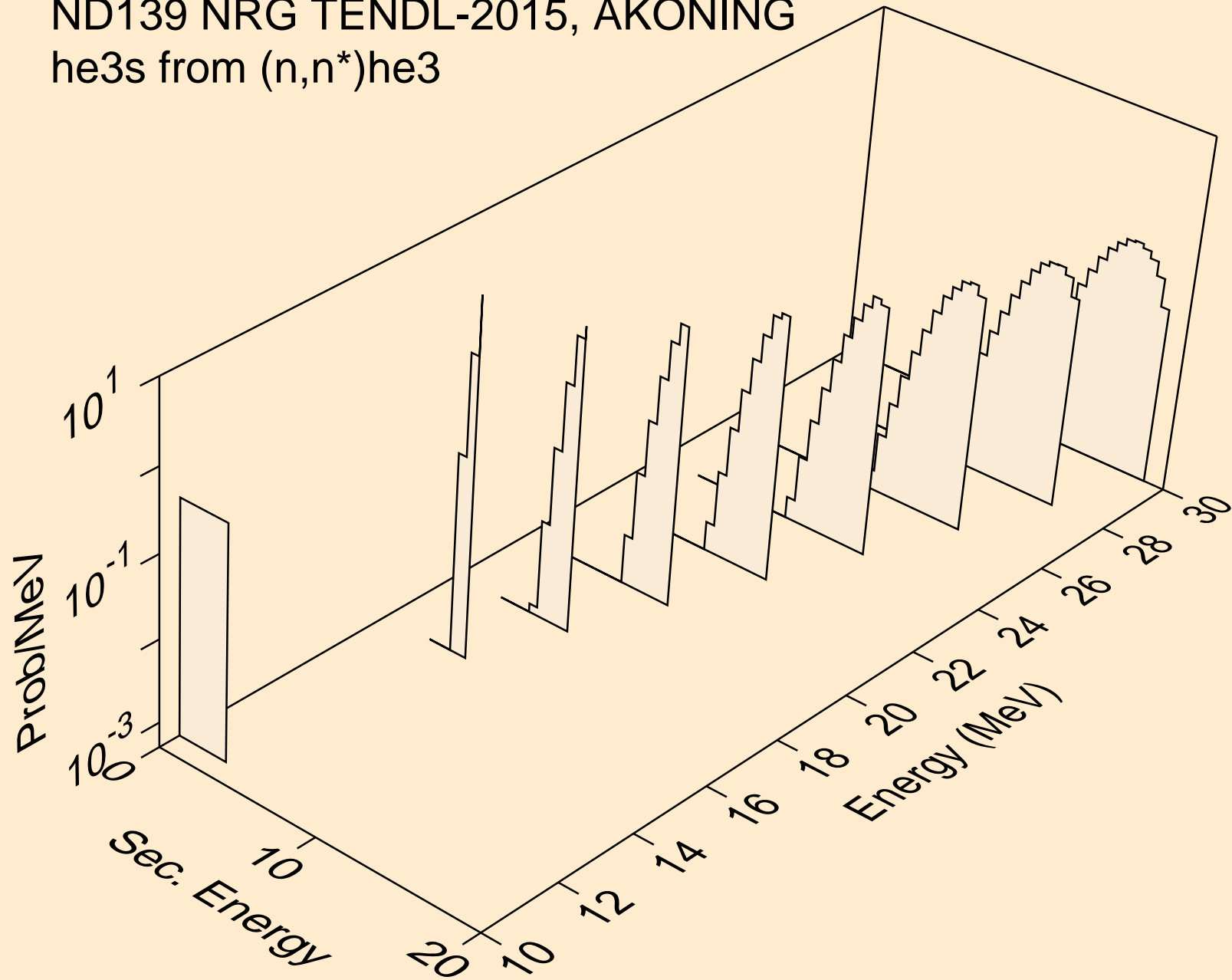
ND139 NRG TENDL-2015, AKONING  
tritons from (n,pt)



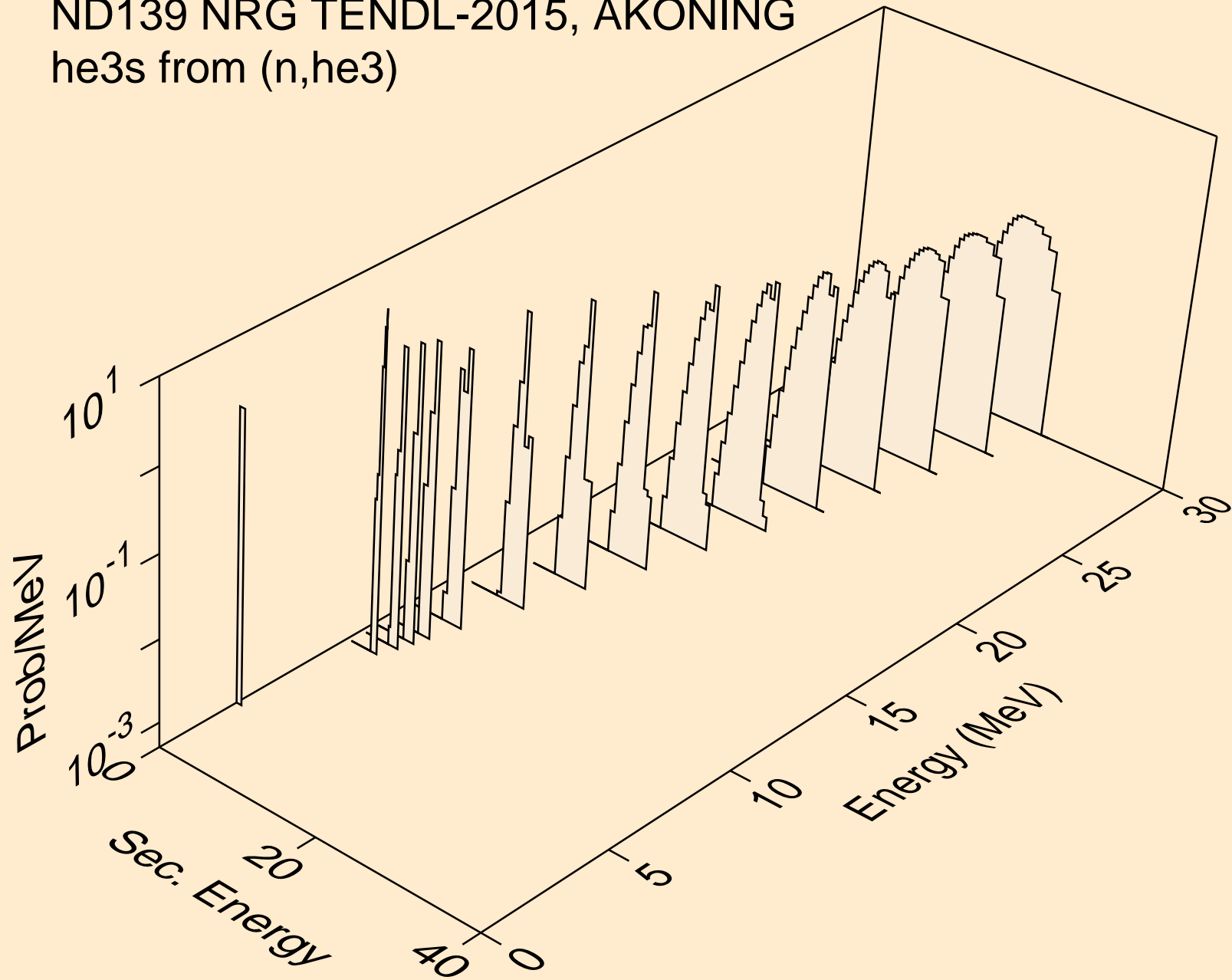
ND139 NRG TENDL-2015, AKONING  
he3s from (n,x)



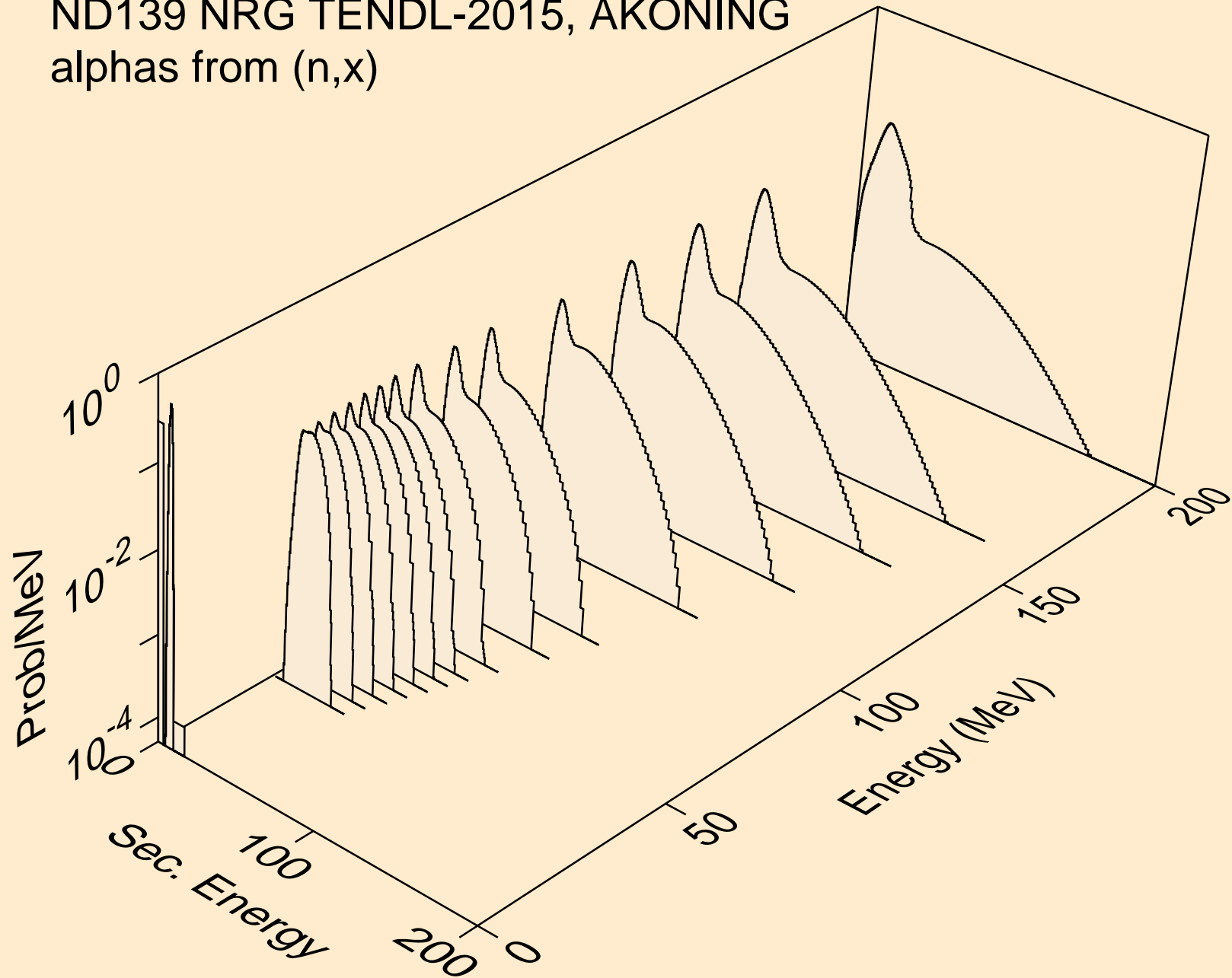
ND139 NRG TENDL-2015, AKONING  
he3s from (n,n\*)he3



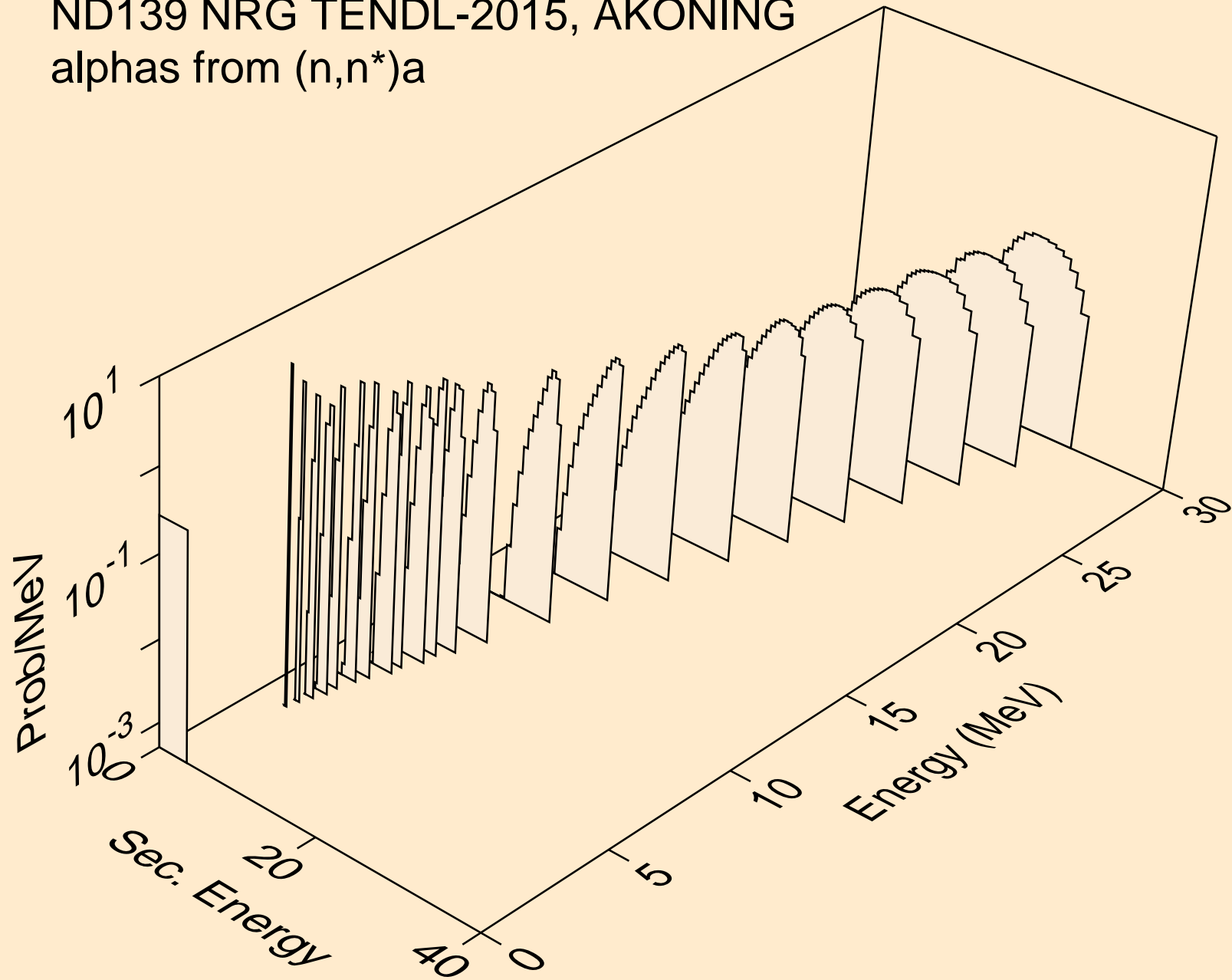
ND139 NRG TENDL-2015, AKONING  
he3s from (n,he3)



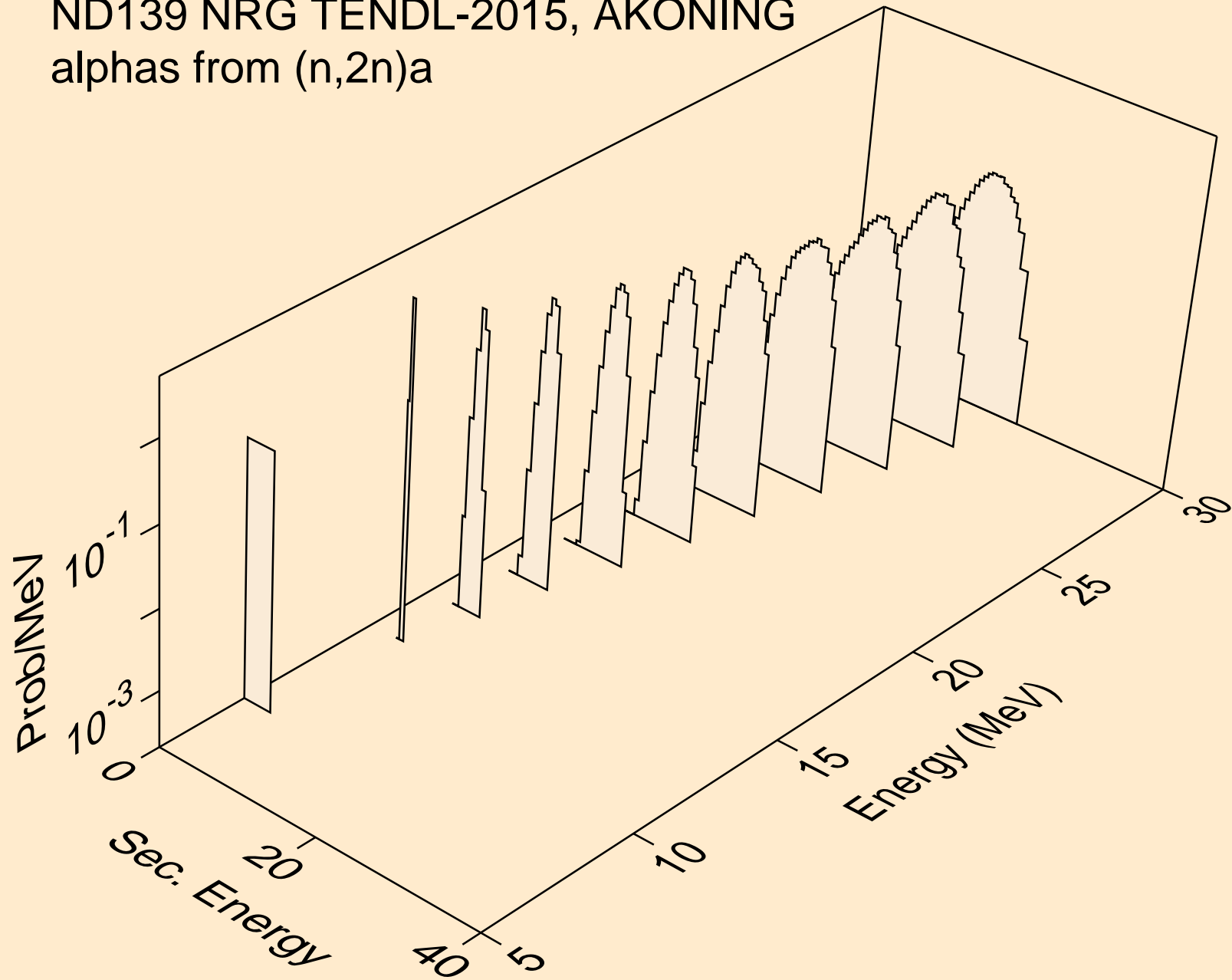
ND139 NRG TENDL-2015, AKONING  
alphas from (n,x)



ND139 NRG TENDL-2015, AKONING  
alphas from (n,n\*)a

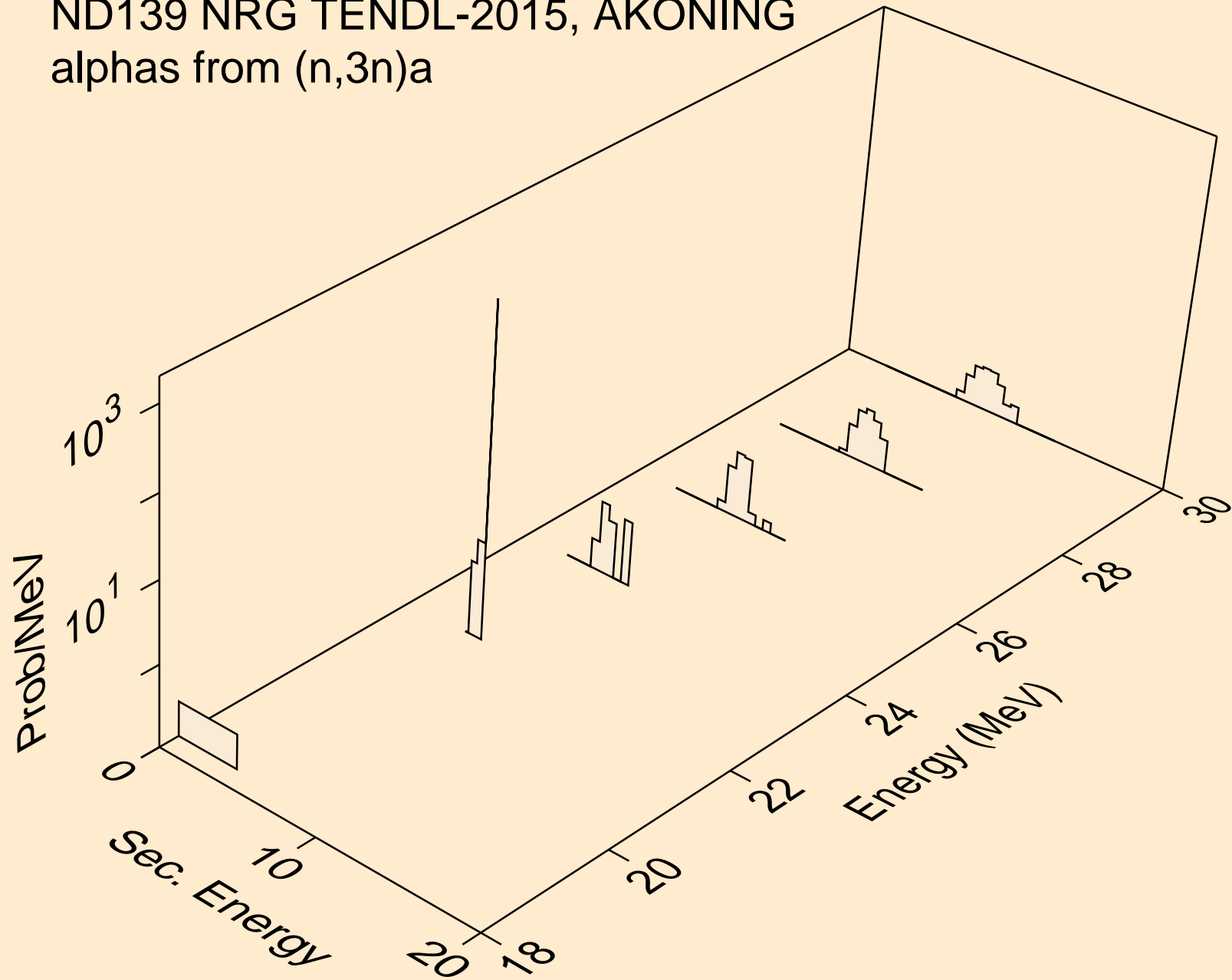


ND139 NRG TENDL-2015, AKONING  
alphas from (n,2n)a

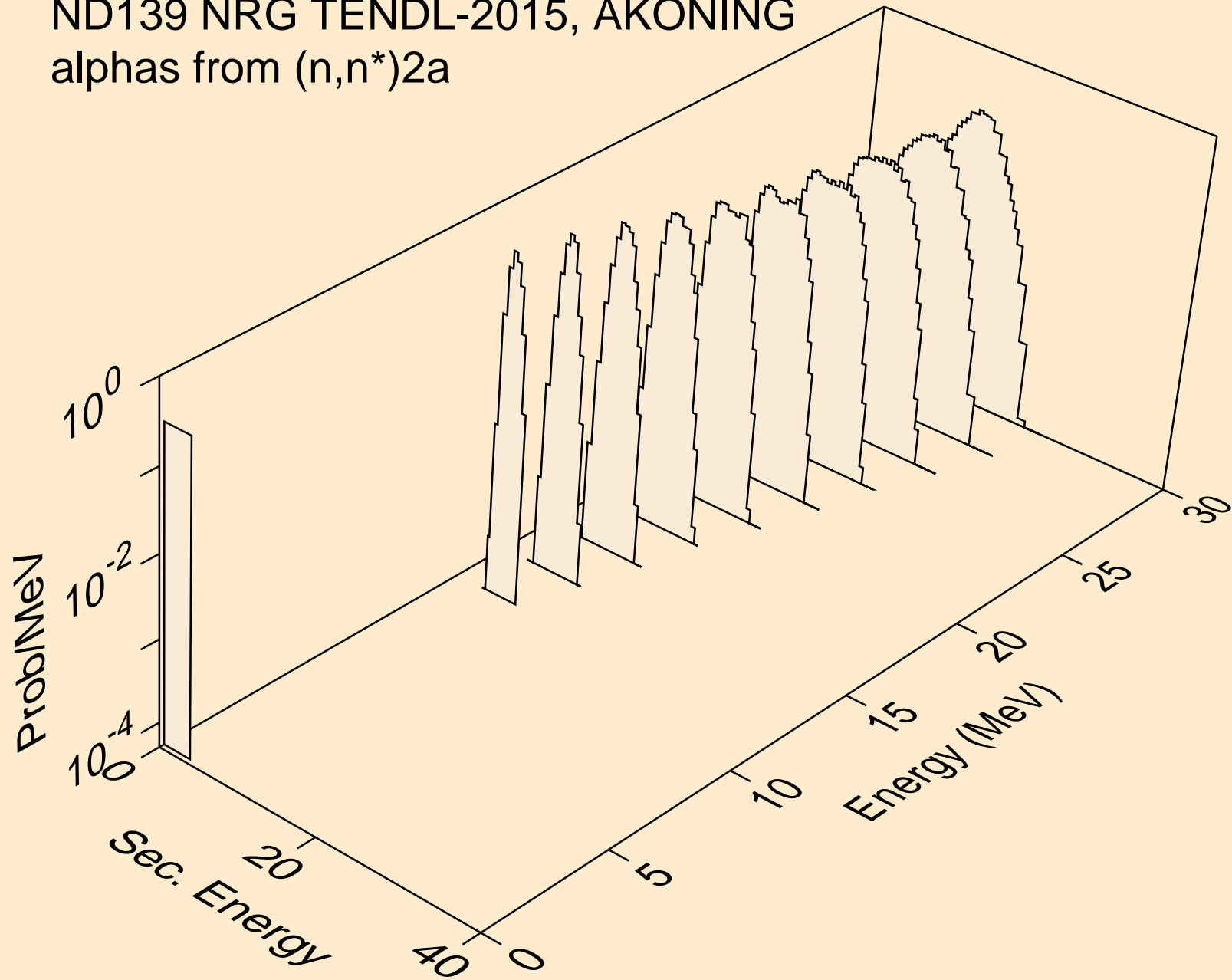




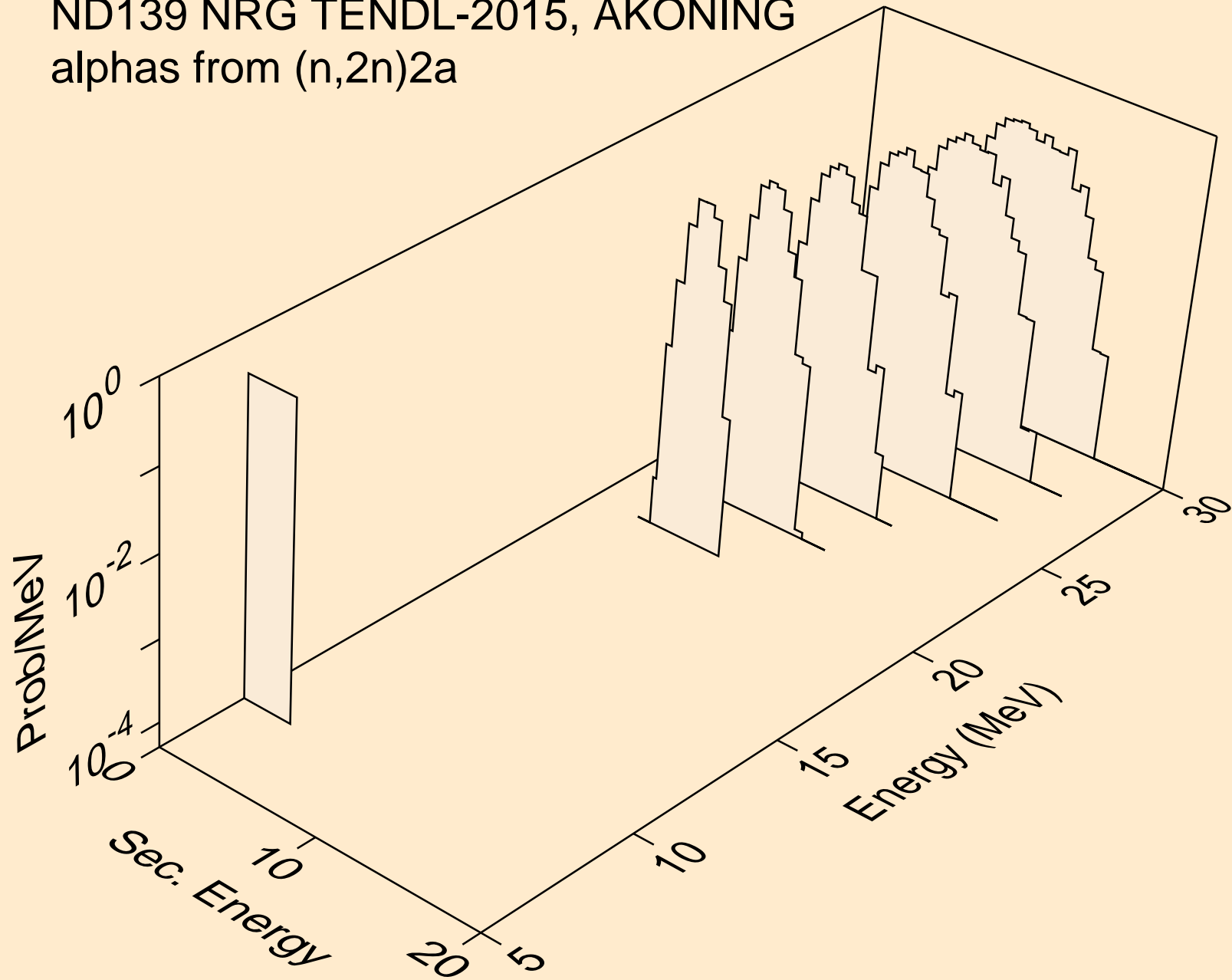
ND139 NRG TENDL-2015, AKONING  
alphas from (n,3n)a



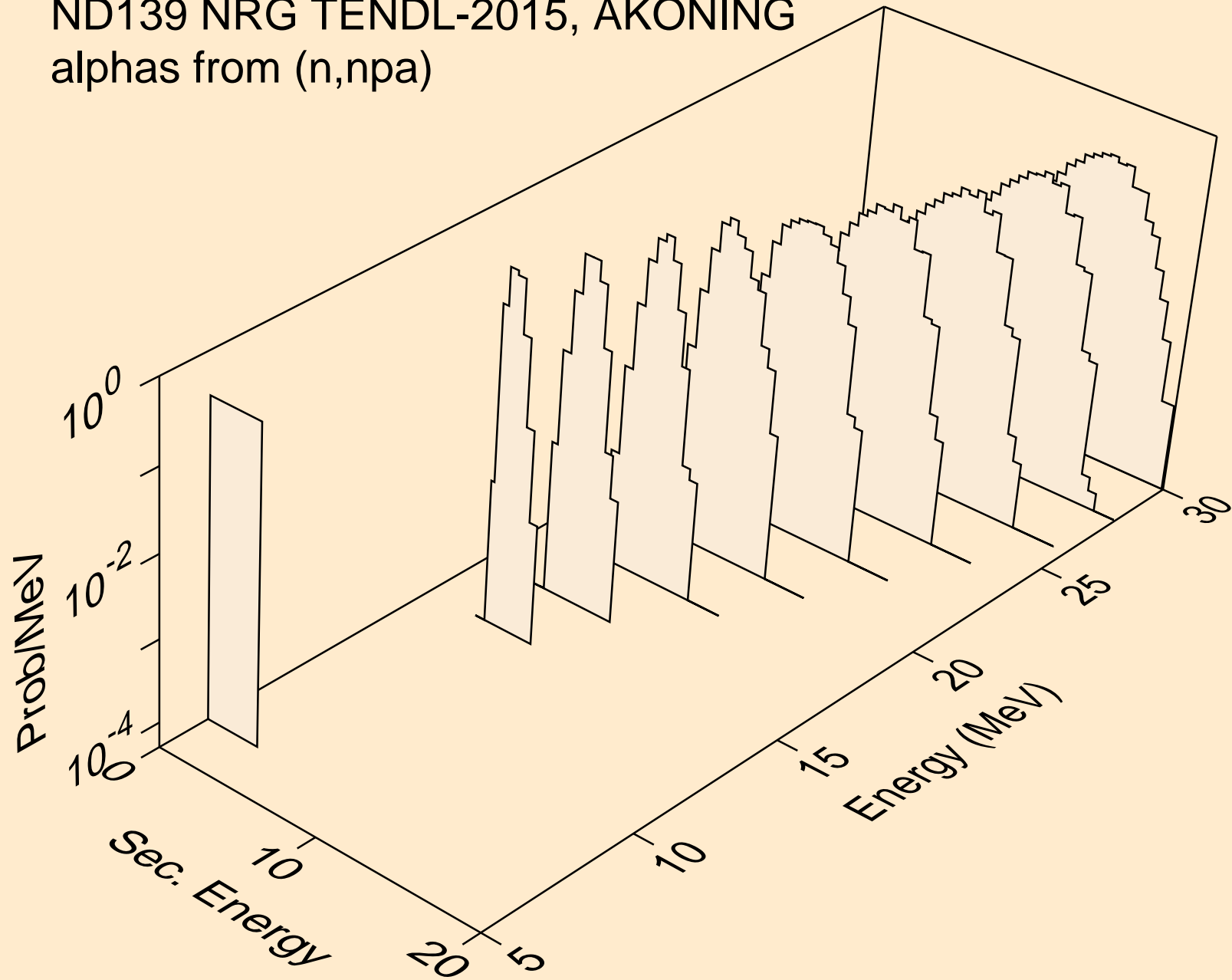
ND139 NRG TENDL-2015, AKONING  
alphas from (n,n\*)2a



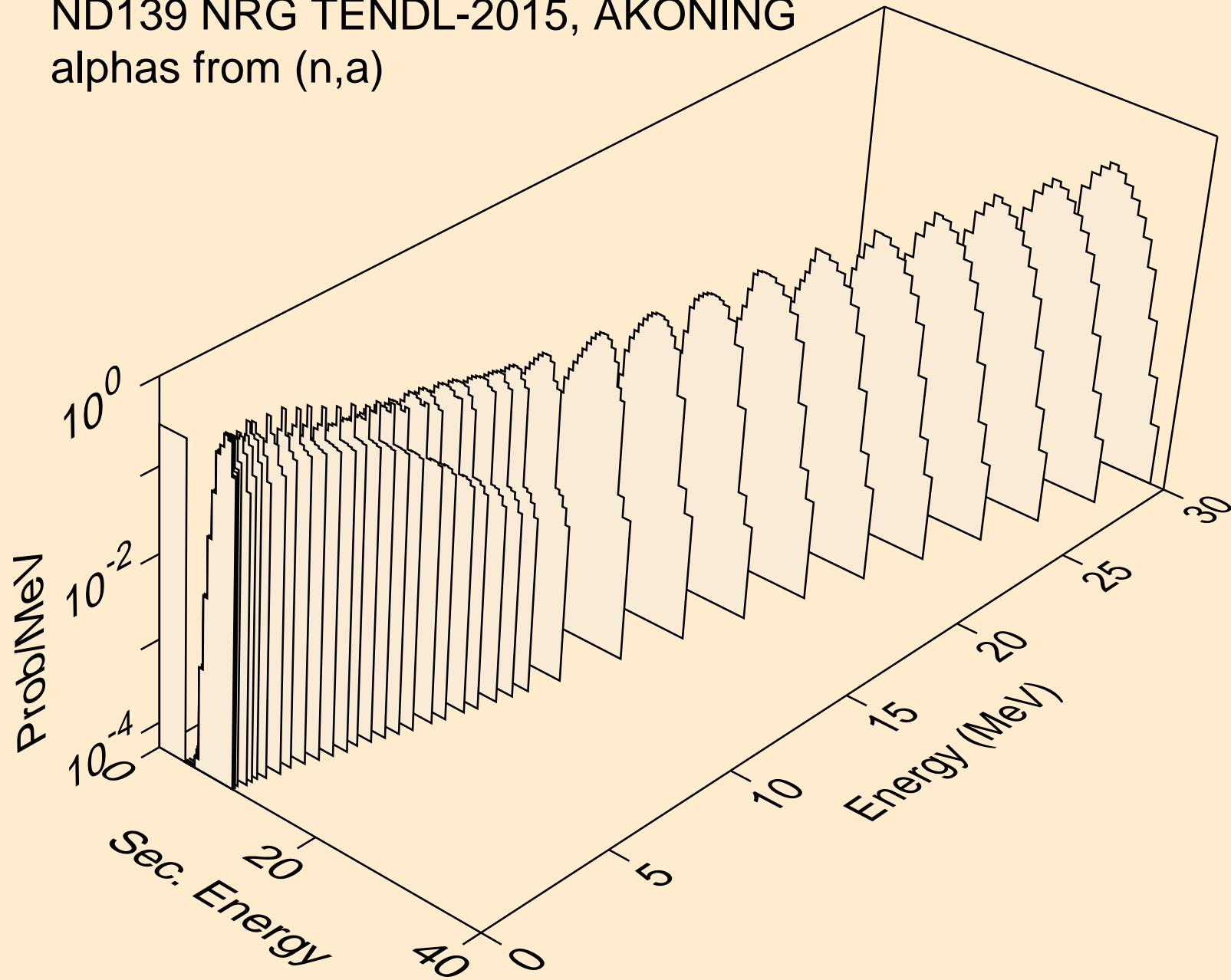
ND139 NRG TENDL-2015, AKONING  
alphas from (n,2n)2a



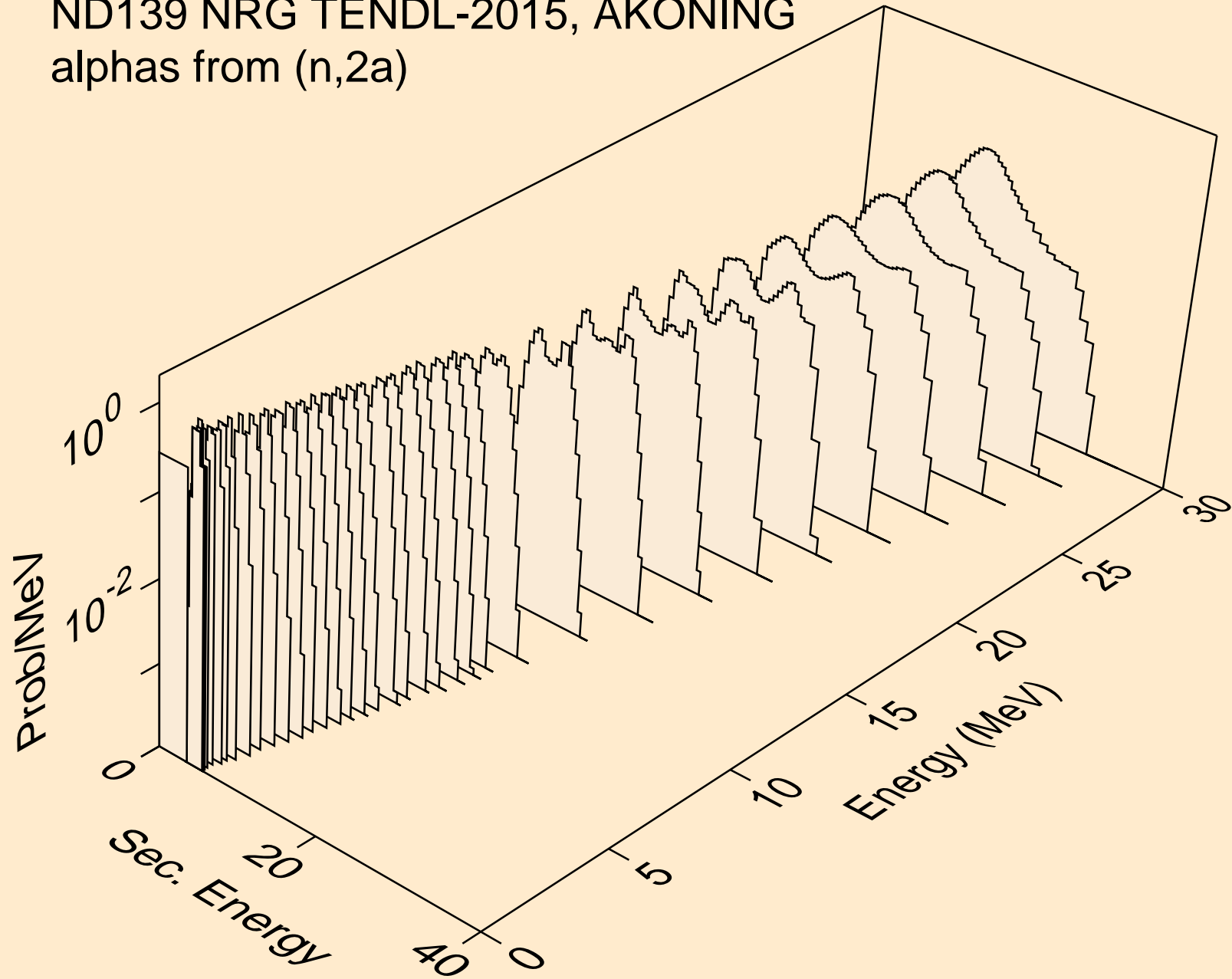
ND139 NRG TENDL-2015, AKONING  
alphas from (n,npa)



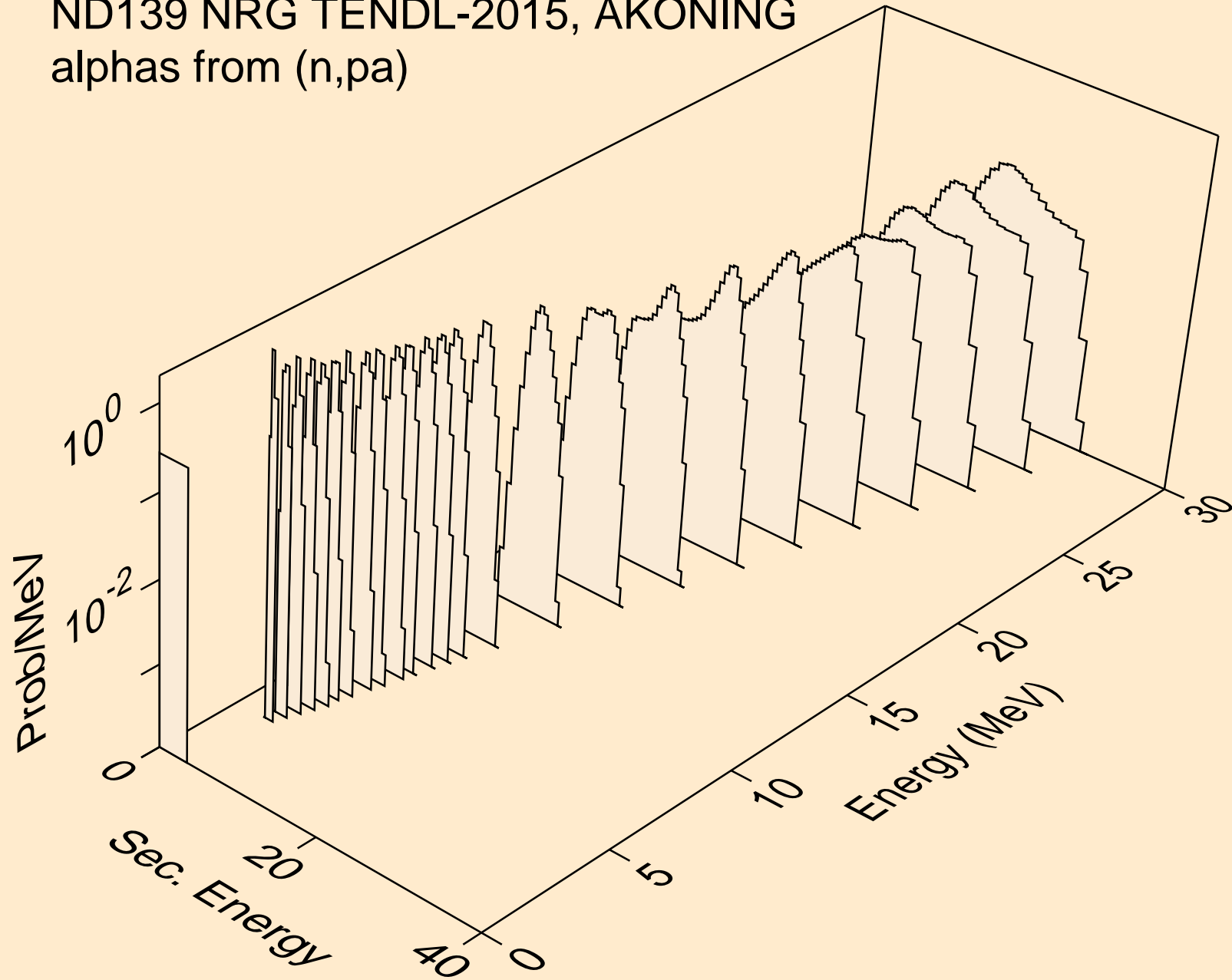
ND139 NRG TENDL-2015, AKONING  
alphas from (n,a)



ND139 NRG TENDL-2015, AKONING  
alphas from (n,2a)



ND139 NRG TENDL-2015, AKONING  
alphas from (n,pa)



ND139 NRG TENDL-2015, AKONING  
alphas from (n,da)

