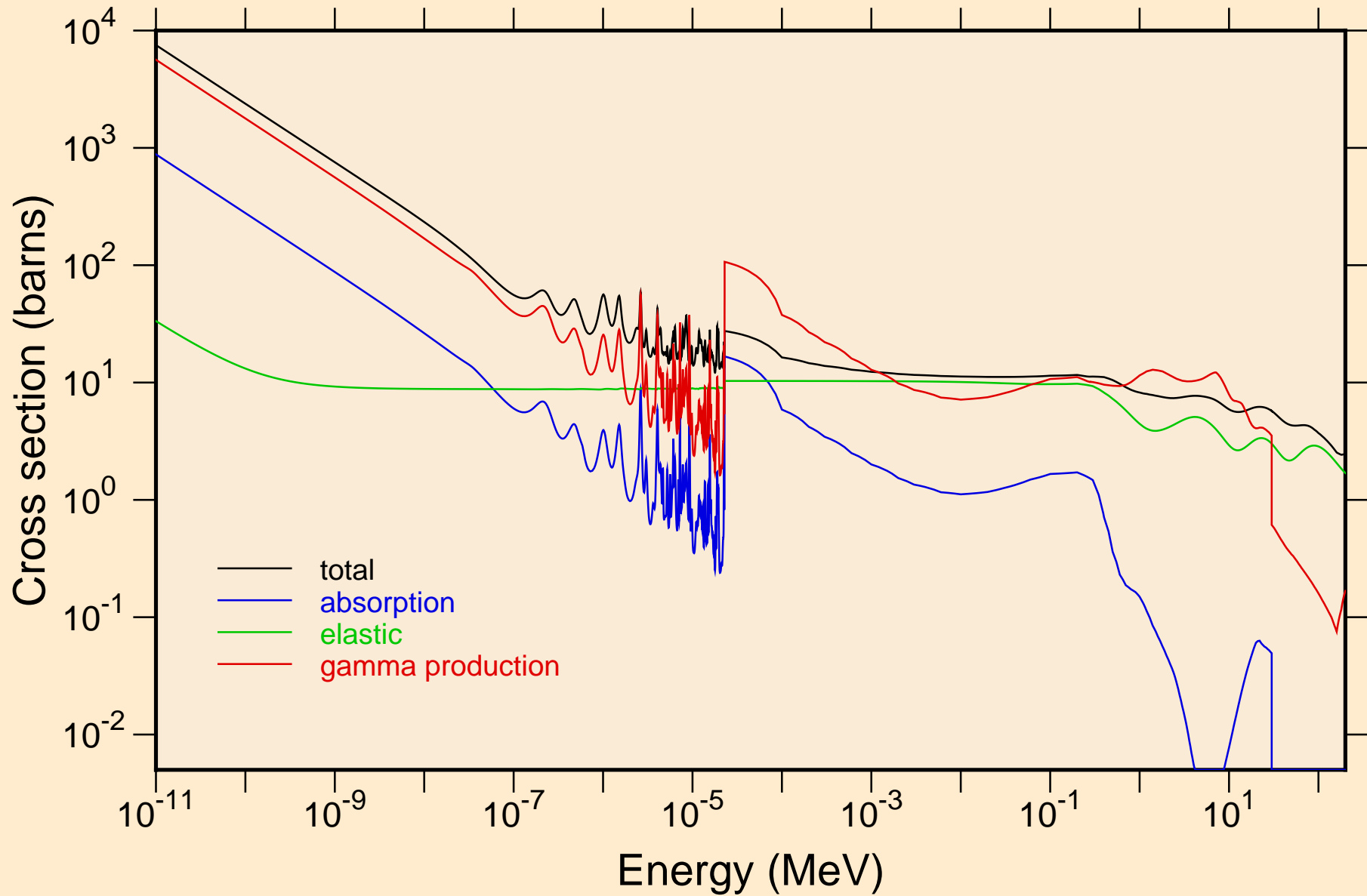


# ES244 NRG TENDL-2015, AKONING

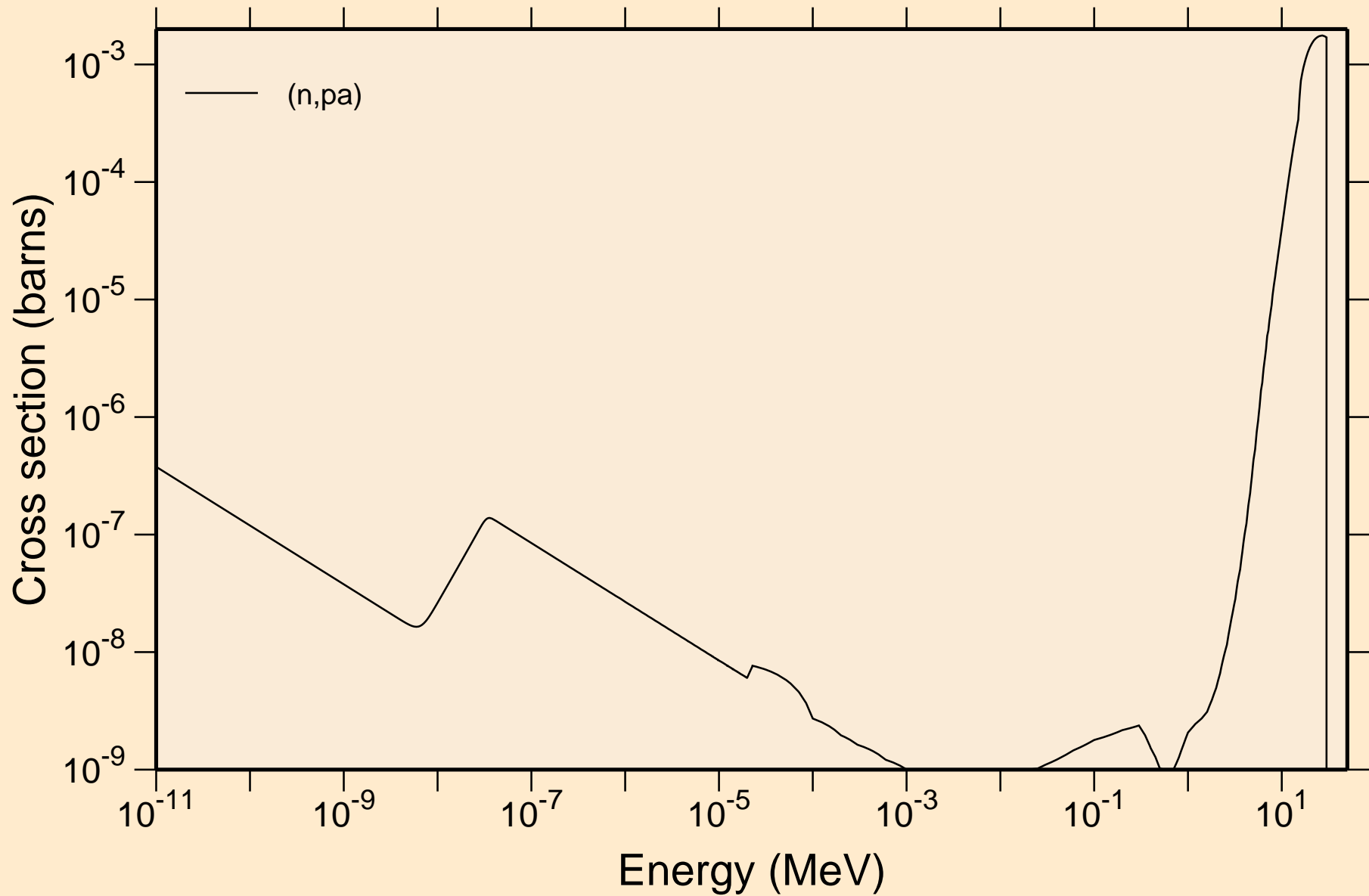
## Principal cross sections





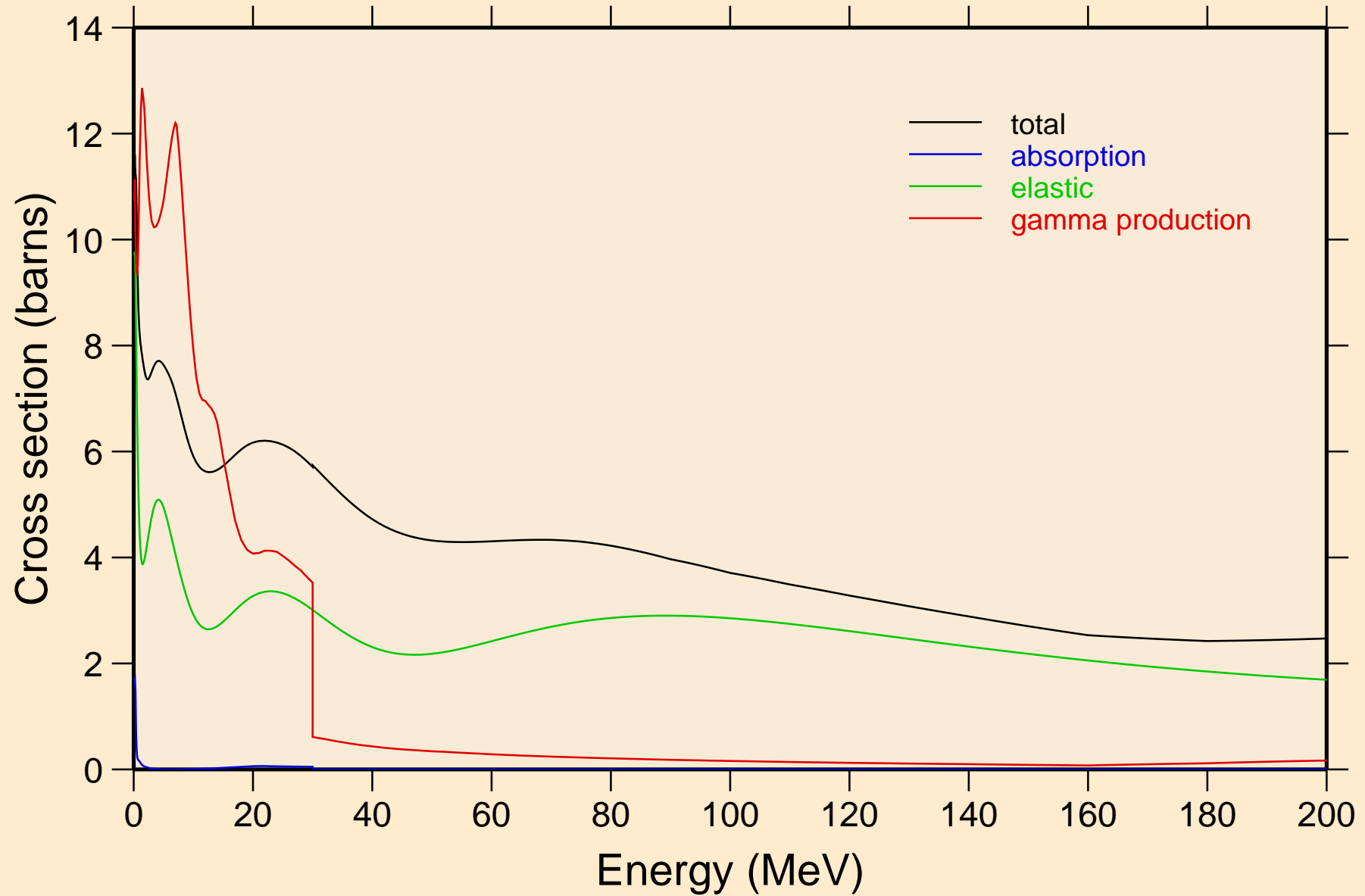
# ES244 NRG TENDL-2015, AKONING

## Non-threshold reactions



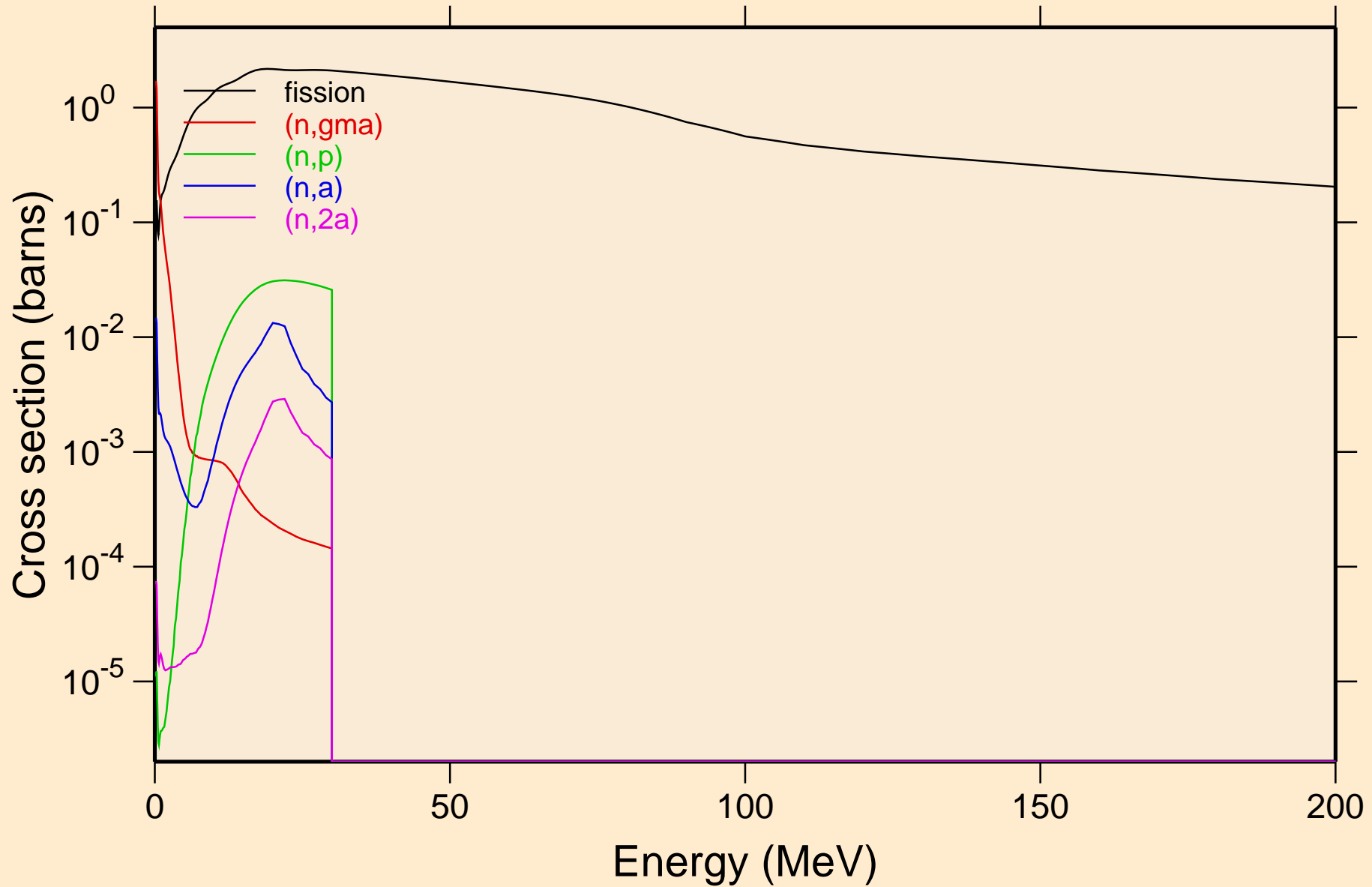
# ES244 NRG TENDL-2015, AKONING

## Principal cross sections



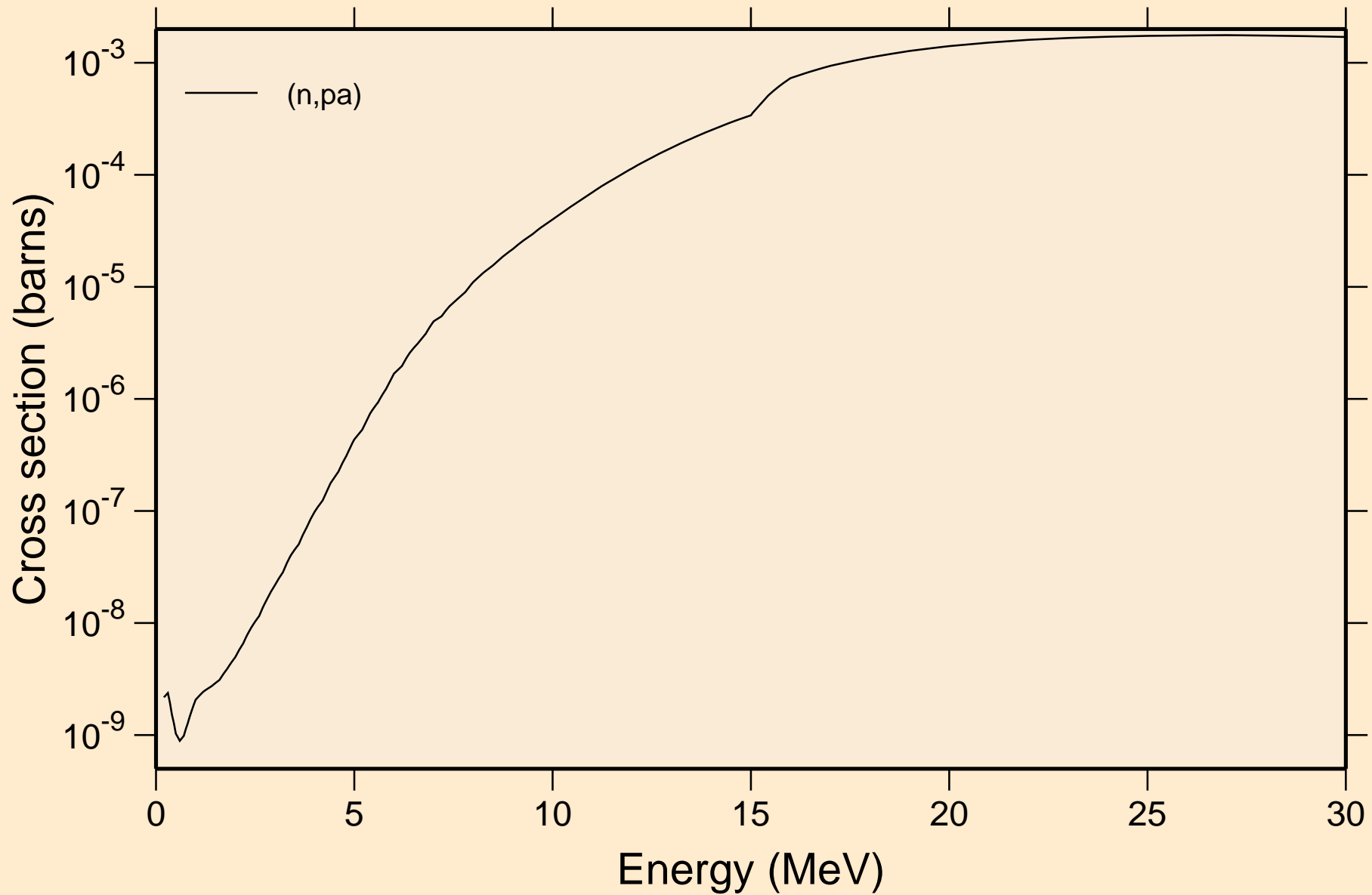
# ES244 NRG TENDL-2015, AKONING

## Non-threshold reactions



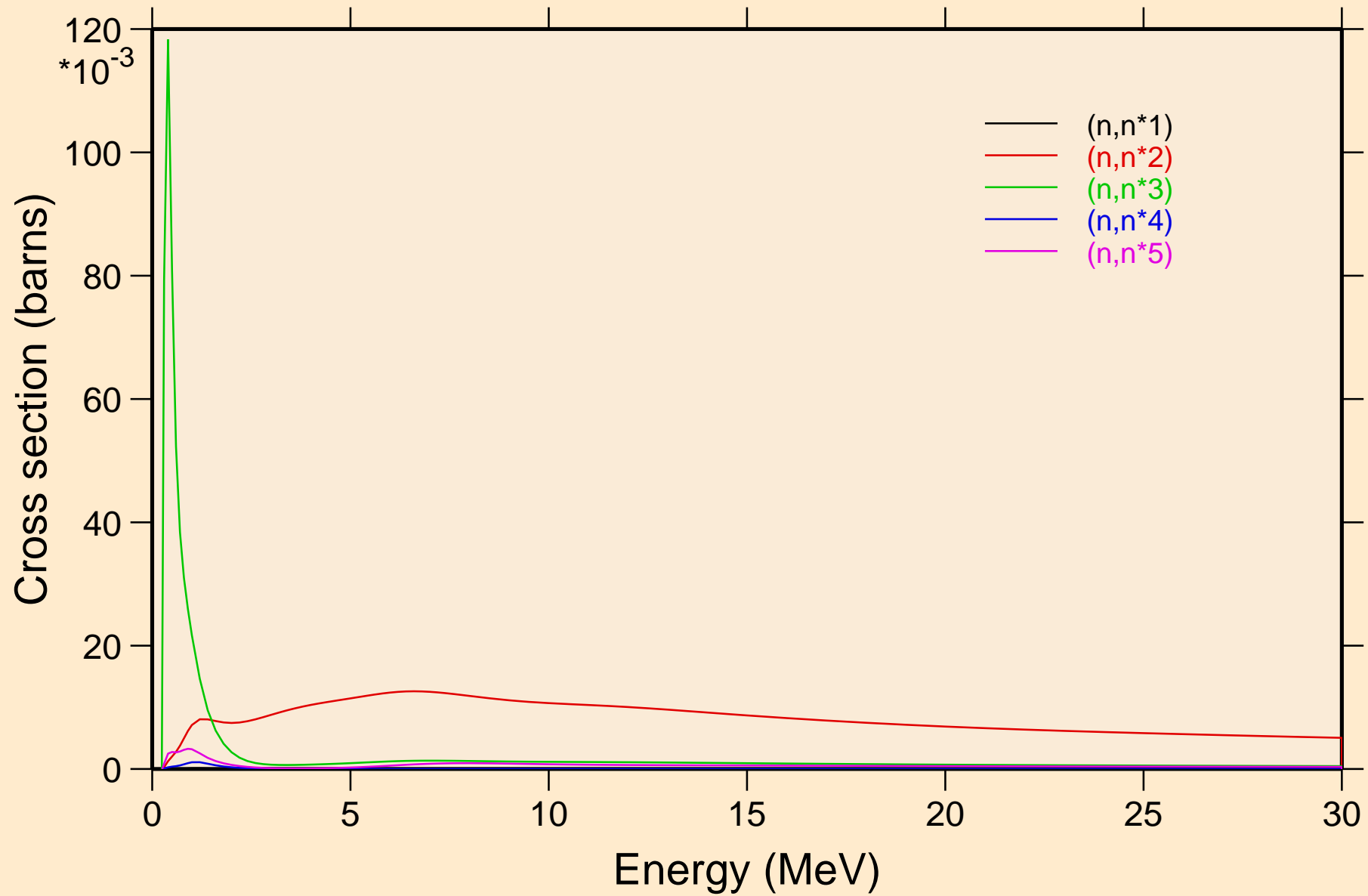
# ES244 NRG TENDL-2015, AKONING

## Non-threshold reactions



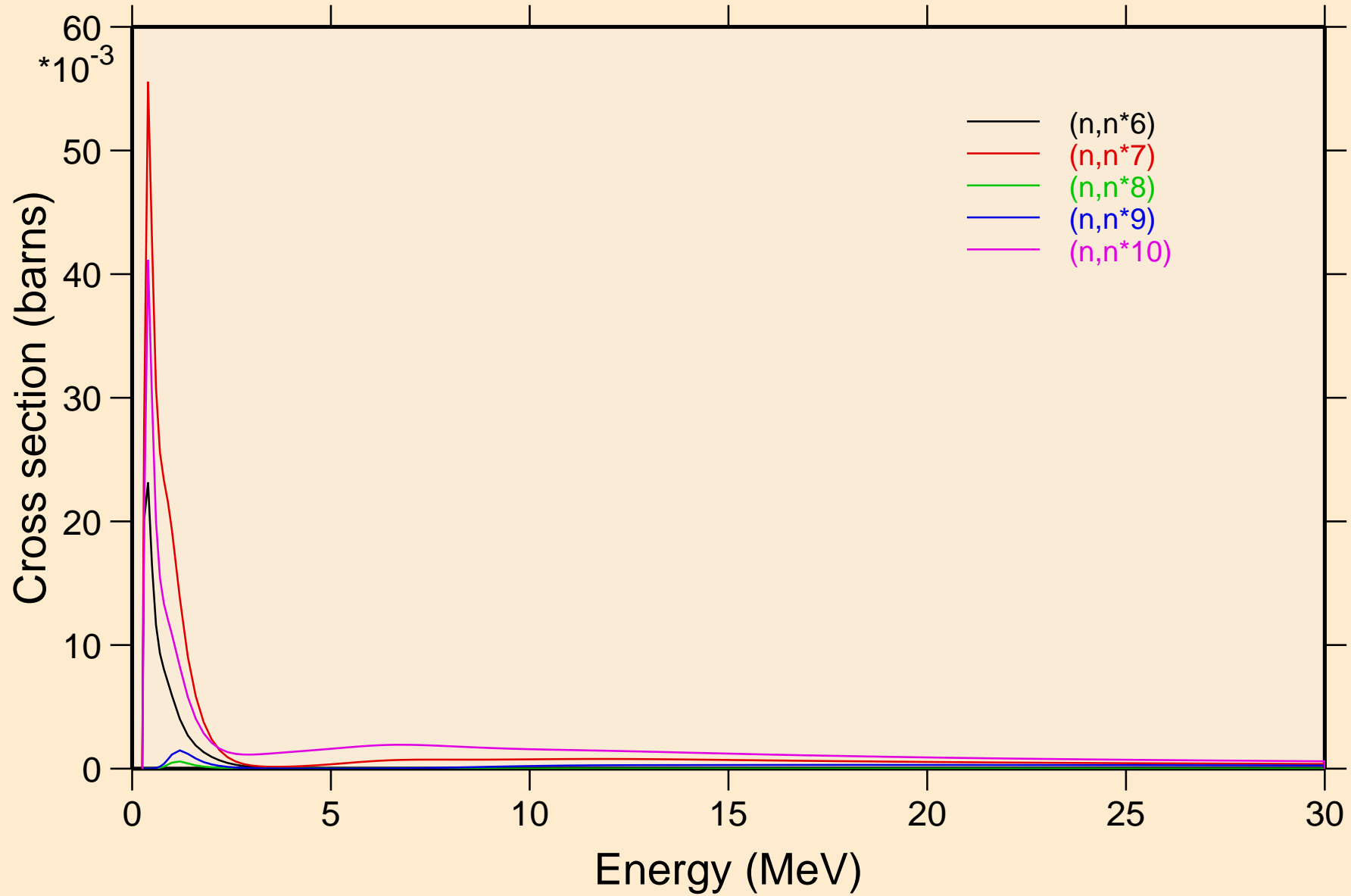
# ES244 NRG TENDL-2015, AKONING

## Inelastic levels



# ES244 NRG TENDL-2015, AKONING

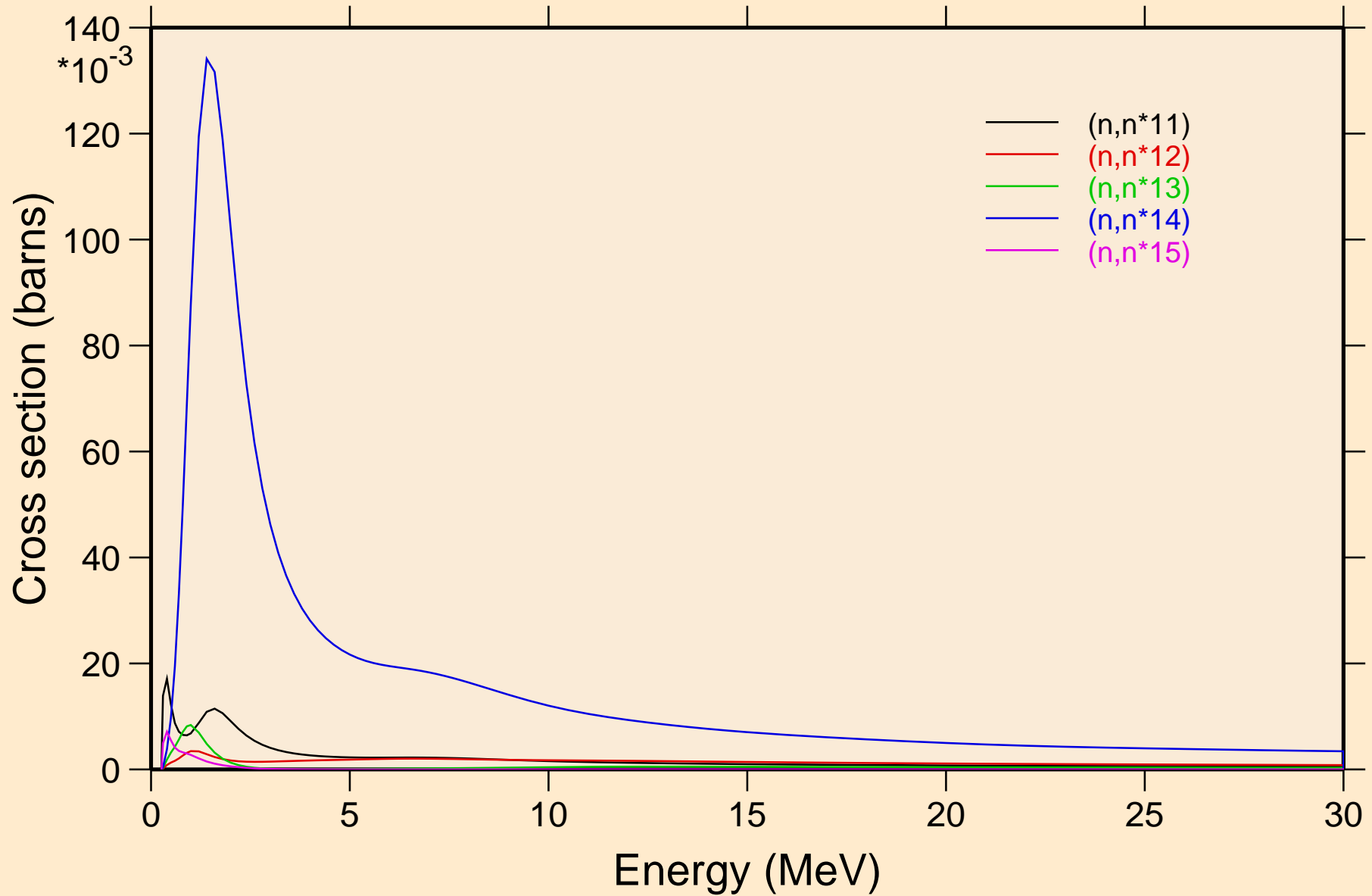
## Inelastic levels





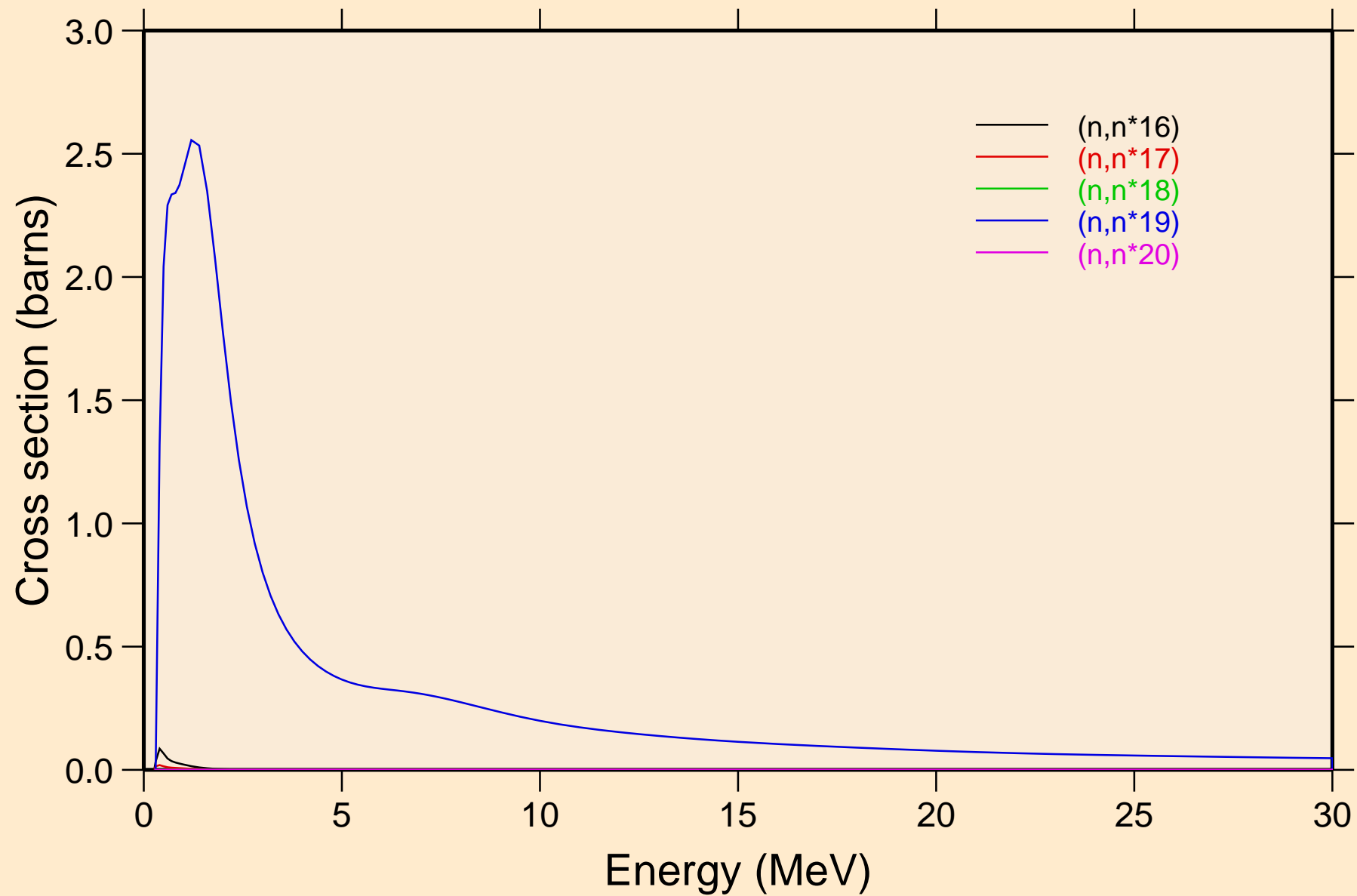
# ES244 NRG TENDL-2015, AKONING

## Inelastic levels



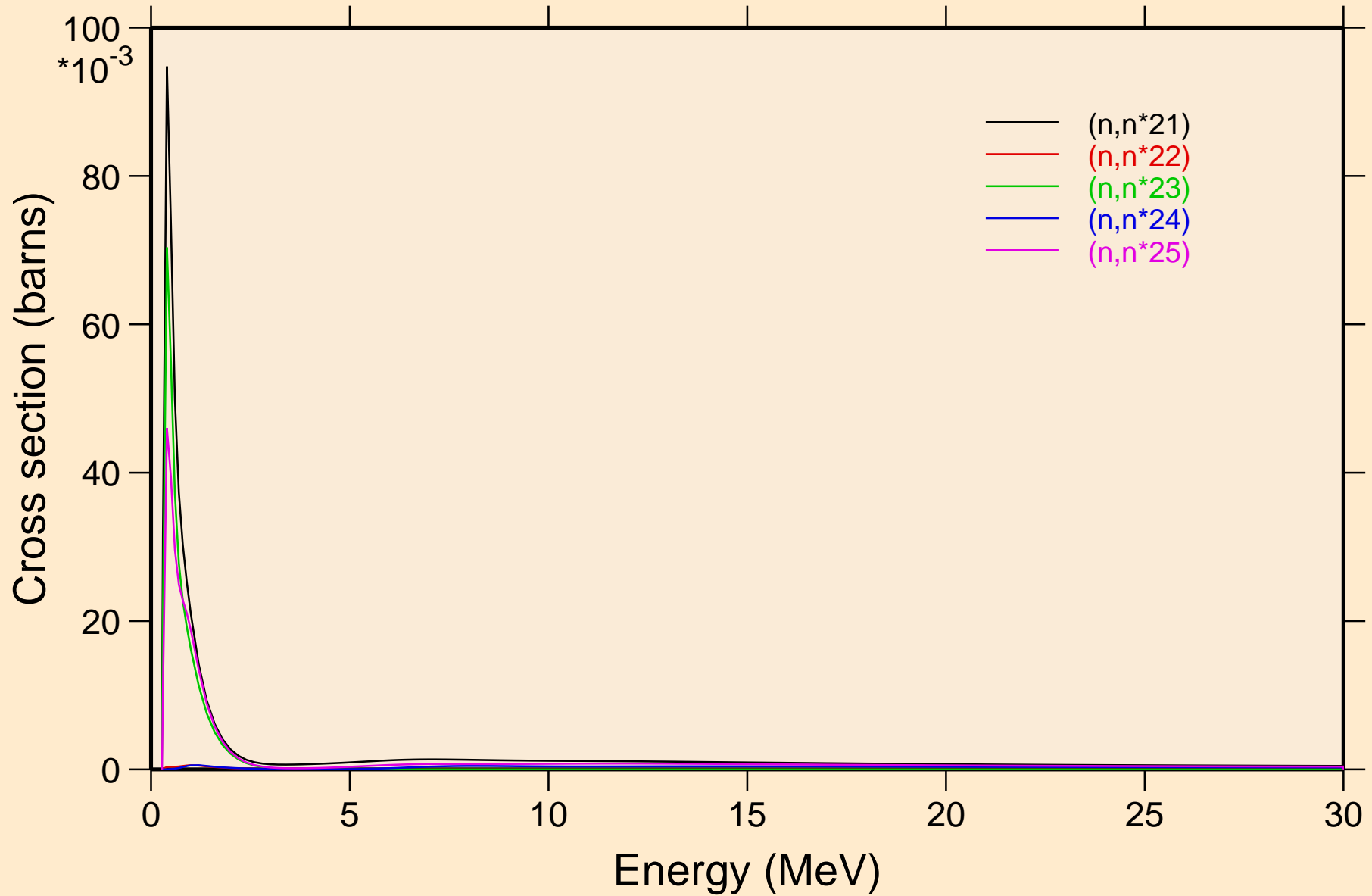
# ES244 NRG TENDL-2015, AKONING

## Inelastic levels



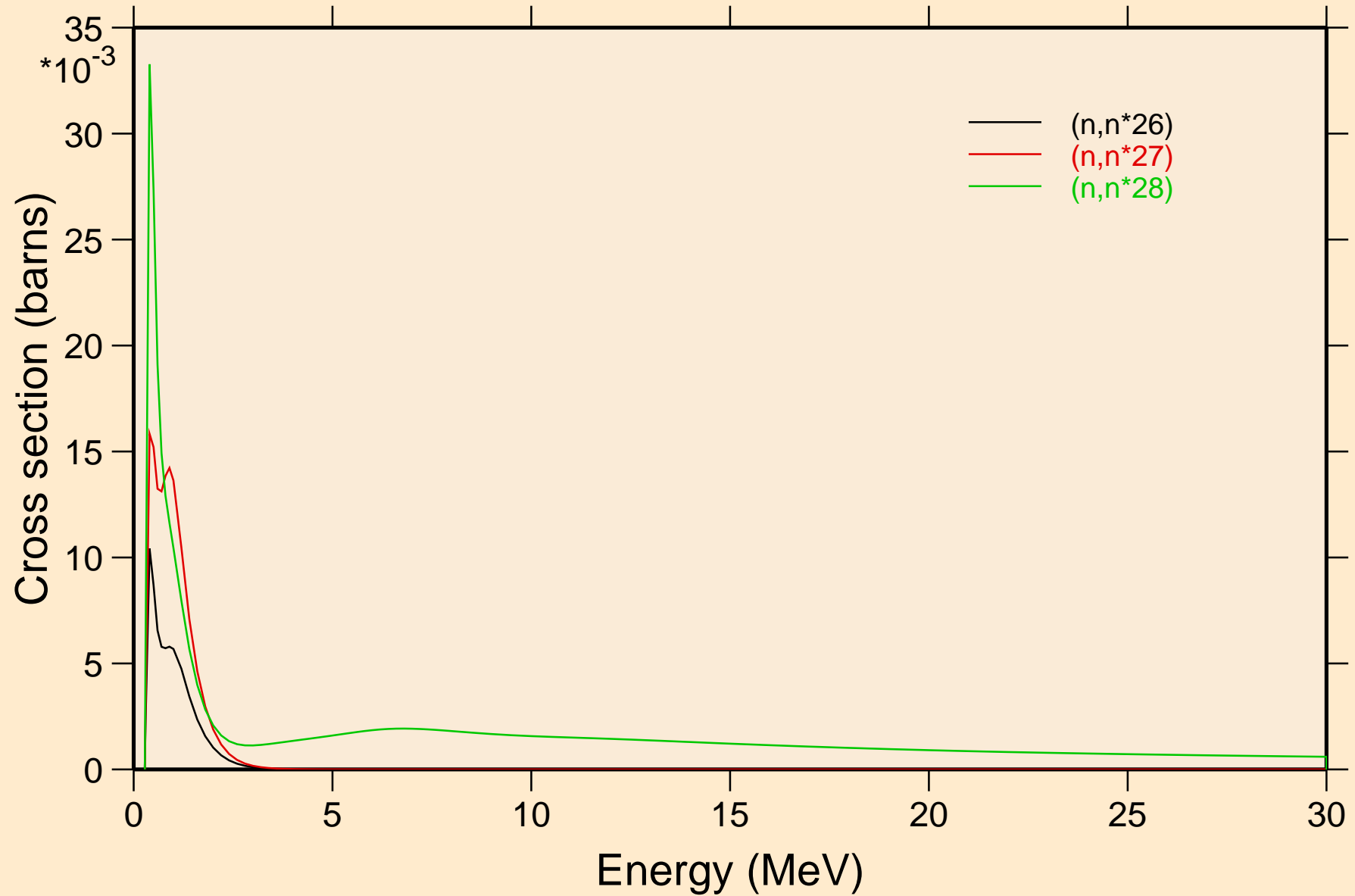
# ES244 NRG TENDL-2015, AKONING

## Inelastic levels



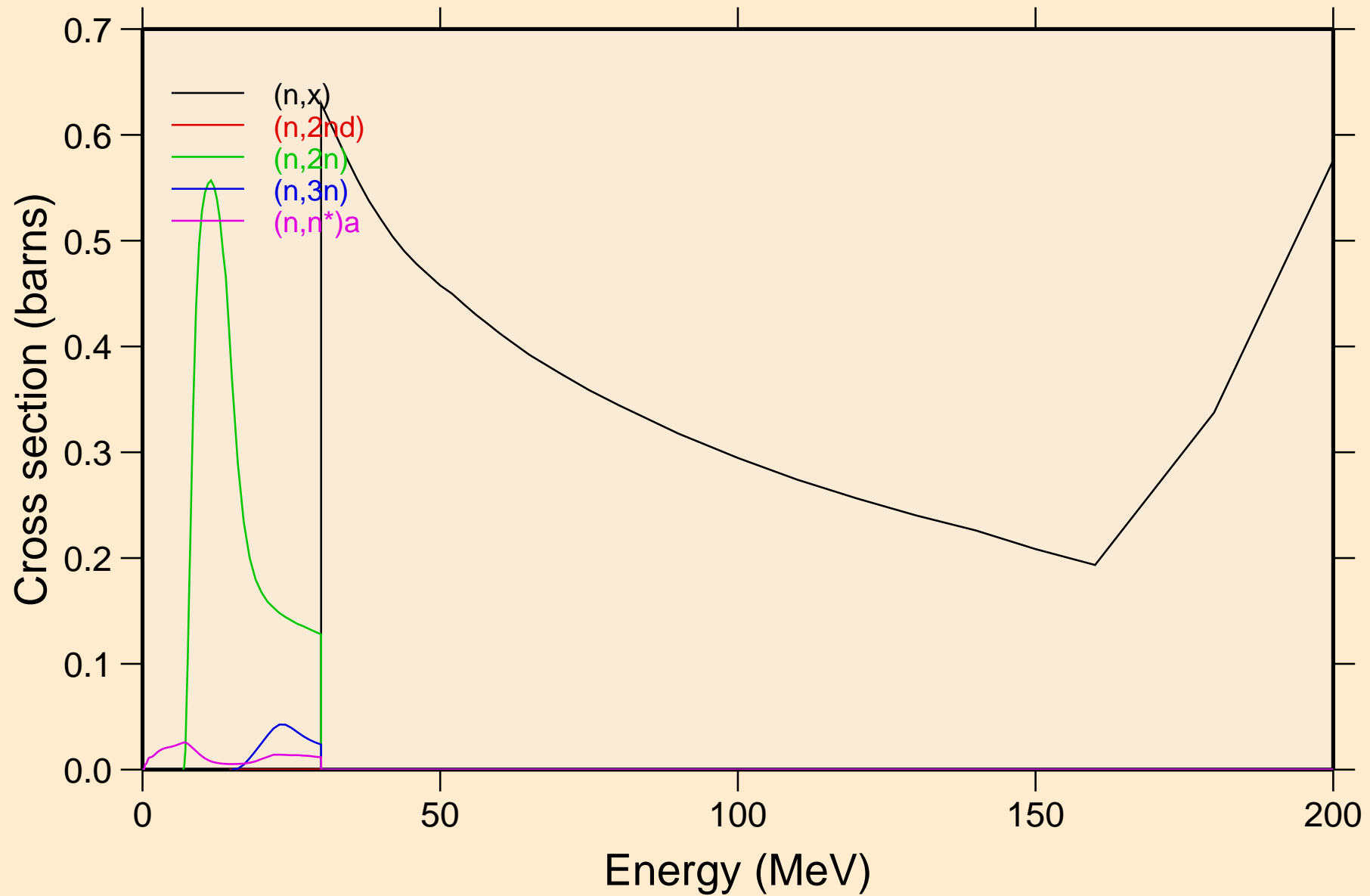
# ES244 NRG TENDL-2015, AKONING

## Inelastic levels



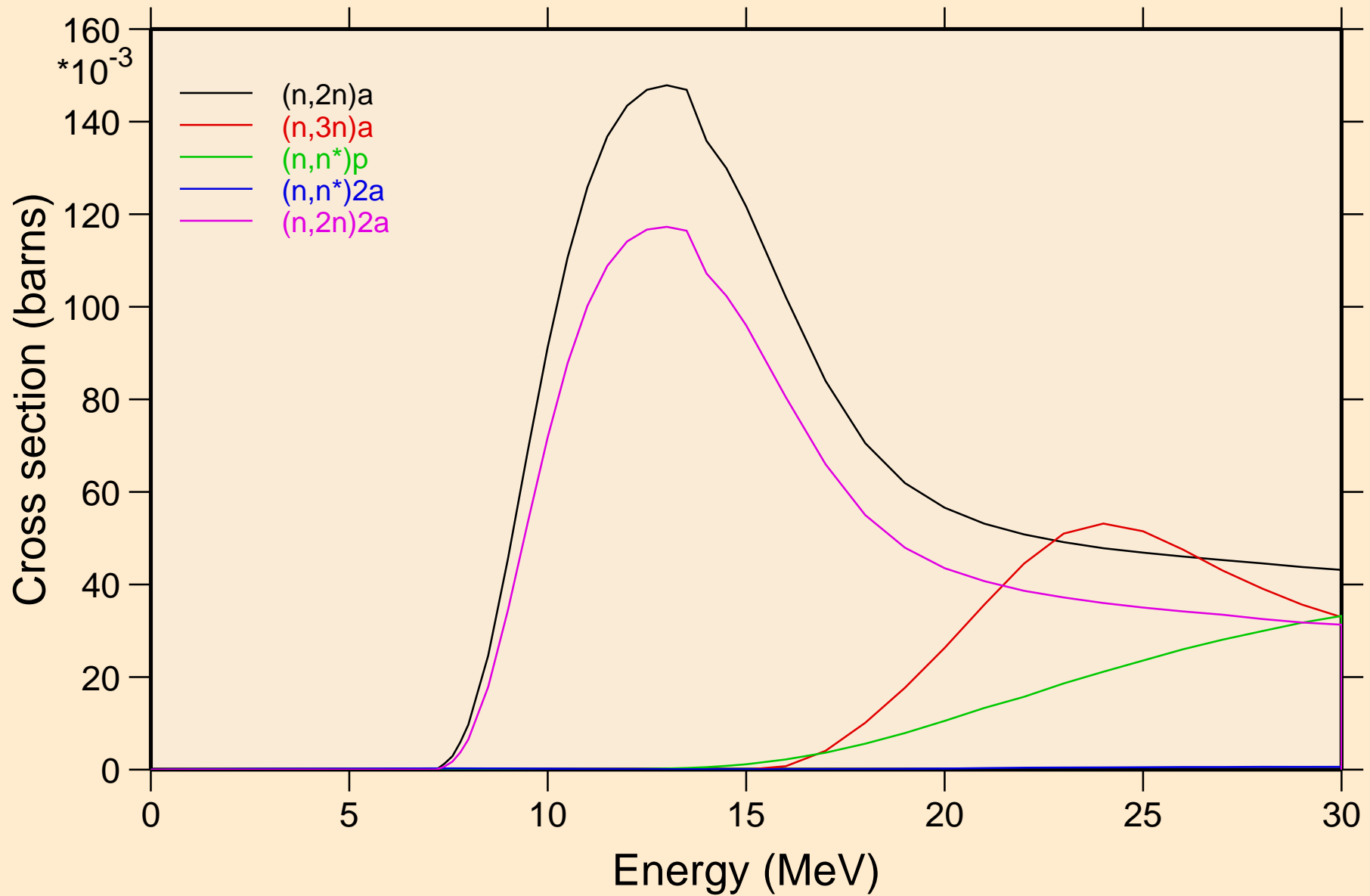
# ES244 NRG TENDL-2015, AKONING

## Threshold reactions



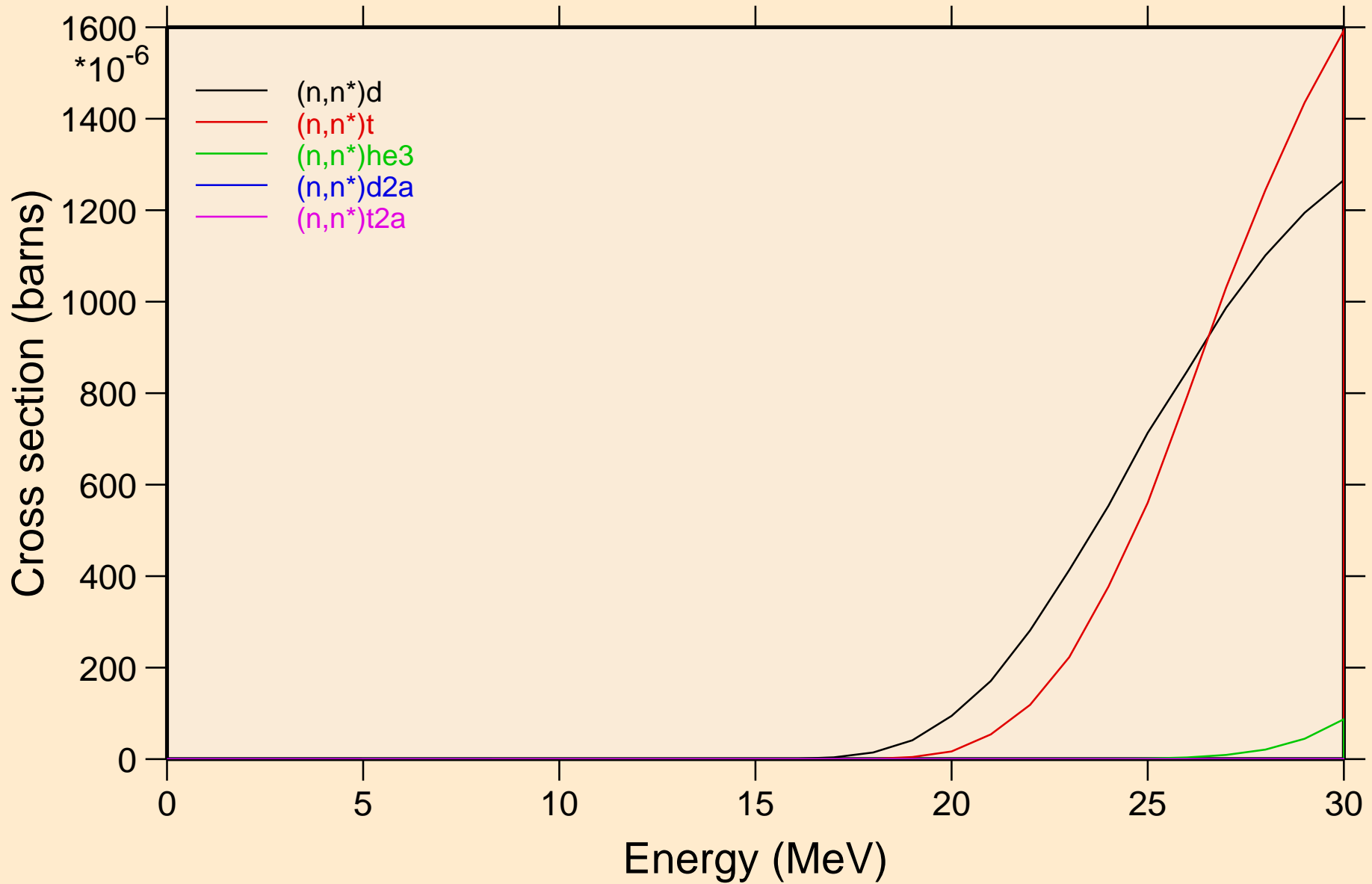
# ES244 NRG TENDL-2015, AKONING

## Threshold reactions



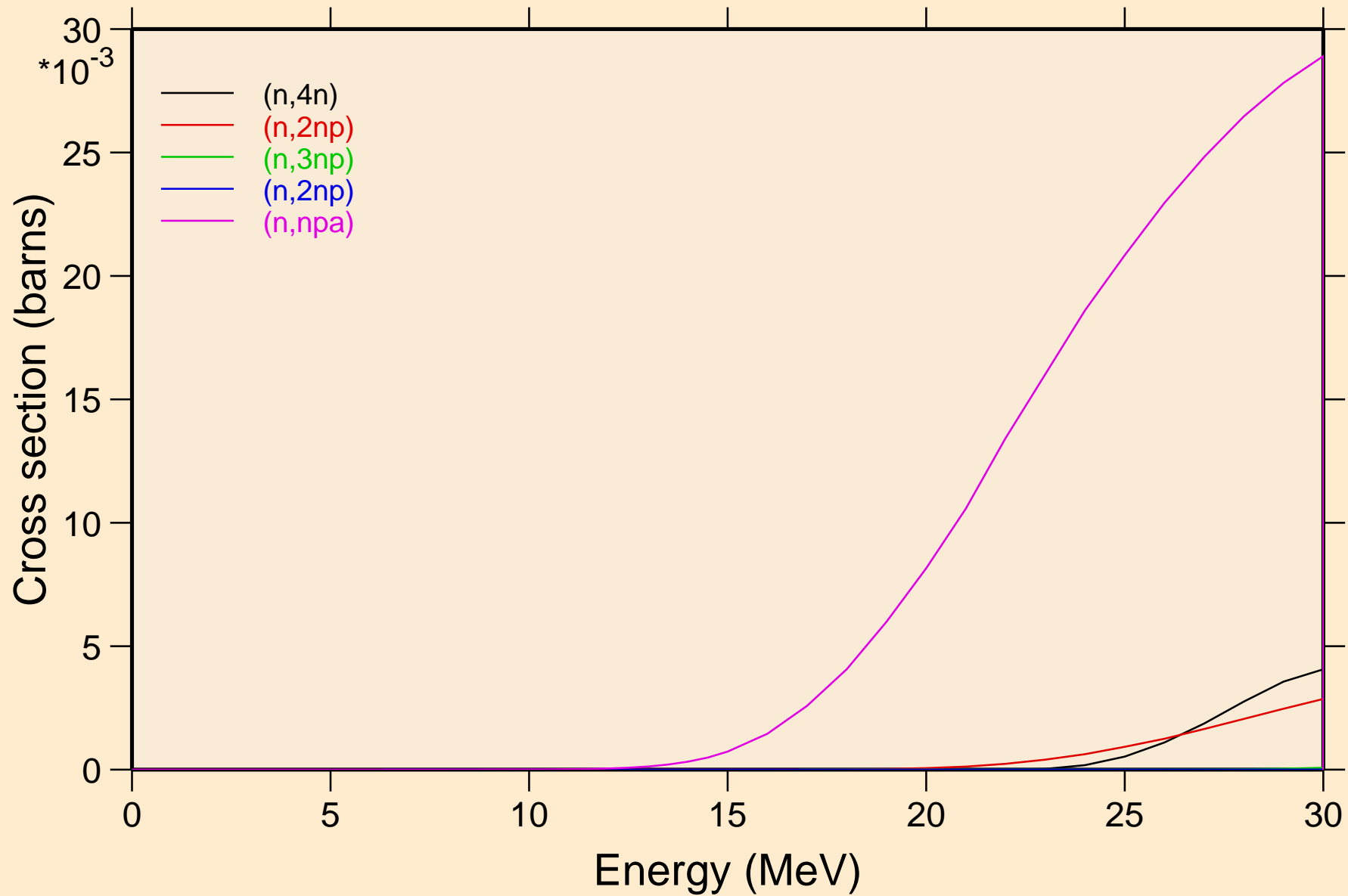
# ES244 NRG TENDL-2015, AKONING

## Threshold reactions



# ES244 NRG TENDL-2015, AKONING

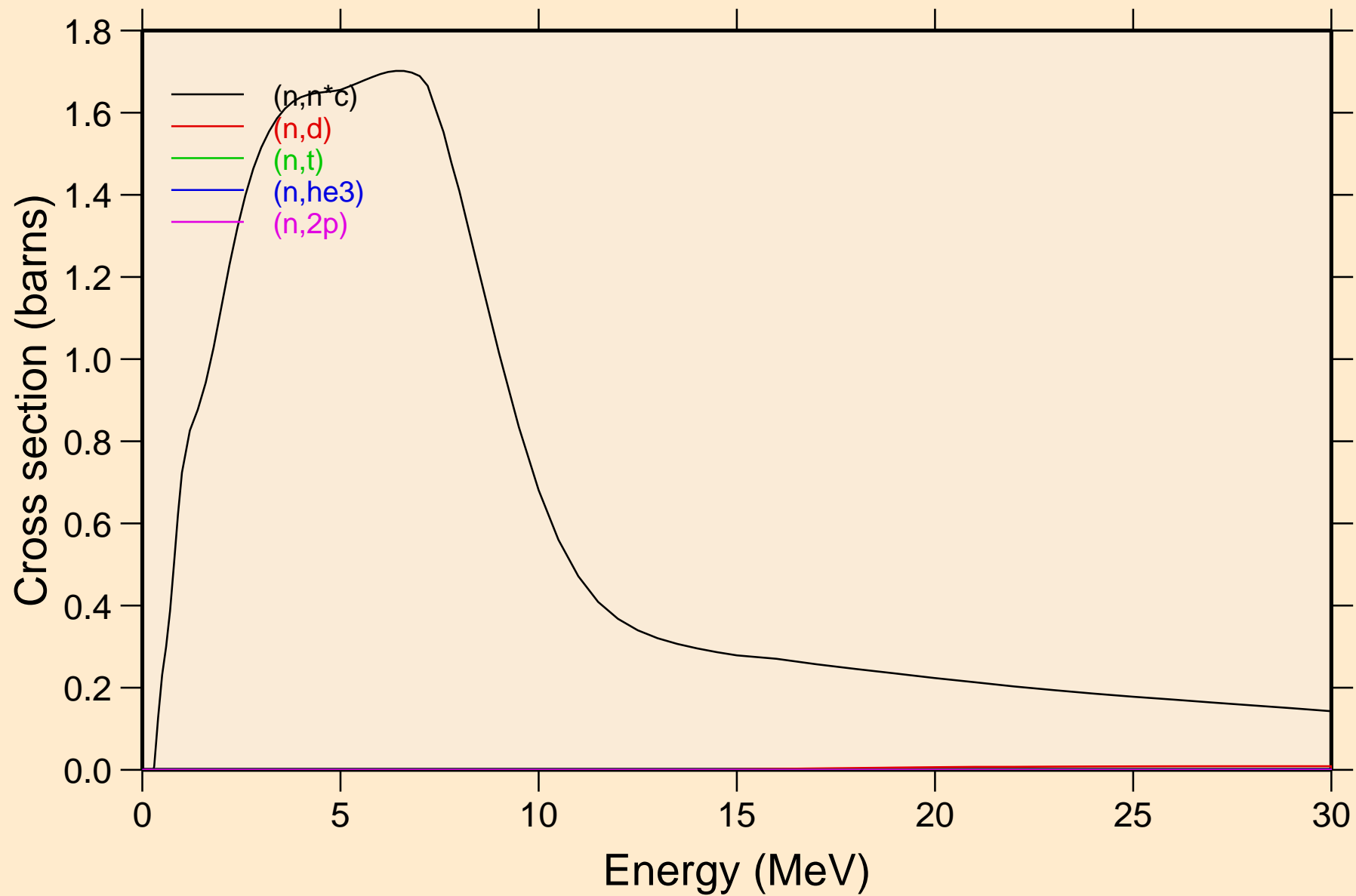
## Threshold reactions





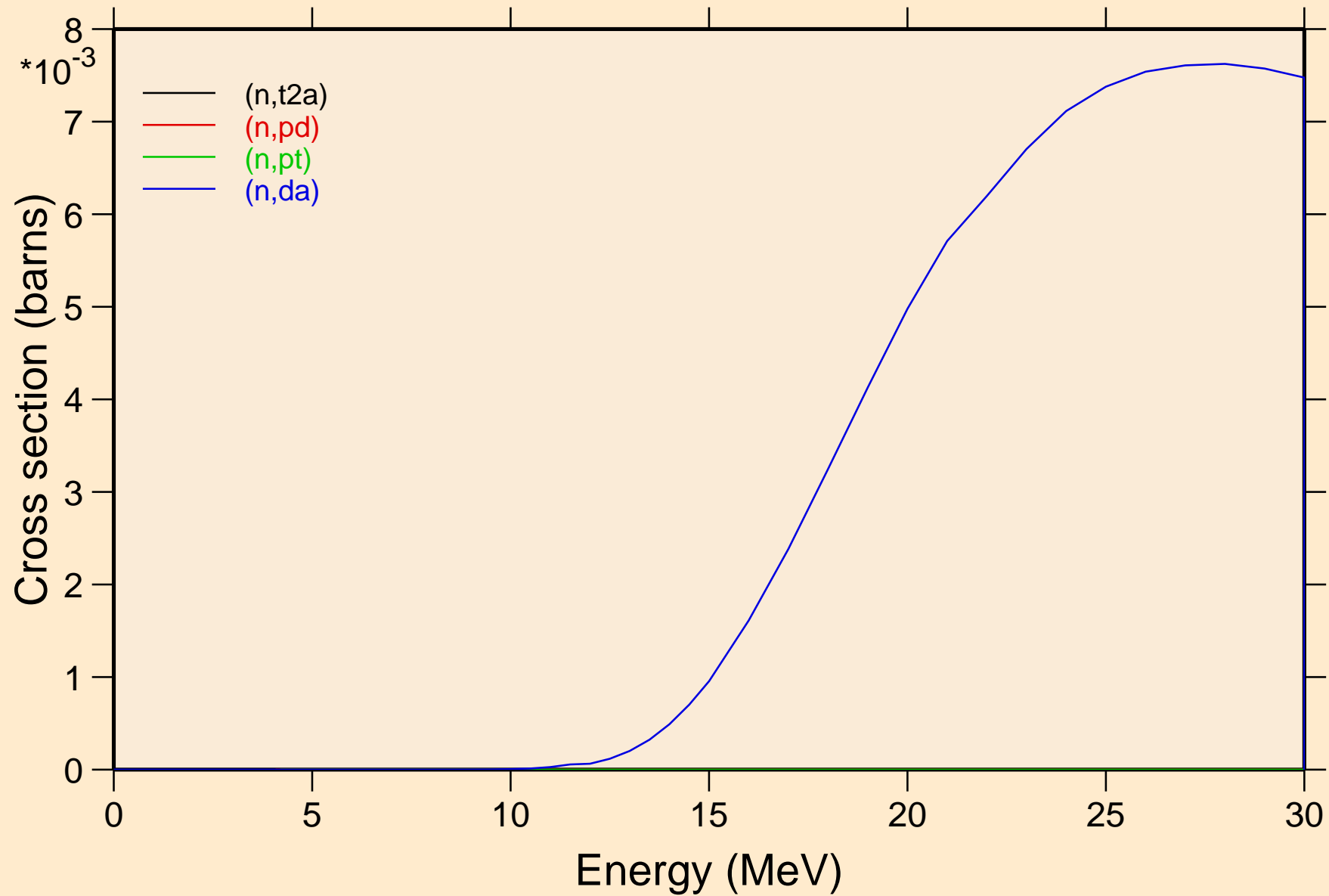
# ES244 NRG TENDL-2015, AKONING

## Threshold reactions

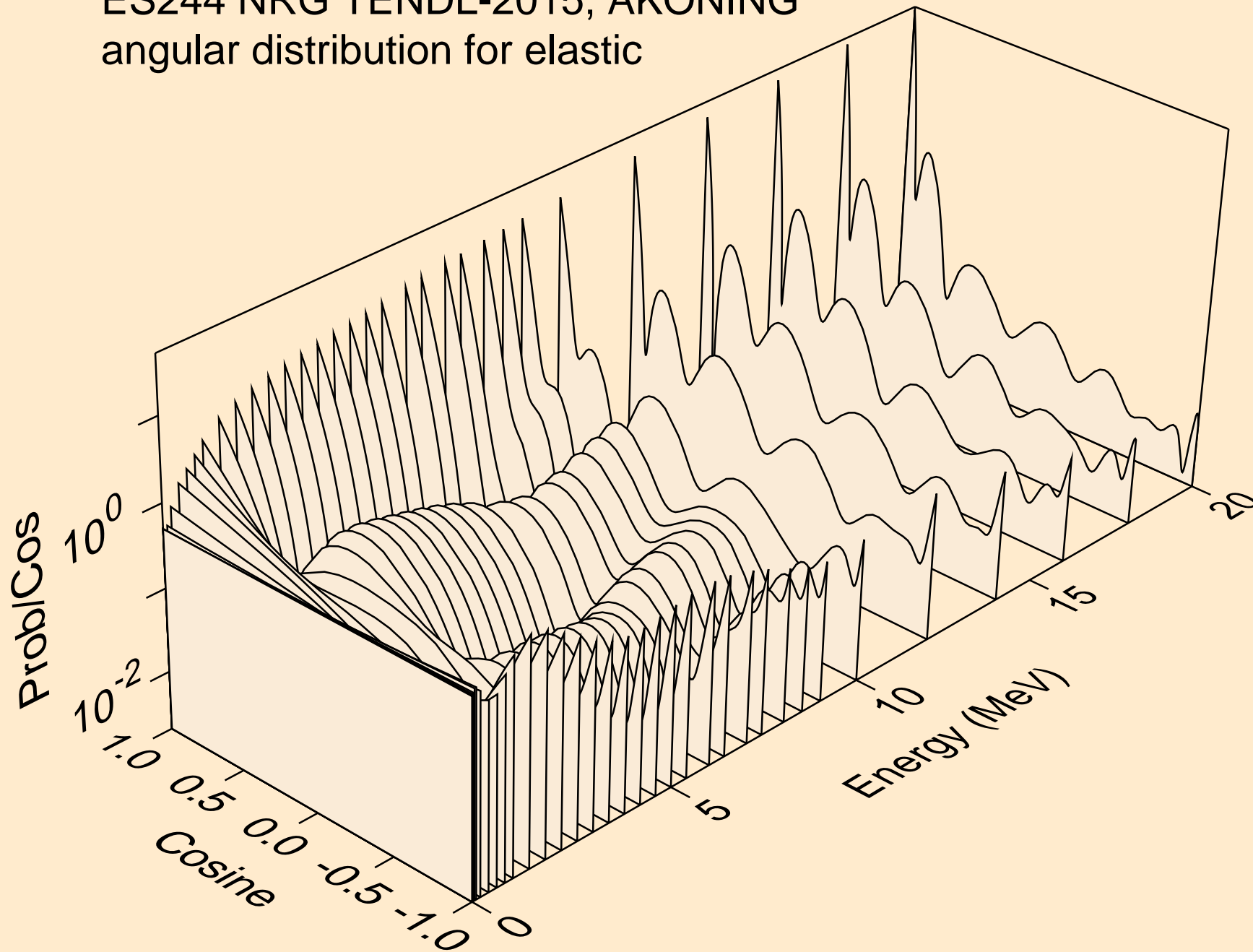


# ES244 NRG TENDL-2015, AKONING

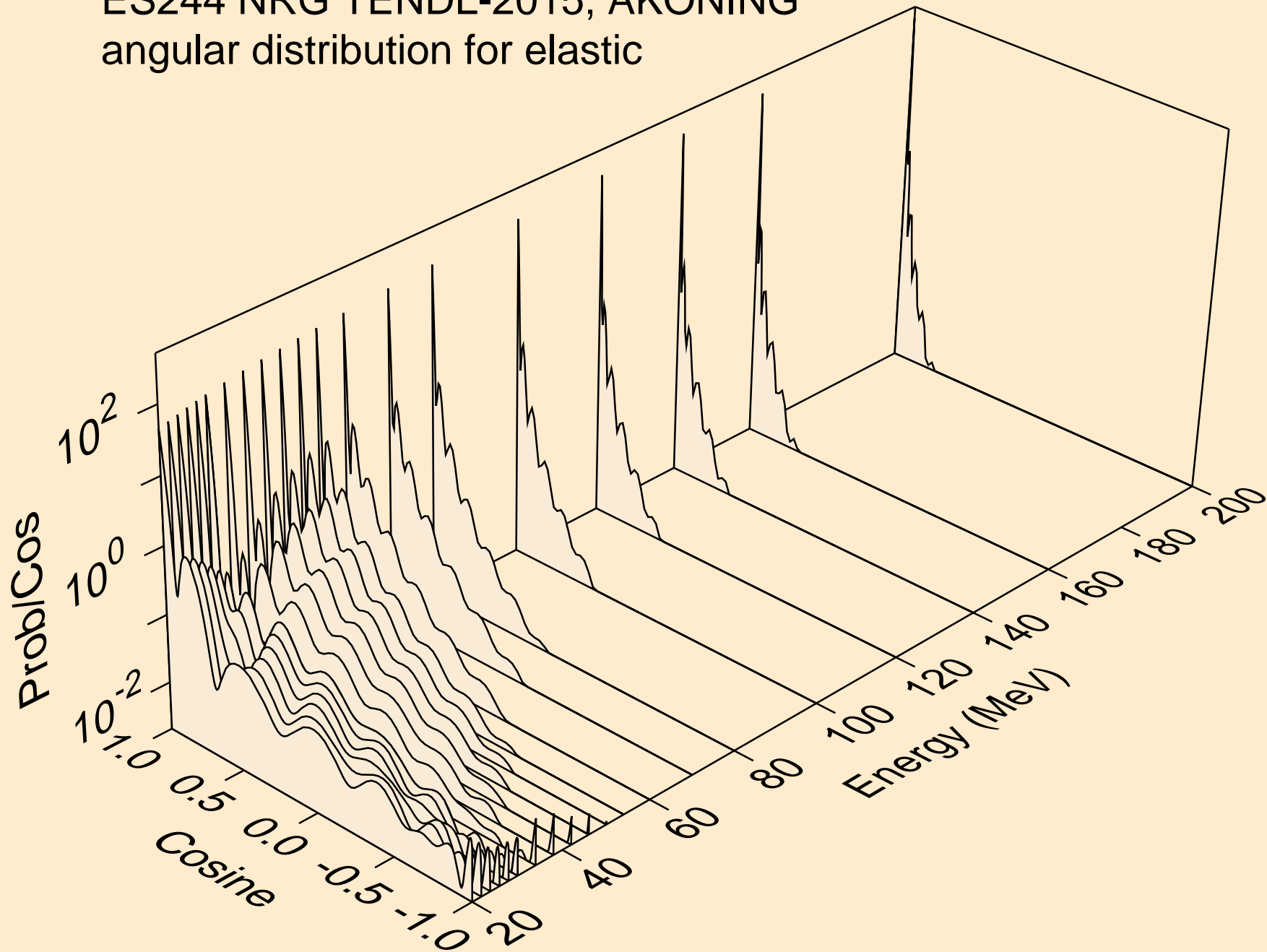
## Threshold reactions



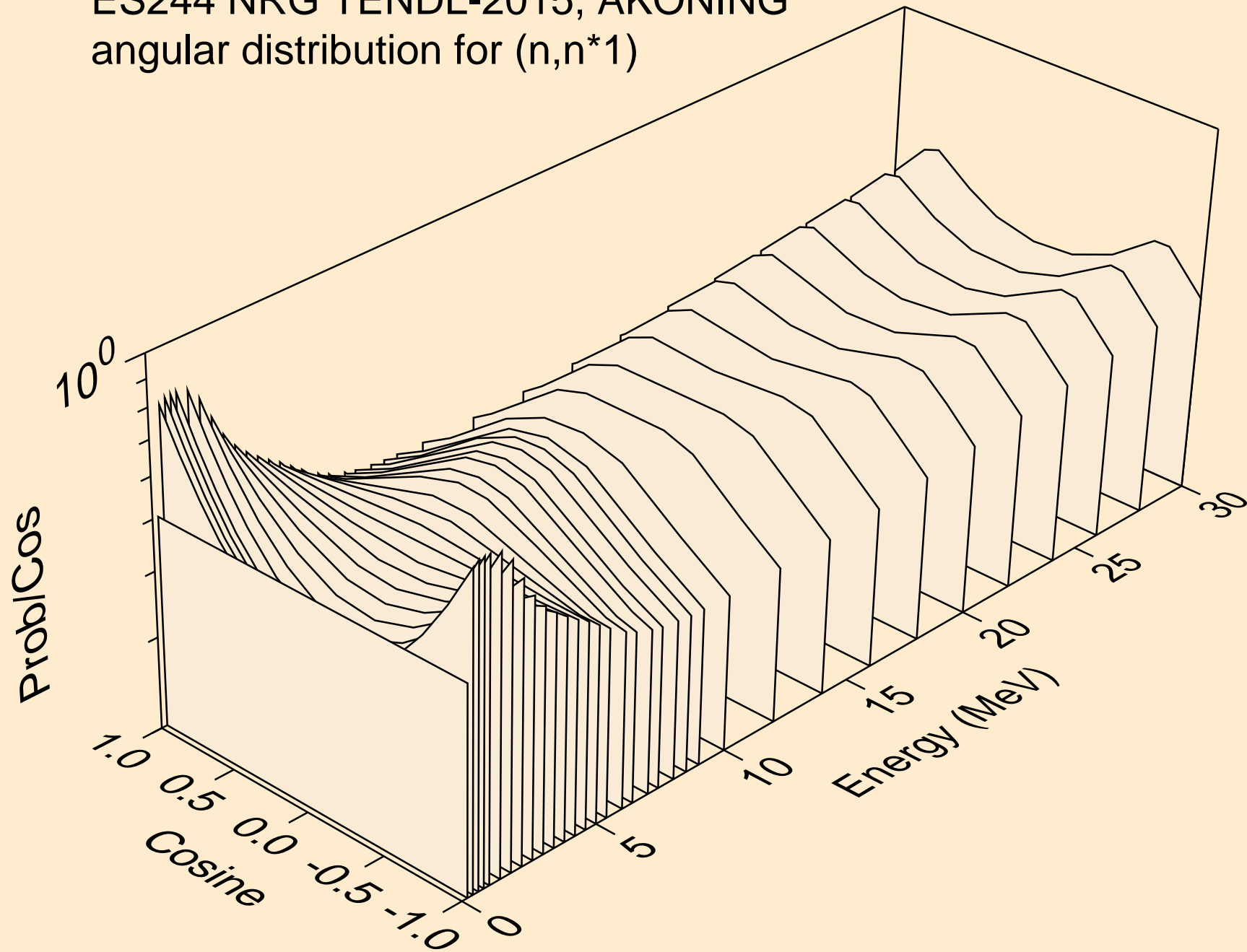
ES244 NRG TENDL-2015, AKONING  
angular distribution for elastic



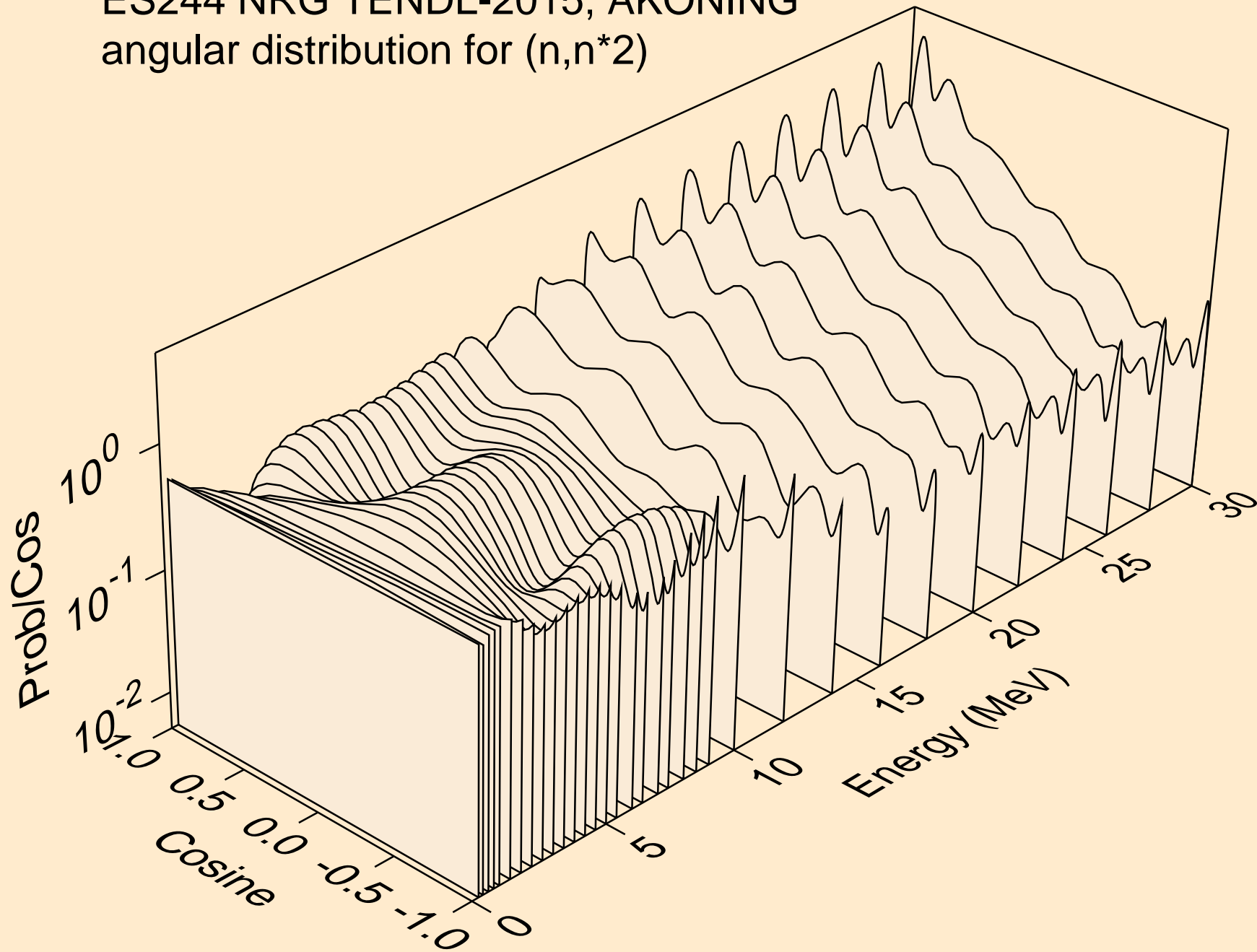
ES244 NRG TENDL-2015, AKONING  
angular distribution for elastic



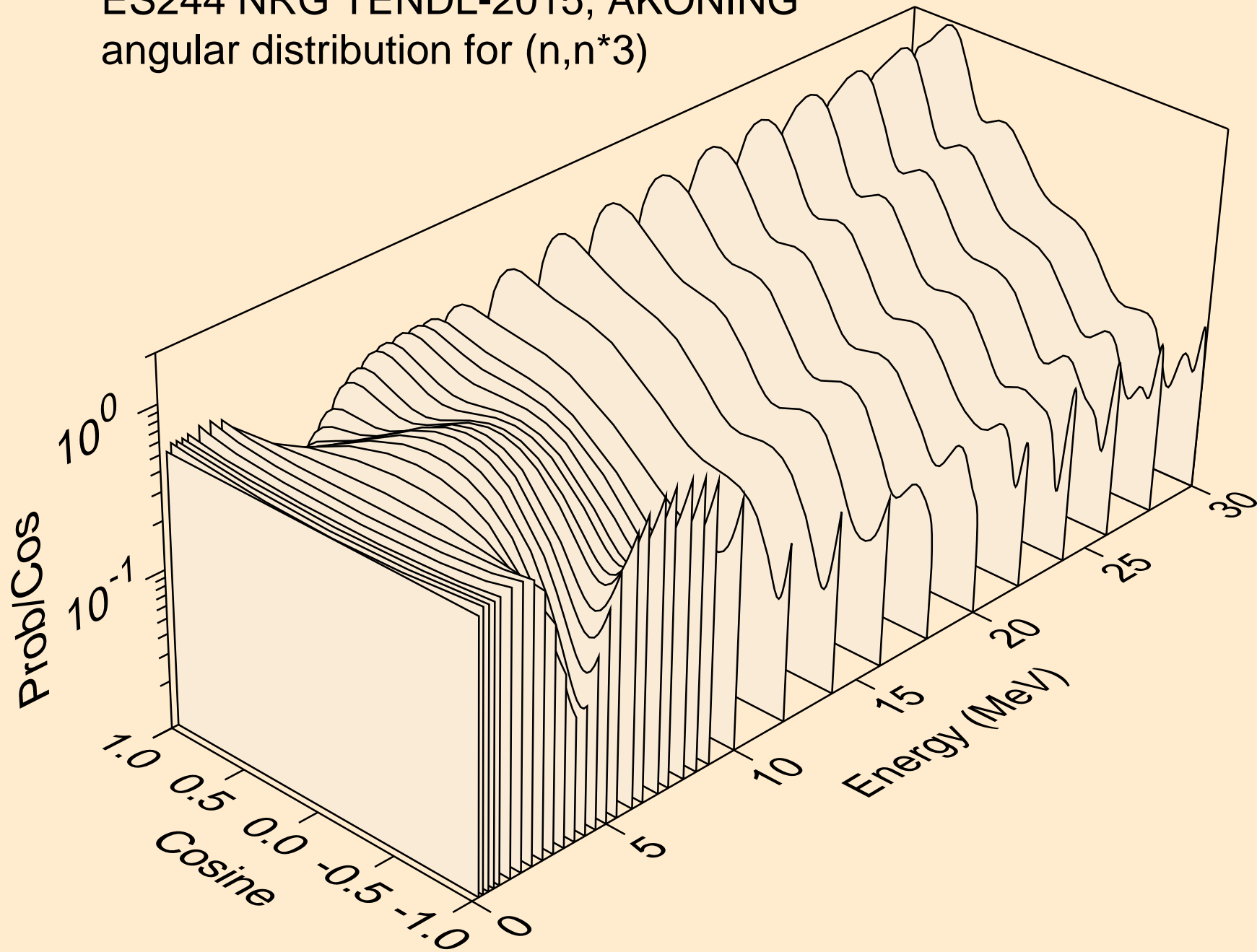
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*1)



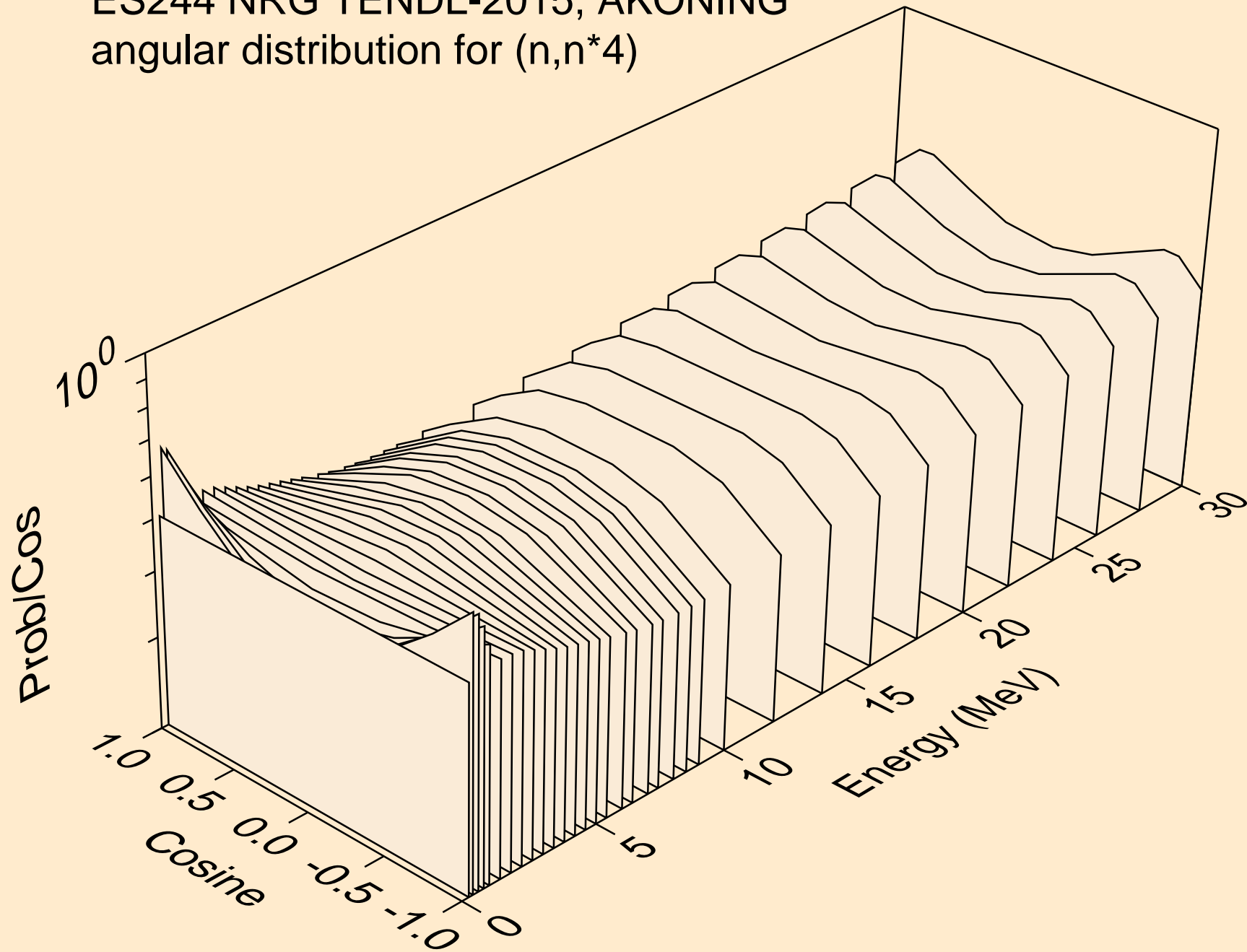
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*2)



ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*3)

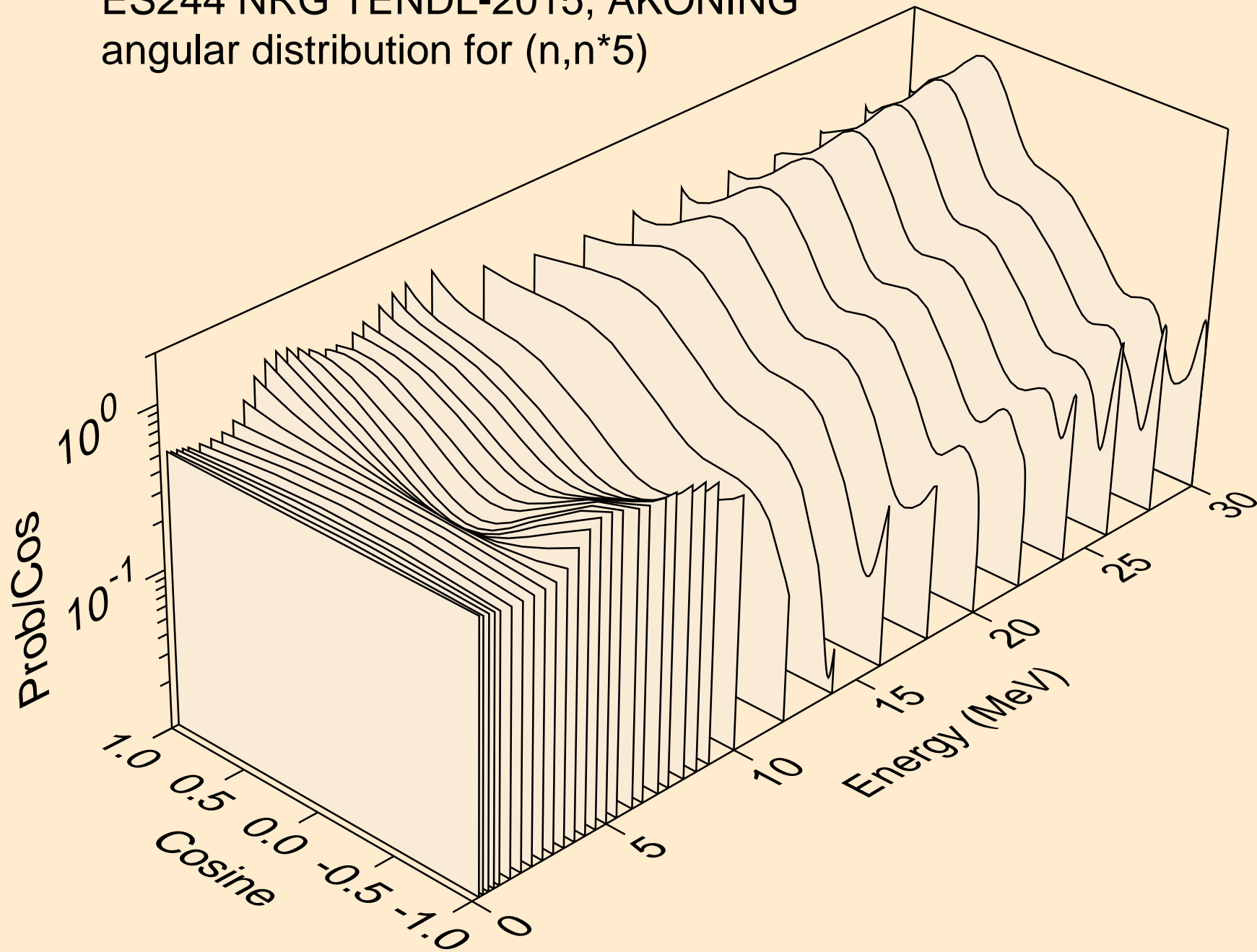


ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*4)

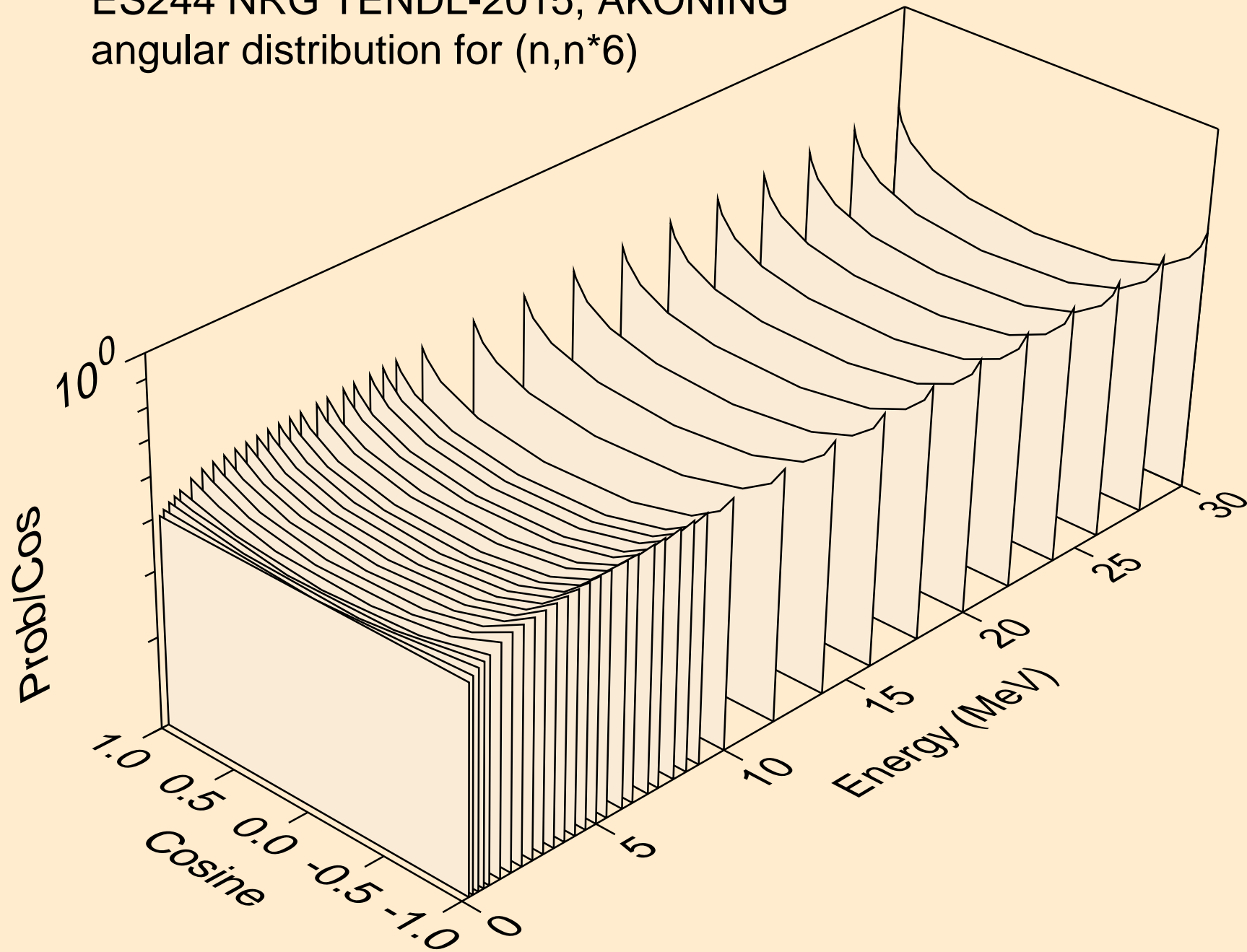




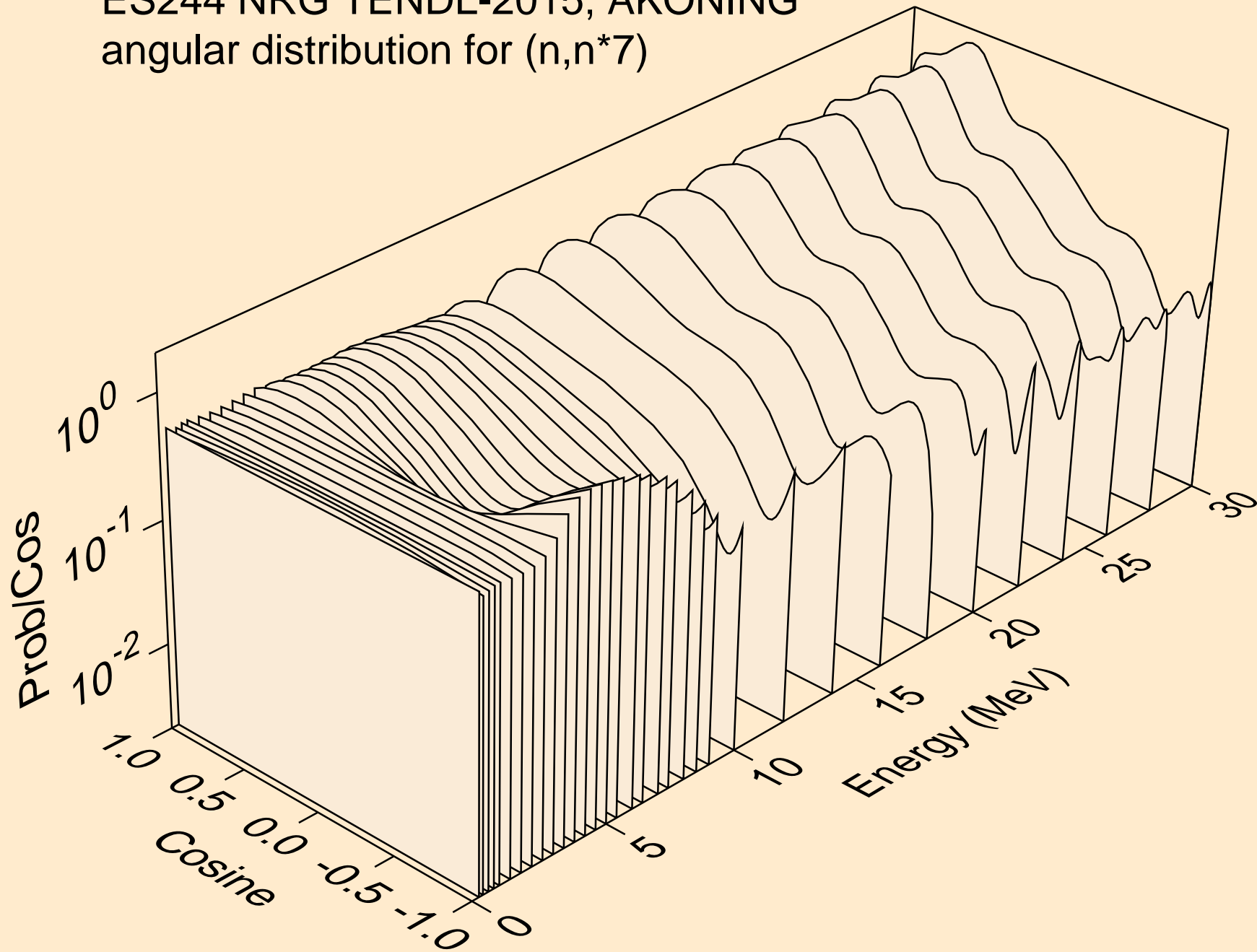
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*5)



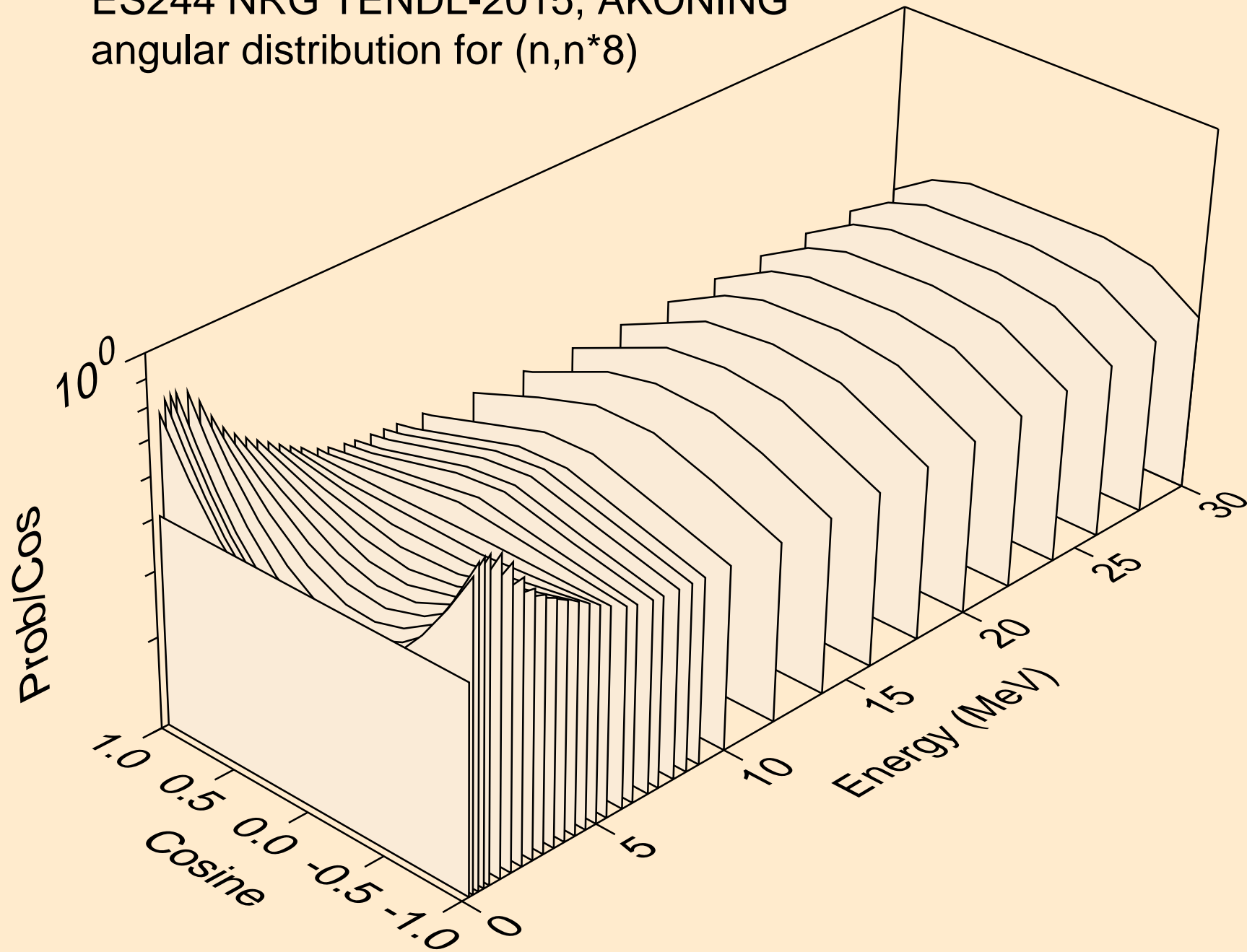
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*6)



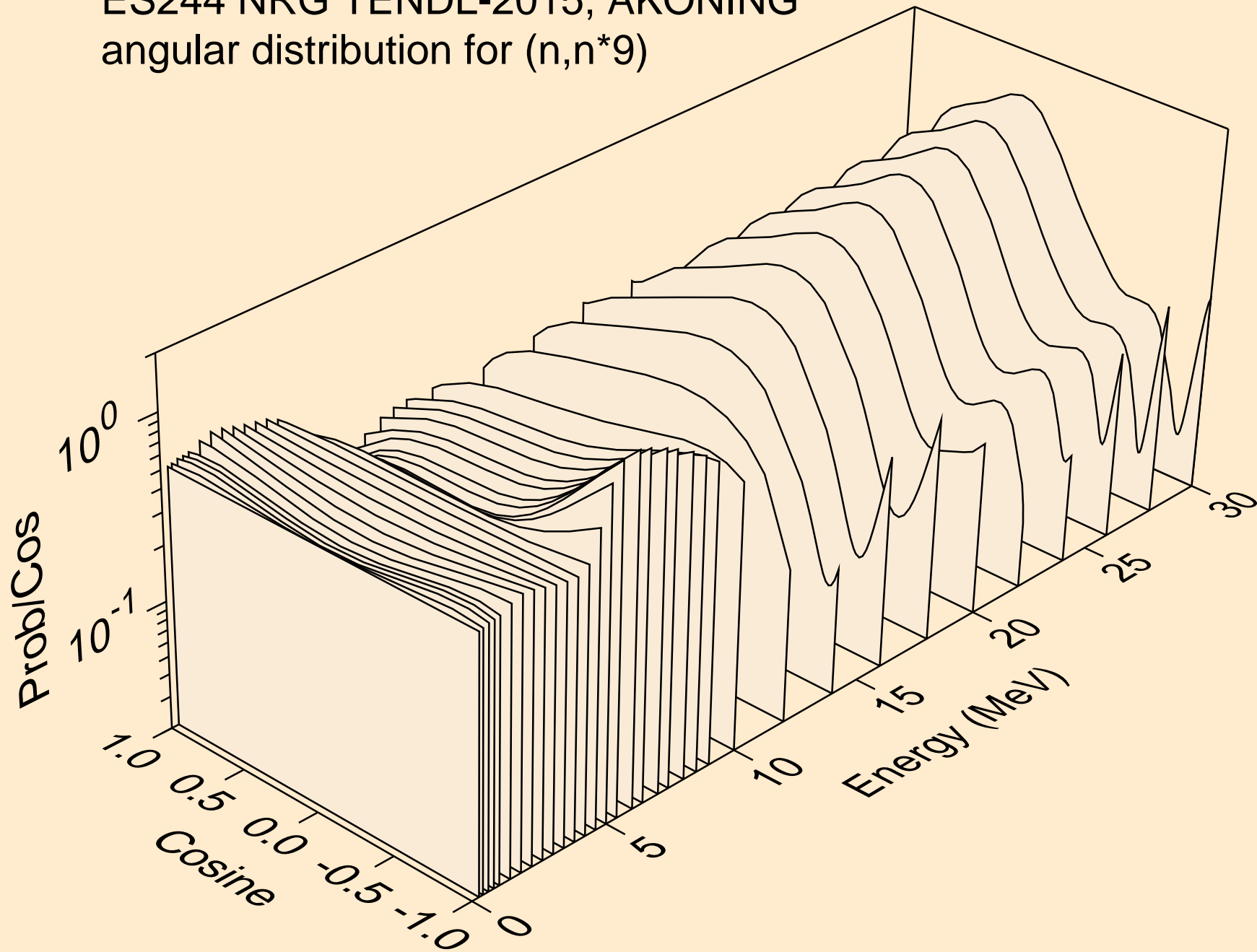
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*7)



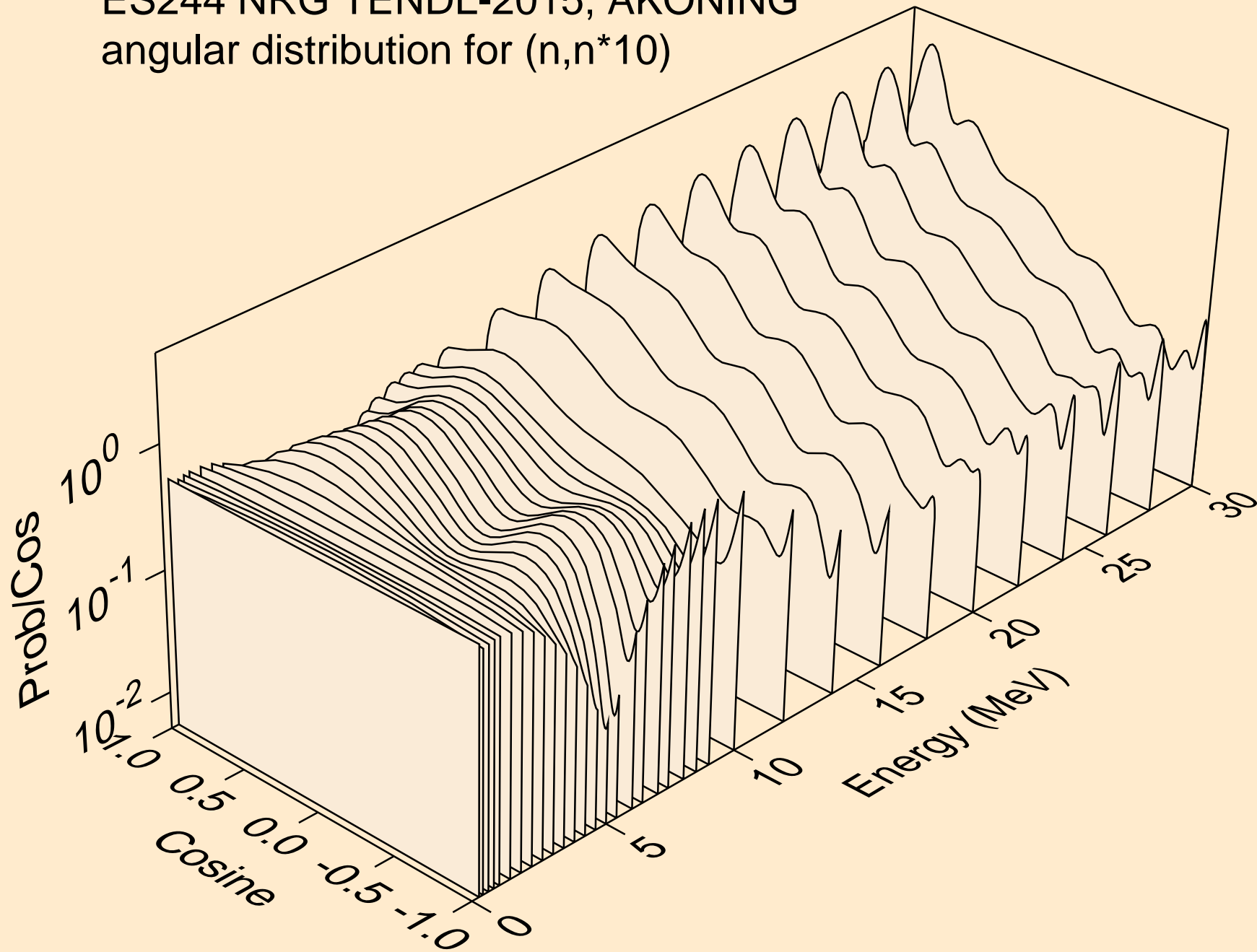
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*8)



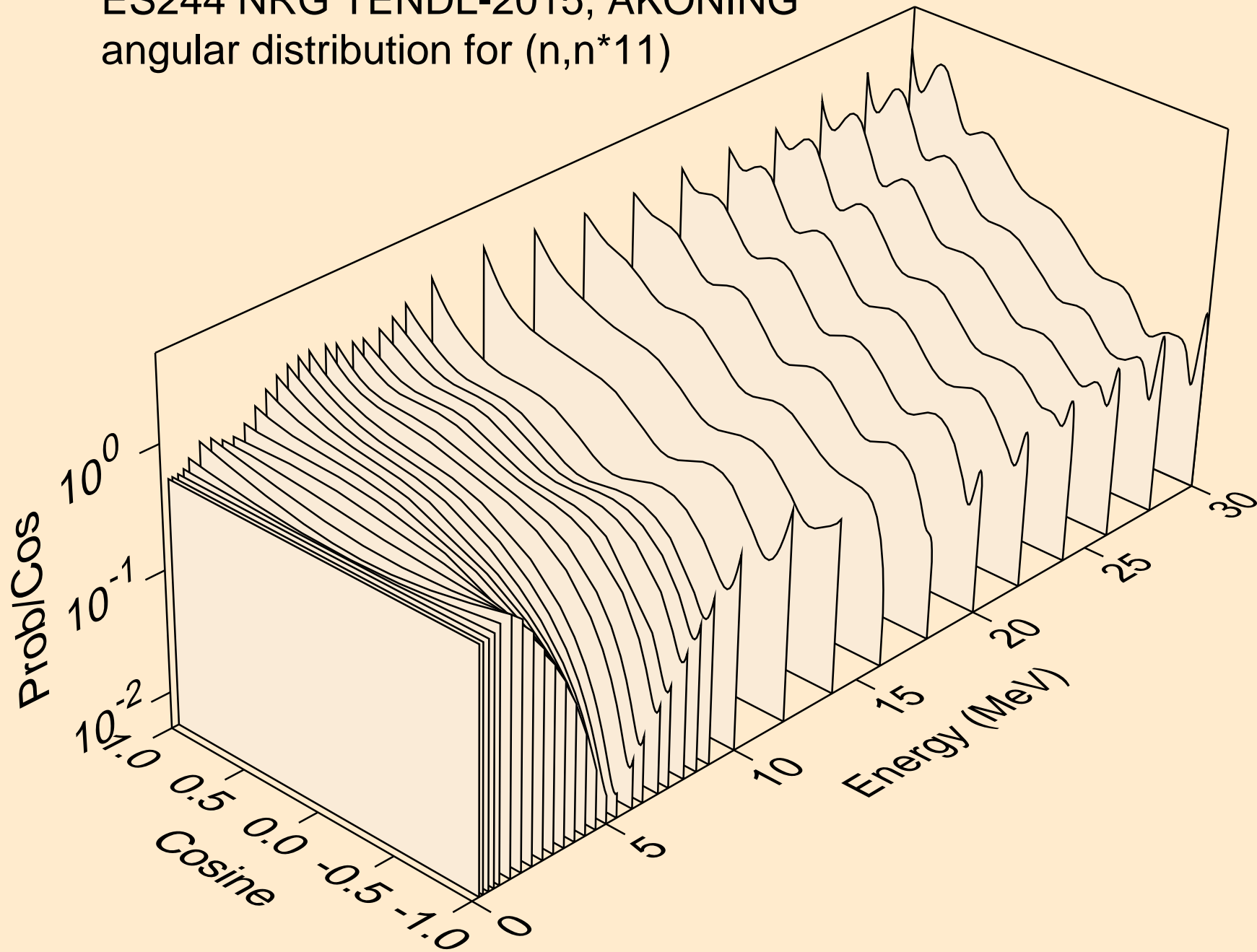
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*9)



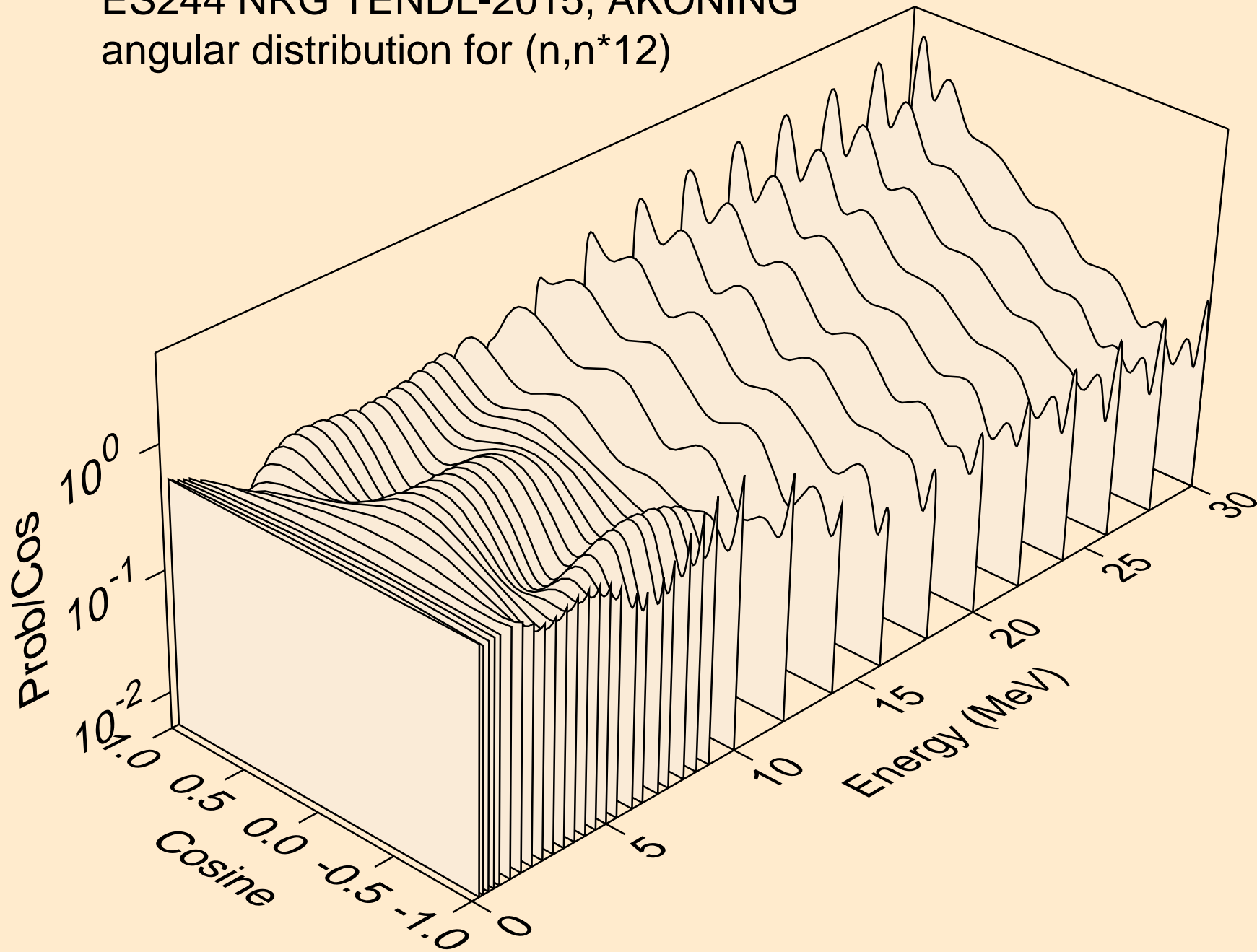
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*10)



ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*11)

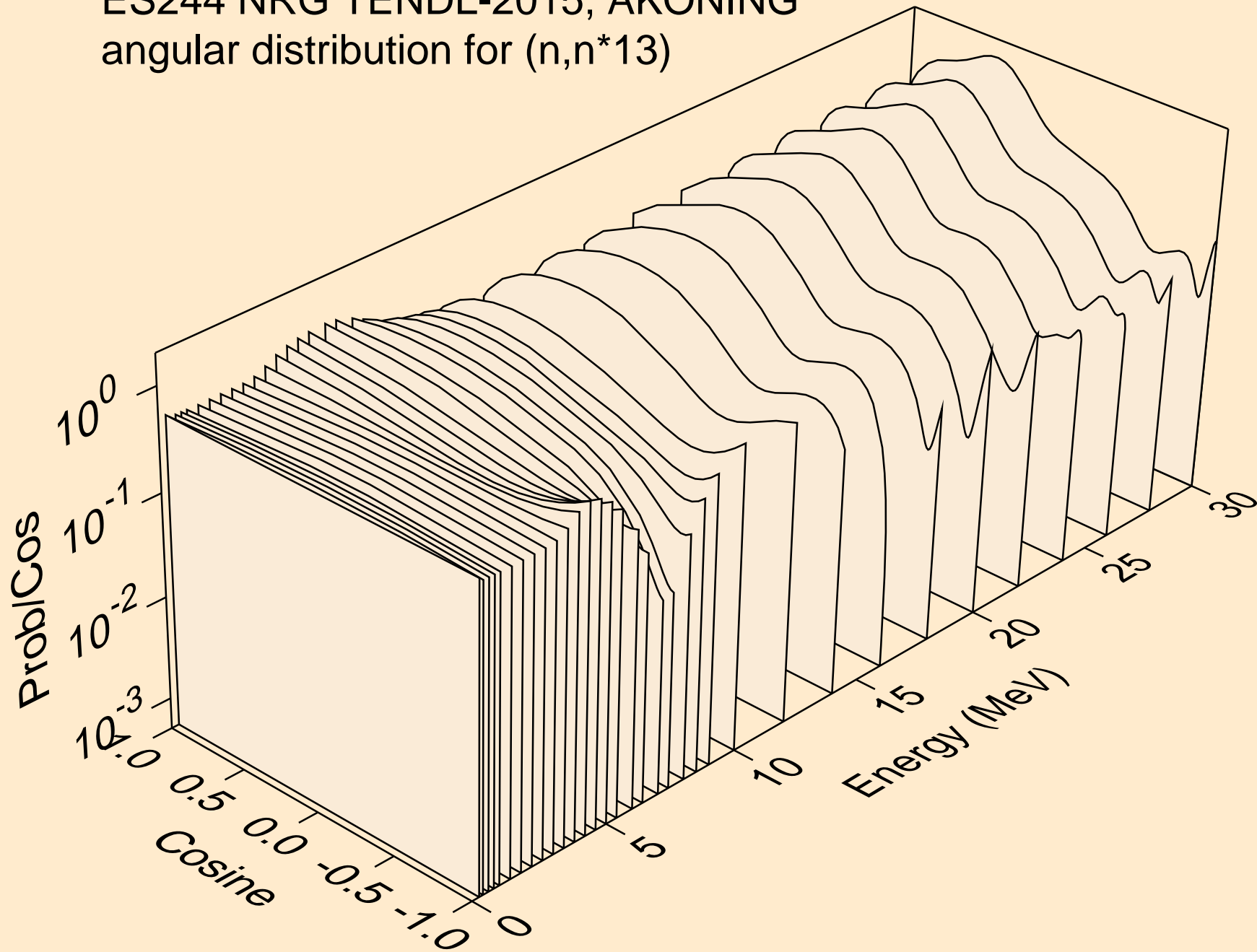


ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*12)

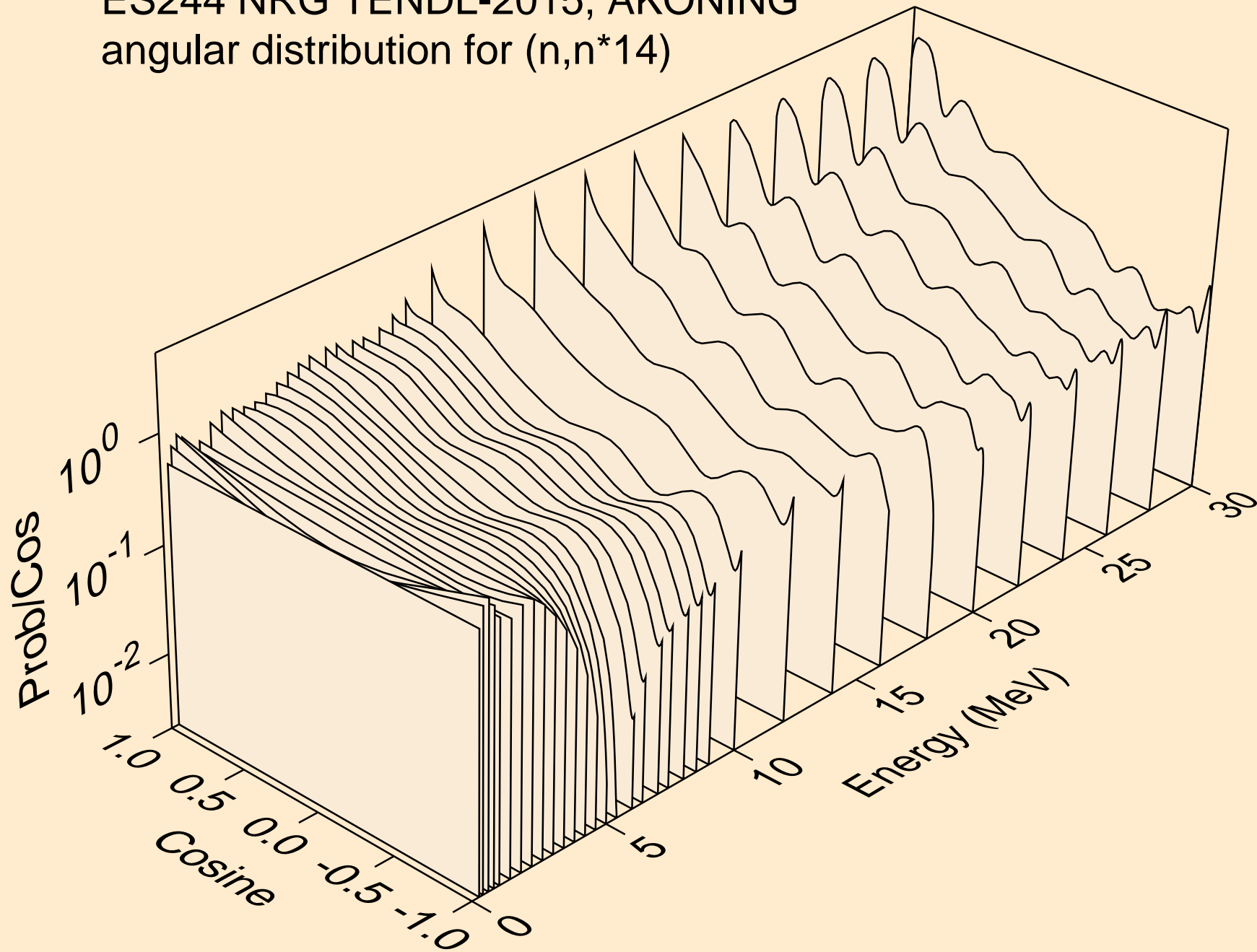




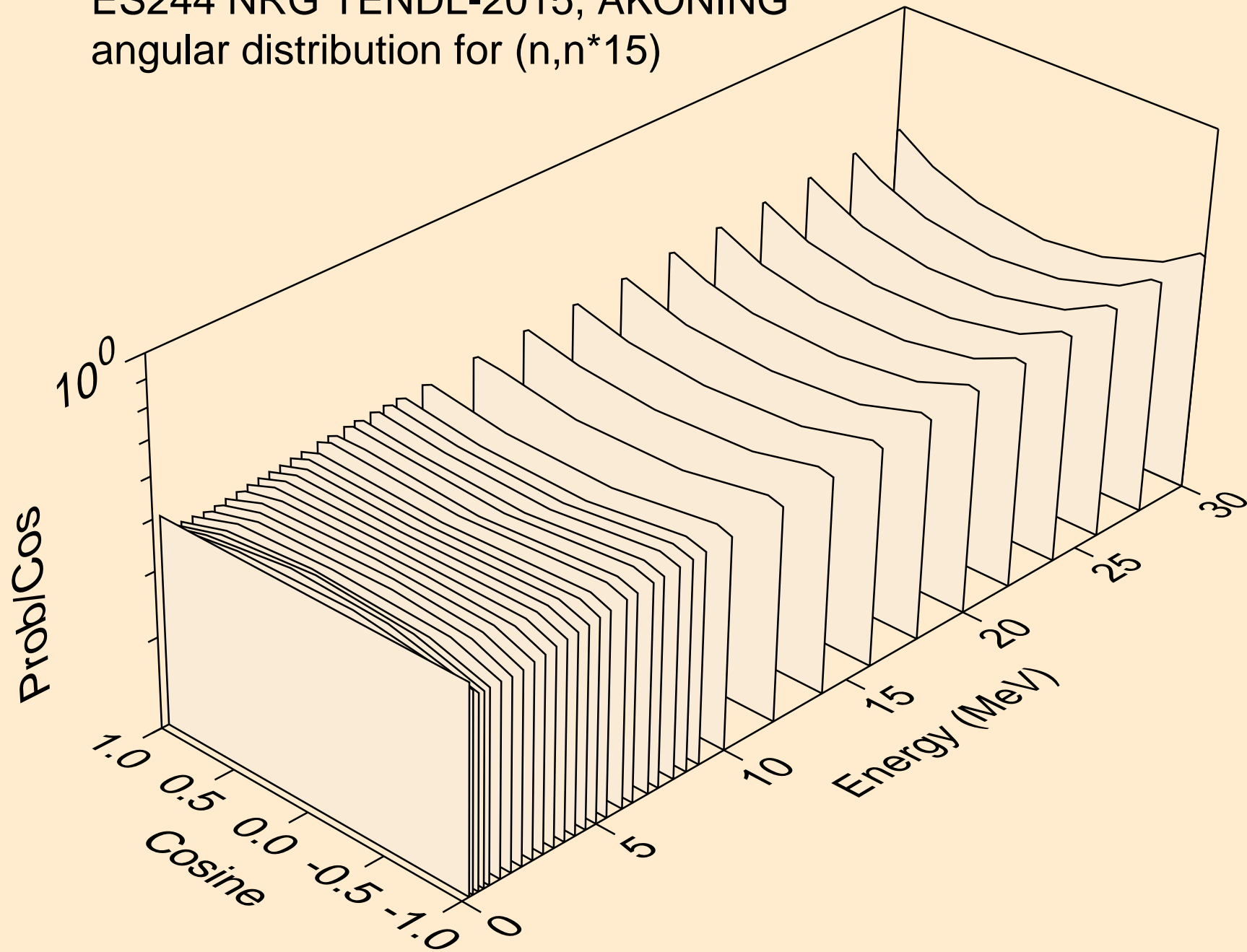
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*13)



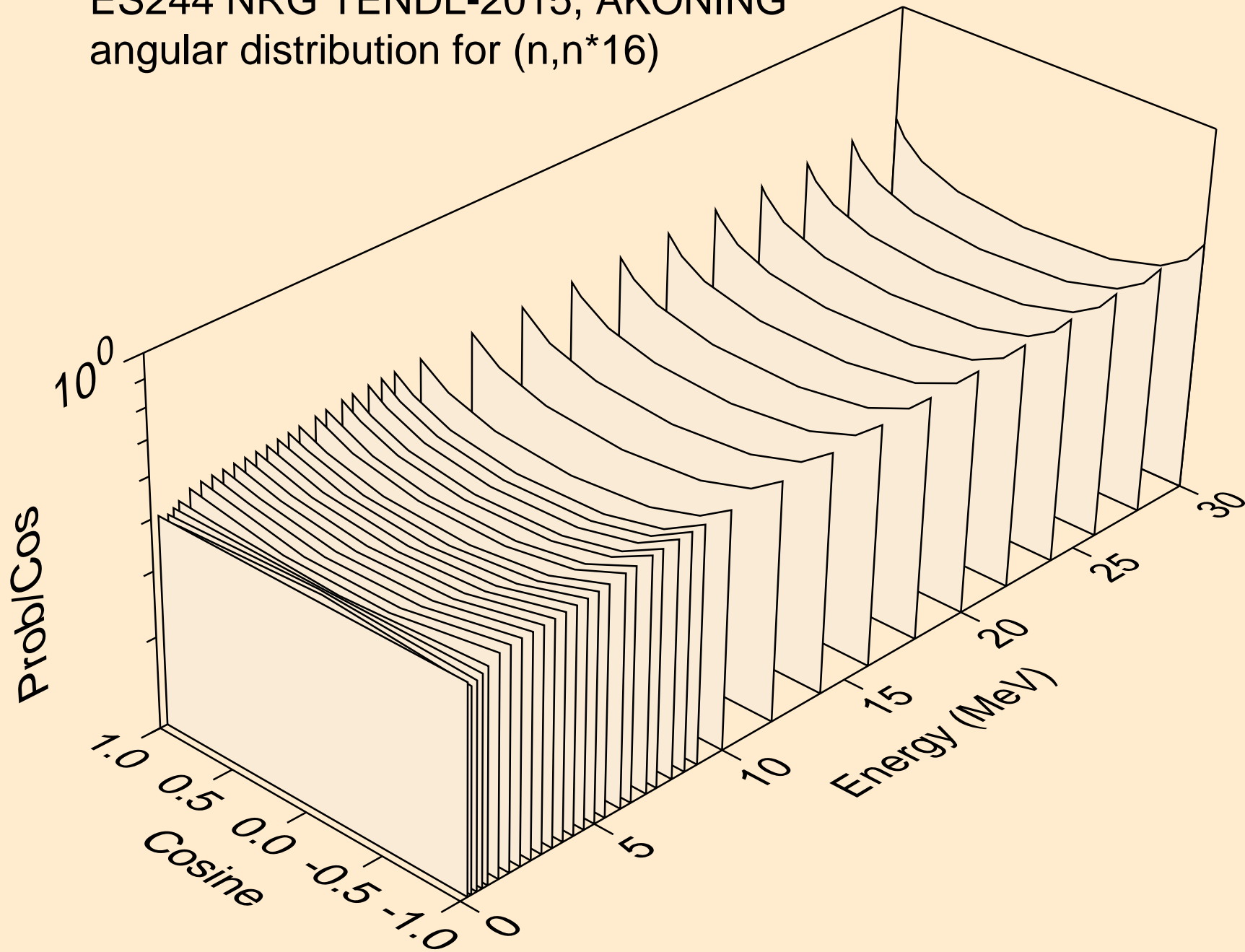
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*14)



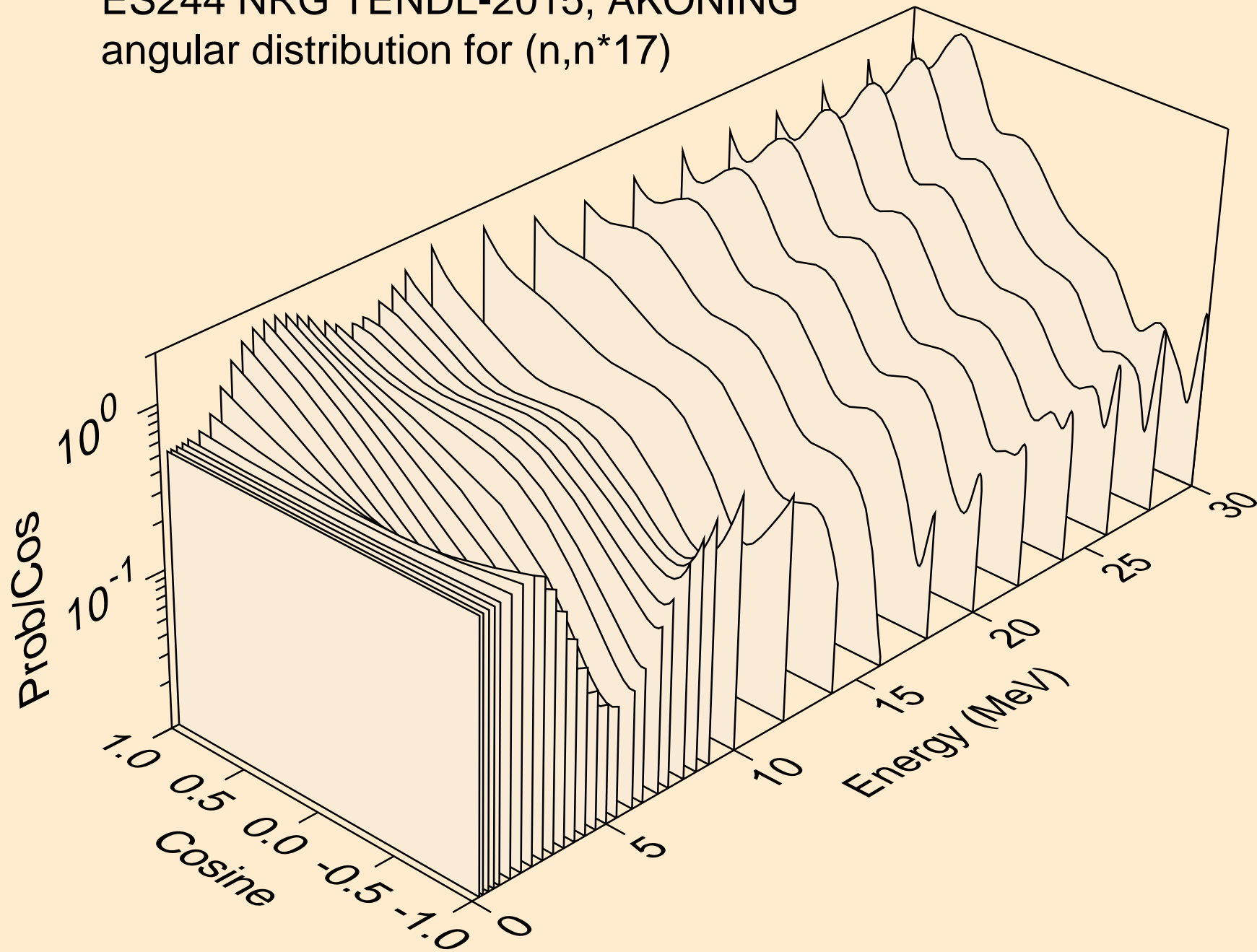
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*15)



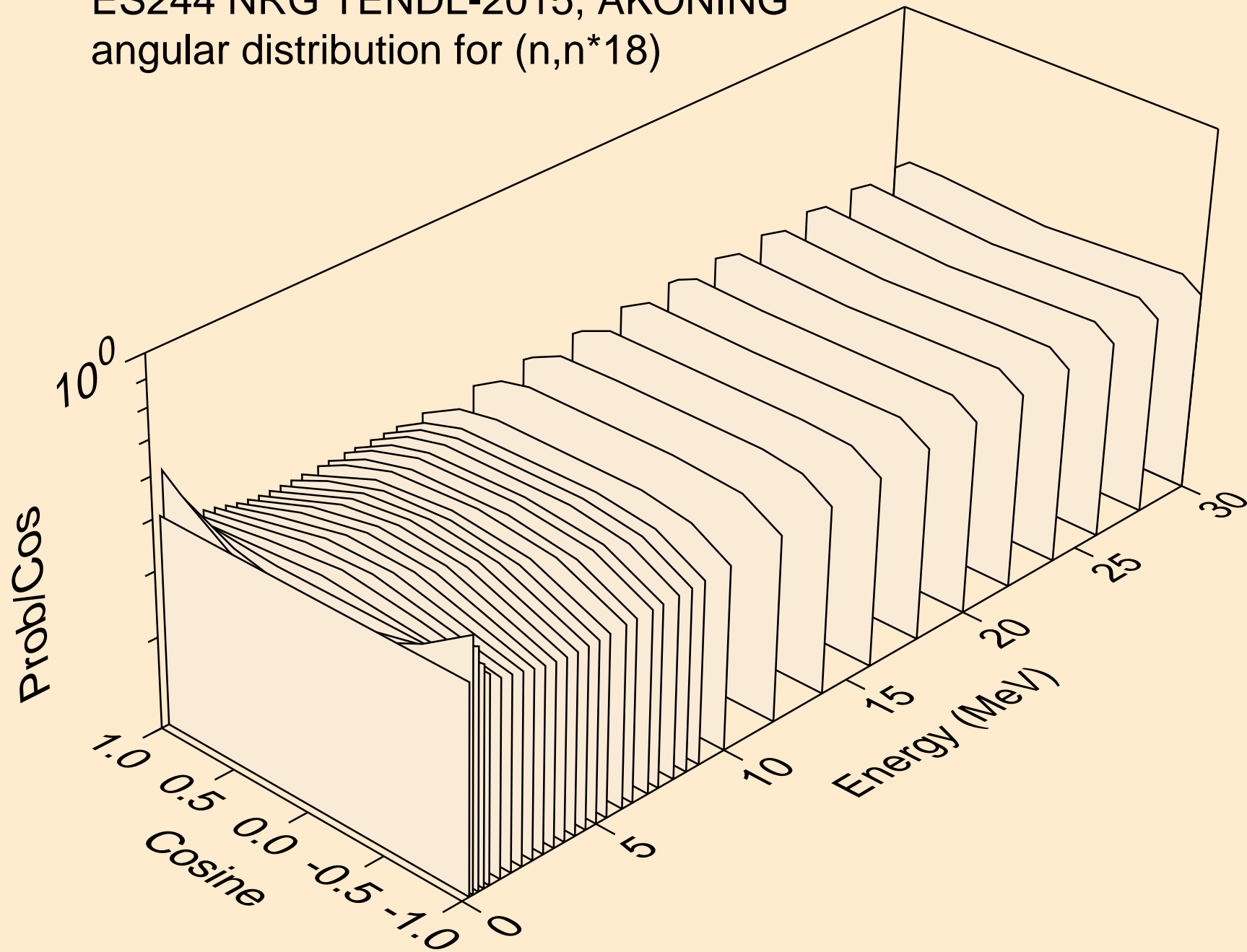
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*16)



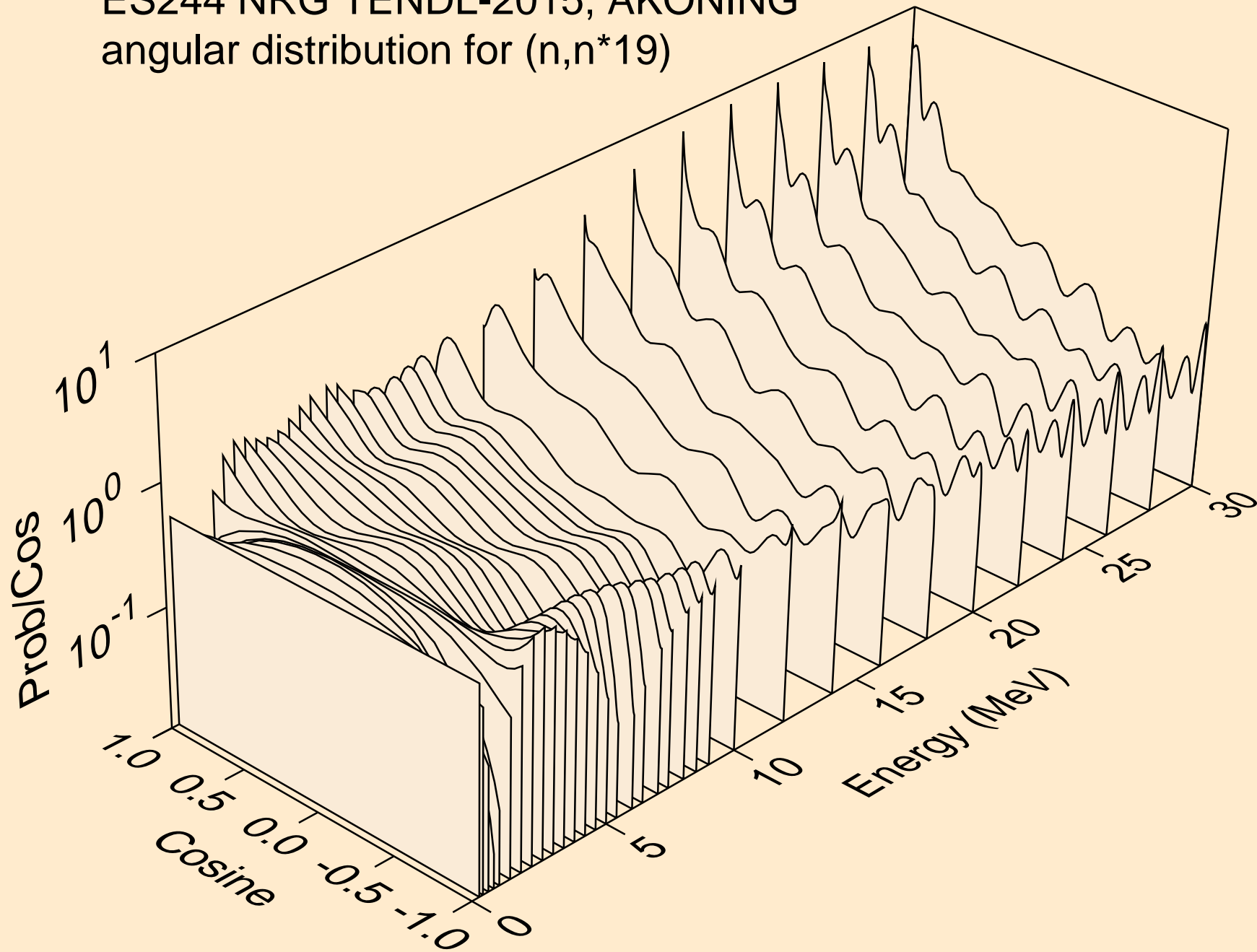
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*17)



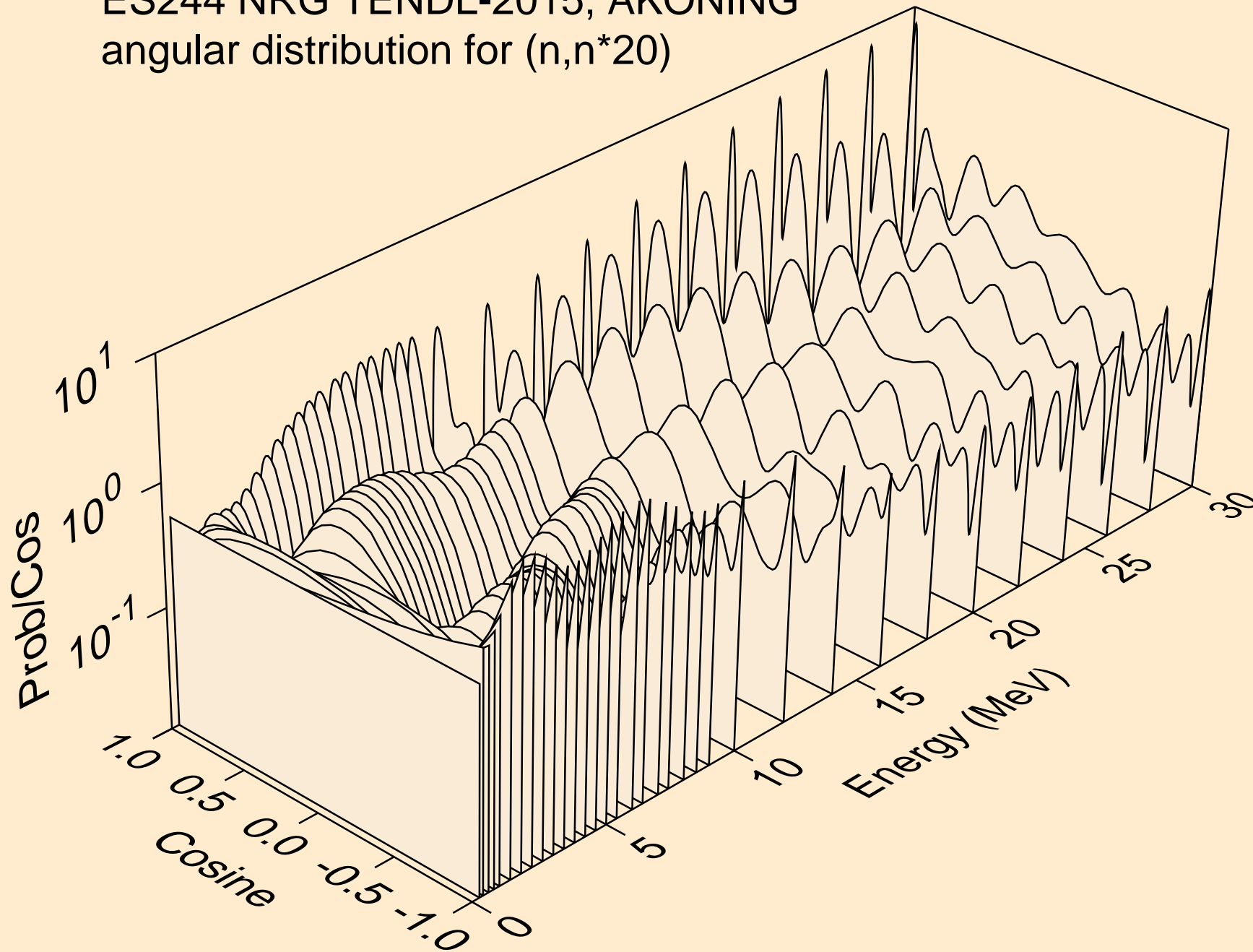
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*18)



ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*19)

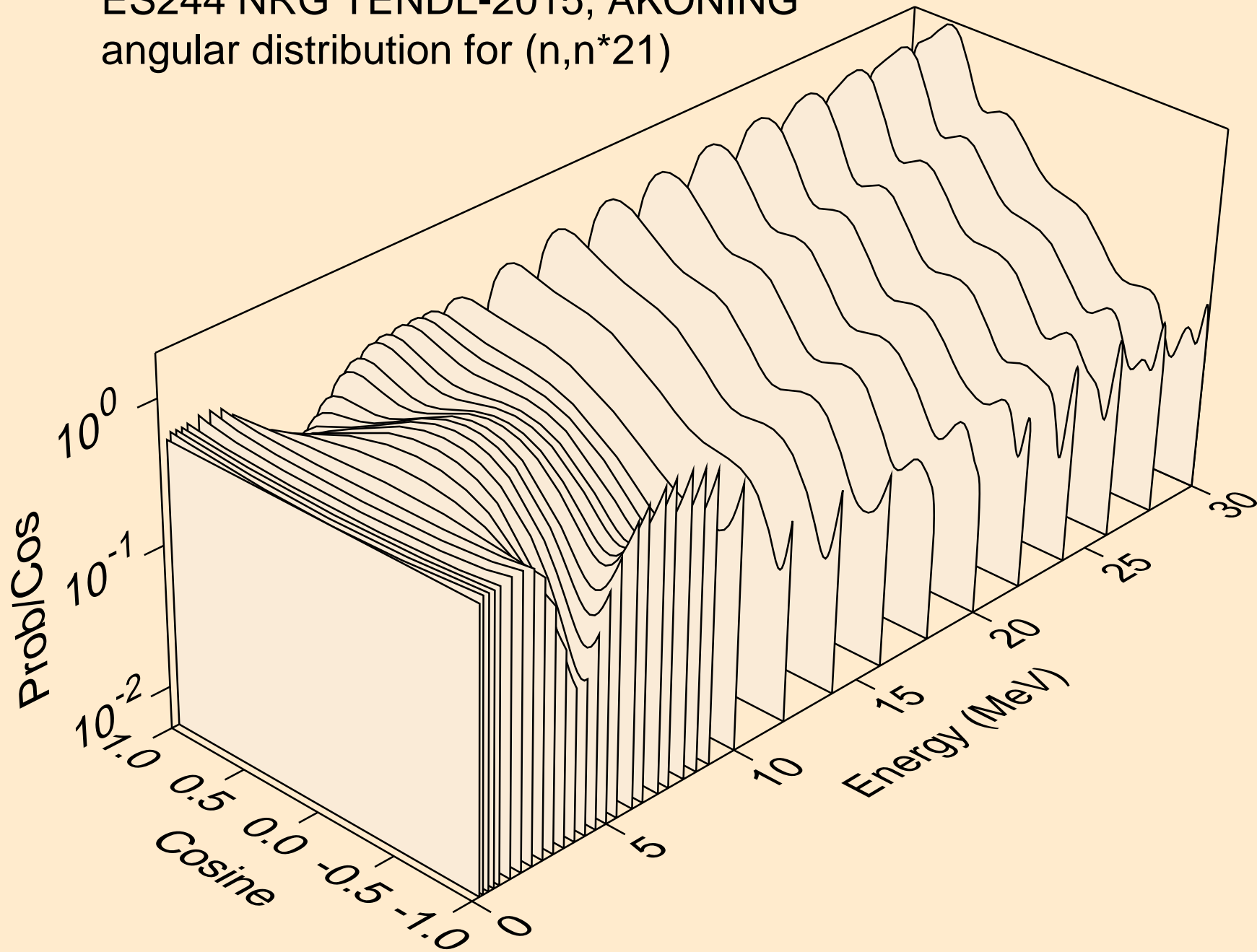


ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*20)

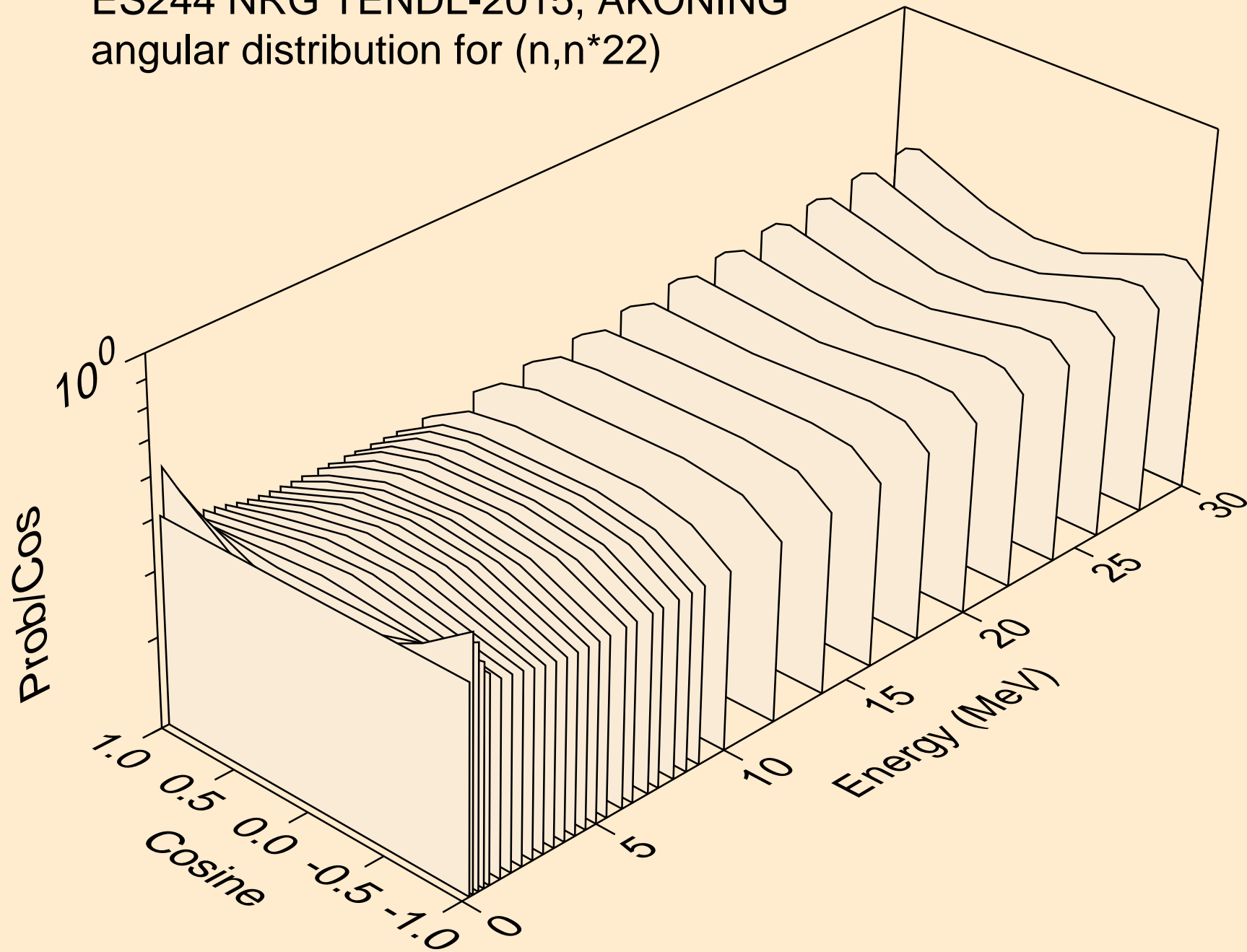




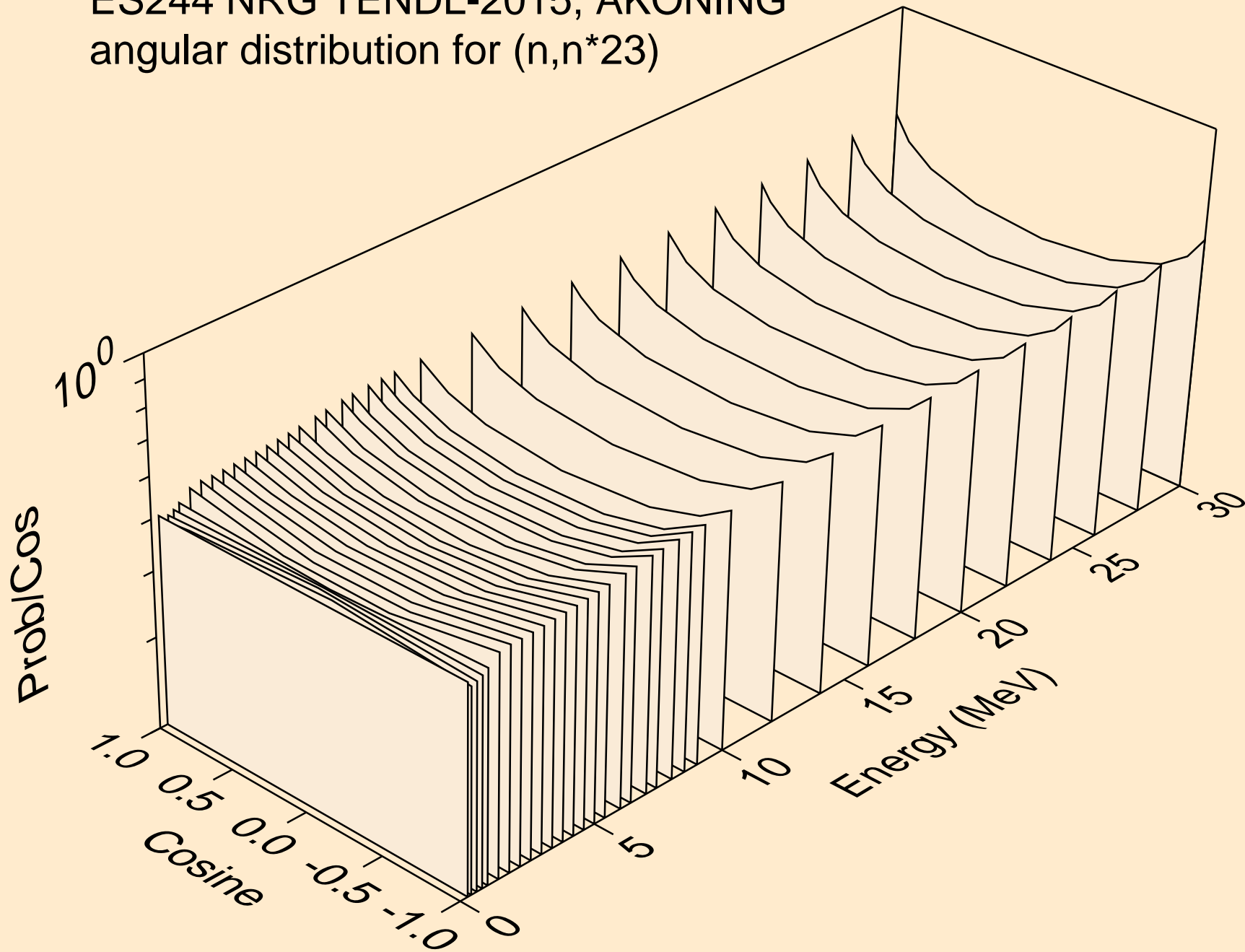
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*21)



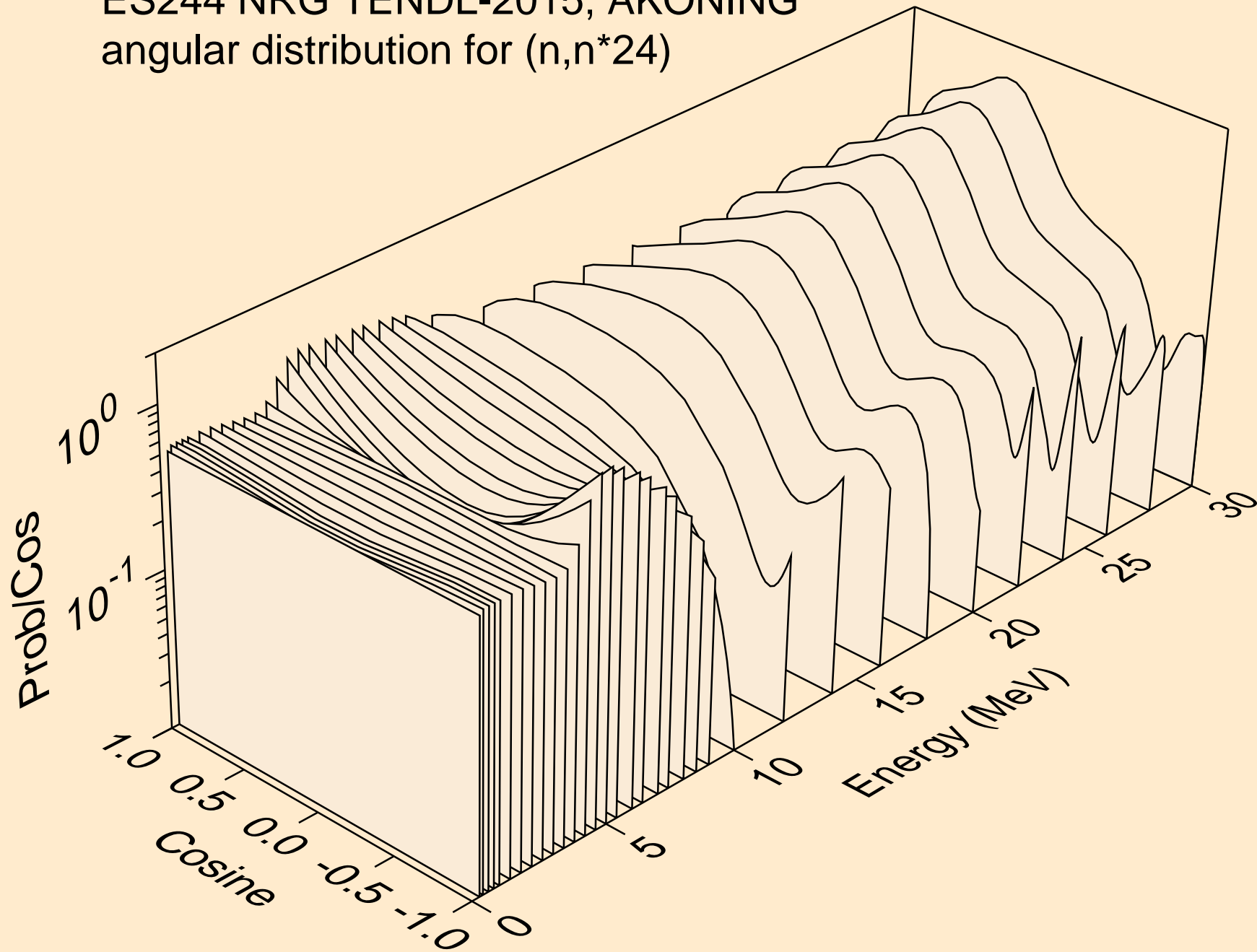
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*22)



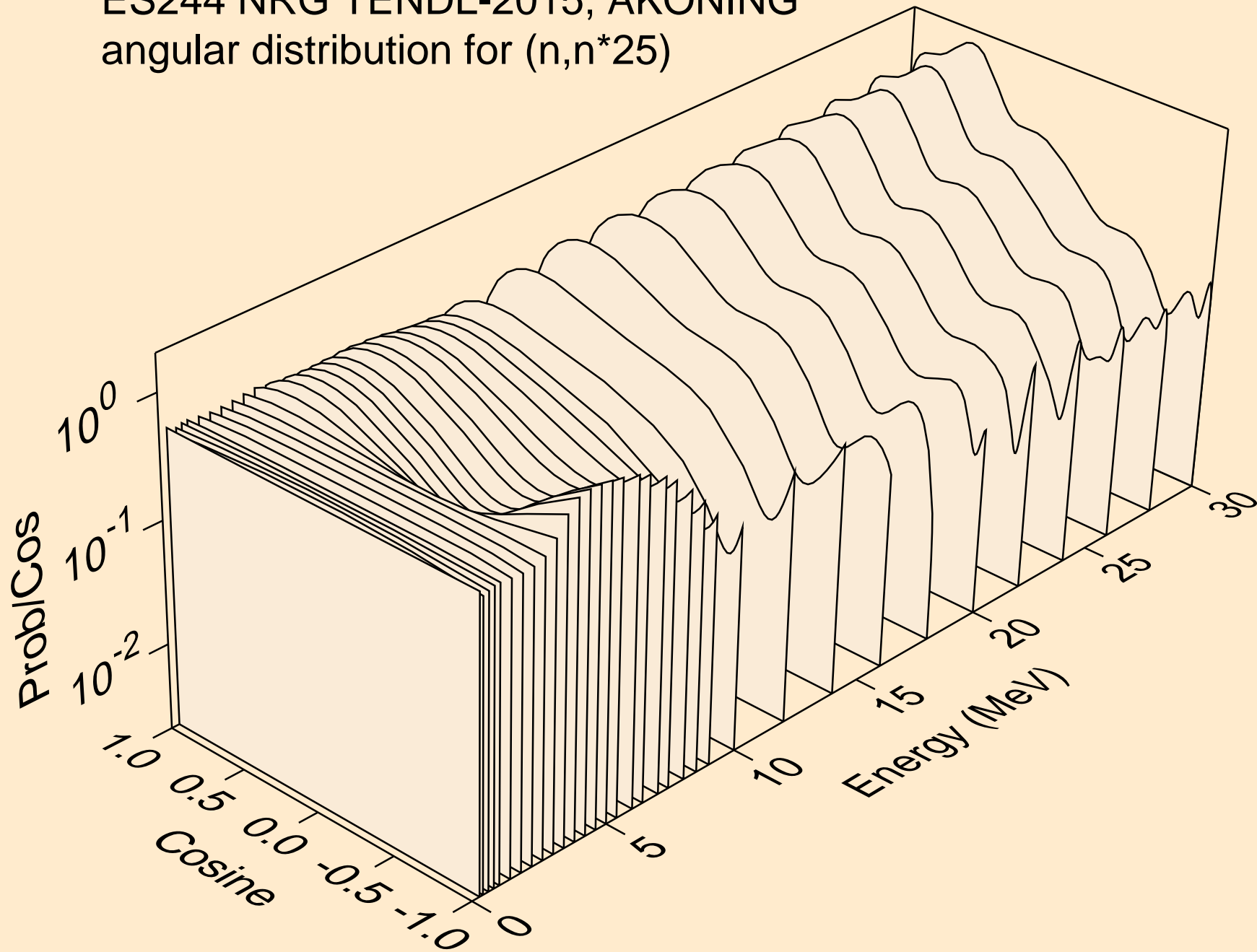
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*23)



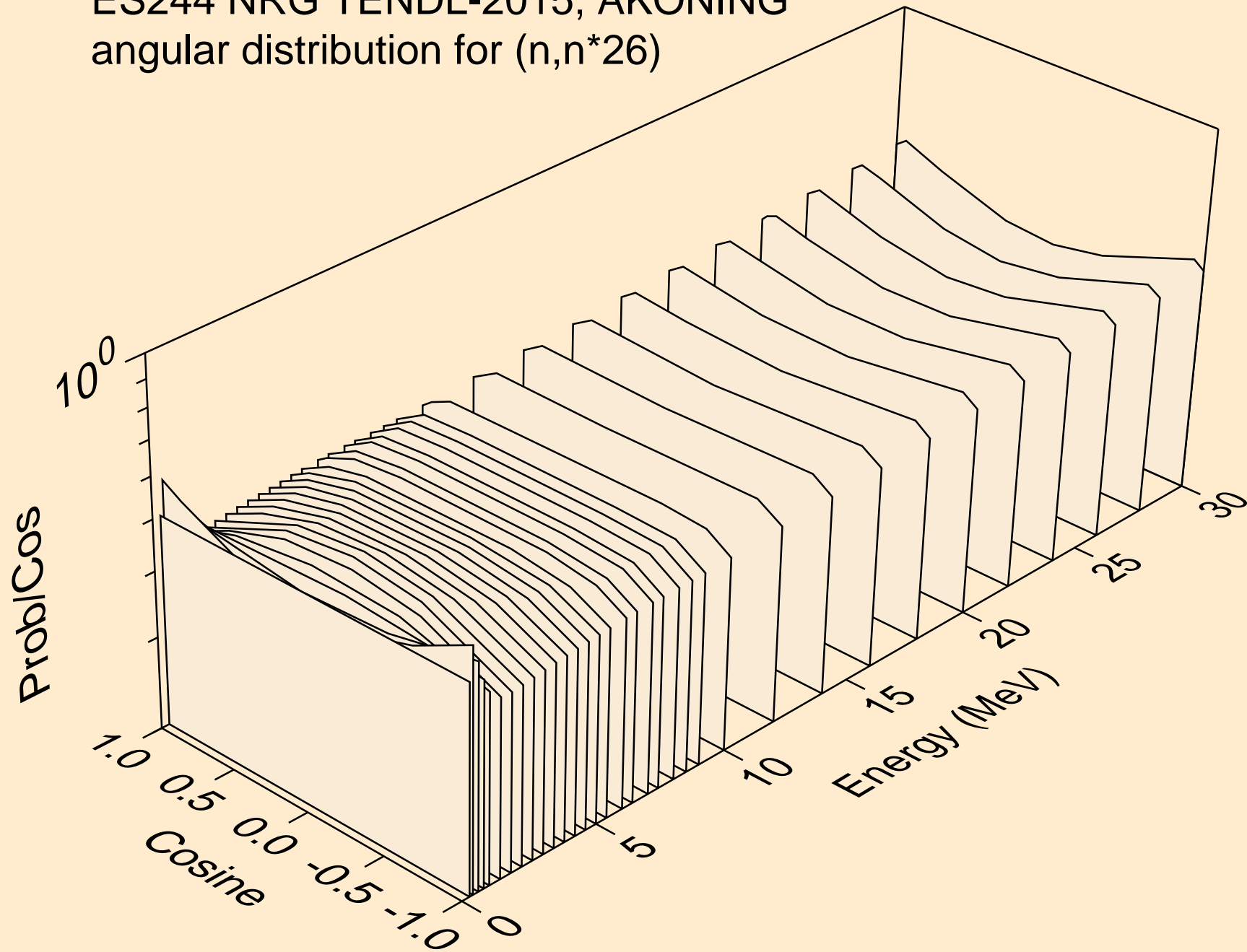
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*24)



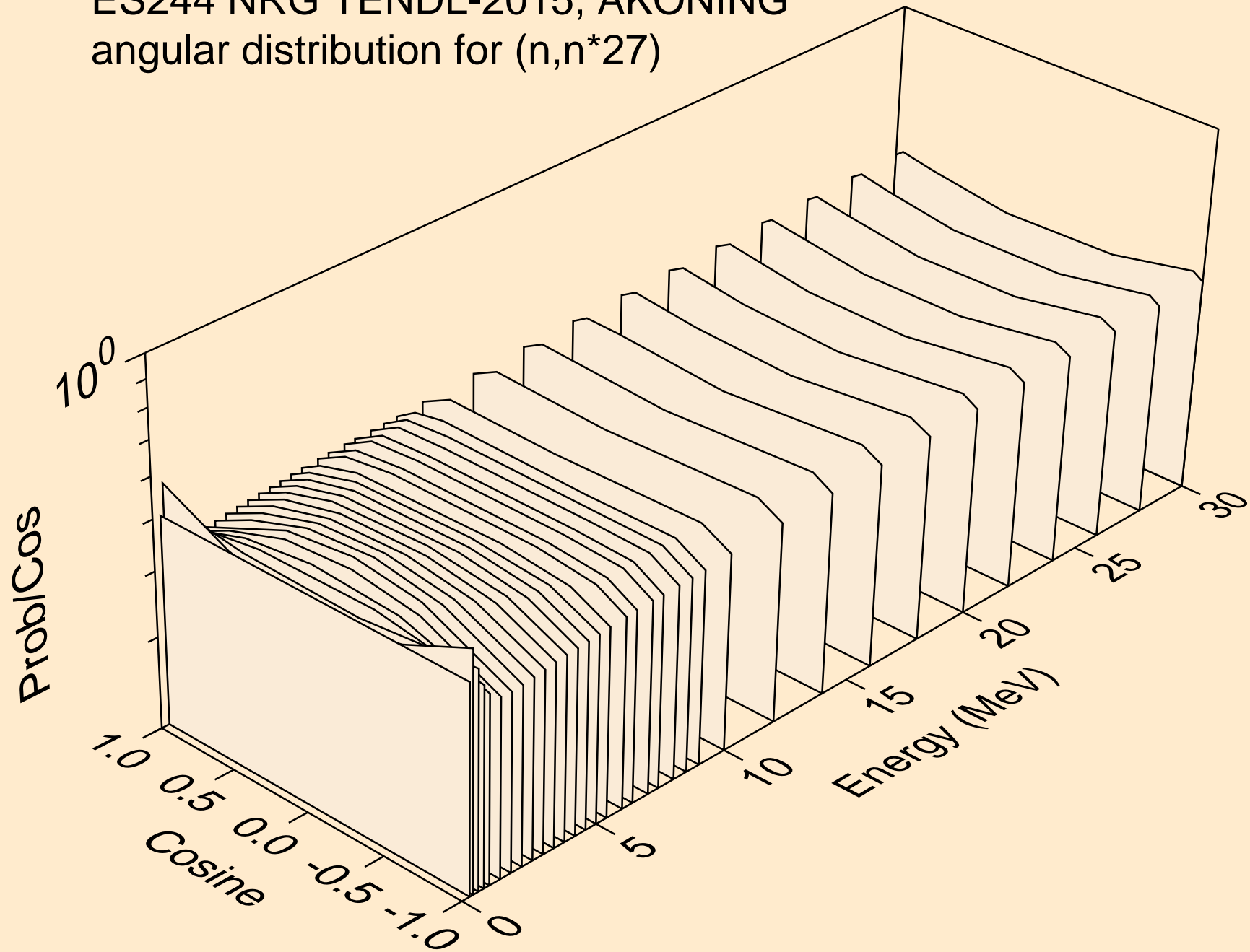
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*25)



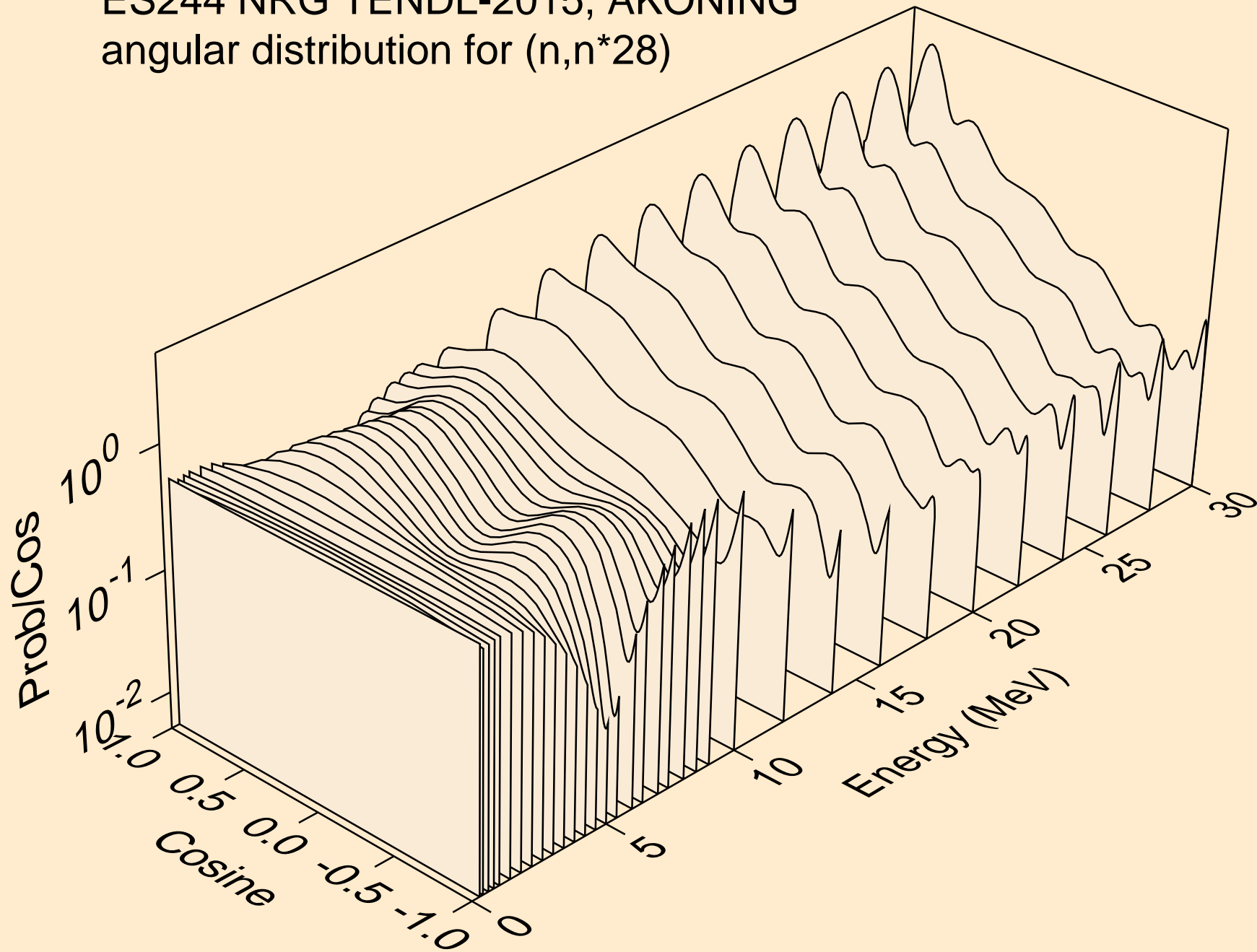
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*26)



ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*27)



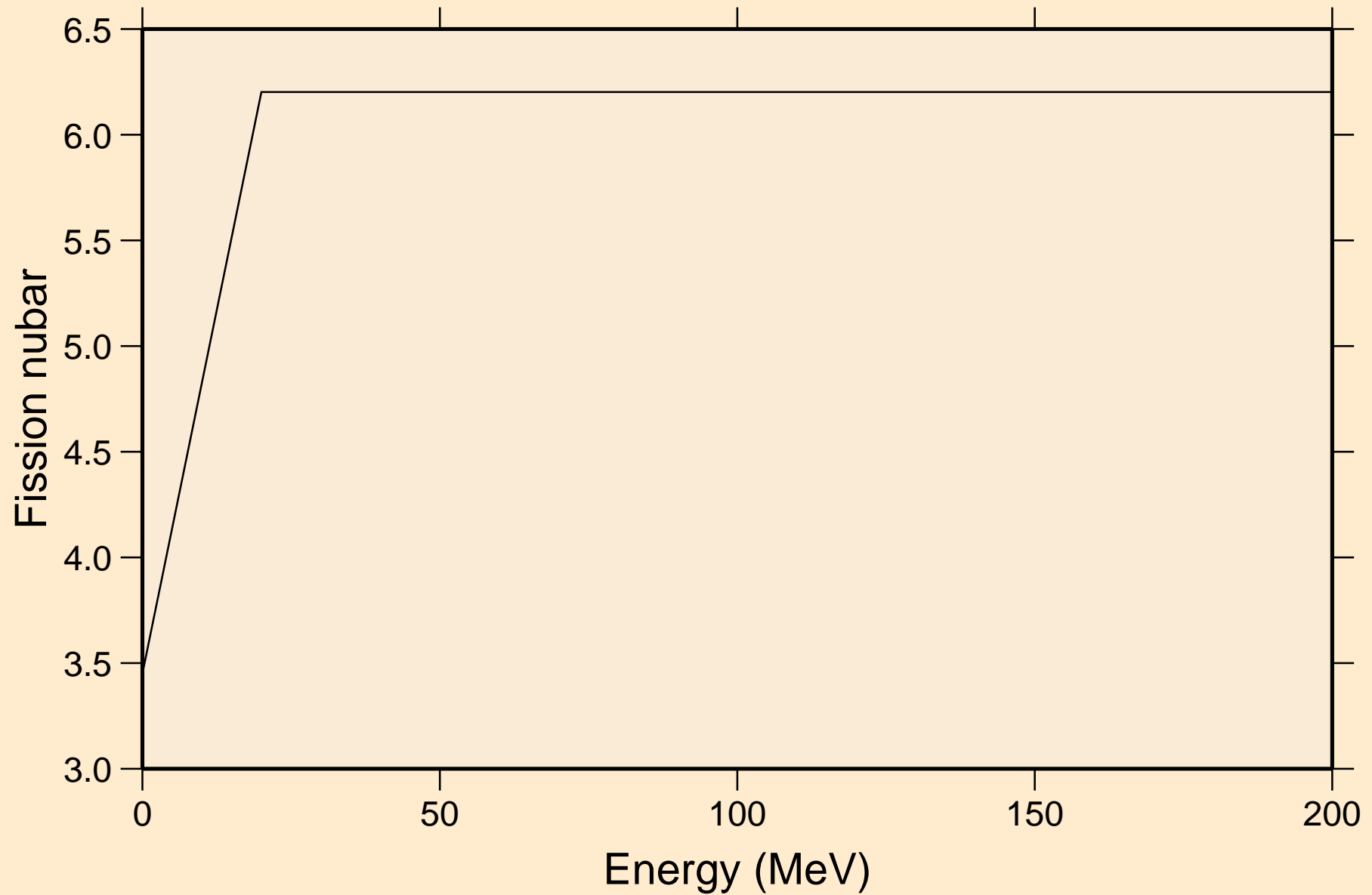
ES244 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*28)



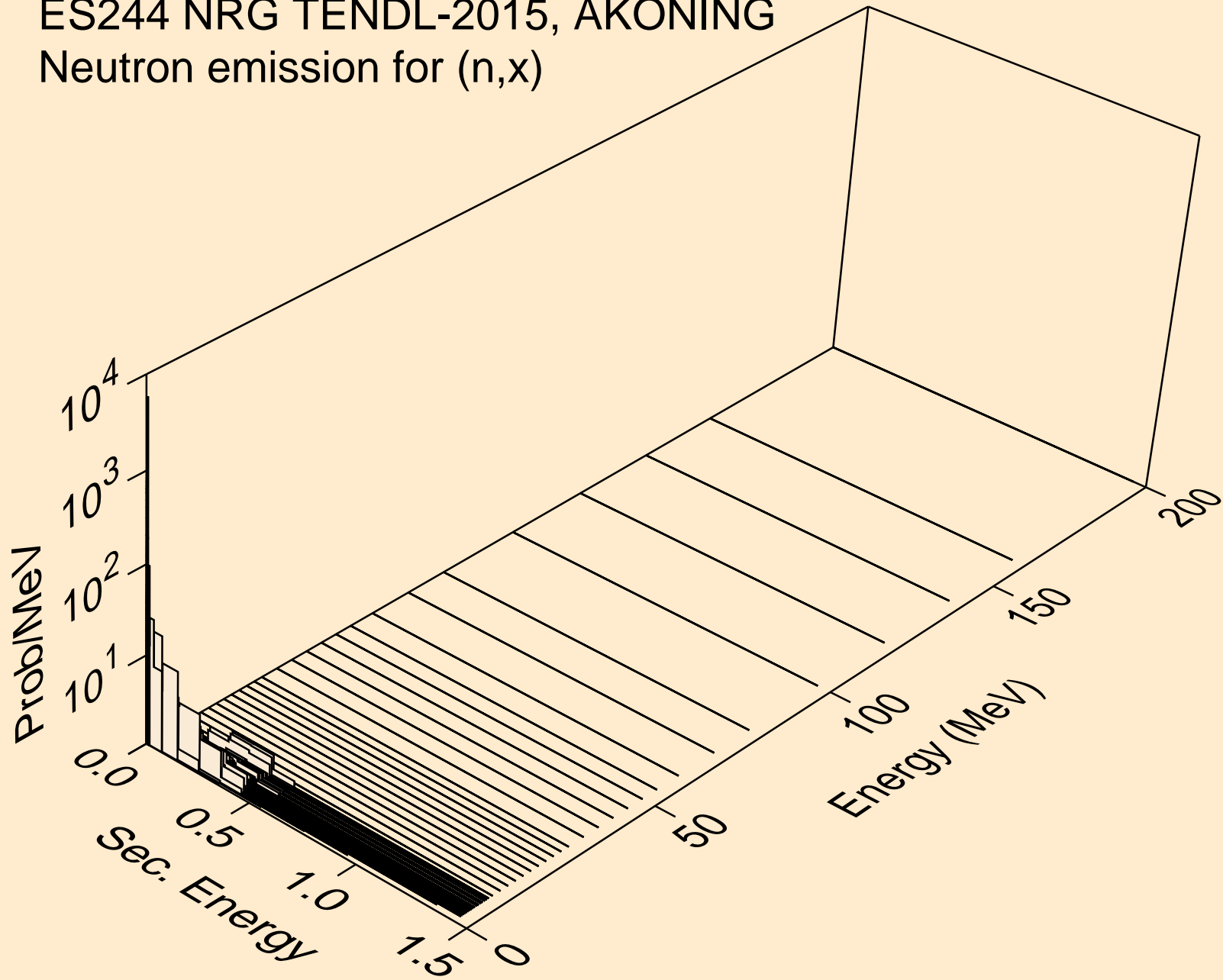


# ES244 NRG TENDL-2015, AKONING

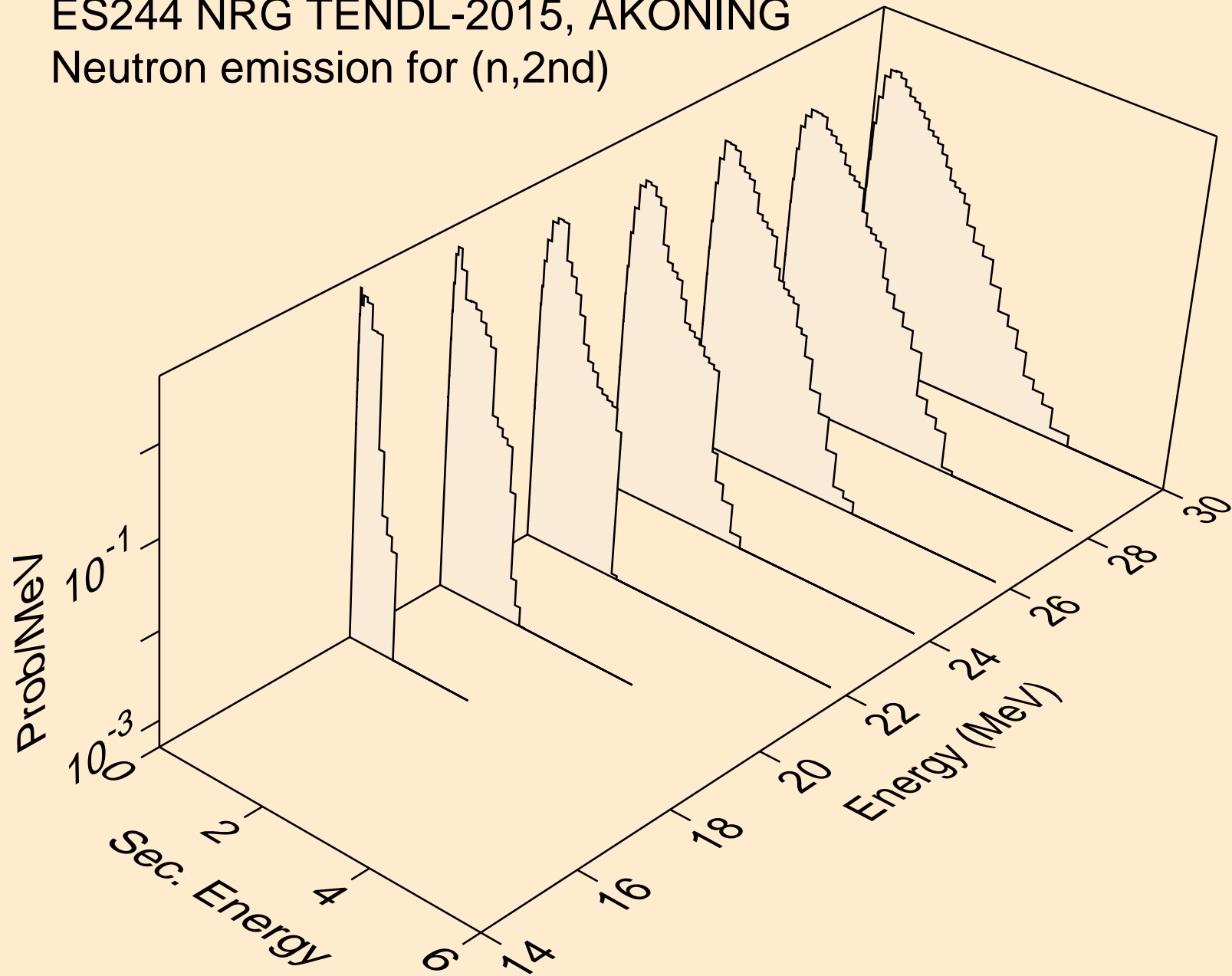
Total fission nubar



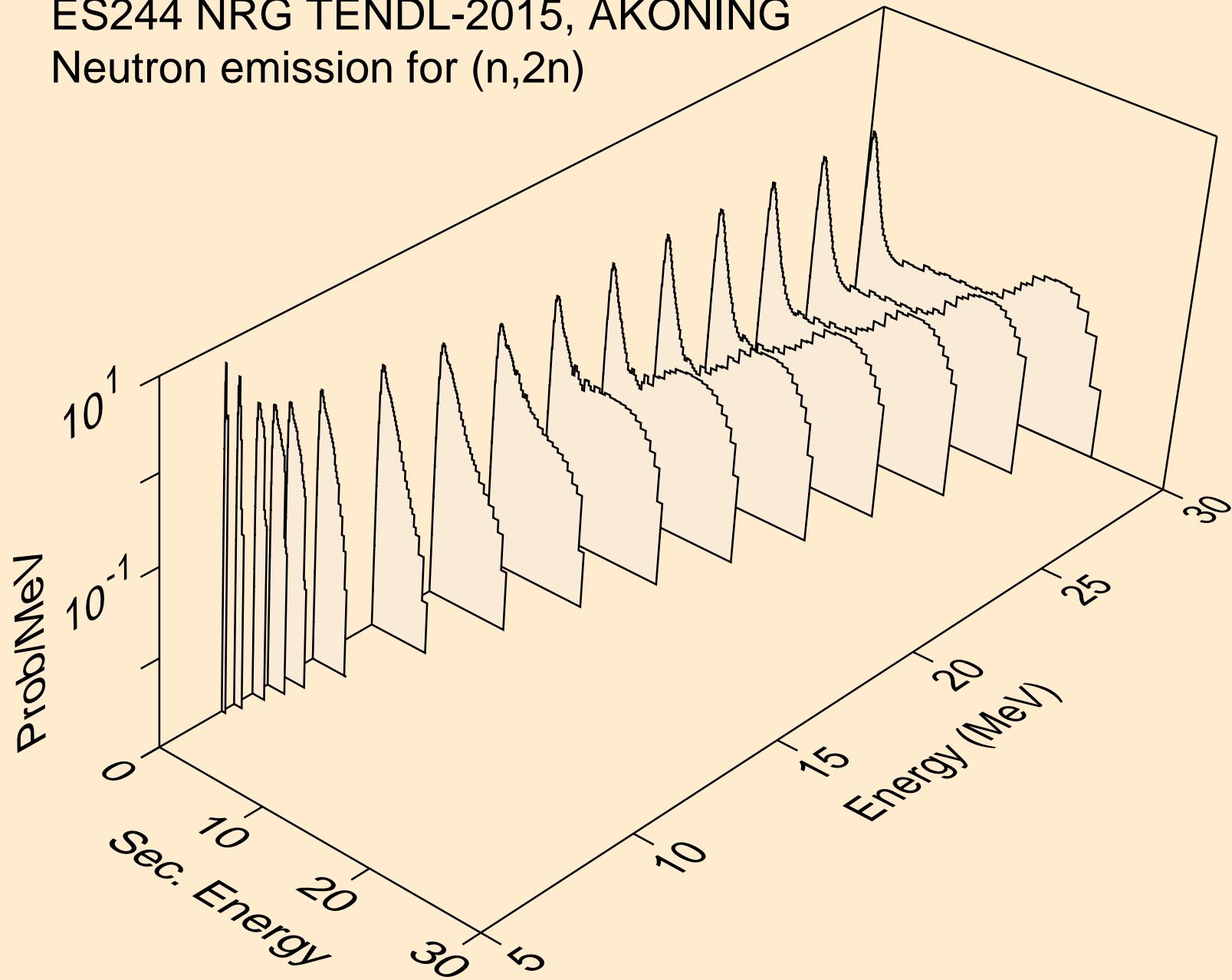
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,x)



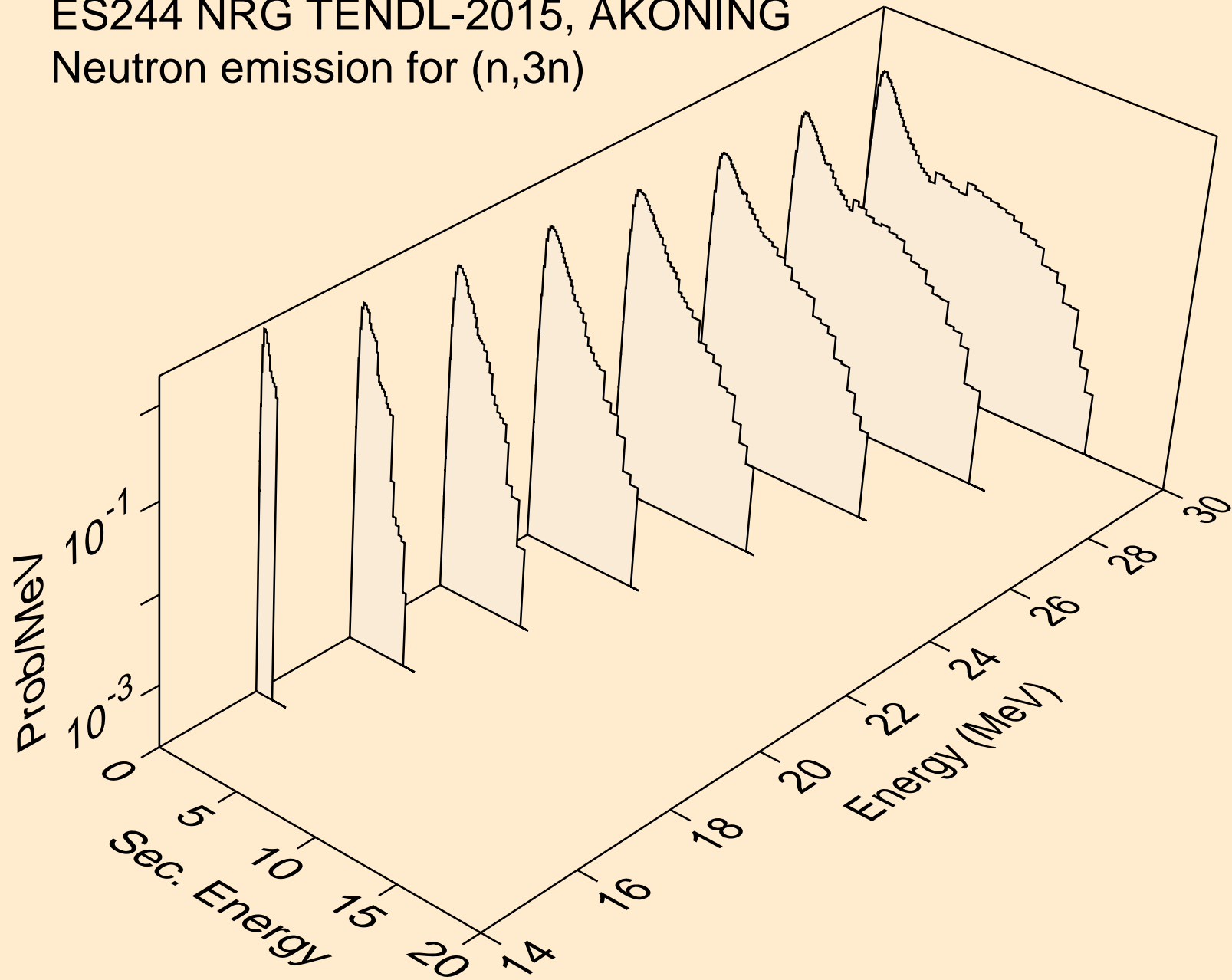
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,2nd)



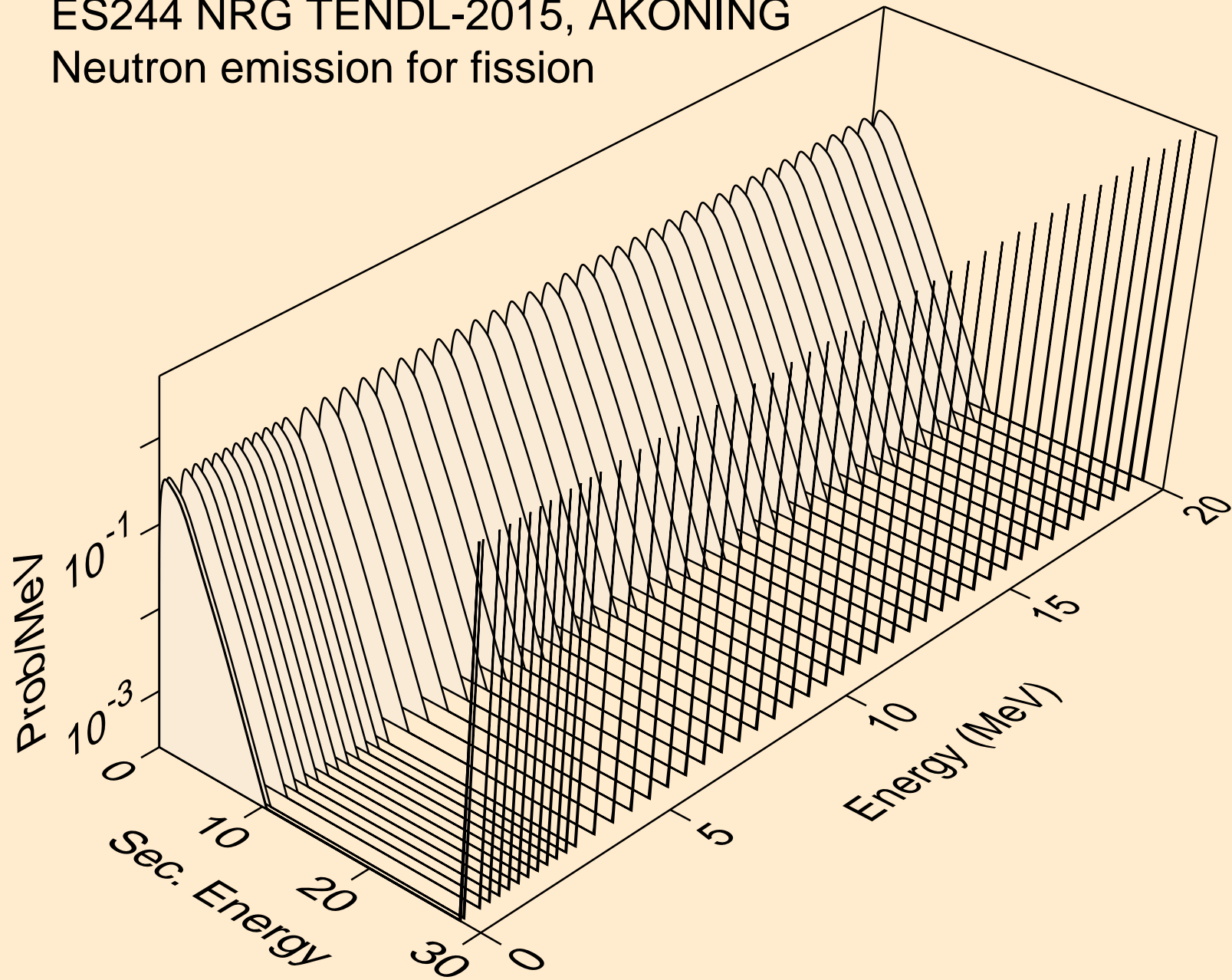
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)



ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)

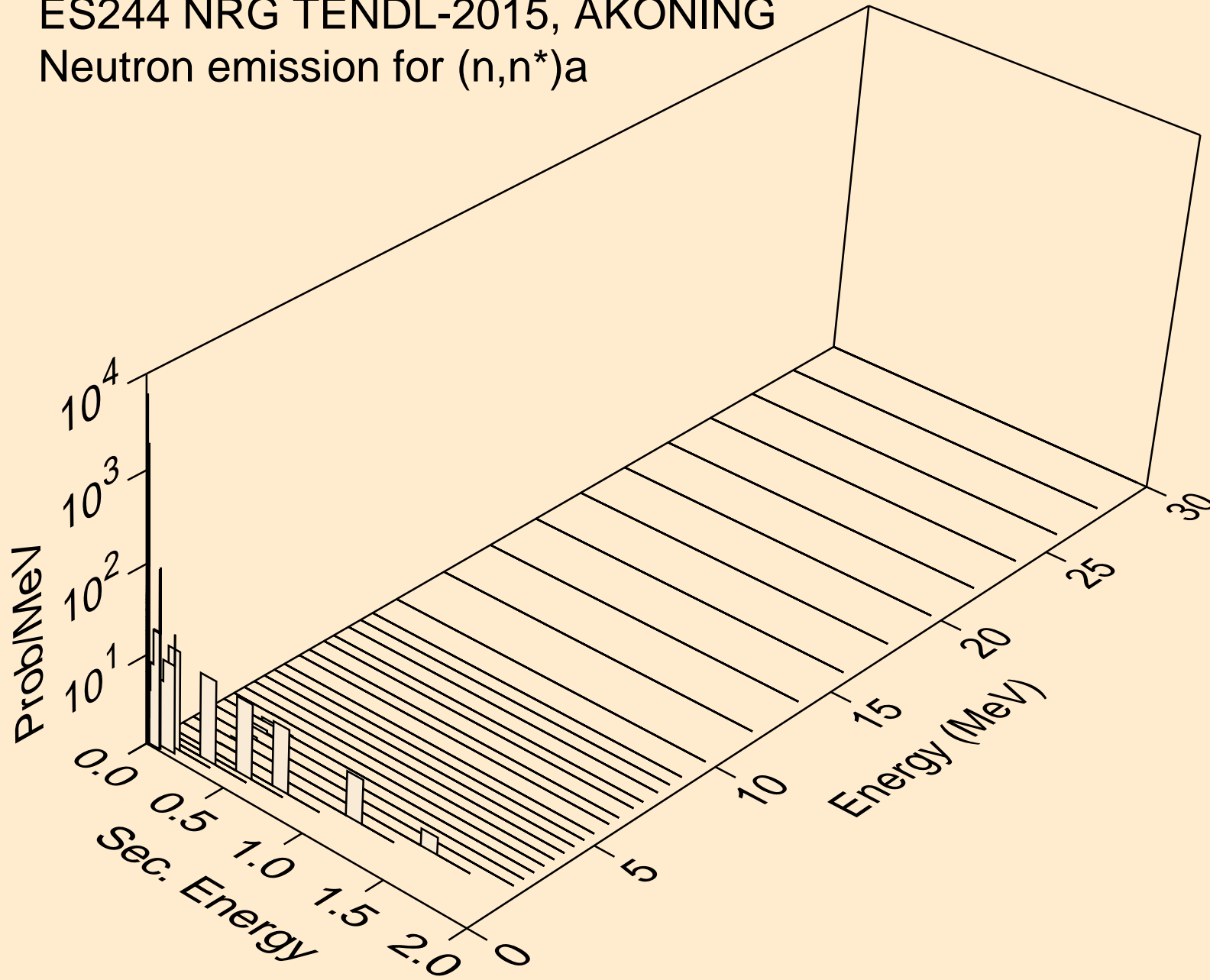


ES244 NRG TENDL-2015, AKONING  
Neutron emission for fission

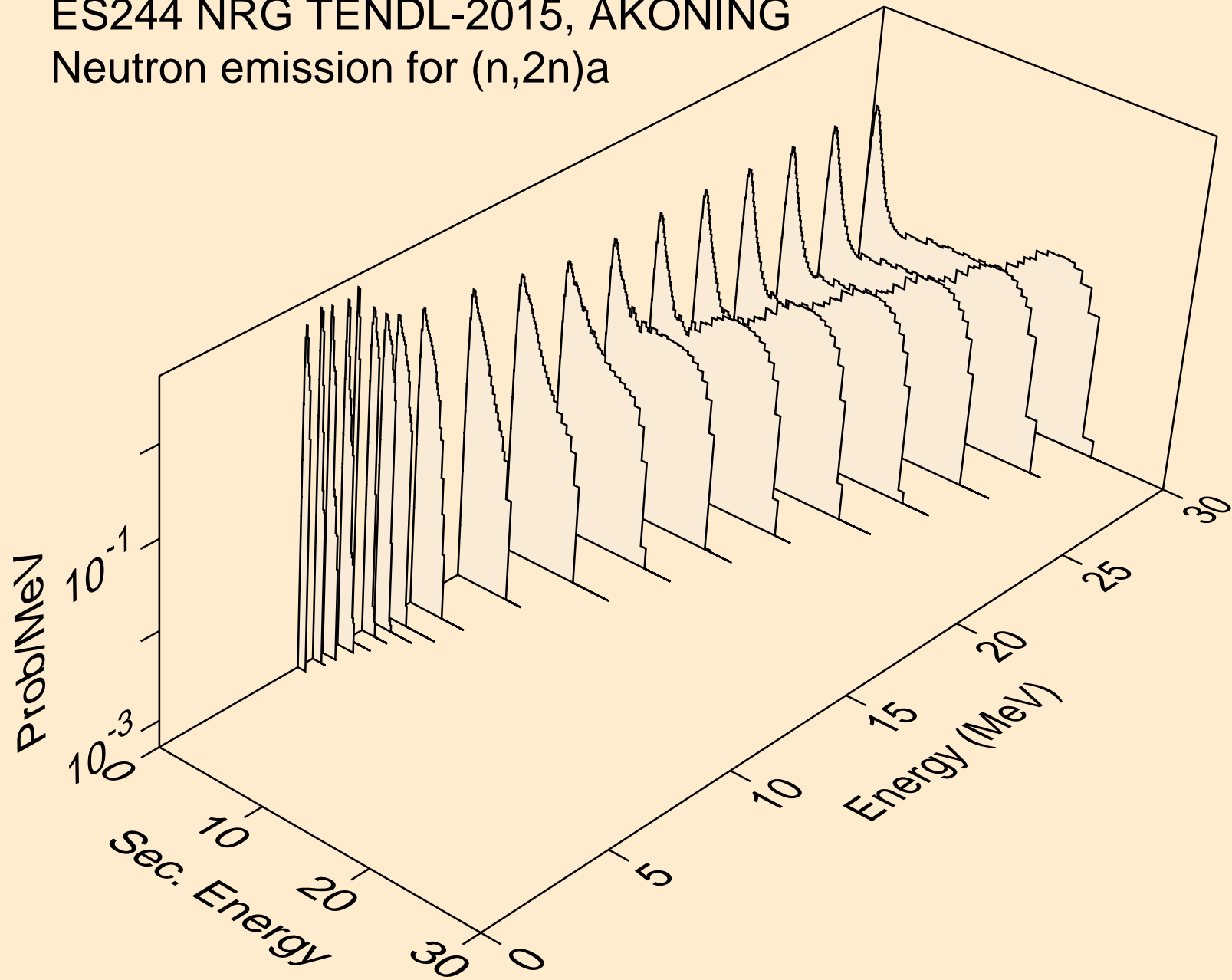


# ES244 NRG TENDL-2015, AKONING

## Neutron emission for (n,n\*)a

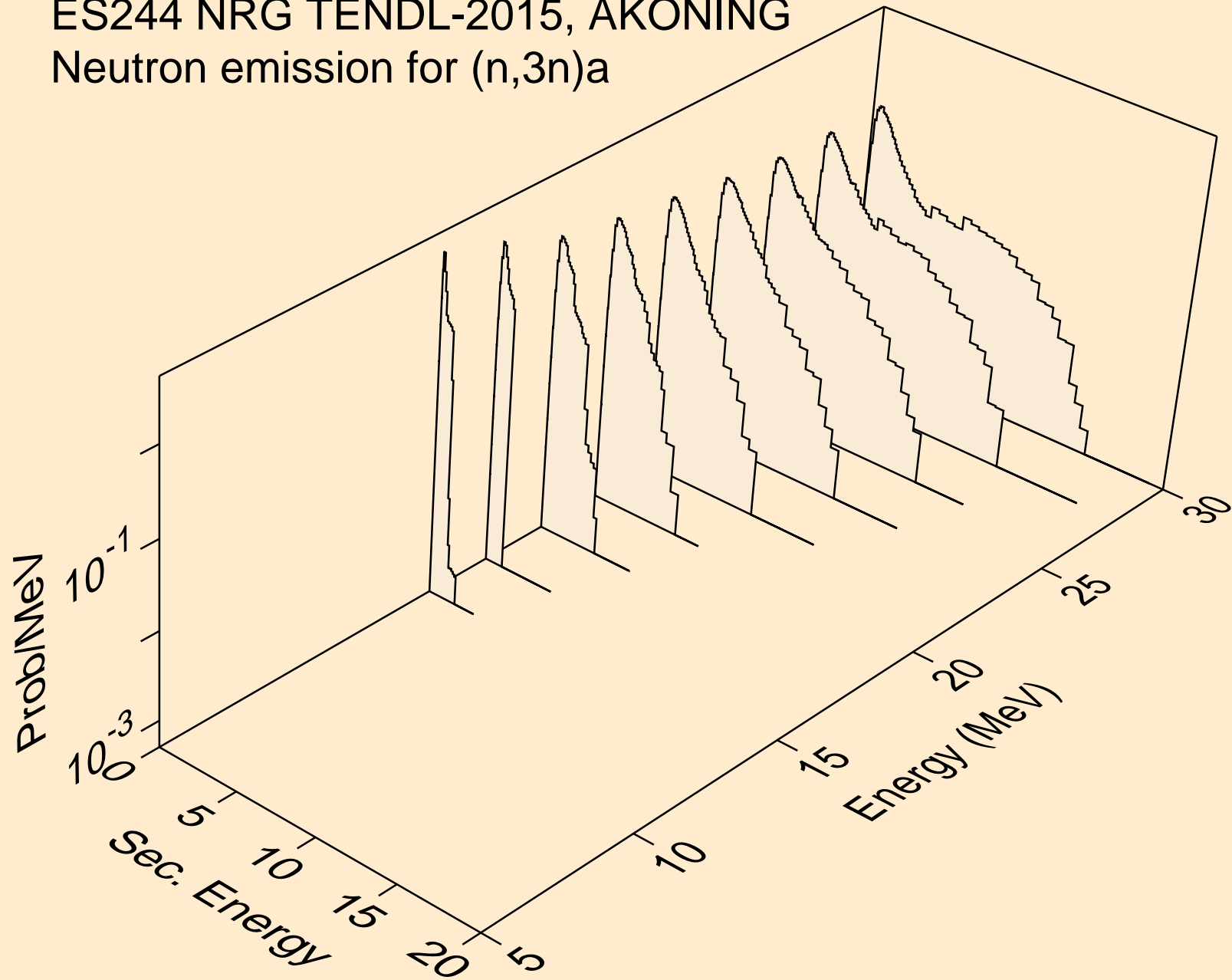


ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)a

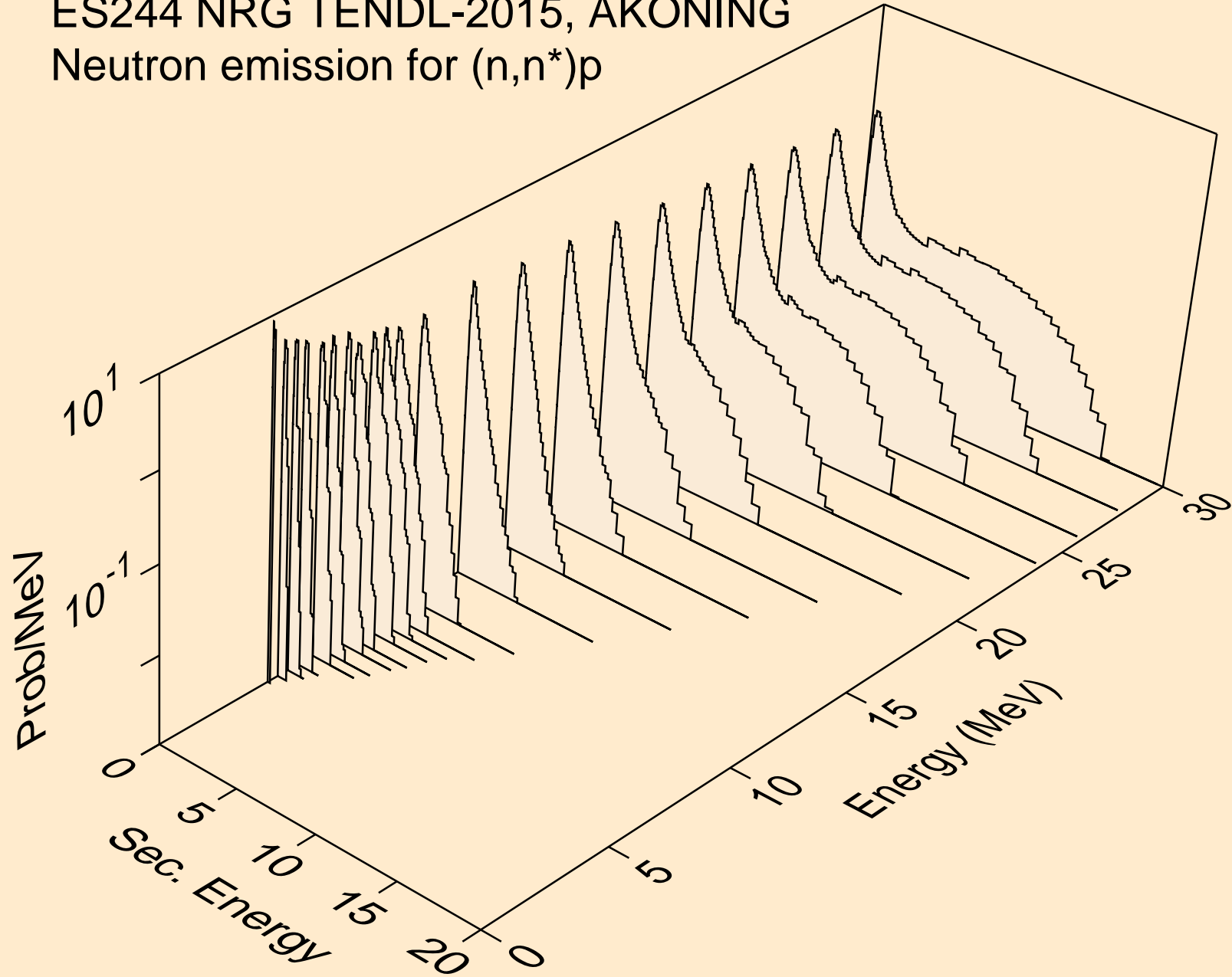




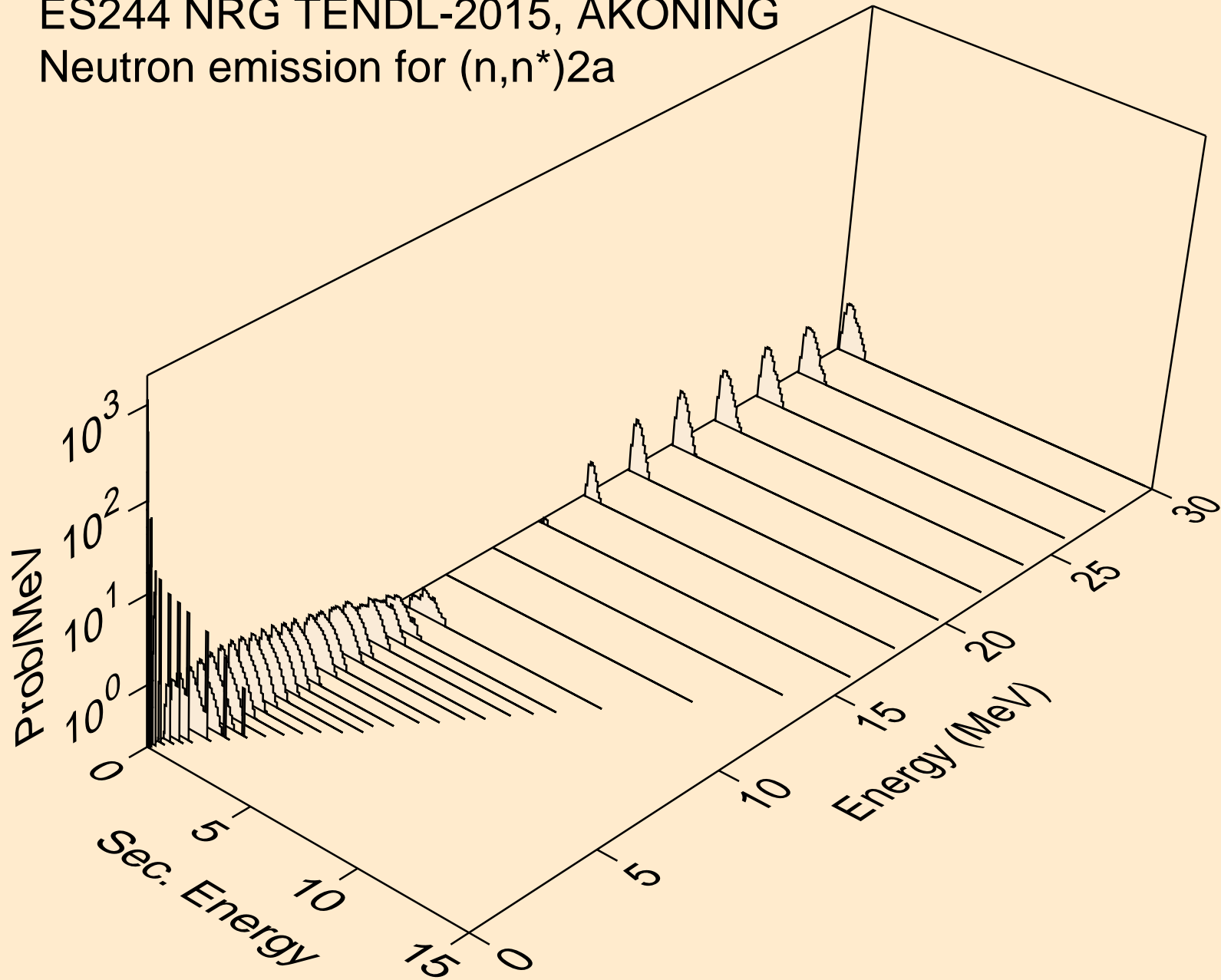
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)a



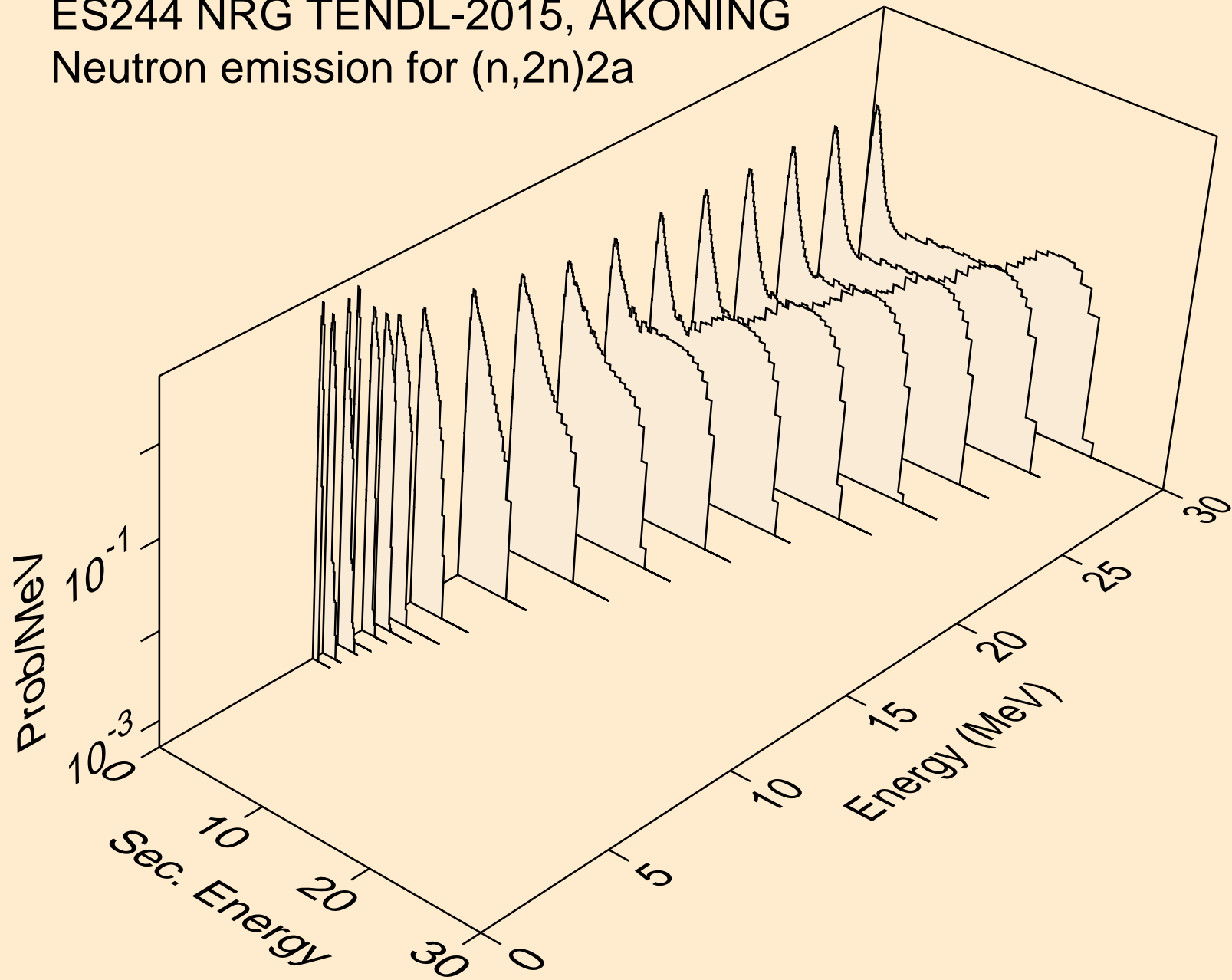
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)p



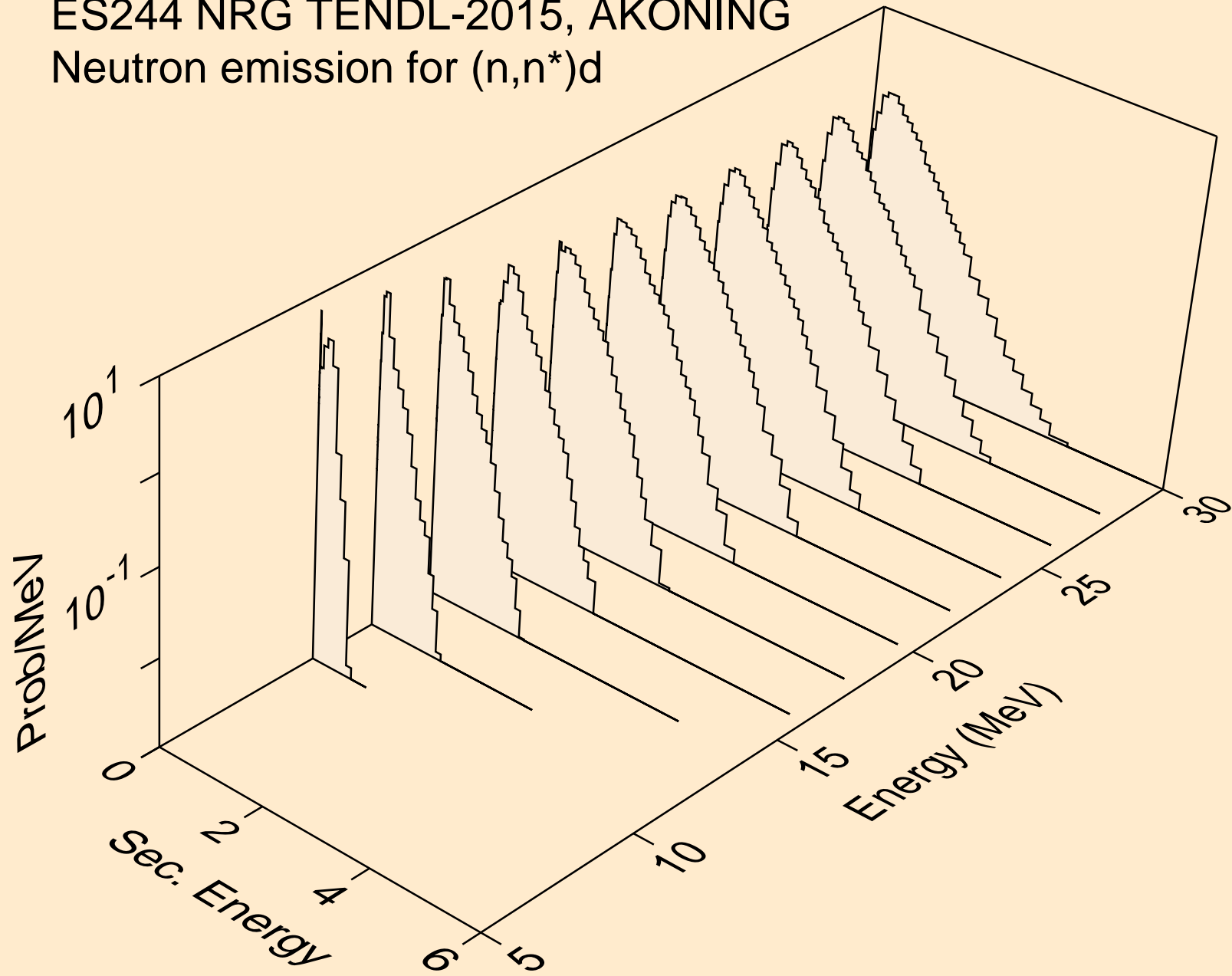
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)2a



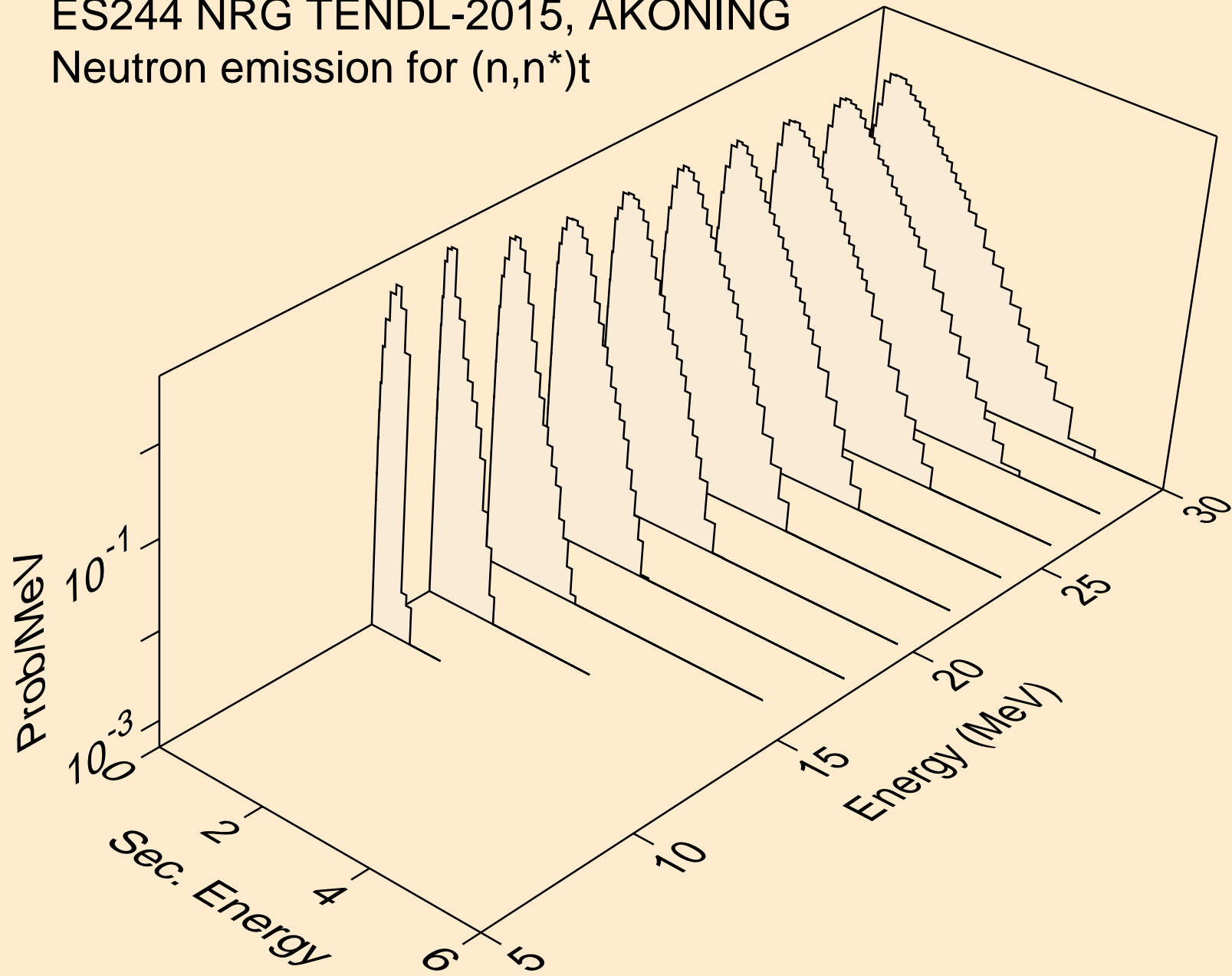
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)2a



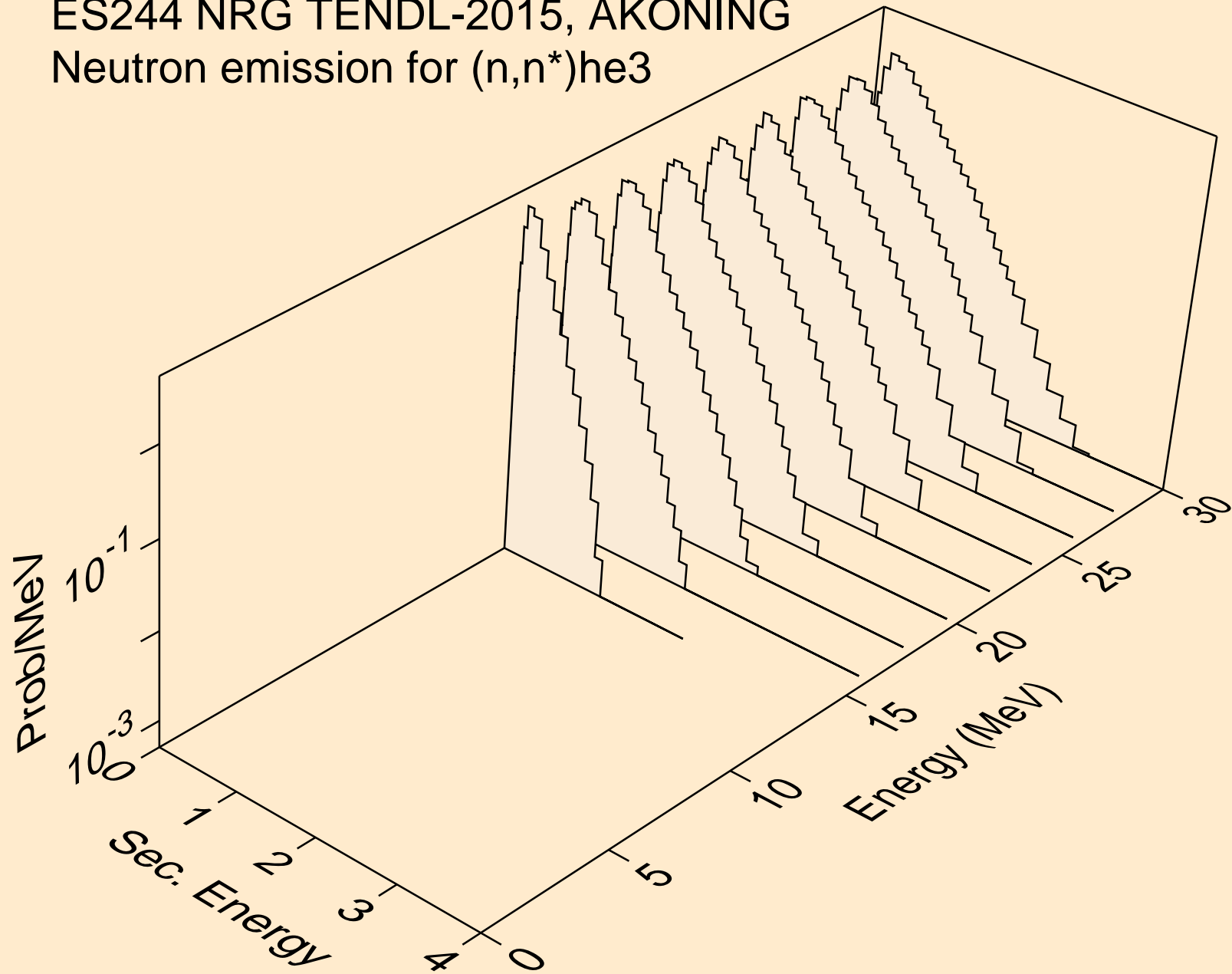
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d



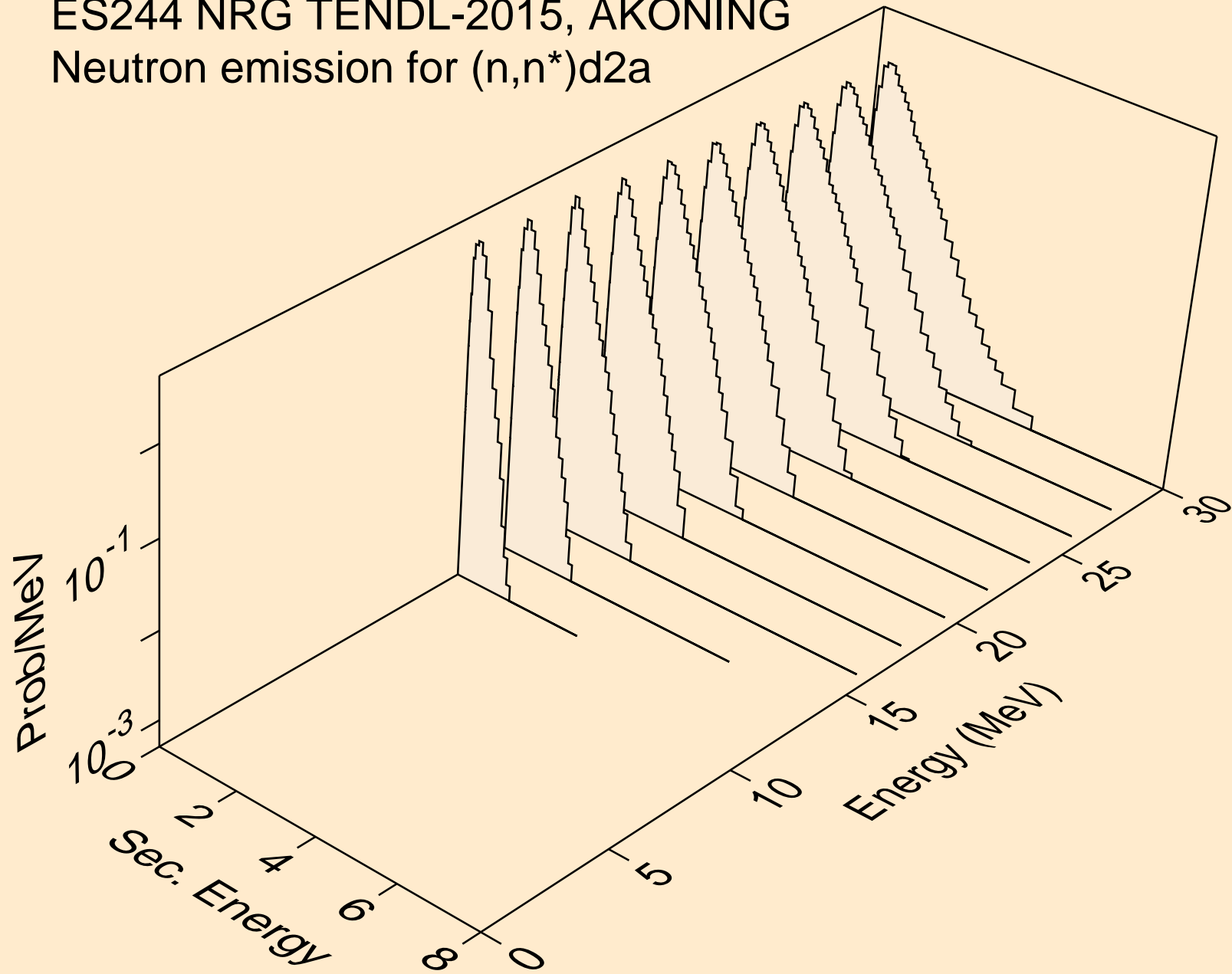
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t



ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)he3

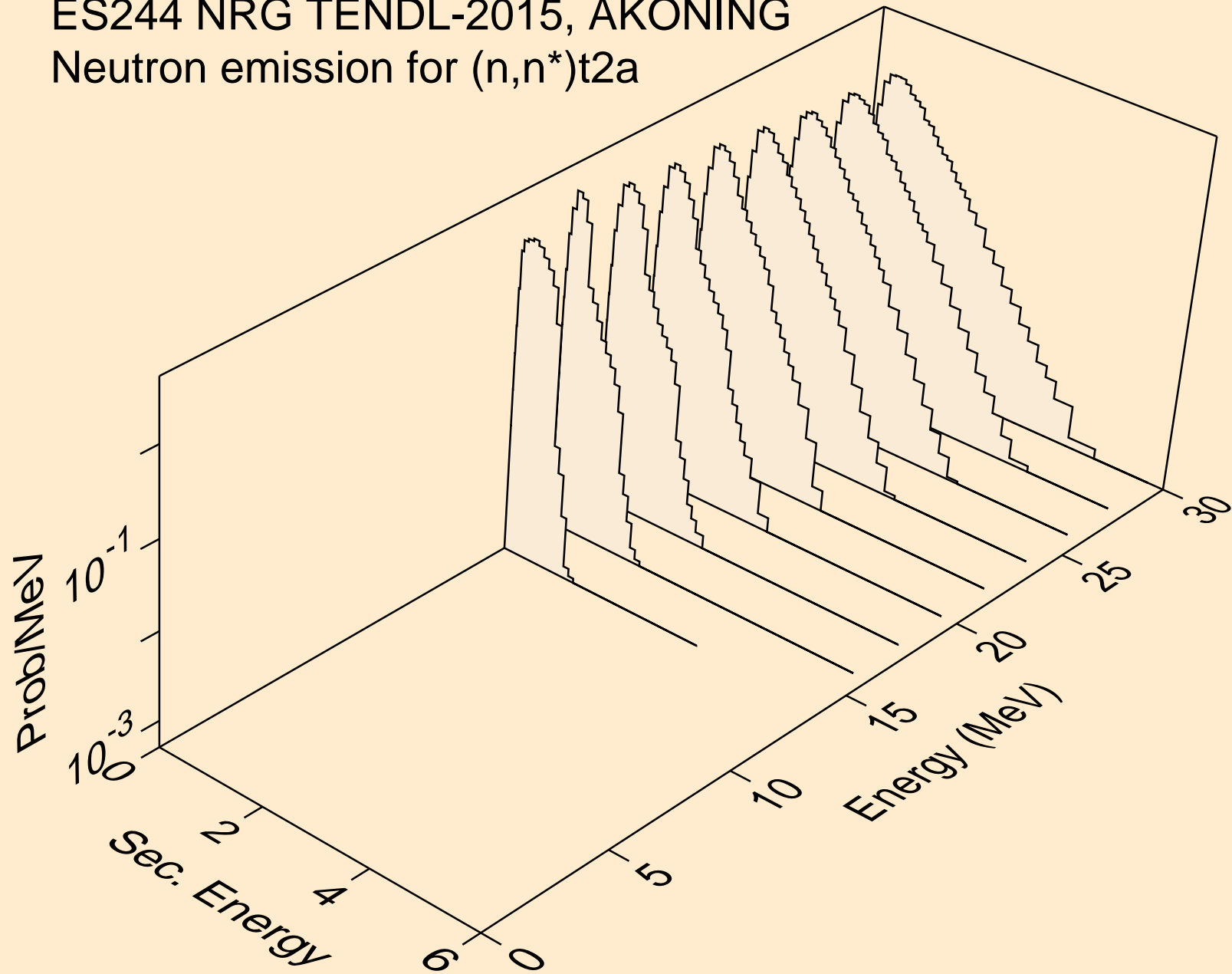


ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d2a

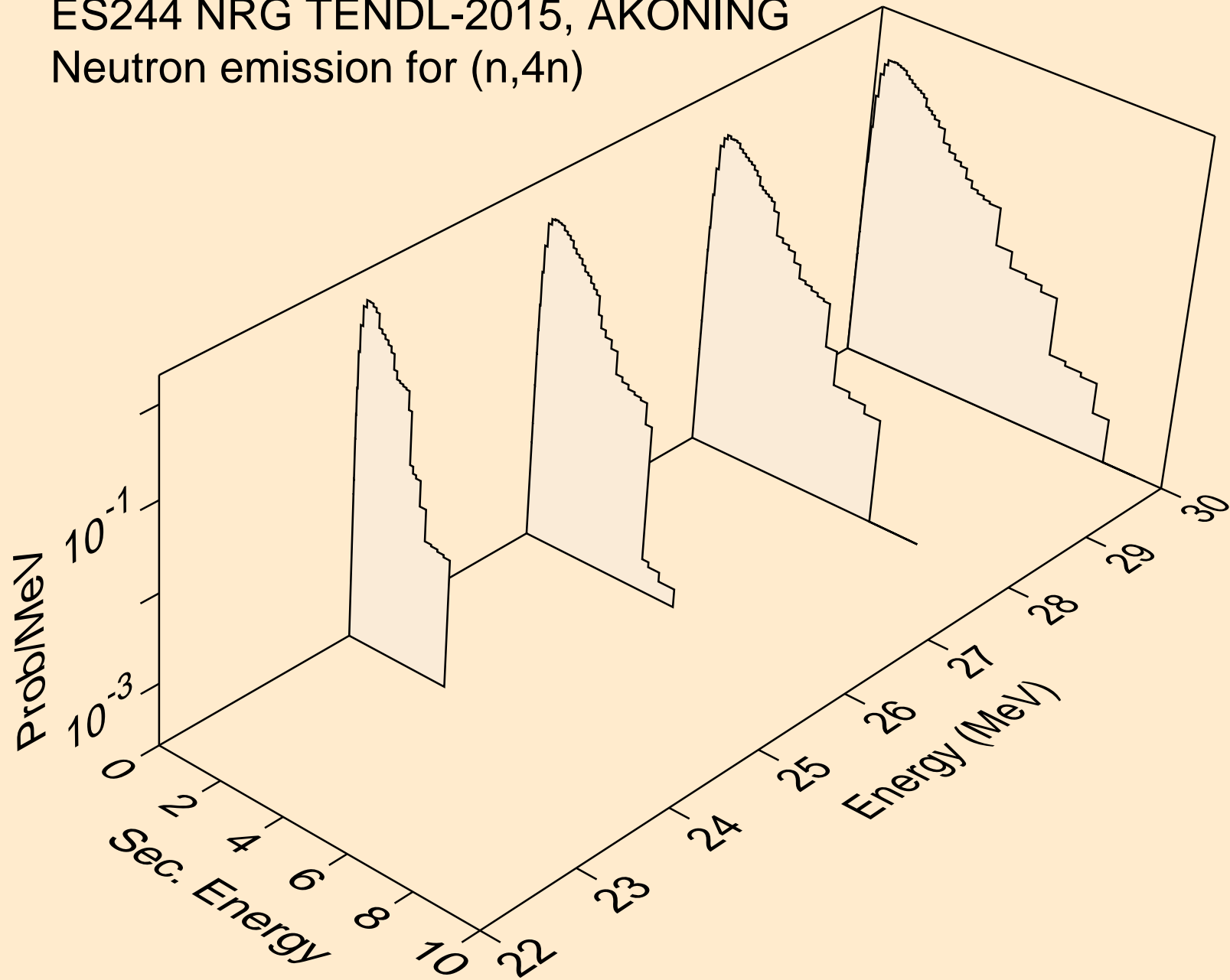




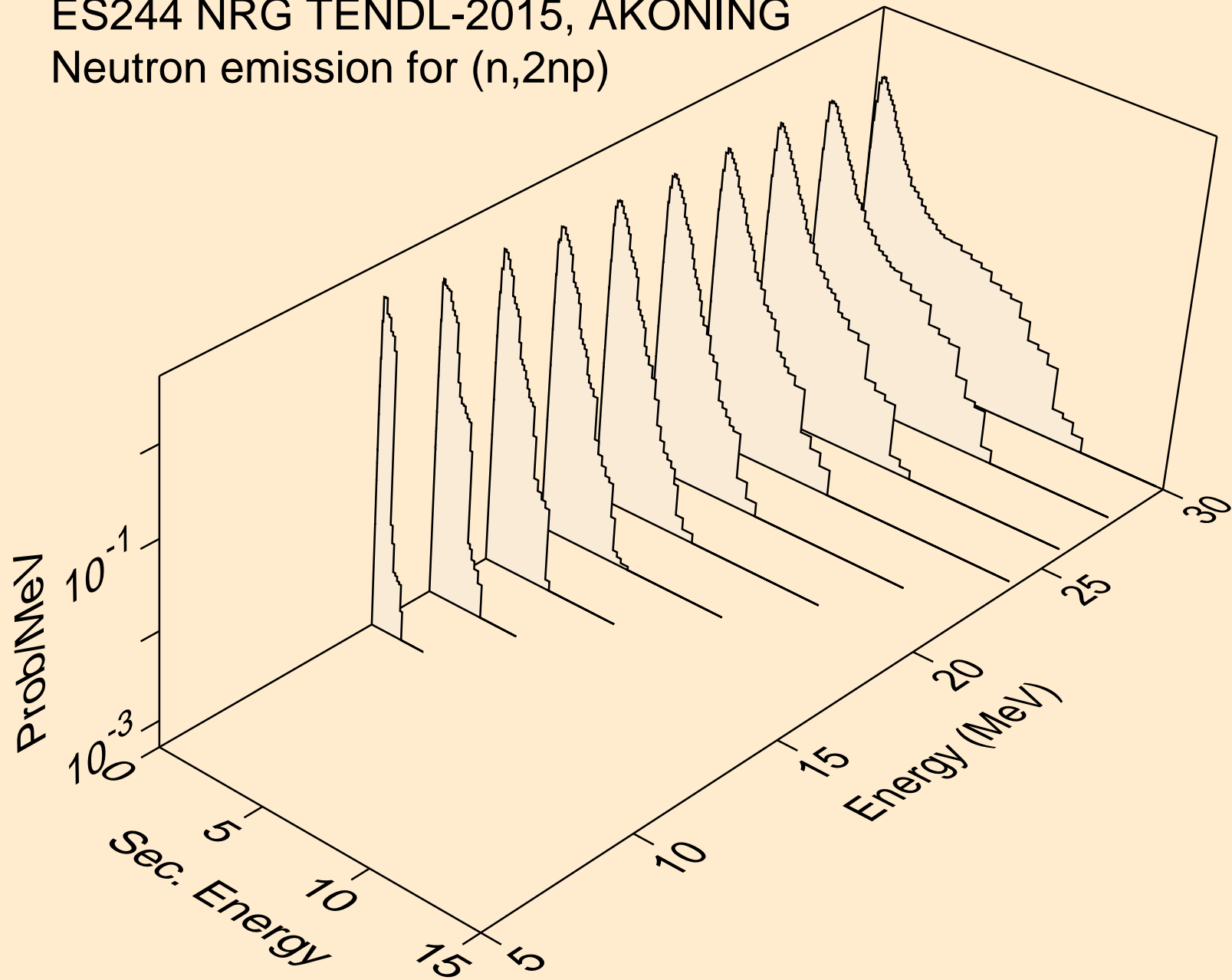
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t2a



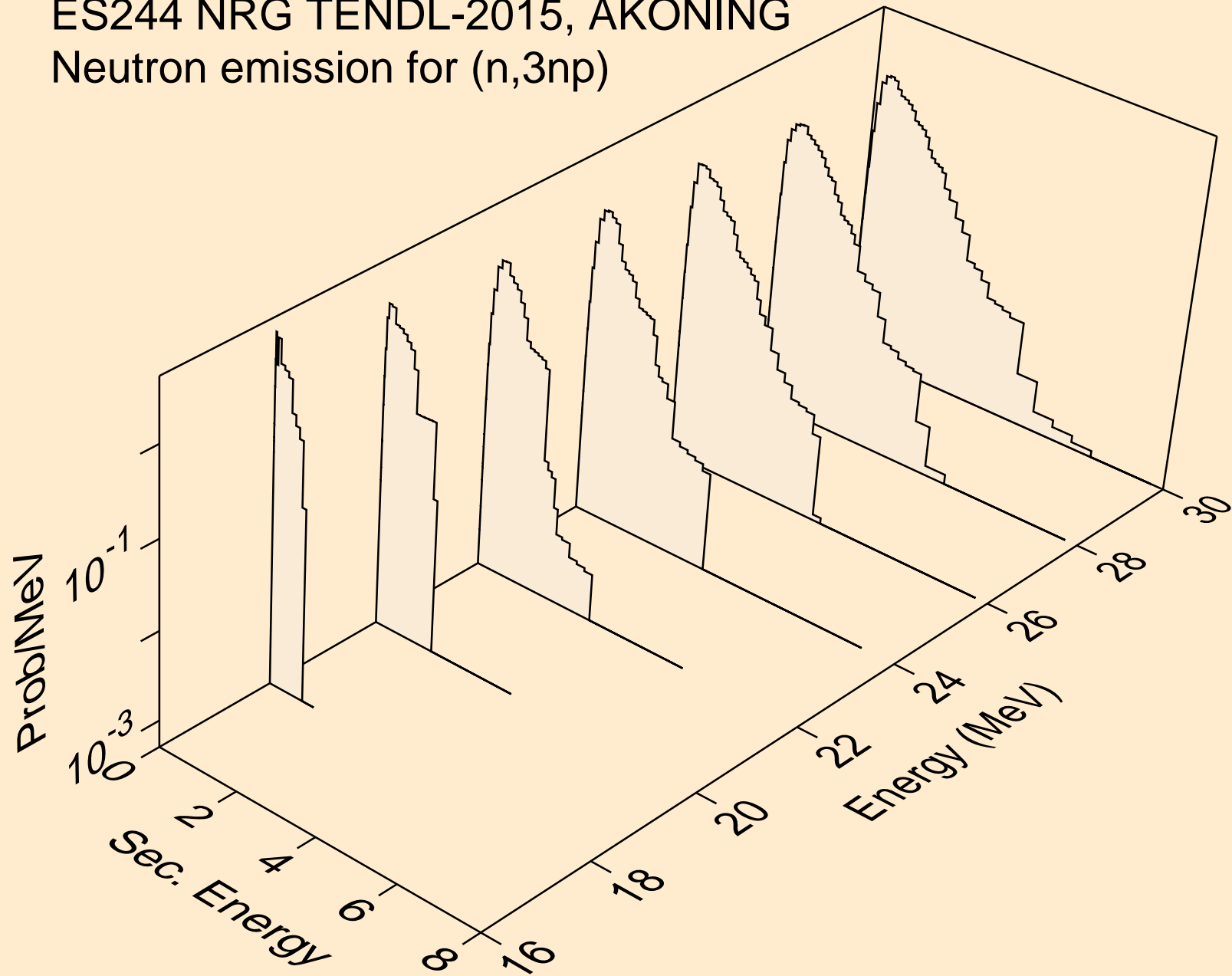
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,4n)



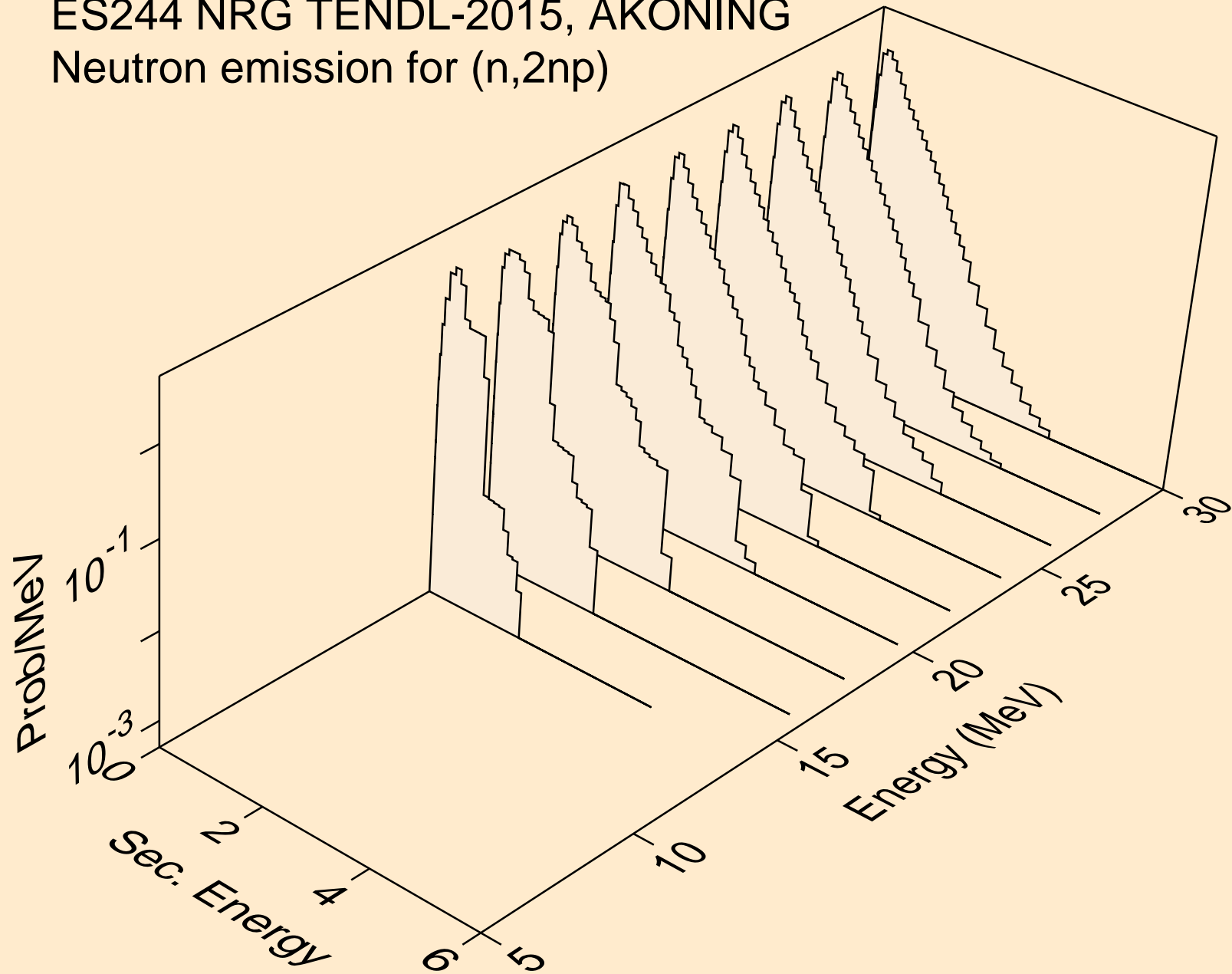
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



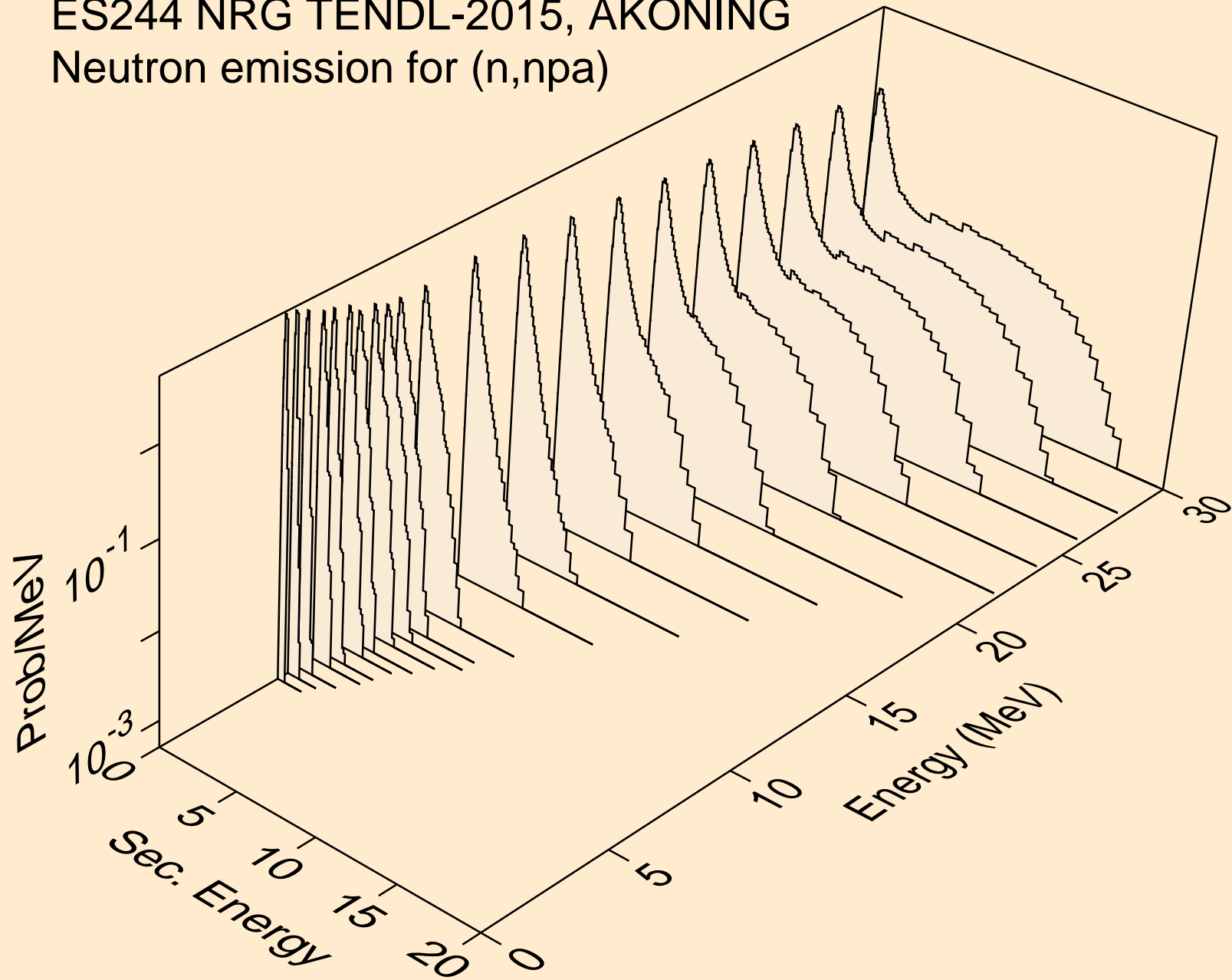
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,3np)



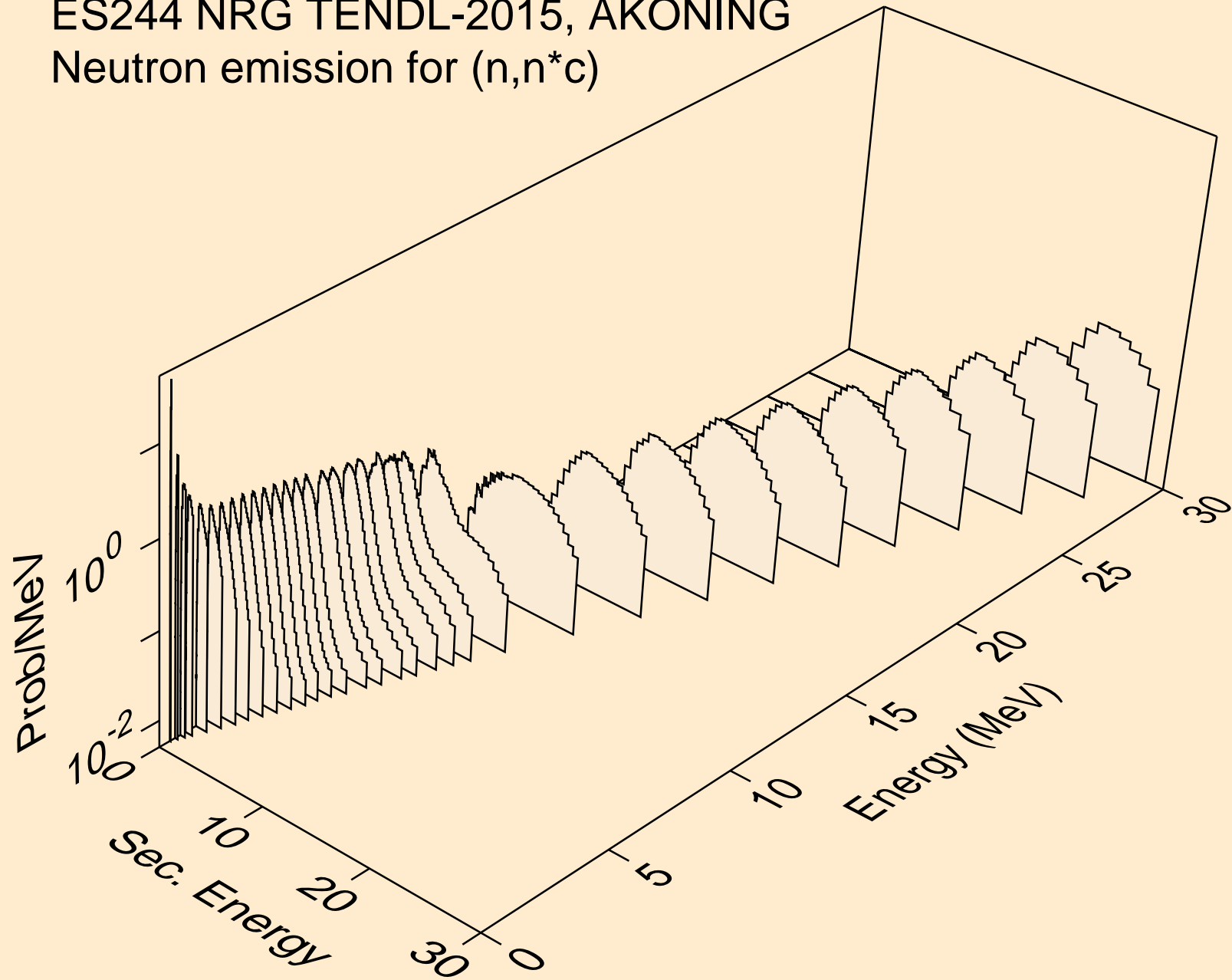
ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,npa)

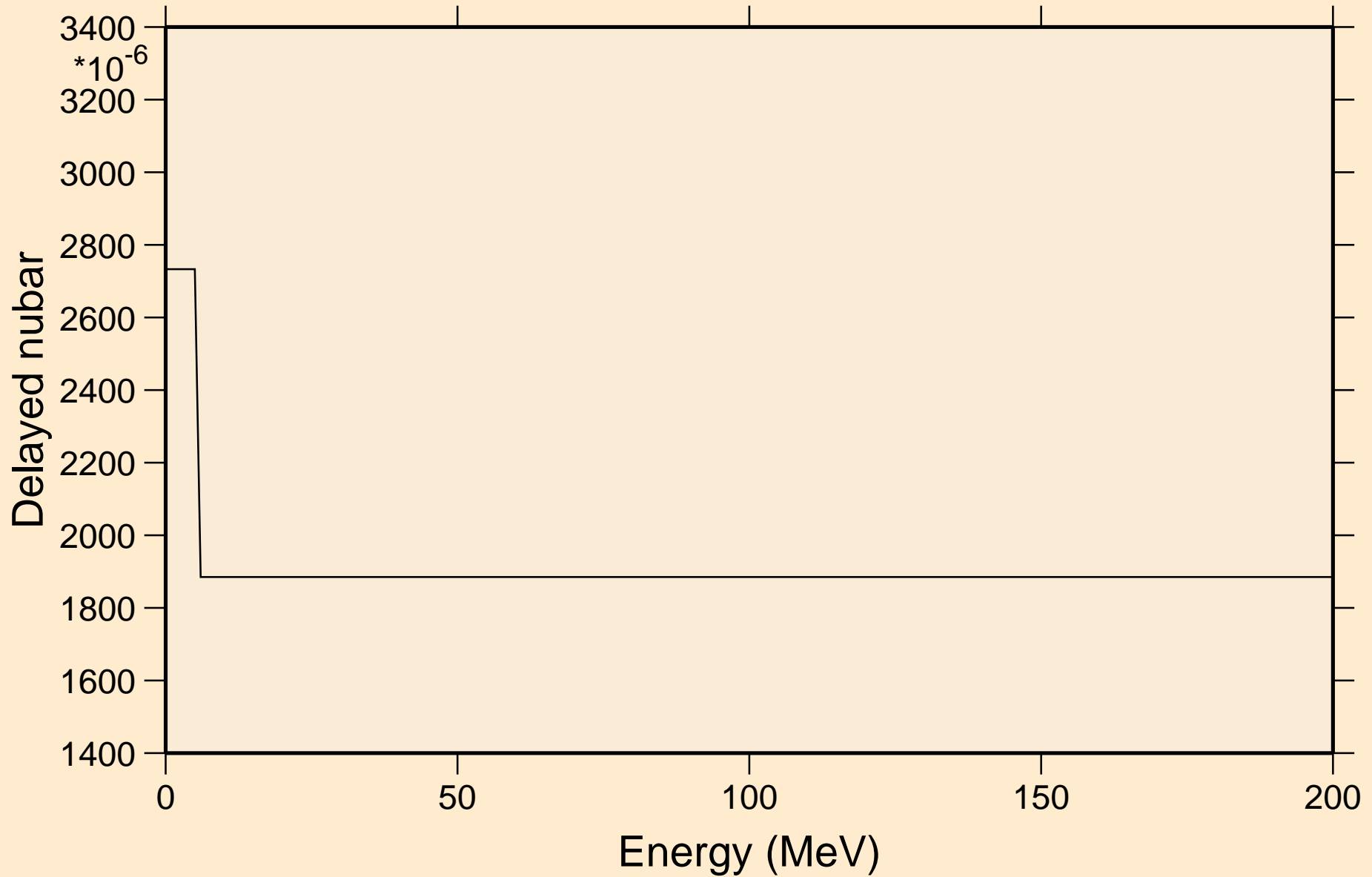


ES244 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*c)



# ES244 NRG TENDL-2015, AKONING

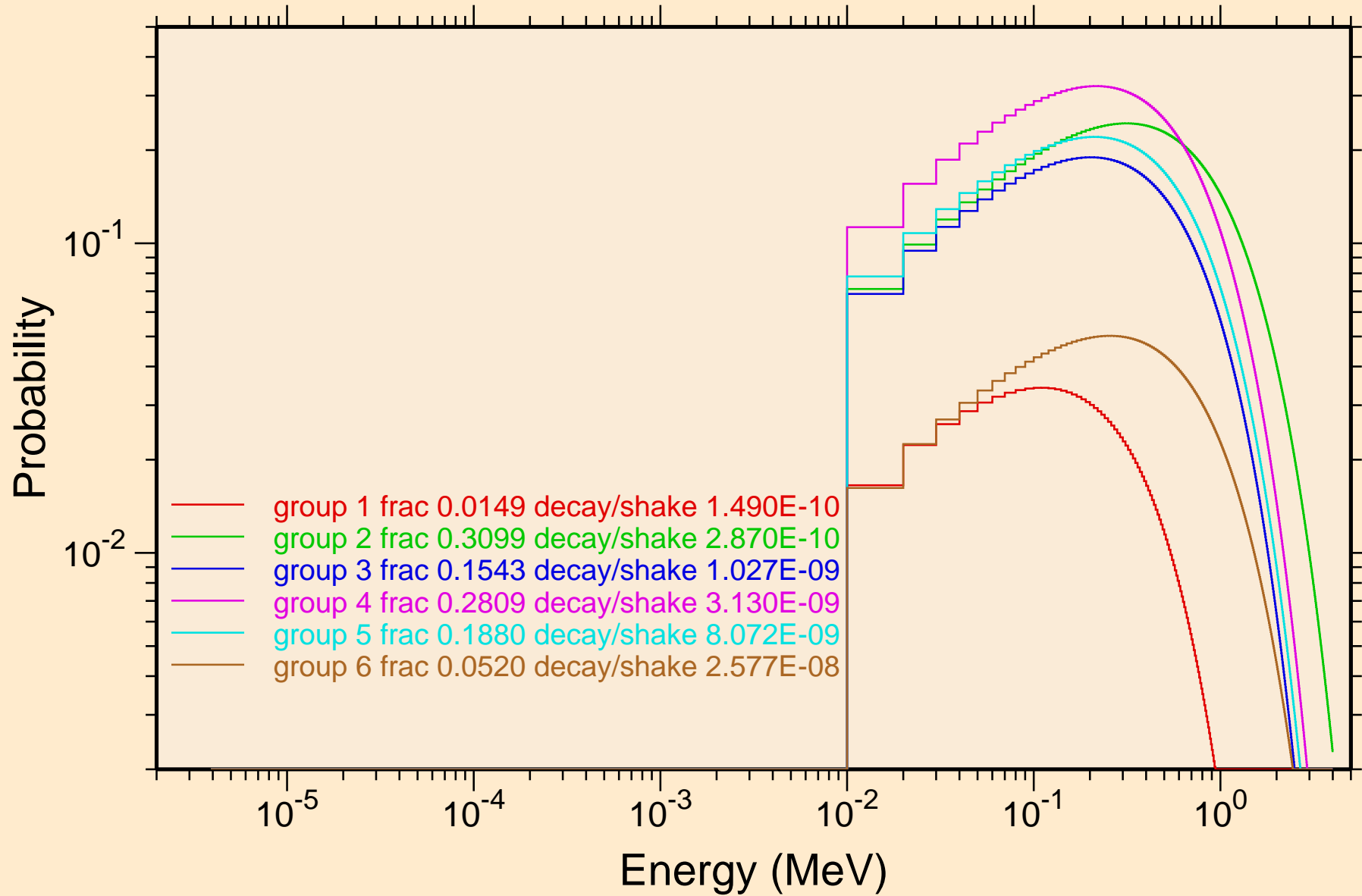
## Delayed nubar



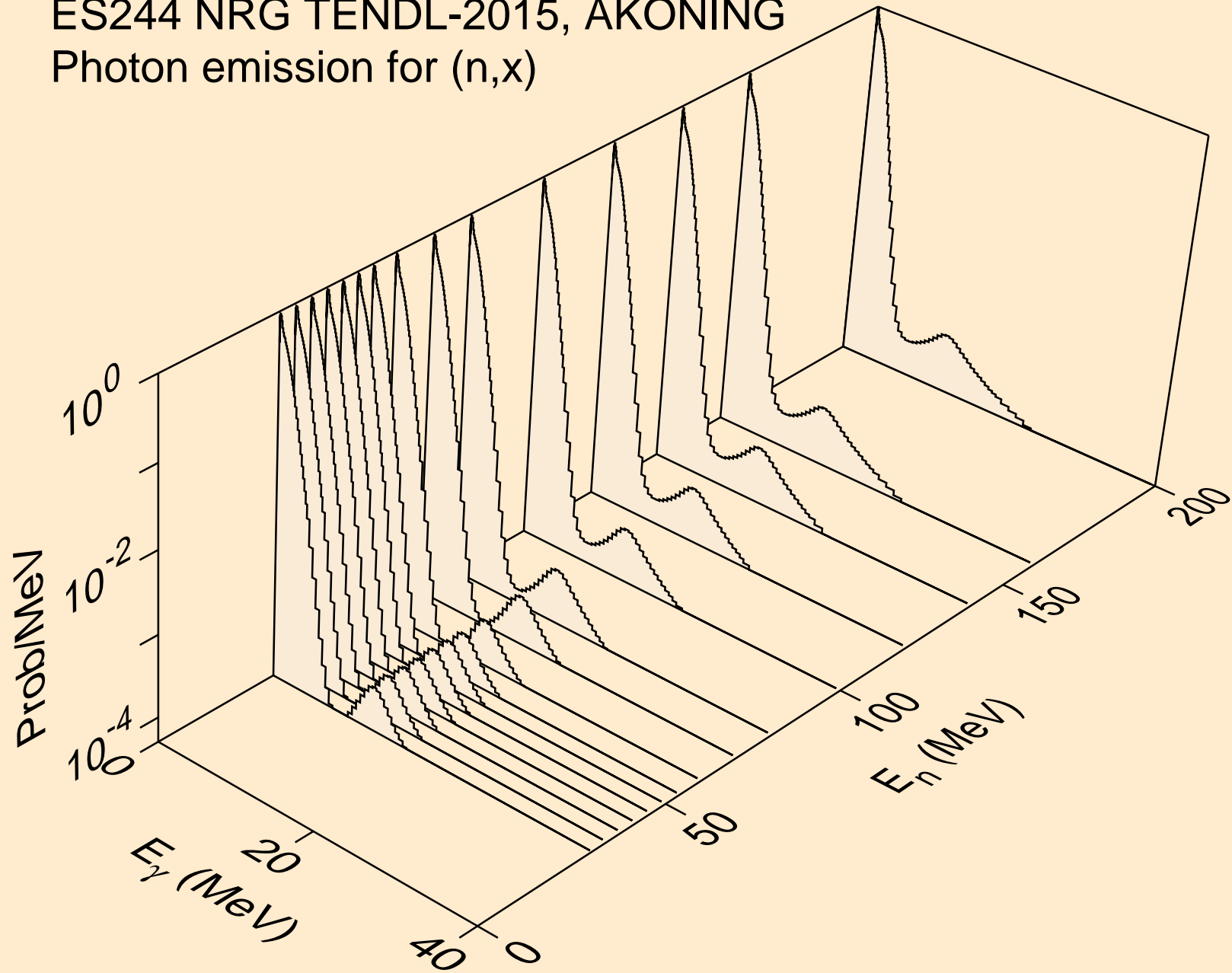


# ES244 NRG TENDL-2015, AKONING

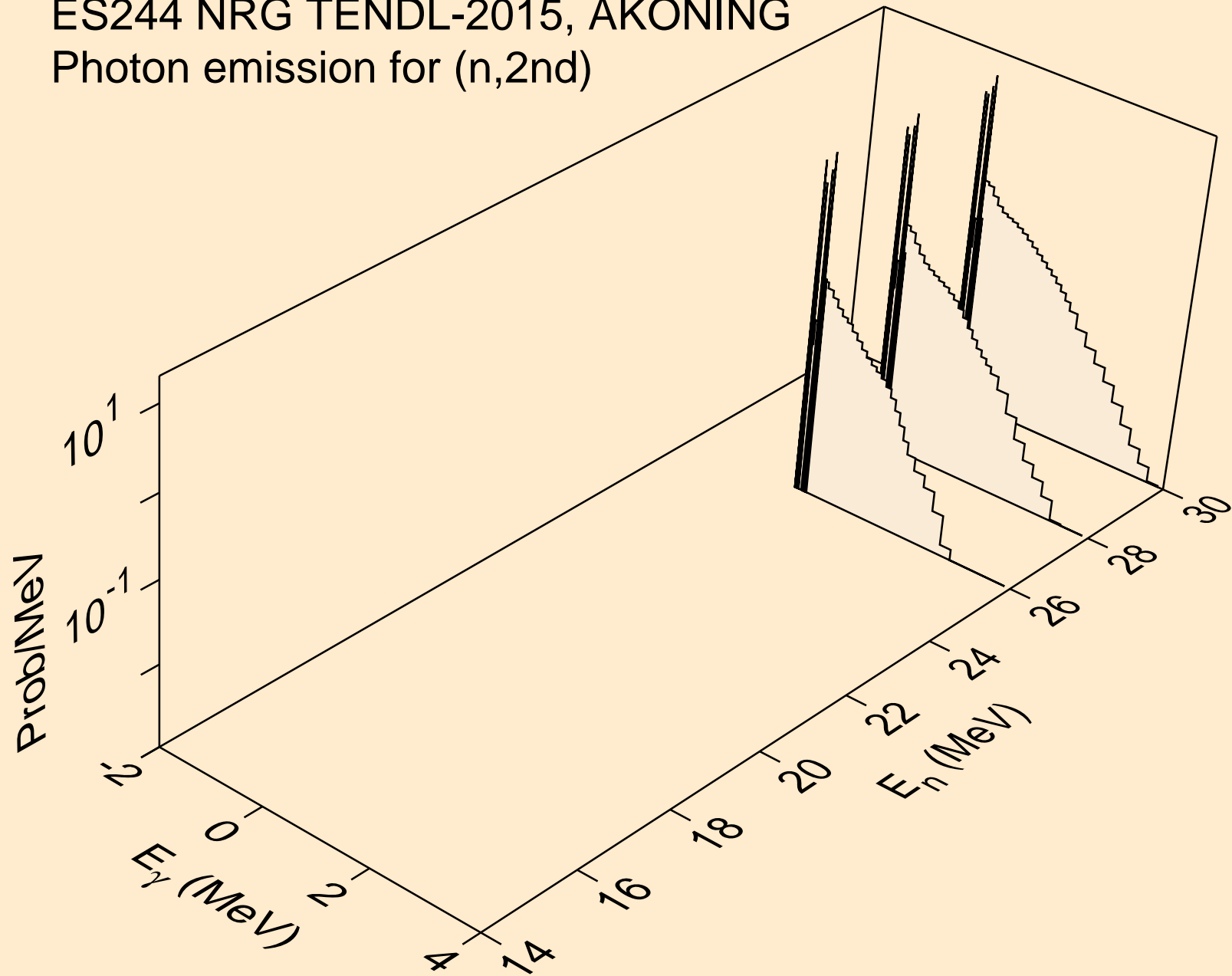
## Delayed neutron spectra



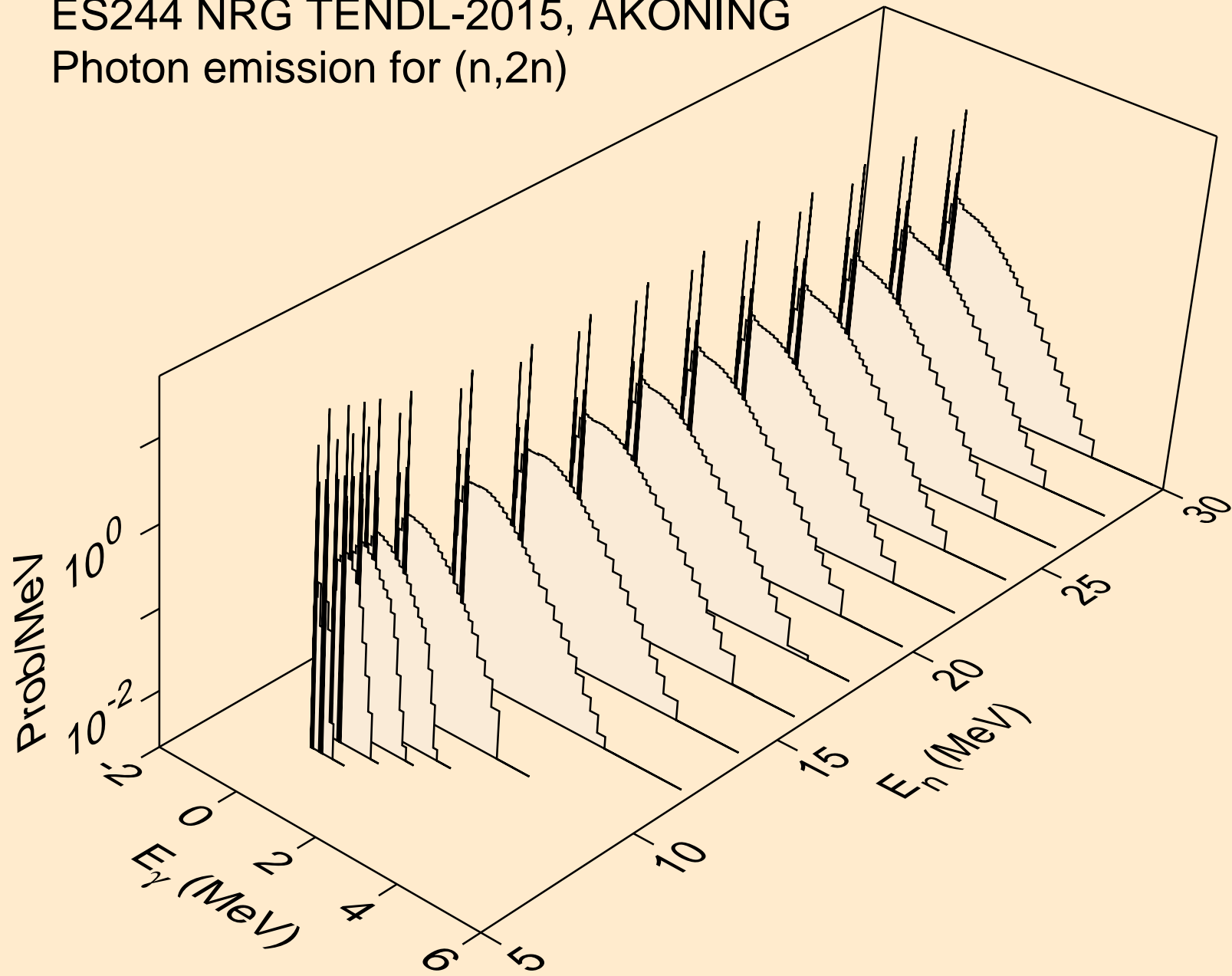
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,x)



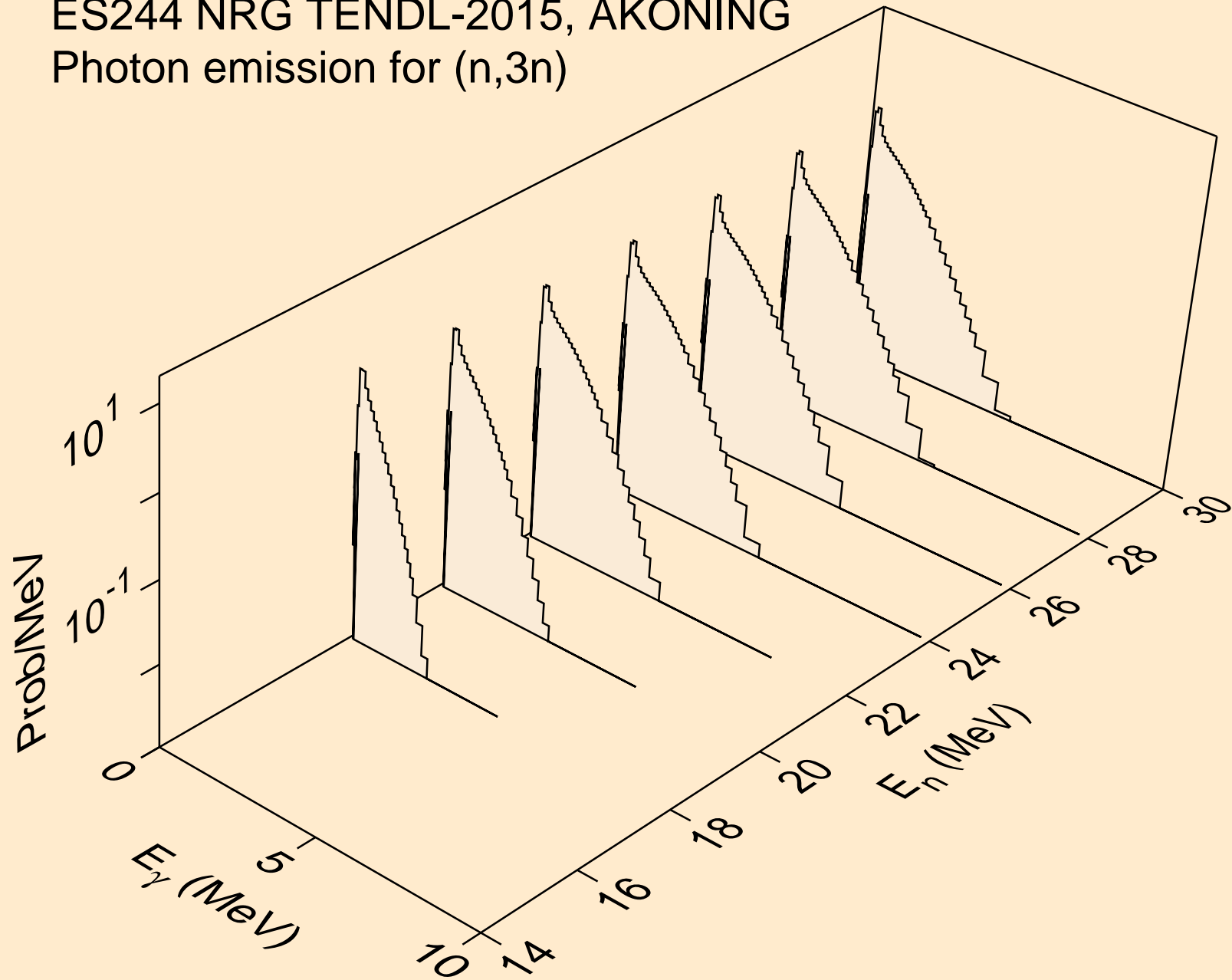
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,2nd)



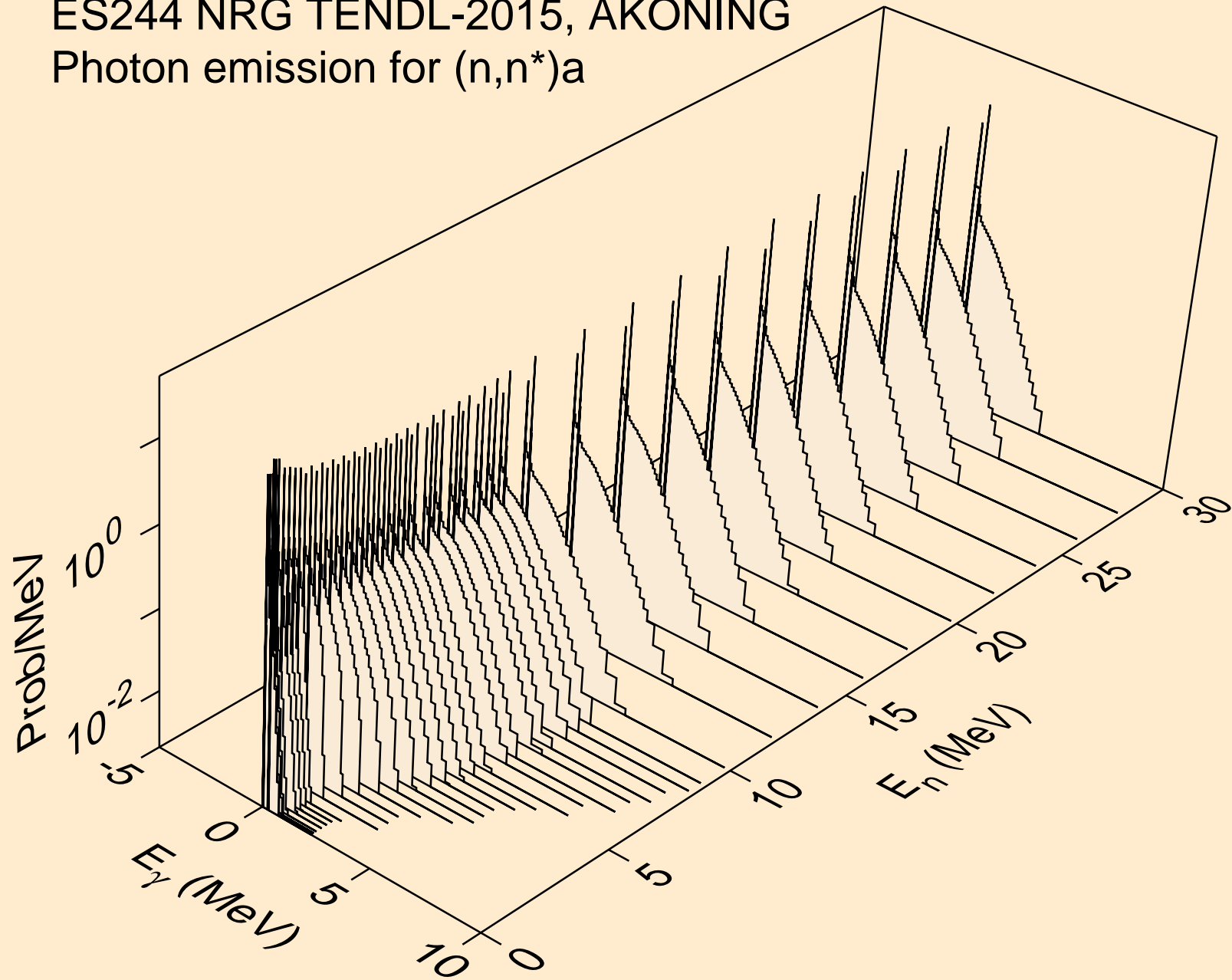
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)



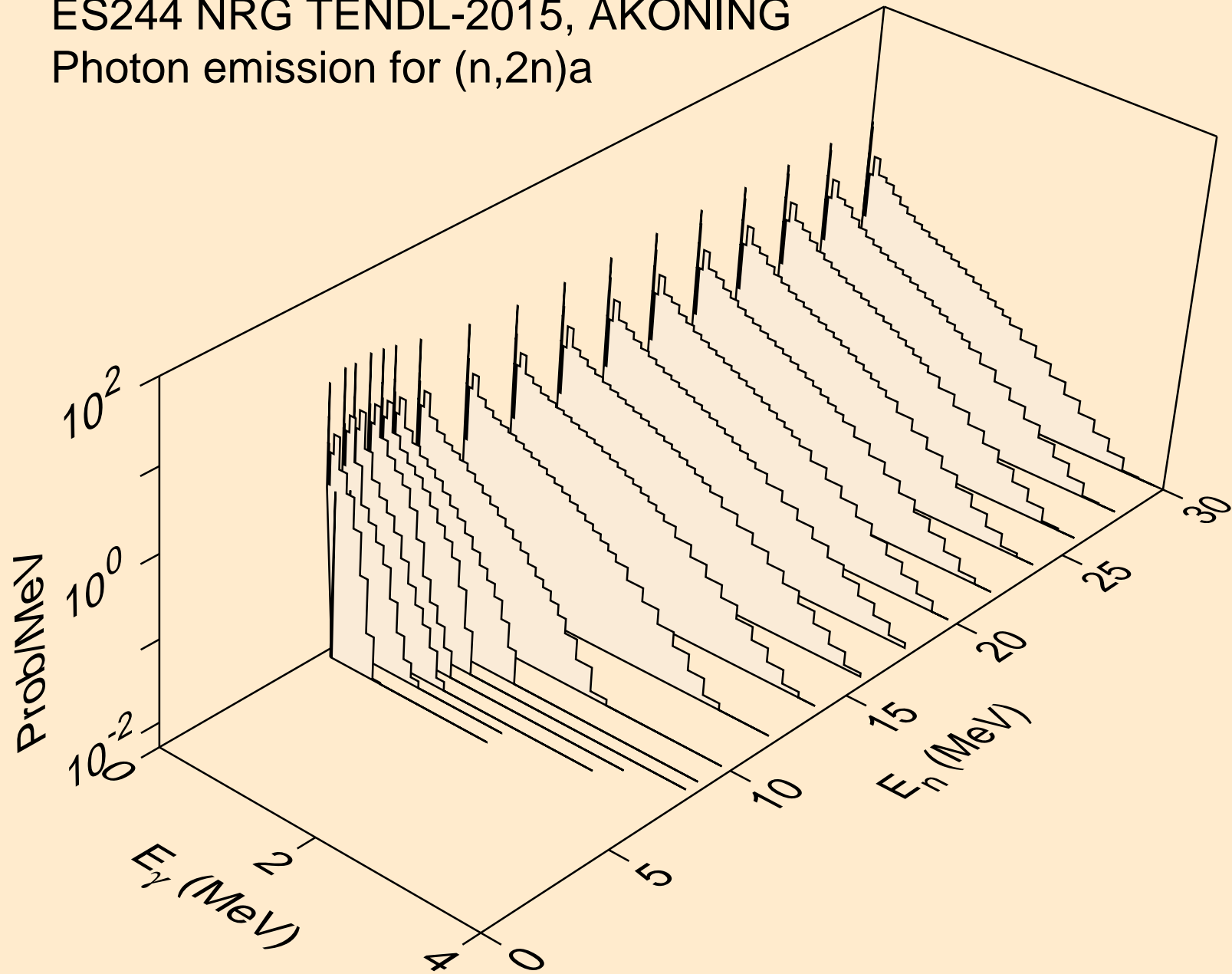
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)



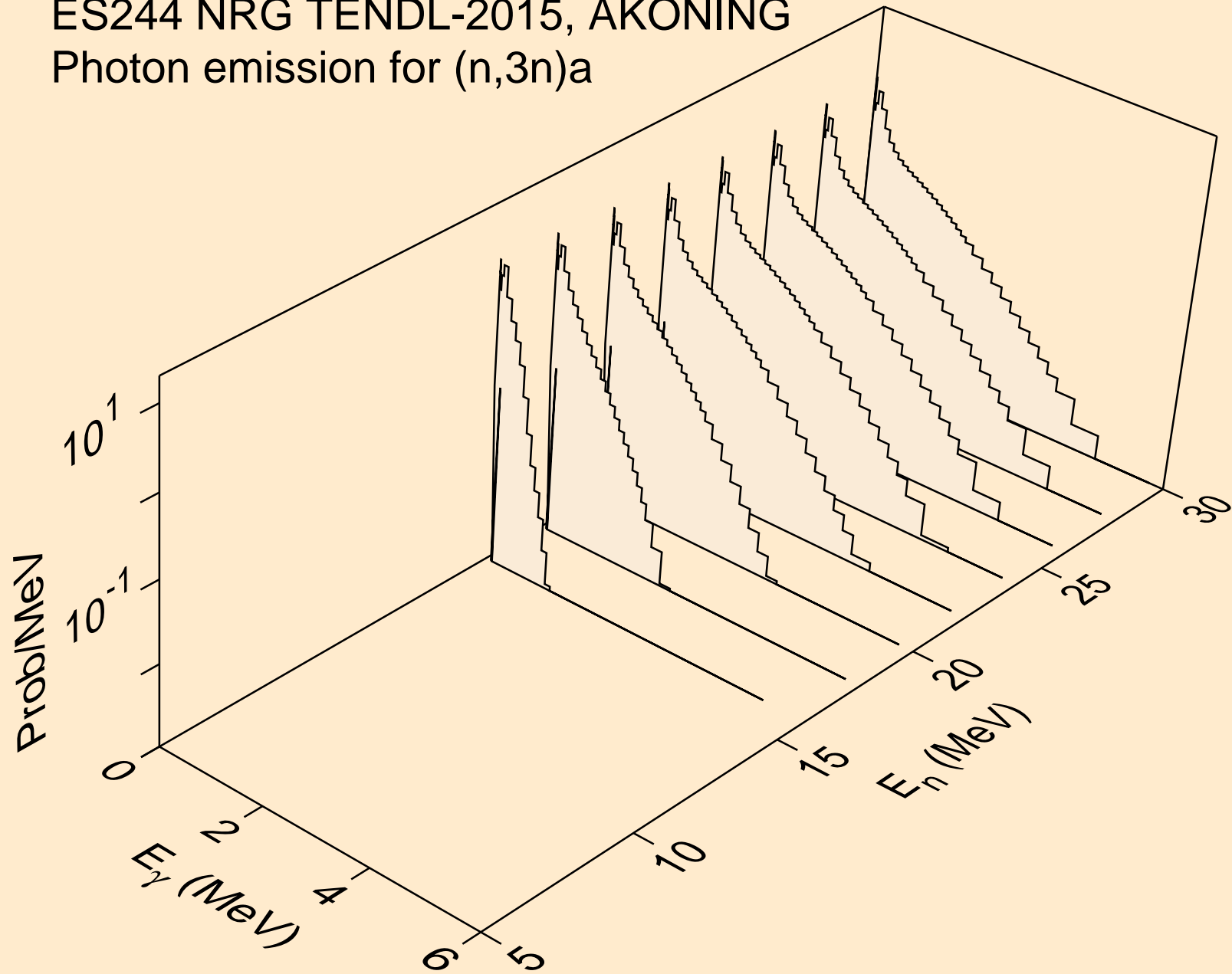
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)a



ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)a

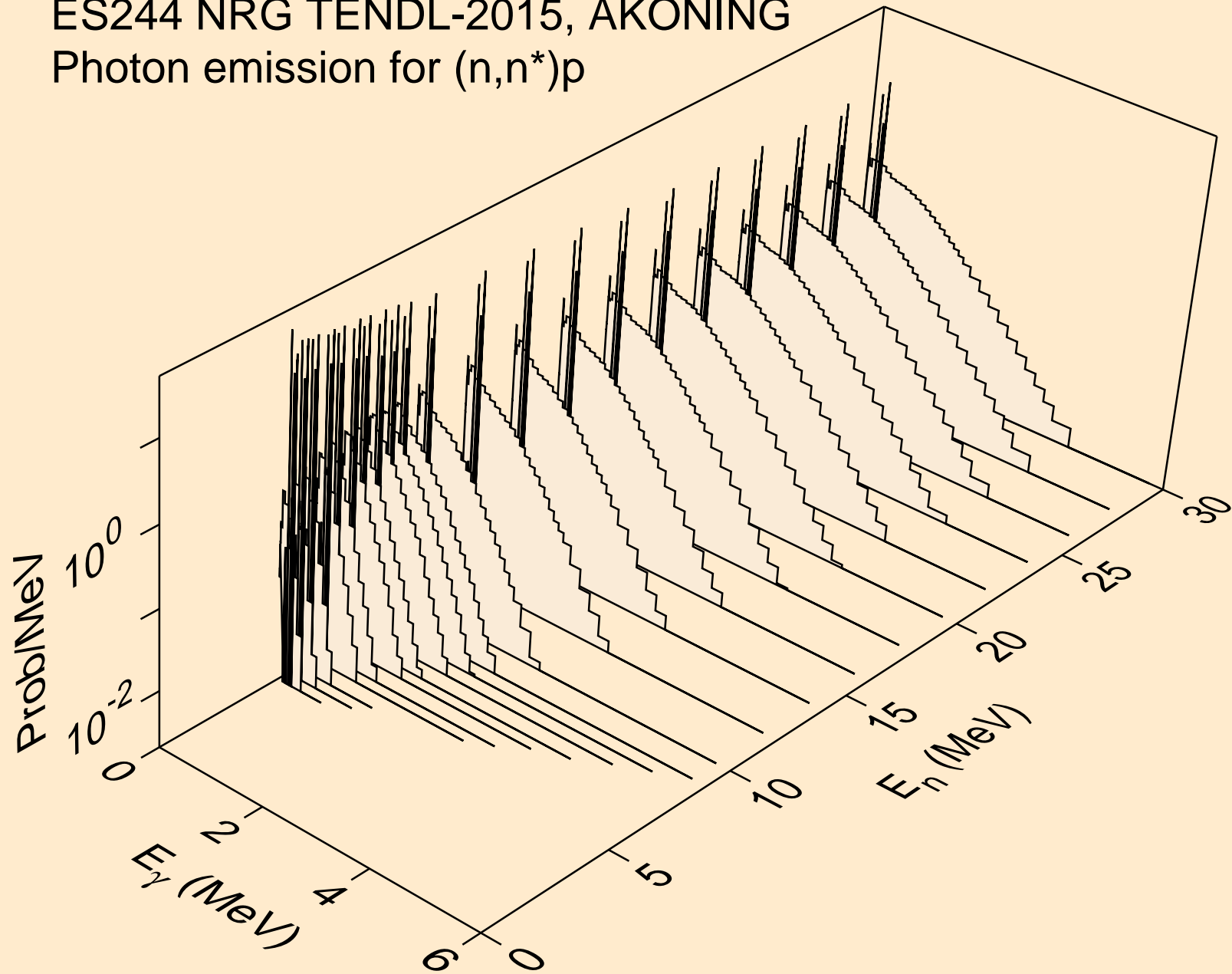


ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)a

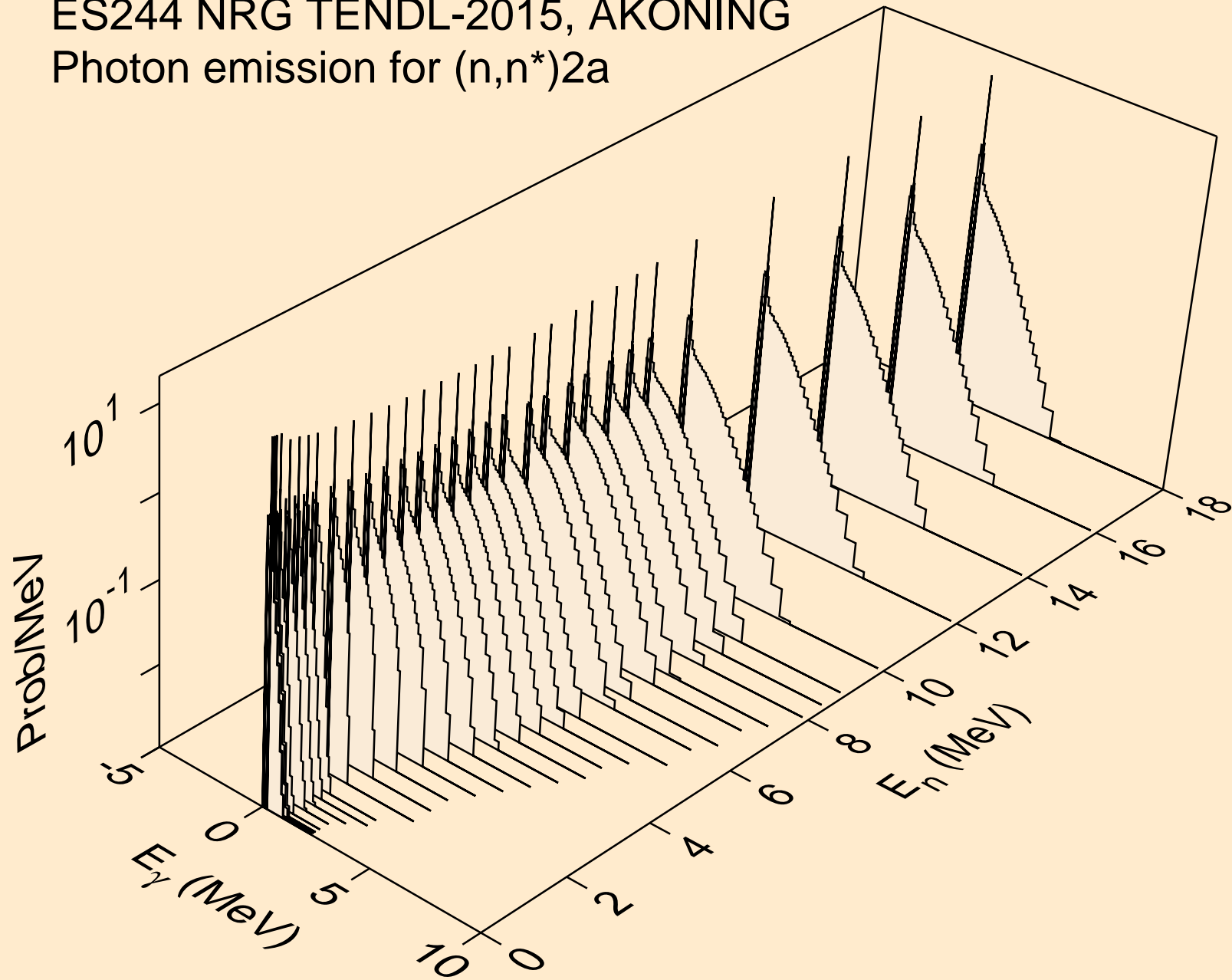




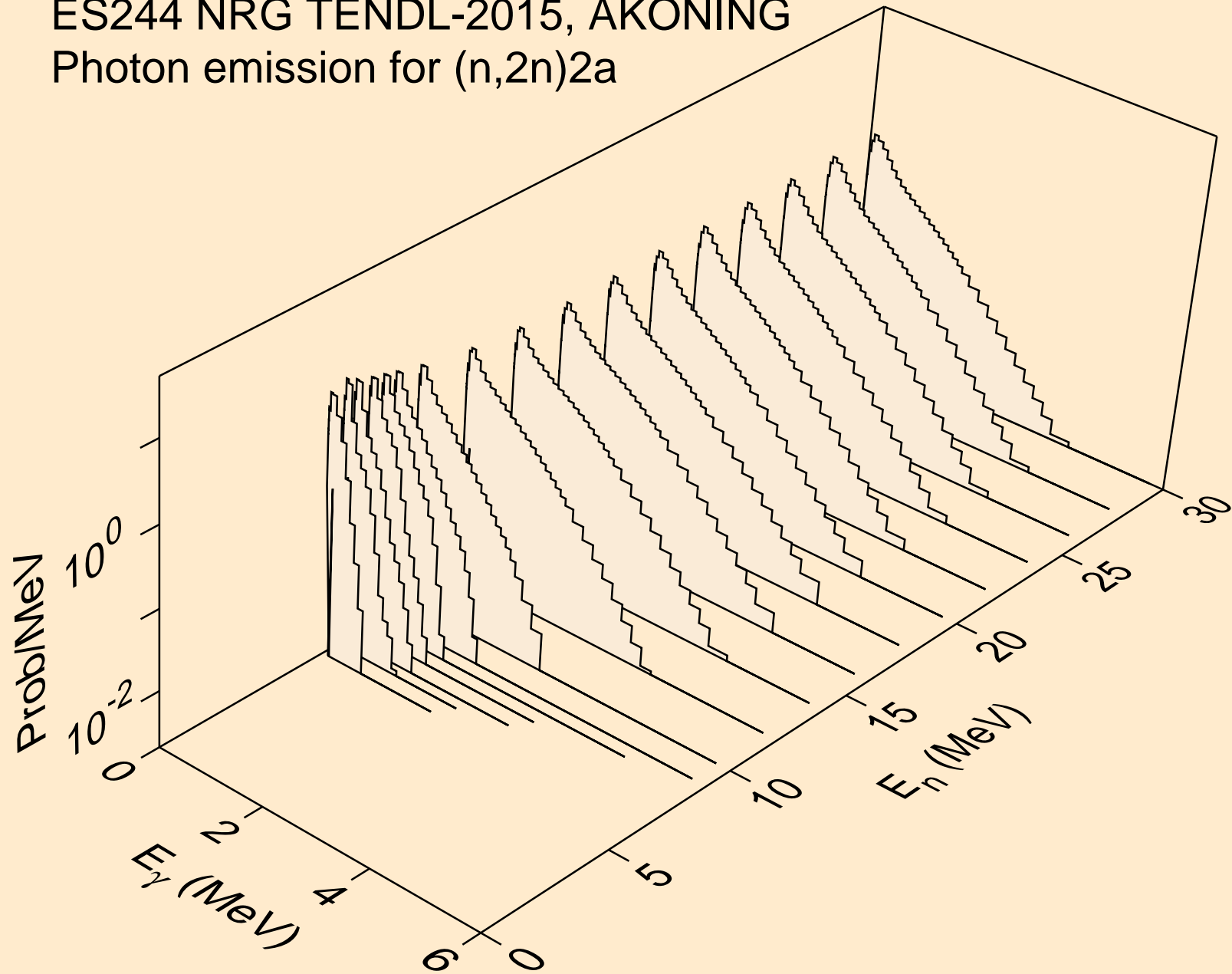
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)p



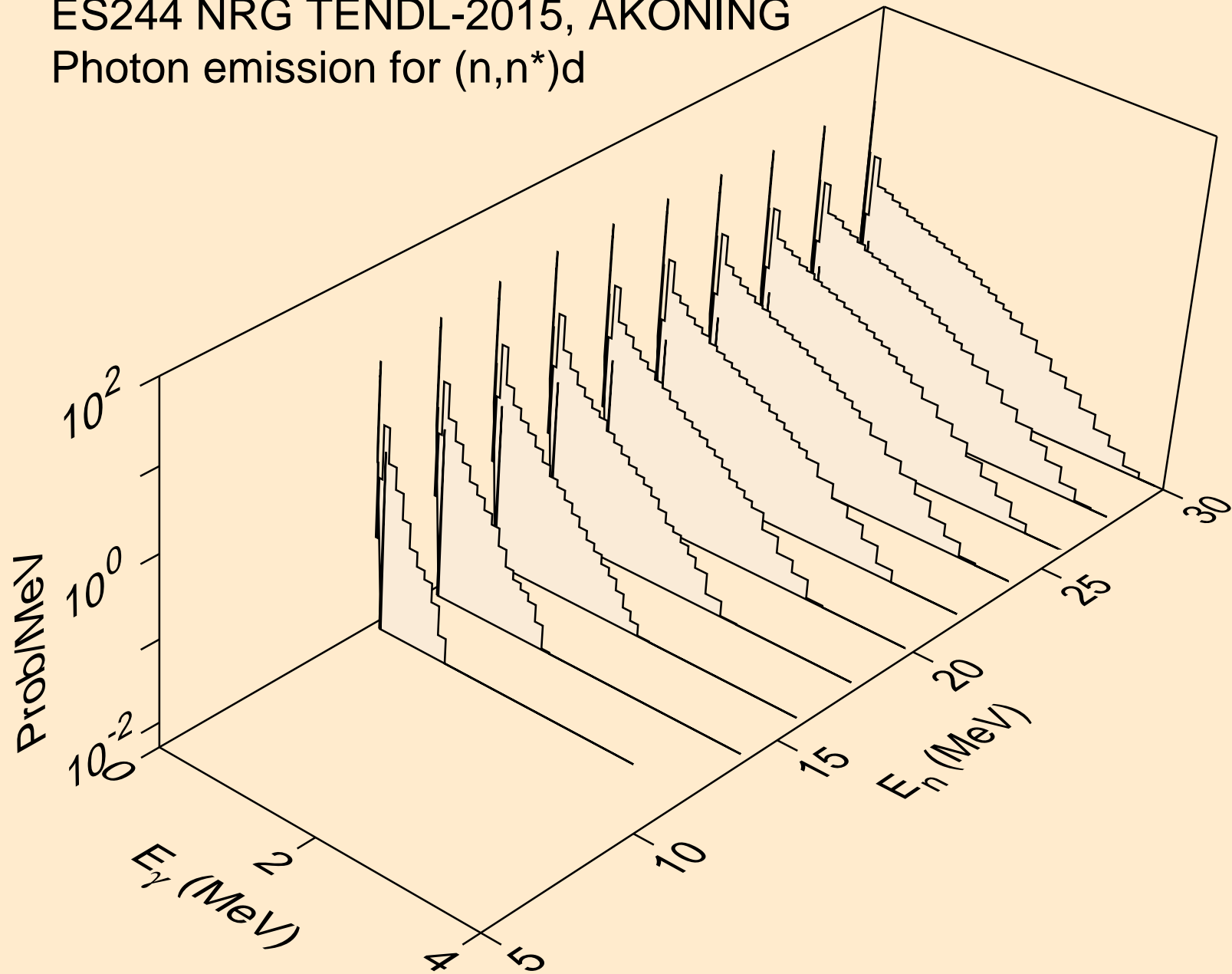
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)2a



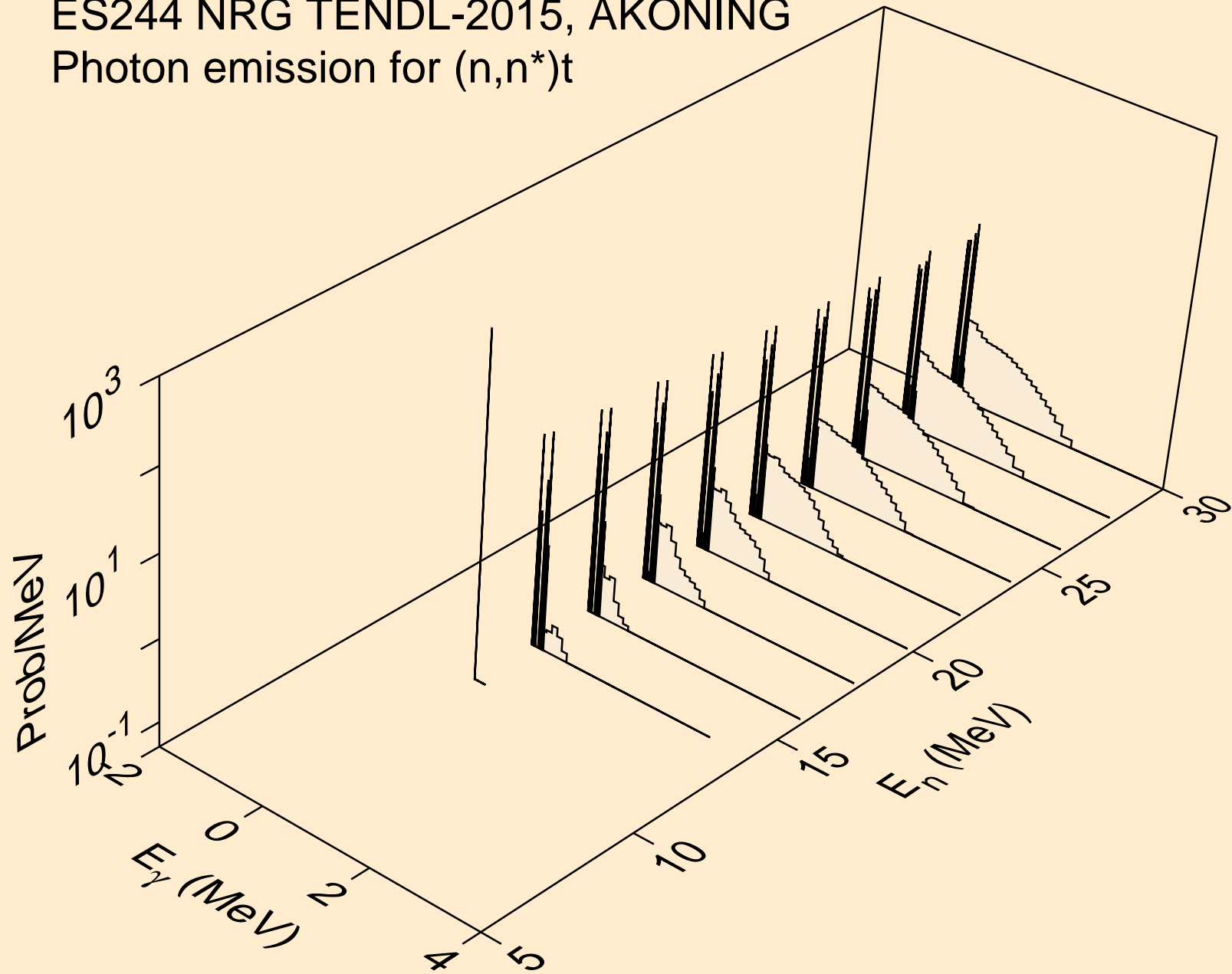
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)2a



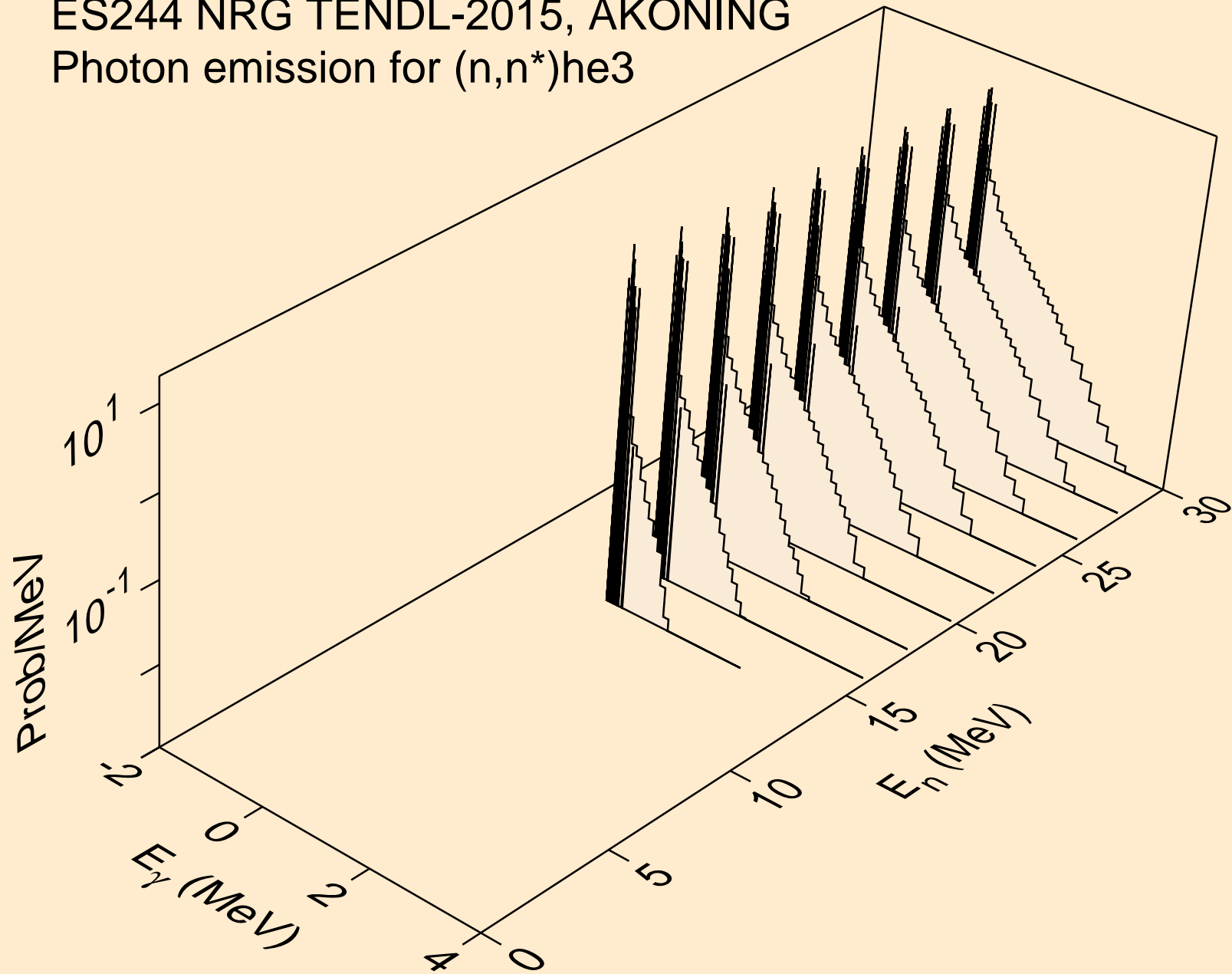
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d



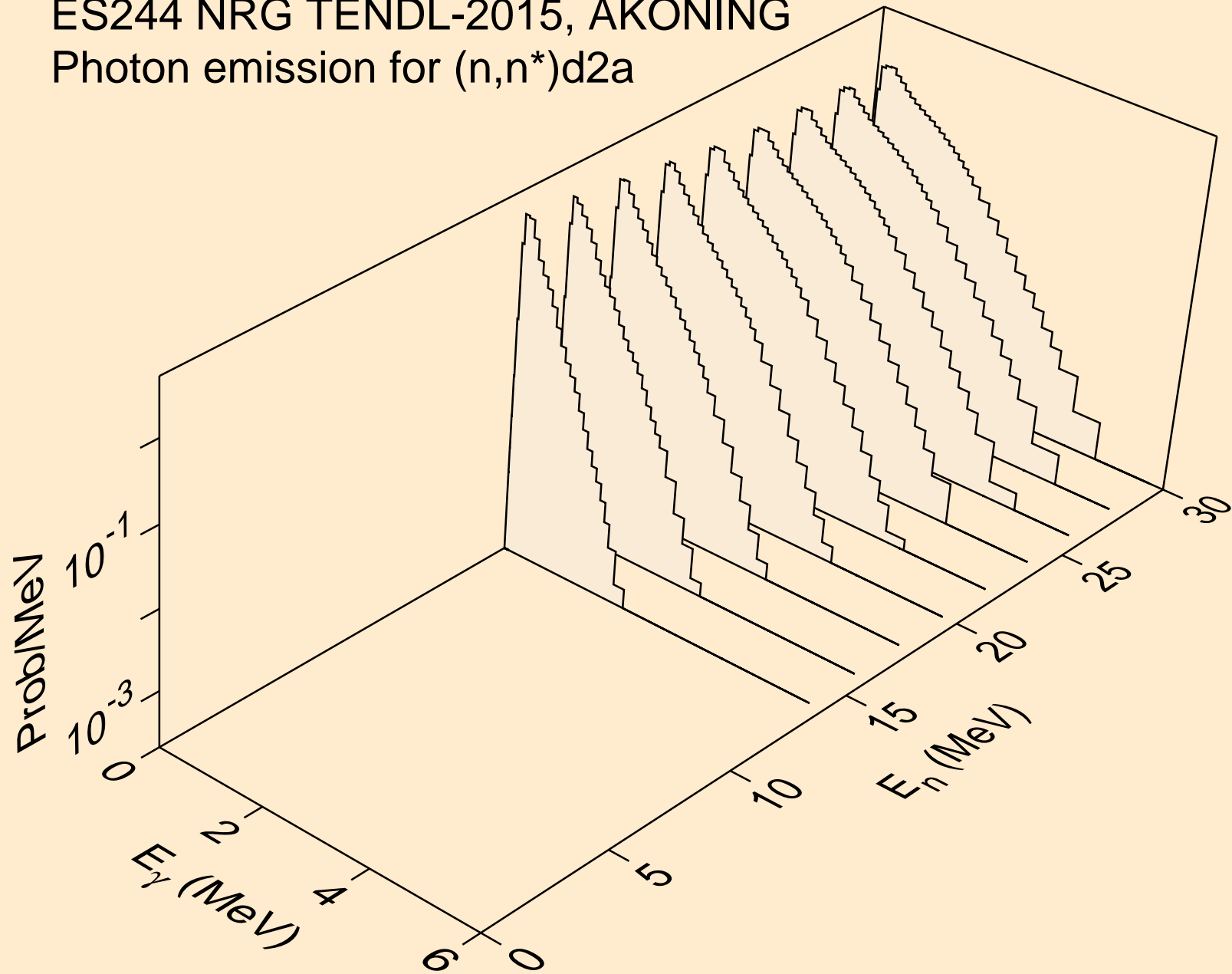
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t



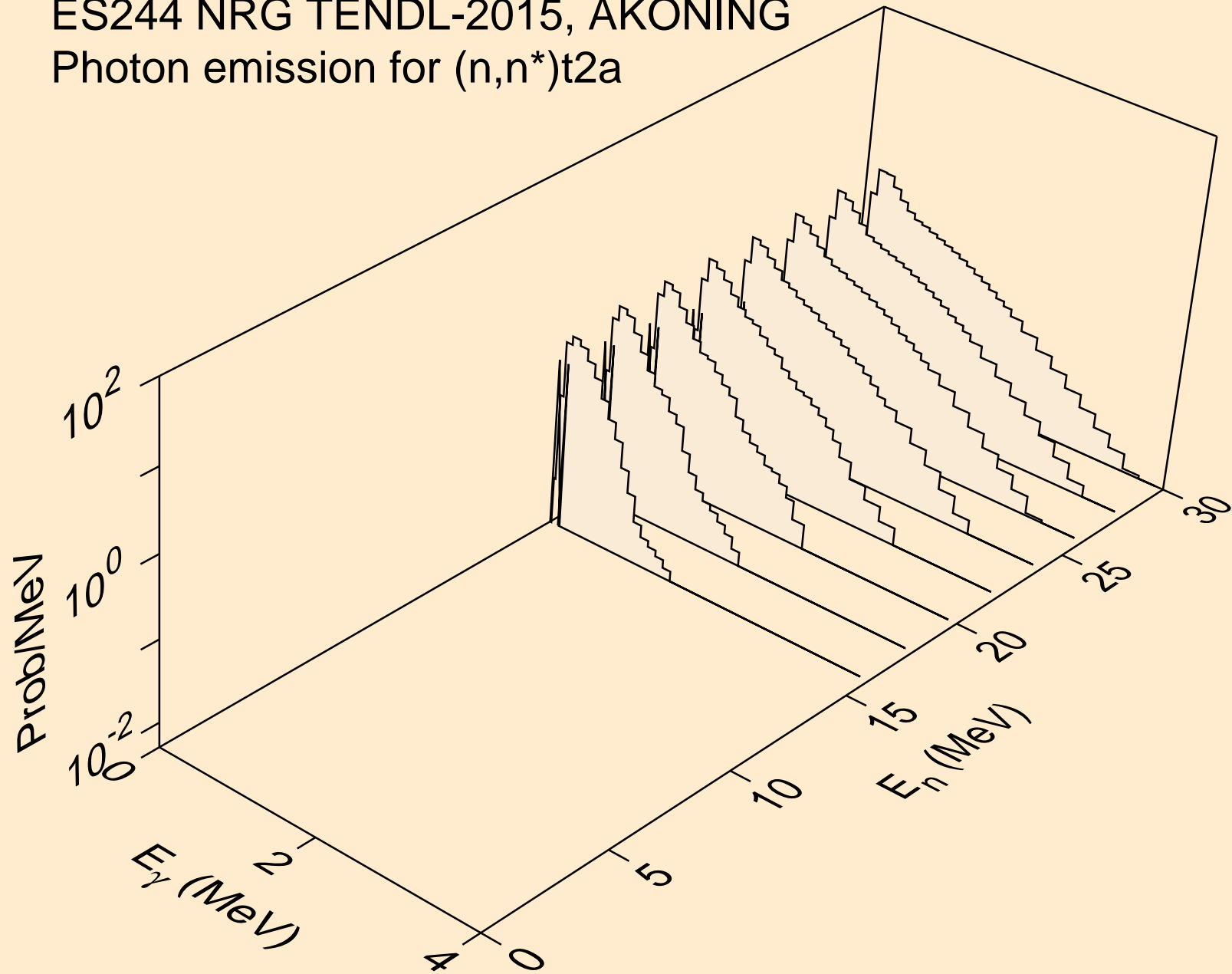
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)he3



ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d2a

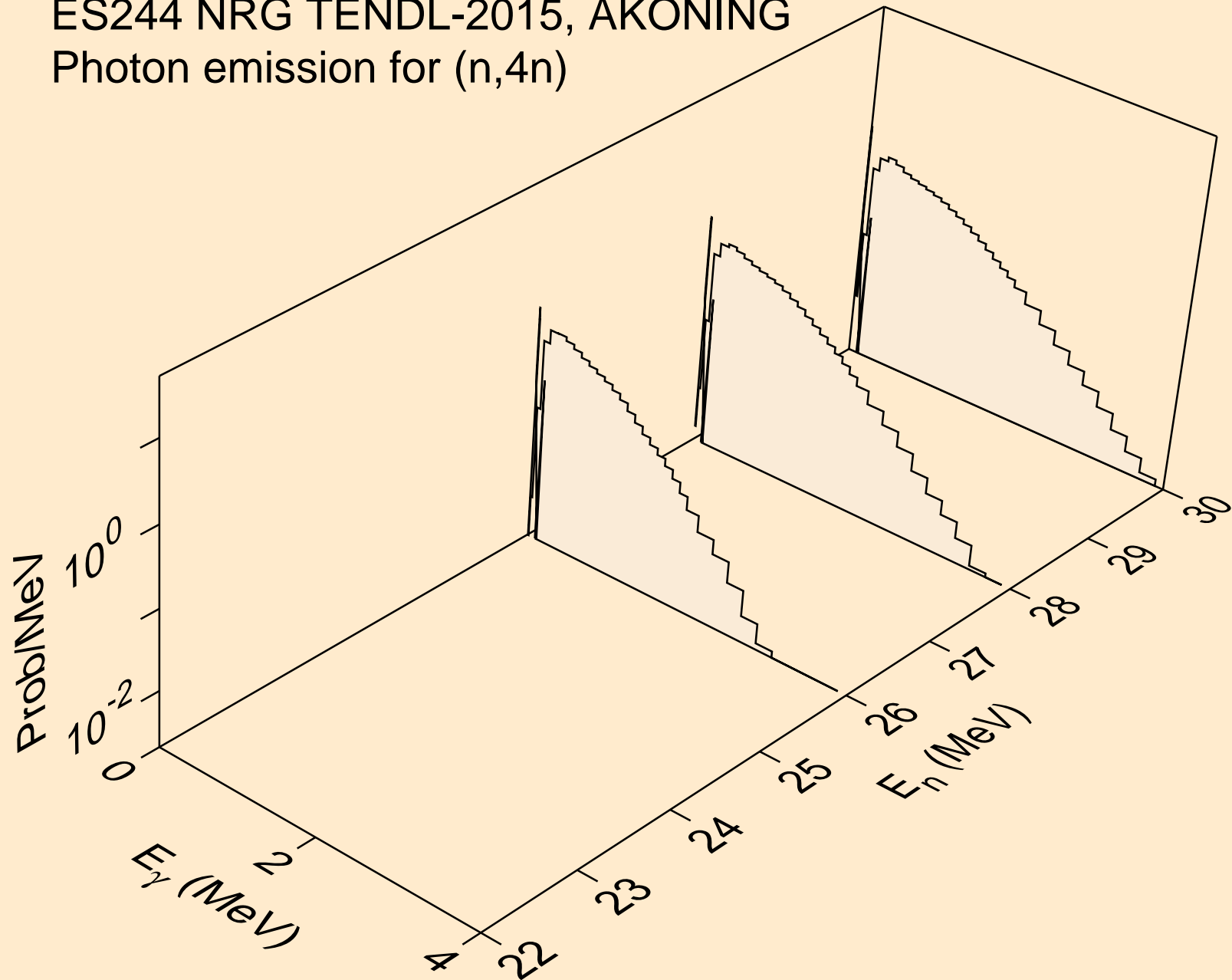


ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t2a

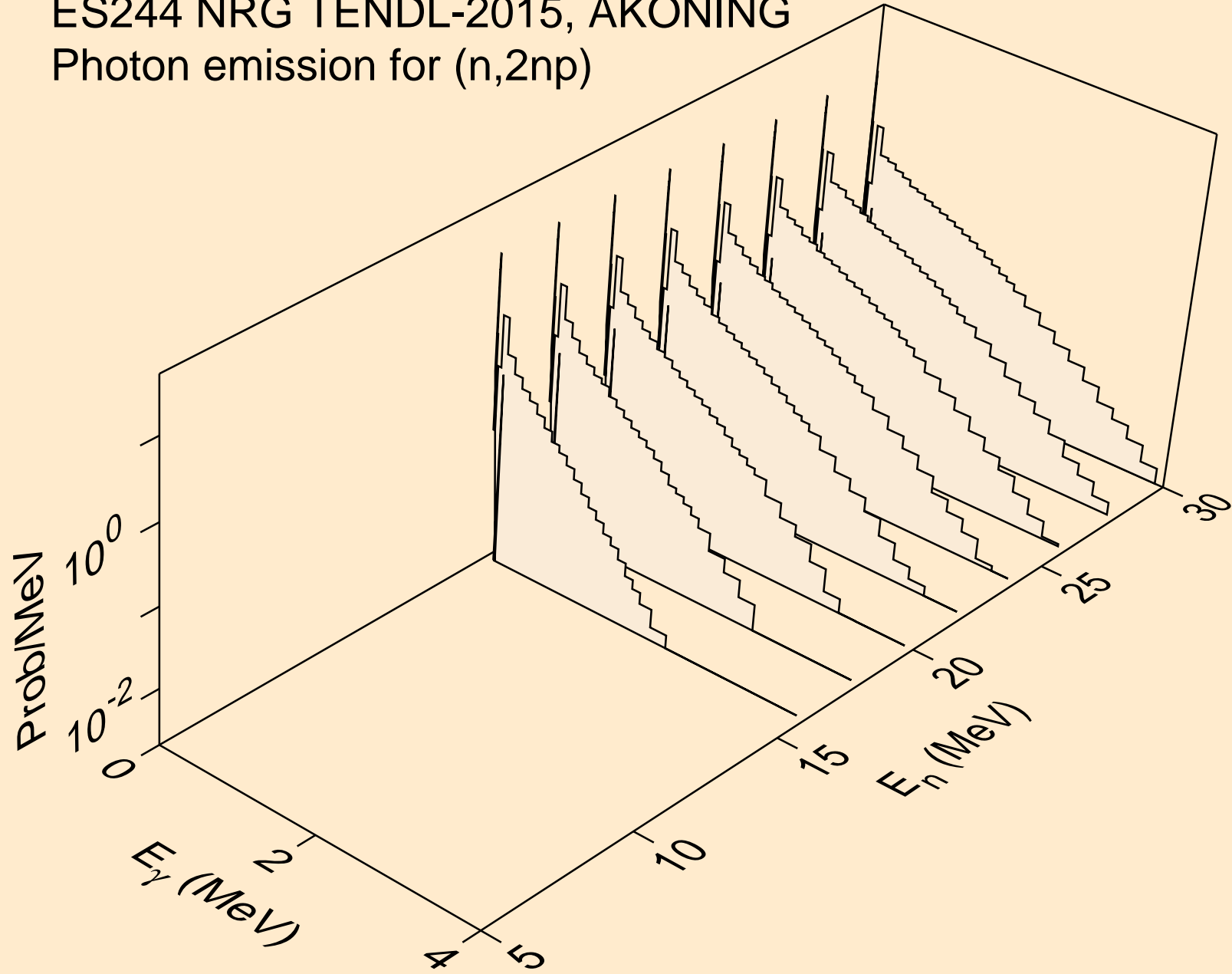




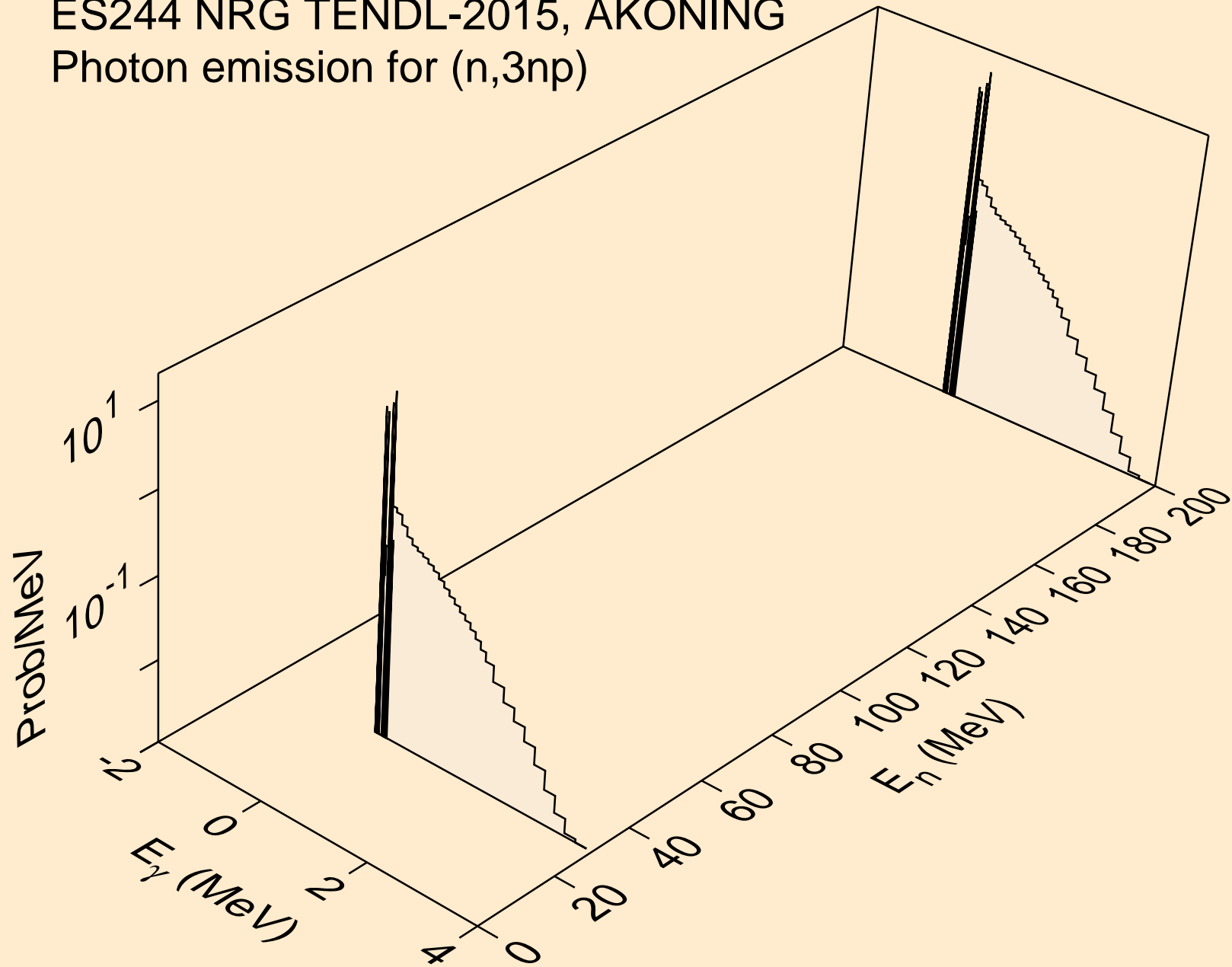
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,4n)



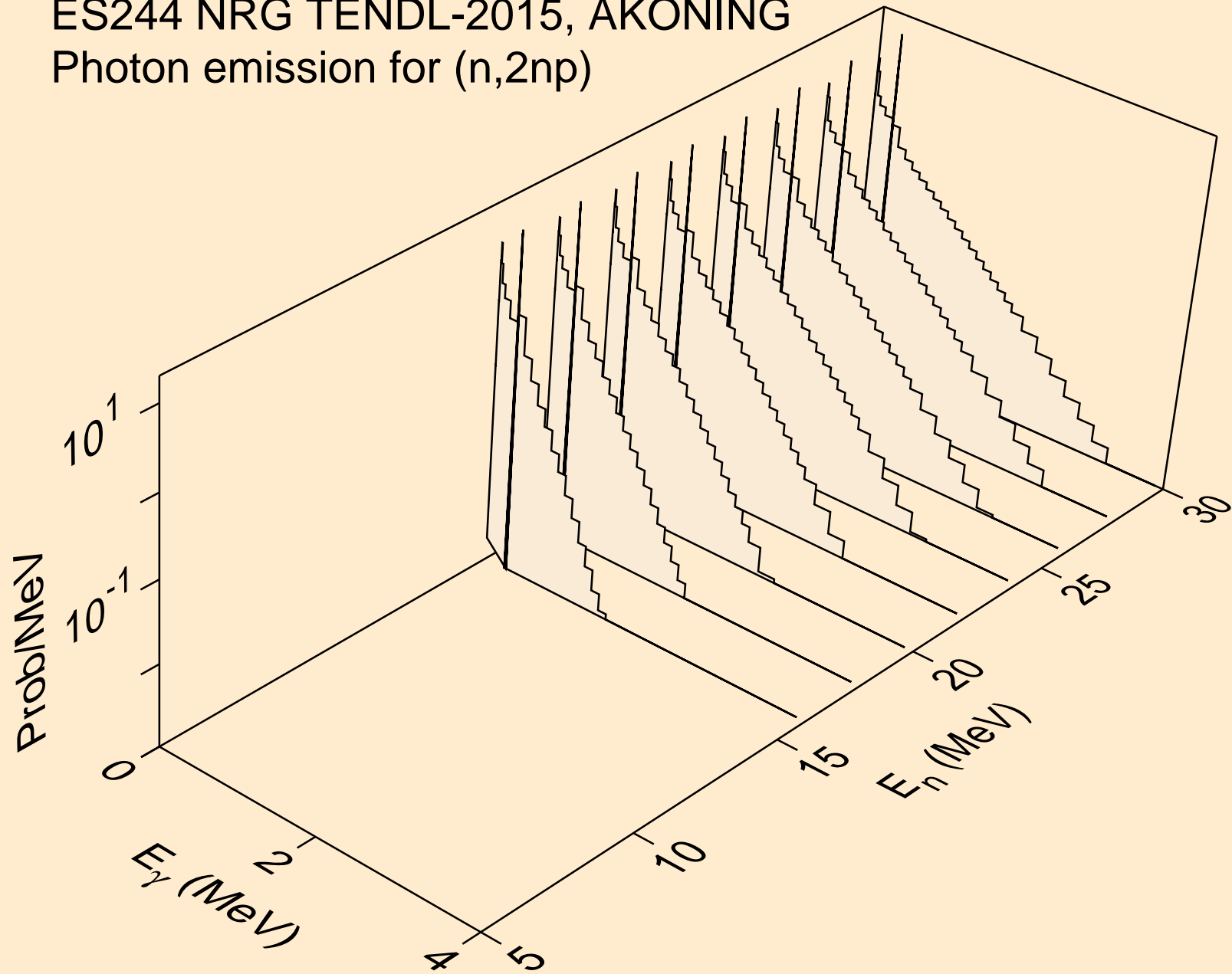
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



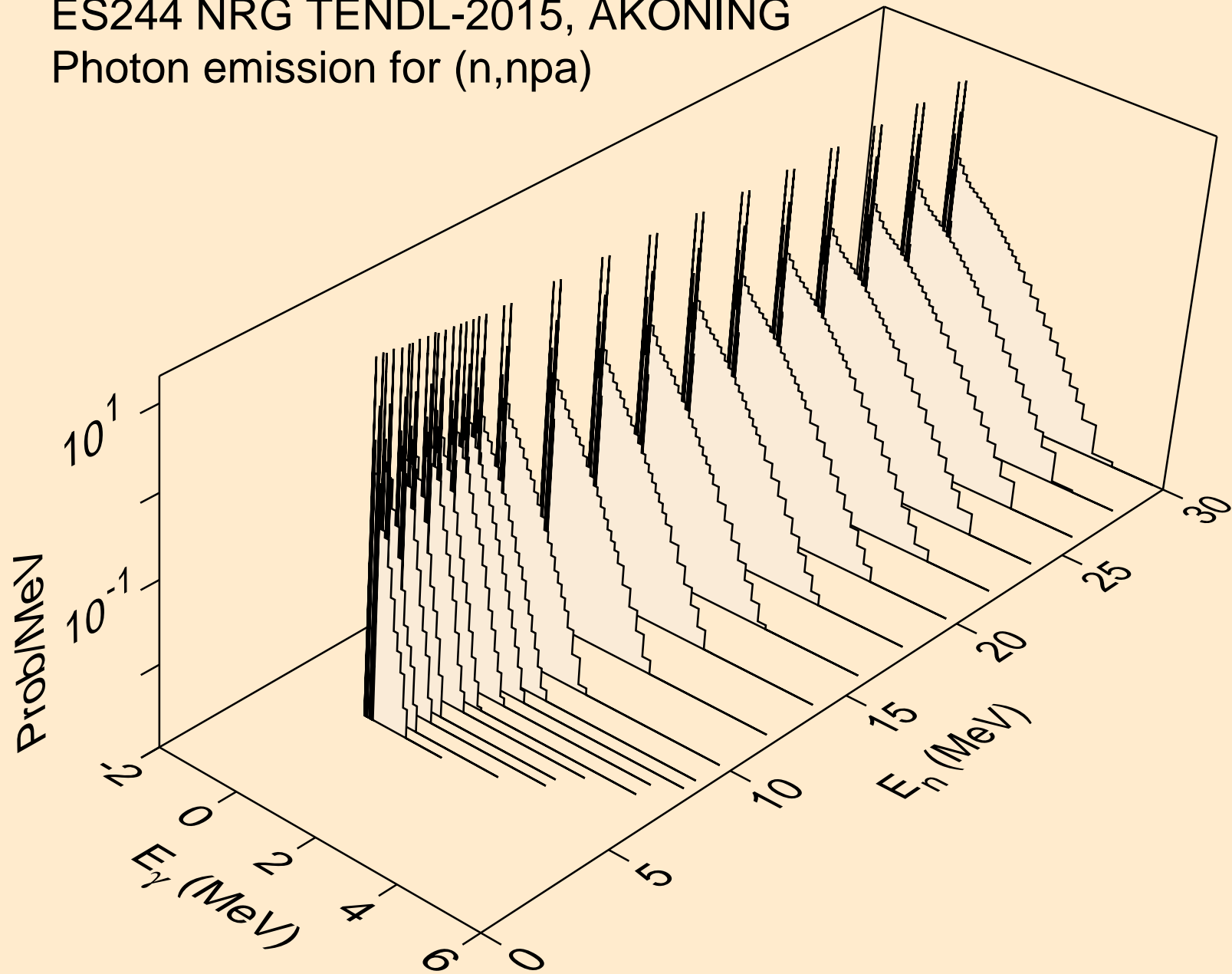
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,3np)



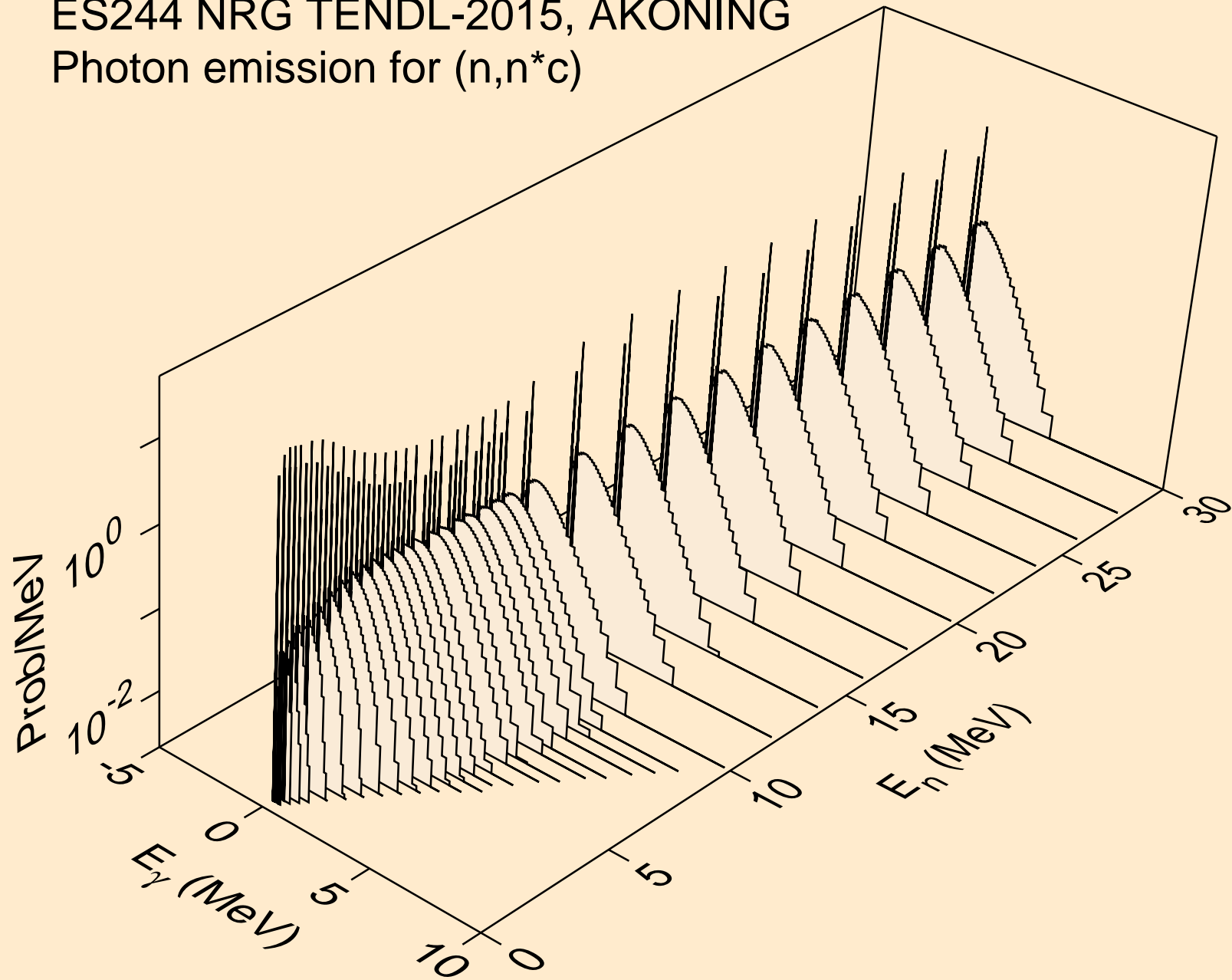
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



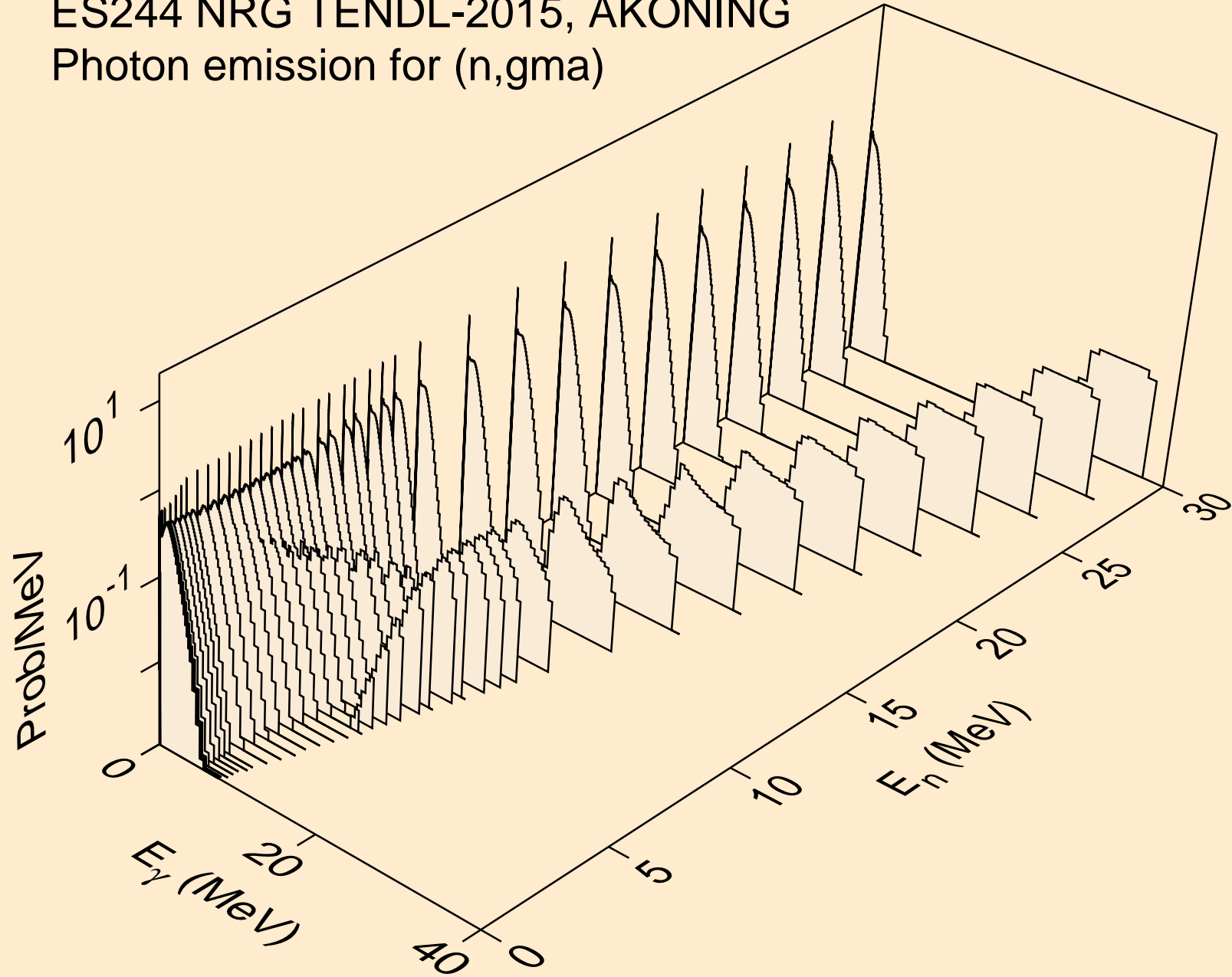
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,npa)



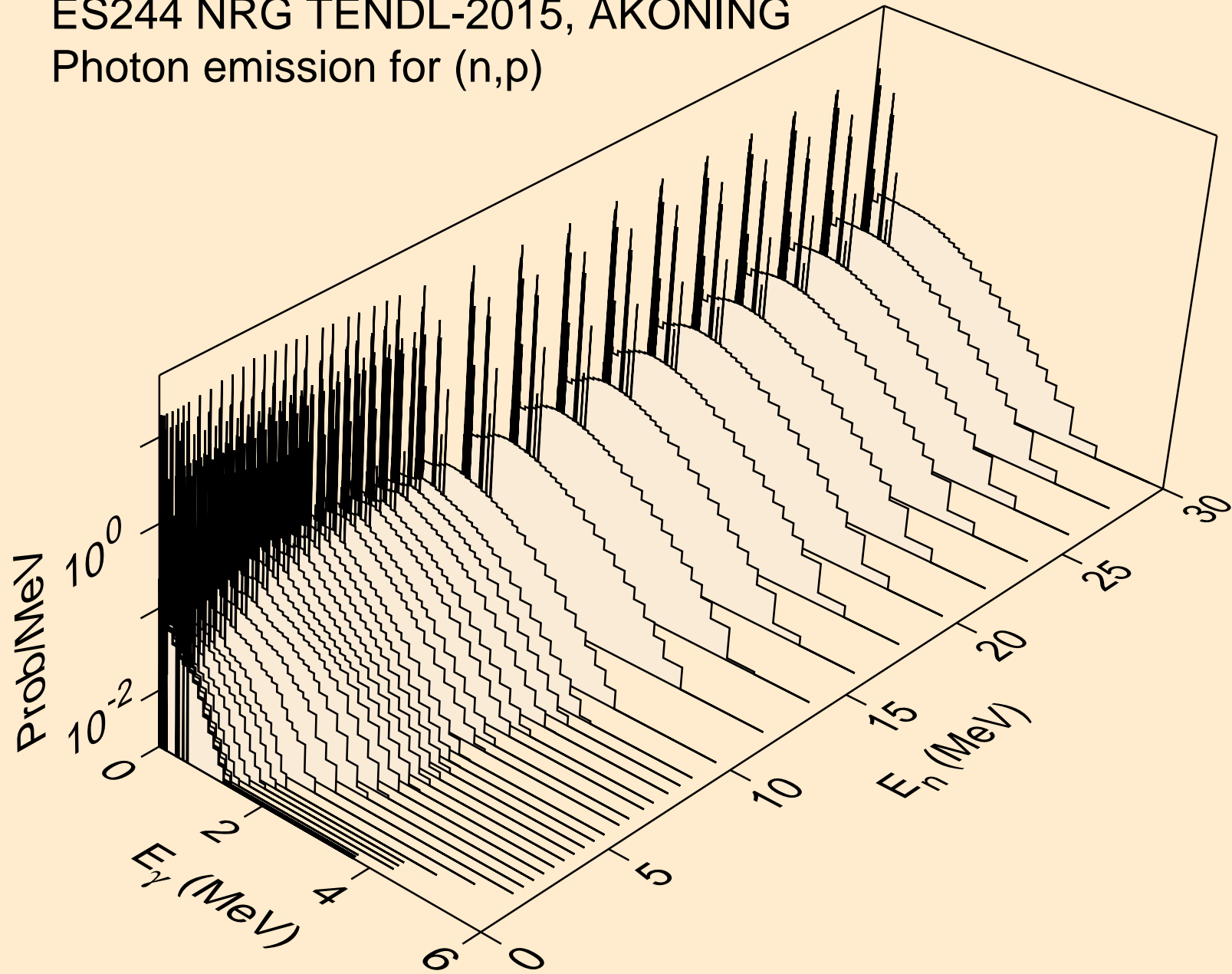
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*c)



ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,gma)

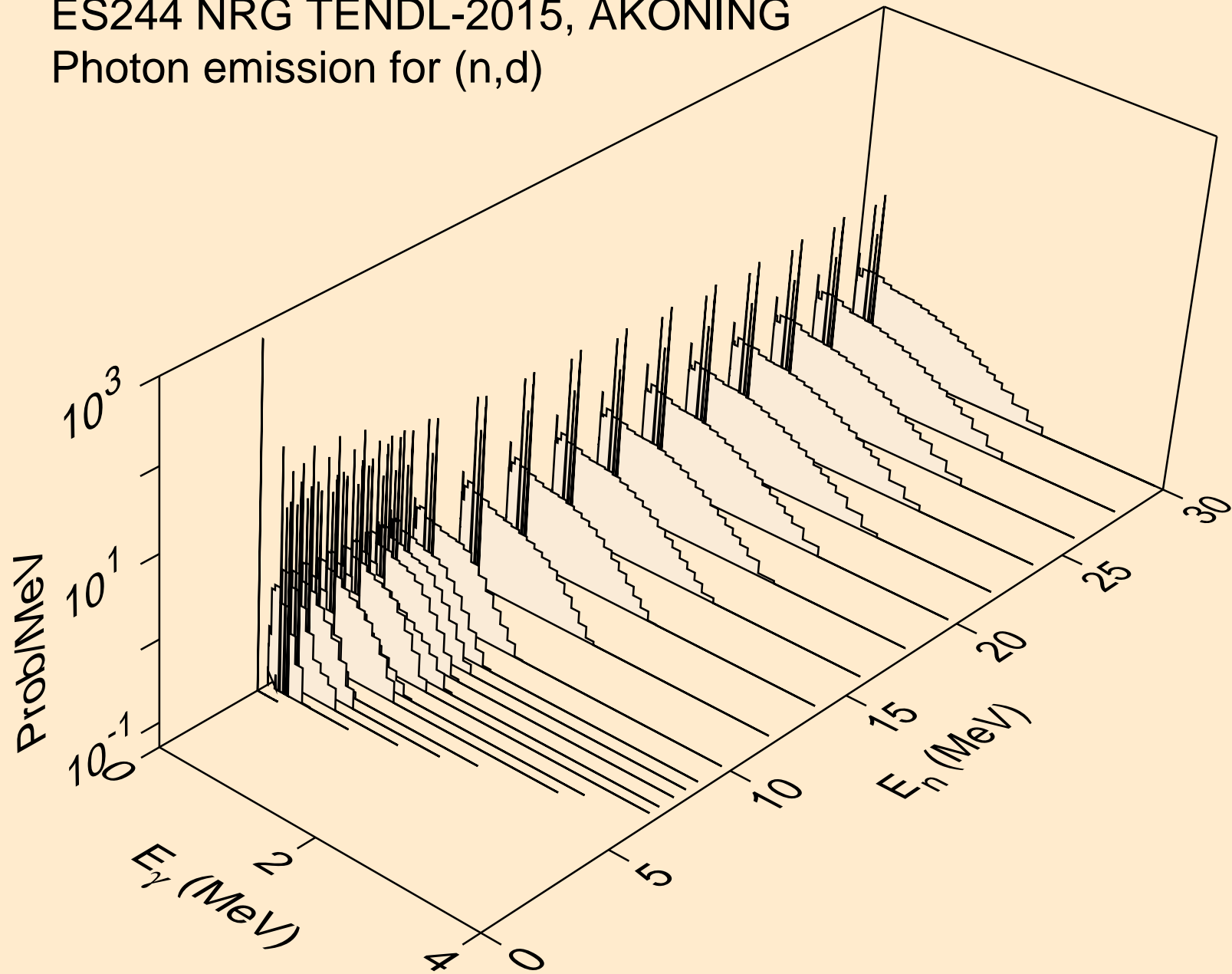


ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,p)

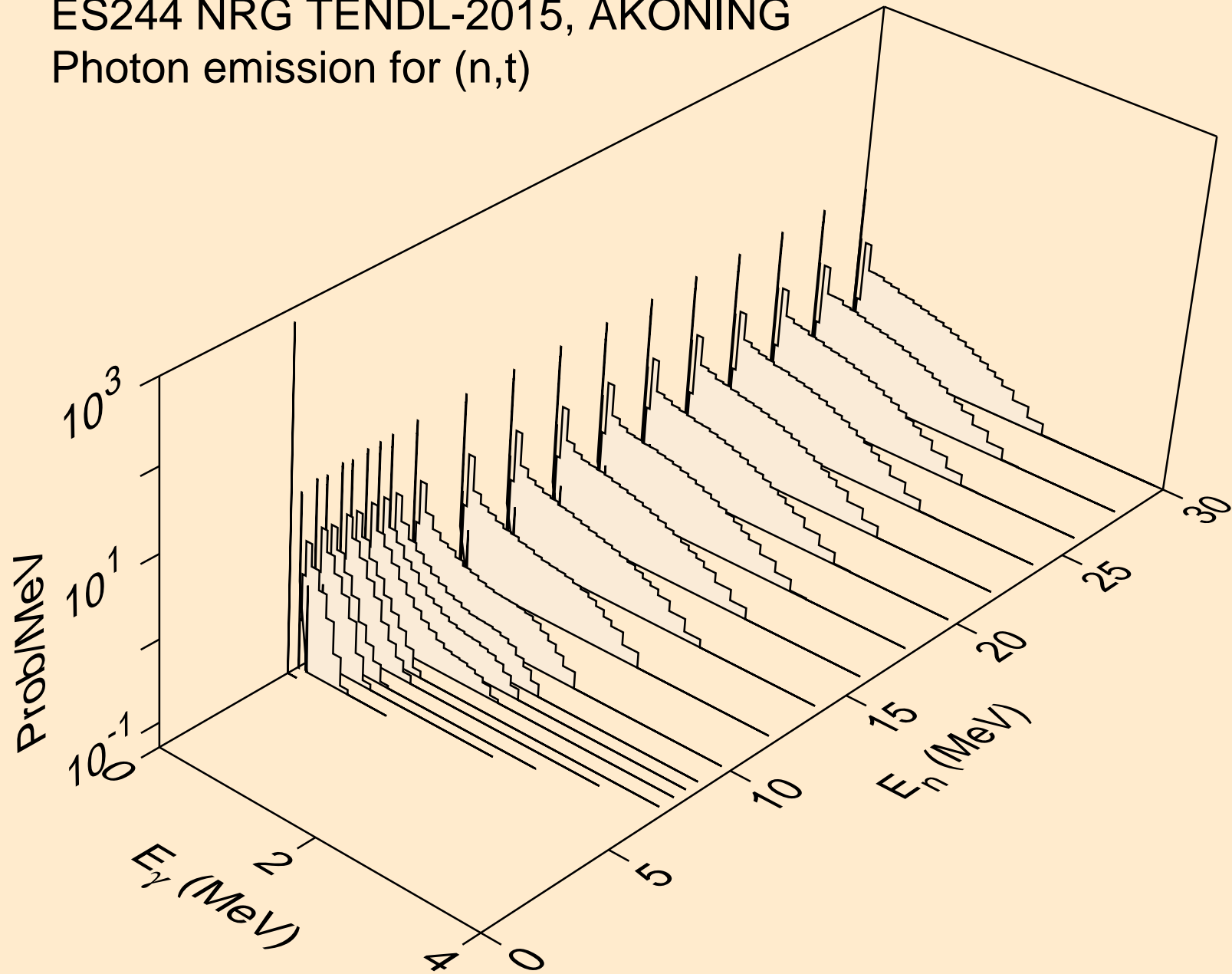




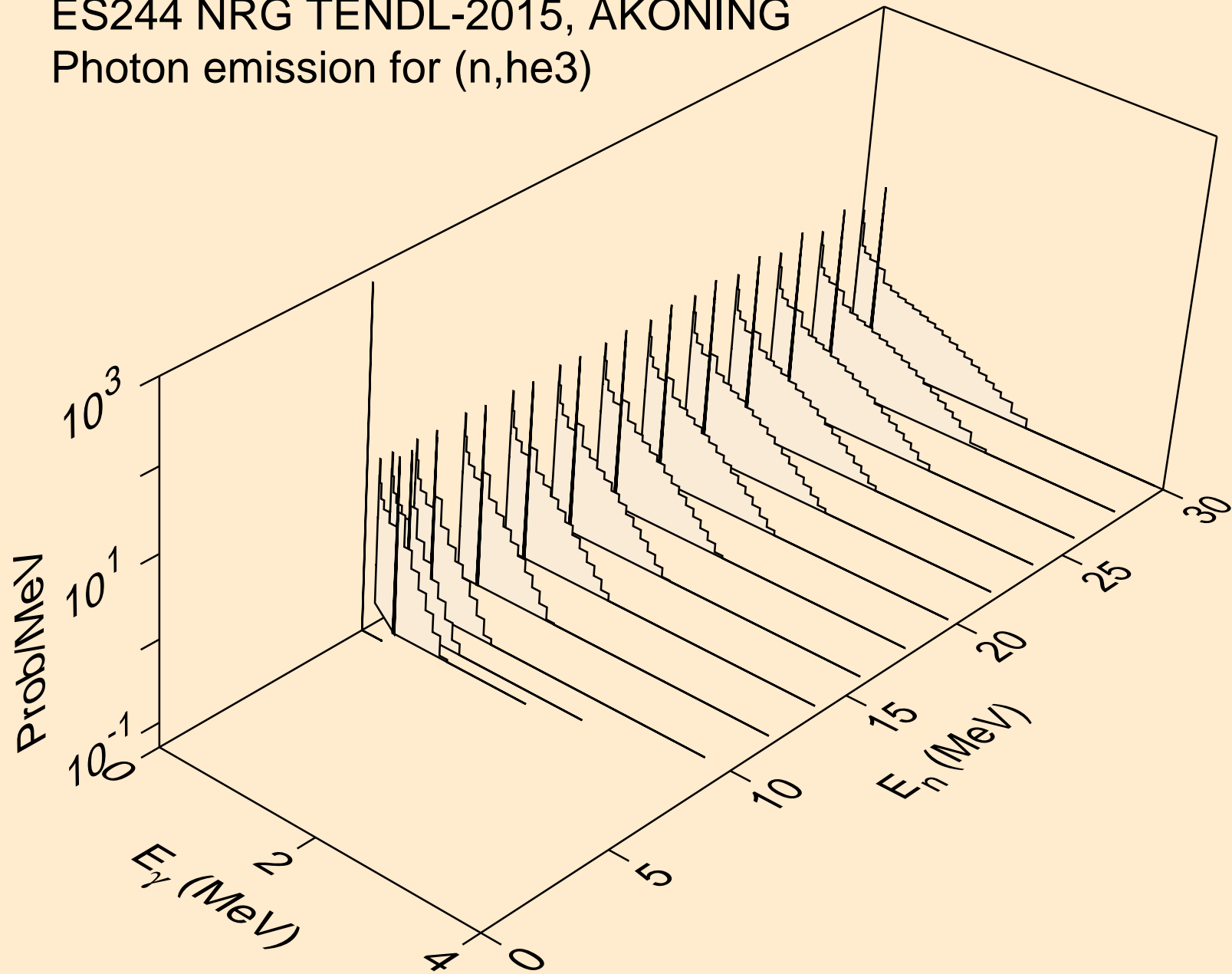
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,d)



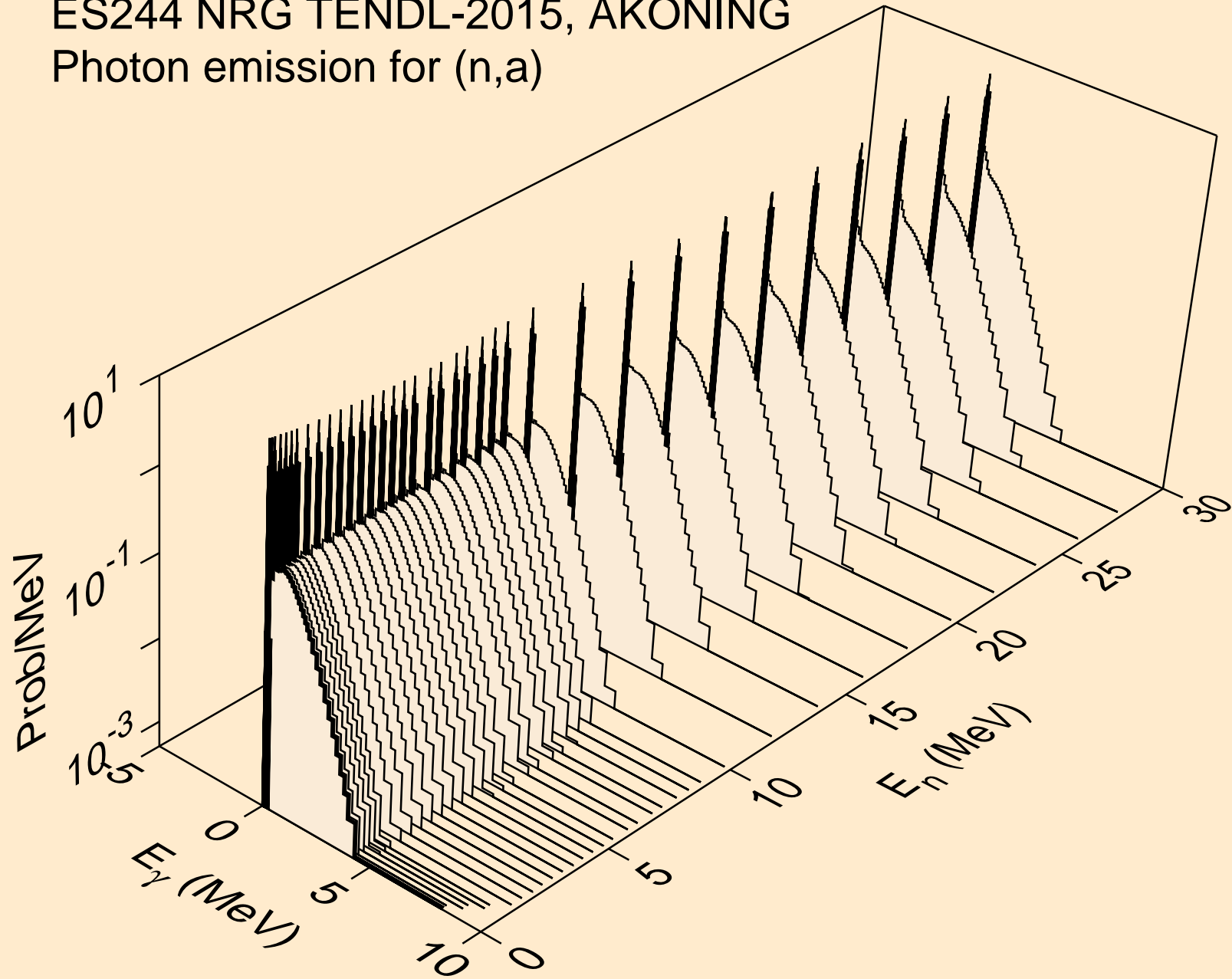
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,t)



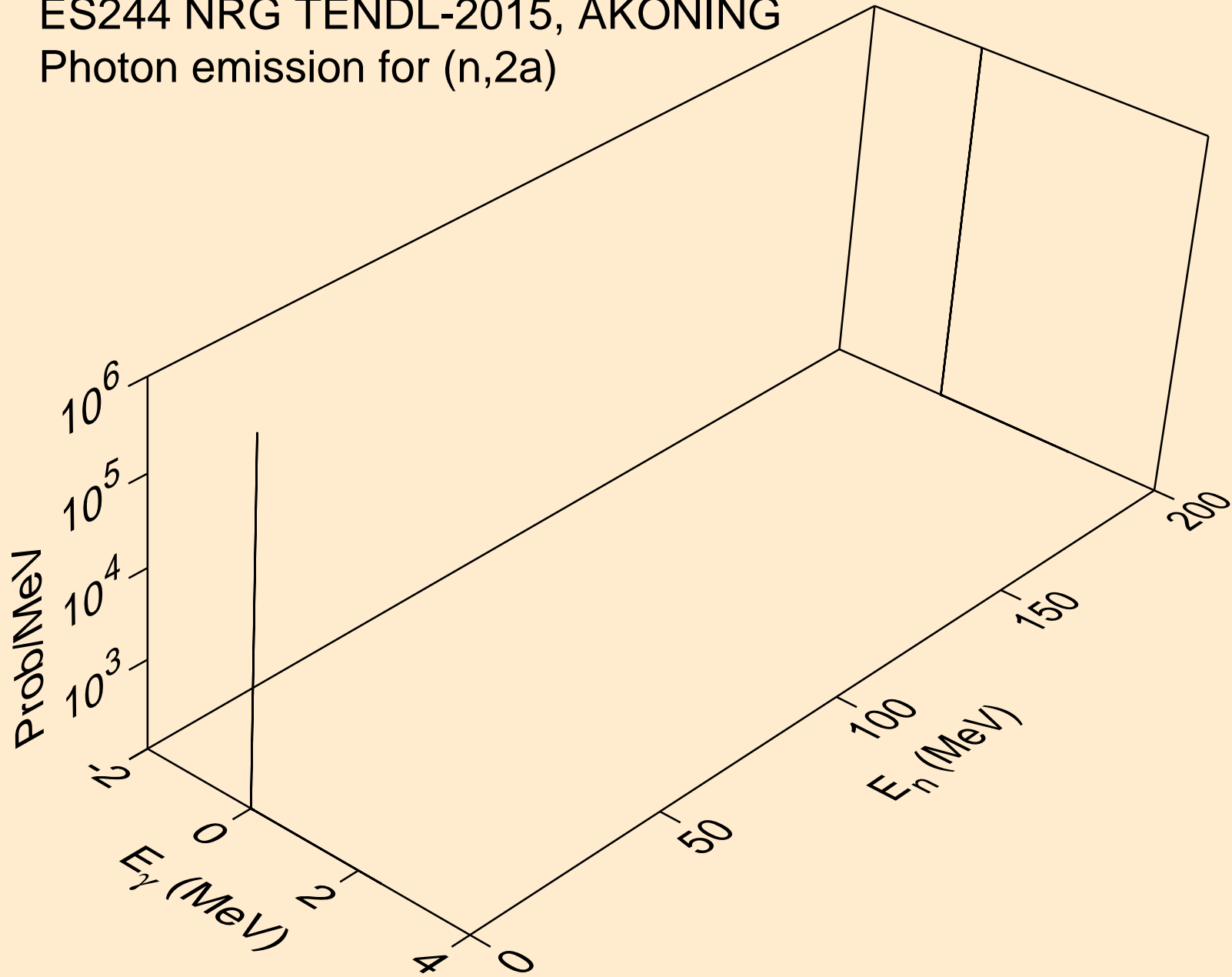
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,he3)



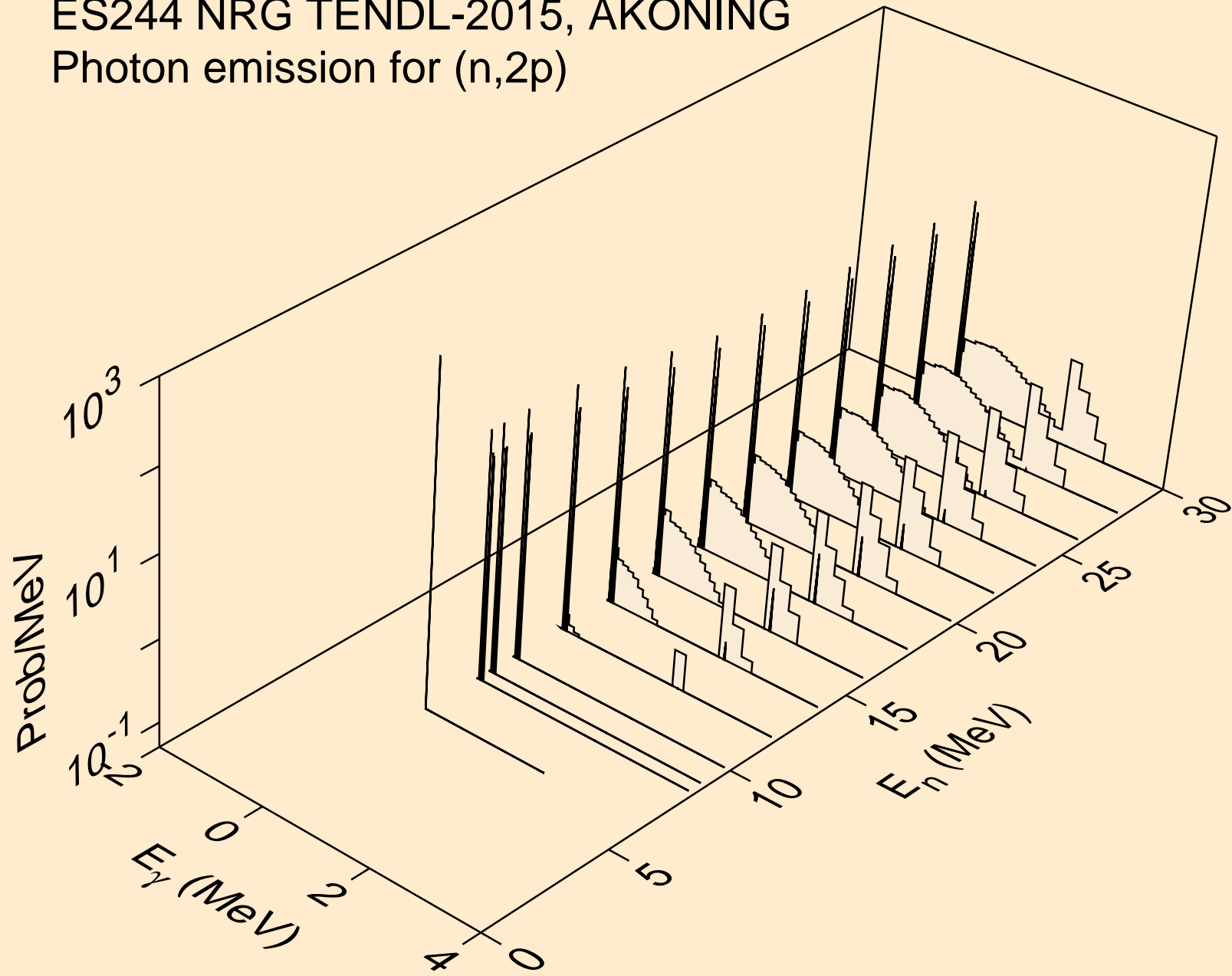
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,a)



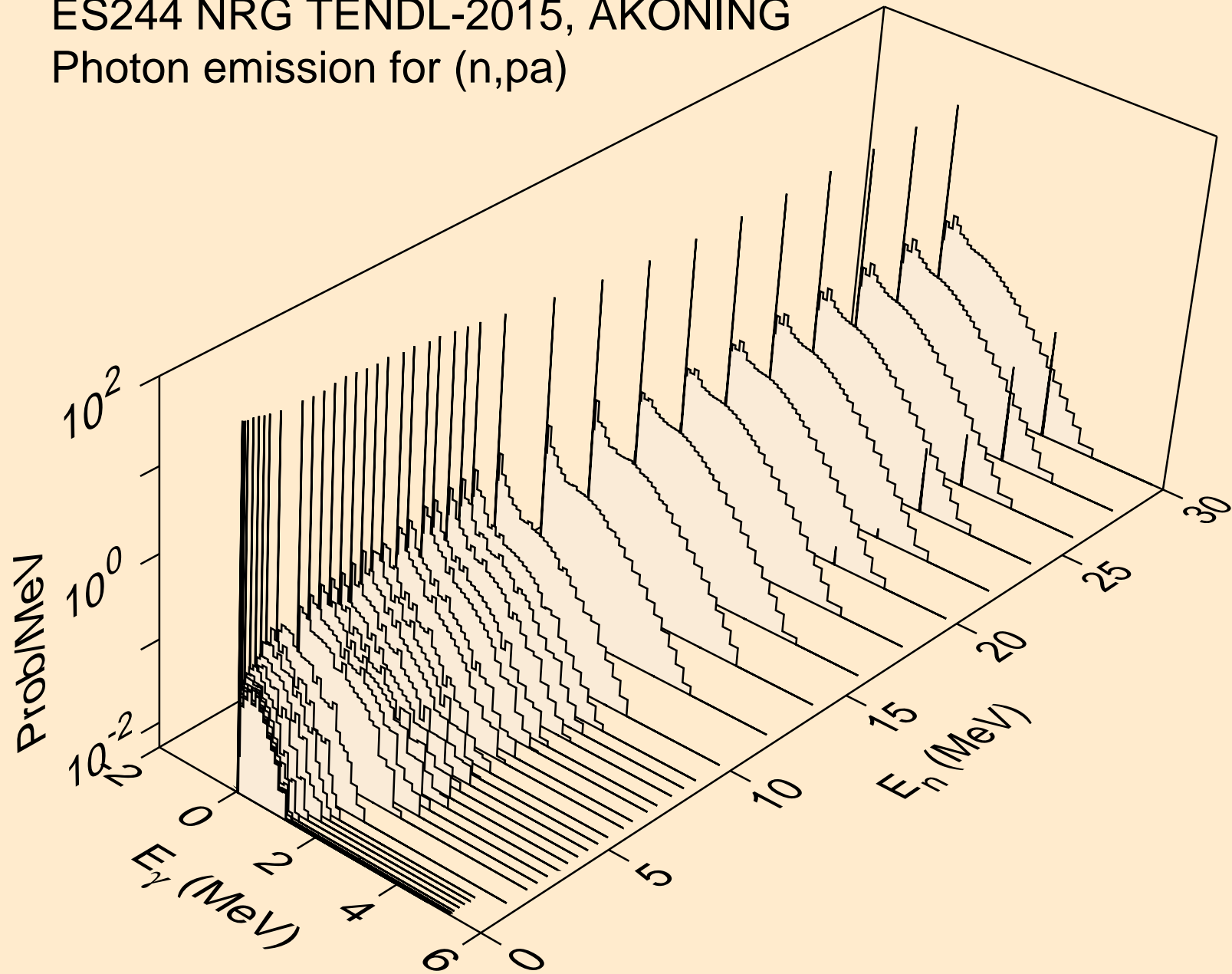
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,2a)



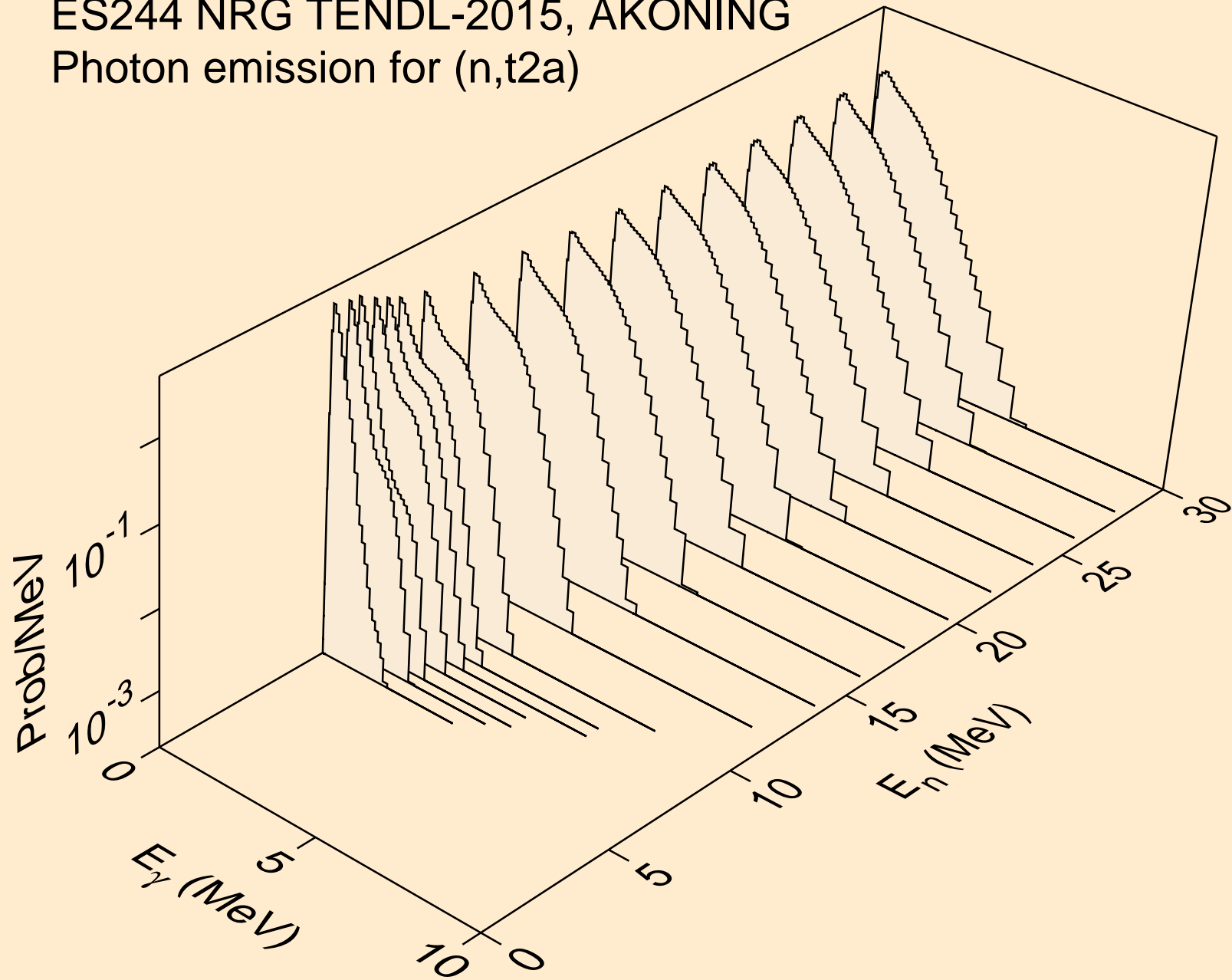
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,2p)



ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,p $\alpha$ )

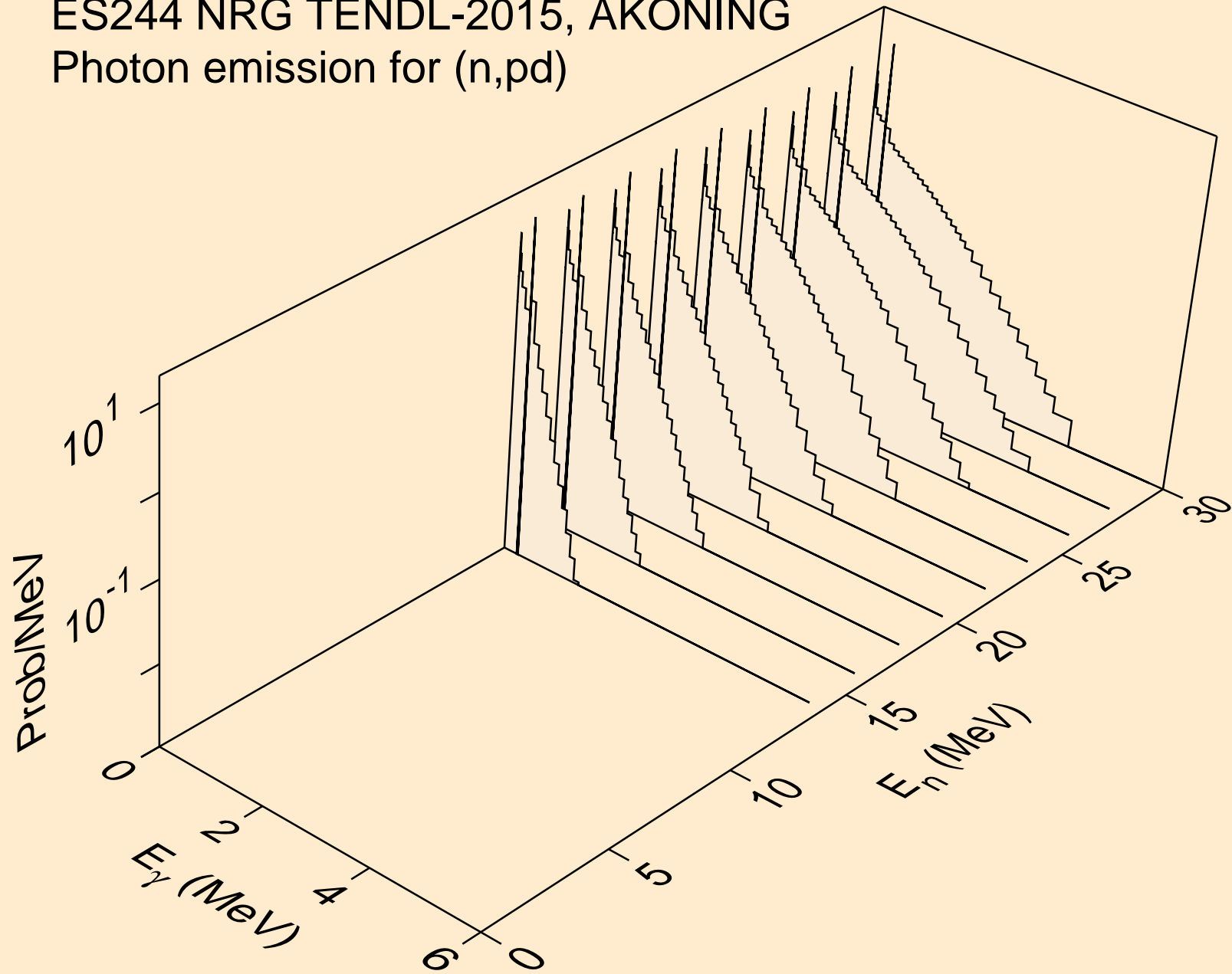


ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,t2a)

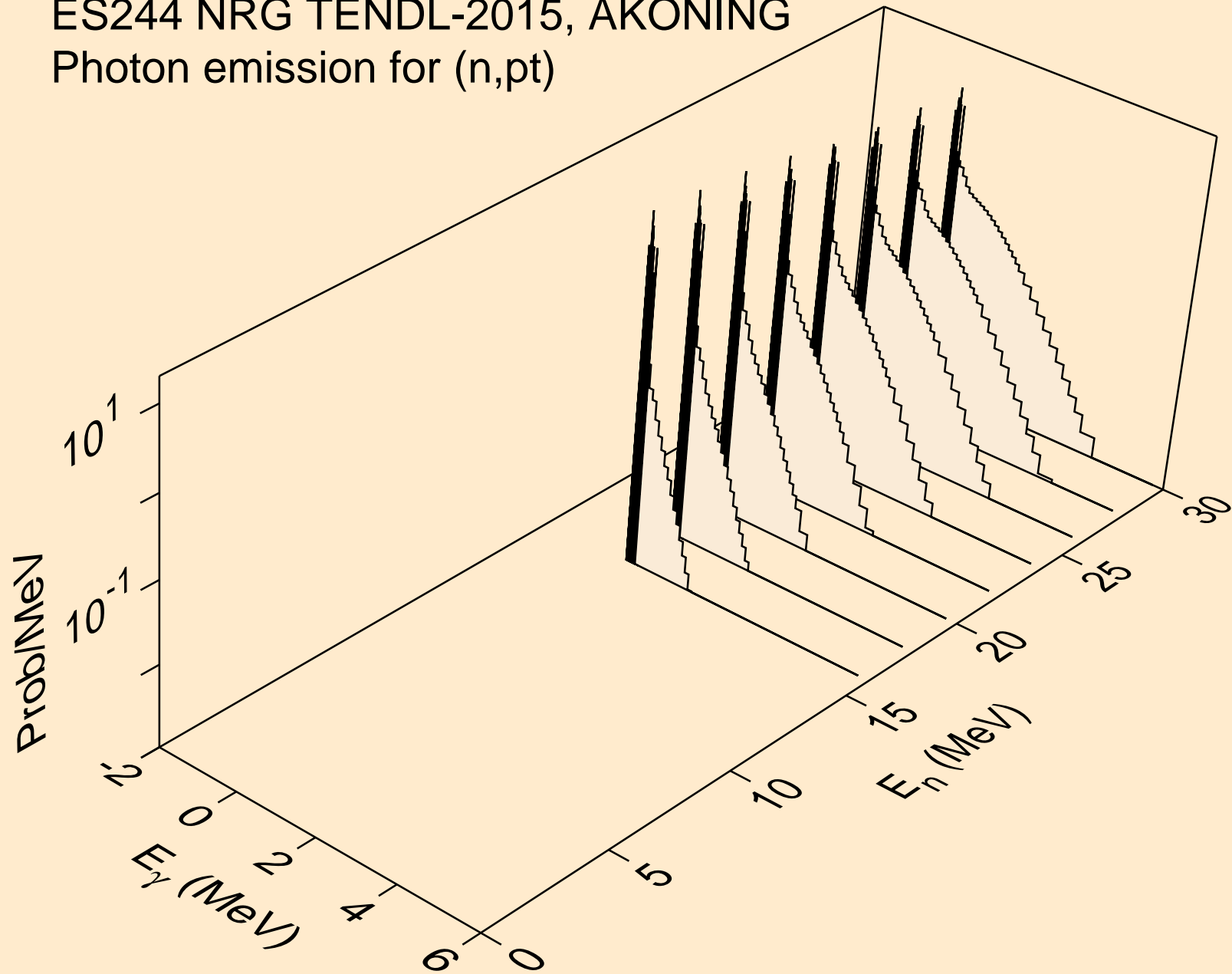




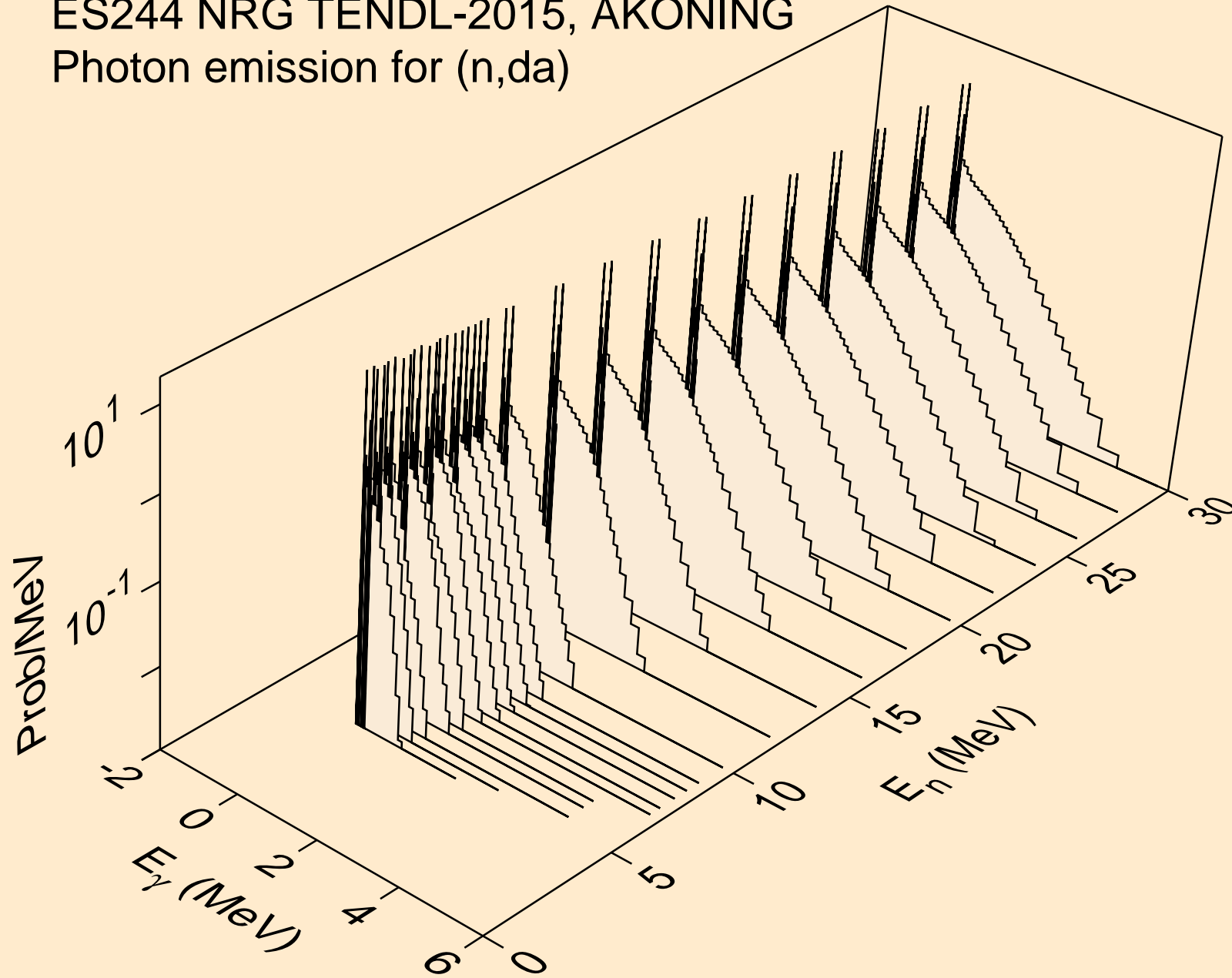
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,pd)



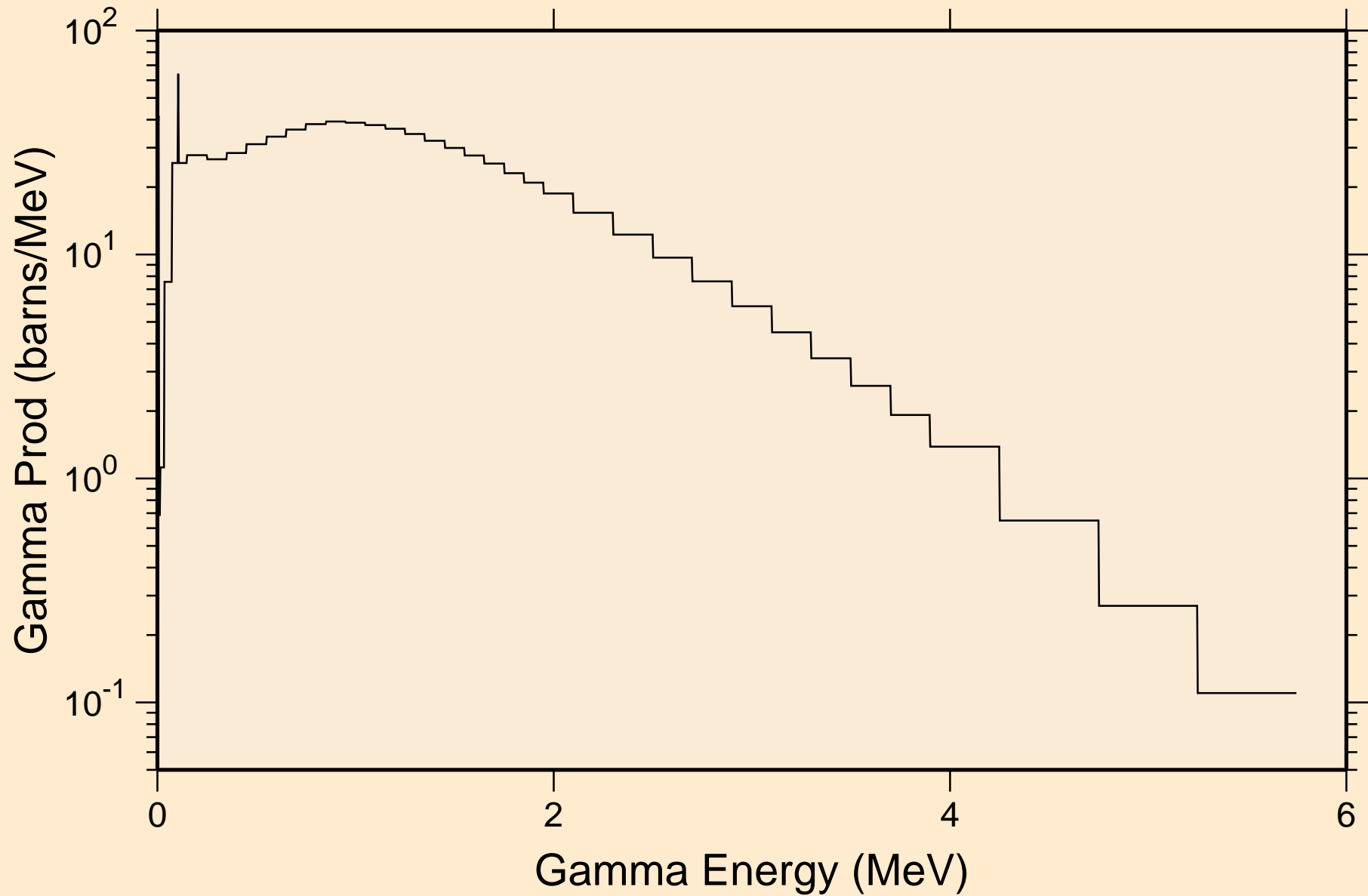
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,pt)



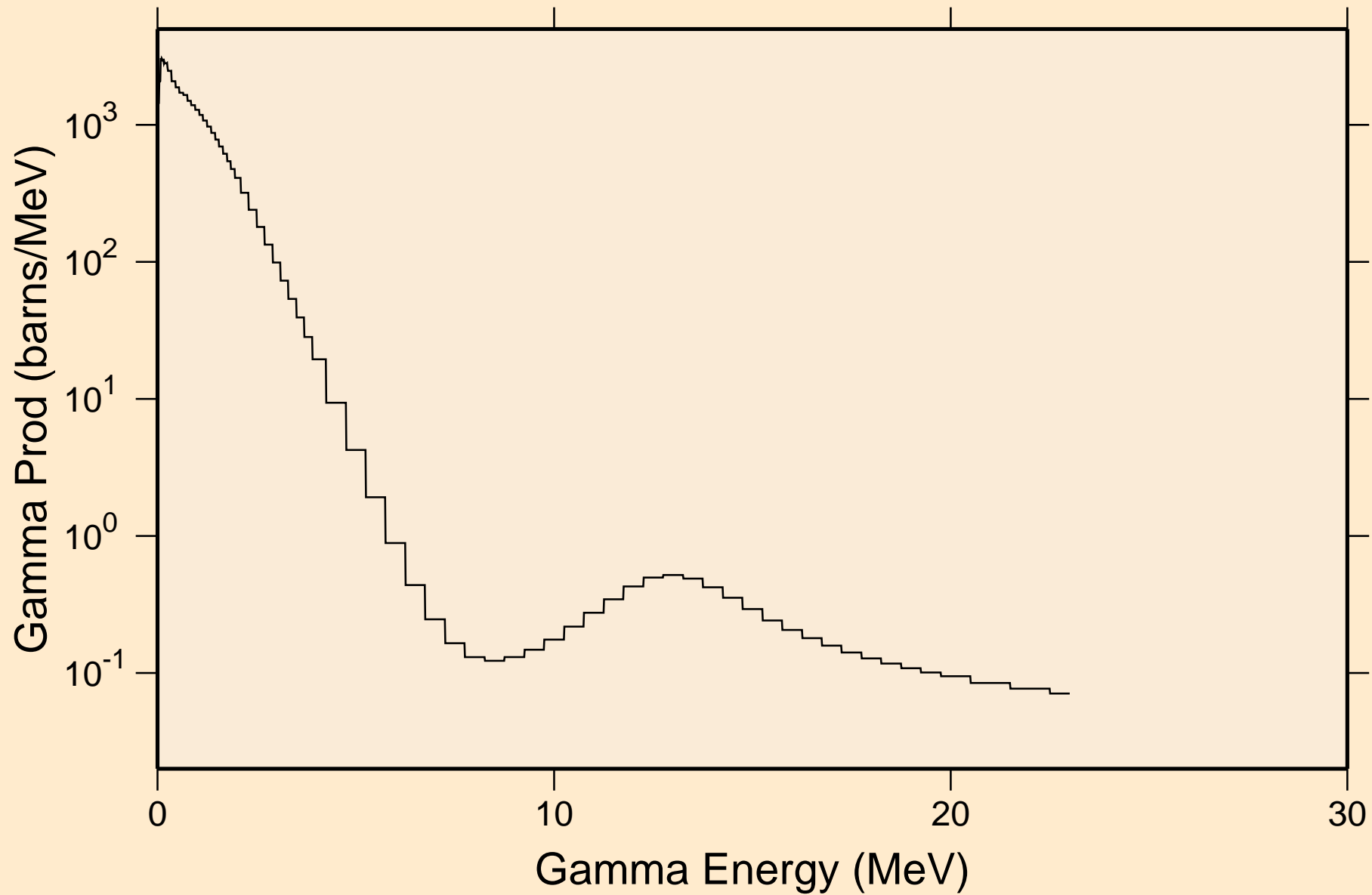
ES244 NRG TENDL-2015, AKONING  
Photon emission for (n,da)



ES244 NRG TENDL-2015, AKONING  
thermal capture photon spectrum

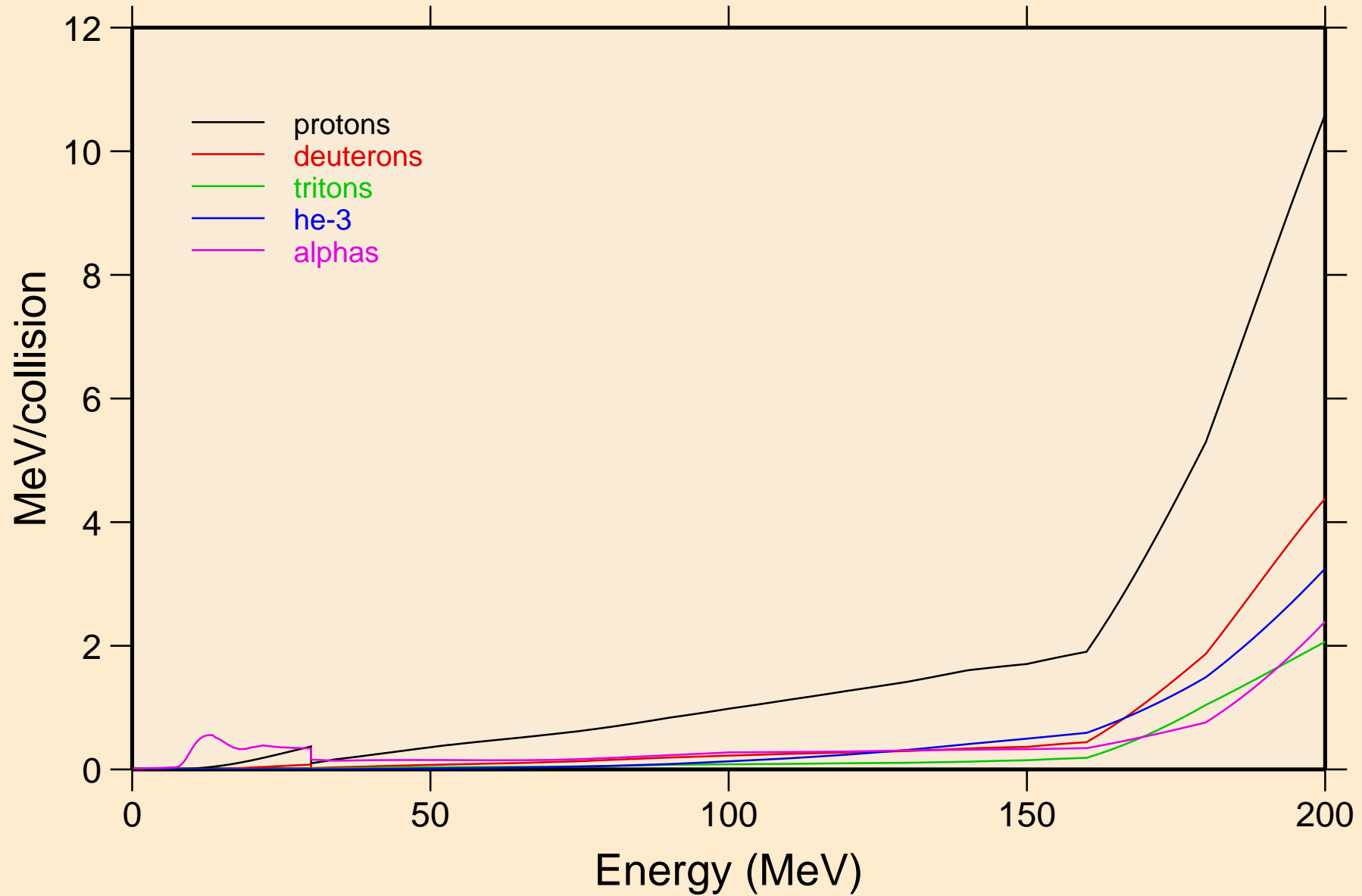


ES244 NRG TENDL-2015, AKONING  
14 MeV photon spectrum



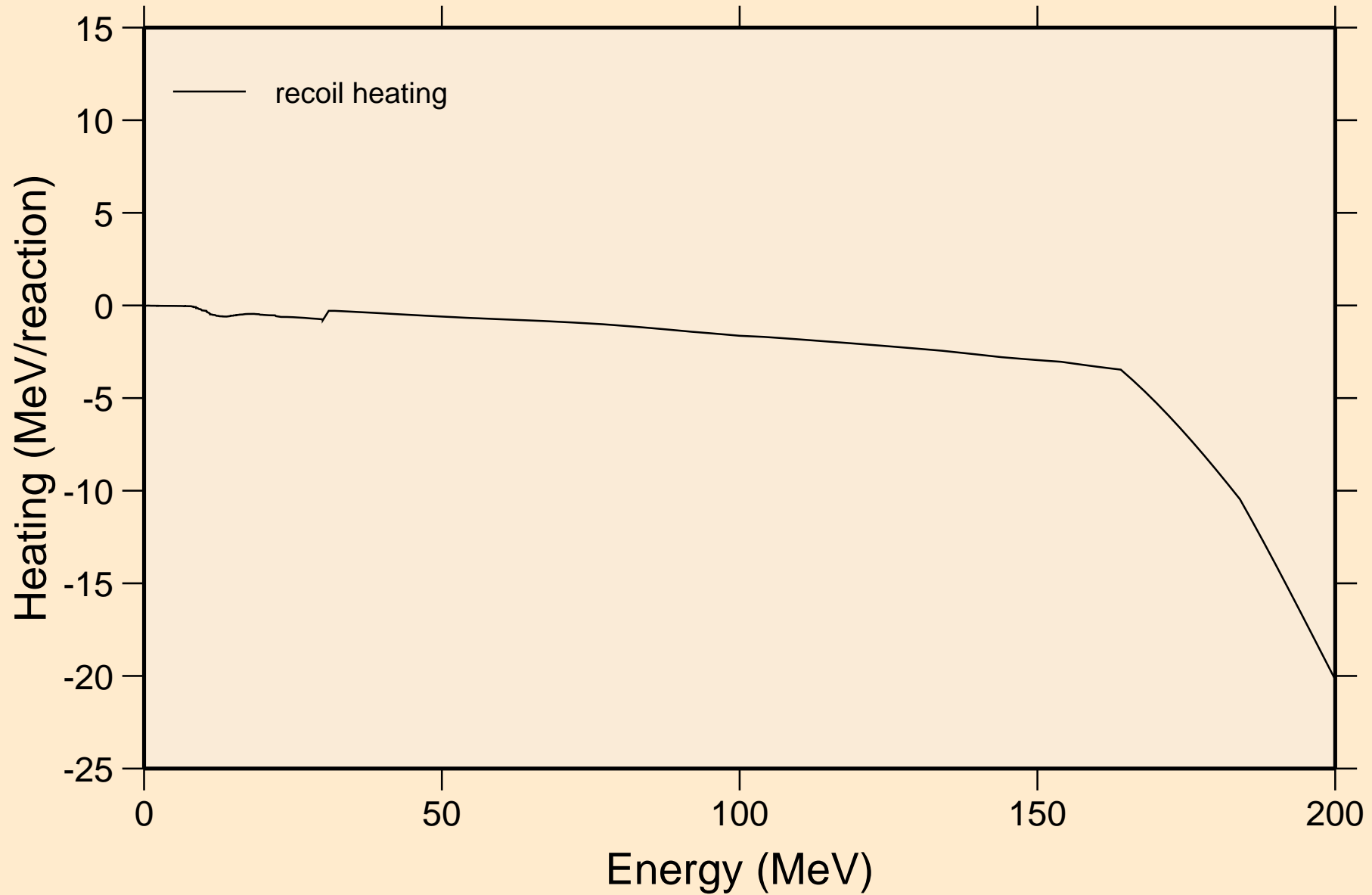
# ES244 NRG TENDL-2015, AKONING

## Particle heating contributions



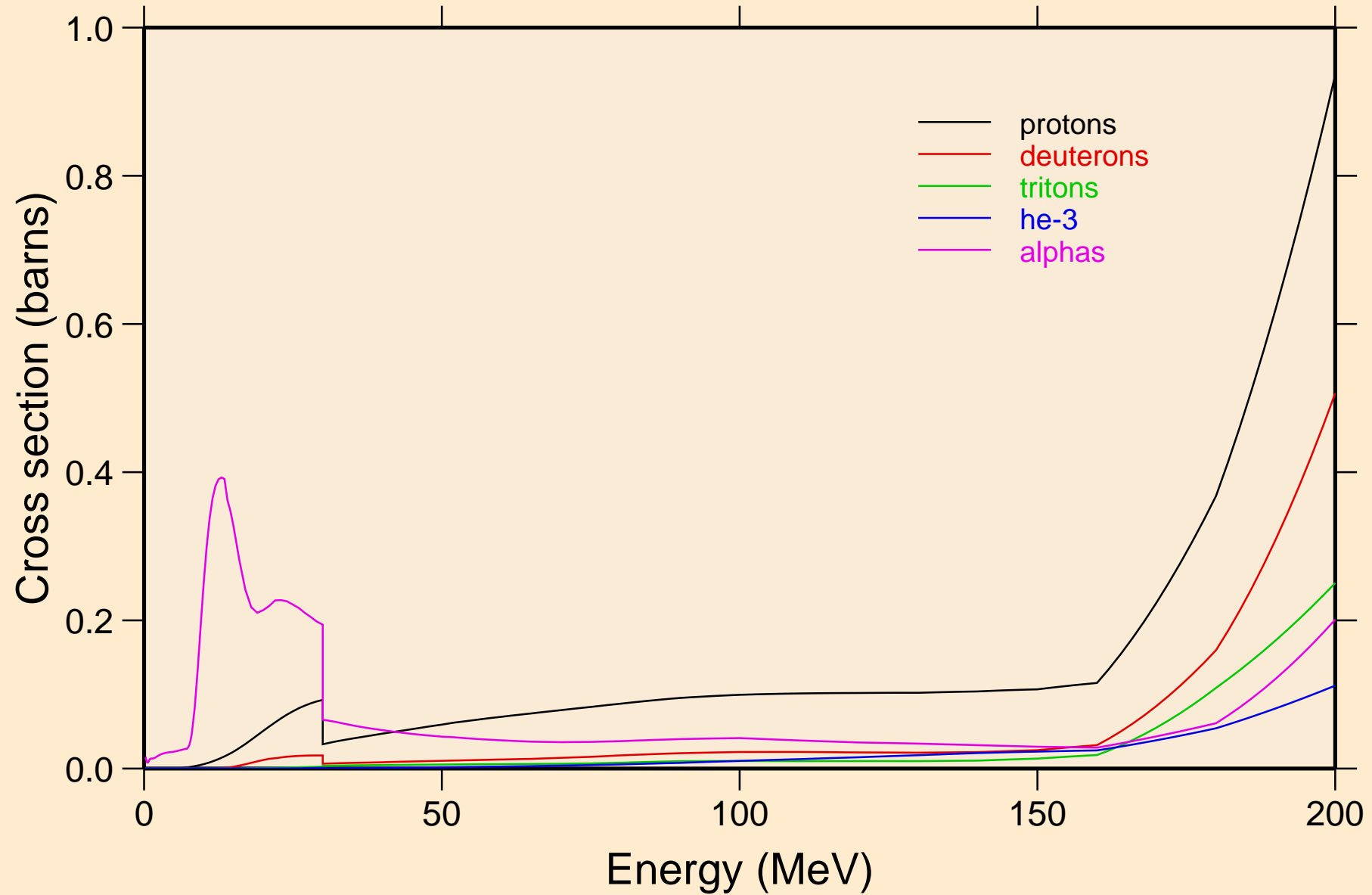
# ES244 NRG TENDL-2015, AKONING

## Recoil Heating



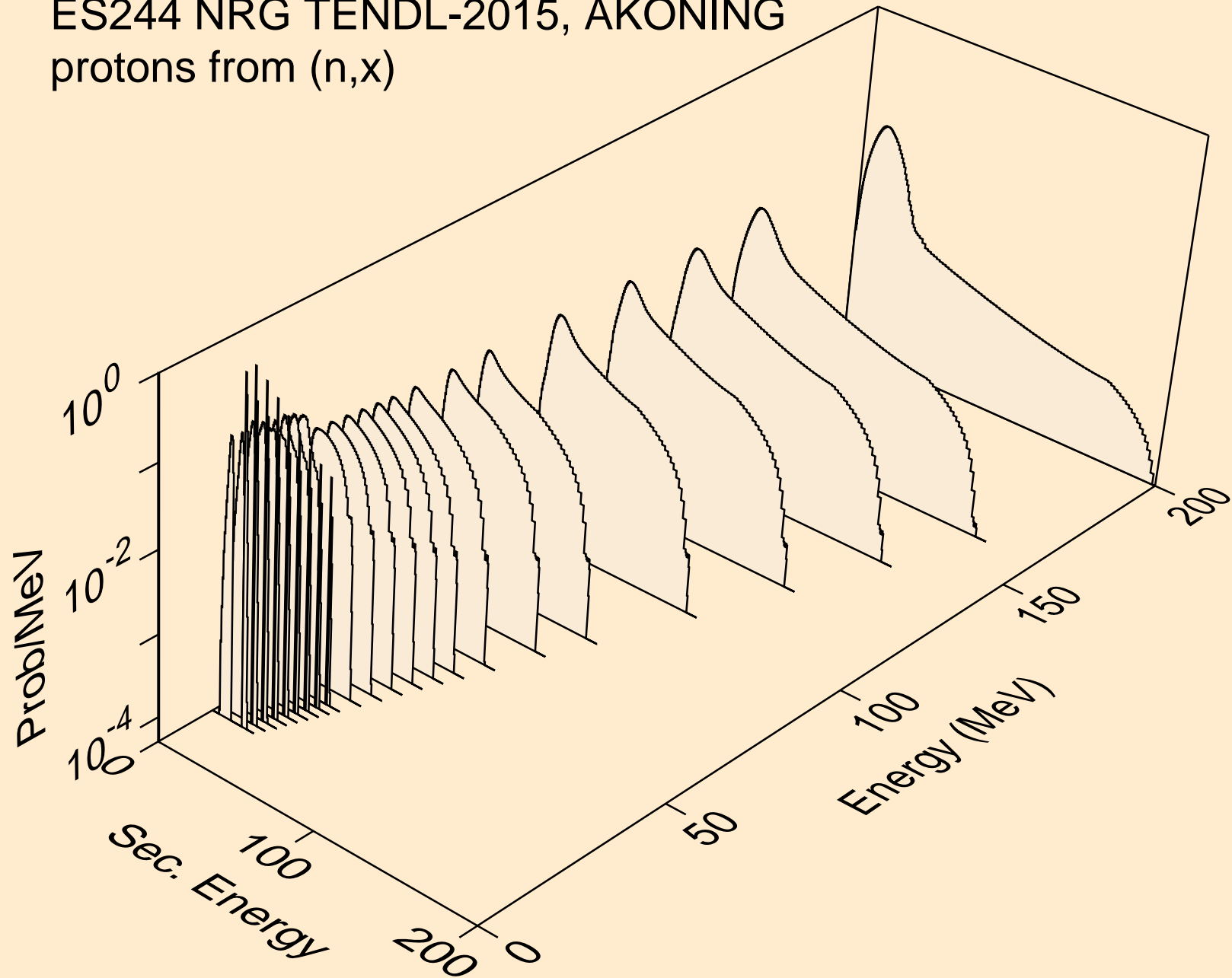
# ES244 NRG TENDL-2015, AKONING

## Particle production cross sections

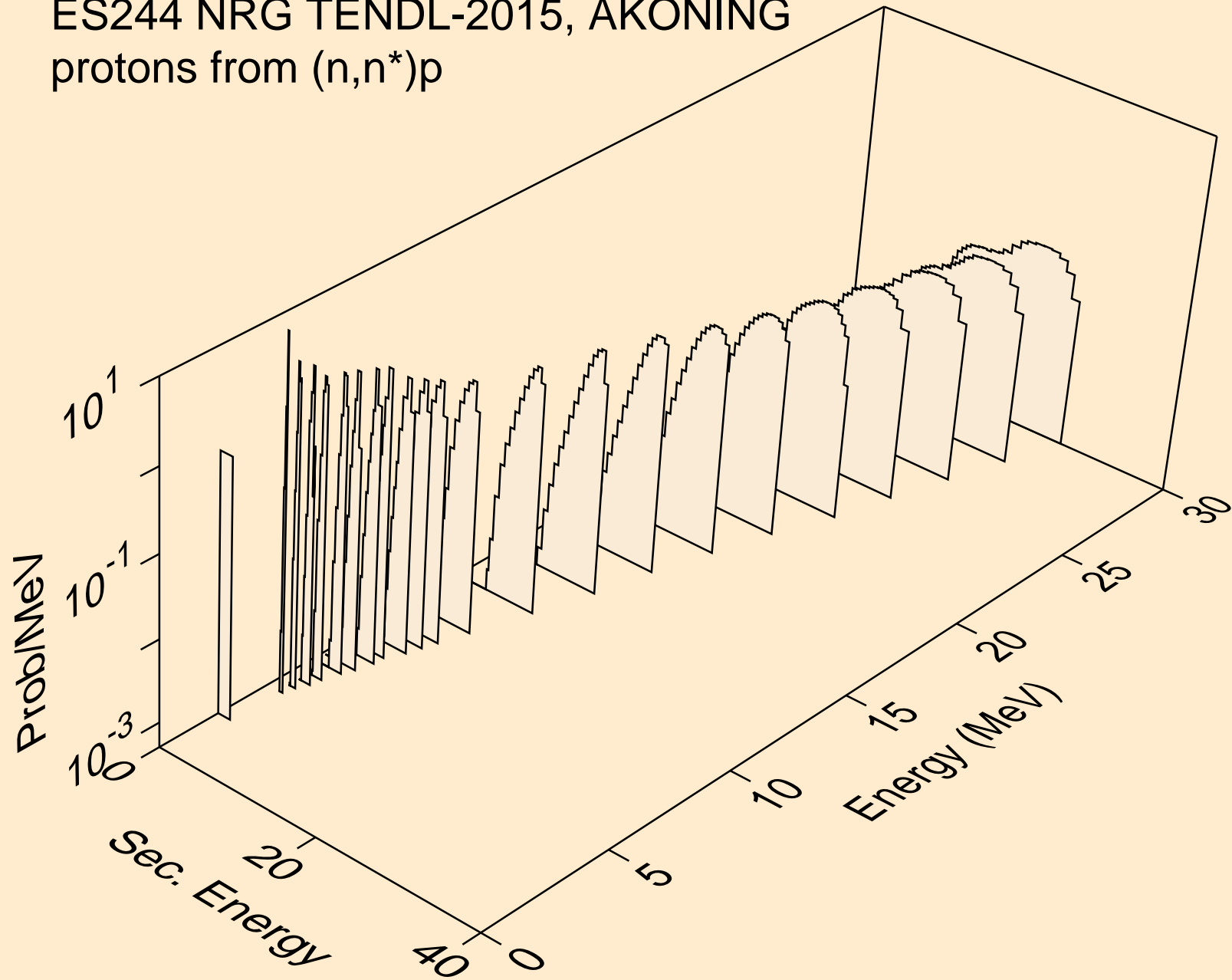




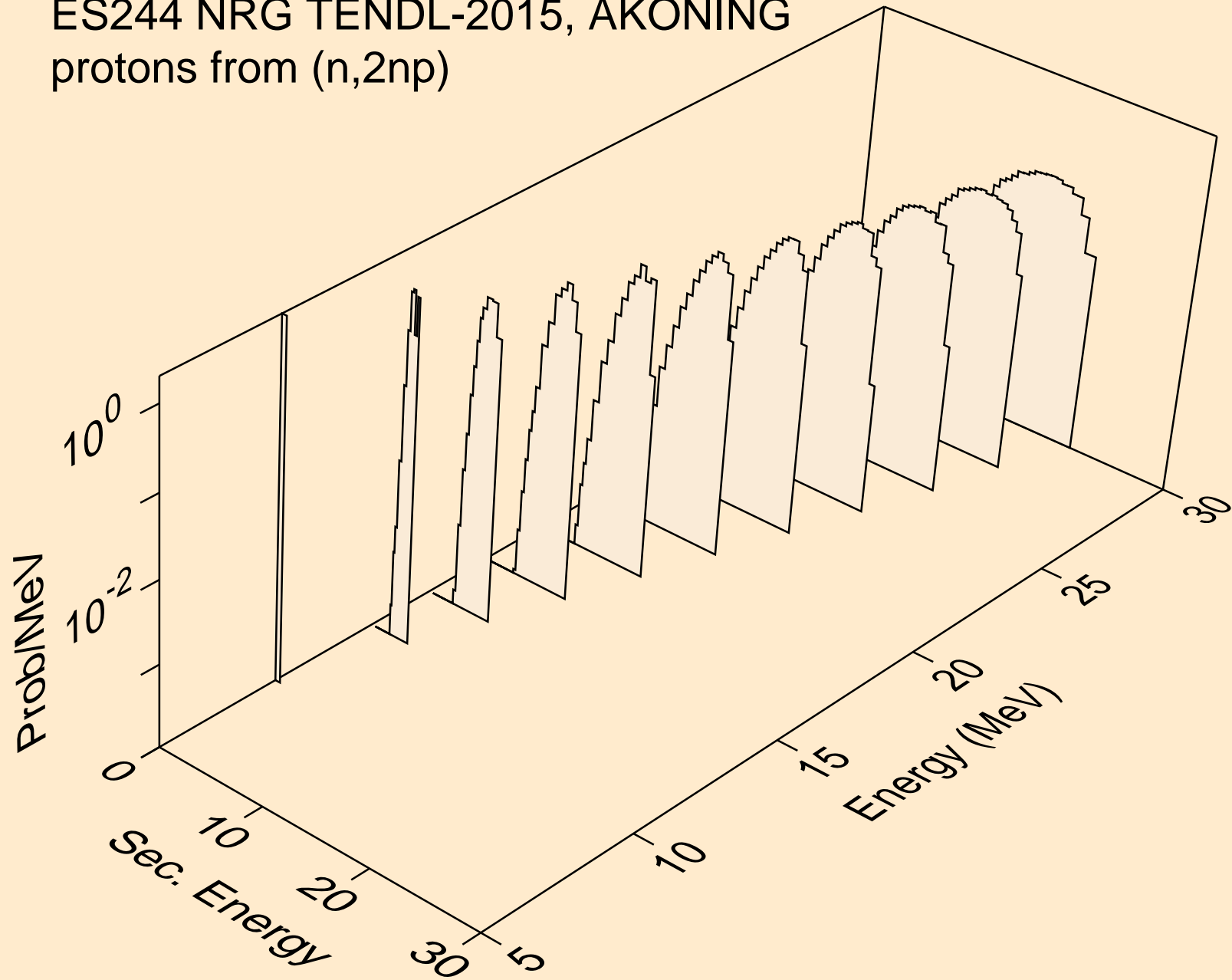
ES244 NRG TENDL-2015, AKONING  
protons from (n,x)



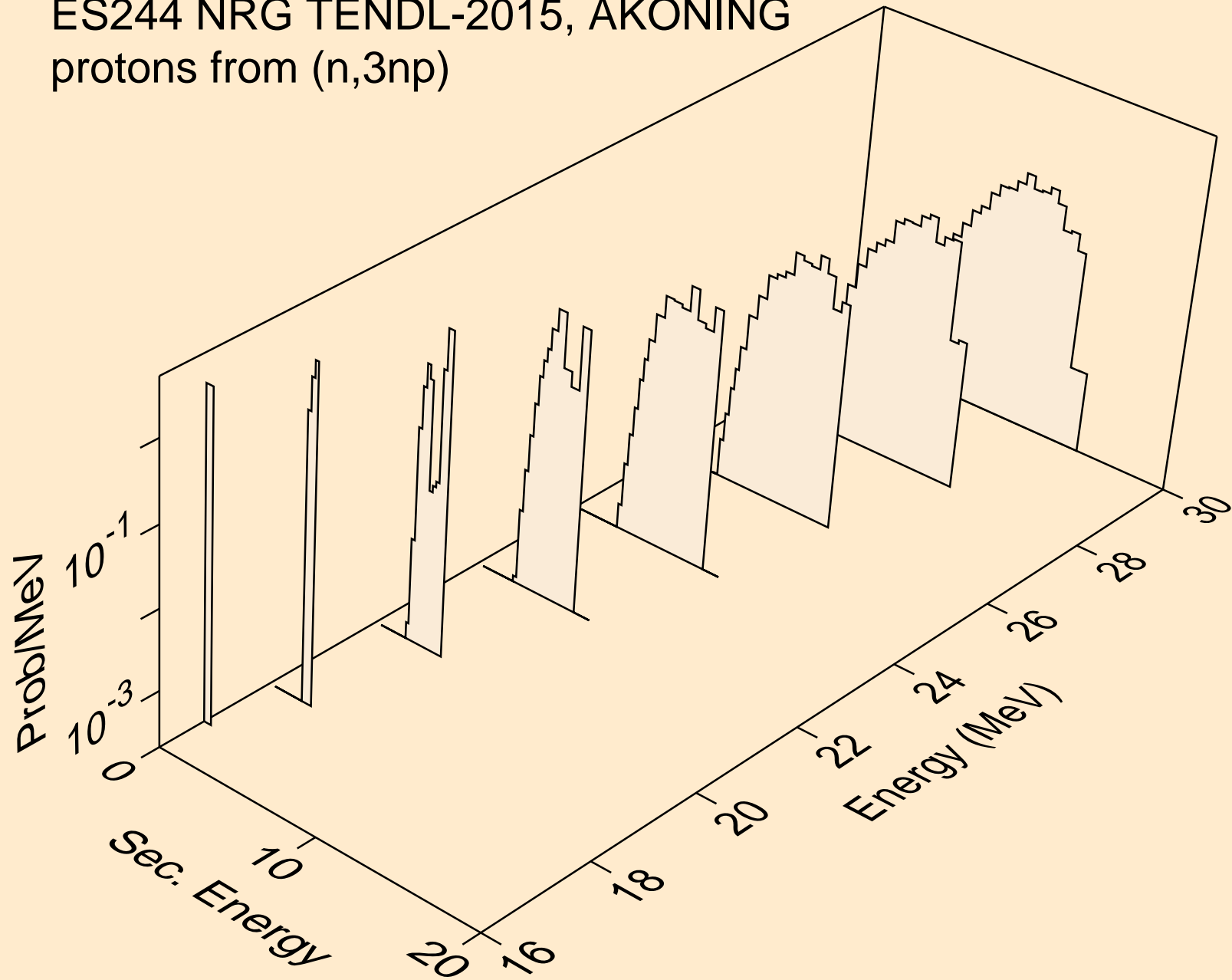
ES244 NRG TENDL-2015, AKONING  
protons from (n,n\*)p



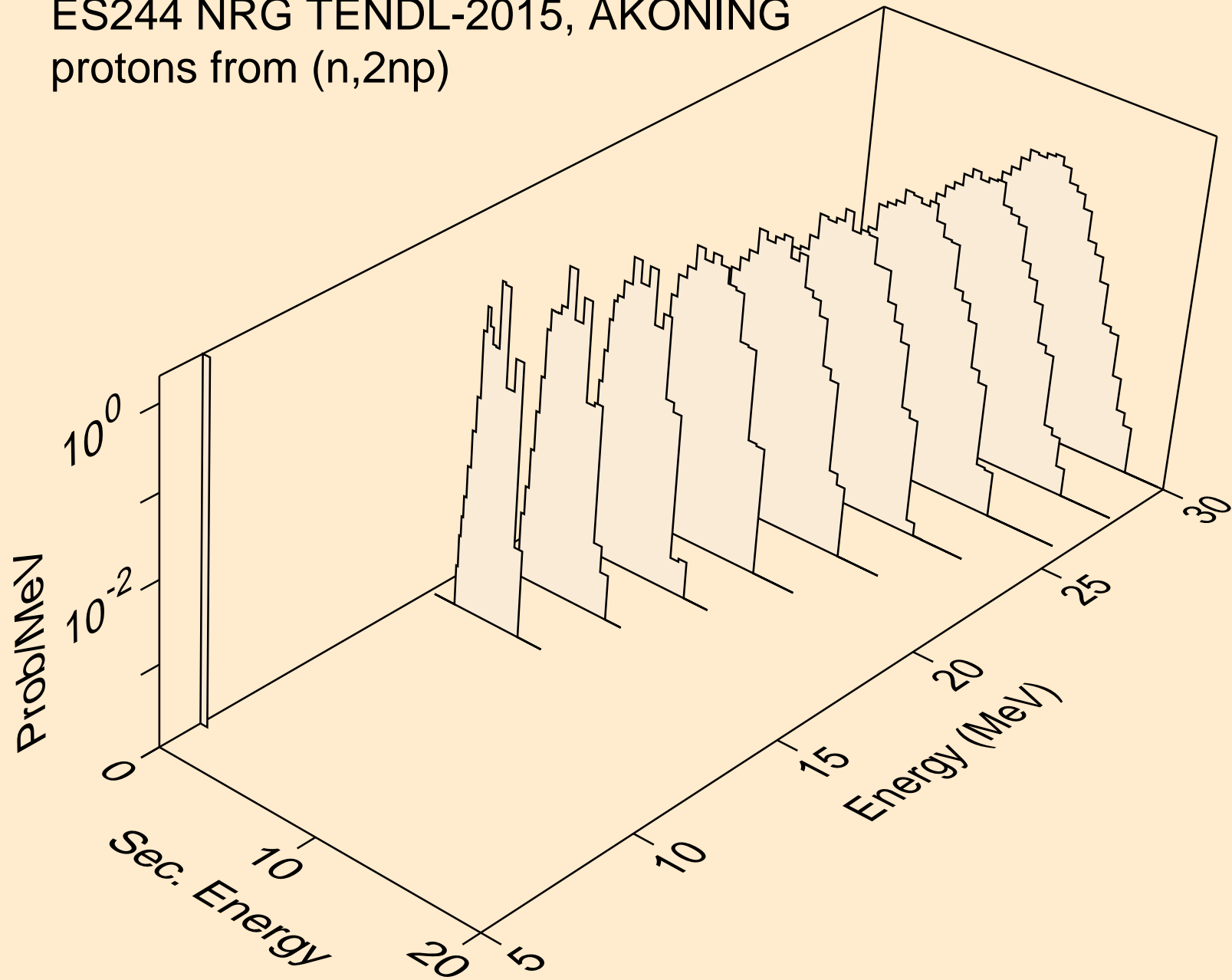
ES244 NRG TENDL-2015, AKONING  
protons from (n,2np)



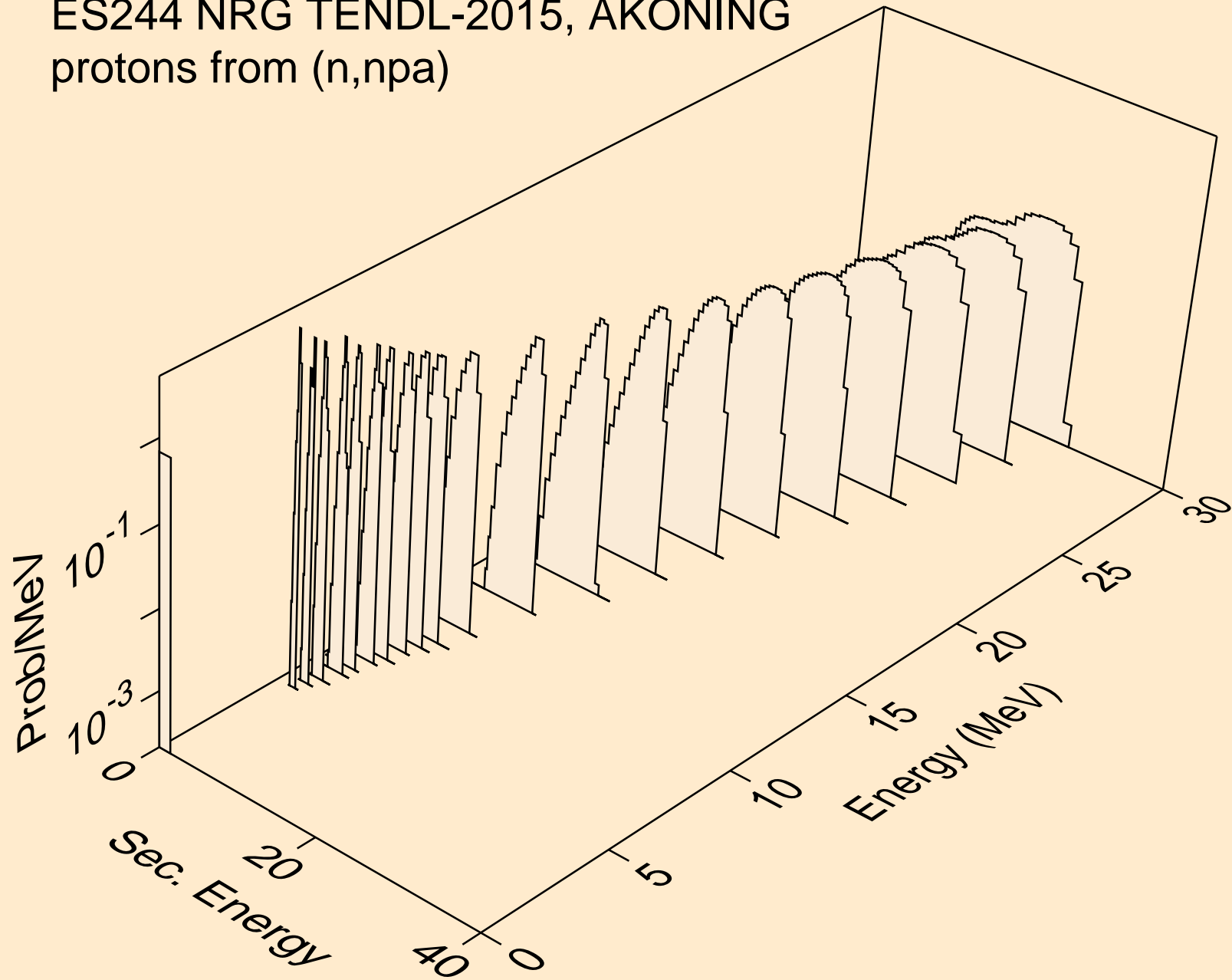
ES244 NRG TENDL-2015, AKONING  
protons from (n,3np)



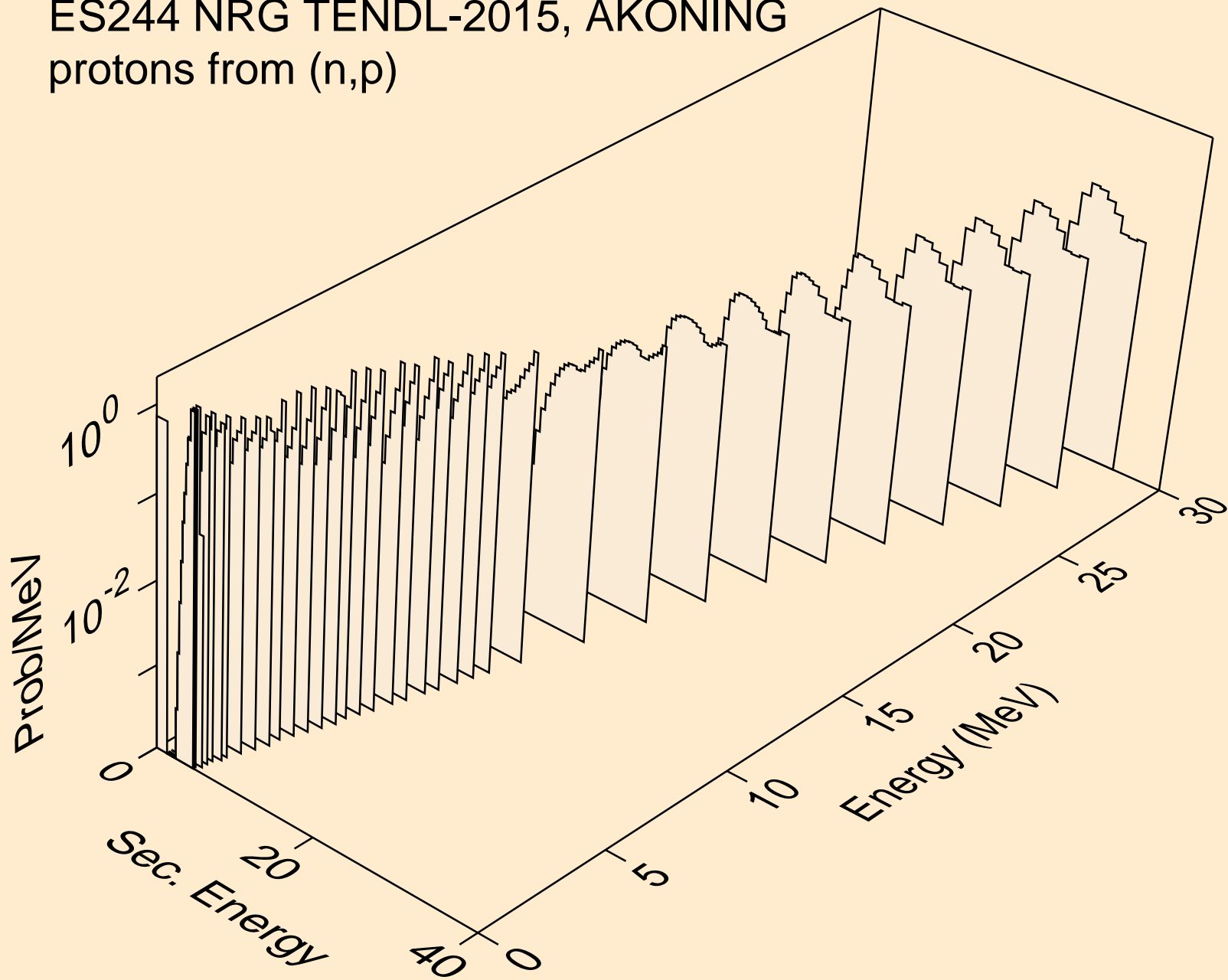
ES244 NRG TENDL-2015, AKONING  
protons from (n,2np)



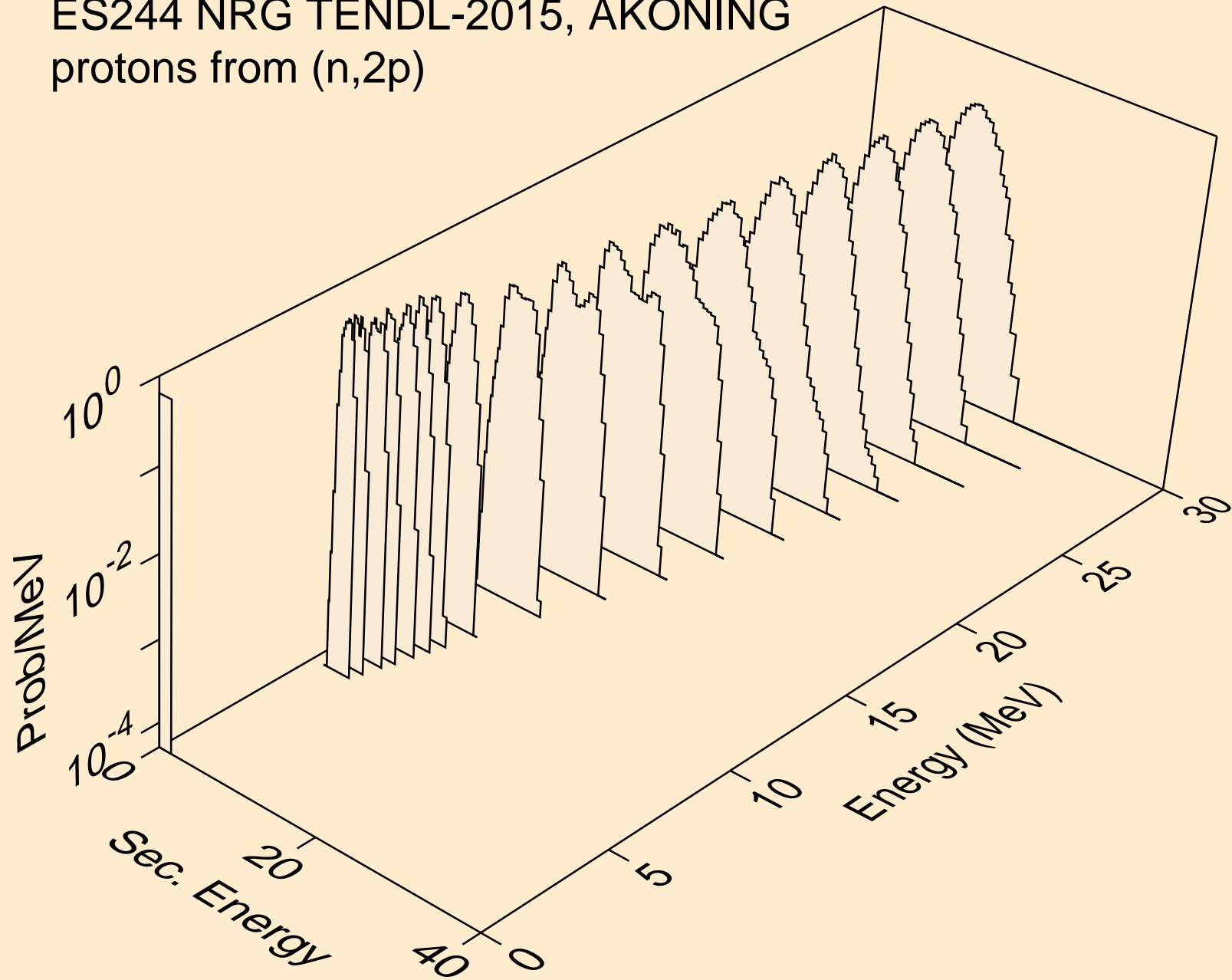
ES244 NRG TENDL-2015, AKONING  
protons from (n,npa)



ES244 NRG TENDL-2015, AKONING  
protons from (n,p)

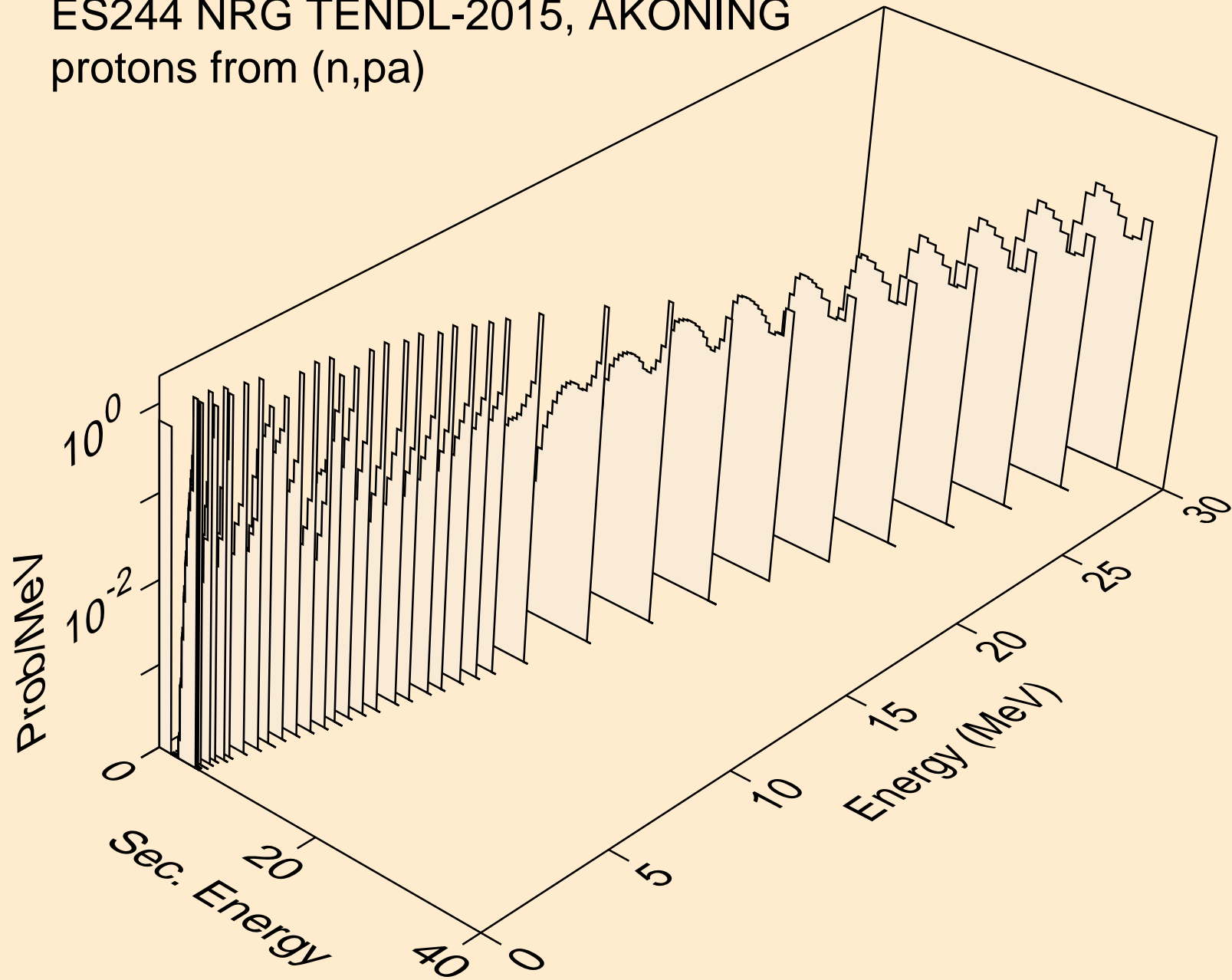


ES244 NRG TENDL-2015, AKONING  
protons from (n,2p)

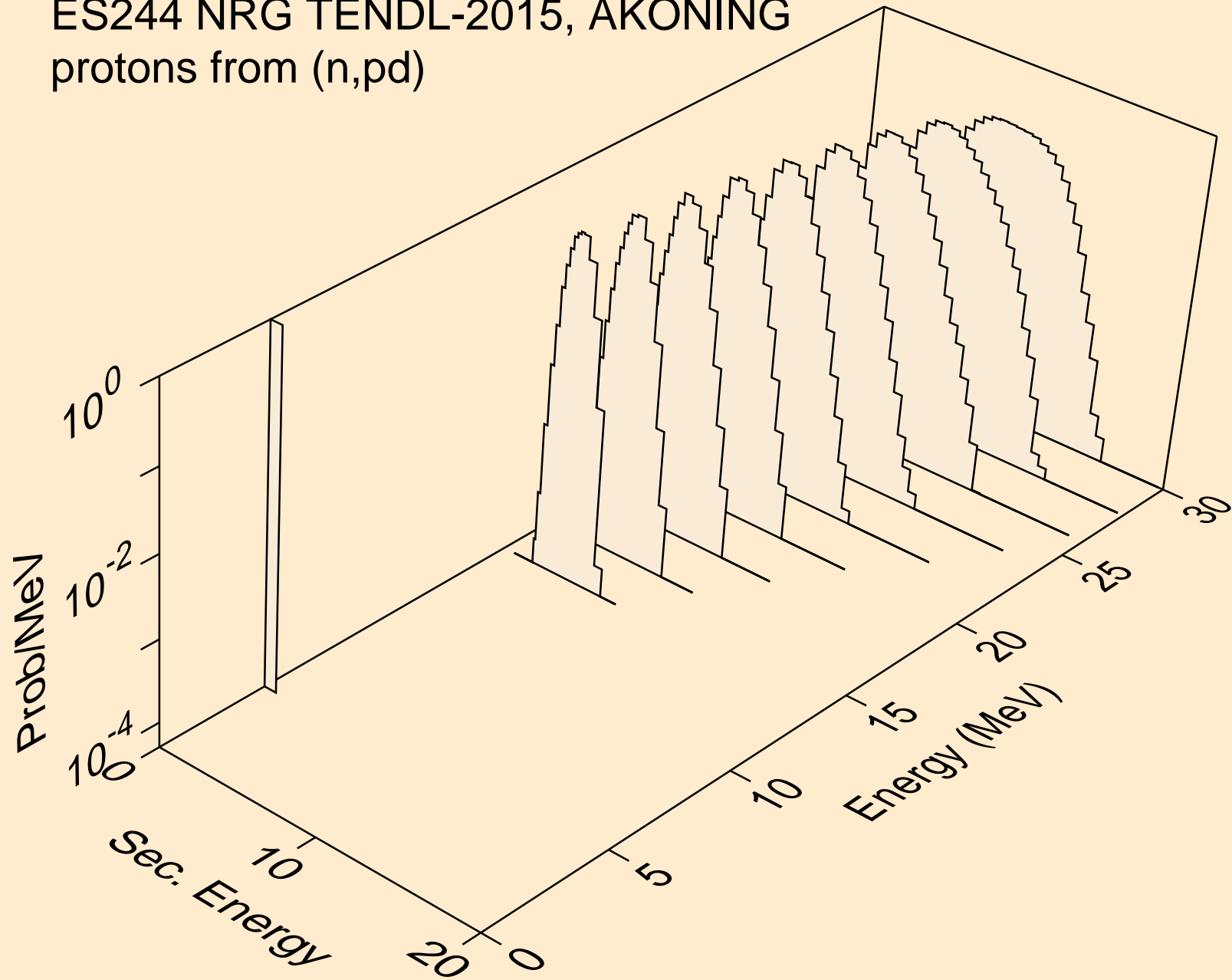




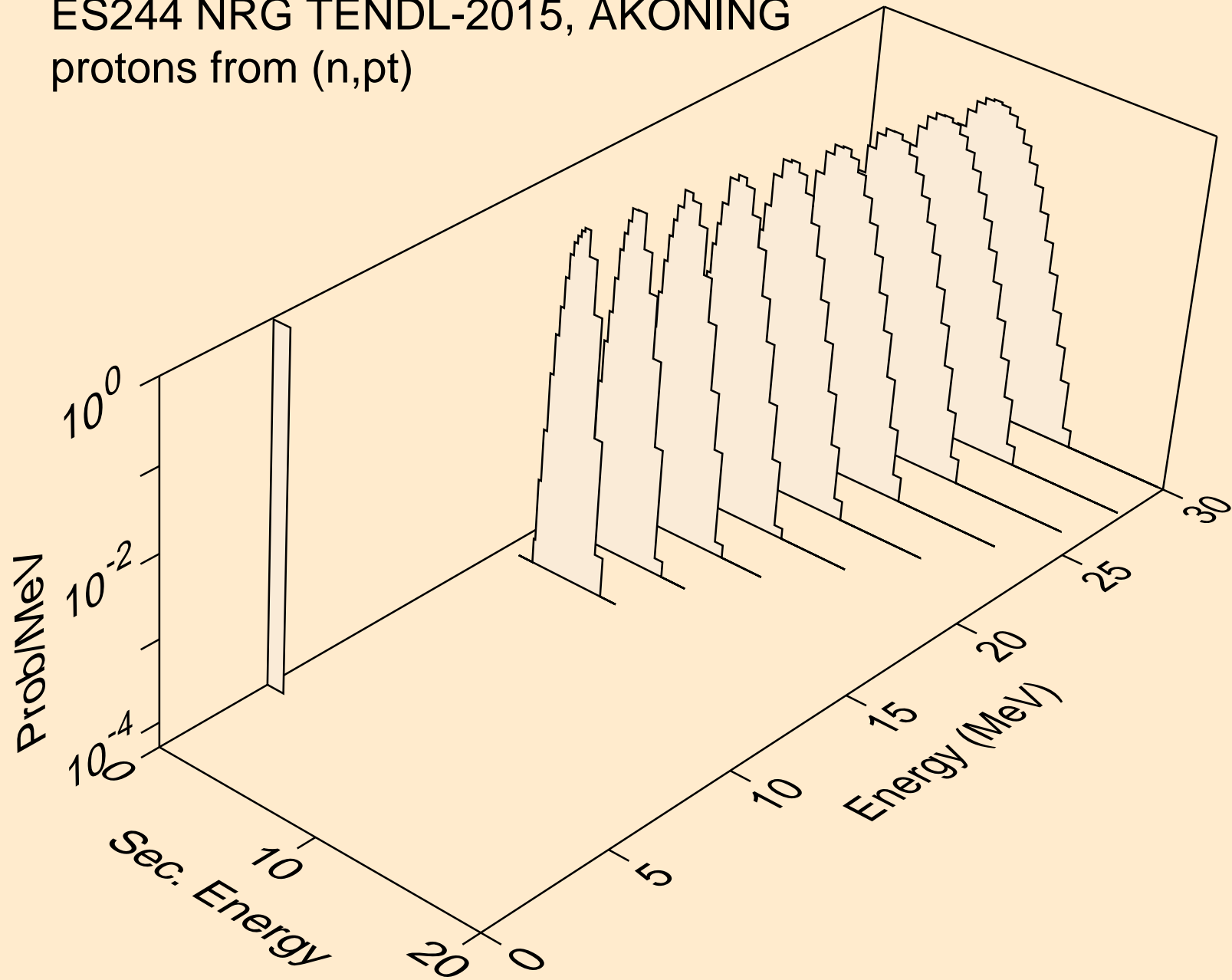
ES244 NRG TENDL-2015, AKONING  
protons from (n,pa)



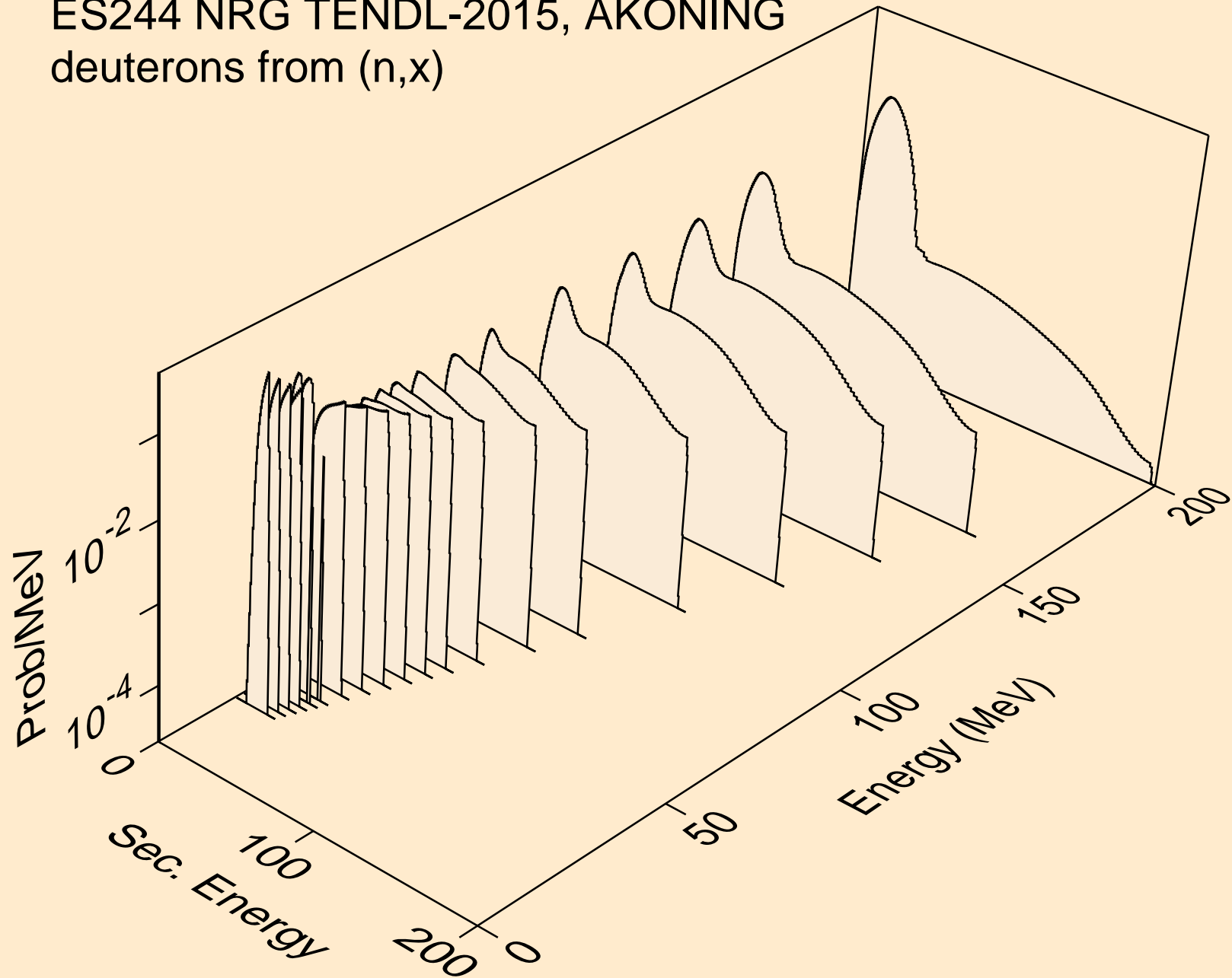
ES244 NRG TENDL-2015, AKONING  
protons from (n,pd)



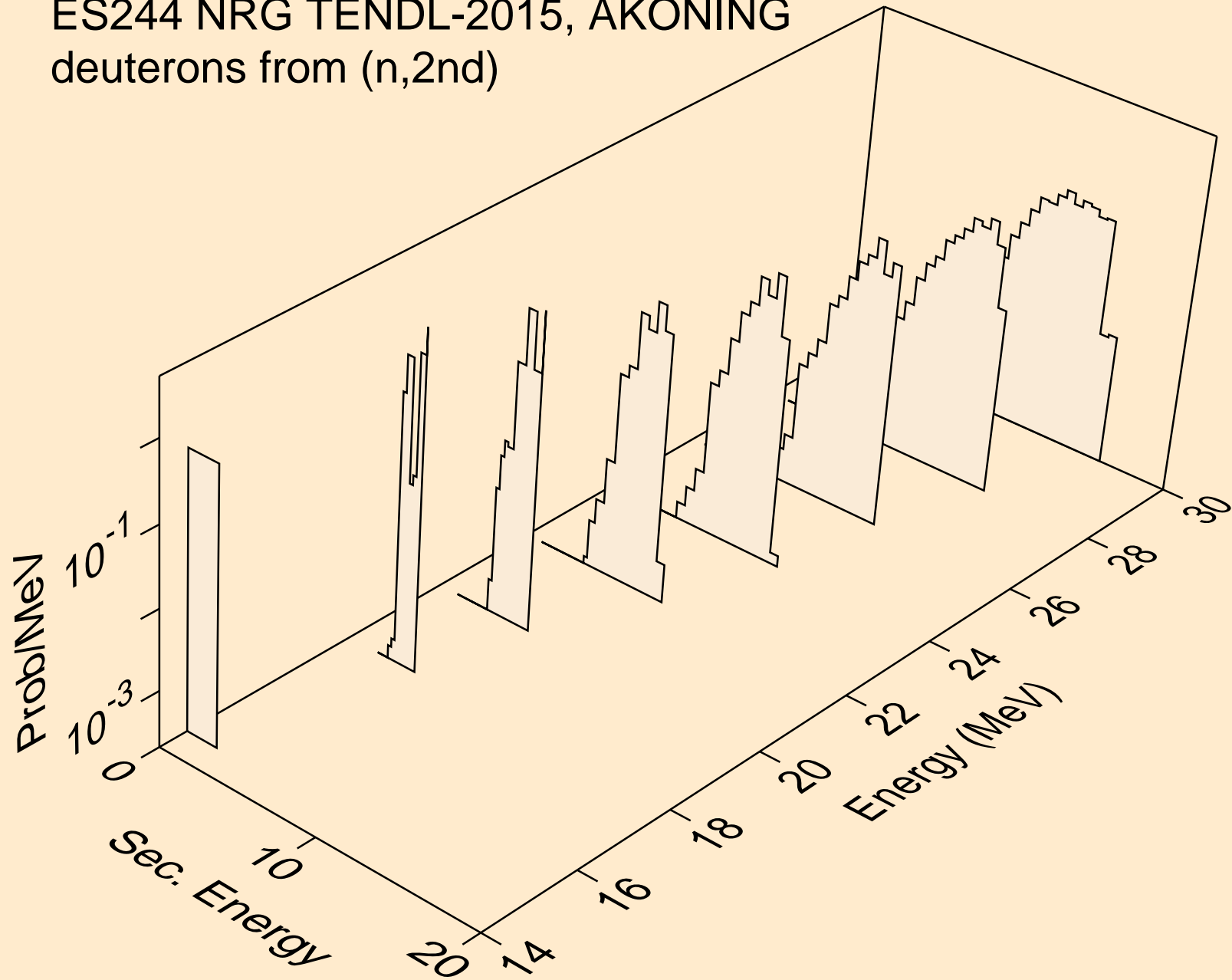
ES244 NRG TENDL-2015, AKONING  
protons from (n,pt)



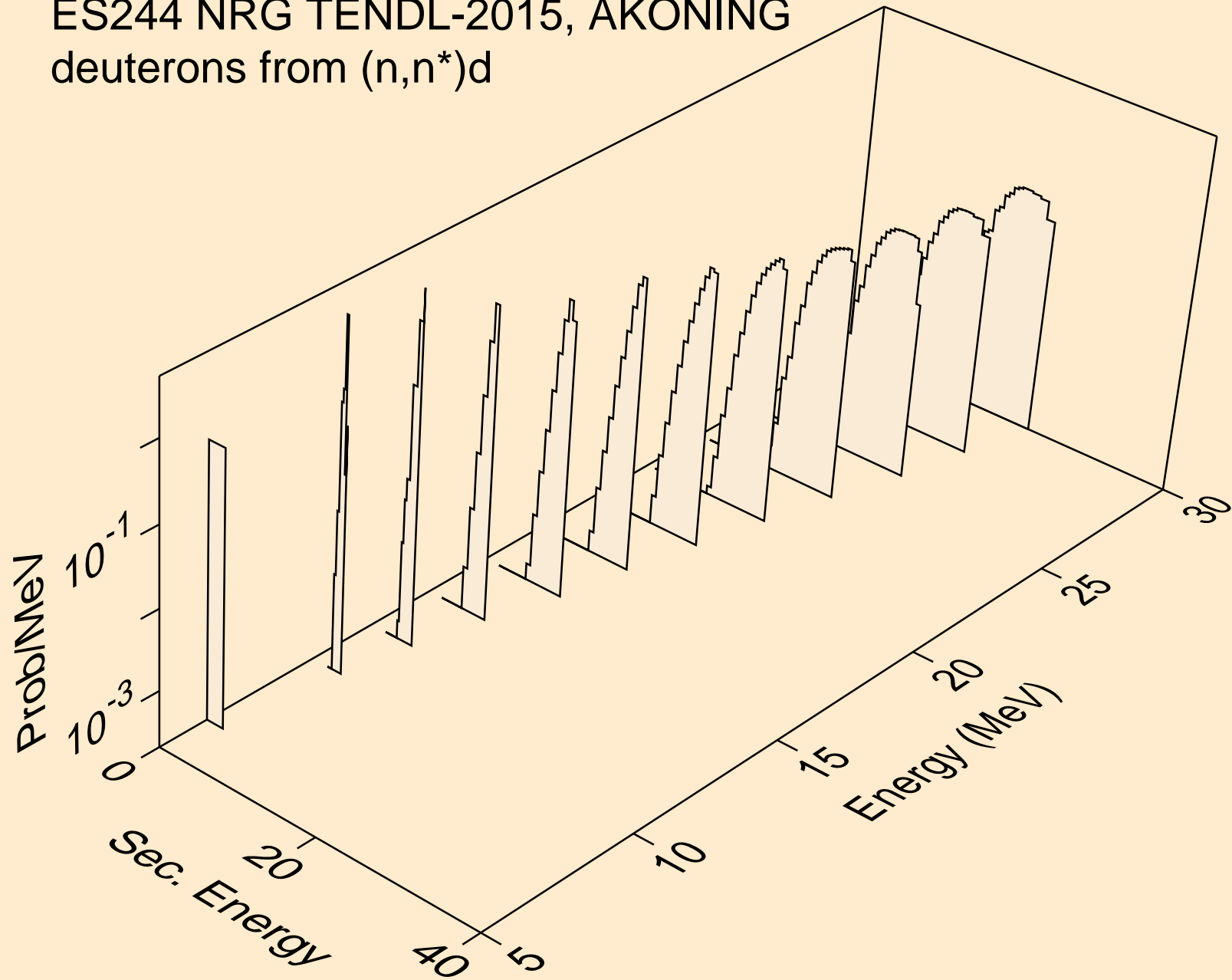
ES244 NRG TENDL-2015, AKONING  
deuterons from (n,x)



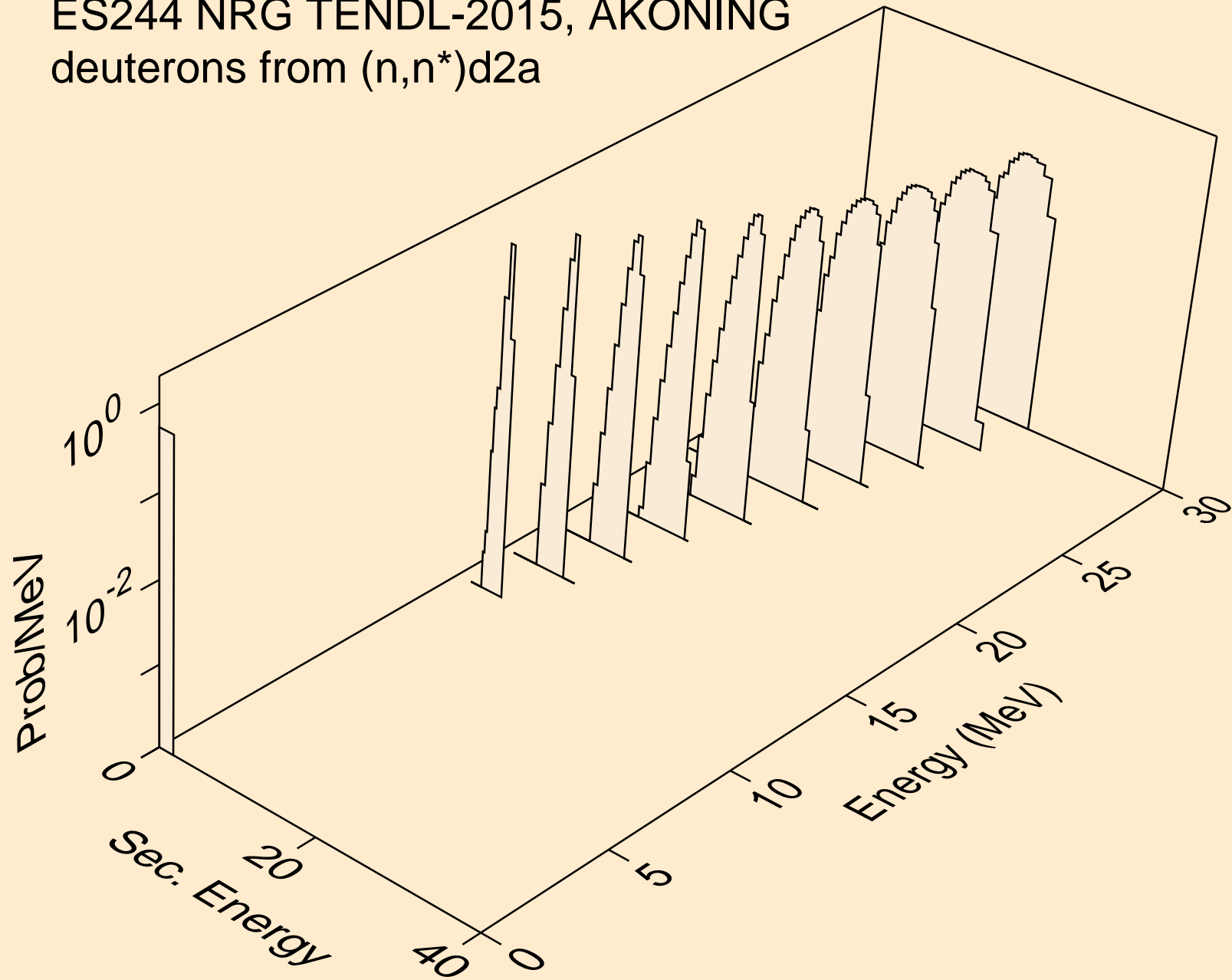
ES244 NRG TENDL-2015, AKONING  
deuterons from (n,2nd)



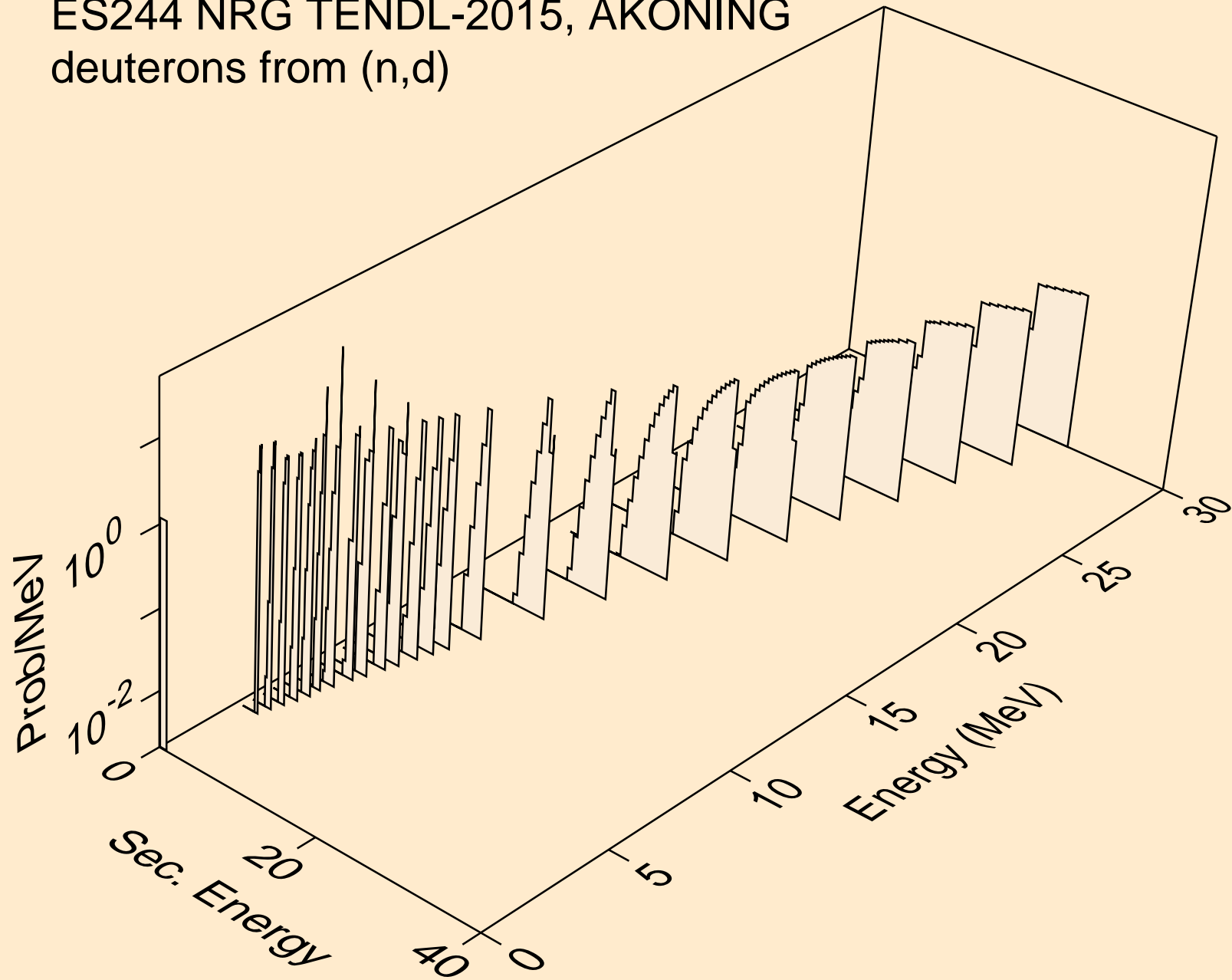
ES244 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d



ES244 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d2a

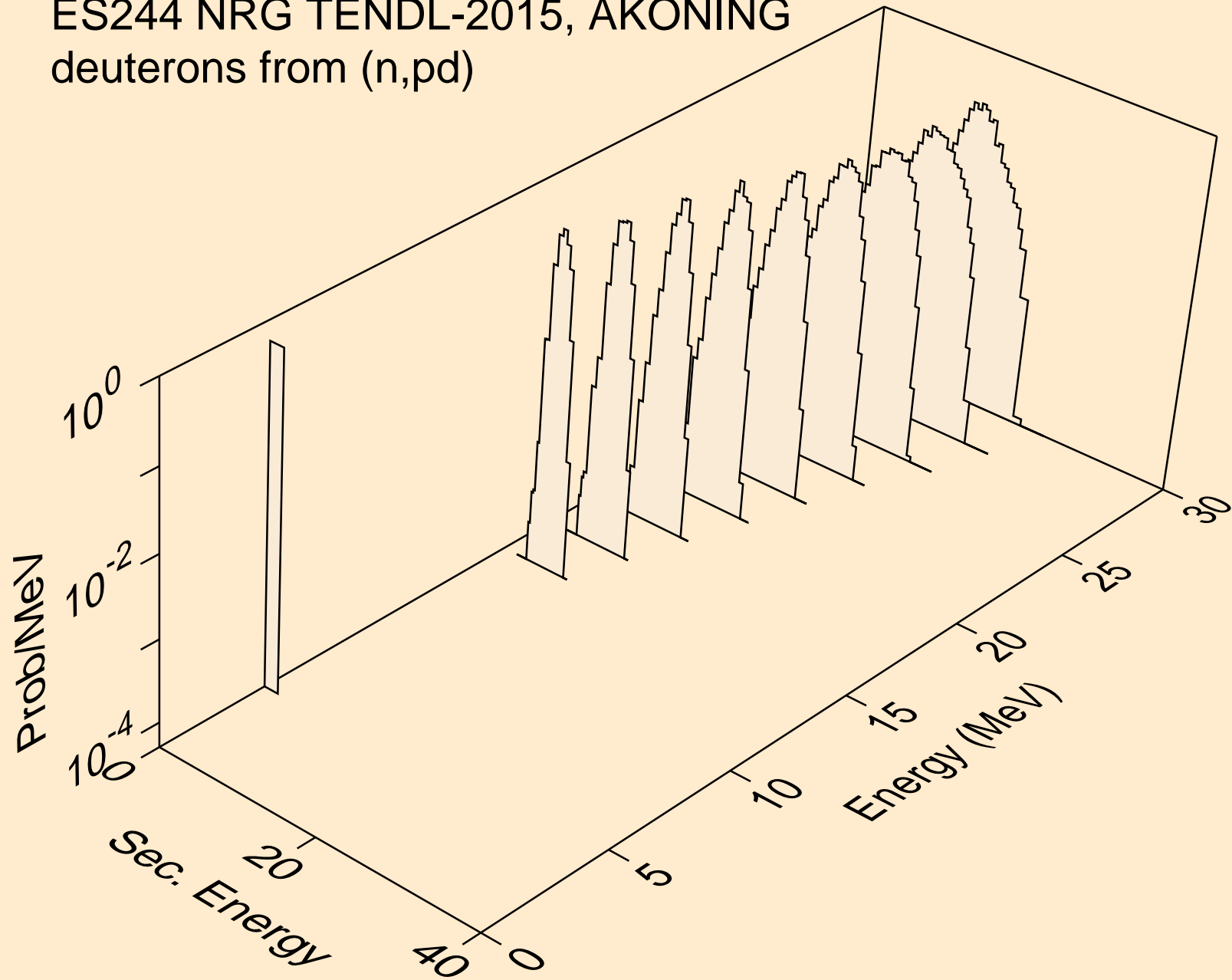


ES244 NRG TENDL-2015, AKONING  
deuterons from (n,d)

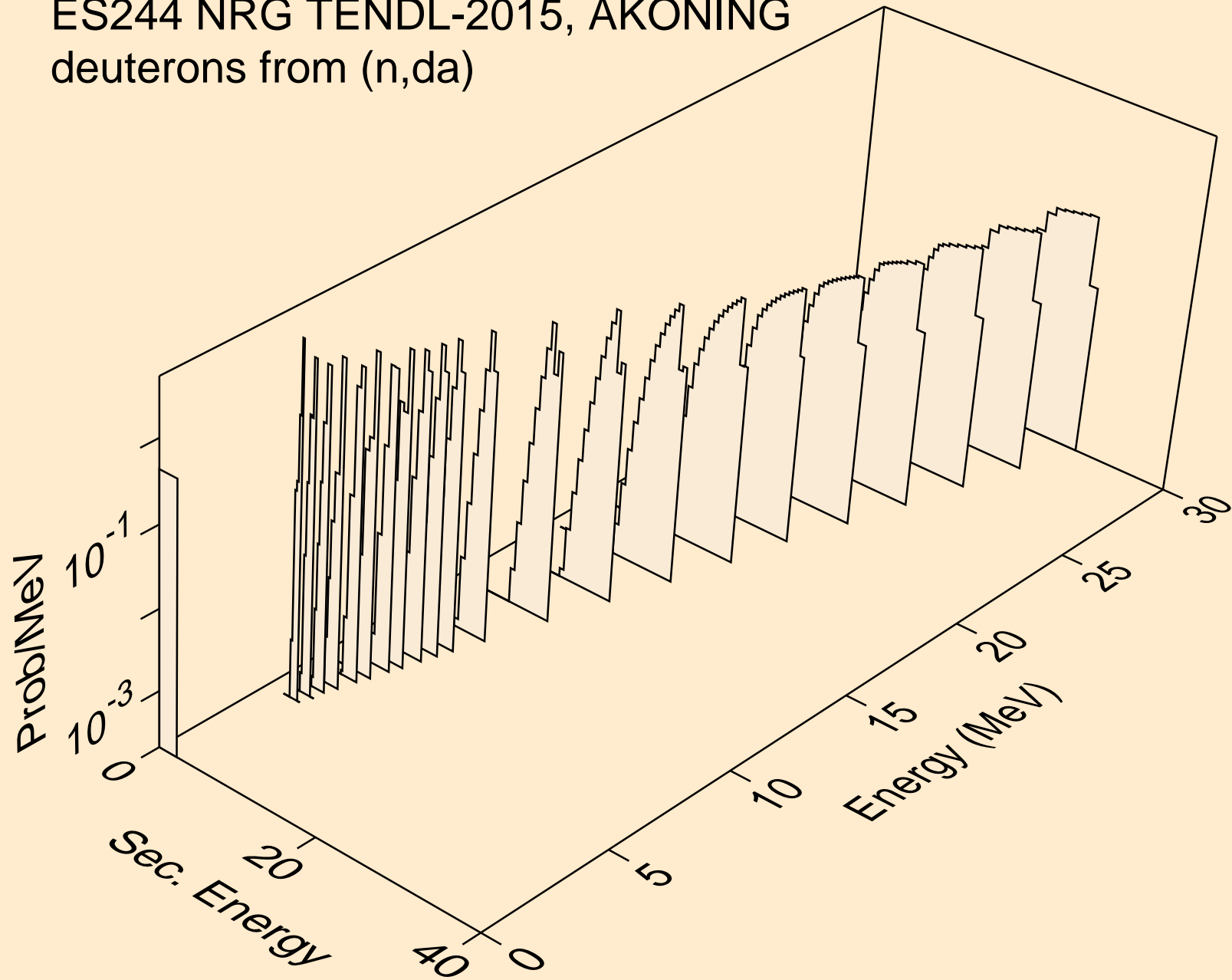




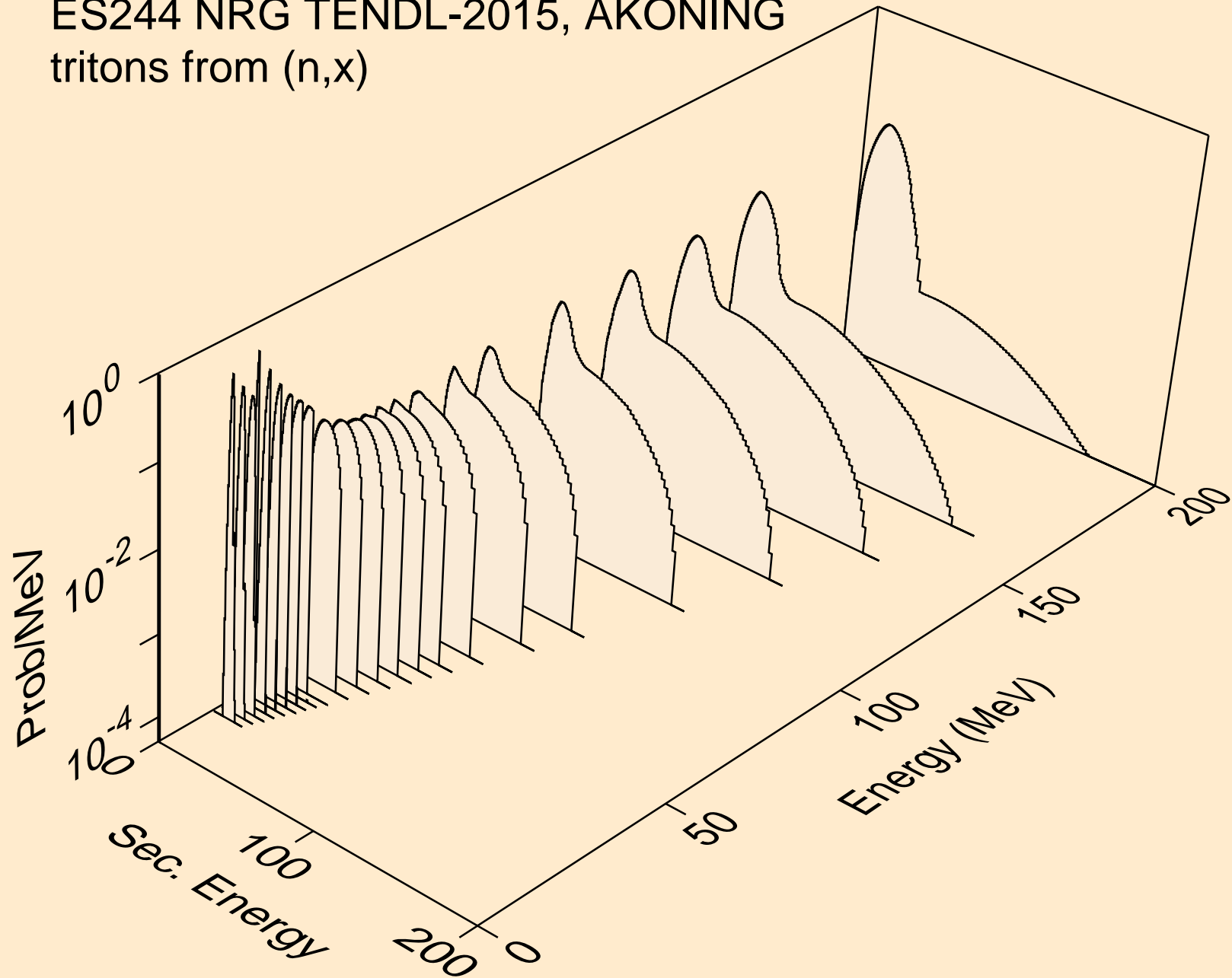
ES244 NRG TENDL-2015, AKONING  
deuterons from (n,pd)



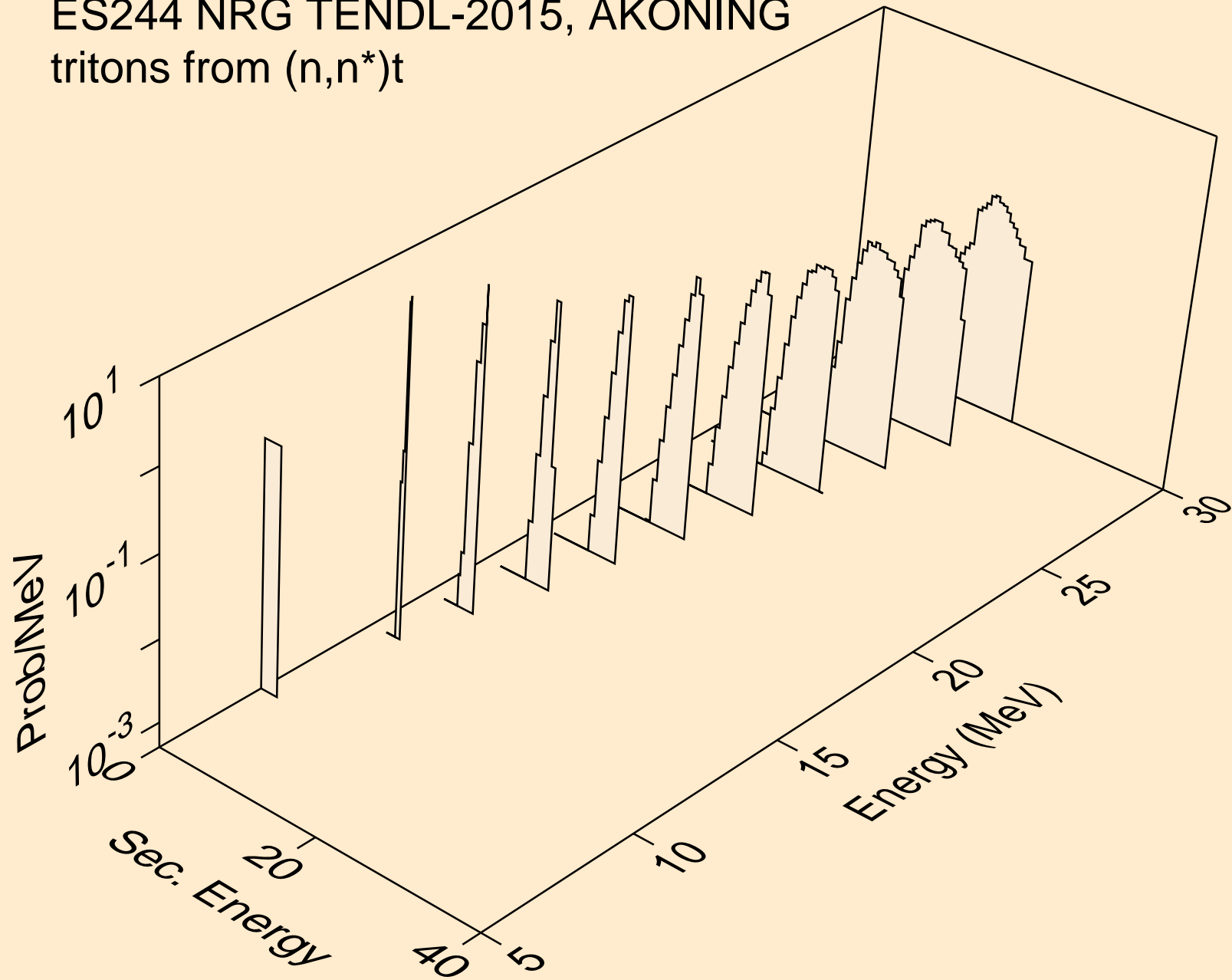
ES244 NRG TENDL-2015, AKONING  
deuterons from (n,da)



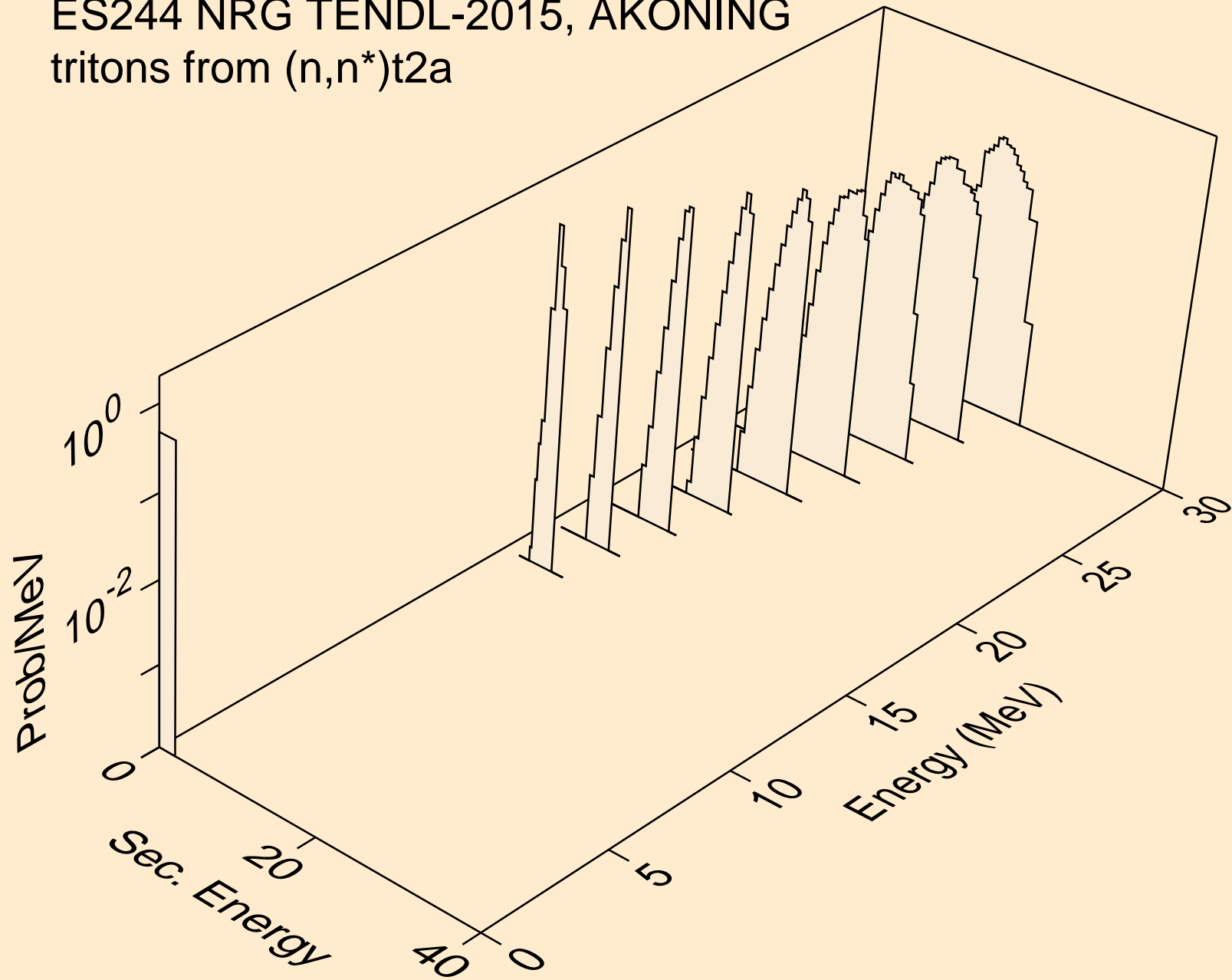
ES244 NRG TENDL-2015, AKONING  
tritons from (n,x)



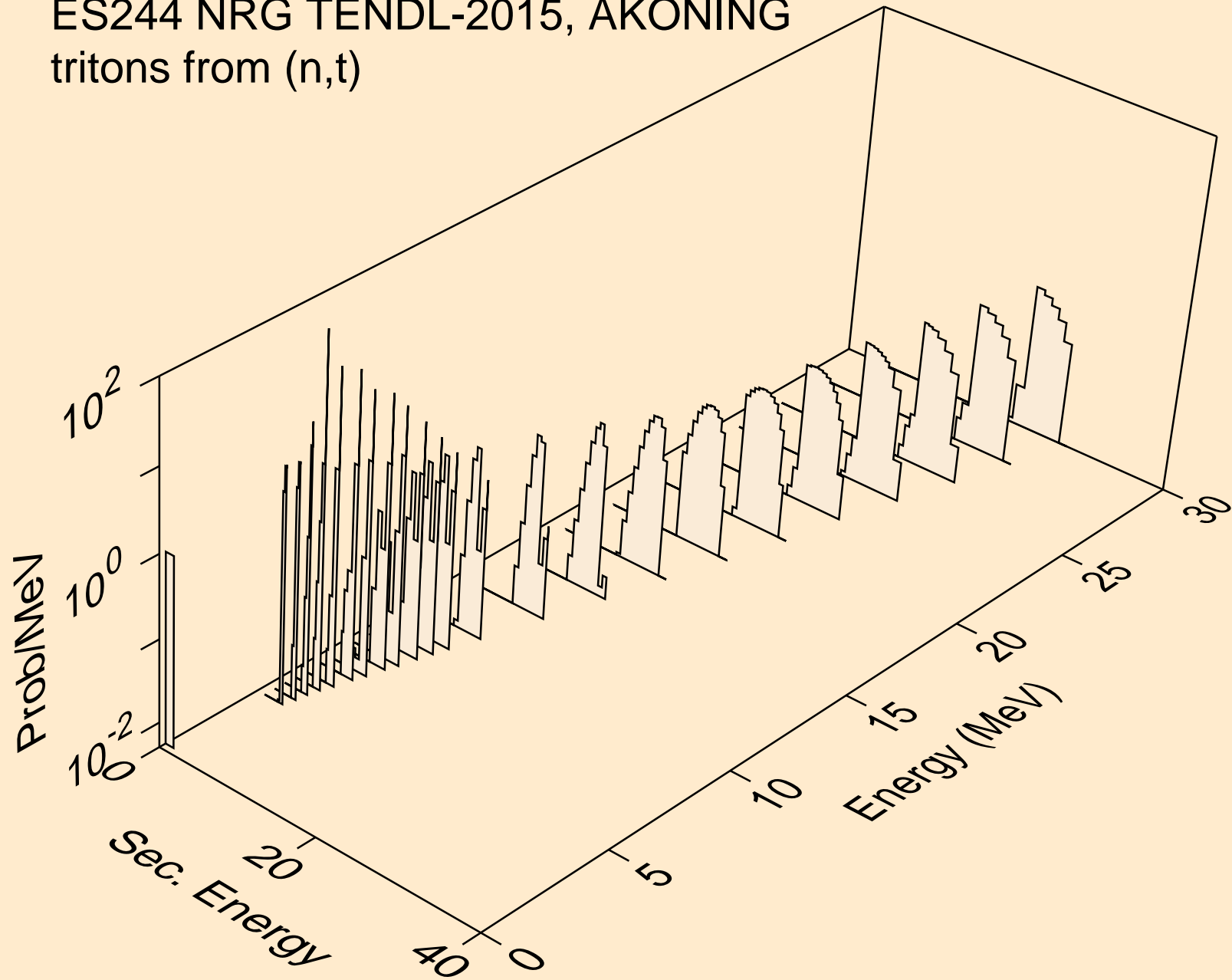
ES244 NRG TENDL-2015, AKONING  
tritons from (n,n\*)t



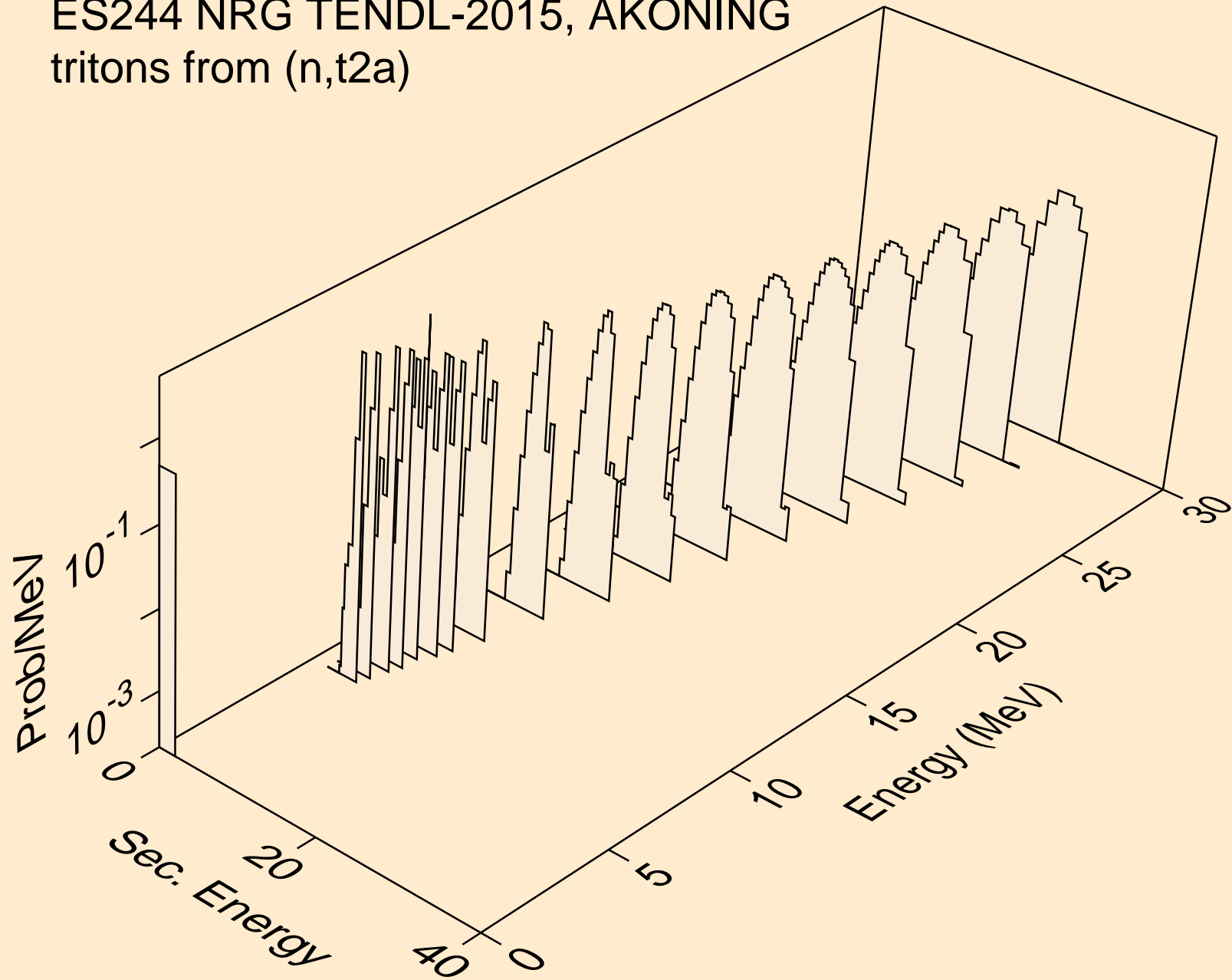
ES244 NRG TENDL-2015, AKONING  
tritons from (n,n\*)t2a



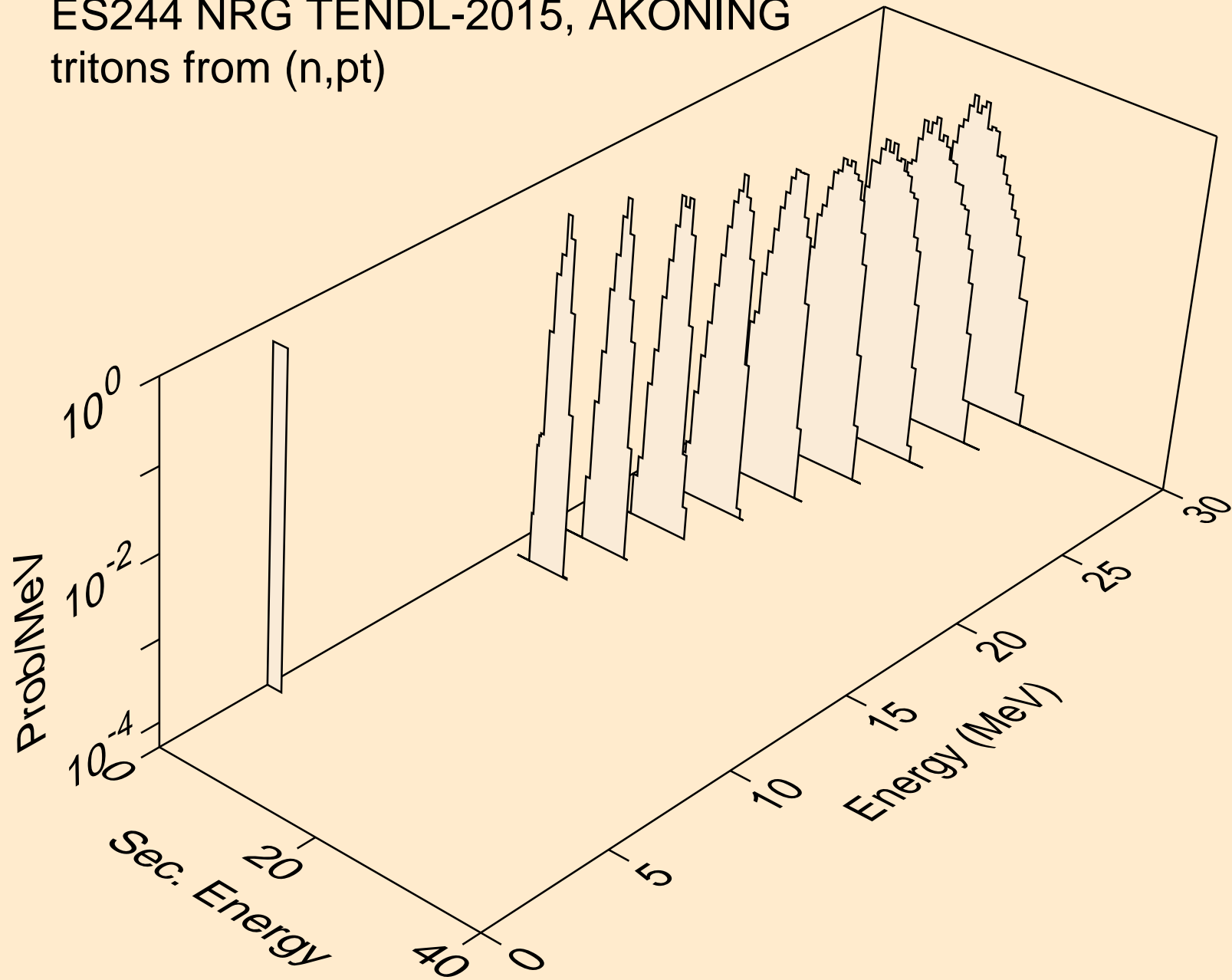
ES244 NRG TENDL-2015, AKONING  
tritons from (n,t)



ES244 NRG TENDL-2015, AKONING  
tritons from (n,t2a)

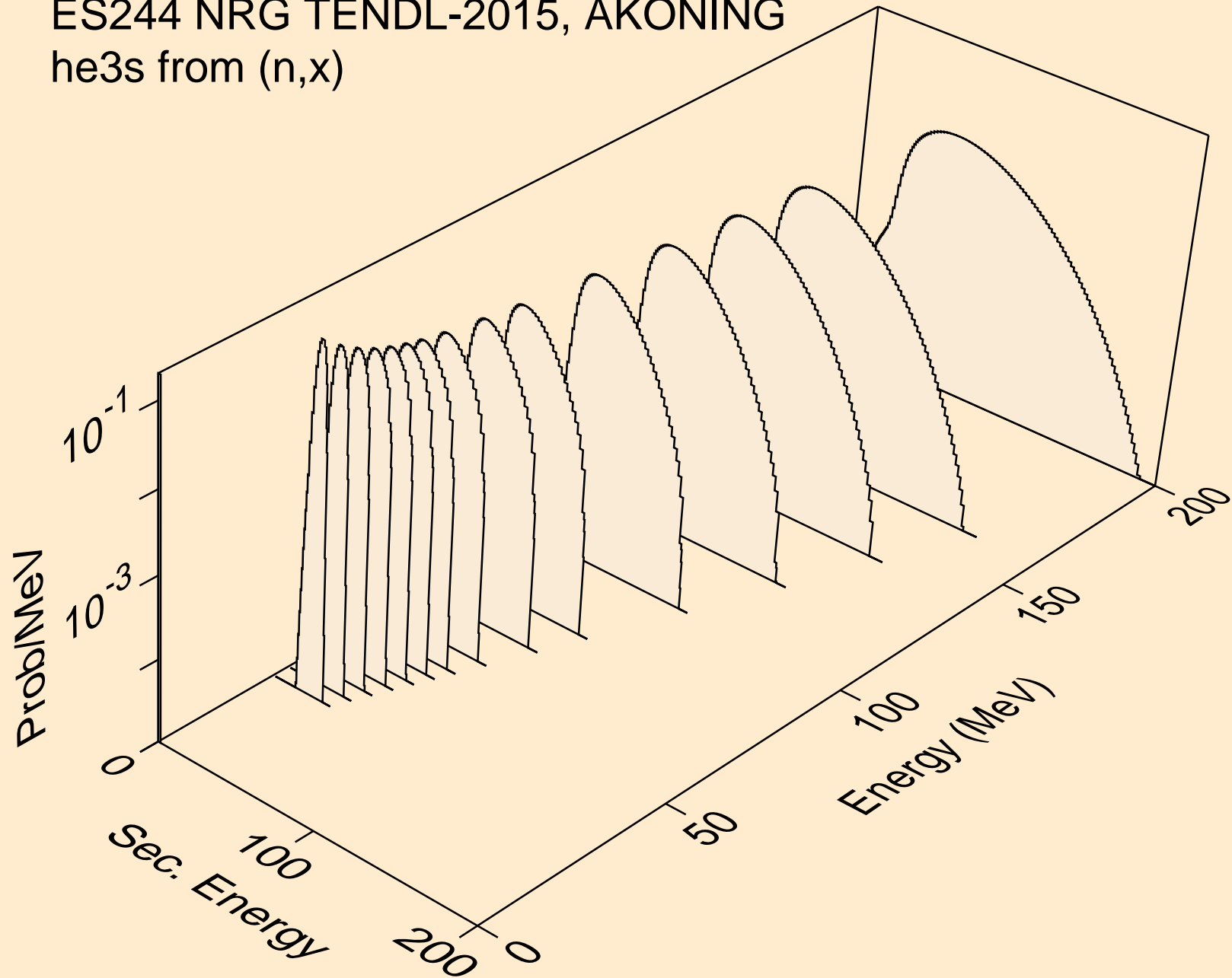


ES244 NRG TENDL-2015, AKONING  
tritons from (n,pt)

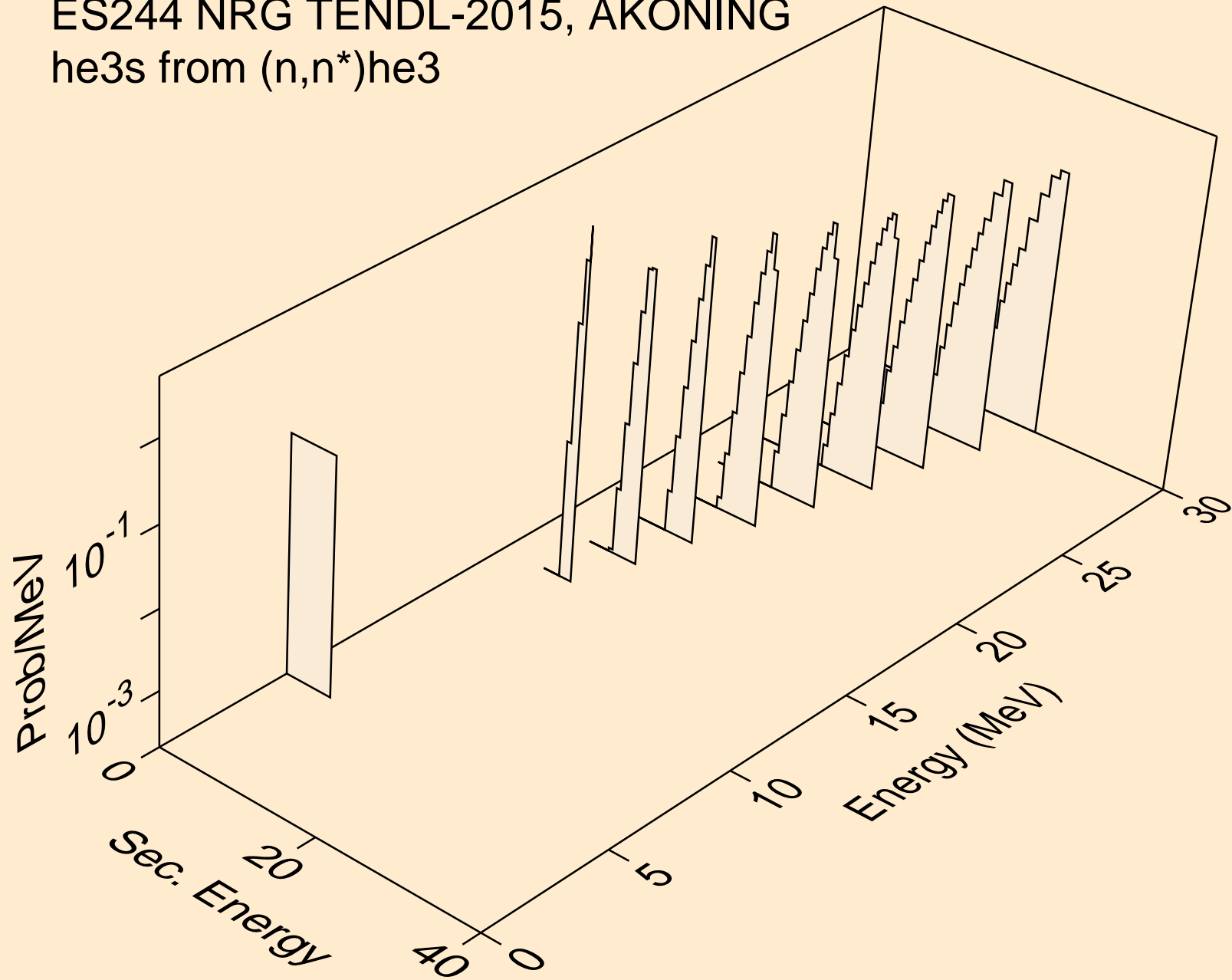




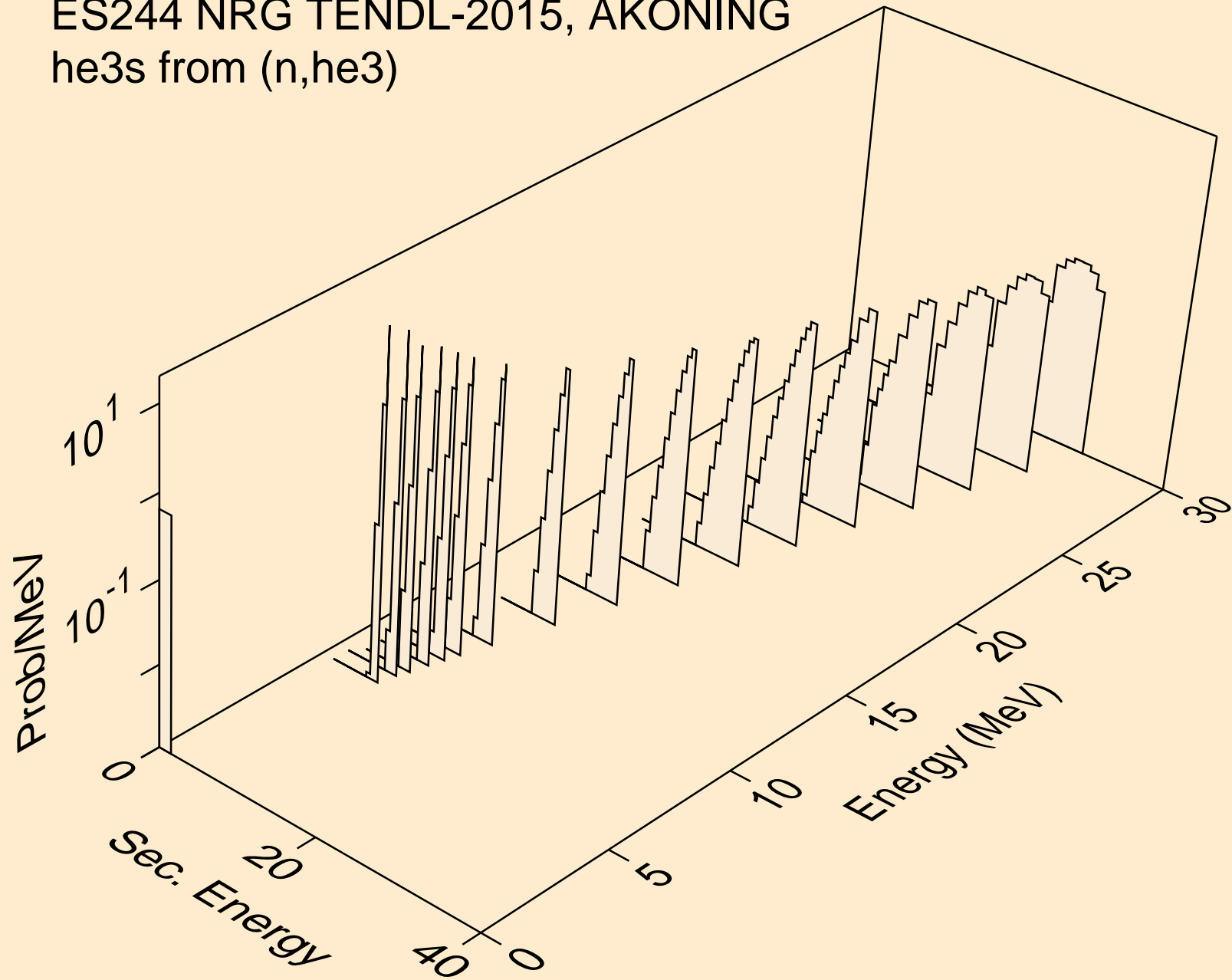
ES244 NRG TENDL-2015, AKONING  
he3s from (n,x)



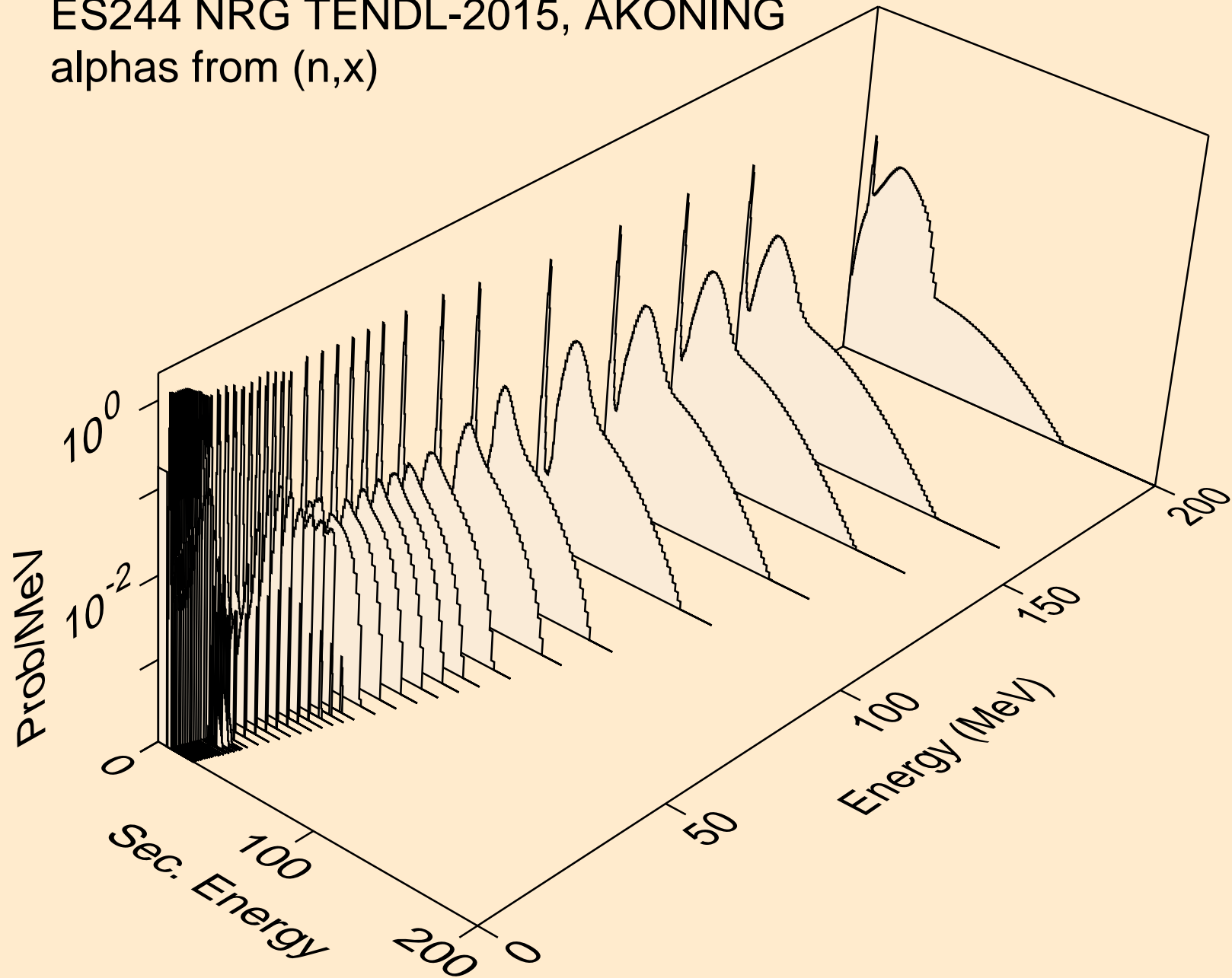
ES244 NRG TENDL-2015, AKONING  
he3s from (n,n\*)he3



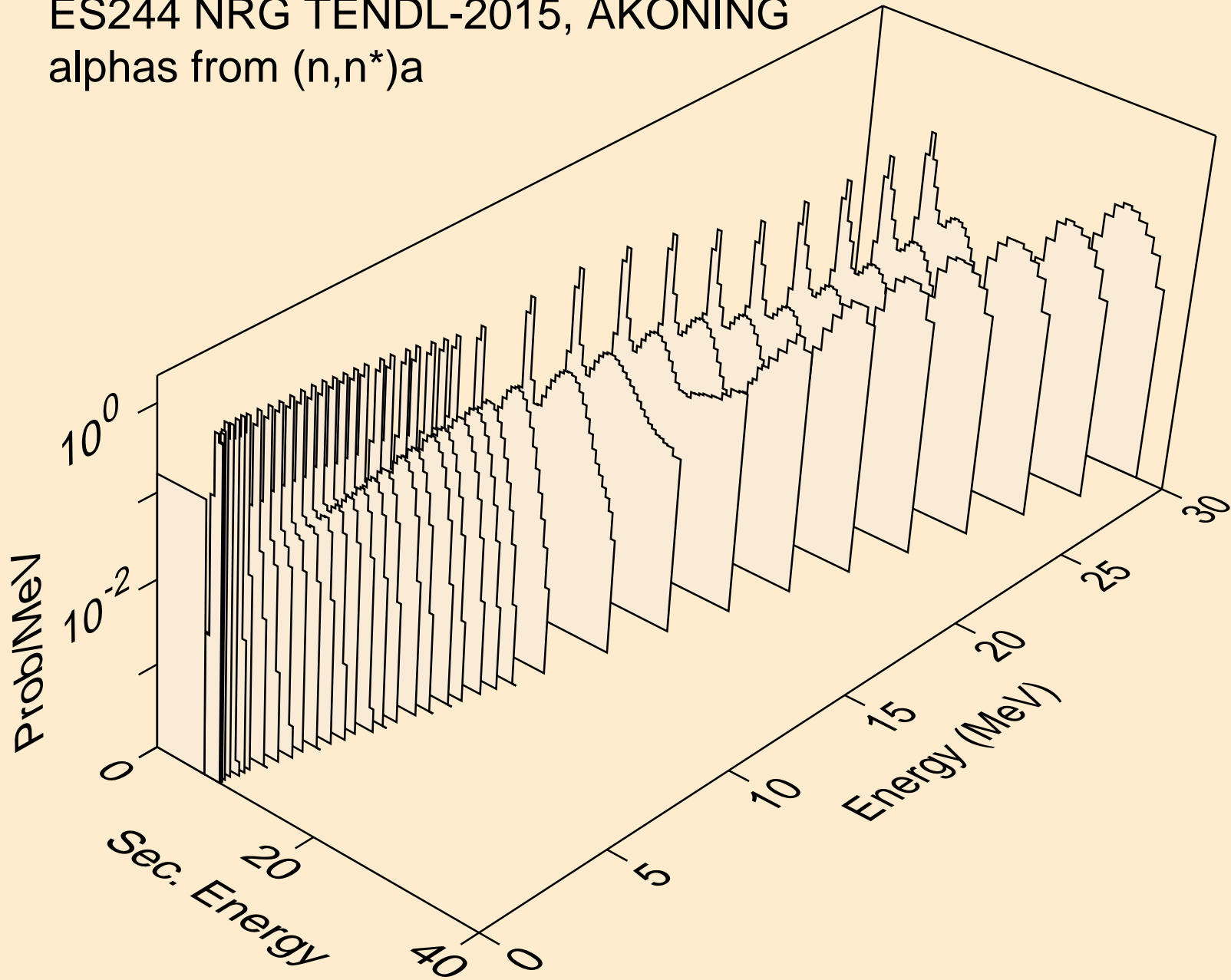
ES244 NRG TENDL-2015, AKONING  
he3s from (n,he3)



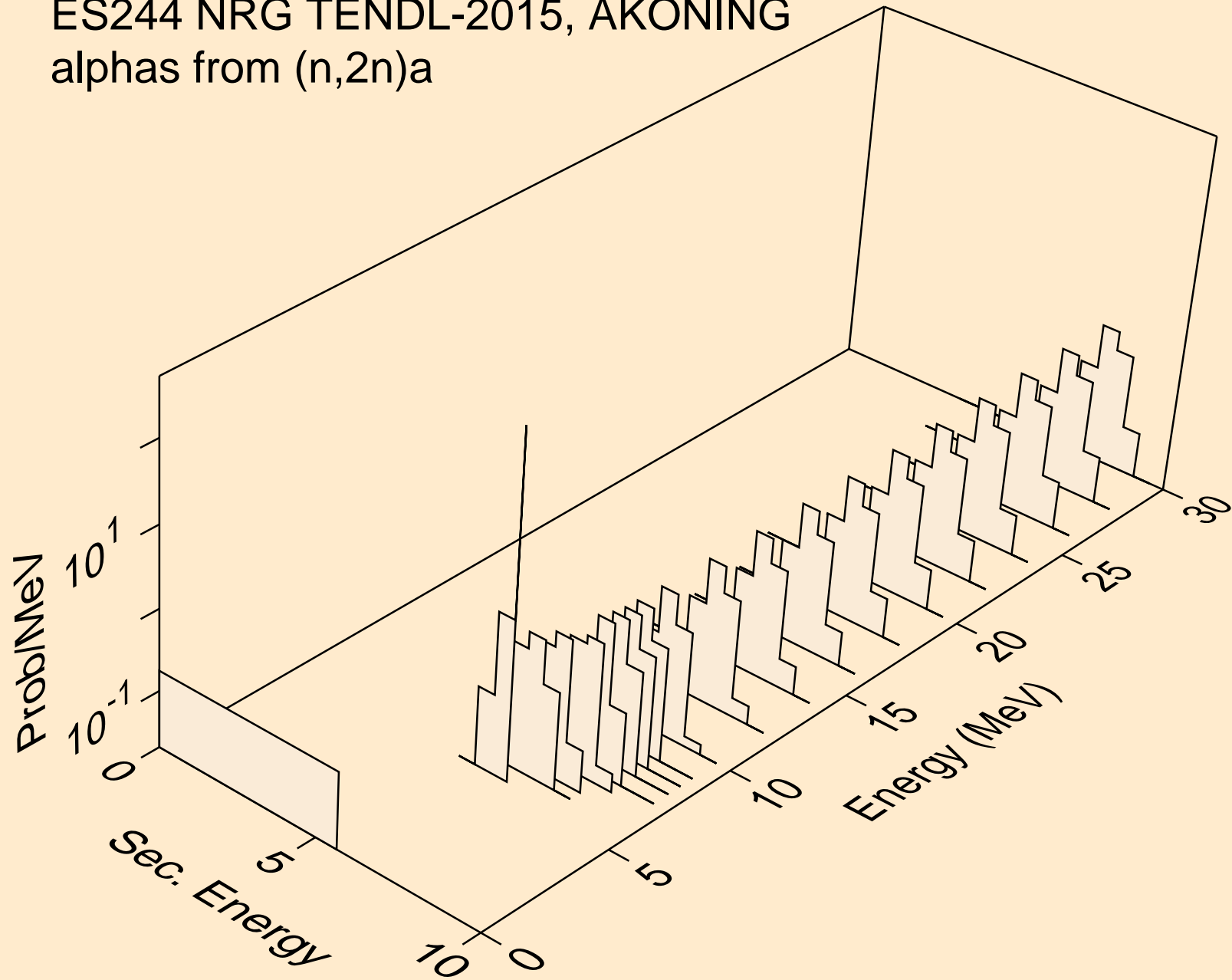
ES244 NRG TENDL-2015, AKONING  
alphas from (n,x)



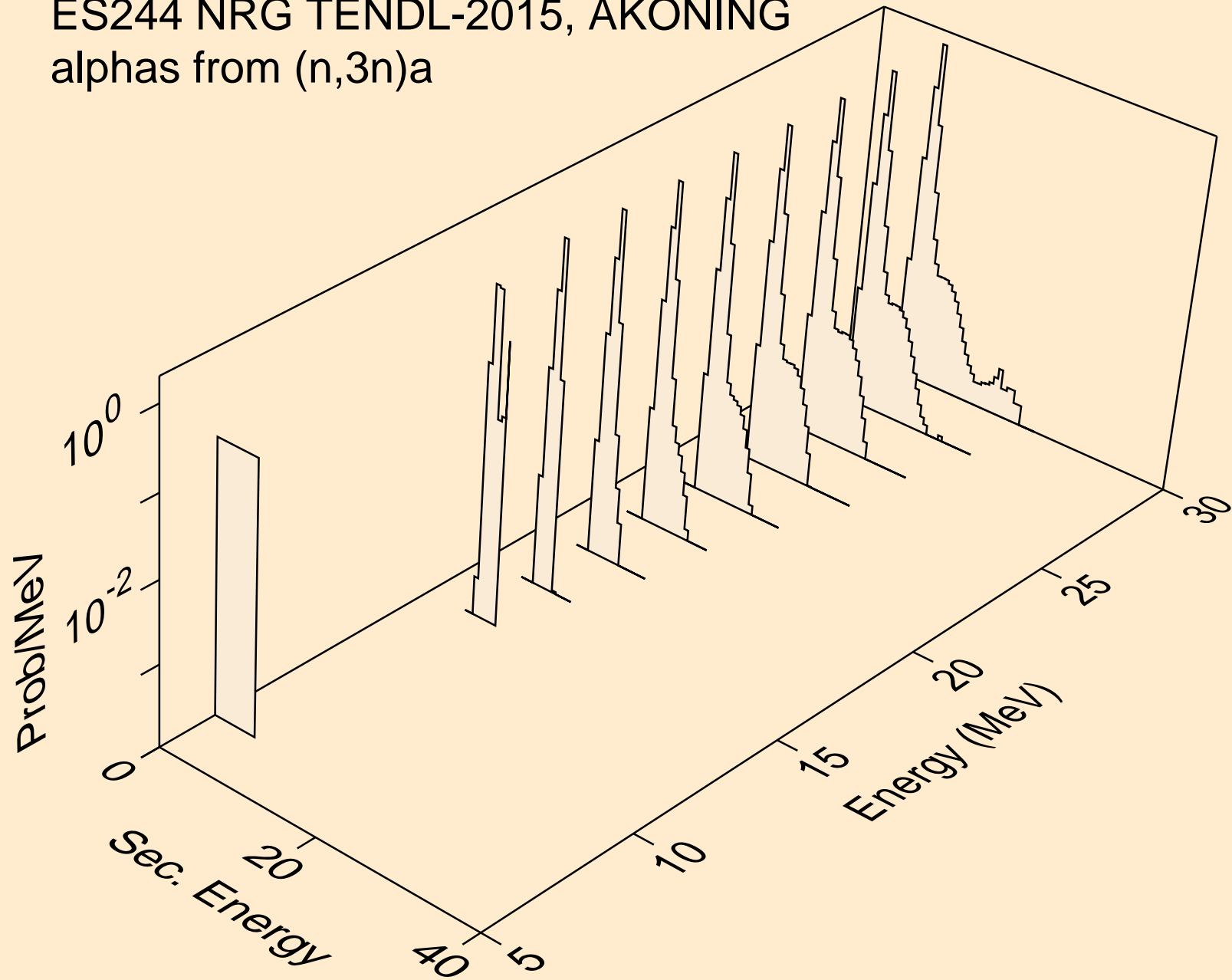
ES244 NRG TENDL-2015, AKONING  
alphas from (n,n\*)a



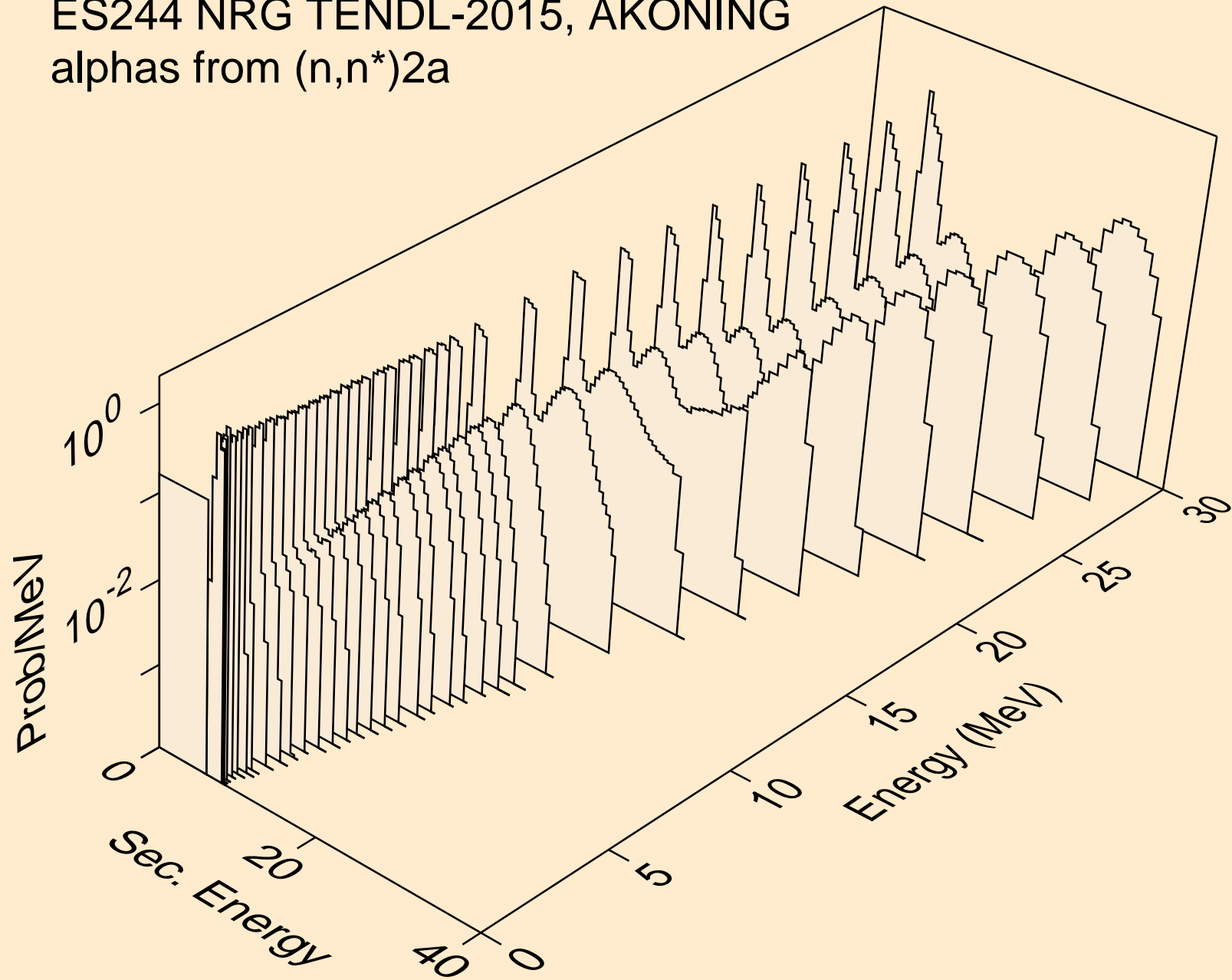
ES244 NRG TENDL-2015, AKONING  
alphas from (n,2n)a



ES244 NRG TENDL-2015, AKONING  
alphas from (n,3n)a

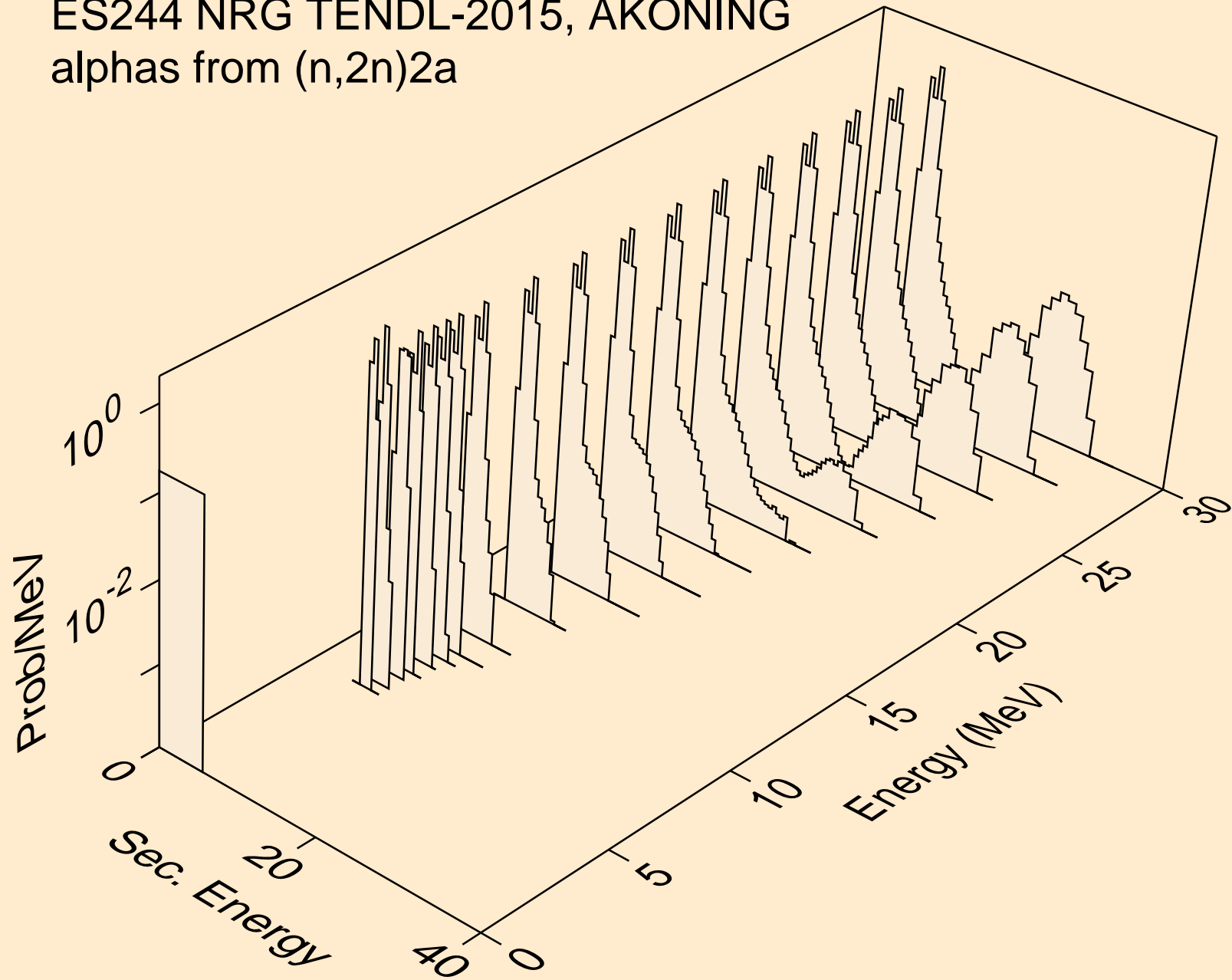


ES244 NRG TENDL-2015, AKONING  
alphas from (n,n\*)2a

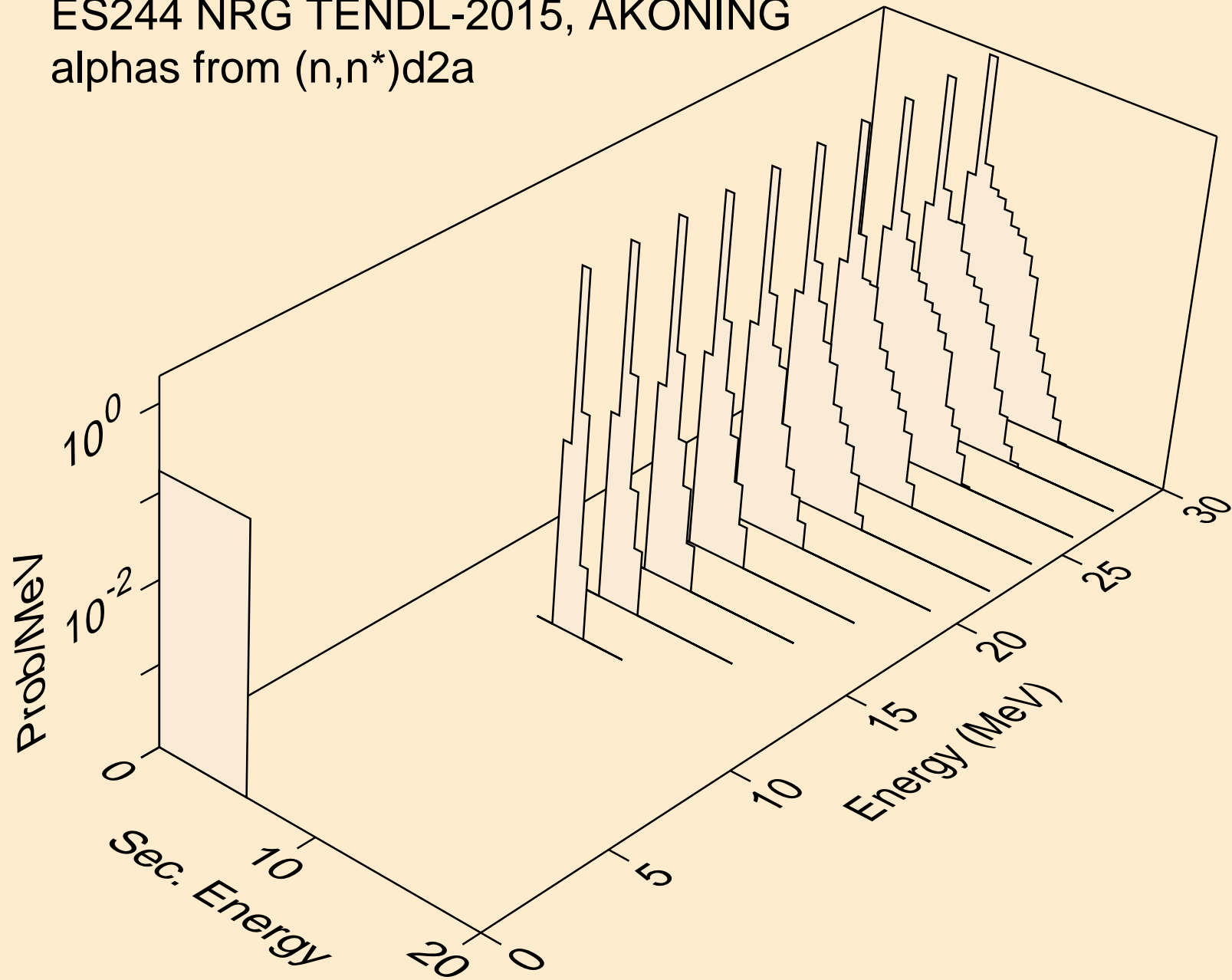




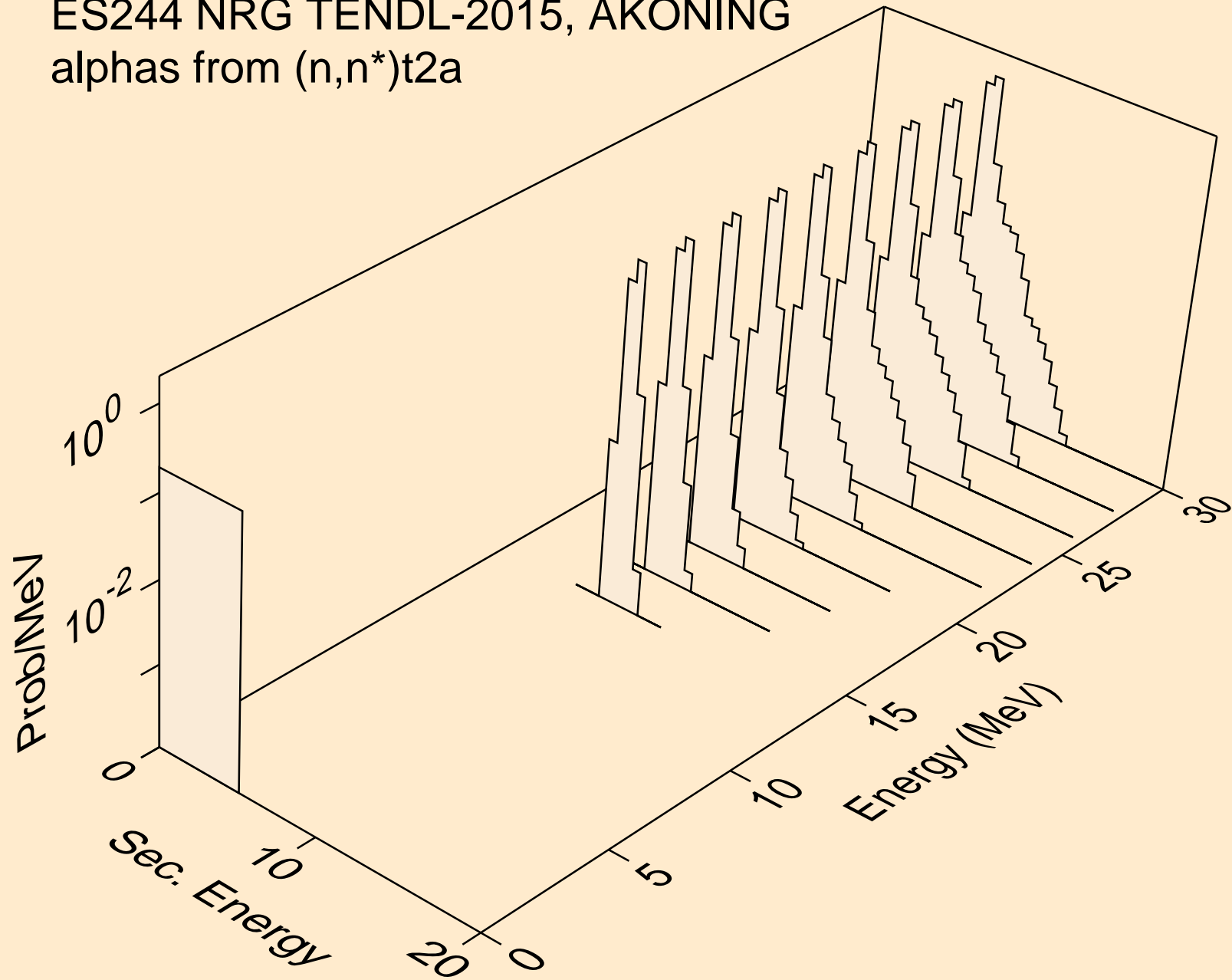
ES244 NRG TENDL-2015, AKONING  
alphas from (n,2n)2a



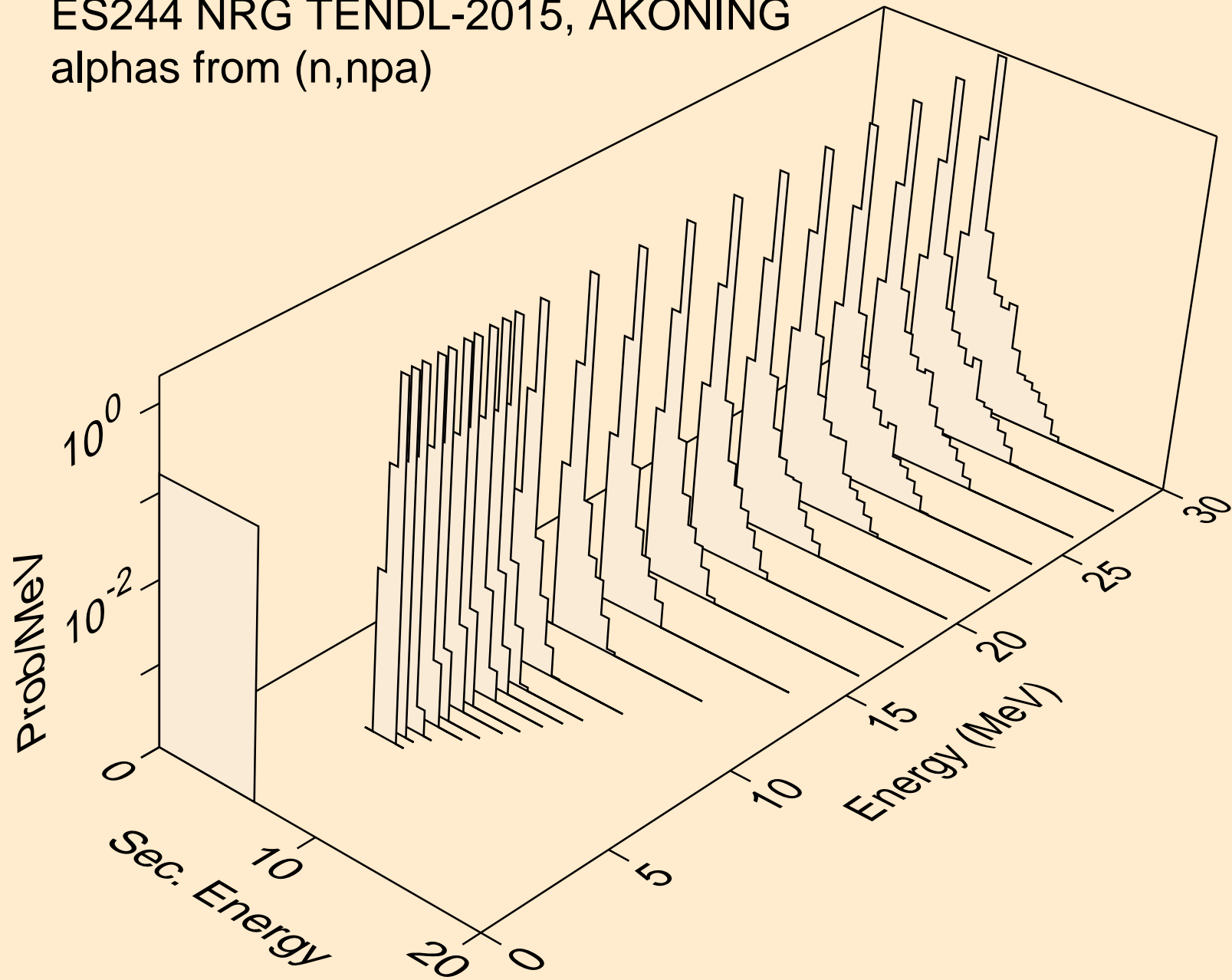
ES244 NRG TENDL-2015, AKONING  
alphas from (n,n\*)d2a



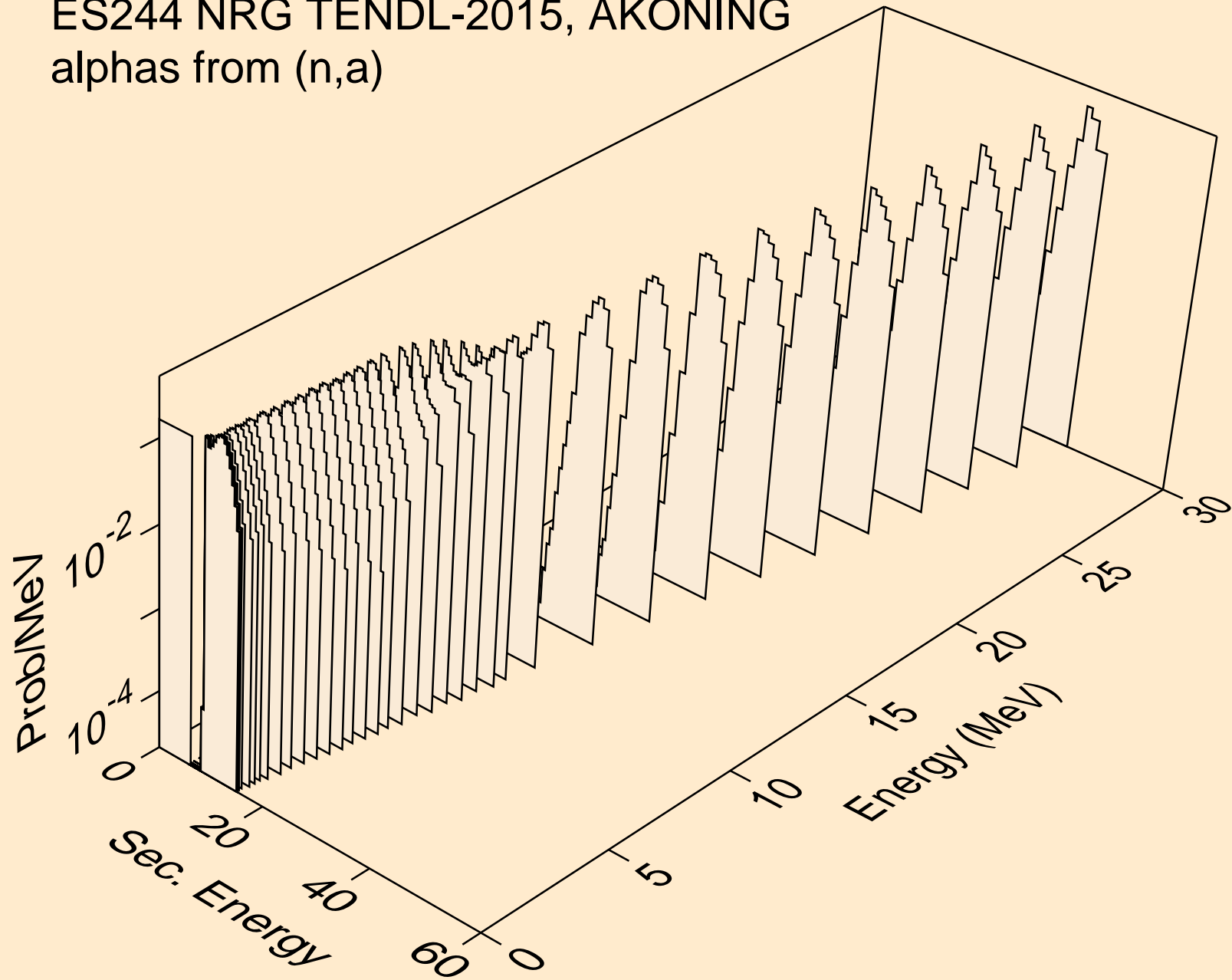
ES244 NRG TENDL-2015, AKONING  
alphas from (n,n\*)t2a



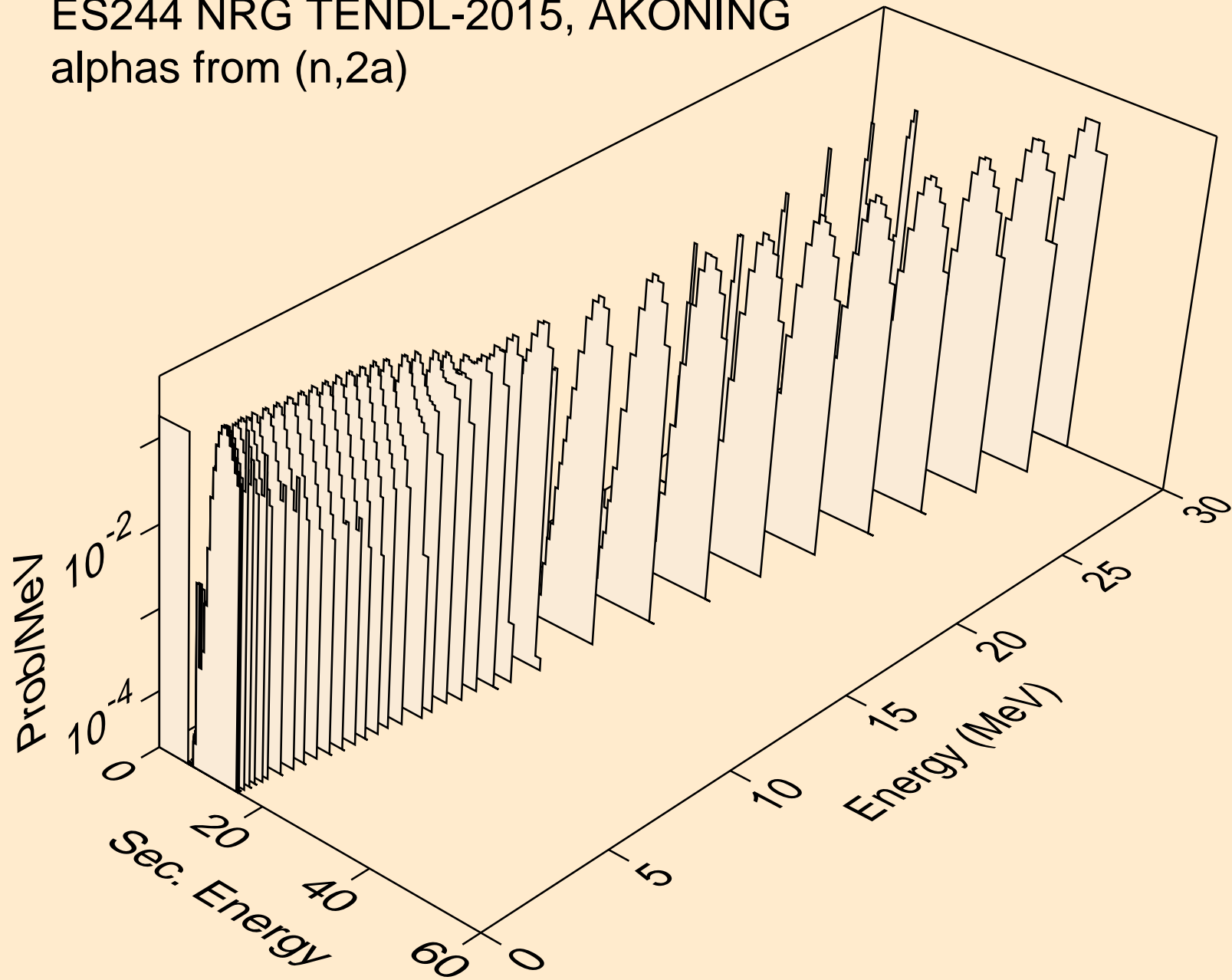
ES244 NRG TENDL-2015, AKONING  
alphas from (n,npa)



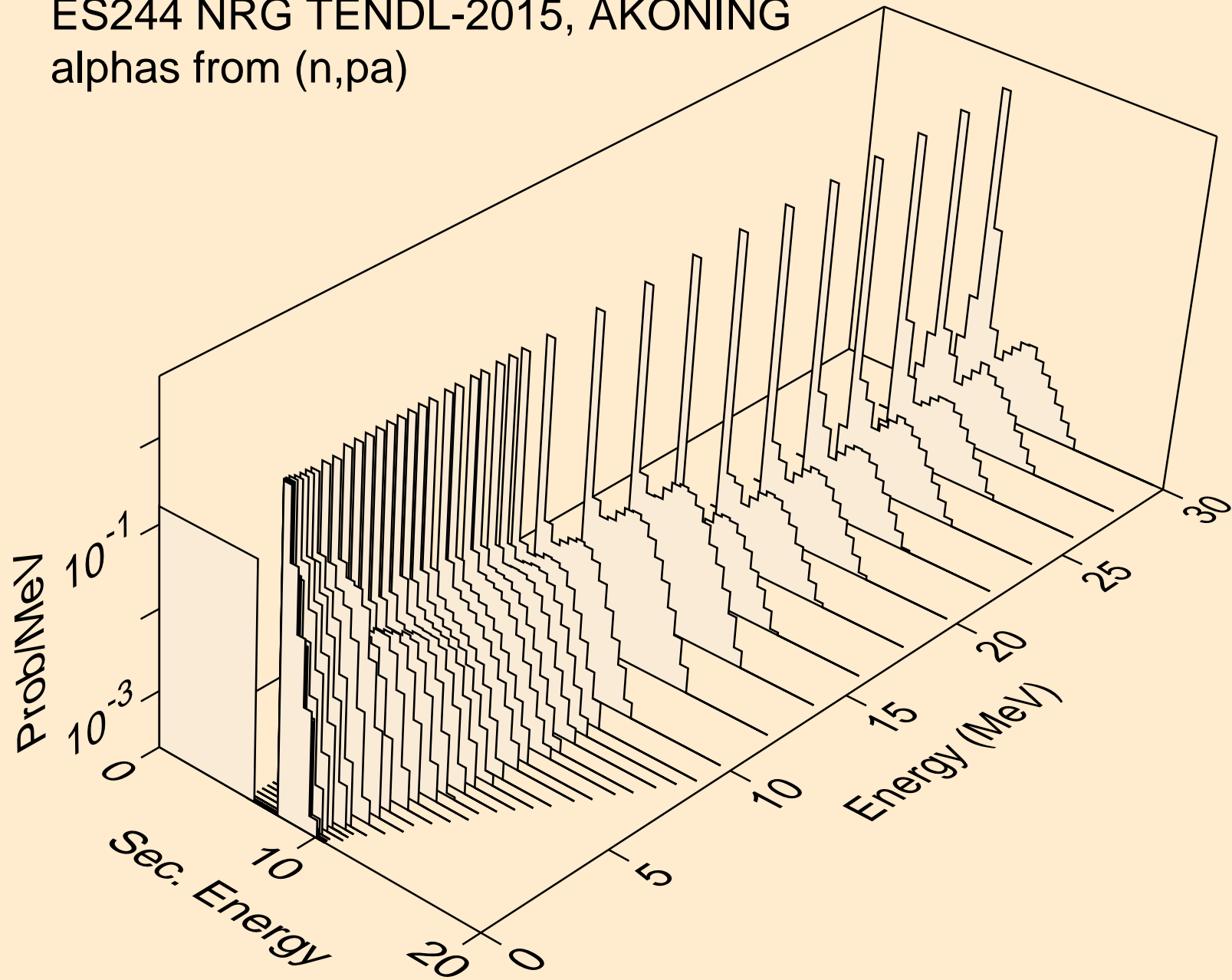
ES244 NRG TENDL-2015, AKONING  
alphas from (n,a)



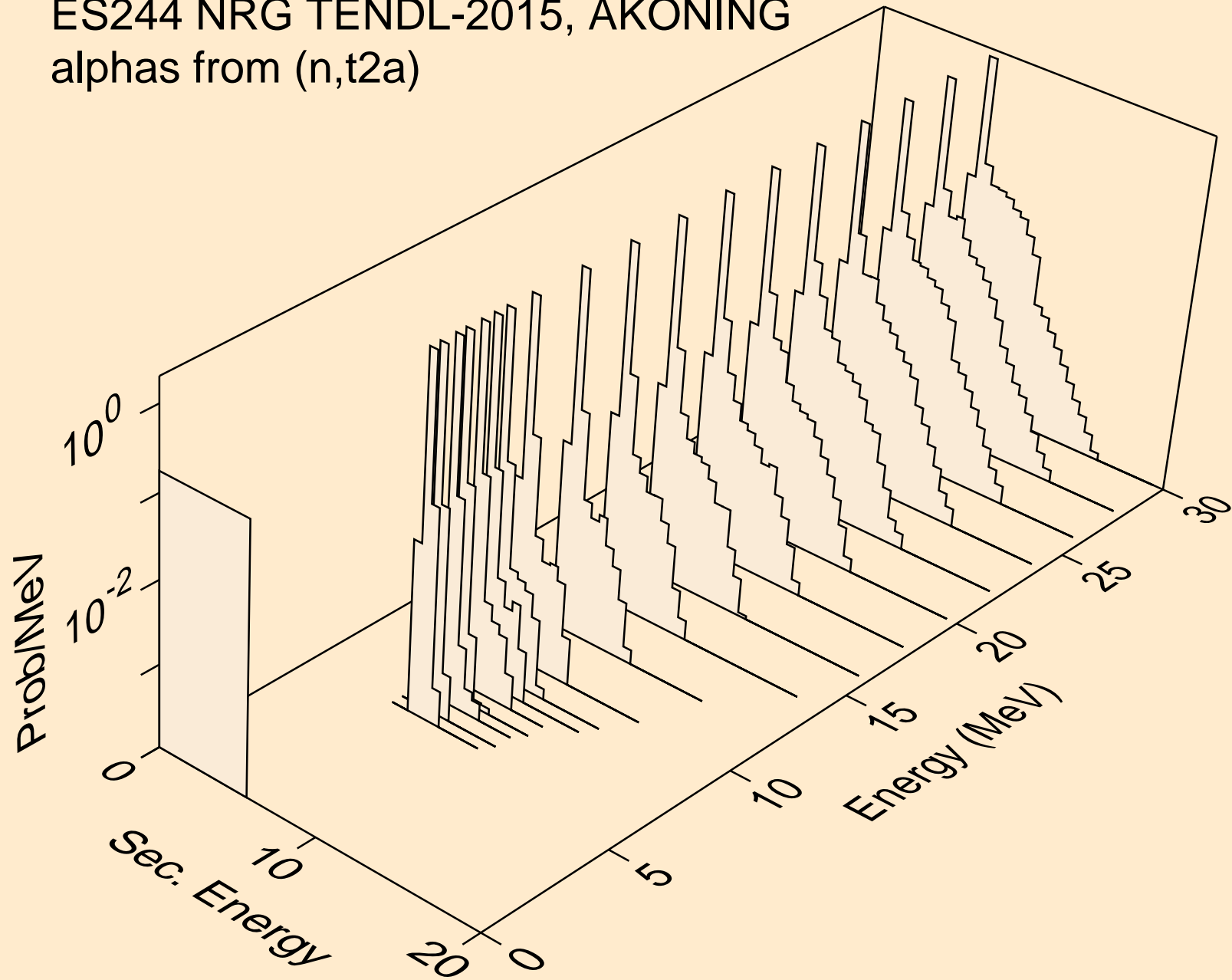
ES244 NRG TENDL-2015, AKONING  
alphas from (n,2a)



ES244 NRG TENDL-2015, AKONING  
alphas from (n,pa)



ES244 NRG TENDL-2015, AKONING  
alphas from (n,t2a)





ES244 NRG TENDL-2015, AKONING  
alphas from (n,da)

