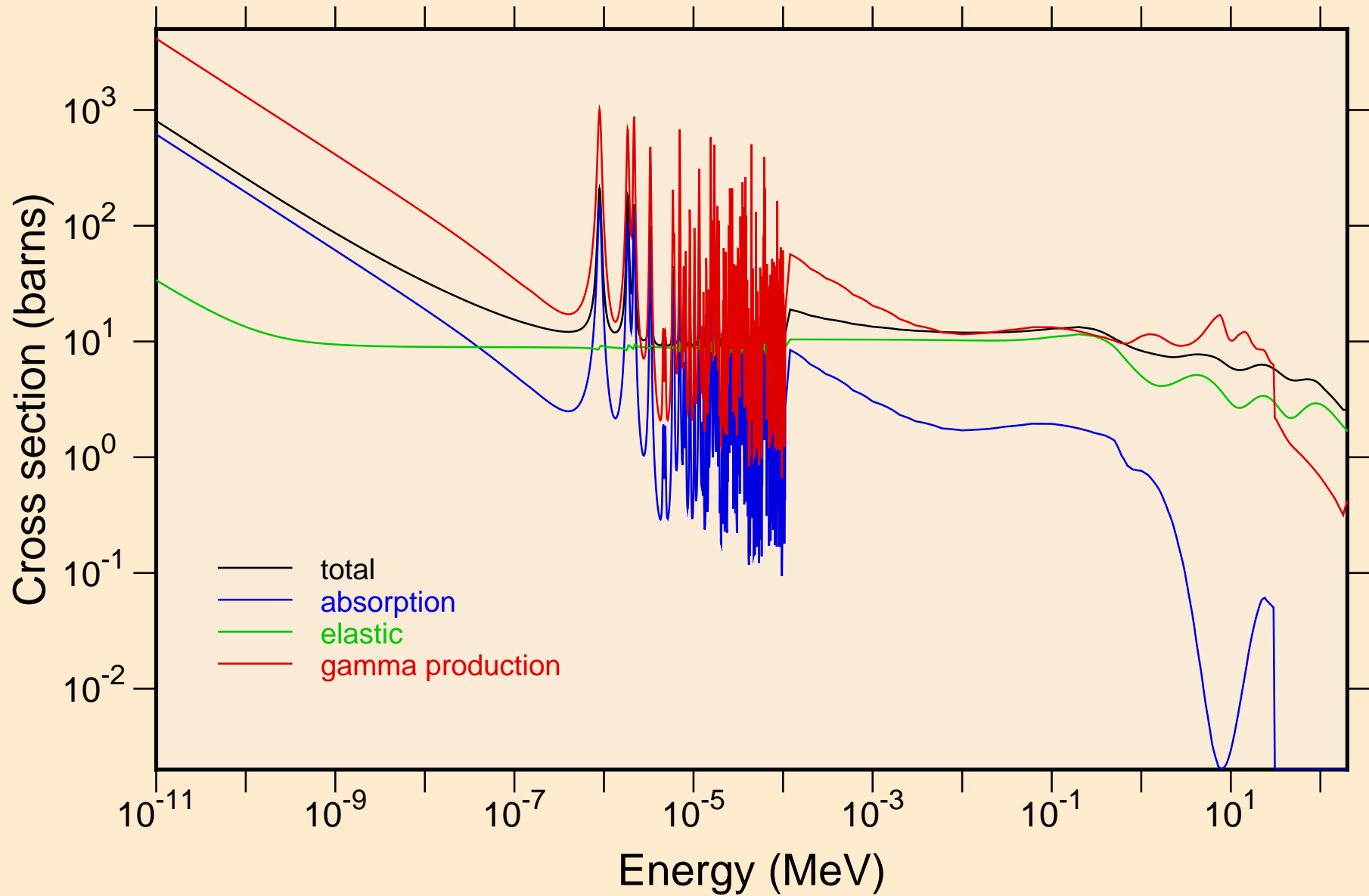
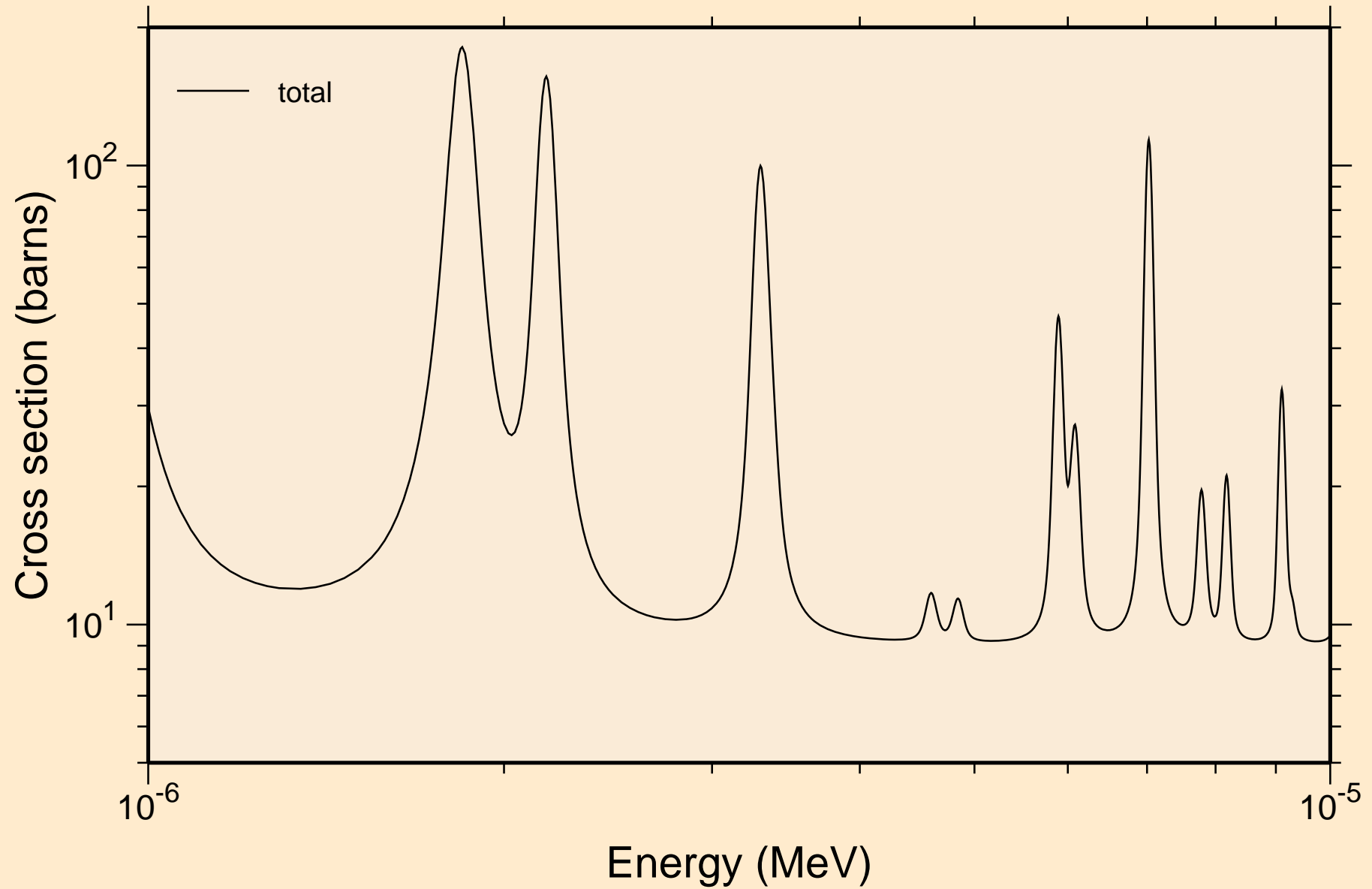


# ES247 NRG TENDL-2015, AKONING

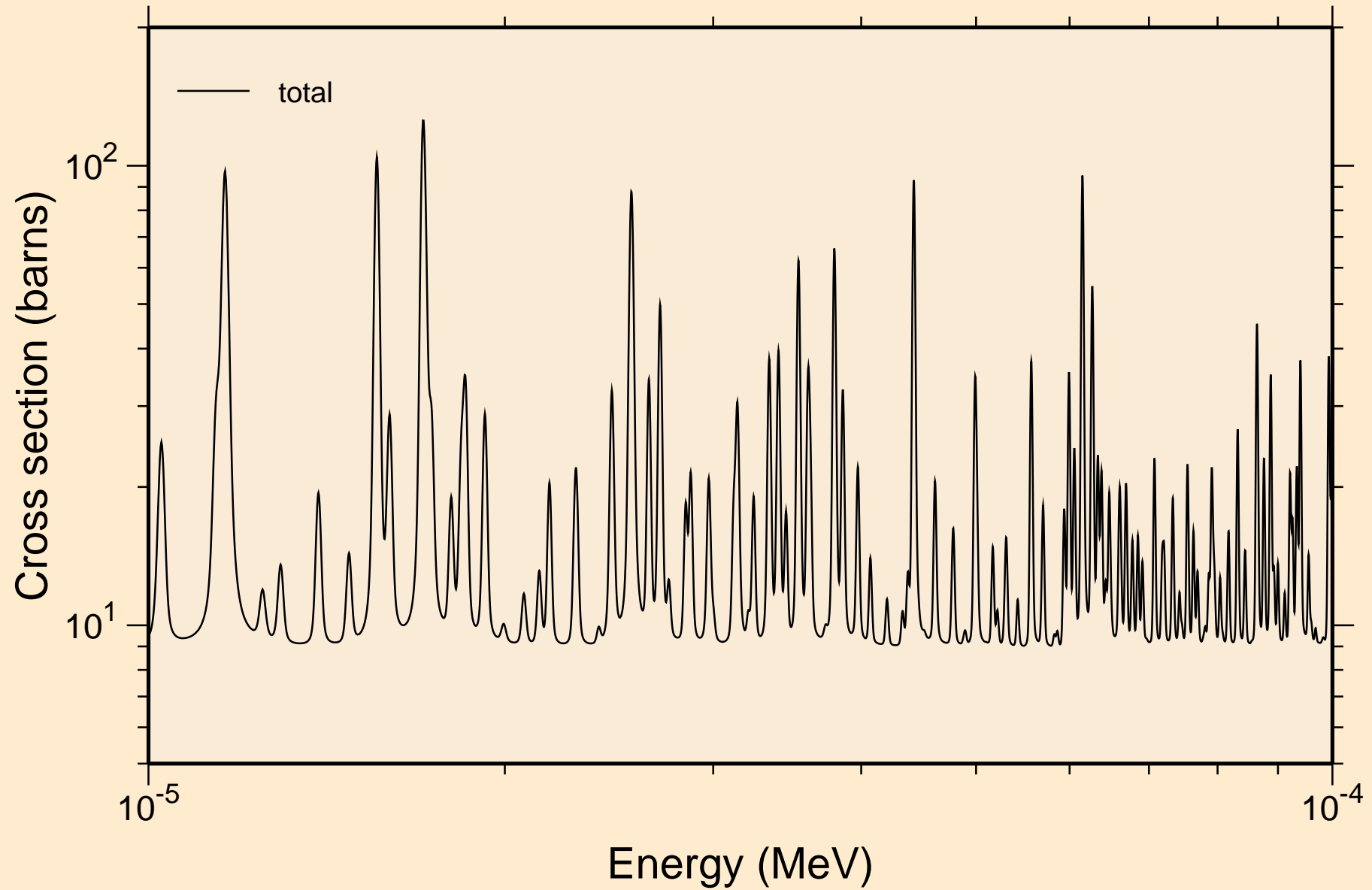
## Principal cross sections



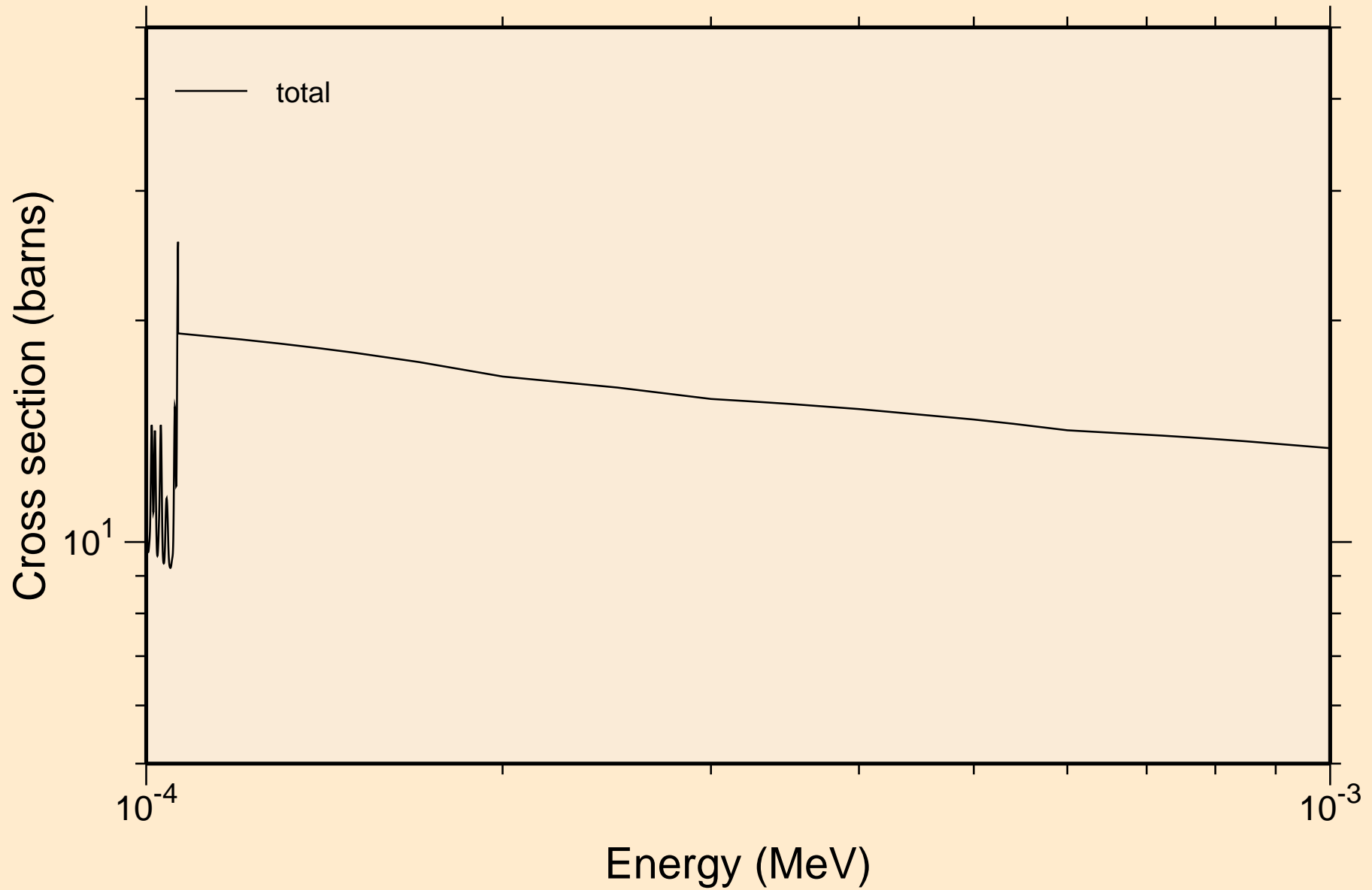
ES247 NRG TENDL-2015, AKONING  
resonance total cross section



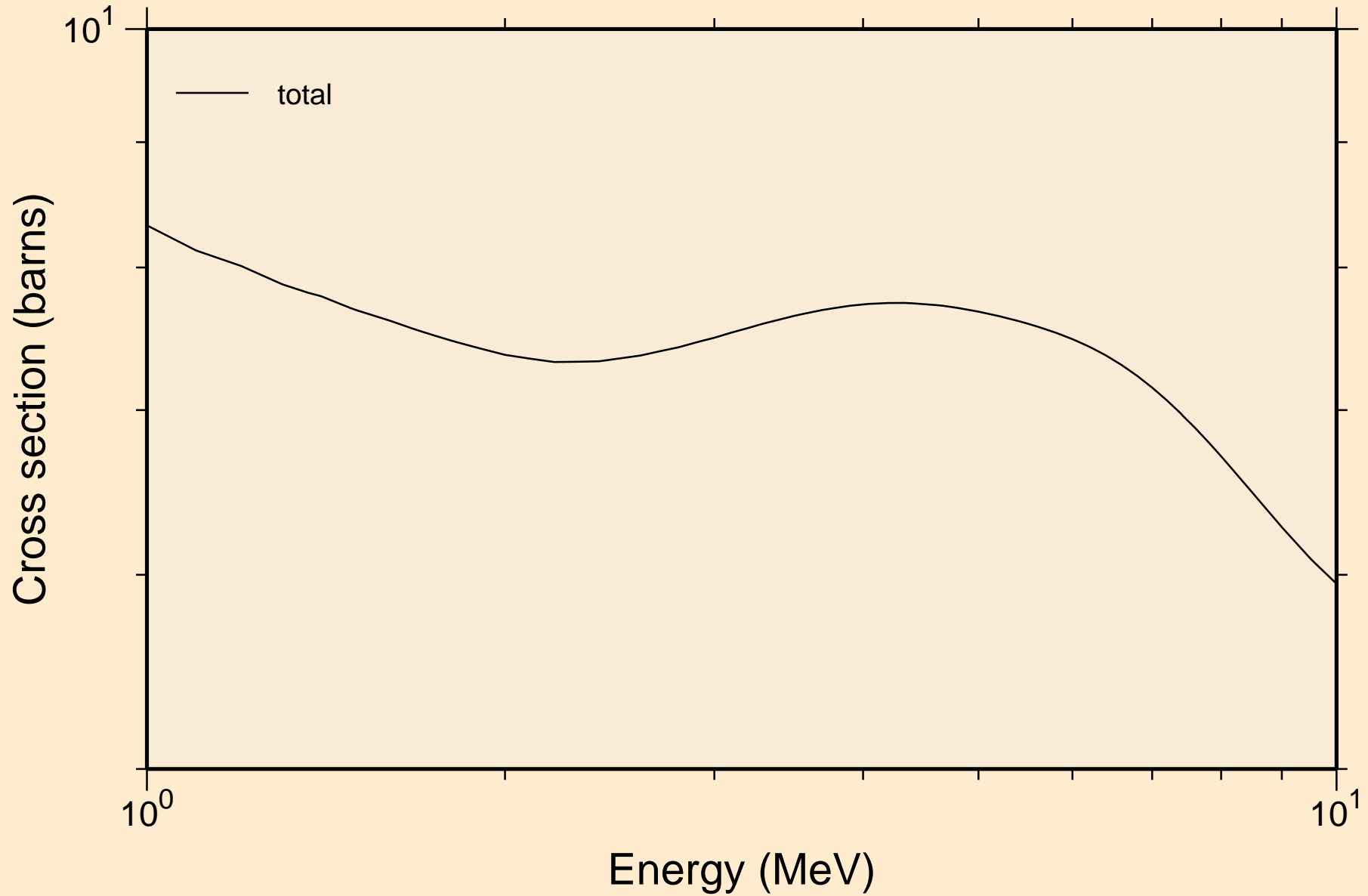
ES247 NRG TENDL-2015, AKONING  
resonance total cross section



ES247 NRG TENDL-2015, AKONING  
resonance total cross section

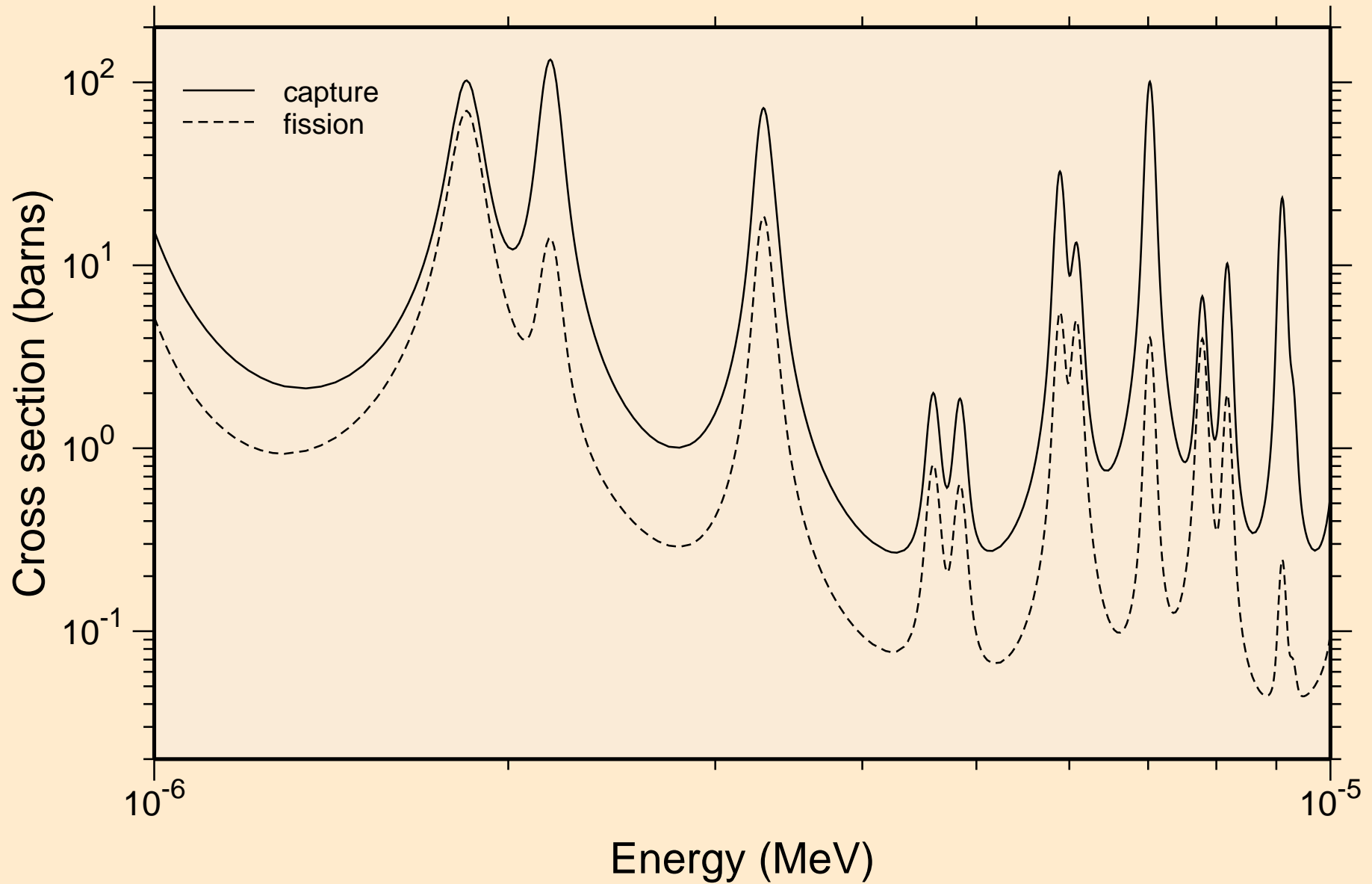


ES247 NRG TENDL-2015, AKONING  
resonance total cross section



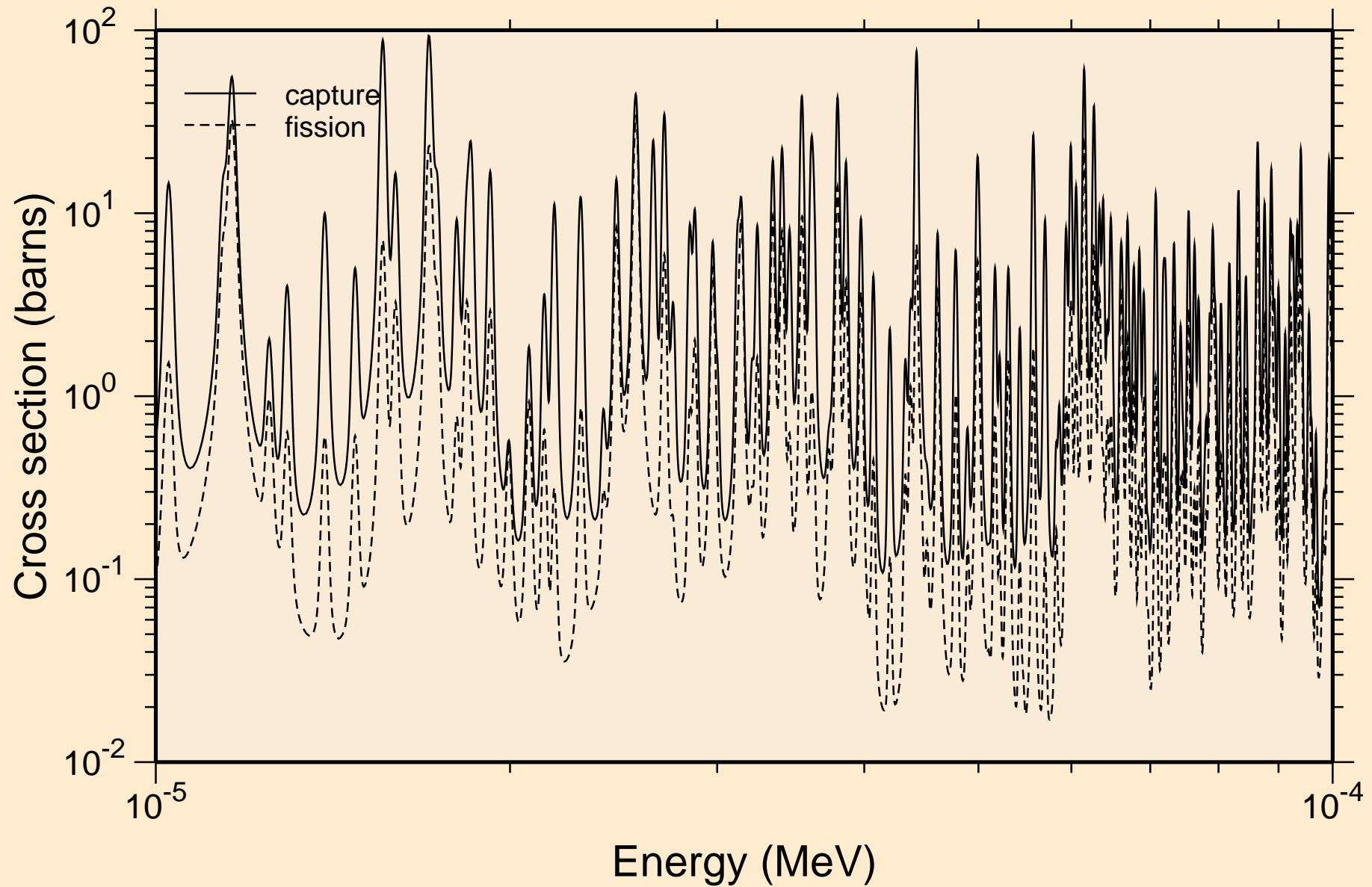
# ES247 NRG TENDL-2015, AKONING

## resonance absorption cross sections

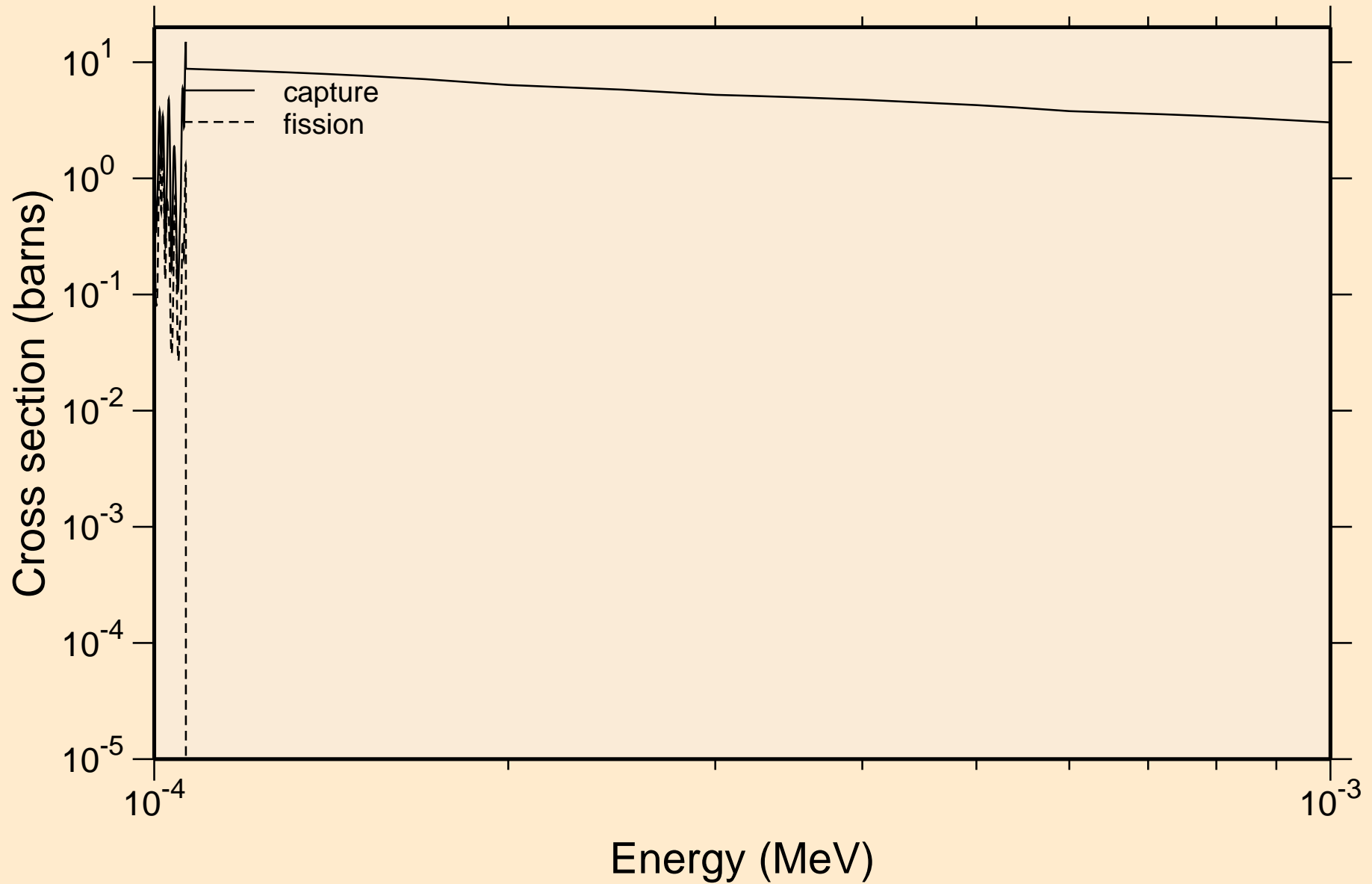


# ES247 NRG TENDL-2015, AKONING

## resonance absorption cross sections



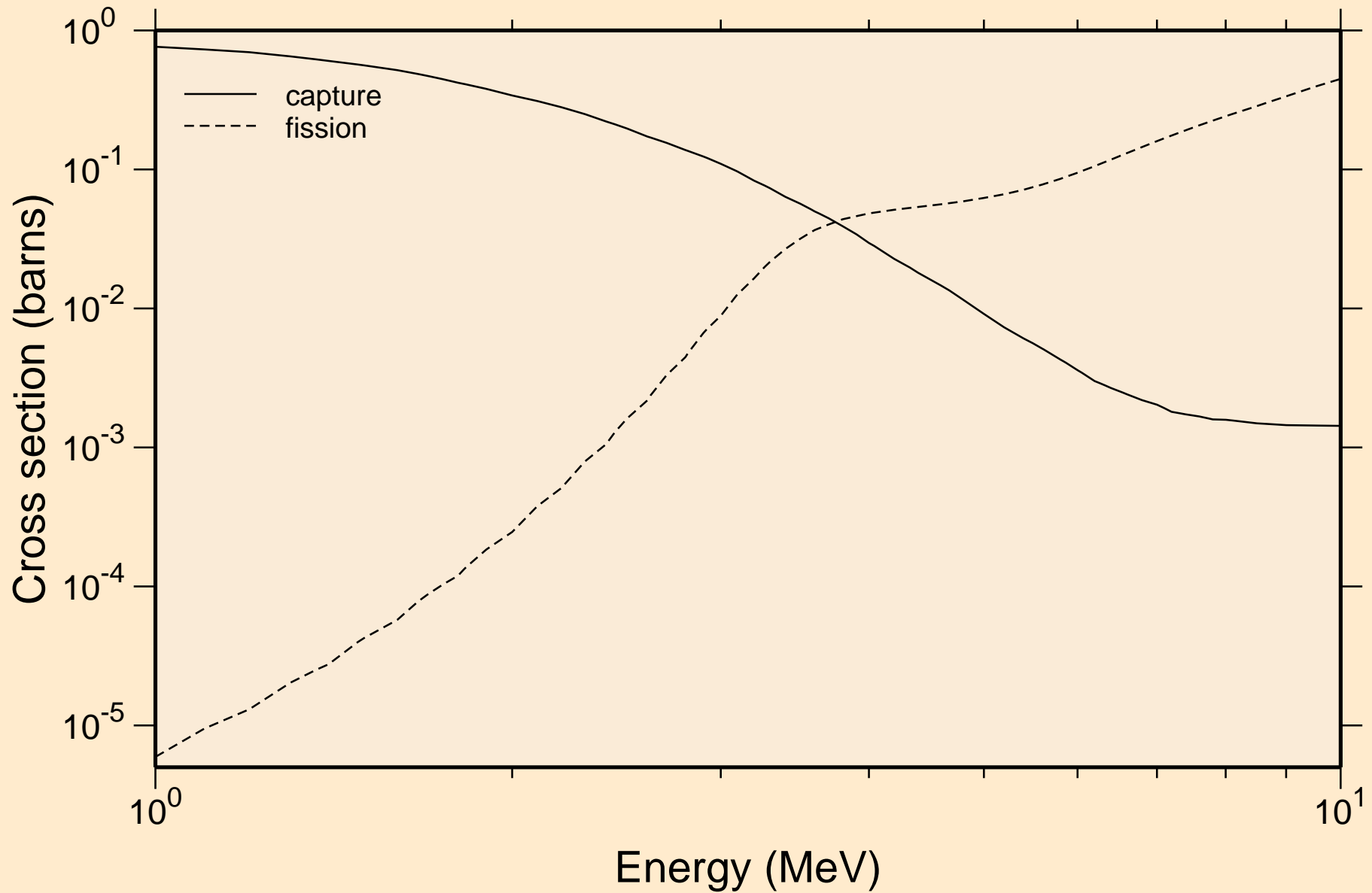
ES247 NRG TENDL-2015, AKONING  
resonance absorption cross sections





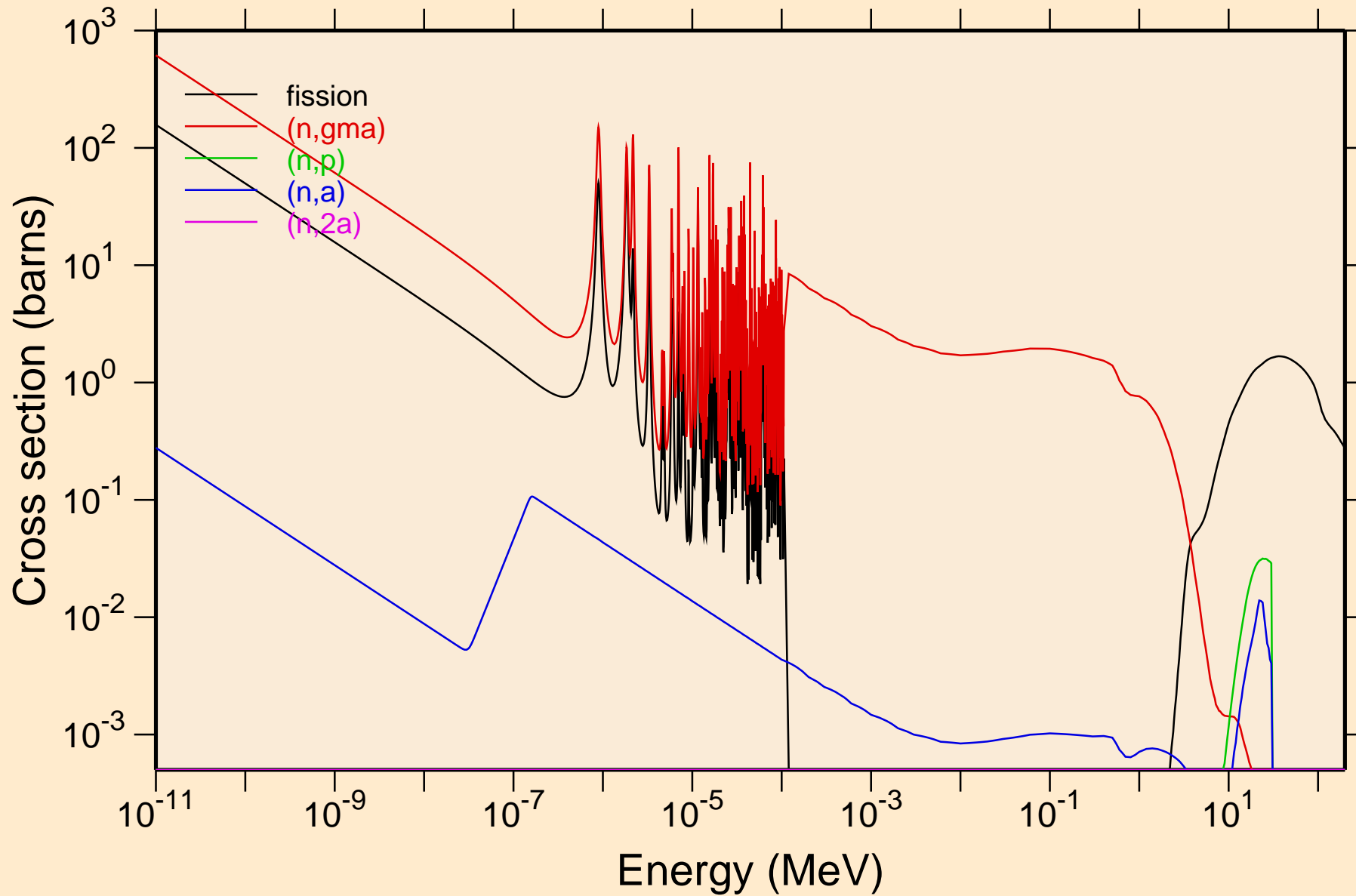
# ES247 NRG TENDL-2015, AKONING

## resonance absorption cross sections



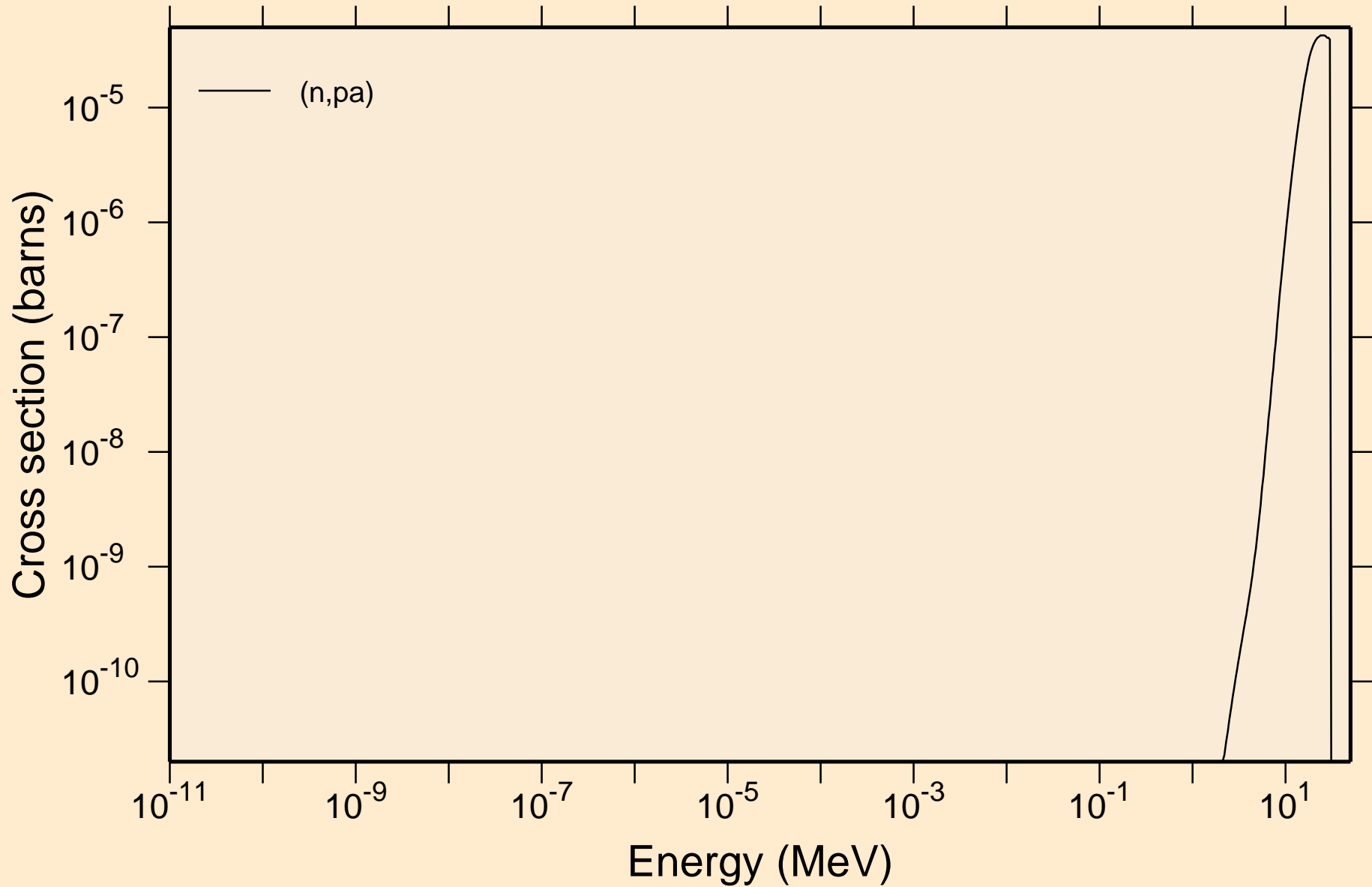
# ES247 NRG TENDL-2015, AKONING

## Non-threshold reactions



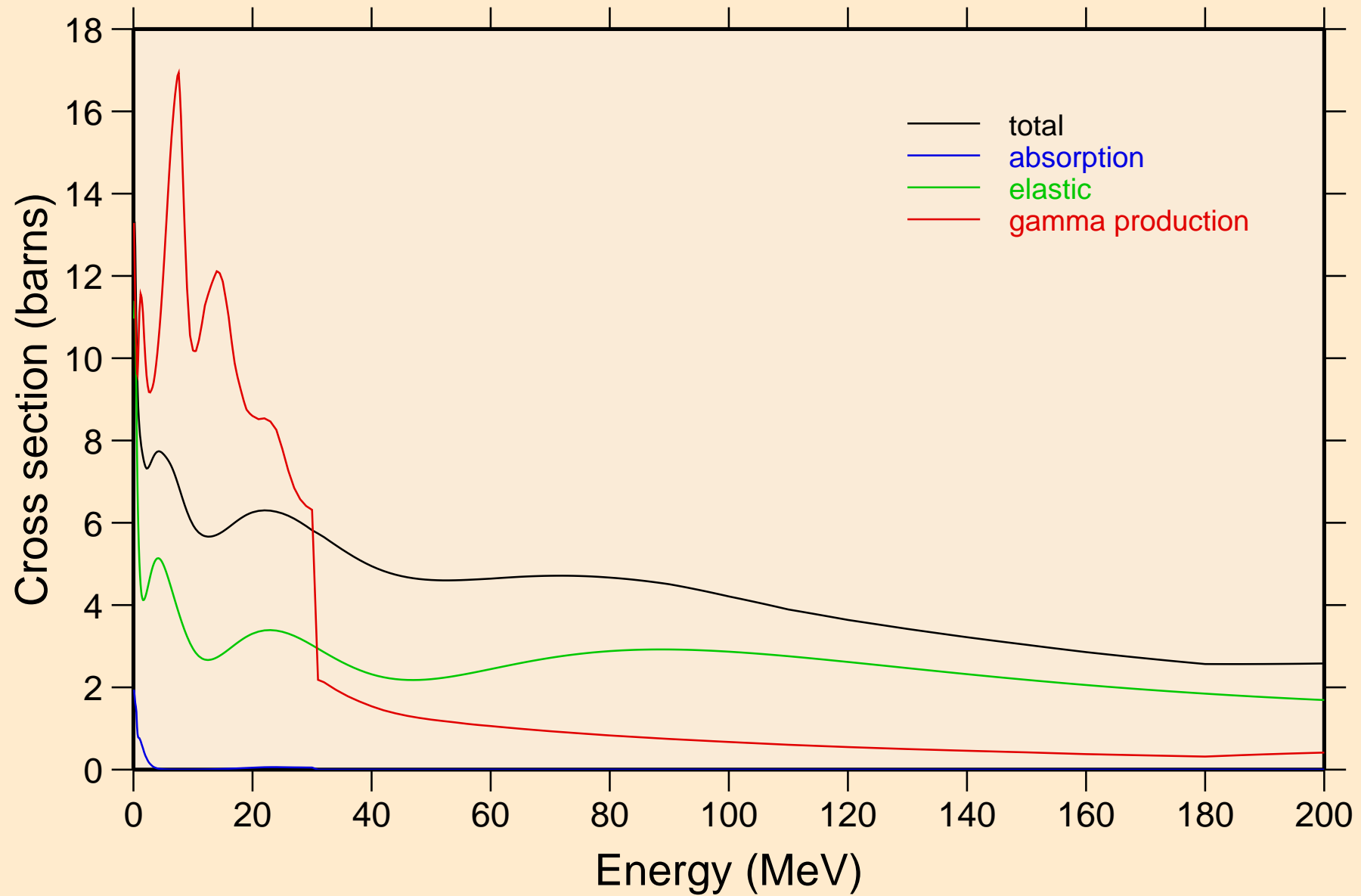
# ES247 NRG TENDL-2015, AKONING

## Non-threshold reactions



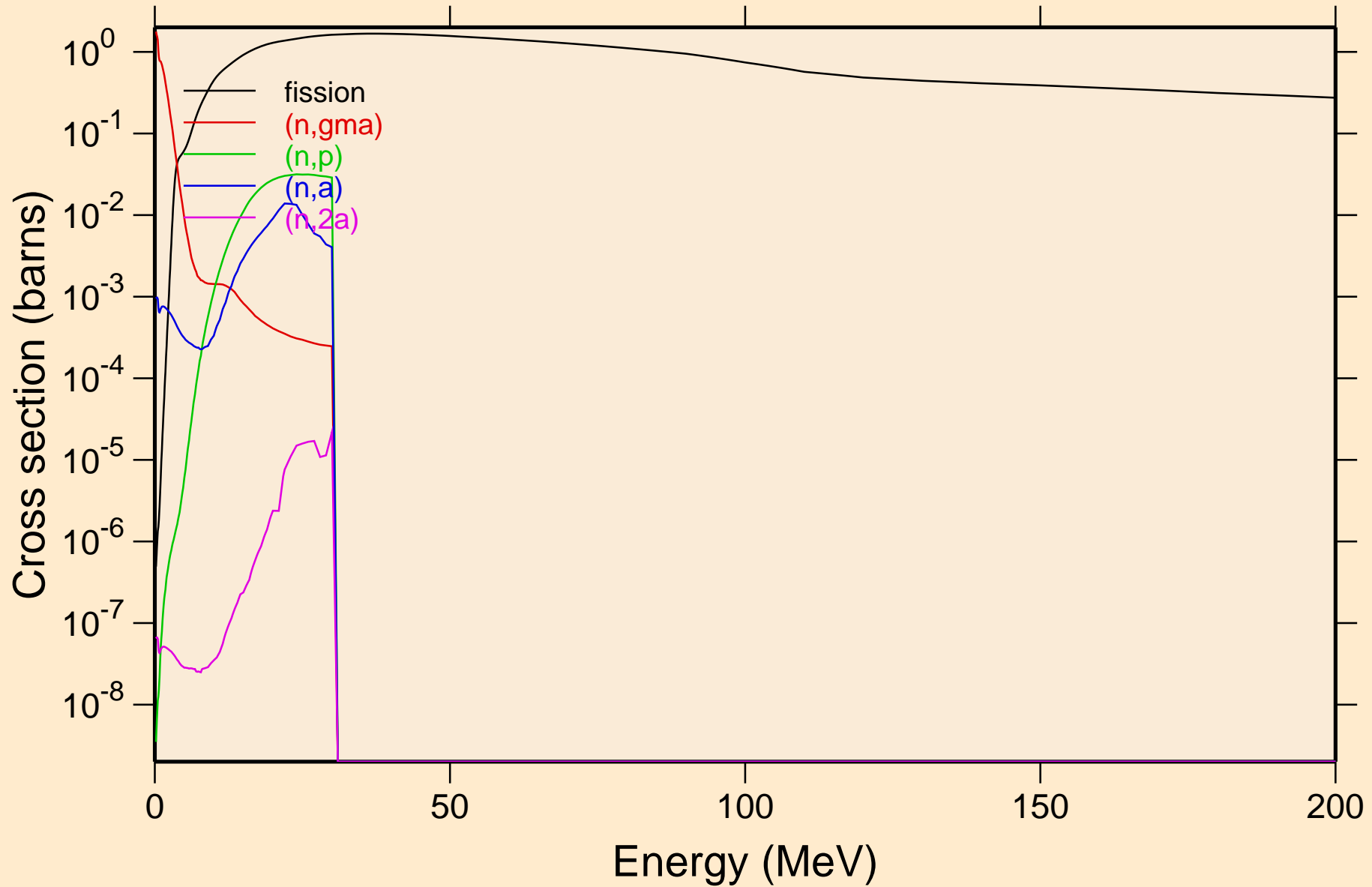
# ES247 NRG TENDL-2015, AKONING

## Principal cross sections



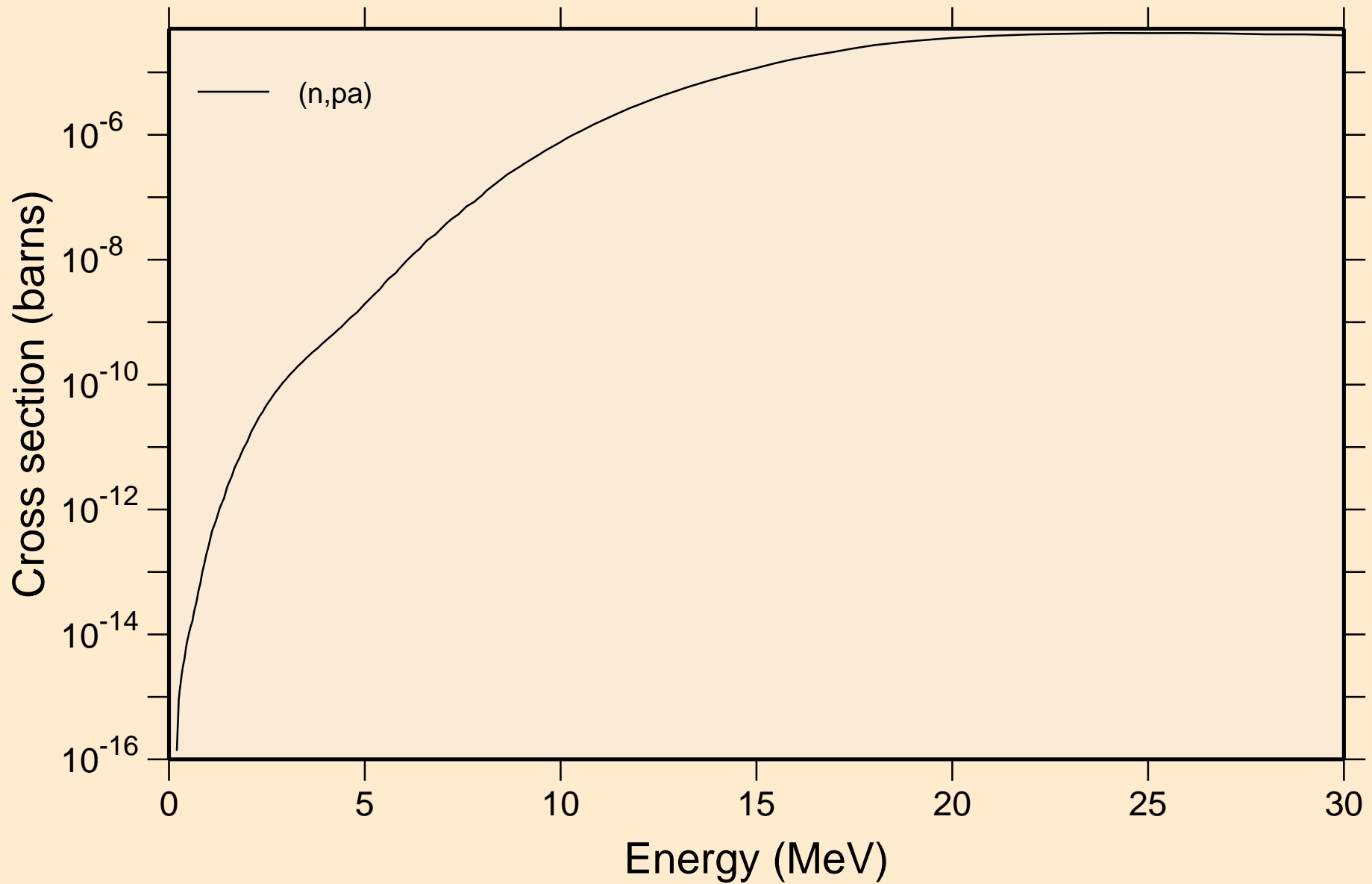
# ES247 NRG TENDL-2015, AKONING

## Non-threshold reactions



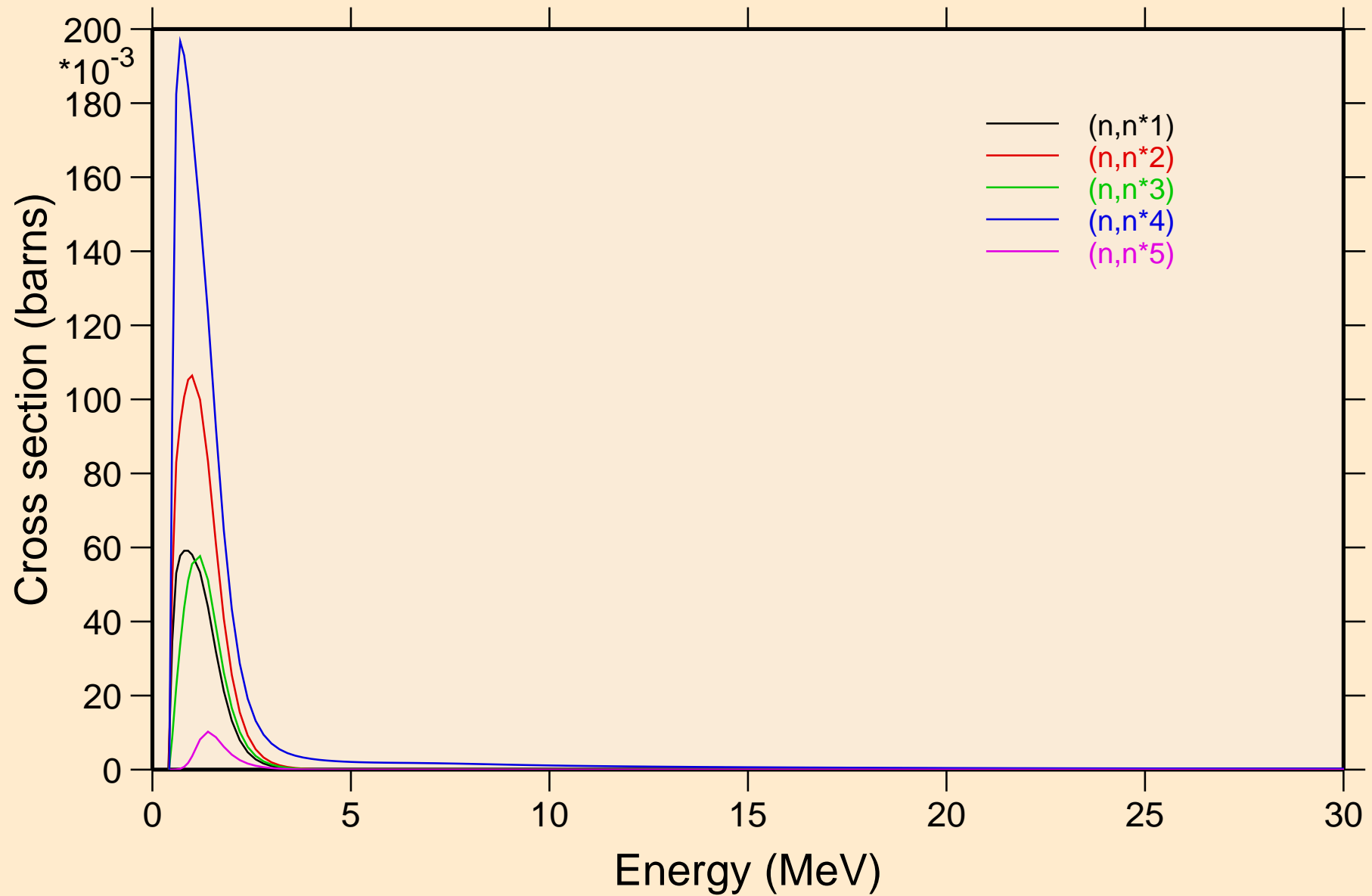
# ES247 NRG TENDL-2015, AKONING

## Non-threshold reactions



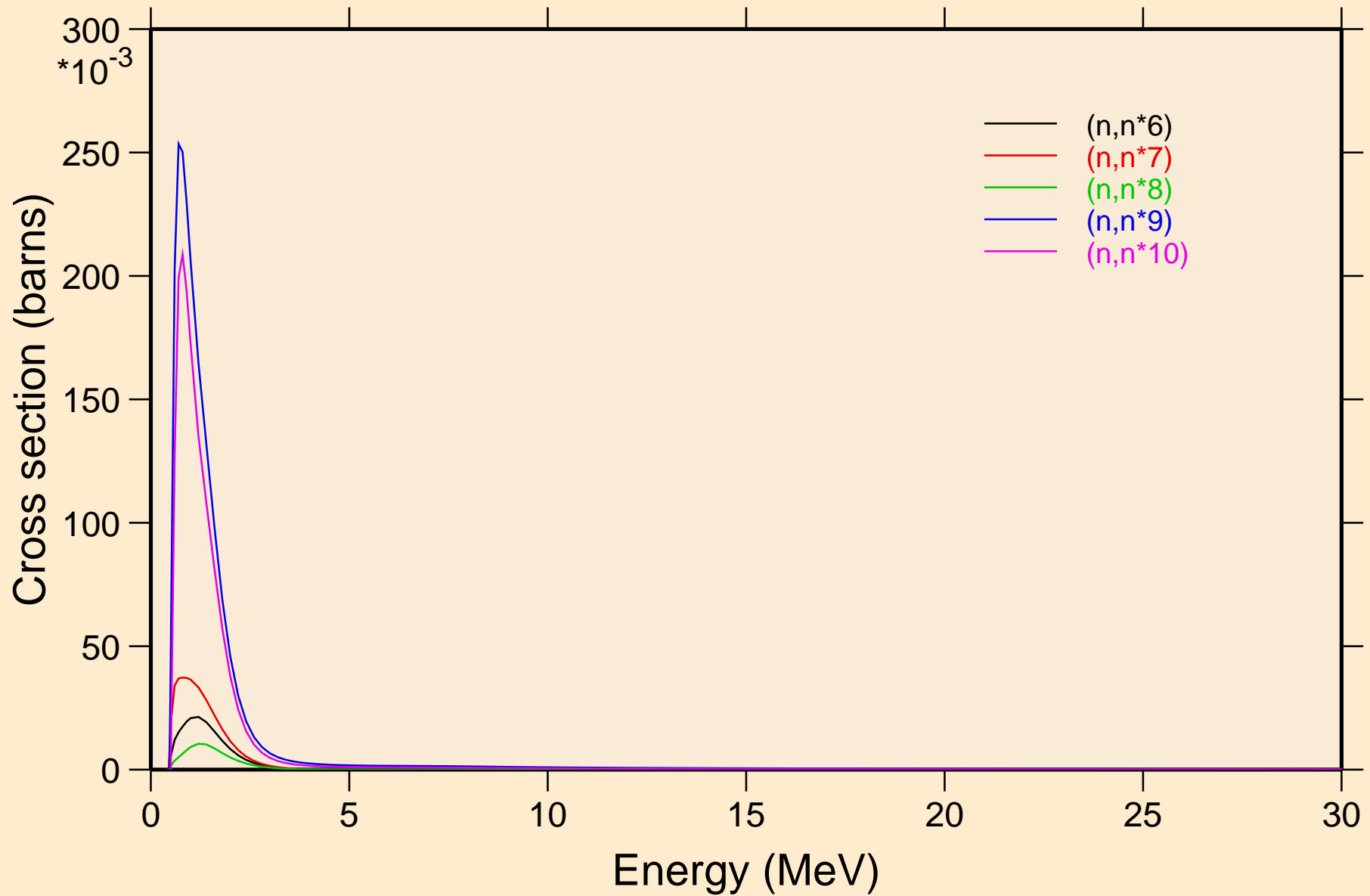
# ES247 NRG TENDL-2015, AKONING

## Inelastic levels



# ES247 NRG TENDL-2015, AKONING

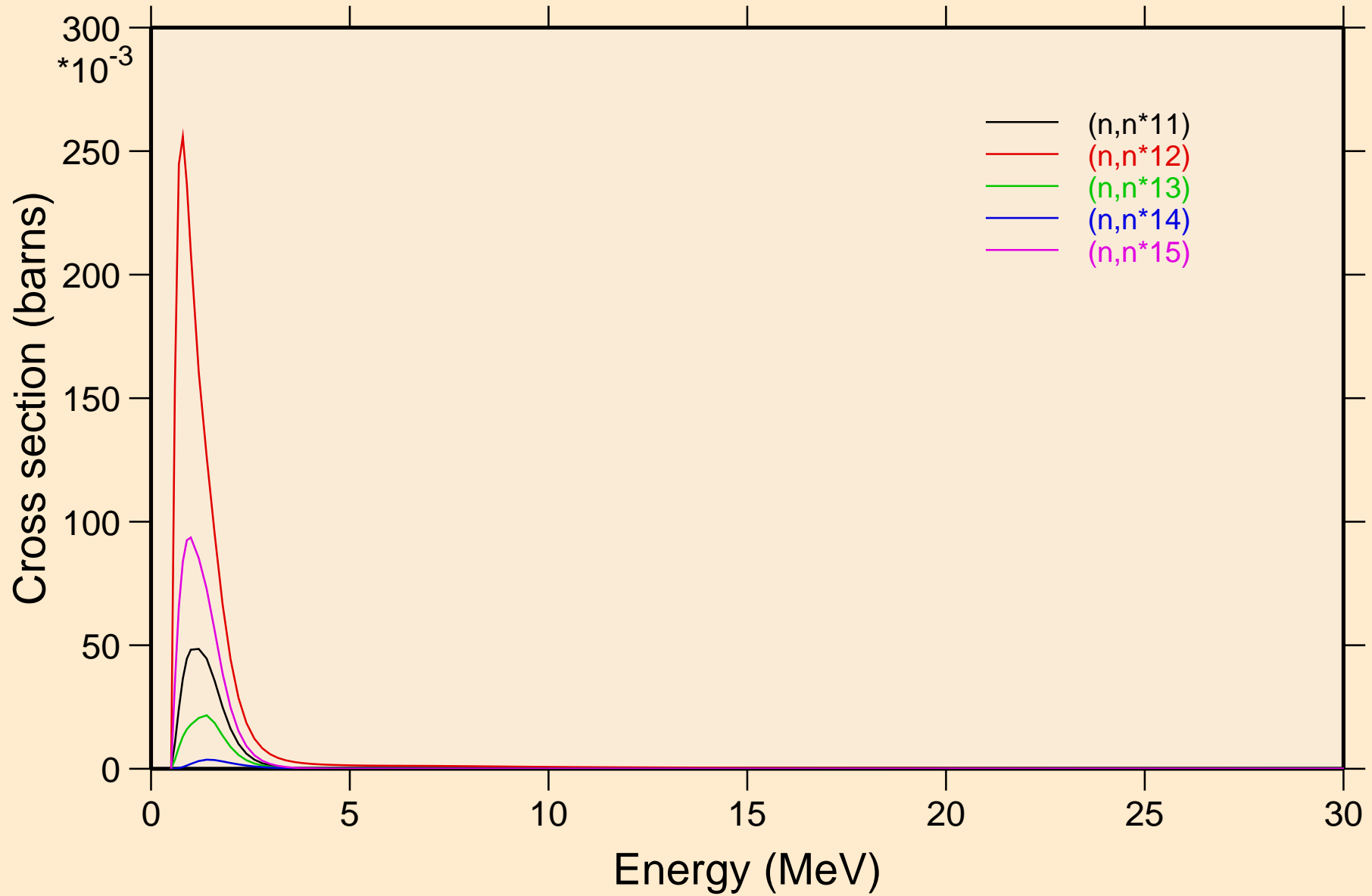
## Inelastic levels





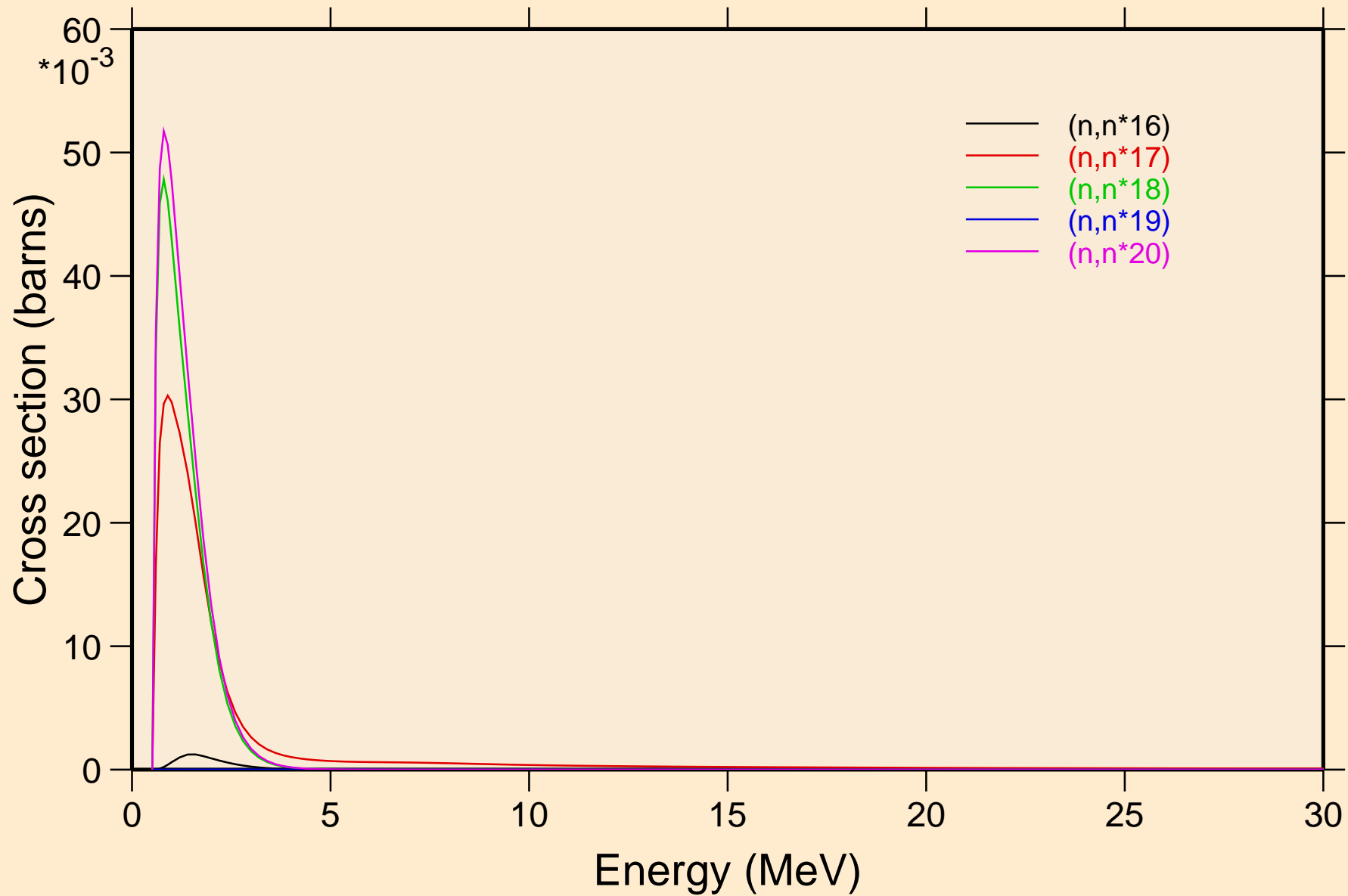
# ES247 NRG TENDL-2015, AKONING

## Inelastic levels



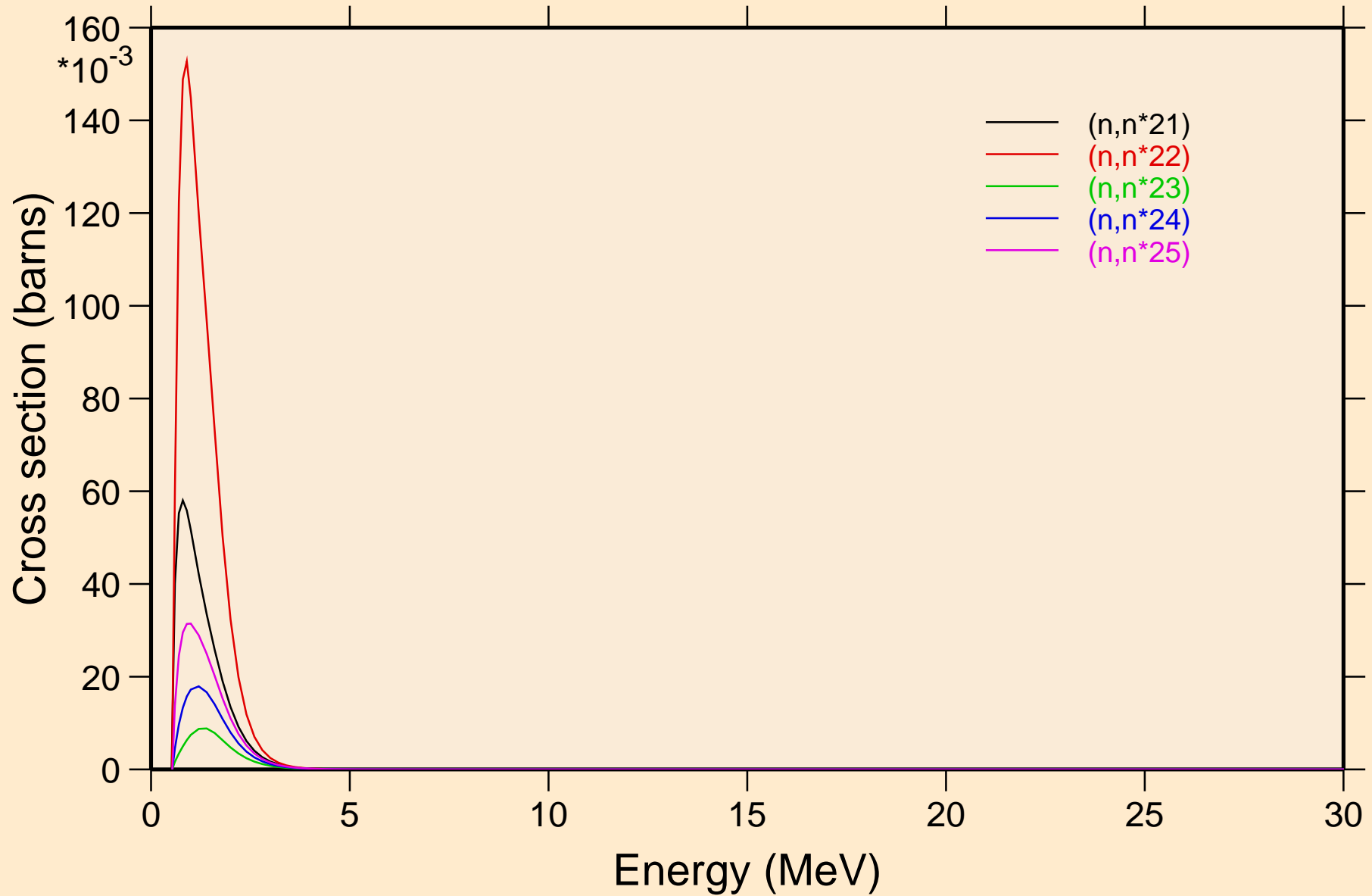
# ES247 NRG TENDL-2015, AKONING

## Inelastic levels



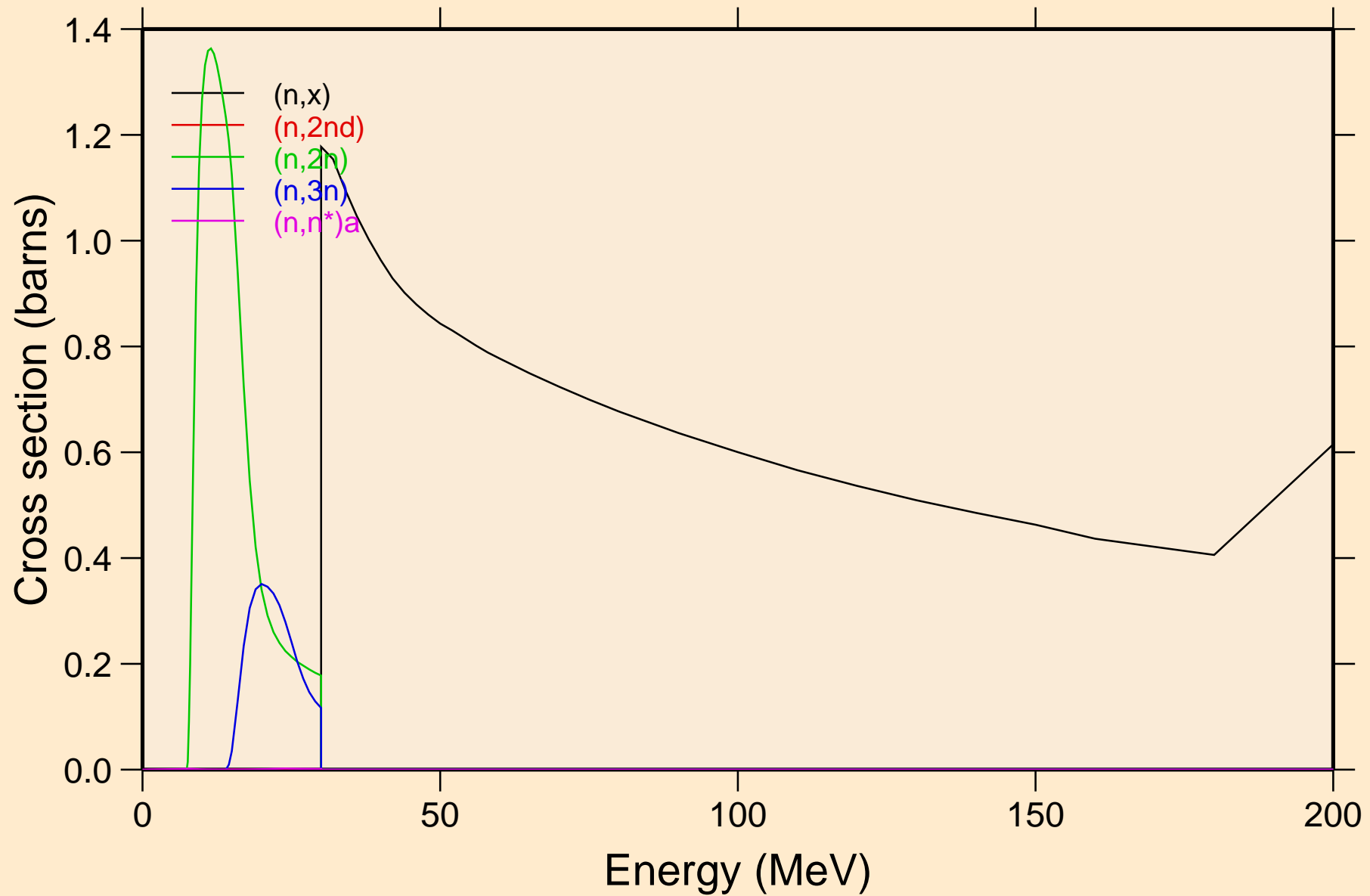
# ES247 NRG TENDL-2015, AKONING

## Inelastic levels



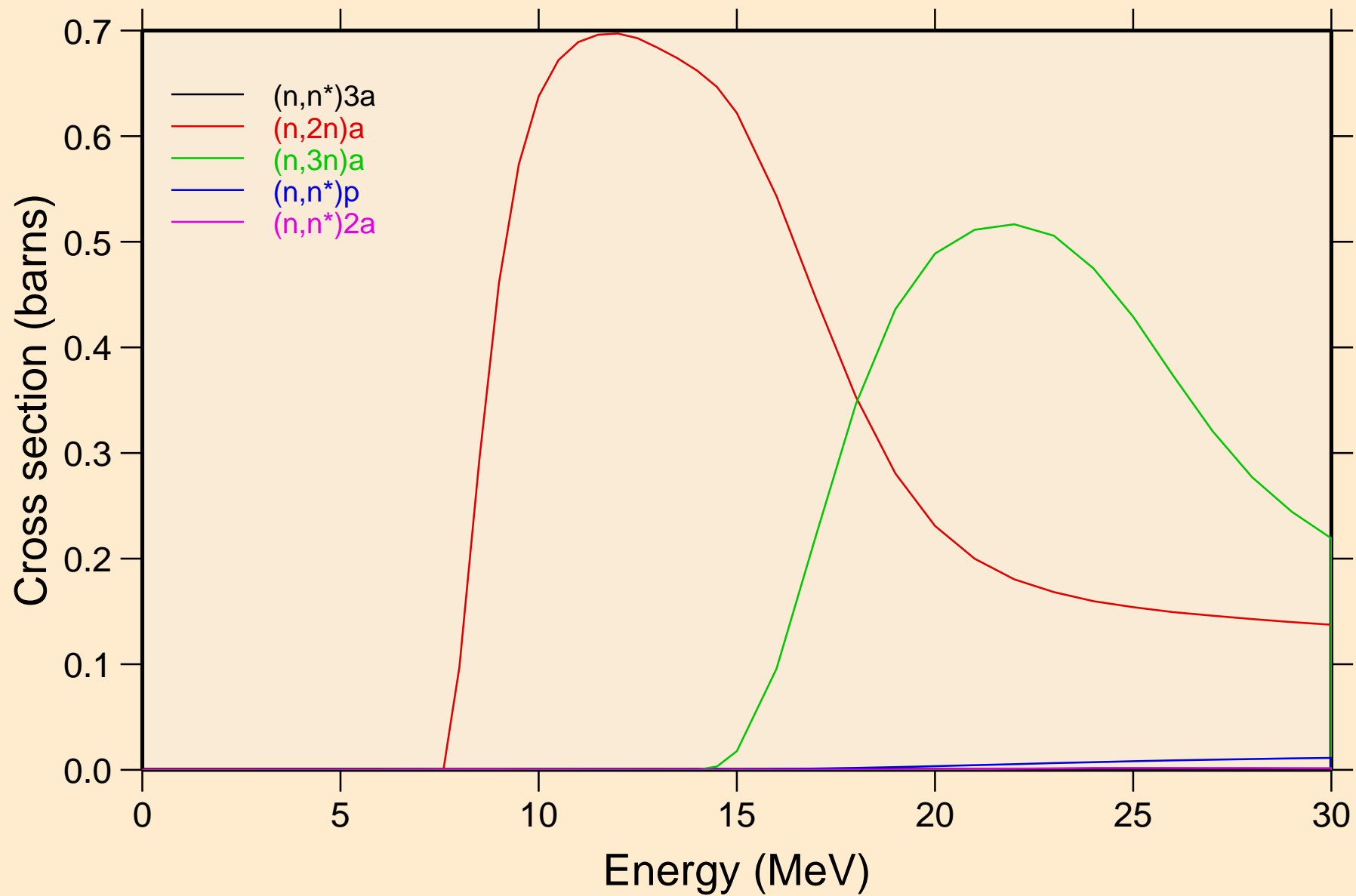
# ES247 NRG TENDL-2015, AKONING

## Threshold reactions



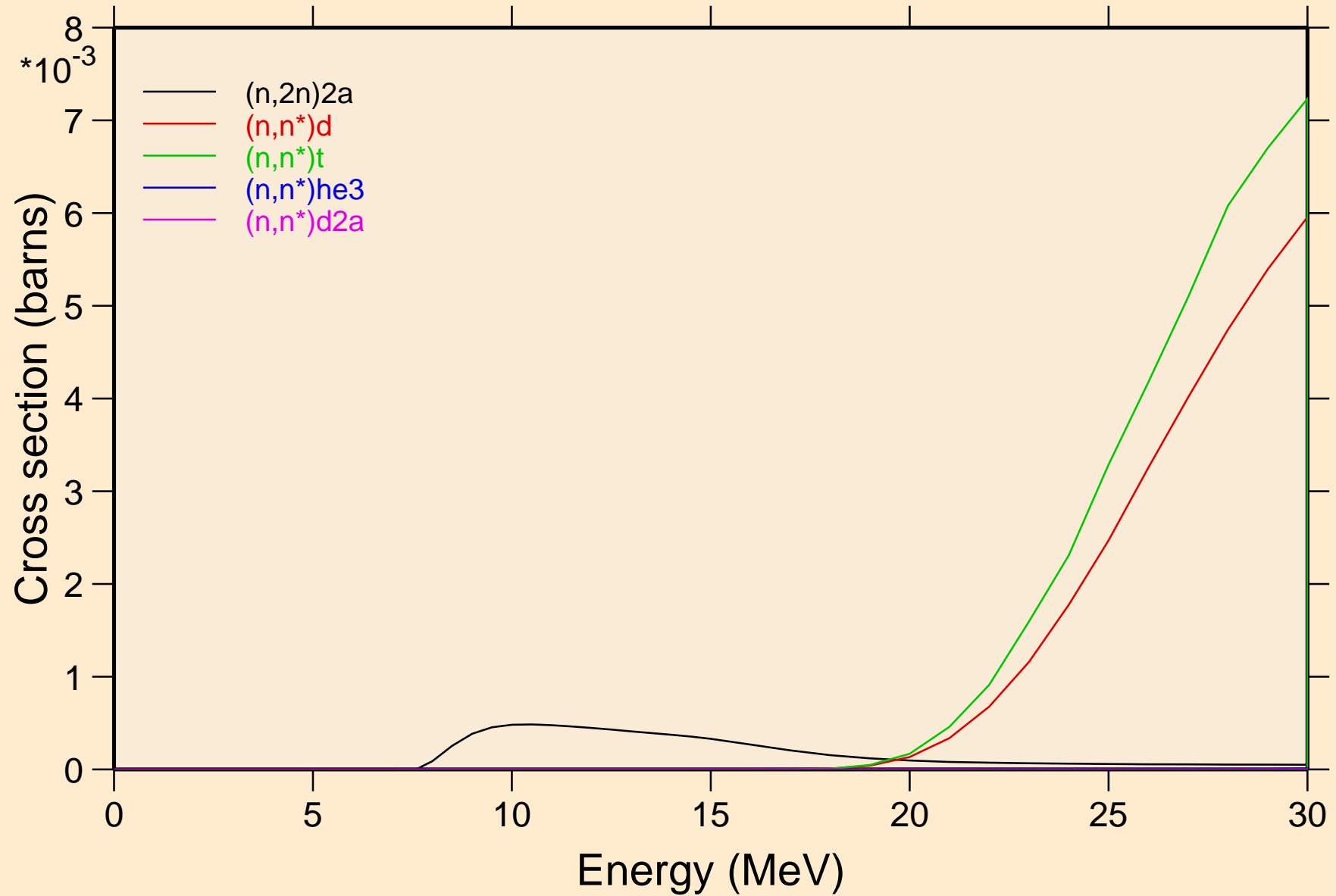
# ES247 NRG TENDL-2015, AKONING

## Threshold reactions



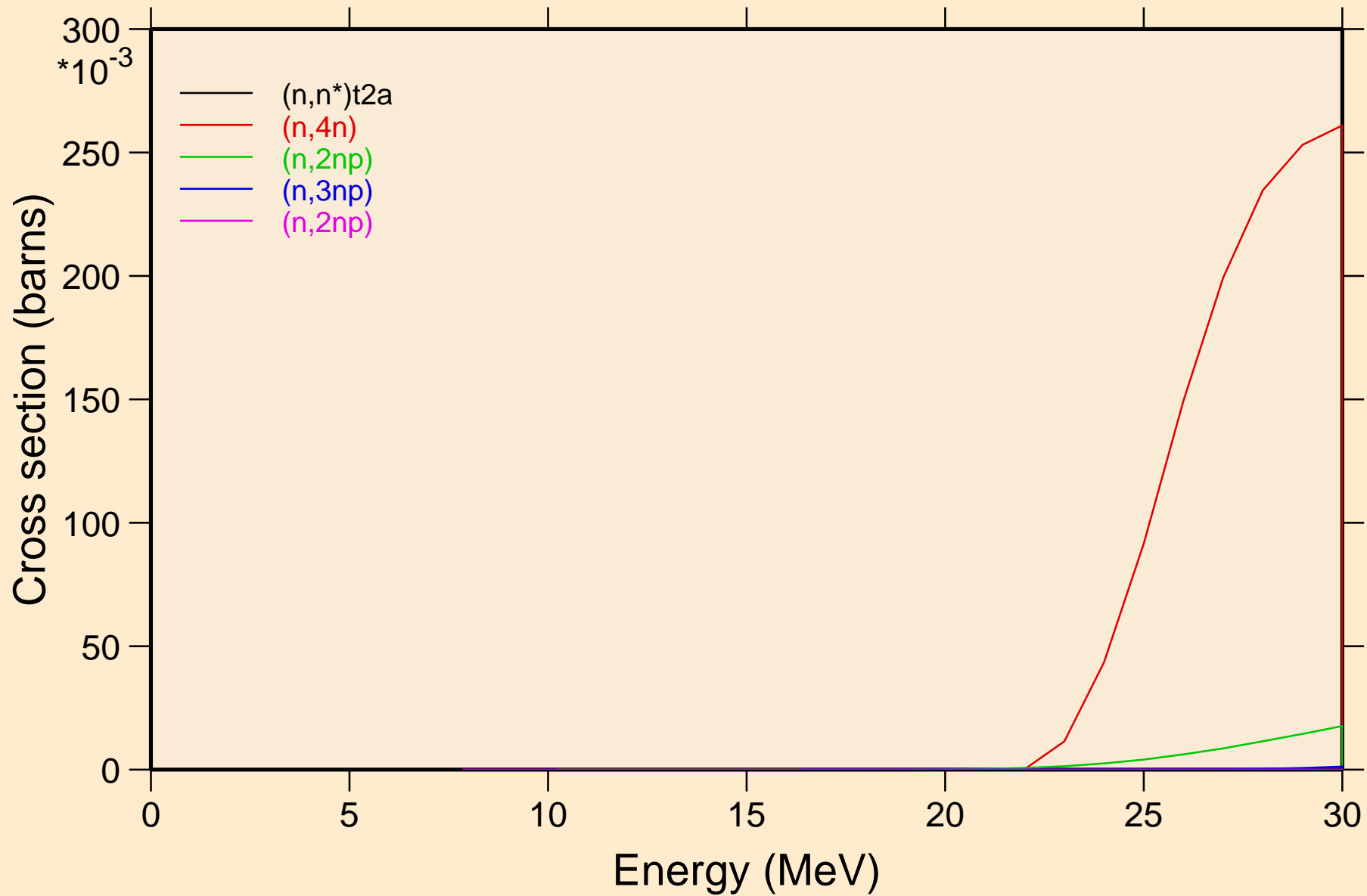
# ES247 NRG TENDL-2015, AKONING

## Threshold reactions



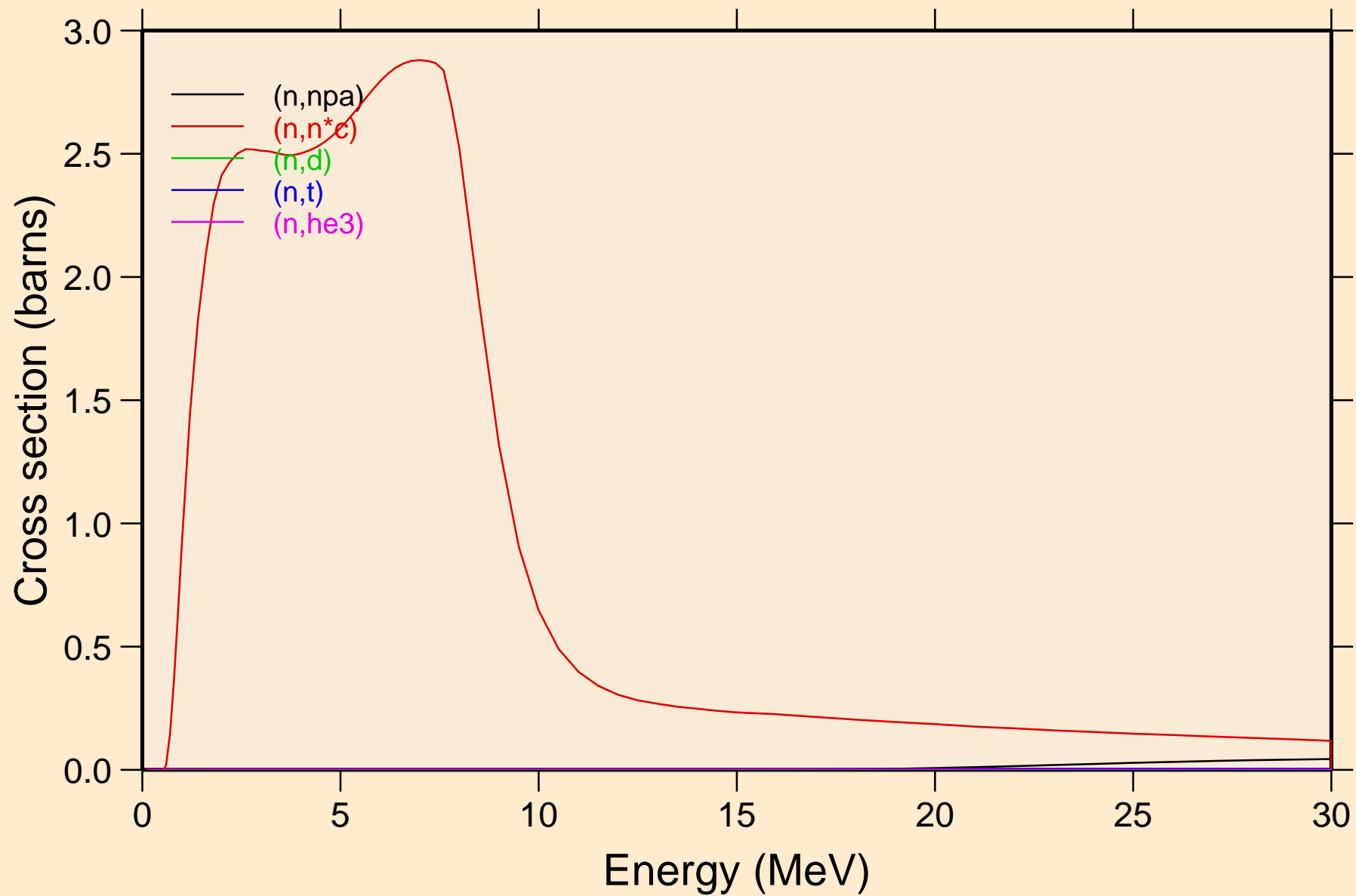
# ES247 NRG TENDL-2015, AKONING

## Threshold reactions



# ES247 NRG TENDL-2015, AKONING

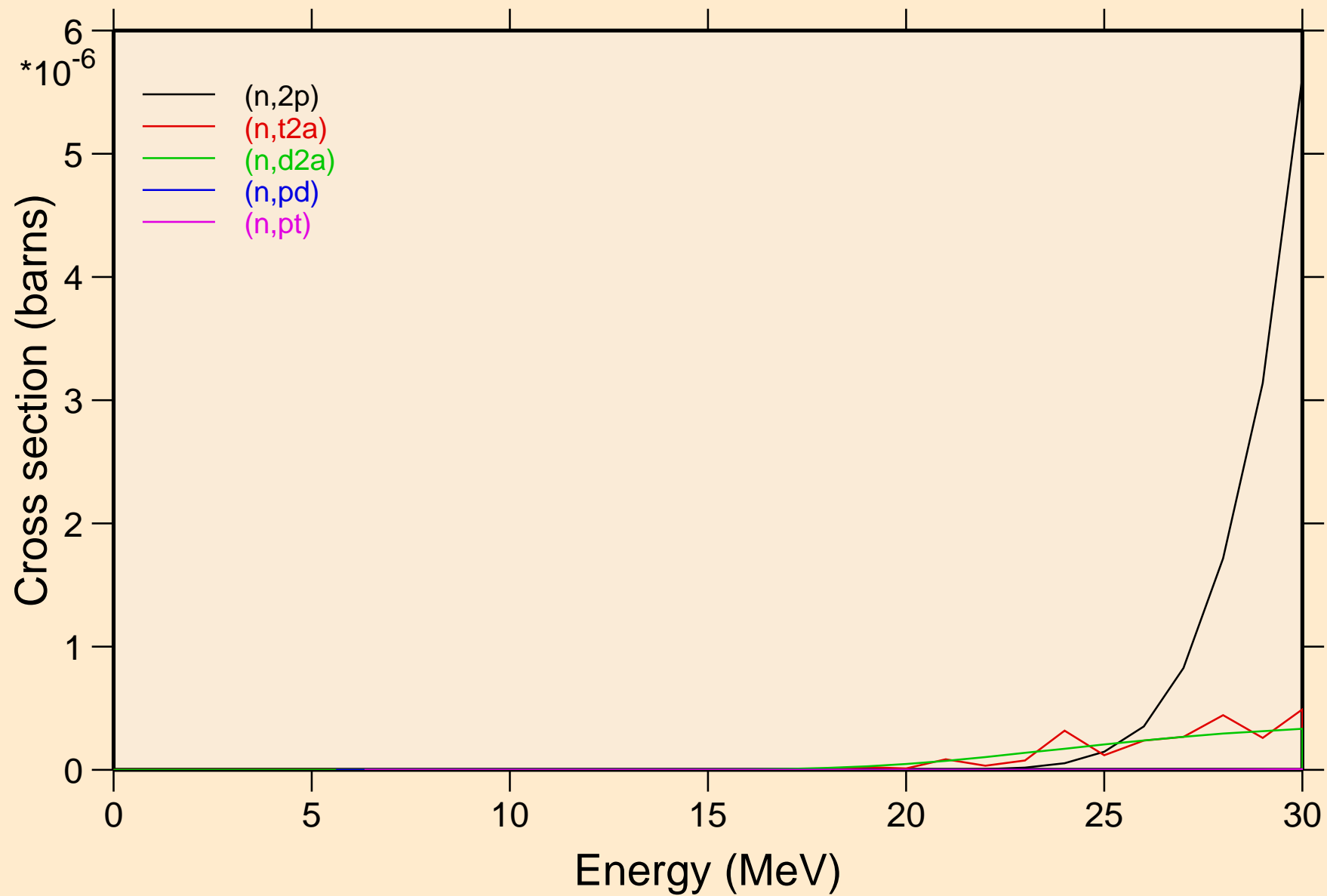
## Threshold reactions





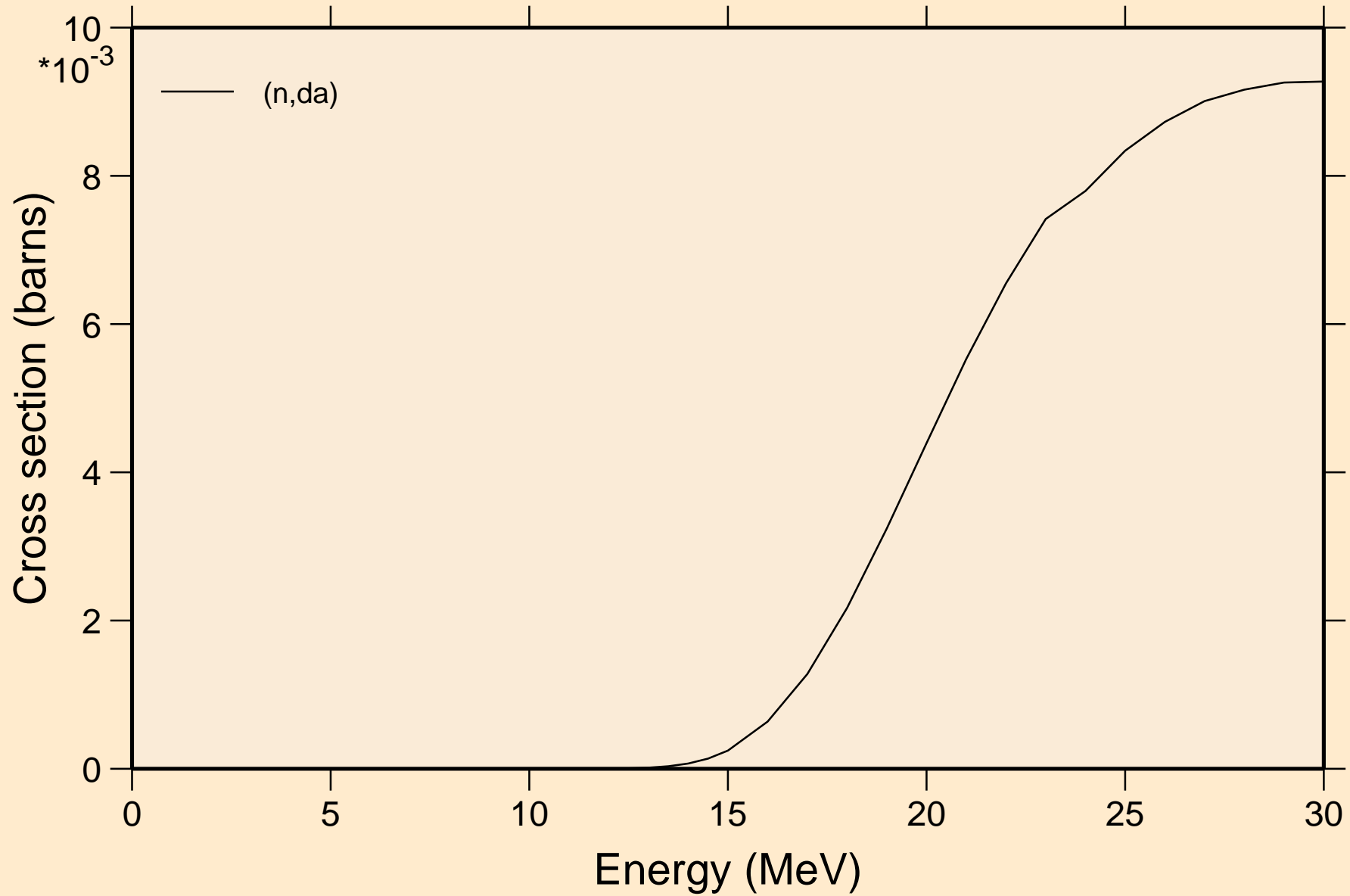
# ES247 NRG TENDL-2015, AKONING

## Threshold reactions

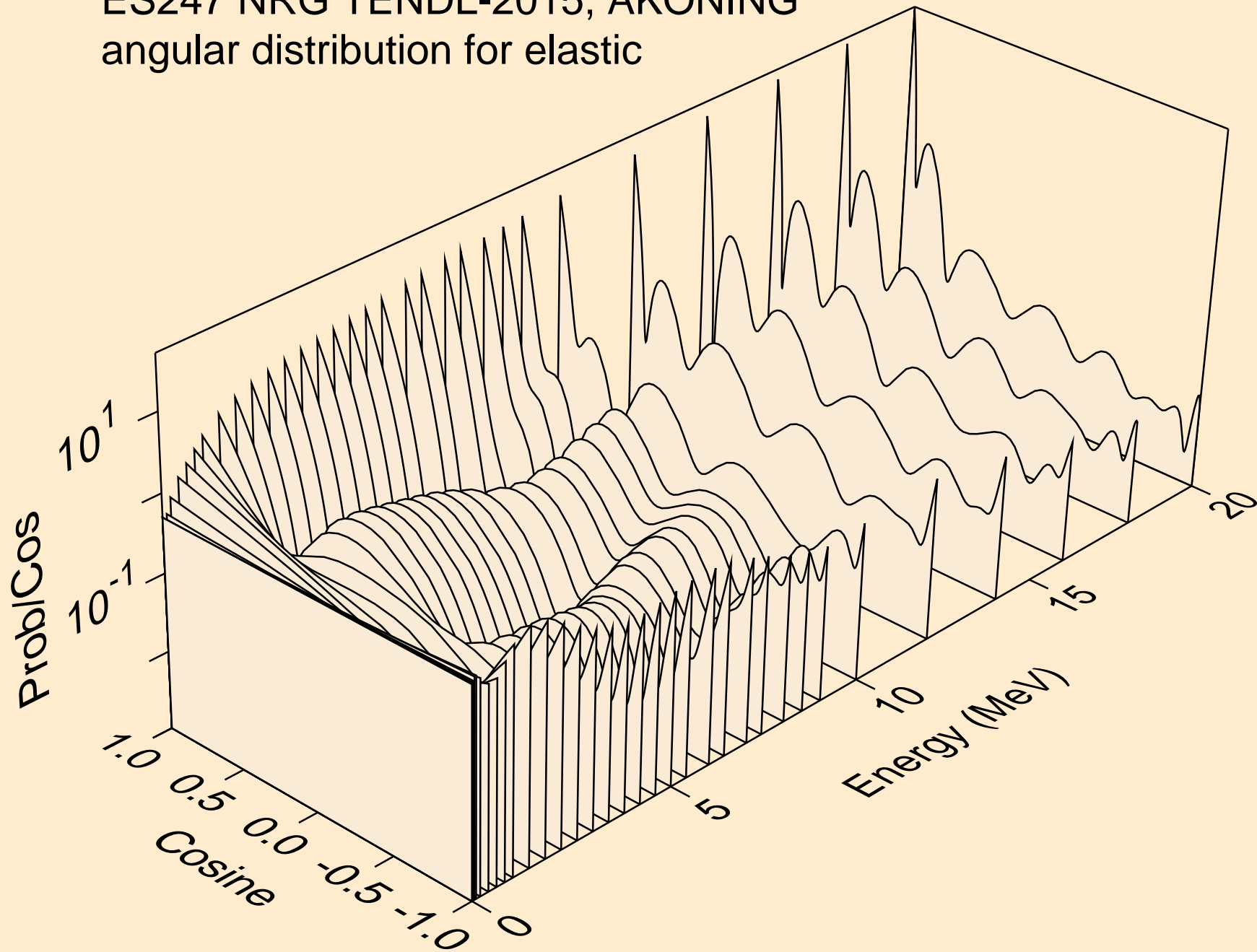


# ES247 NRG TENDL-2015, AKONING

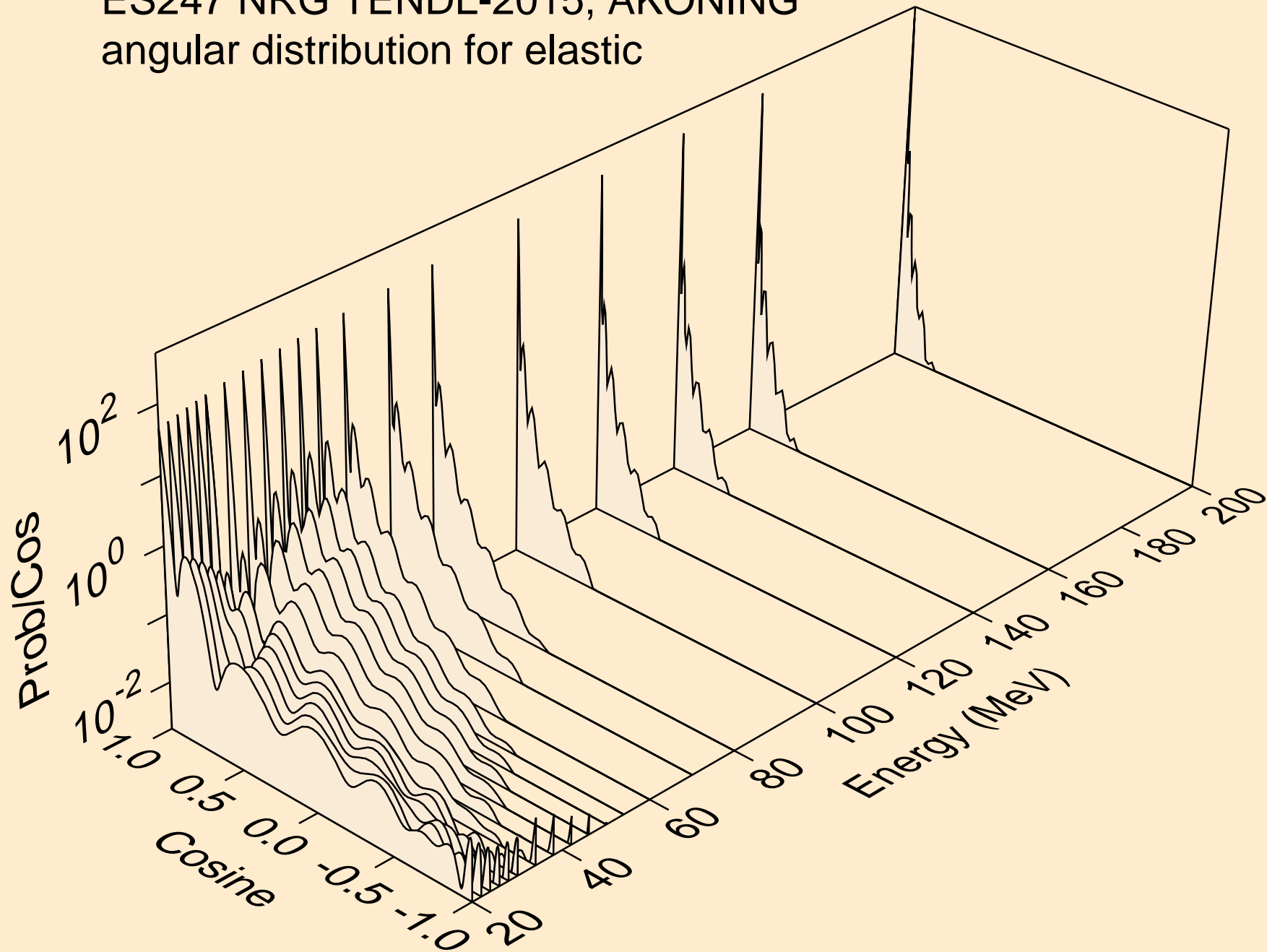
## Threshold reactions



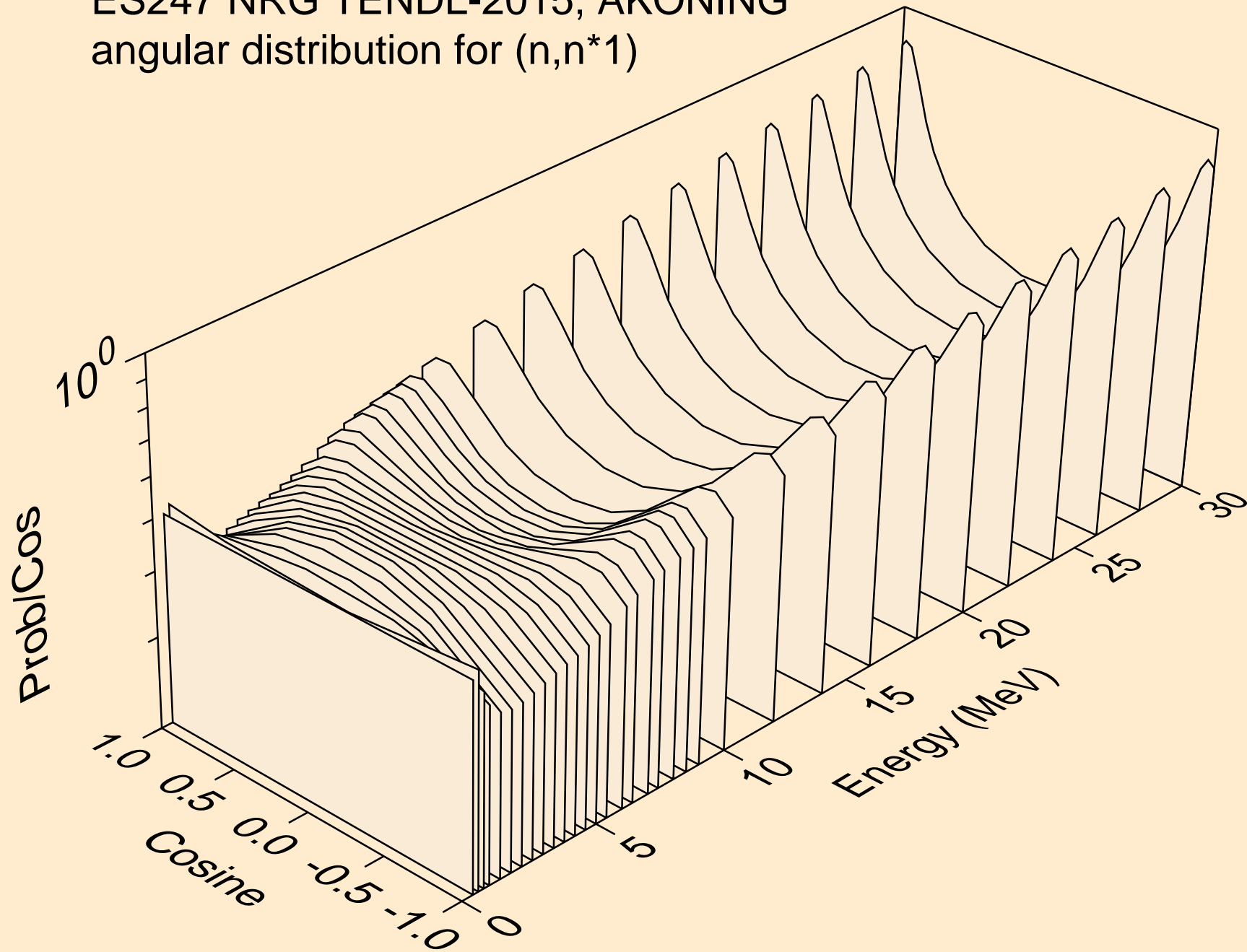
ES247 NRG TENDL-2015, AKONING  
angular distribution for elastic



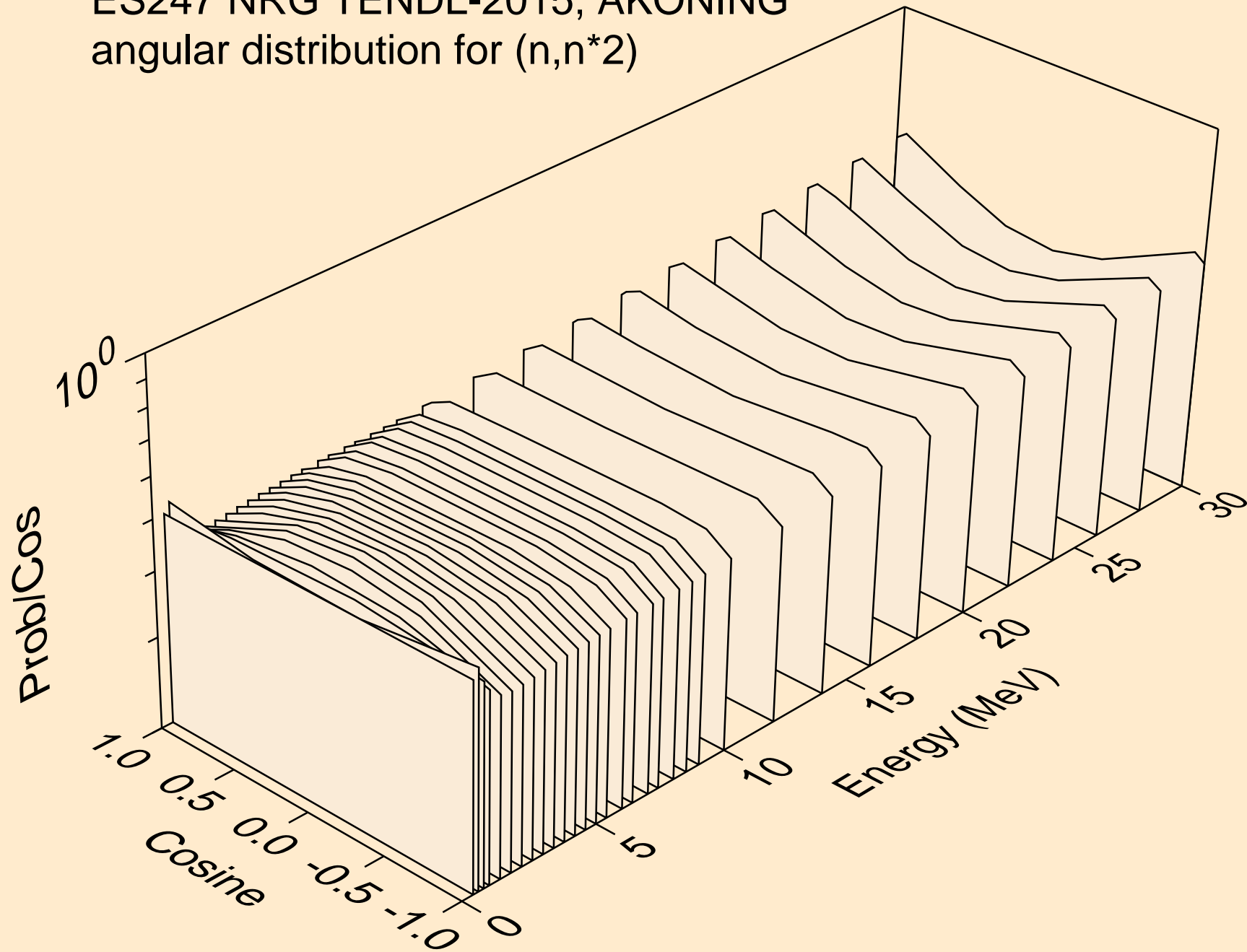
ES247 NRG TENDL-2015, AKONING  
angular distribution for elastic



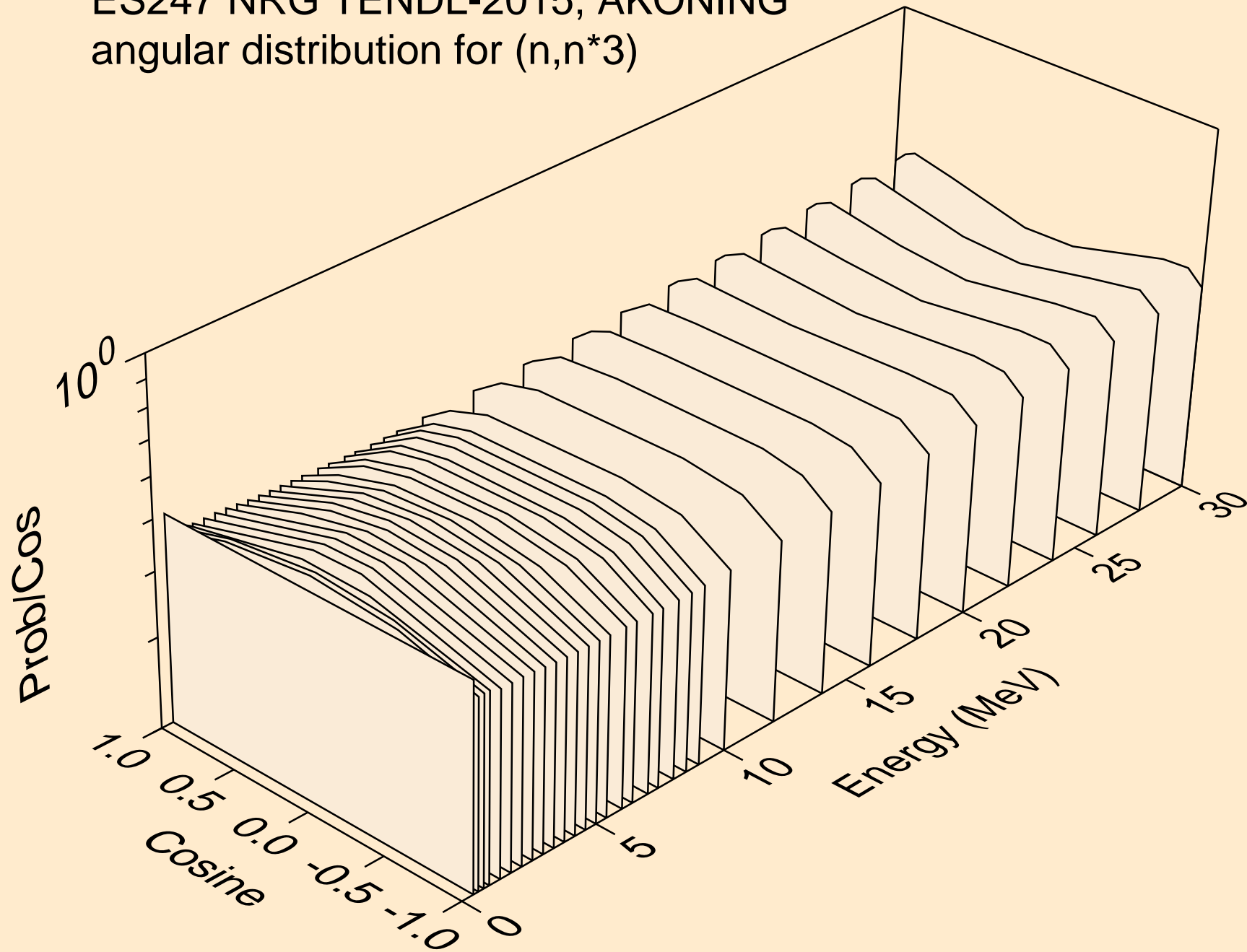
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*1)



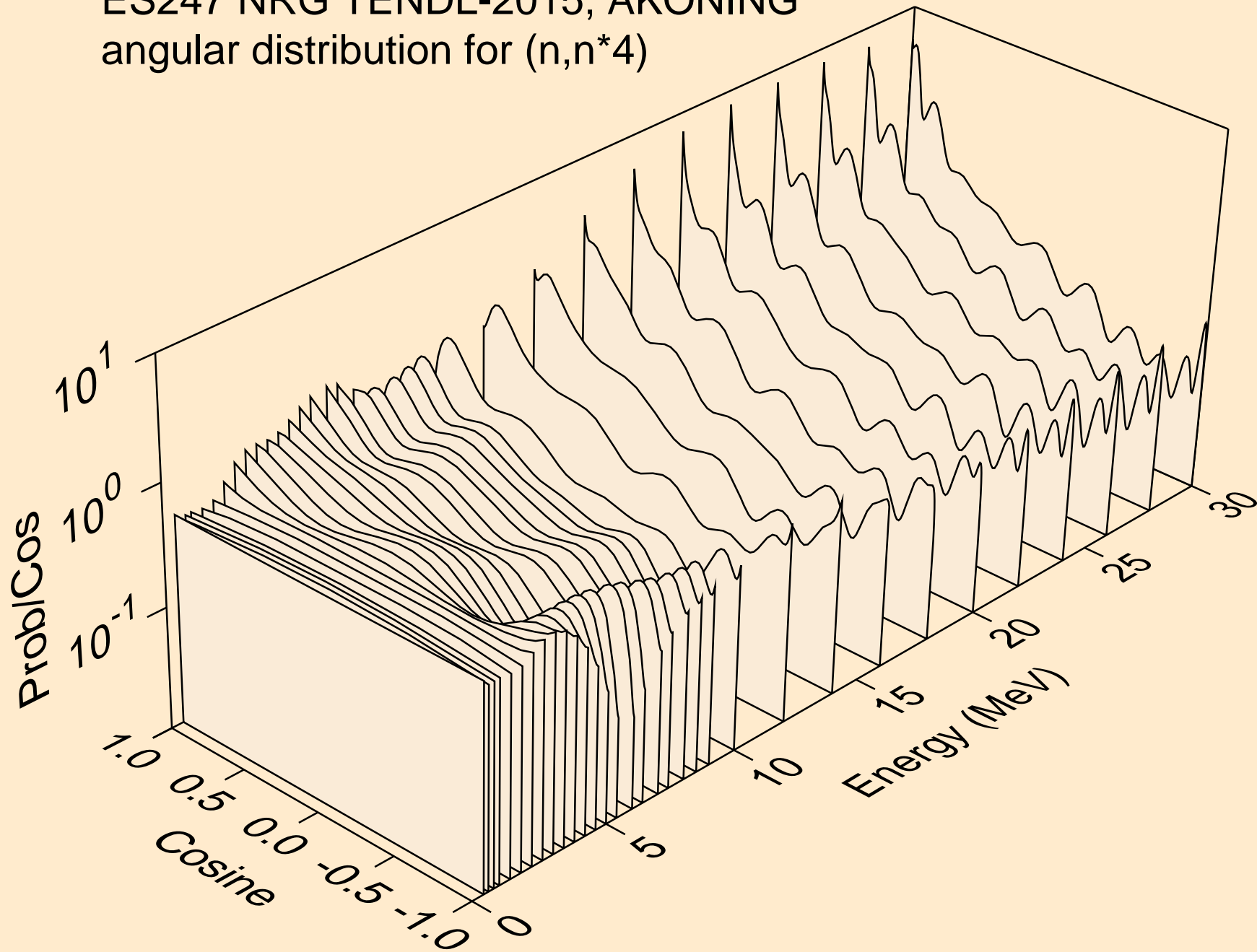
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*2)



ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*3)

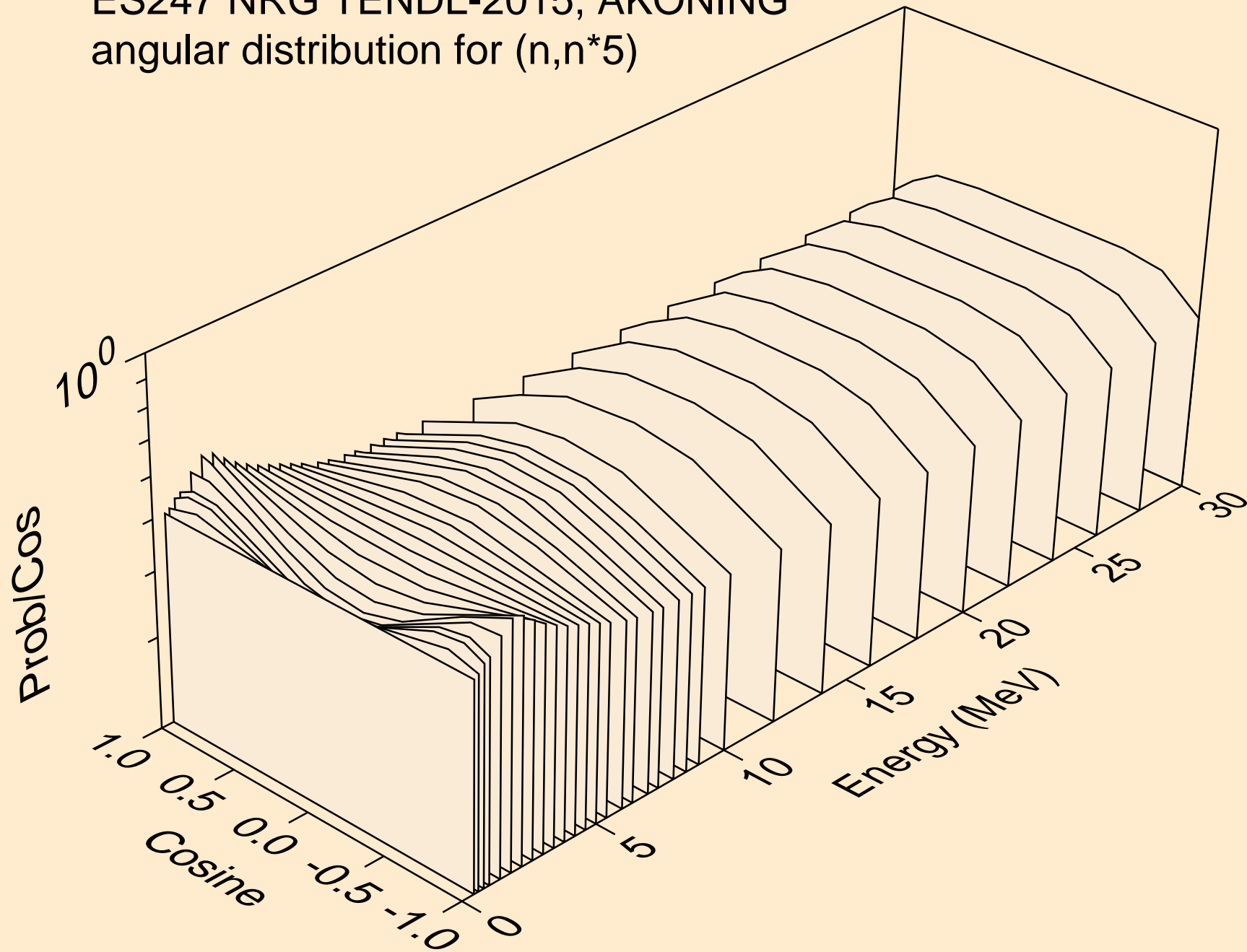


ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*4)

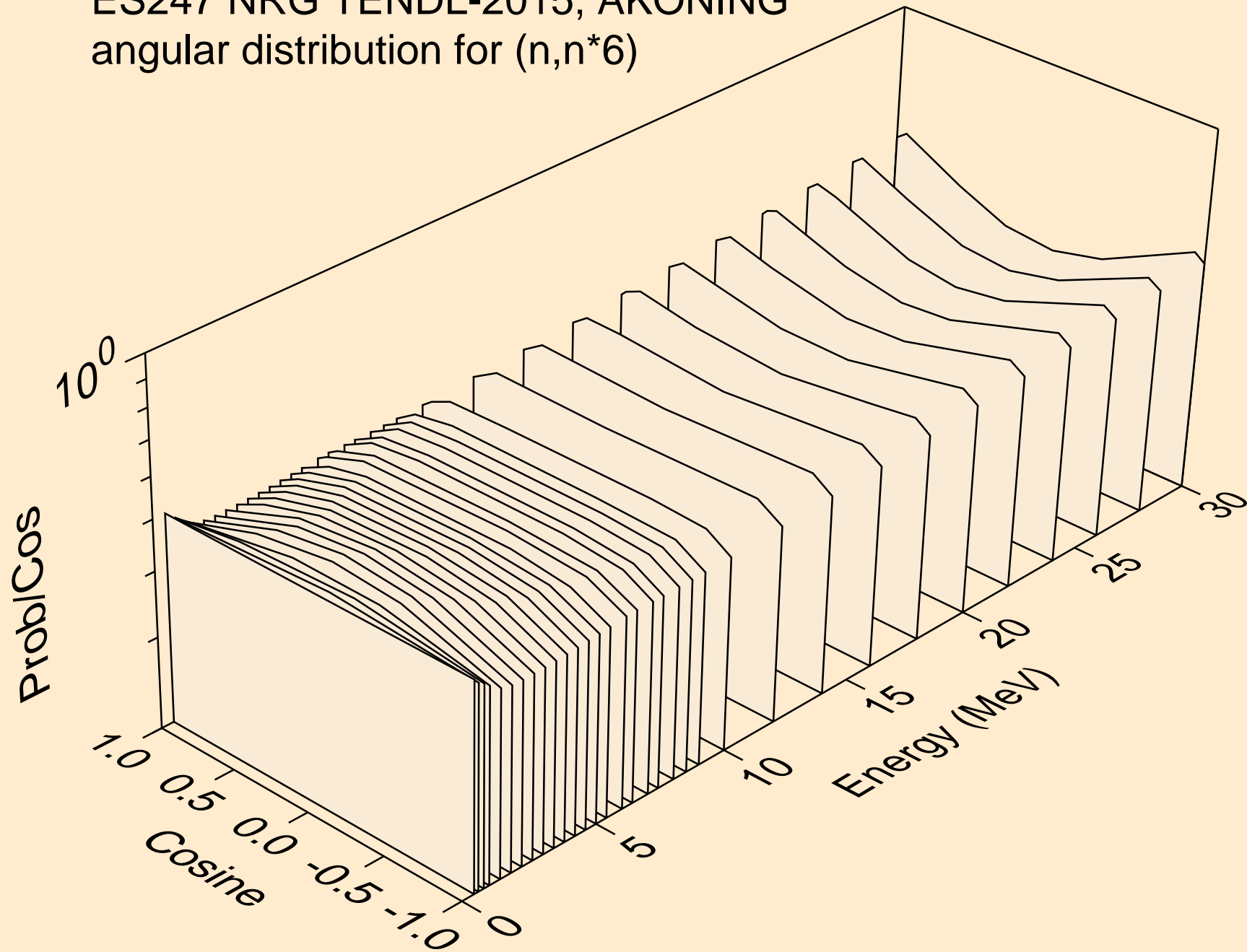




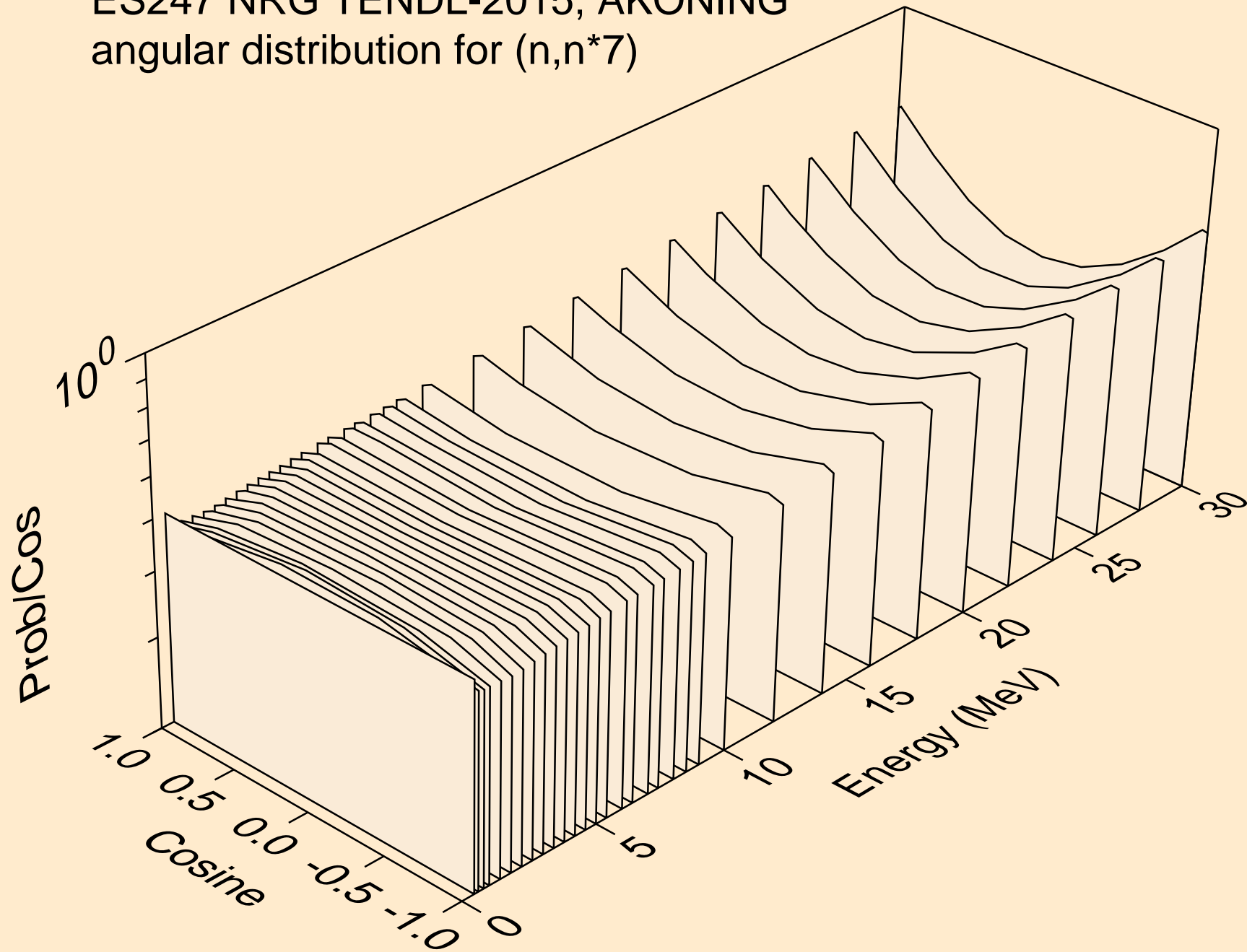
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*5)



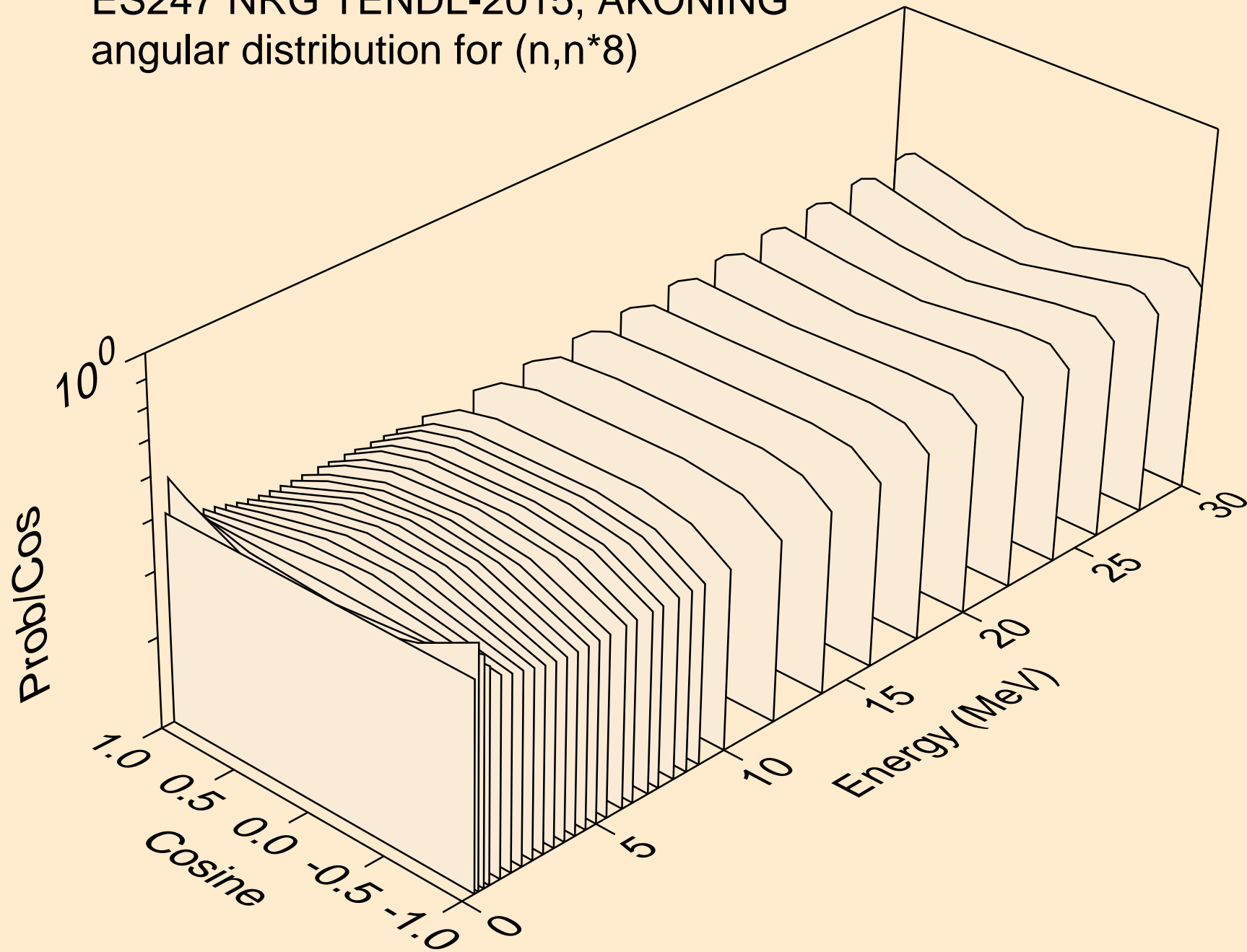
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*6)



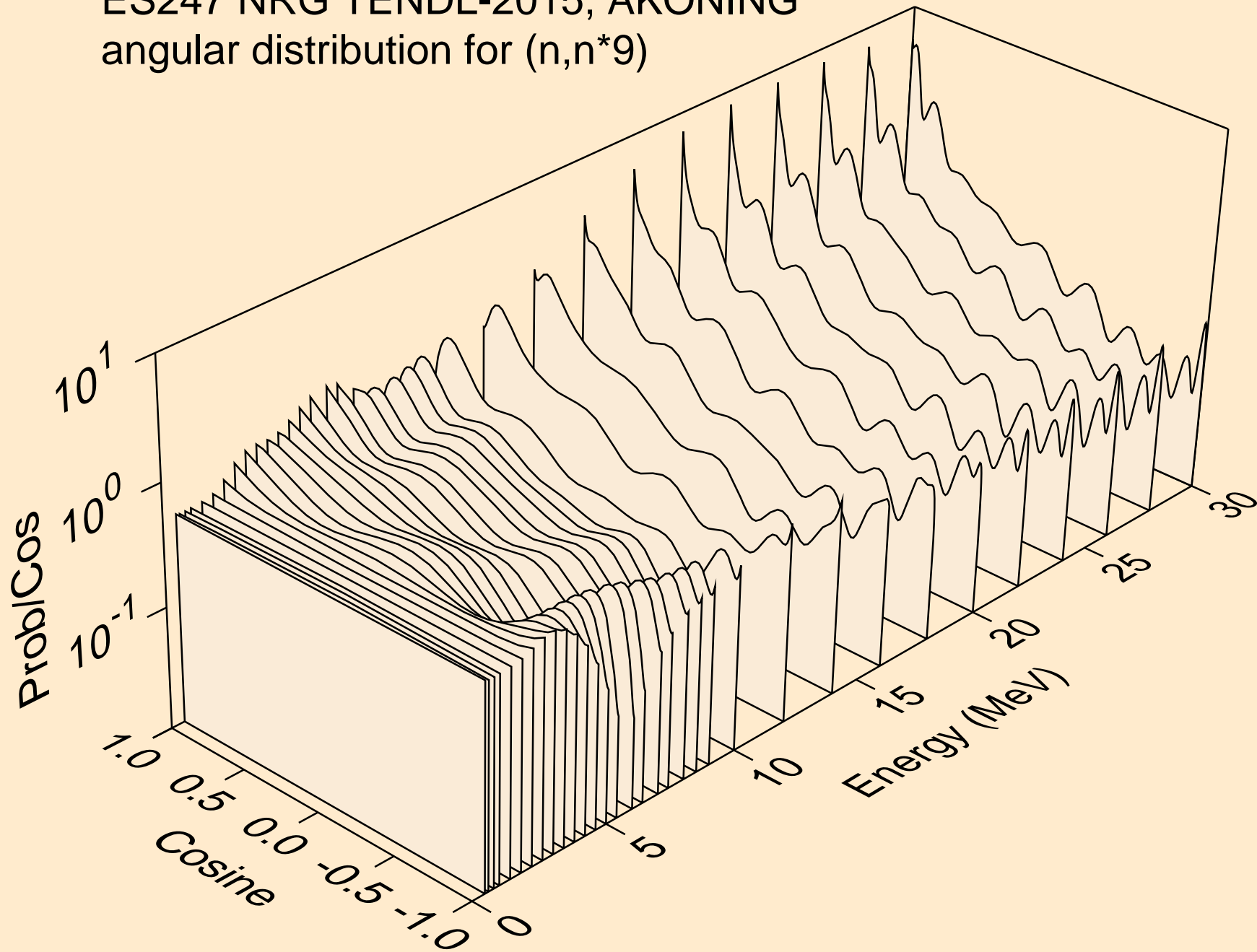
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*7)



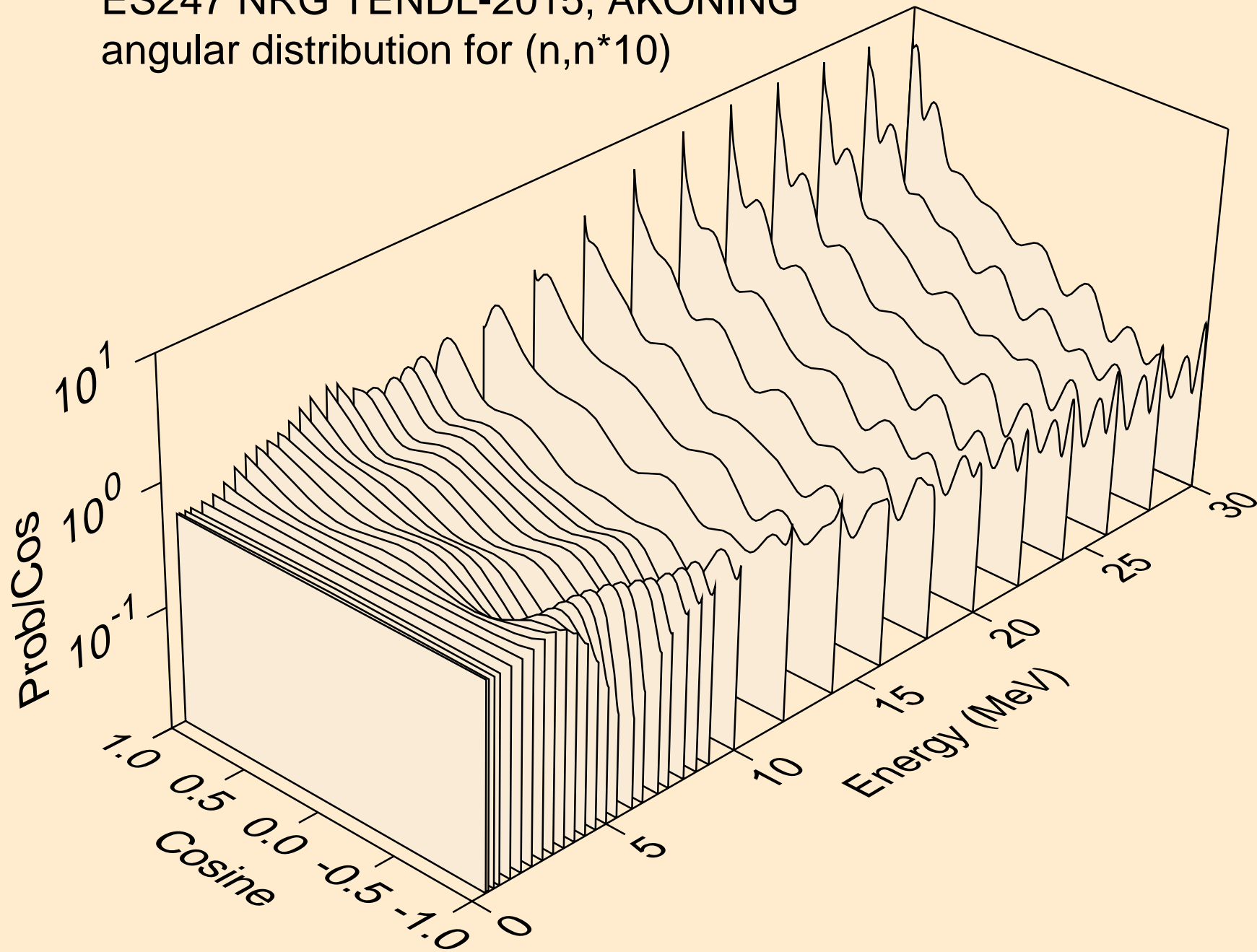
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*8)



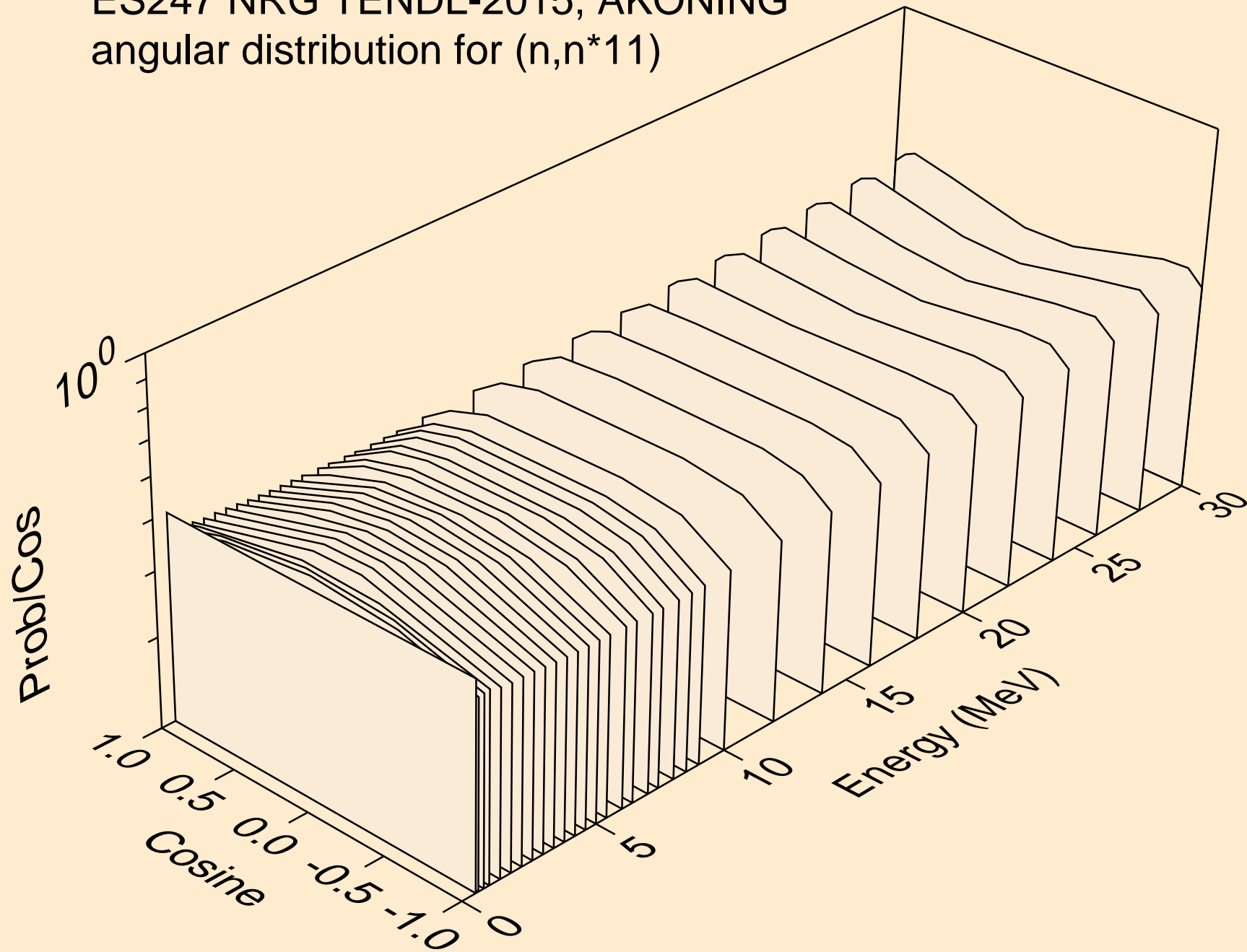
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*9)



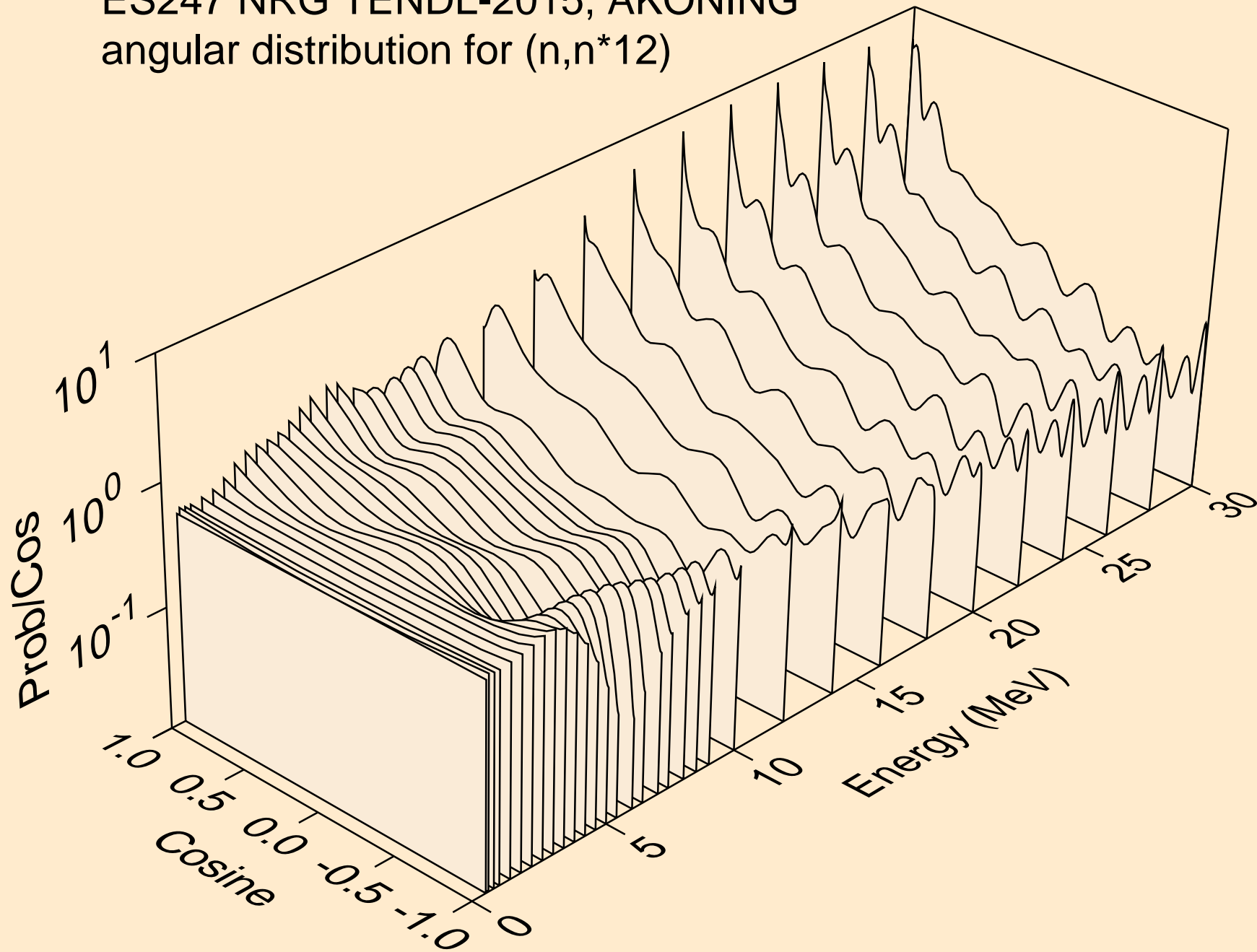
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*10)



ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*11)

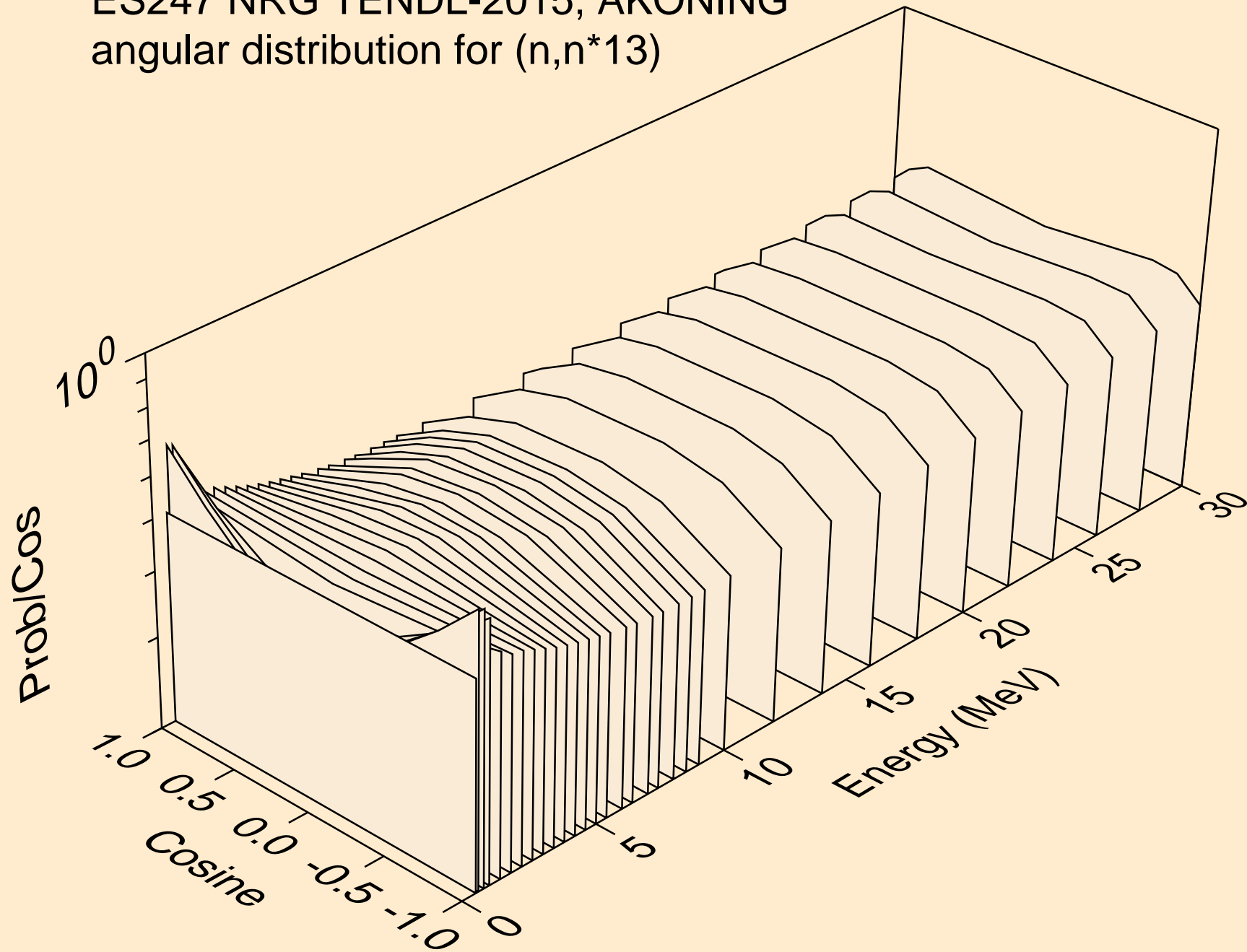


ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*12)

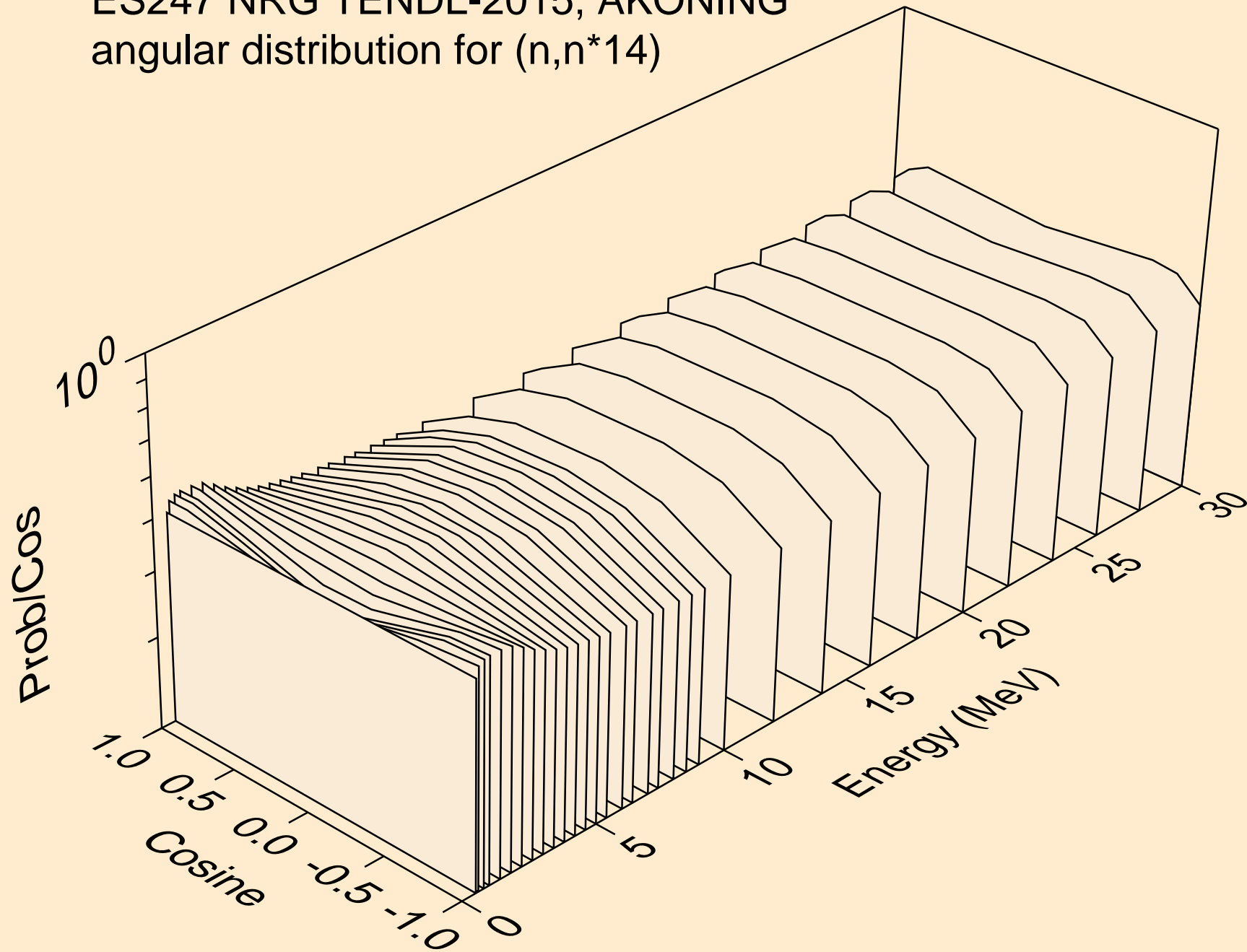




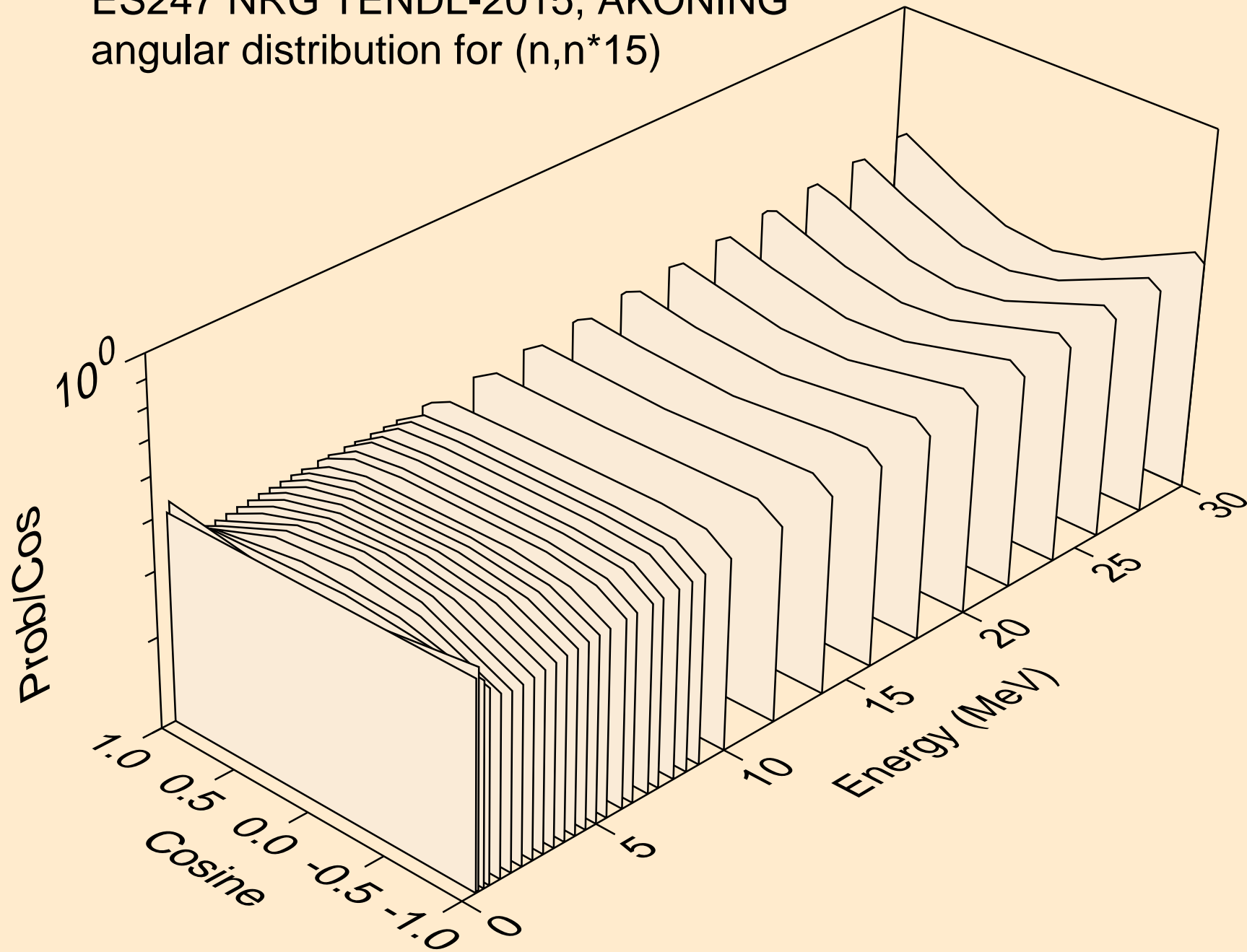
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*13)



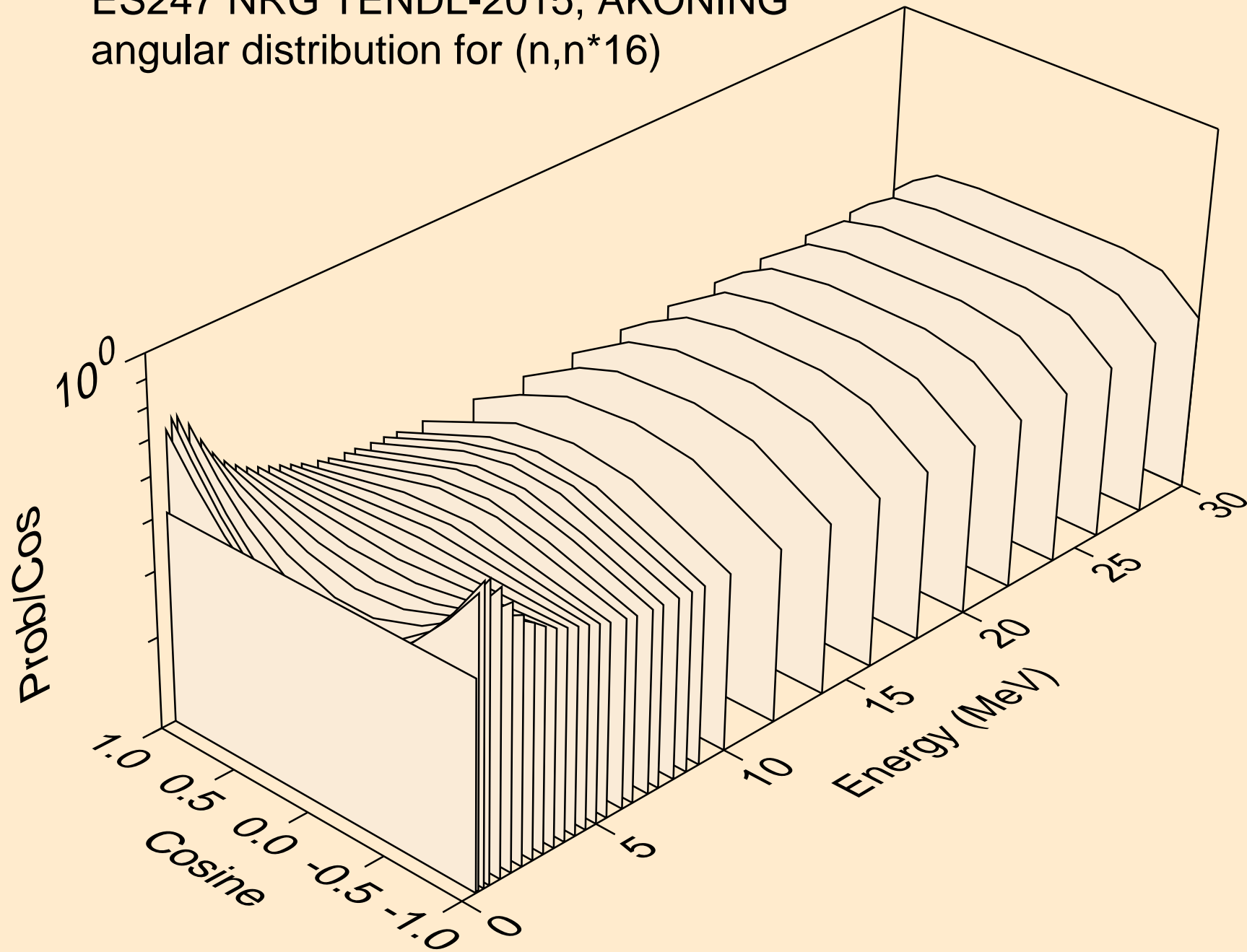
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*14)



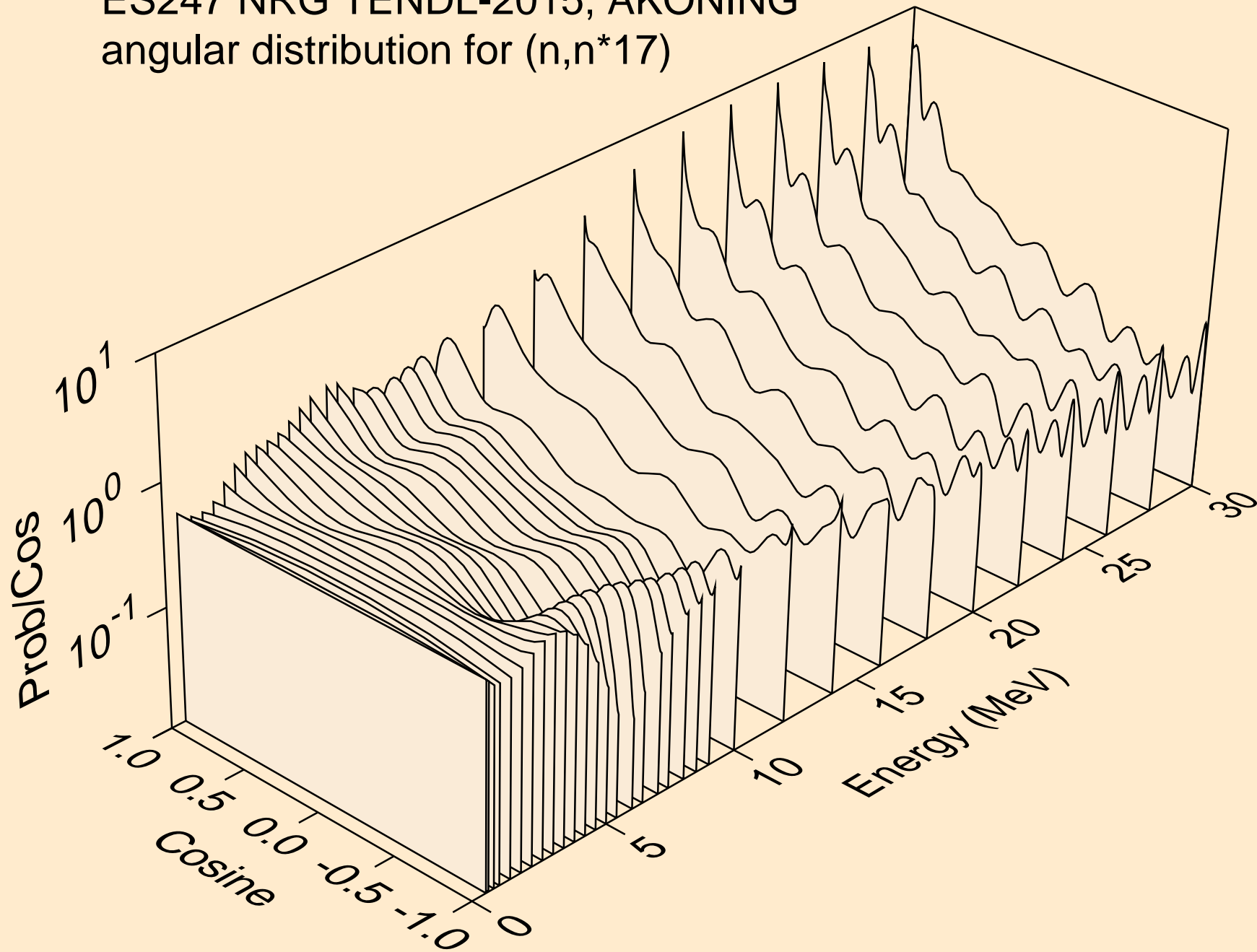
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*15)



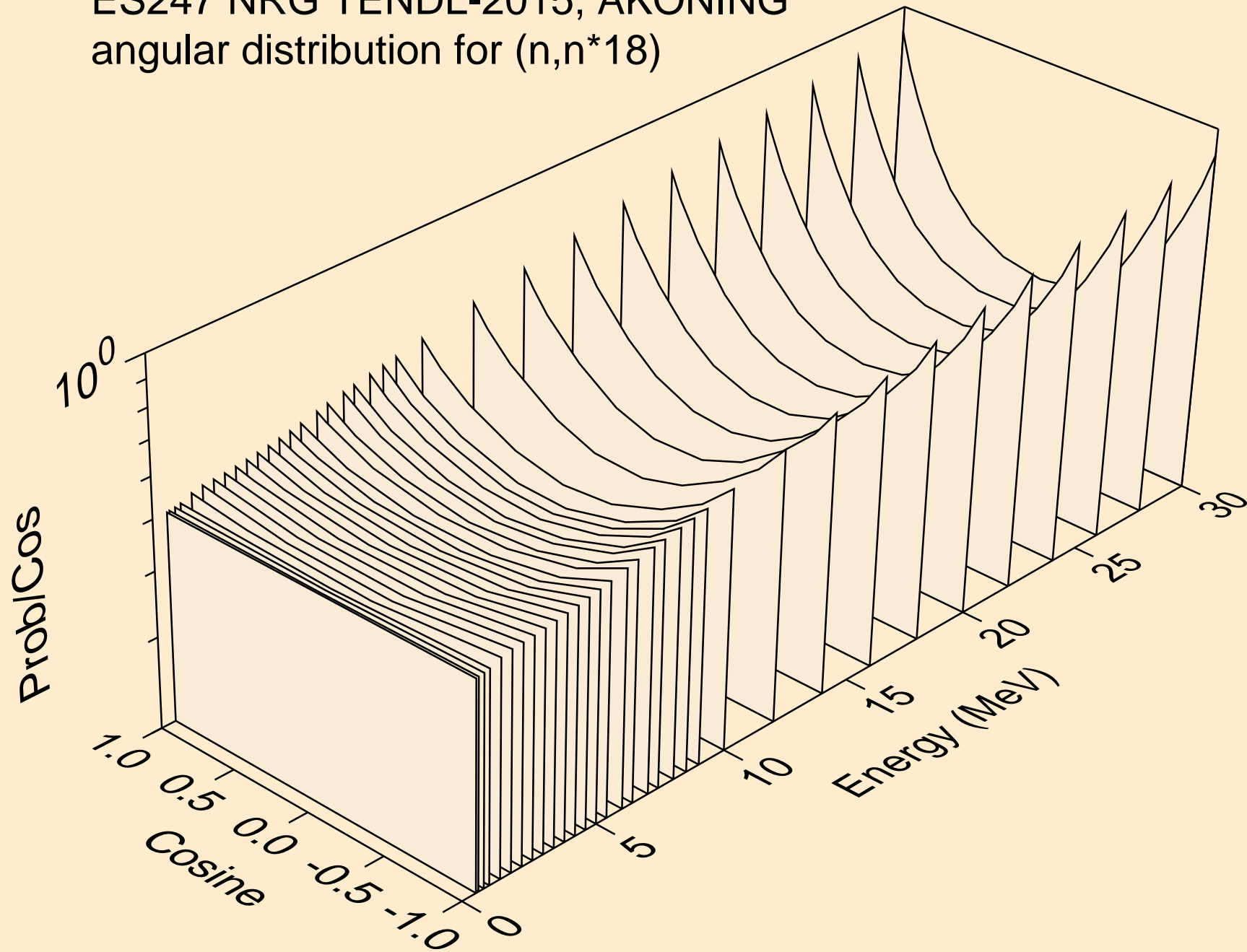
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*16)



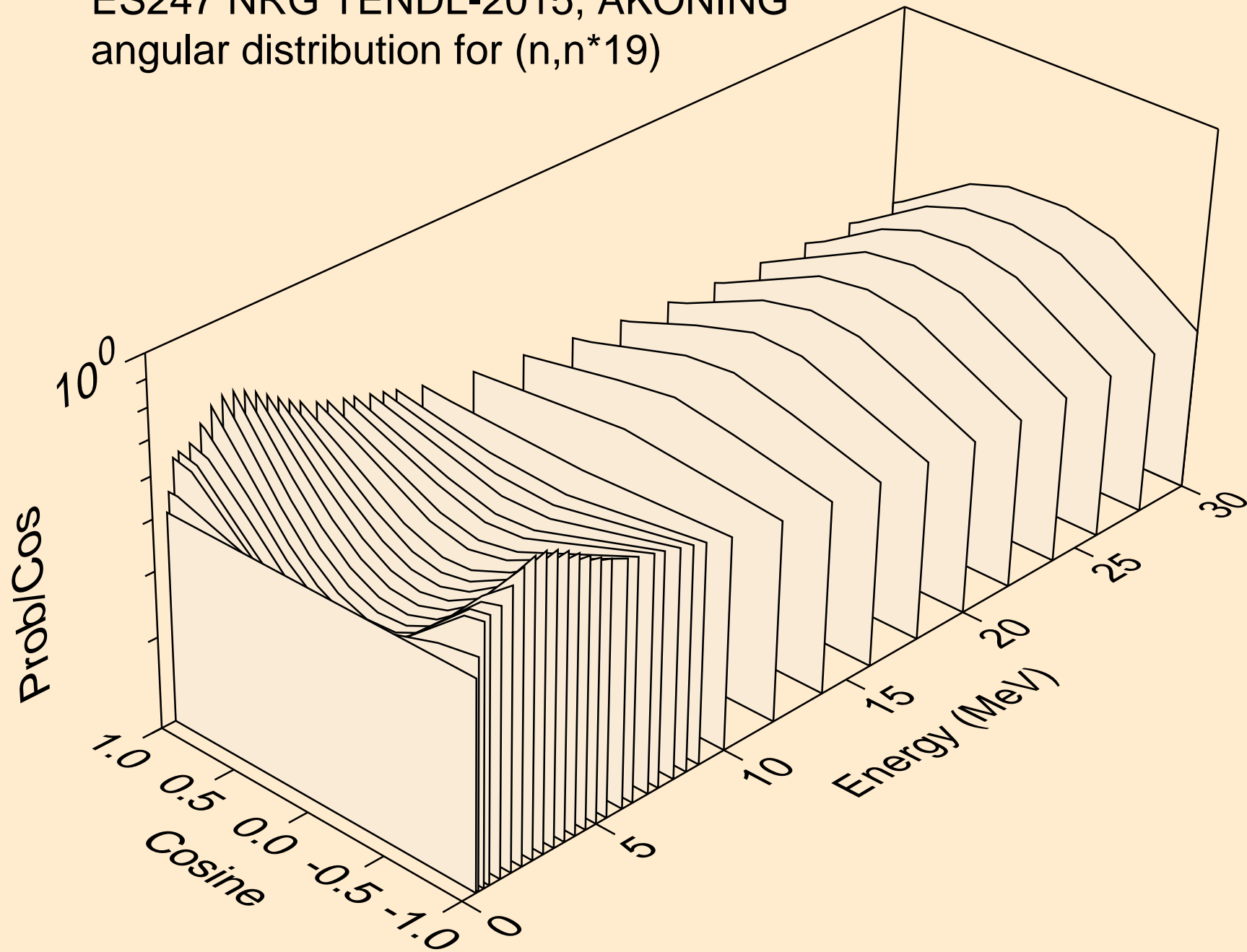
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*17)



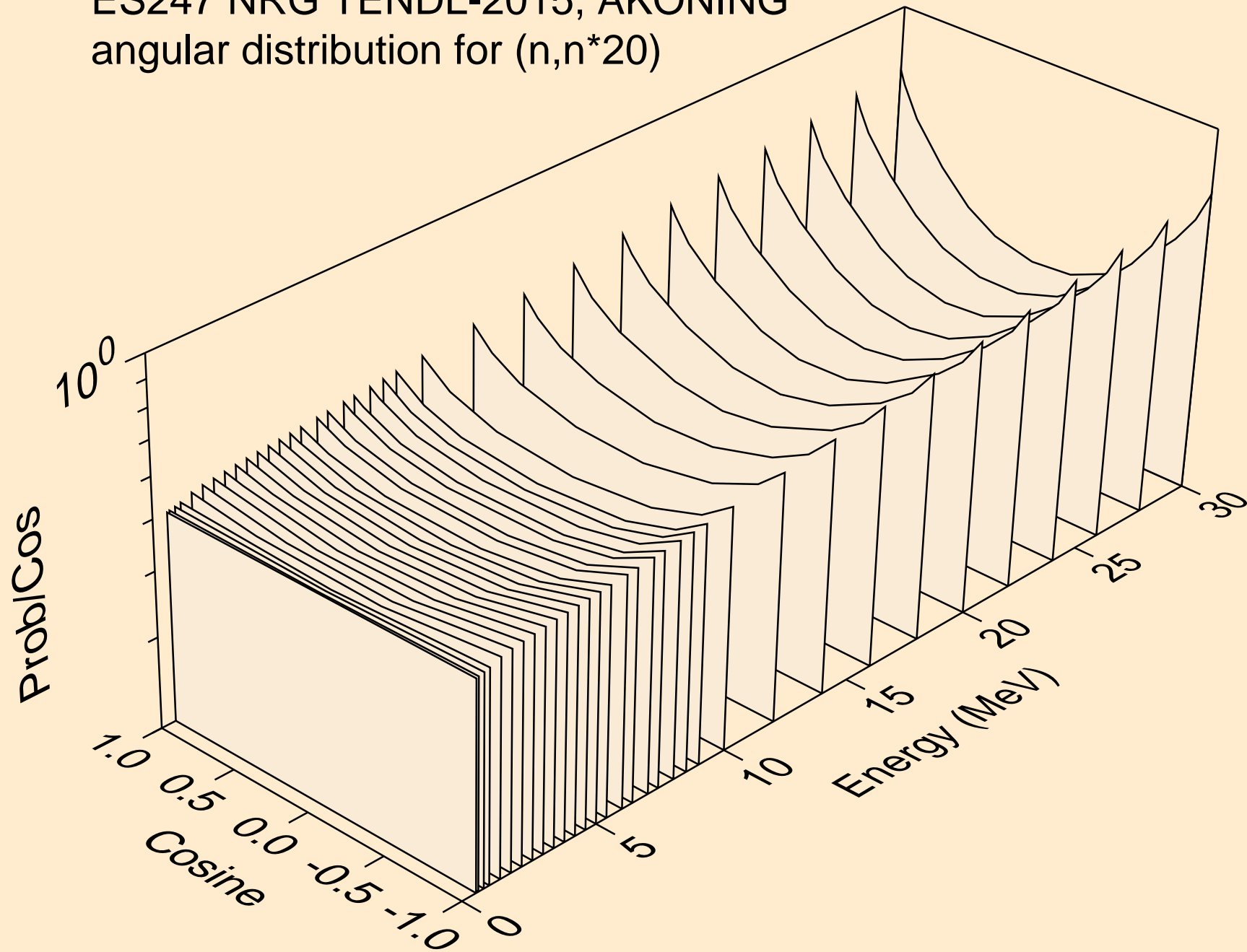
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*18)



ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*19)

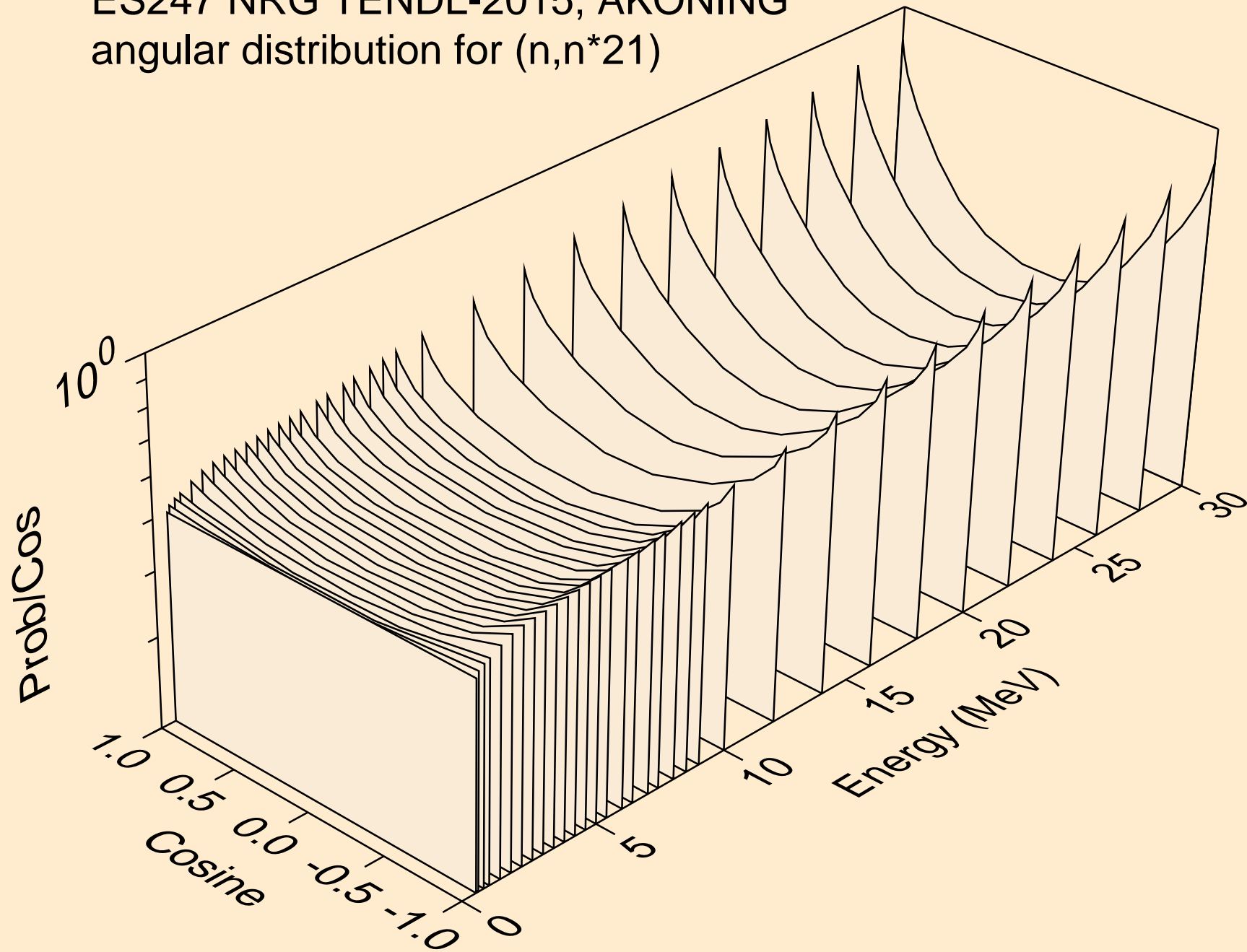


ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*20)

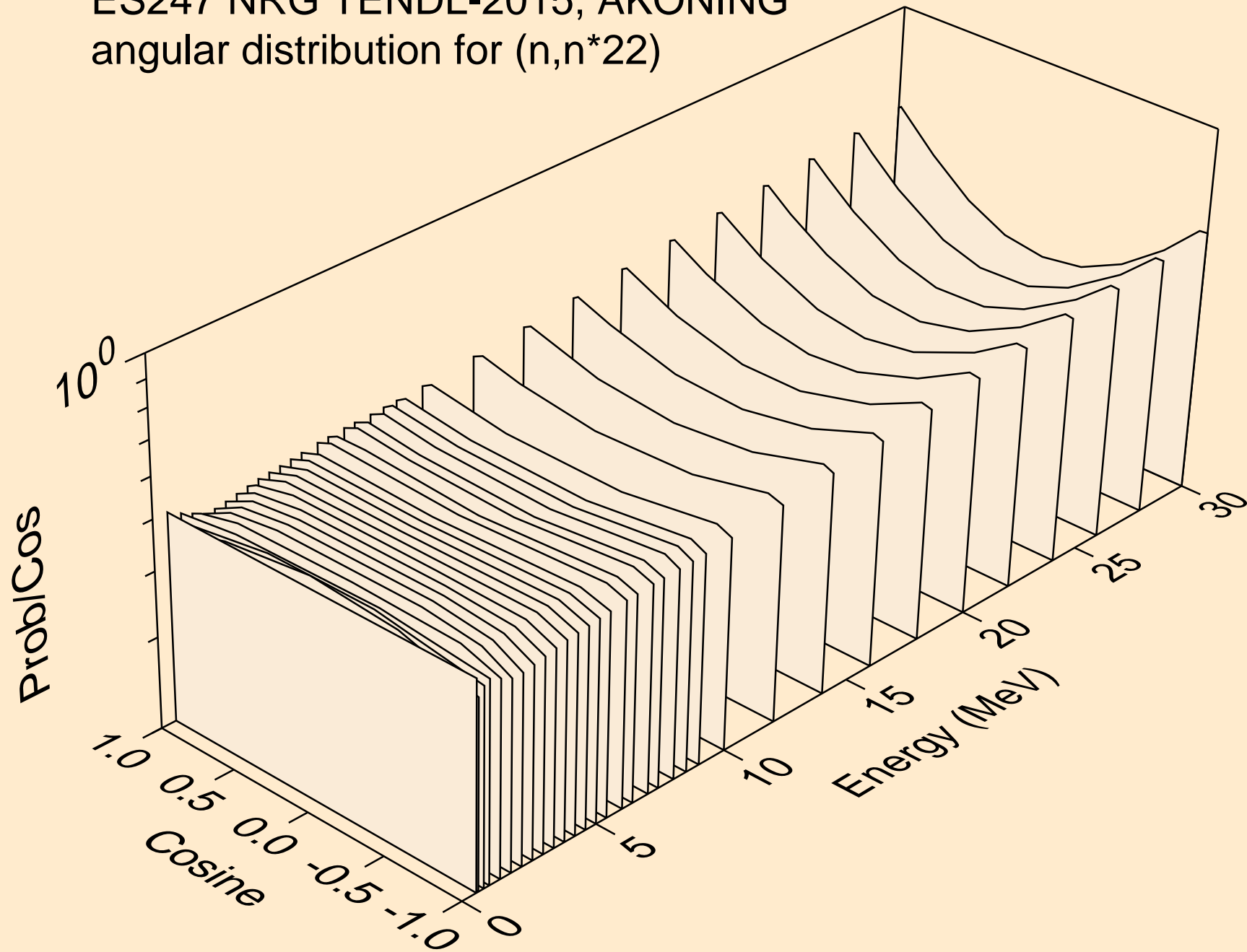




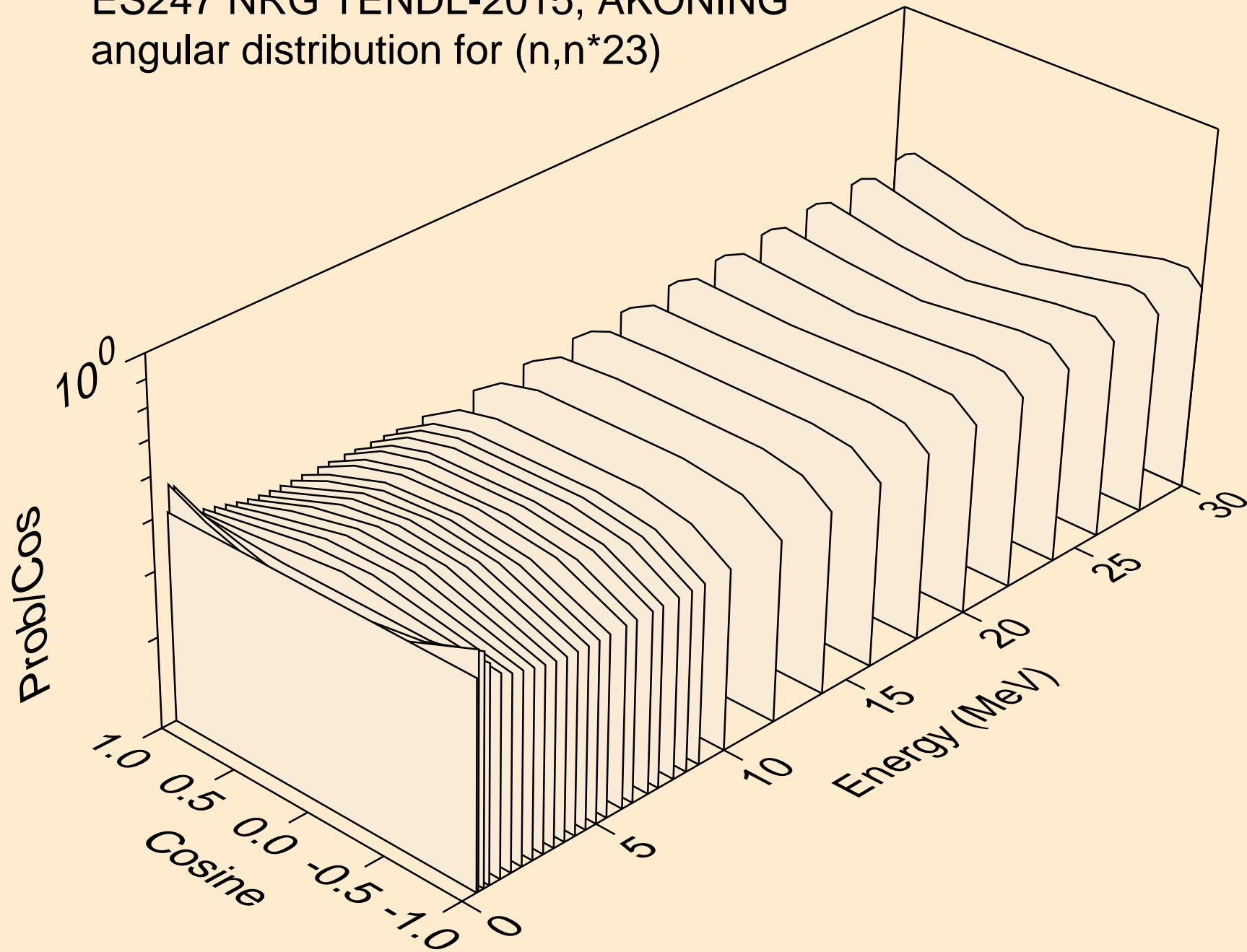
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*21)



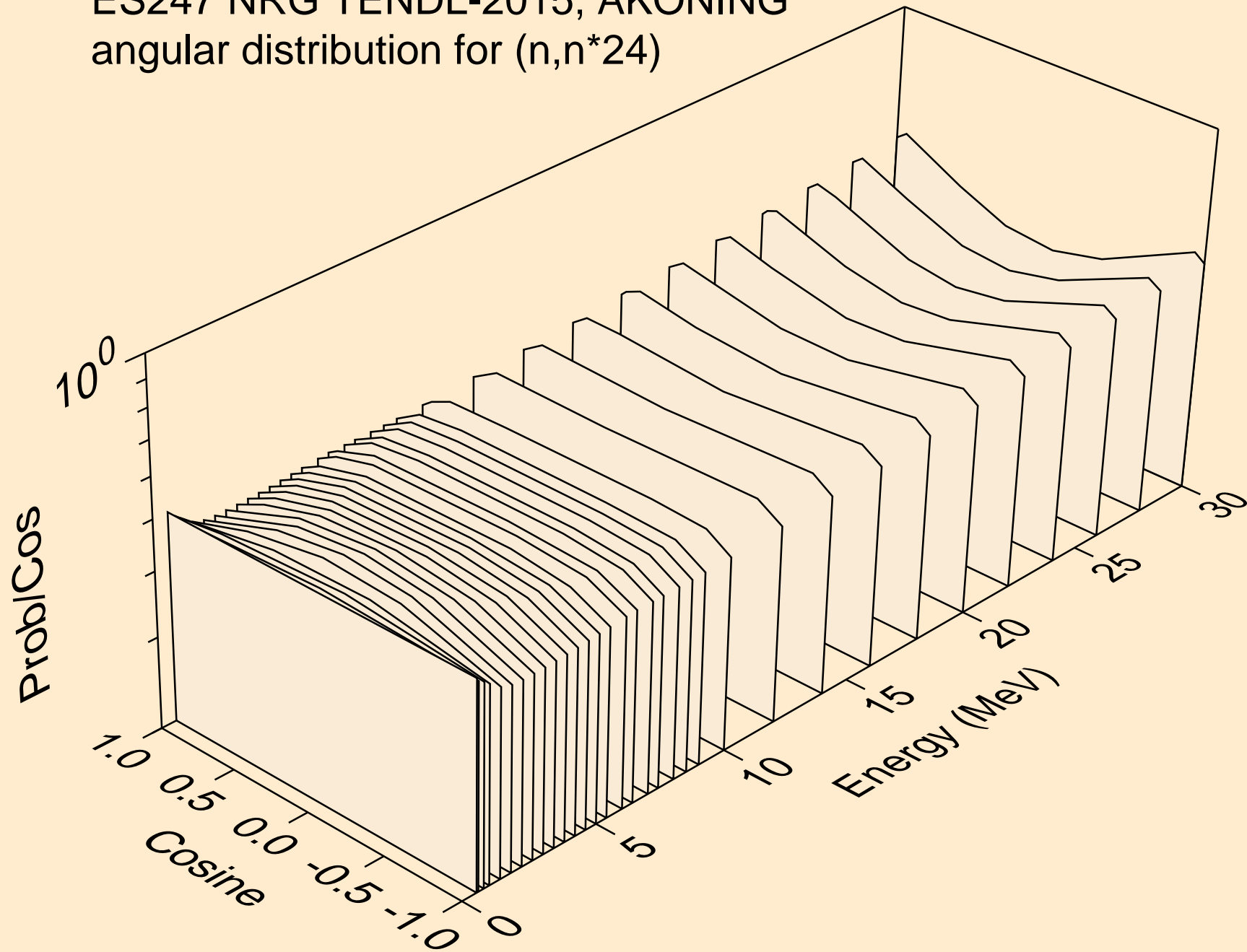
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*22)



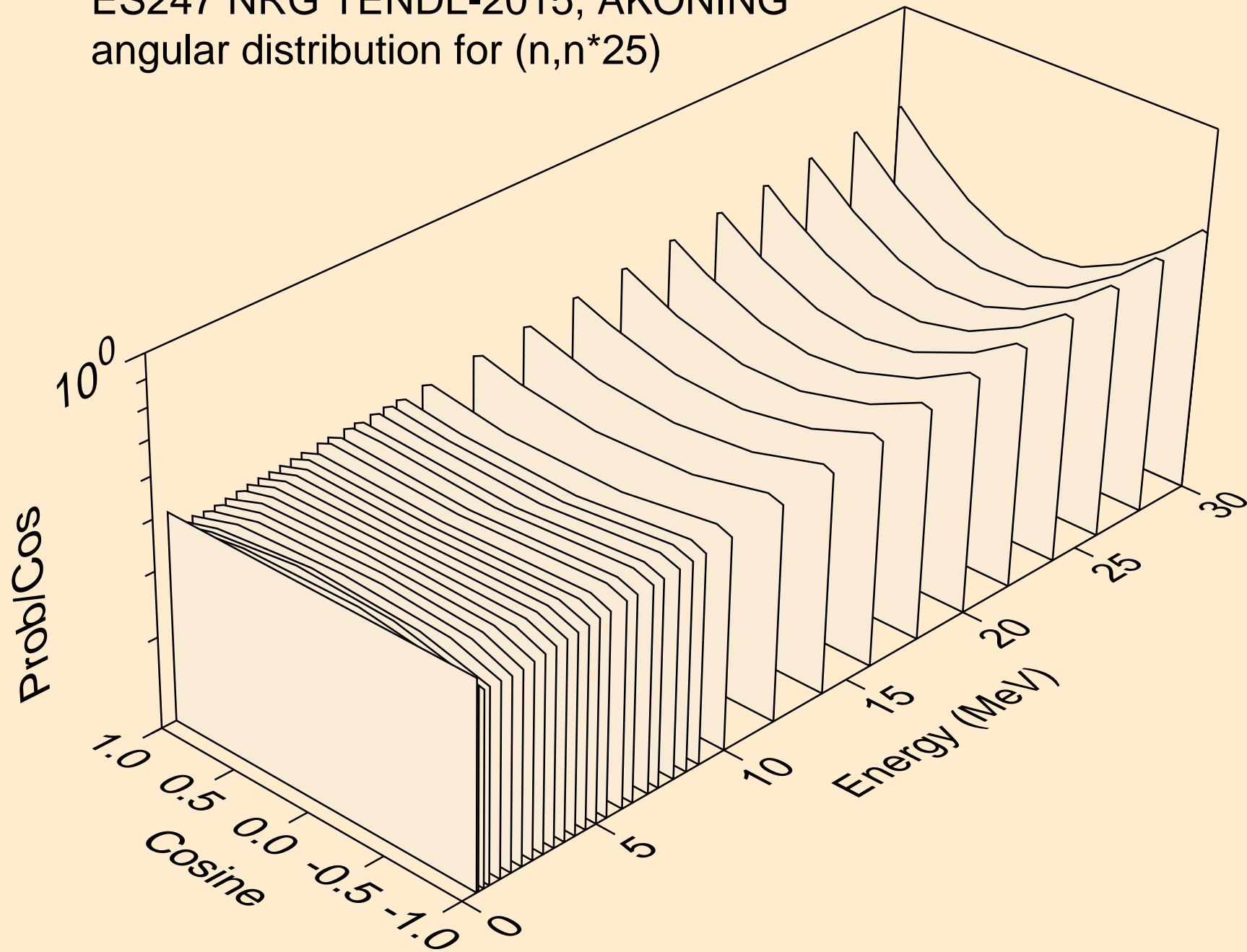
ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*23)



ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*24)

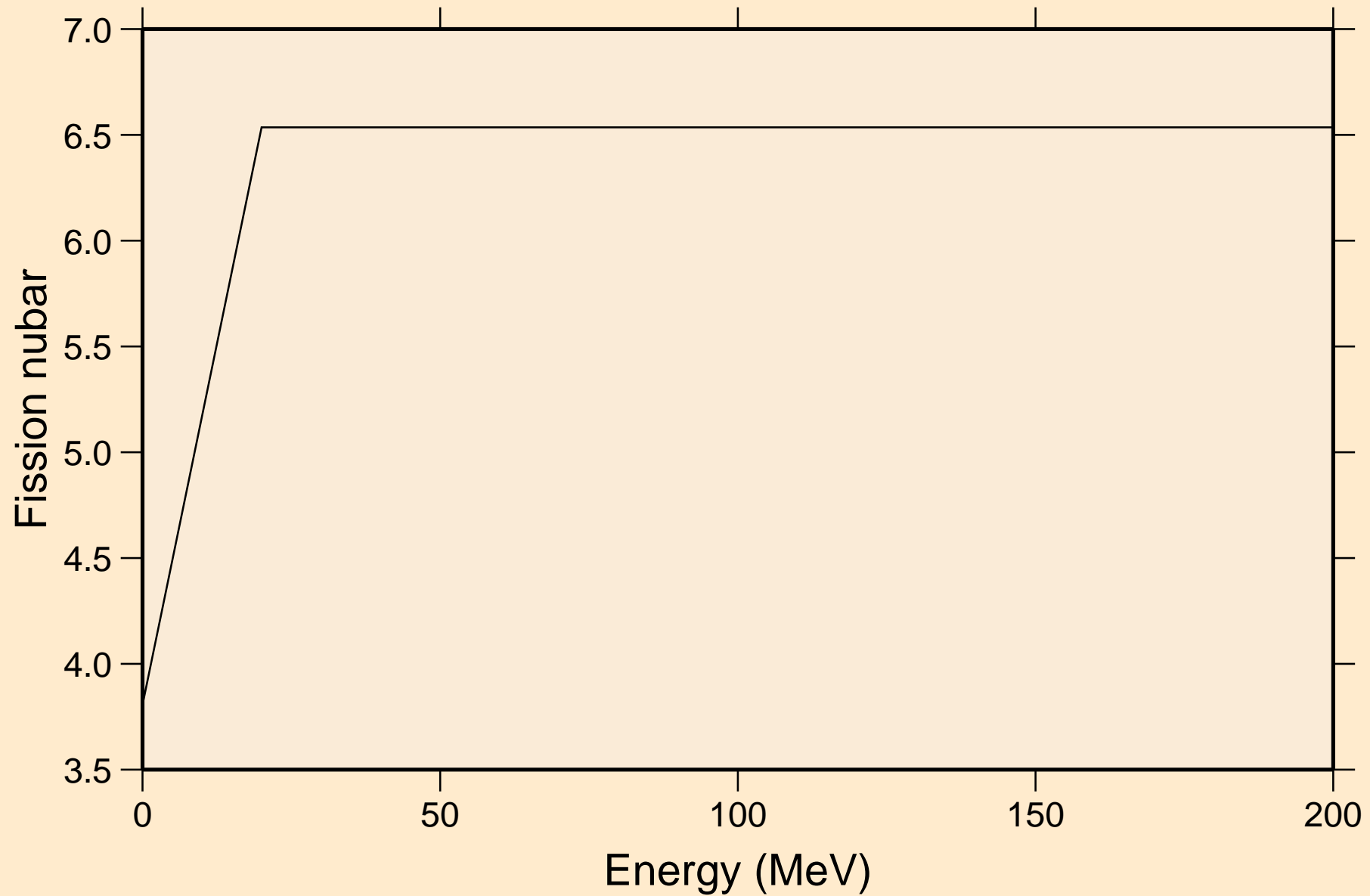


ES247 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*25)

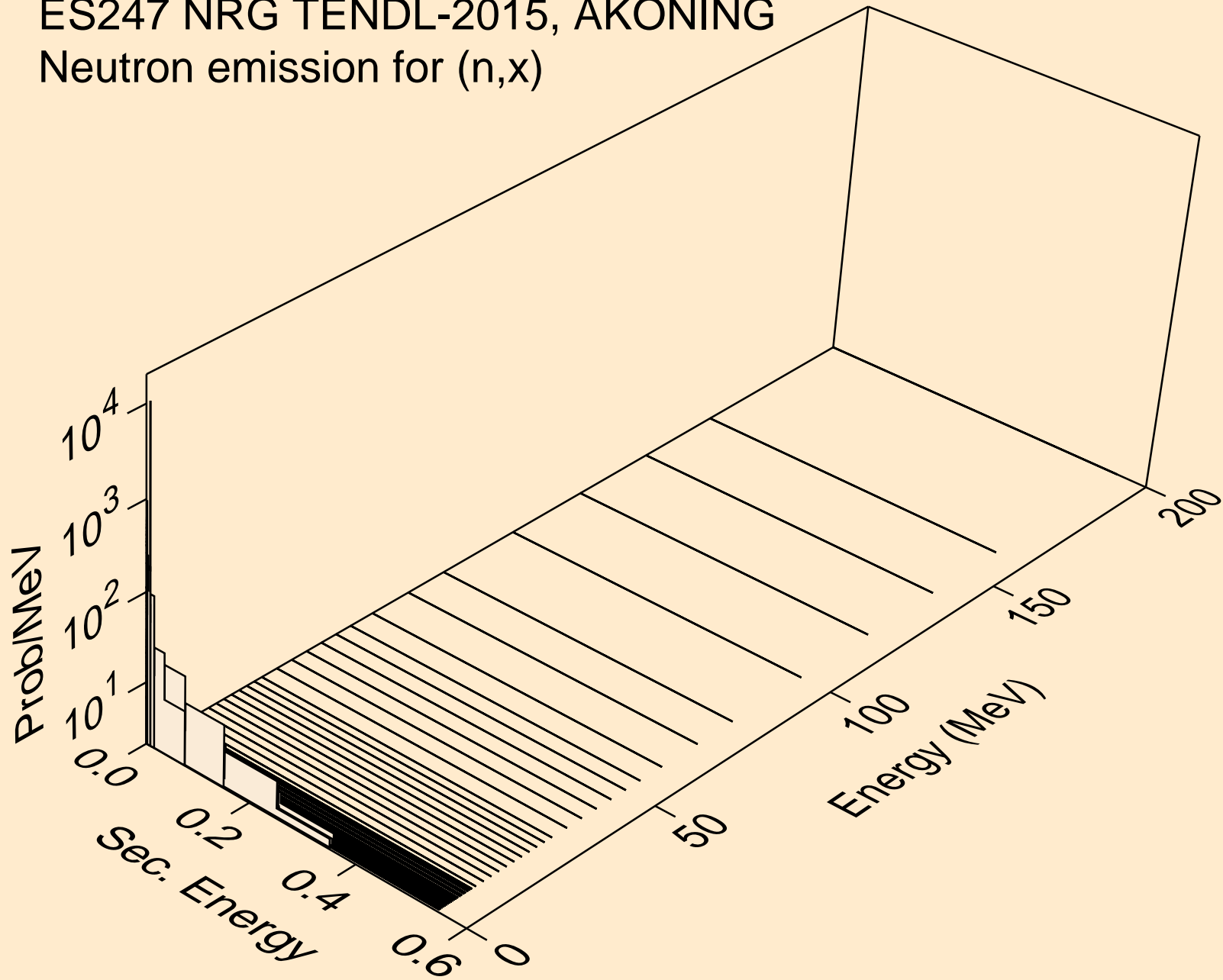


# ES247 NRG TENDL-2015, AKONING

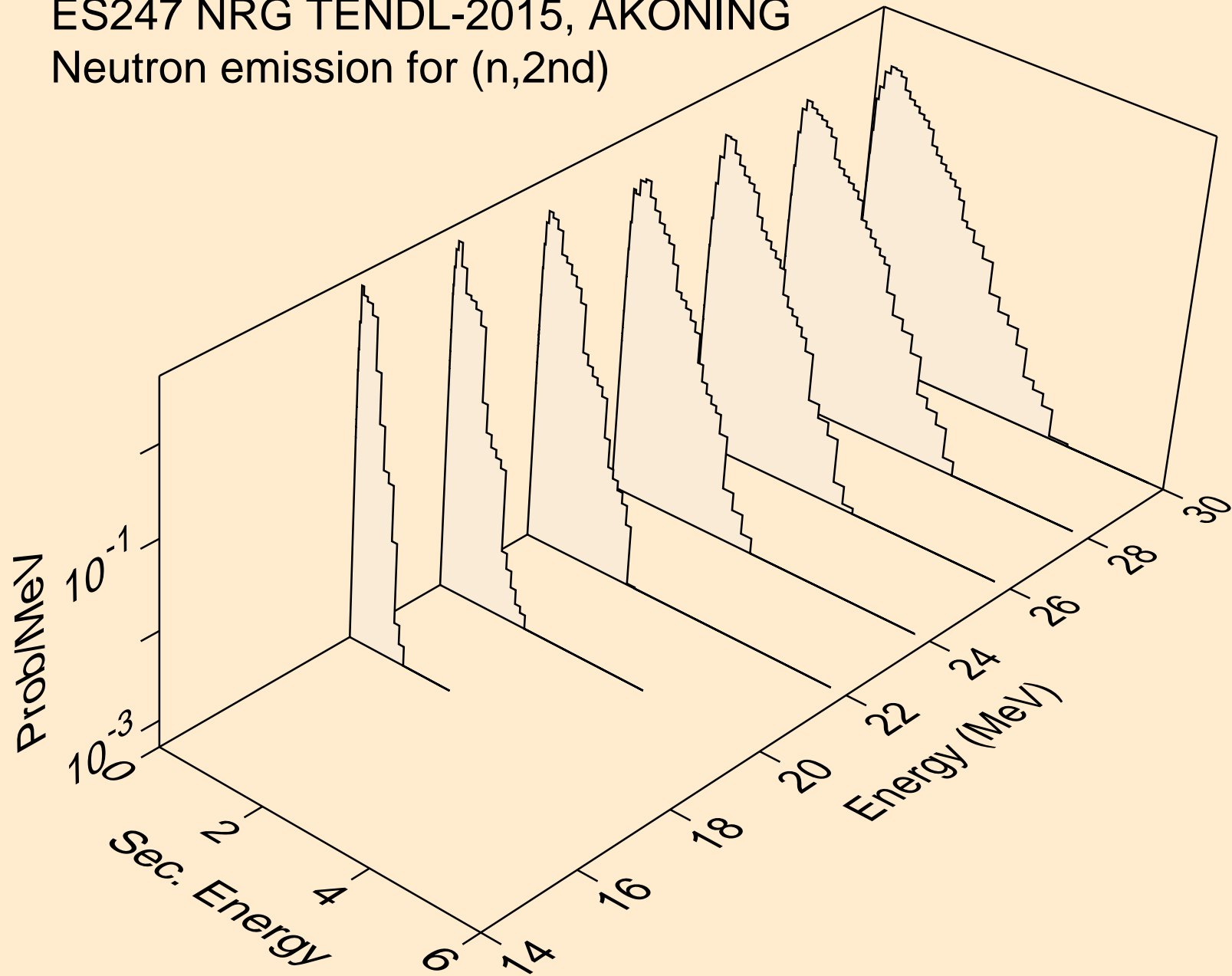
Total fission nubar



ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,x)

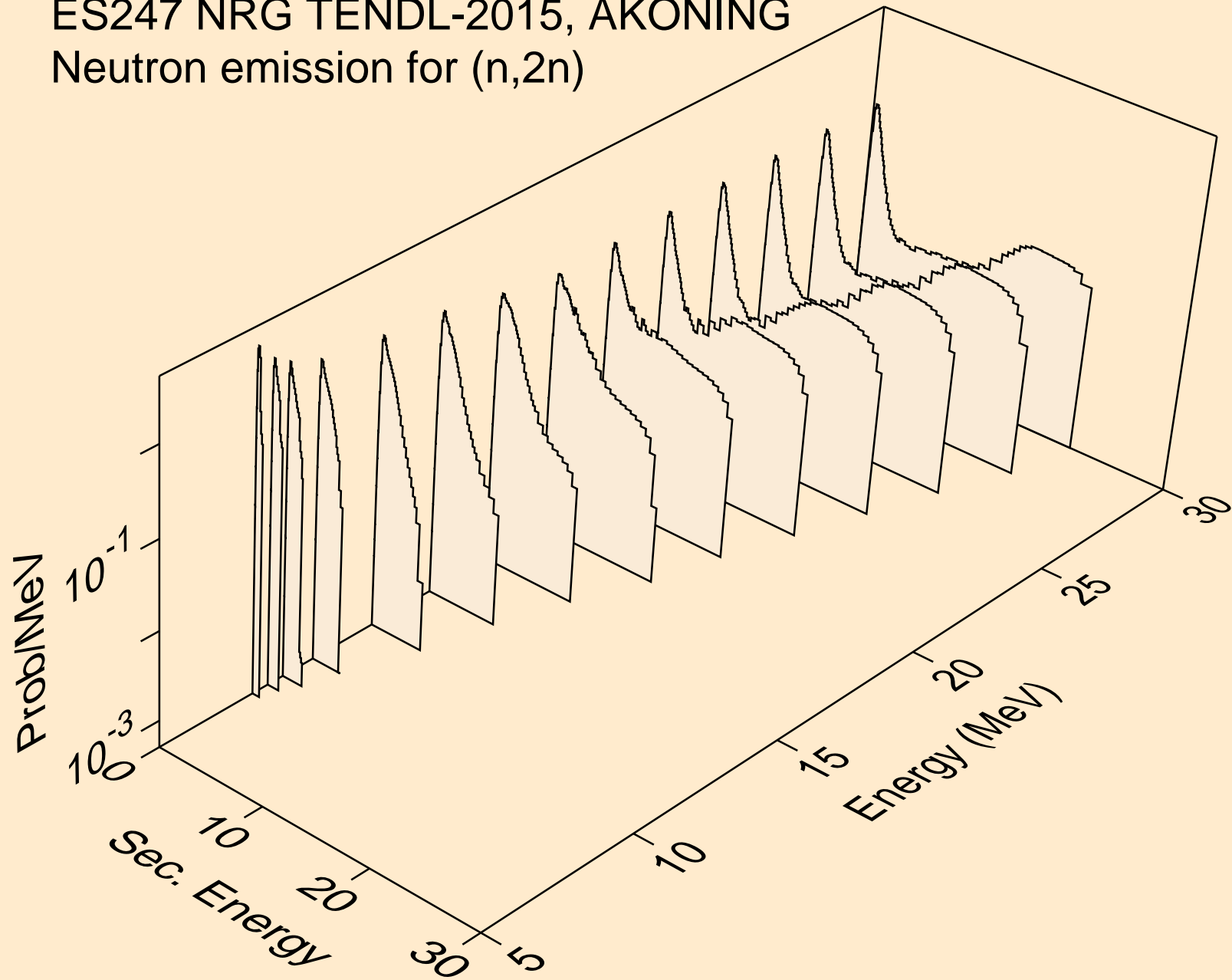


ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,2nd)

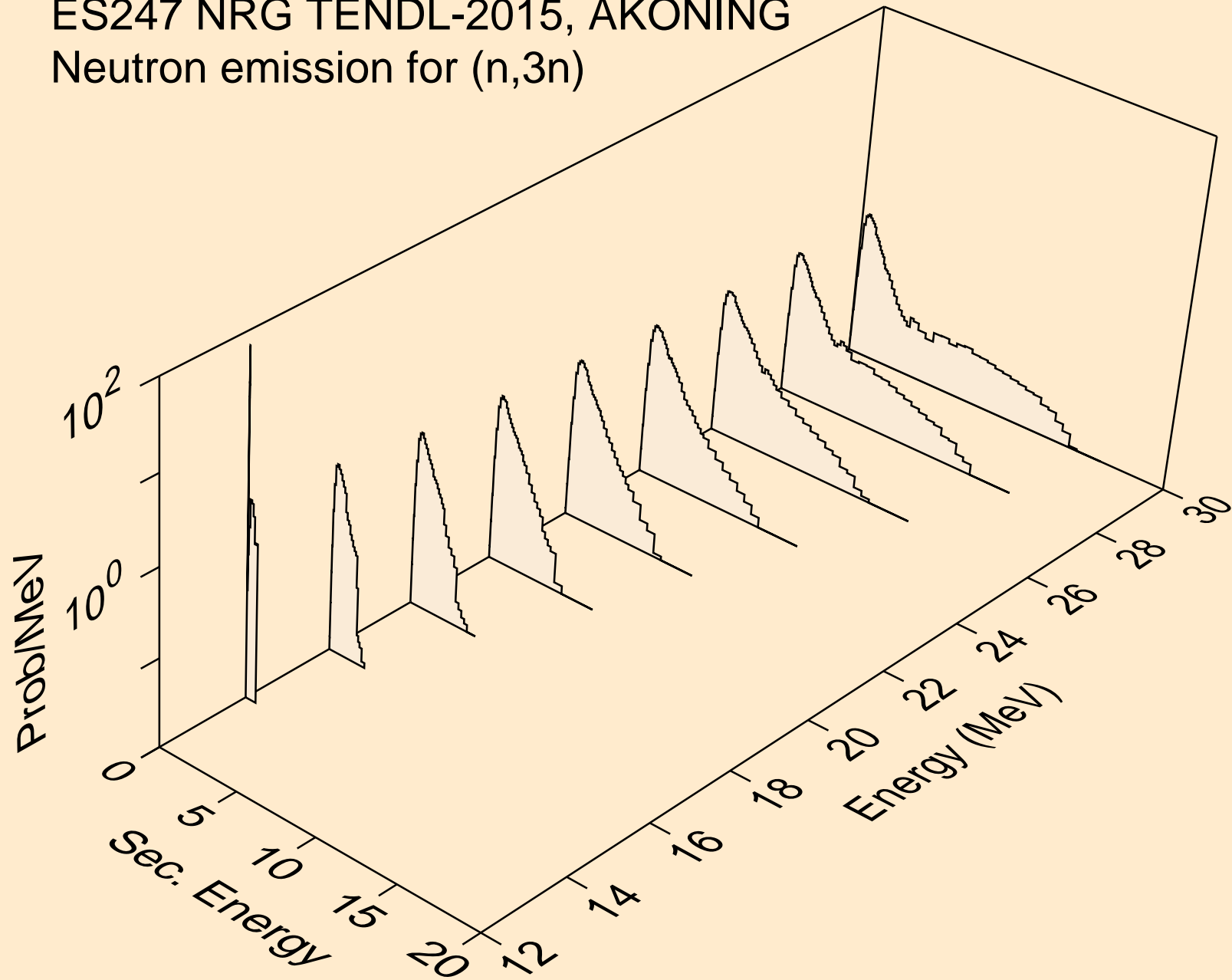




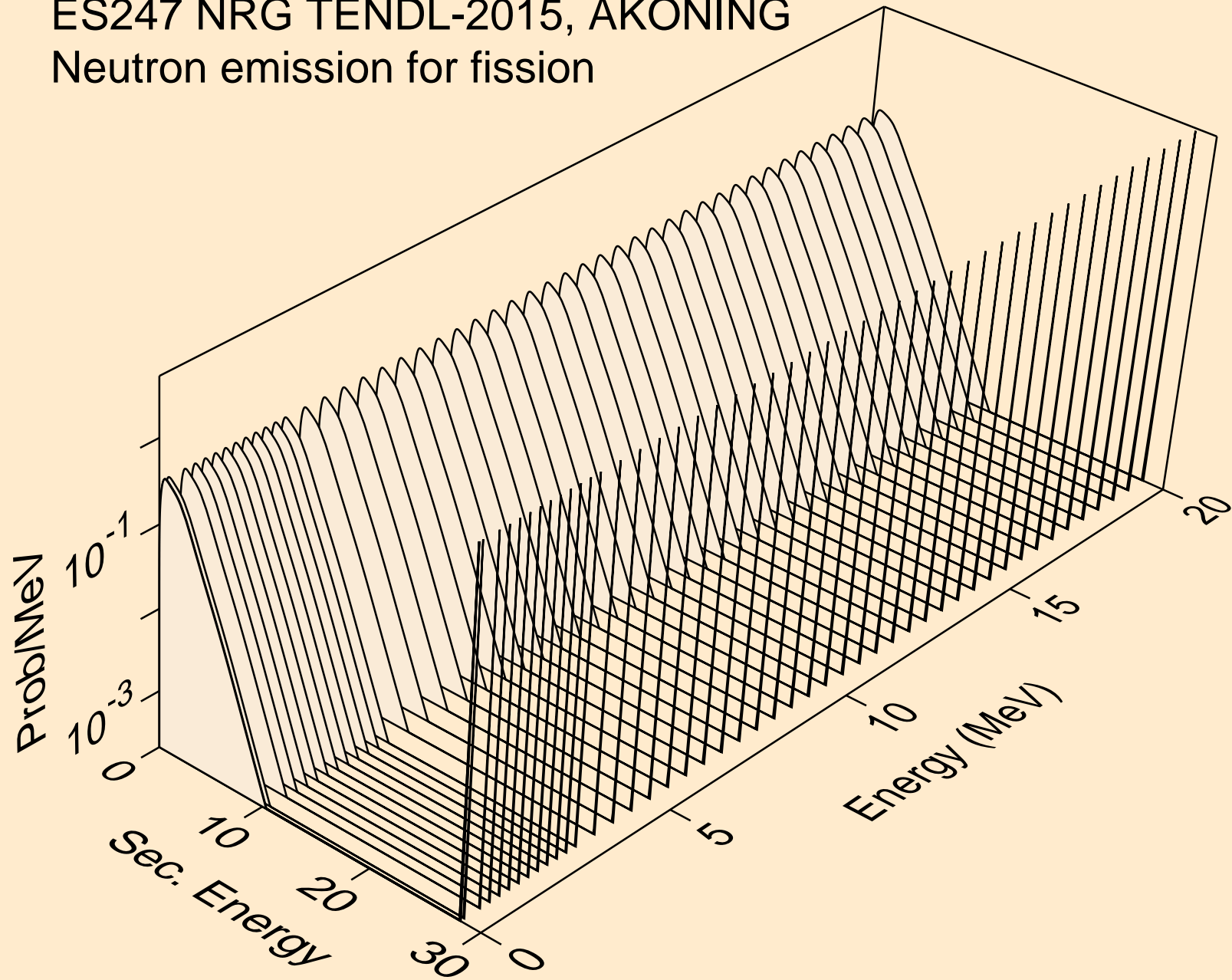
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)



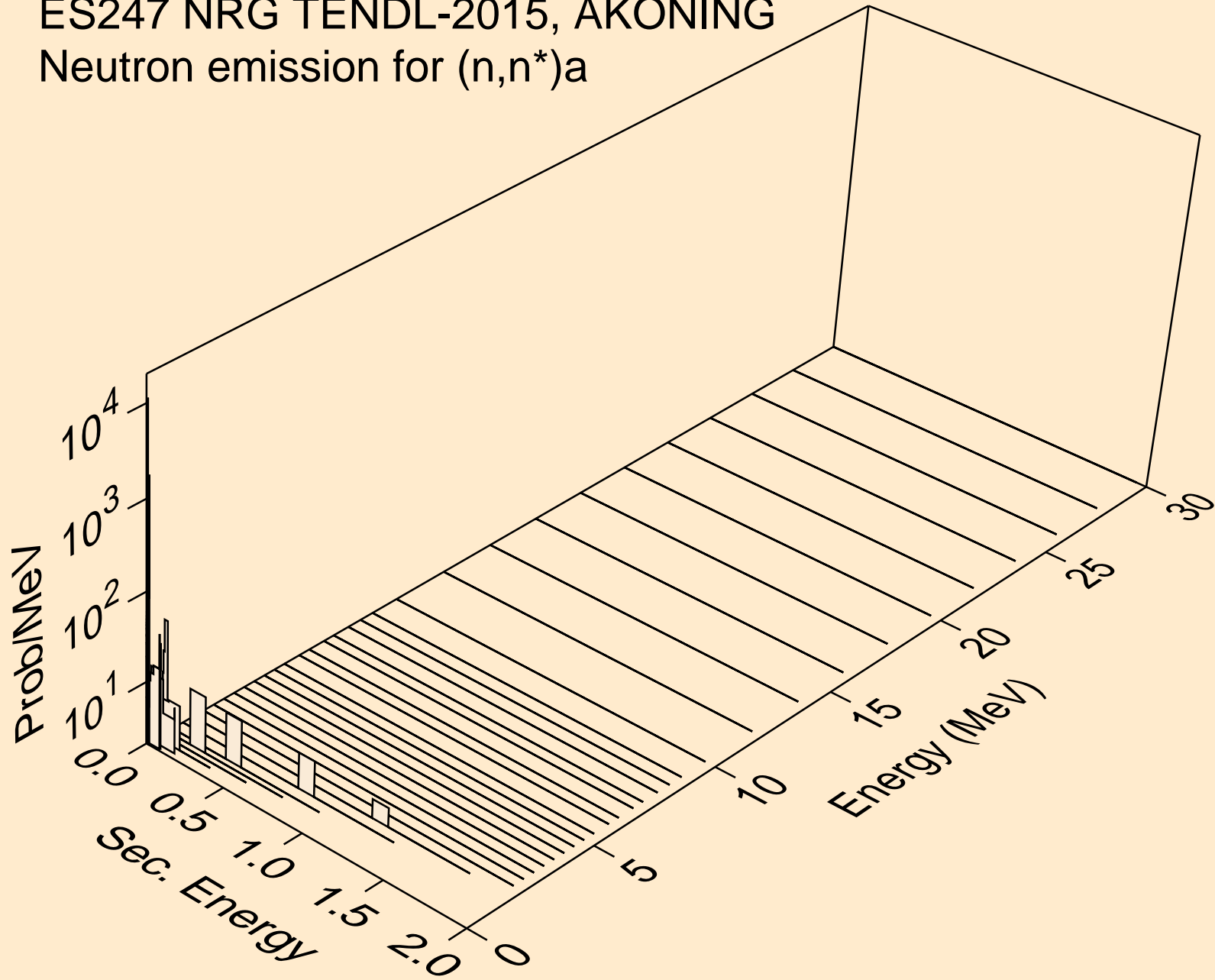
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)



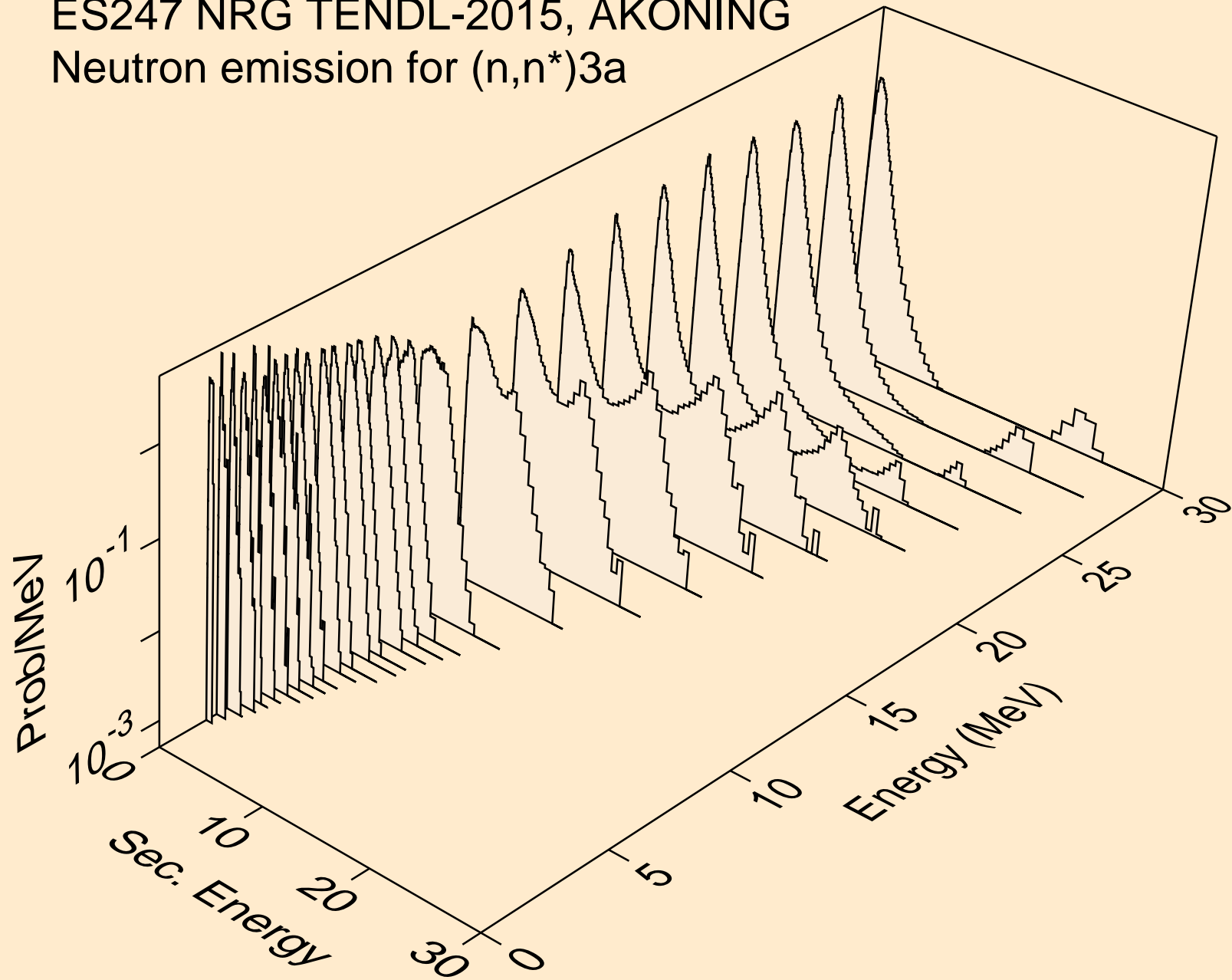
ES247 NRG TENDL-2015, AKONING  
Neutron emission for fission



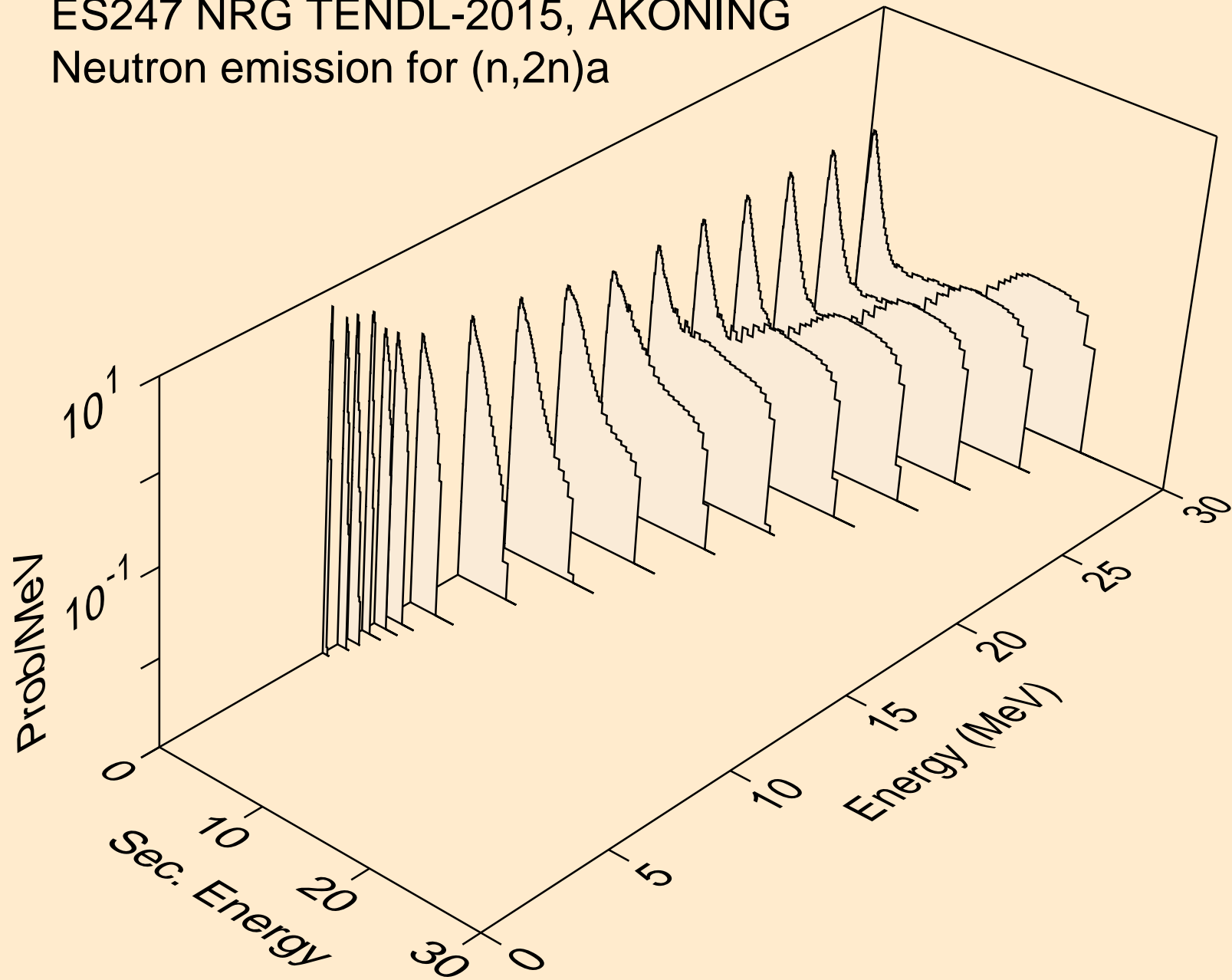
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)a



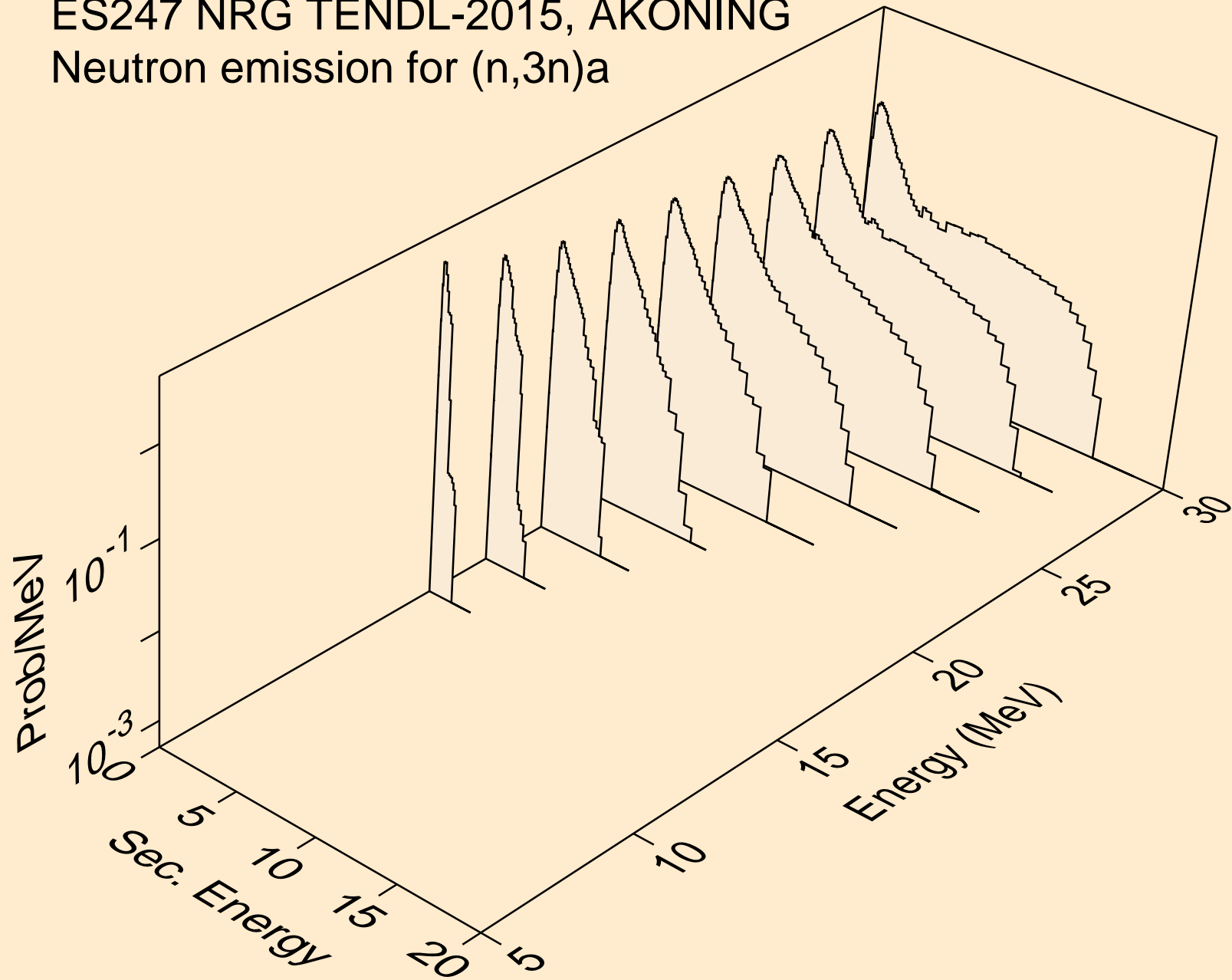
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)3a



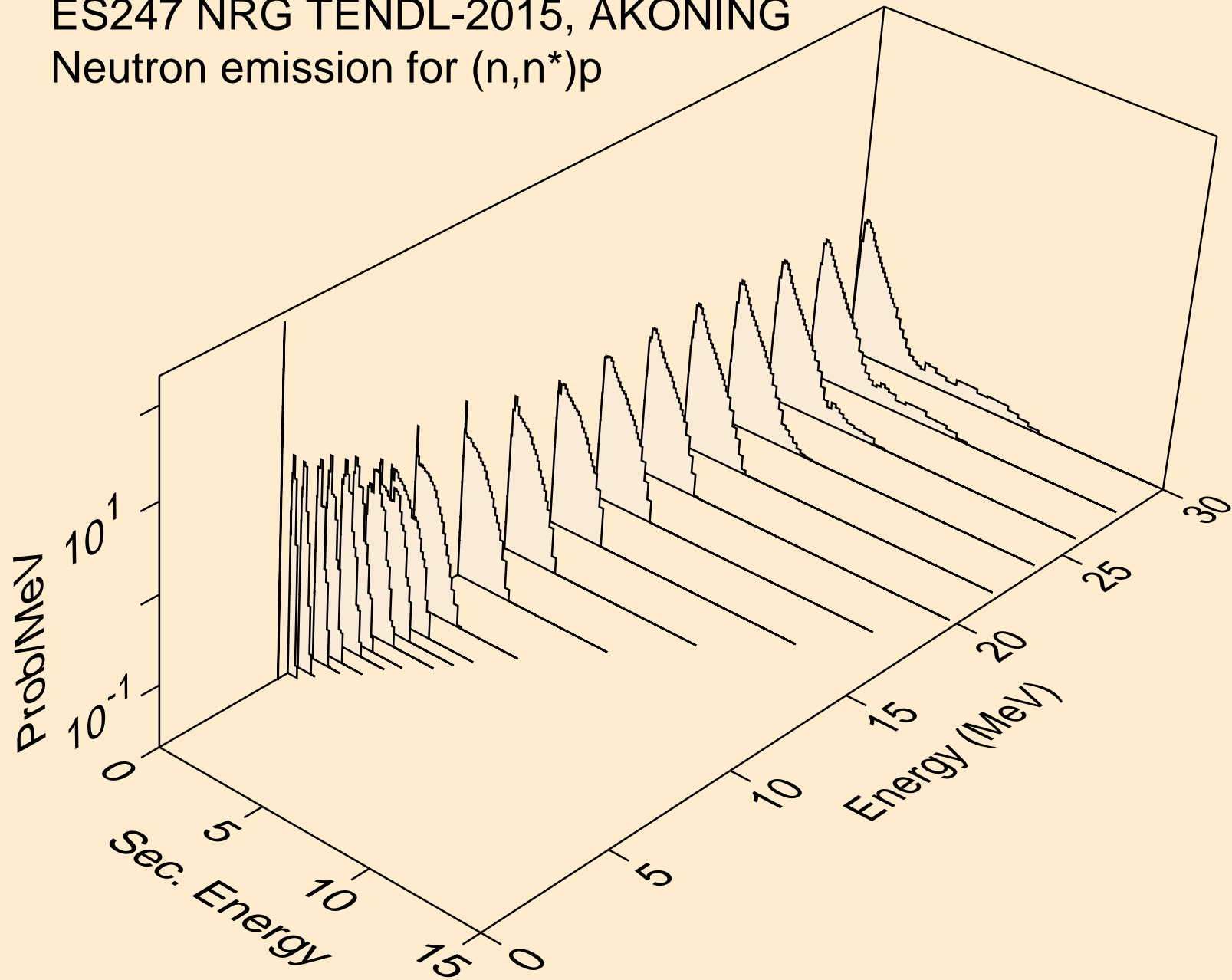
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)a



ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)a

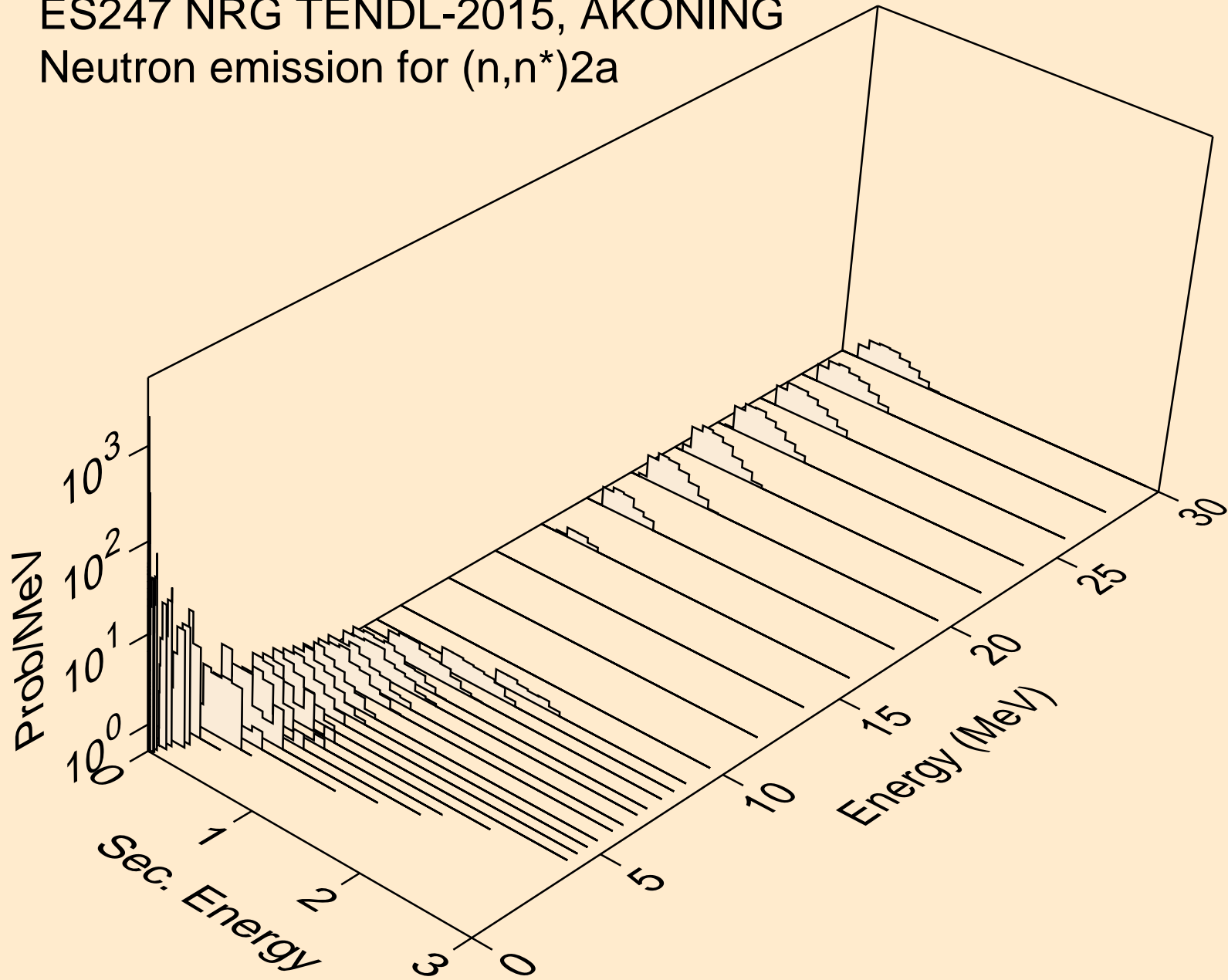


ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)p

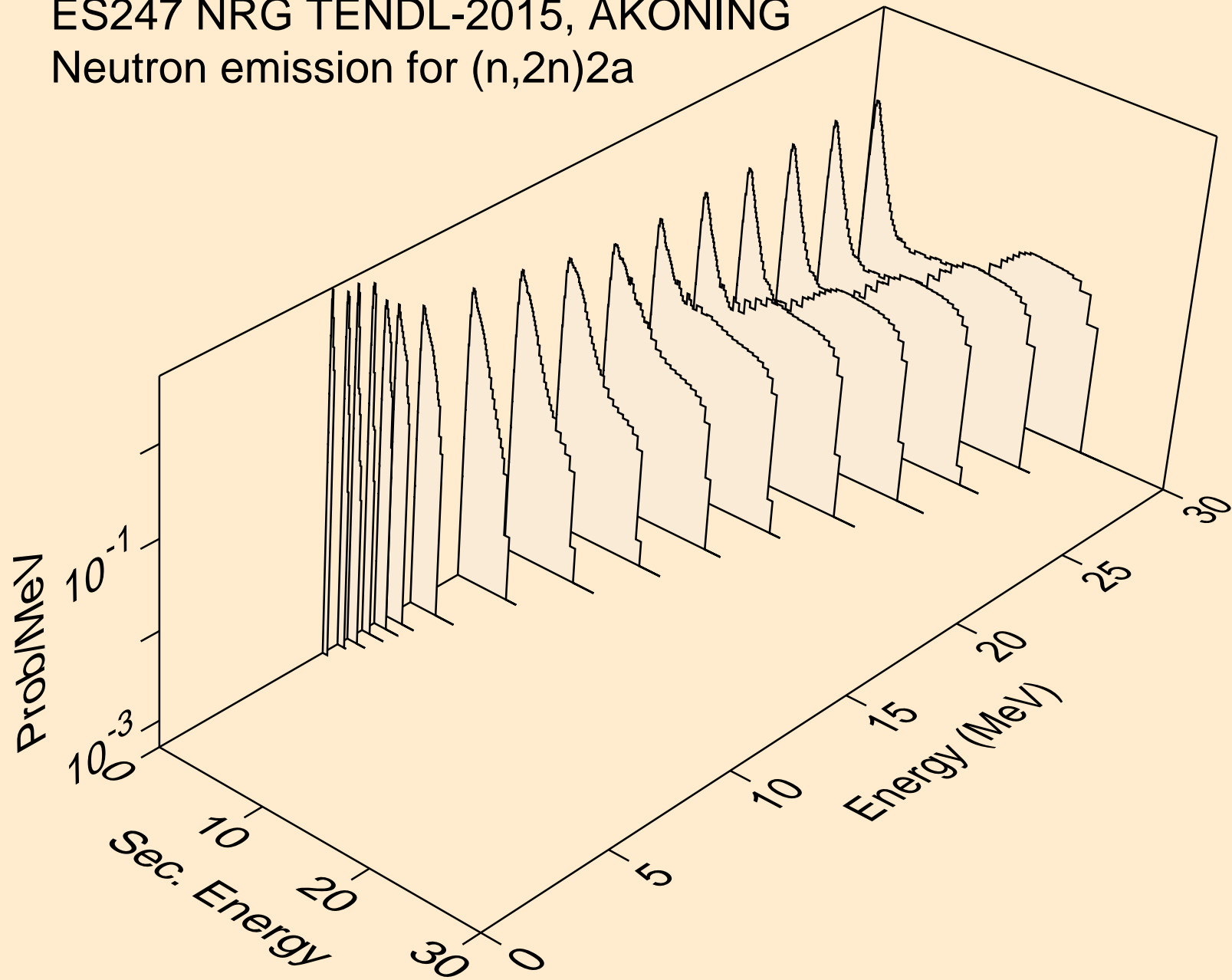




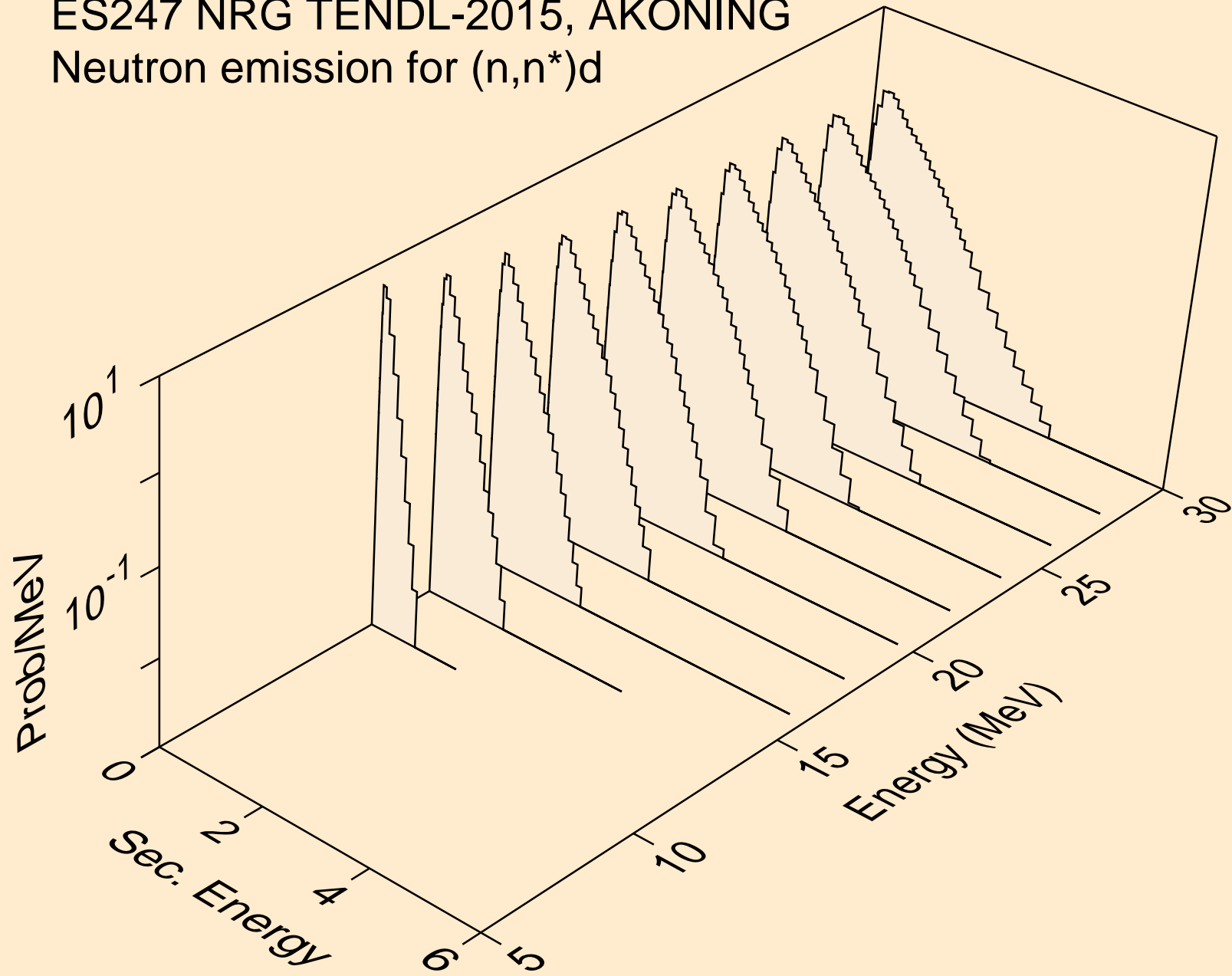
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)2a



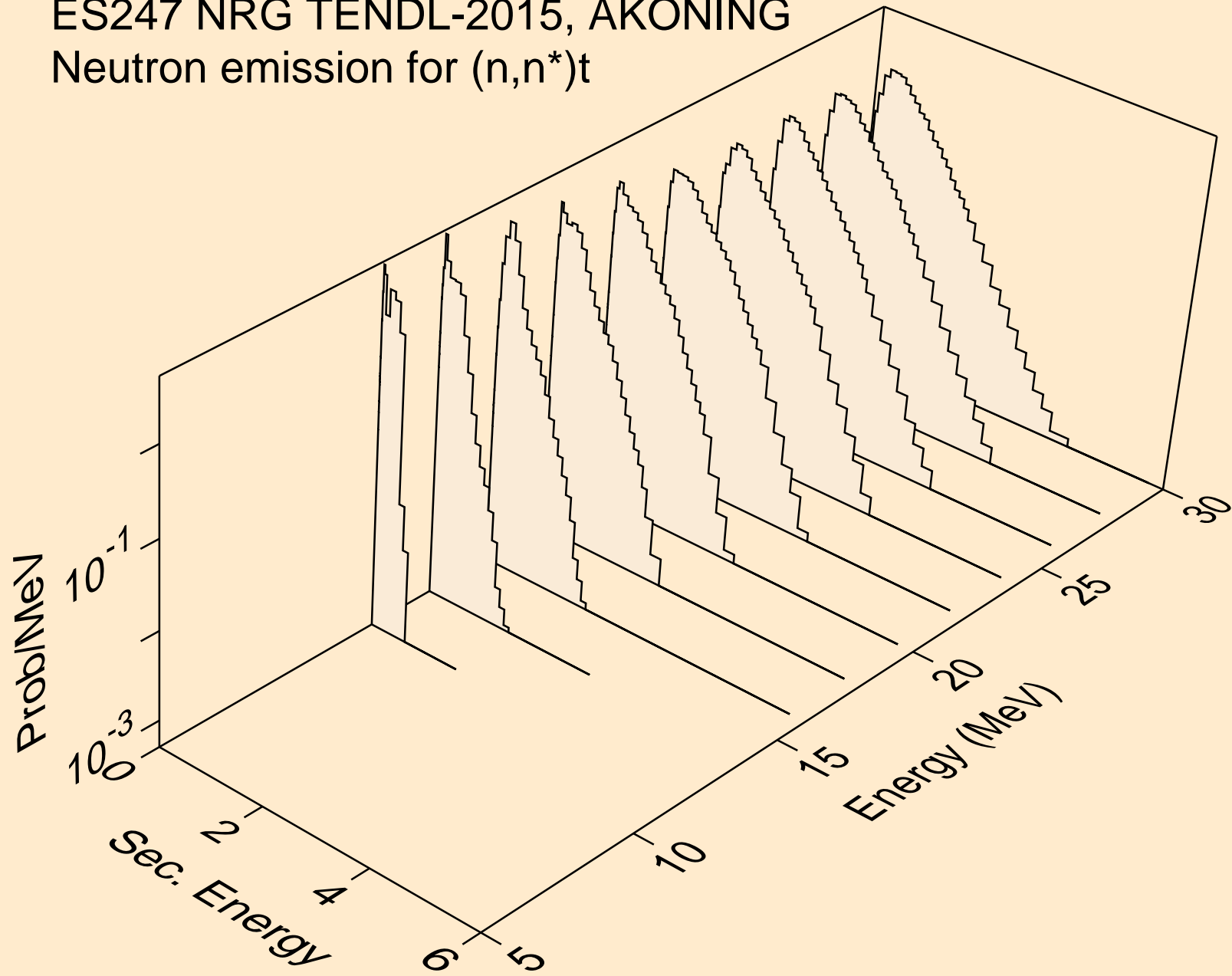
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)2a



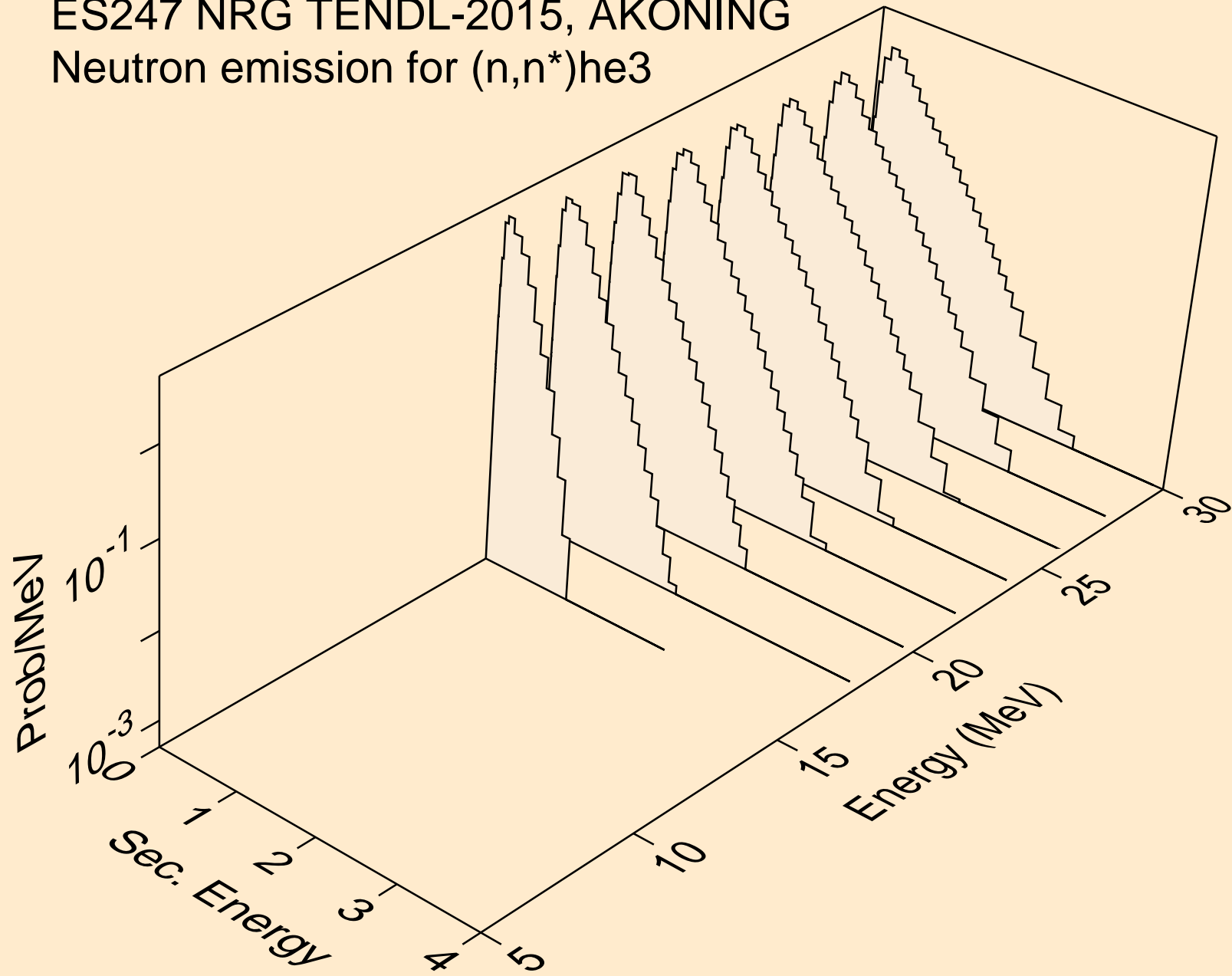
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d



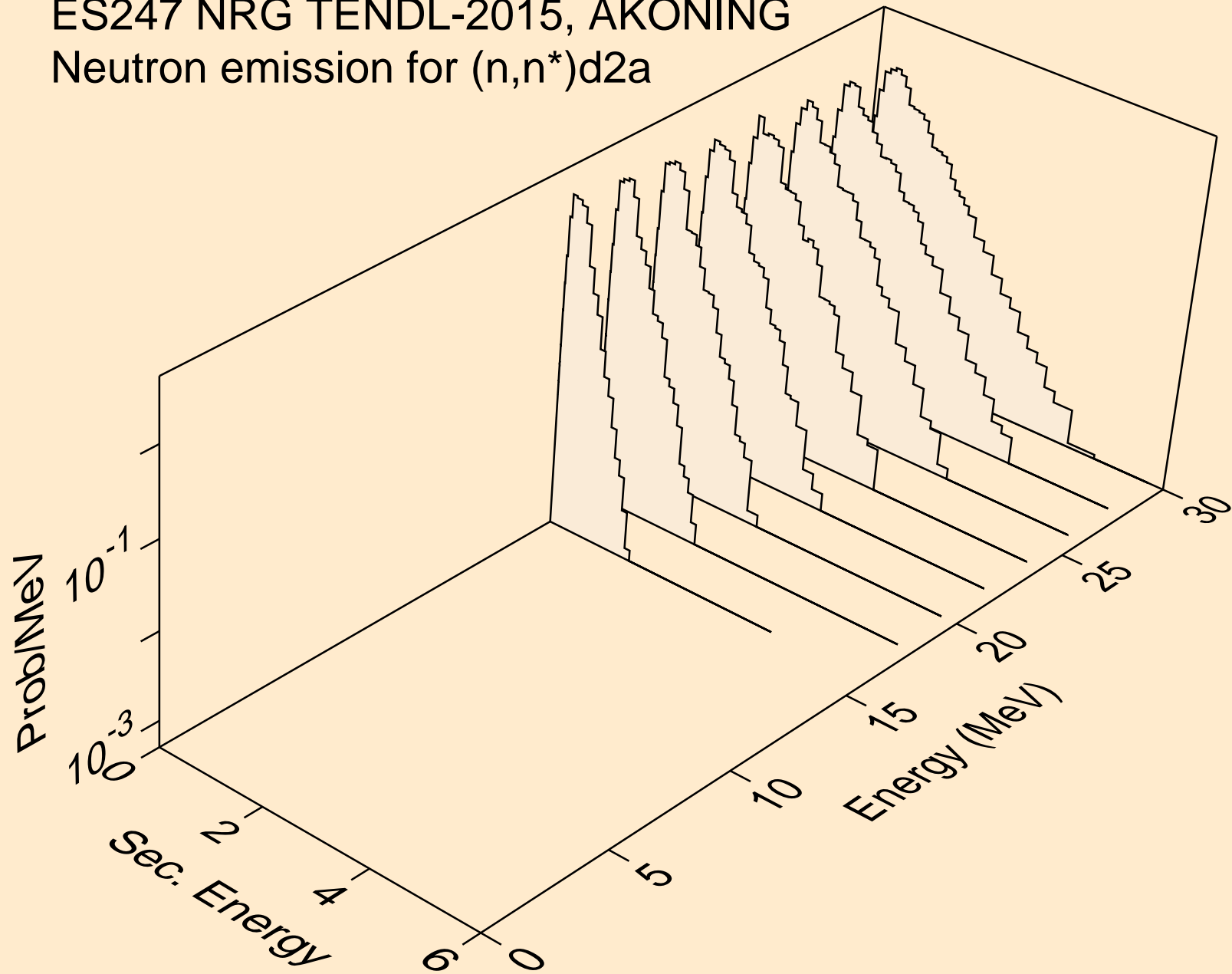
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t



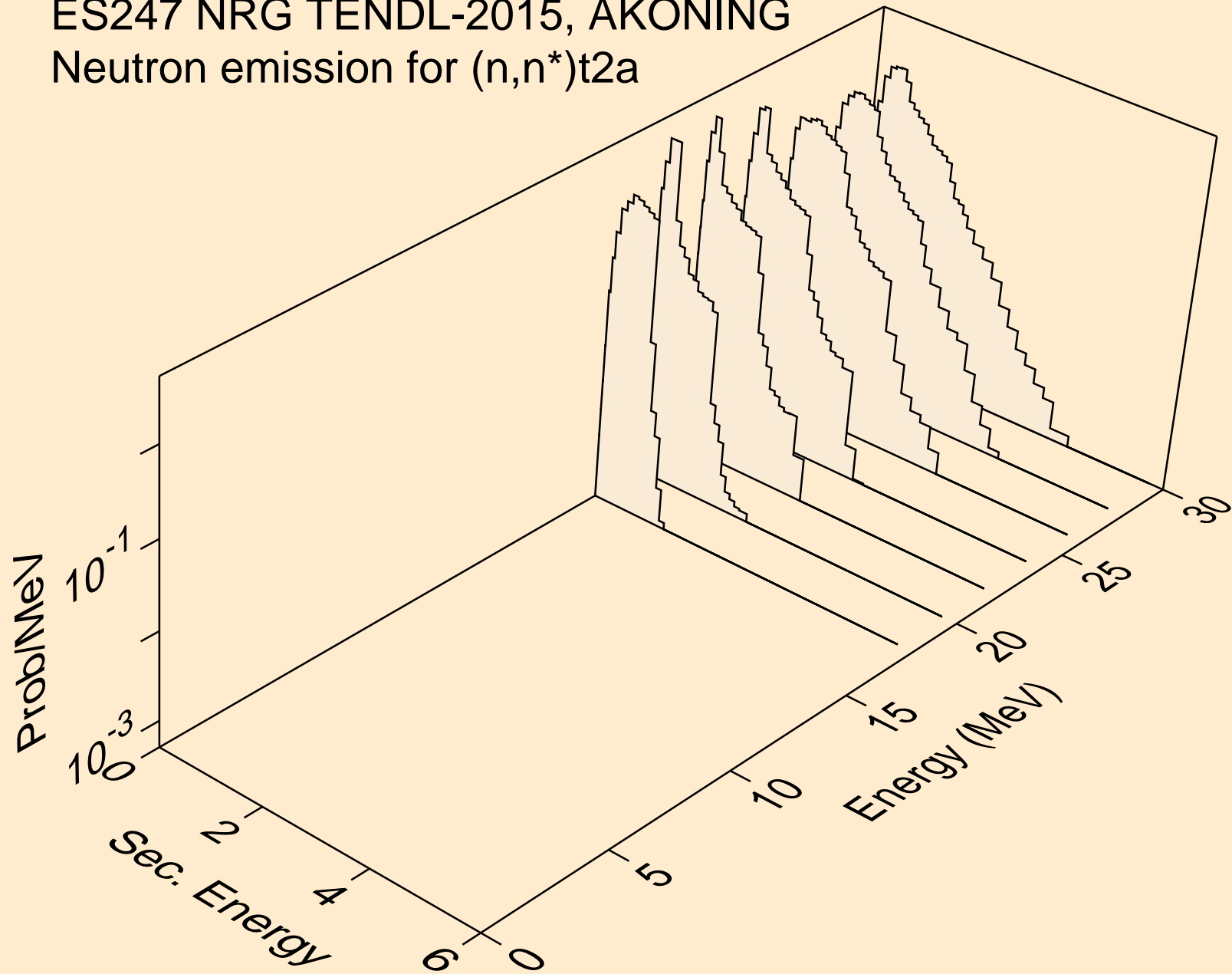
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)he3



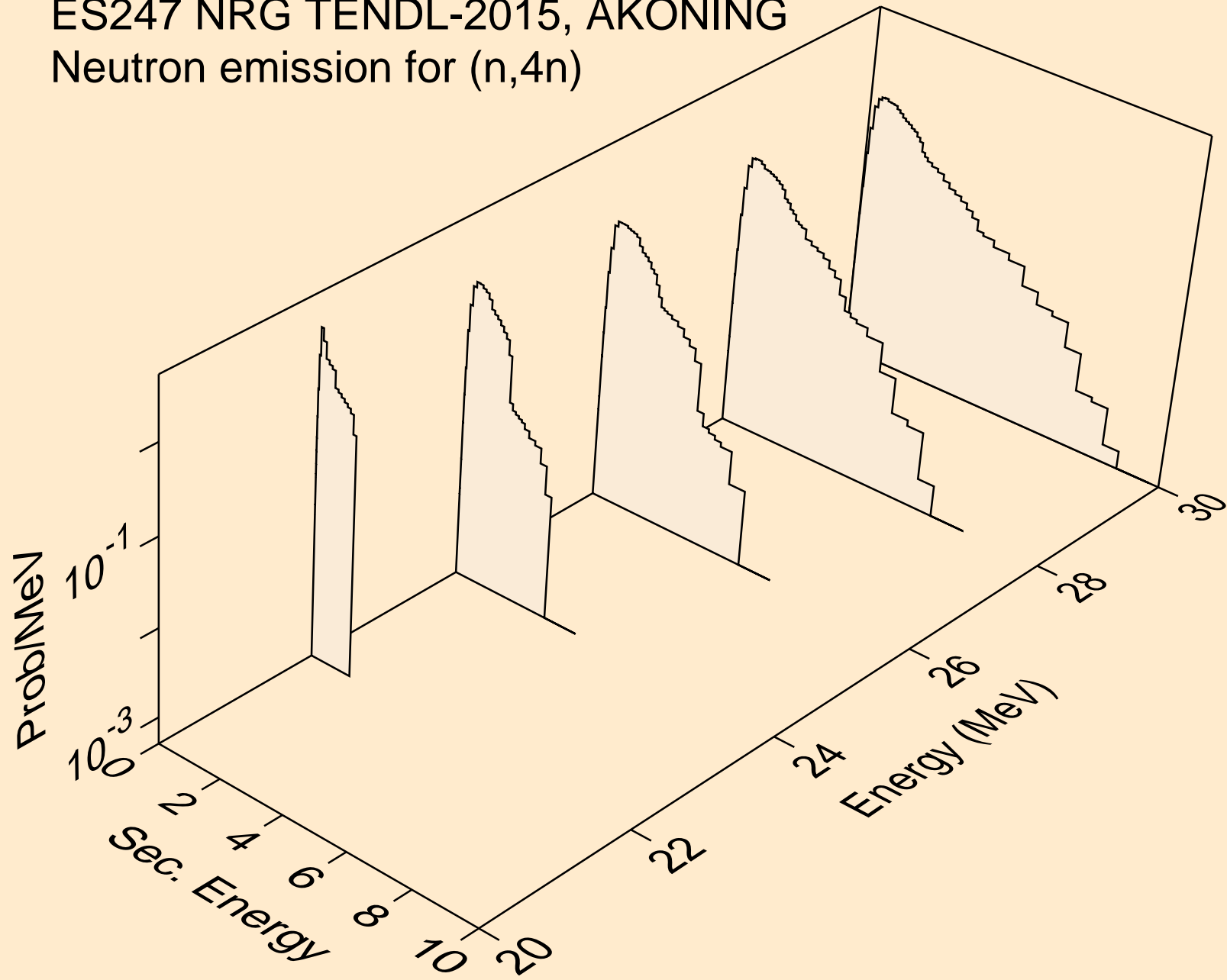
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d2a



ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t2a

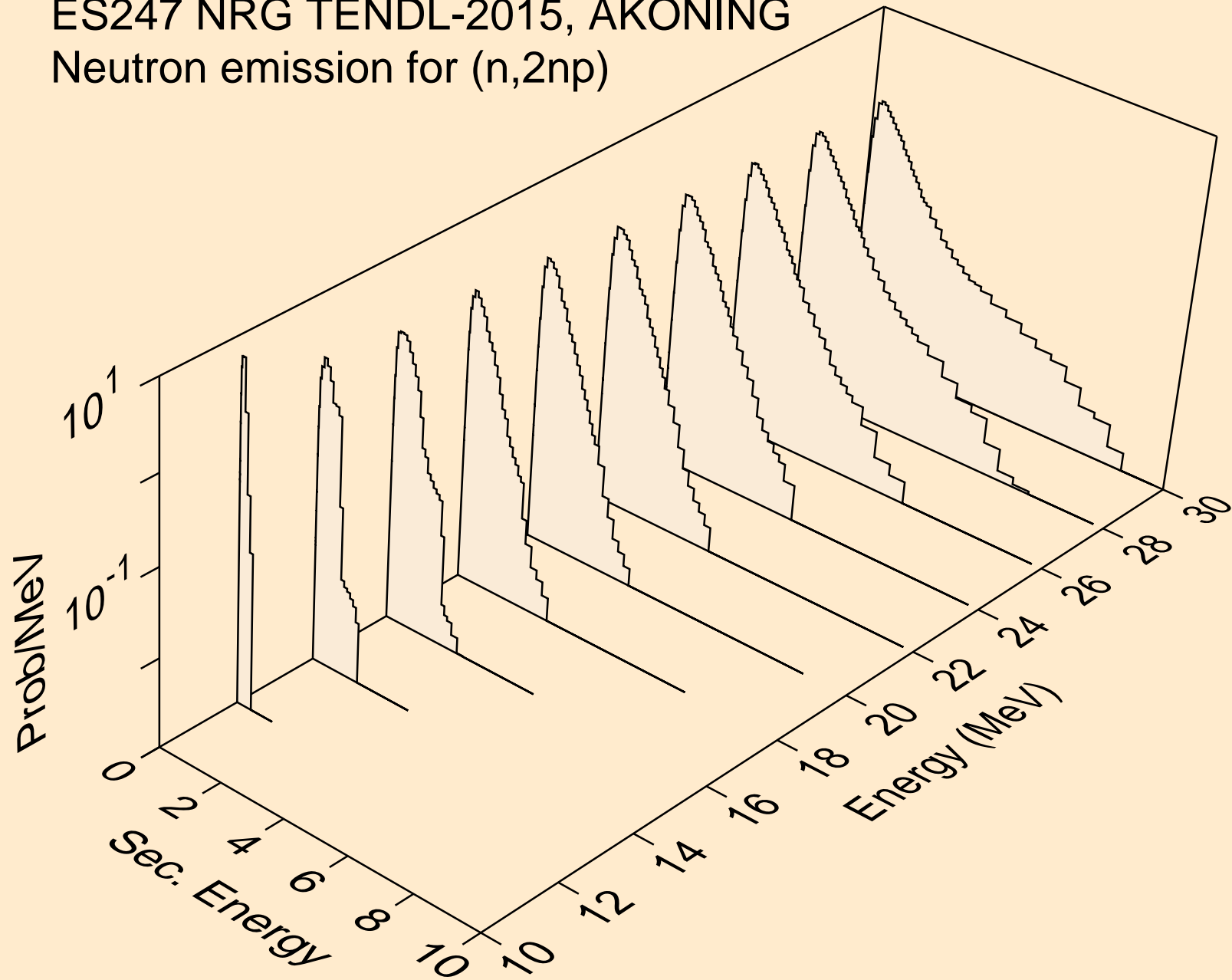


ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,4n)

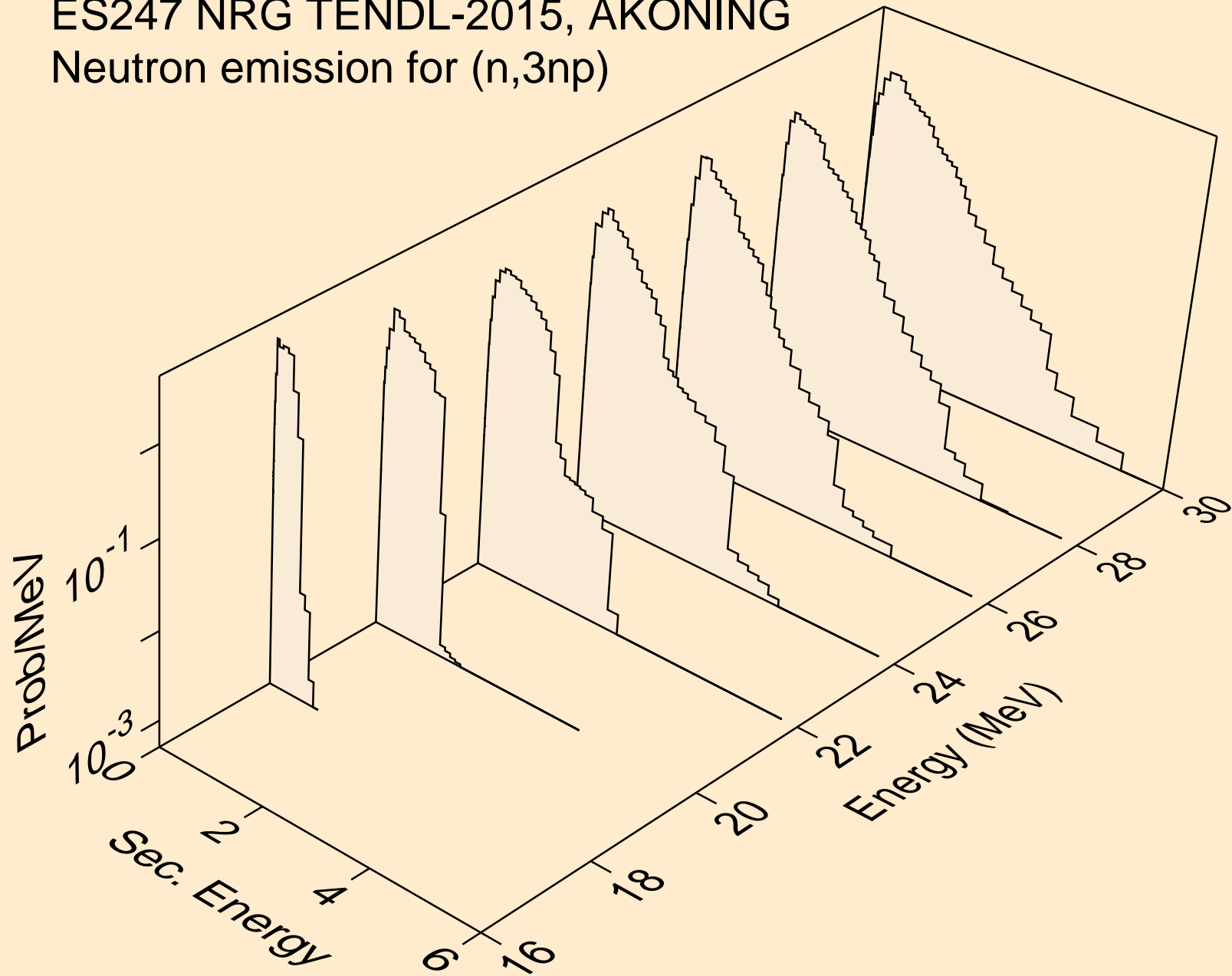




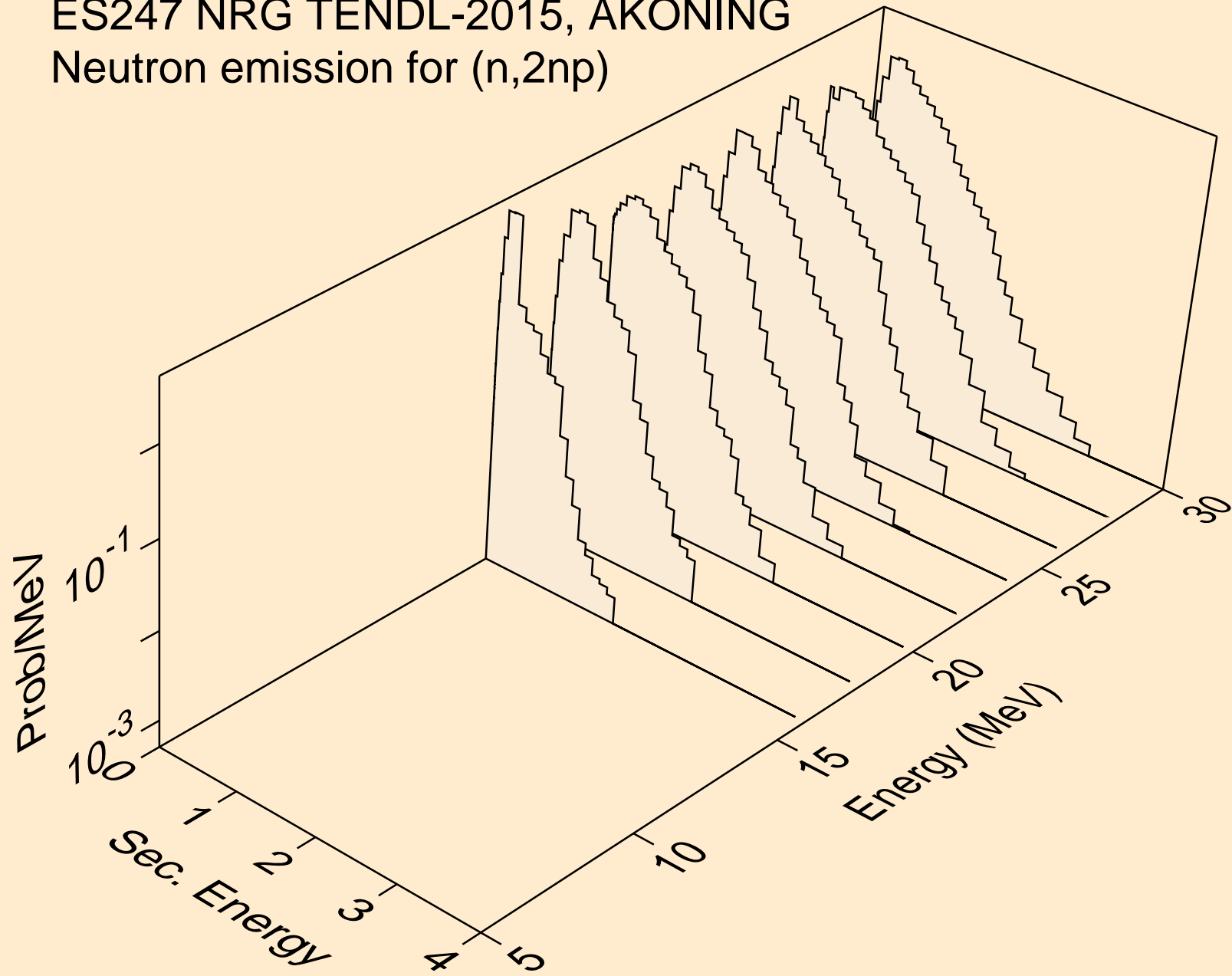
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



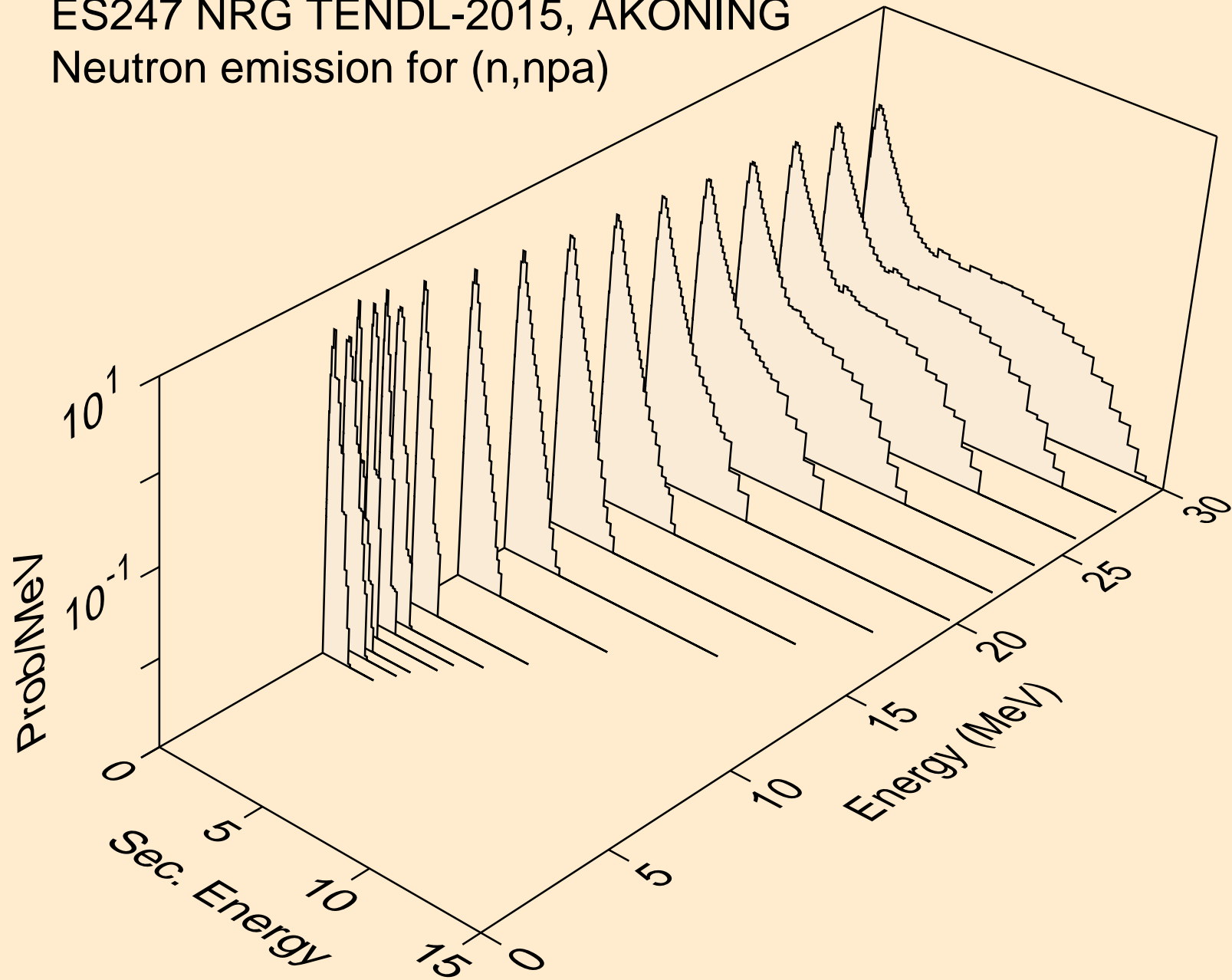
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,3np)



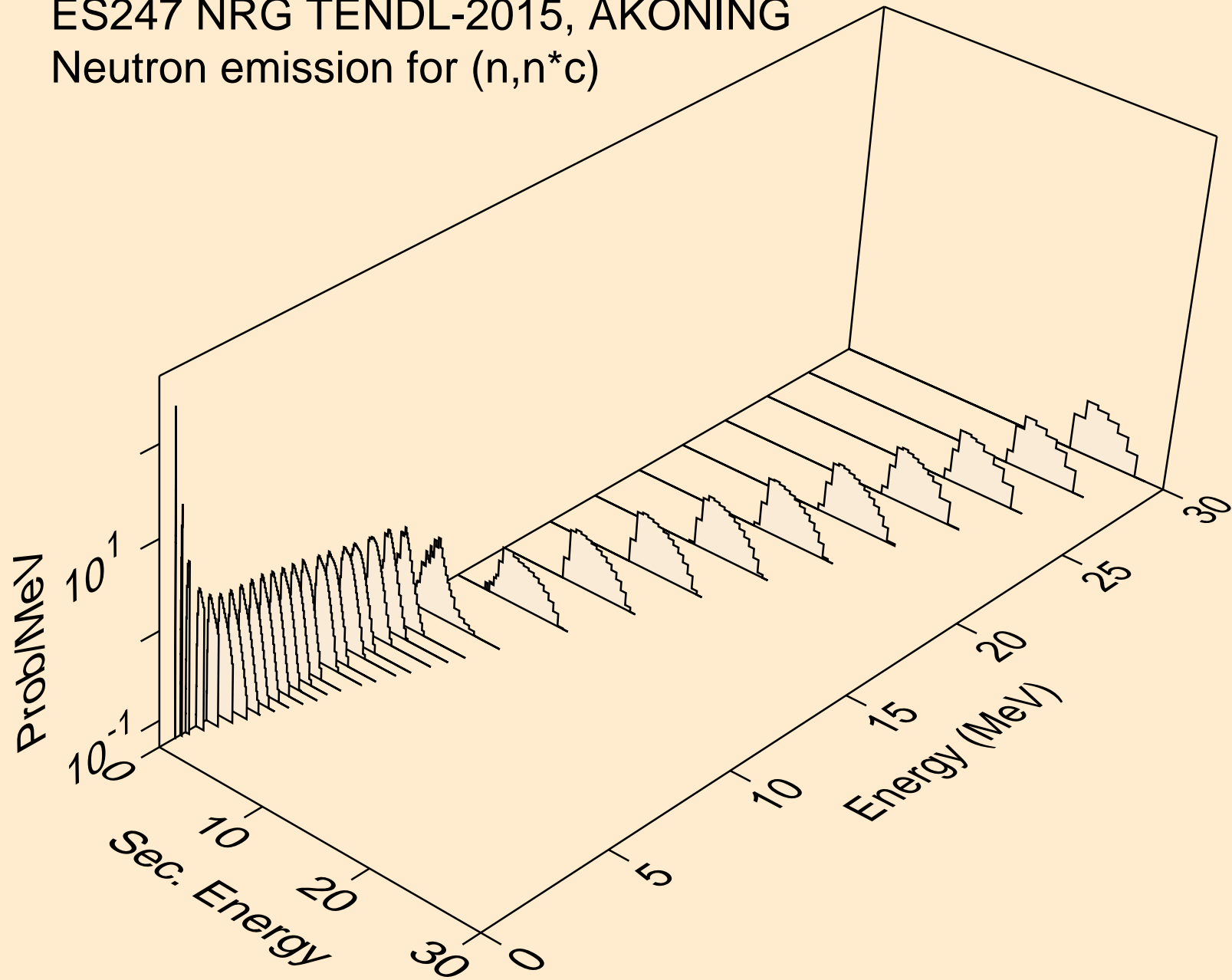
ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,npa)

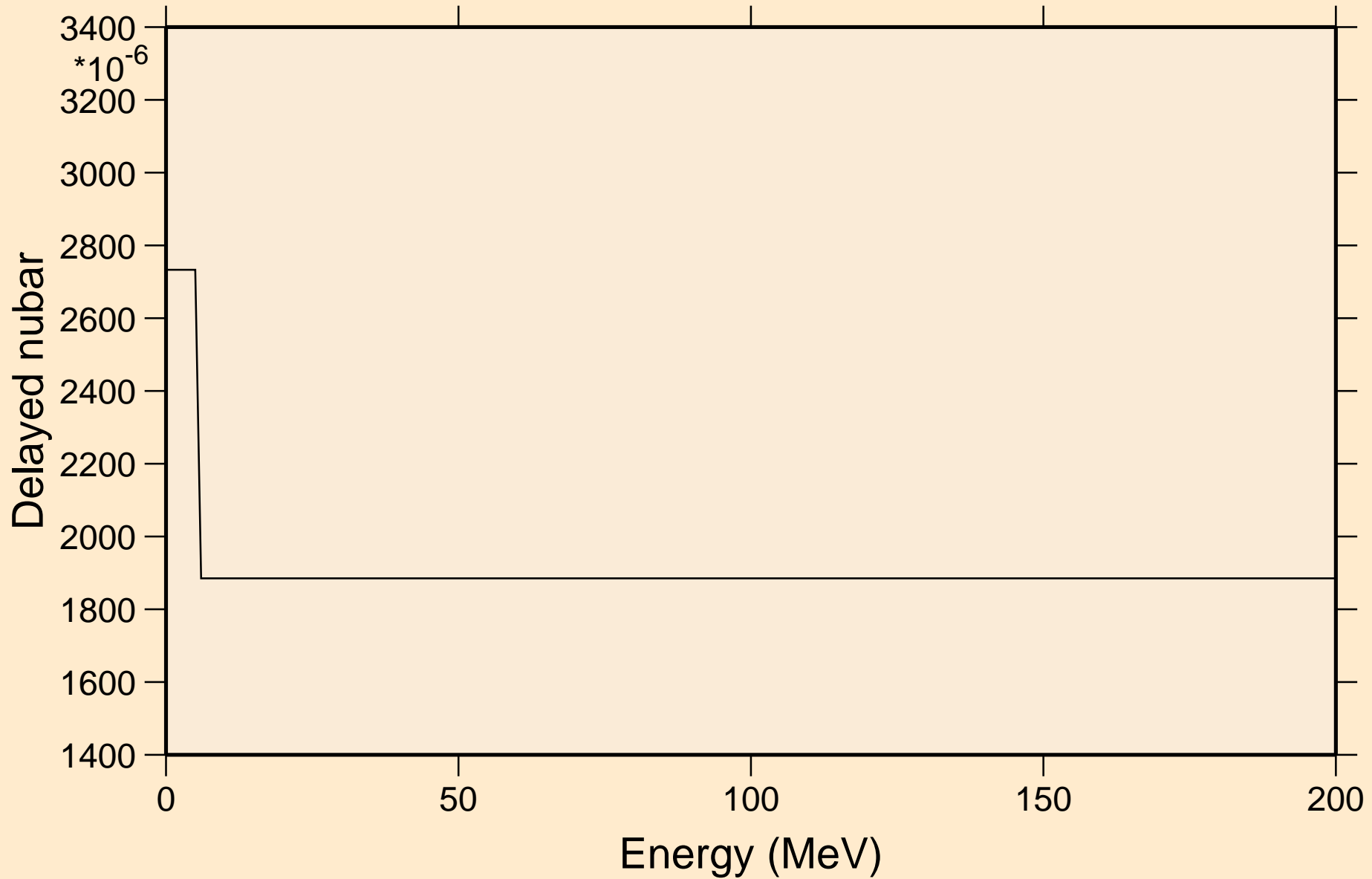


ES247 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*c)



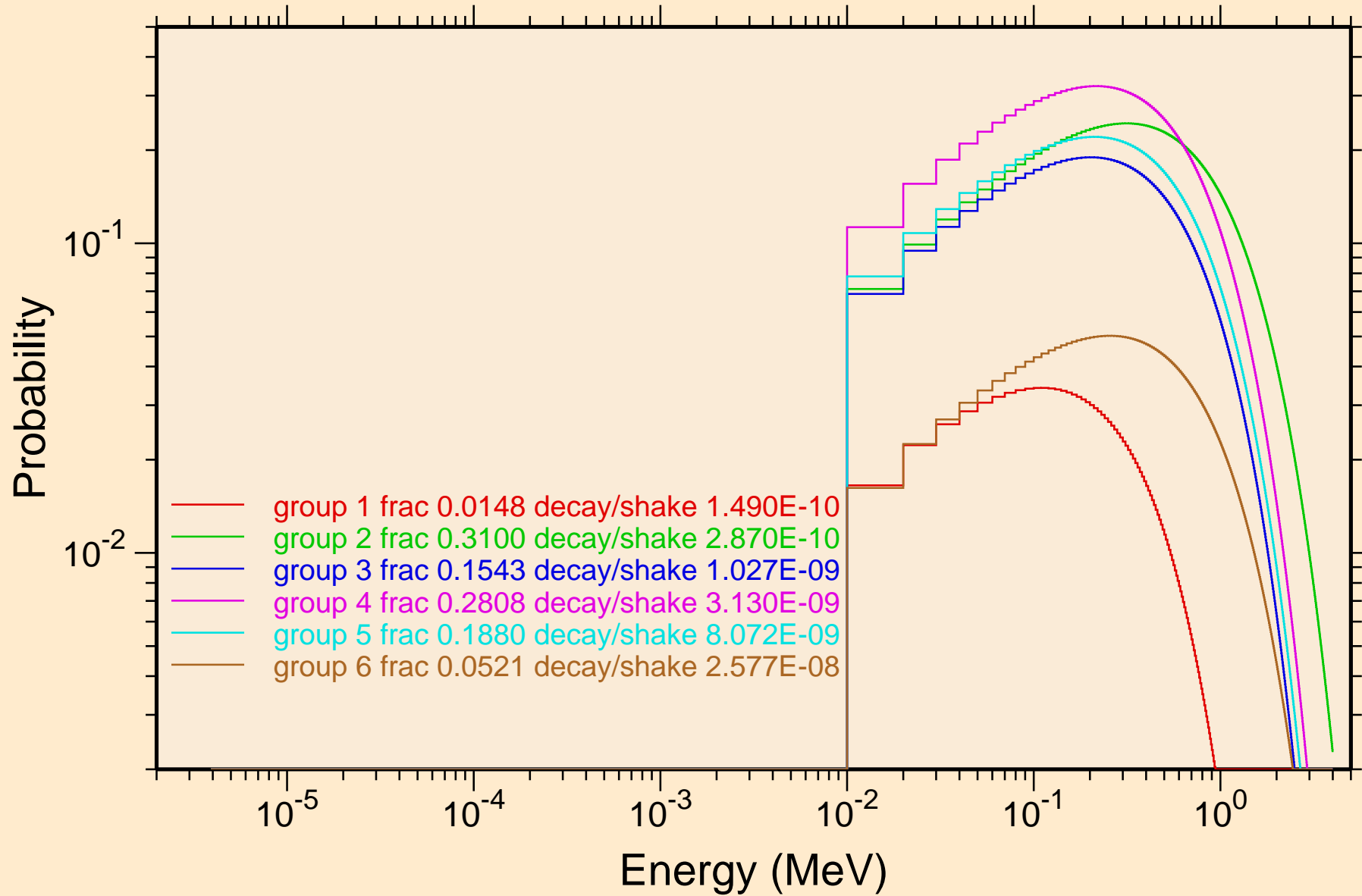
# ES247 NRG TENDL-2015, AKONING

Delayed nubar

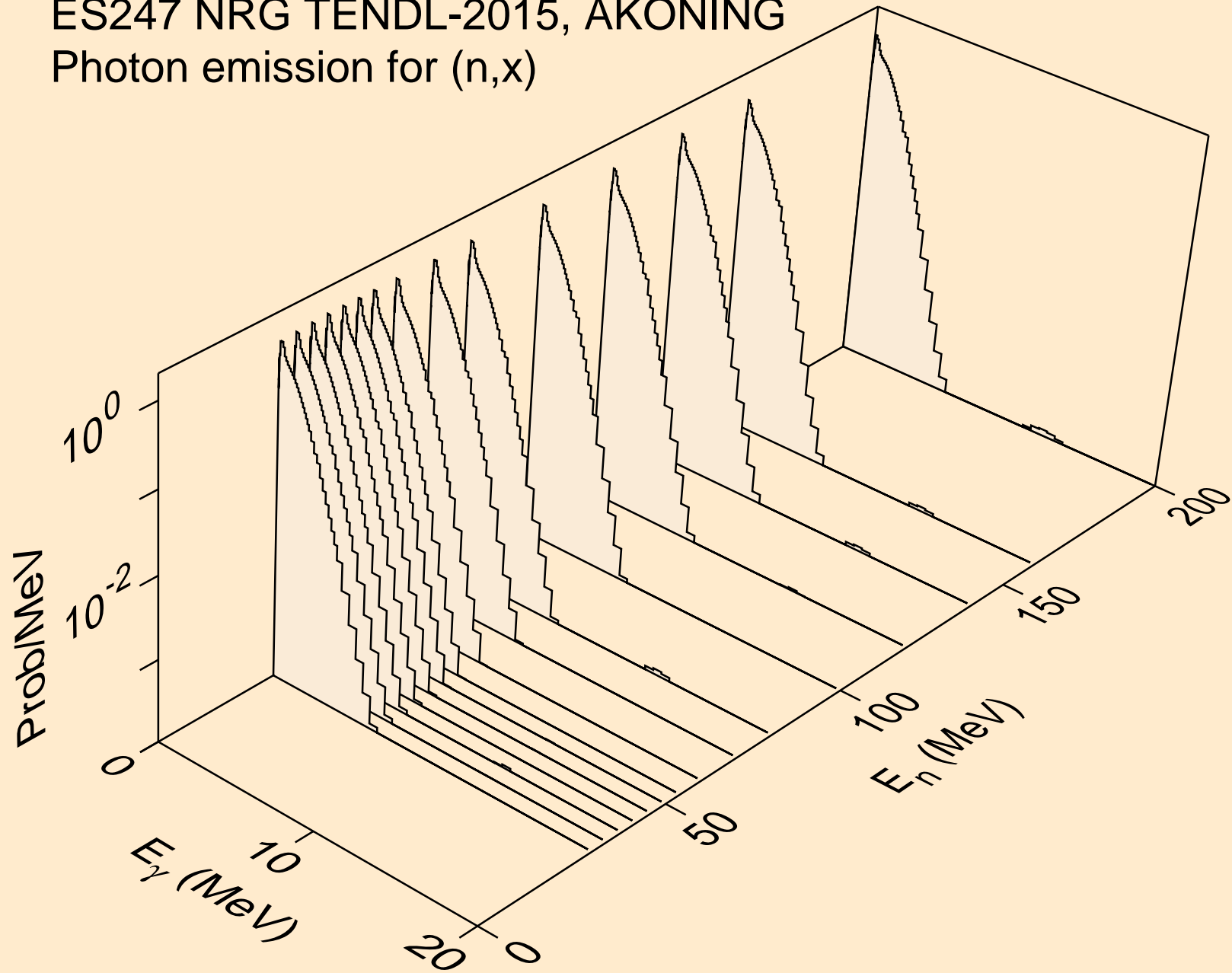


# ES247 NRG TENDL-2015, AKONING

## Delayed neutron spectra

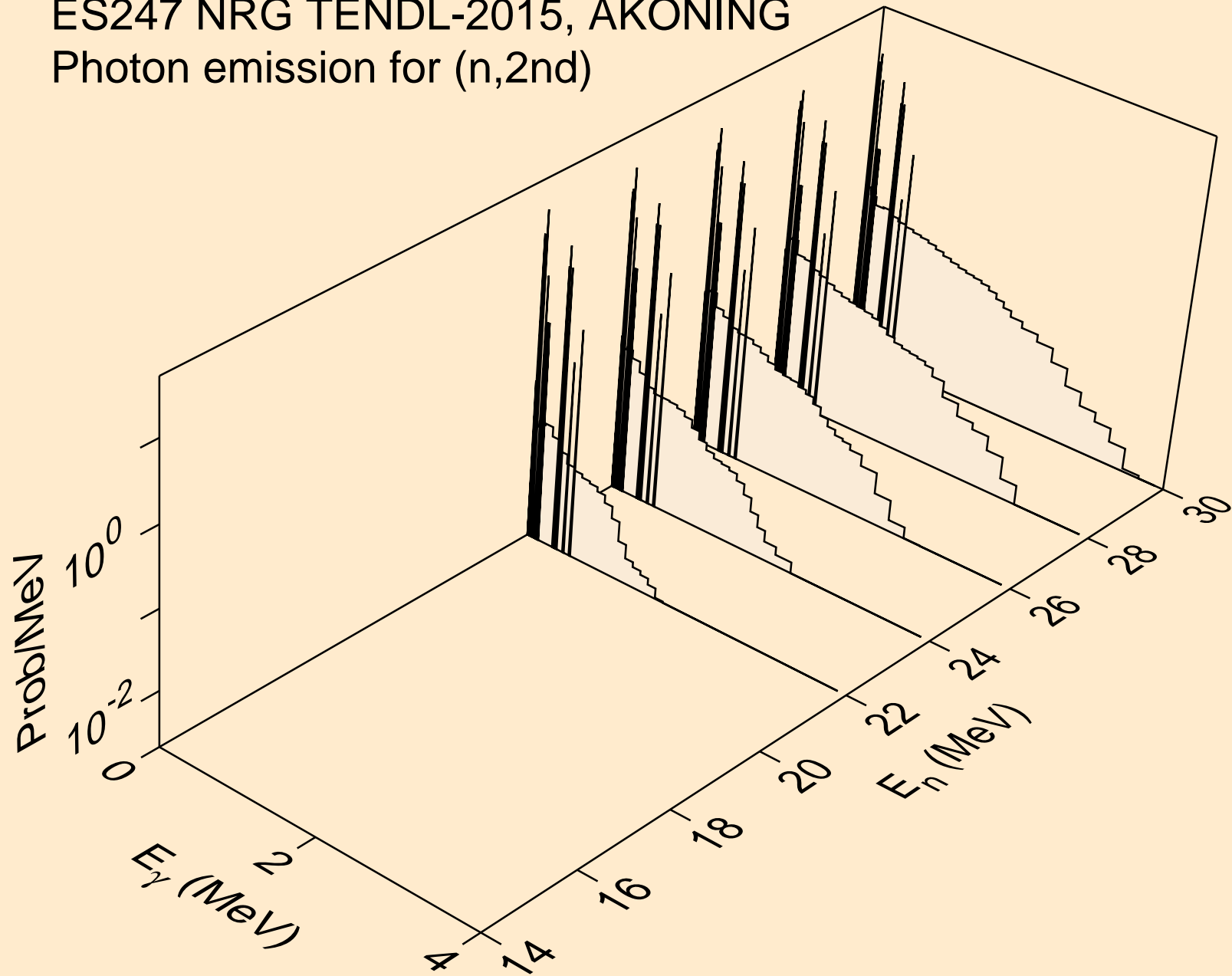


ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,x)

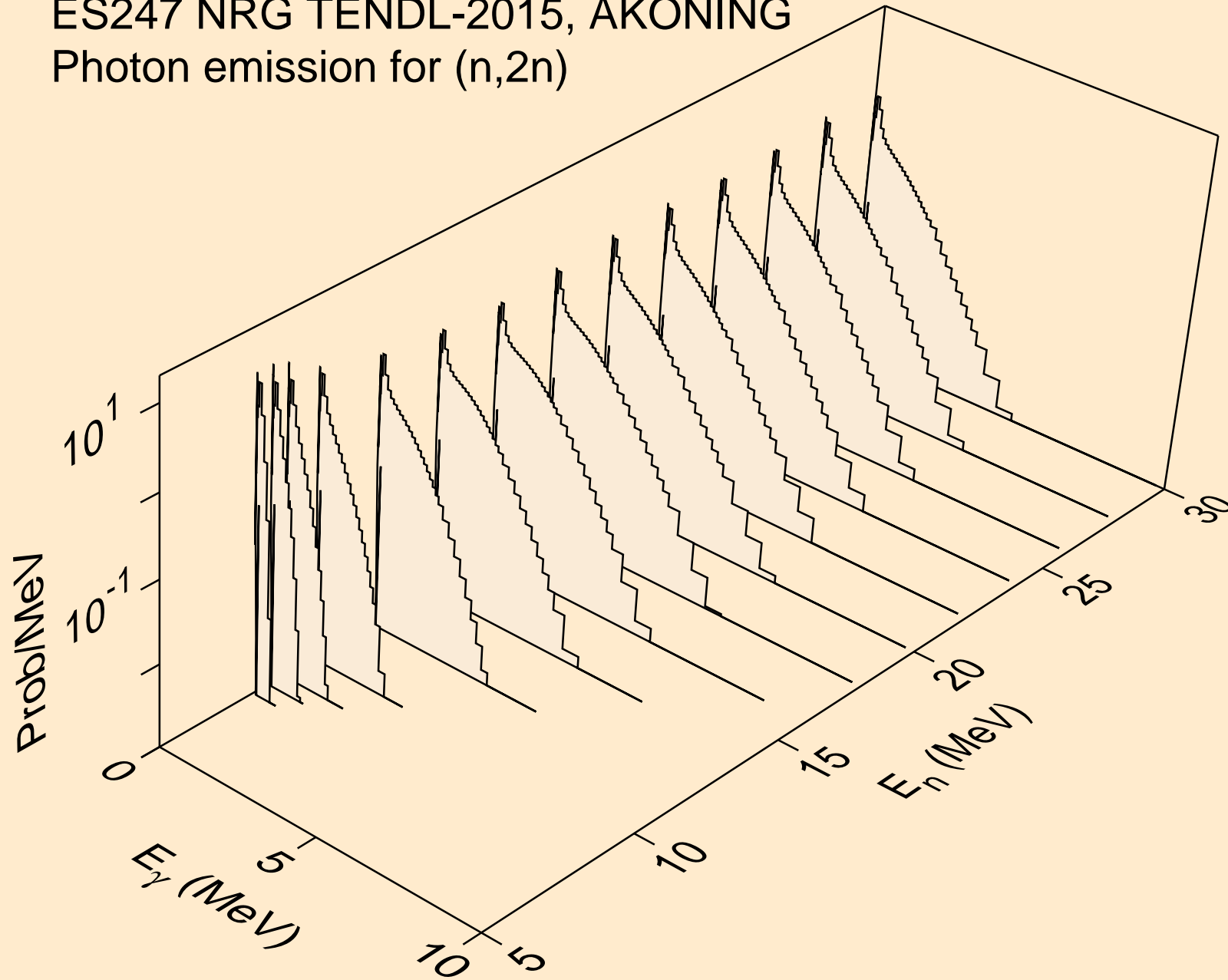




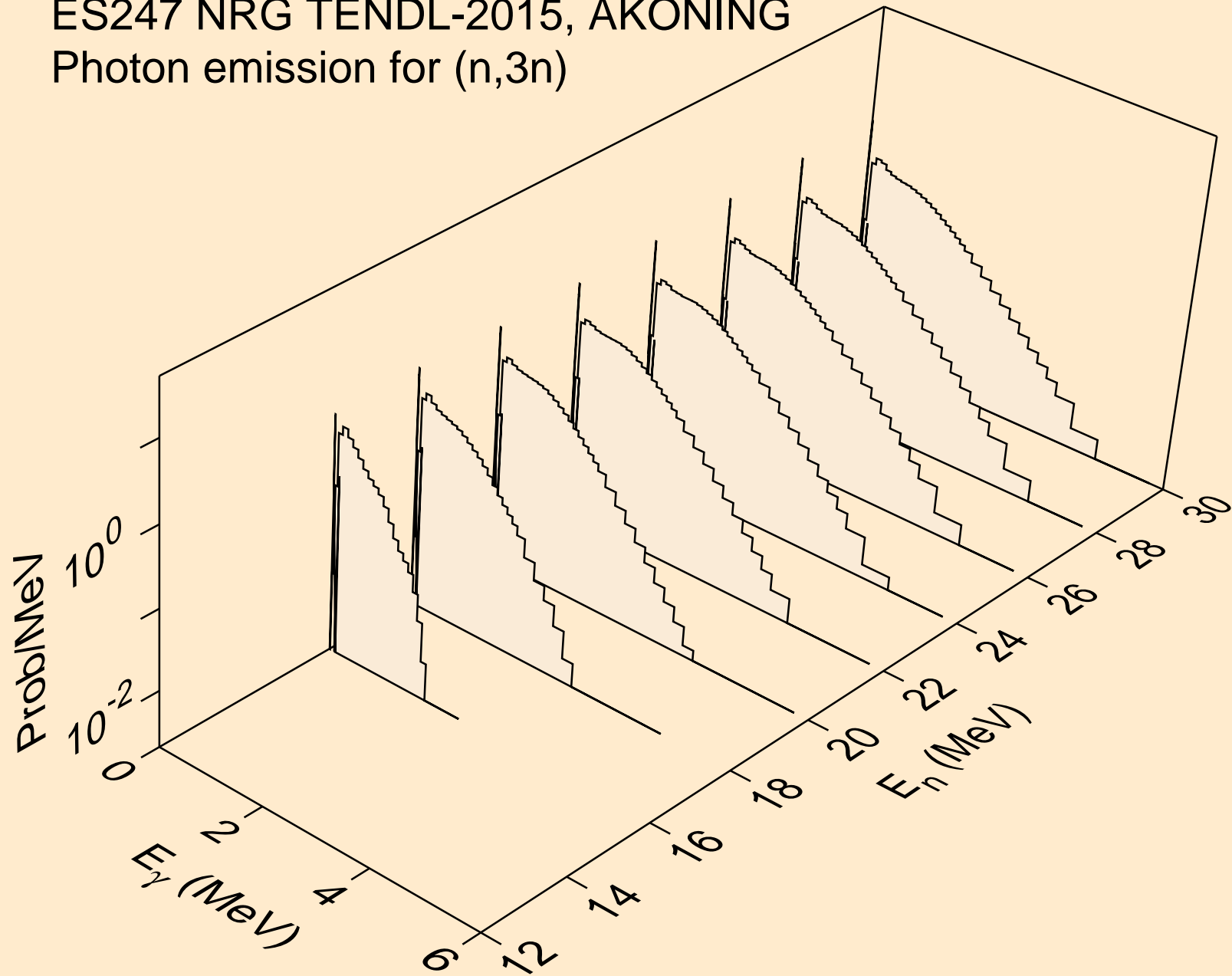
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,2nd)



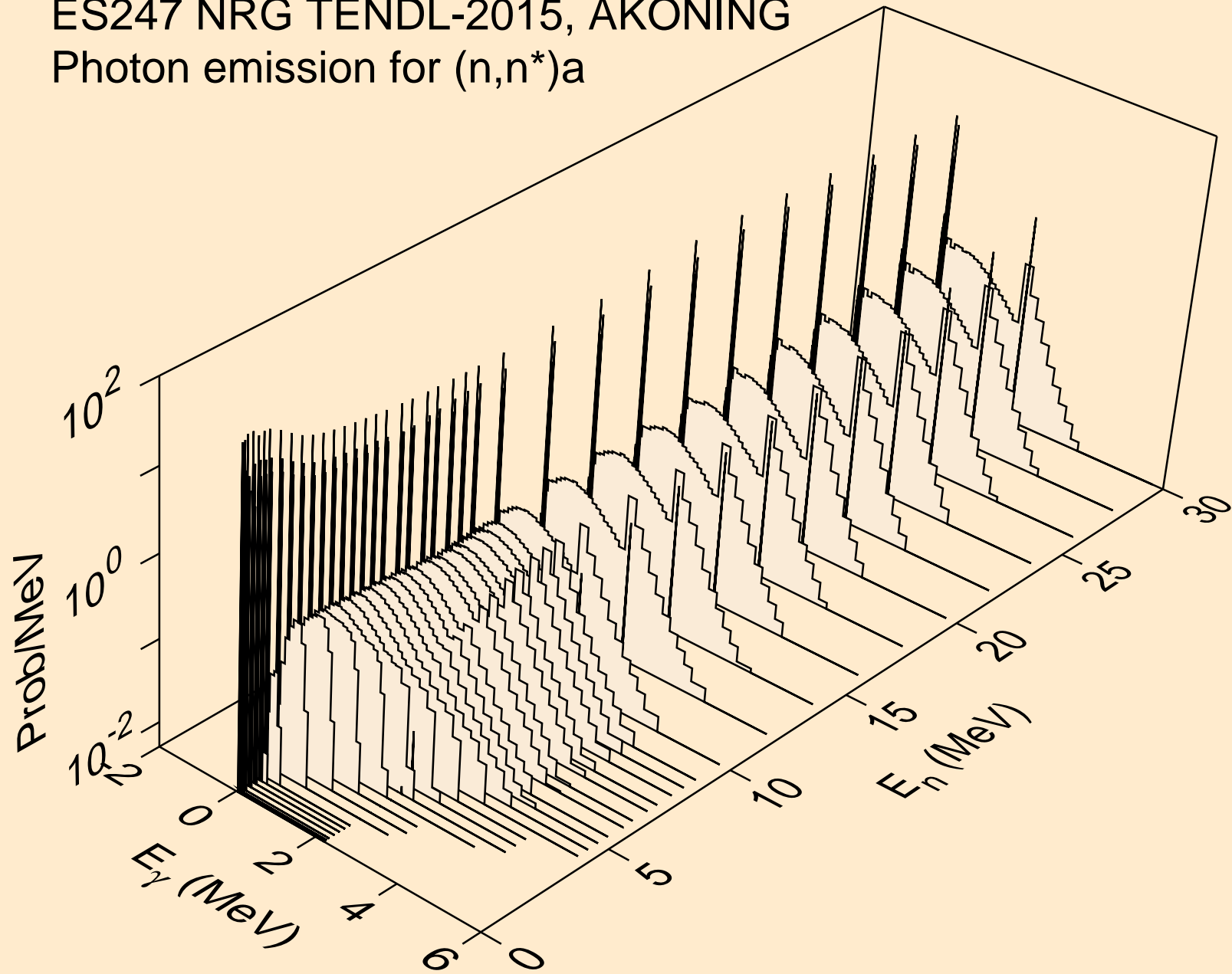
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)



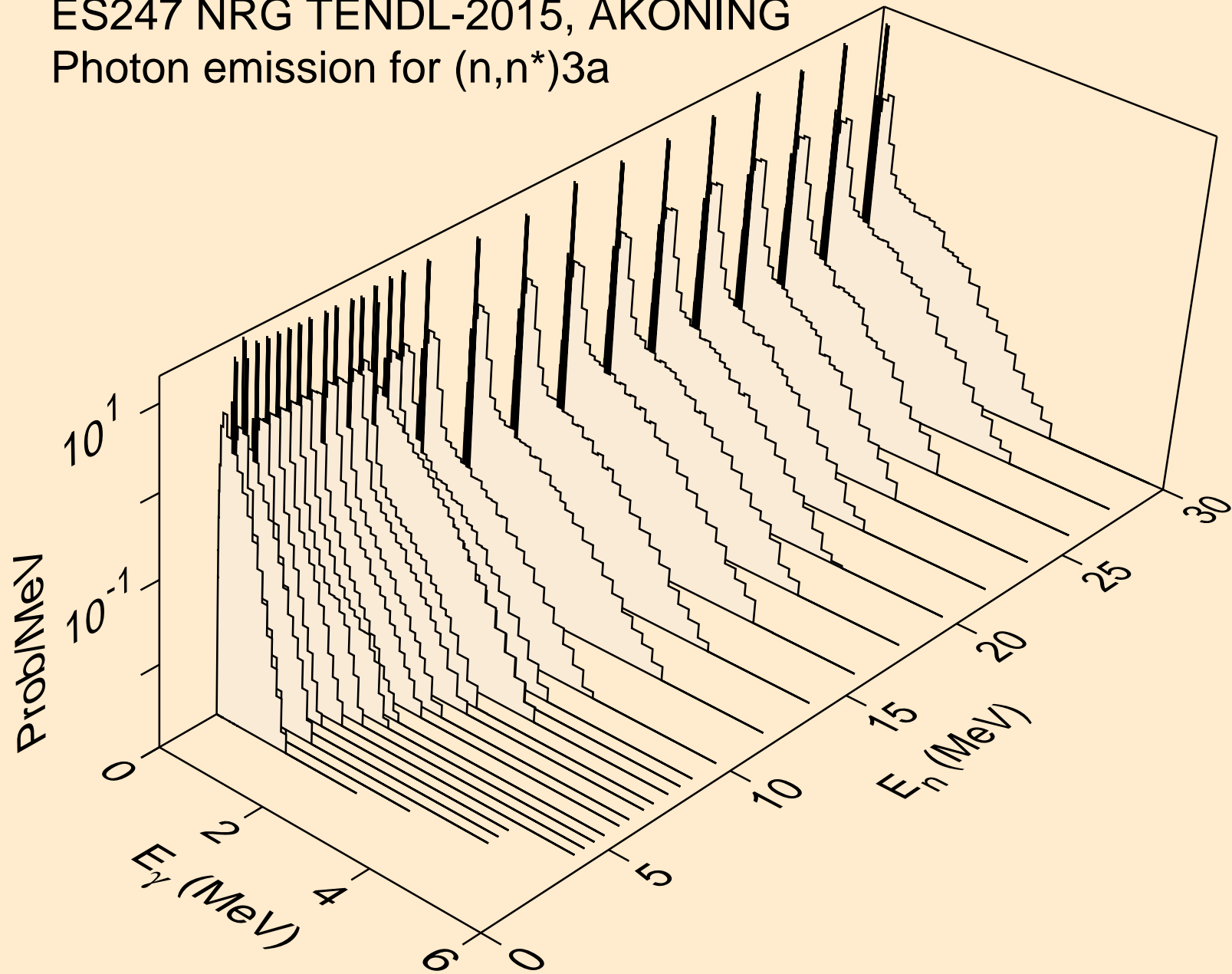
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)



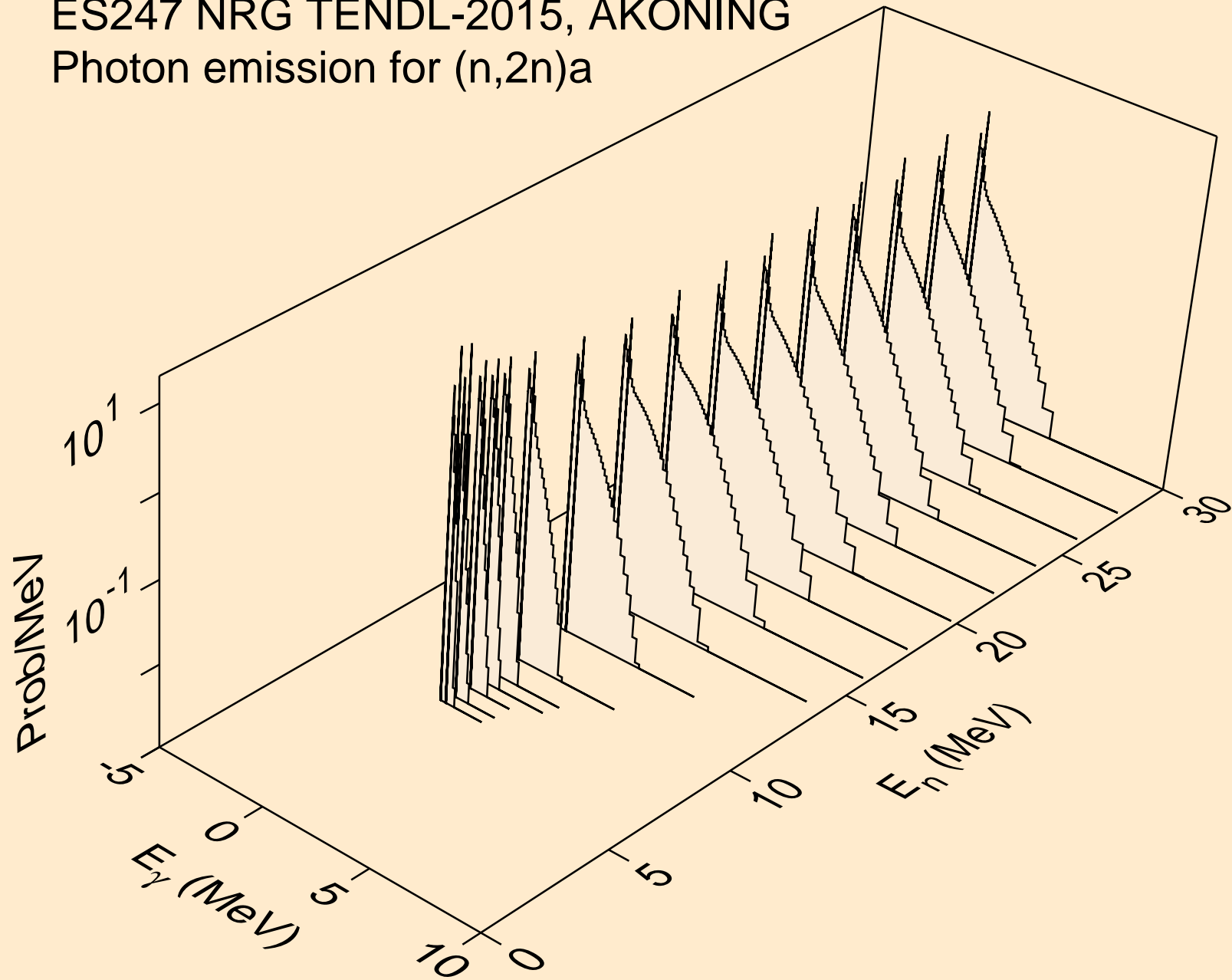
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)a



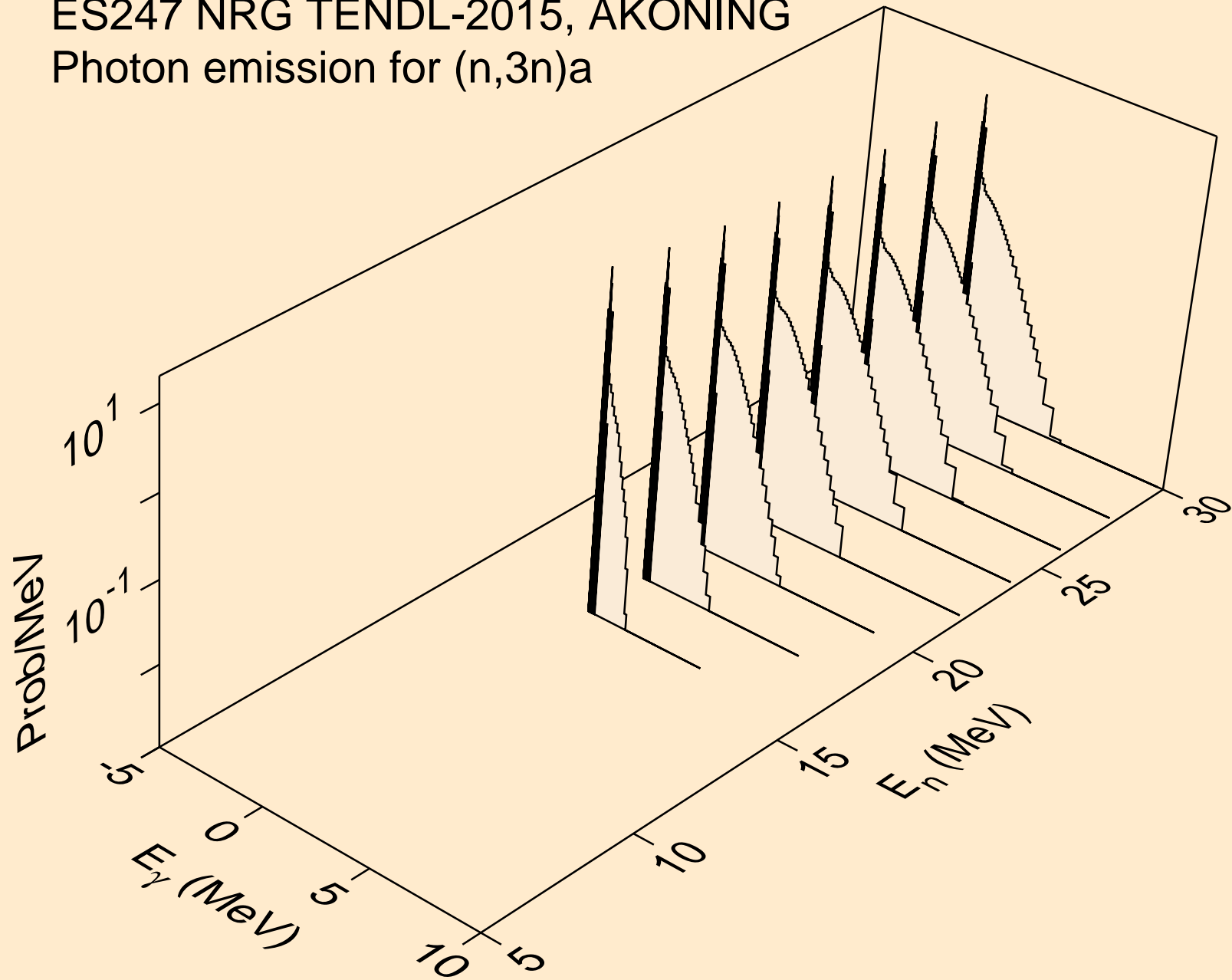
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)3a



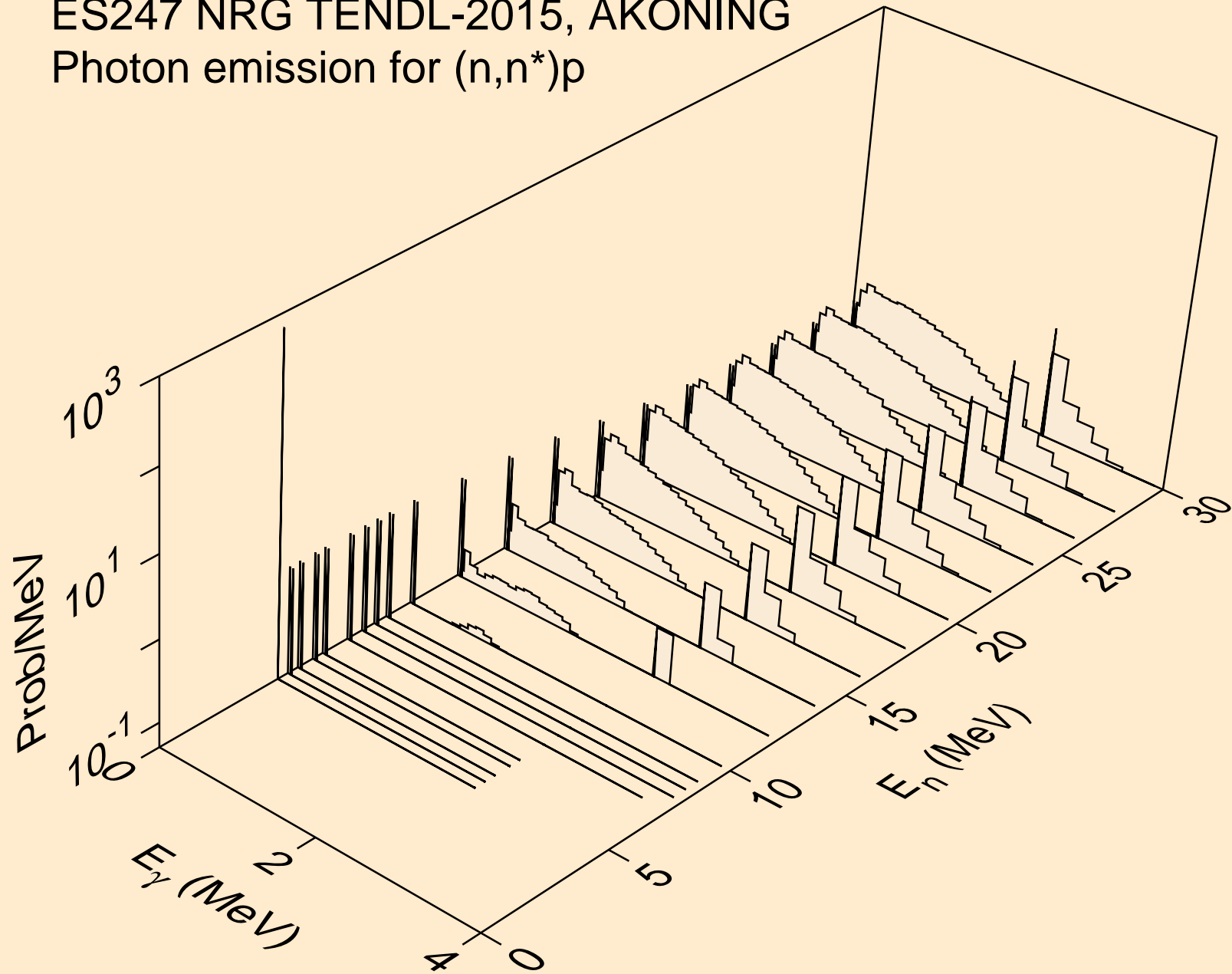
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)a



ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)a

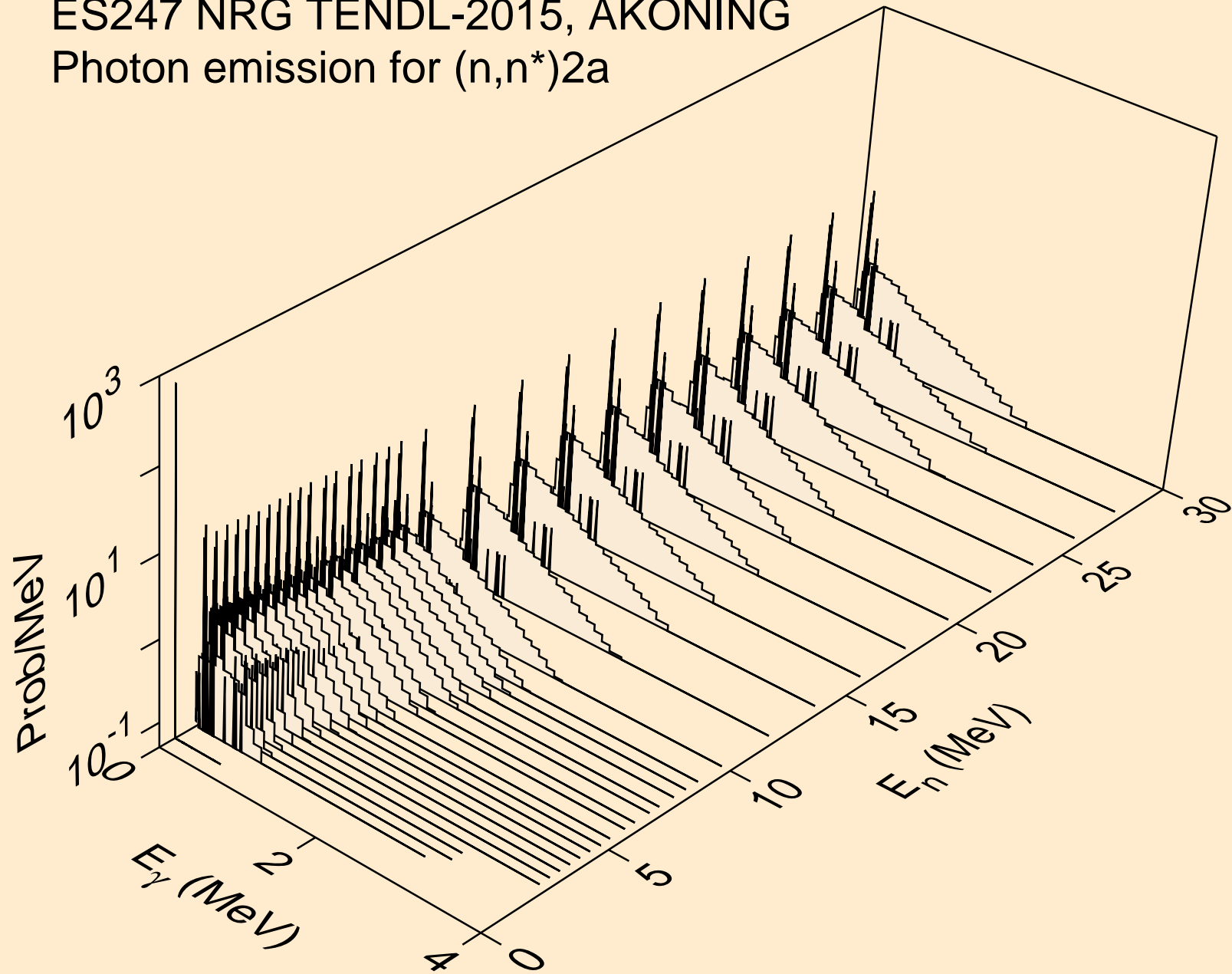


ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)p

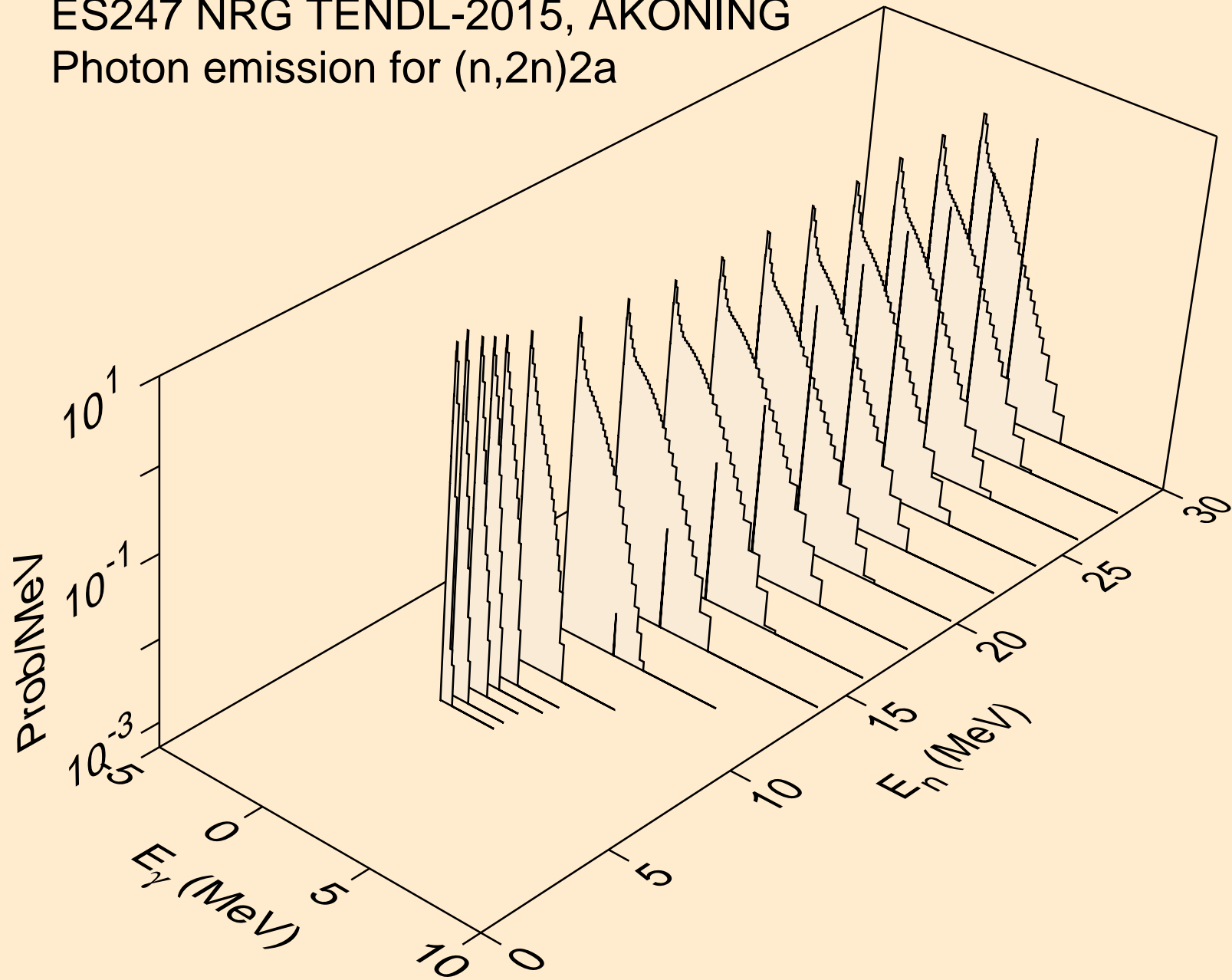




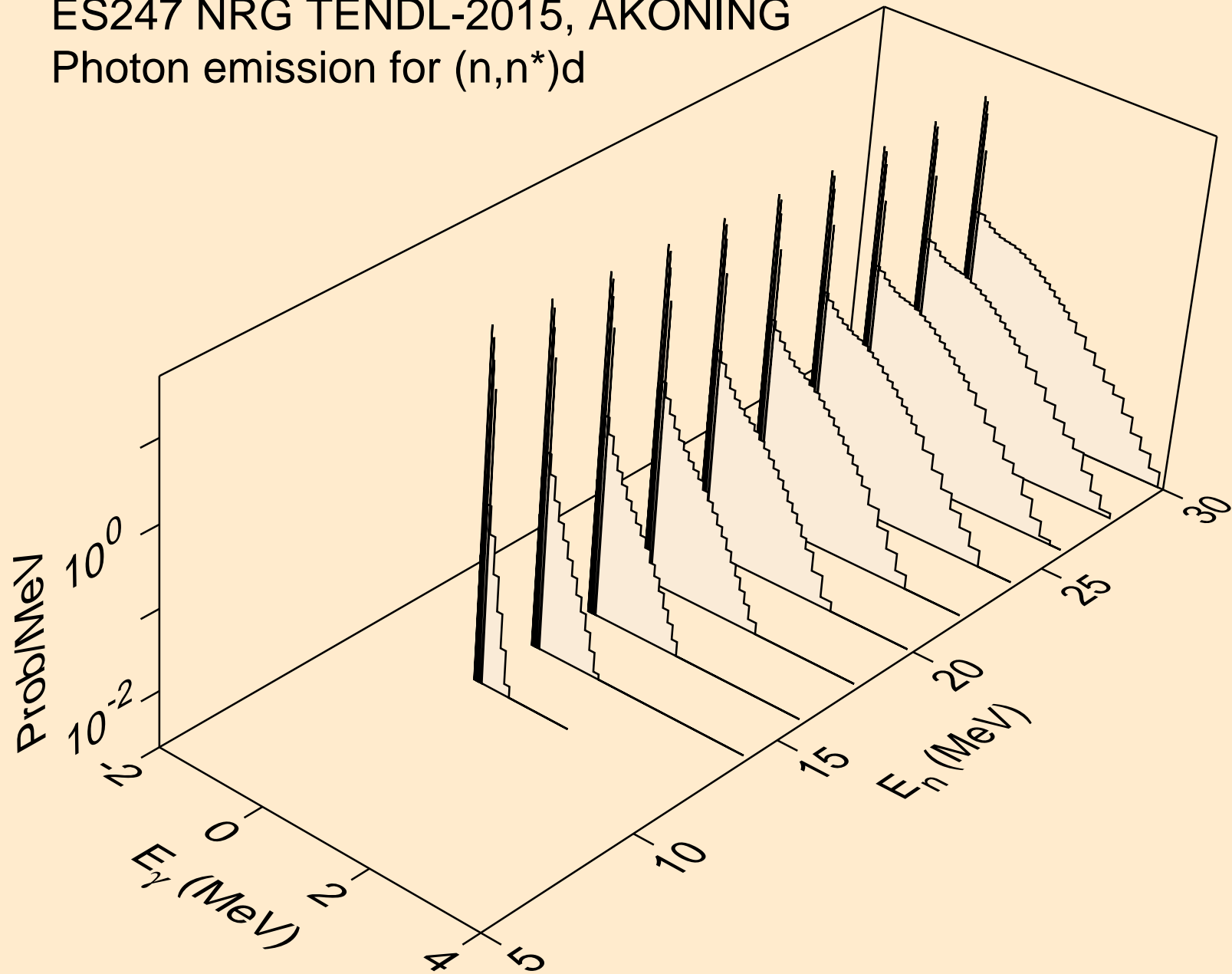
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)2a



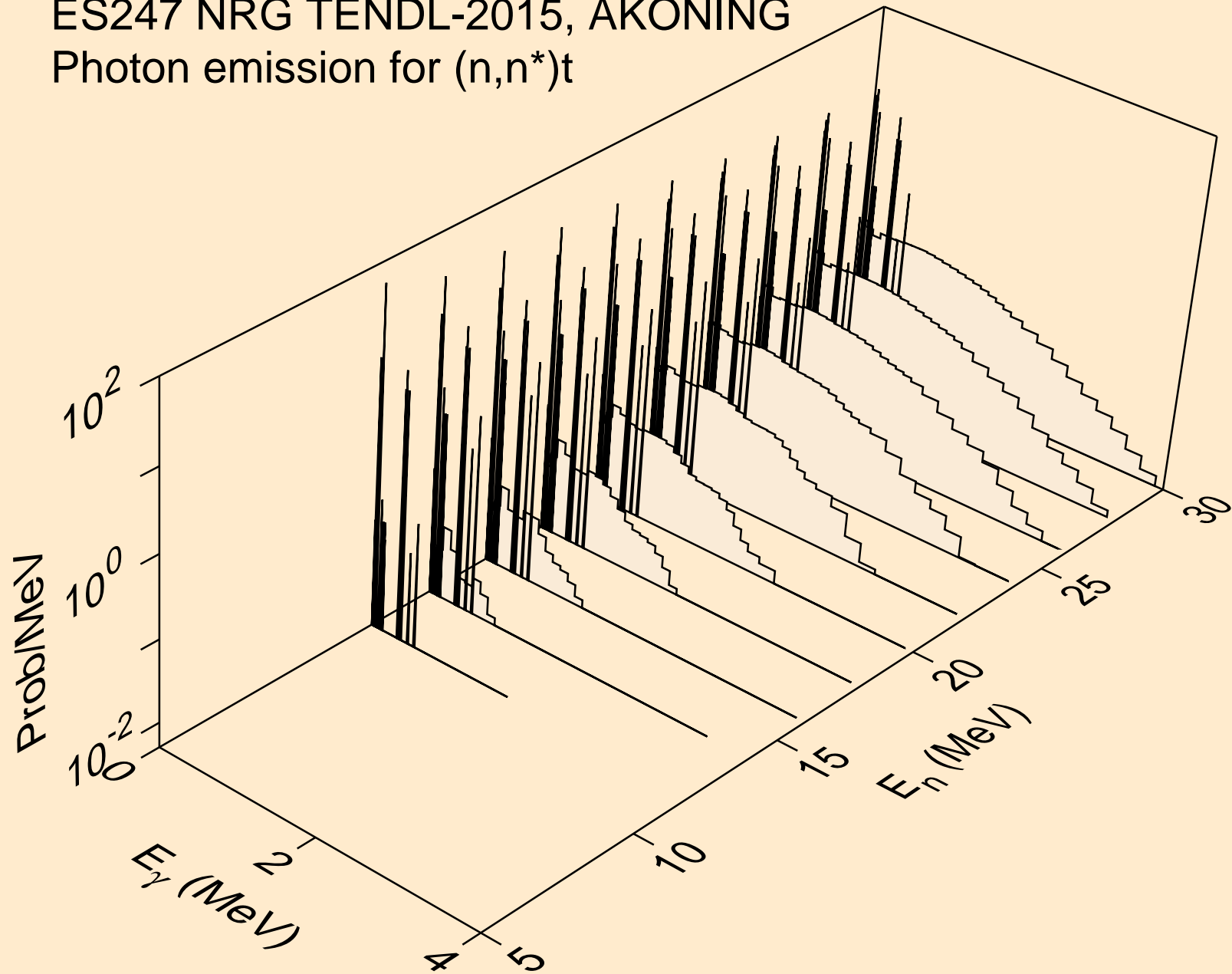
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)2a



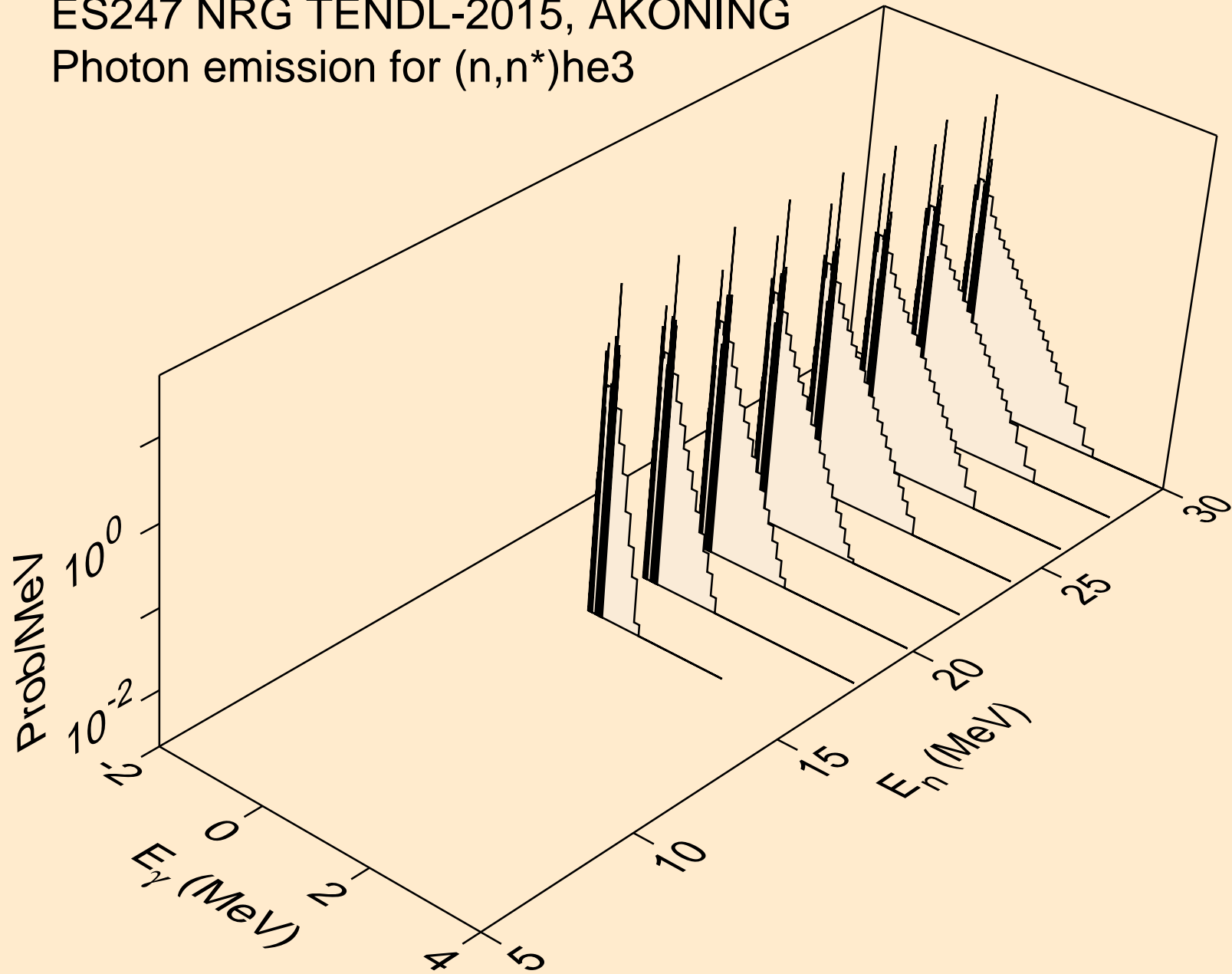
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d



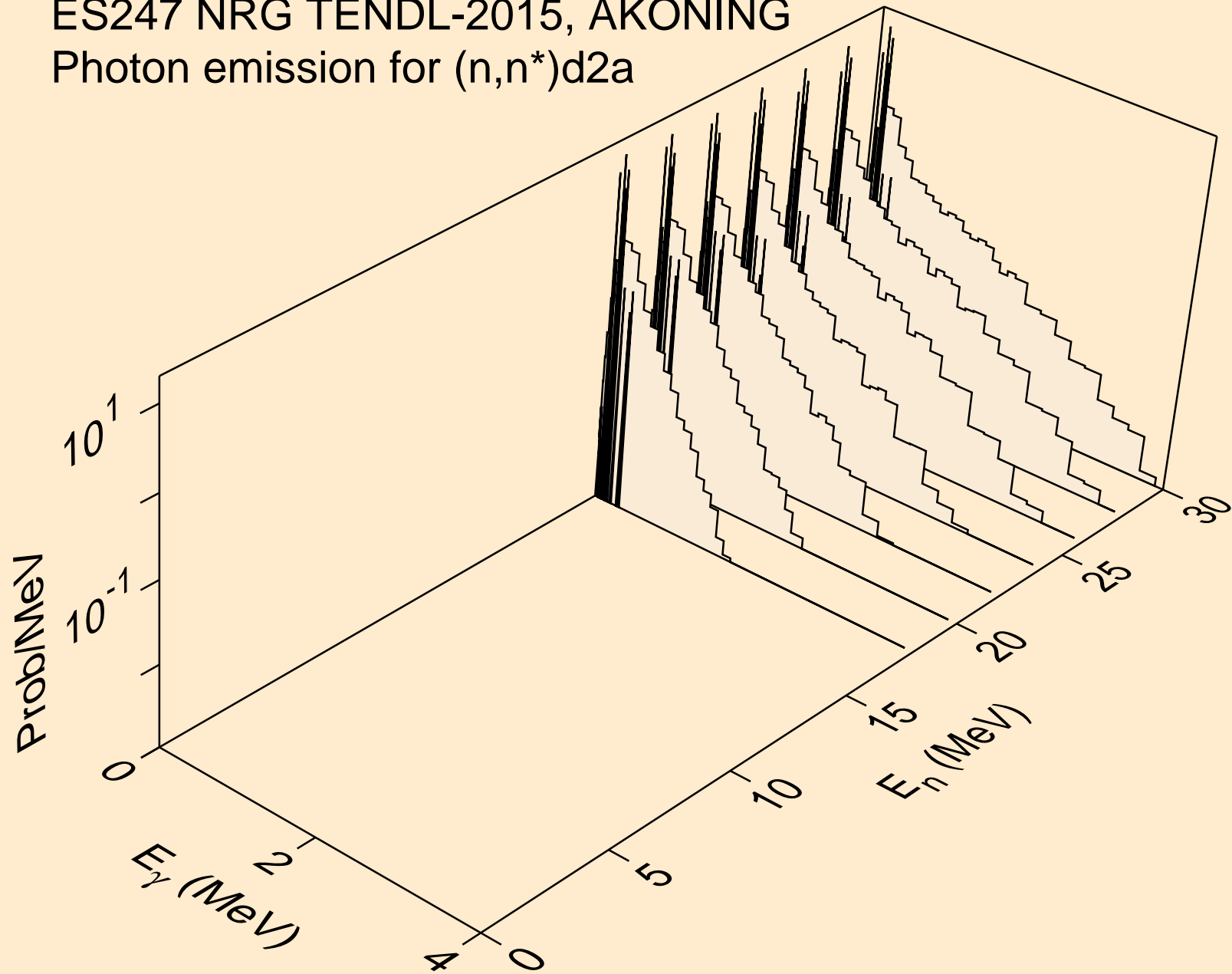
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t



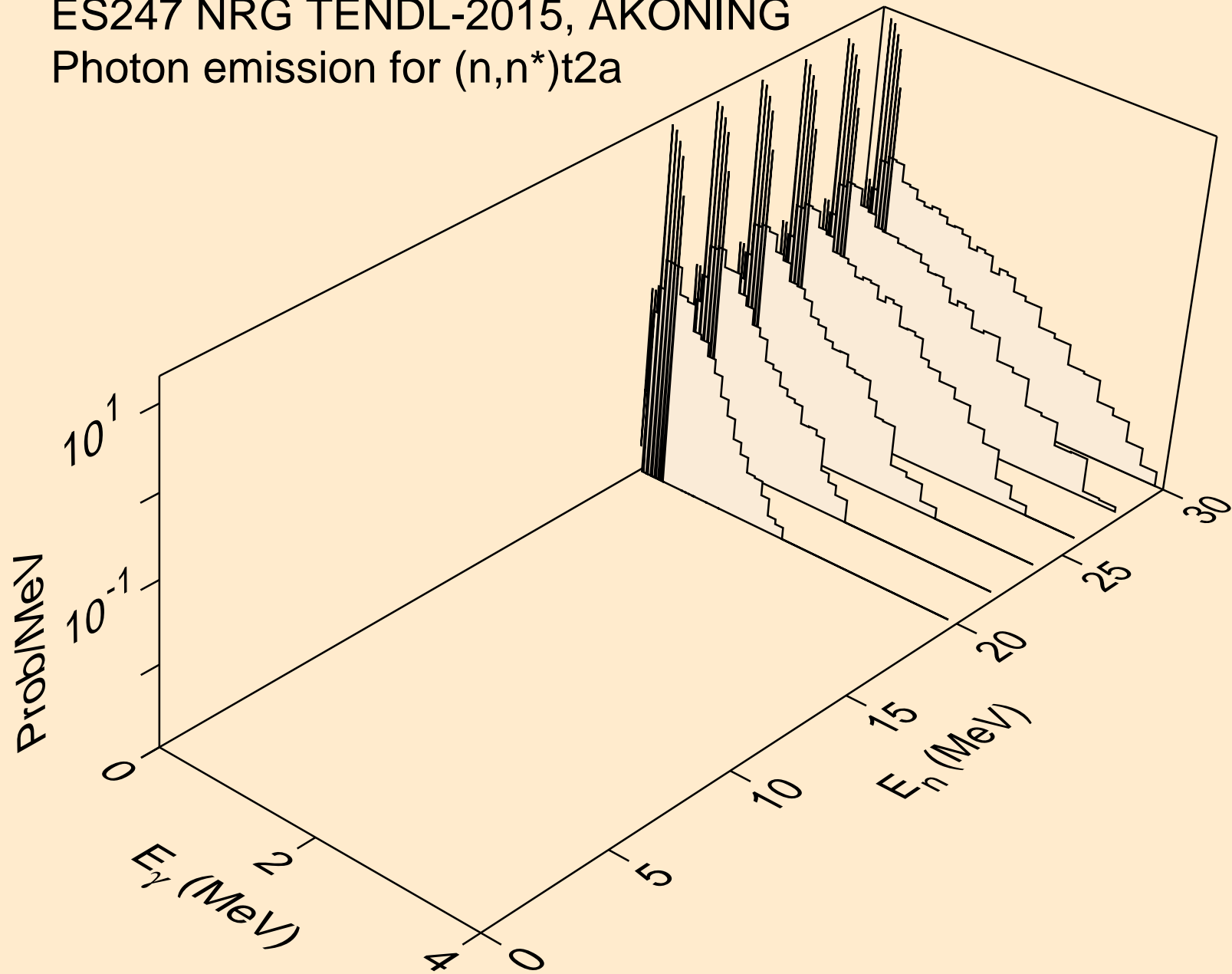
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)he3



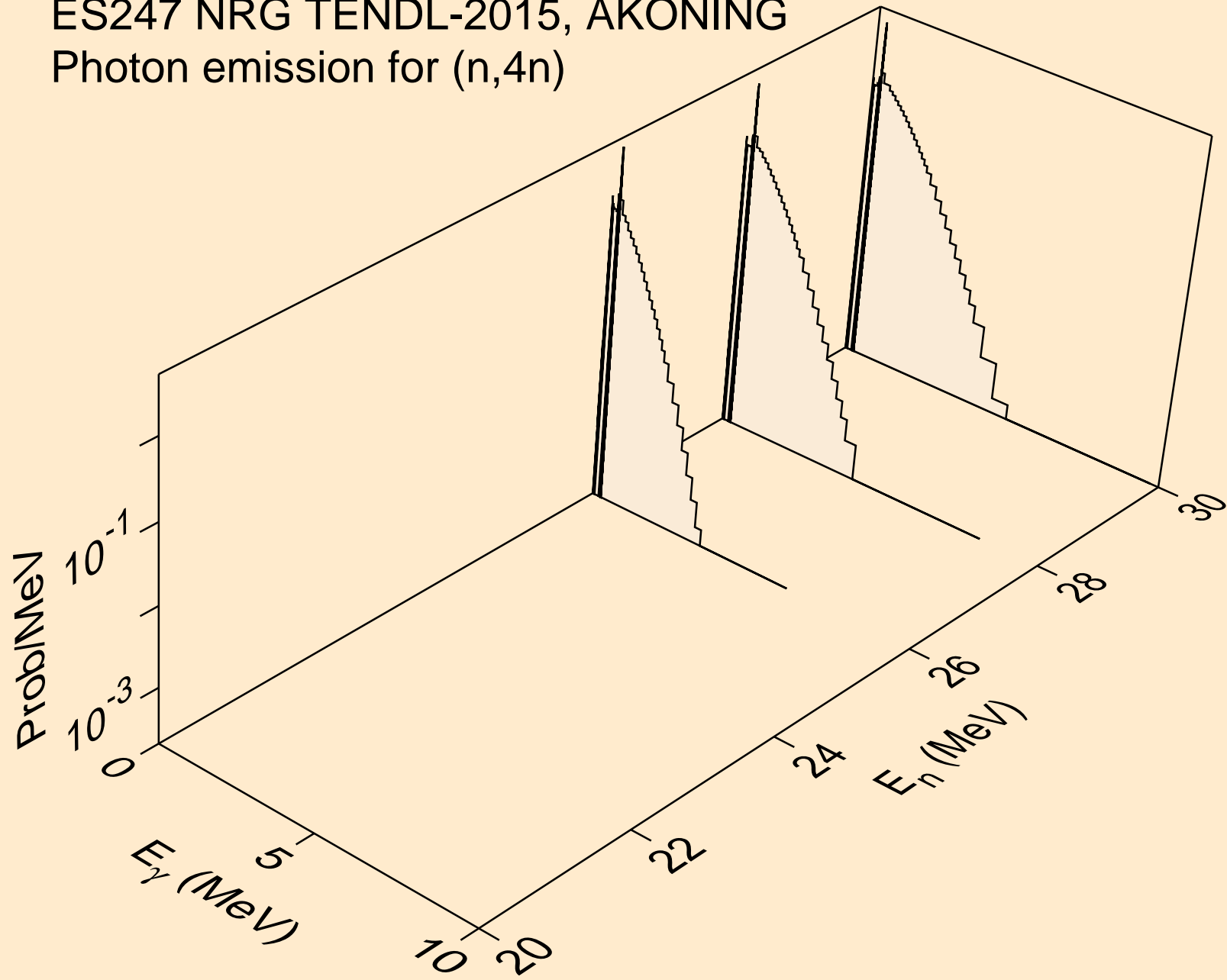
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d2a



ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t2a

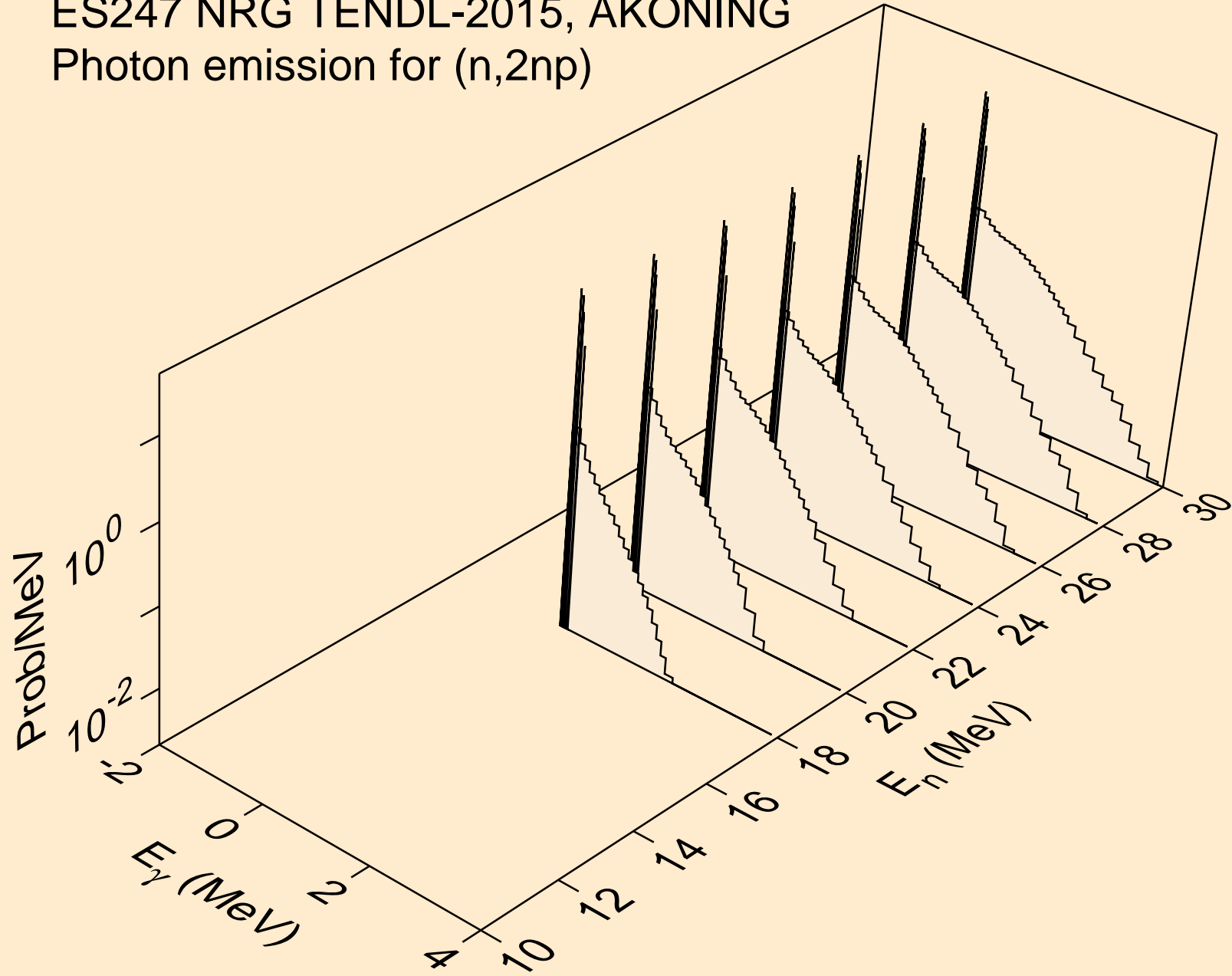


ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,4n)

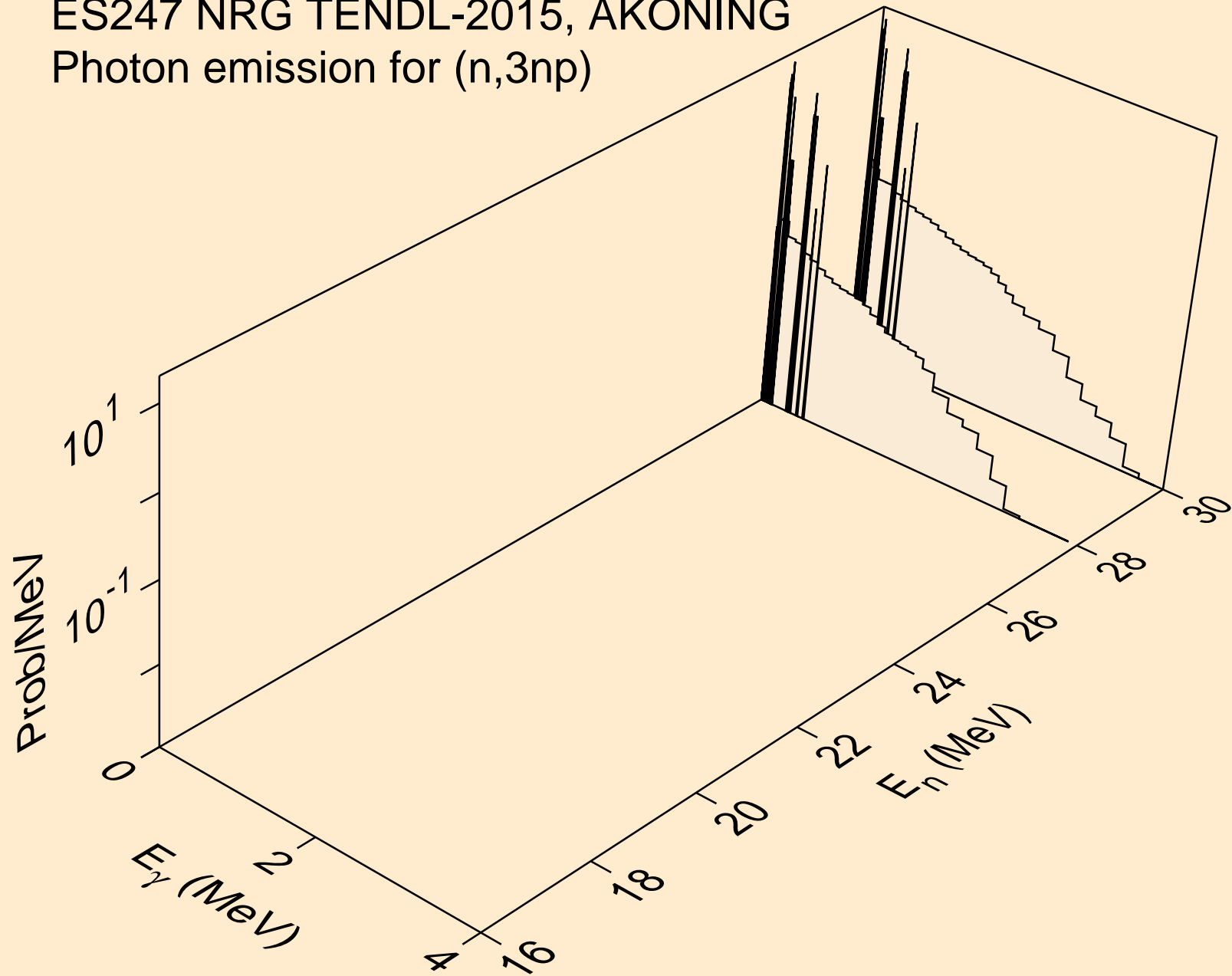




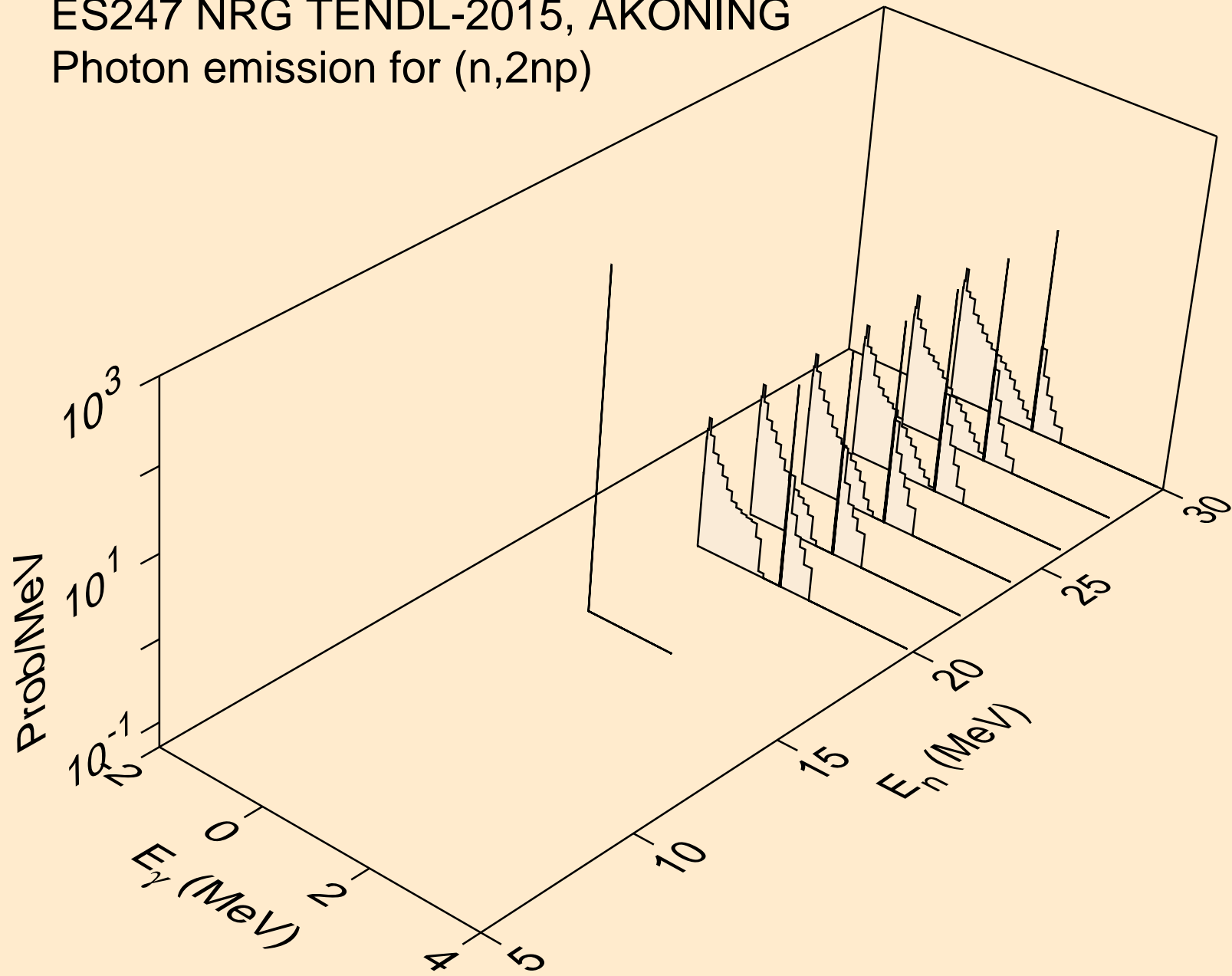
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



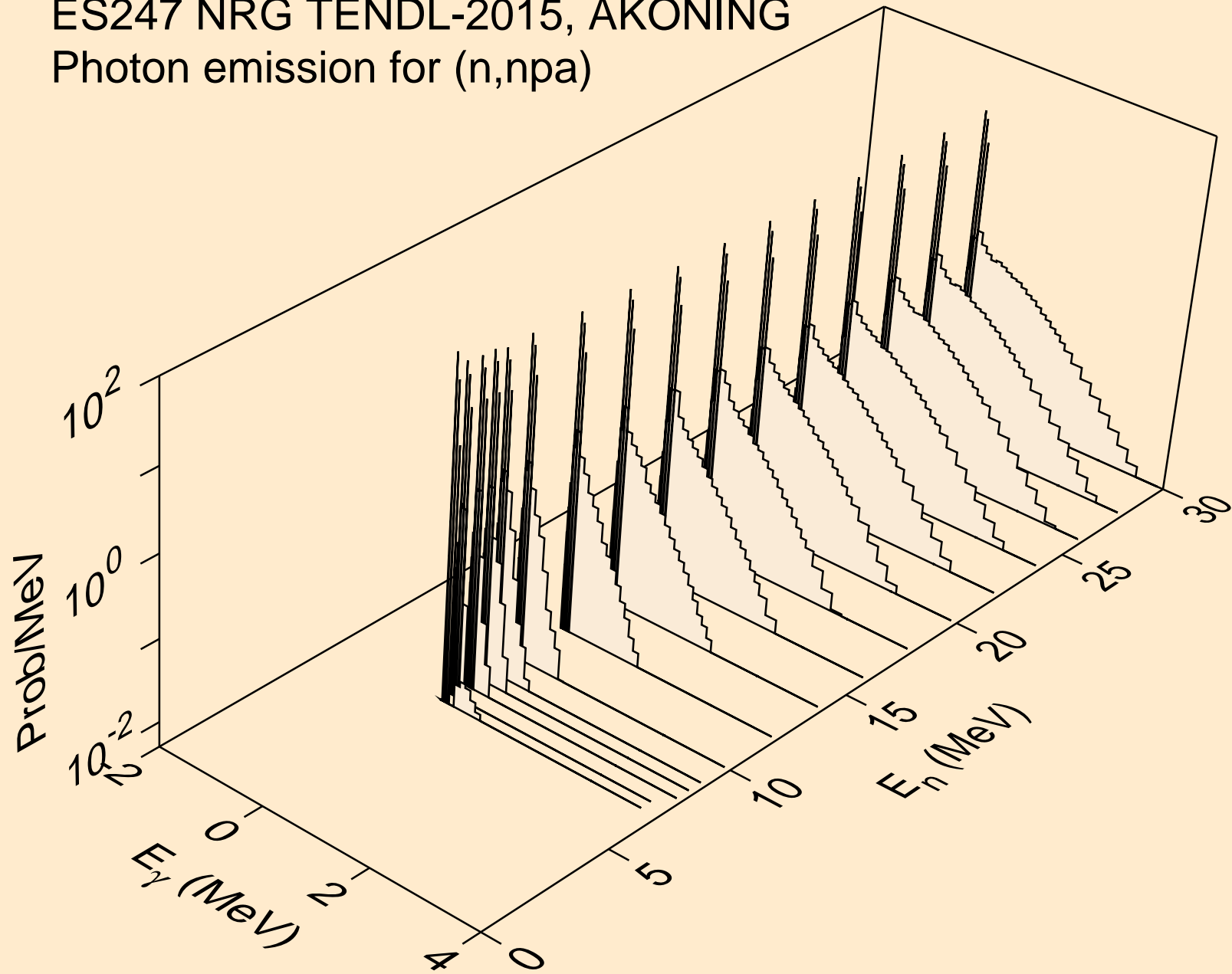
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,3np)



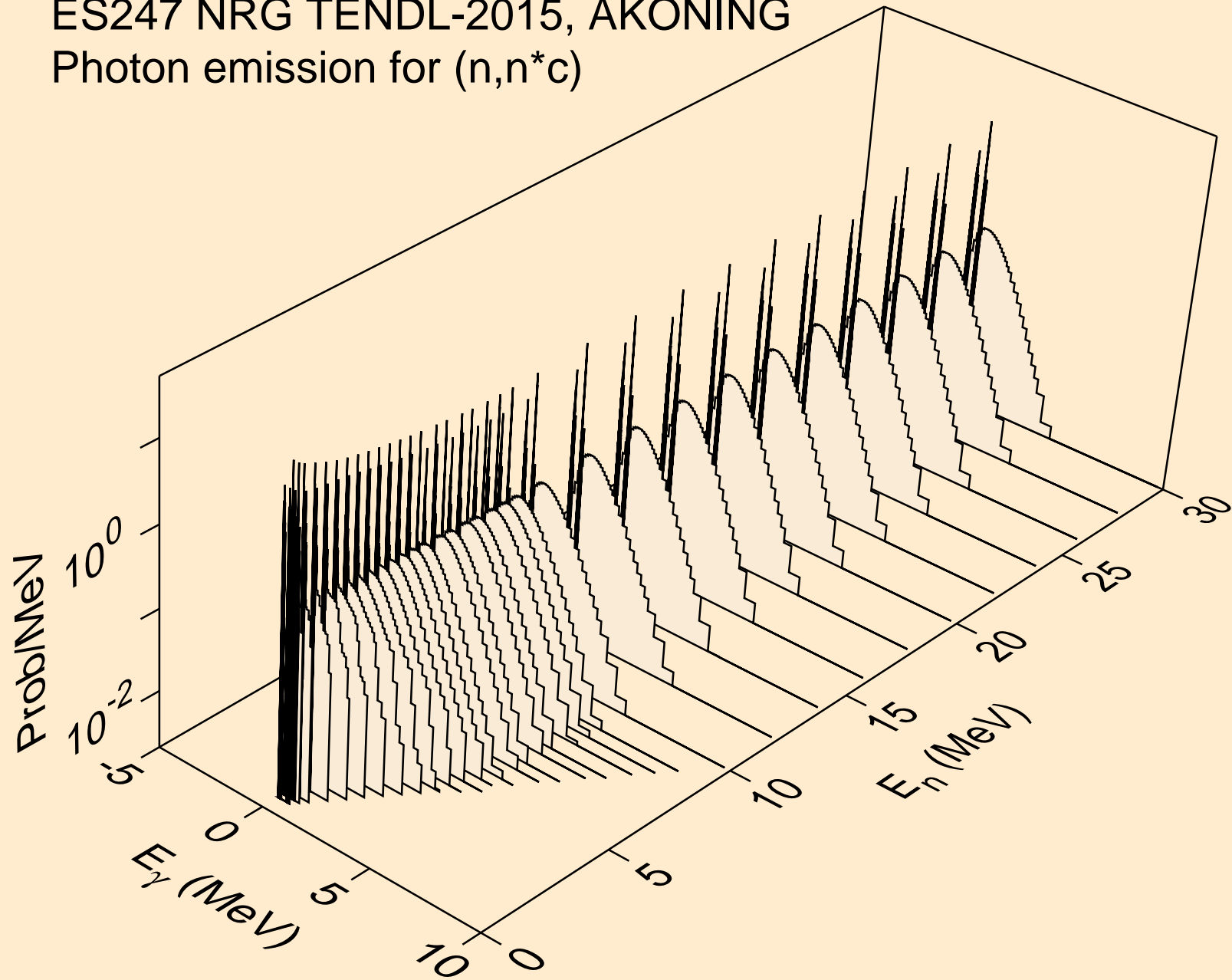
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



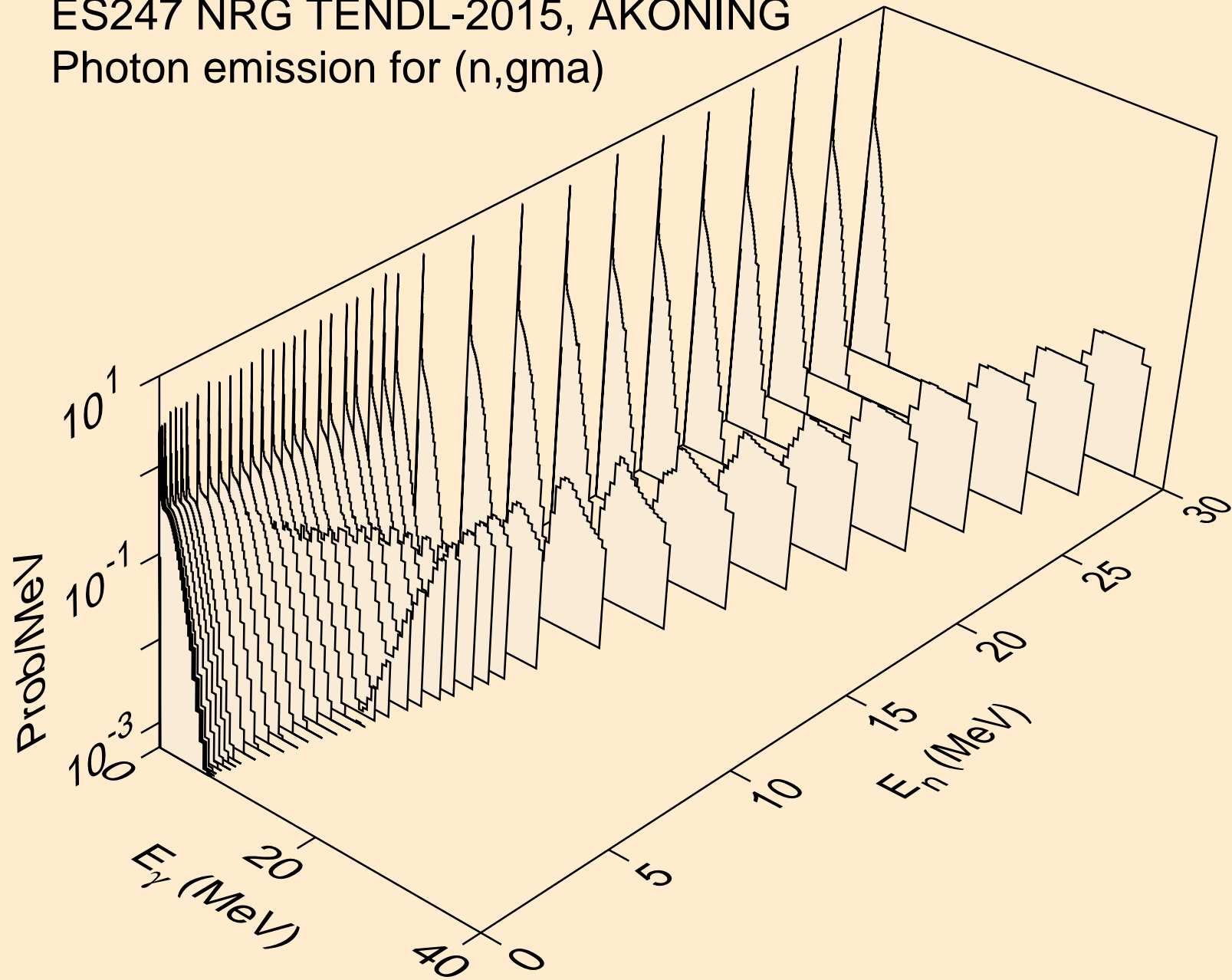
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,npa)



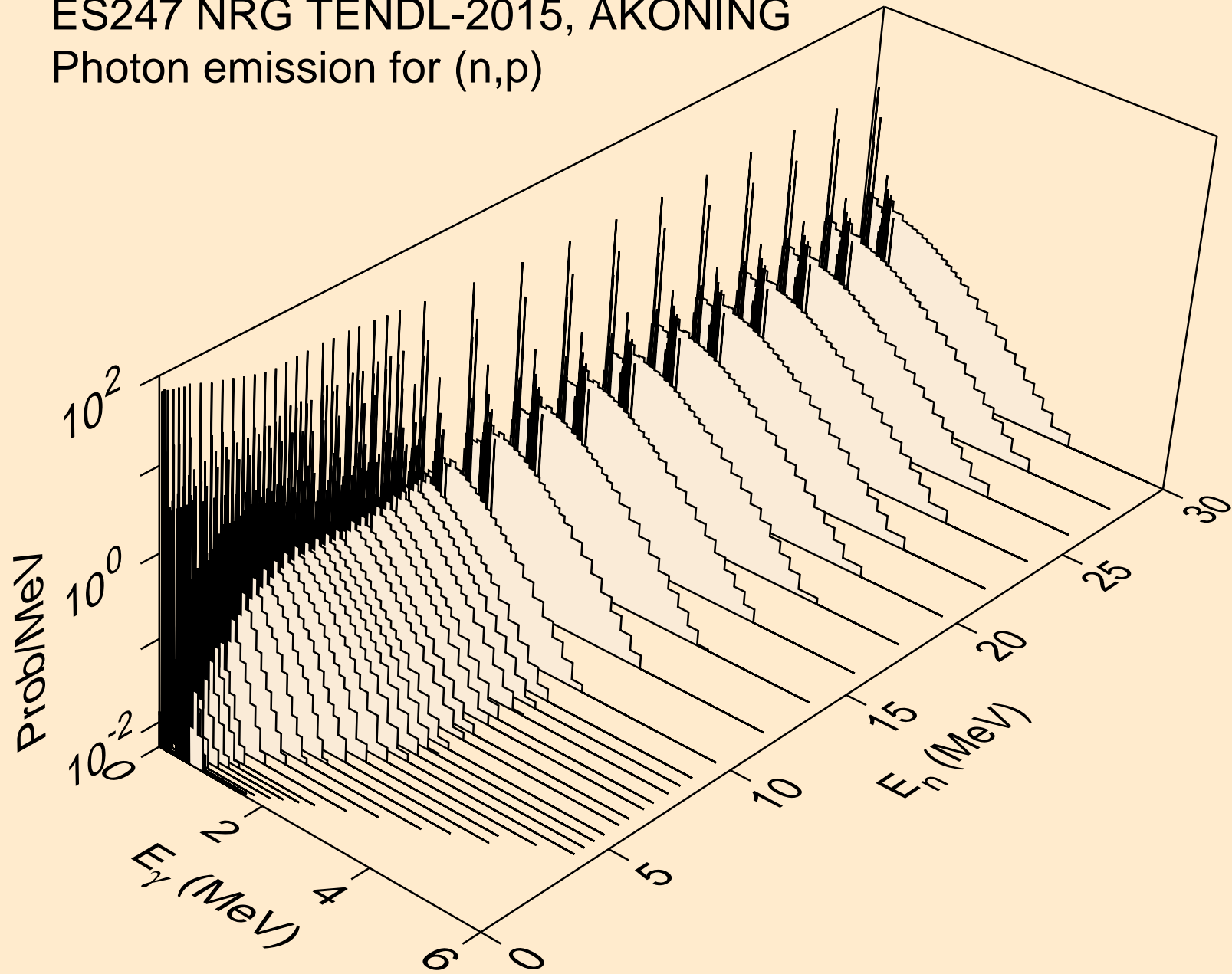
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*c)



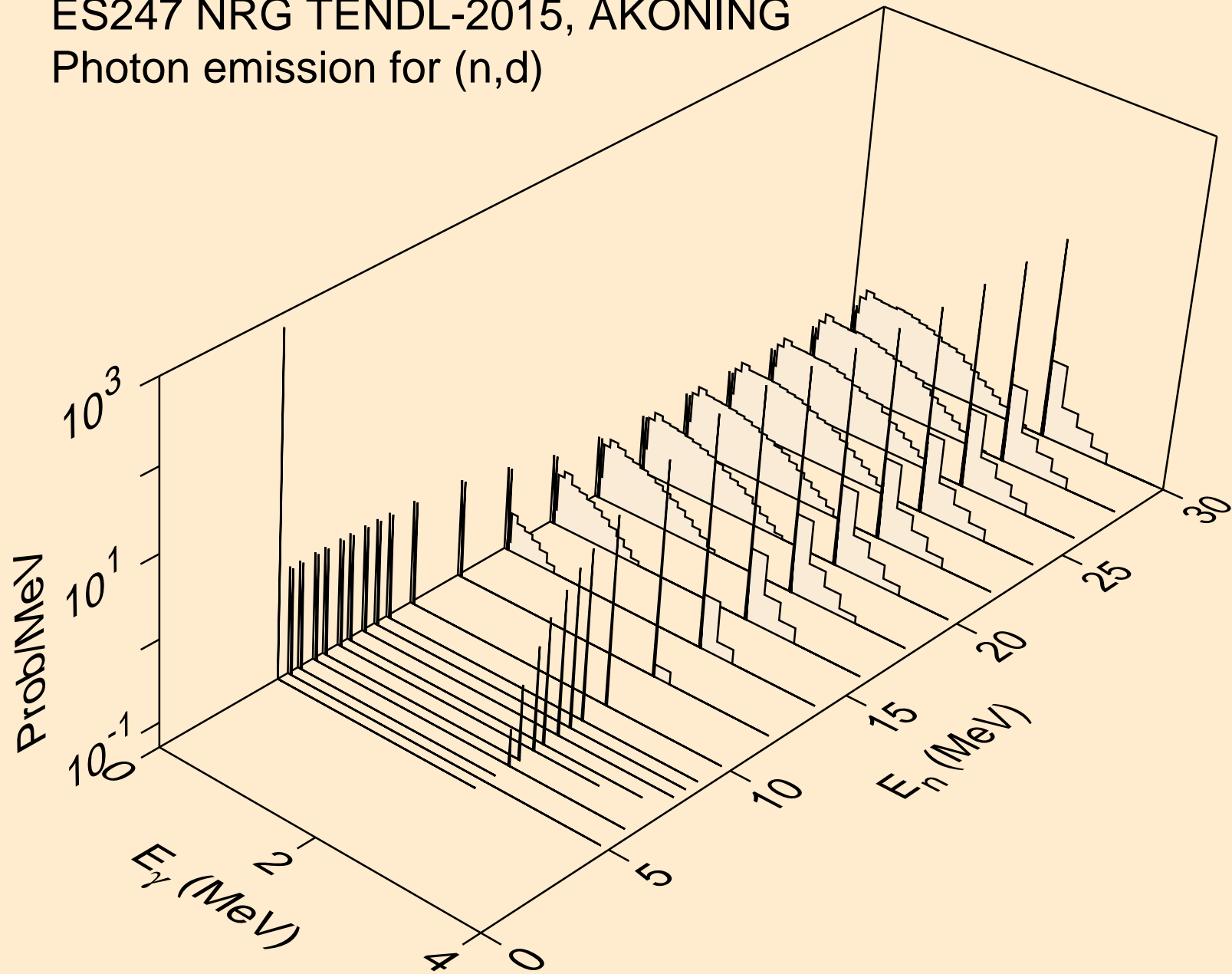
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,gma)



ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,p)

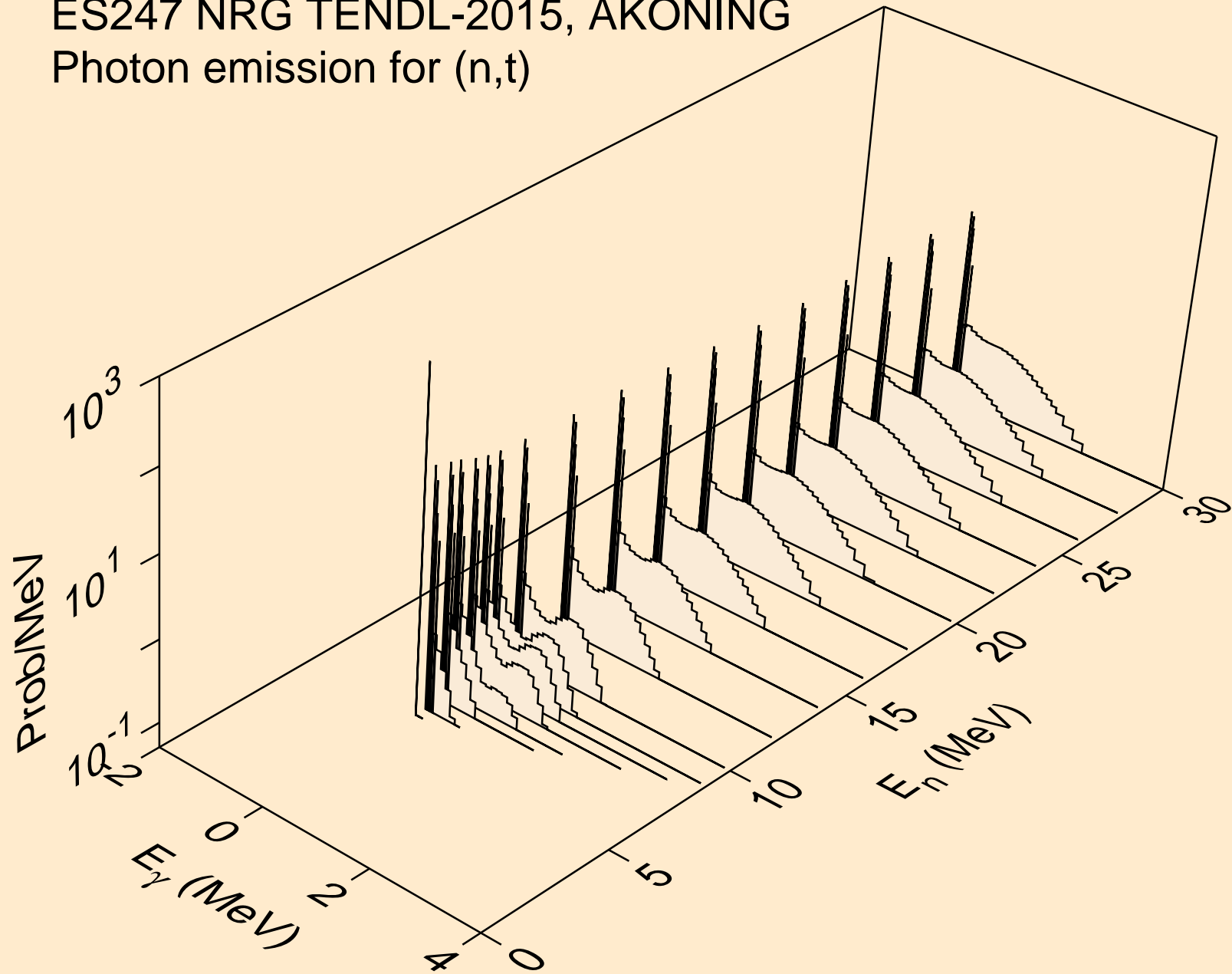


ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,d)

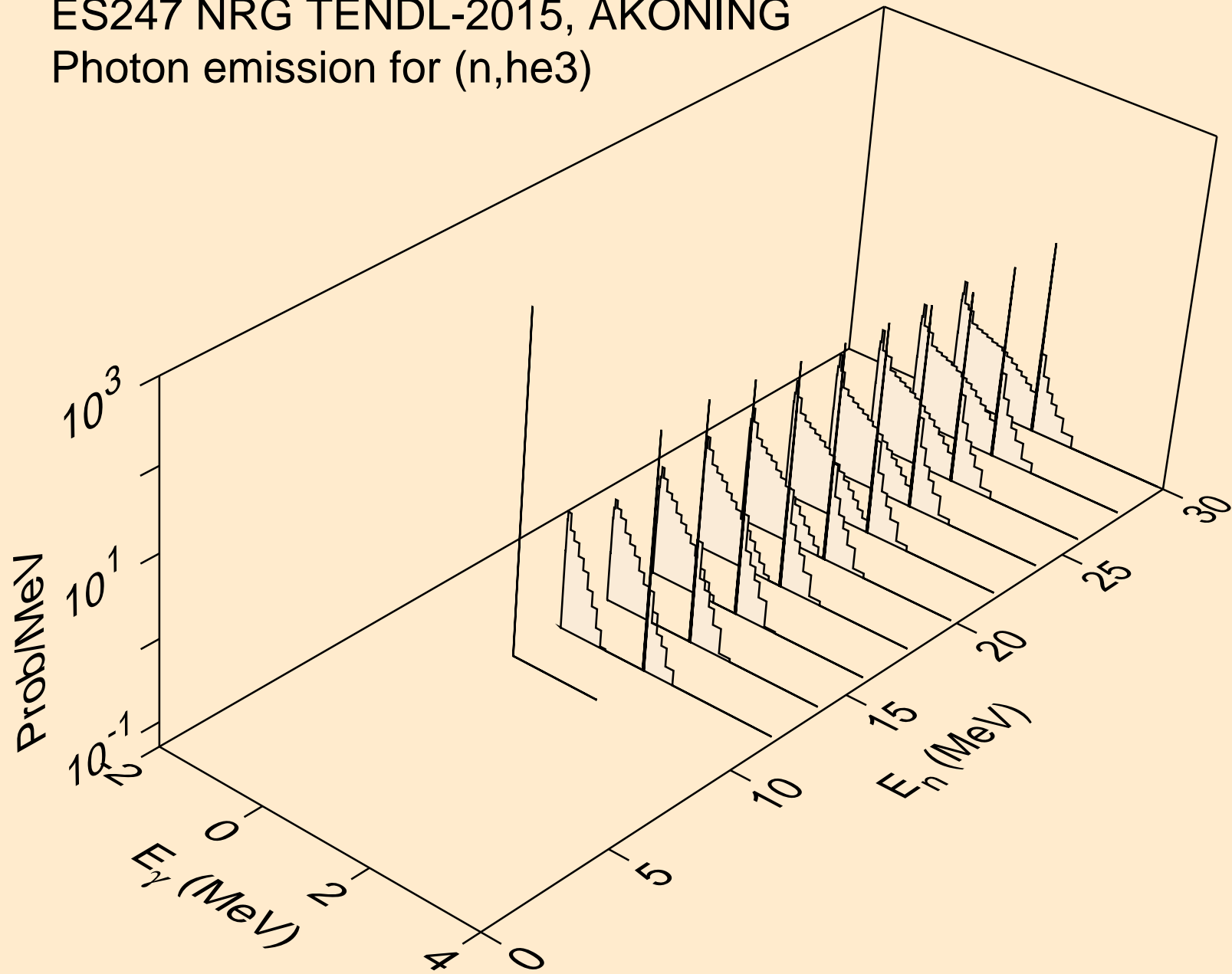




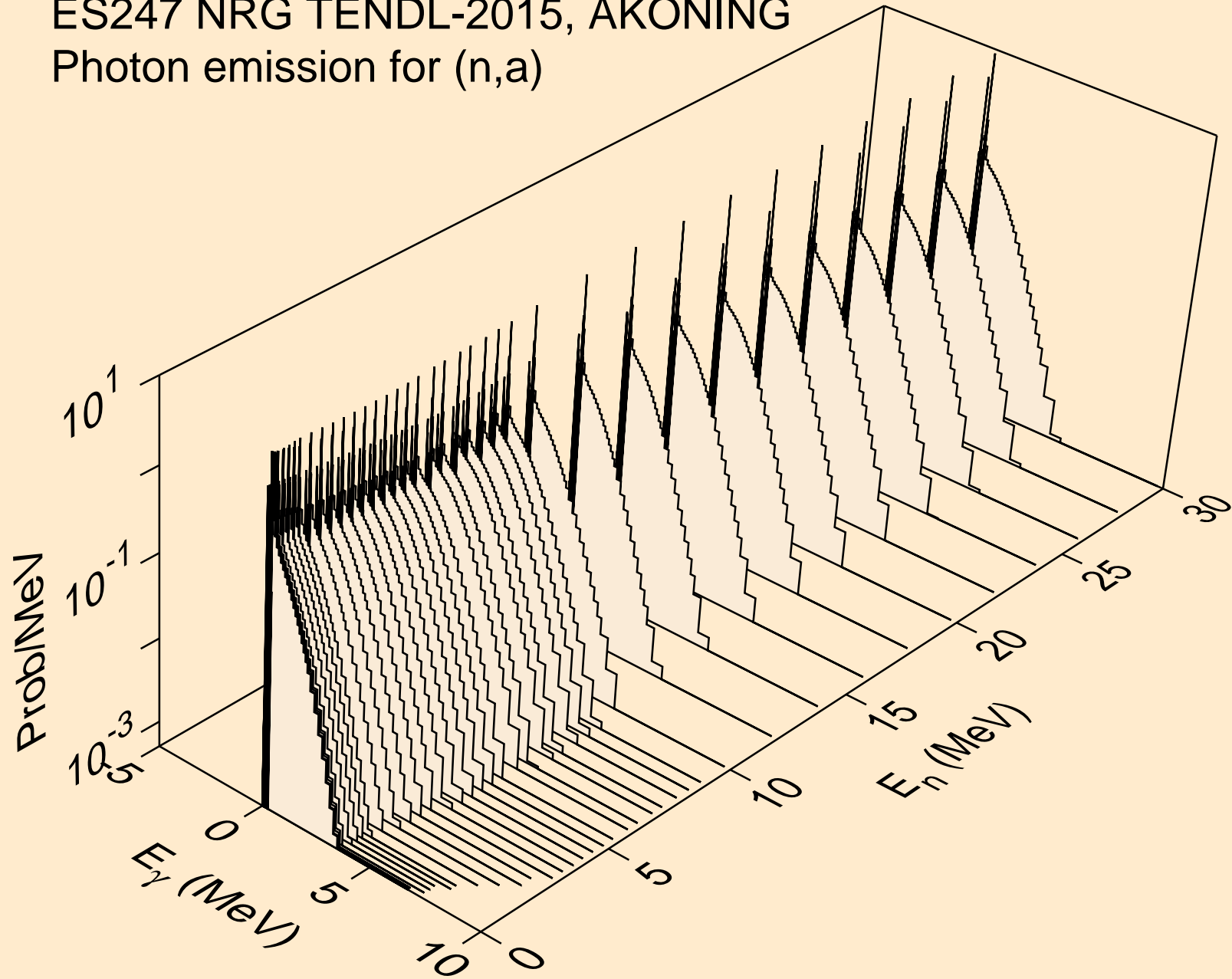
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,t)



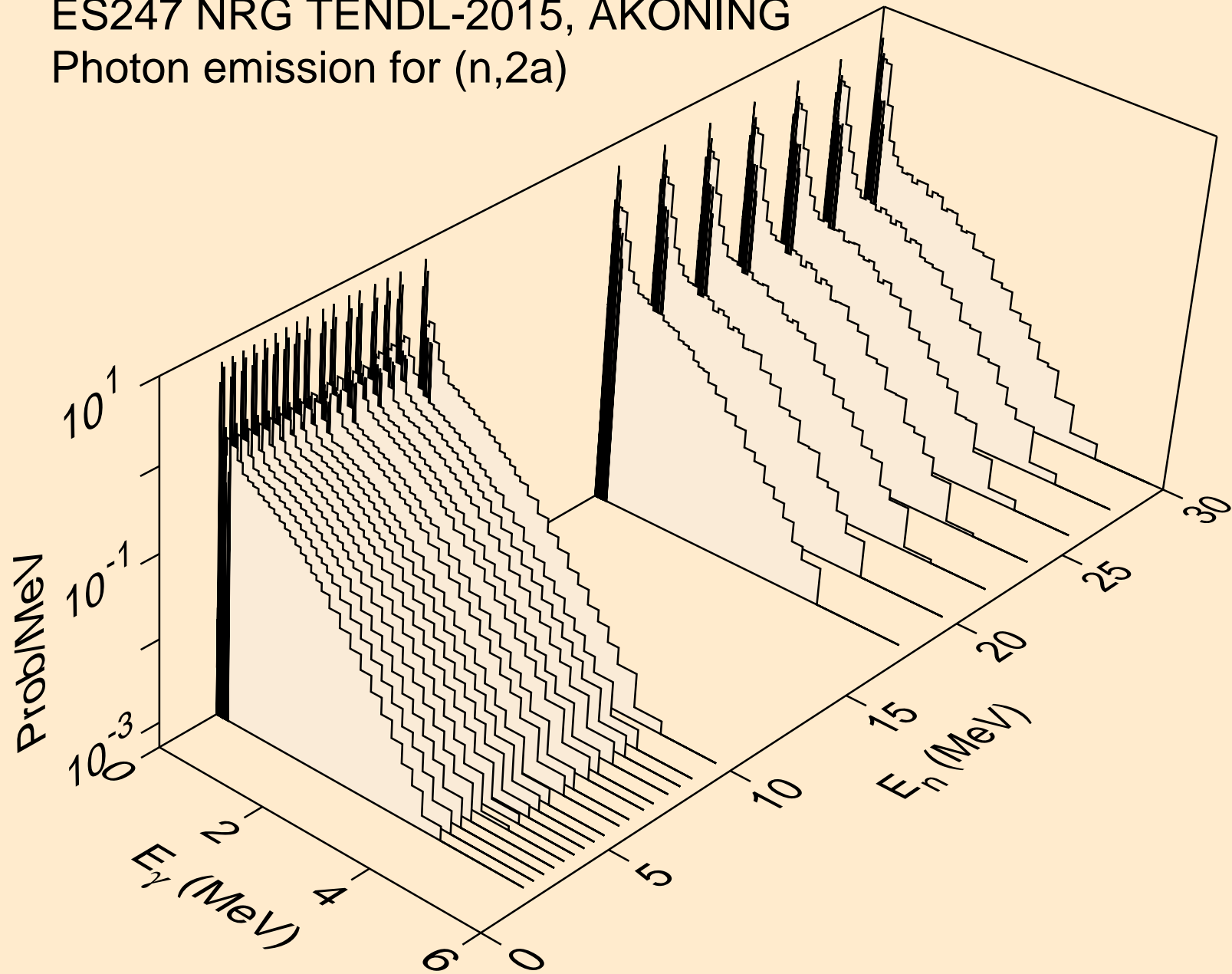
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,he3)



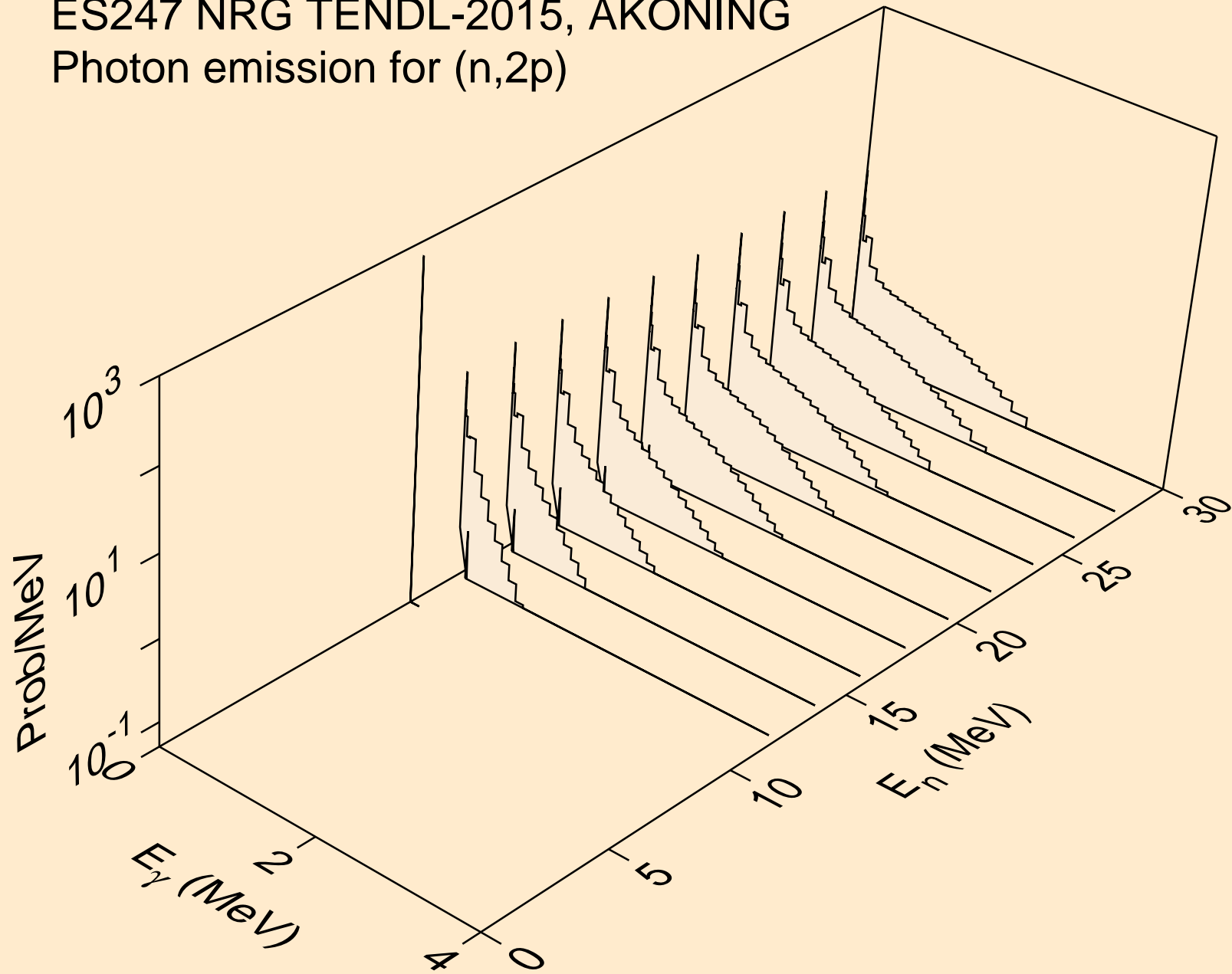
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,a)



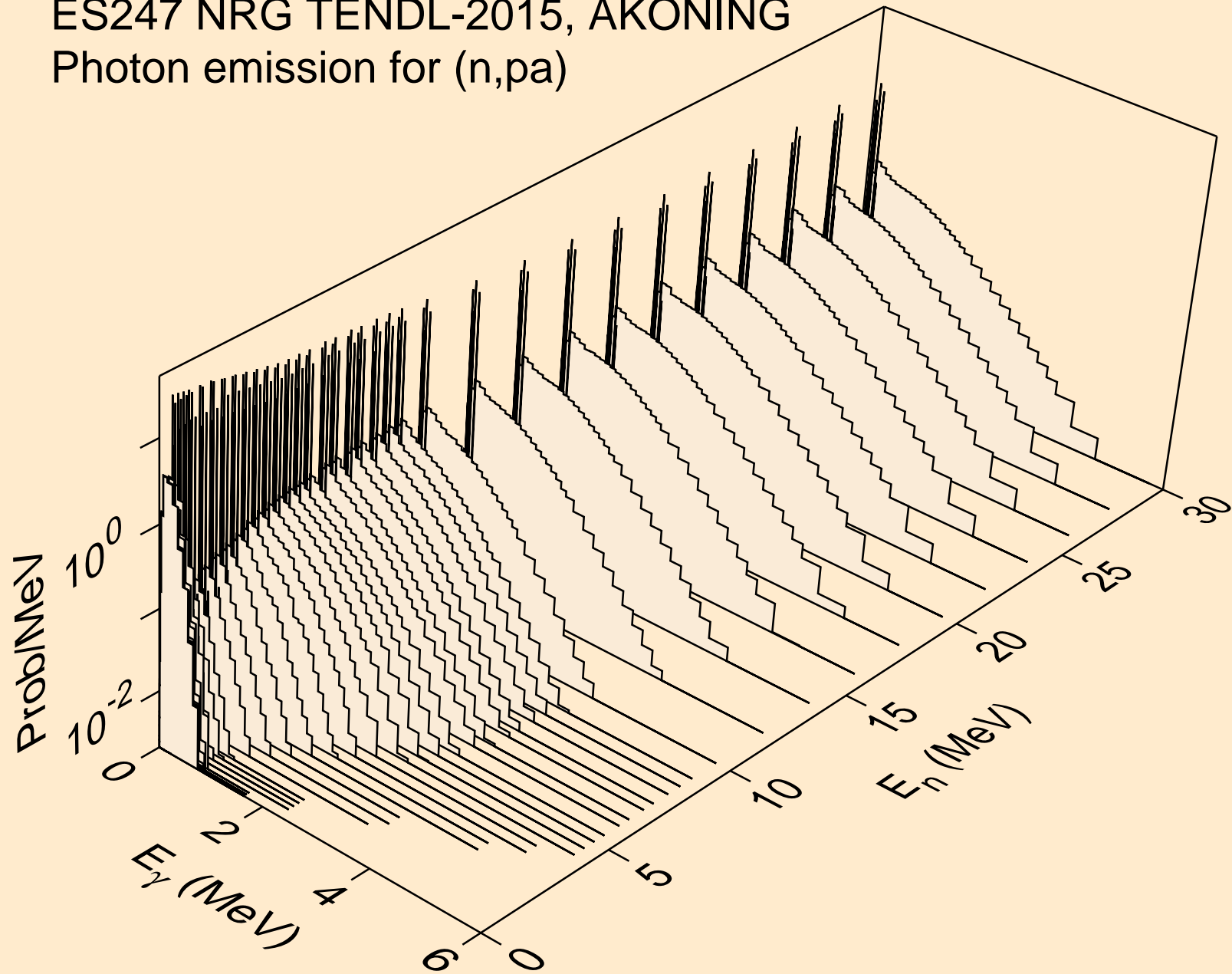
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,2a)



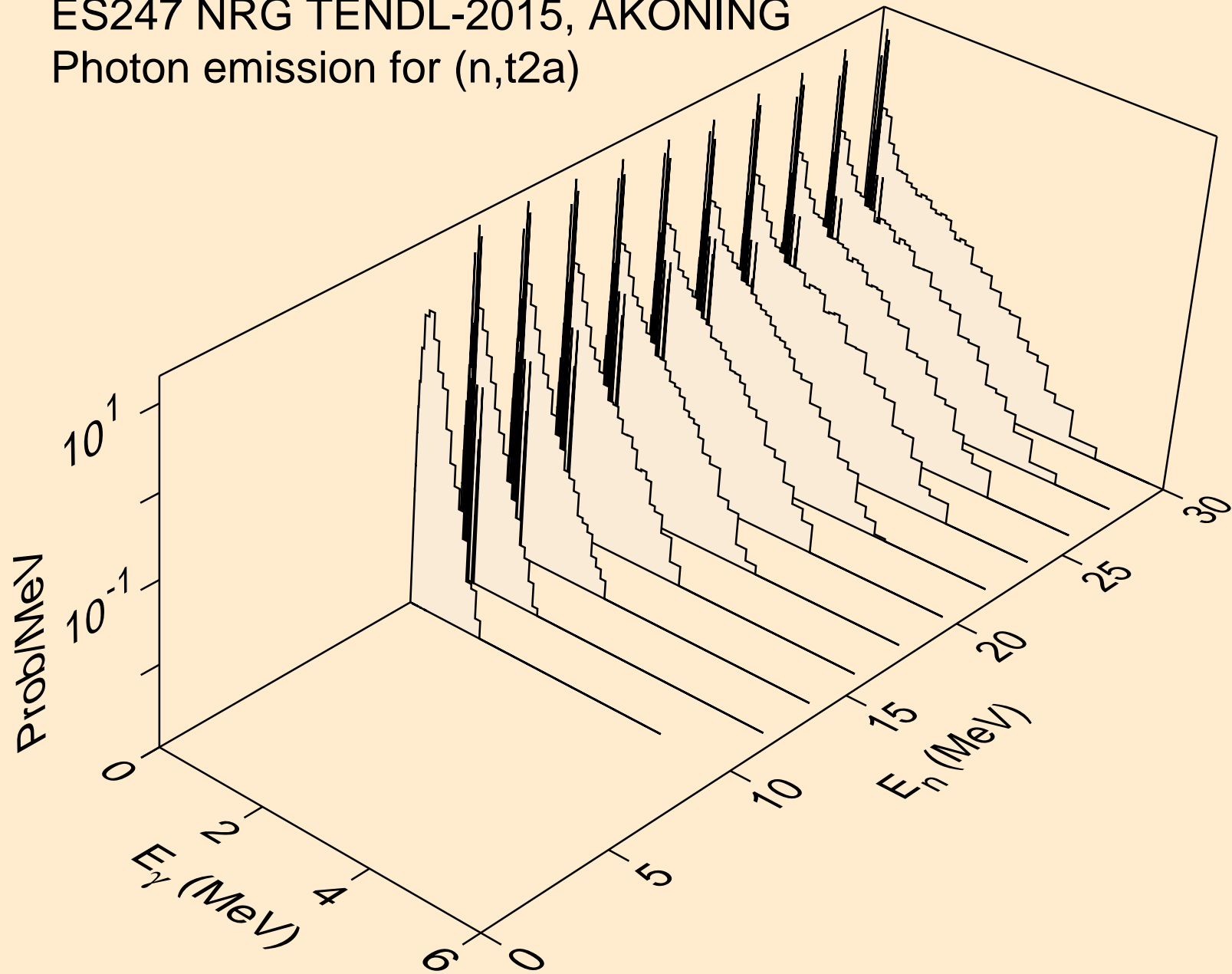
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,2p)



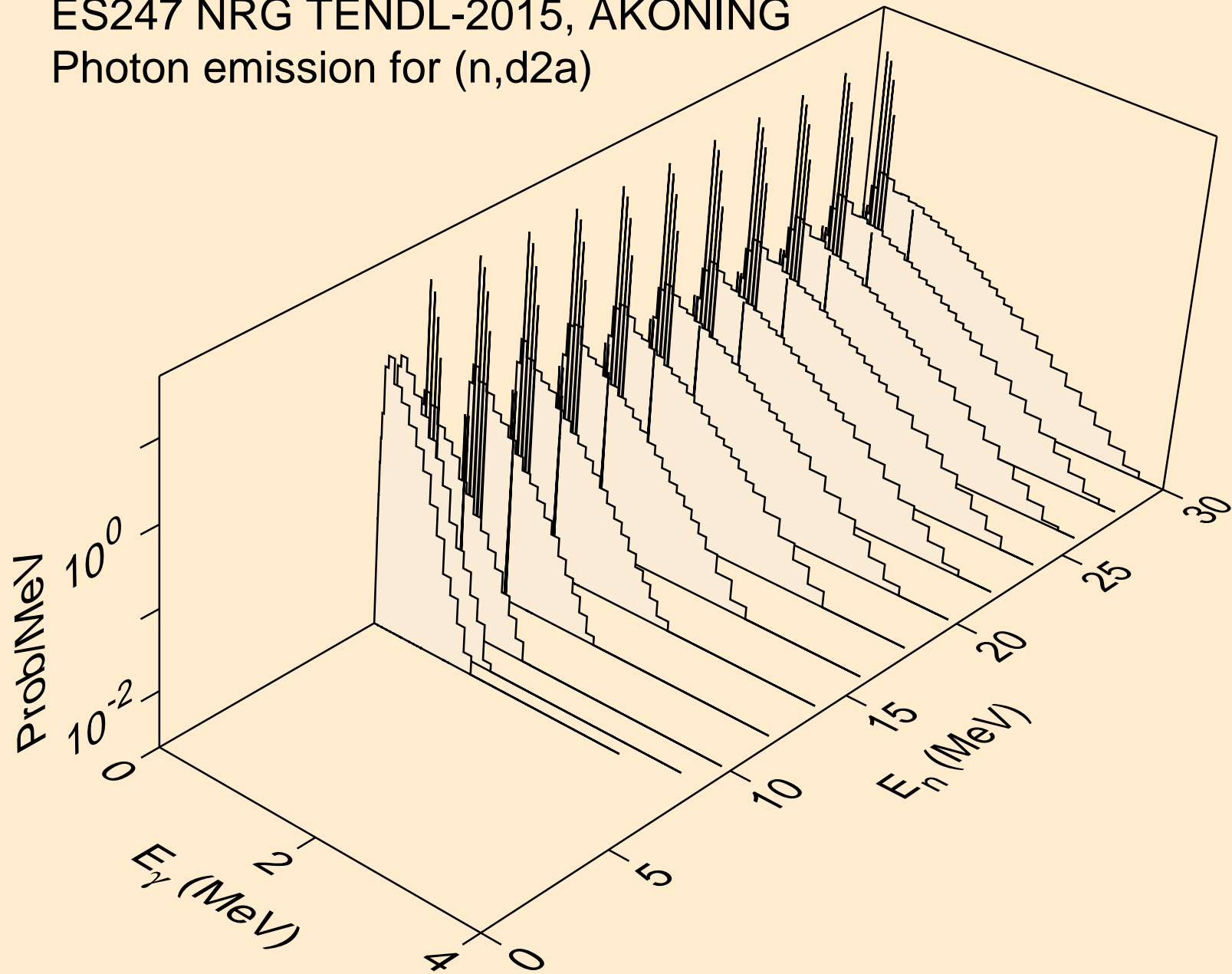
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,p $\alpha$ )



ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,t2a)

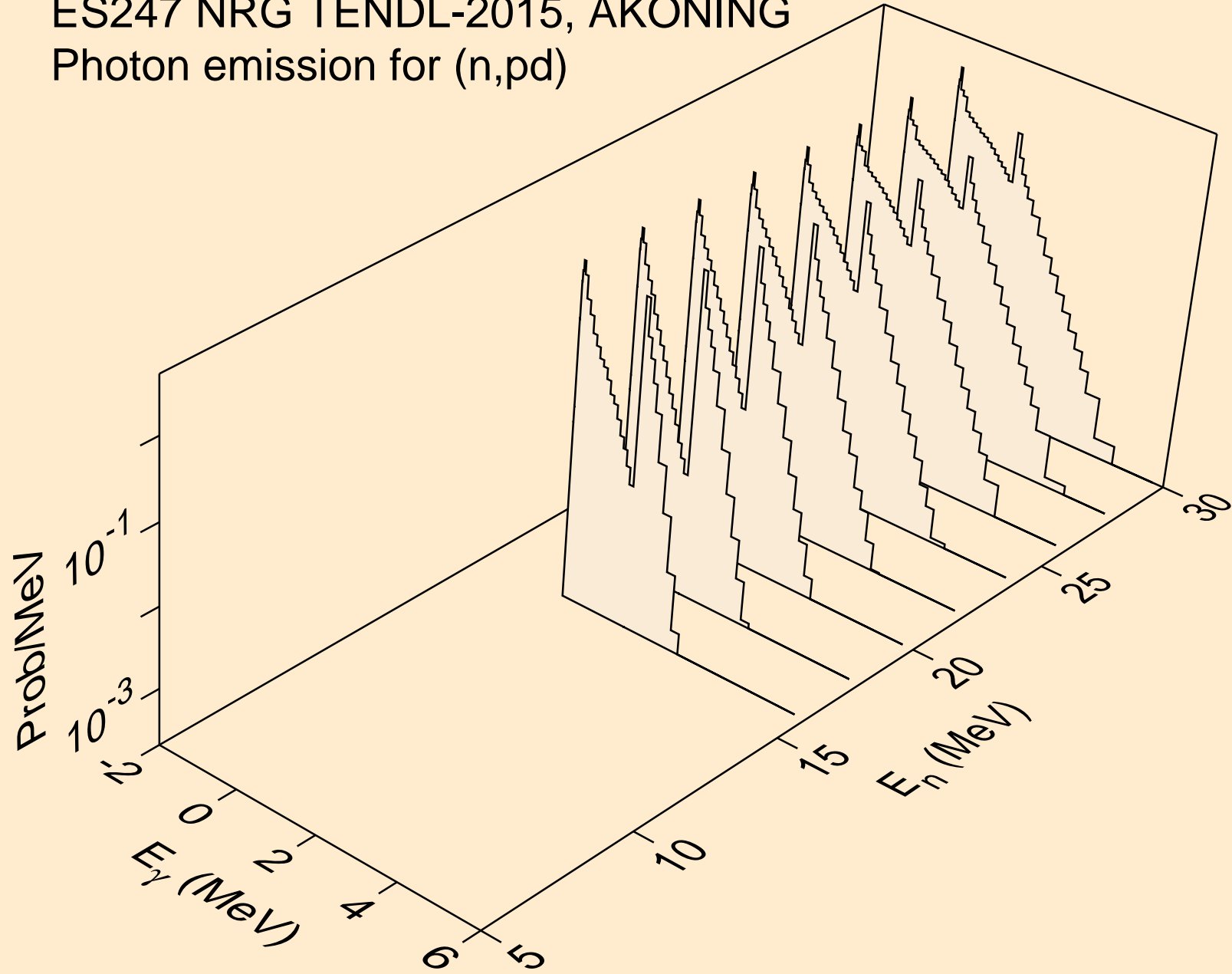


ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,d2a)

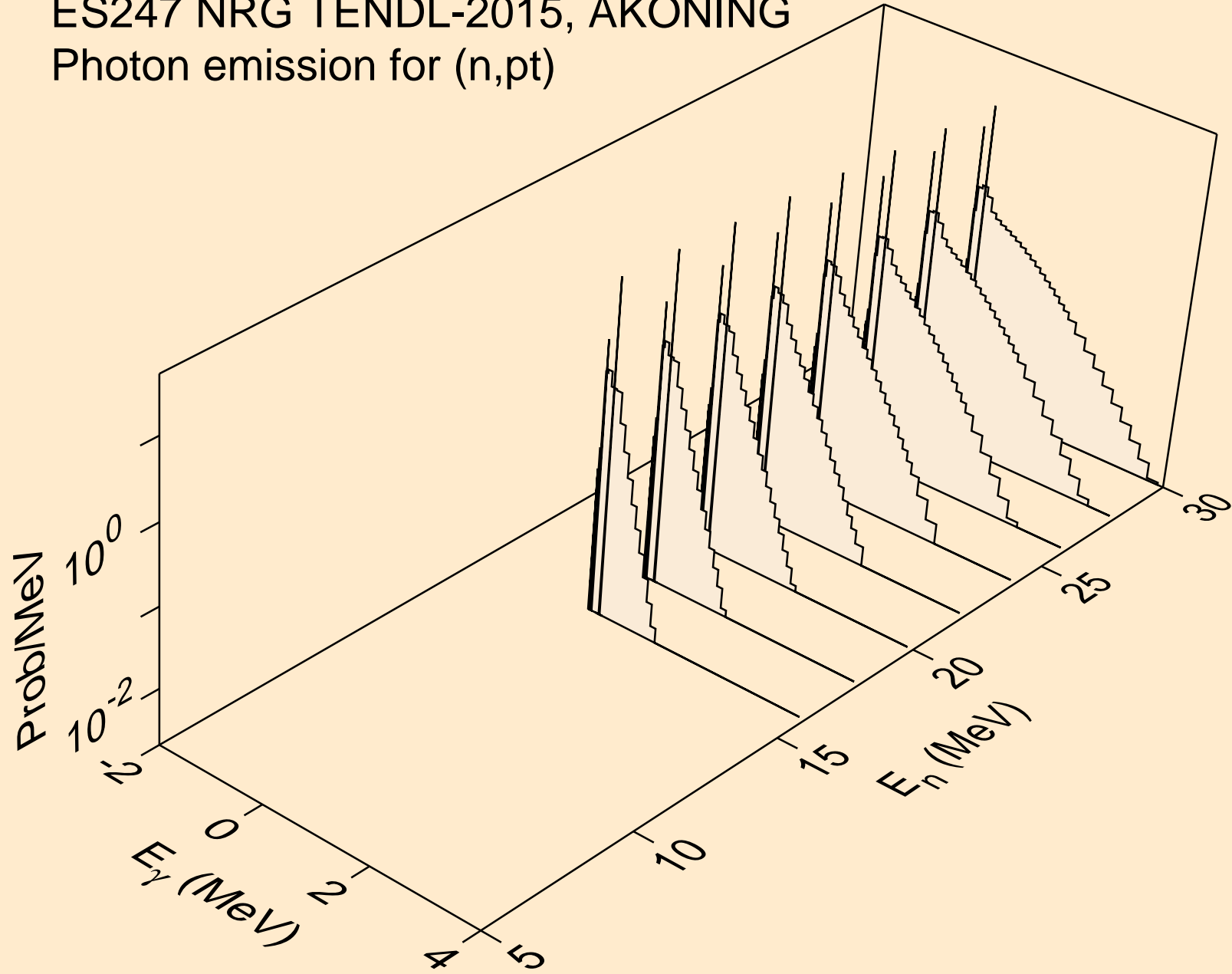




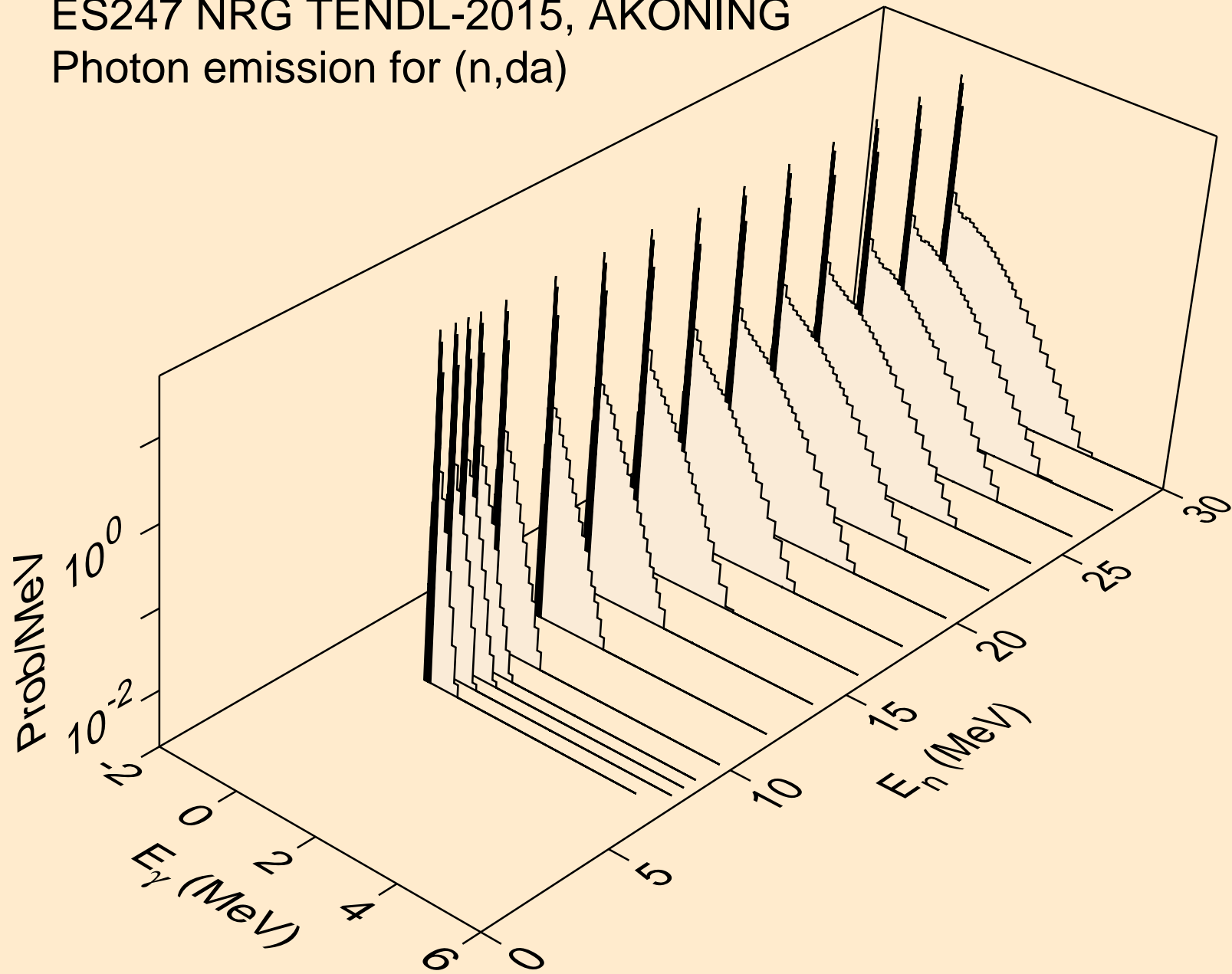
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,pd)



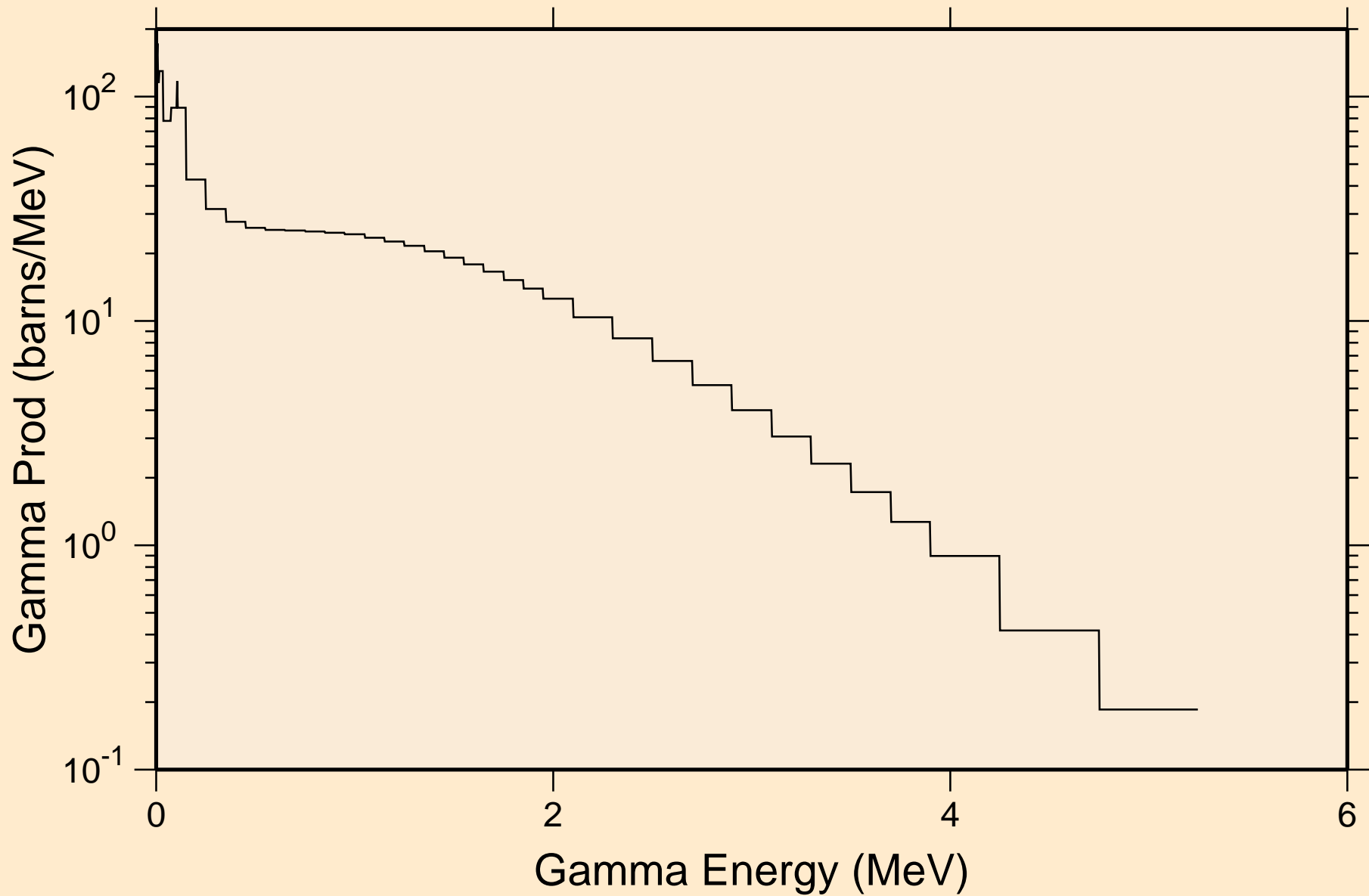
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,pt)



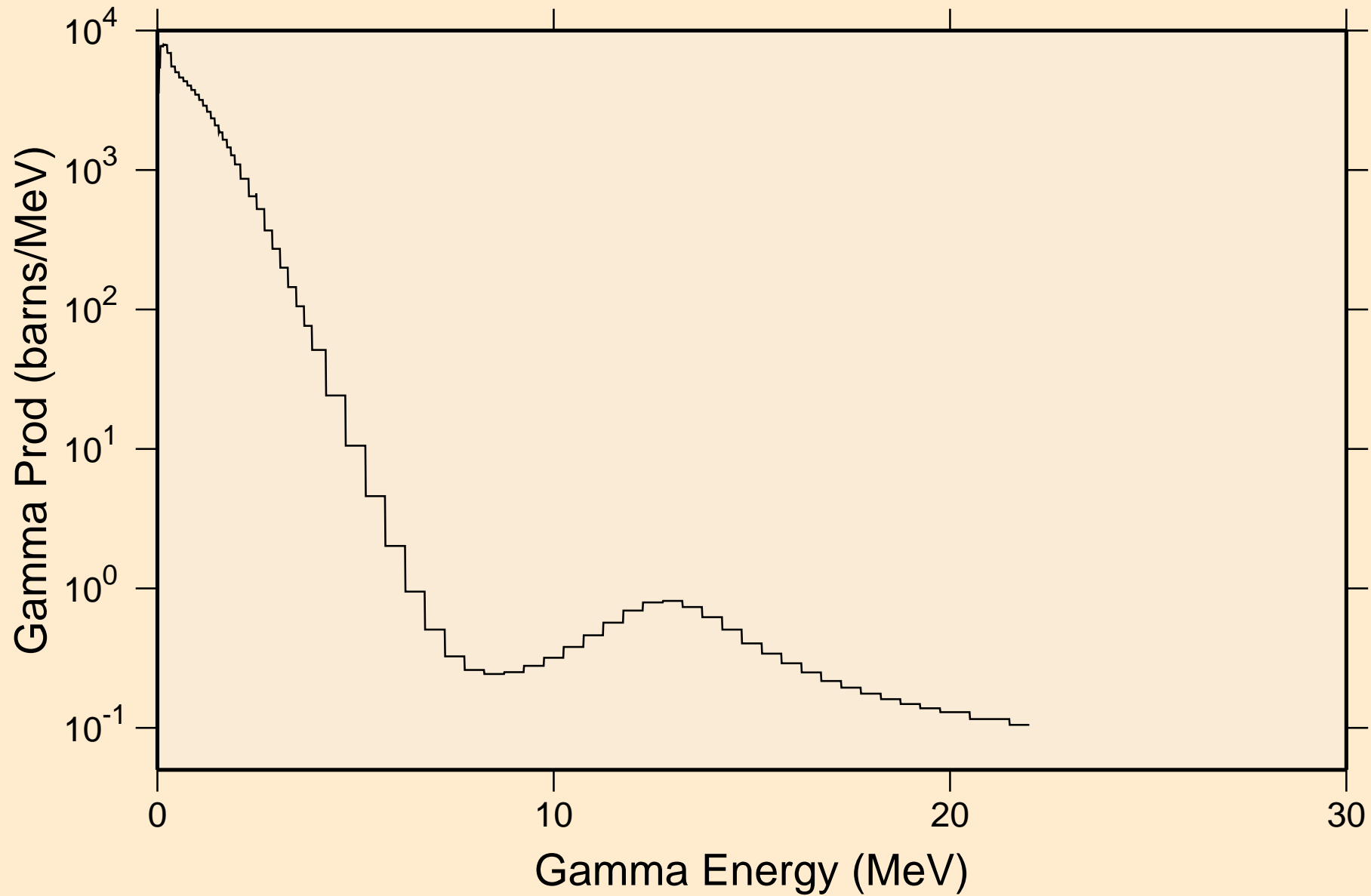
ES247 NRG TENDL-2015, AKONING  
Photon emission for (n,da)



ES247 NRG TENDL-2015, AKONING  
thermal capture photon spectrum

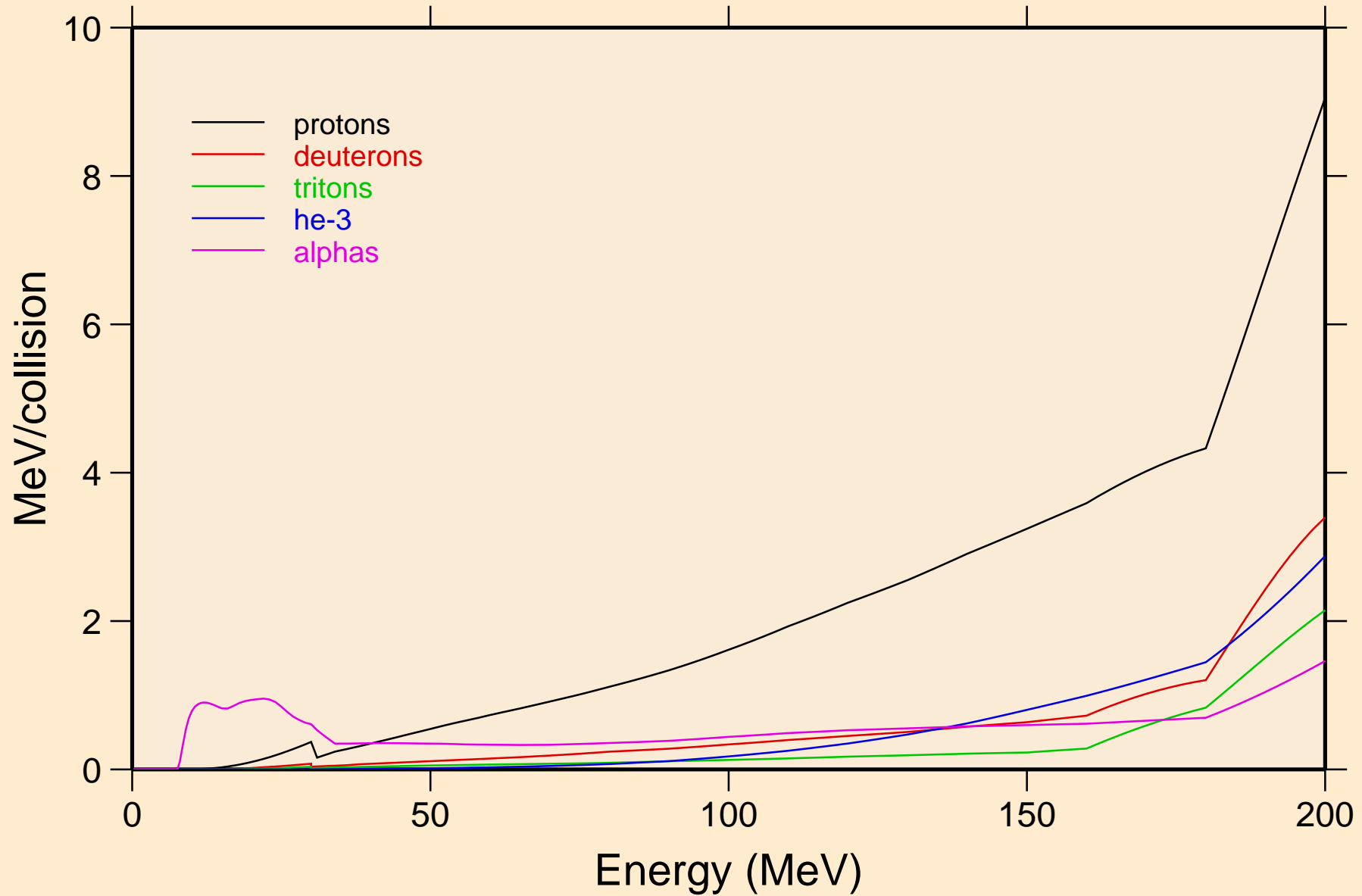


ES247 NRG TENDL-2015, AKONING  
14 MeV photon spectrum



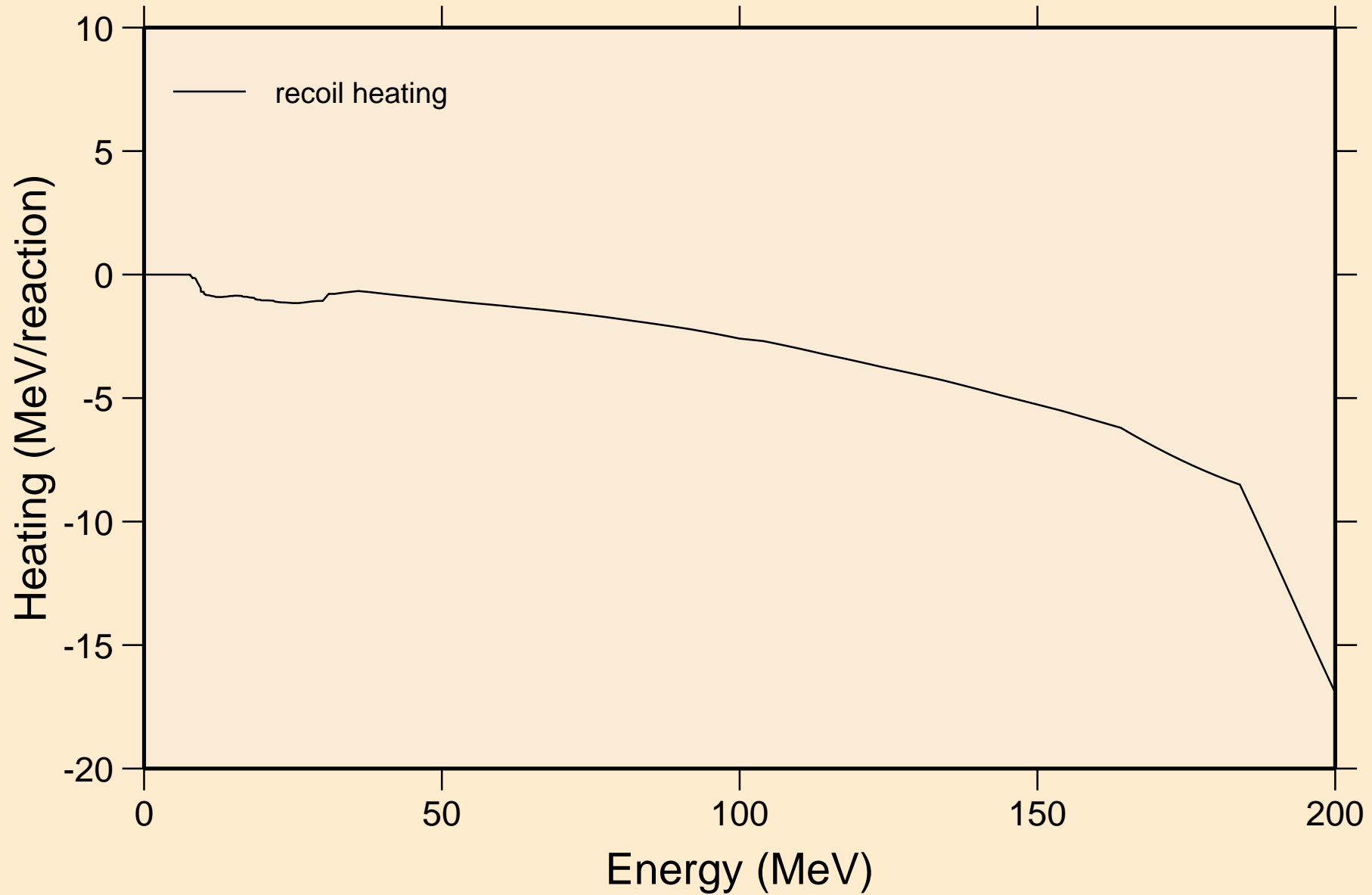
# ES247 NRG TENDL-2015, AKONING

## Particle heating contributions



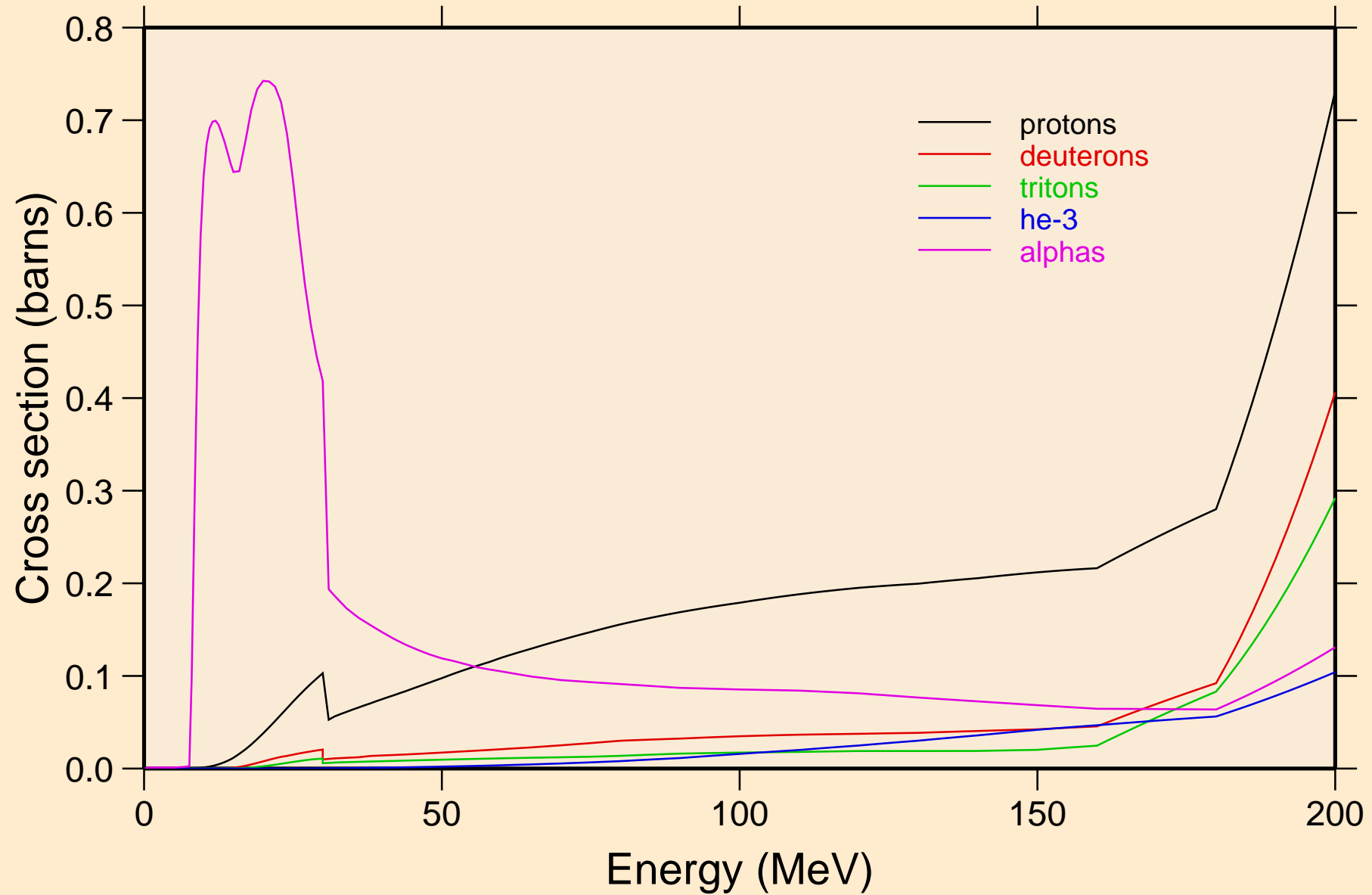
# ES247 NRG TENDL-2015, AKONING

## Recoil Heating



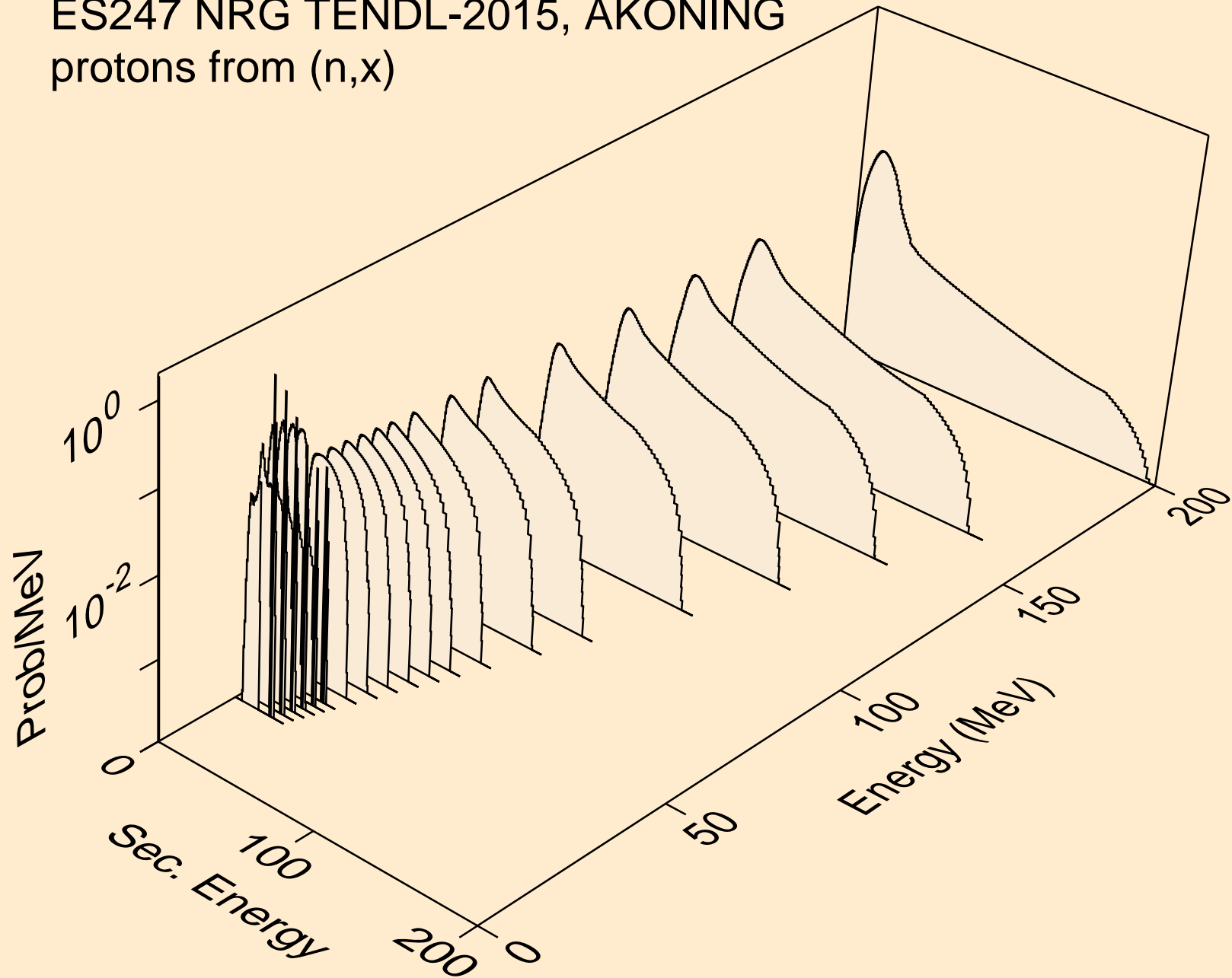
# ES247 NRG TENDL-2015, AKONING

## Particle production cross sections

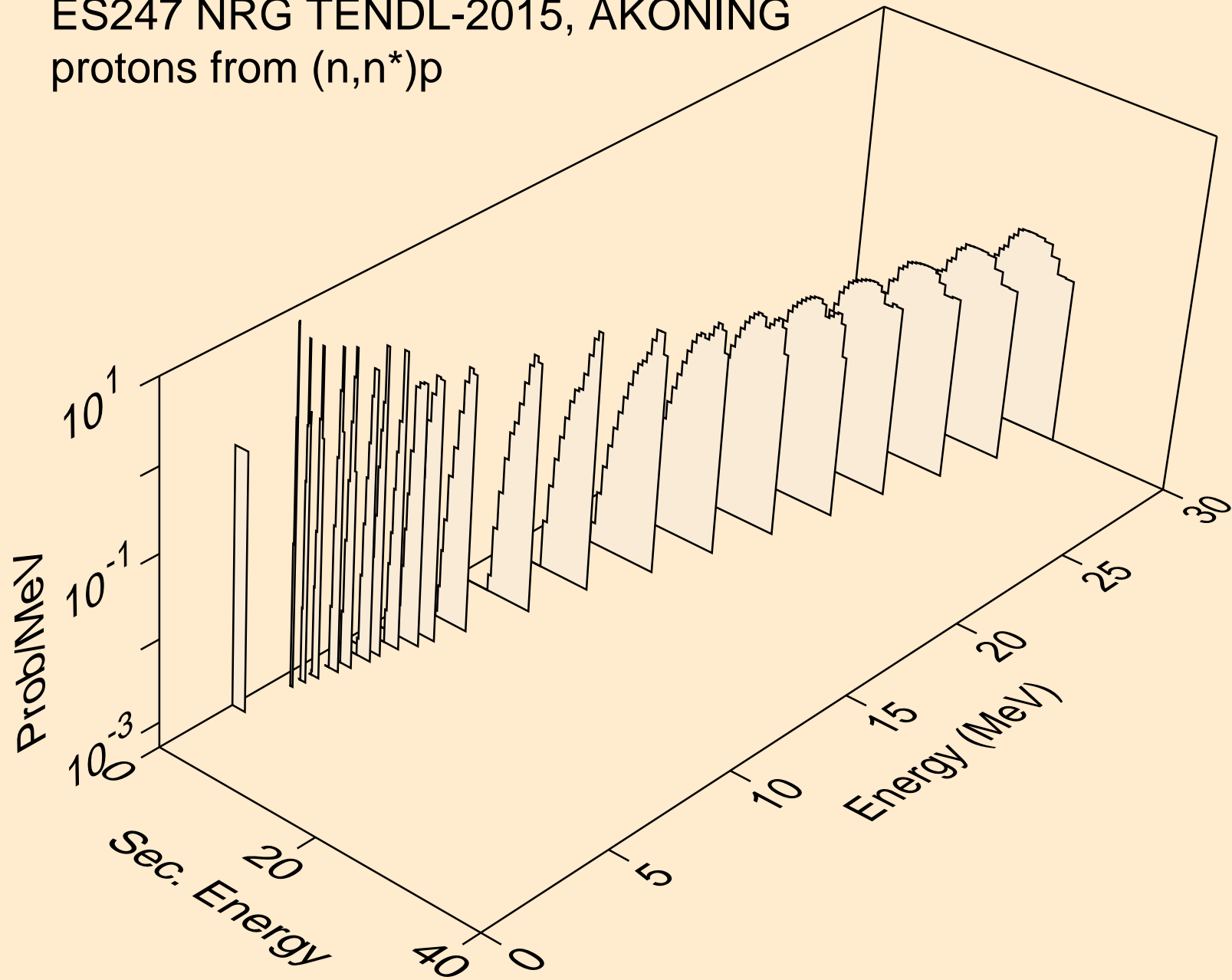




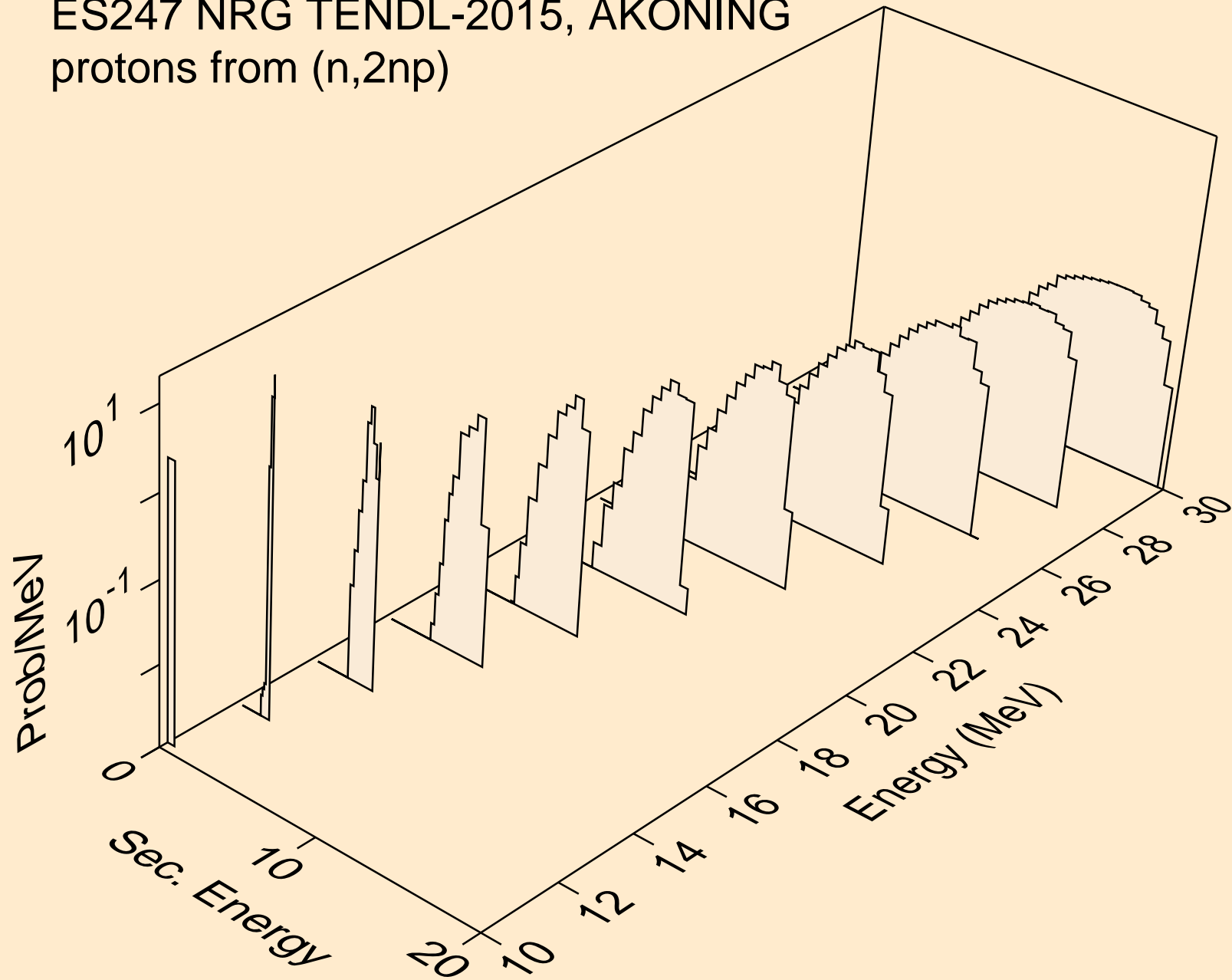
ES247 NRG TENDL-2015, AKONING  
protons from (n,x)



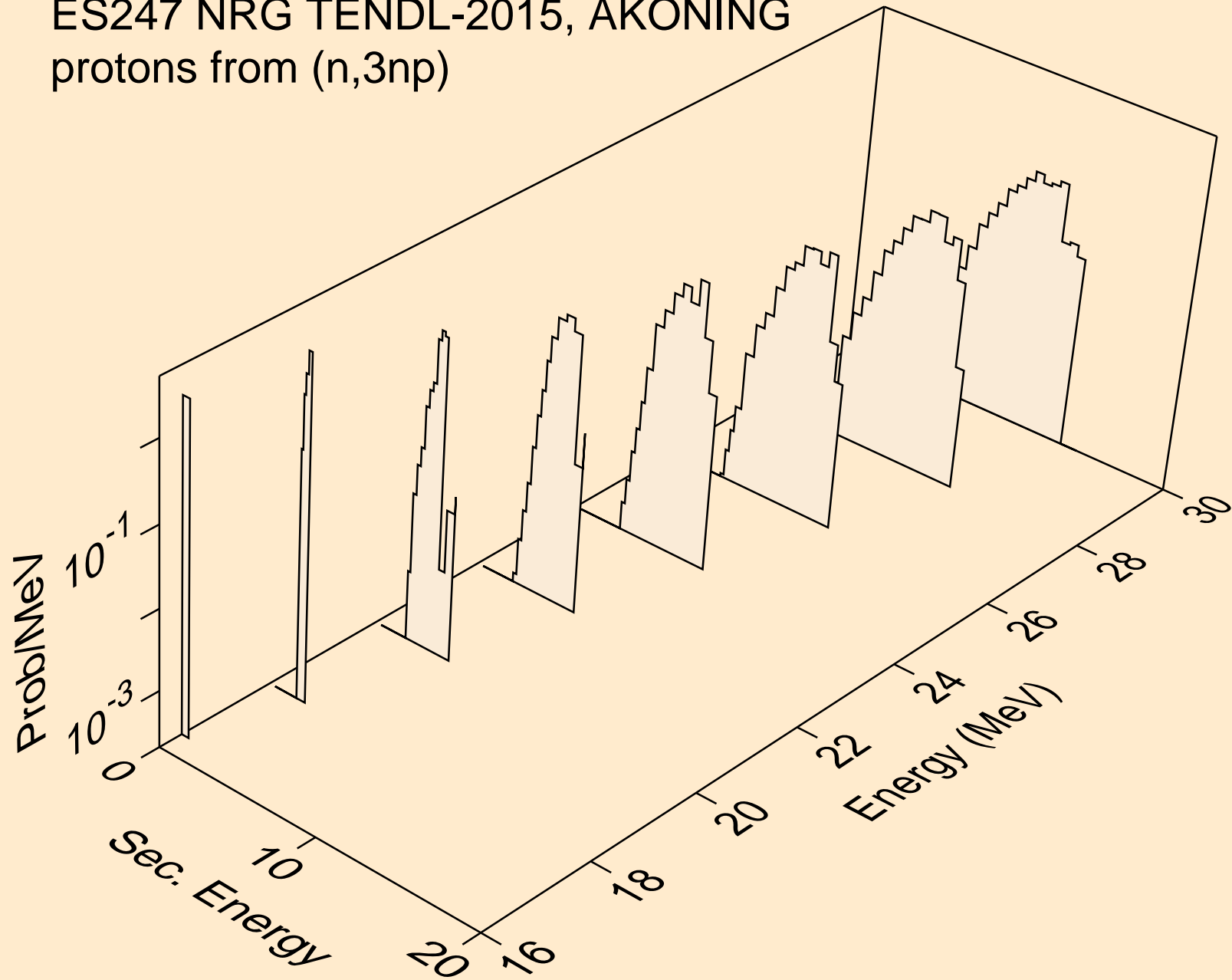
ES247 NRG TENDL-2015, AKONING  
protons from (n,n\*)p



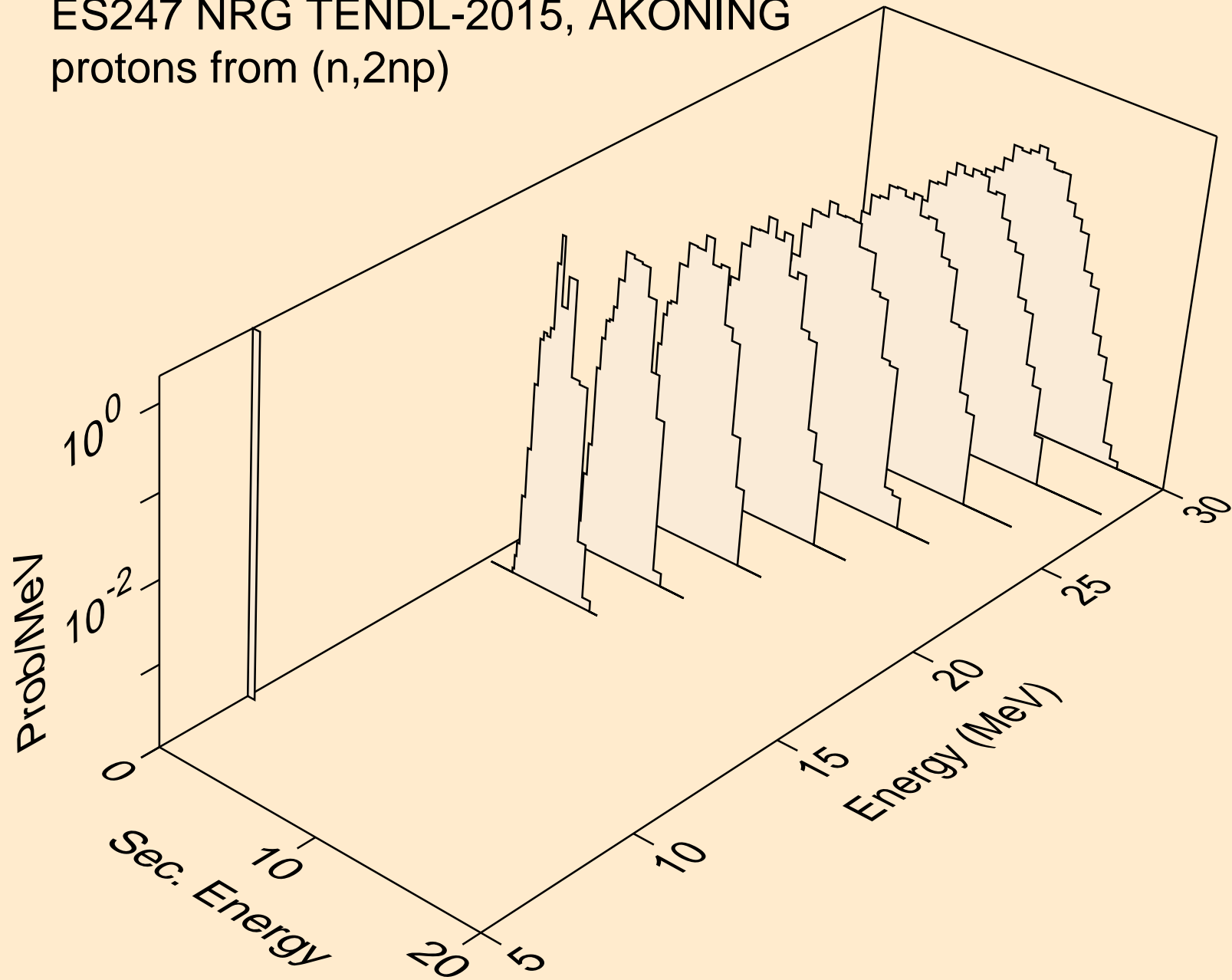
ES247 NRG TENDL-2015, AKONING  
protons from (n,2np)



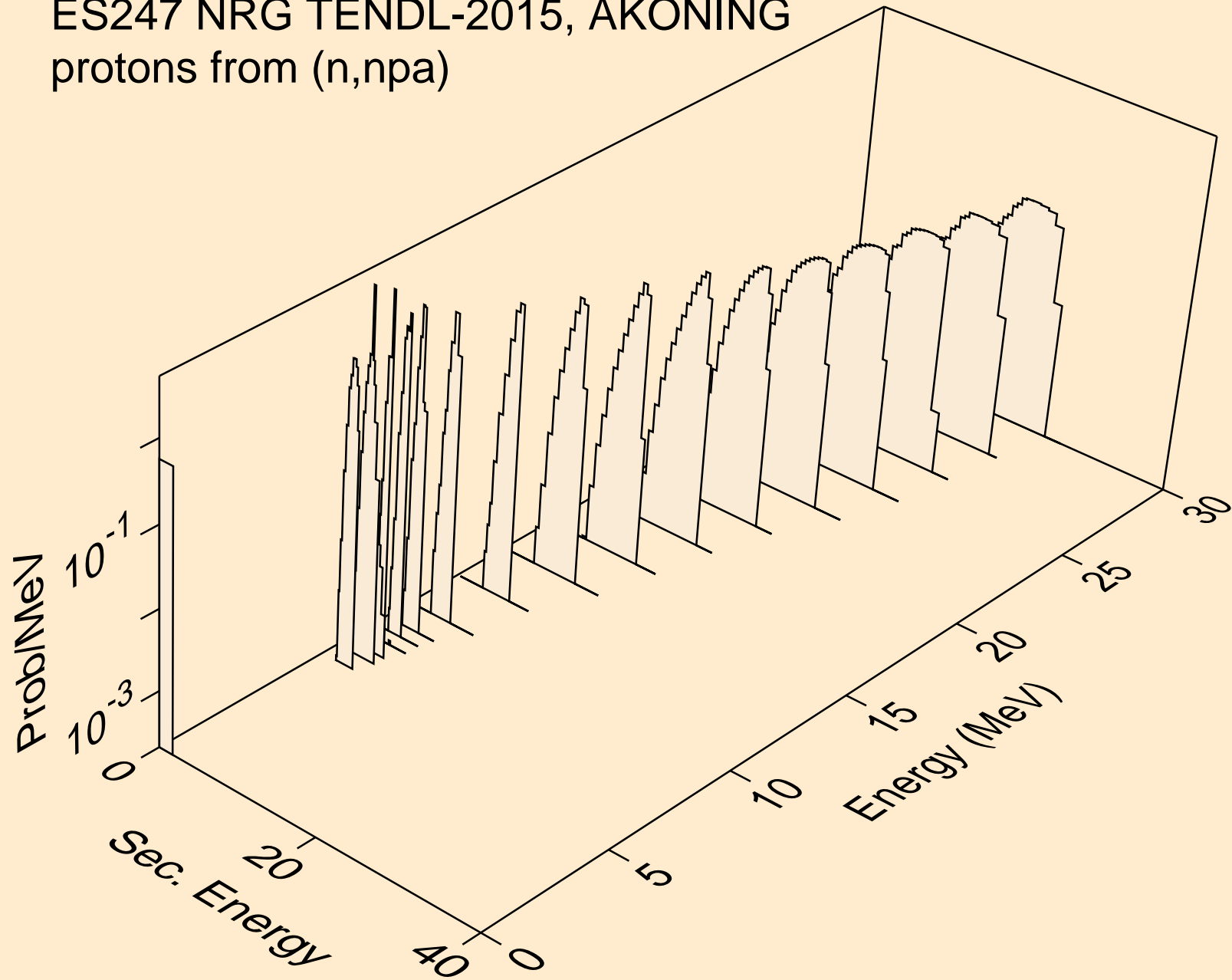
ES247 NRG TENDL-2015, AKONING  
protons from (n,3np)



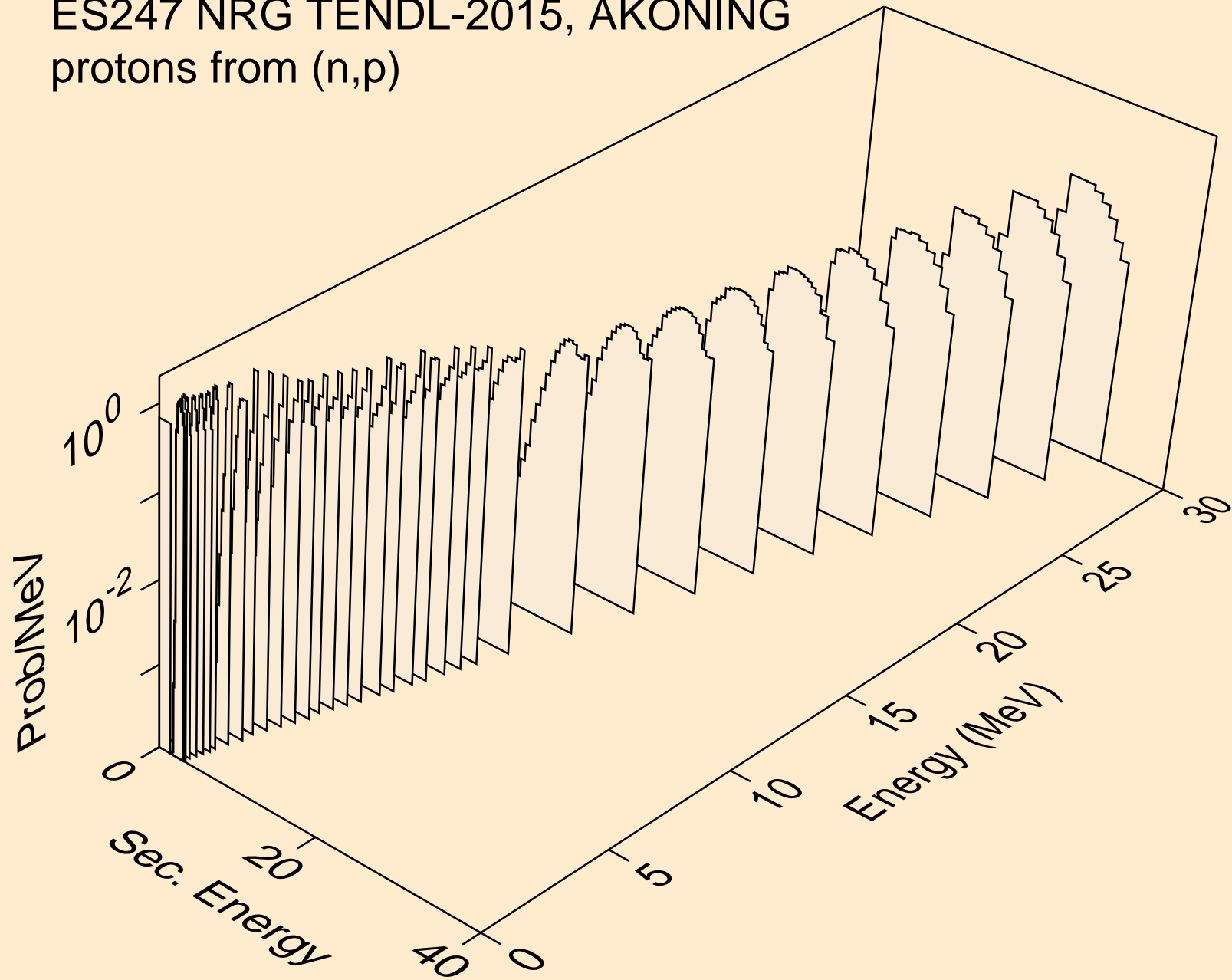
ES247 NRG TENDL-2015, AKONING  
protons from (n,2np)



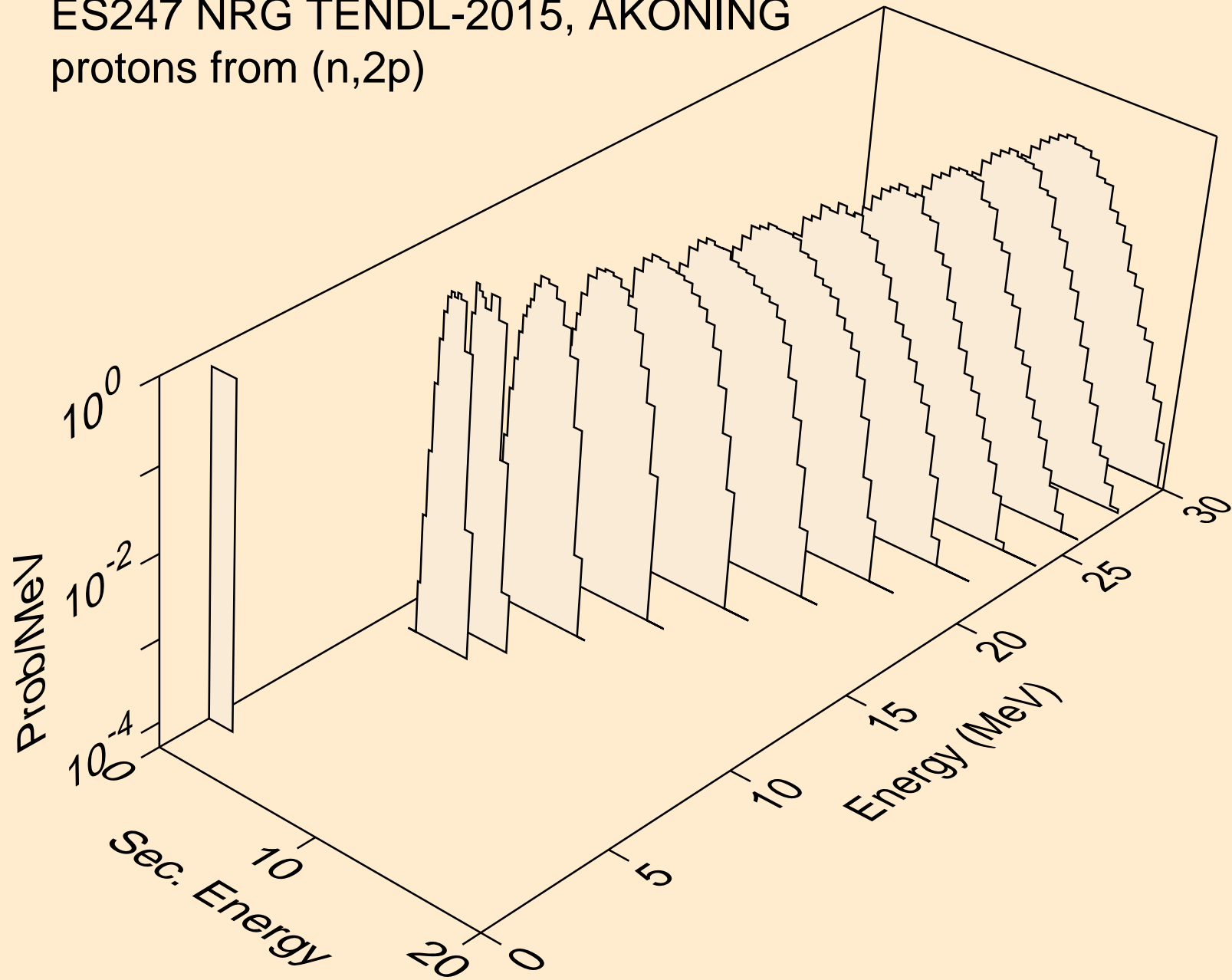
ES247 NRG TENDL-2015, AKONING  
protons from (n,npa)



ES247 NRG TENDL-2015, AKONING  
protons from (n,p)

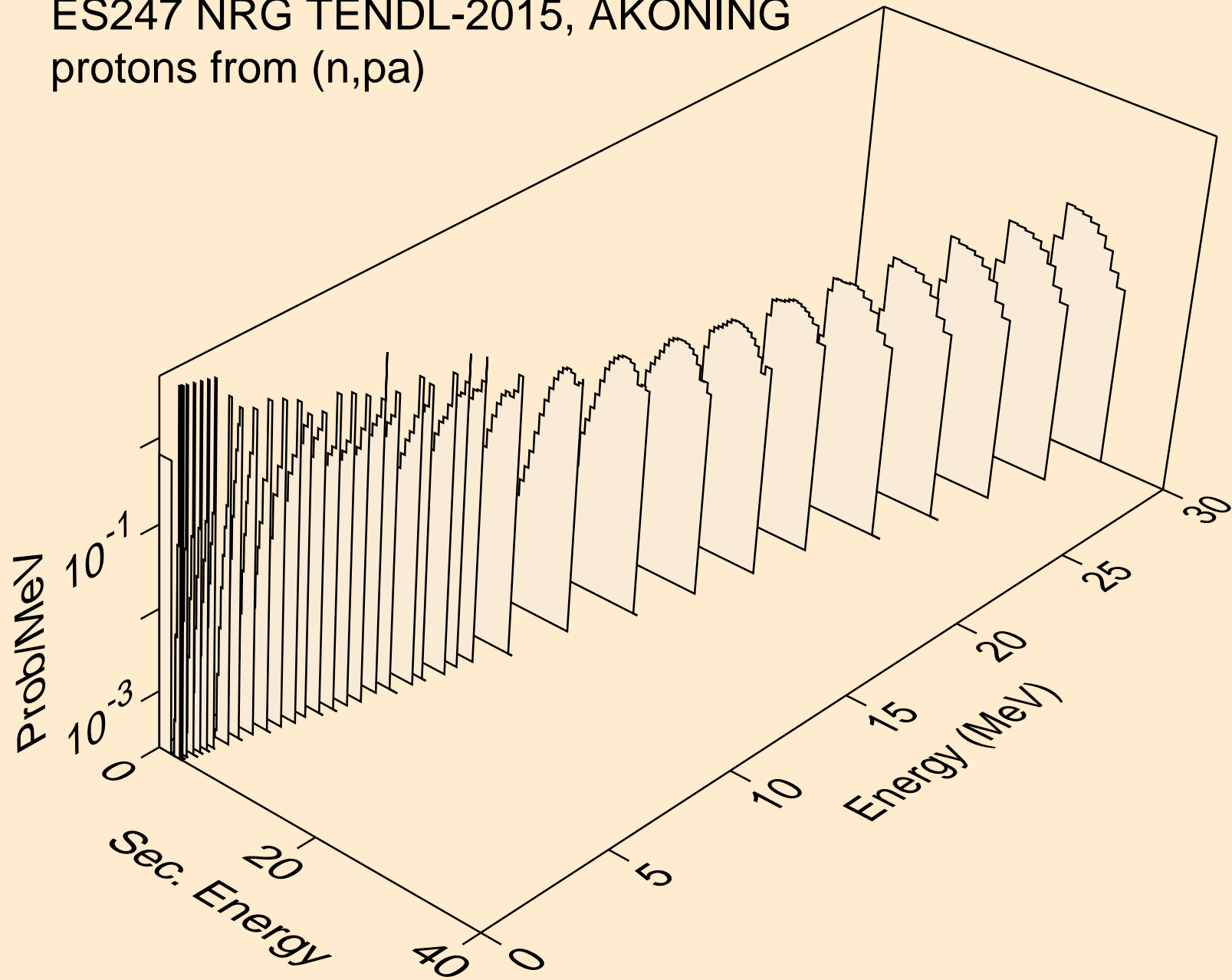


ES247 NRG TENDL-2015, AKONING  
protons from (n,2p)

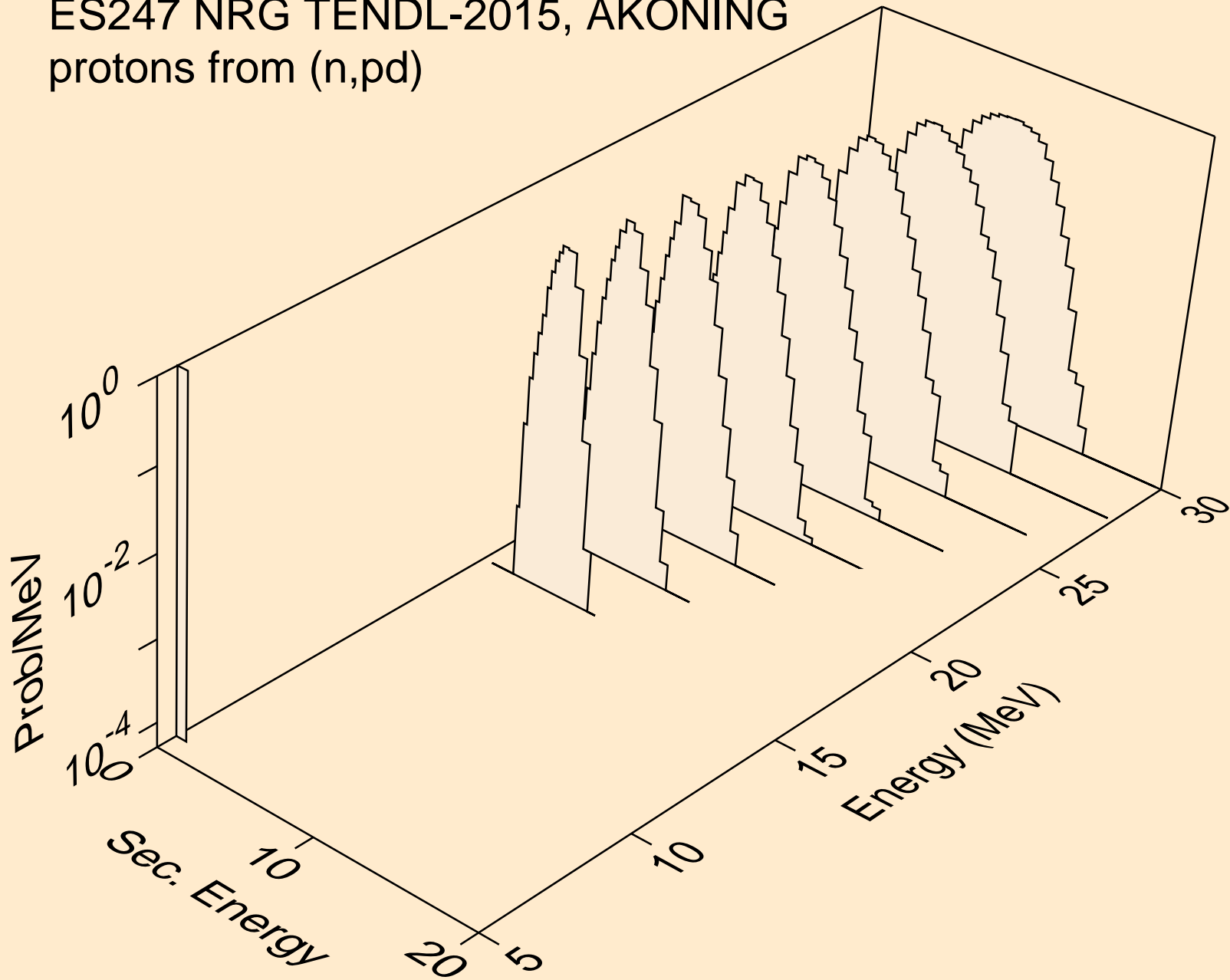




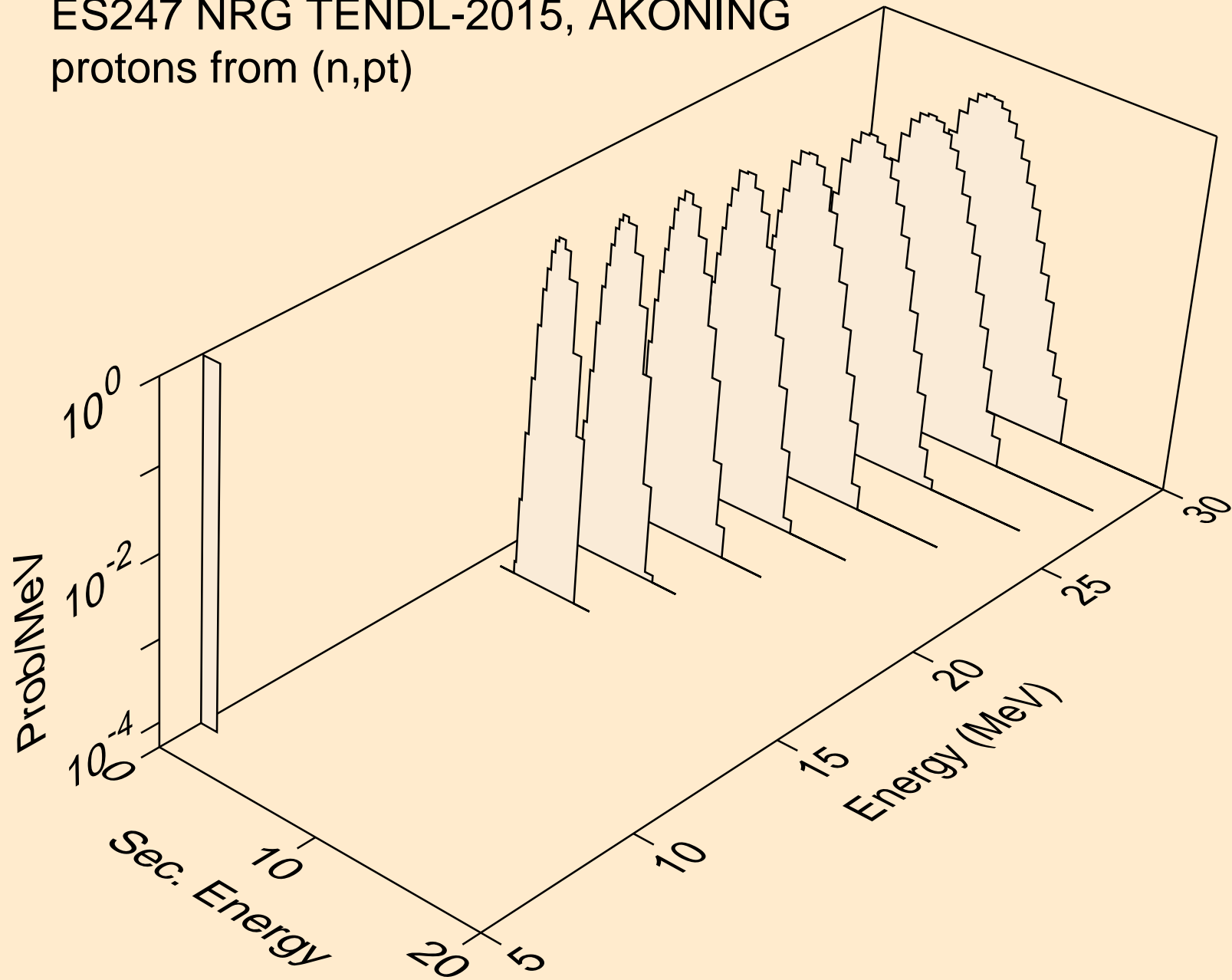
ES247 NRG TENDL-2015, AKONING  
protons from (n,pa)



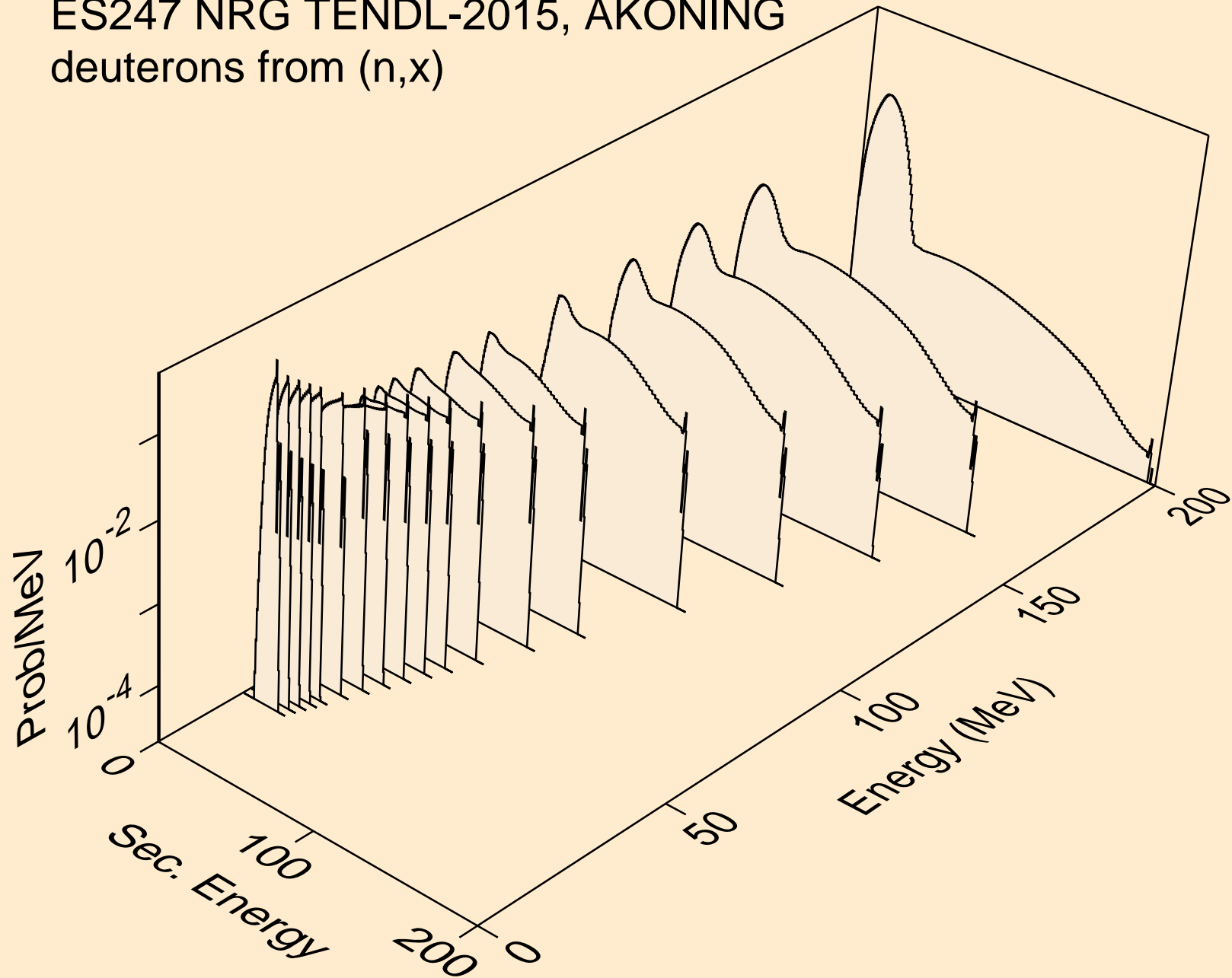
ES247 NRG TENDL-2015, AKONING  
protons from (n,pd)



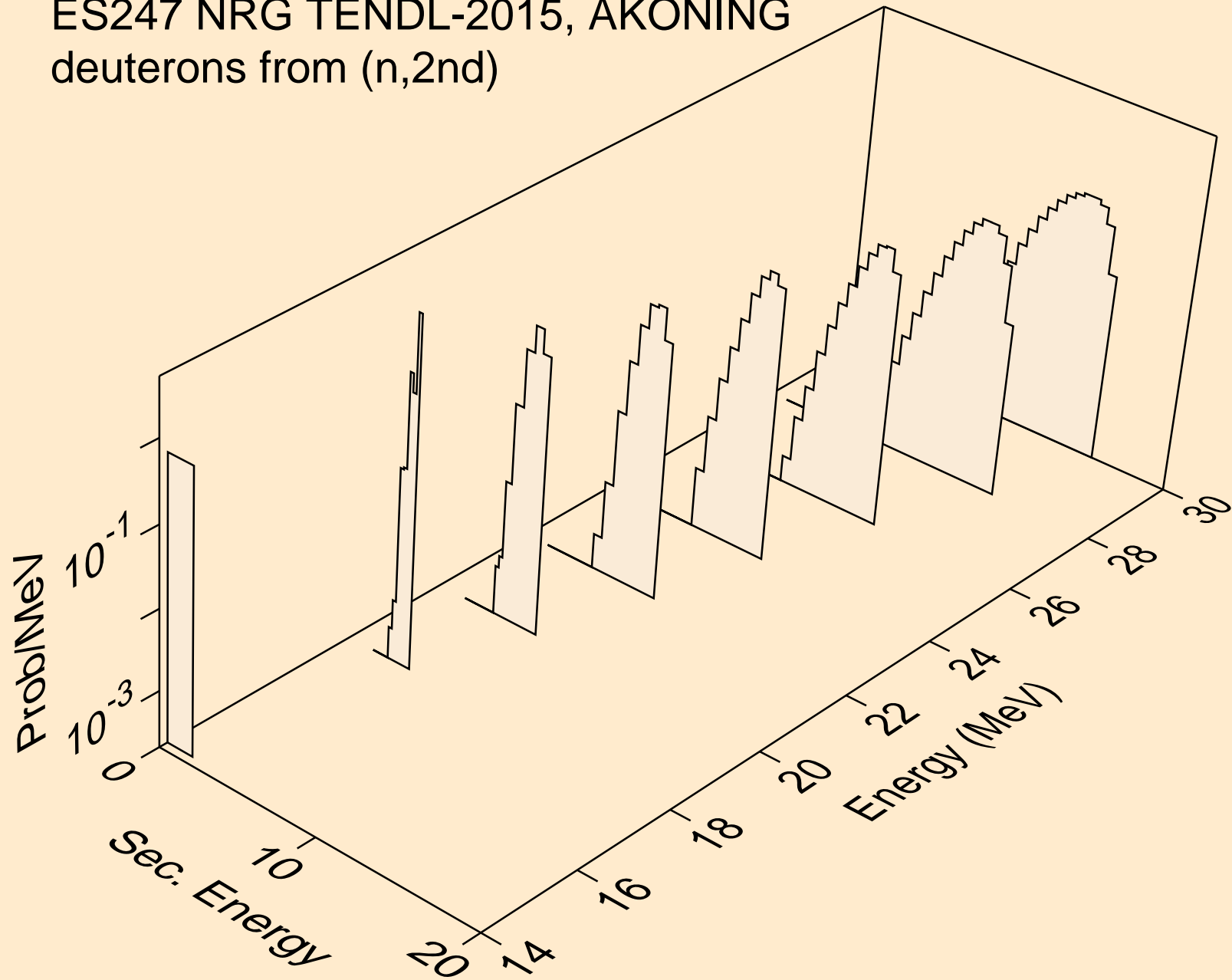
ES247 NRG TENDL-2015, AKONING  
protons from (n,pt)



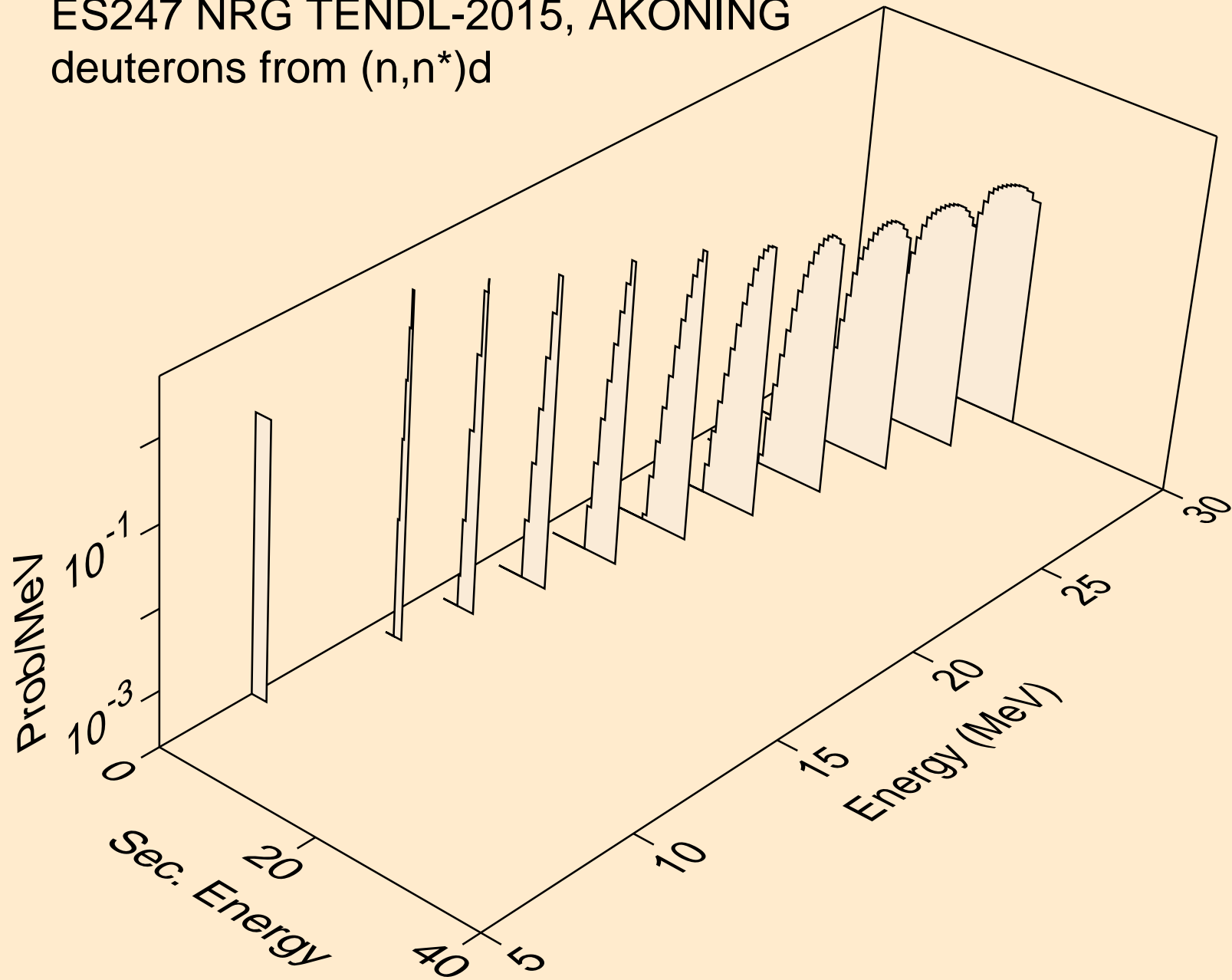
ES247 NRG TENDL-2015, AKONING  
deuterons from (n,x)



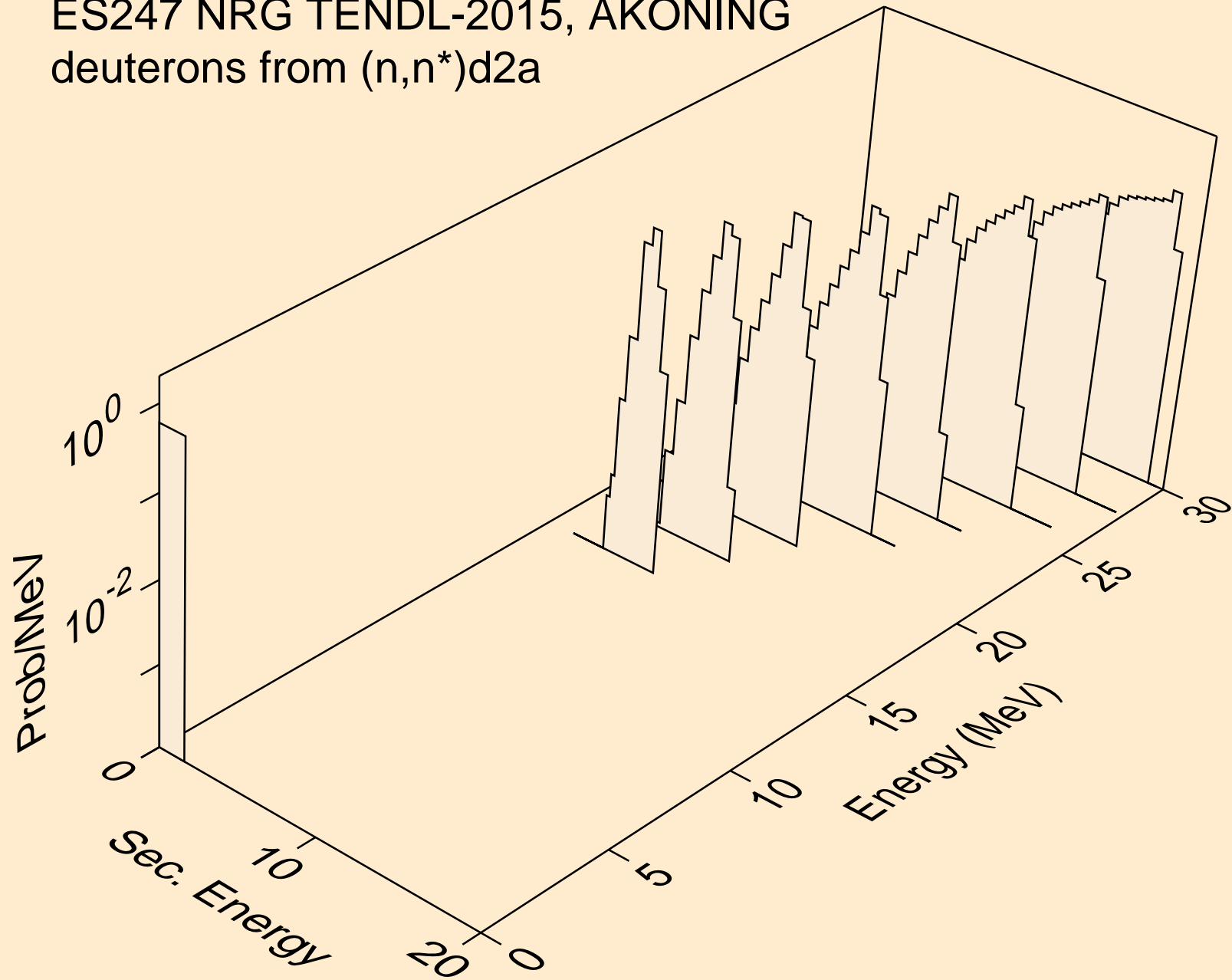
ES247 NRG TENDL-2015, AKONING  
deuterons from (n,2nd)



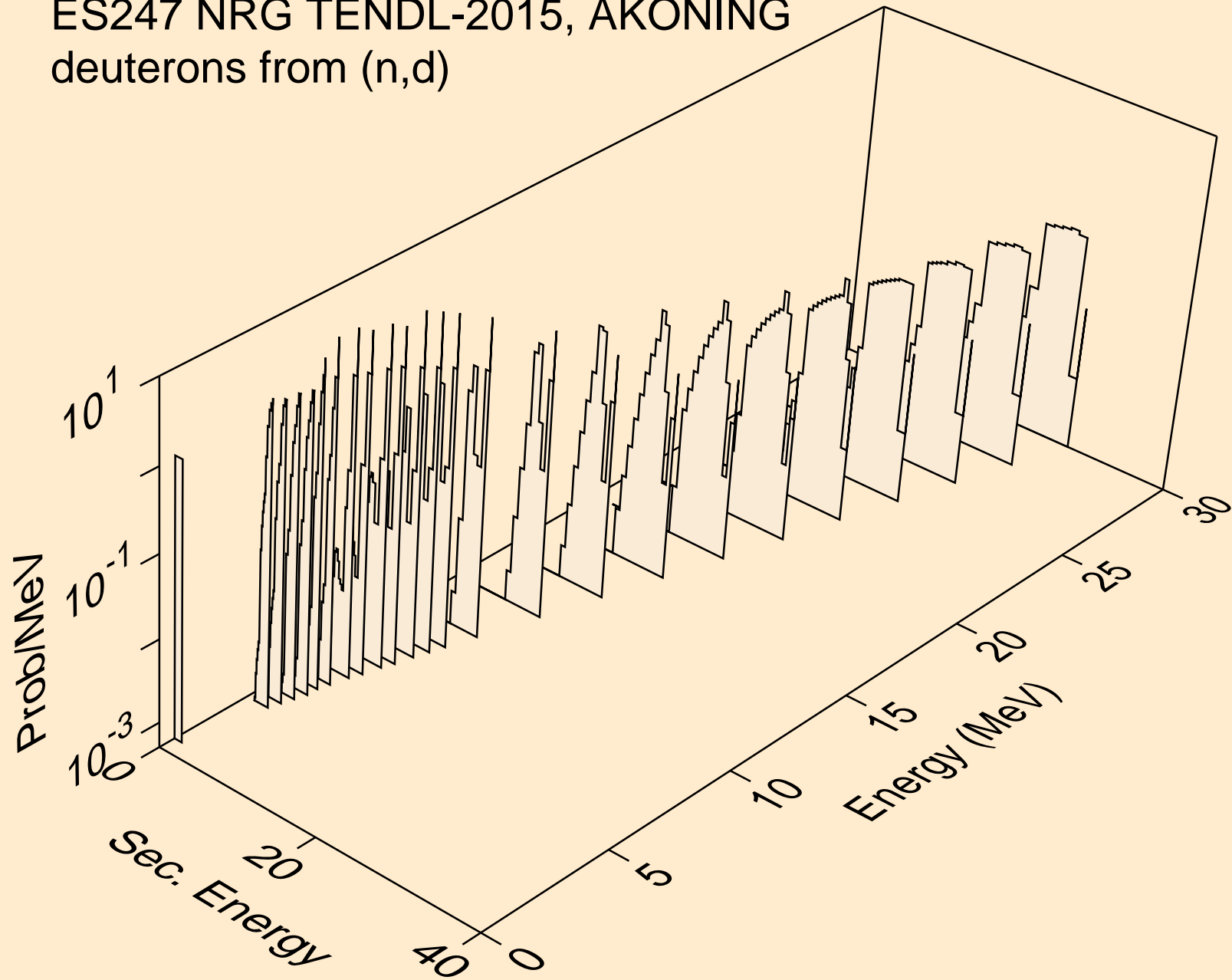
ES247 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d



ES247 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d2a

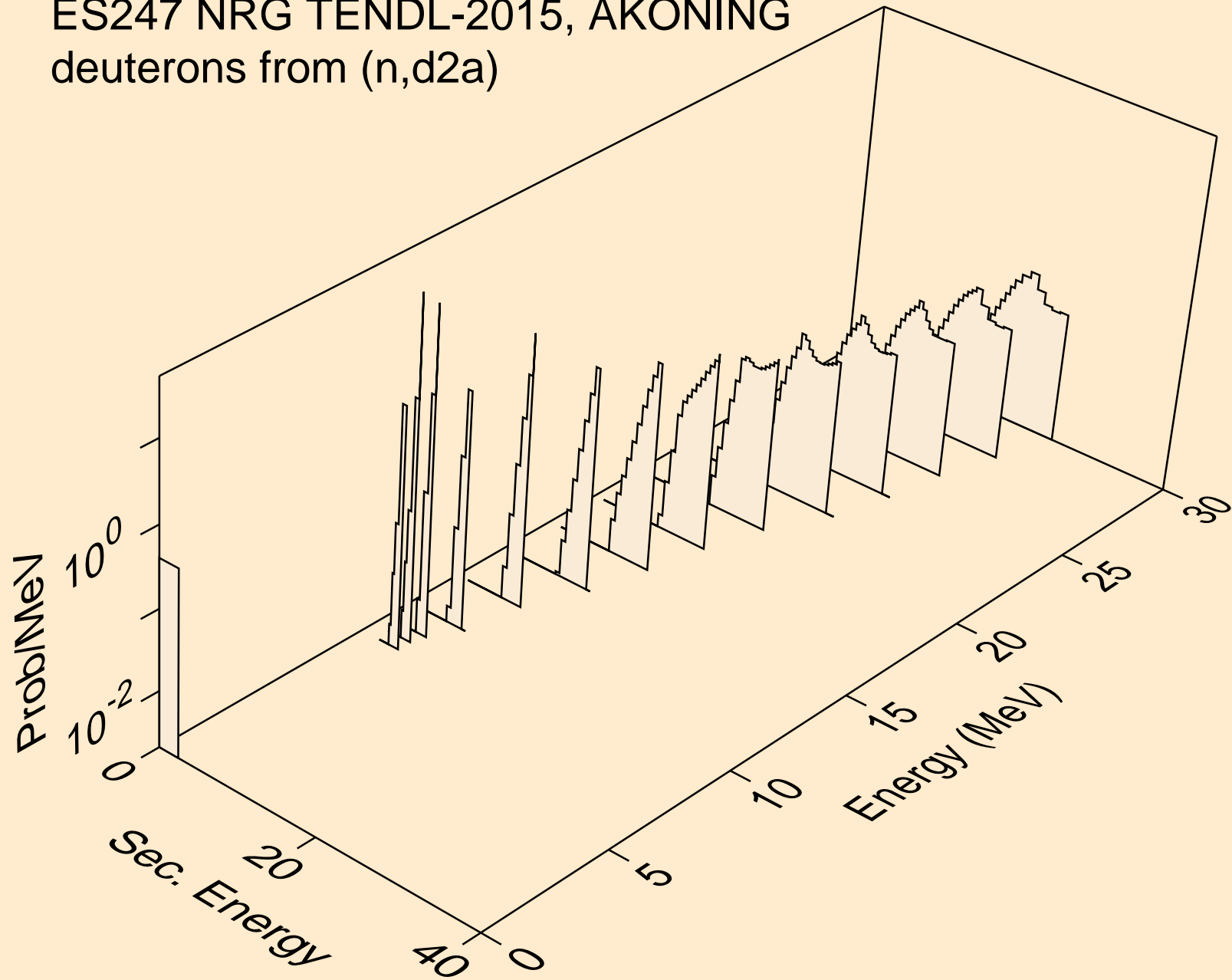


ES247 NRG TENDL-2015, AKONING  
deuterons from (n,d)

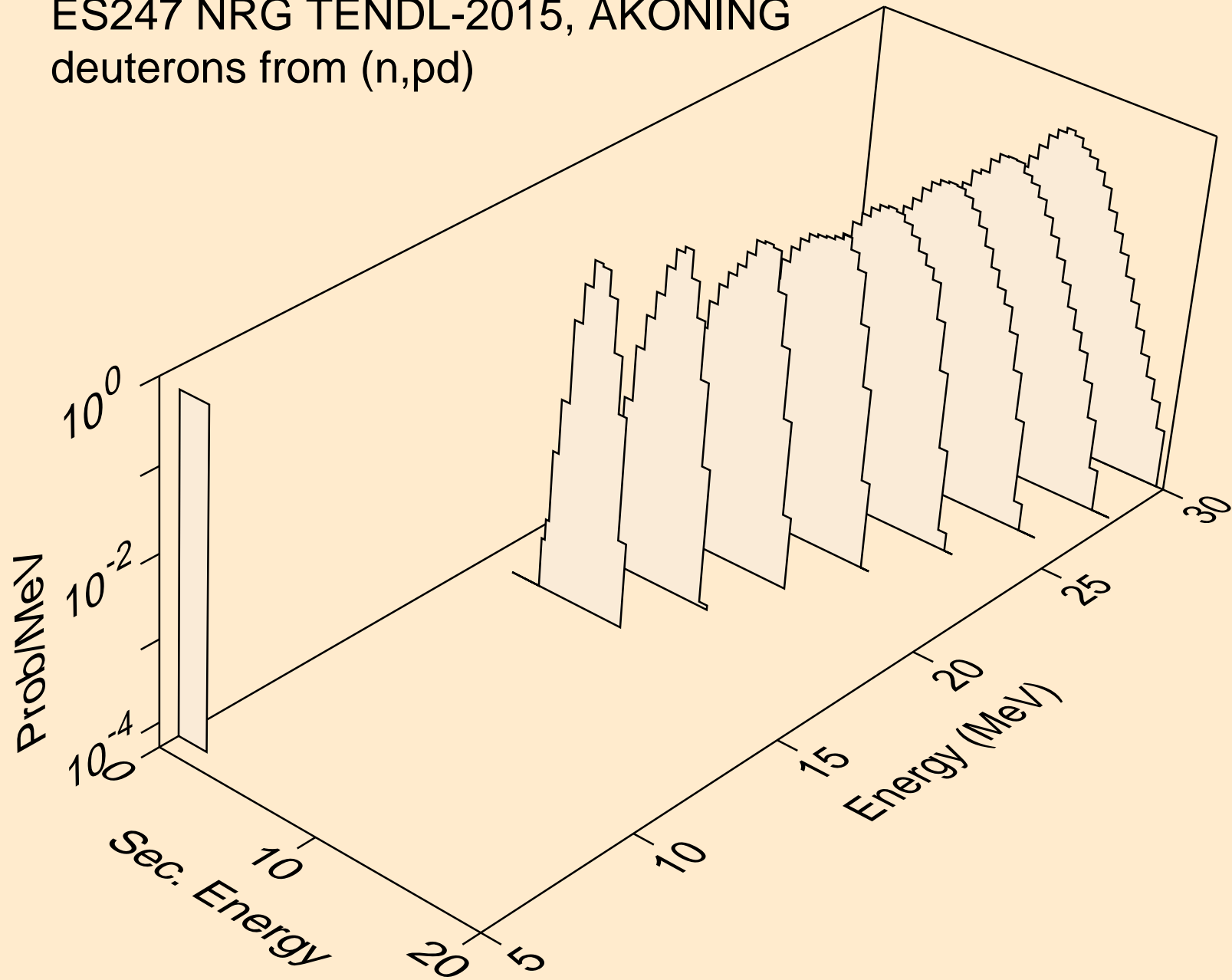




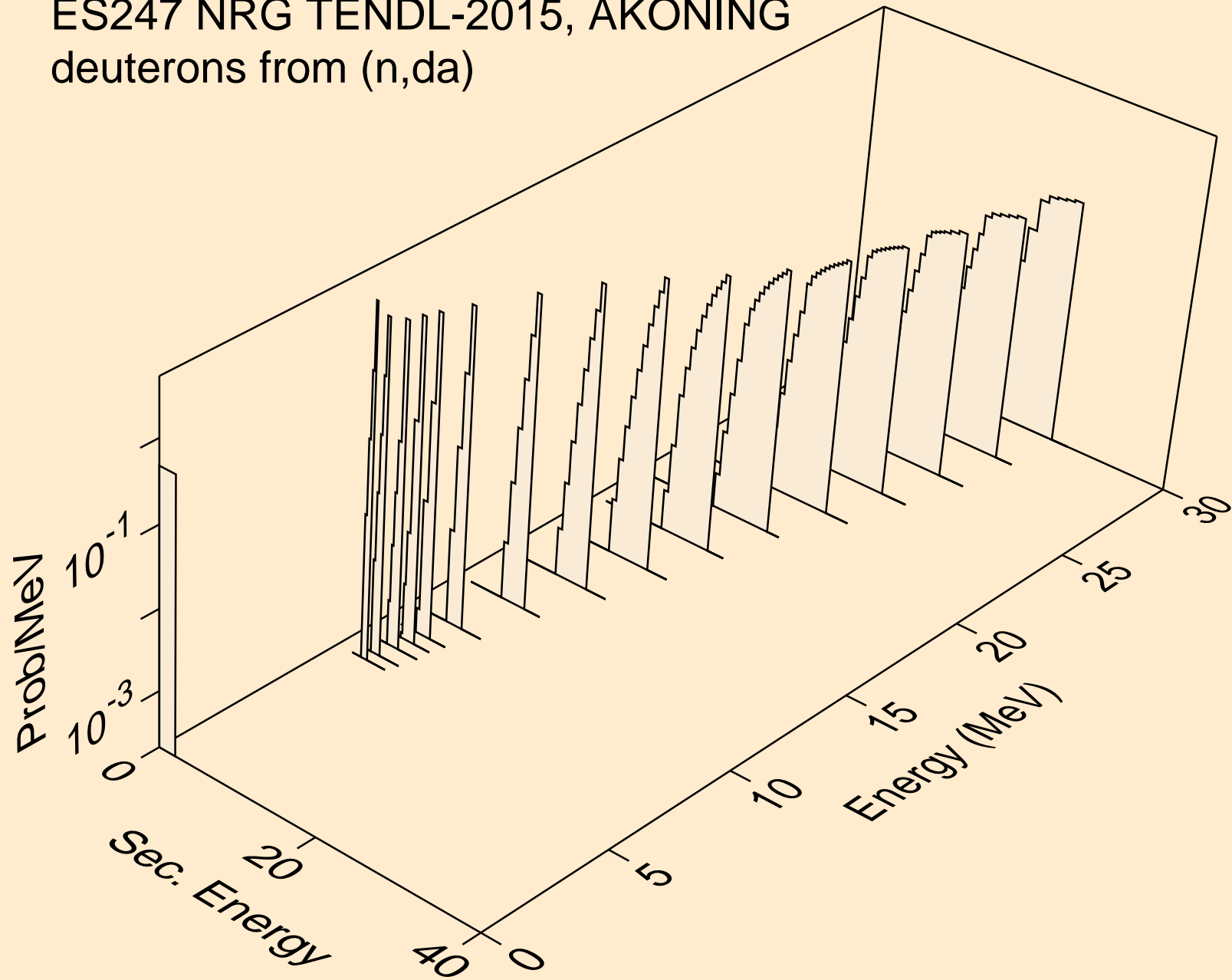
ES247 NRG TENDL-2015, AKONING  
deuterons from (n,d2a)



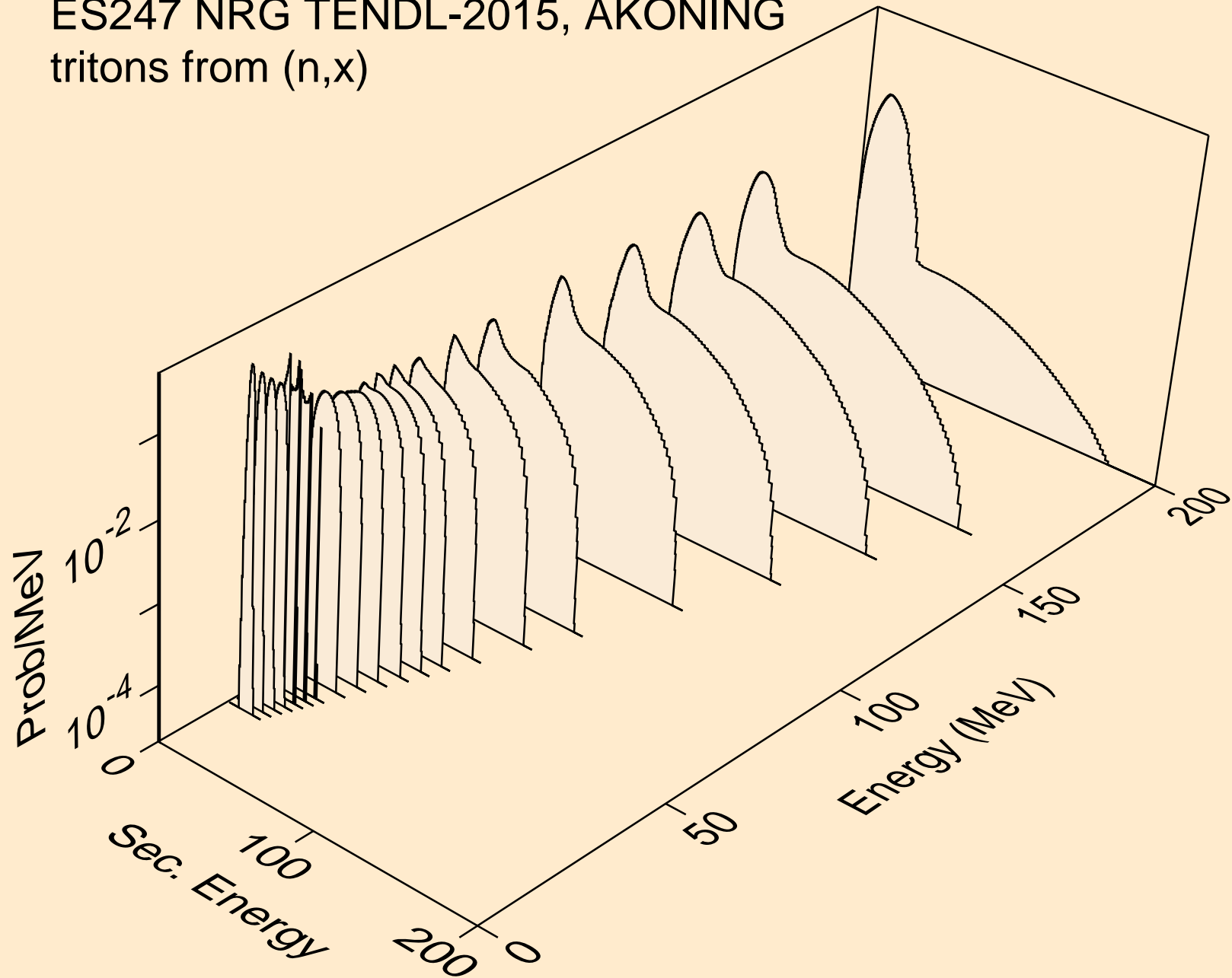
ES247 NRG TENDL-2015, AKONING  
deuterons from (n,pd)



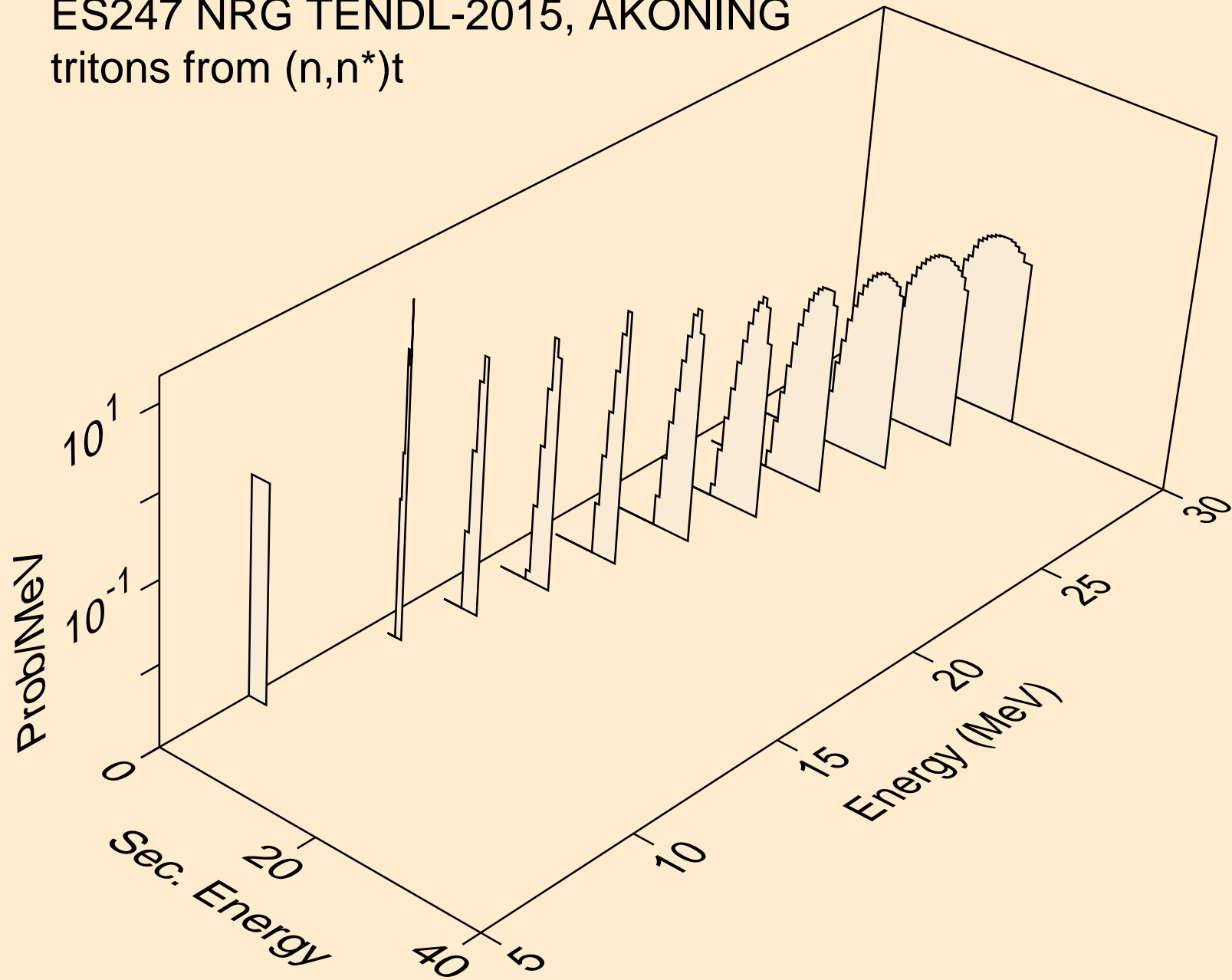
ES247 NRG TENDL-2015, AKONING  
deuterons from (n,da)



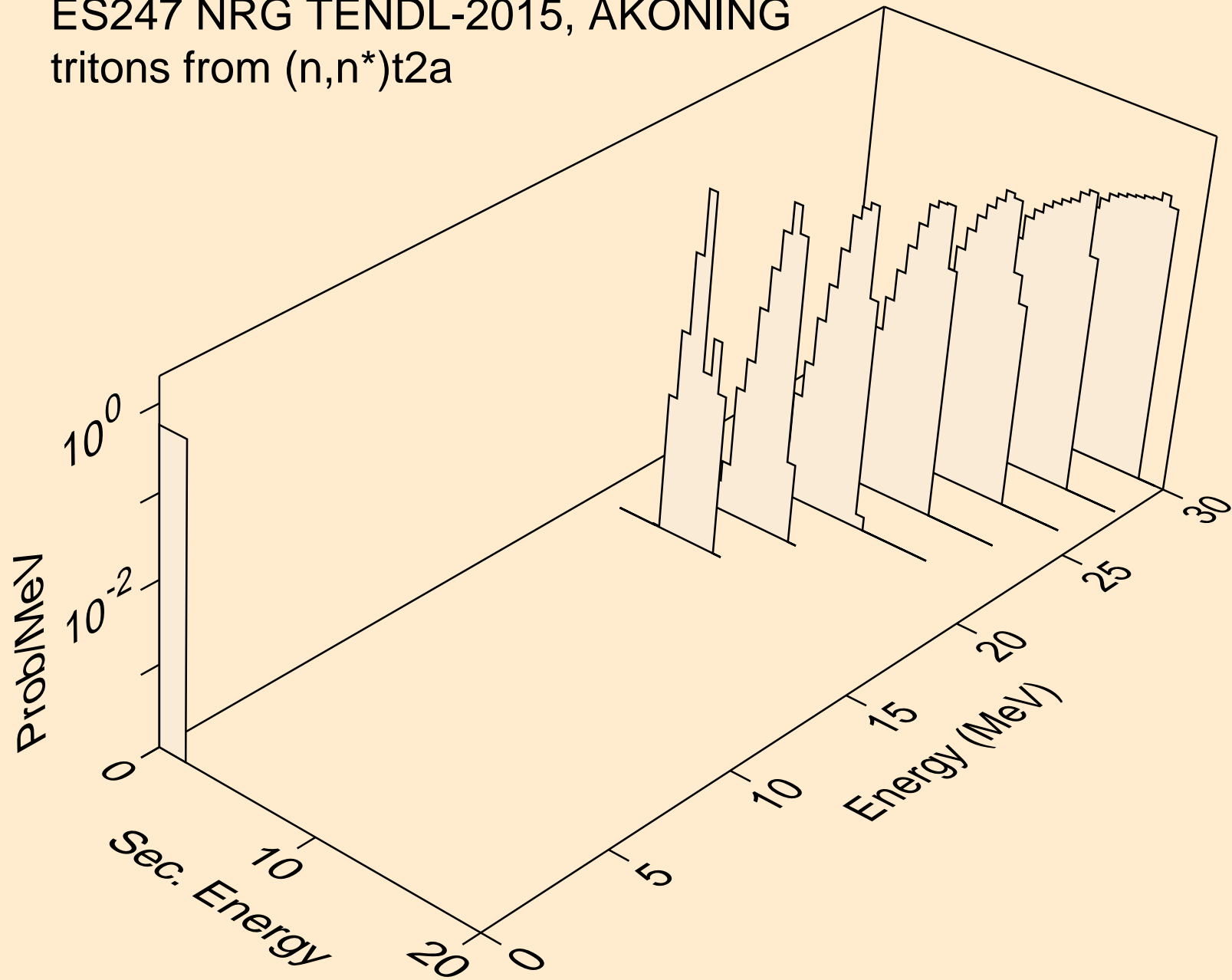
ES247 NRG TENDL-2015, AKONING  
tritons from (n,x)



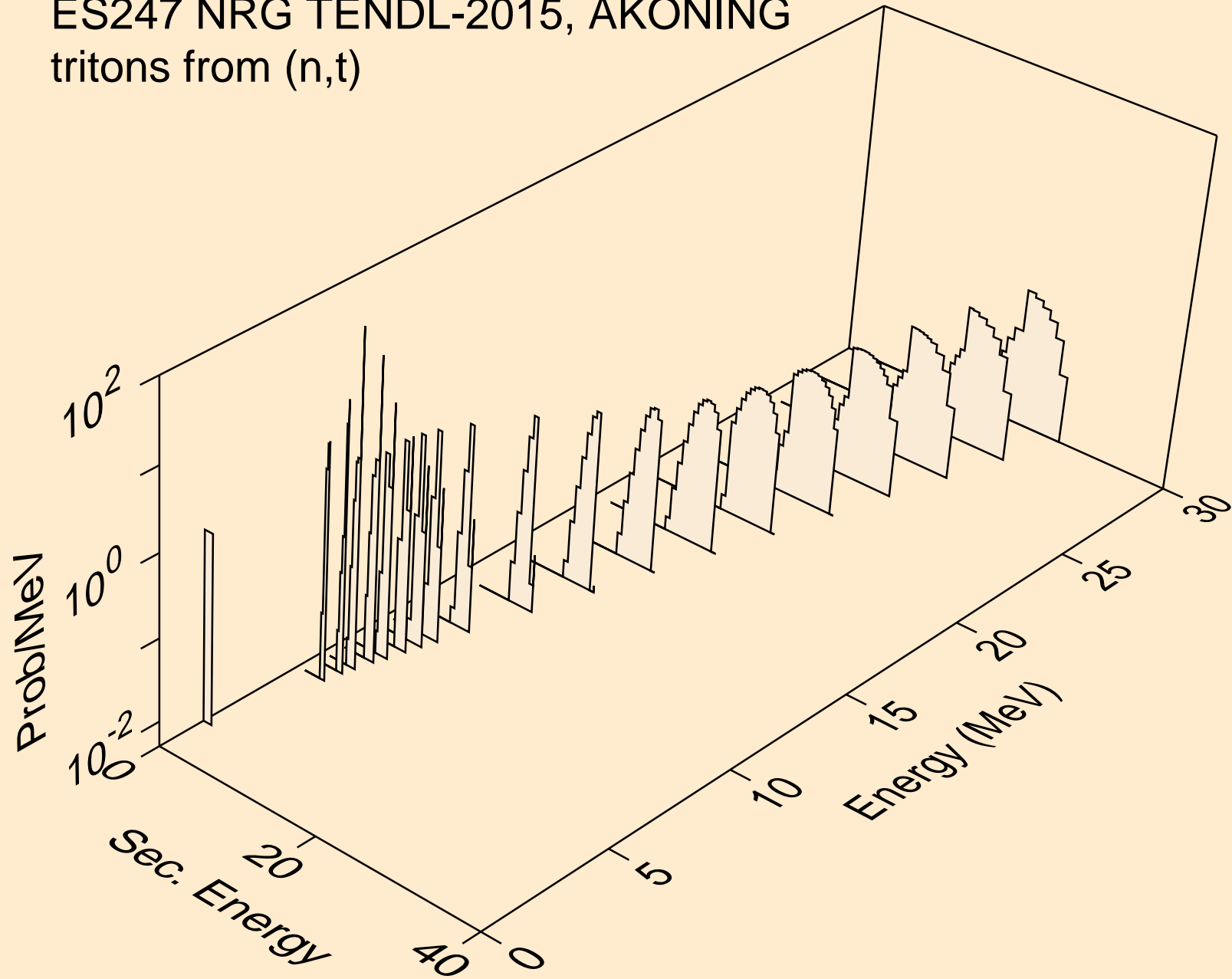
ES247 NRG TENDL-2015, AKONING  
tritons from (n,n\*)t



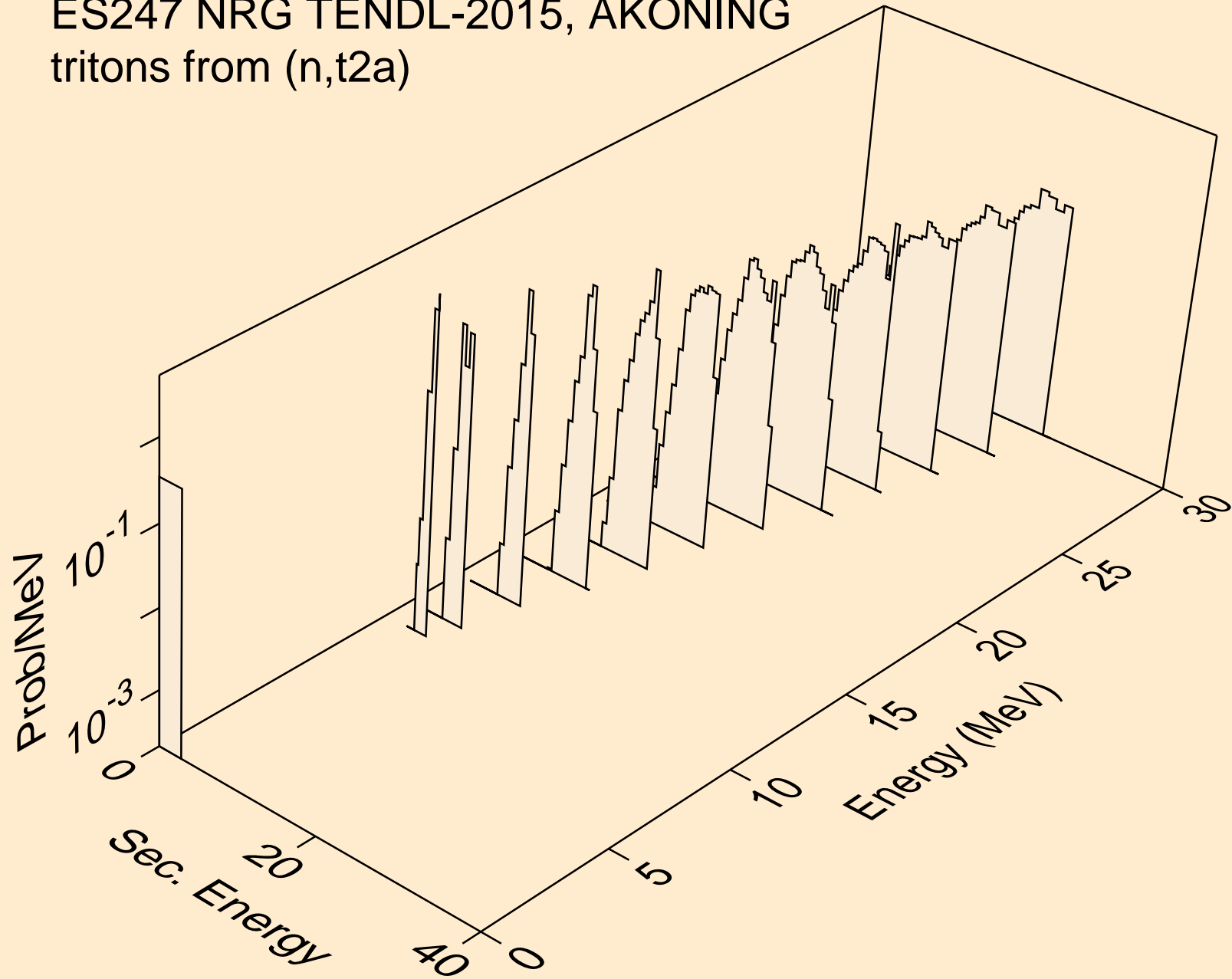
ES247 NRG TENDL-2015, AKONING  
tritons from (n,n\*)t2a



ES247 NRG TENDL-2015, AKONING  
tritons from (n,t)

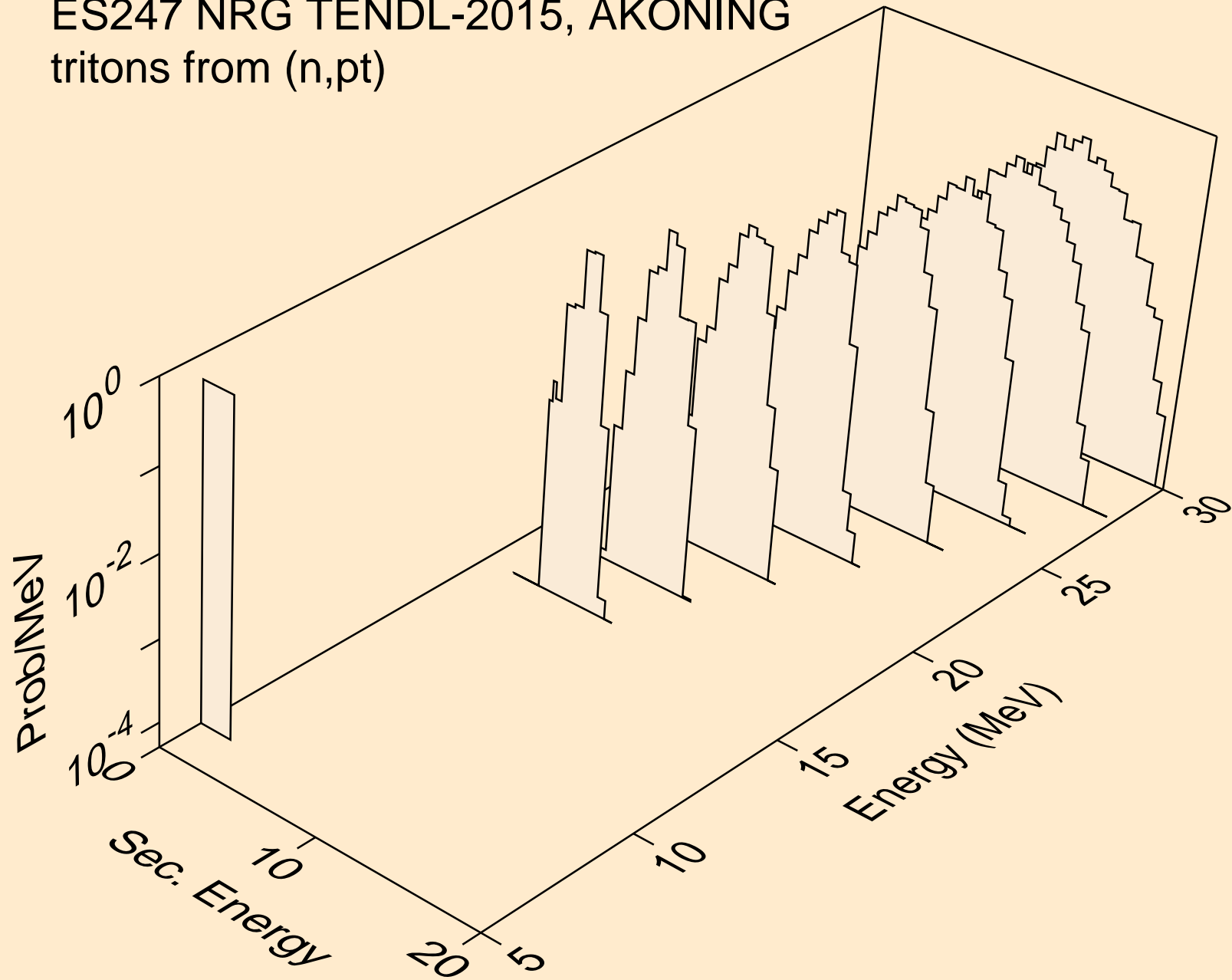


ES247 NRG TENDL-2015, AKONING  
tritons from (n,t2a)

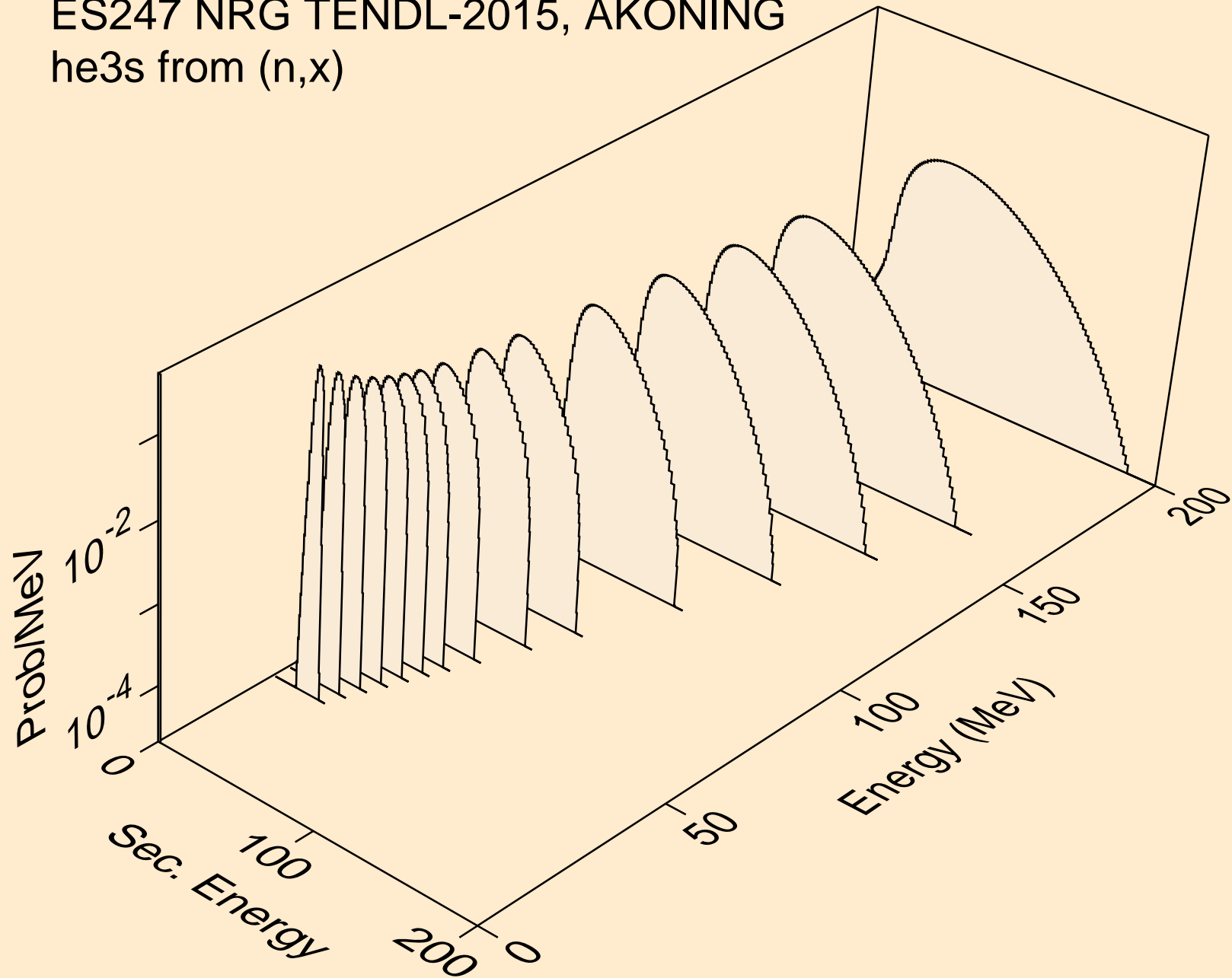




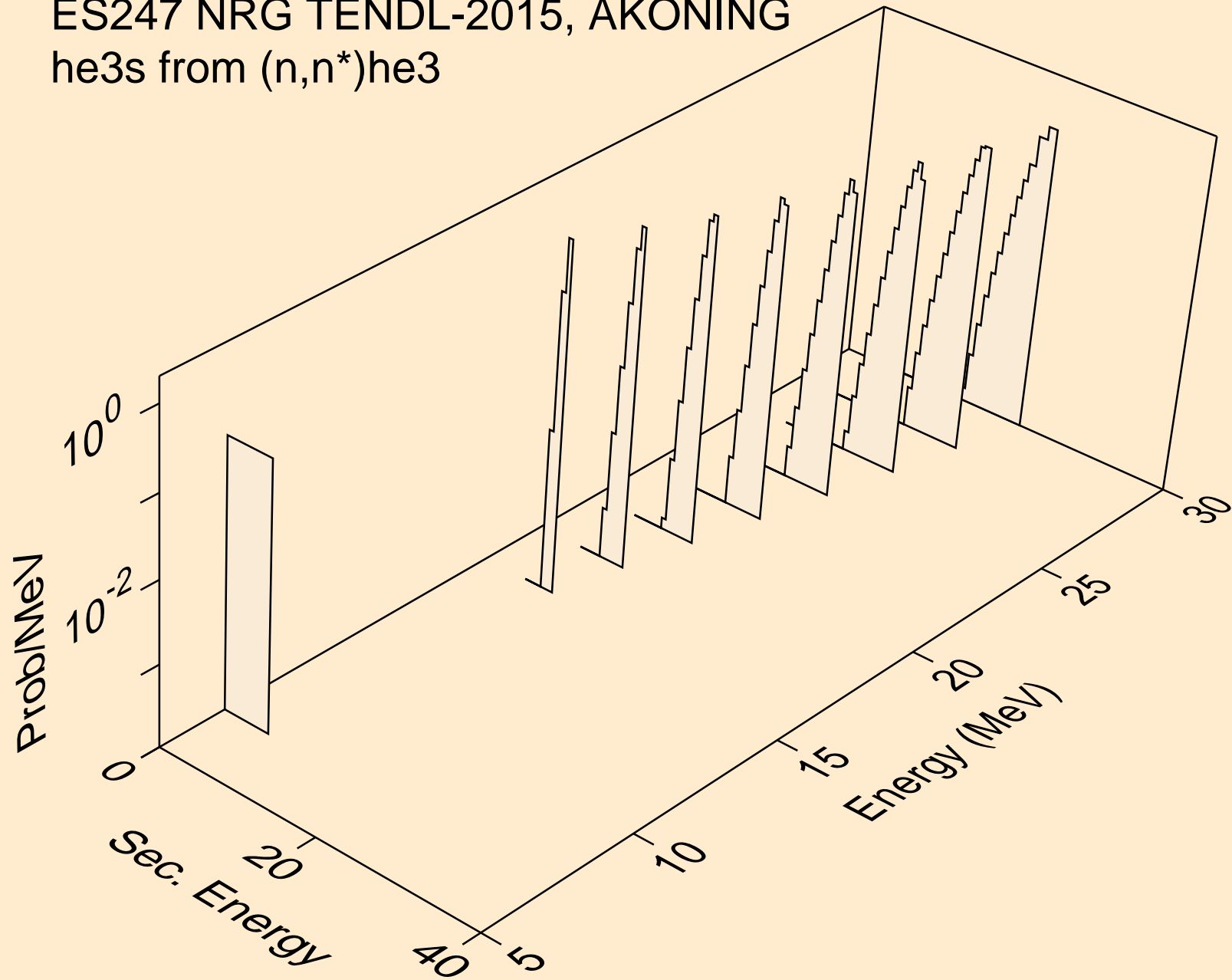
ES247 NRG TENDL-2015, AKONING  
tritons from (n,pt)



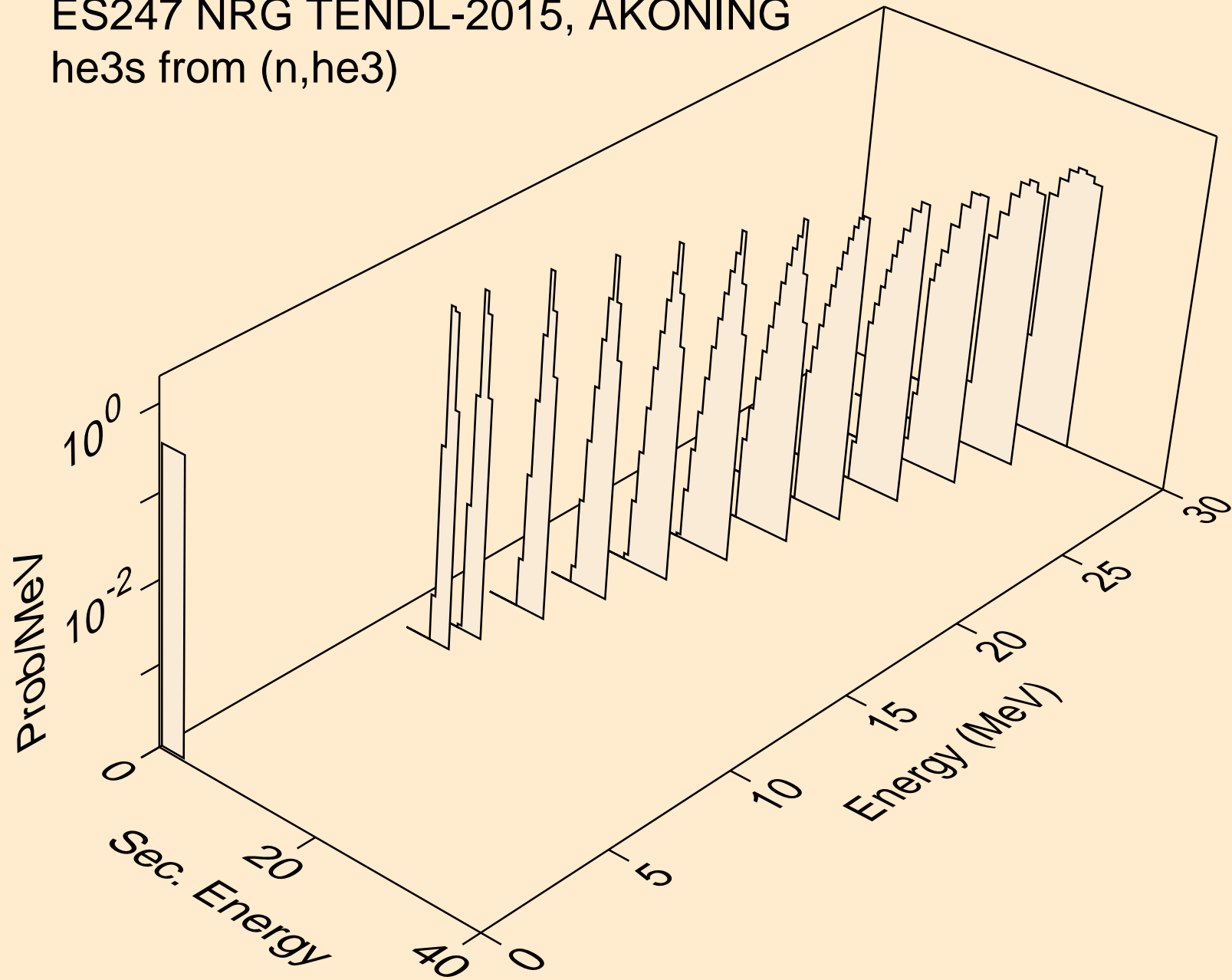
ES247 NRG TENDL-2015, AKONING  
he3s from (n,x)



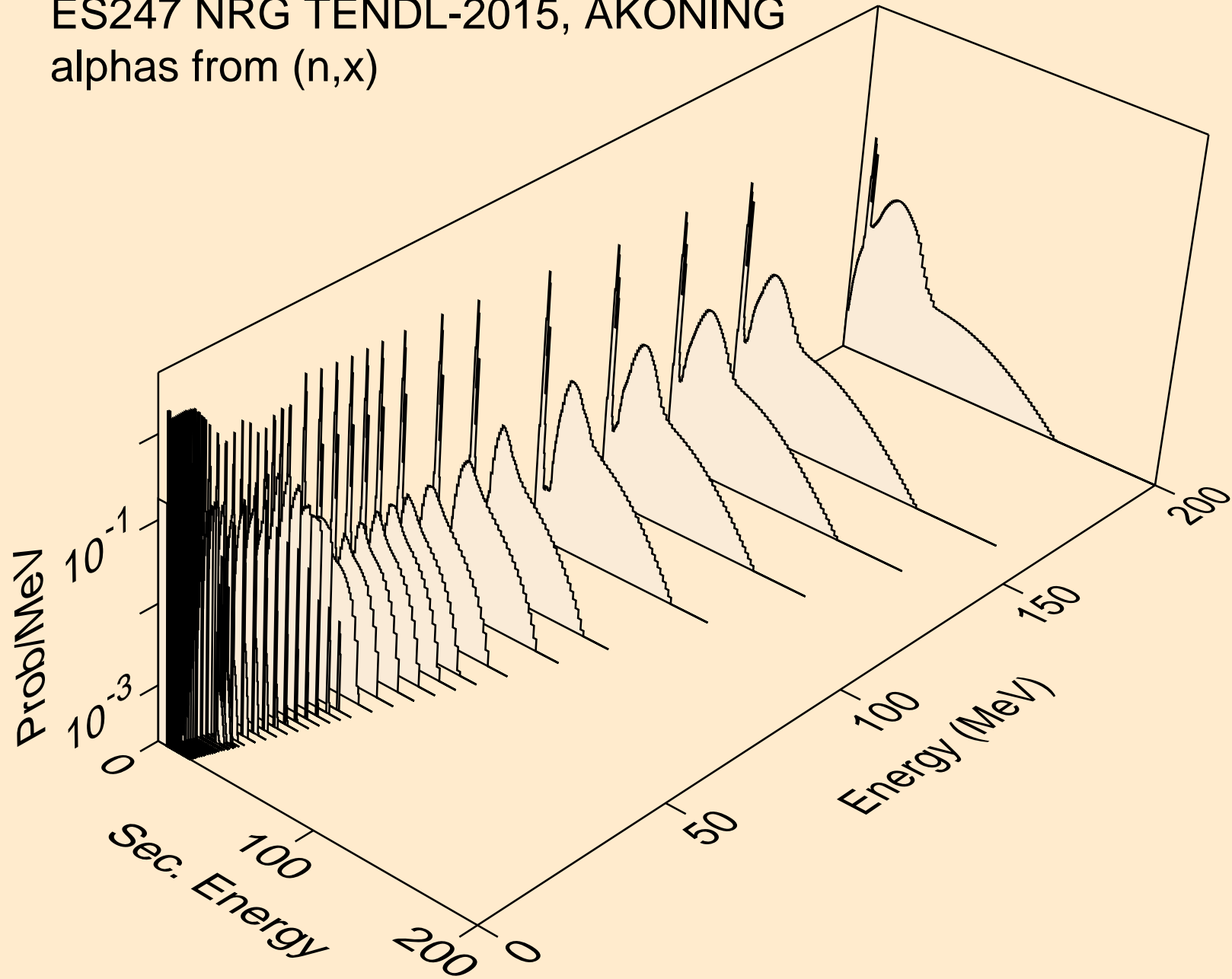
ES247 NRG TENDL-2015, AKONING  
he3s from (n,n\*)he3



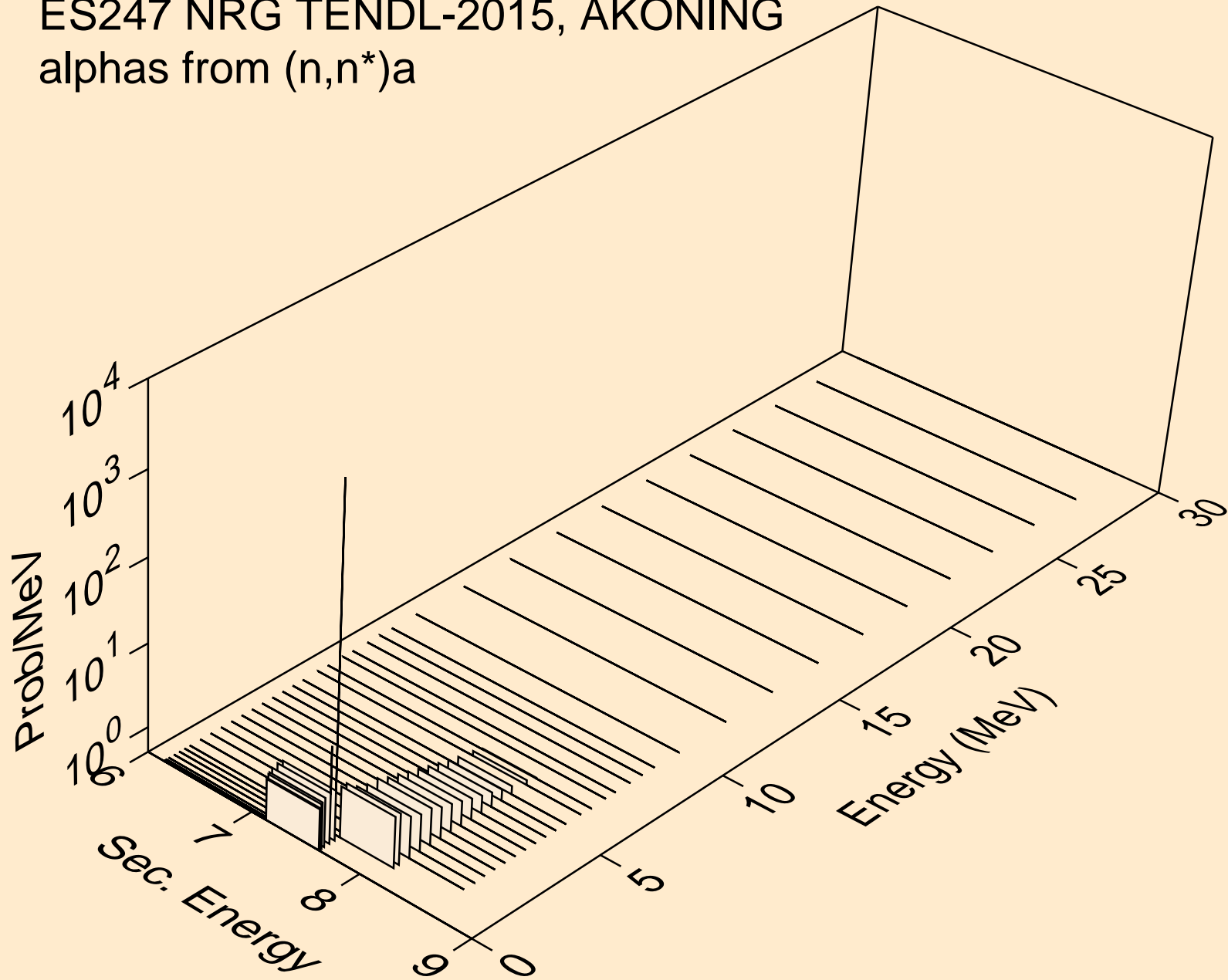
ES247 NRG TENDL-2015, AKONING  
he3s from (n,he3)



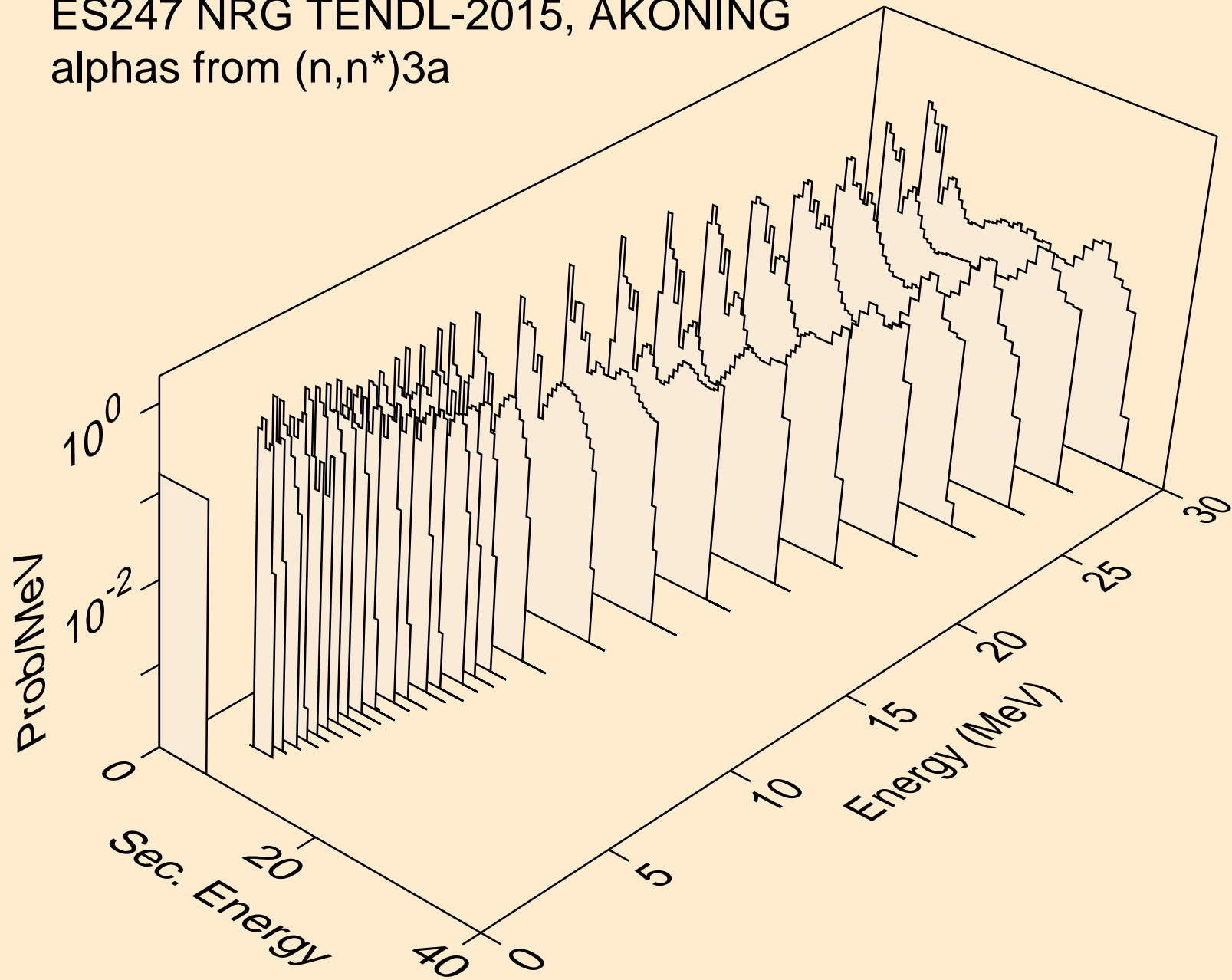
ES247 NRG TENDL-2015, AKONING  
alphas from (n,x)



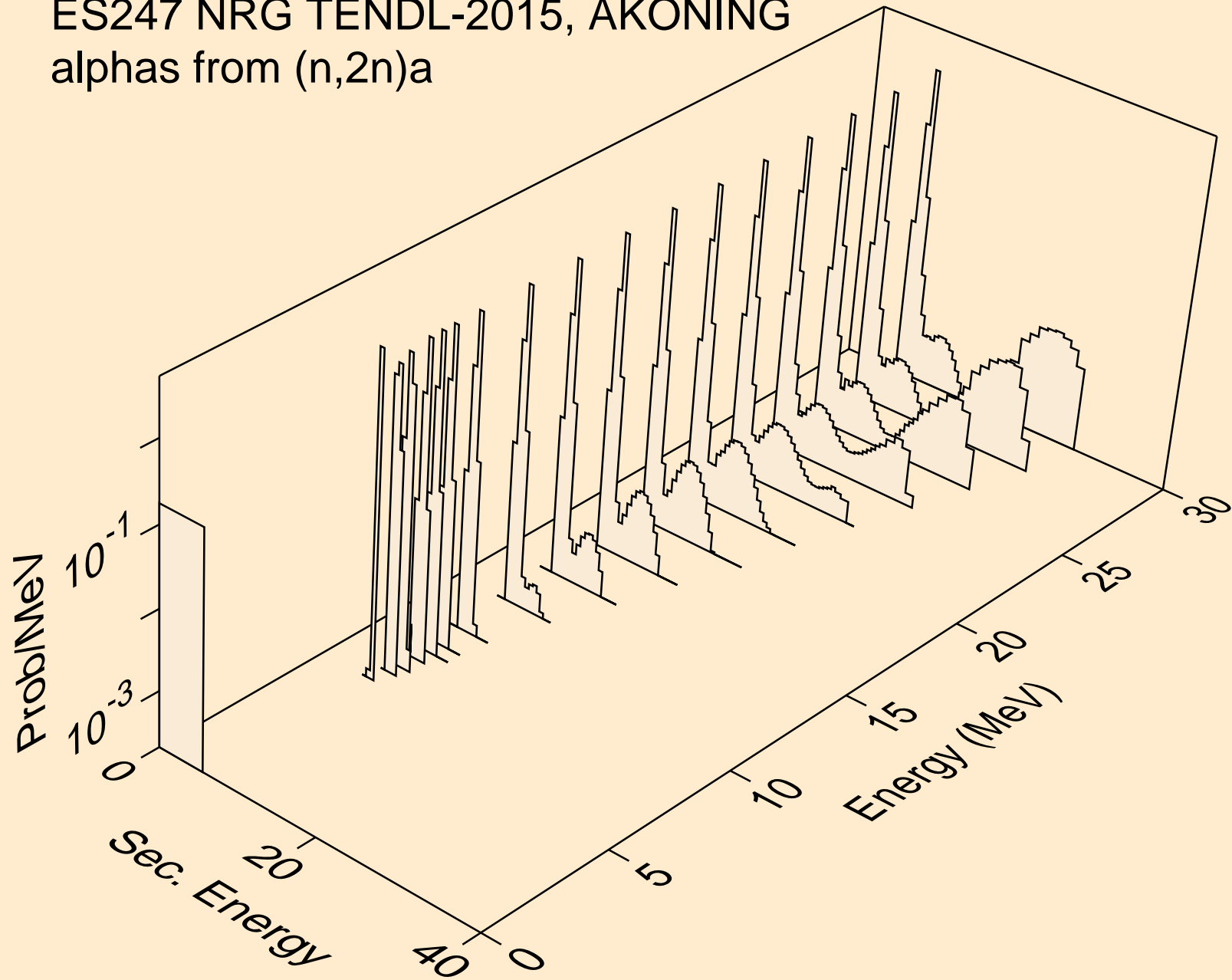
ES247 NRG TENDL-2015, AKONING  
alphas from (n,n\*)a



ES247 NRG TENDL-2015, AKONING  
alphas from (n,n\*)3a

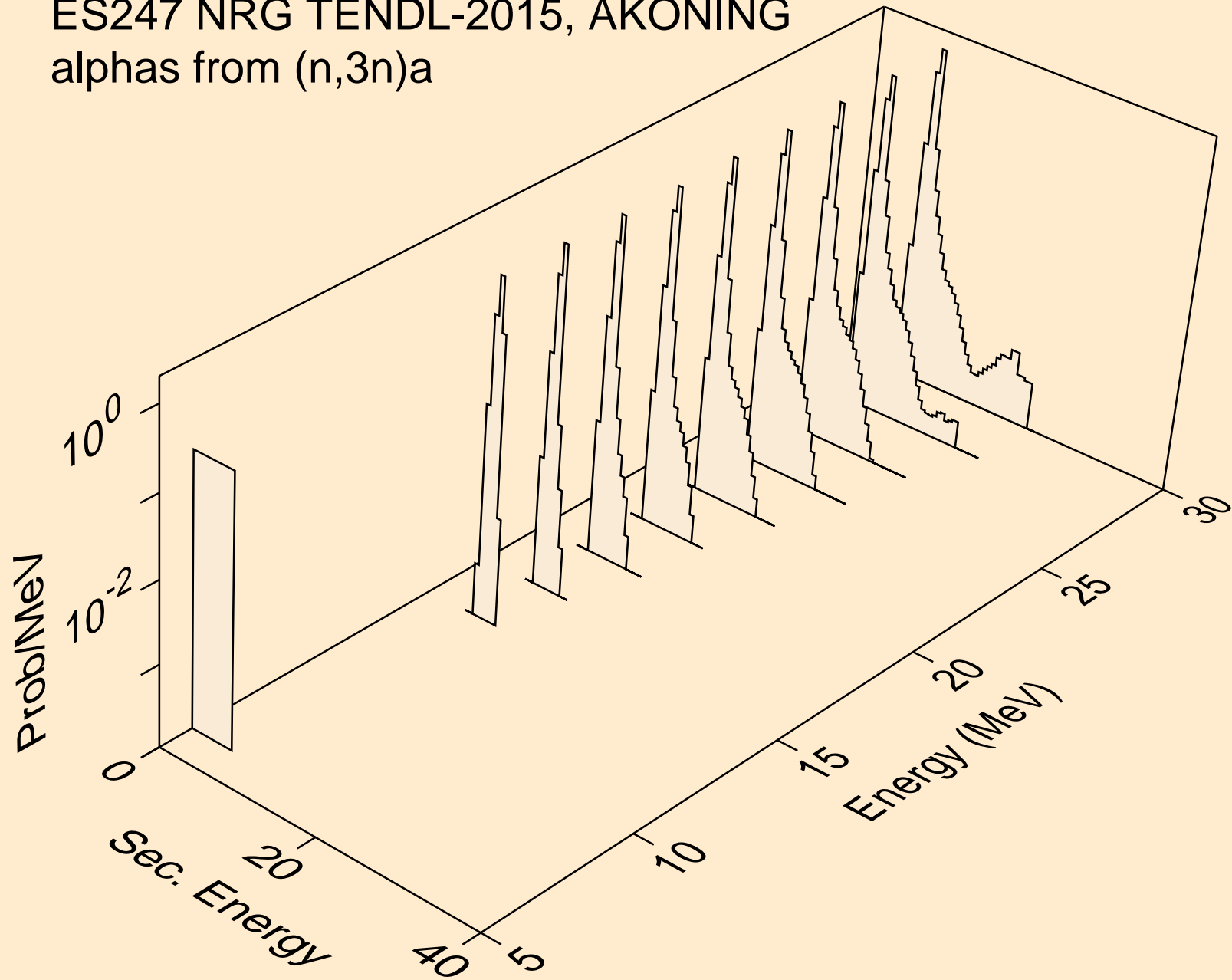


ES247 NRG TENDL-2015, AKONING  
alphas from (n,2n)a

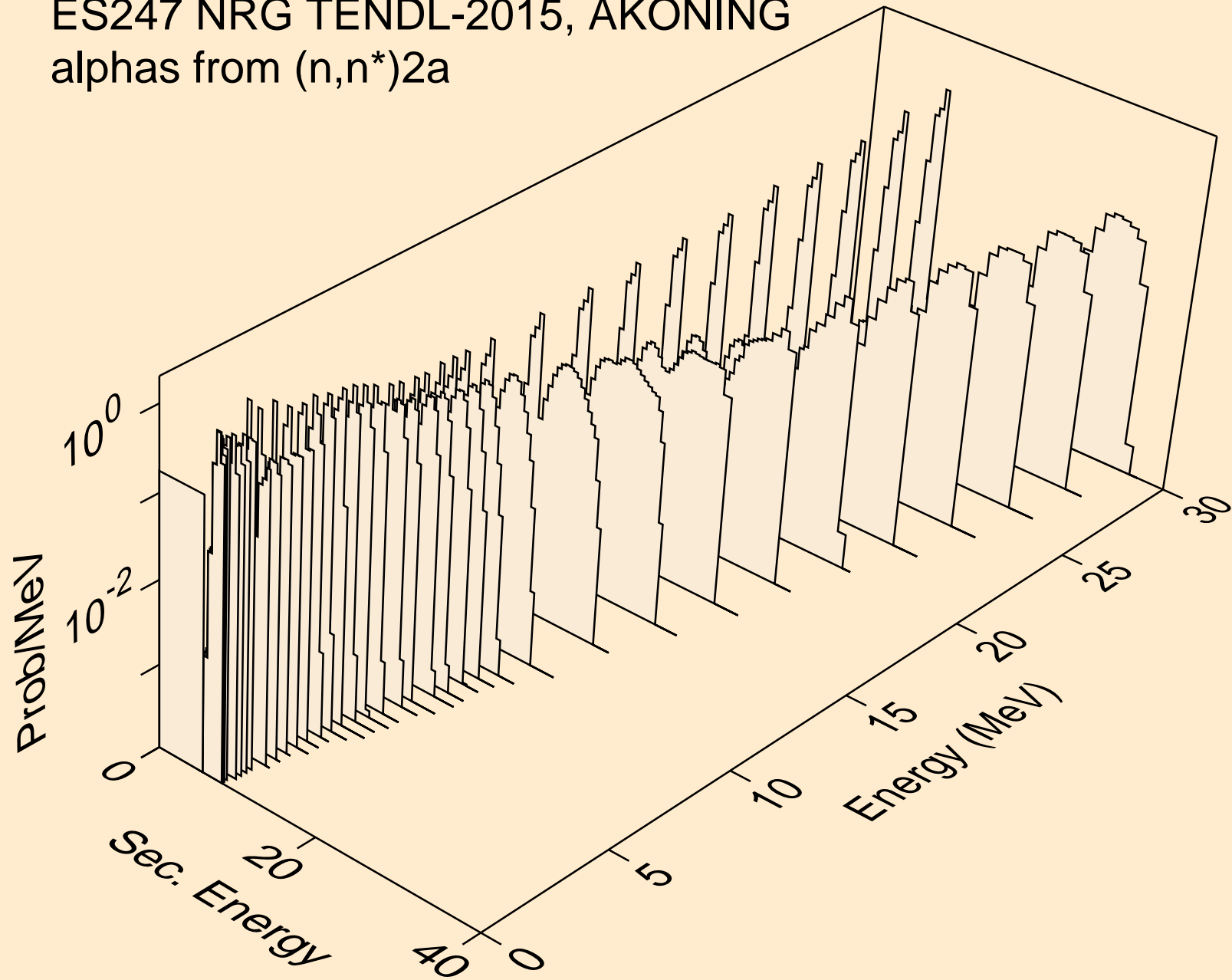




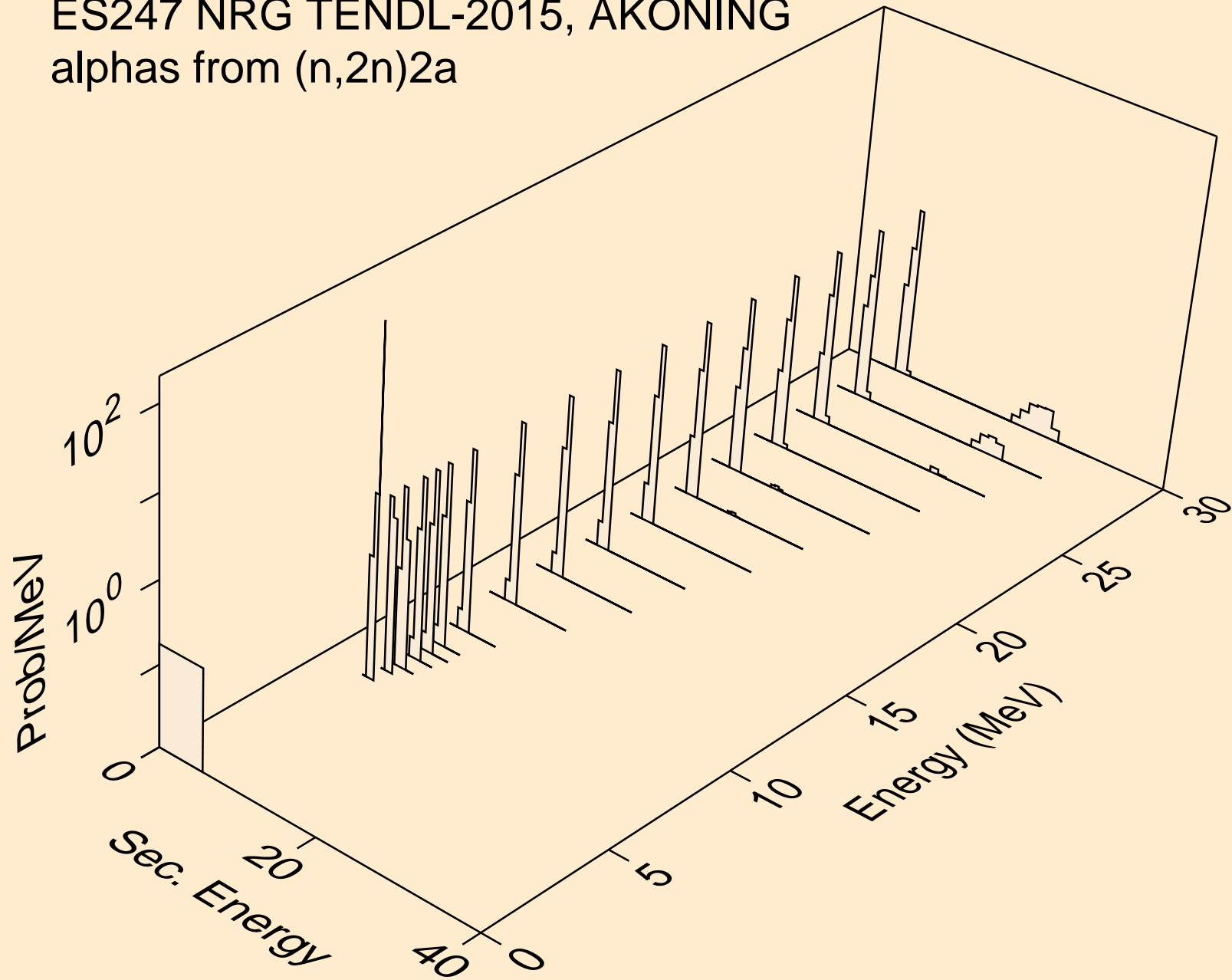
ES247 NRG TENDL-2015, AKONING  
alphas from (n,3n)a



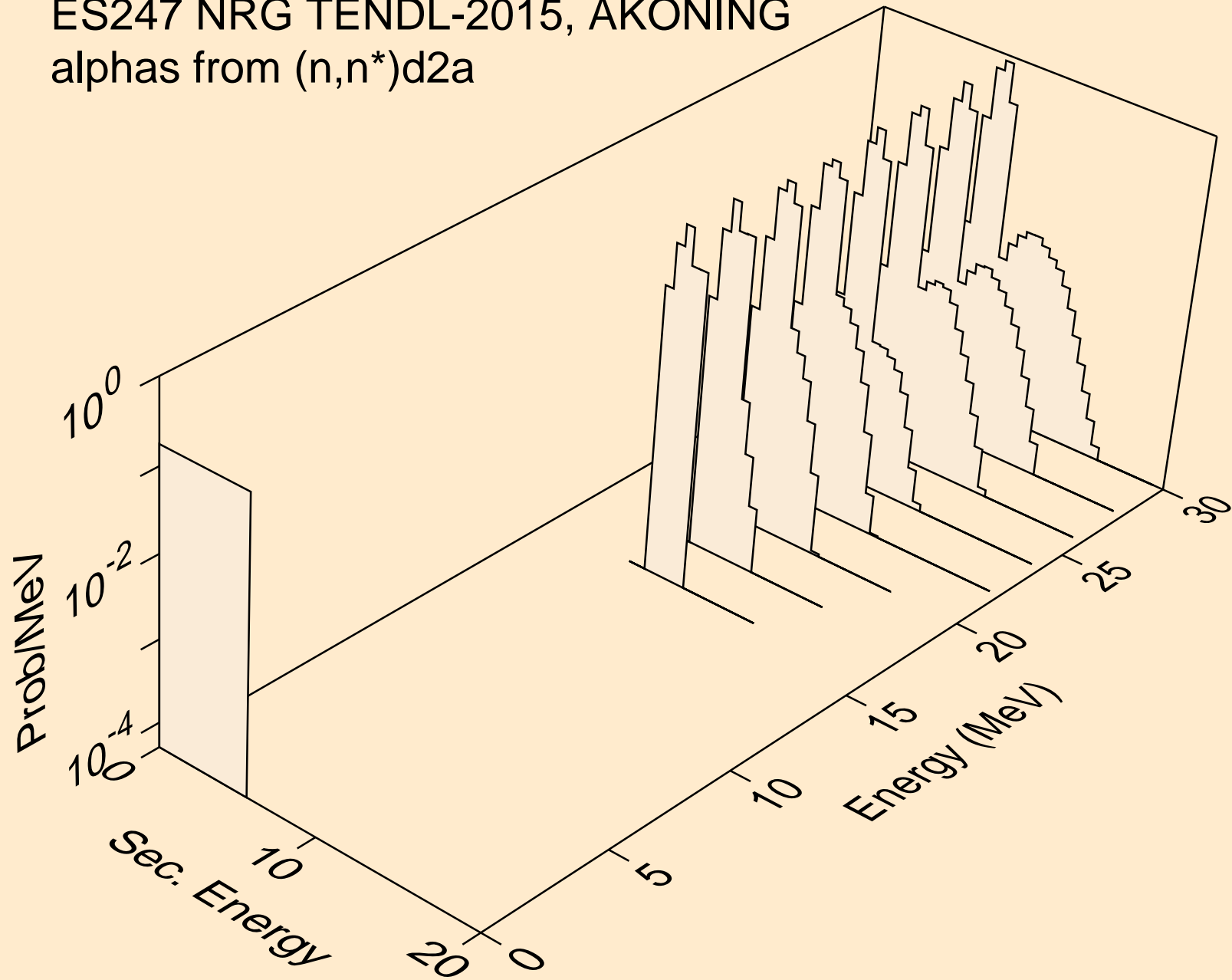
ES247 NRG TENDL-2015, AKONING  
alphas from (n,n\*)2a



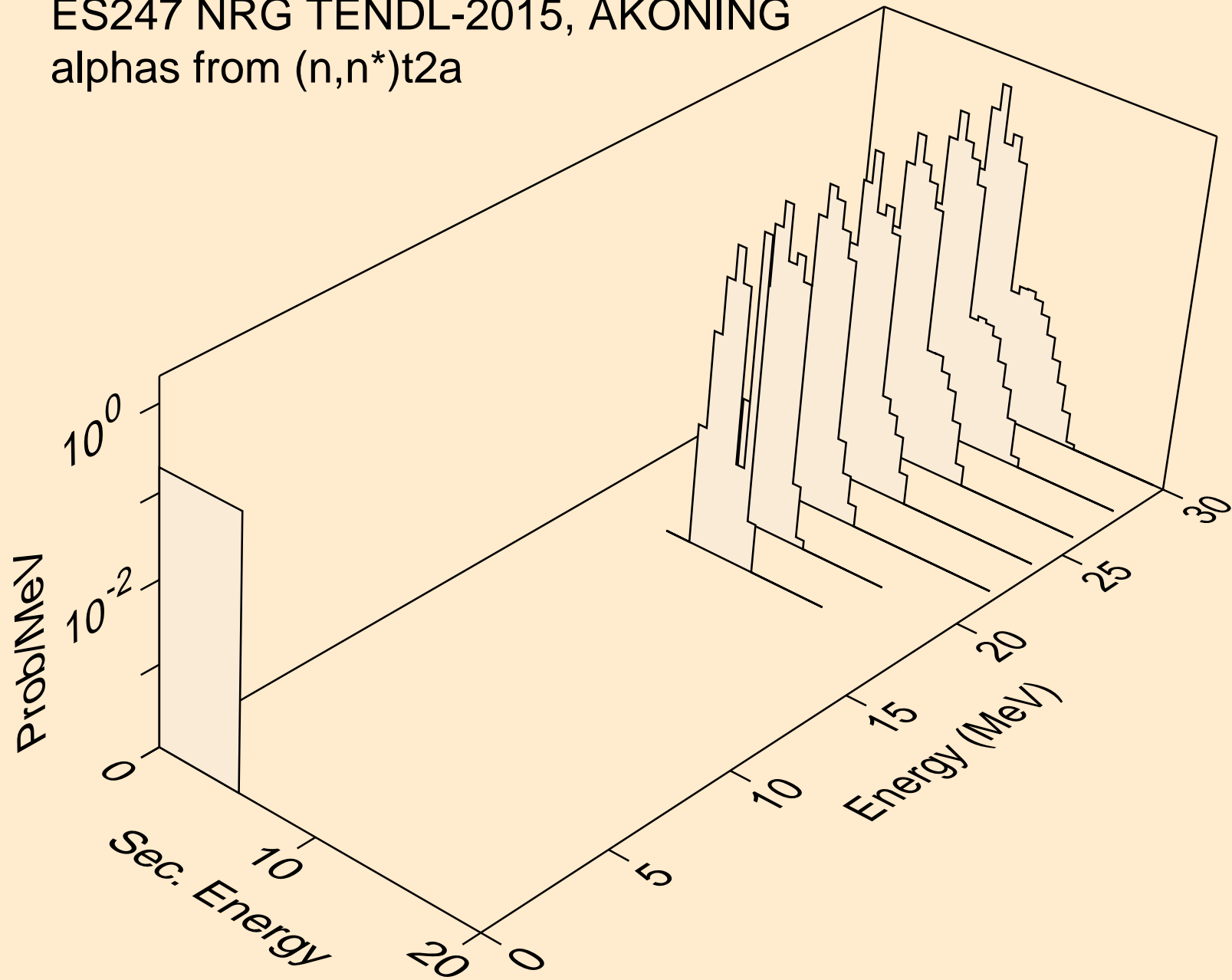
ES247 NRG TENDL-2015, AKONING  
alphas from (n,2n)2a



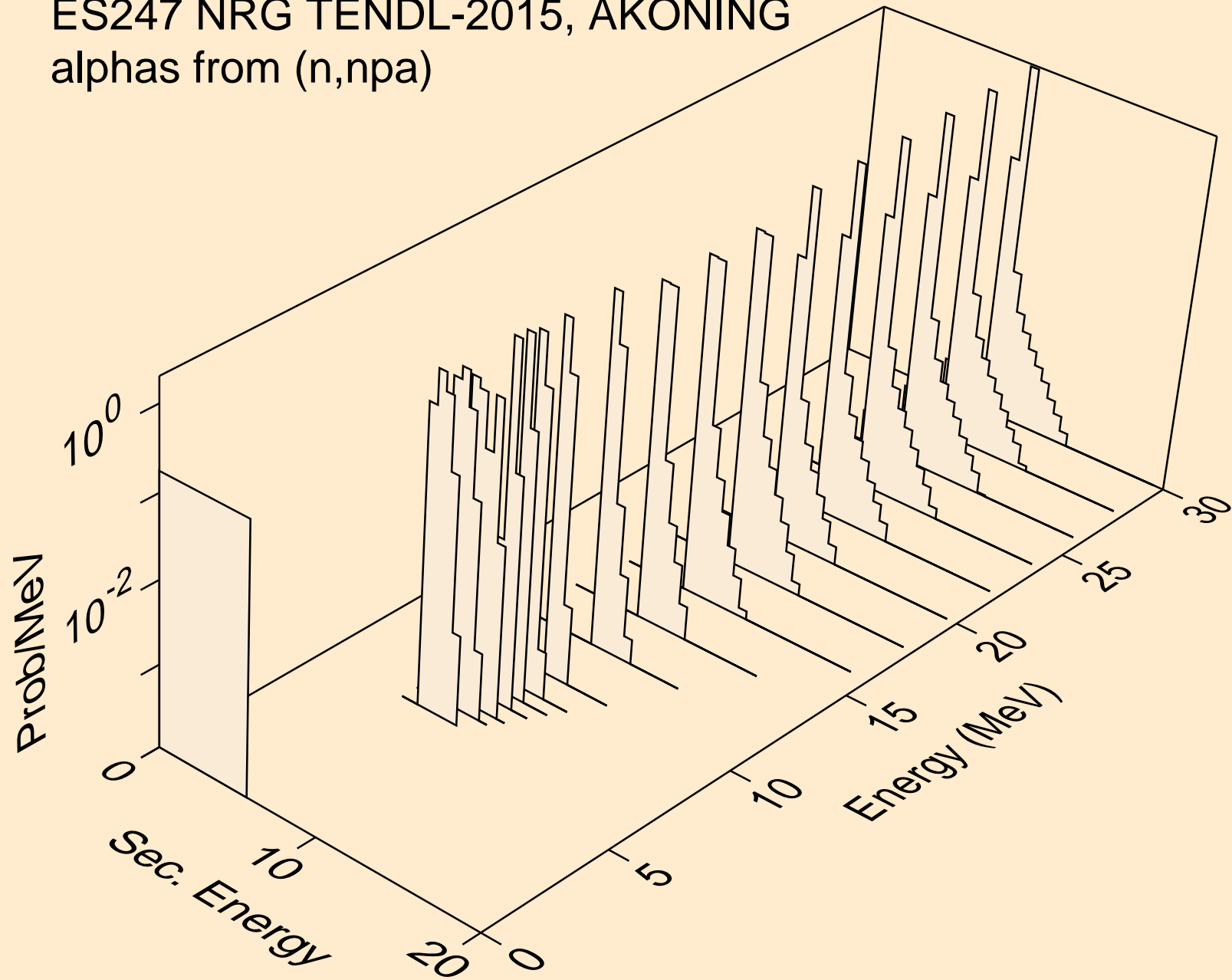
ES247 NRG TENDL-2015, AKONING  
alphas from (n,n\*)d2a



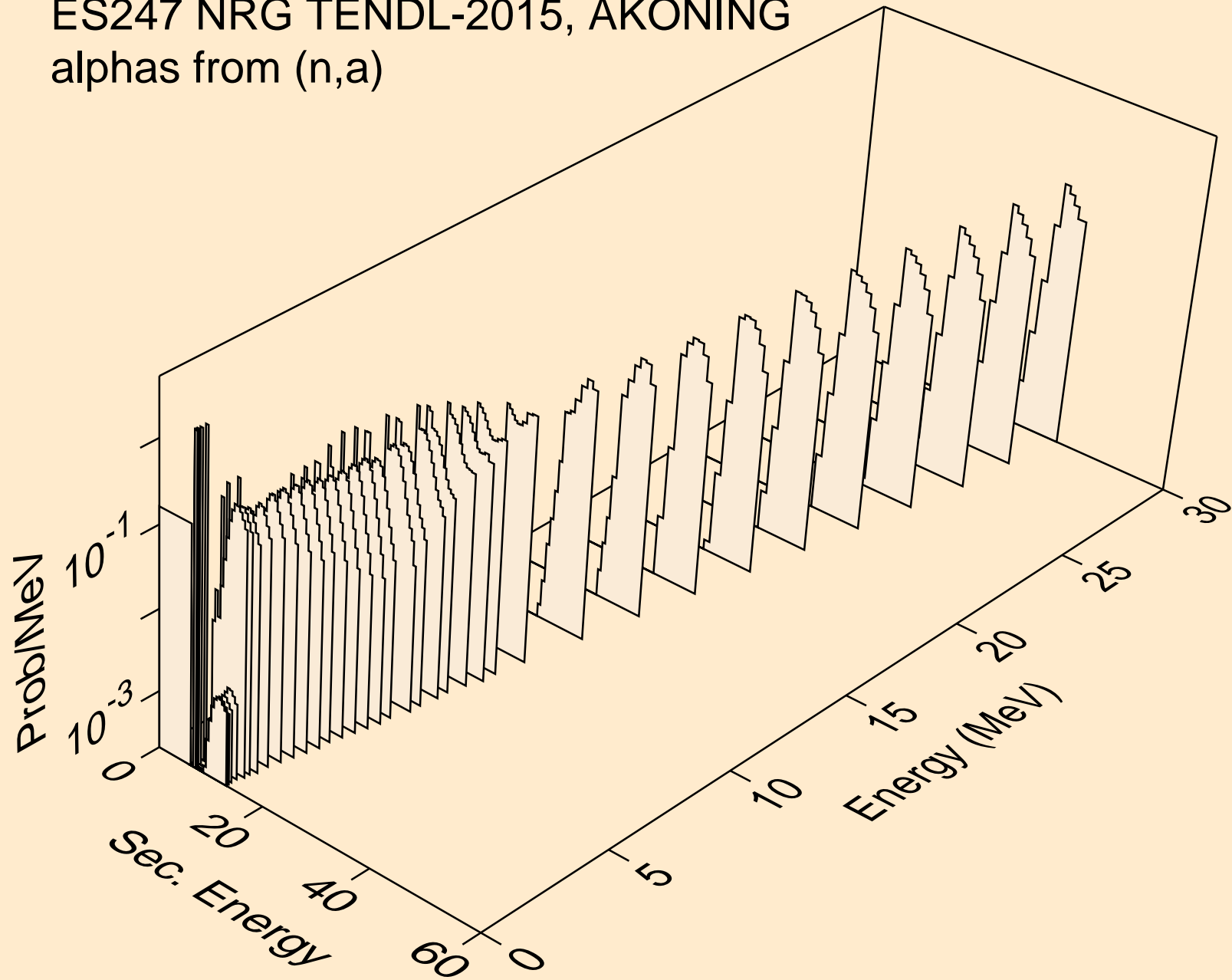
ES247 NRG TENDL-2015, AKONING  
alphas from (n,n\*)t2a



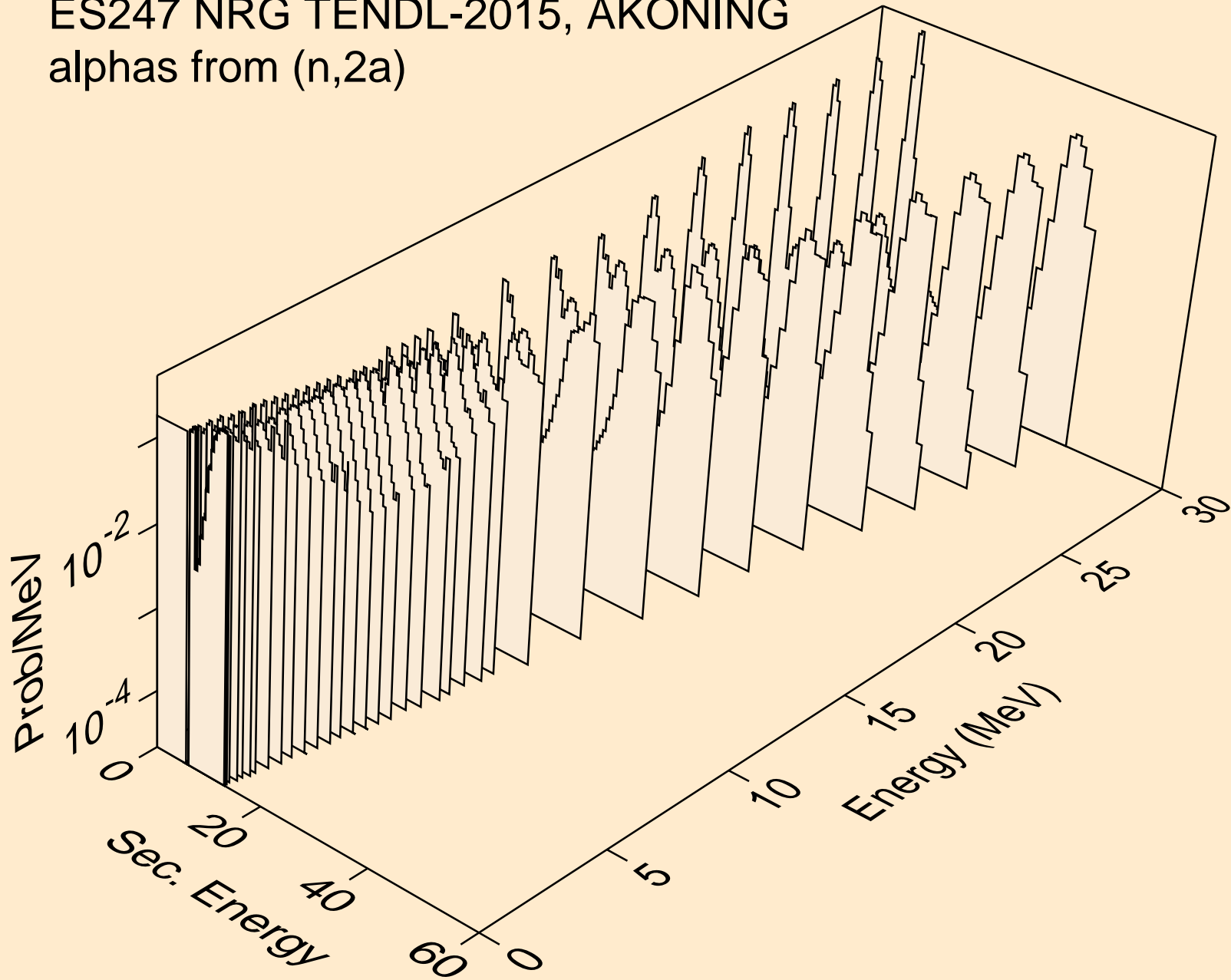
ES247 NRG TENDL-2015, AKONING  
alphas from (n,npa)



ES247 NRG TENDL-2015, AKONING  
alphas from (n,a)

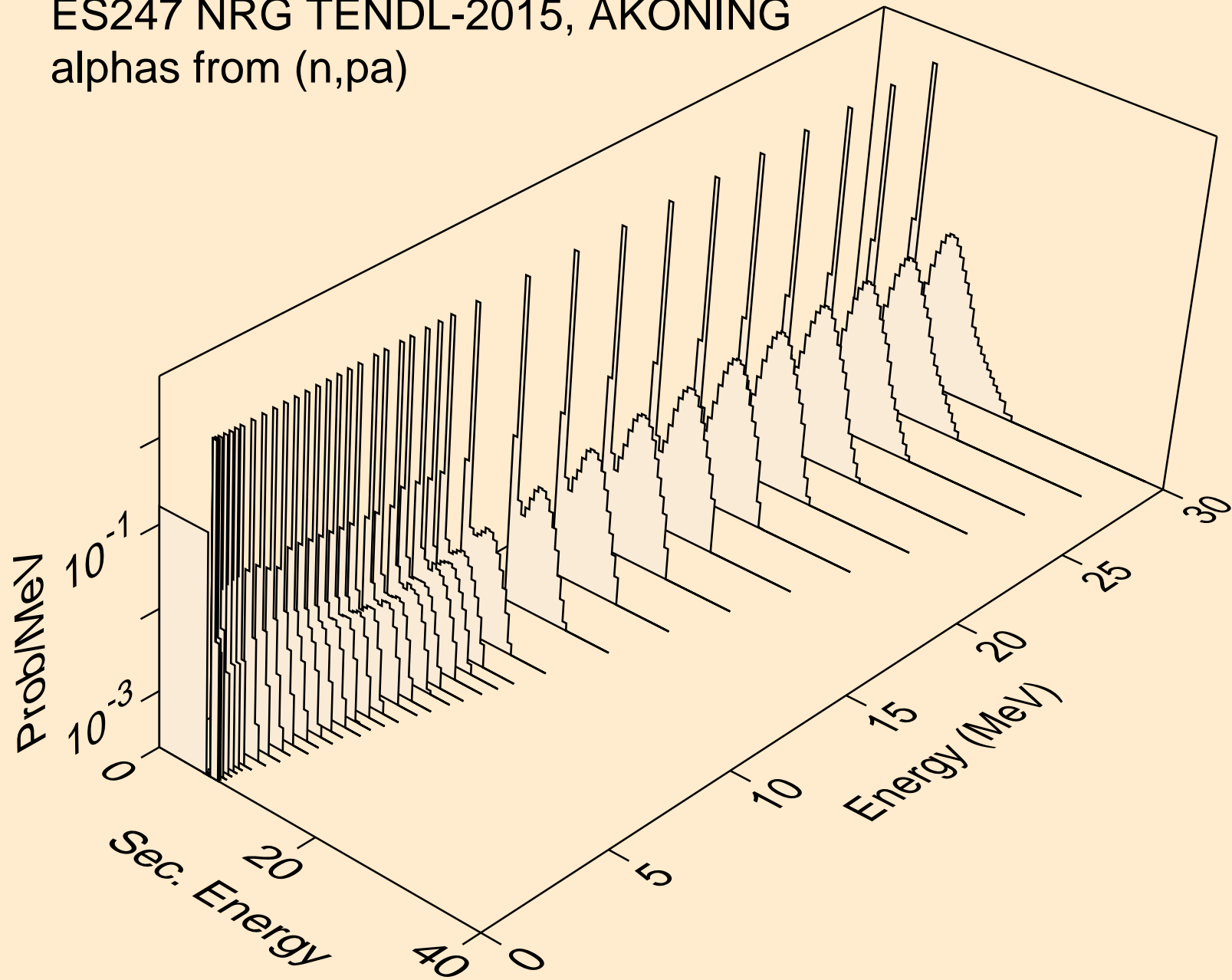


ES247 NRG TENDL-2015, AKONING  
alphas from (n,2a)

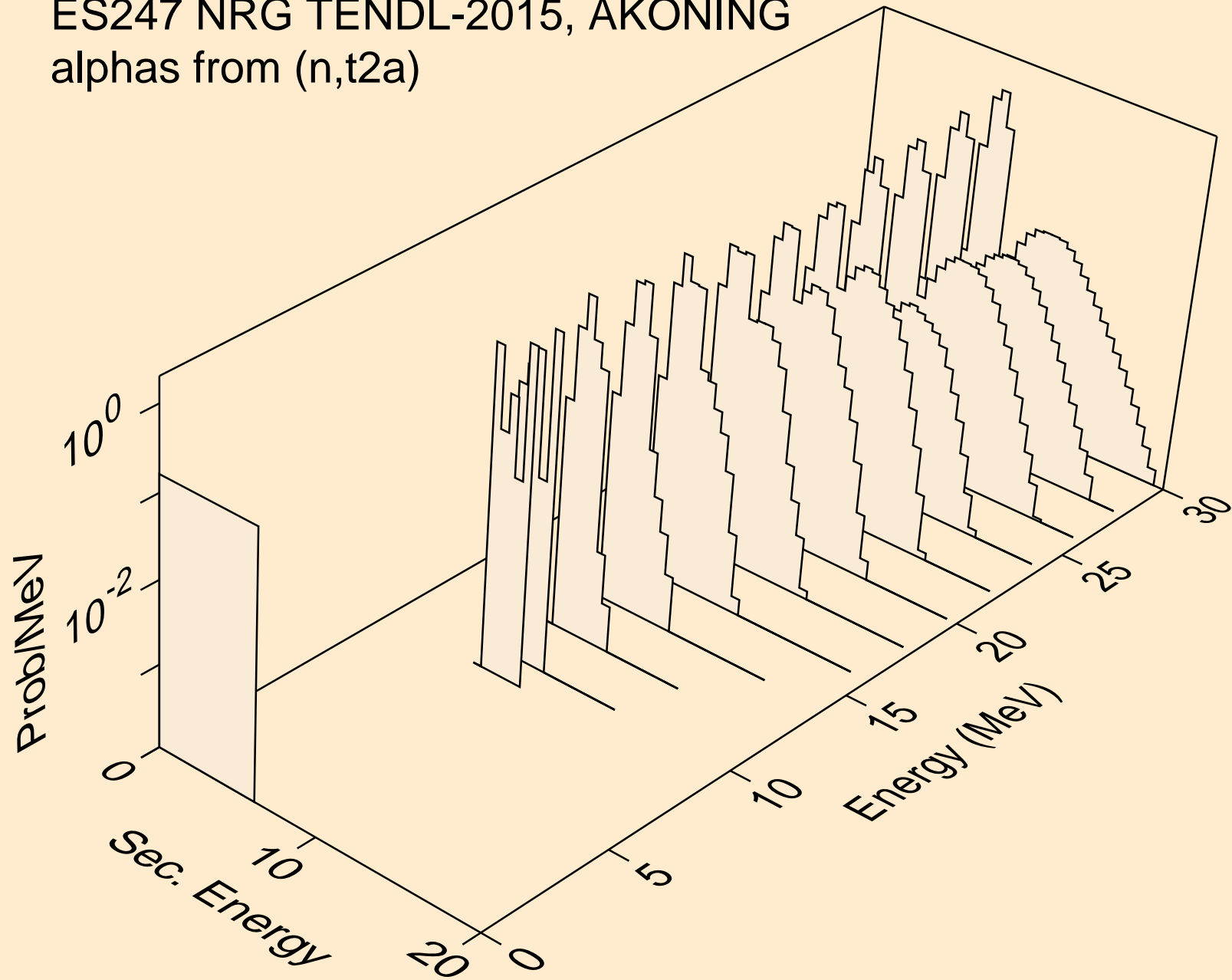




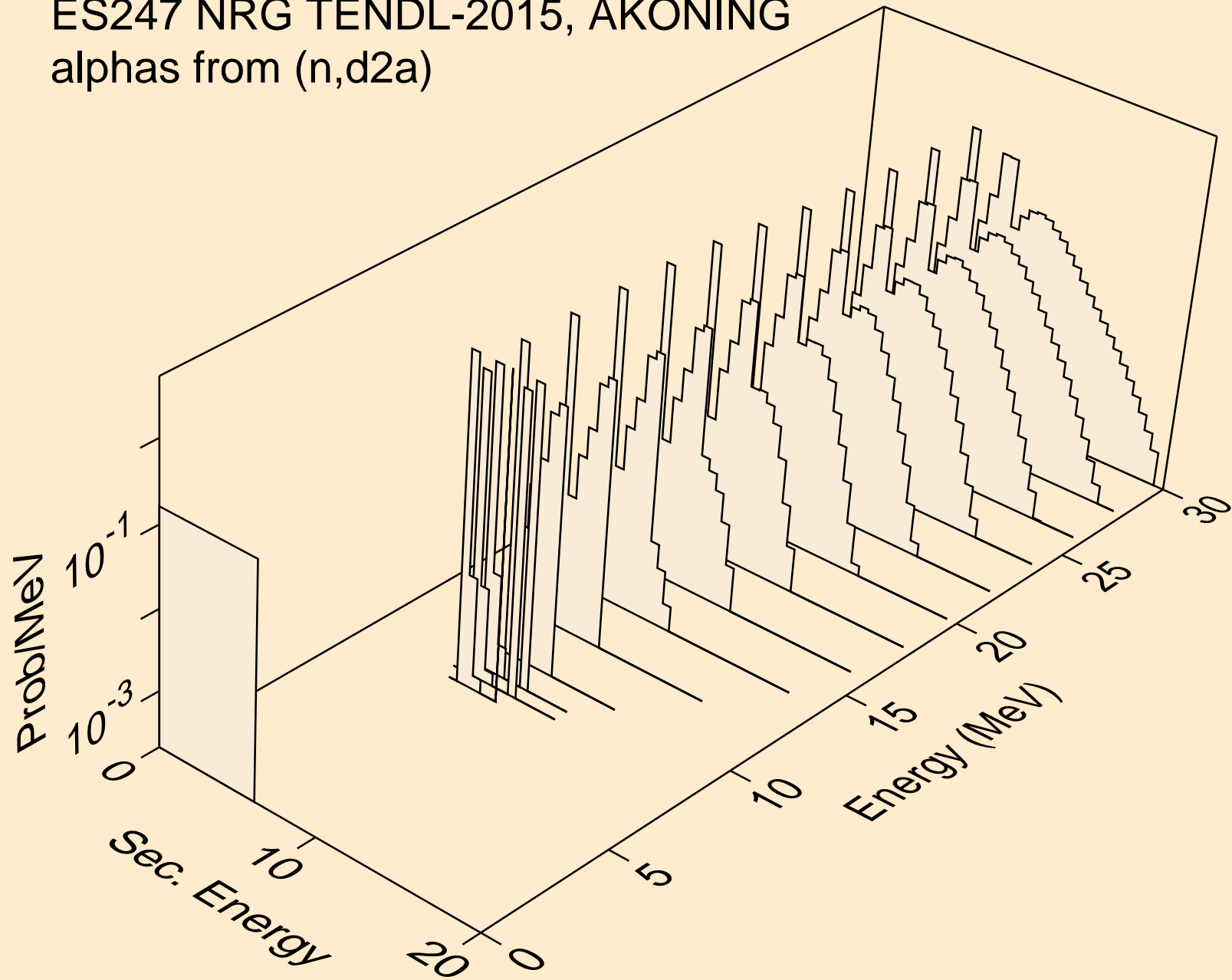
ES247 NRG TENDL-2015, AKONING  
alphas from (n,pa)



ES247 NRG TENDL-2015, AKONING  
alphas from (n,t2a)



ES247 NRG TENDL-2015, AKONING  
alphas from (n,d2a)



ES247 NRG TENDL-2015, AKONING  
alphas from (n,da)

