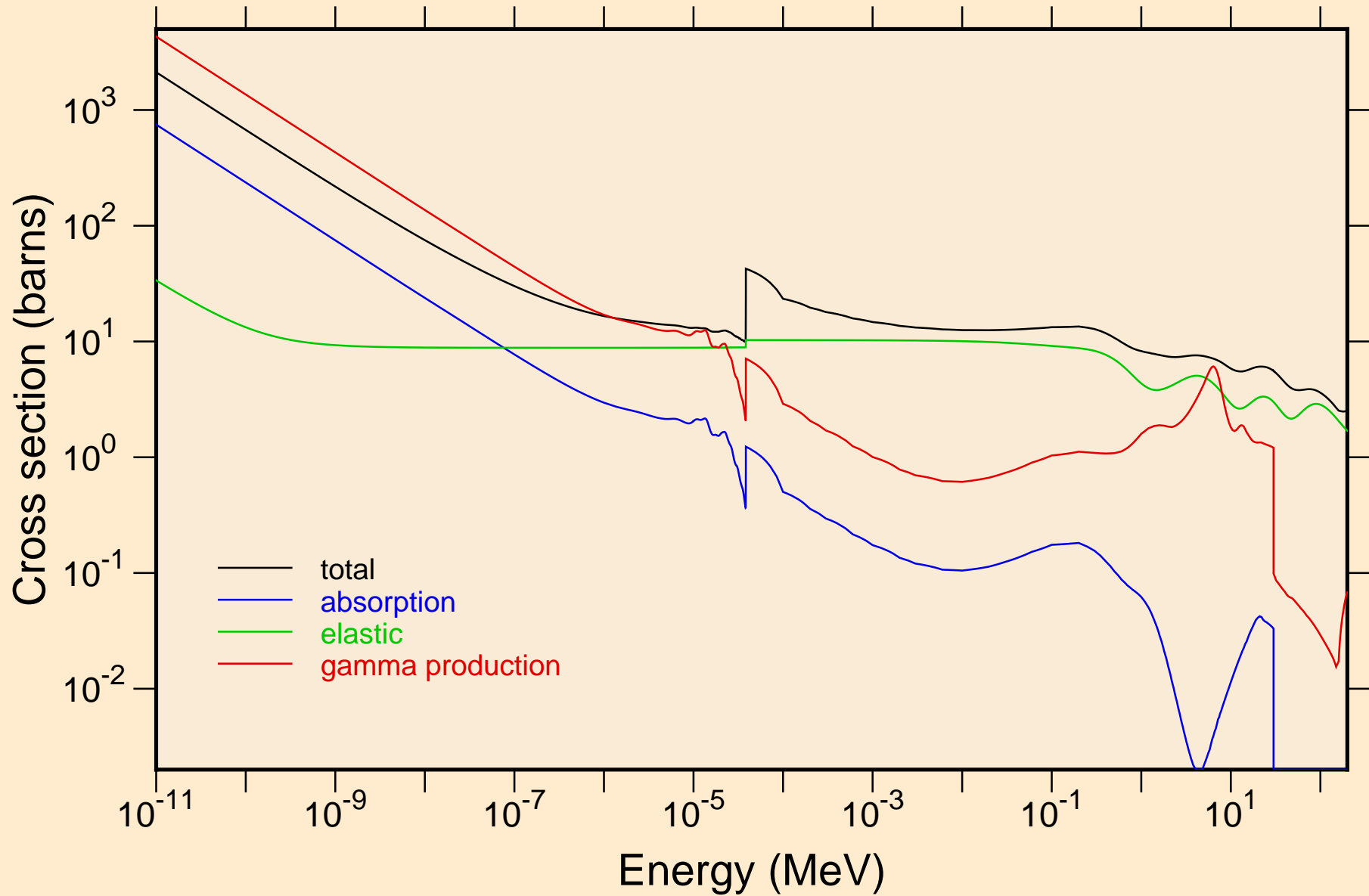


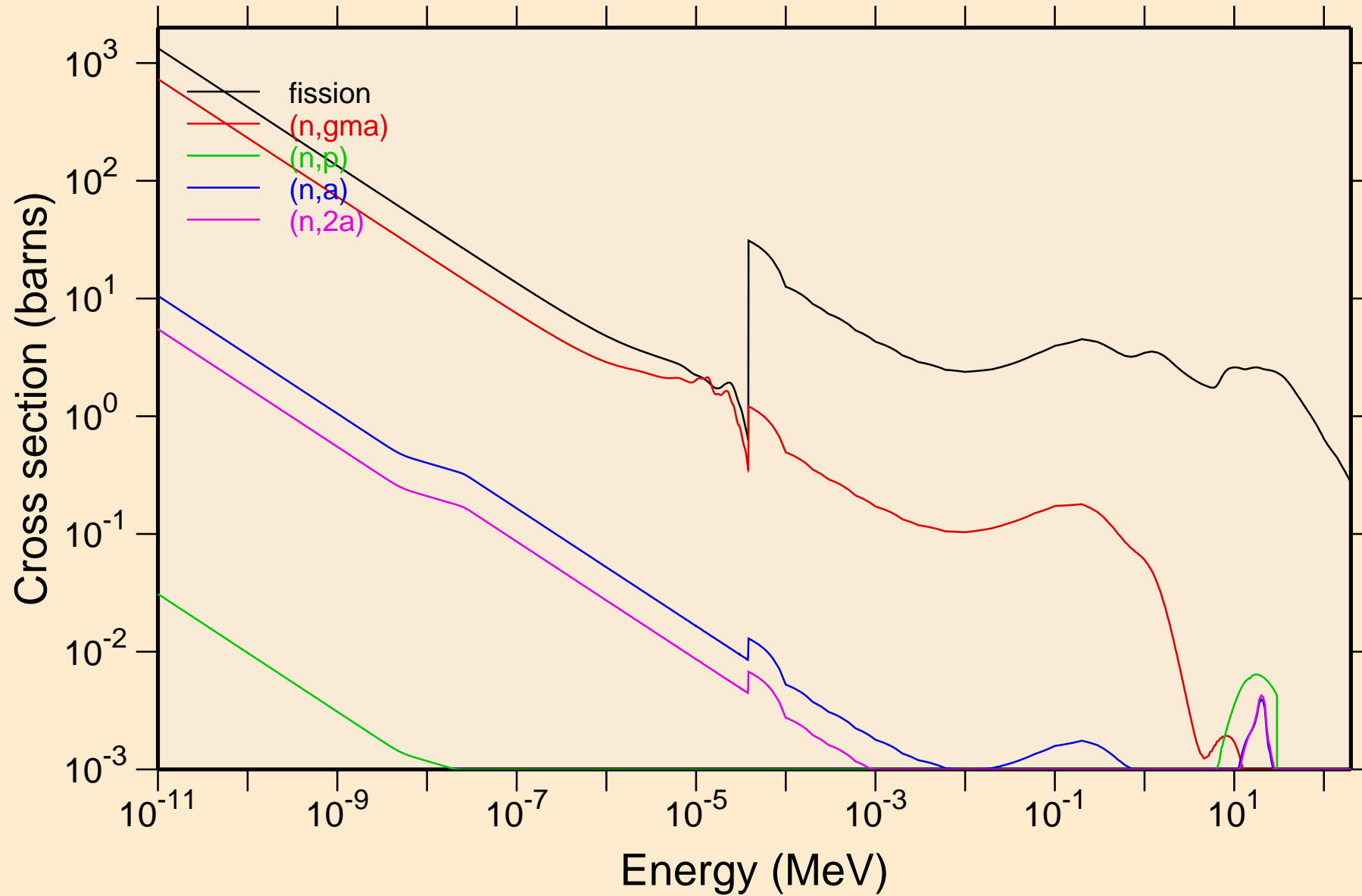
# ES242 NRG TENDL-2015, AKONING

## Principal cross sections



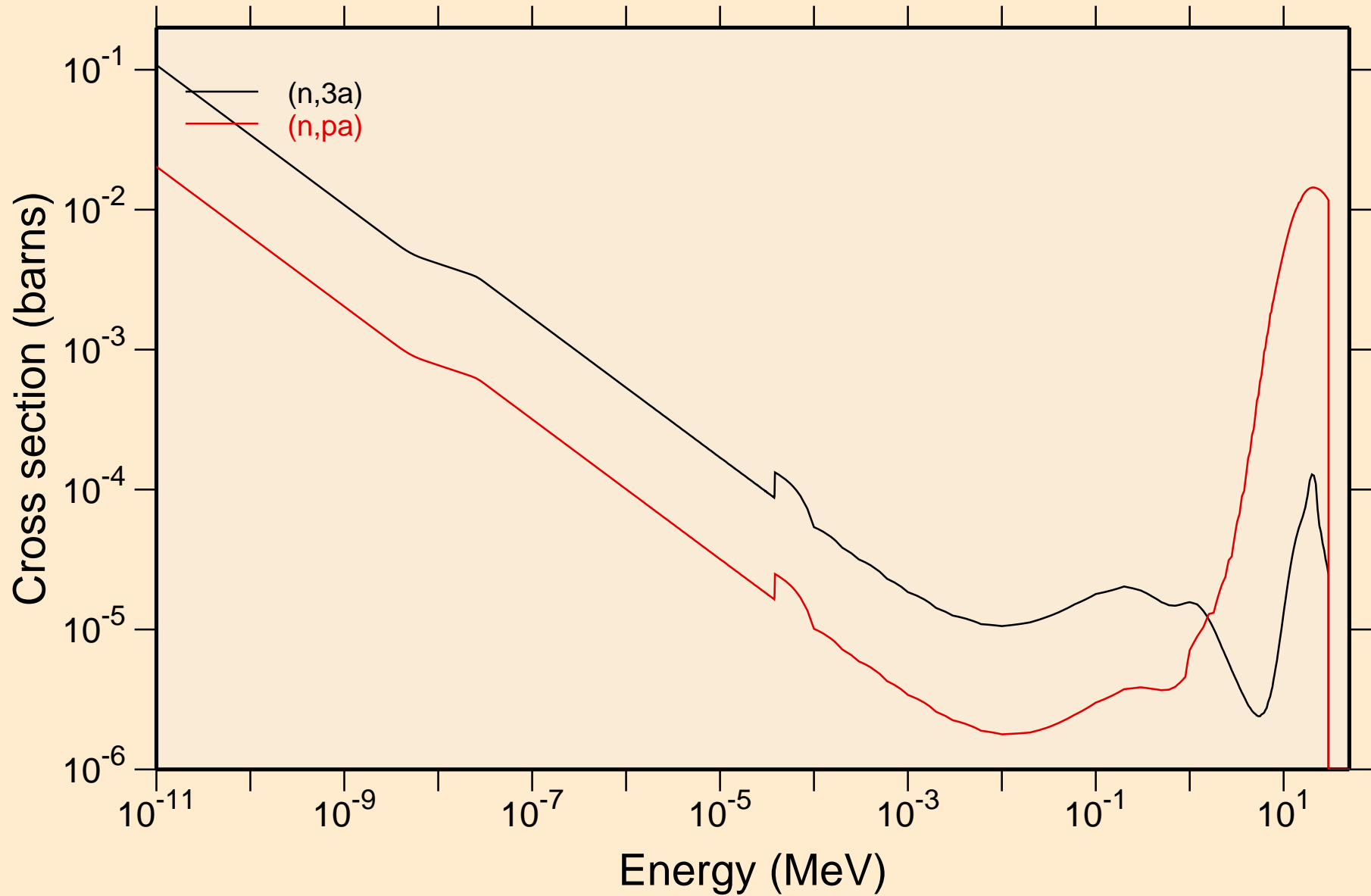
# ES242 NRG TENDL-2015, AKONING

## Non-threshold reactions



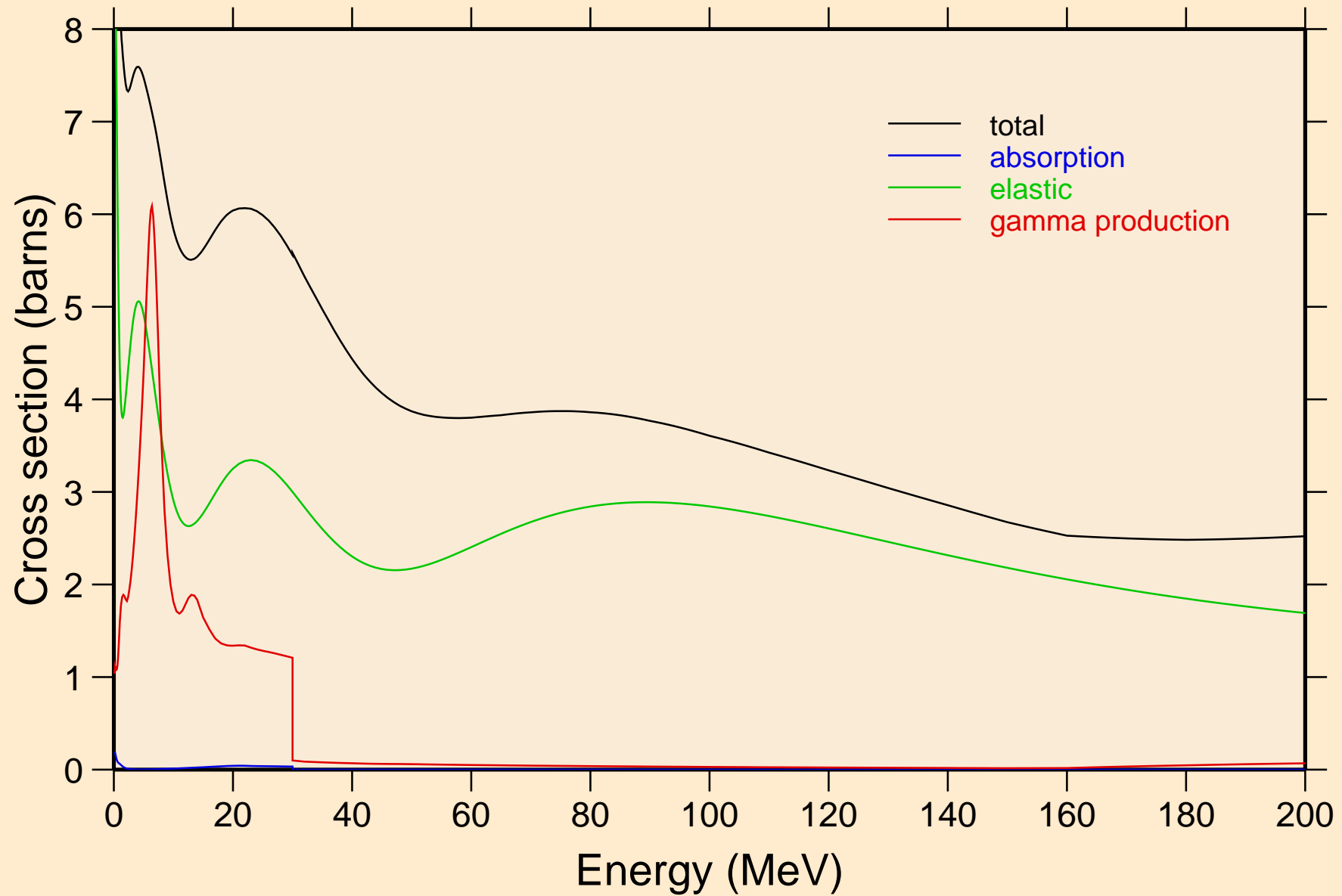
# ES242 NRG TENDL-2015, AKONING

## Non-threshold reactions



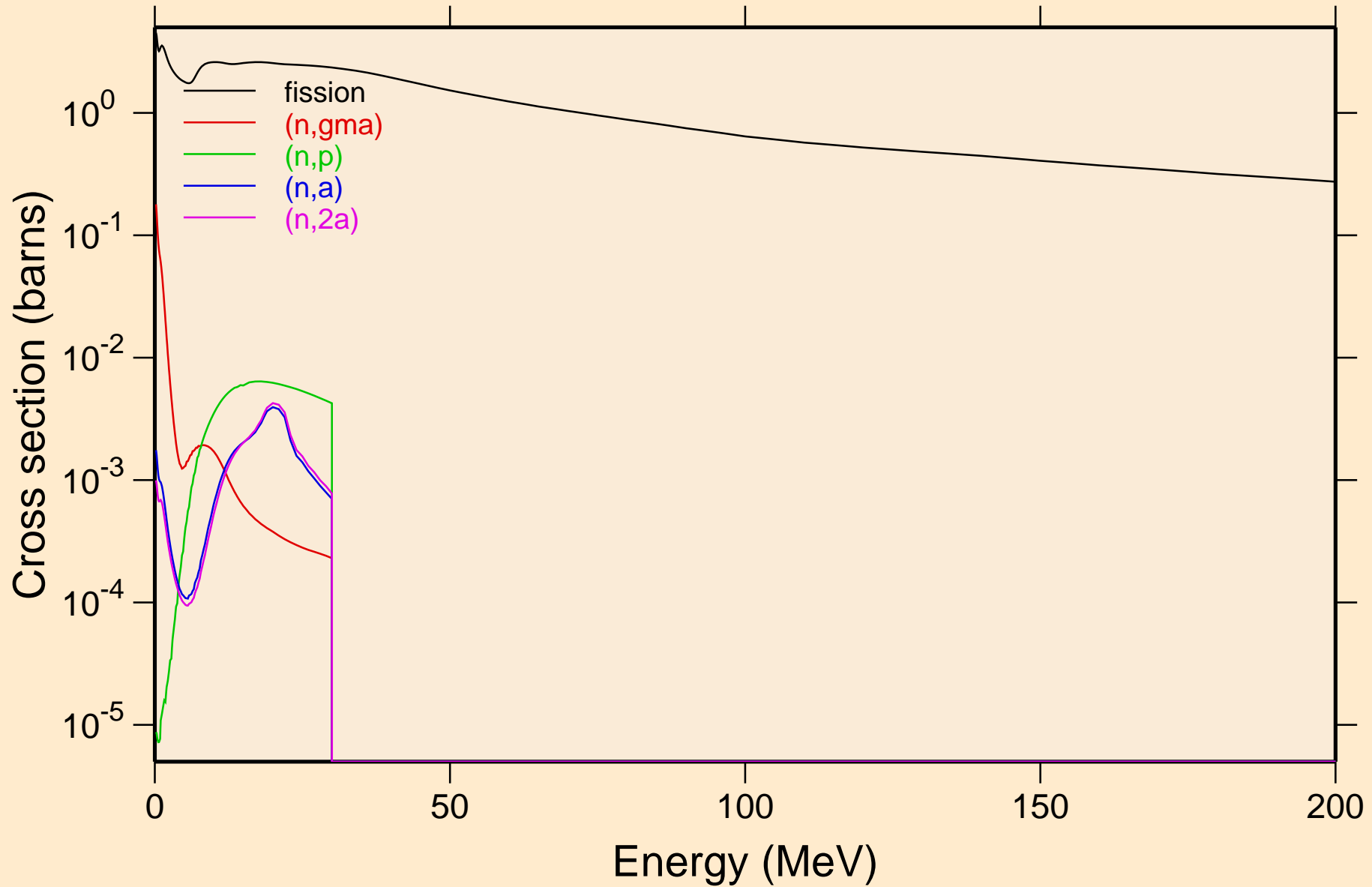
# ES242 NRG TENDL-2015, AKONING

## Principal cross sections



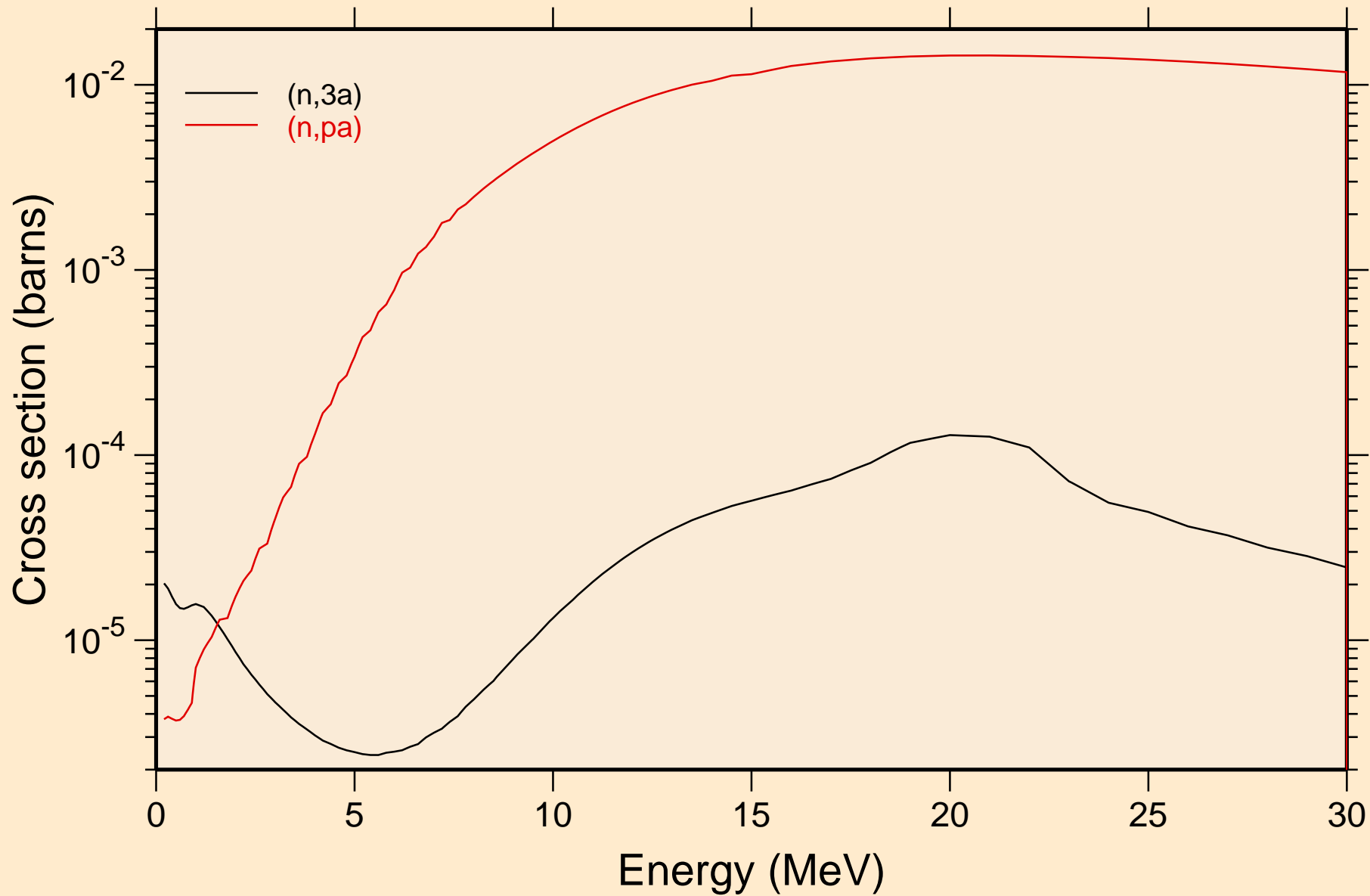
# ES242 NRG TENDL-2015, AKONING

## Non-threshold reactions

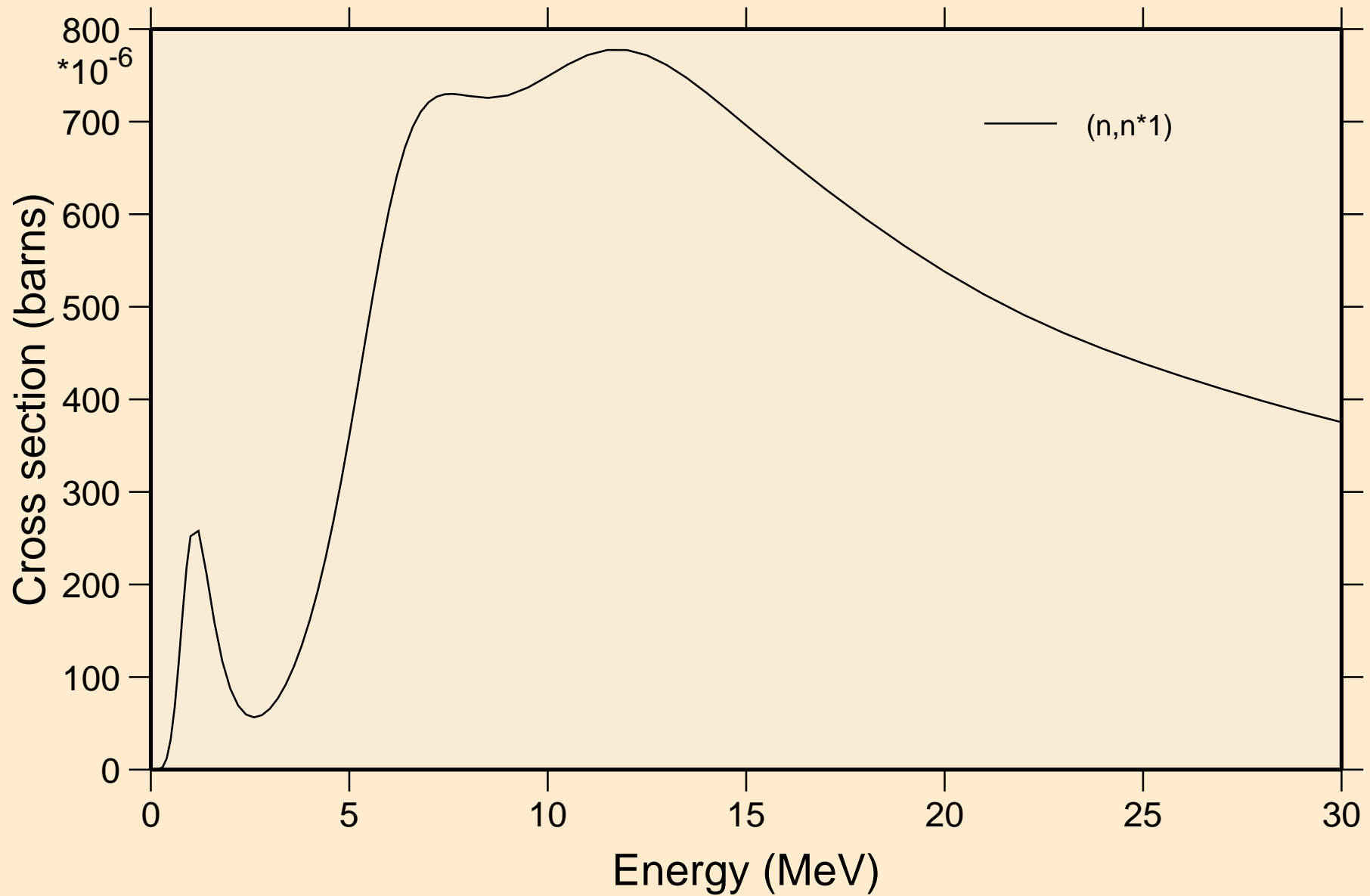


# ES242 NRG TENDL-2015, AKONING

## Non-threshold reactions

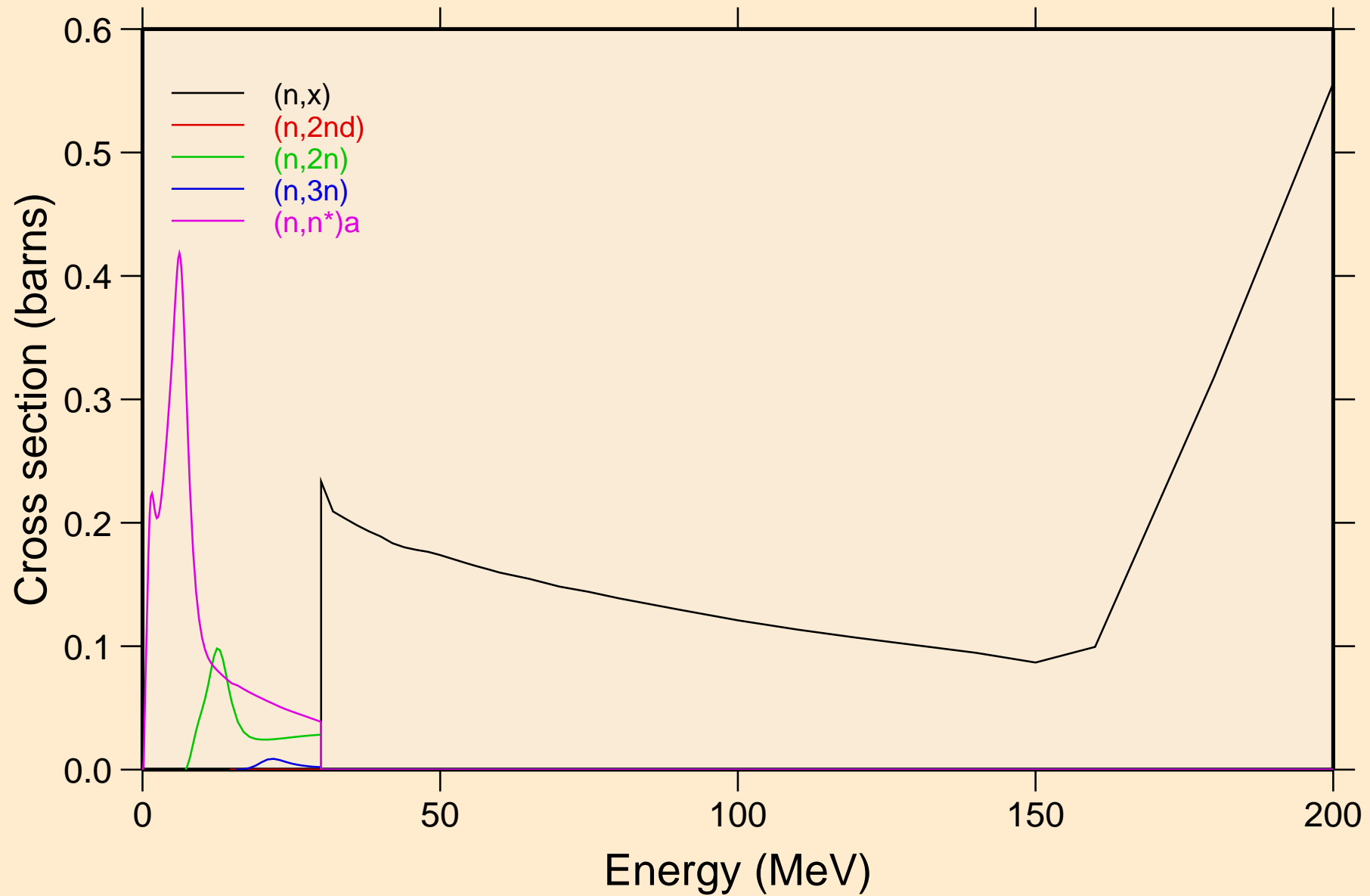


ES242 NRG TENDL-2015, AKONING  
Inelastic levels



# ES242 NRG TENDL-2015, AKONING

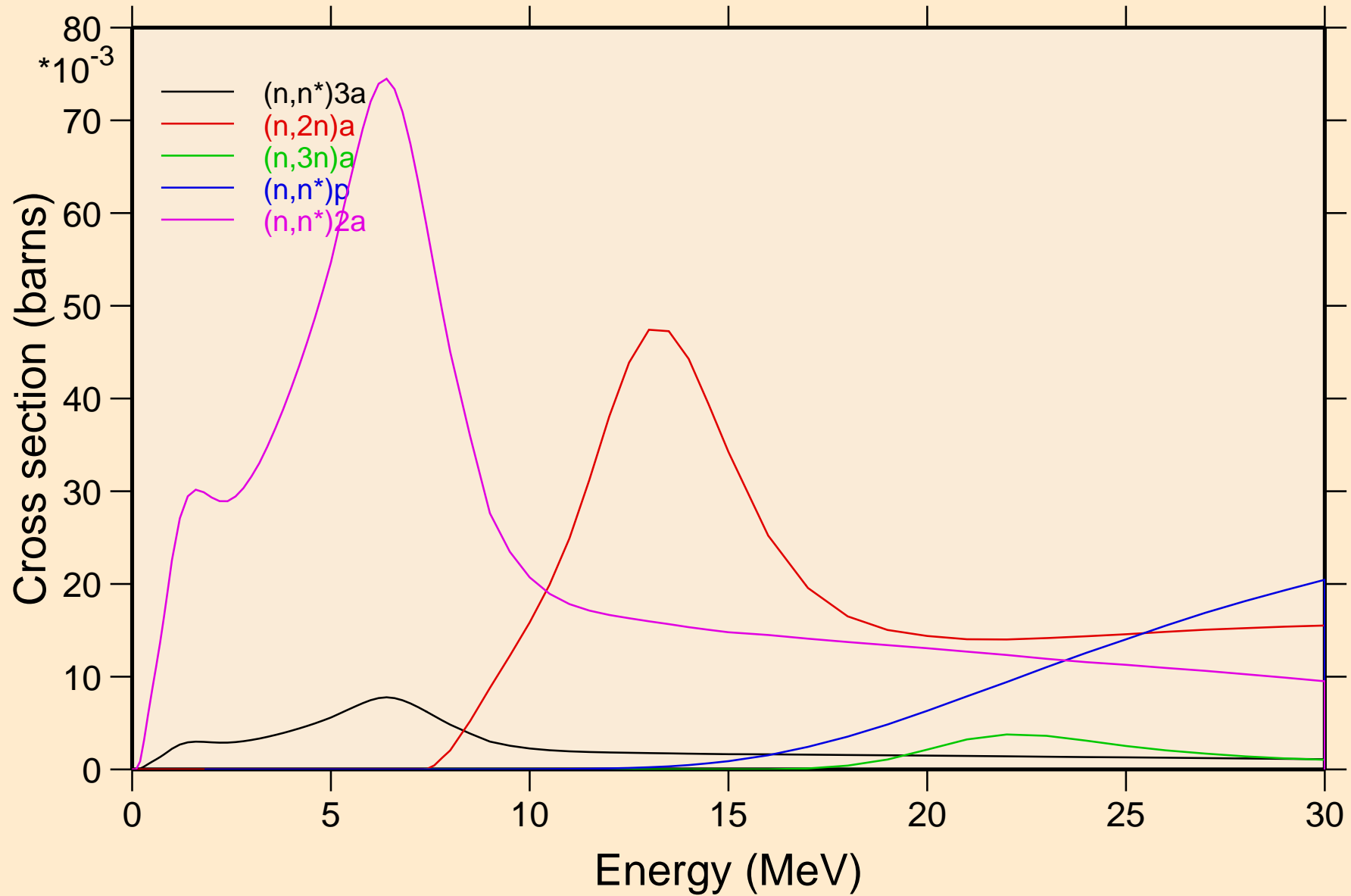
## Threshold reactions





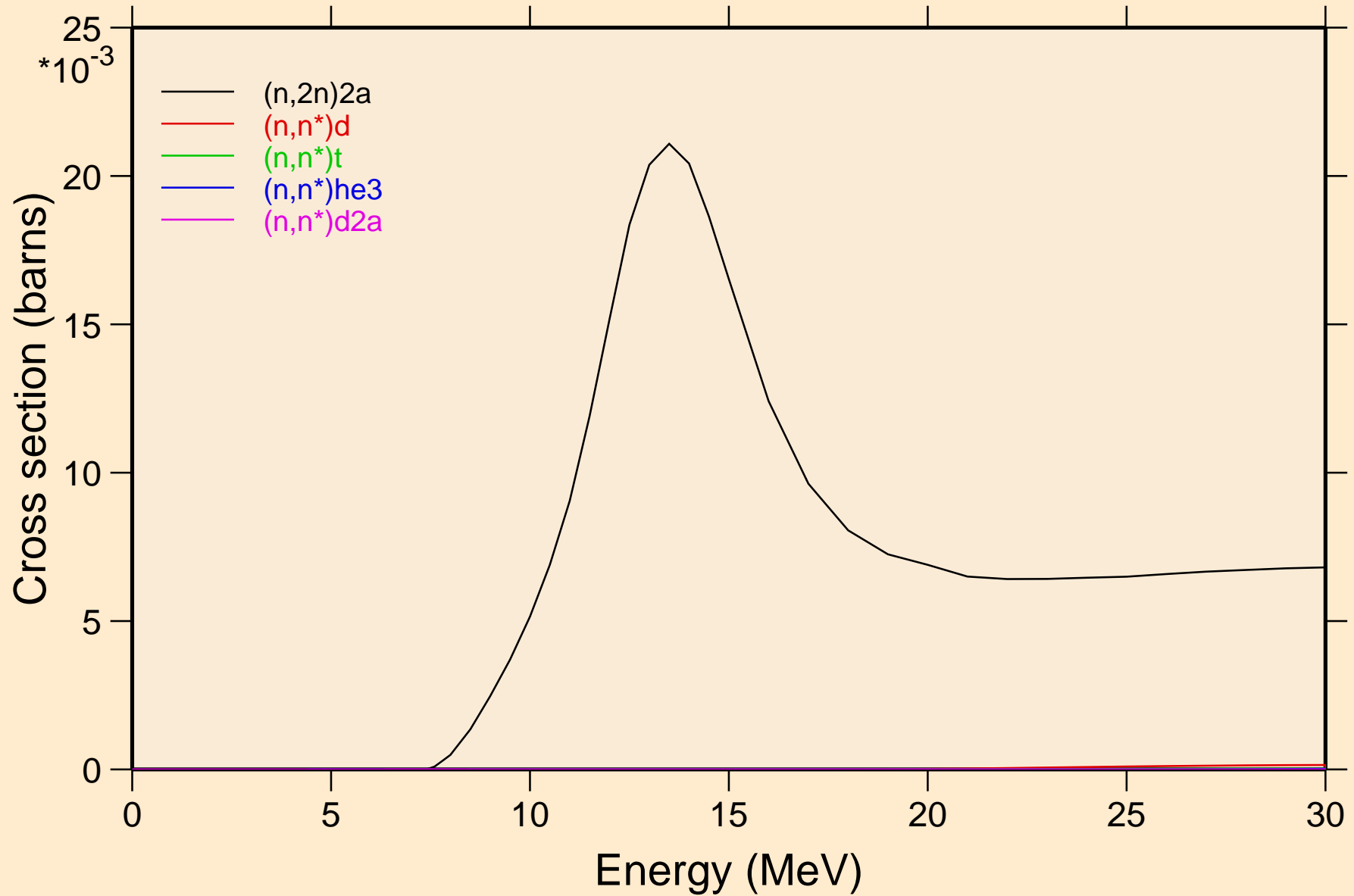
# ES242 NRG TENDL-2015, AKONING

## Threshold reactions



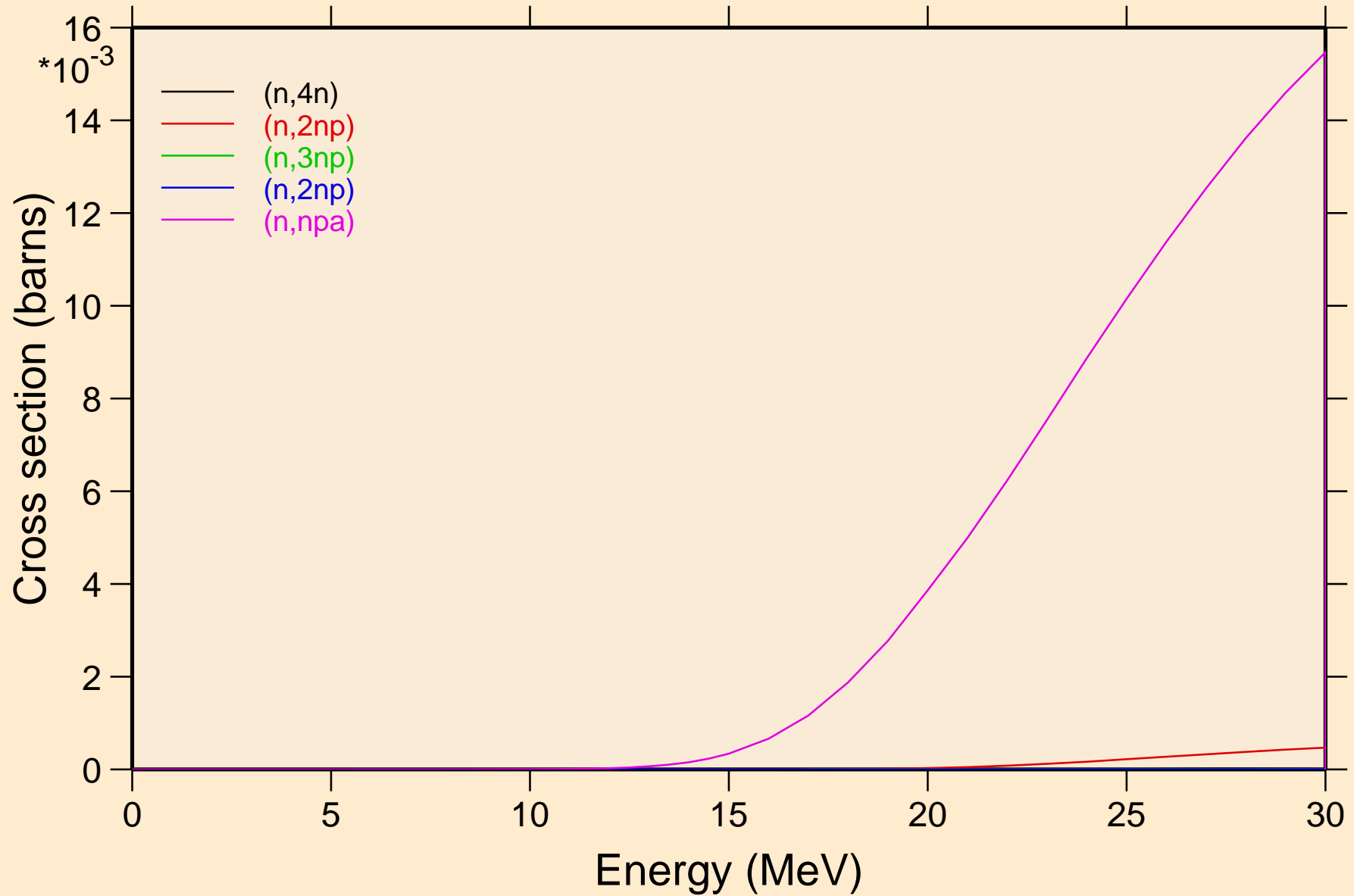
# ES242 NRG TENDL-2015, AKONING

## Threshold reactions



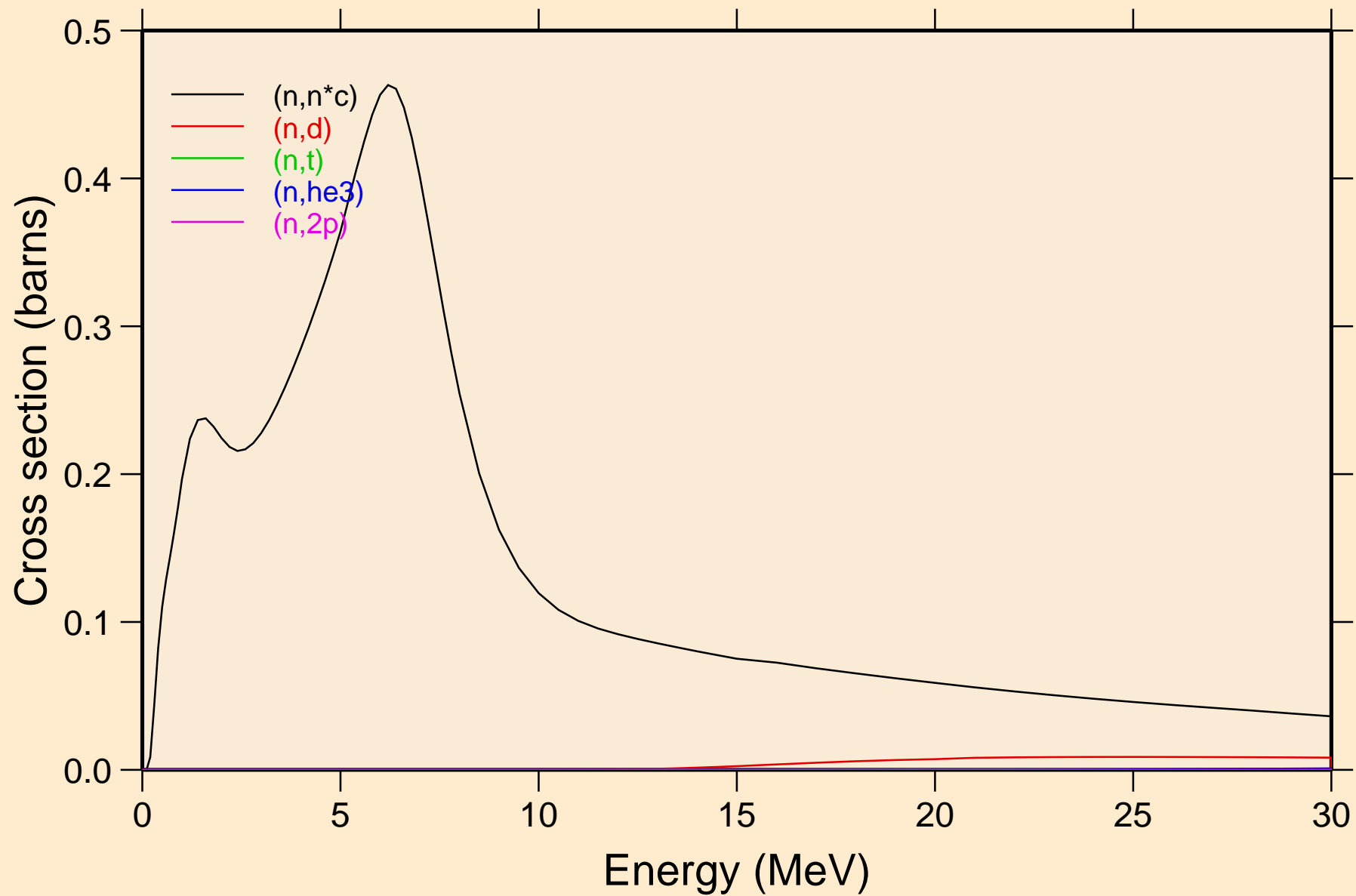
# ES242 NRG TENDL-2015, AKONING

## Threshold reactions



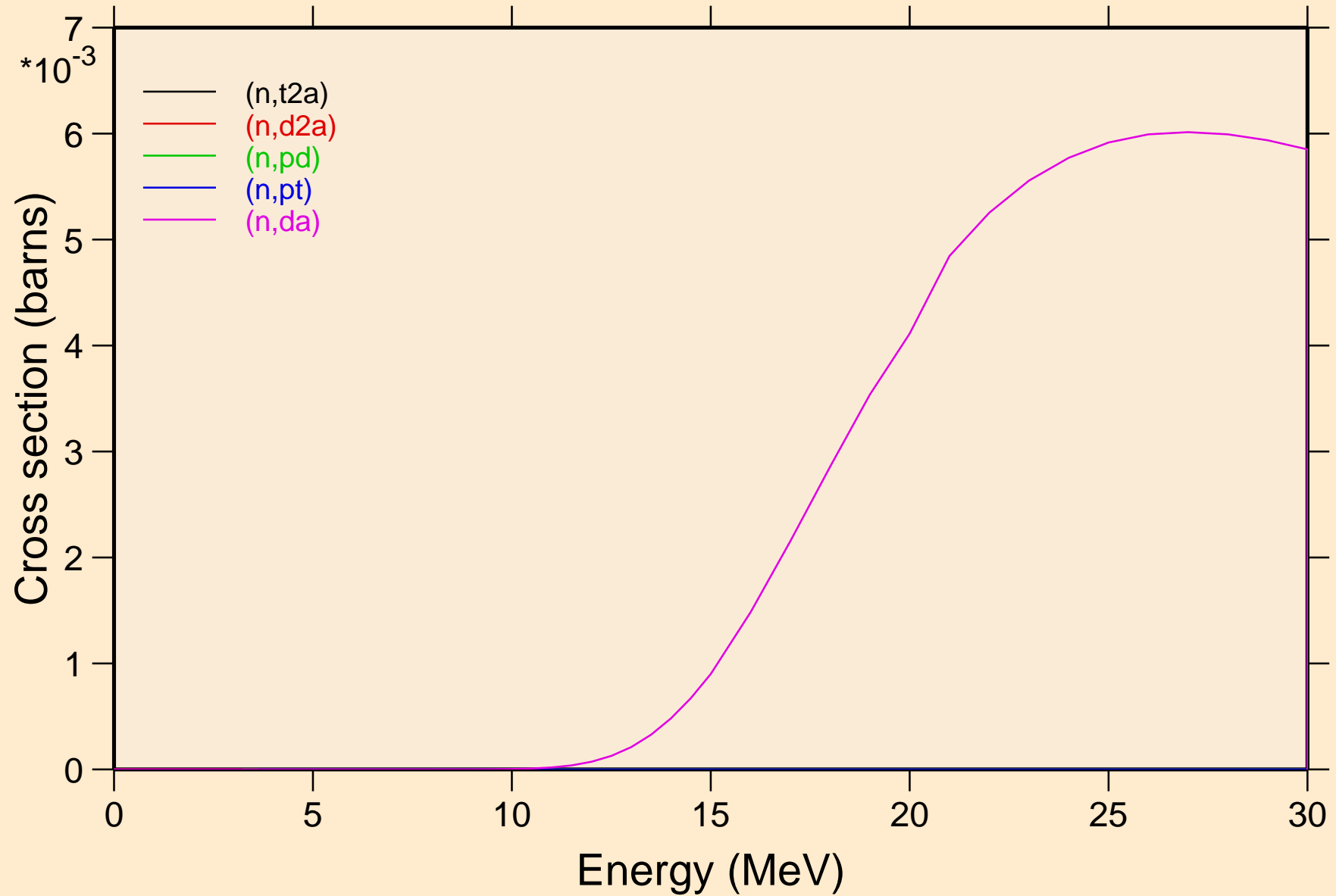
# ES242 NRG TENDL-2015, AKONING

## Threshold reactions

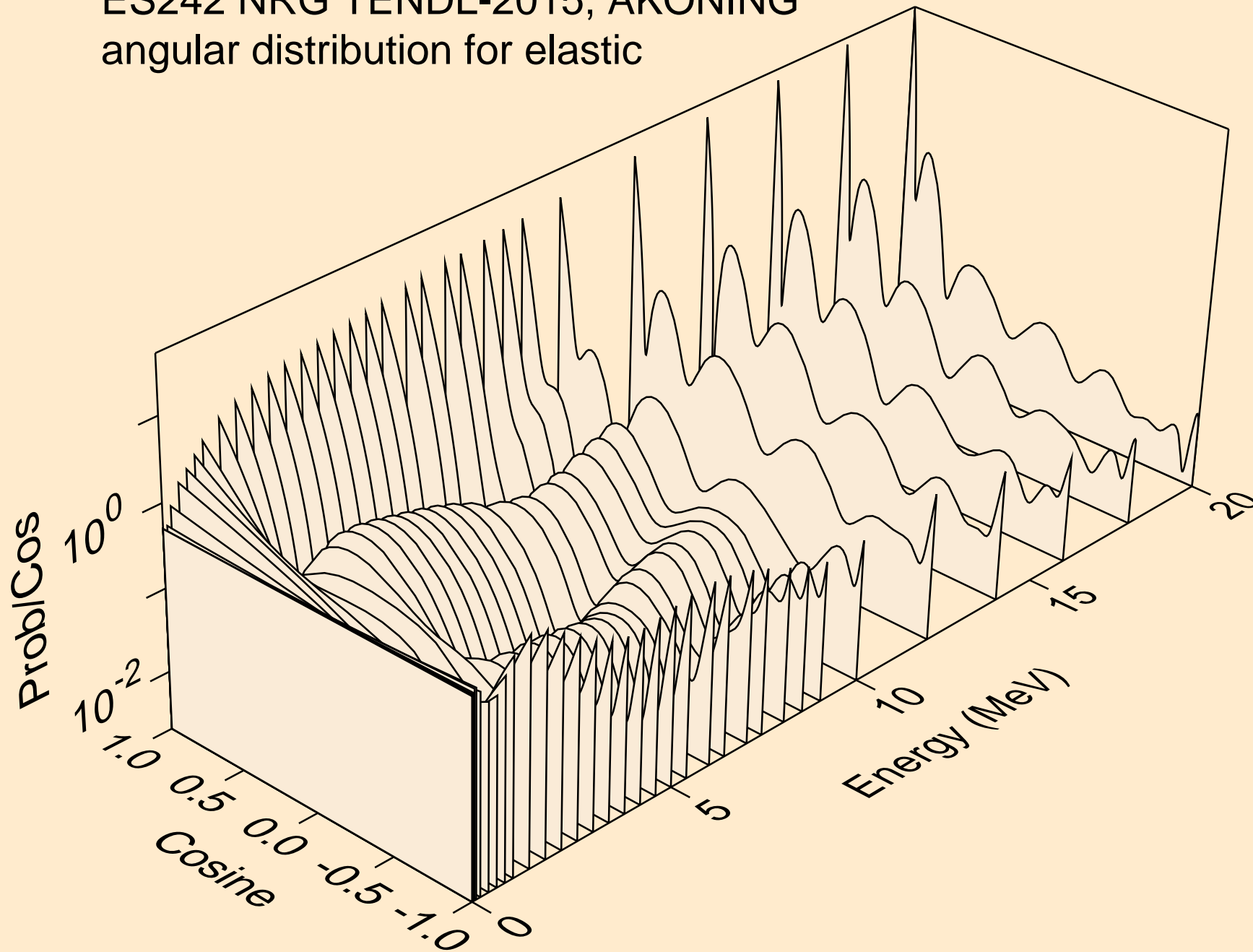


# ES242 NRG TENDL-2015, AKONING

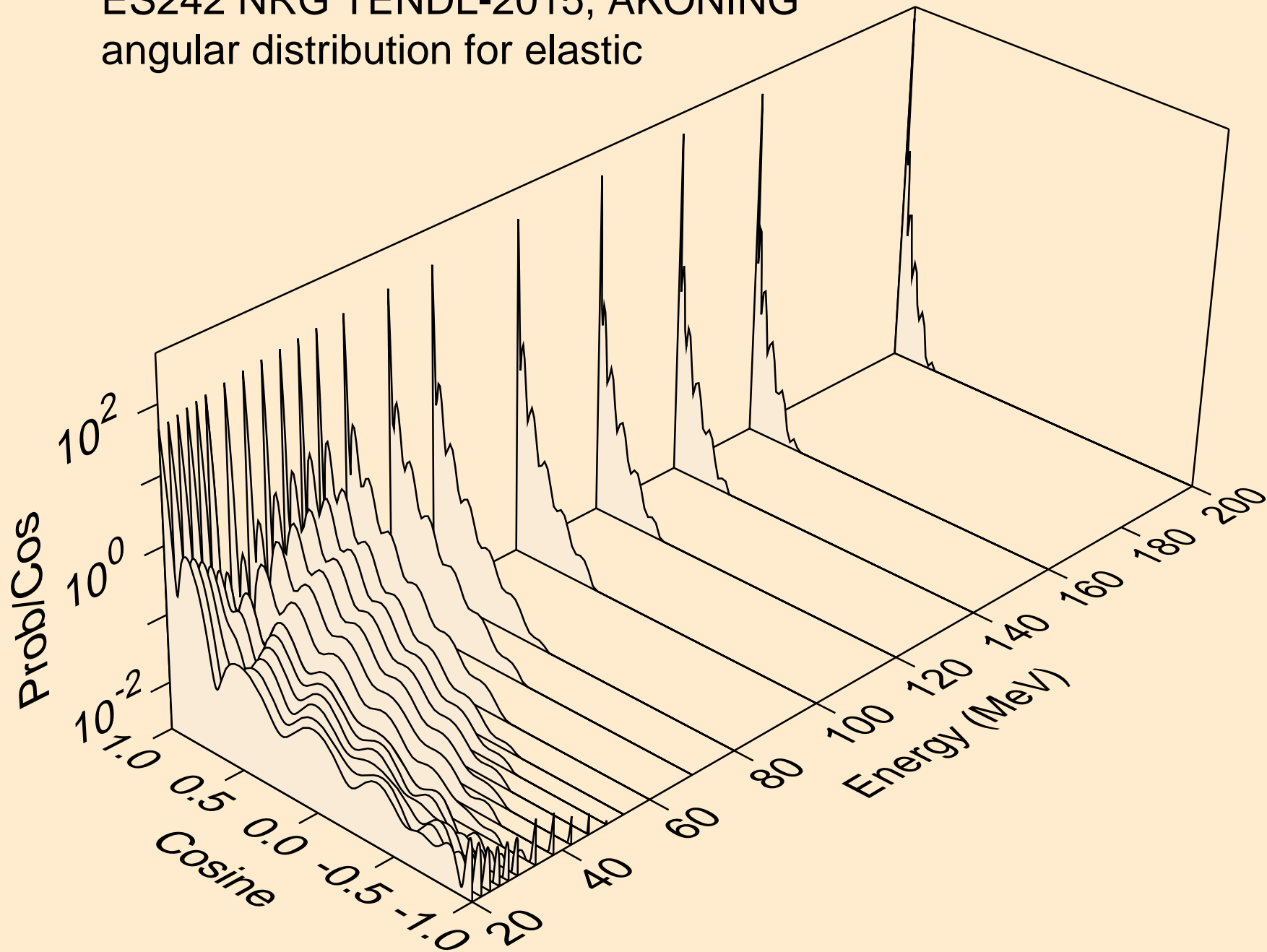
## Threshold reactions



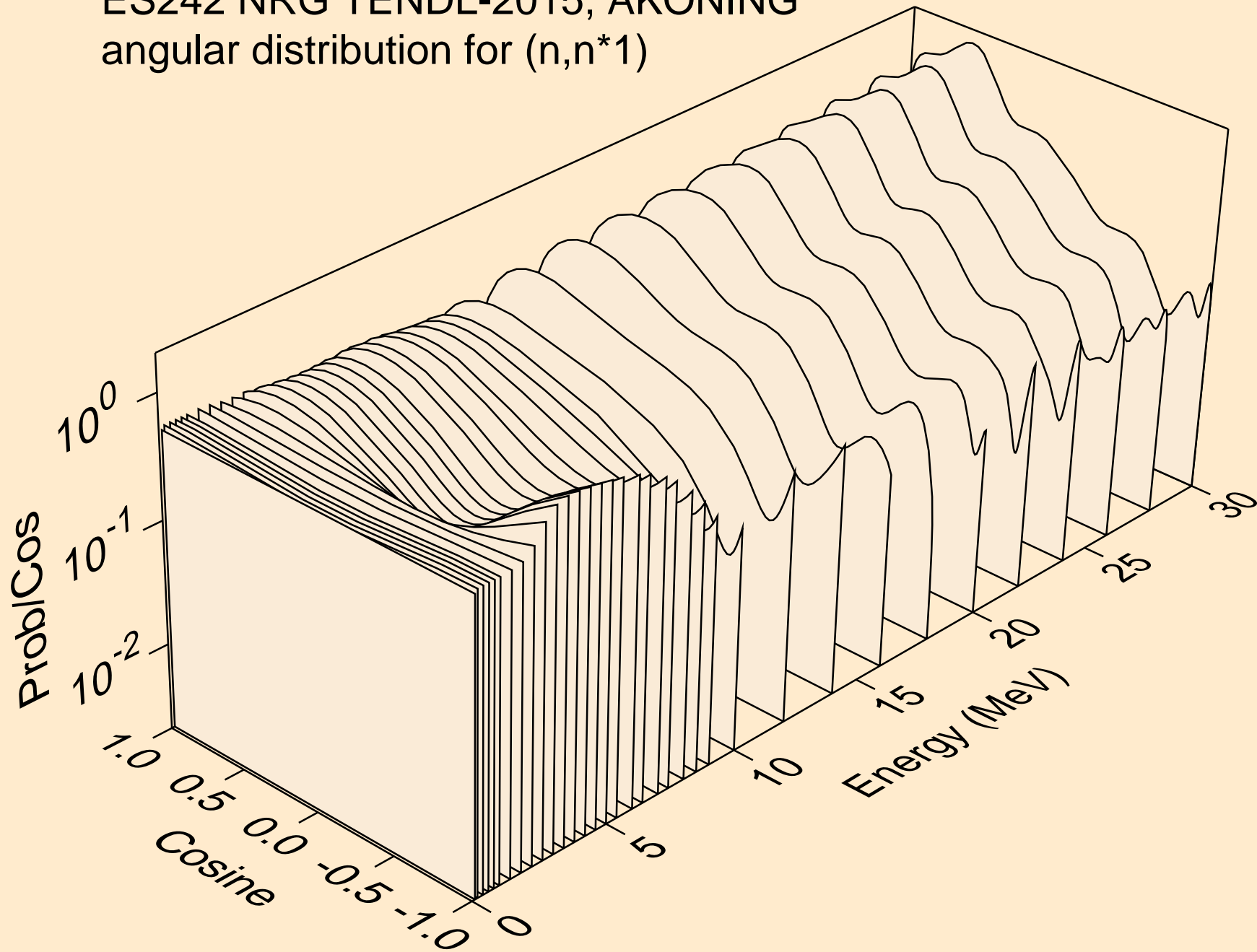
ES242 NRG TENDL-2015, AKONING  
angular distribution for elastic



ES242 NRG TENDL-2015, AKONING  
angular distribution for elastic



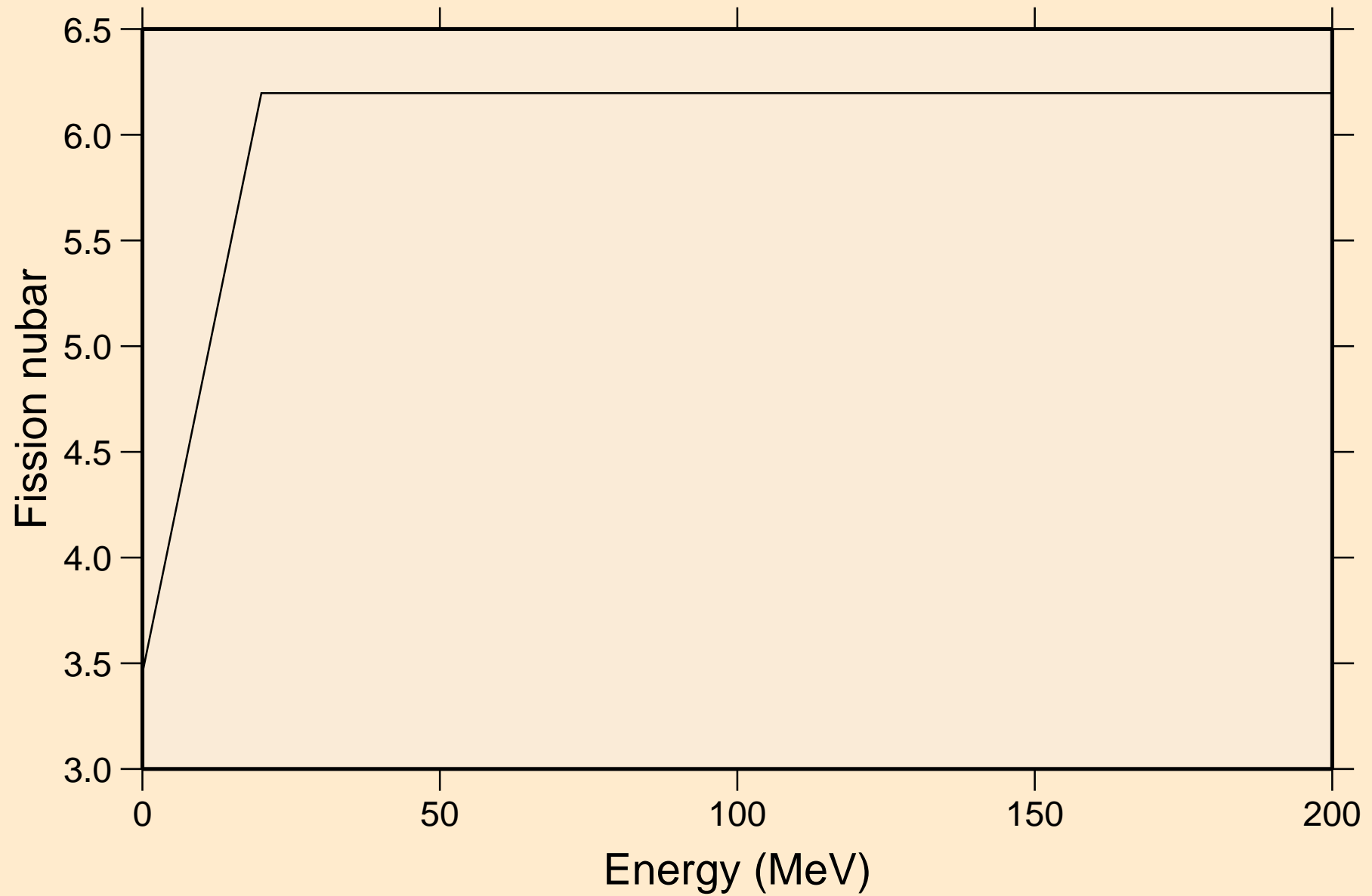
ES242 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*1)



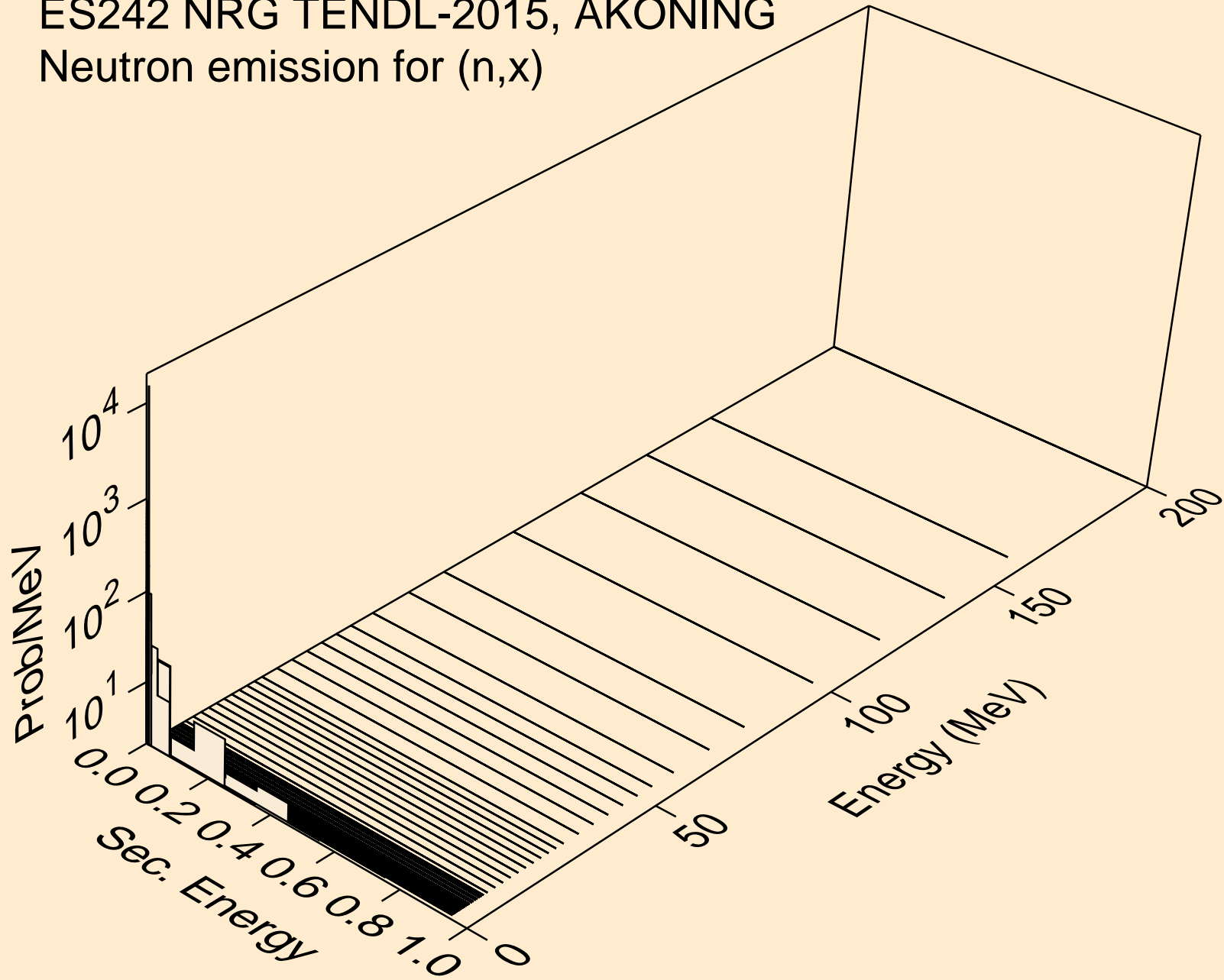


# ES242 NRG TENDL-2015, AKONING

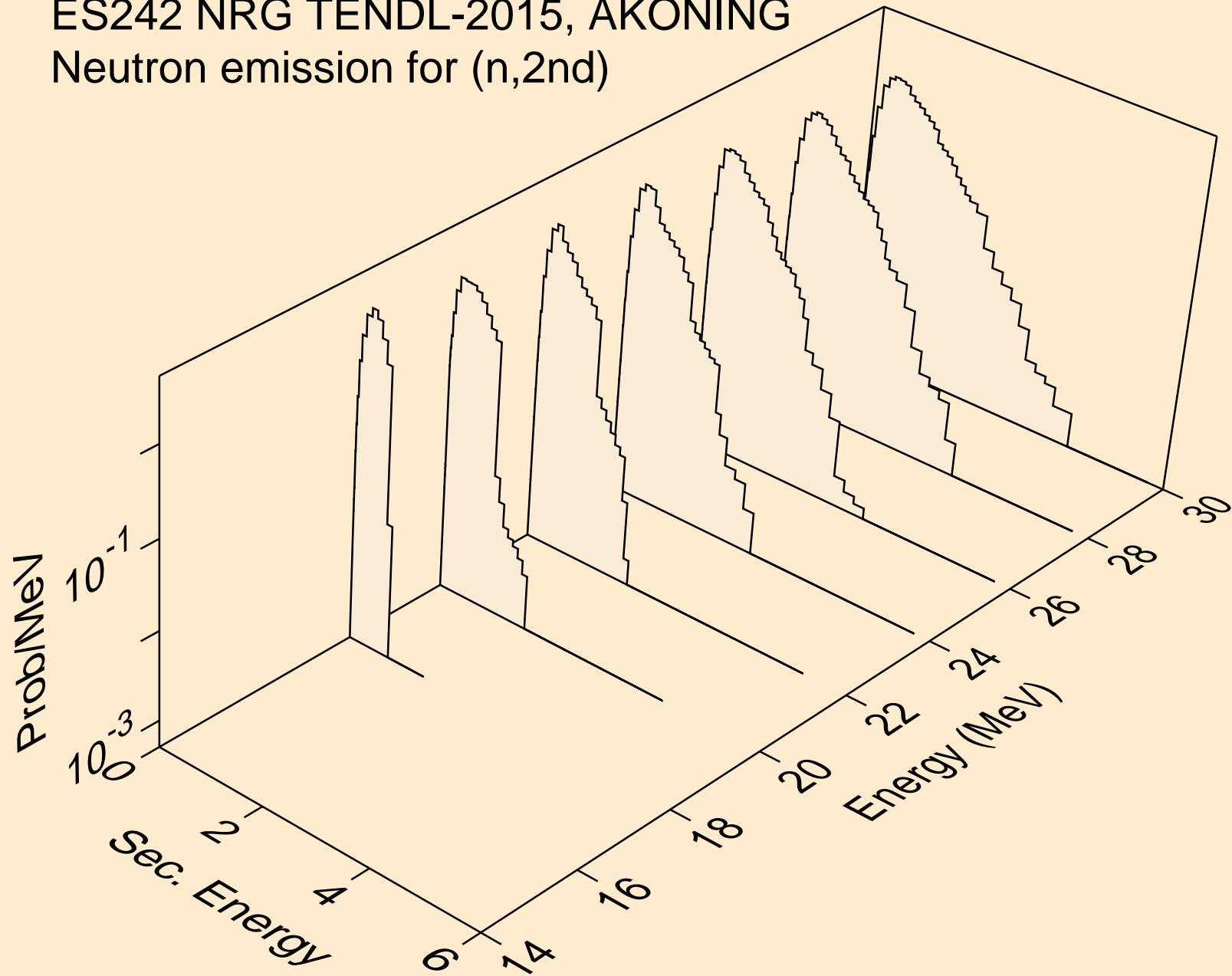
Total fission nubar



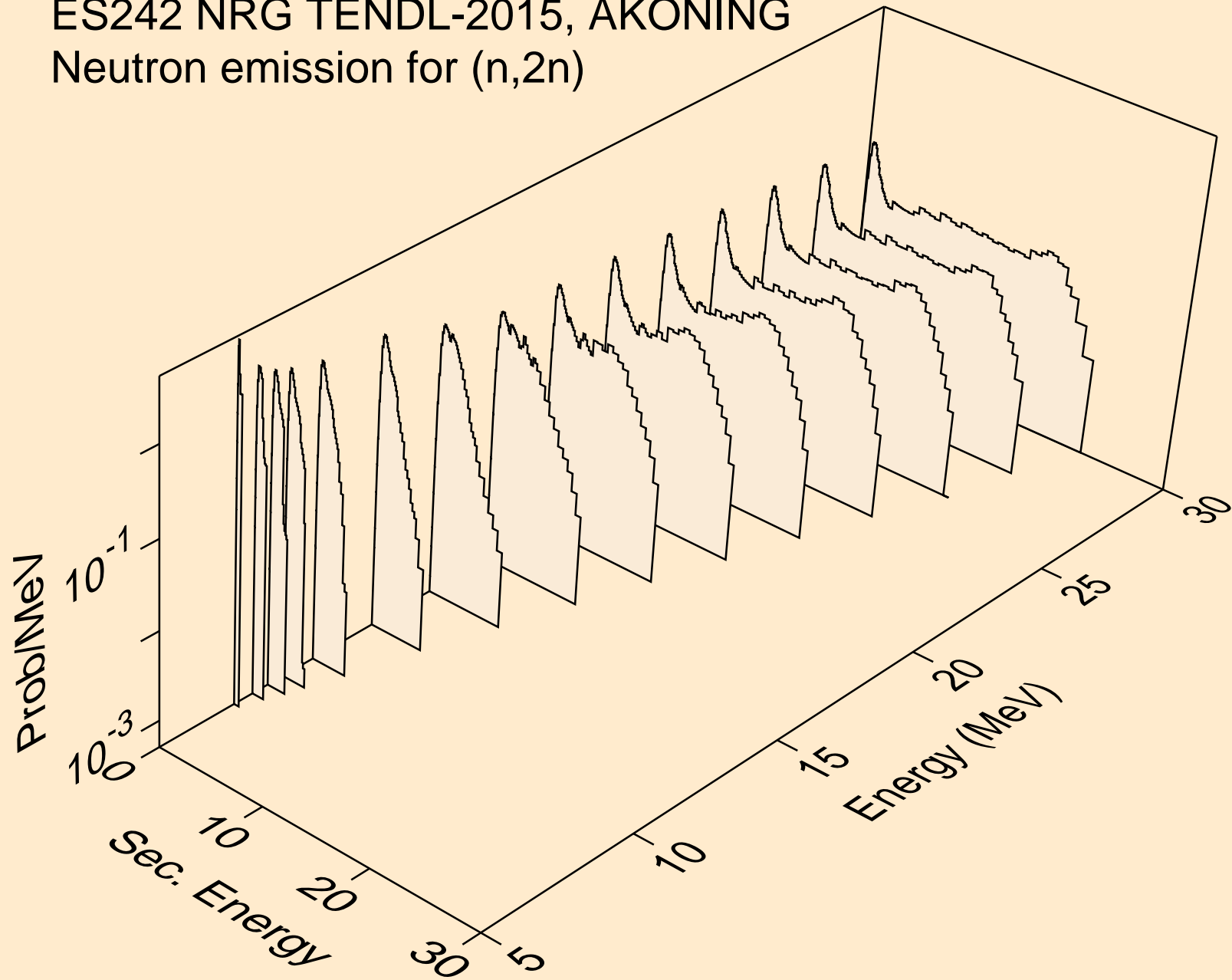
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,x)



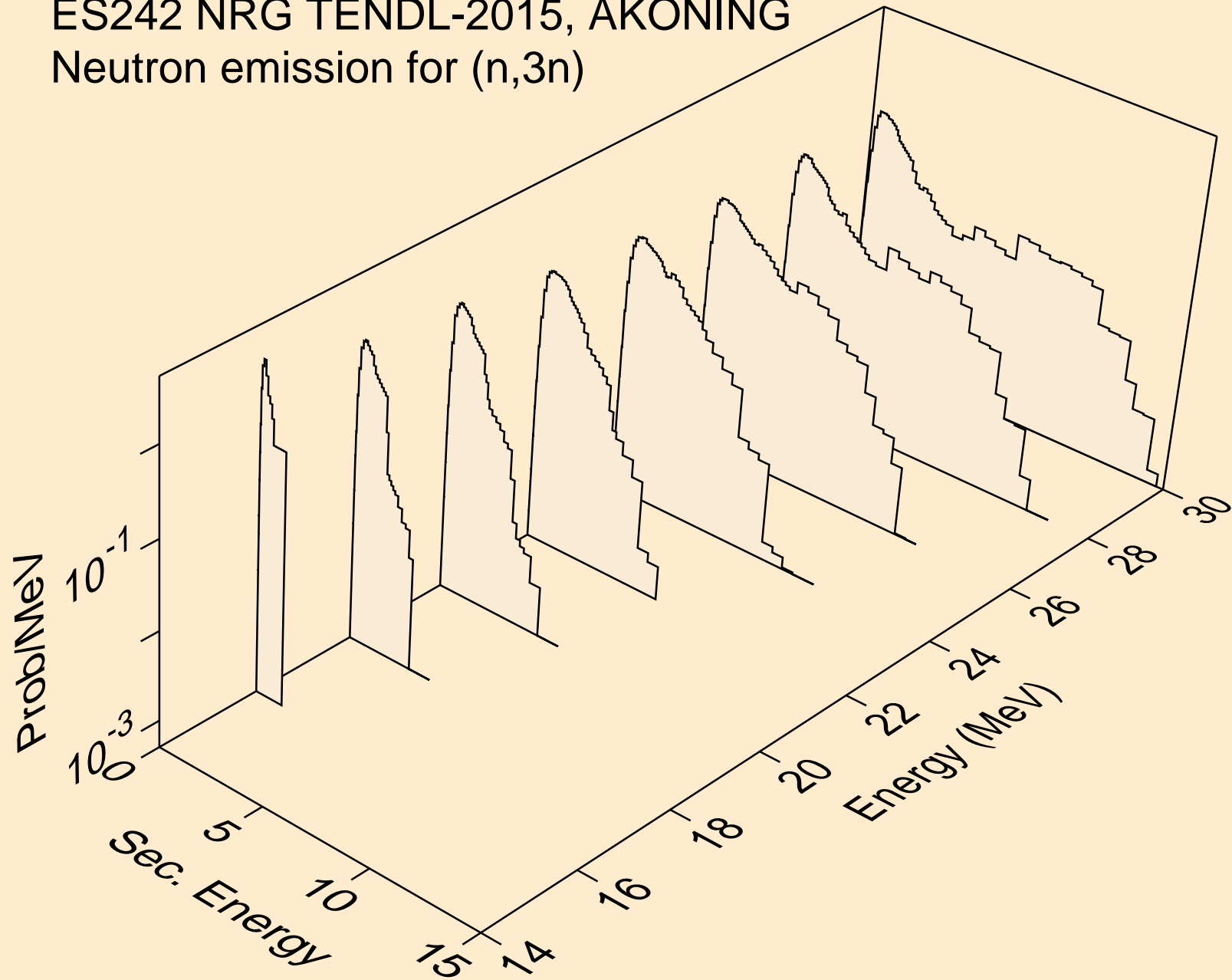
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,2nd)



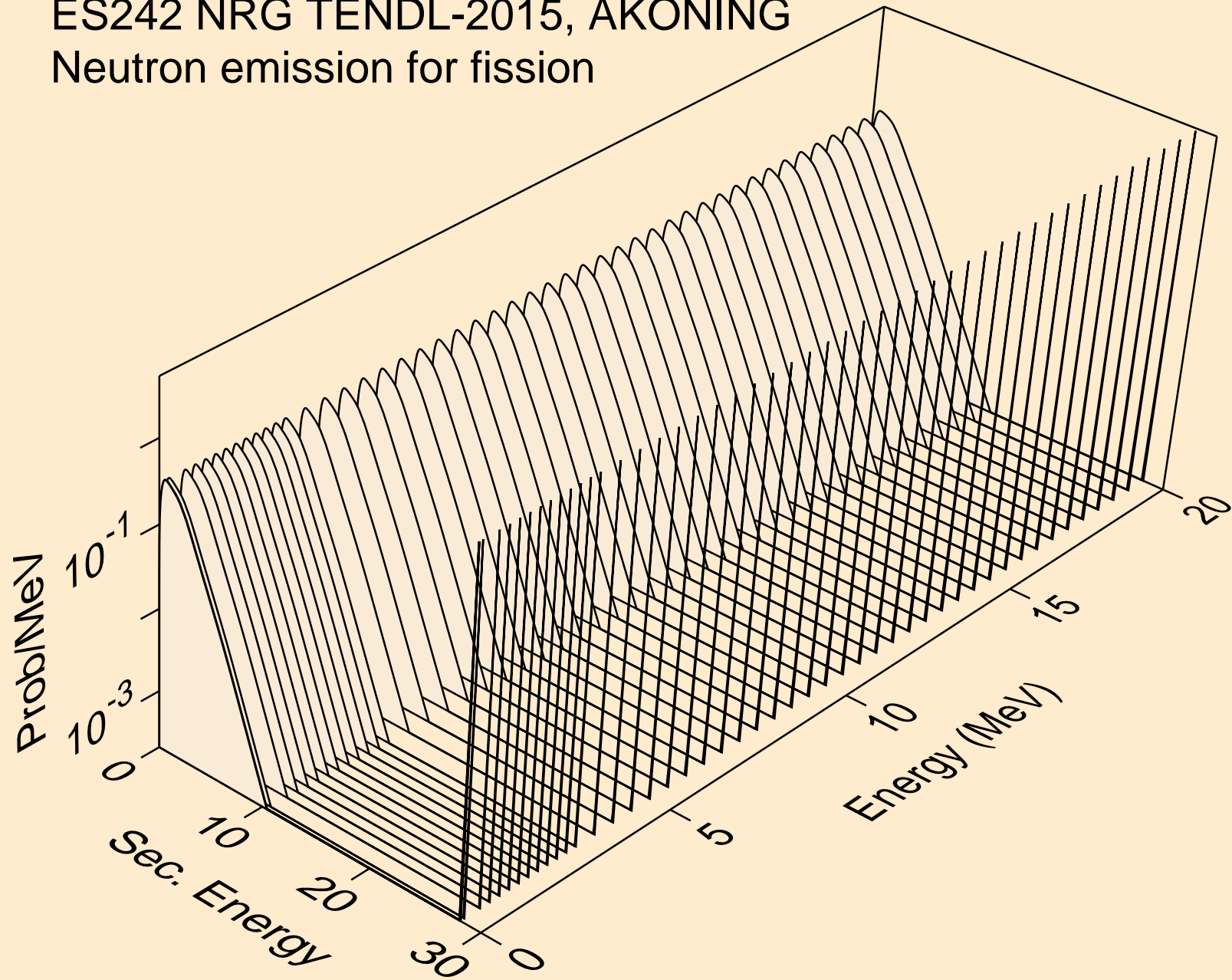
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)



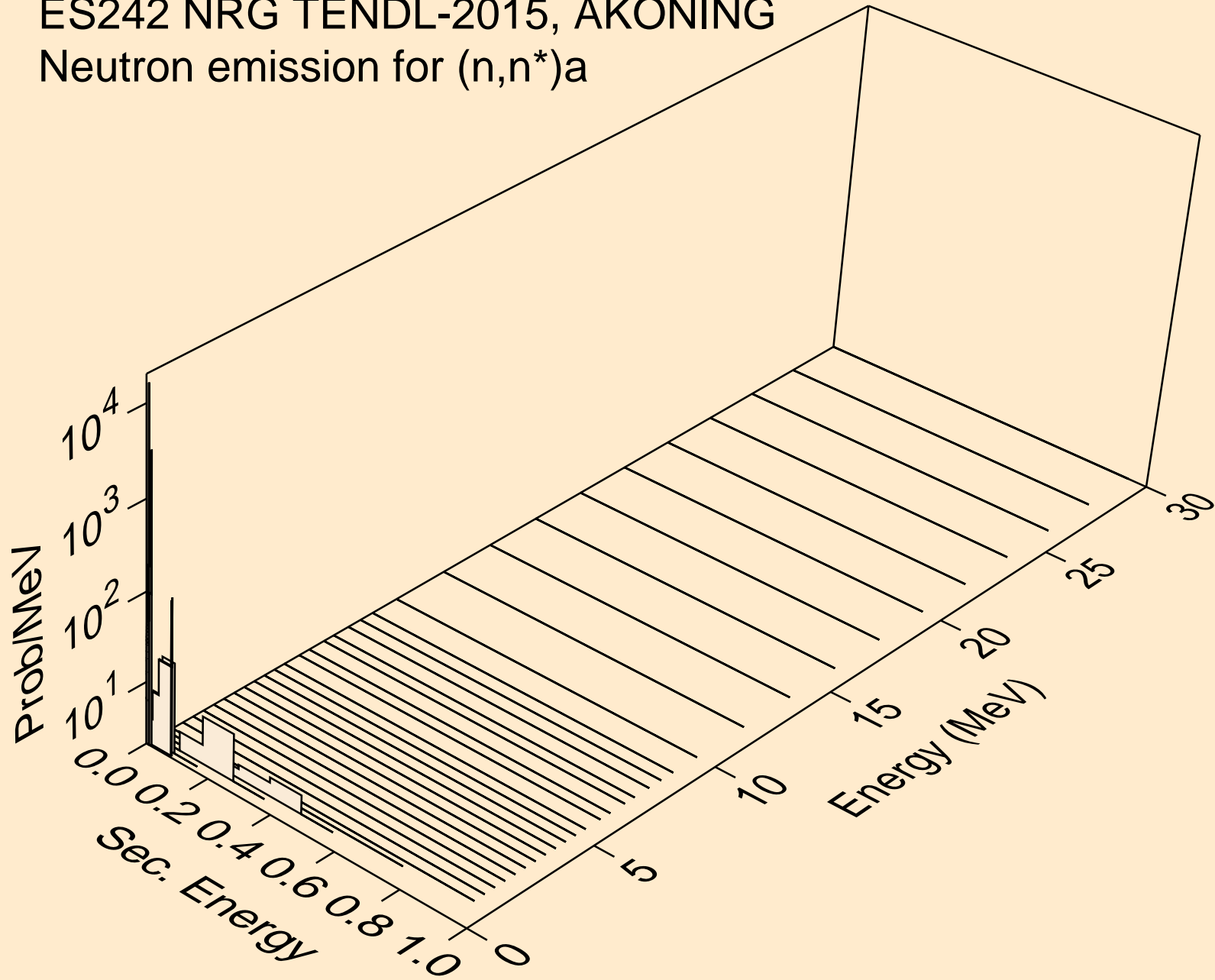
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)



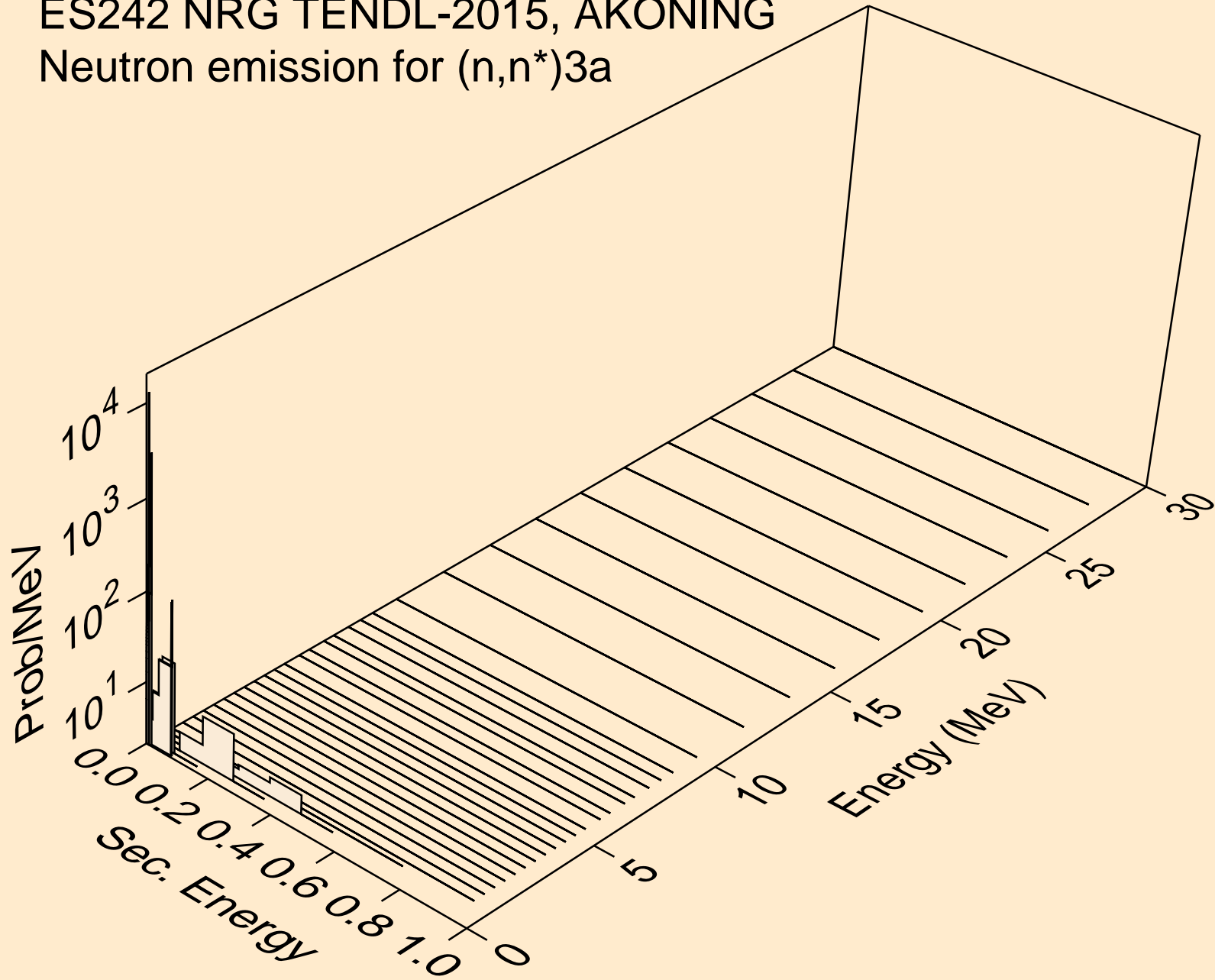
ES242 NRG TENDL-2015, AKONING  
Neutron emission for fission



ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)a

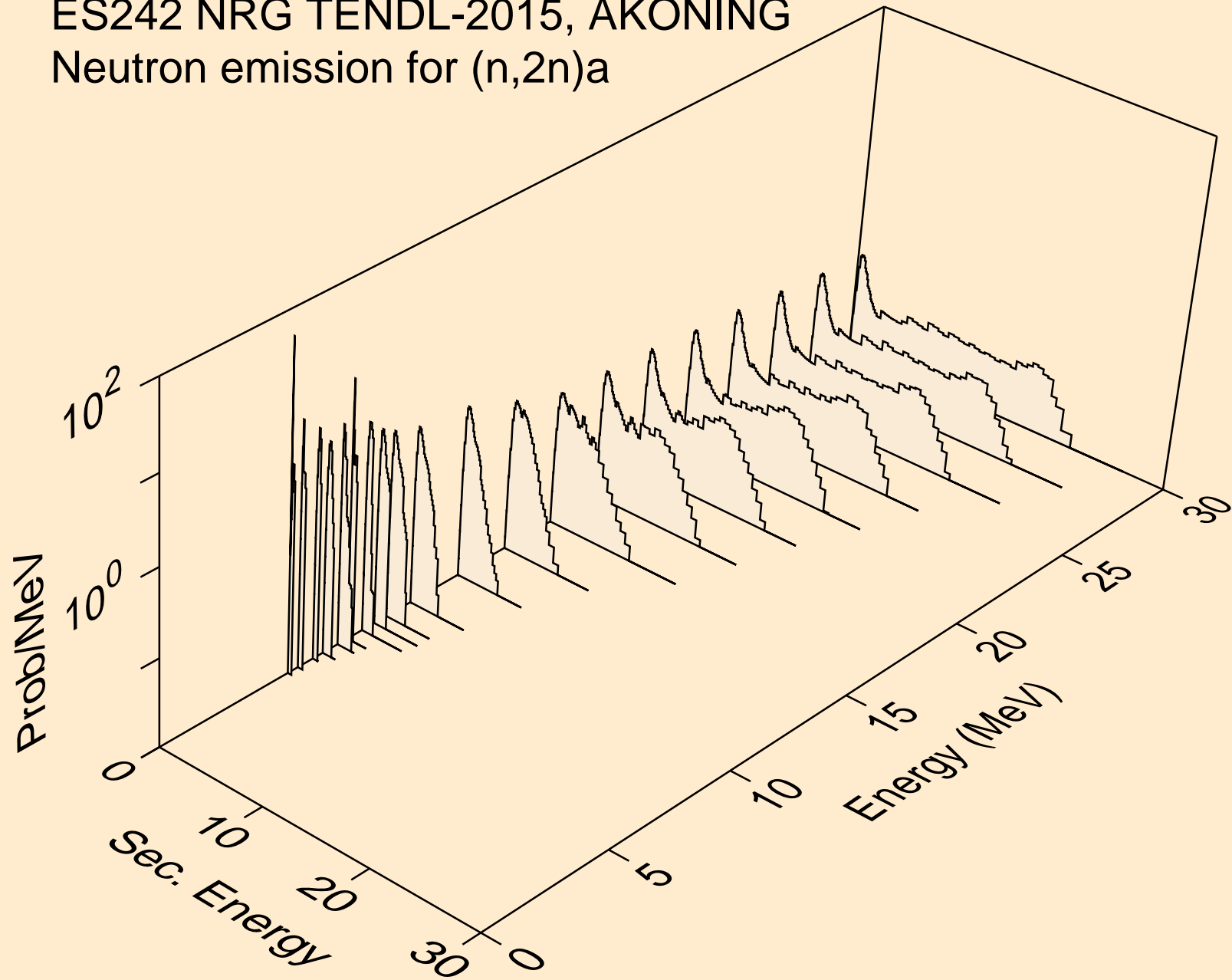


ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)3a

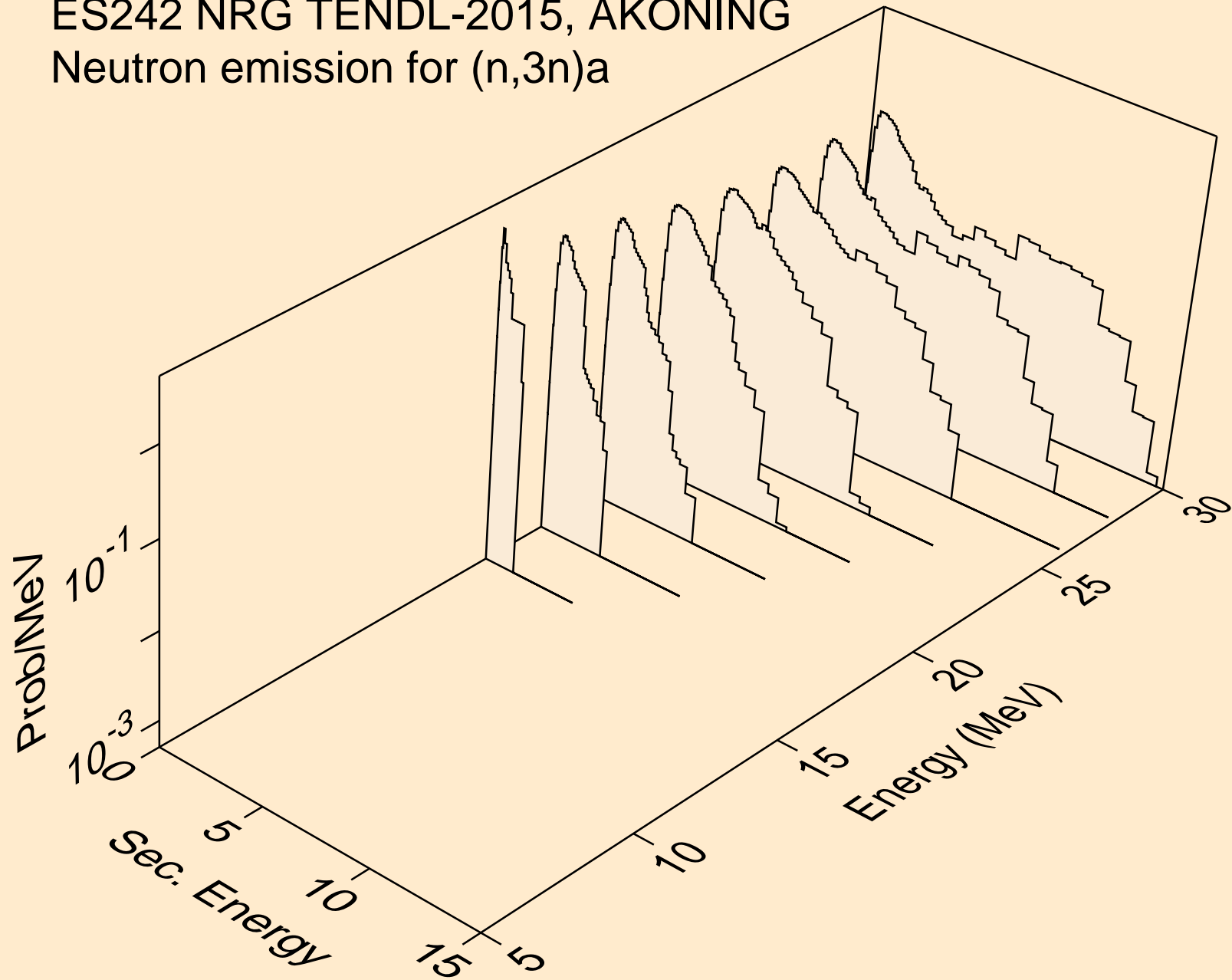




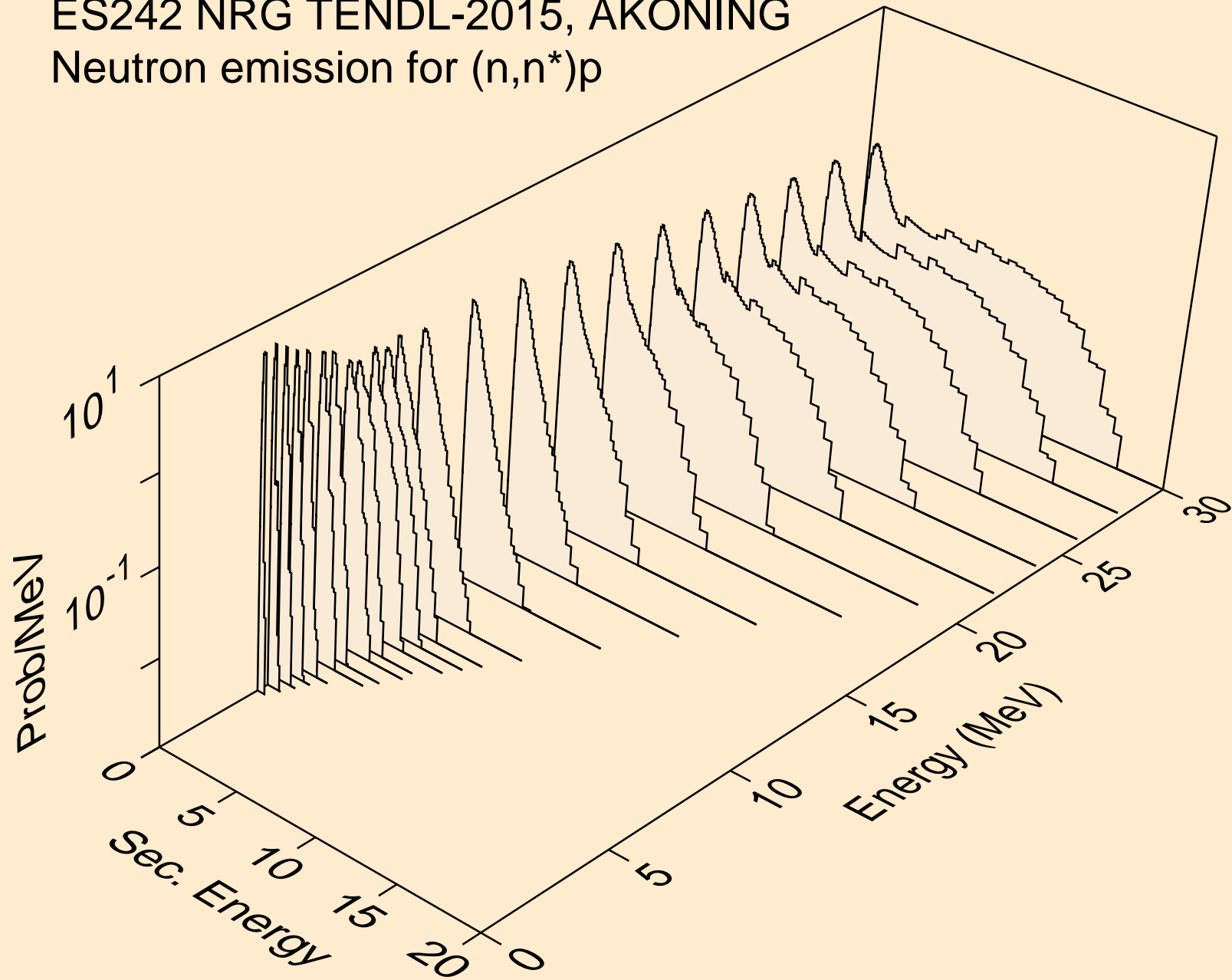
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)a



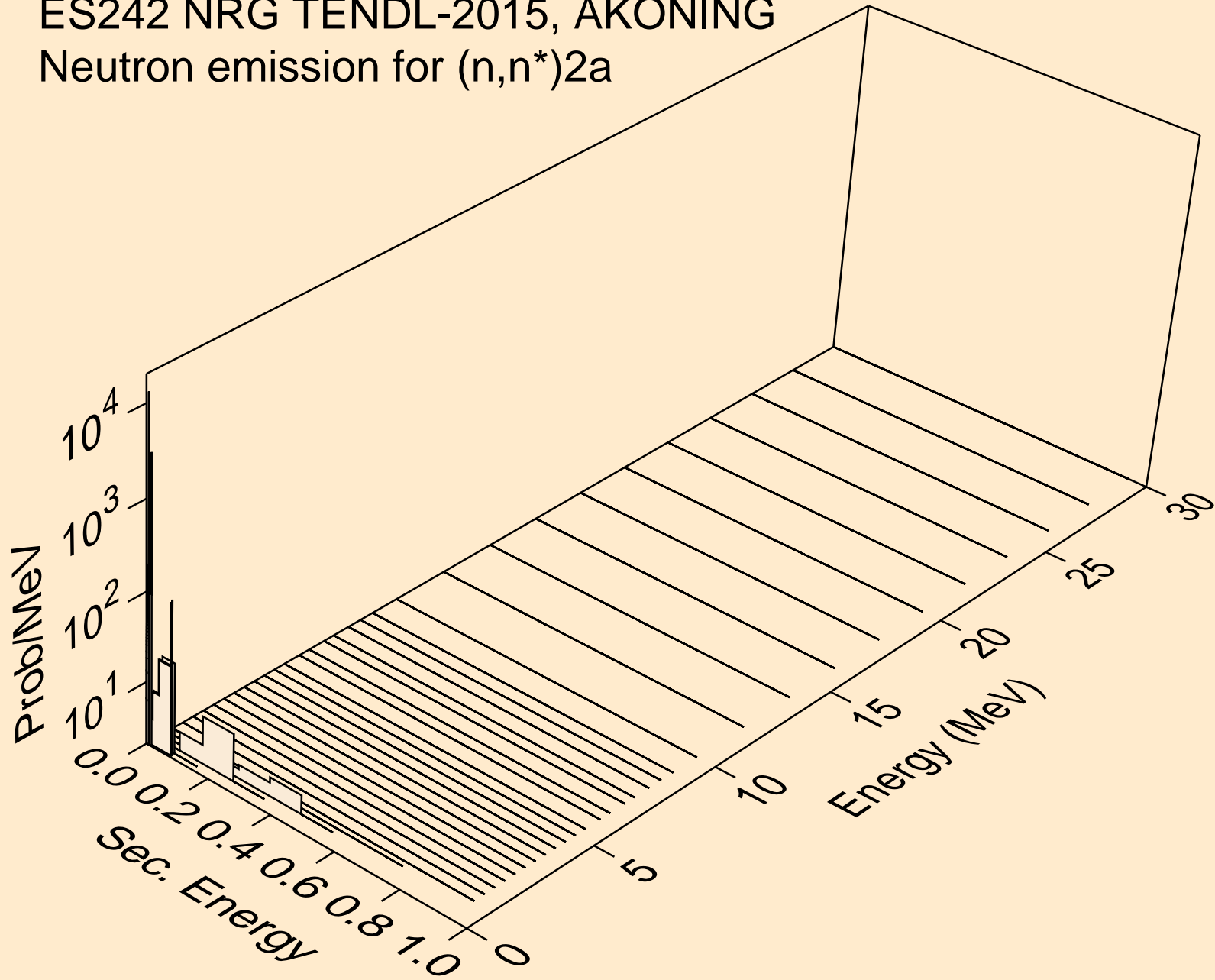
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)a



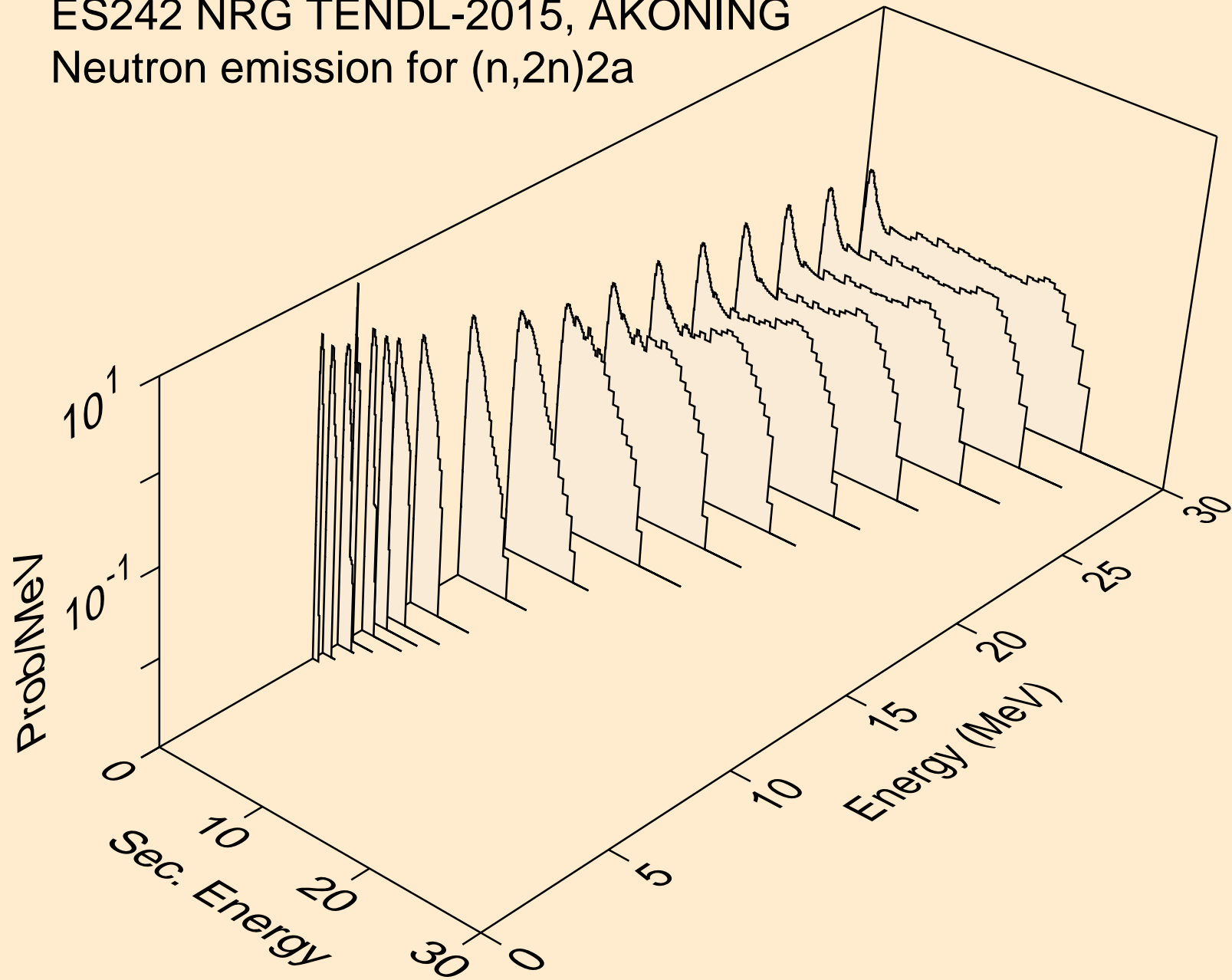
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)p



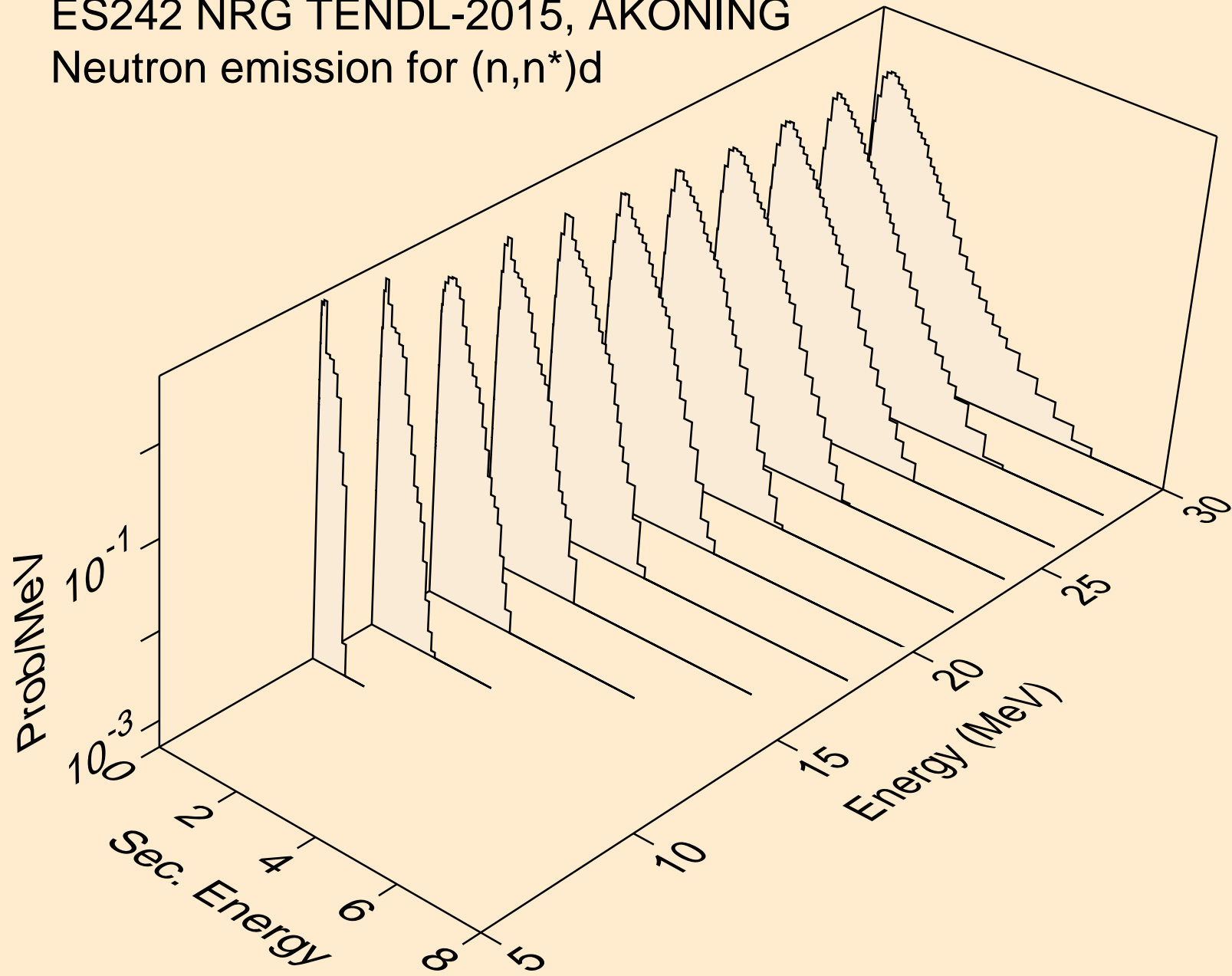
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)2a



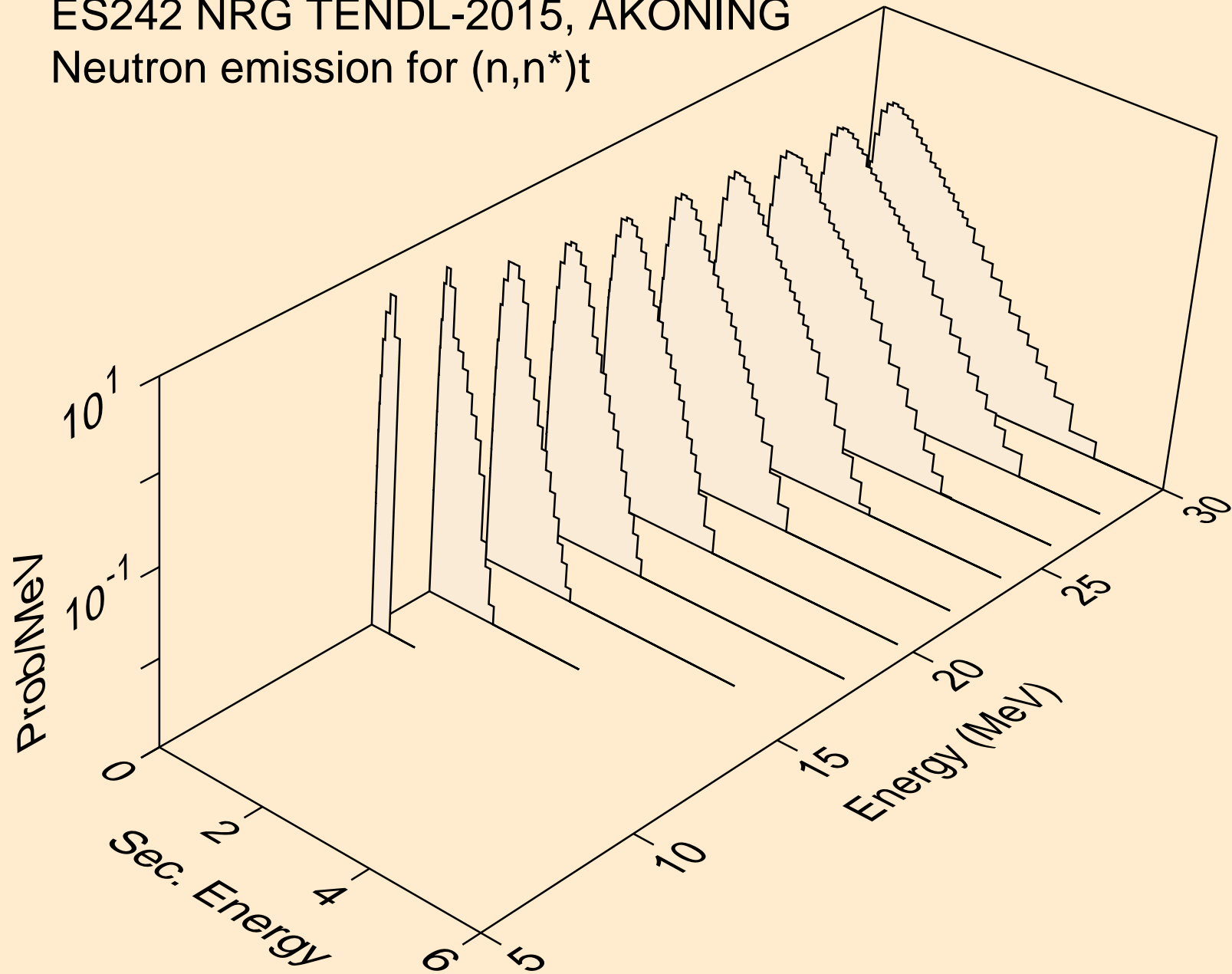
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)2a



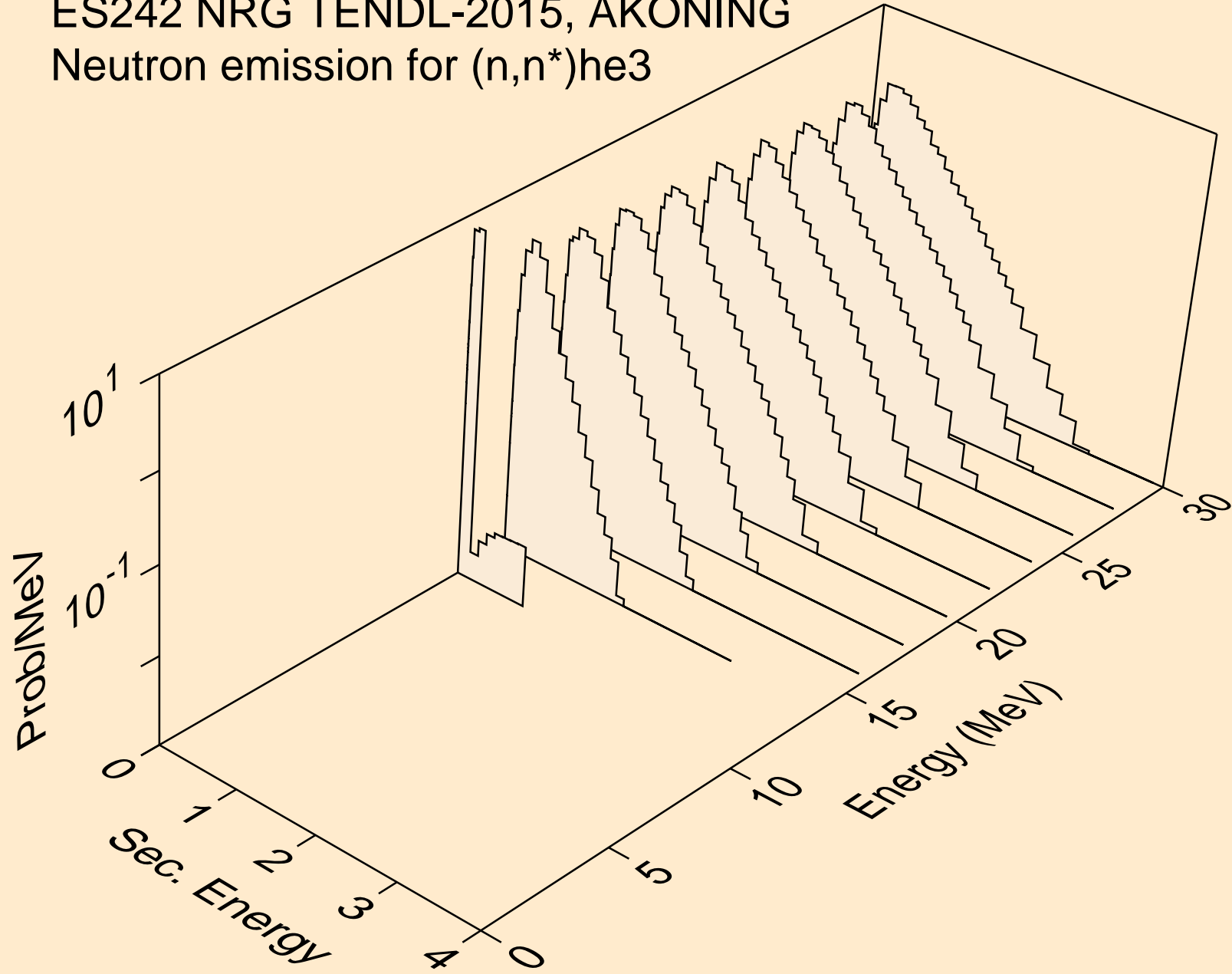
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d



ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t

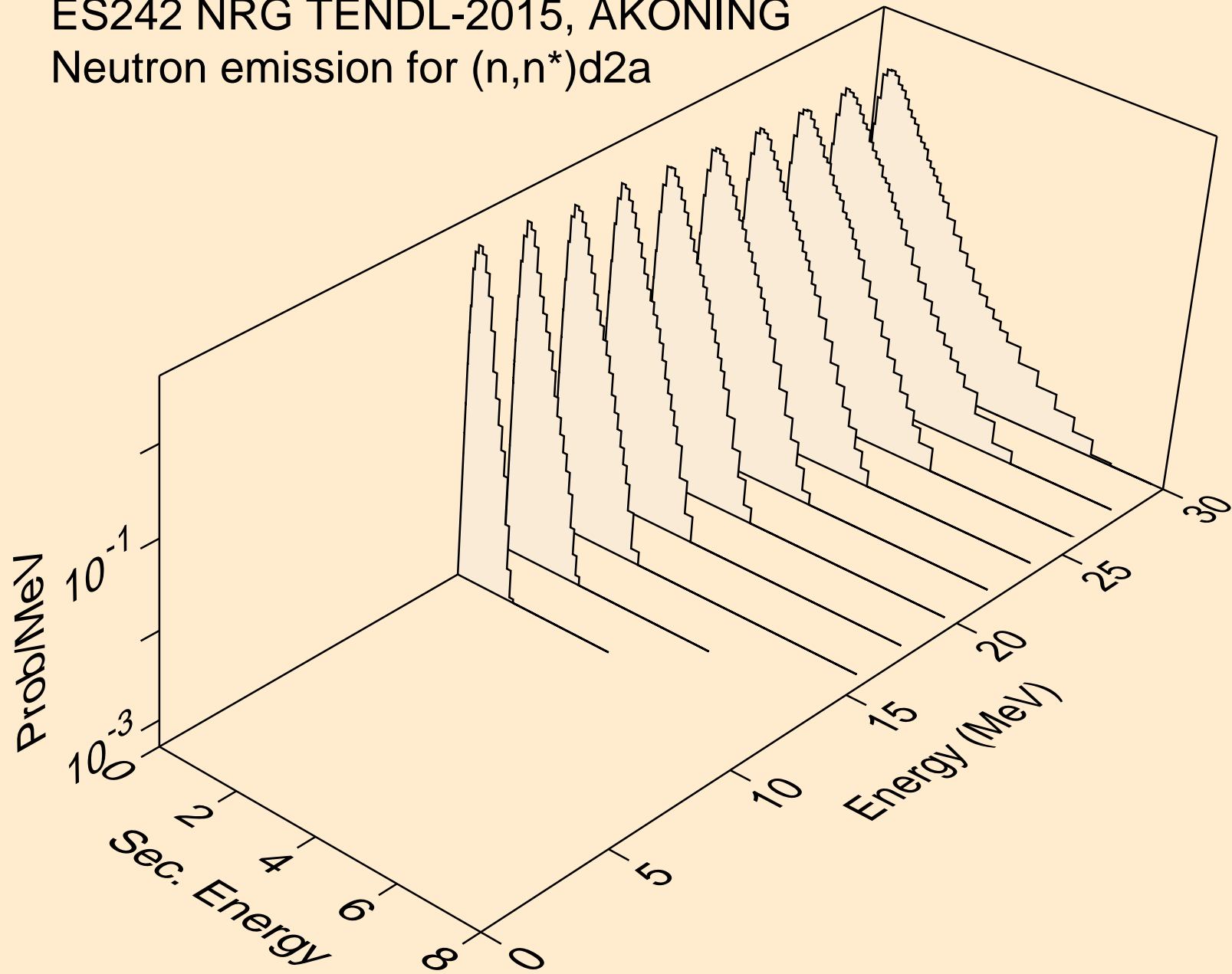


ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)he3

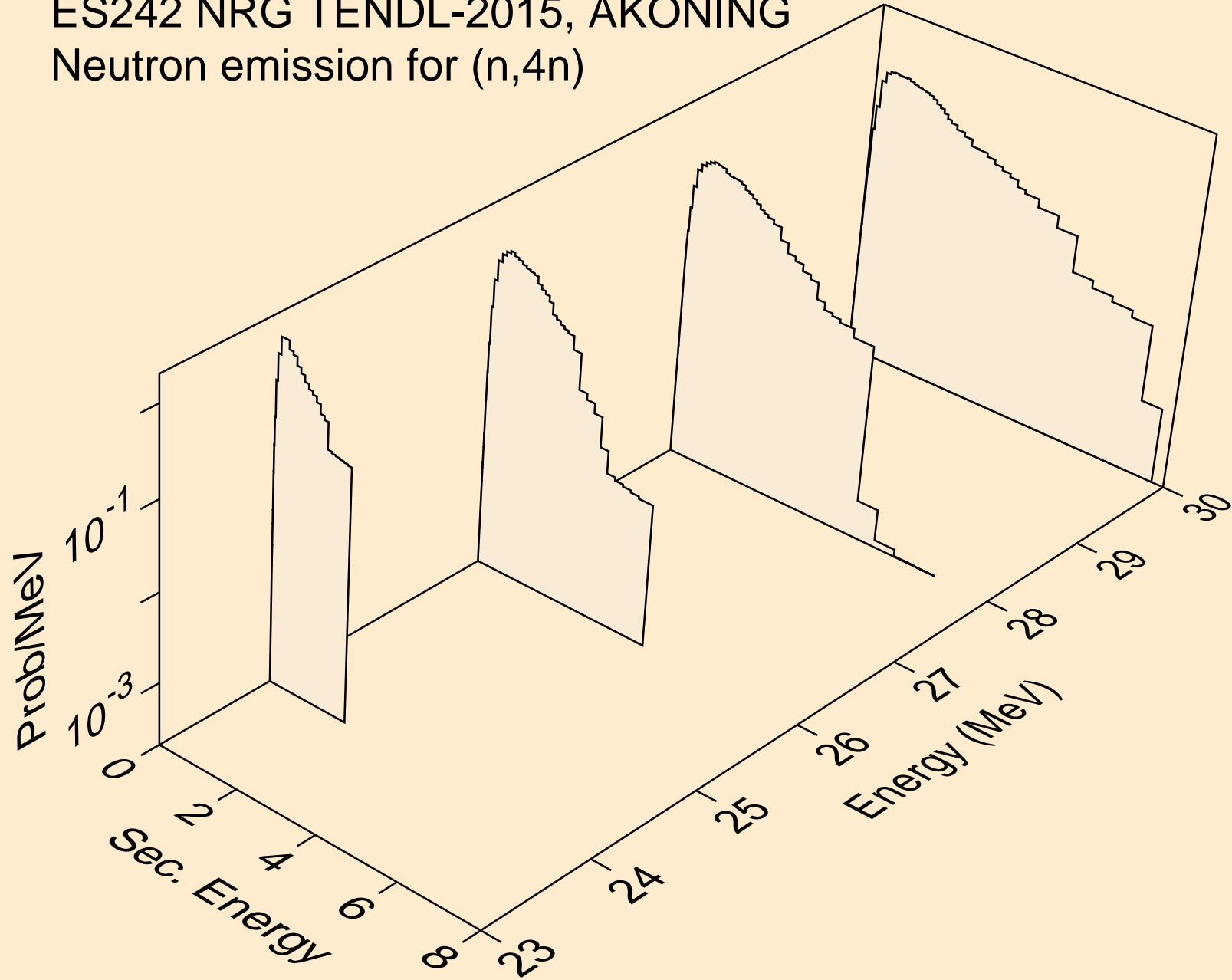




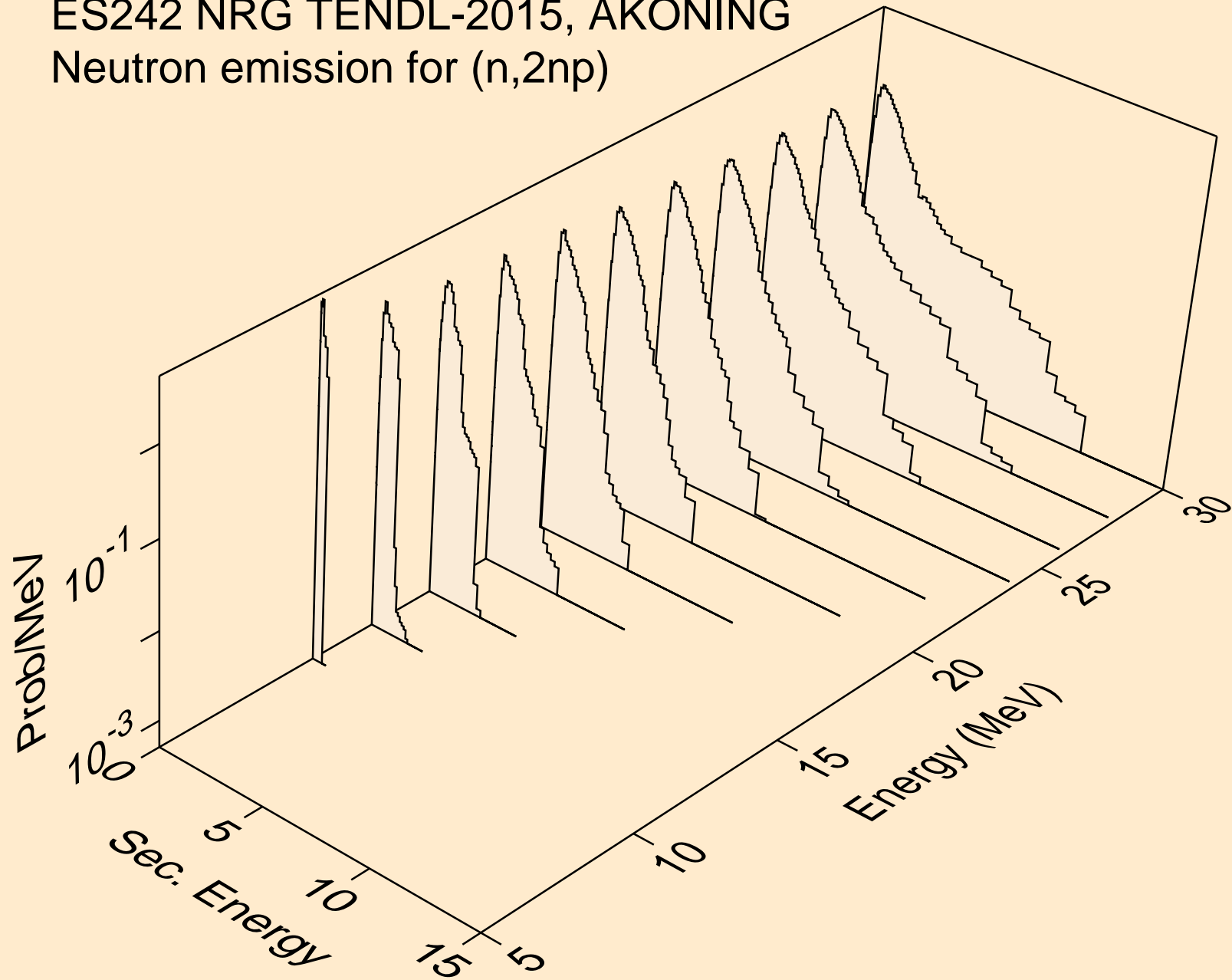
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d2a



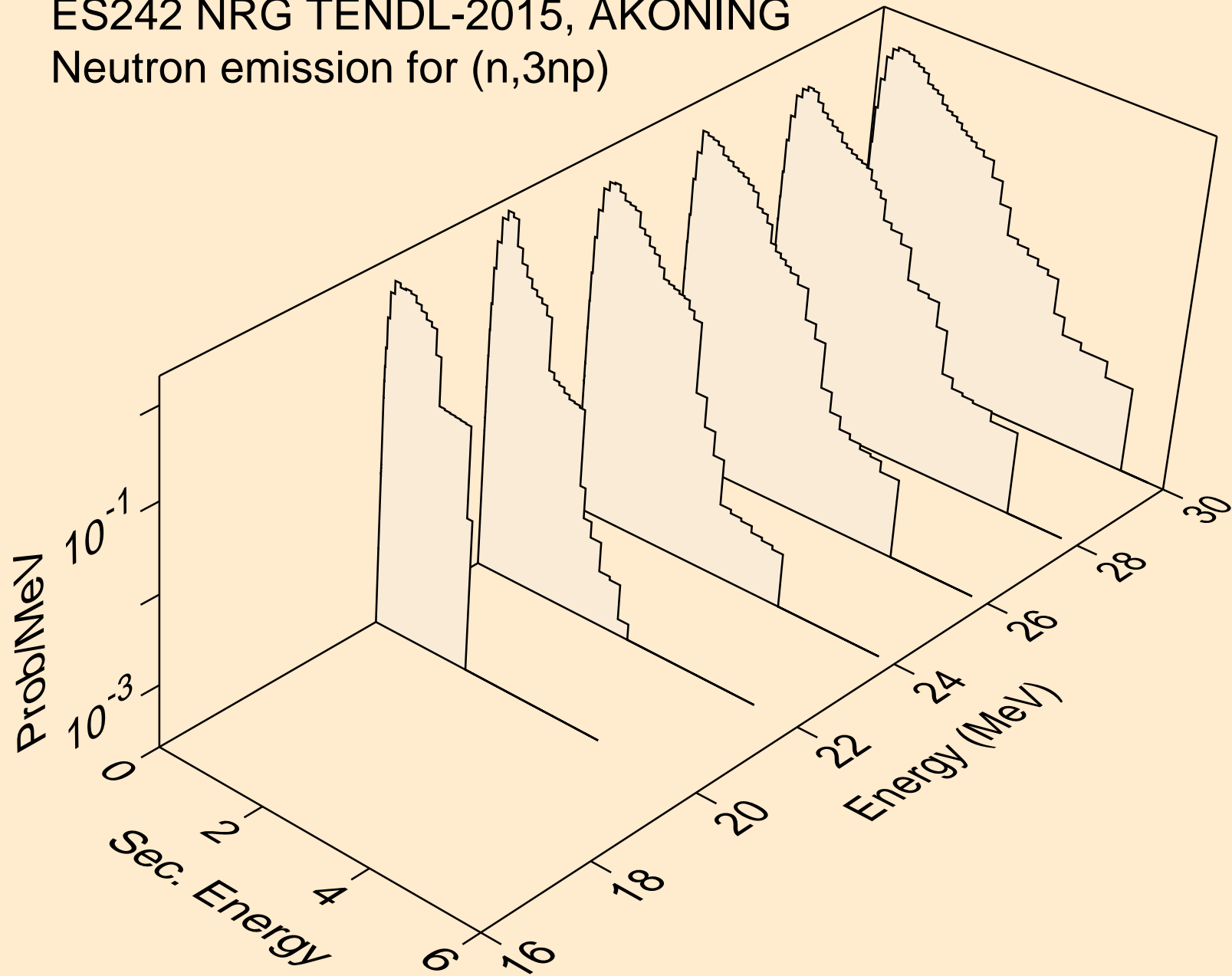
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,4n)



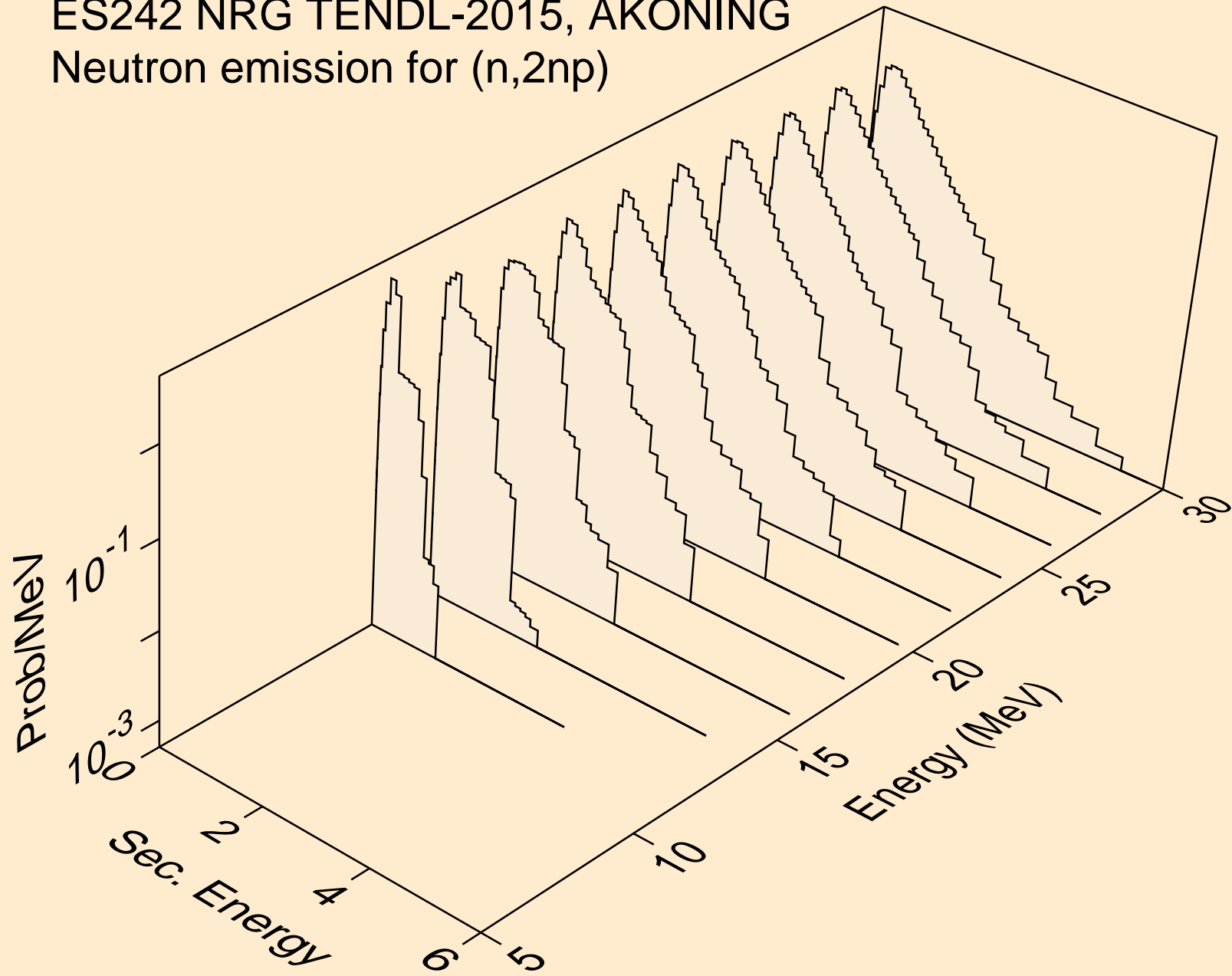
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



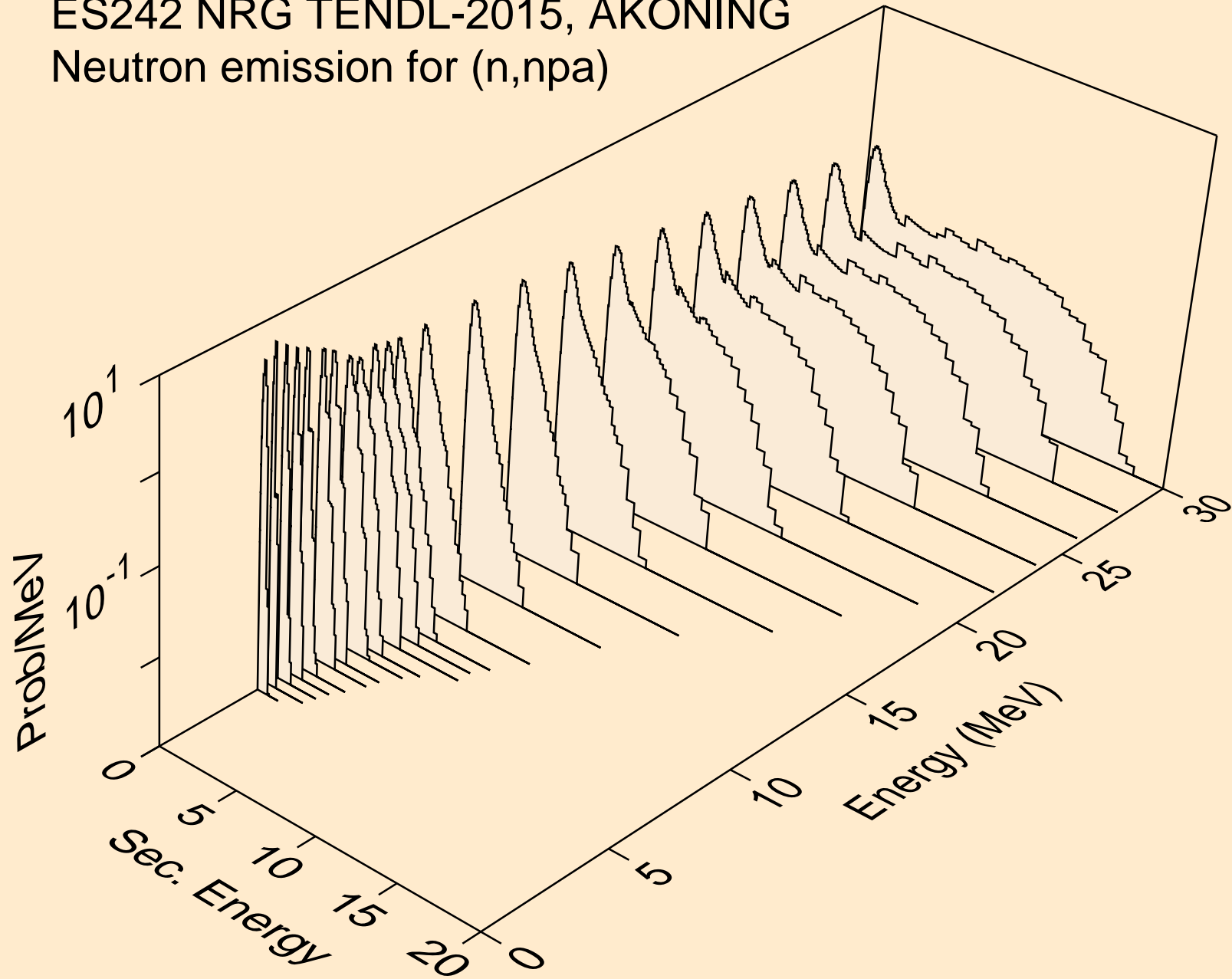
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,3np)



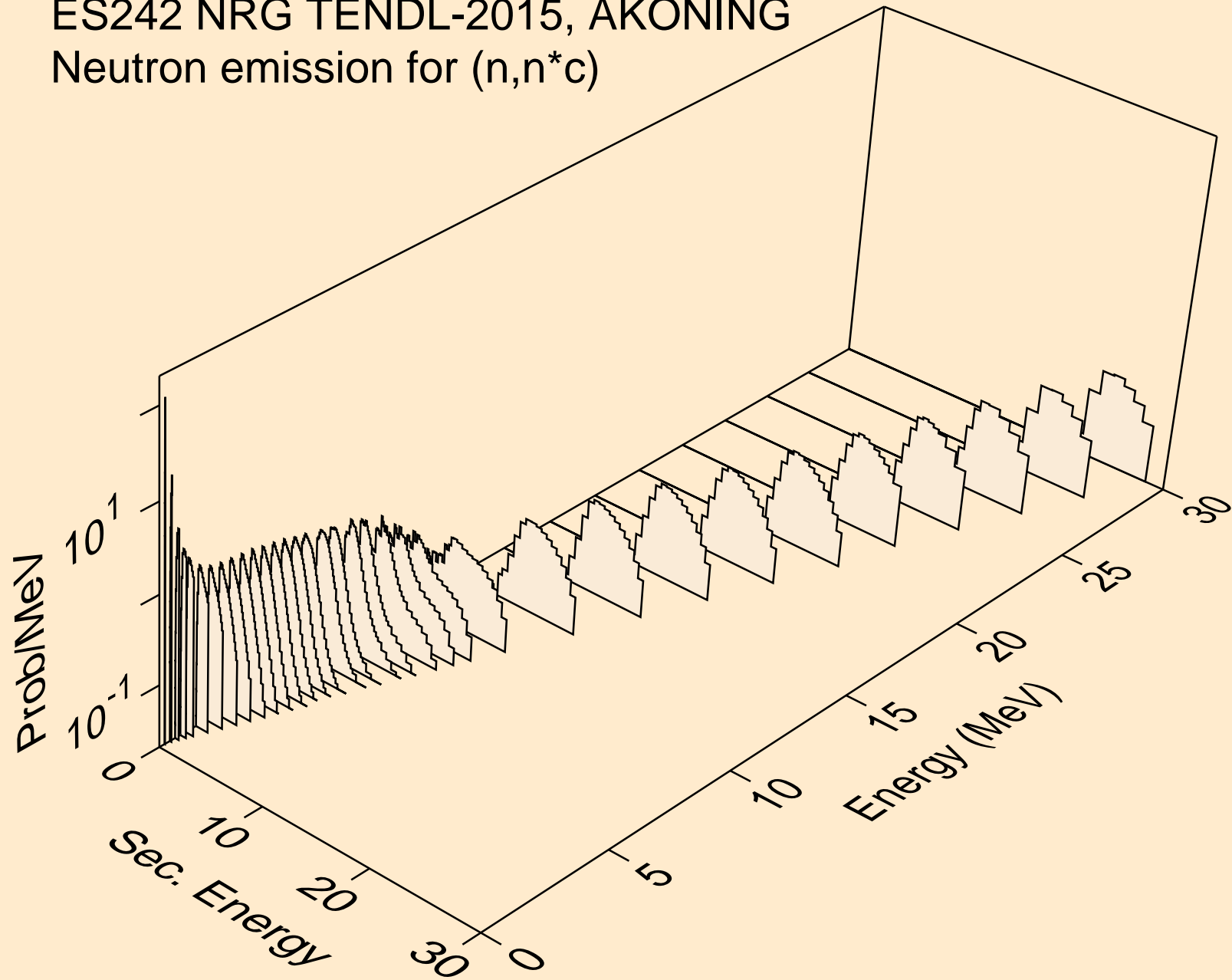
ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,npa)

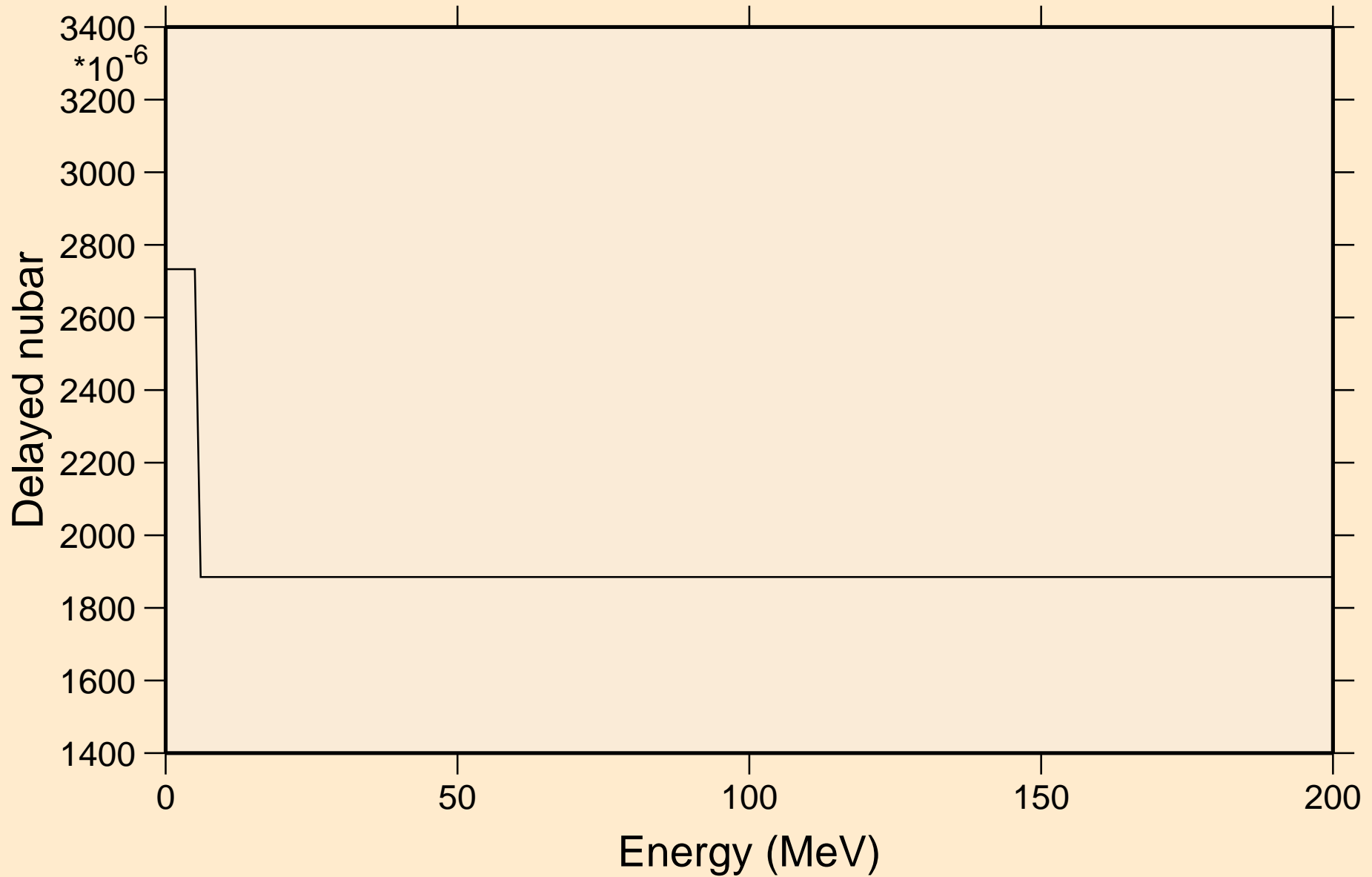


ES242 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*c)



# ES242 NRG TENDL-2015, AKONING

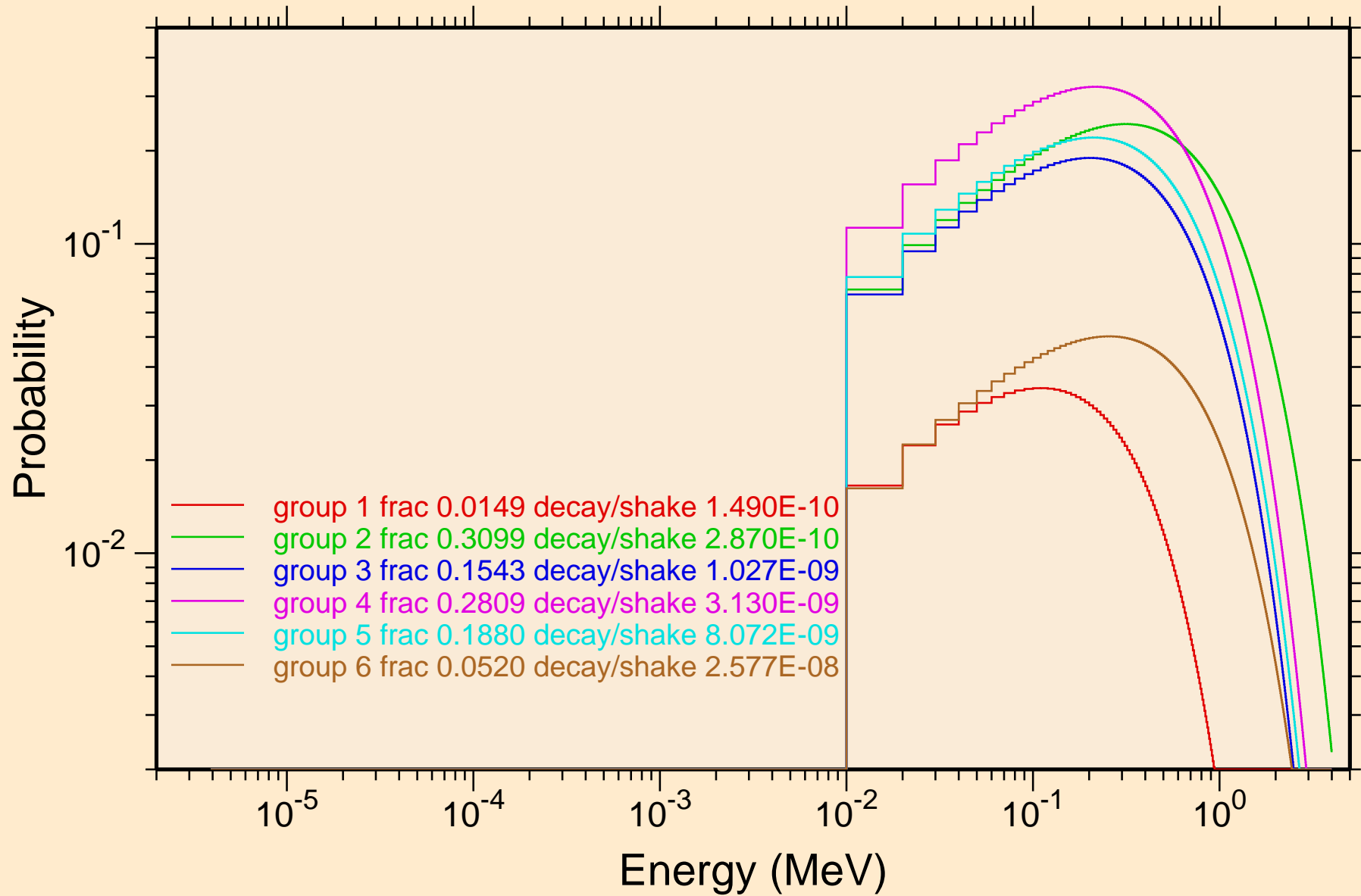
Delayed nubar



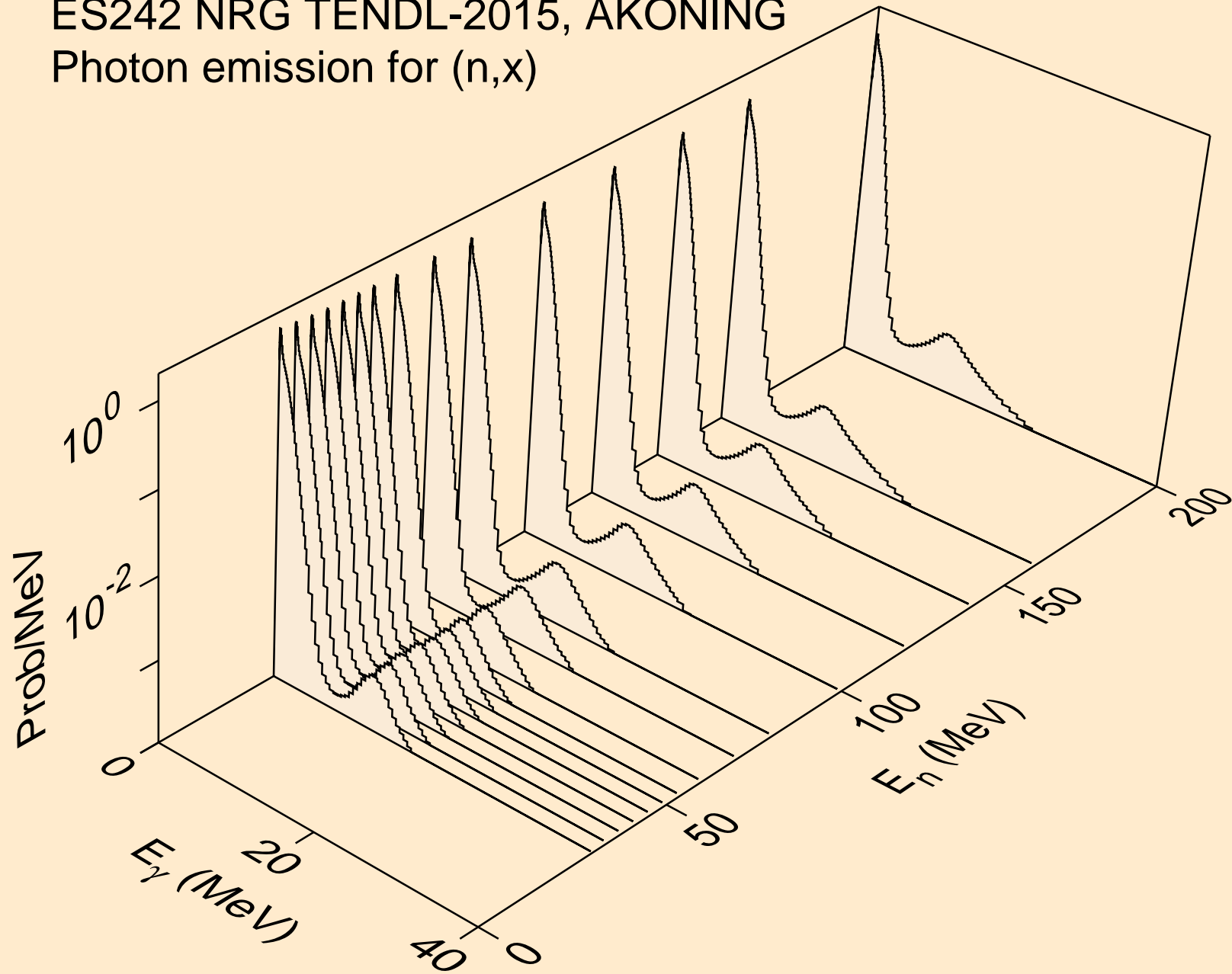


# ES242 NRG TENDL-2015, AKONING

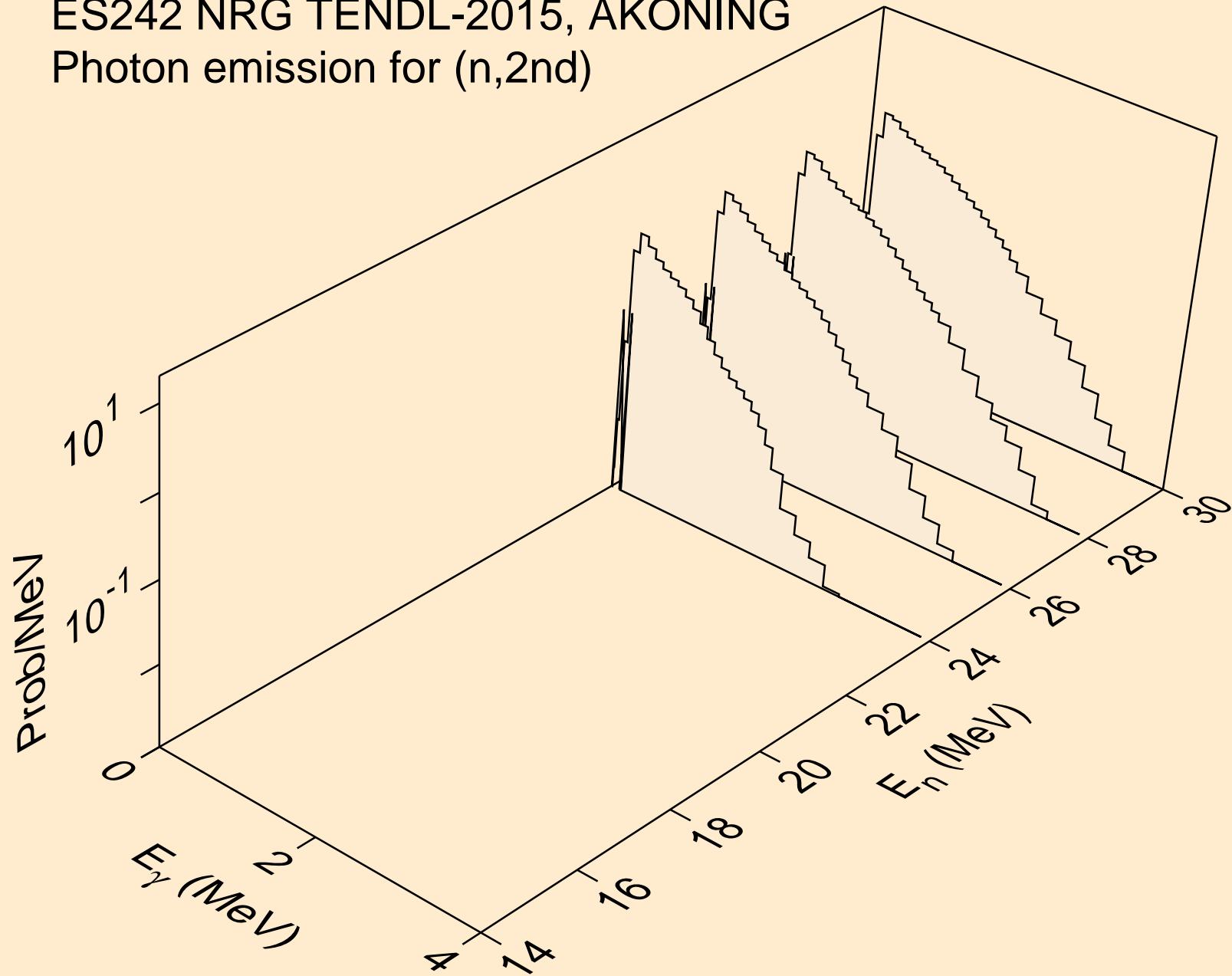
## Delayed neutron spectra



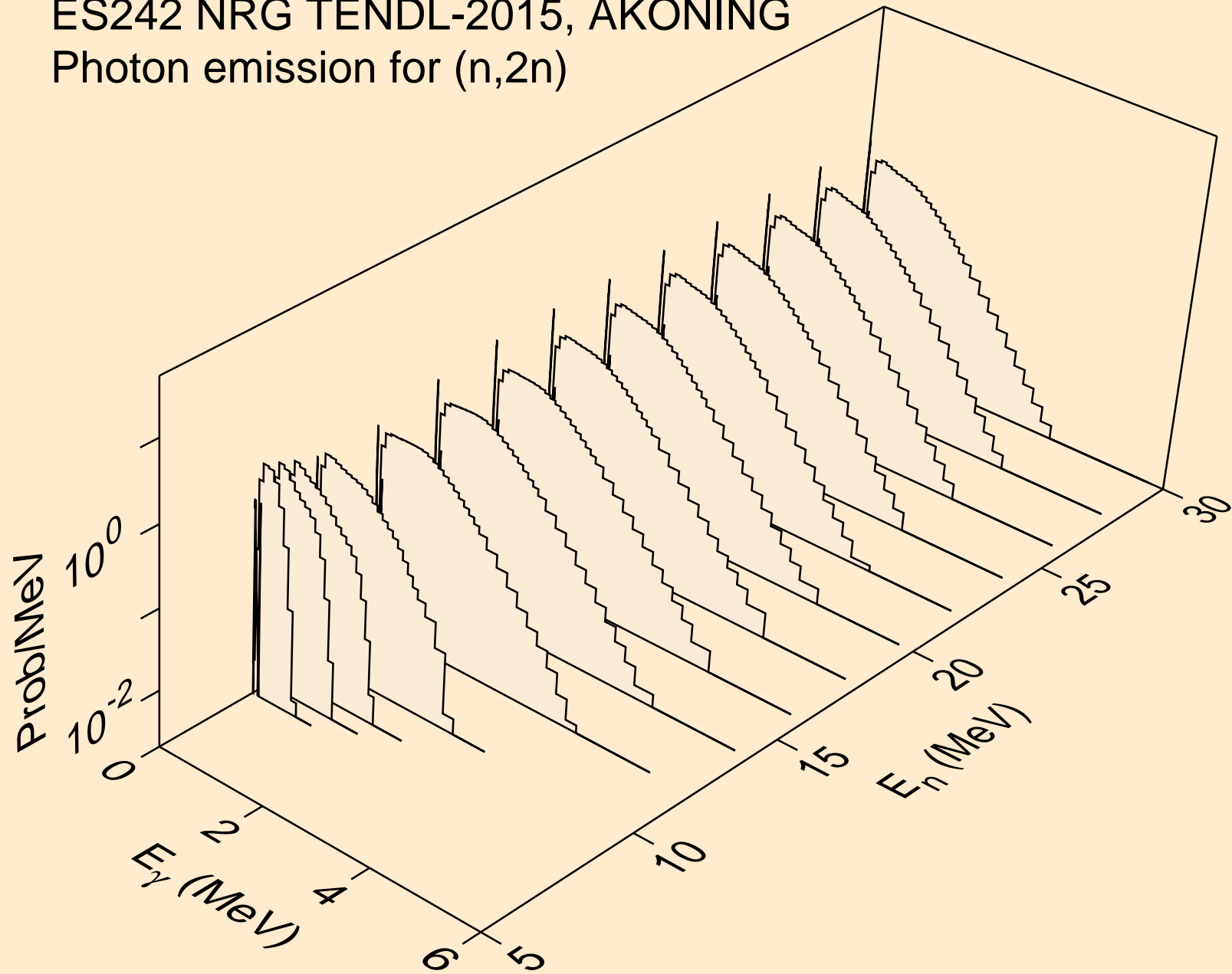
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,x)



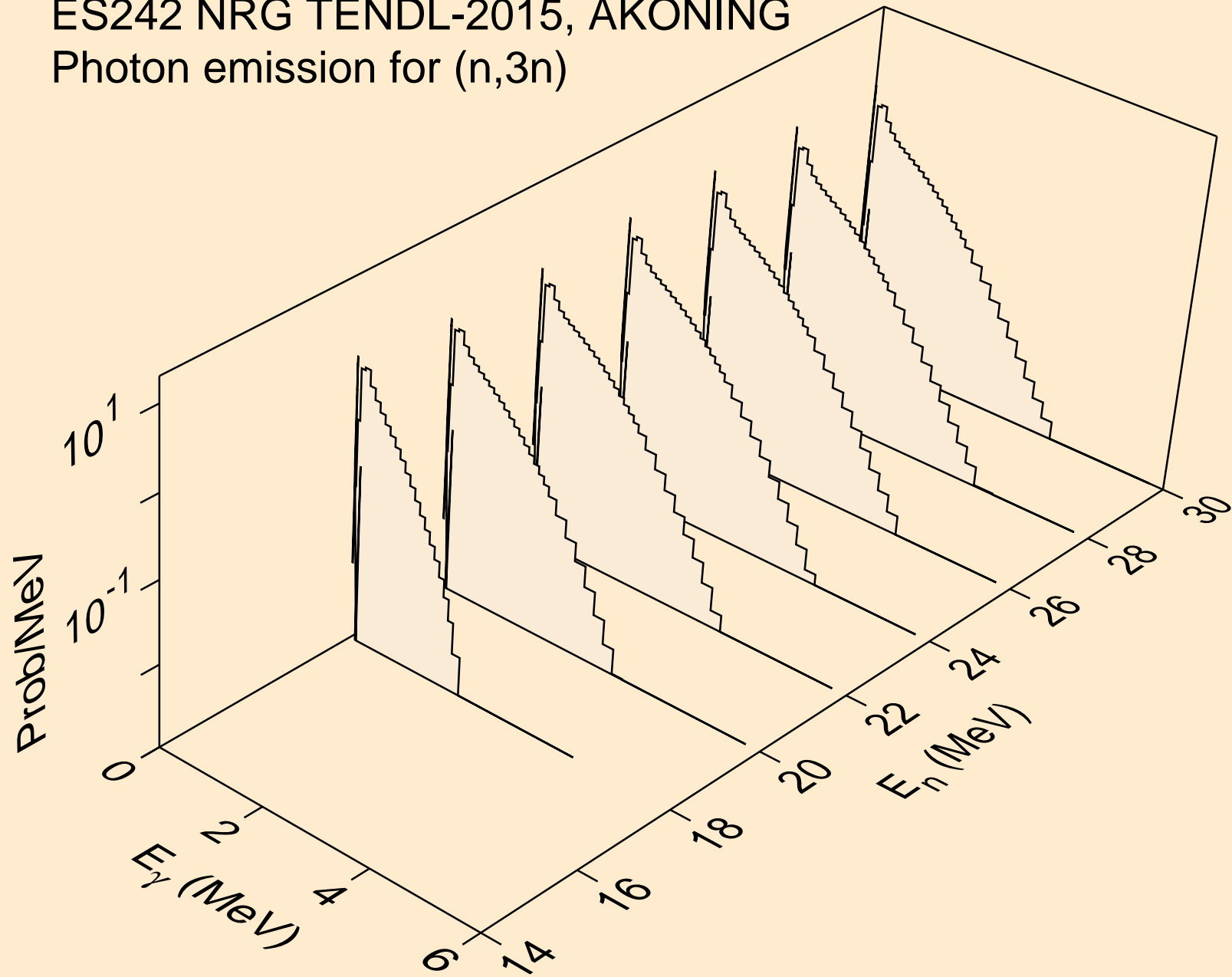
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,2nd)



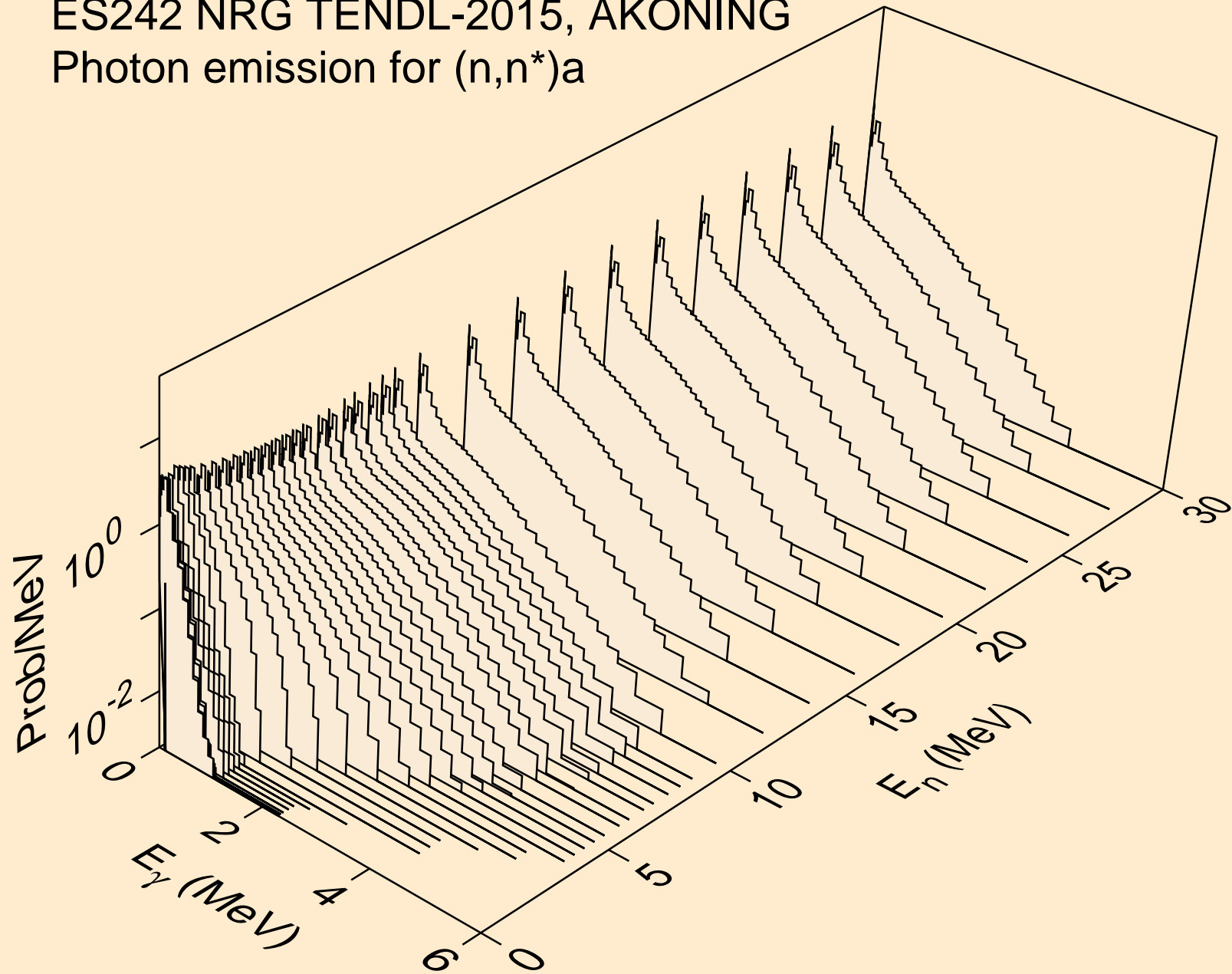
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)



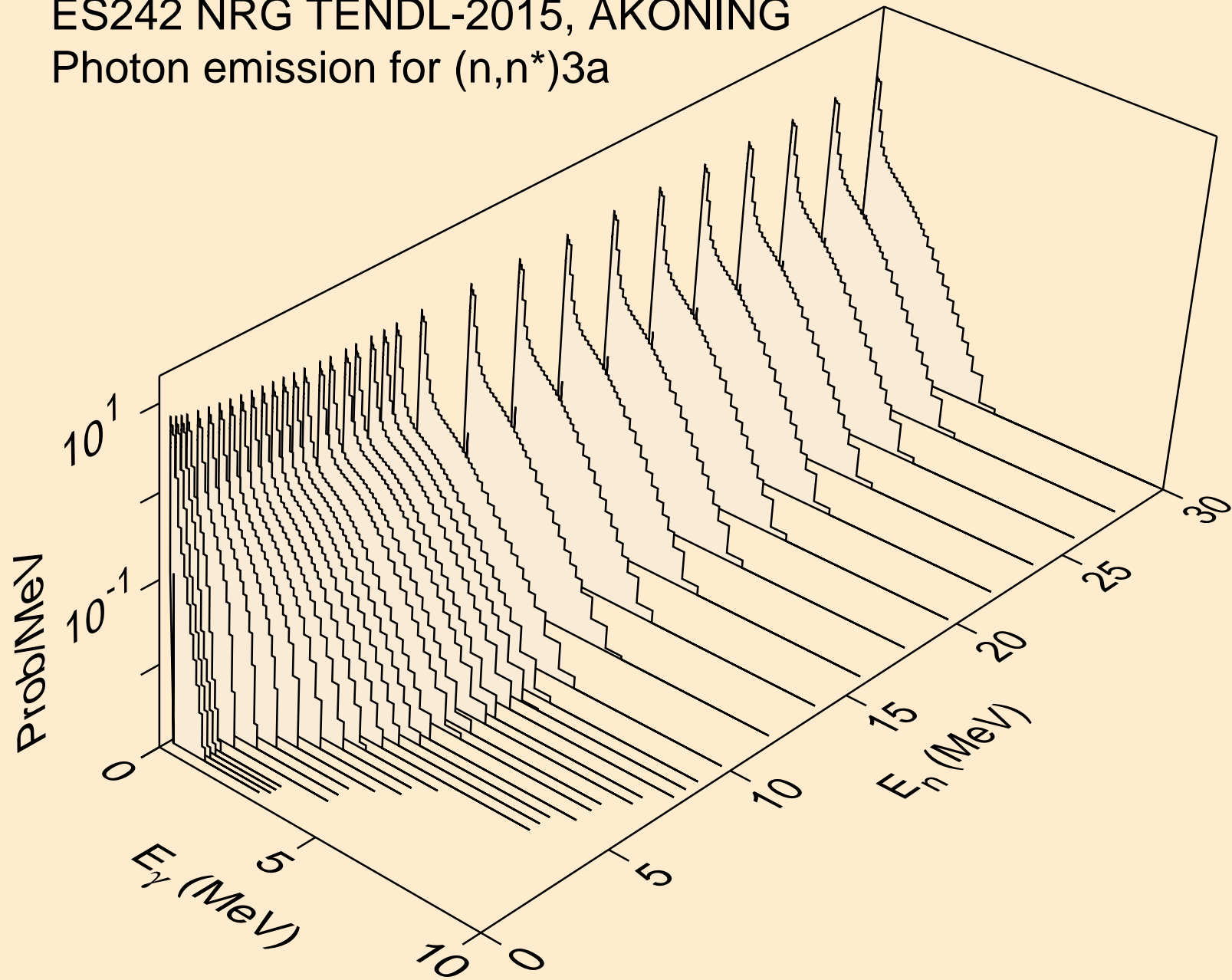
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)



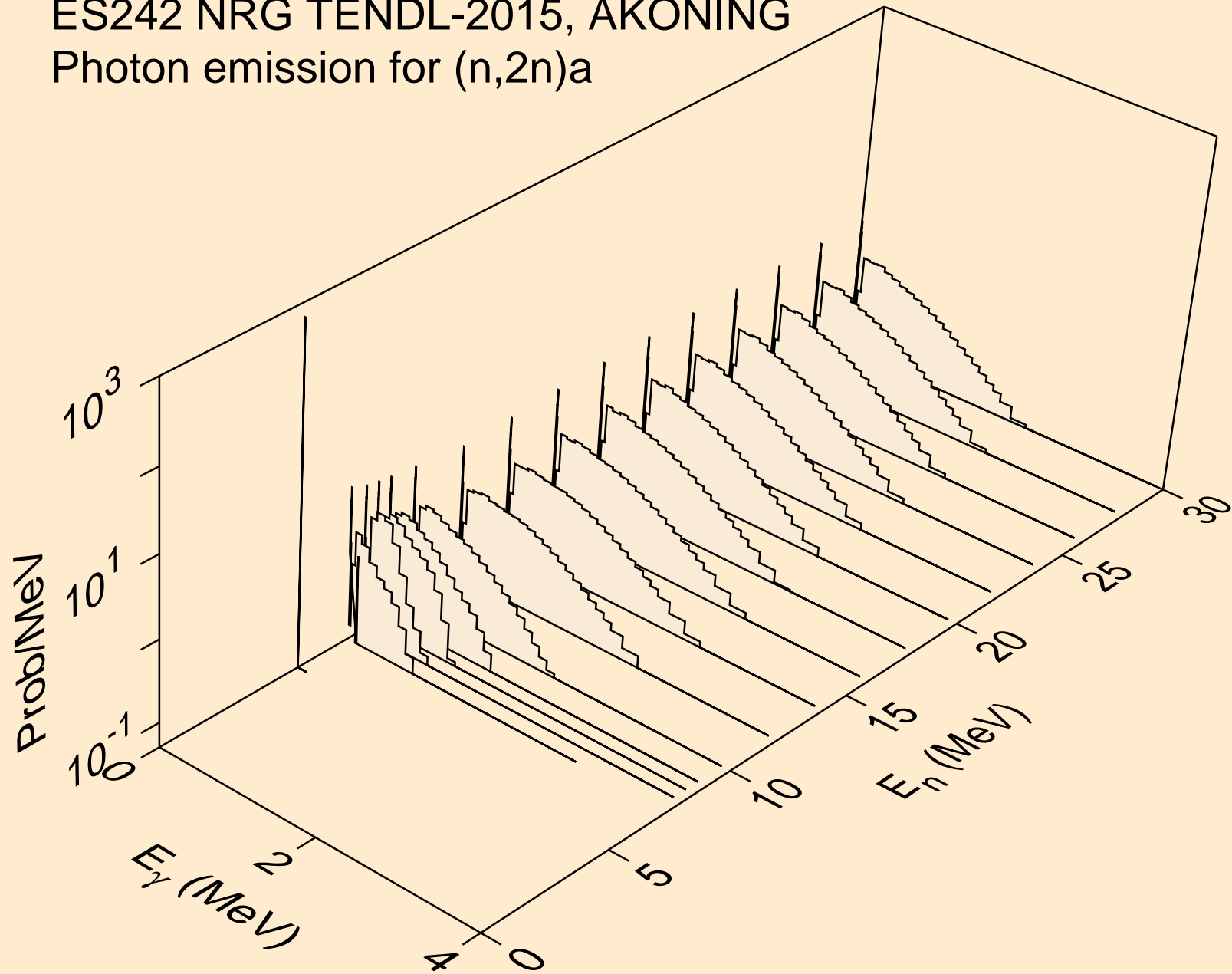
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)a



ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)3a

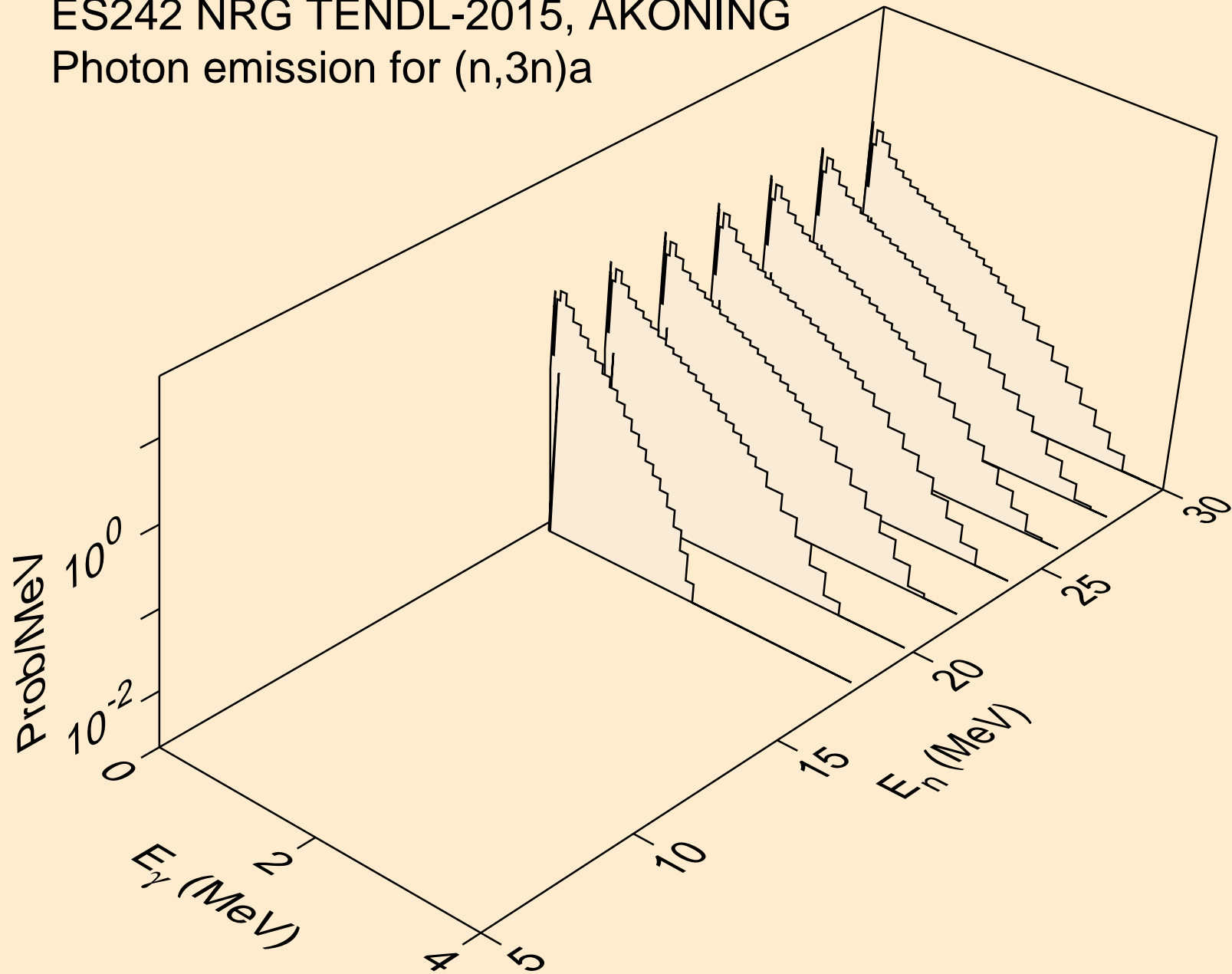


ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)a

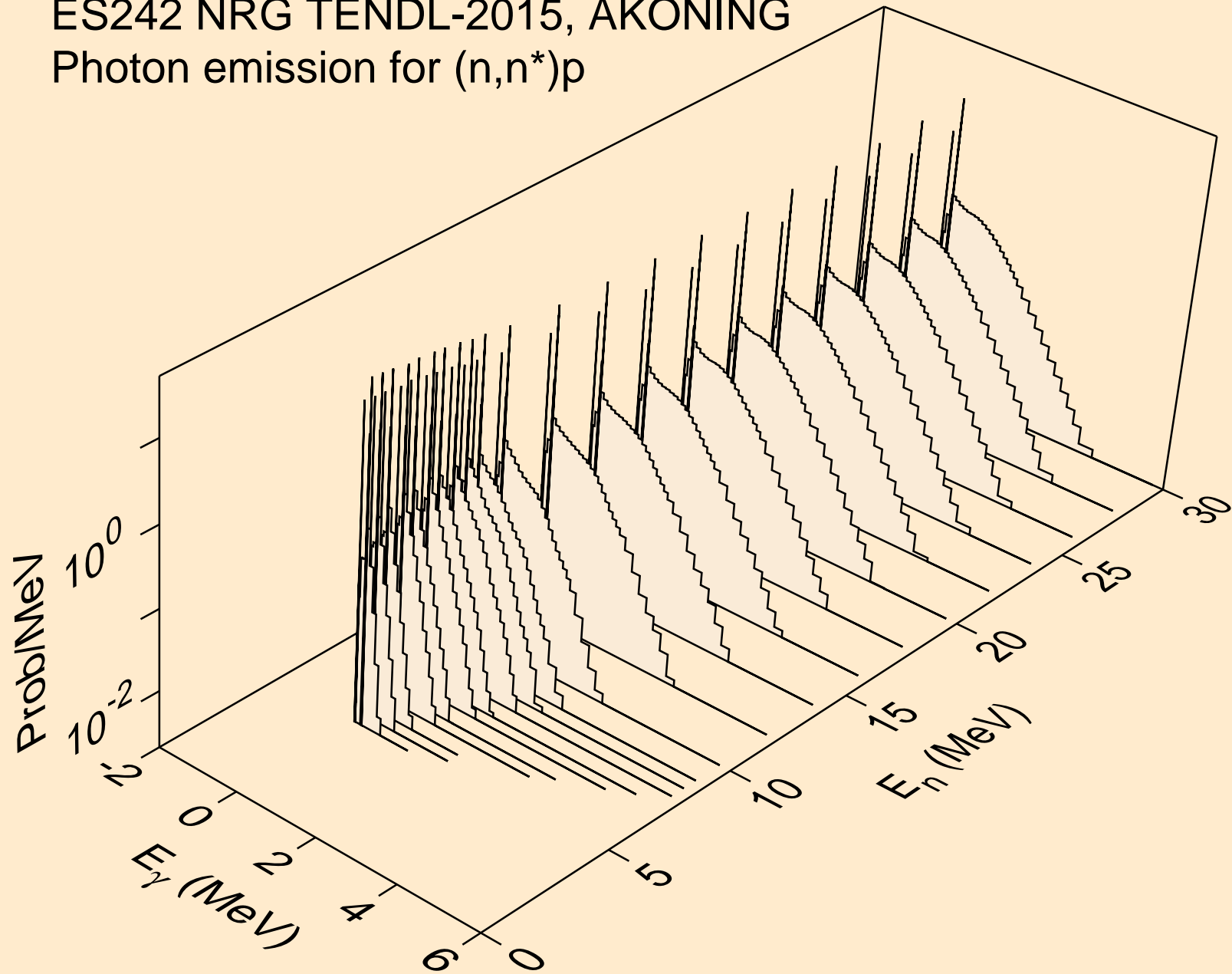




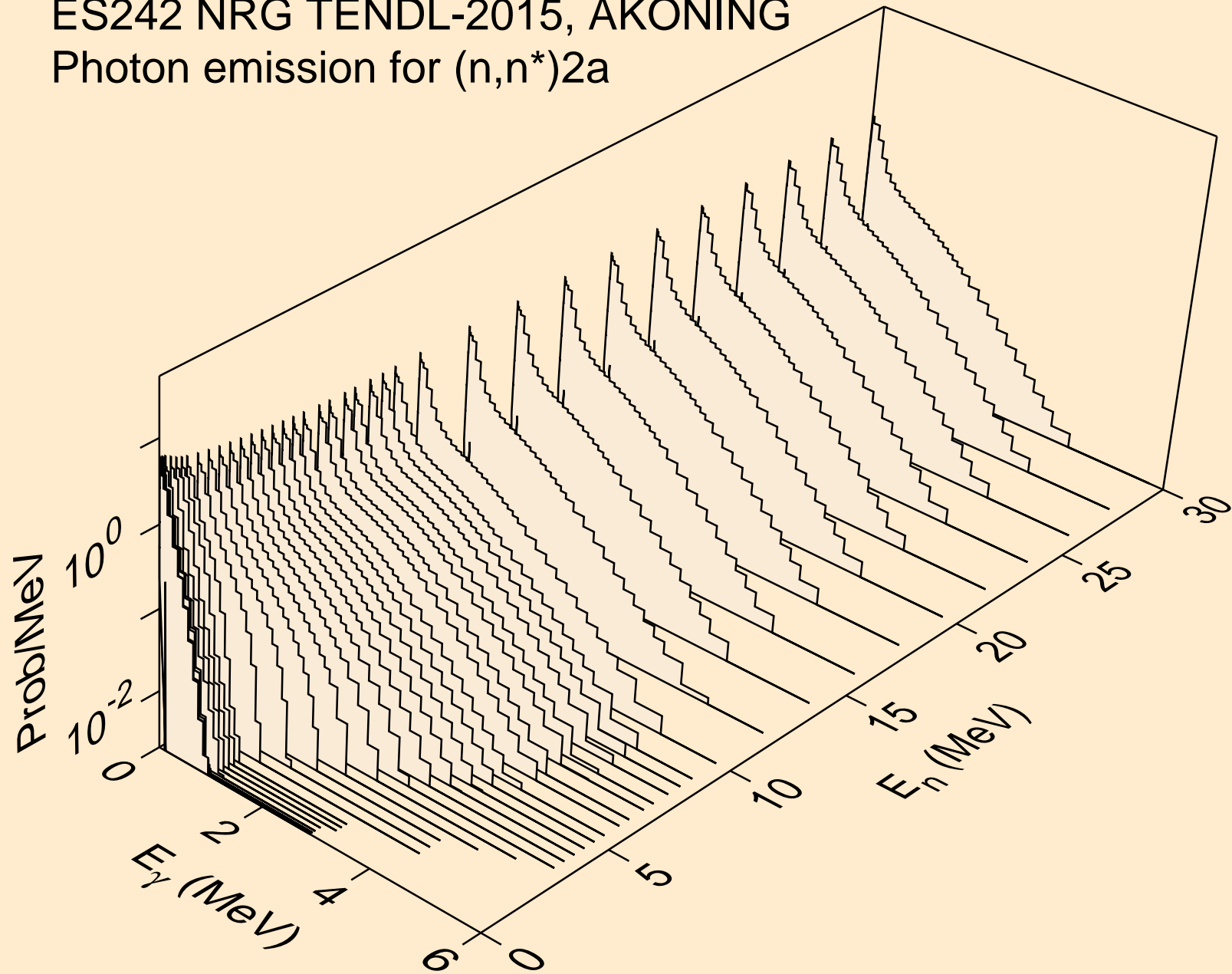
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)a



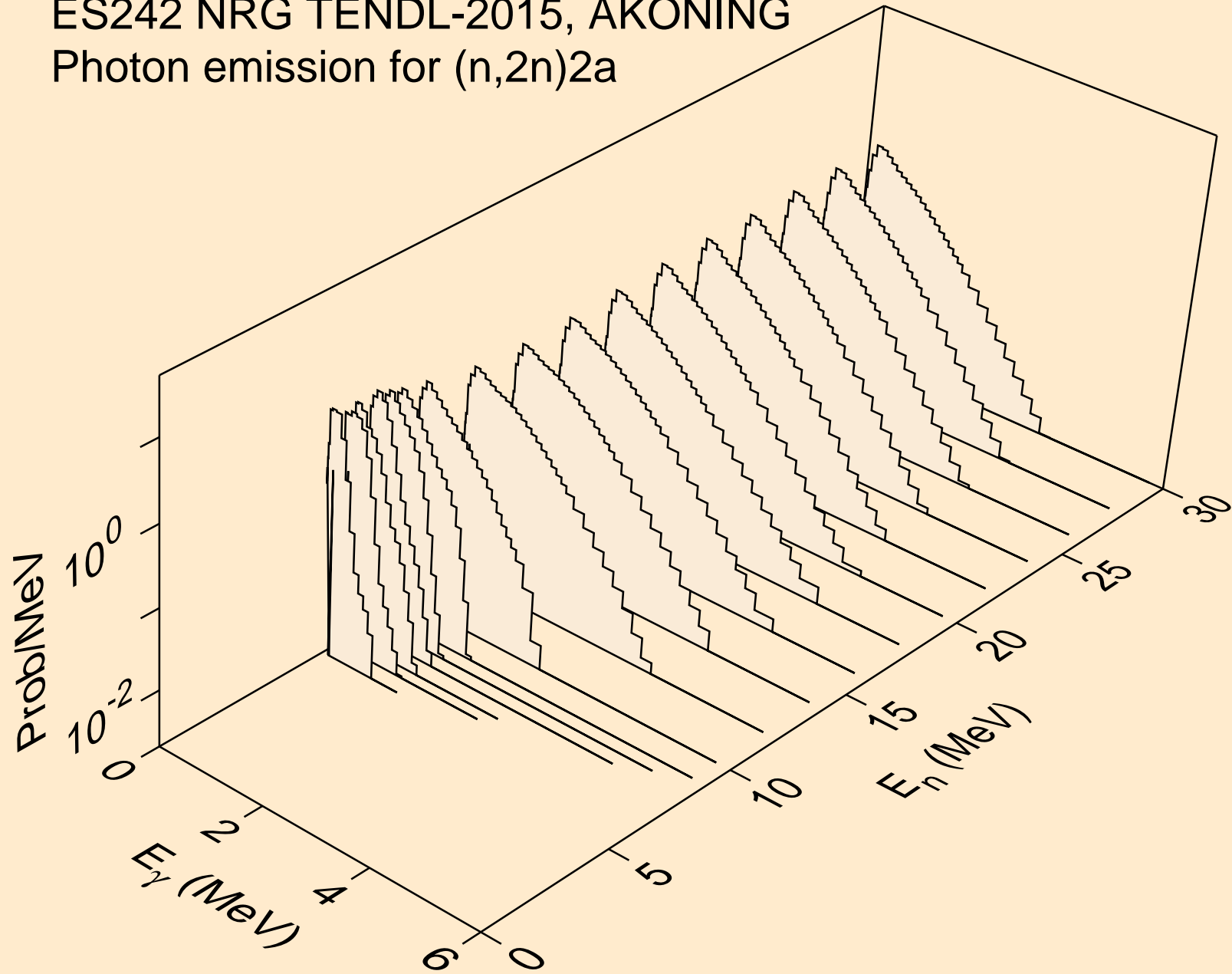
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)p



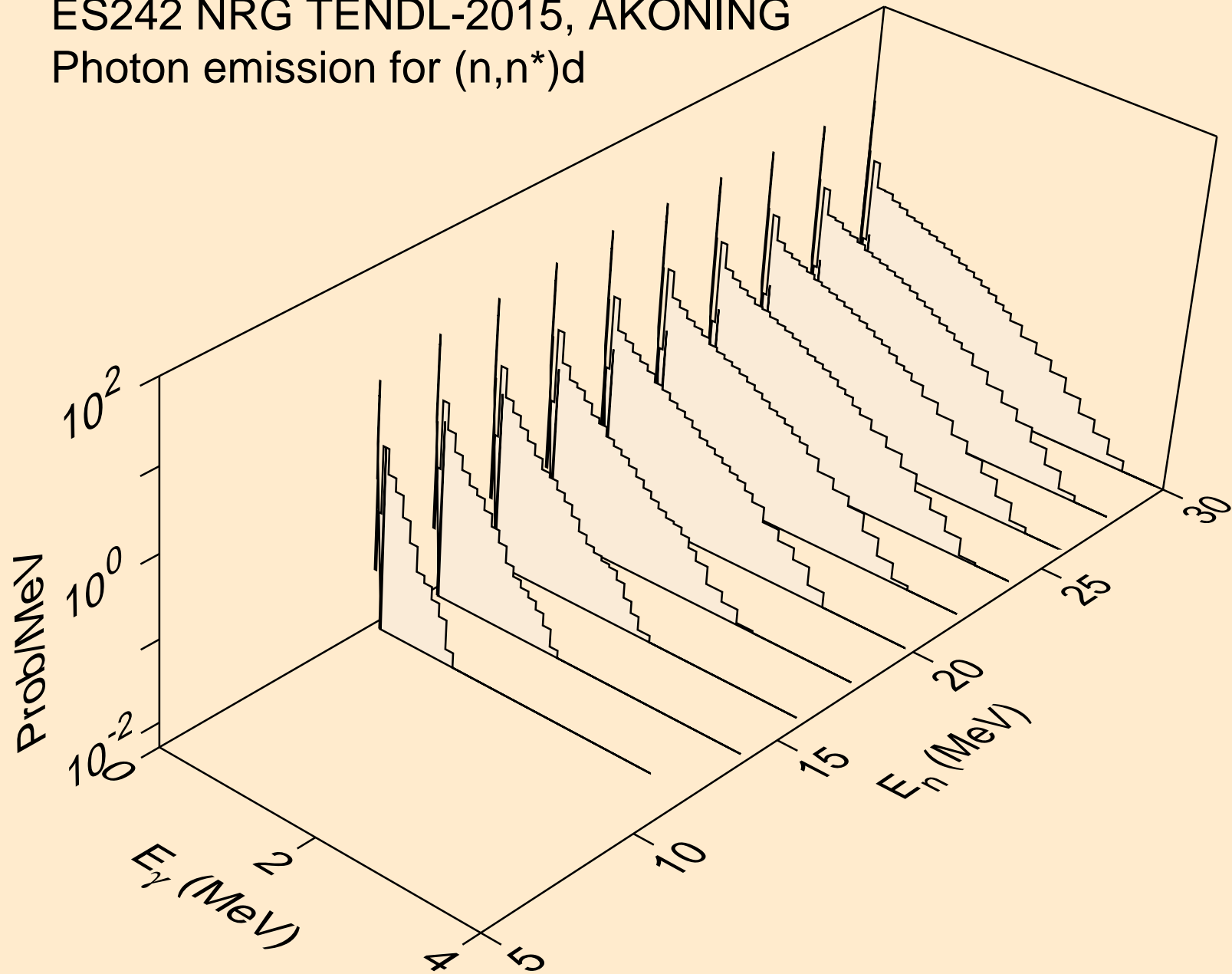
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)2a



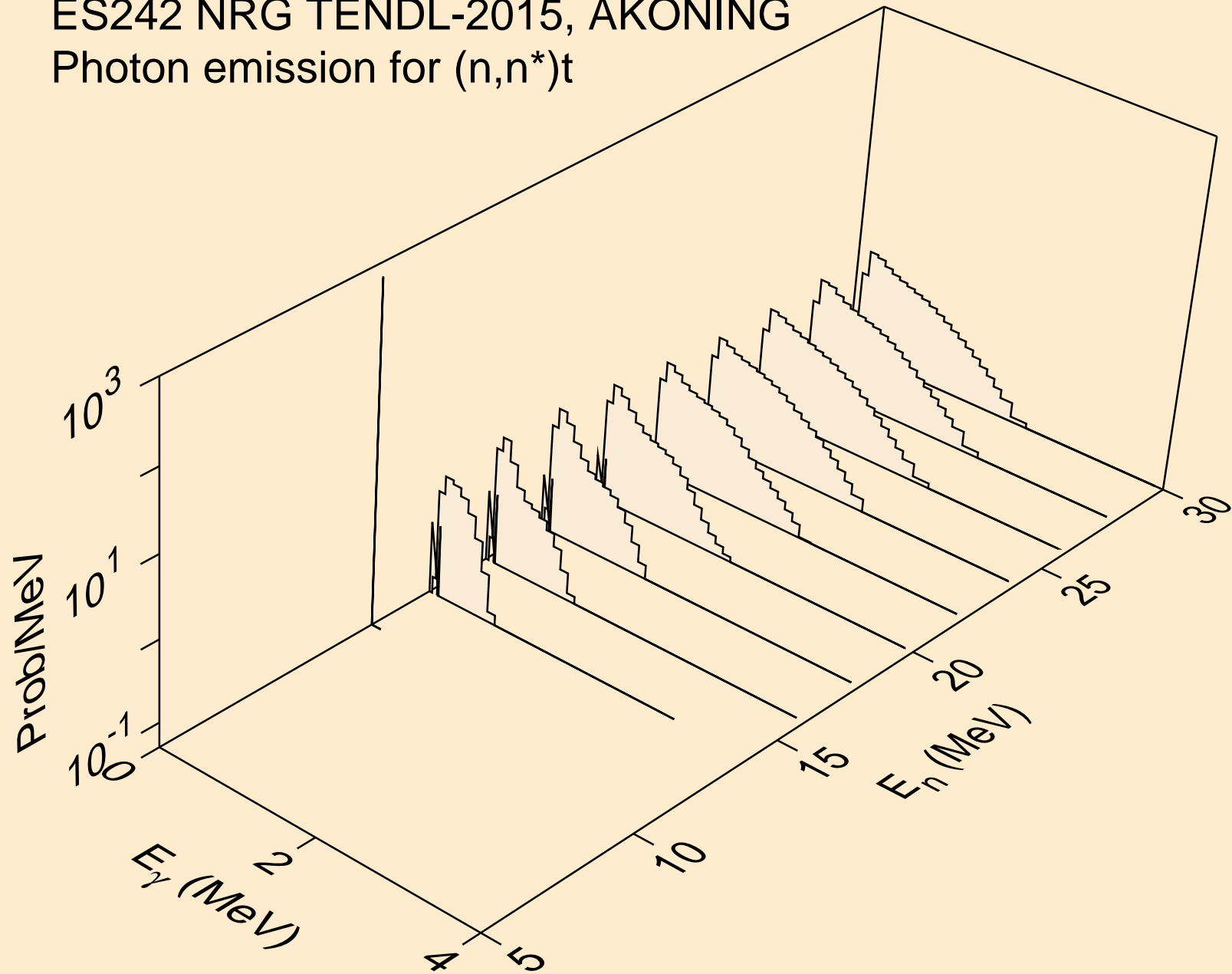
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)2a



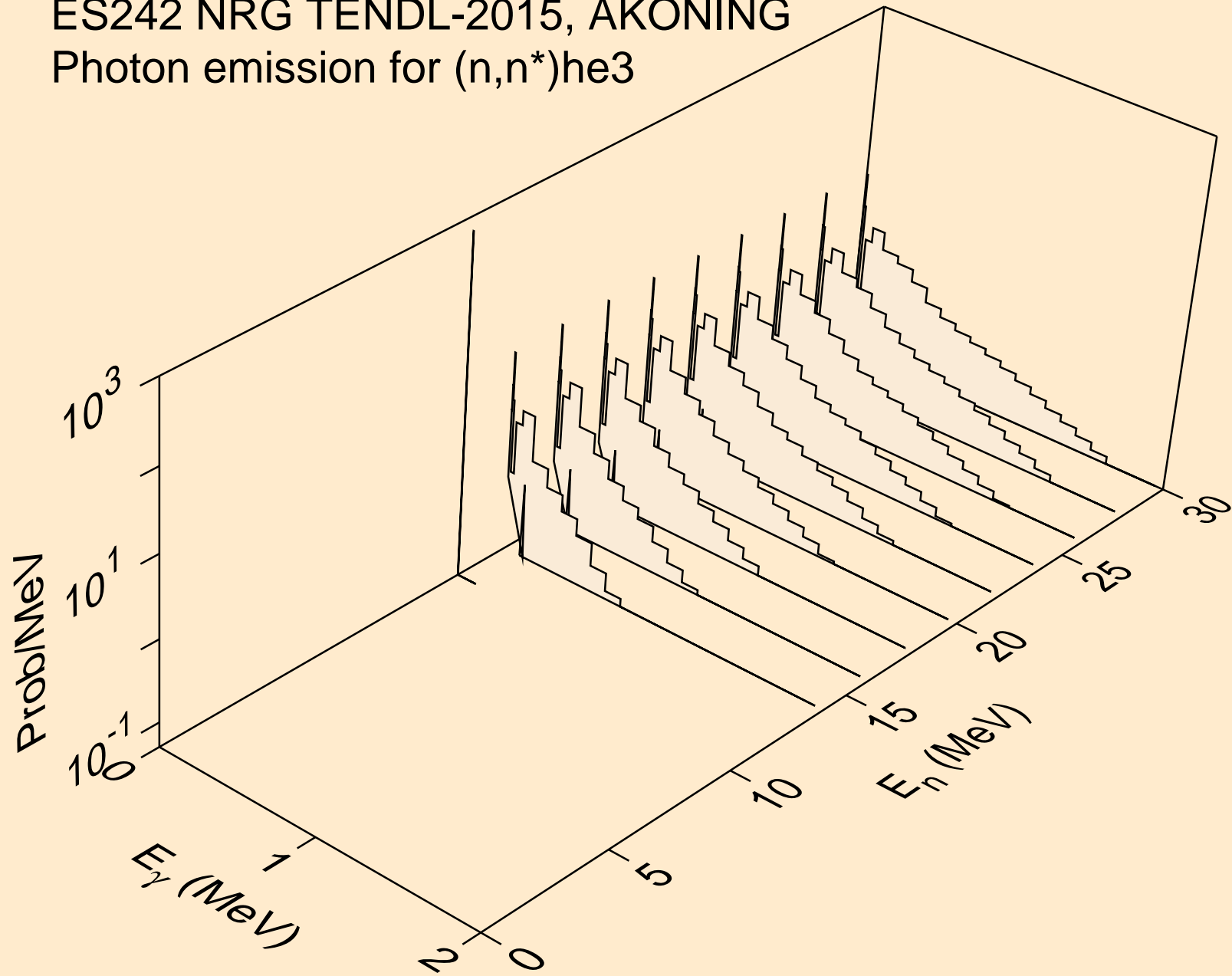
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d



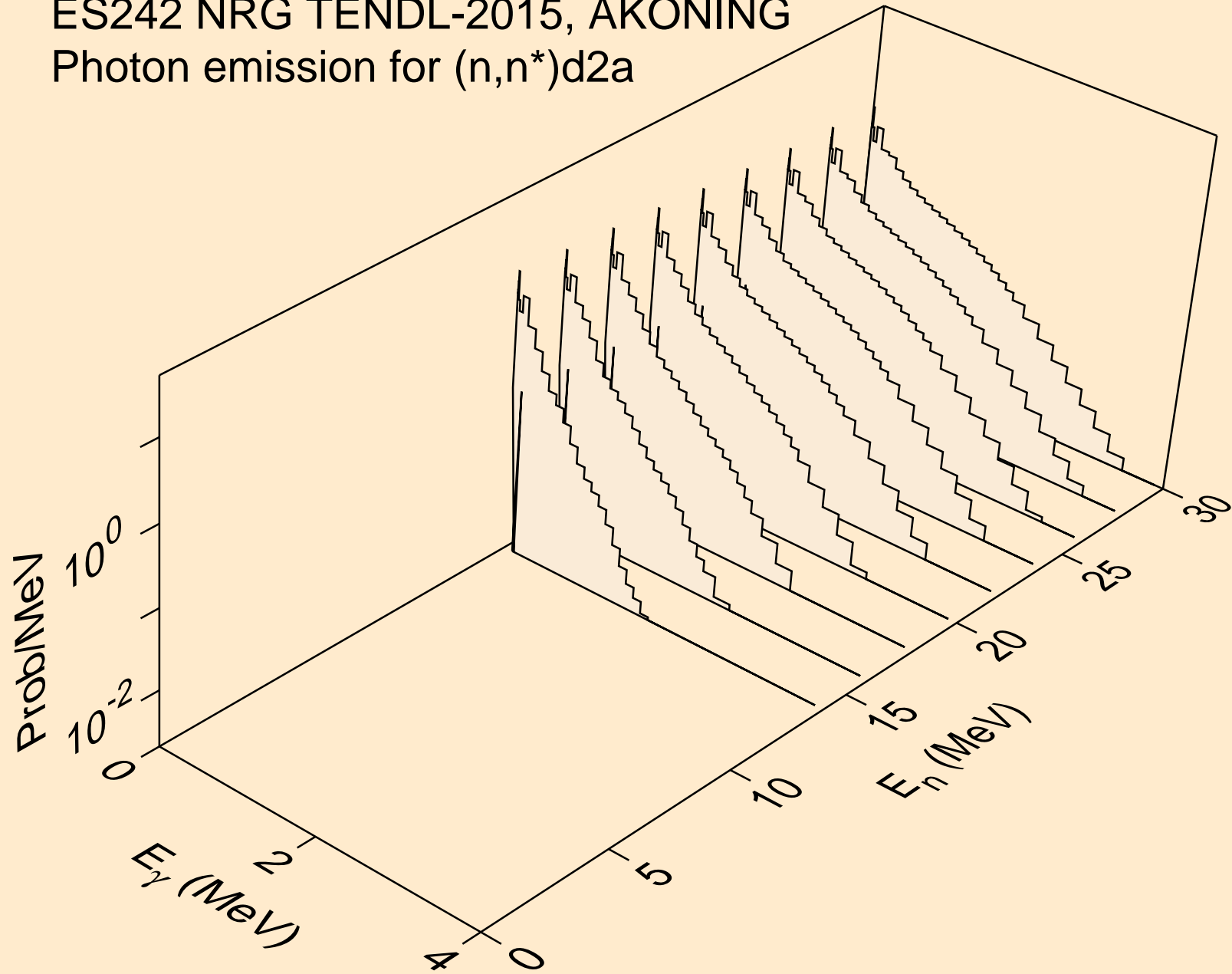
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t



ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)he3

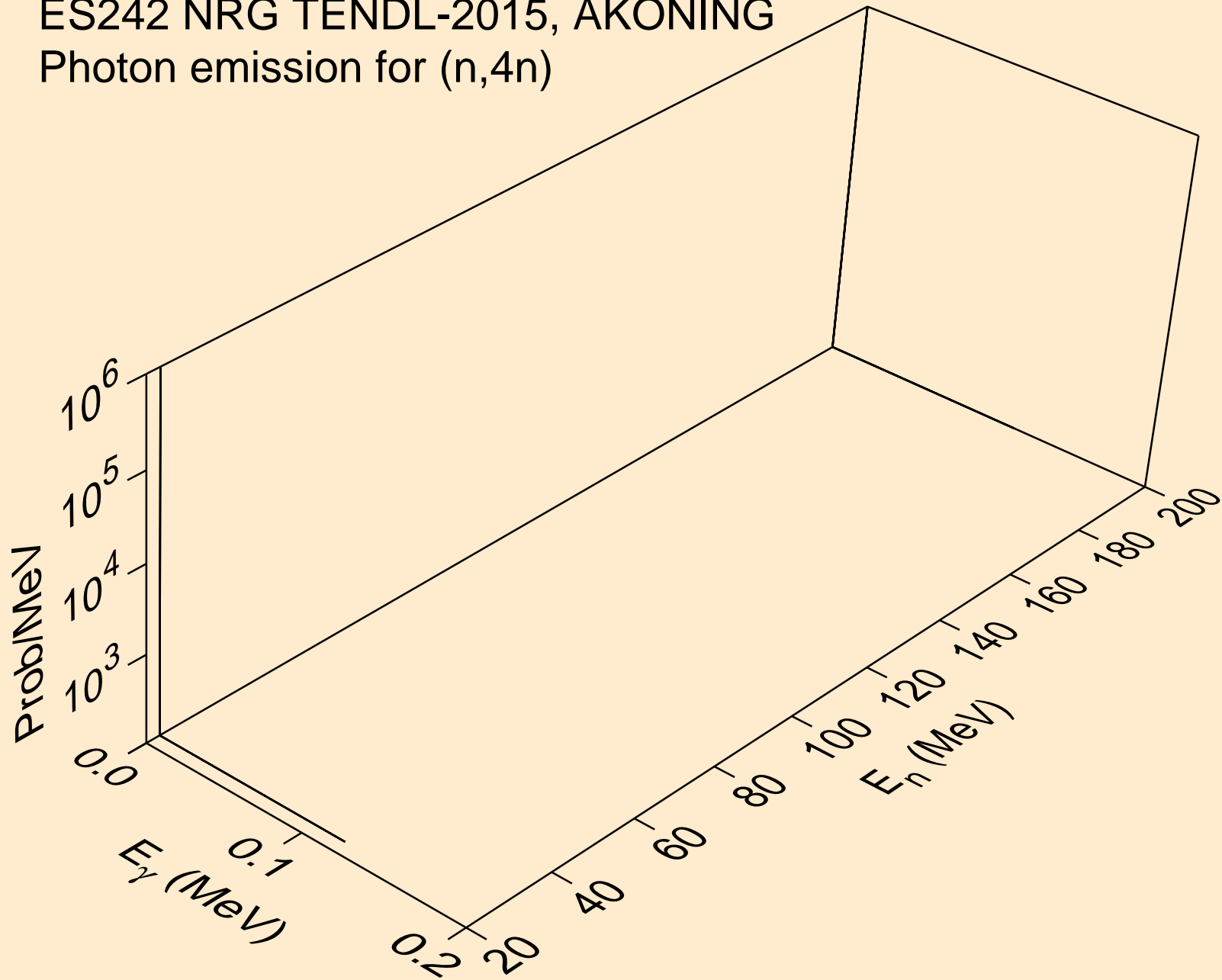


ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d2a

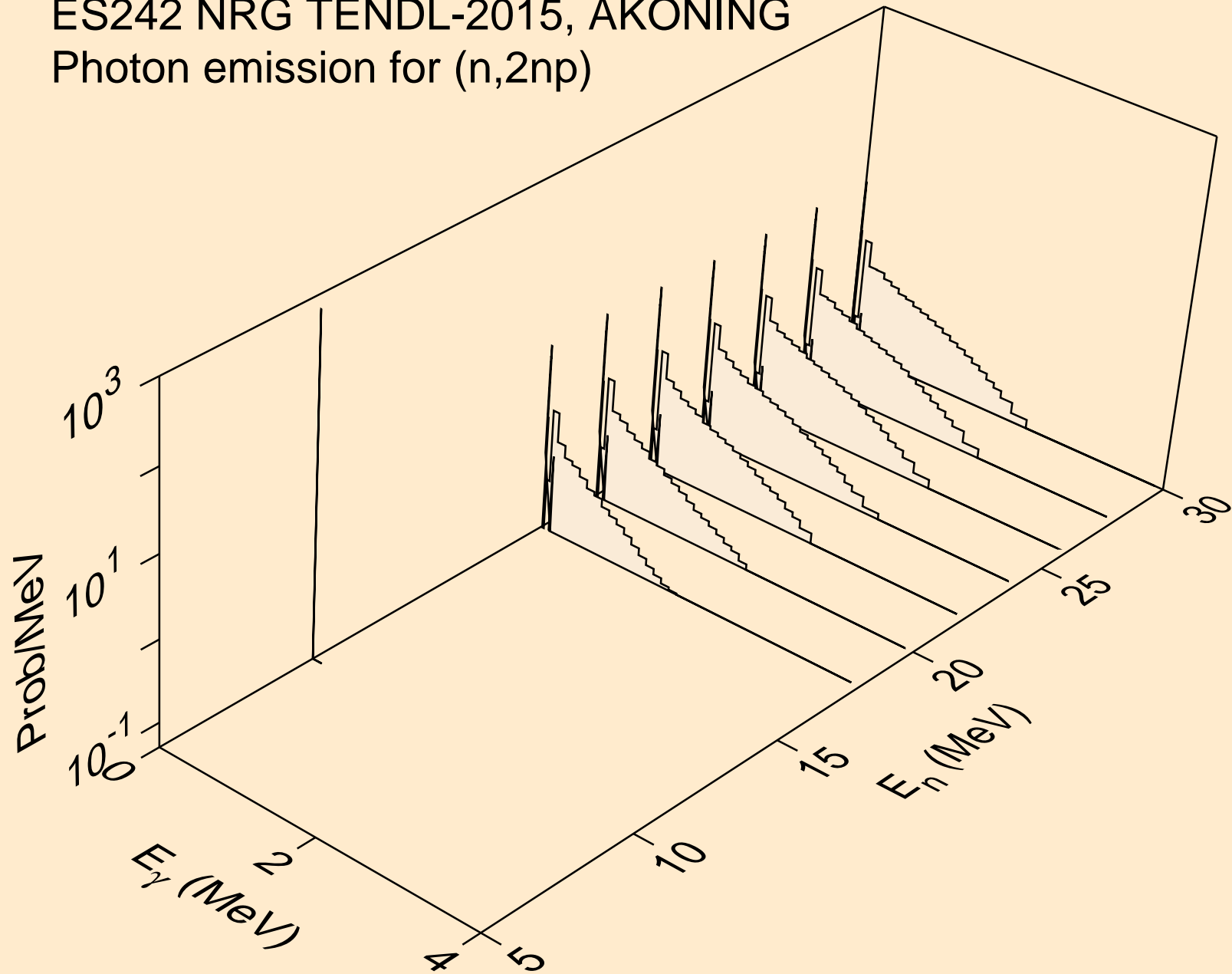




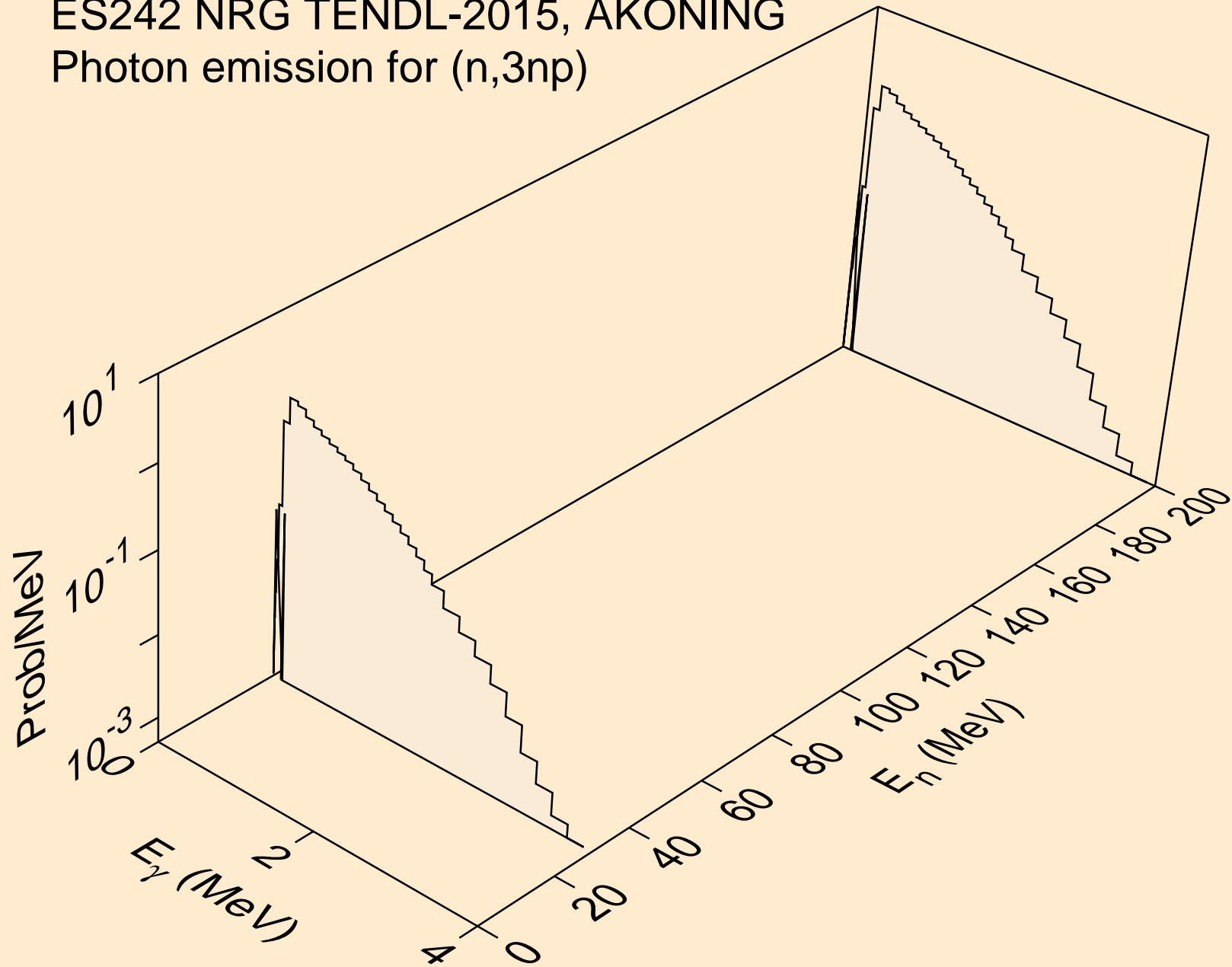
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,4n)



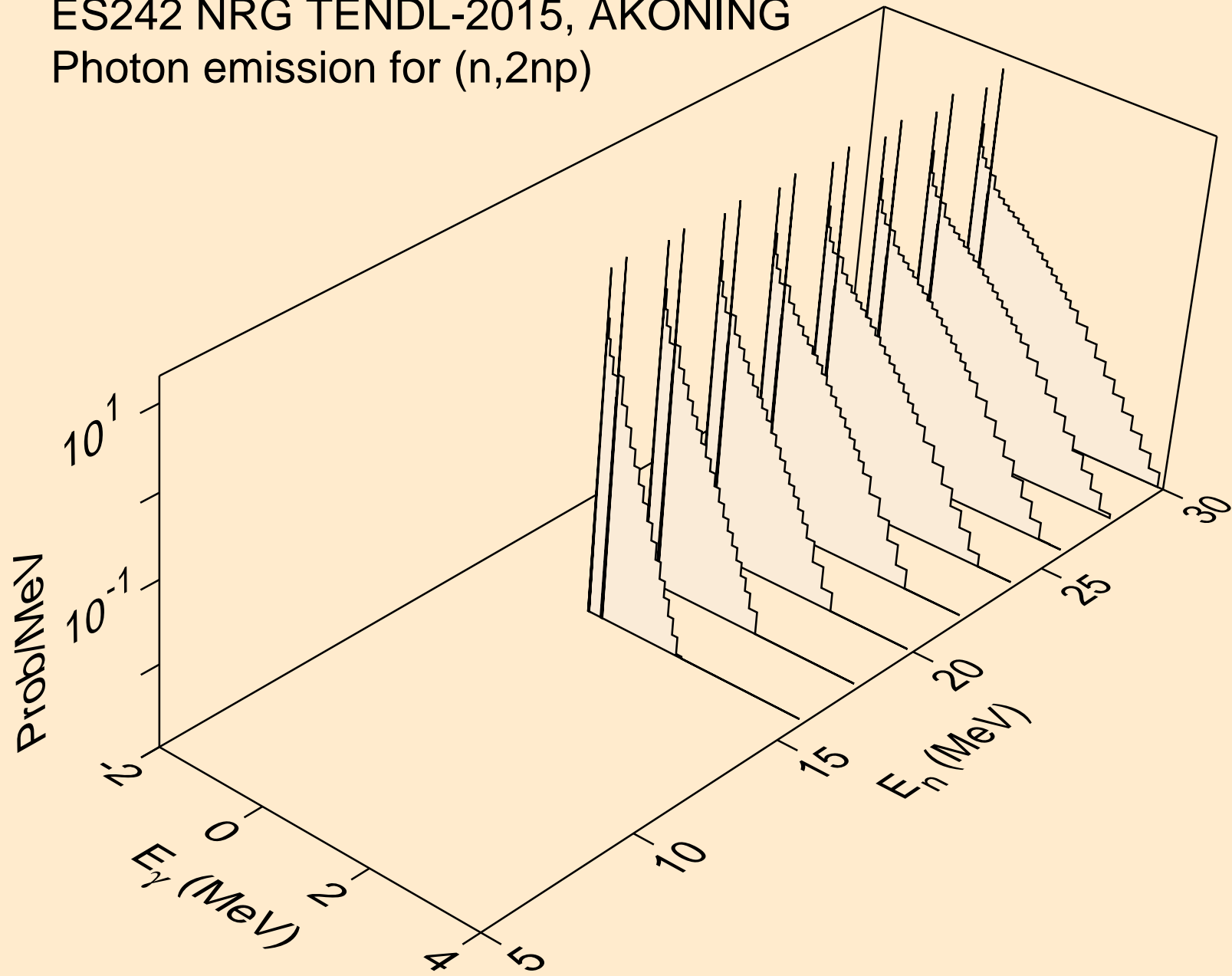
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



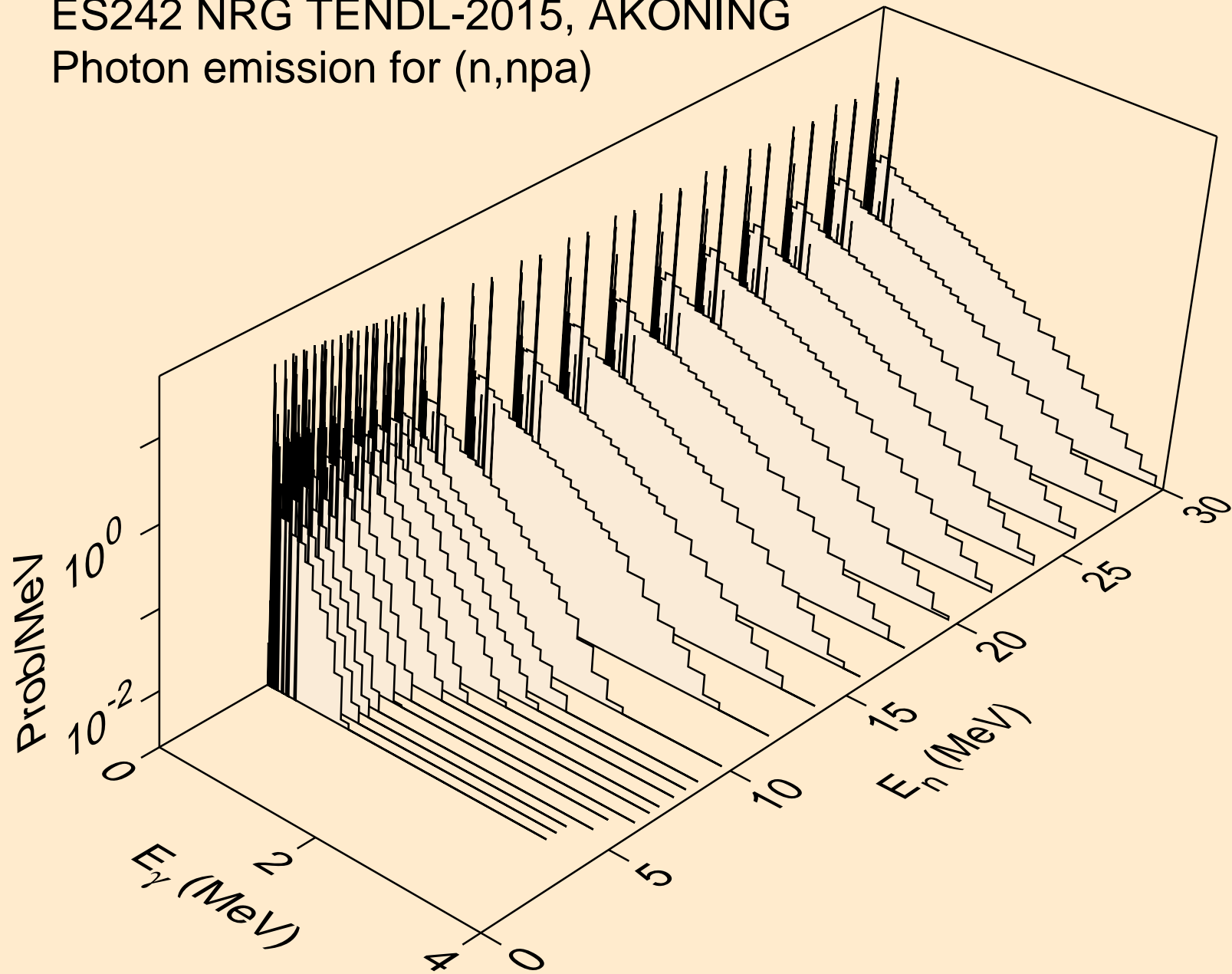
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,3np)



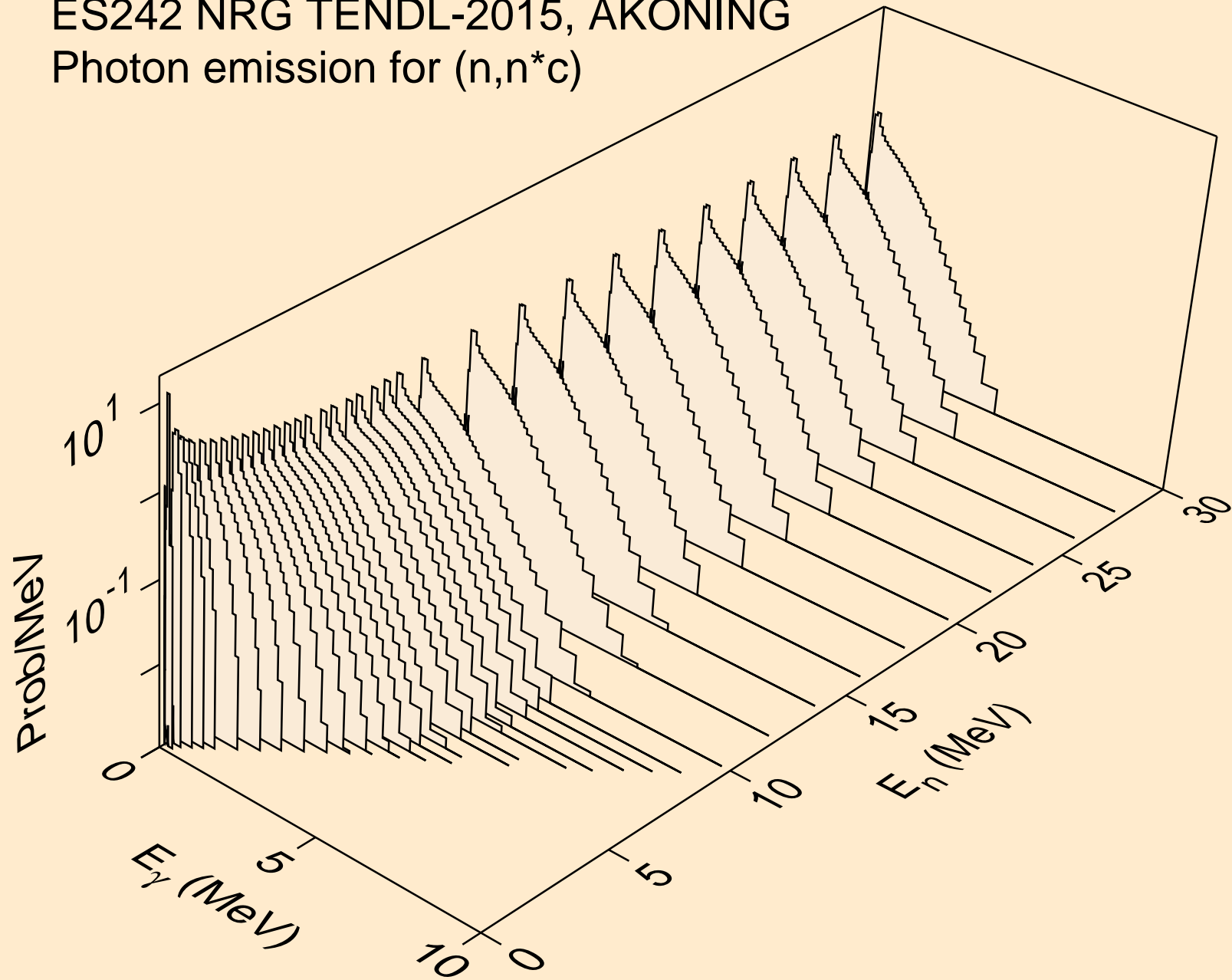
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



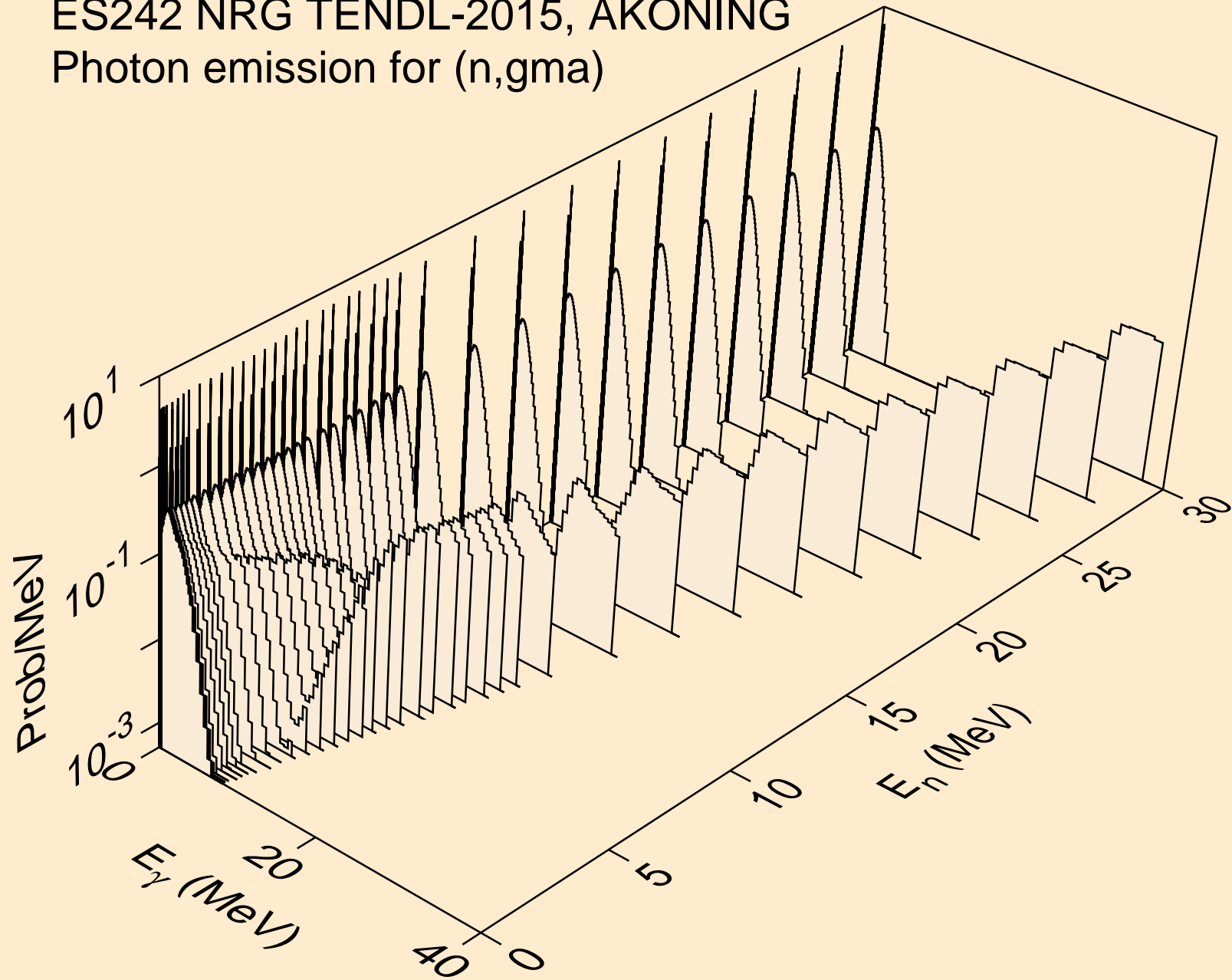
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,npa)



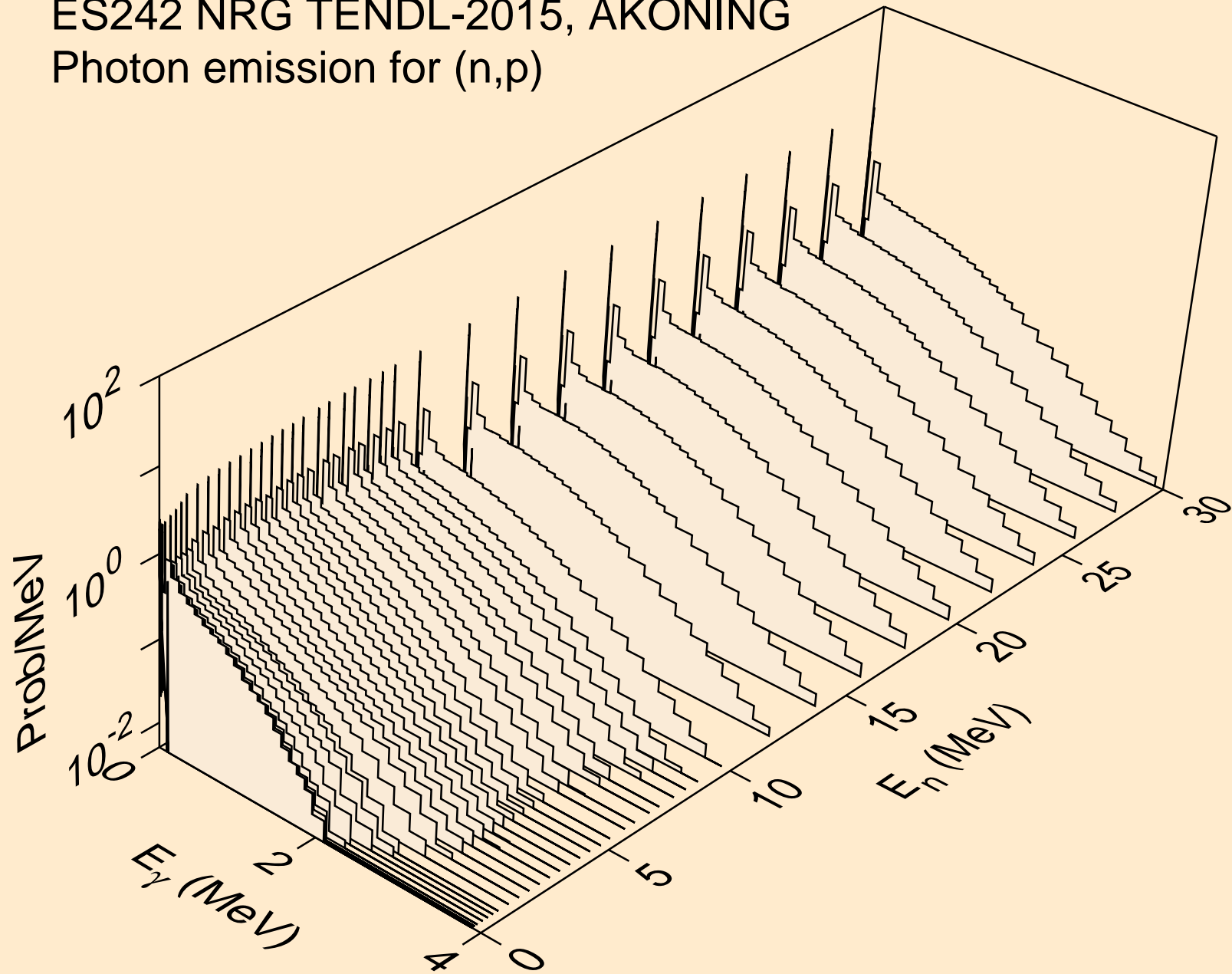
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*c)



ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,gma)

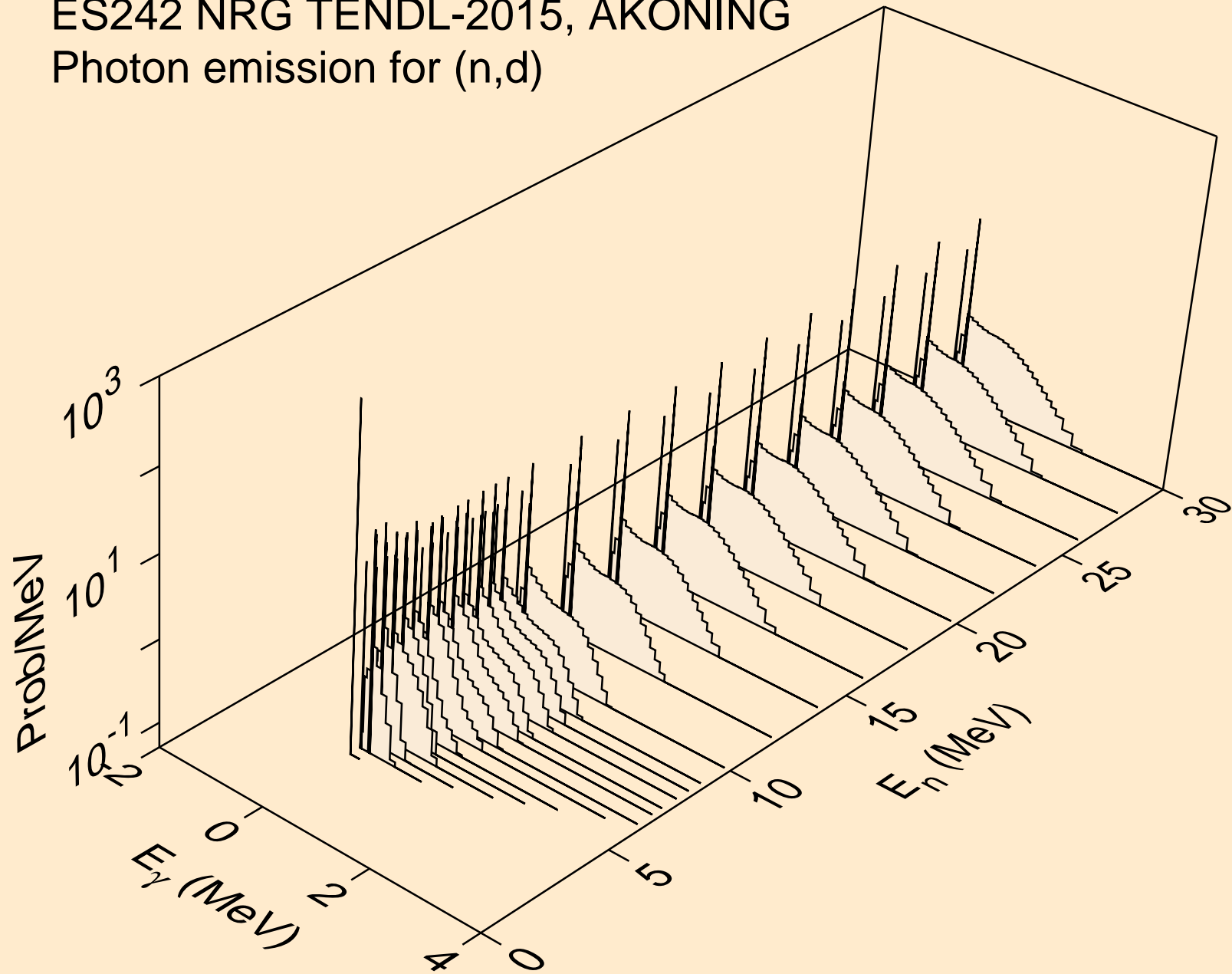


ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,p)

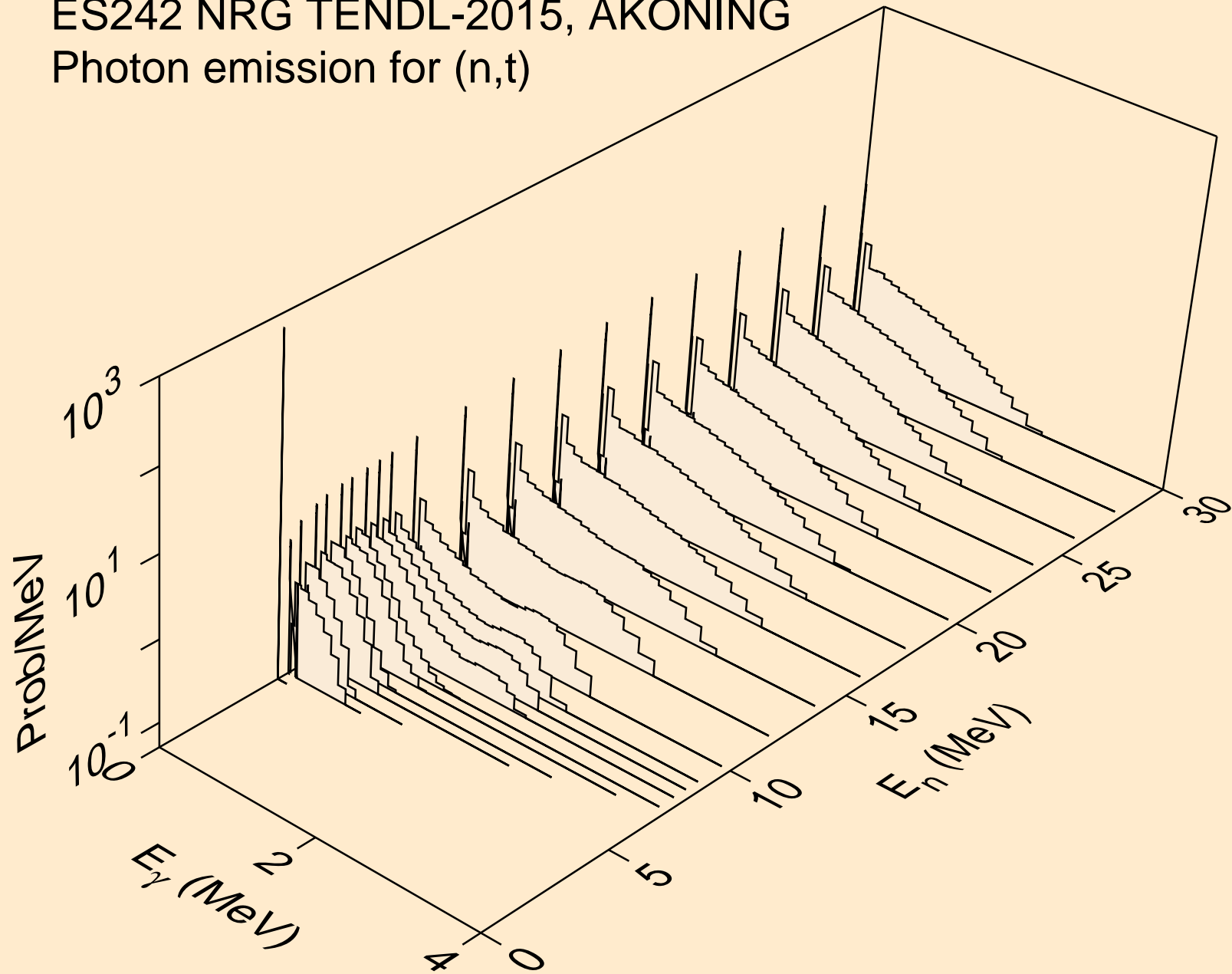




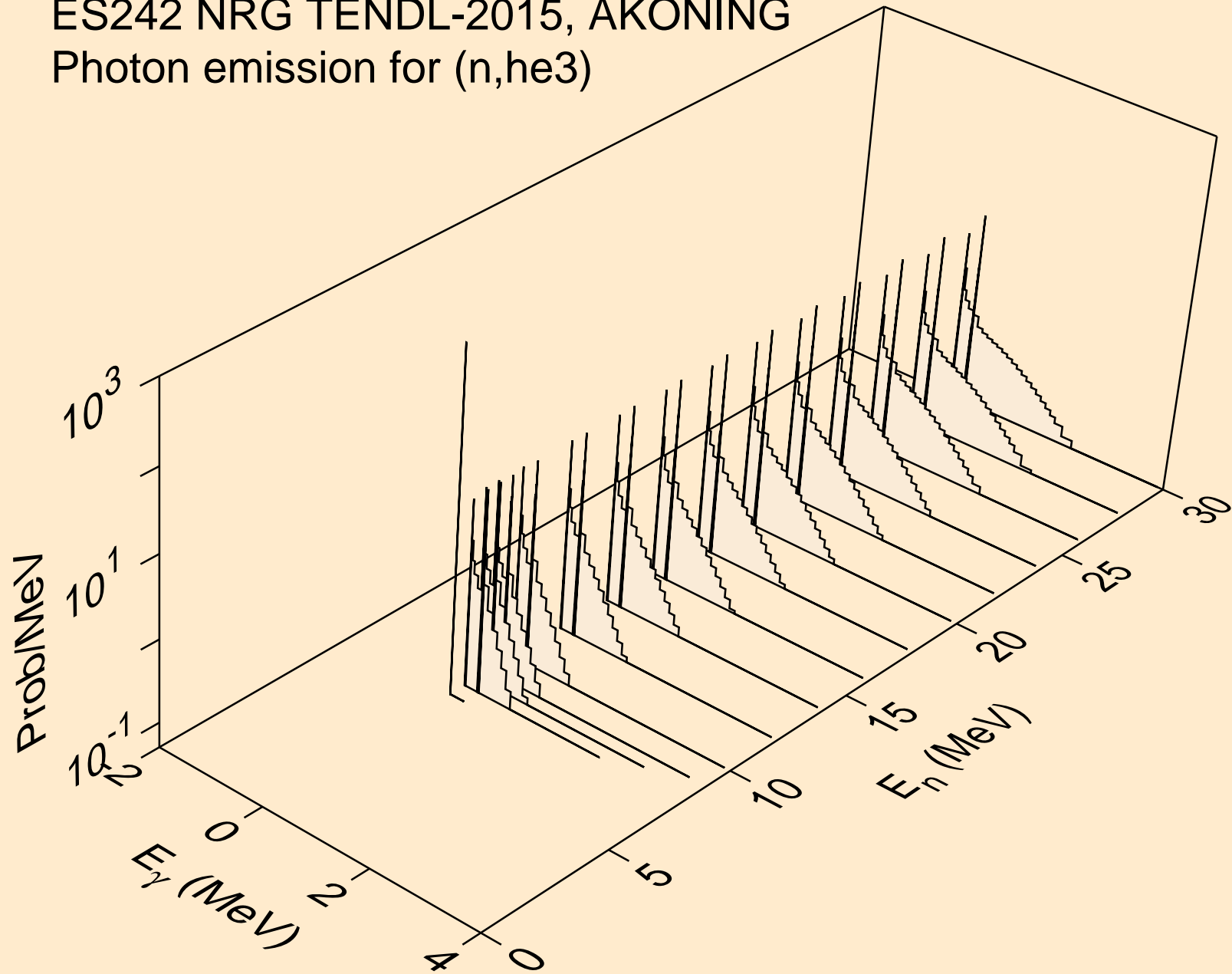
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,d)



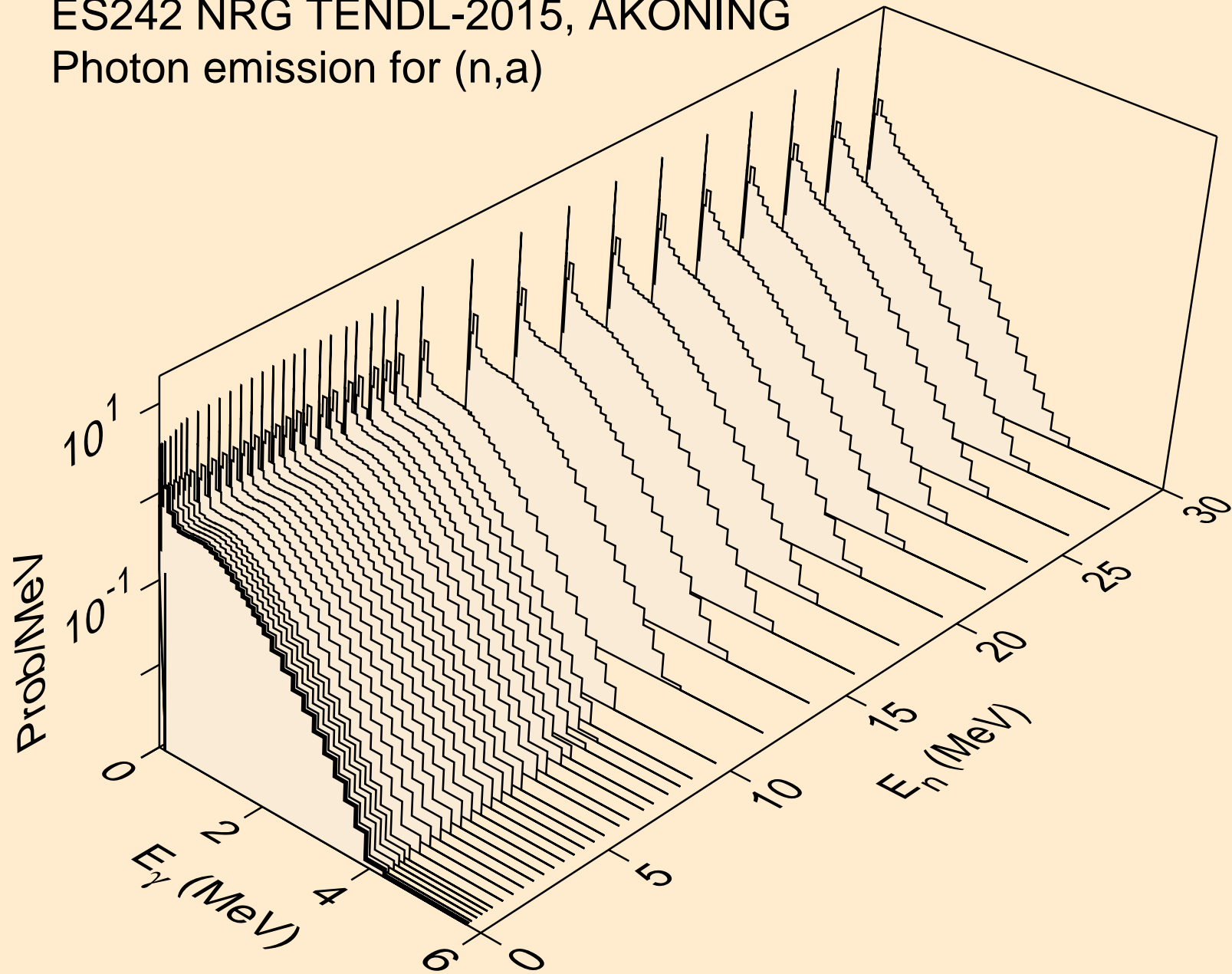
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,t)



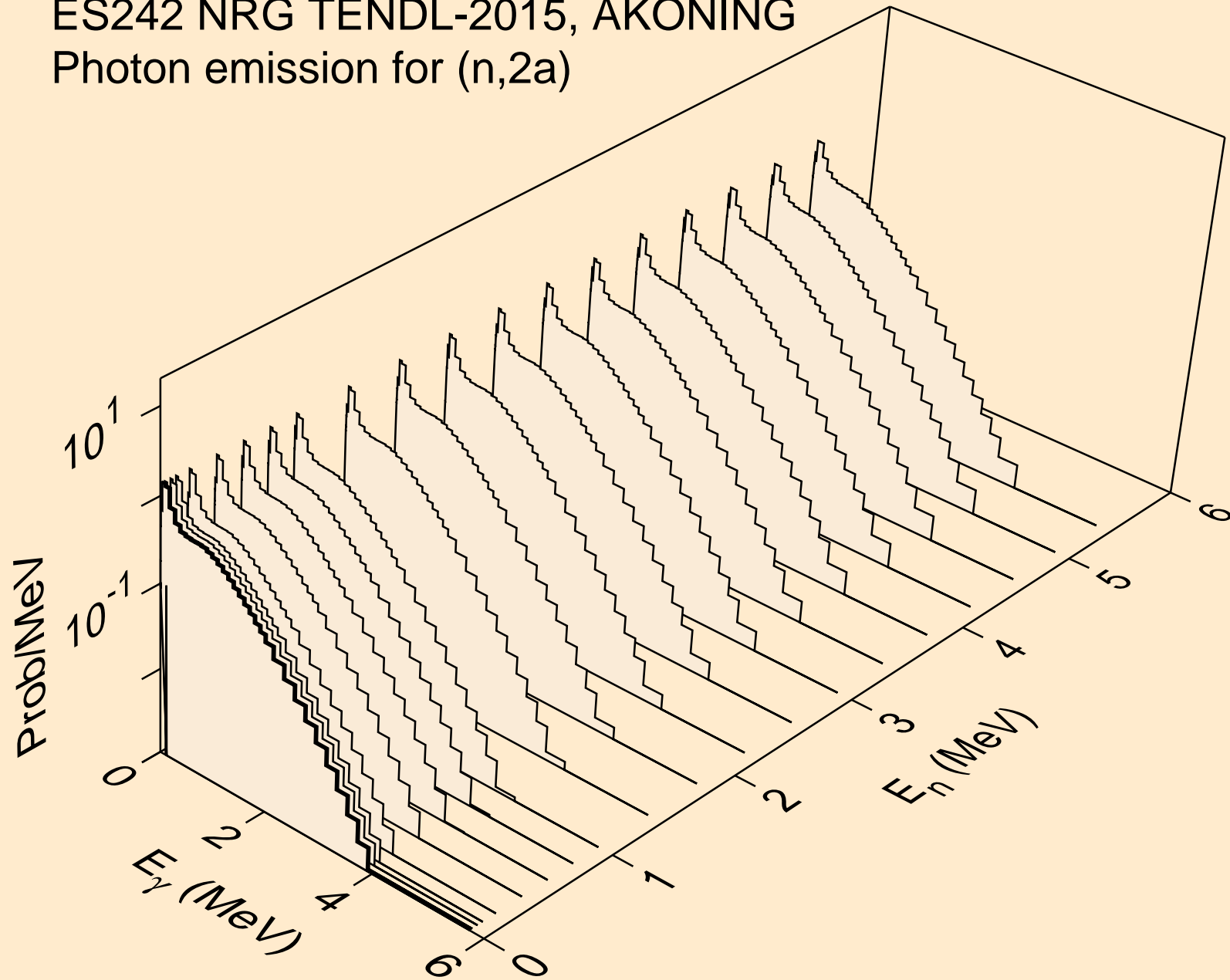
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,he3)



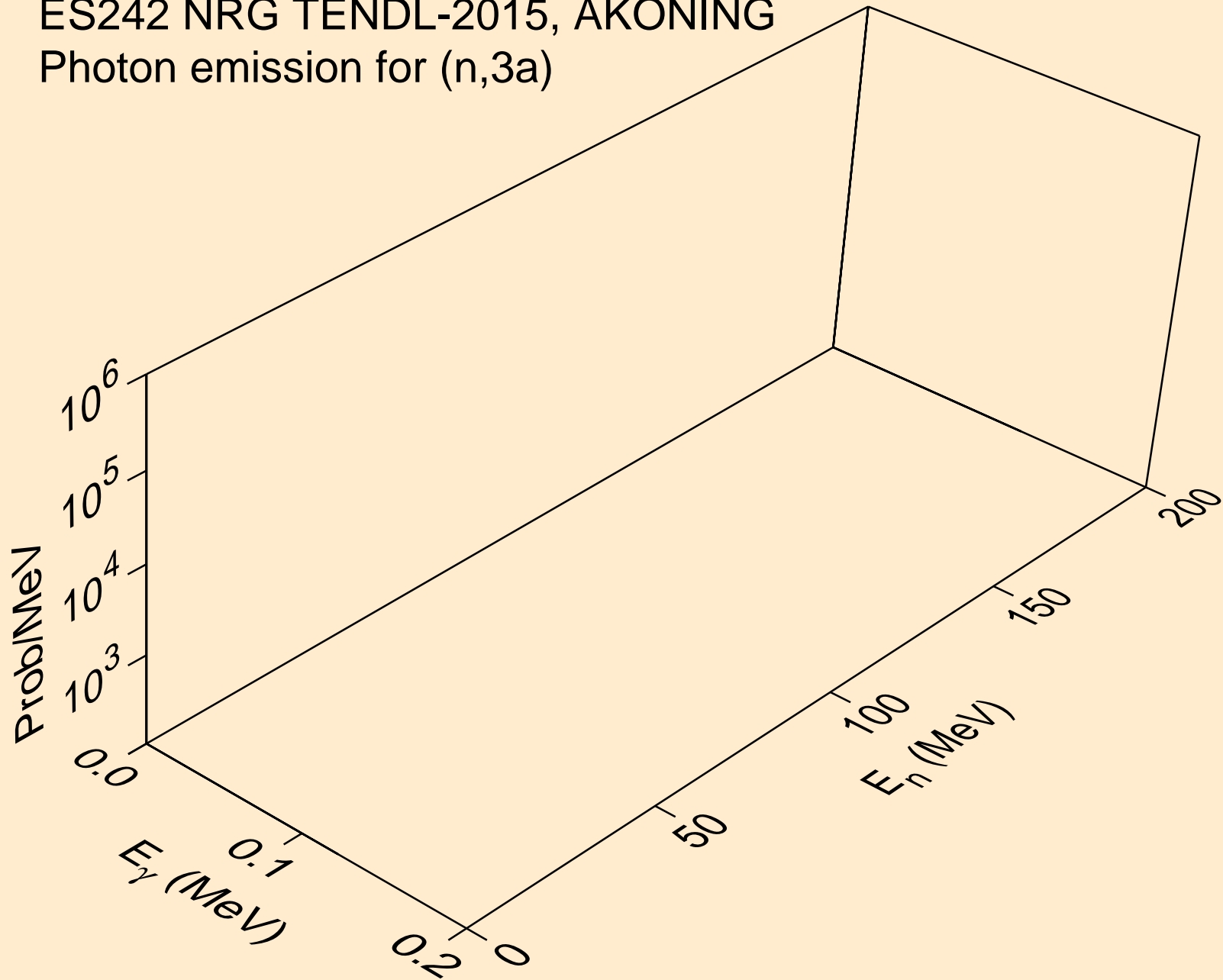
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,a)



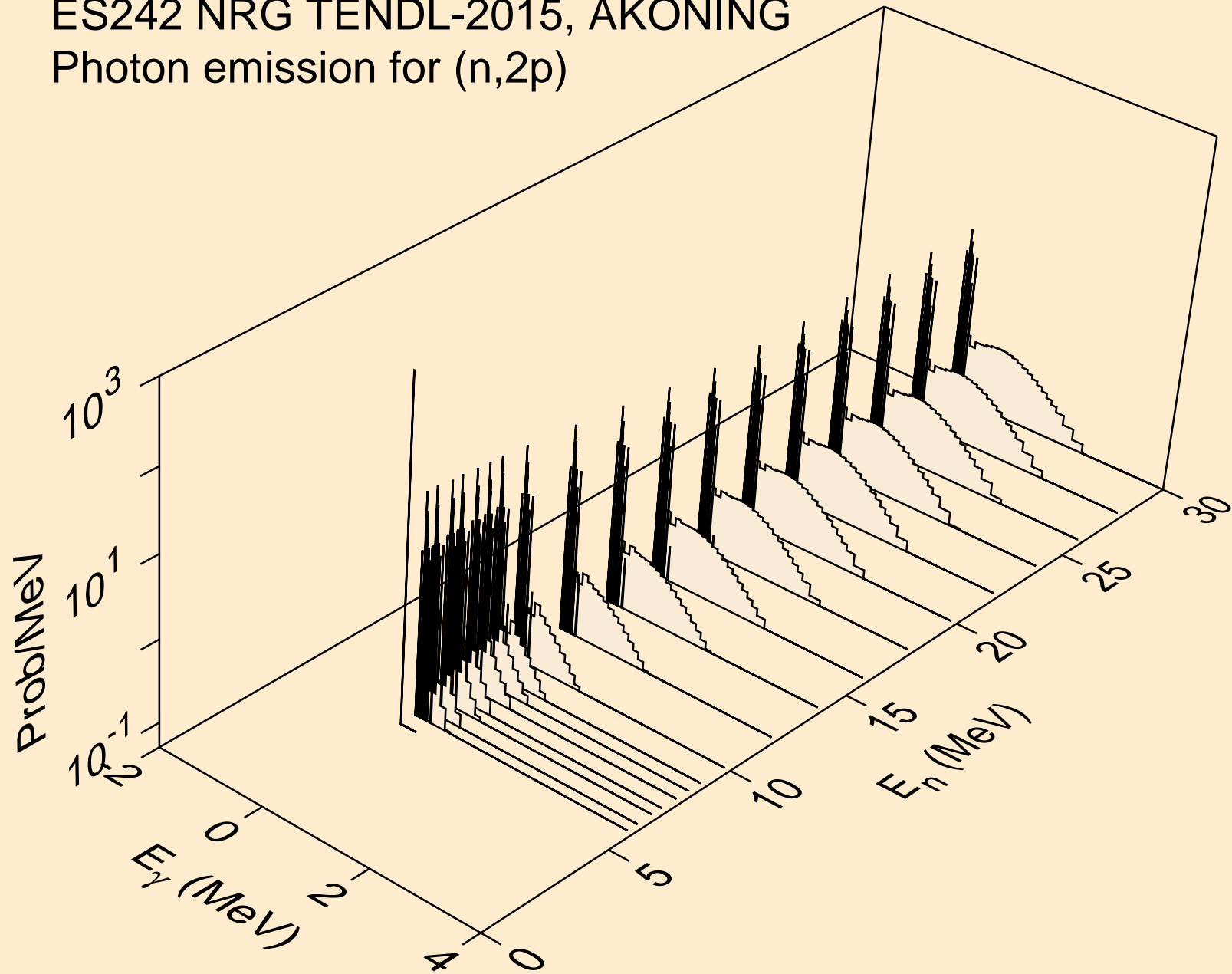
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,2a)



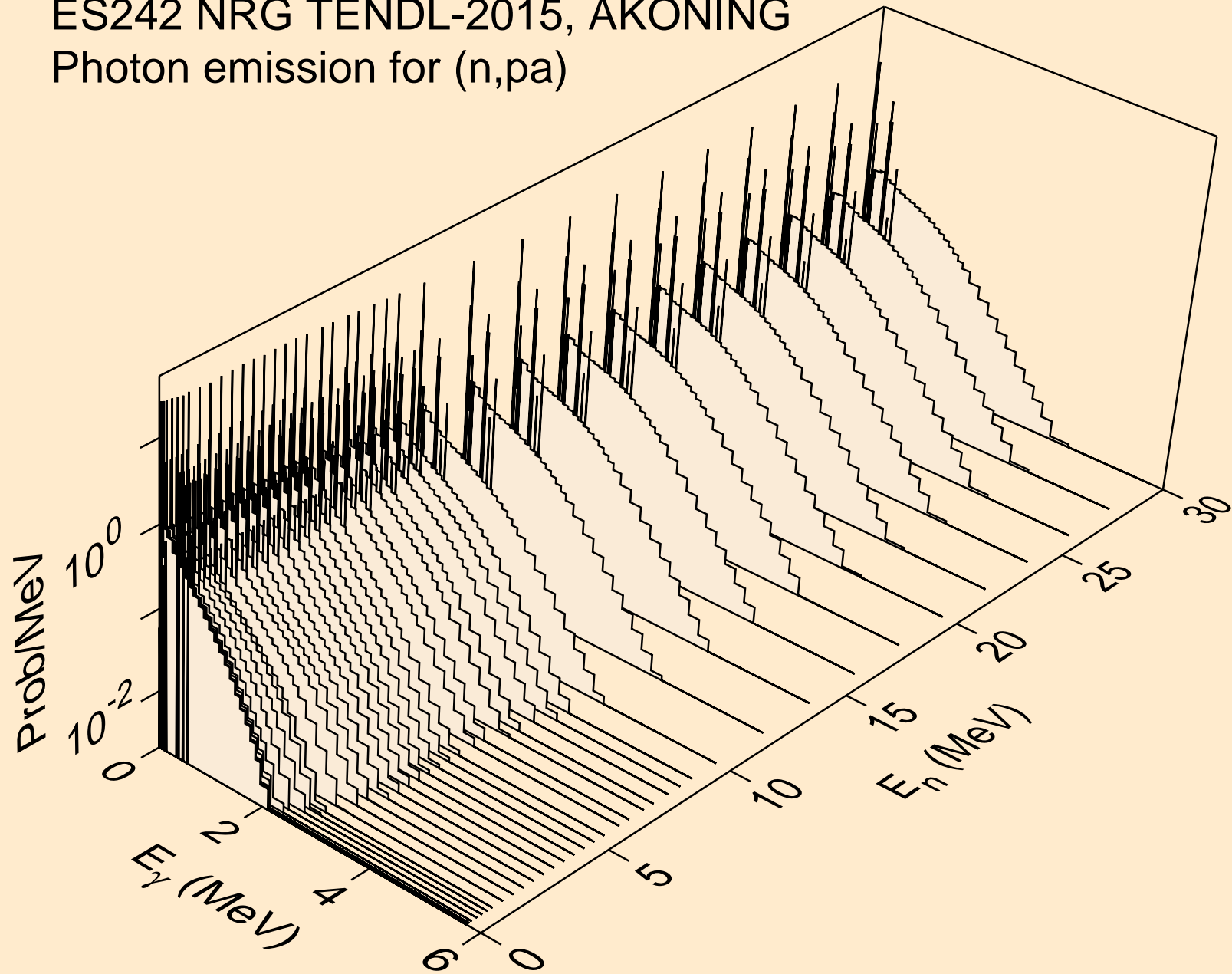
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,3a)



ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,2p)

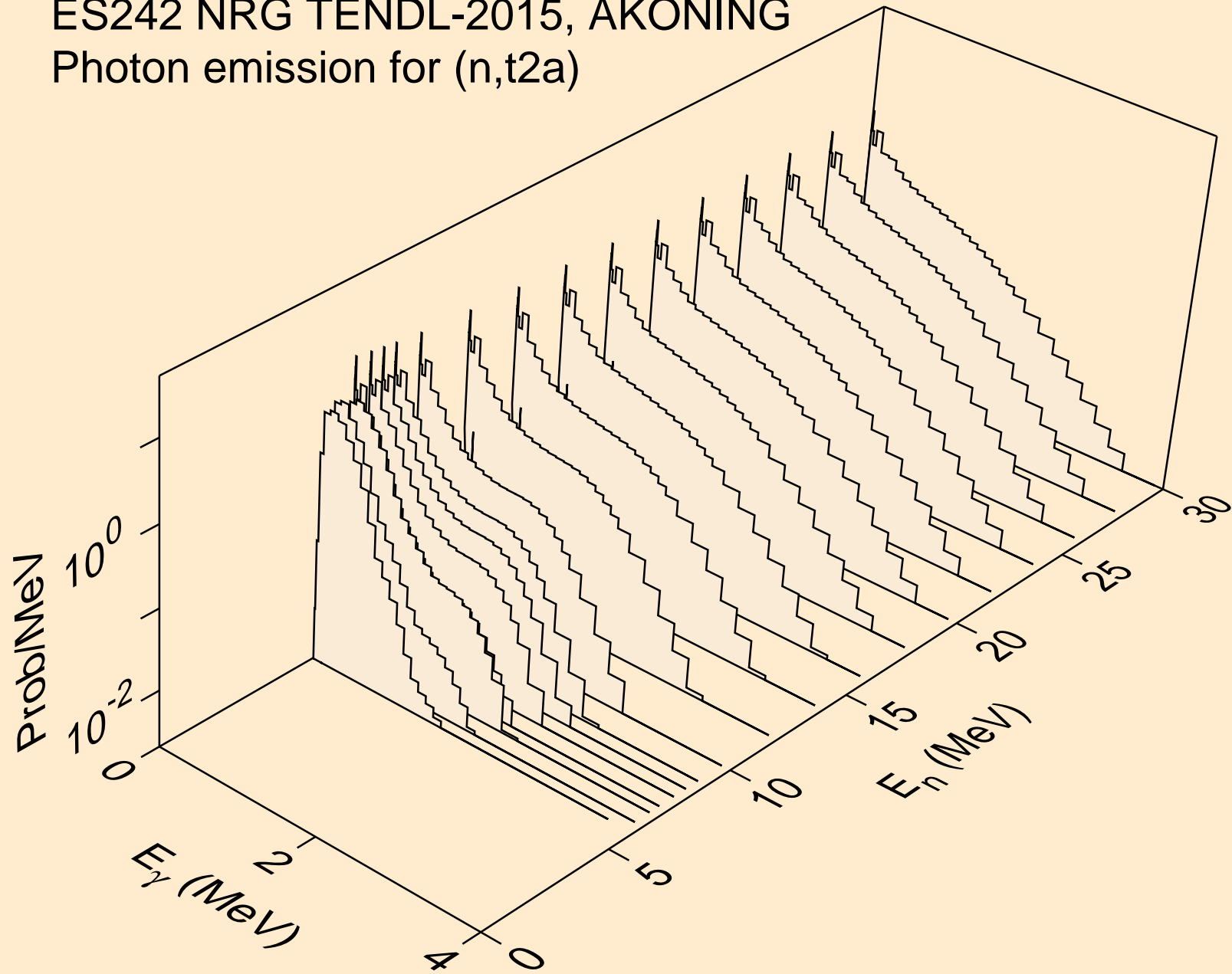


ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,pa)

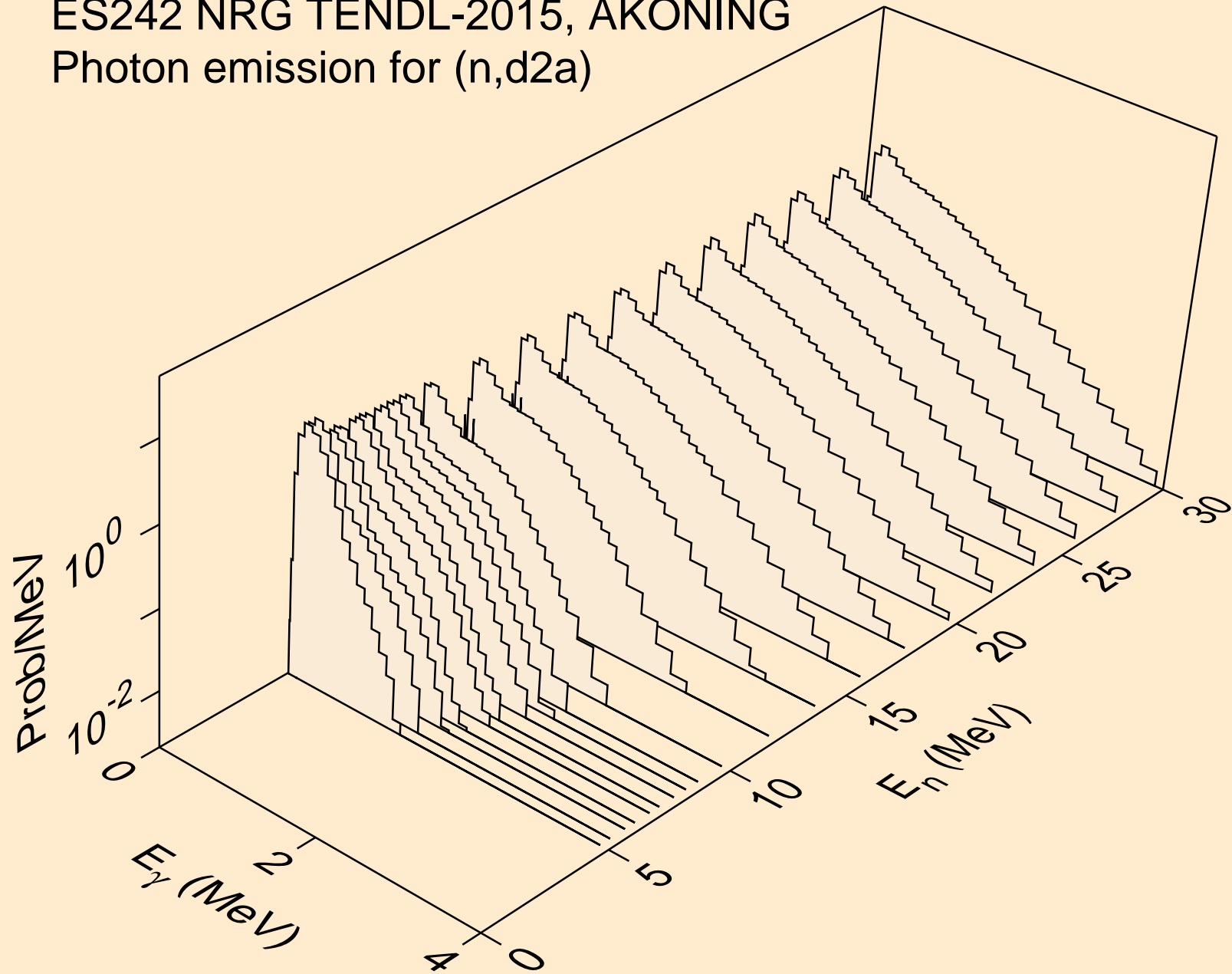




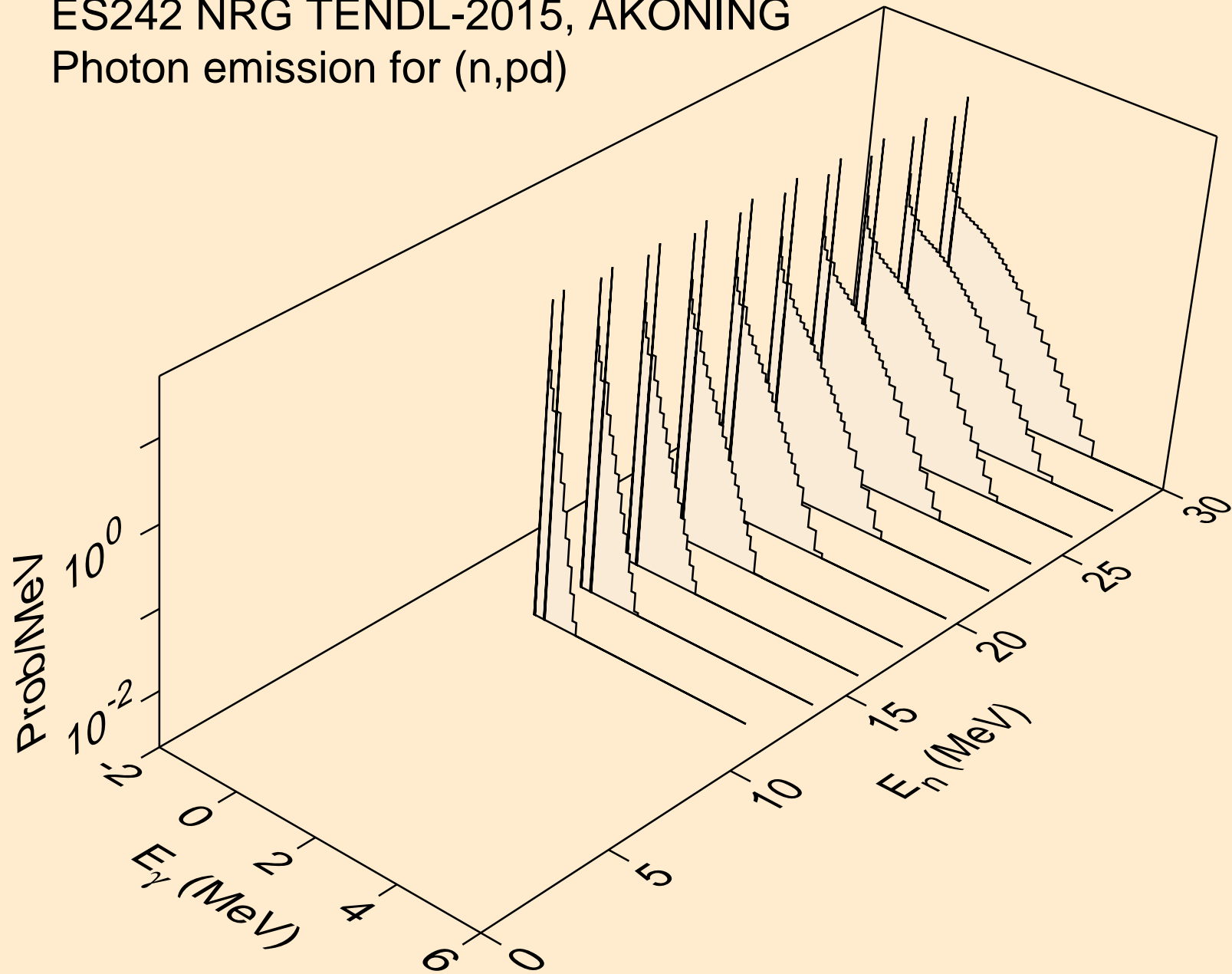
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,t2a)



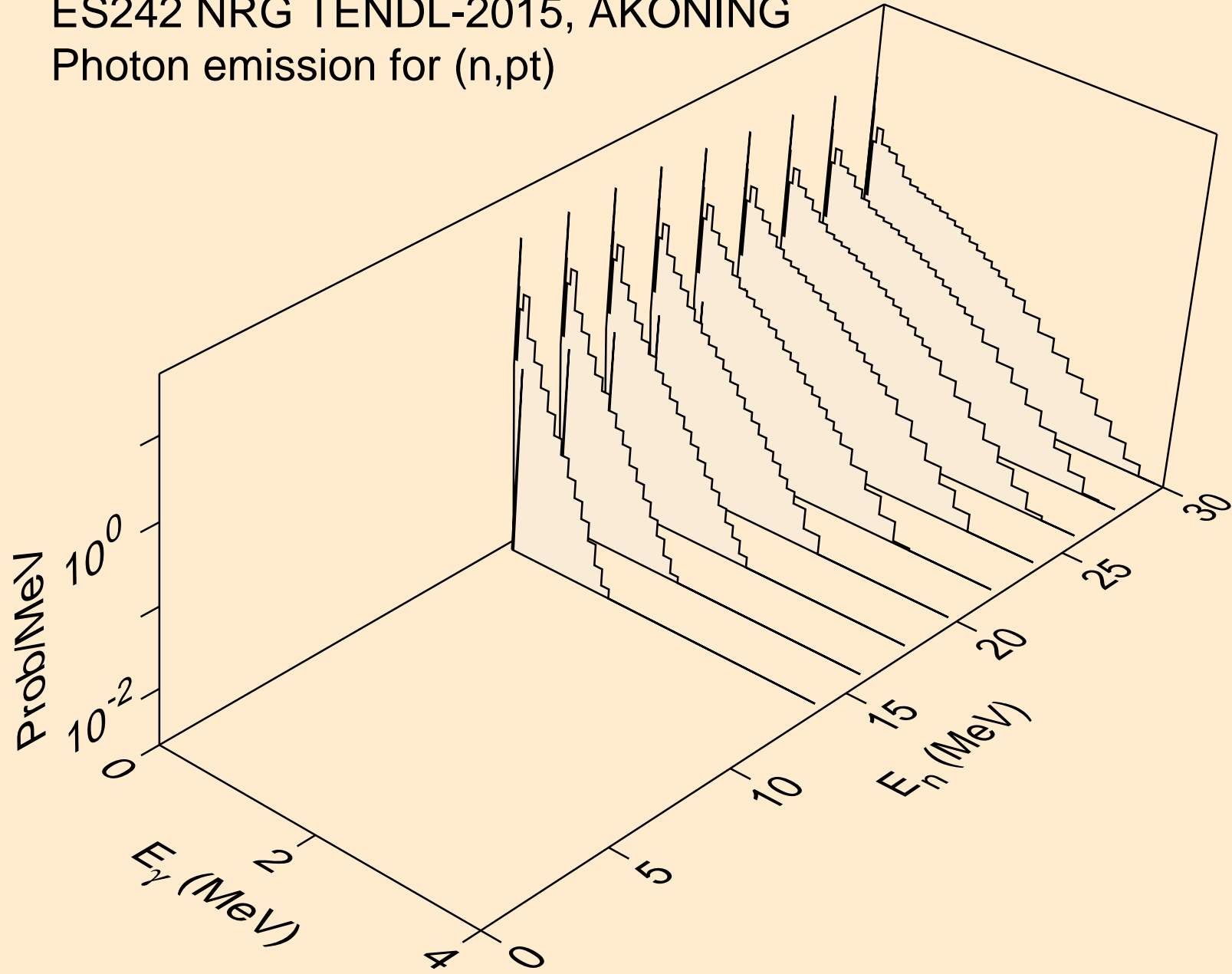
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,d2a)



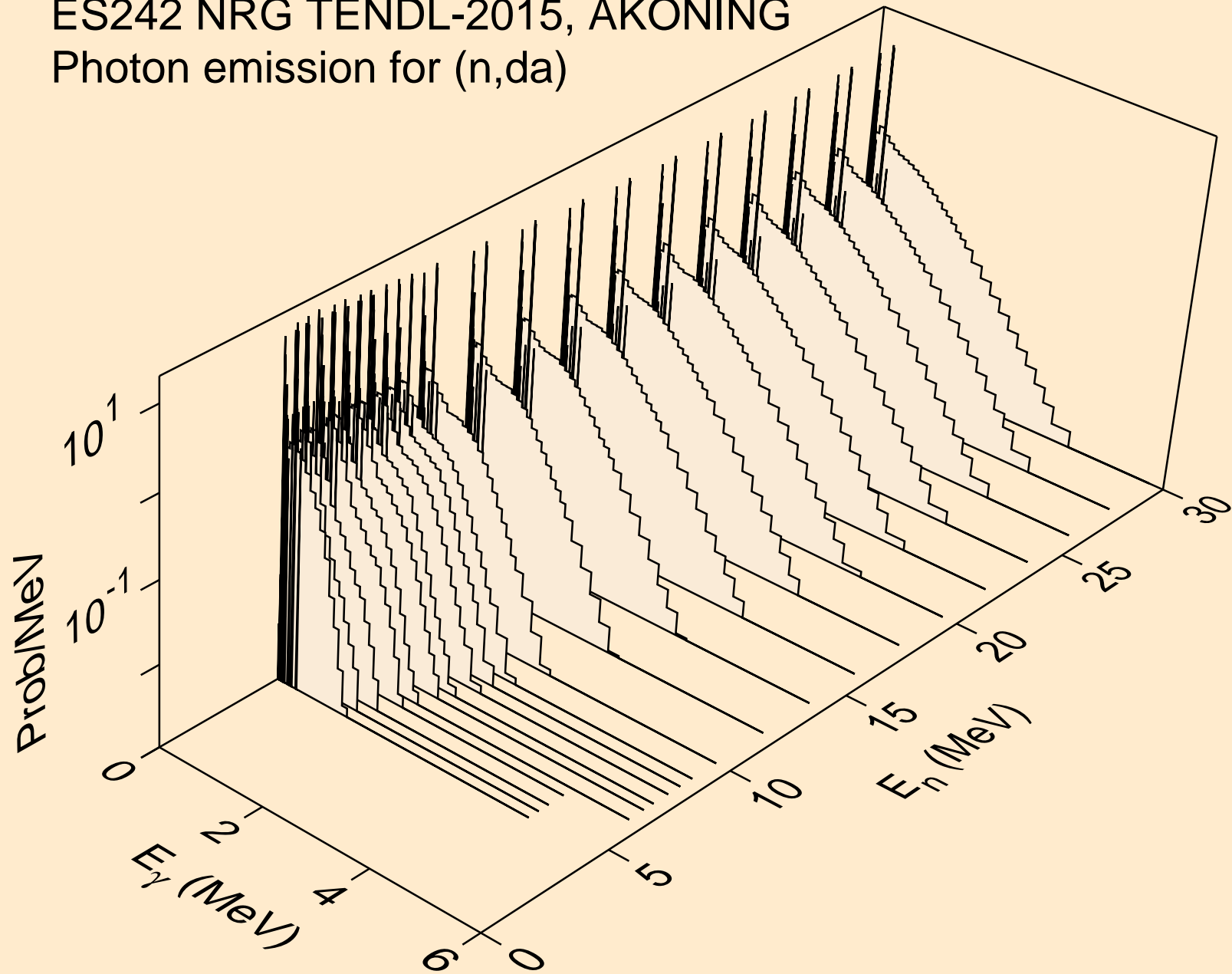
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,pd)



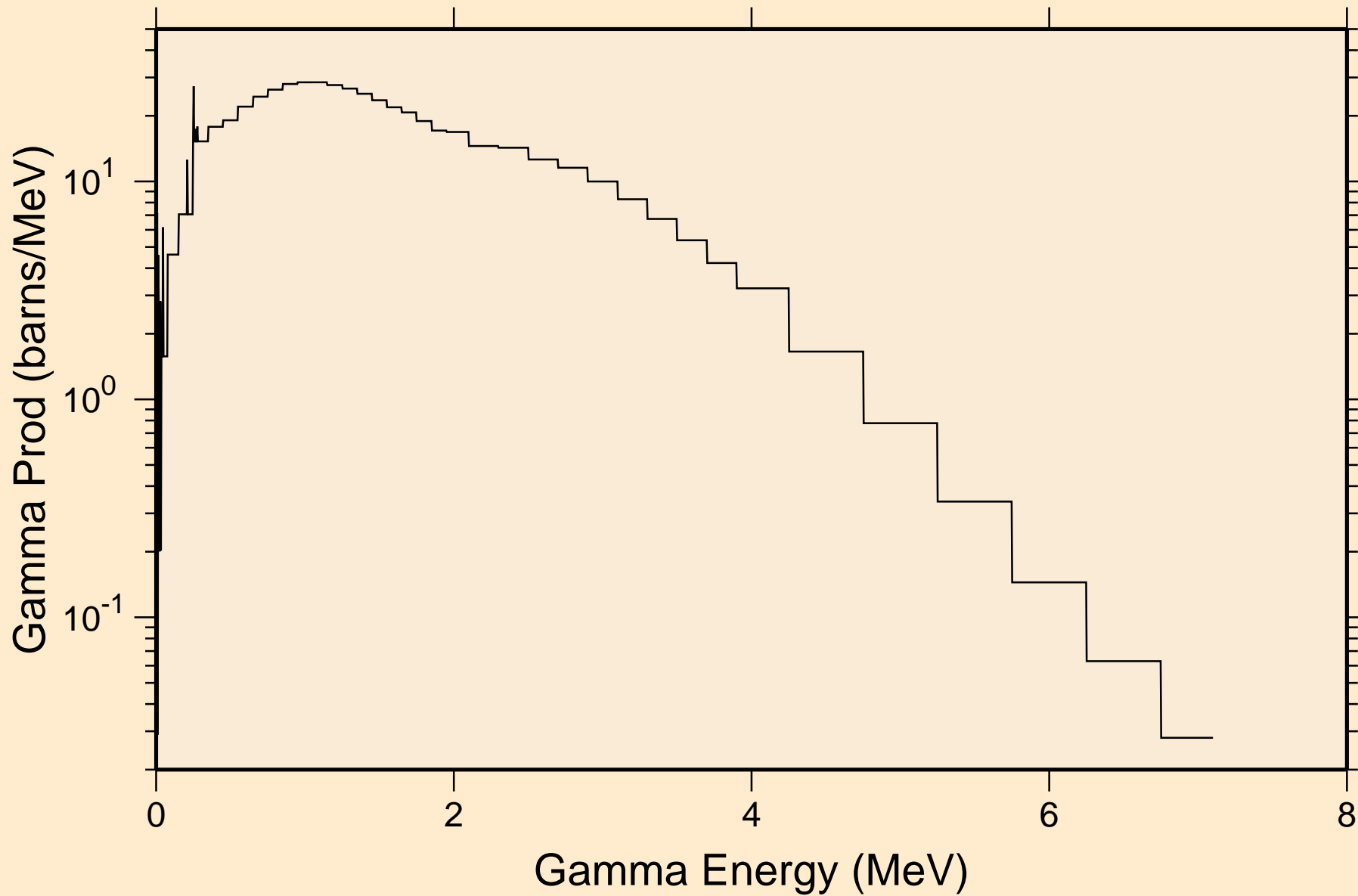
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,pt)



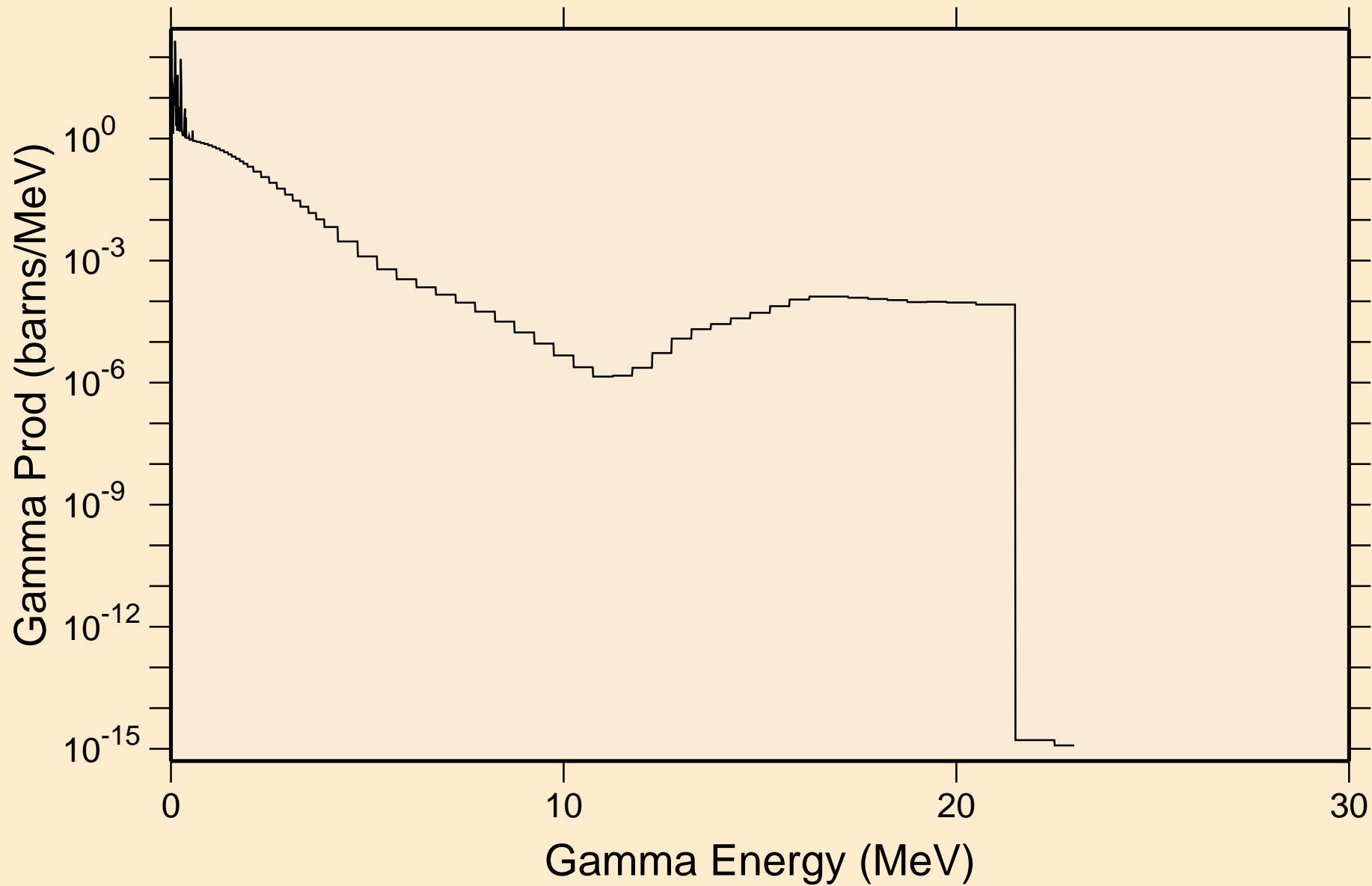
ES242 NRG TENDL-2015, AKONING  
Photon emission for (n,da)



ES242 NRG TENDL-2015, AKONING  
thermal capture photon spectrum

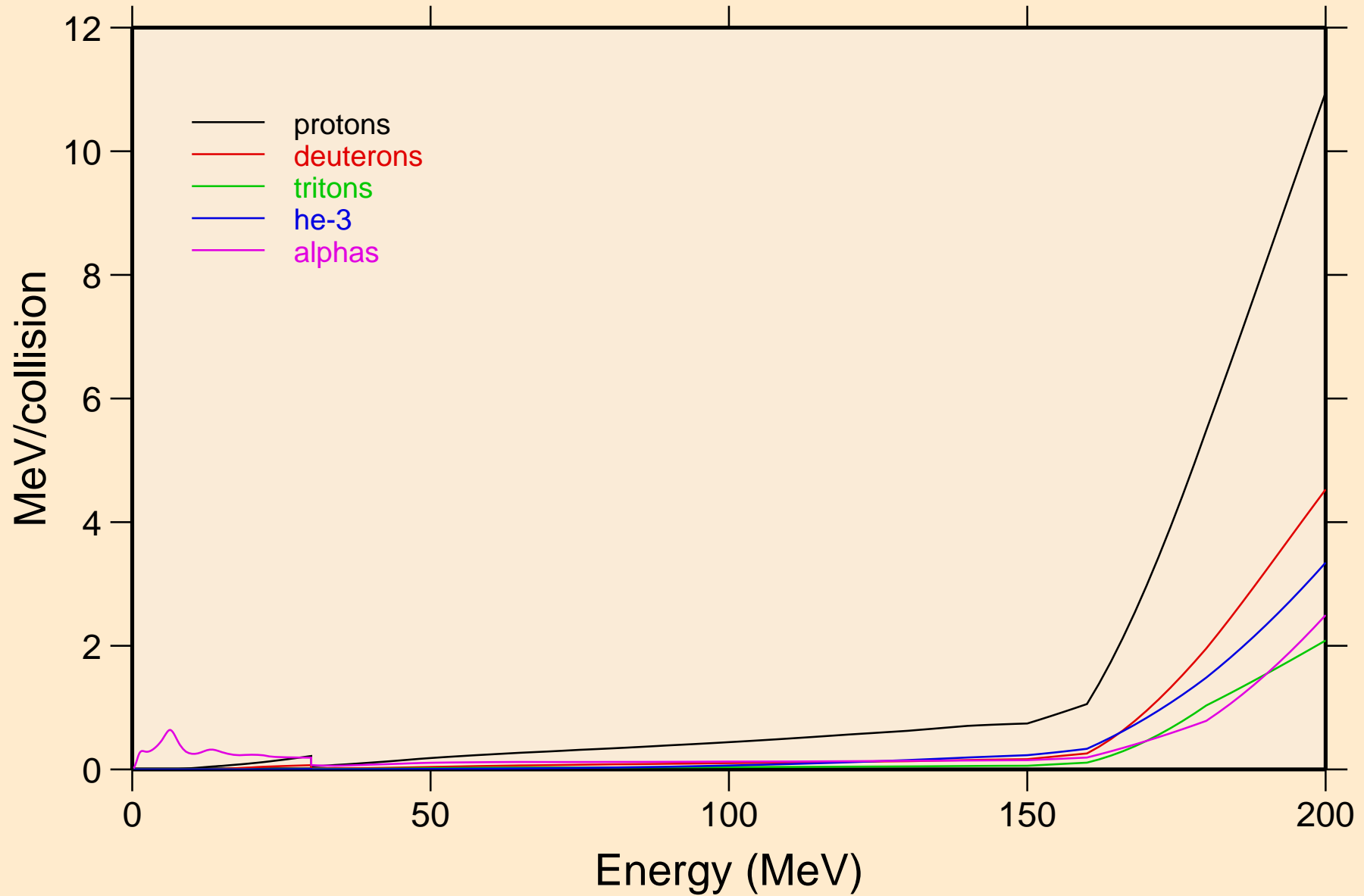


ES242 NRG TENDL-2015, AKONING  
14 MeV photon spectrum



# ES242 NRG TENDL-2015, AKONING

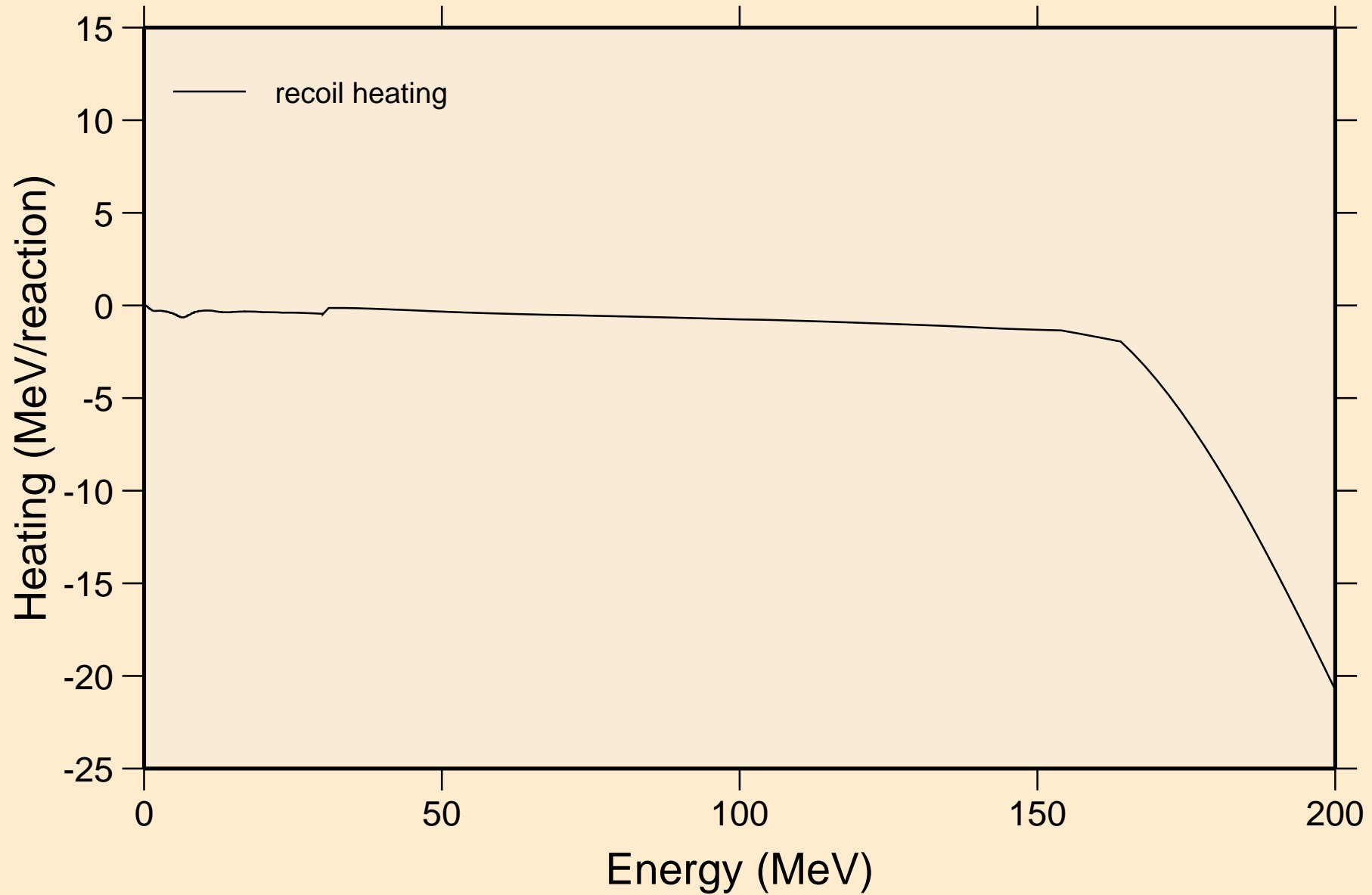
## Particle heating contributions





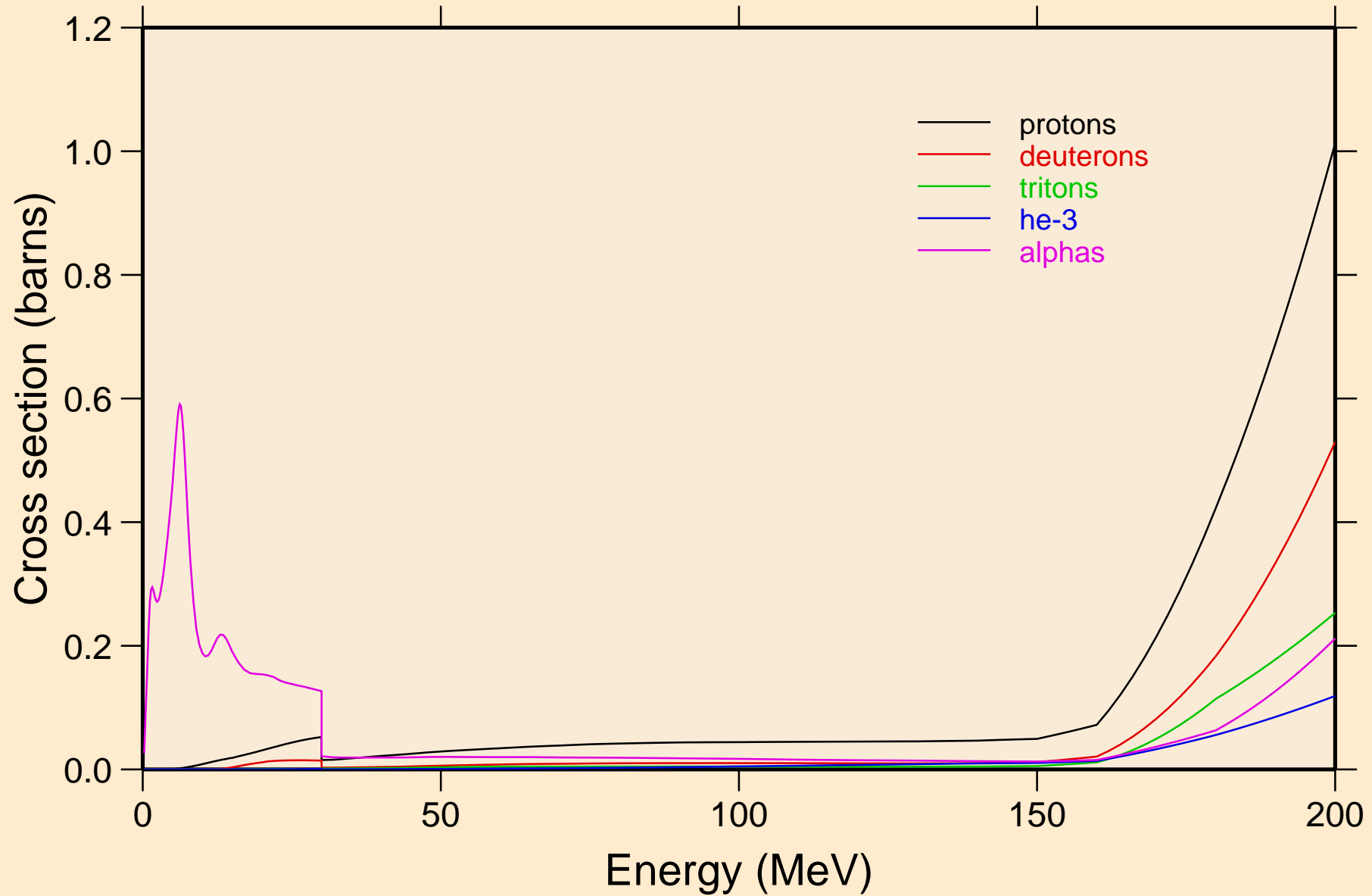
# ES242 NRG TENDL-2015, AKONING

## Recoil Heating

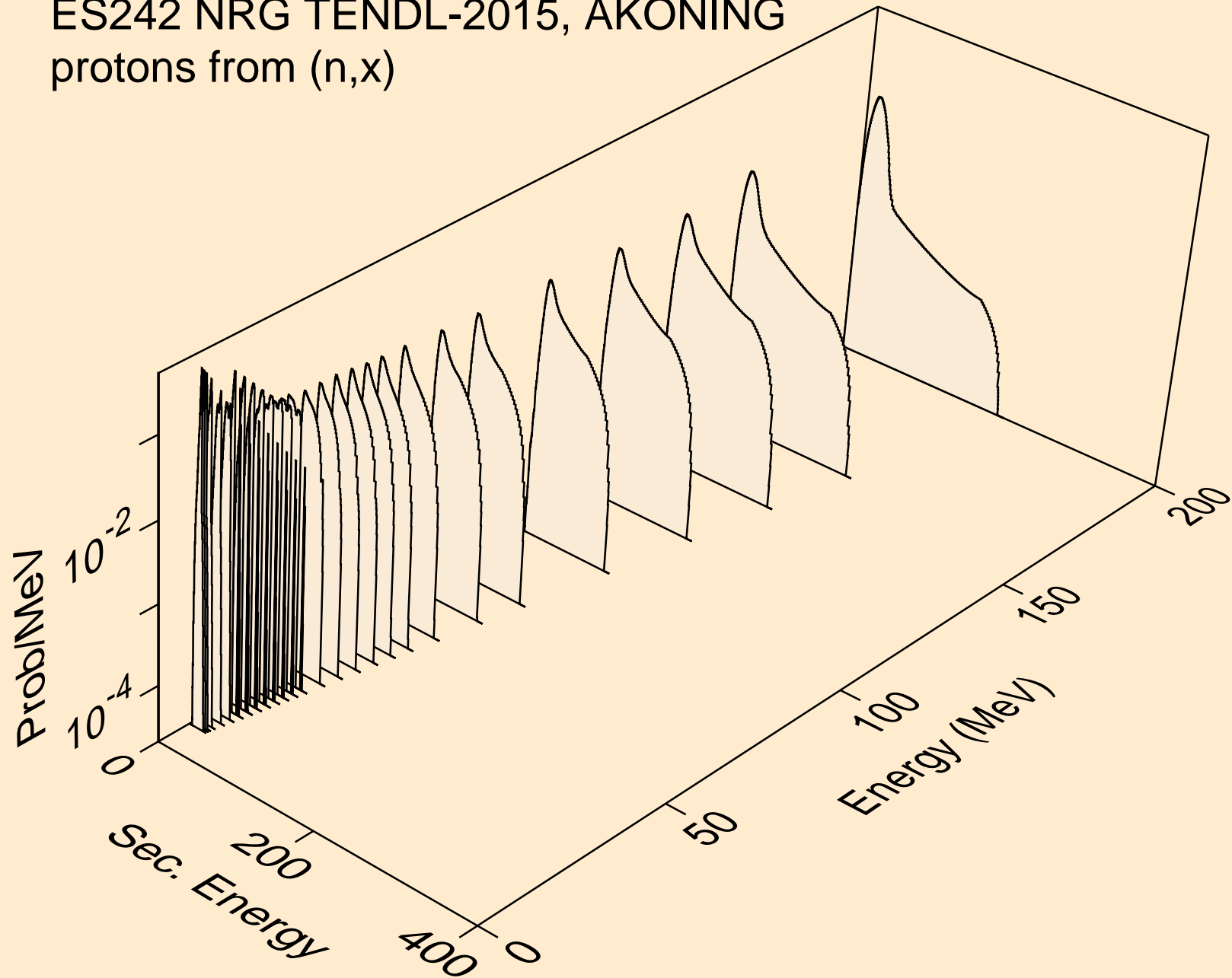


# ES242 NRG TENDL-2015, AKONING

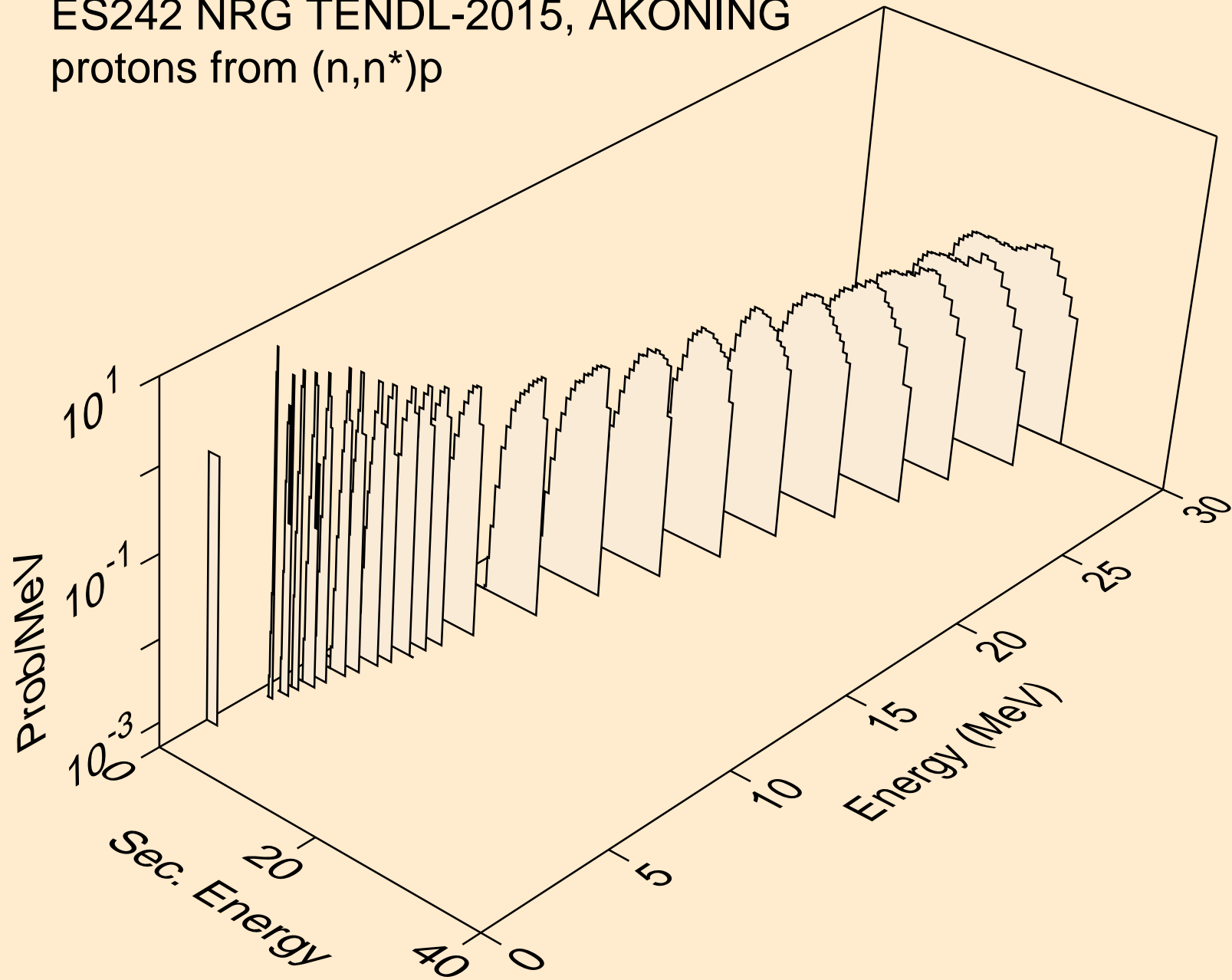
## Particle production cross sections



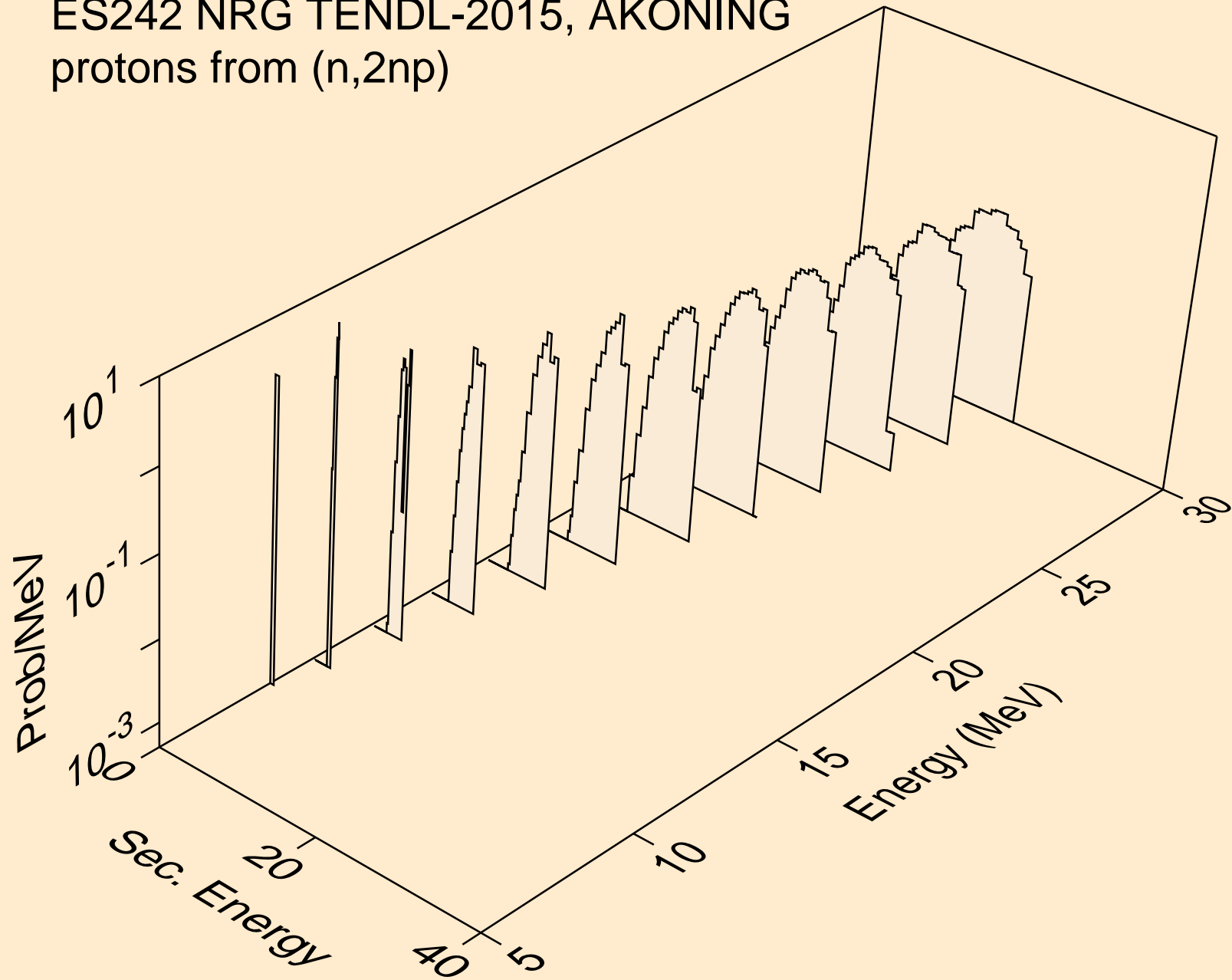
ES242 NRG TENDL-2015, AKONING  
protons from (n,x)



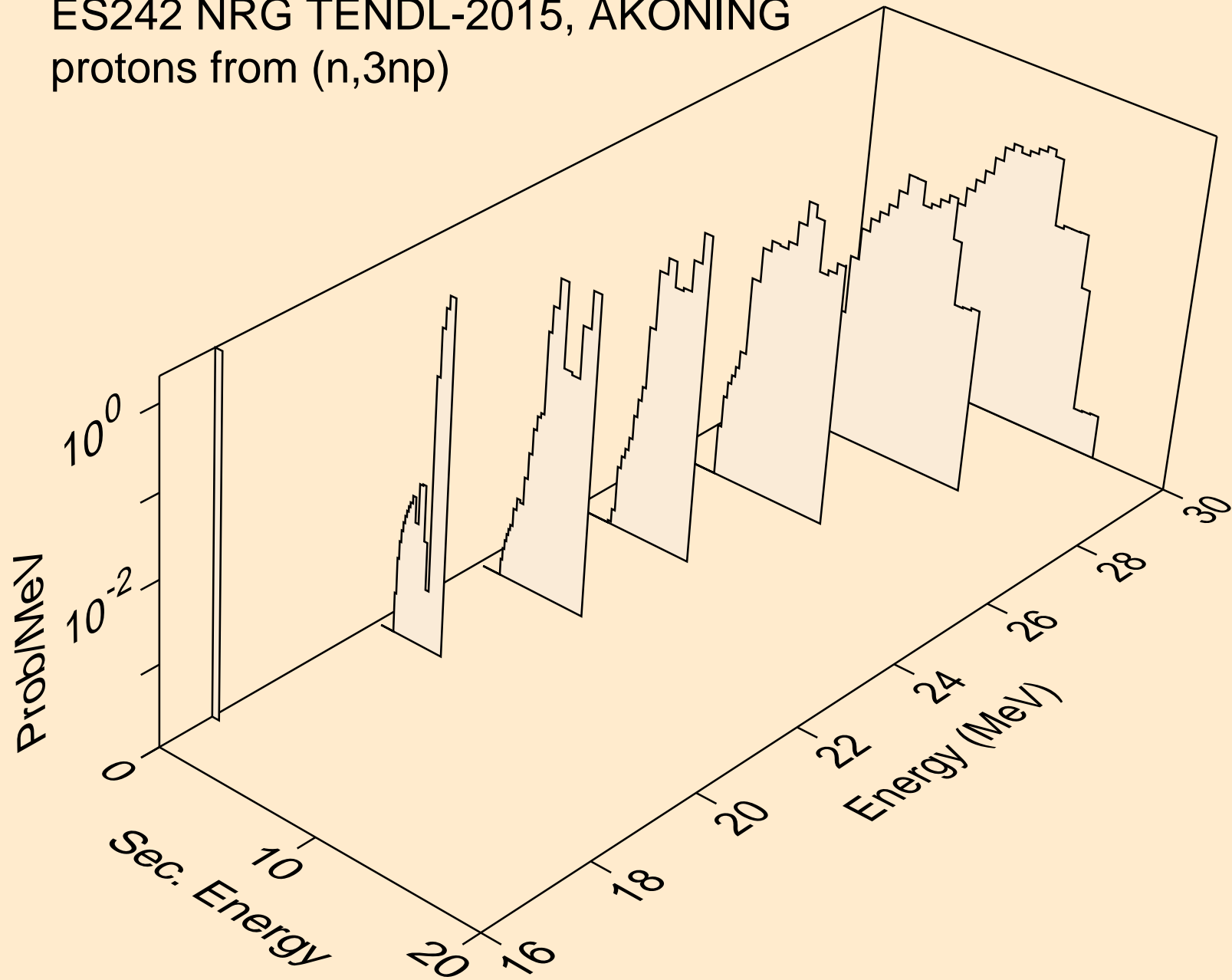
ES242 NRG TENDL-2015, AKONING  
protons from (n,n\*)p



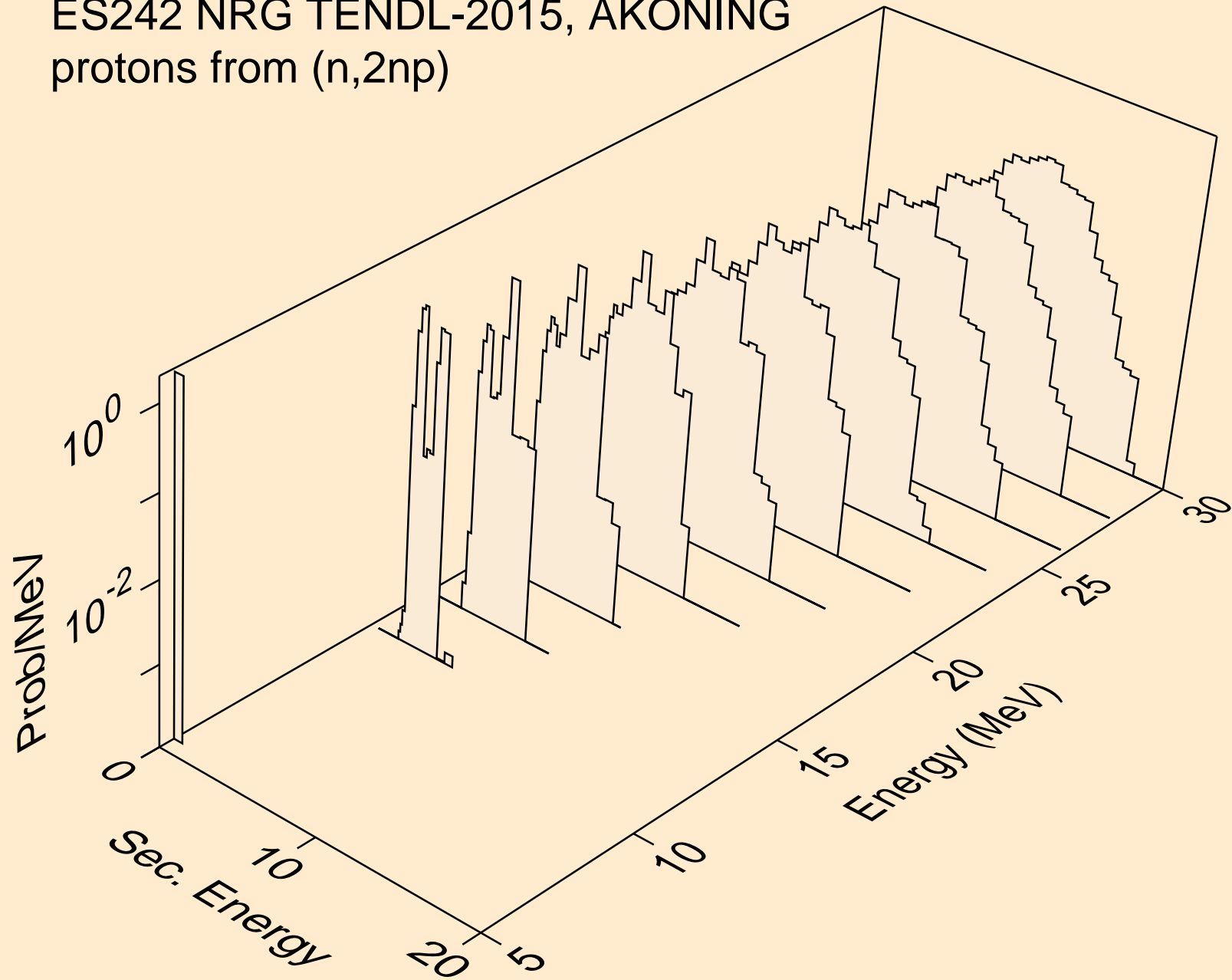
ES242 NRG TENDL-2015, AKONING  
protons from (n,2np)



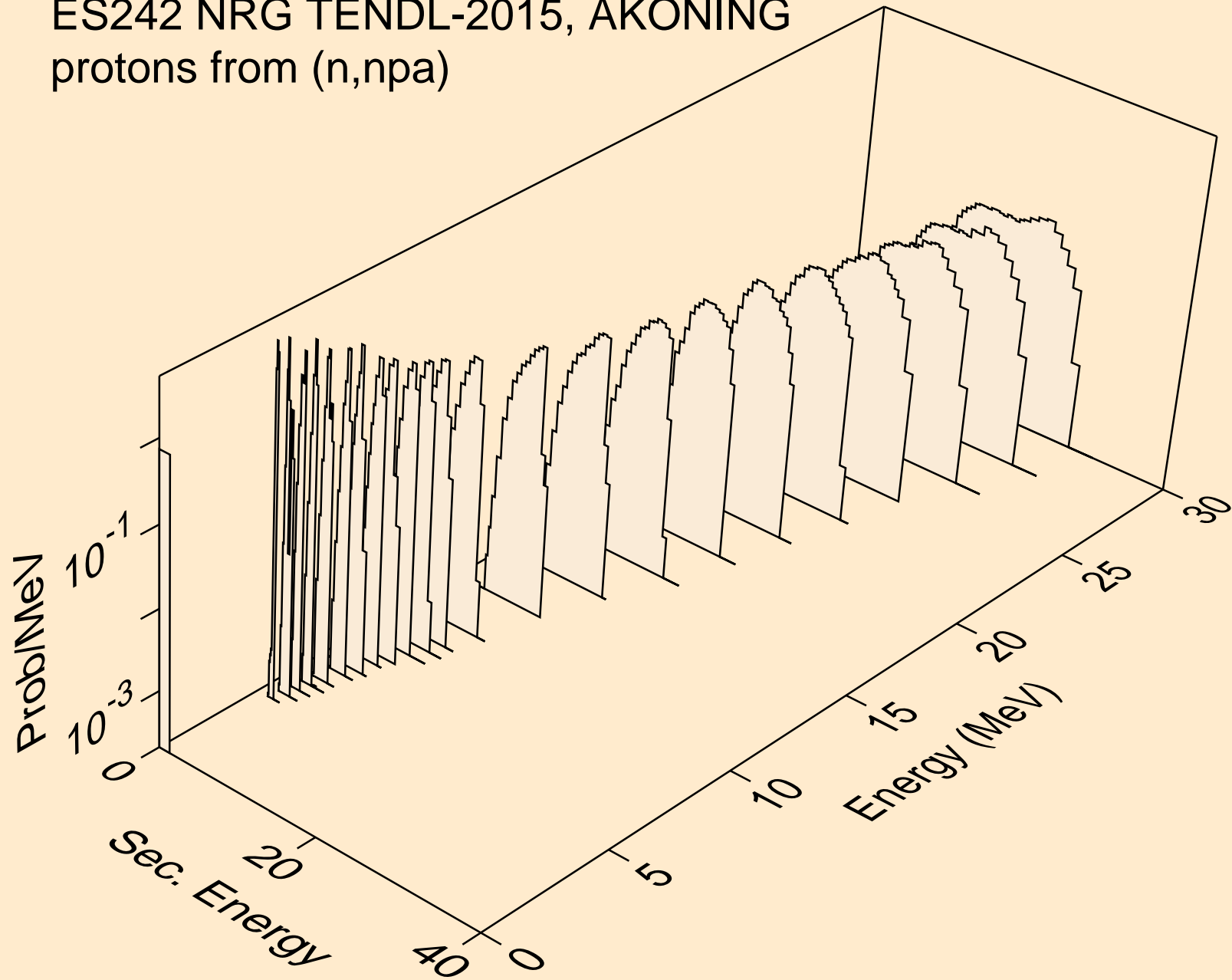
ES242 NRG TENDL-2015, AKONING  
protons from (n,3np)



ES242 NRG TENDL-2015, AKONING  
protons from (n,2np)

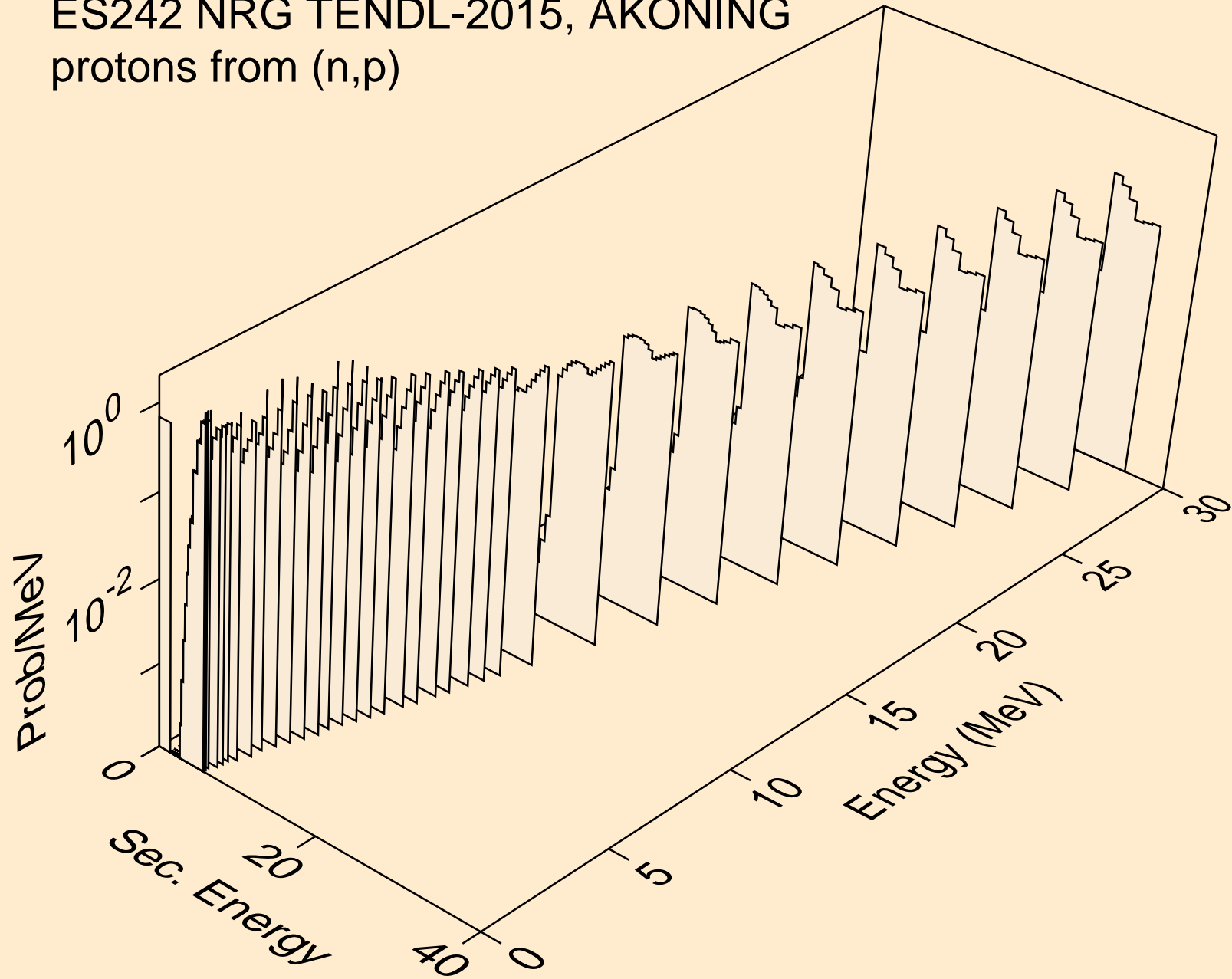


ES242 NRG TENDL-2015, AKONING  
protons from (n,npa)

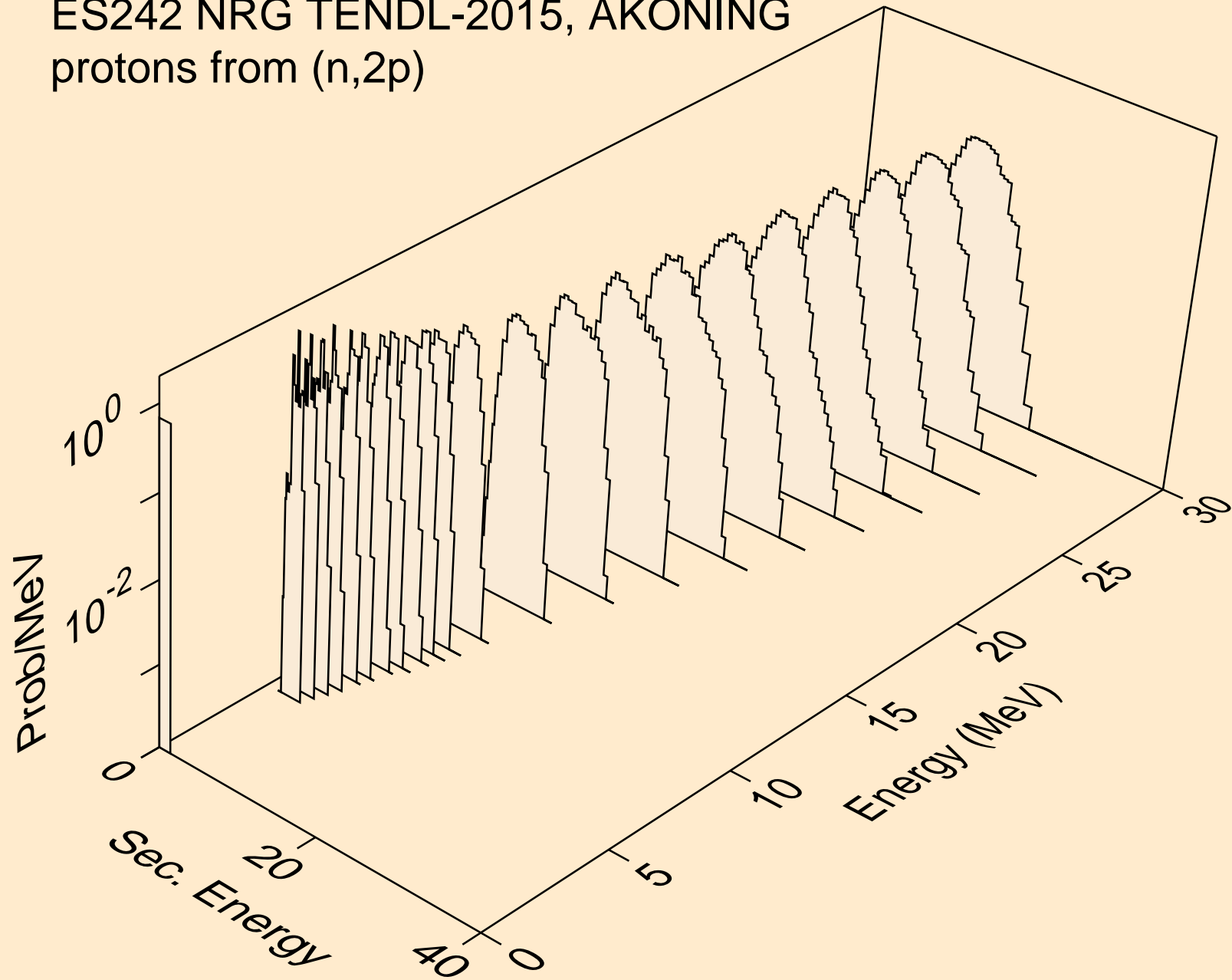




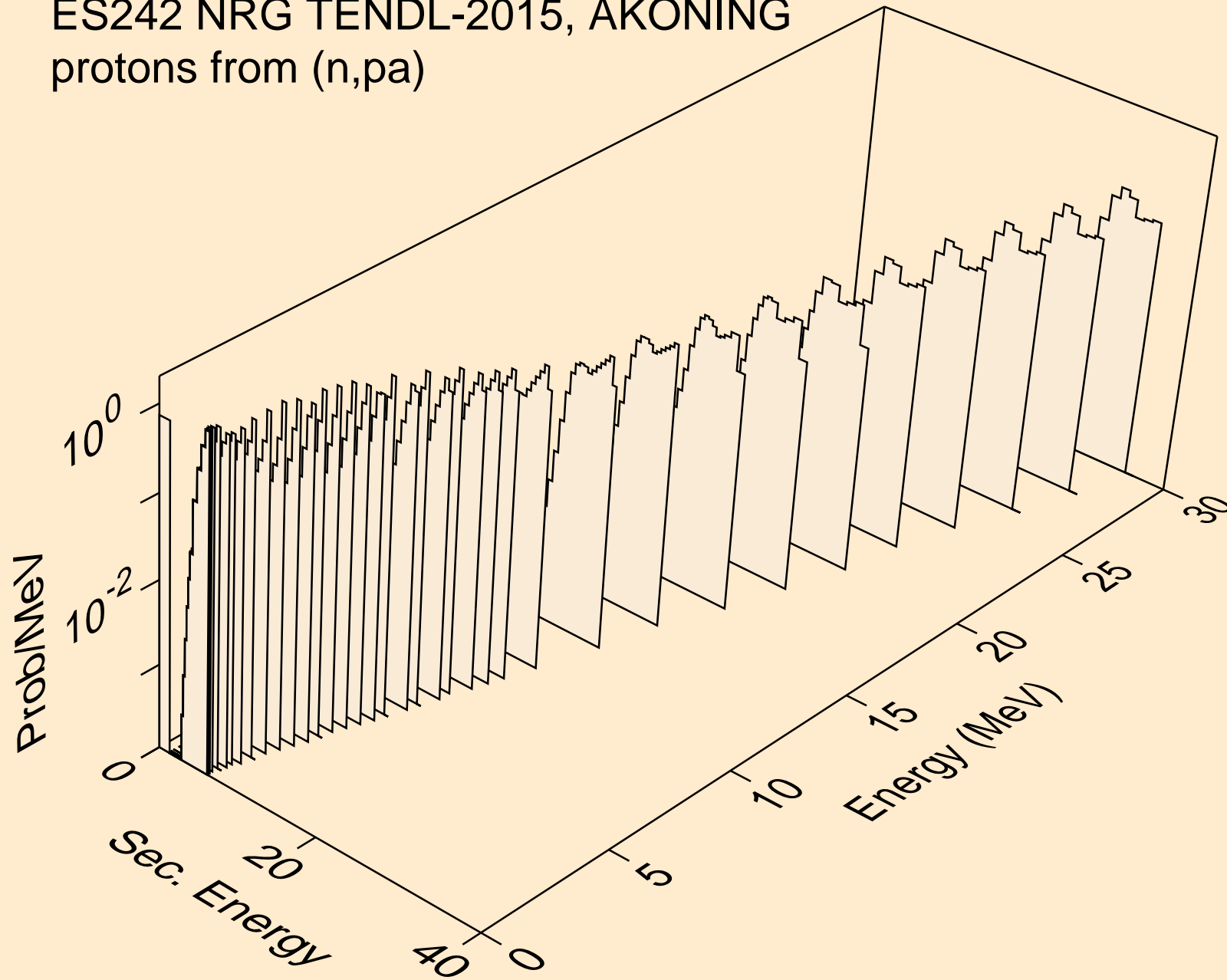
ES242 NRG TENDL-2015, AKONING  
protons from (n,p)



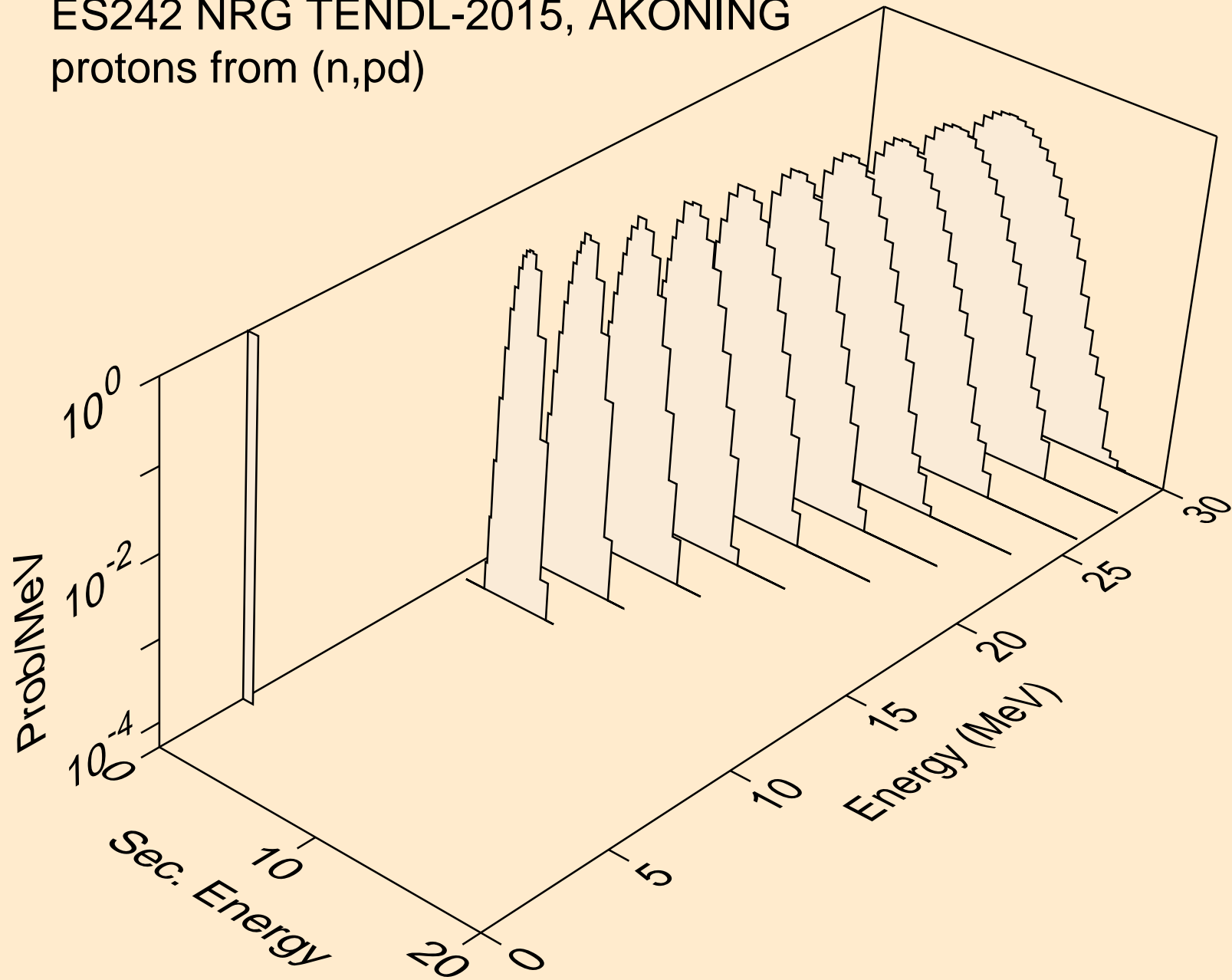
ES242 NRG TENDL-2015, AKONING  
protons from (n,2p)



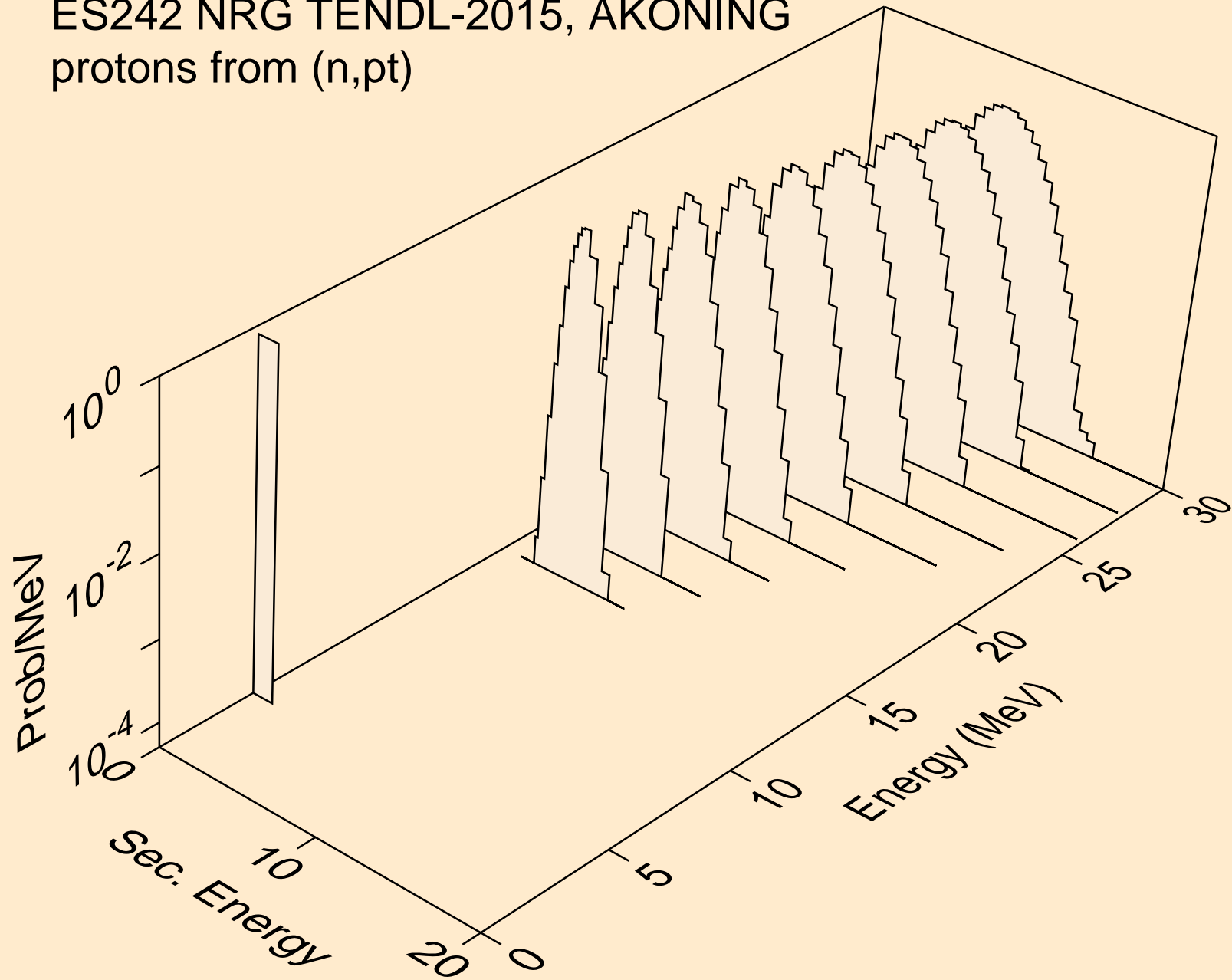
ES242 NRG TENDL-2015, AKONING  
protons from (n,pa)



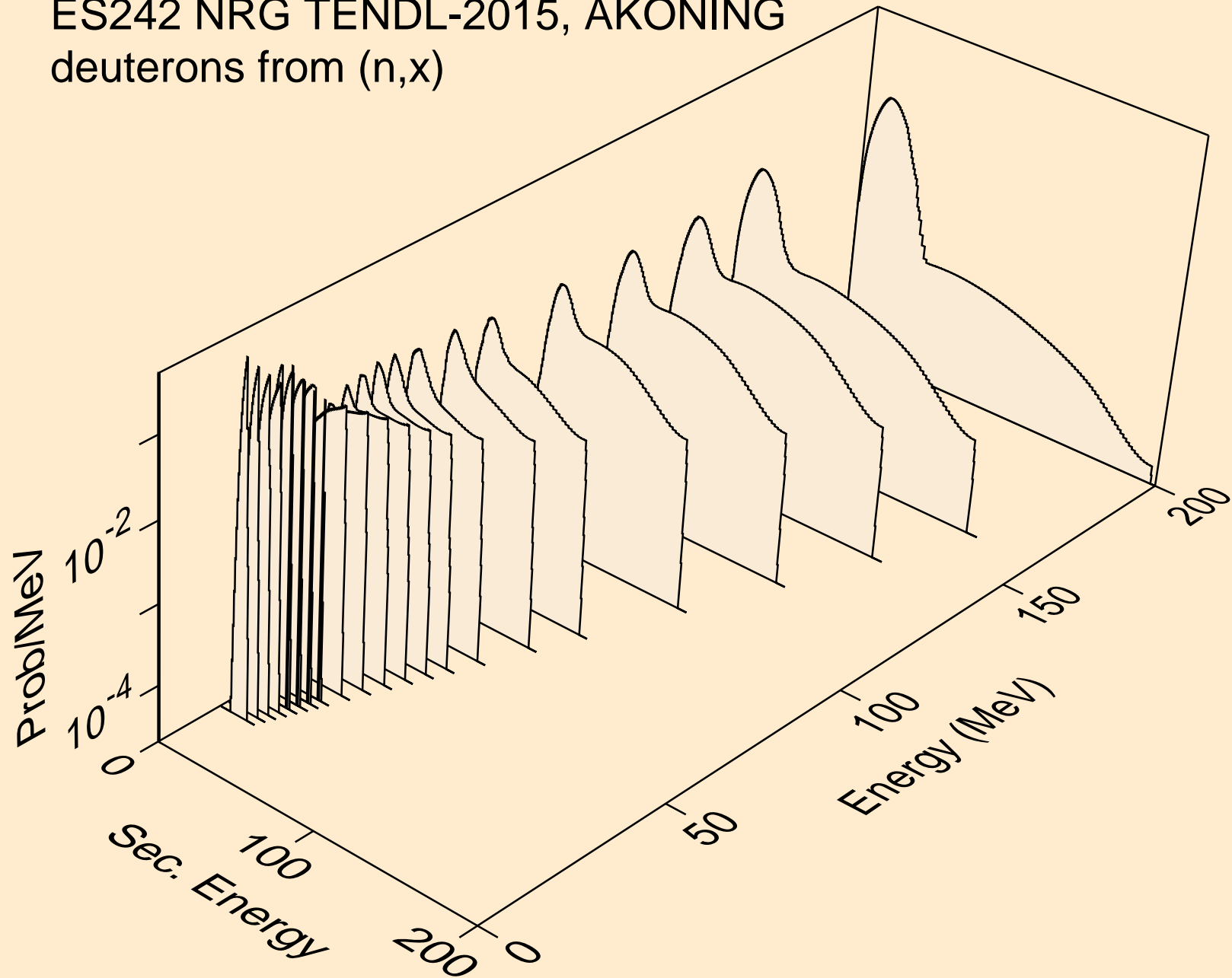
ES242 NRG TENDL-2015, AKONING  
protons from (n,pd)



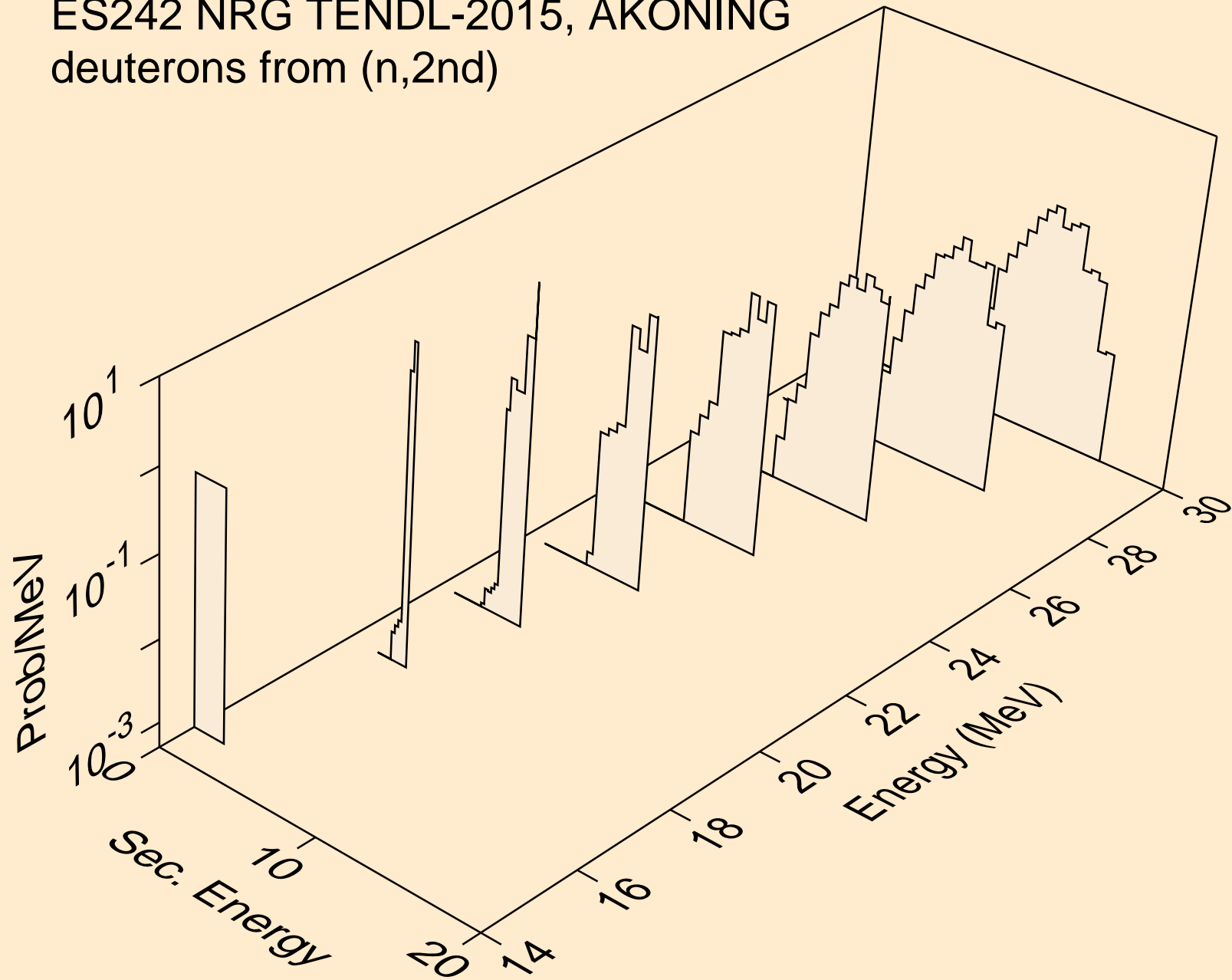
ES242 NRG TENDL-2015, AKONING  
protons from (n,pt)



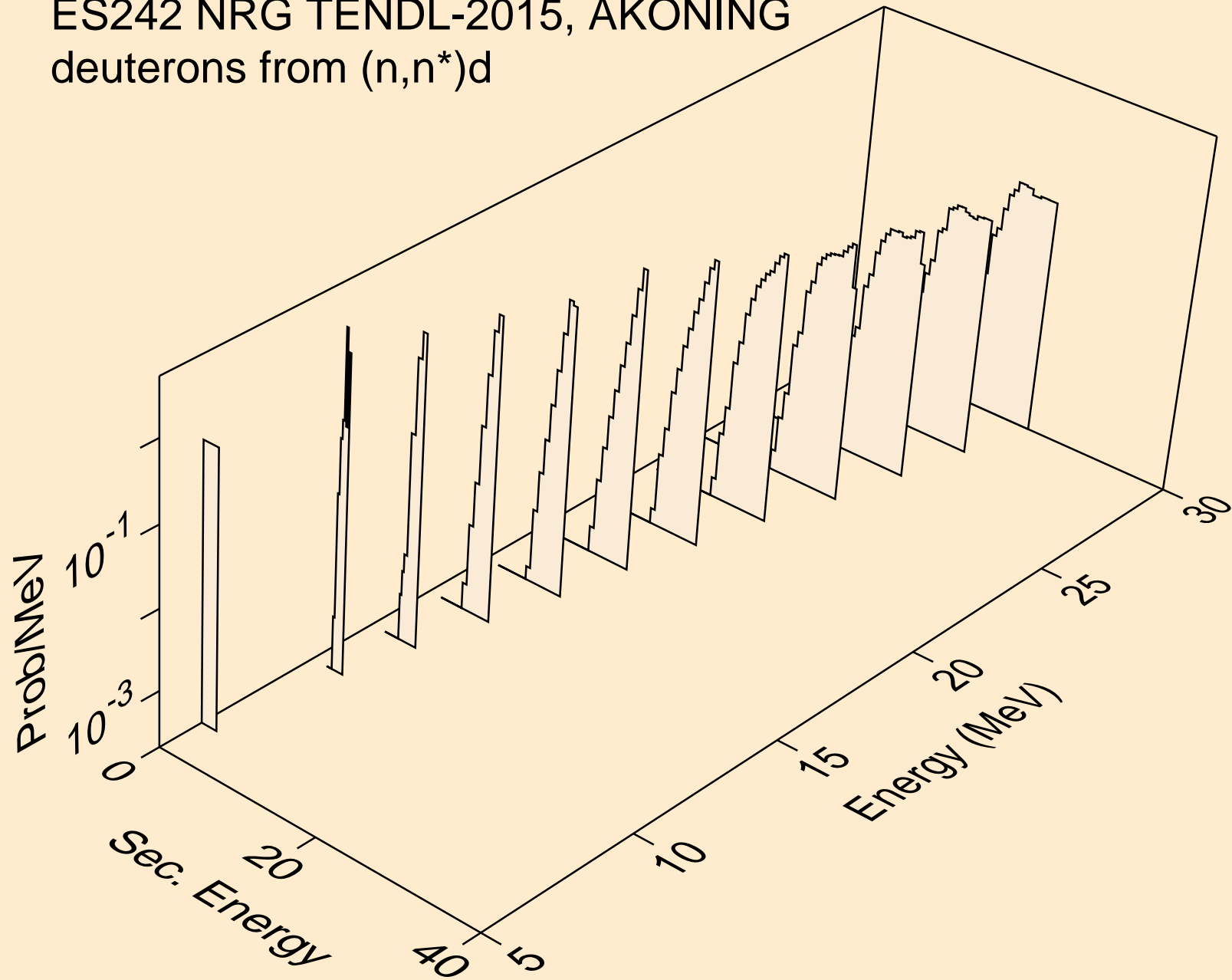
ES242 NRG TENDL-2015, AKONING  
deuterons from (n,x)



ES242 NRG TENDL-2015, AKONING  
deuterons from (n,2nd)

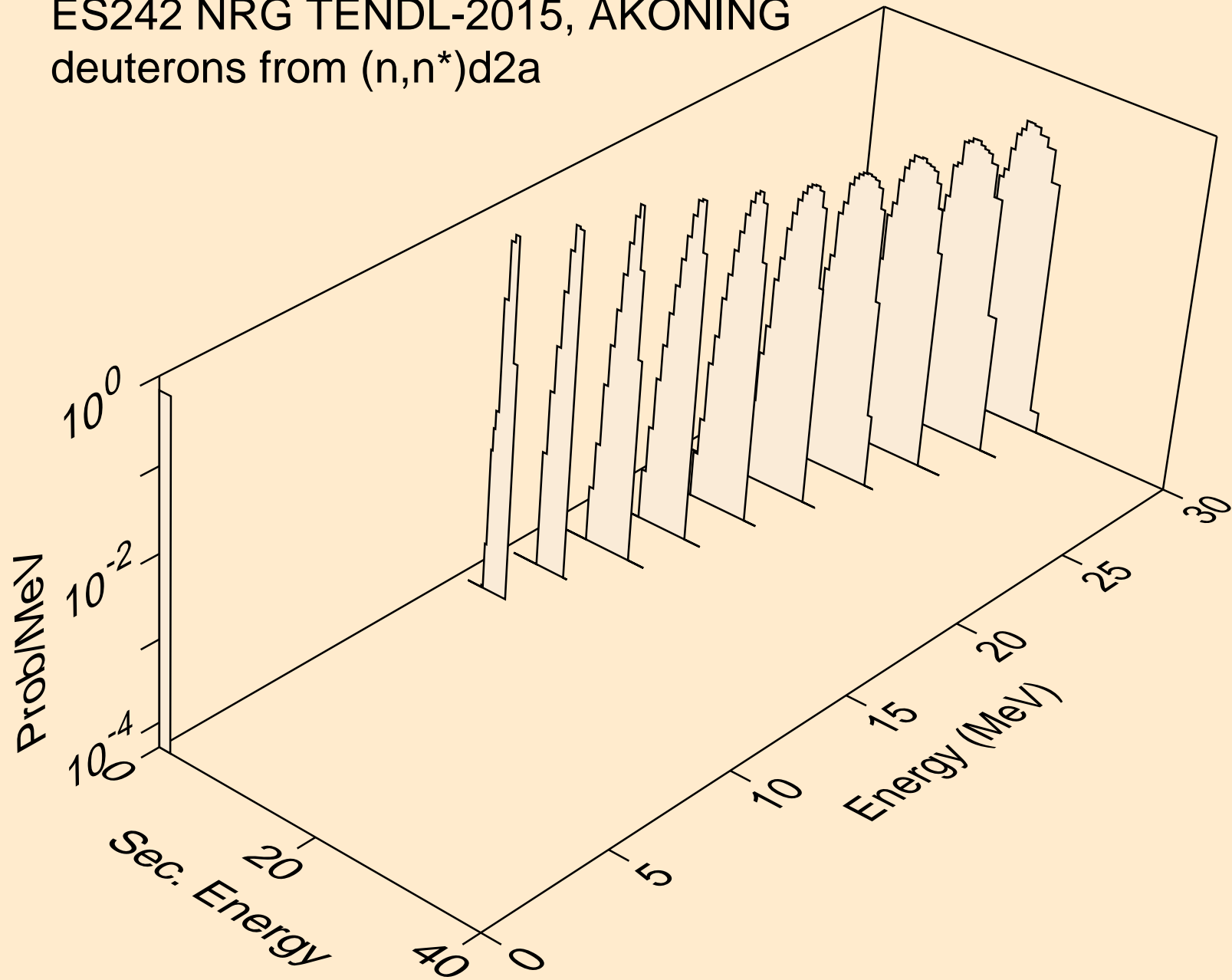


ES242 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d

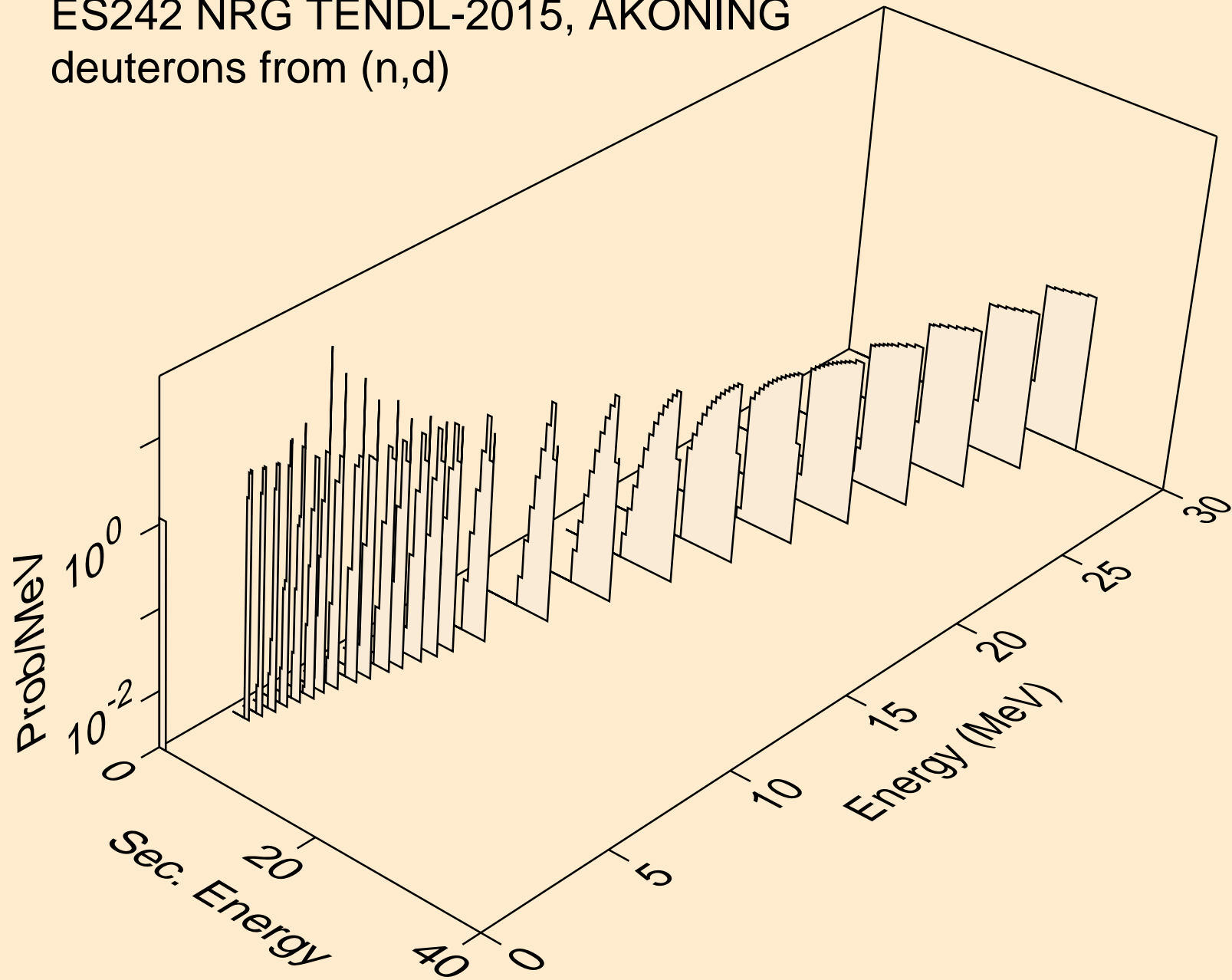




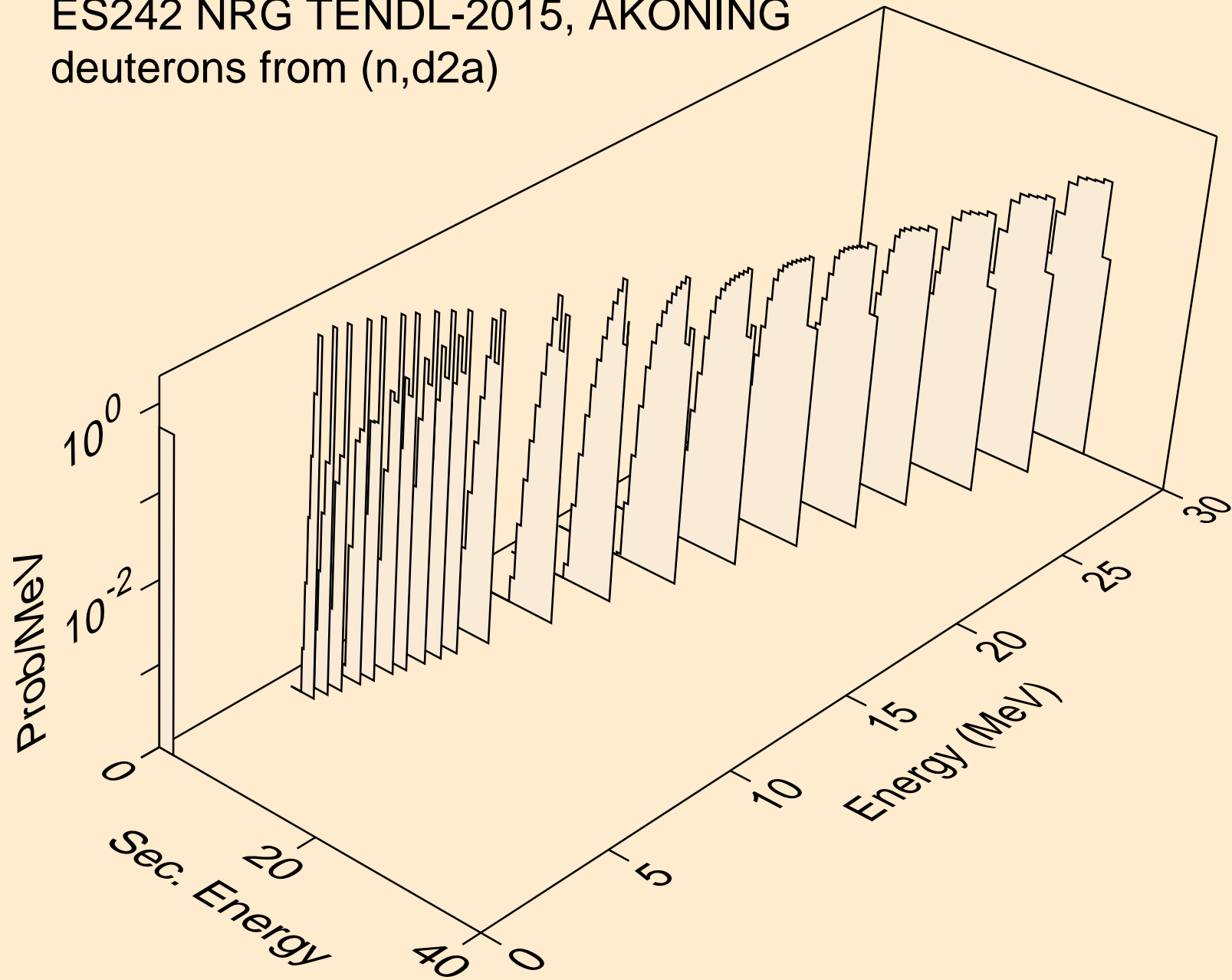
ES242 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d2a



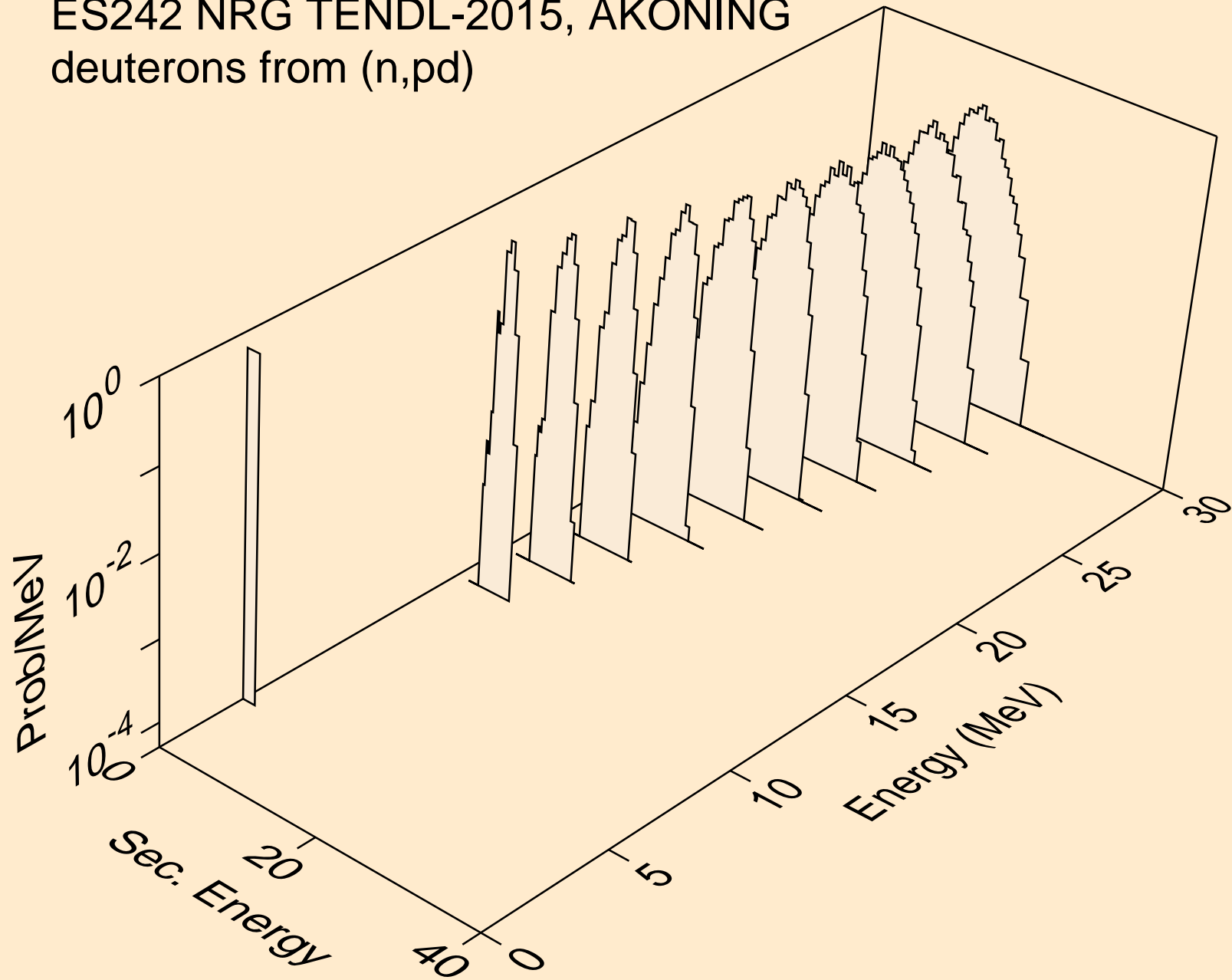
ES242 NRG TENDL-2015, AKONING  
deuterons from (n,d)



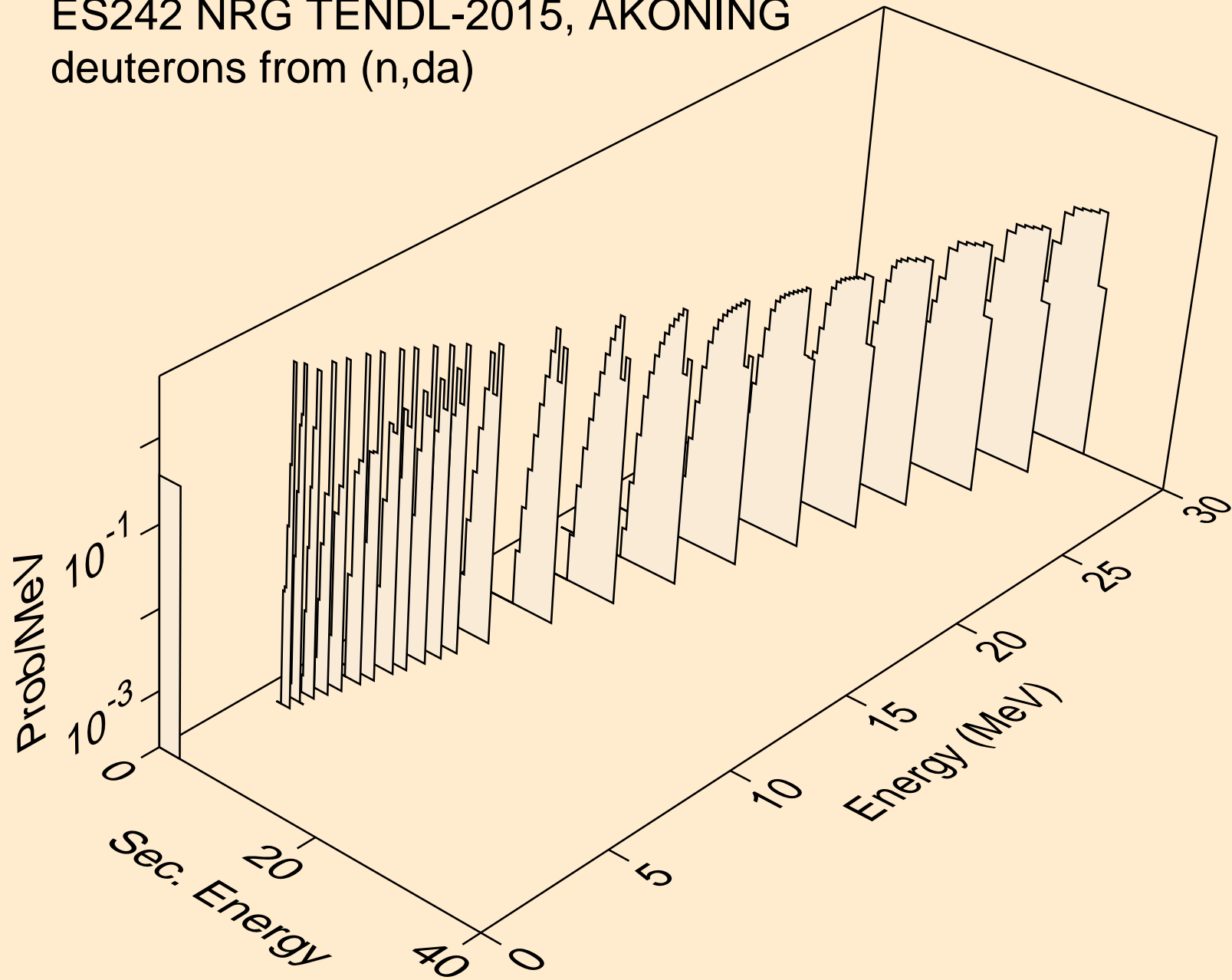
ES242 NRG TENDL-2015, AKONING  
deuterons from (n,d2a)



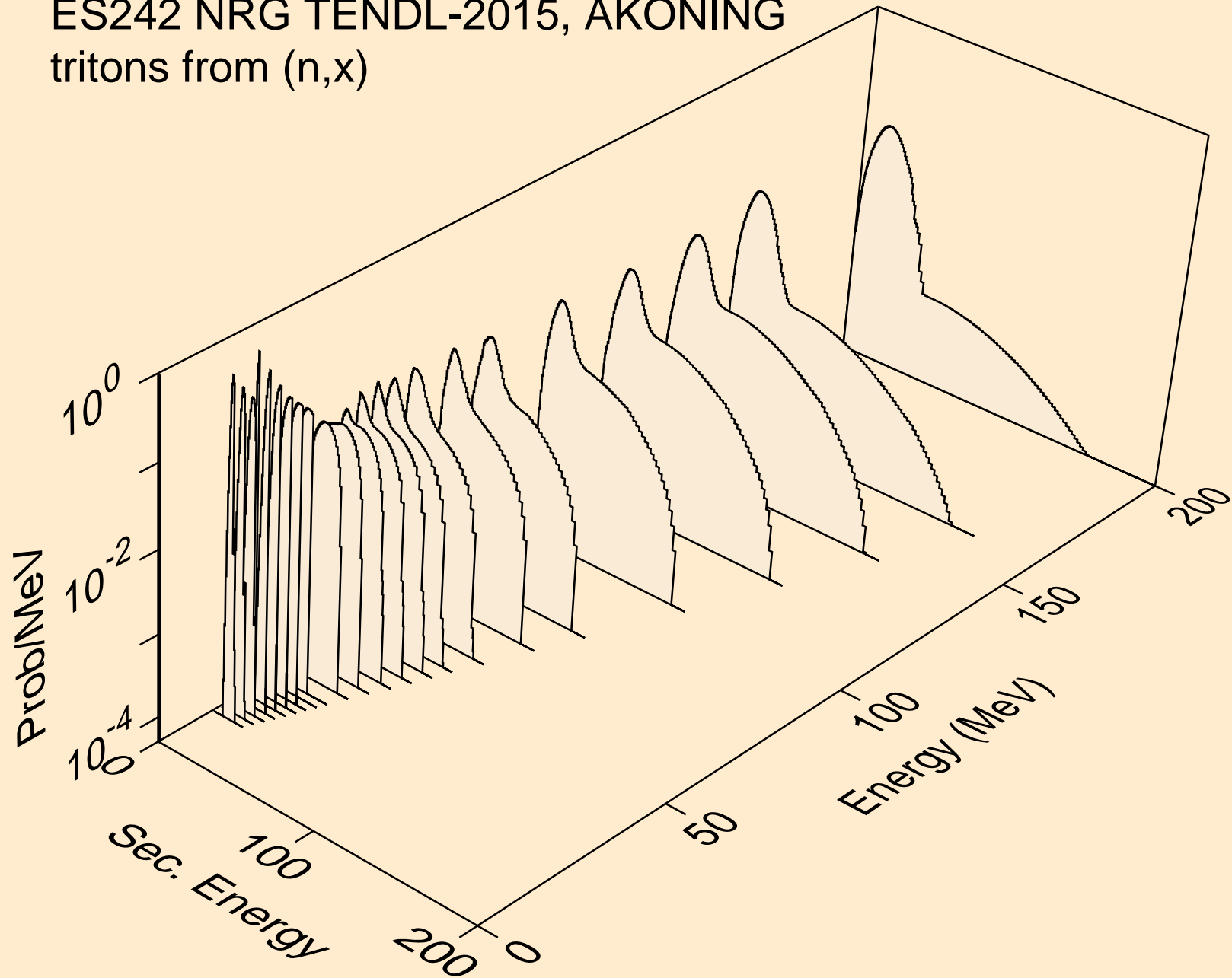
ES242 NRG TENDL-2015, AKONING  
deuterons from (n,pd)



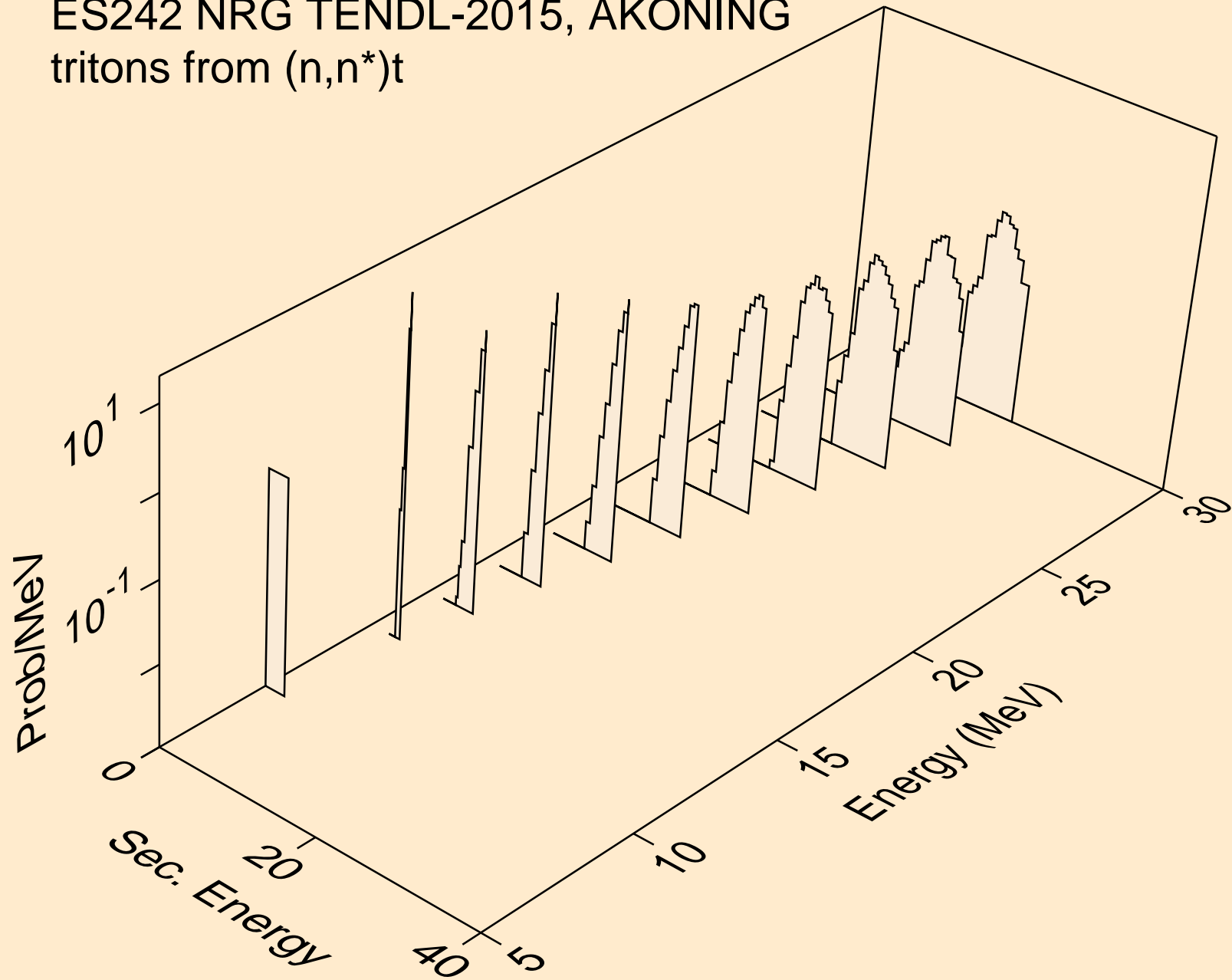
ES242 NRG TENDL-2015, AKONING  
deuterons from (n,da)



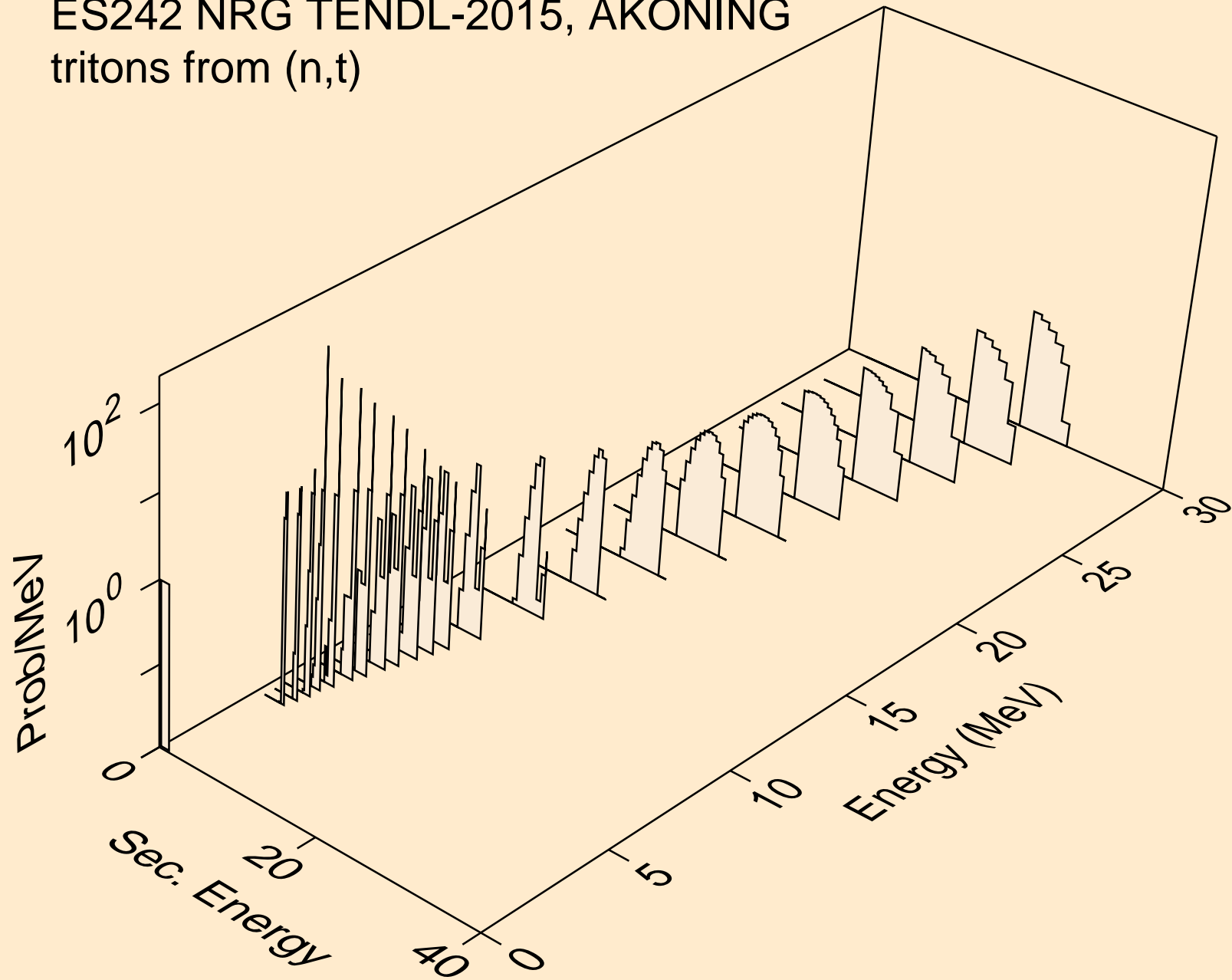
ES242 NRG TENDL-2015, AKONING  
tritons from (n,x)



ES242 NRG TENDL-2015, AKONING  
tritons from (n,n\*)t

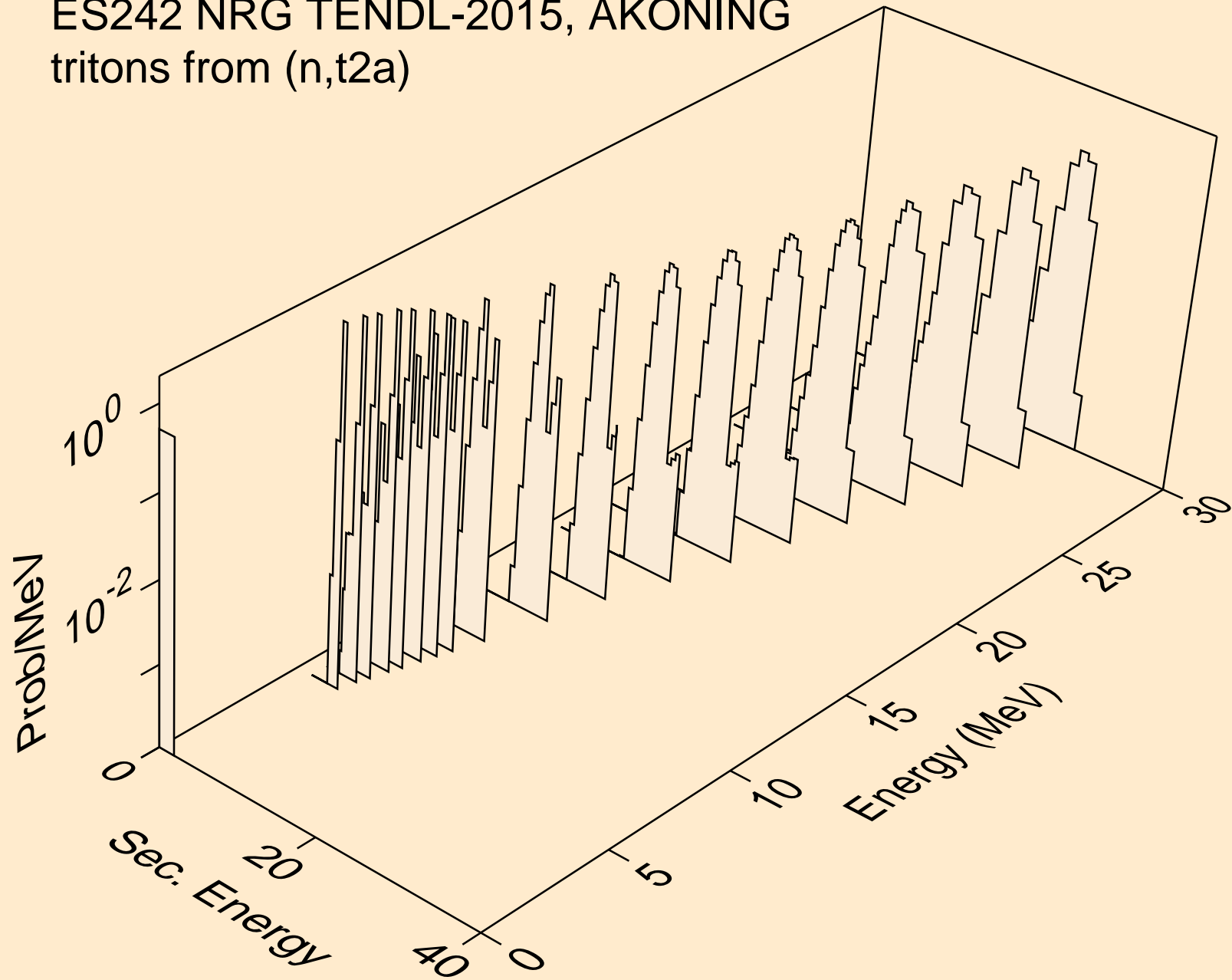


ES242 NRG TENDL-2015, AKONING  
tritons from (n,t)

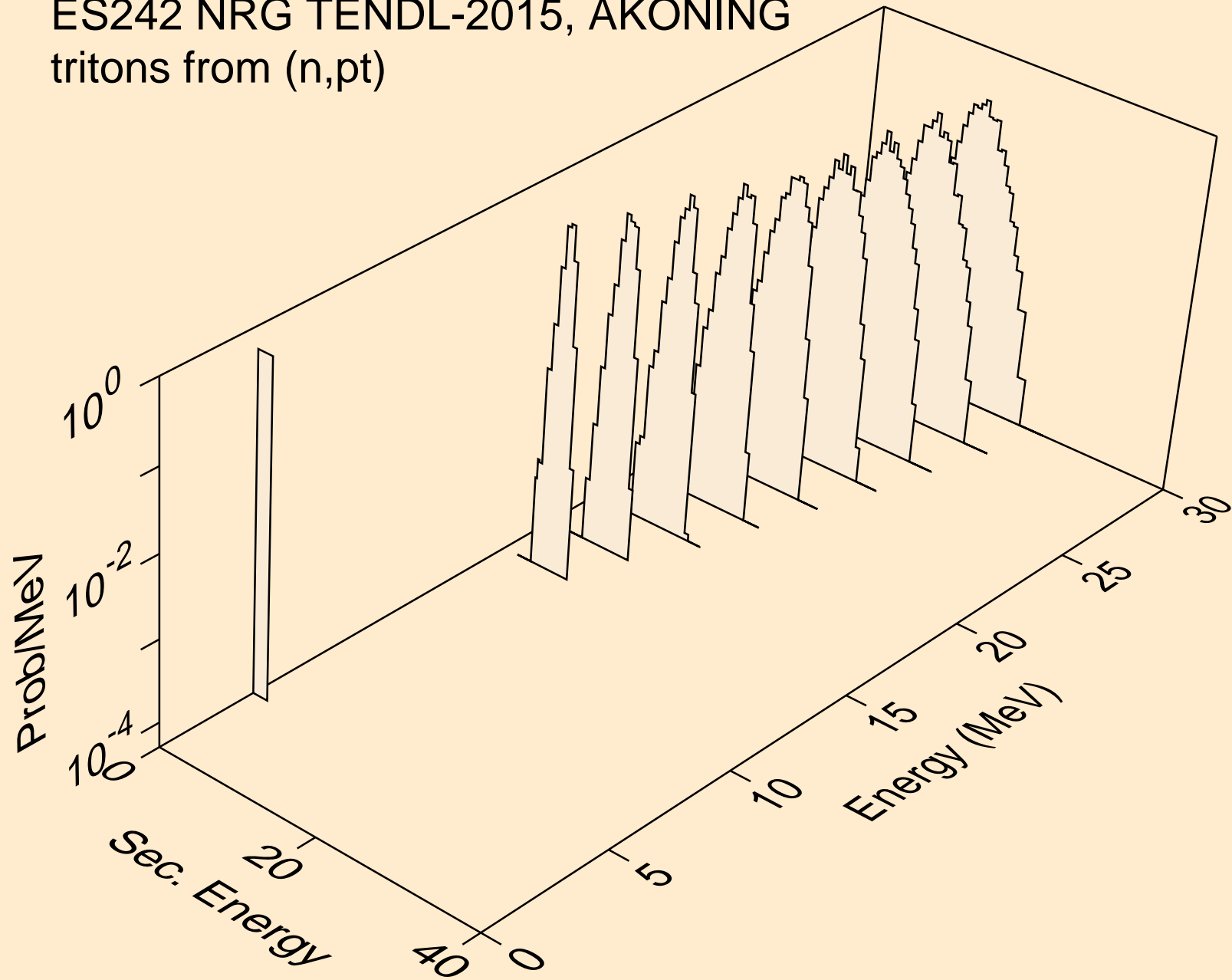




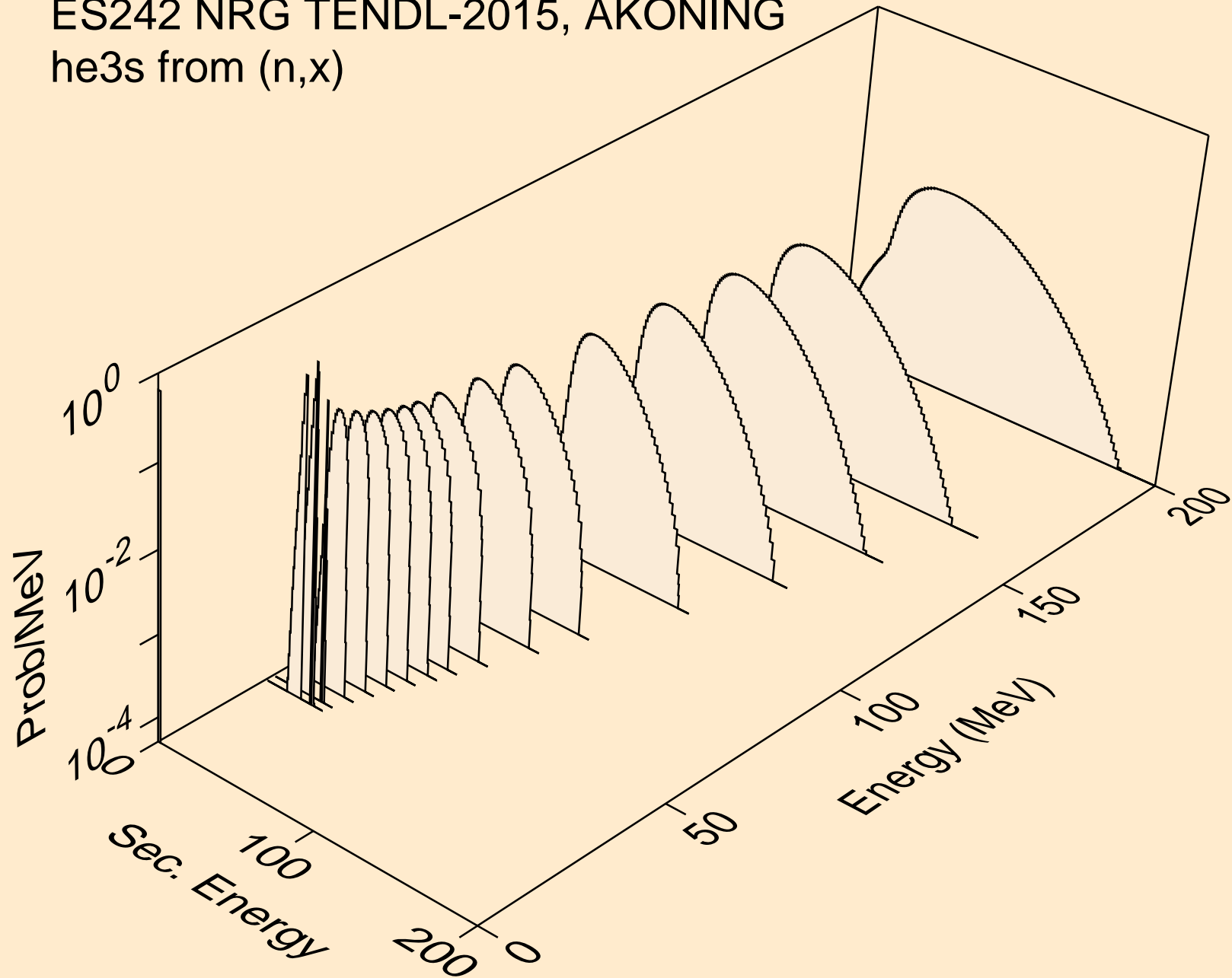
ES242 NRG TENDL-2015, AKONING  
tritons from (n,t2a)



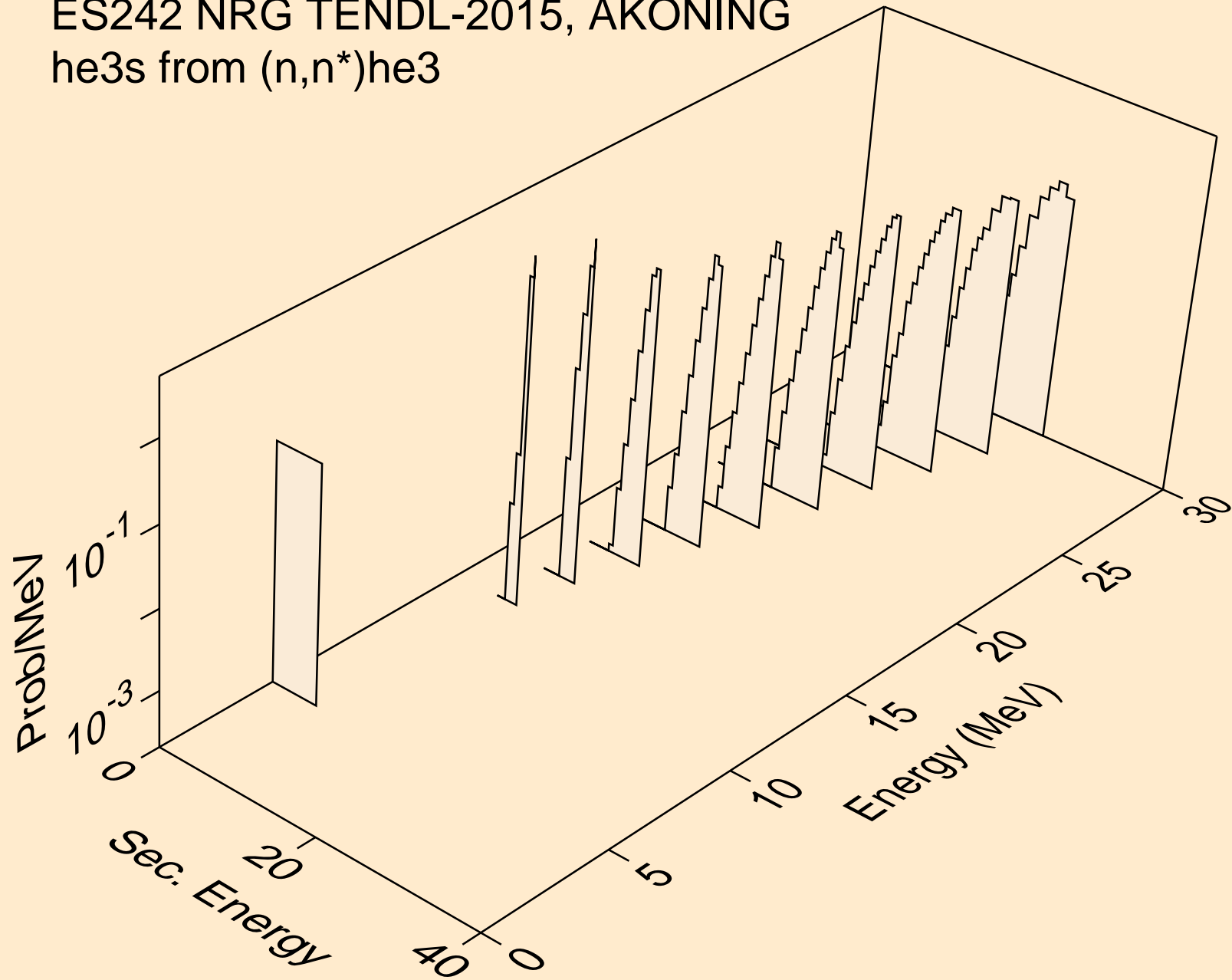
ES242 NRG TENDL-2015, AKONING  
tritons from (n,pt)



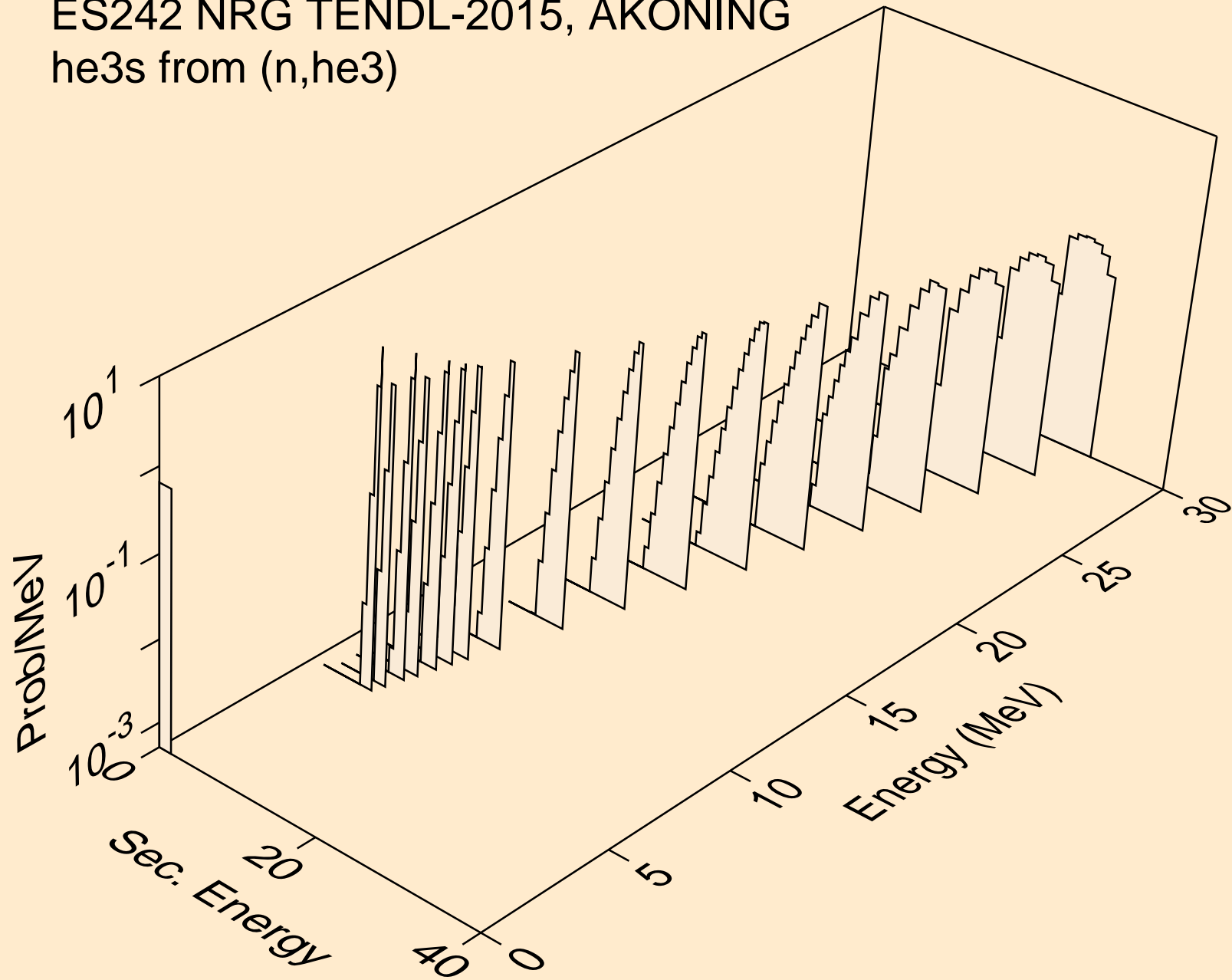
ES242 NRG TENDL-2015, AKONING  
he3s from (n,x)



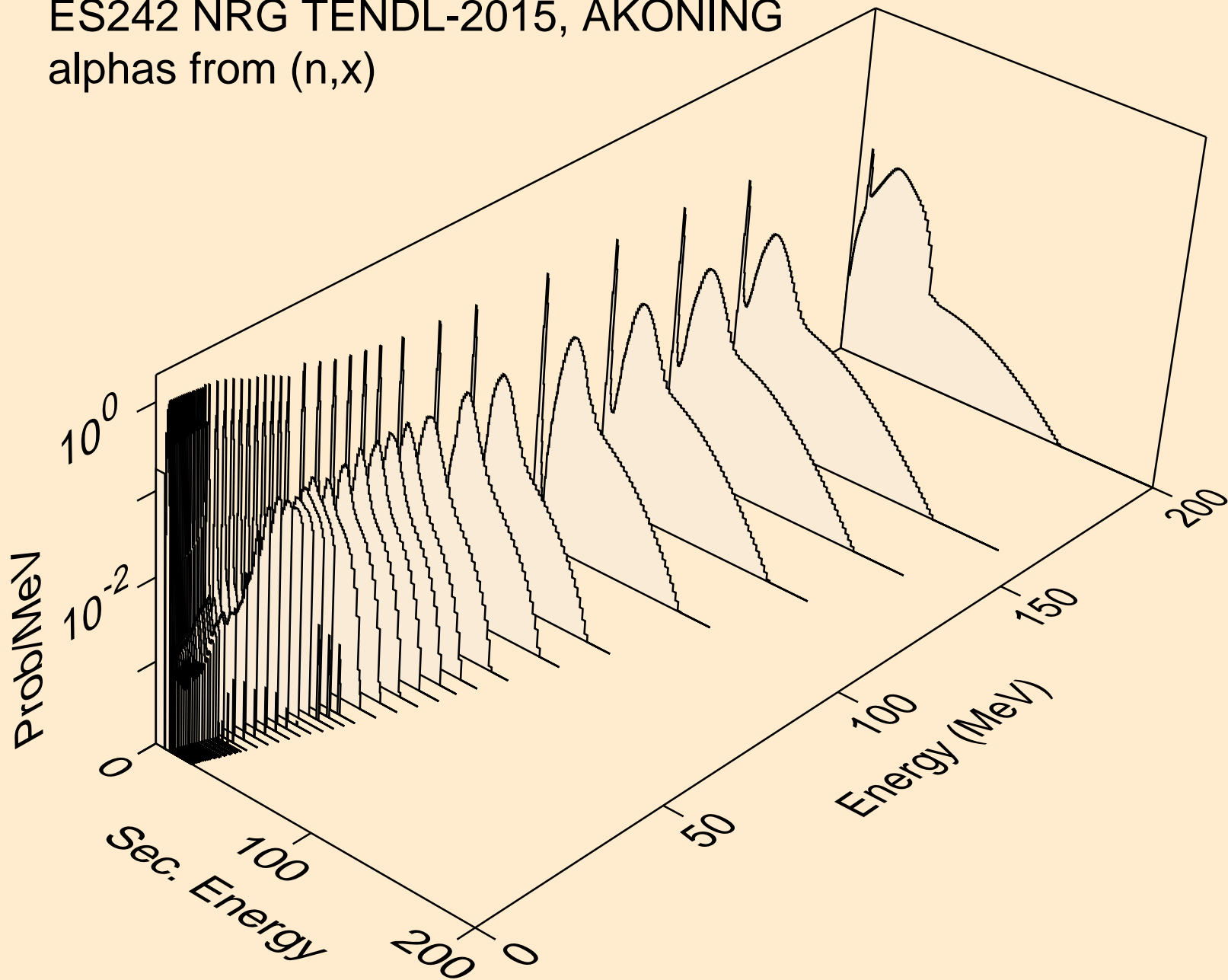
ES242 NRG TENDL-2015, AKONING  
he3s from (n,n\*)he3



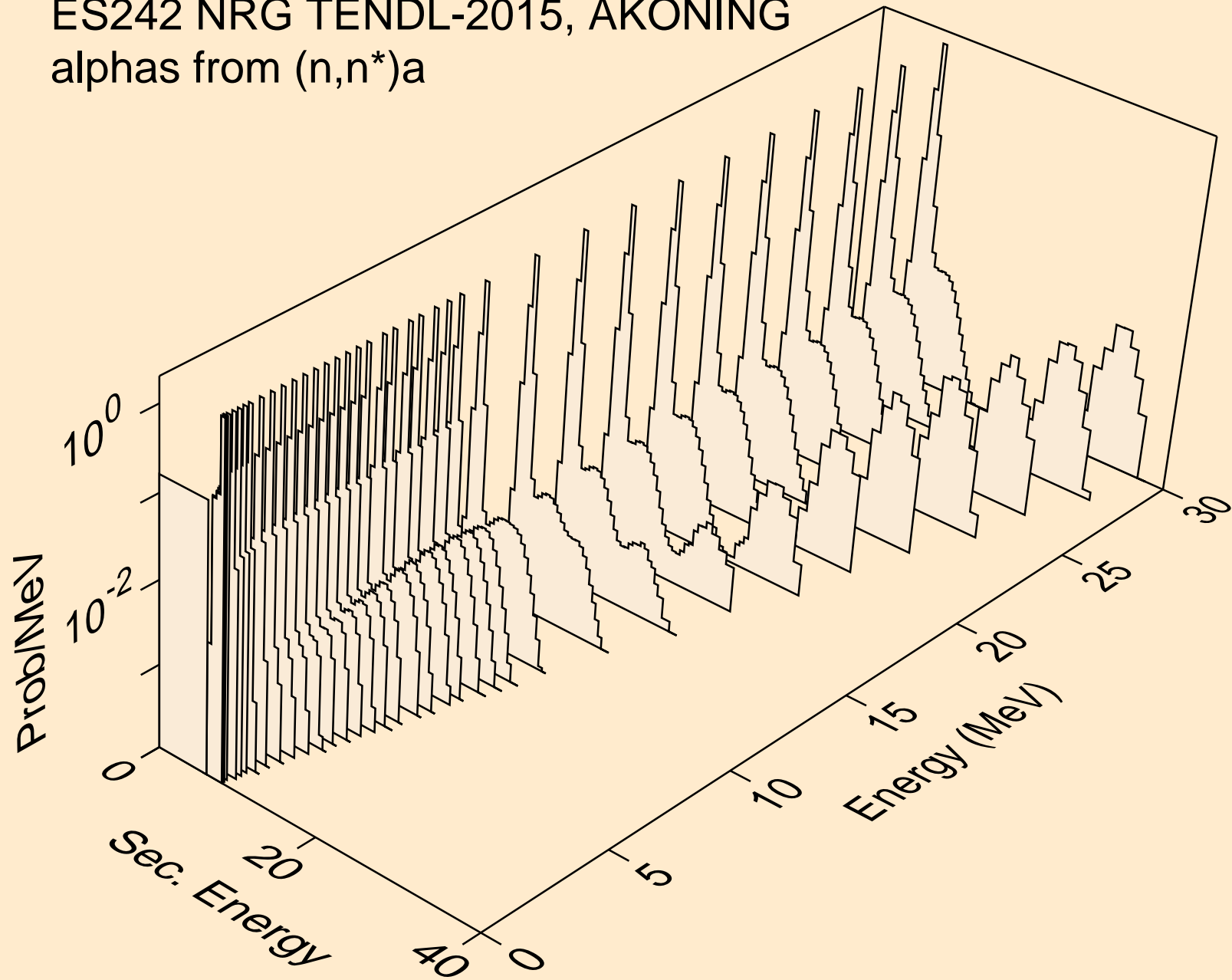
ES242 NRG TENDL-2015, AKONING  
he3s from (n,he3)



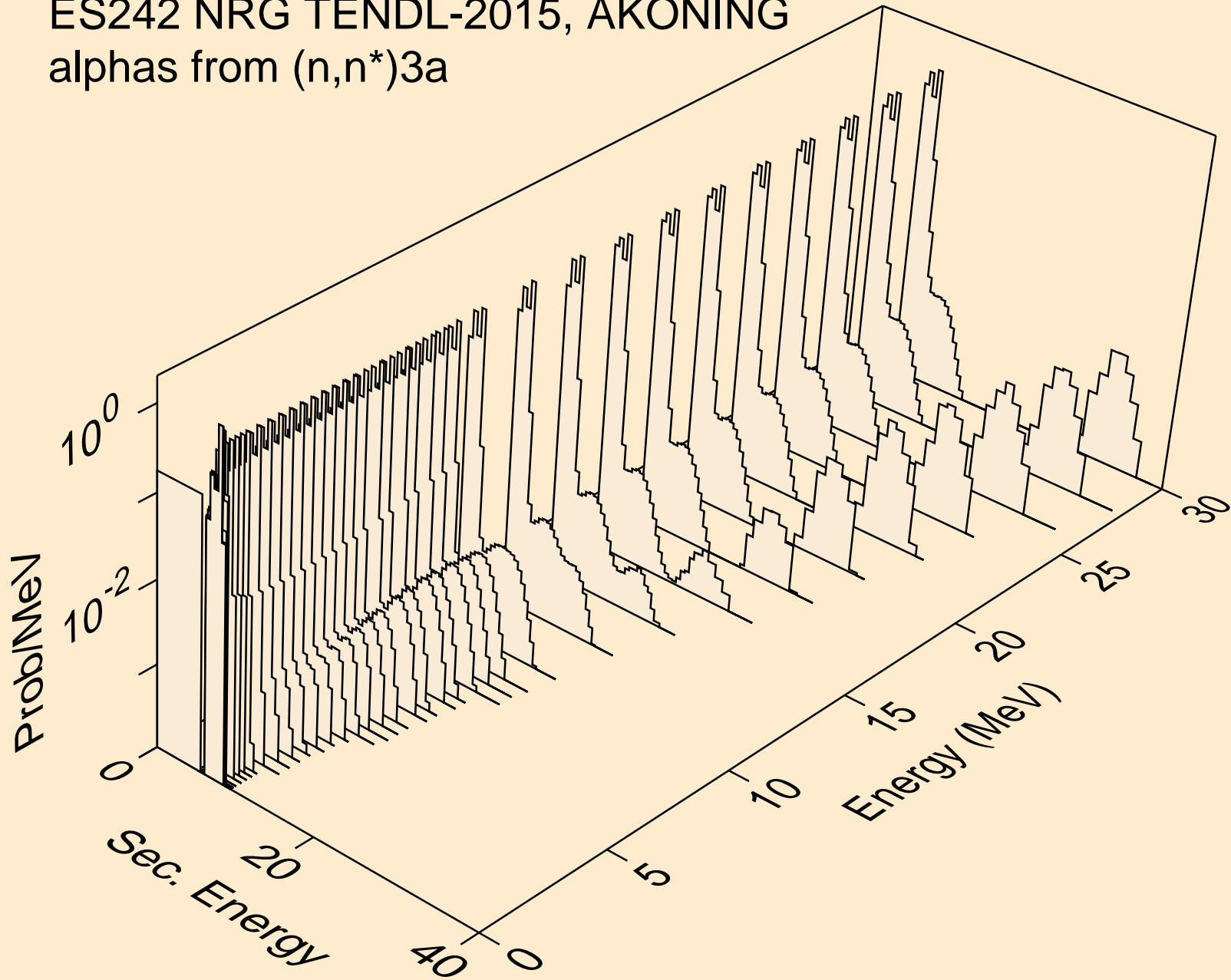
ES242 NRG TENDL-2015, AKONING  
alphas from (n,x)



ES242 NRG TENDL-2015, AKONING  
alphas from (n,n\*)a

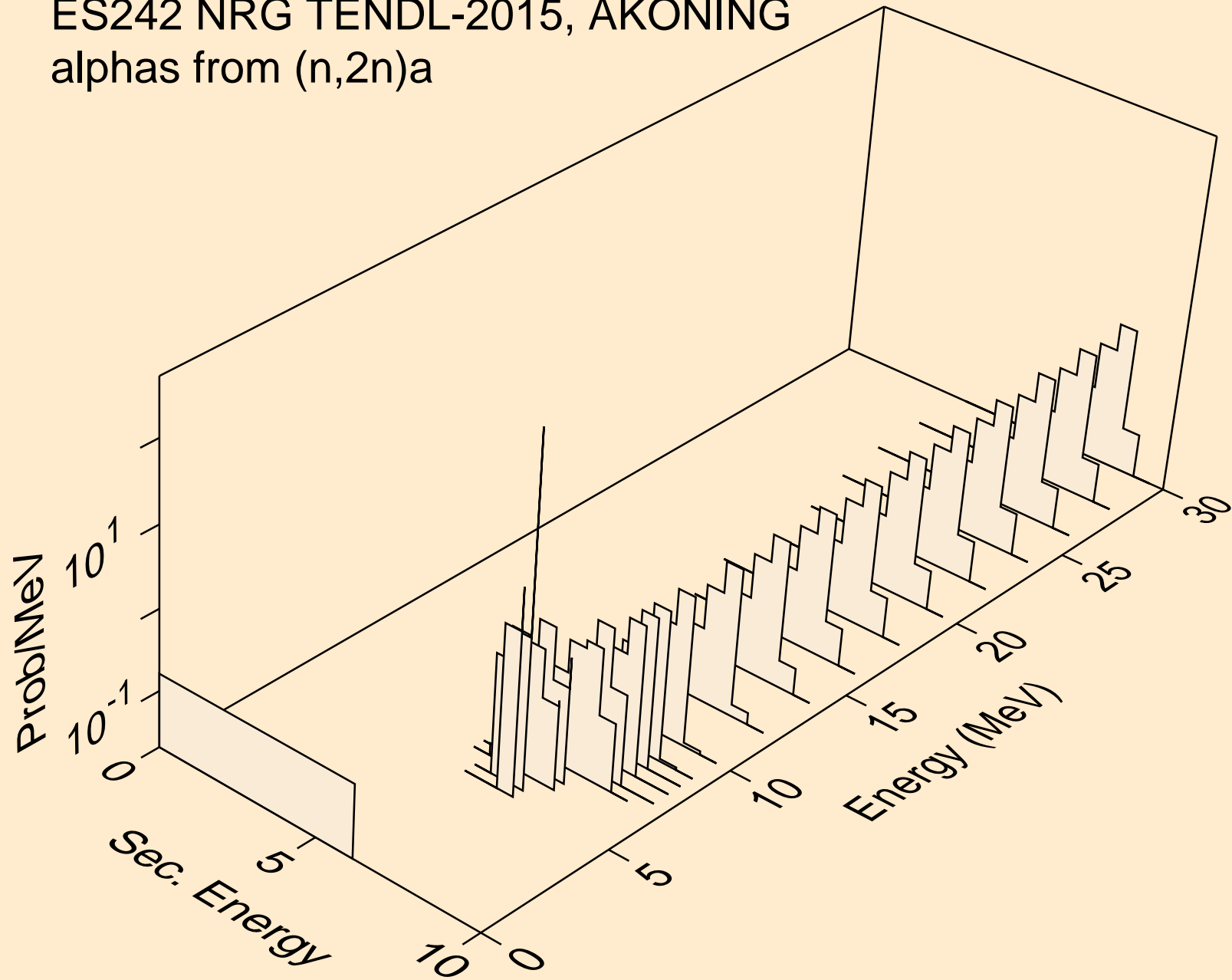


ES242 NRG TENDL-2015, AKONING  
alphas from (n,n\*)3a

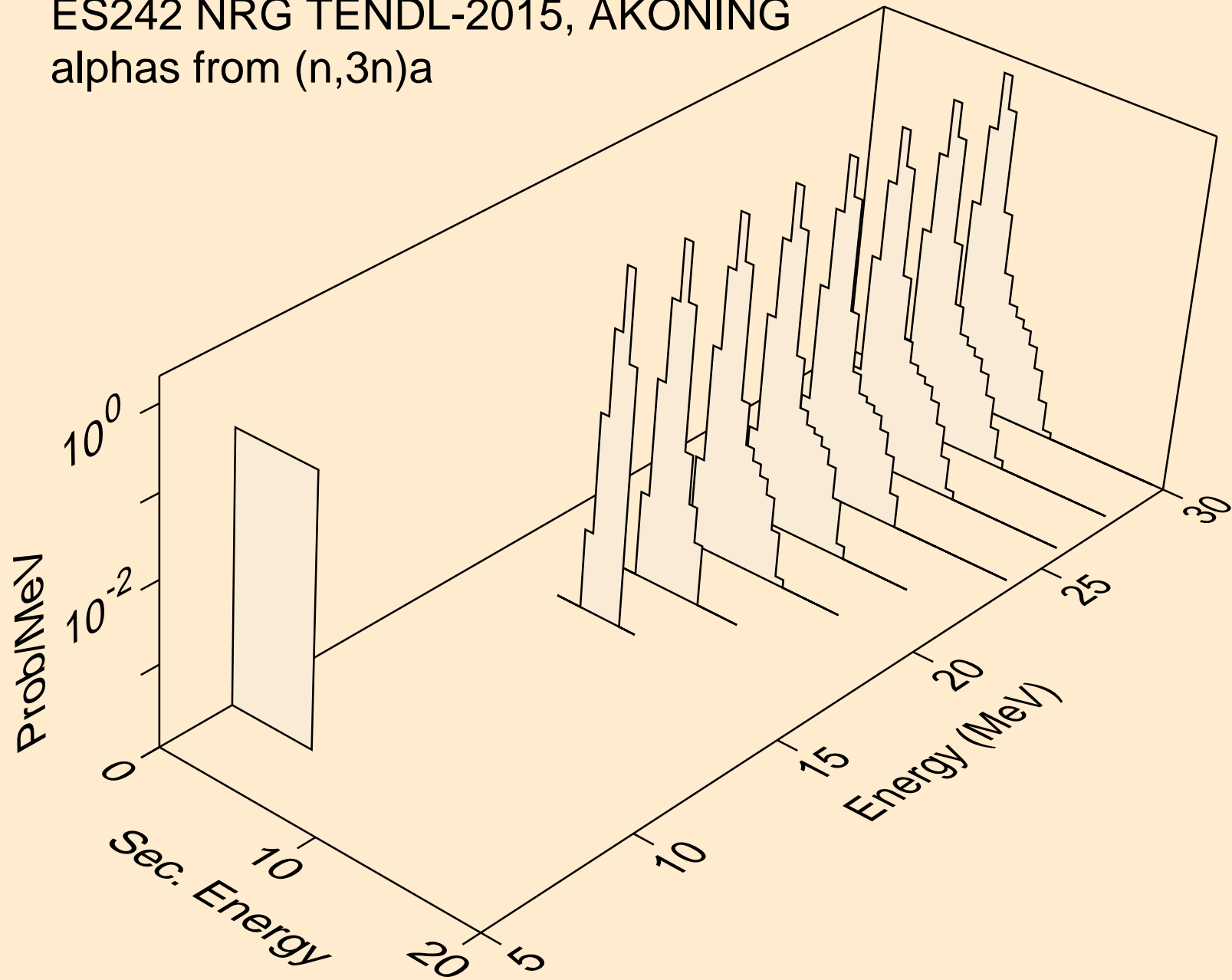




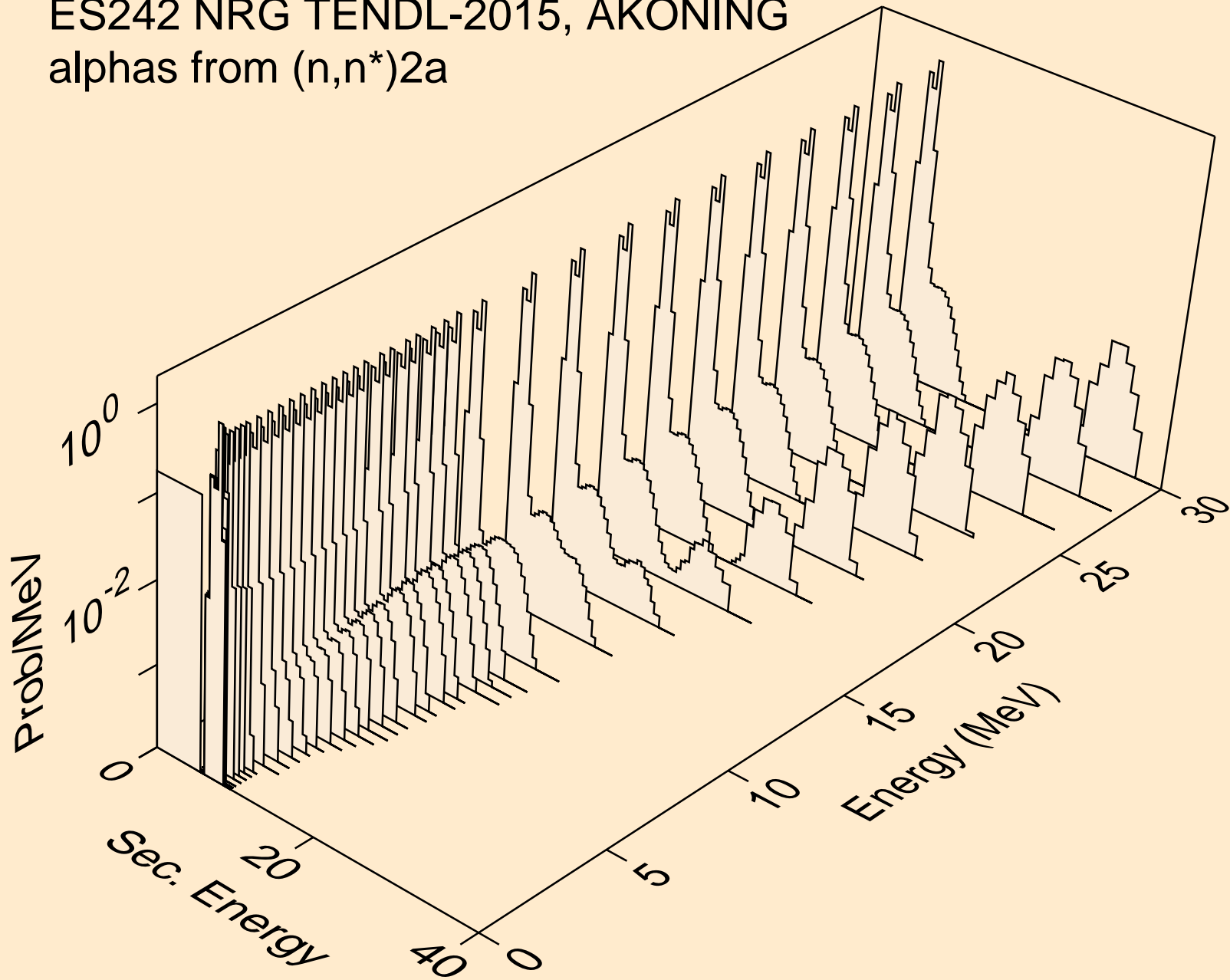
ES242 NRG TENDL-2015, AKONING  
alphas from (n,2n)a



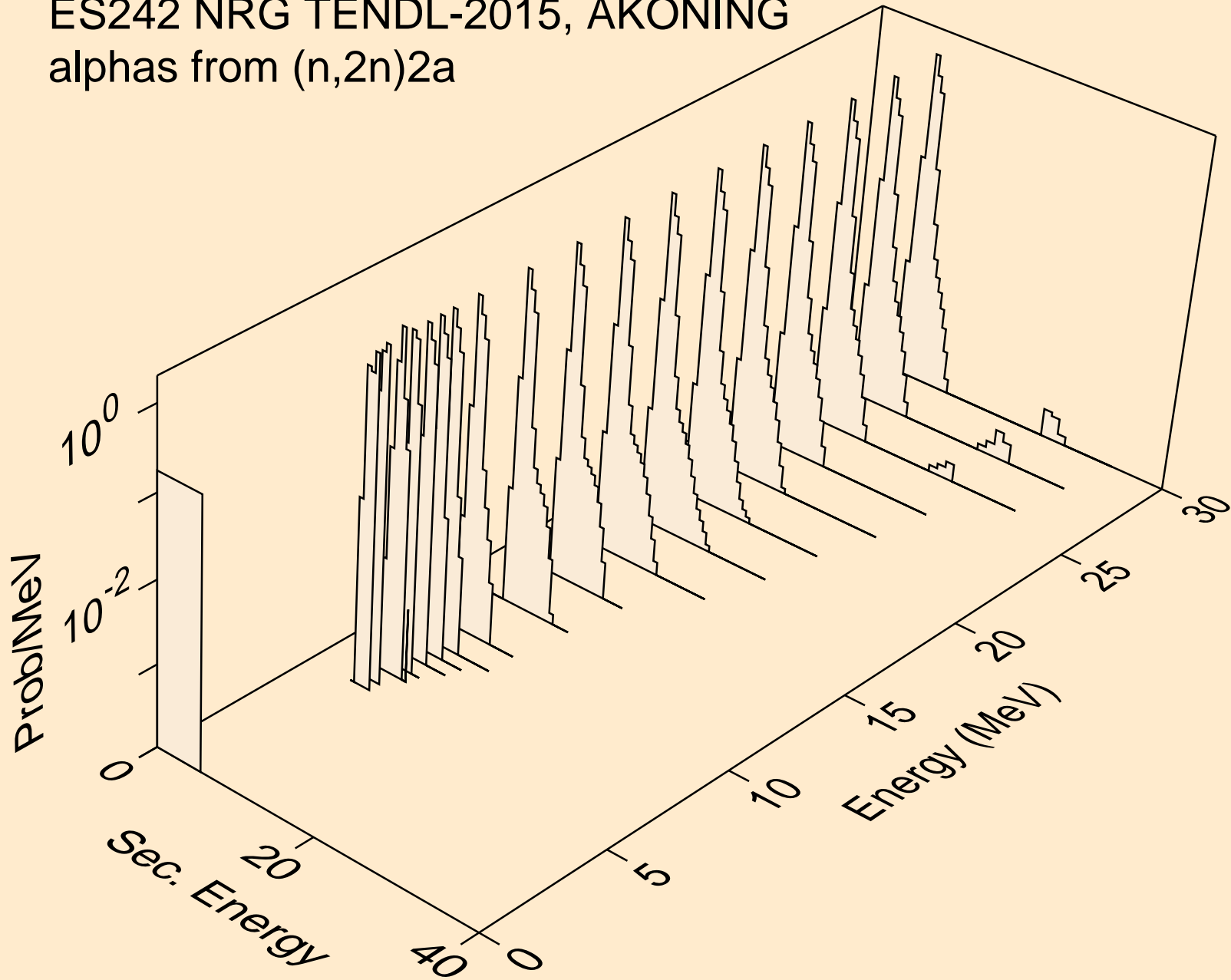
ES242 NRG TENDL-2015, AKONING  
alphas from (n,3n)a



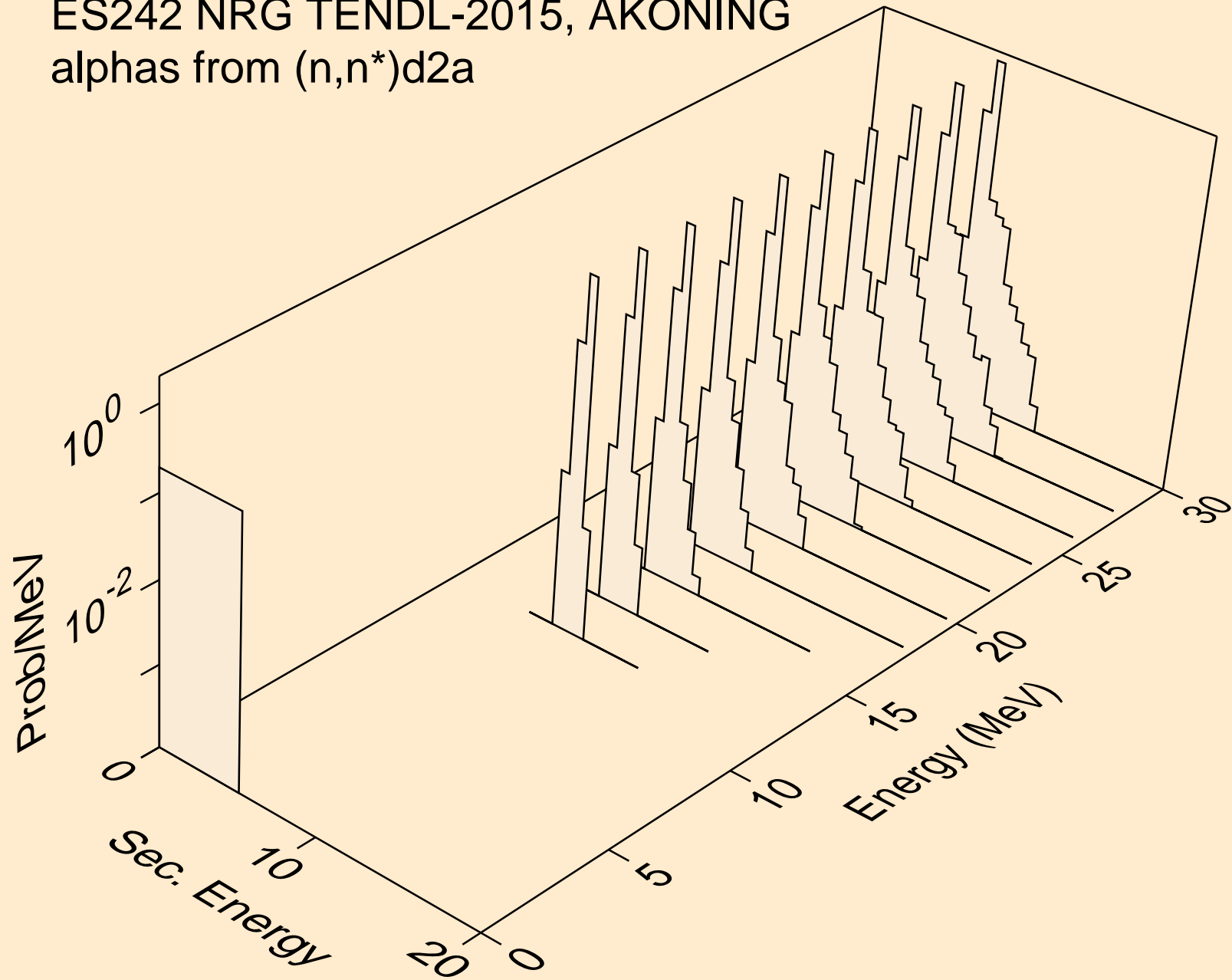
ES242 NRG TENDL-2015, AKONING  
alphas from (n,n\*)2a



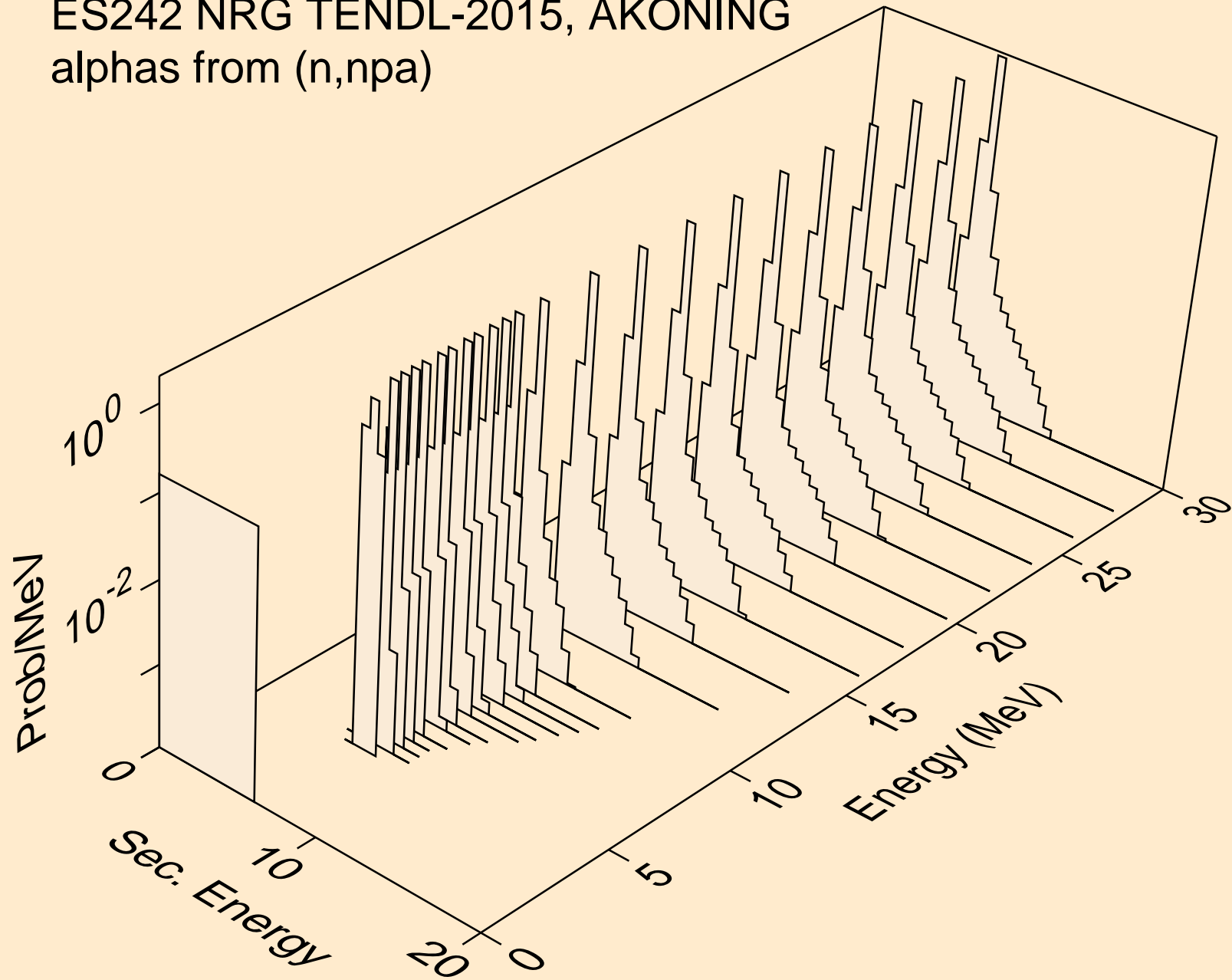
ES242 NRG TENDL-2015, AKONING  
alphas from (n,2n)2a



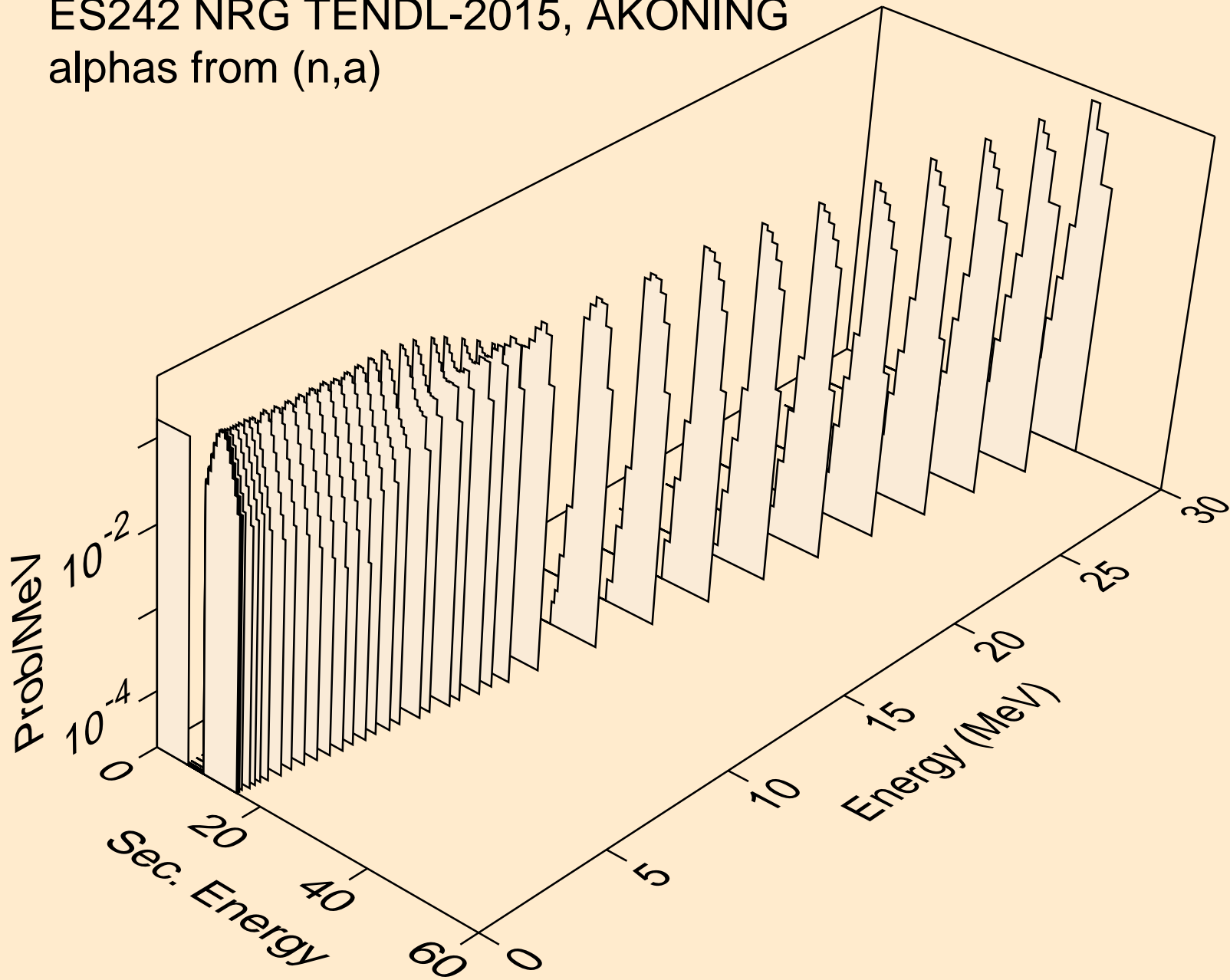
ES242 NRG TENDL-2015, AKONING  
alphas from (n,n\*)d2a



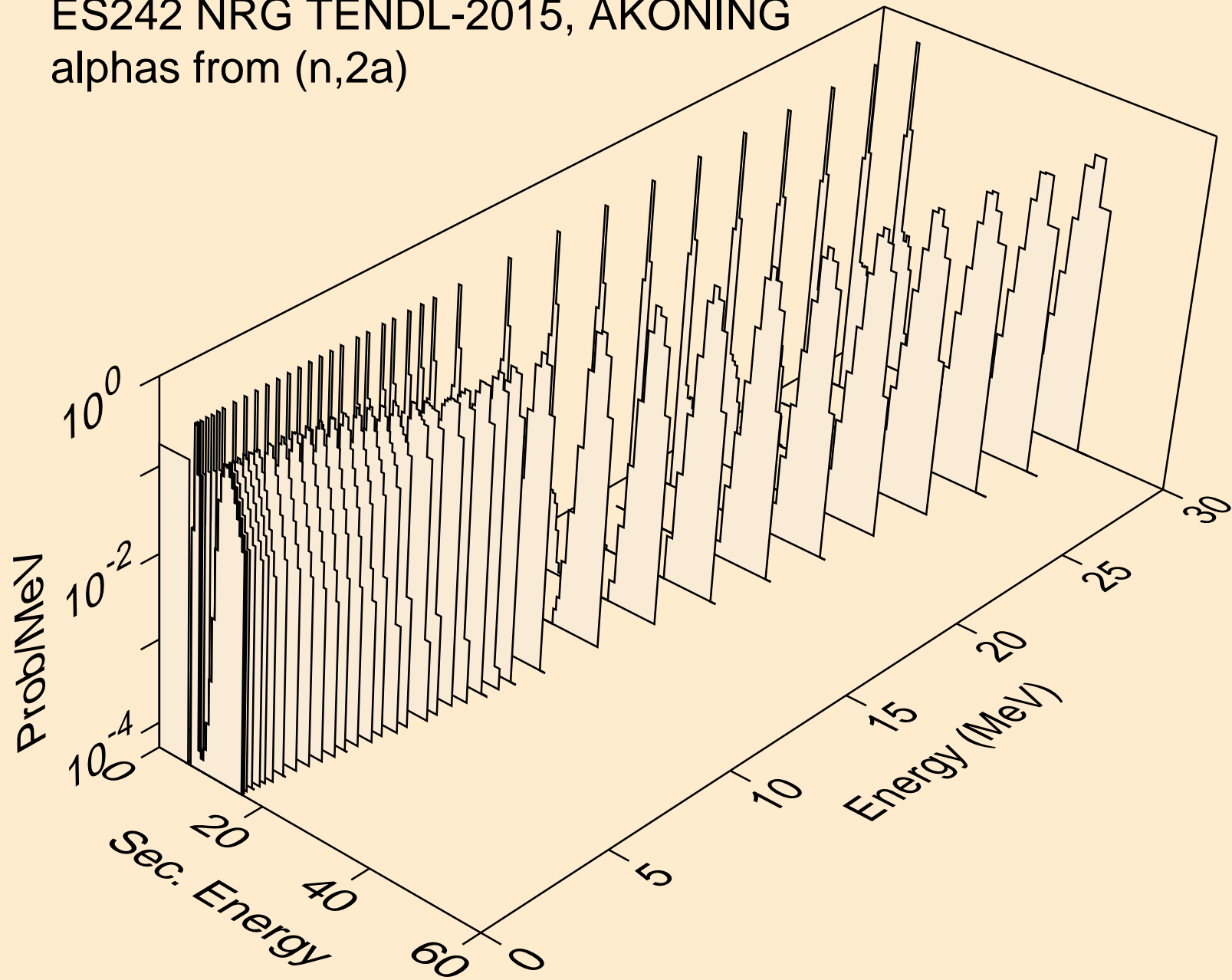
ES242 NRG TENDL-2015, AKONING  
alphas from (n,npa)



ES242 NRG TENDL-2015, AKONING  
alphas from (n,a)

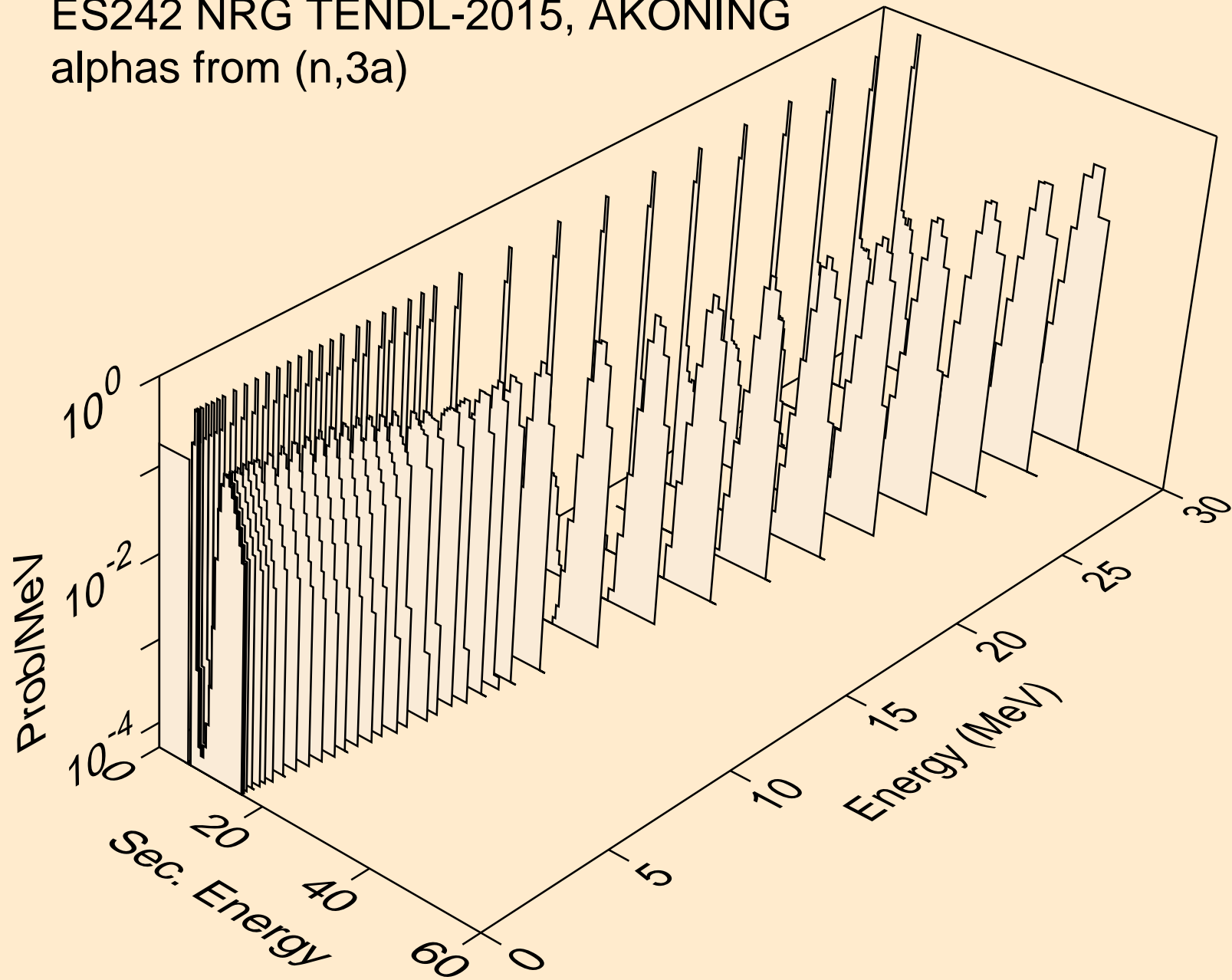


ES242 NRG TENDL-2015, AKONING  
alphas from (n,2a)

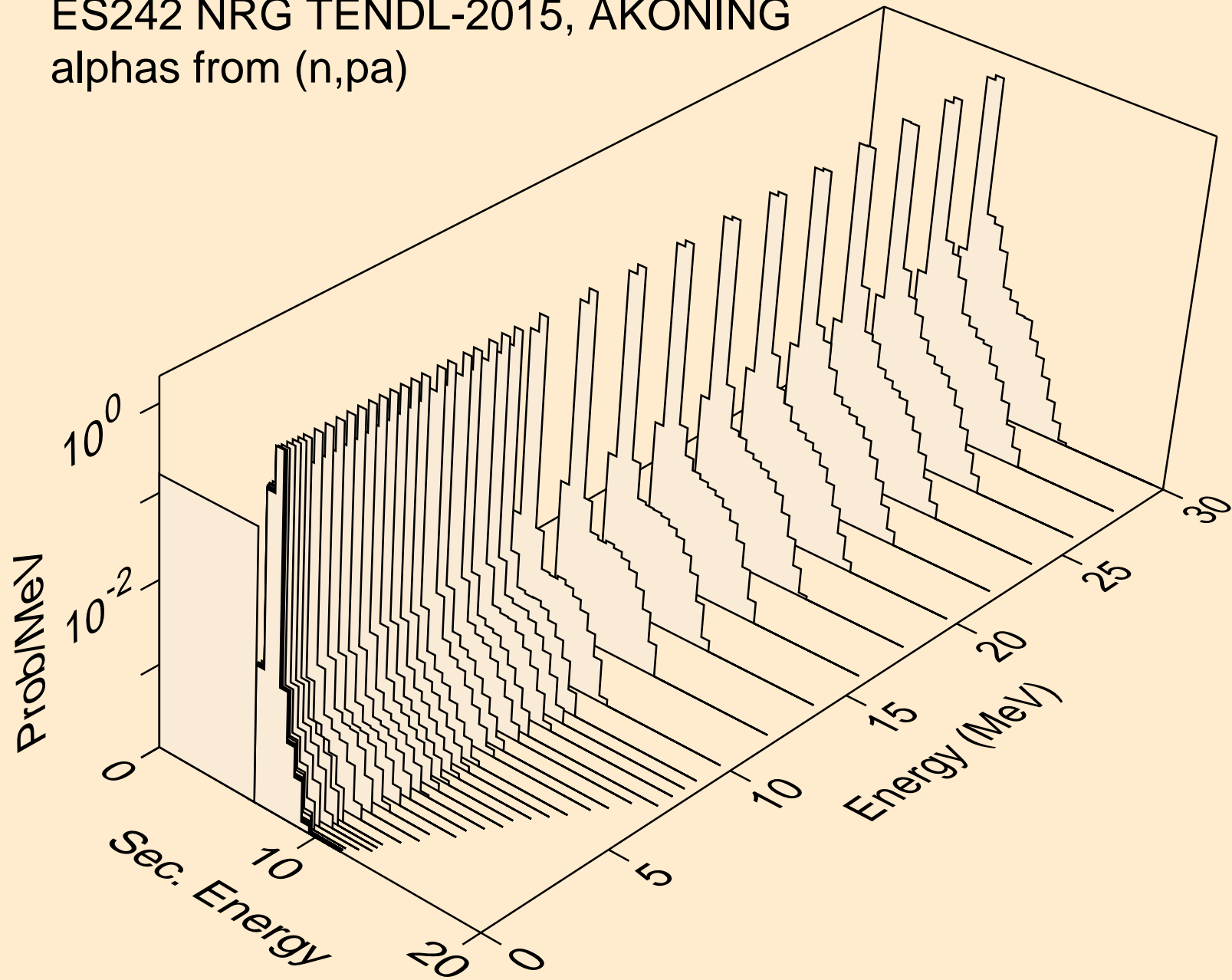




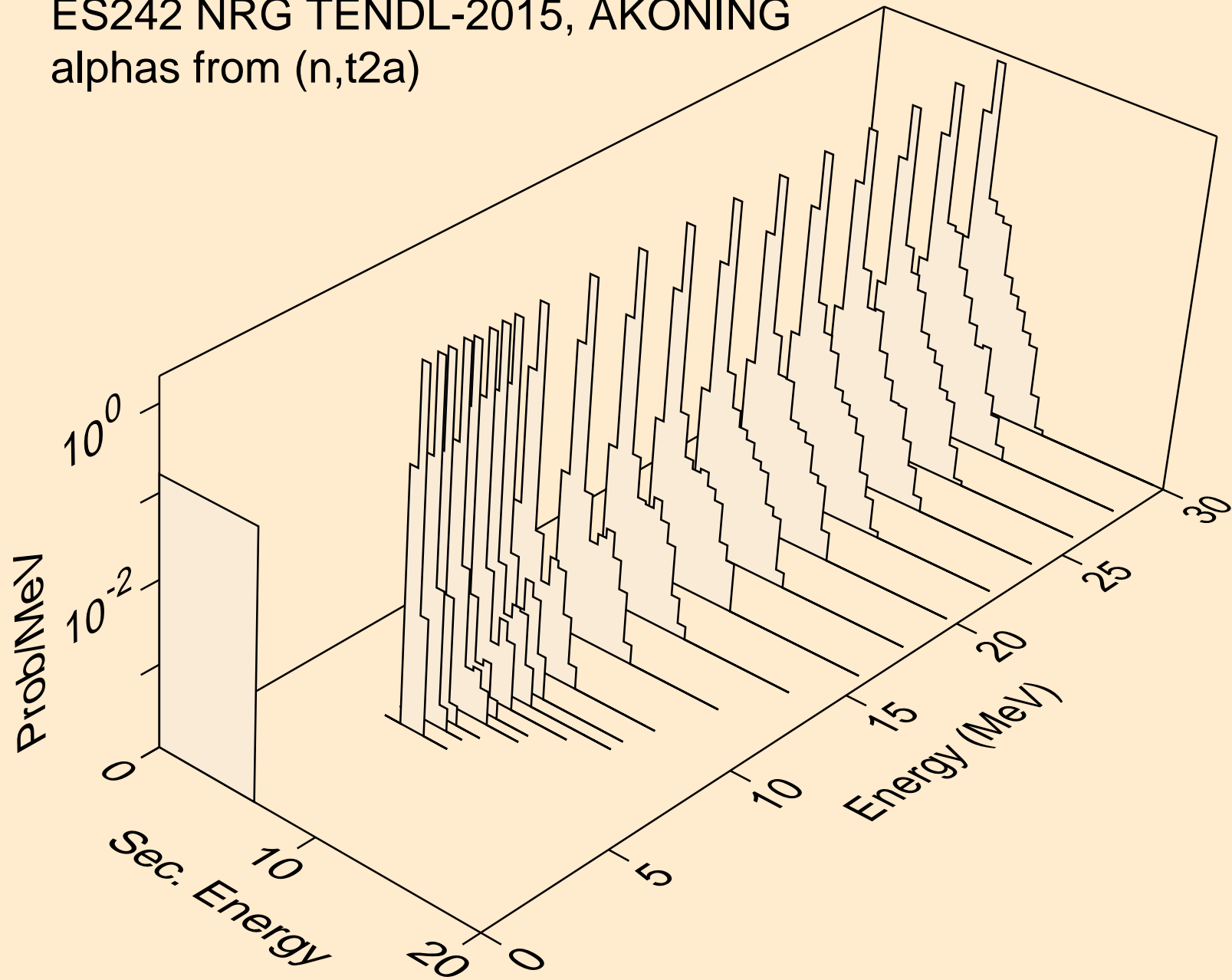
ES242 NRG TENDL-2015, AKONING  
alphas from (n,3a)



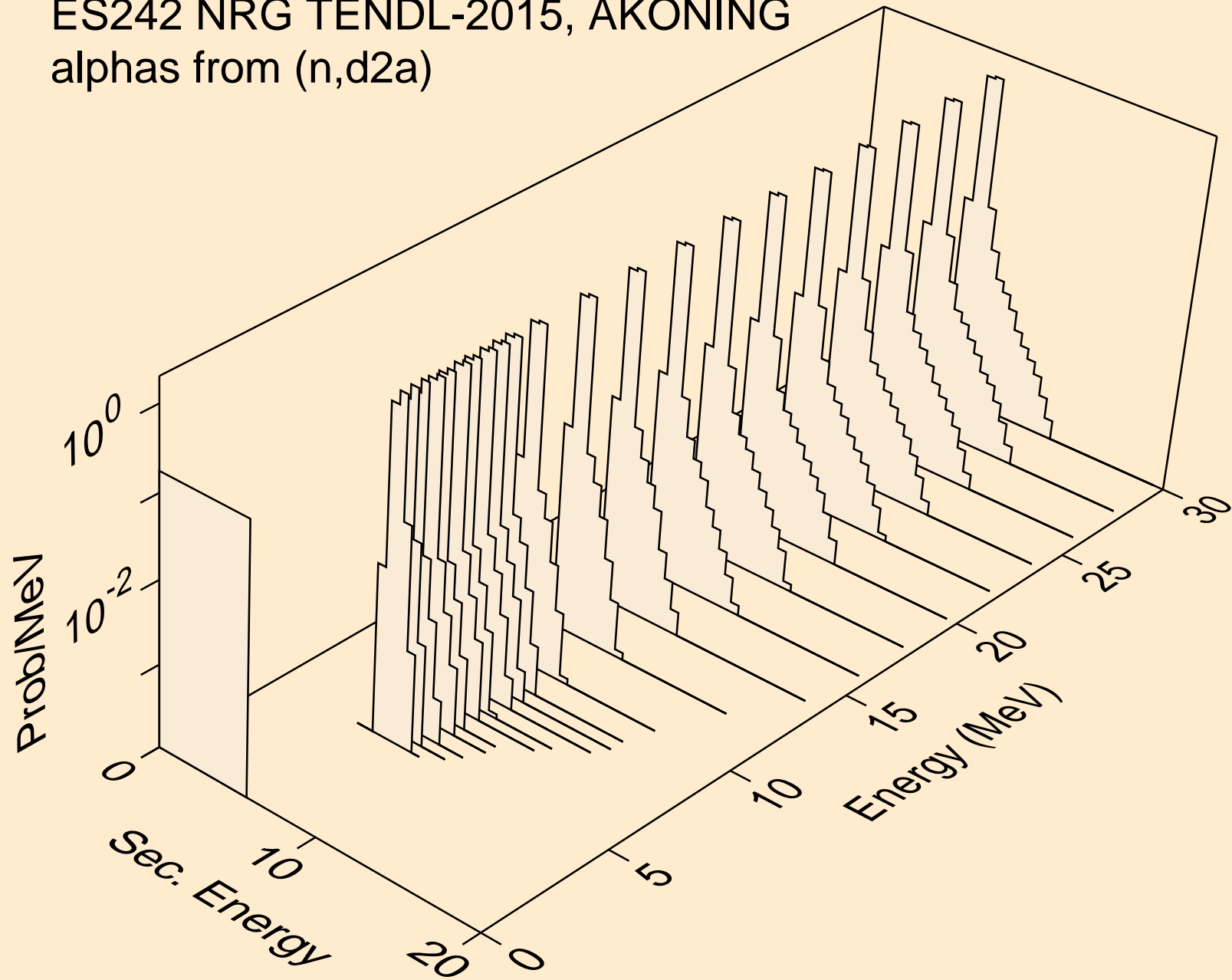
ES242 NRG TENDL-2015, AKONING  
alphas from (n,pa)



ES242 NRG TENDL-2015, AKONING  
alphas from (n,t2a)



ES242 NRG TENDL-2015, AKONING  
alphas from (n,d2a)



ES242 NRG TENDL-2015, AKONING  
alphas from (n,da)

