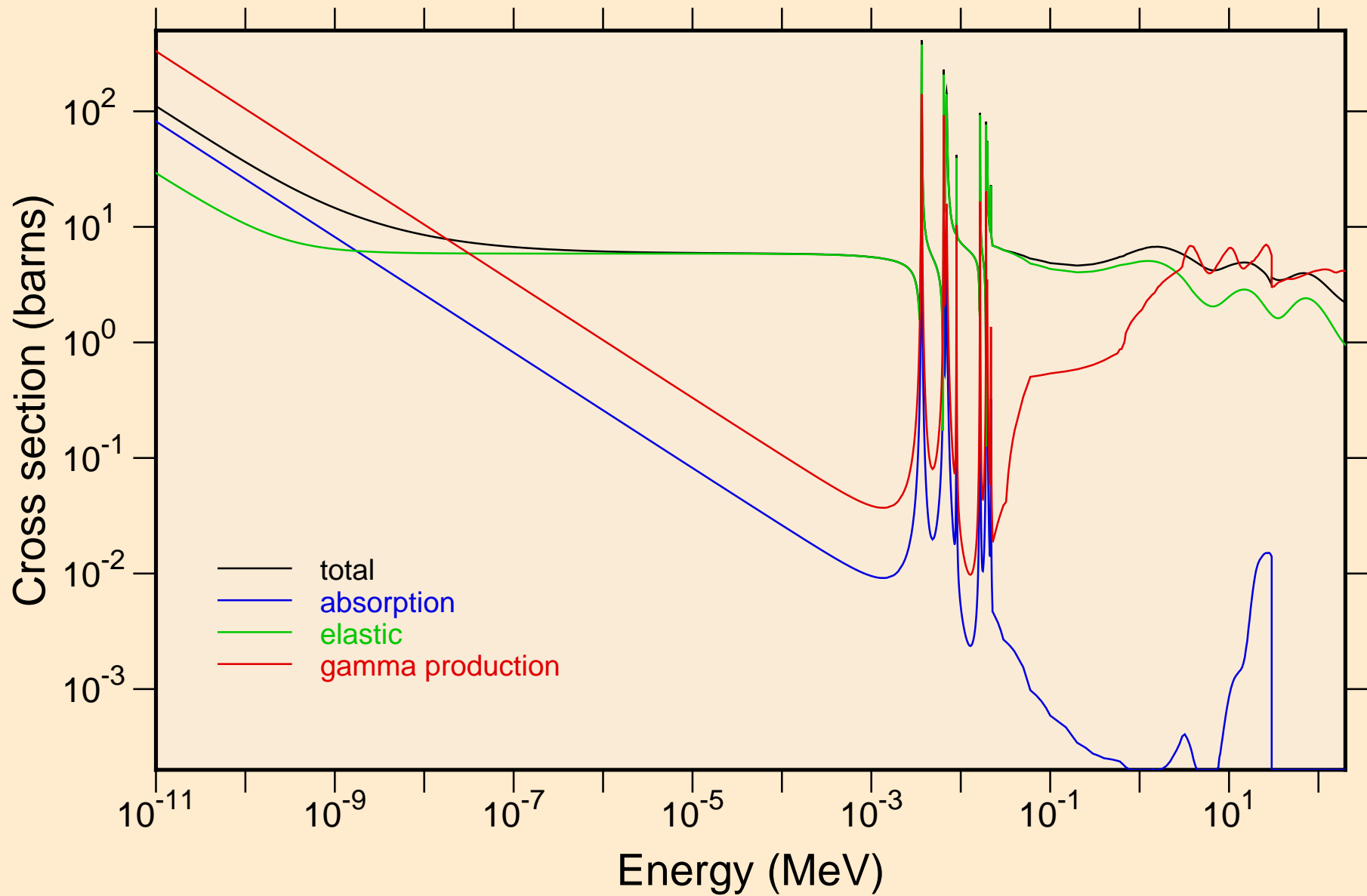


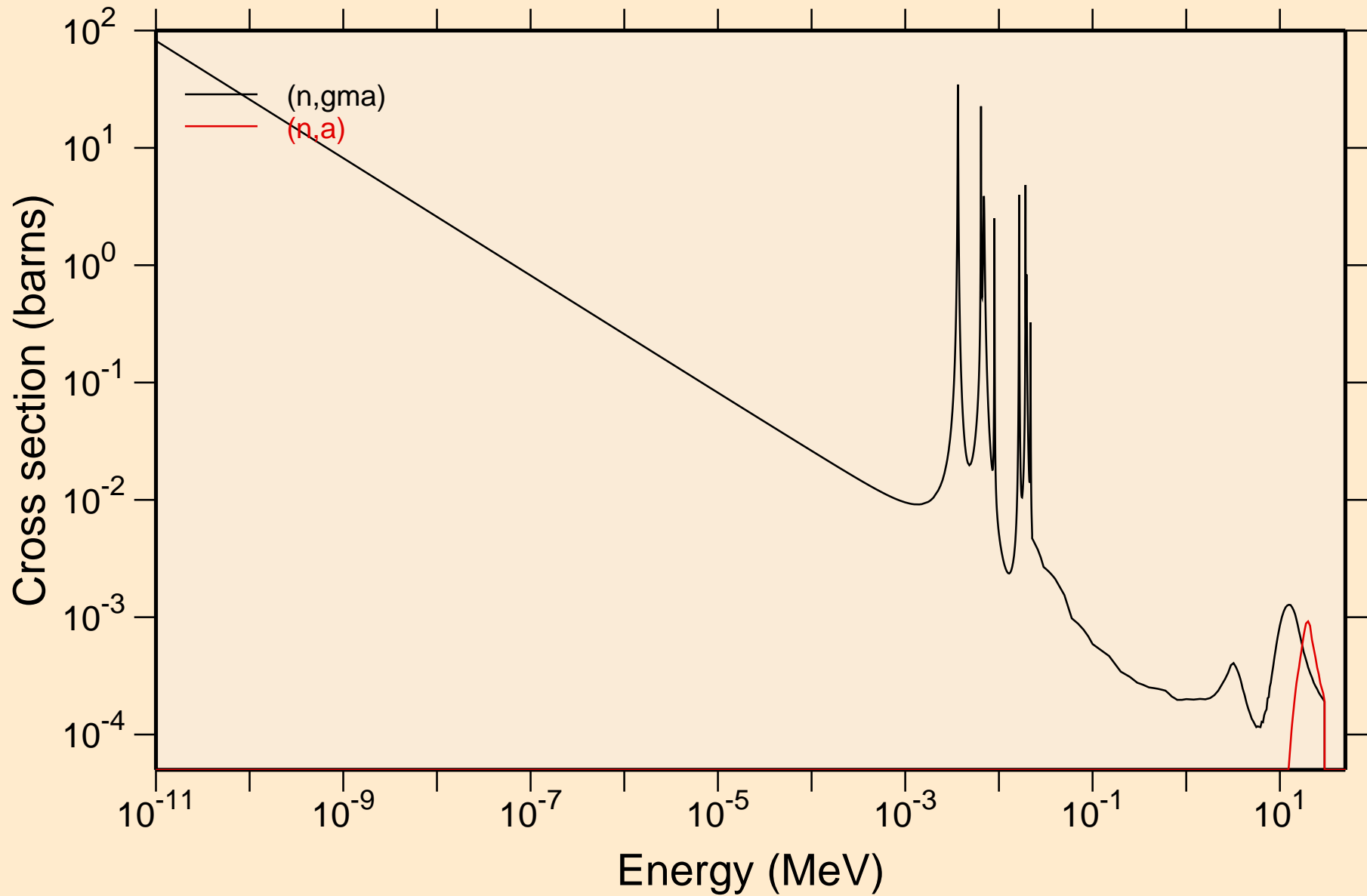
# XE139 NRG TENDL-2015, AKONING

## Principal cross sections



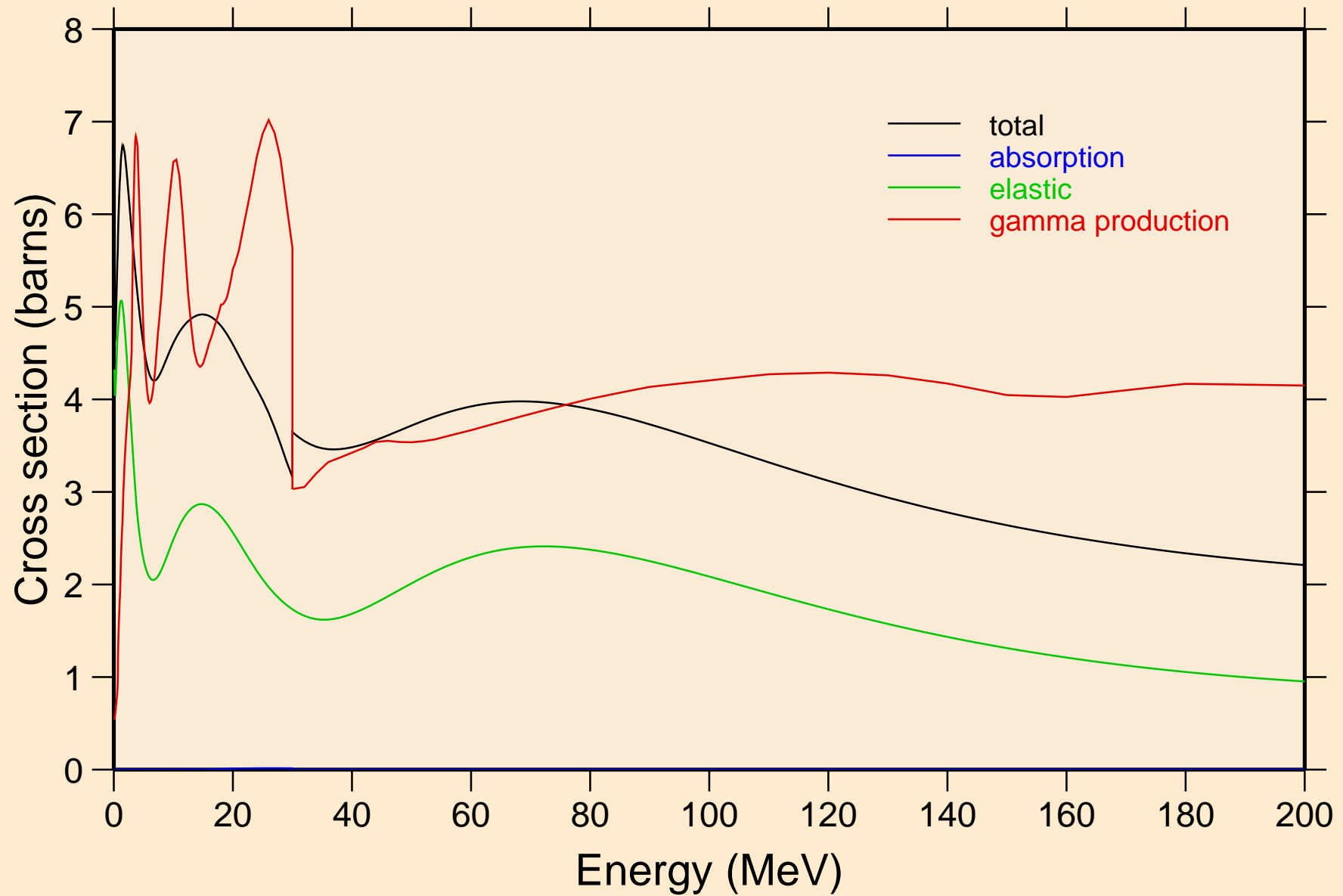
# XE139 NRG TENDL-2015, AKONING

## Non-threshold reactions

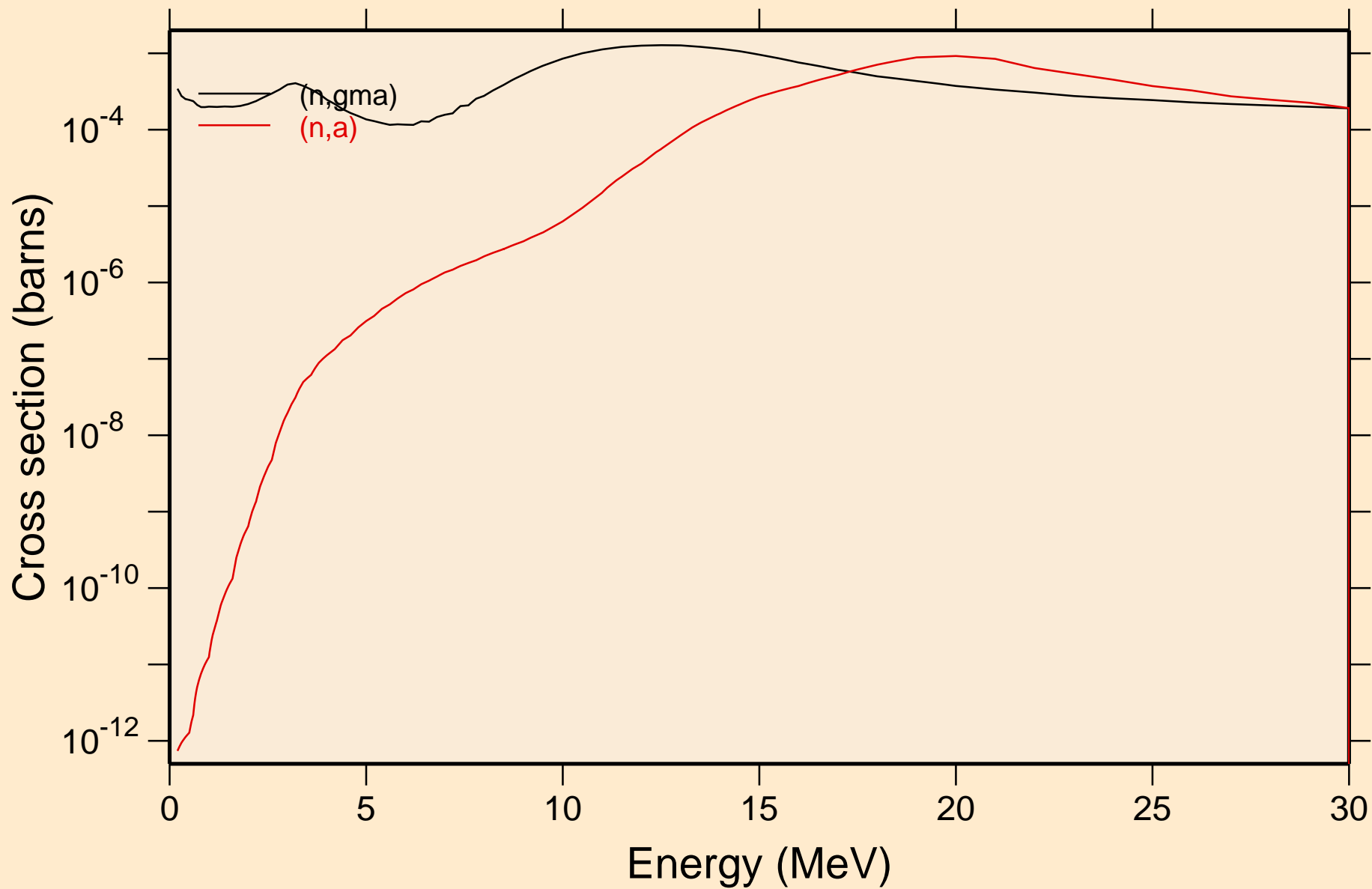


# XE139 NRG TENDL-2015, AKONING

## Principal cross sections

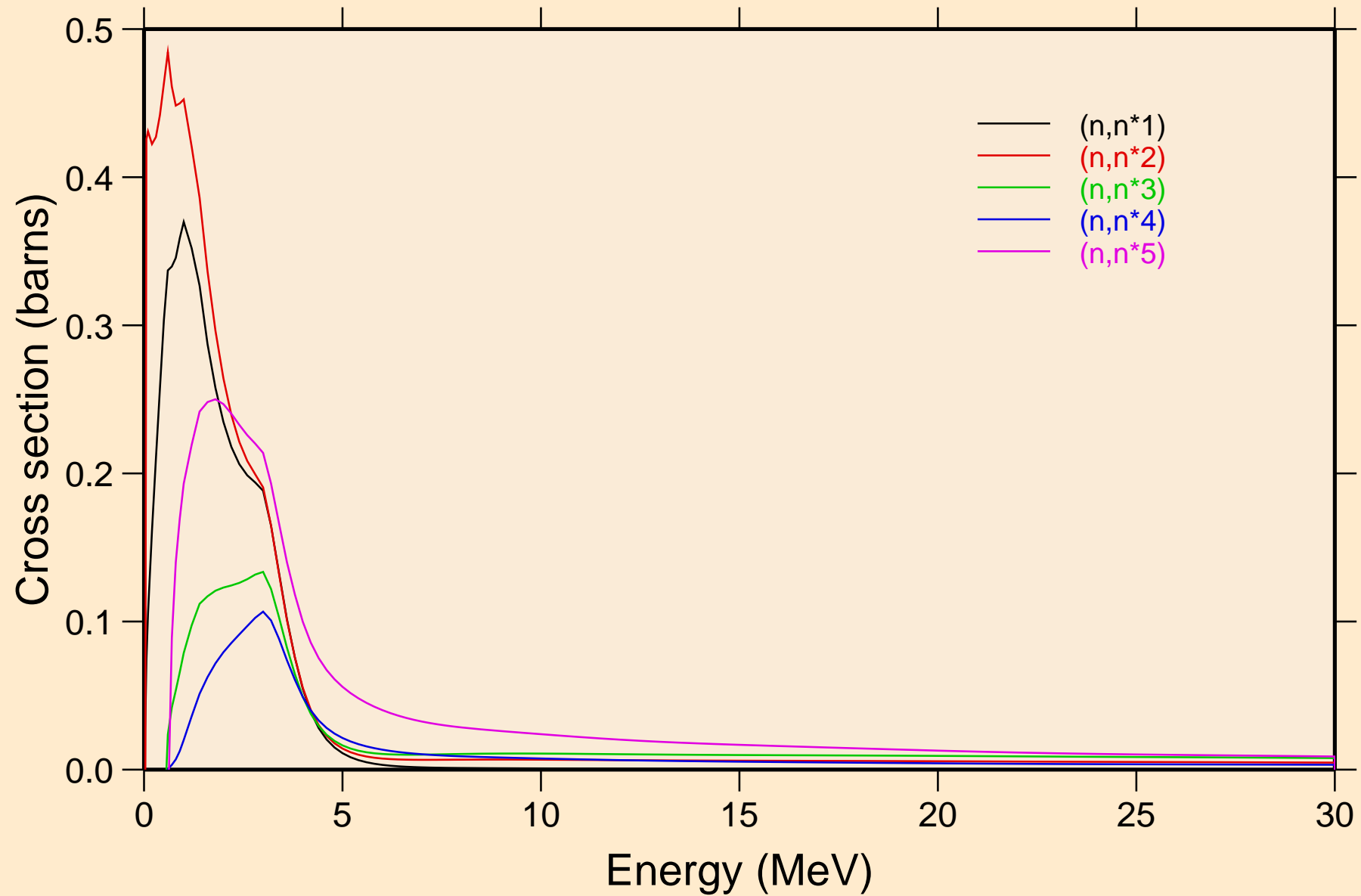


XE139 NRG TENDL-2015, AKONING  
Non-threshold reactions



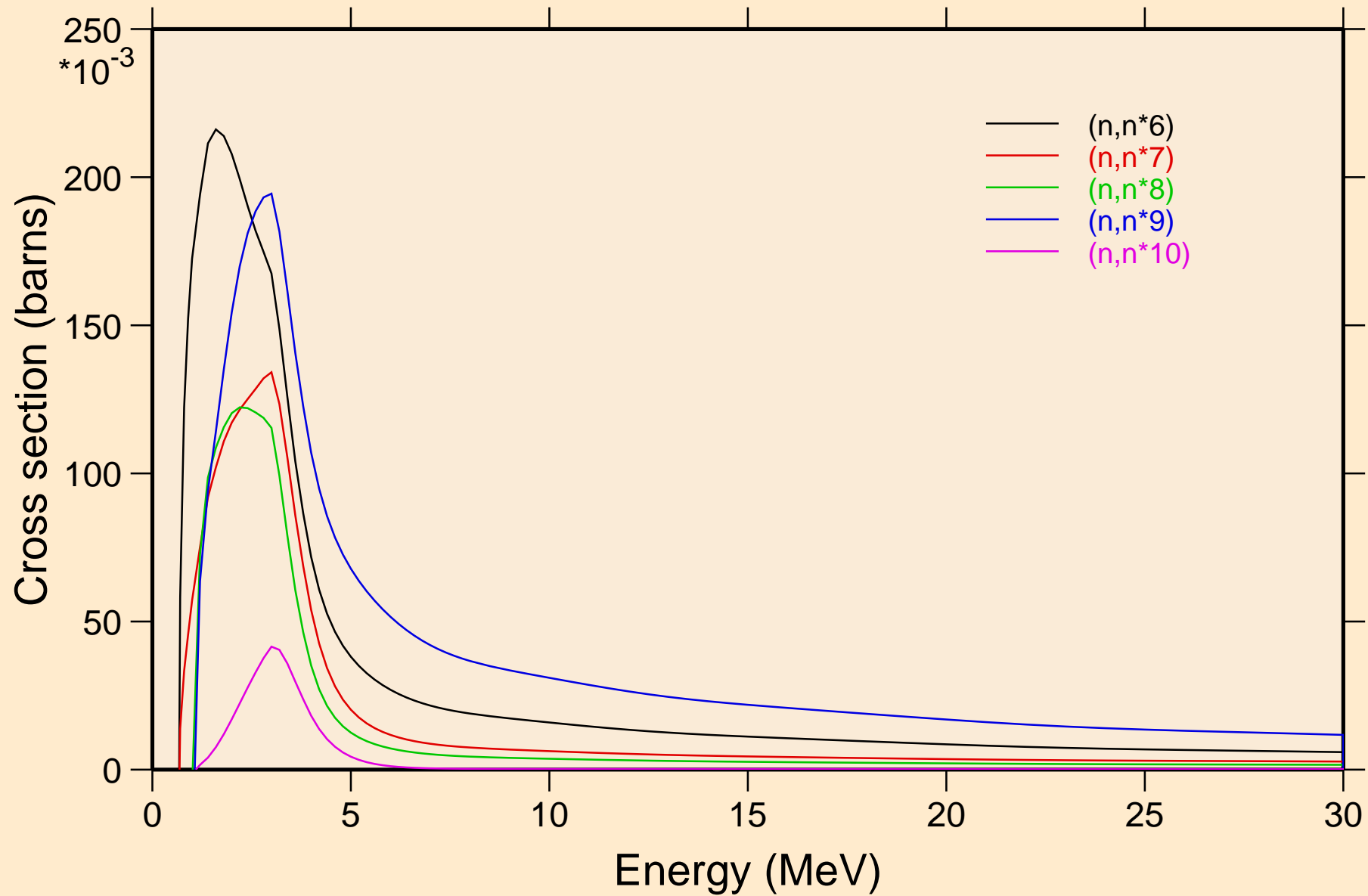
# XE139 NRG TENDL-2015, AKONING

## Inelastic levels



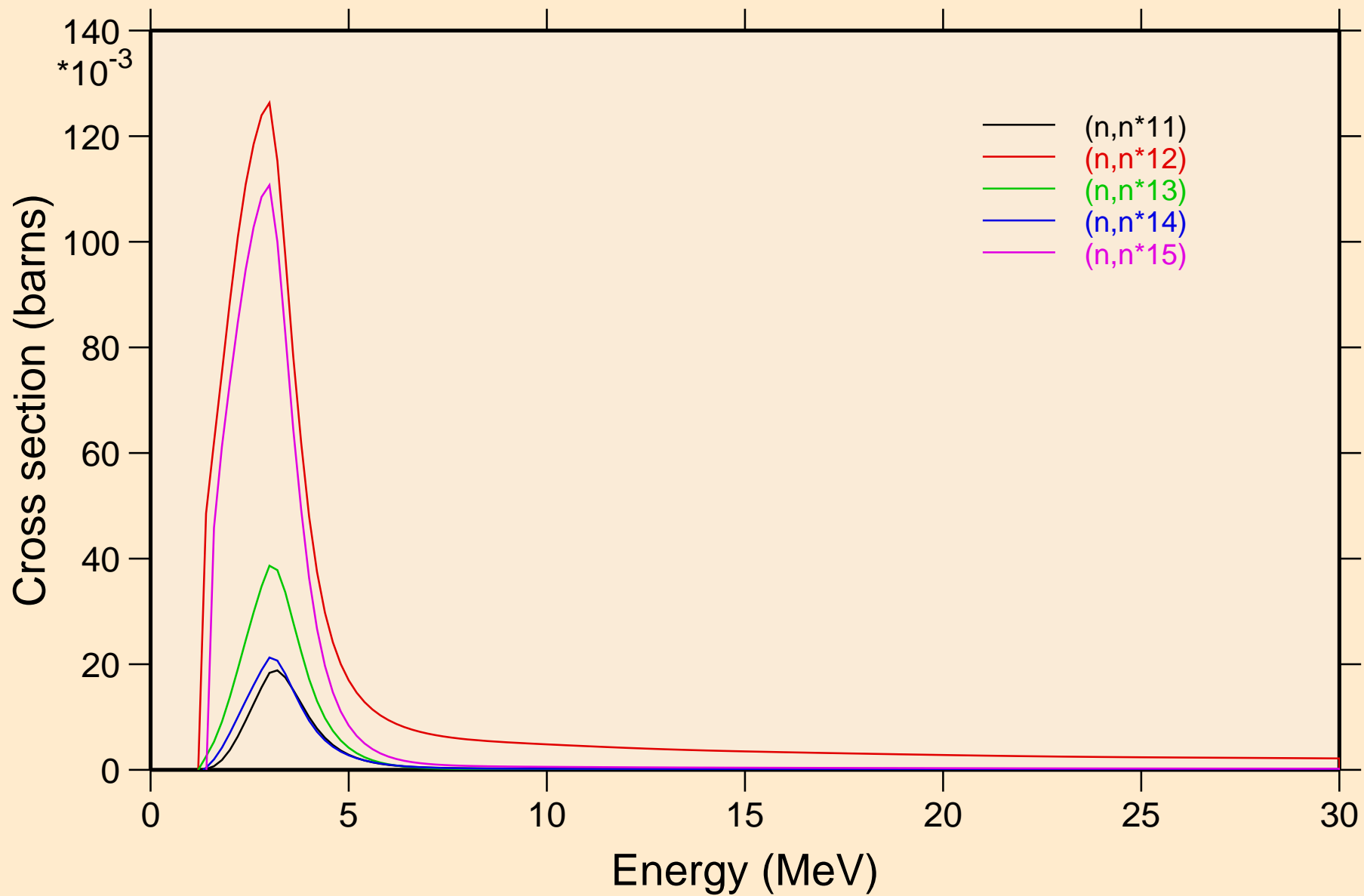
# XE139 NRG TENDL-2015, AKONING

## Inelastic levels



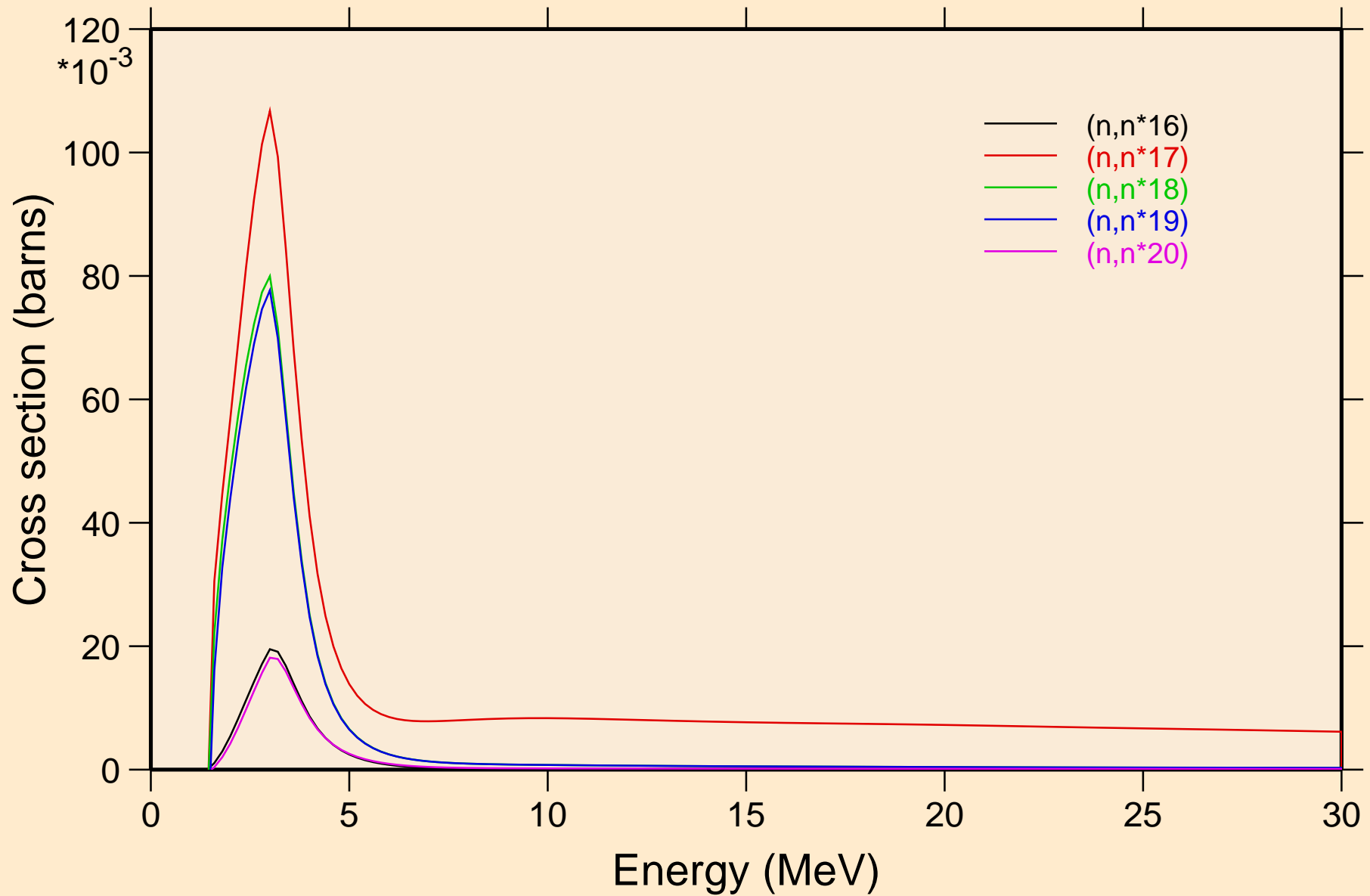
# XE139 NRG TENDL-2015, AKONING

## Inelastic levels



# XE139 NRG TENDL-2015, AKONING

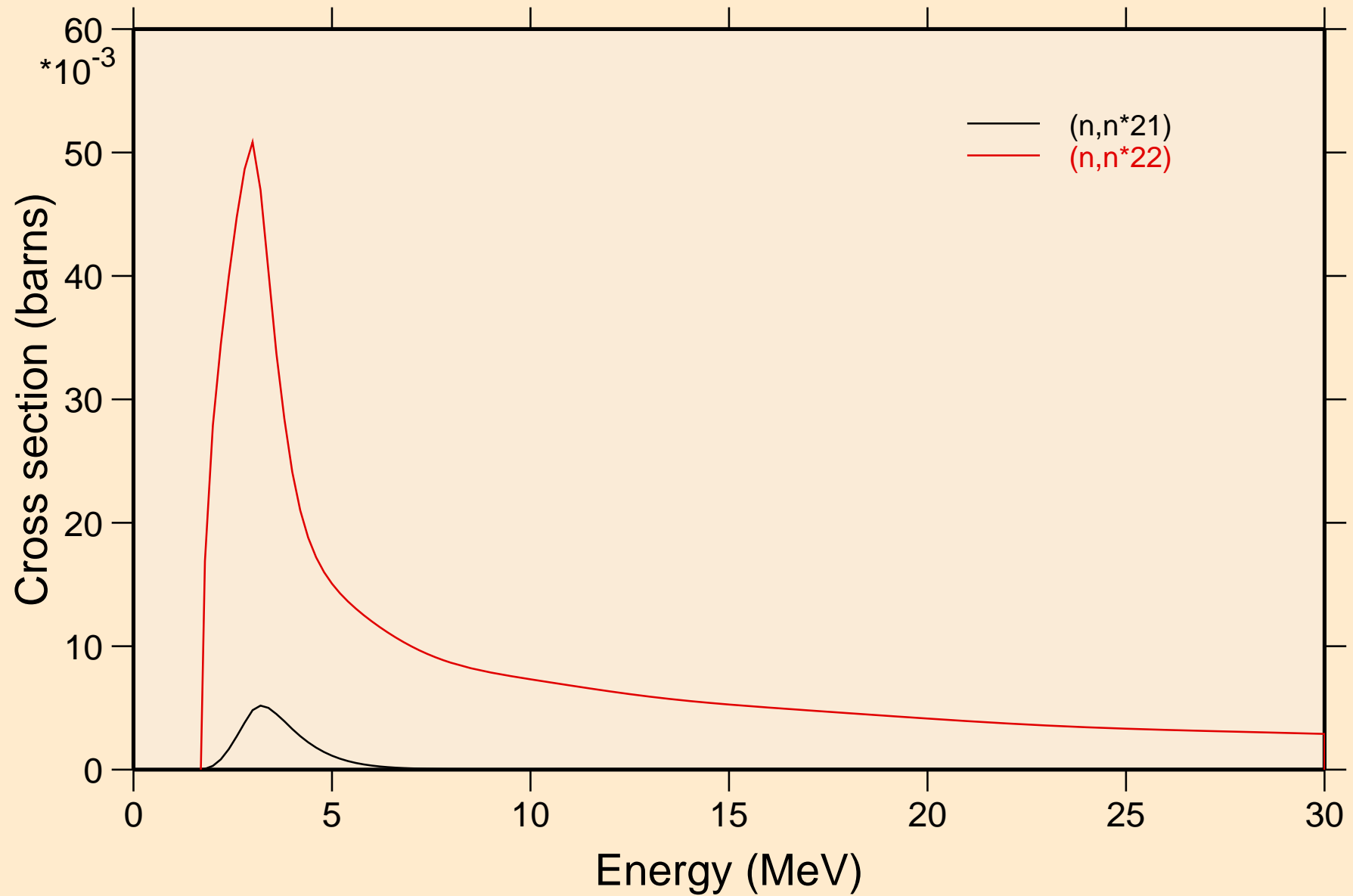
## Inelastic levels





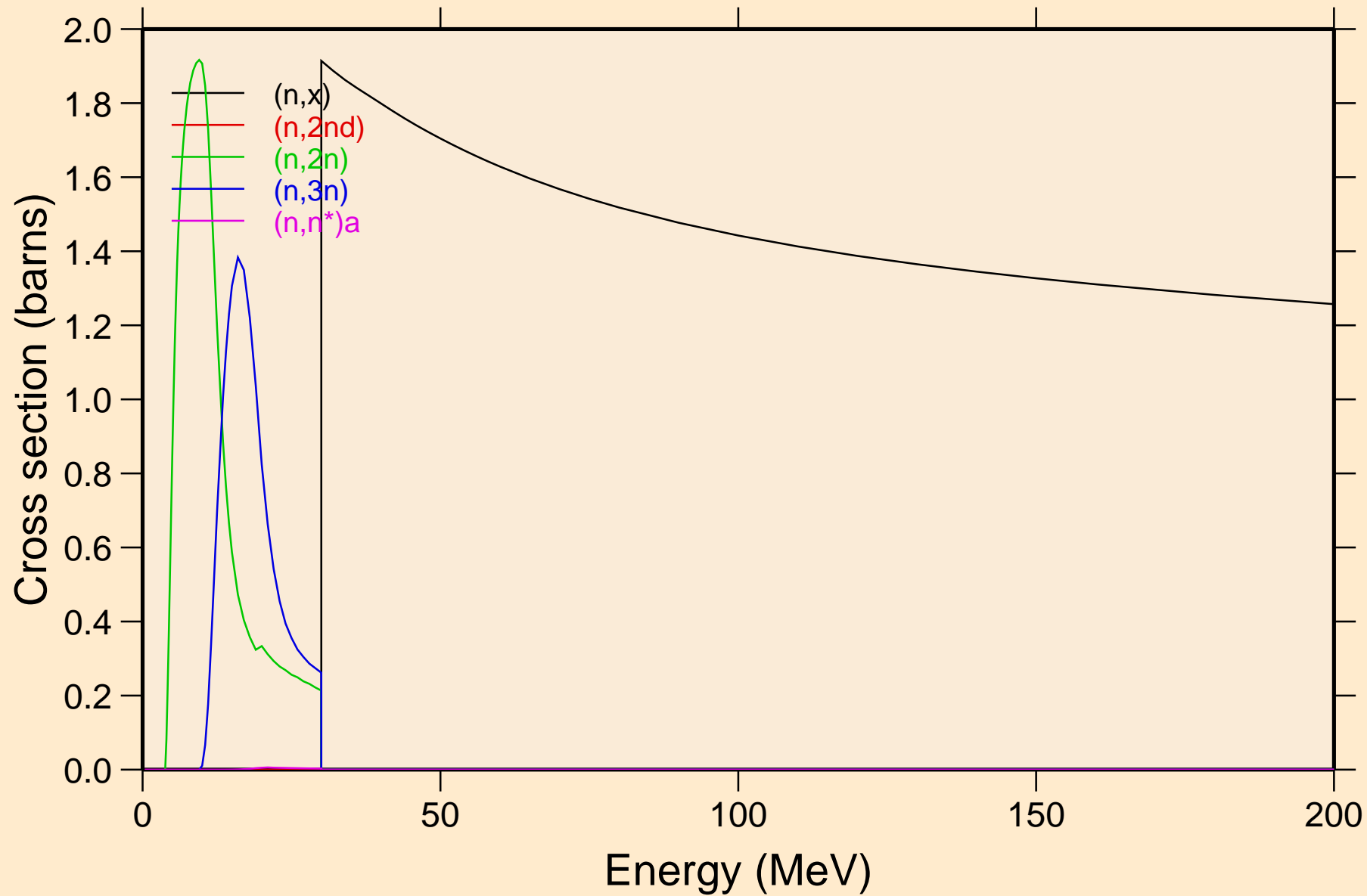
# XE139 NRG TENDL-2015, AKONING

## Inelastic levels



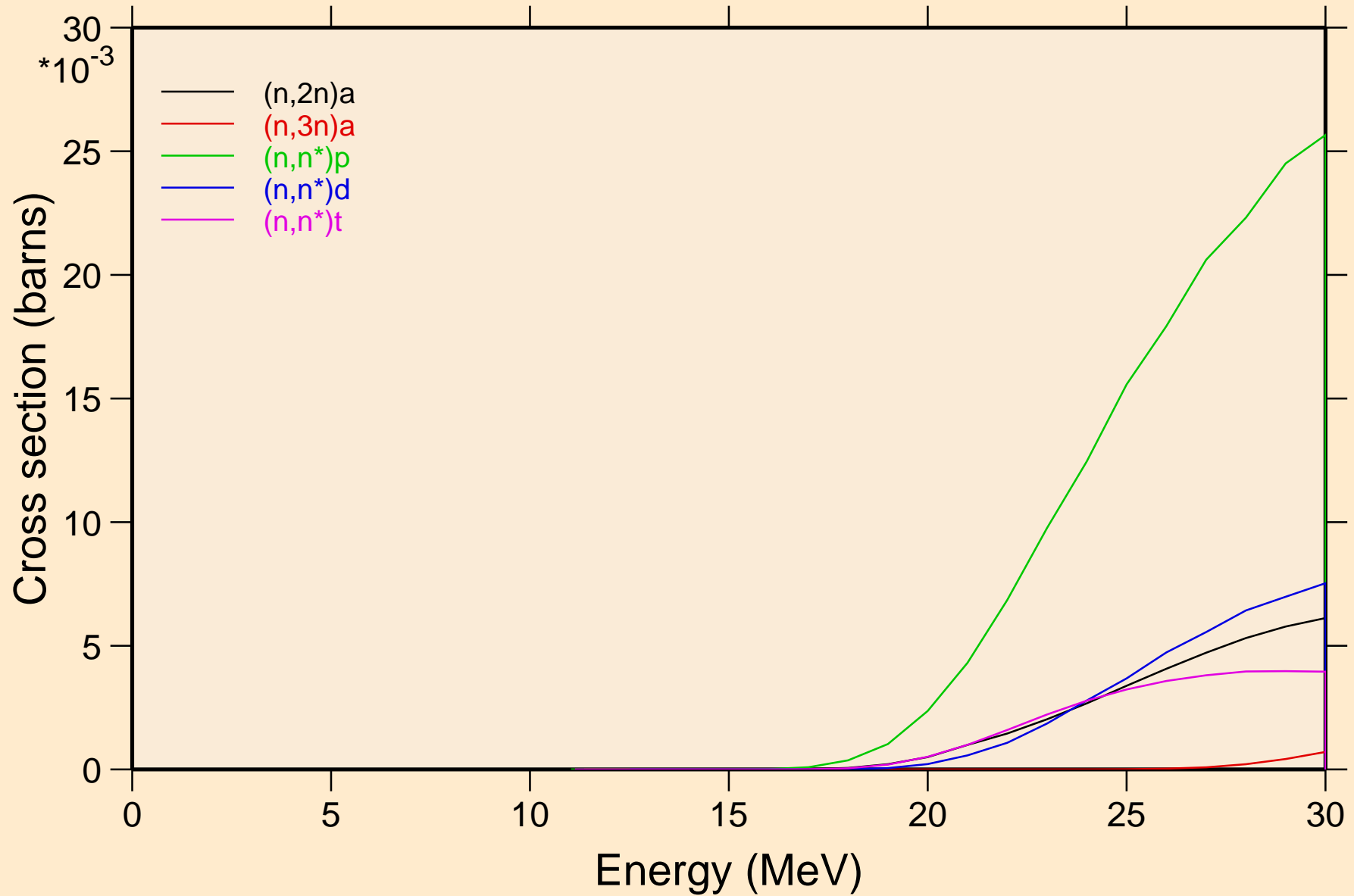
# XE139 NRG TENDL-2015, AKONING

## Threshold reactions



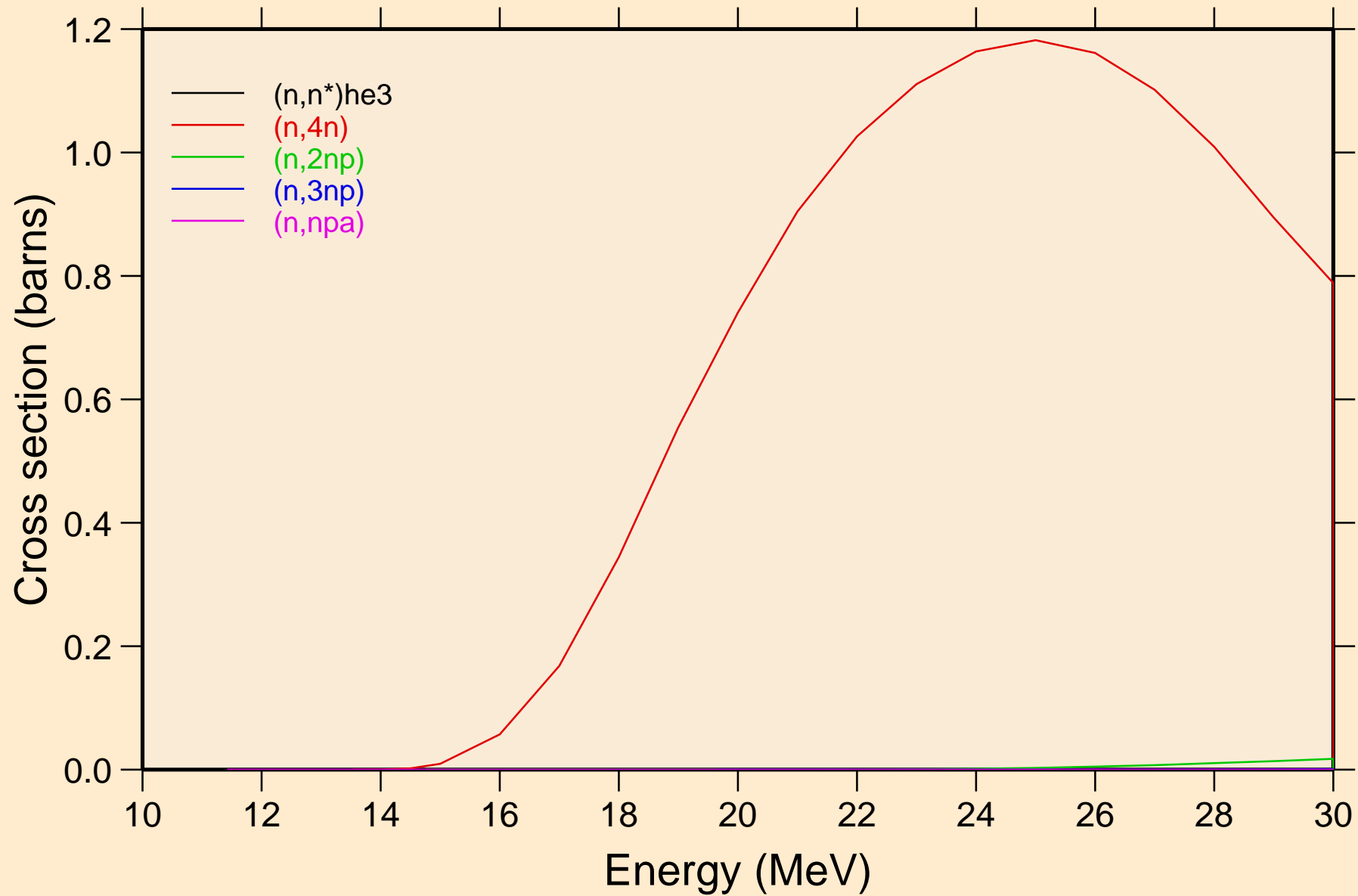
# XE139 NRG TENDL-2015, AKONING

## Threshold reactions



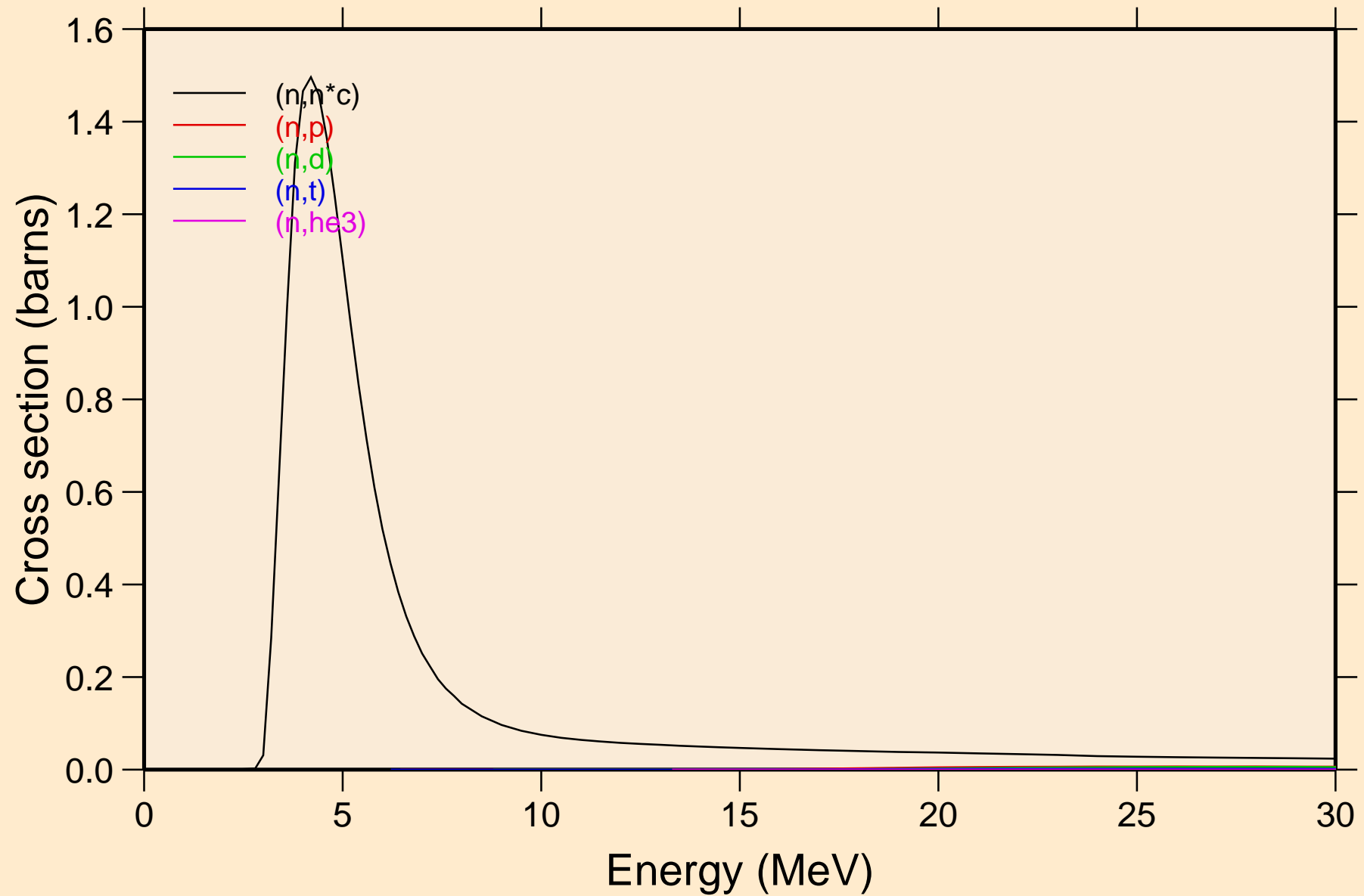
# XE139 NRG TENDL-2015, AKONING

## Threshold reactions



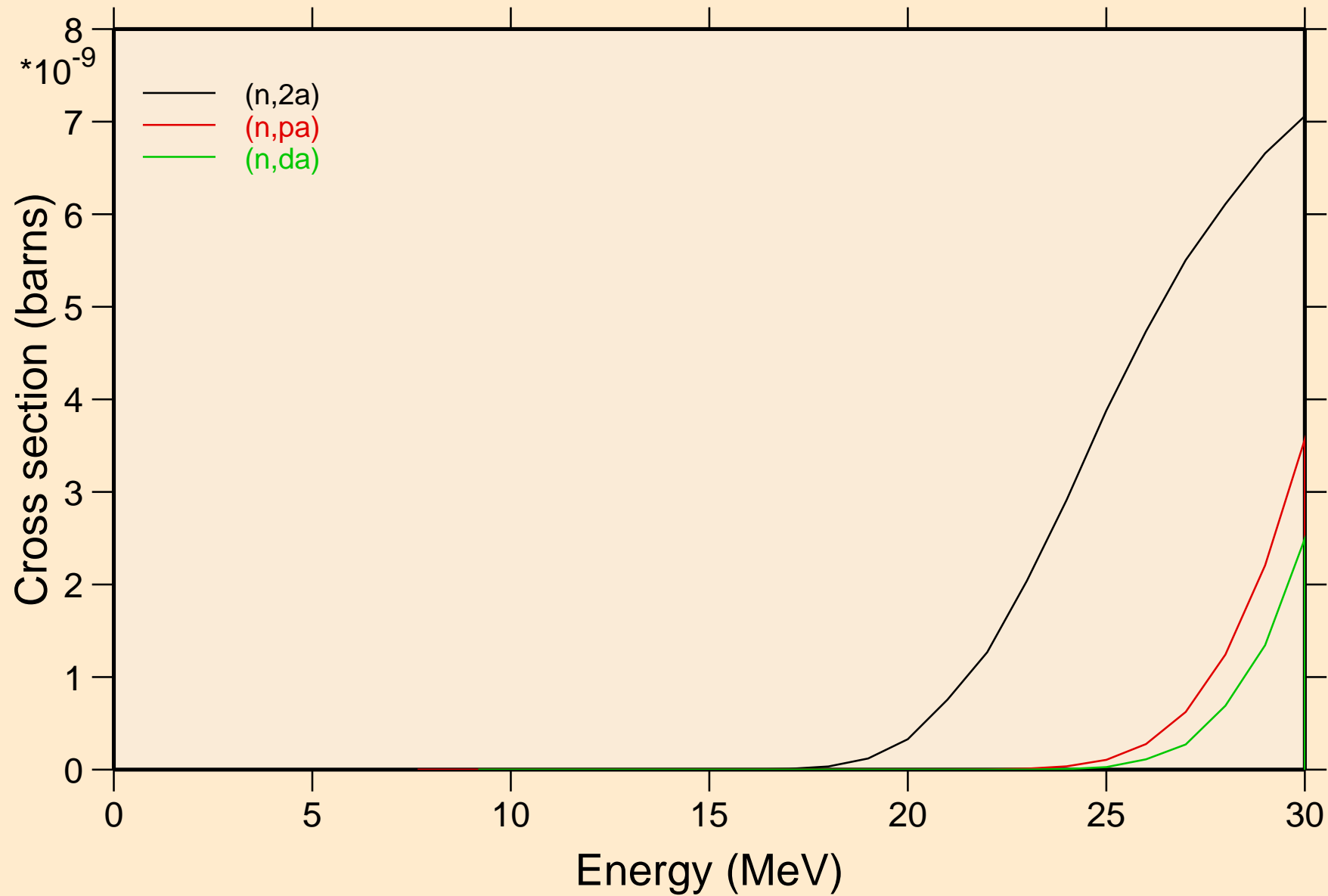
# XE139 NRG TENDL-2015, AKONING

## Threshold reactions

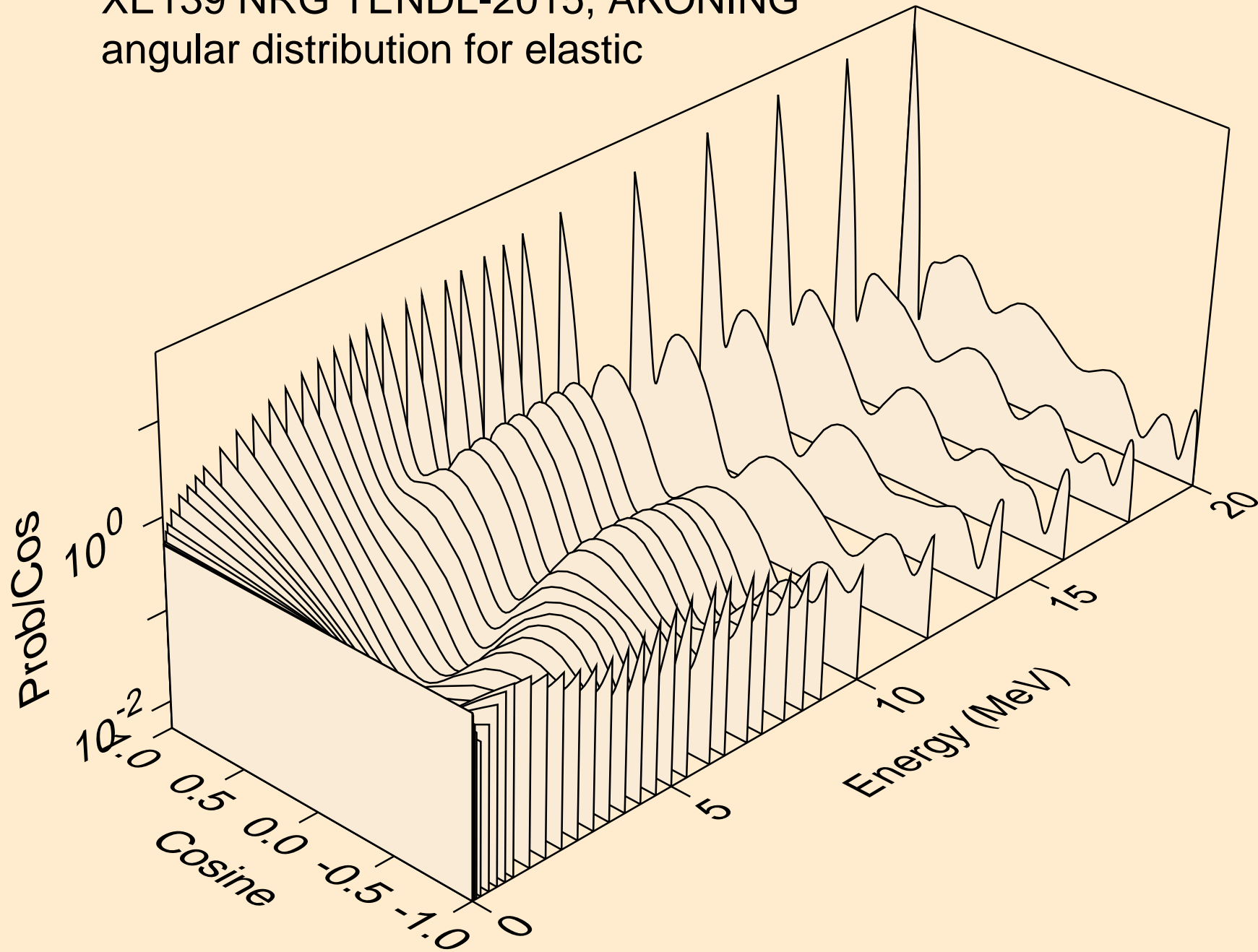


# XE139 NRG TENDL-2015, AKONING

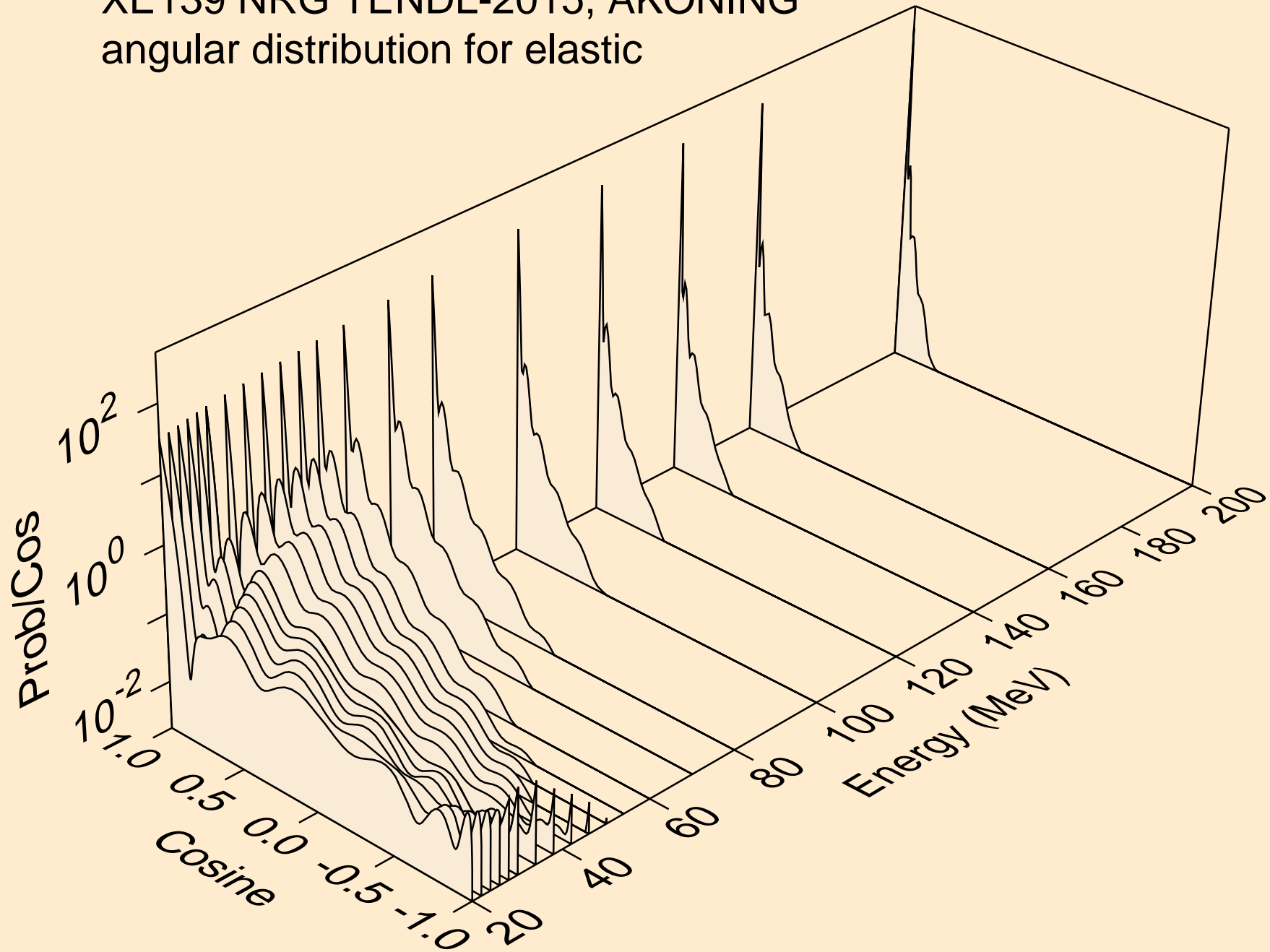
## Threshold reactions



XE139 NRG TENDL-2015, AKONING  
angular distribution for elastic

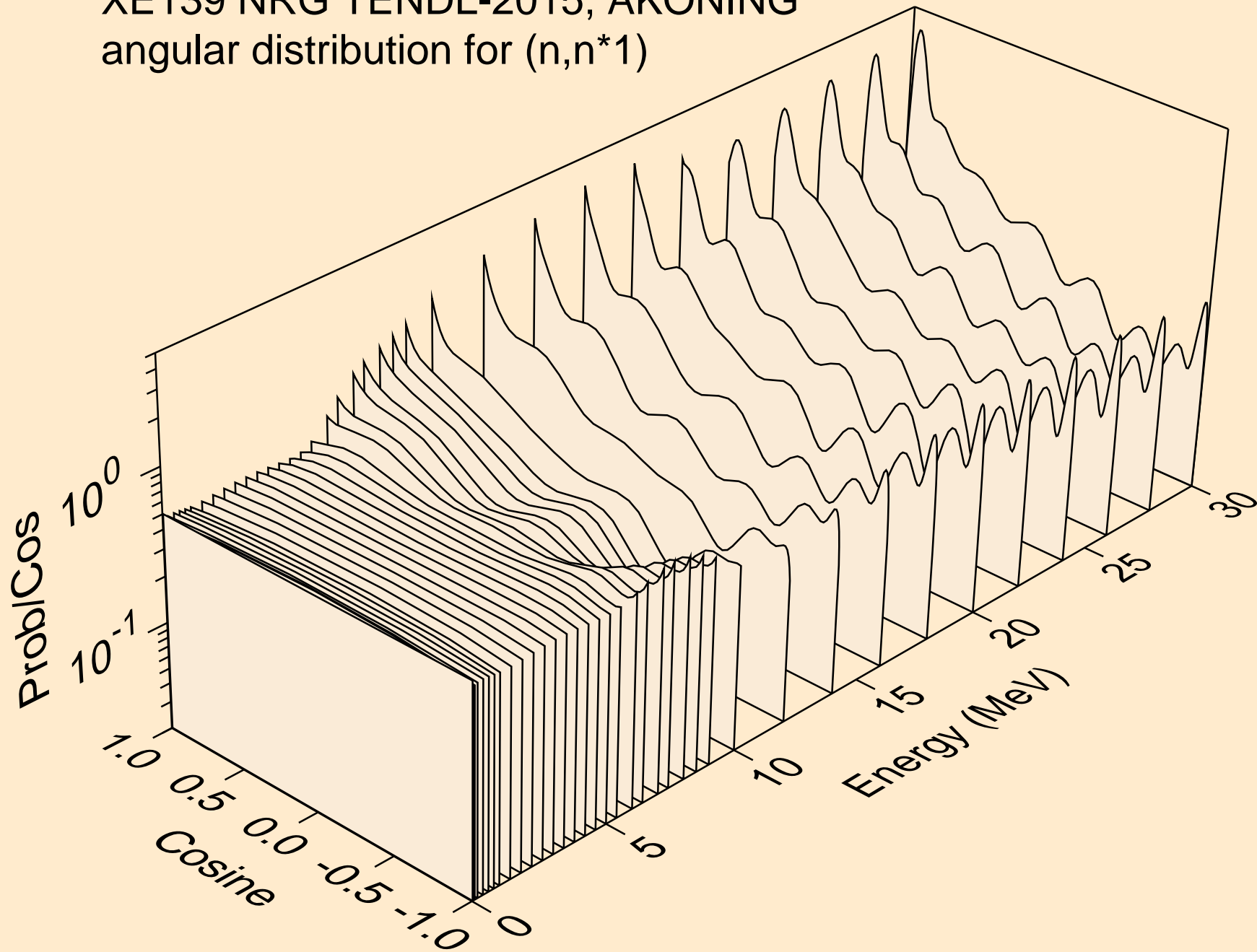


XE139 NRG TENDL-2015, AKONING  
angular distribution for elastic

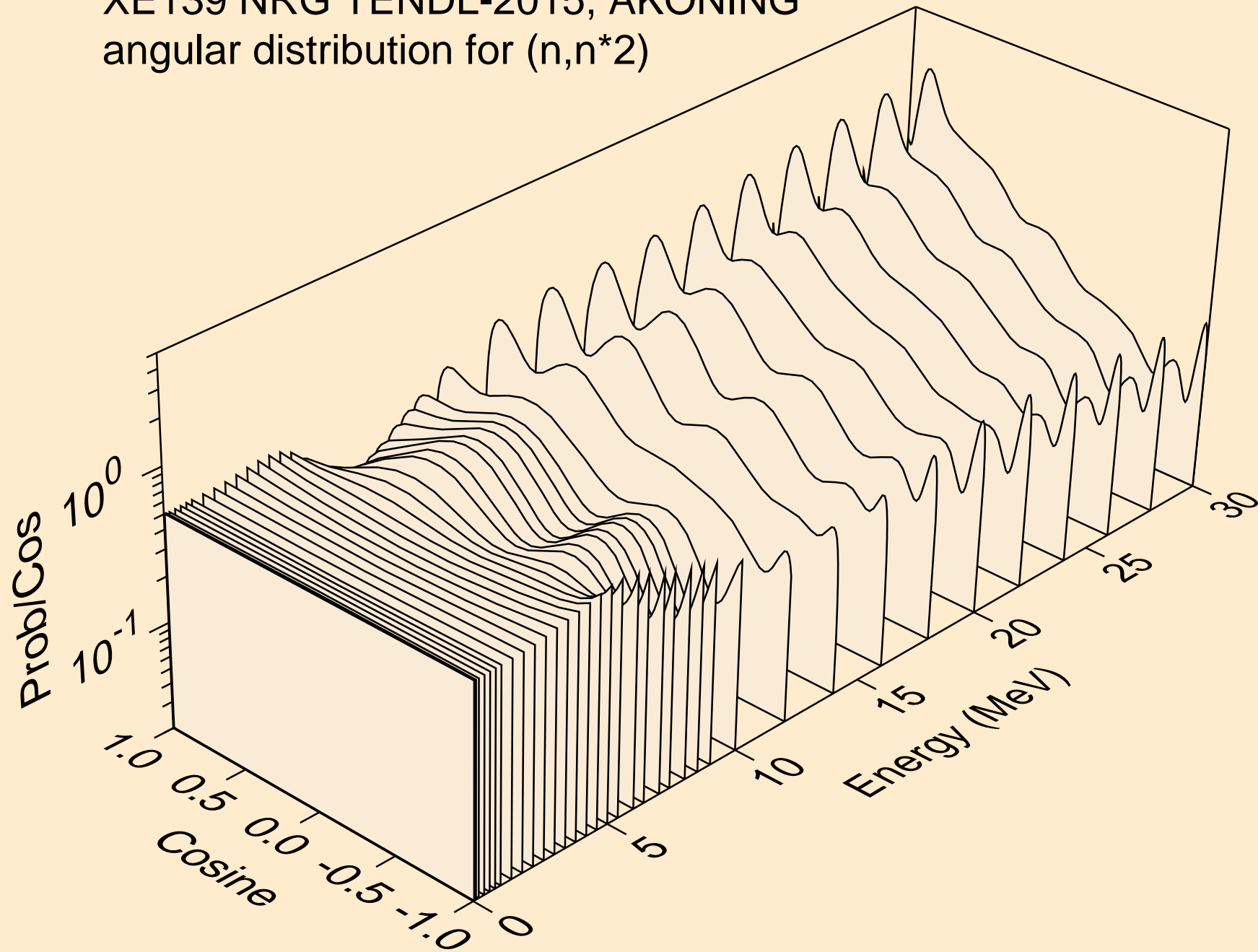




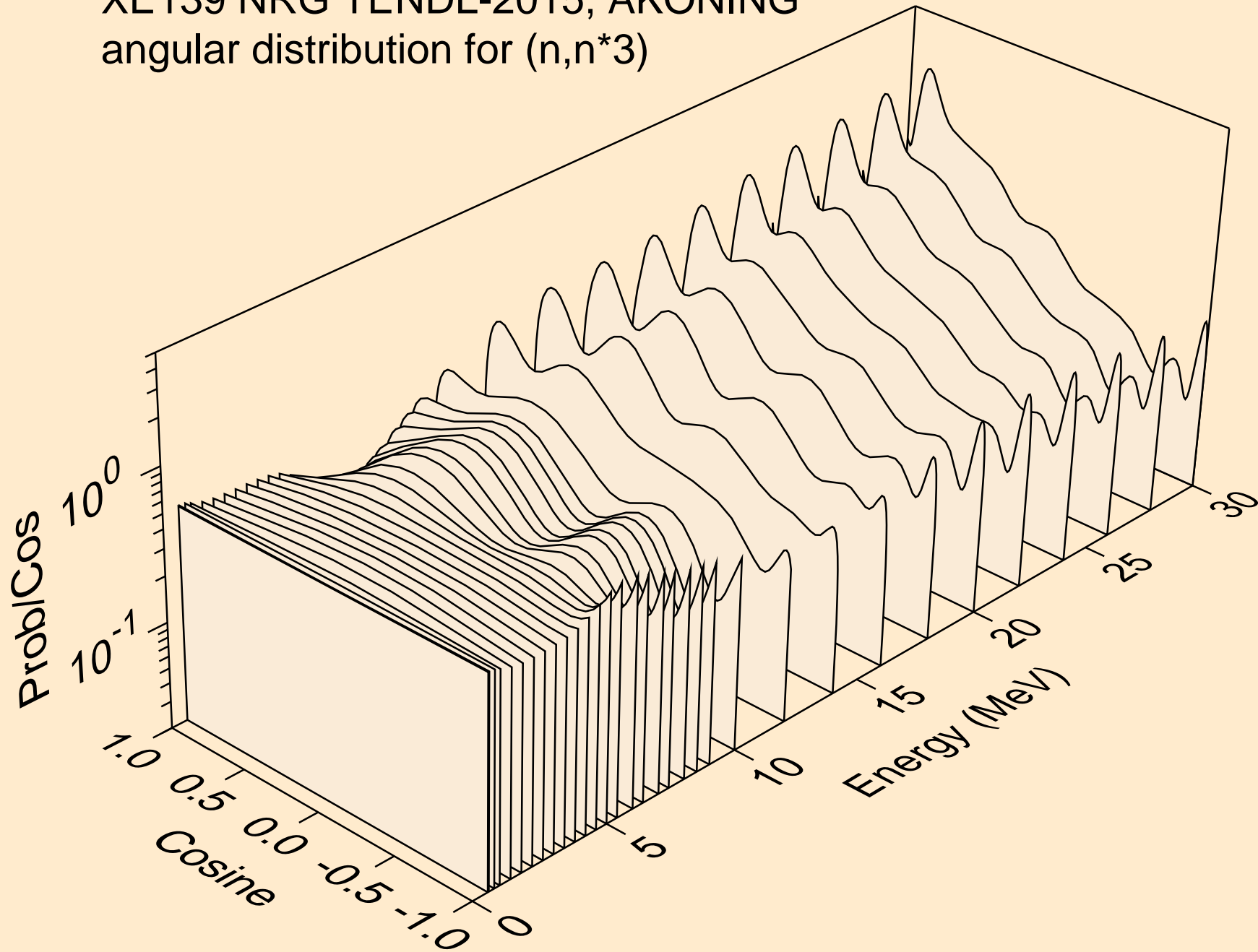
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*1)



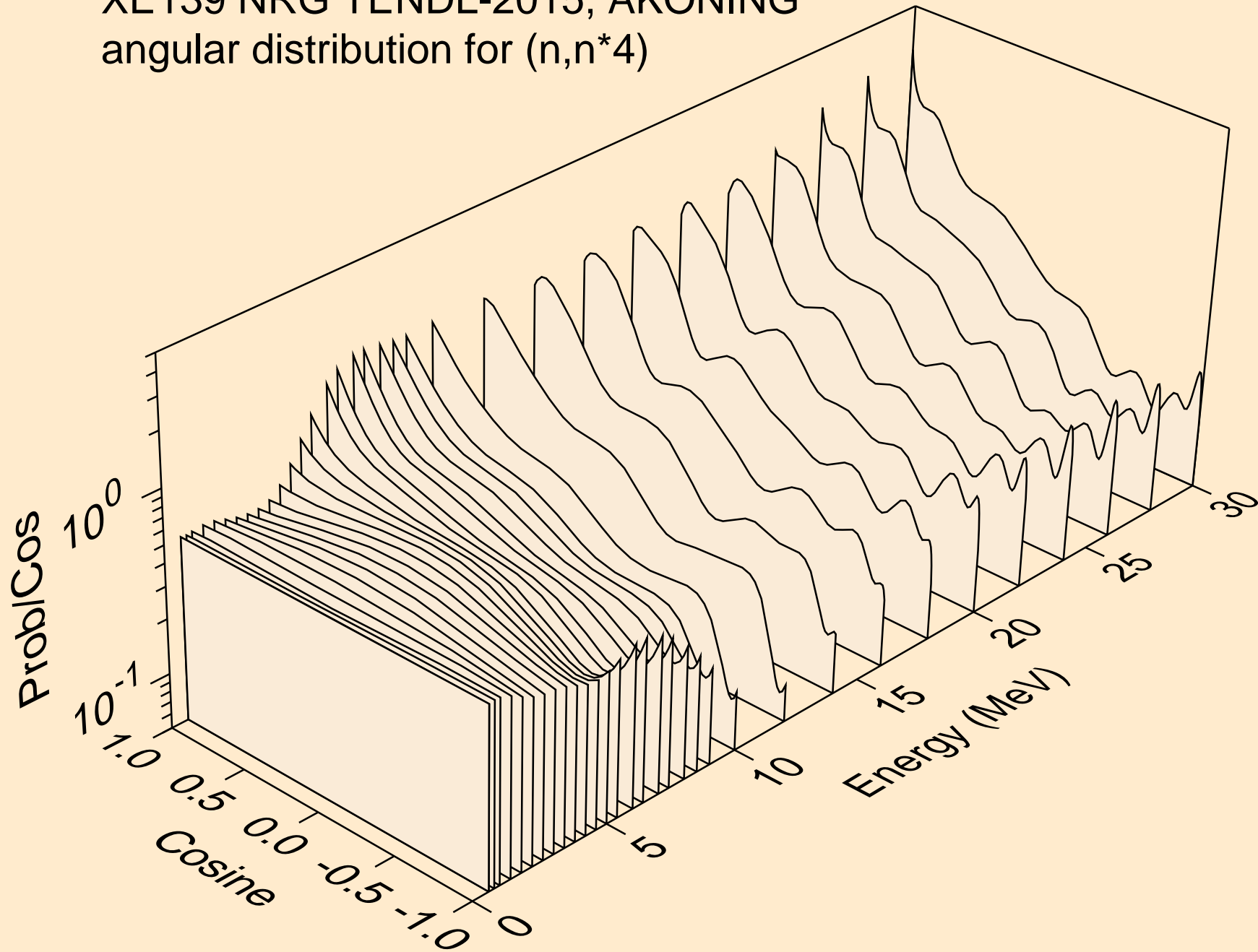
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*2)



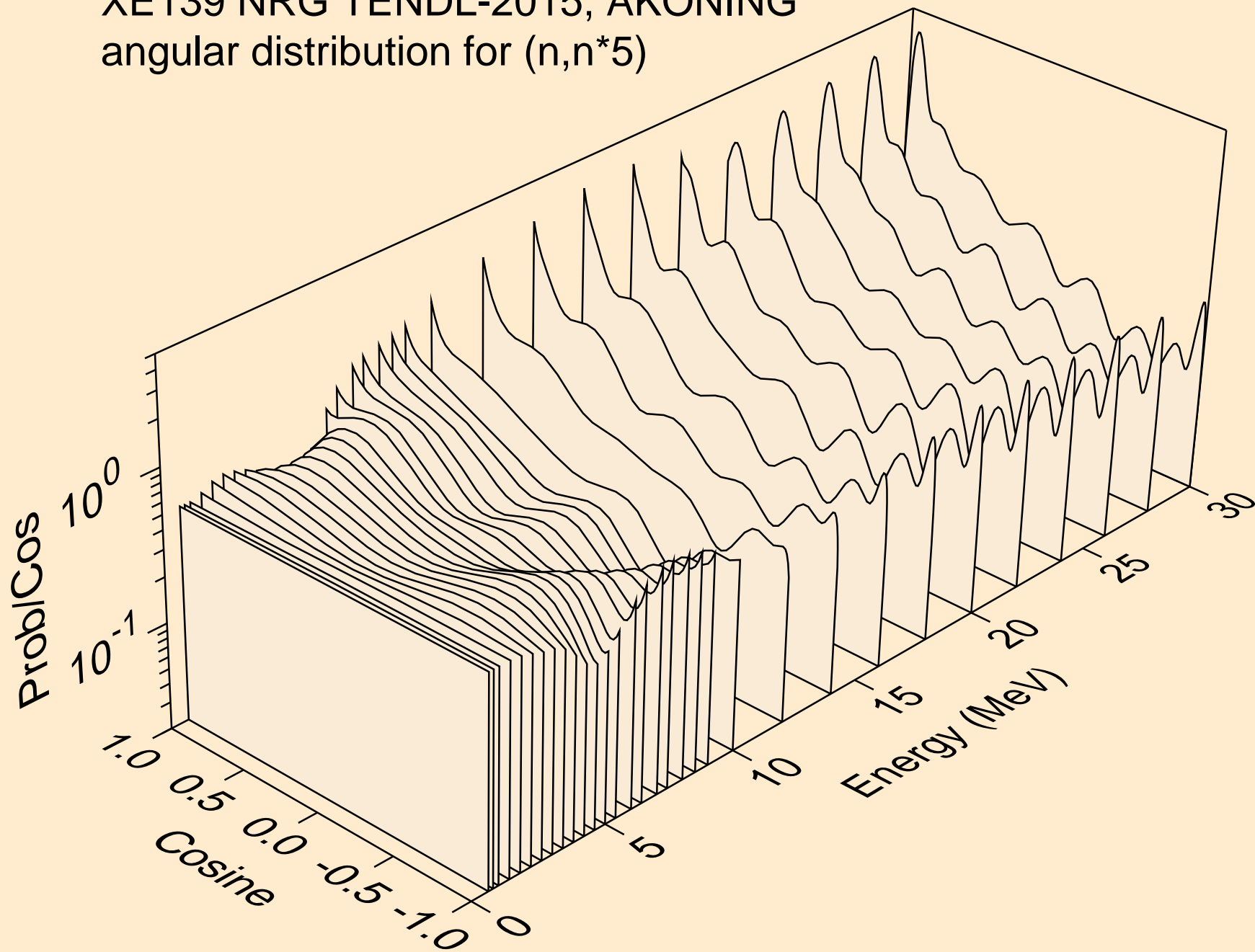
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*3)



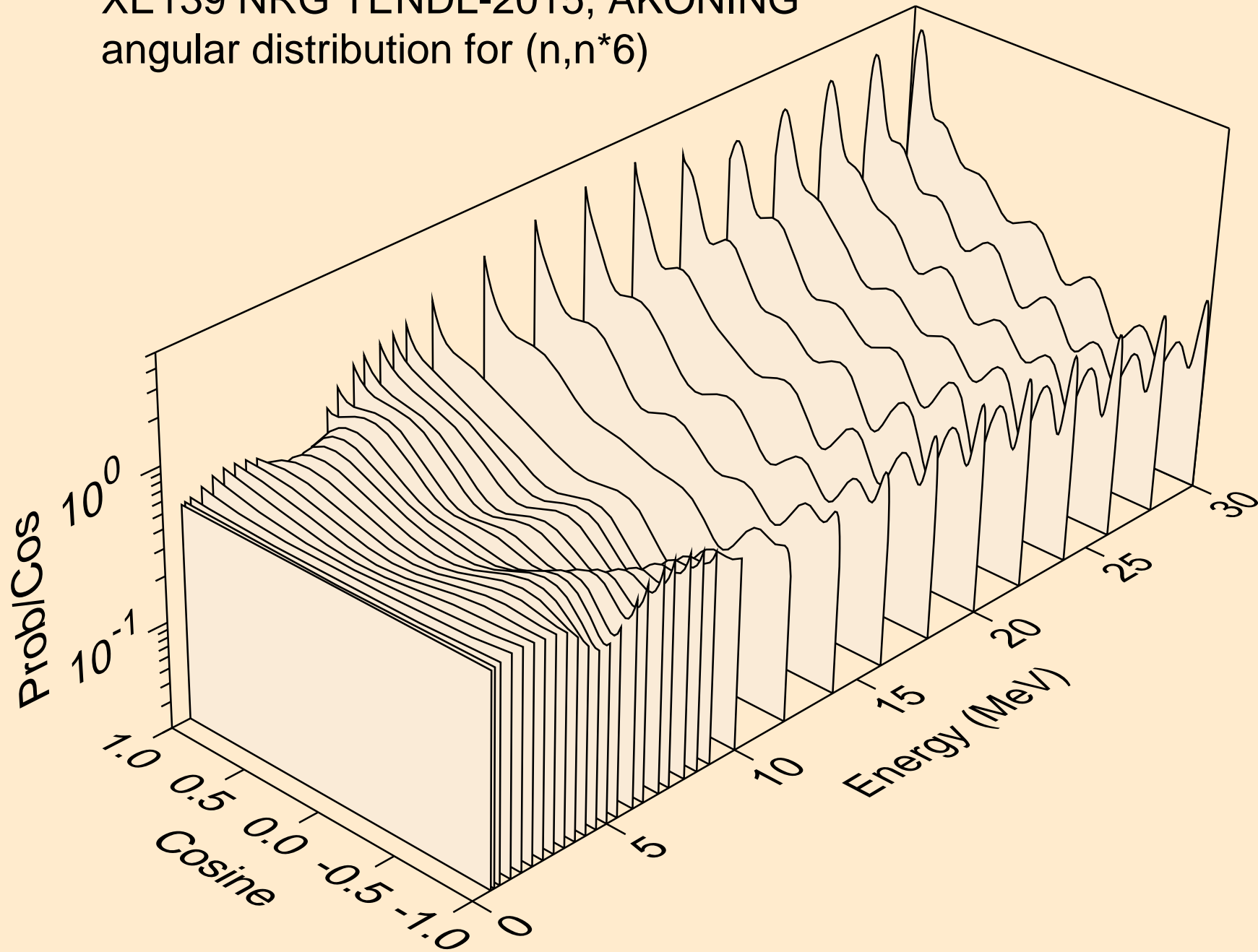
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*4)



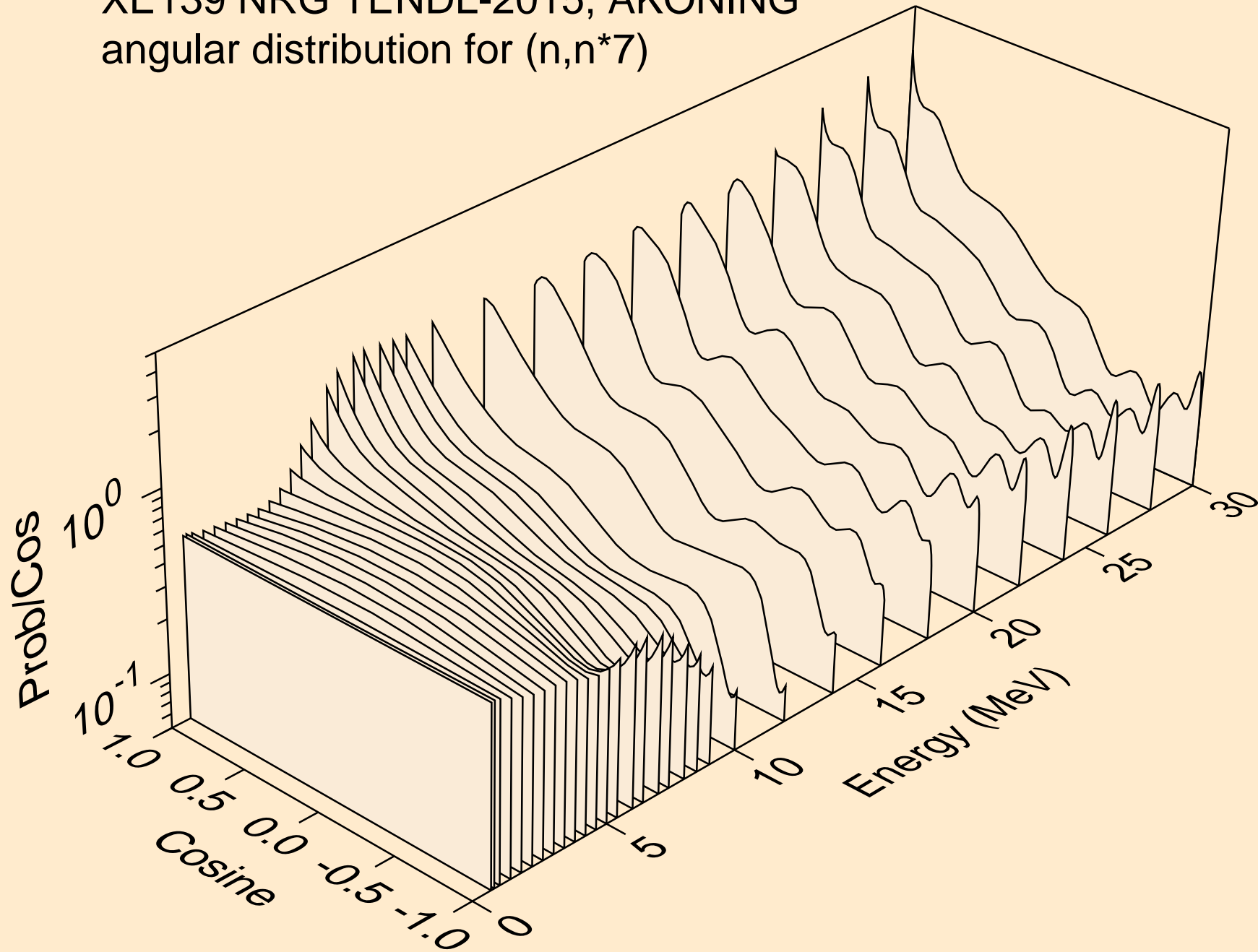
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*5)



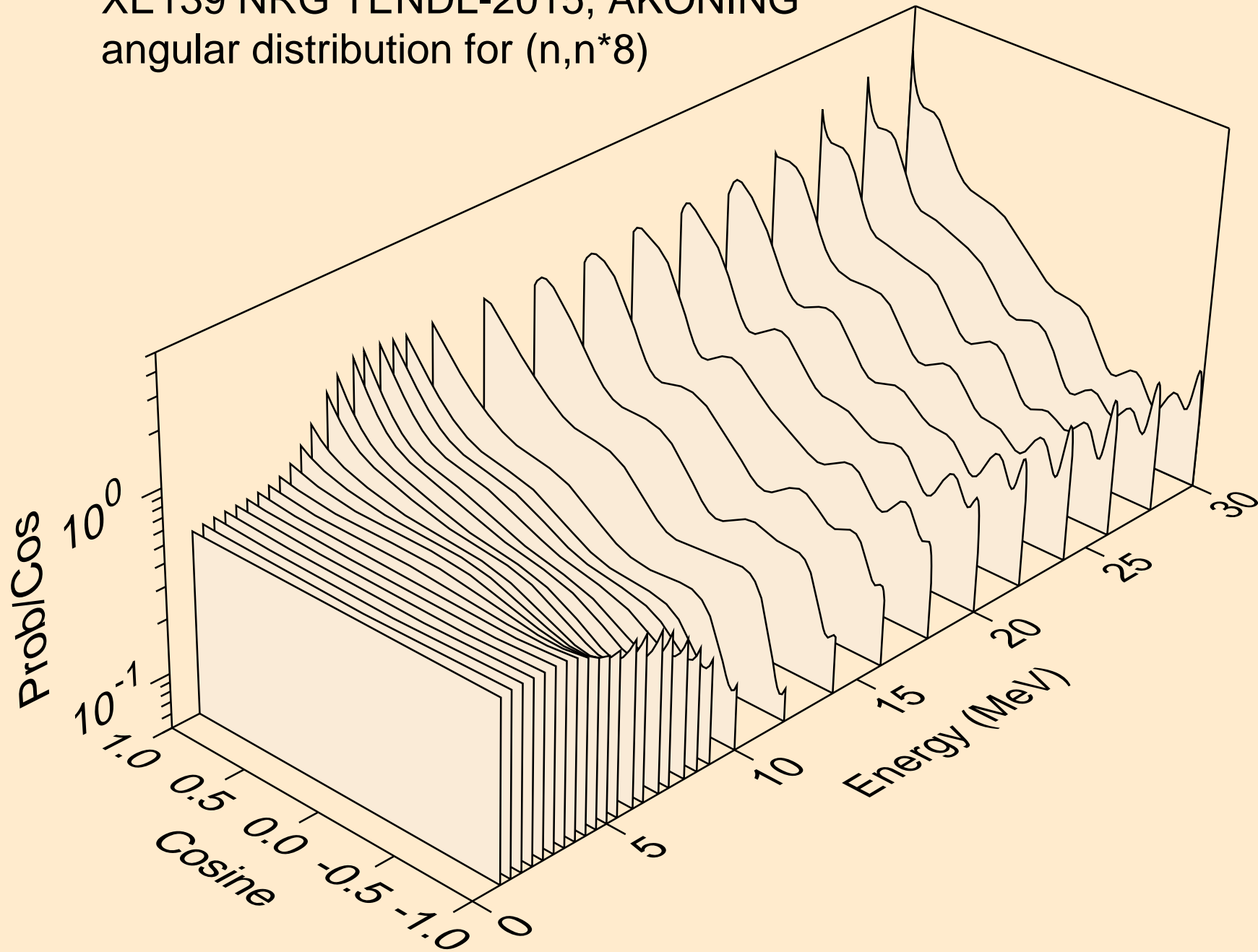
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*6)



XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*7)

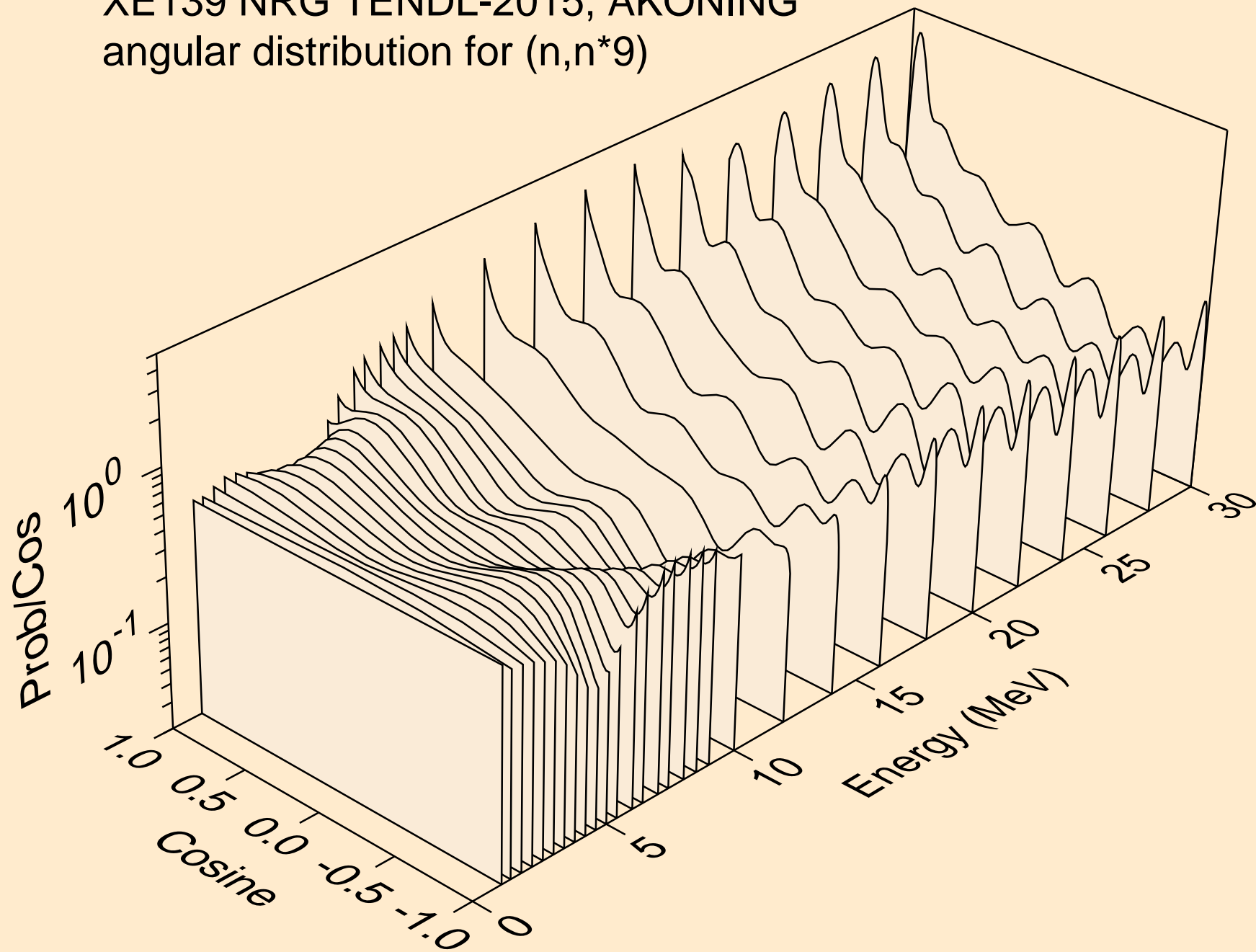


XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*8)

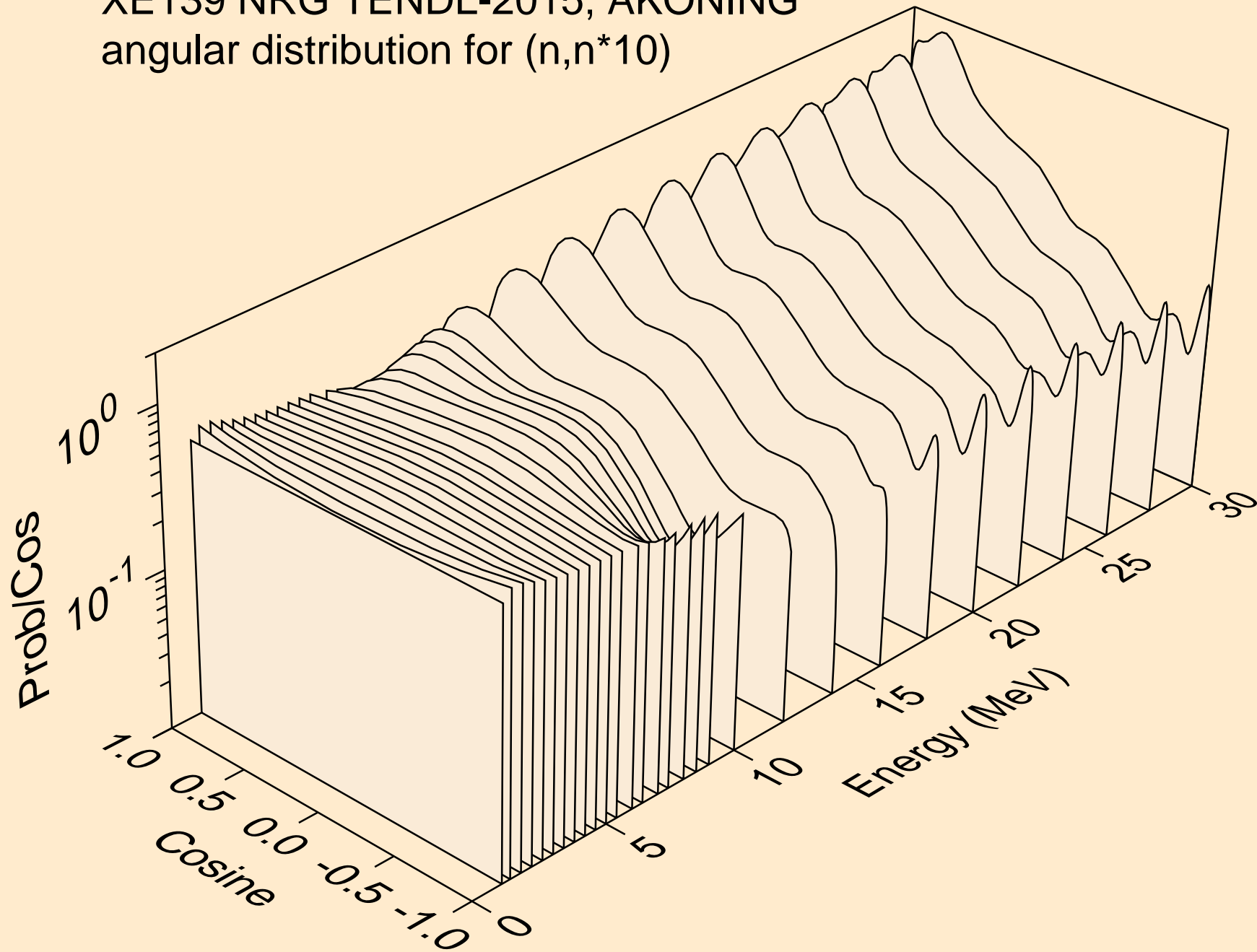




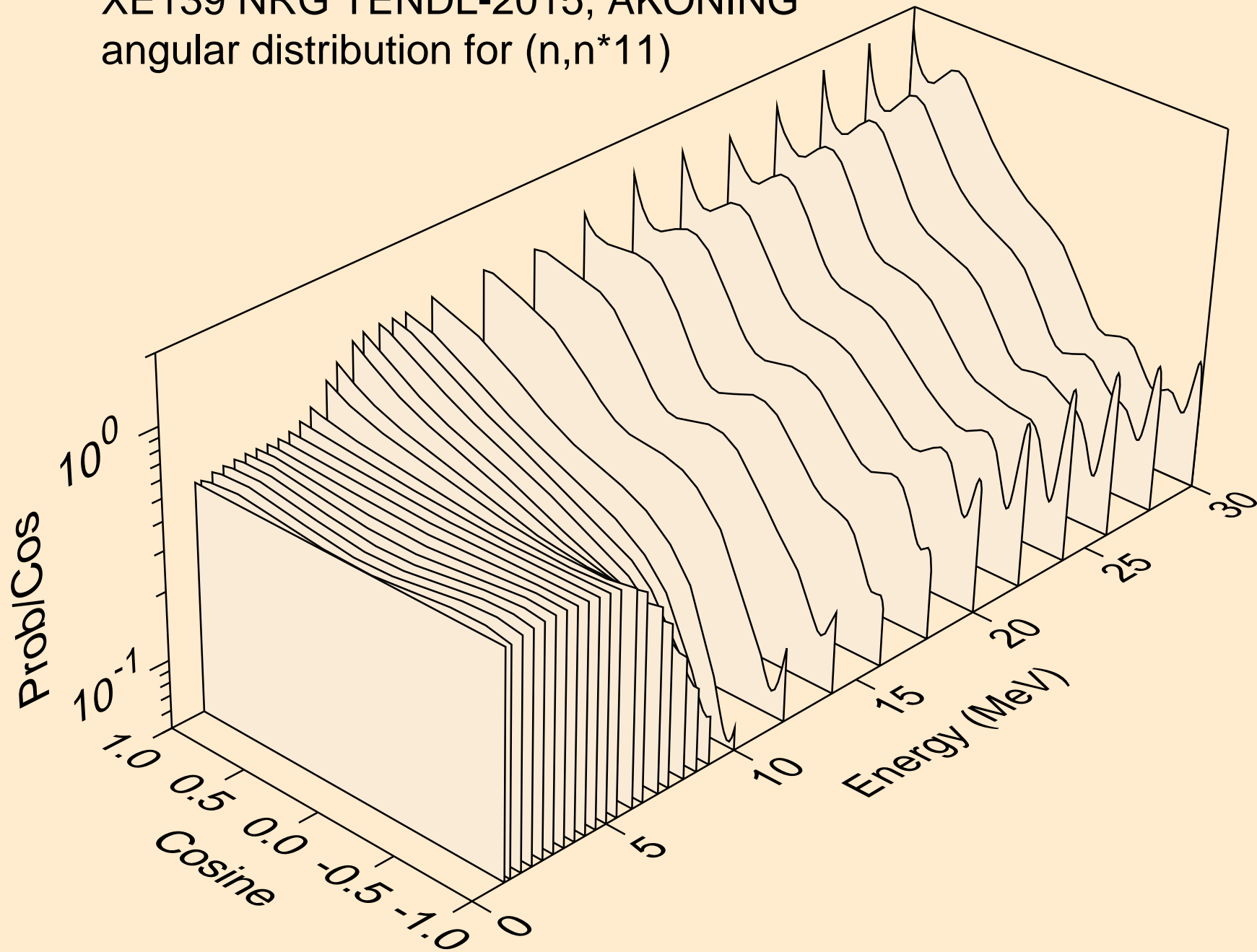
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*9)



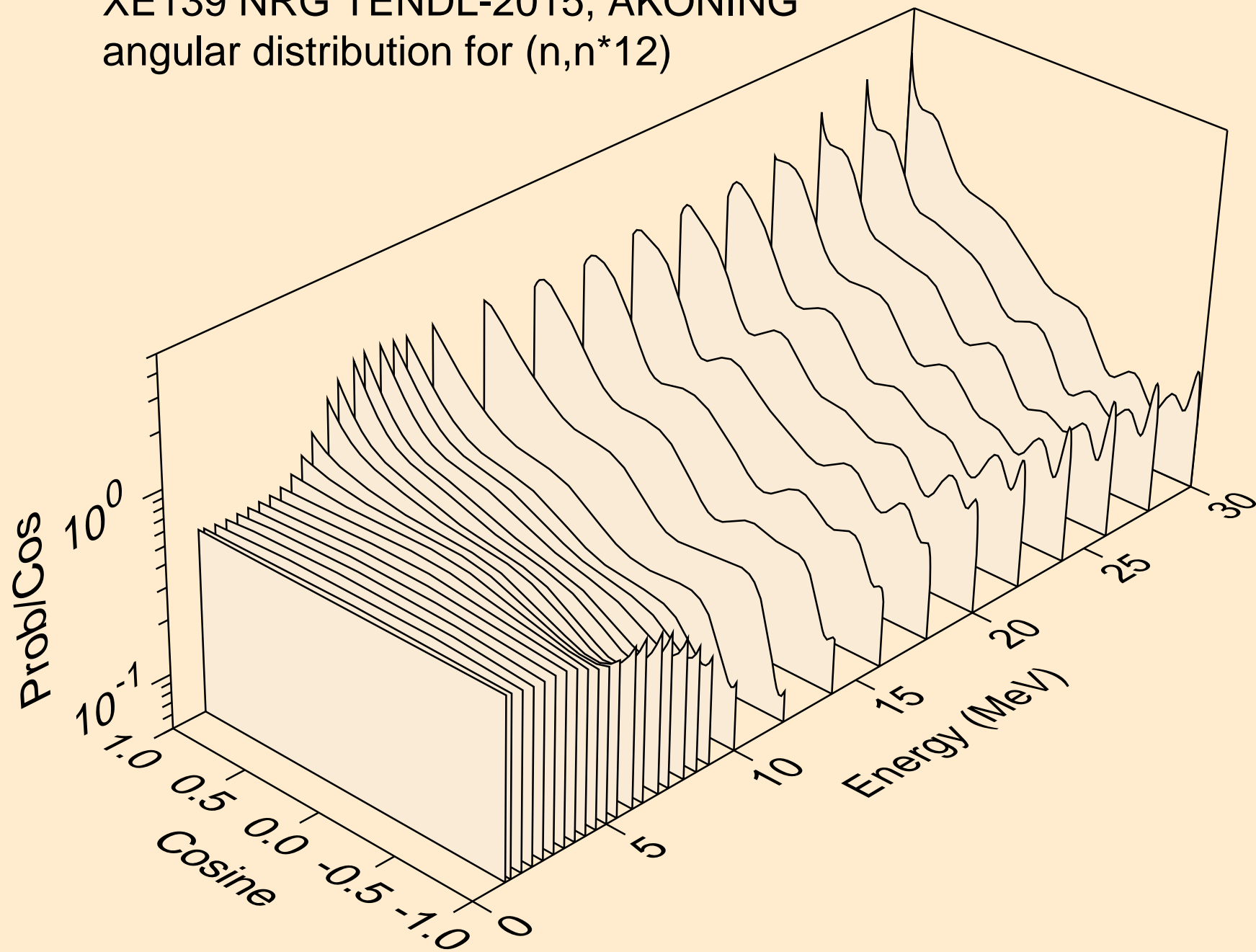
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*10)



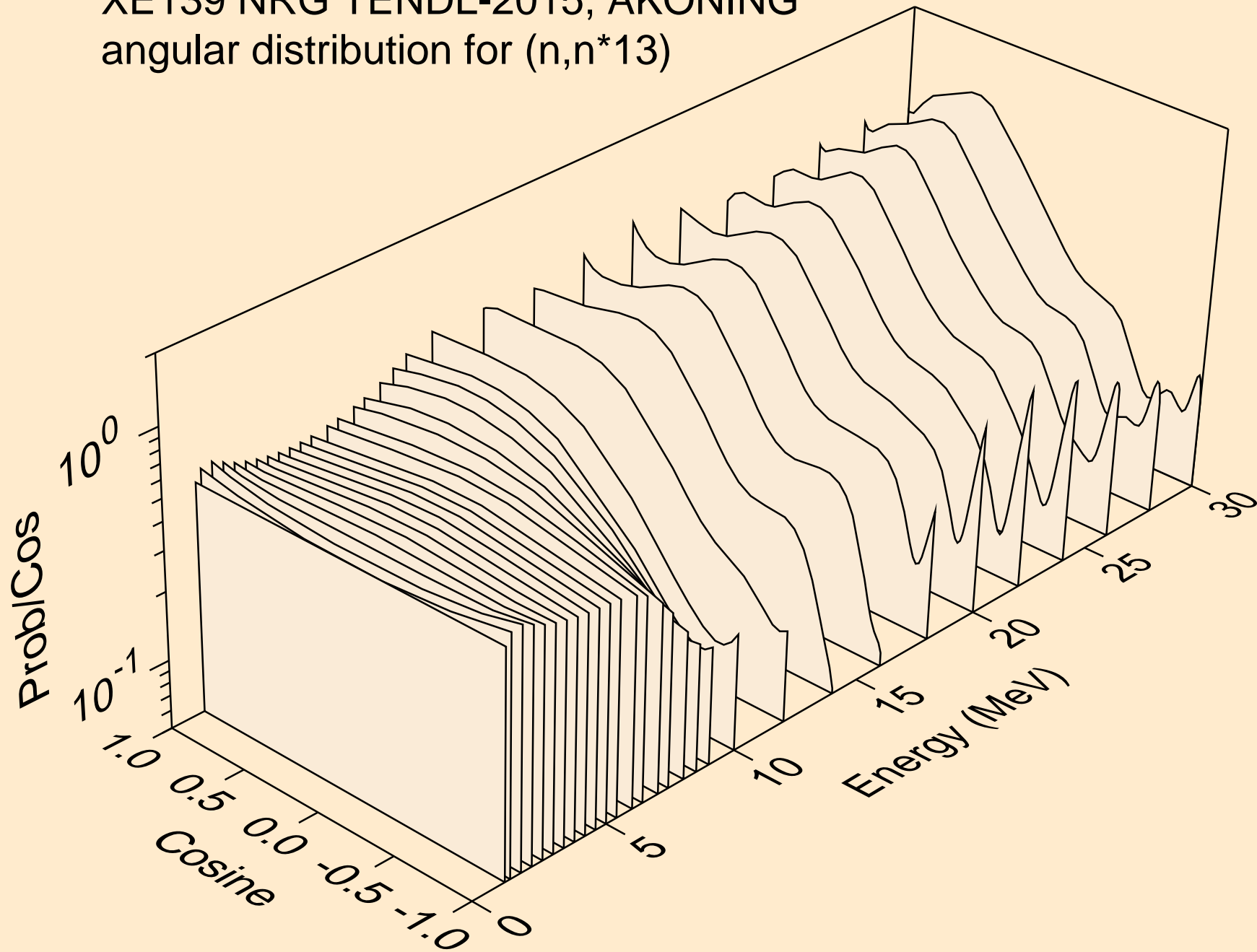
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*11)



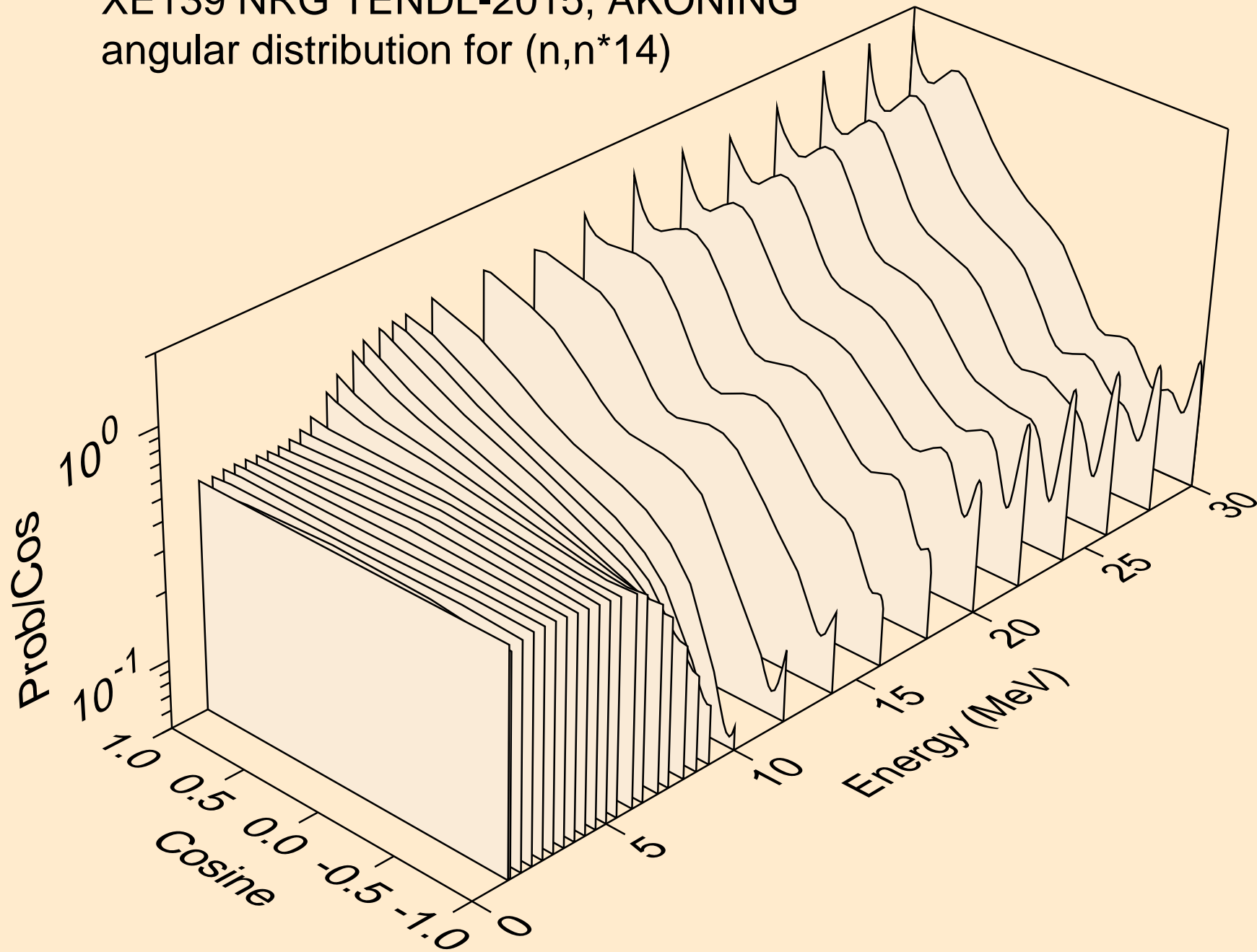
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*12)



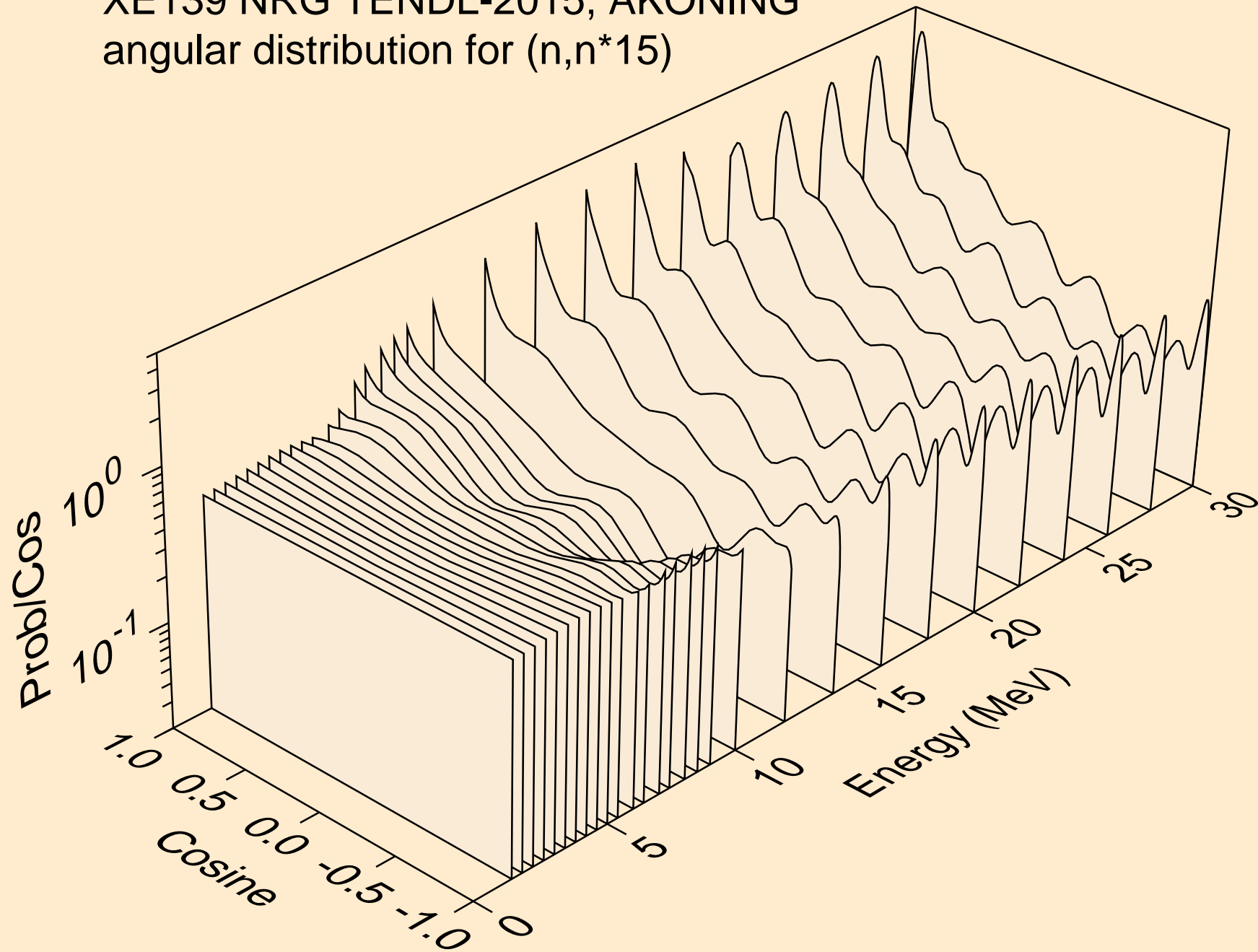
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*13)



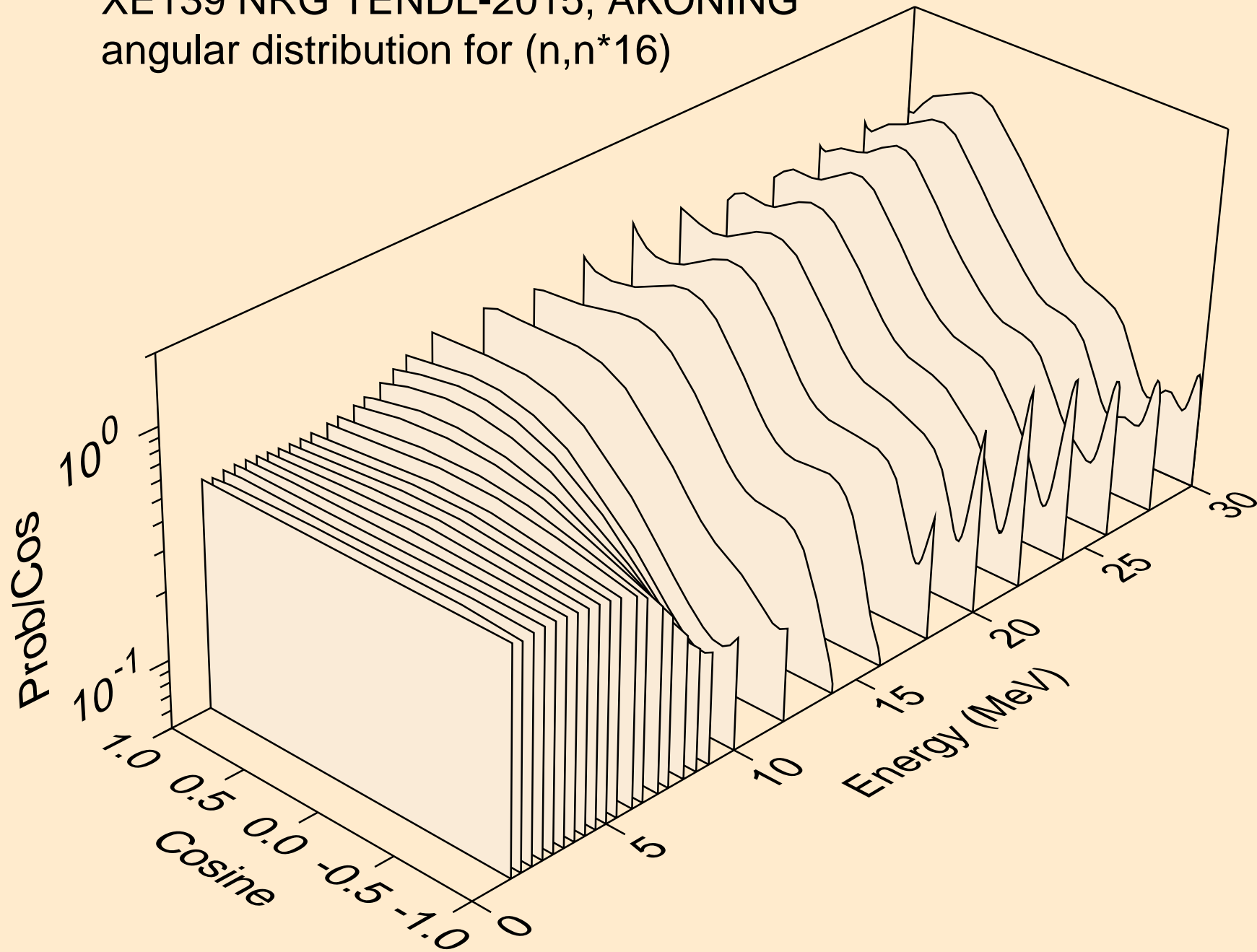
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*14)



XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*15)

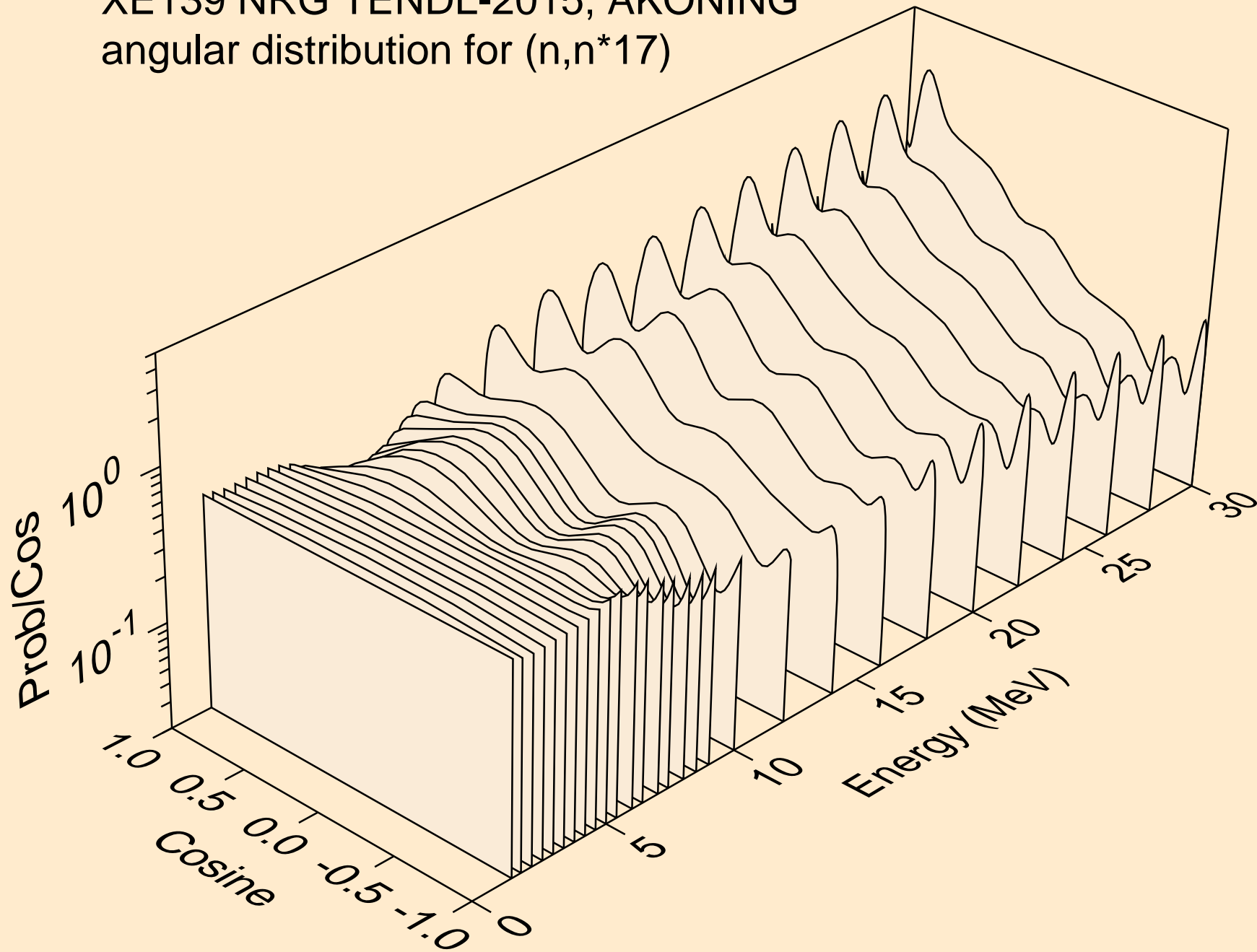


XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*16)

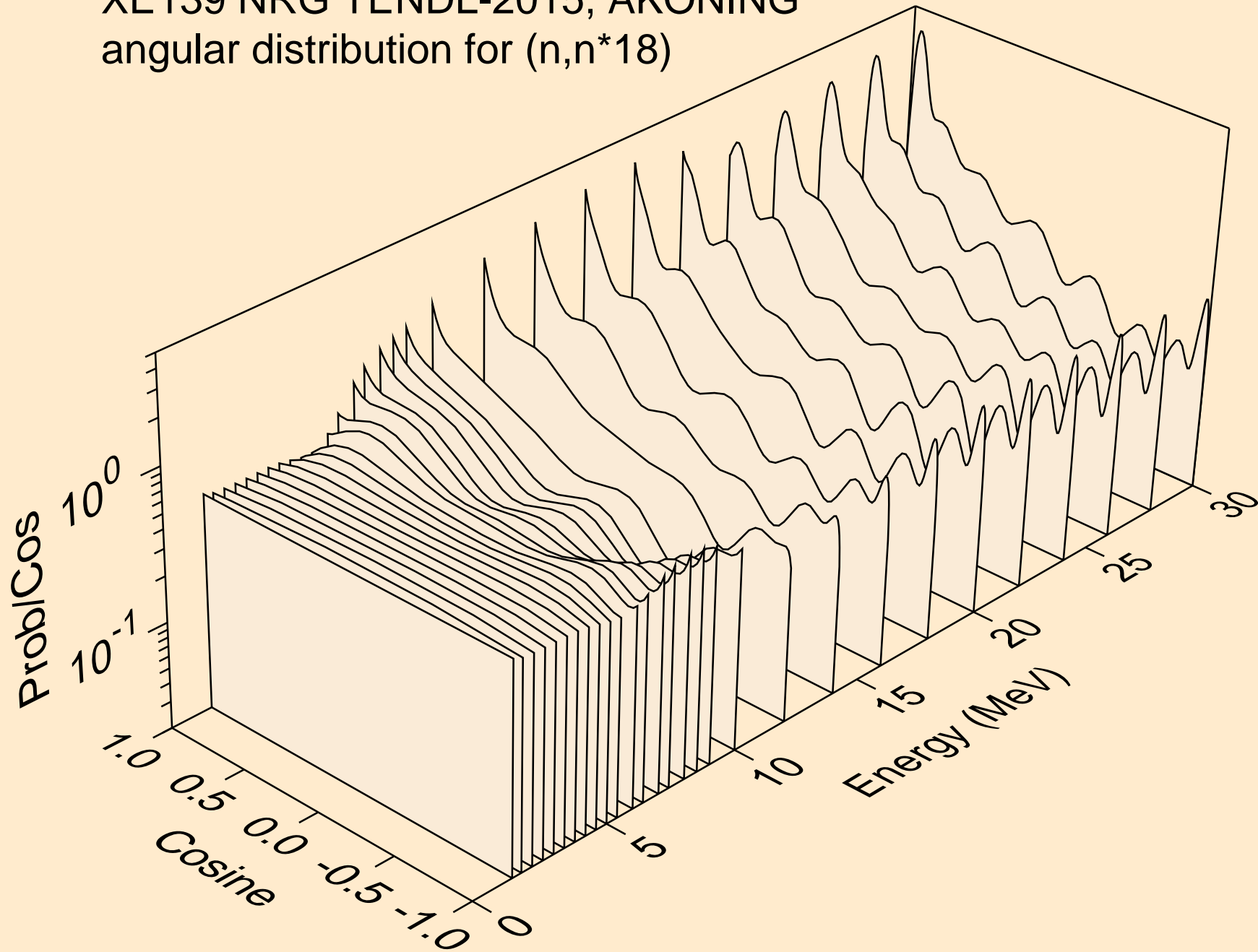




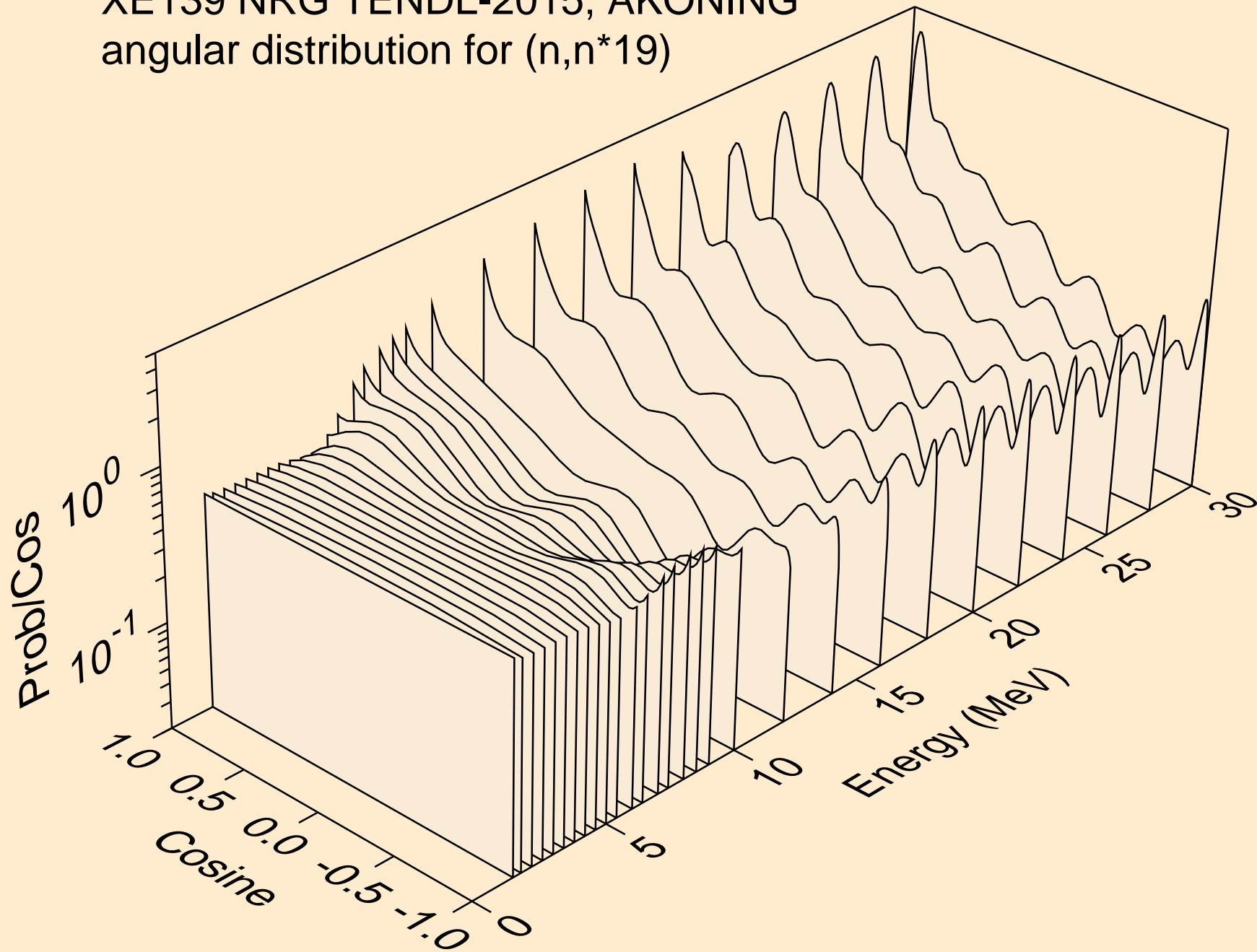
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angular distribution for (n,n\*17)



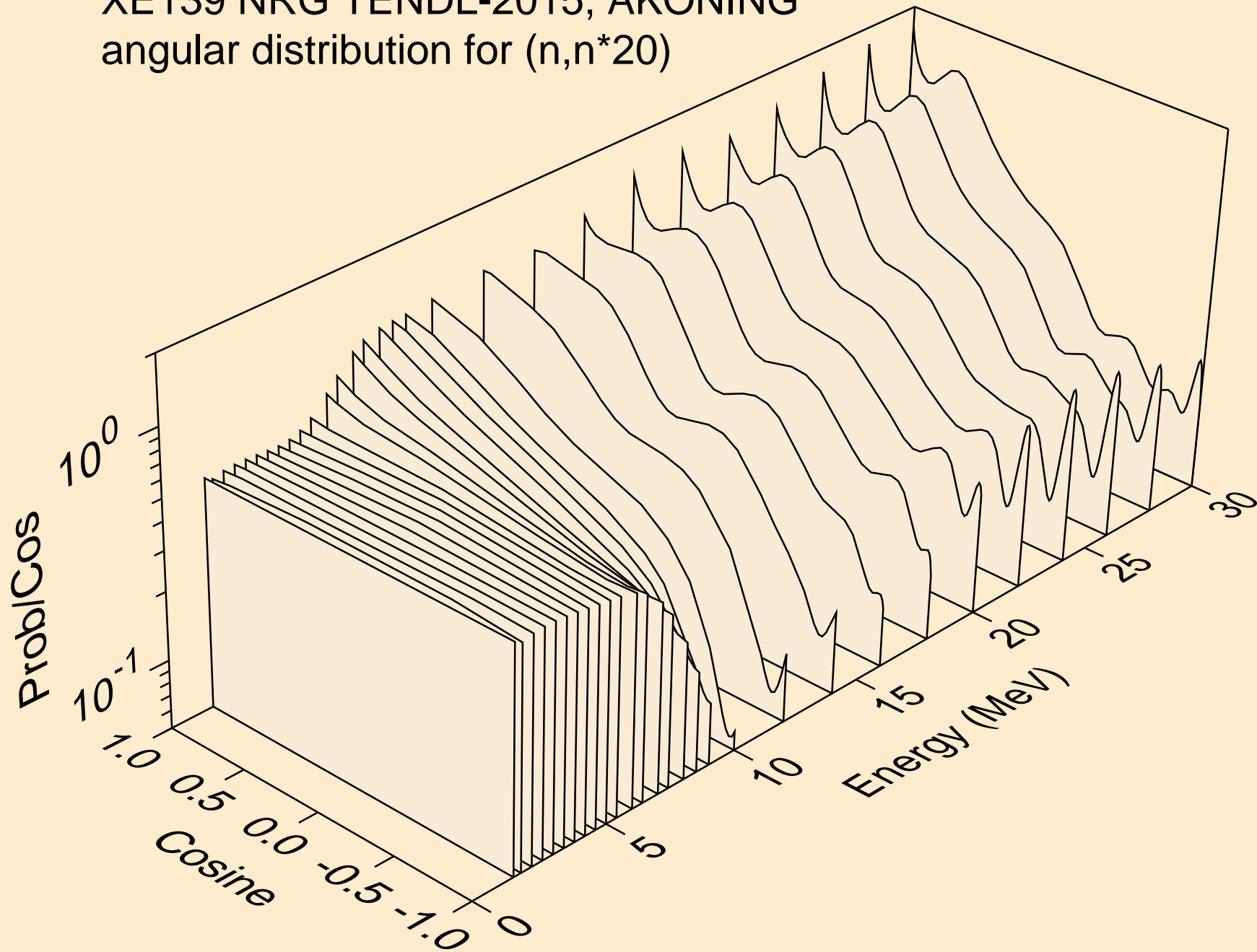
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angular distribution for (n,n\*18)



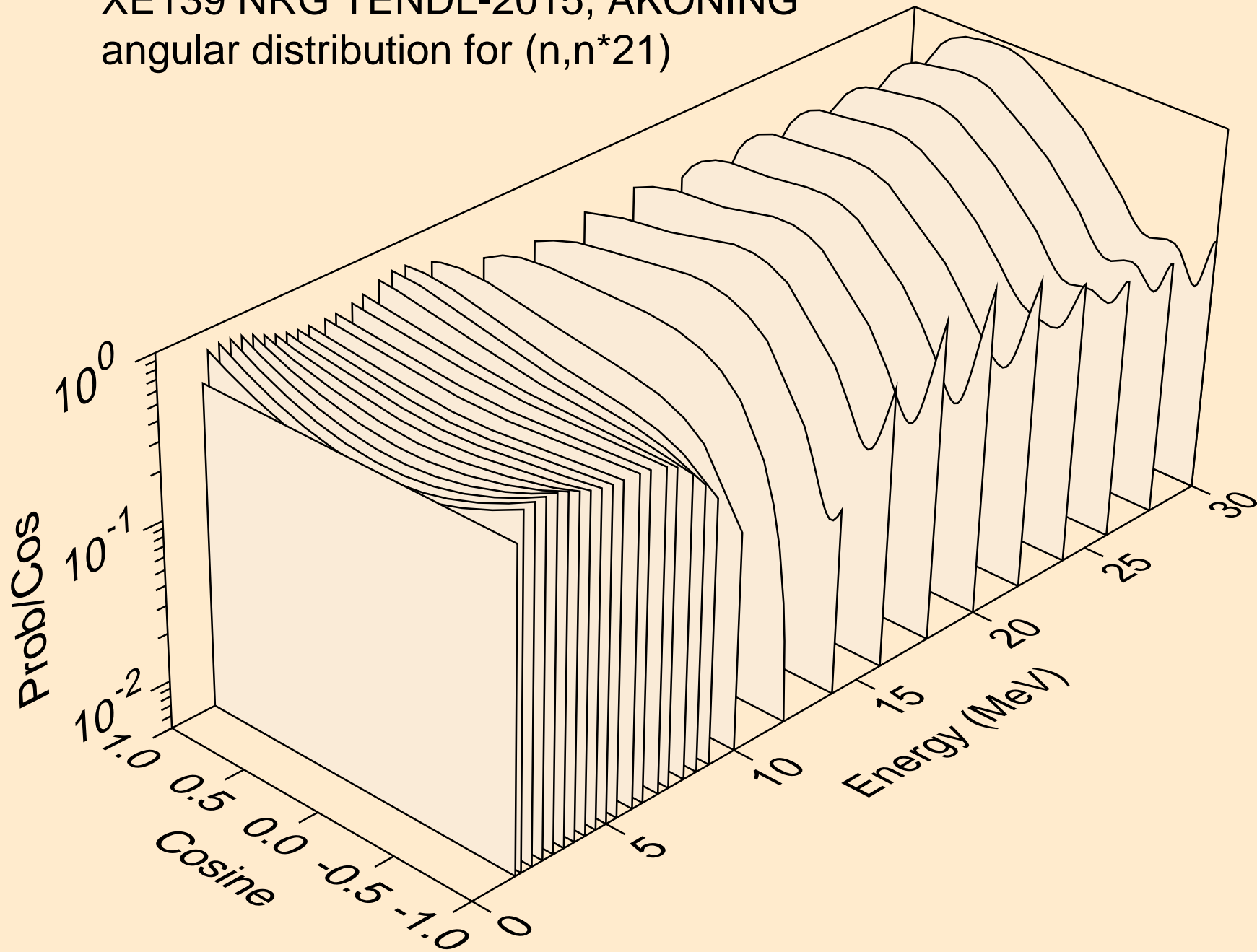
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*19)



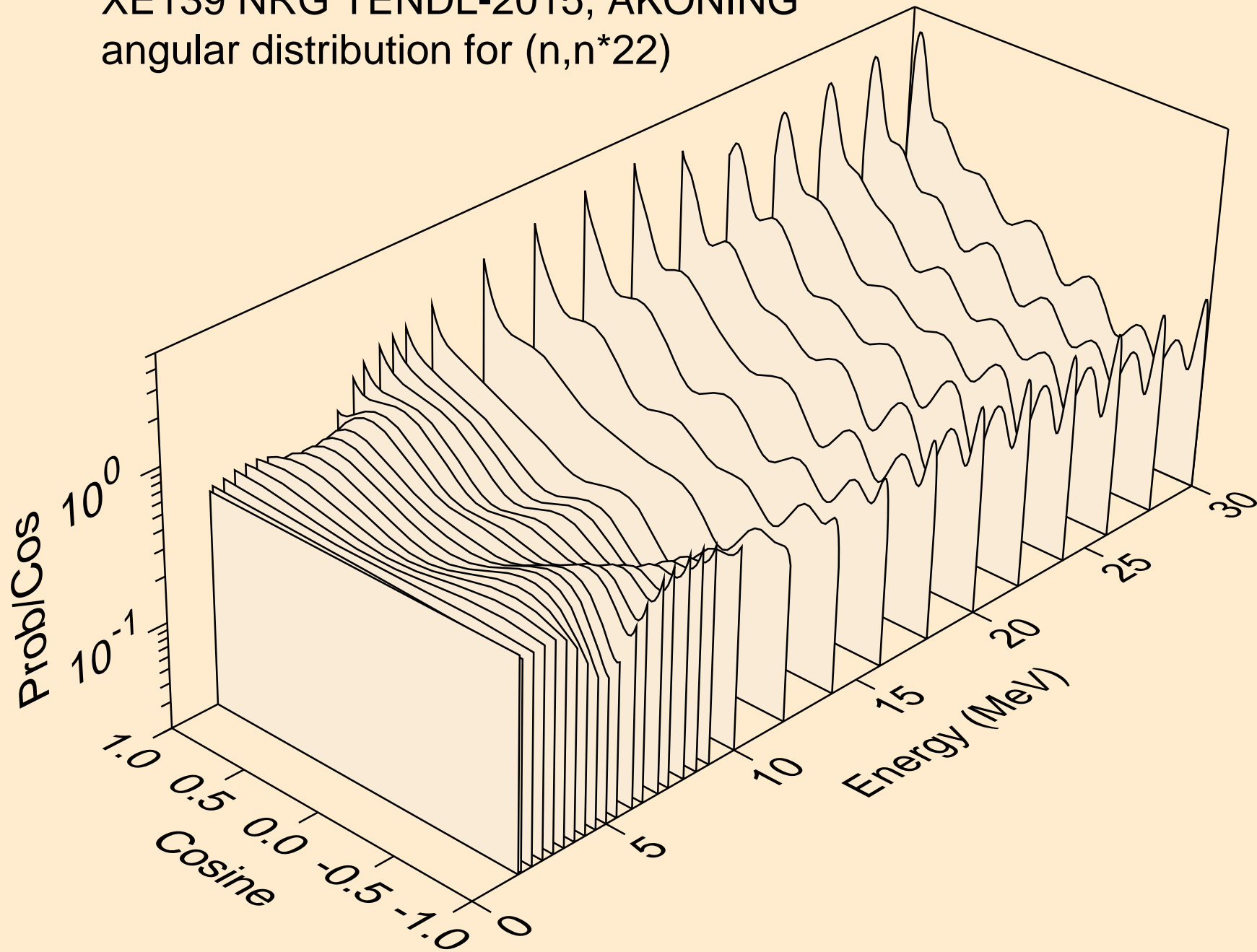
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*20)



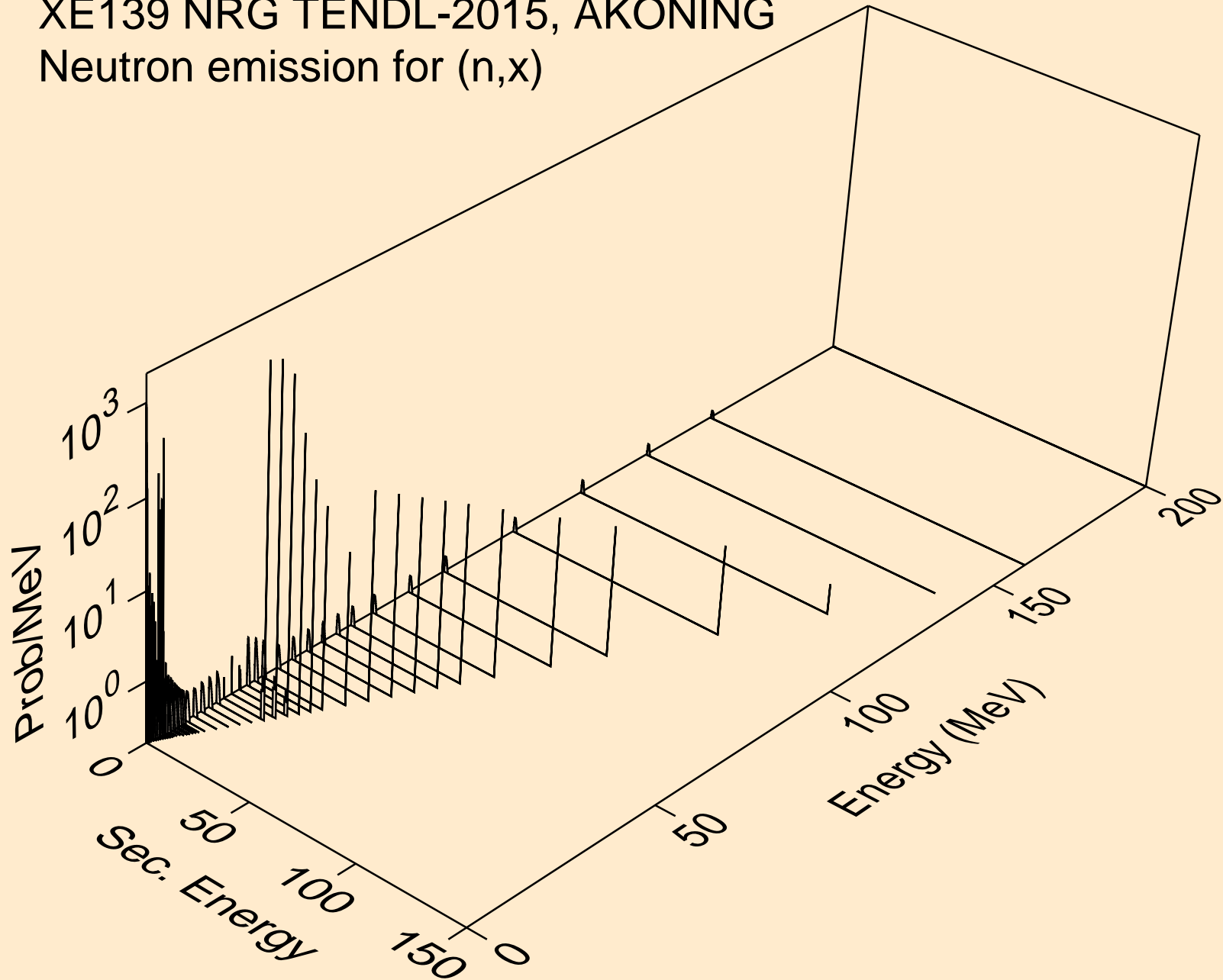
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*21)



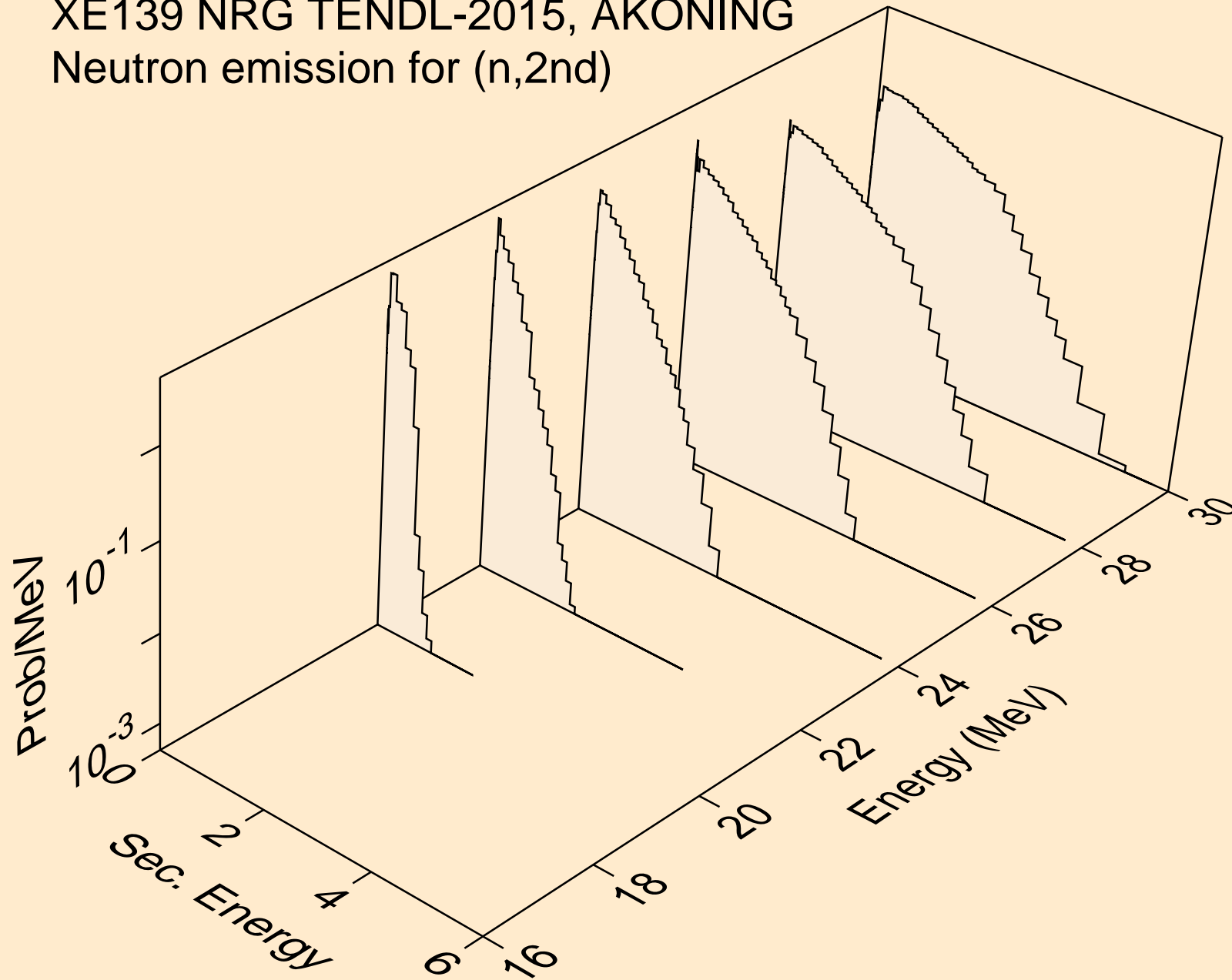
XE139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*22)



XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,x)

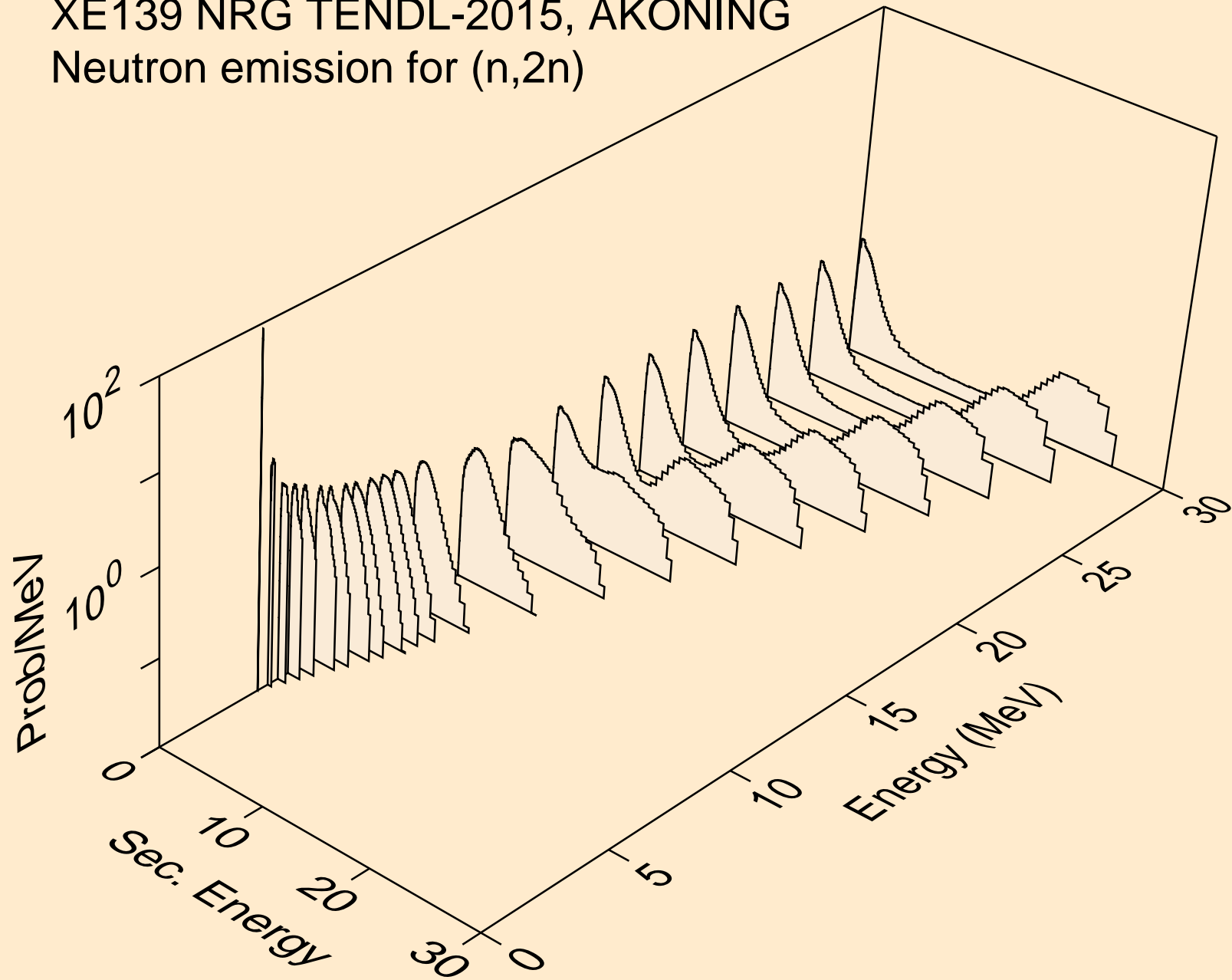


XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2nd)

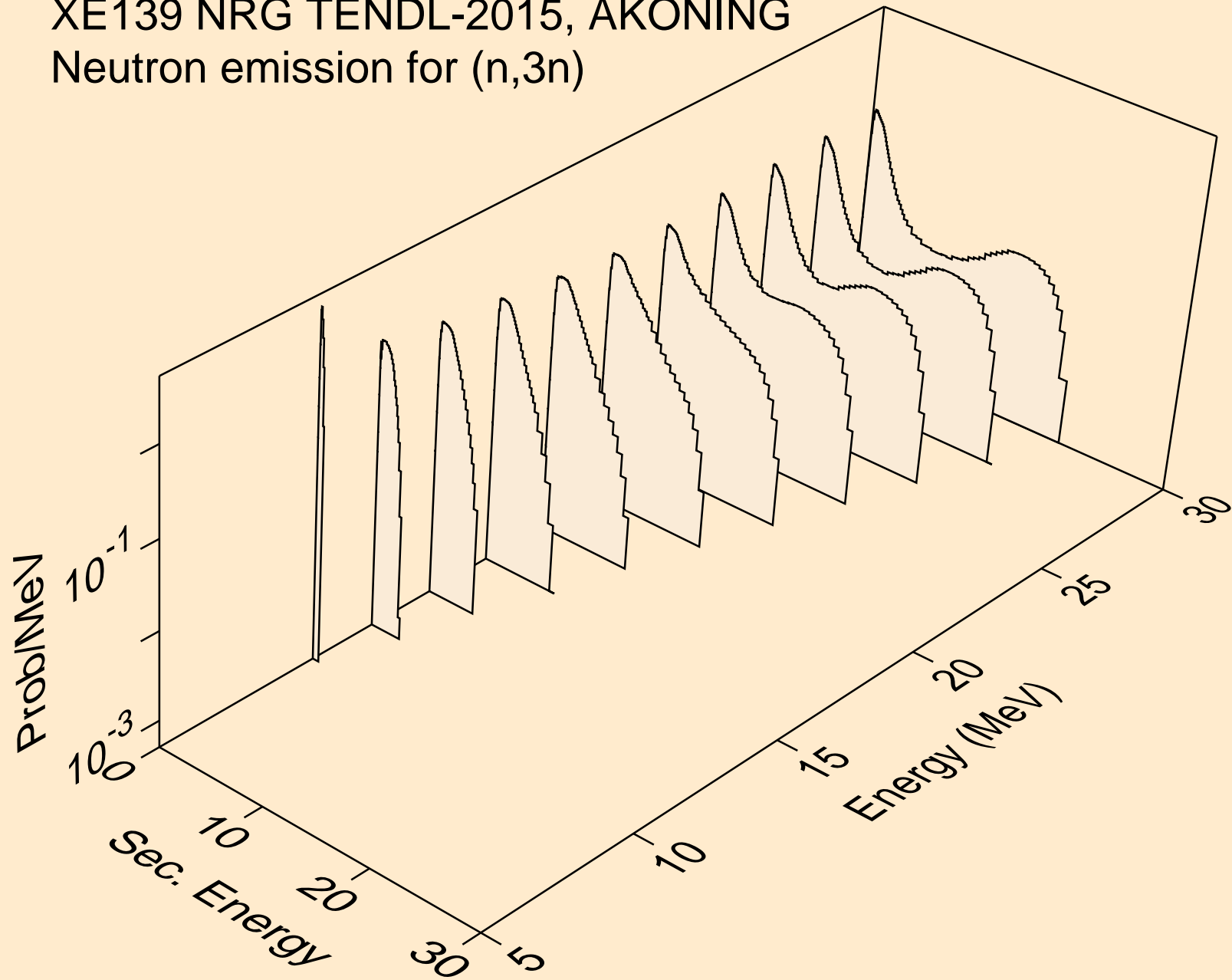




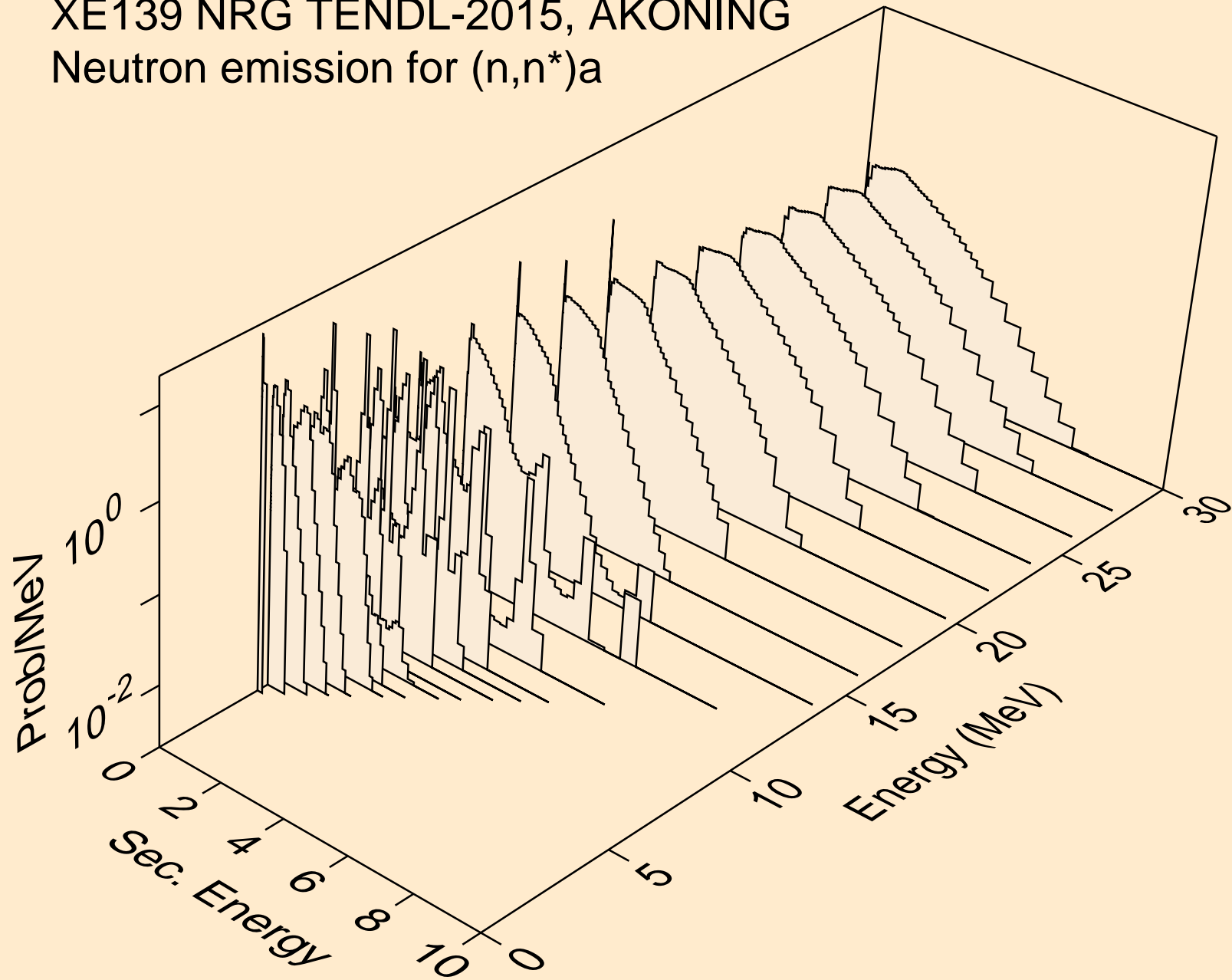
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)



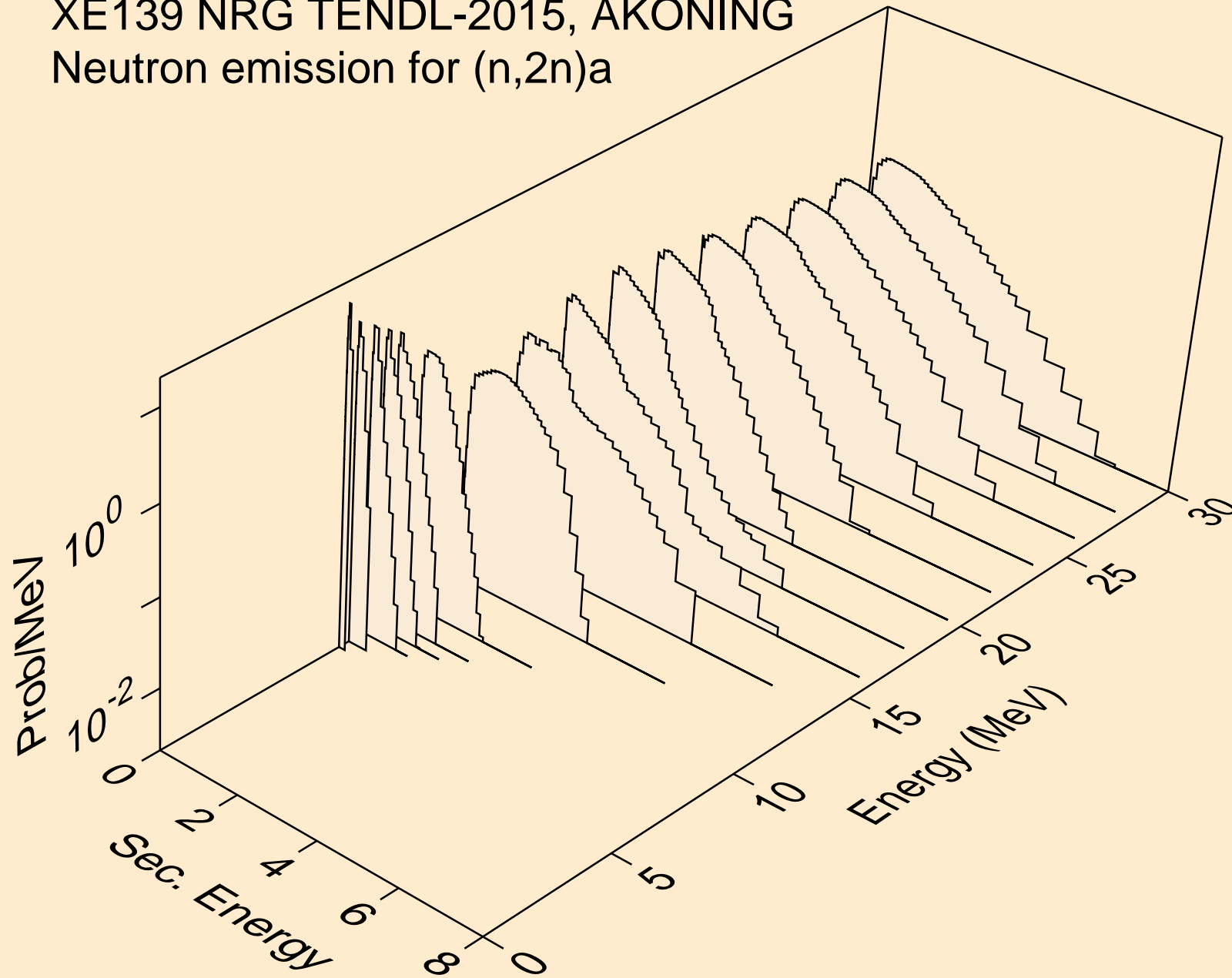
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)



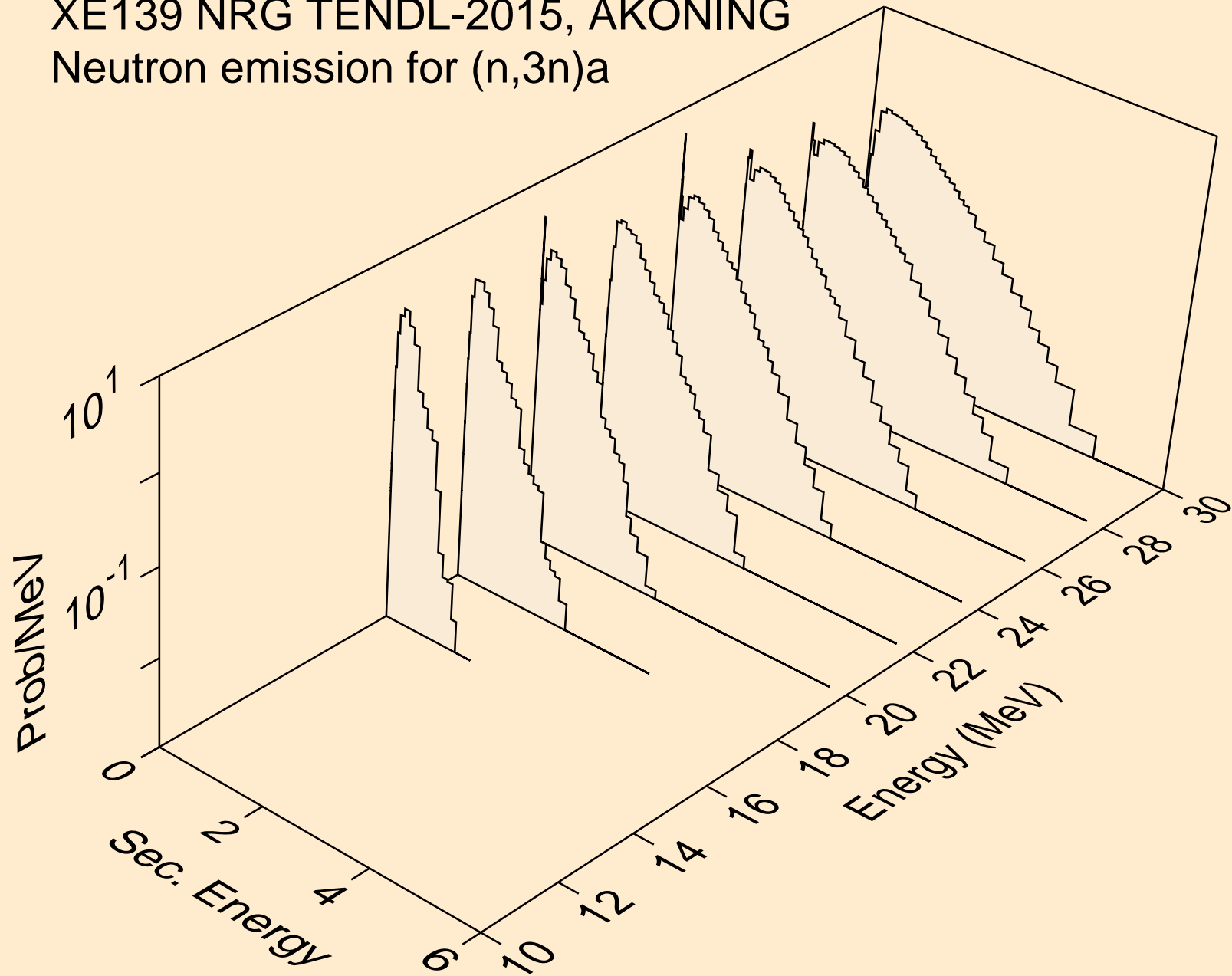
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)a



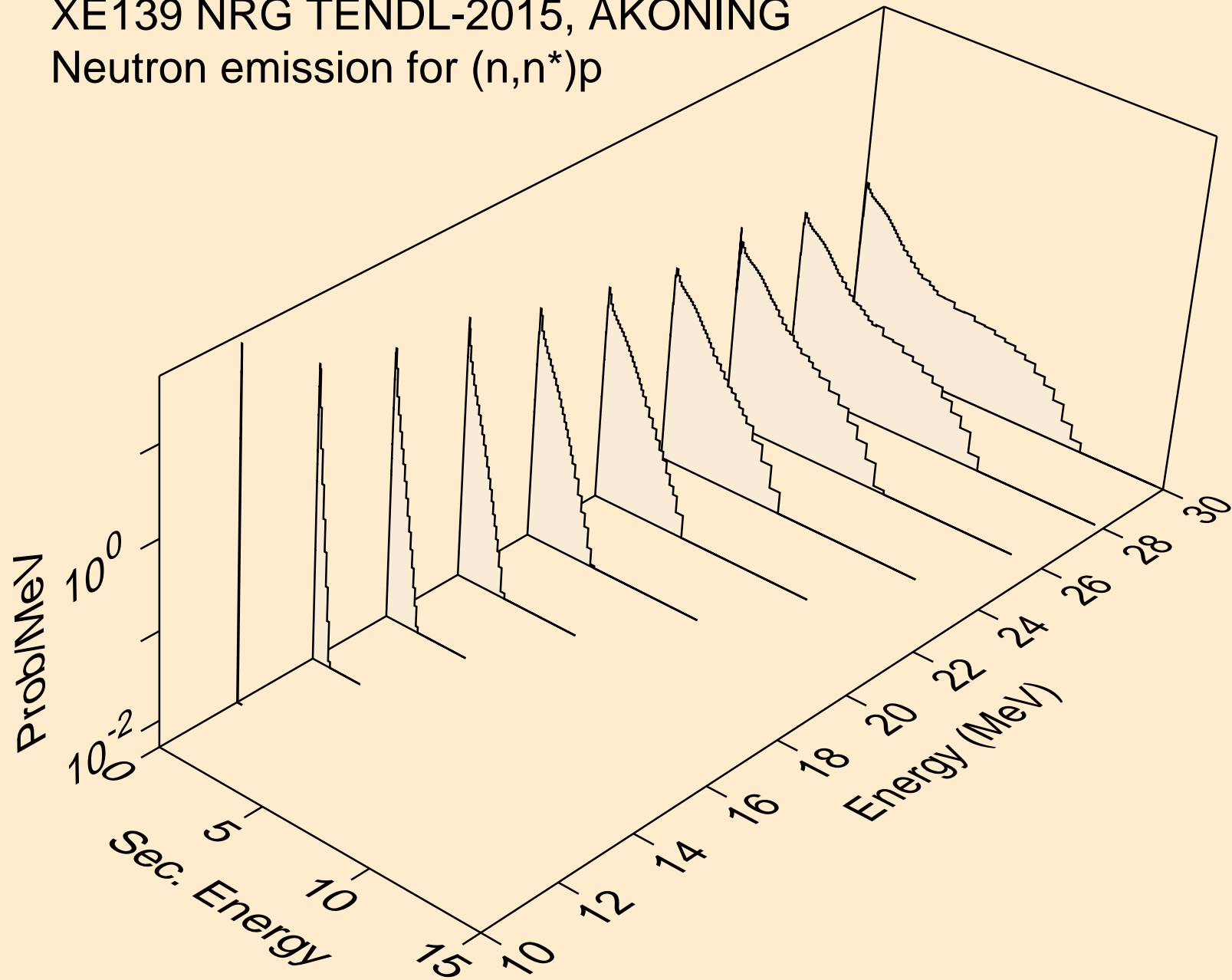
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)a



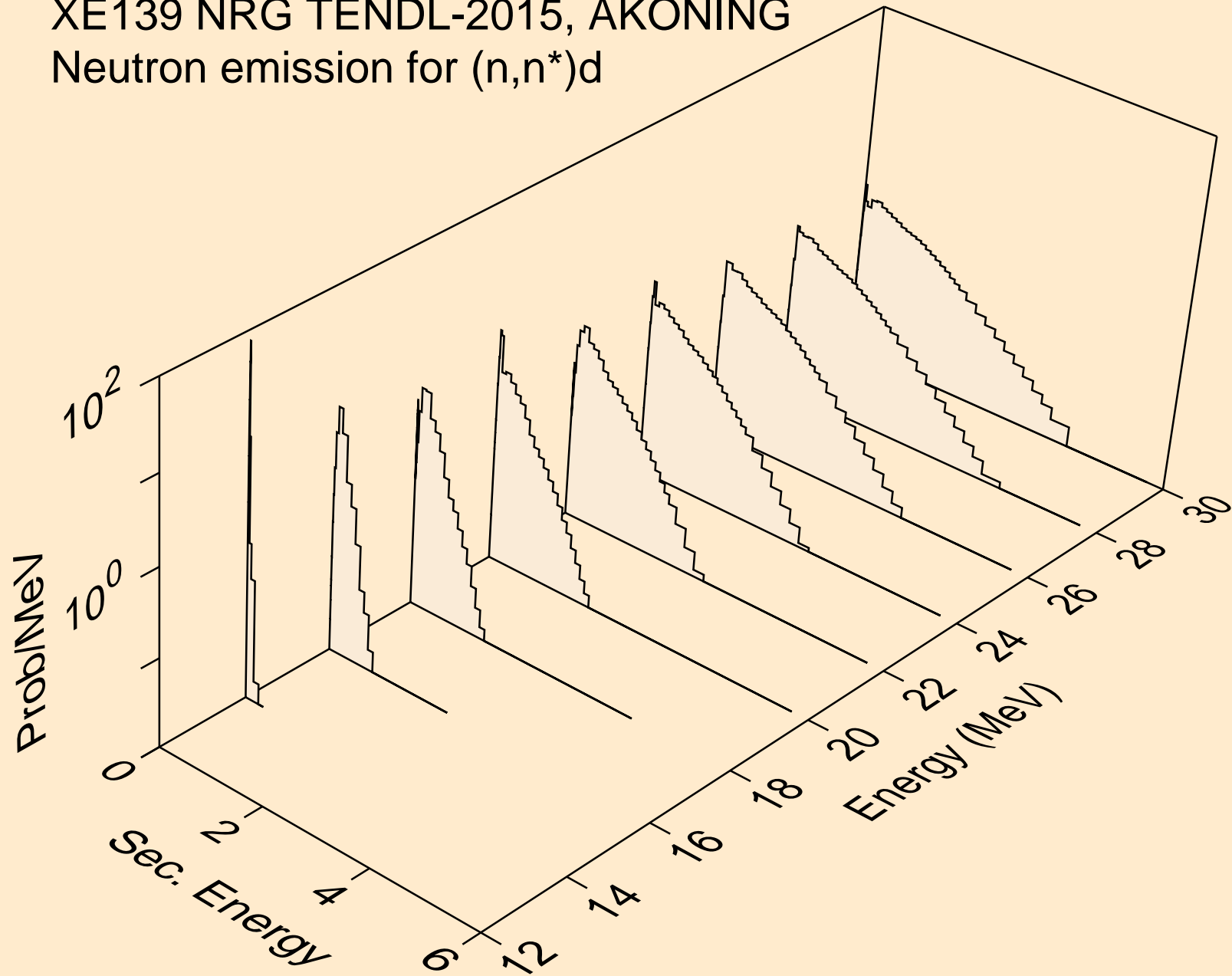
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)a



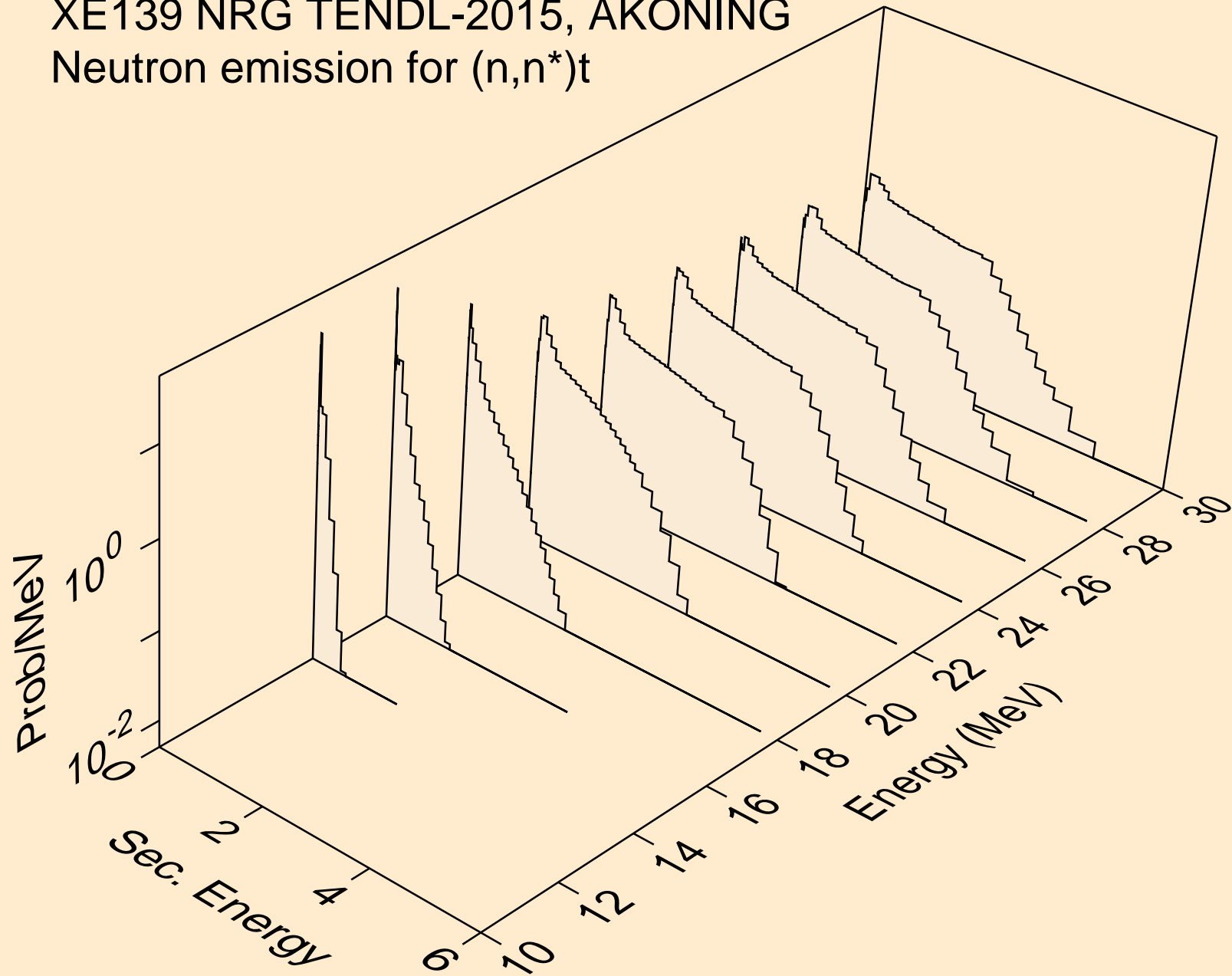
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)p



XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d

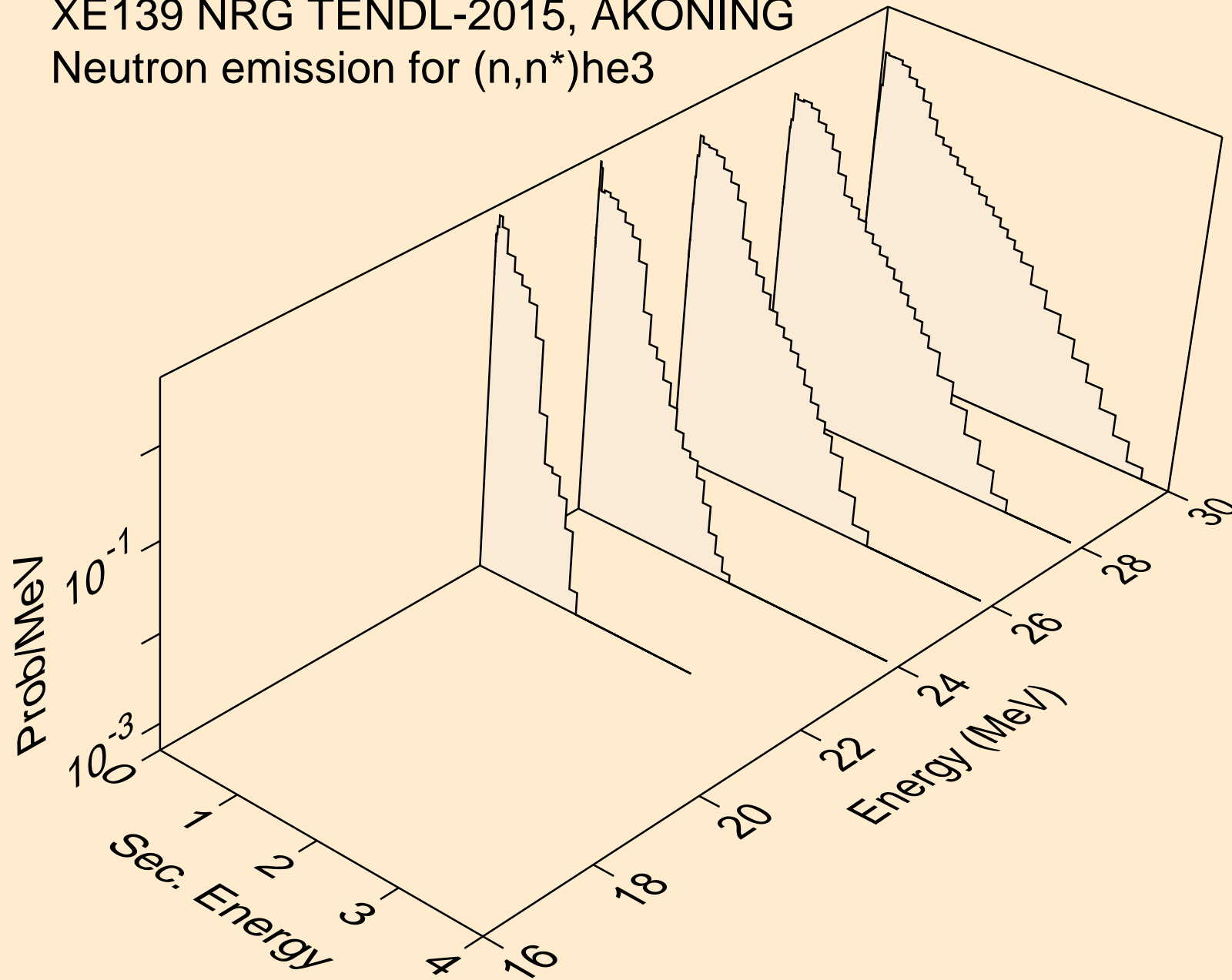


XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t

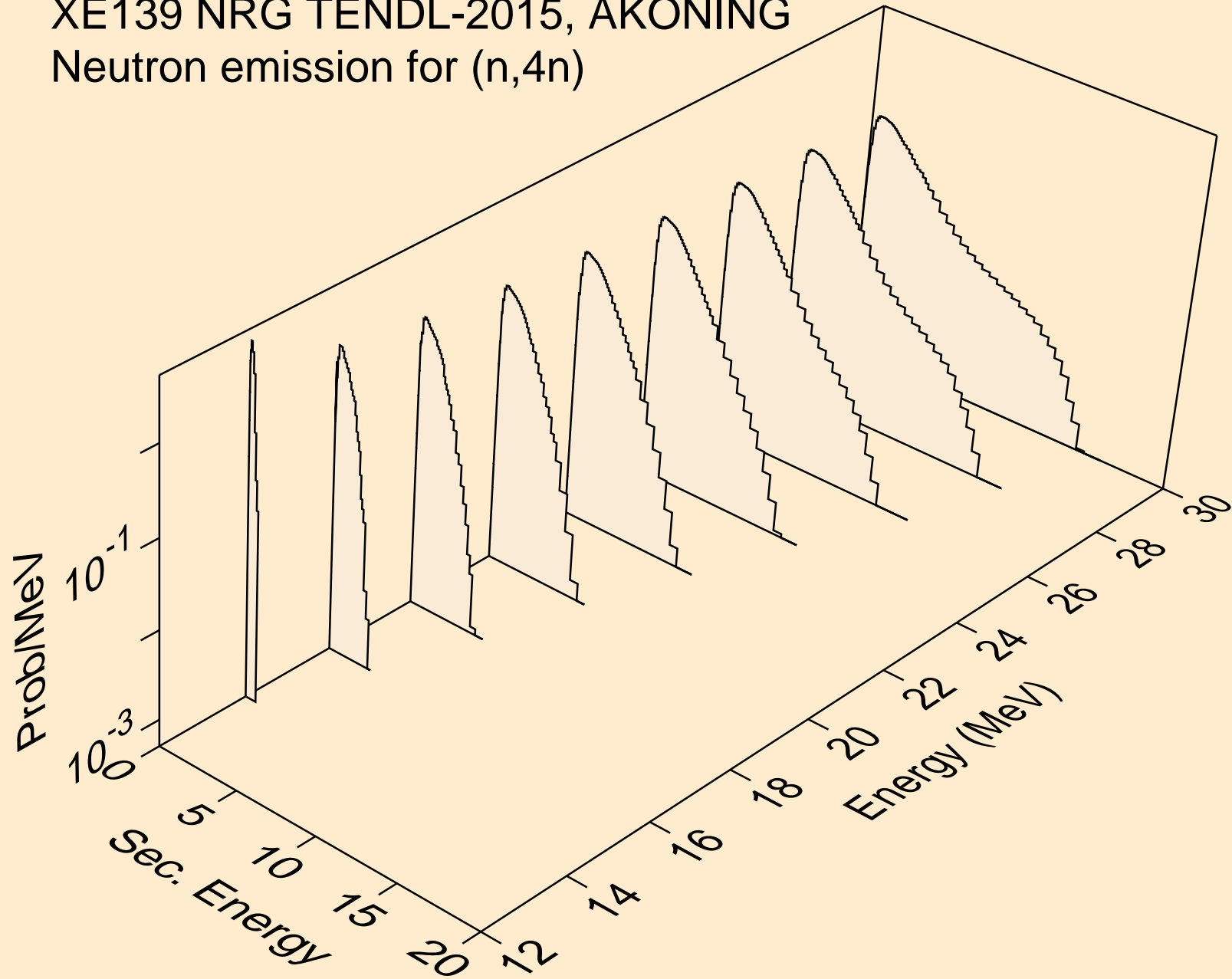




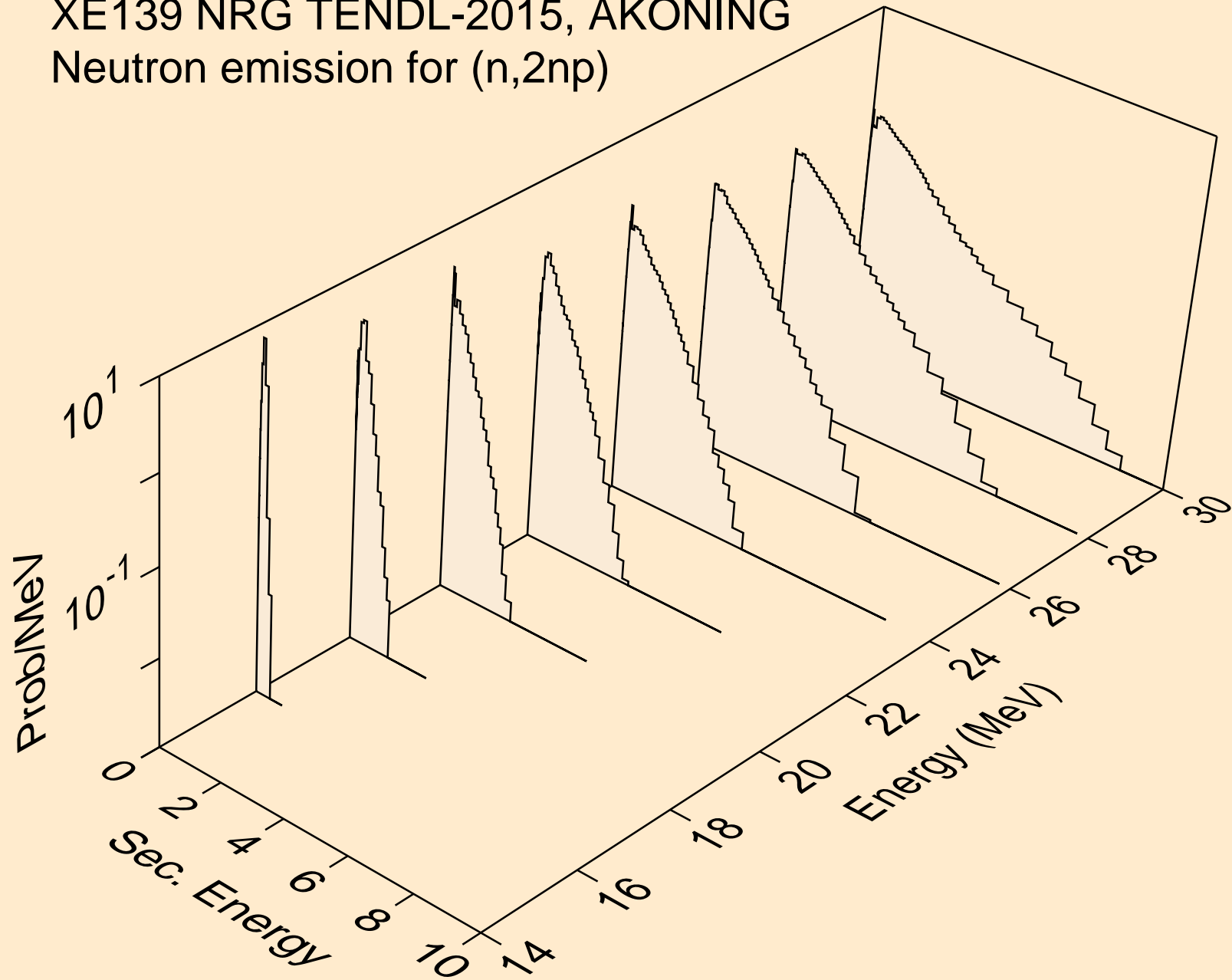
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)he3



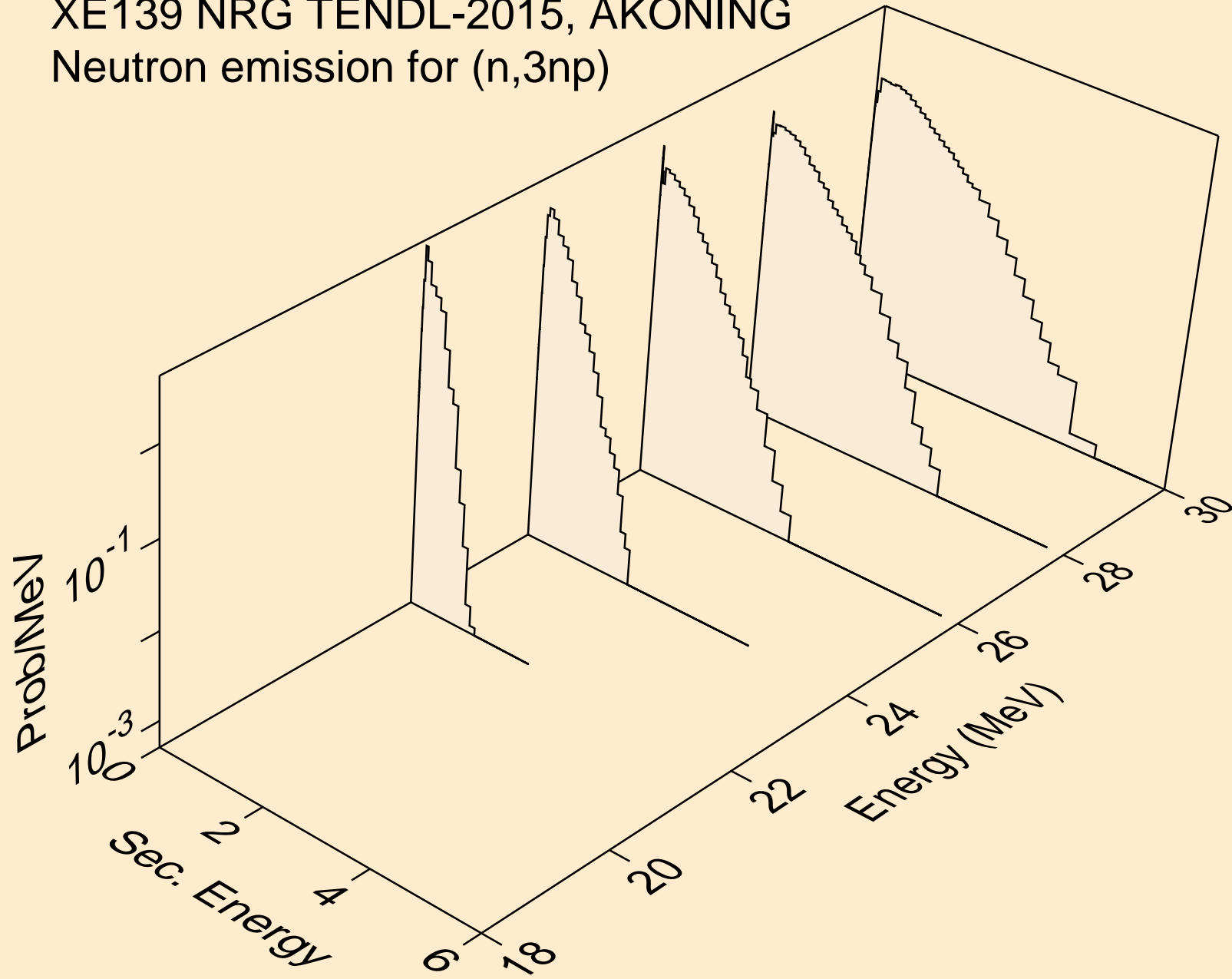
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,4n)



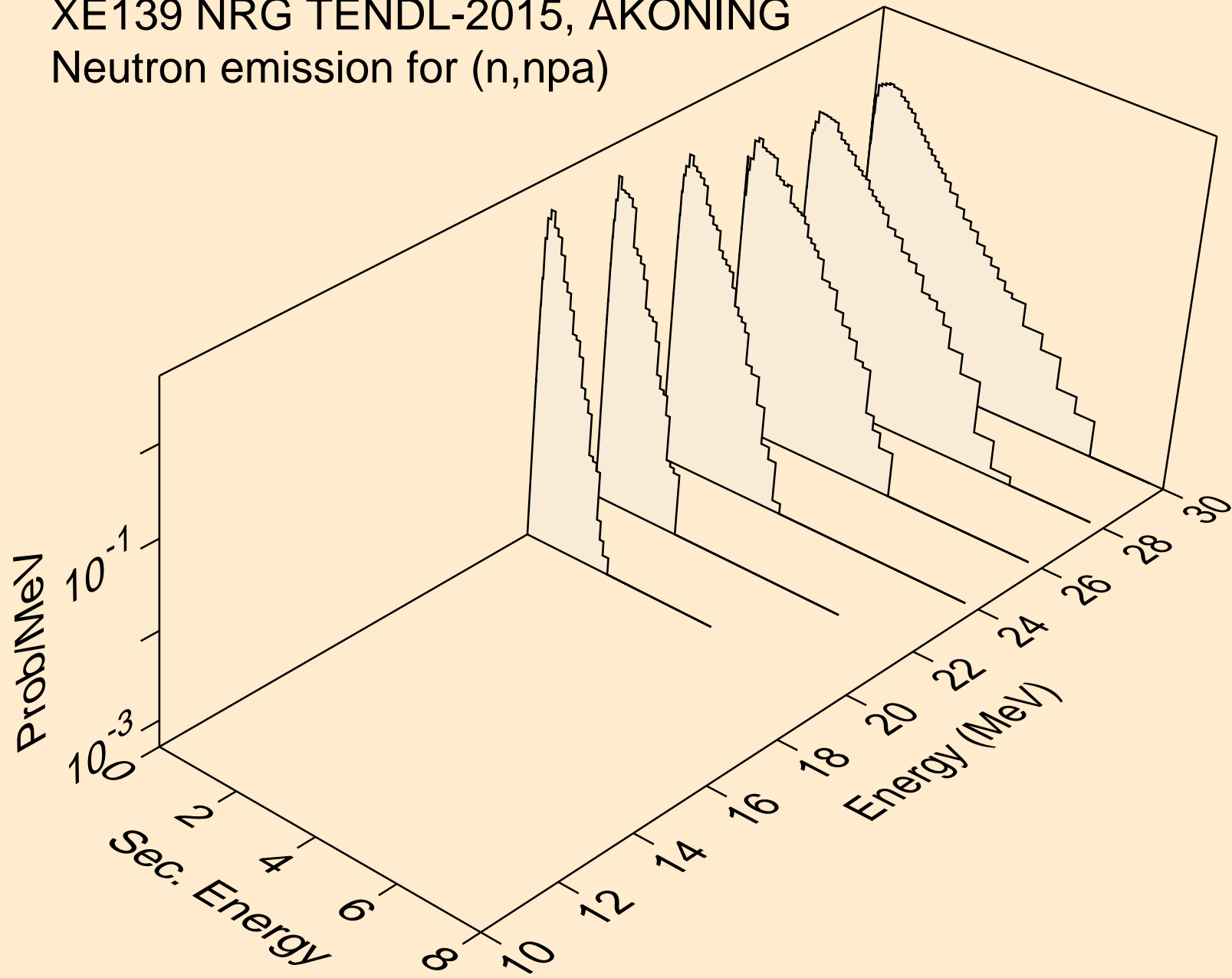
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



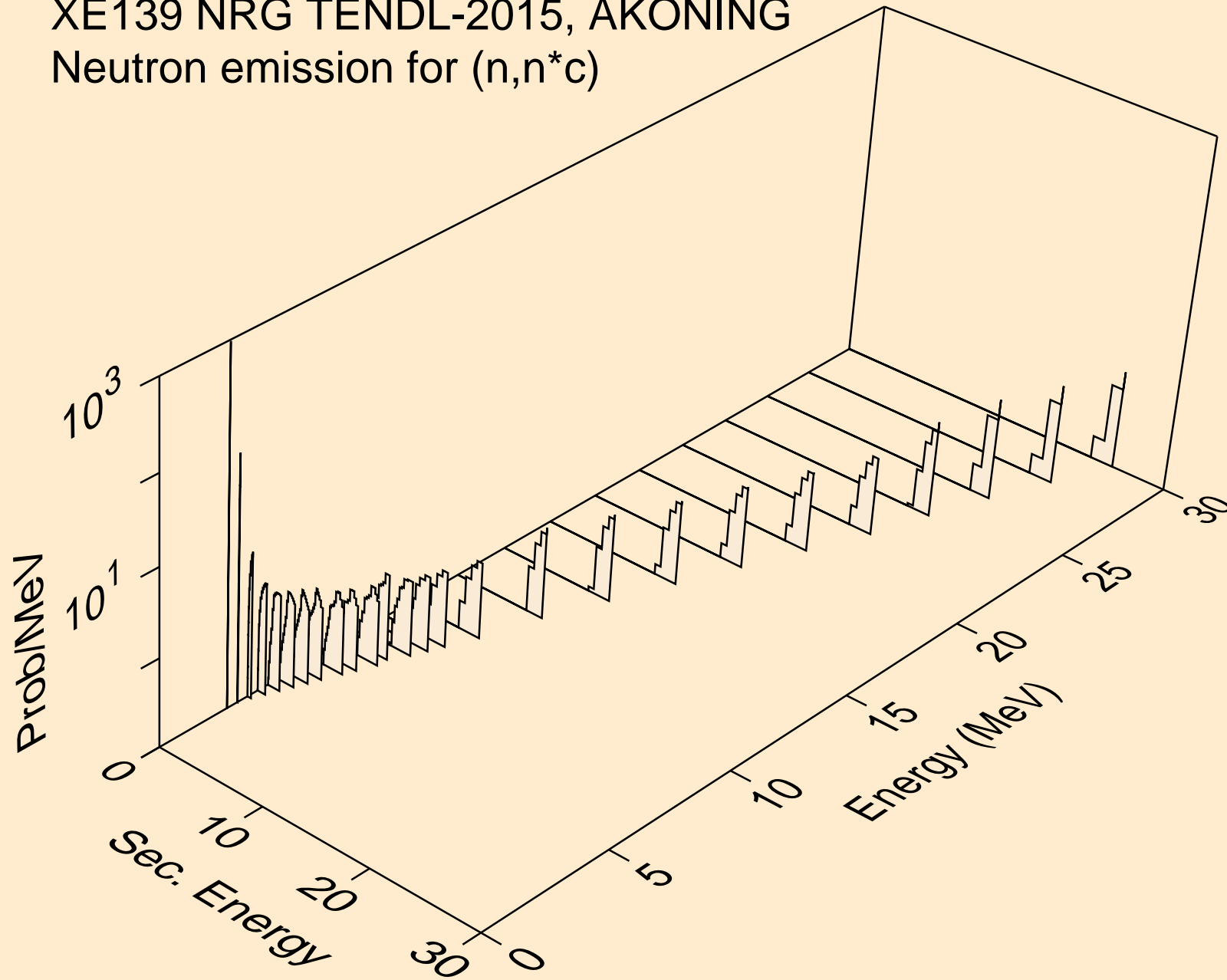
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,3np)



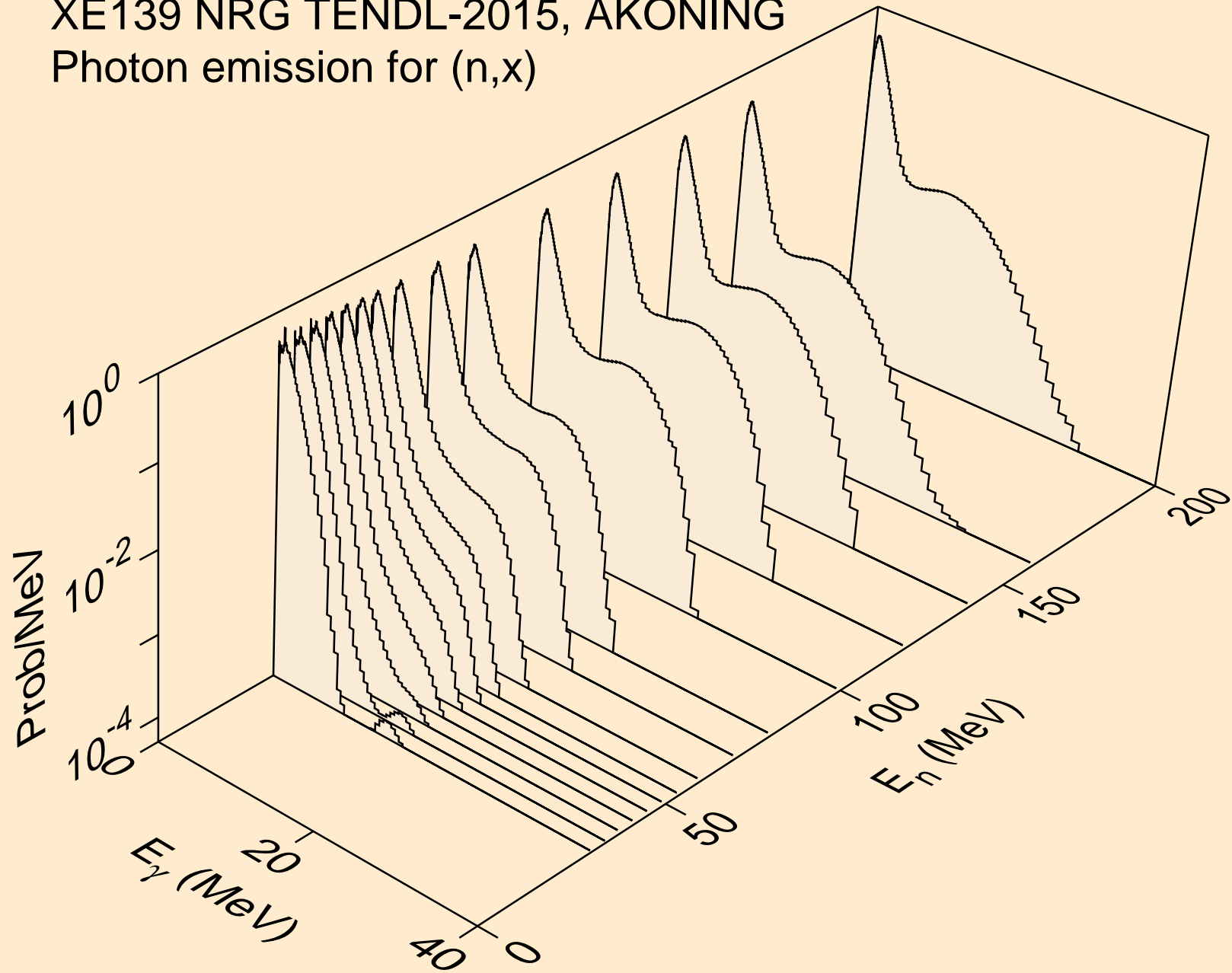
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,npa)



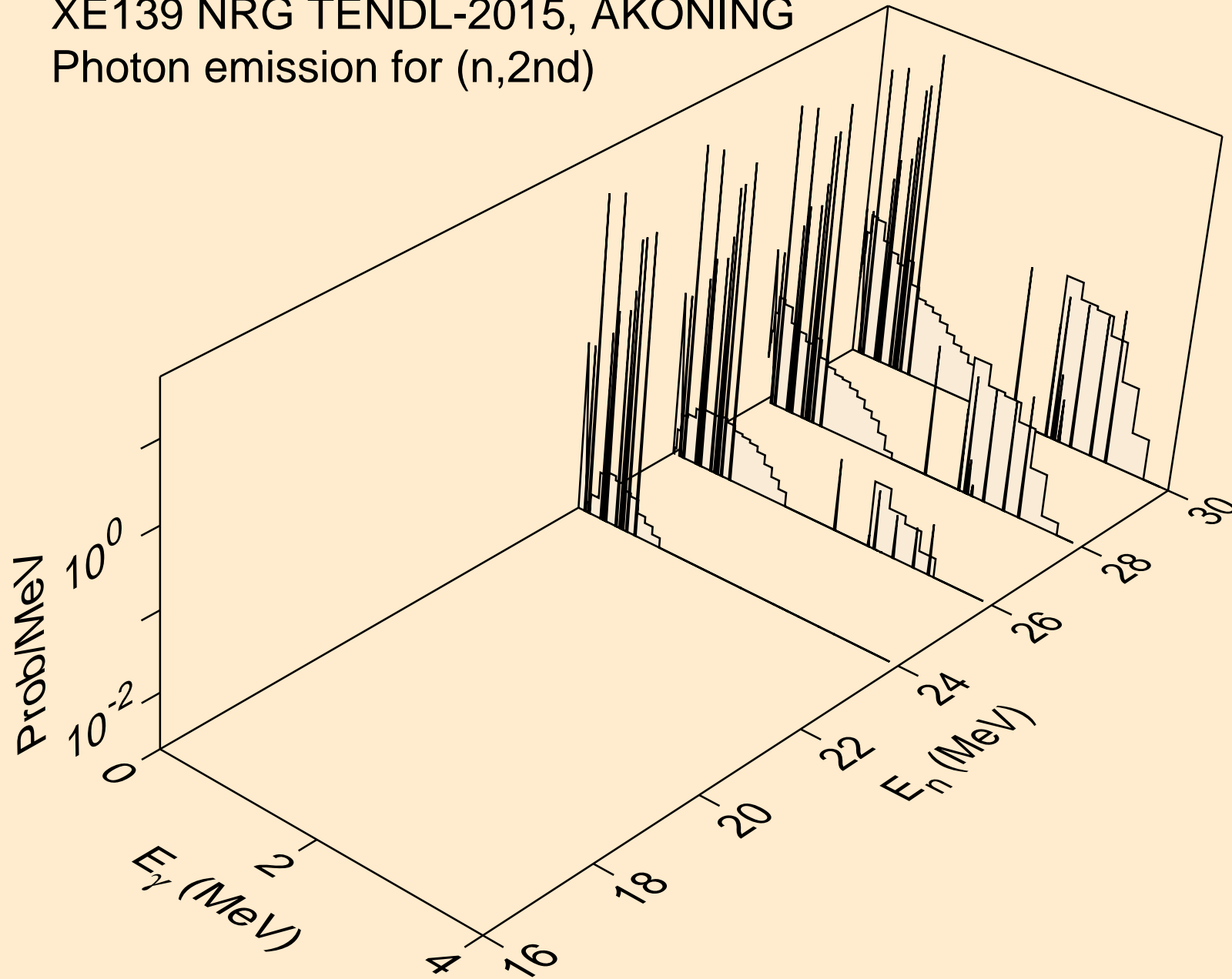
XE139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*c)



XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,x)

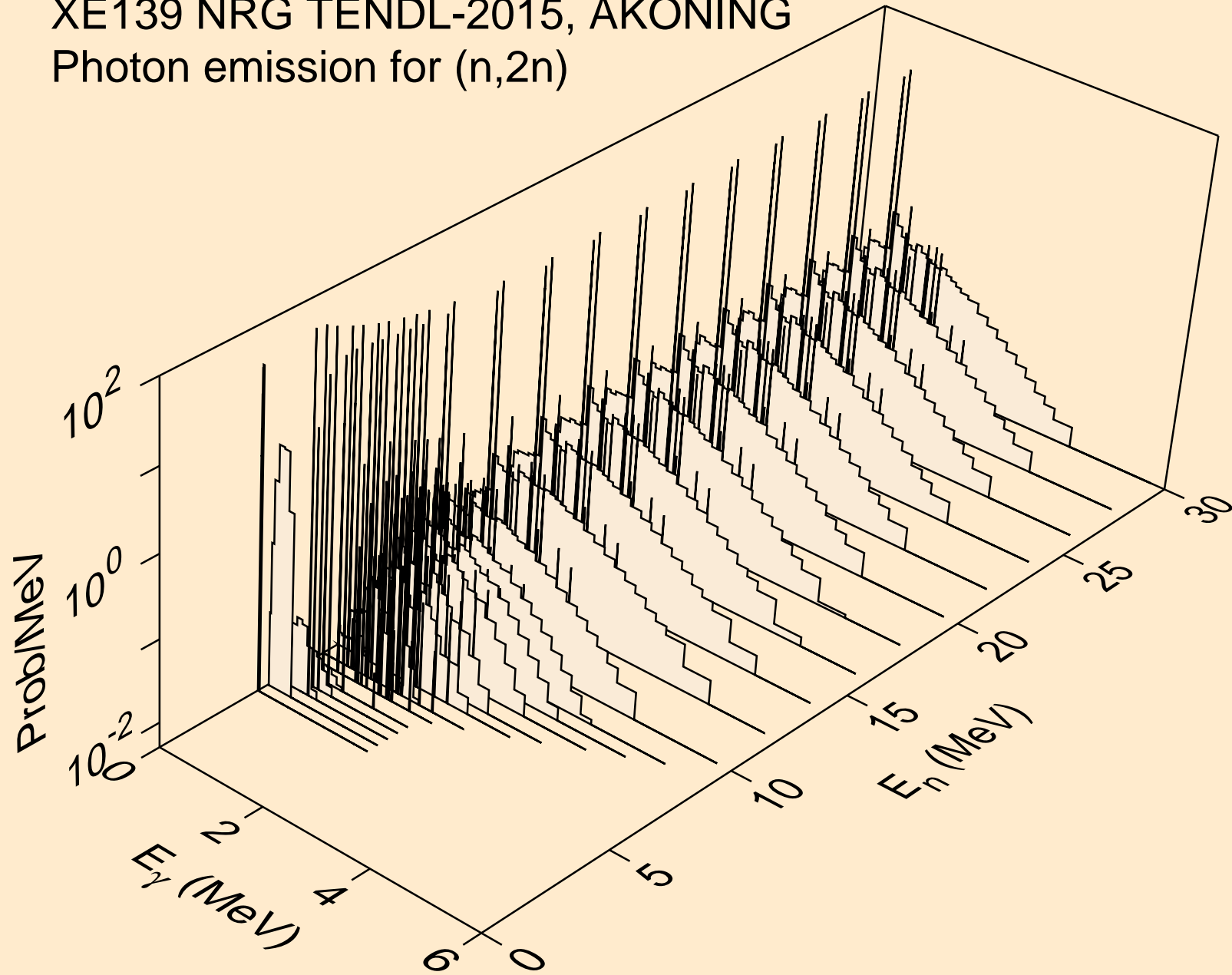


XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,2nd)

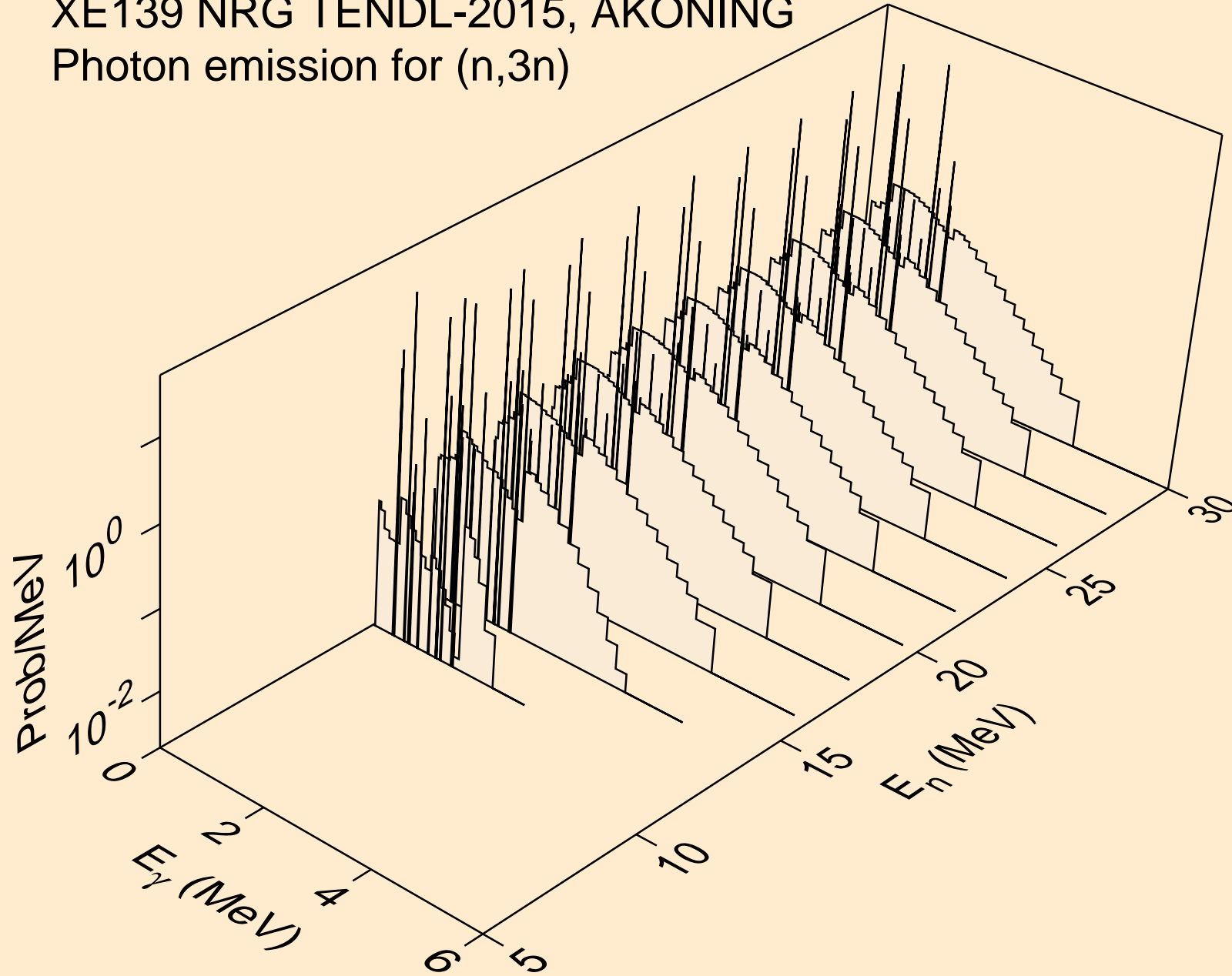




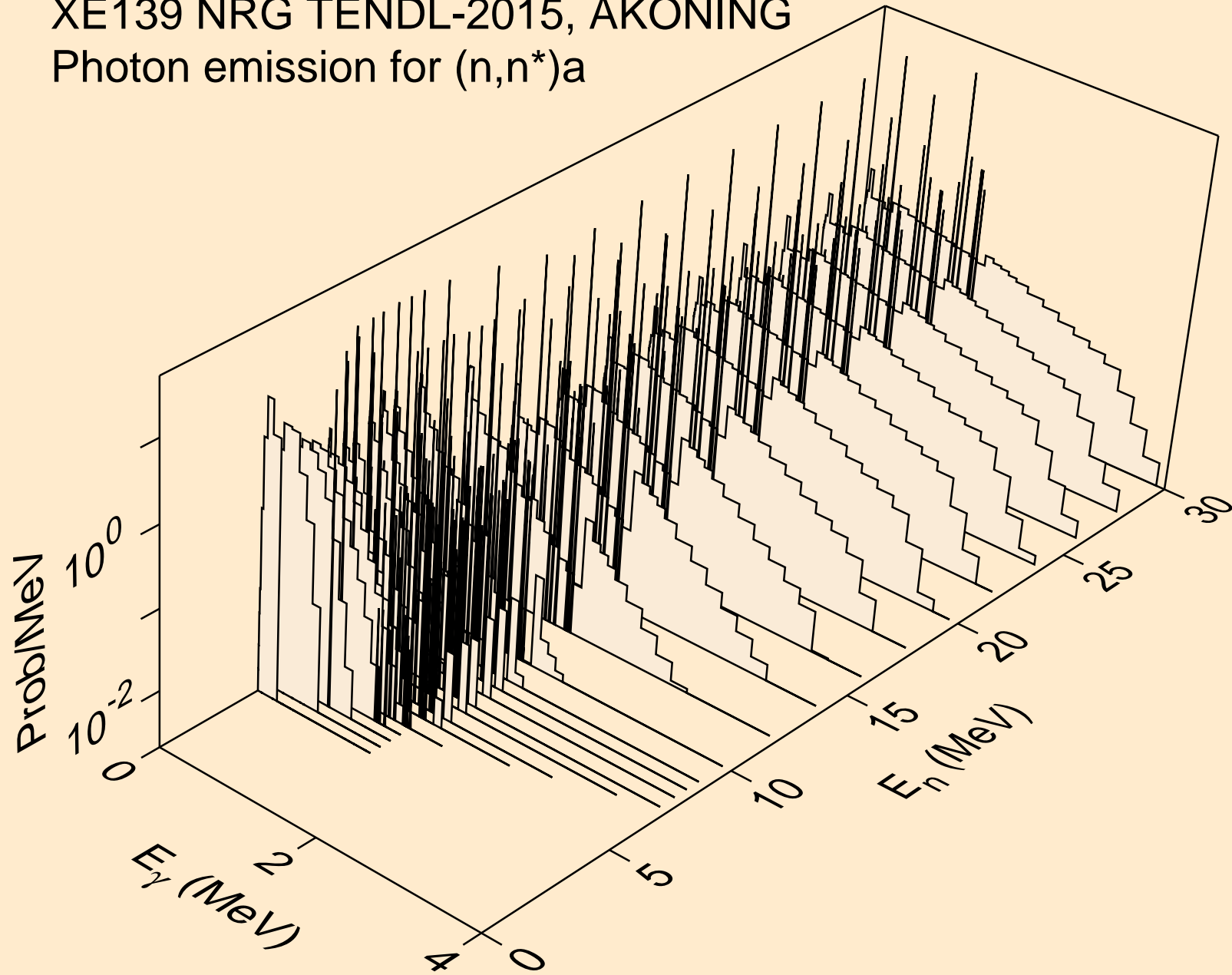
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)



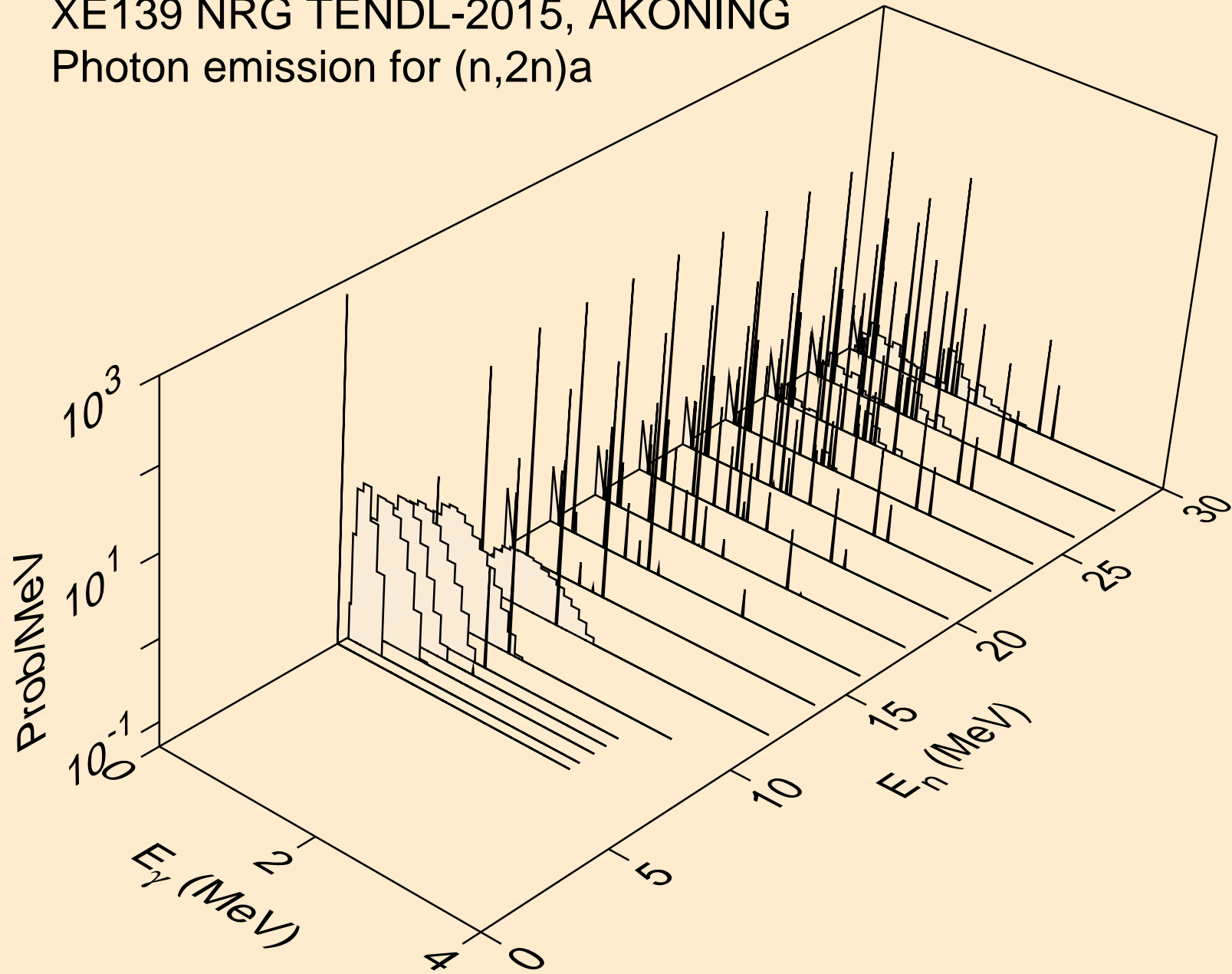
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)



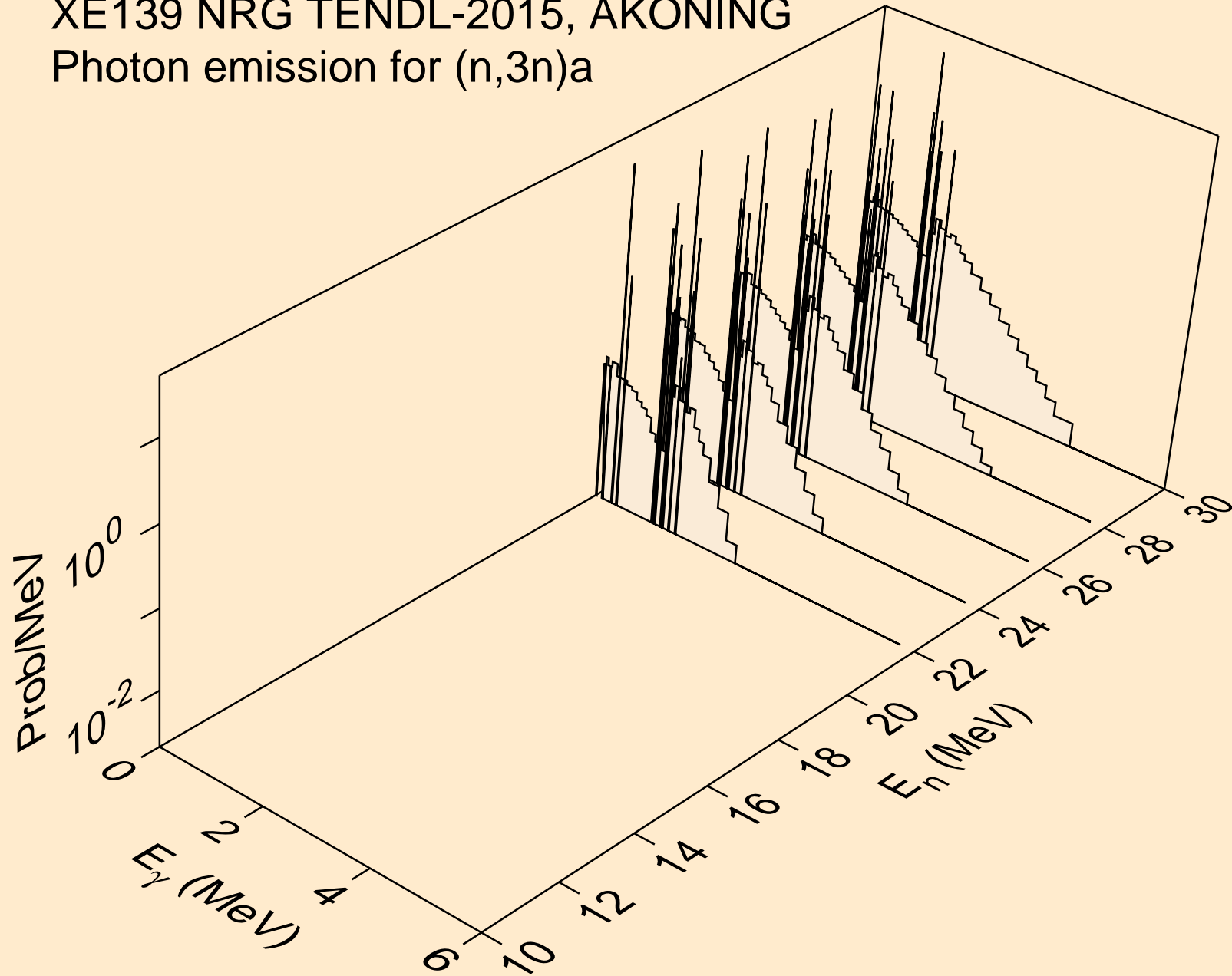
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)a



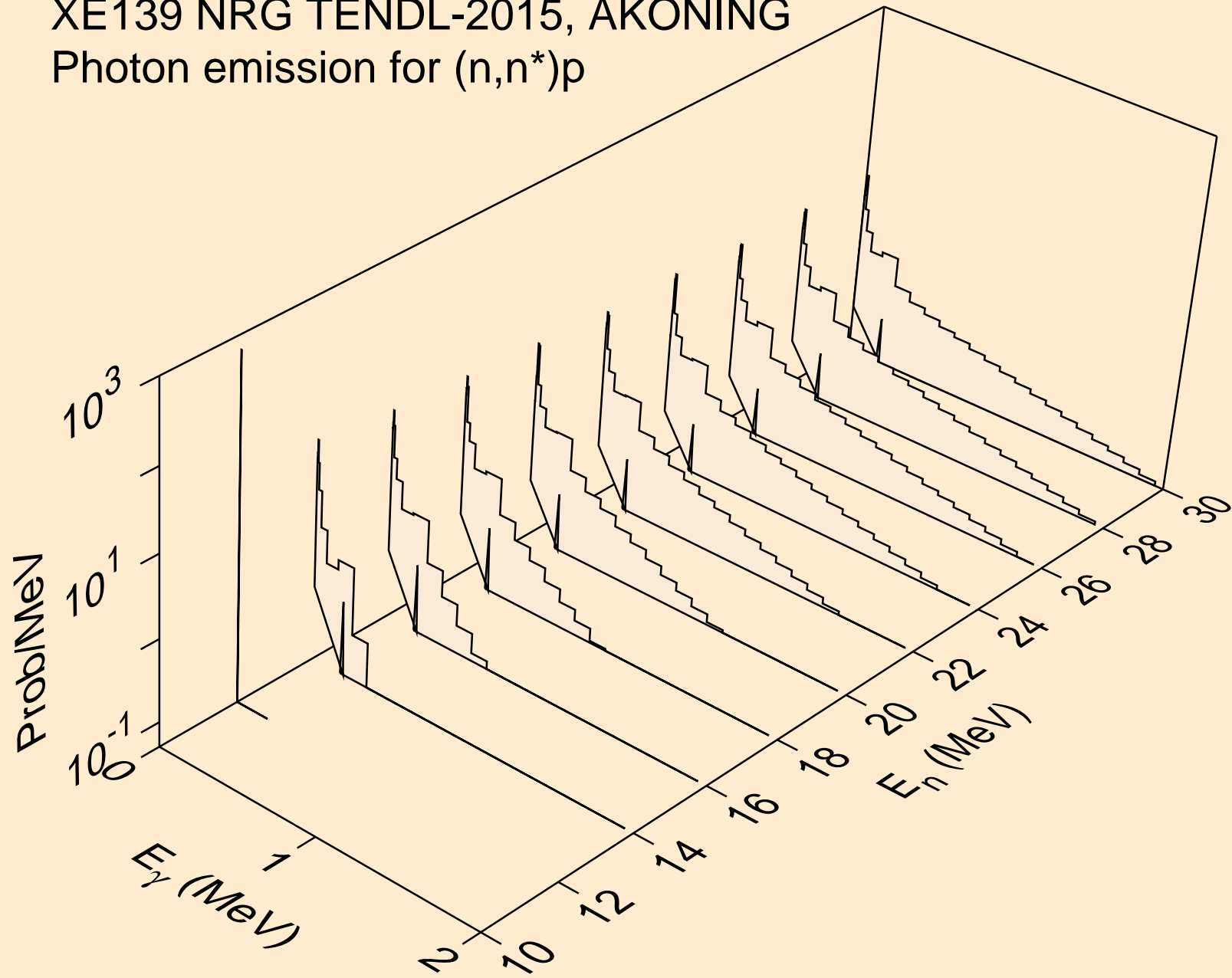
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)a



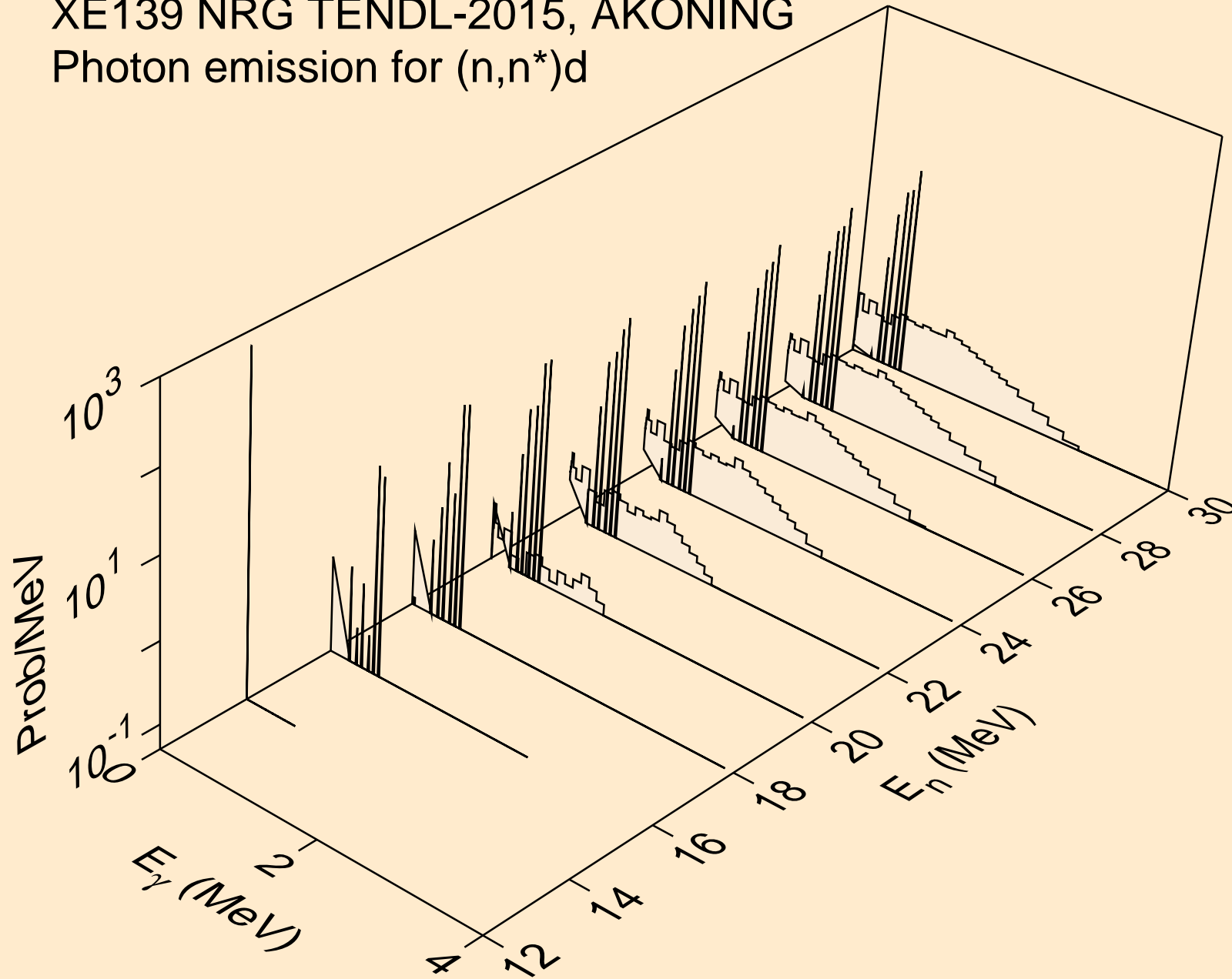
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)a



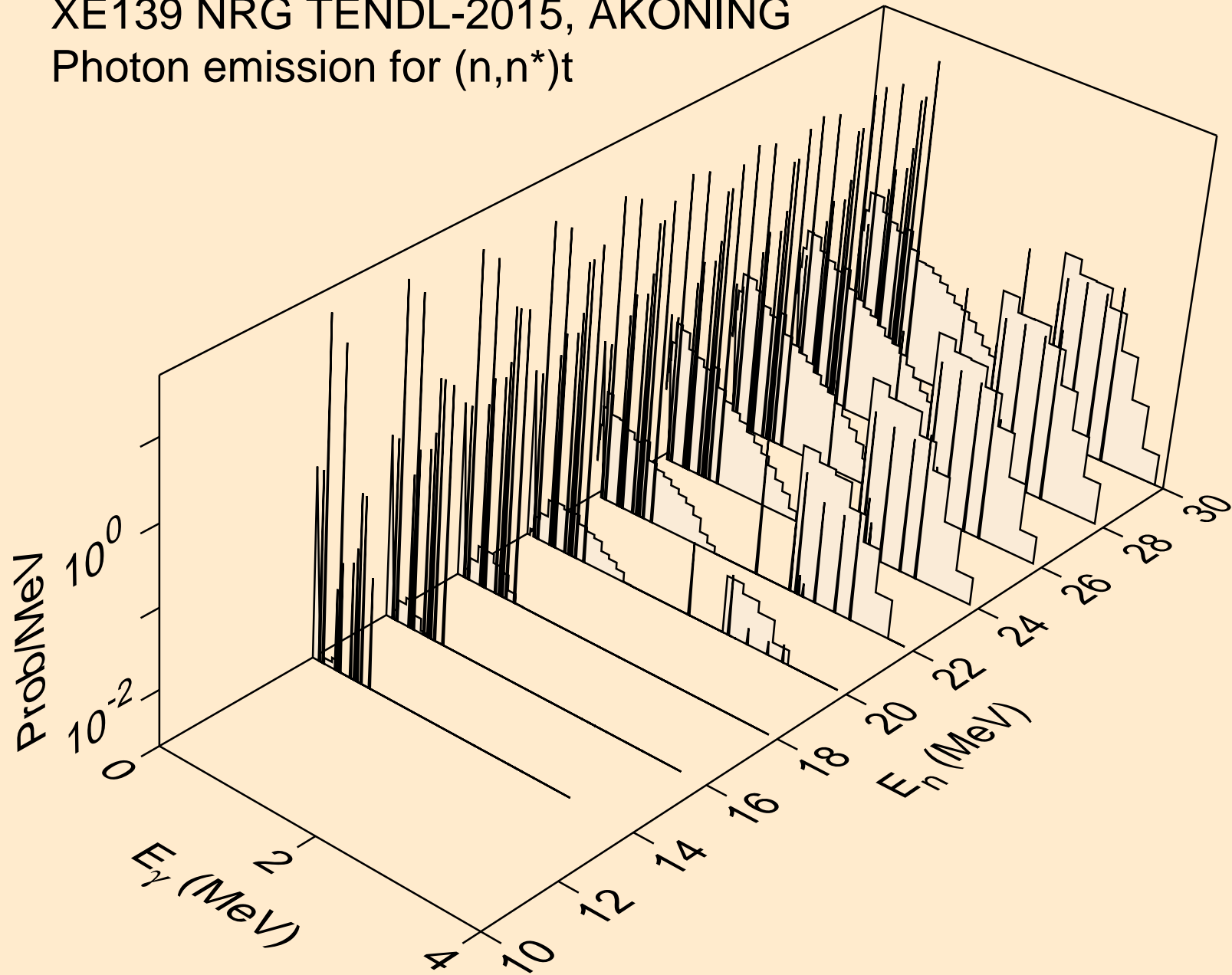
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)p



XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d

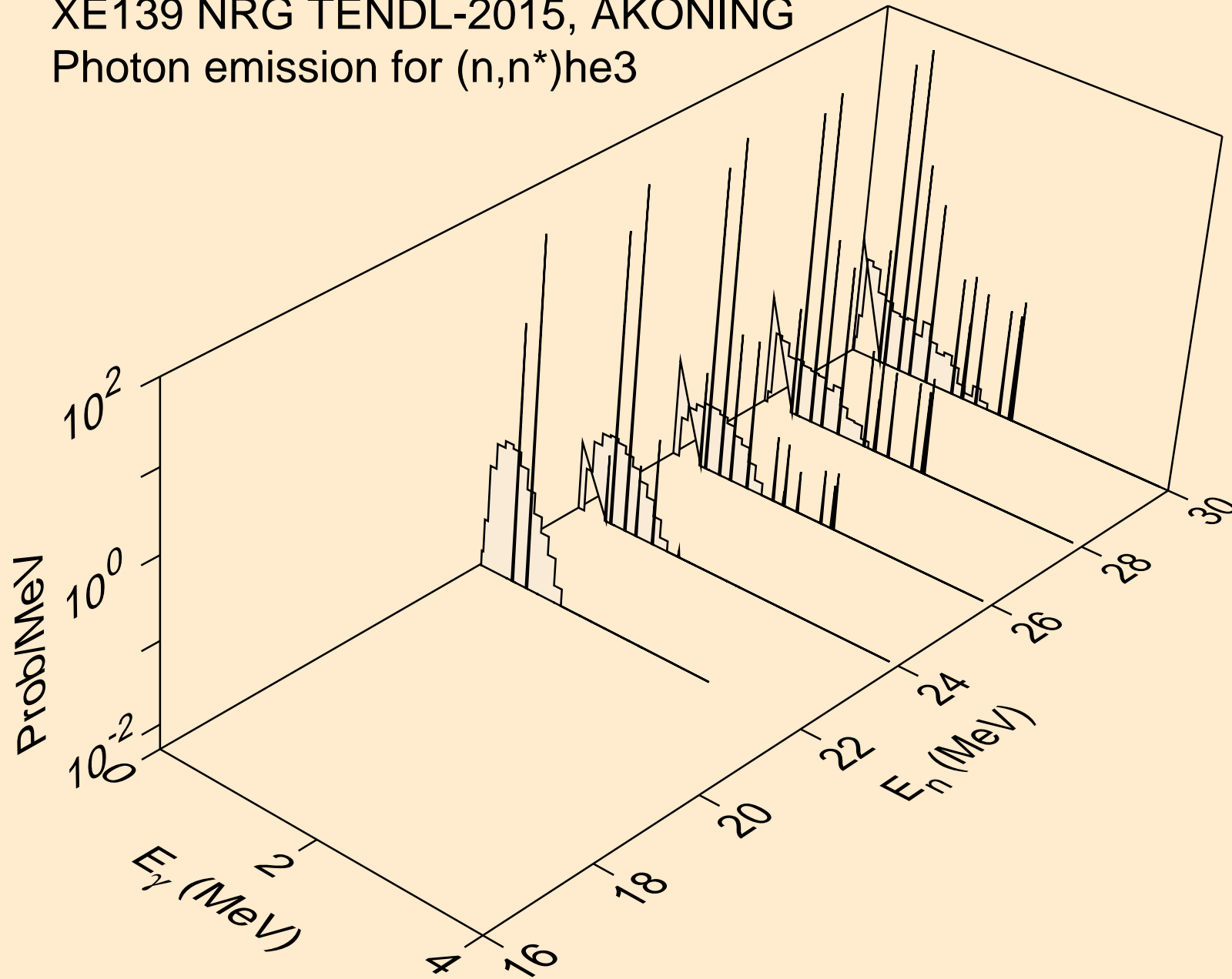


XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t

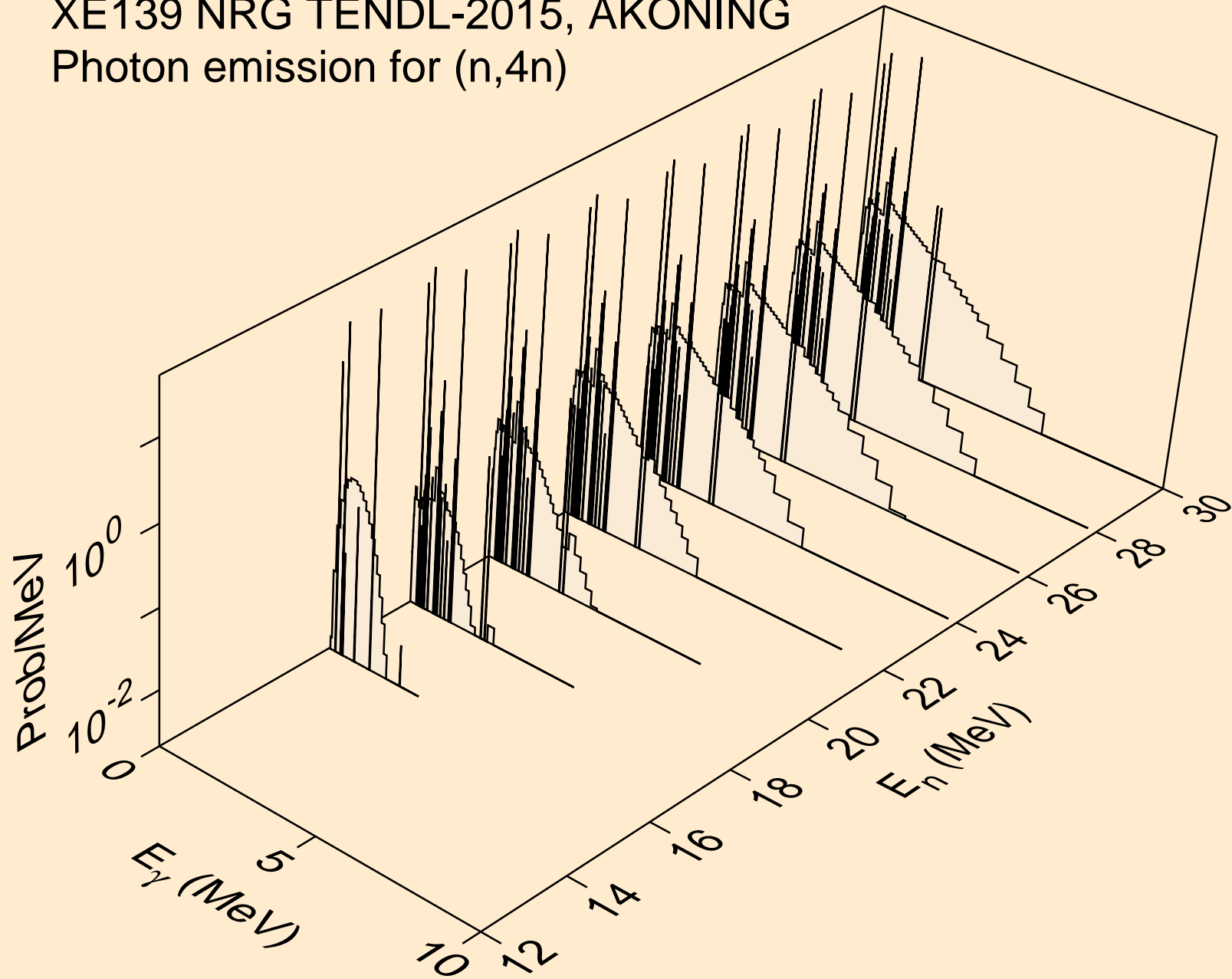




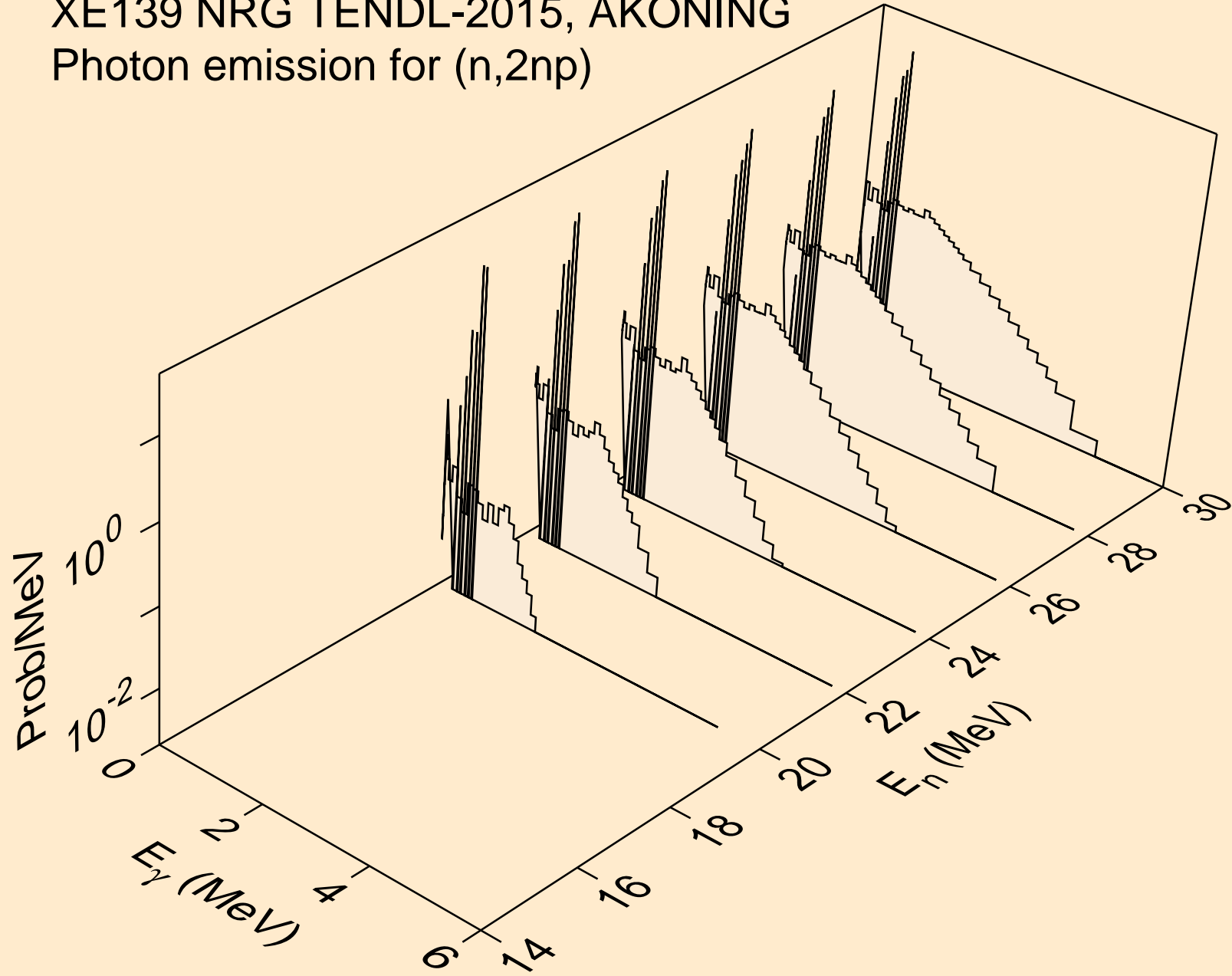
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)he3



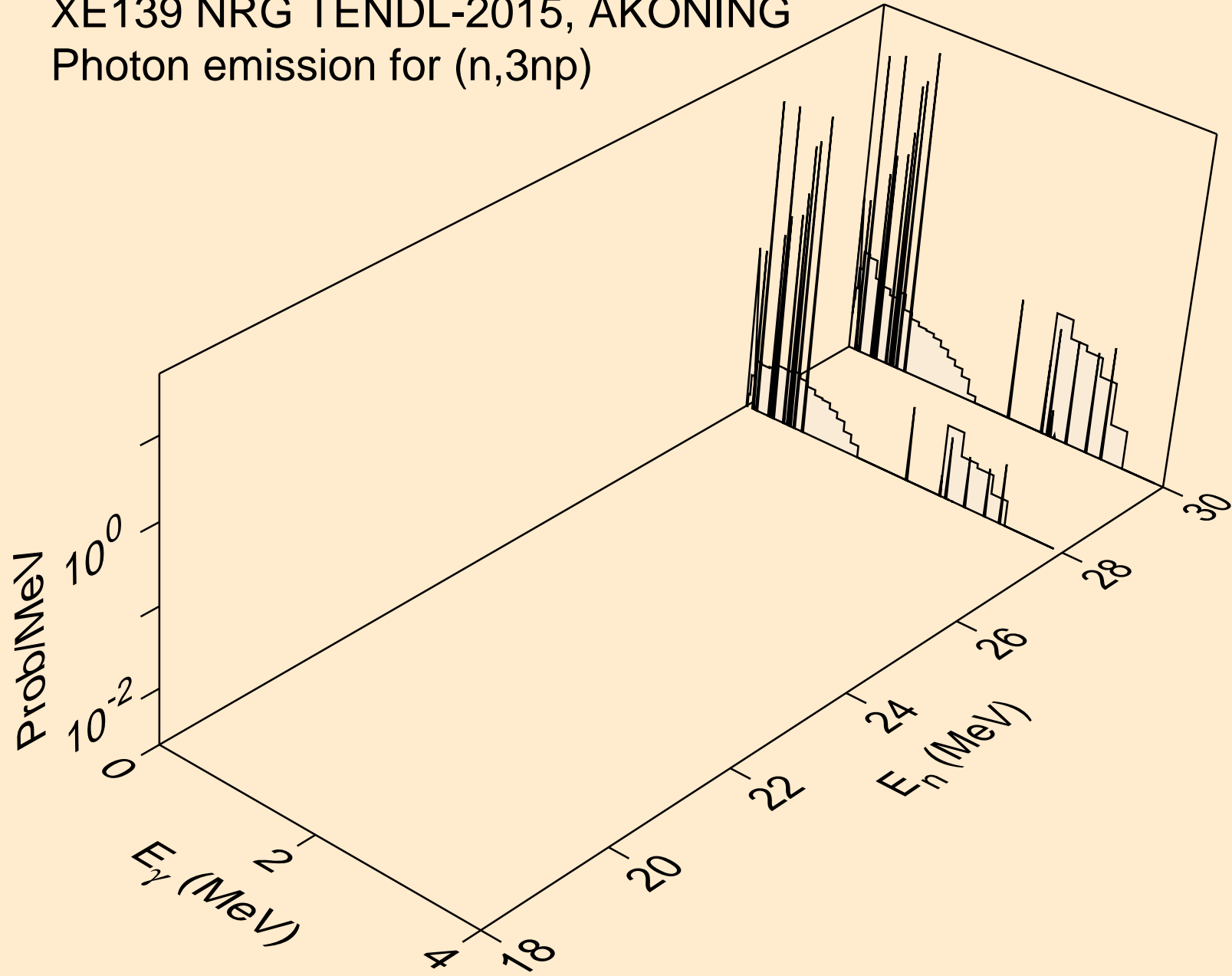
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,4n)



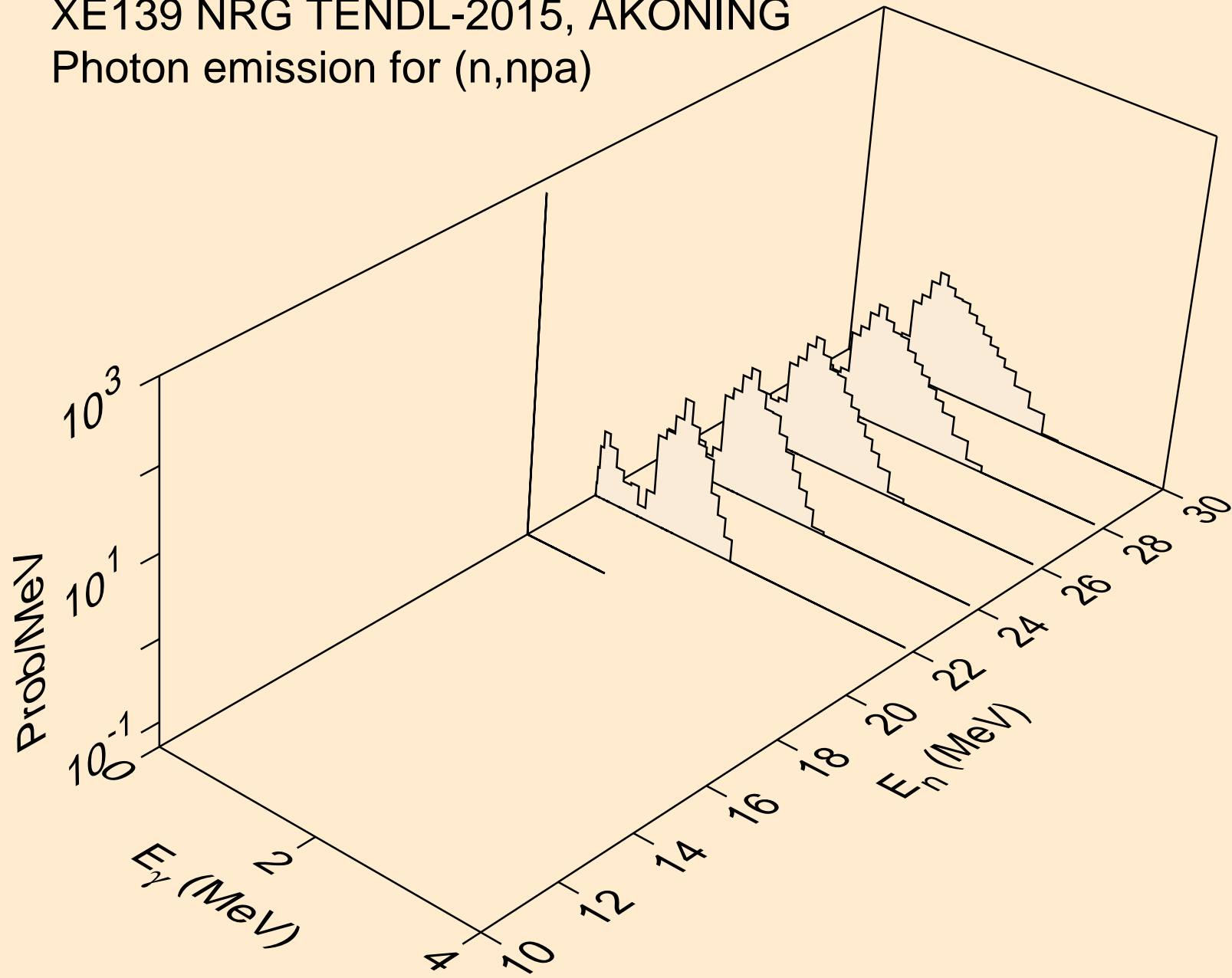
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



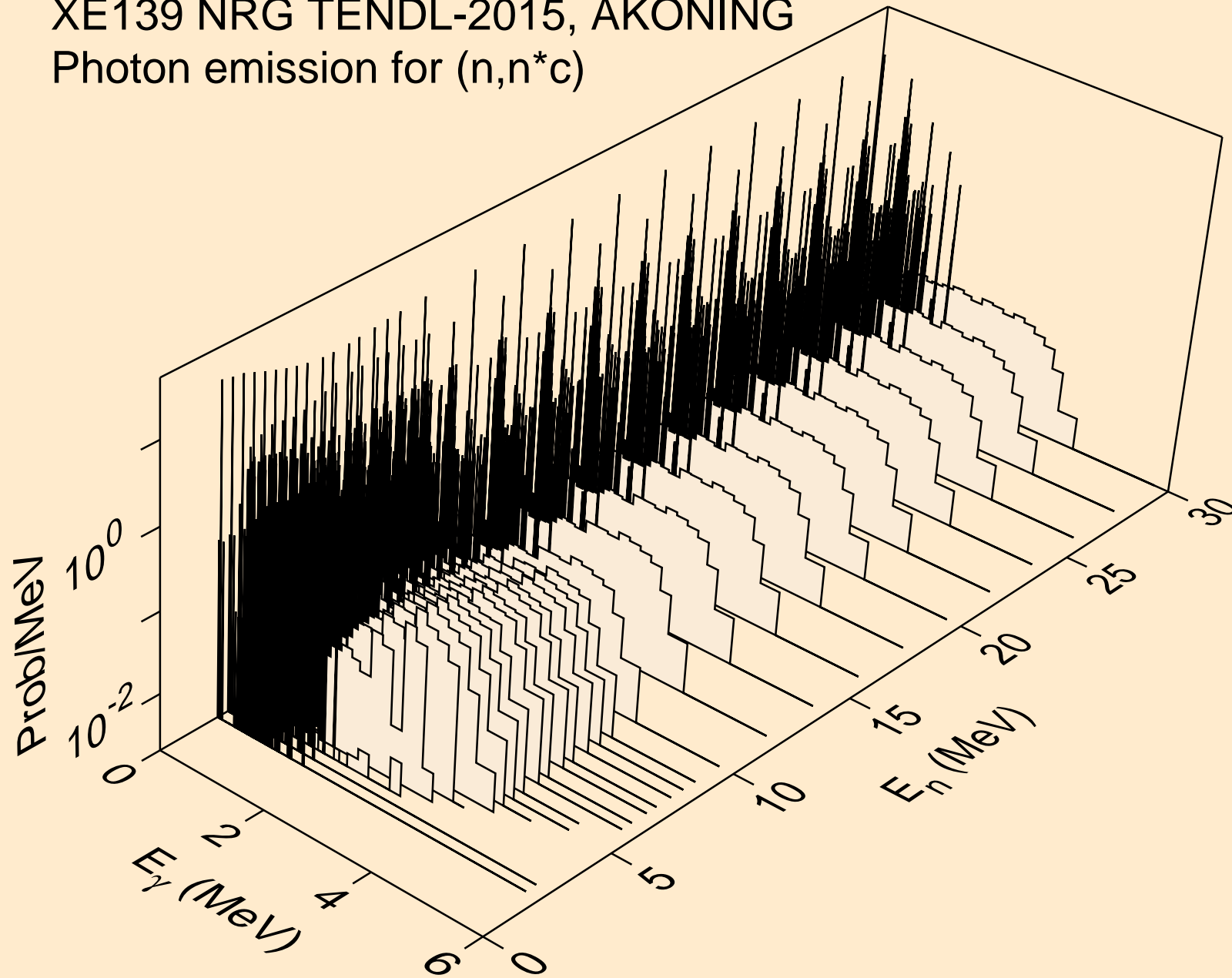
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,3np)



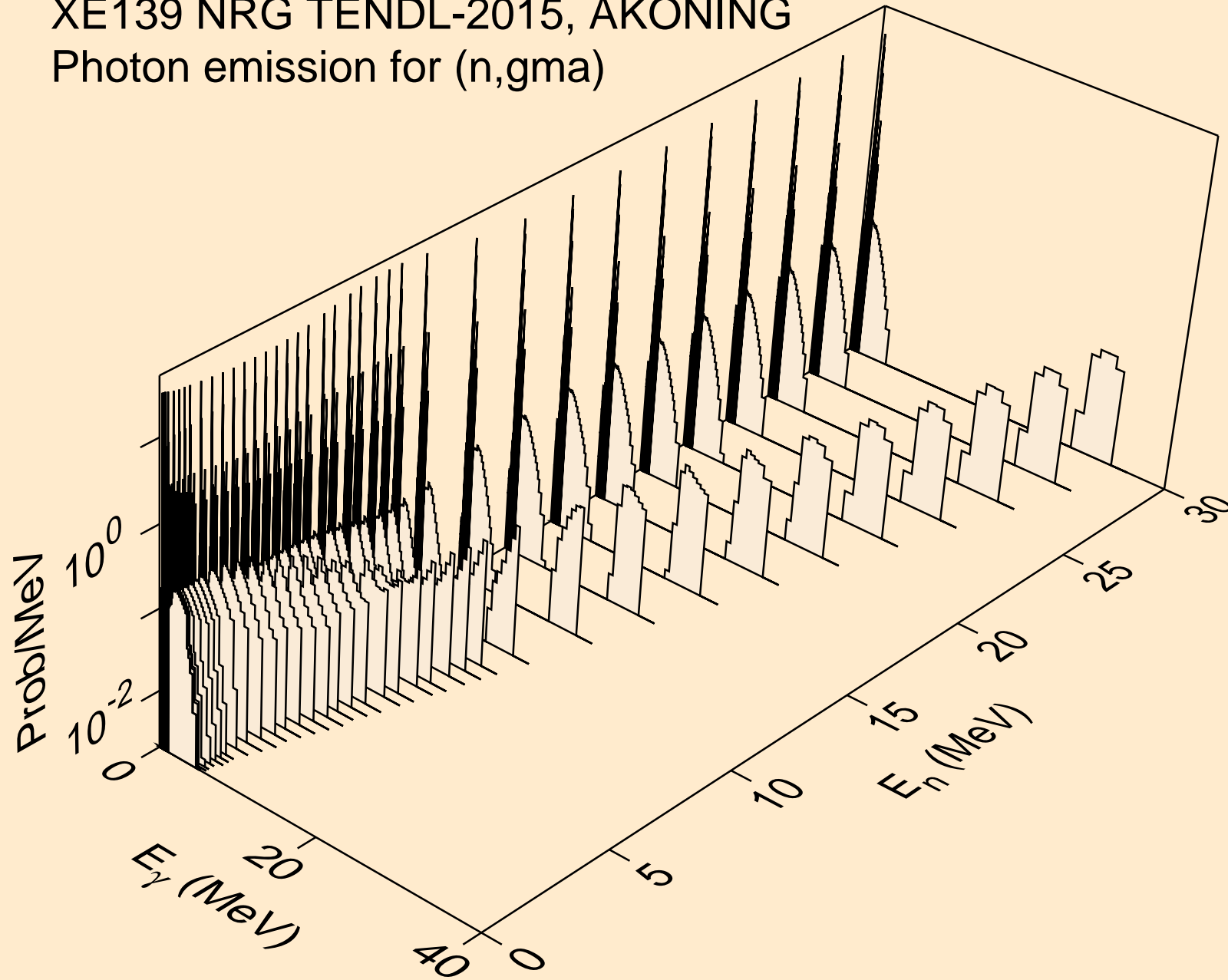
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,npa)



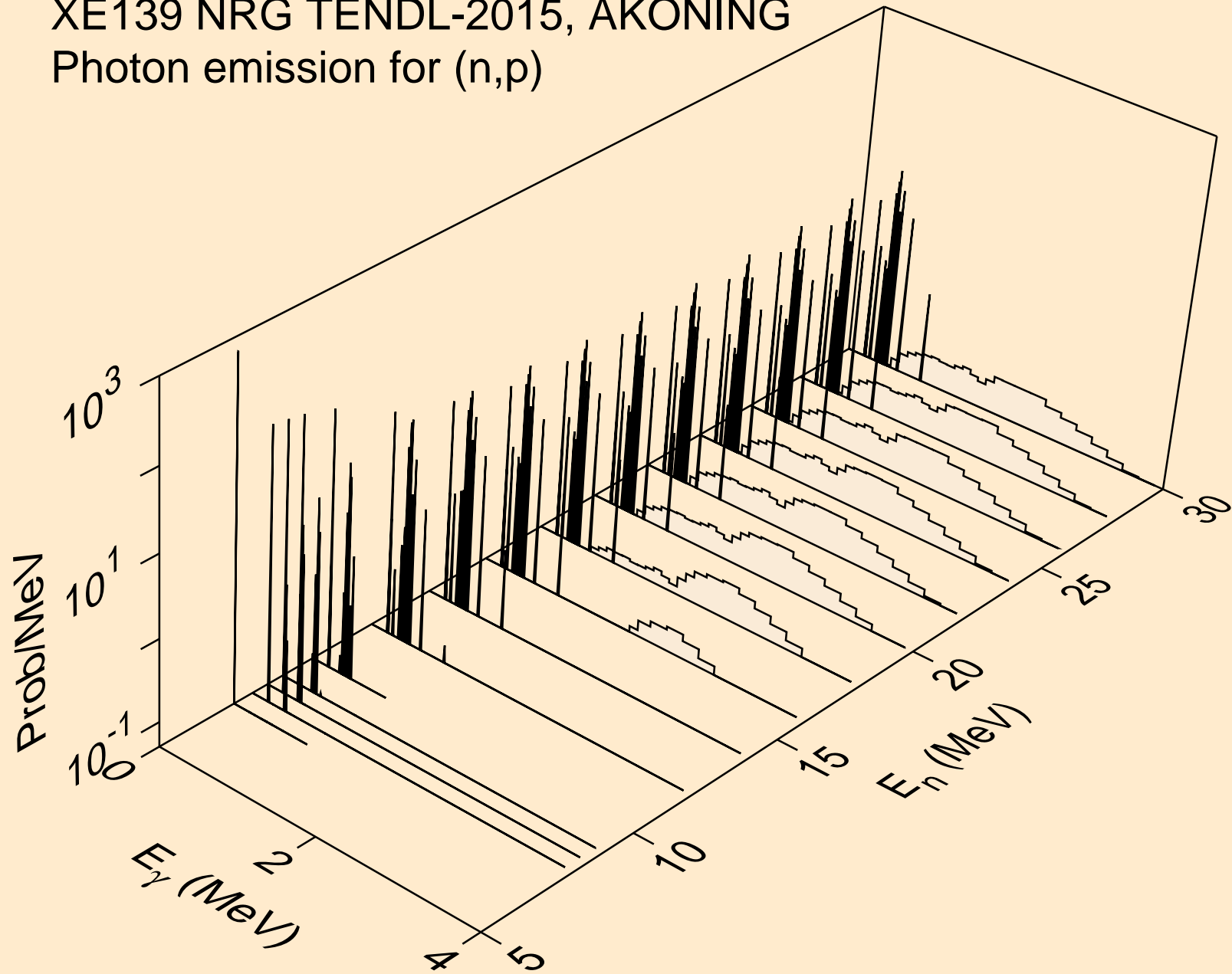
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*c)



XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,gma)

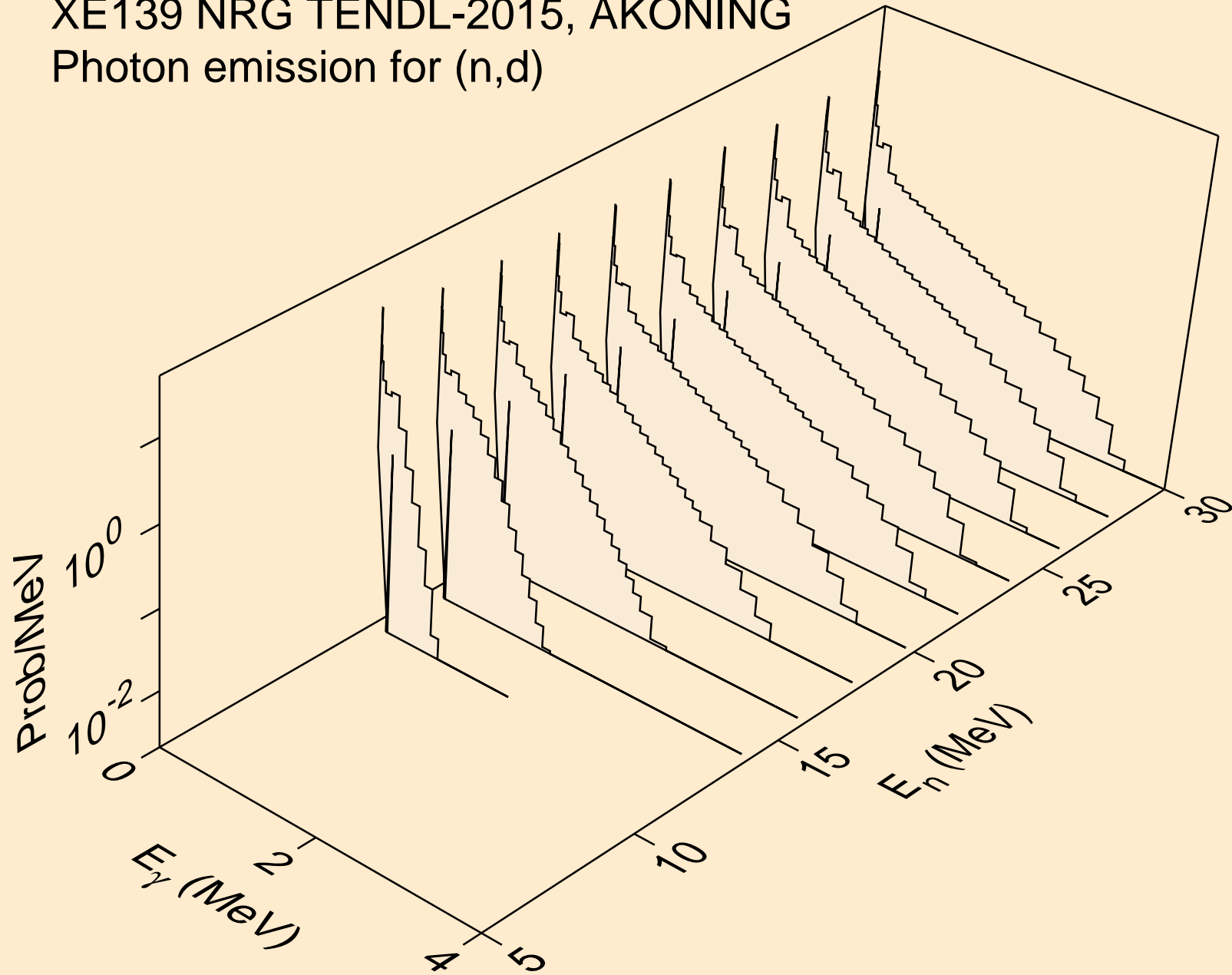


XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,p)

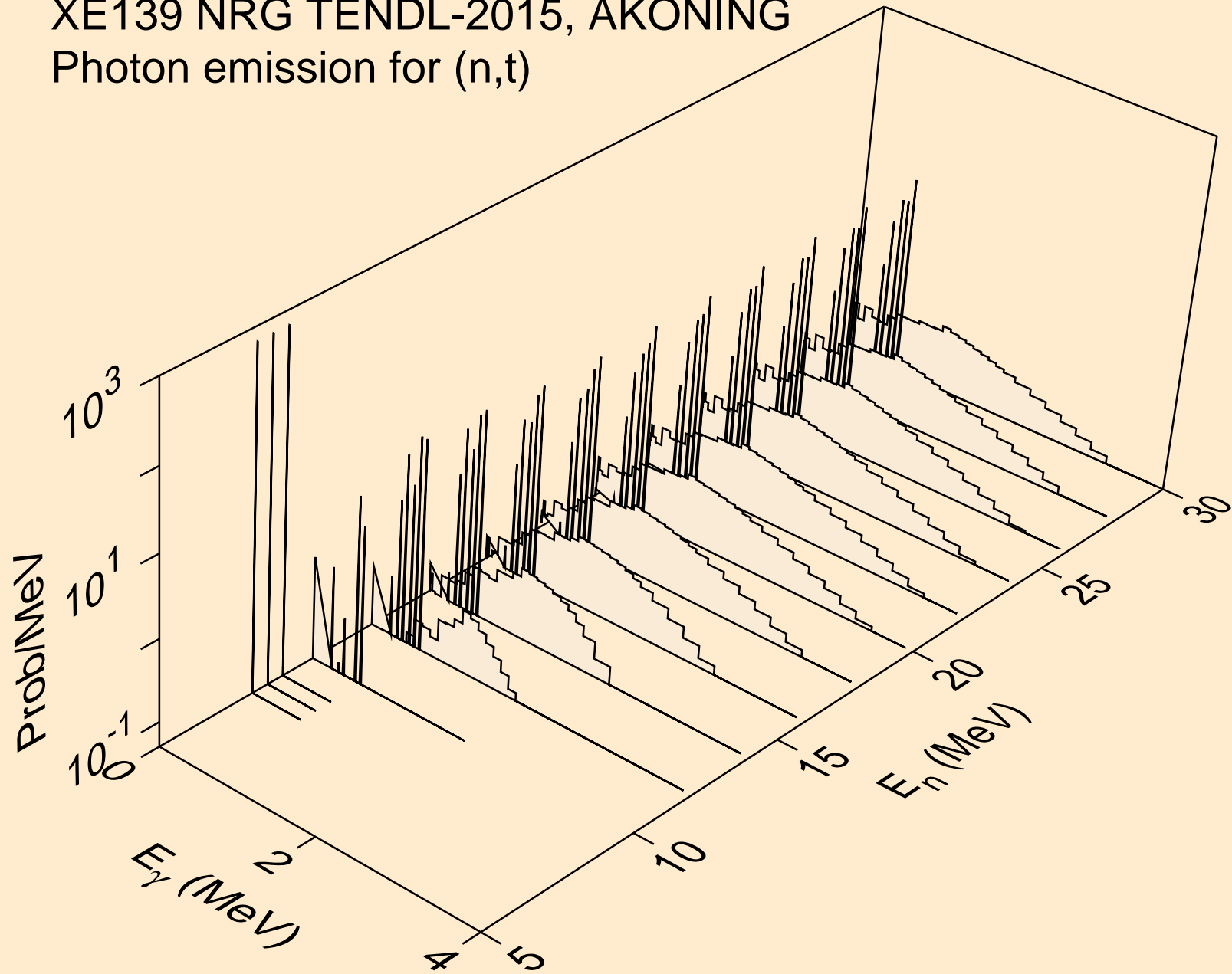




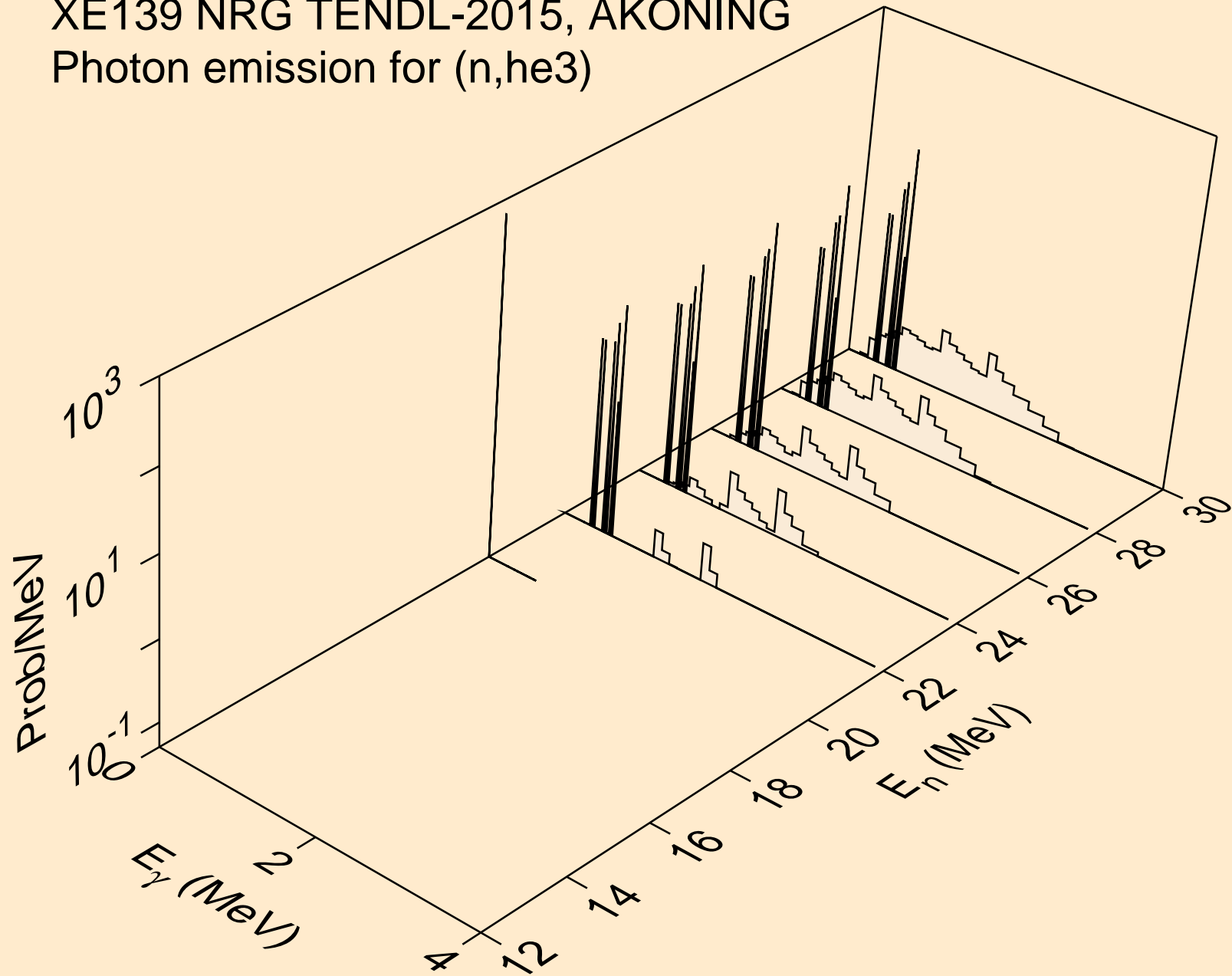
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,d)



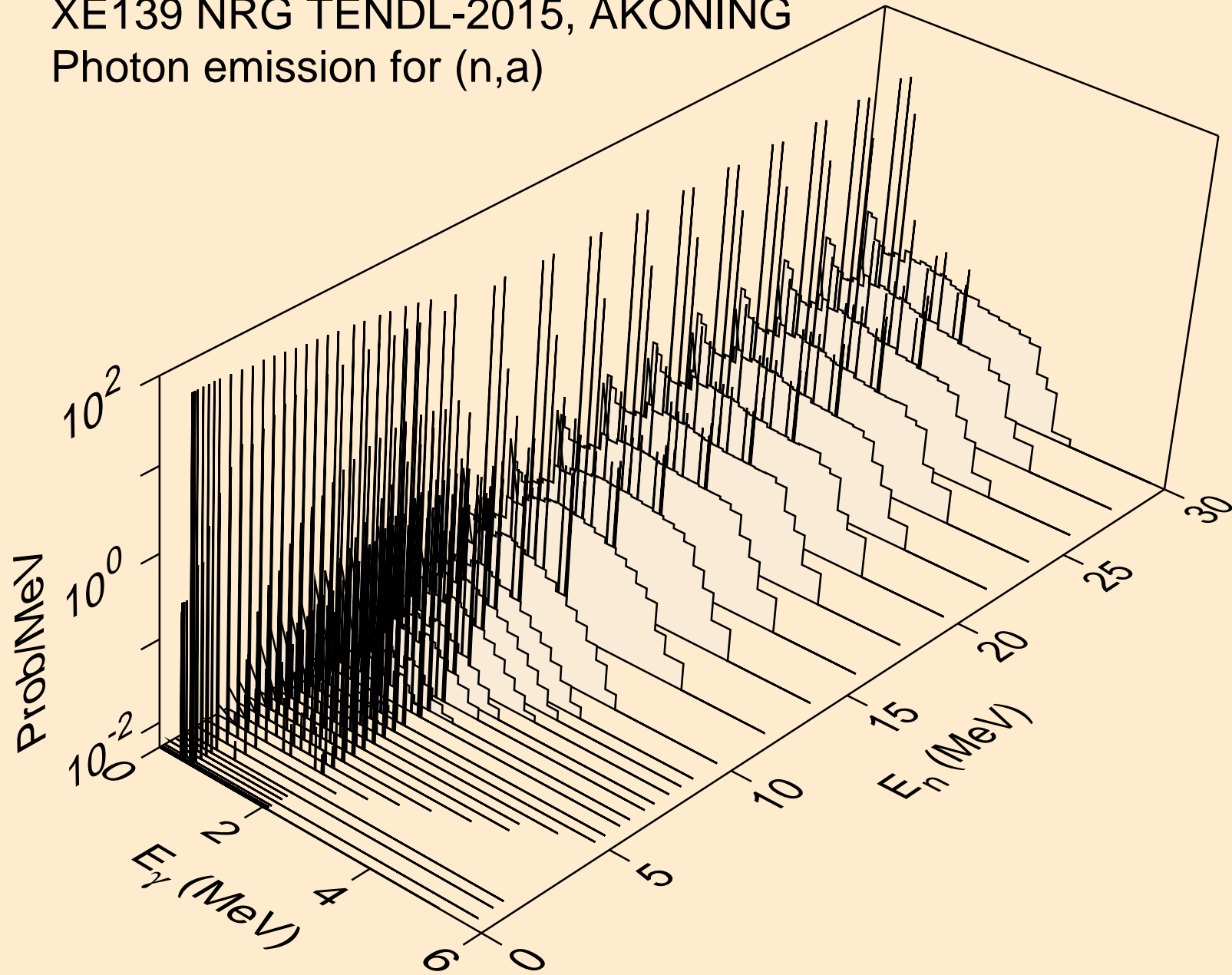
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,t)



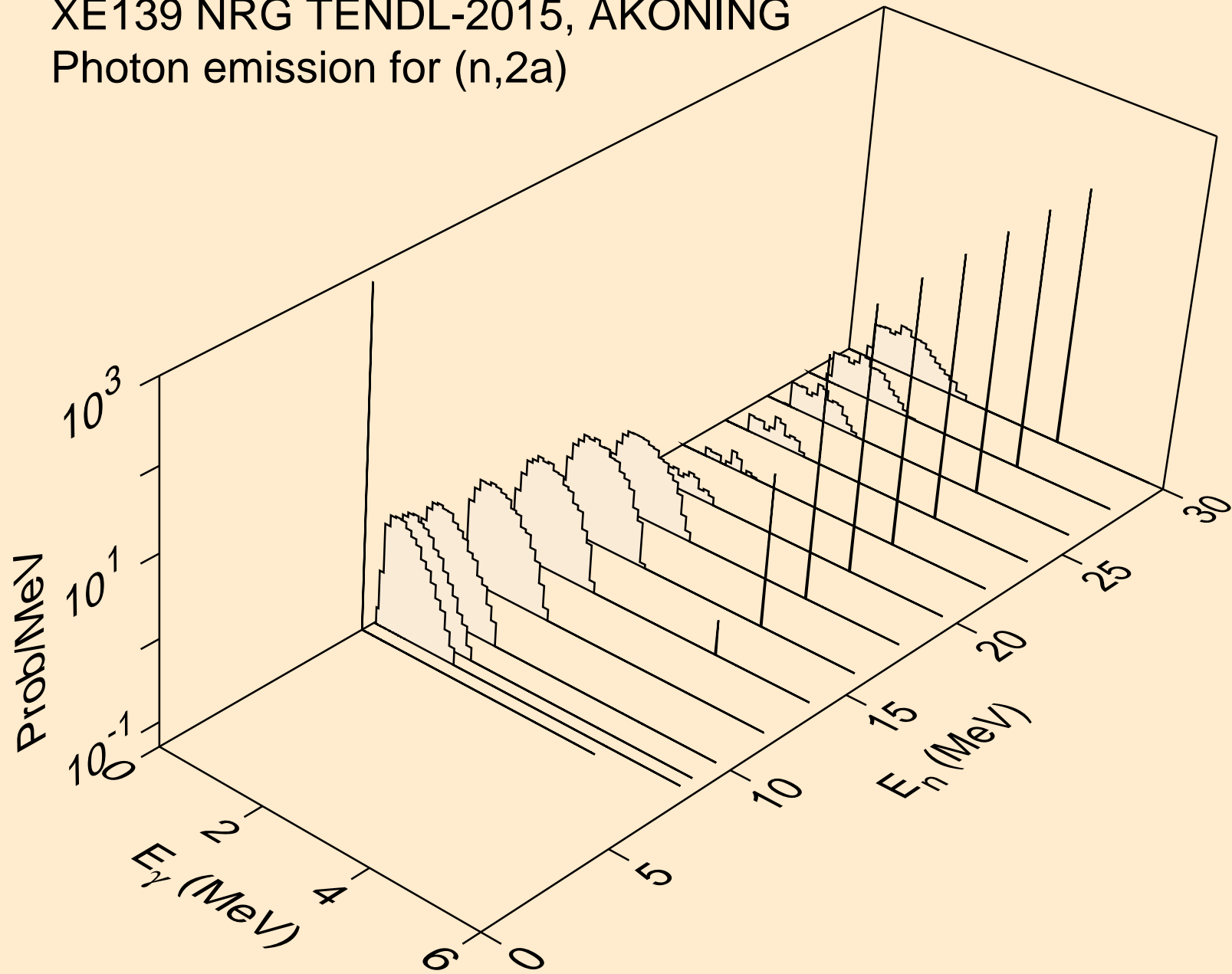
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,he3)



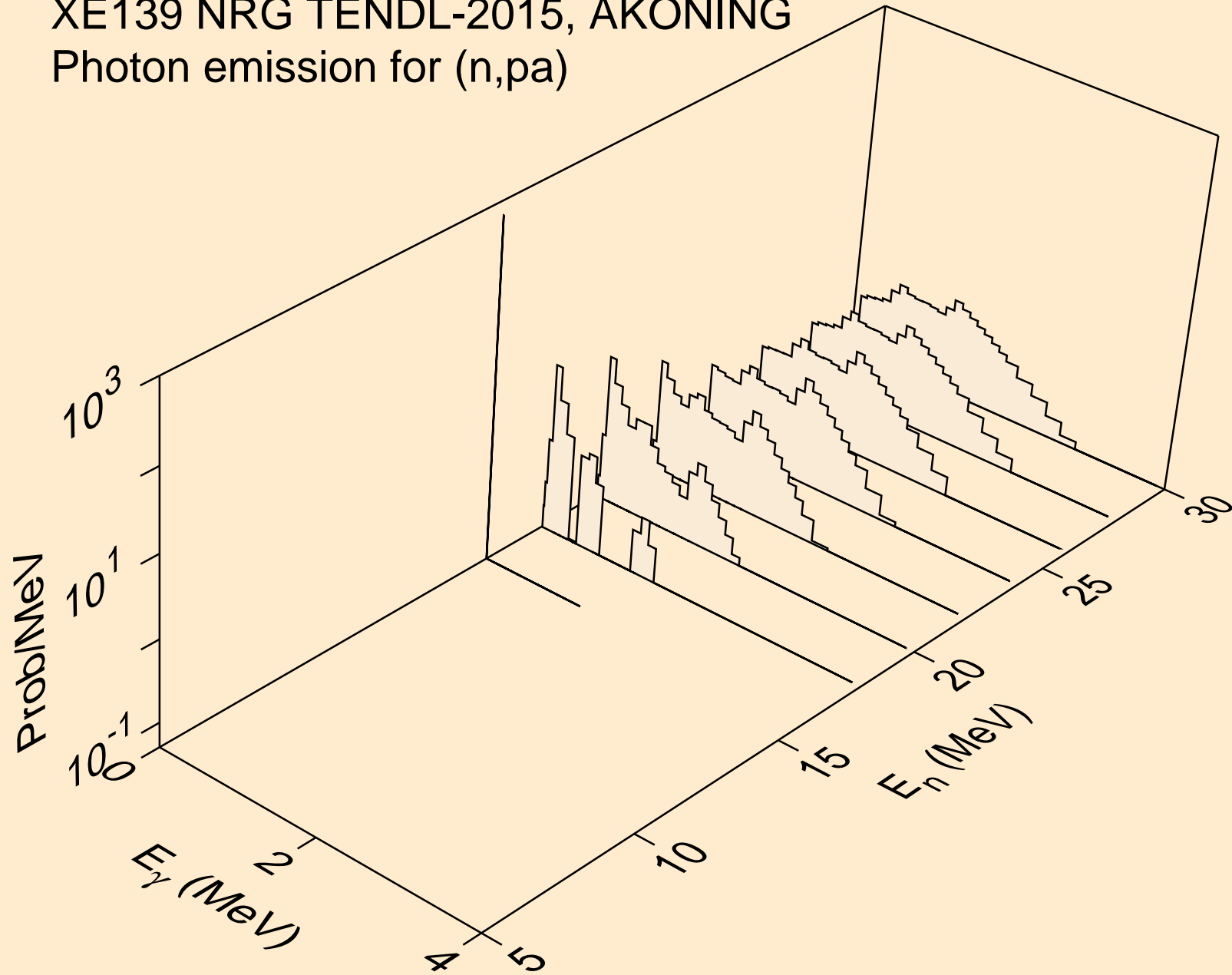
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,a)



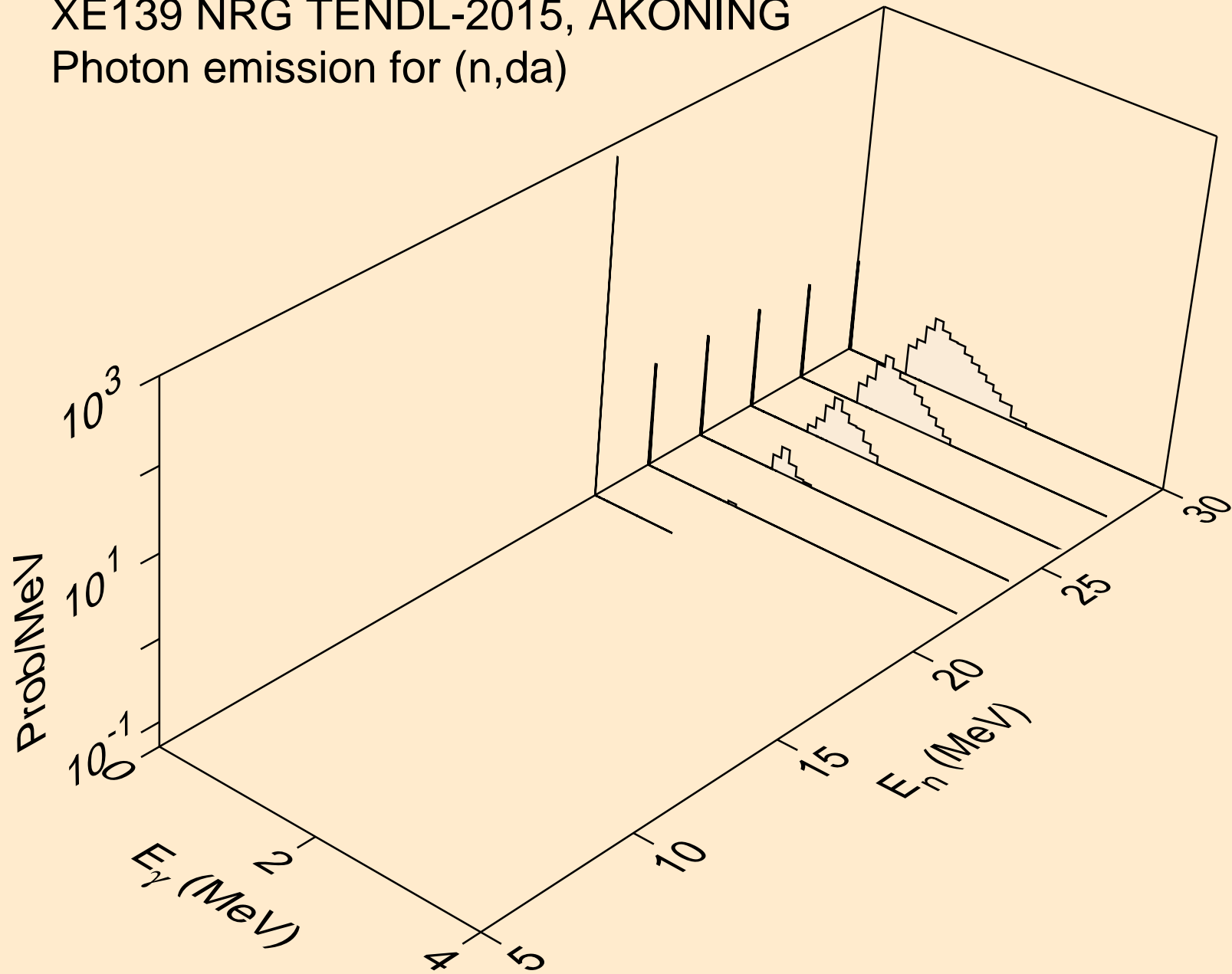
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,2a)



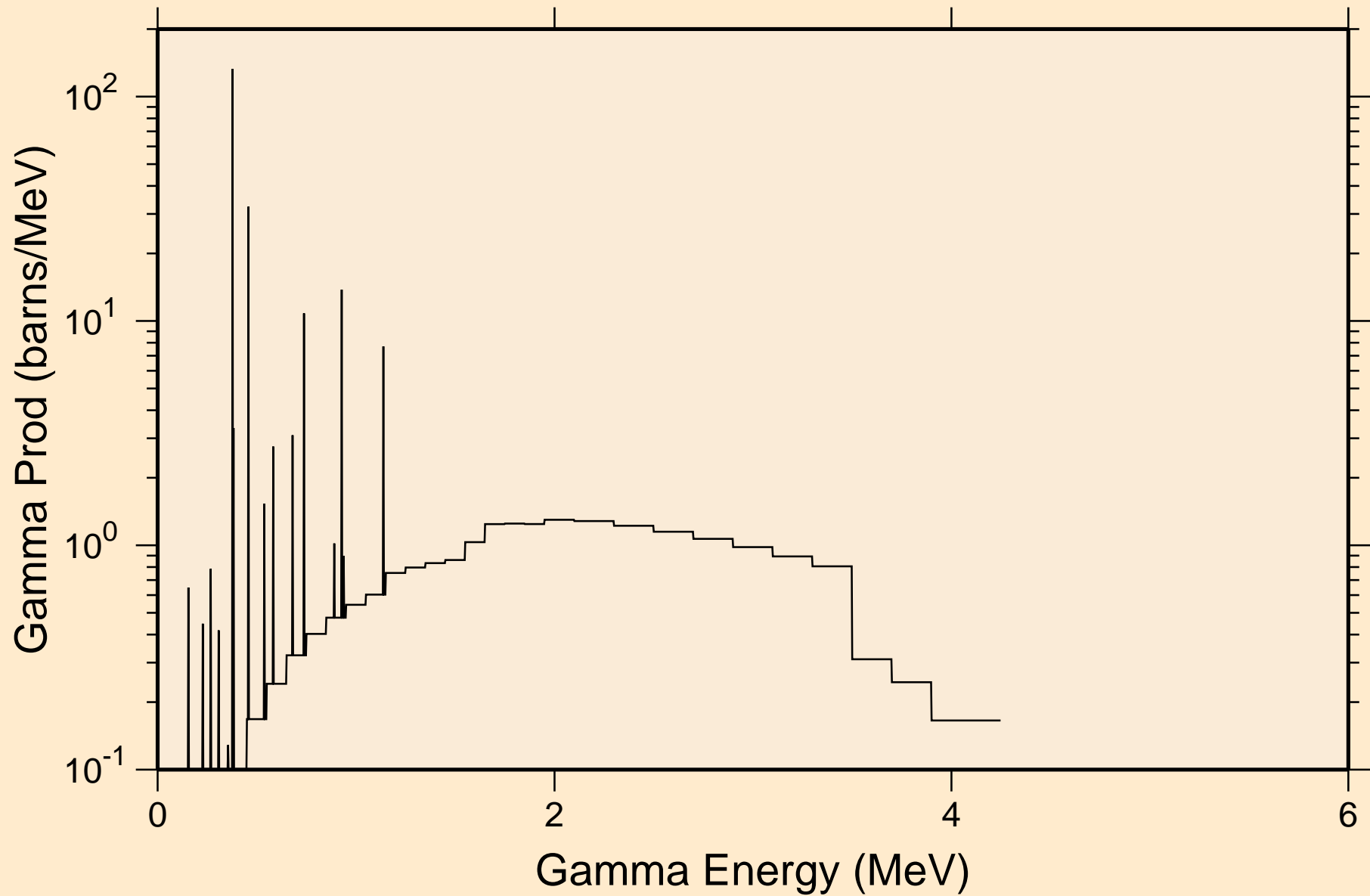
XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,p $\alpha$ )



XE139 NRG TENDL-2015, AKONING  
Photon emission for (n,da)

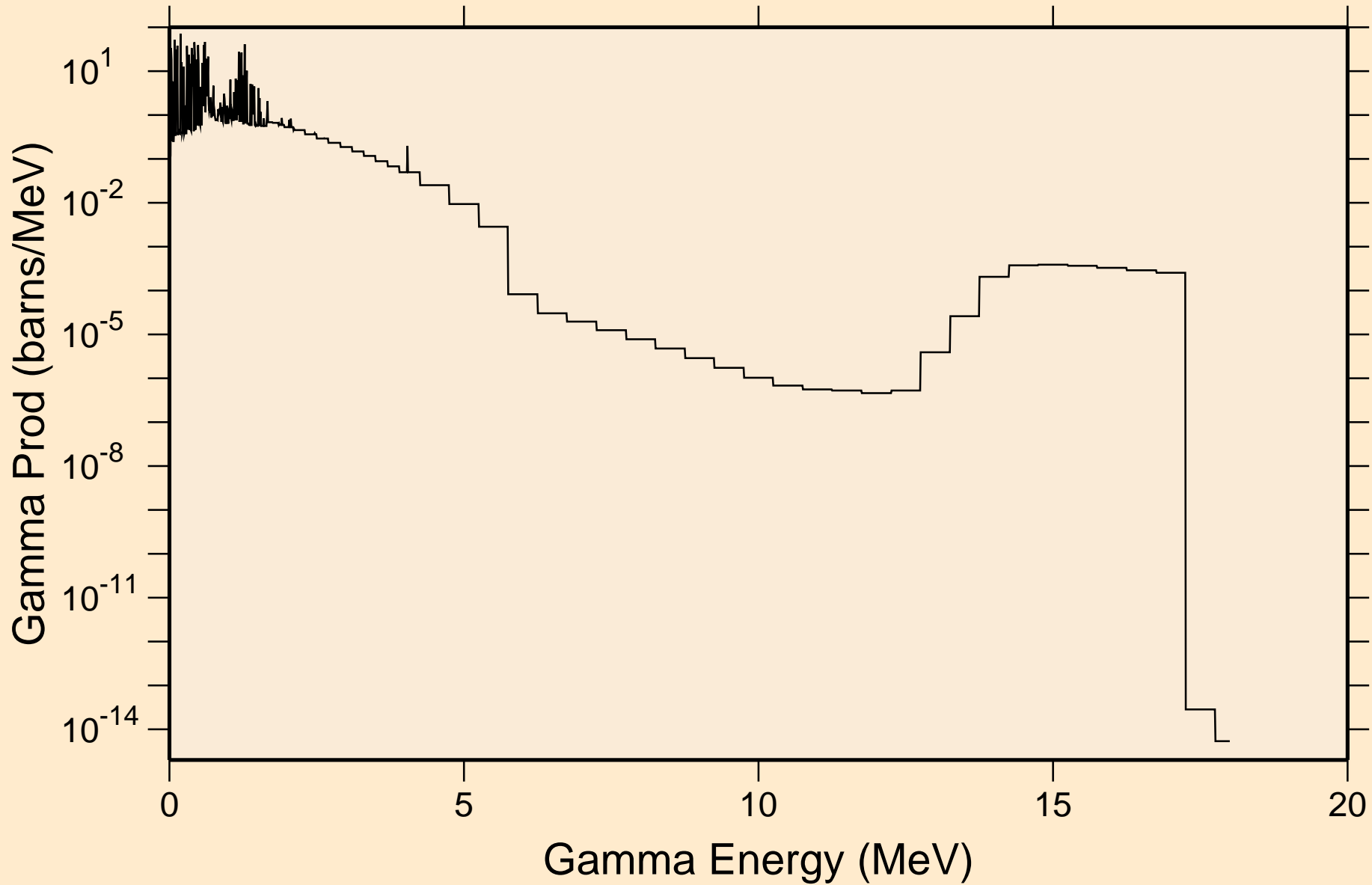


XE139 NRG TENDL-2015, AKONING  
thermal capture photon spectrum



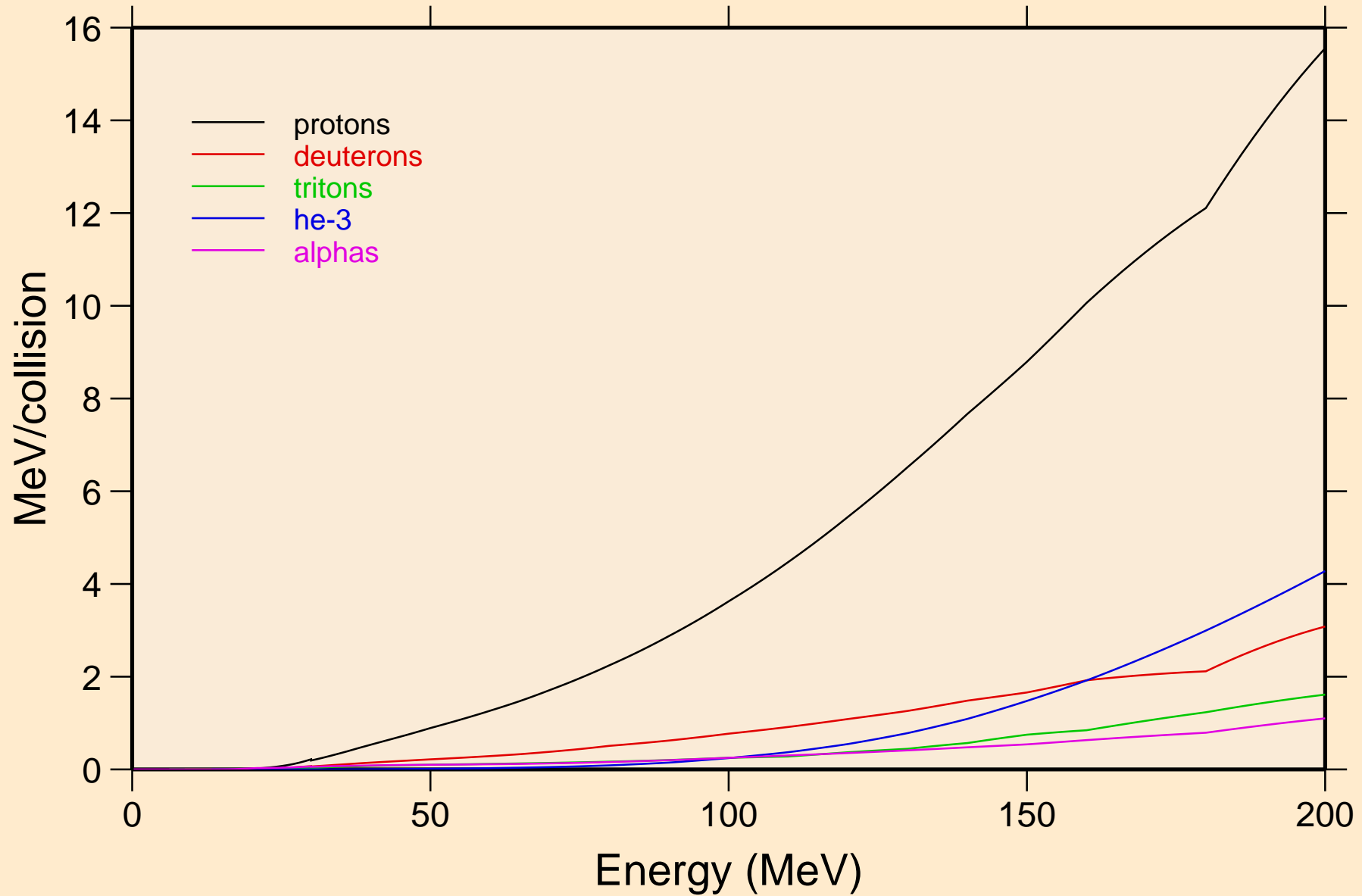


XE139 NRG TENDL-2015, AKONING  
14 MeV photon spectrum



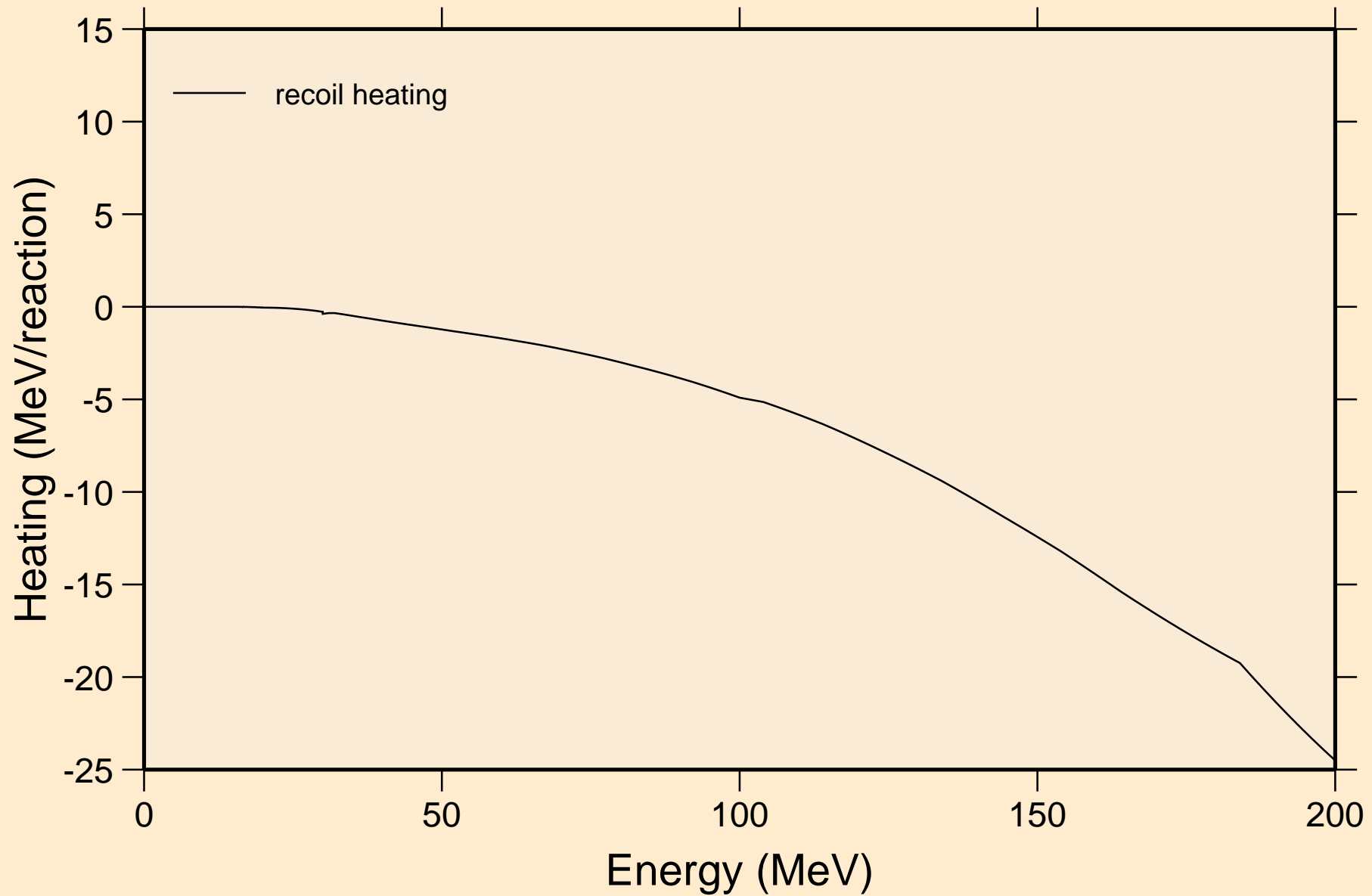
# XE139 NRG TENDL-2015, AKONING

## Particle heating contributions



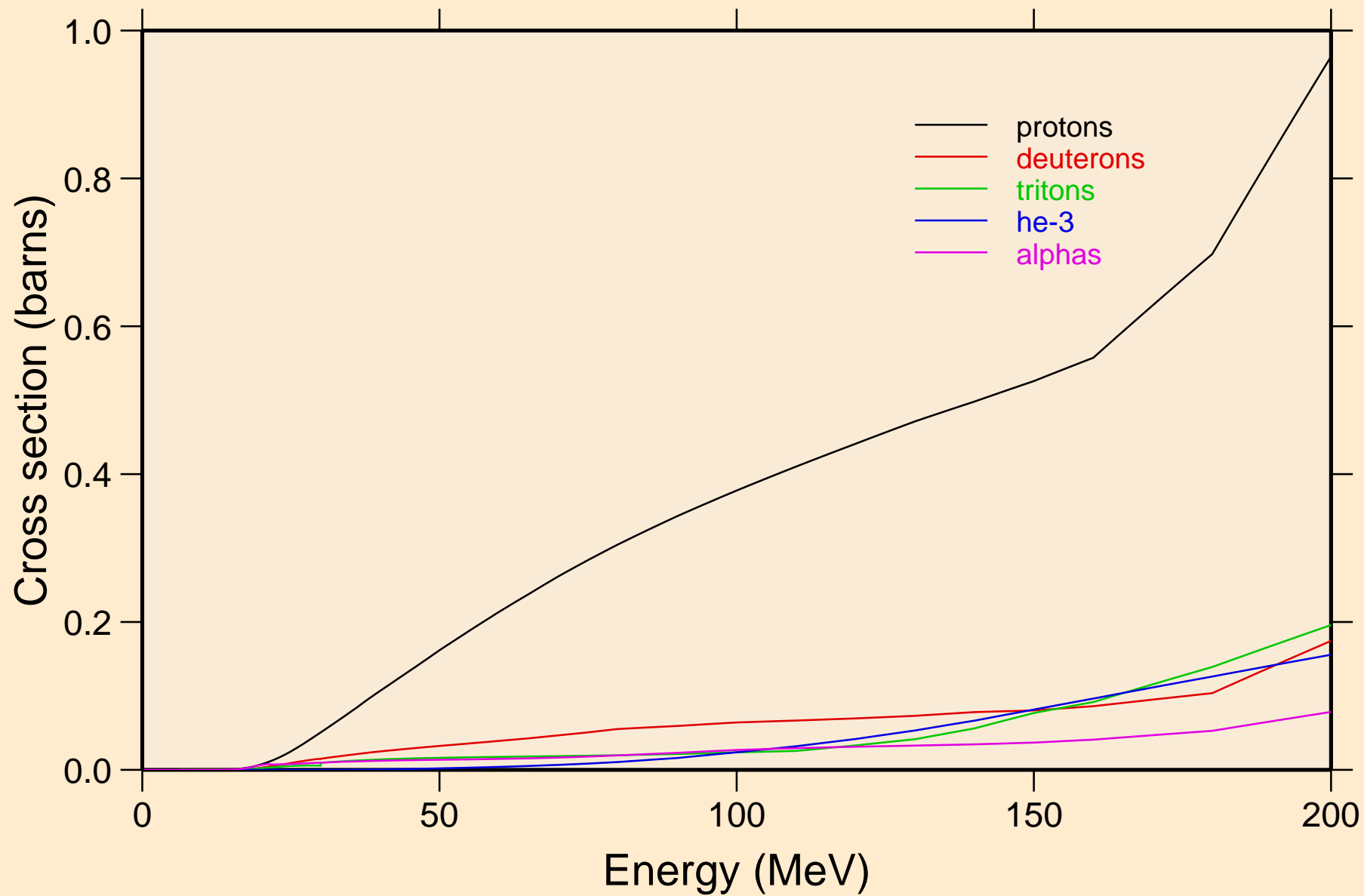
# XE139 NRG TENDL-2015, AKONING

## Recoil Heating

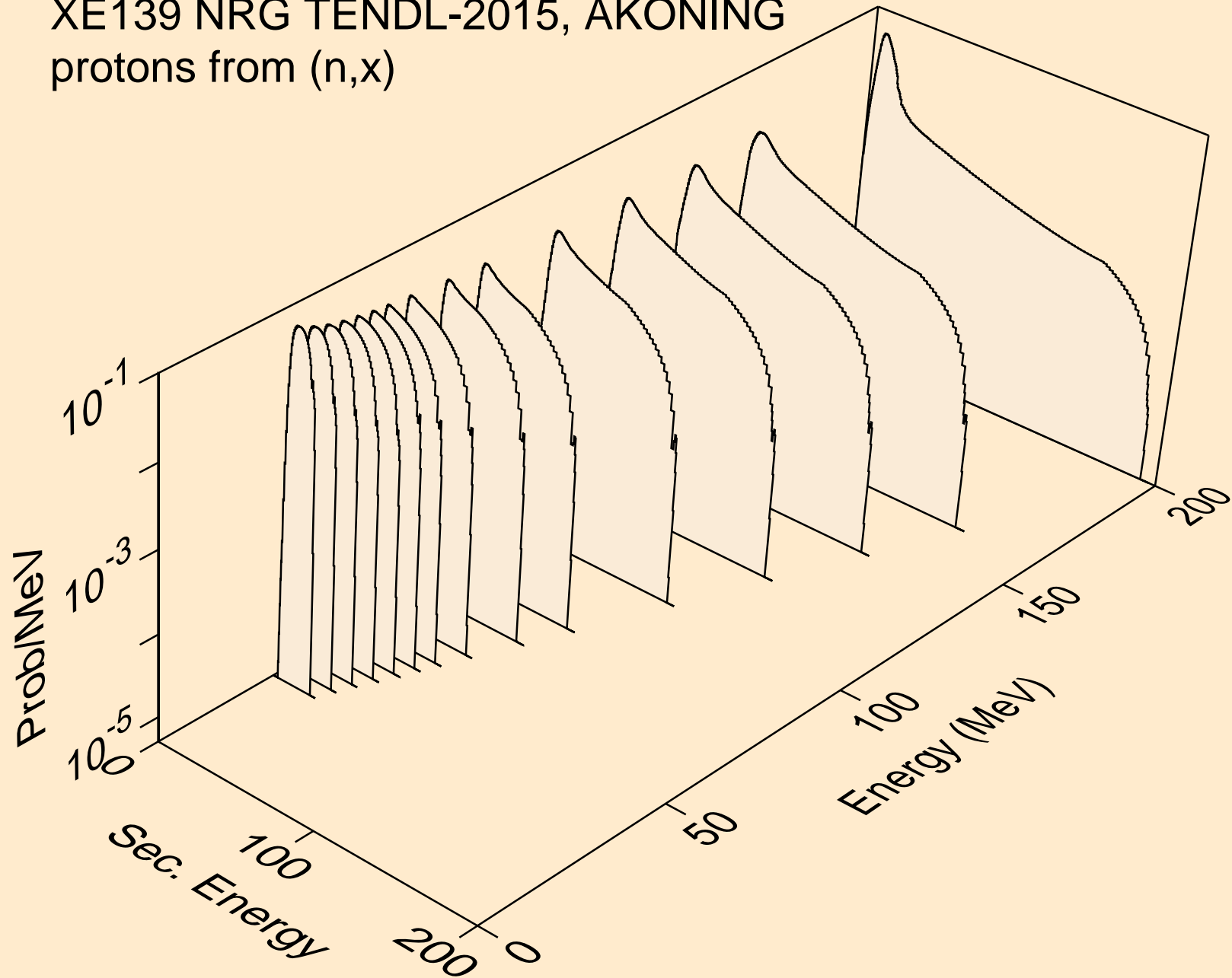


# XE139 NRG TENDL-2015, AKONING

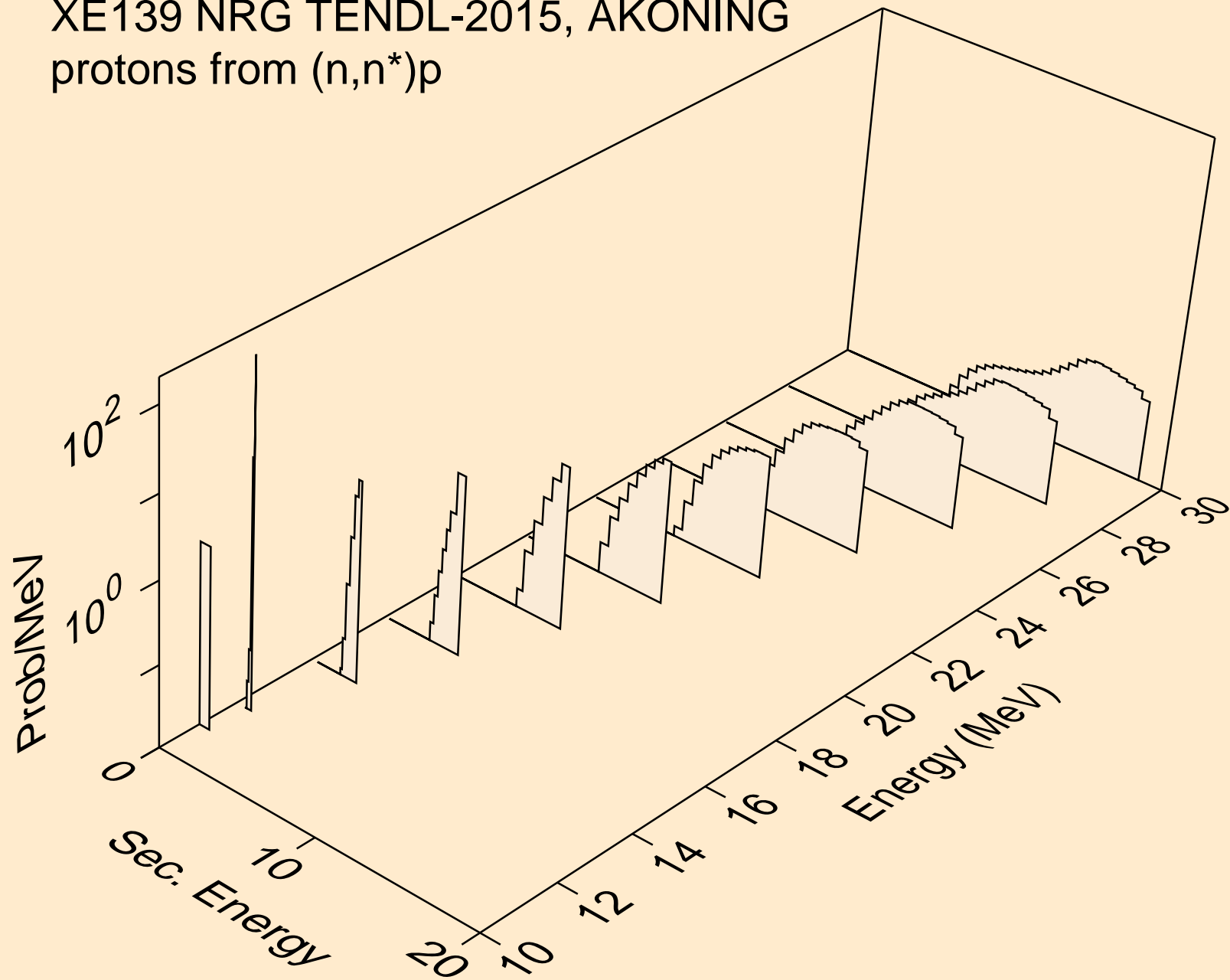
## Particle production cross sections



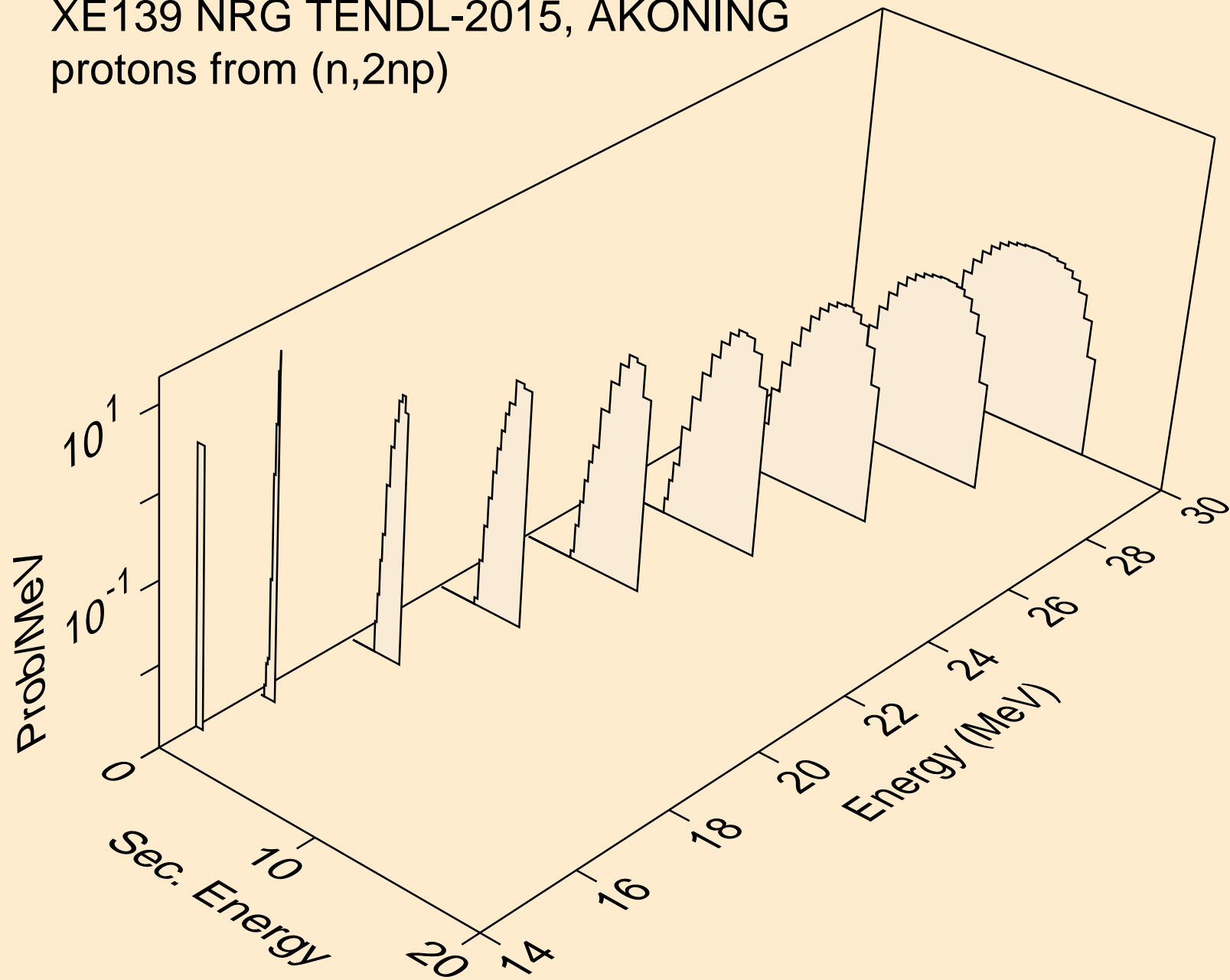
XE139 NRG TENDL-2015, AKONING  
protons from (n,x)



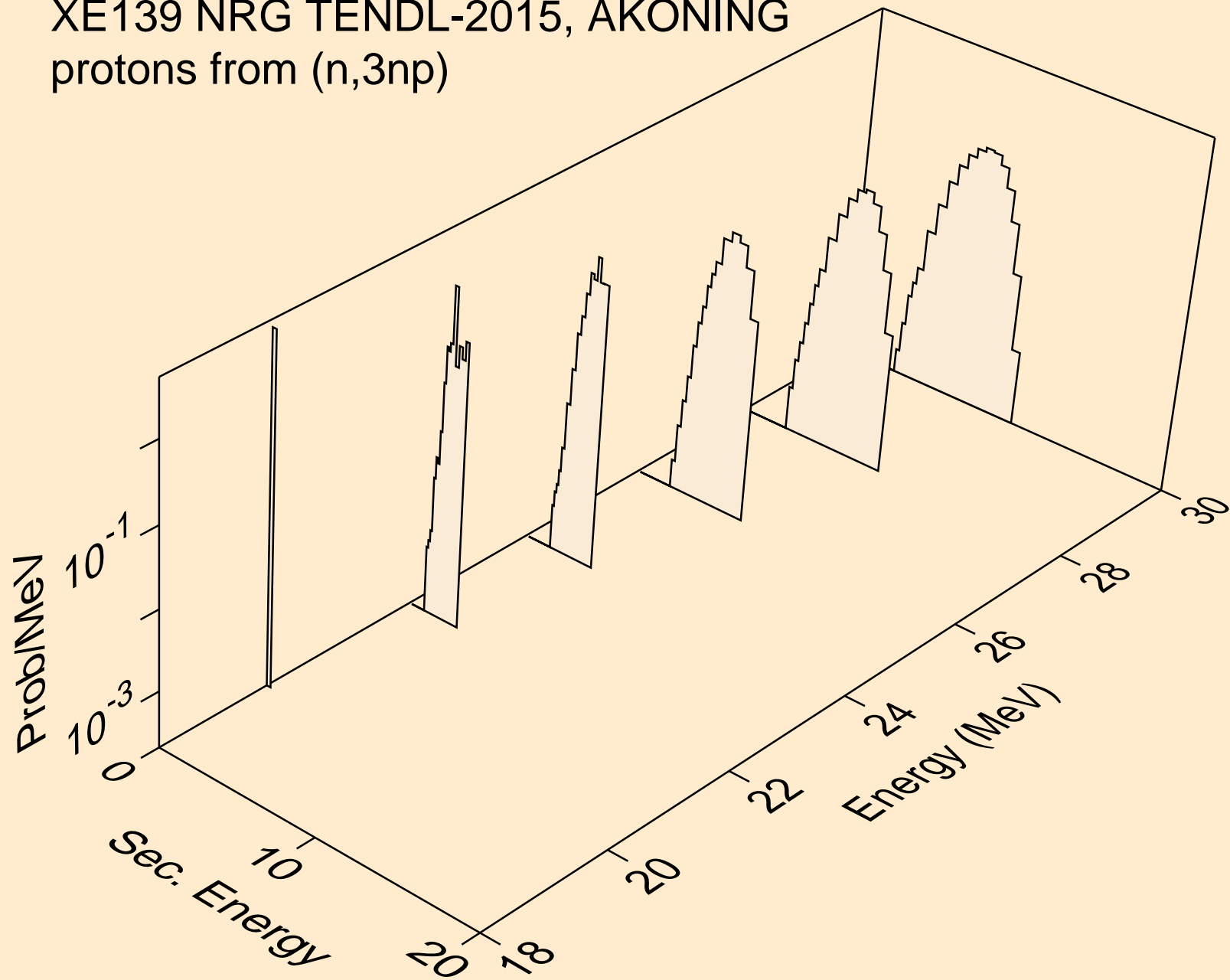
XE139 NRG TENDL-2015, AKONING  
protons from (n,n\*)p



XE139 NRG TENDL-2015, AKONING  
protons from (n,2np)

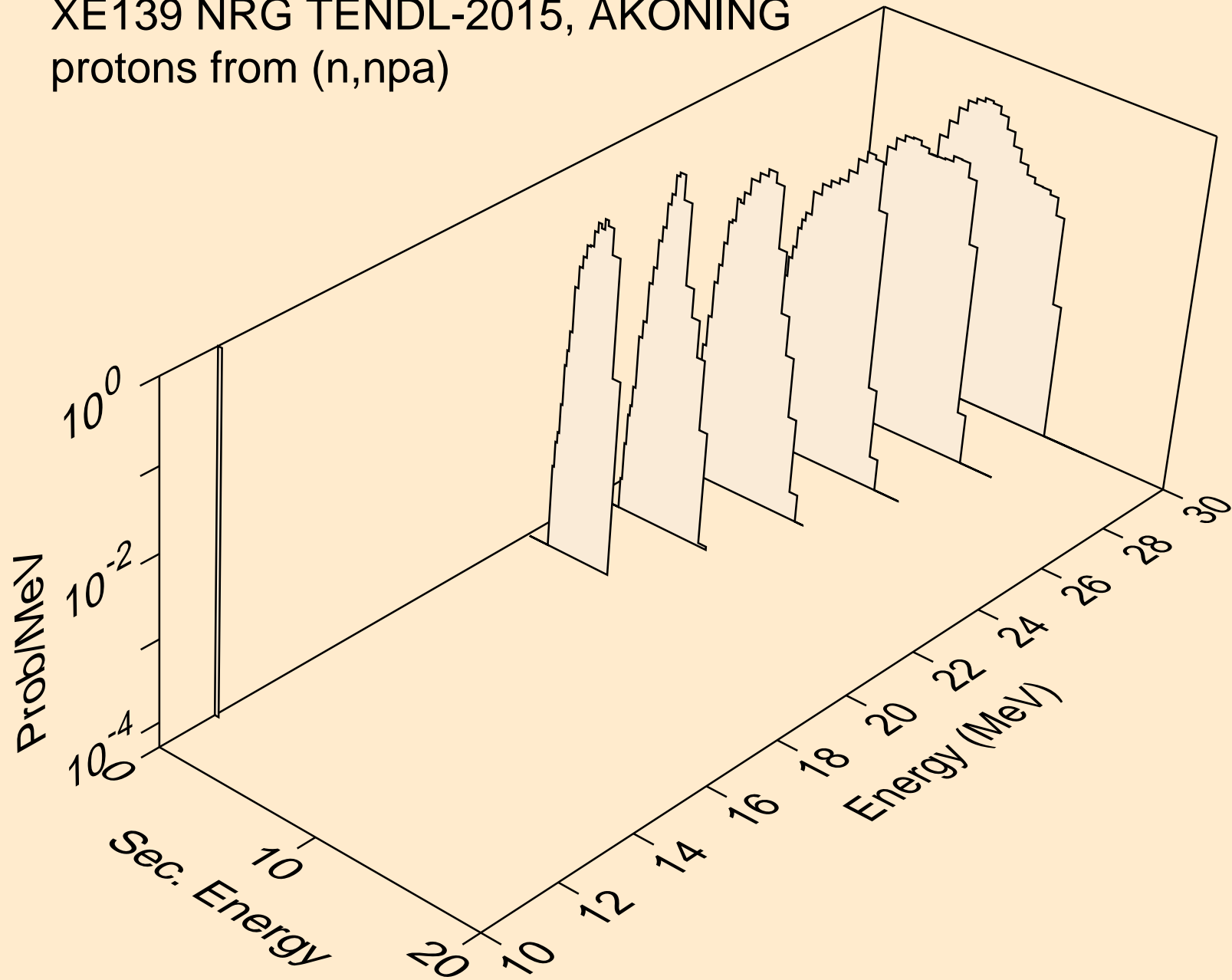


XE139 NRG TENDL-2015, AKONING  
protons from (n,3np)

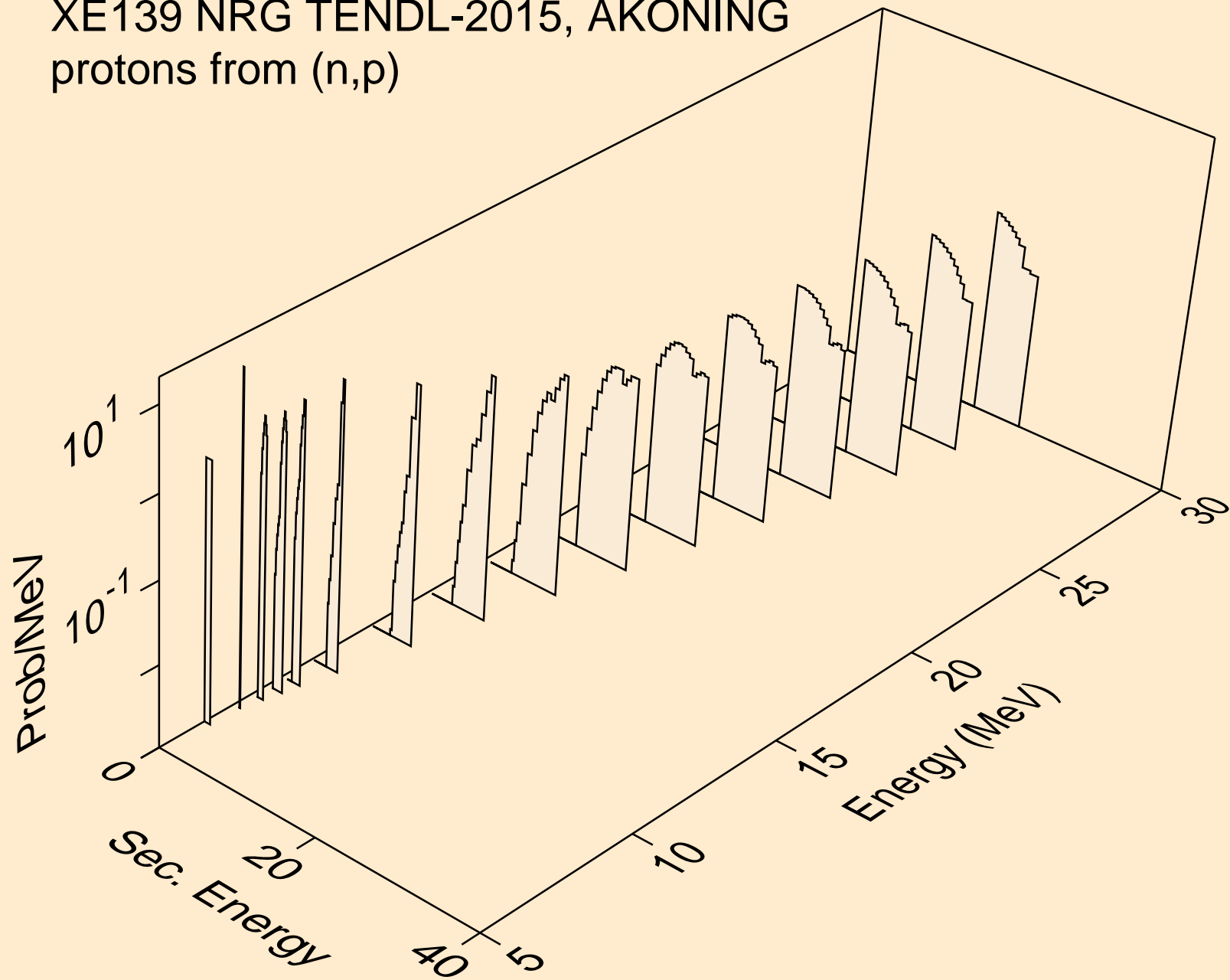




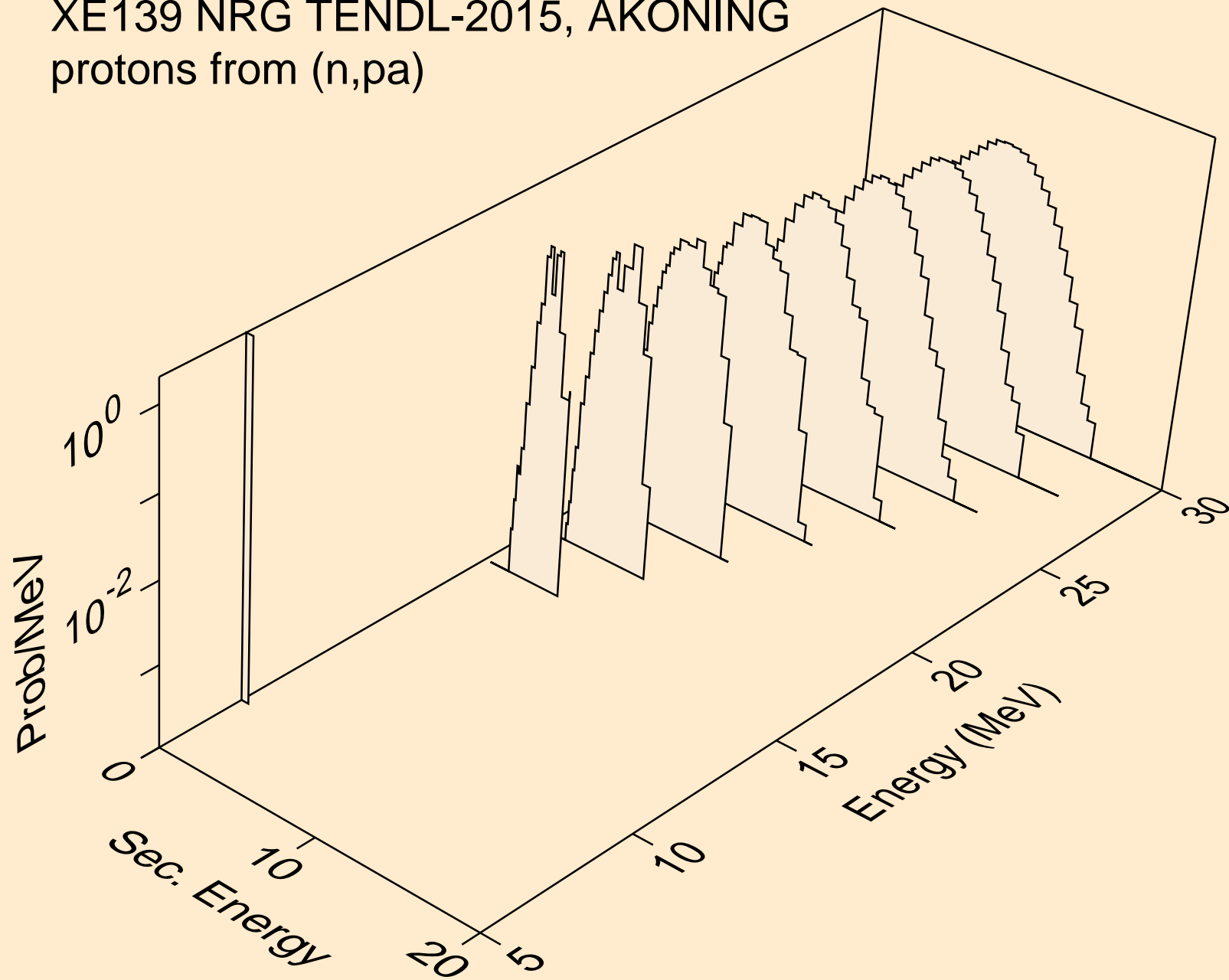
XE139 NRG TENDL-2015, AKONING  
protons from (n,npa)



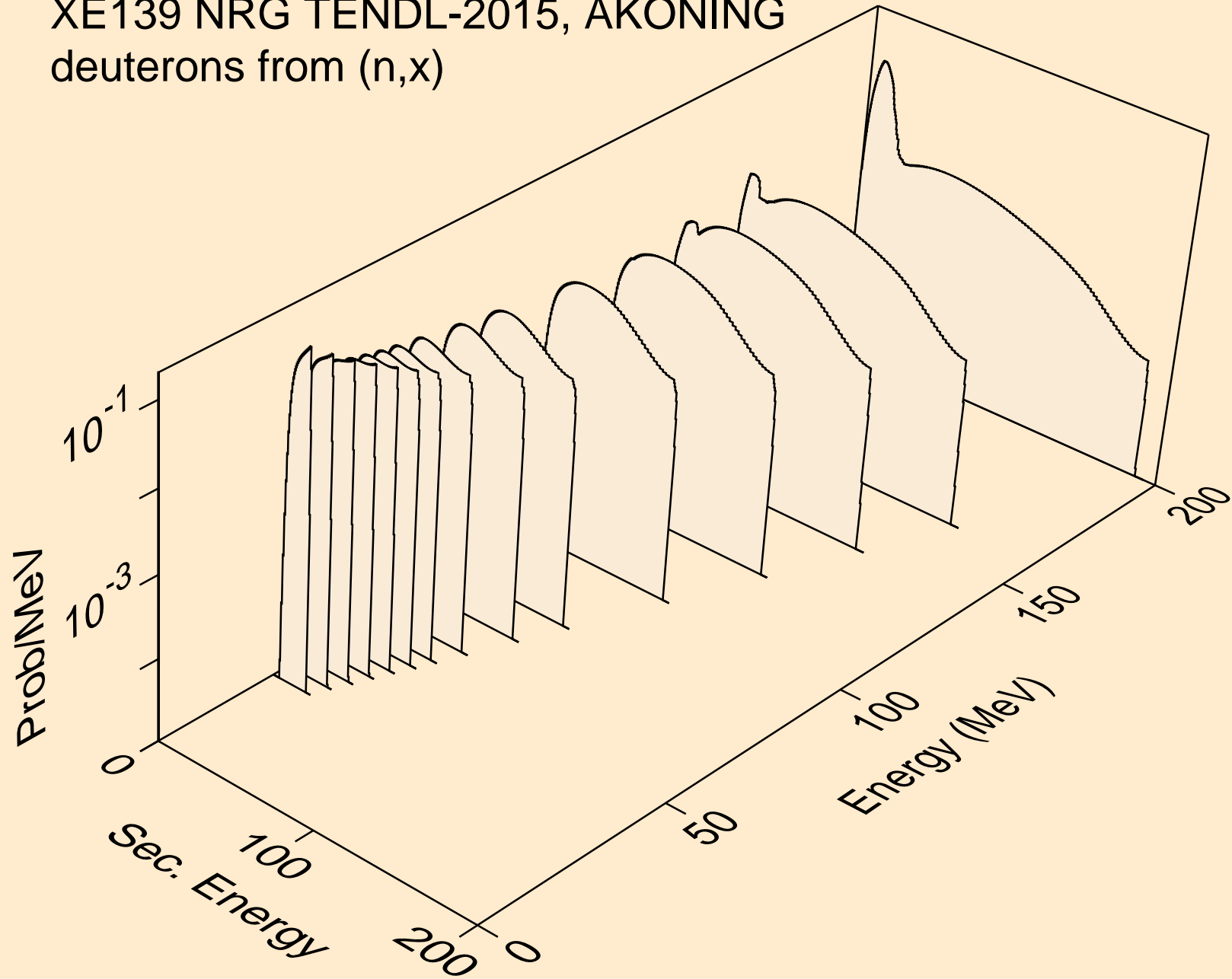
XE139 NRG TENDL-2015, AKONING  
protons from (n,p)



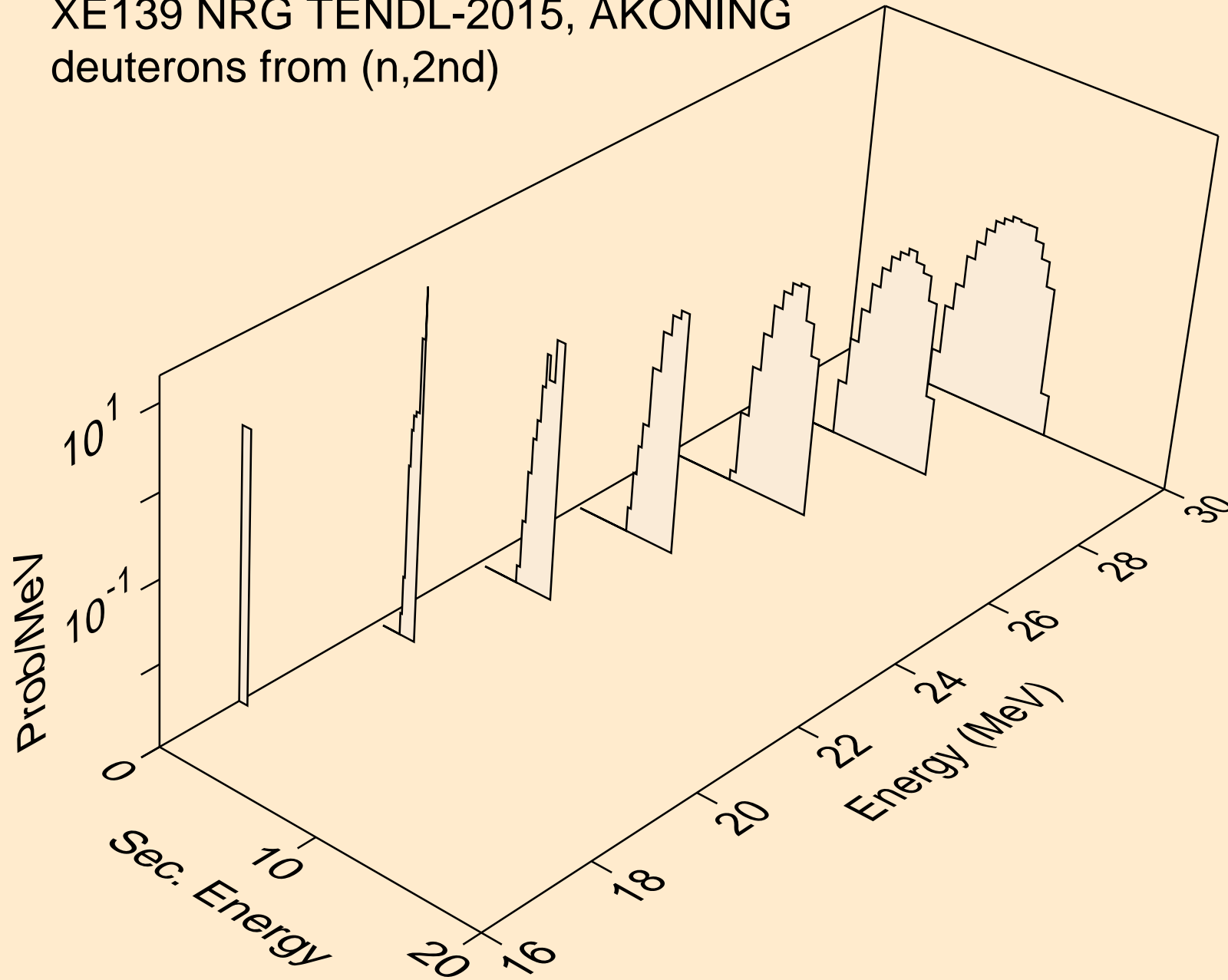
XE139 NRG TENDL-2015, AKONING  
protons from (n,pa)



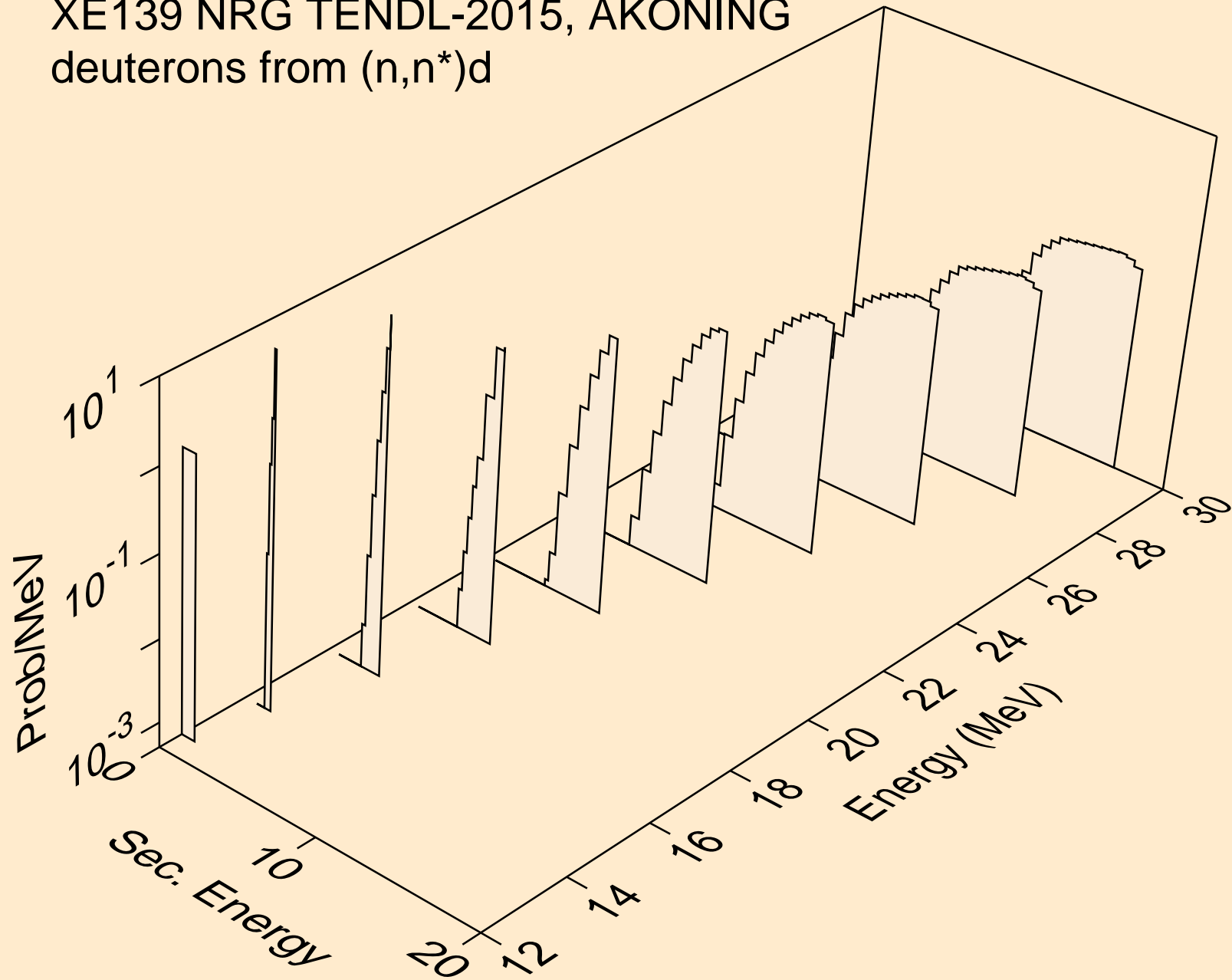
XE139 NRG TENDL-2015, AKONING  
deuterons from (n,x)



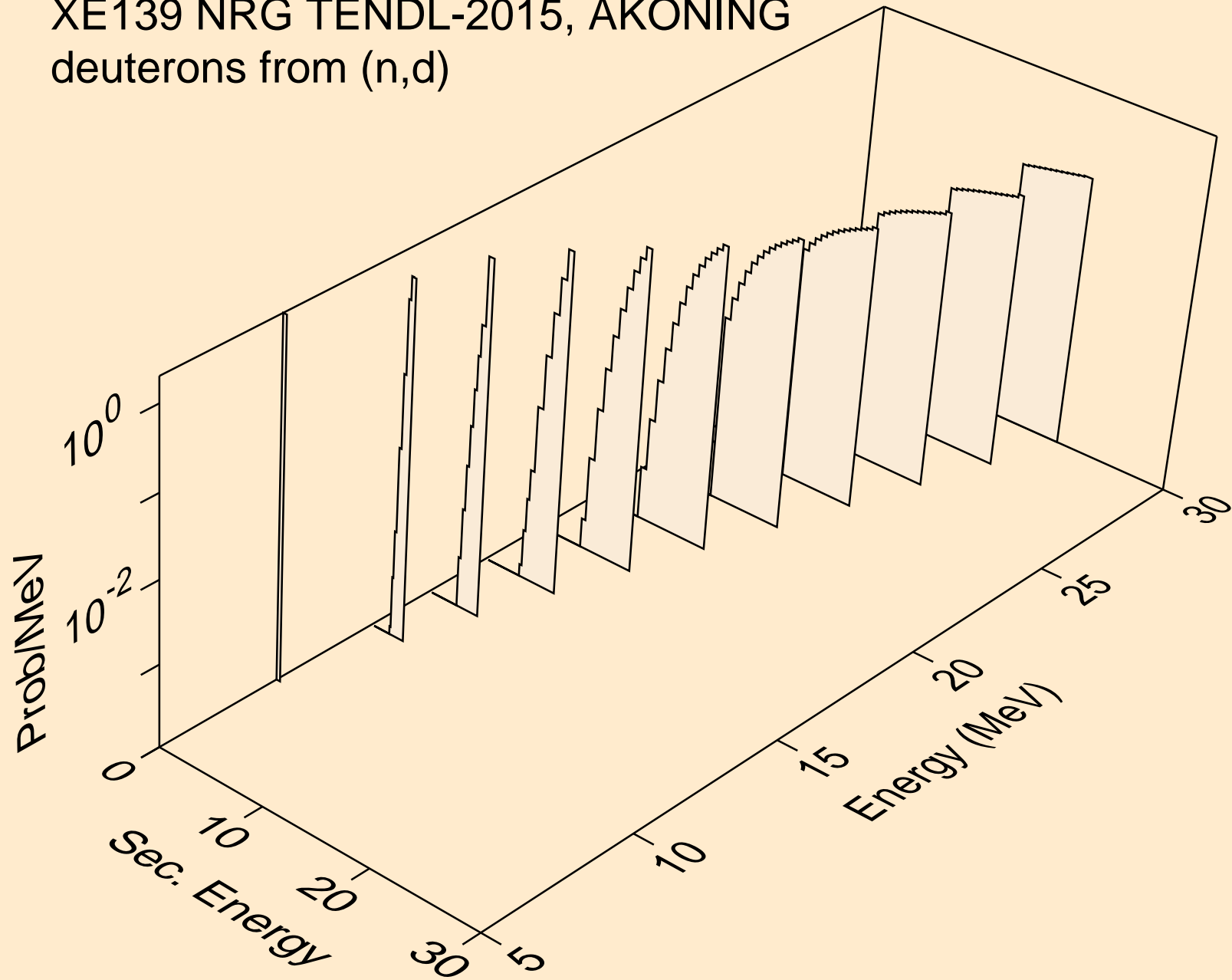
XE139 NRG TENDL-2015, AKONING  
deuterons from (n,2nd)



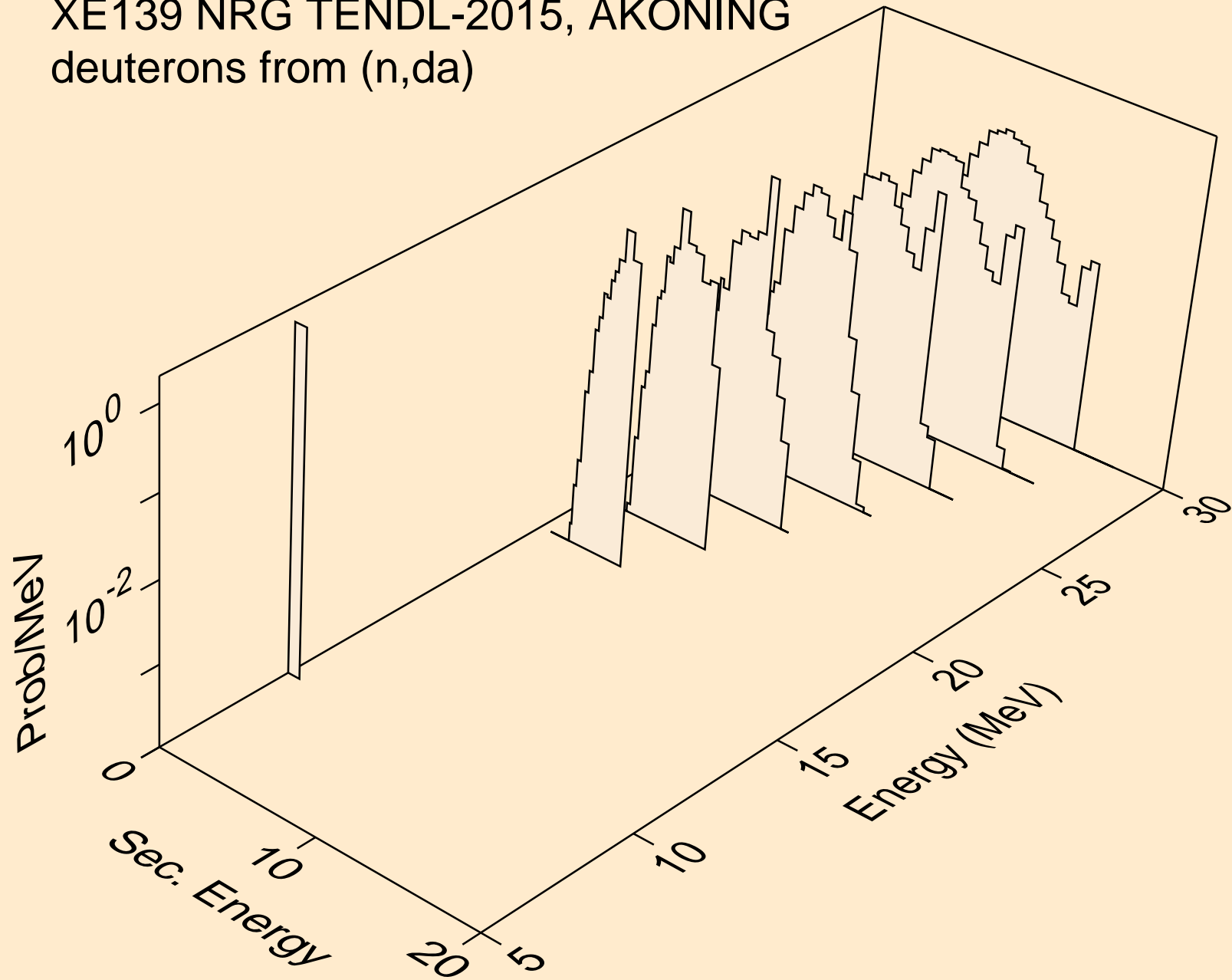
XE139 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d



XE139 NRG TENDL-2015, AKONING  
deuterons from (n,d)

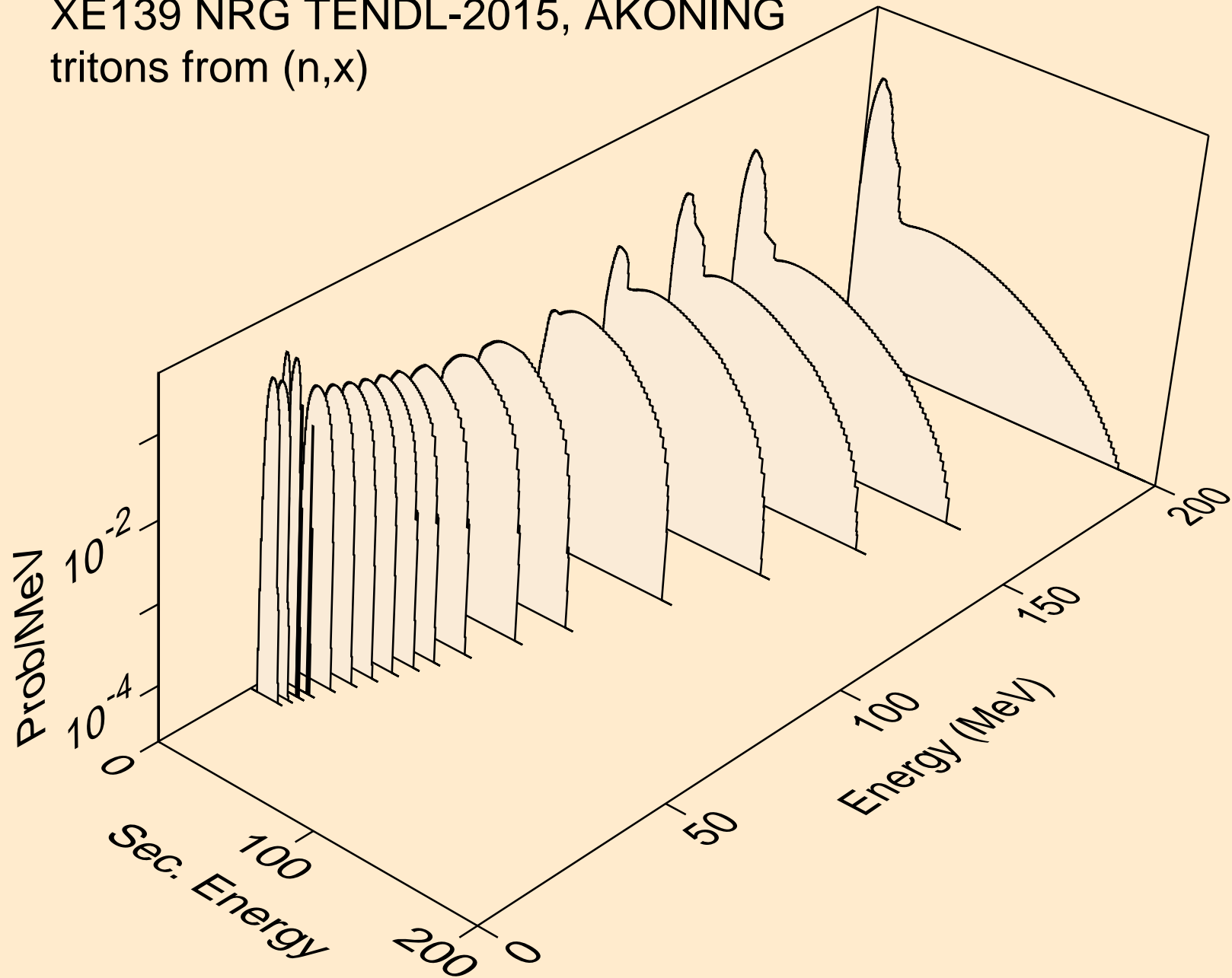


XE139 NRG TENDL-2015, AKONING  
deuterons from (n,da)

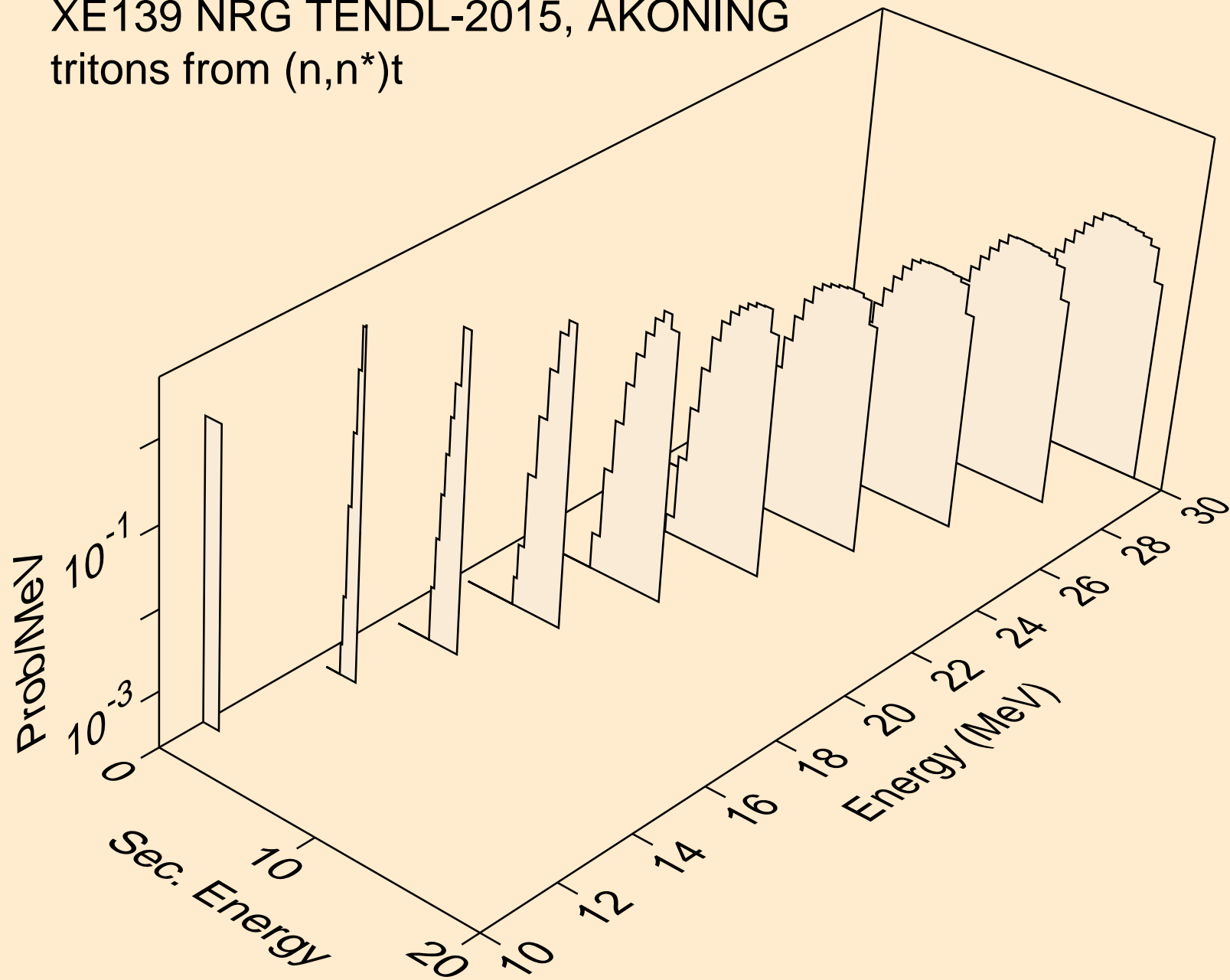




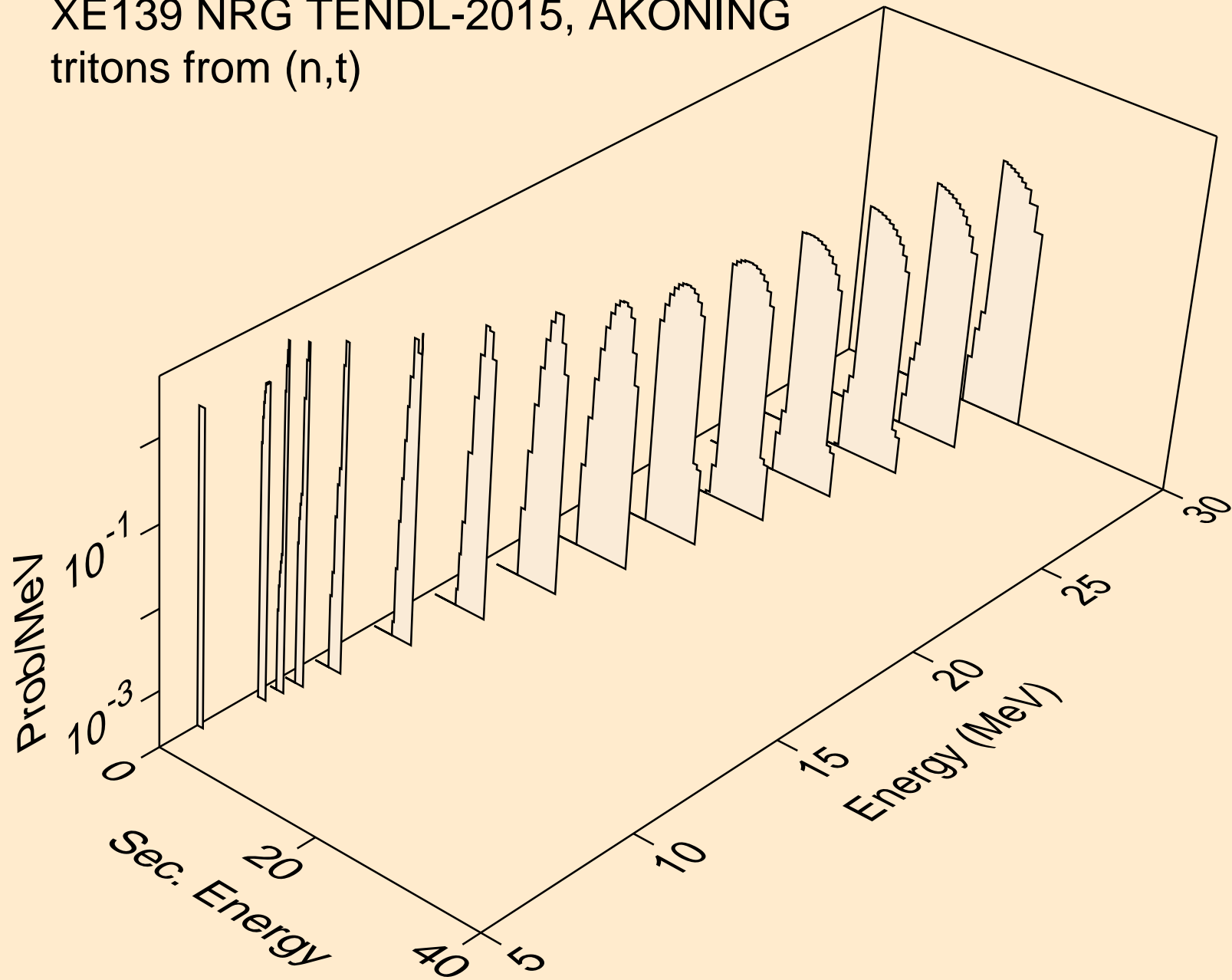
XE139 NRG TENDL-2015, AKONING  
tritons from (n,x)



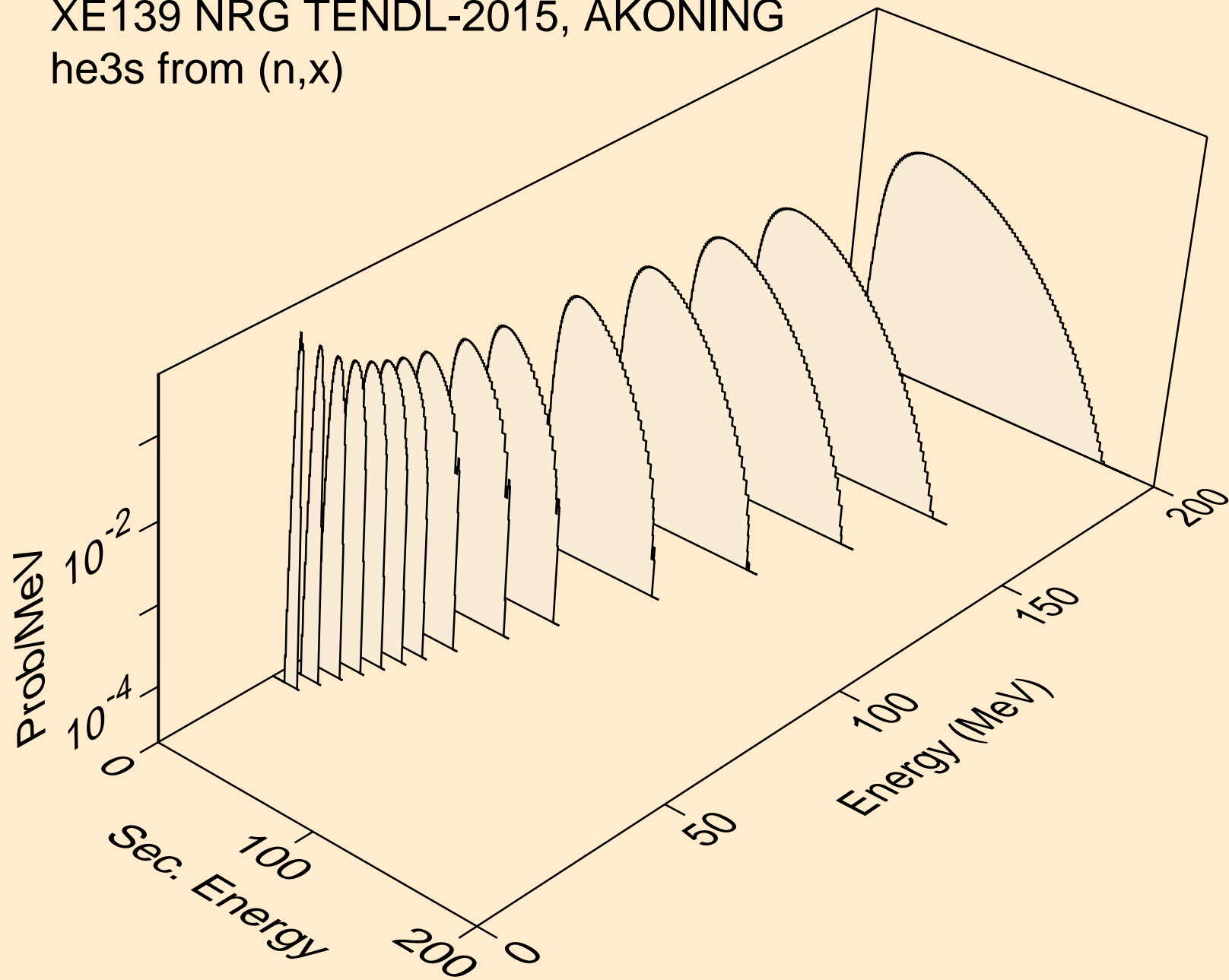
XE139 NRG TENDL-2015, AKONING  
tritons from (n,n\*)t



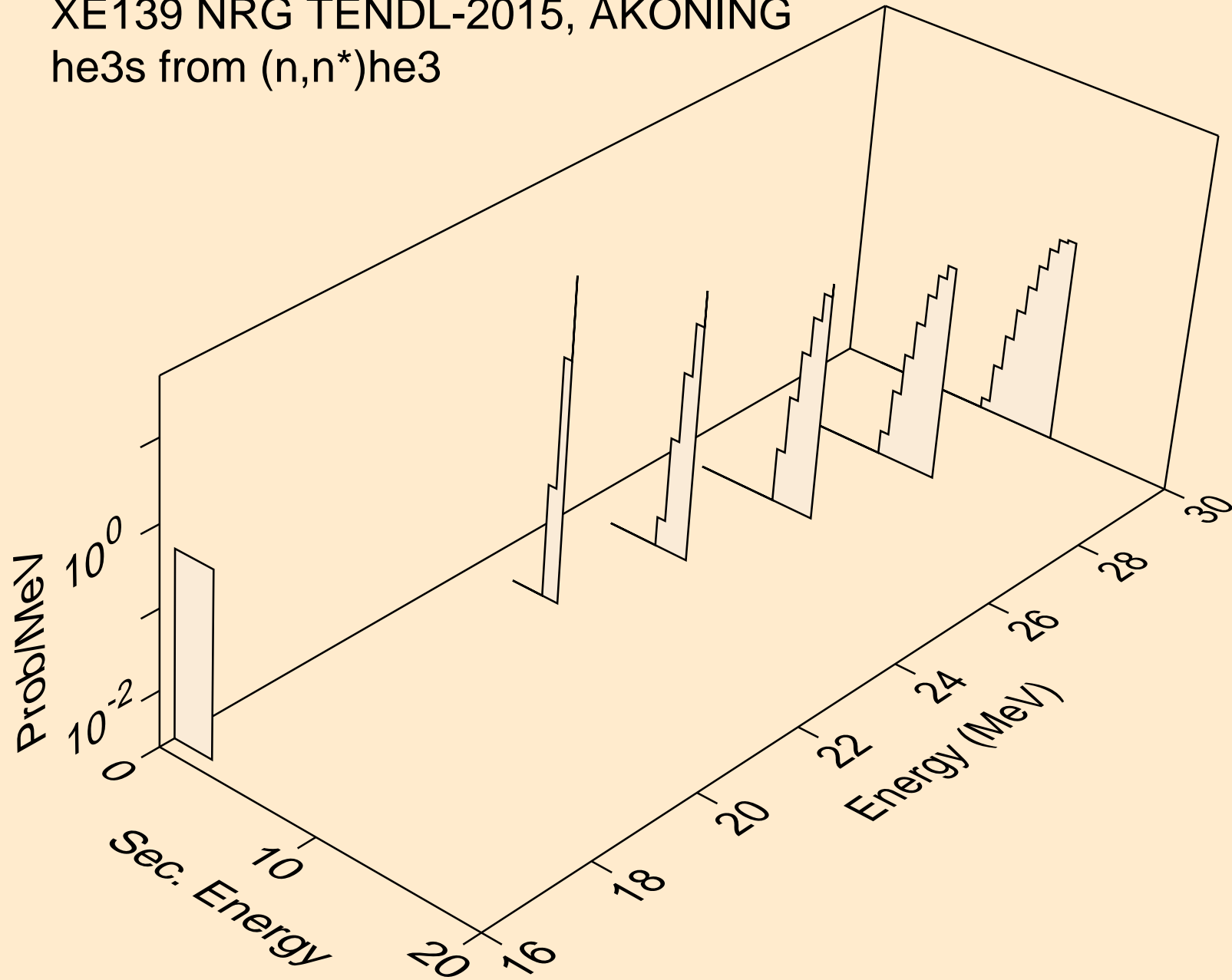
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tritons from (n,t)



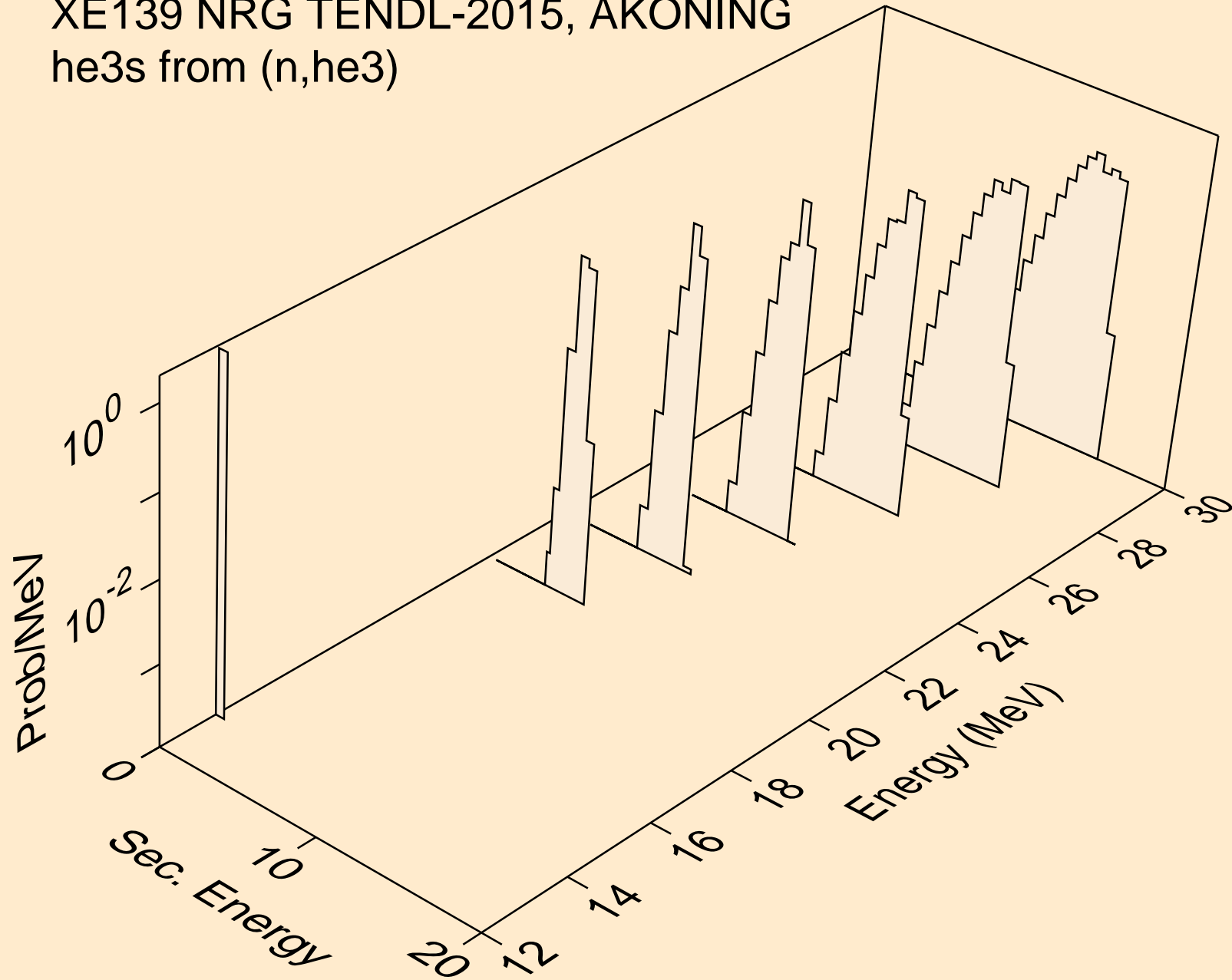
XE139 NRG TENDL-2015, AKONING  
he3s from (n,x)



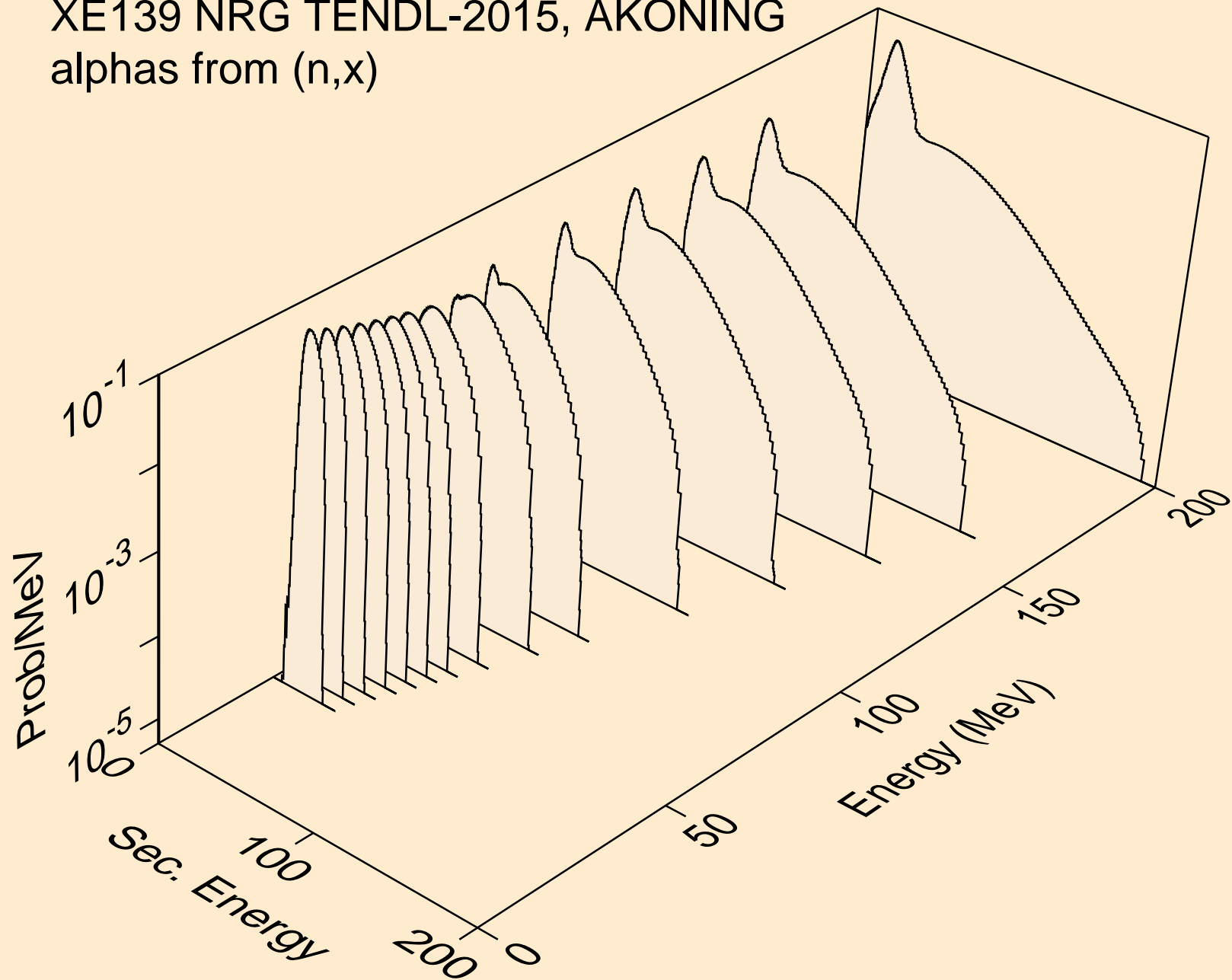
XE139 NRG TENDL-2015, AKONING  
he3s from (n,n\*)he3



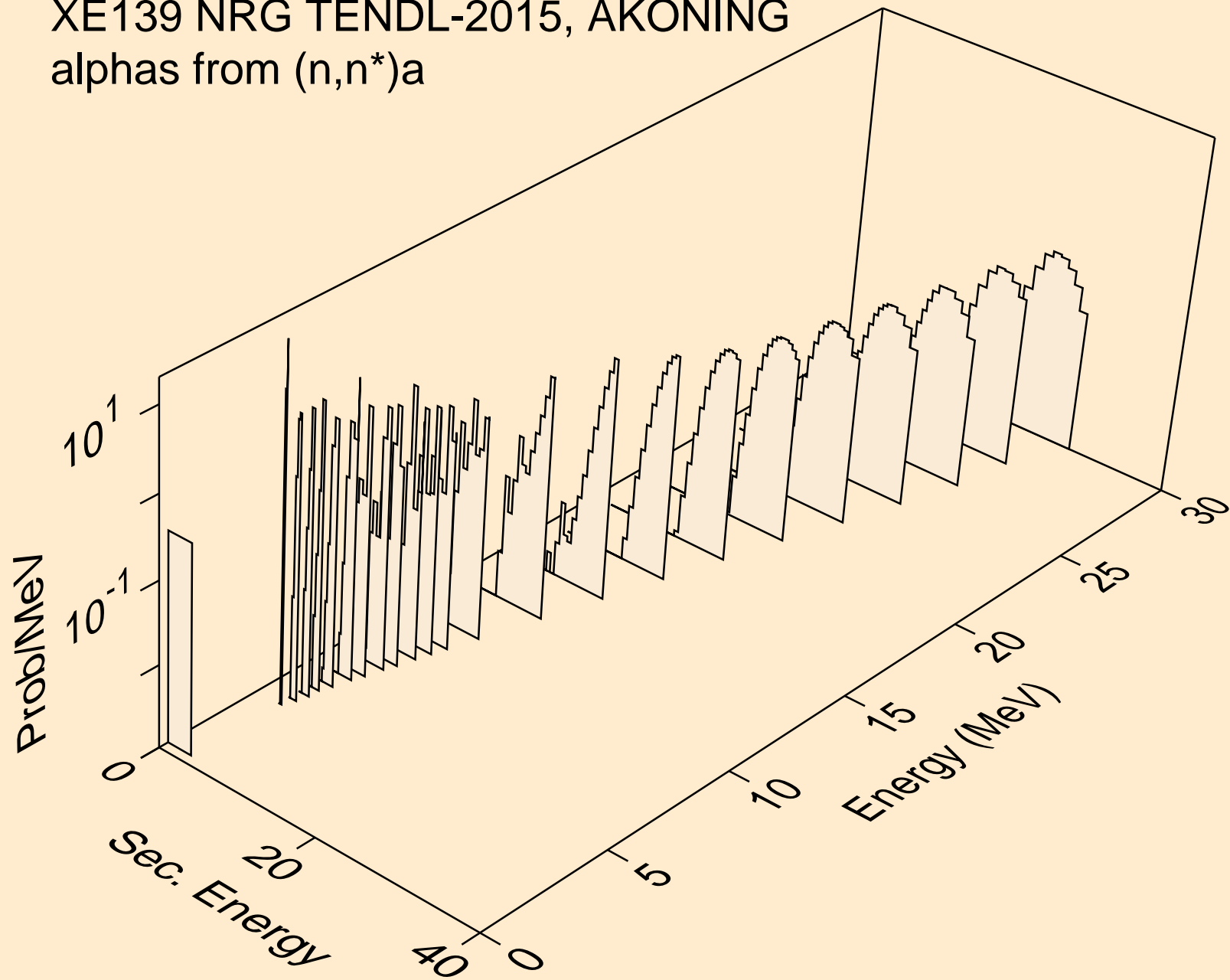
XE139 NRG TENDL-2015, AKONING  
he3s from (n,he3)



XE139 NRG TENDL-2015, AKONING  
alphas from (n,x)

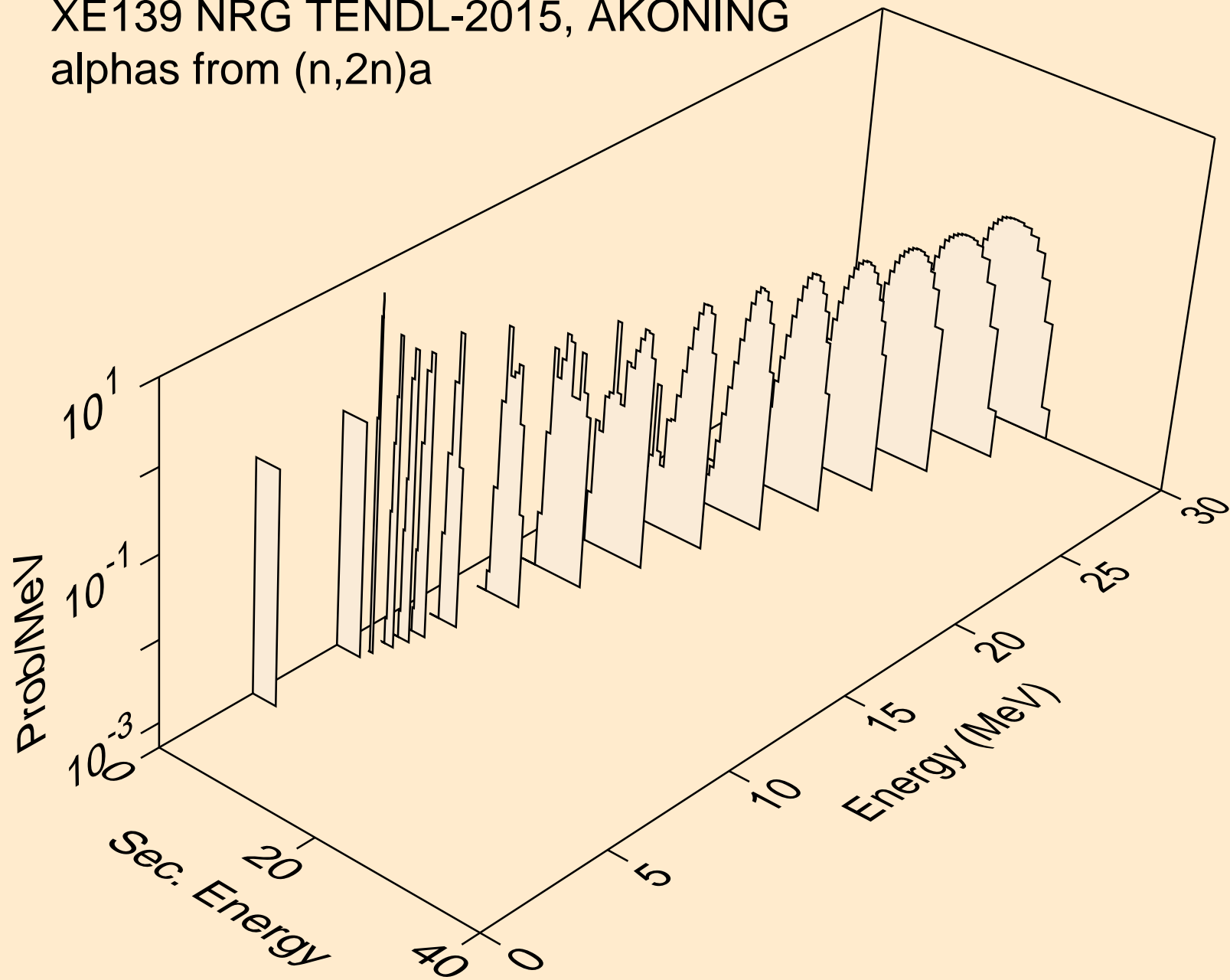


XE139 NRG TENDL-2015, AKONING  
alphas from (n,n\*)a

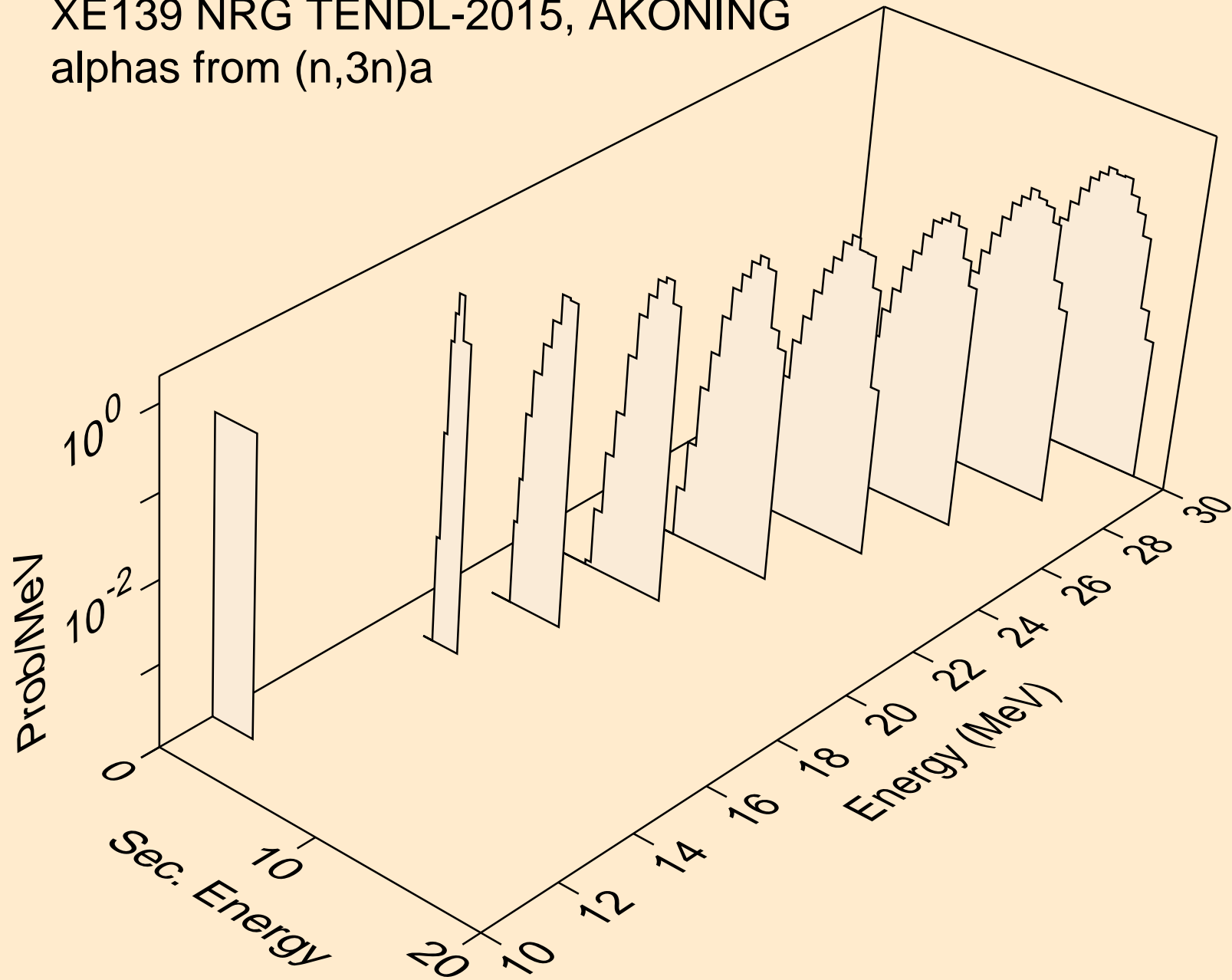




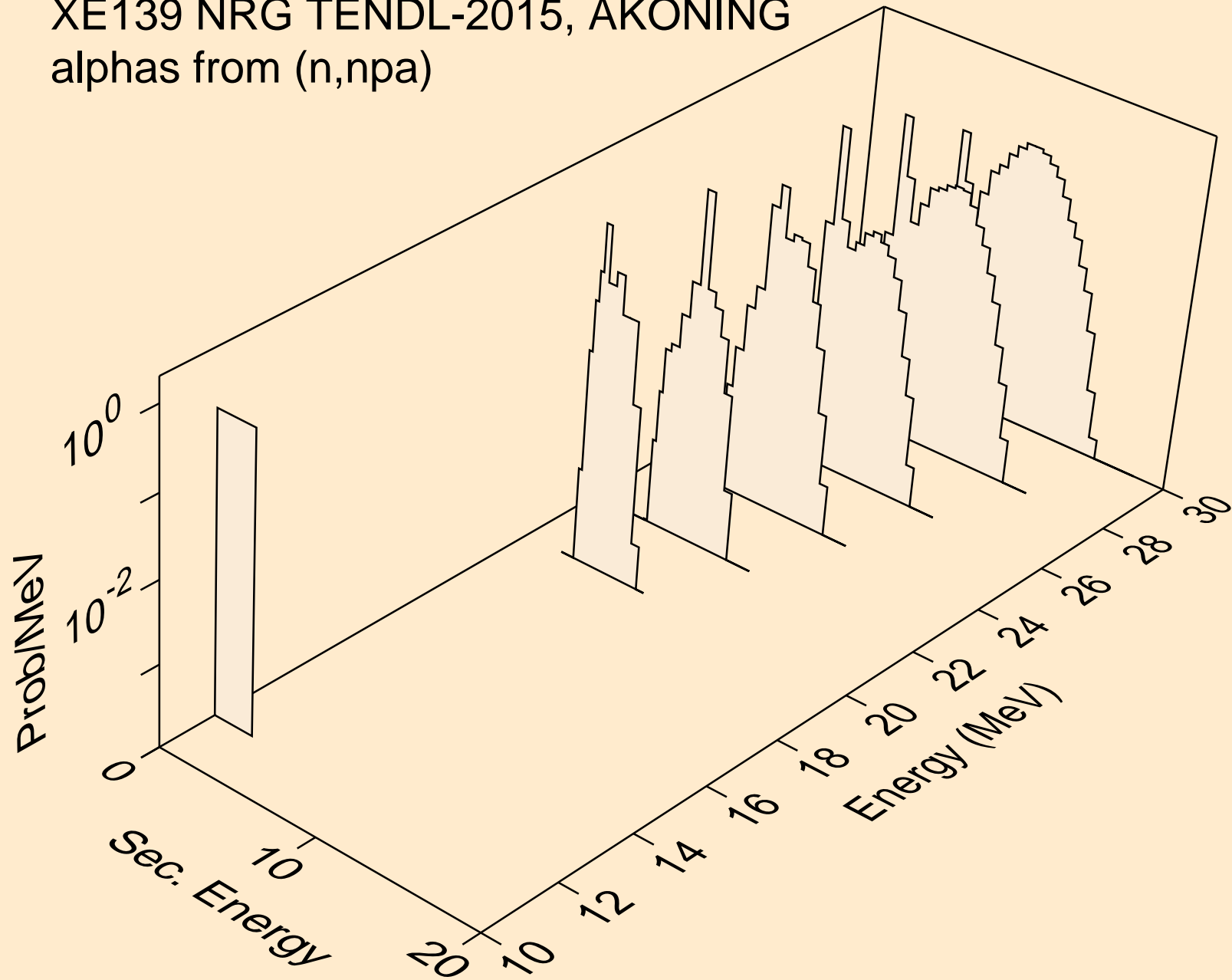
XE139 NRG TENDL-2015, AKONING  
alphas from (n,2n)a



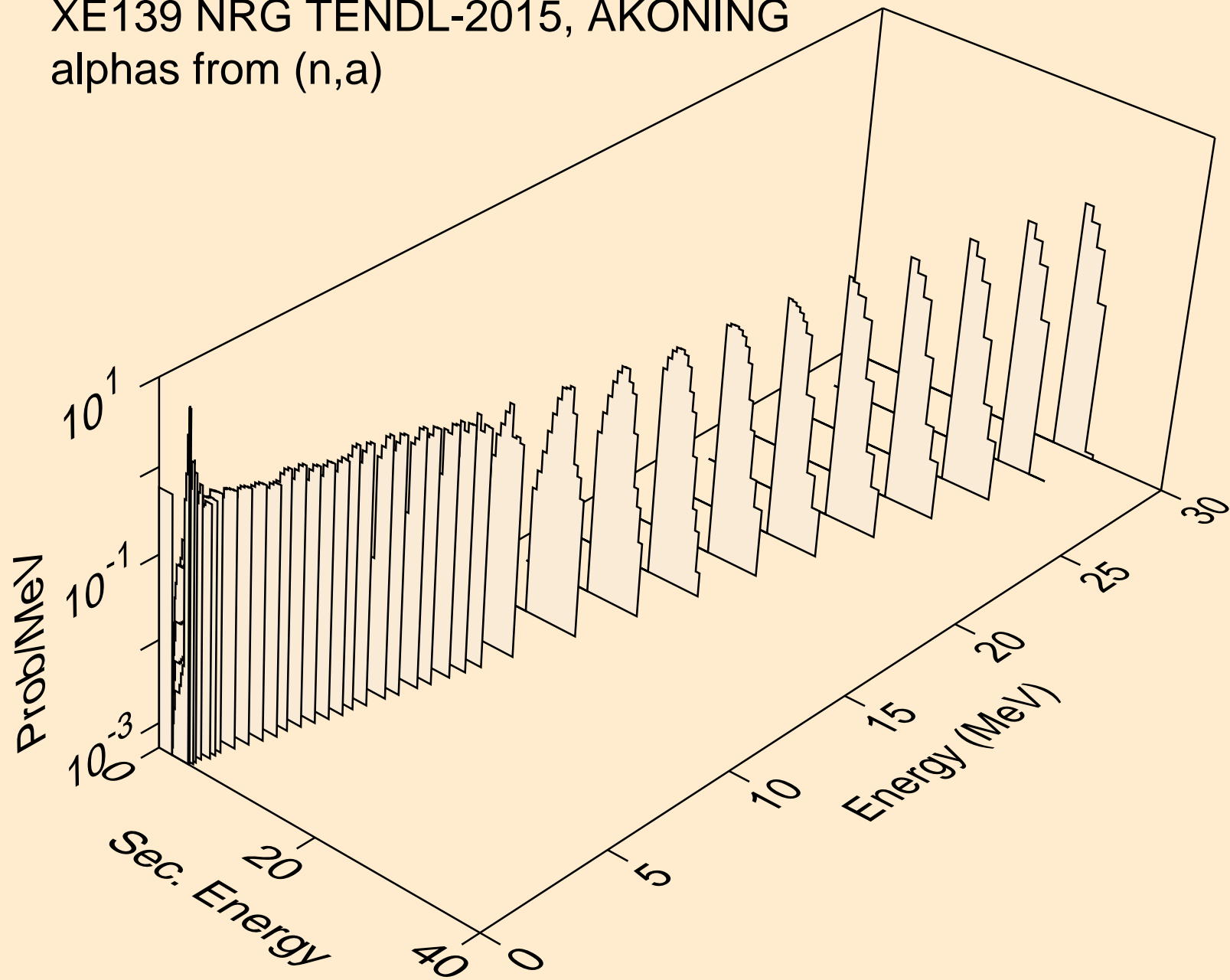
XE139 NRG TENDL-2015, AKONING  
alphas from (n,3n)a



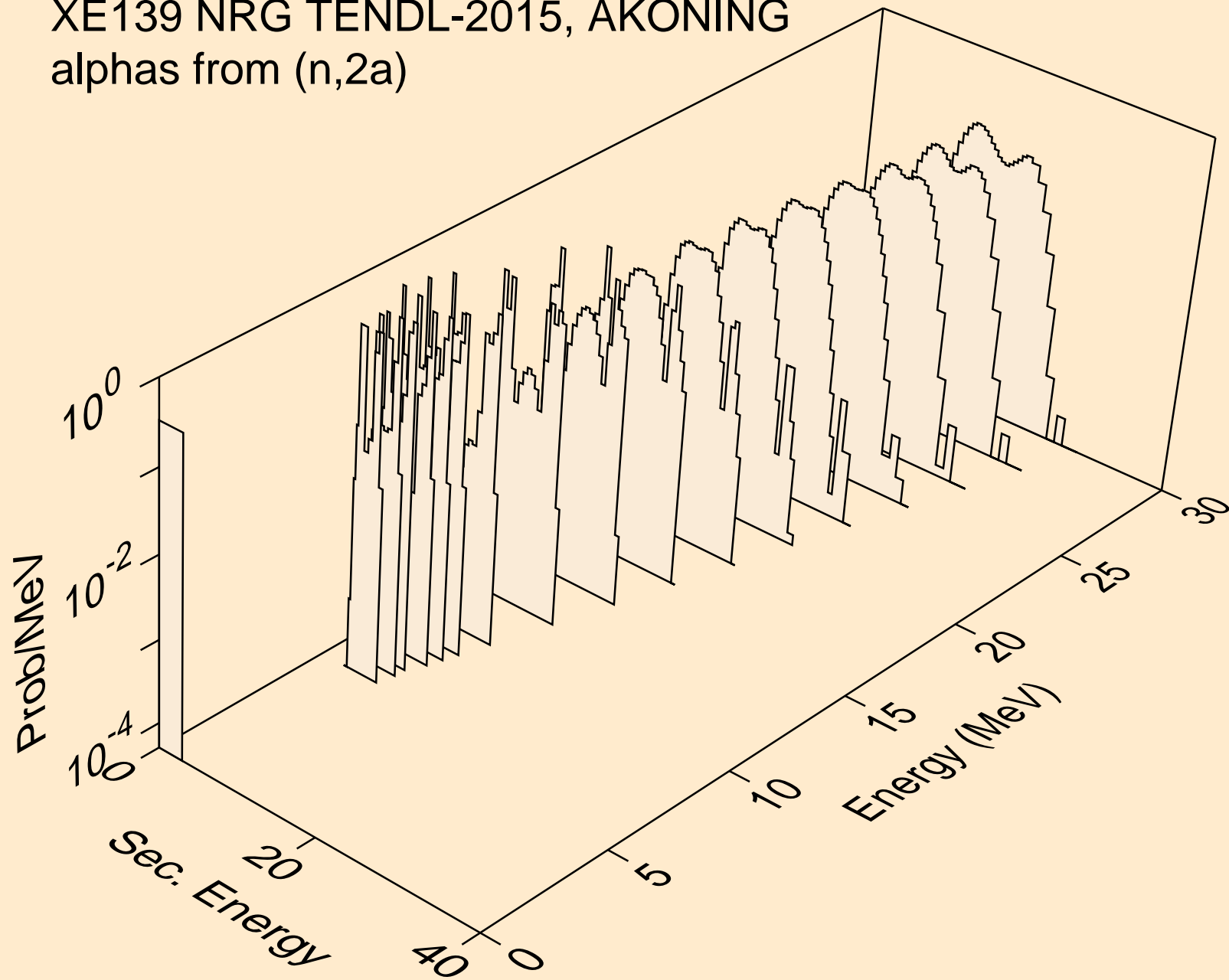
XE139 NRG TENDL-2015, AKONING  
alphas from (n,npa)



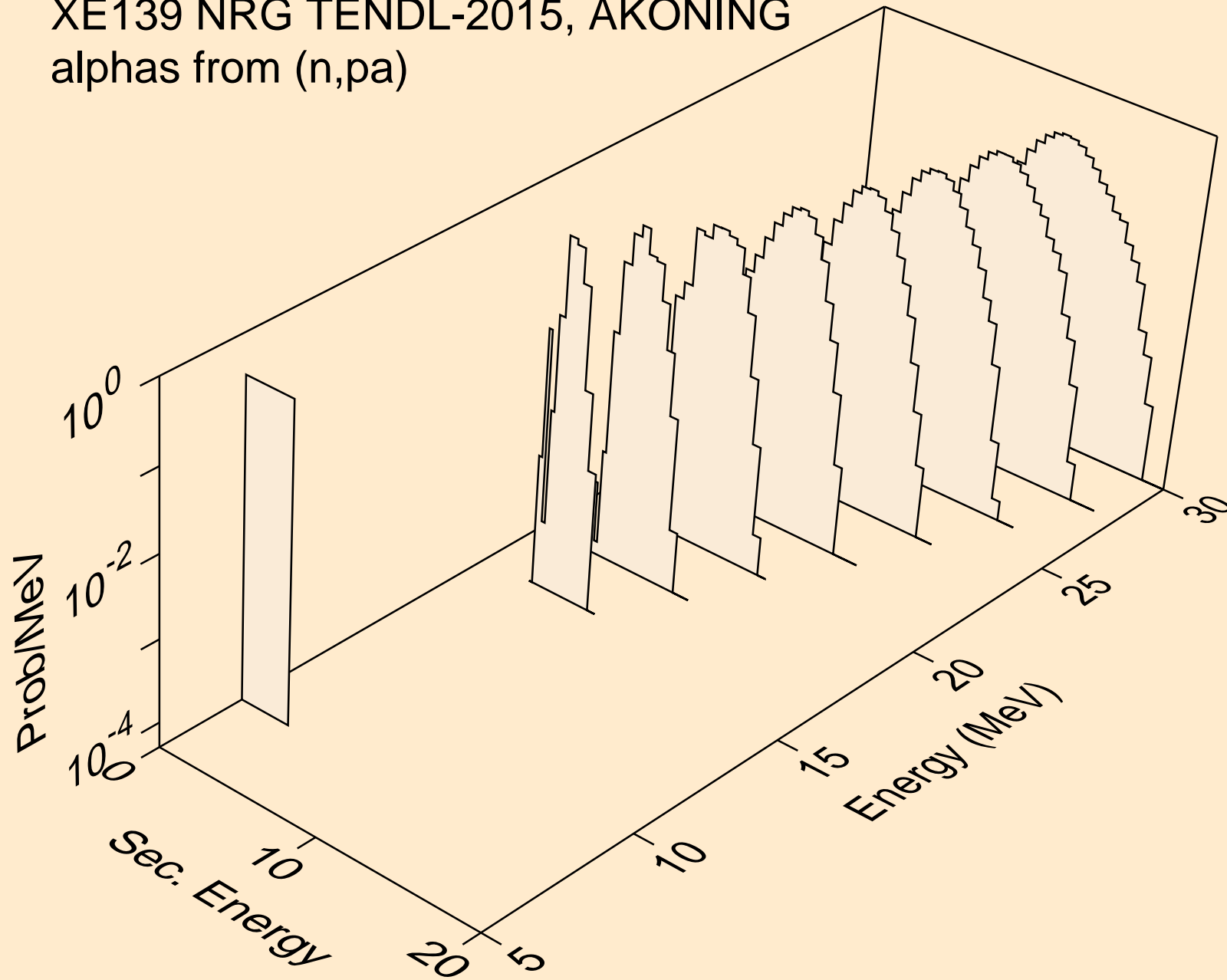
XE139 NRG TENDL-2015, AKONING  
alphas from (n,a)



XE139 NRG TENDL-2015, AKONING  
alphas from (n,2a)



XE139 NRG TENDL-2015, AKONING  
alphas from (n,pa)



XE139 NRG TENDL-2015, AKONING  
alphas from (n,da)

