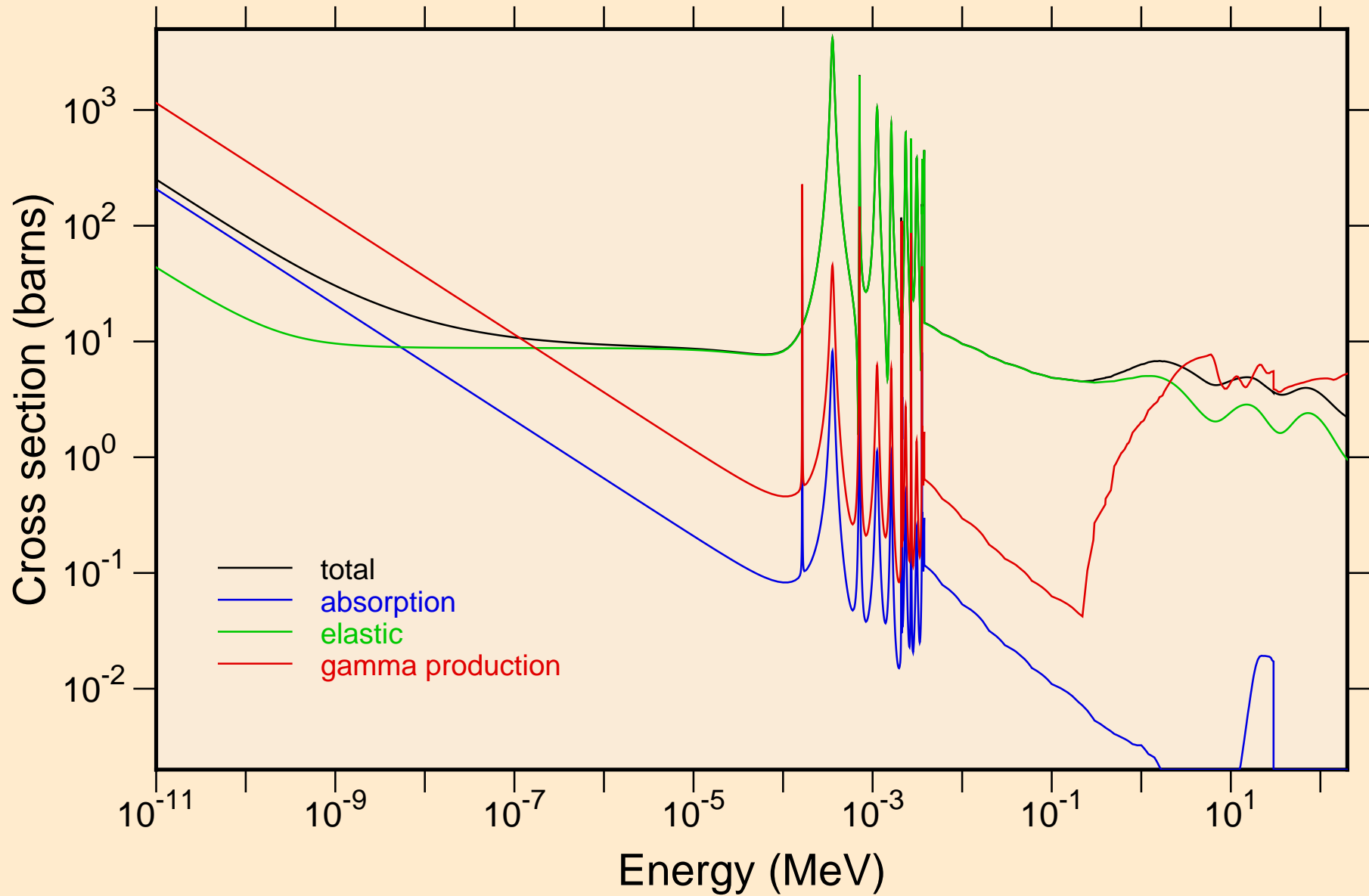


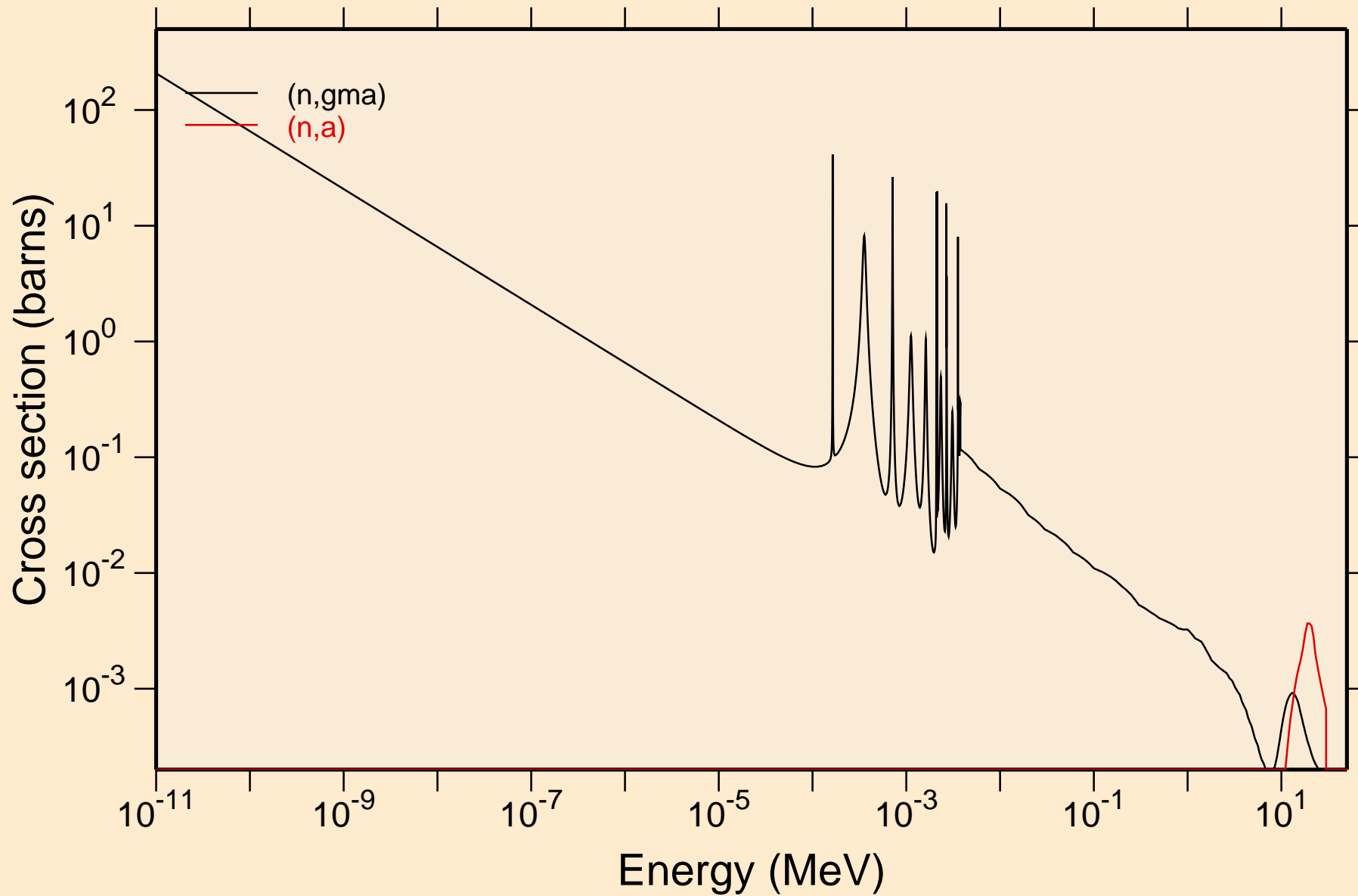
# CS139 NRG TENDL-2015, AKONING

## Principal cross sections



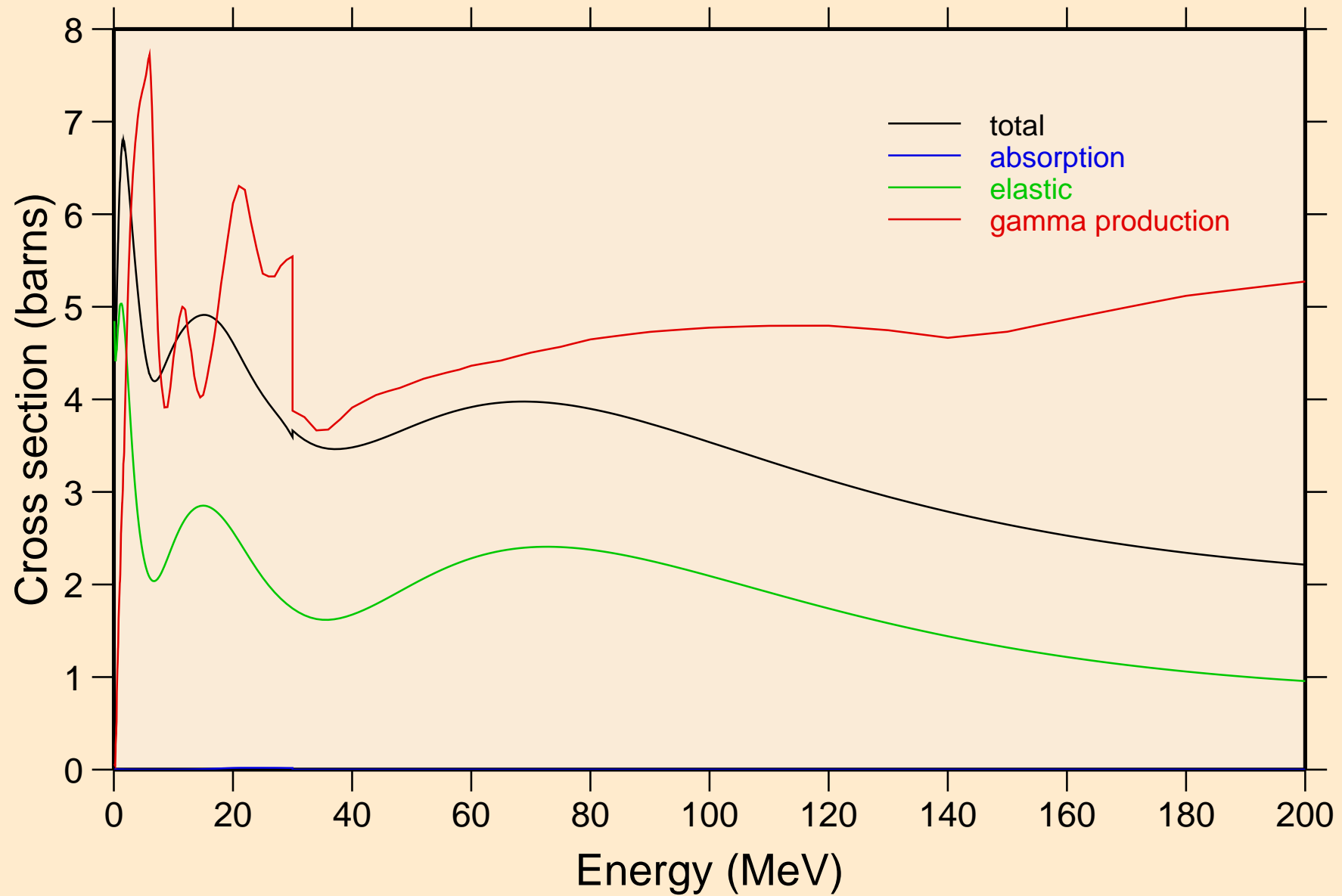
# CS139 NRG TENDL-2015, AKONING

## Non-threshold reactions



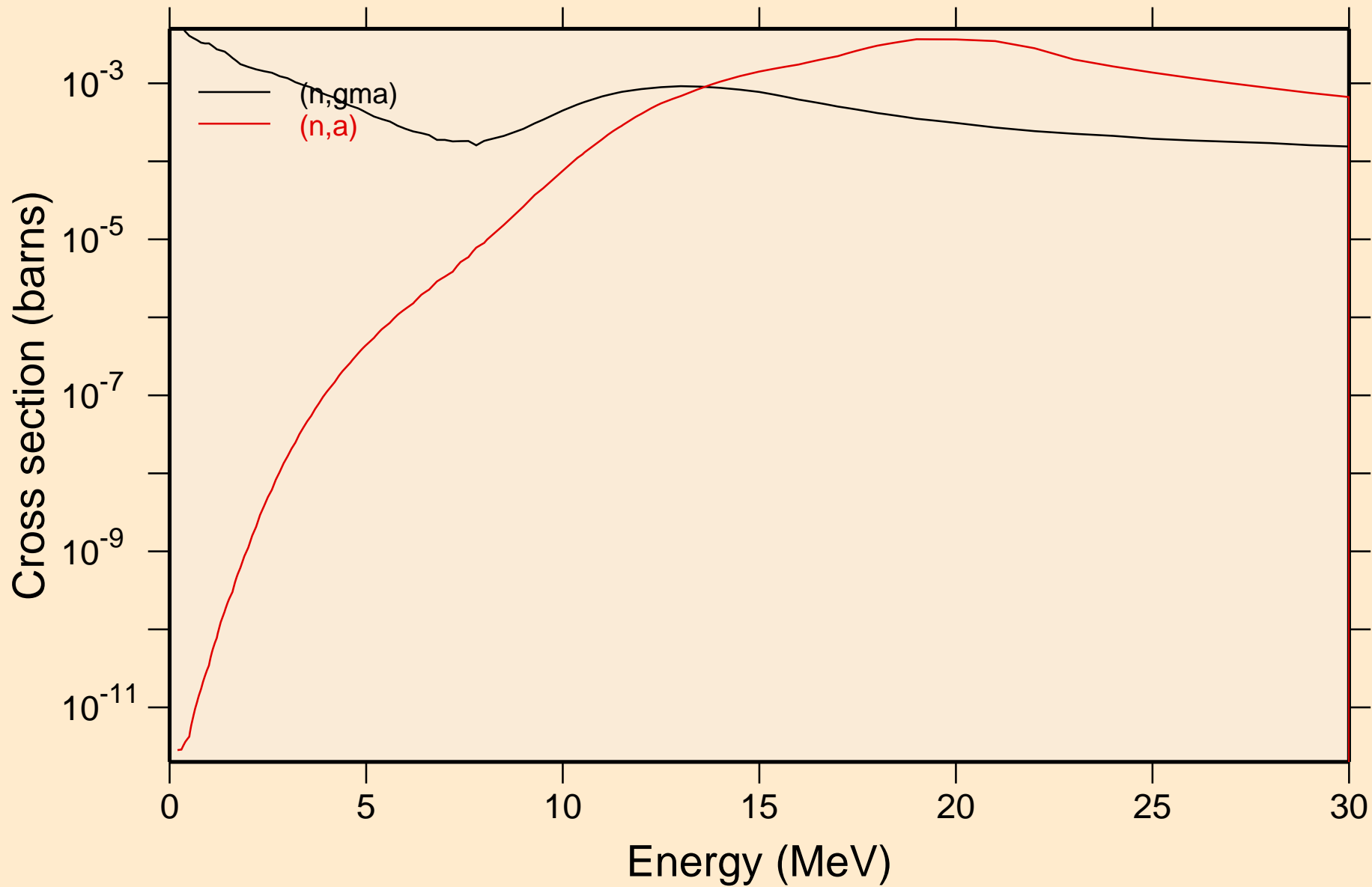
# CS139 NRG TENDL-2015, AKONING

## Principal cross sections



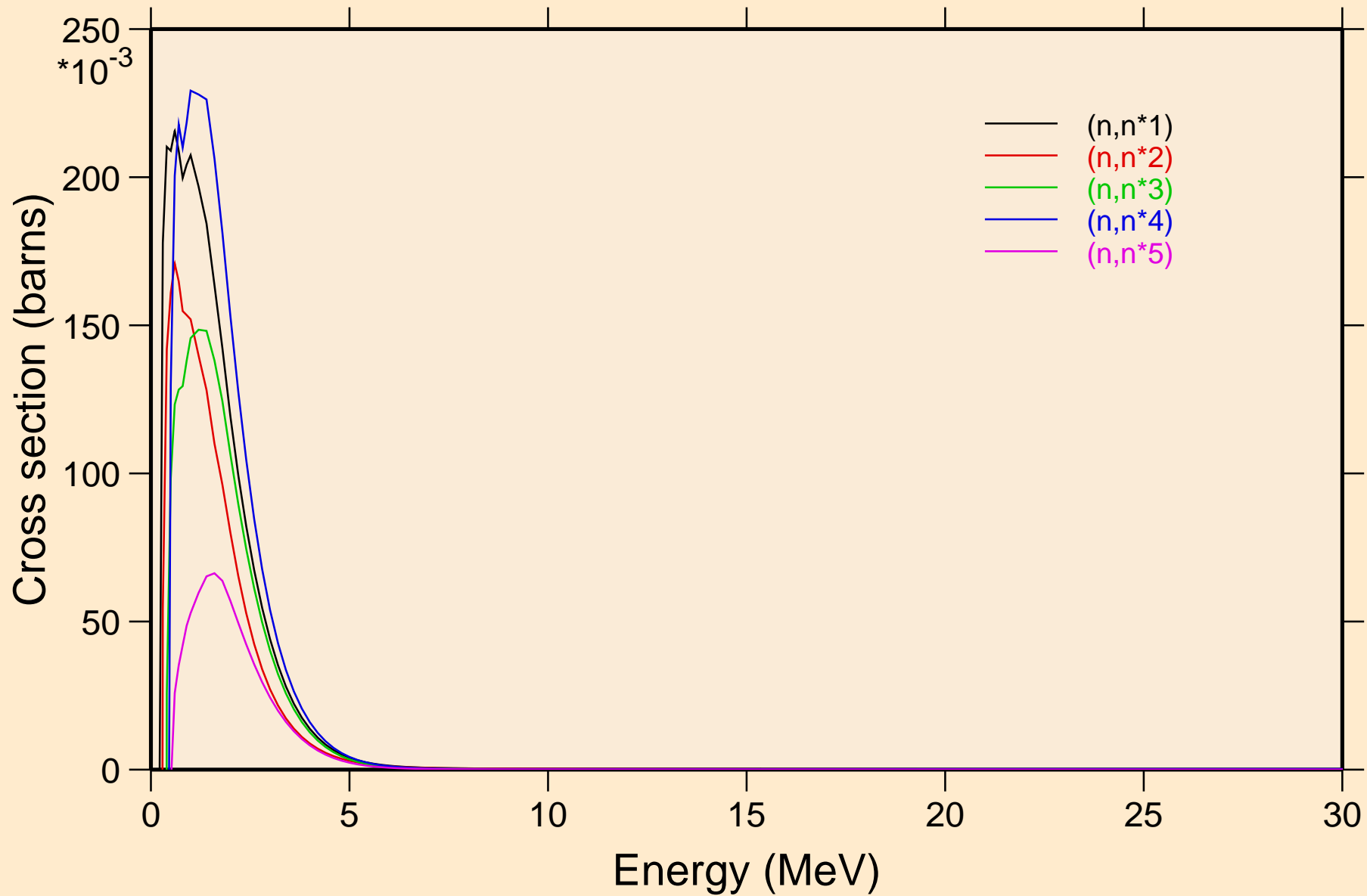
# CS139 NRG TENDL-2015, AKONING

## Non-threshold reactions



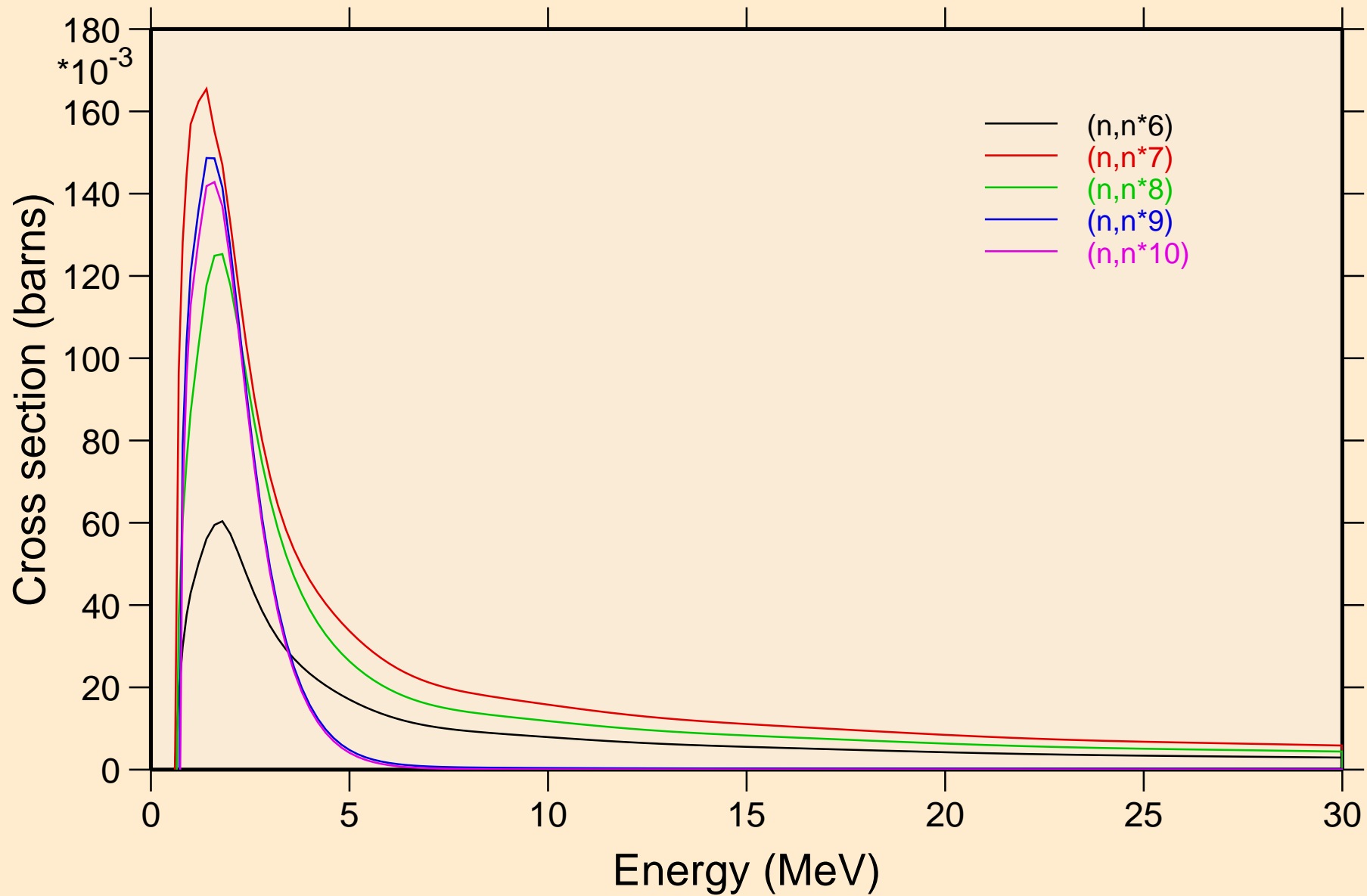
# CS139 NRG TENDL-2015, AKONING

## Inelastic levels



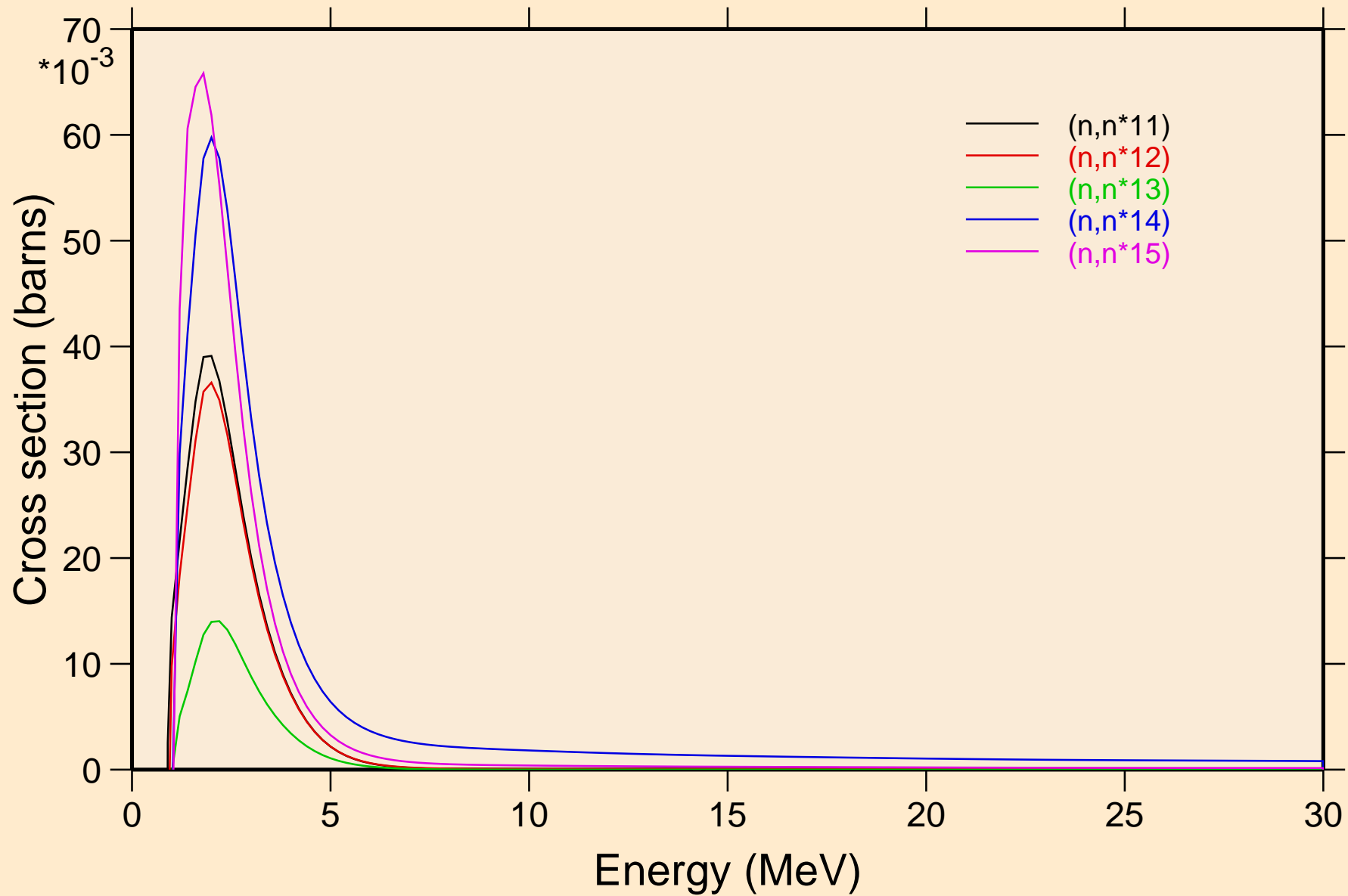
# CS139 NRG TENDL-2015, AKONING

## Inelastic levels



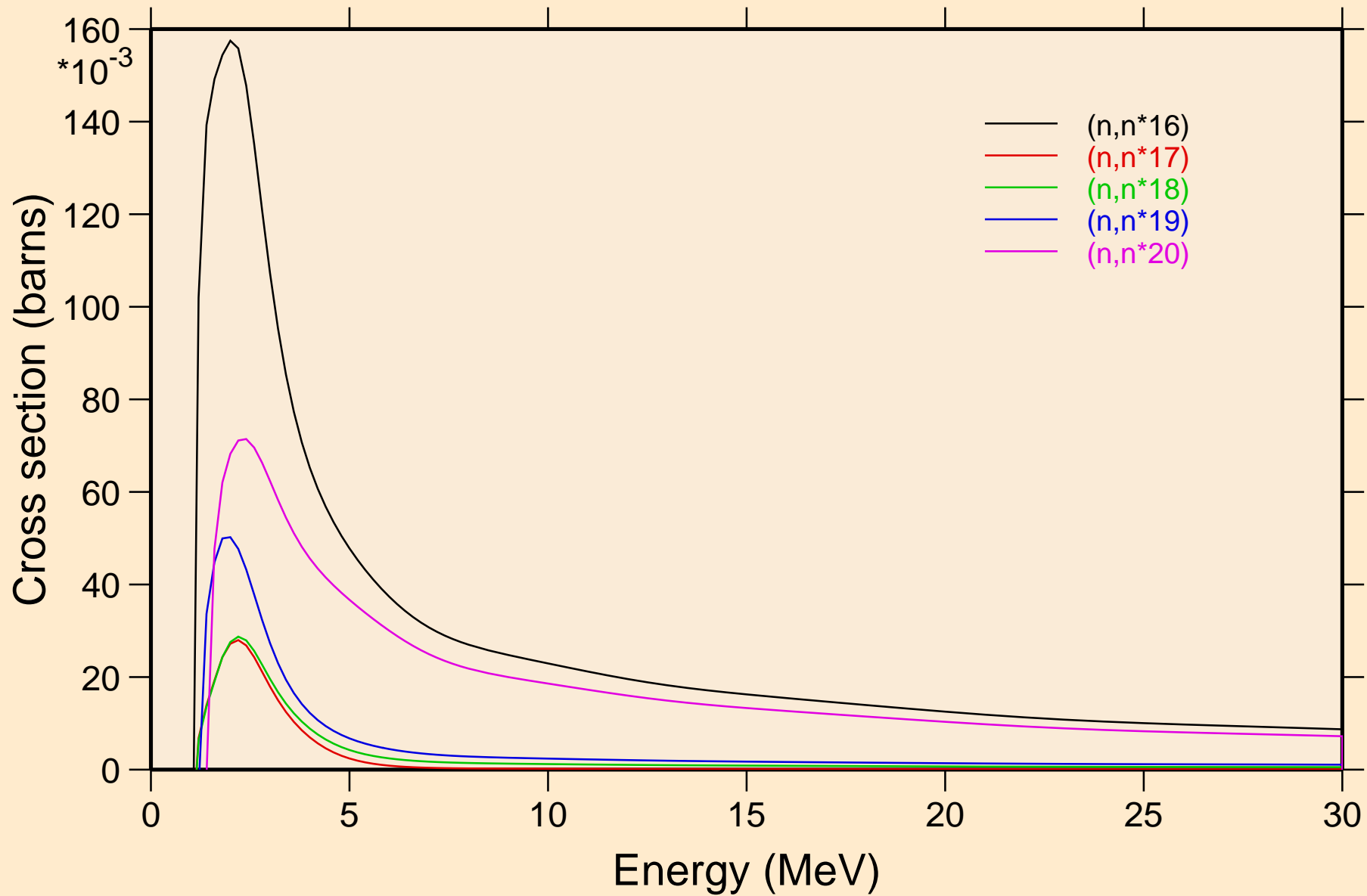
# CS139 NRG TENDL-2015, AKONING

## Inelastic levels



# CS139 NRG TENDL-2015, AKONING

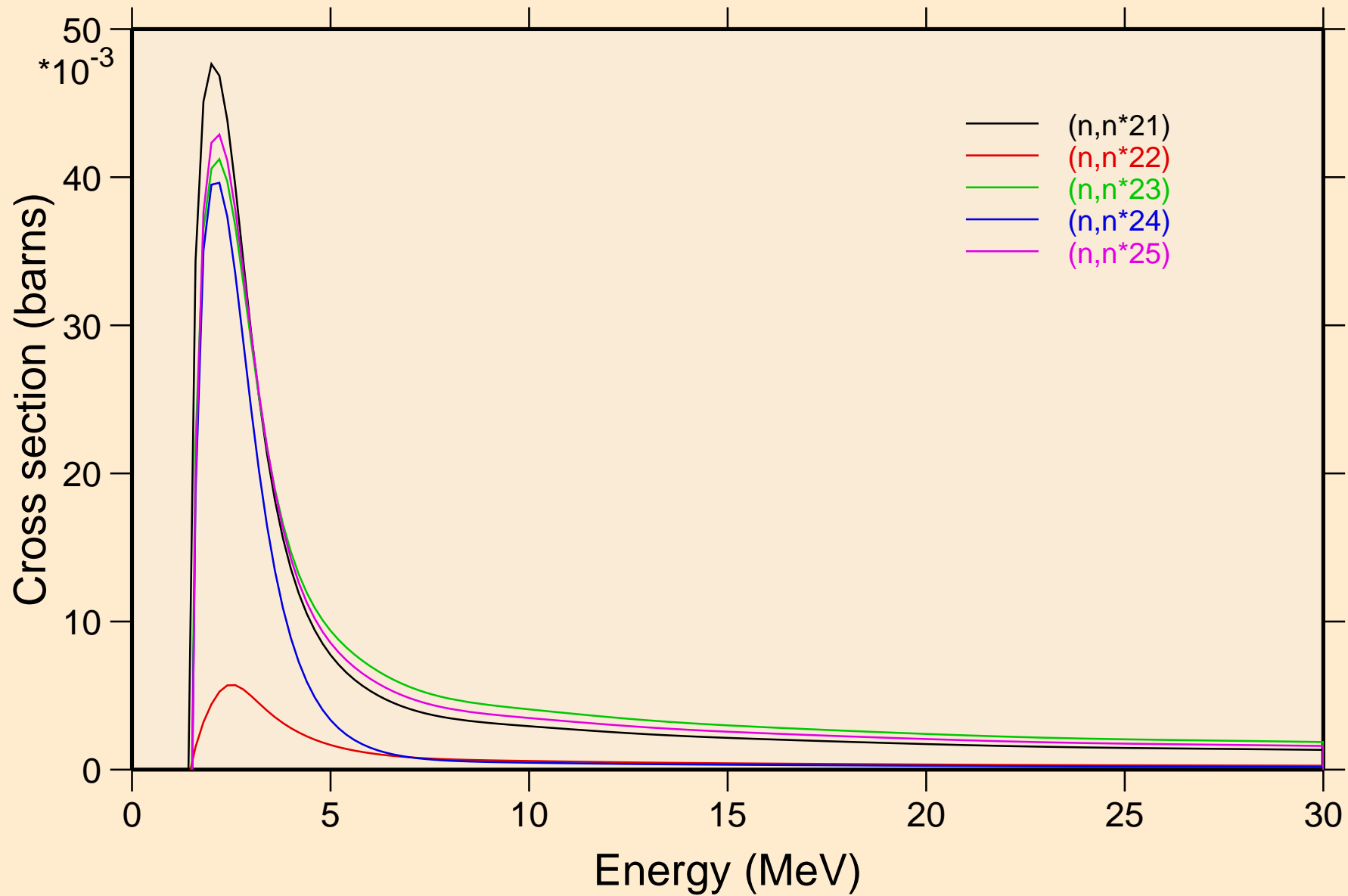
## Inelastic levels





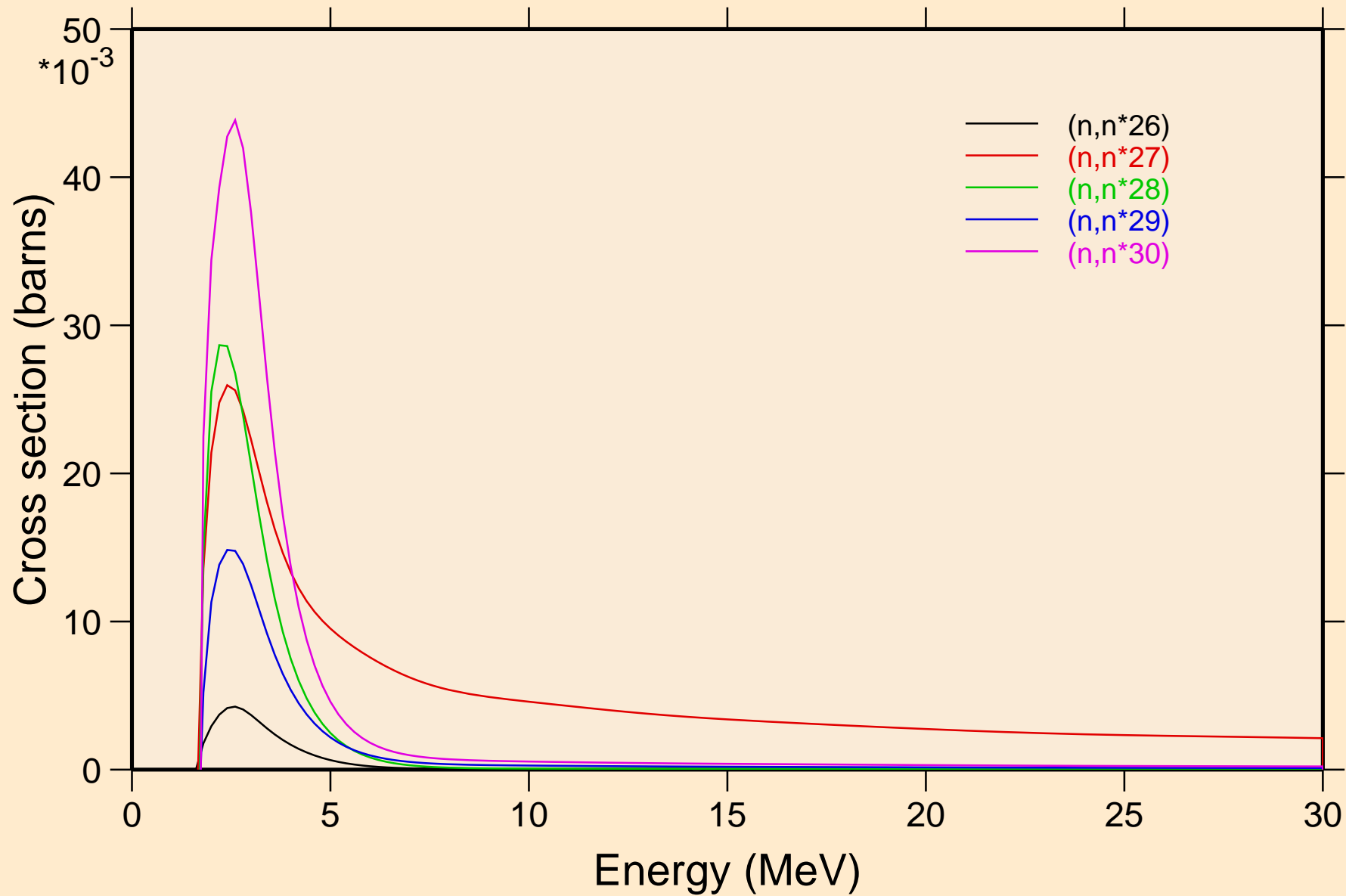
# CS139 NRG TENDL-2015, AKONING

## Inelastic levels



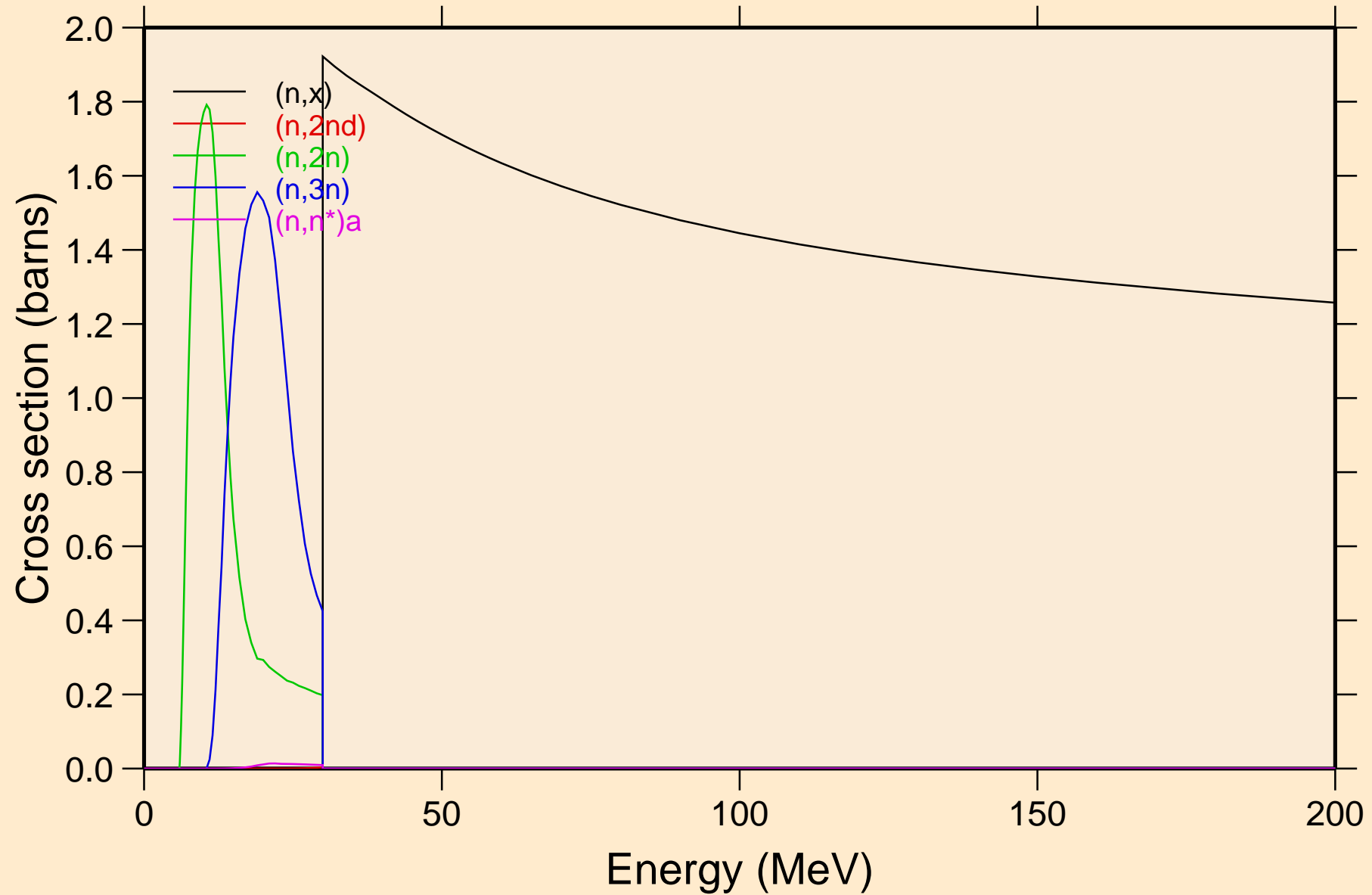
# CS139 NRG TENDL-2015, AKONING

## Inelastic levels



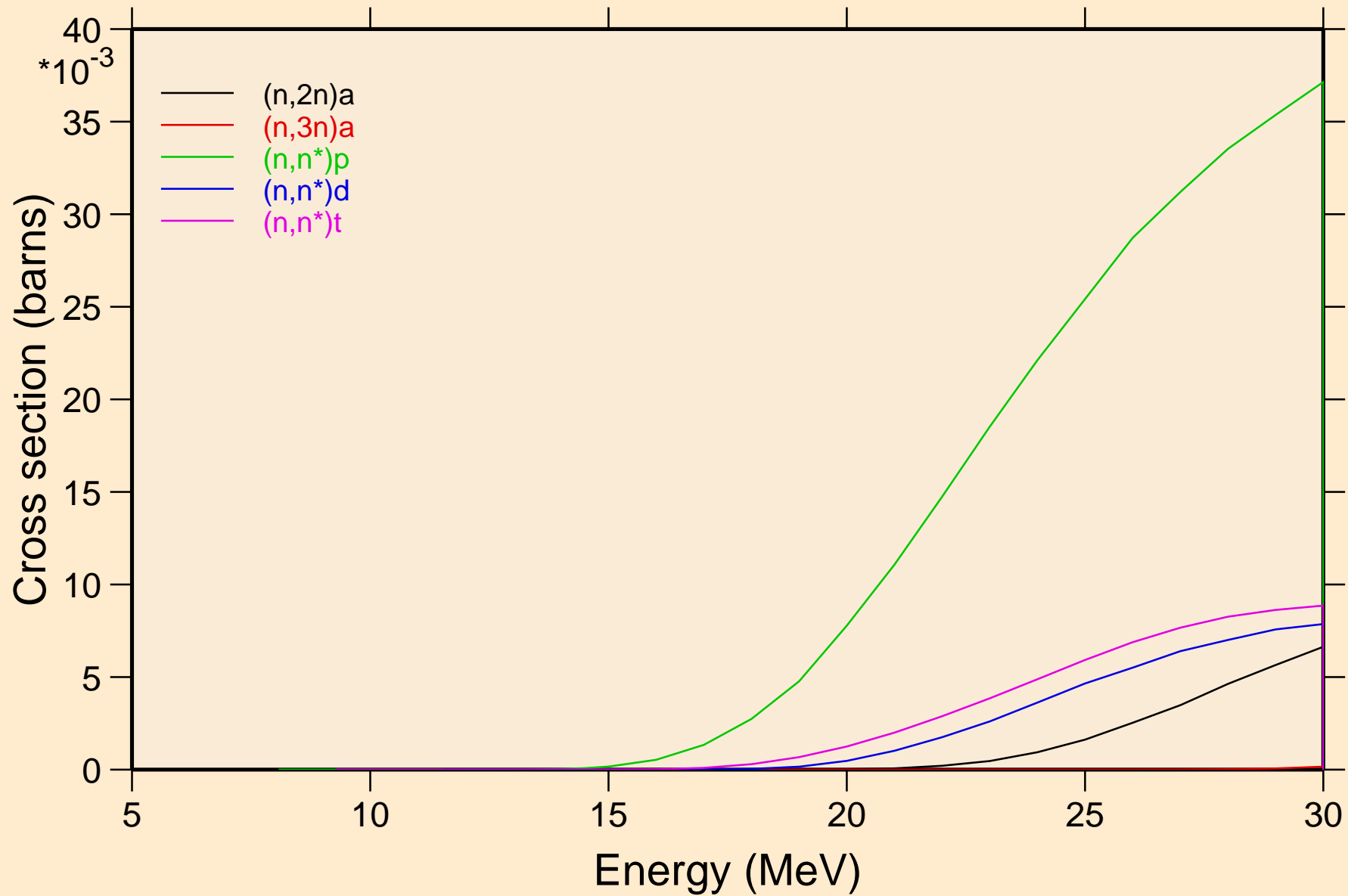
# CS139 NRG TENDL-2015, AKONING

## Threshold reactions



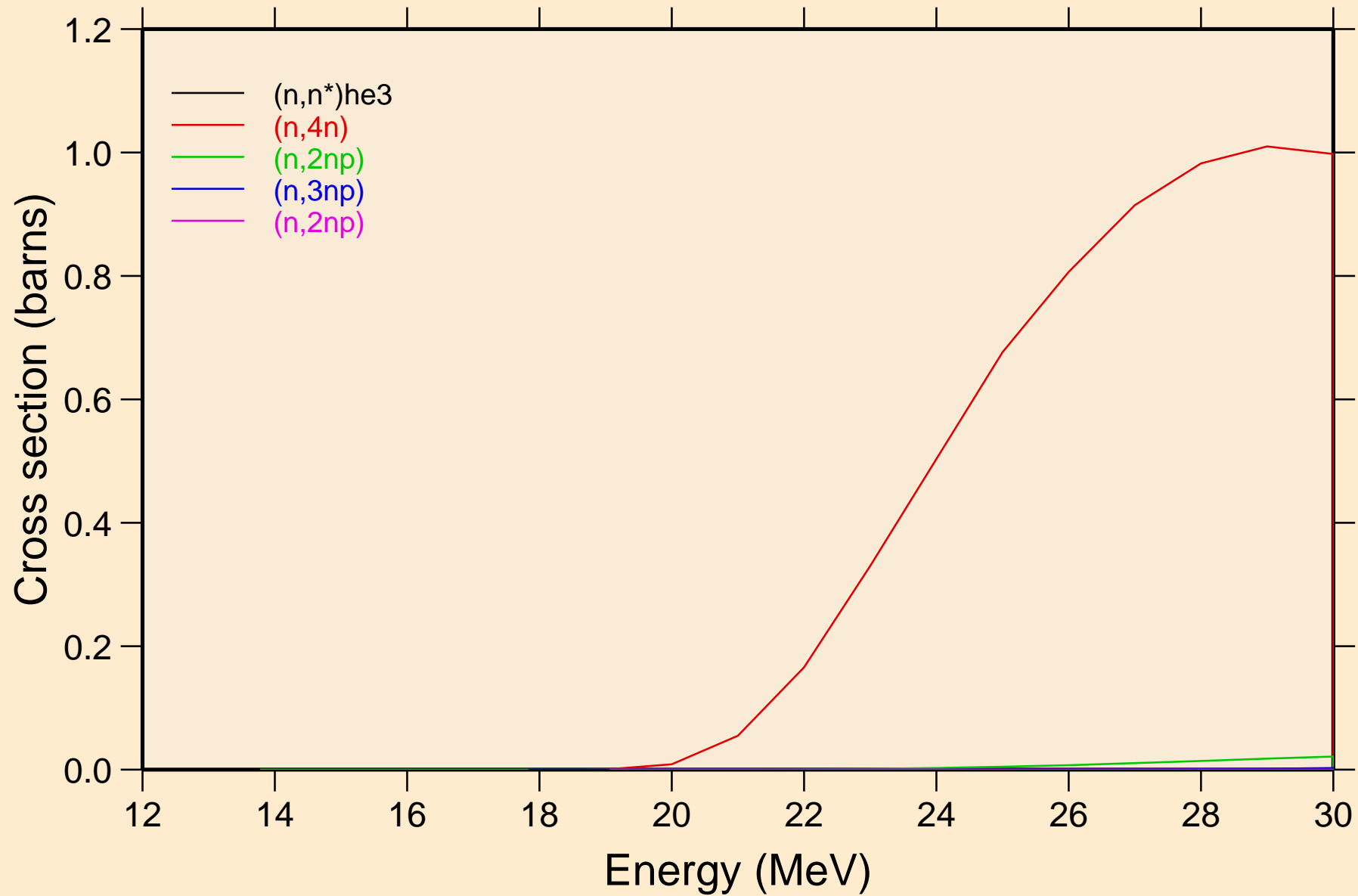
# CS139 NRG TENDL-2015, AKONING

## Threshold reactions



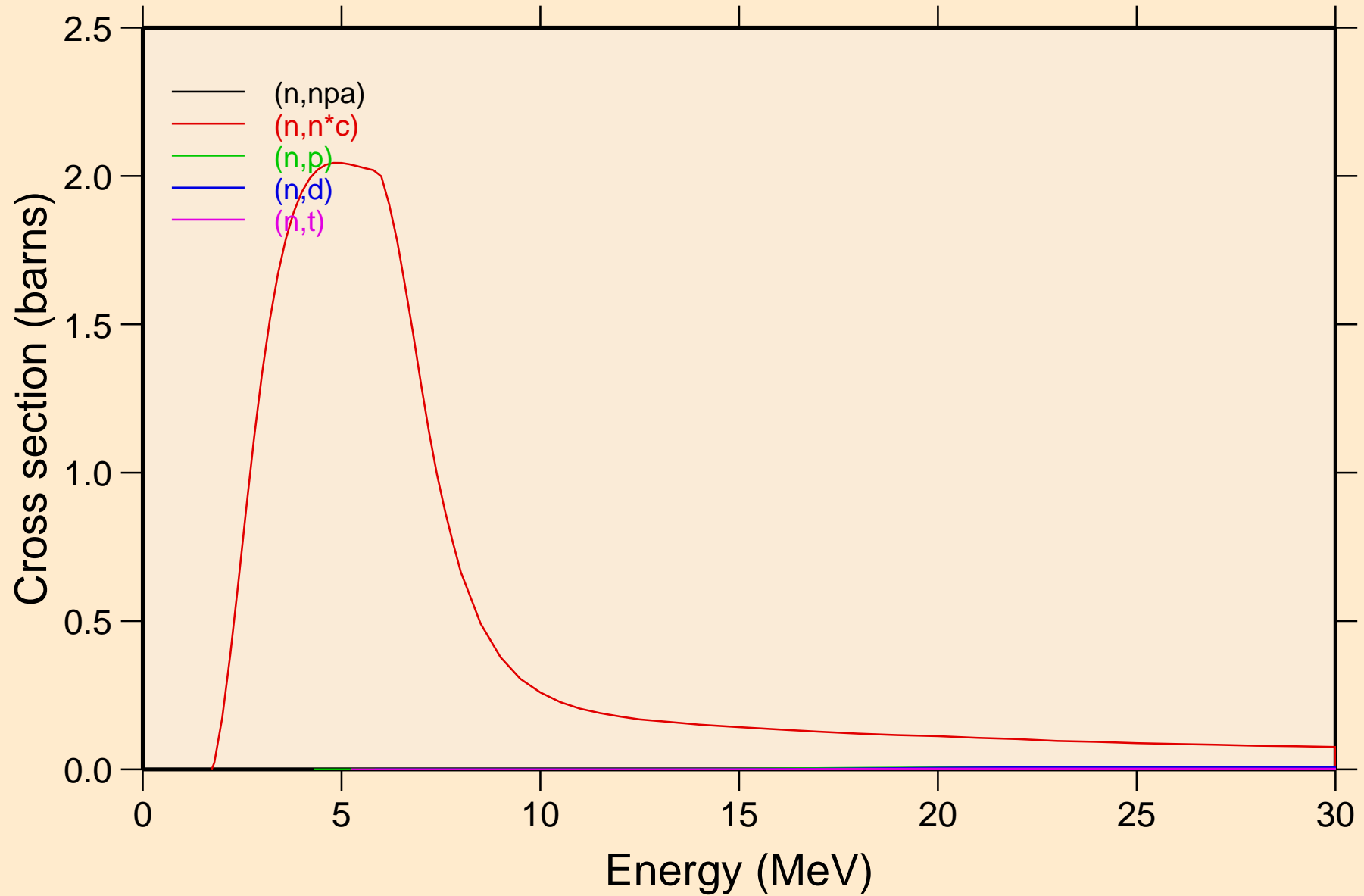
# CS139 NRG TENDL-2015, AKONING

## Threshold reactions



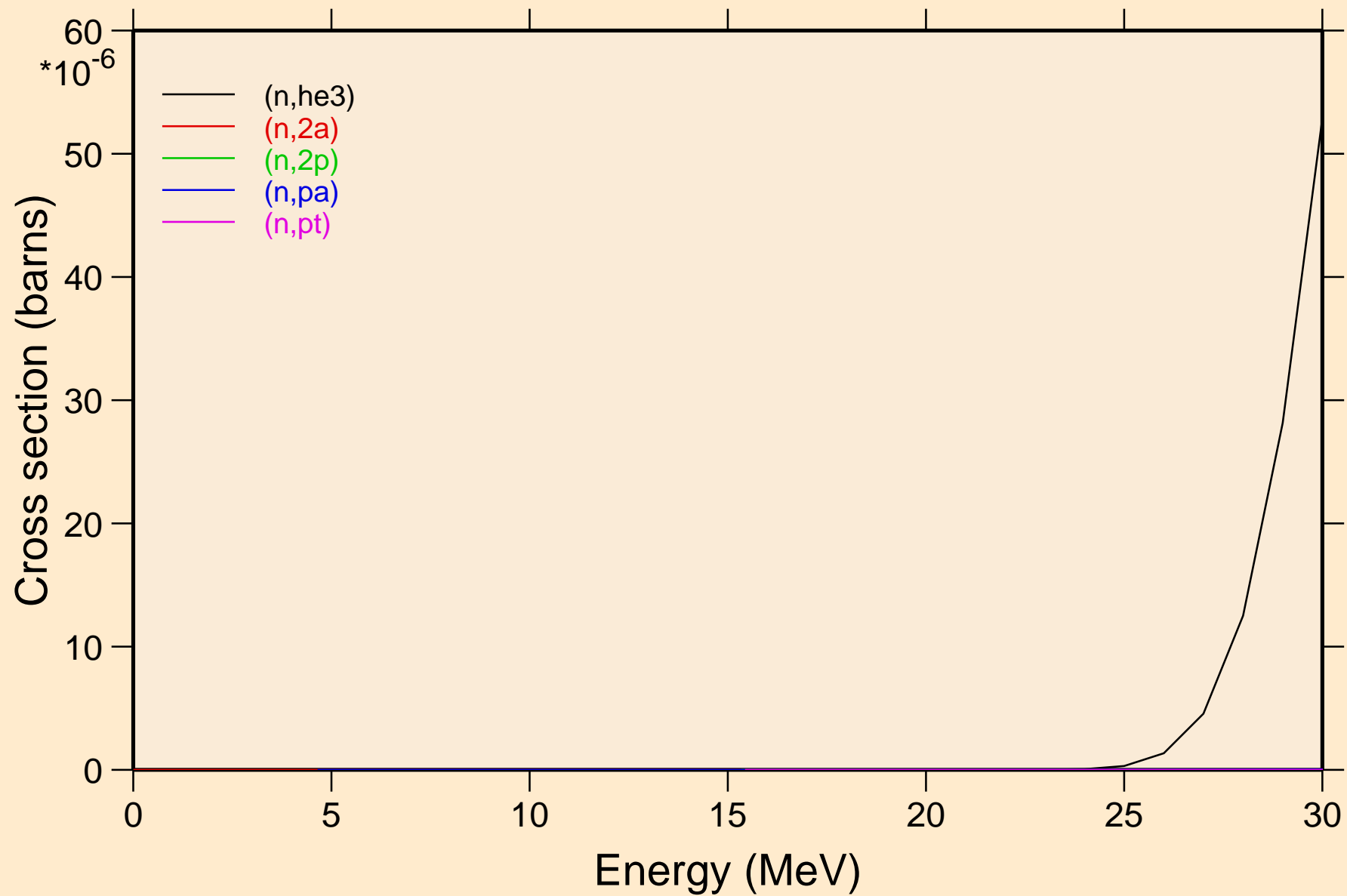
# CS139 NRG TENDL-2015, AKONING

## Threshold reactions



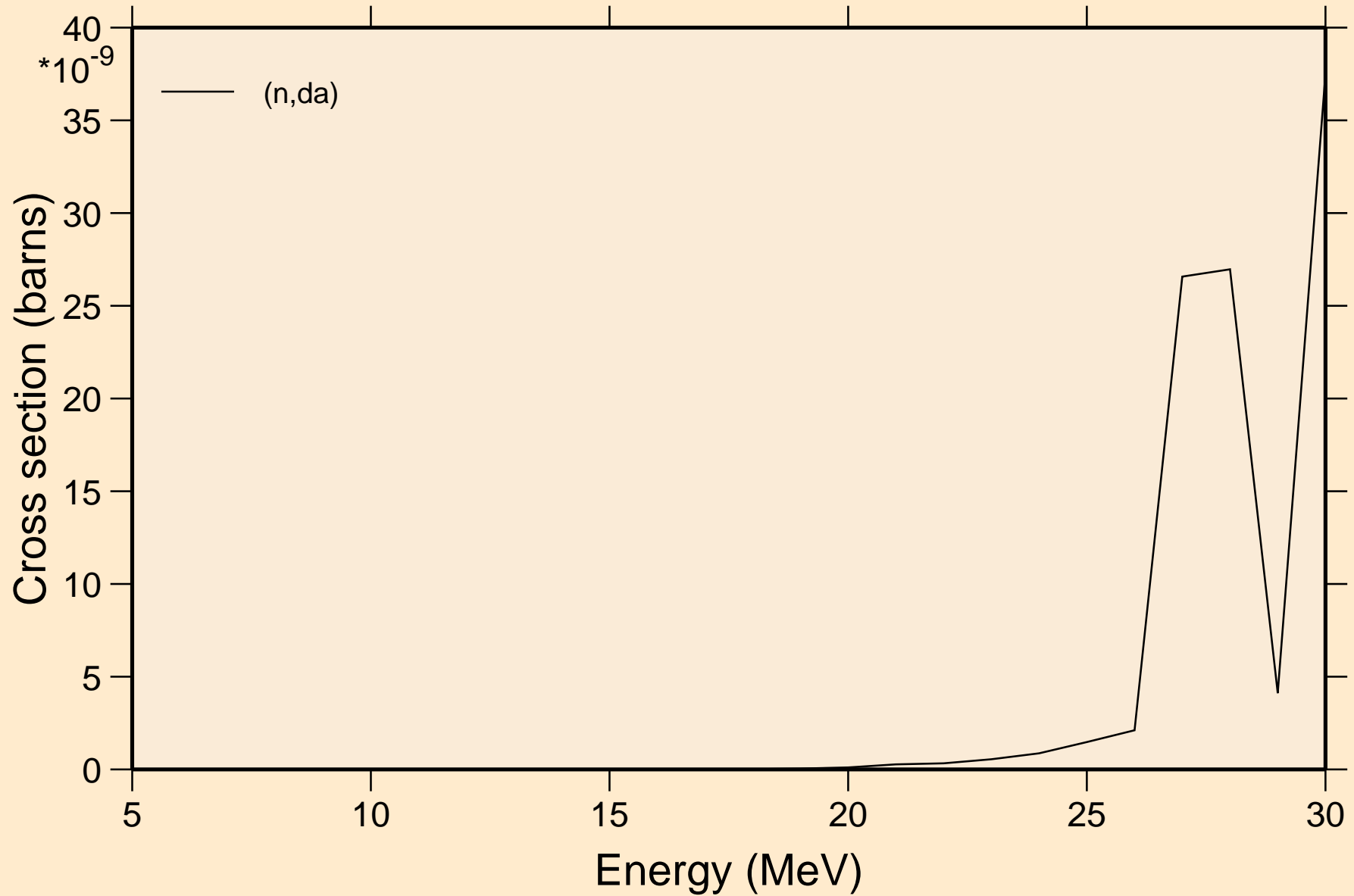
# CS139 NRG TENDL-2015, AKONING

## Threshold reactions



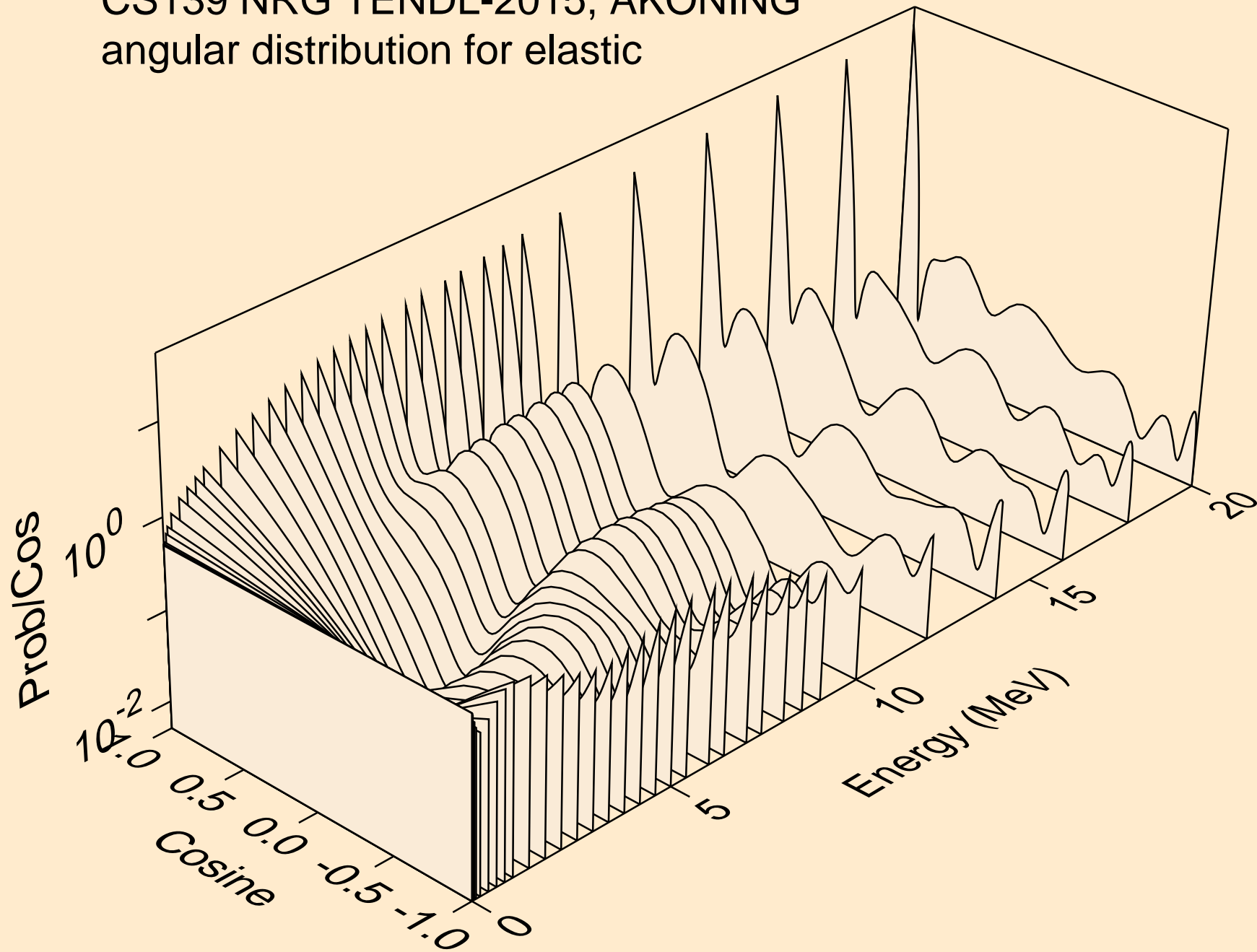
# CS139 NRG TENDL-2015, AKONING

## Threshold reactions

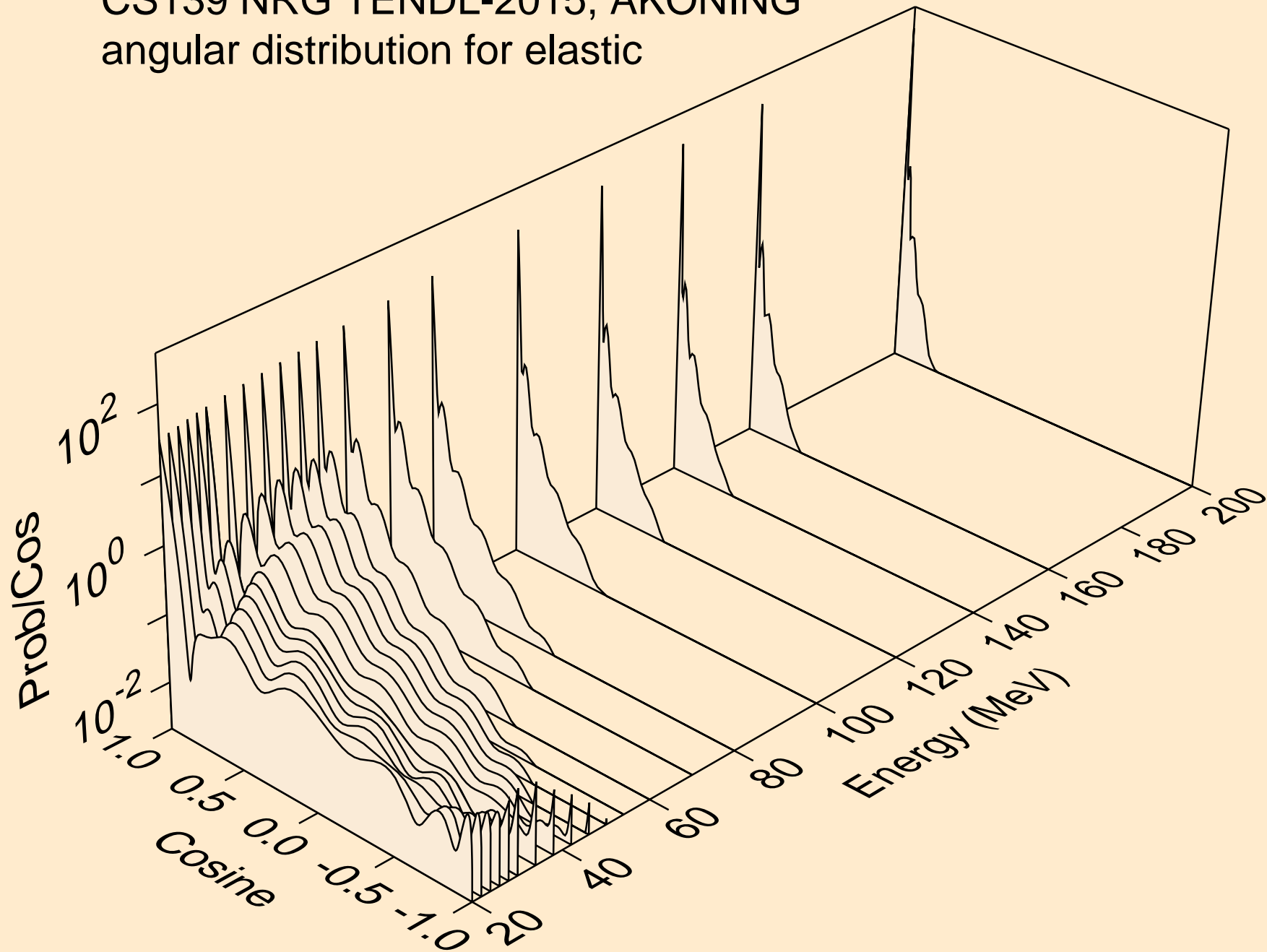




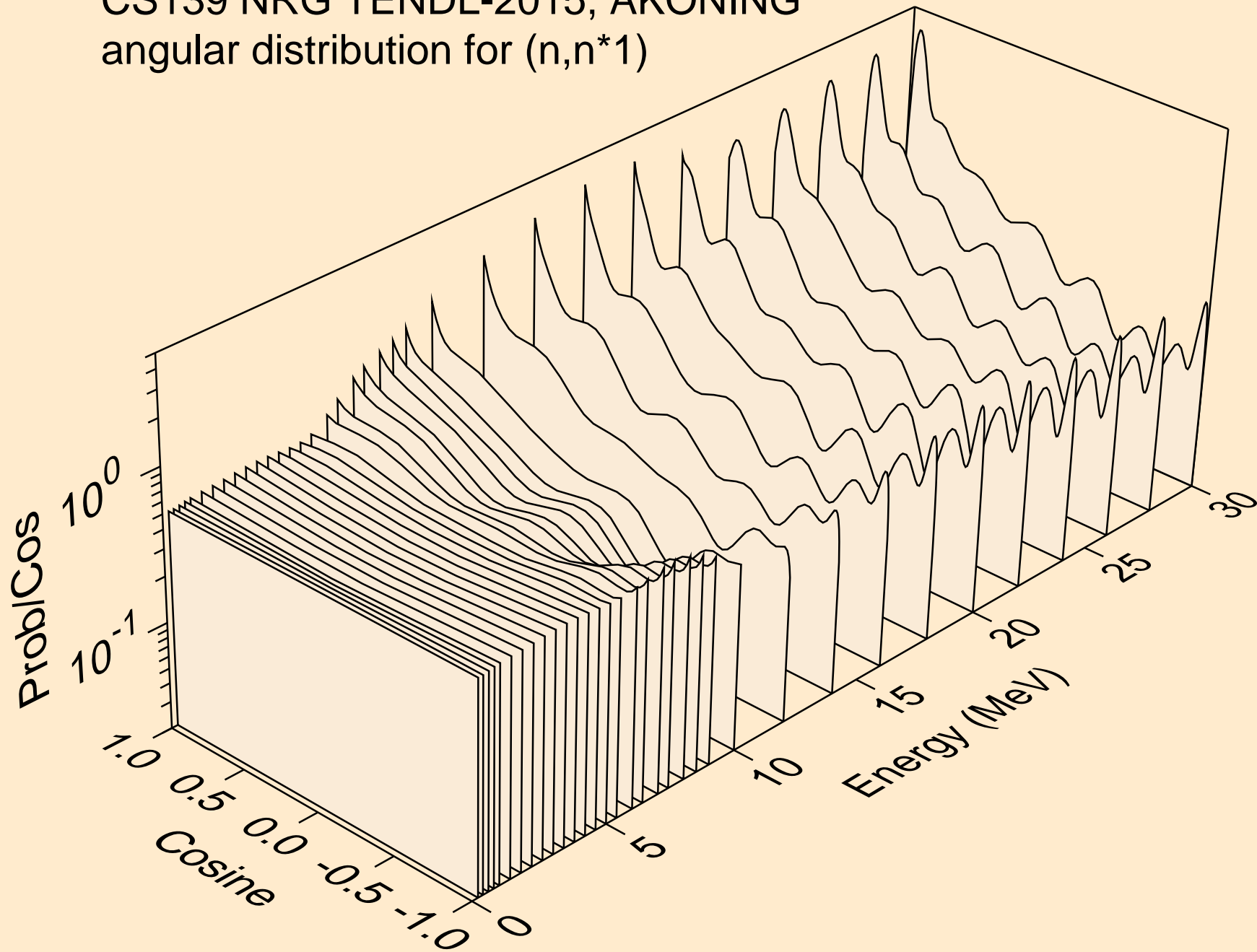
CS139 NRG TENDL-2015, AKONING  
angular distribution for elastic



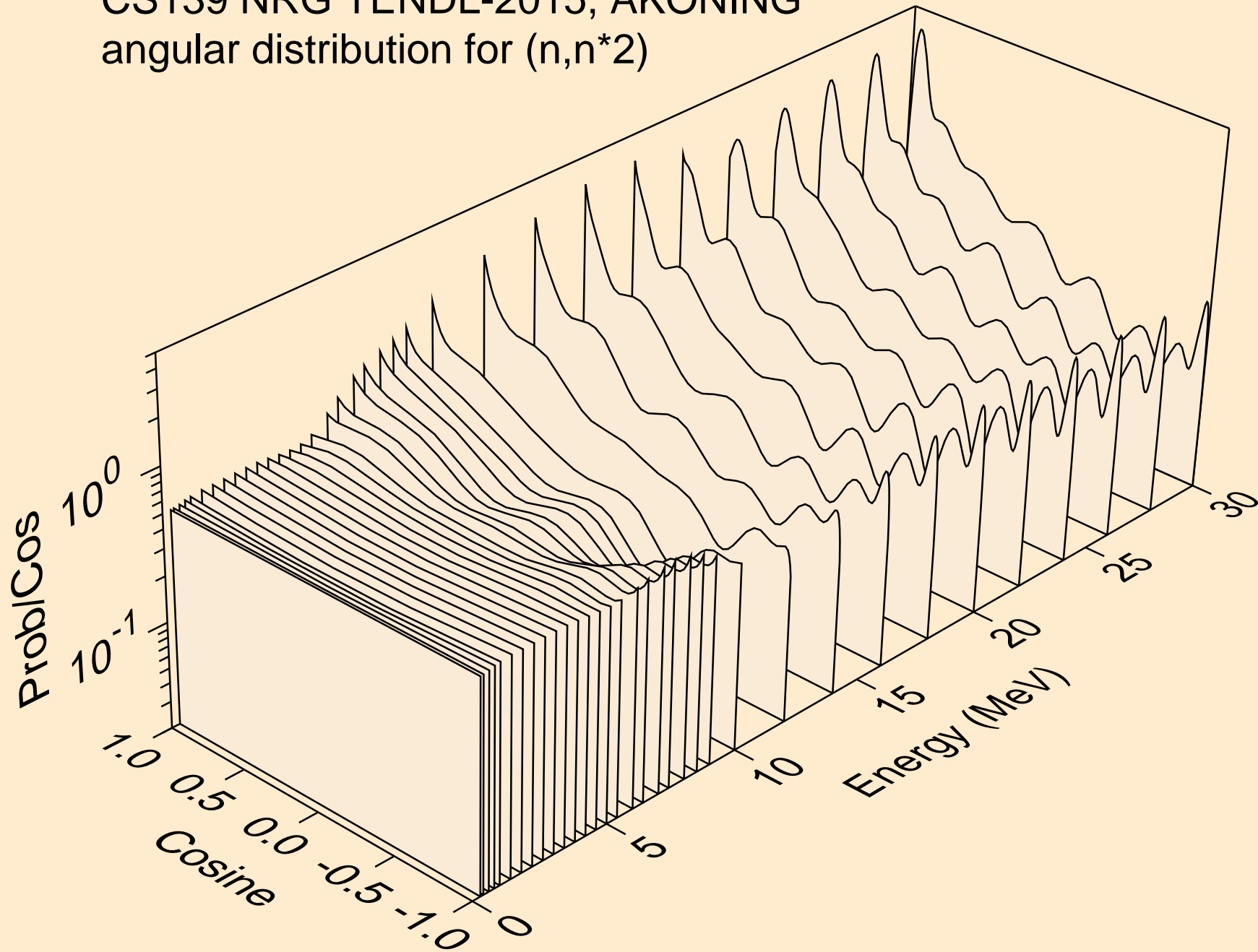
CS139 NRG TENDL-2015, AKONING  
angular distribution for elastic



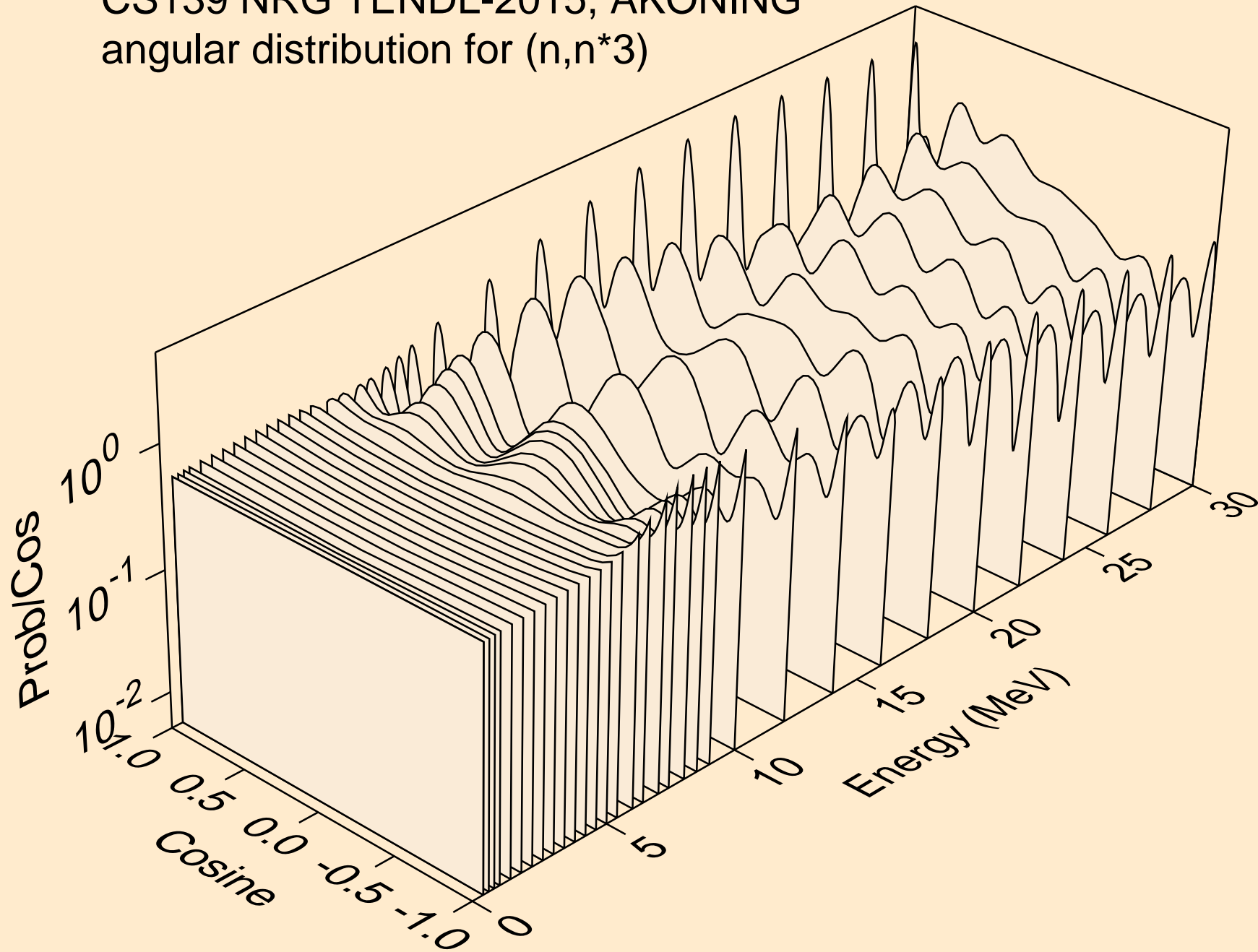
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*1)



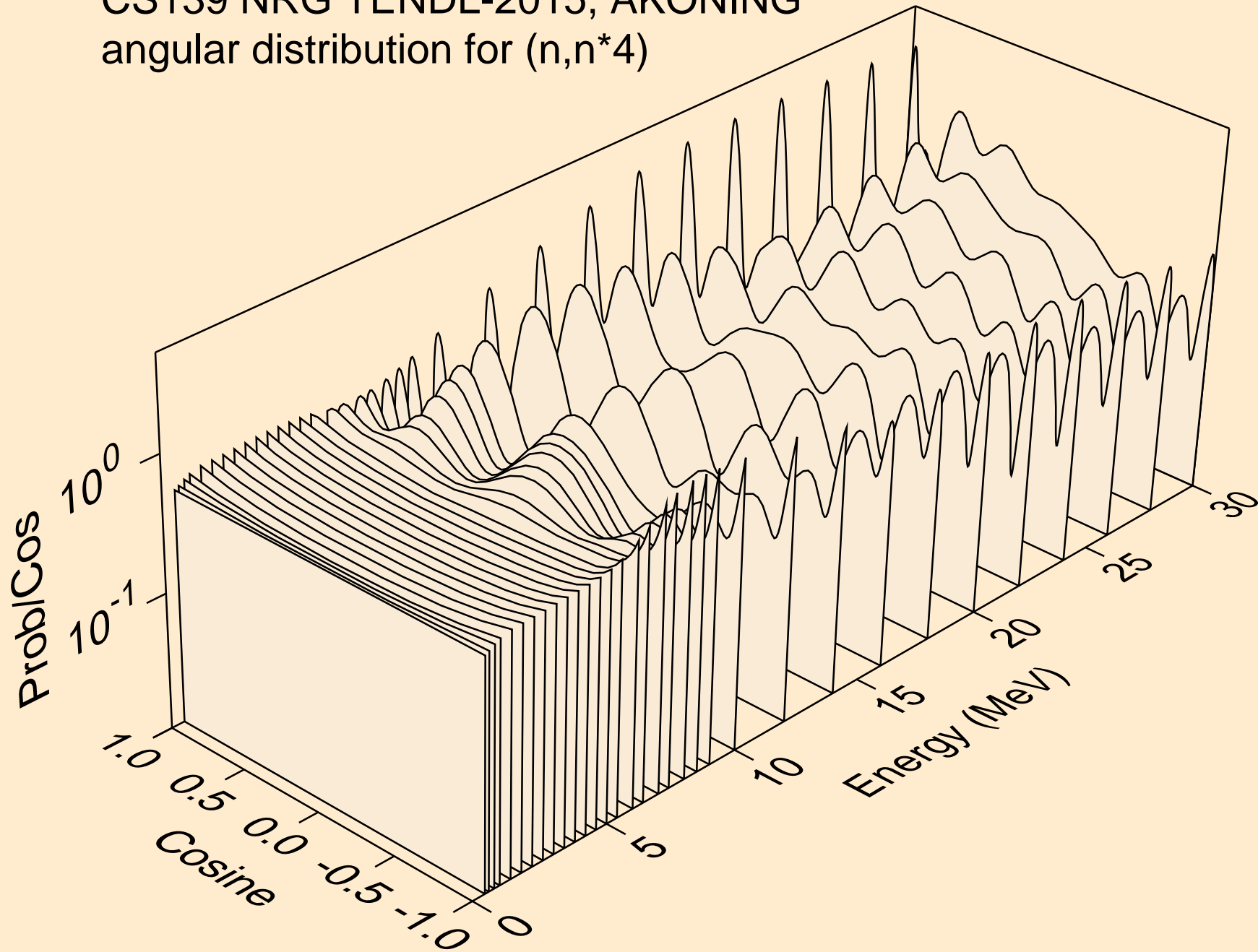
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*2)



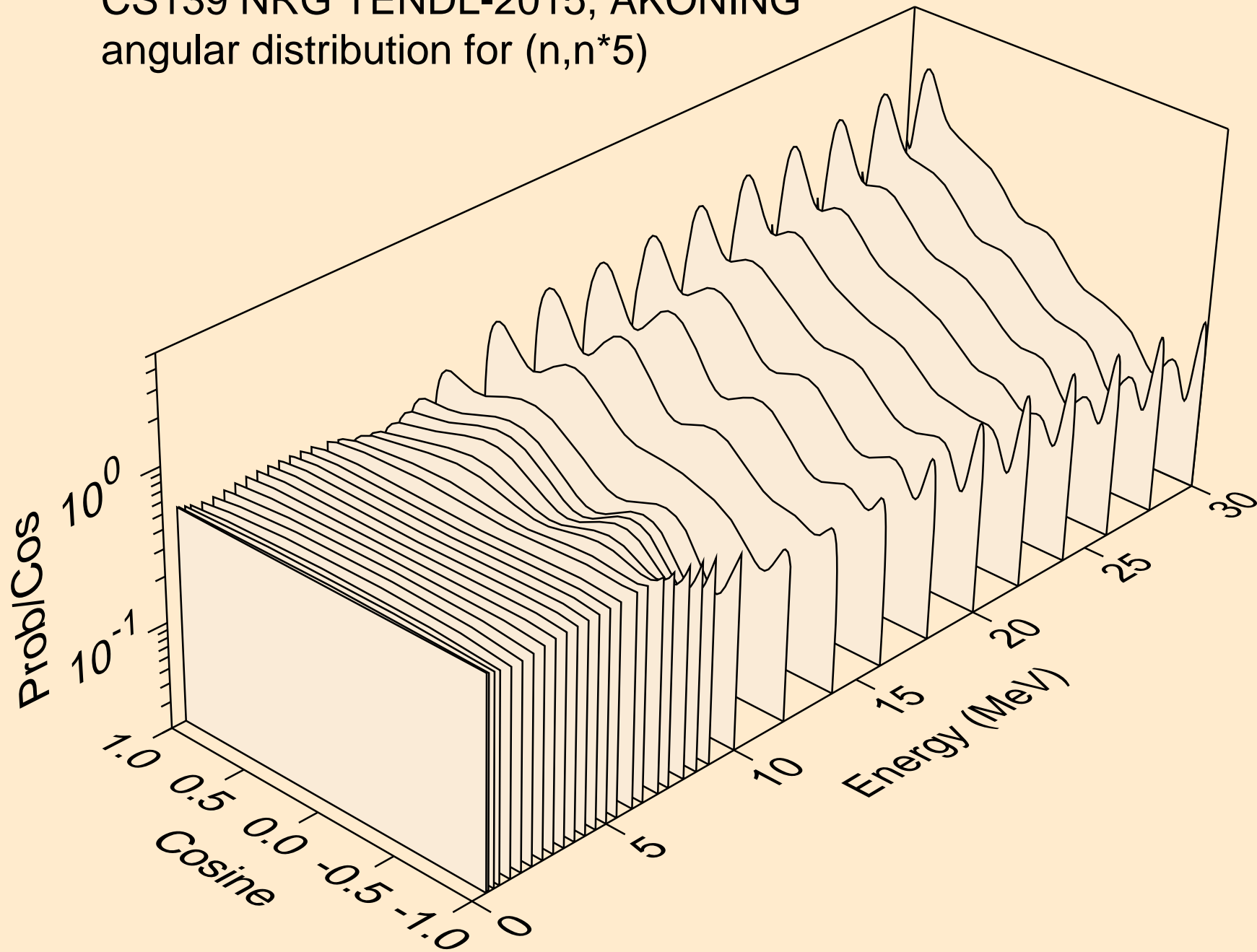
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*3)



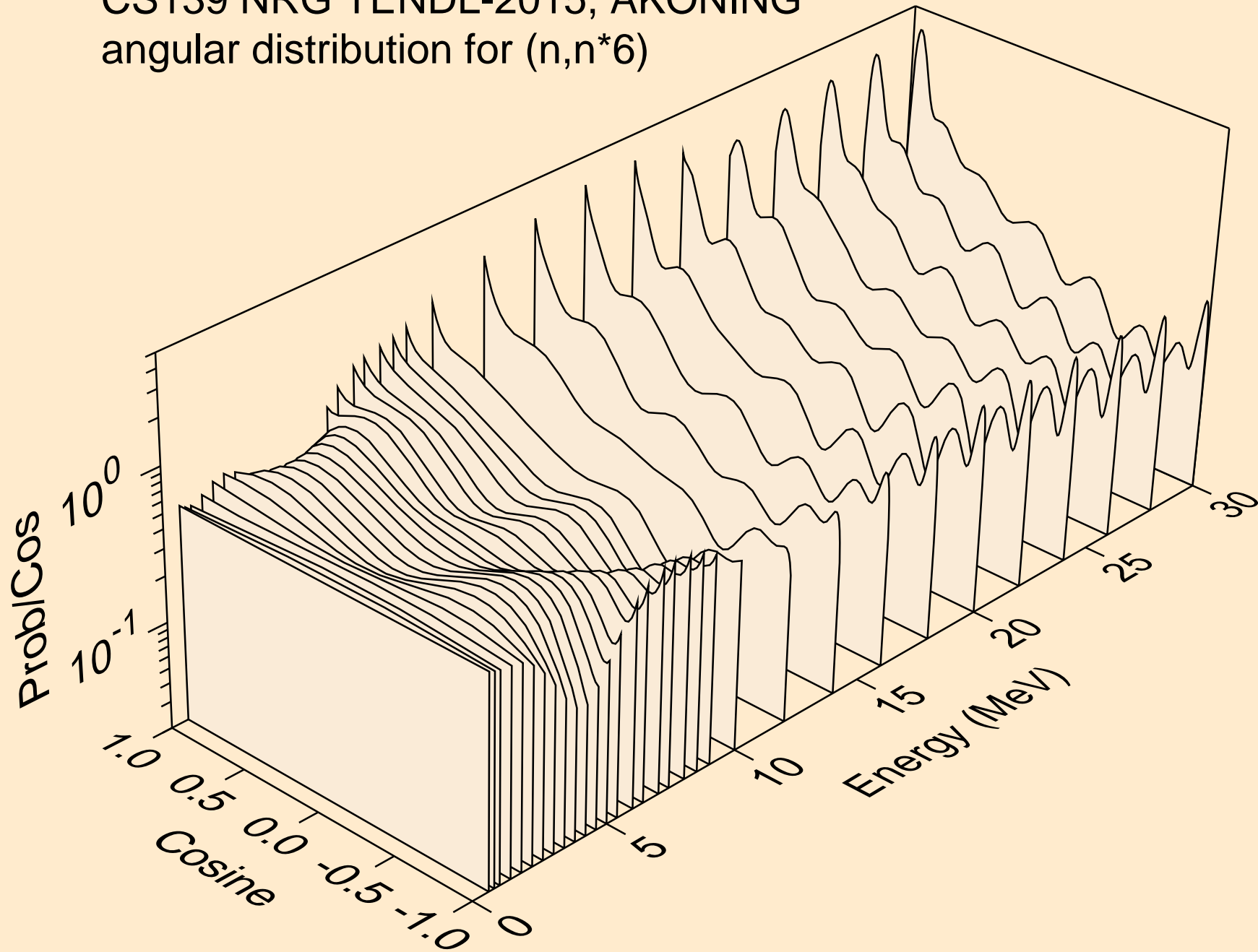
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*4)



CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*5)

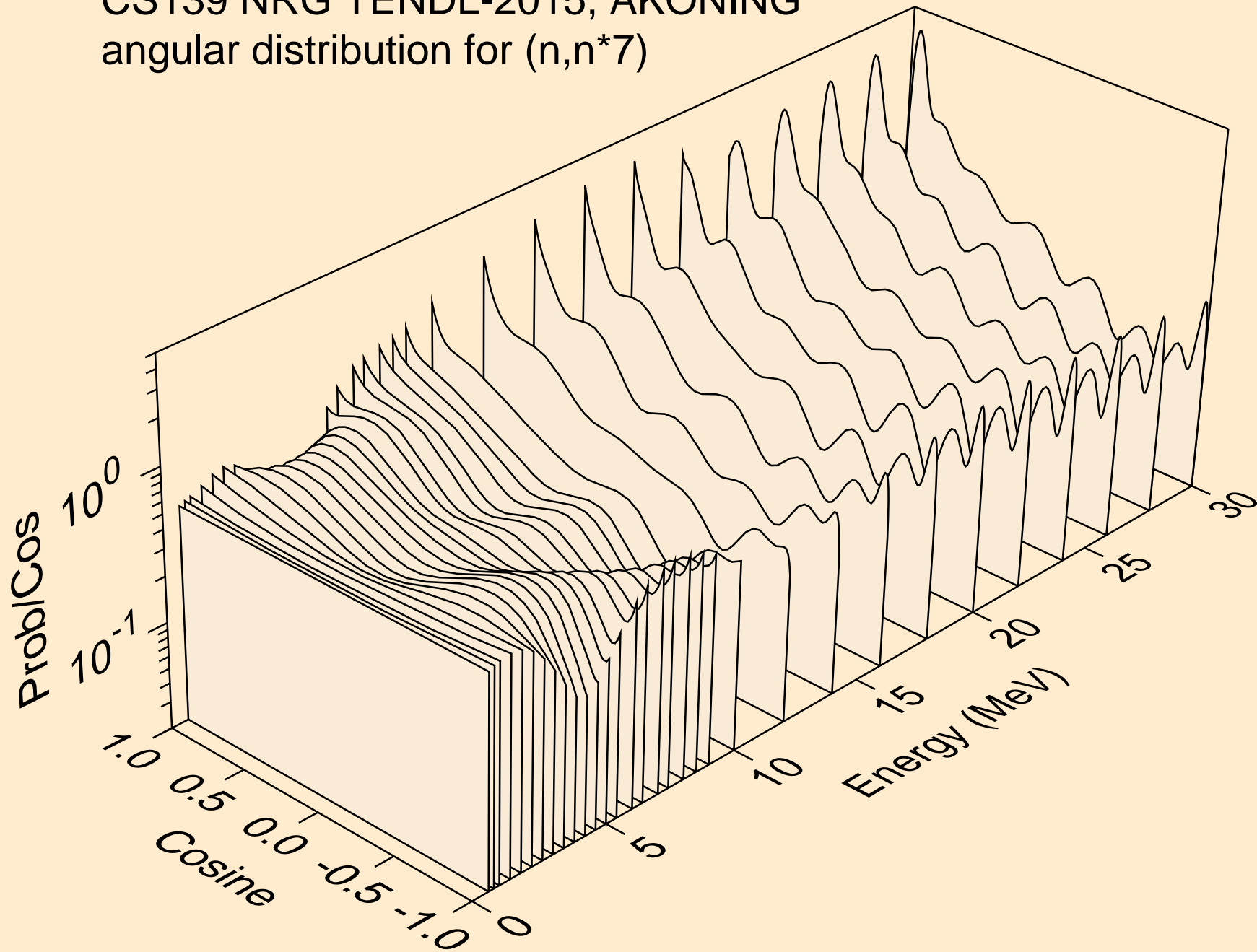


CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*6)

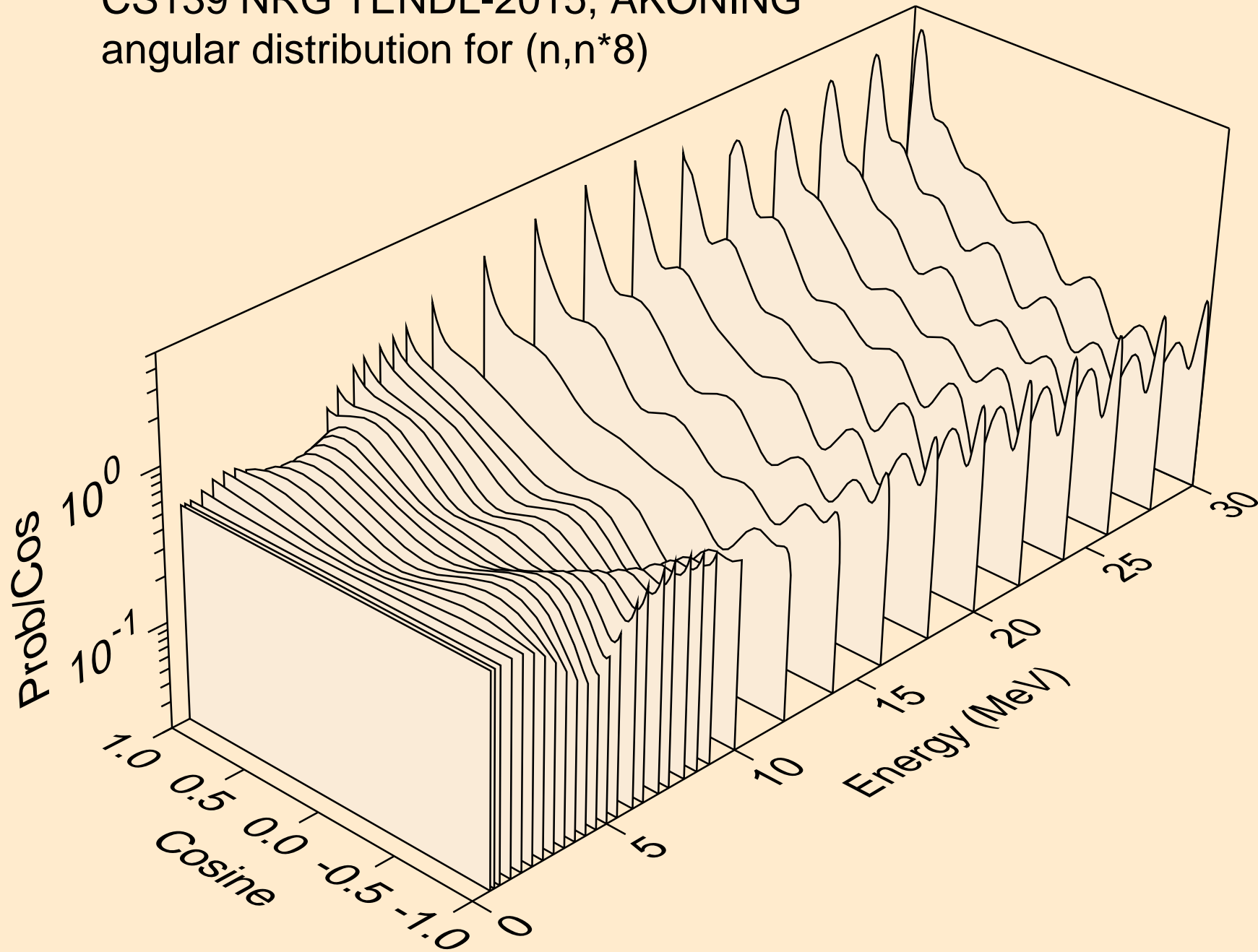




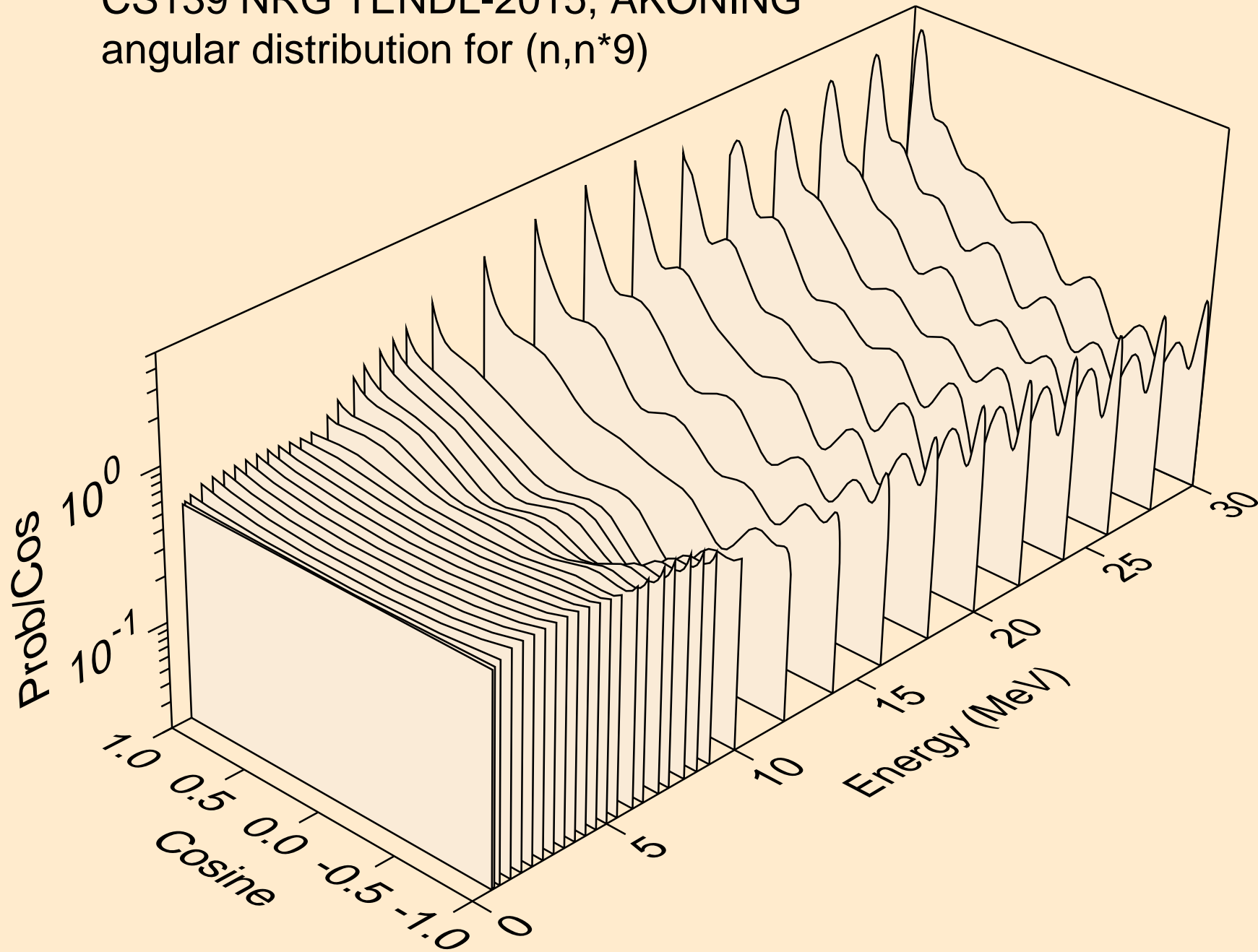
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*7)



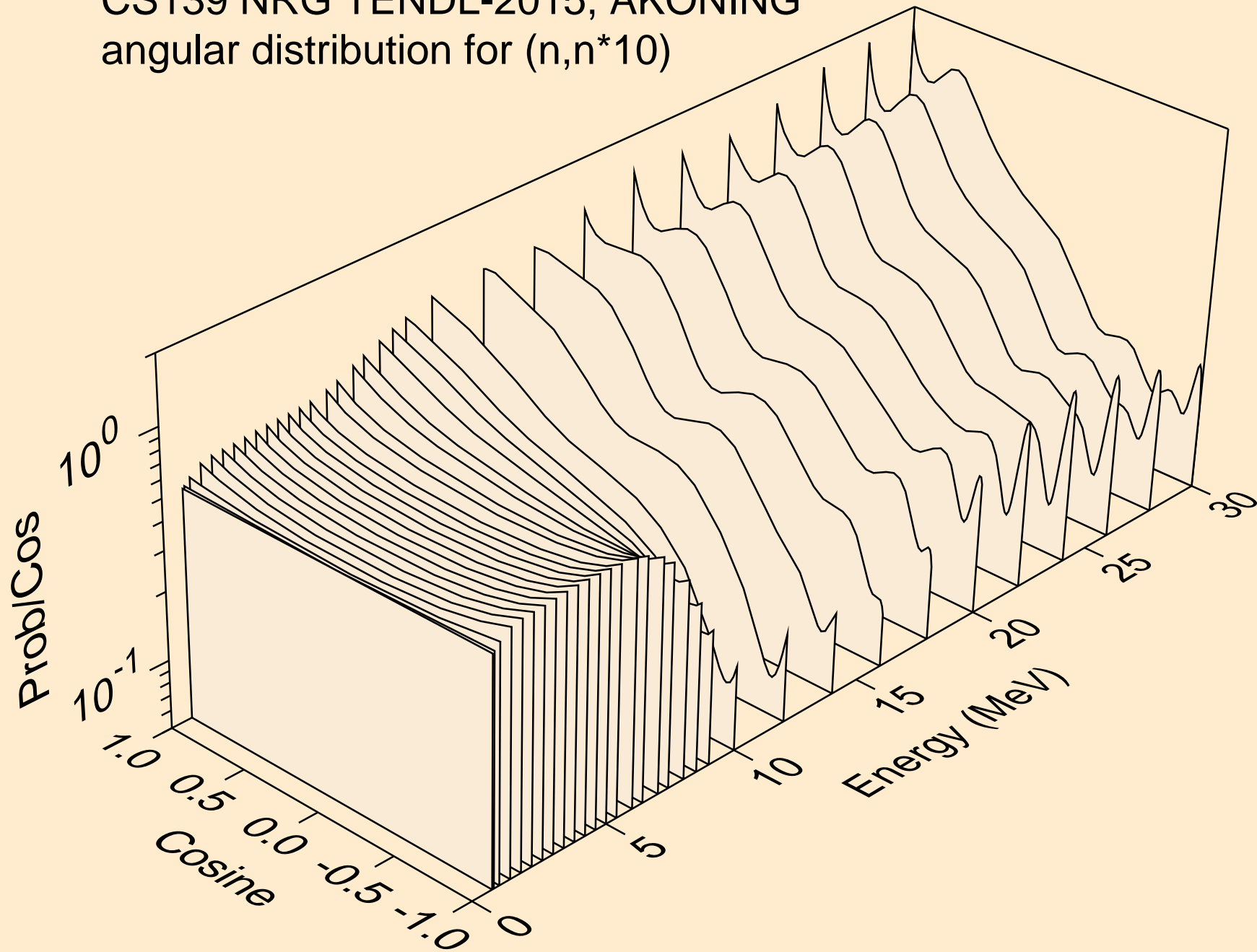
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angular distribution for (n,n\*8)



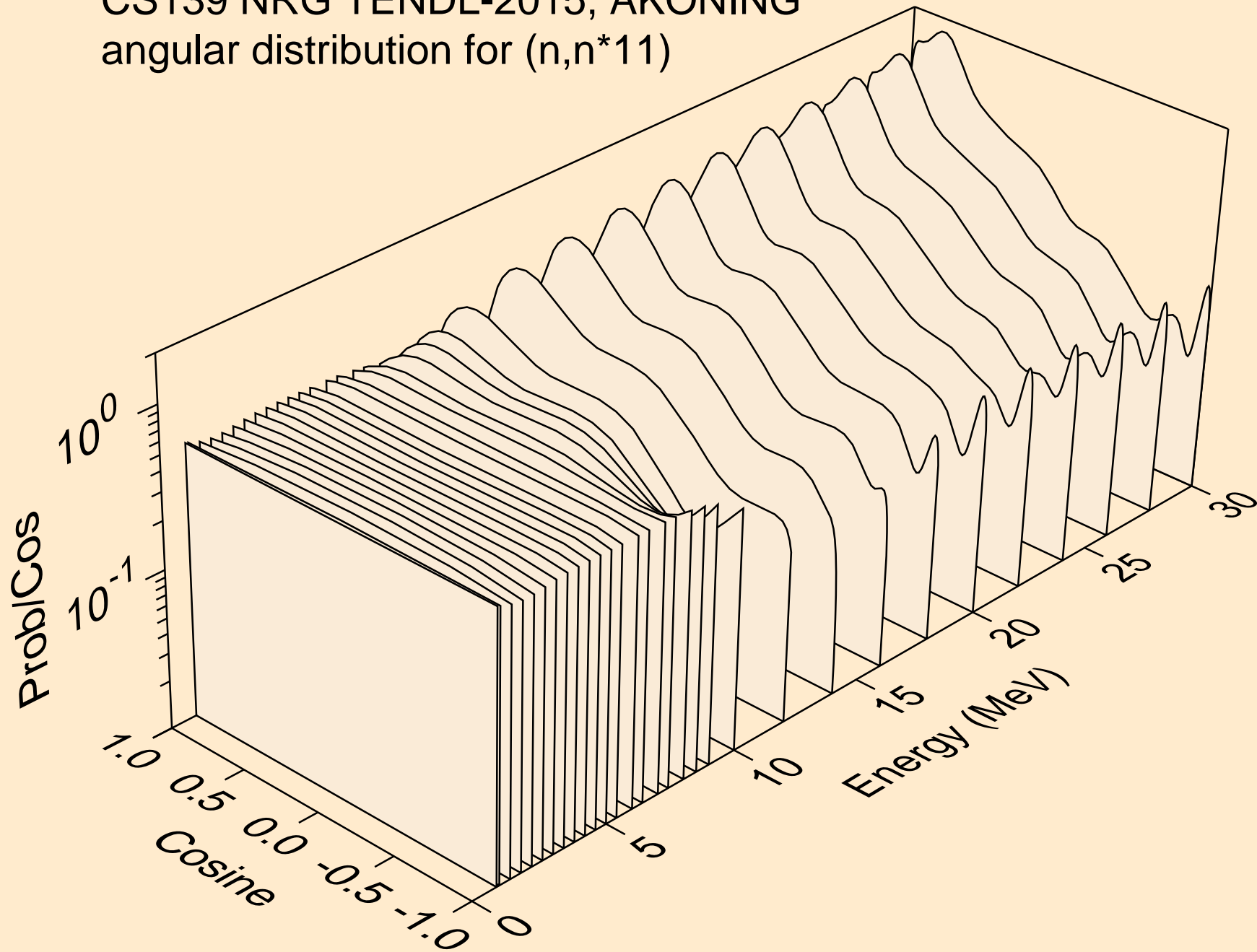
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*9)



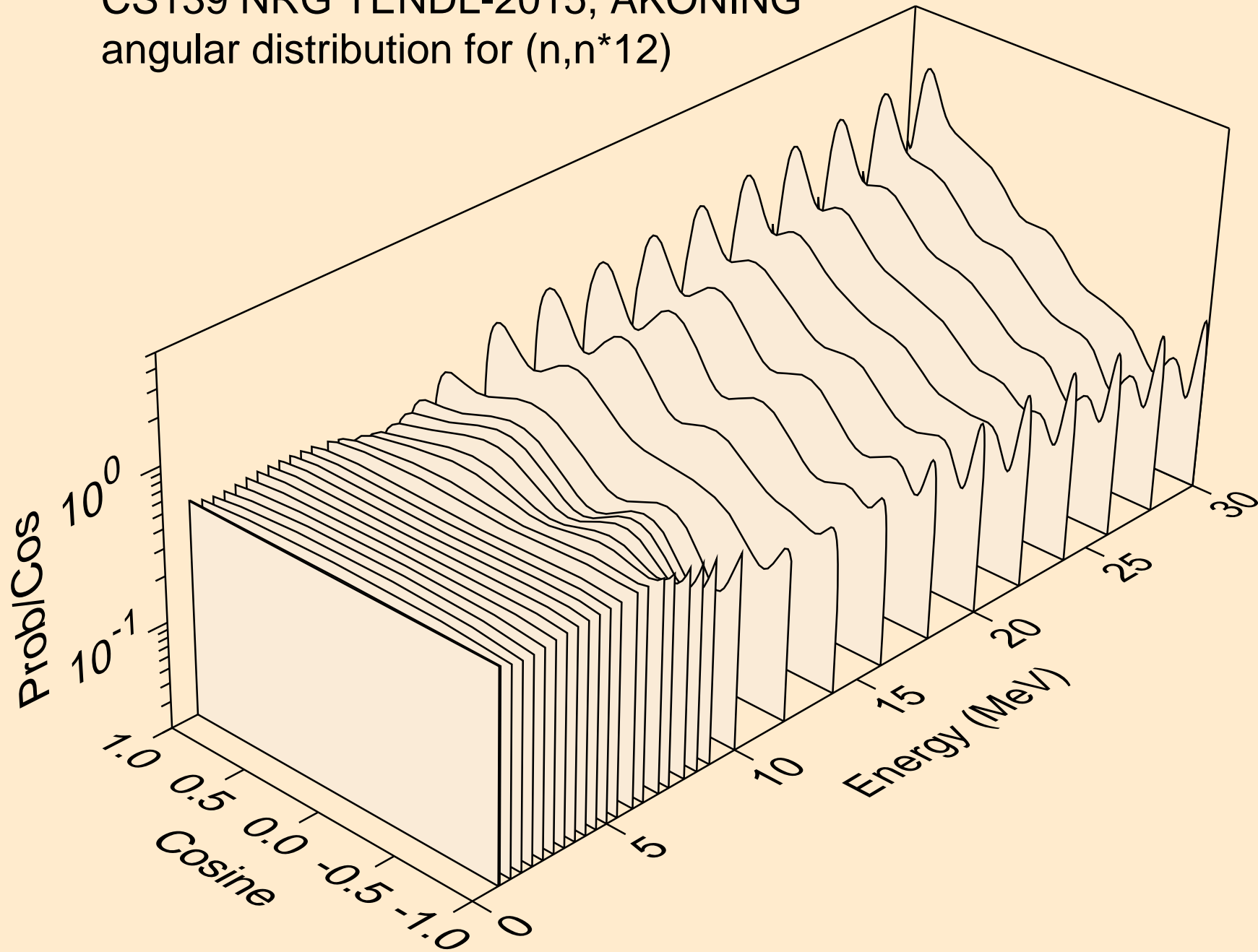
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*10)



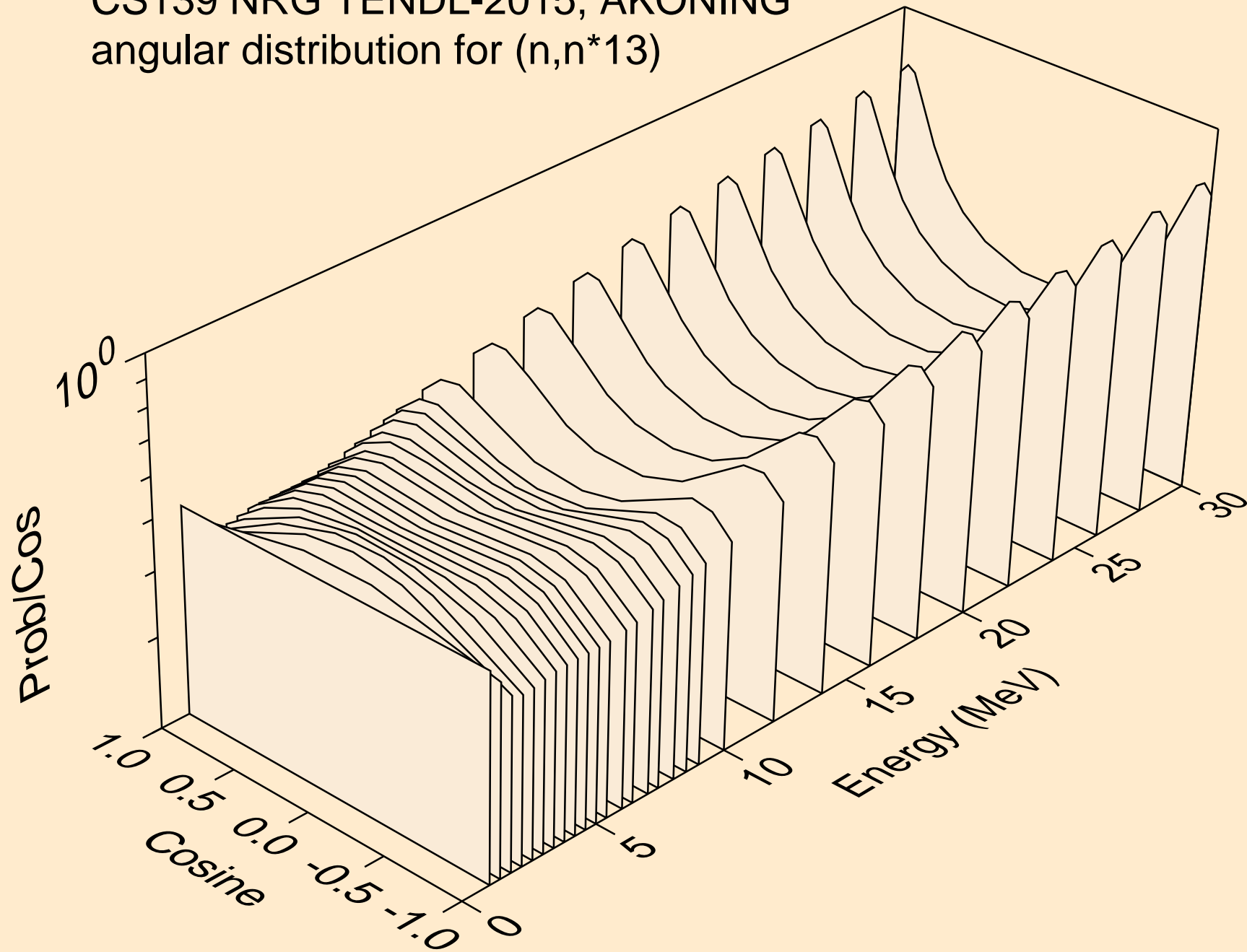
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*11)



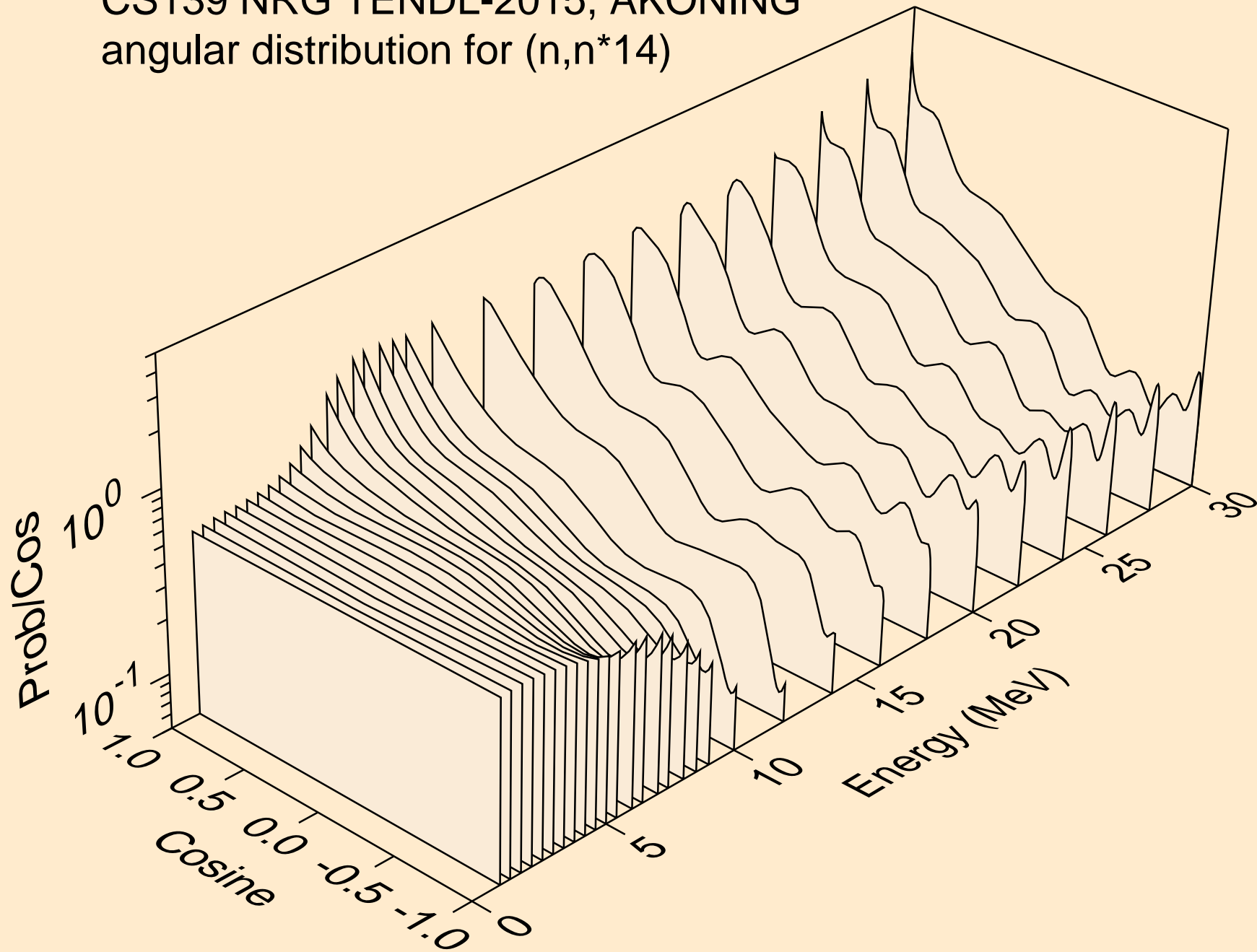
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*12)



CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*13)

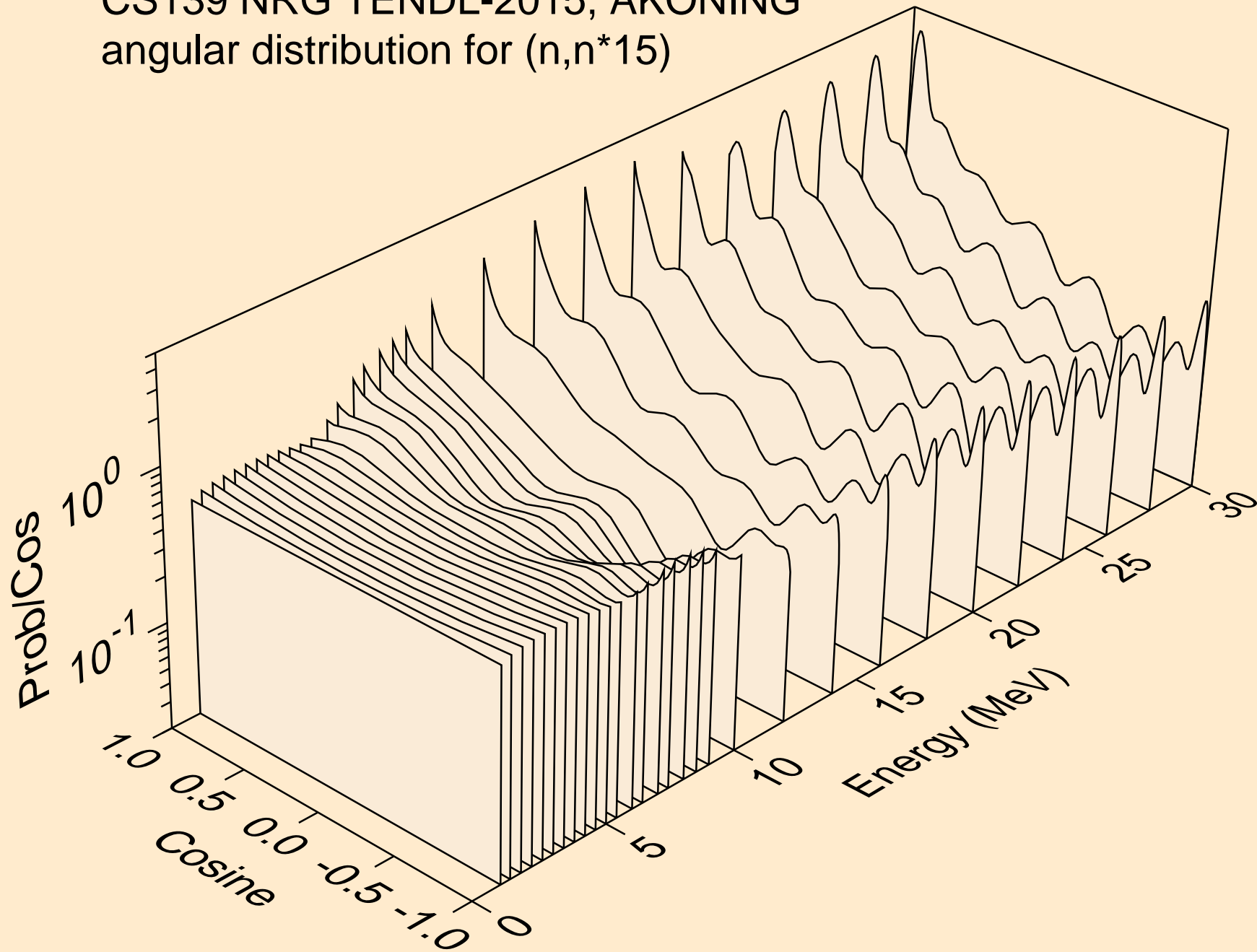


CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*14)

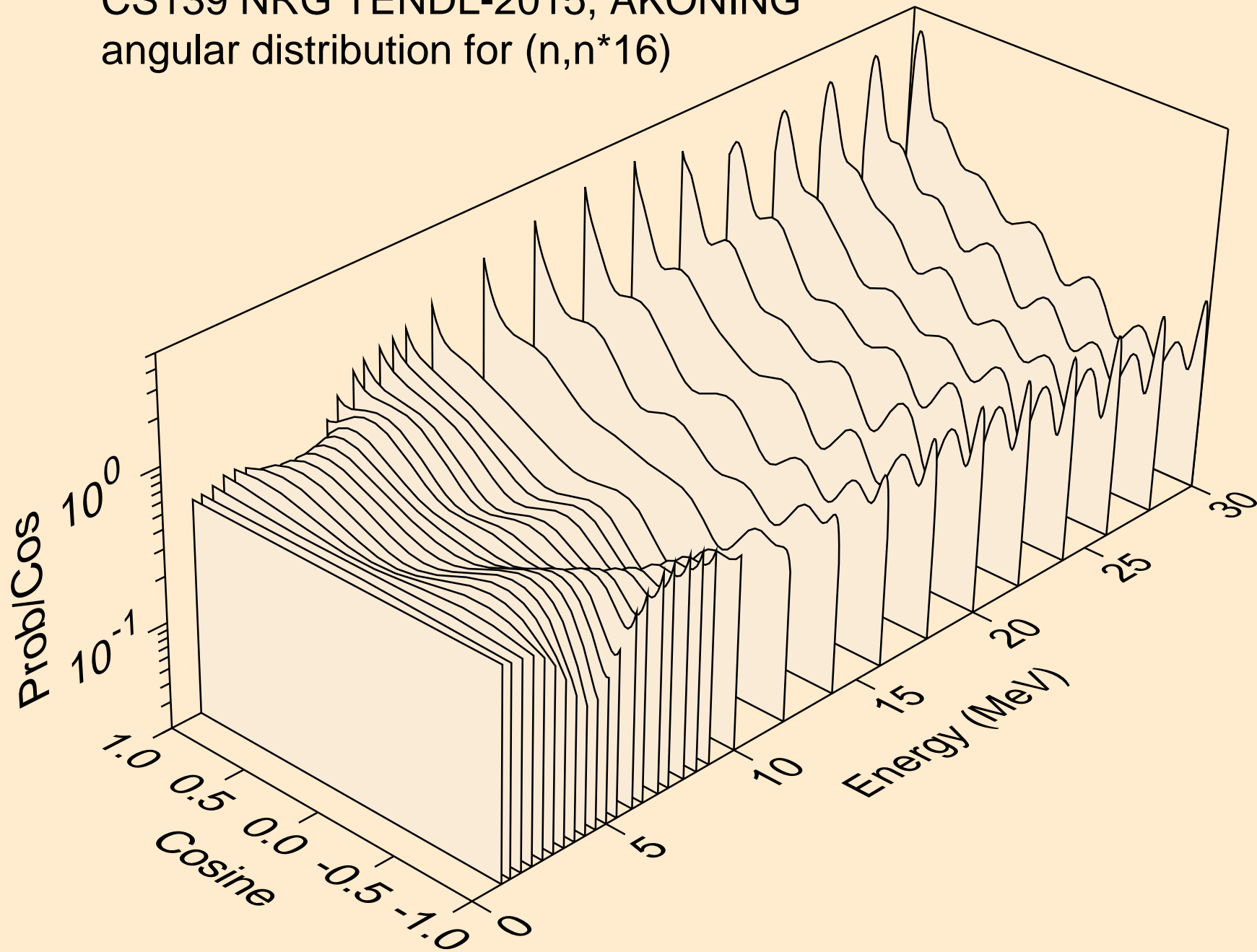




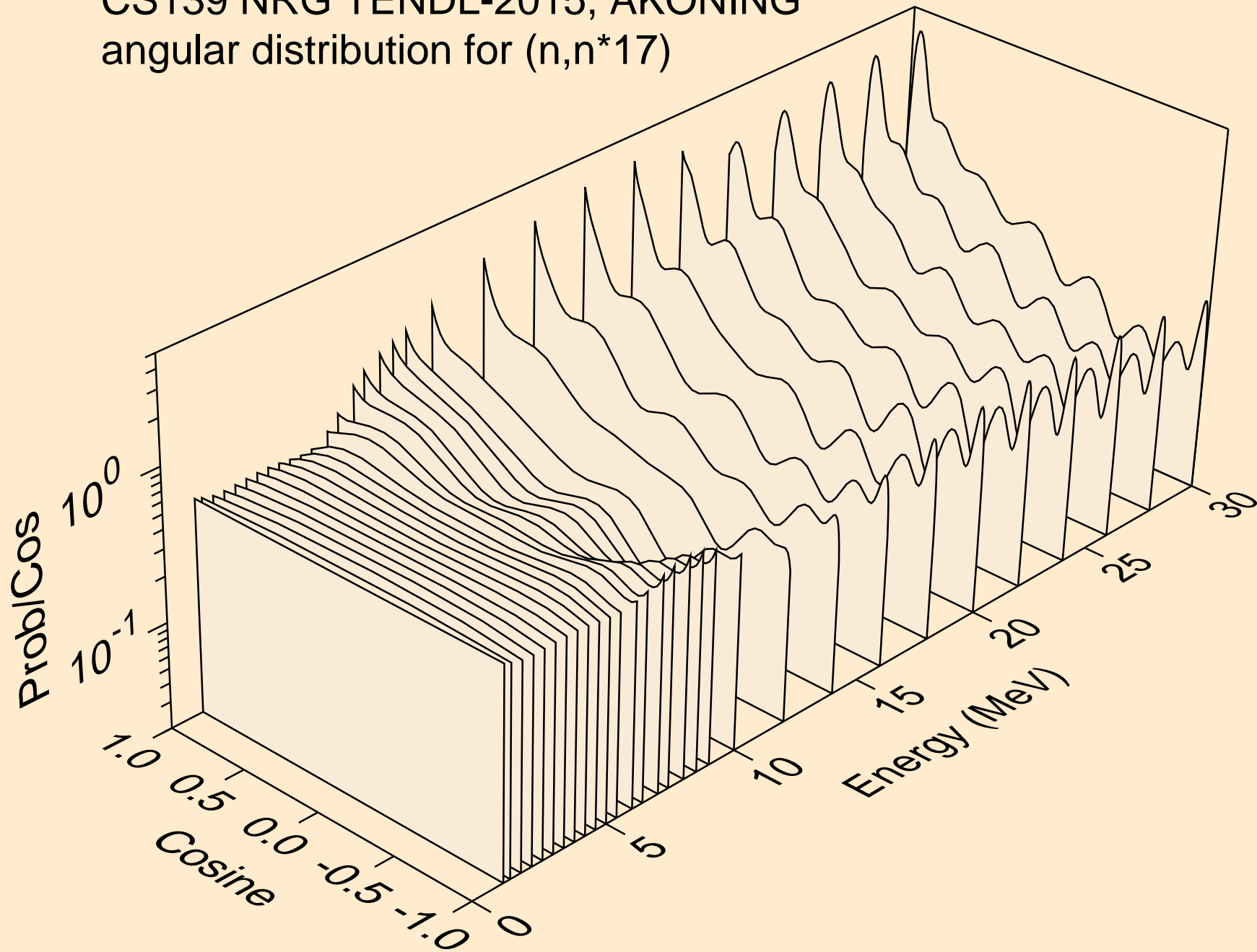
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*15)



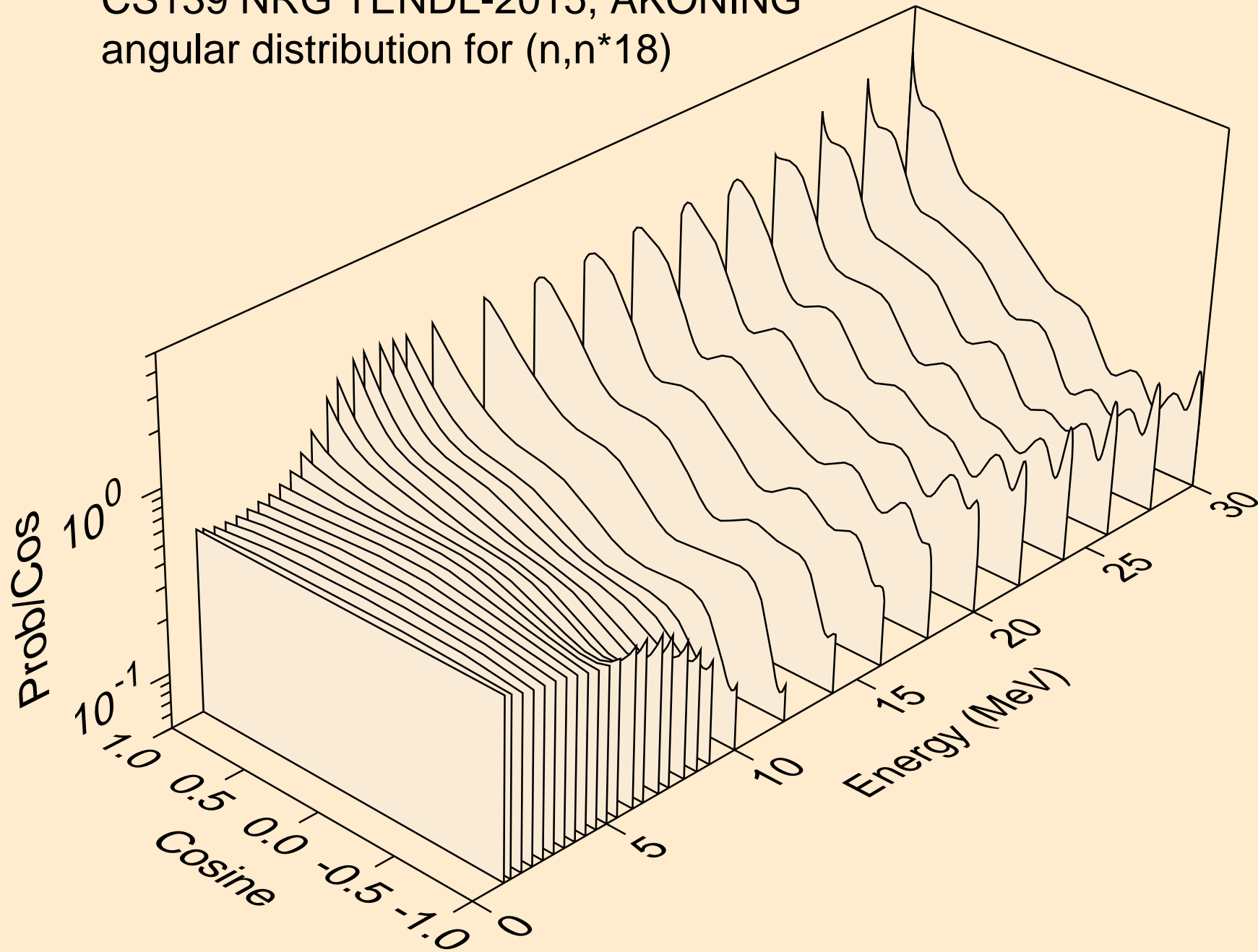
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*16)



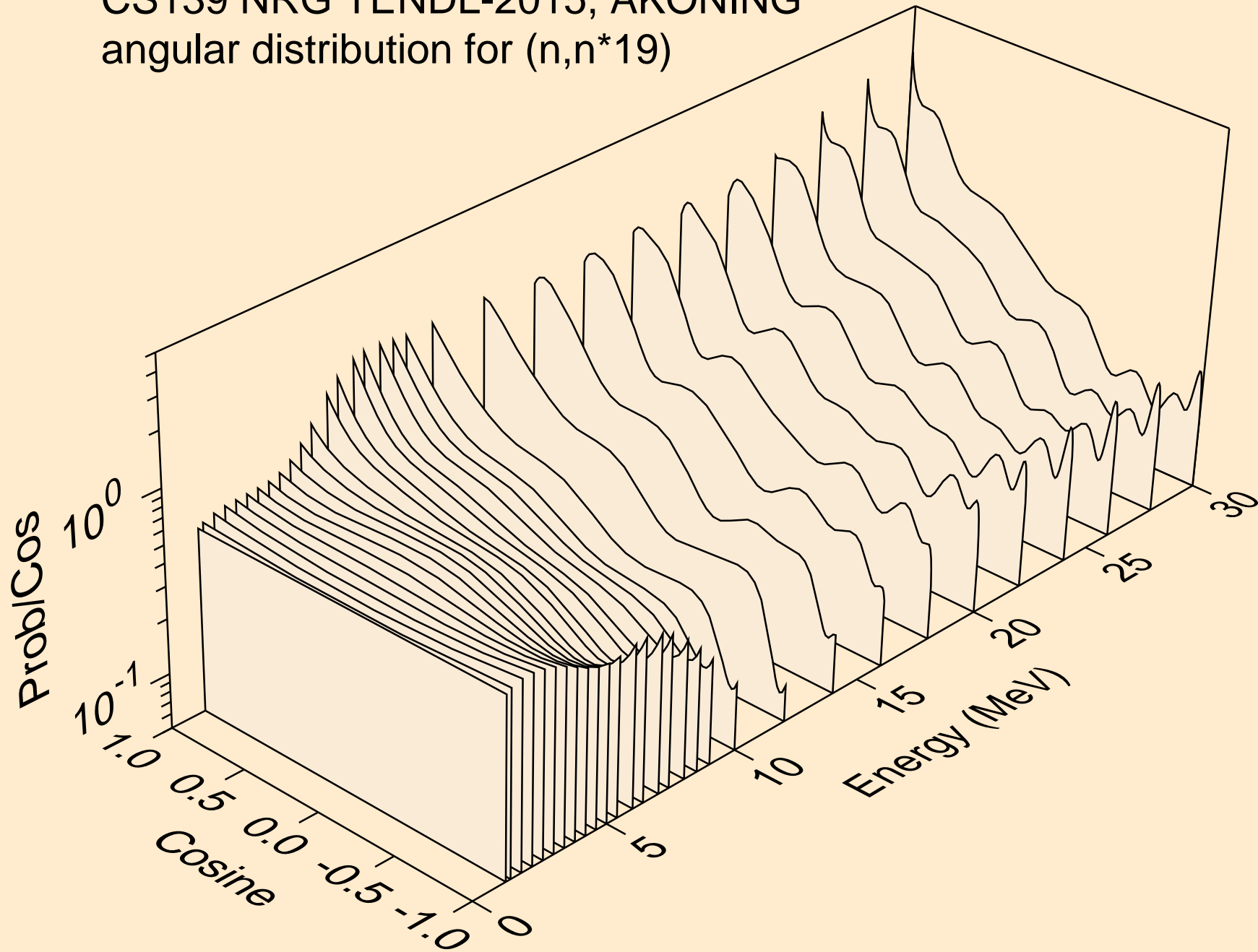
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*17)



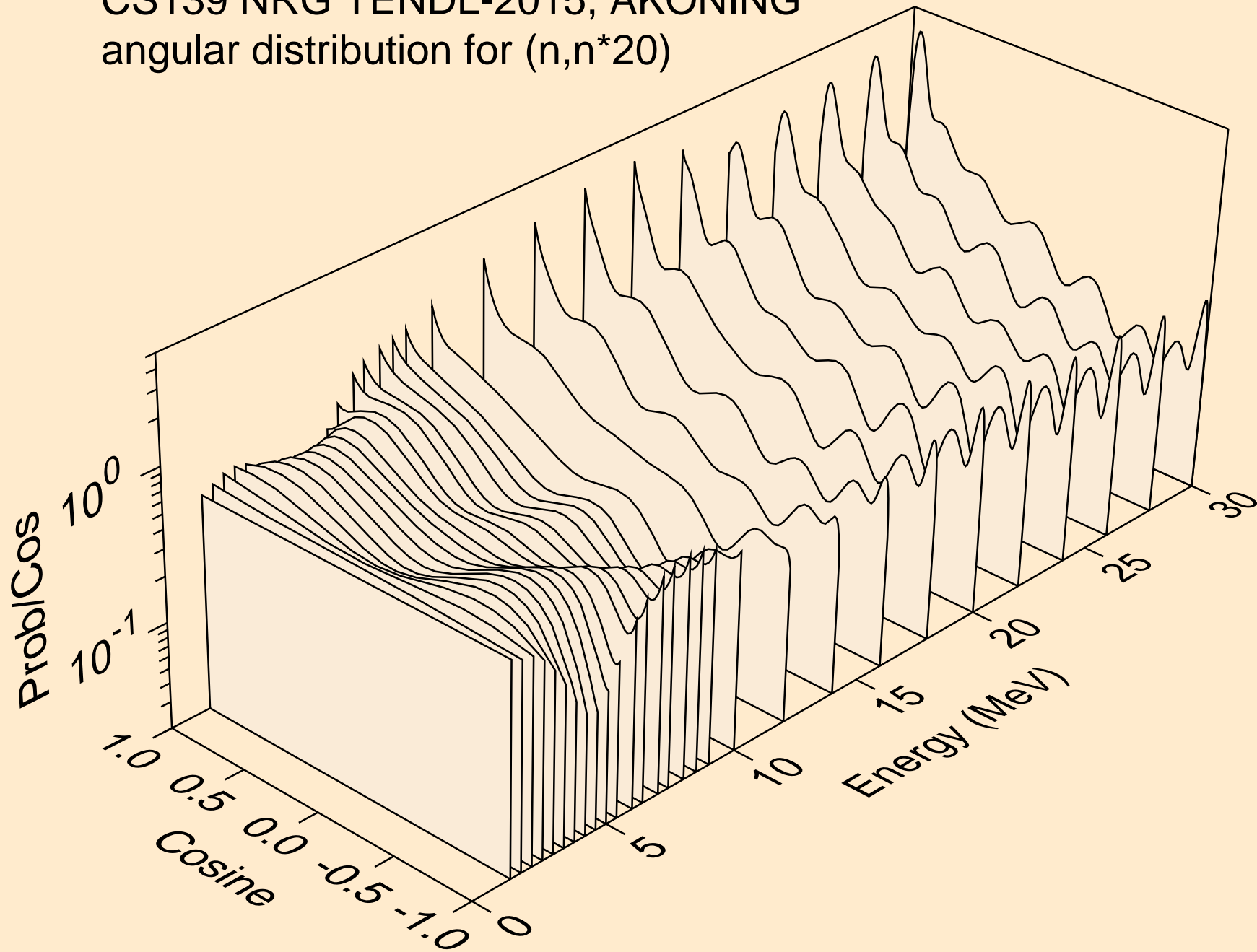
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*18)



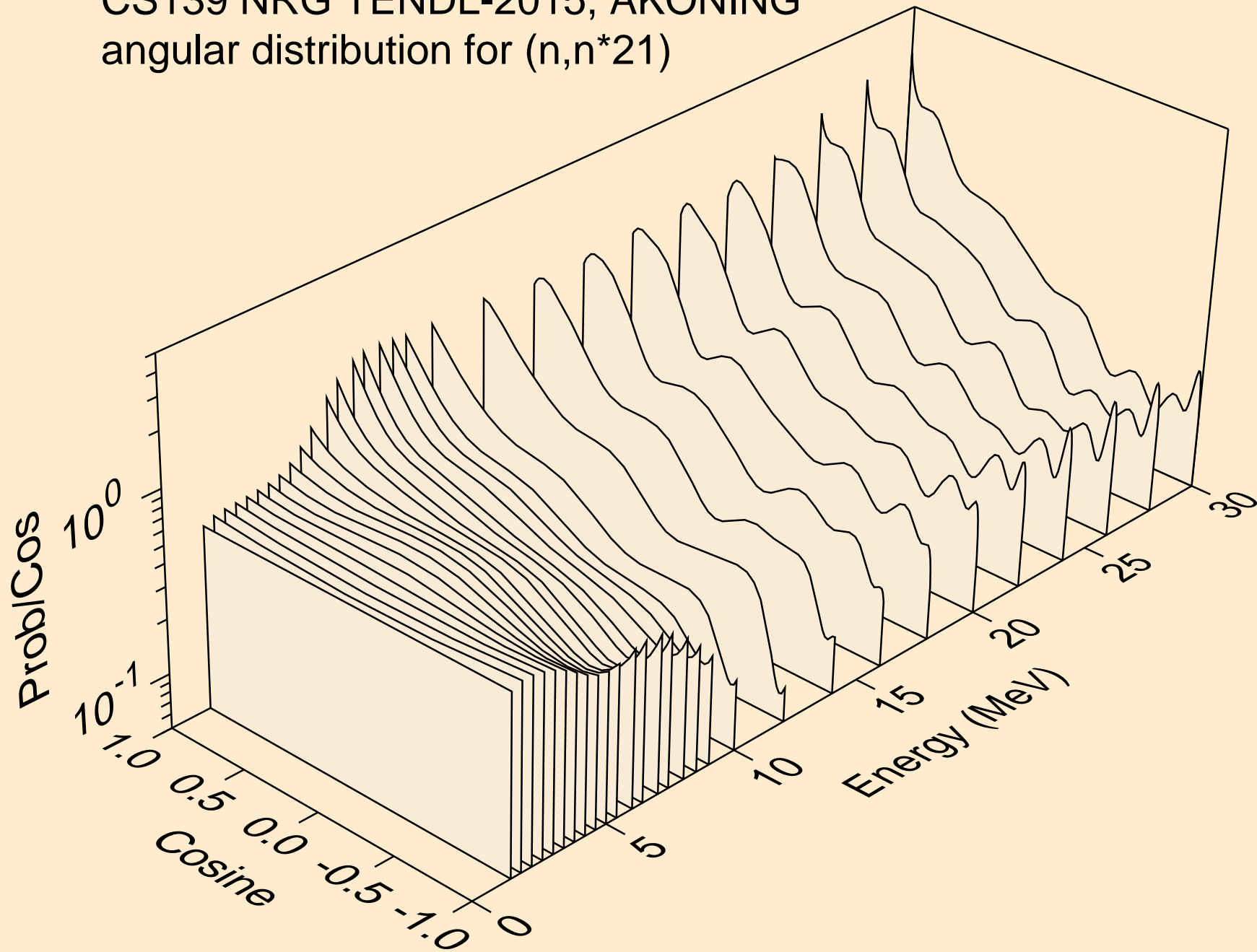
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angular distribution for (n,n\*19)



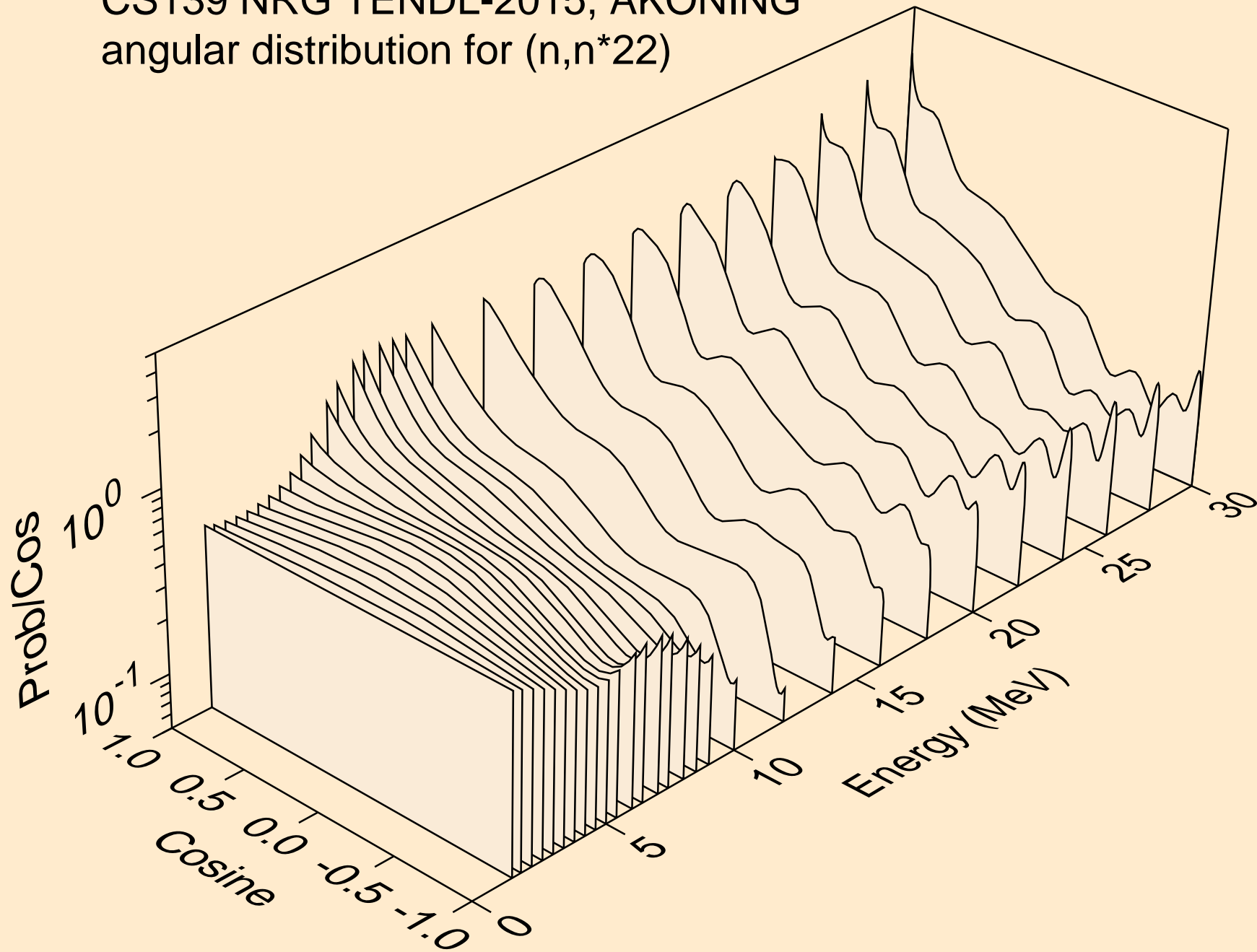
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*20)



CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*21)

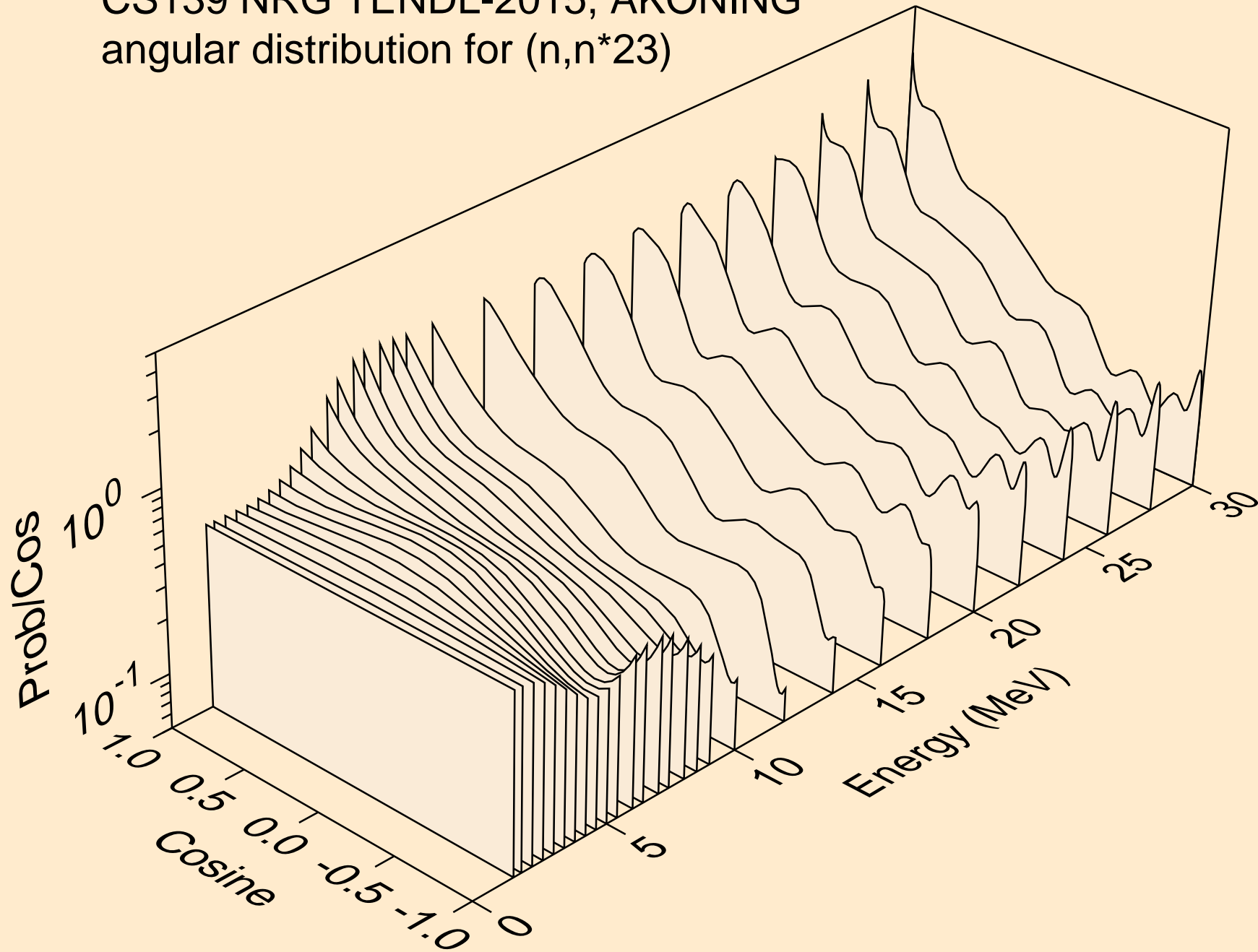


CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*22)

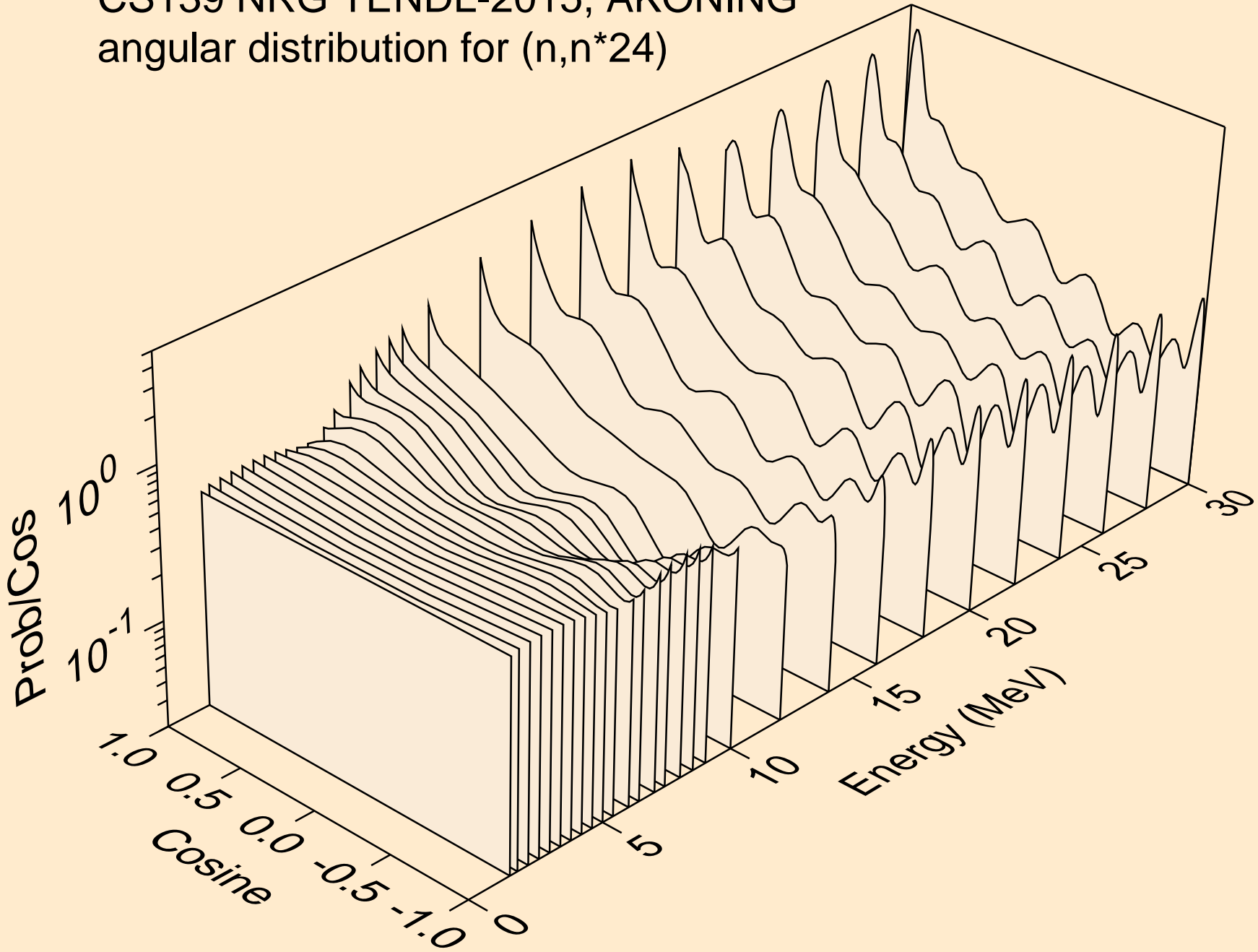




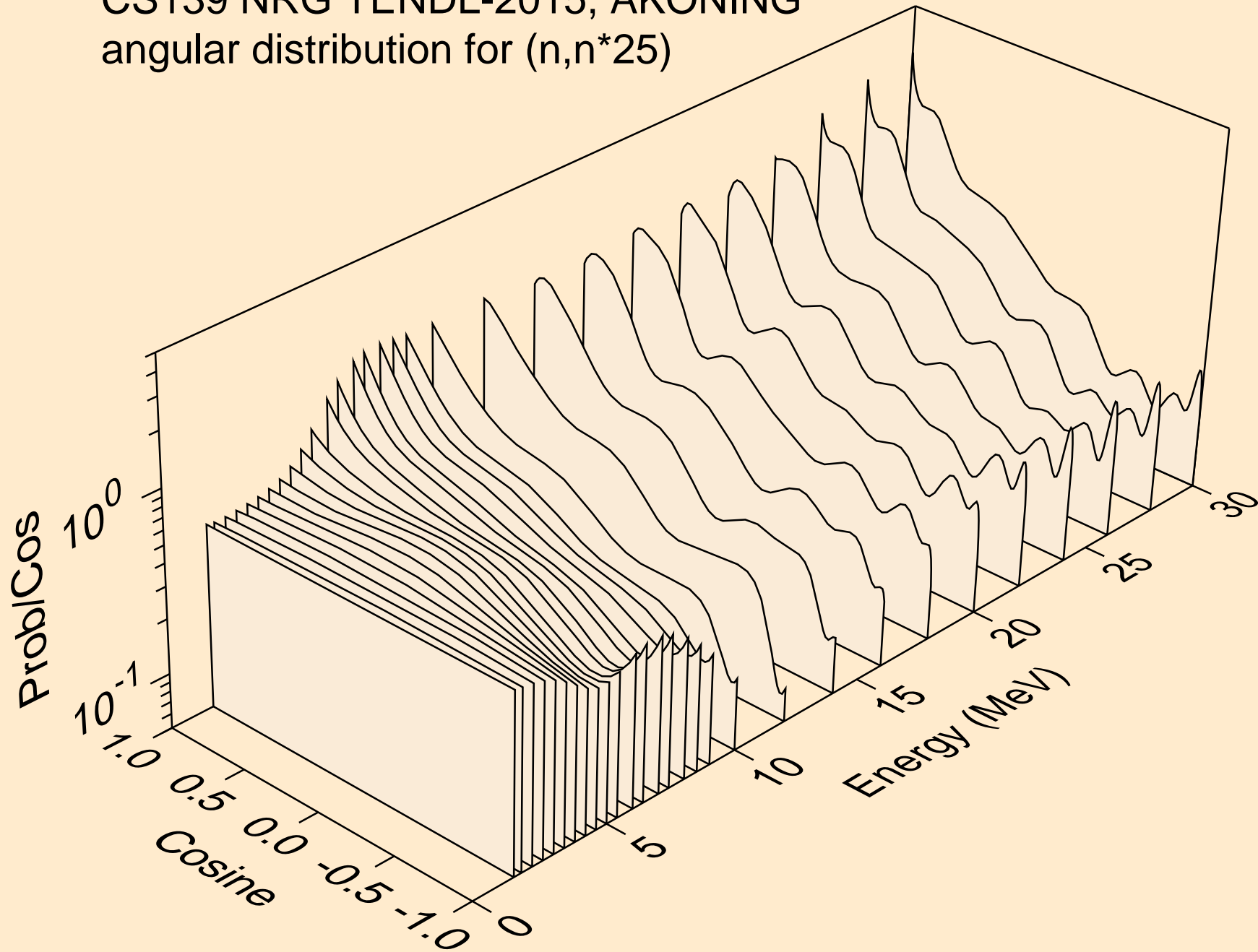
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*23)



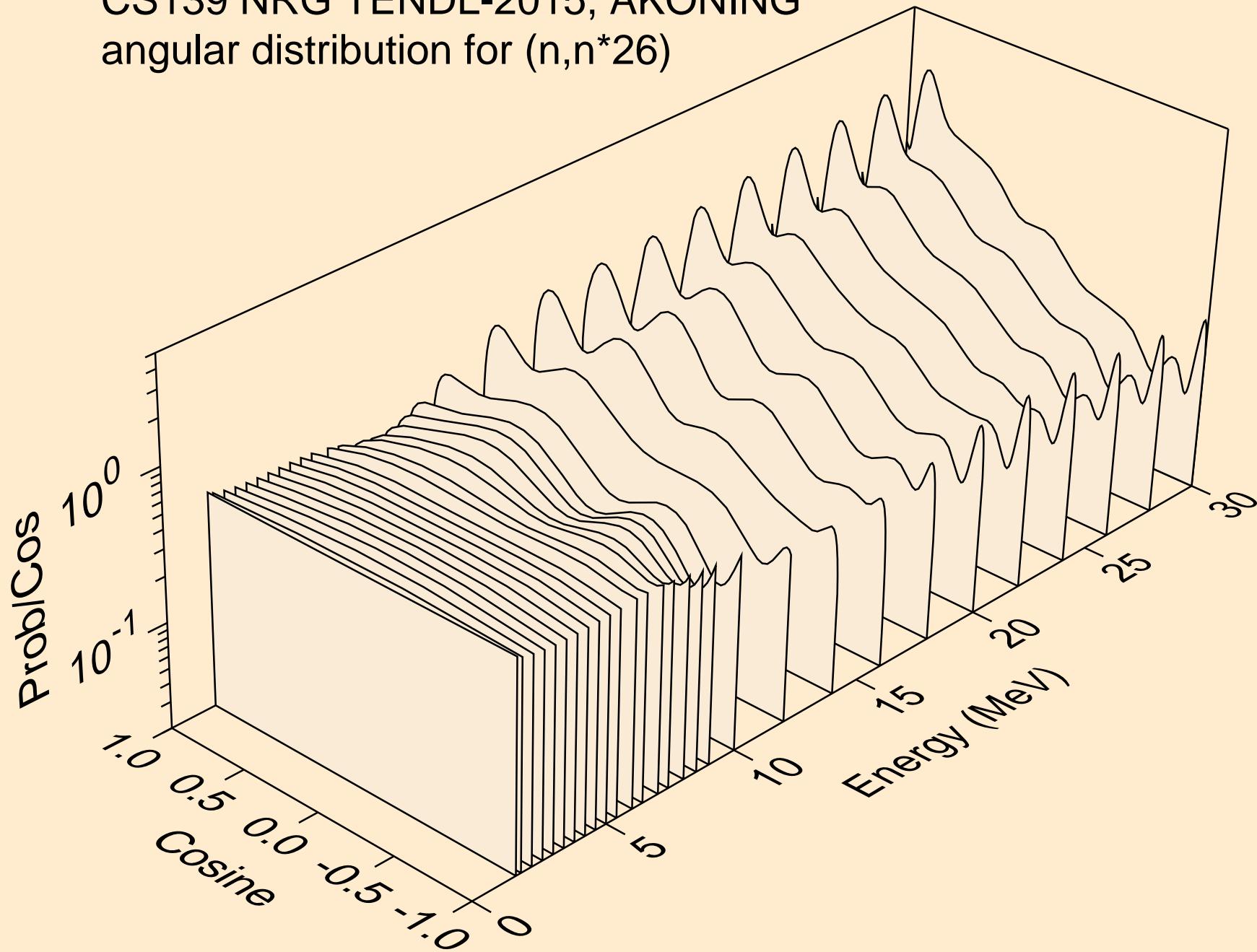
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*24)



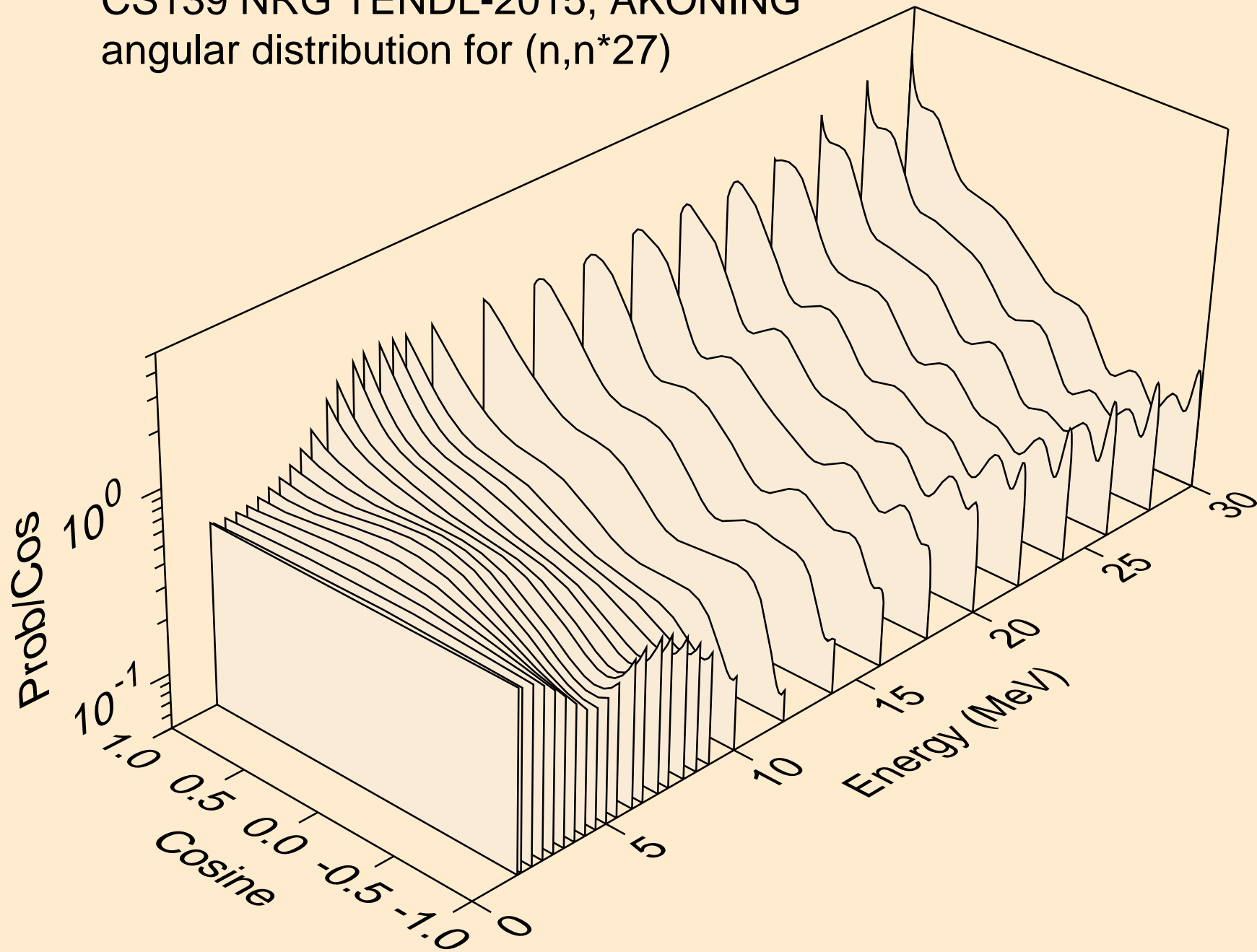
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angular distribution for (n,n\*25)



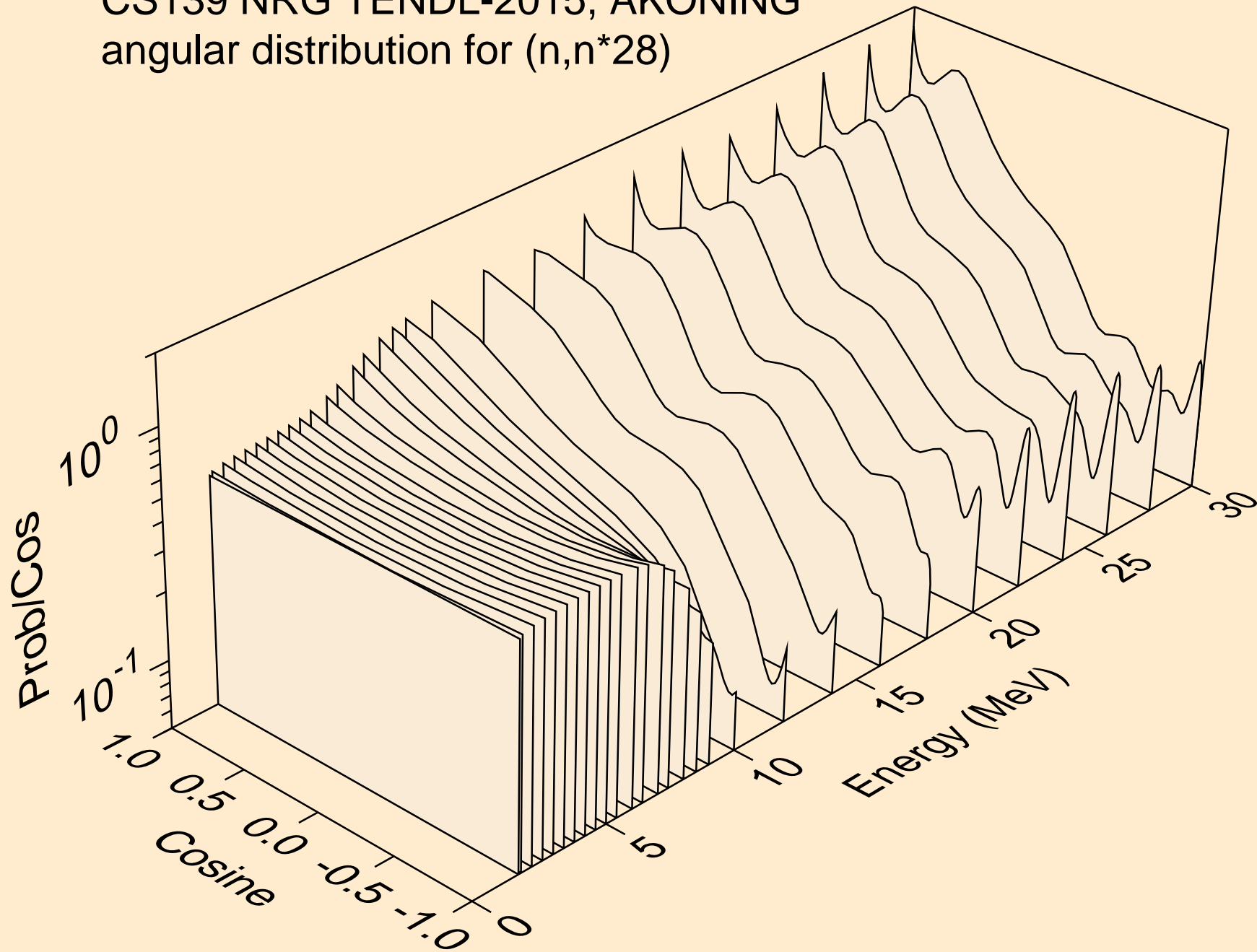
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*26)



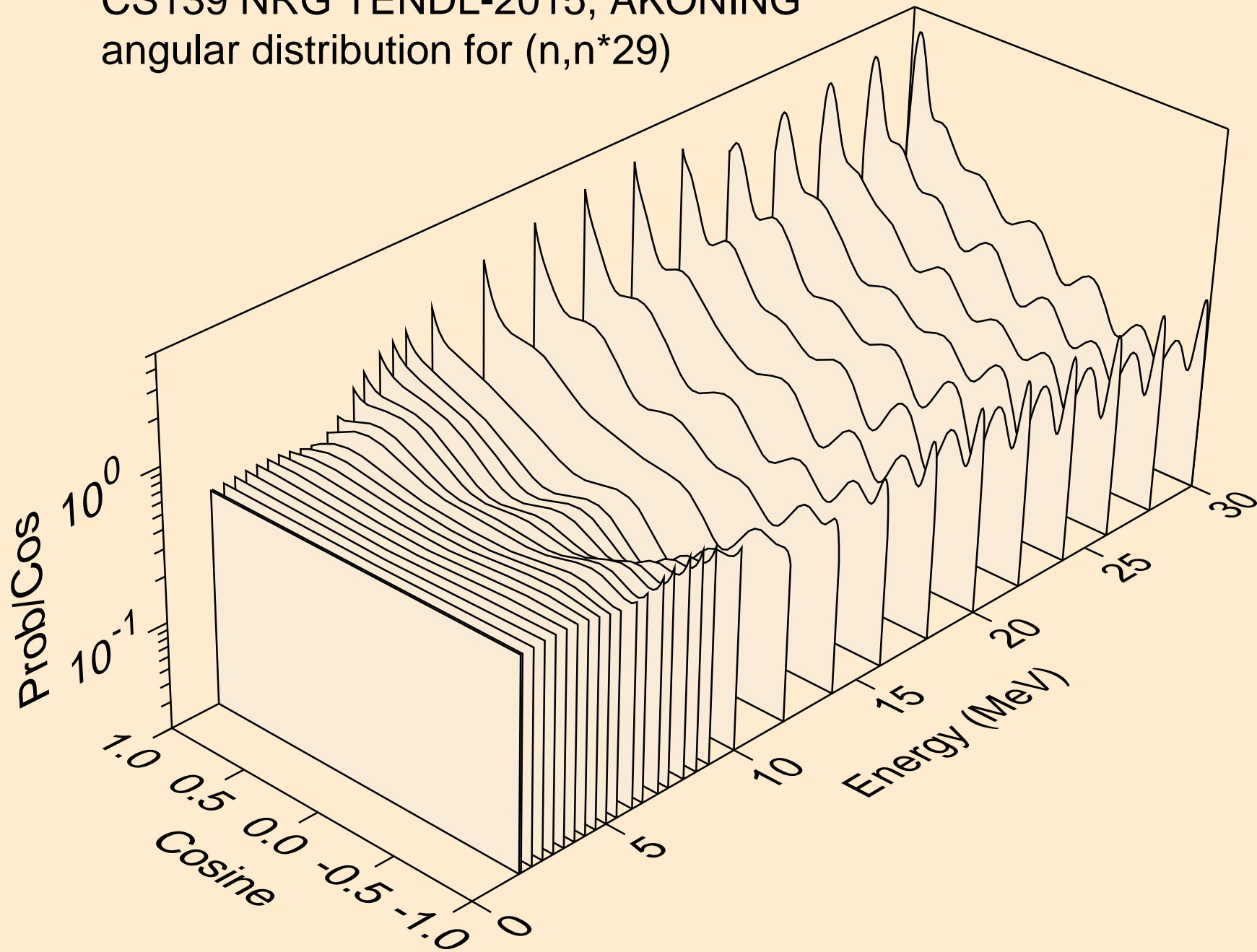
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angular distribution for (n,n\*27)



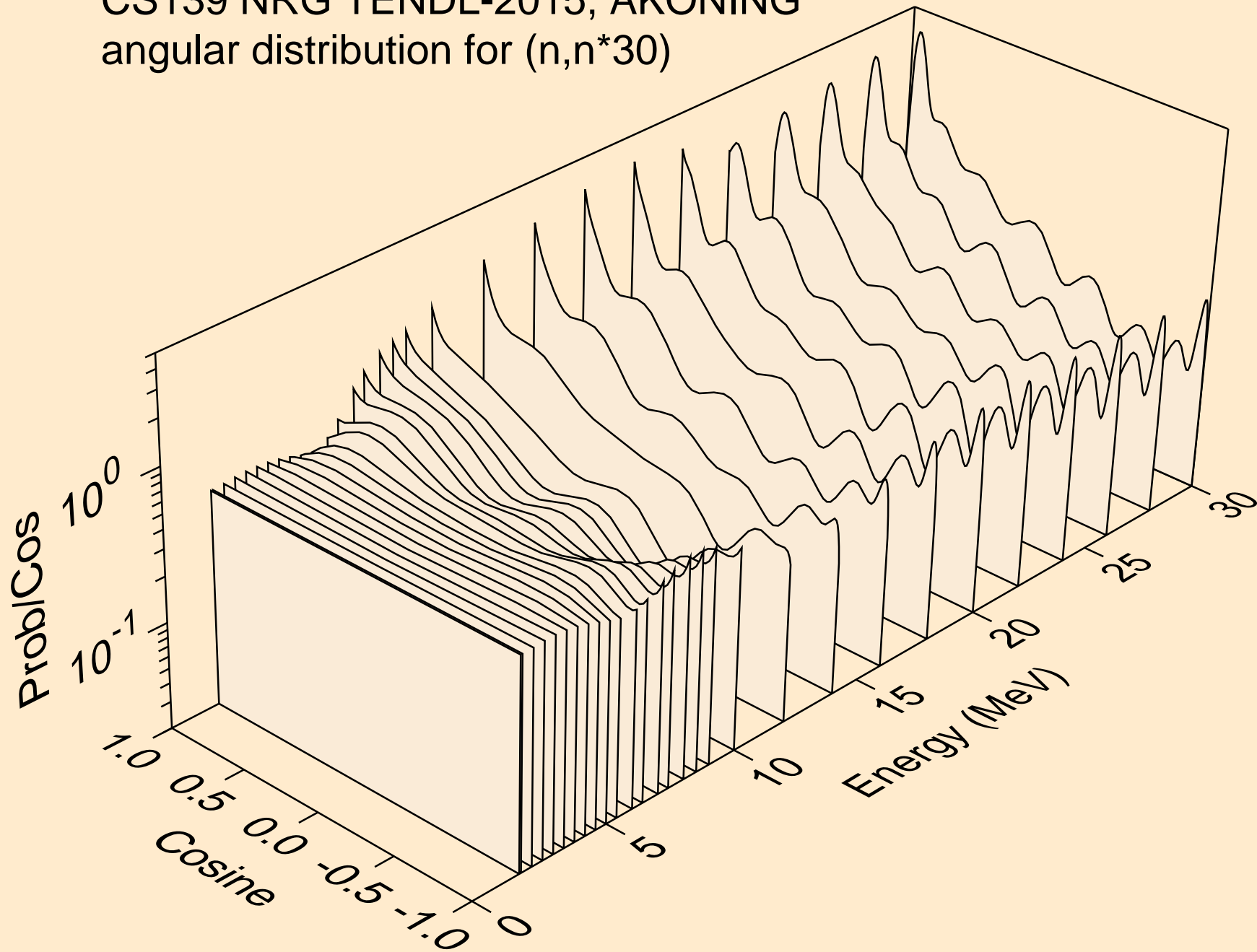
CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*28)



CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*29)

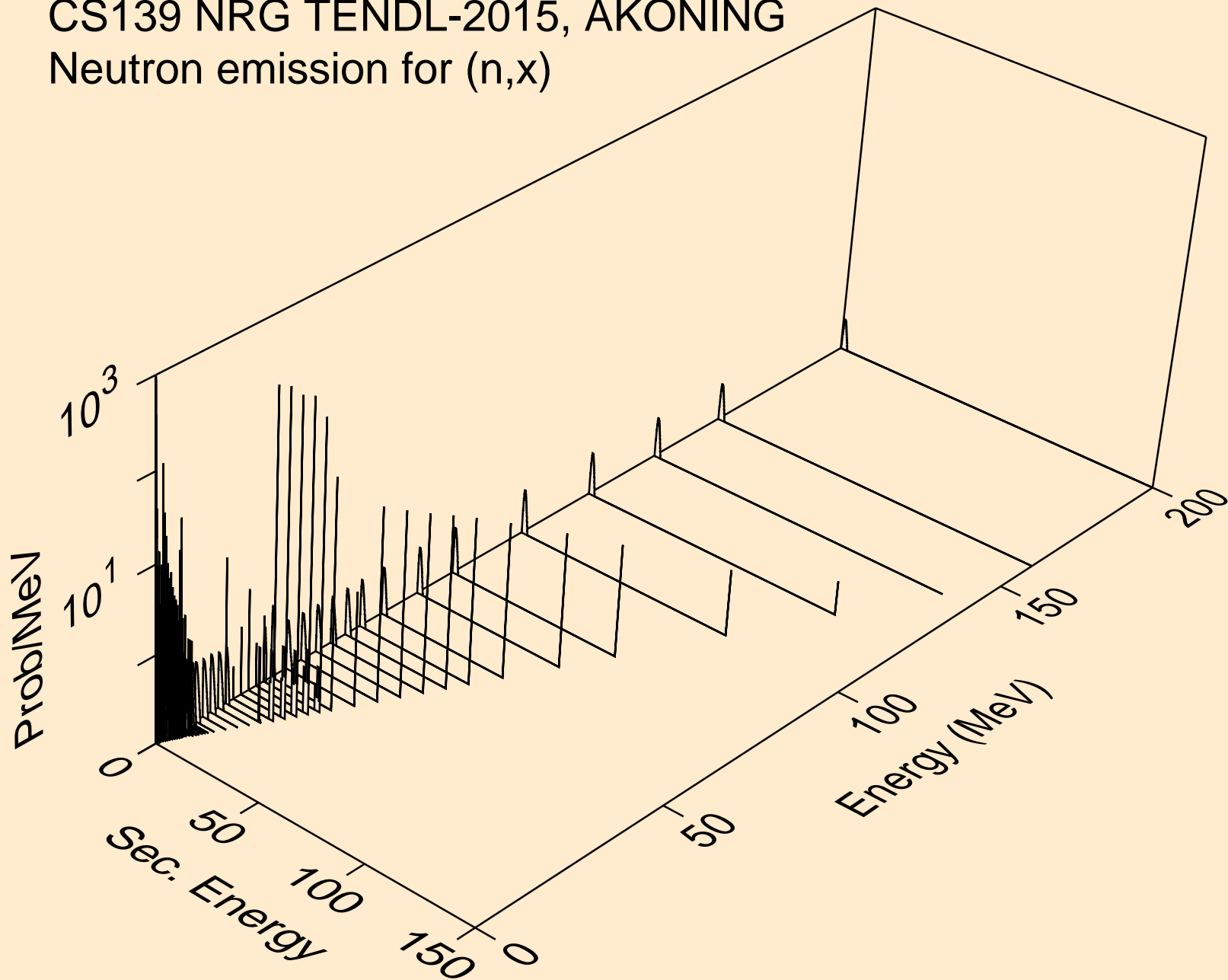


CS139 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*30)

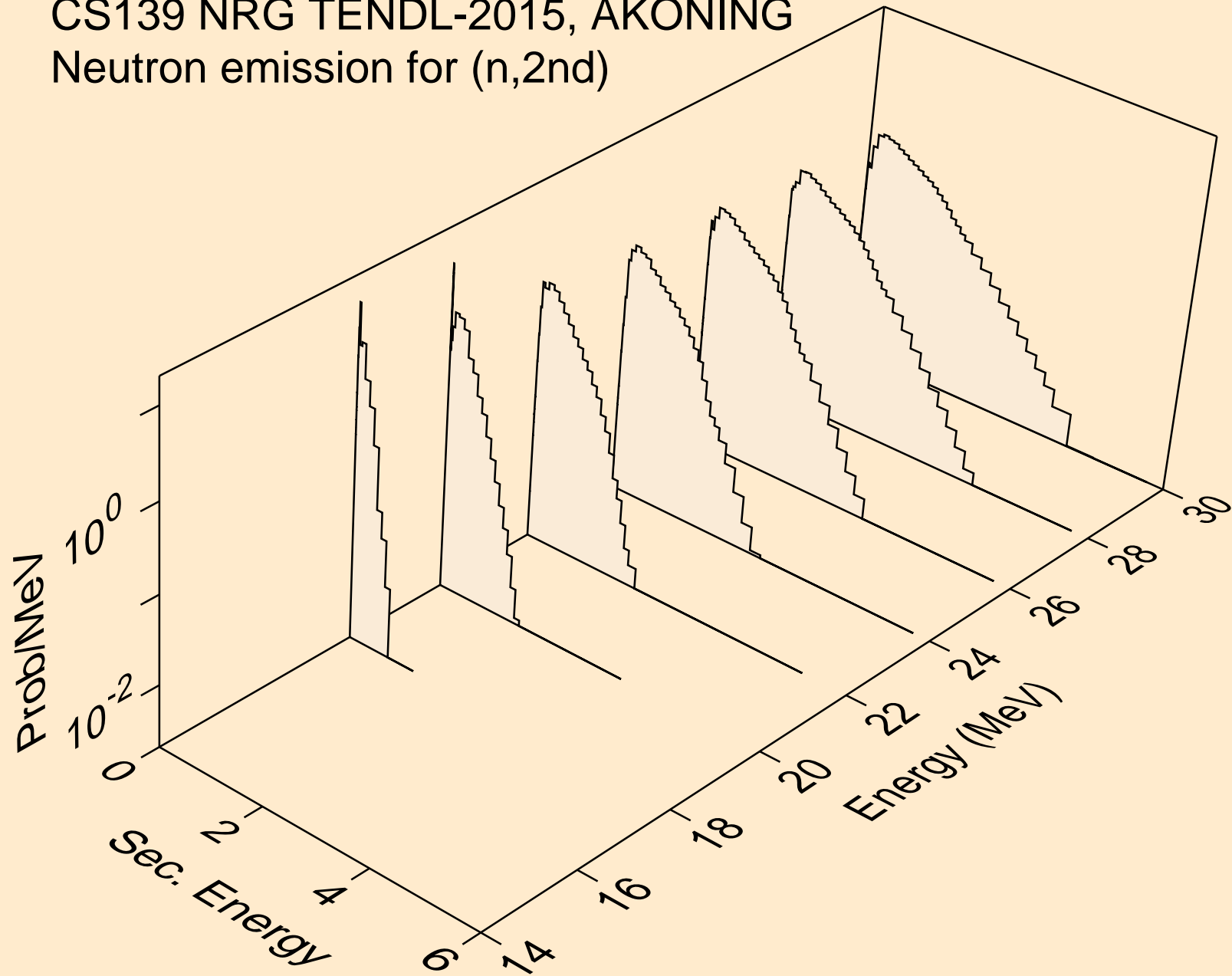




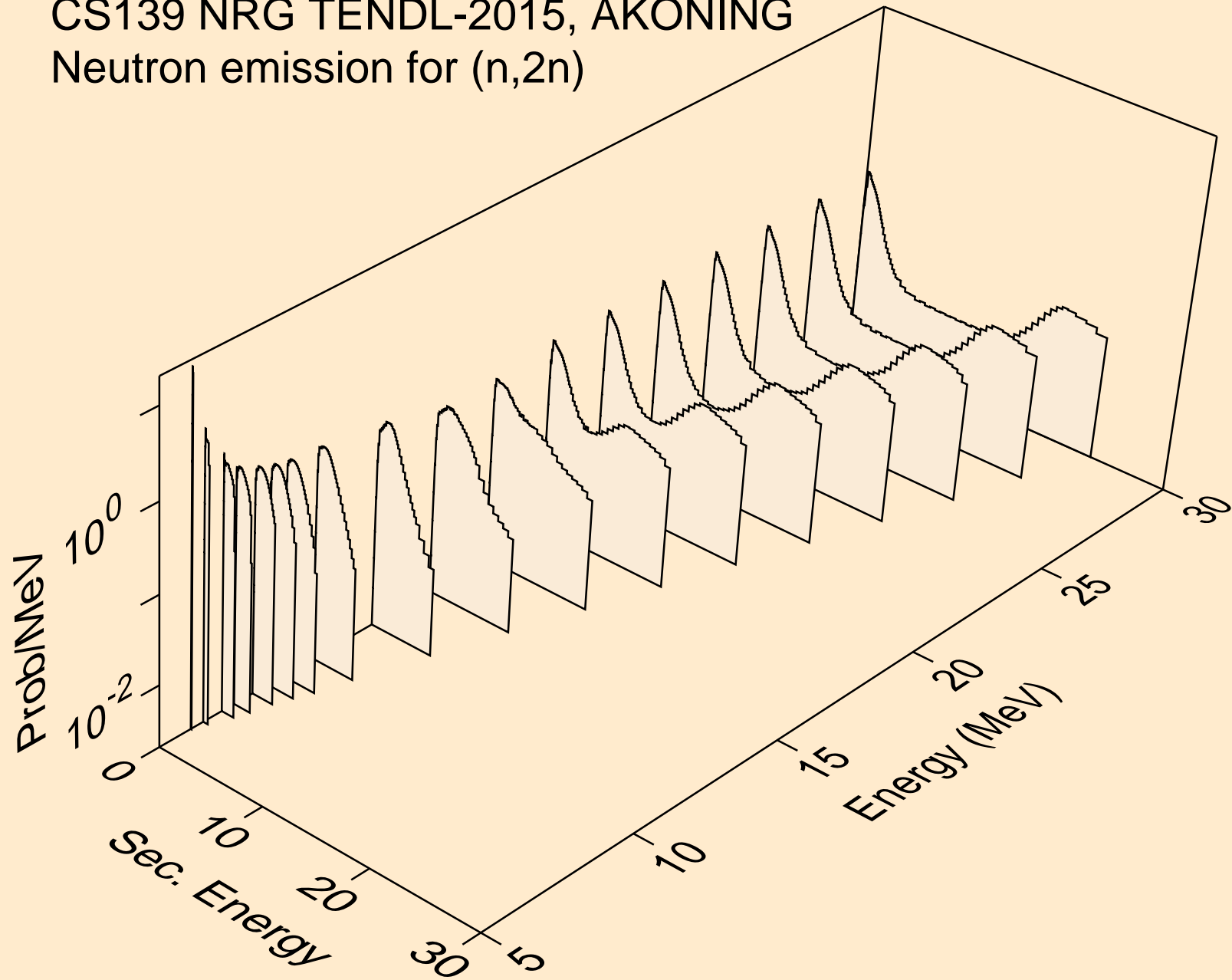
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,x)



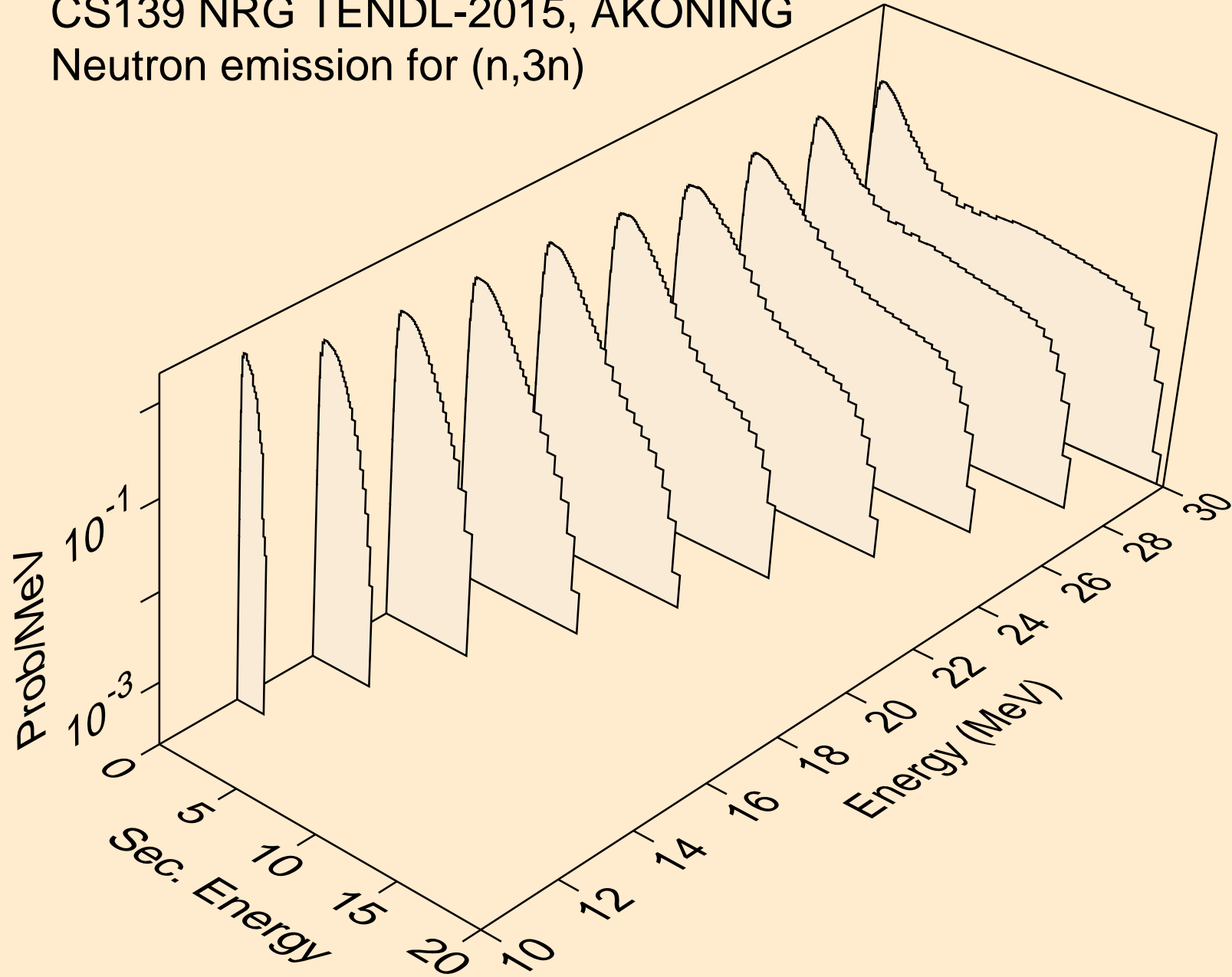
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2nd)



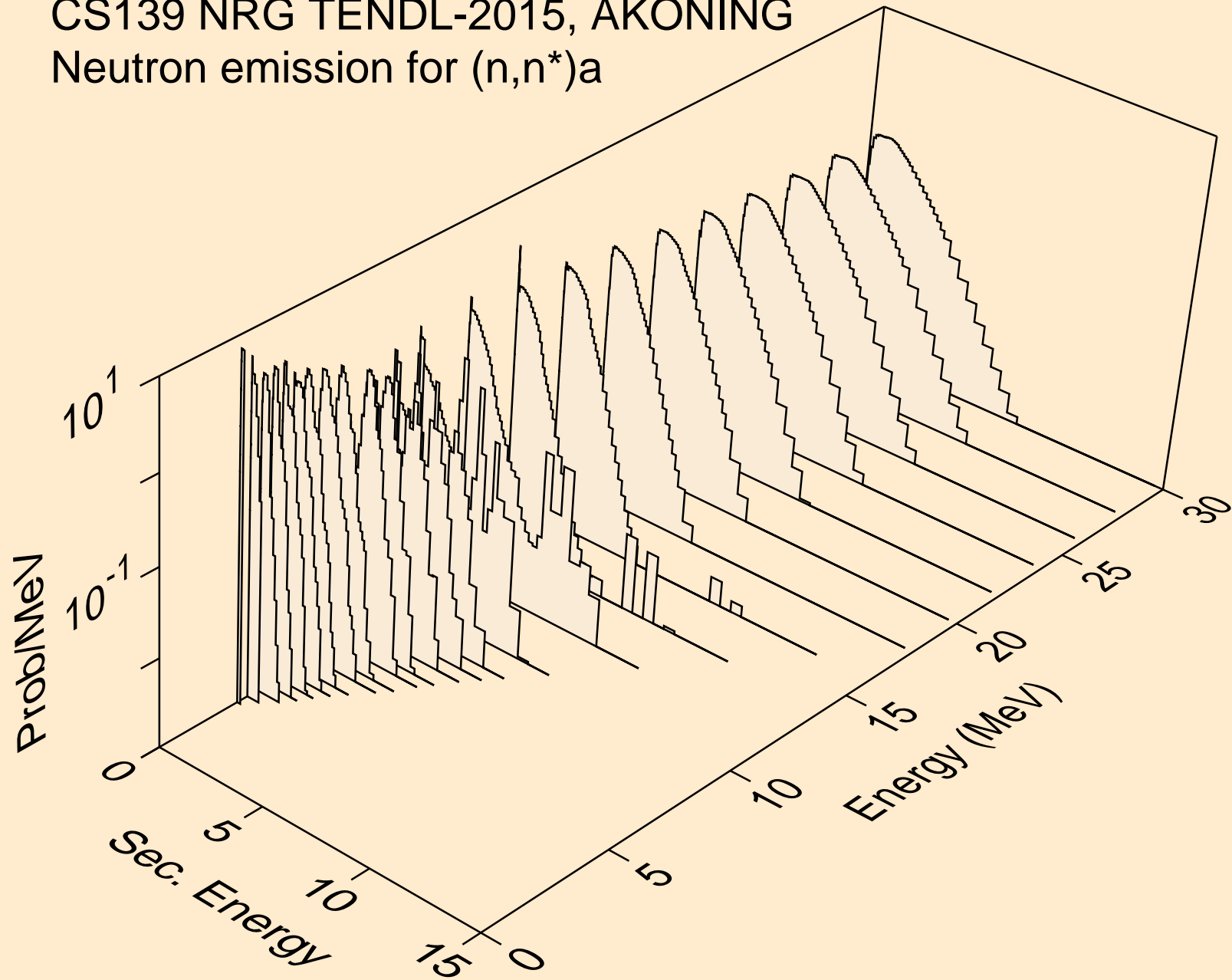
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)



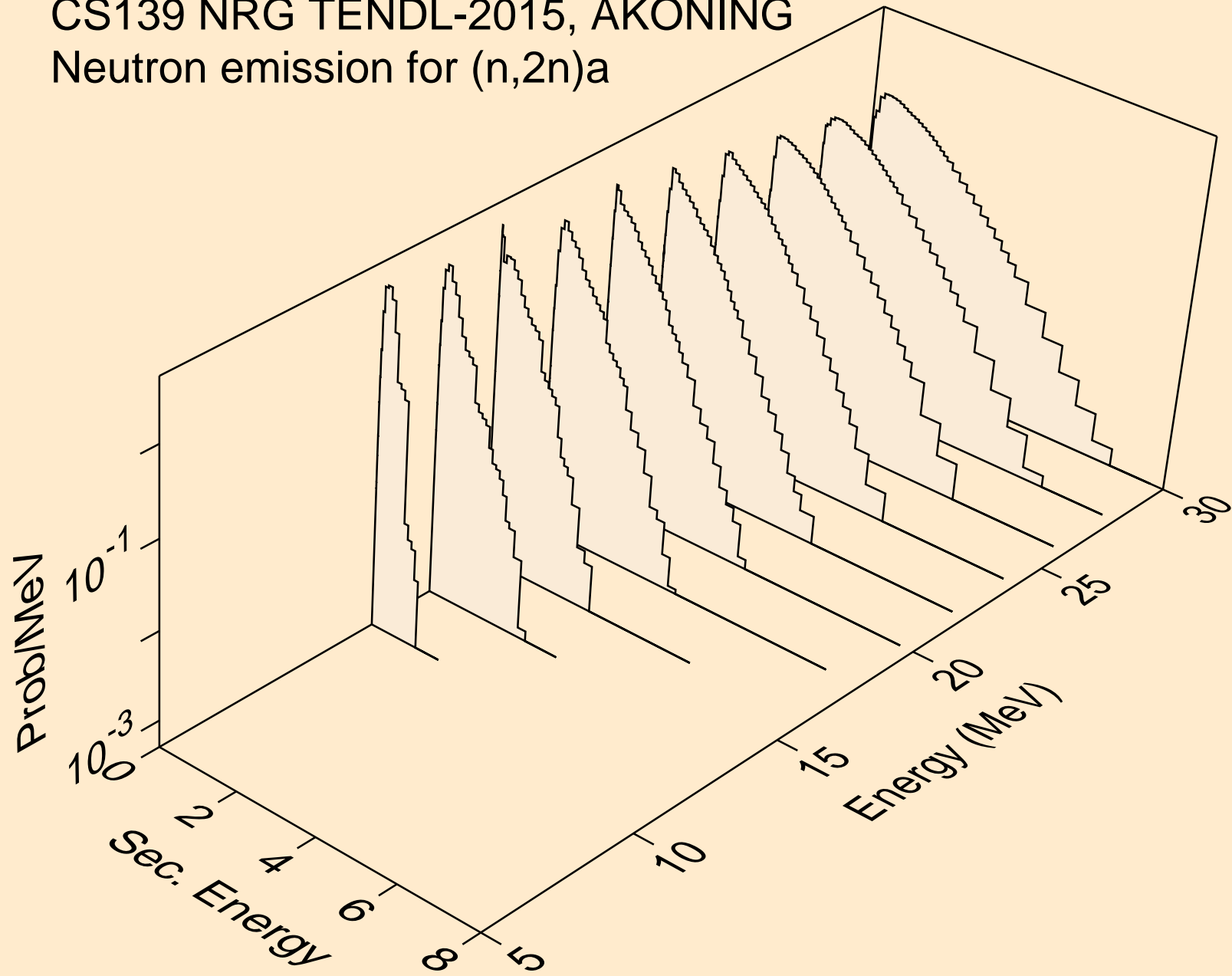
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)



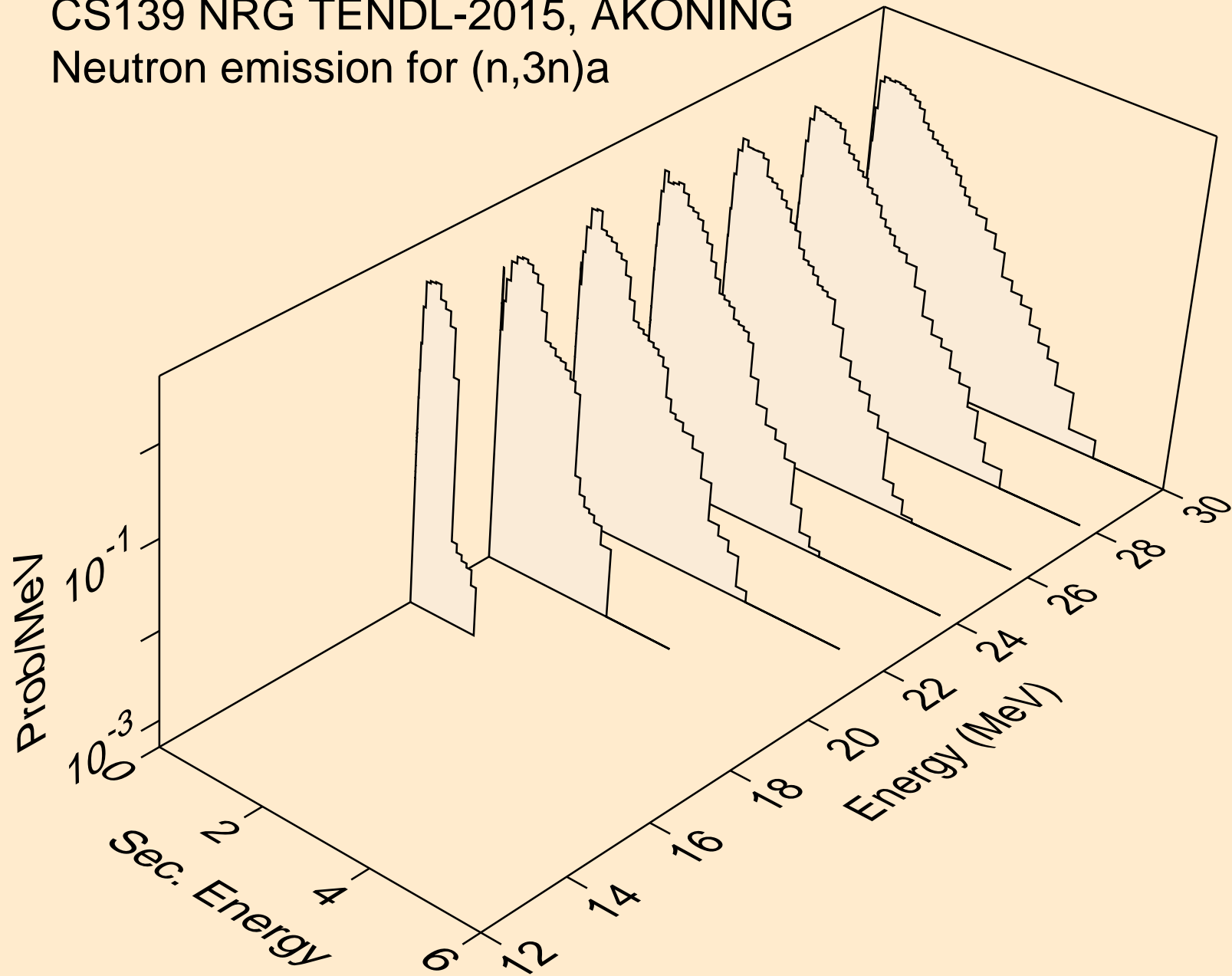
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)a



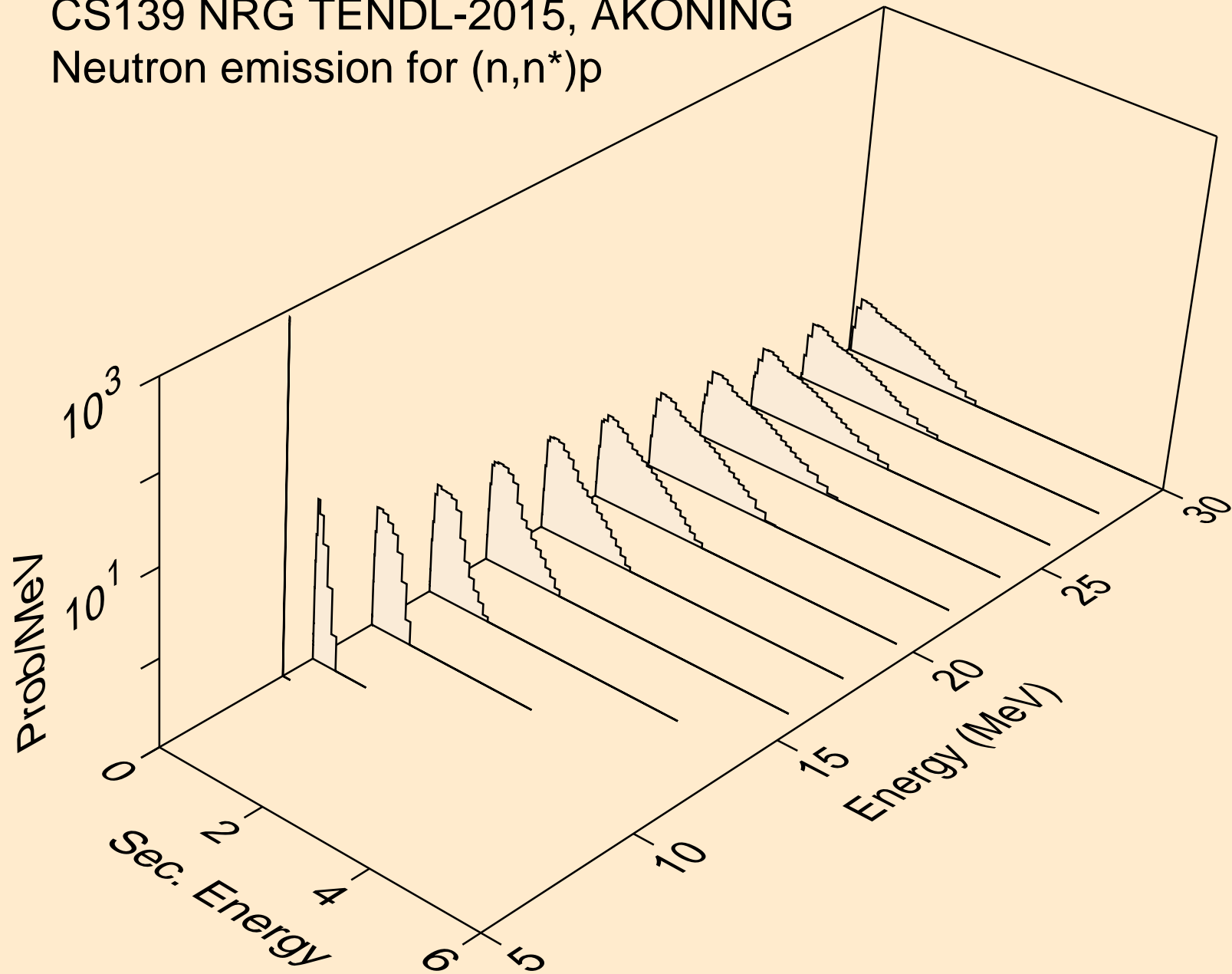
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)a



CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)a

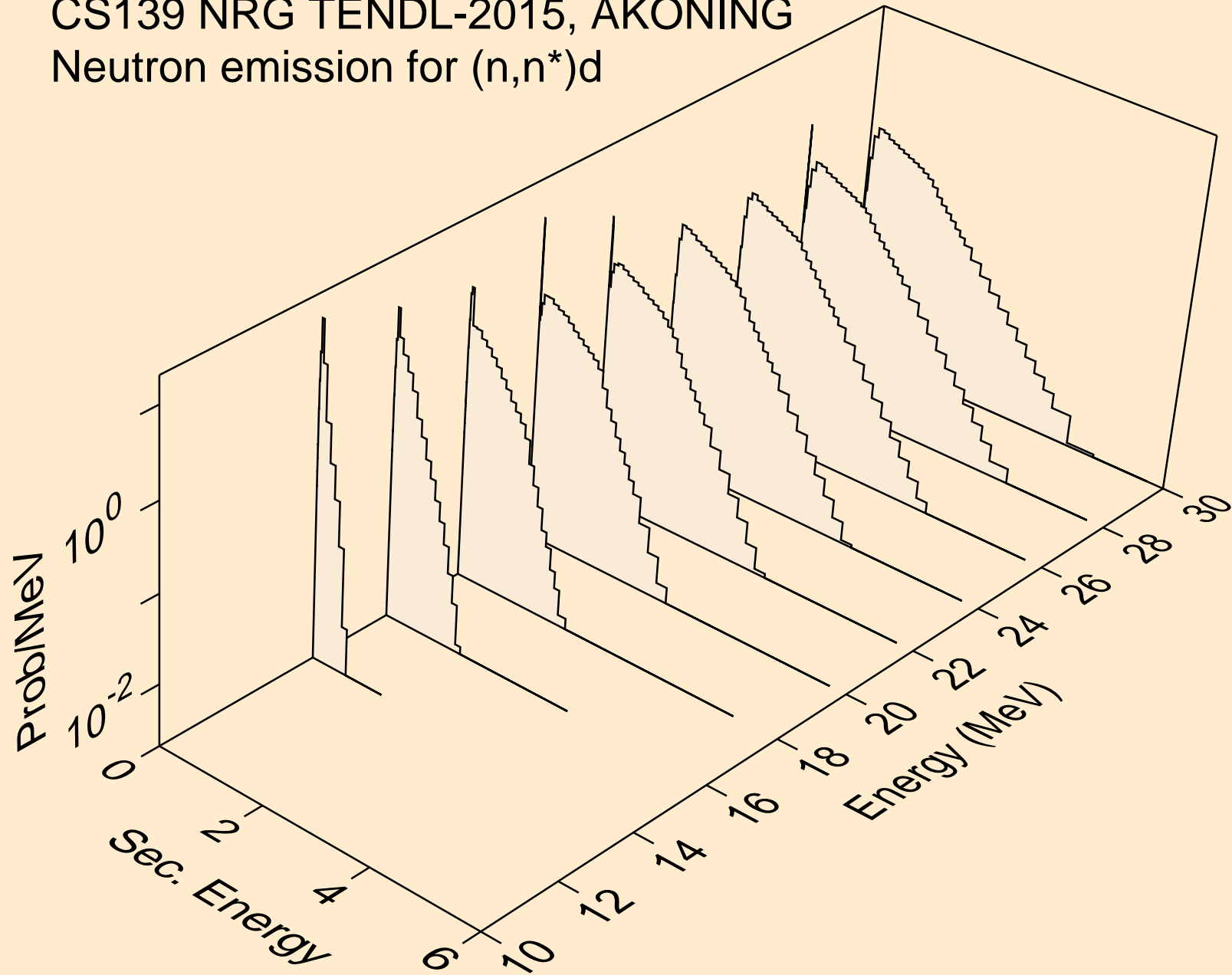


CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)p

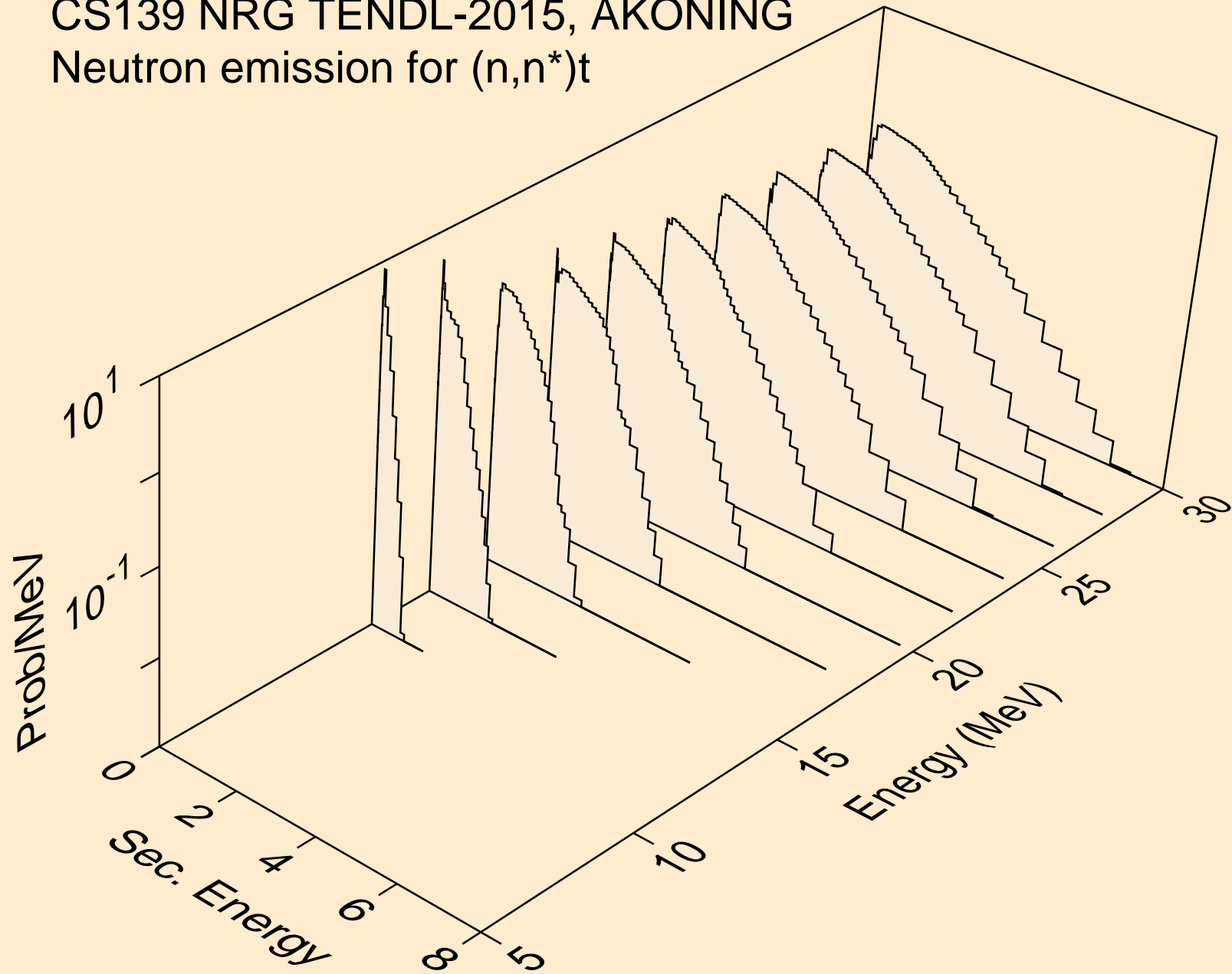




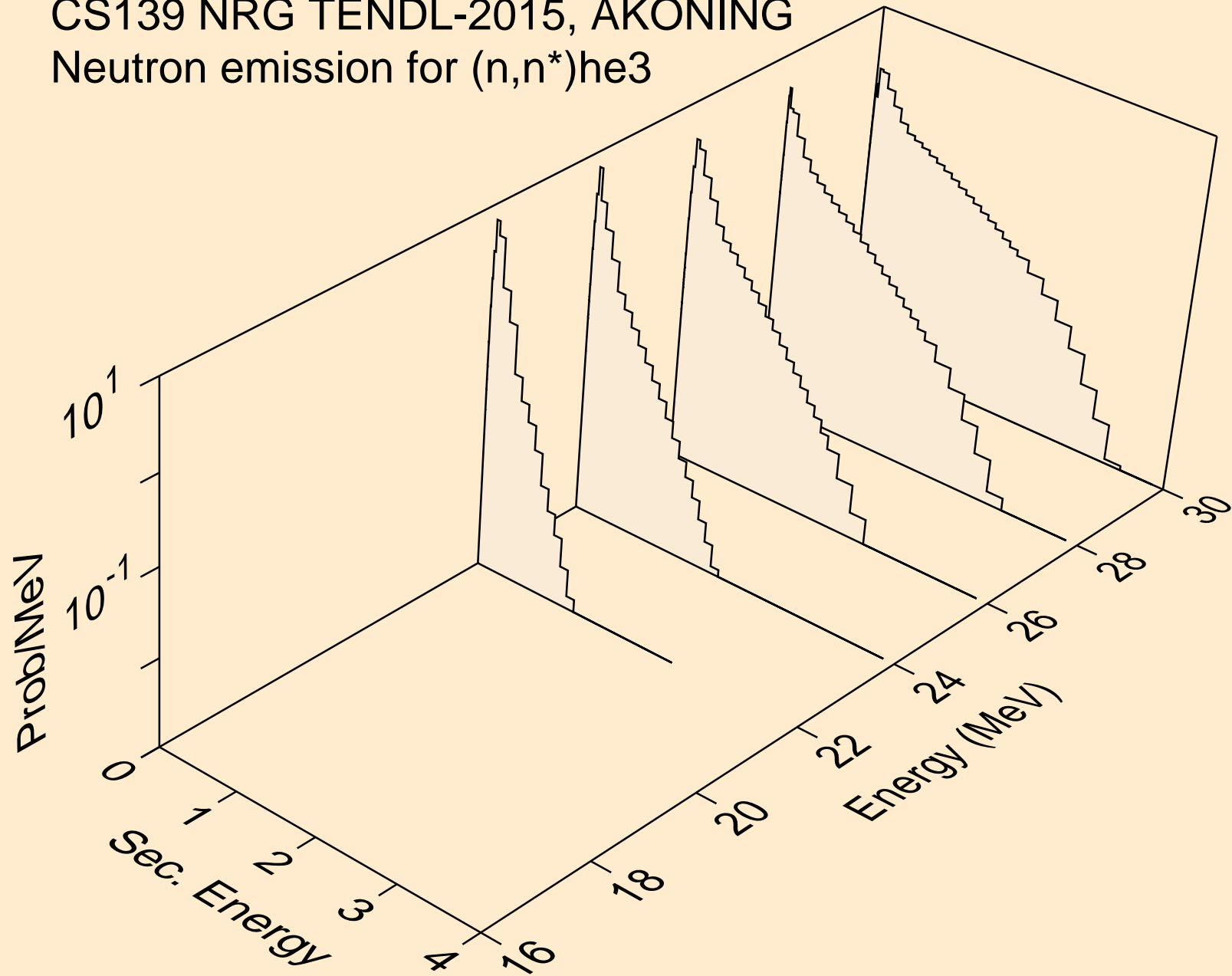
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d



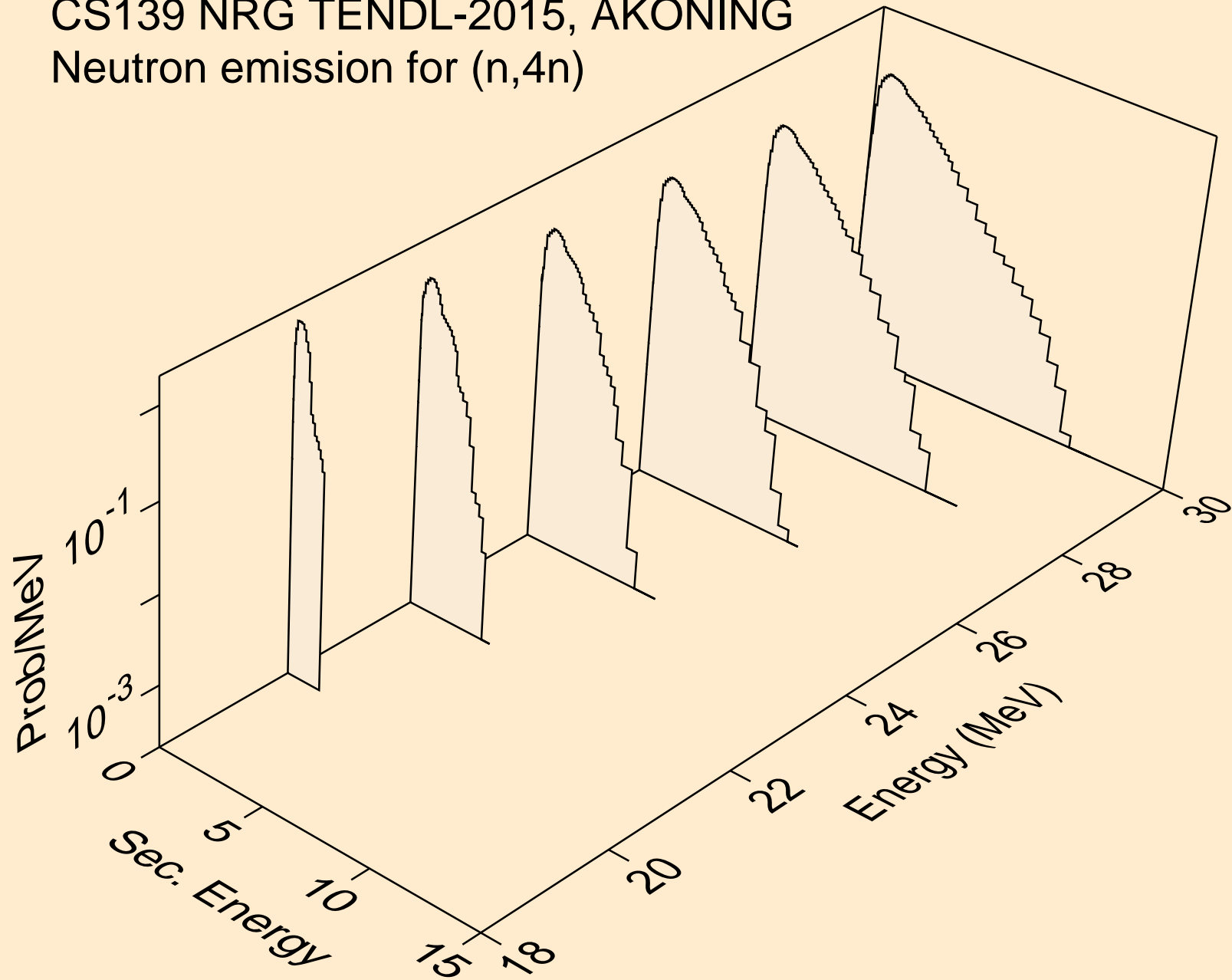
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t



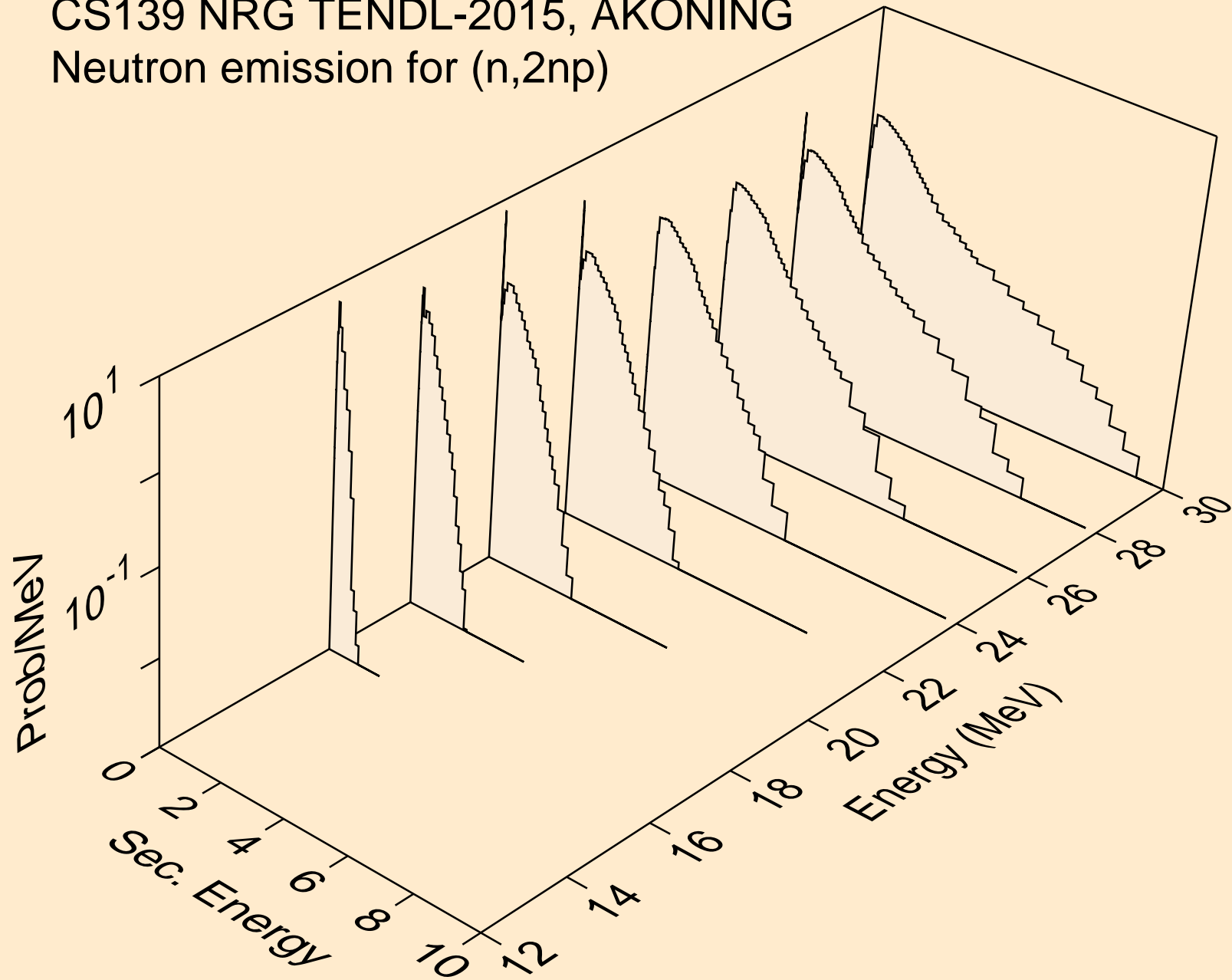
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)he3



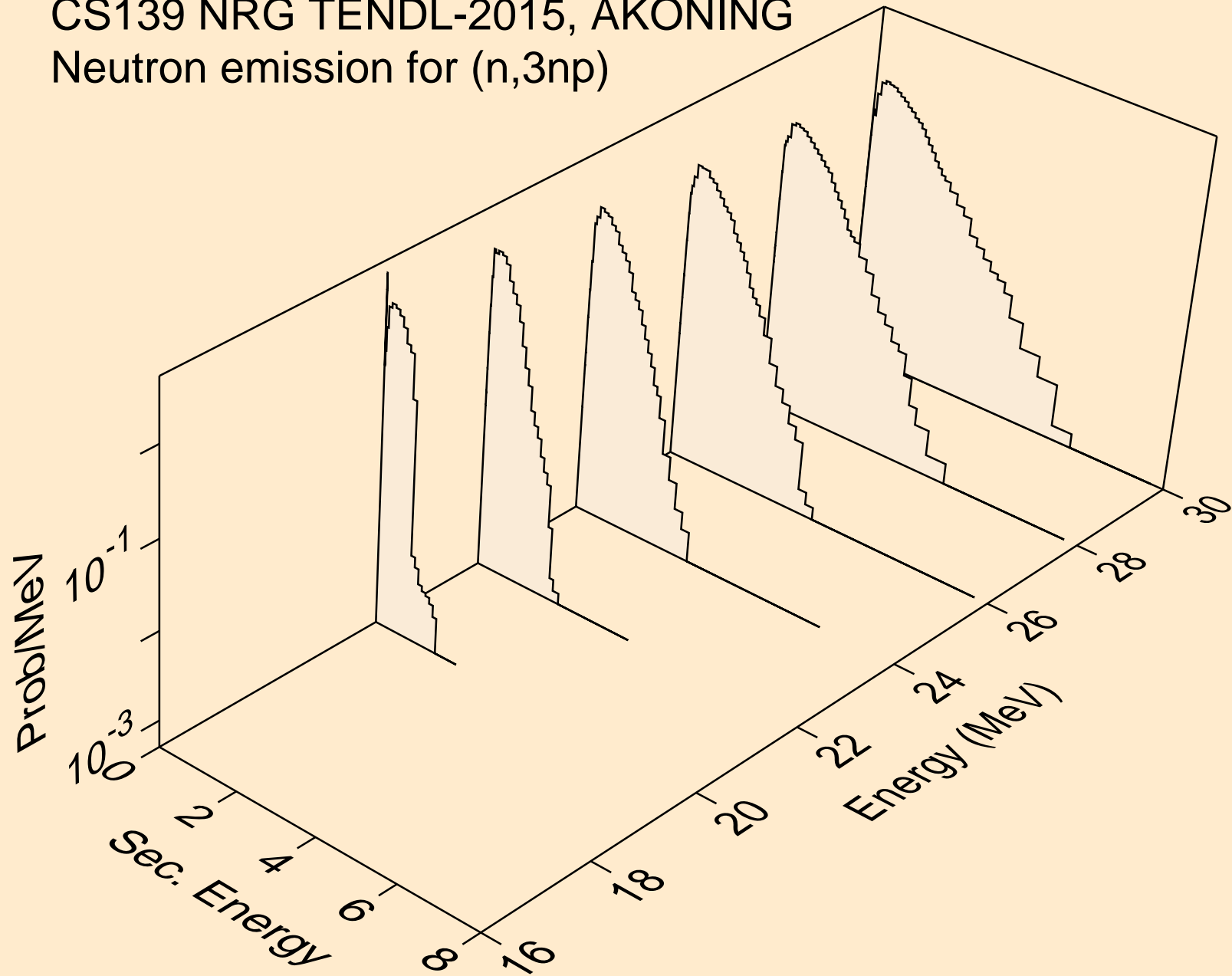
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,4n)



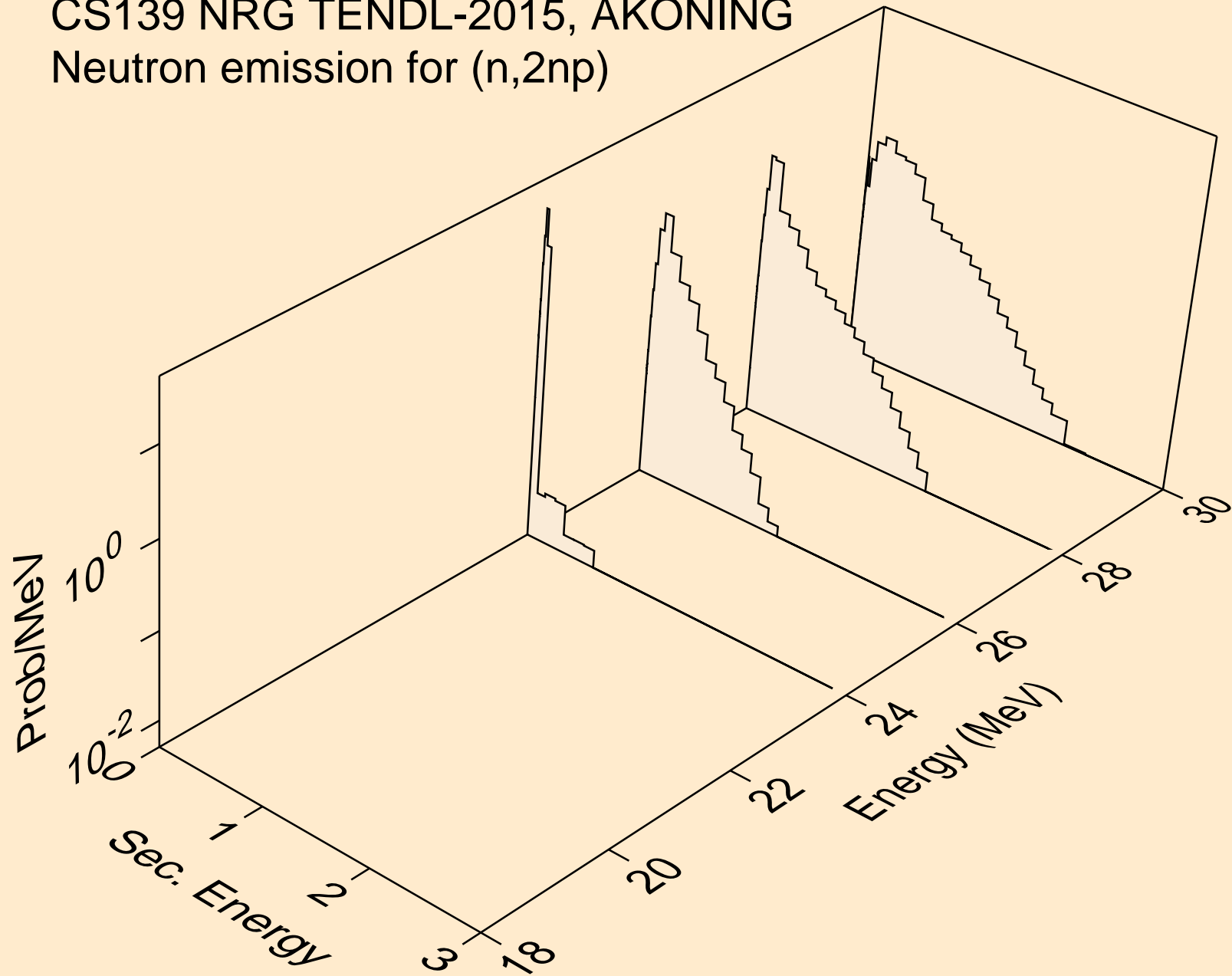
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



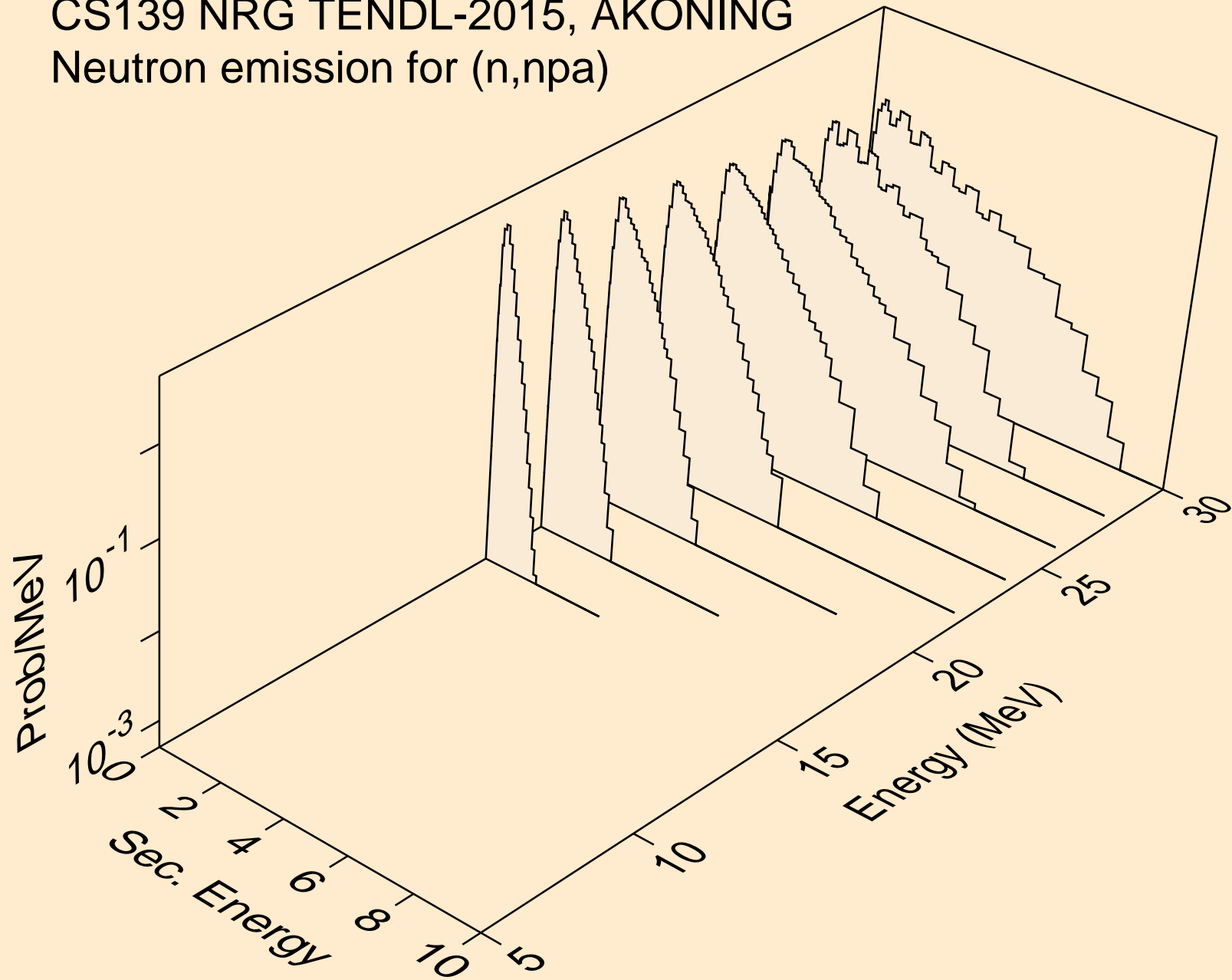
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,3np)



CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)

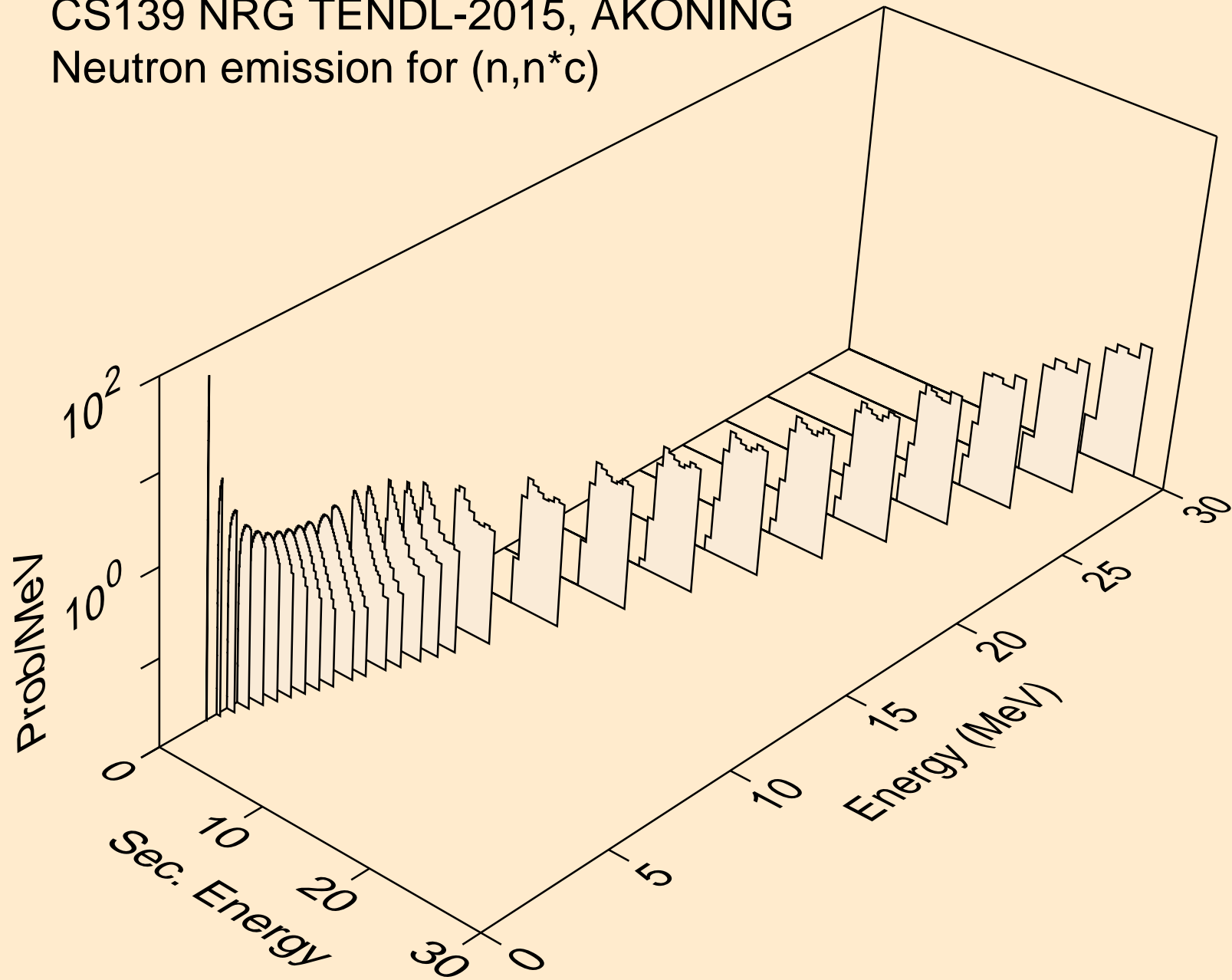


CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,npa)

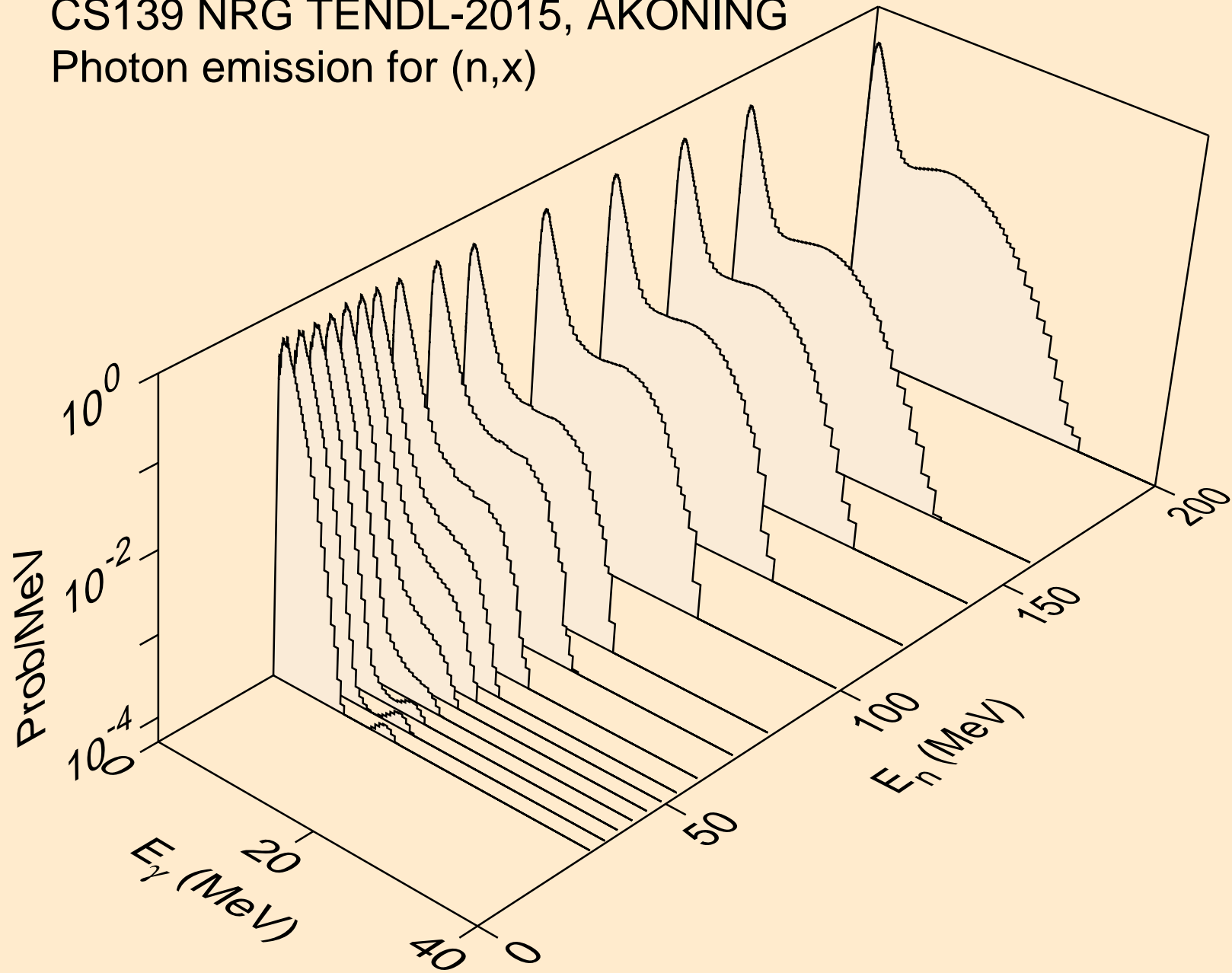




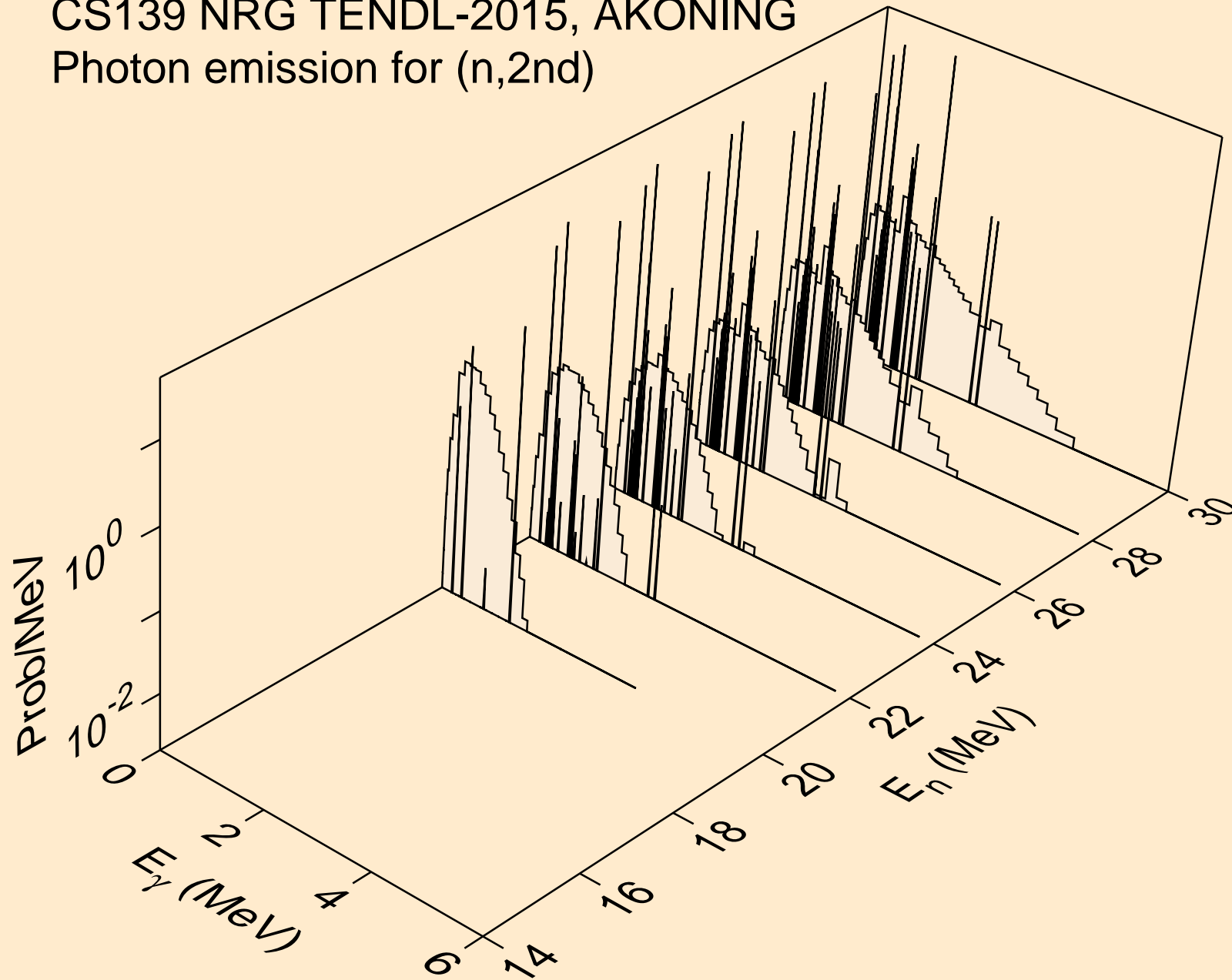
CS139 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*c)



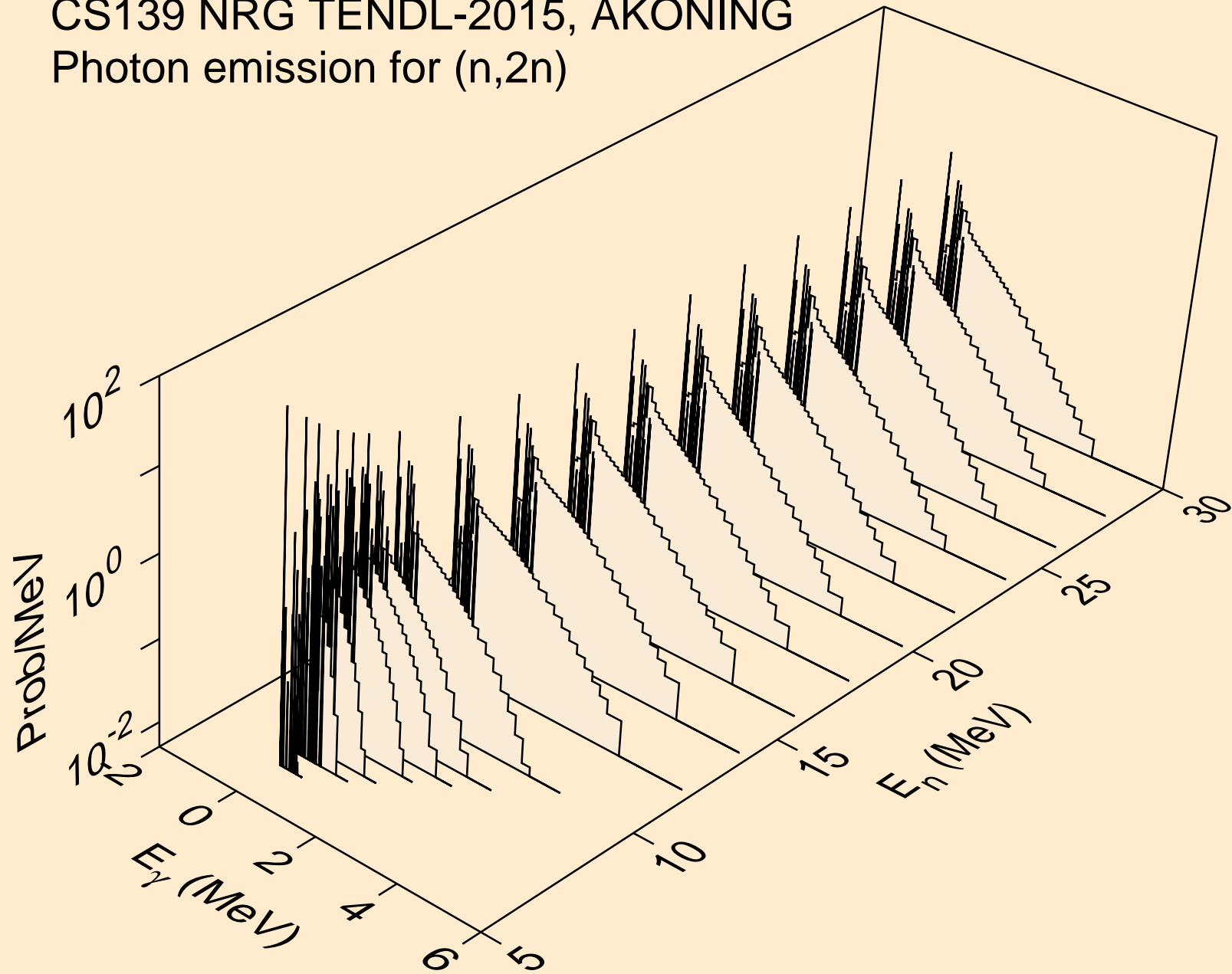
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,x)



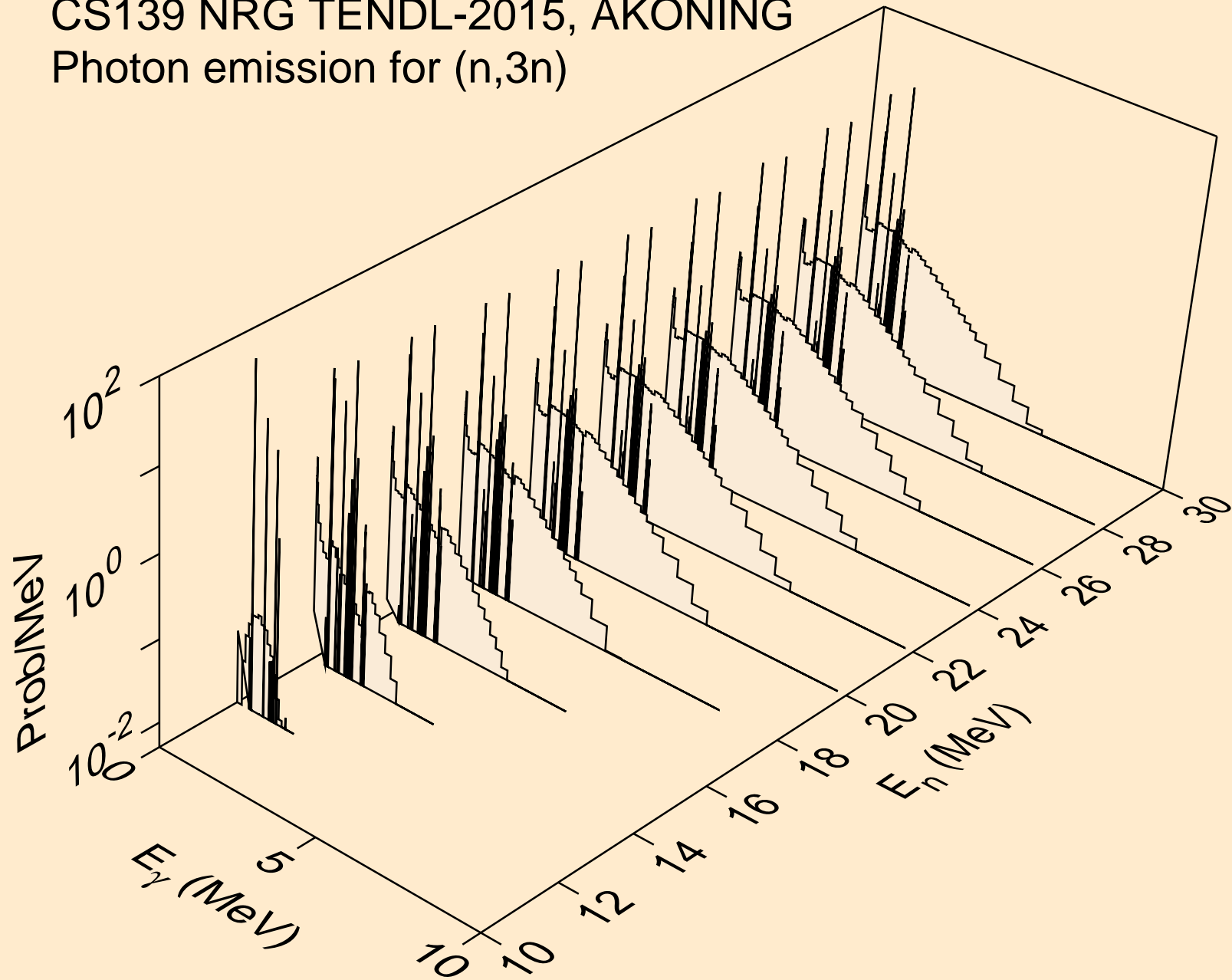
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,2nd)



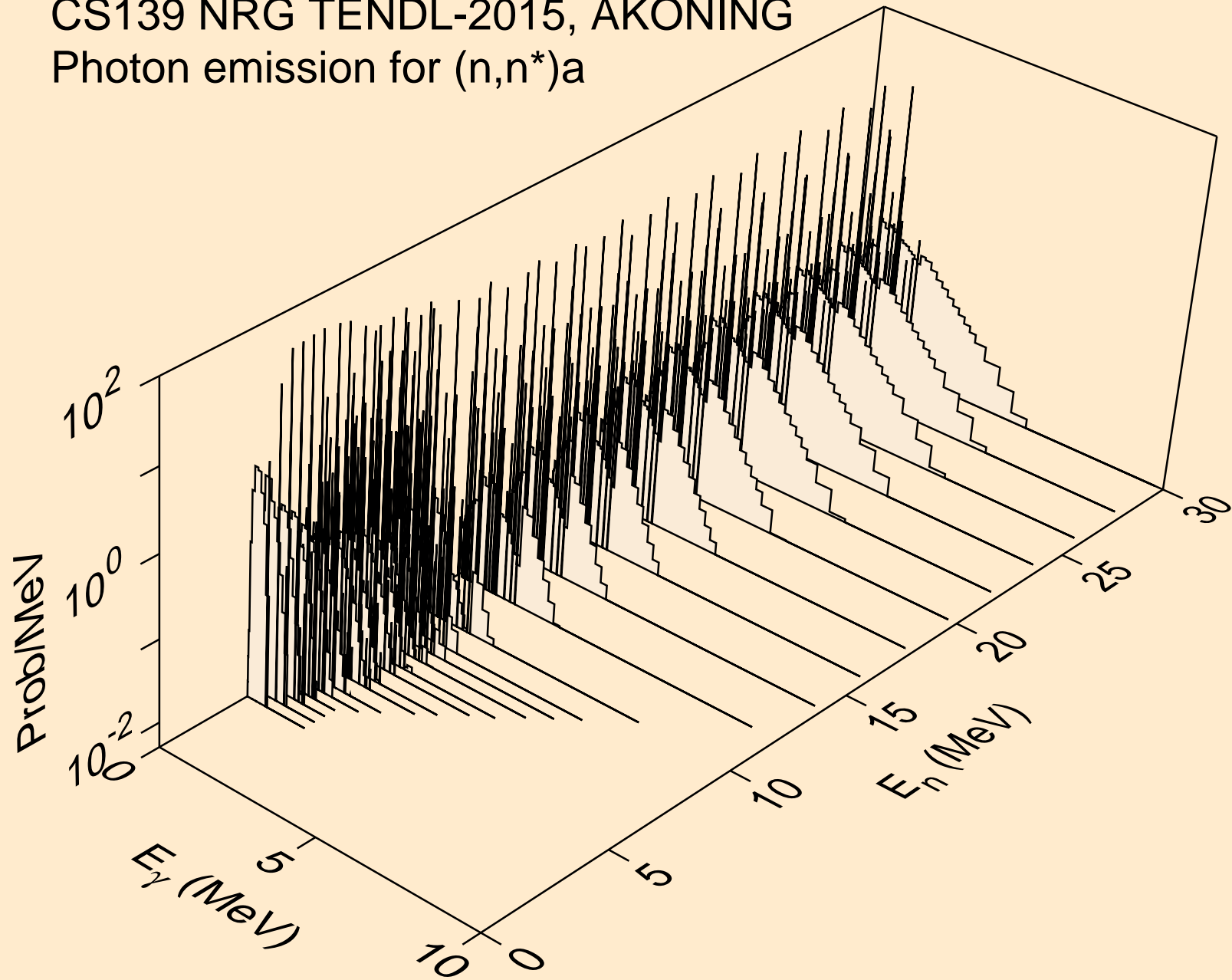
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)



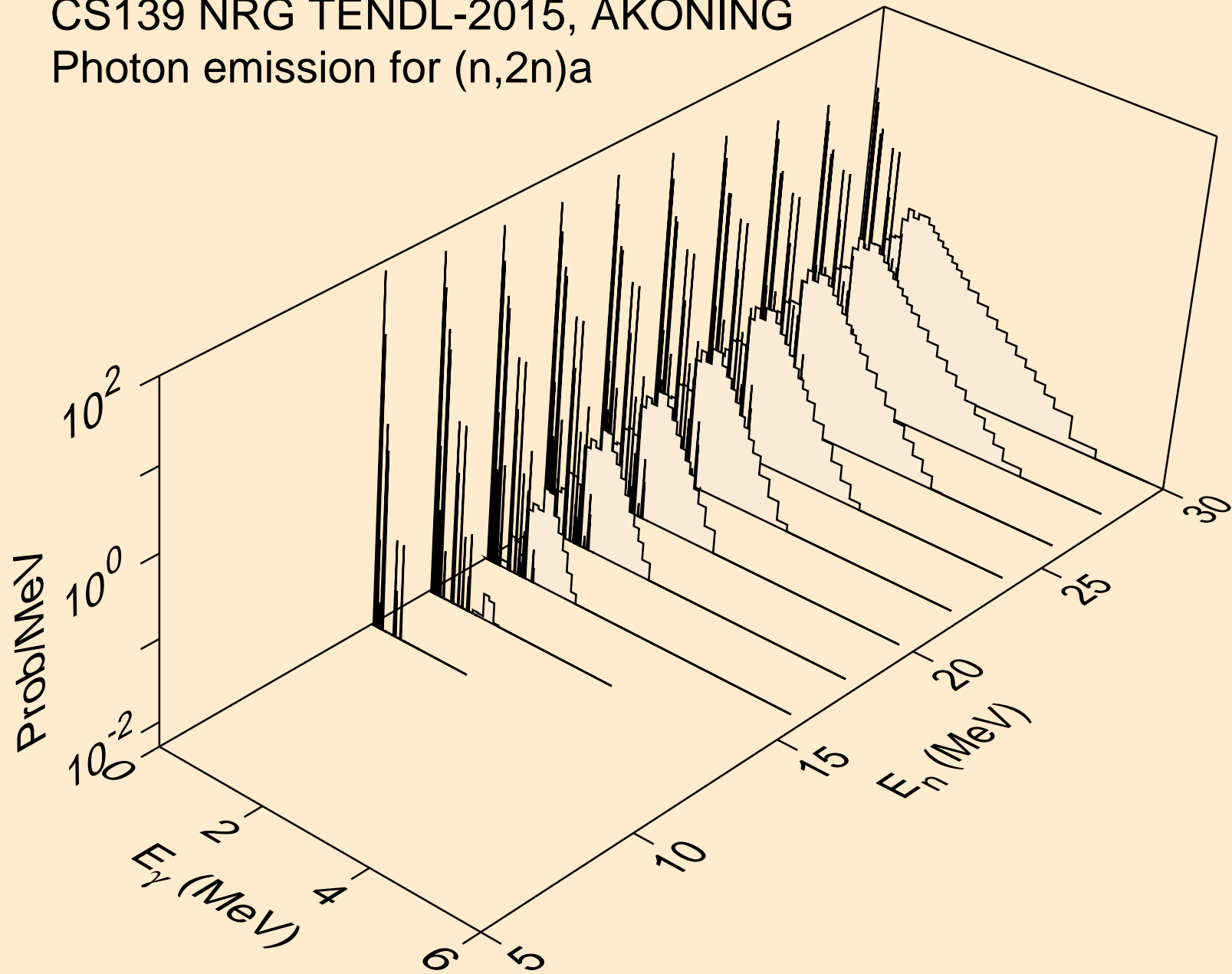
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)



CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)a

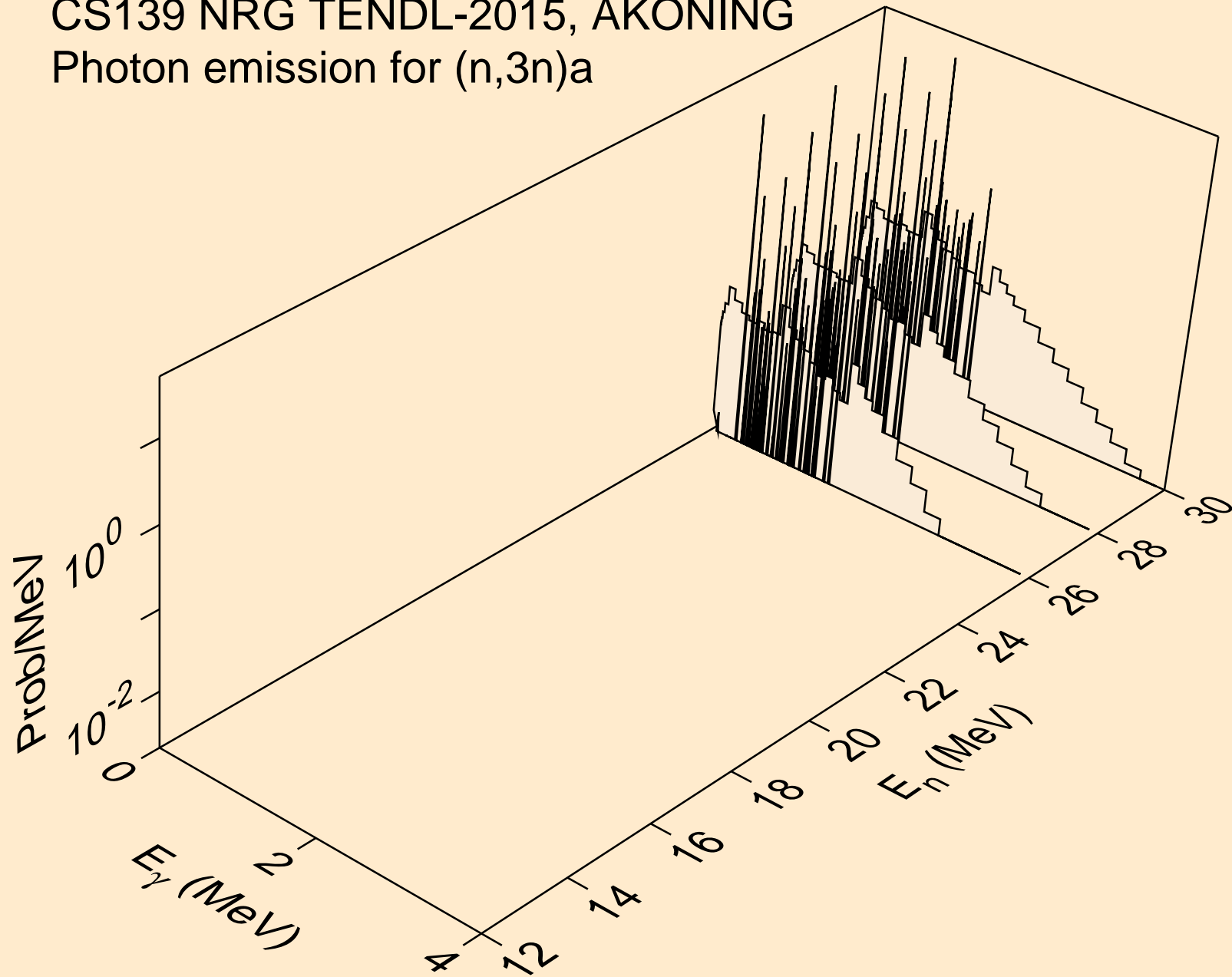


CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)a



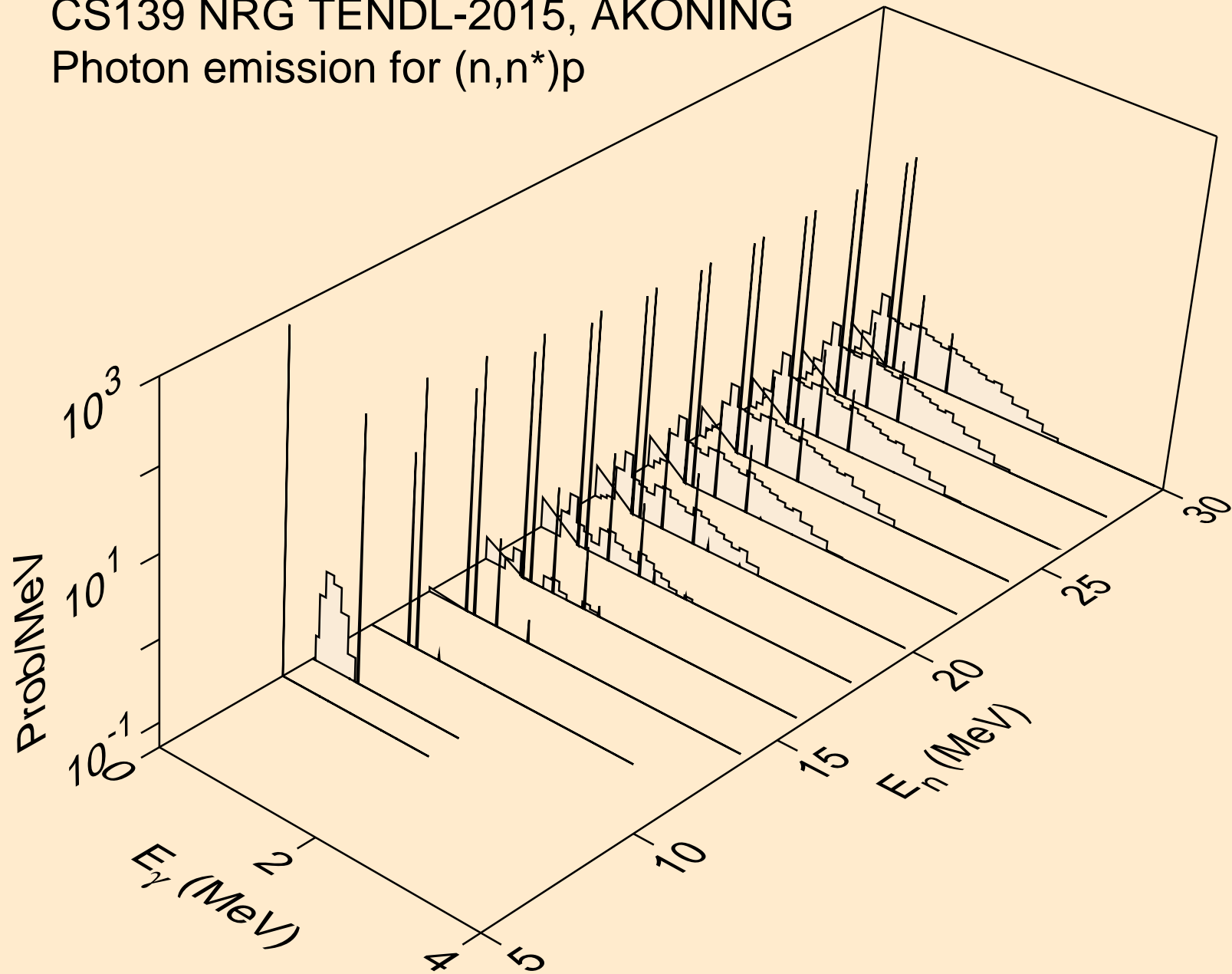
CS139 NRG TENDL-2015, AKONING

Photon emission for (n,3n)a

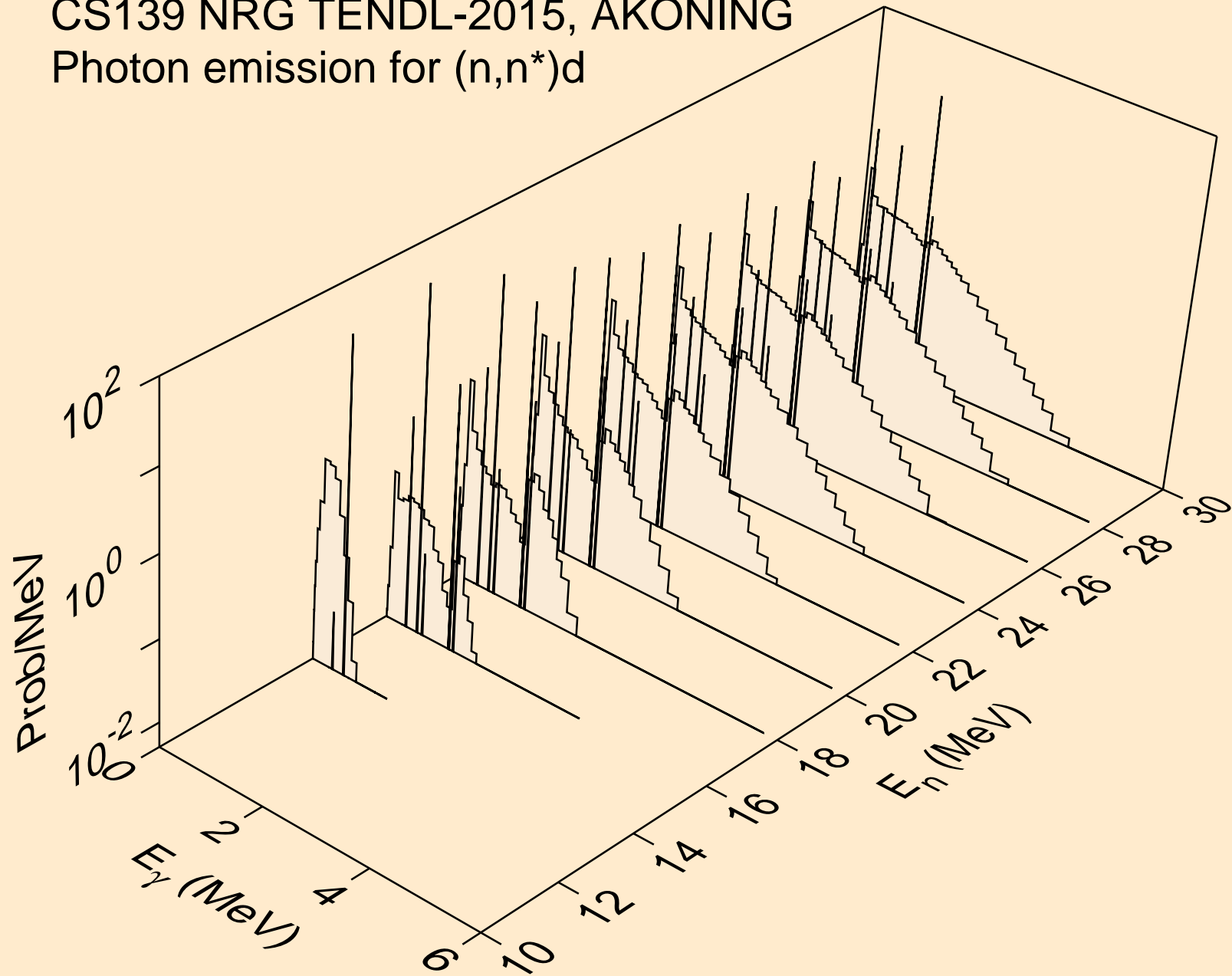




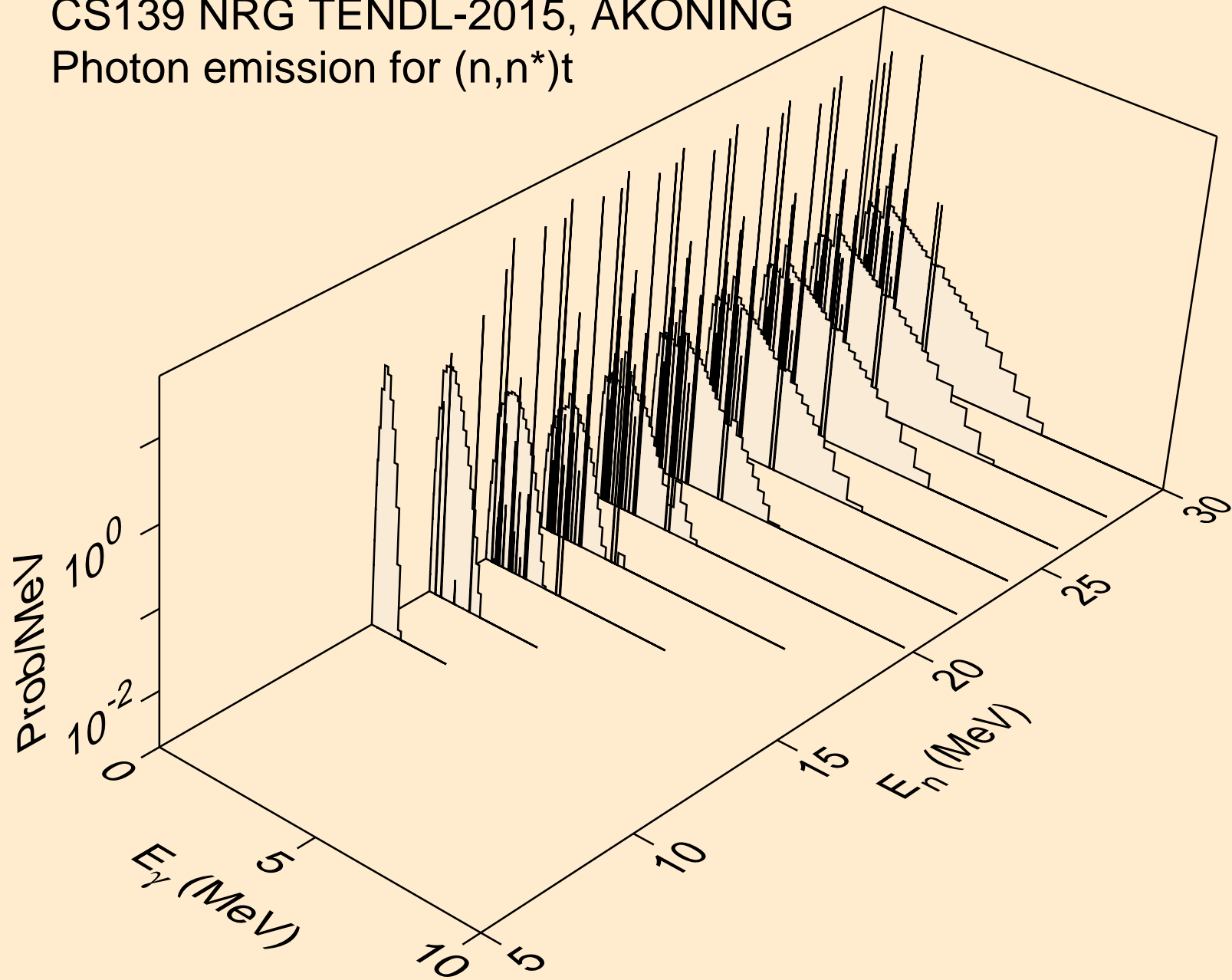
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)p



CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d

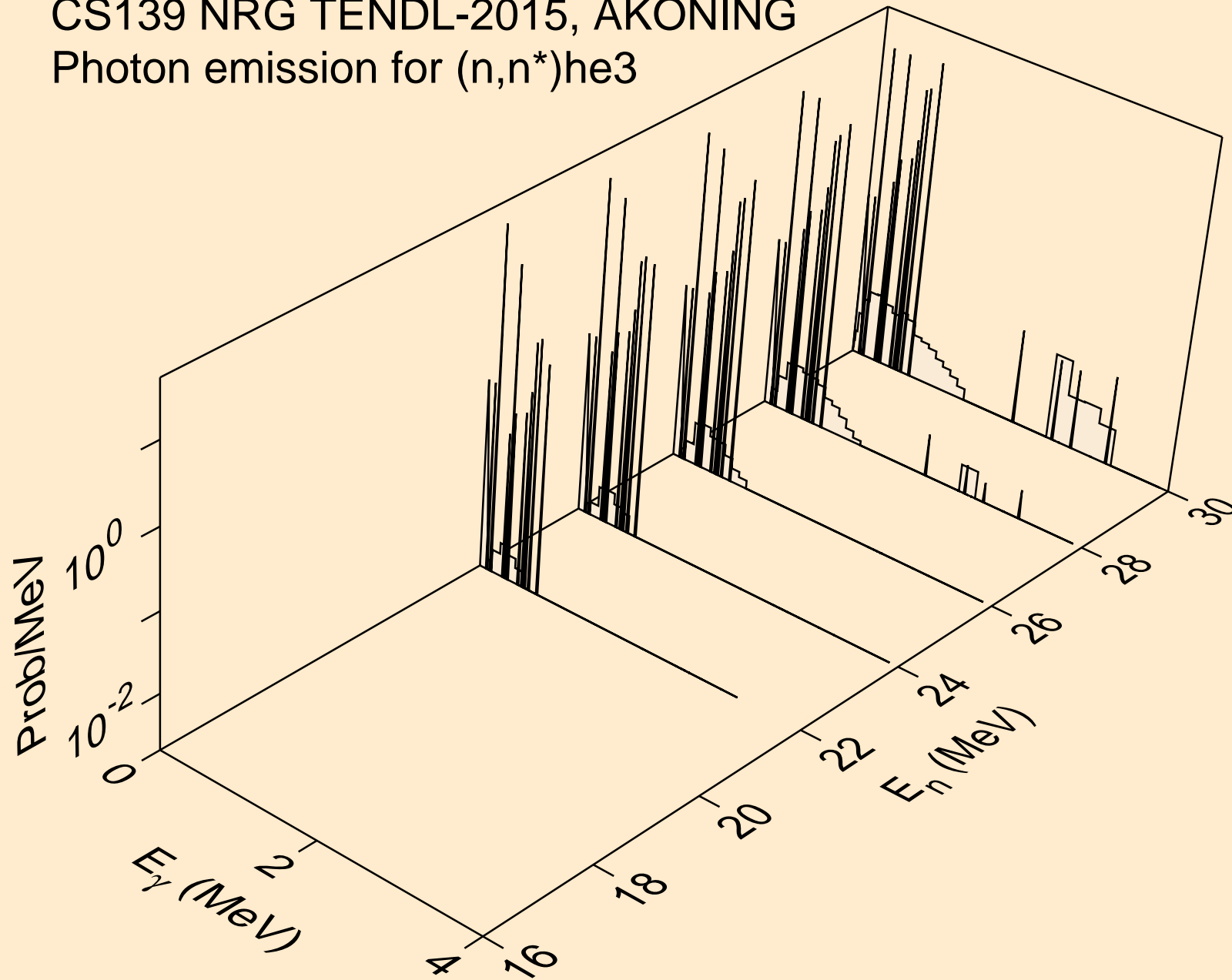


CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t

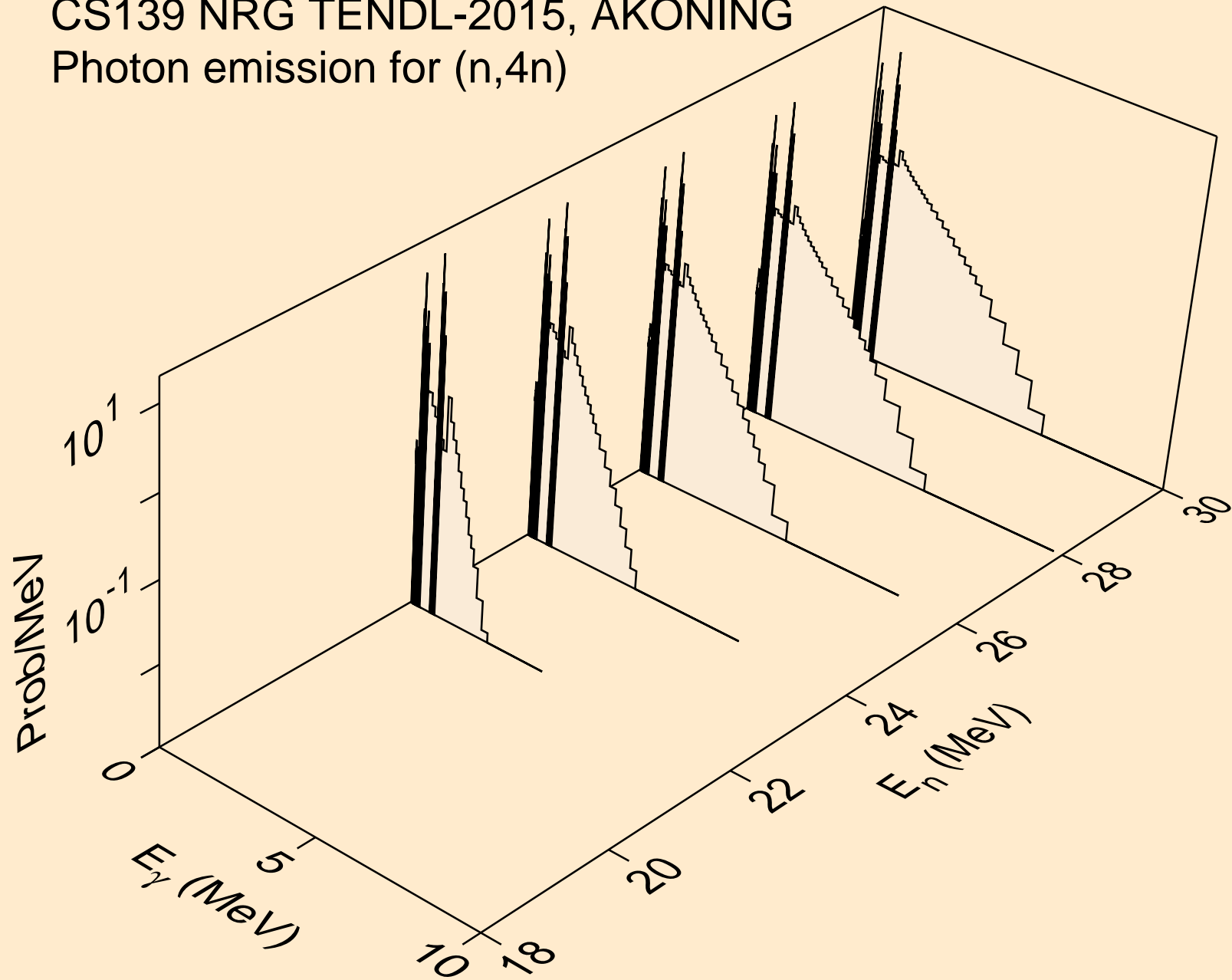


CS139 NRG TENDL-2015, AKONING

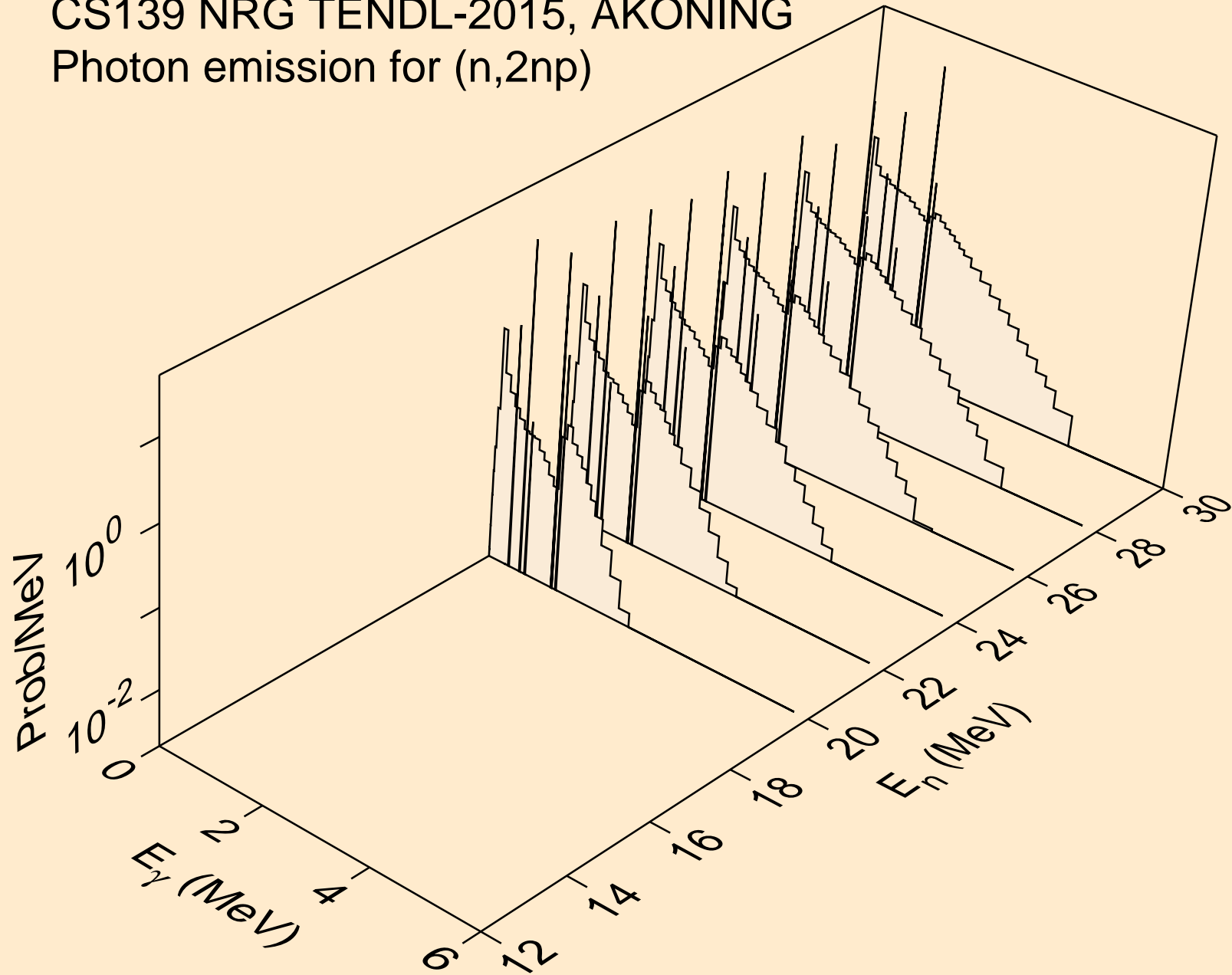
Photon emission for (n,n\*)he3



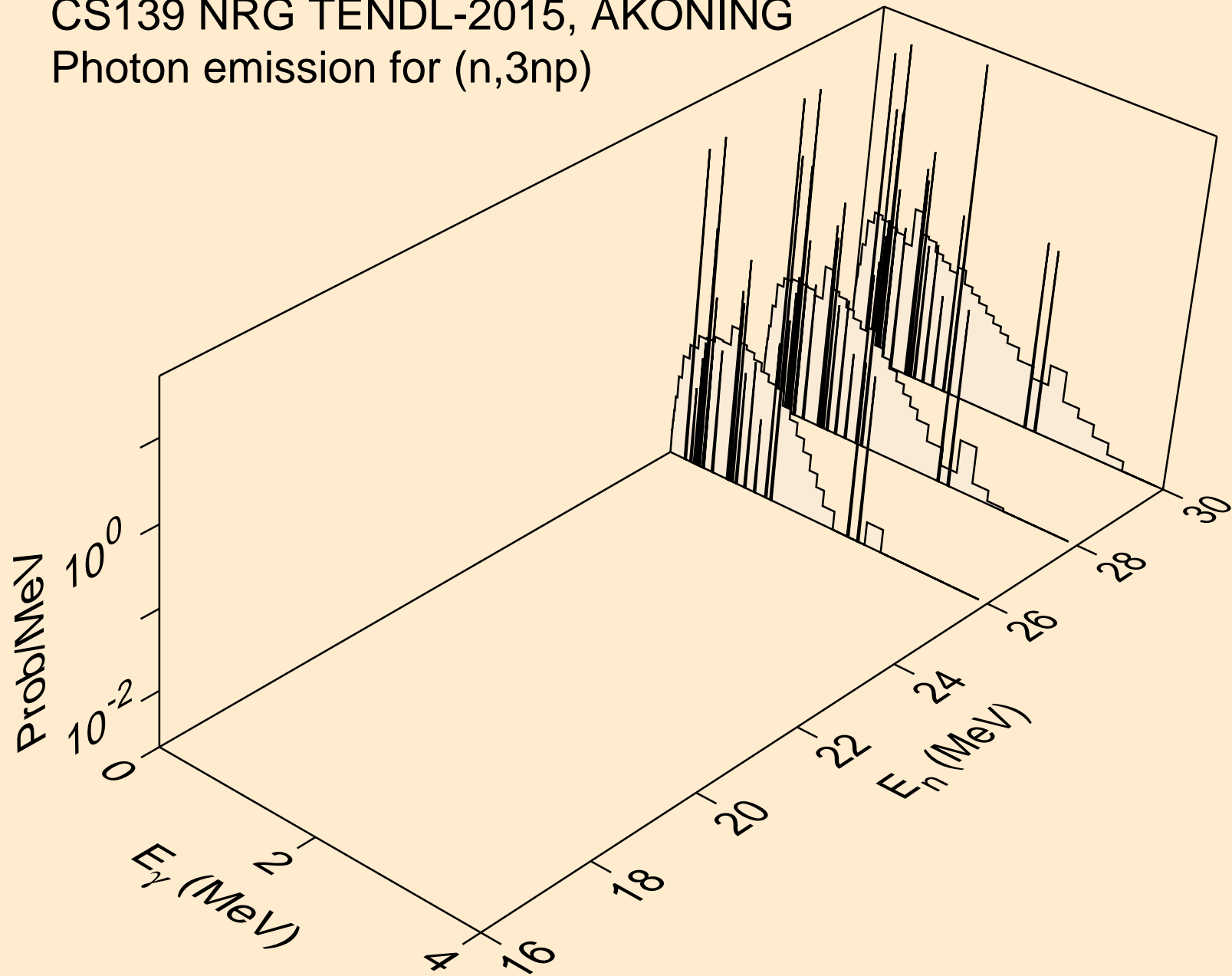
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,4n)



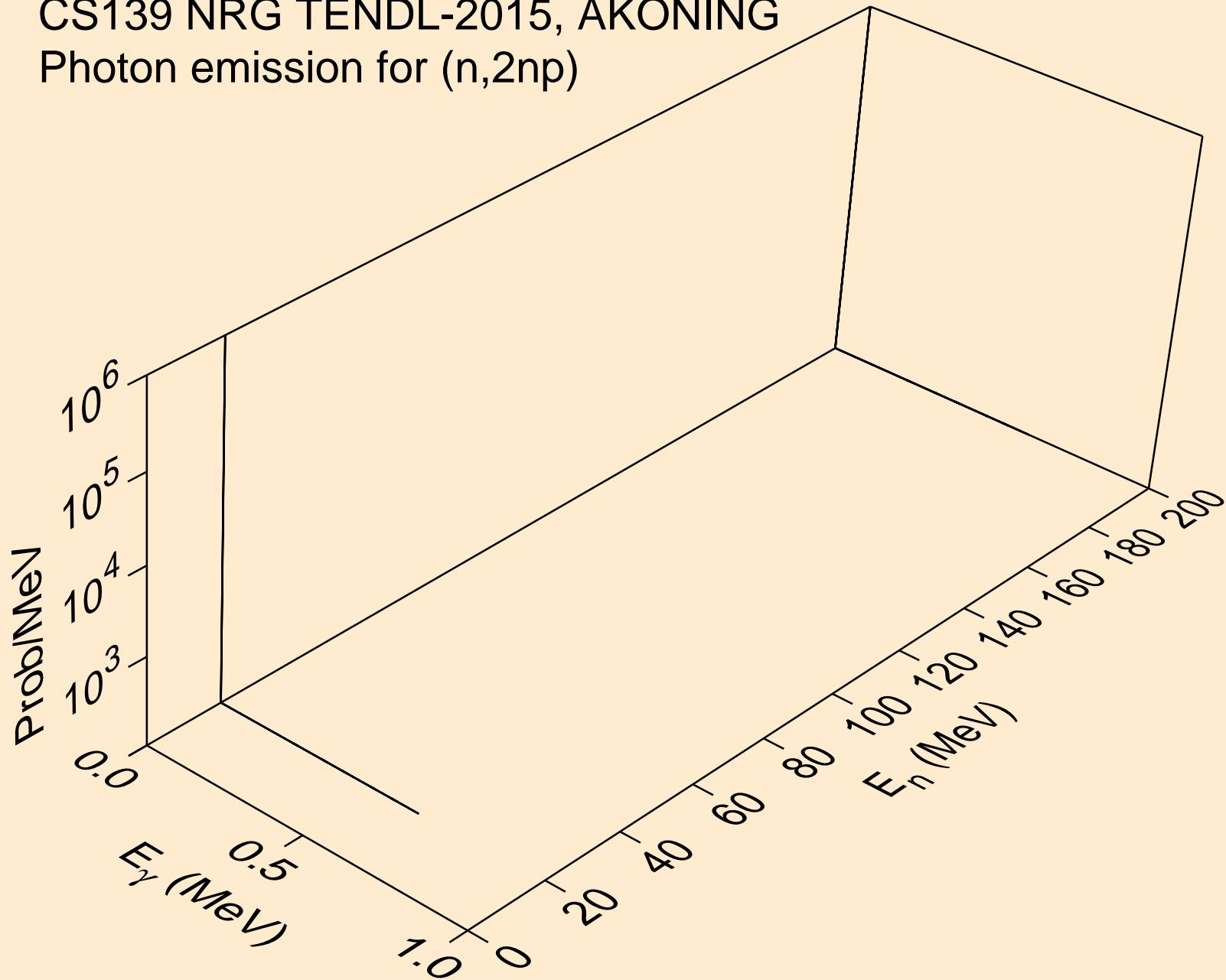
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,3np)

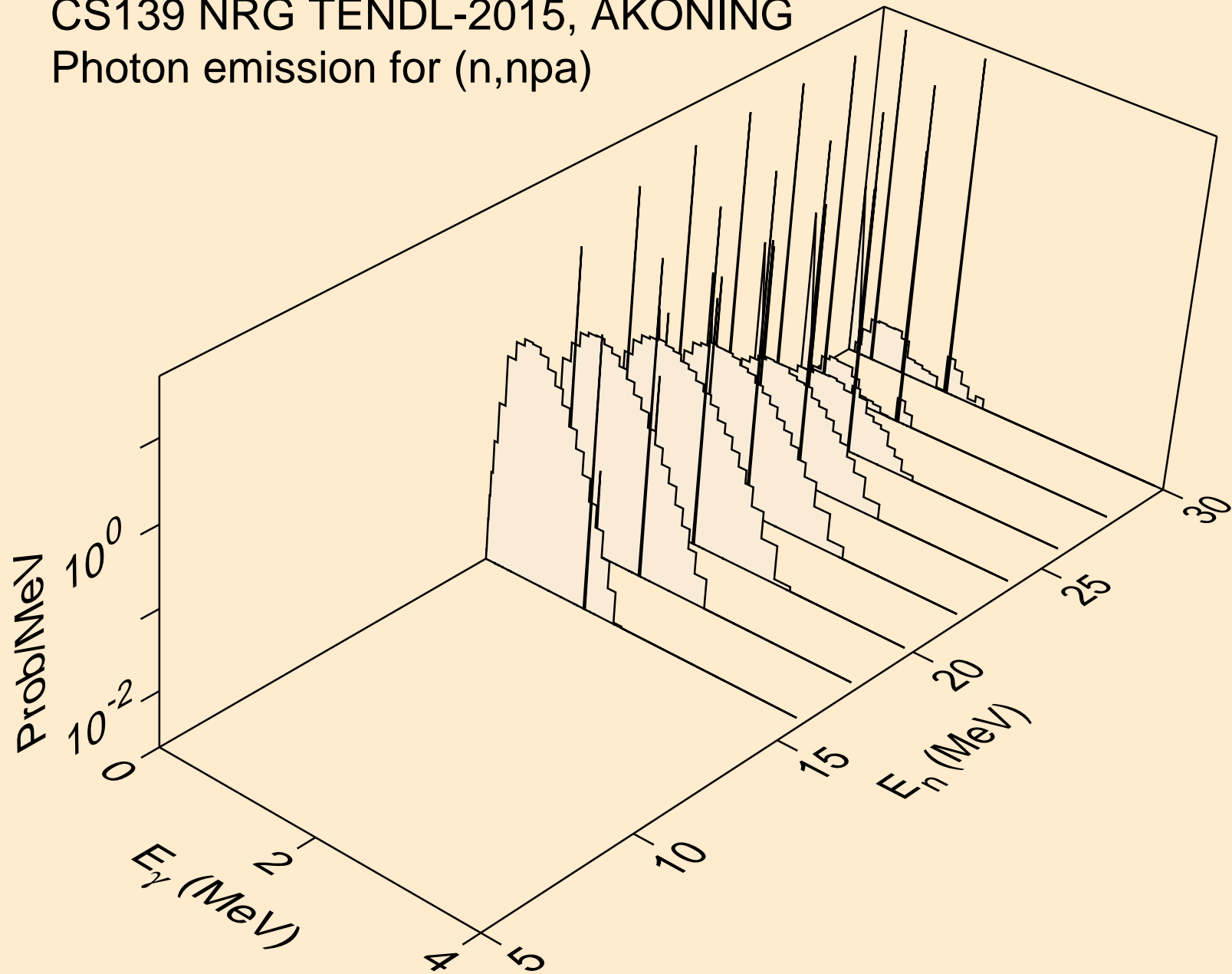


CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)

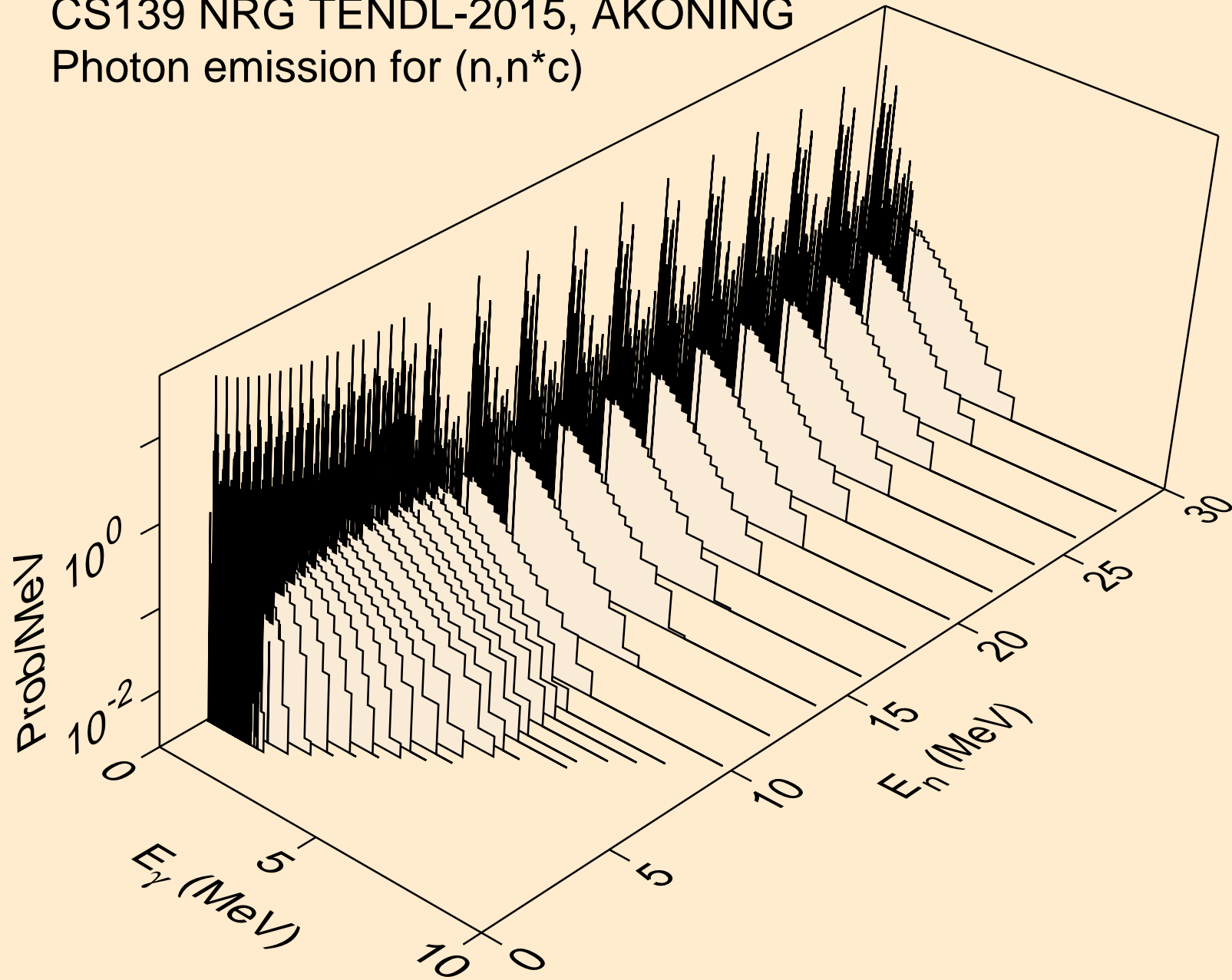




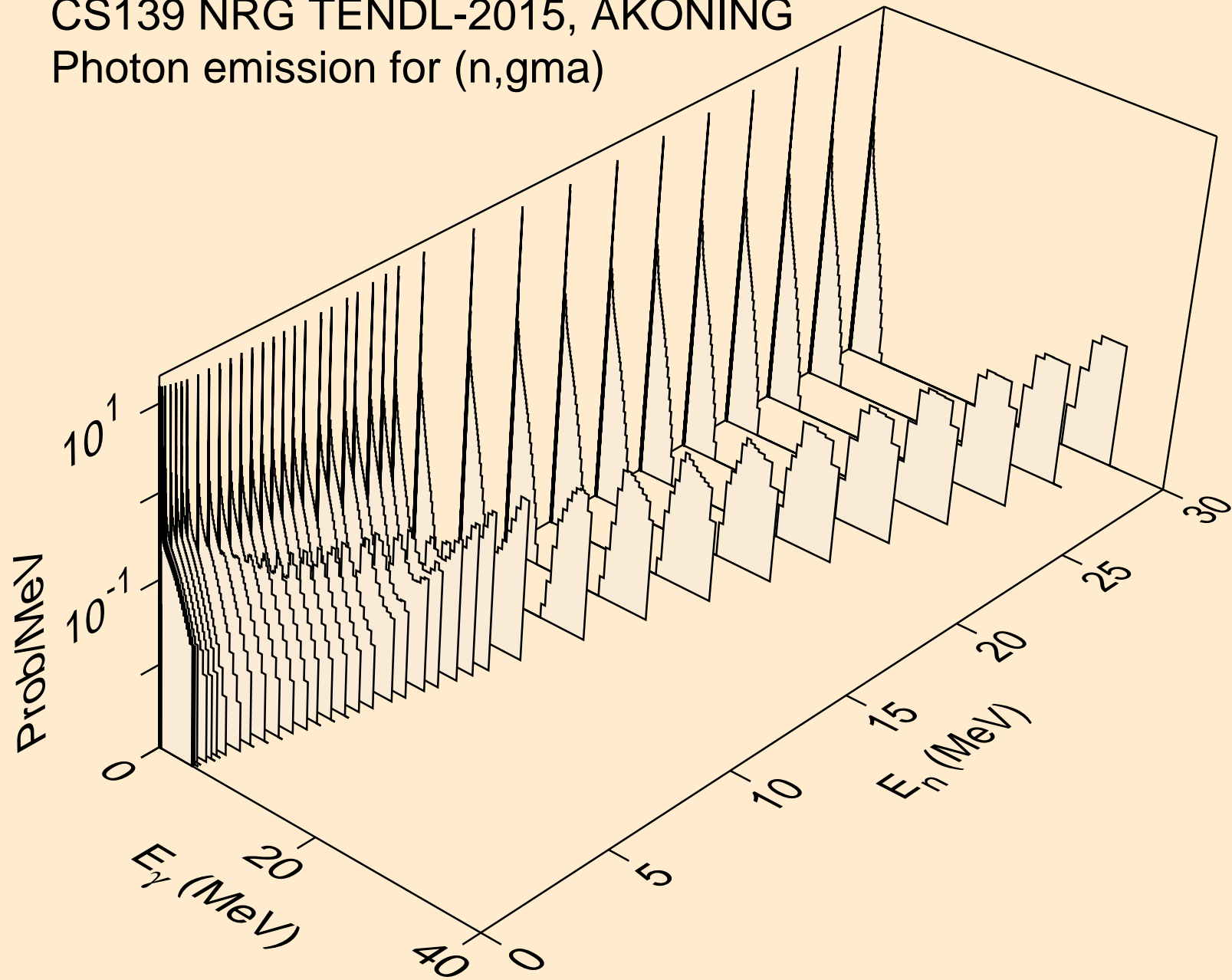
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,npa)



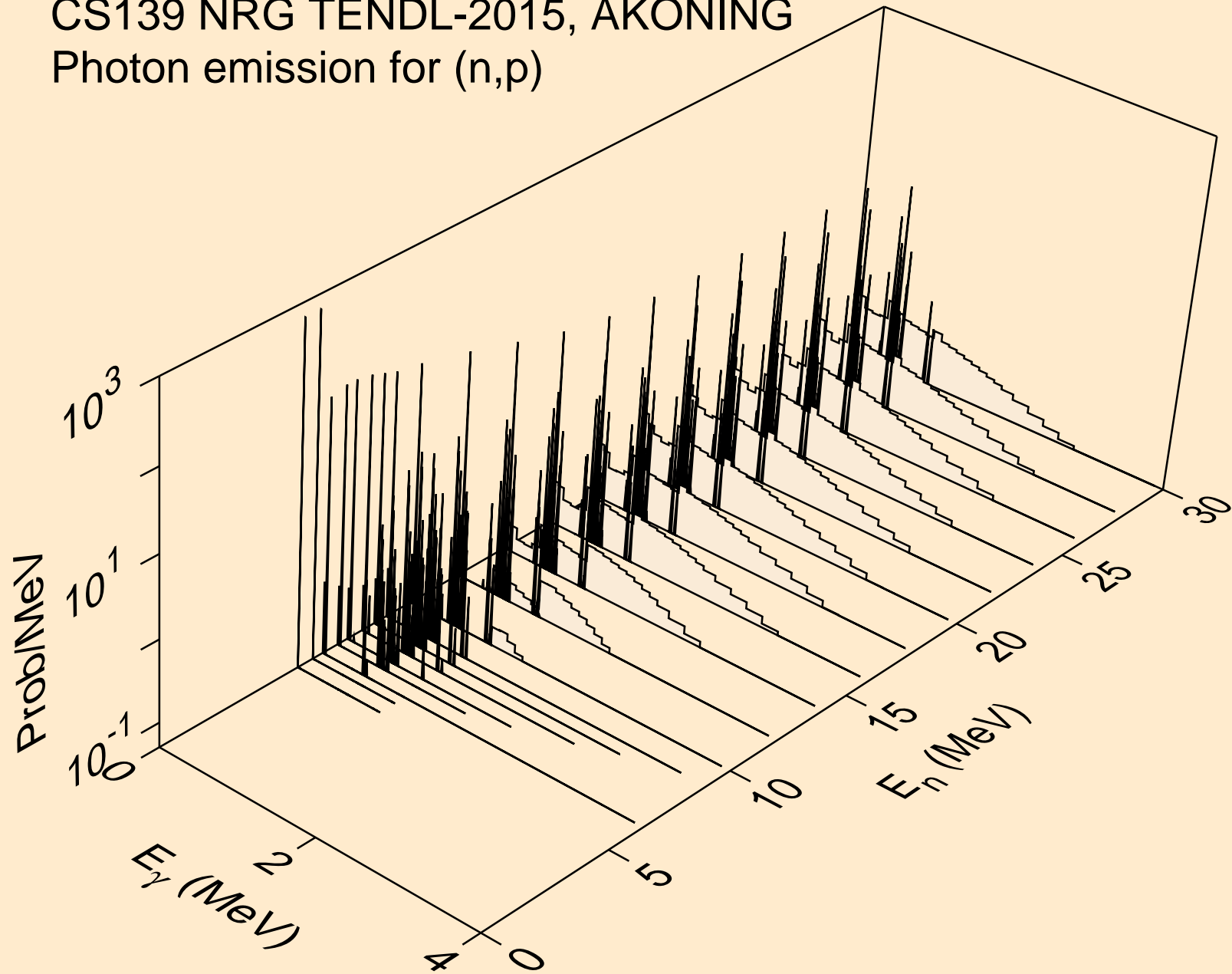
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*c)



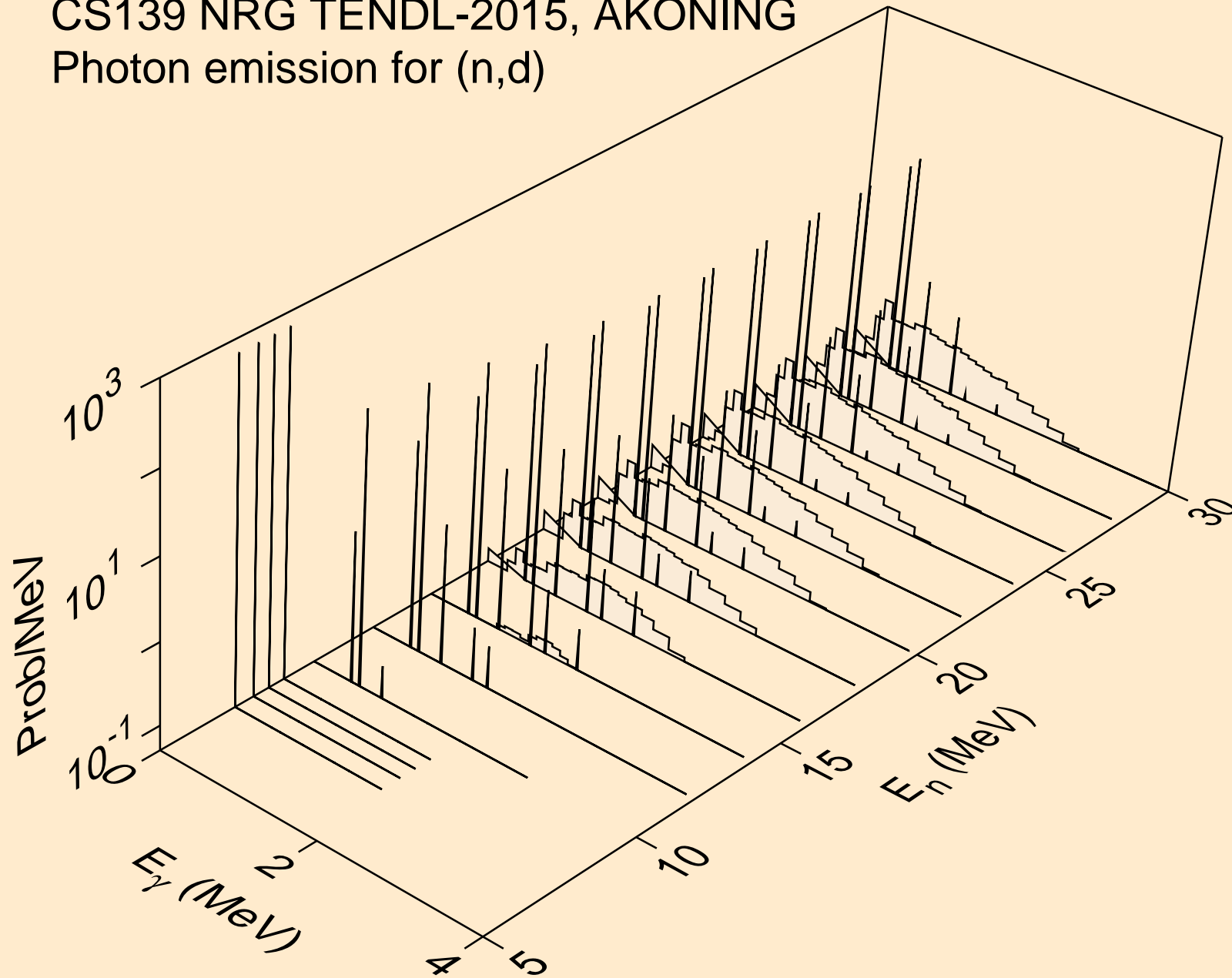
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,gma)



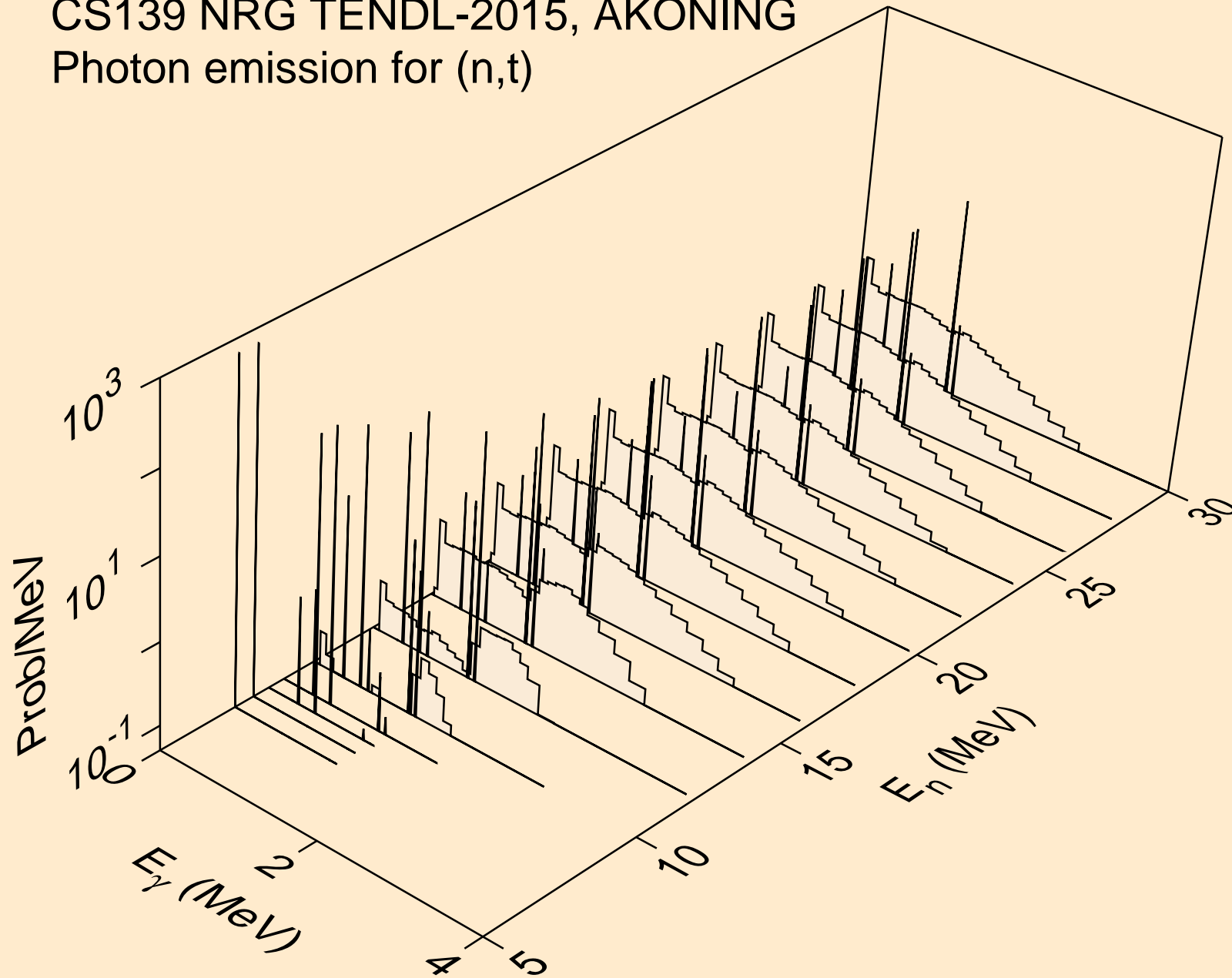
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,p)



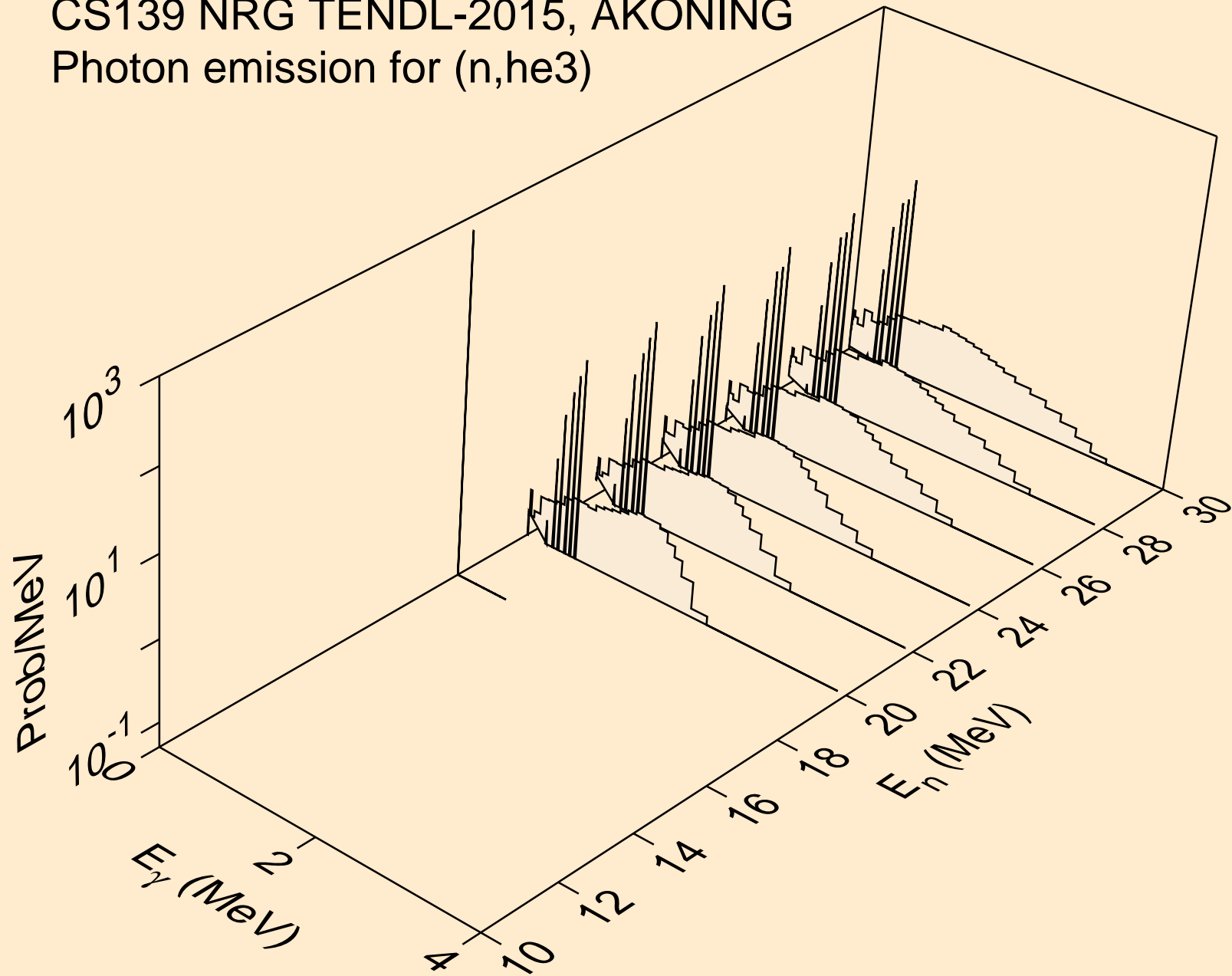
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,d)



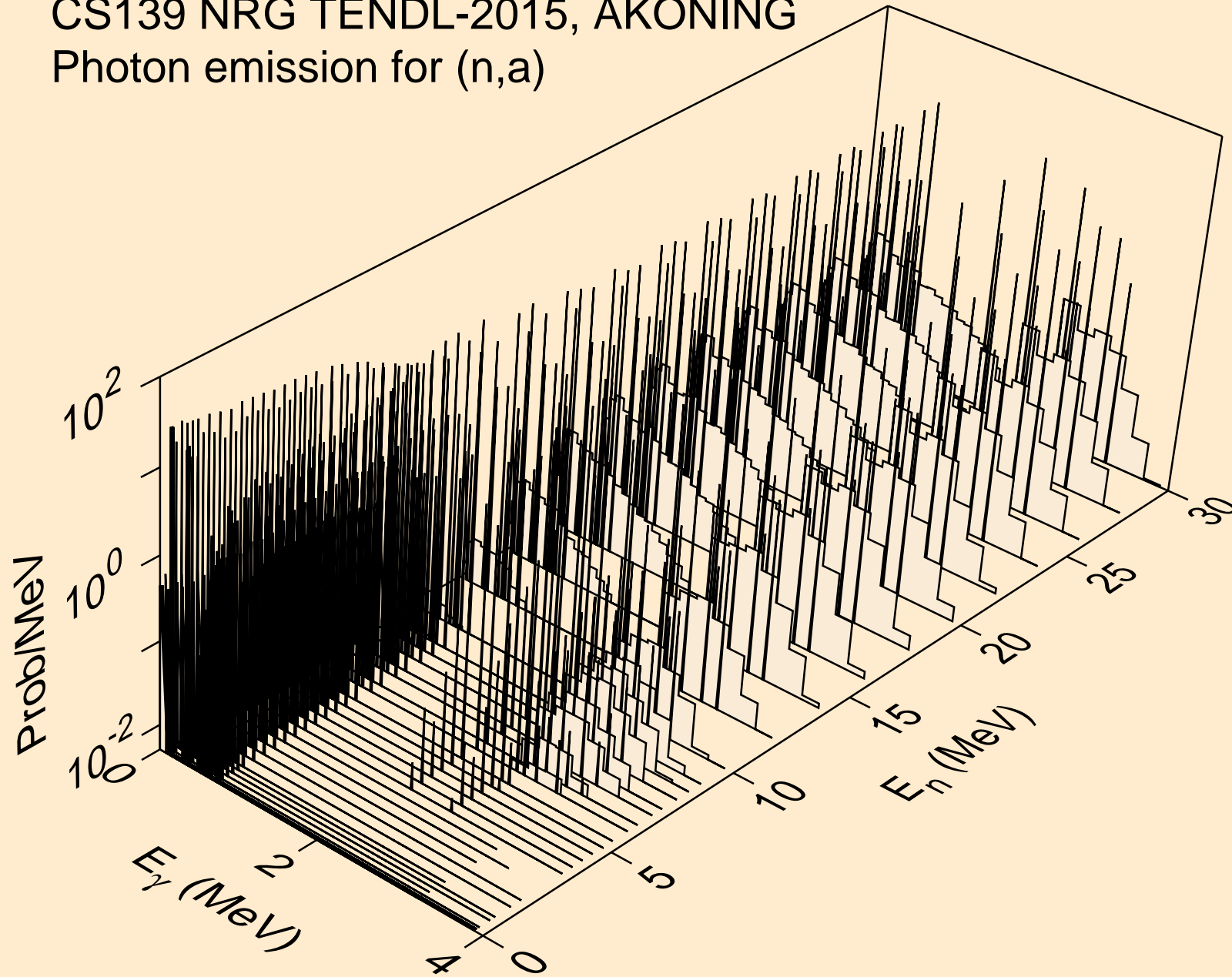
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,t)



CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,he3)

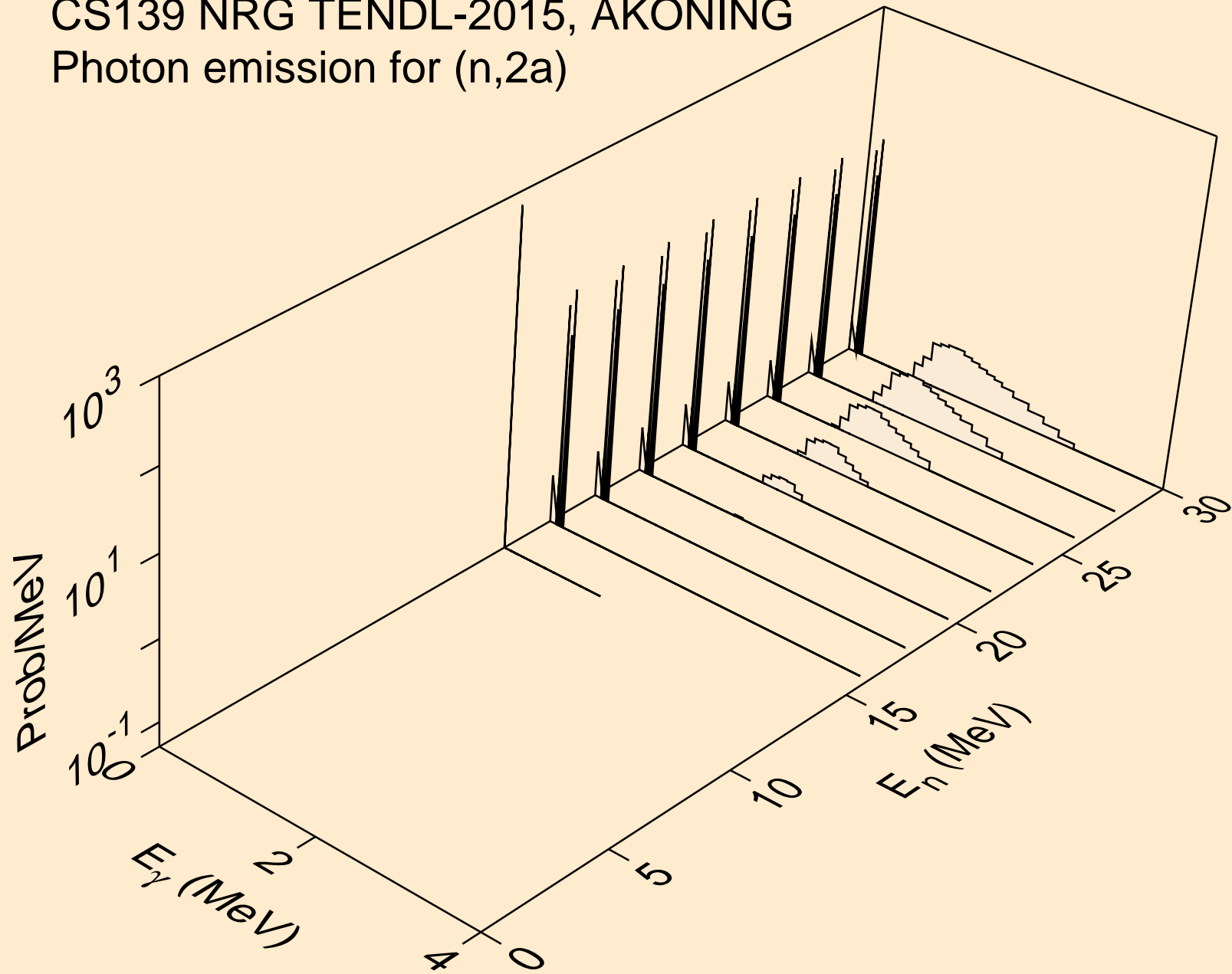


CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,a)

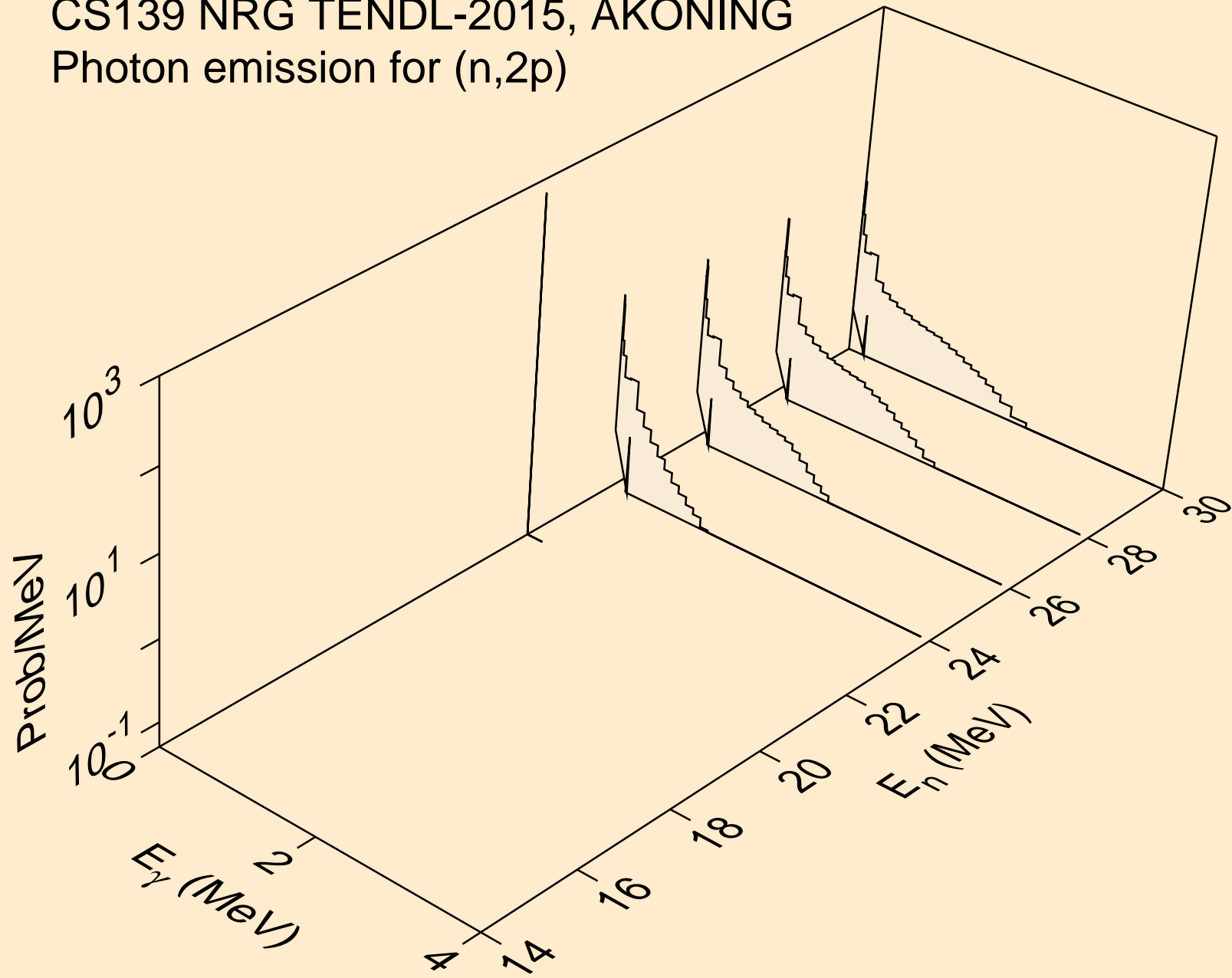




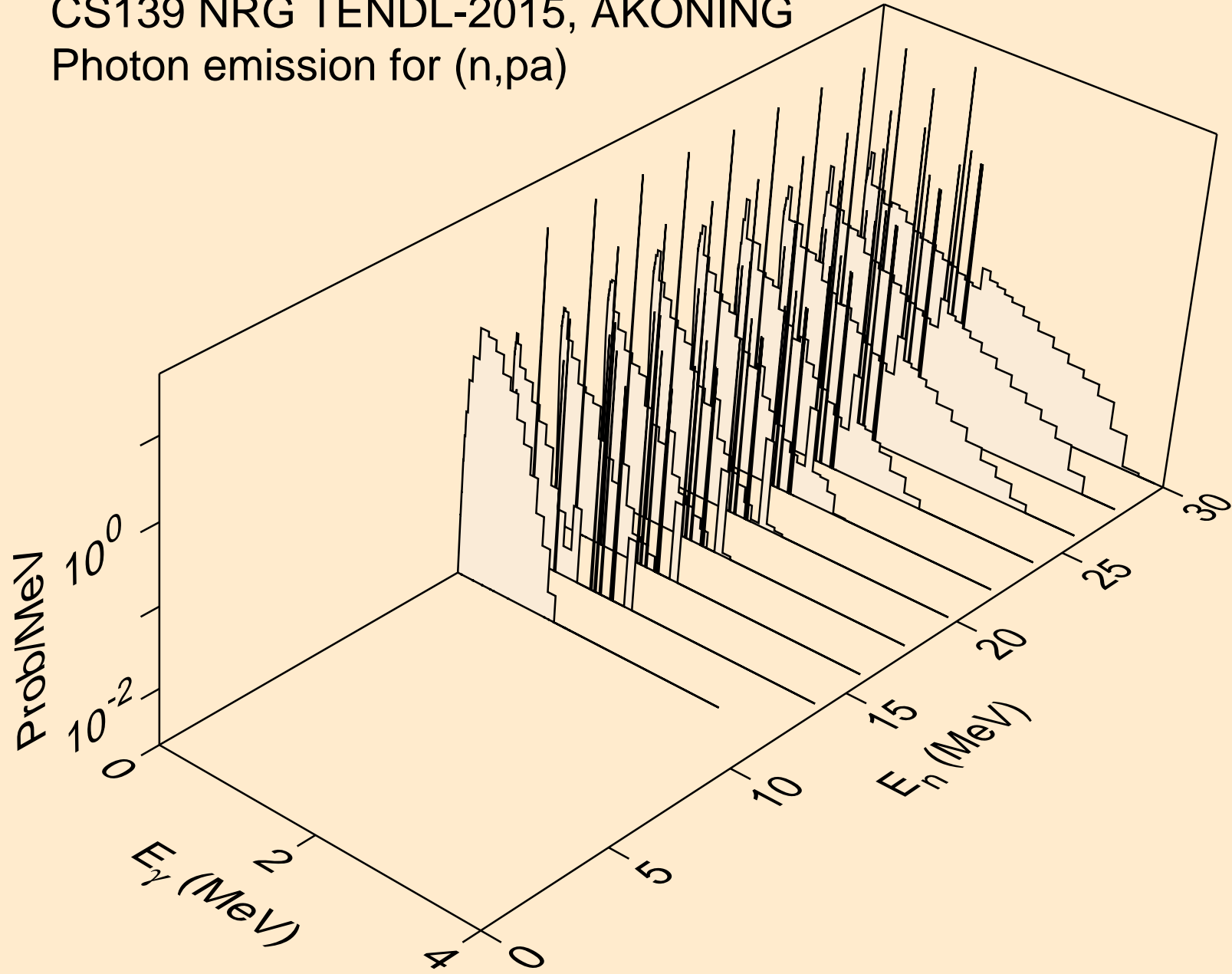
CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,2a)



CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,2p)

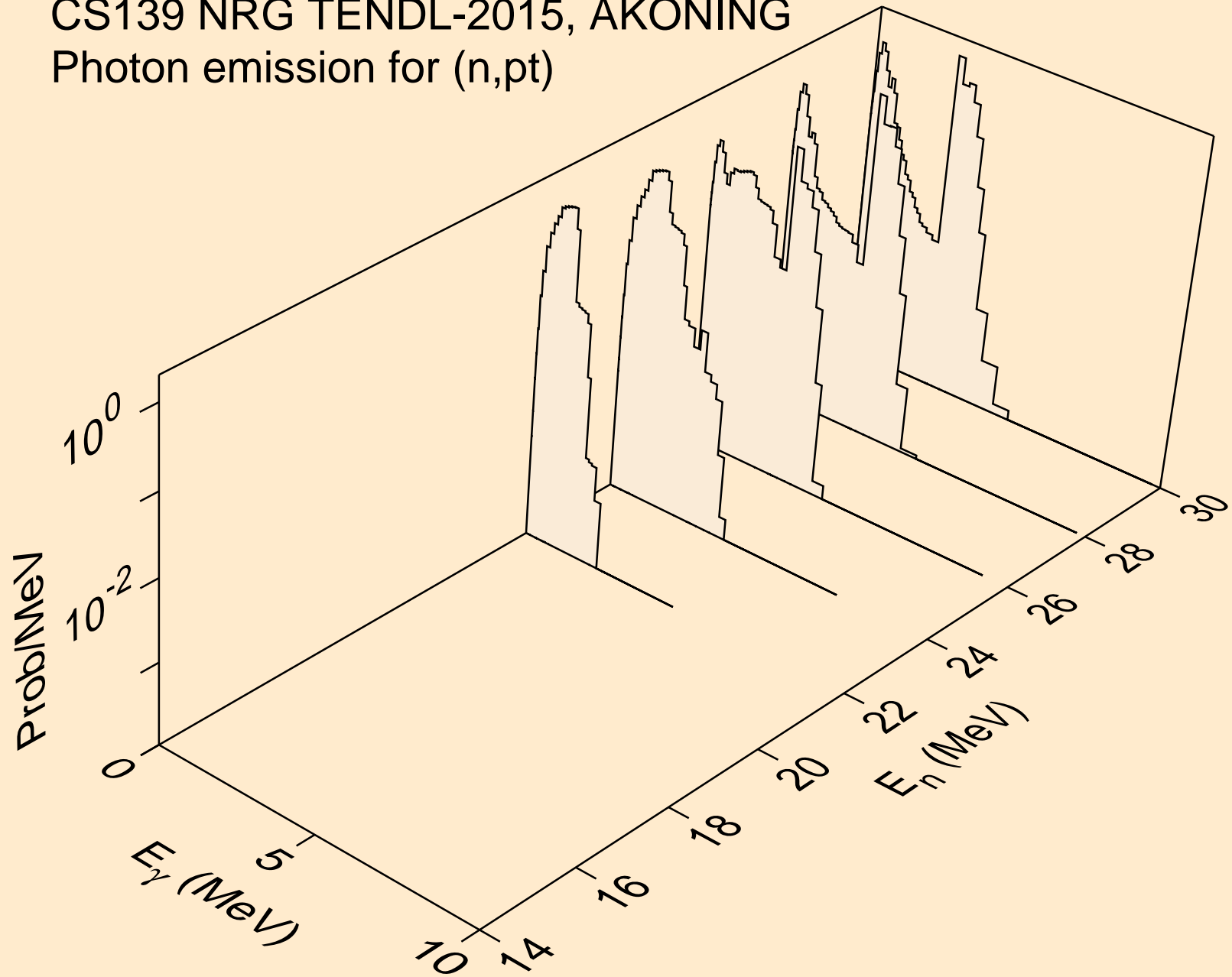


CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,p)

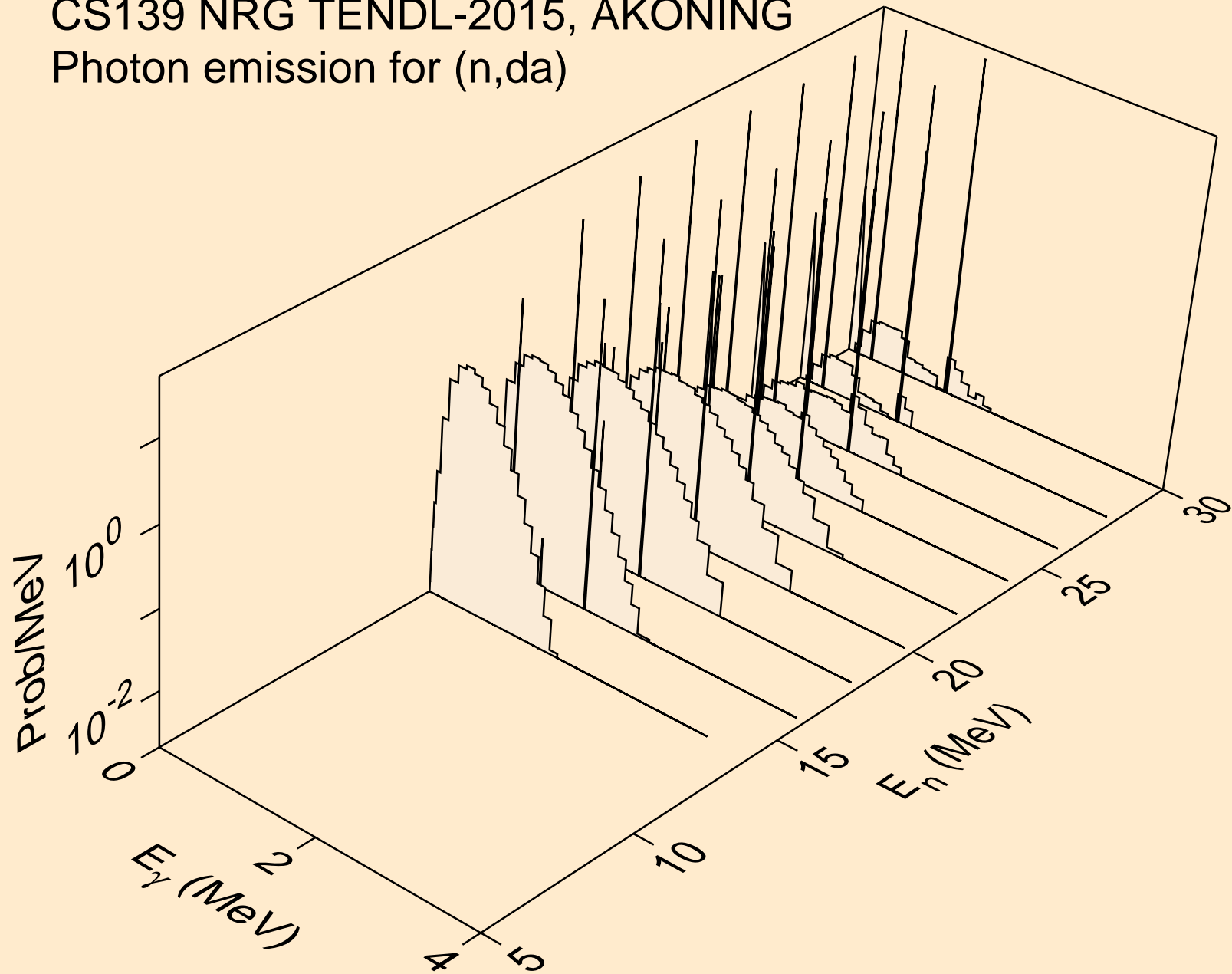


# CS139 NRG TENDL-2015, AKONING

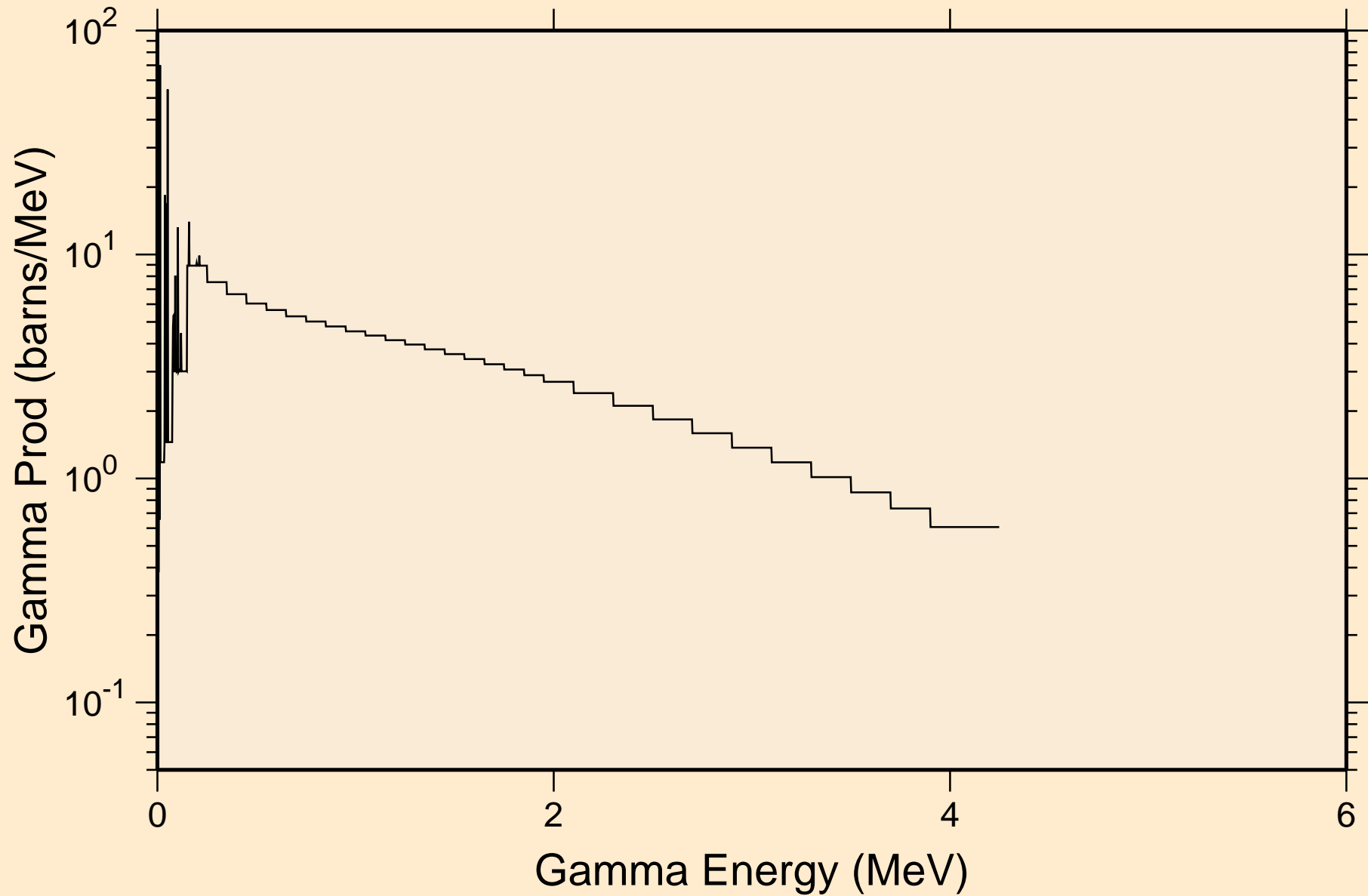
Photon emission for (n,pt)



CS139 NRG TENDL-2015, AKONING  
Photon emission for (n,da)

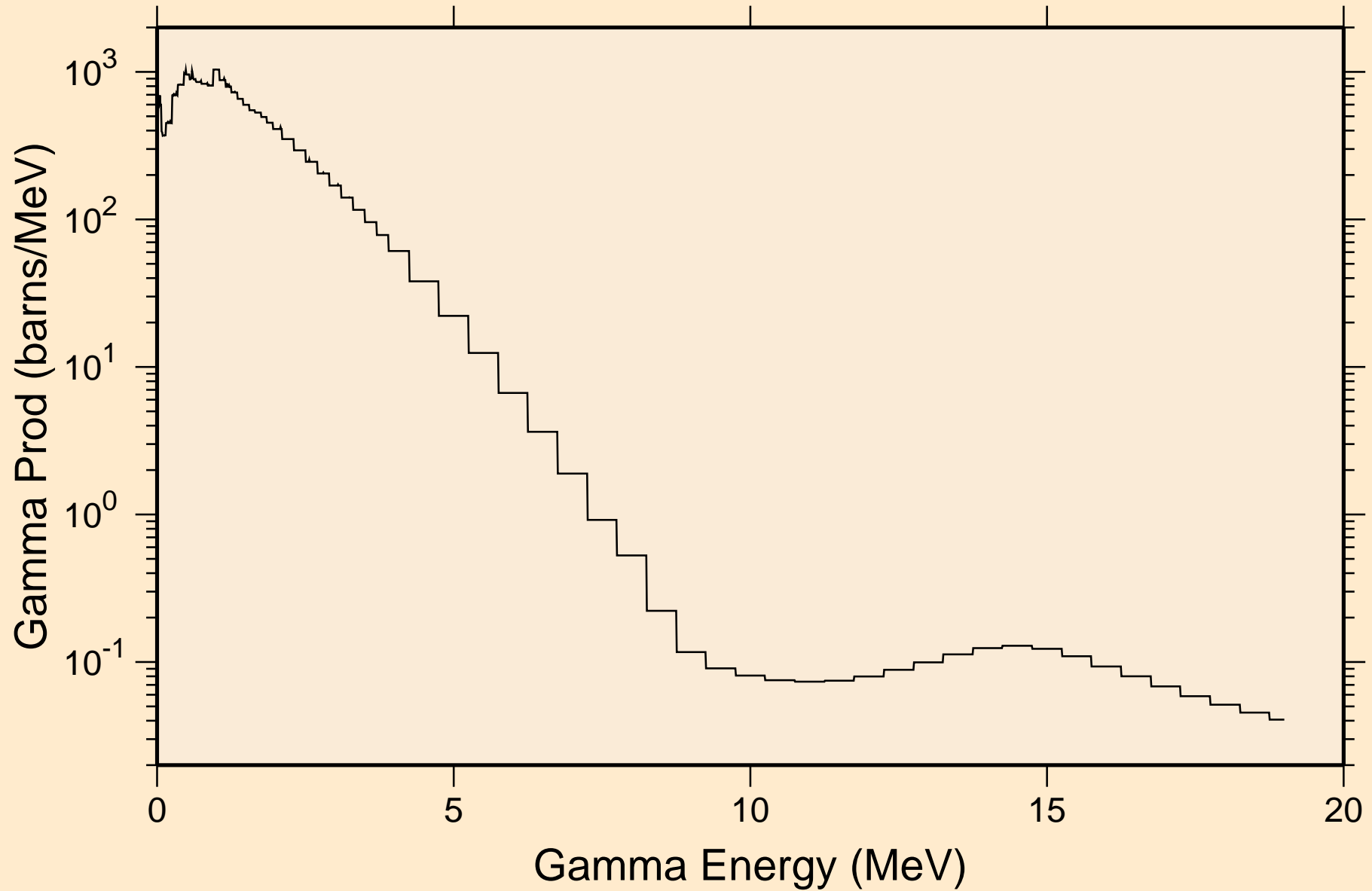


CS139 NRG TENDL-2015, AKONING  
thermal capture photon spectrum



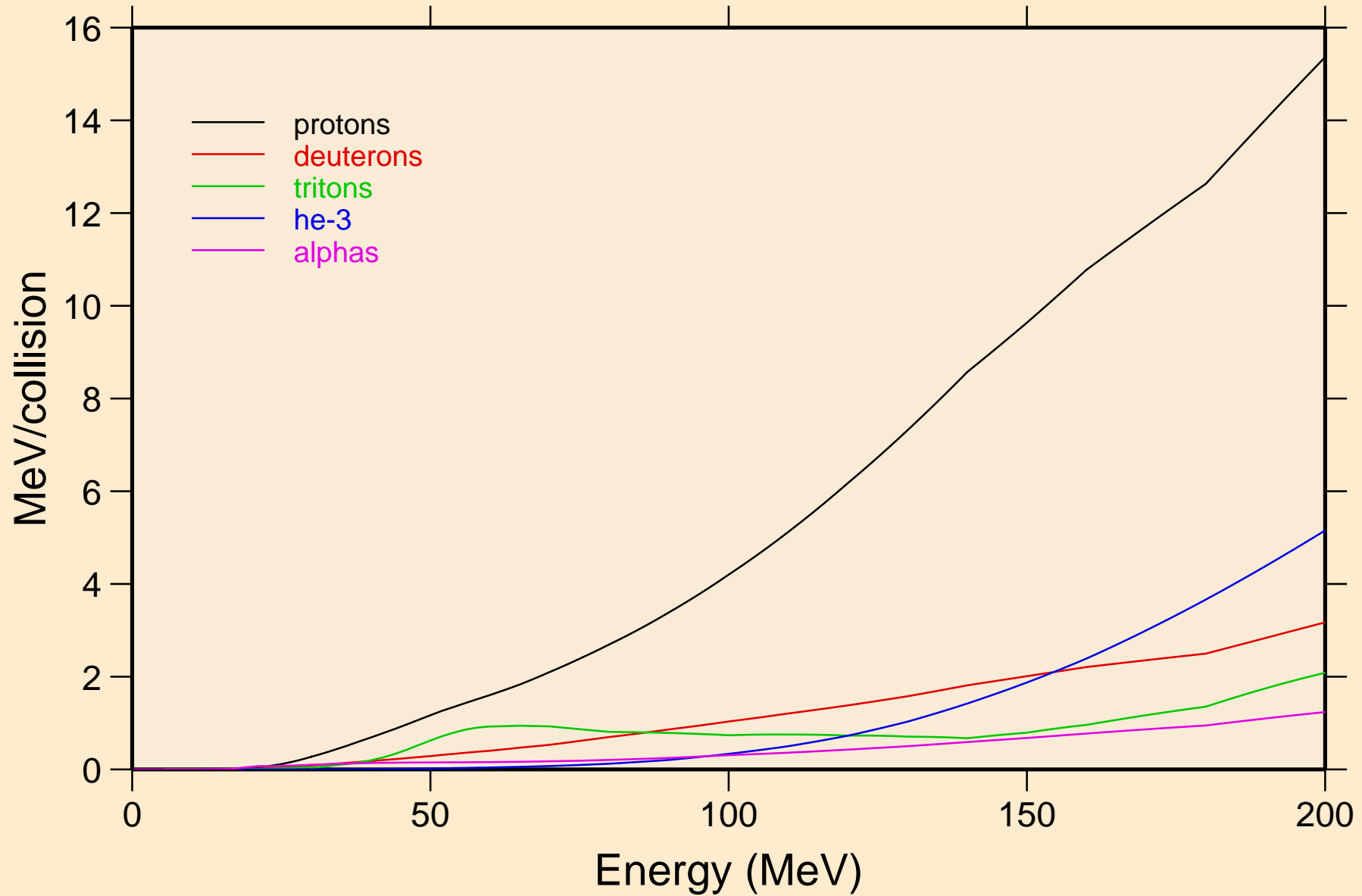
# CS139 NRG TENDL-2015, AKONING

## 14 MeV photon spectrum



# CS139 NRG TENDL-2015, AKONING

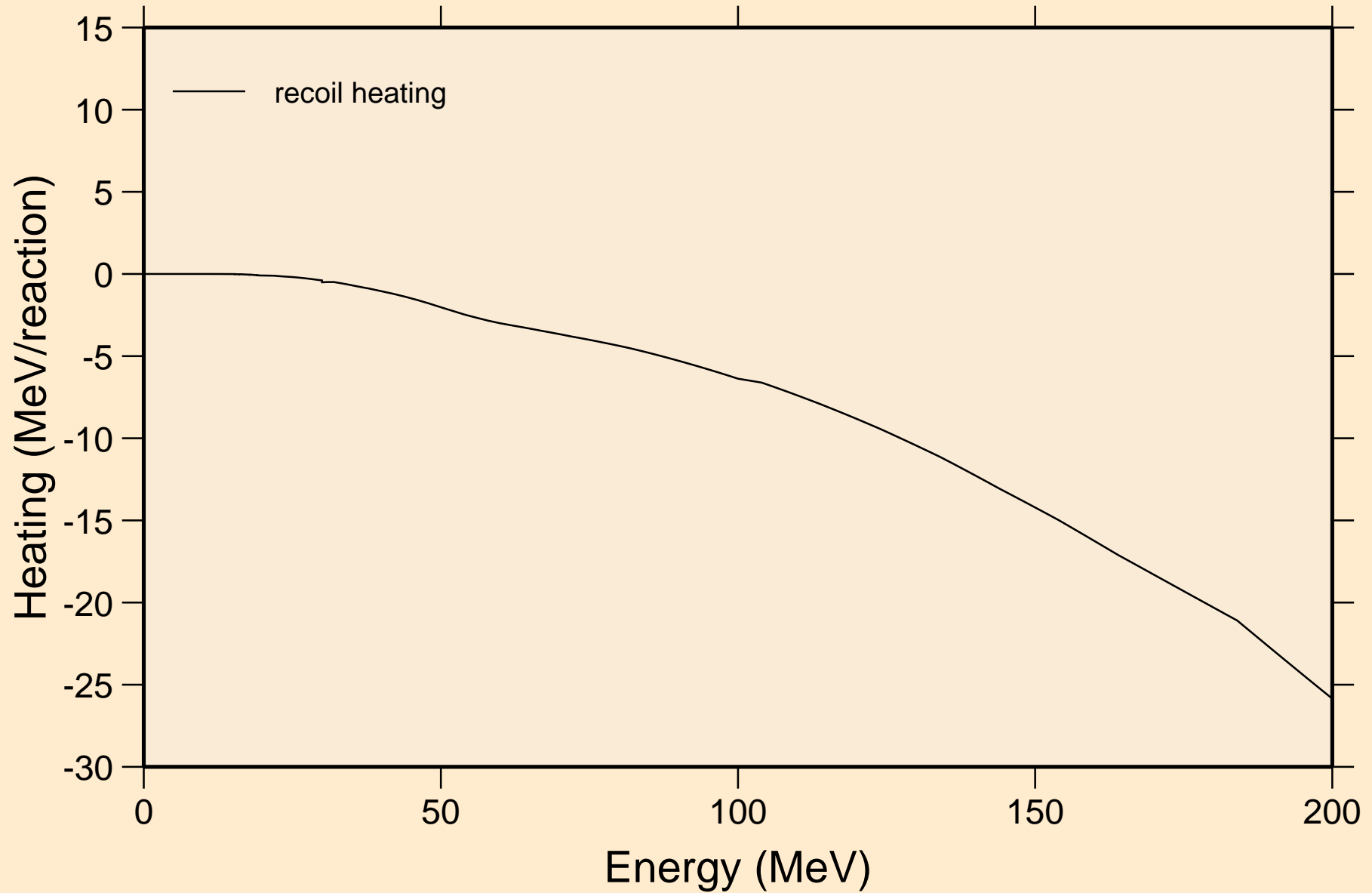
## Particle heating contributions





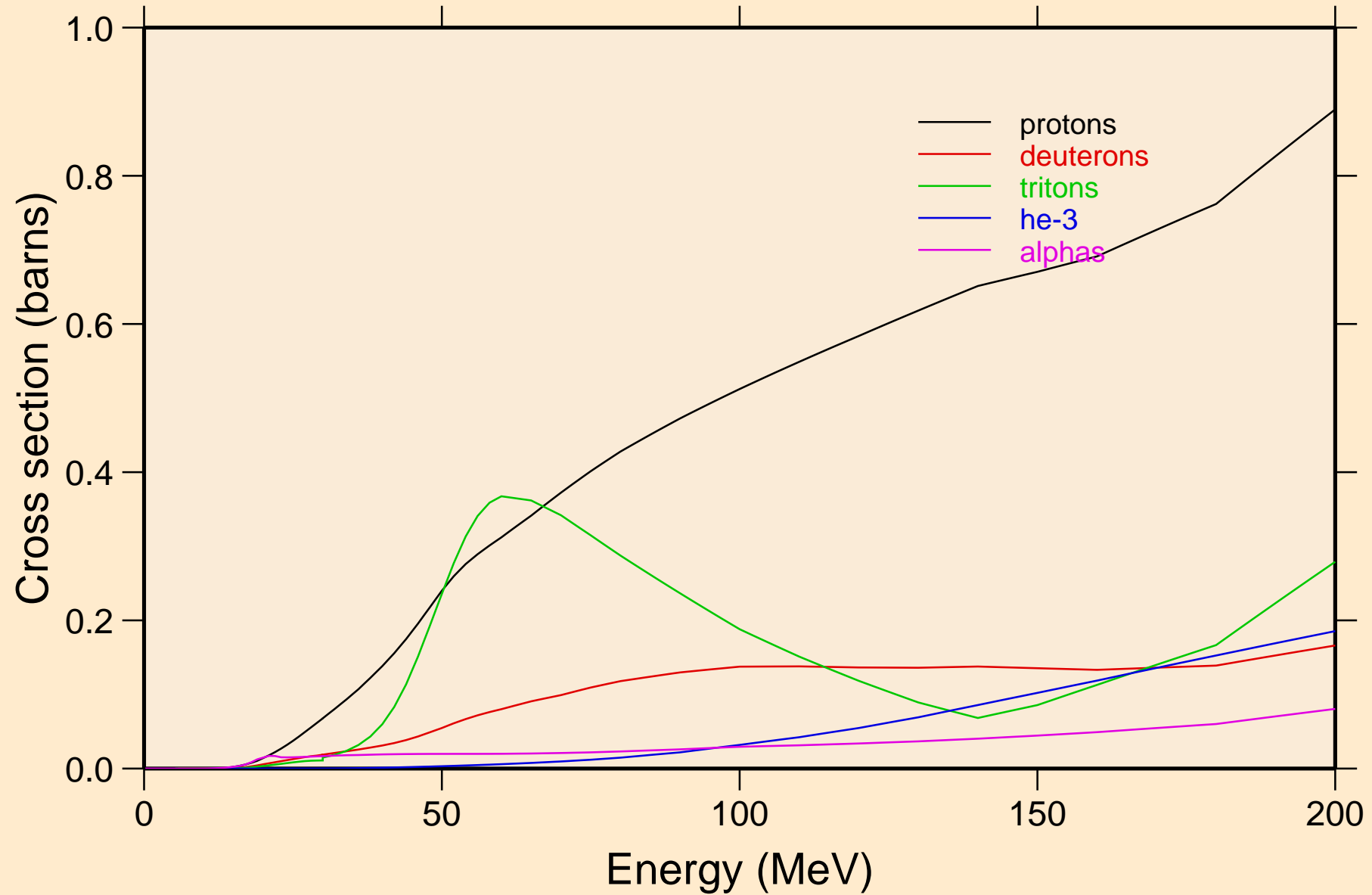
# CS139 NRG TENDL-2015, AKONING

## Recoil Heating

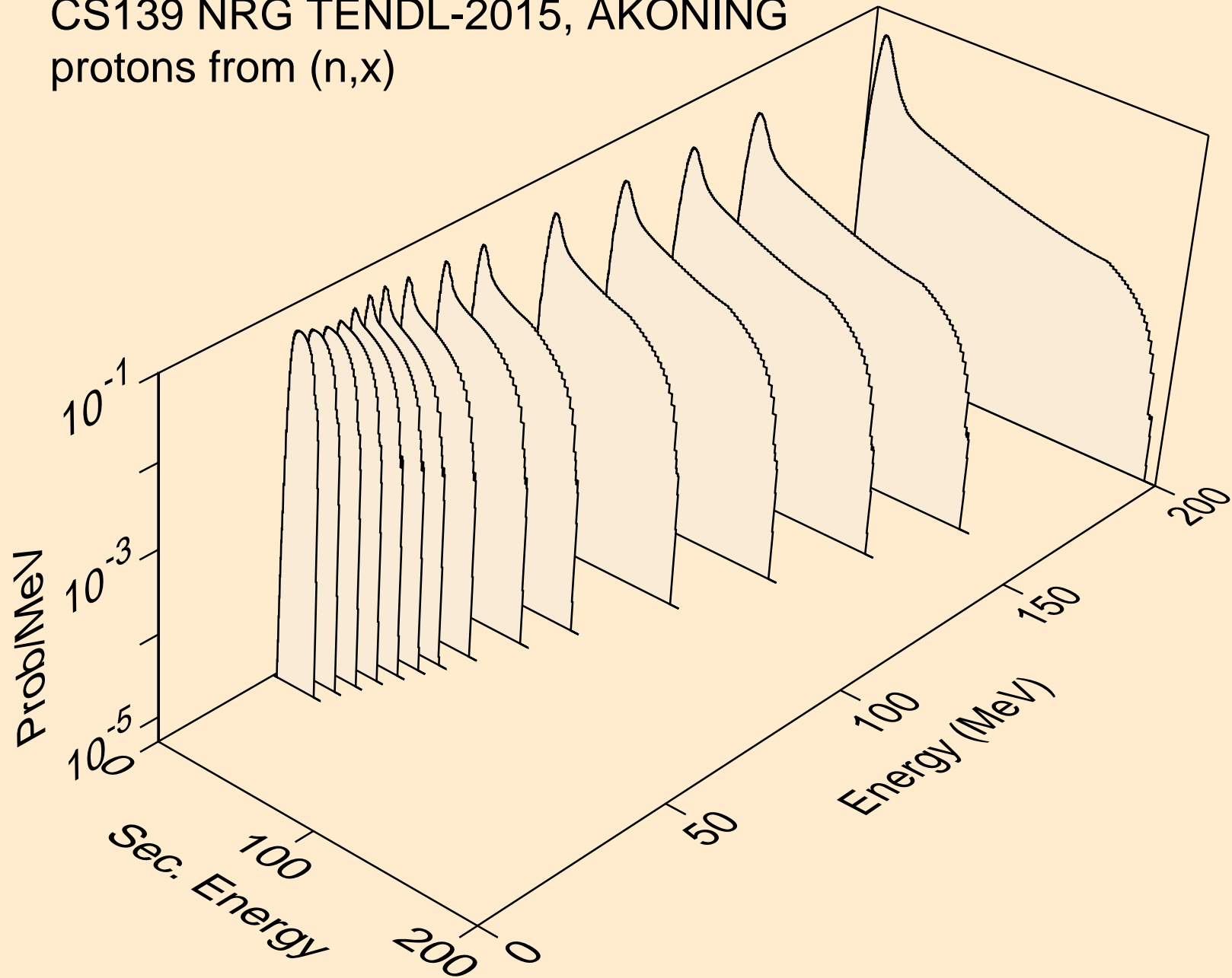


# CS139 NRG TENDL-2015, AKONING

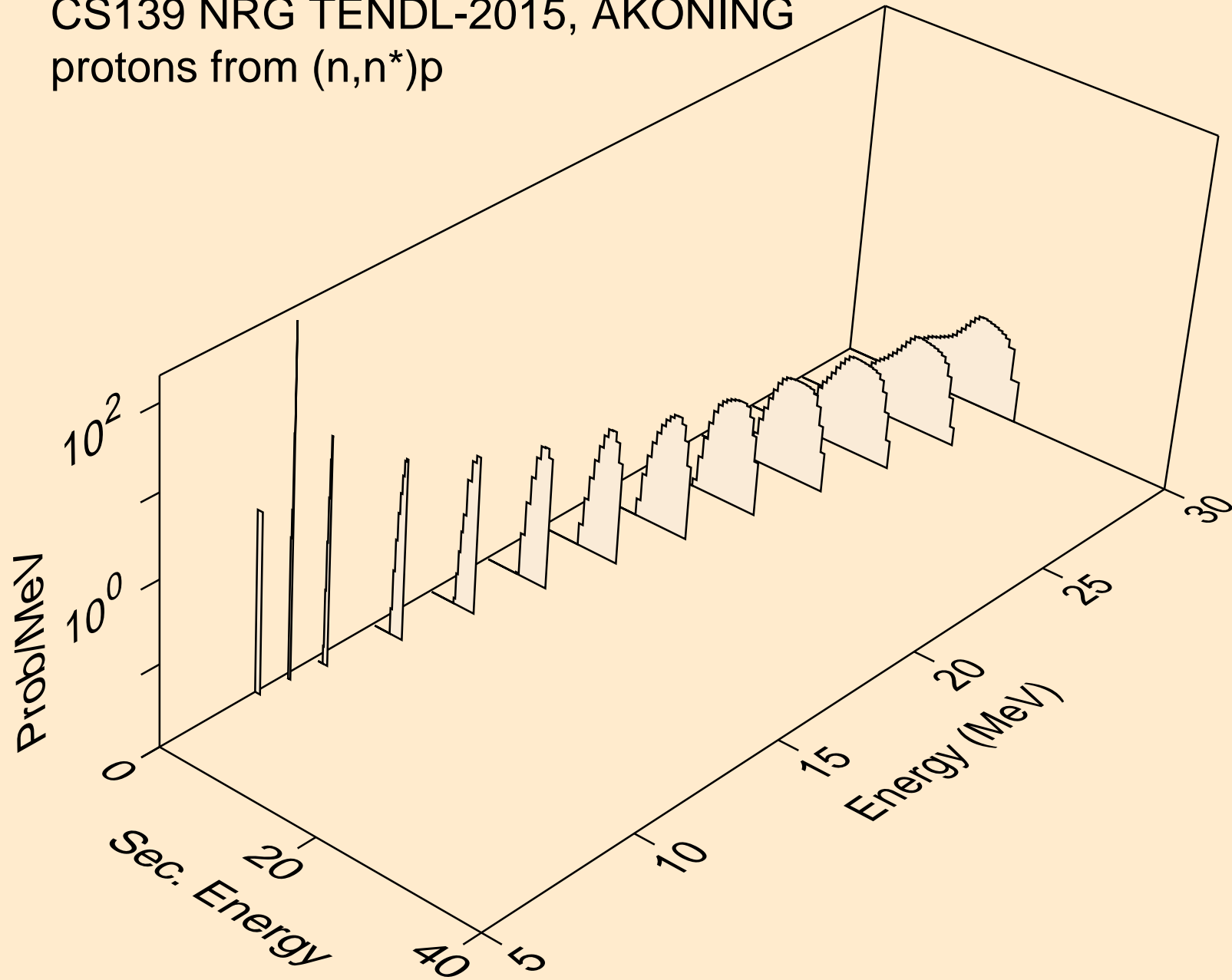
## Particle production cross sections



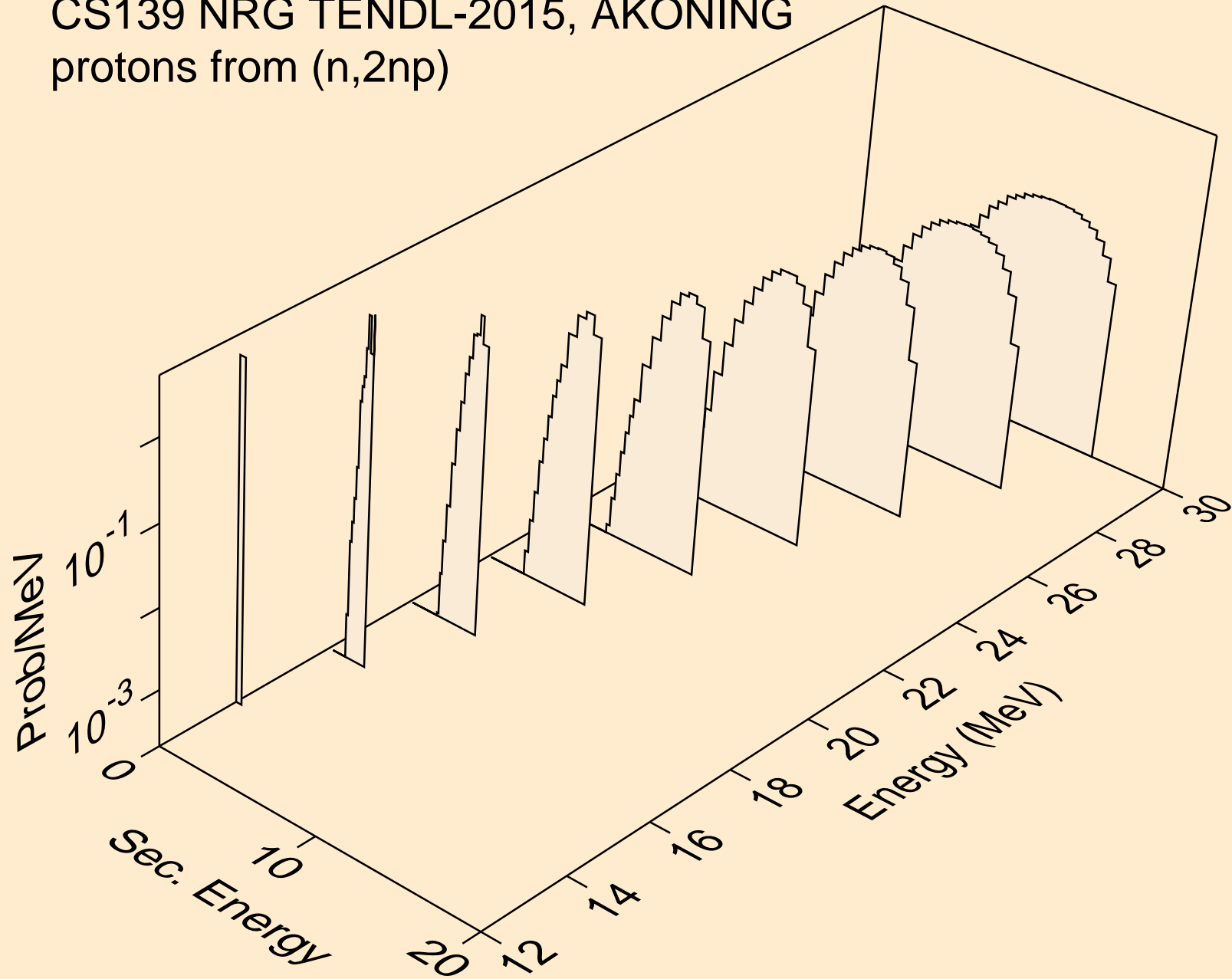
CS139 NRG TENDL-2015, AKONING  
protons from (n,x)



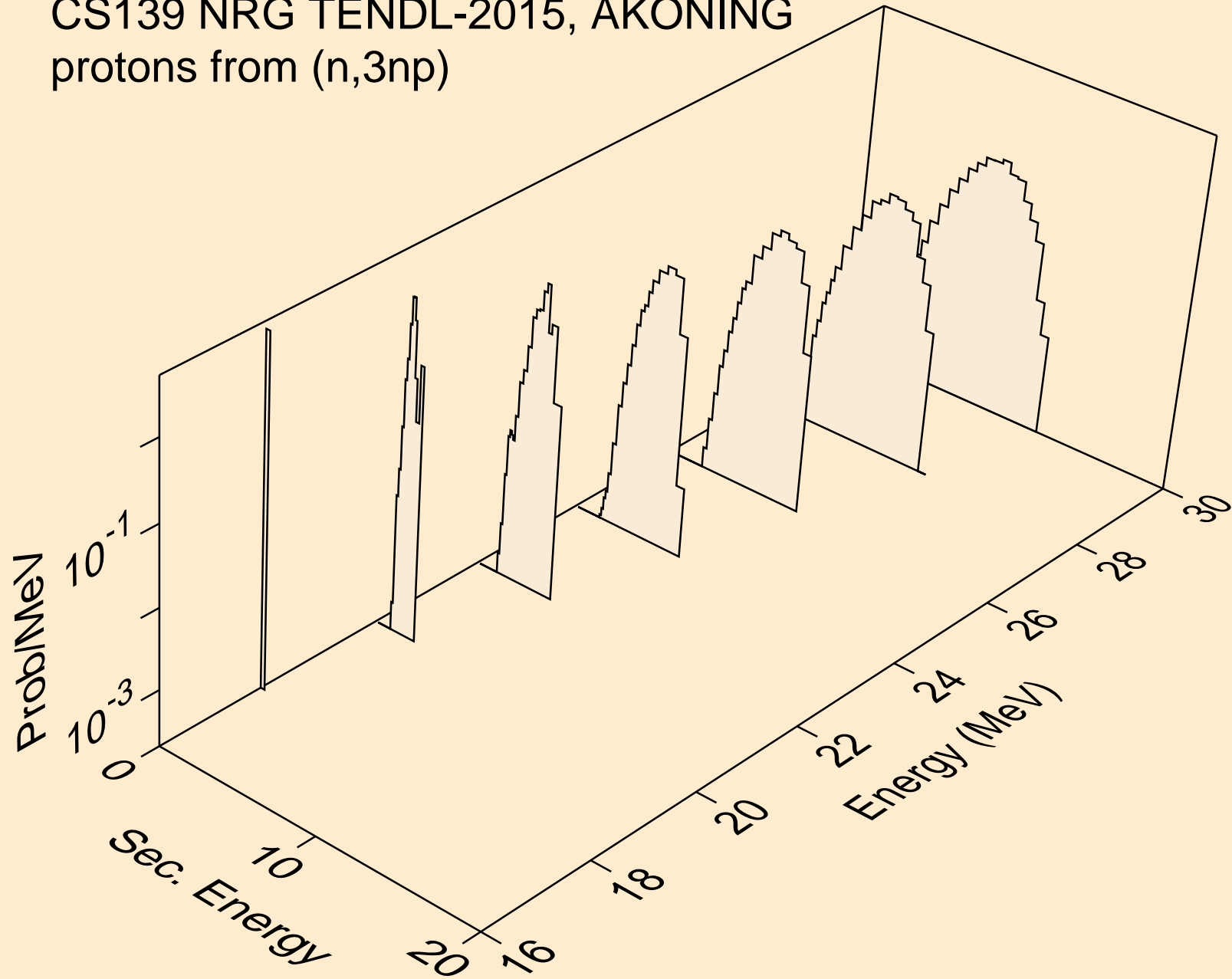
CS139 NRG TENDL-2015, AKONING  
protons from (n,n\*)p



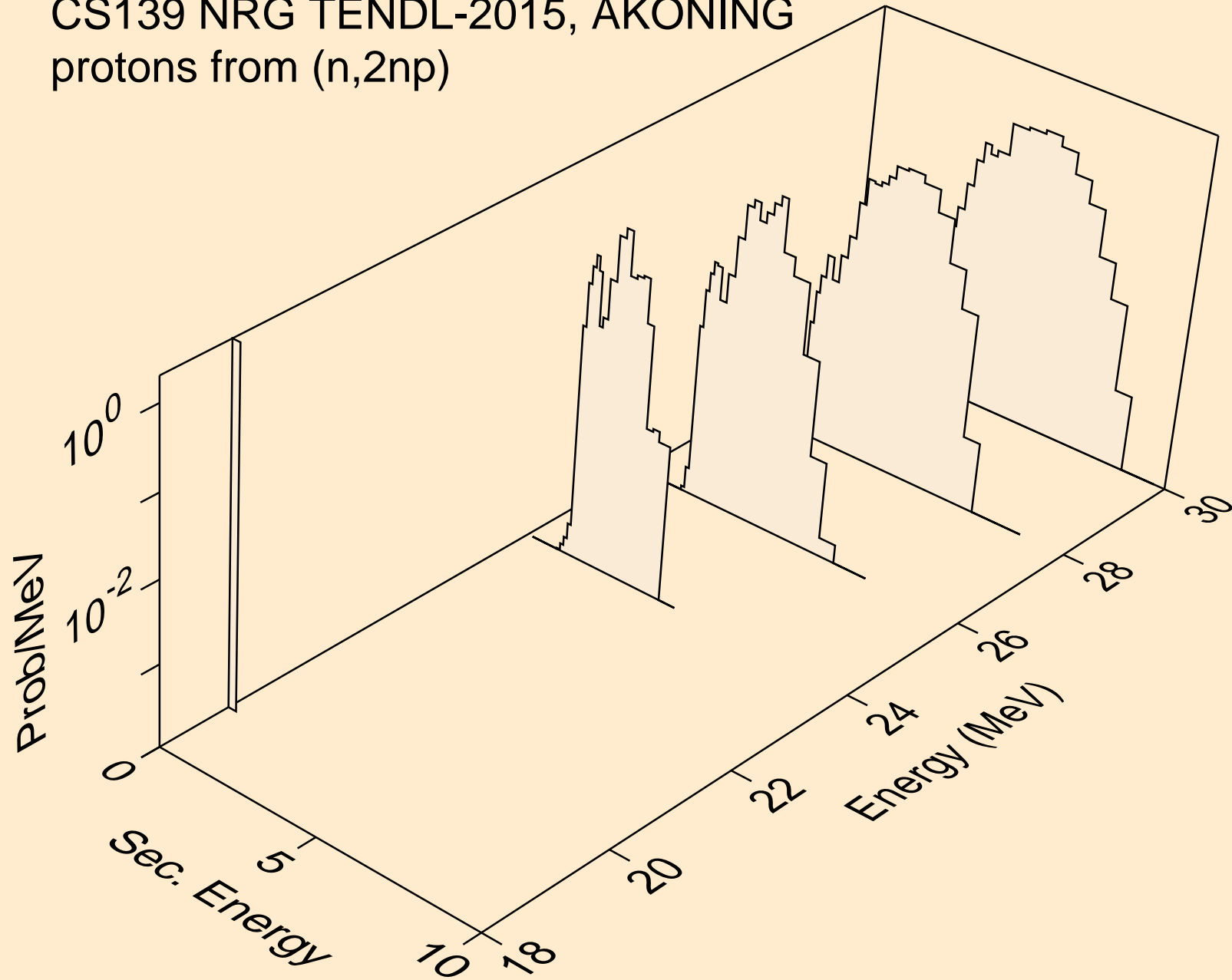
CS139 NRG TENDL-2015, AKONING  
protons from (n,2np)



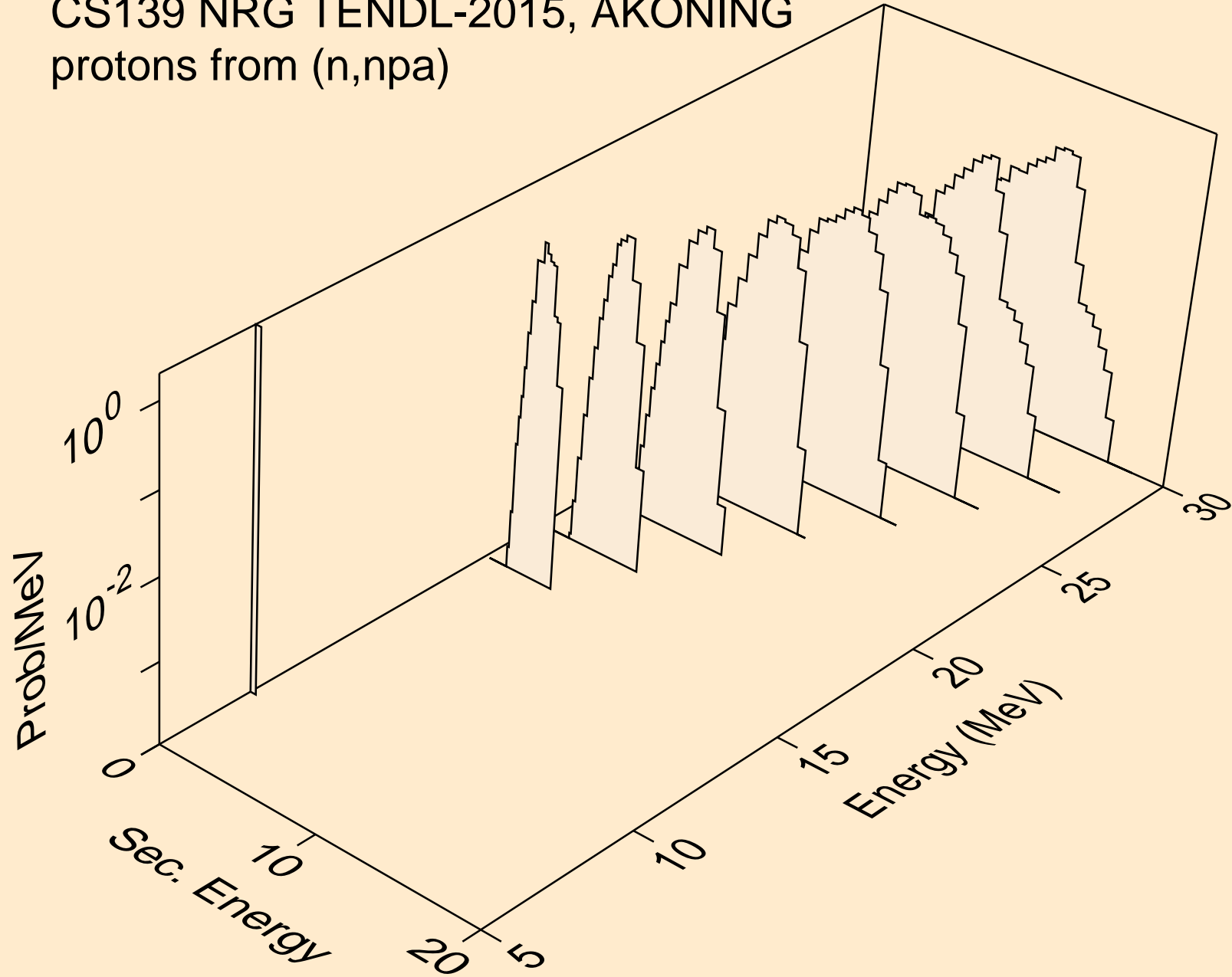
CS139 NRG TENDL-2015, AKONING  
protons from (n,3np)



CS139 NRG TENDL-2015, AKONING  
protons from (n,2np)

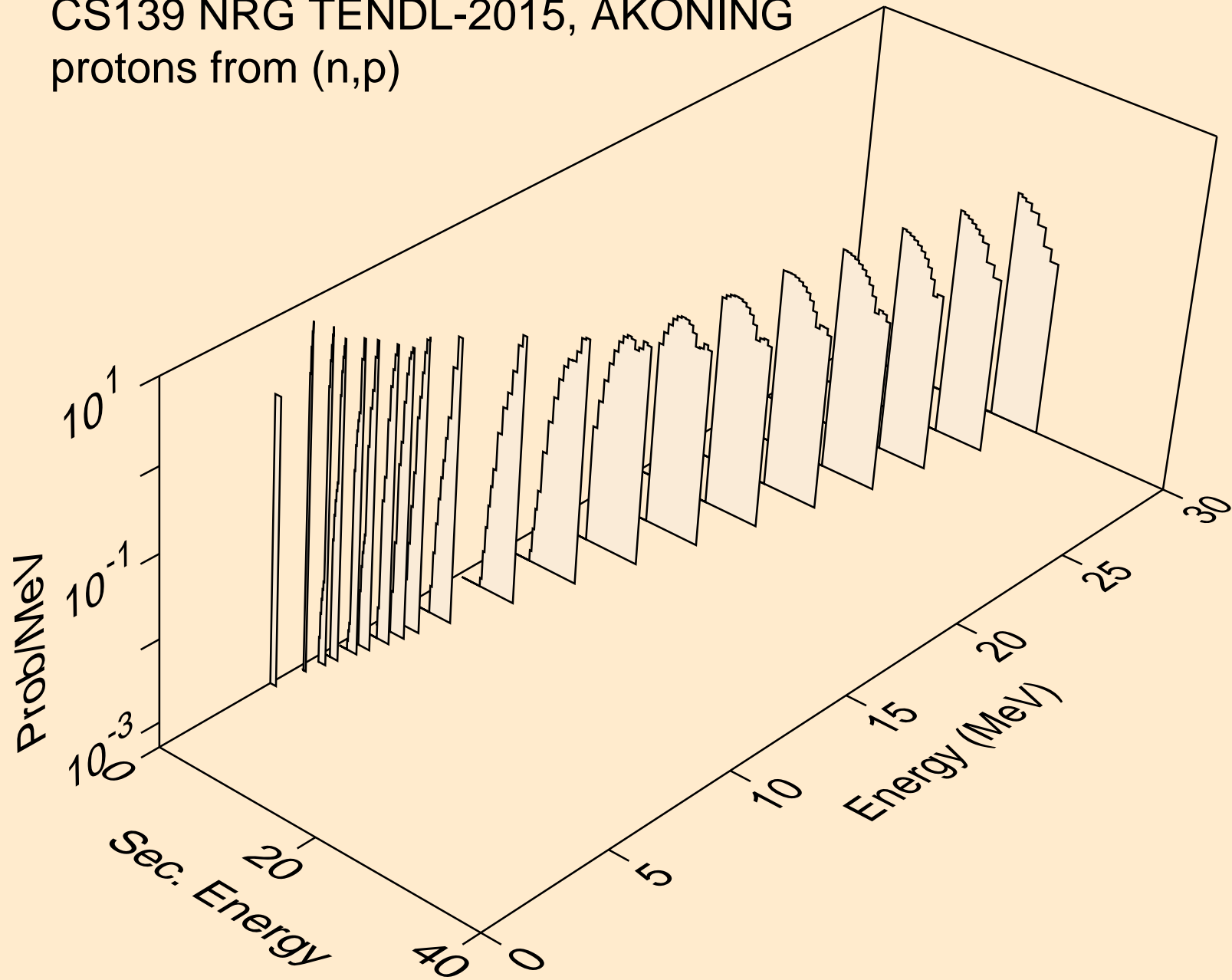


CS139 NRG TENDL-2015, AKONING  
protons from (n,npa)

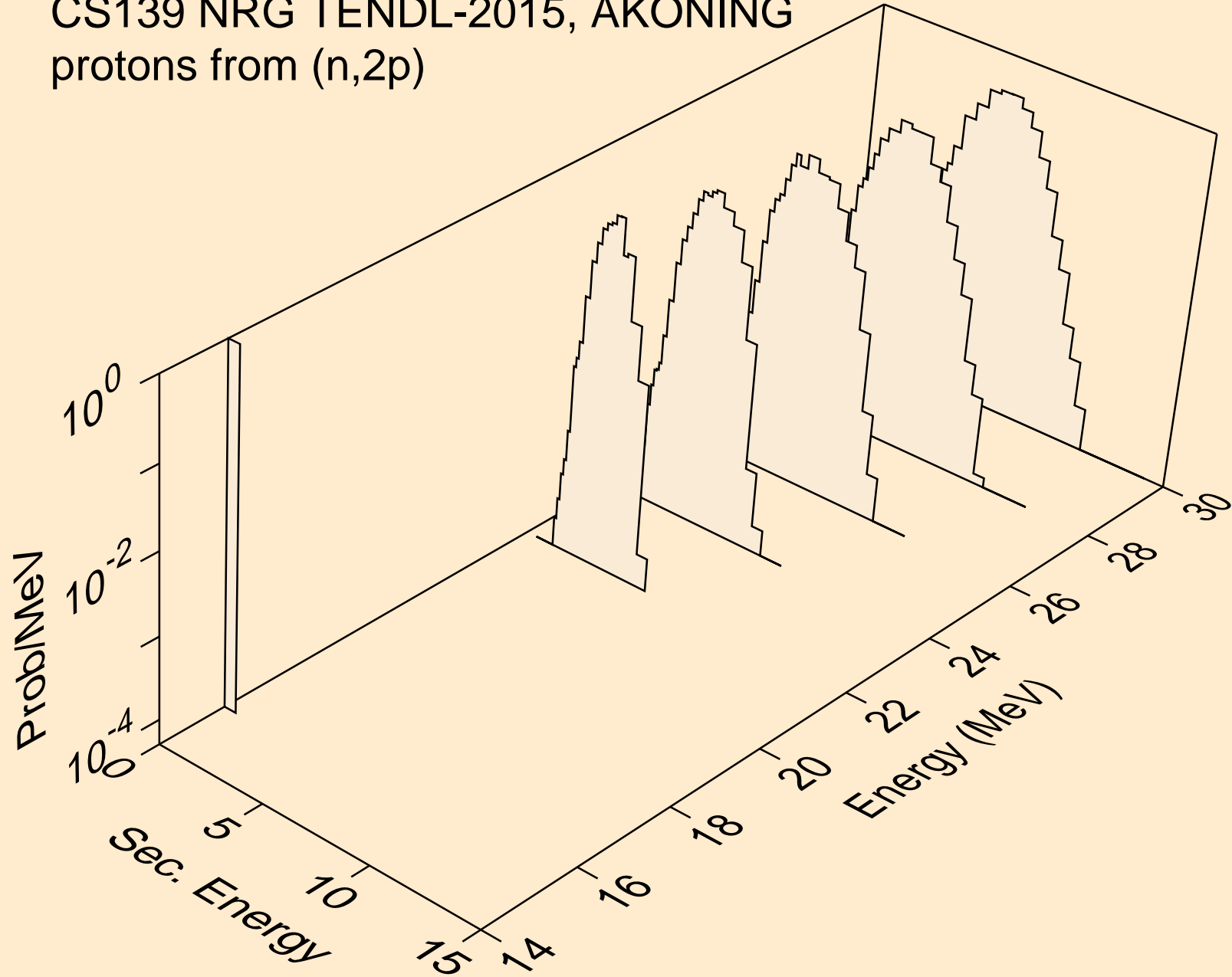




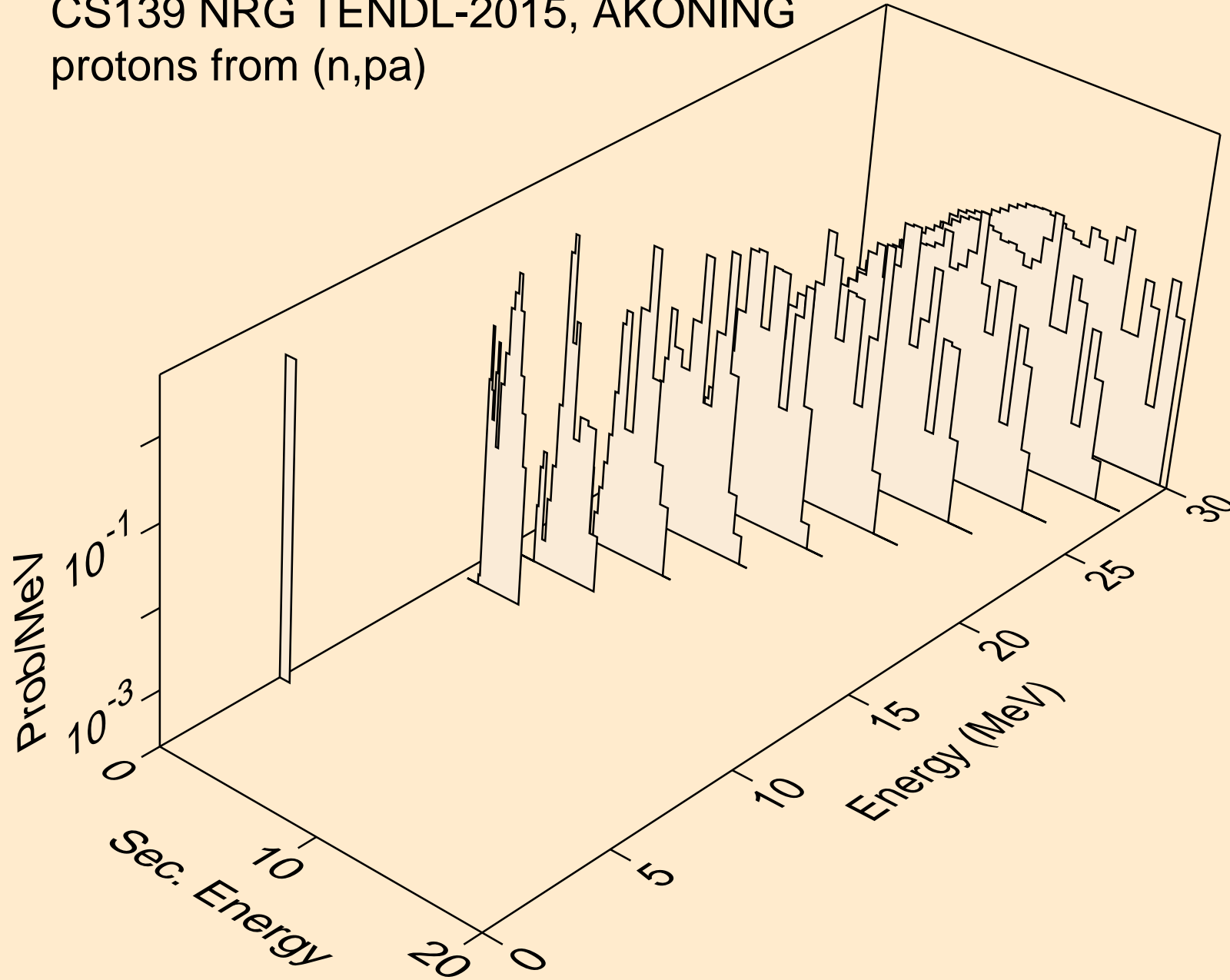
CS139 NRG TENDL-2015, AKONING  
protons from (n,p)



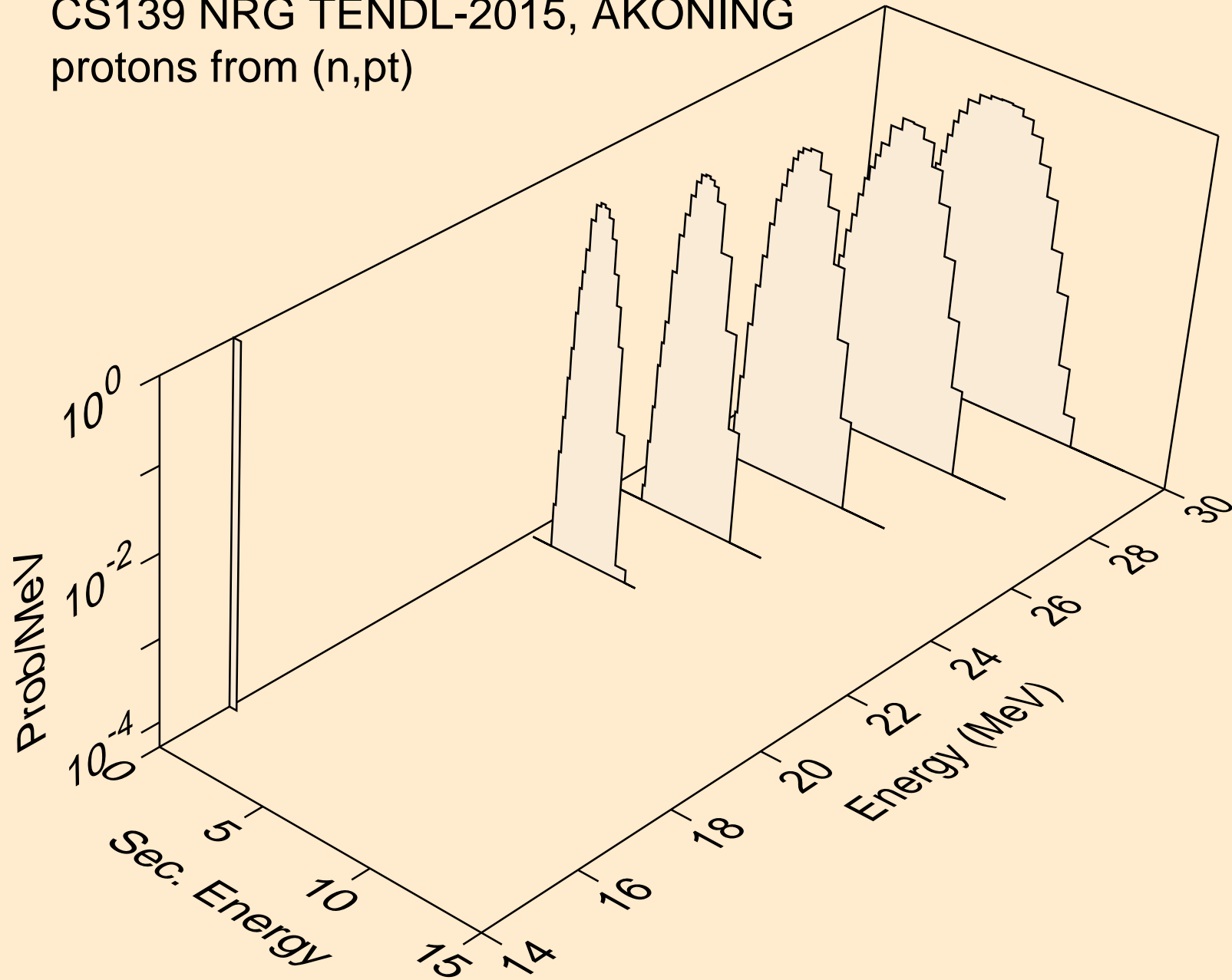
CS139 NRG TENDL-2015, AKONING  
protons from (n,2p)



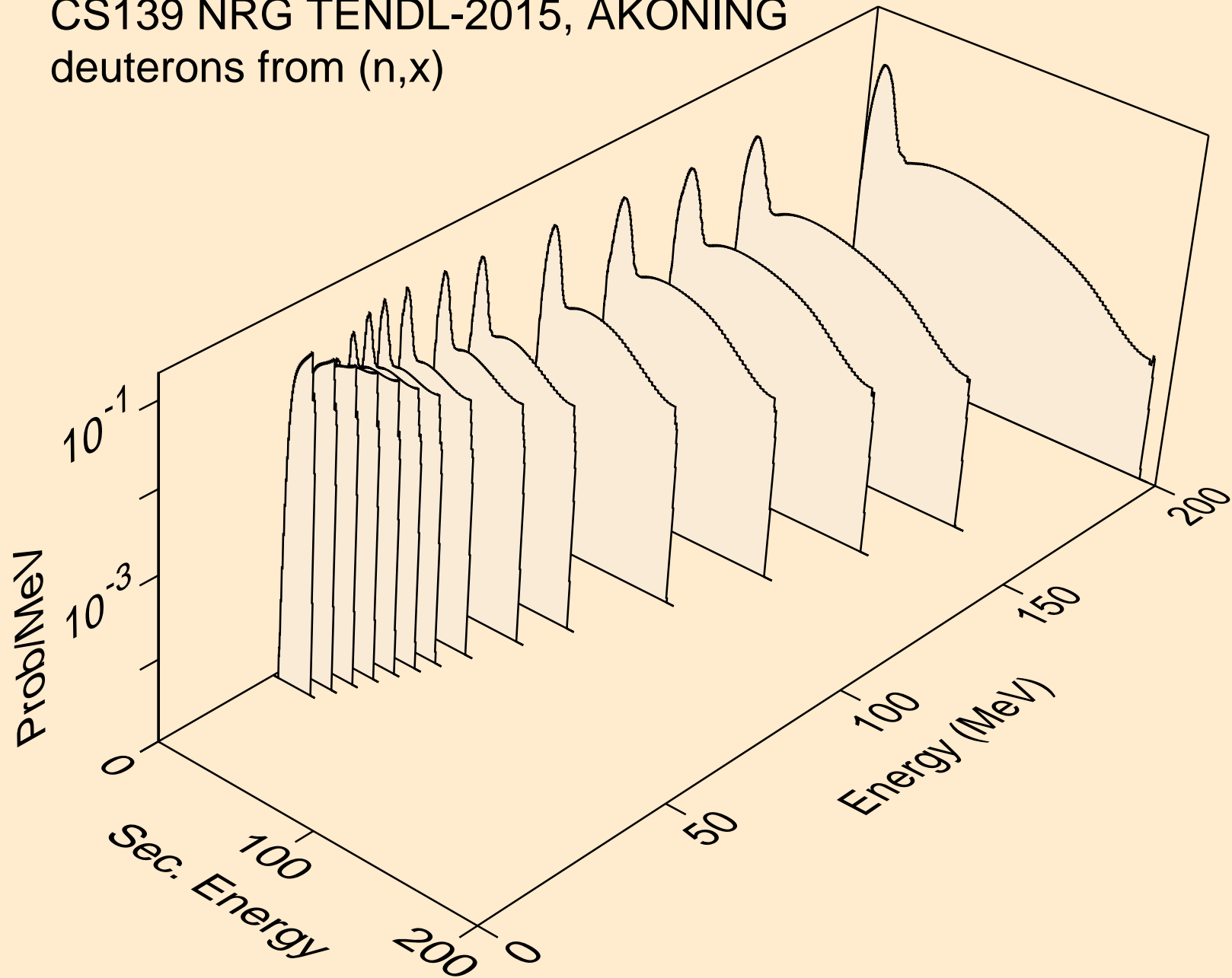
CS139 NRG TENDL-2015, AKONING  
protons from (n,pa)



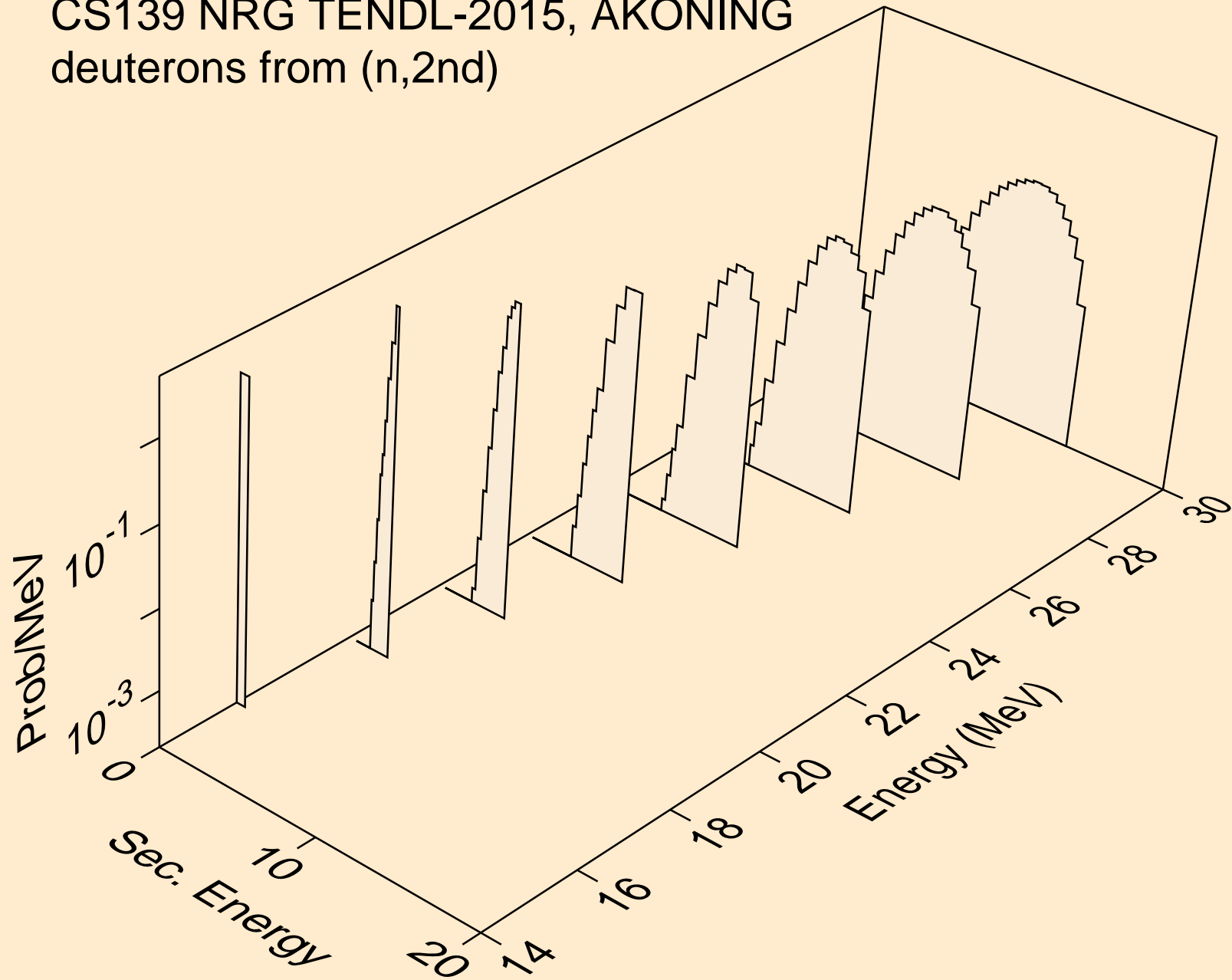
CS139 NRG TENDL-2015, AKONING  
protons from (n,pt)



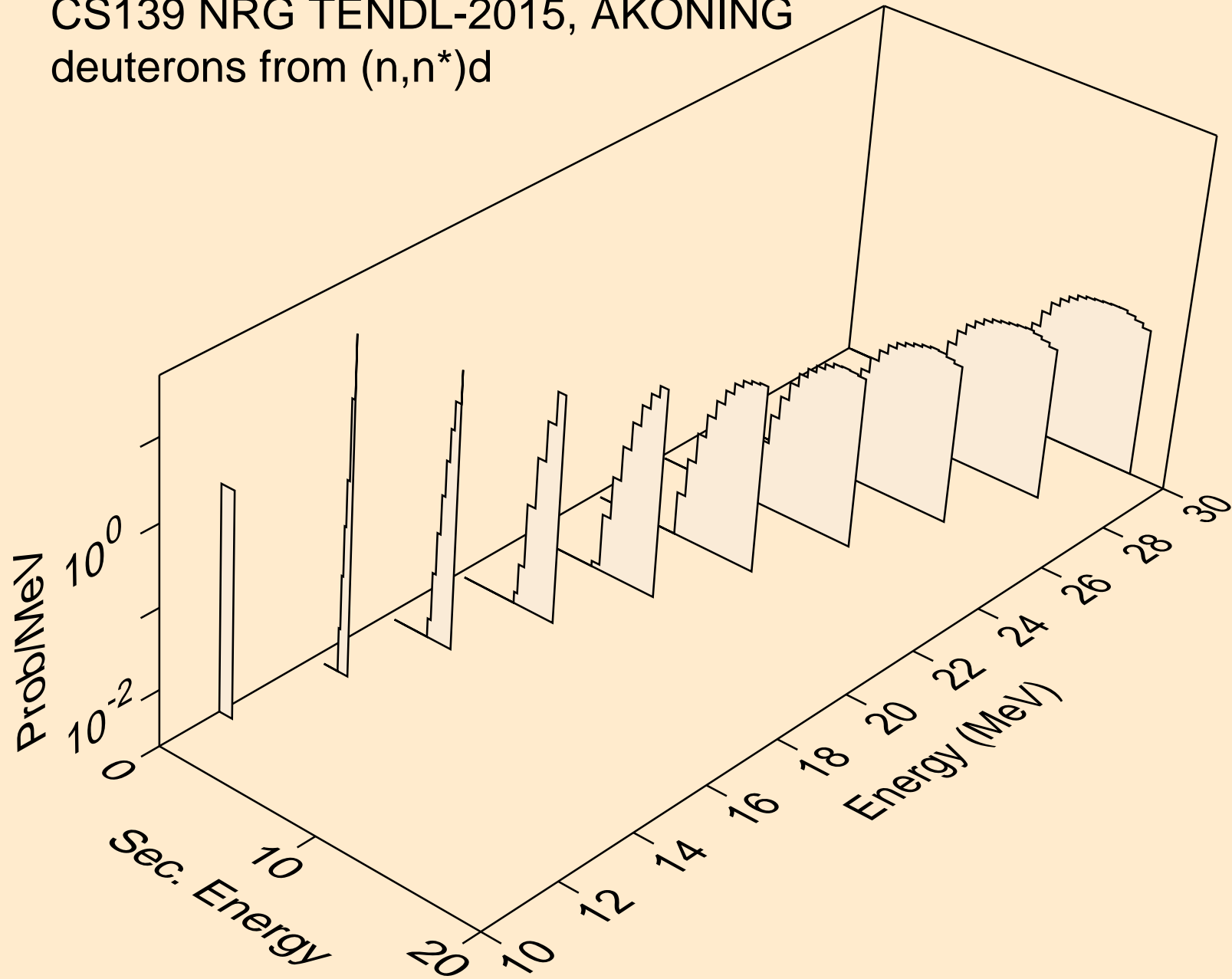
CS139 NRG TENDL-2015, AKONING  
deuterons from (n,x)



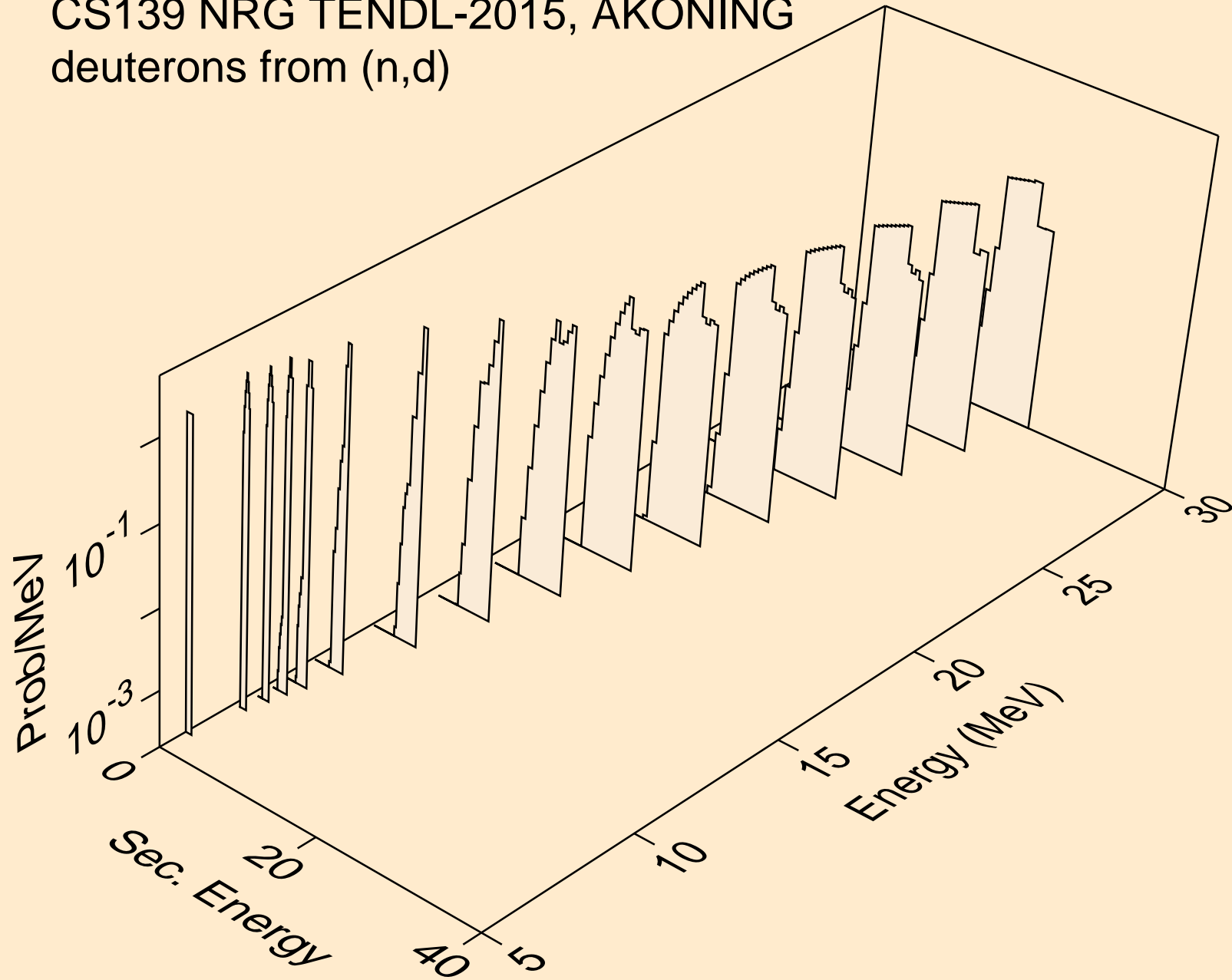
CS139 NRG TENDL-2015, AKONING  
deuterons from (n,2nd)



CS139 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d

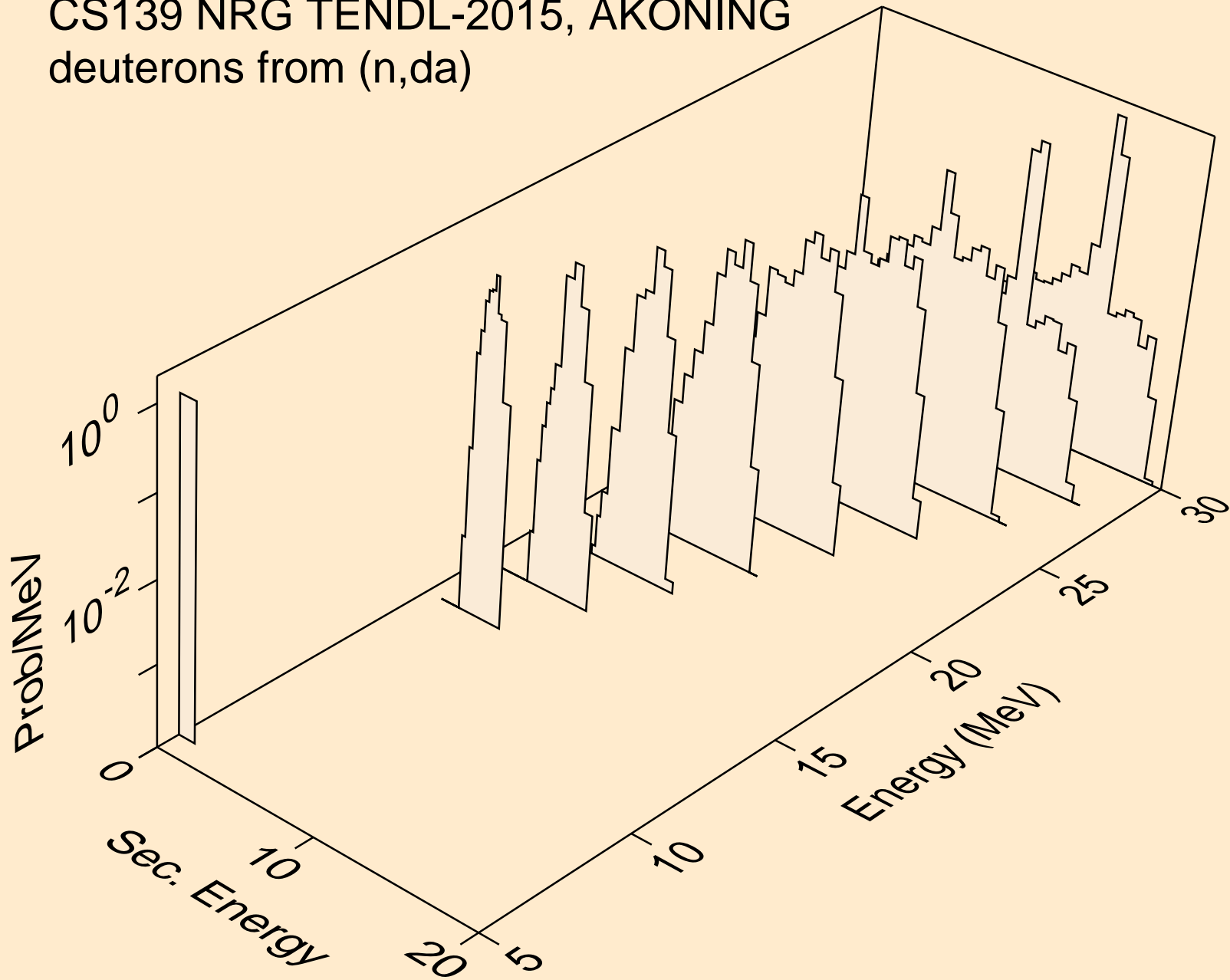


CS139 NRG TENDL-2015, AKONING  
deuterons from (n,d)

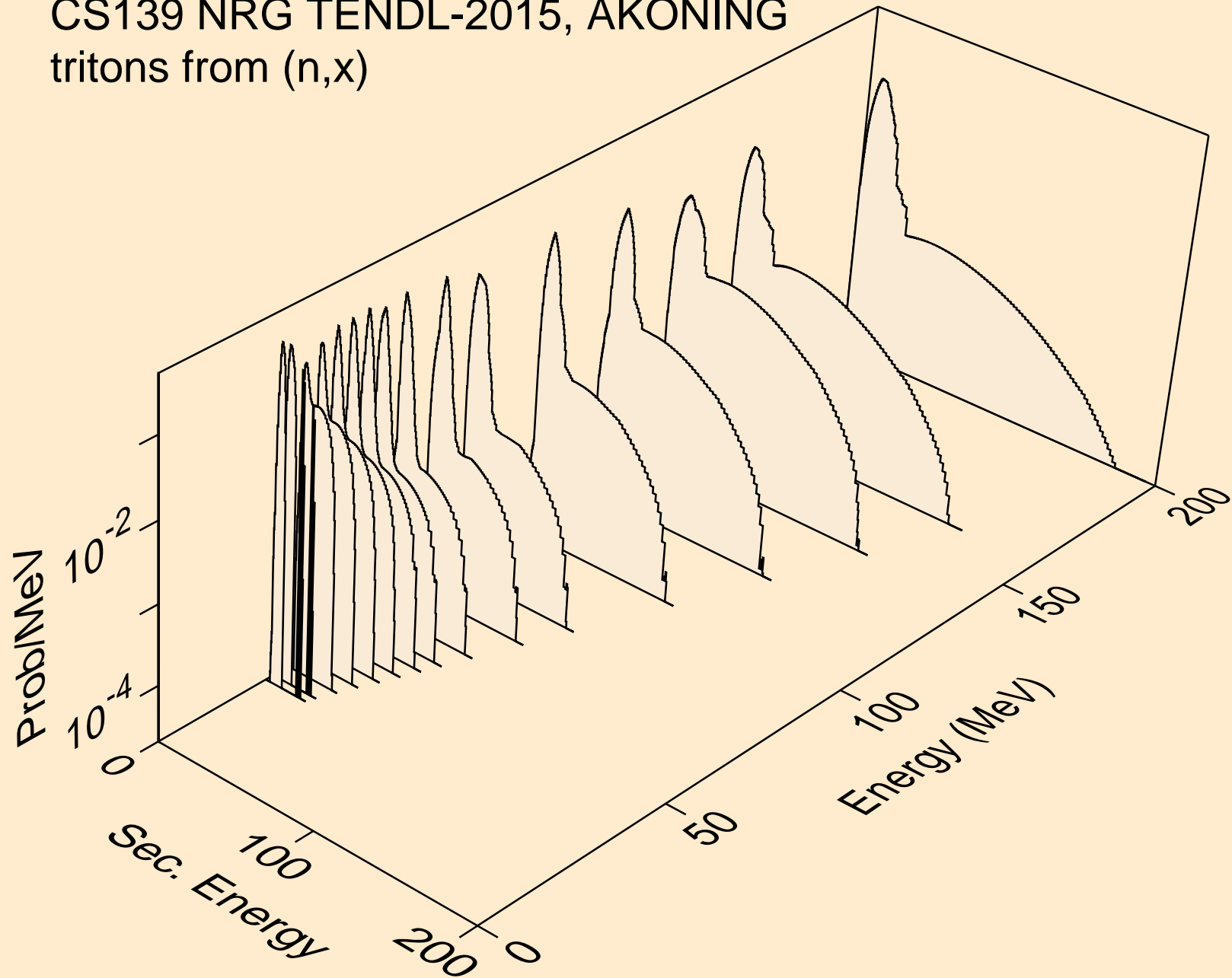




CS139 NRG TENDL-2015, AKONING  
deuterons from (n,da)

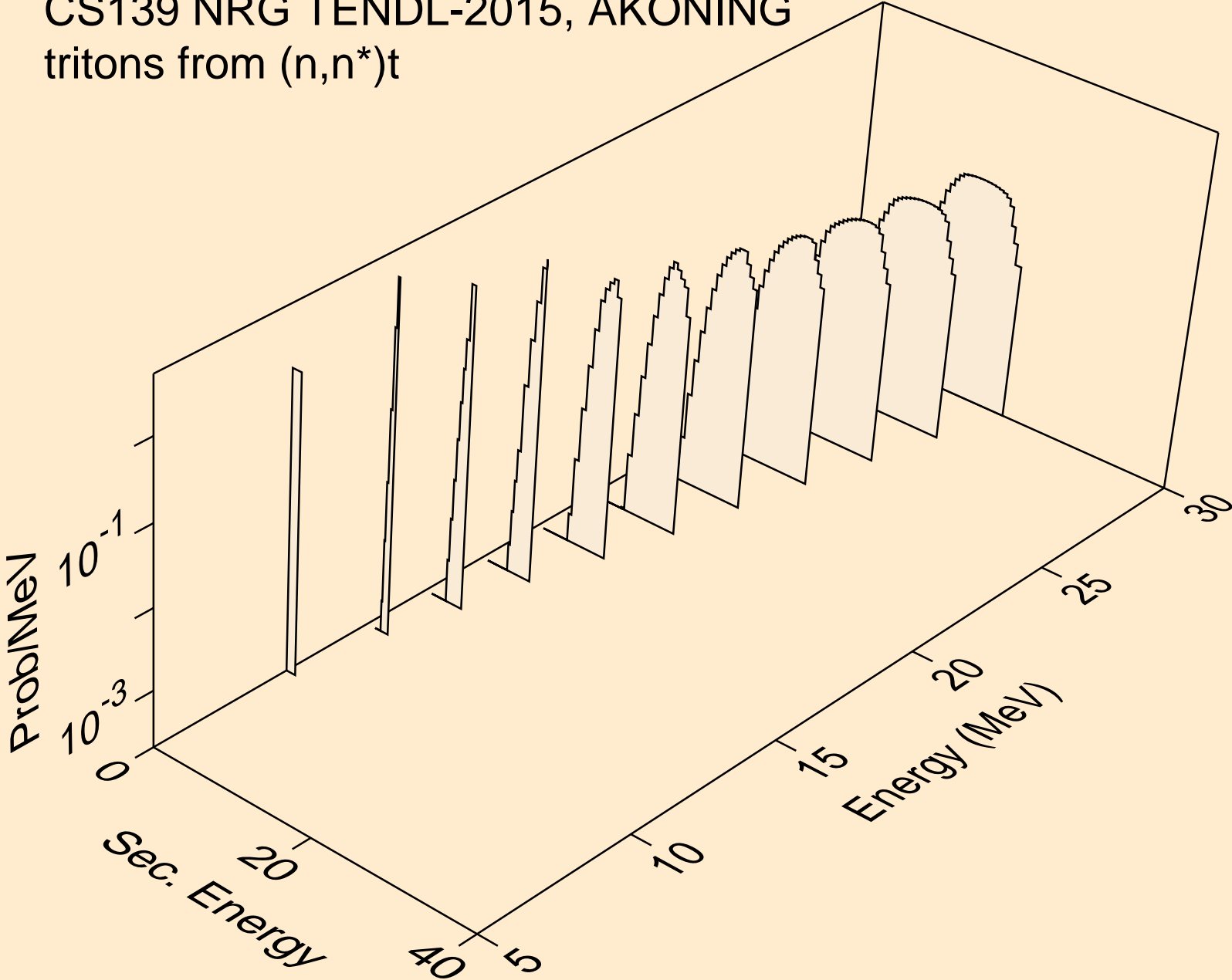


CS139 NRG TENDL-2015, AKONING  
tritons from (n,x)

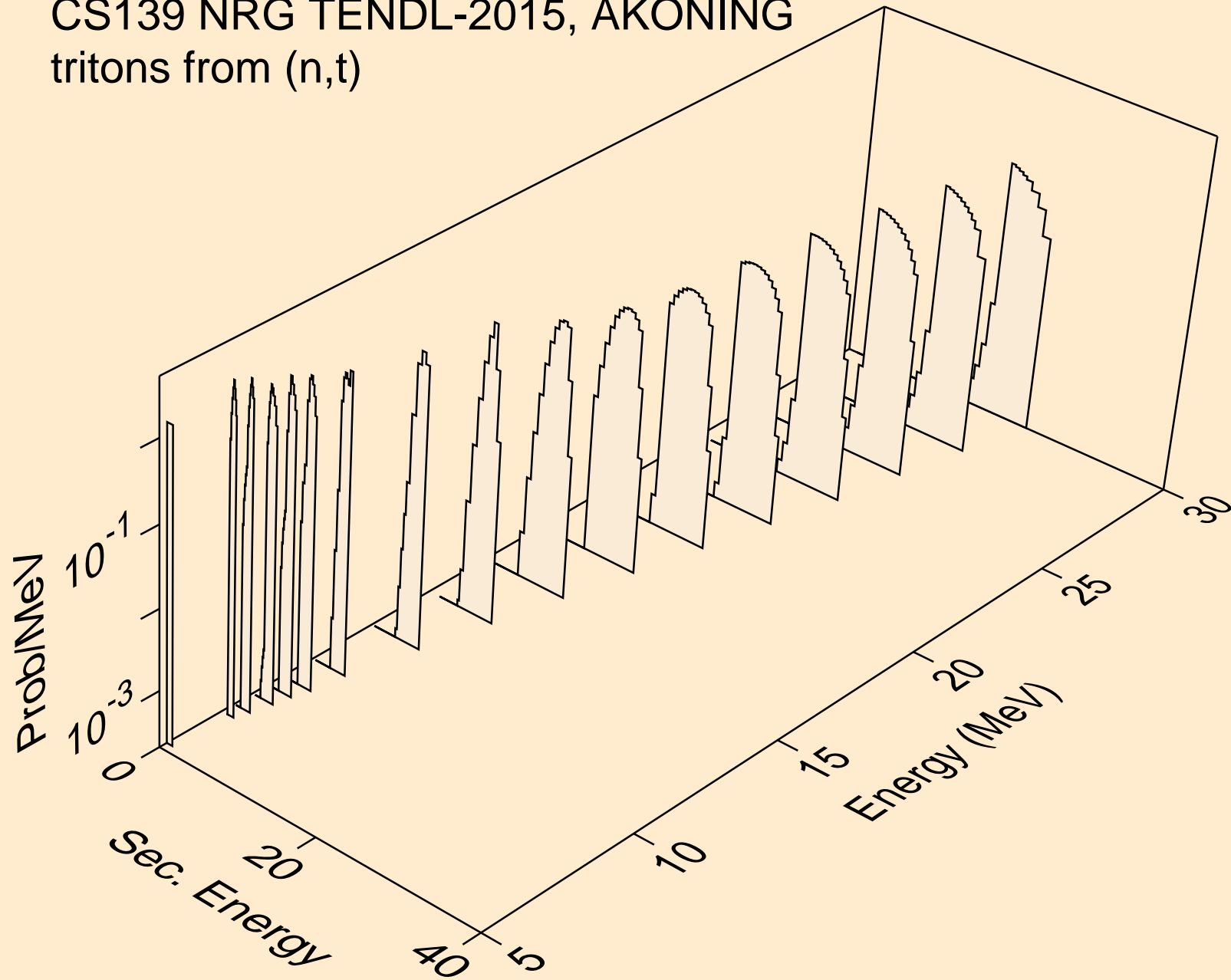


# CS139 NRG TENDL-2015, AKONING

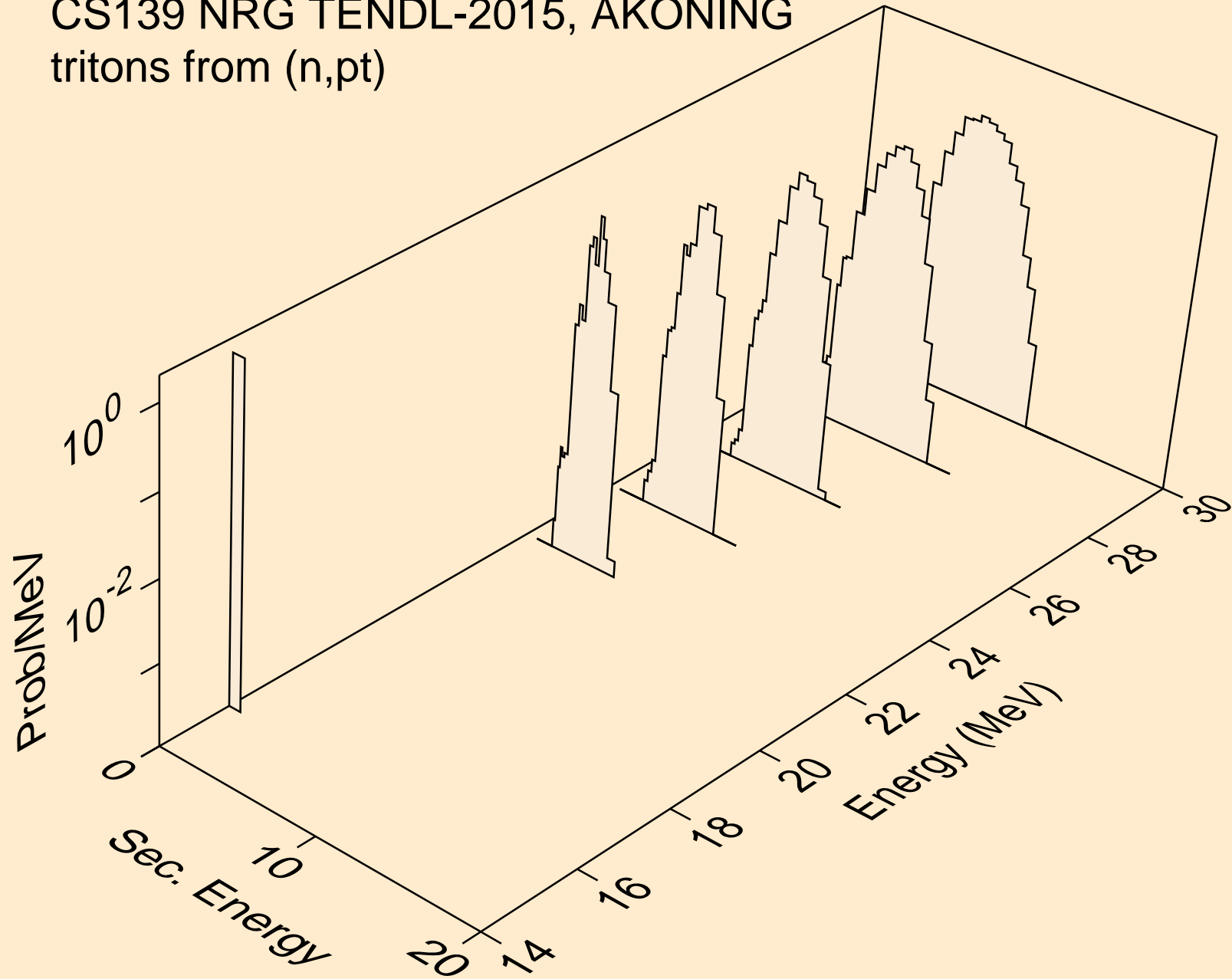
tritons from (n,n\*)t



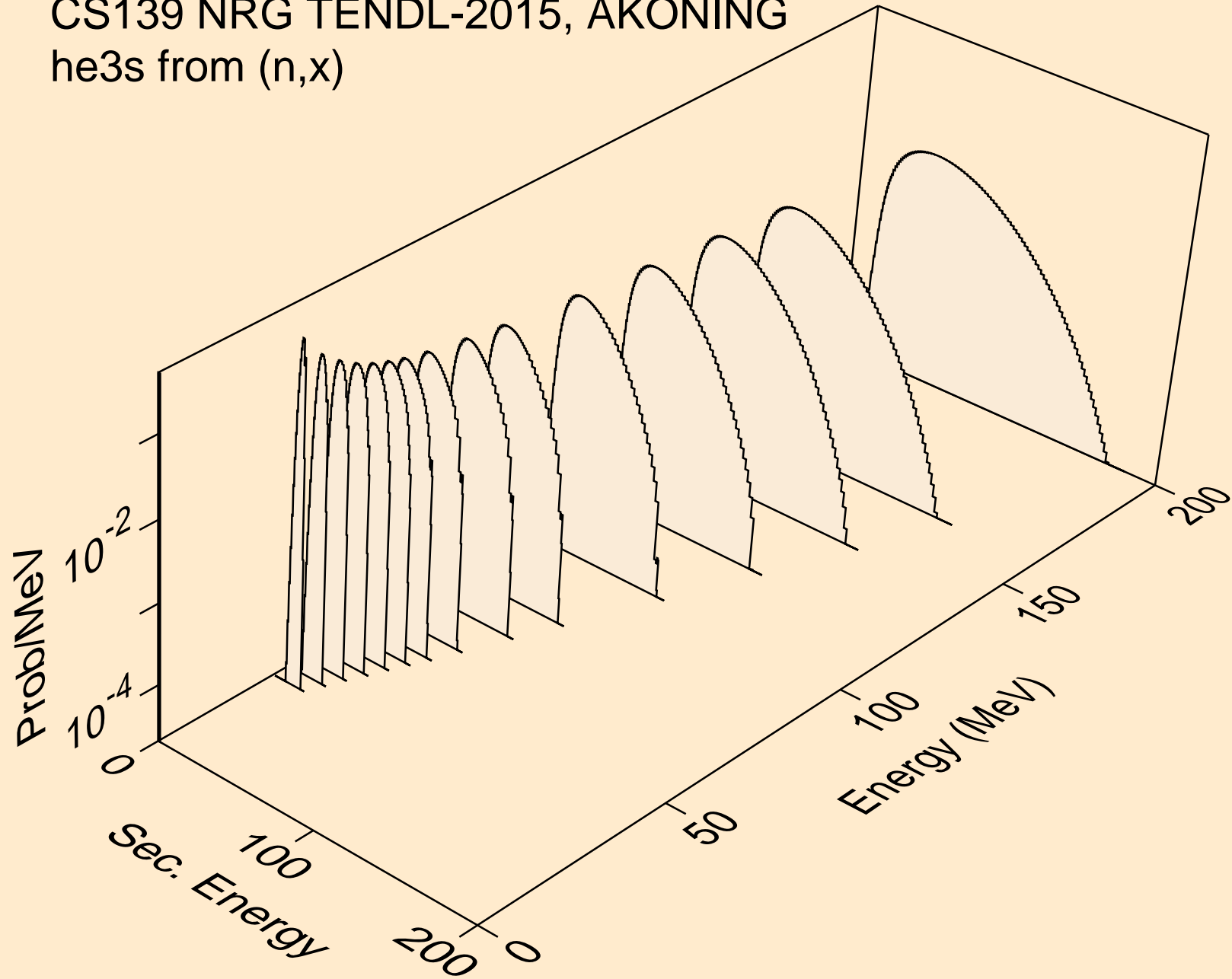
CS139 NRG TENDL-2015, AKONING  
tritons from (n,t)



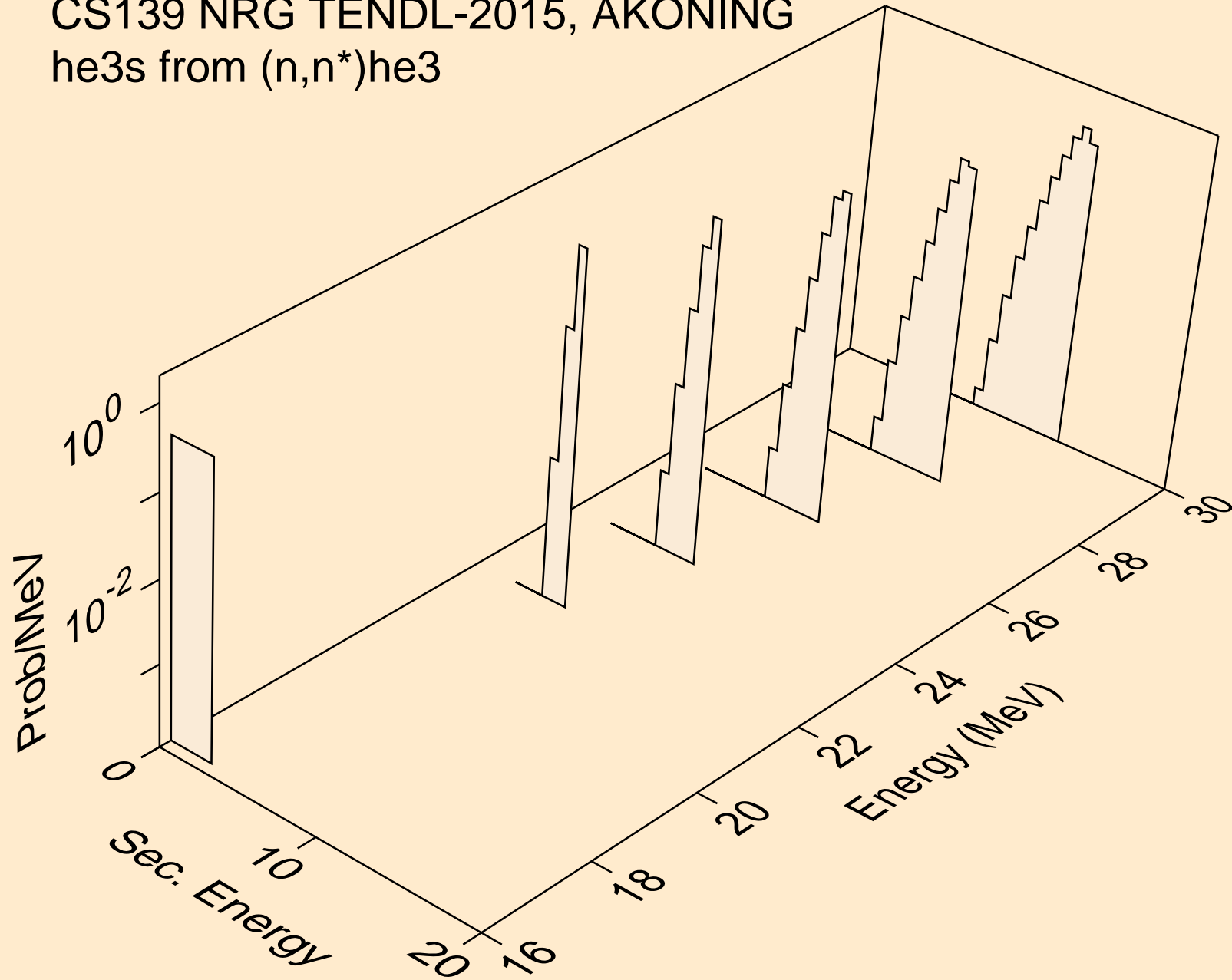
CS139 NRG TENDL-2015, AKONING  
tritons from (n,pt)



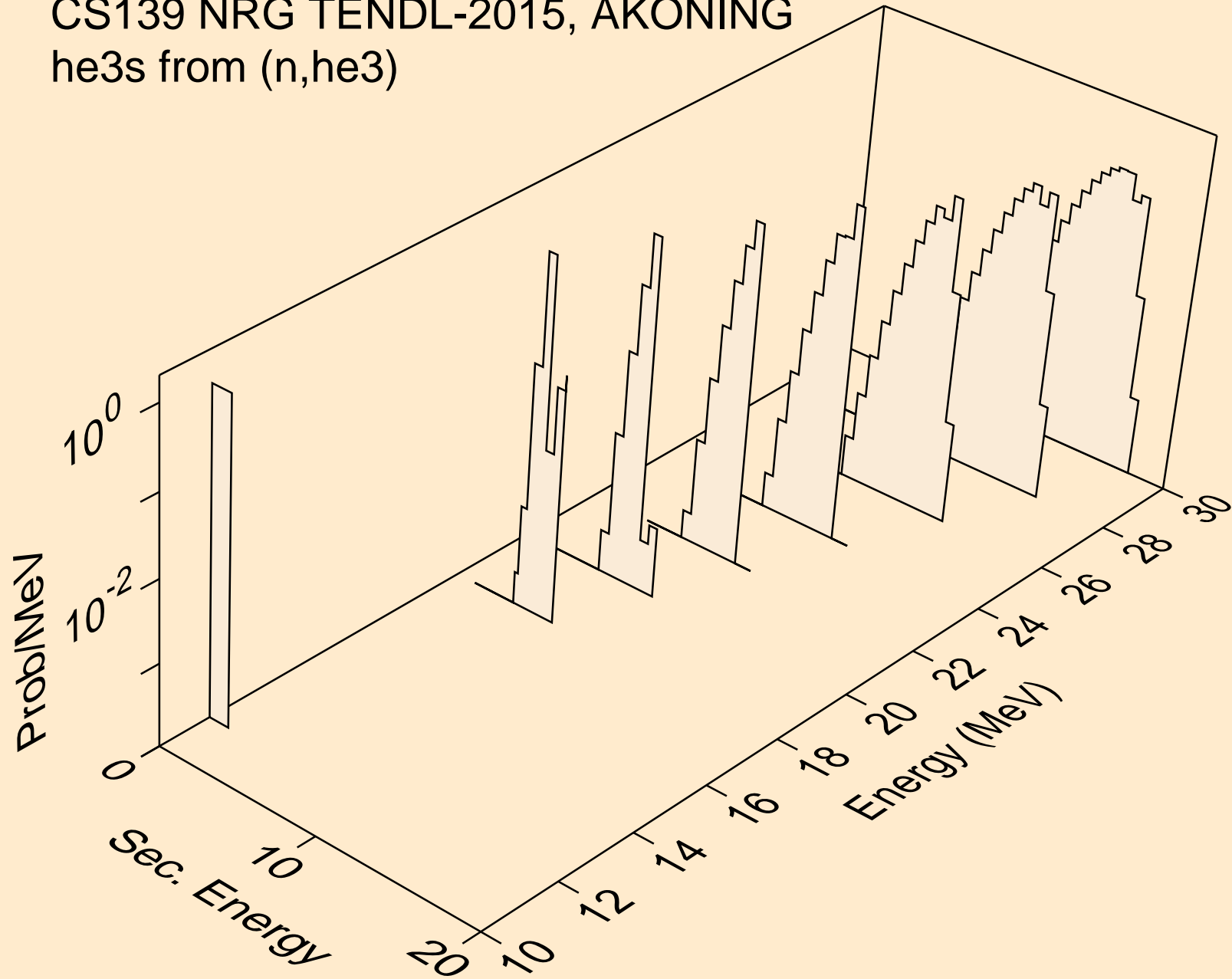
CS139 NRG TENDL-2015, AKONING  
he3s from (n,x)



CS139 NRG TENDL-2015, AKONING  
he3s from (n,n\*)he3

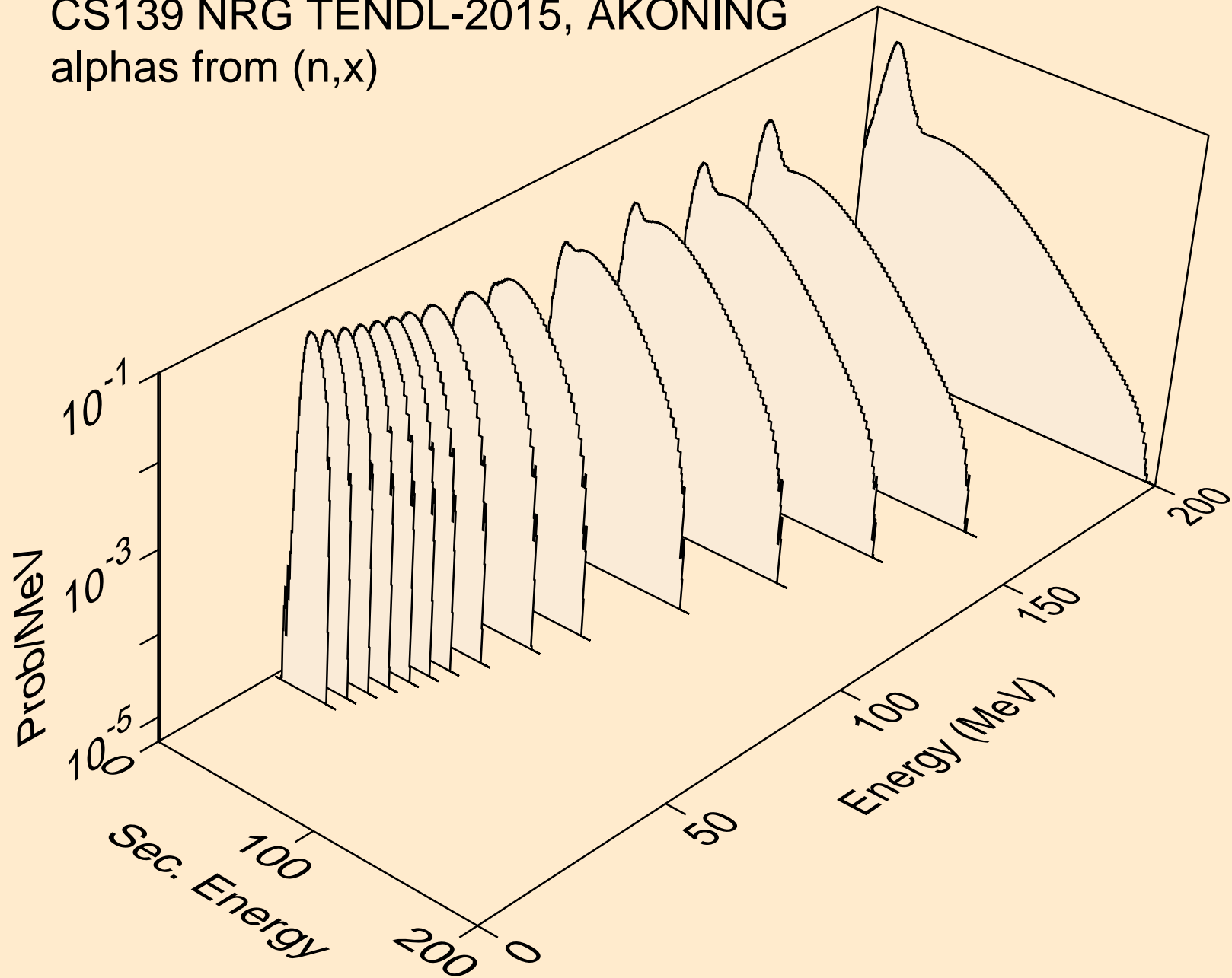


CS139 NRG TENDL-2015, AKONING  
he3s from (n,he3)

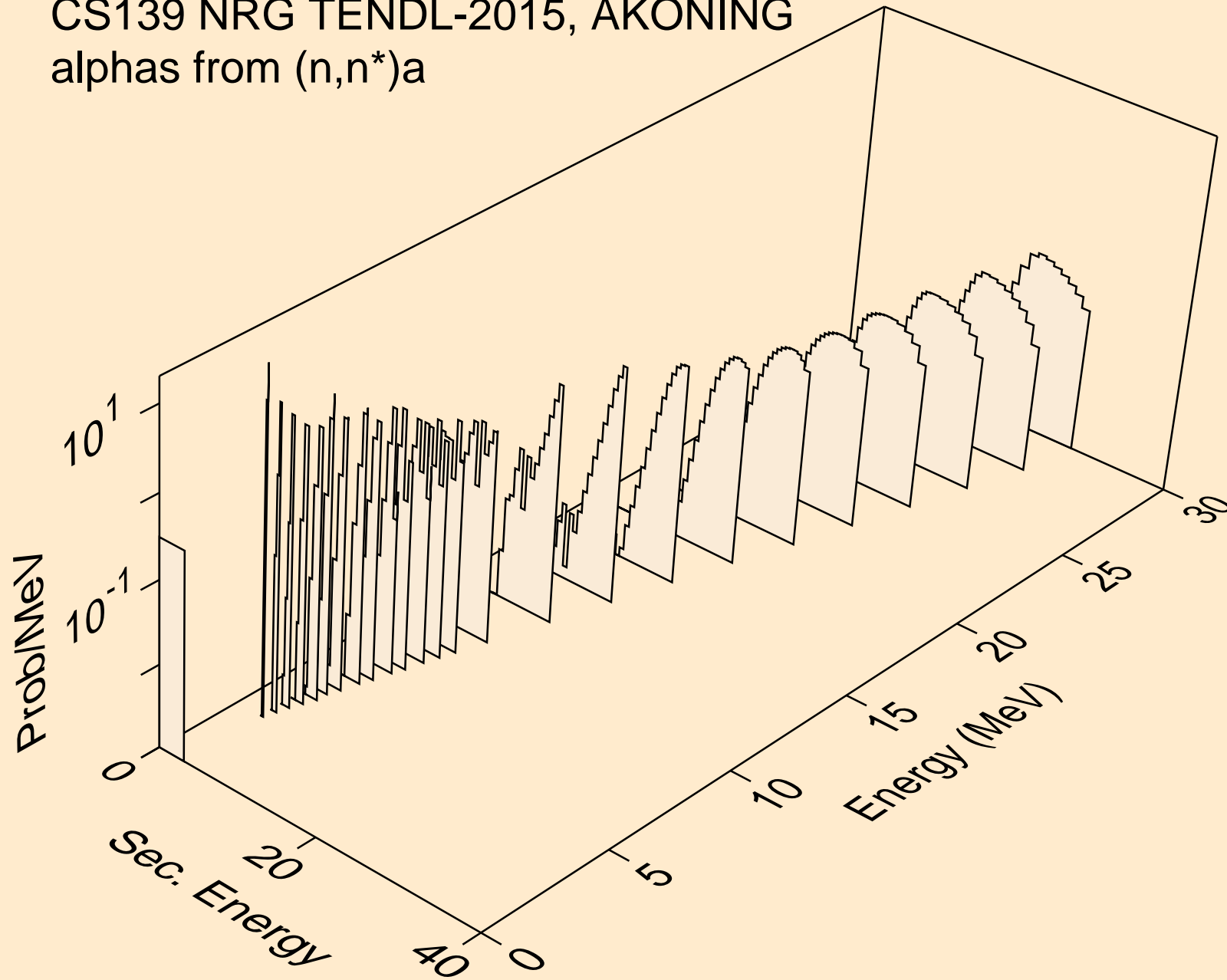




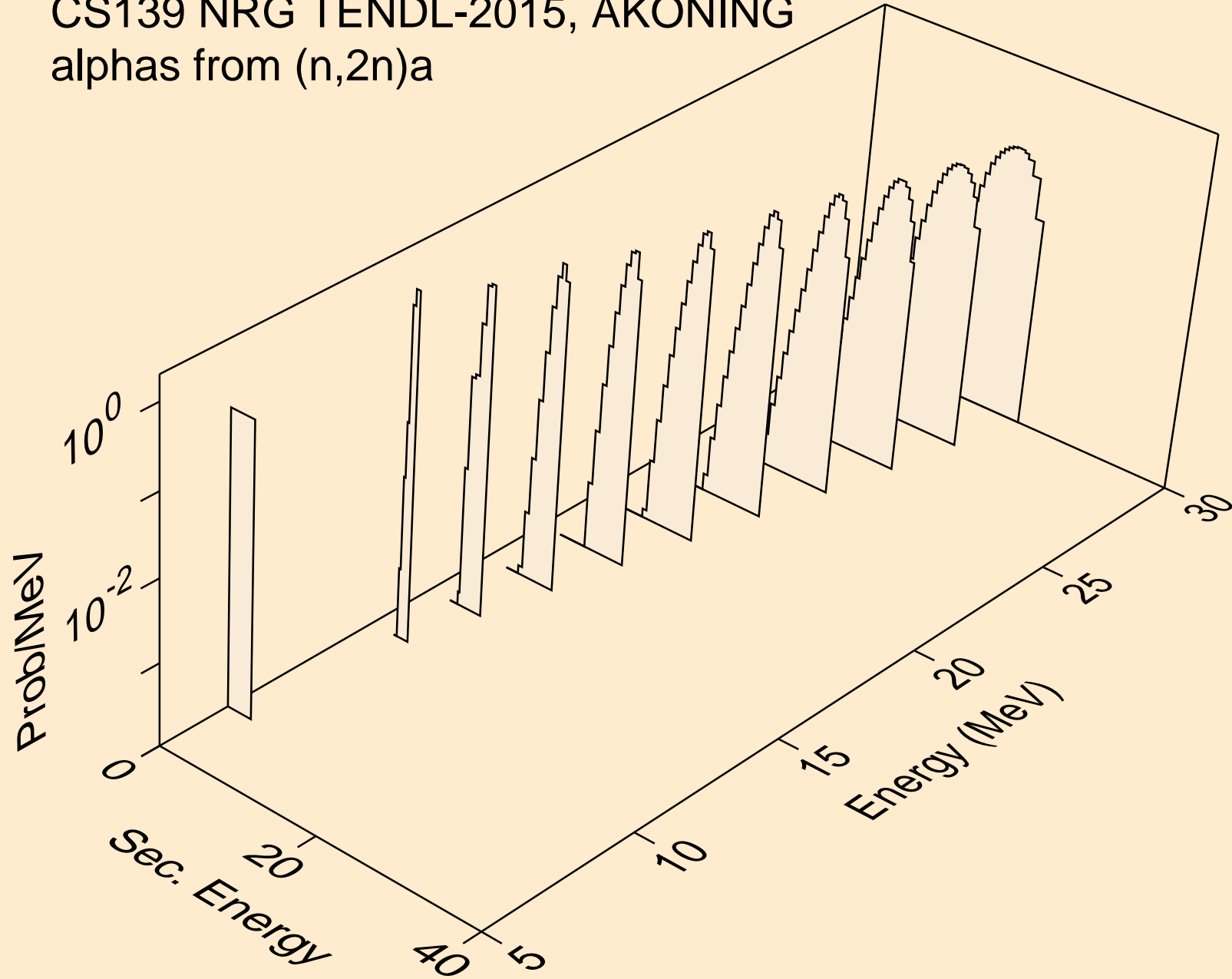
CS139 NRG TENDL-2015, AKONING  
alphas from (n,x)



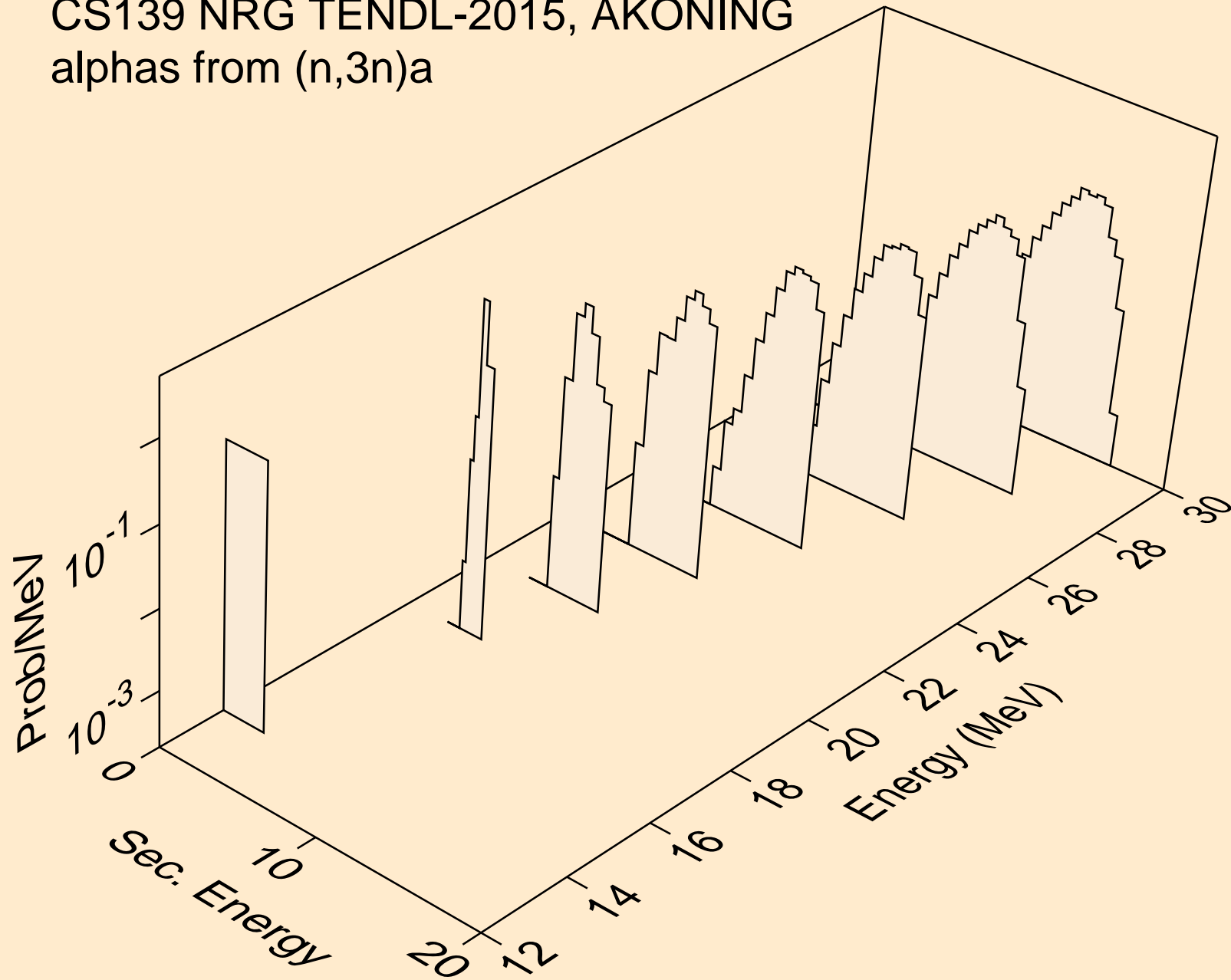
CS139 NRG TENDL-2015, AKONING  
alphas from (n,n\*)a



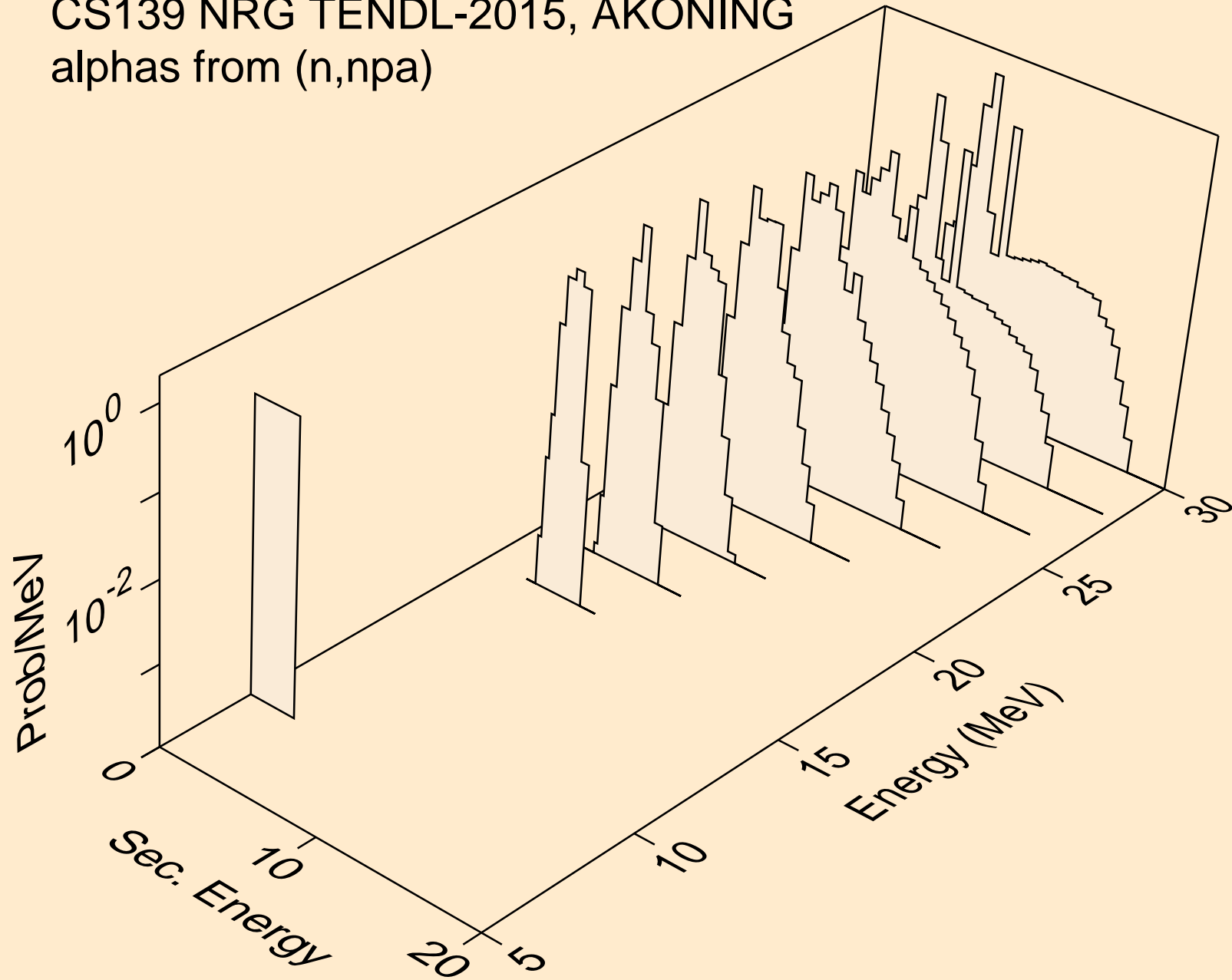
CS139 NRG TENDL-2015, AKONING  
alphas from (n,2n)a



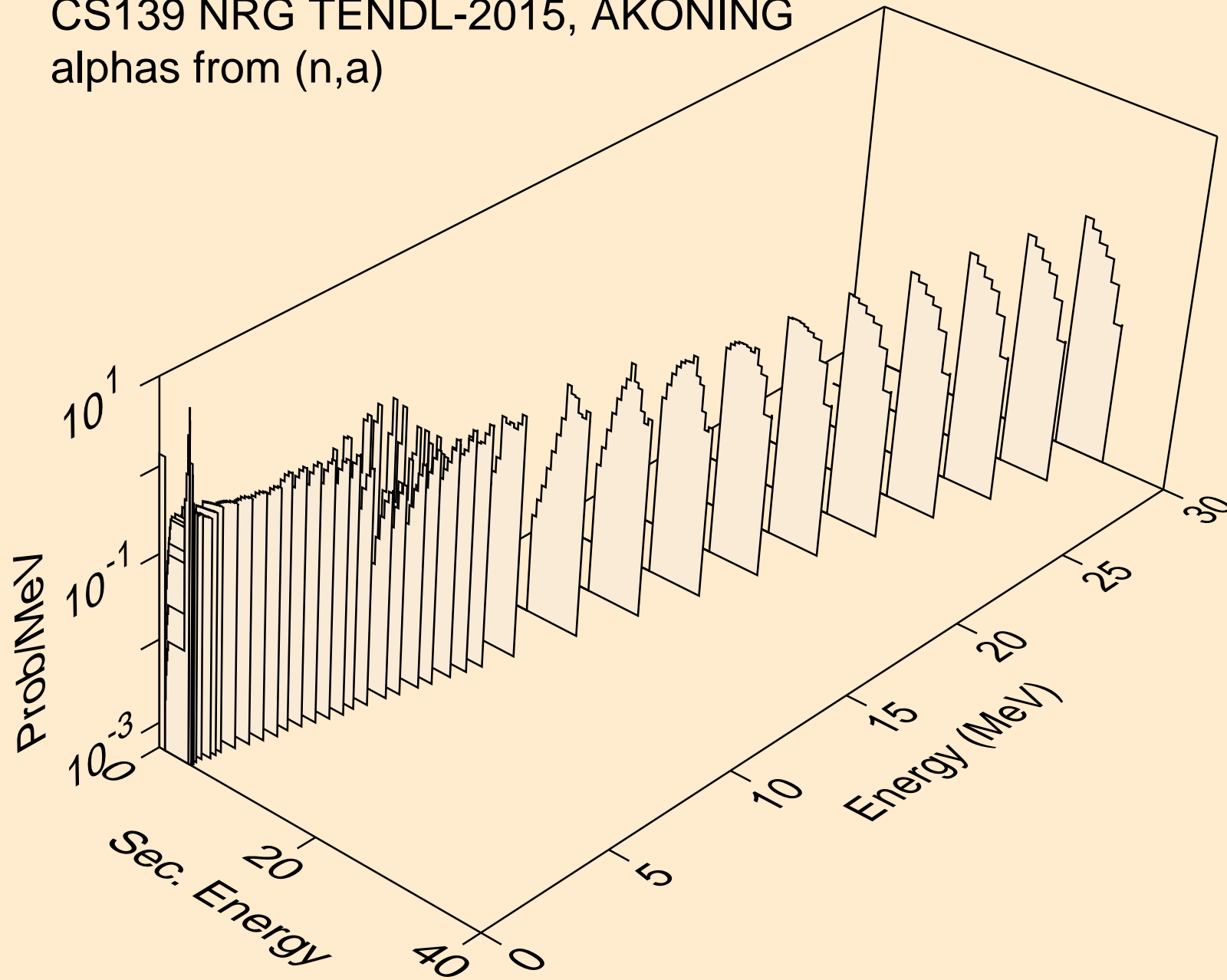
CS139 NRG TENDL-2015, AKONING  
alphas from (n,3n)a



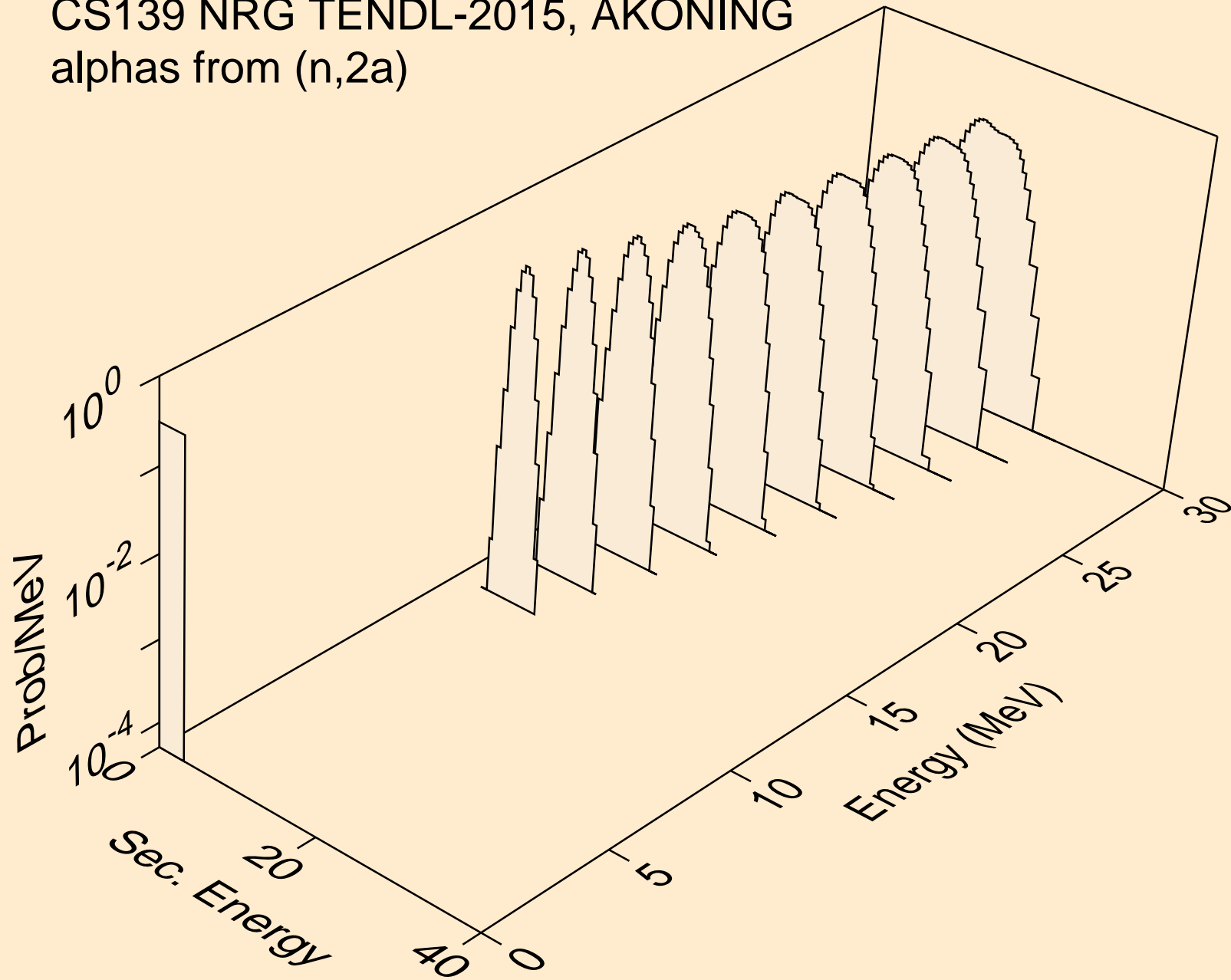
CS139 NRG TENDL-2015, AKONING  
alphas from (n,npa)



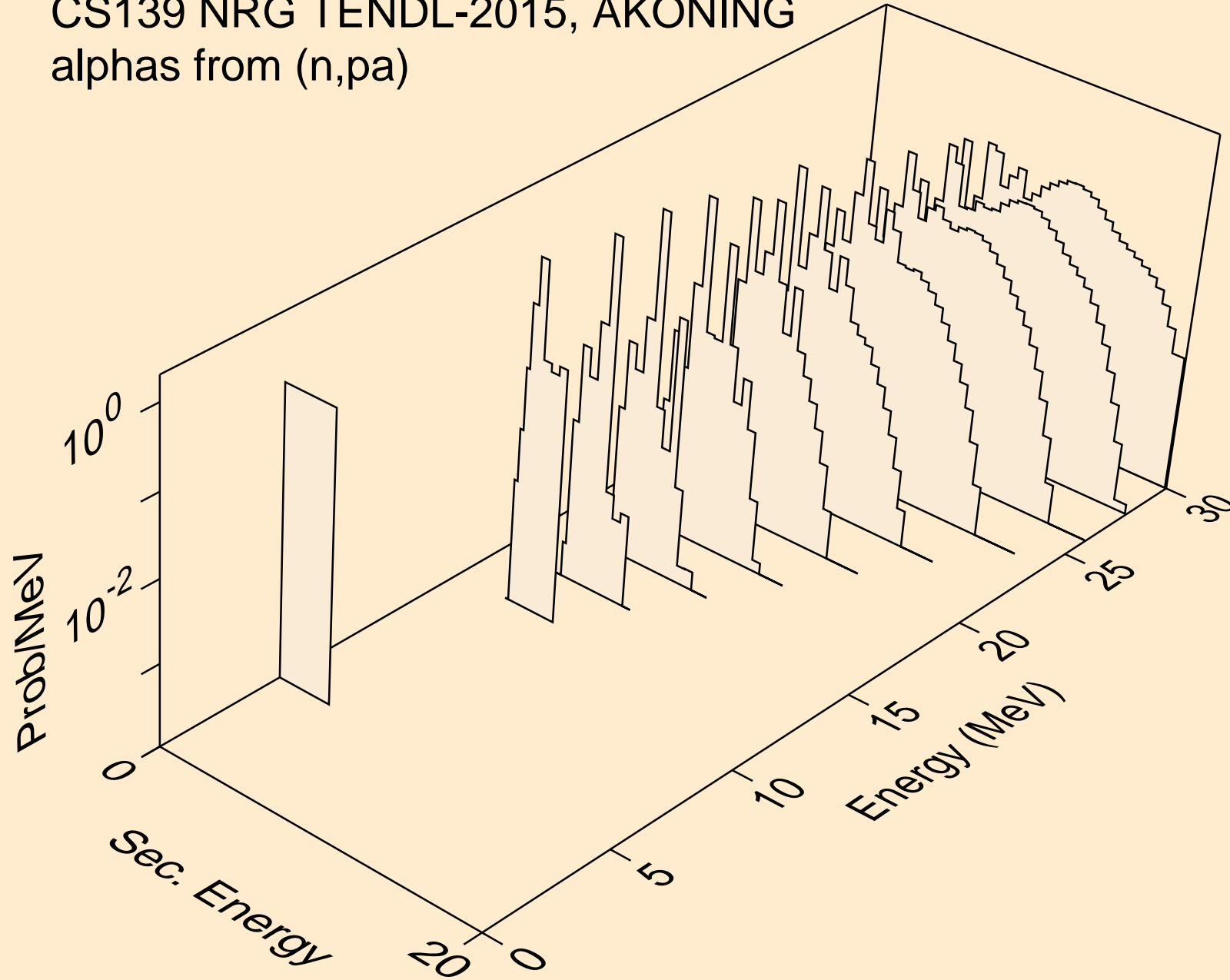
CS139 NRG TENDL-2015, AKONING  
alphas from (n,a)



CS139 NRG TENDL-2015, AKONING  
alphas from (n,2a)



CS139 NRG TENDL-2015, AKONING  
alphas from (n,pa)





CS139 NRG TENDL-2015, AKONING  
alphas from (n,da)

