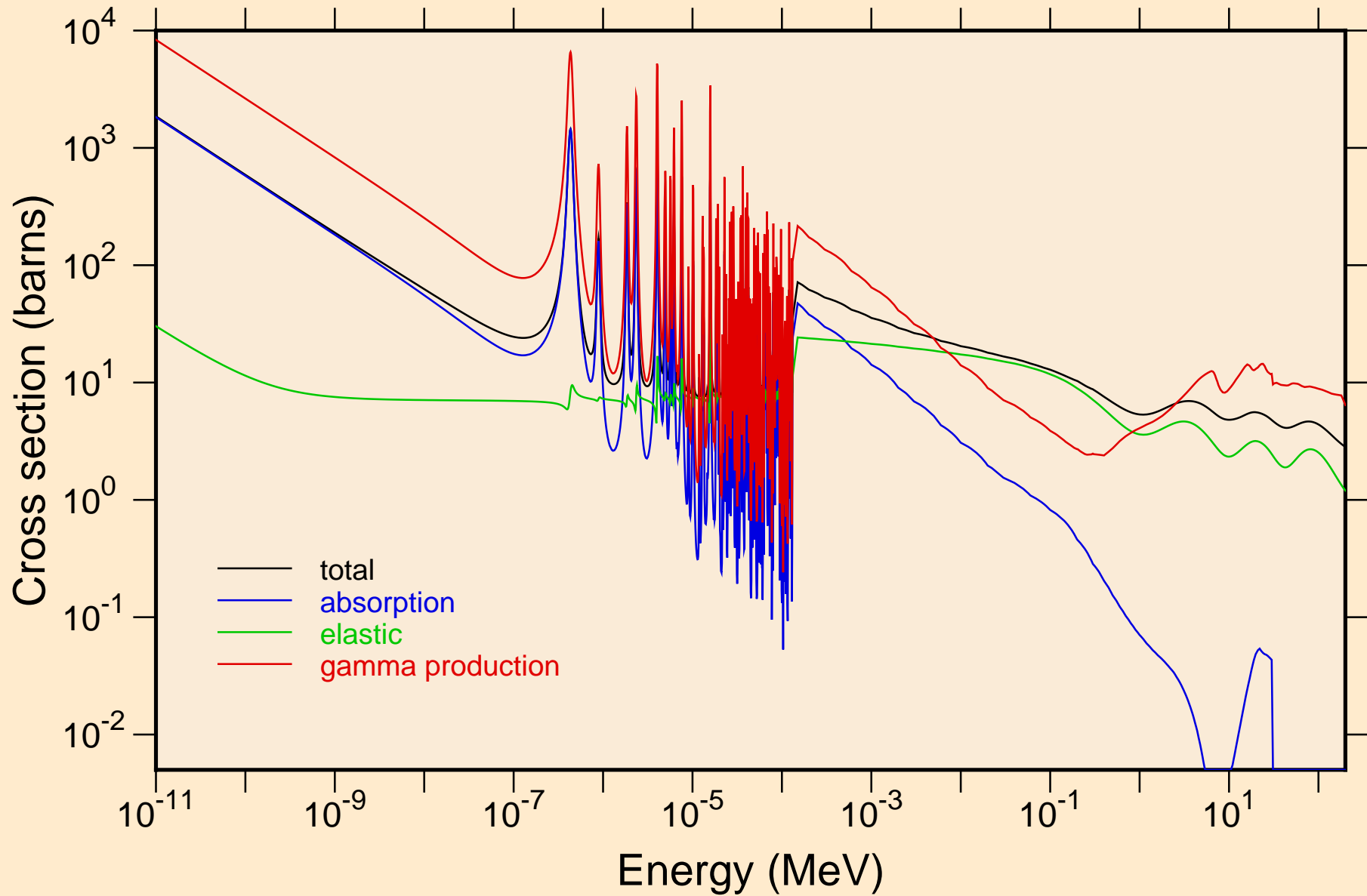
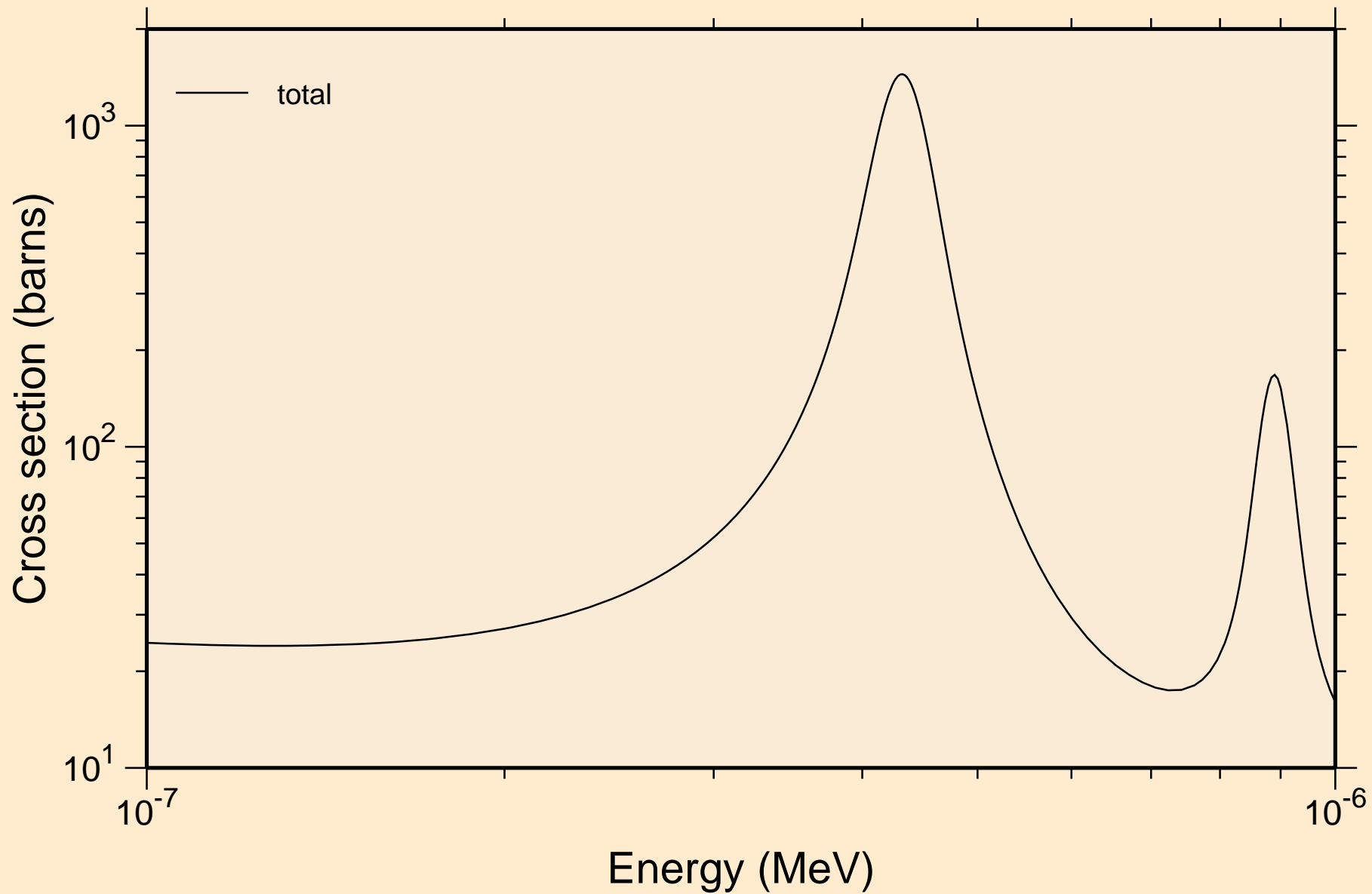


# IR190M NRG TENDL-2015, AKONING

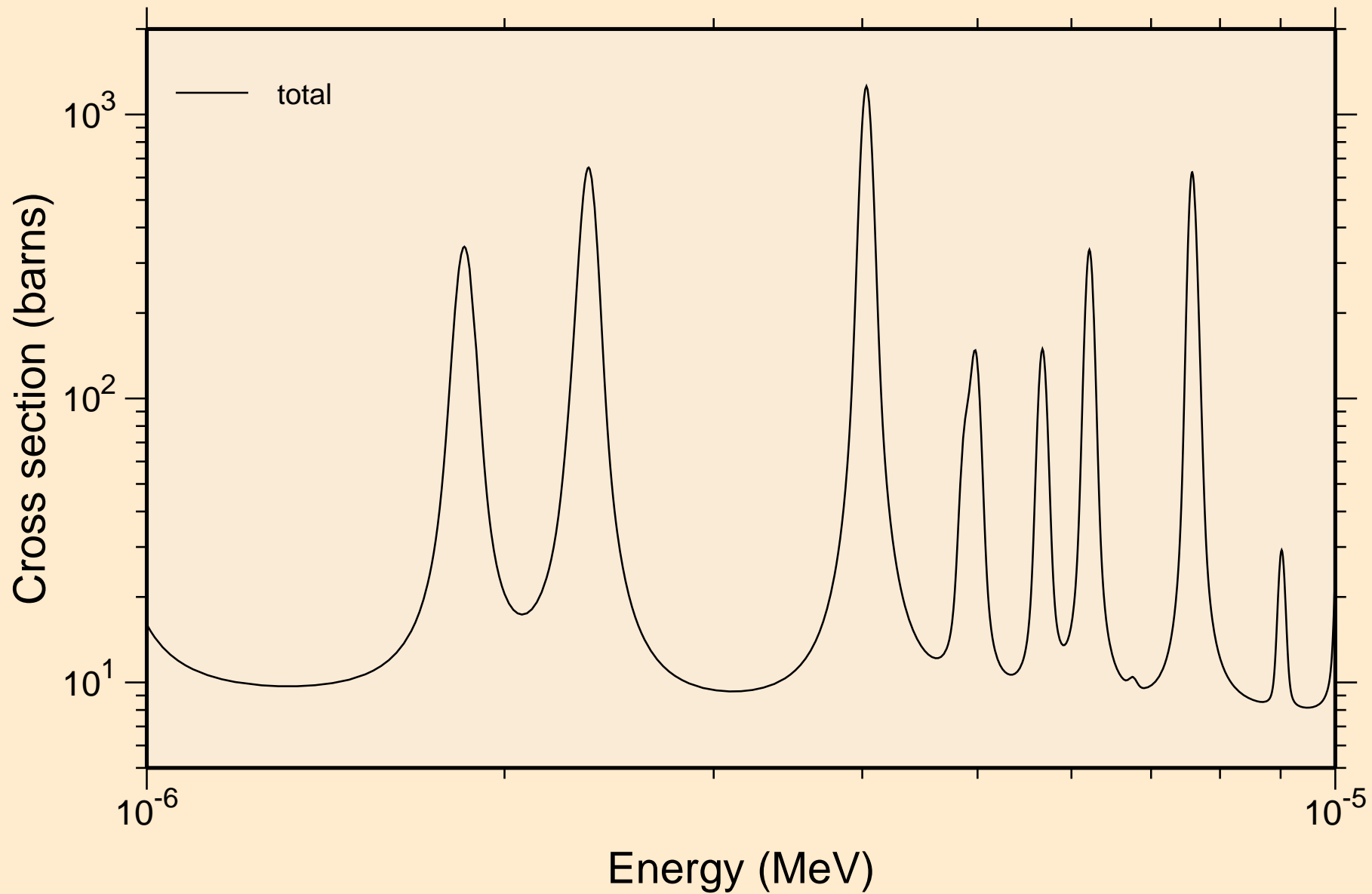
## Principal cross sections



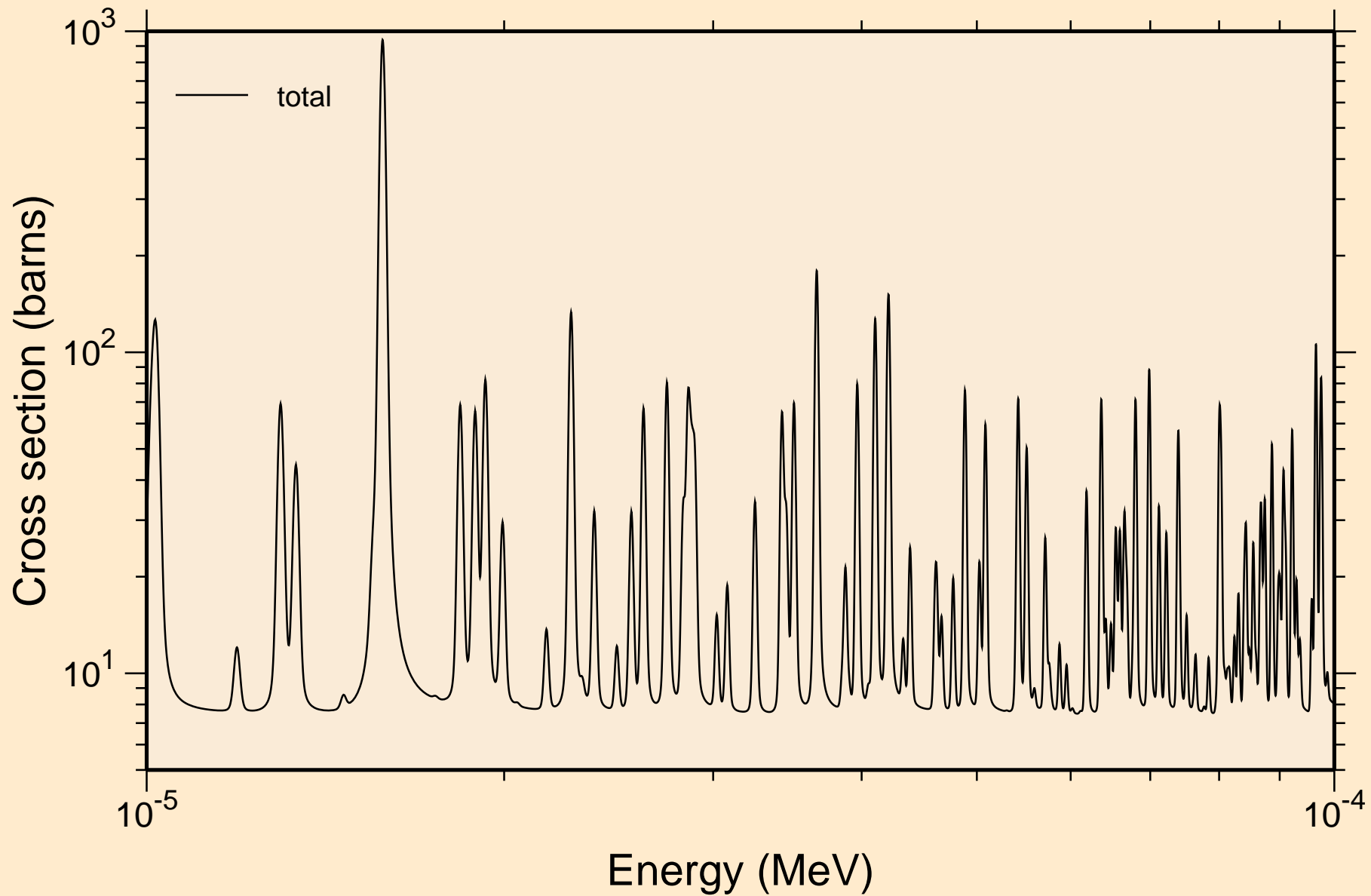
IR190M NRG TENDL-2015, AKONING  
resonance total cross section



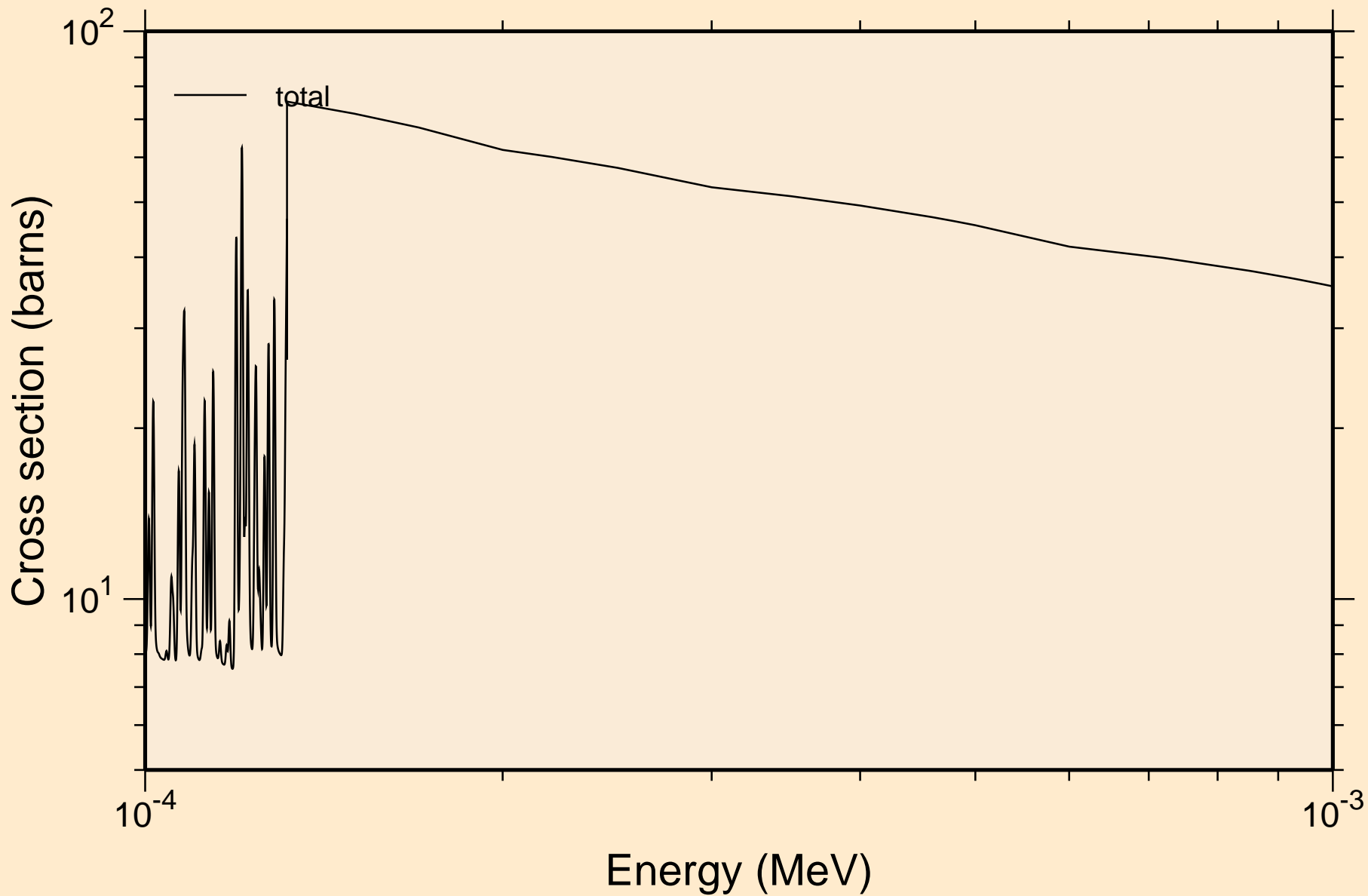
IR190M NRG TENDL-2015, AKONING  
resonance total cross section



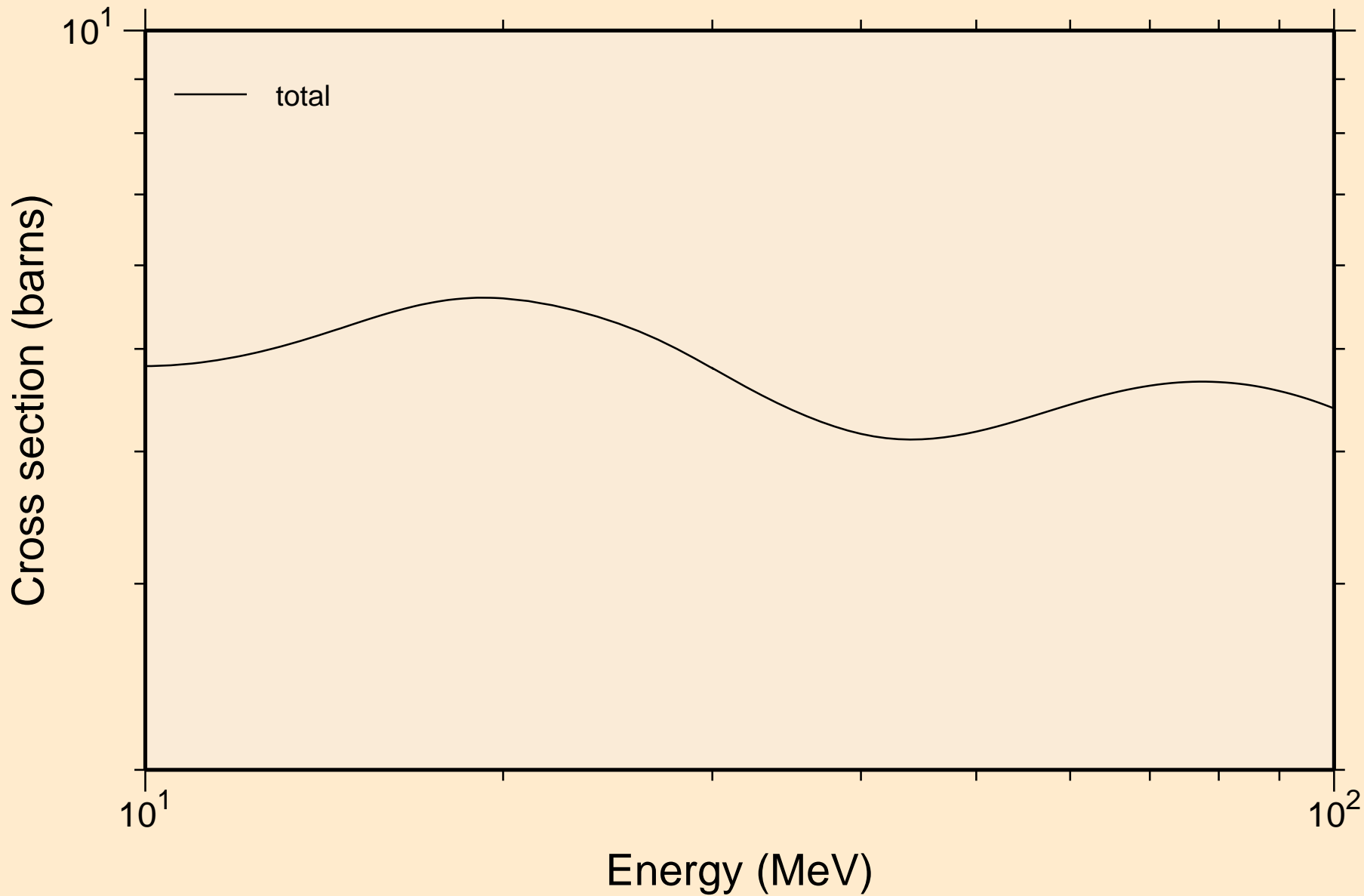
IR190M NRG TENDL-2015, AKONING  
resonance total cross section



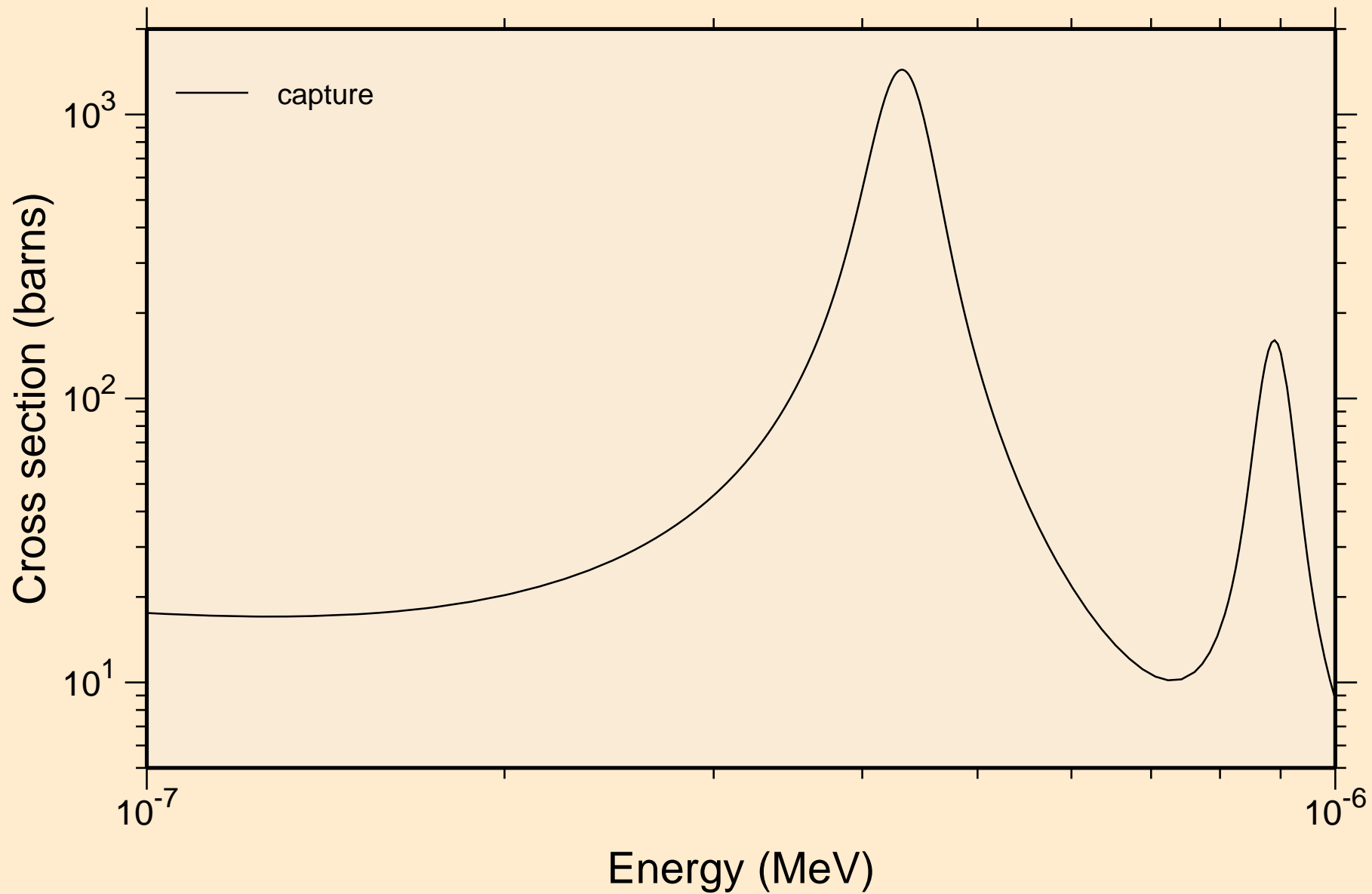
IR190M NRG TENDL-2015, AKONING  
resonance total cross section



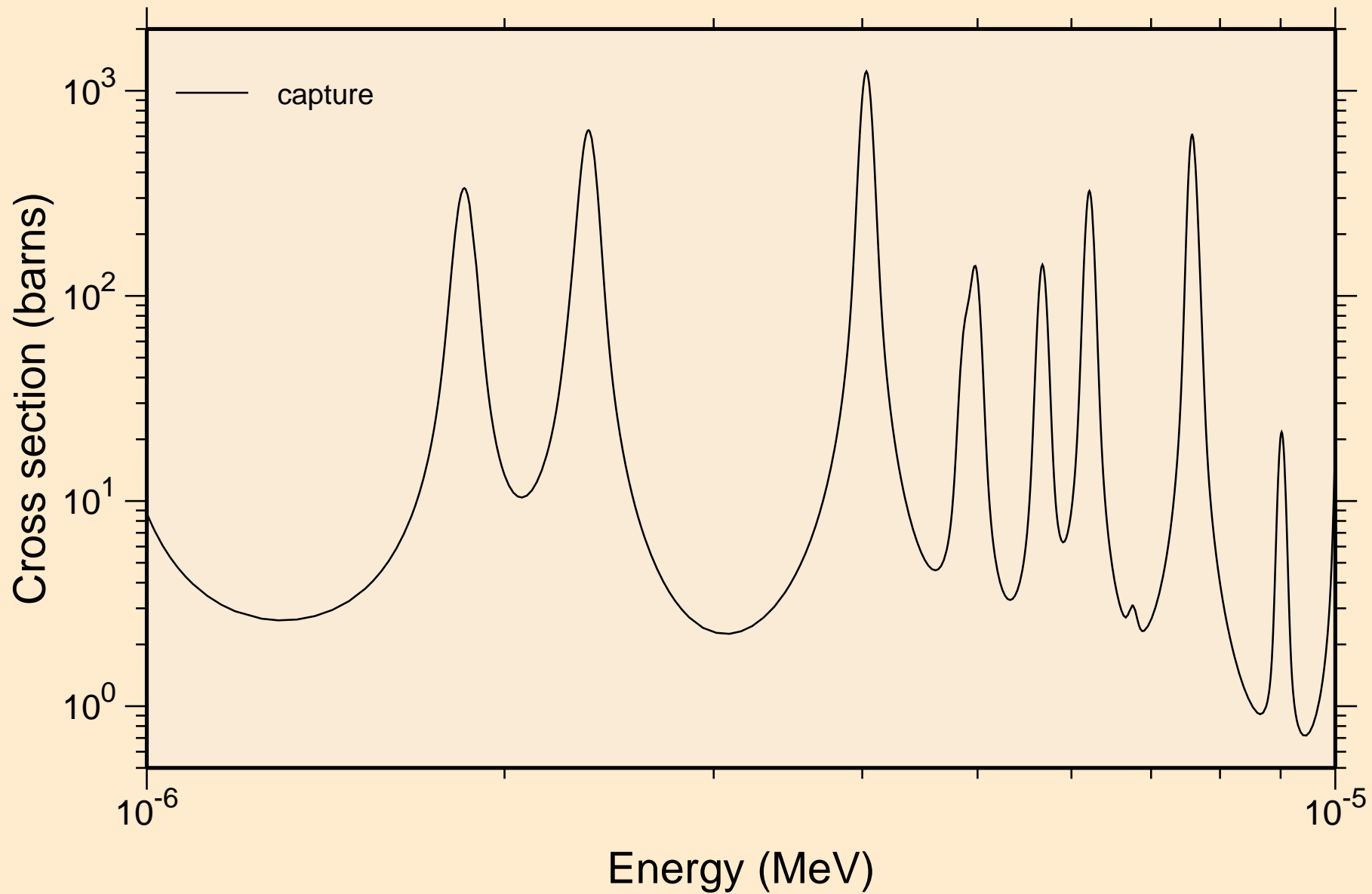
IR190M NRG TENDL-2015, AKONING  
resonance total cross section



IR190M NRG TENDL-2015, AKONING  
resonance absorption cross sections

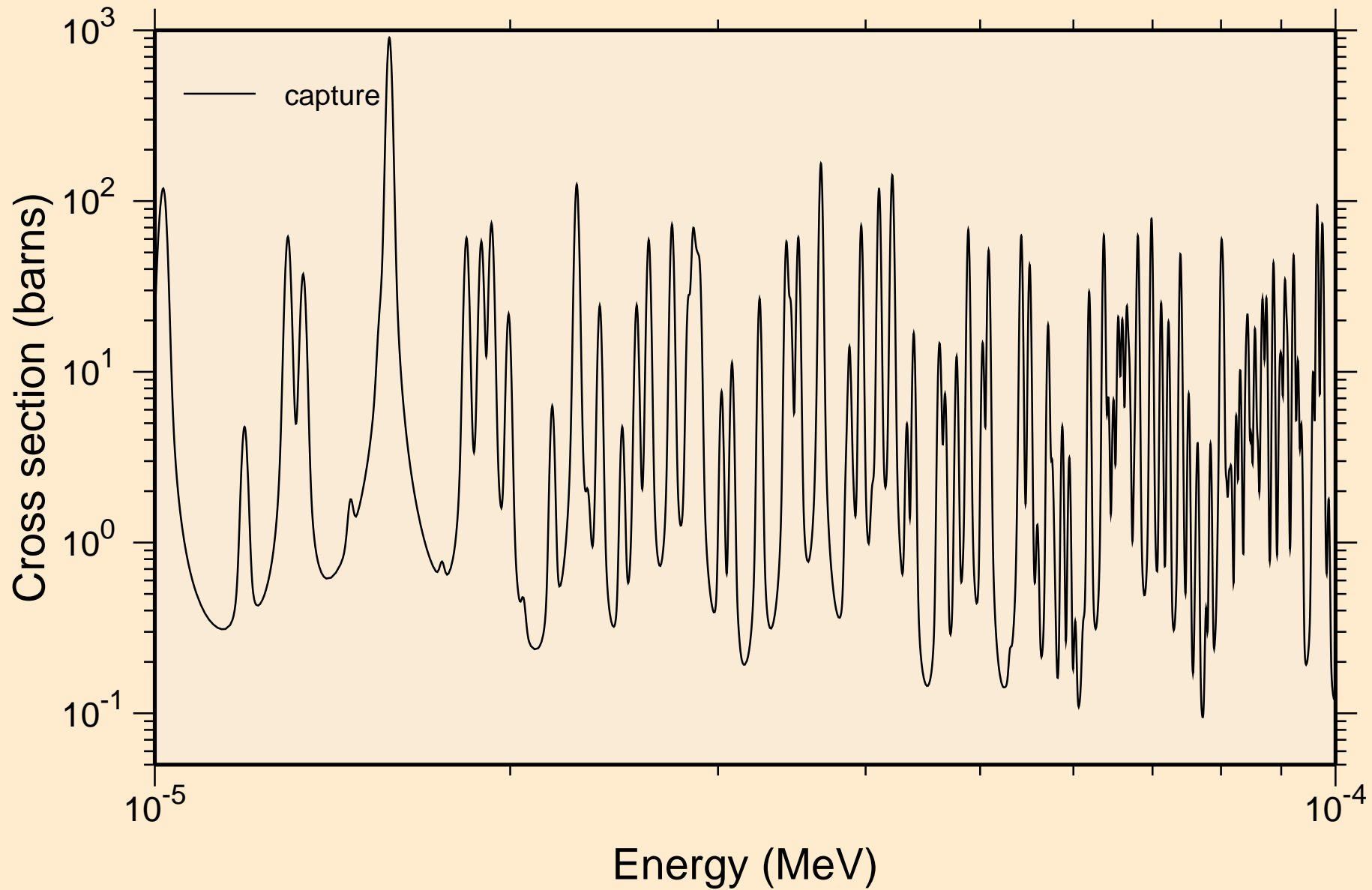


IR190M NRG TENDL-2015, AKONING  
resonance absorption cross sections

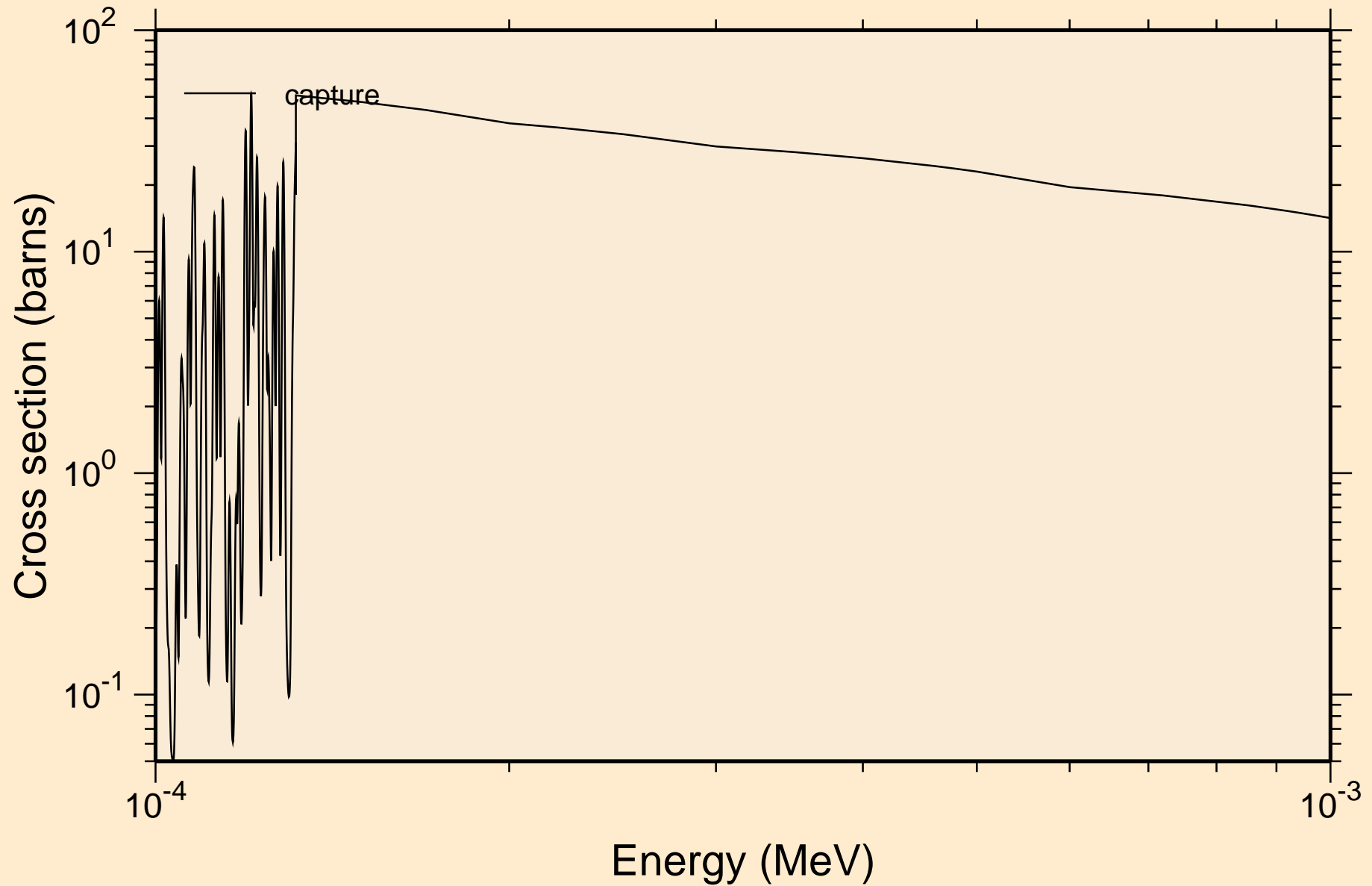




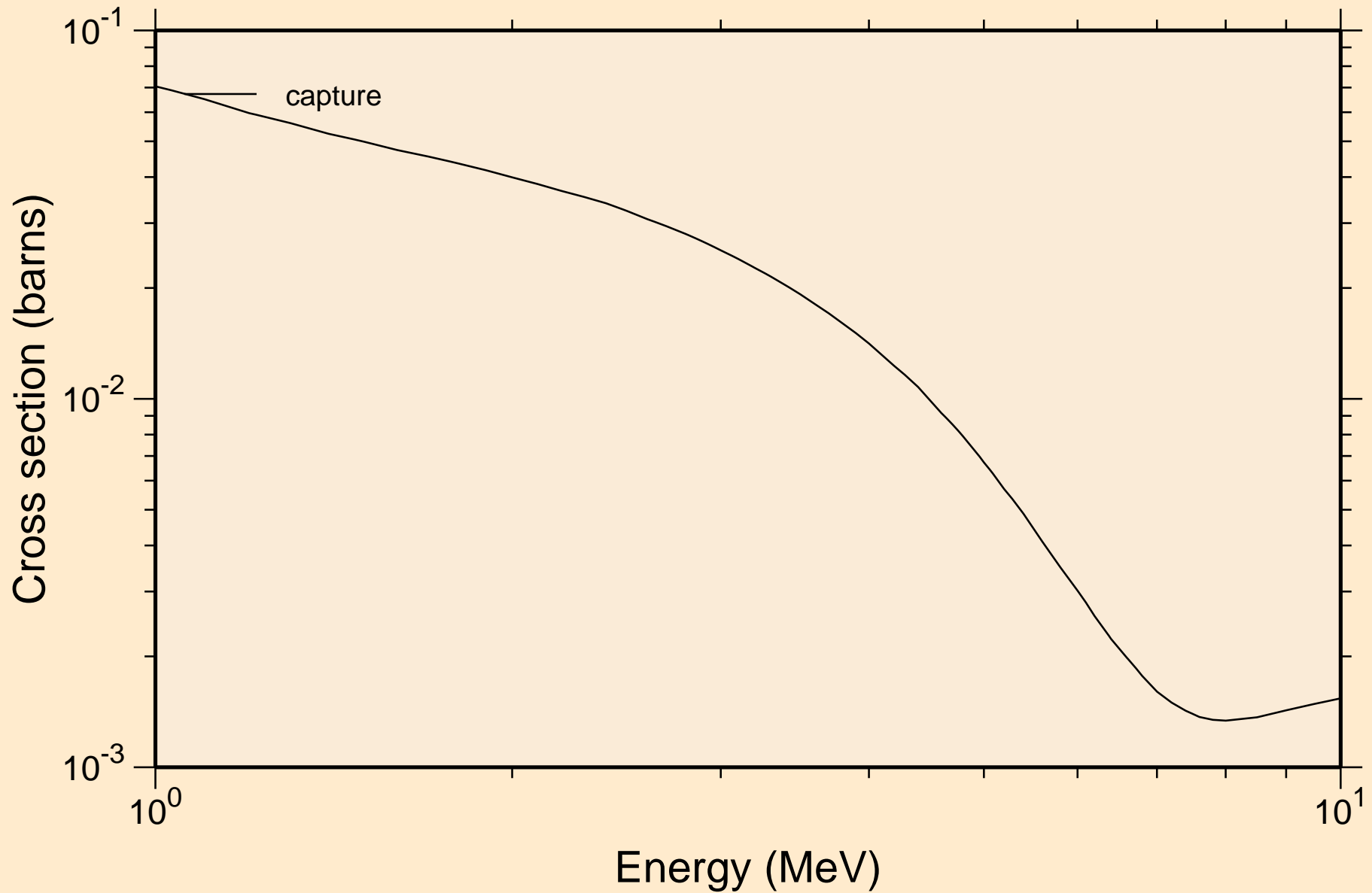
IR190M NRG TENDL-2015, AKONING  
resonance absorption cross sections



IR190M NRG TENDL-2015, AKONING  
resonance absorption cross sections

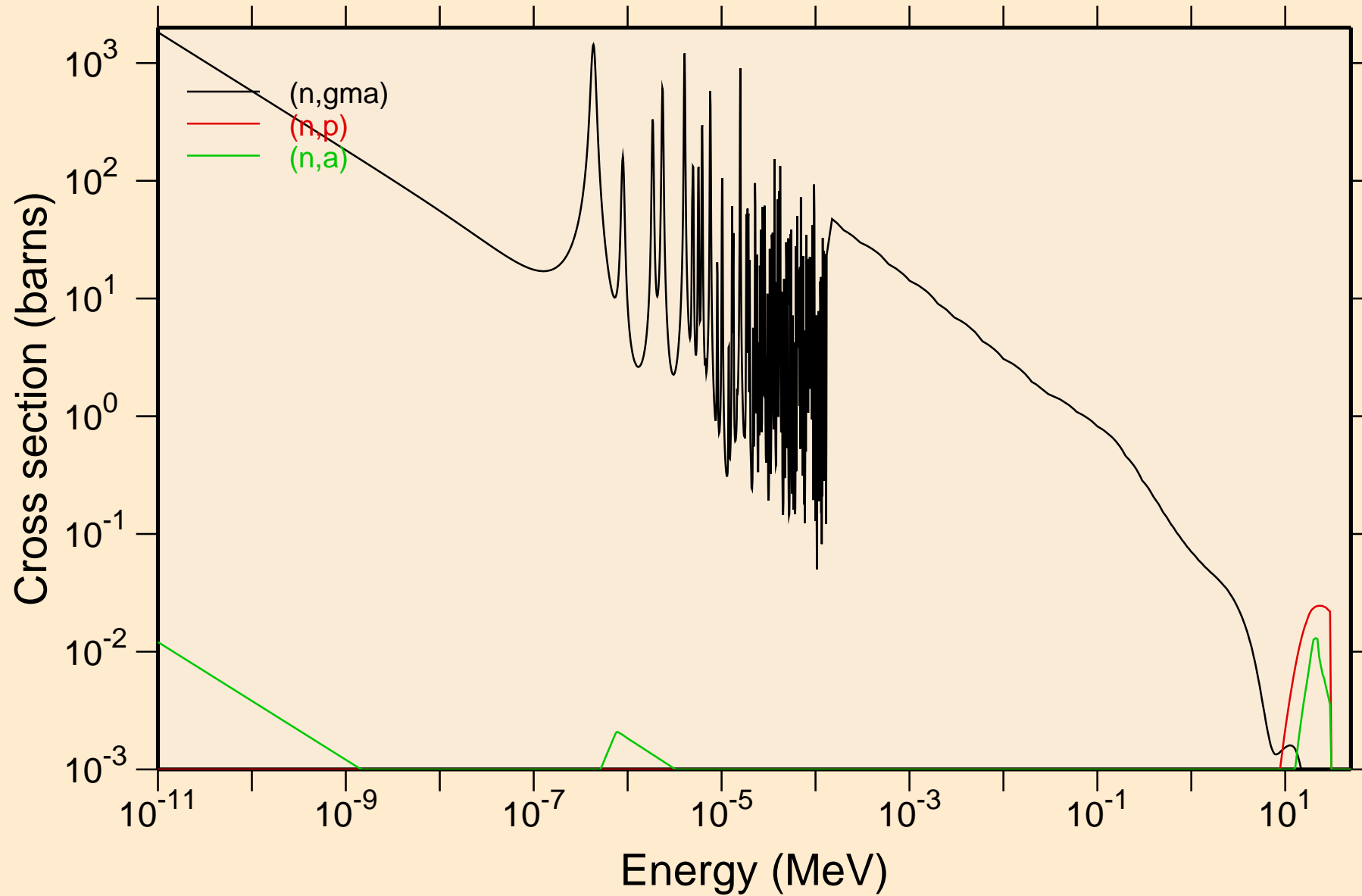


IR190M NRG TENDL-2015, AKONING  
resonance absorption cross sections



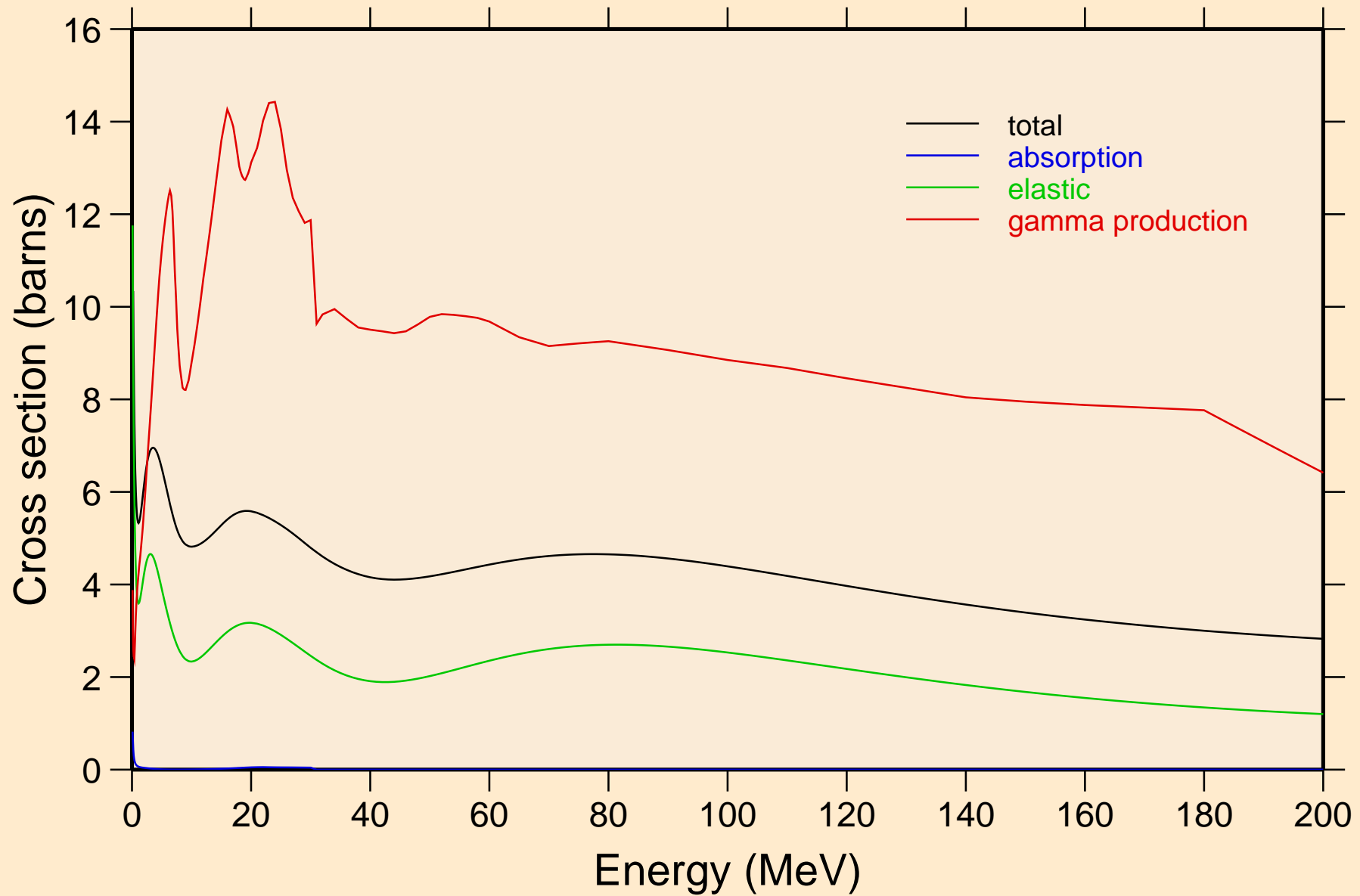
# IR190M NRG TENDL-2015, AKONING

## Non-threshold reactions



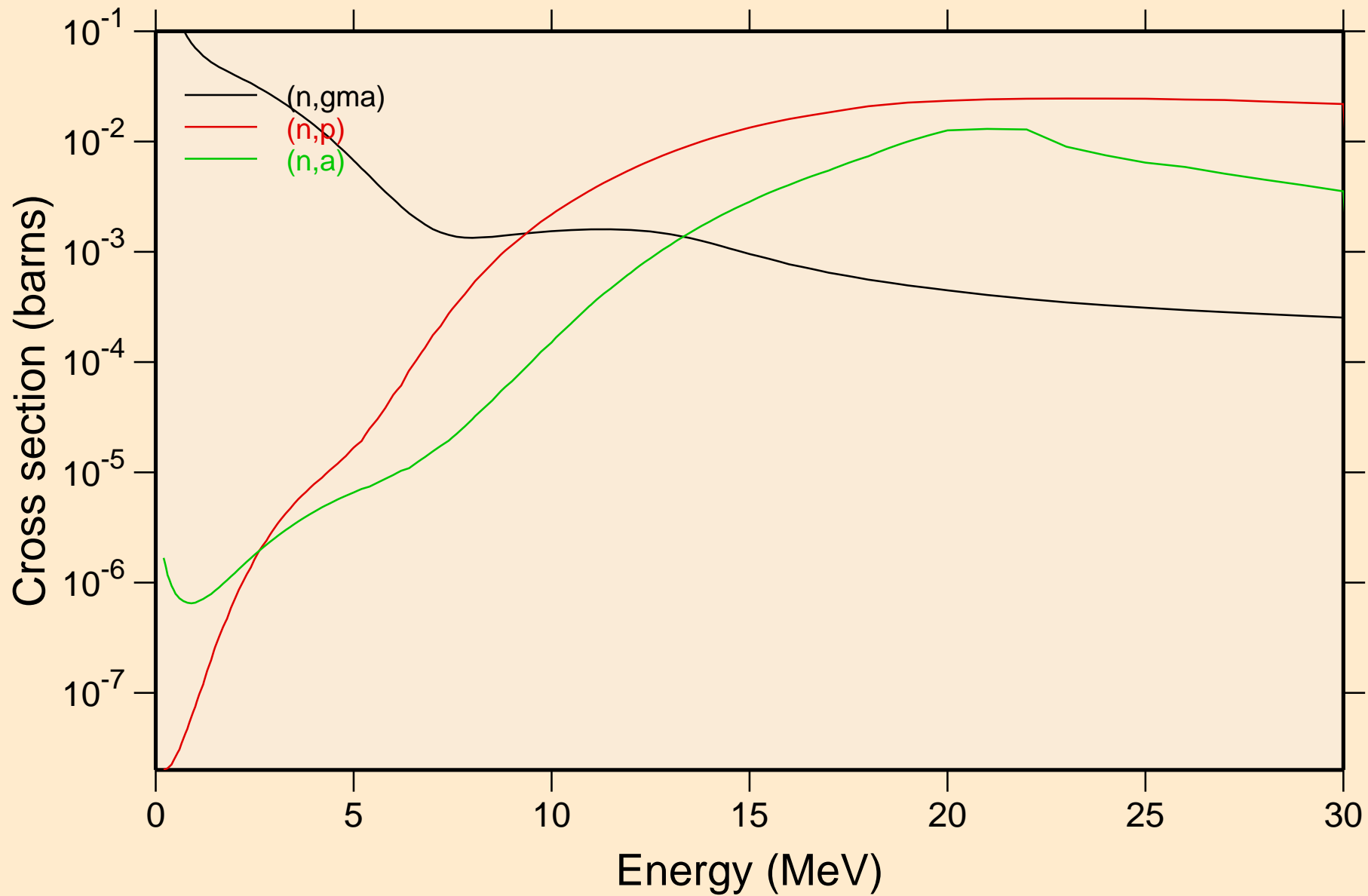
# IR190M NRG TENDL-2015, AKONING

## Principal cross sections



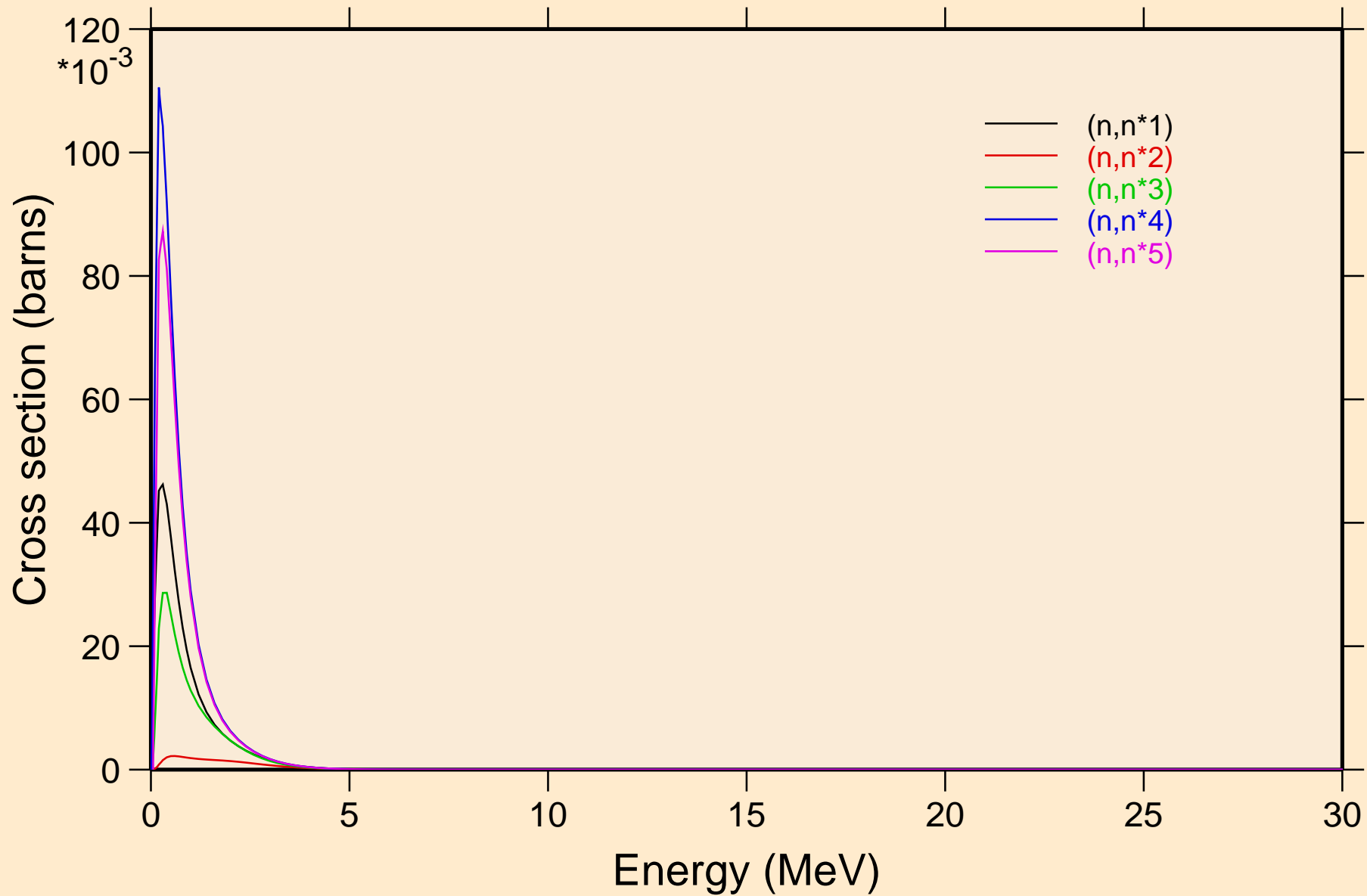
# IR190M NRG TENDL-2015, AKONING

## Non-threshold reactions



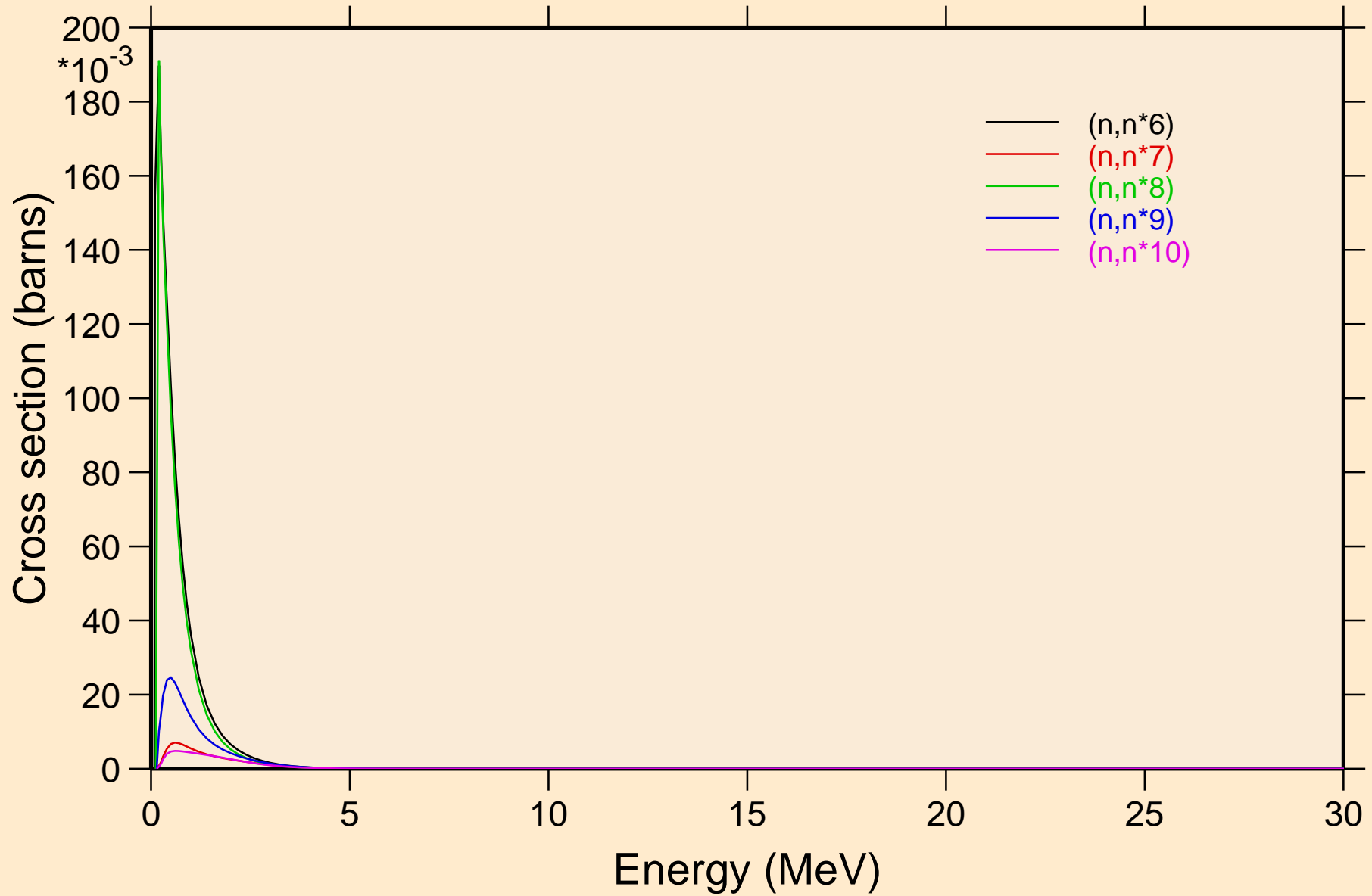
# IR190M NRG TENDL-2015, AKONING

## Inelastic levels



# IR190M NRG TENDL-2015, AKONING

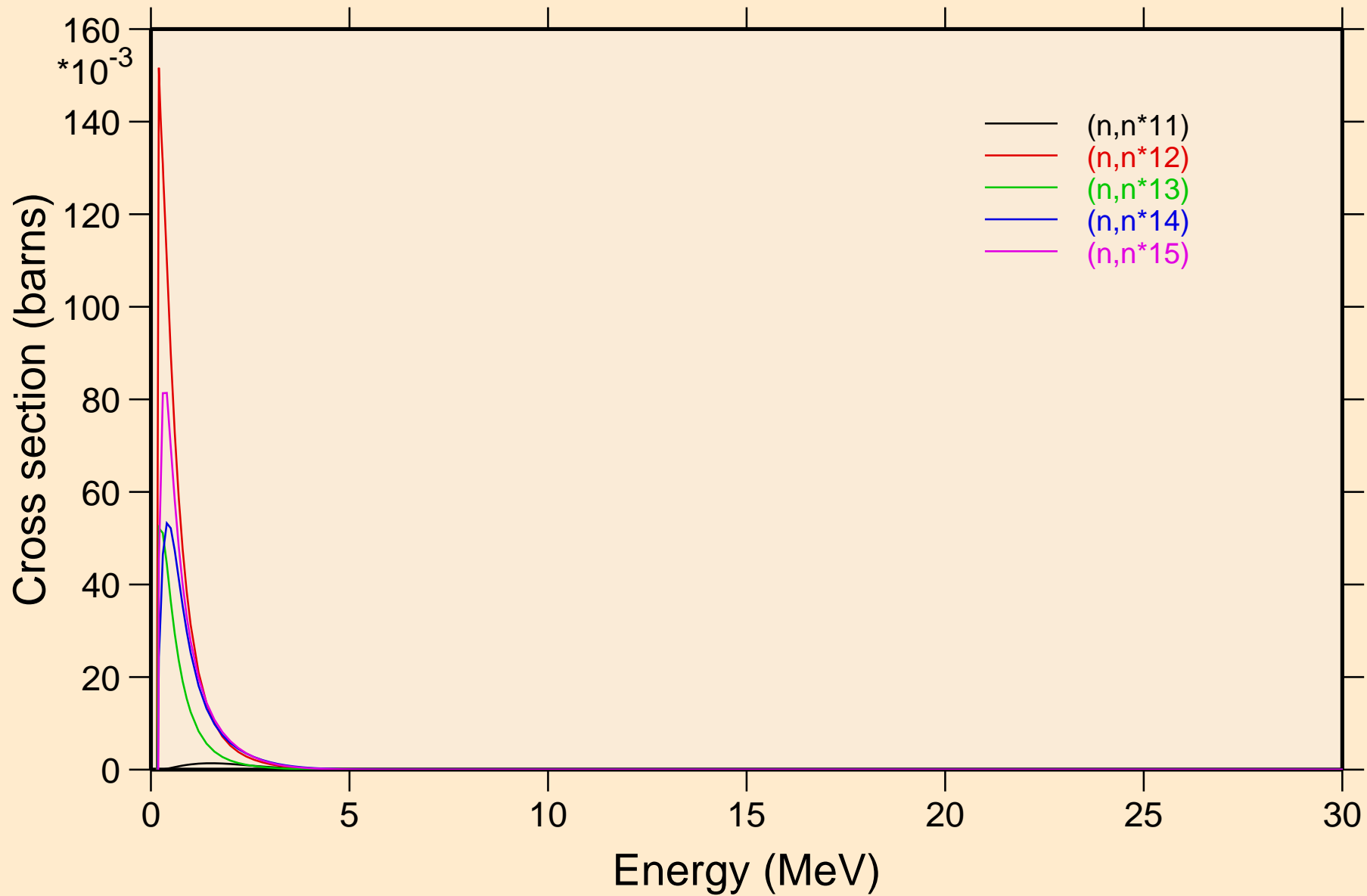
## Inelastic levels





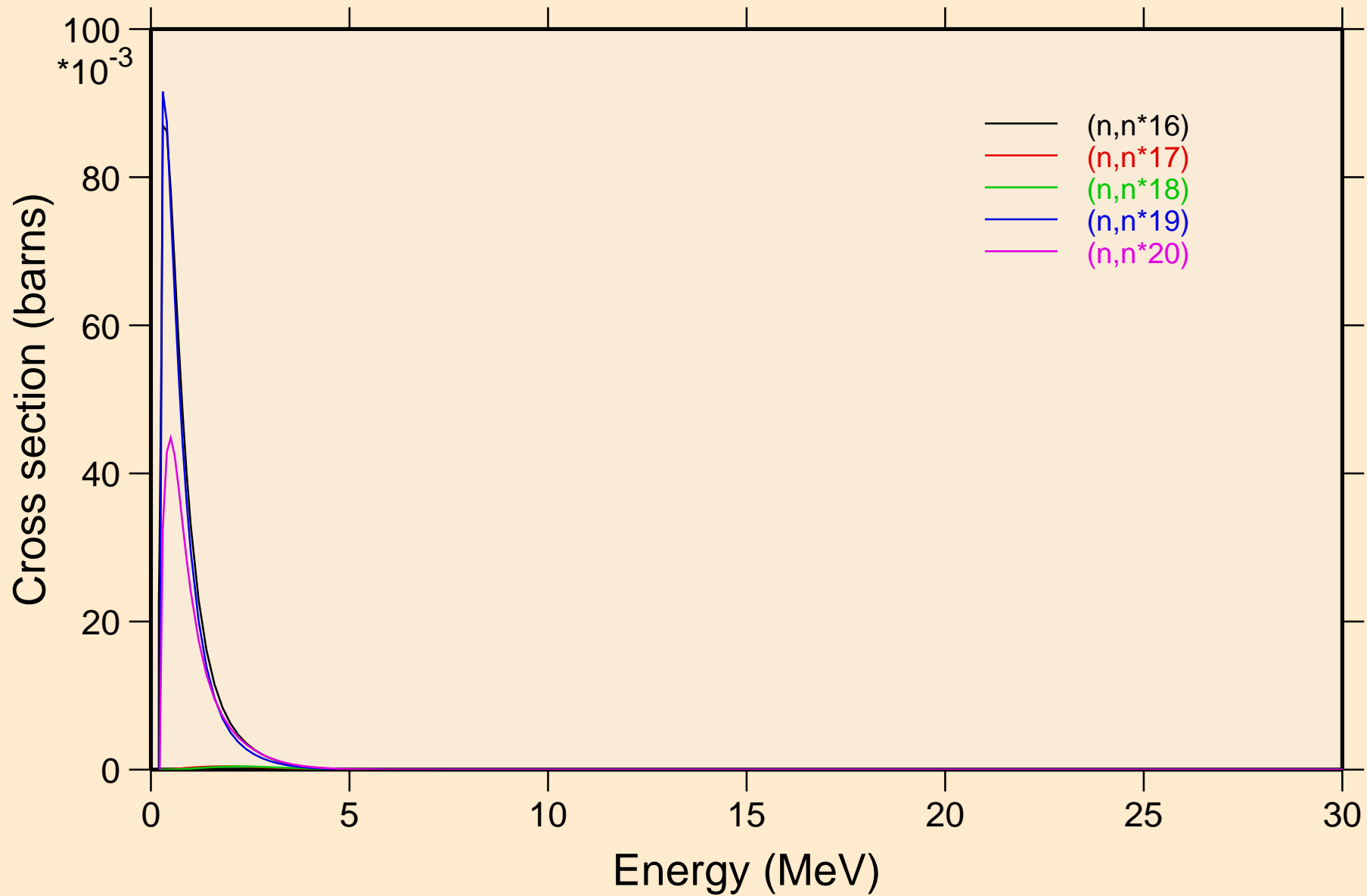
# IR190M NRG TENDL-2015, AKONING

## Inelastic levels



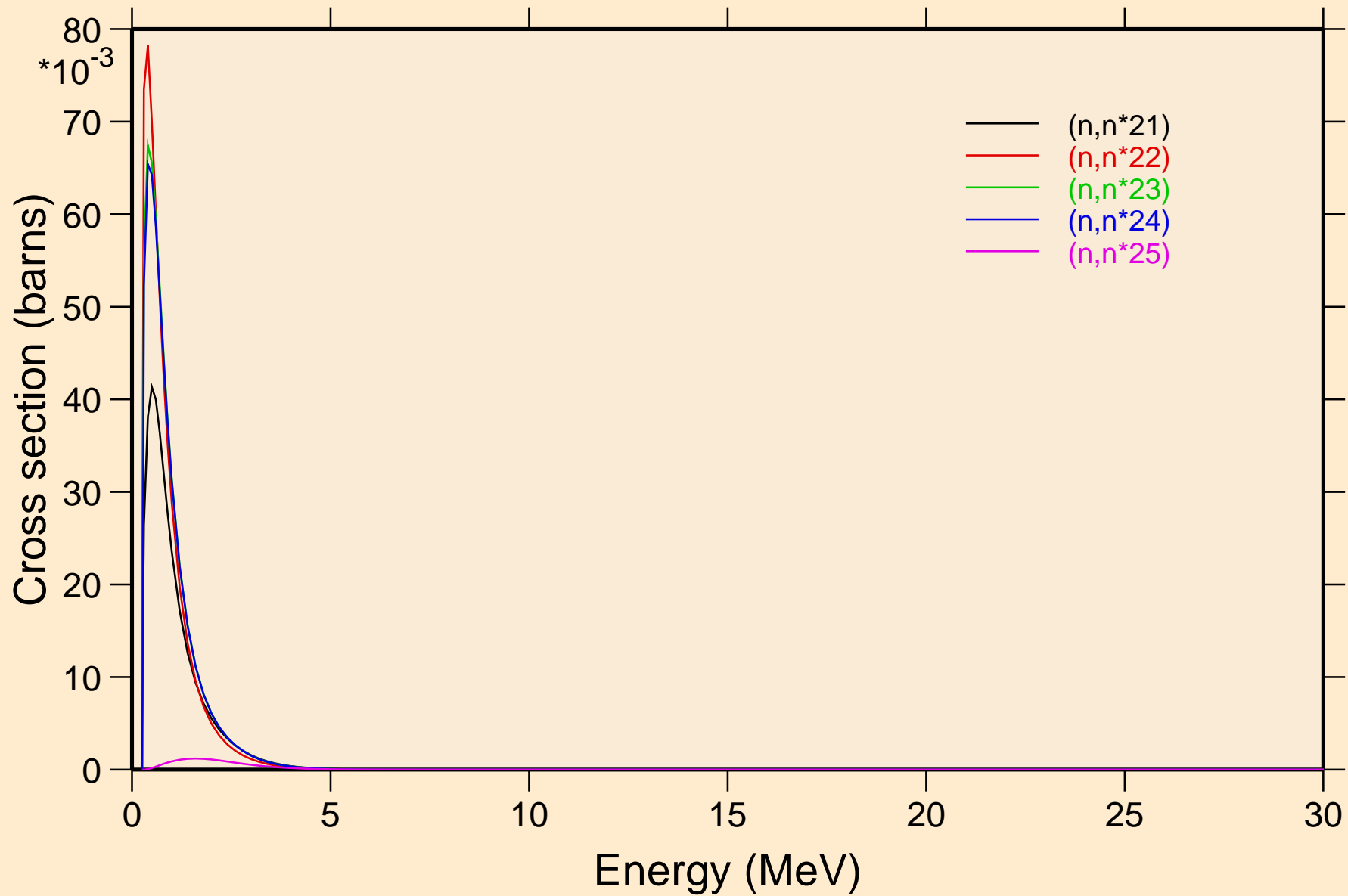
# IR190M NRG TENDL-2015, AKONING

## Inelastic levels

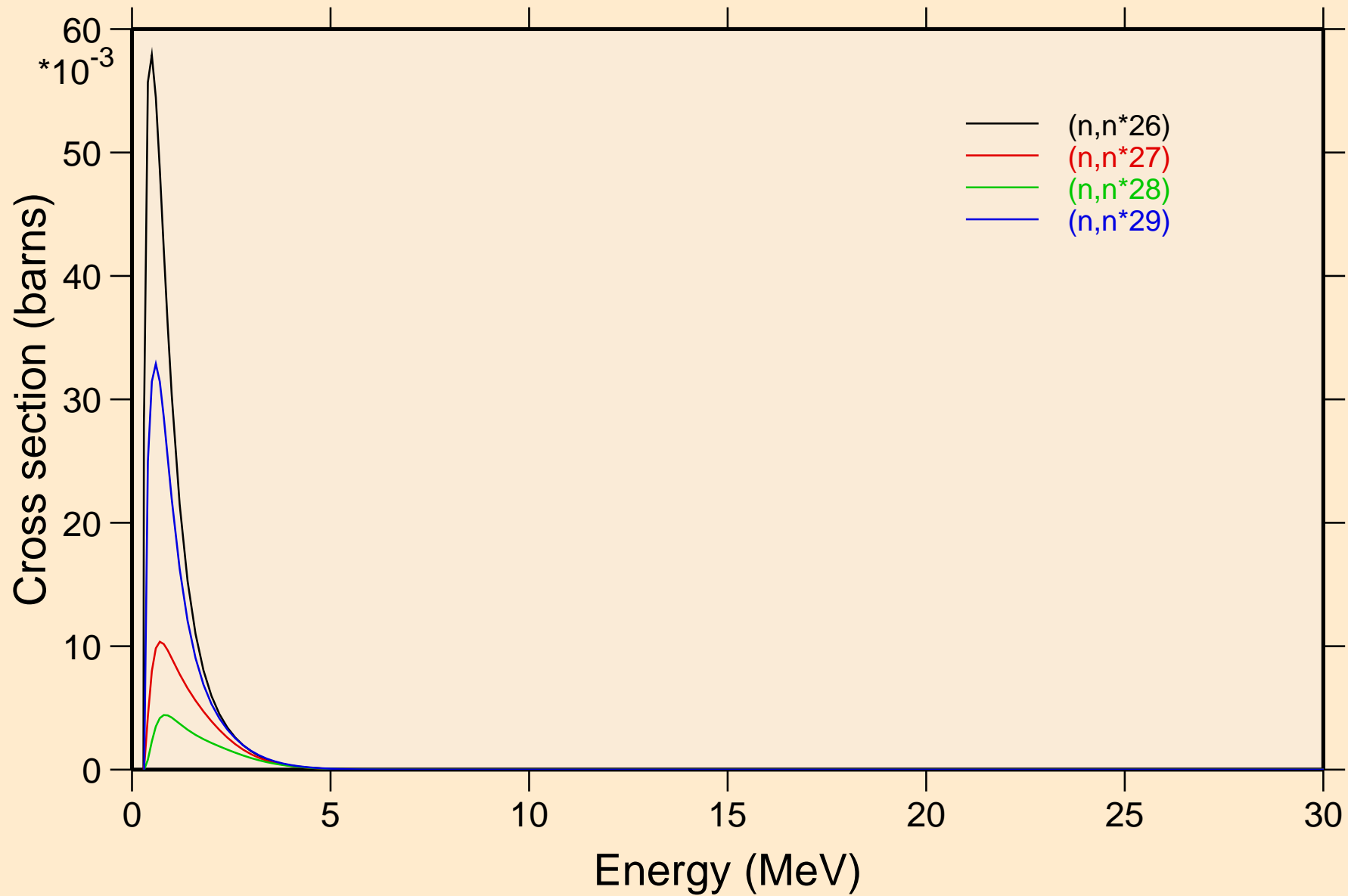


# IR190M NRG TENDL-2015, AKONING

## Inelastic levels

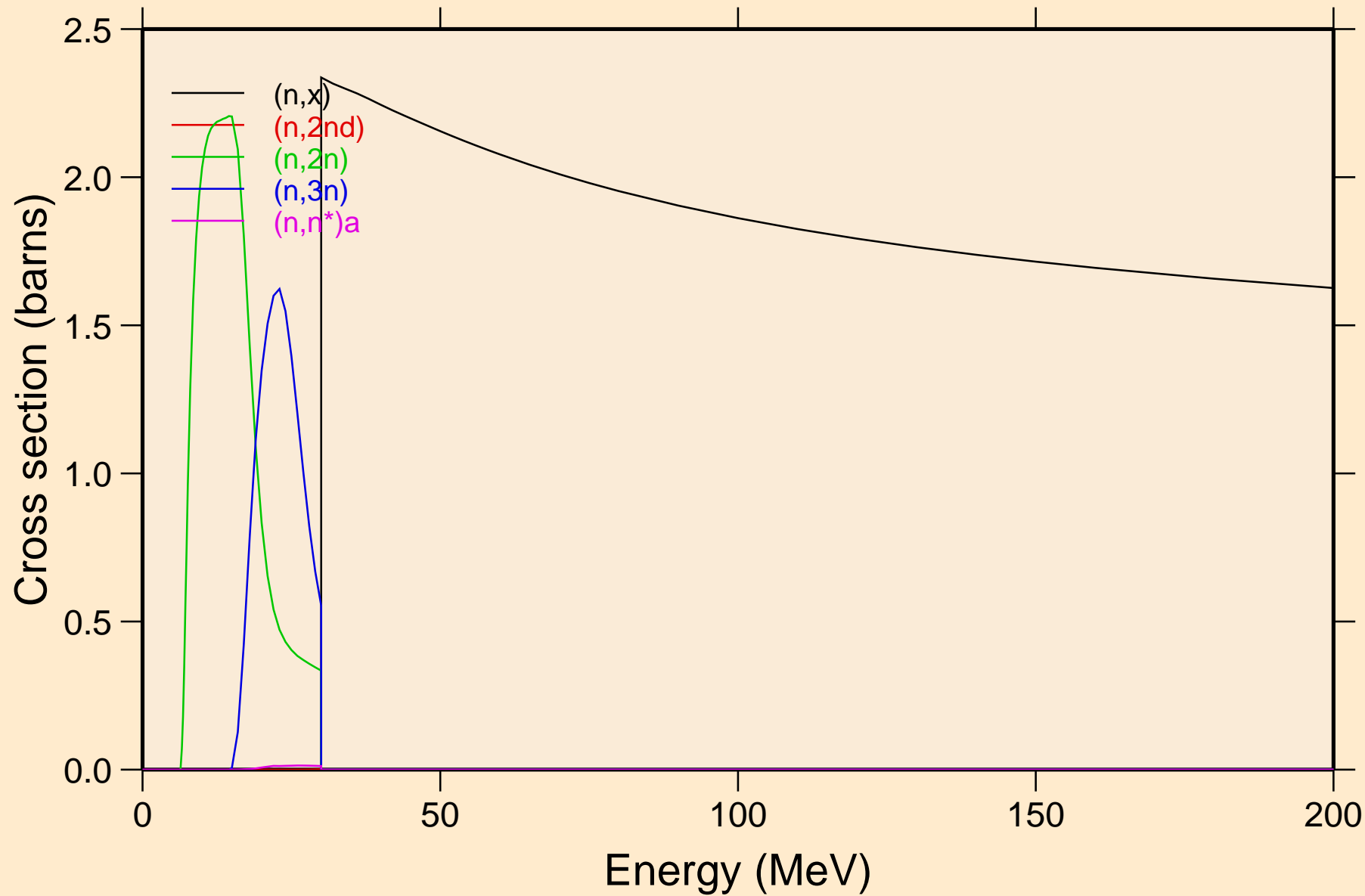


IR190M NRG TENDL-2015, AKONING  
Inelastic levels



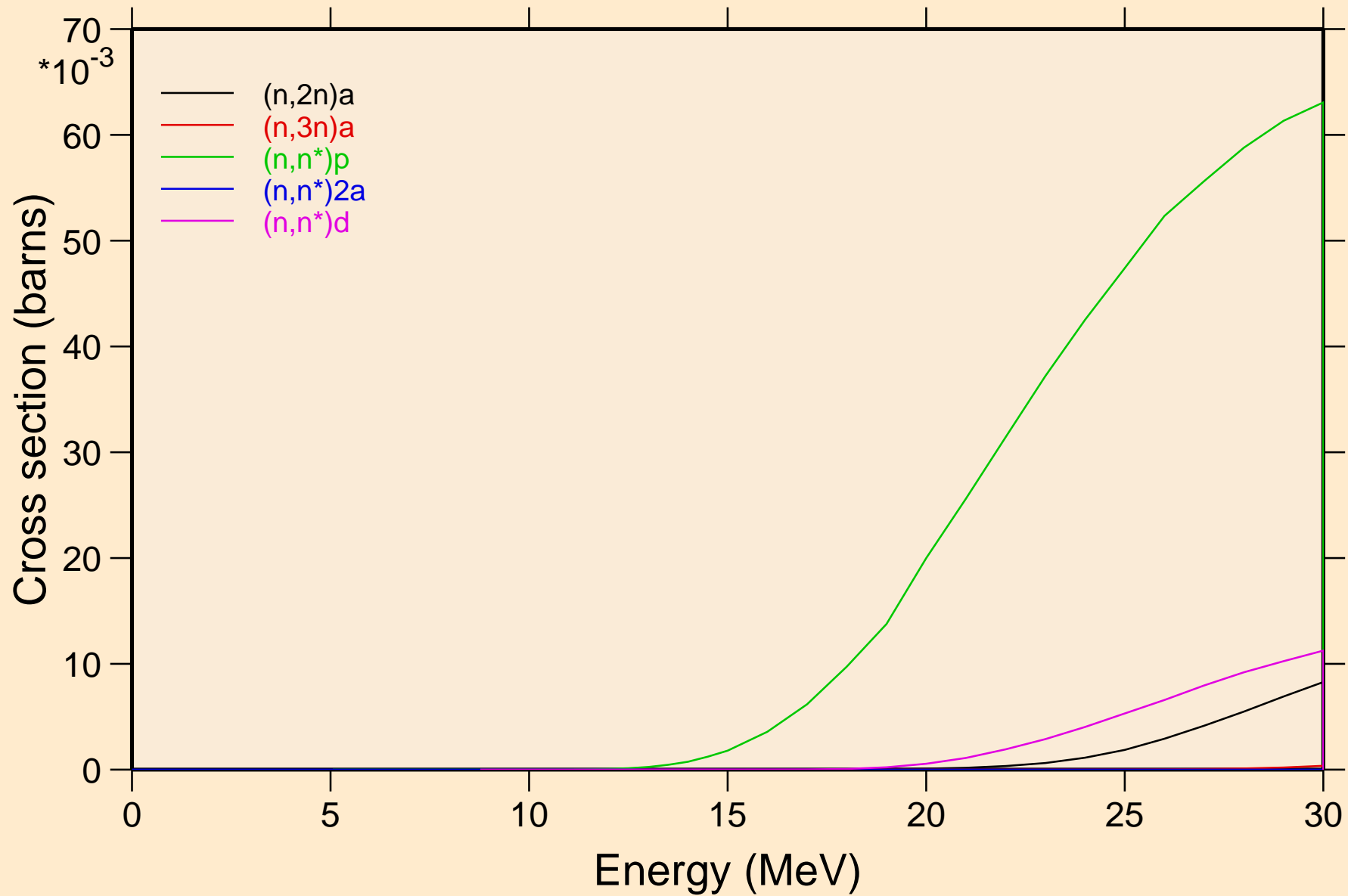
# IR190M NRG TENDL-2015, AKONING

## Threshold reactions



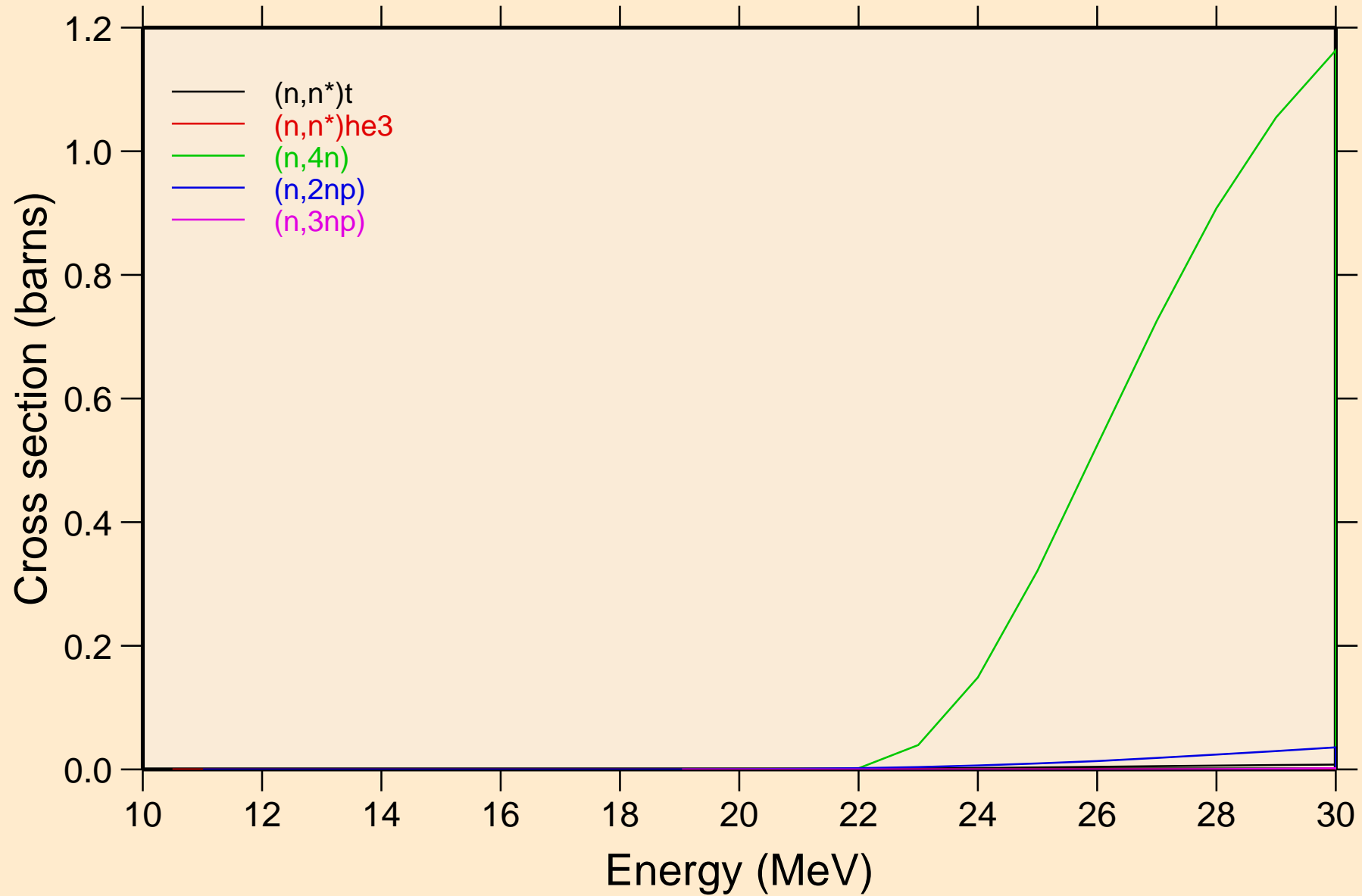
# IR190M NRG TENDL-2015, AKONING

## Threshold reactions



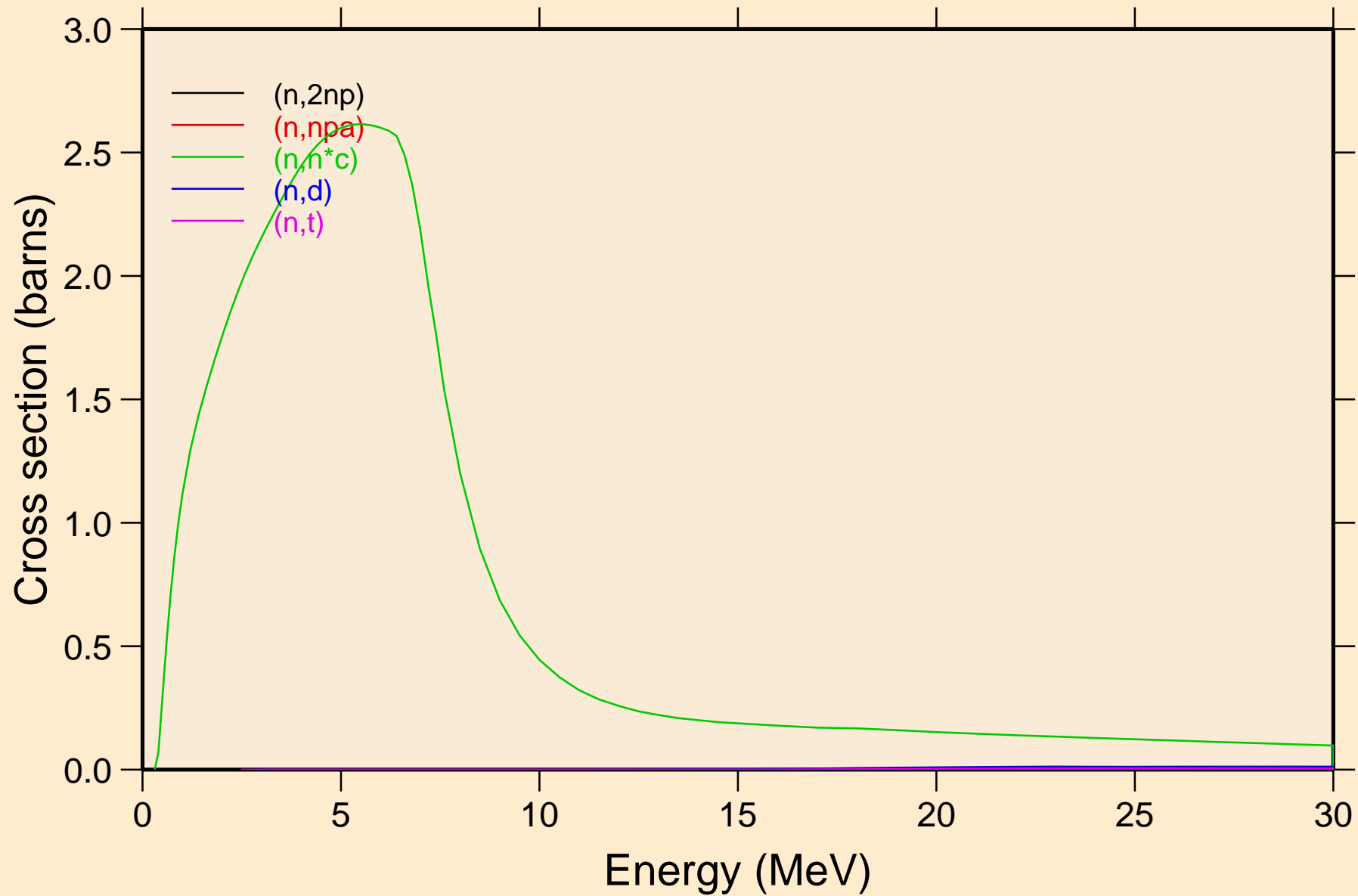
# IR190M NRG TENDL-2015, AKONING

## Threshold reactions



# IR190M NRG TENDL-2015, AKONING

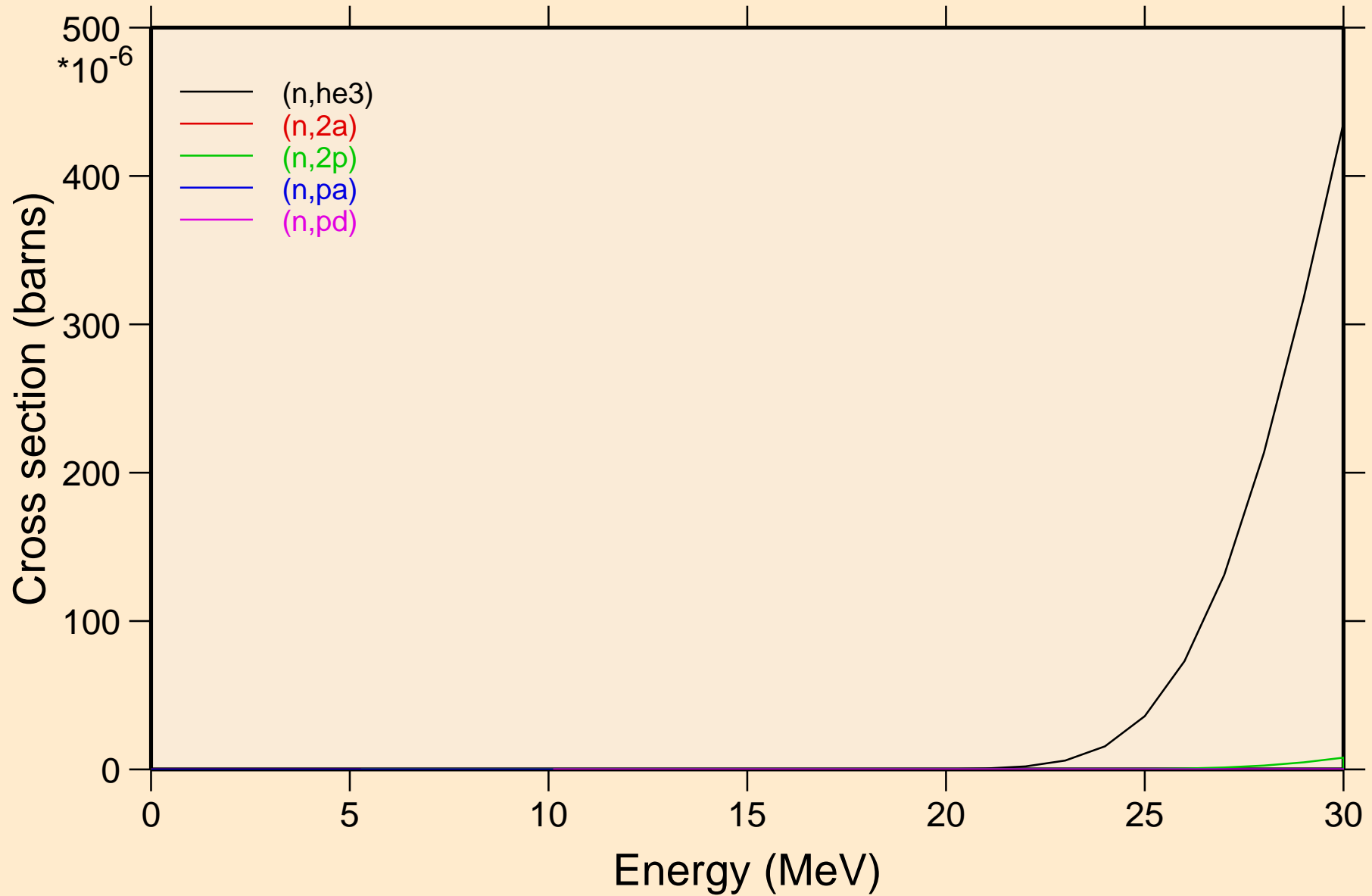
## Threshold reactions





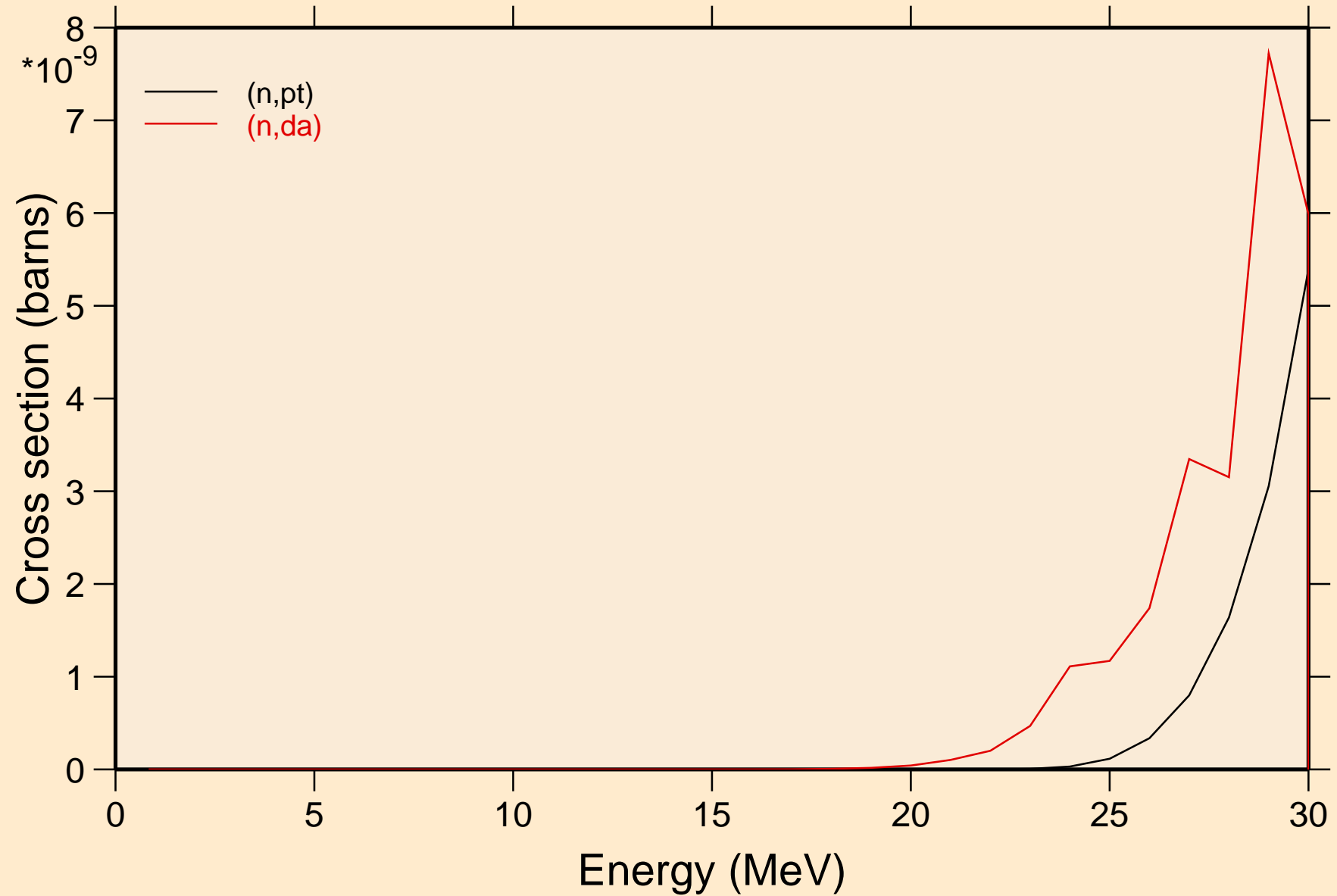
# IR190M NRG TENDL-2015, AKONING

## Threshold reactions

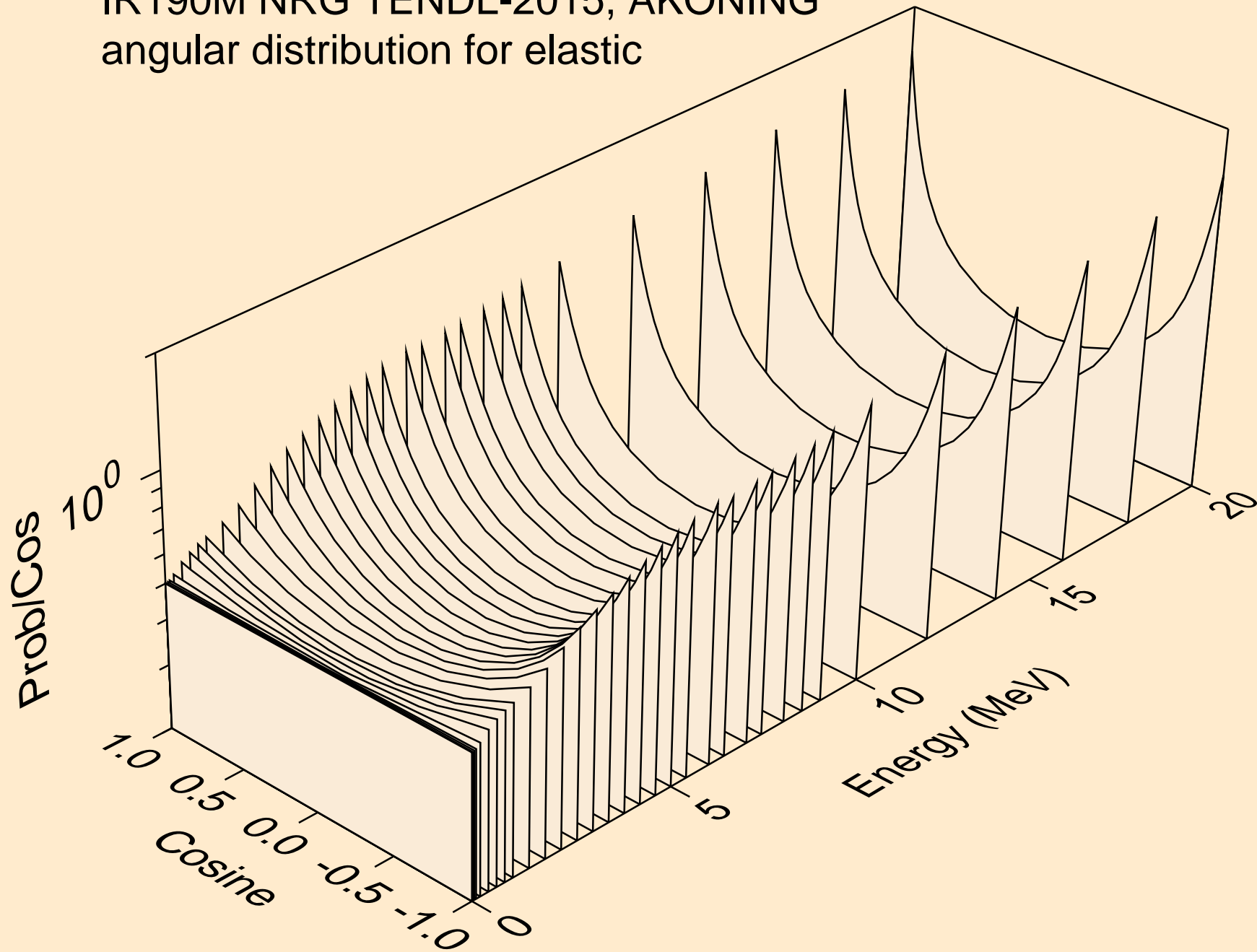


# IR190M NRG TENDL-2015, AKONING

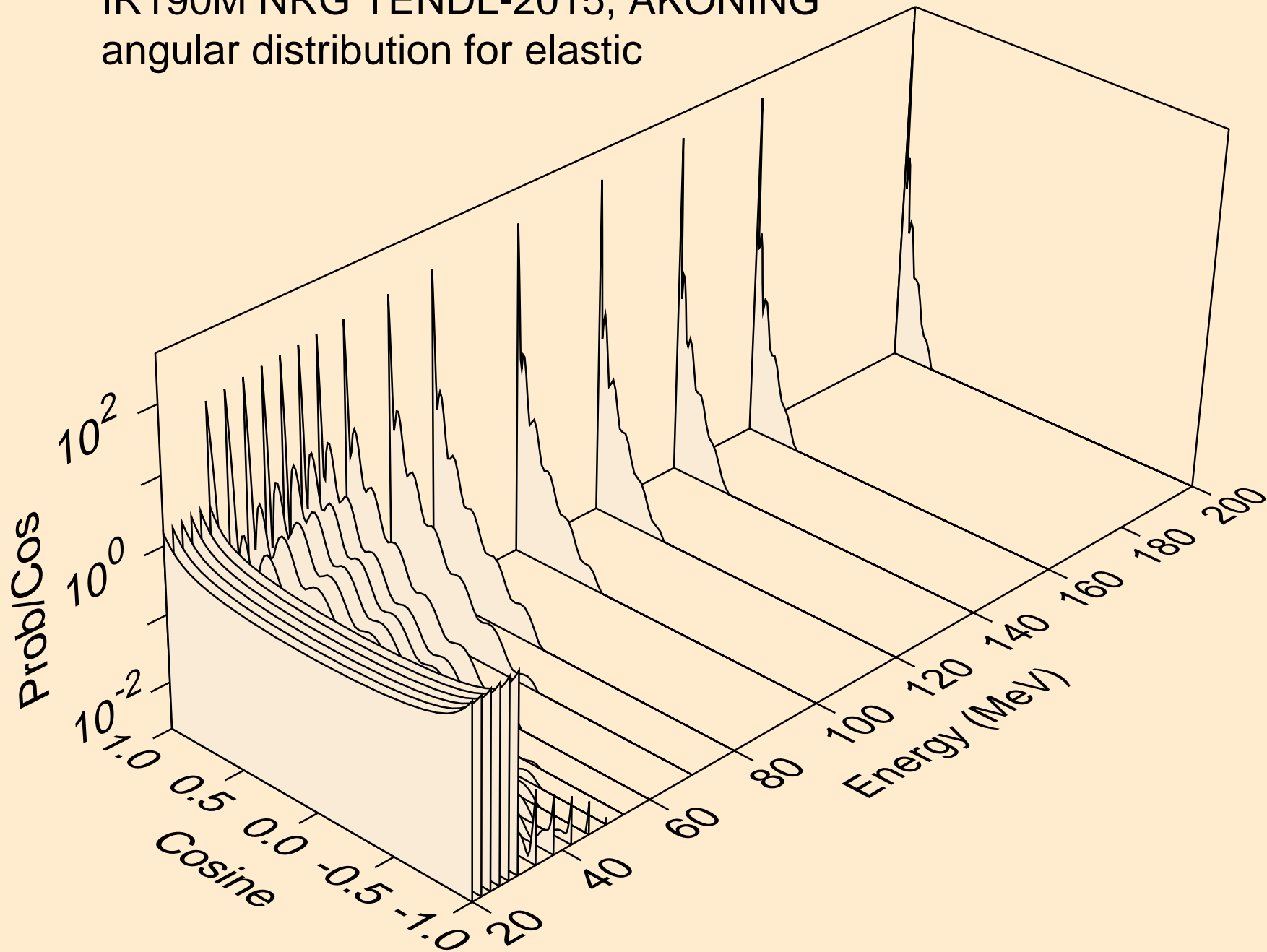
## Threshold reactions



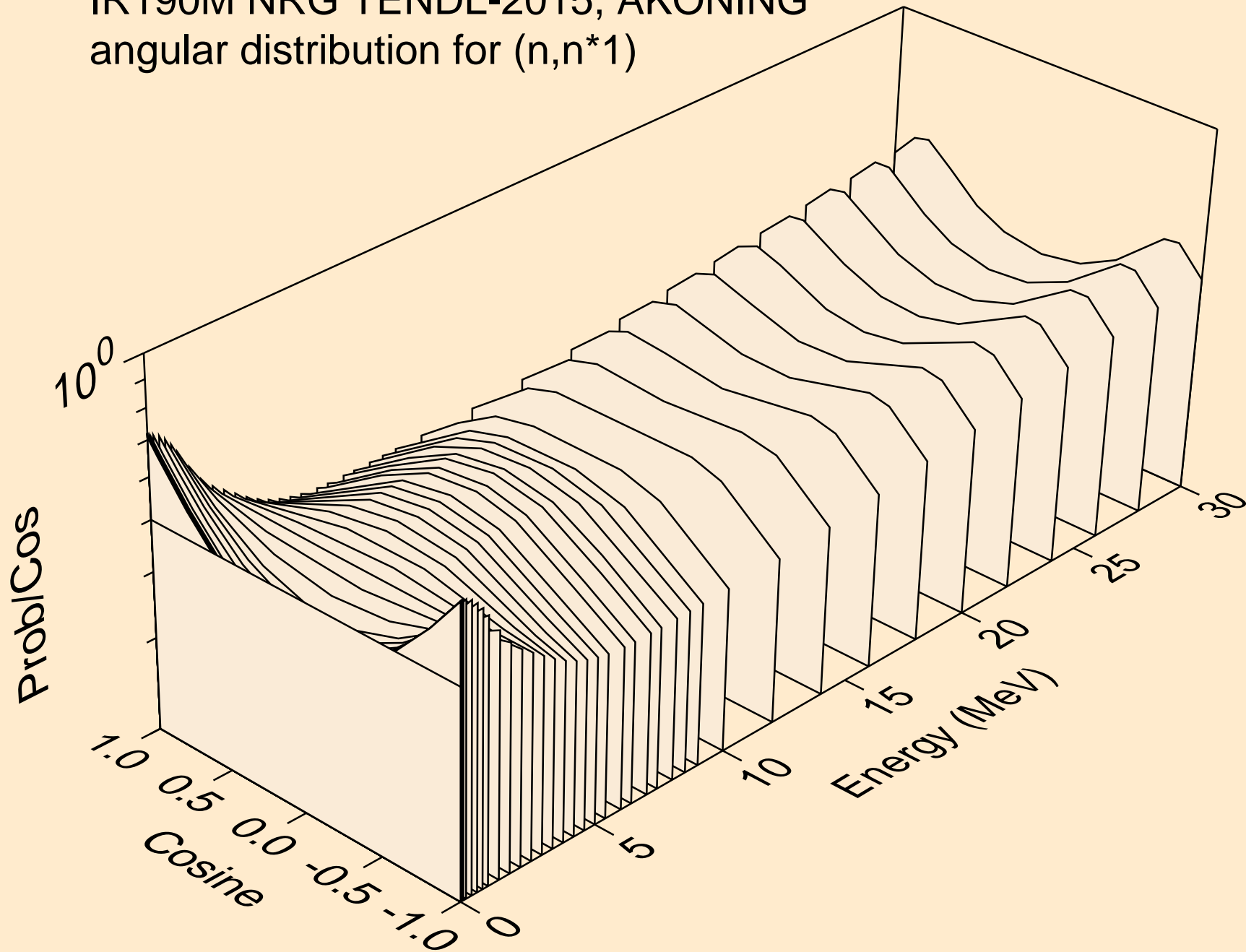
IR190M NRG TENDL-2015, AKONING  
angular distribution for elastic



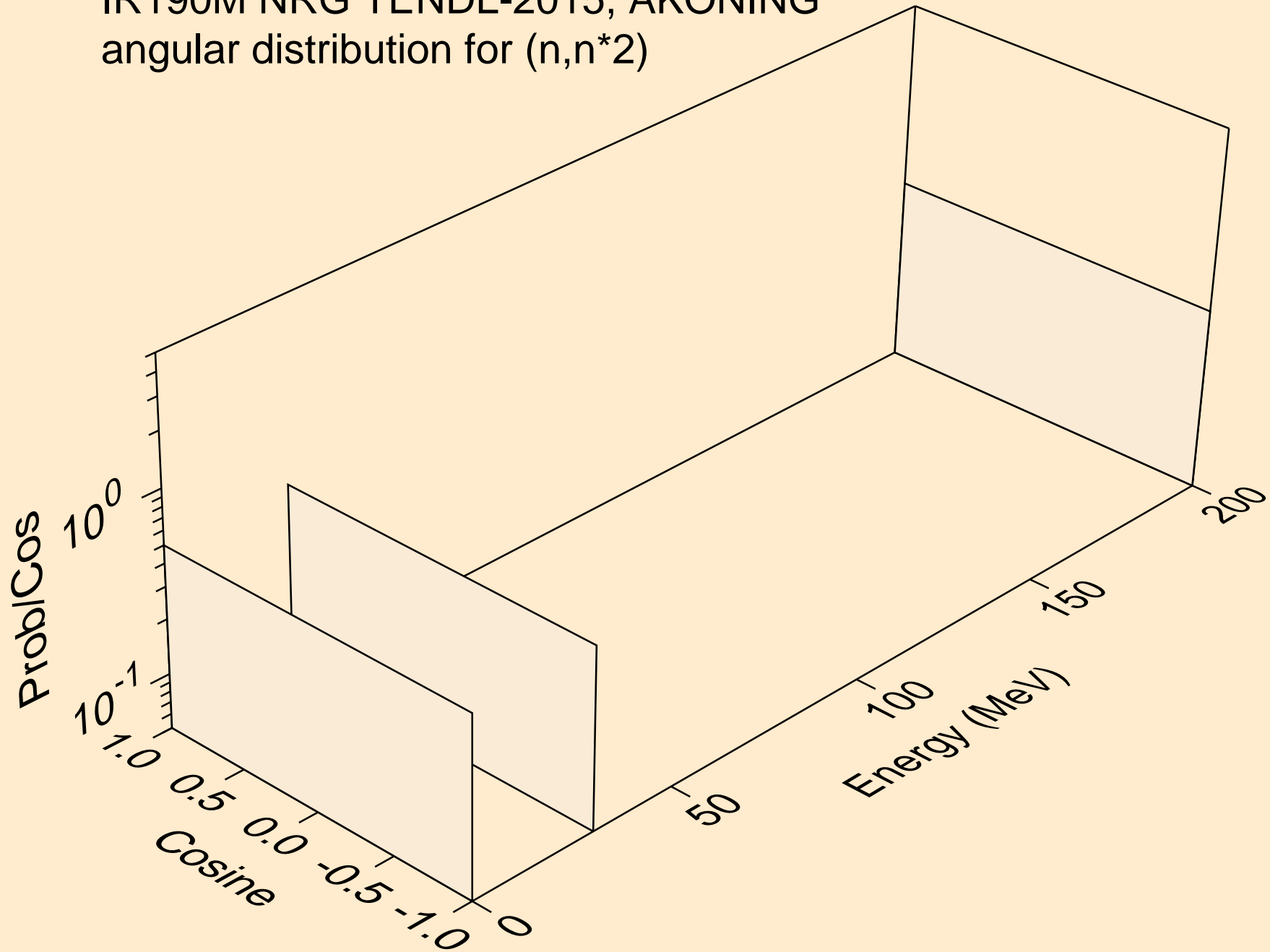
IR190M NRG TENDL-2015, AKONING  
angular distribution for elastic



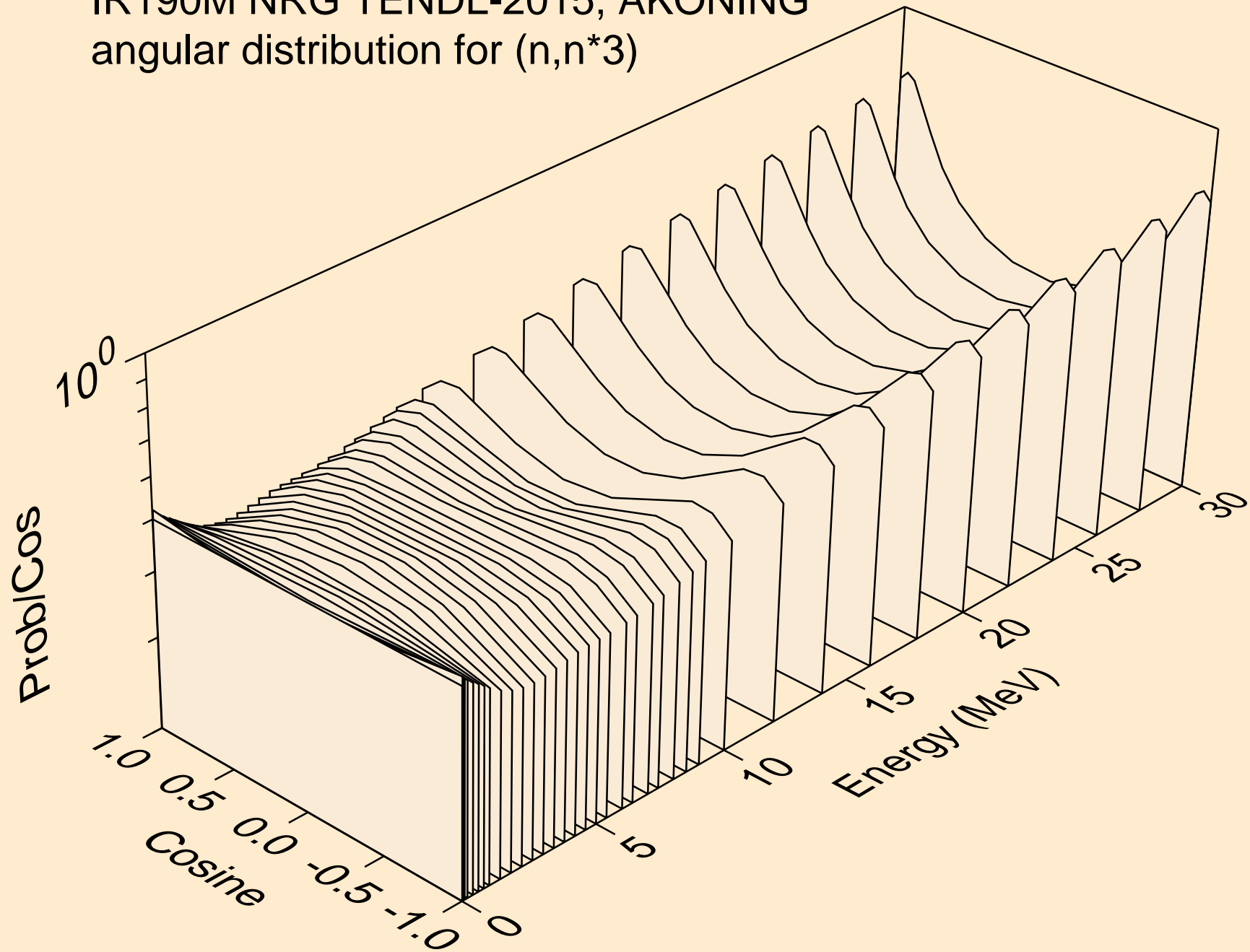
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*1)



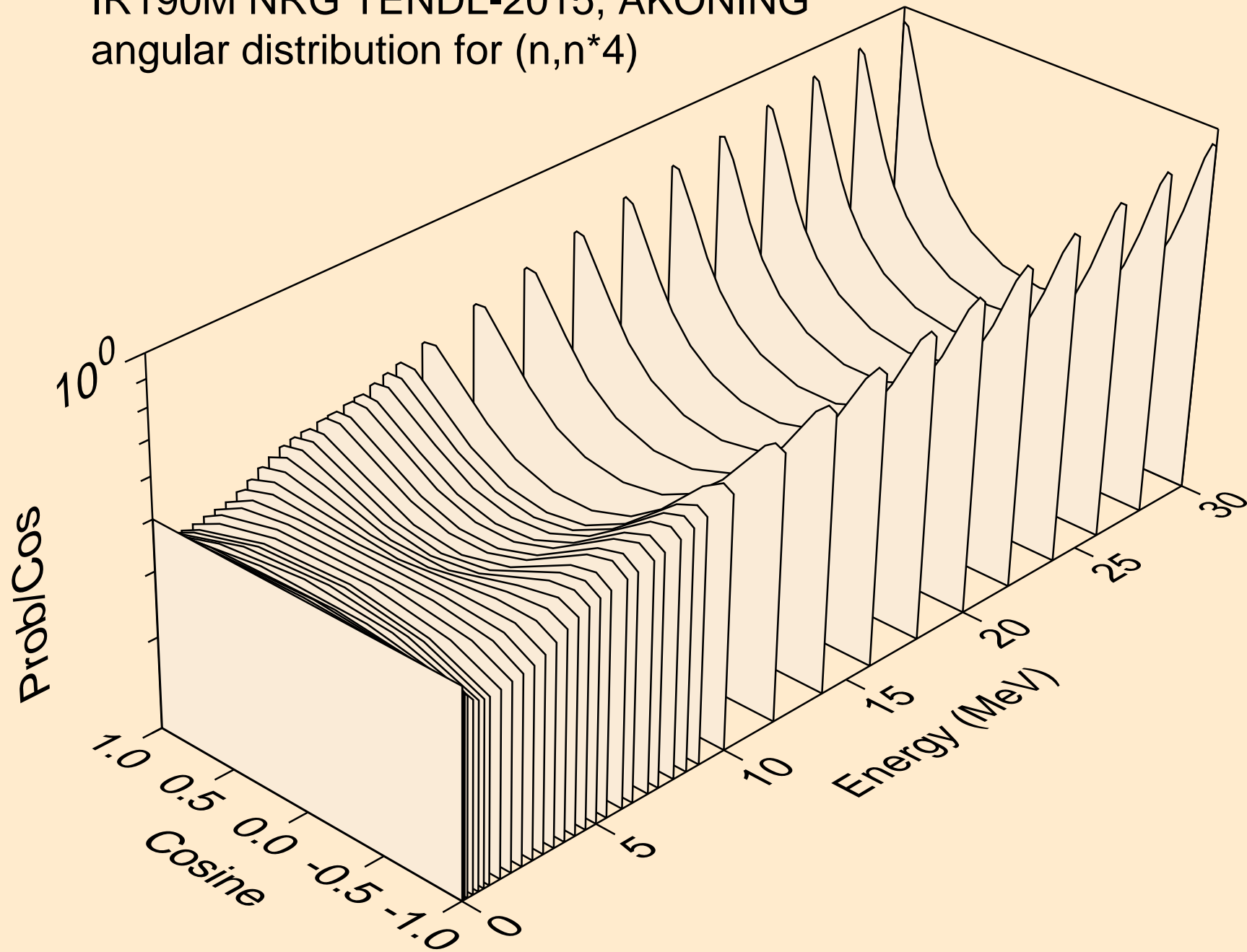
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*2)



IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*3)

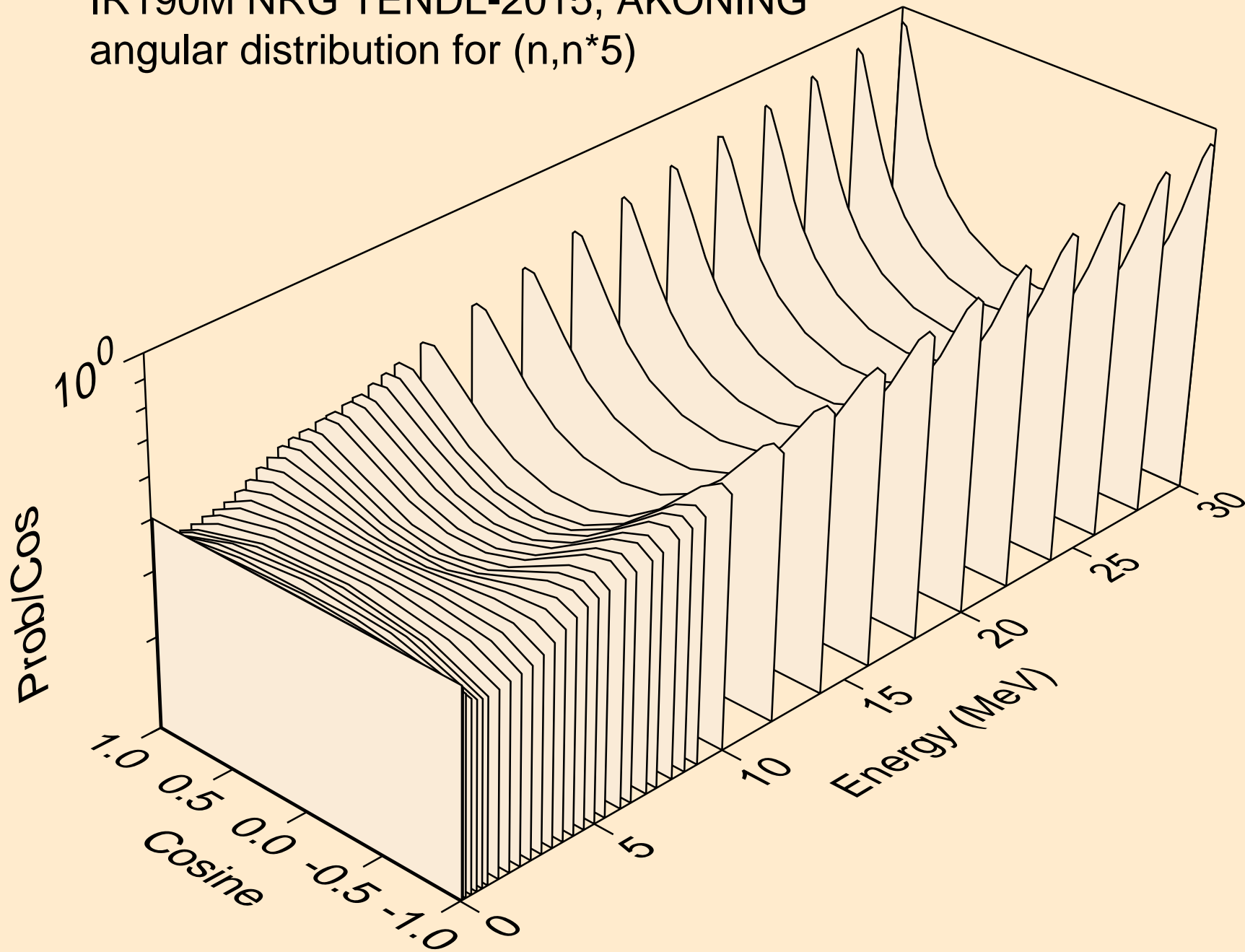


IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*4)

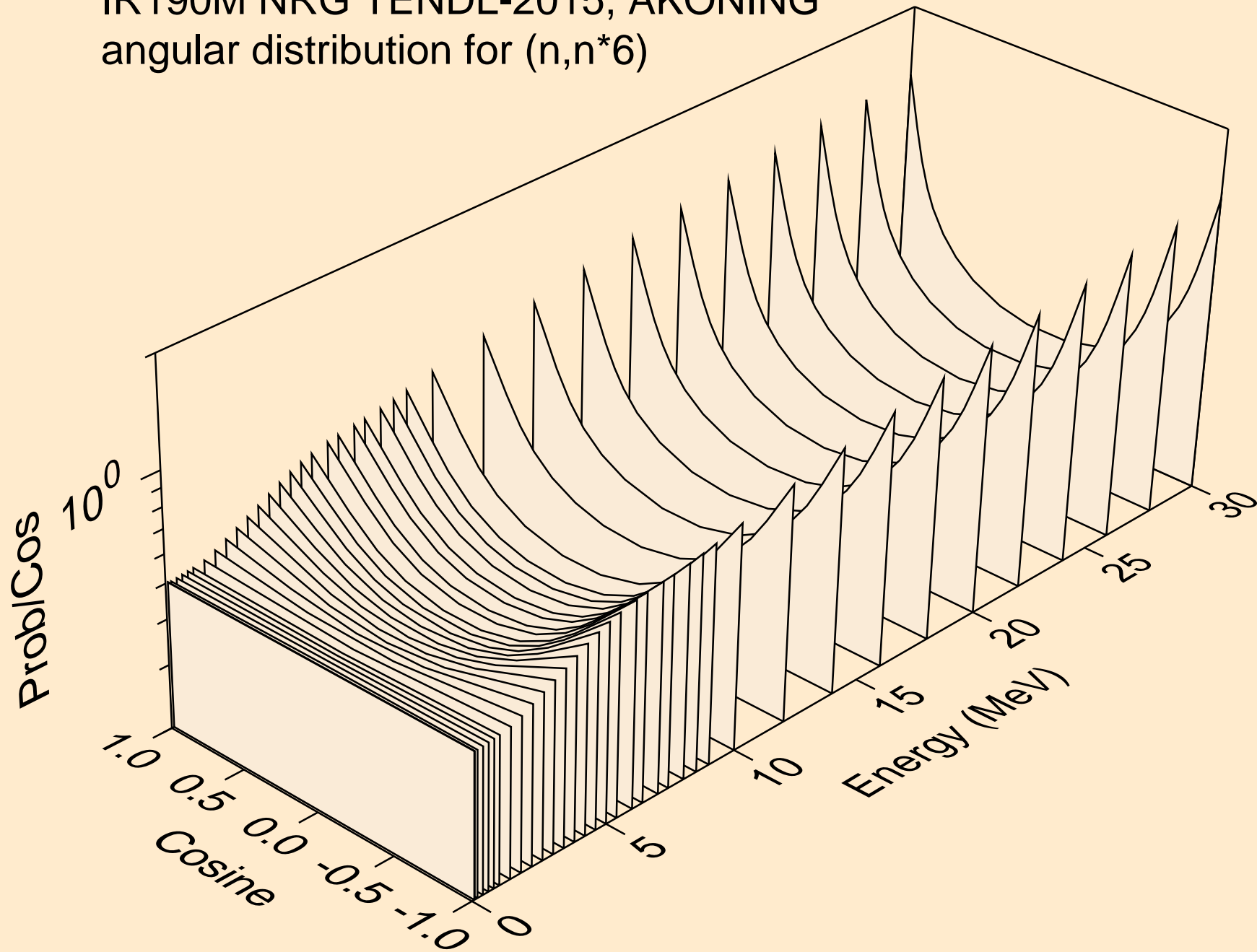




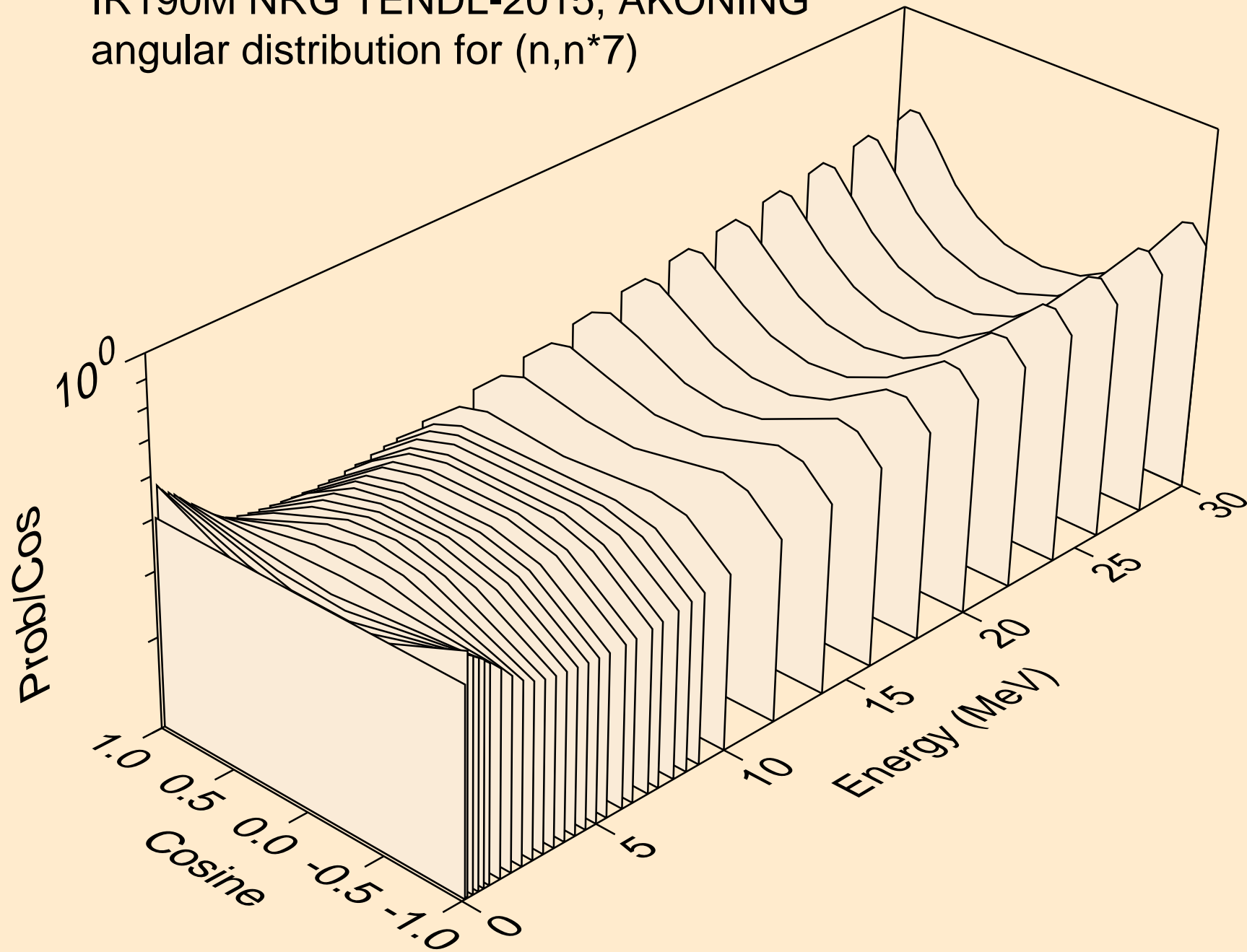
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*5)



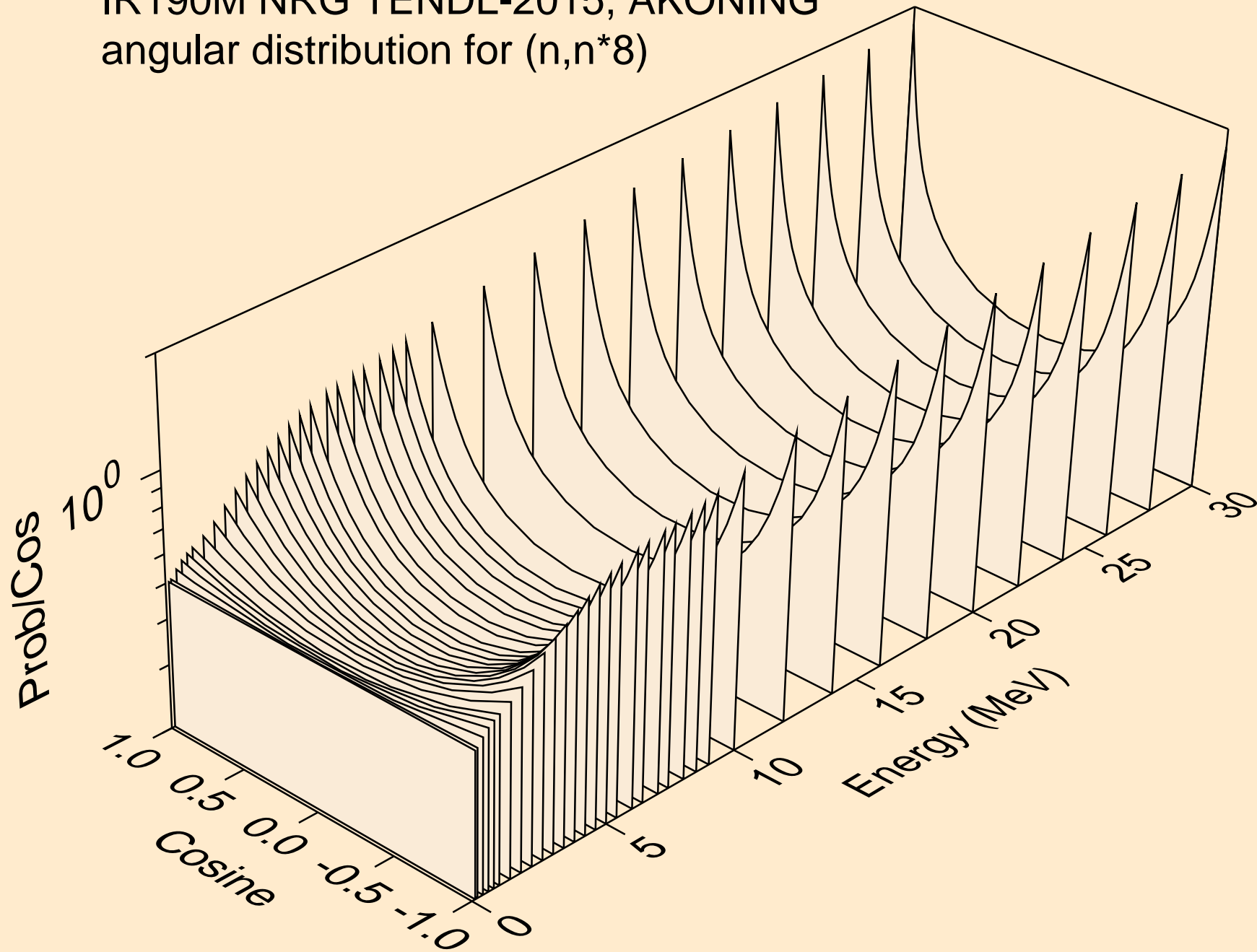
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*6)



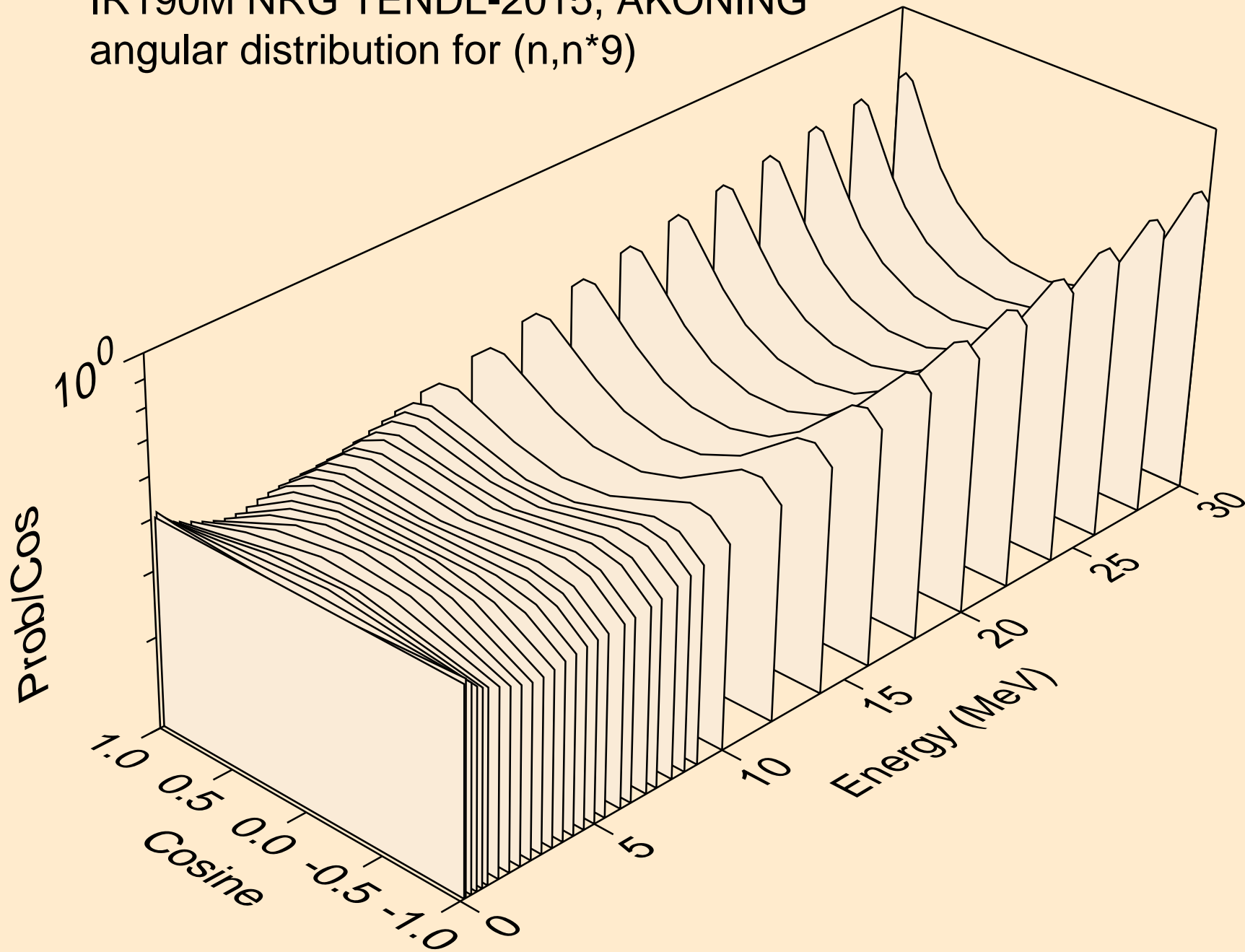
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*7)



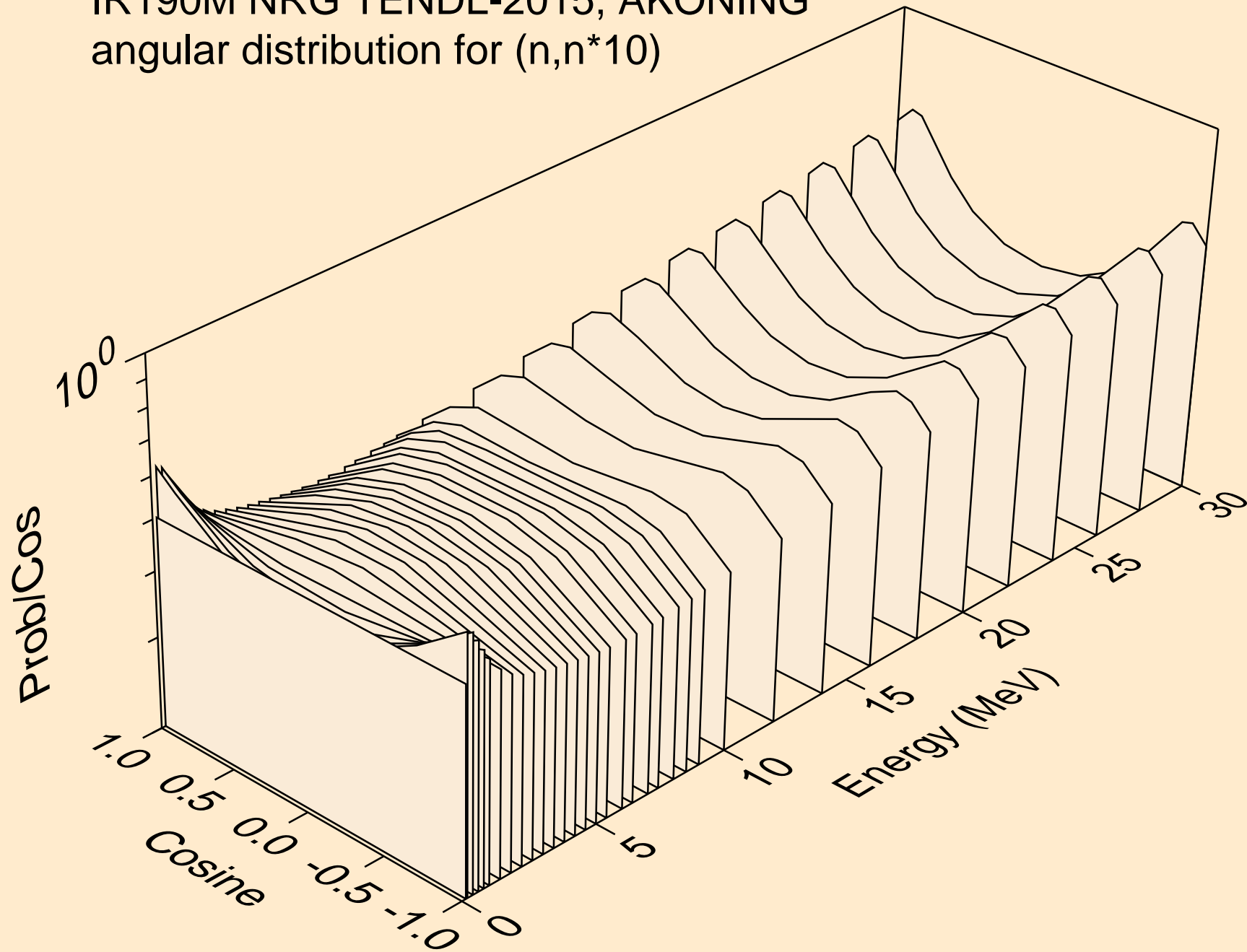
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*8)



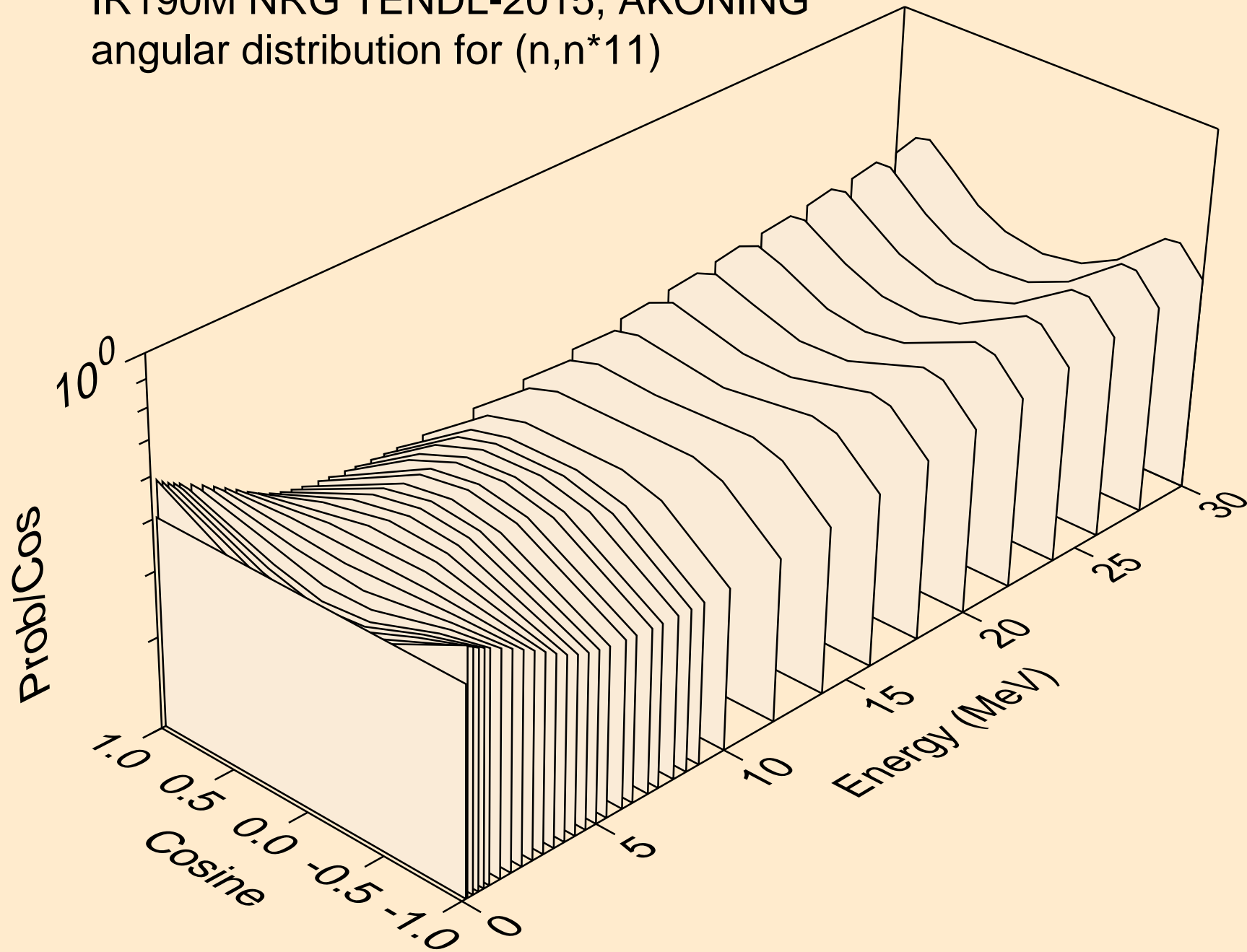
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*9)



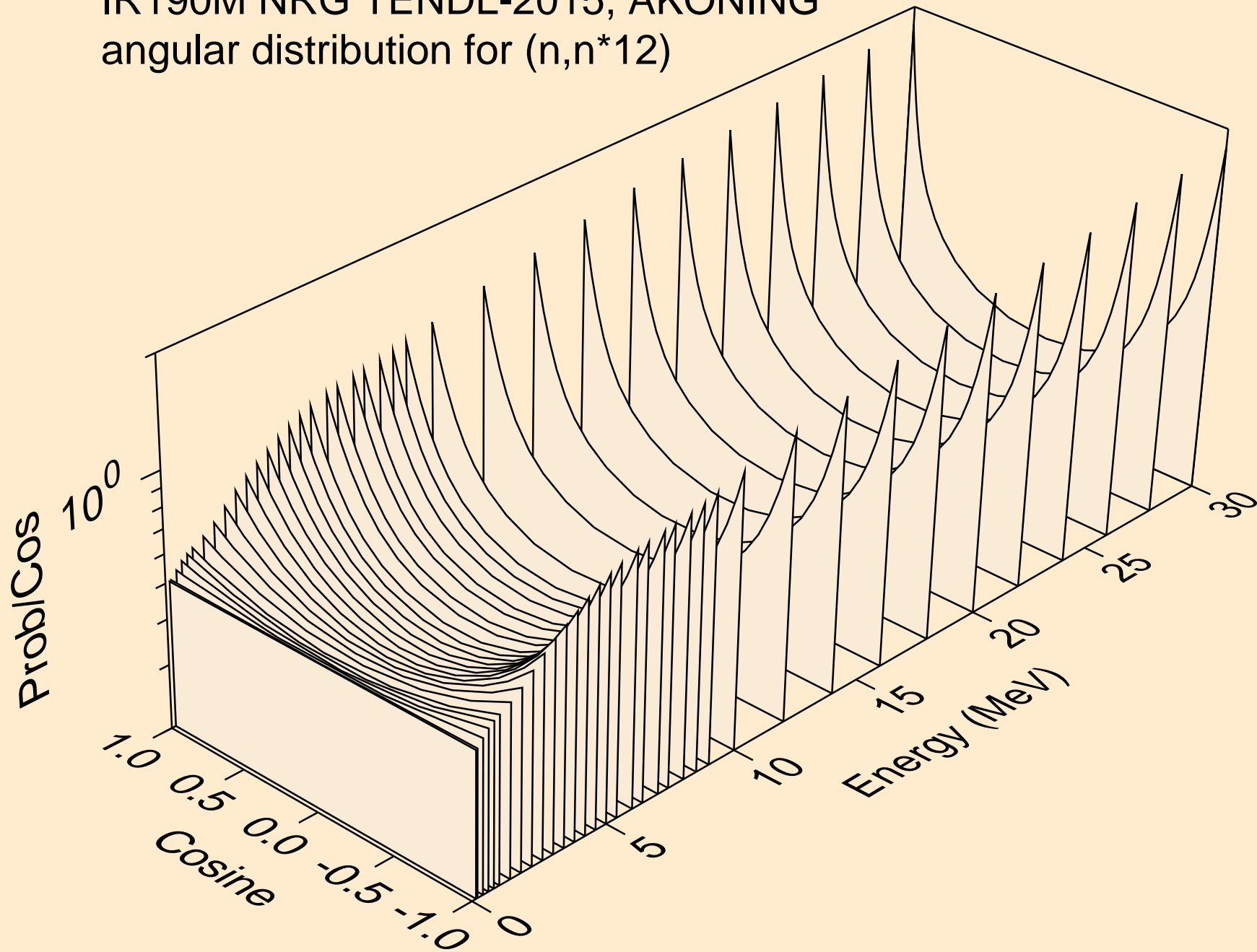
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*10)



IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*11)

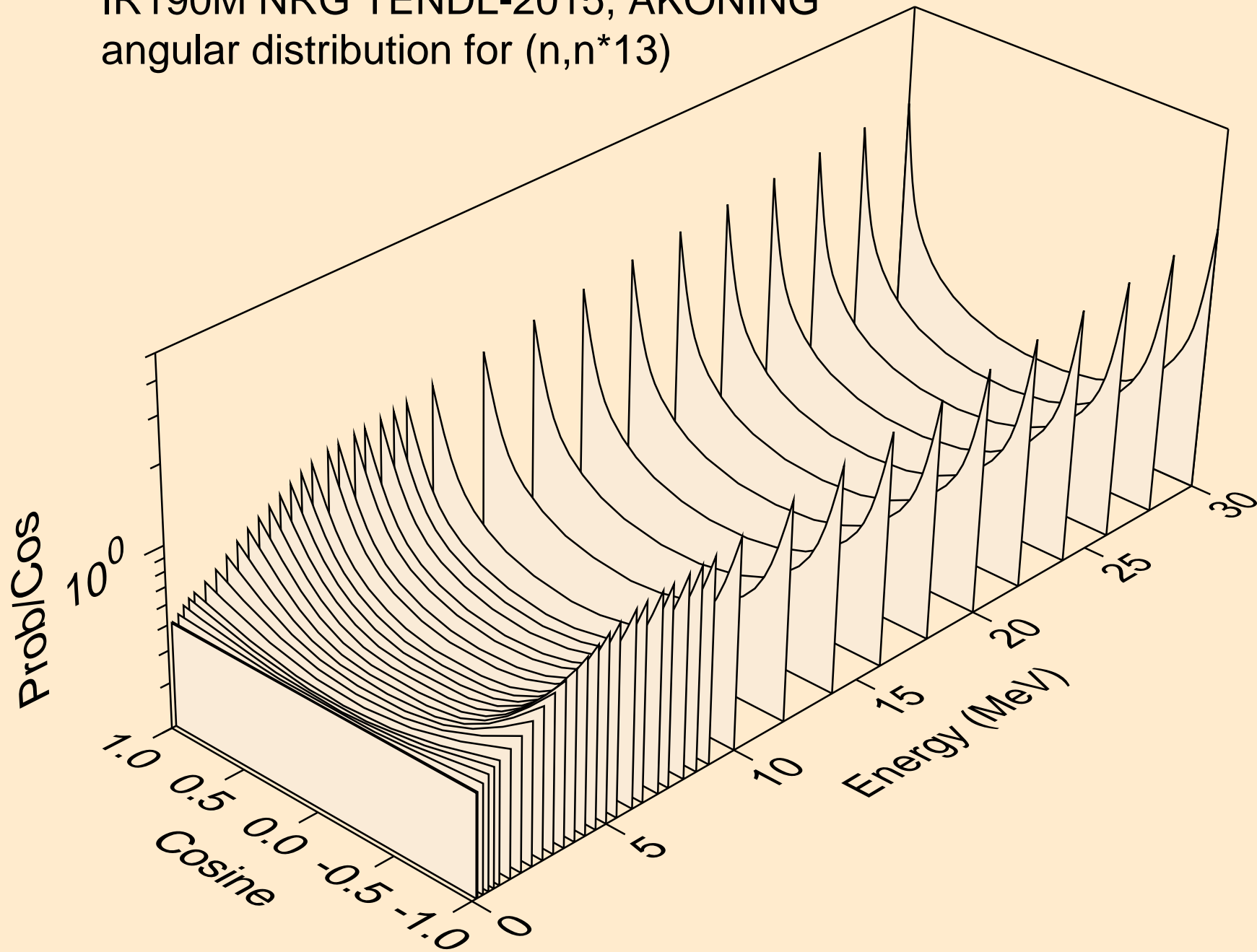


IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*12)

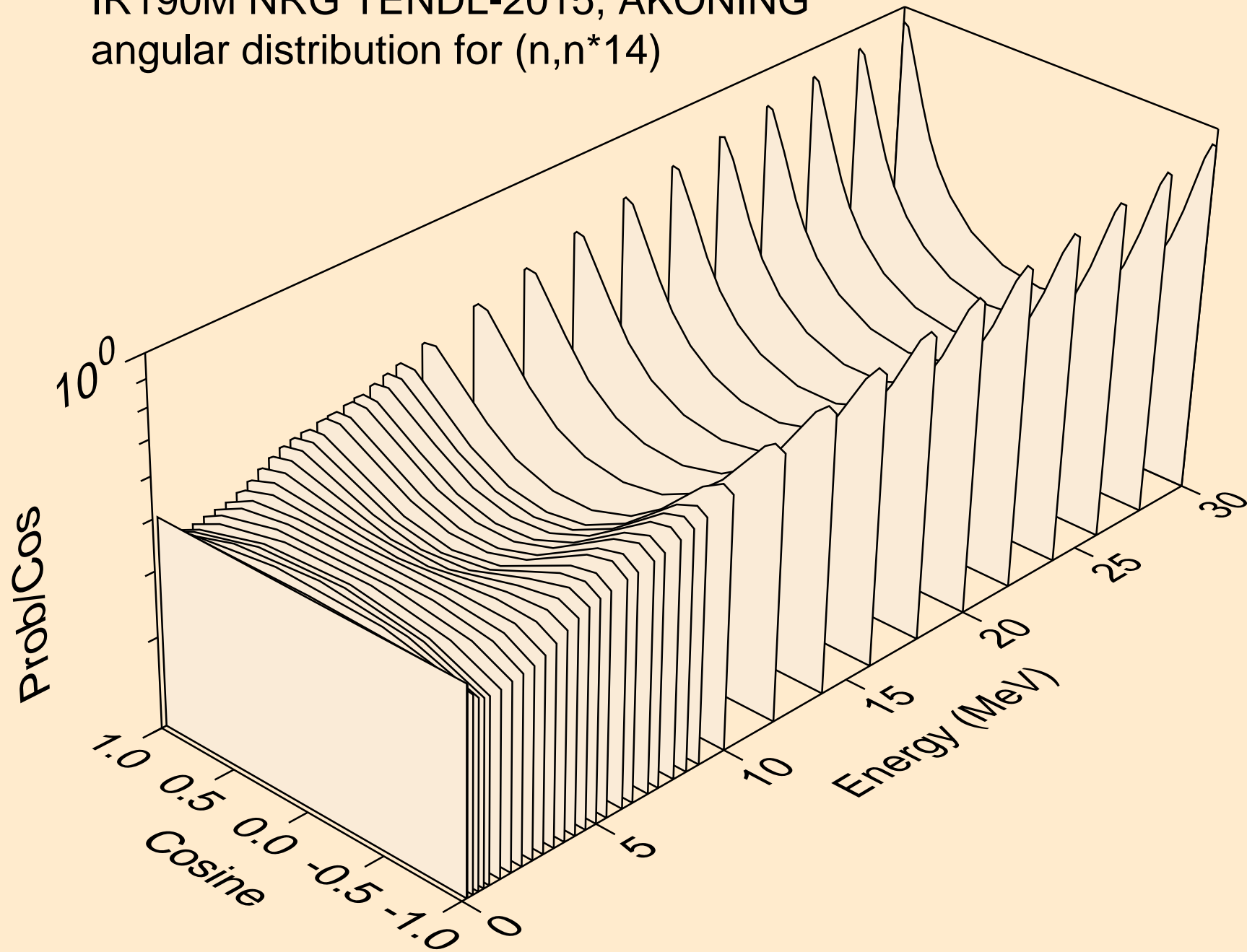




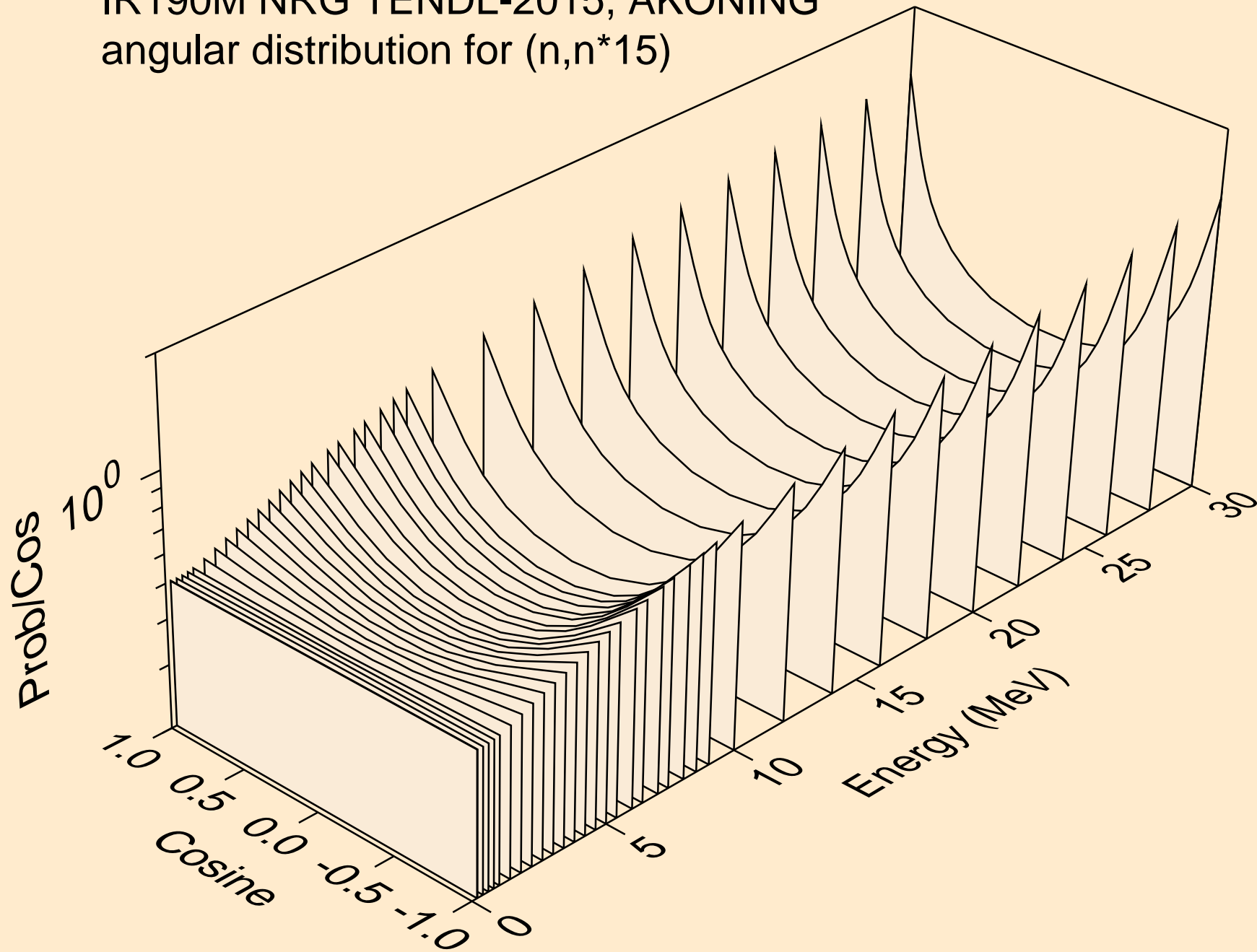
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*13)



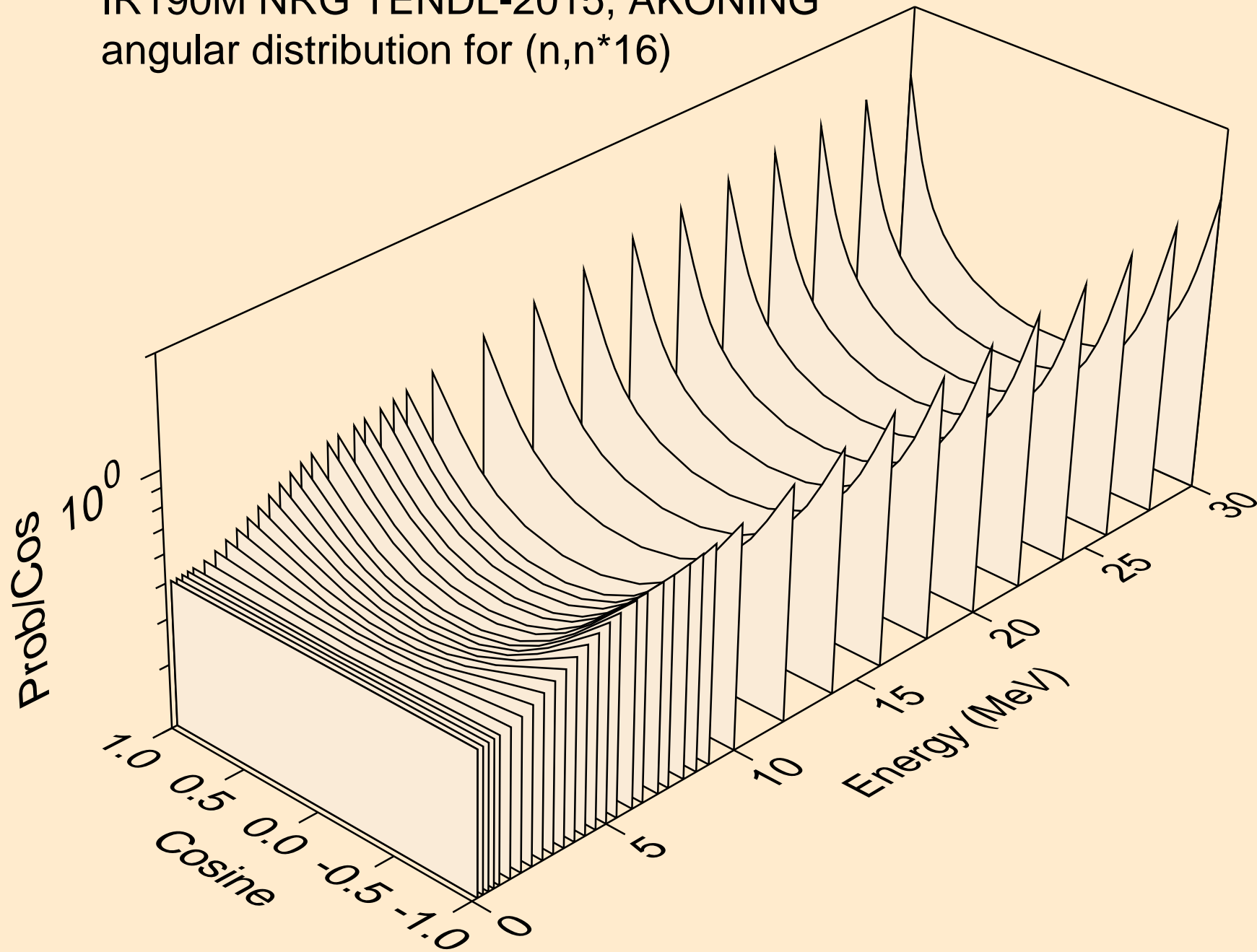
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*14)



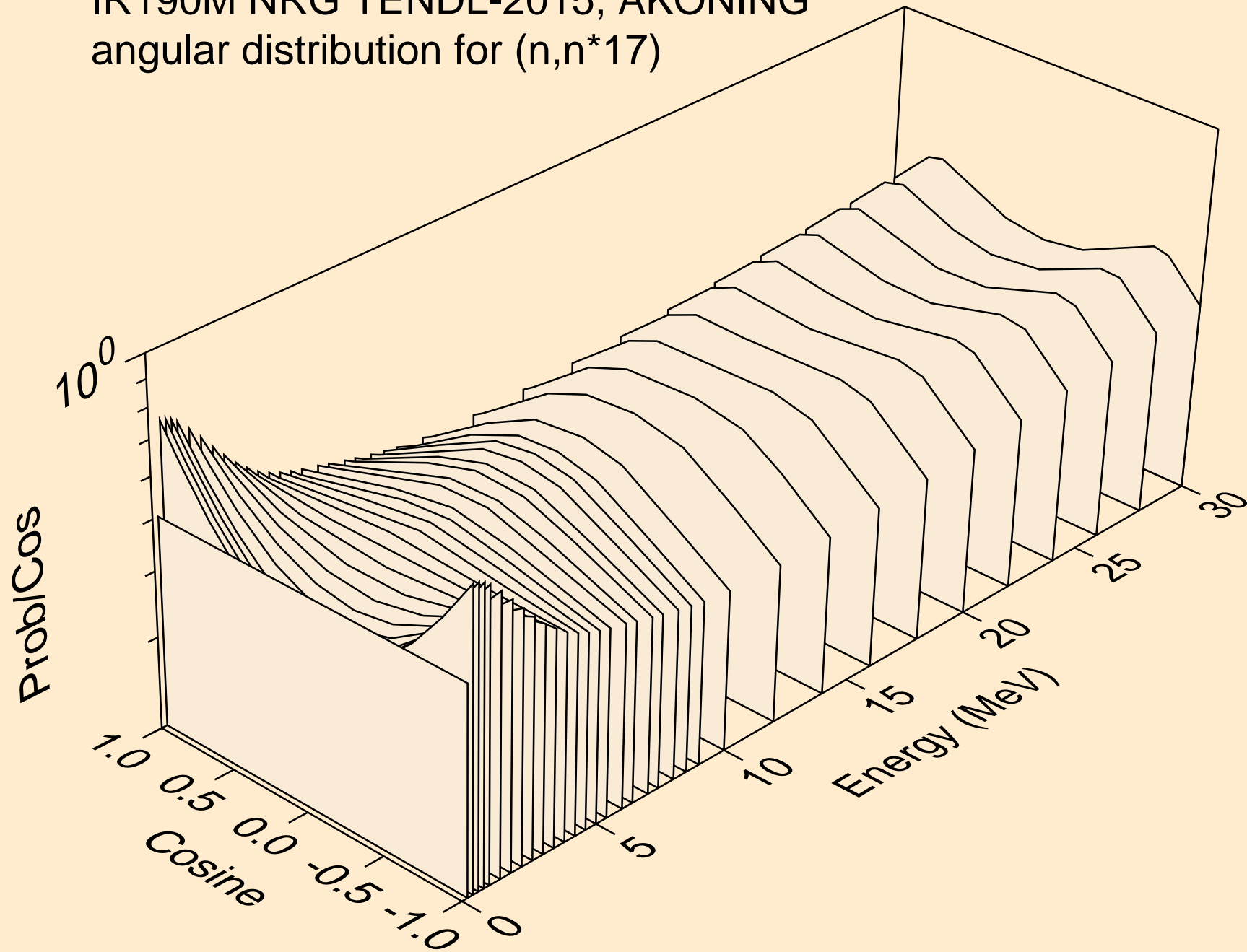
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*15)



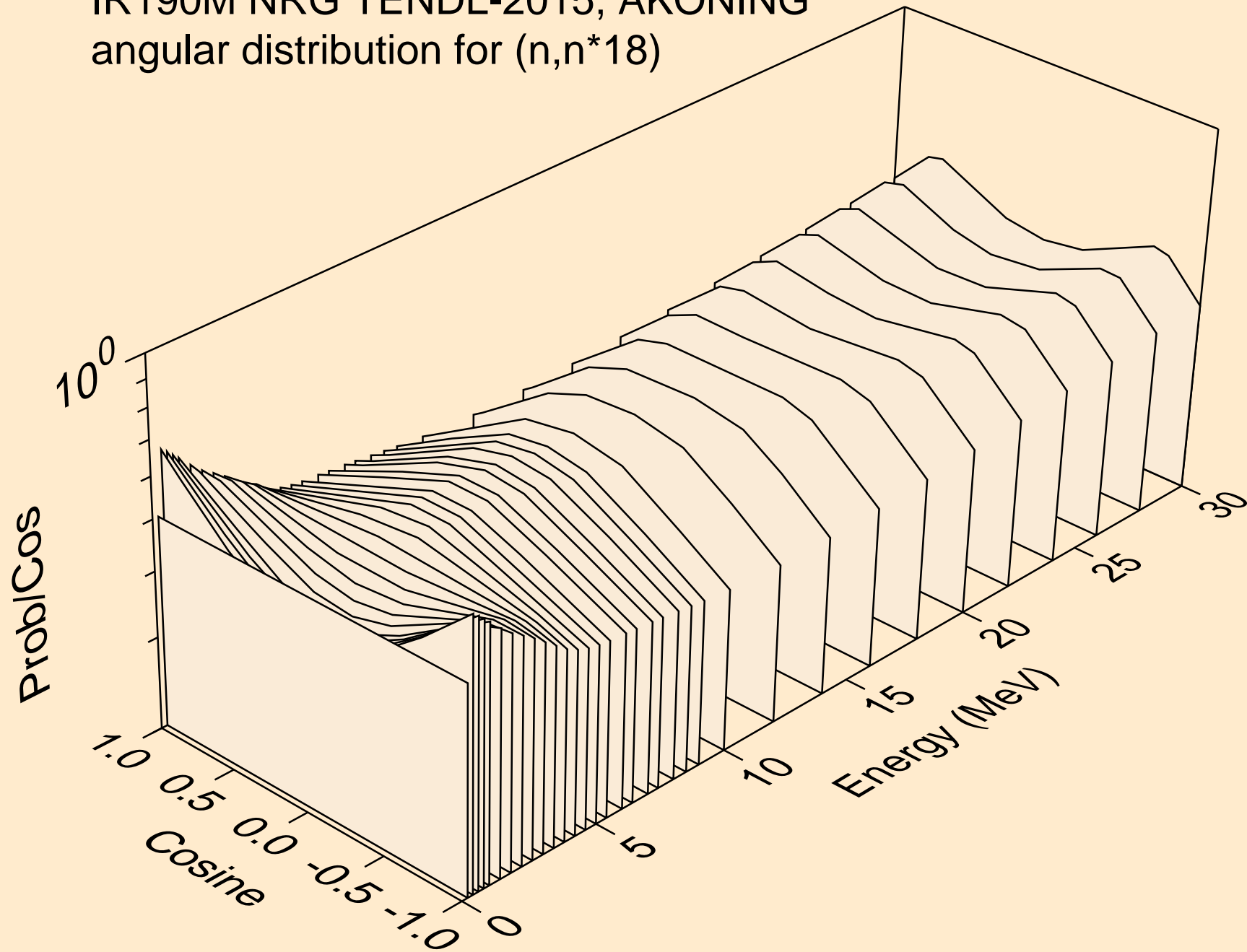
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*16)



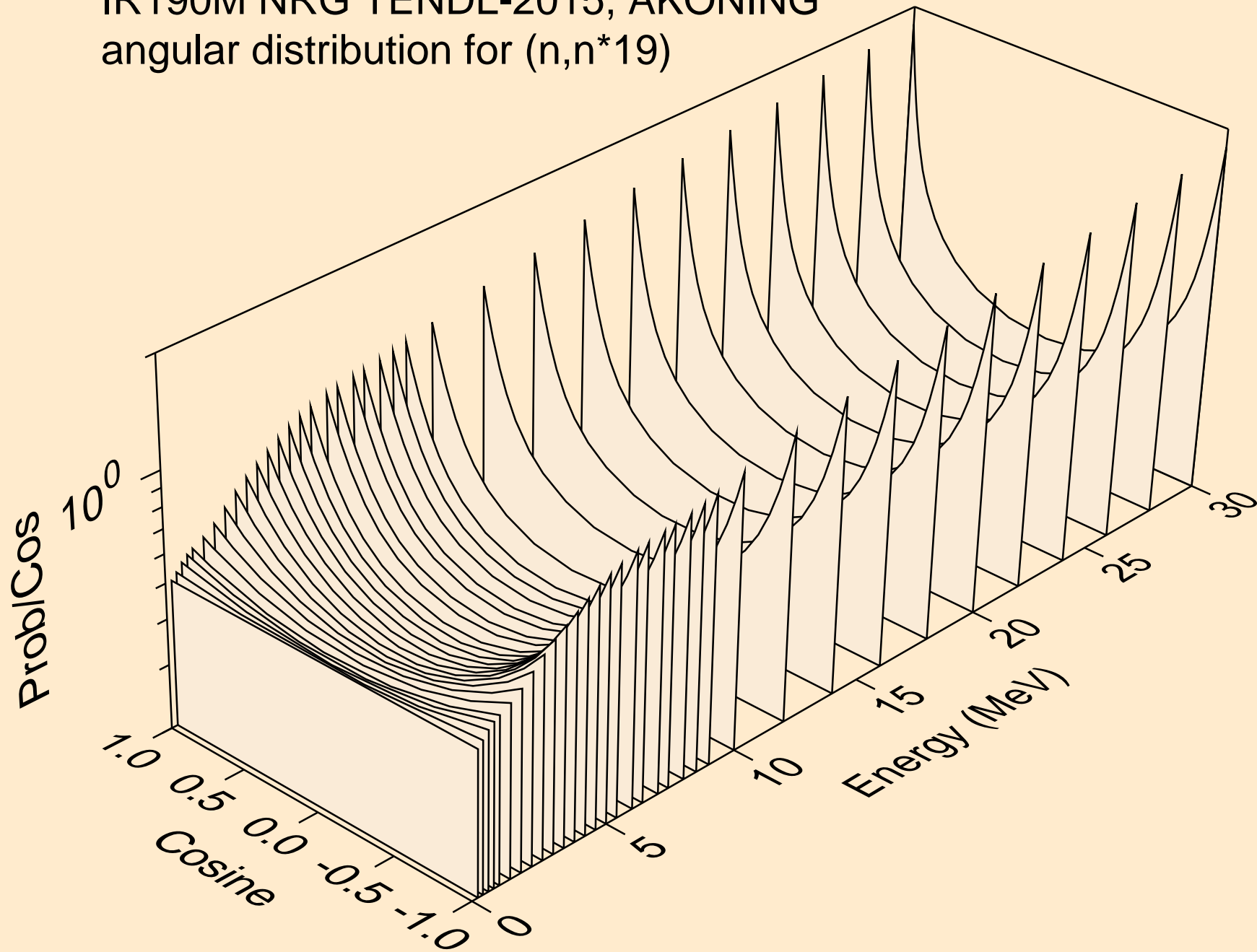
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*17)



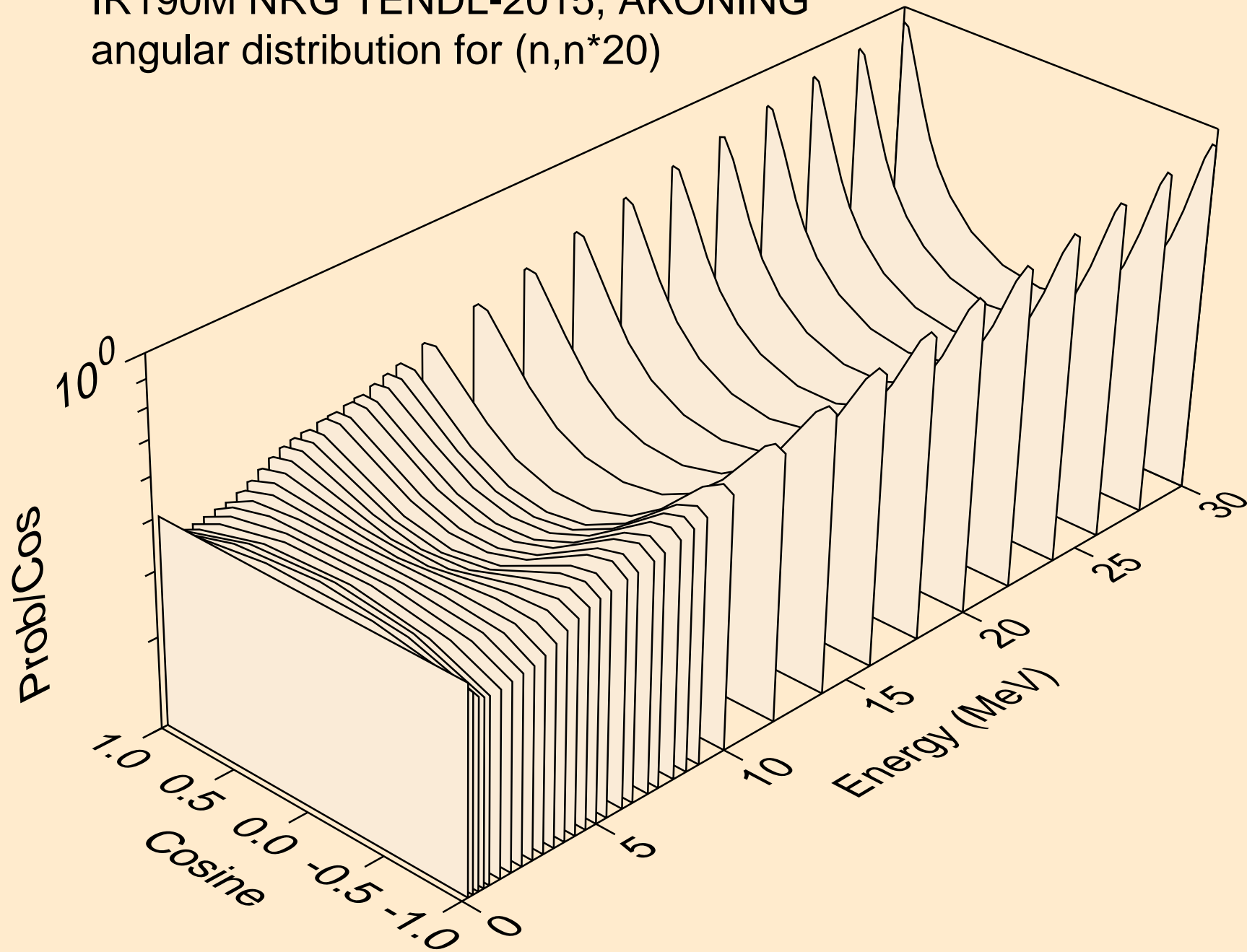
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*18)



IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*19)

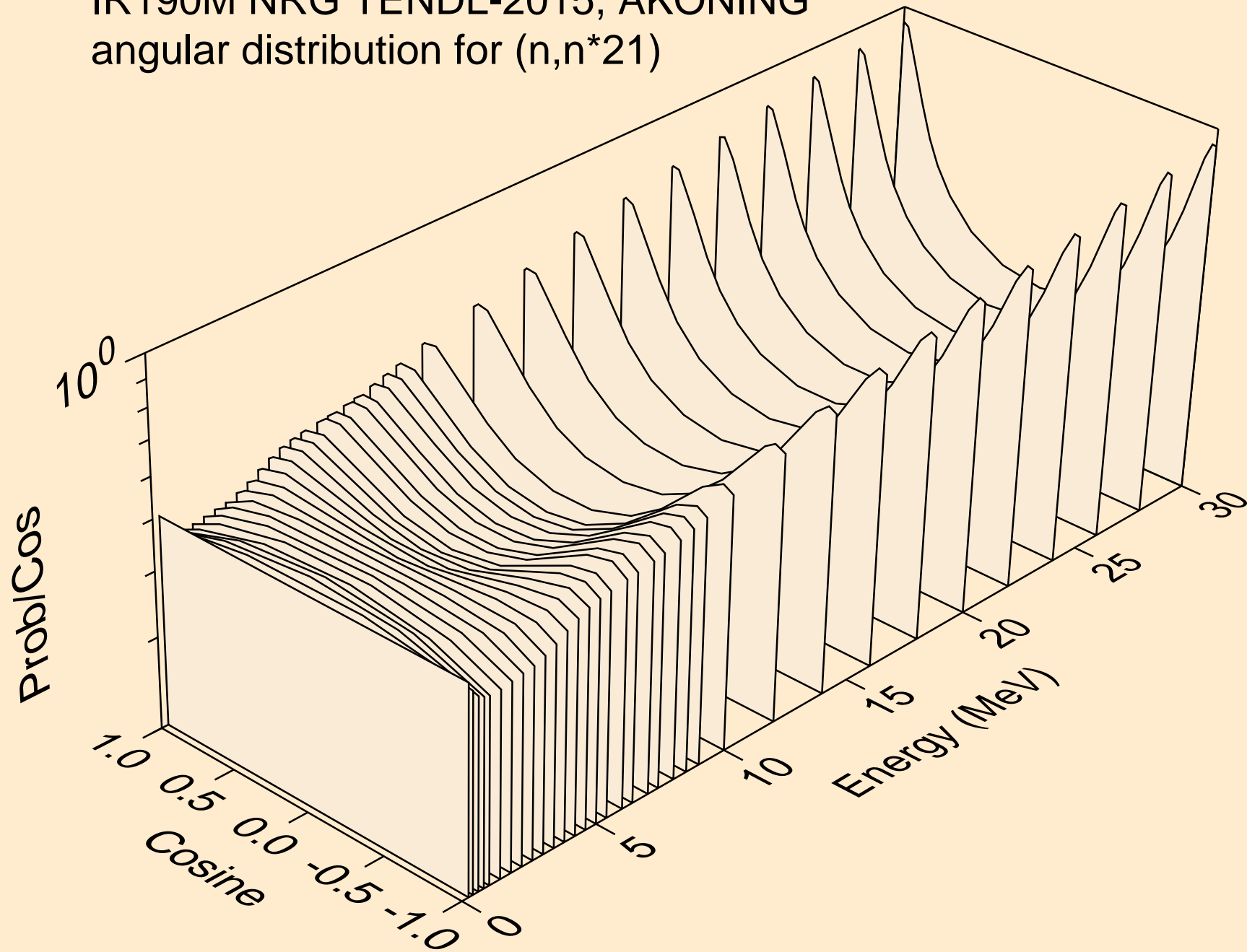


IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*20)

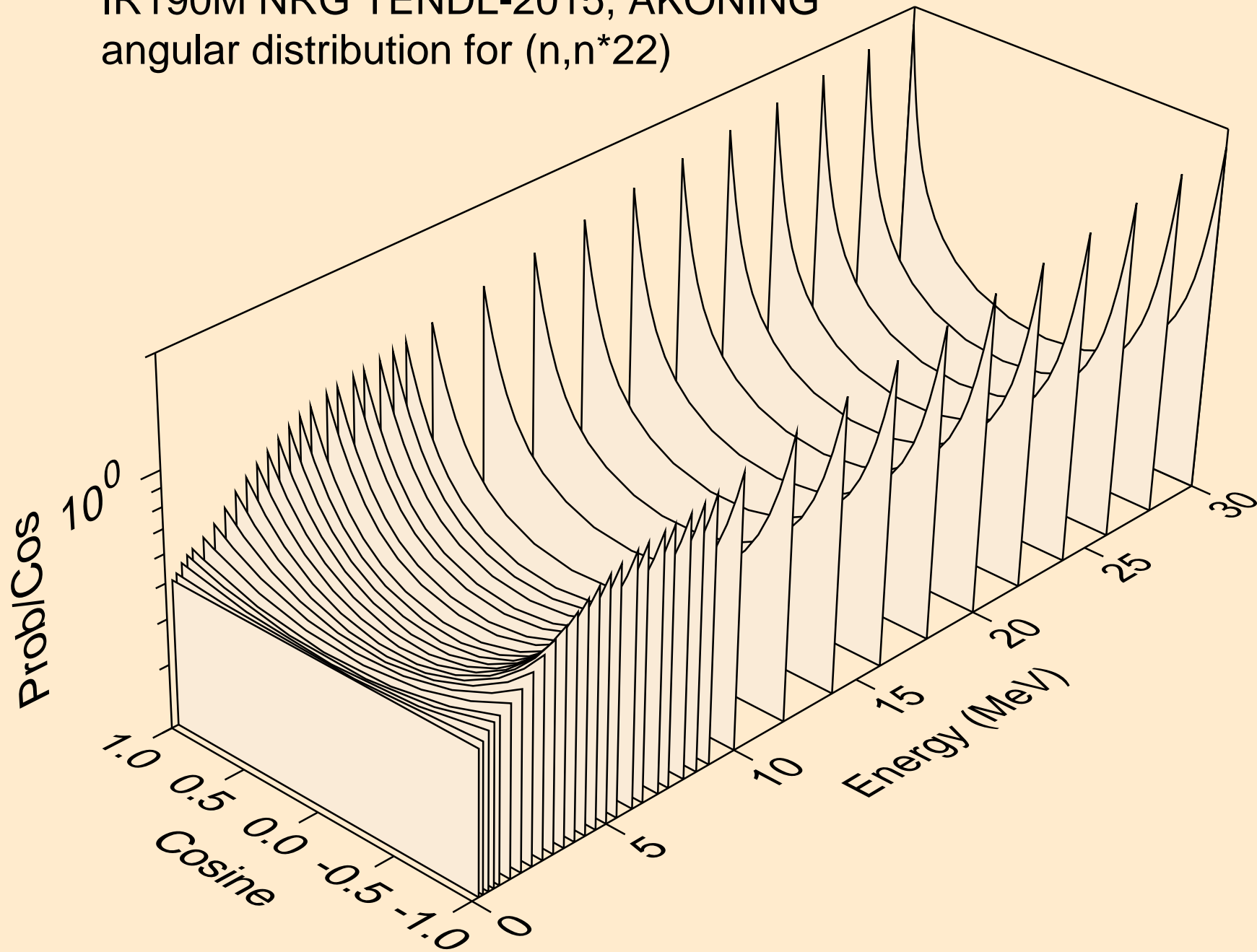




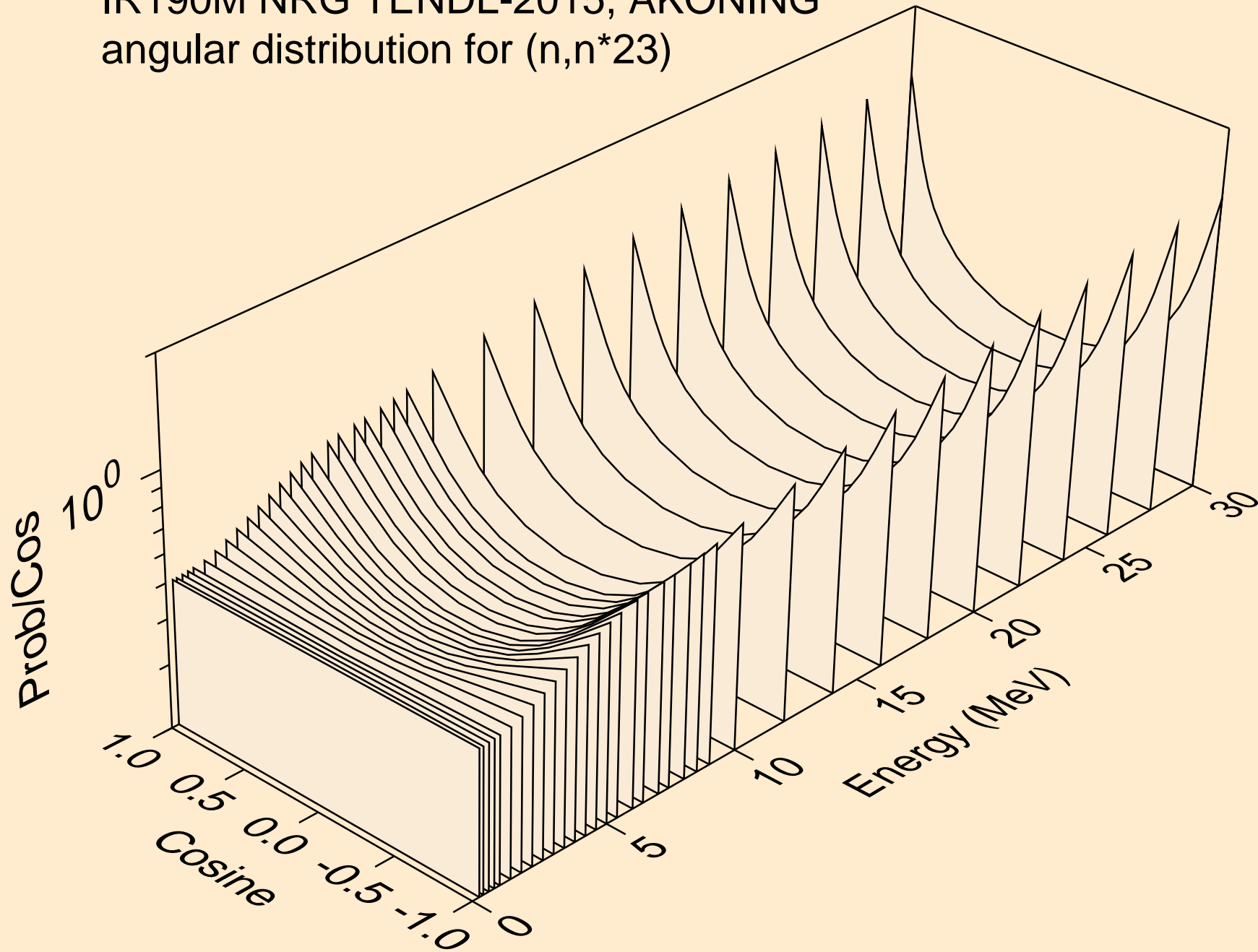
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angular distribution for (n,n\*21)



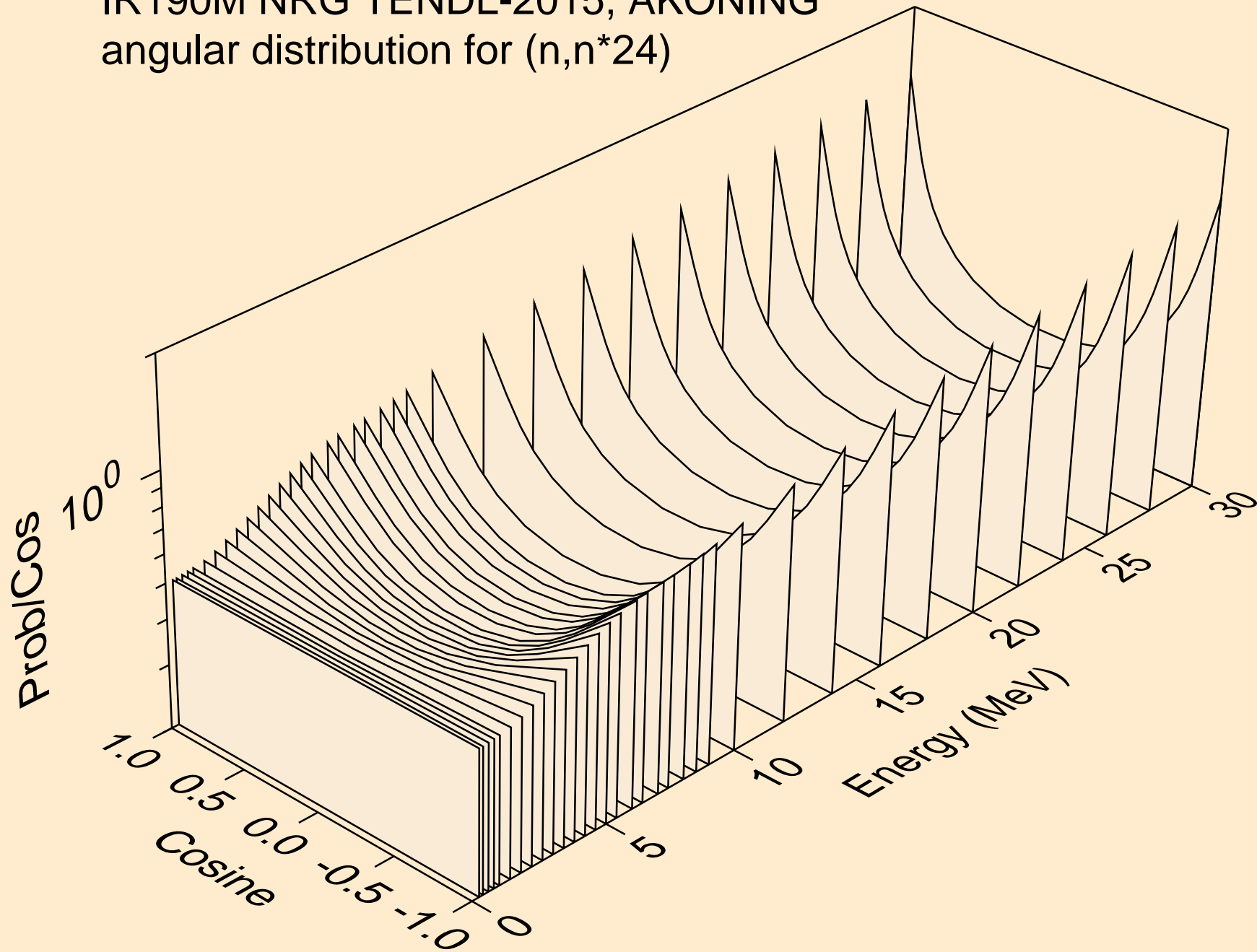
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*22)



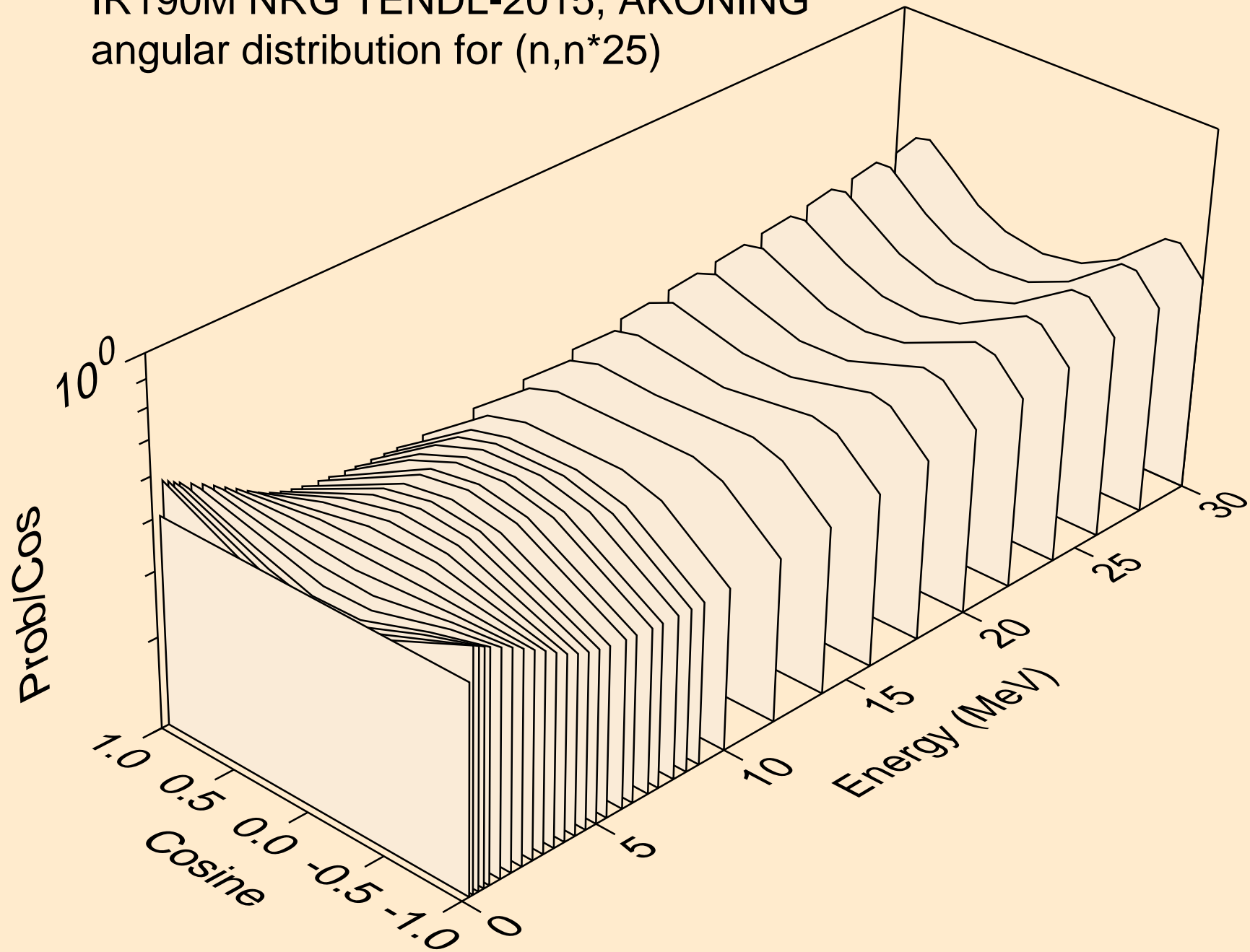
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angular distribution for (n,n\*23)



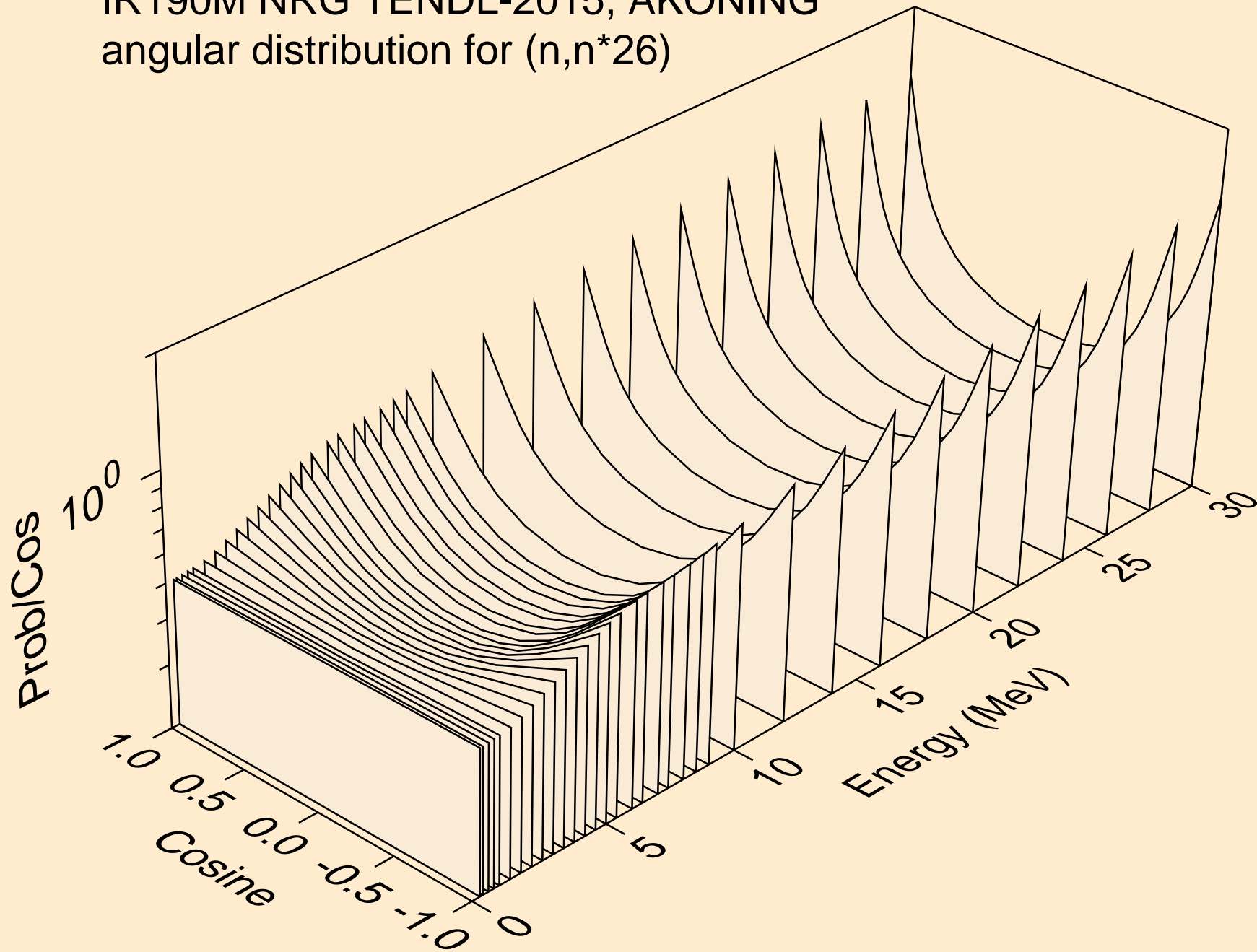
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*24)



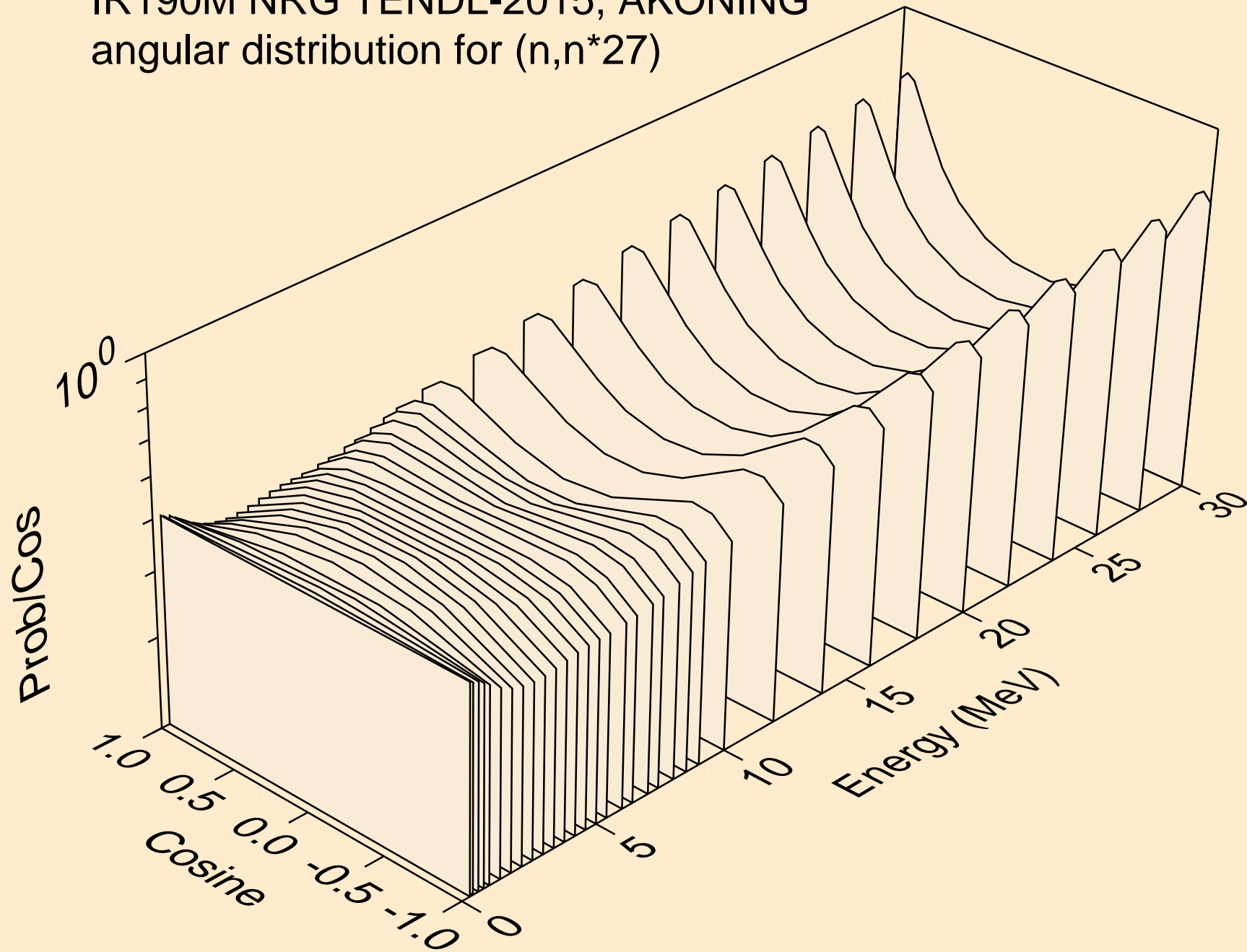
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*25)



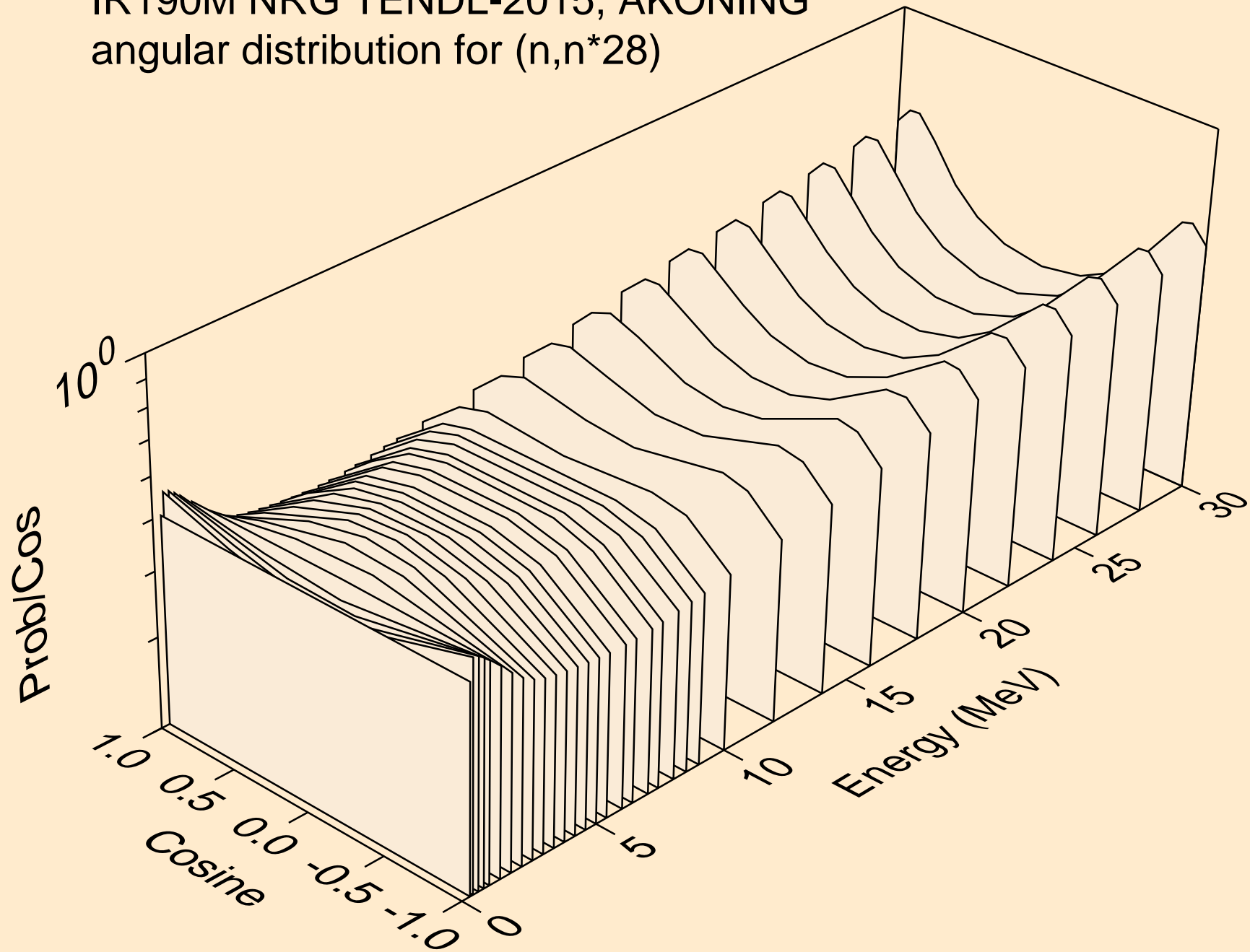
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*26)



IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*27)

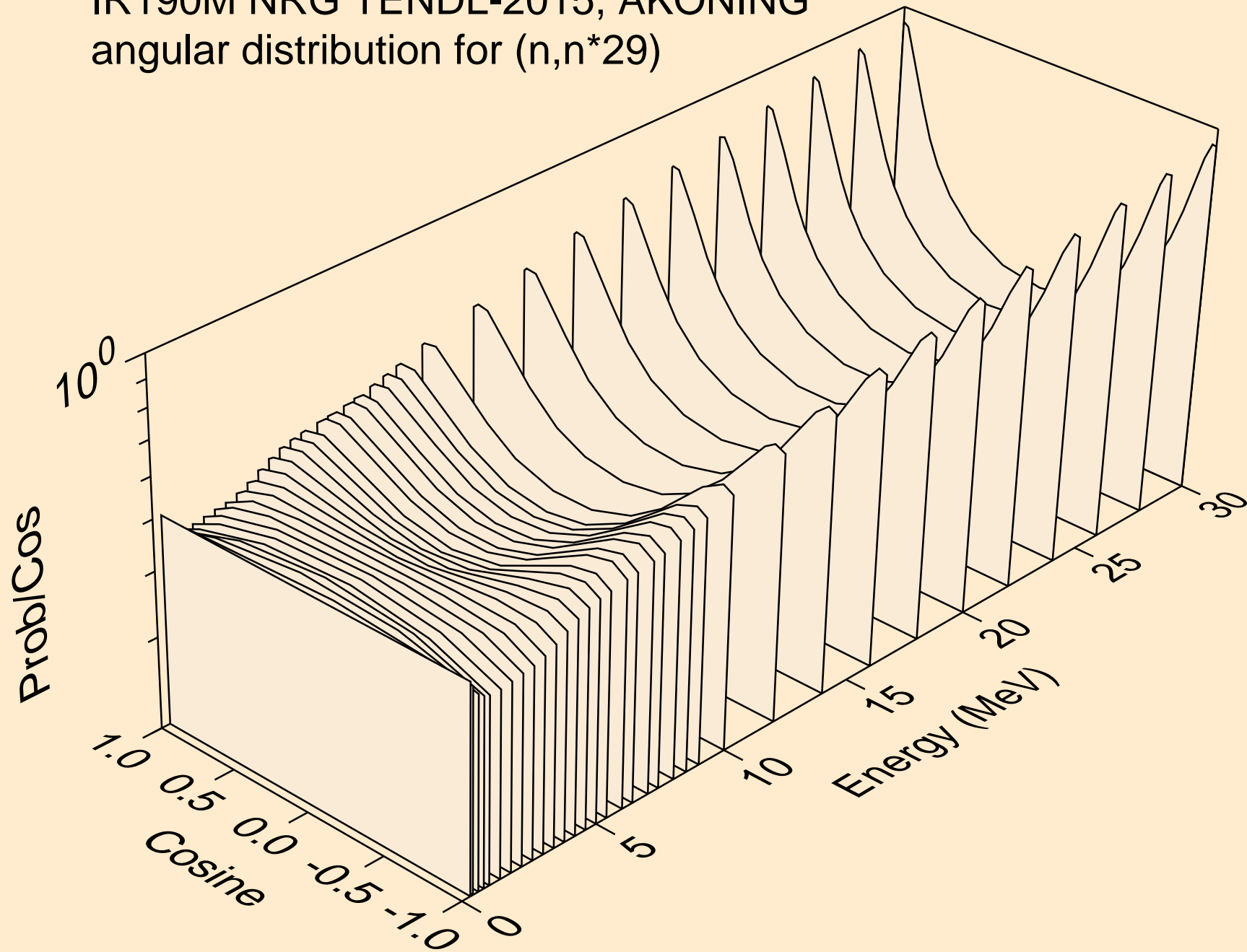


IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*28)

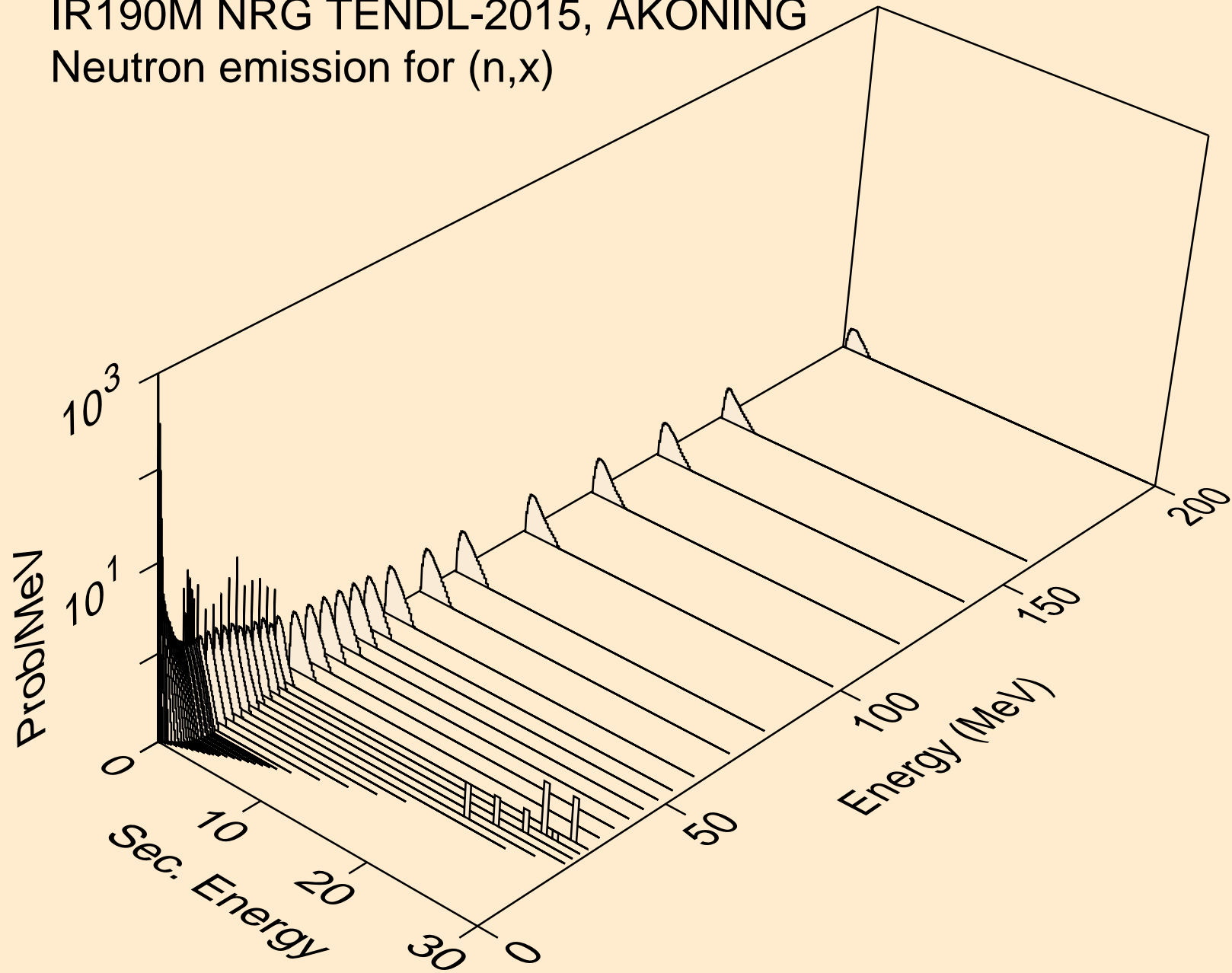




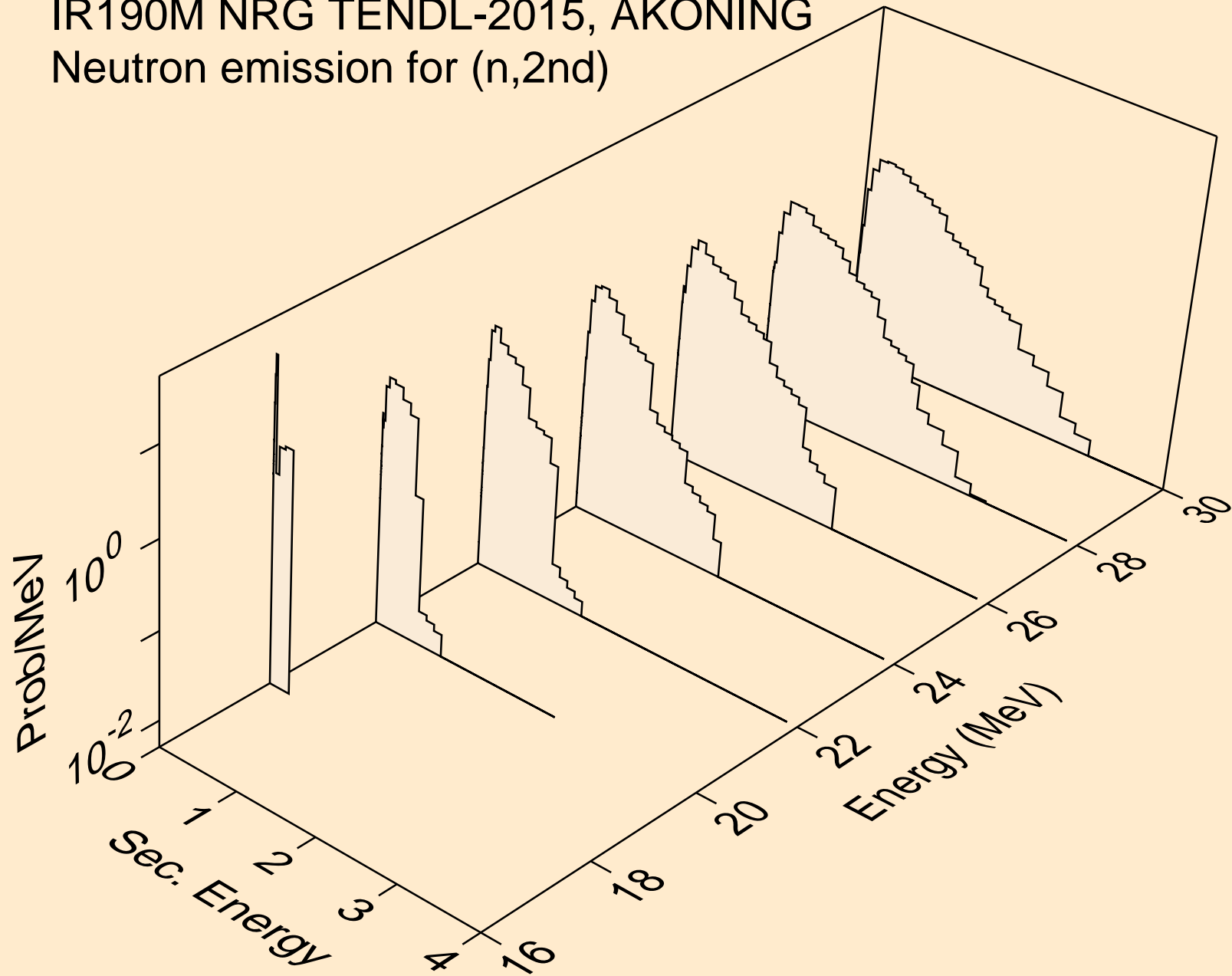
IR190M NRG TENDL-2015, AKONING  
angular distribution for (n,n\*29)



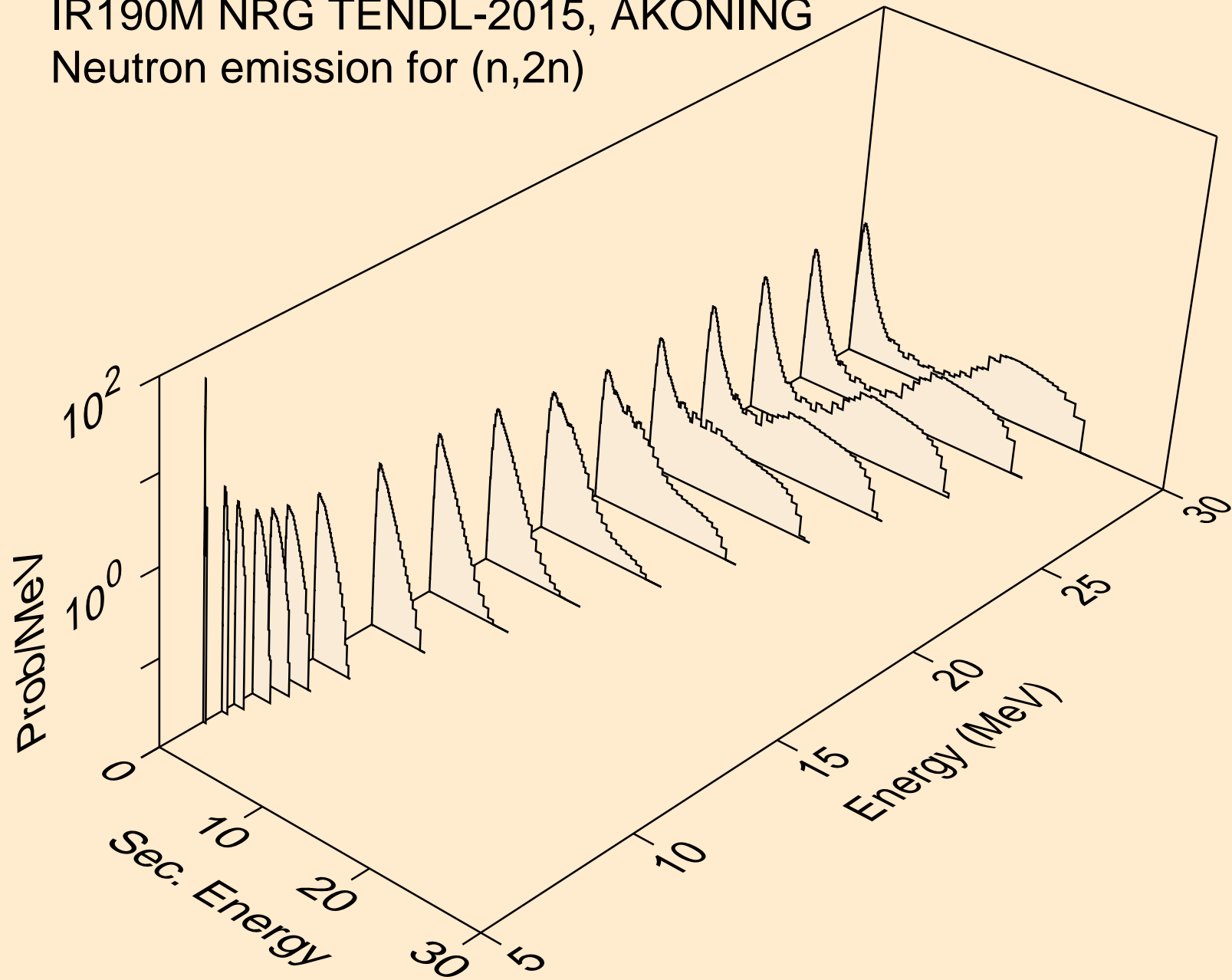
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,x)



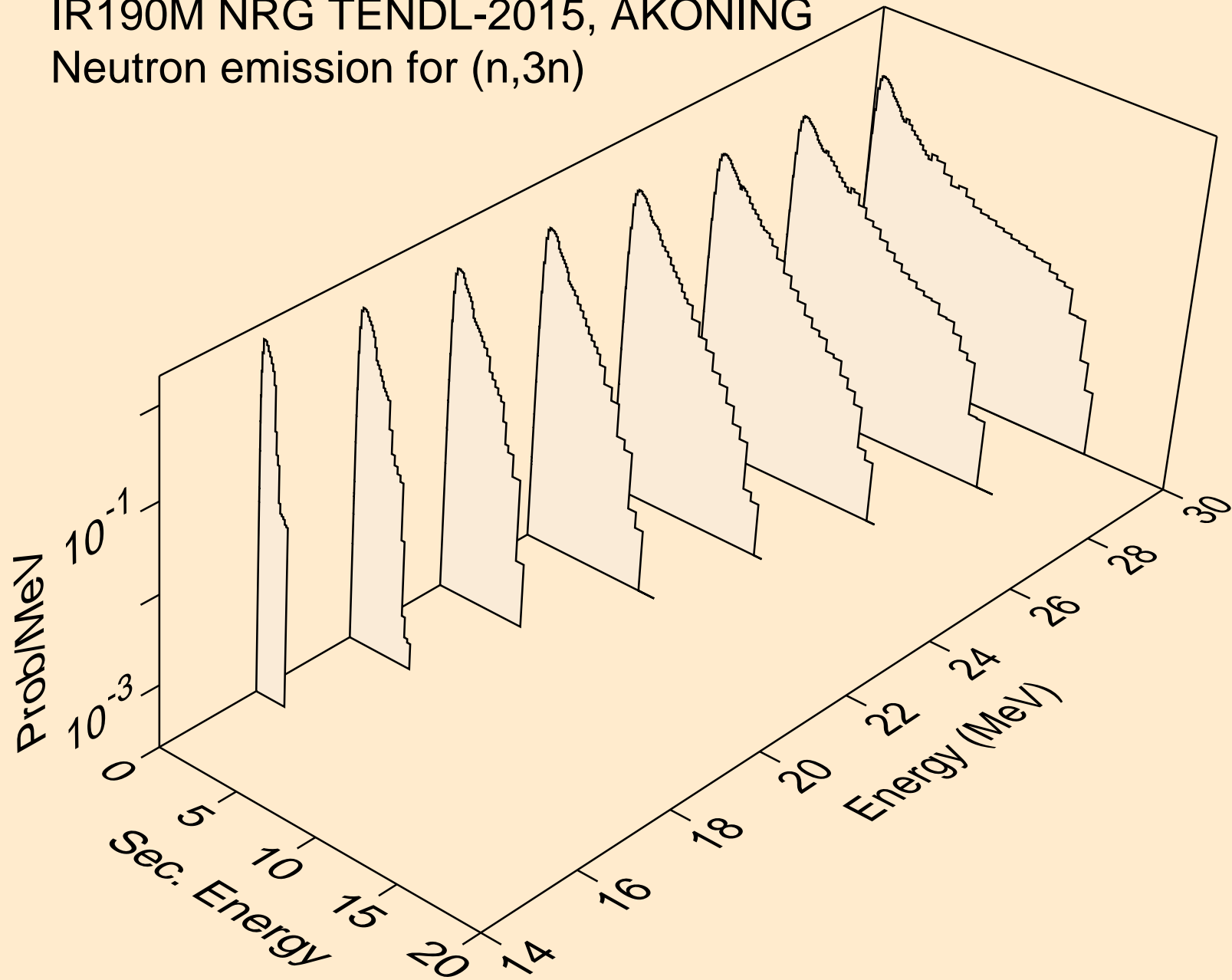
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,2nd)



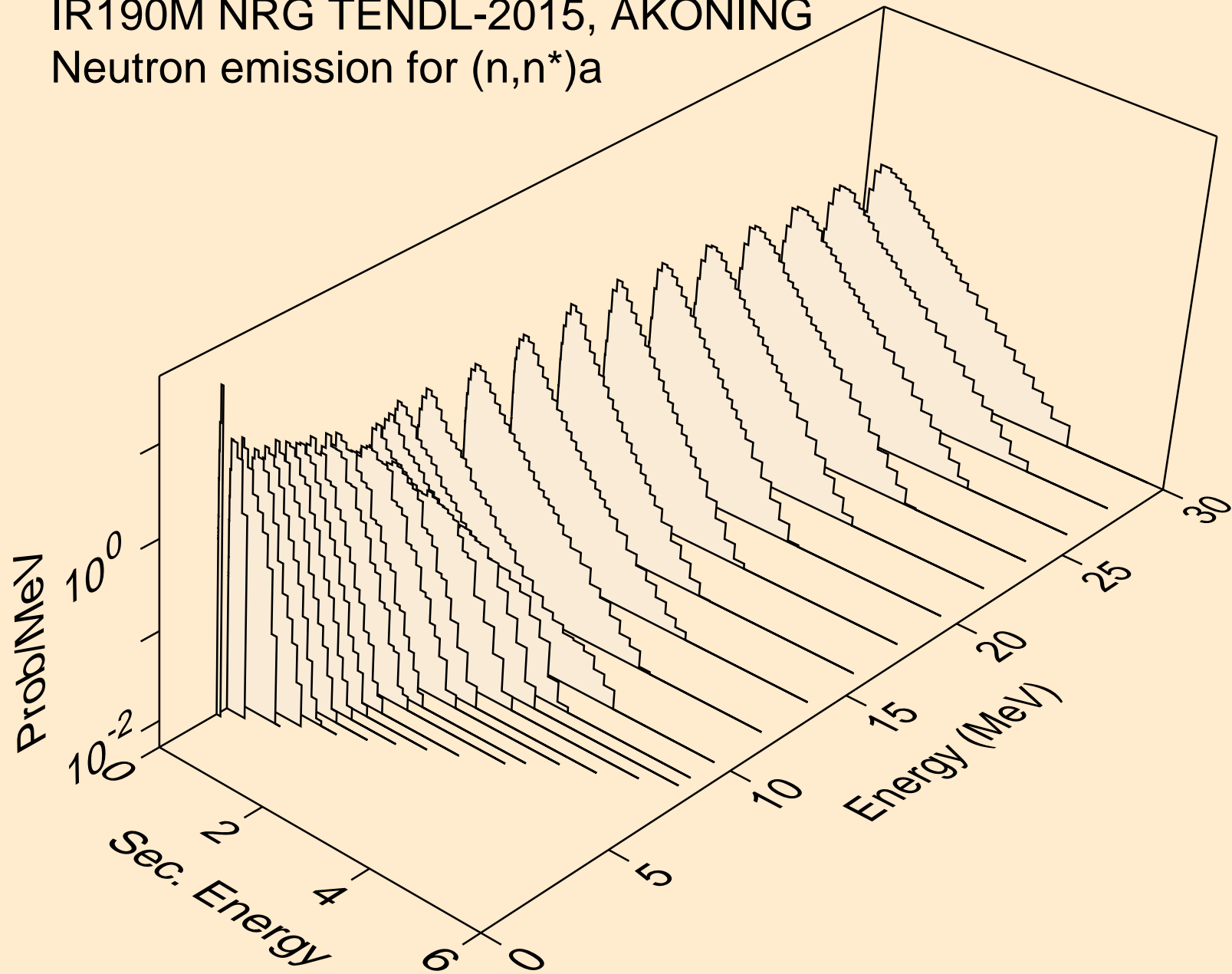
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)



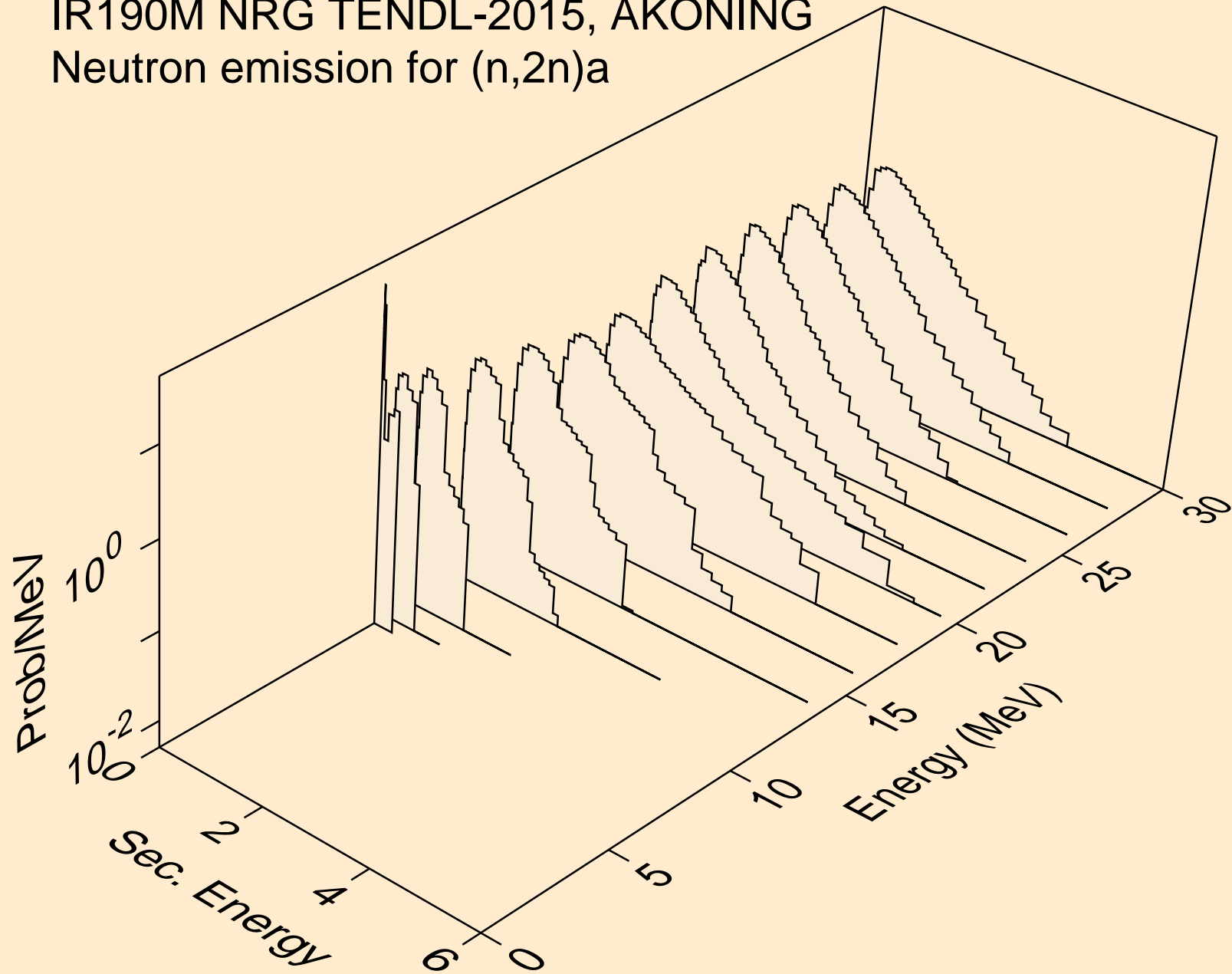
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)



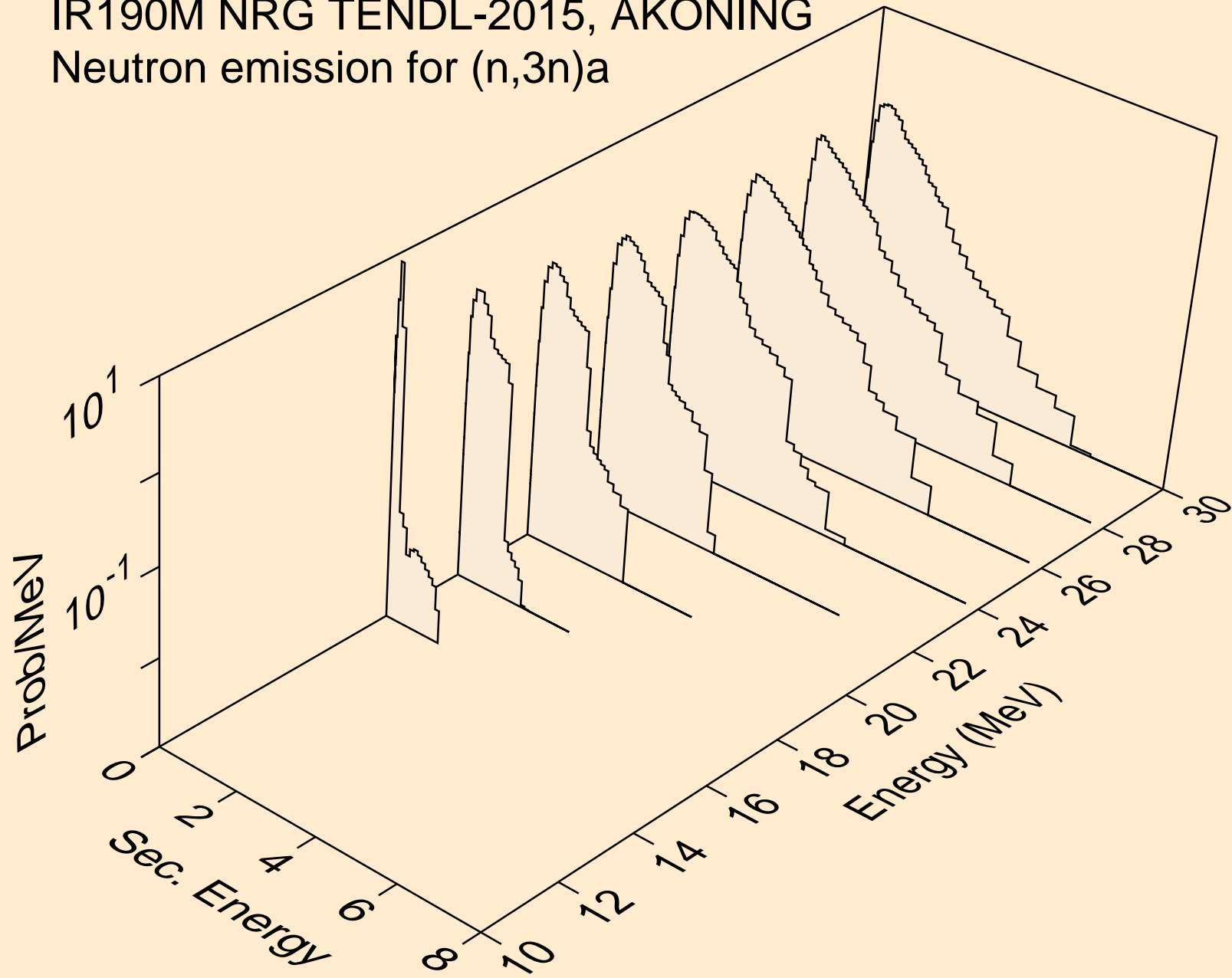
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)a



IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)a

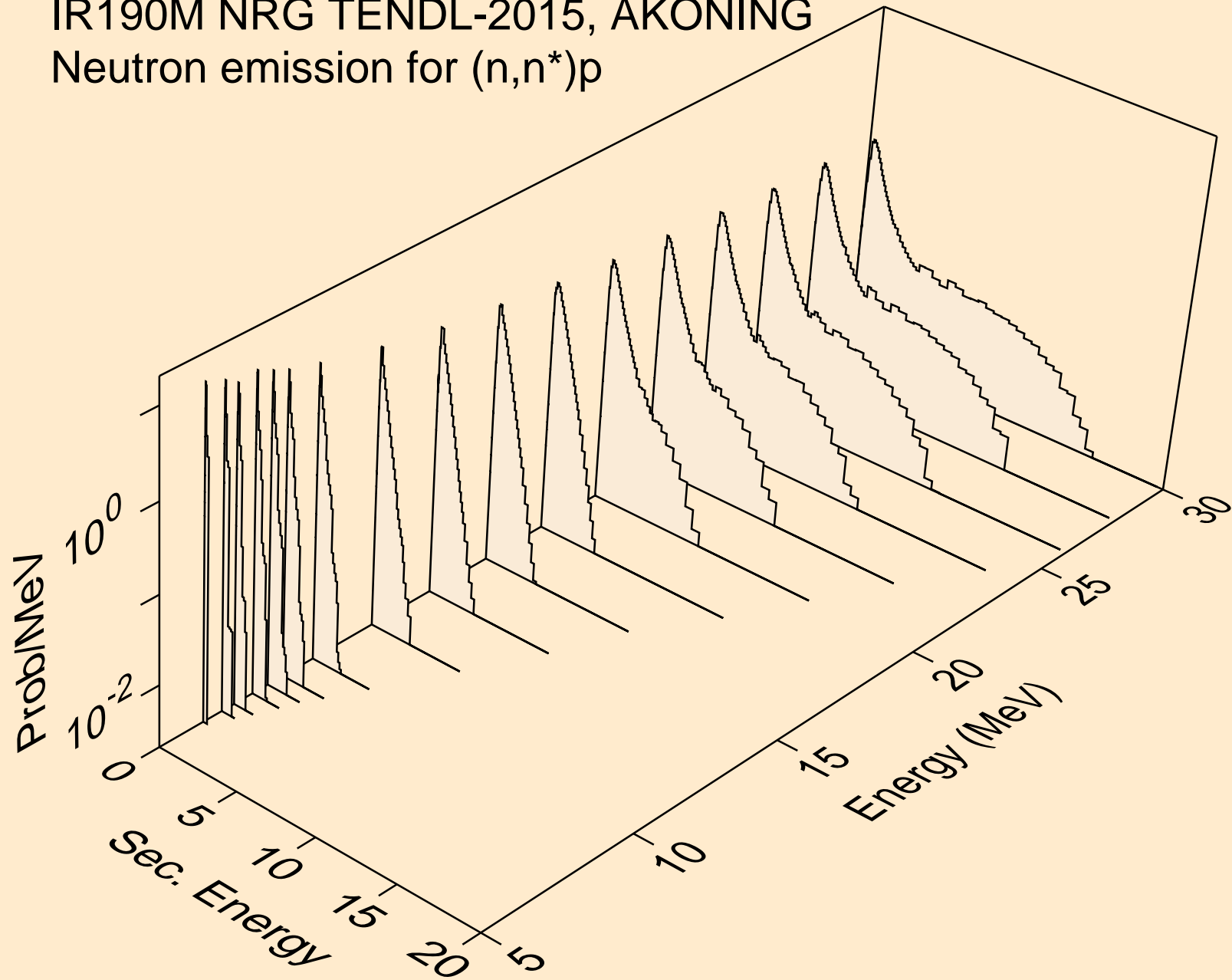


IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)a

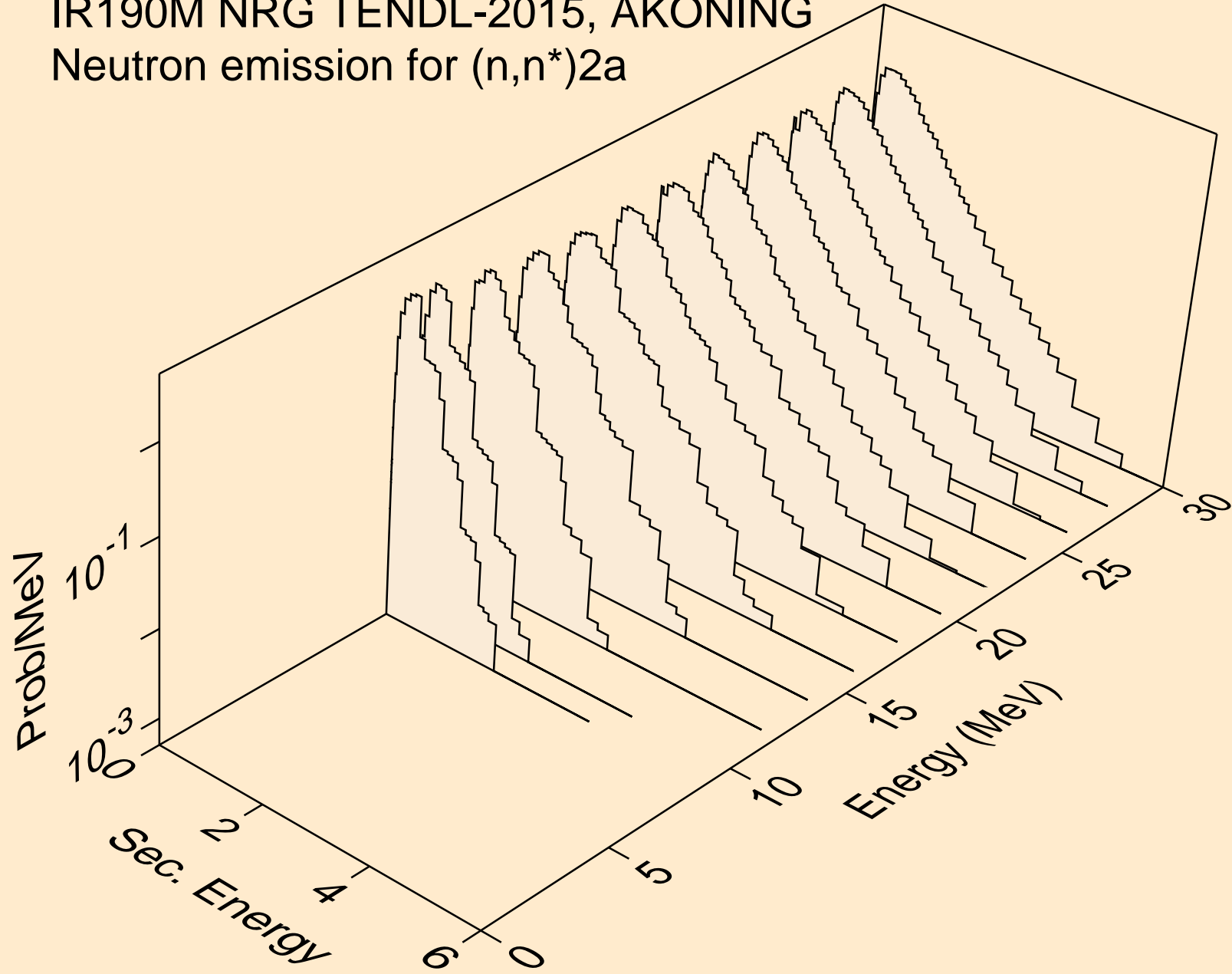




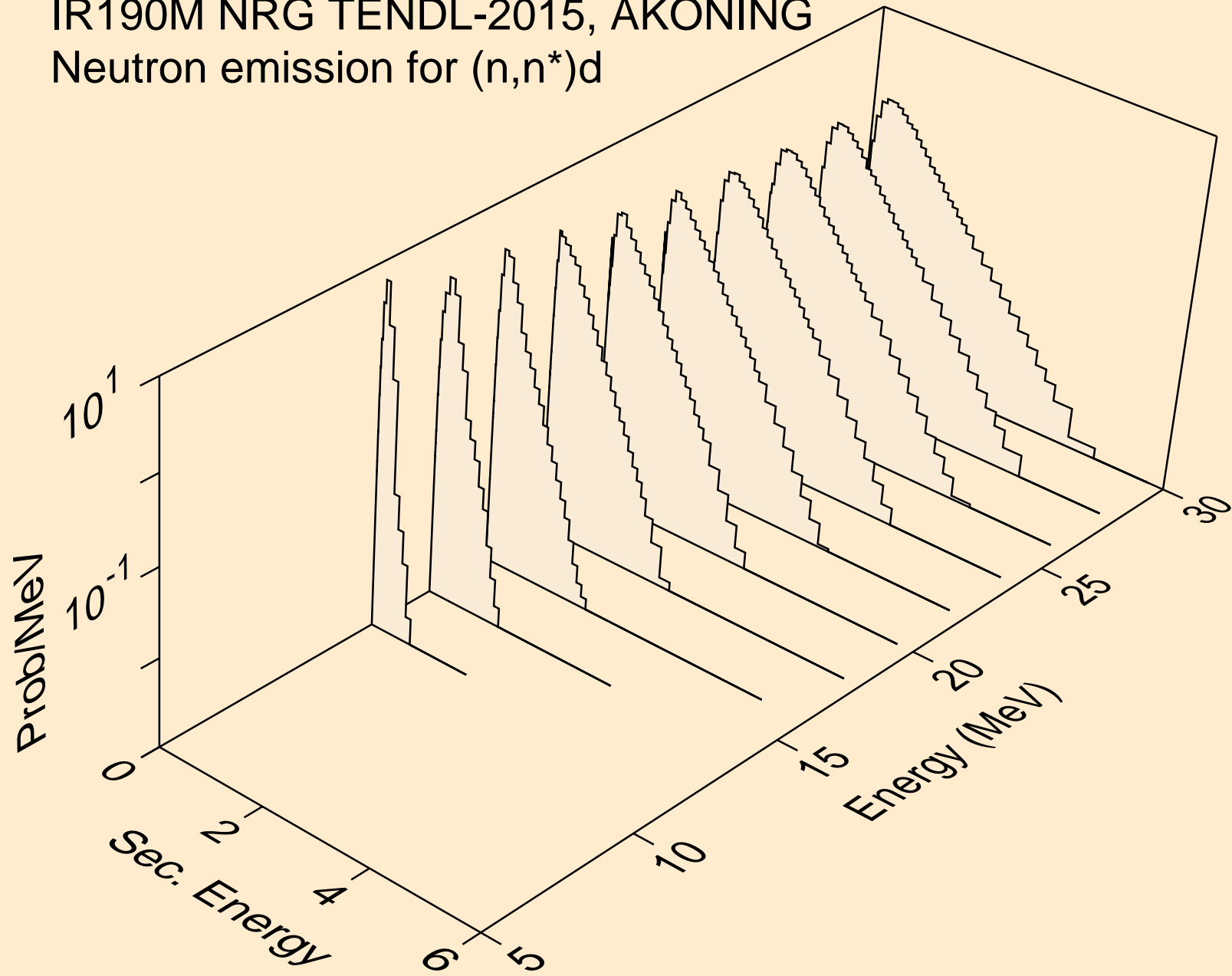
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)p



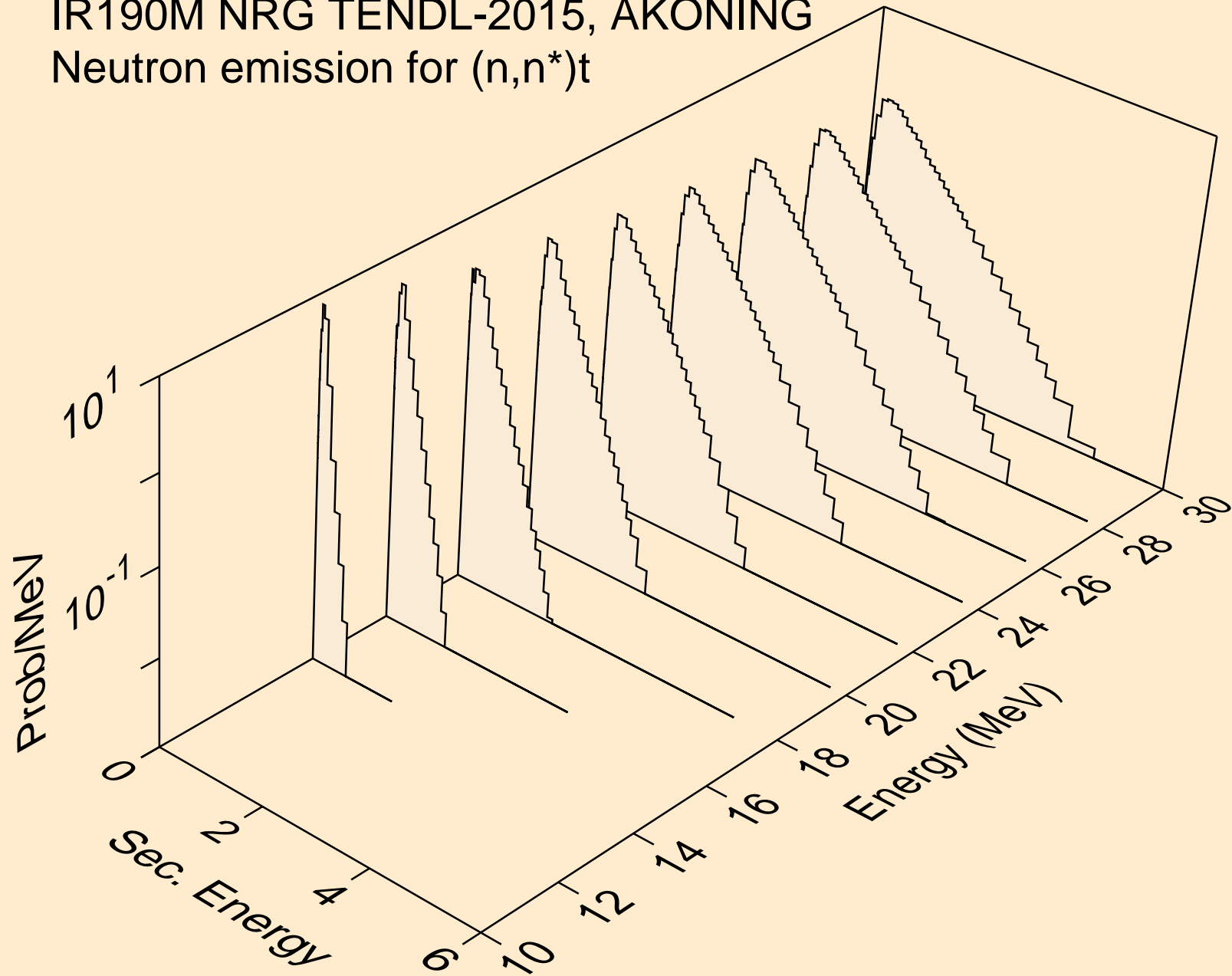
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)2a



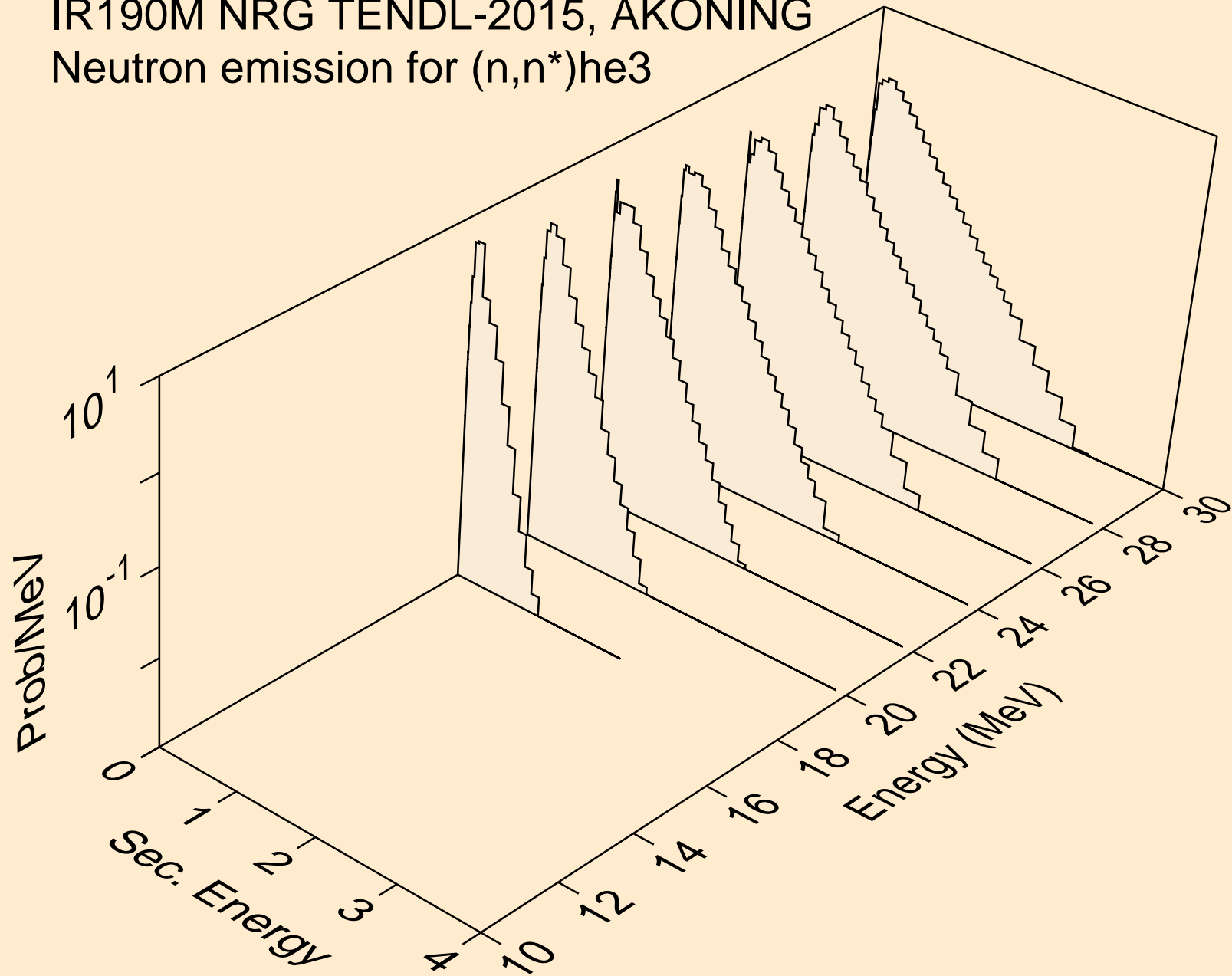
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d



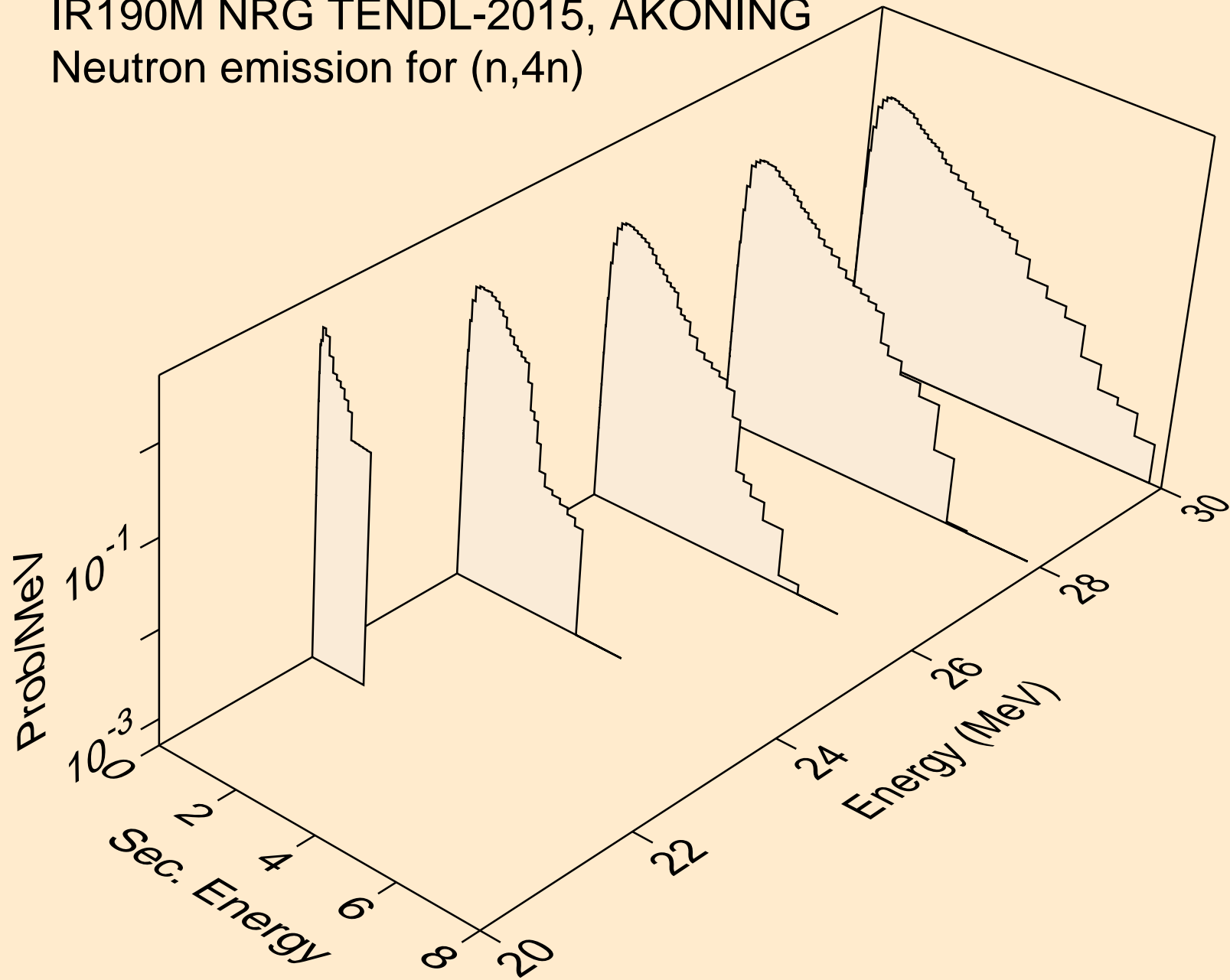
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t



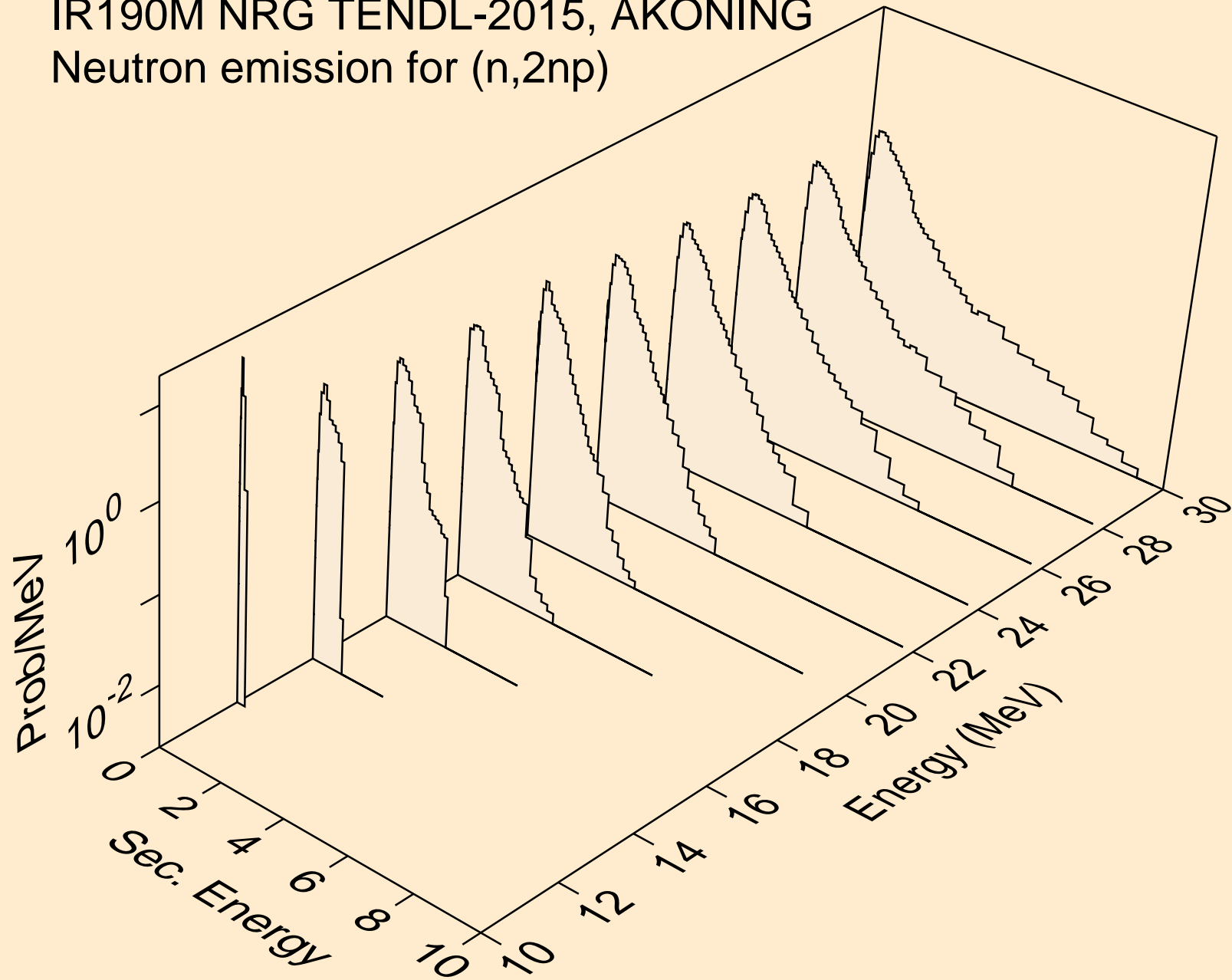
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)he3



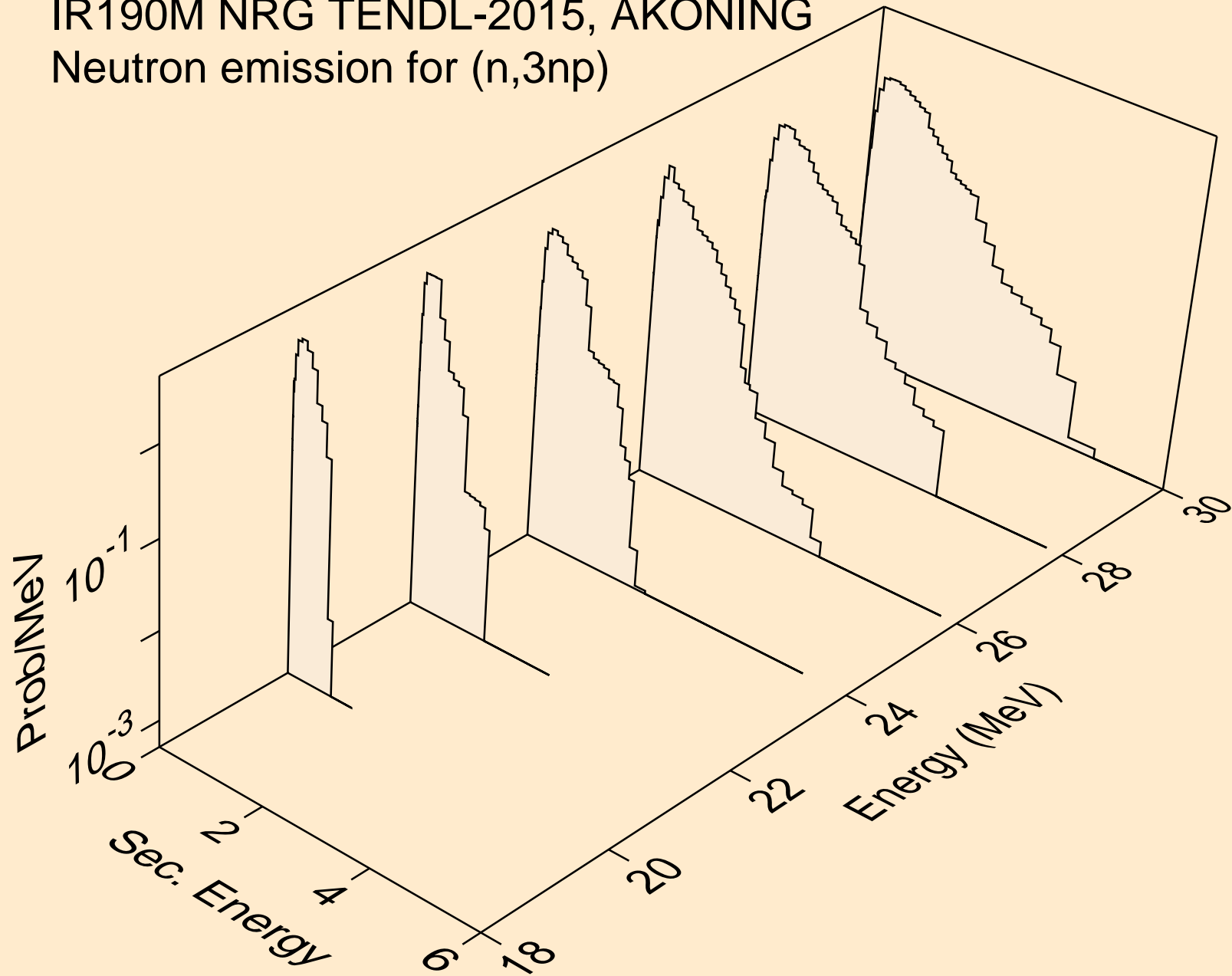
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,4n)



IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)

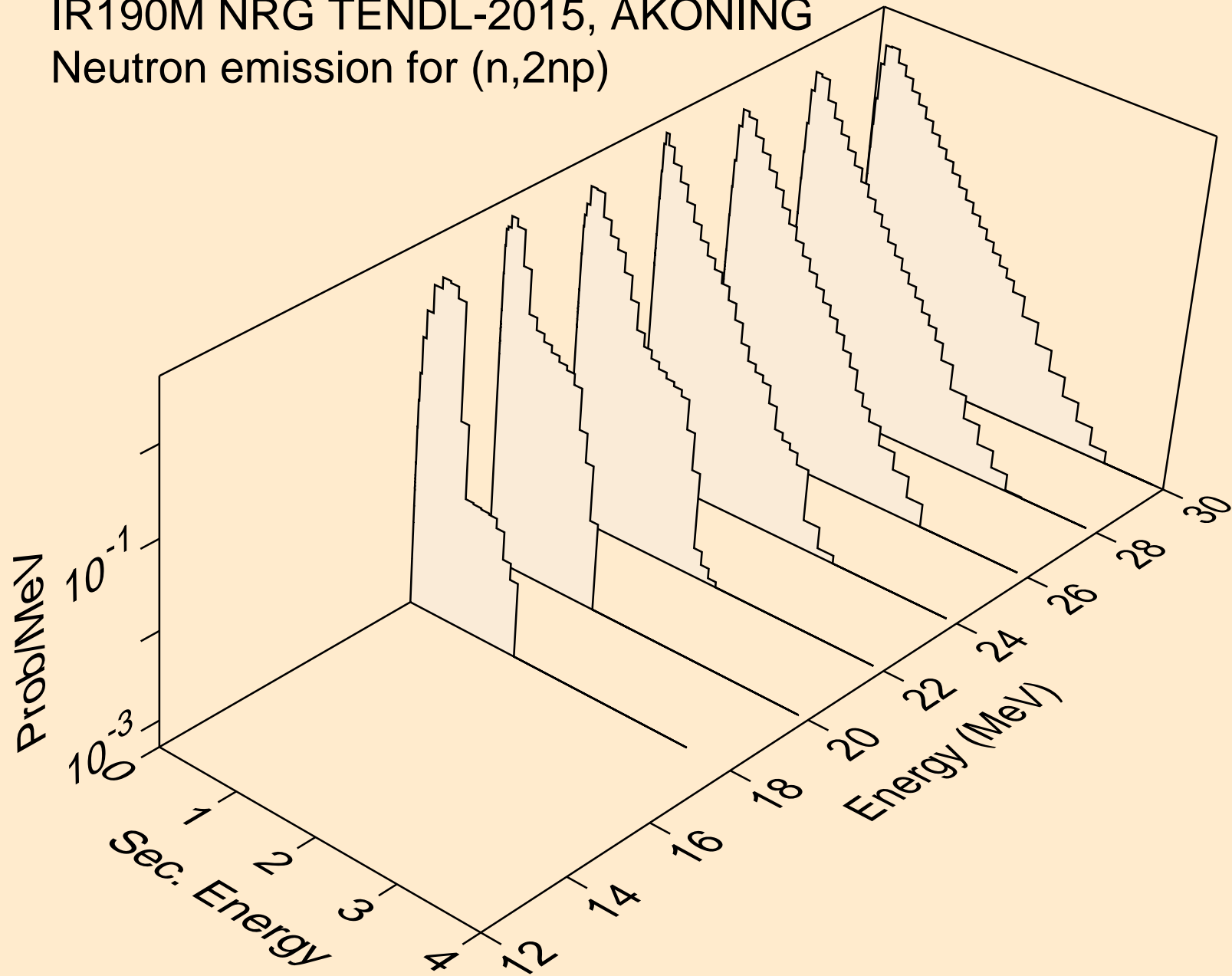


IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,3np)

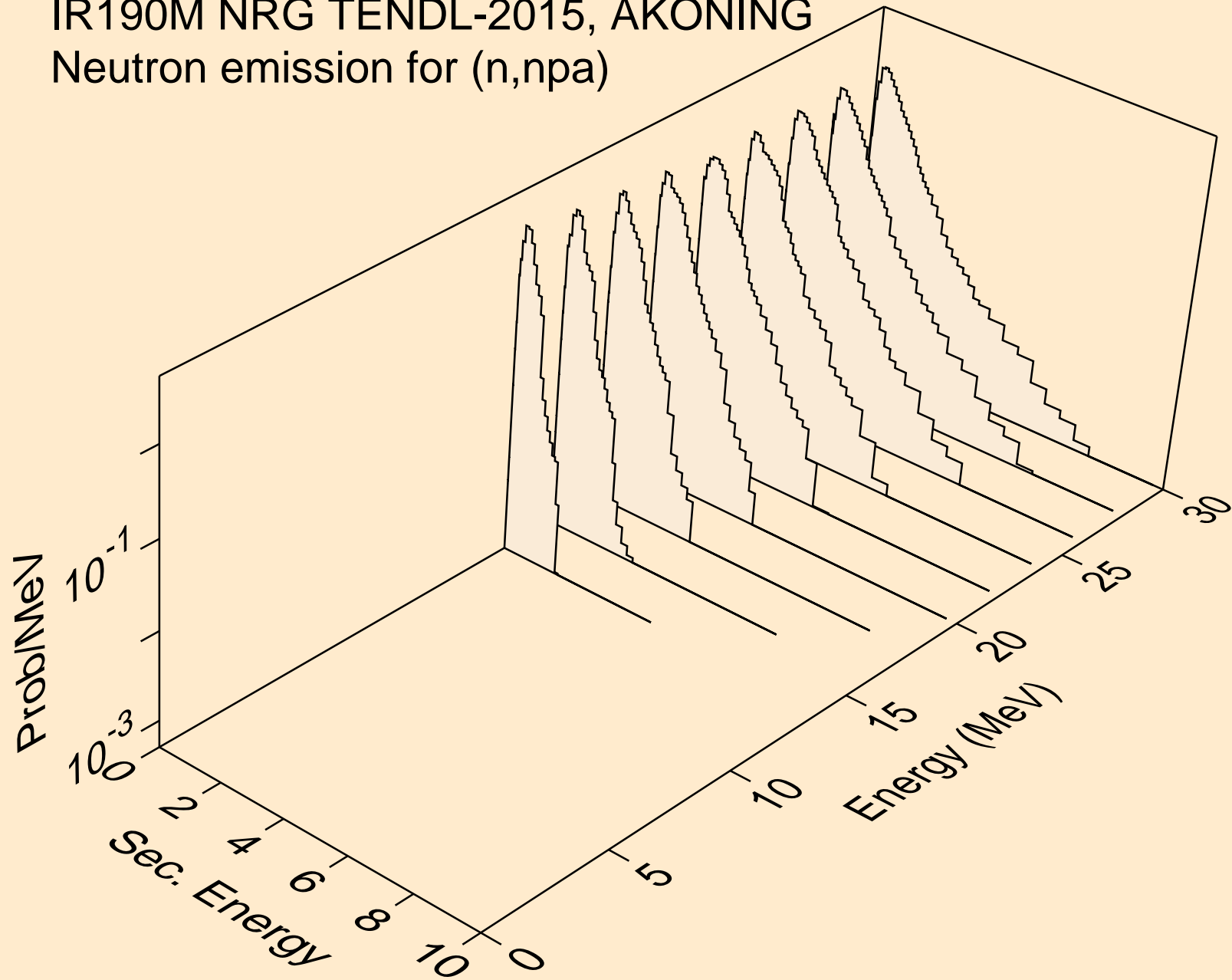




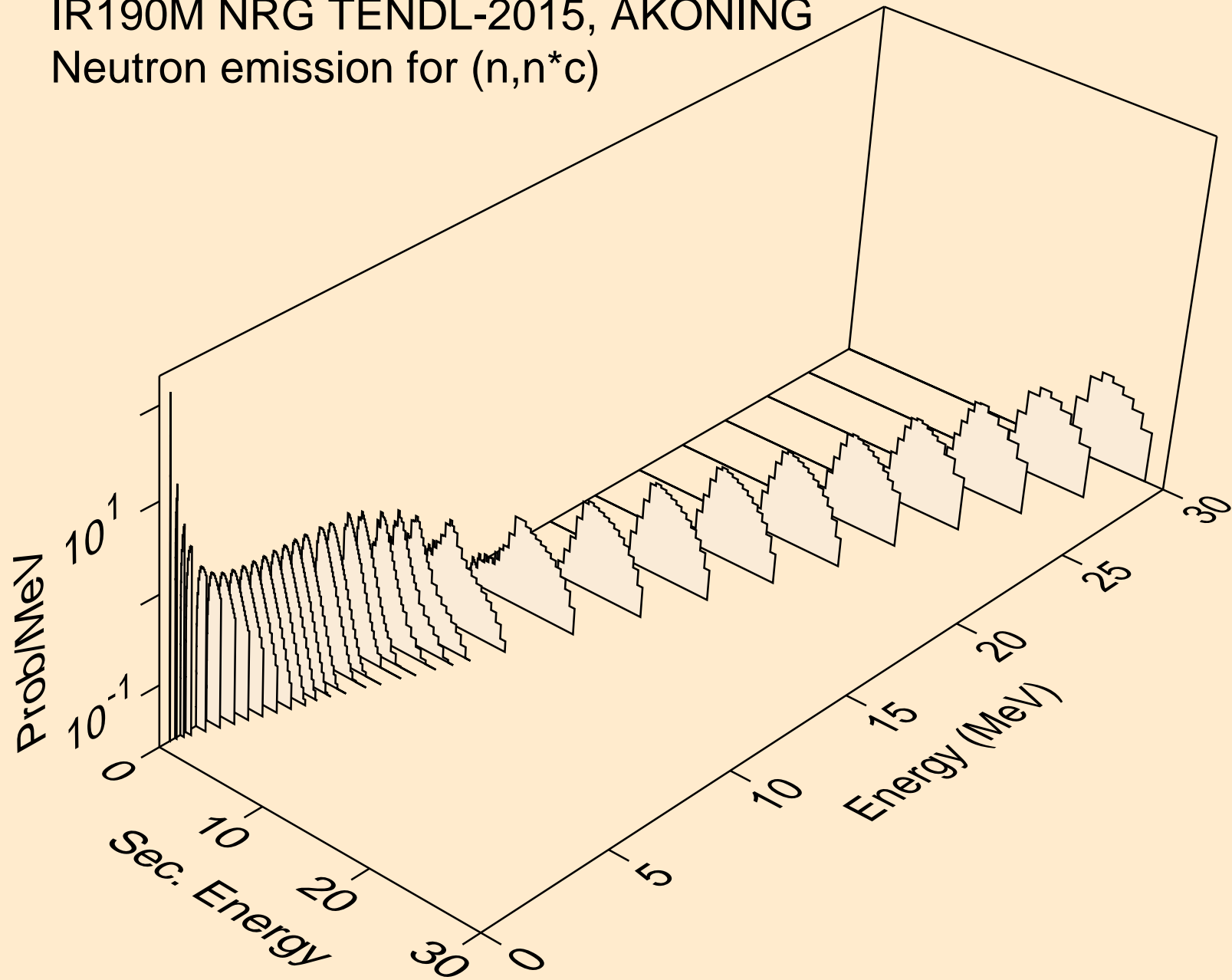
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



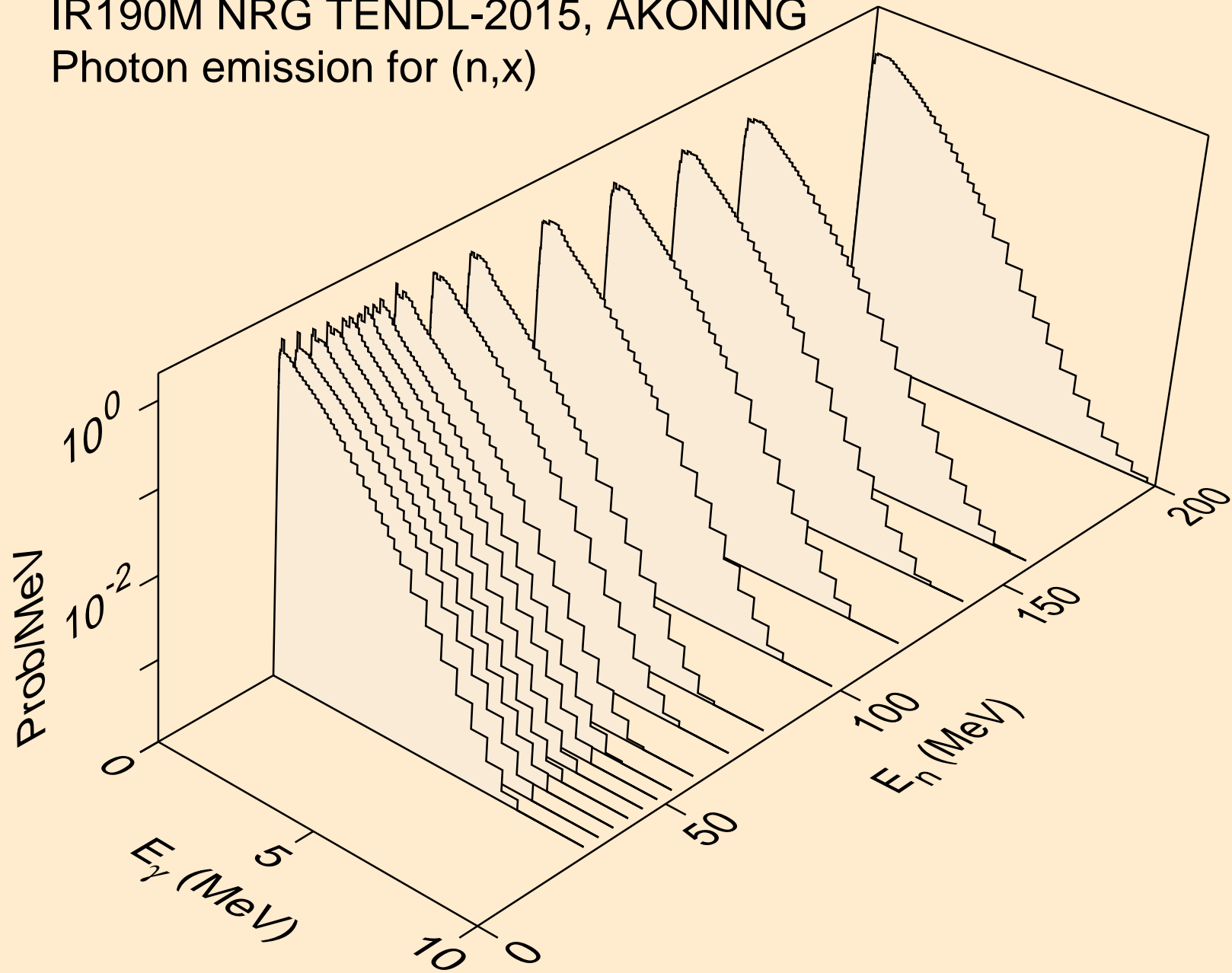
IR190M NRG TENDL-2015, AKONING  
Neutron emission for (n,npa)



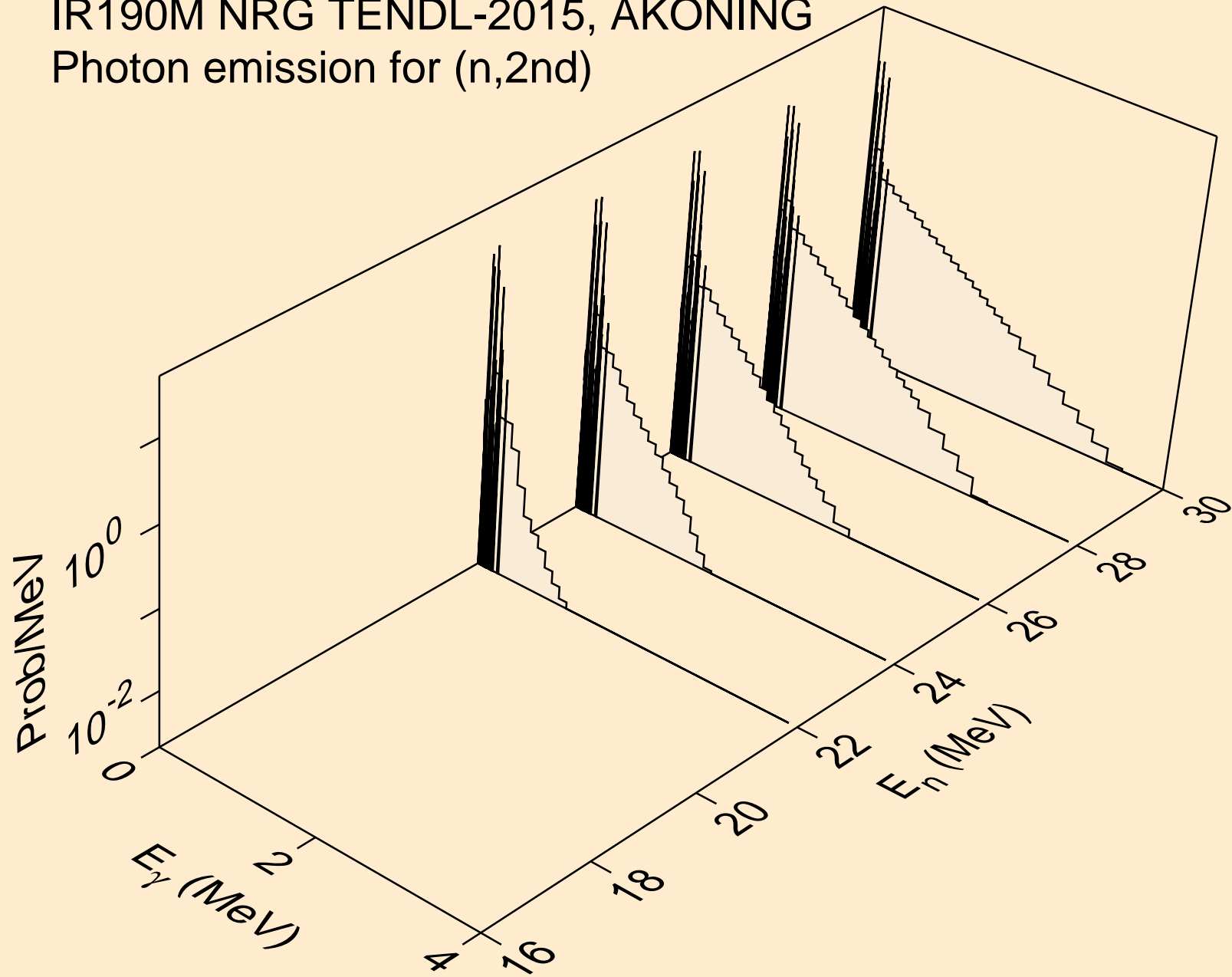
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Neutron emission for (n,n\*c)



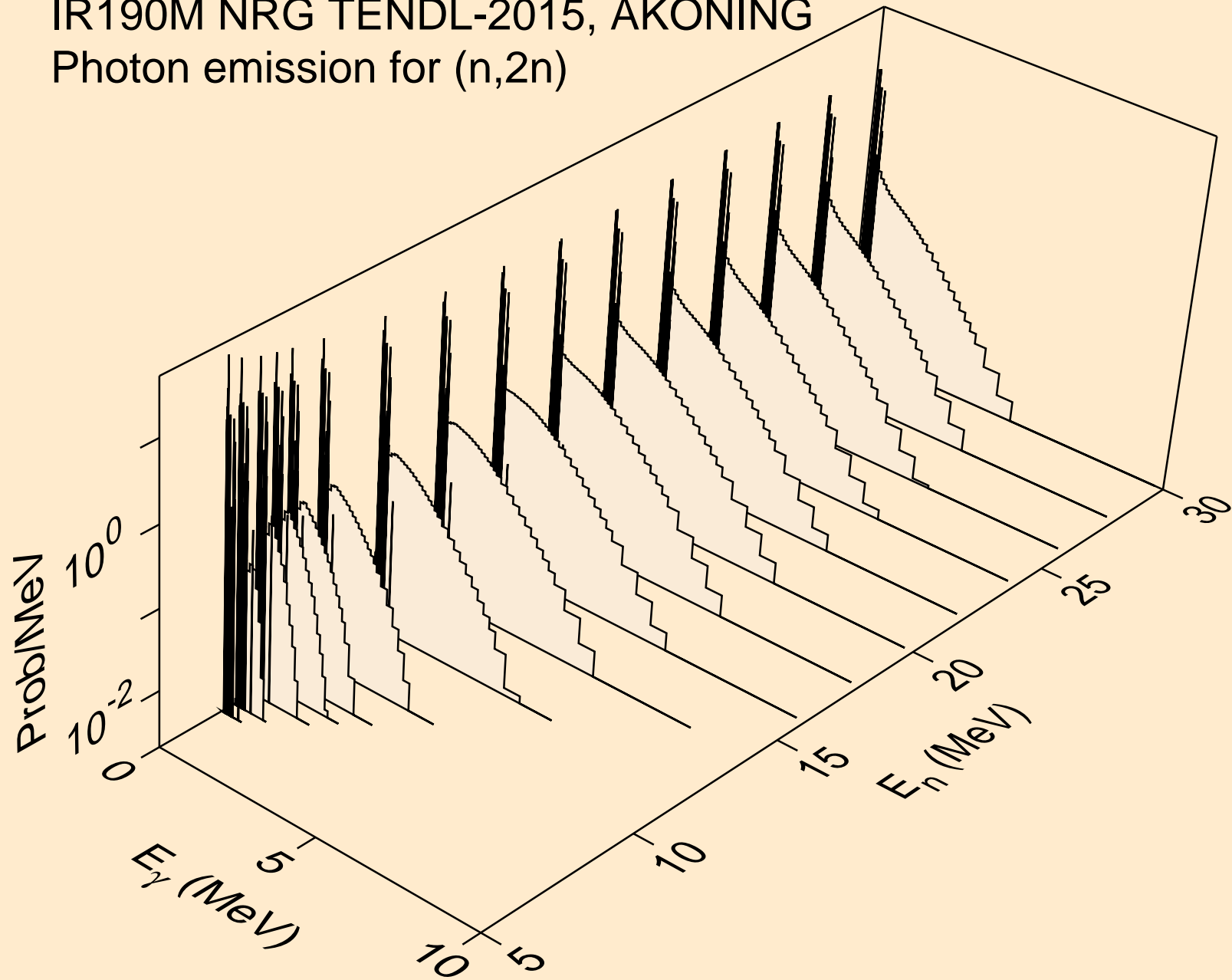
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,x)



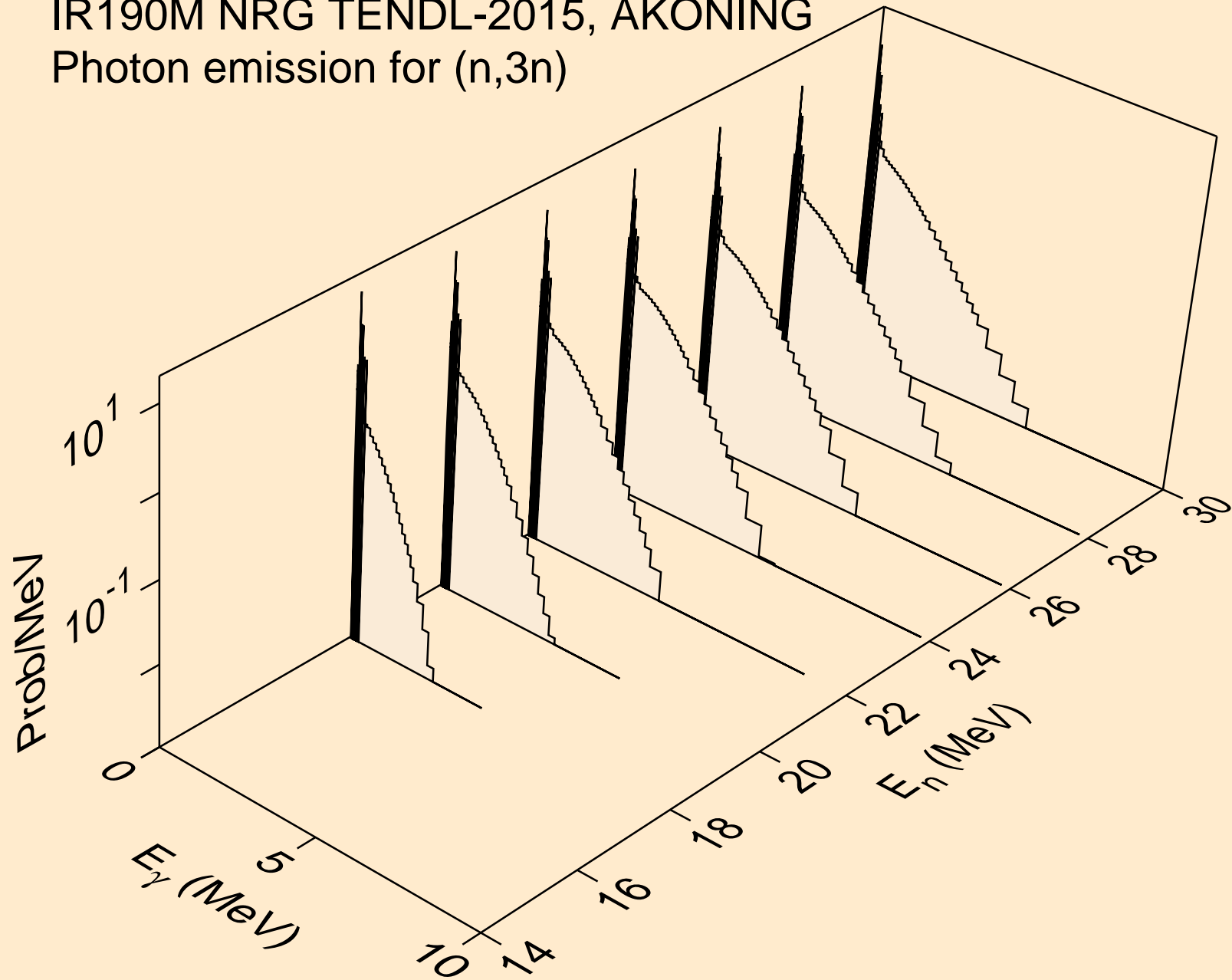
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,2nd)



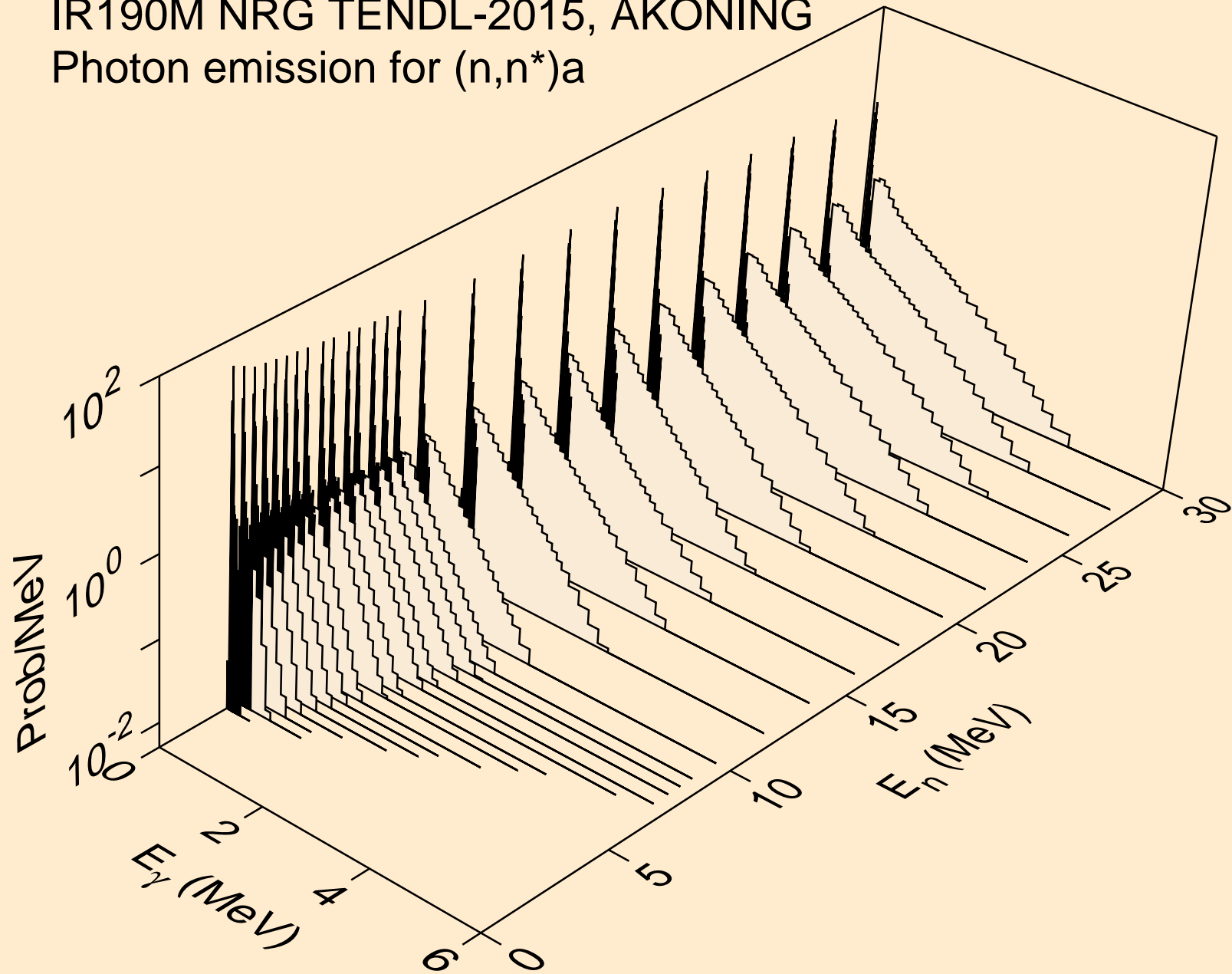
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,2n)



IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,3n)

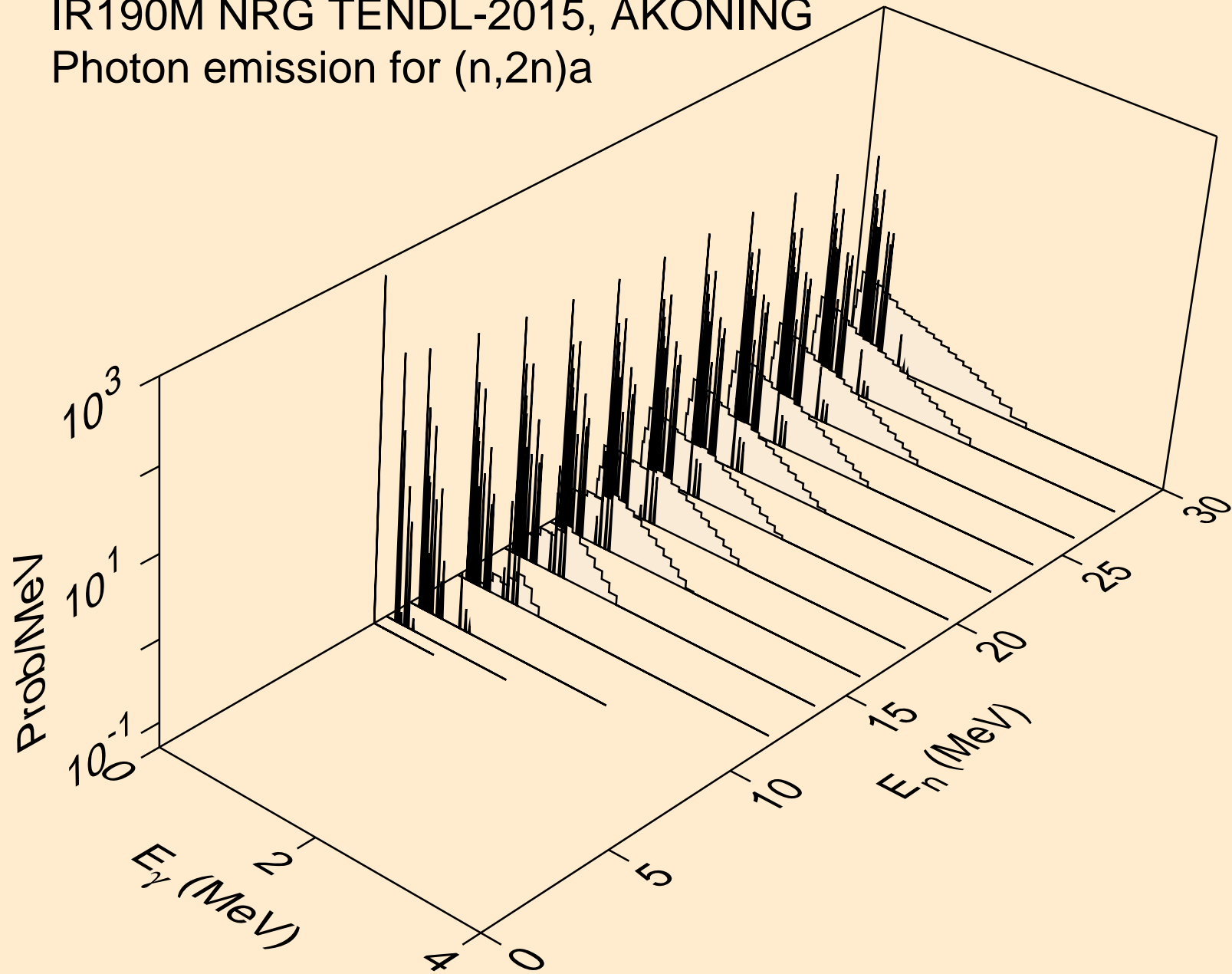


IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)a

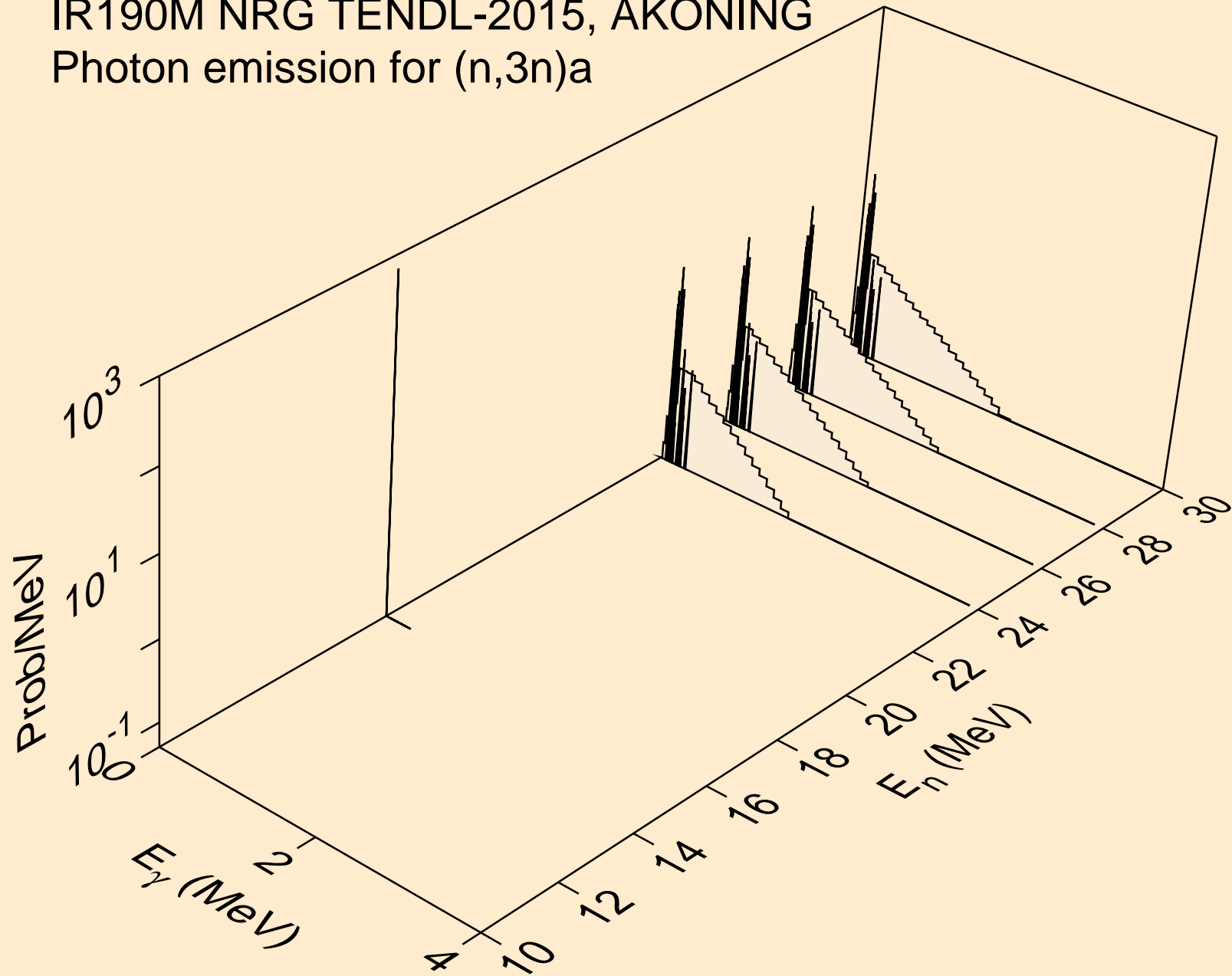




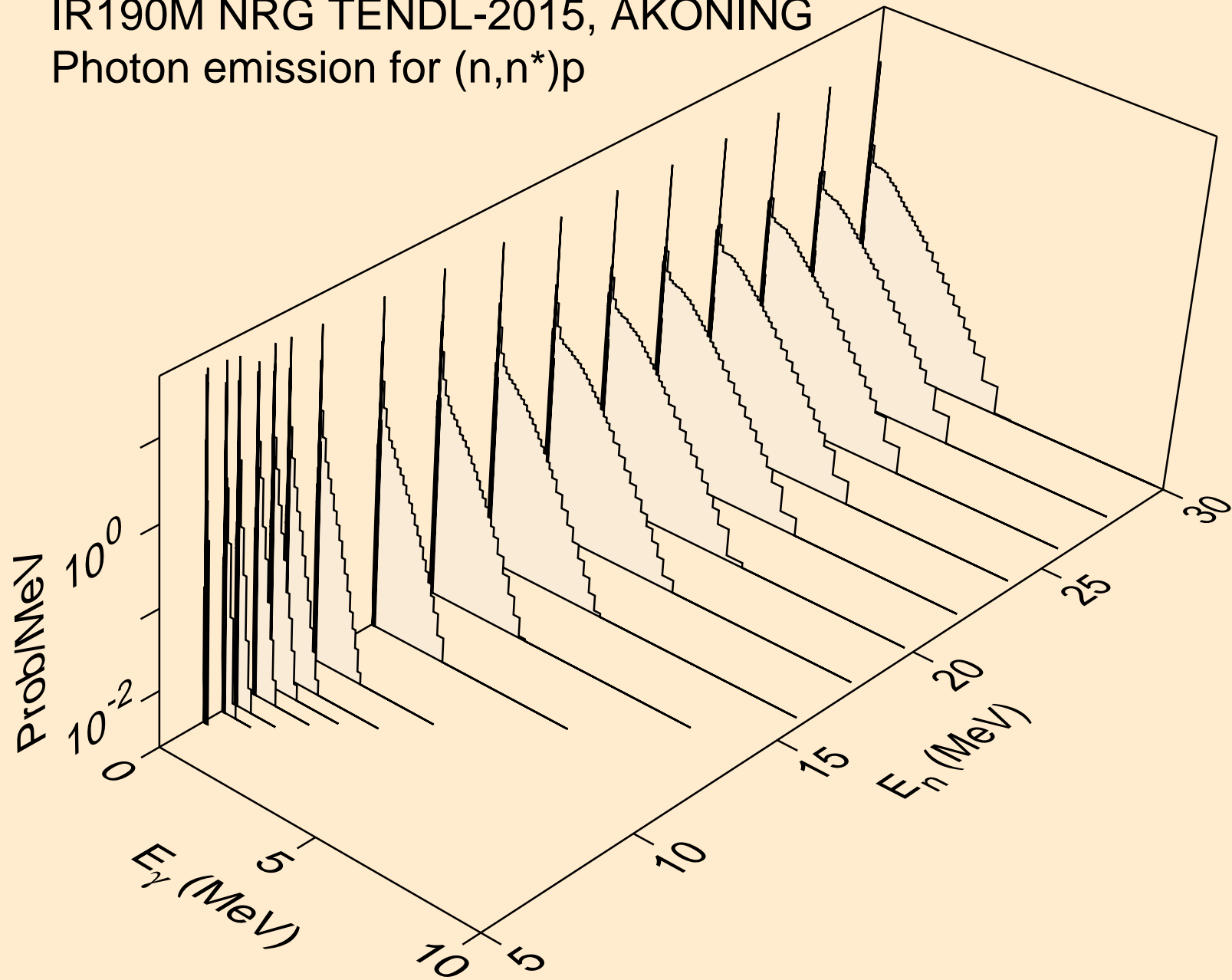
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,2n)a



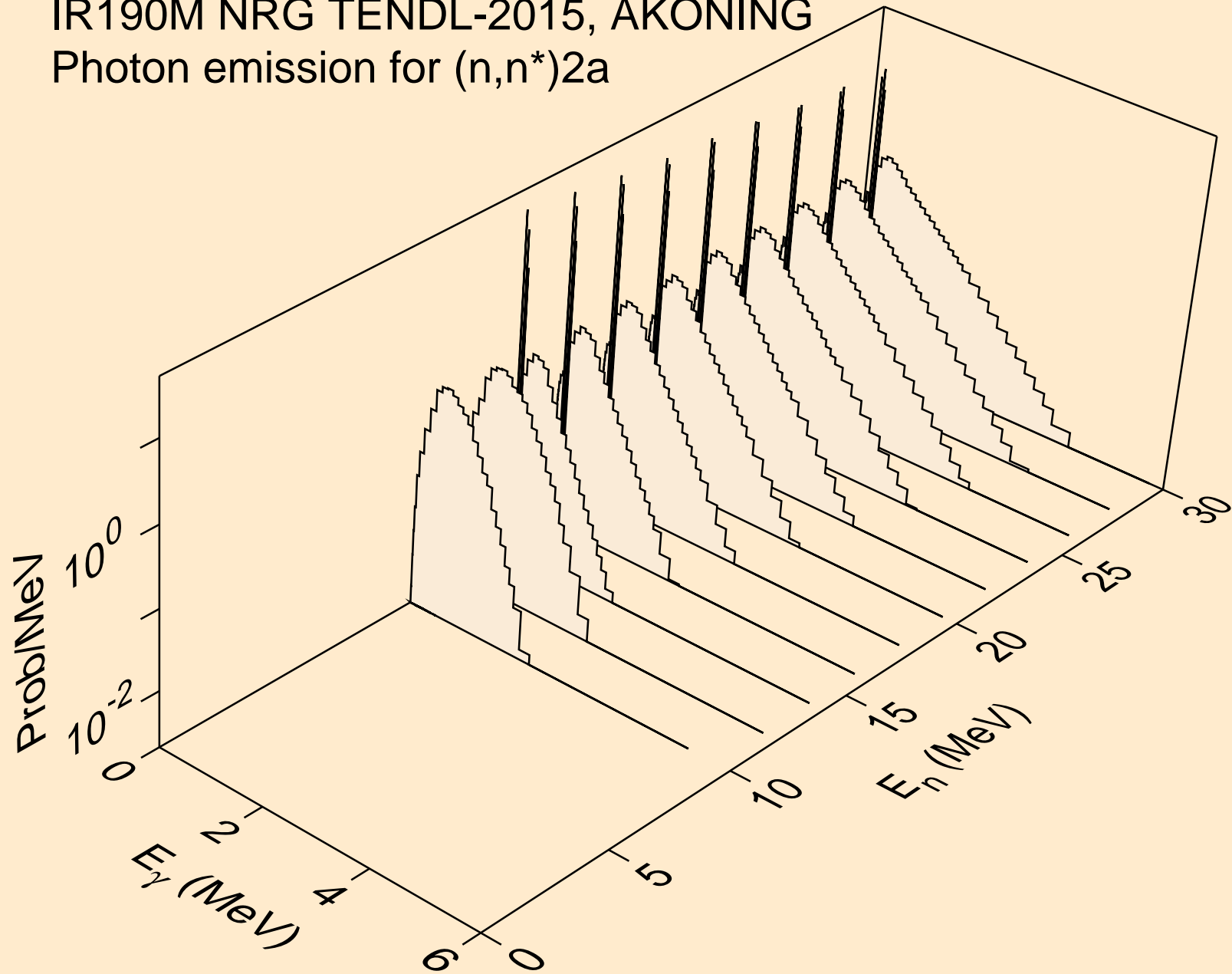
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,3n)a



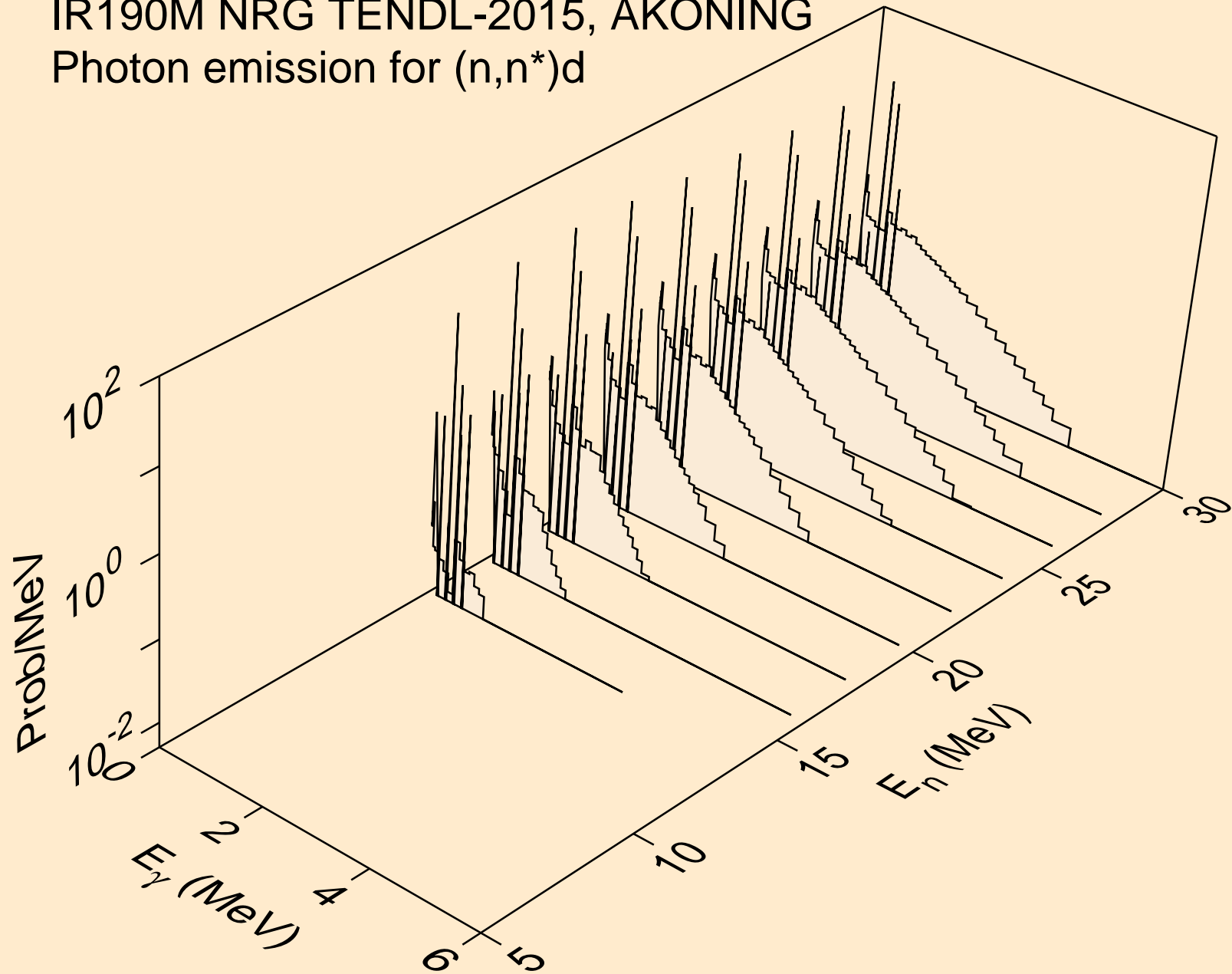
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)p



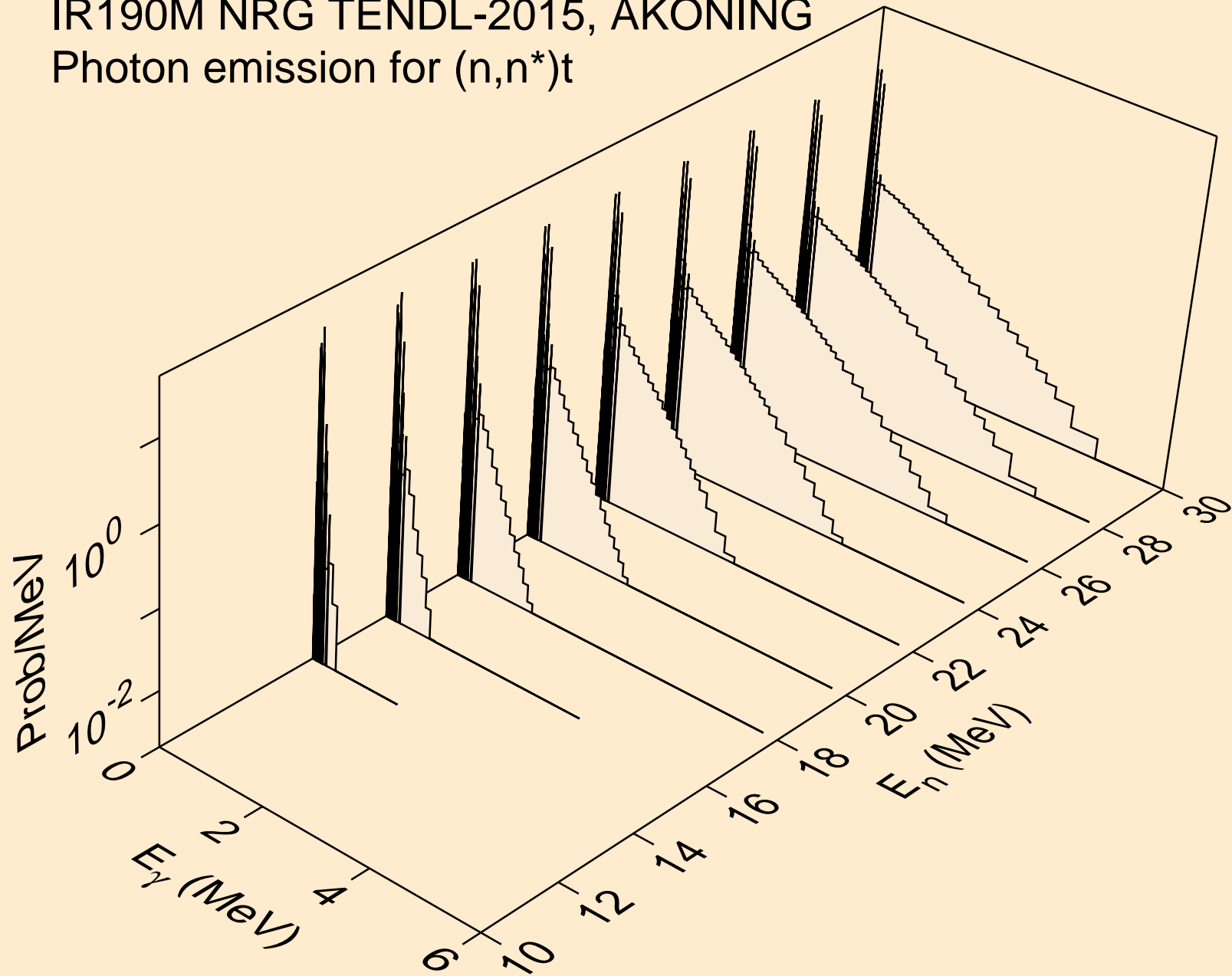
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Photon emission for (n,n\*)2a



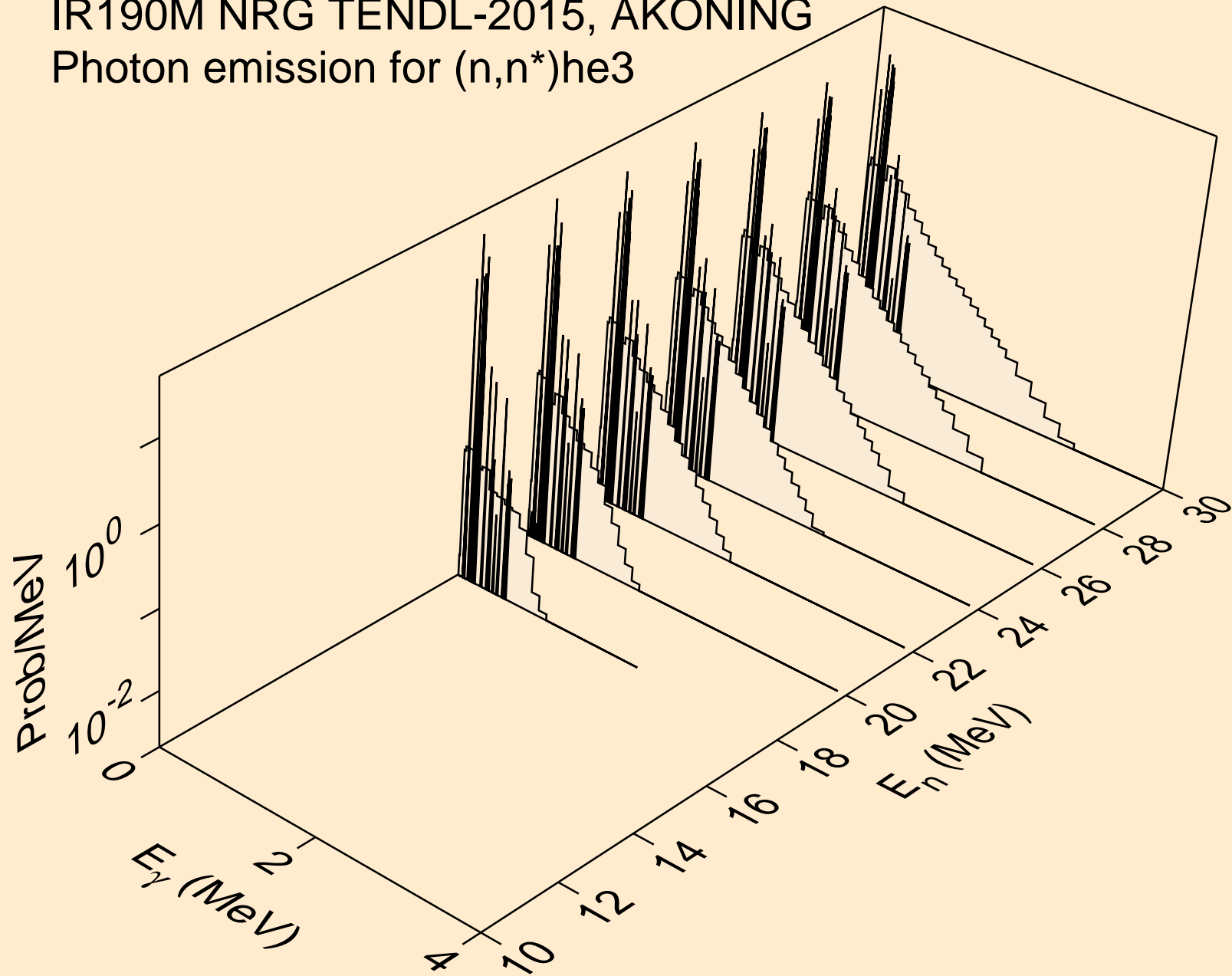
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d



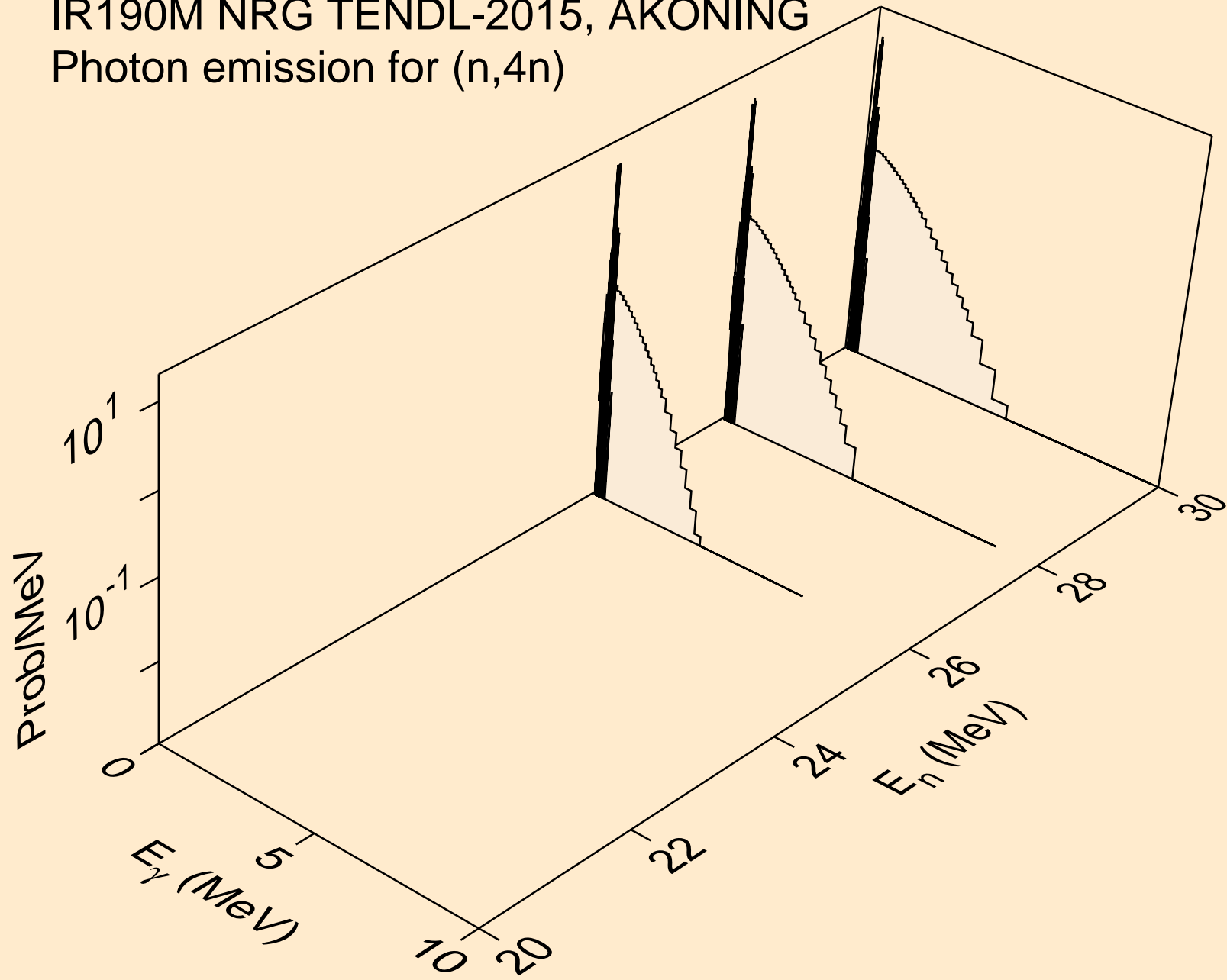
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t



IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)he3

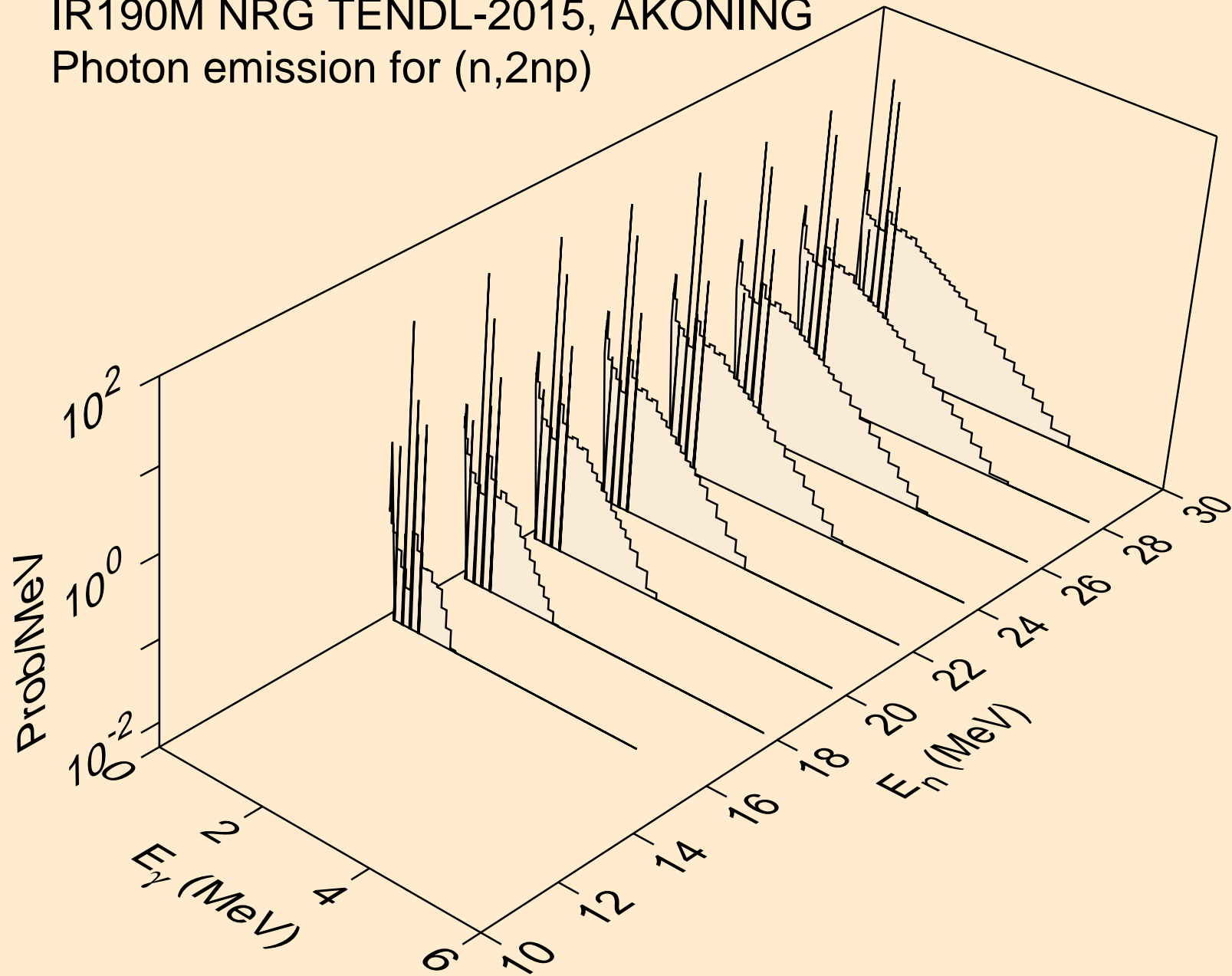


IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,4n)

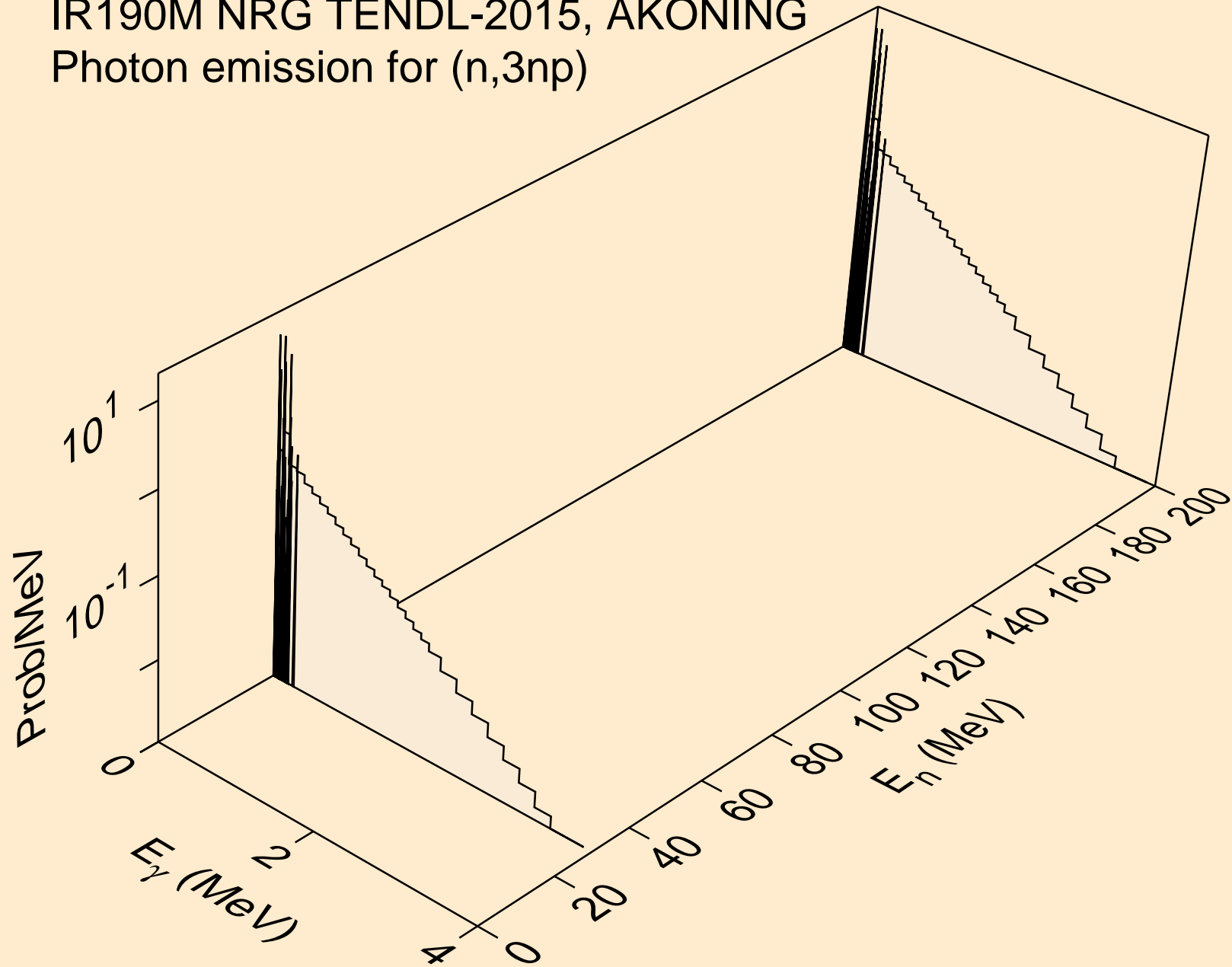




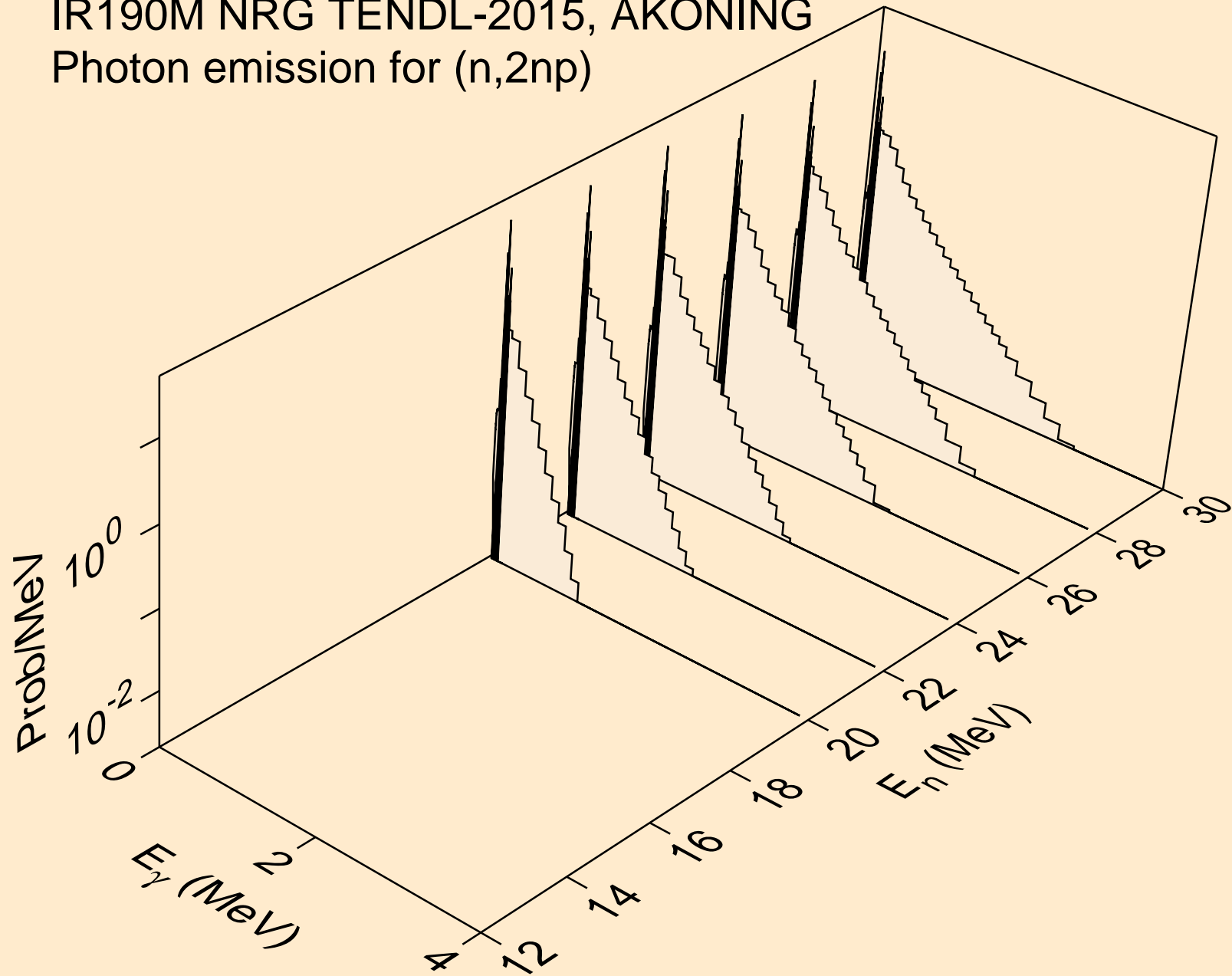
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



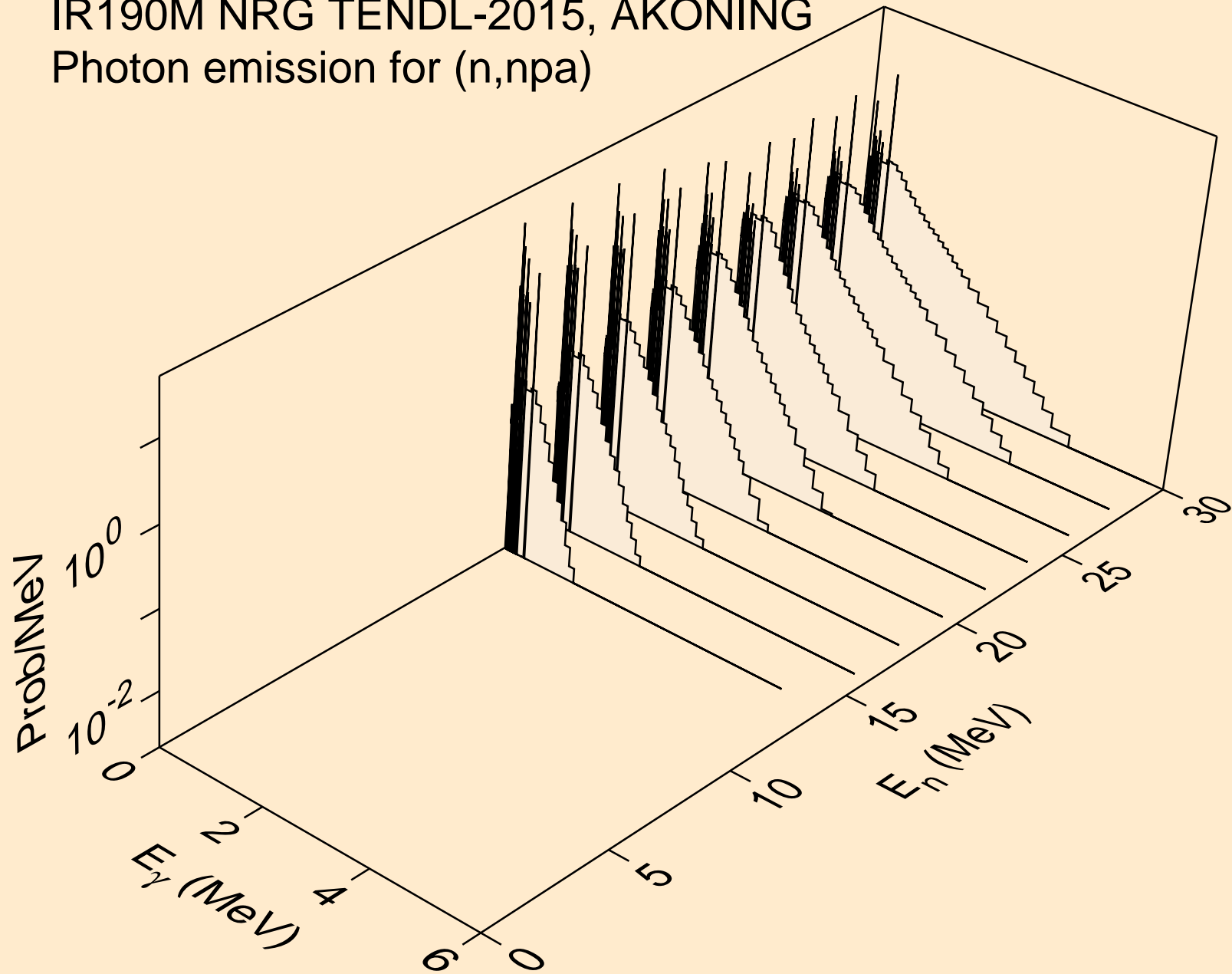
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,3np)



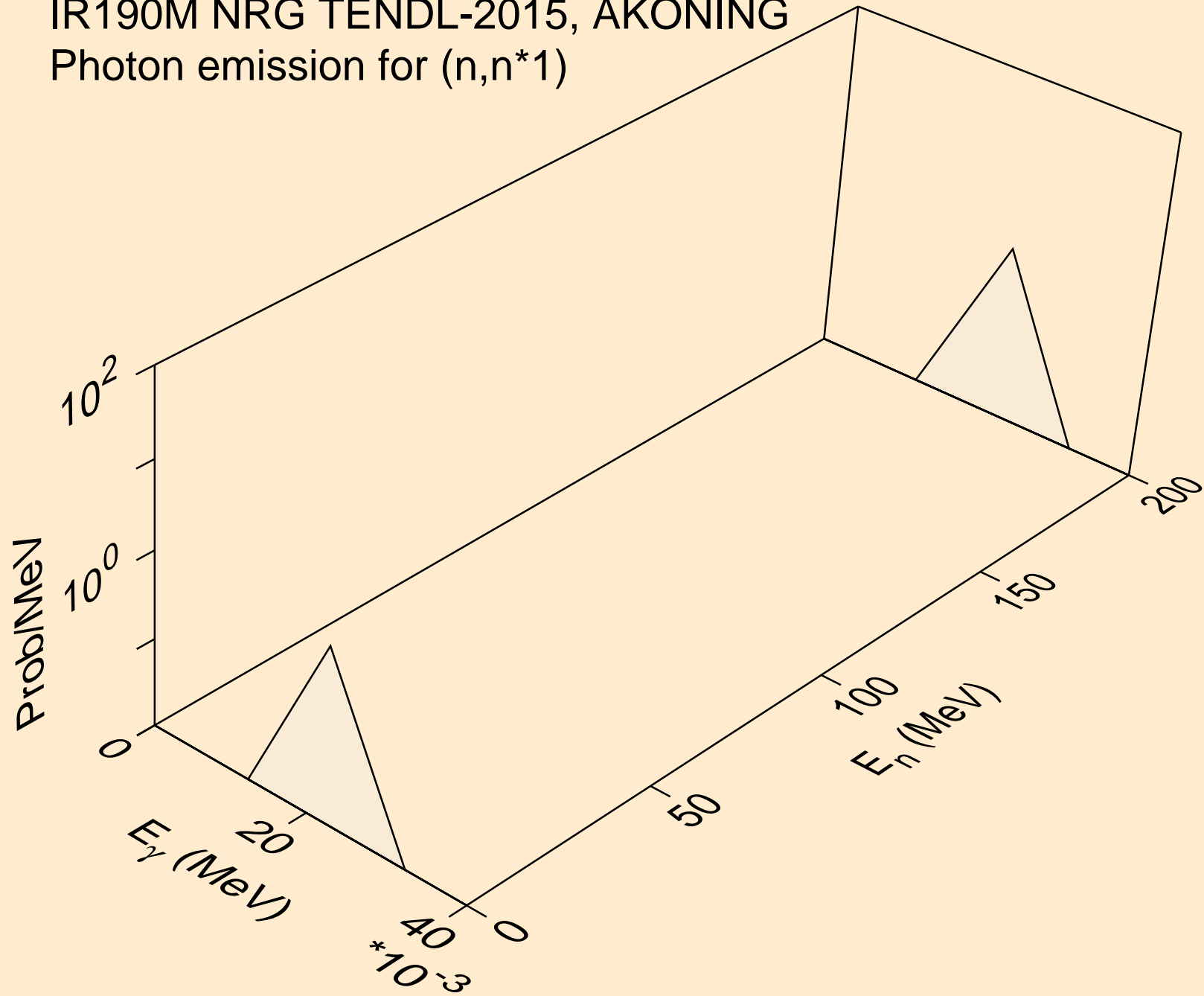
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



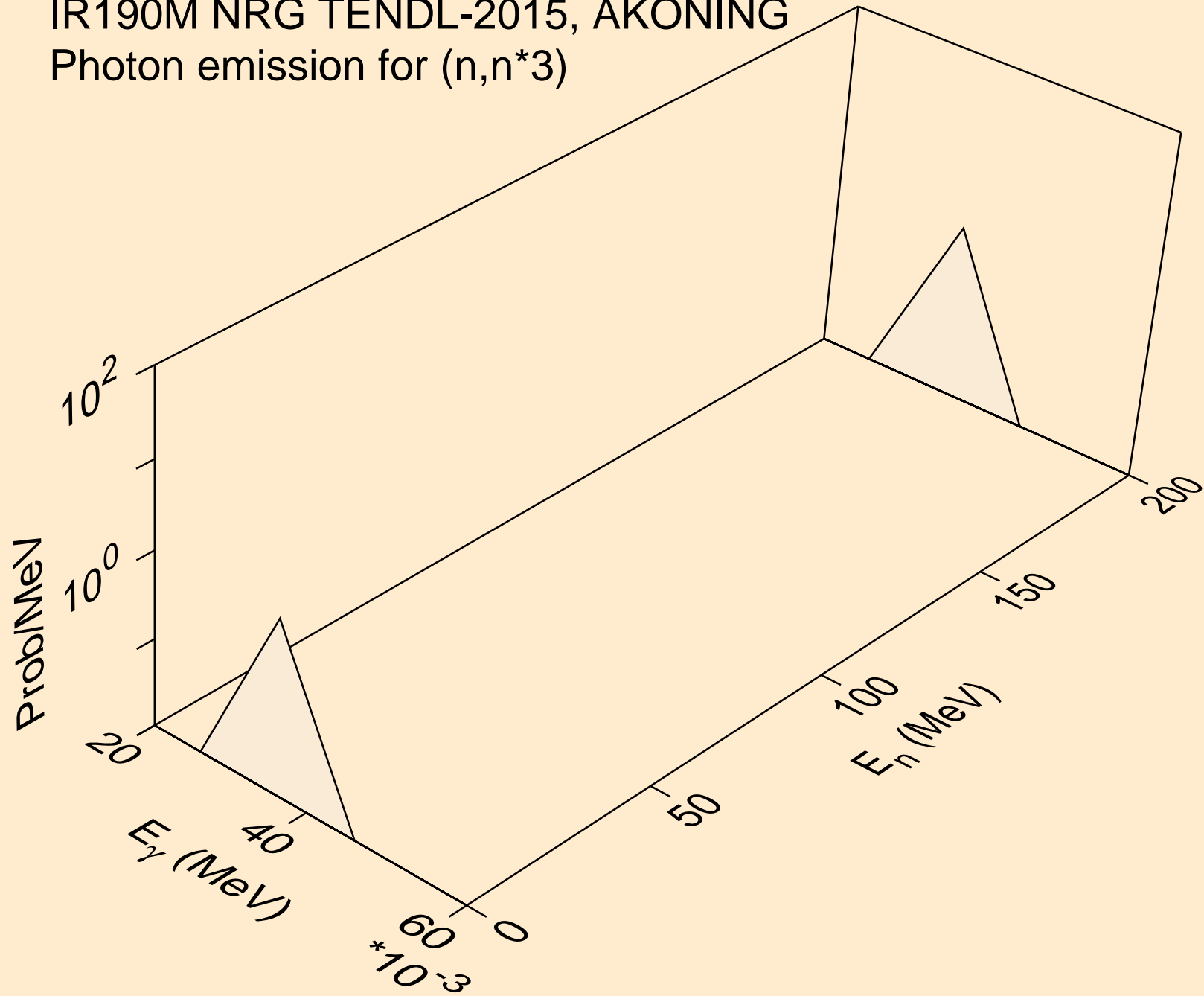
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,npa)



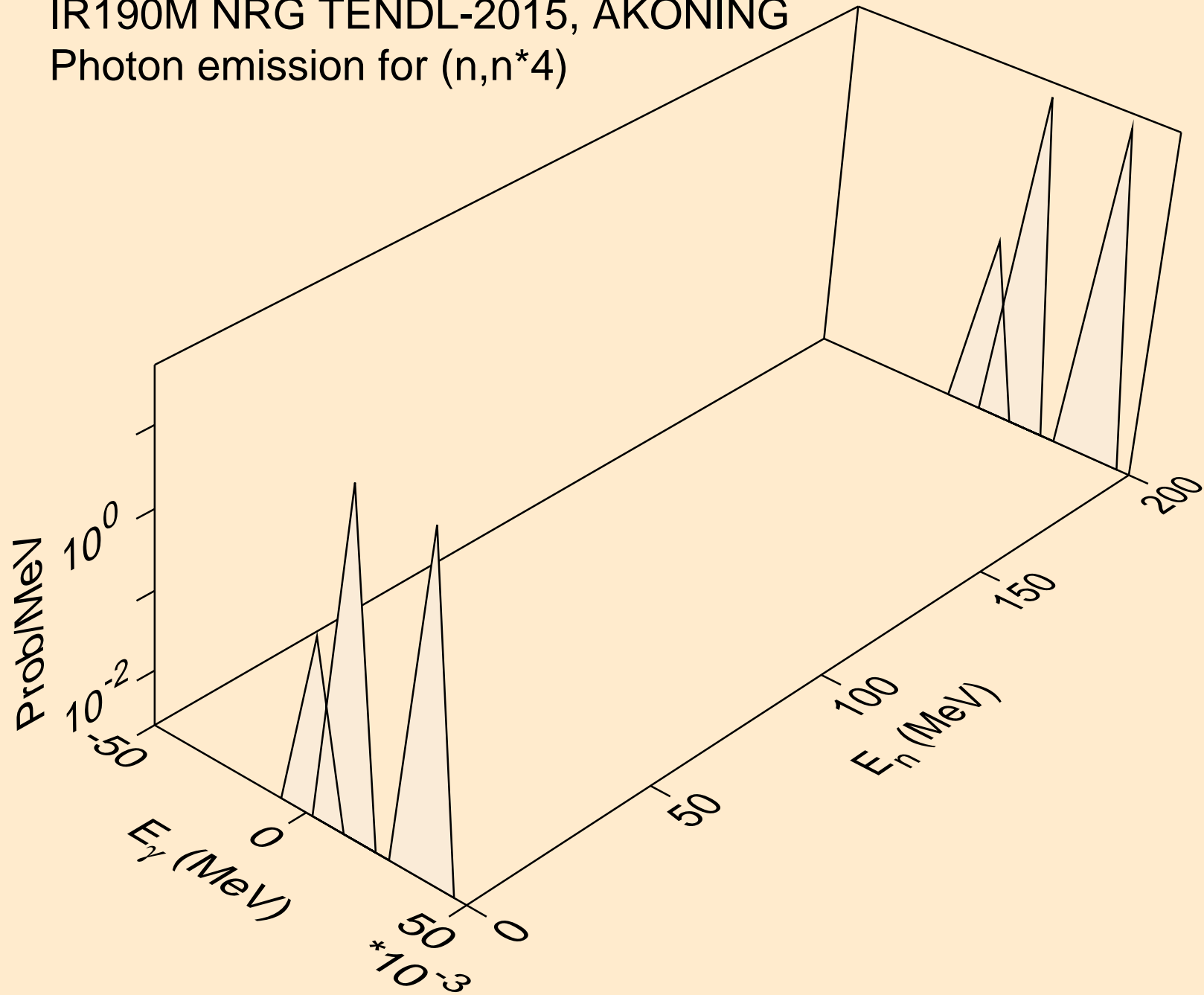
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*1)



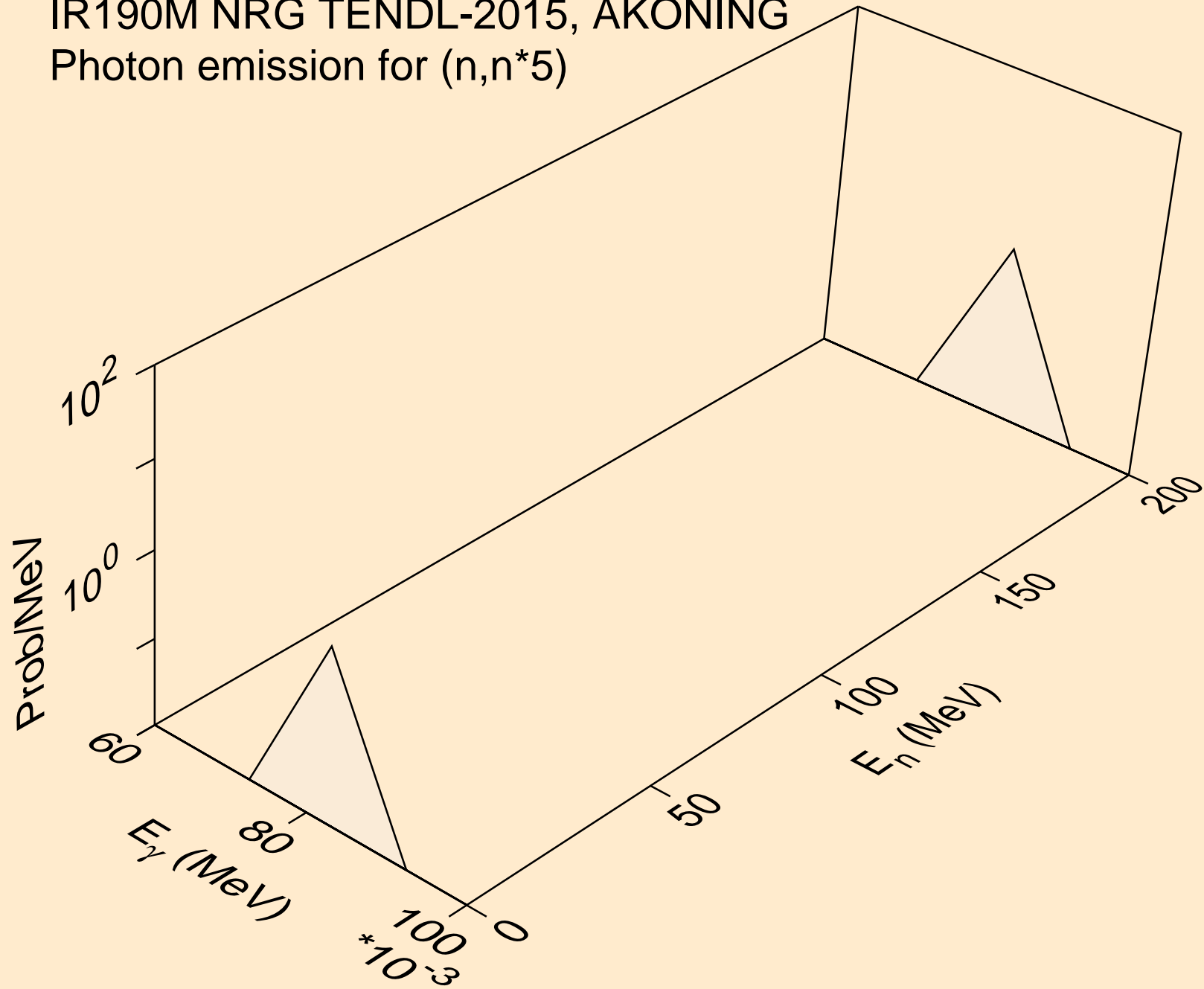
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*3)



IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*4)

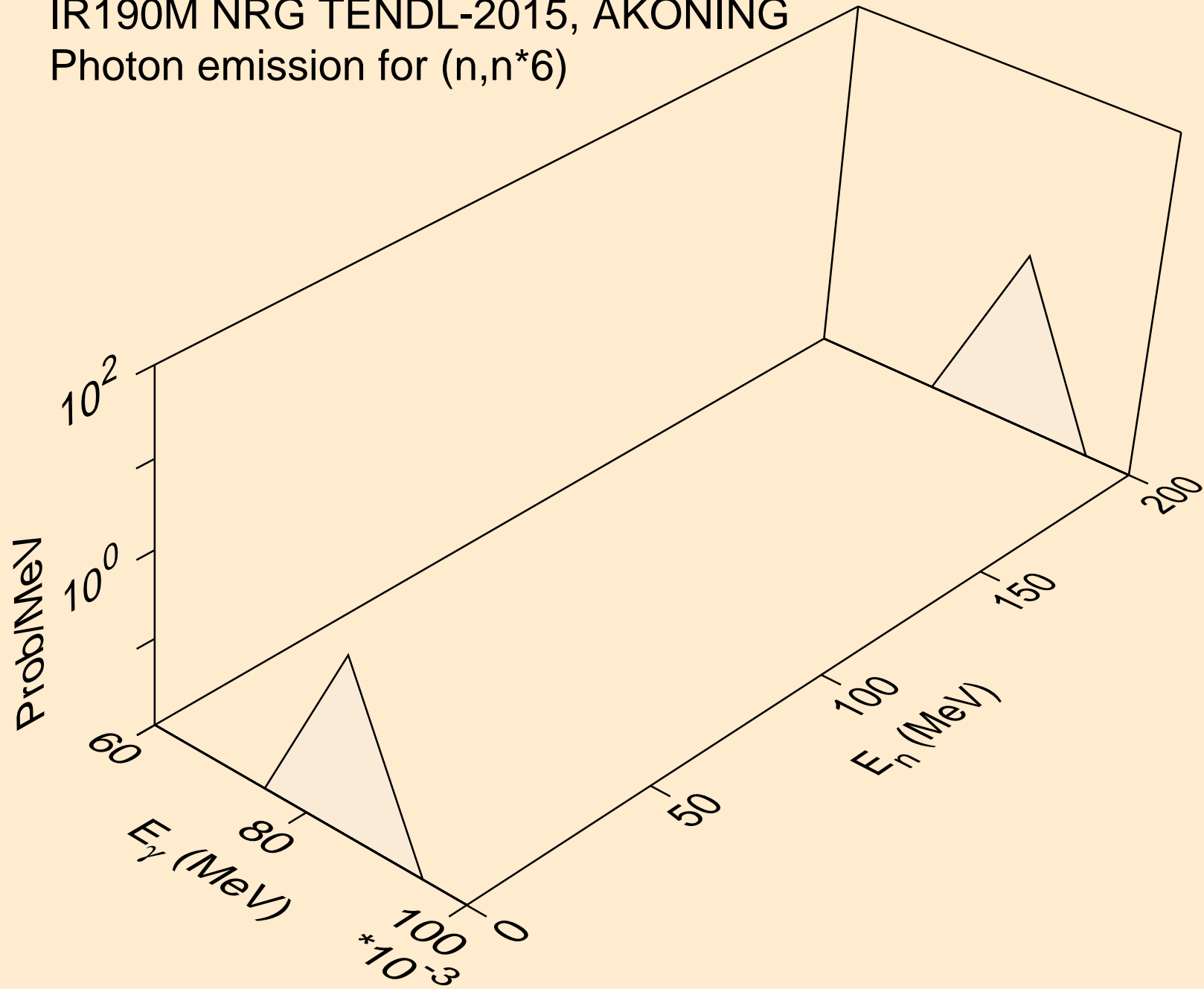


IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*5)

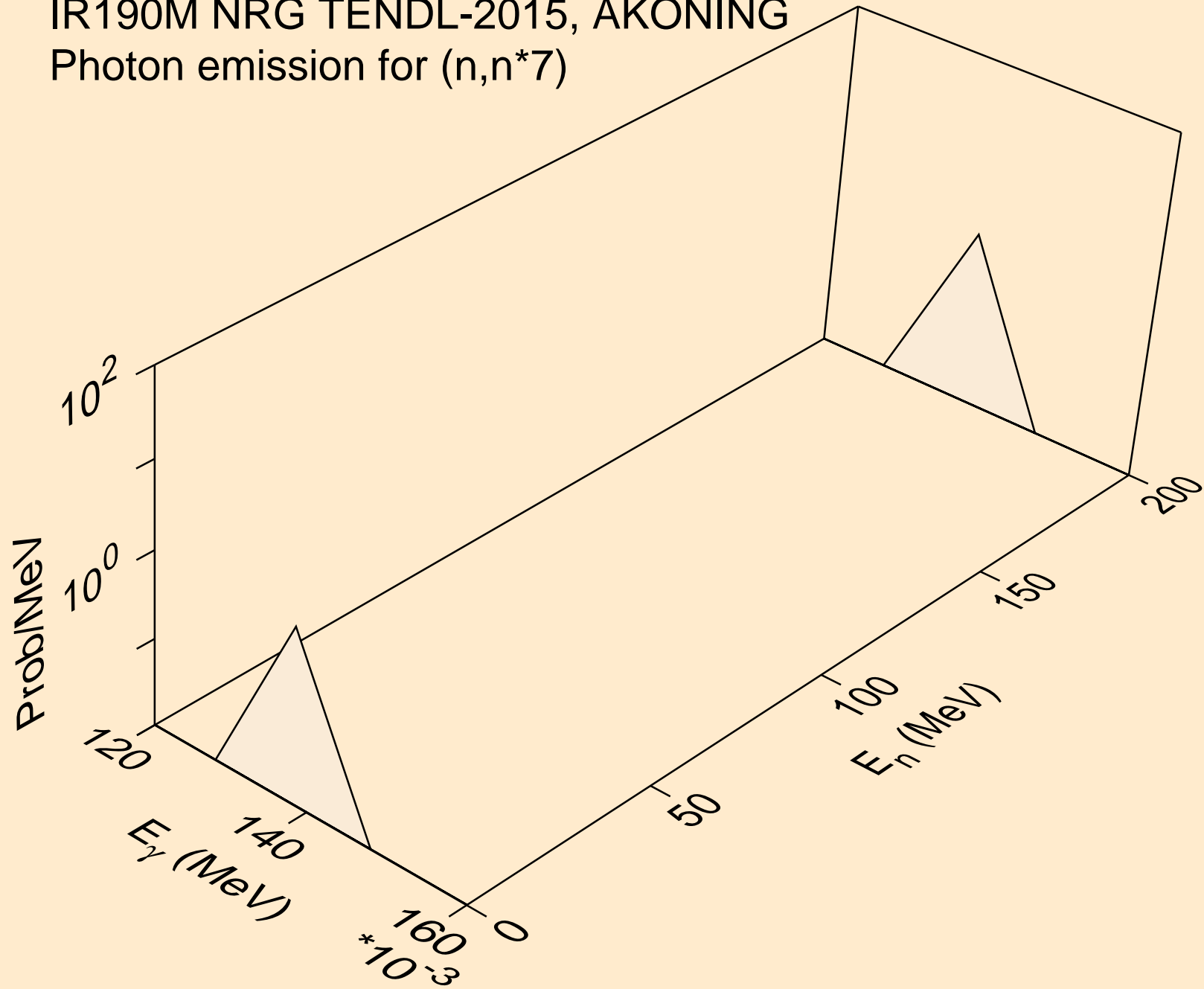




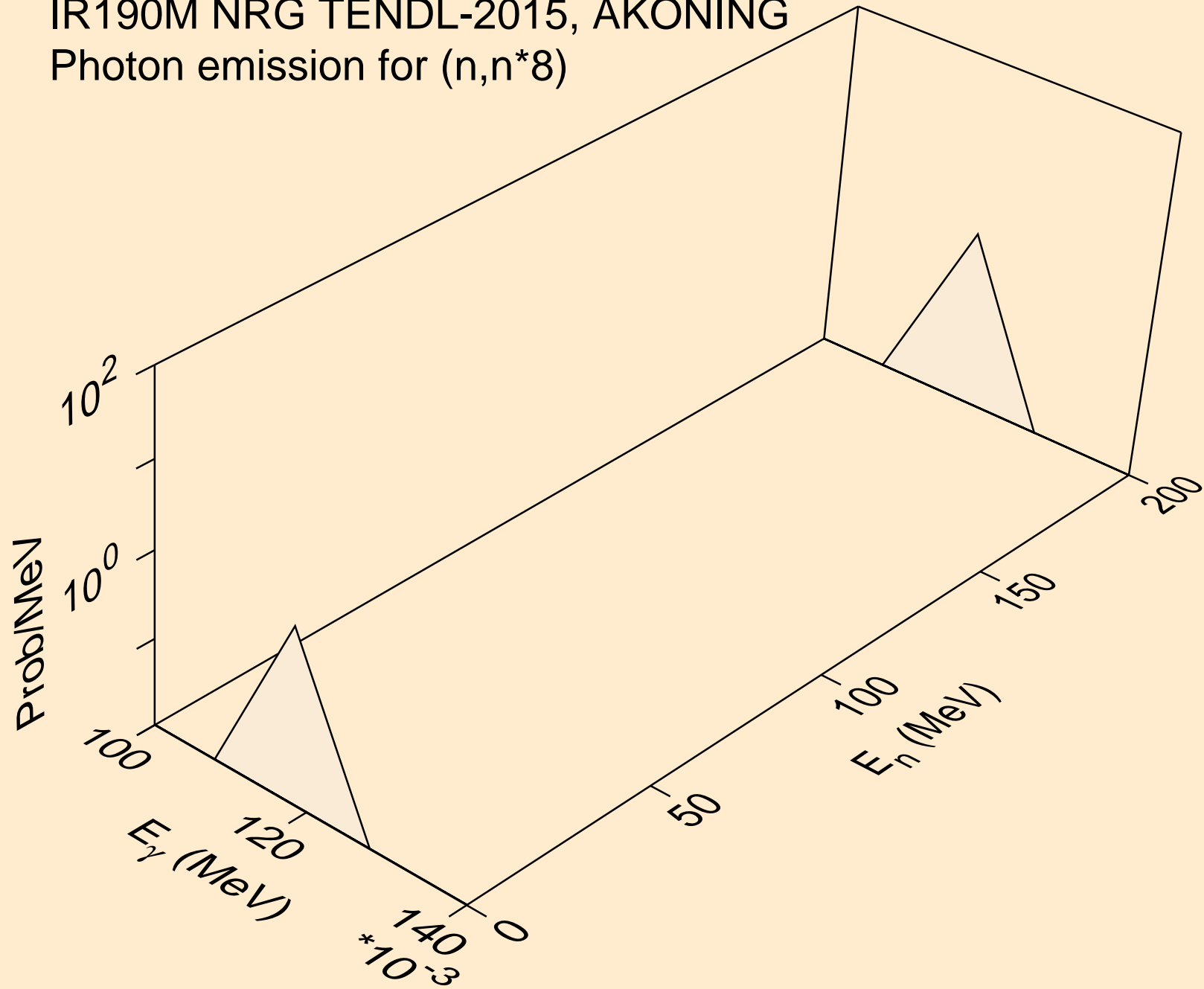
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*6)



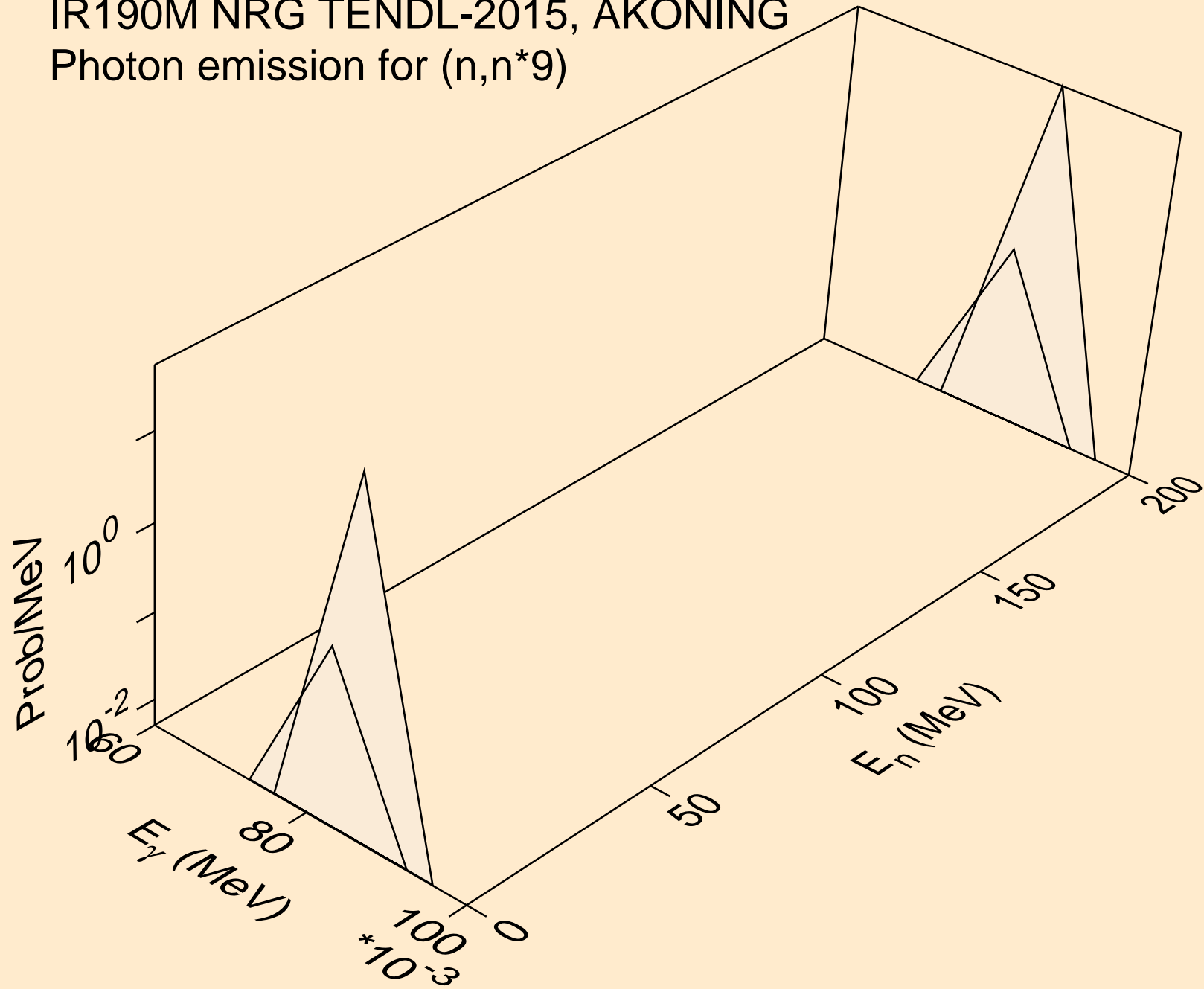
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*7)



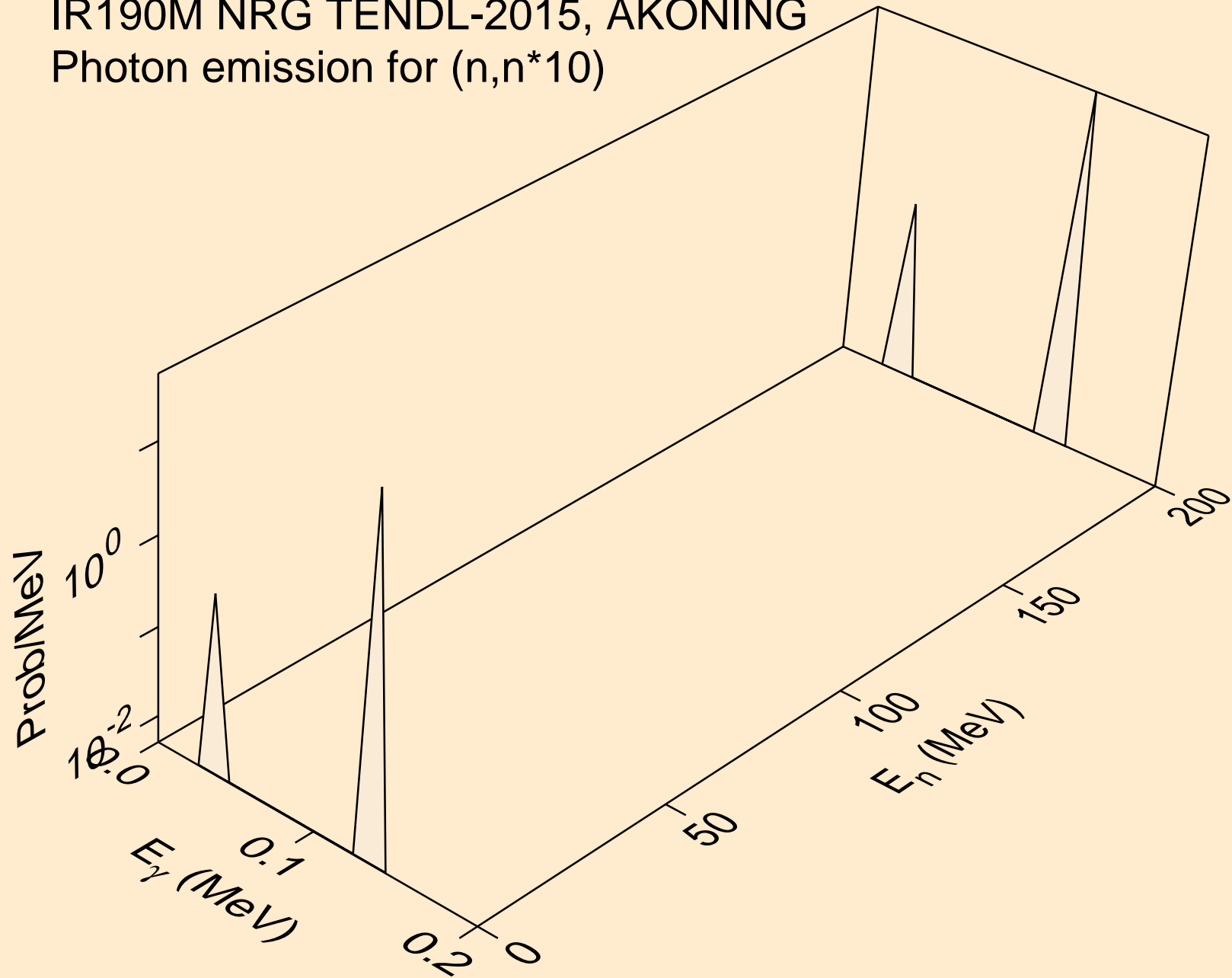
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*8)



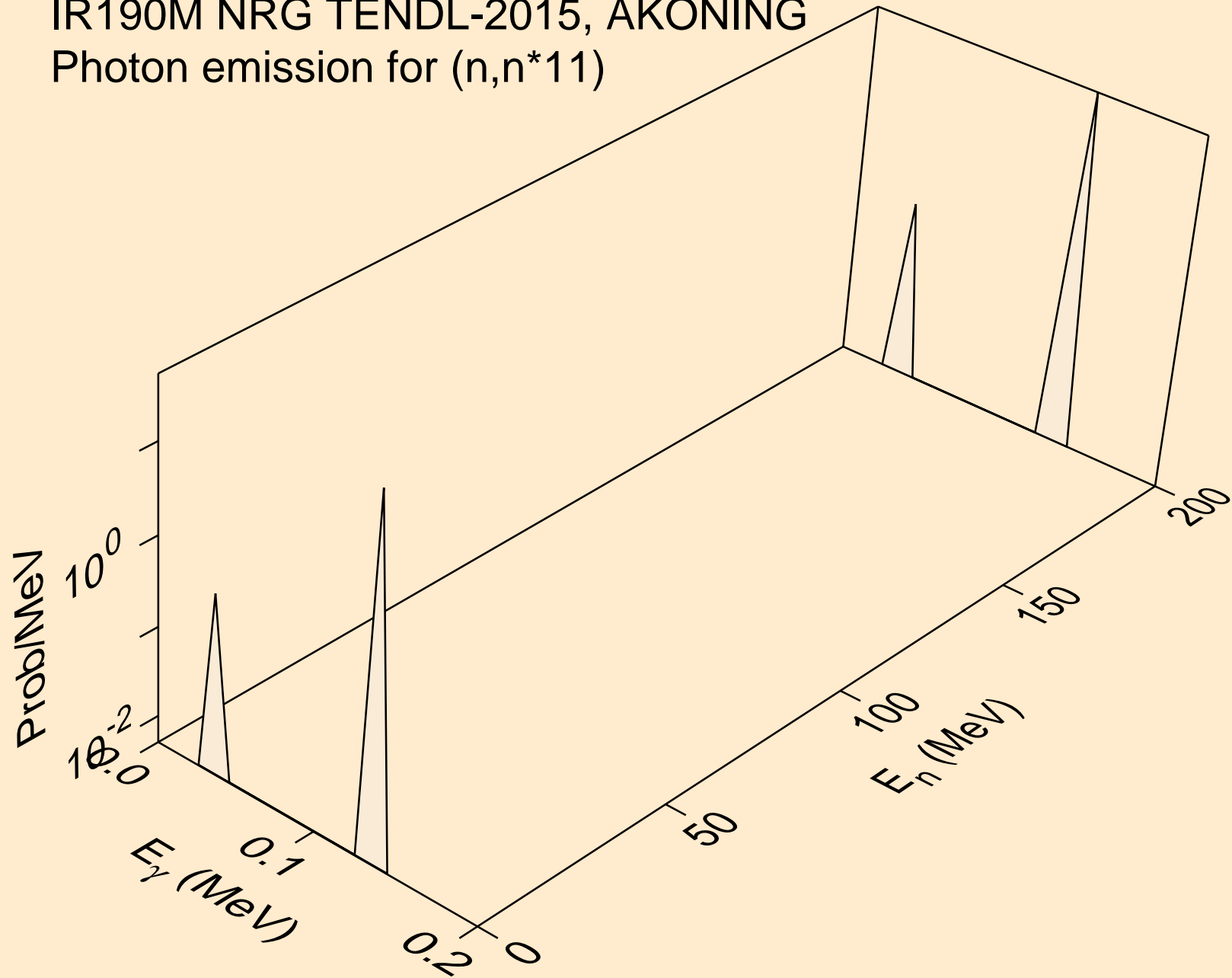
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*9)



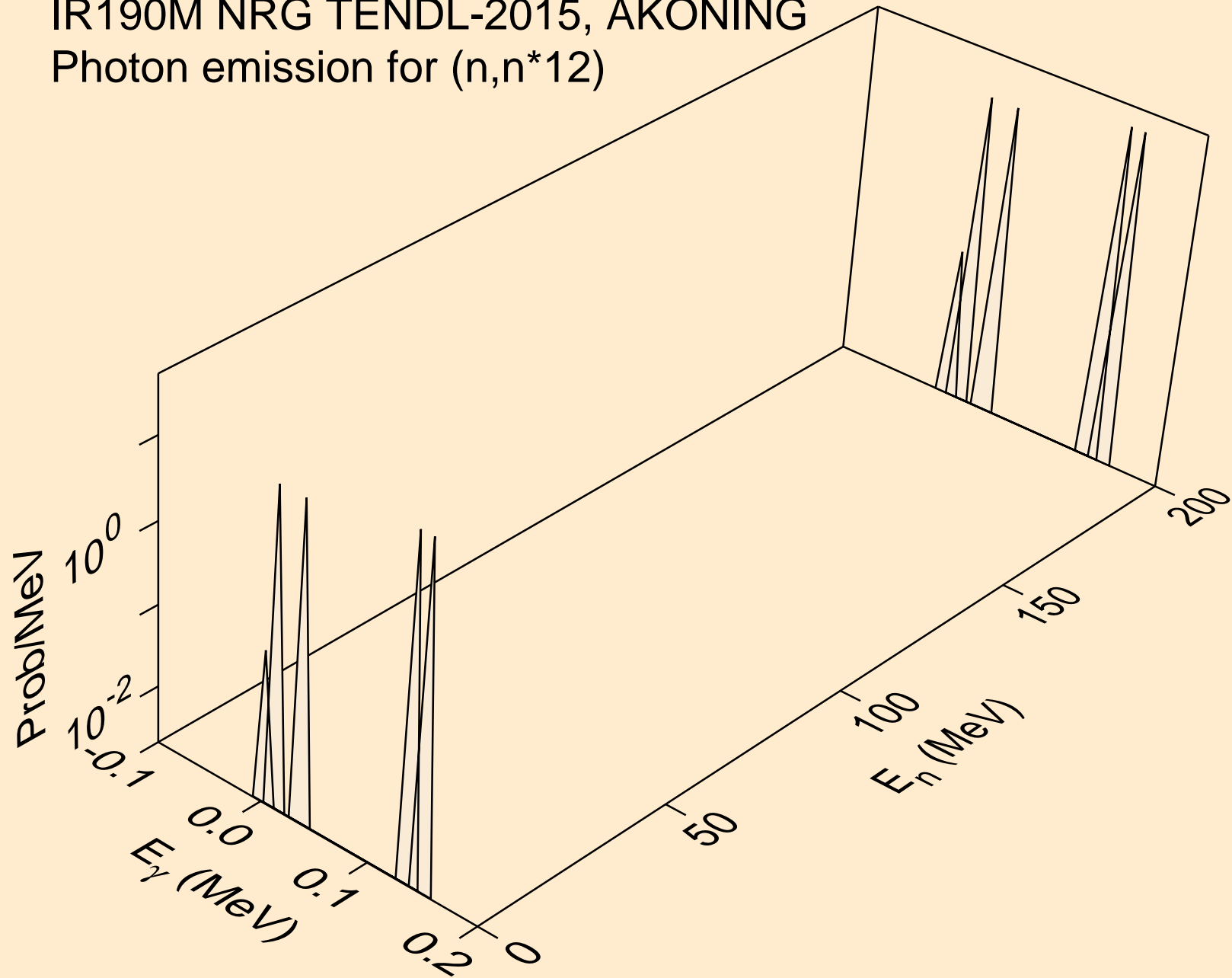
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*10)



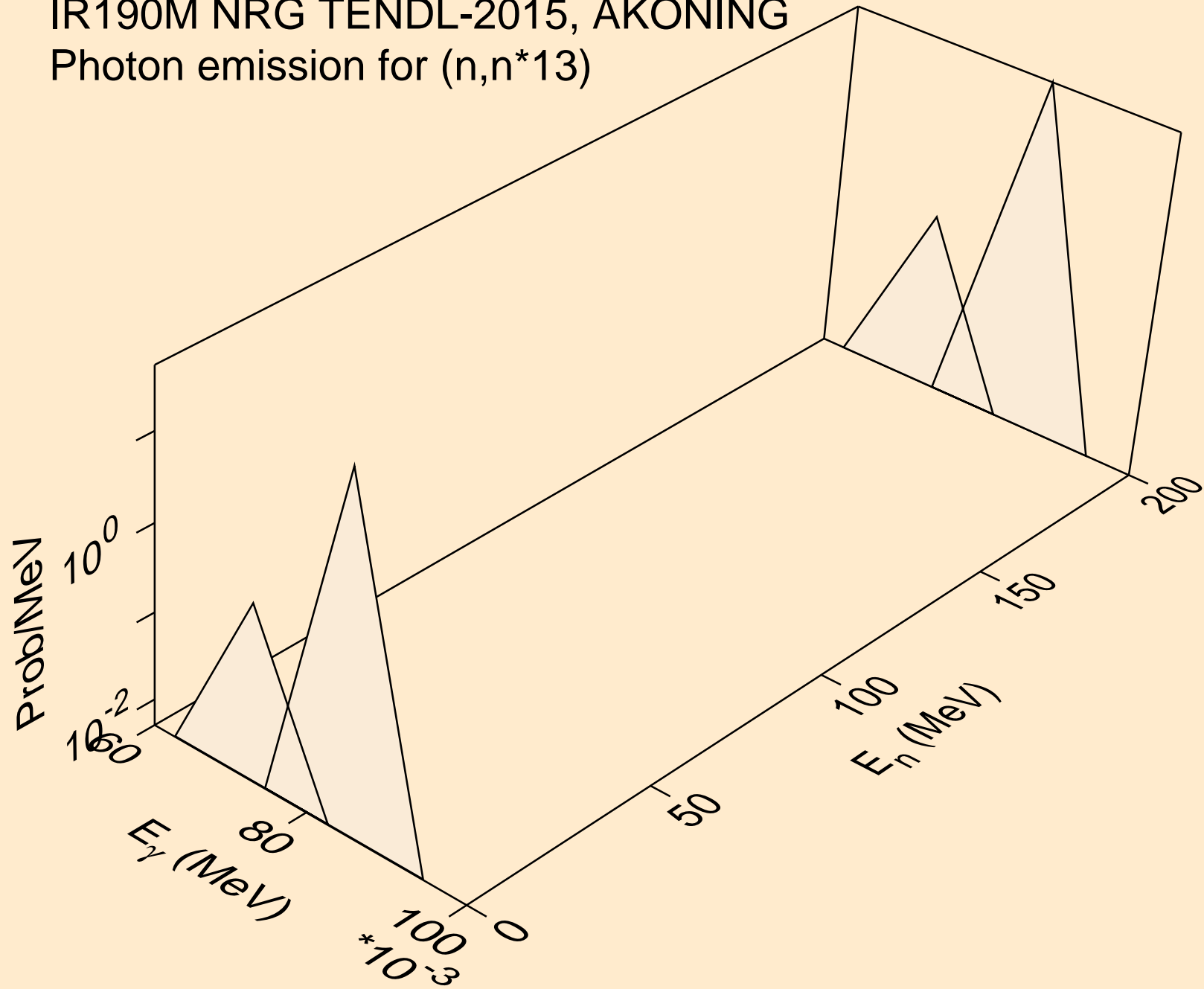
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*11)



IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*12)

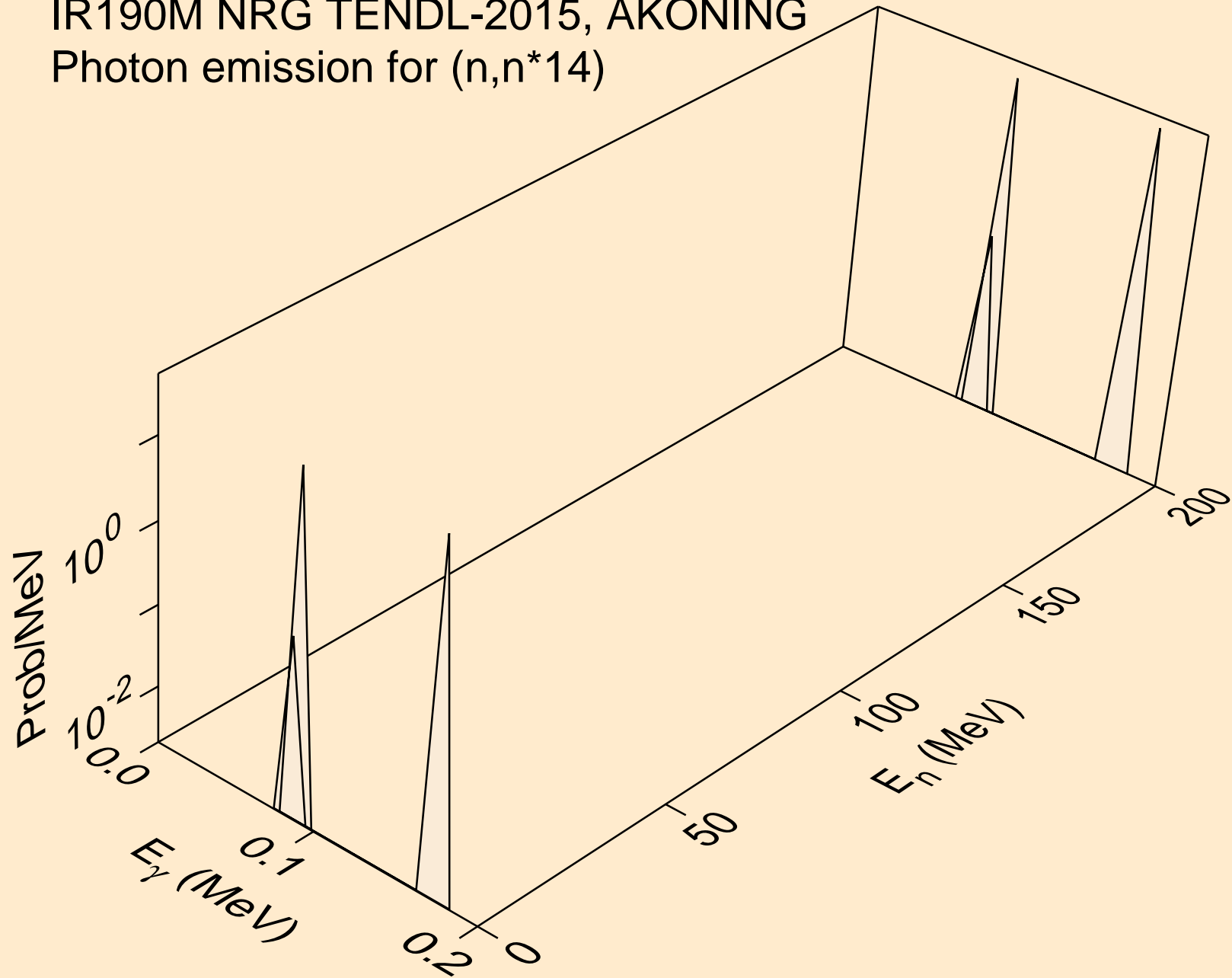


IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*13)

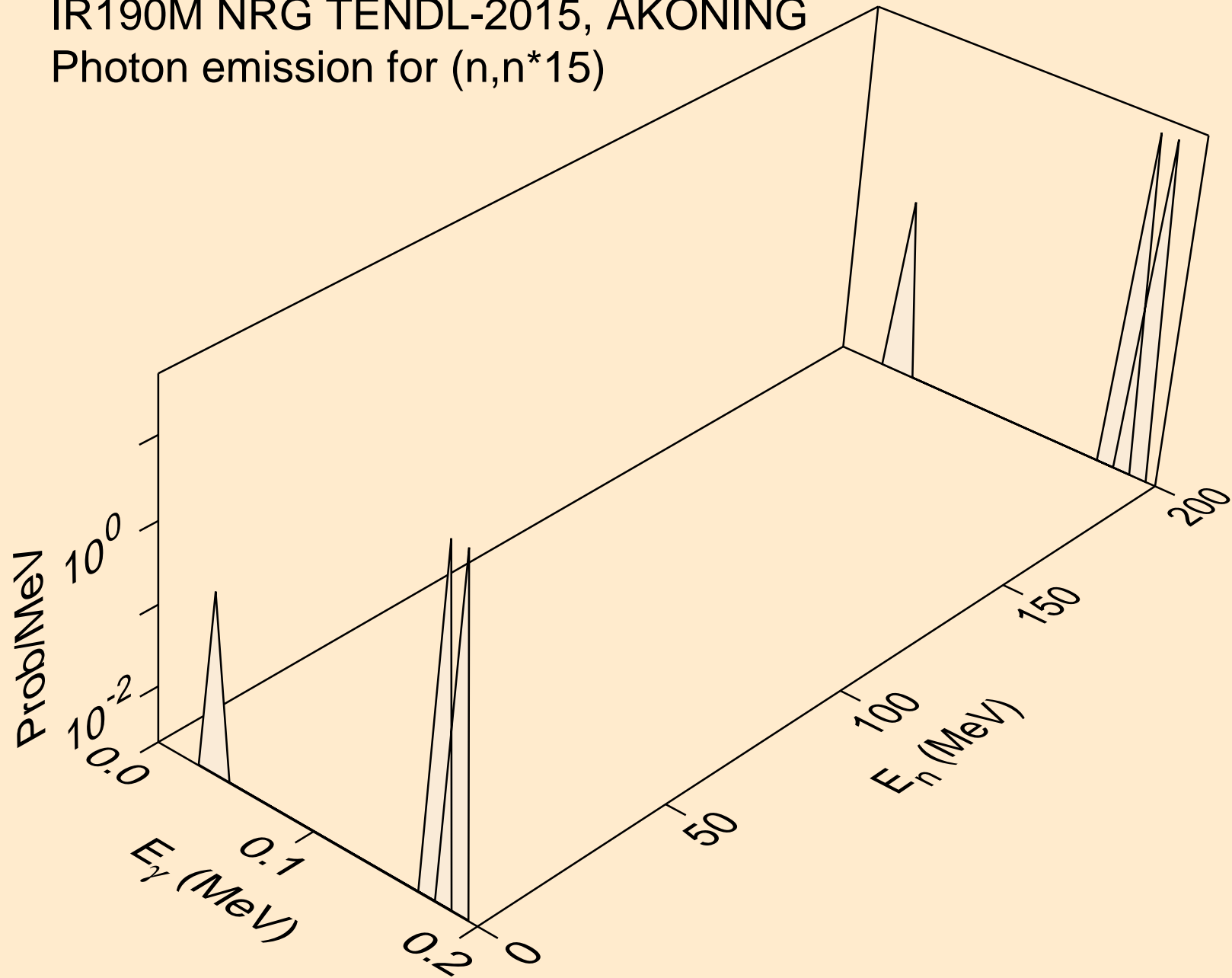




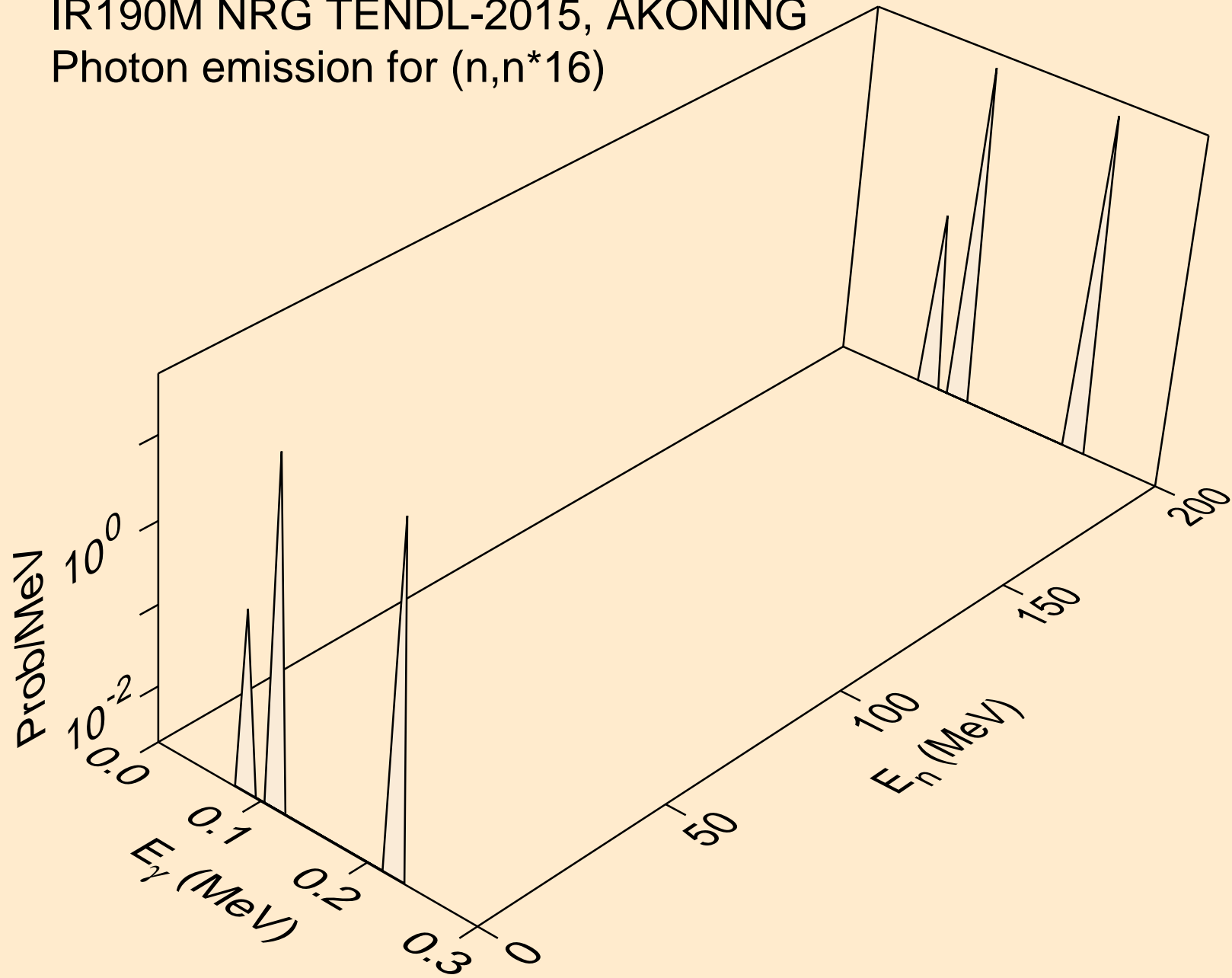
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Photon emission for (n,n\*14)



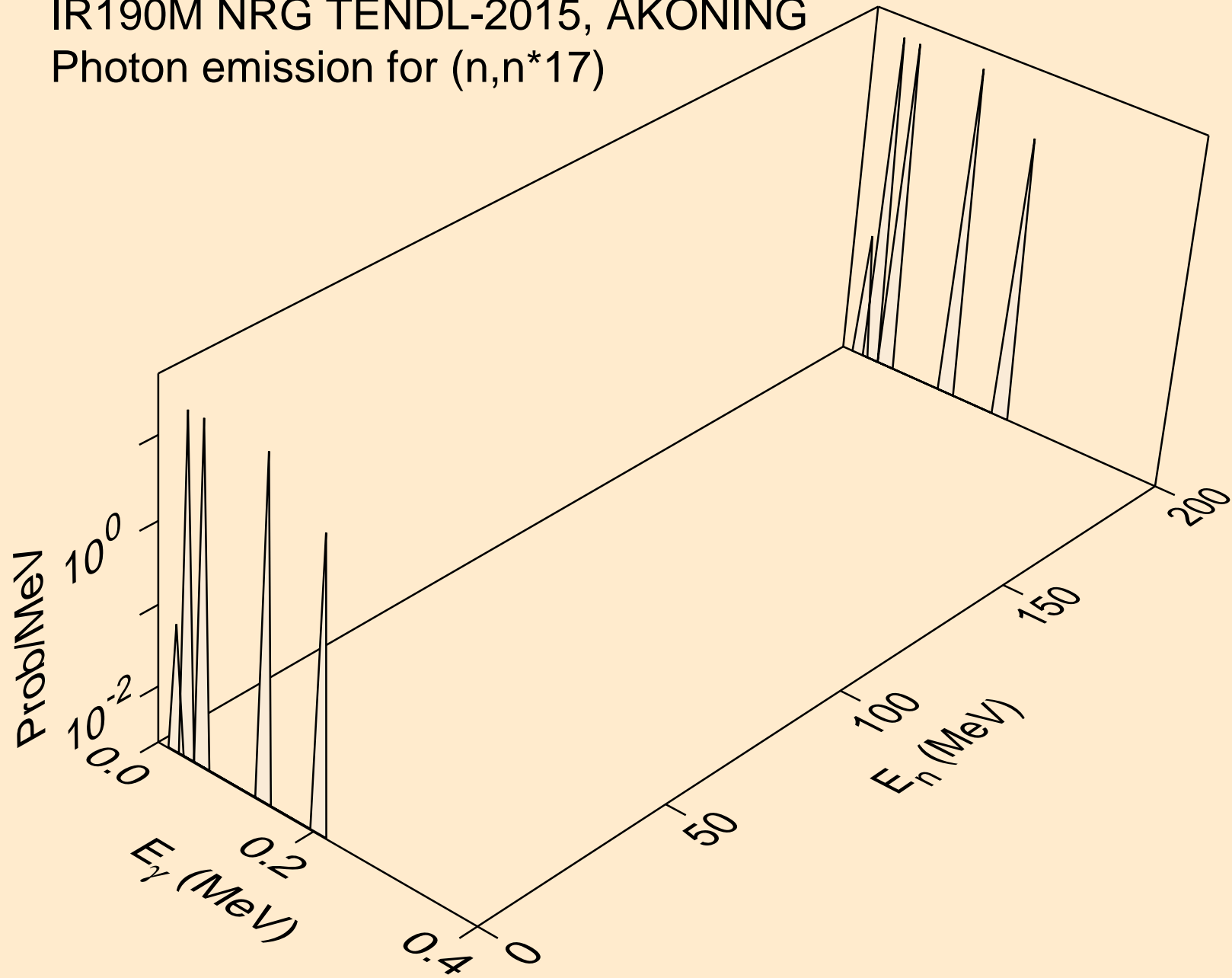
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Photon emission for (n,n\*15)



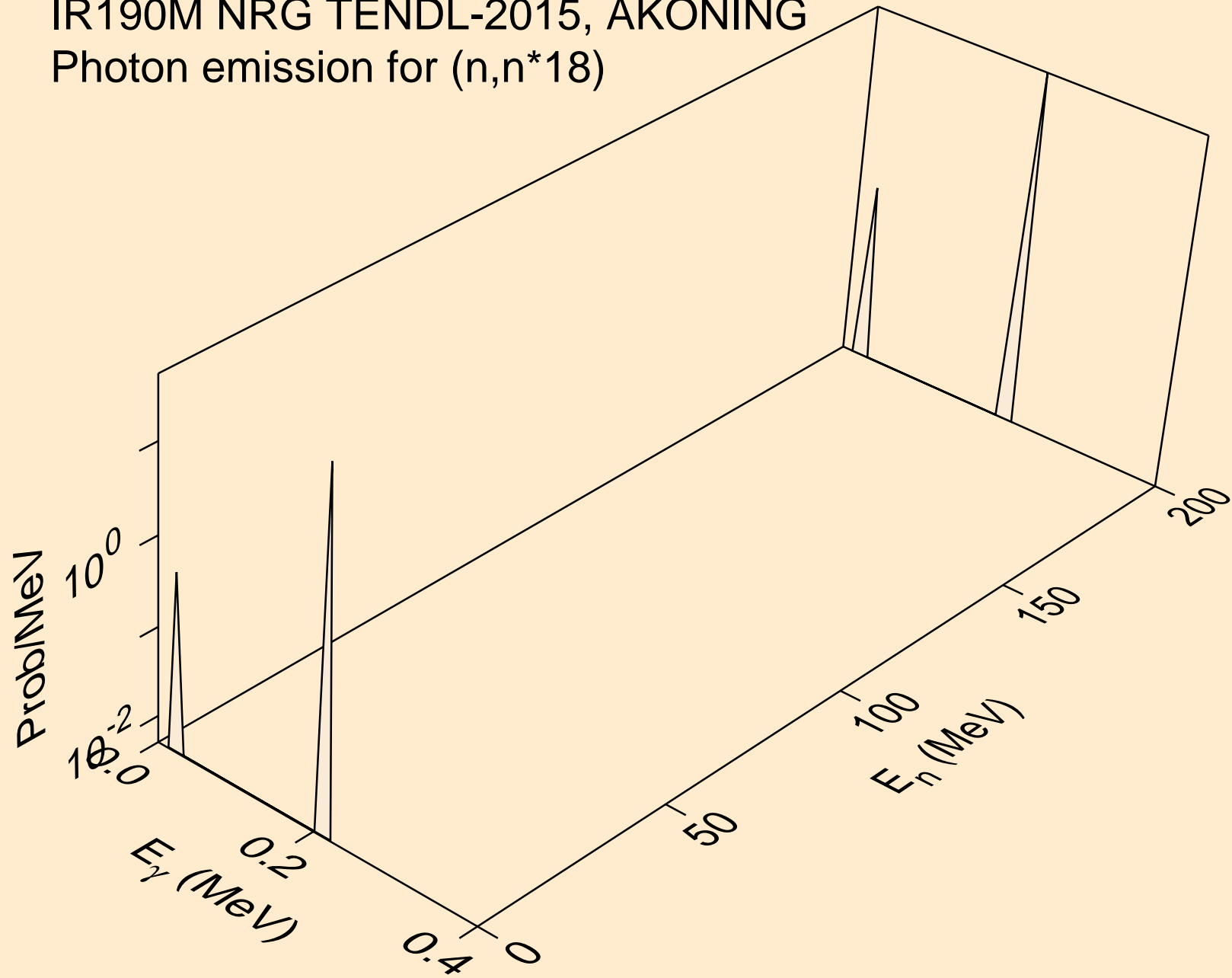
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Photon emission for (n,n\*16)



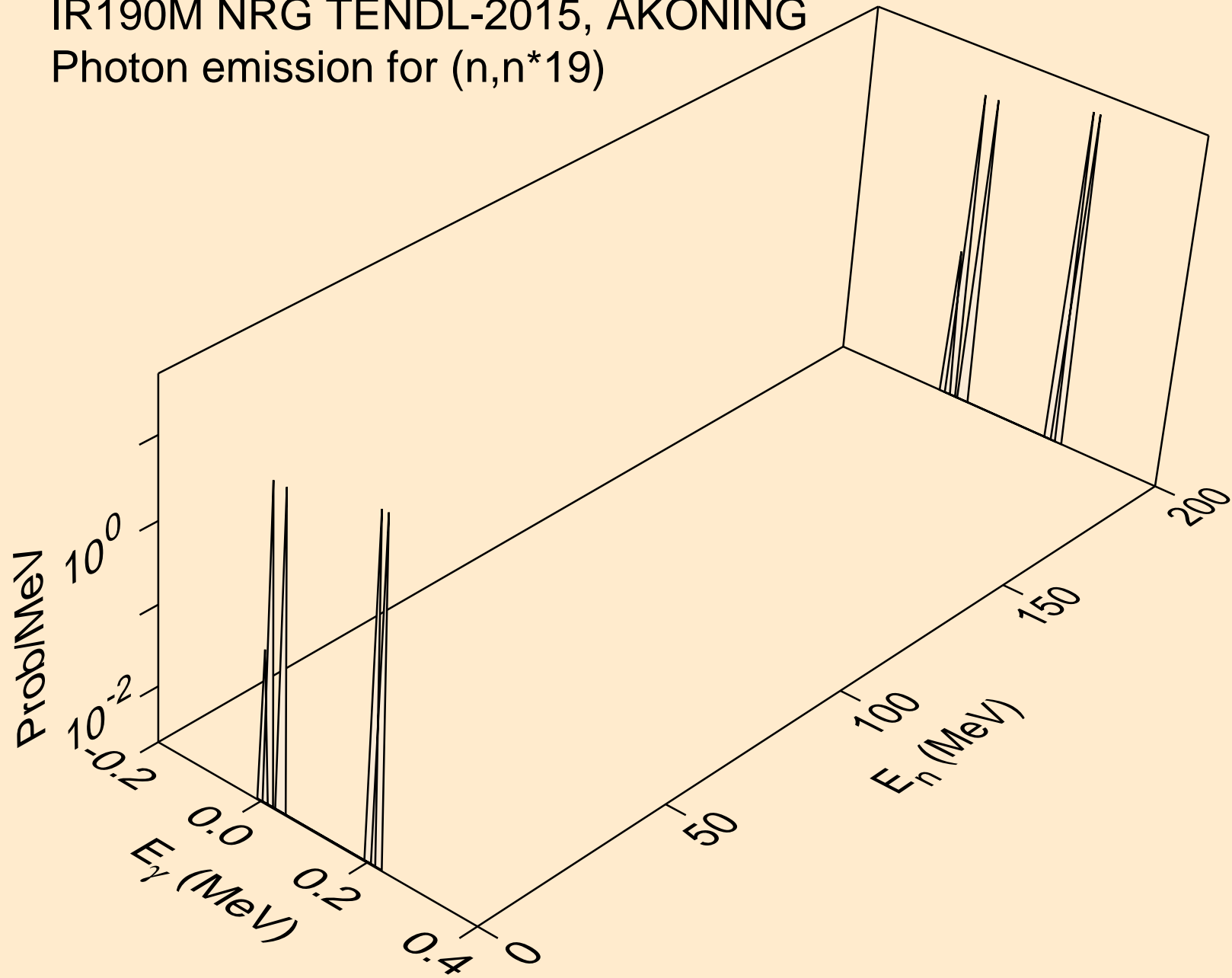
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Photon emission for (n,n\*17)



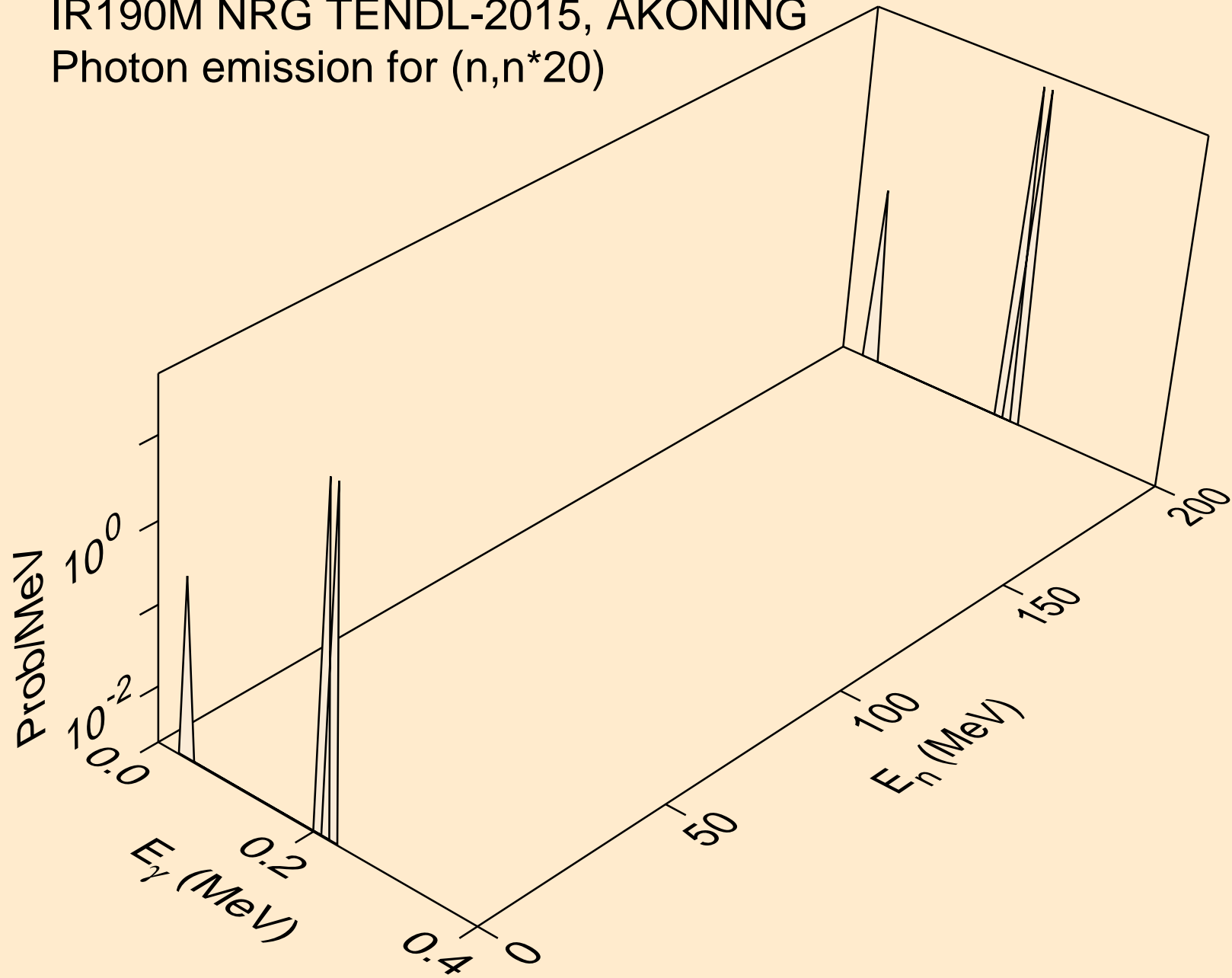
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Photon emission for (n,n\*18)



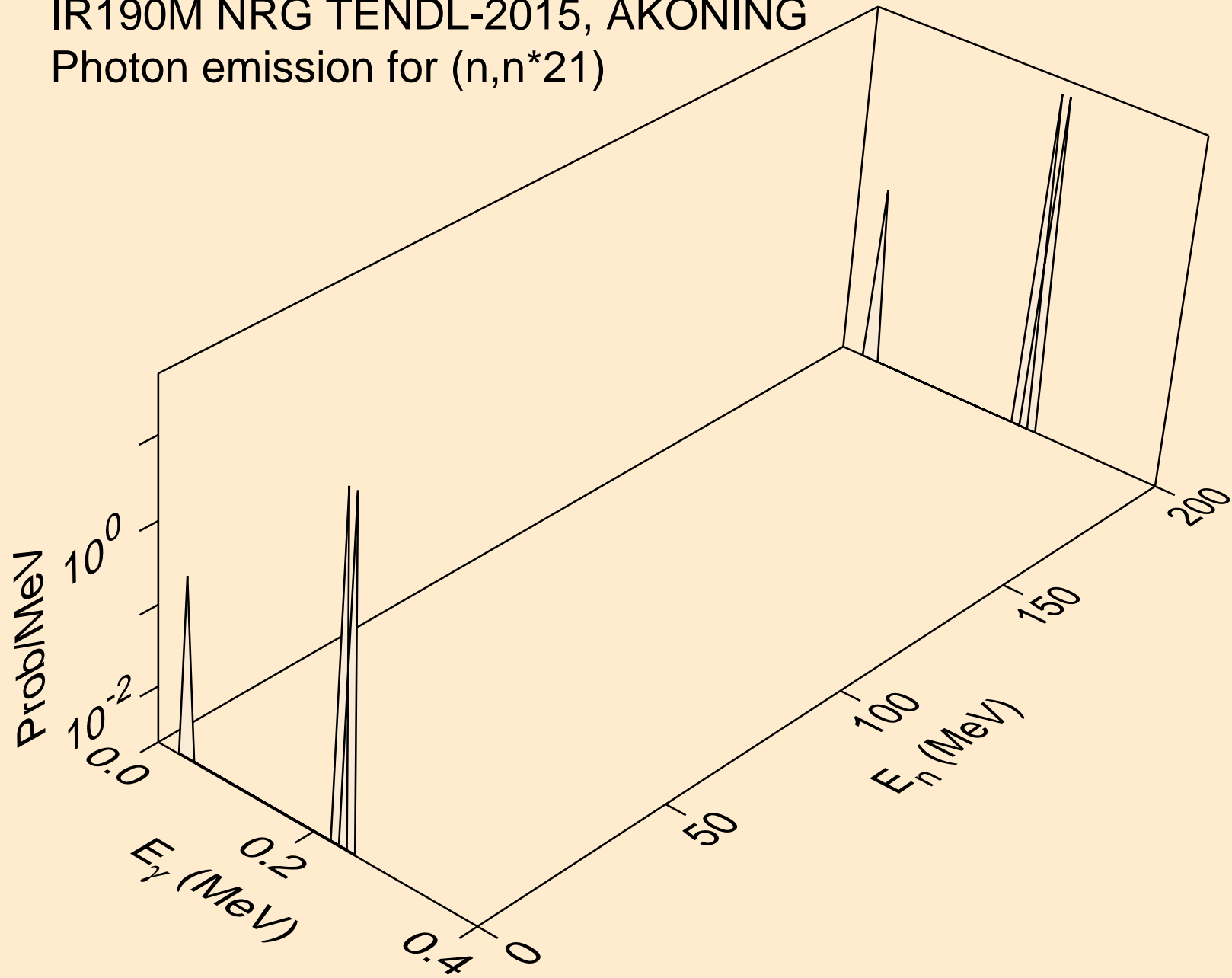
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*19)



IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*20)

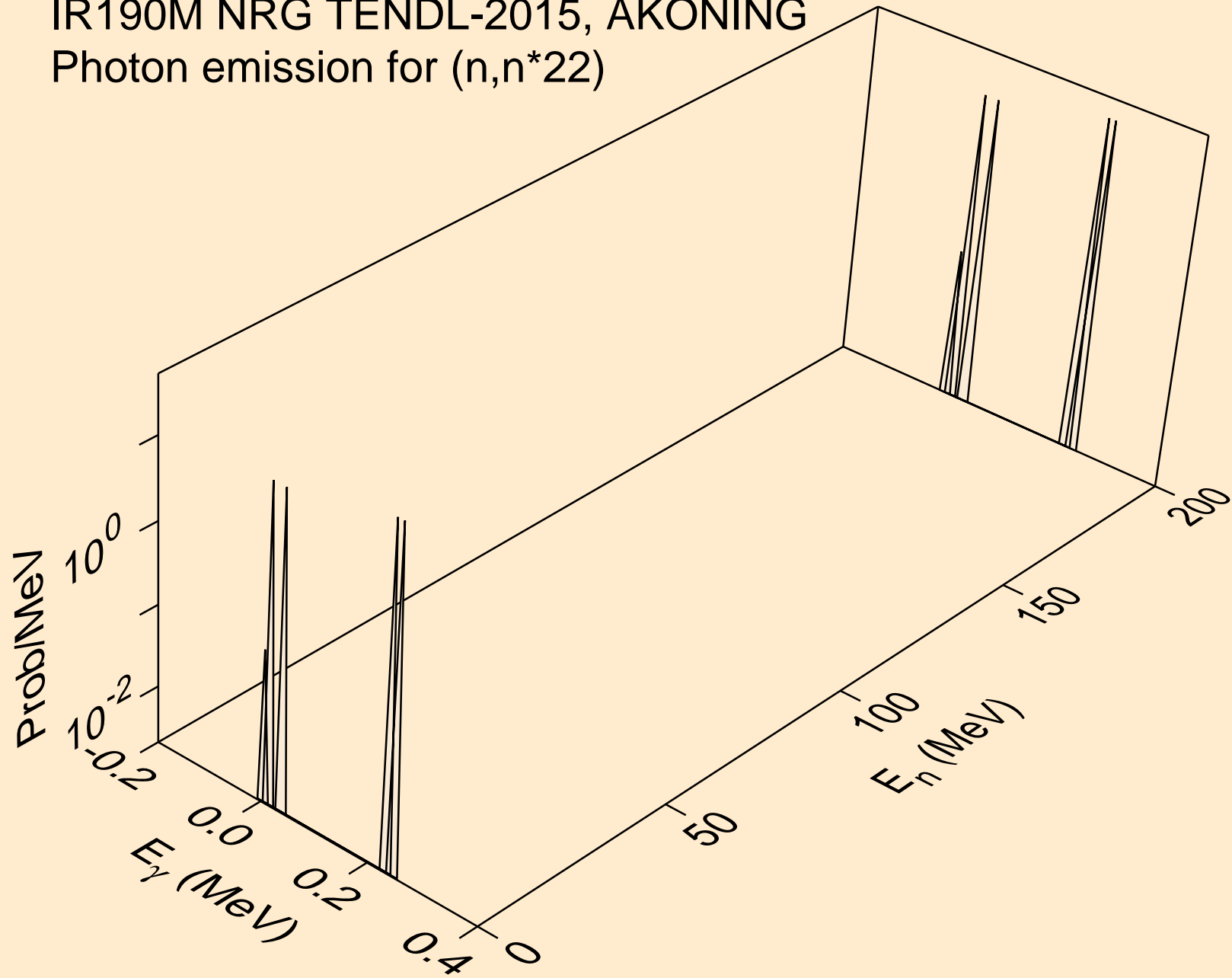


IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*21)

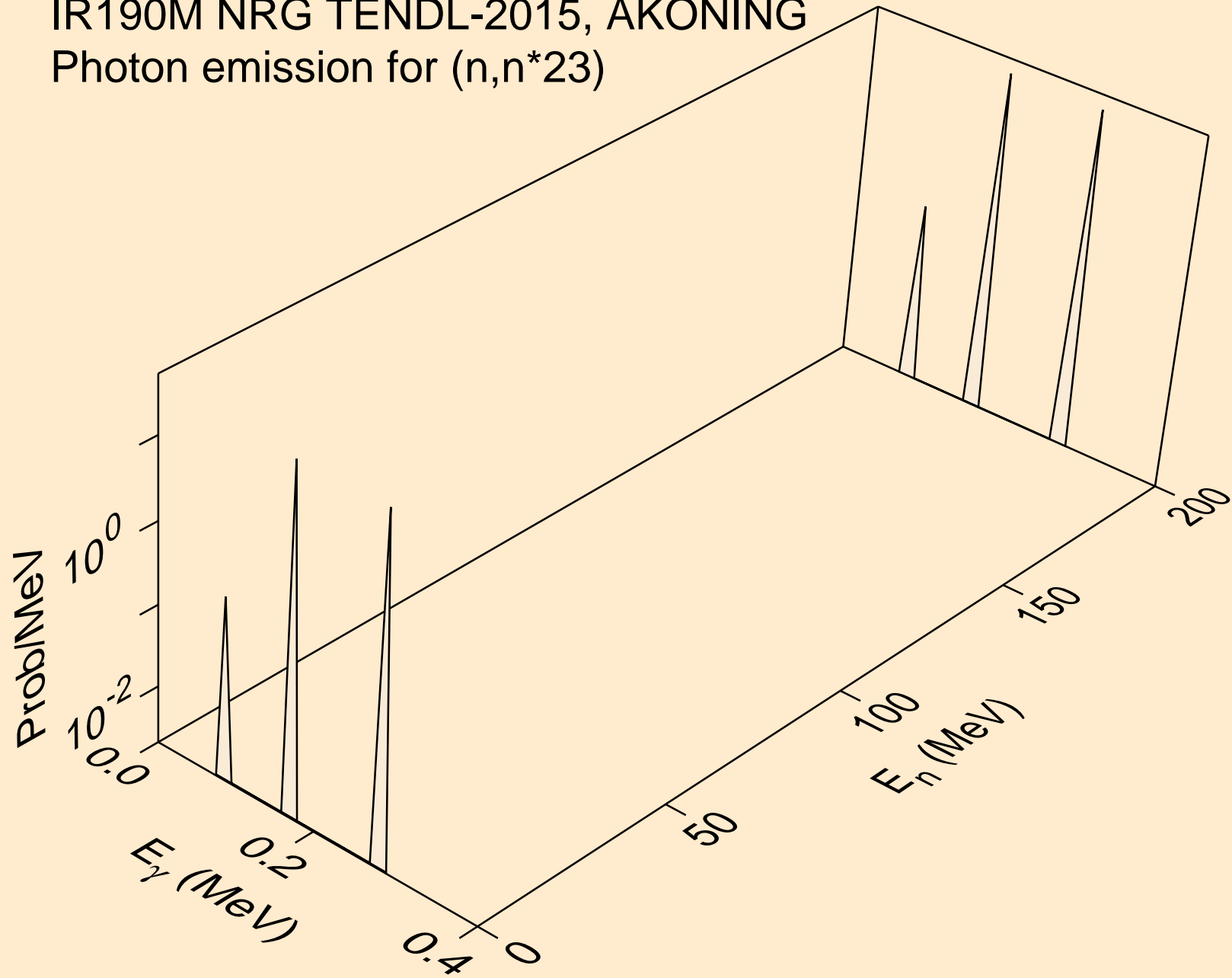




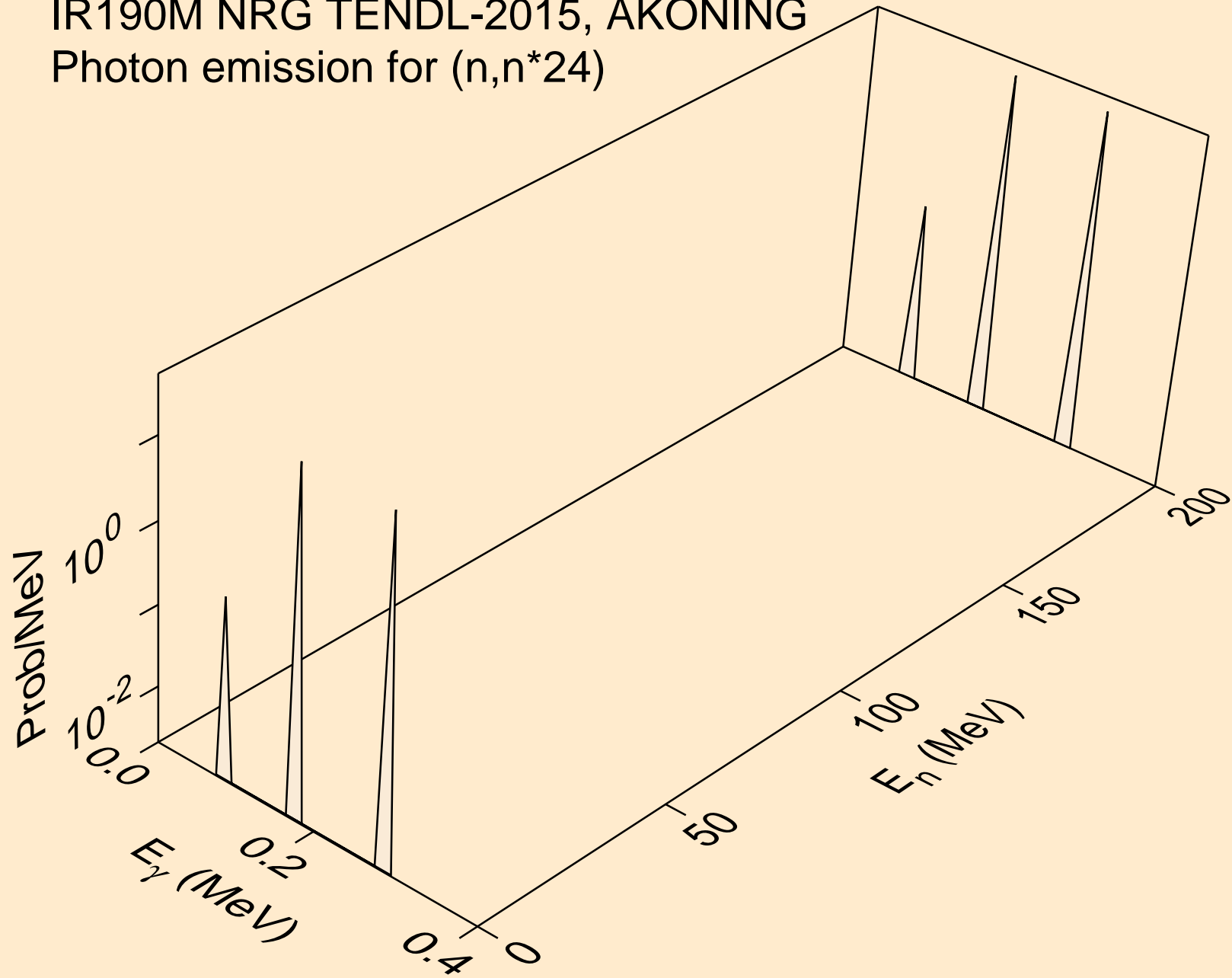
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Photon emission for (n,n\*22)



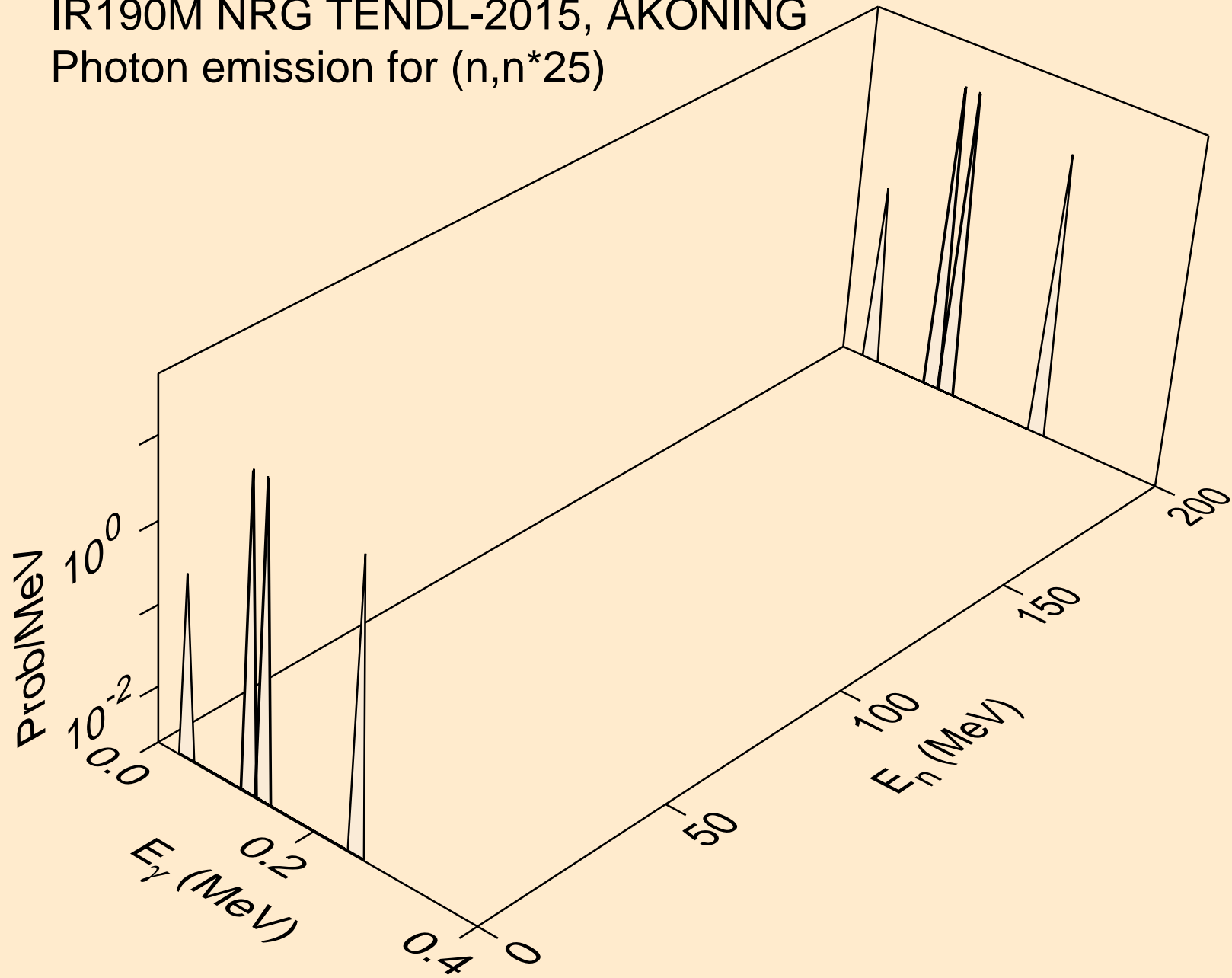
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Photon emission for (n,n\*23)



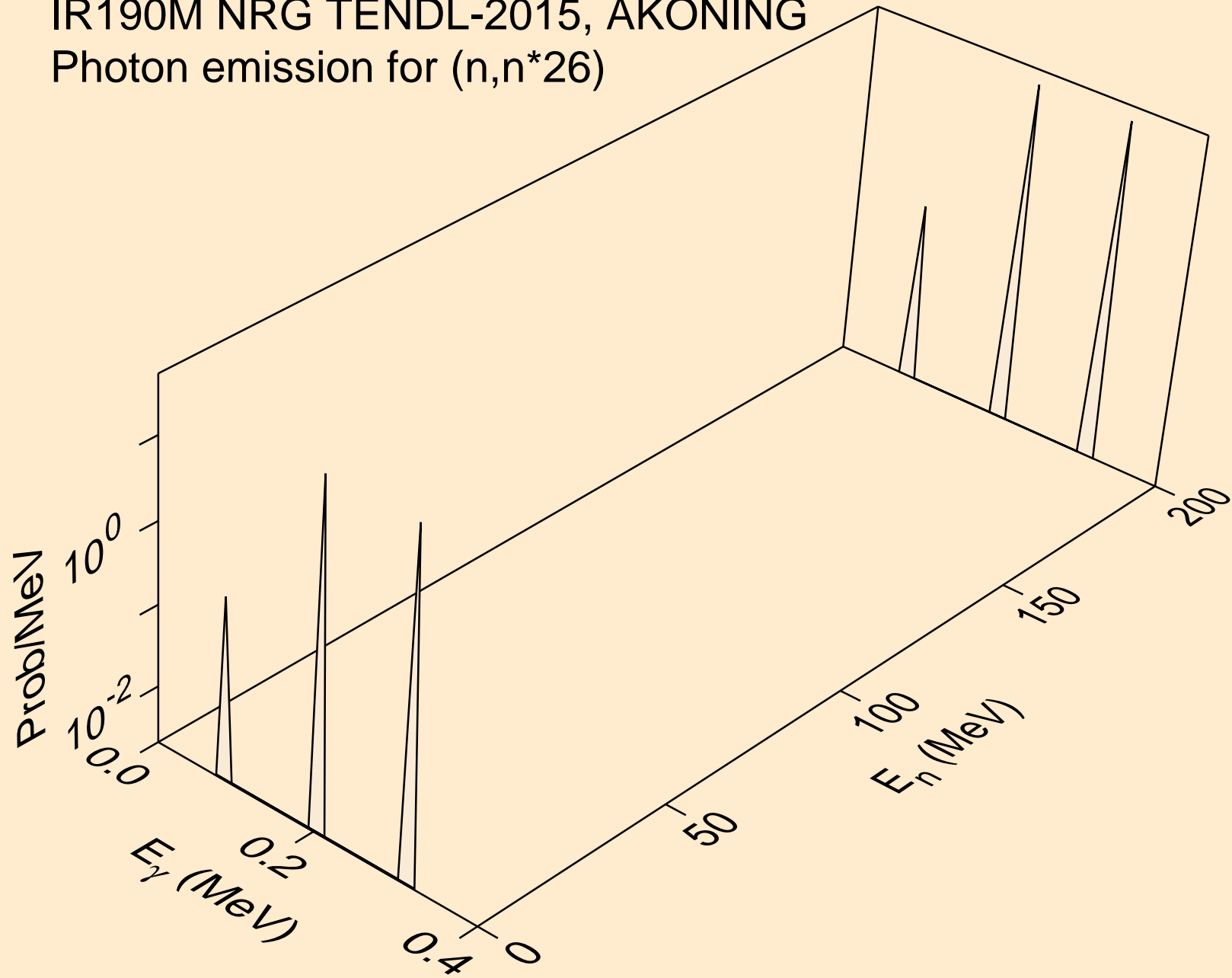
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*24)



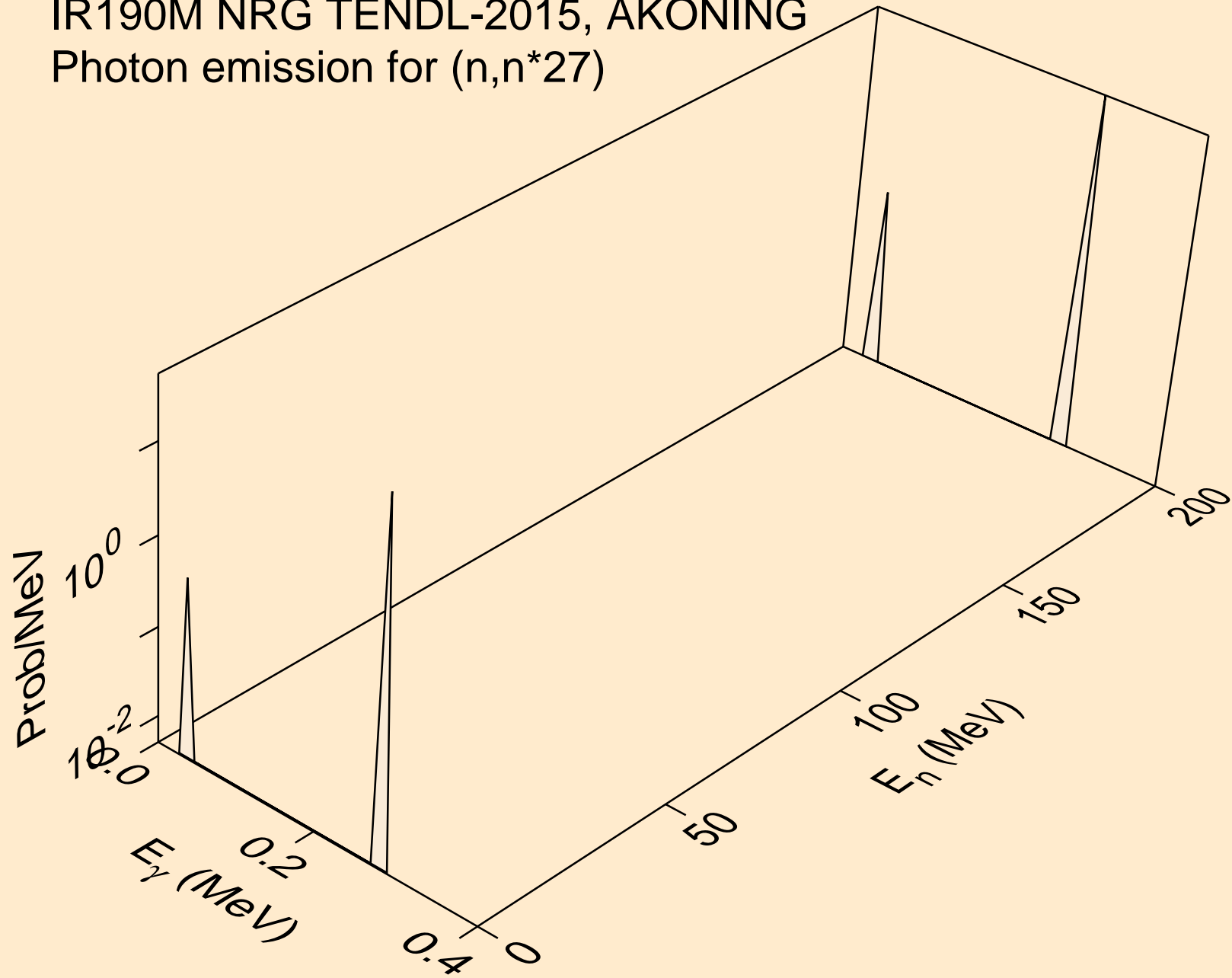
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Photon emission for (n,n\*25)



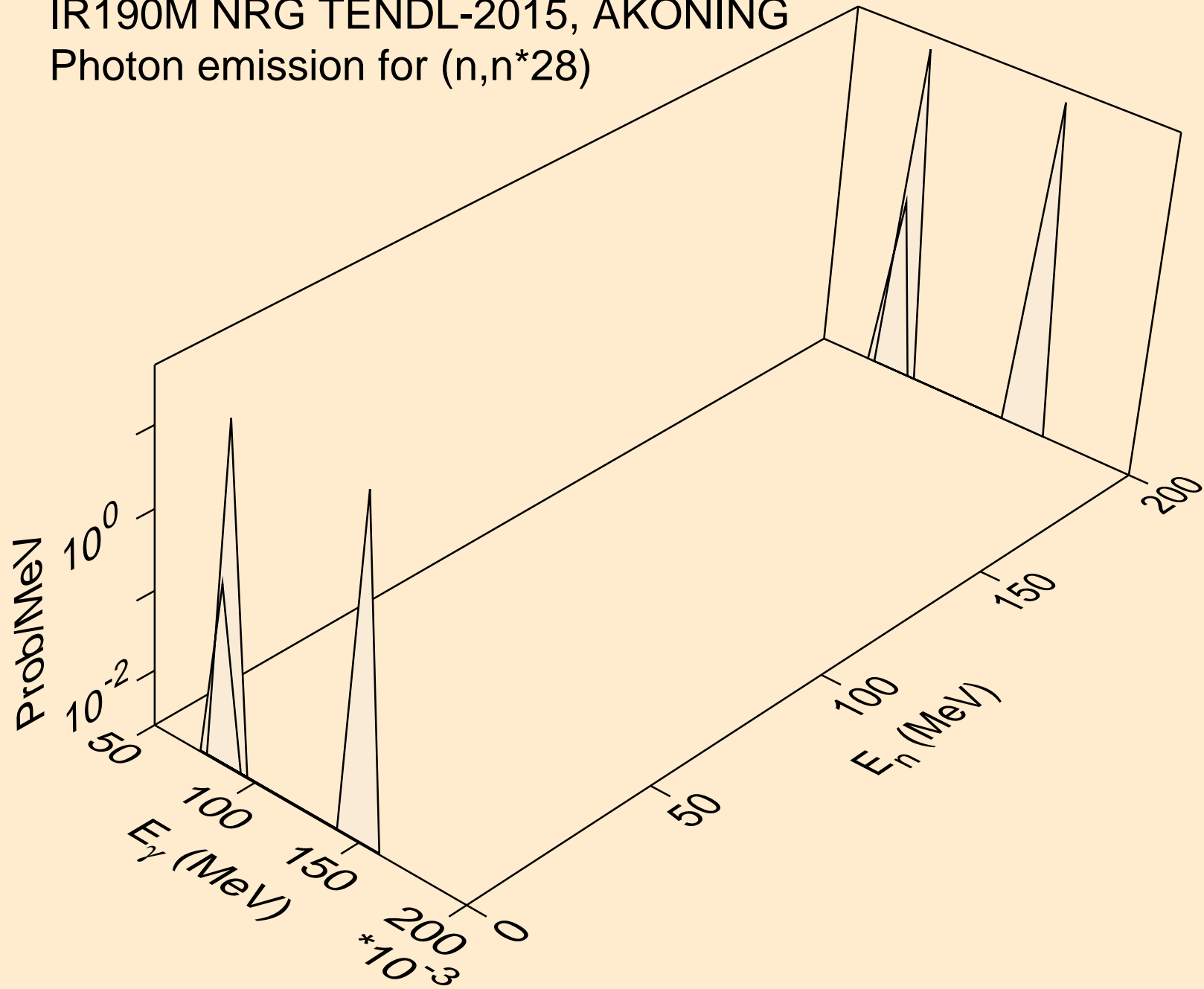
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Photon emission for (n,n\*26)



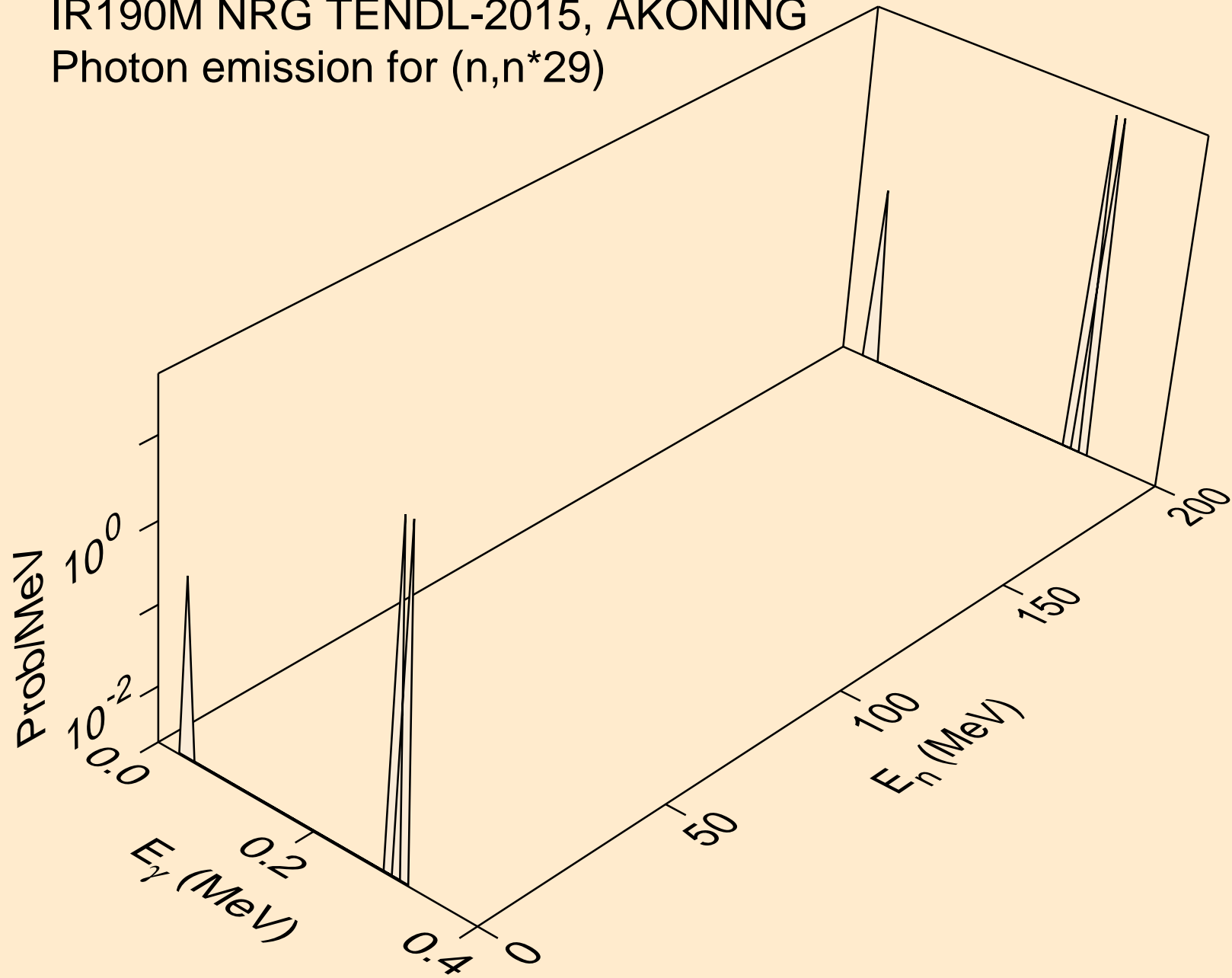
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*27)



IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*28)

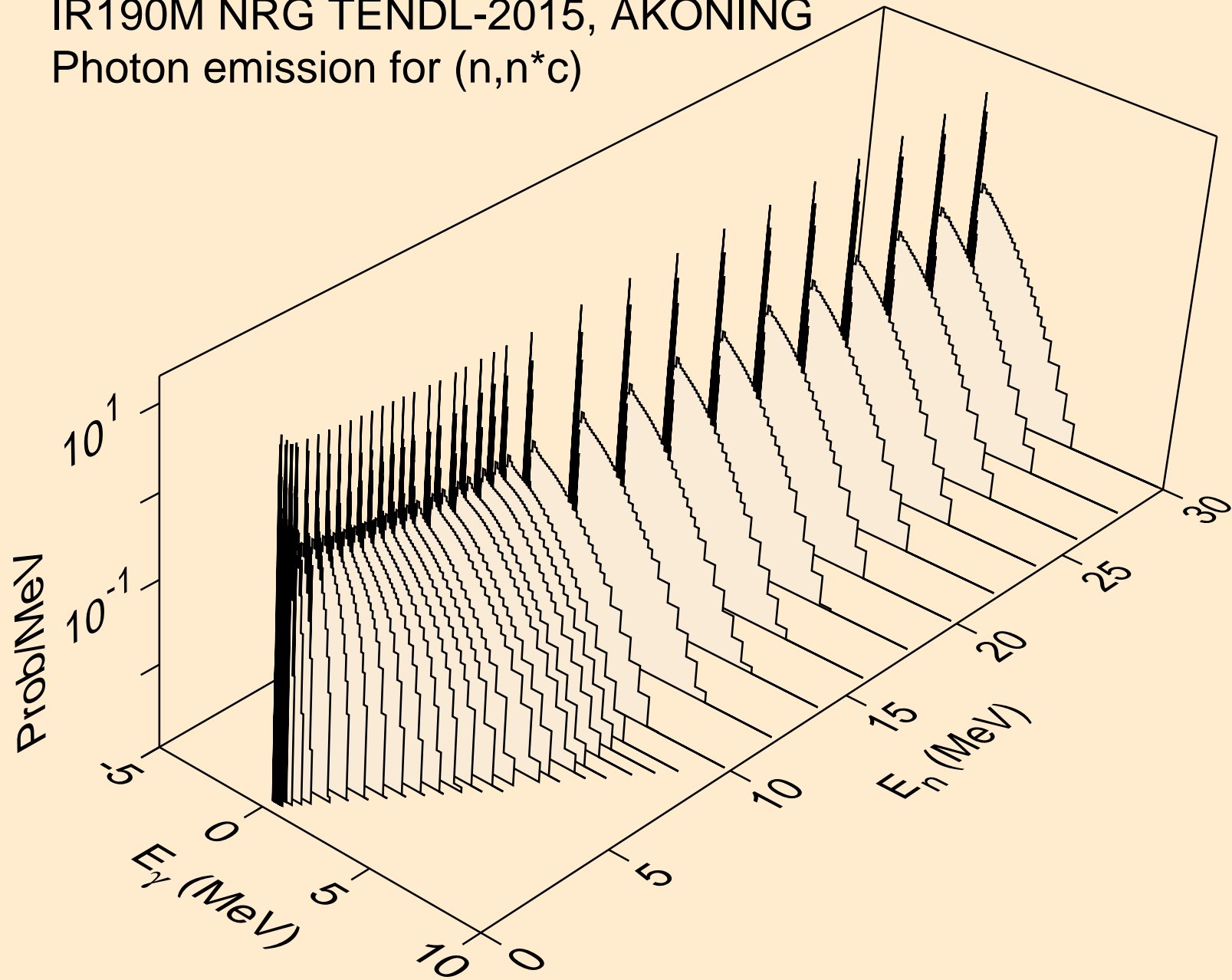


IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,n\*29)

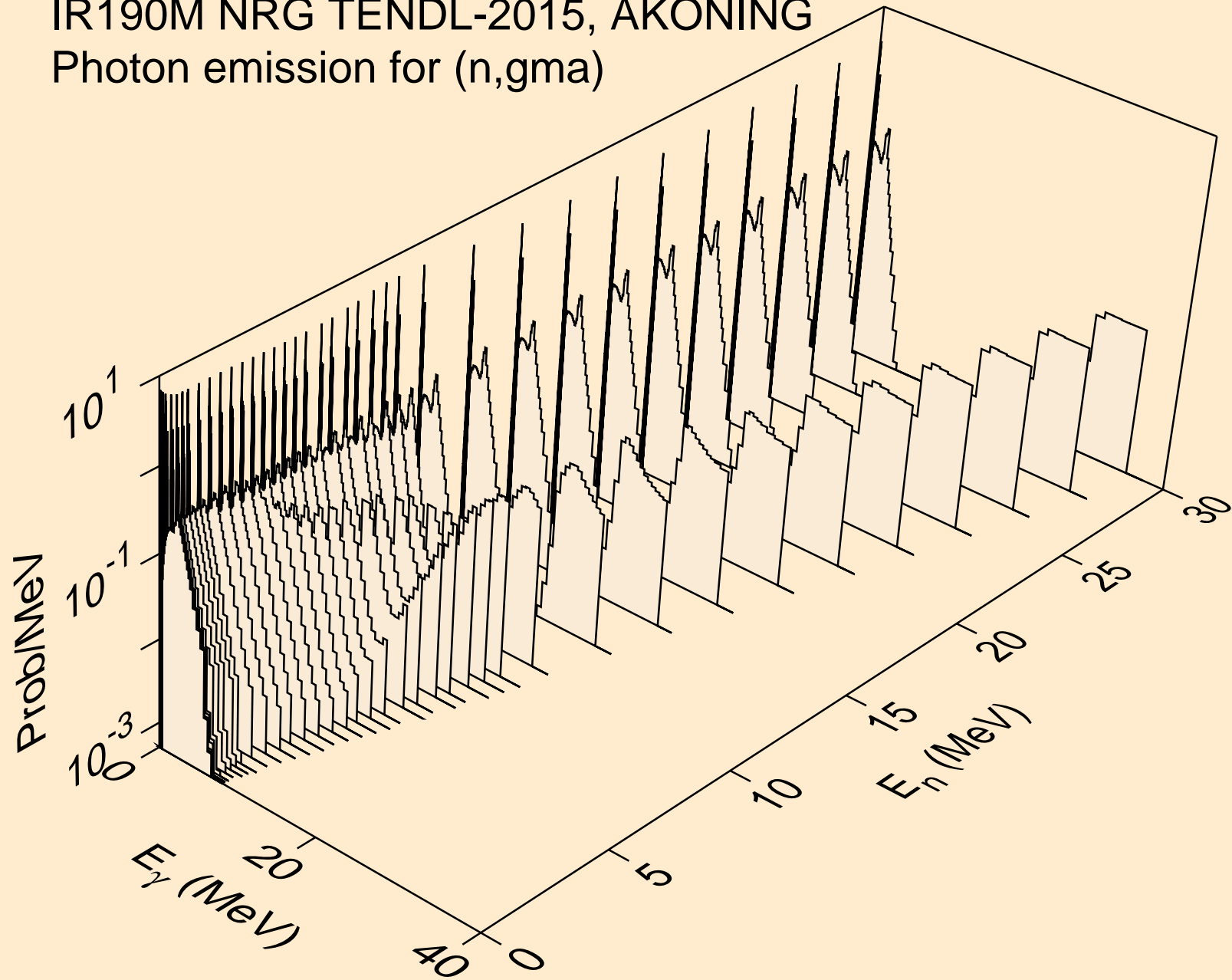




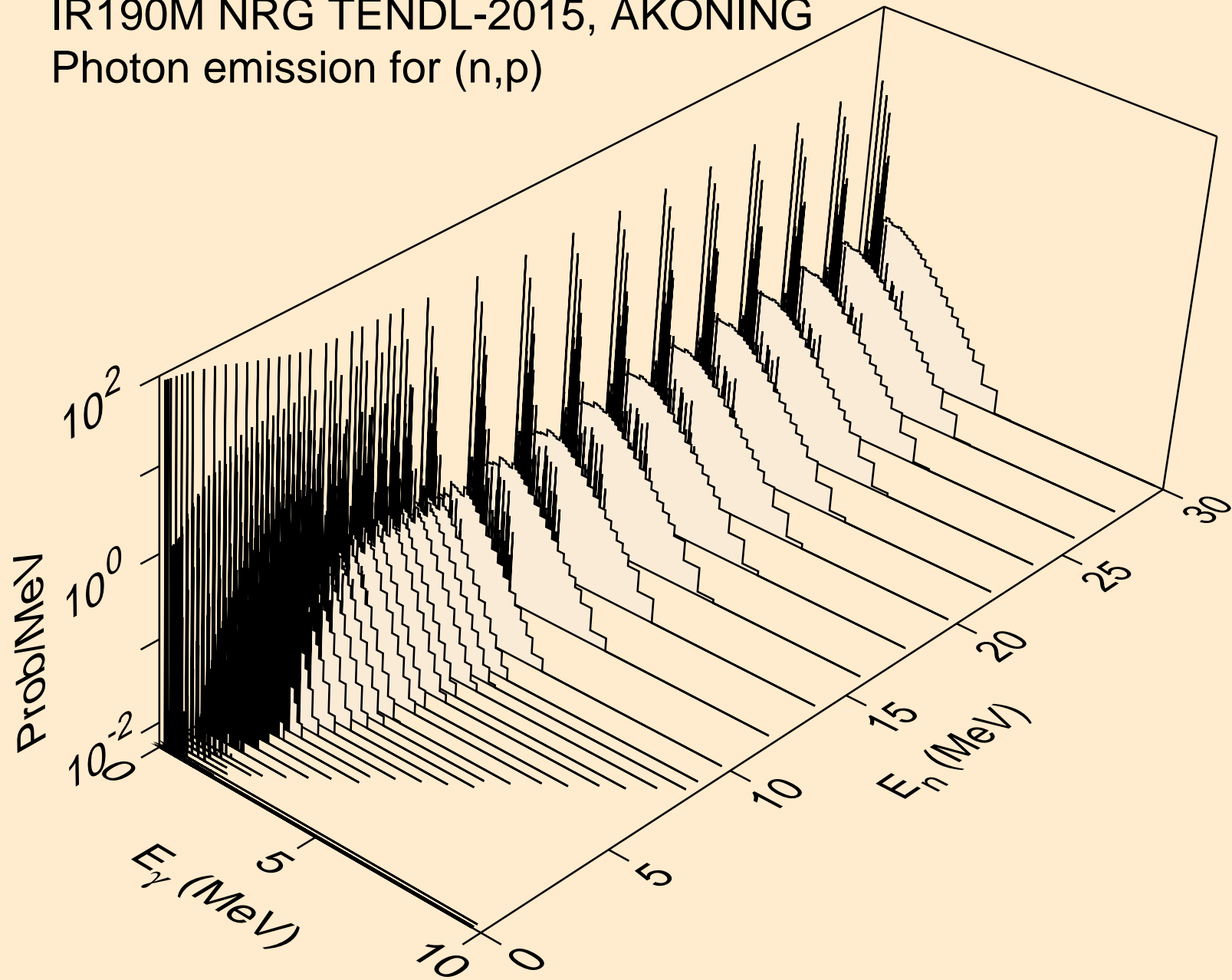
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Photon emission for (n,n\*c)



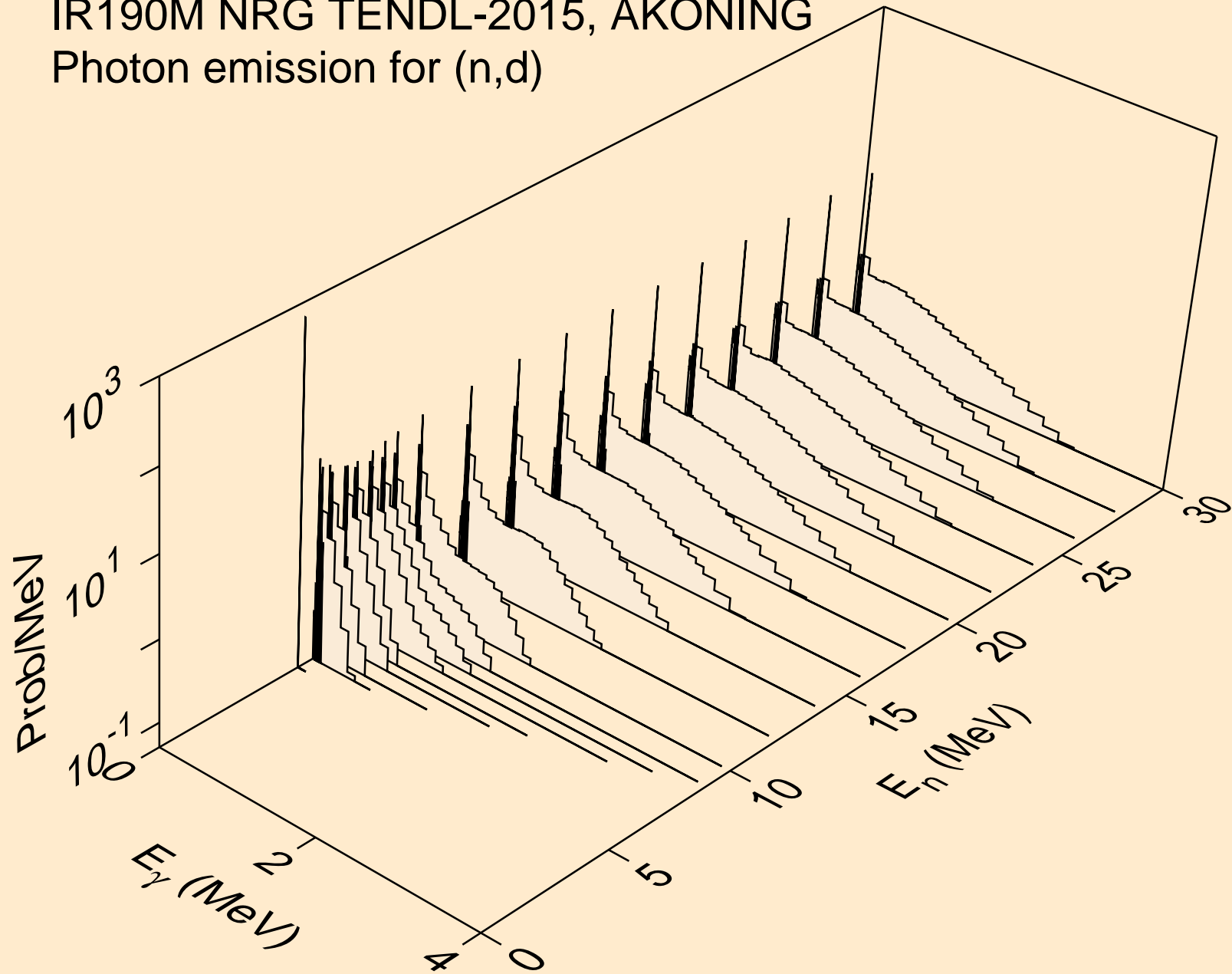
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Photon emission for (n,gma)



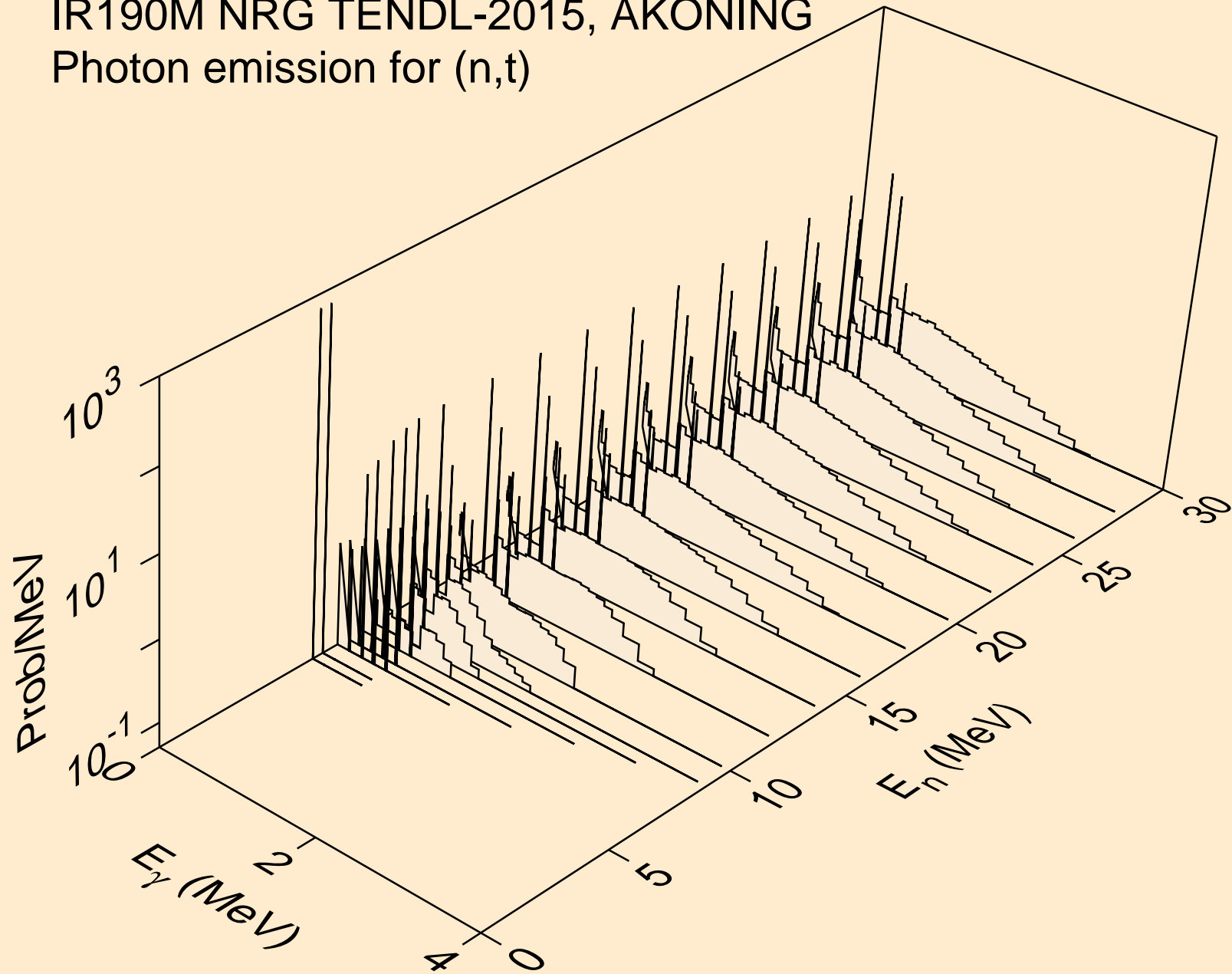
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,p)



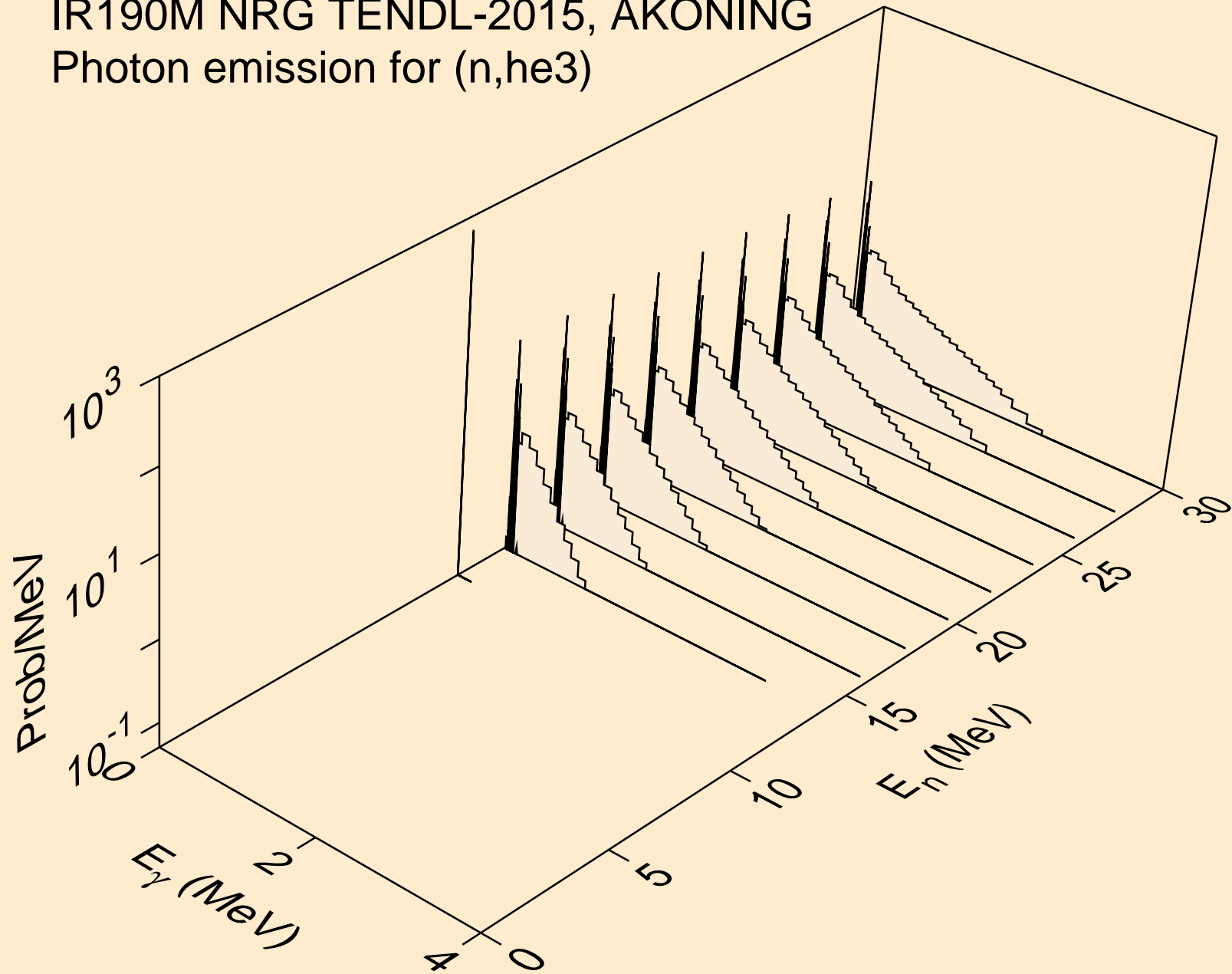
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Photon emission for (n,d)



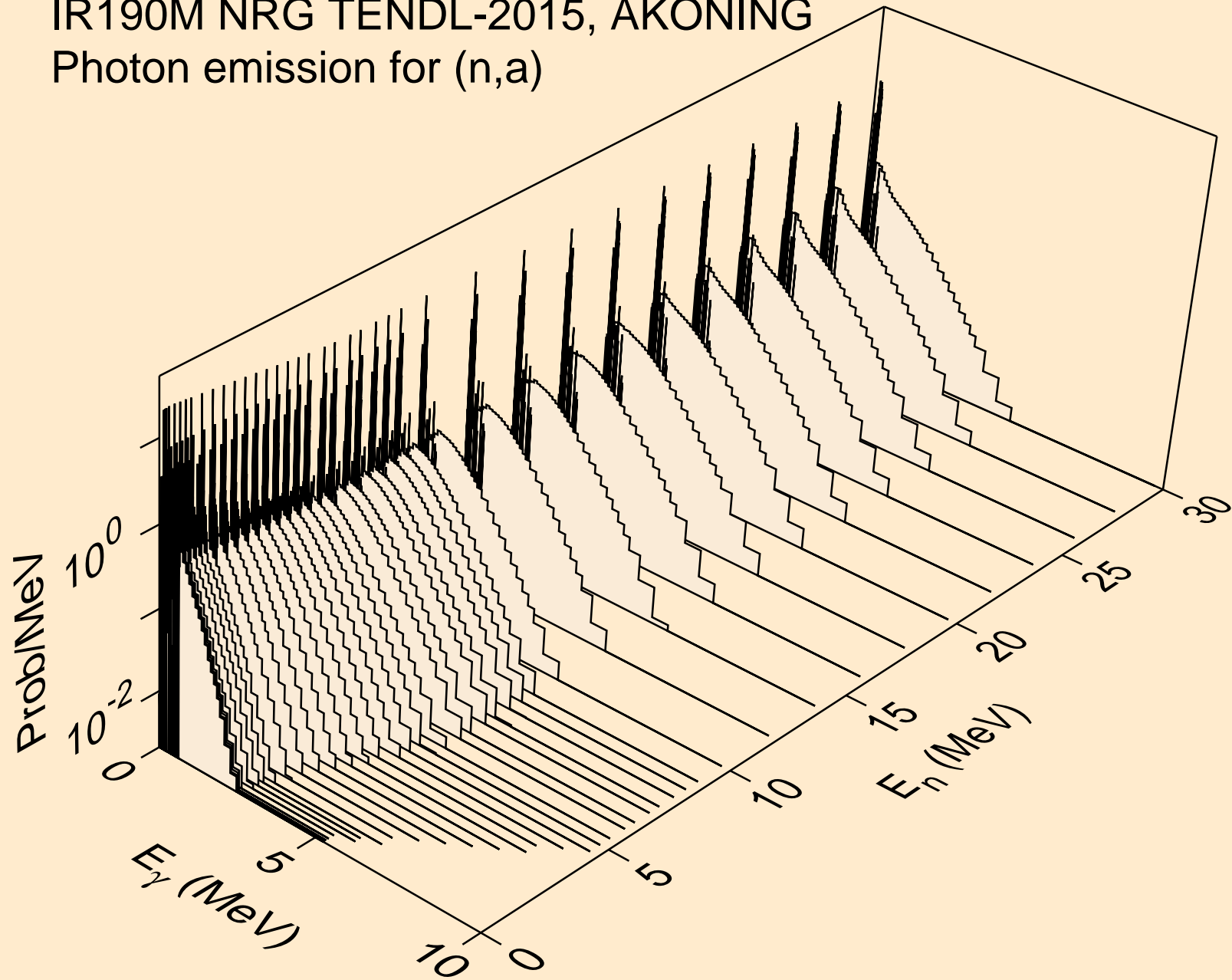
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Photon emission for (n,t)



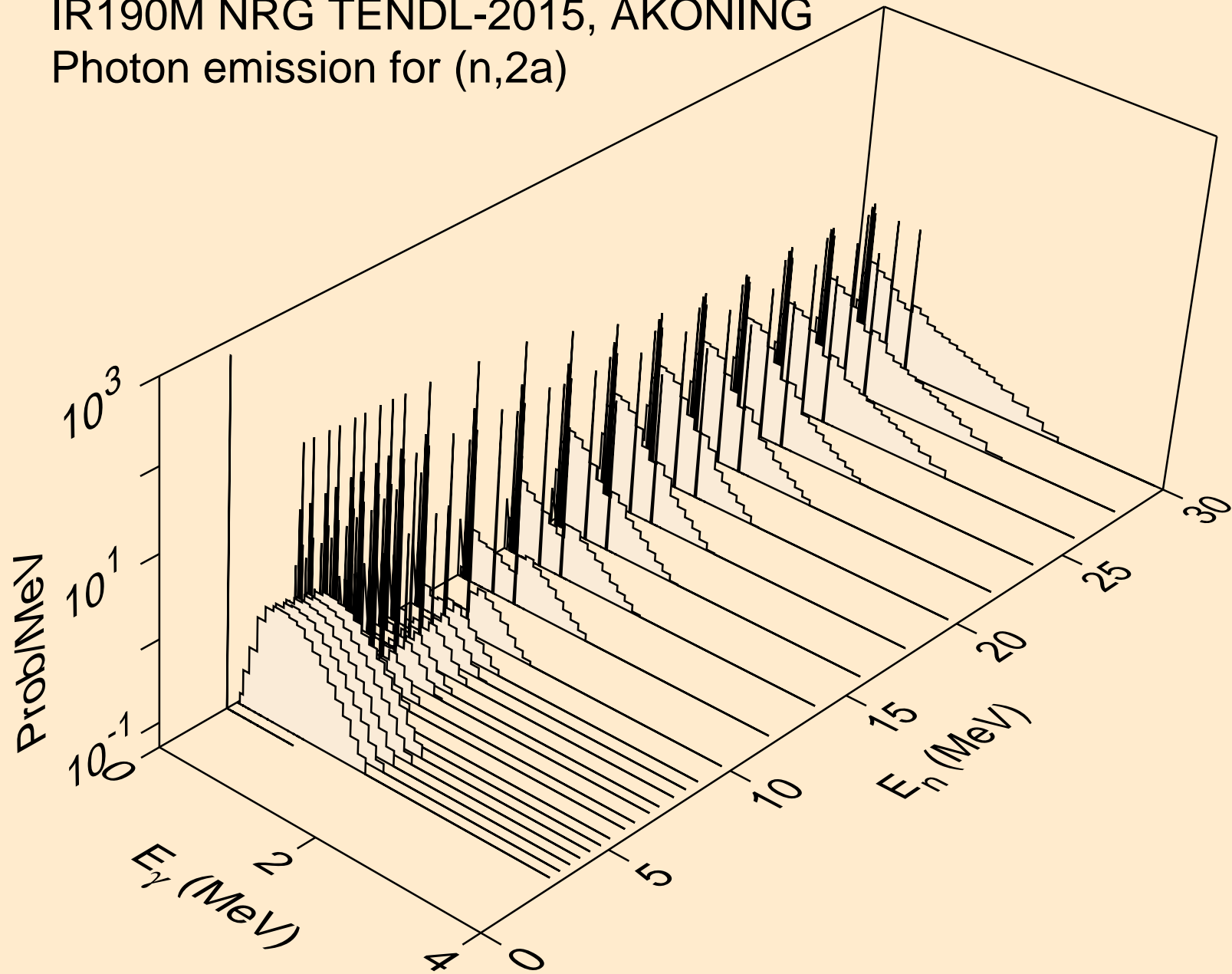
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Photon emission for (n,he3)



IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,a)

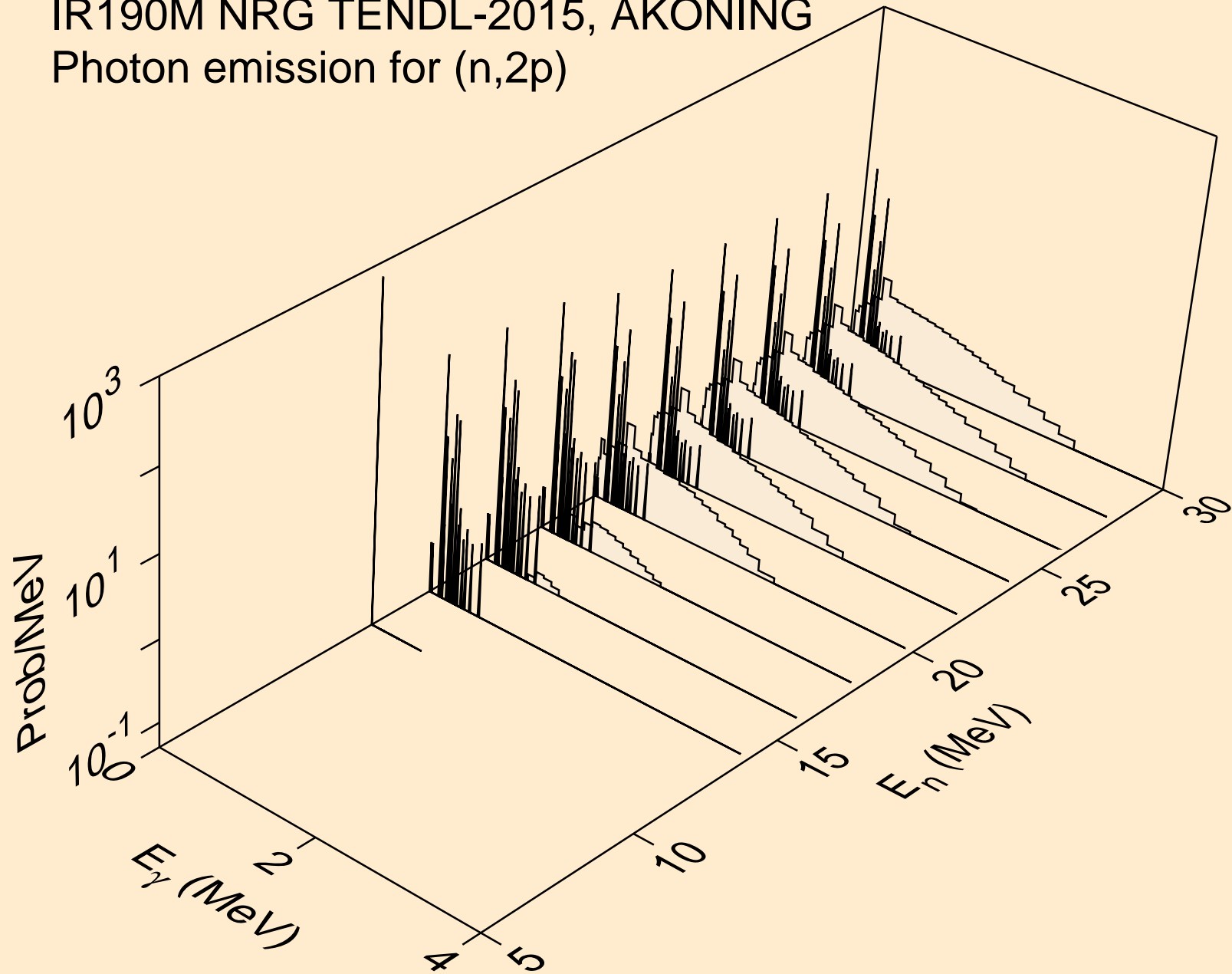


IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,2a)

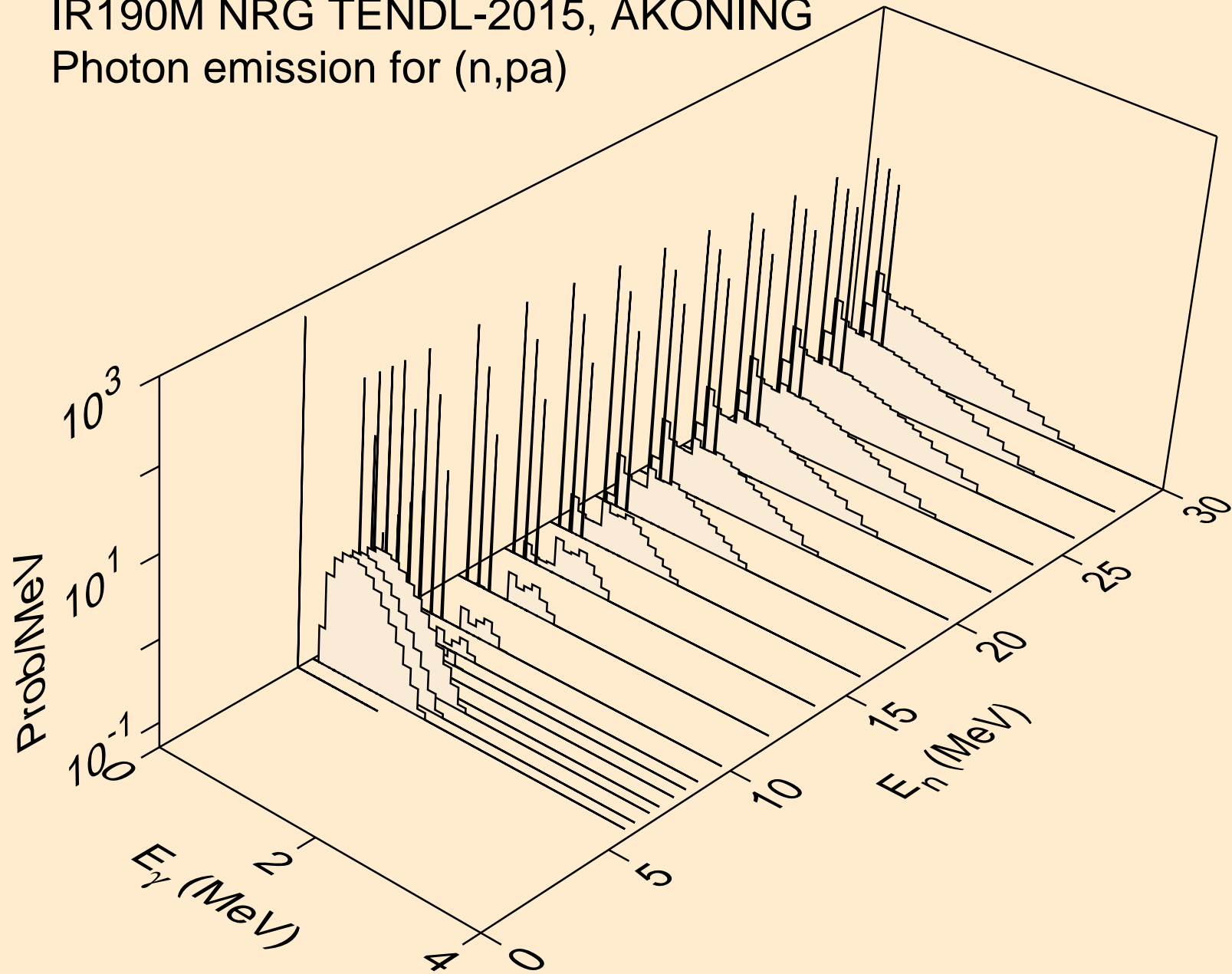




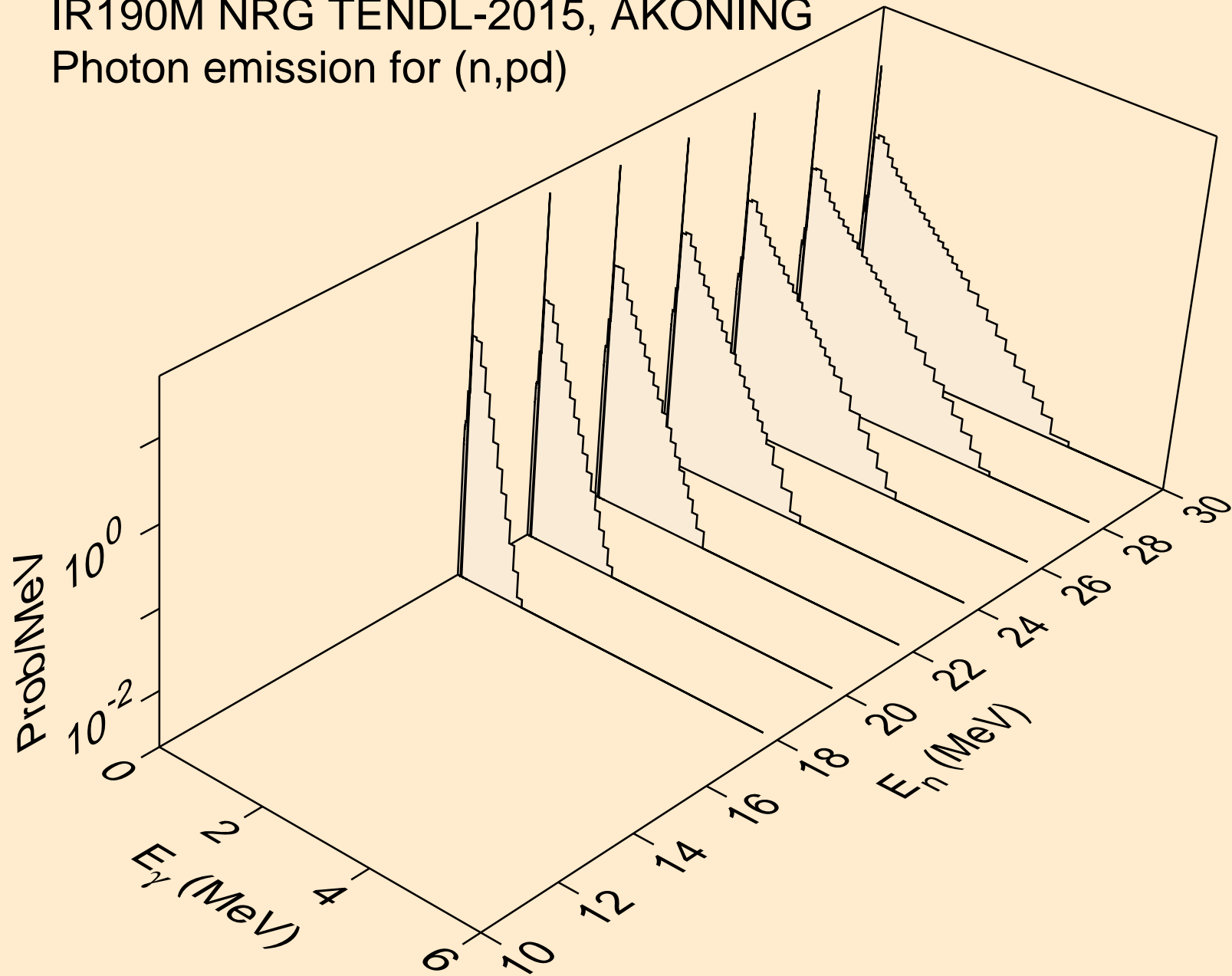
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Photon emission for (n,2p)



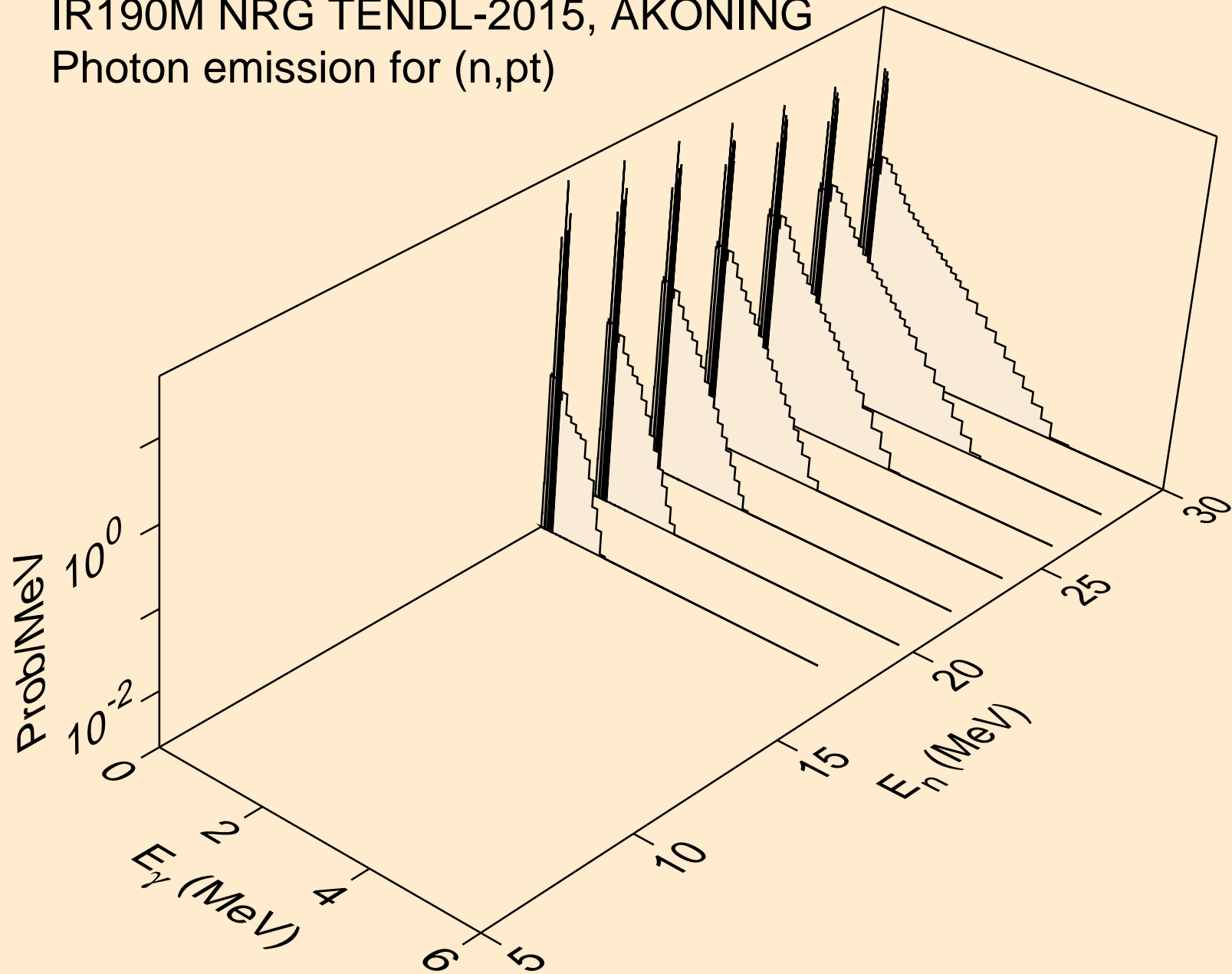
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,p $\alpha$ )



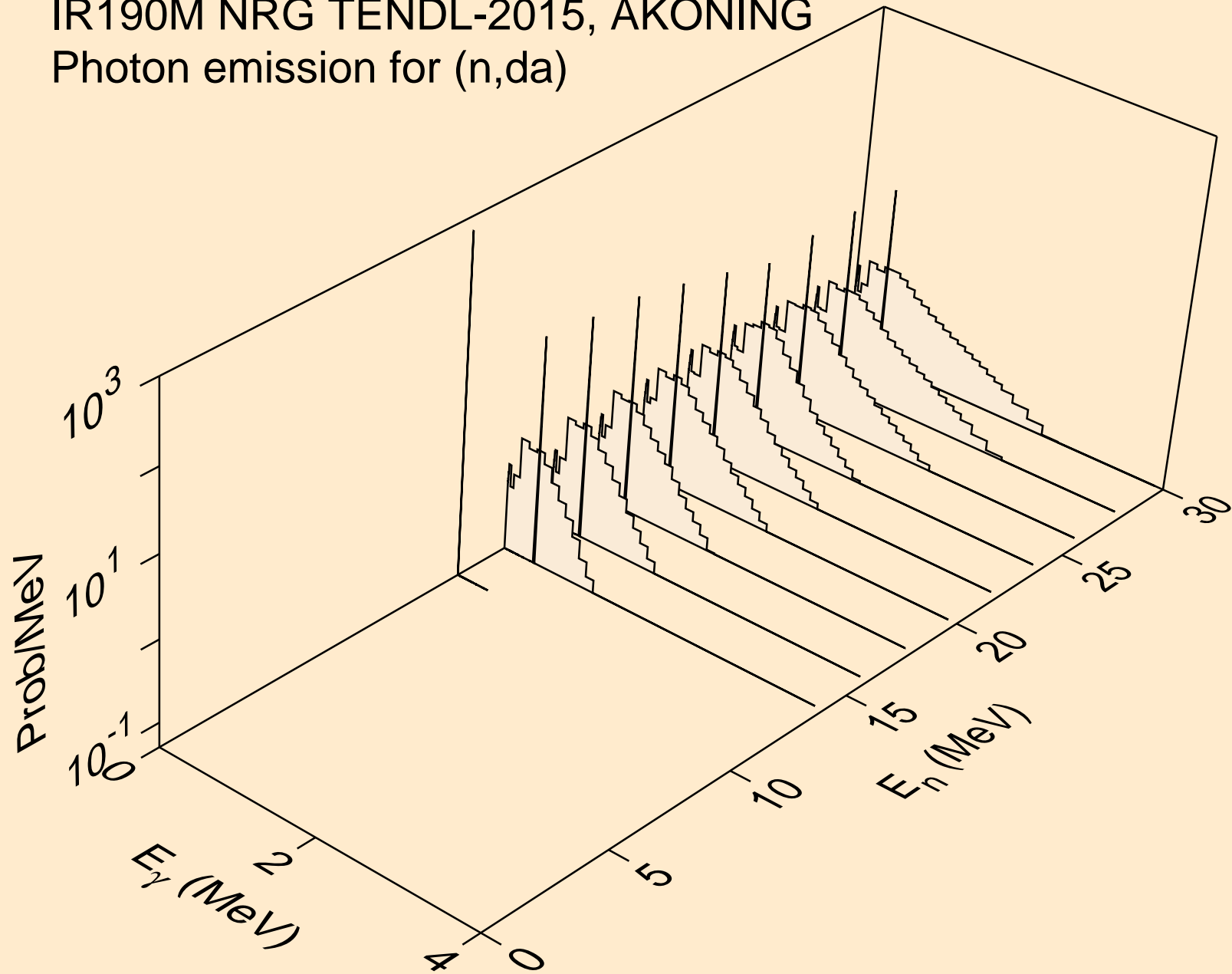
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Photon emission for (n,pd)



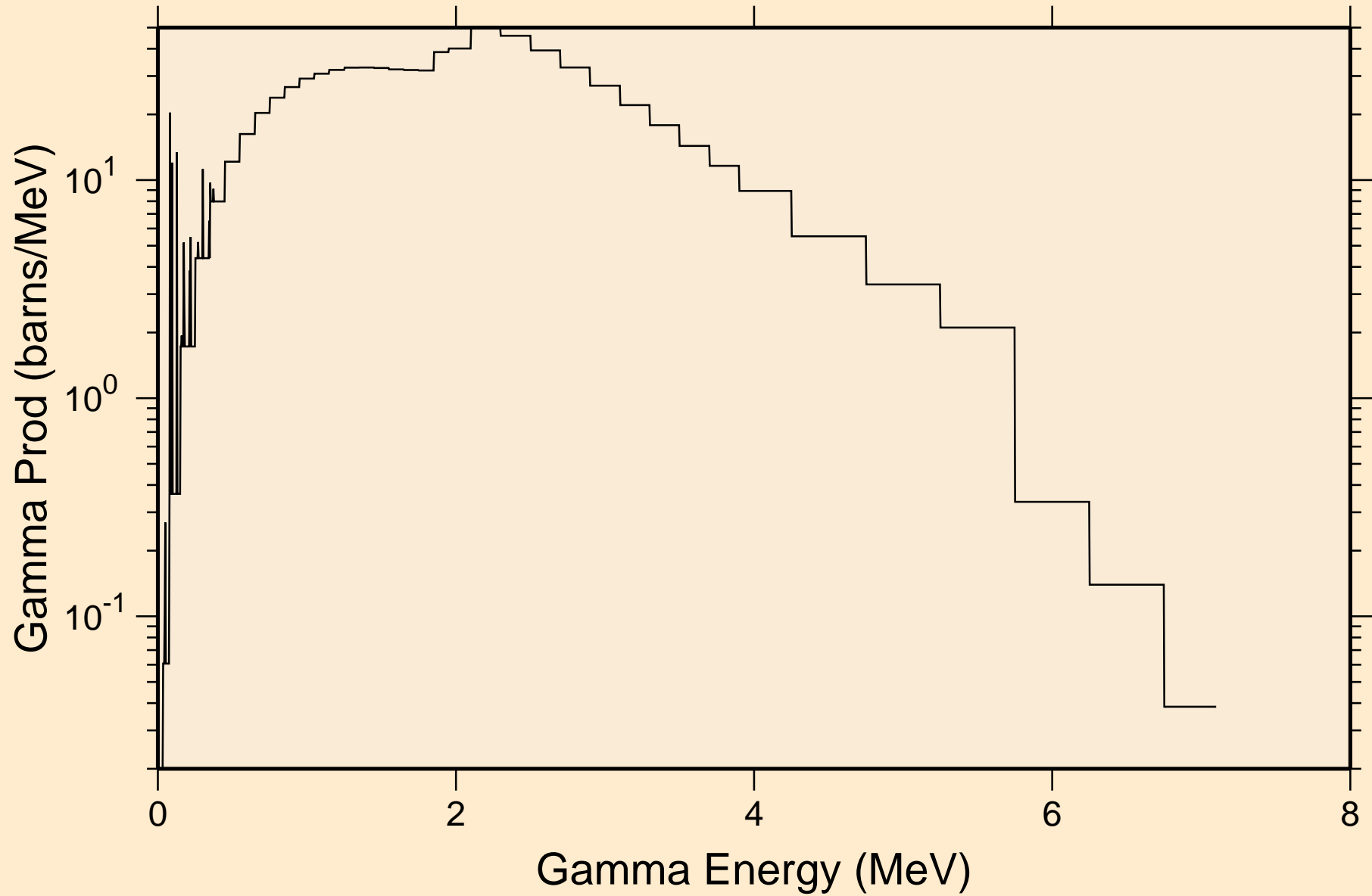
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Photon emission for (n,pt)



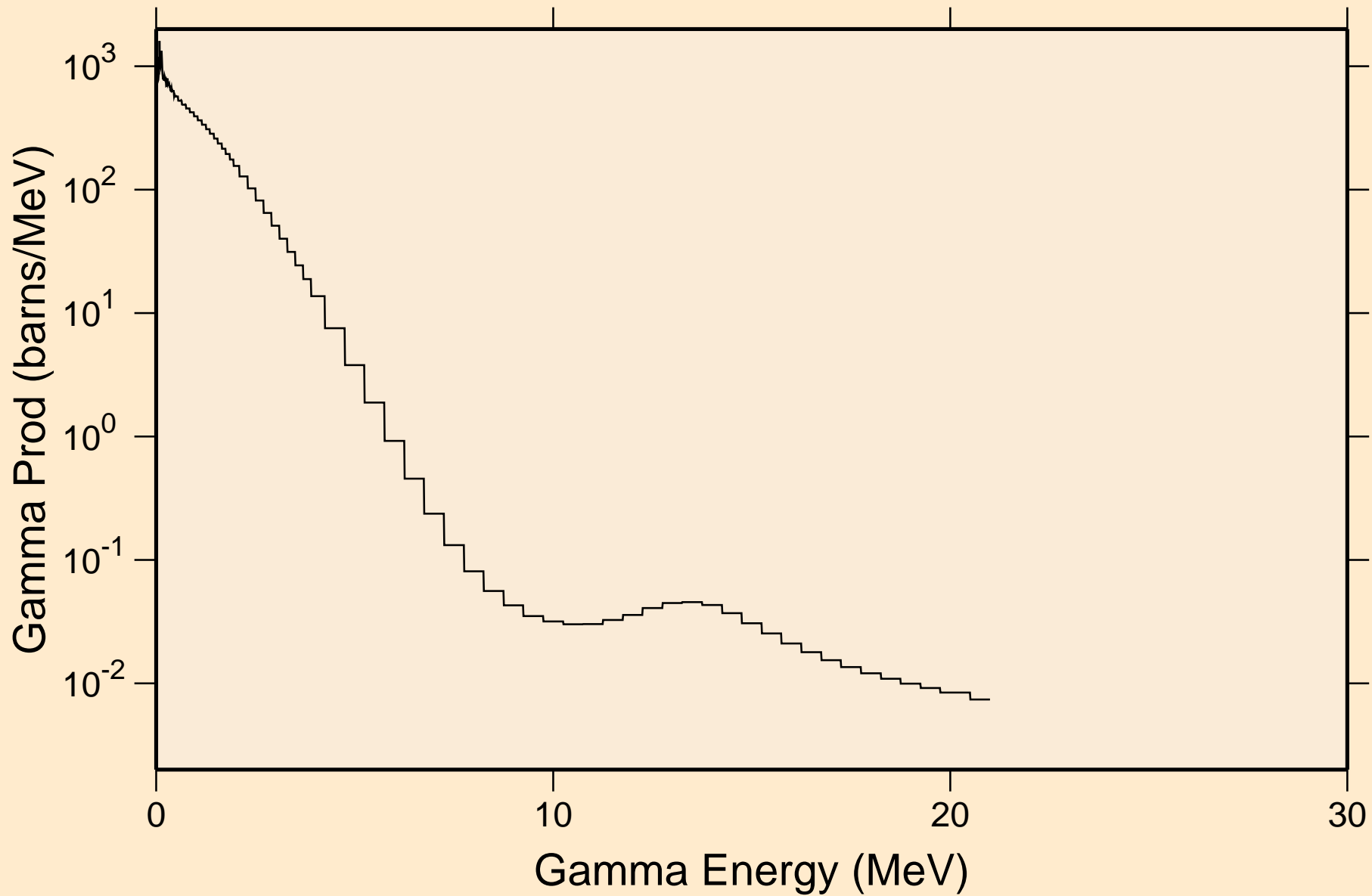
IR190M NRG TENDL-2015, AKONING  
Photon emission for (n,da)



IR190M NRG TENDL-2015, AKONING  
thermal capture photon spectrum

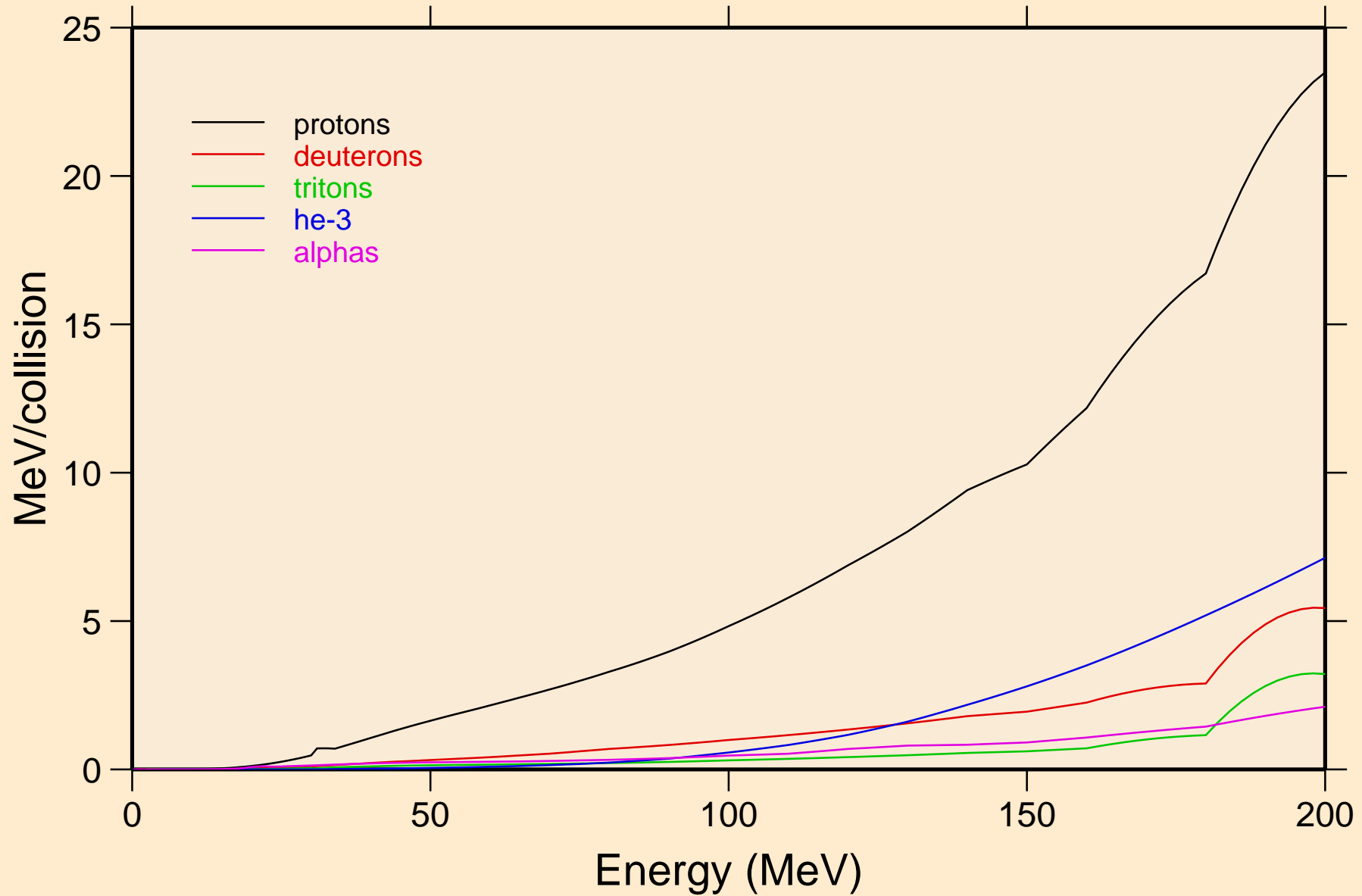


IR190M NRG TENDL-2015, AKONING  
14 MeV photon spectrum



# IR190M NRG TENDL-2015, AKONING

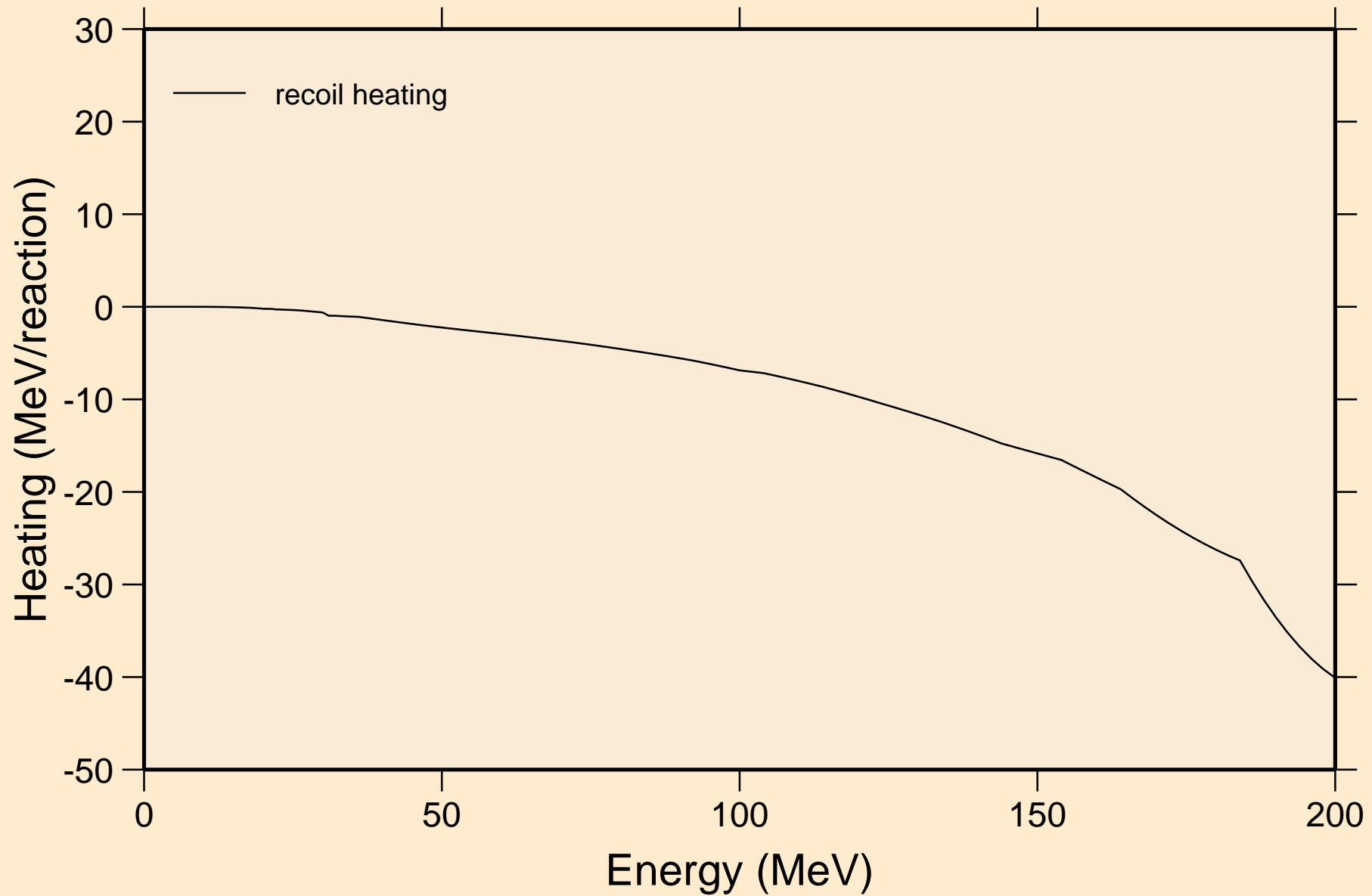
## Particle heating contributions





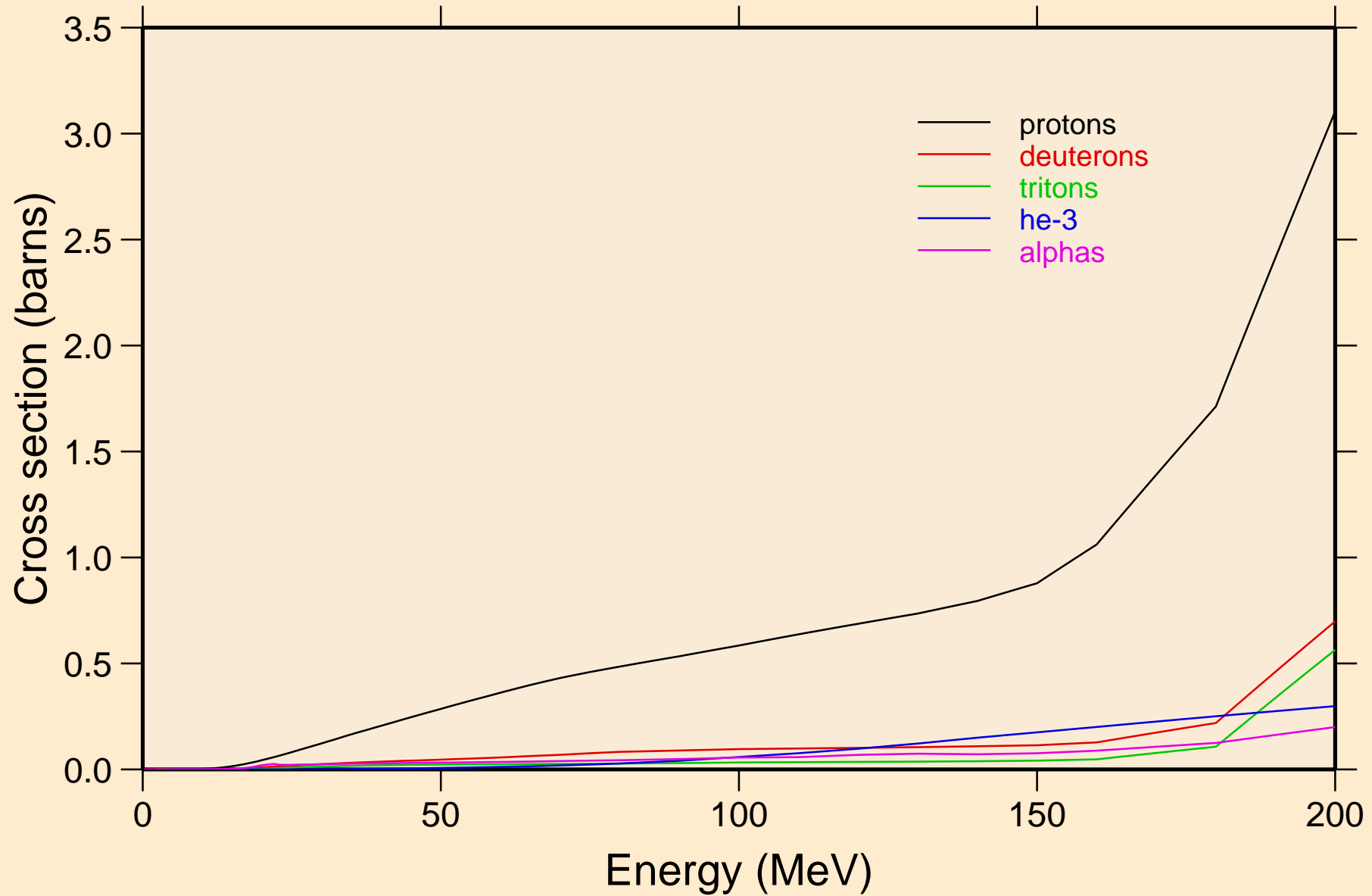
# IR190M NRG TENDL-2015, AKONING

## Recoil Heating

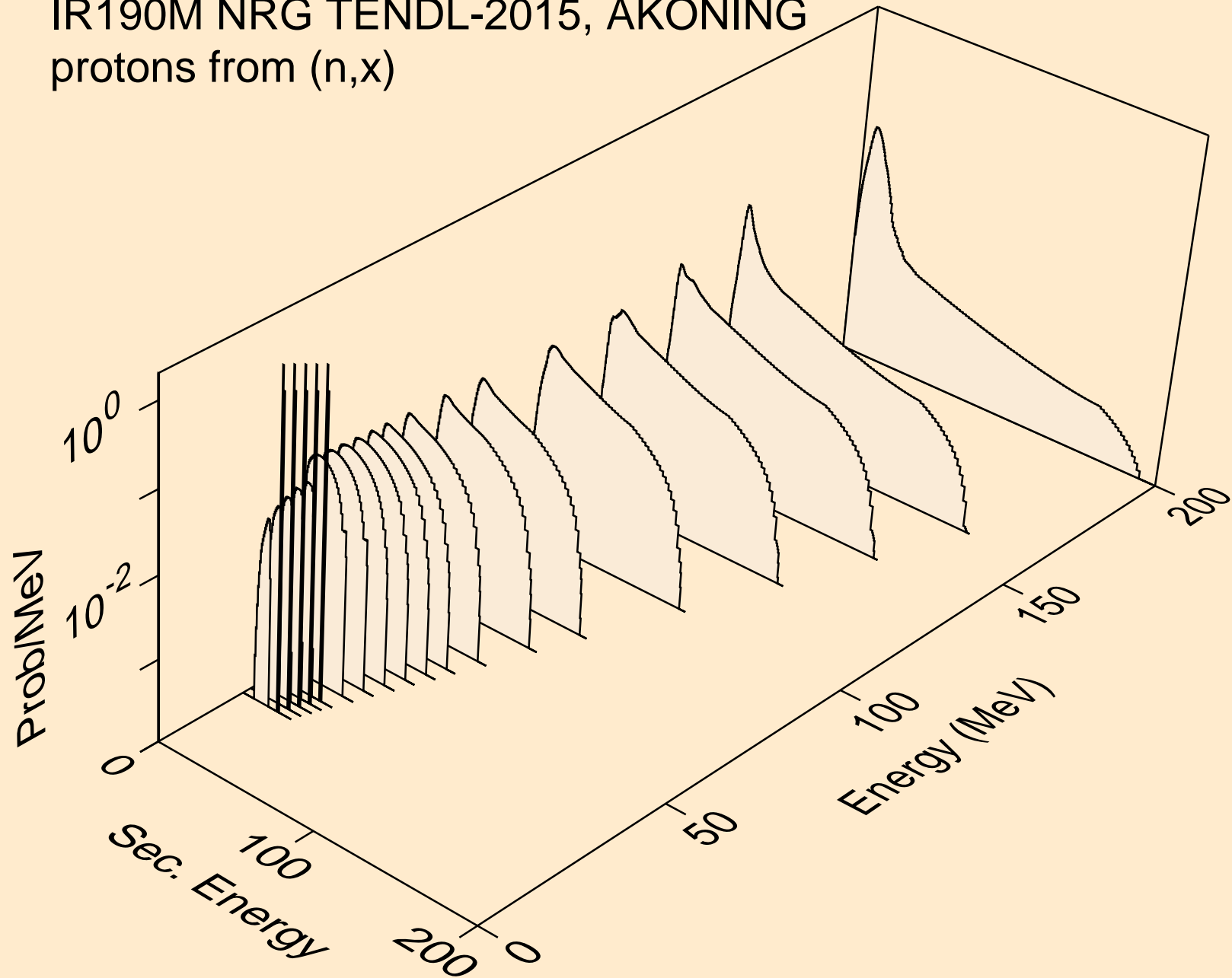


# IR190M NRG TENDL-2015, AKONING

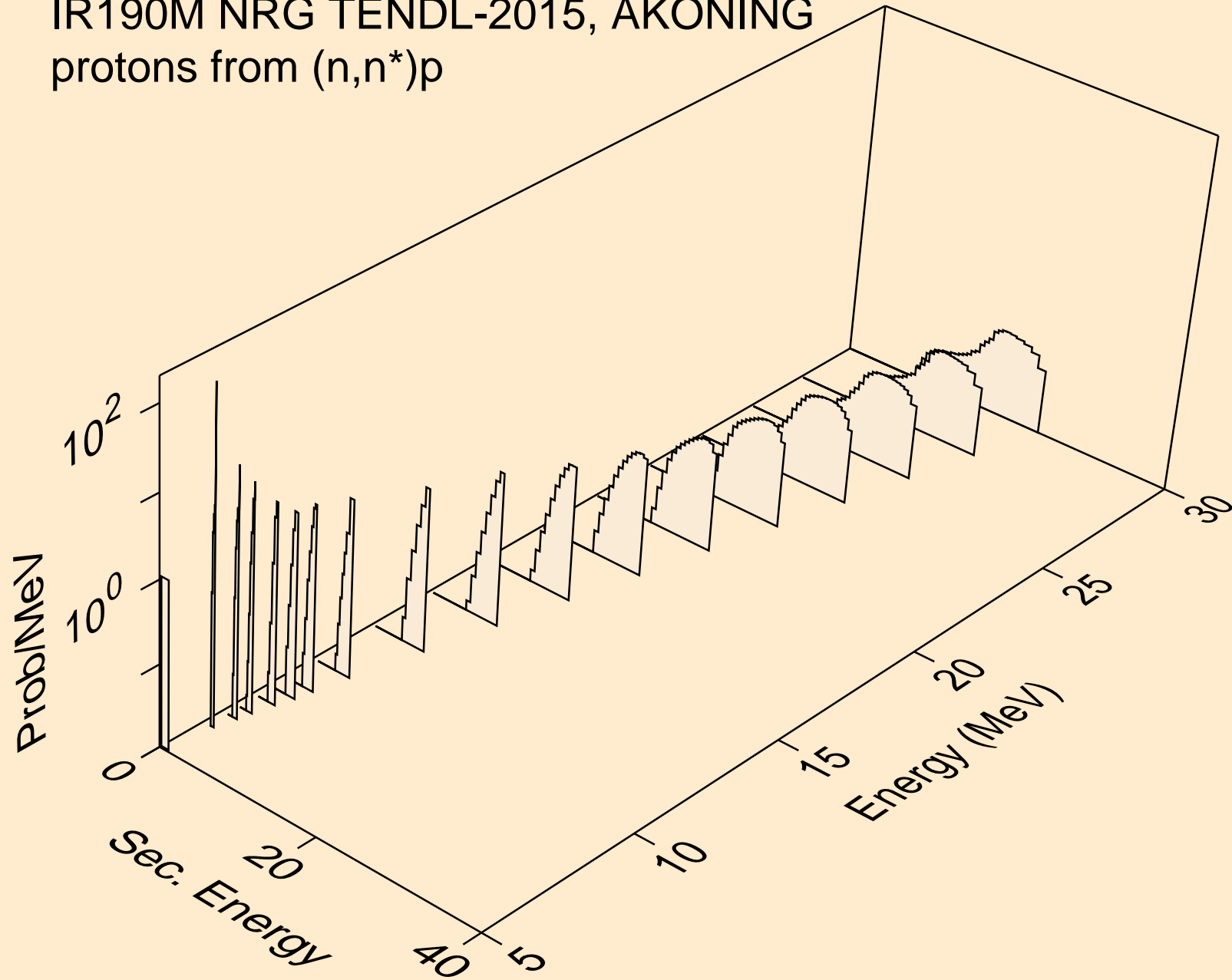
## Particle production cross sections



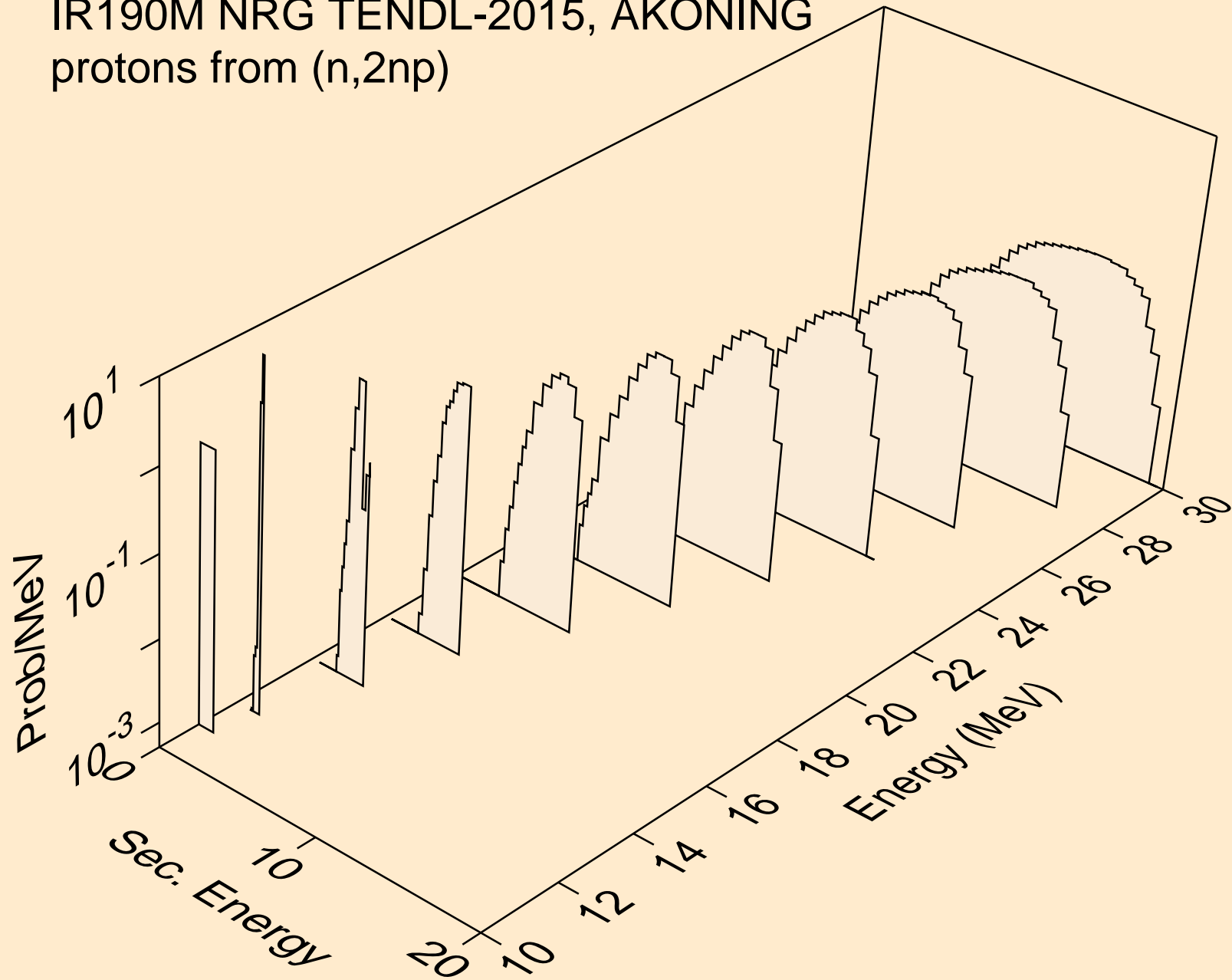
IR190M NRG TENDL-2015, AKONING  
protons from (n,x)



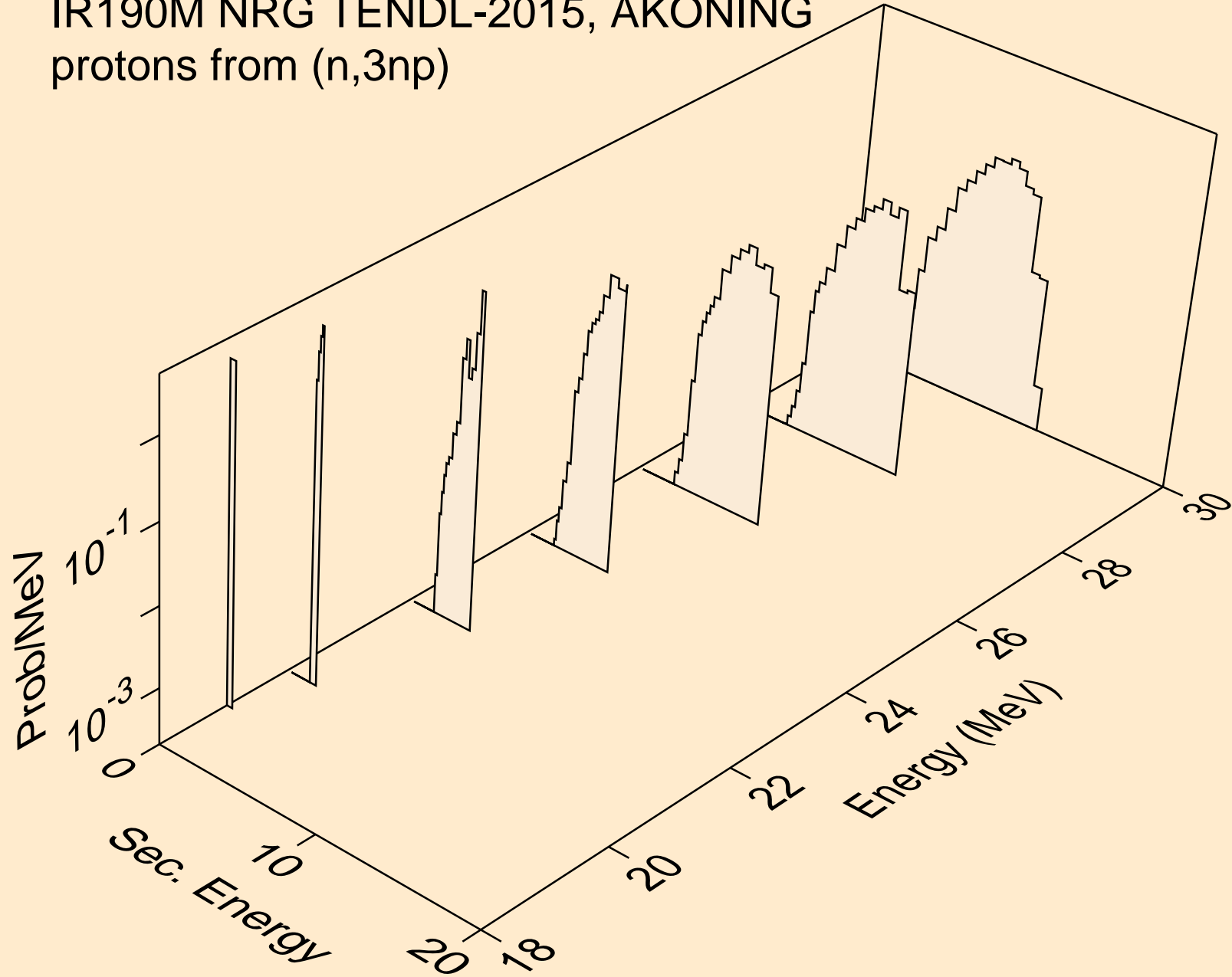
IR190M NRG TENDL-2015, AKONING  
protons from (n,n\*)p



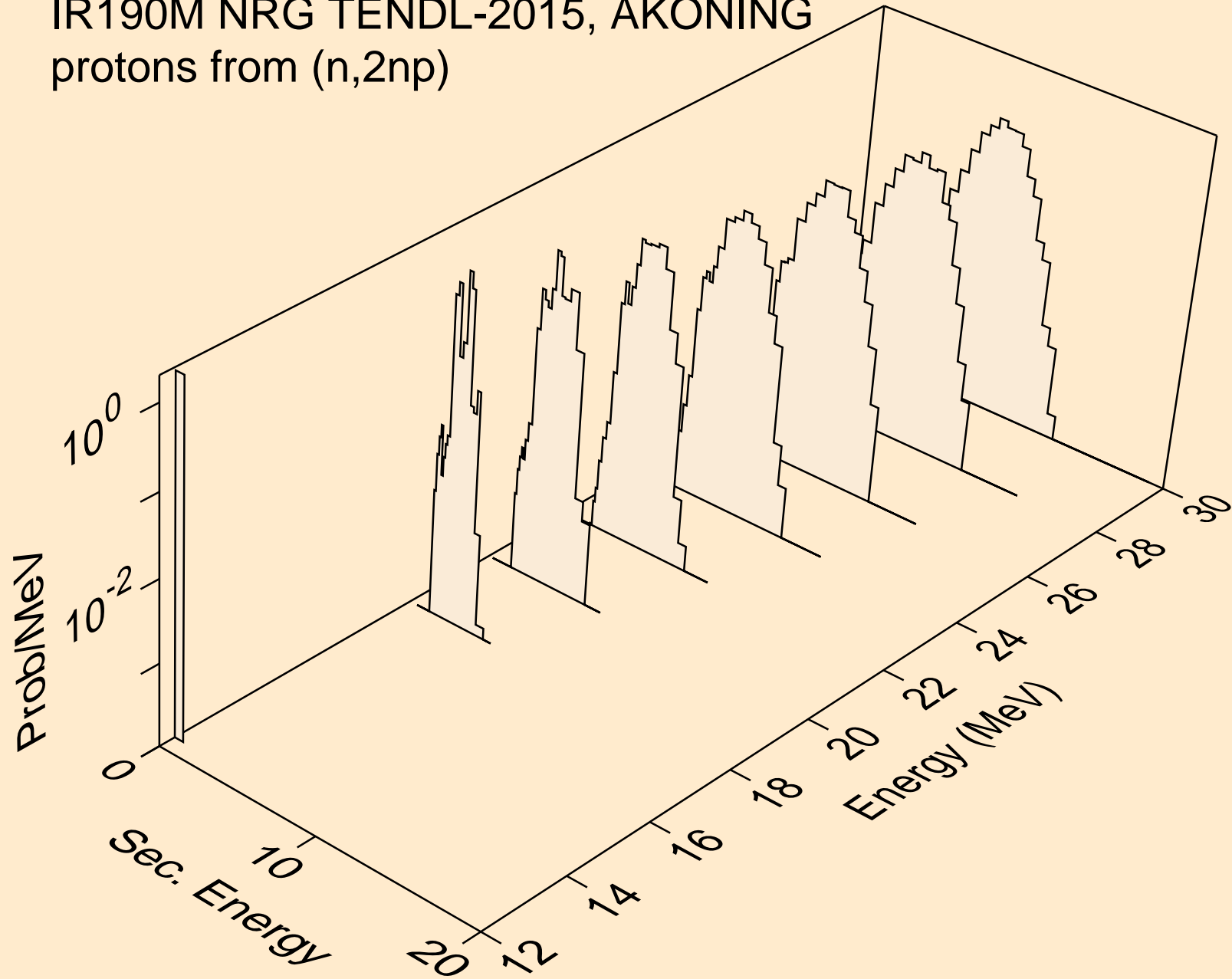
IR190M NRG TENDL-2015, AKONING  
protons from (n,2np)



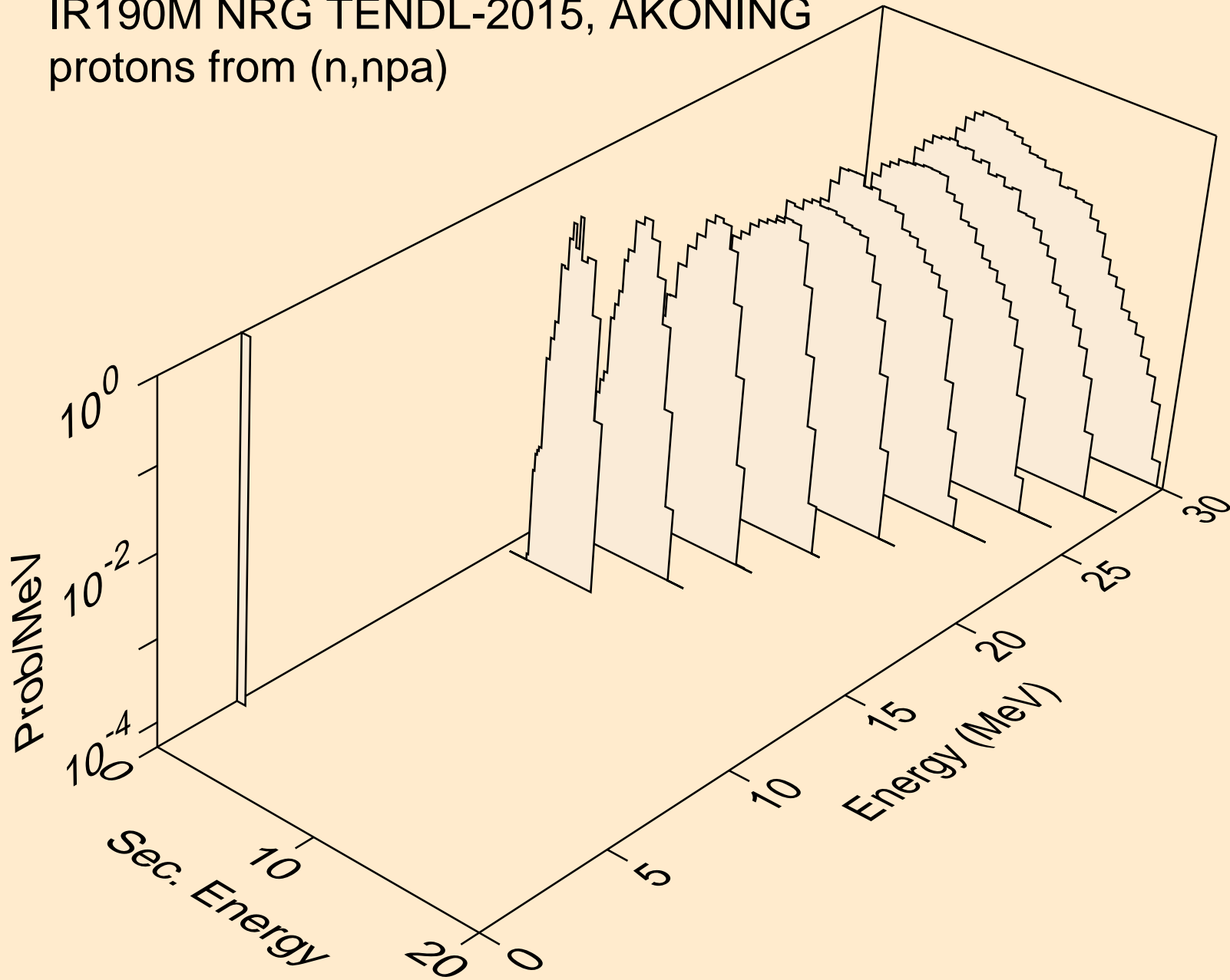
IR190M NRG TENDL-2015, AKONING  
protons from (n,3np)



IR190M NRG TENDL-2015, AKONING  
protons from (n,2np)

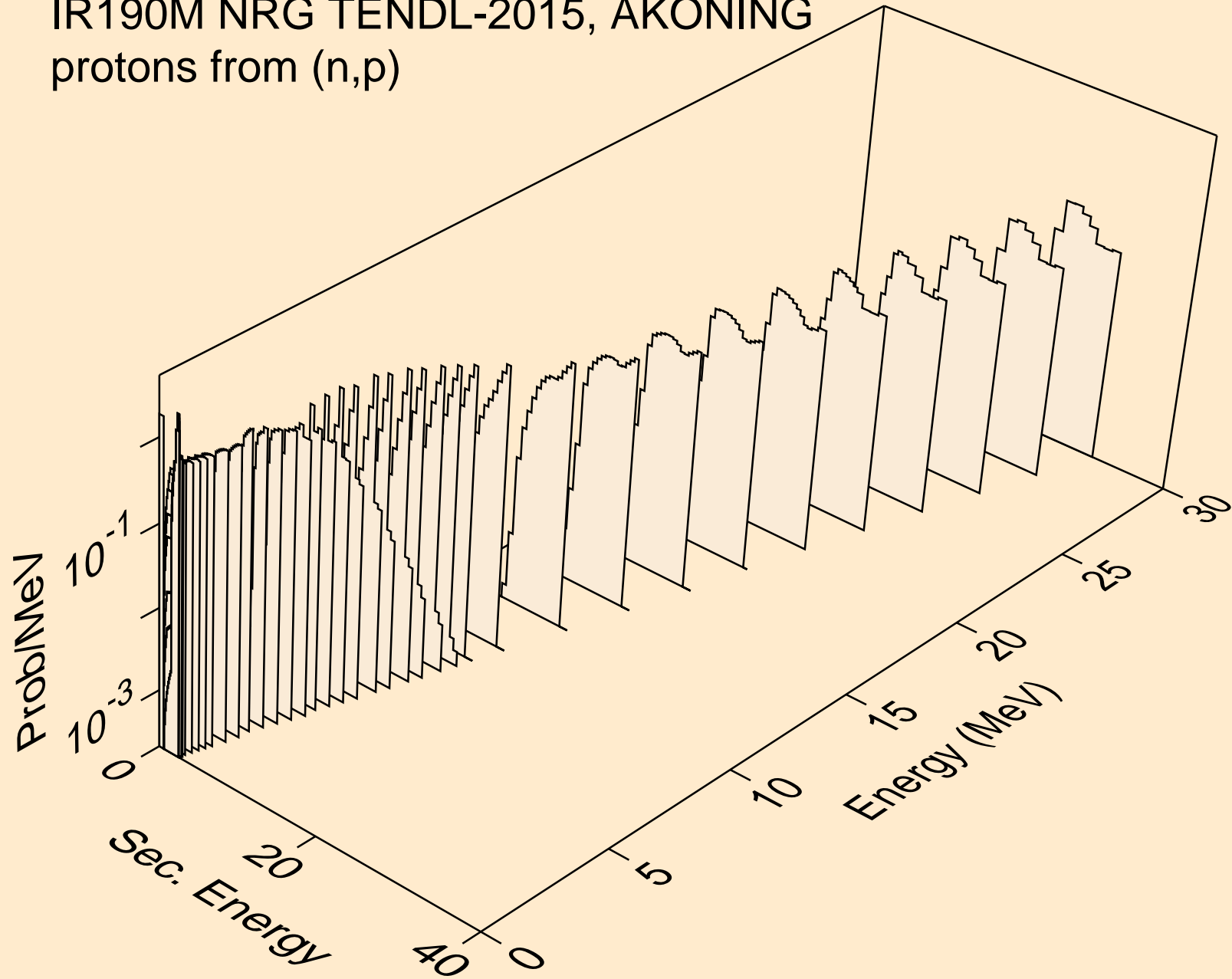


IR190M NRG TENDL-2015, AKONING  
protons from (n,npa)

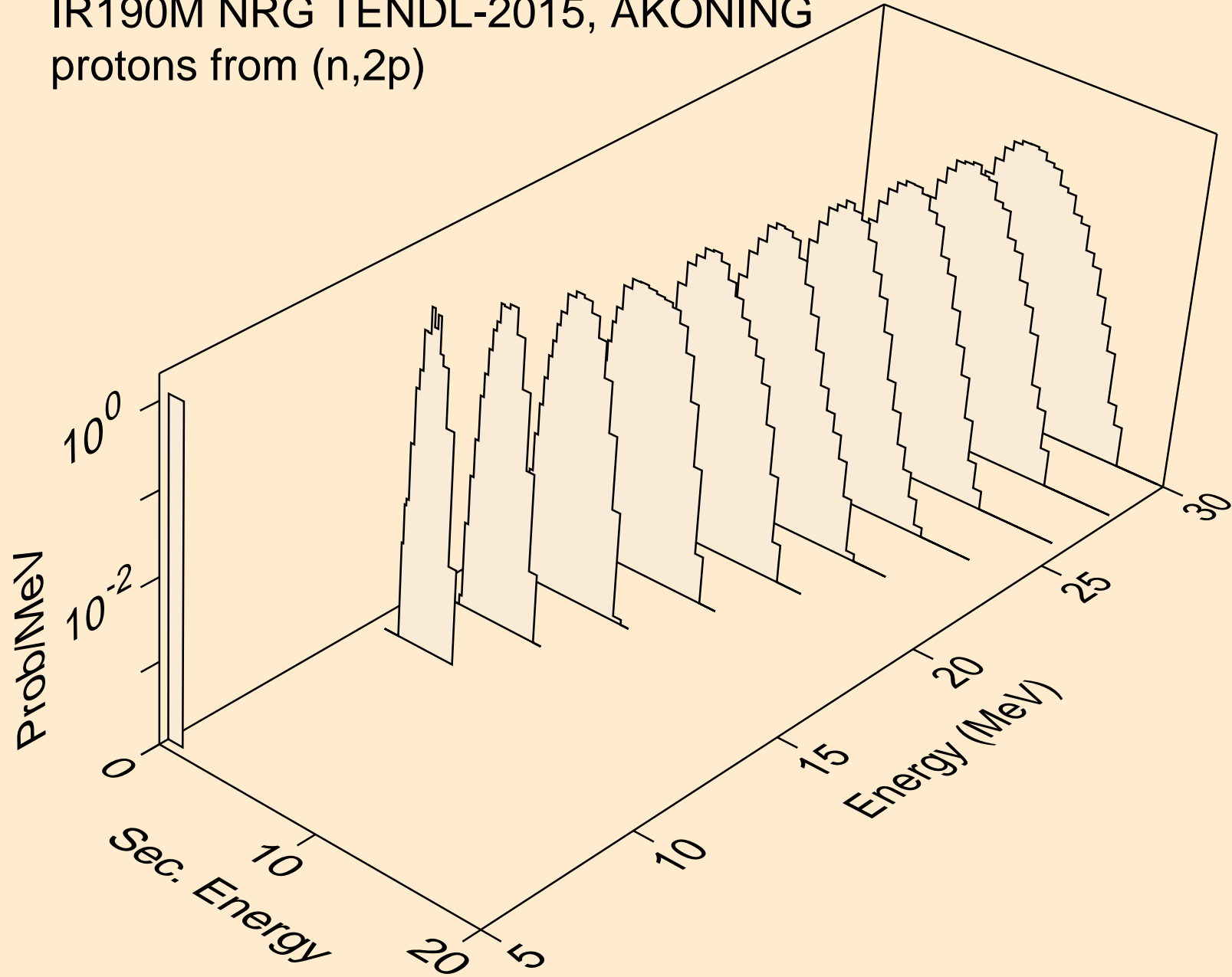




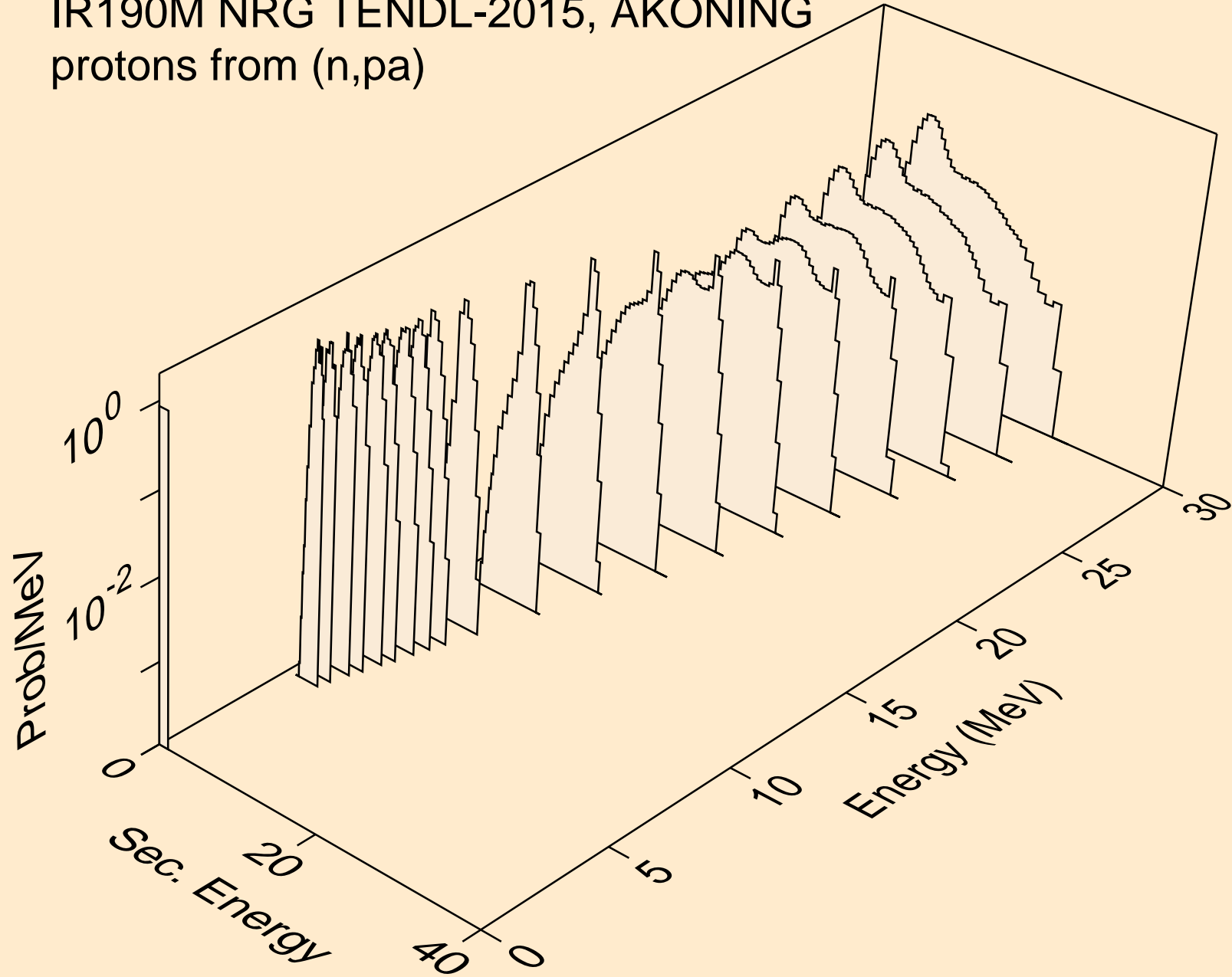
IR190M NRG TENDL-2015, AKONING  
protons from (n,p)



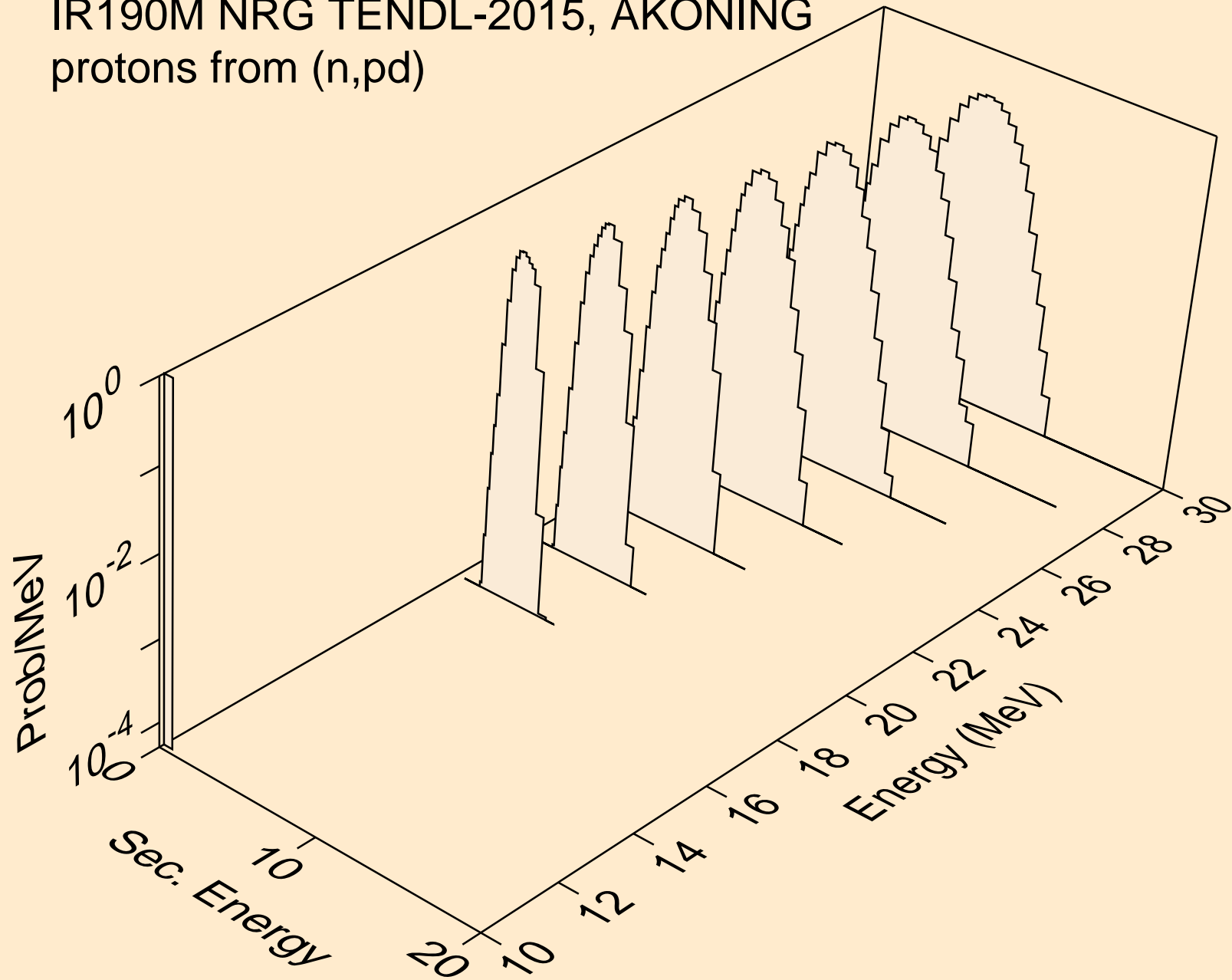
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protons from (n,2p)



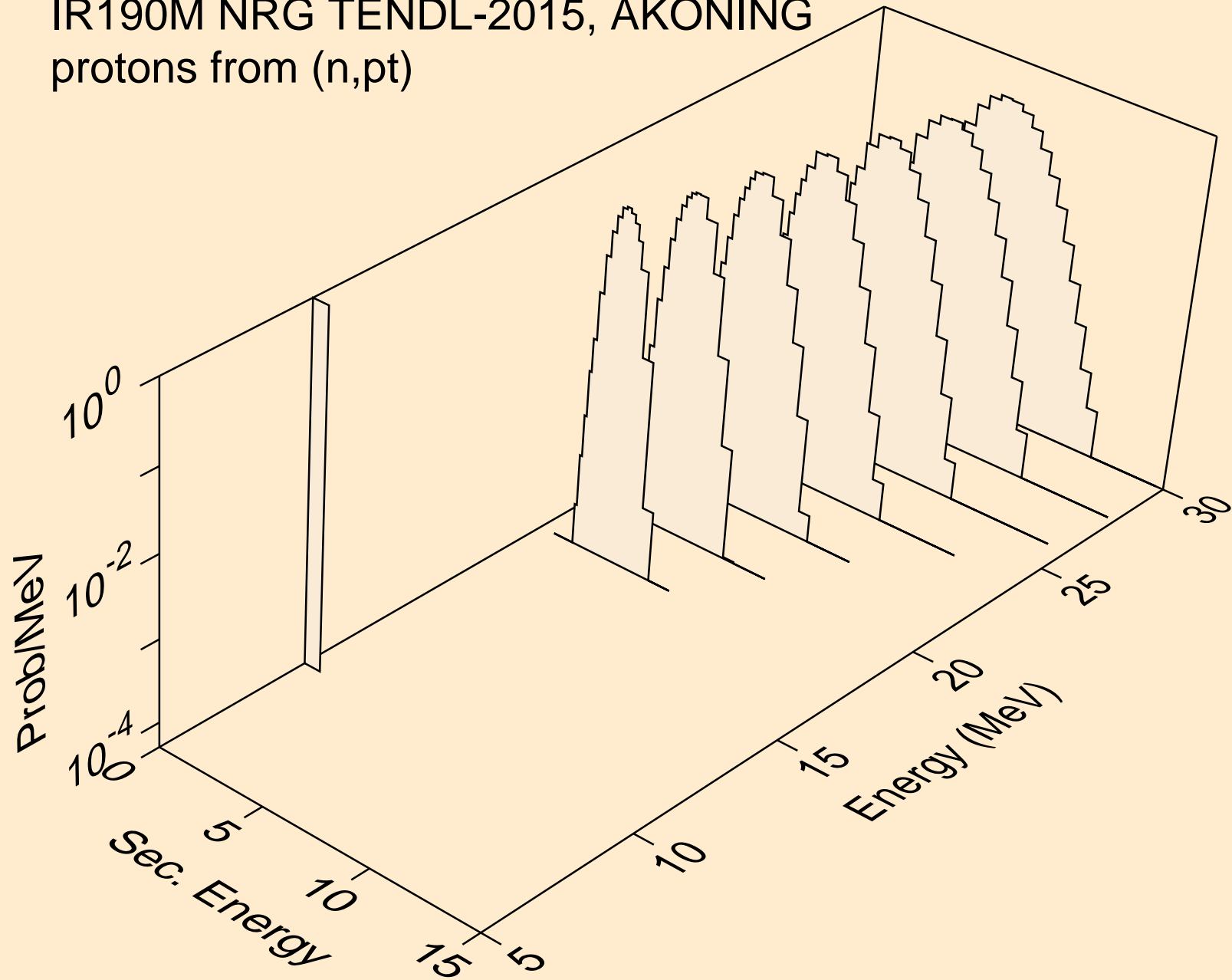
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protons from (n,pa)



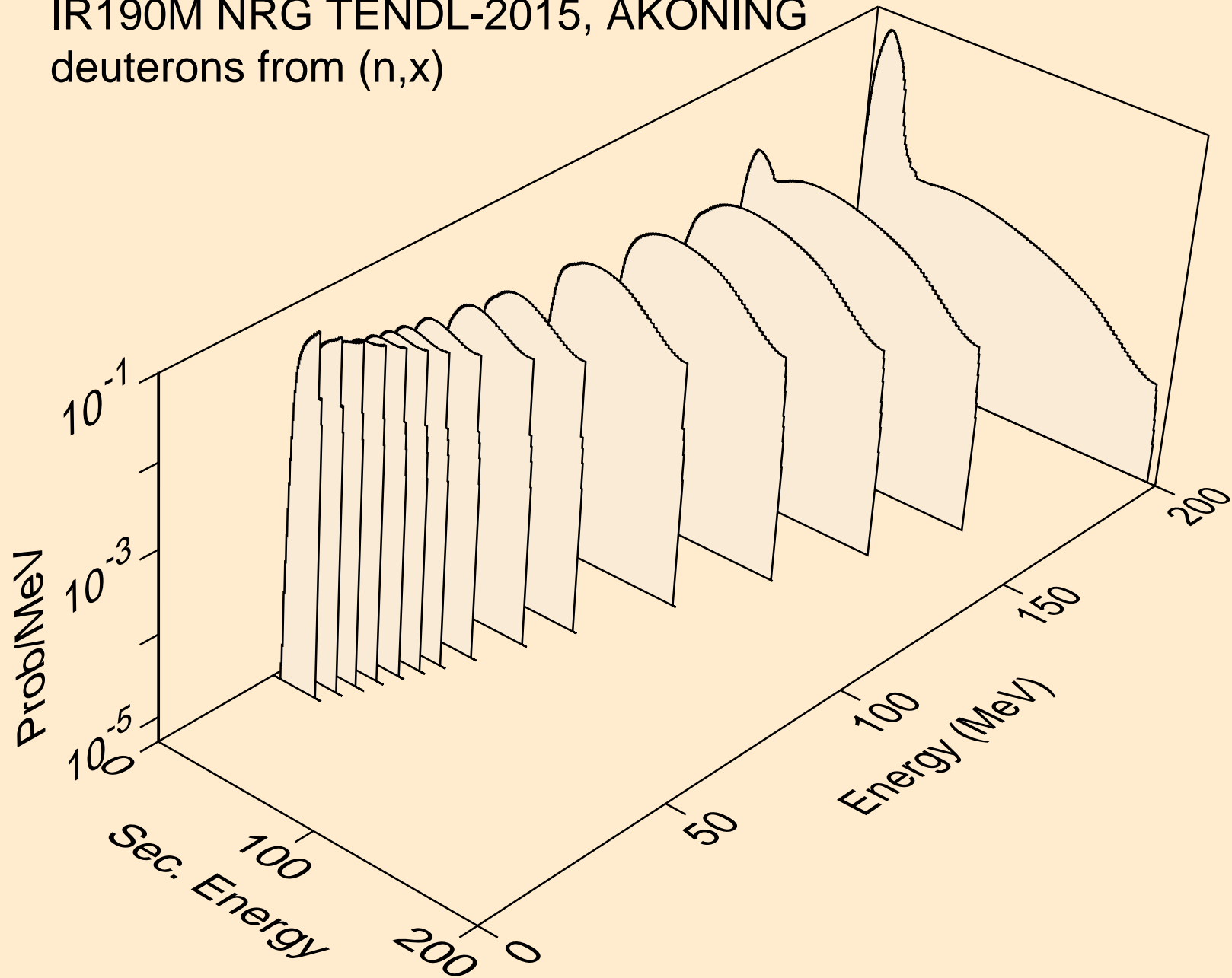
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protons from (n,pd)



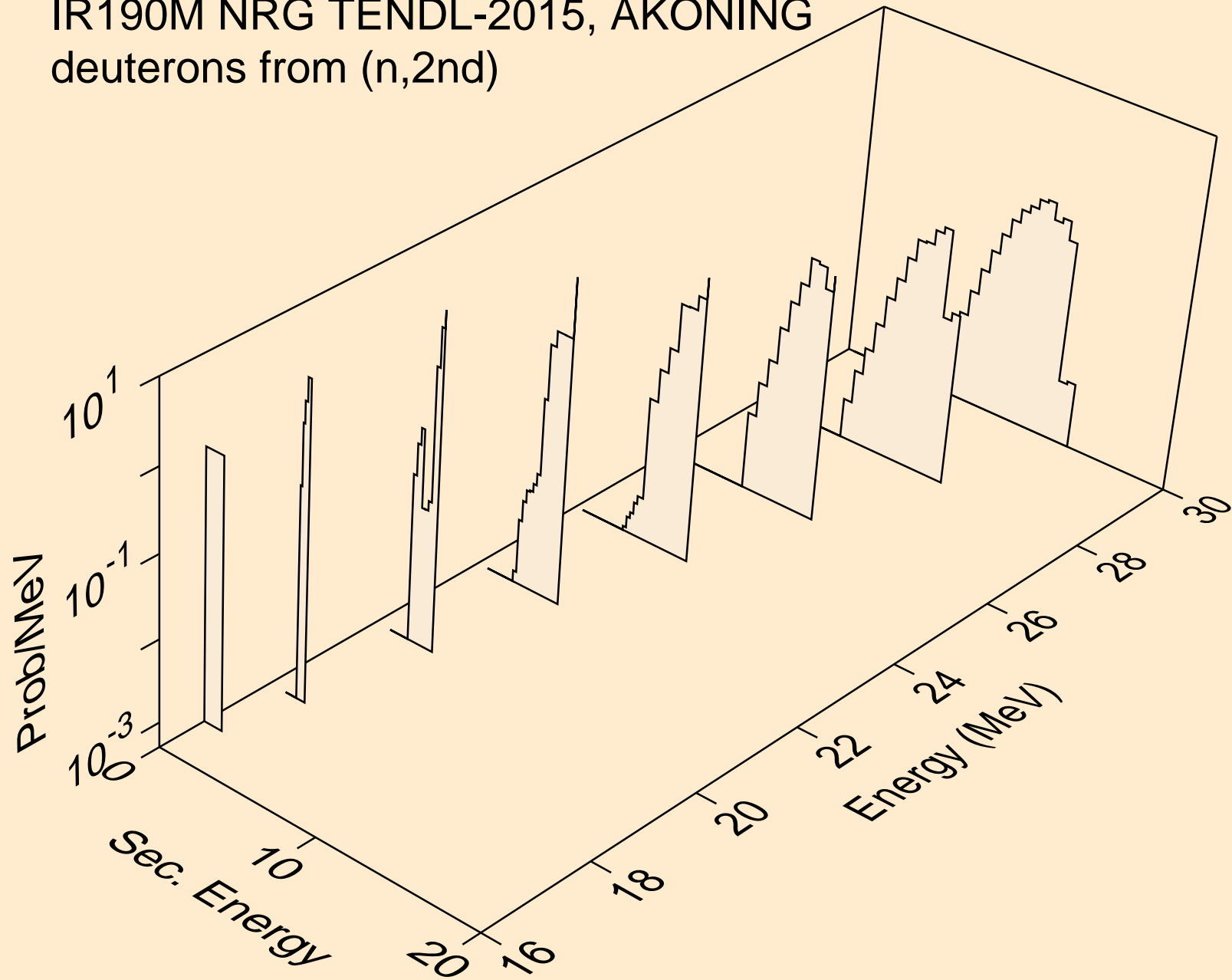
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protons from (n,pt)



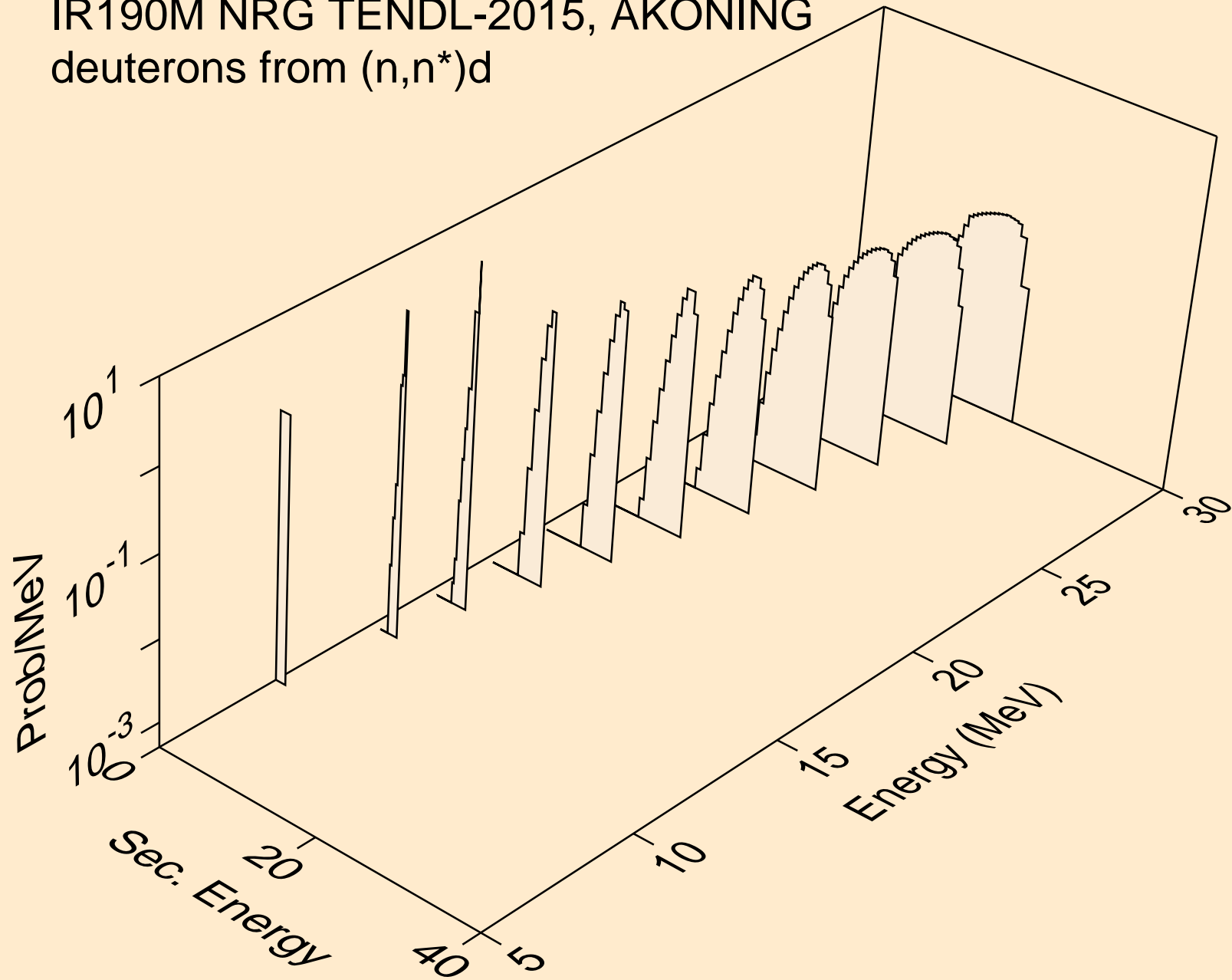
IR190M NRG TENDL-2015, AKONING  
deuterons from (n,x)



IR190M NRG TENDL-2015, AKONING  
deuterons from (n,2nd)

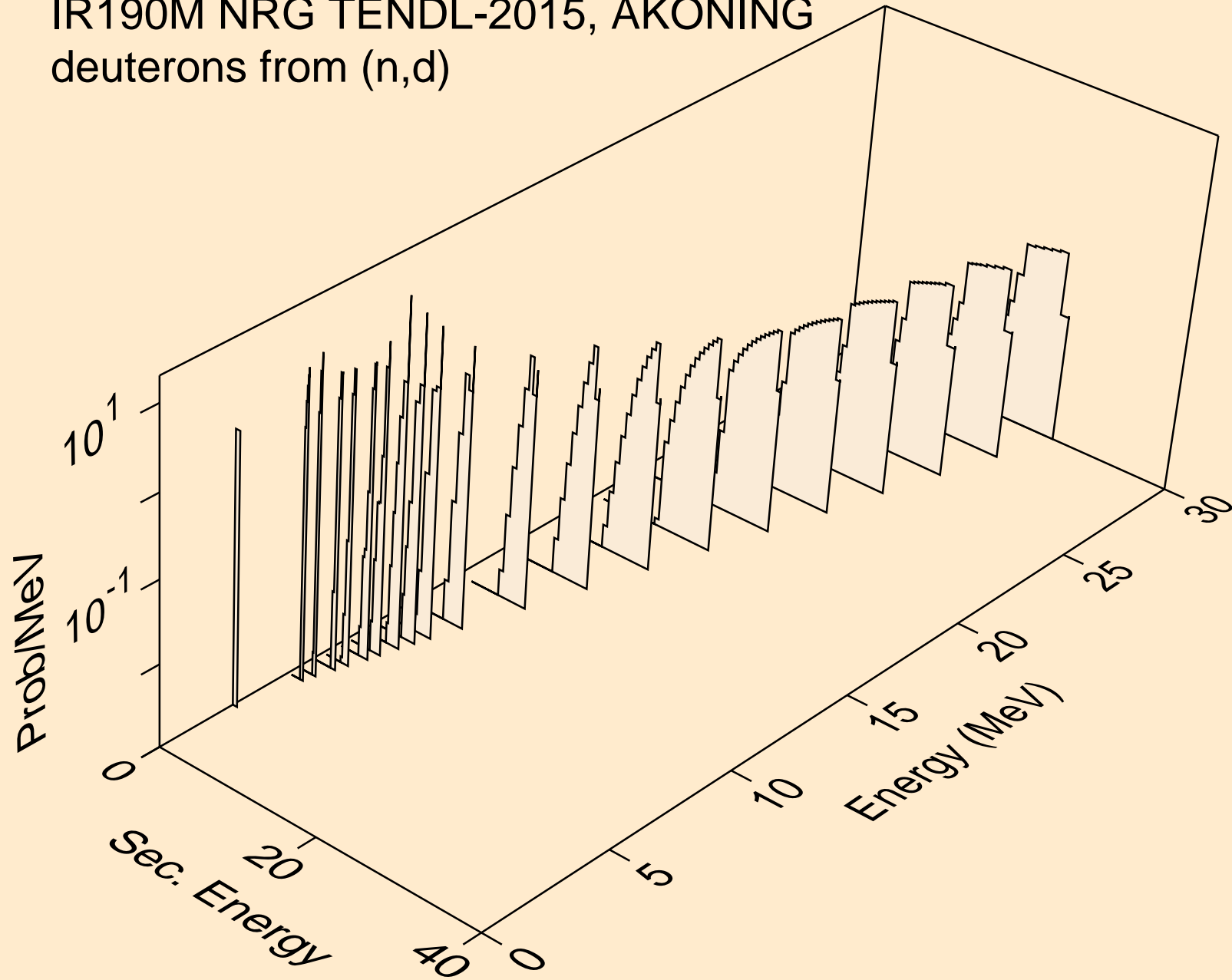


IR190M NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d

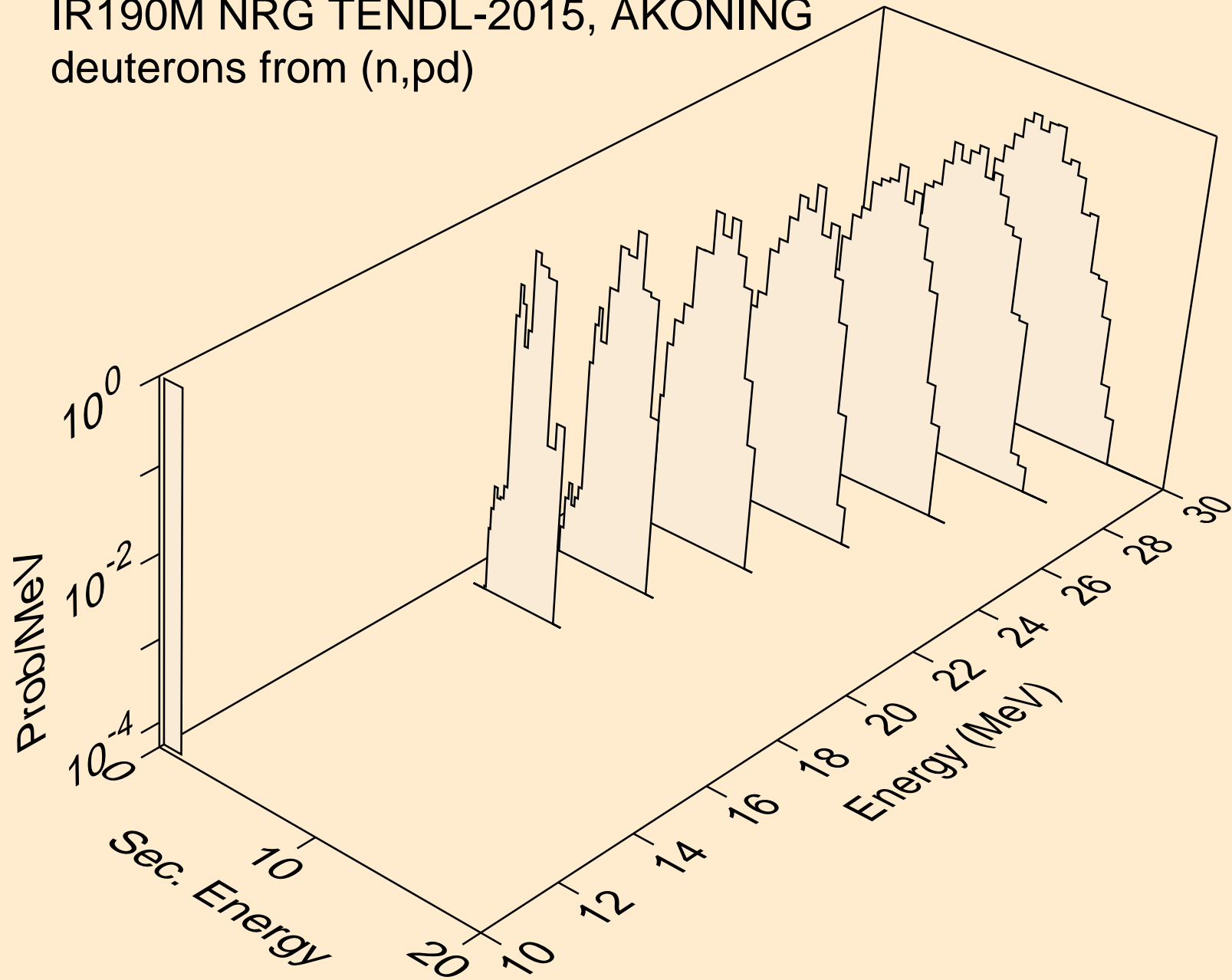




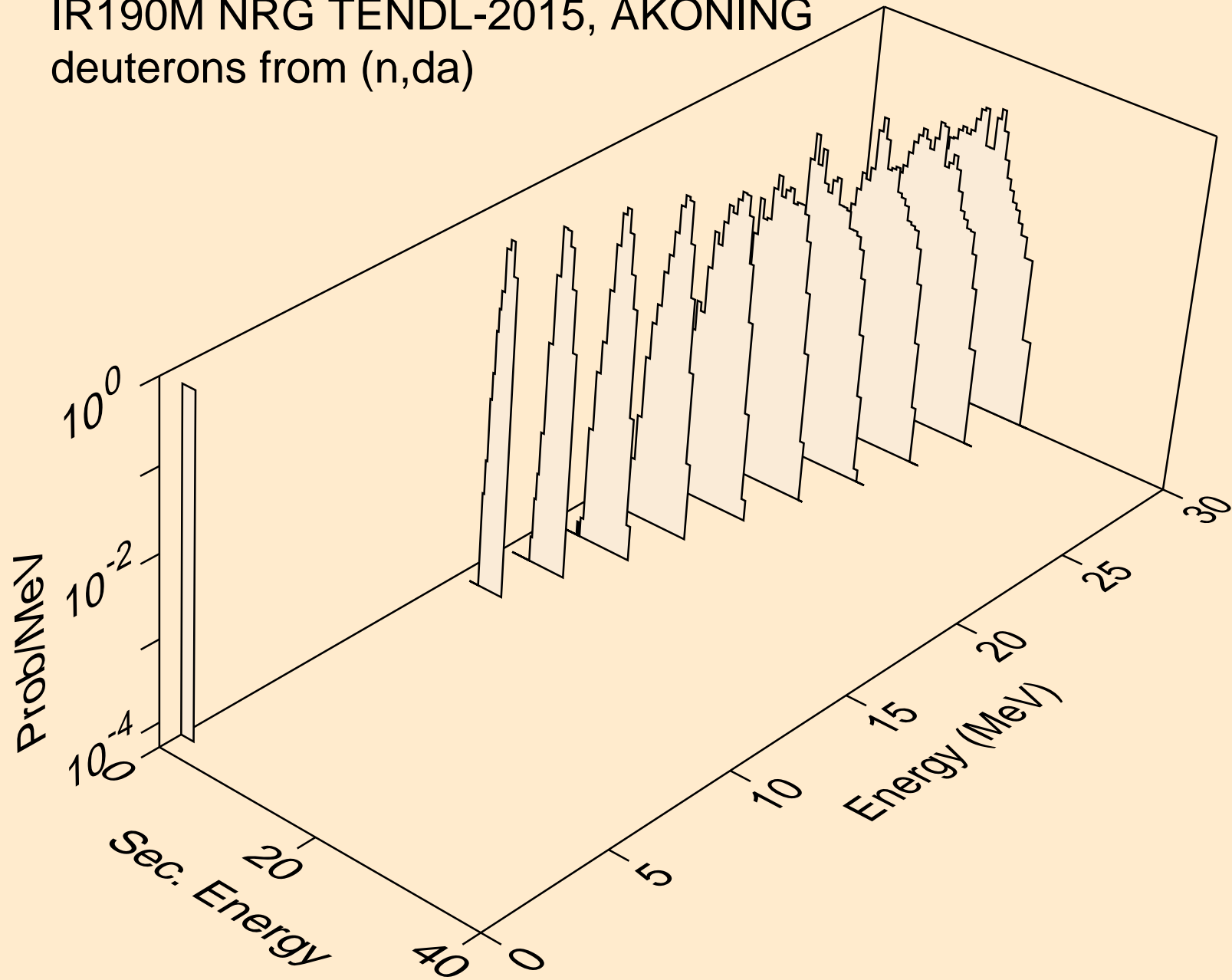
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deuterons from (n,d)



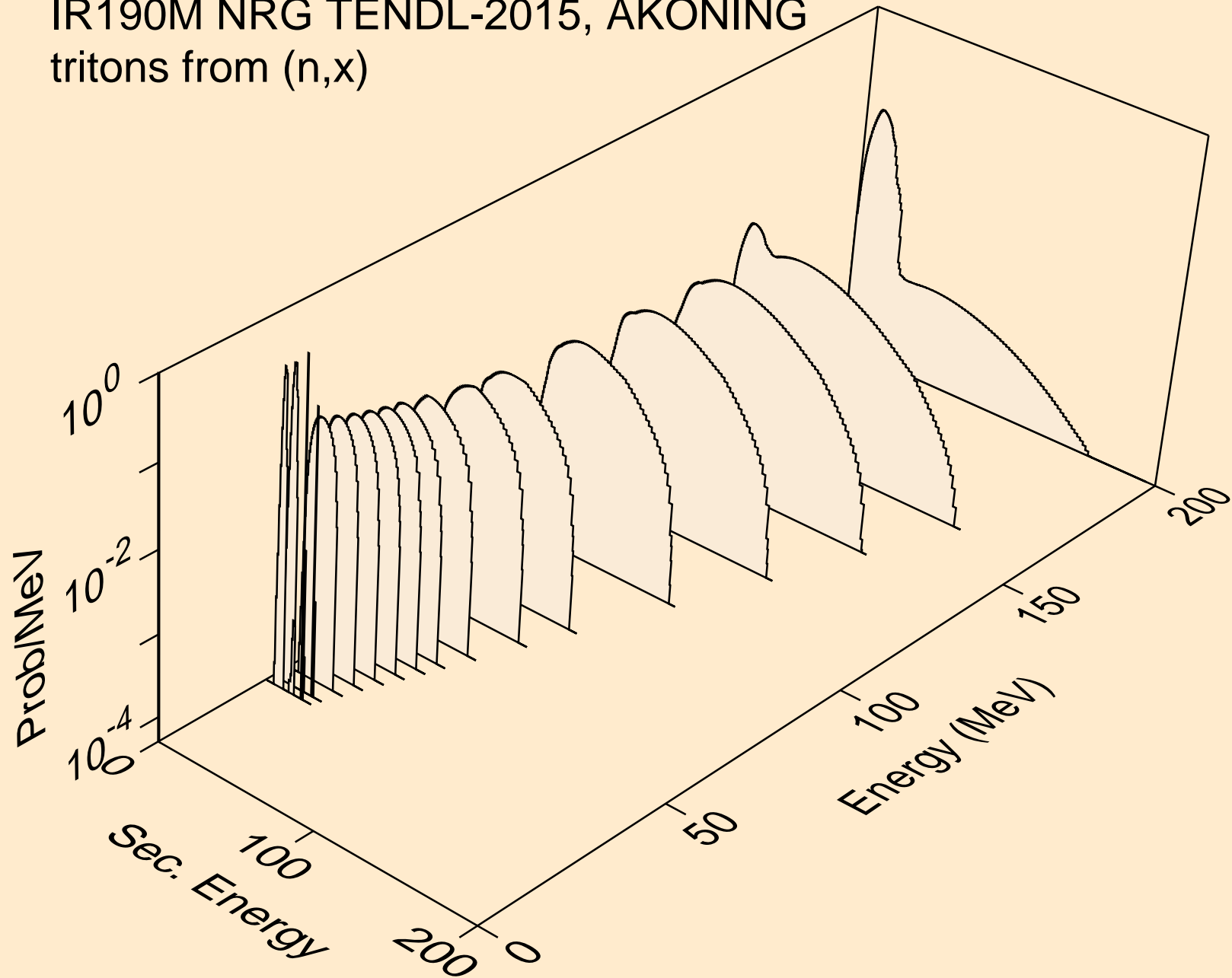
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deuterons from (n,pd)



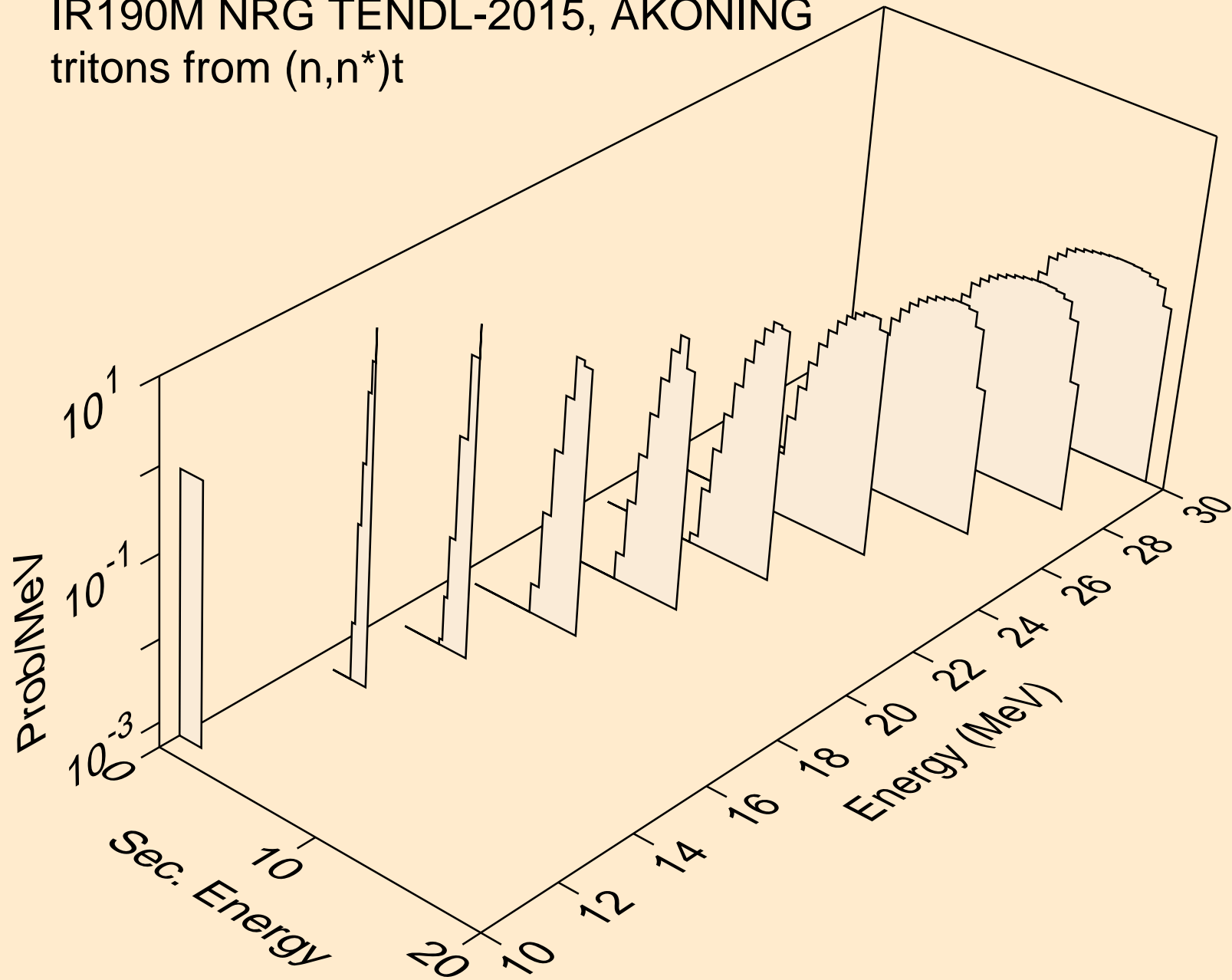
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deuterons from (n,da)



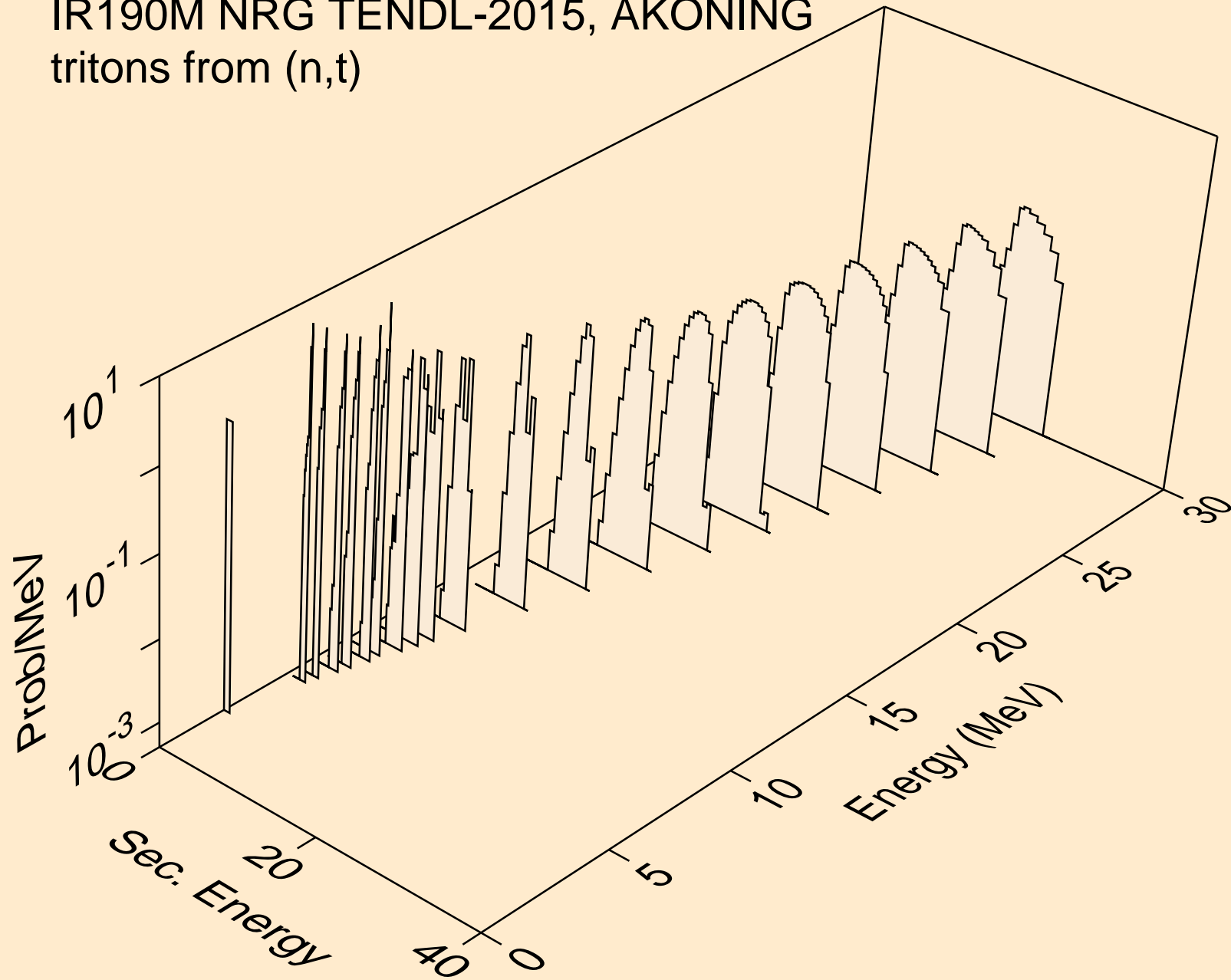
IR190M NRG TENDL-2015, AKONING  
tritons from (n,x)



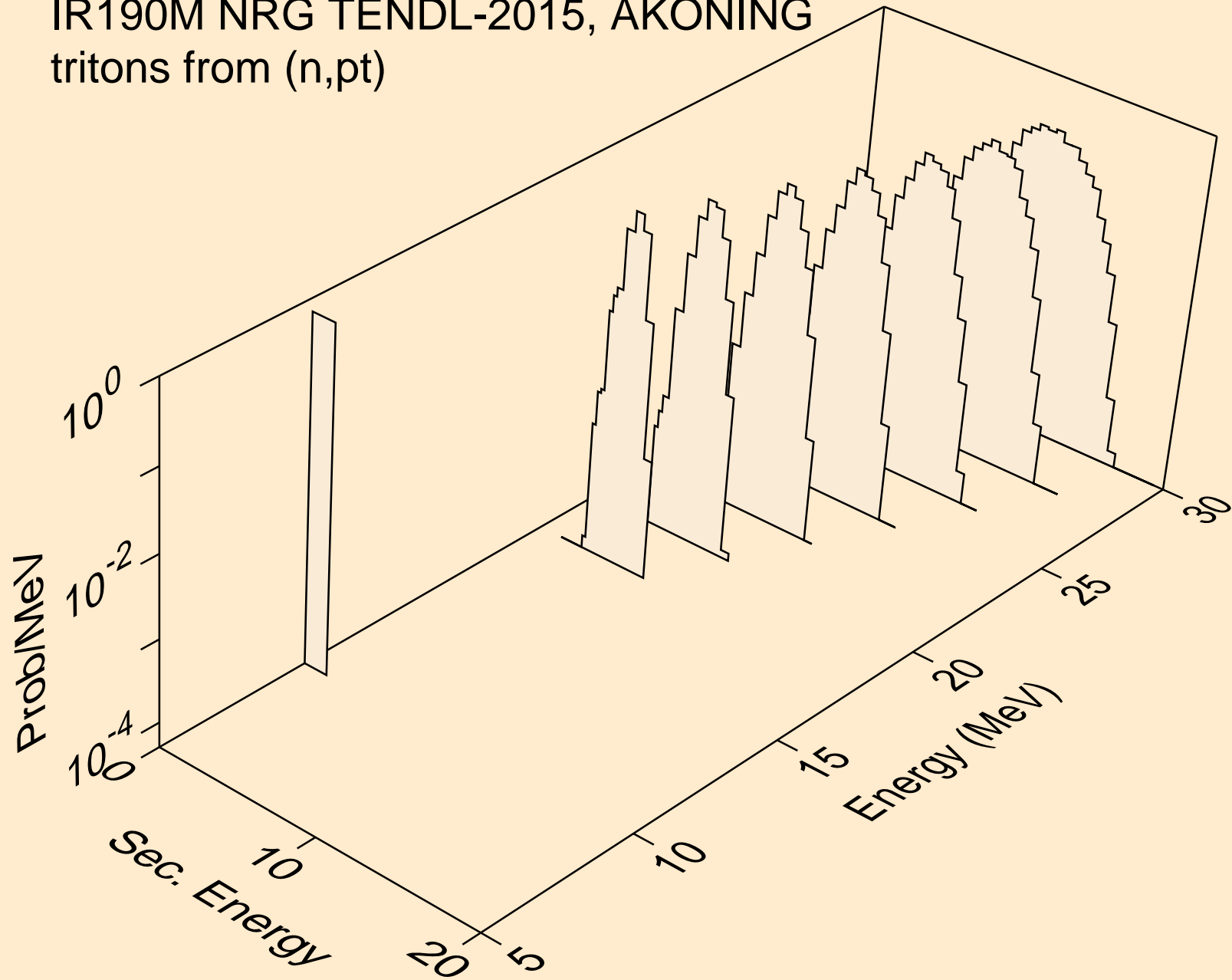
IR190M NRG TENDL-2015, AKONING  
tritons from (n,n\*)t



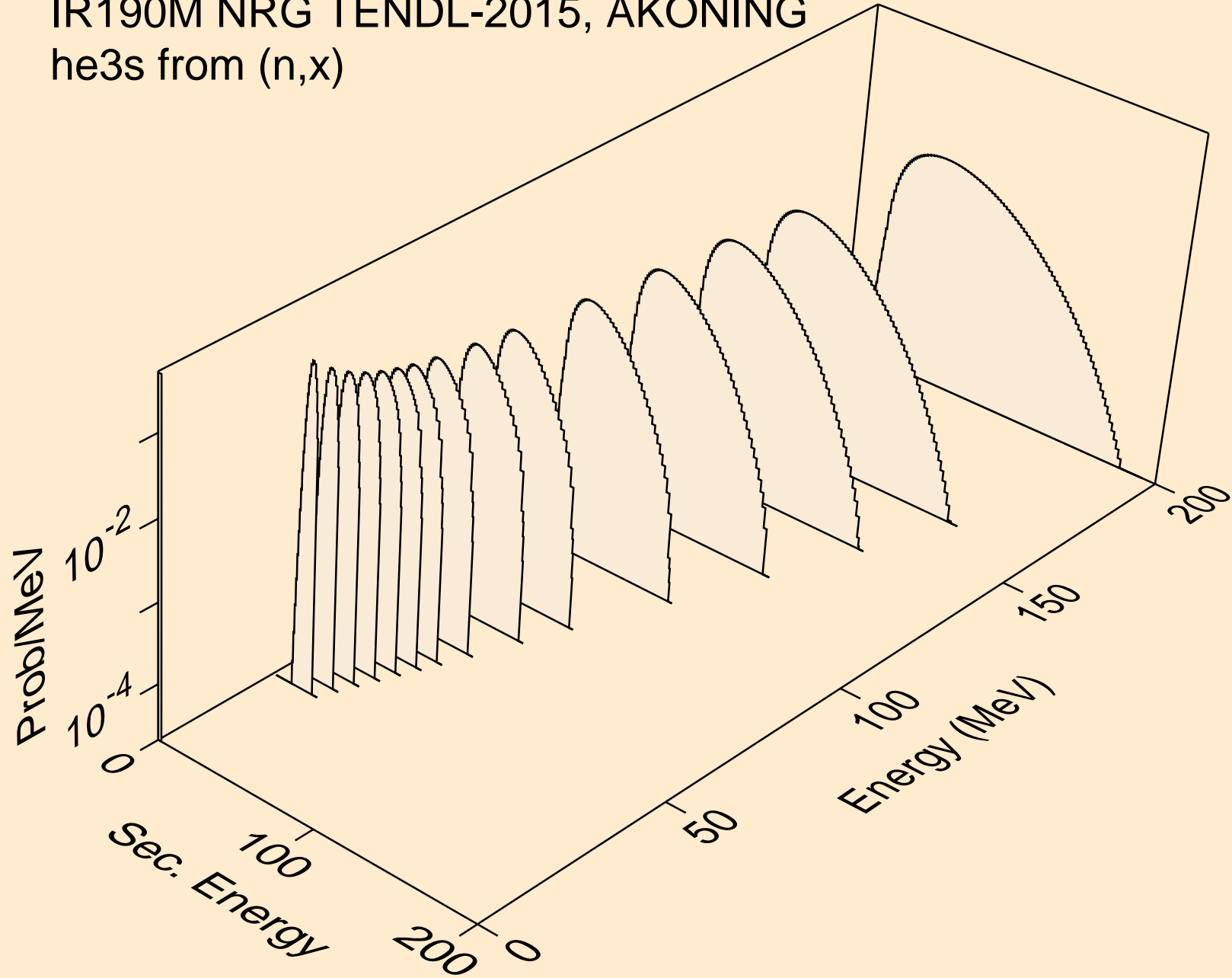
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tritons from (n,t)



IR190M NRG TENDL-2015, AKONING  
tritons from (n,pt)

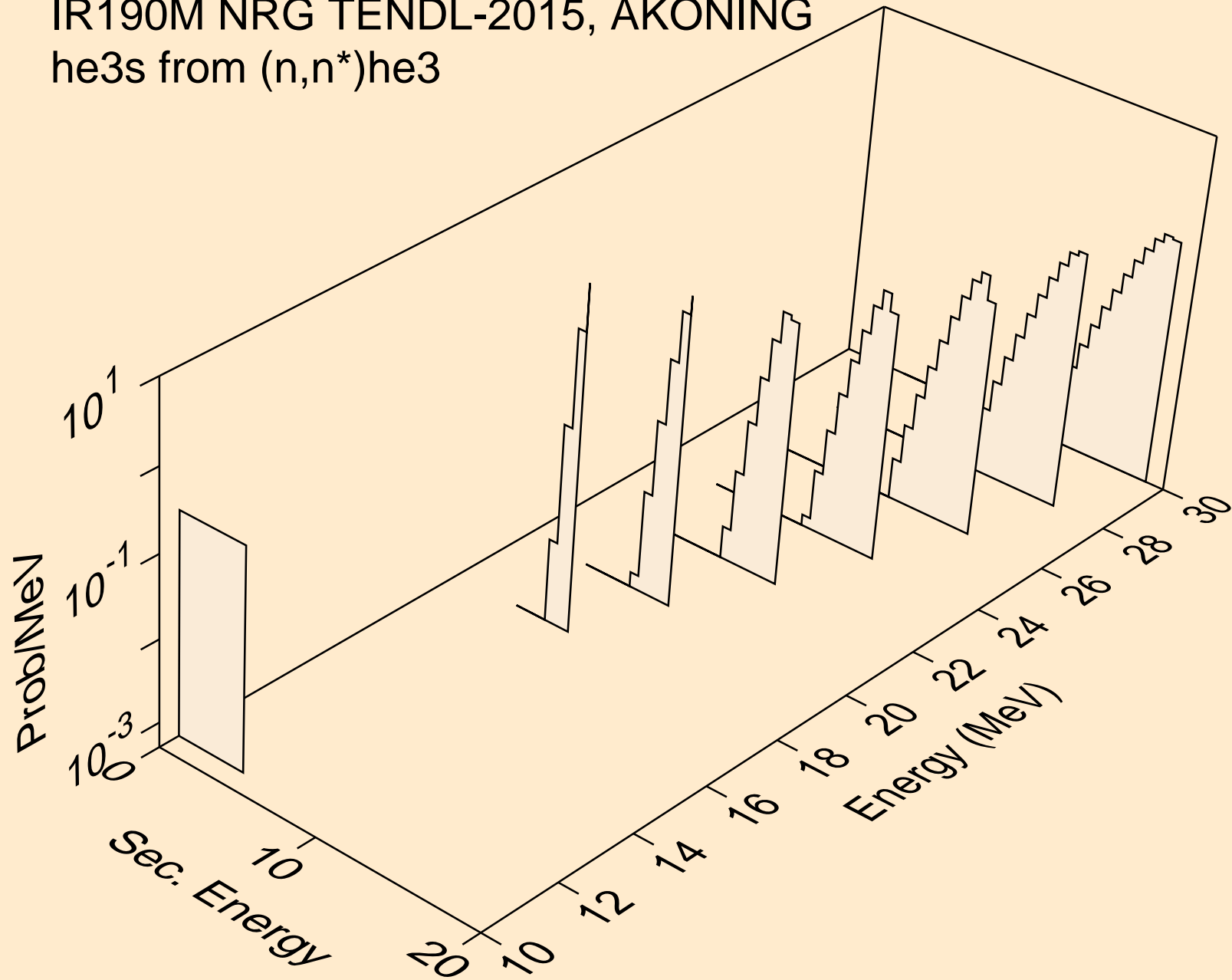


IR190M NRG TENDL-2015, AKONING  
he3s from (n,x)

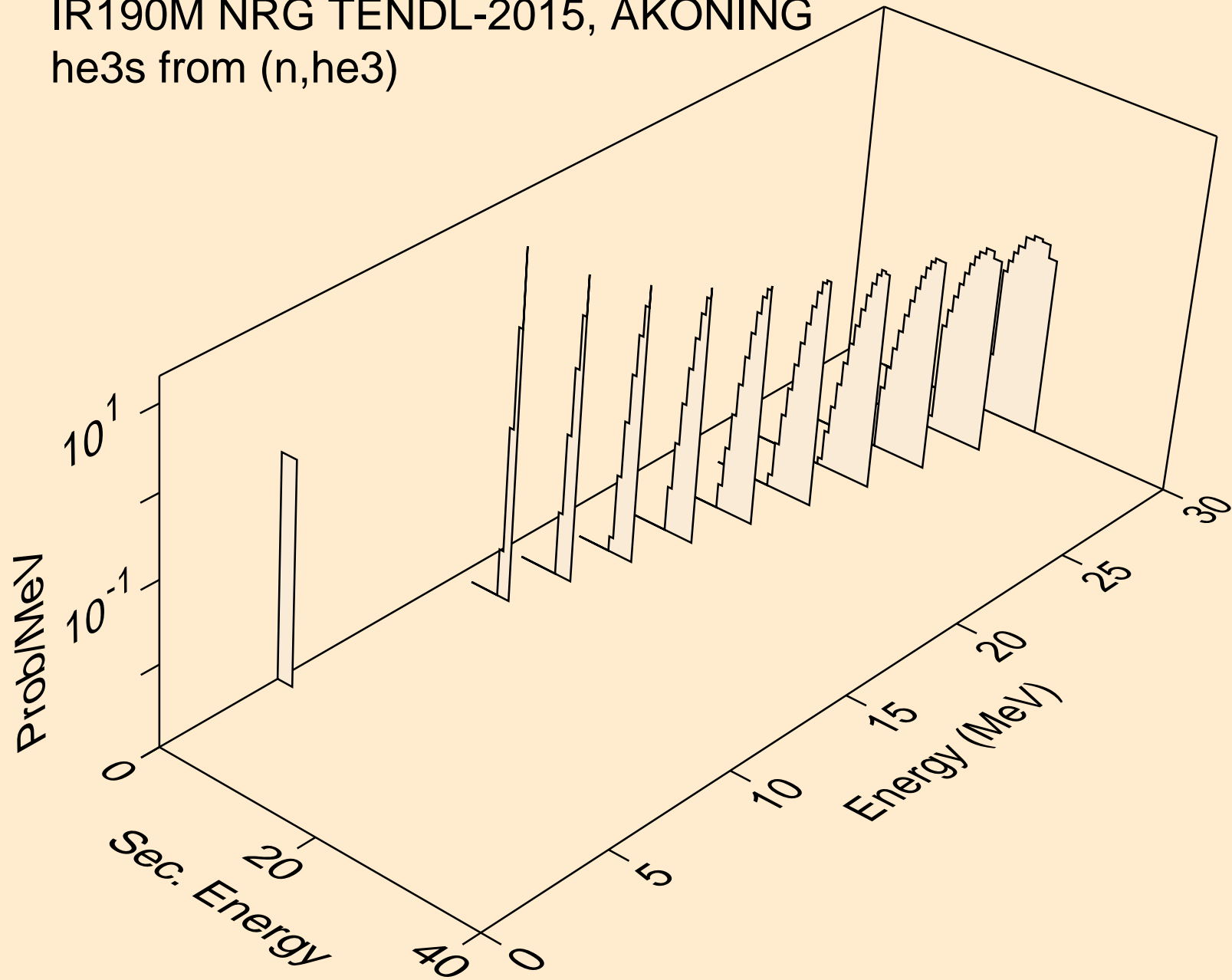




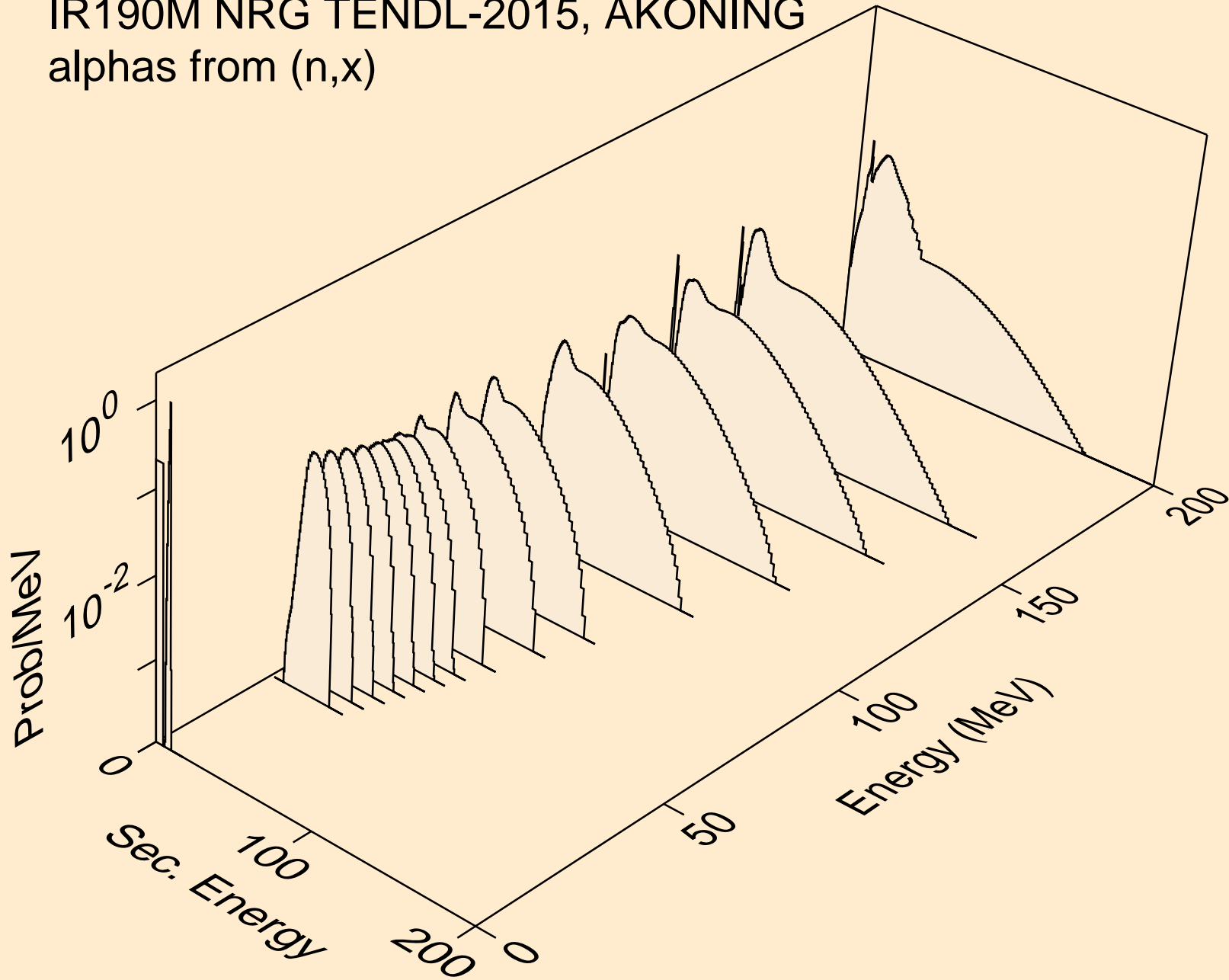
IR190M NRG TENDL-2015, AKONING  
he3s from (n,n\*)he3



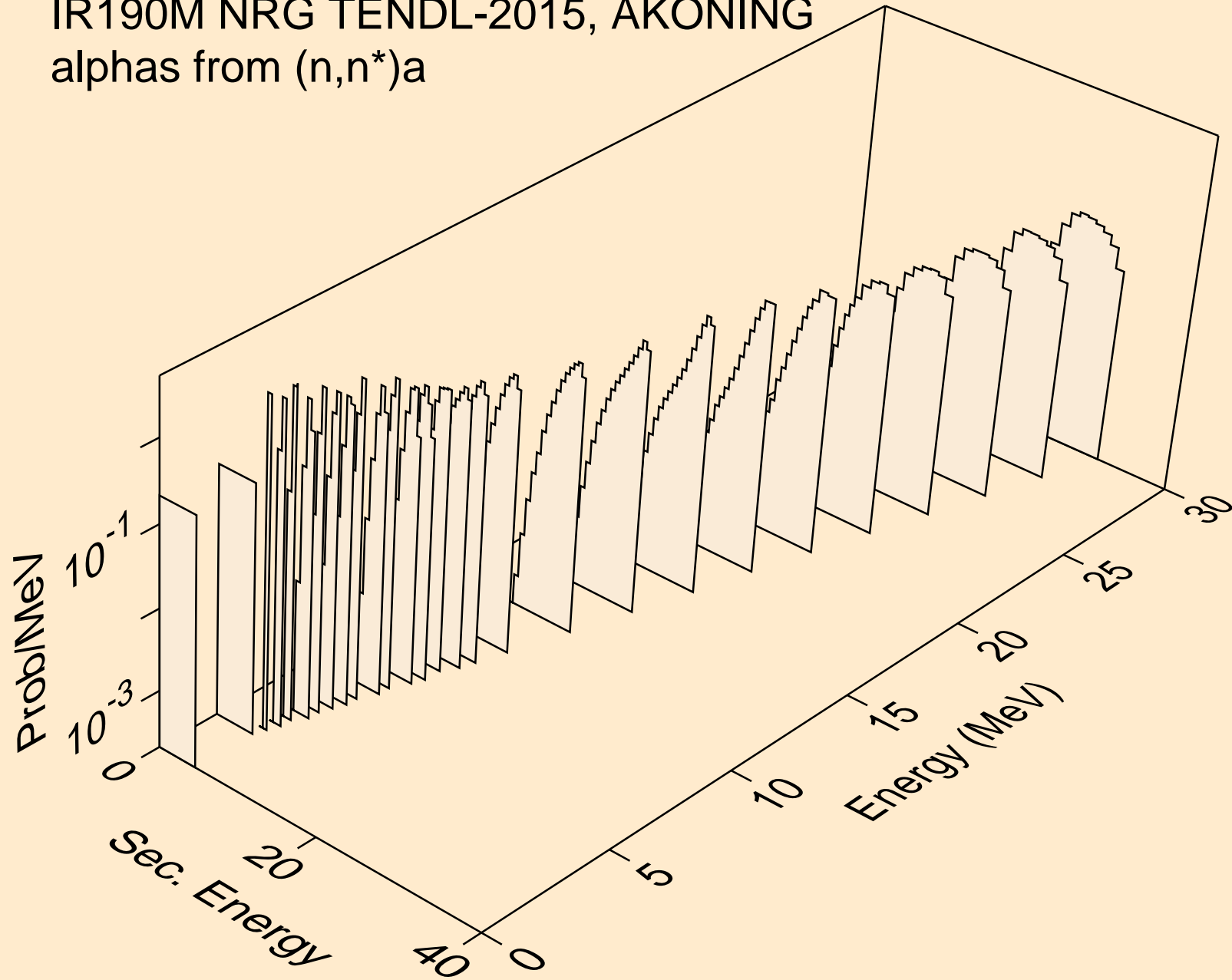
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he3s from (n,he3)



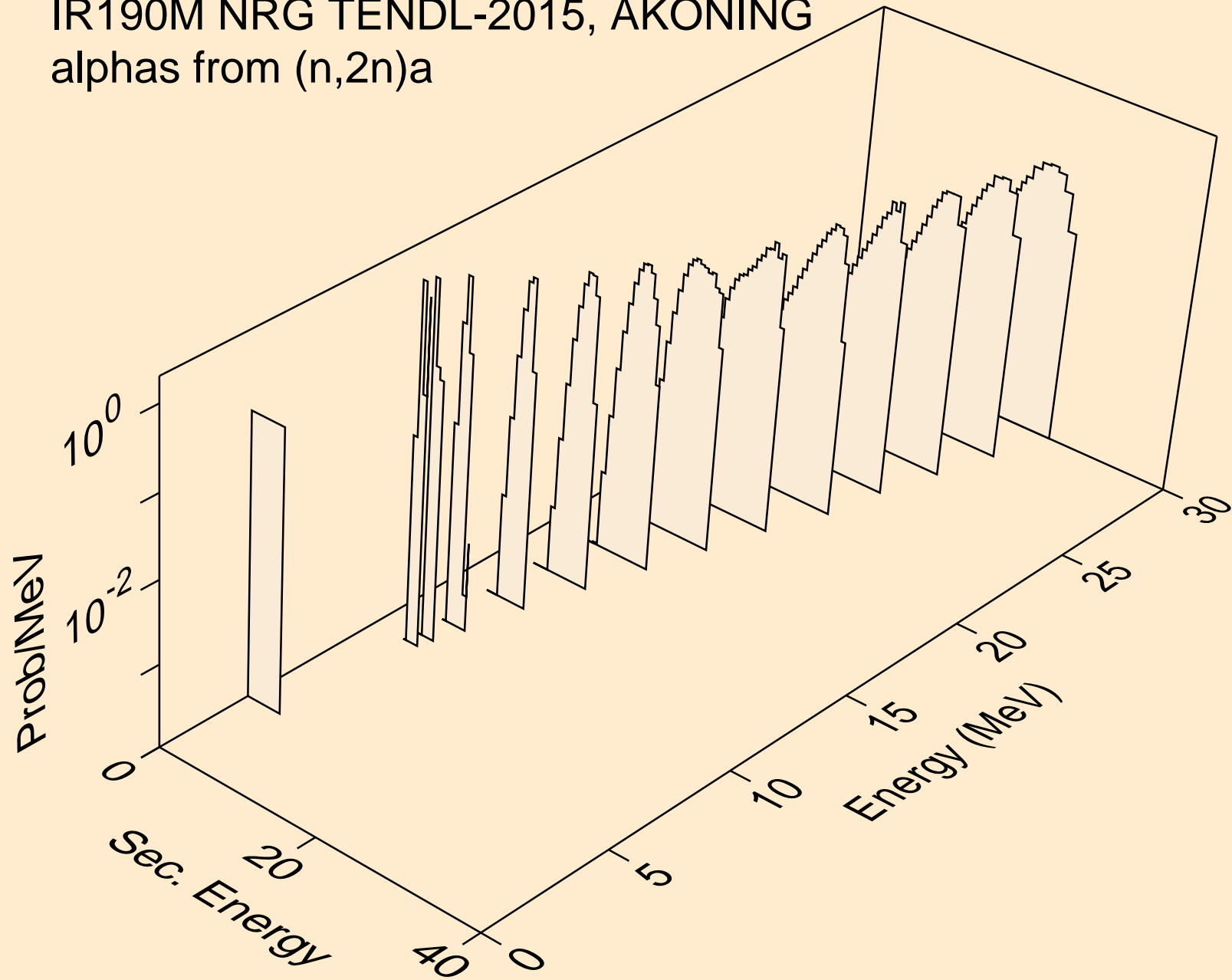
IR190M NRG TENDL-2015, AKONING  
alphas from (n,x)



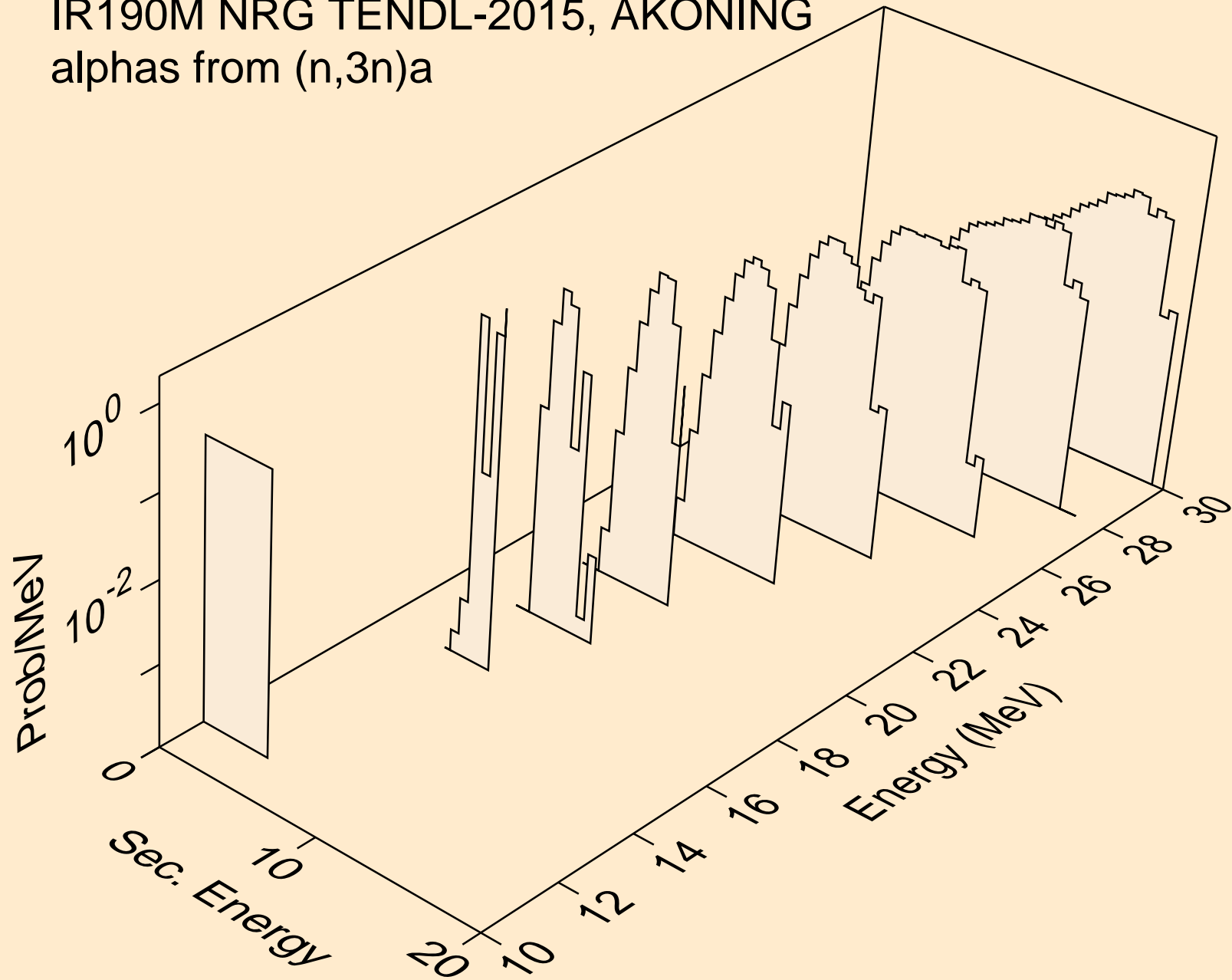
IR190M NRG TENDL-2015, AKONING  
alphas from (n,n\*)a



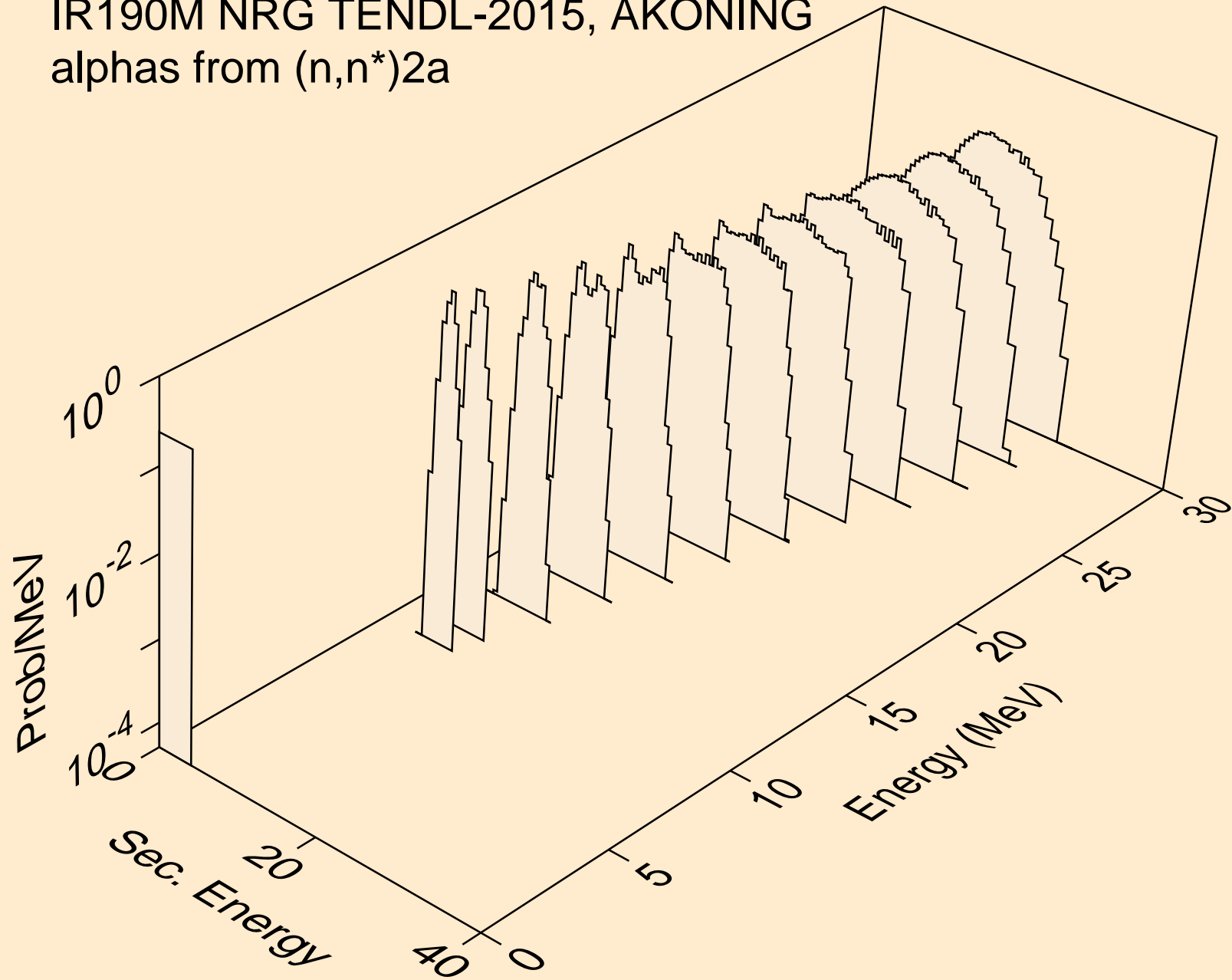
IR190M NRG TENDL-2015, AKONING  
alphas from (n,2n)a



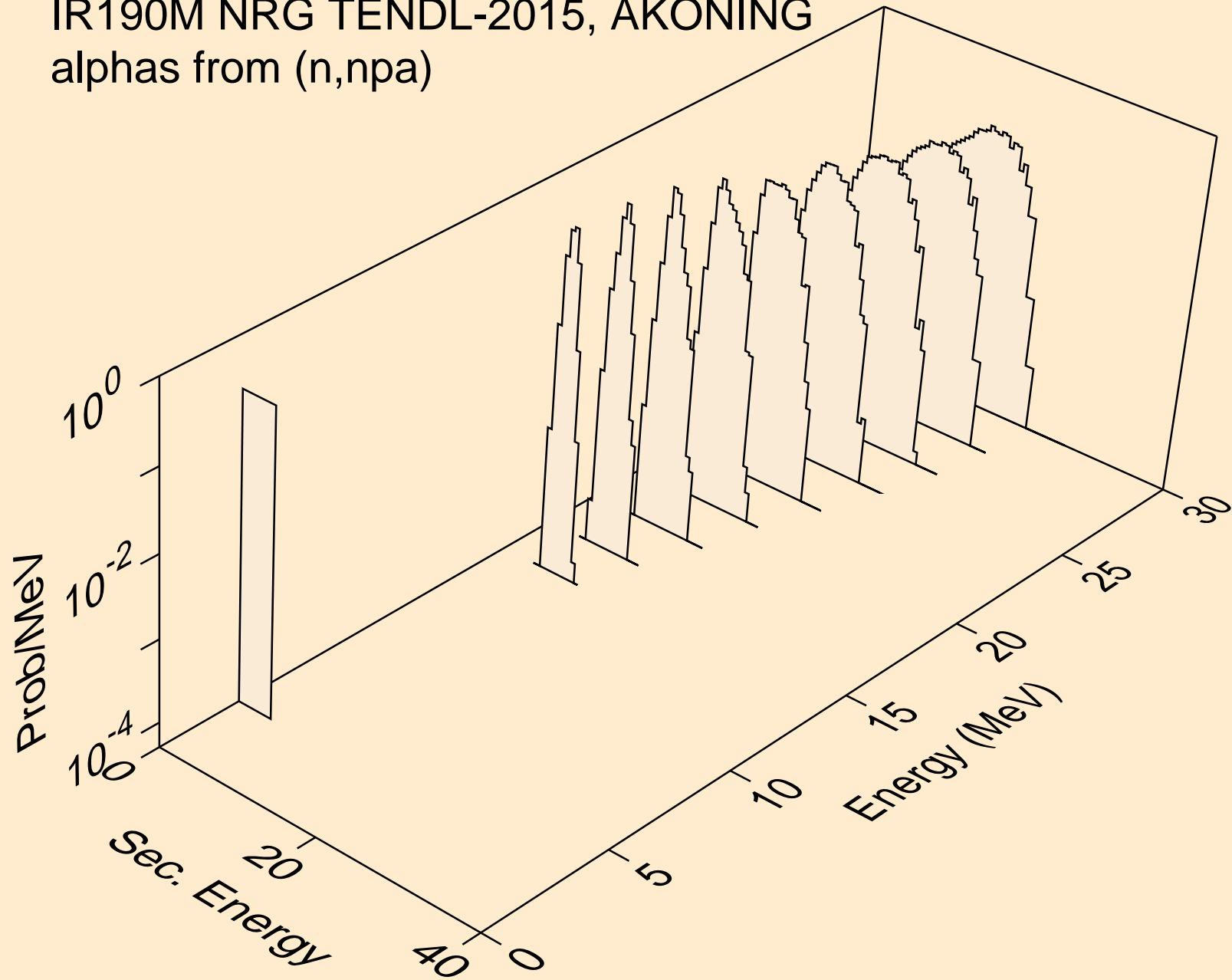
IR190M NRG TENDL-2015, AKONING  
alphas from (n,3n)a



IR190M NRG TENDL-2015, AKONING  
alphas from (n,n\*)2a

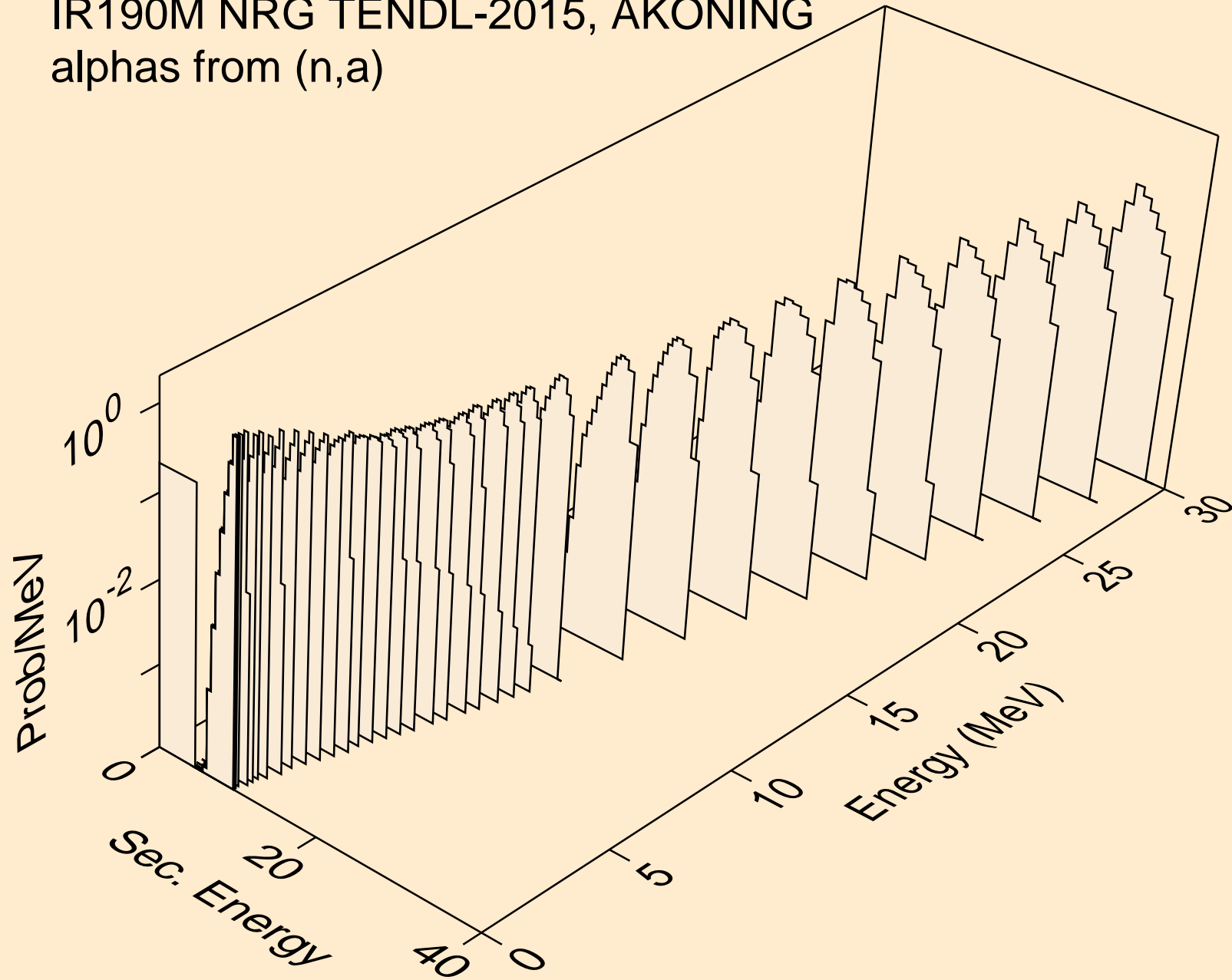


IR190M NRG TENDL-2015, AKONING  
alphas from (n,npa)

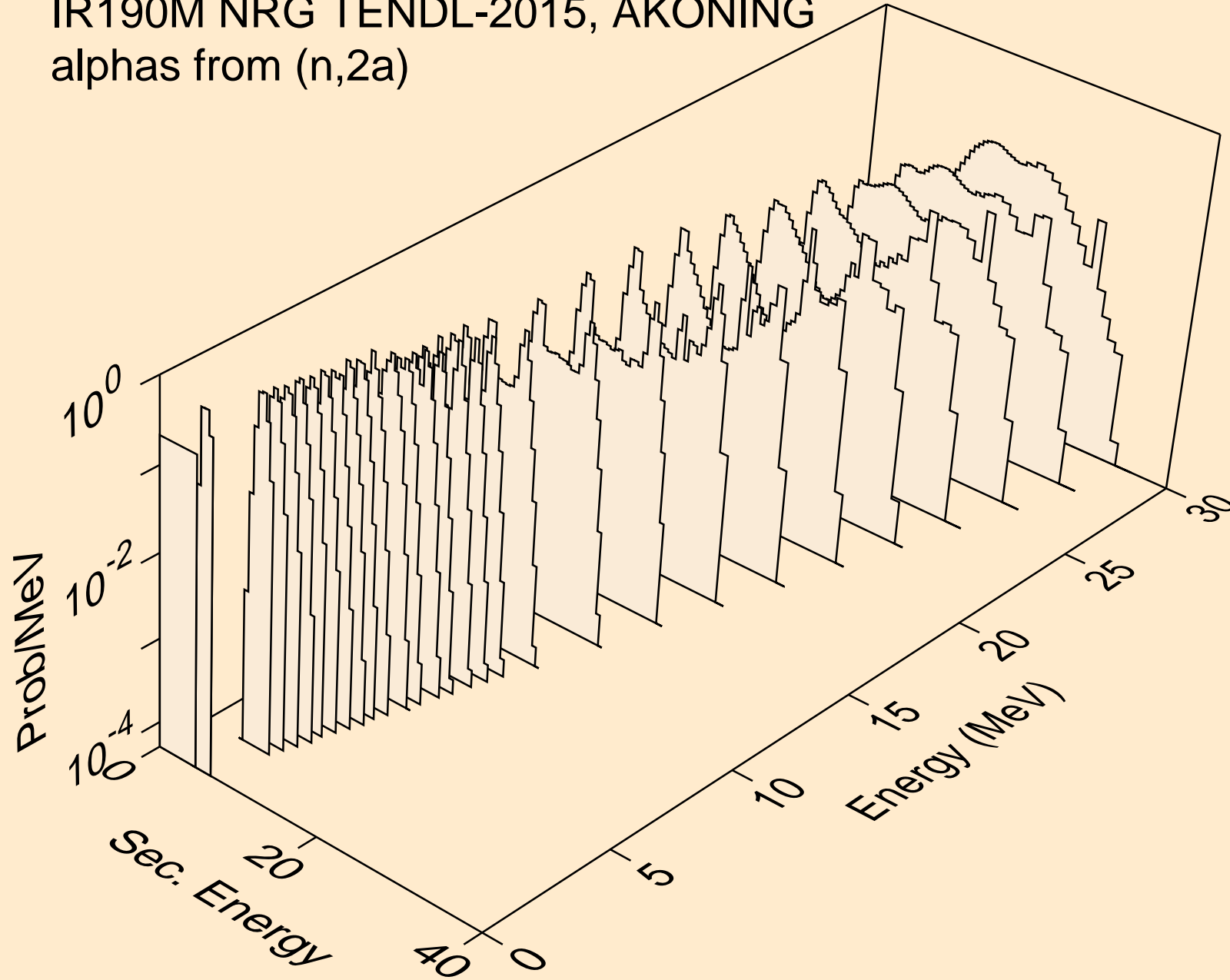




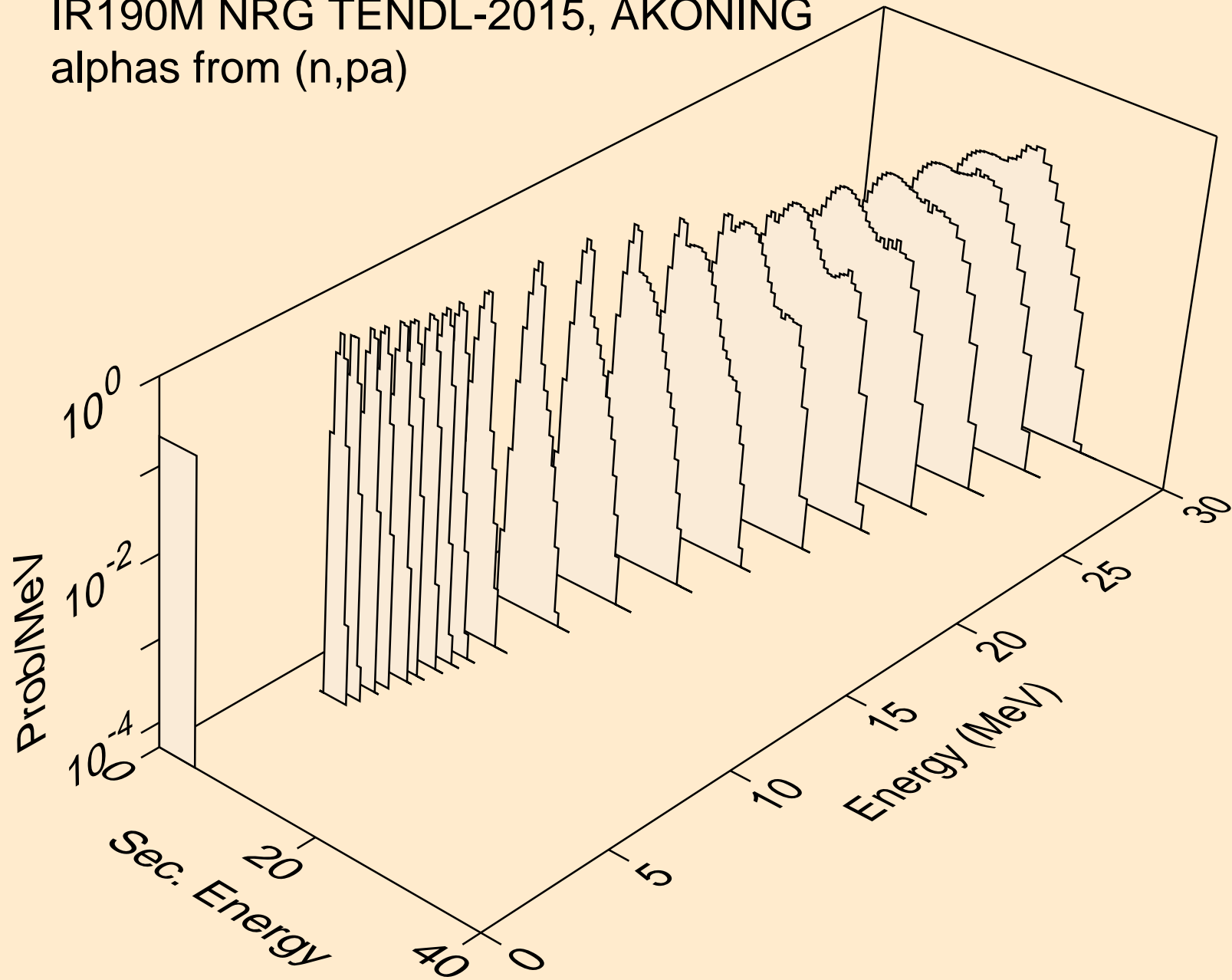
IR190M NRG TENDL-2015, AKONING  
alphas from (n,a)



IR190M NRG TENDL-2015, AKONING  
alphas from (n,2a)



IR190M NRG TENDL-2015, AKONING  
alphas from (n,pa)



IR190M NRG TENDL-2015, AKONING  
alphas from (n,da)

