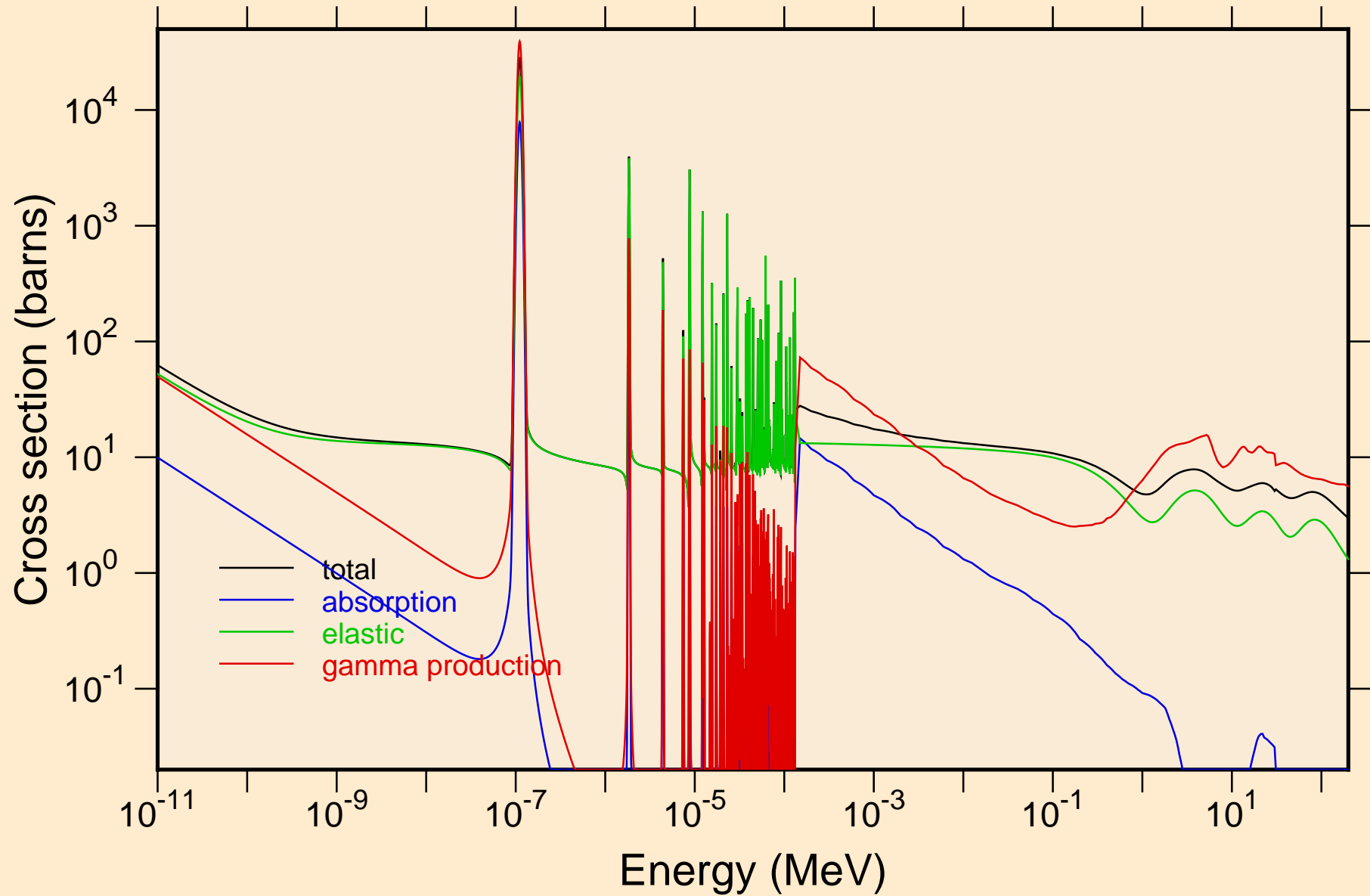
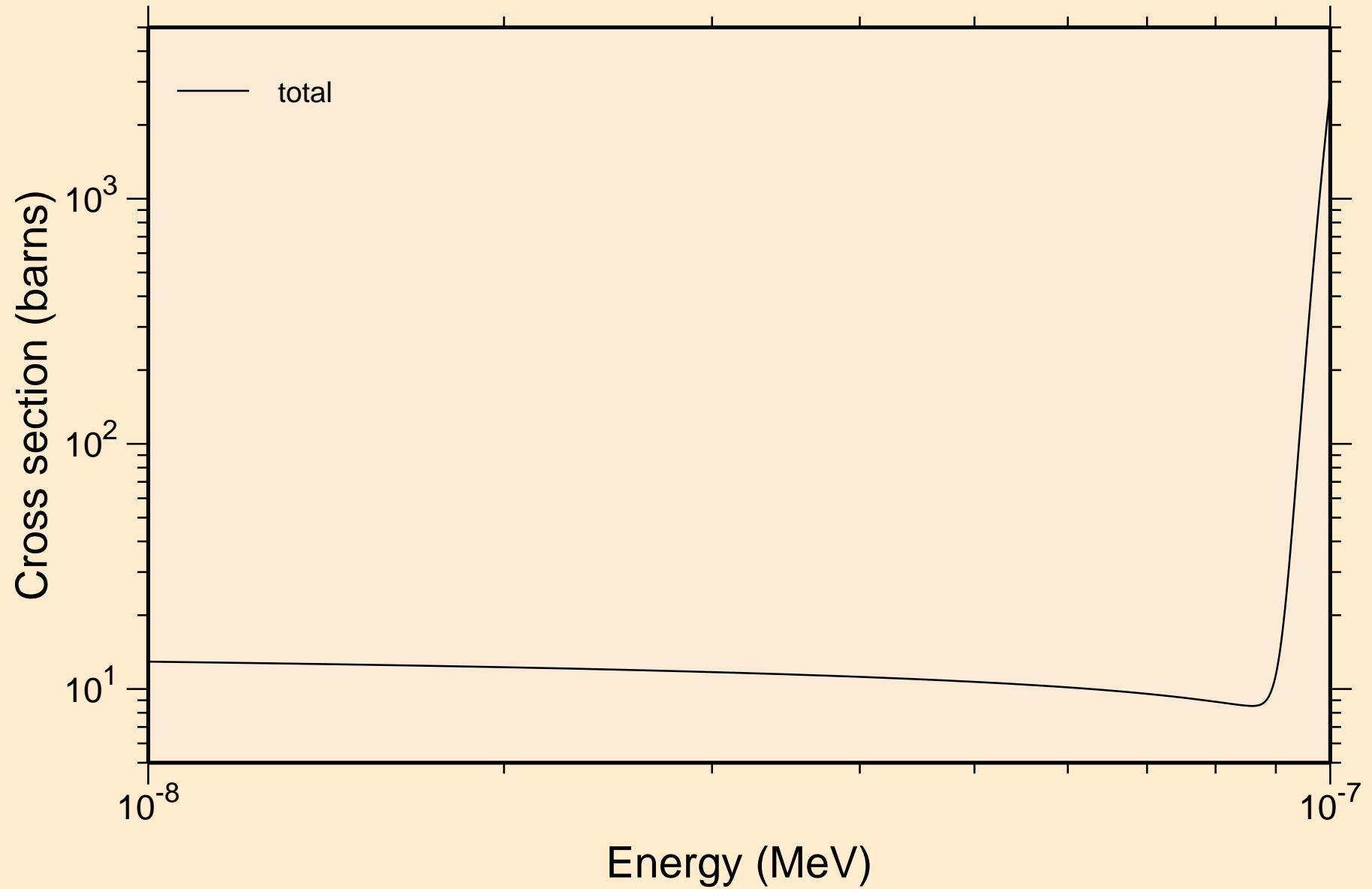


# N-FR220 NRG TENDL-2017, AKONING

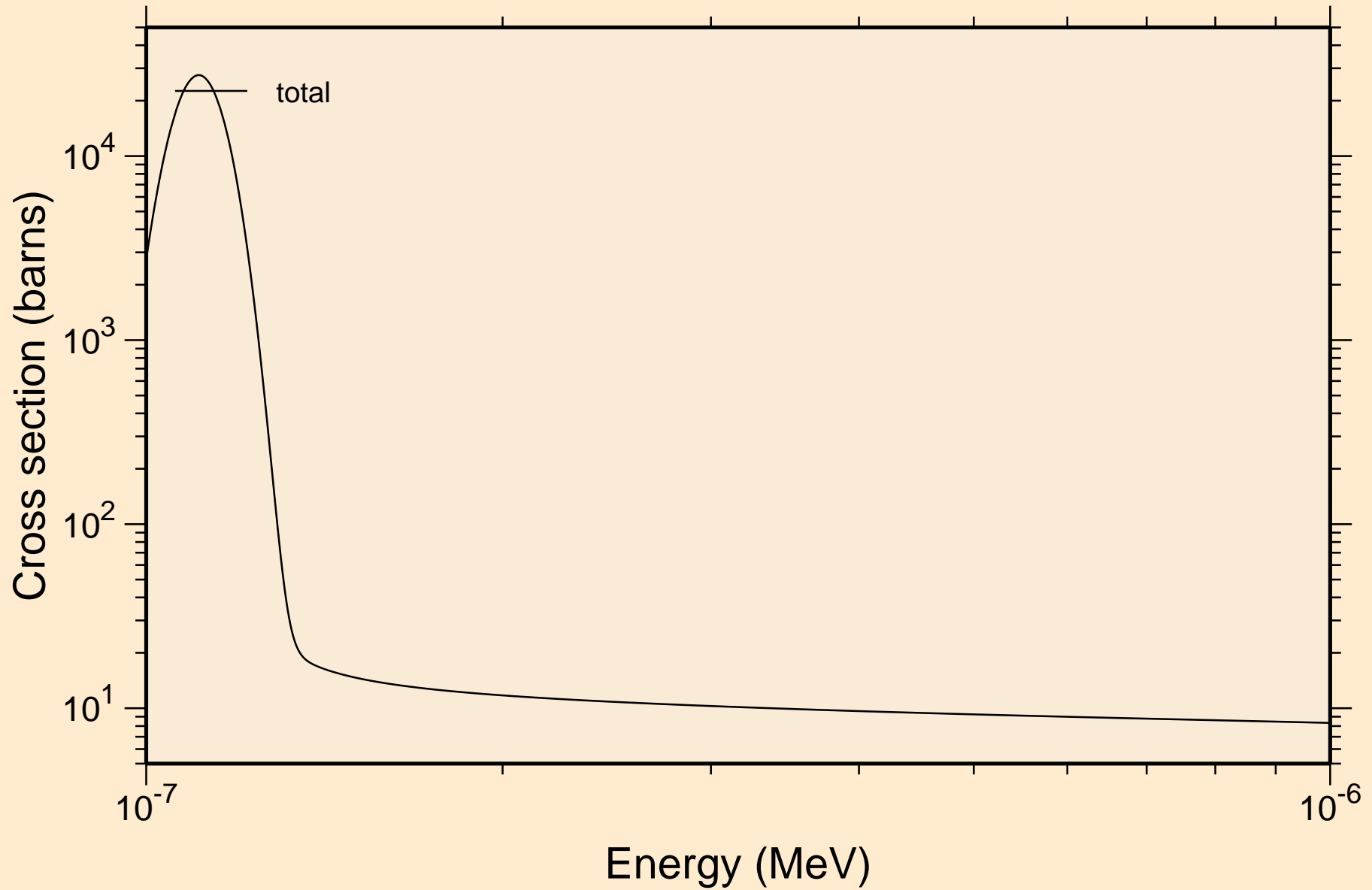
## Principal cross sections



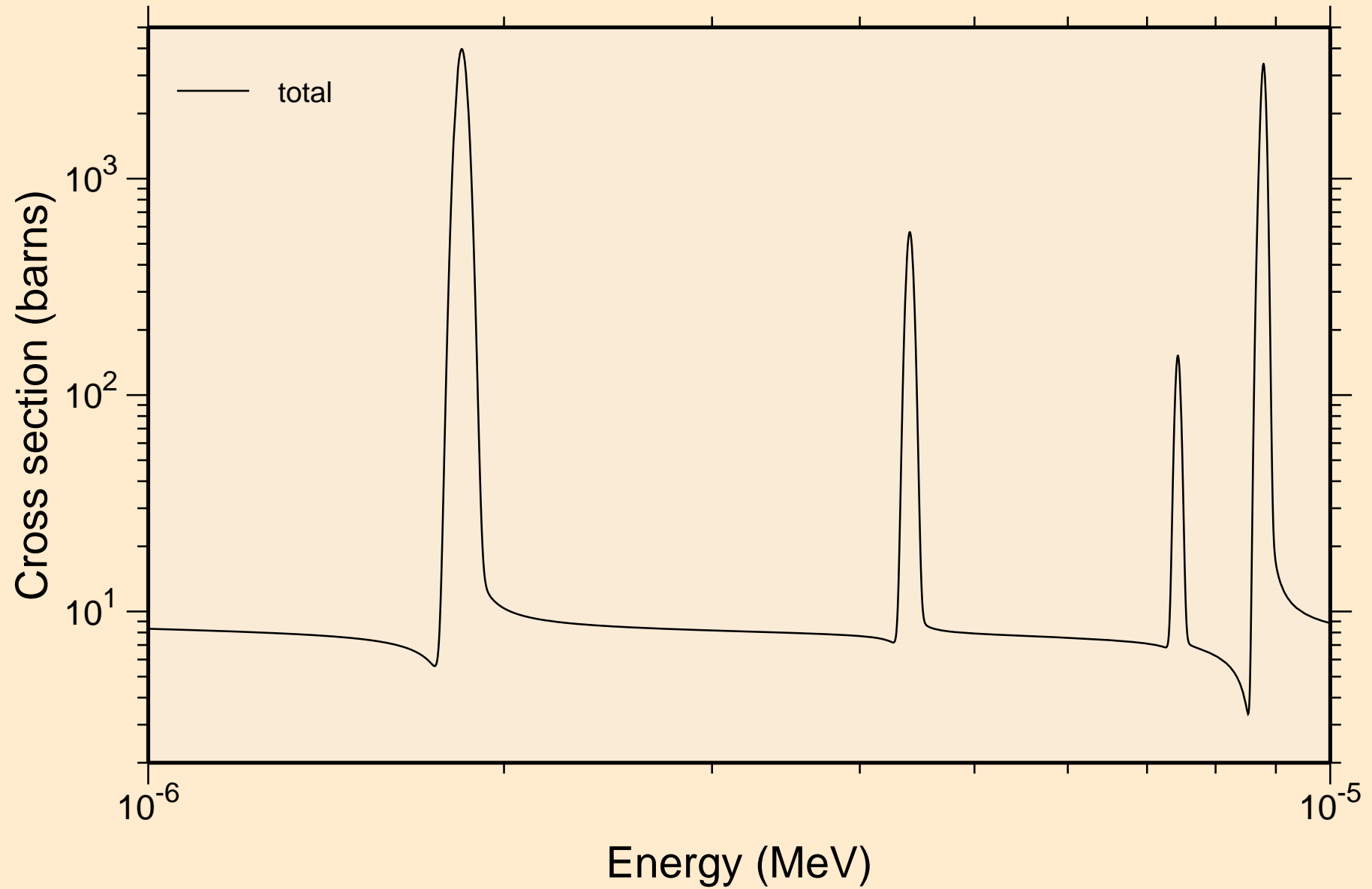
N-FR220 NRG TENDL-2017, AKONING  
resonance total cross section



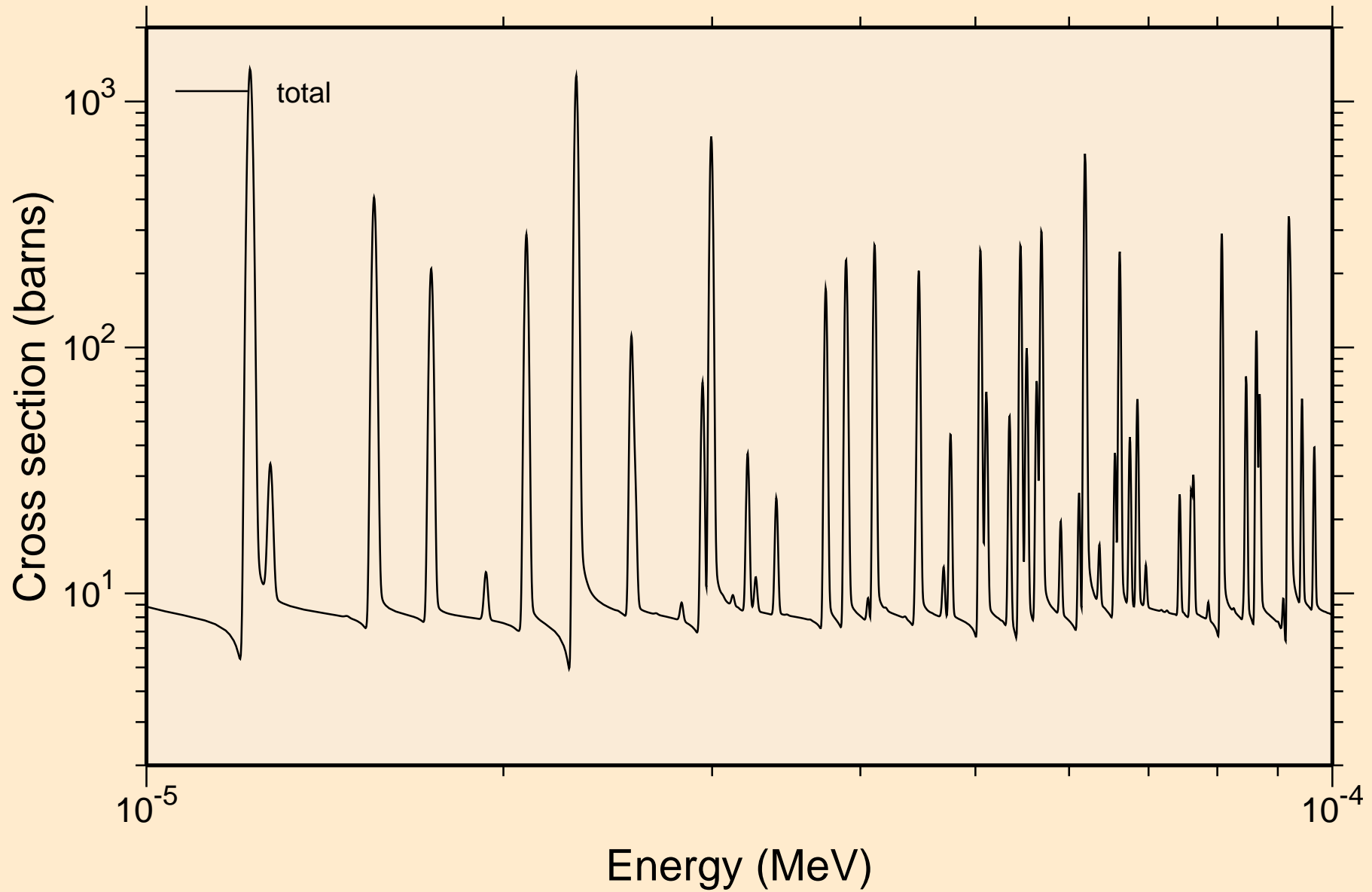
N-FR220 NRG TENDL-2017, AKONING  
resonance total cross section



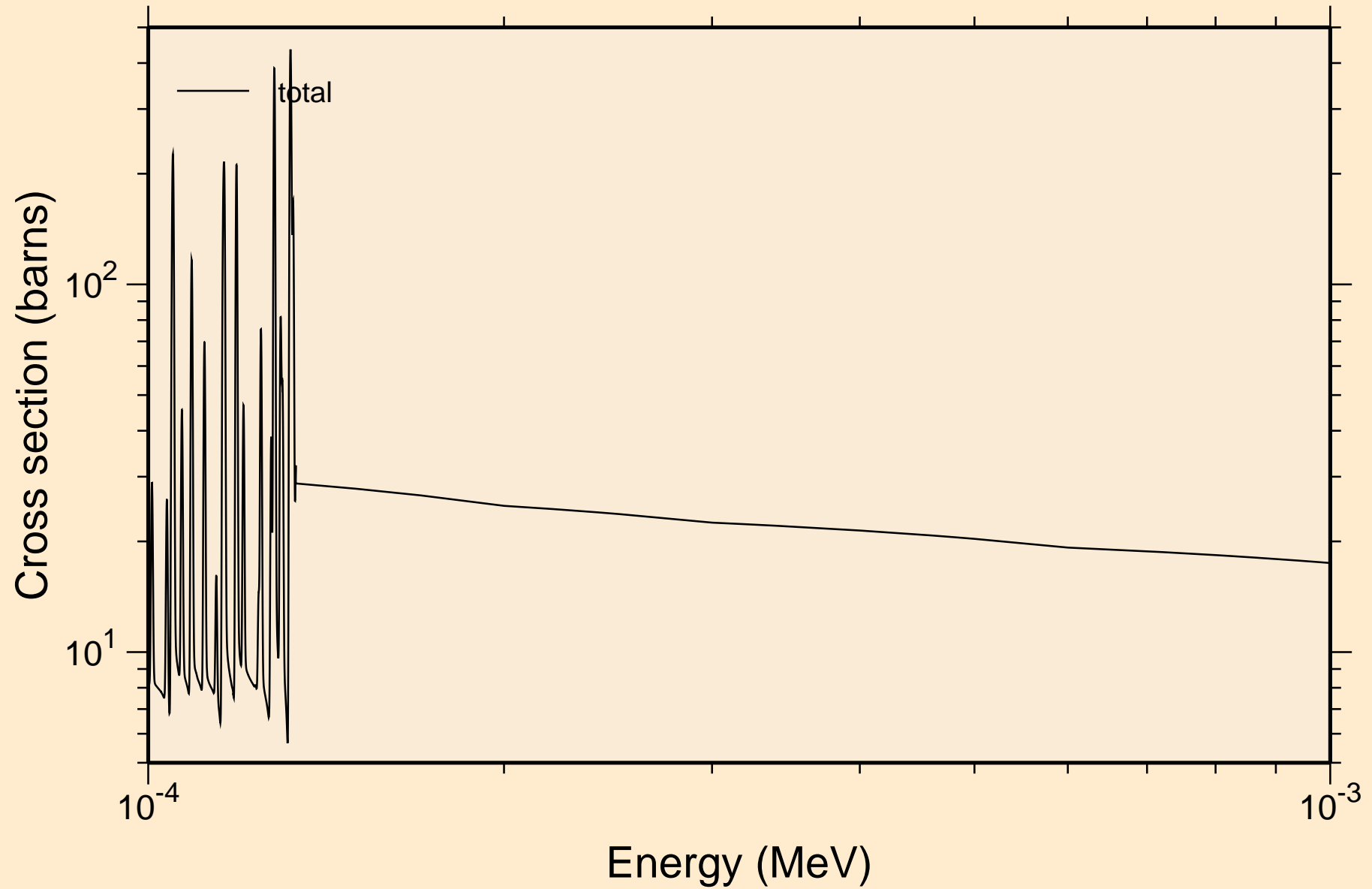
N-FR220 NRG TENDL-2017, AKONING  
resonance total cross section



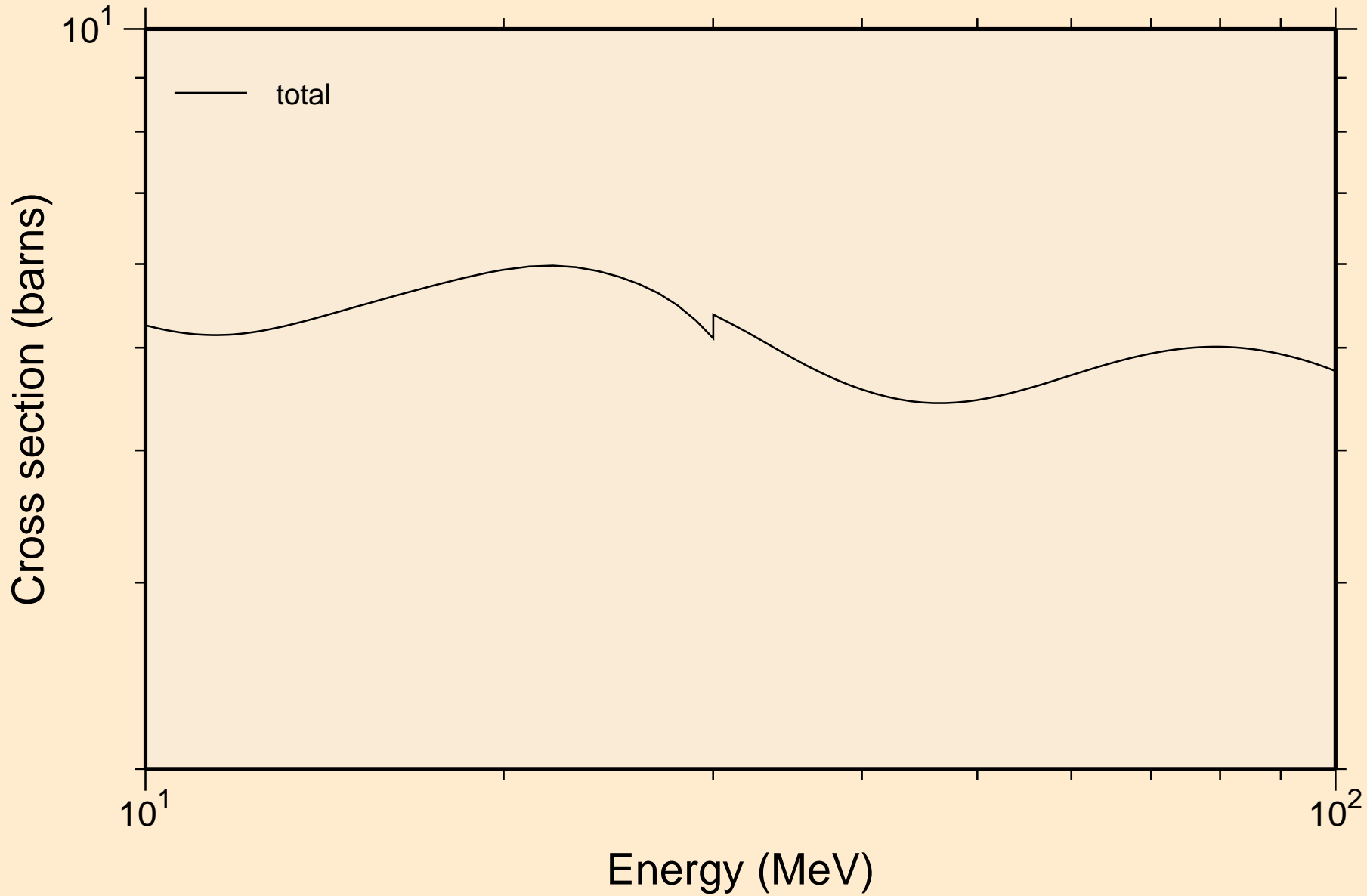
N-FR220 NRG TENDL-2017, AKONING  
resonance total cross section



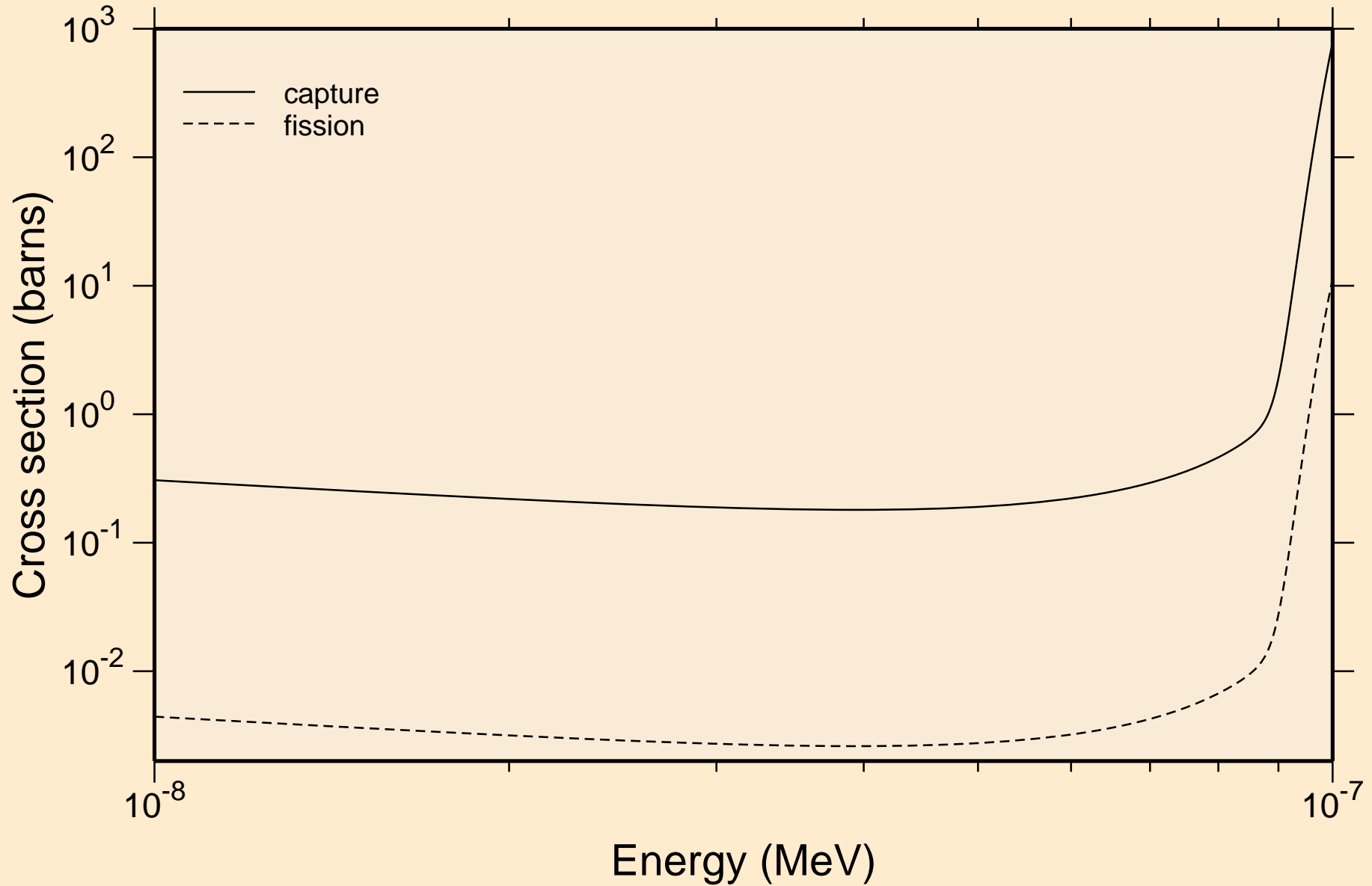
N-FR220 NRG TENDL-2017, AKONING  
resonance total cross section



N-FR220 NRG TENDL-2017, AKONING  
resonance total cross section

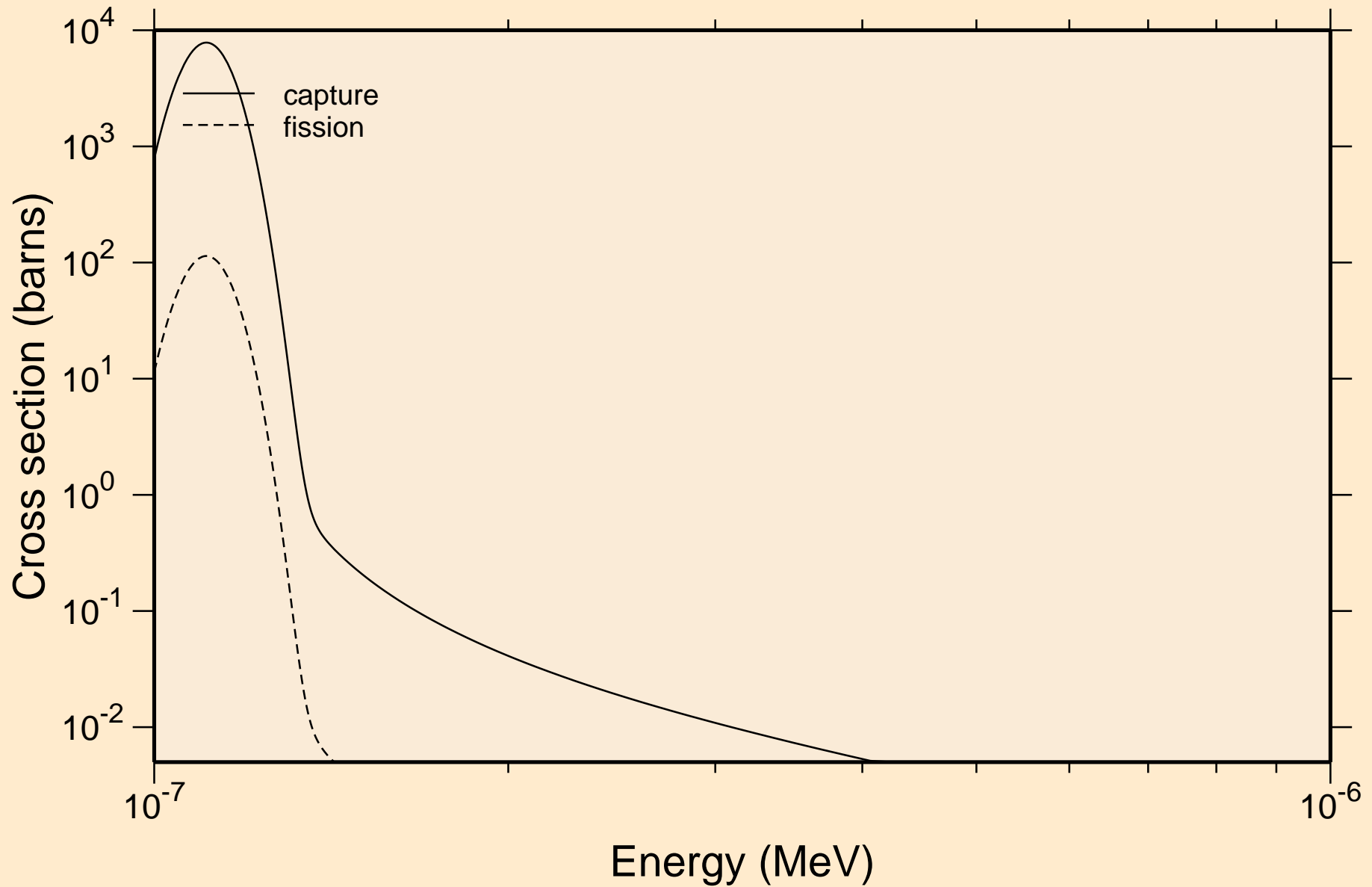


N-FR220 NRG TENDL-2017, AKONING  
resonance absorption cross sections

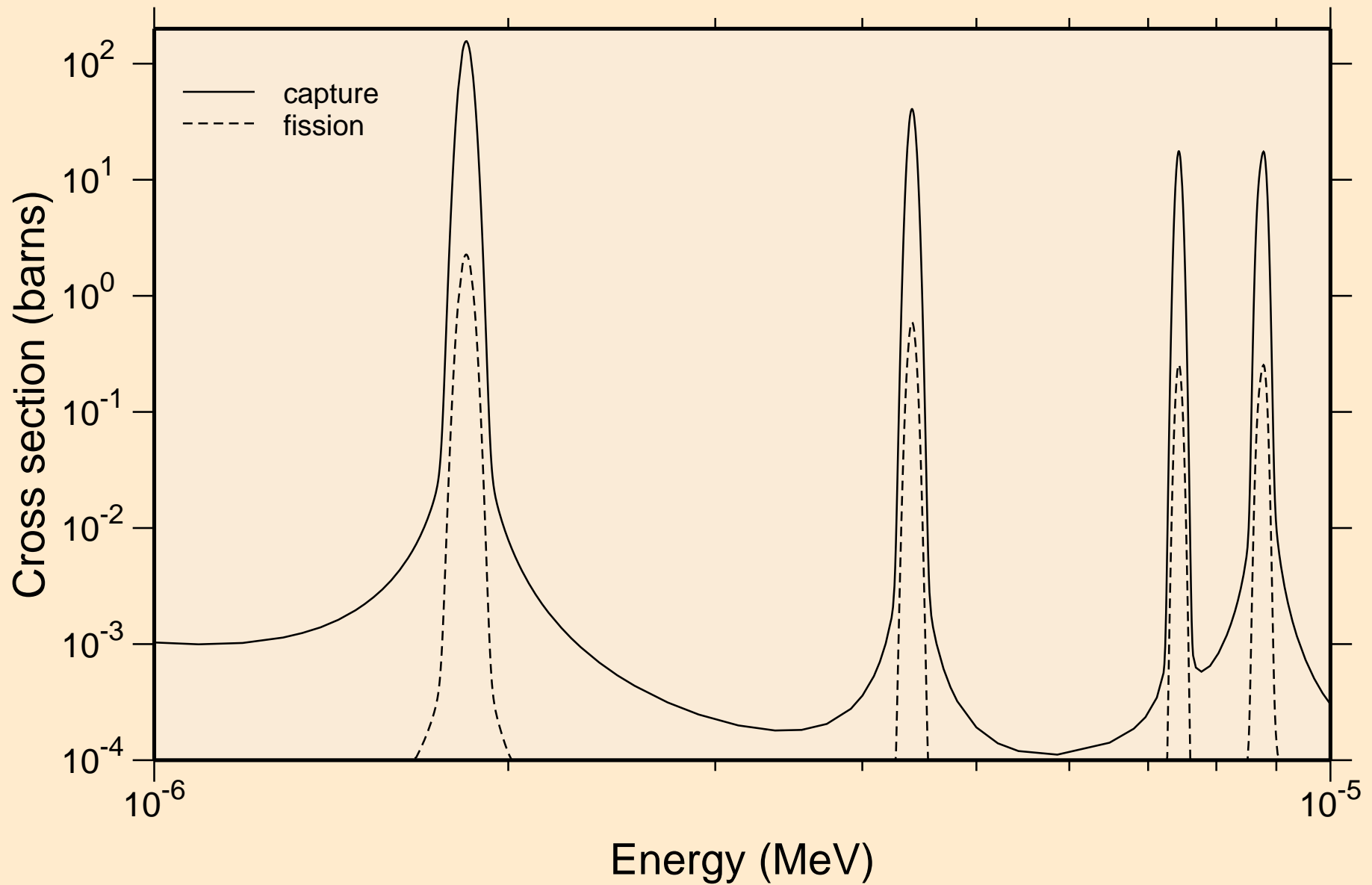




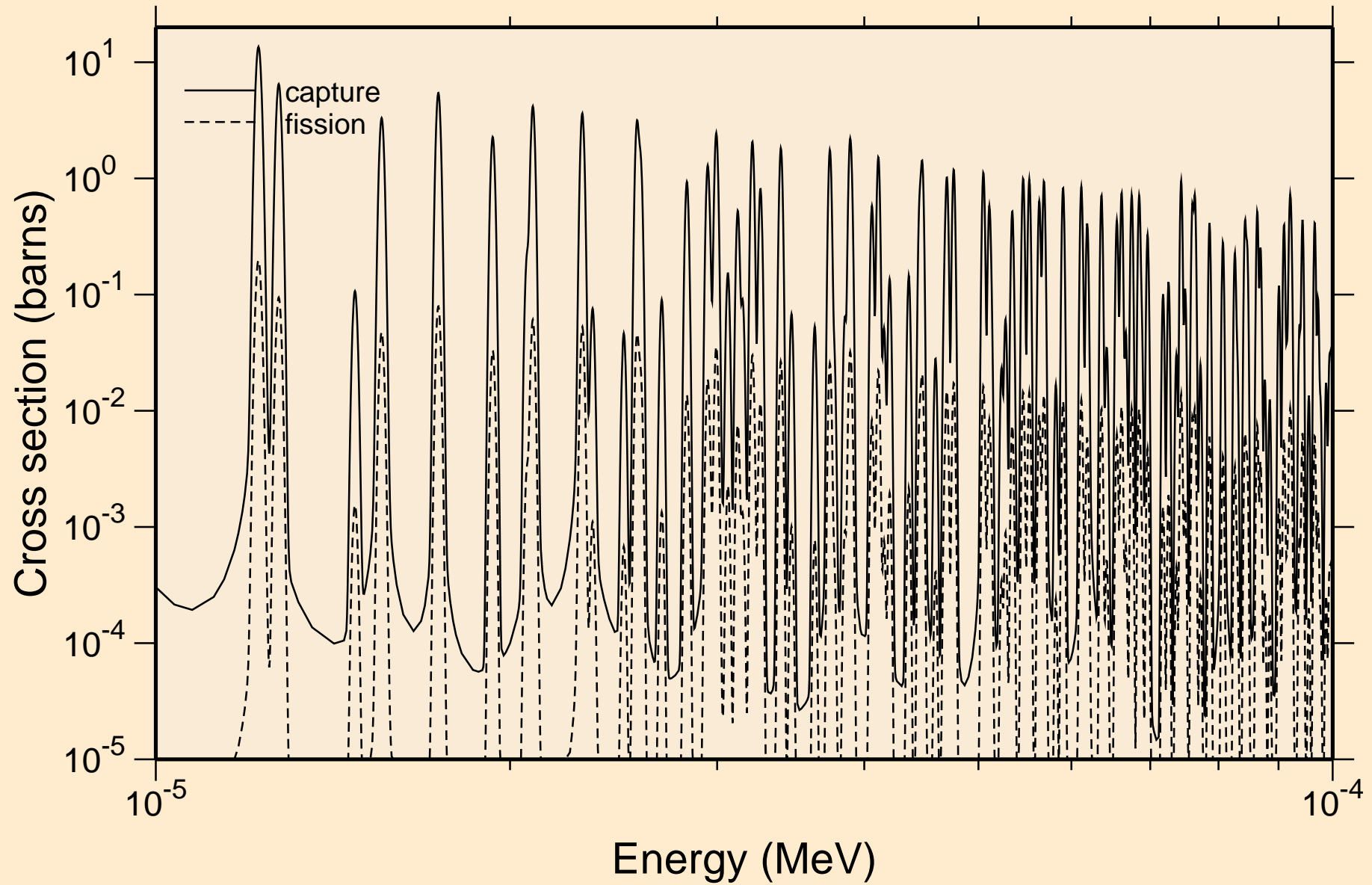
N-FR220 NRG TENDL-2017, AKONING  
resonance absorption cross sections



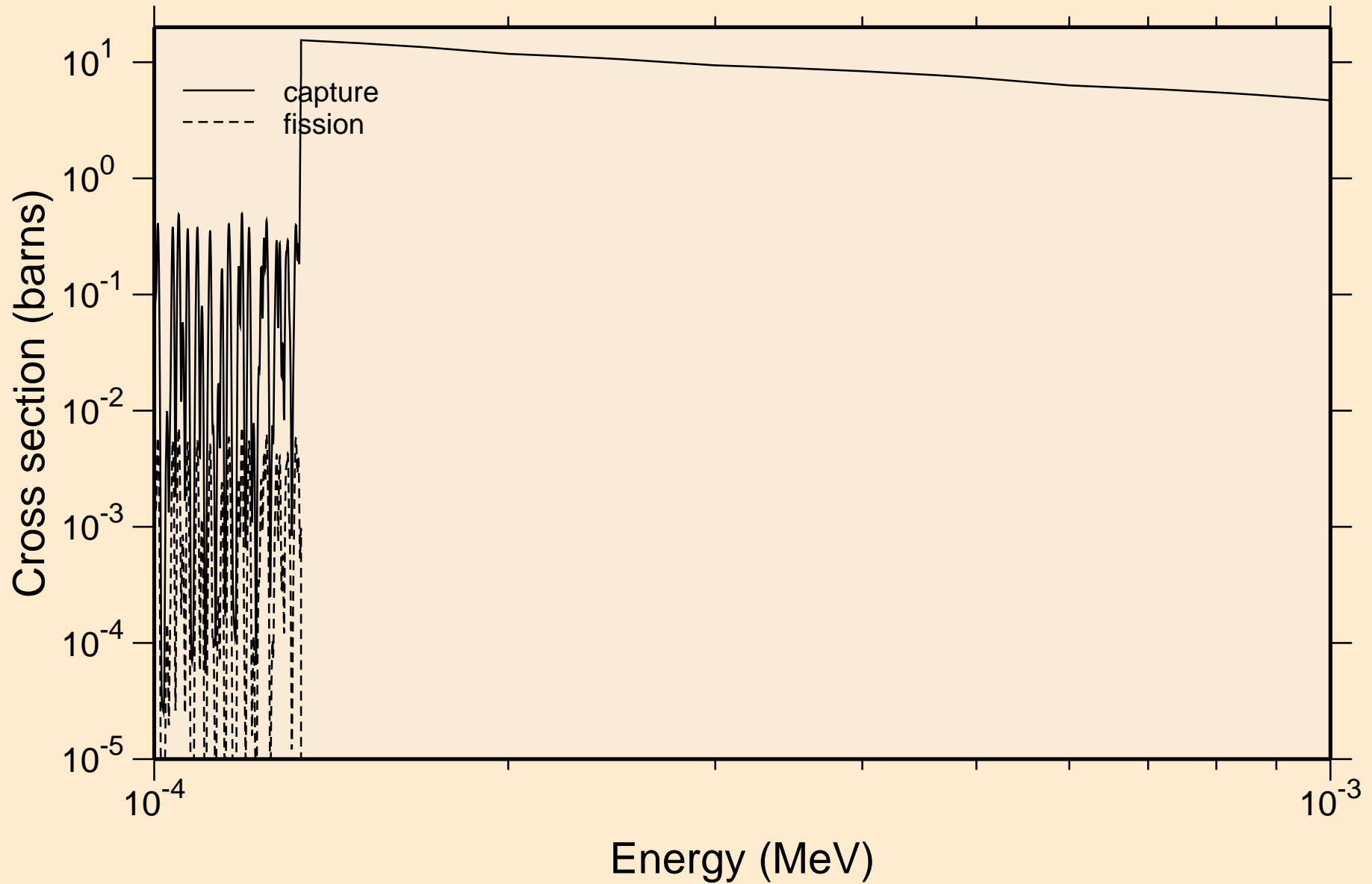
# N-FR220 NRG TENDL-2017, AKONING resonance absorption cross sections



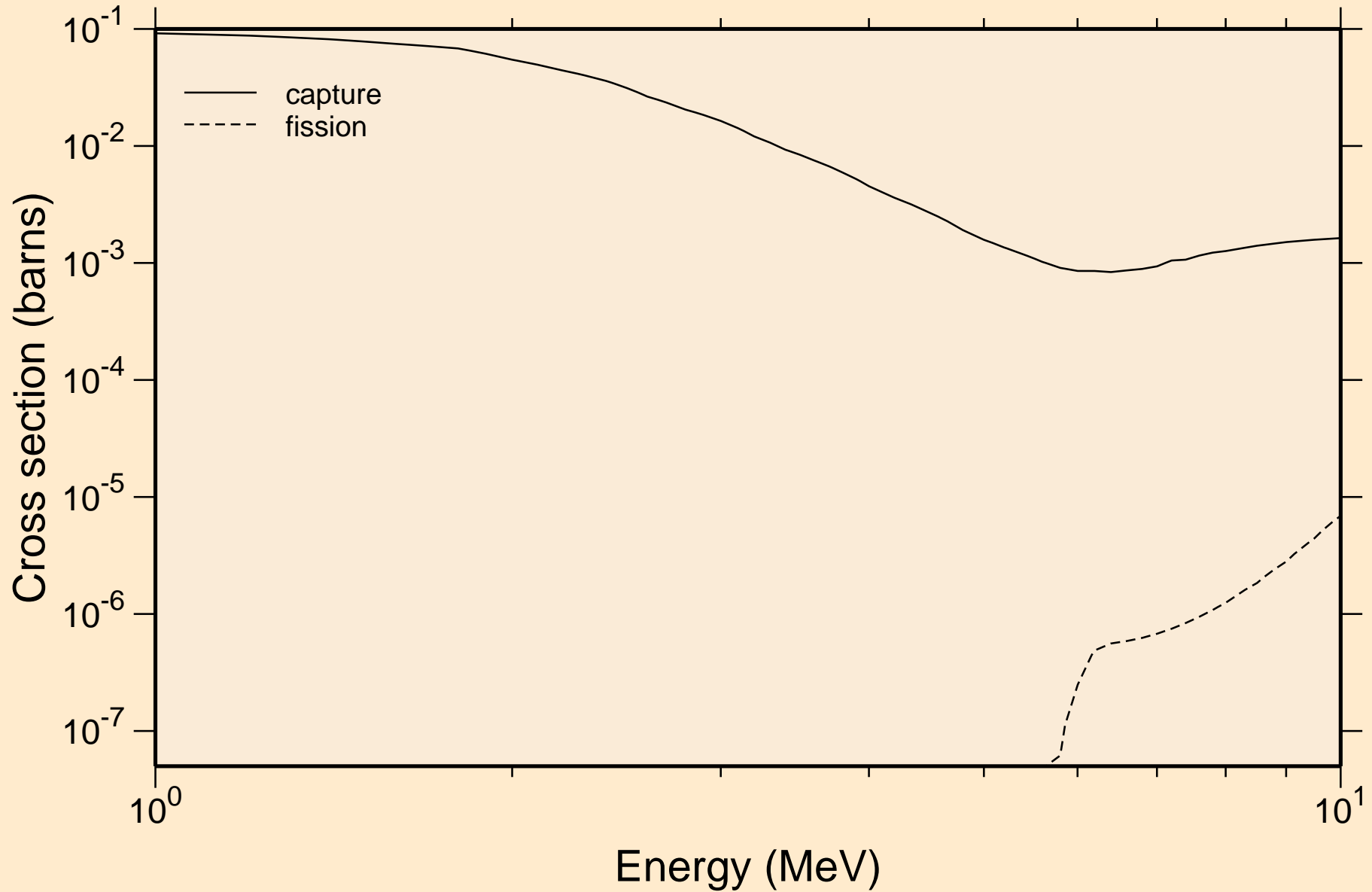
N-FR220 NRG TENDL-2017, AKONING  
resonance absorption cross sections



# N-FR220 NRG TENDL-2017, AKONING resonance absorption cross sections

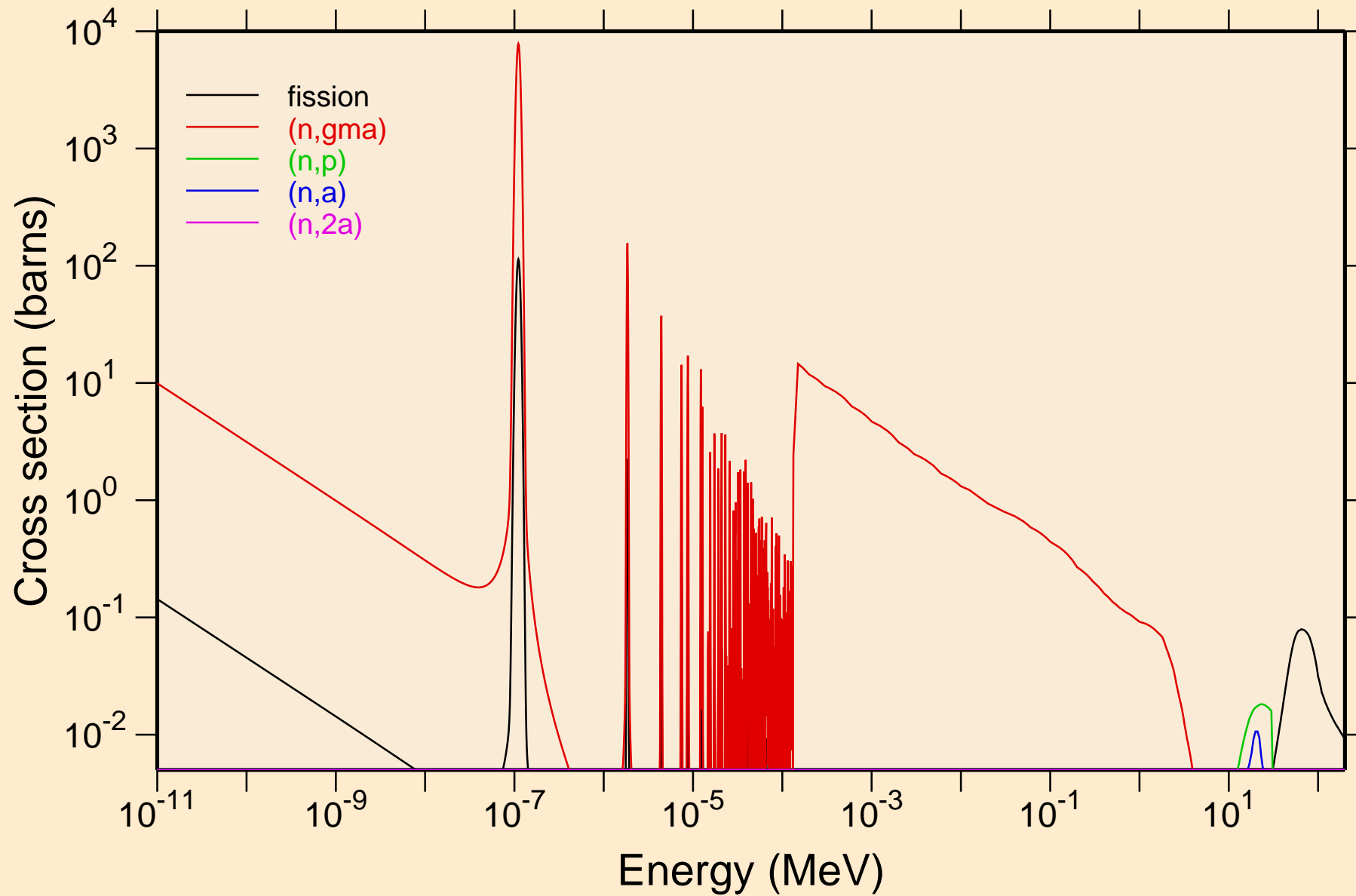


# N-FR220 NRG TENDL-2017, AKONING resonance absorption cross sections



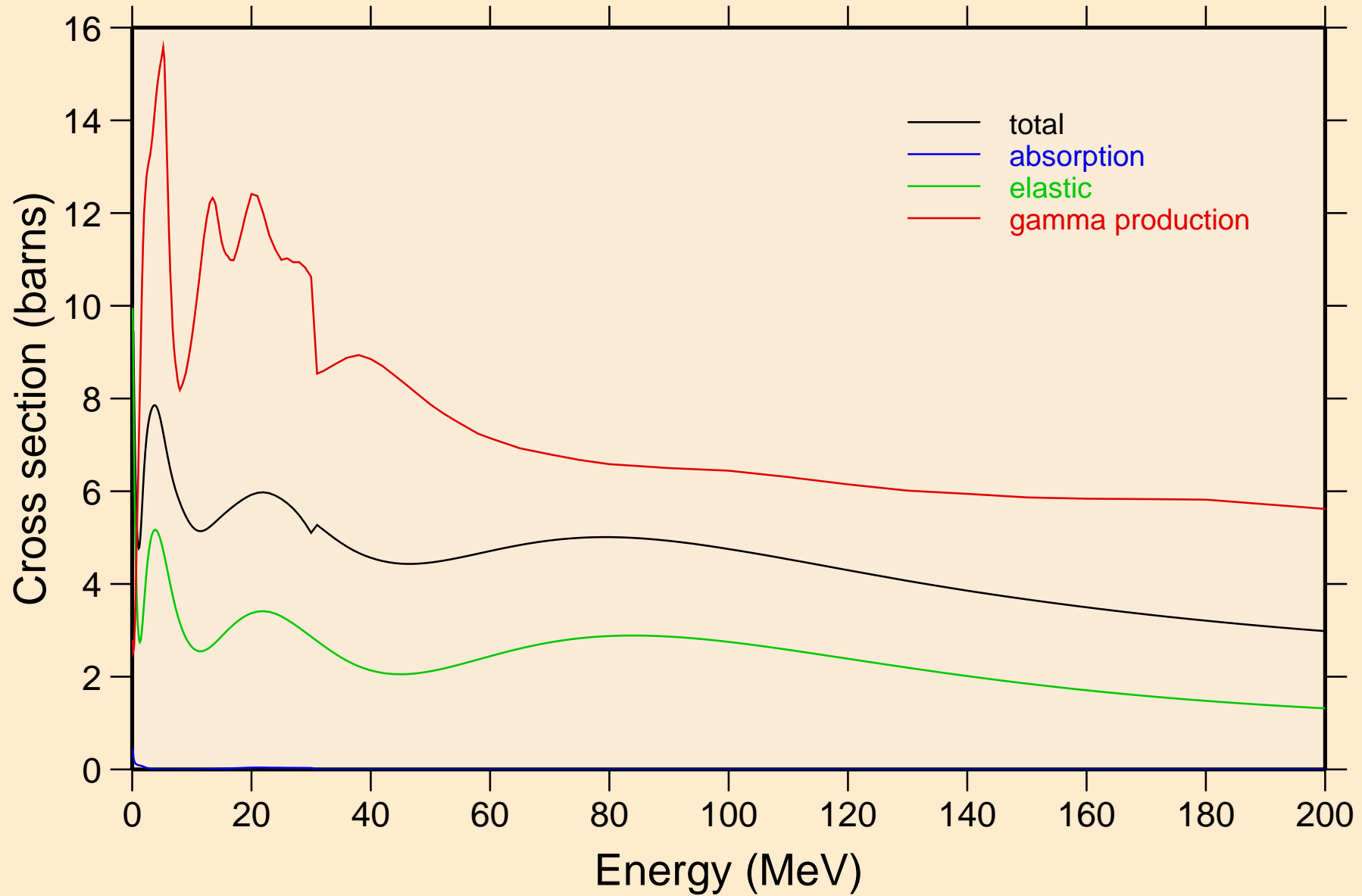
# N-FR220 NRG TENDL-2017, AKONING

## Non-threshold reactions



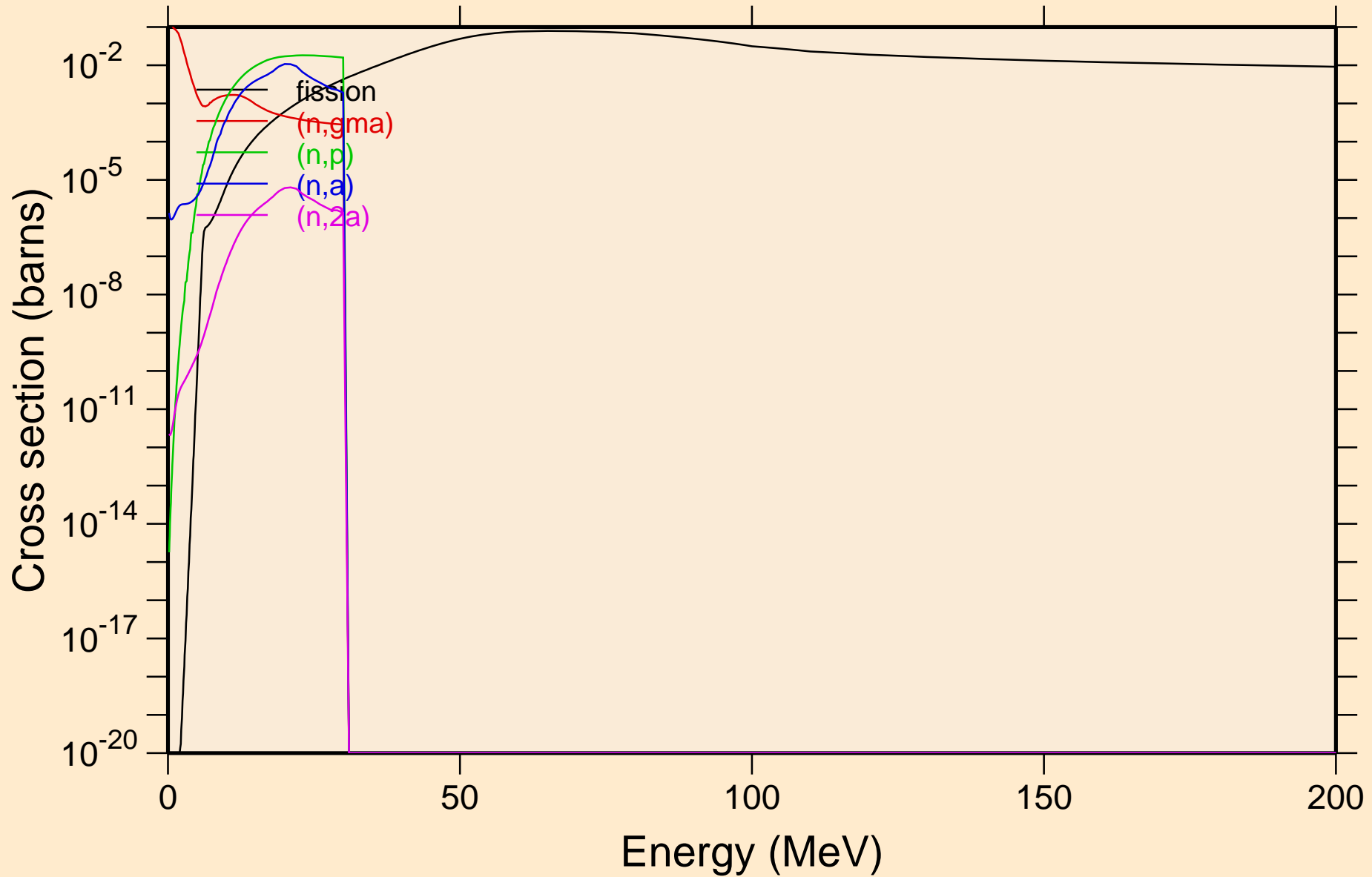
# N-FR220 NRG TENDL-2017, AKONING

## Principal cross sections



# N-FR220 NRG TENDL-2017, AKONING

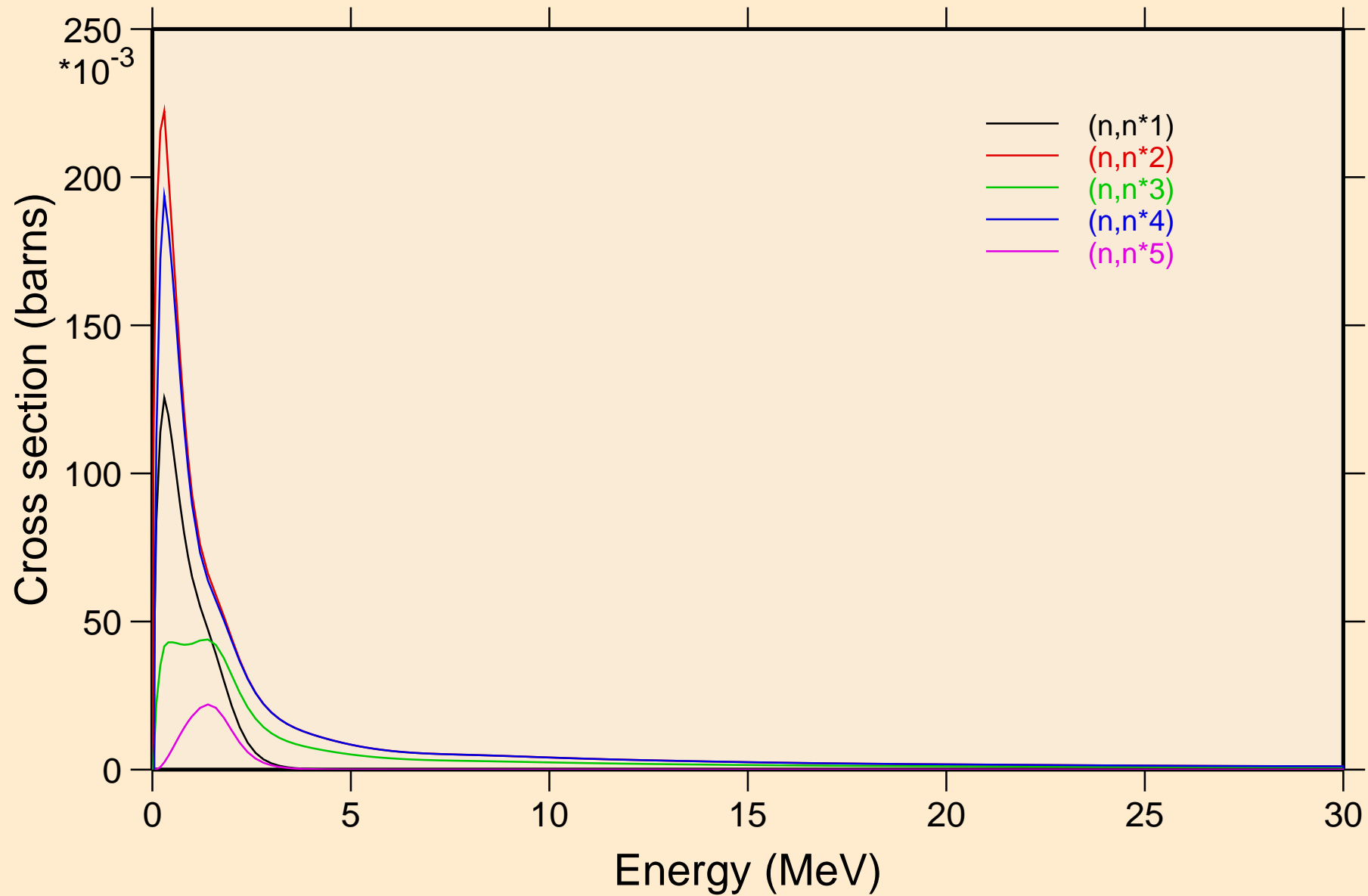
## Non-threshold reactions





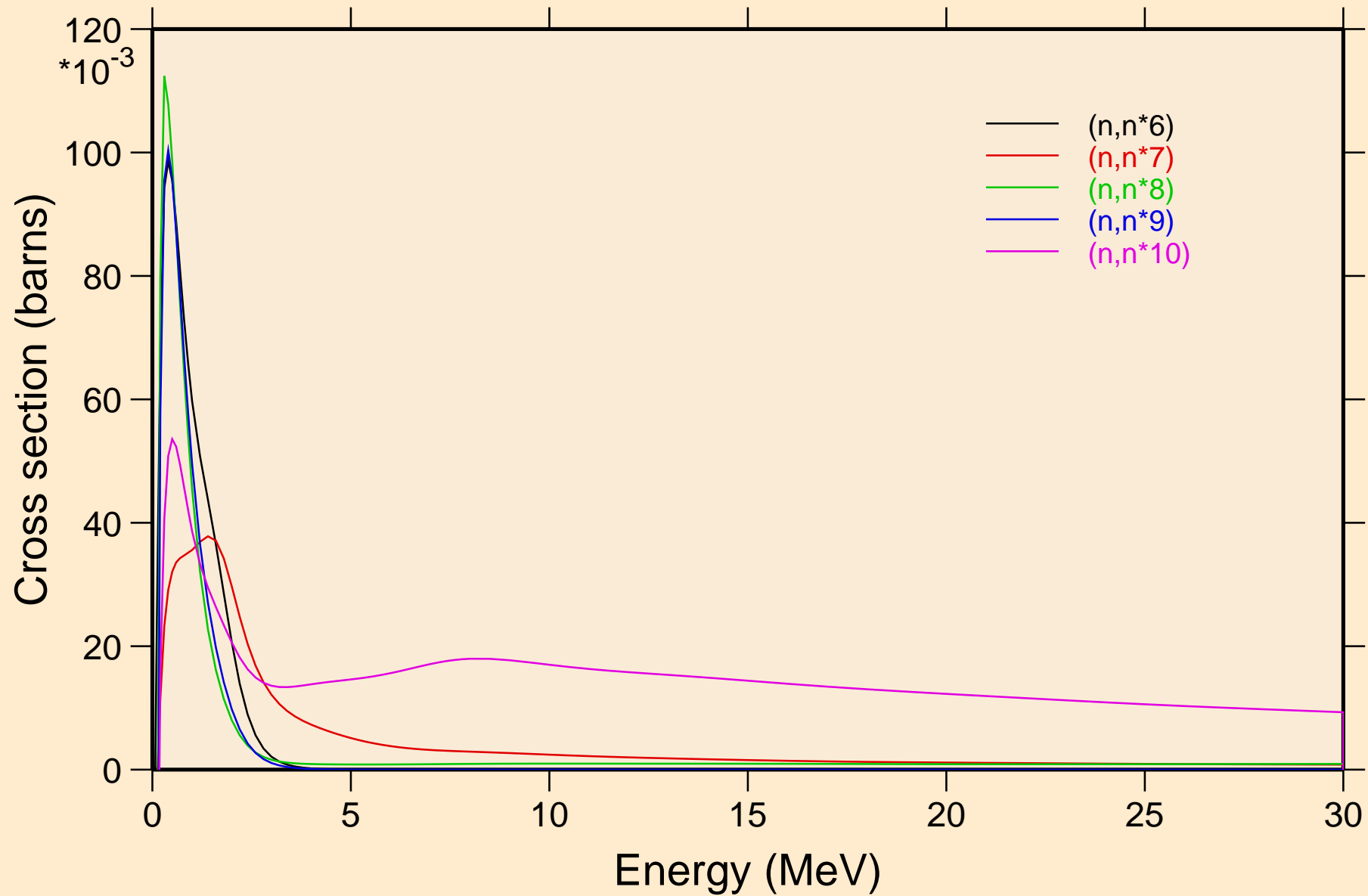
# N-FR220 NRG TENDL-2017, AKONING

## Inelastic levels



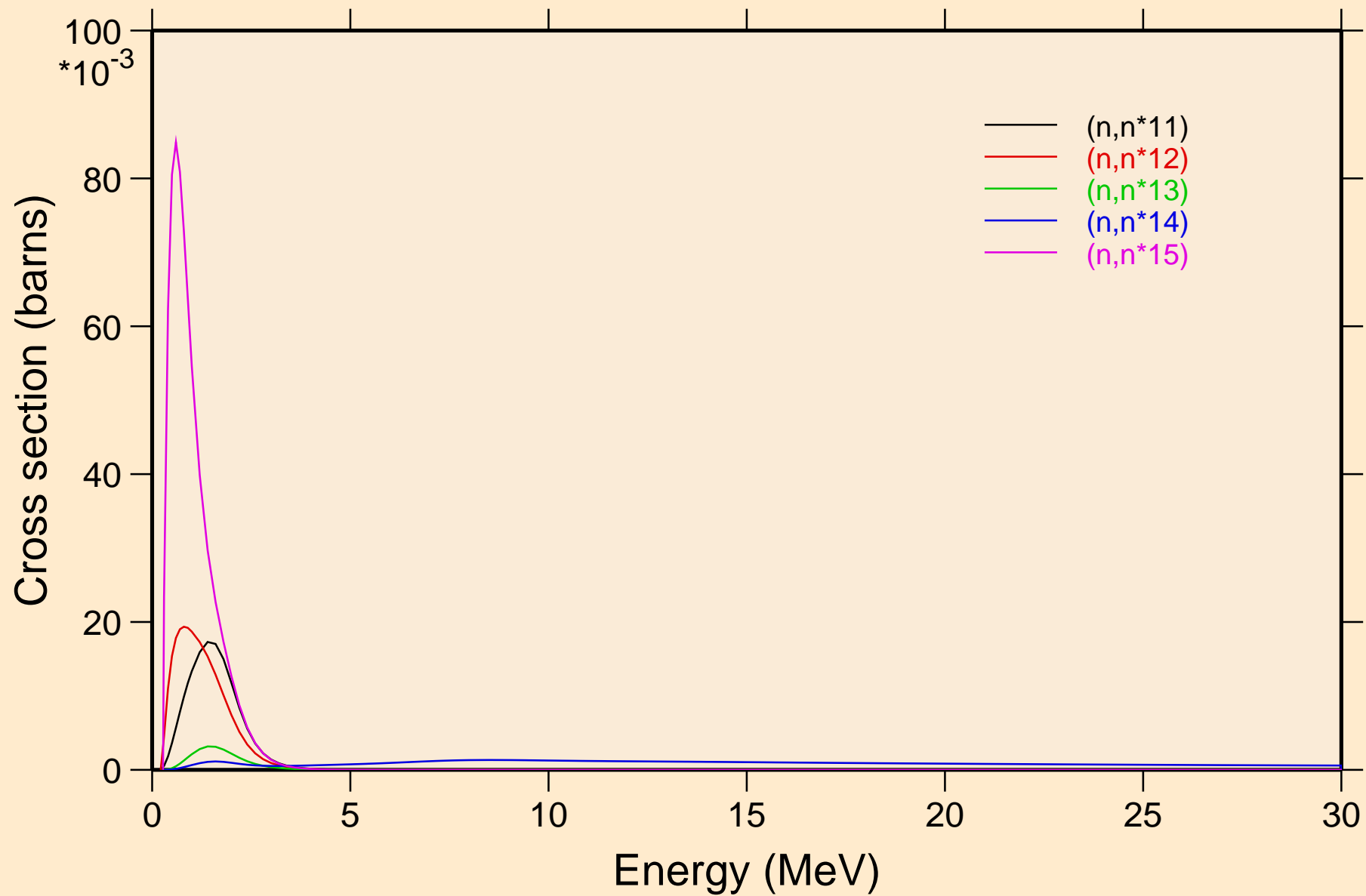
# N-FR220 NRG TENDL-2017, AKONING

## Inelastic levels



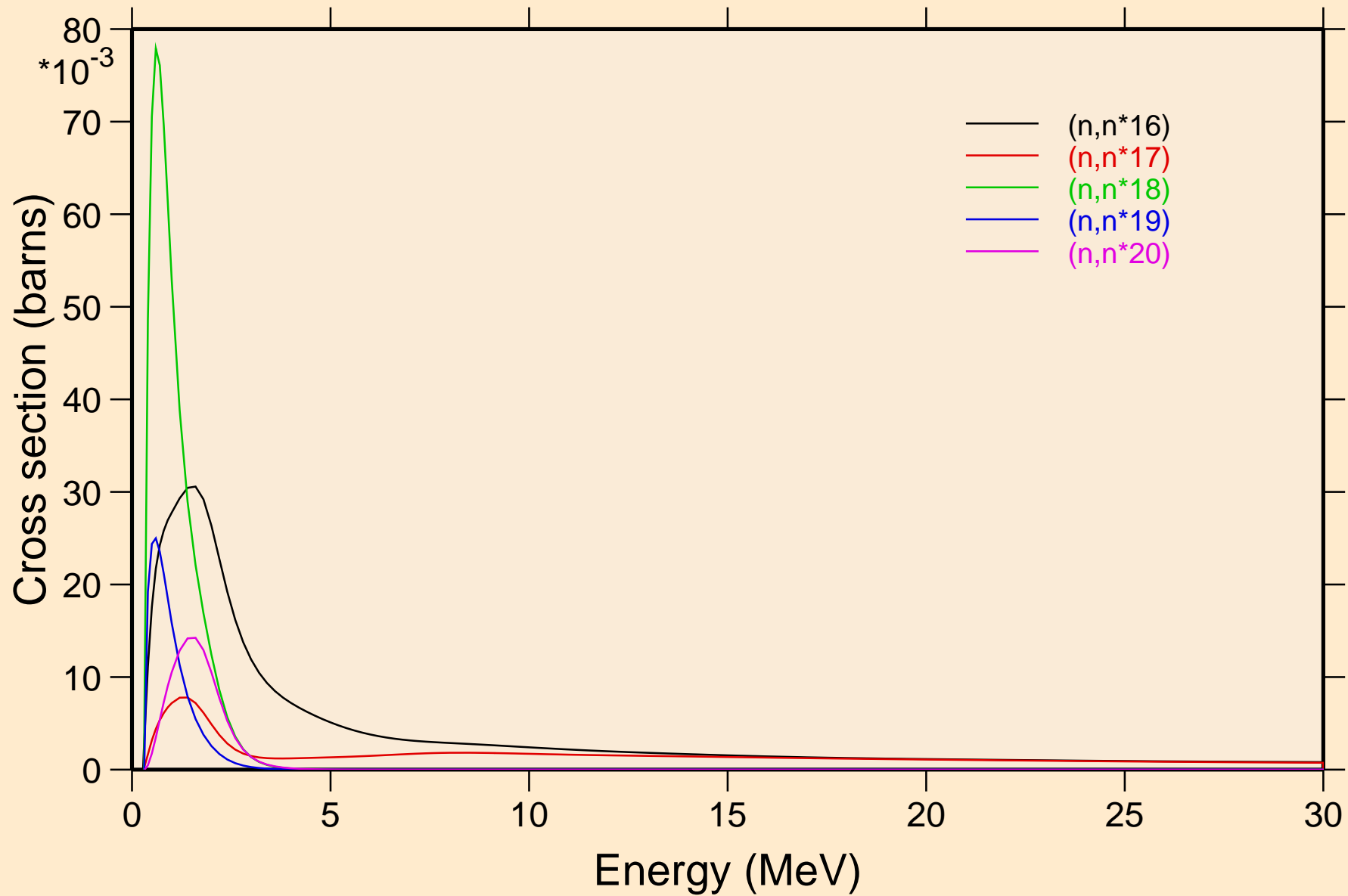
# N-FR220 NRG TENDL-2017, AKONING

## Inelastic levels



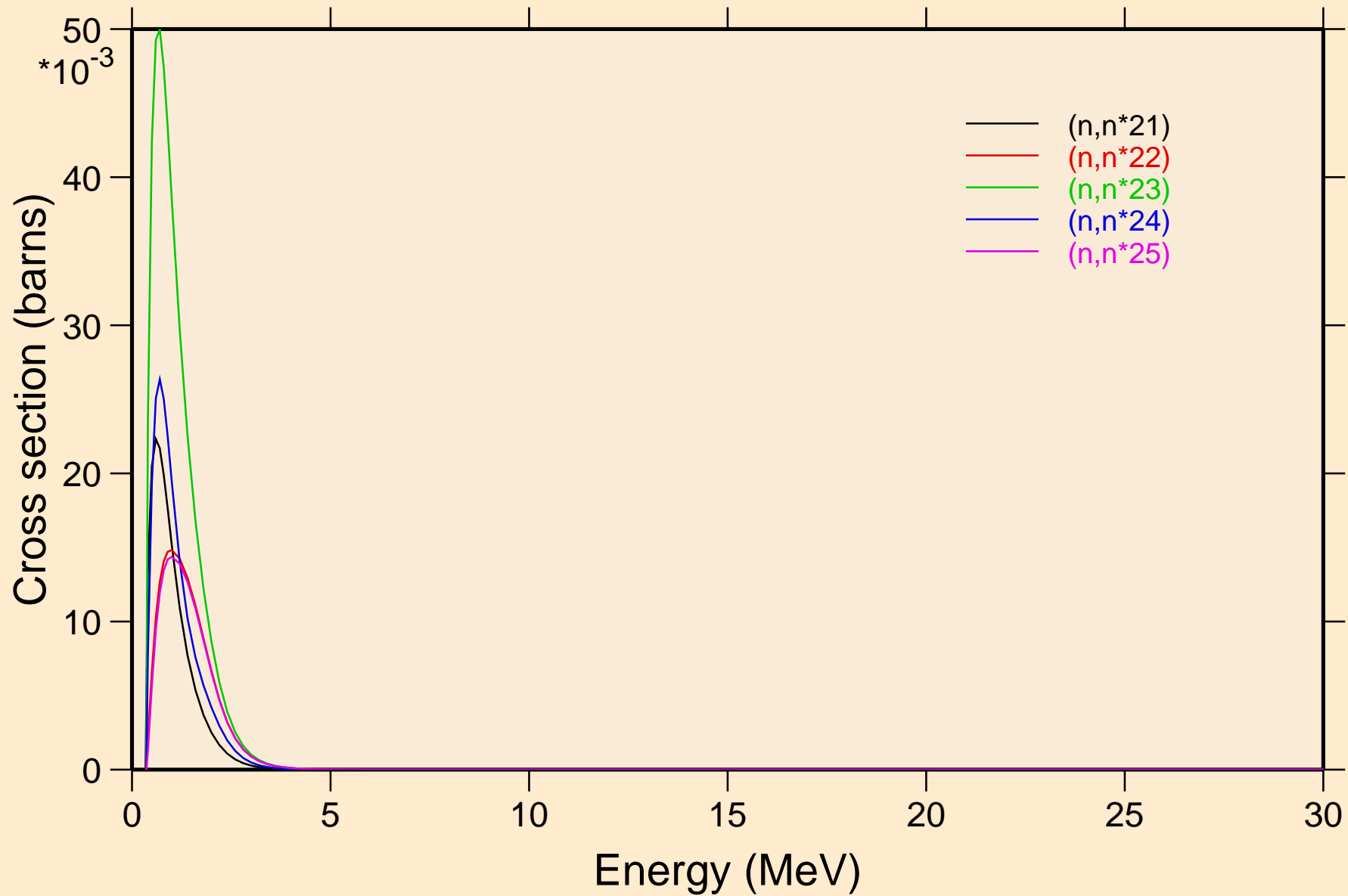
# N-FR220 NRG TENDL-2017, AKONING

## Inelastic levels



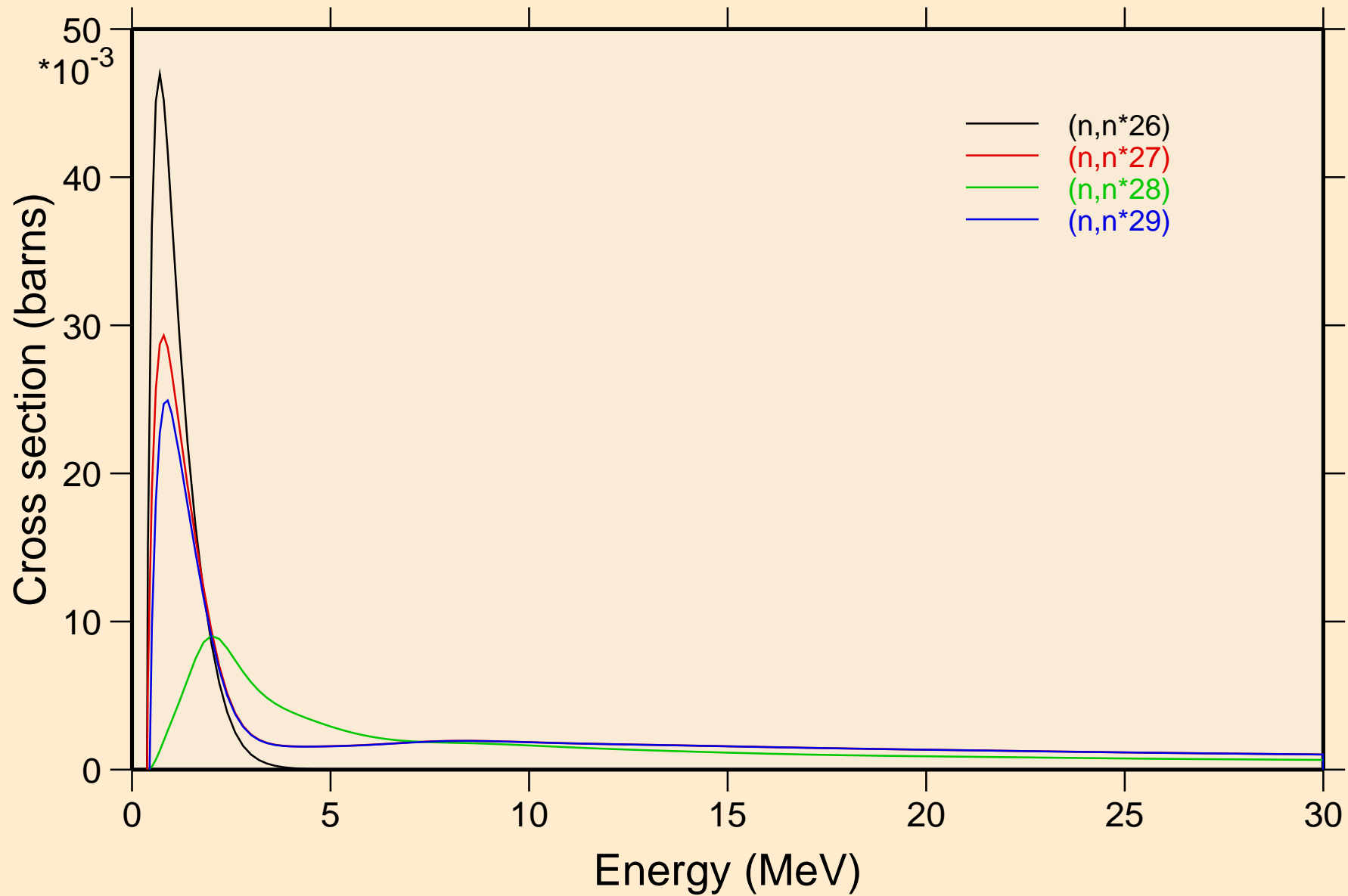
# N-FR220 NRG TENDL-2017, AKONING

## Inelastic levels



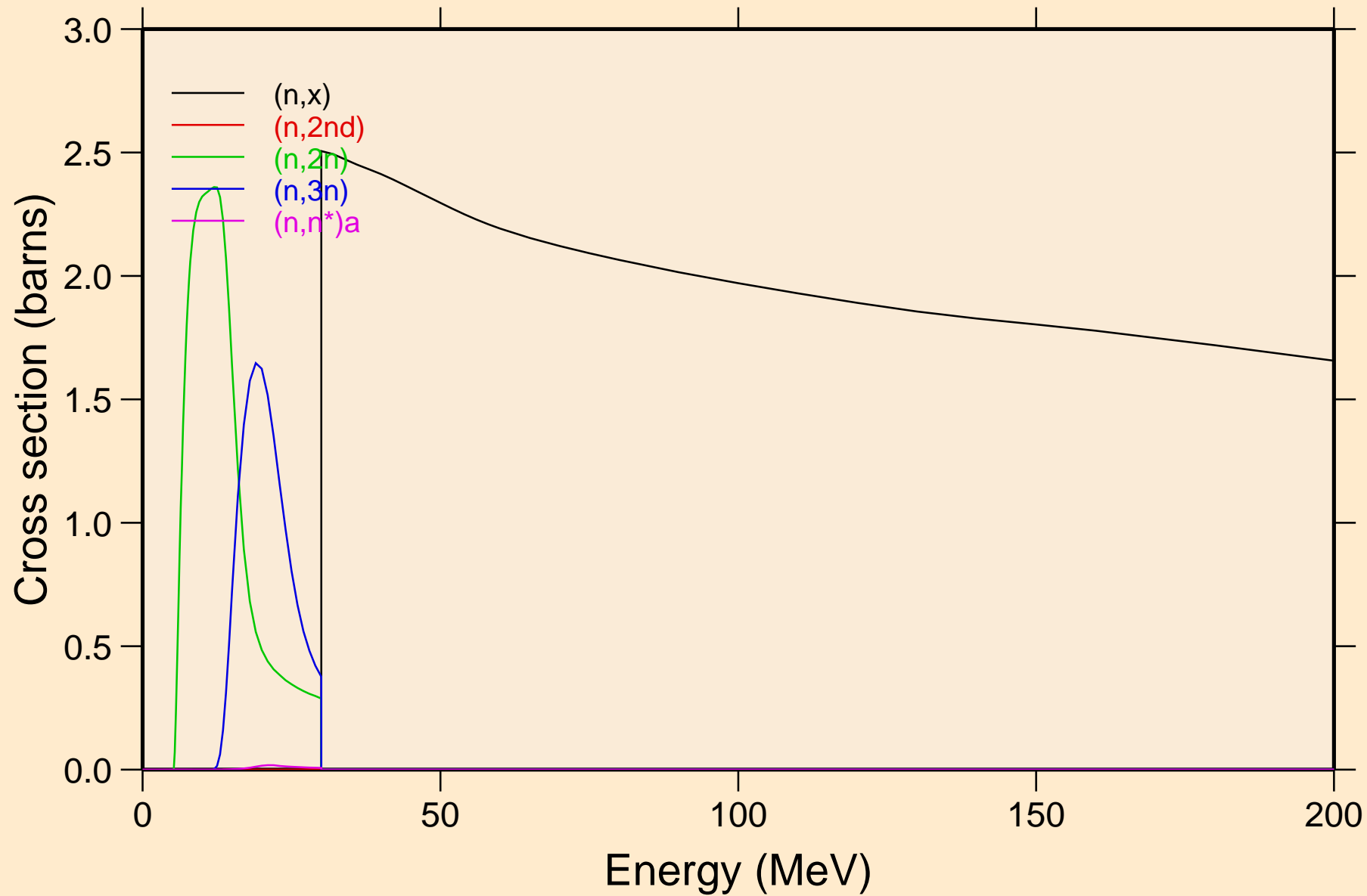
# N-FR220 NRG TENDL-2017, AKONING

## Inelastic levels



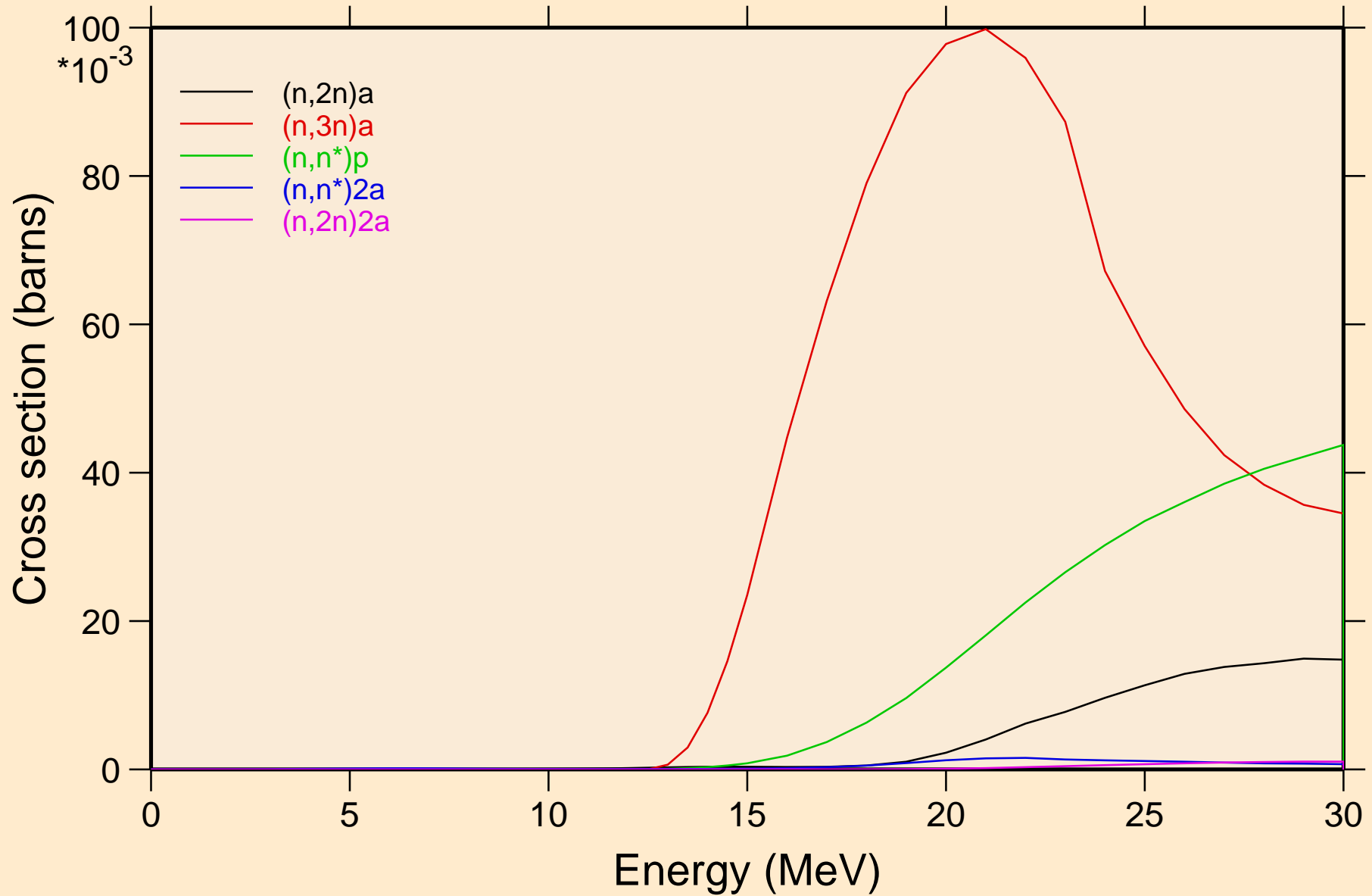
# N-FR220 NRG TENDL-2017, AKONING

## Threshold reactions



# N-FR220 NRG TENDL-2017, AKONING

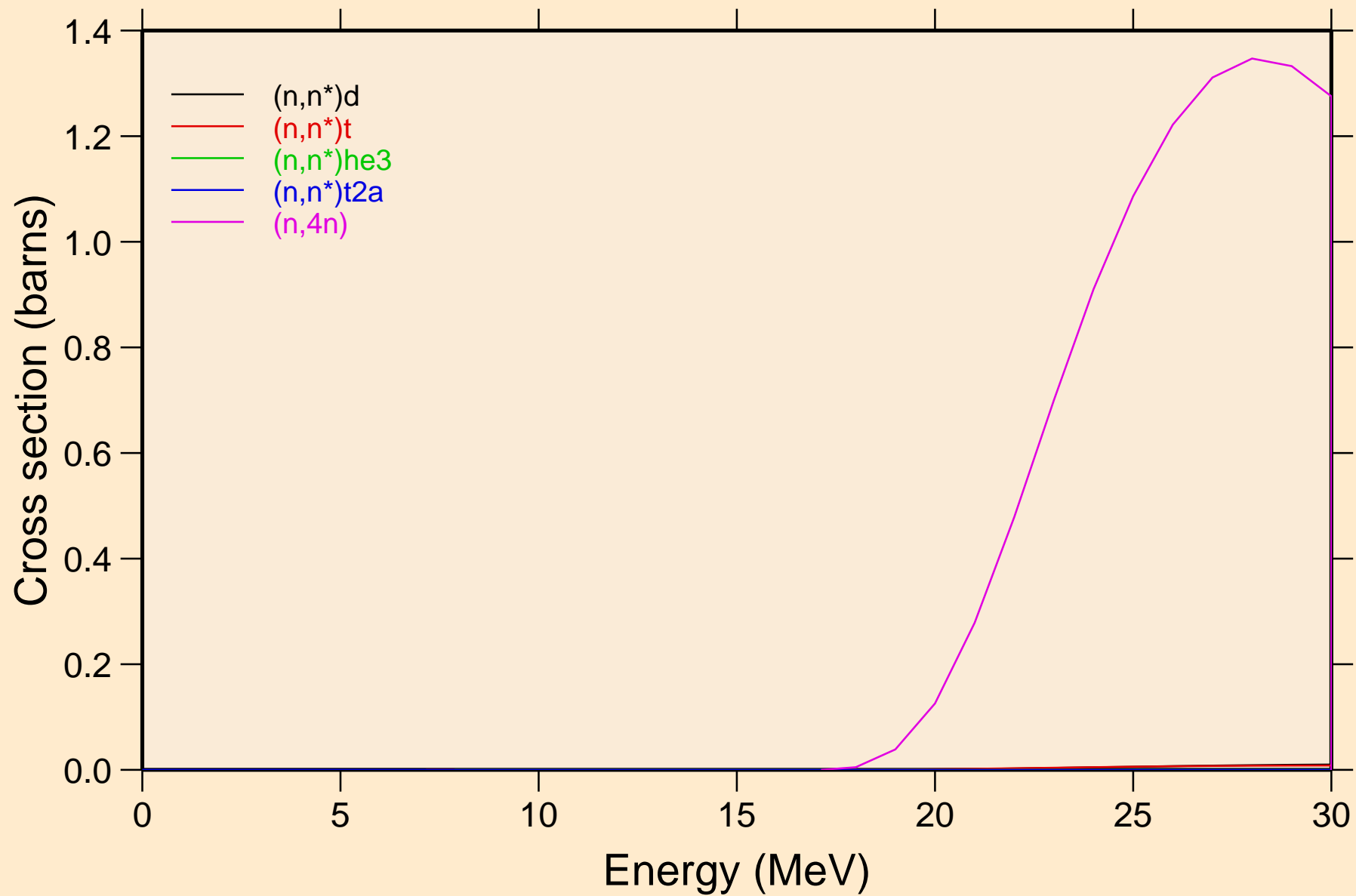
## Threshold reactions





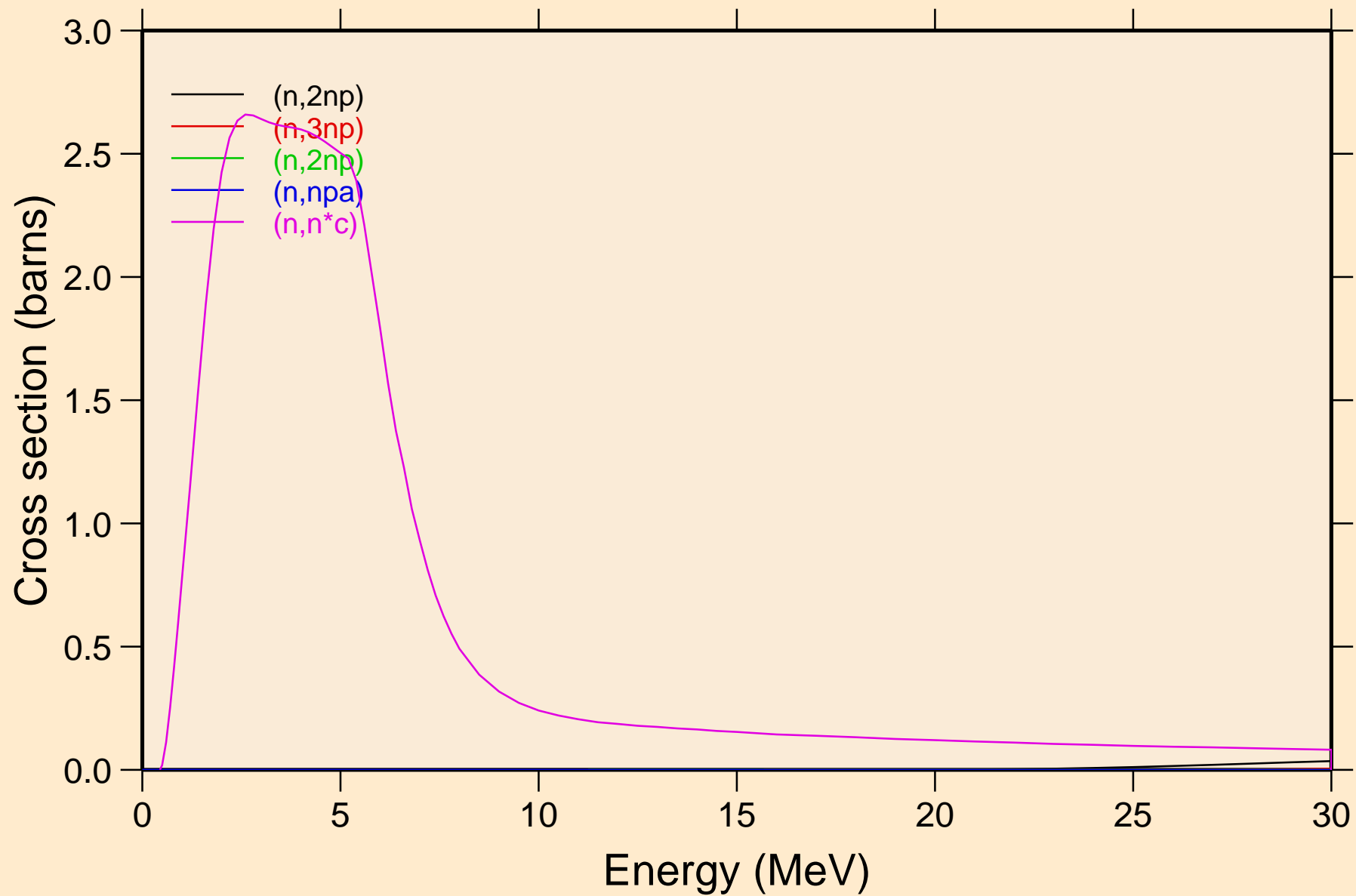
# N-FR220 NRG TENDL-2017, AKONING

## Threshold reactions



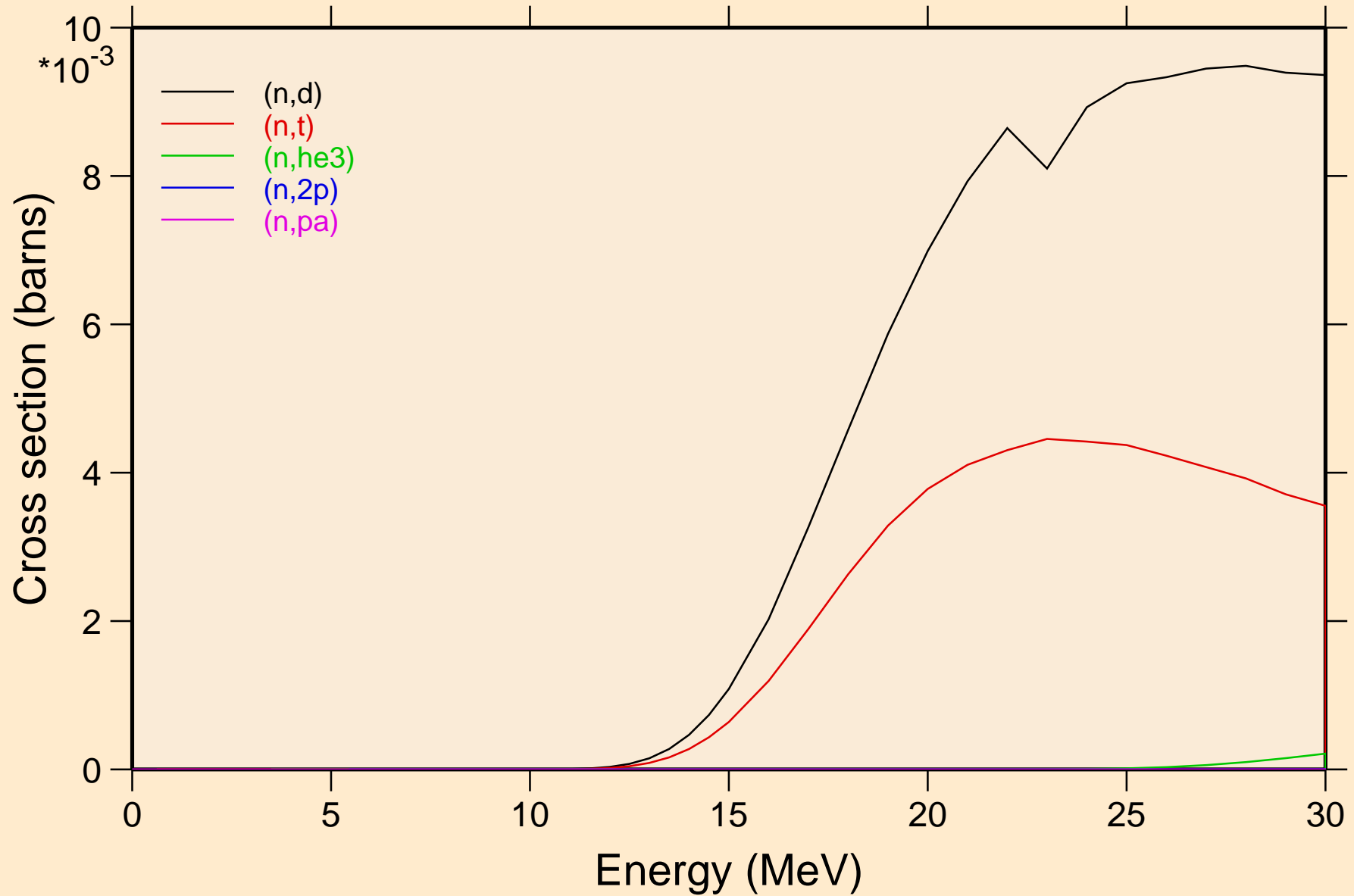
# N-FR220 NRG TENDL-2017, AKONING

## Threshold reactions



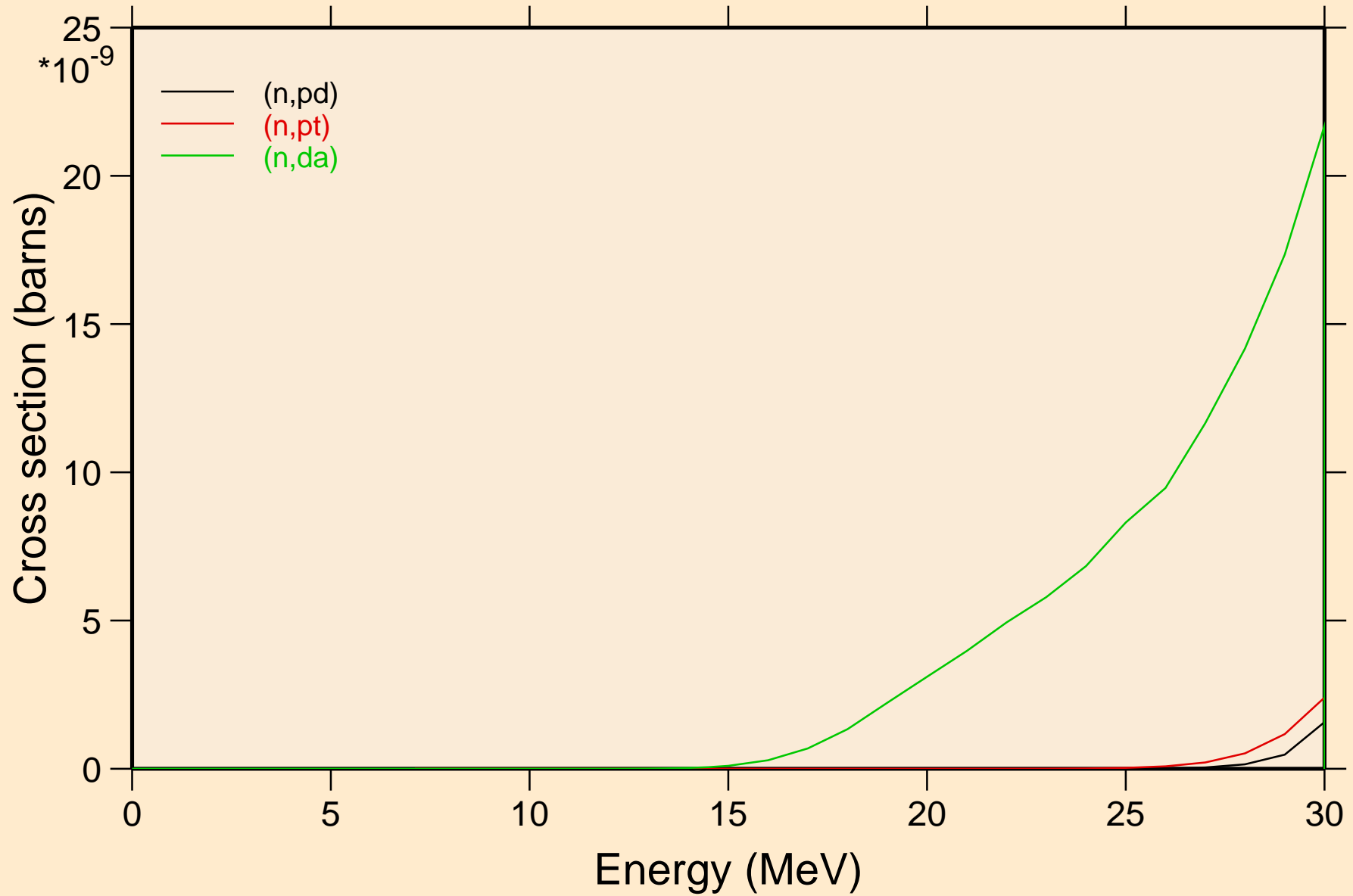
# N-FR220 NRG TENDL-2017, AKONING

## Threshold reactions

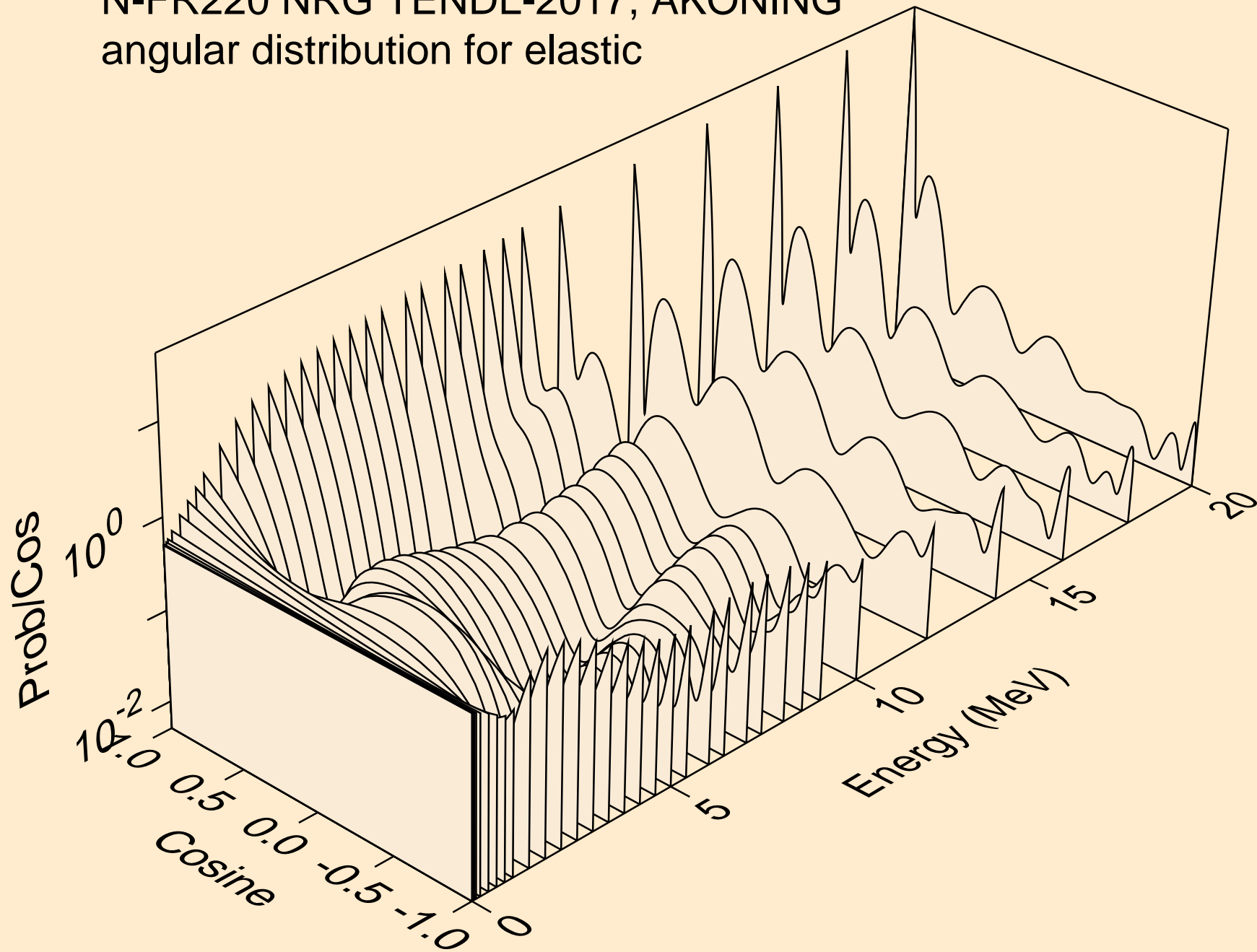


# N-FR220 NRG TENDL-2017, AKONING

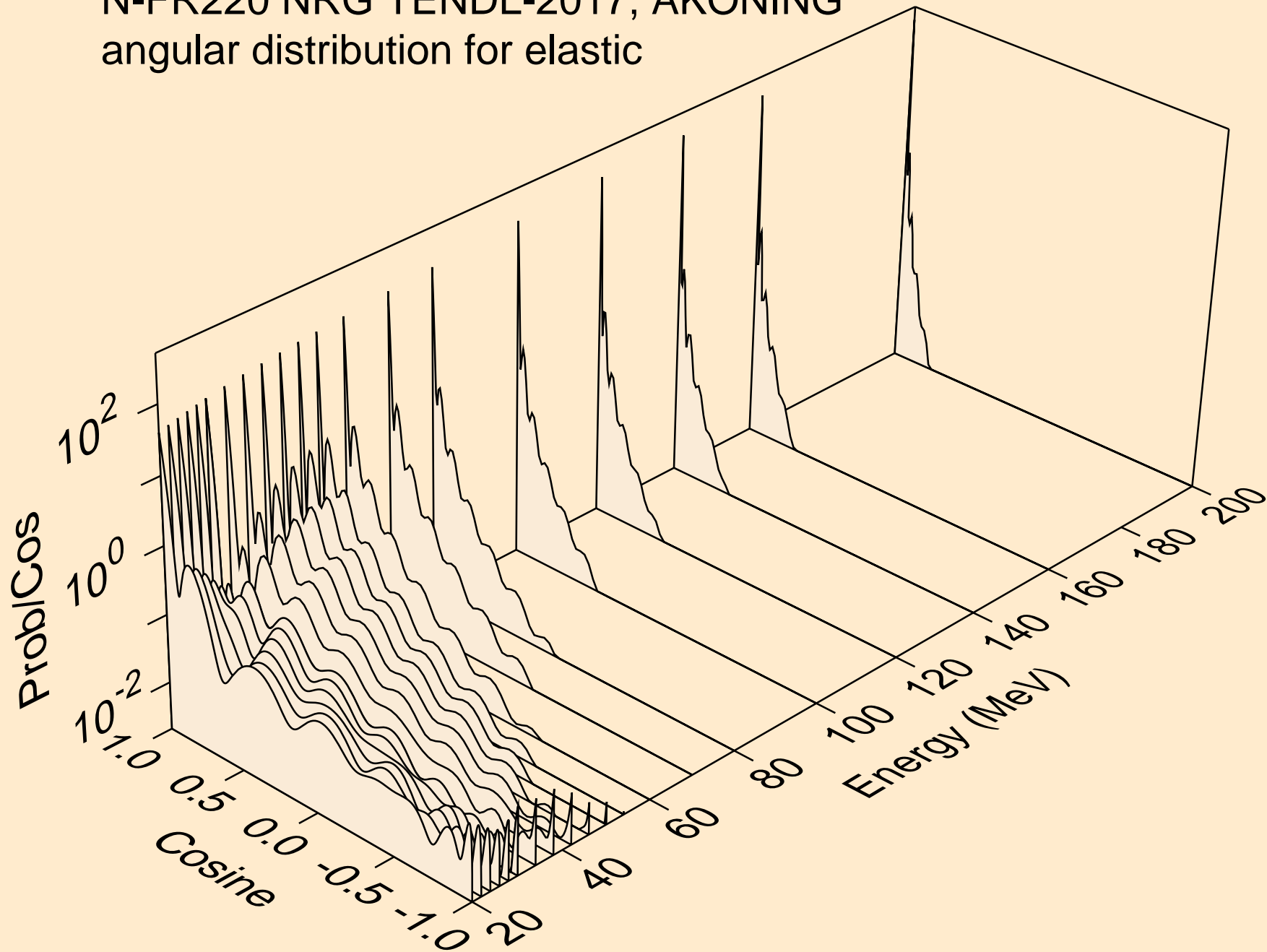
## Threshold reactions



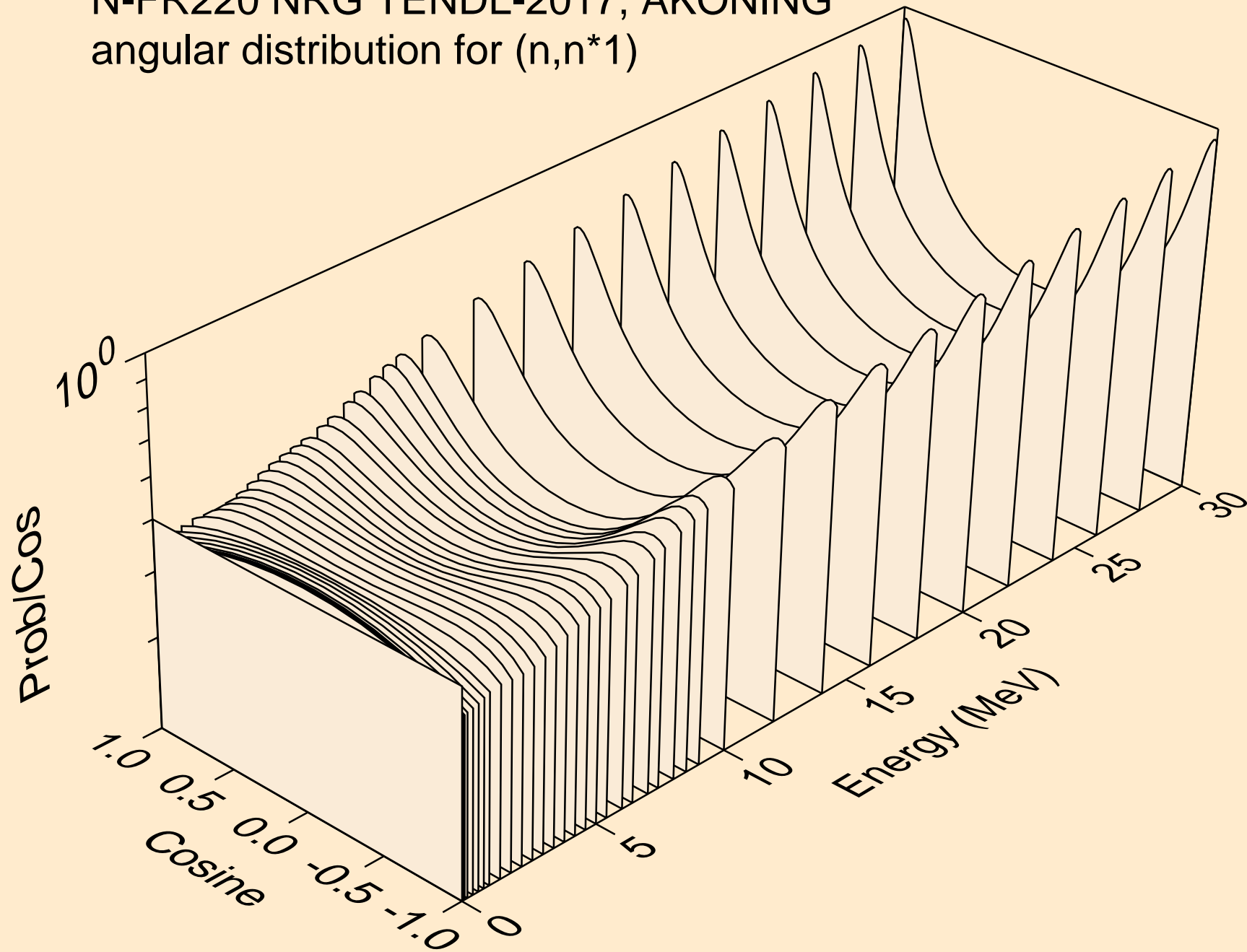
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for elastic



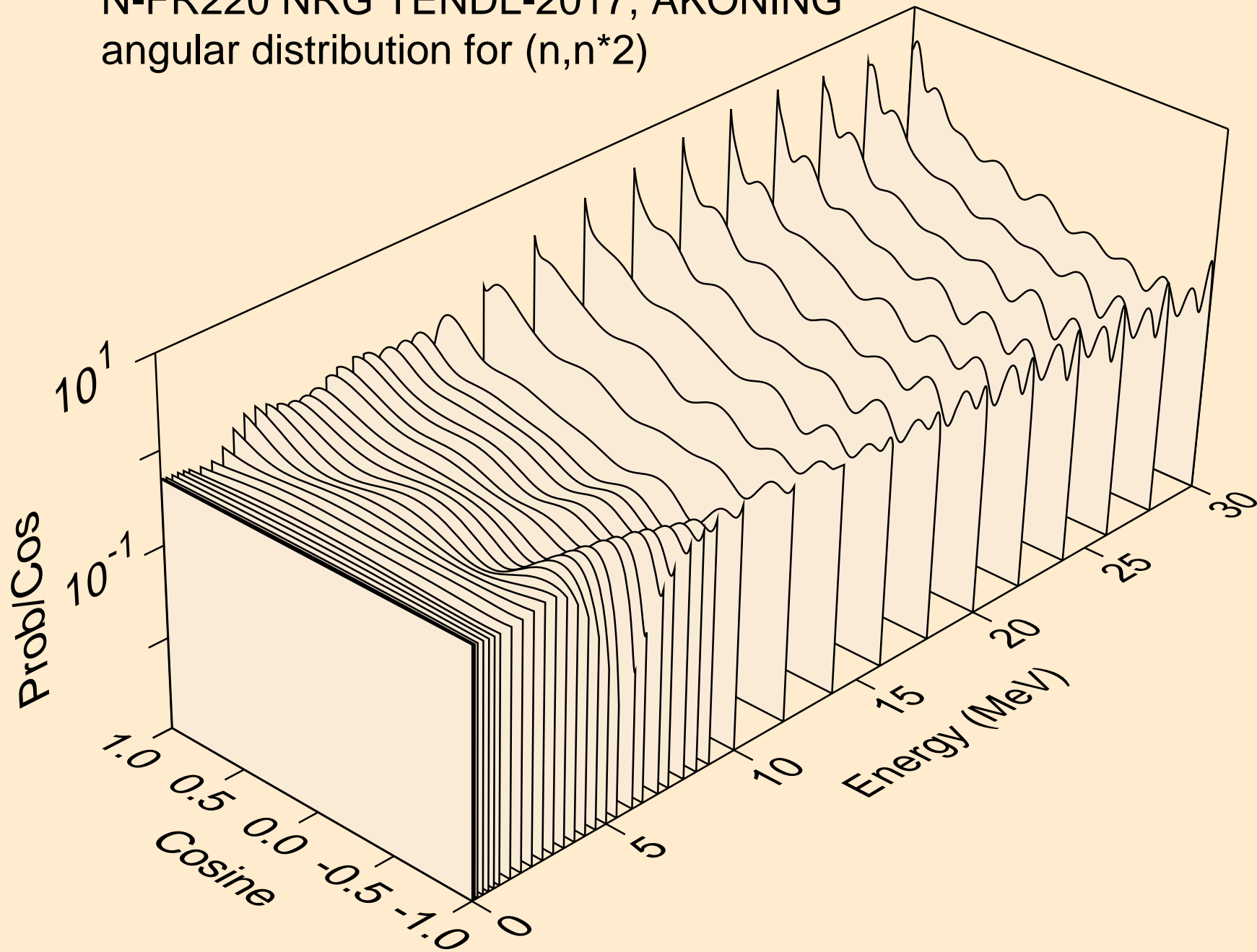
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for elastic



N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*1)

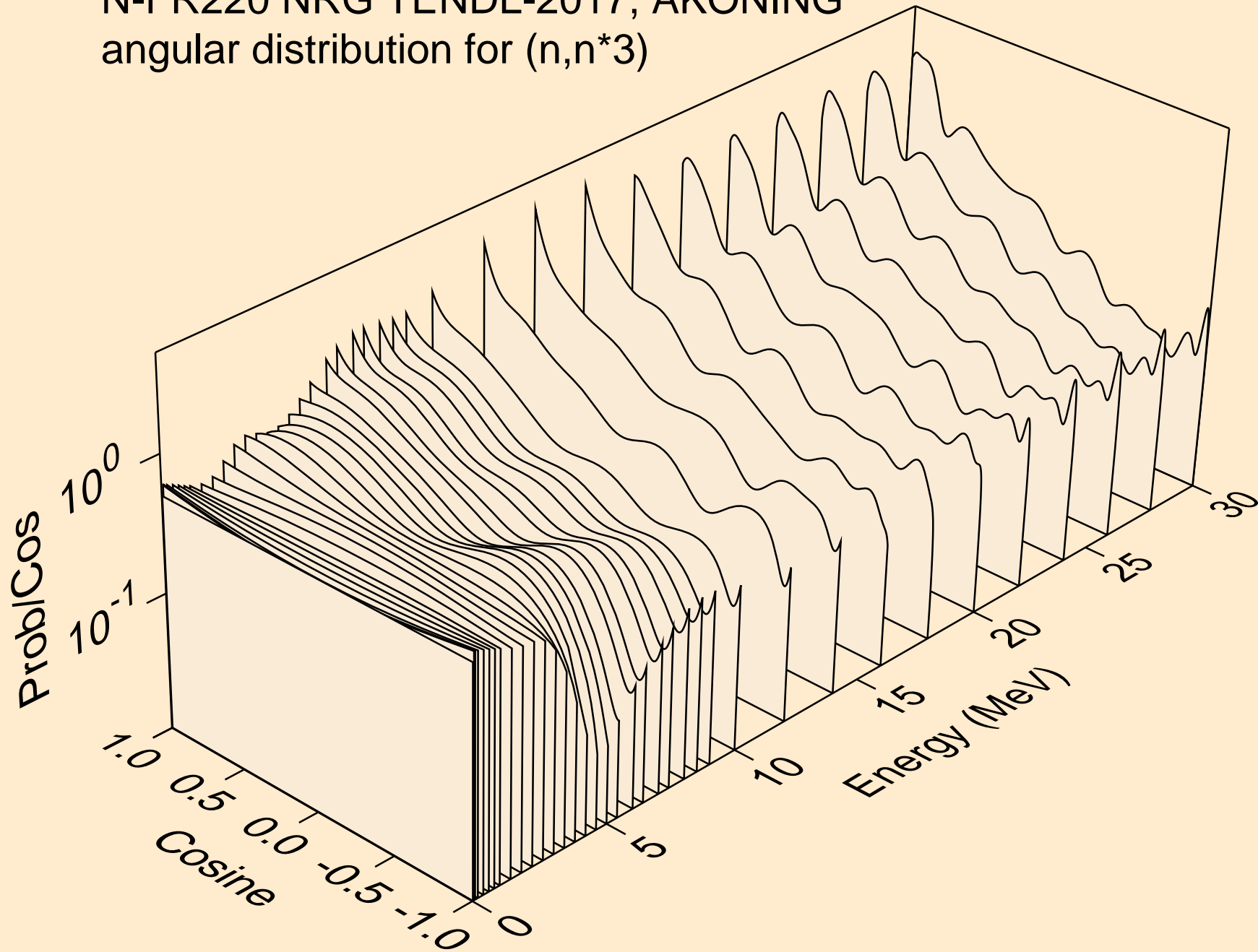


N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*2)

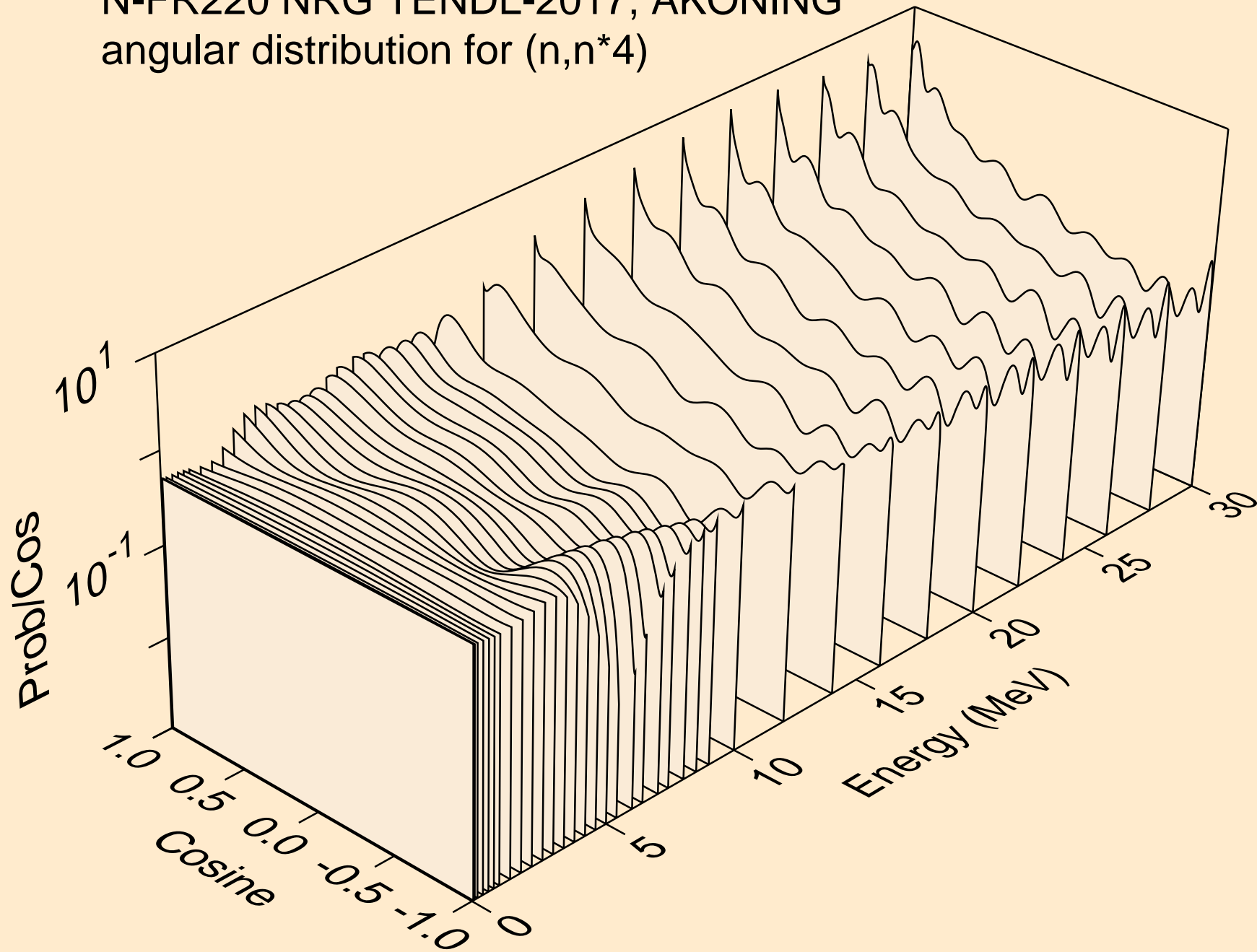




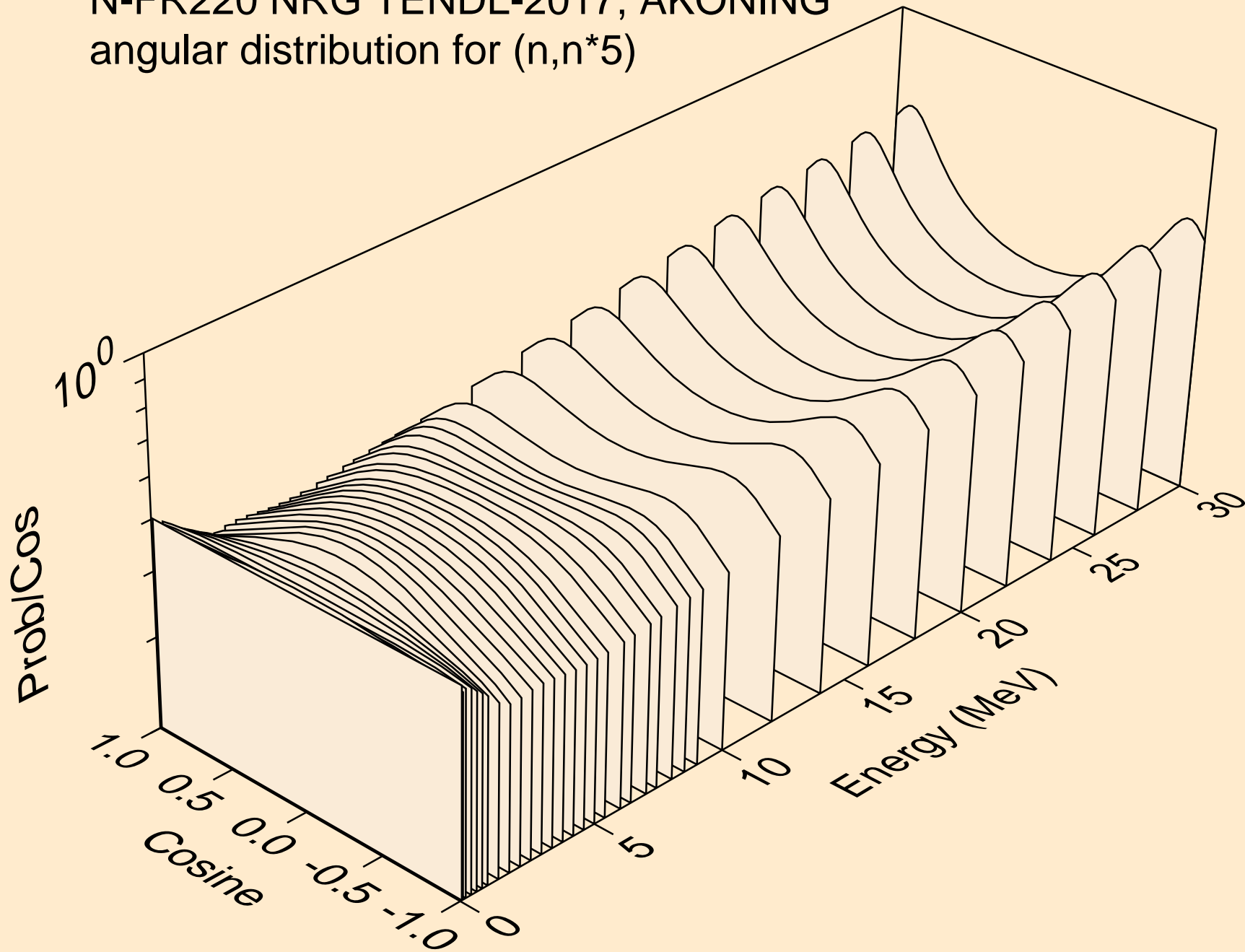
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*3)



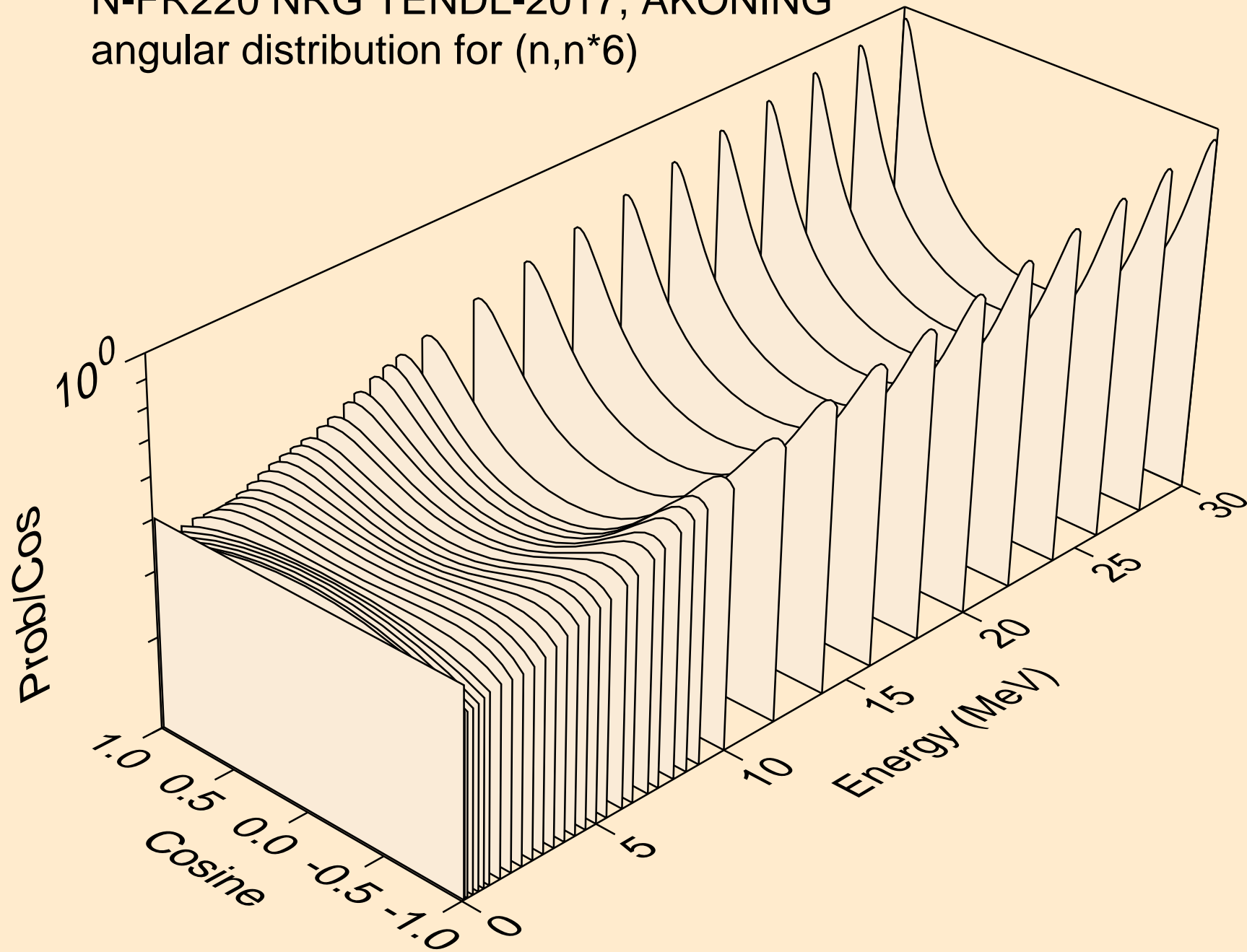
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*4)



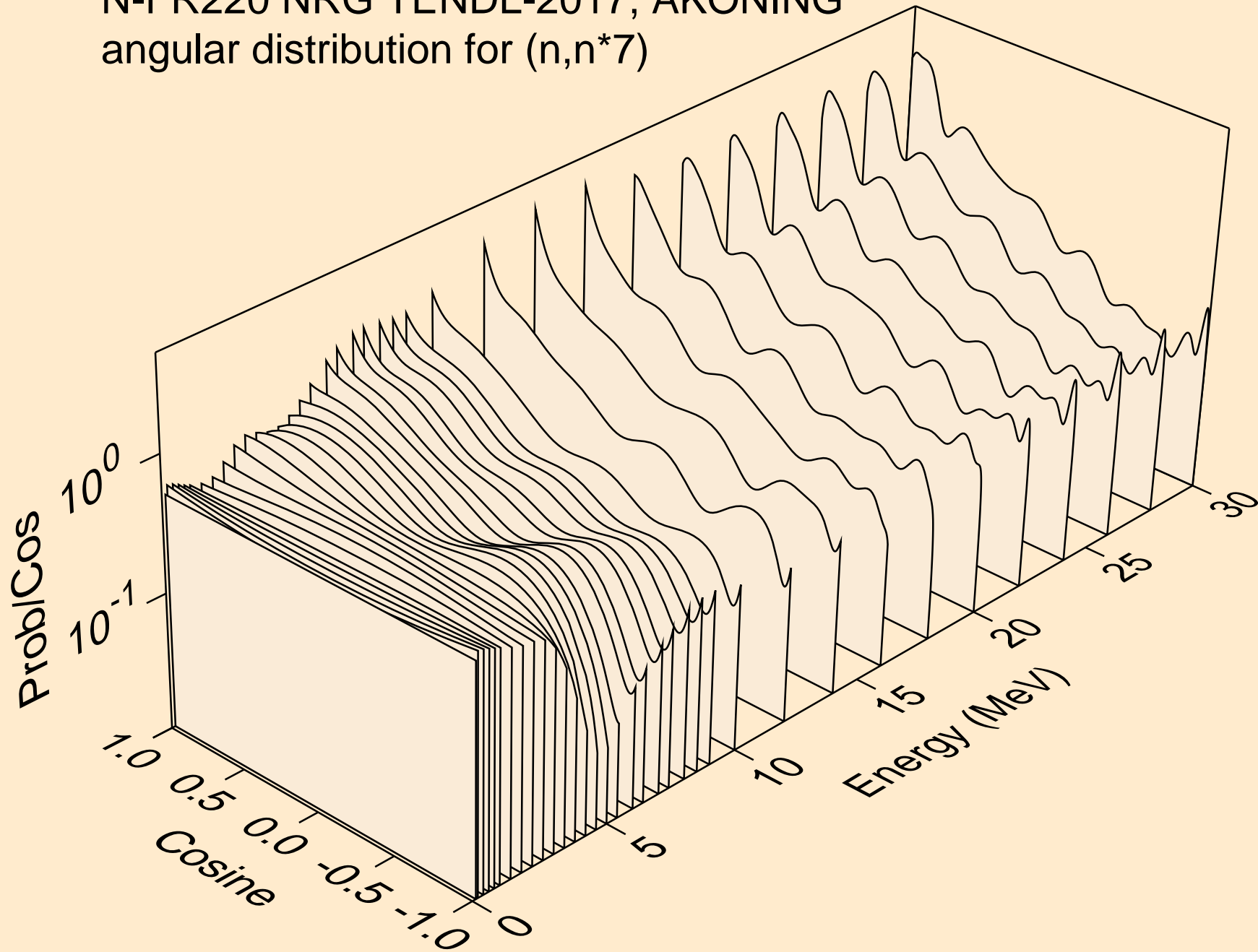
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*5)



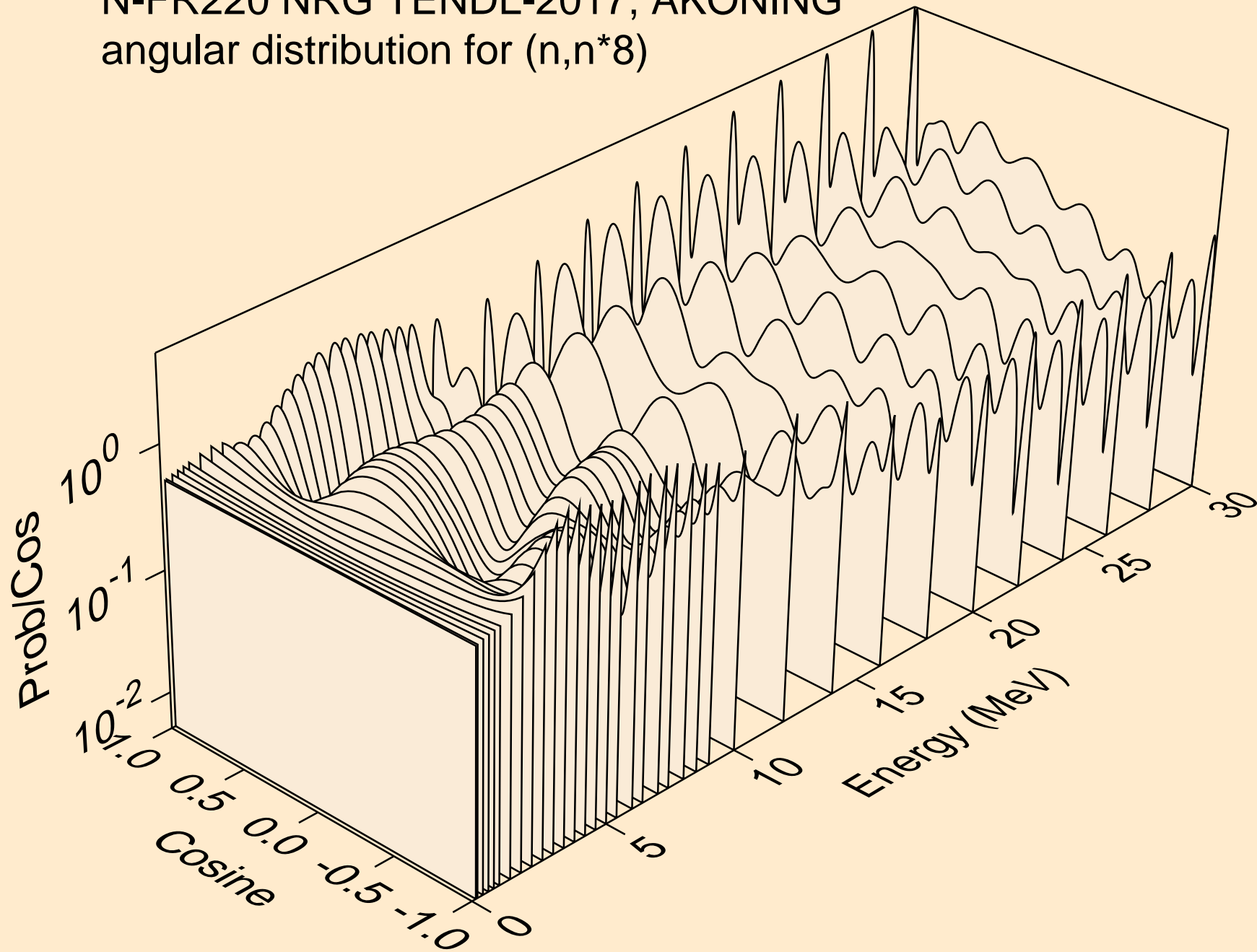
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*6)



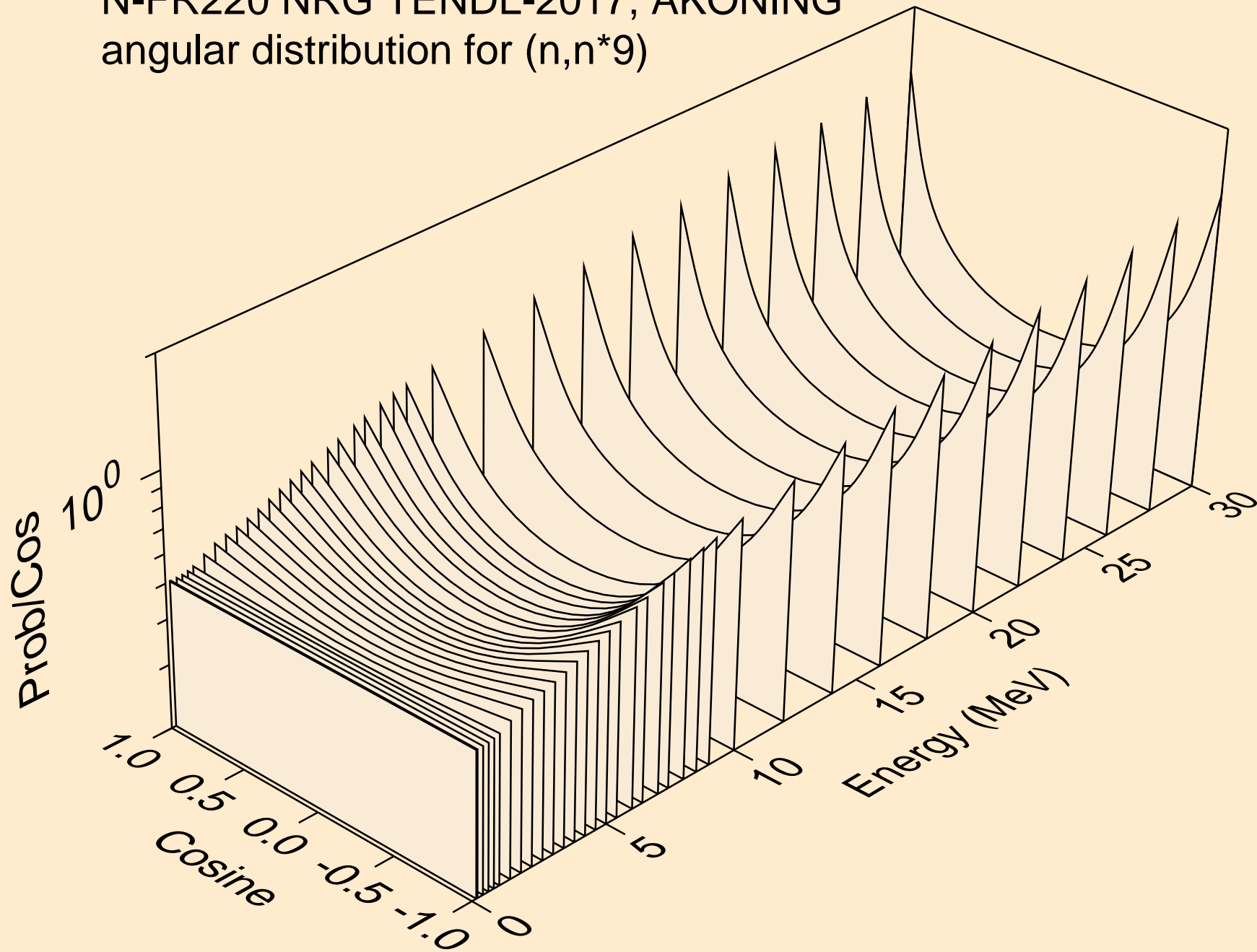
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*7)



N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*8)

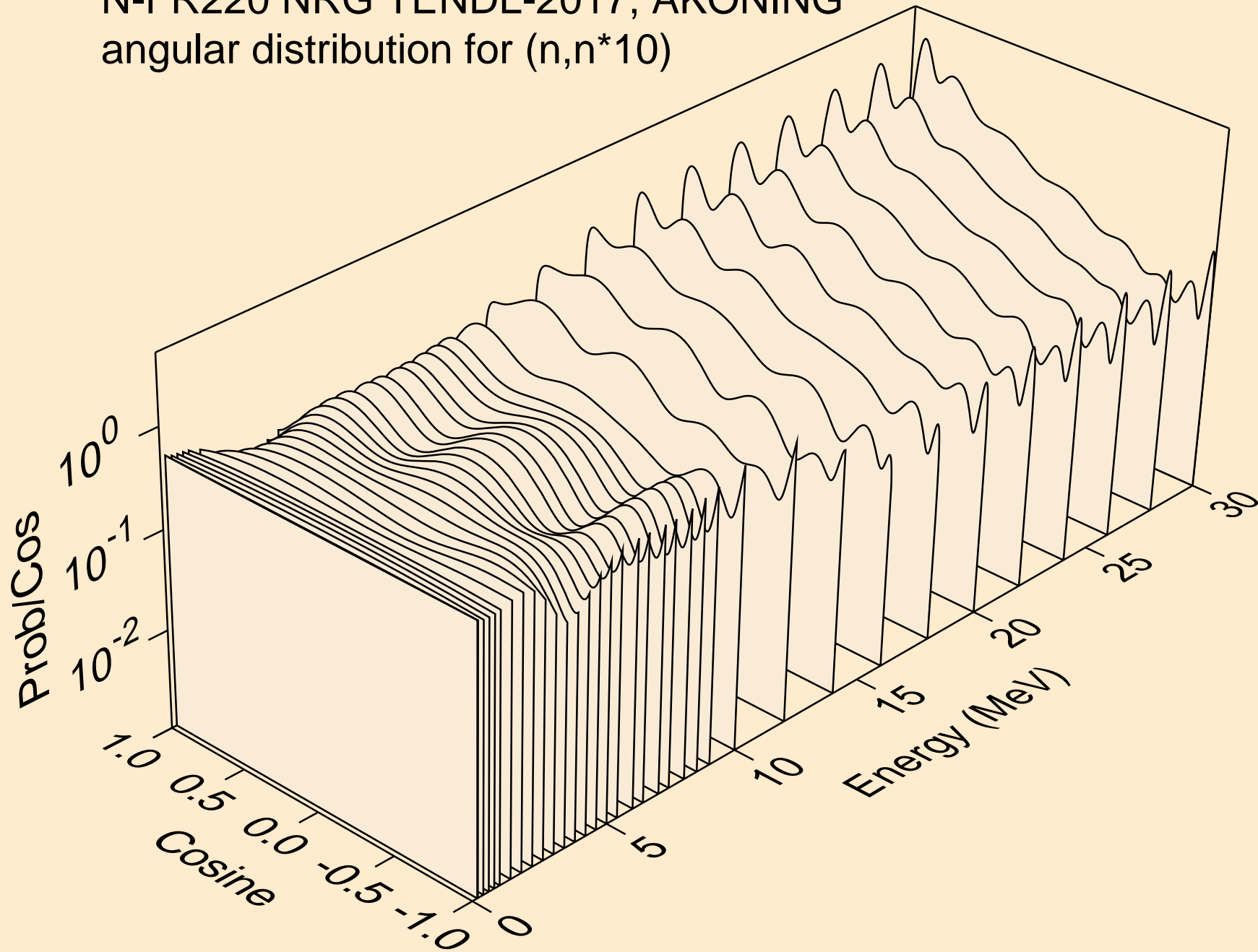


N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*9)



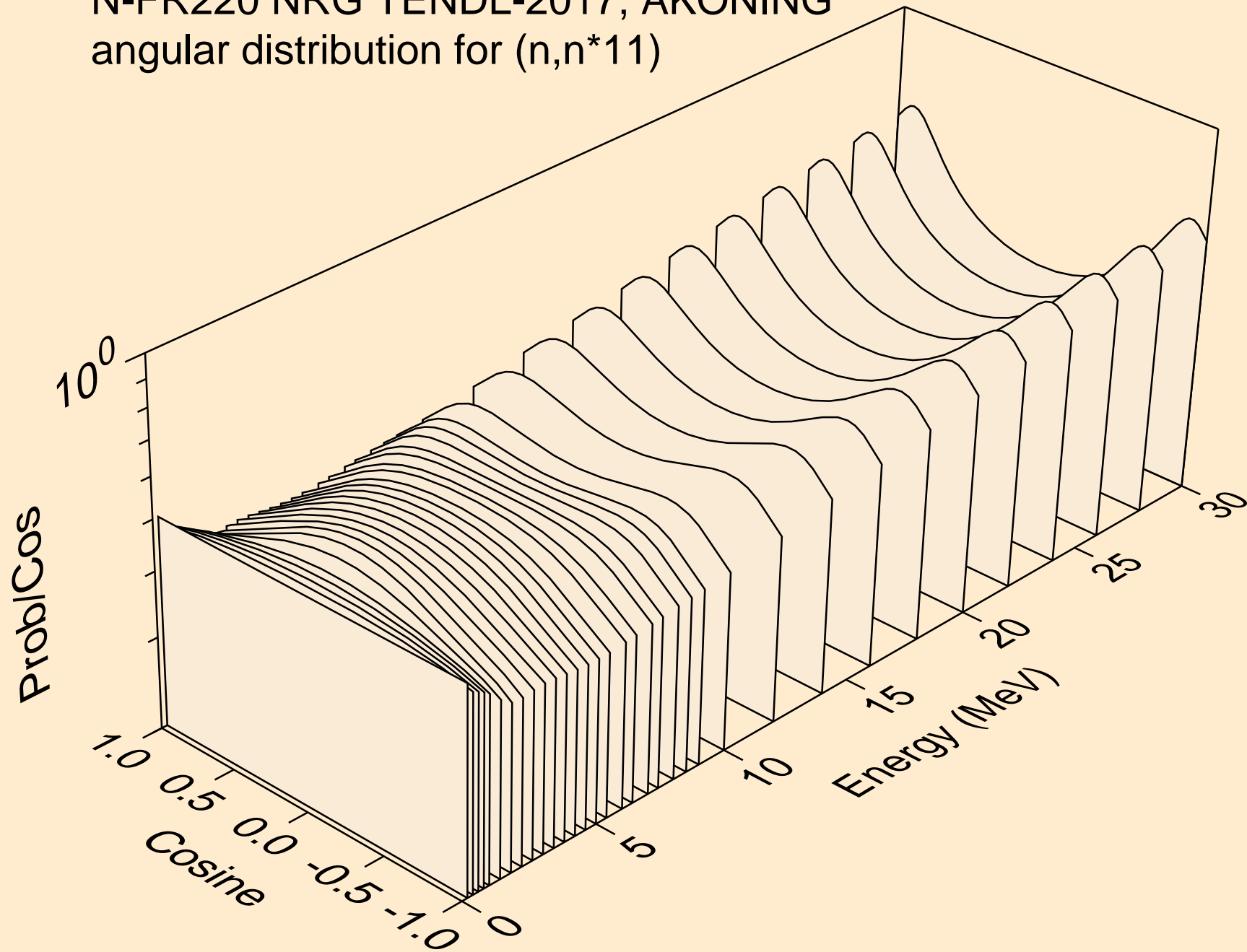


N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*10)

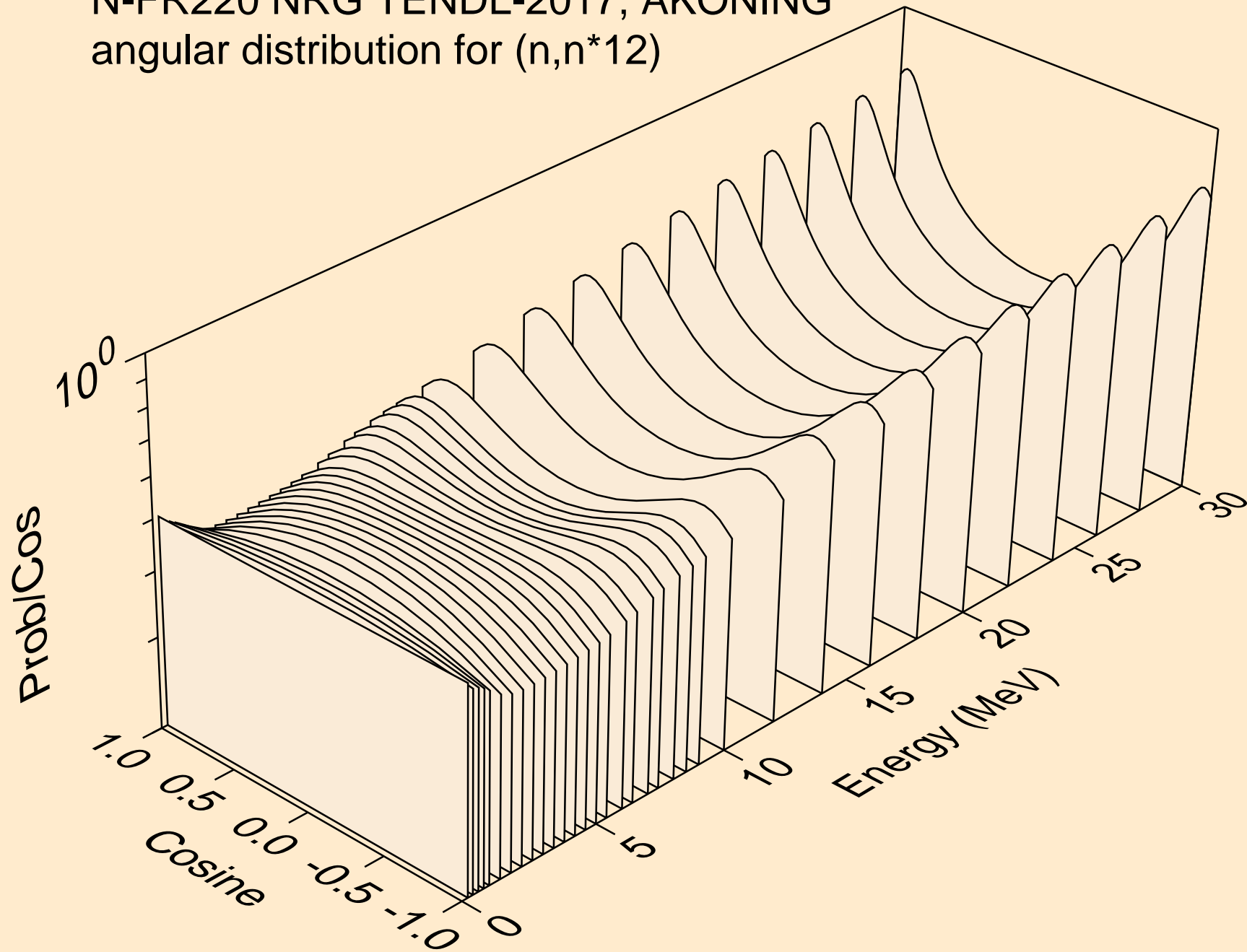




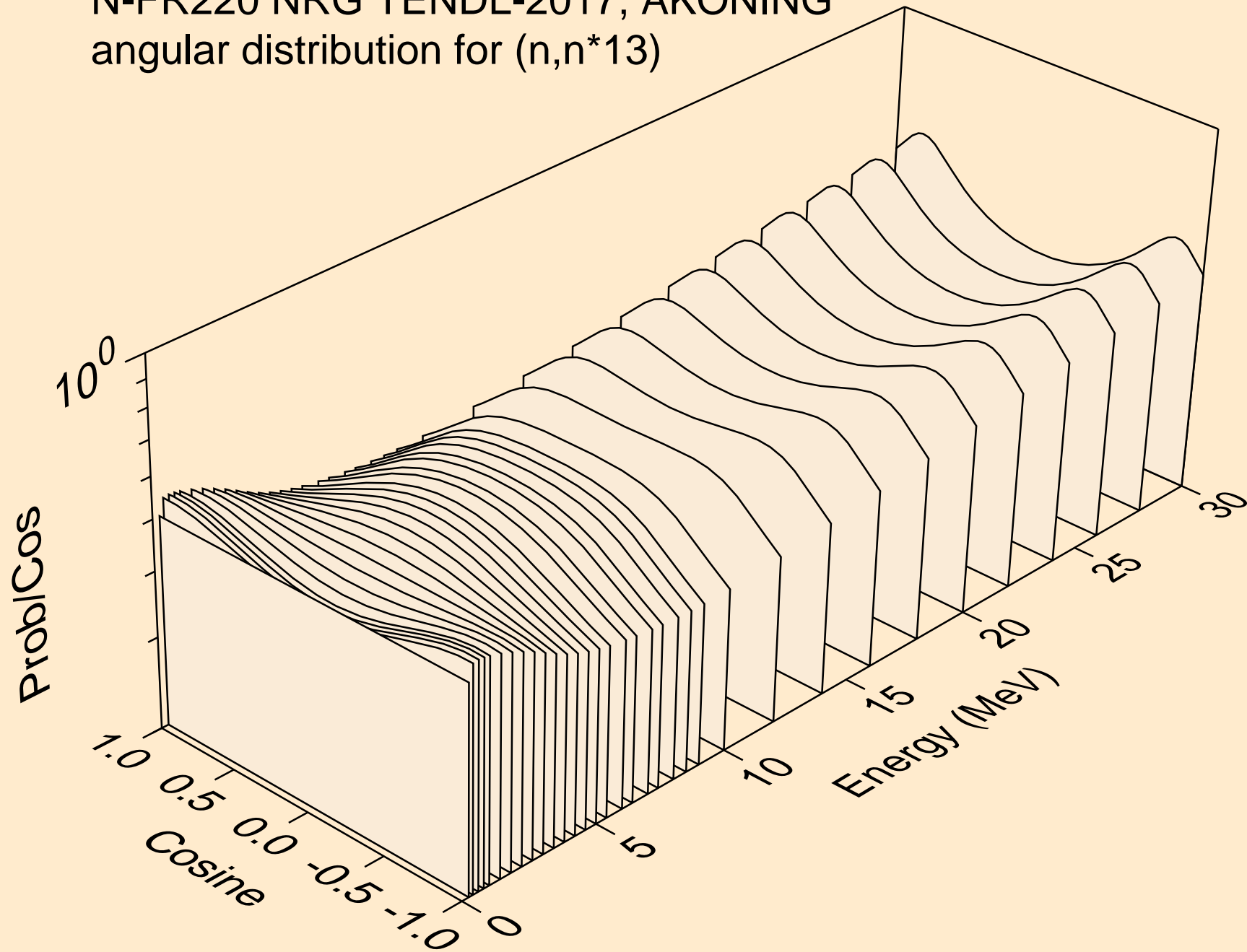
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*11)



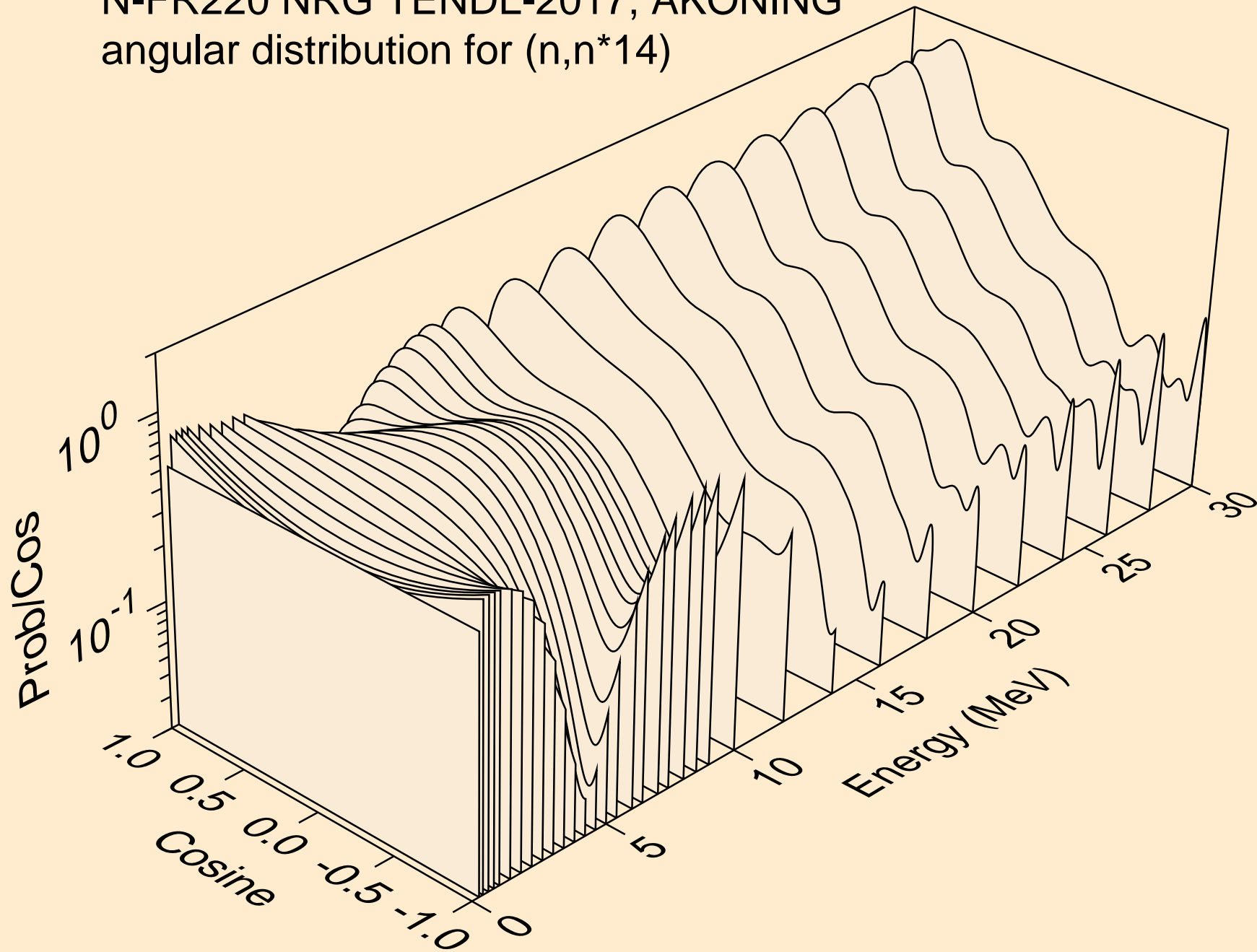
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*12)



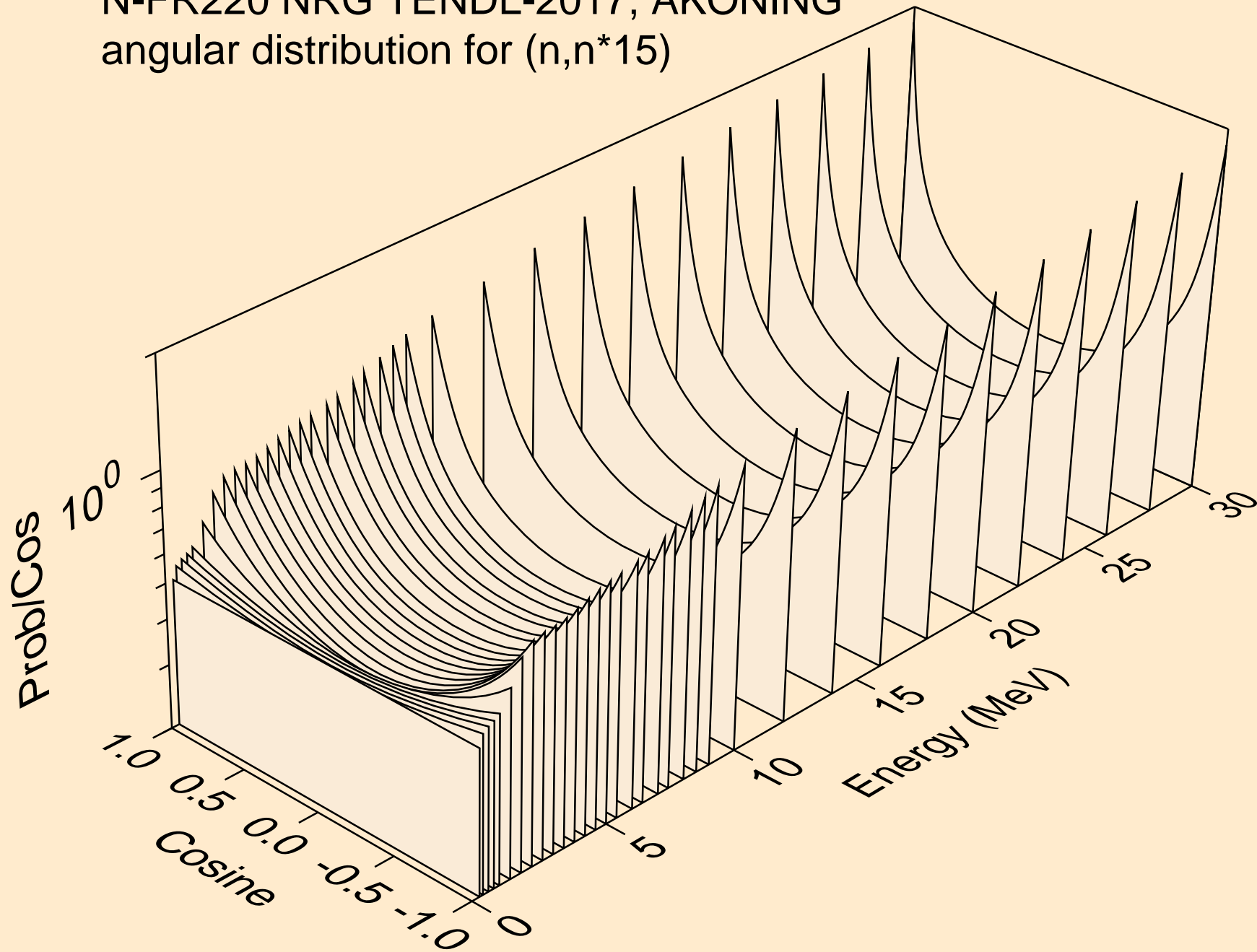
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*13)



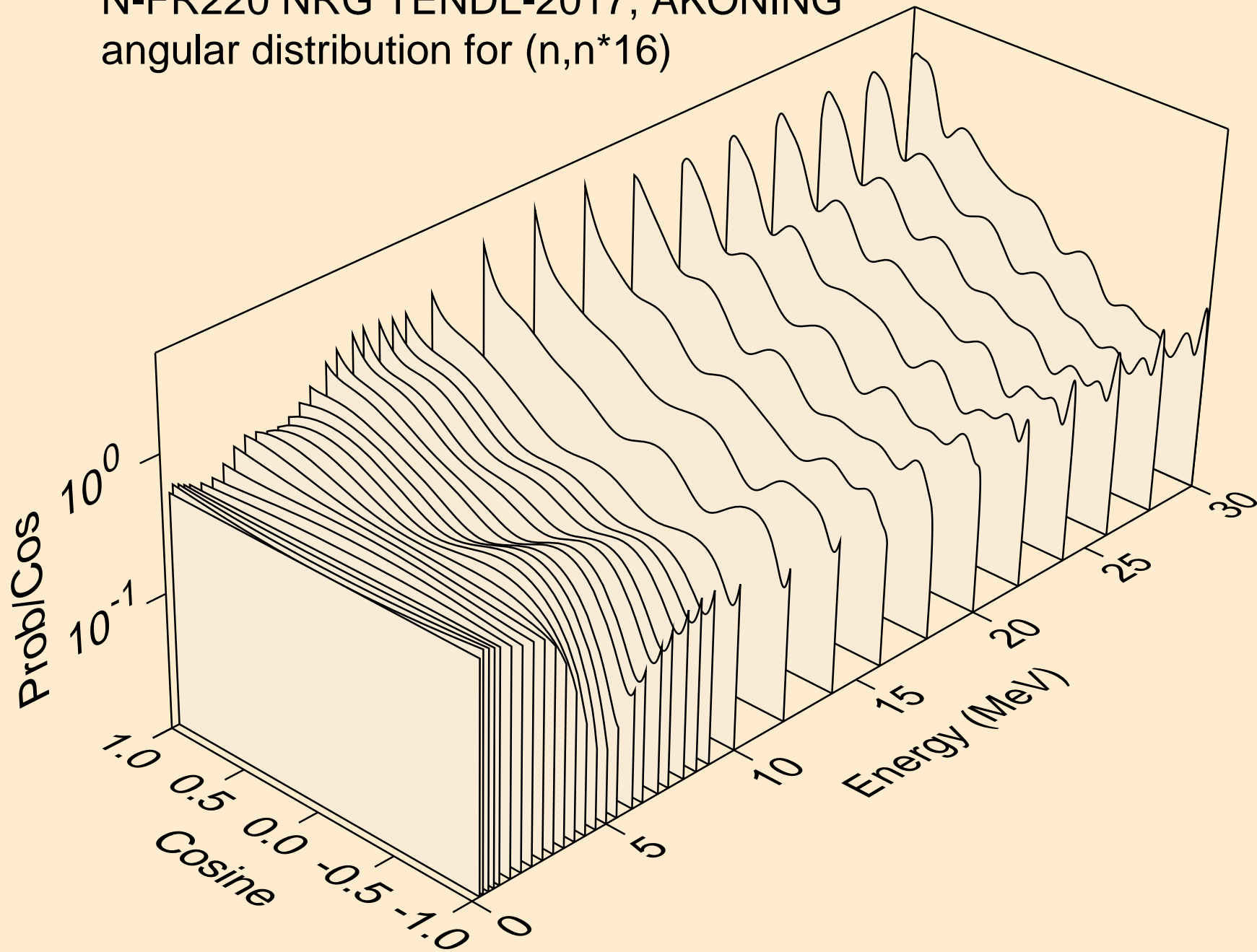
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*14)



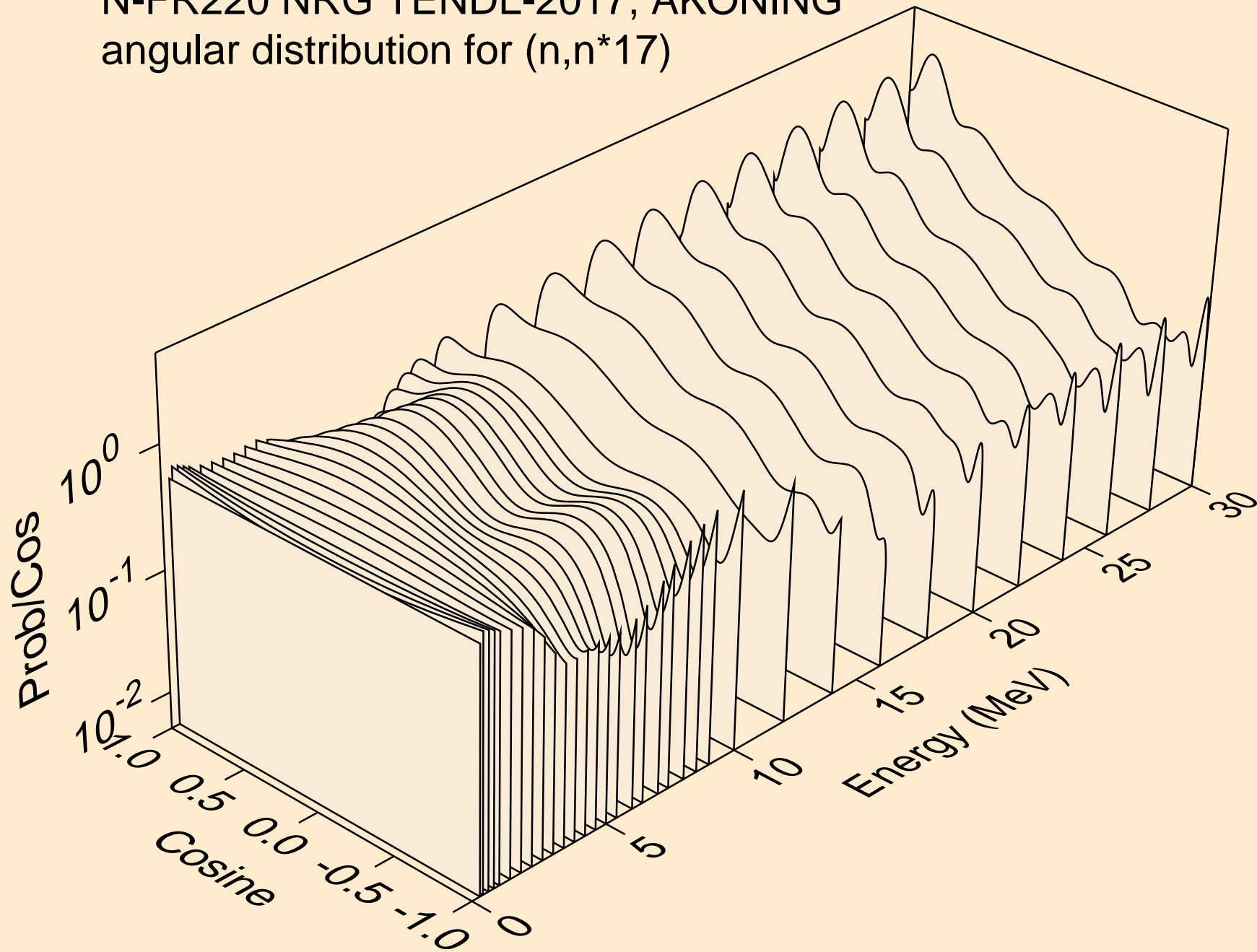
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*15)



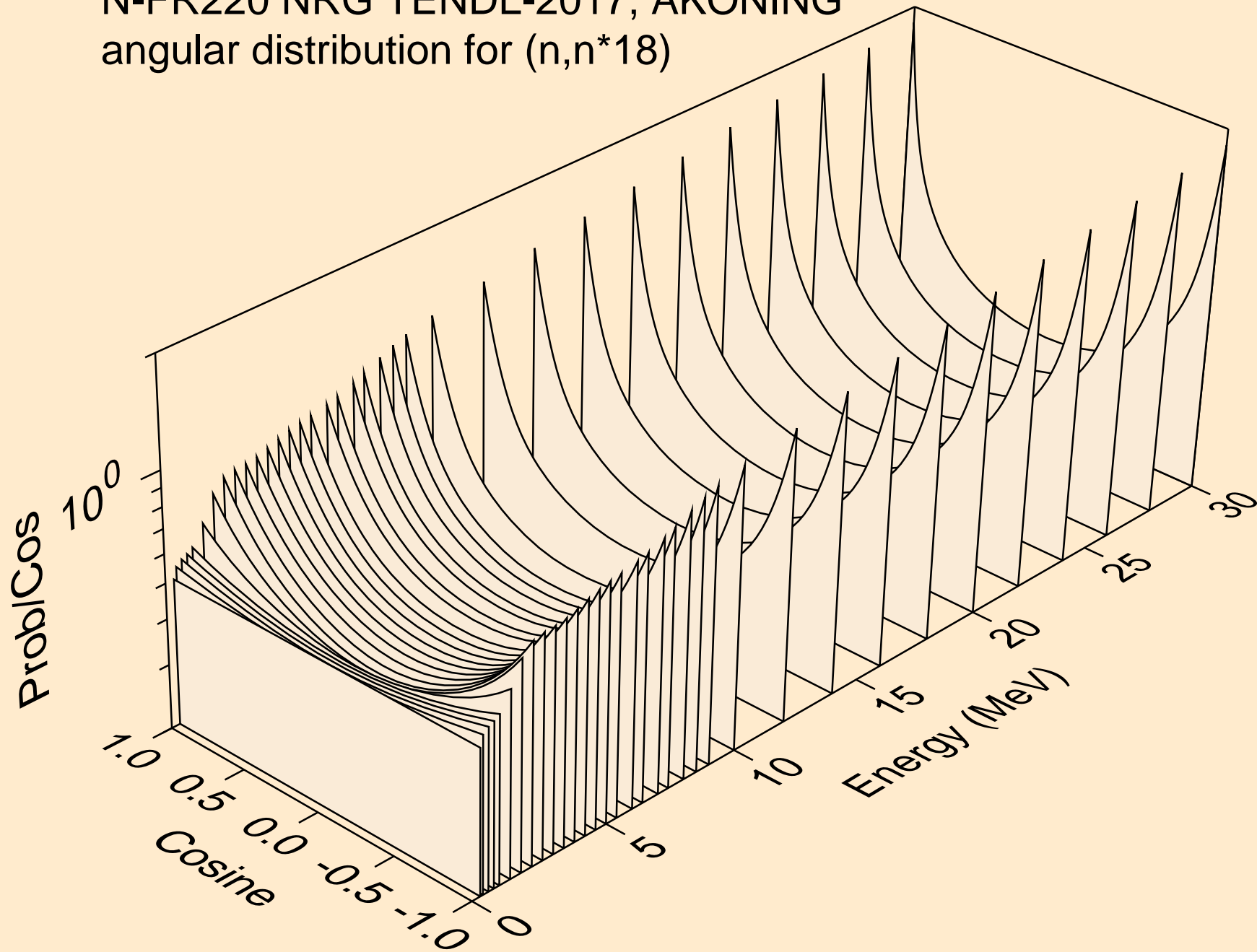
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*16)



N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*17)

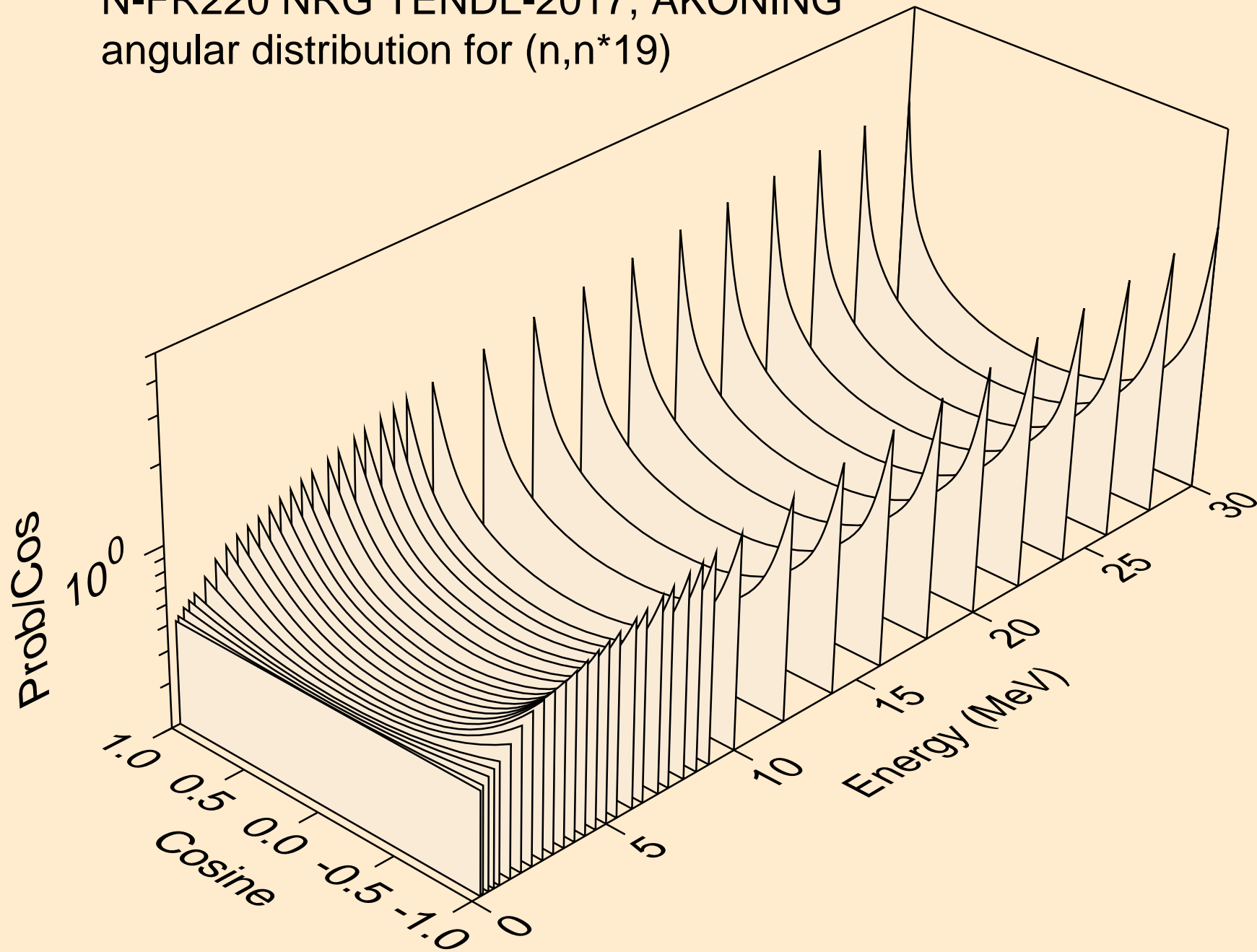


N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*18)

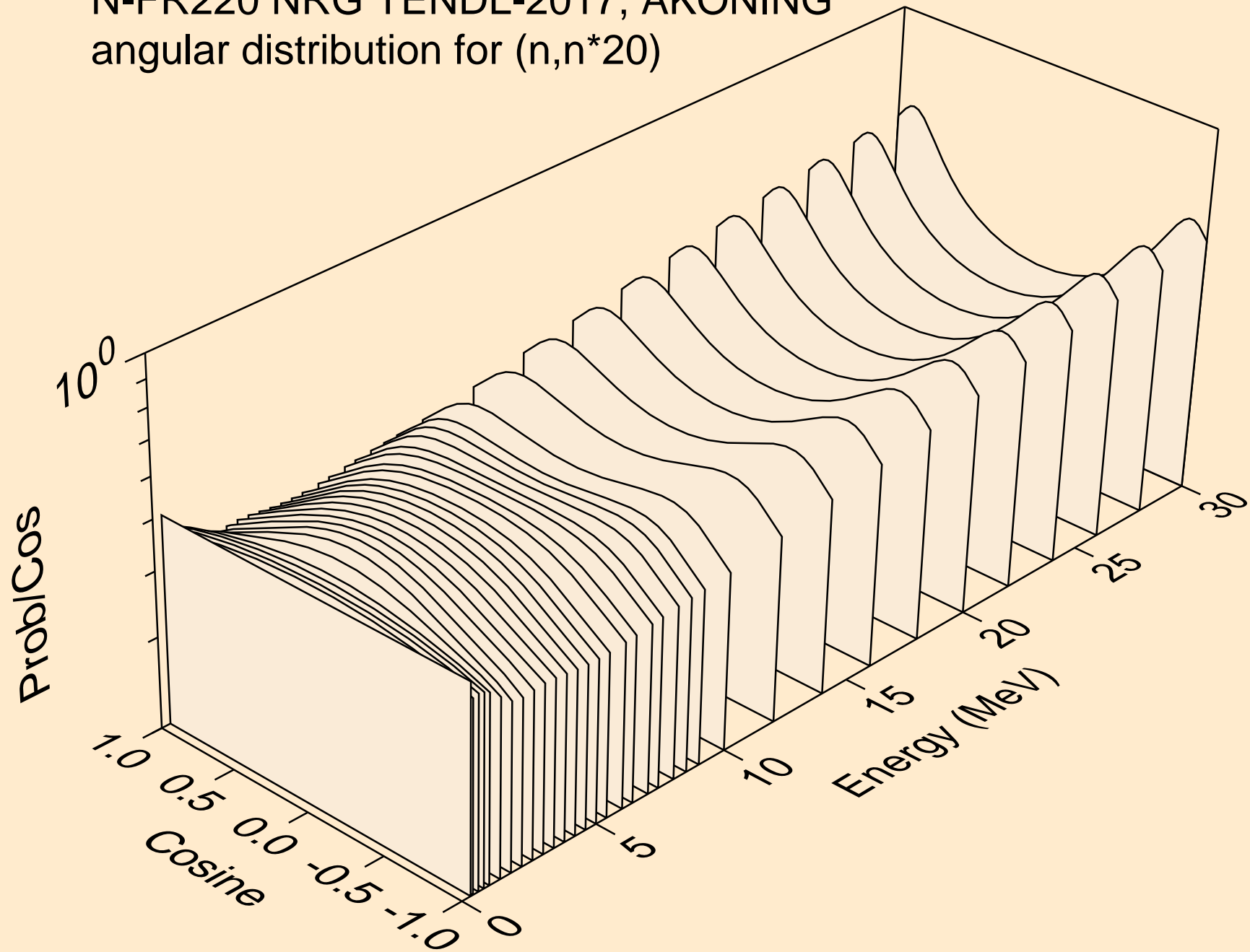




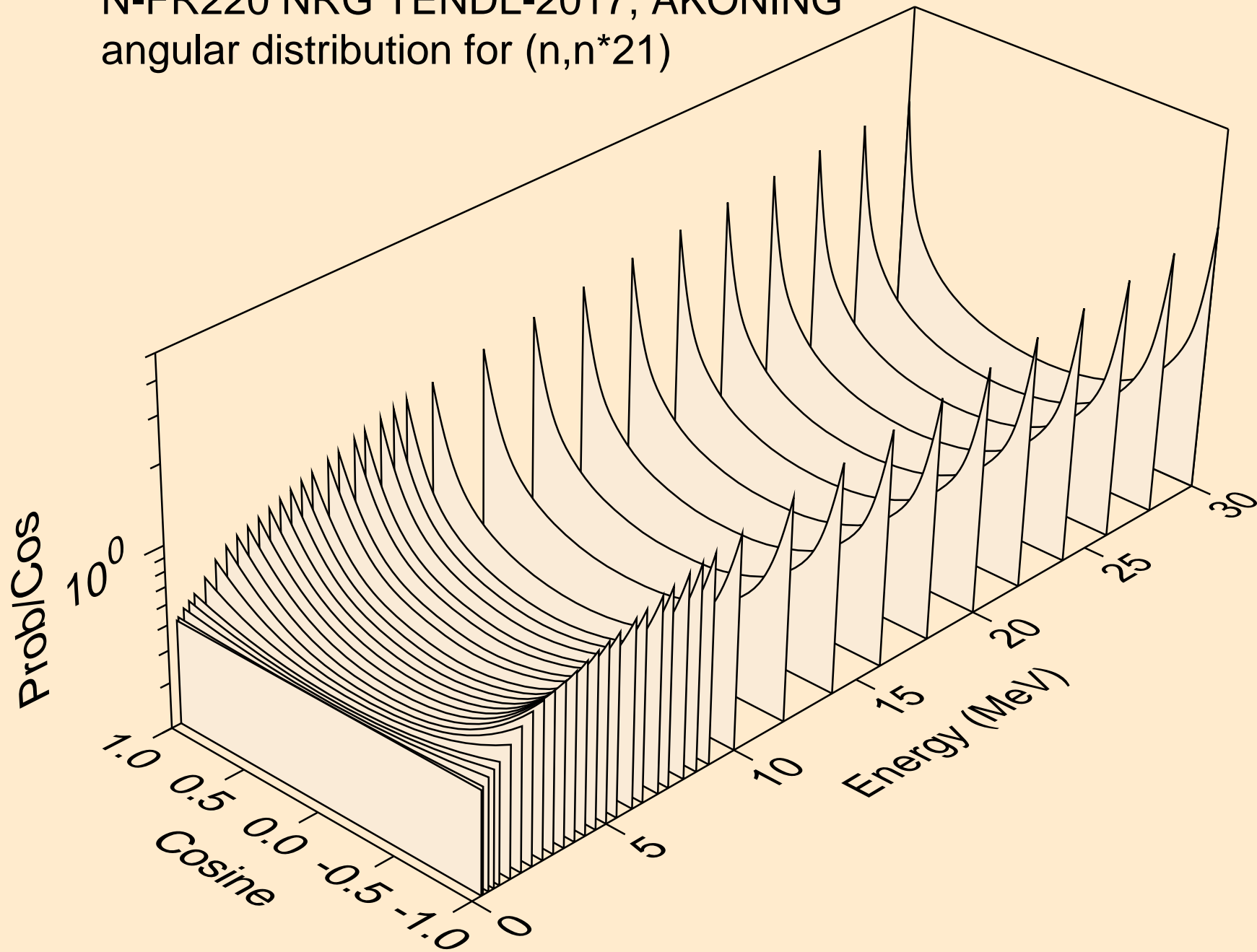
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*19)



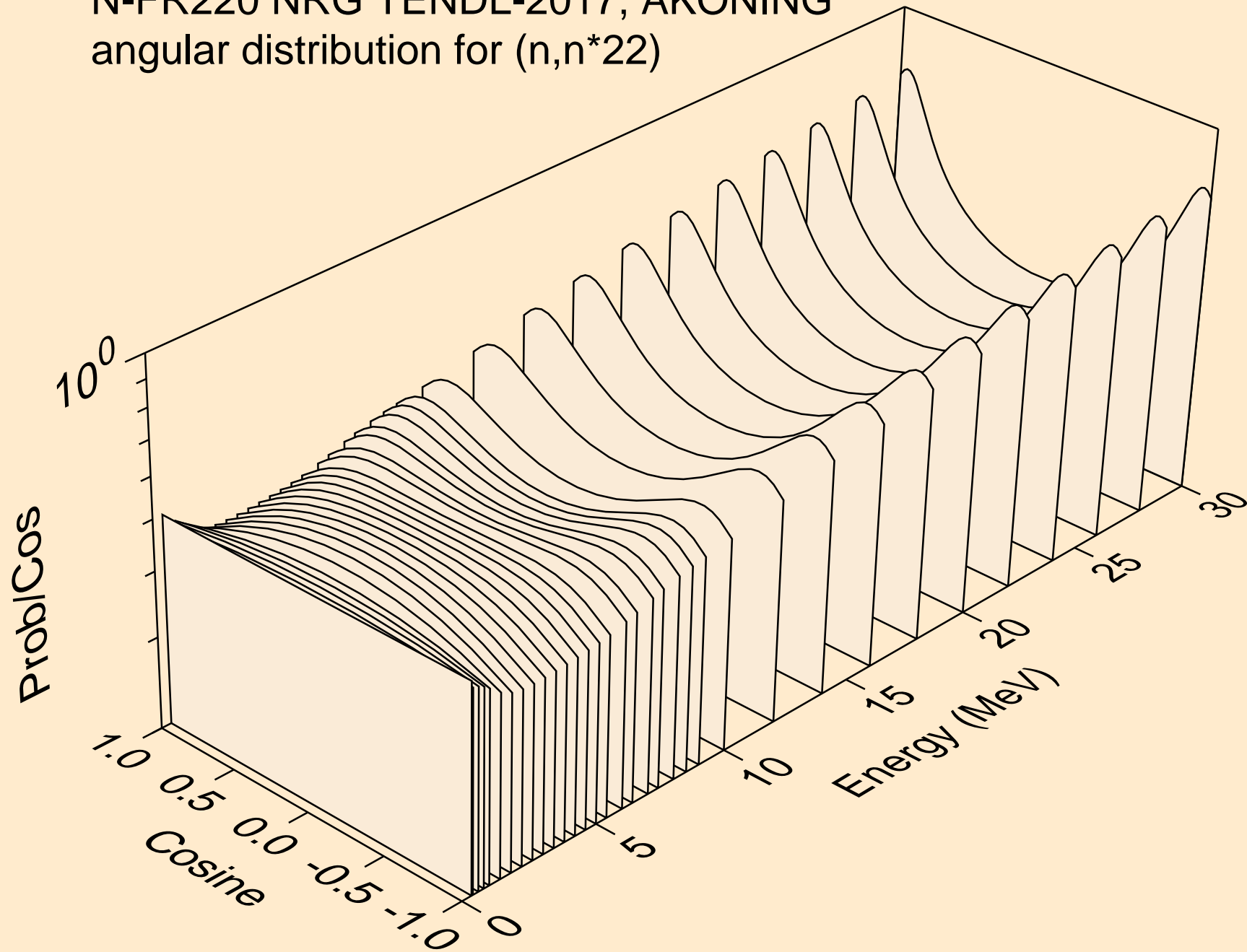
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*20)



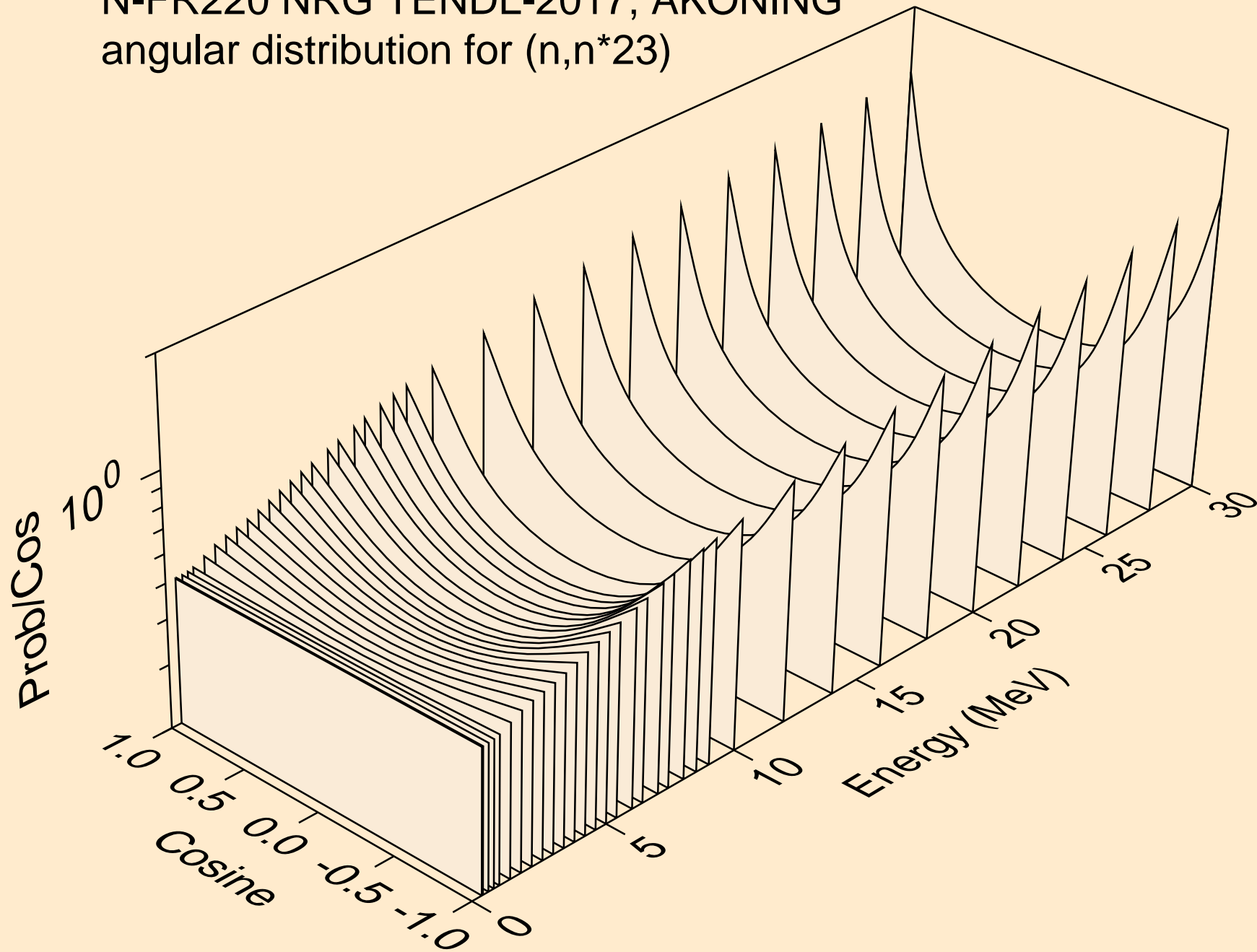
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*21)



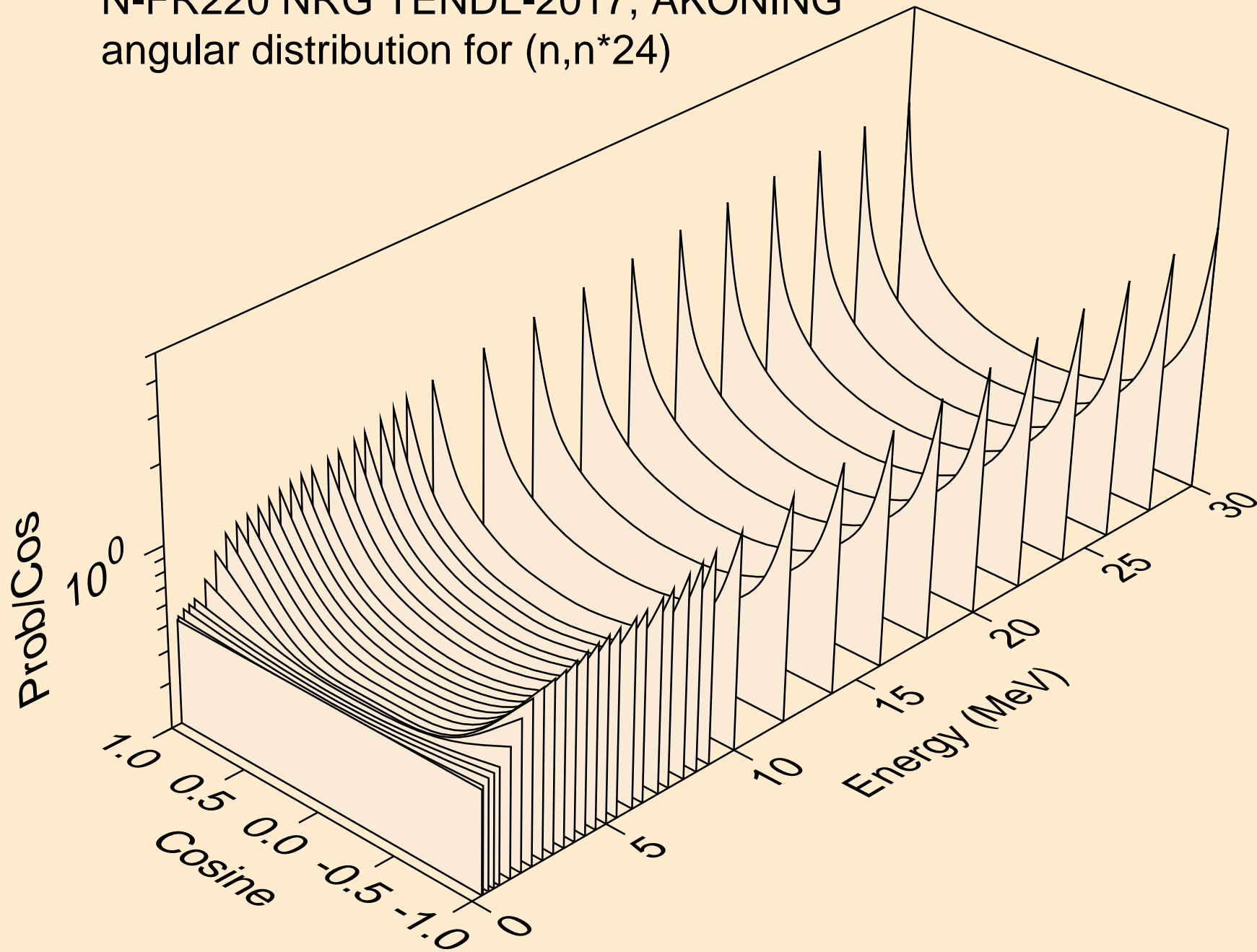
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*22)



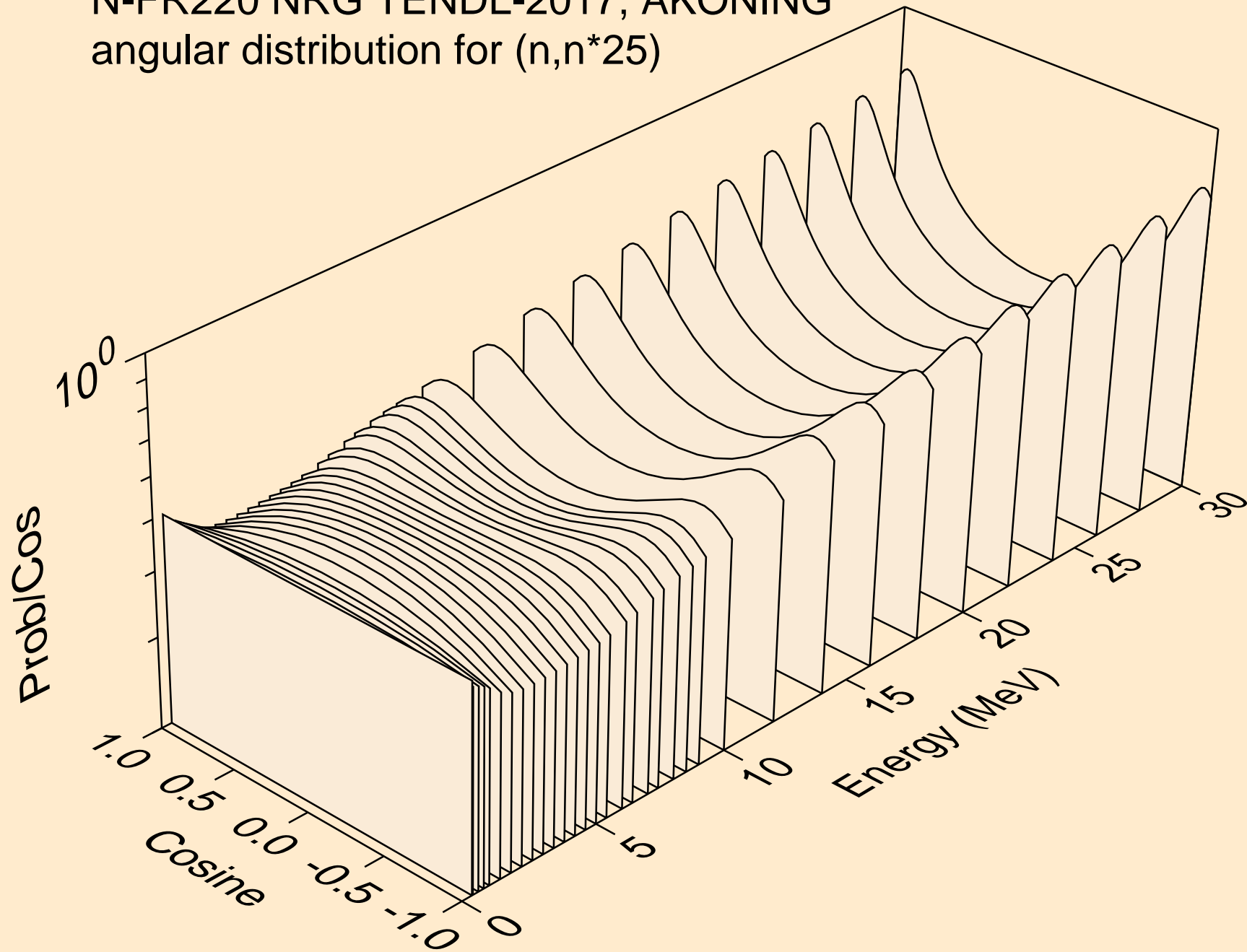
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*23)



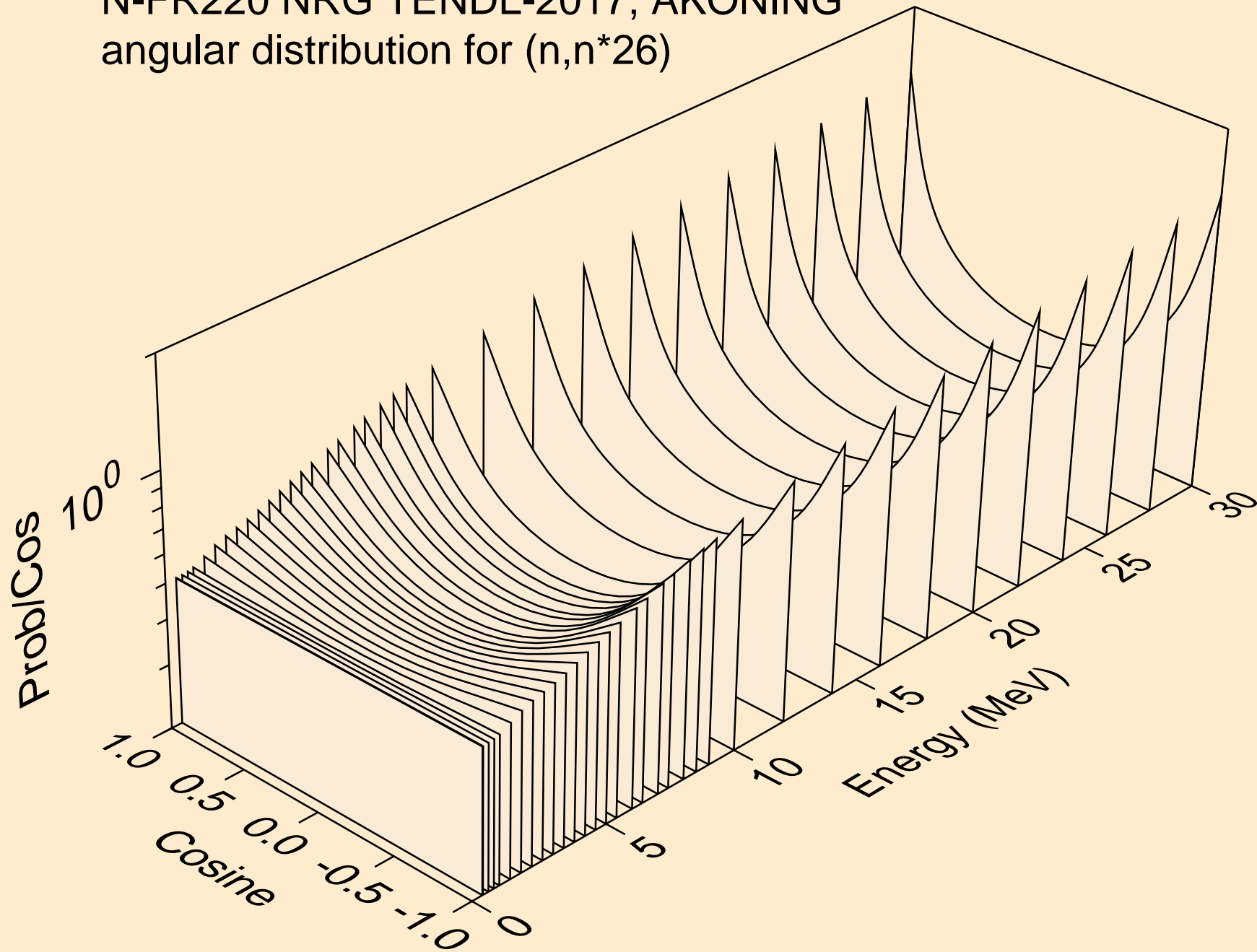
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*24)



N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*25)

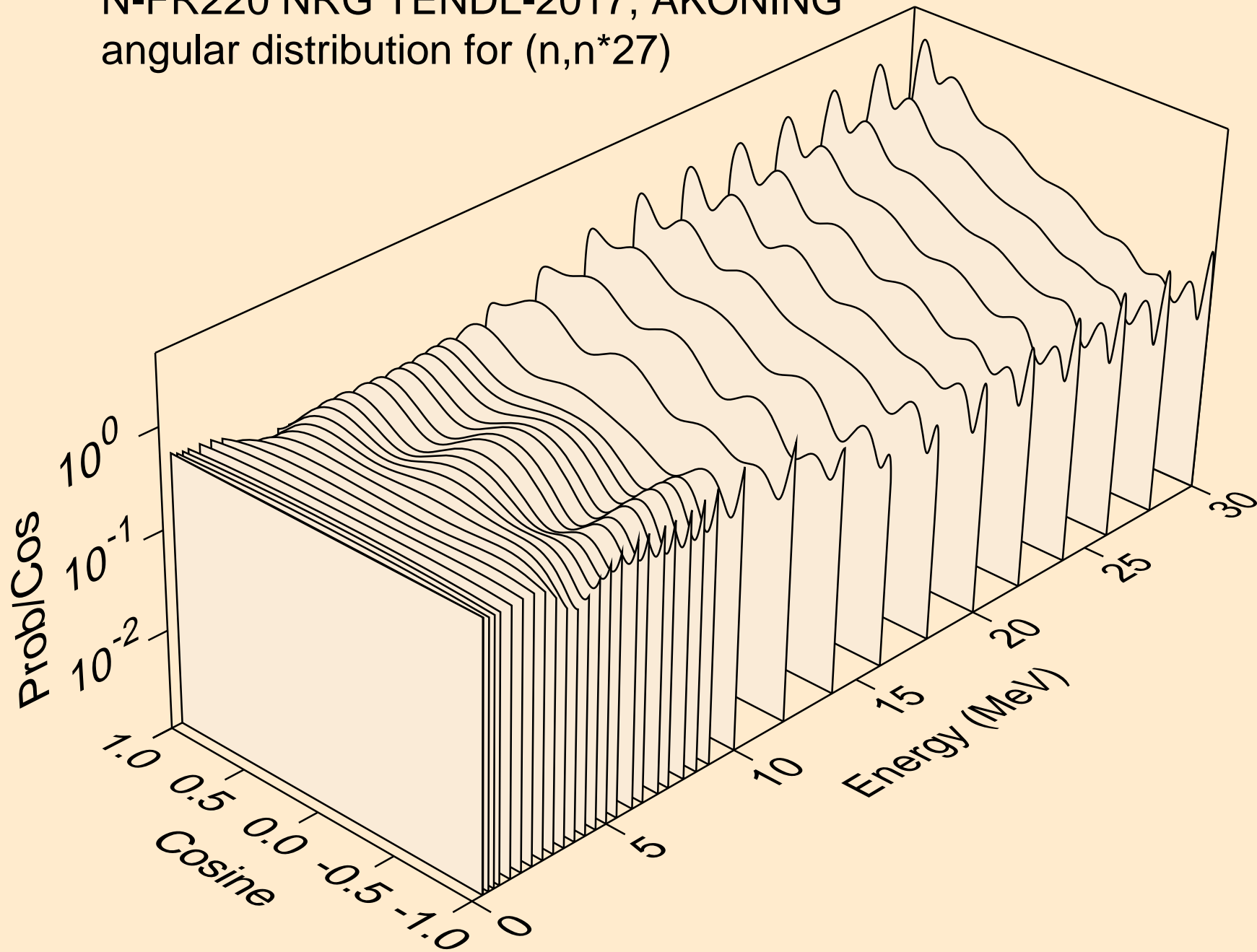


N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*26)

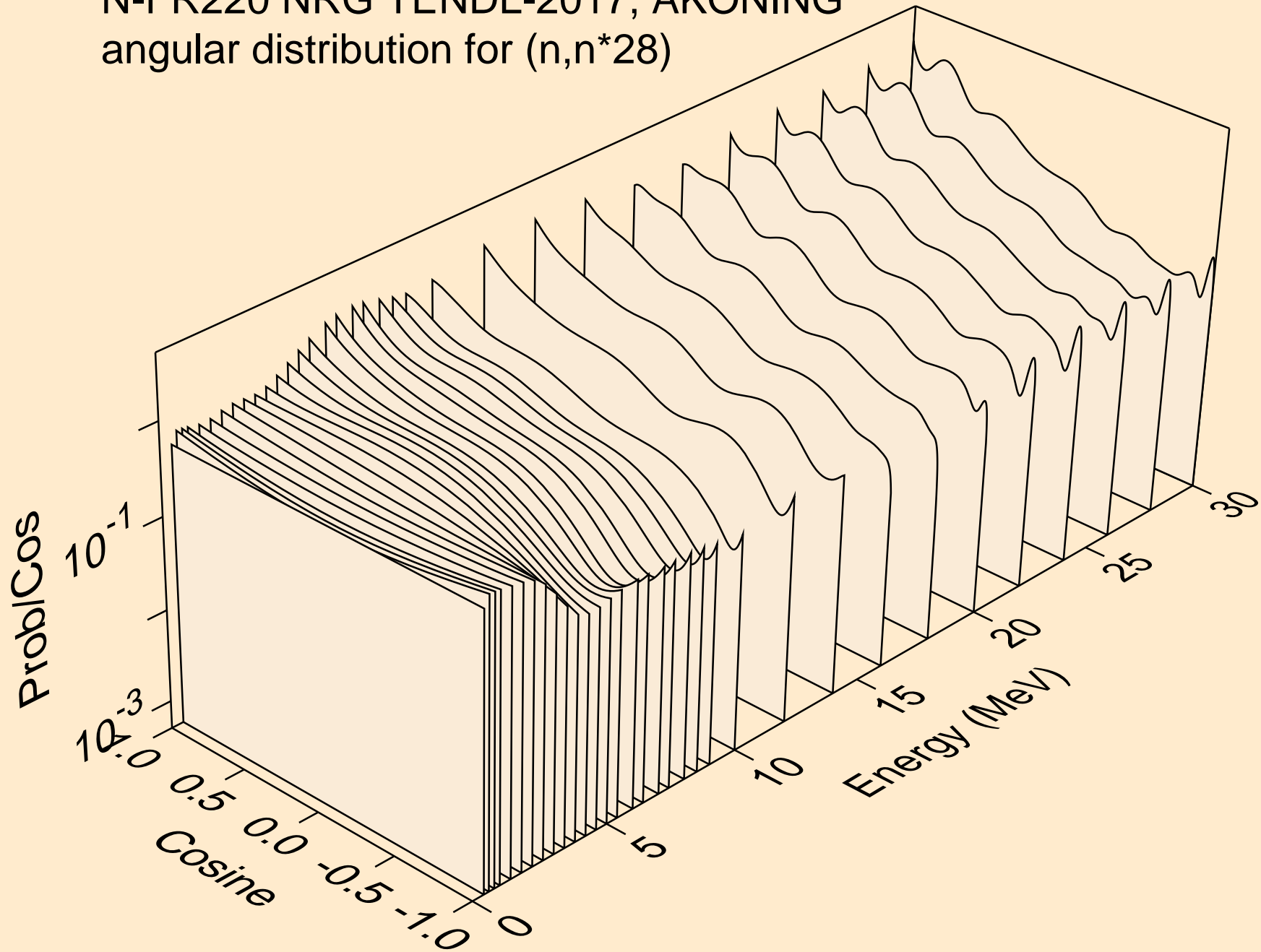




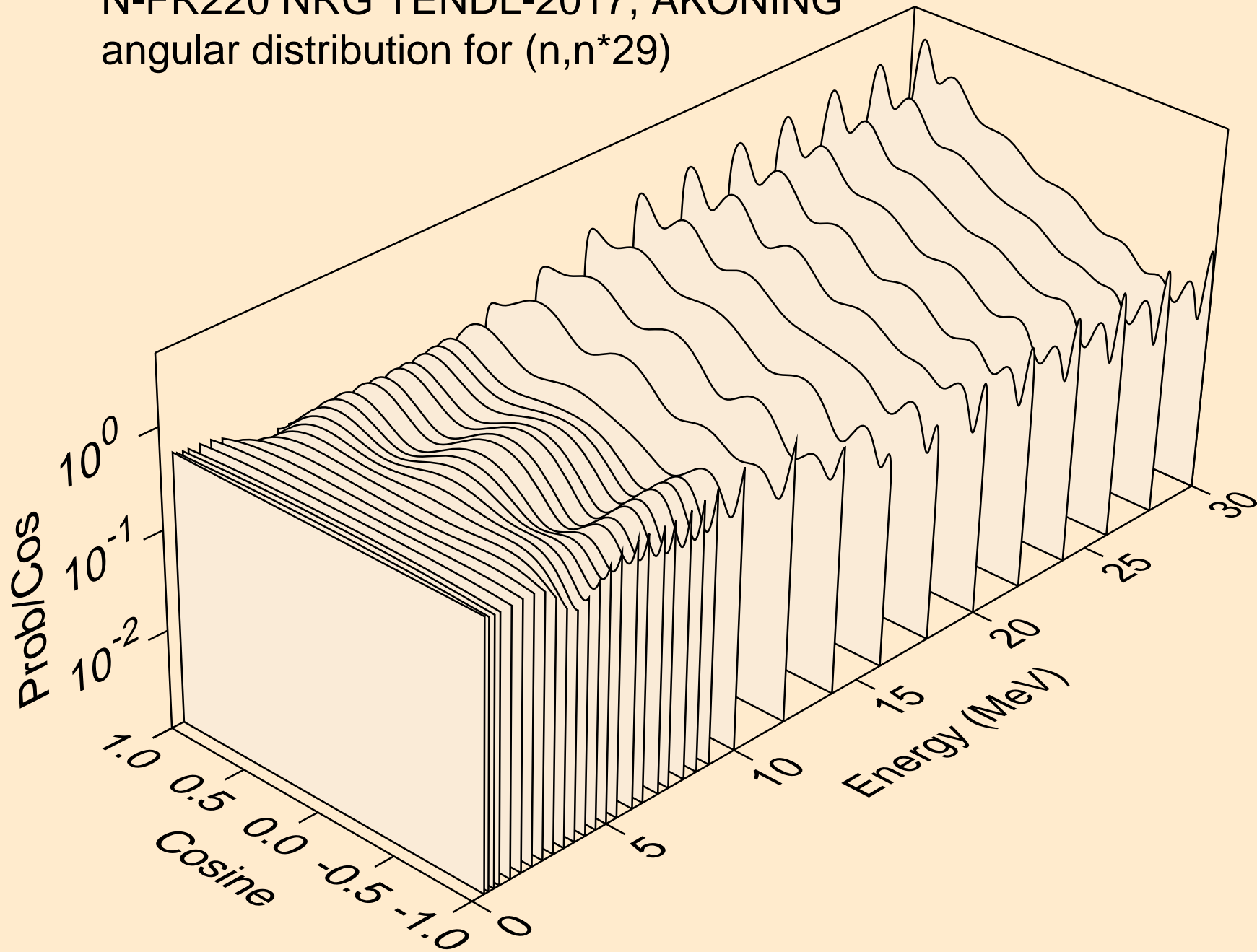
N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*27)



N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*28)

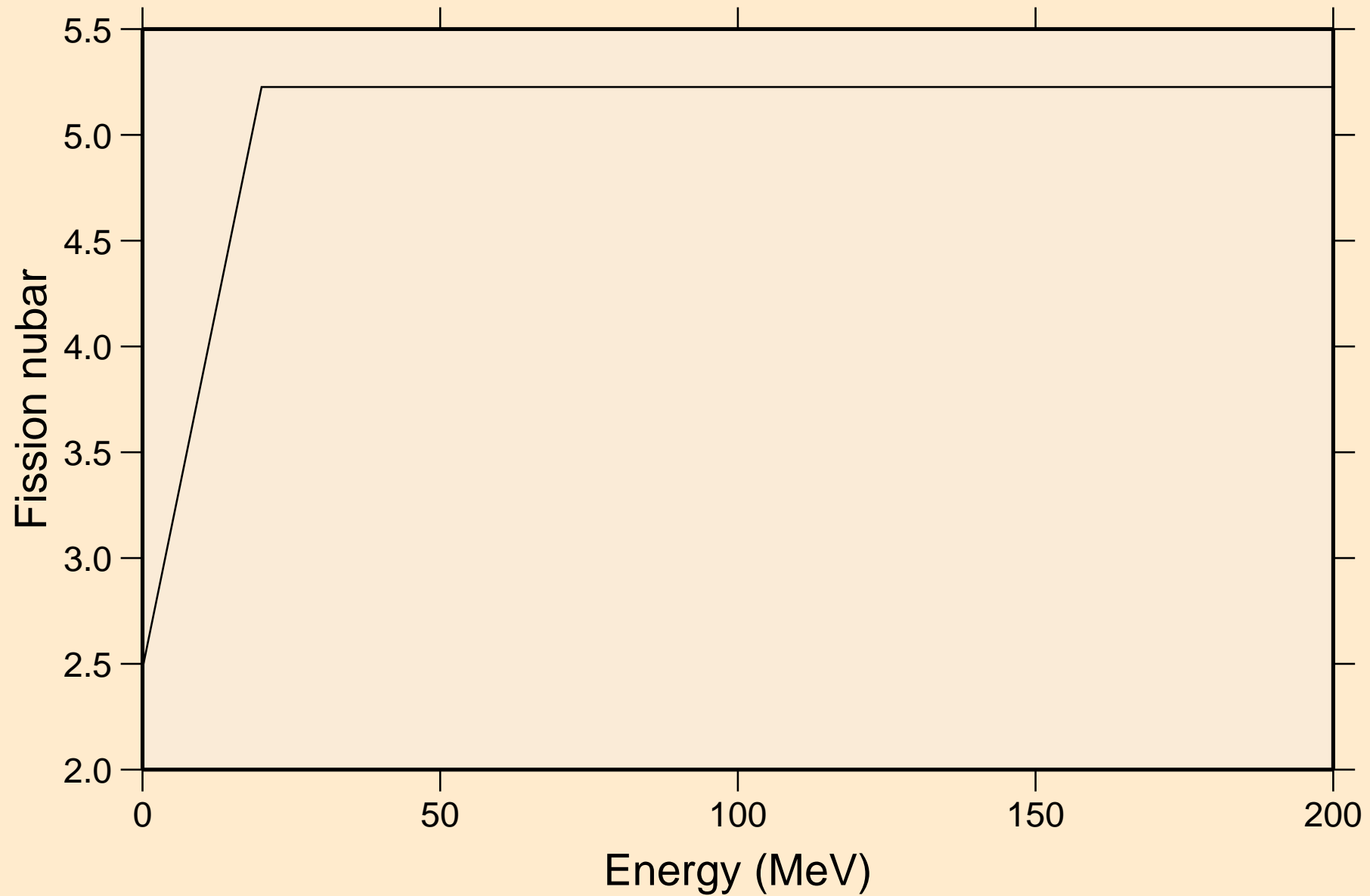


N-FR220 NRG TENDL-2017, AKONING  
angular distribution for (n,n\*29)

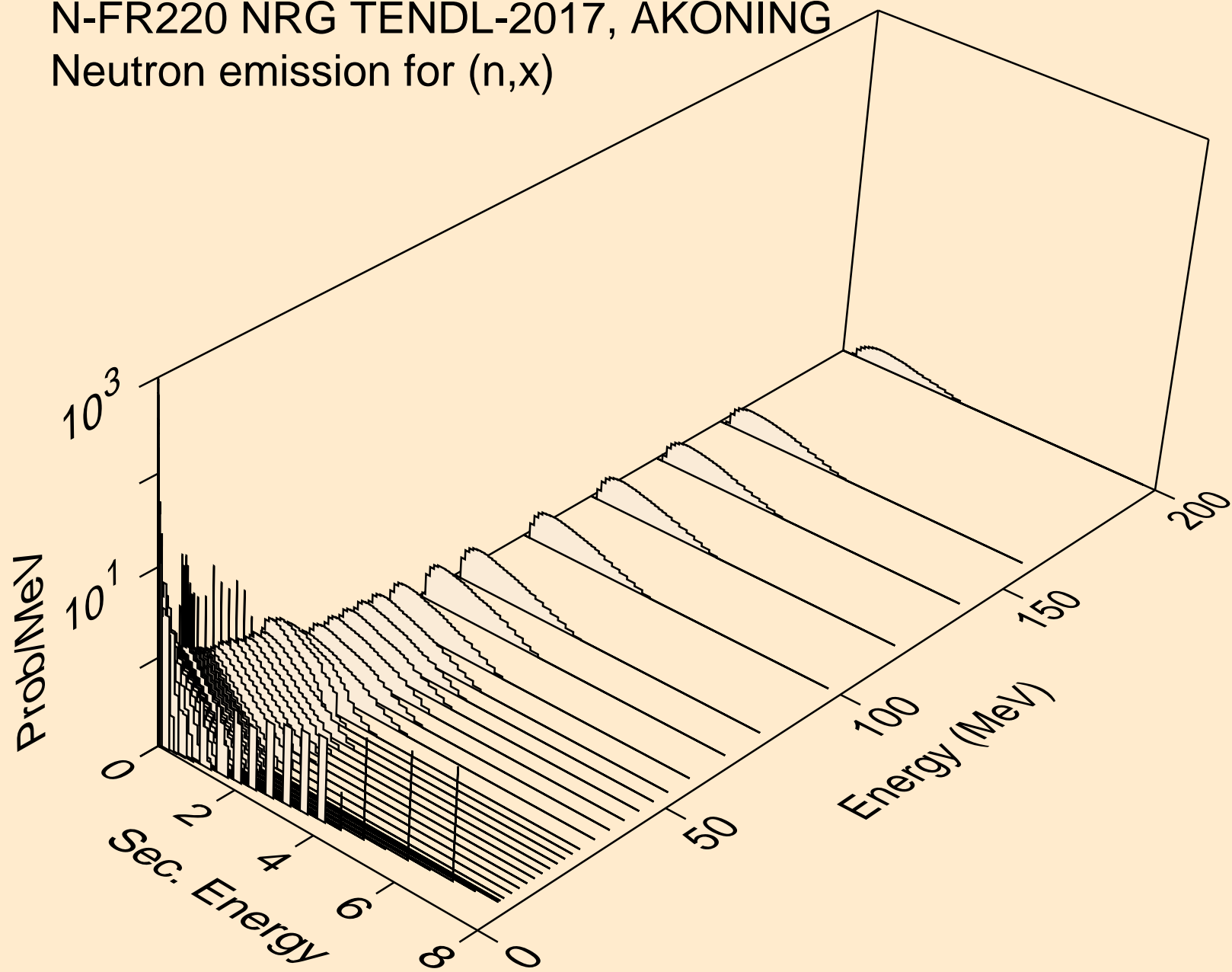


# N-FR220 NRG TENDL-2017, AKONING

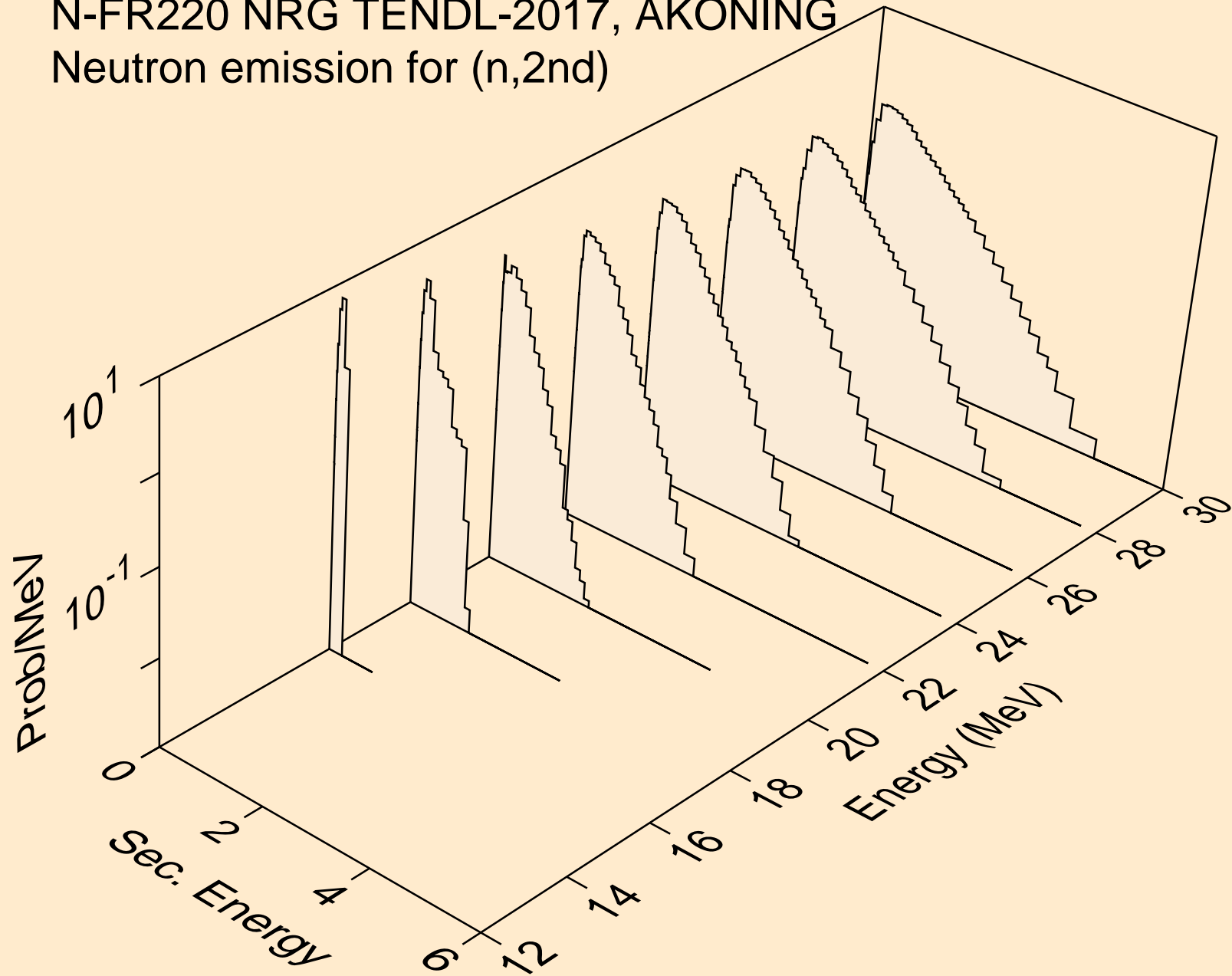
Total fission nubar



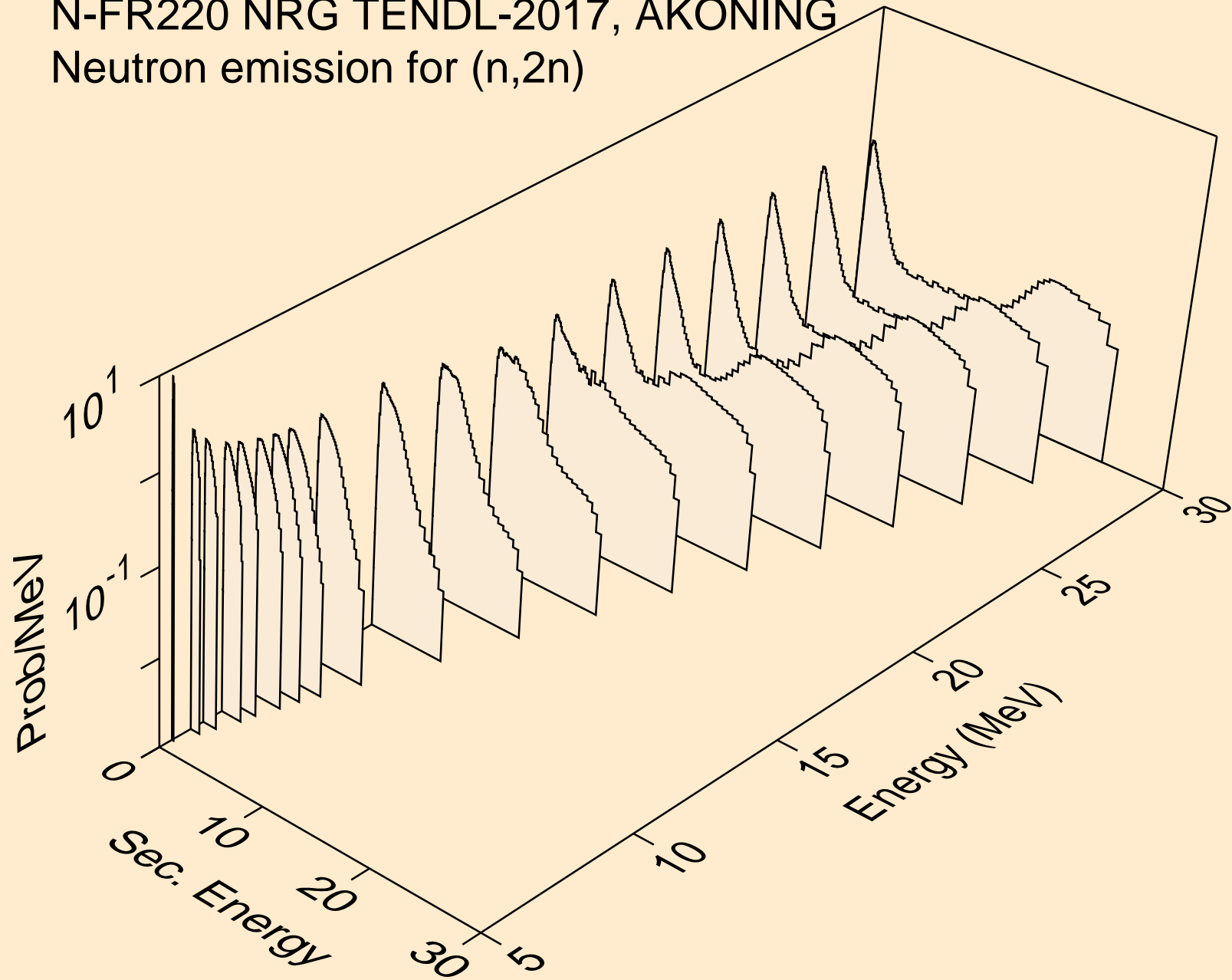
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,x)



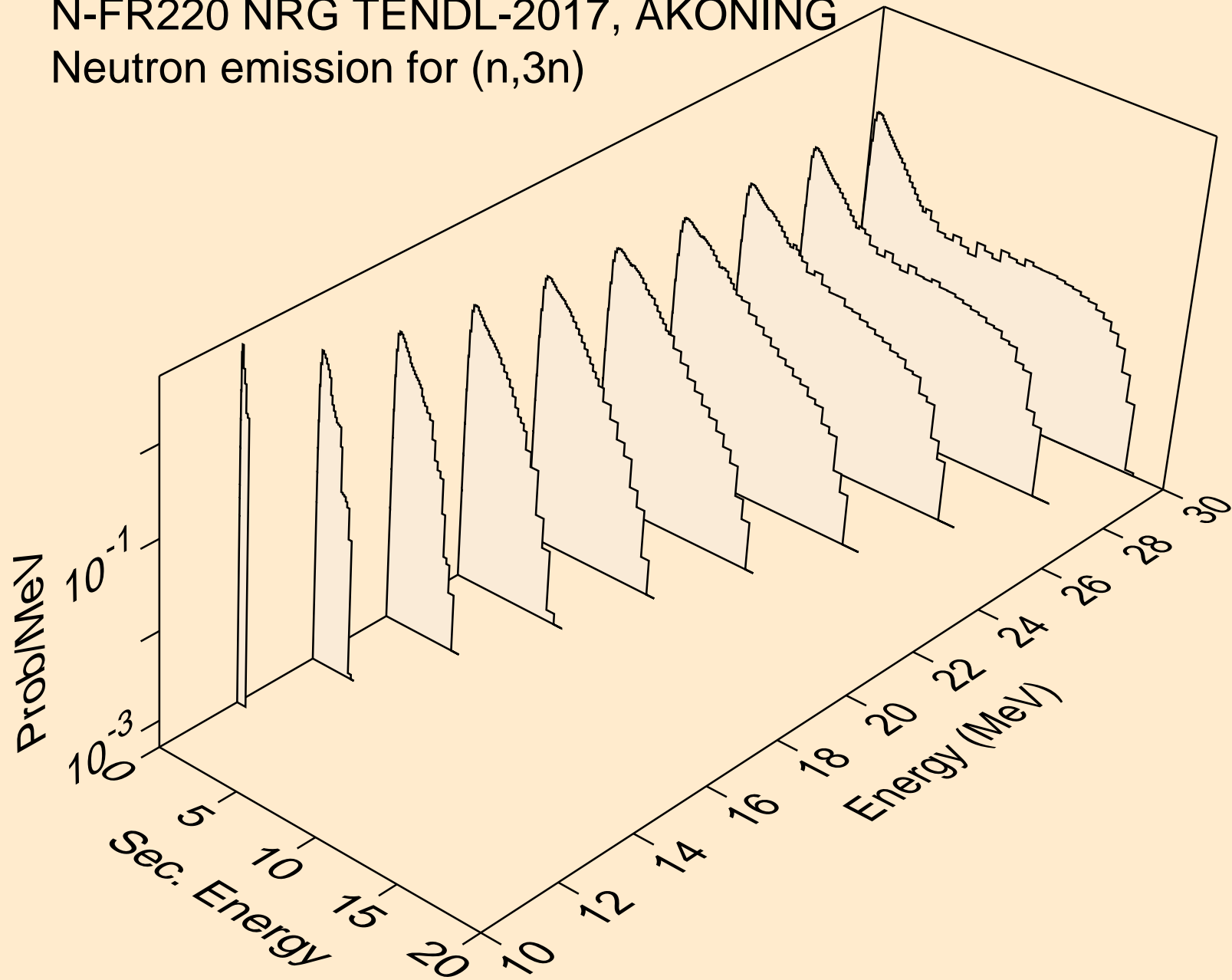
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,2nd)



N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)

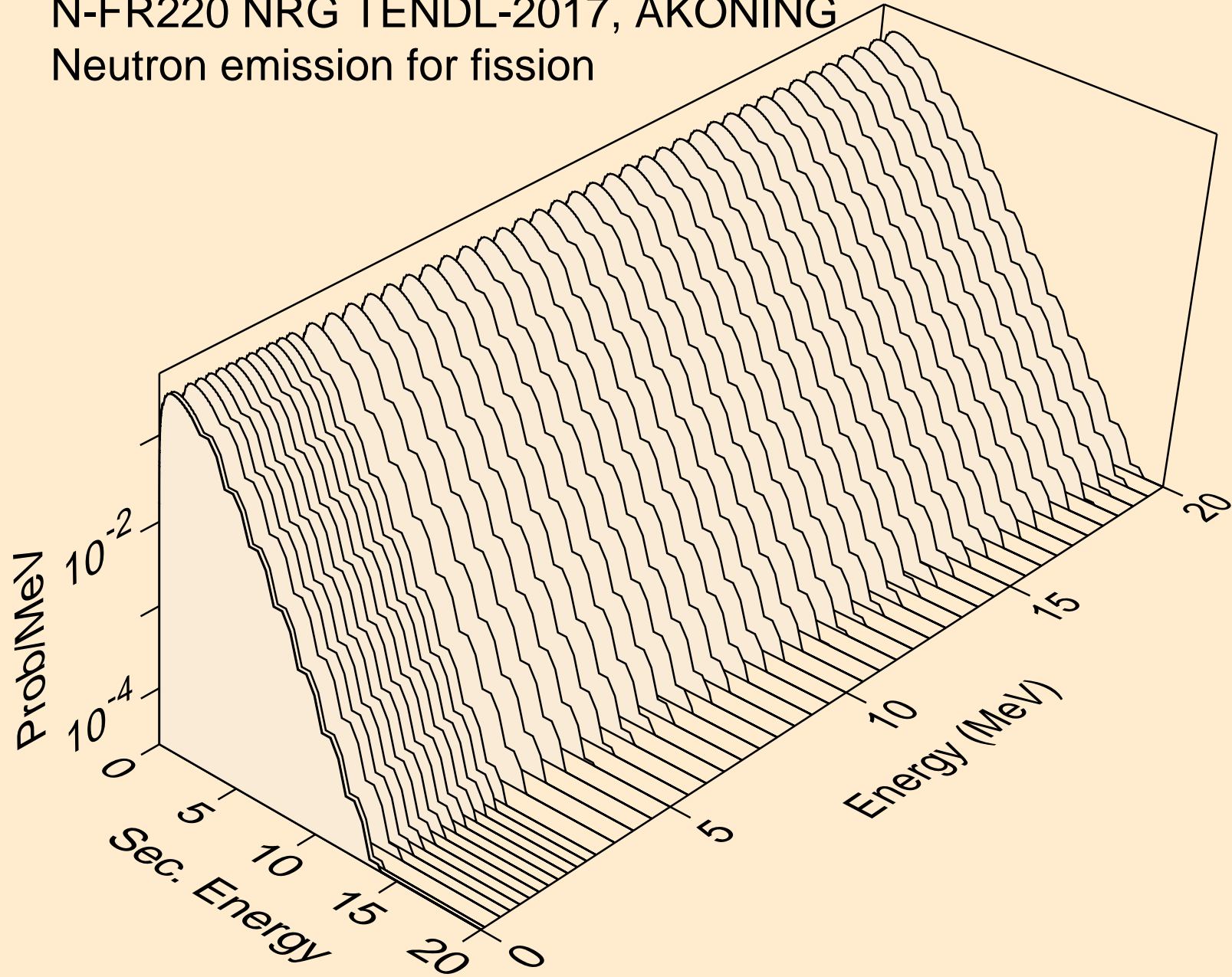


N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)

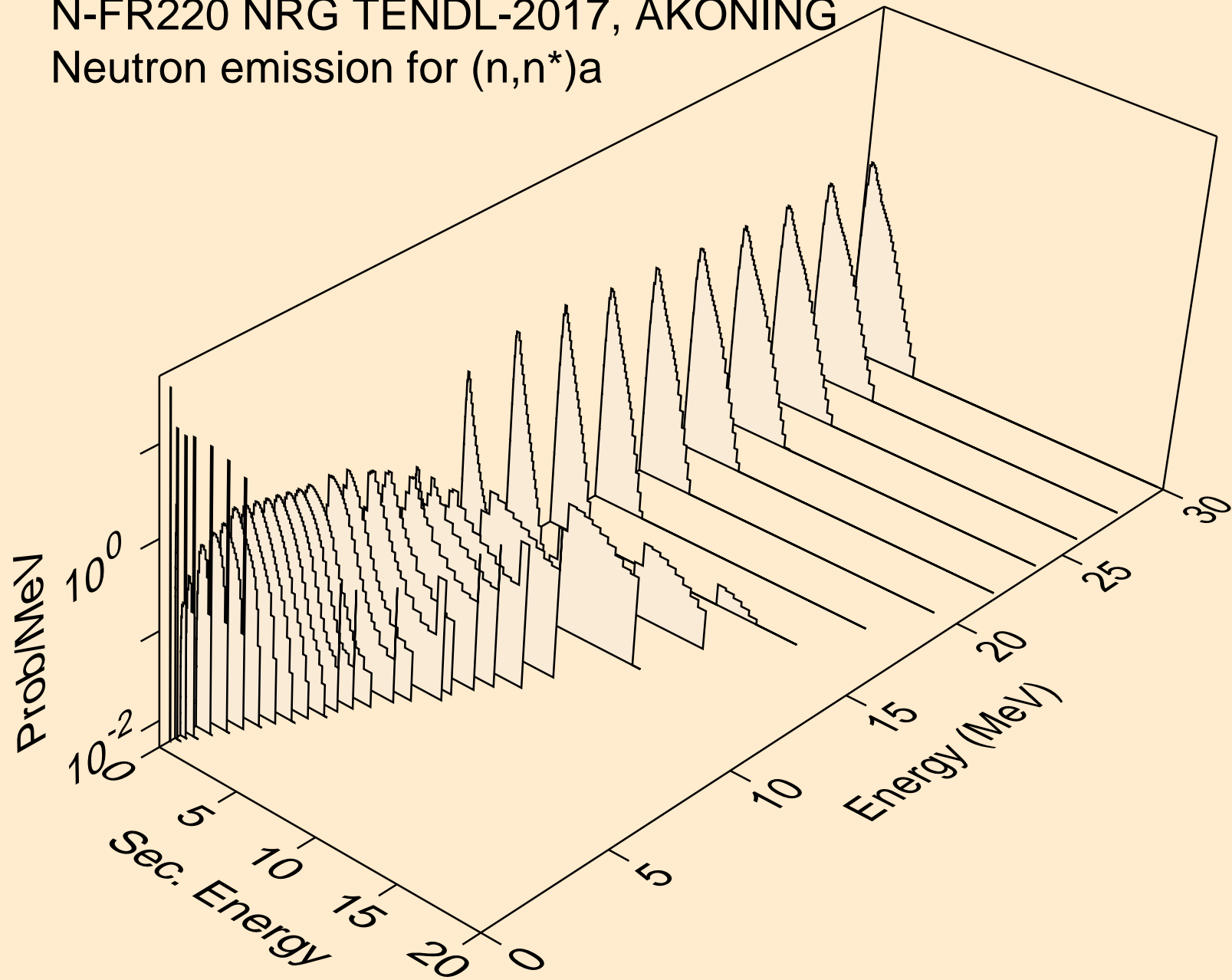




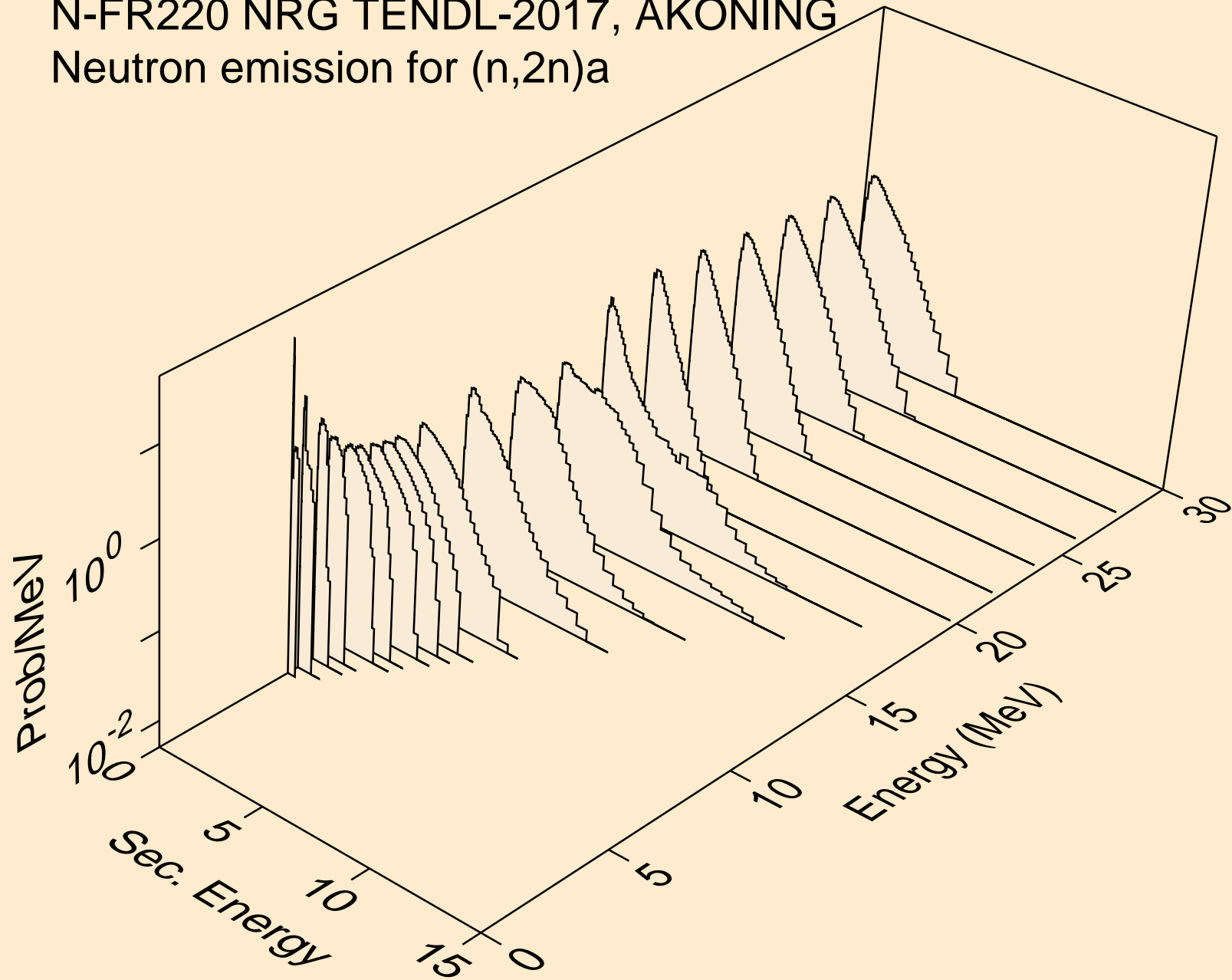
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for fission



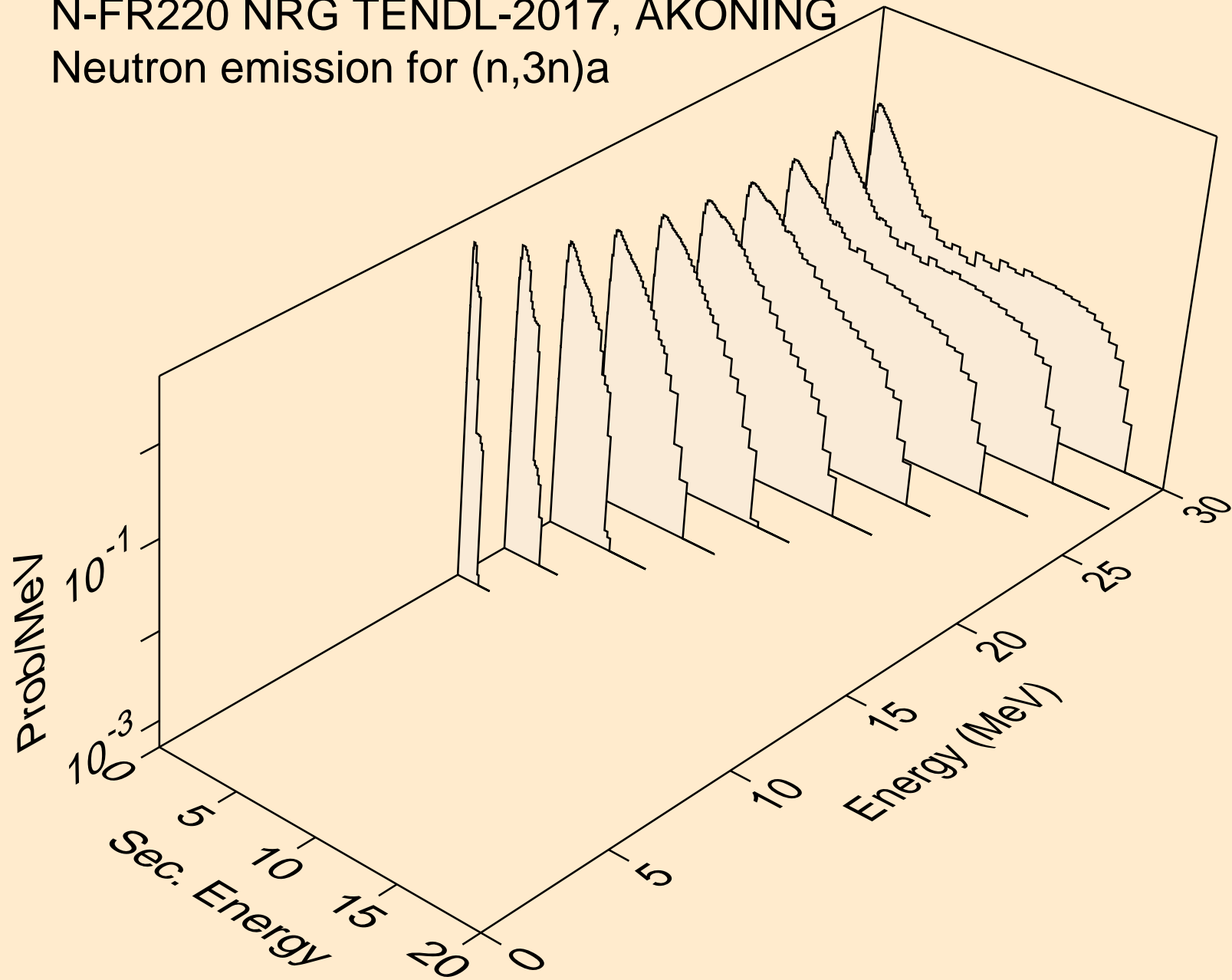
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)a



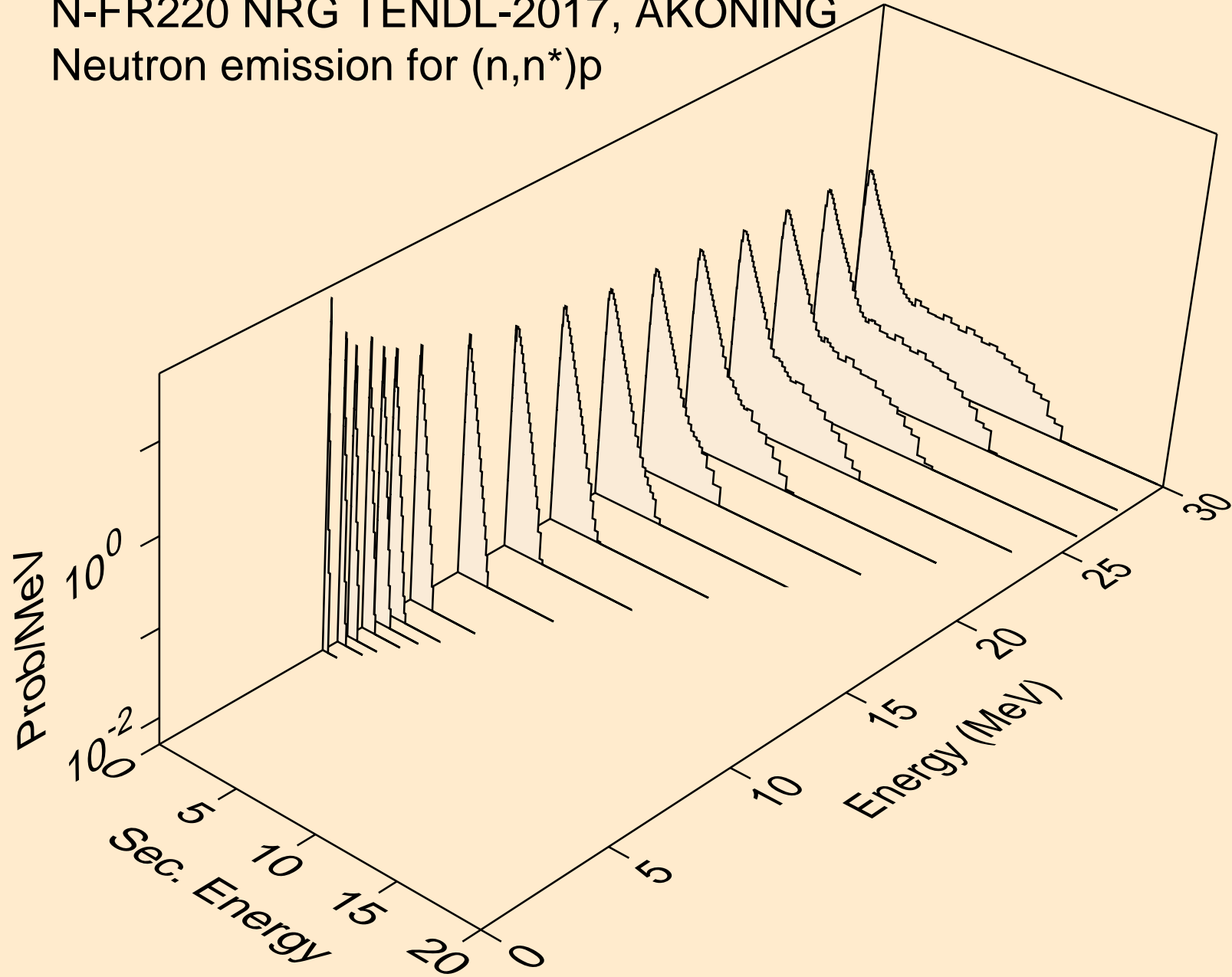
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)a



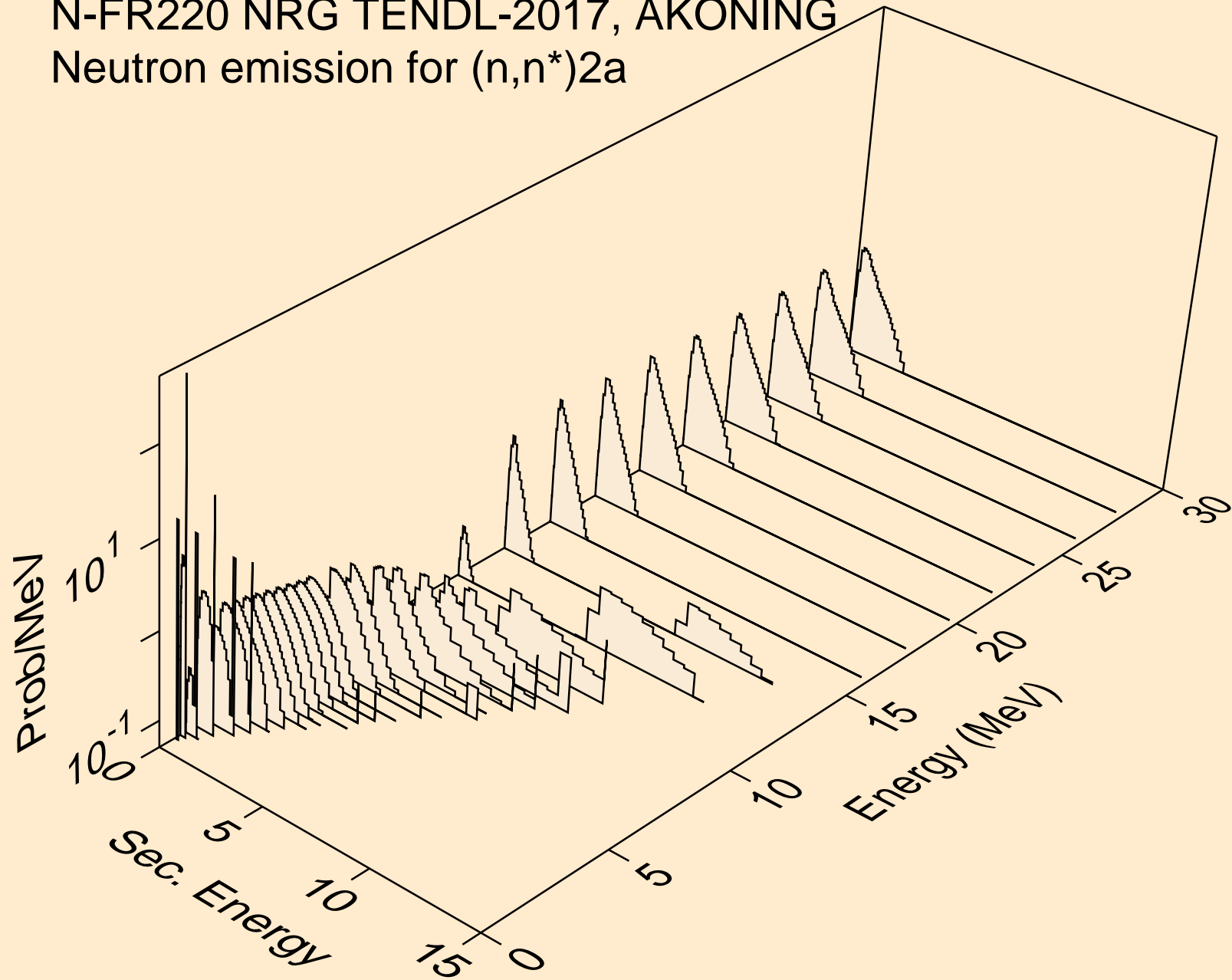
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,3n)a



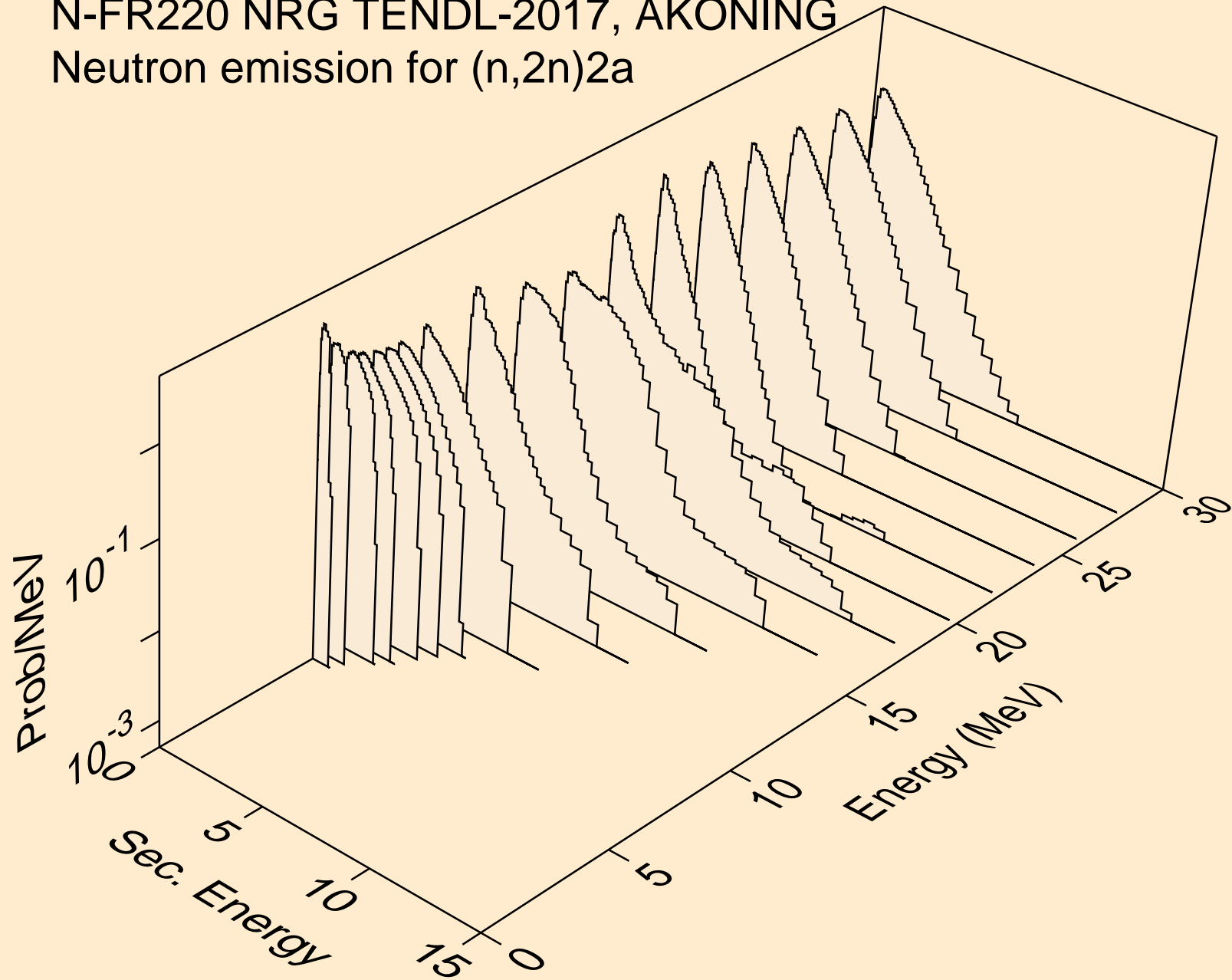
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)p



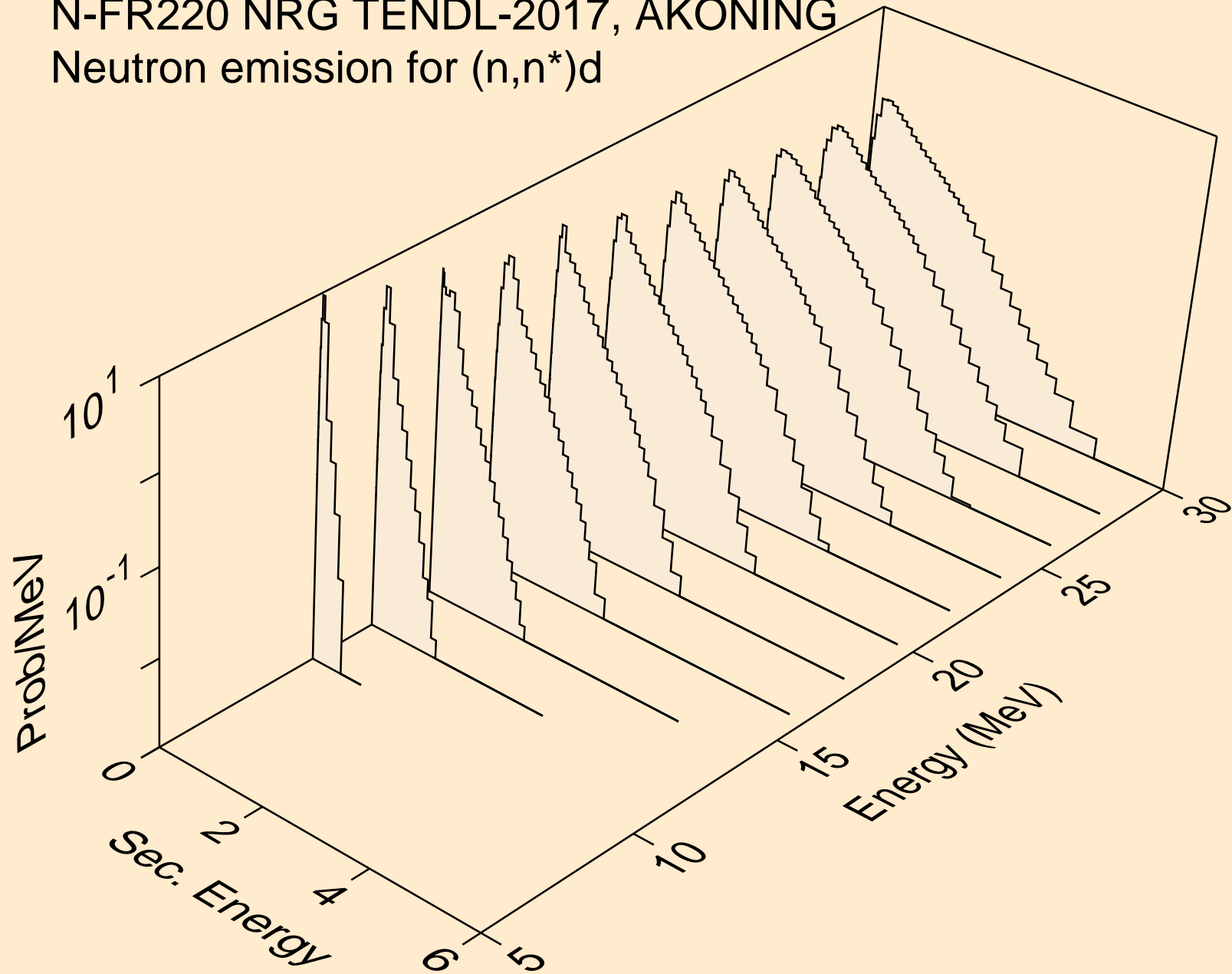
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)2a



N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,2n)2a

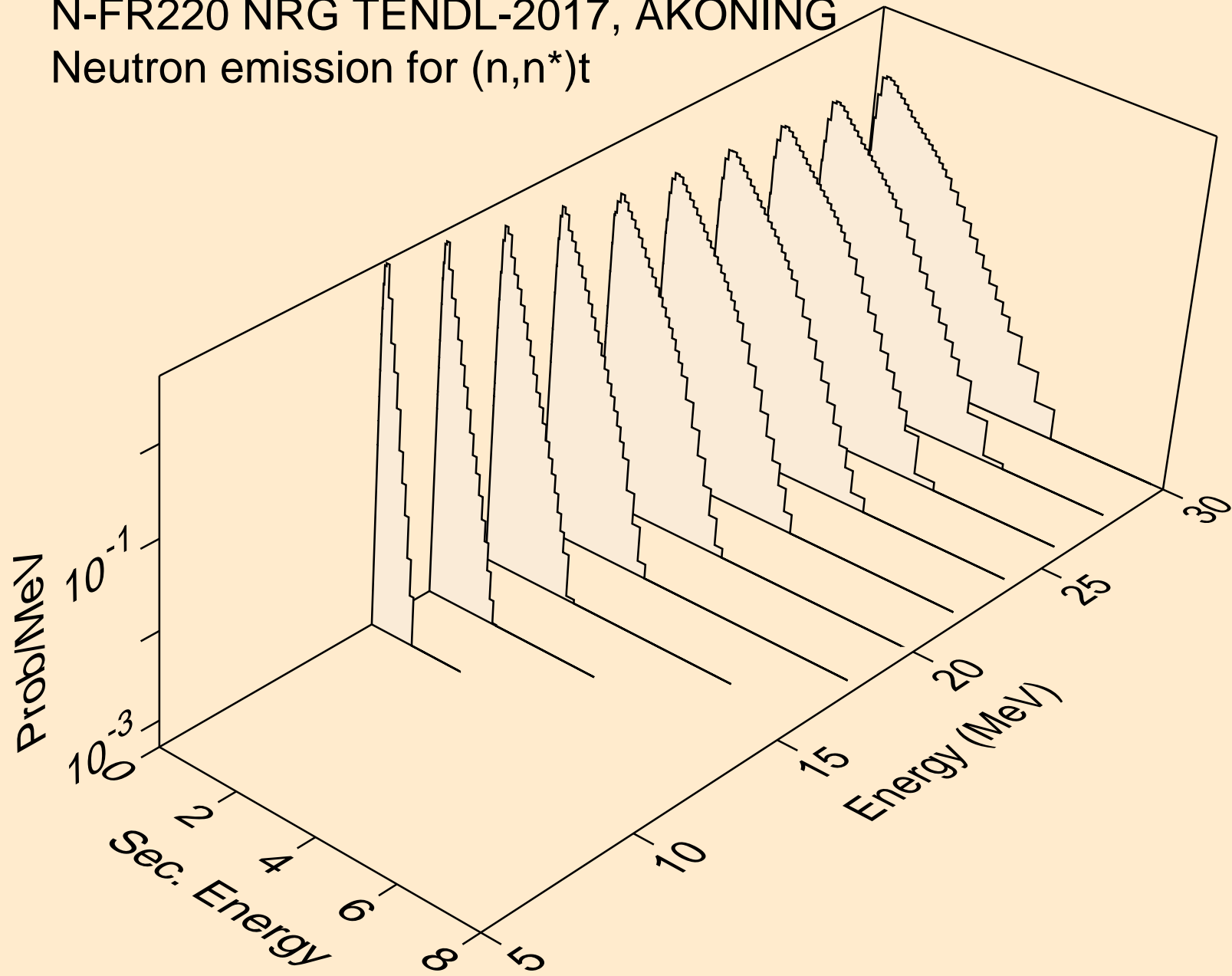


N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)d

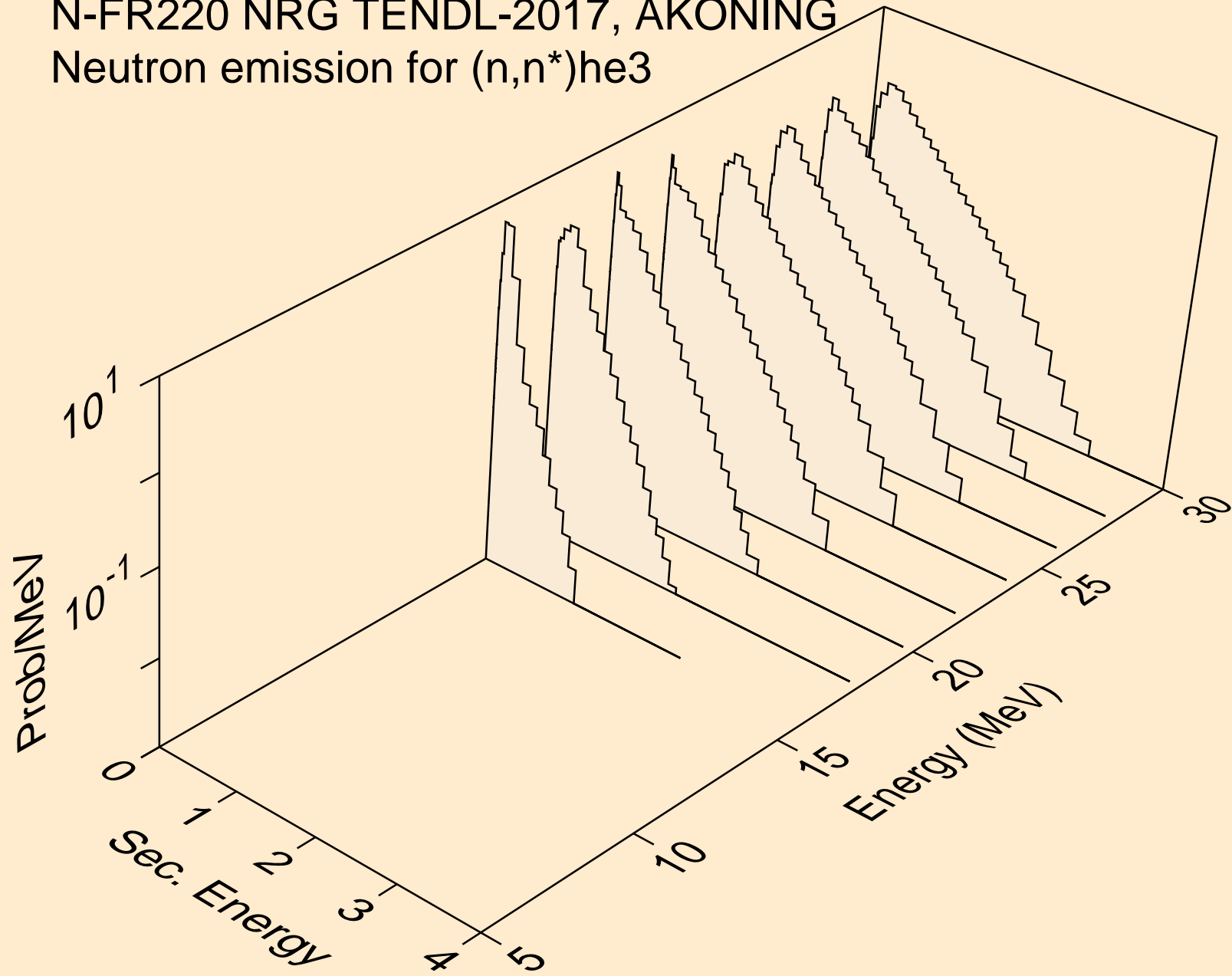




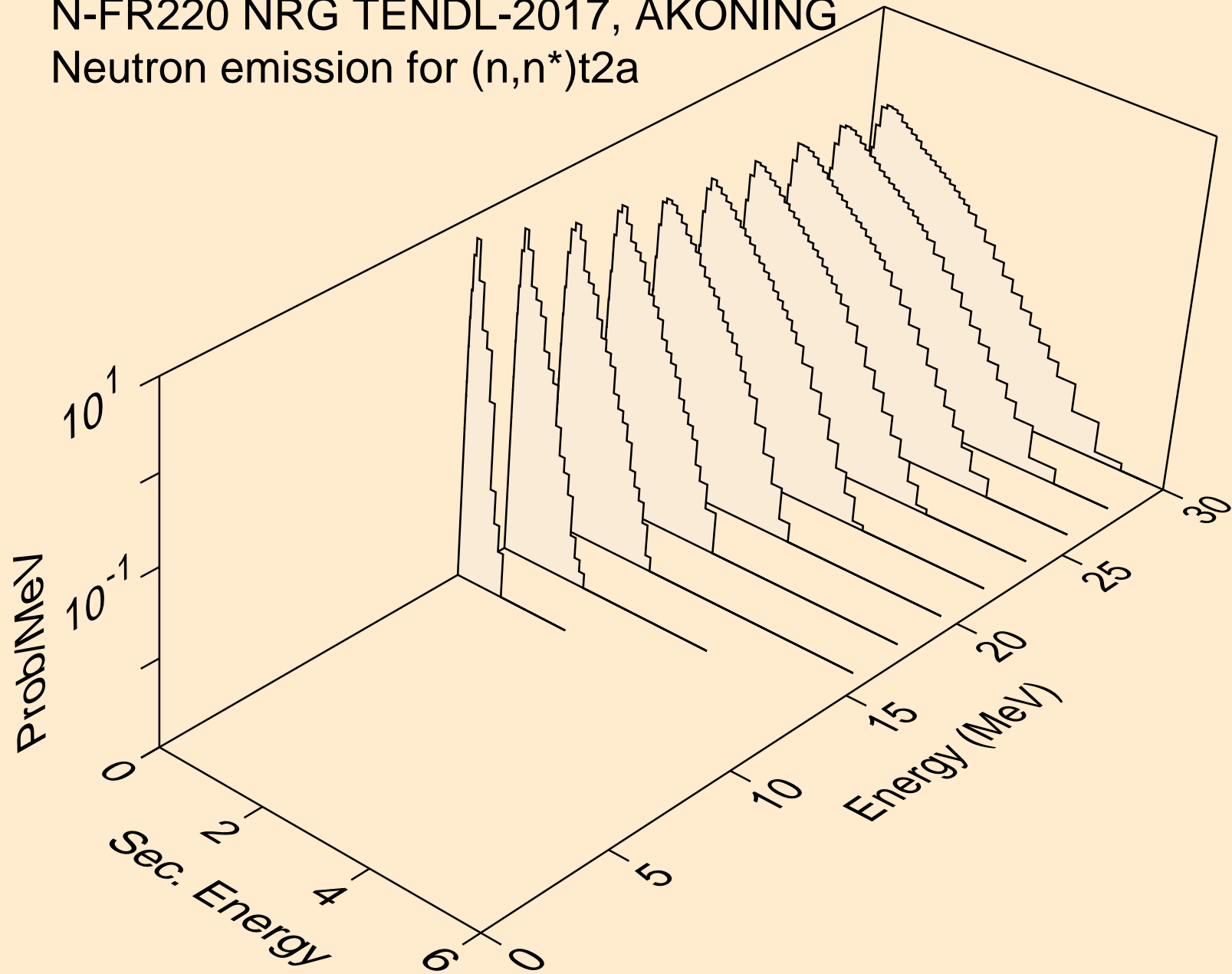
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)t



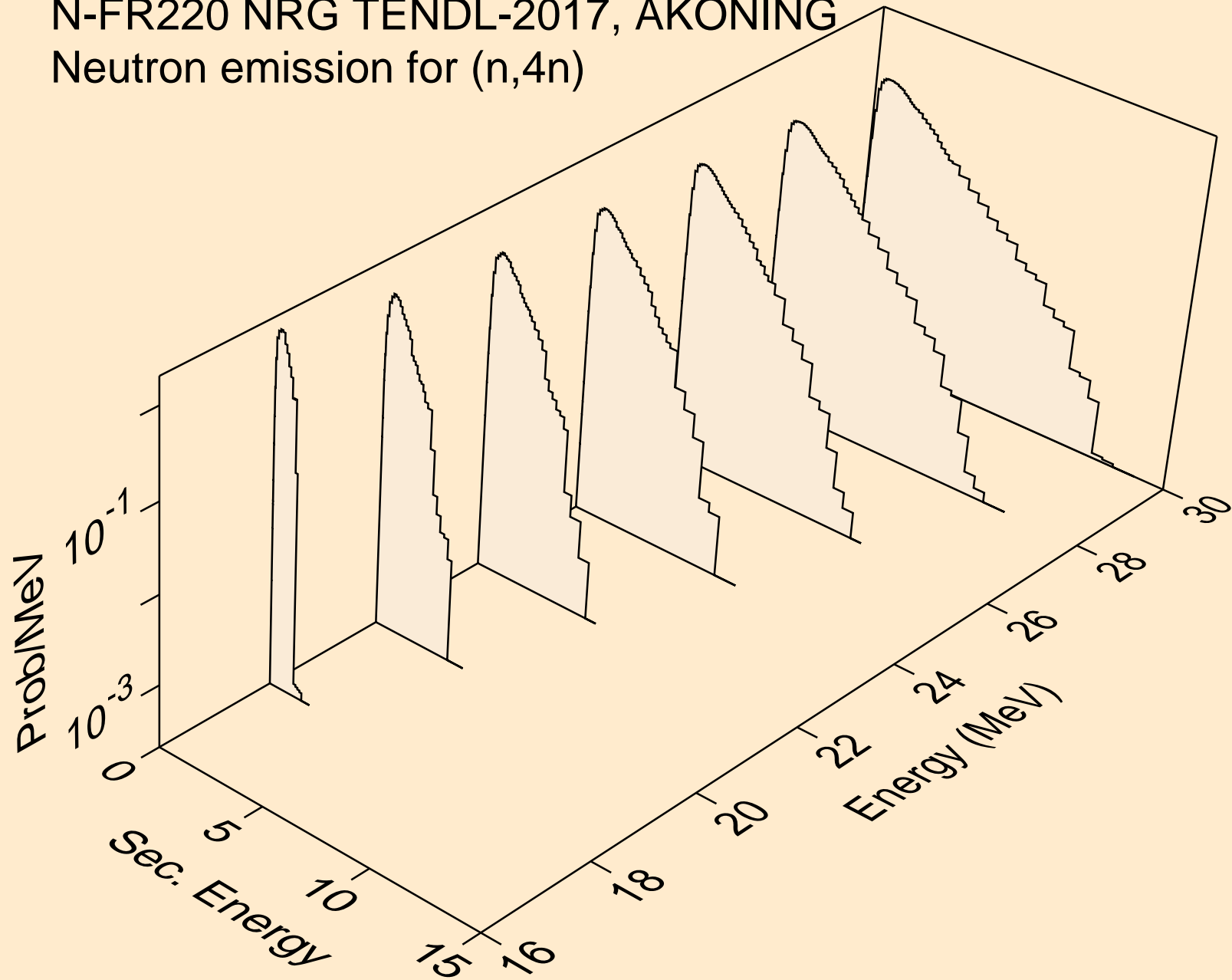
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)he3



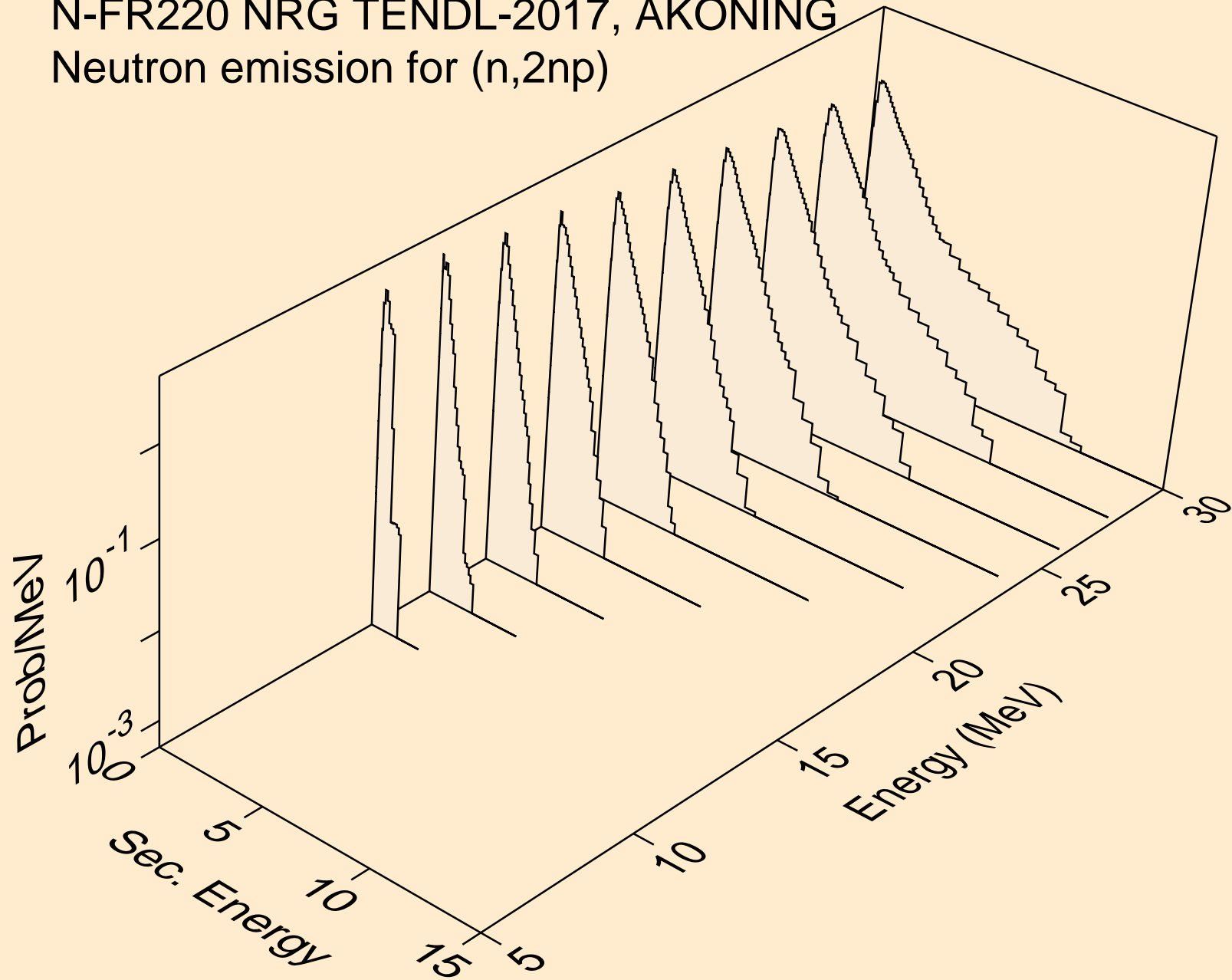
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*)t2a



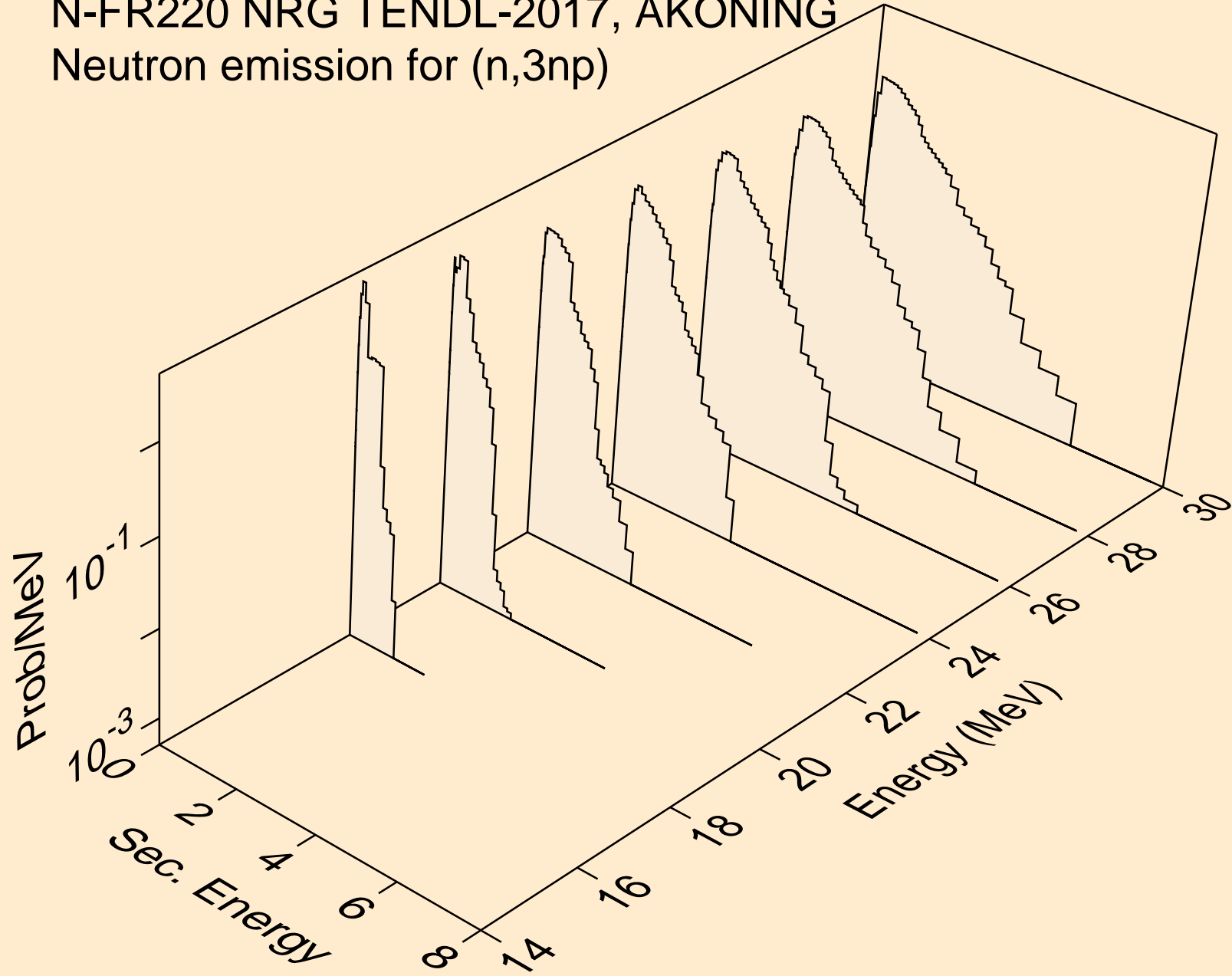
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,4n)



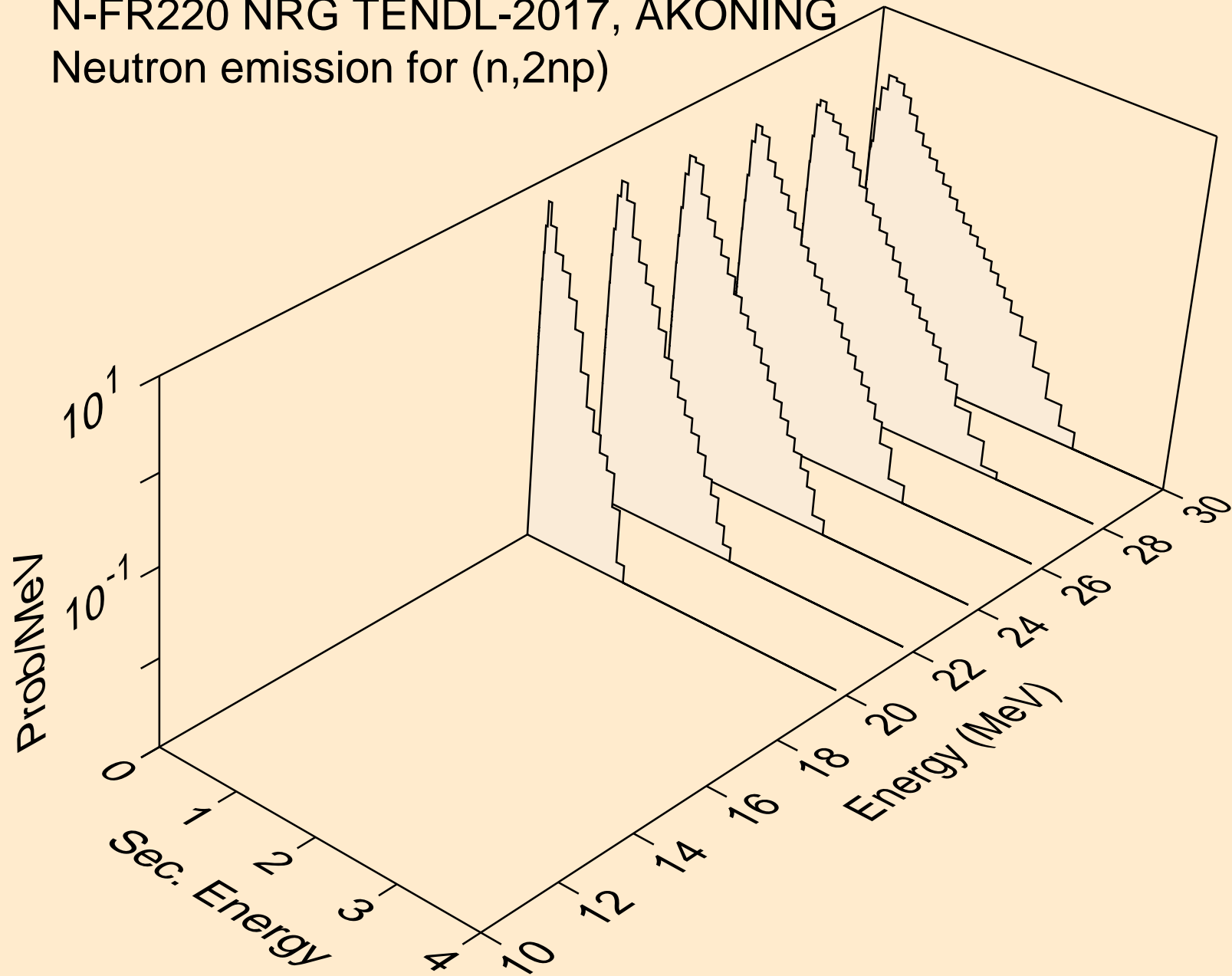
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)



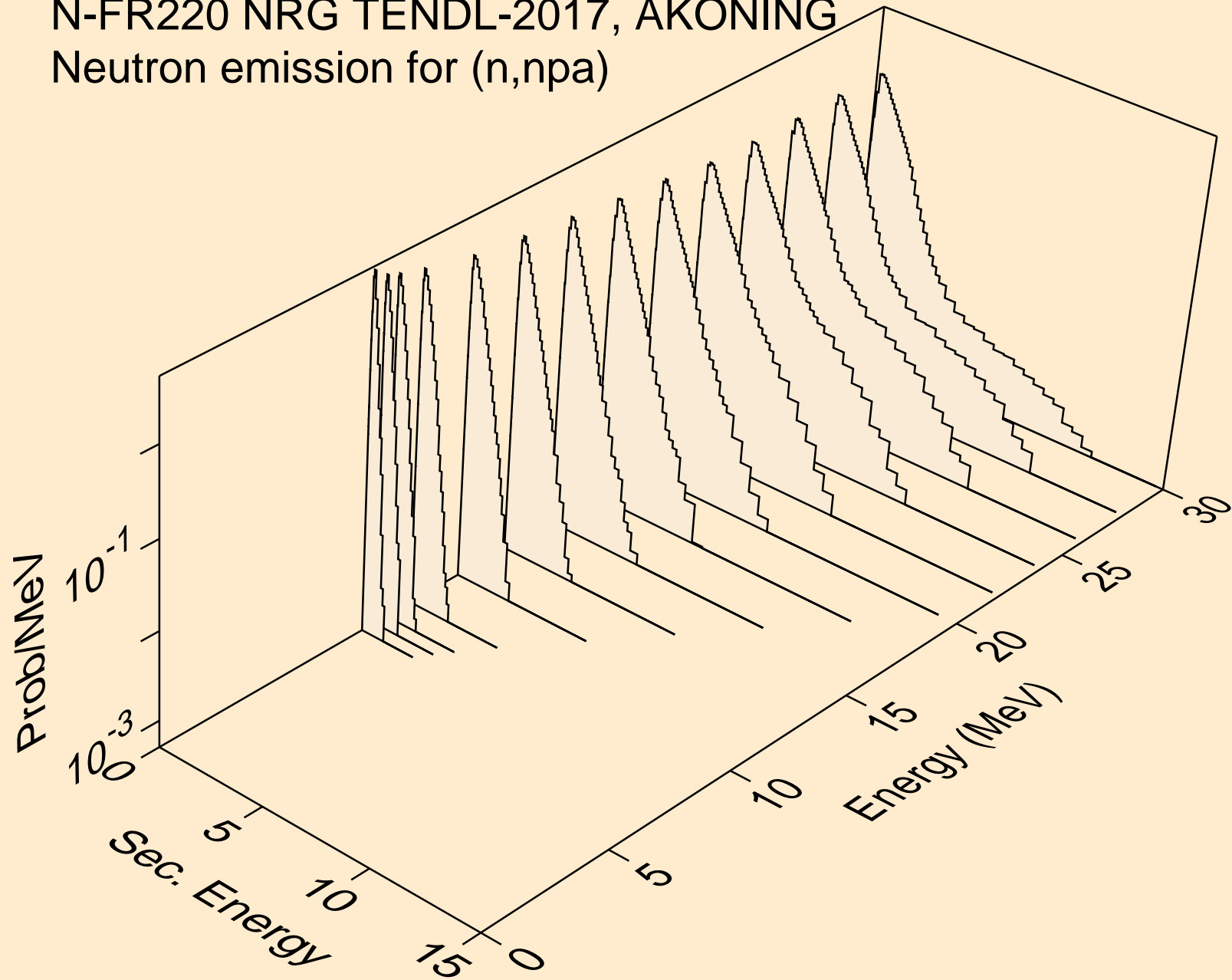
N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,3np)



N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,2np)

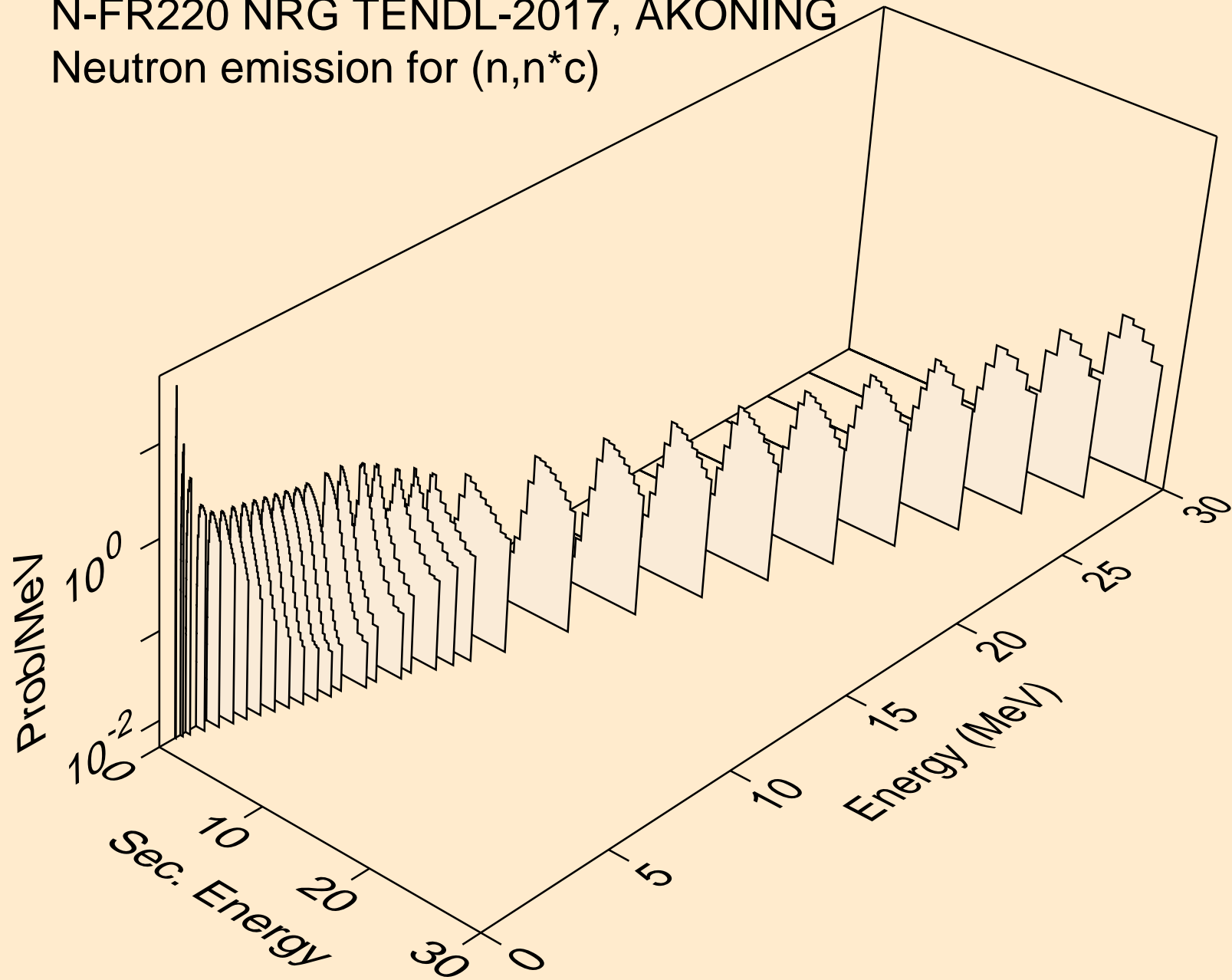


N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,npa)



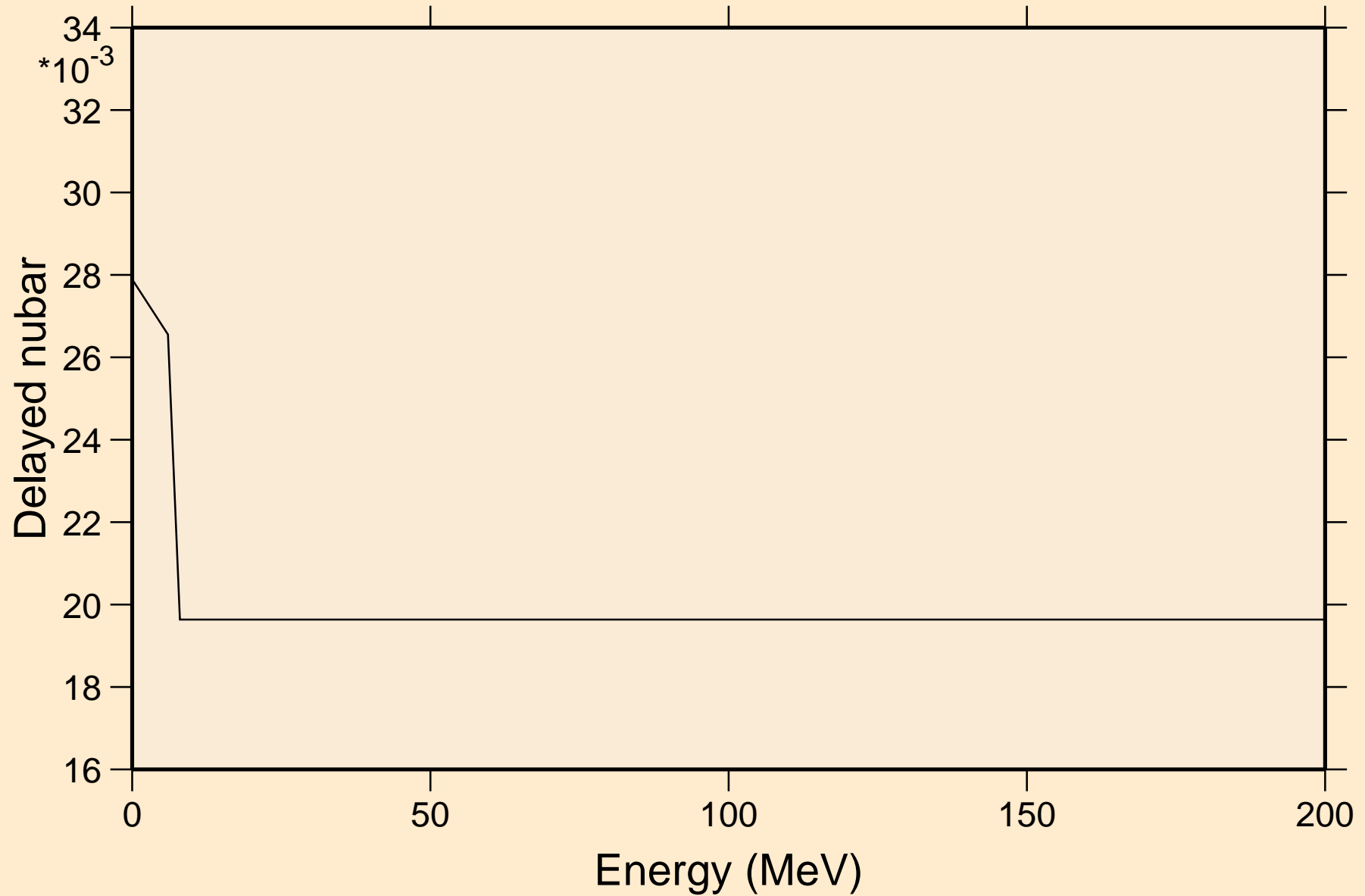


N-FR220 NRG TENDL-2017, AKONING  
Neutron emission for (n,n\*c)



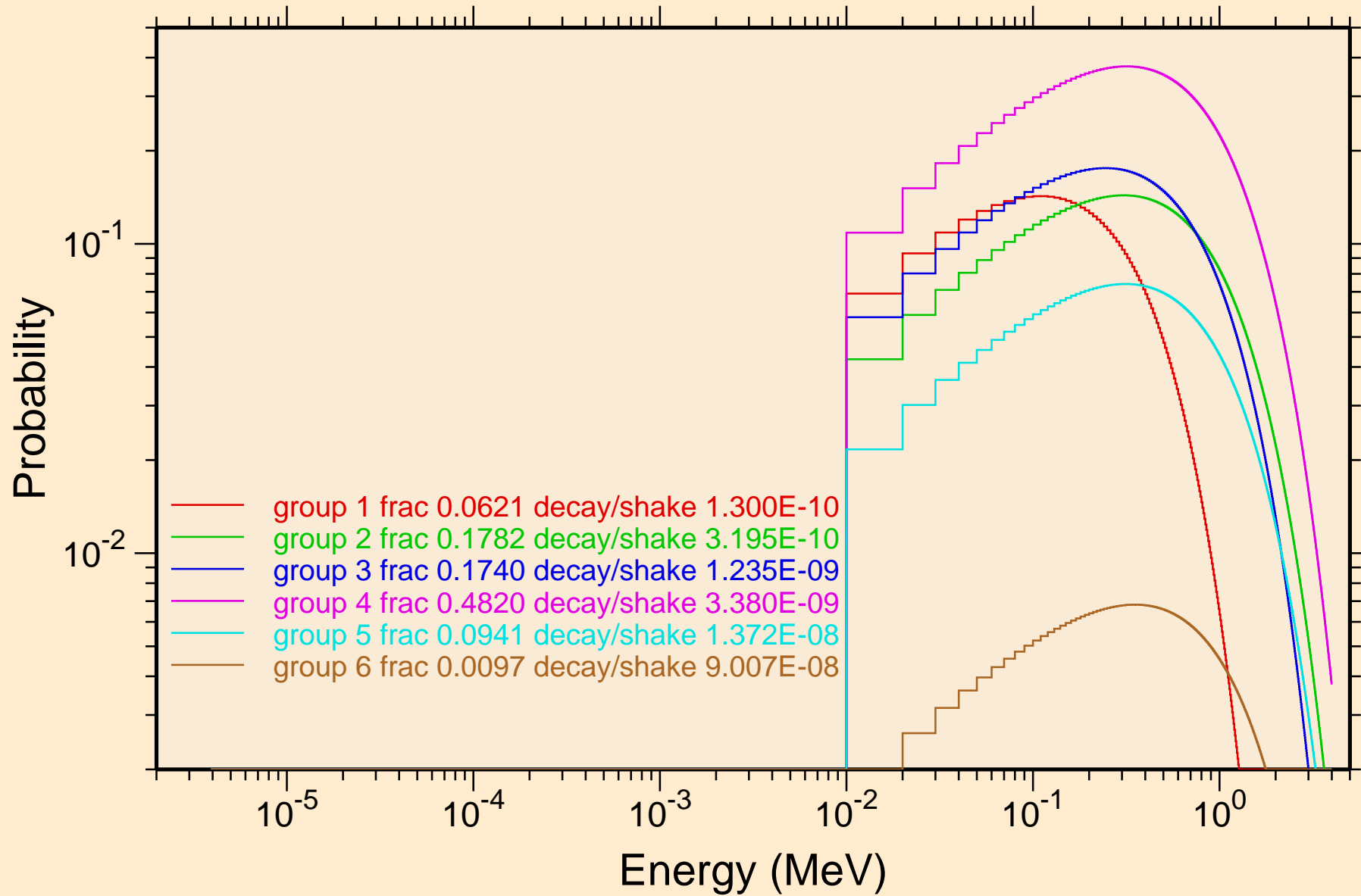
# N-FR220 NRG TENDL-2017, AKONING

Delayed nubar

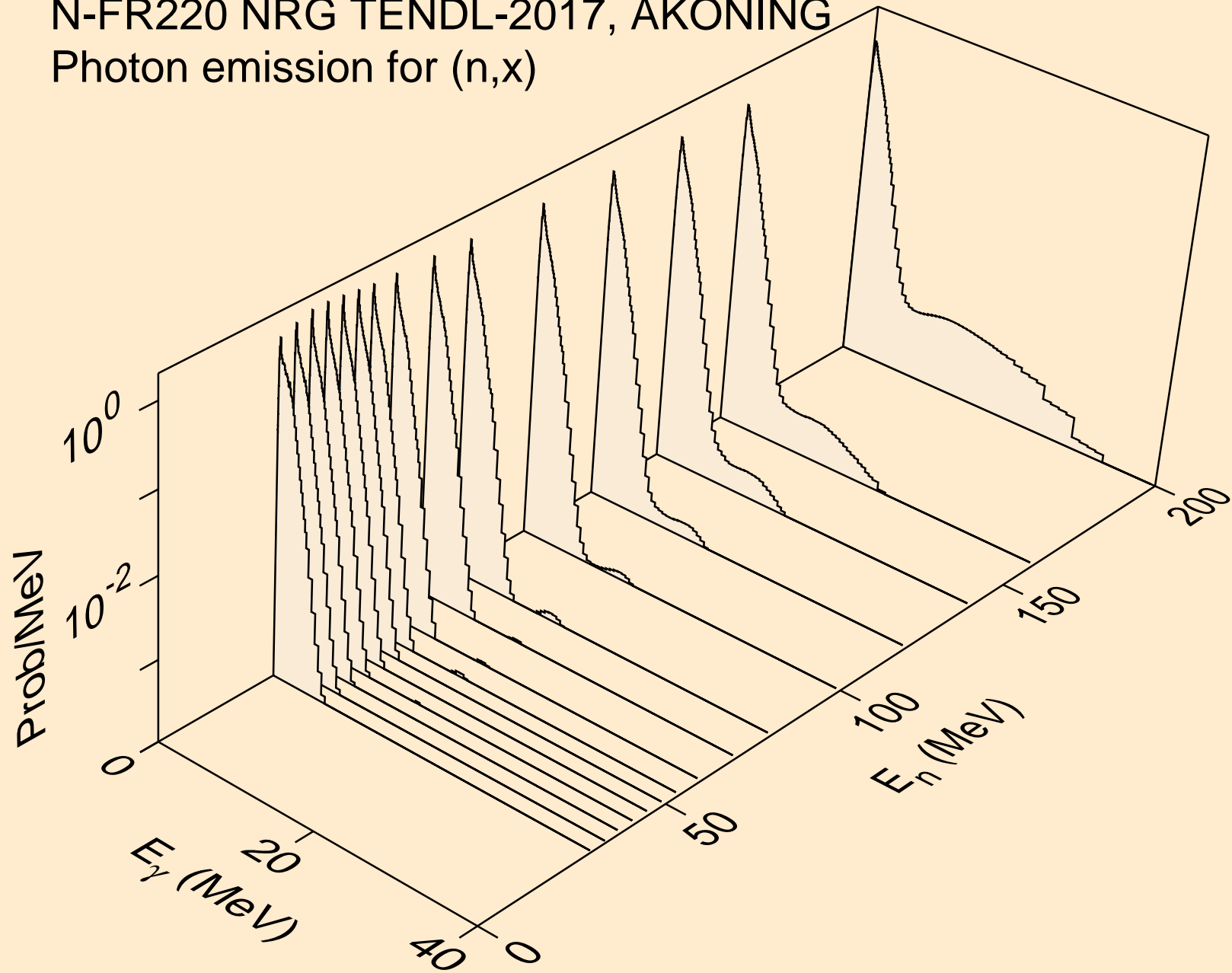


# N-FR220 NRG TENDL-2017, AKONING

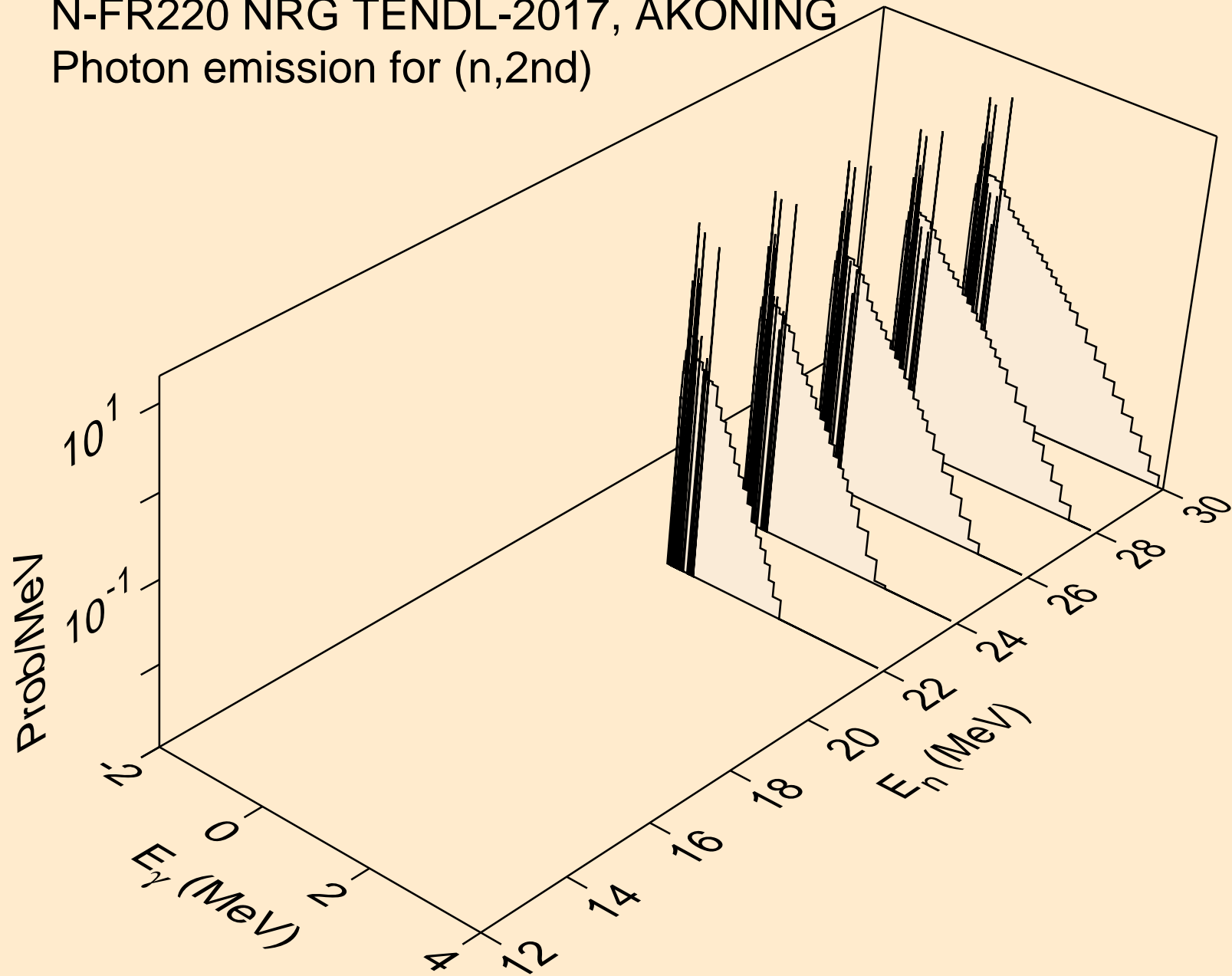
## Delayed neutron spectra



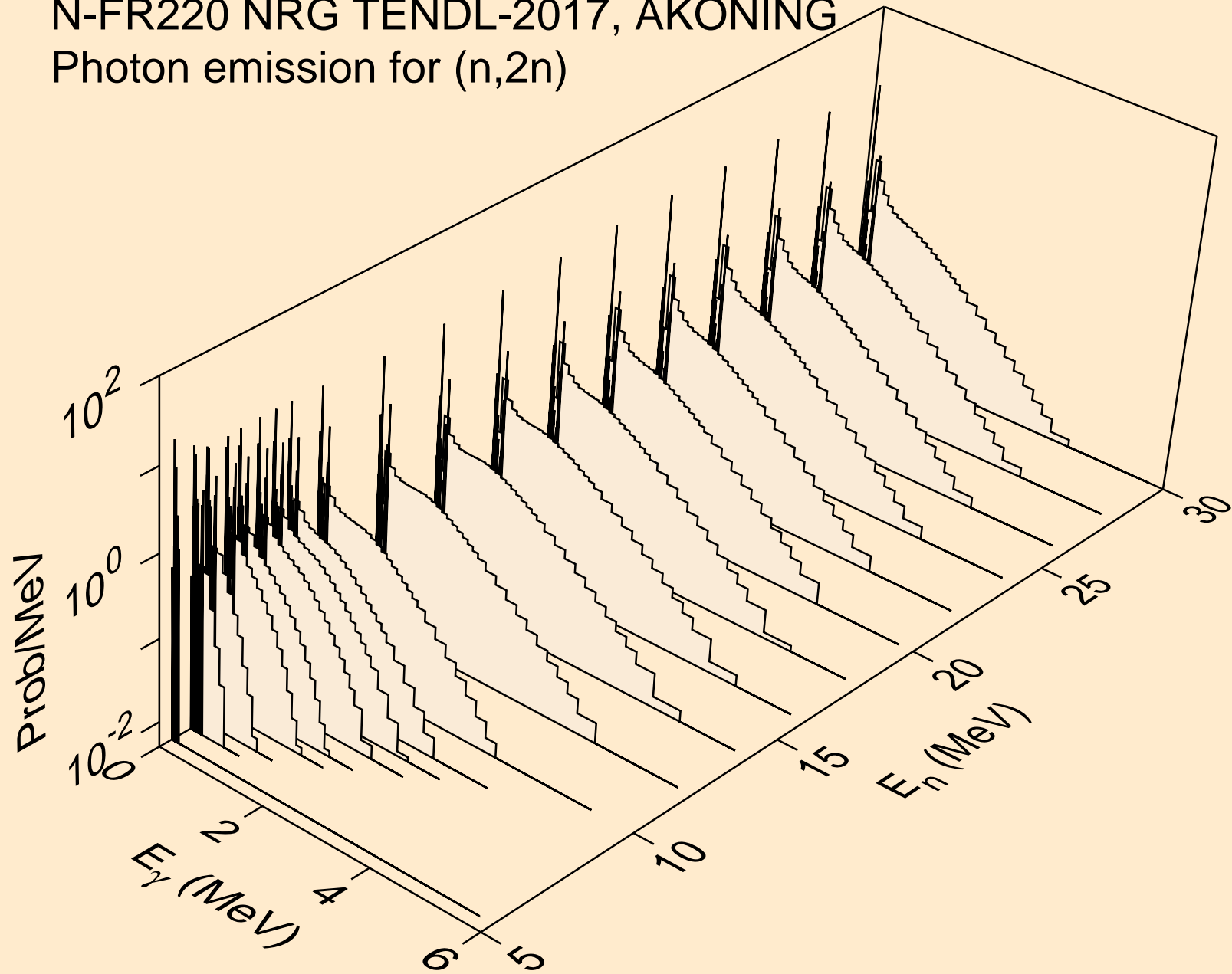
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,x)



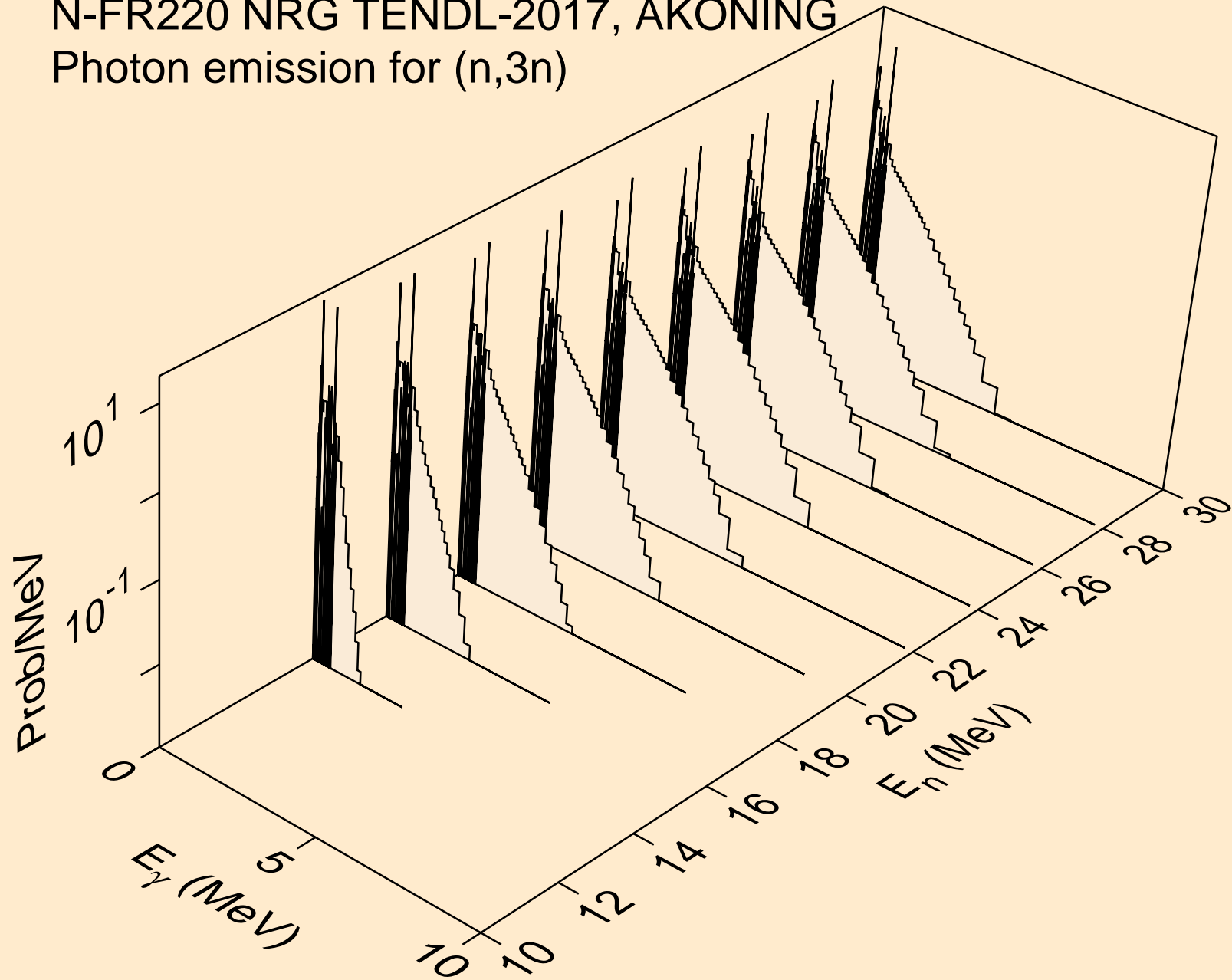
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,2nd)



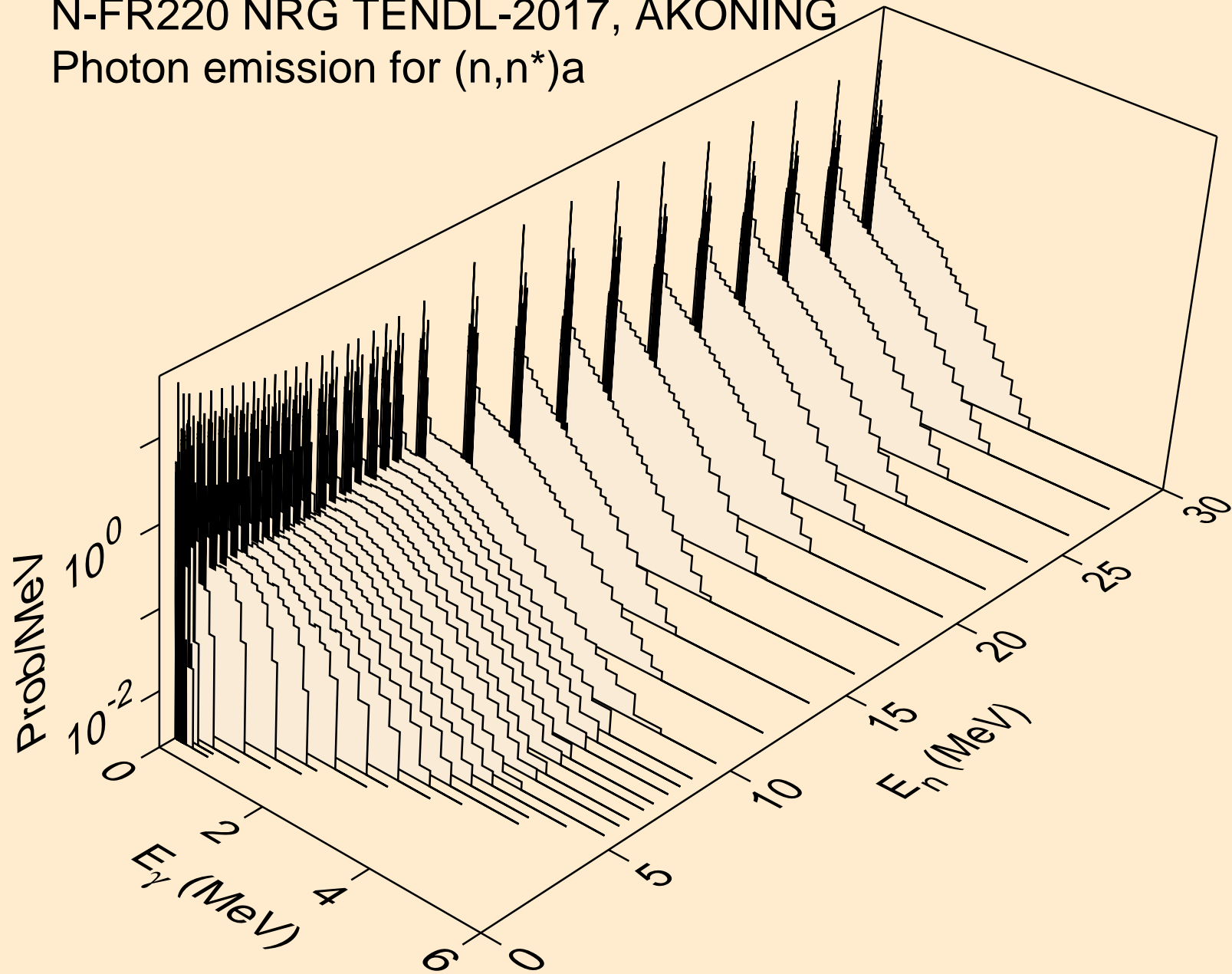
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)



N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)

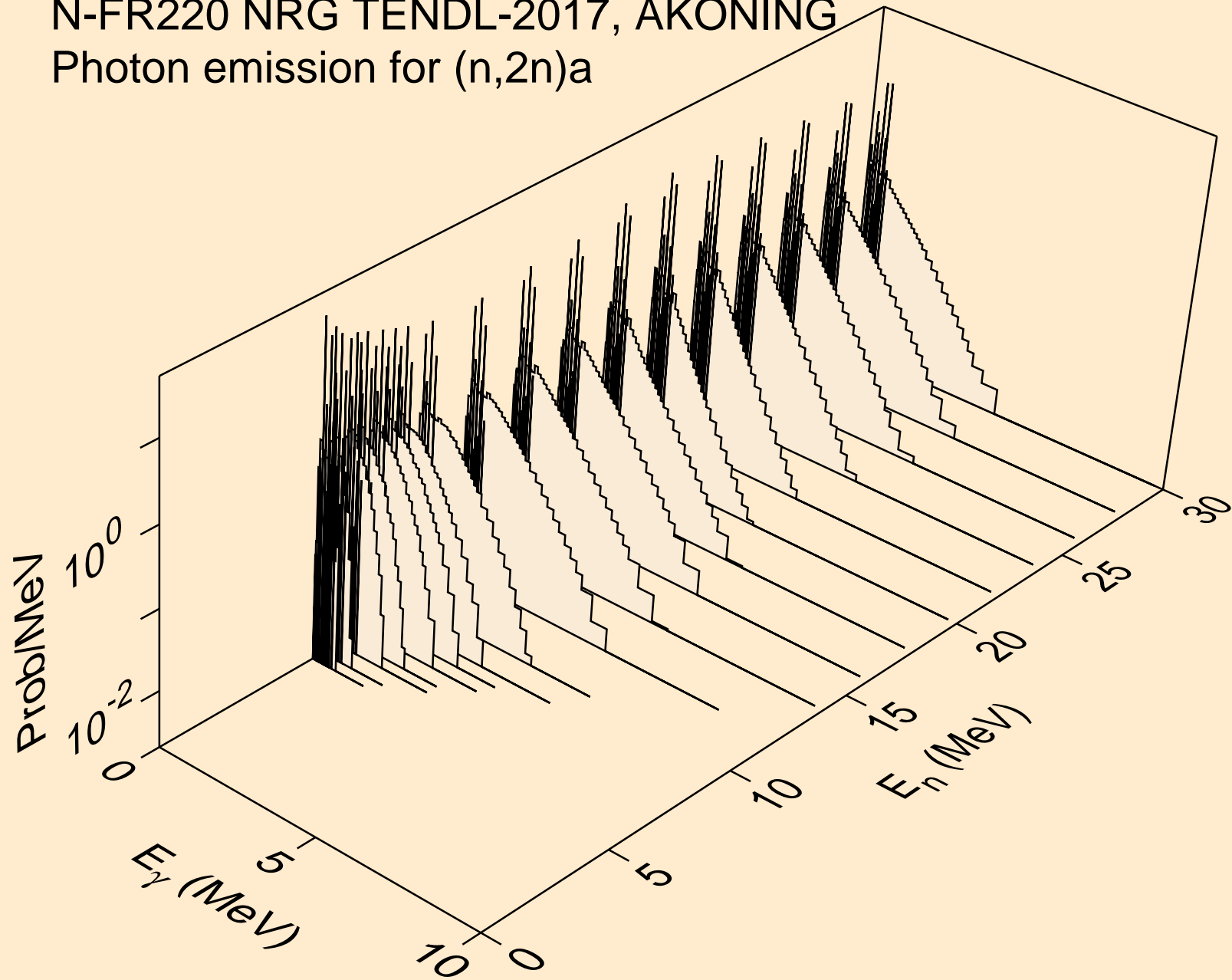


N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)a

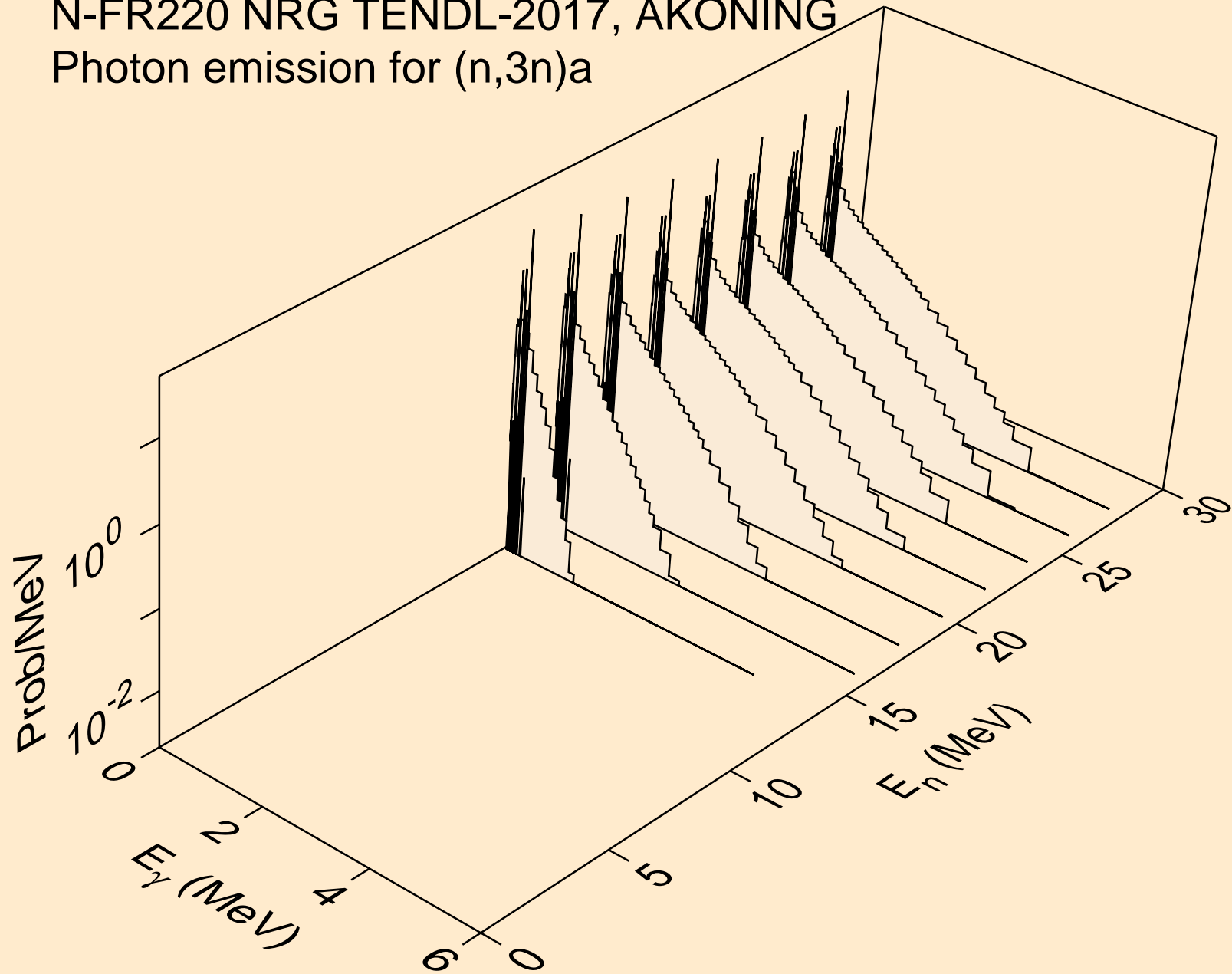




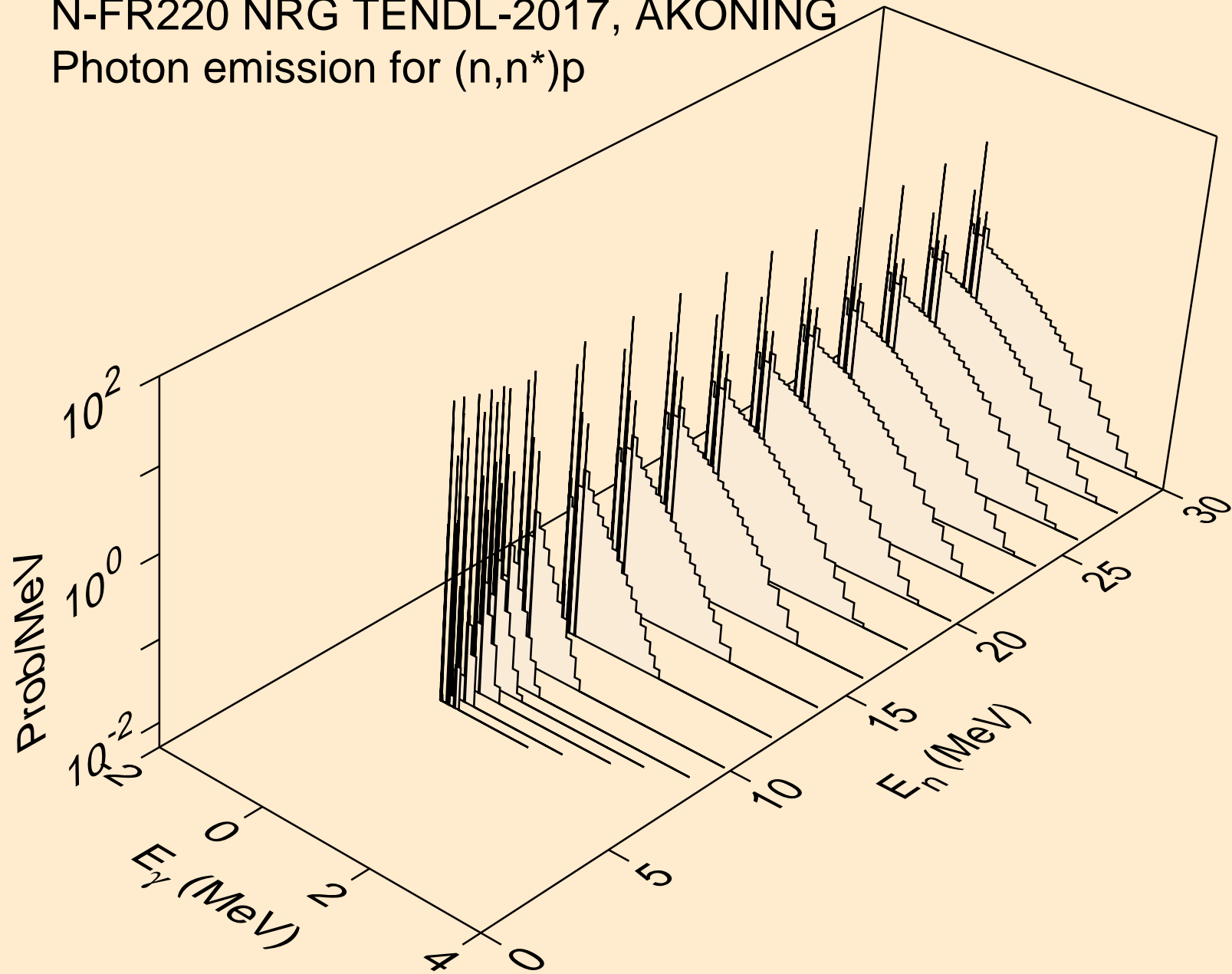
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,2n)a



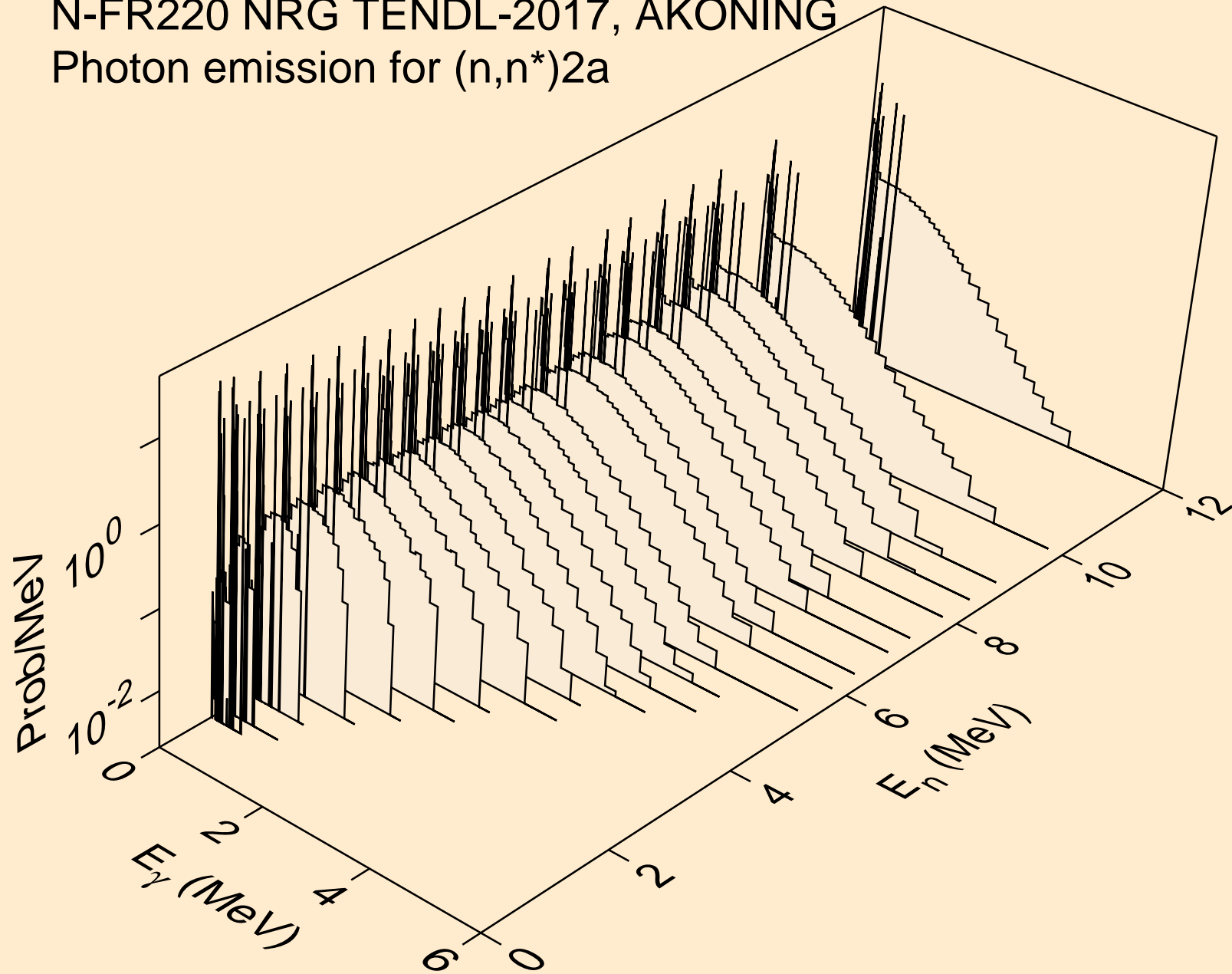
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,3n)a



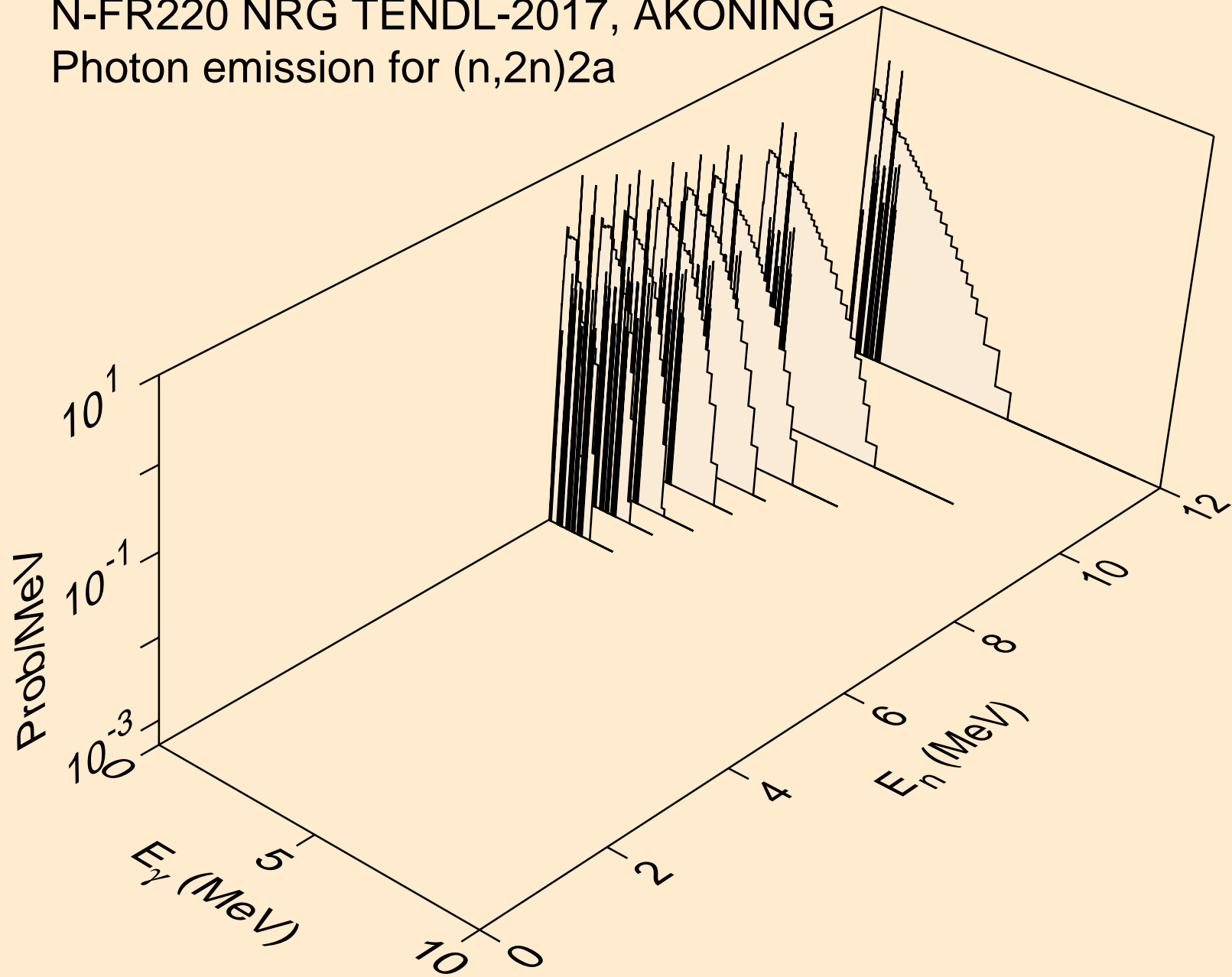
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)p



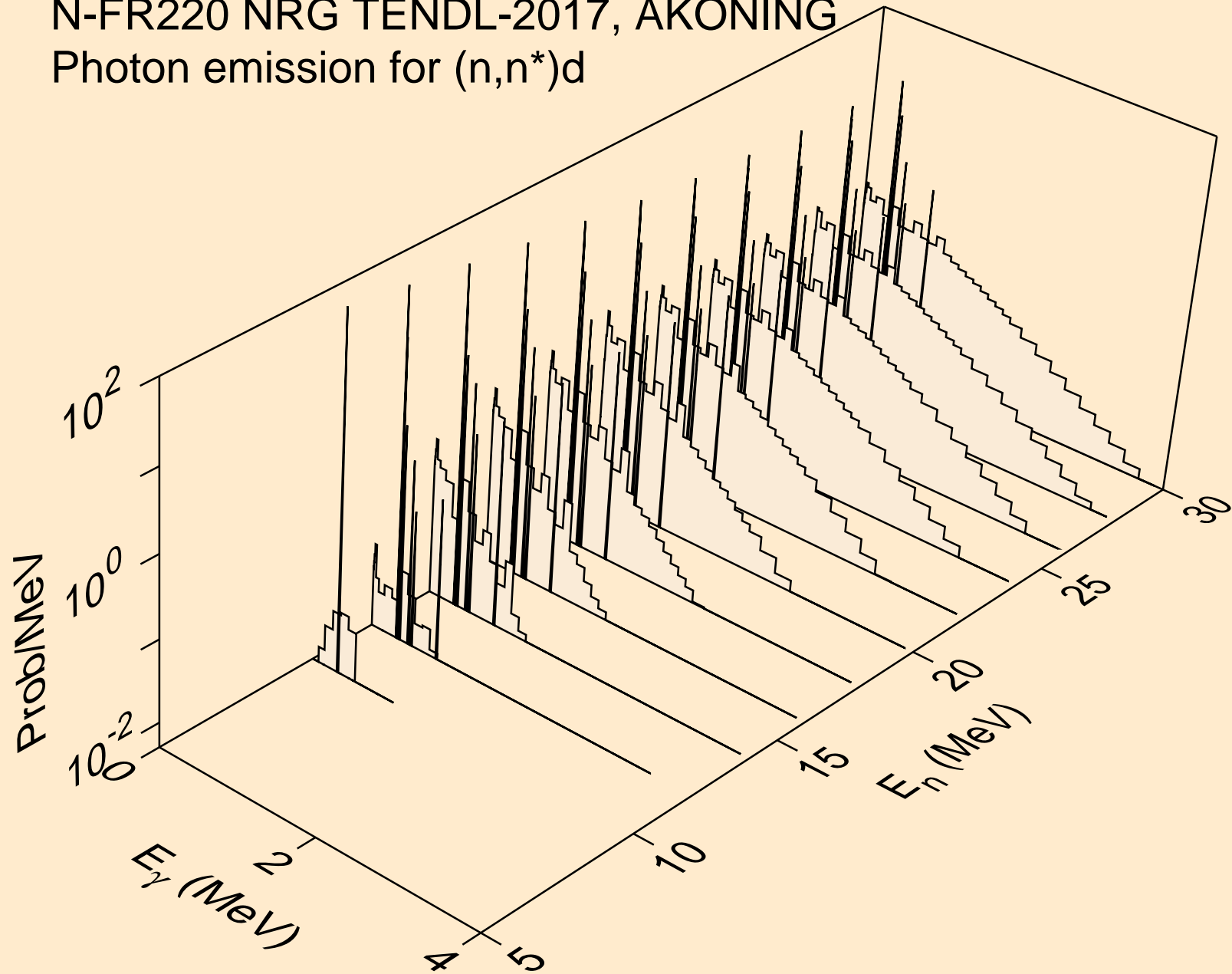
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)2a



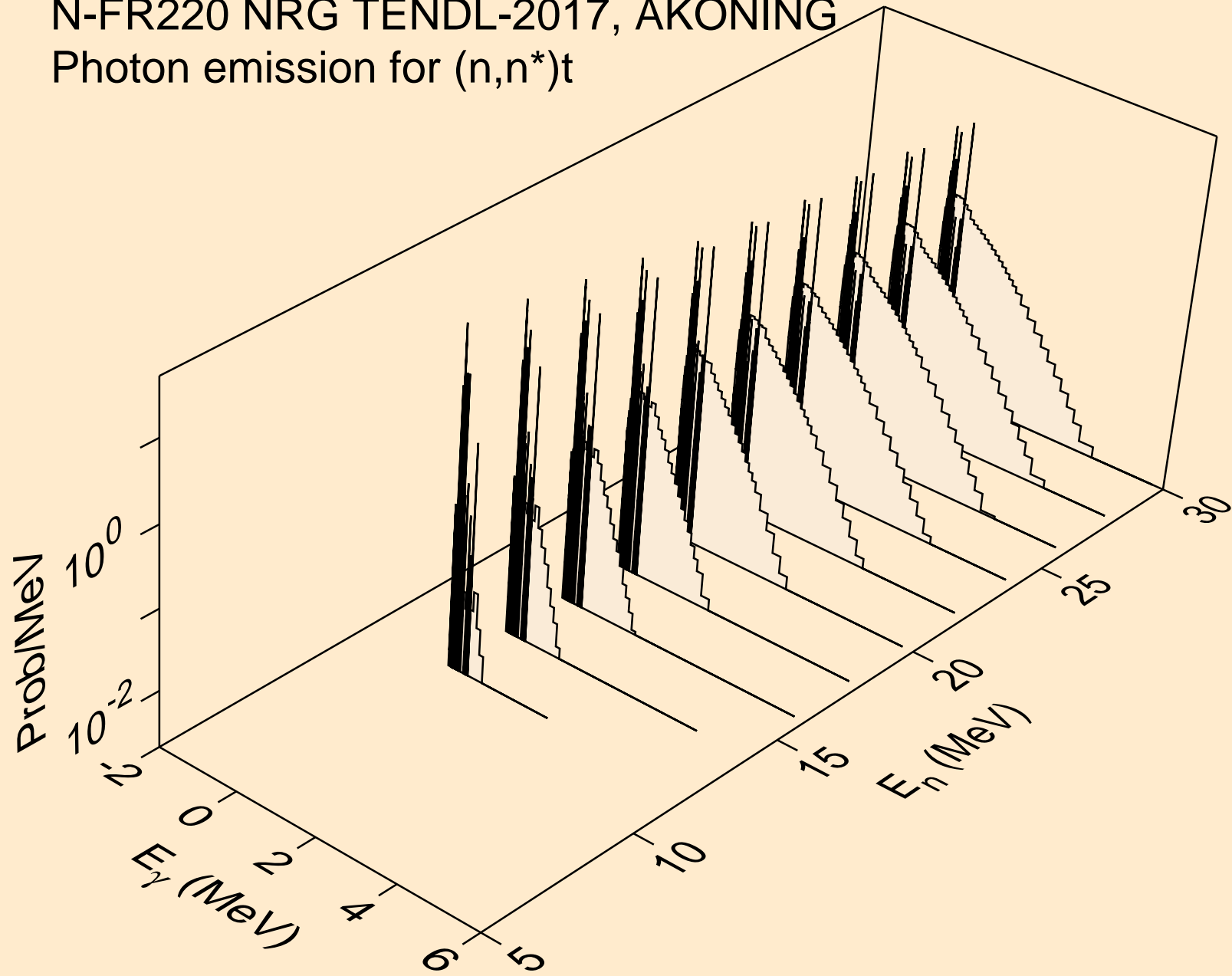
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Photon emission for (n,2n)2a



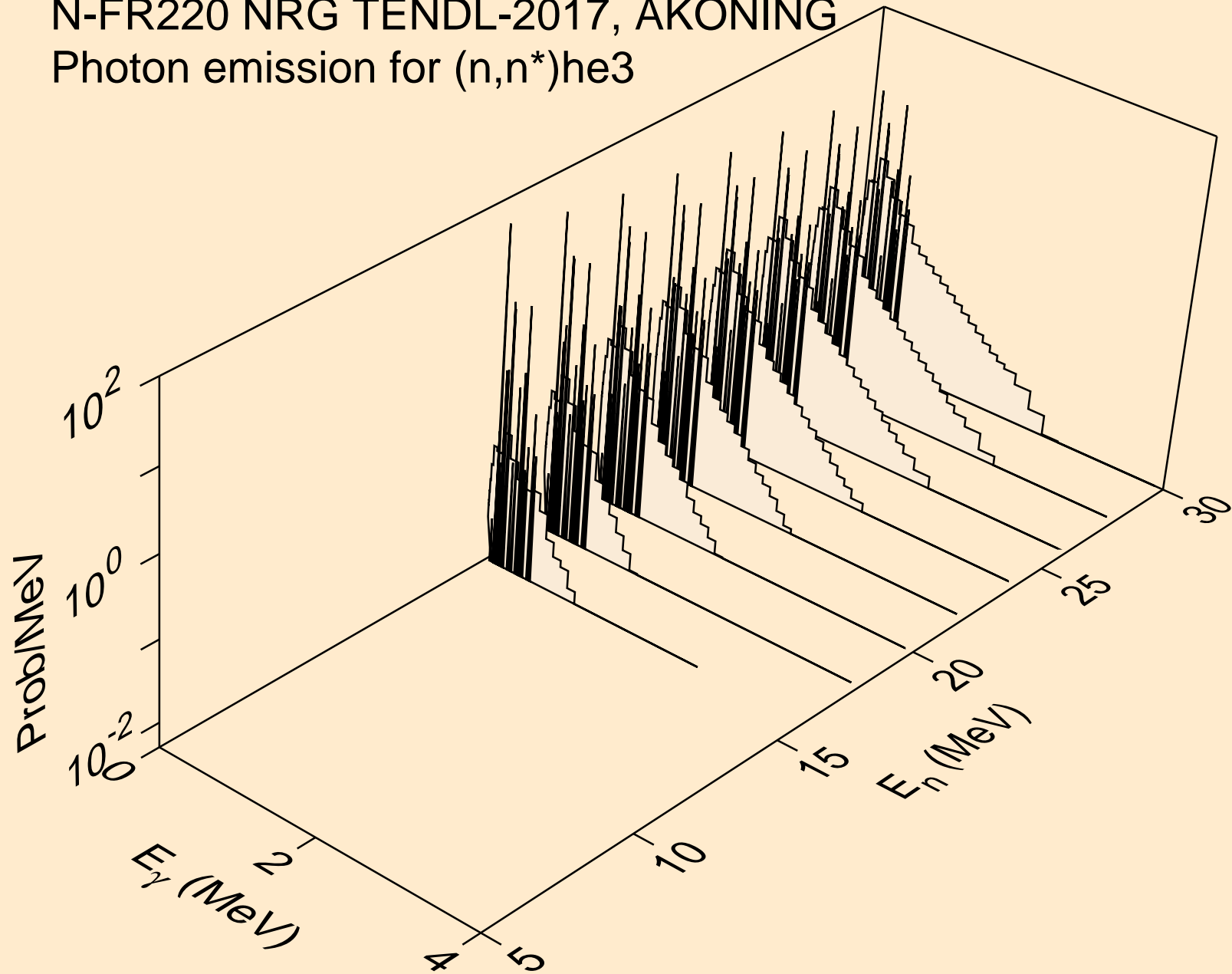
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)d



N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)t

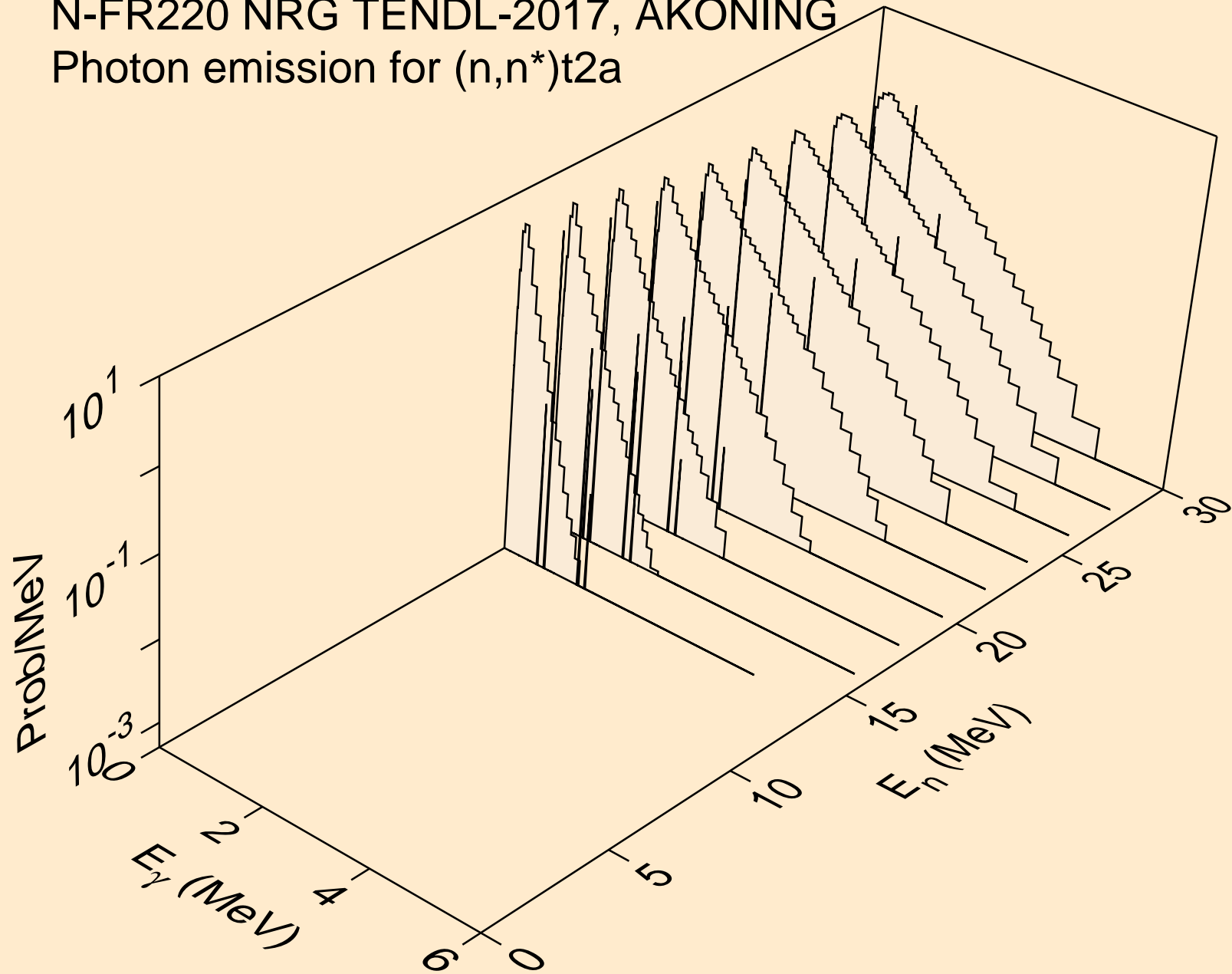


N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)he3

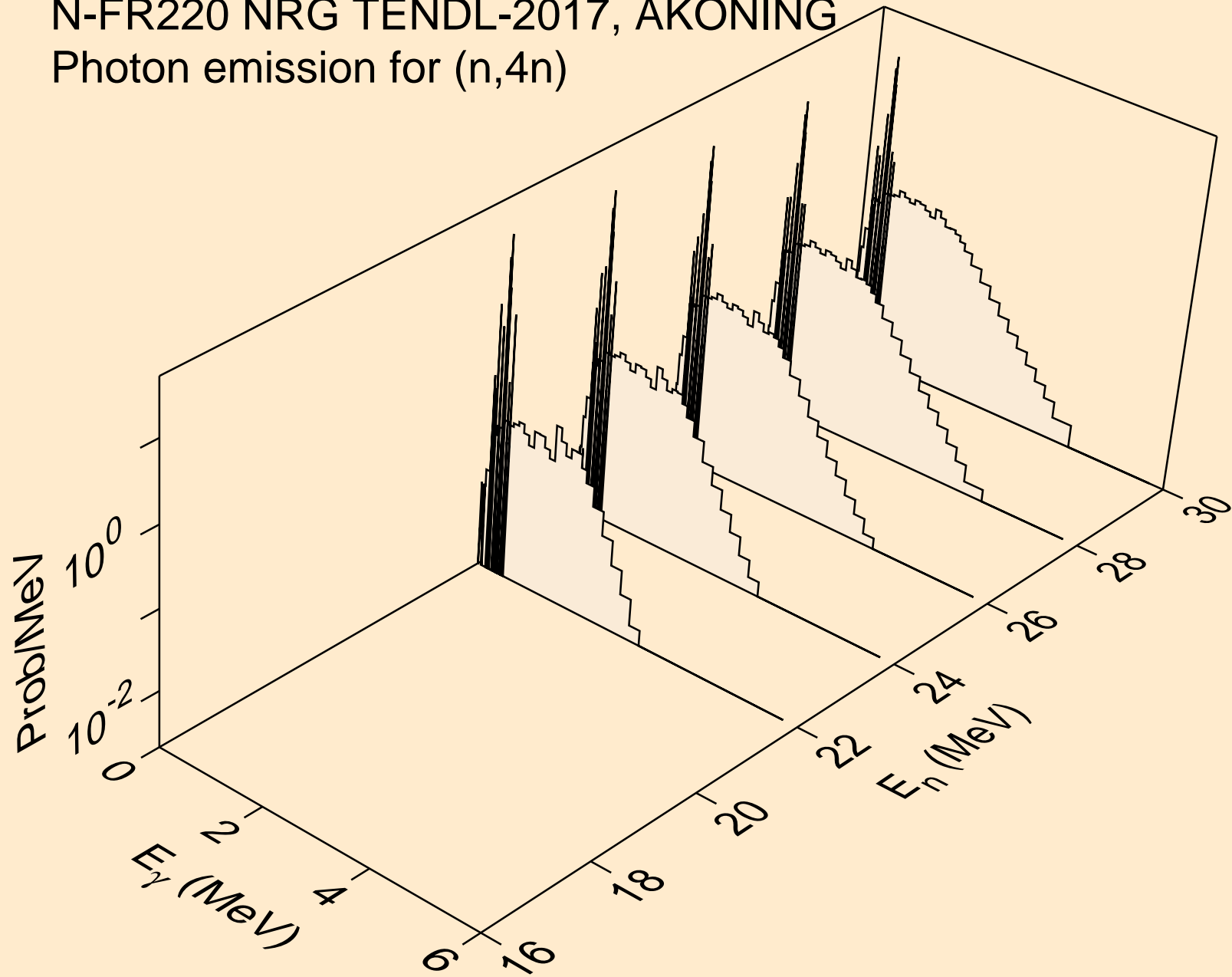




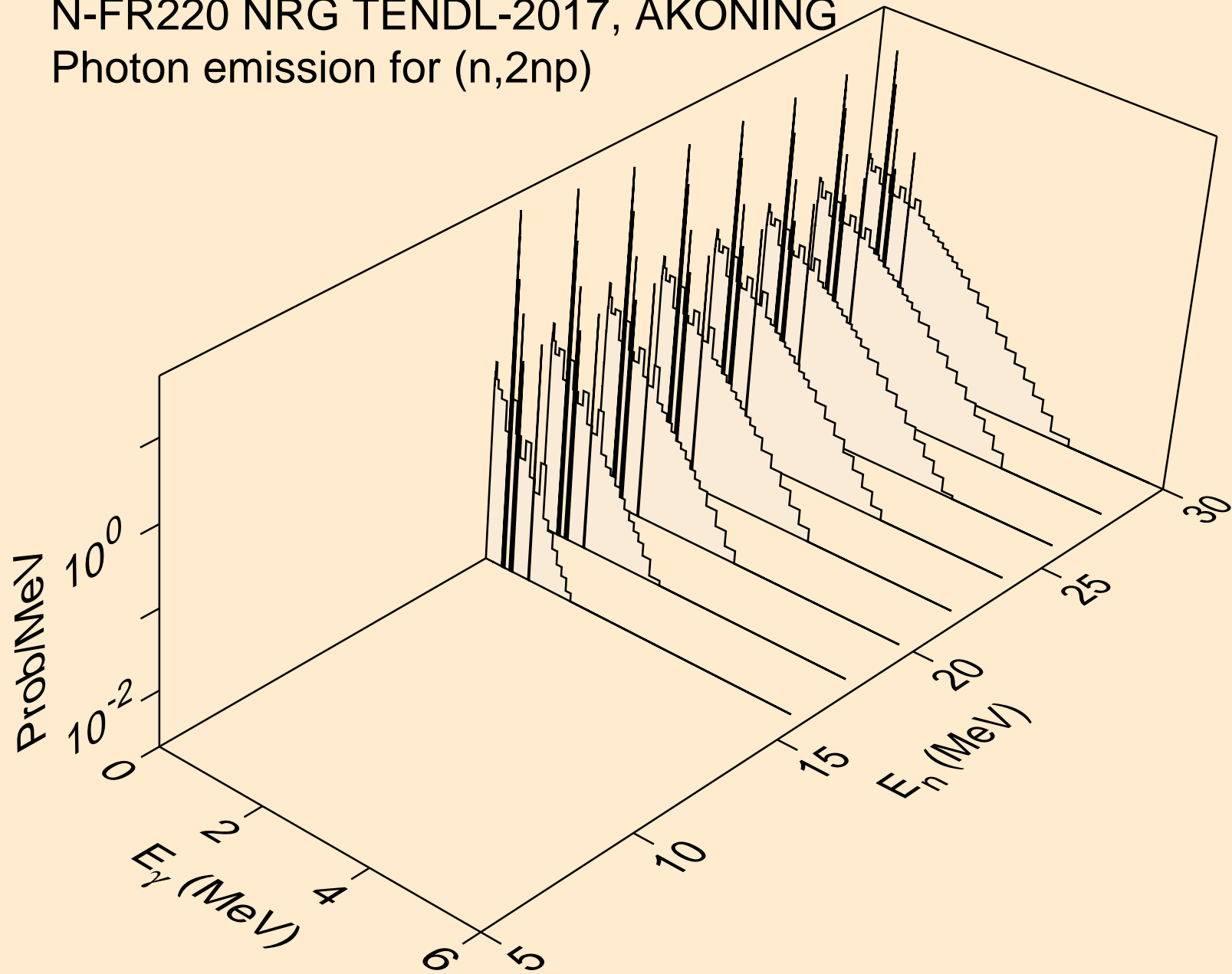
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*)t2a



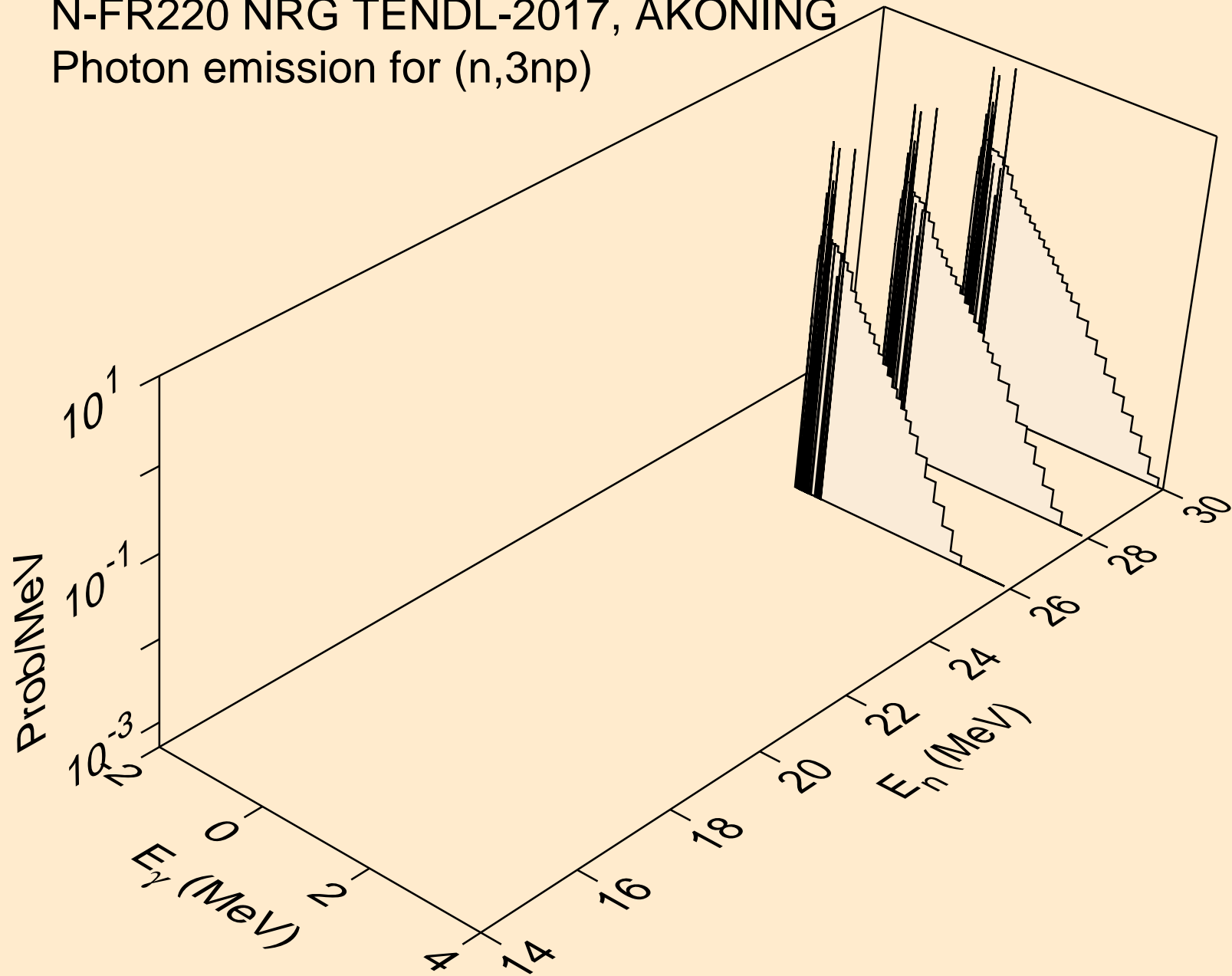
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,4n)



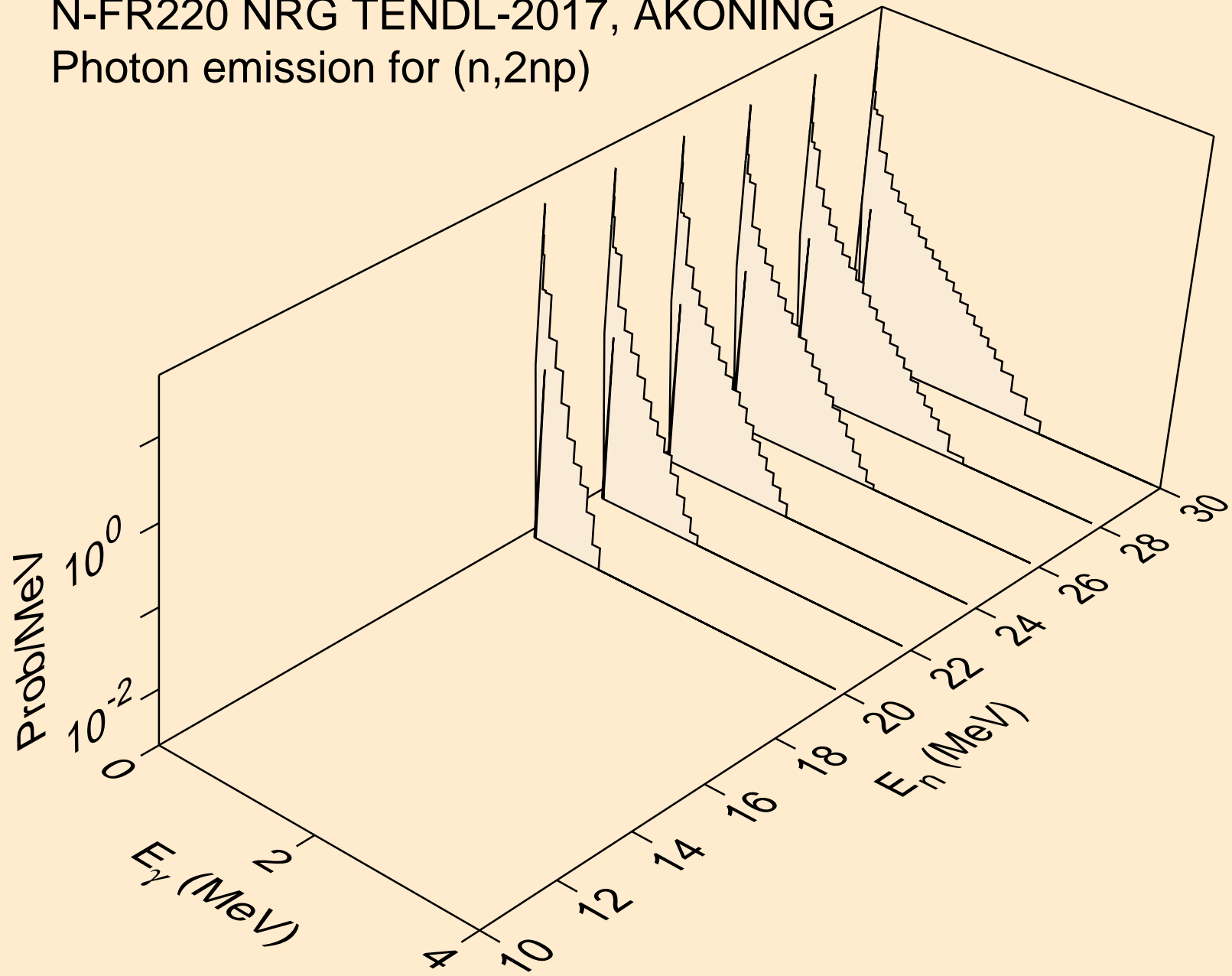
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Photon emission for (n,2np)



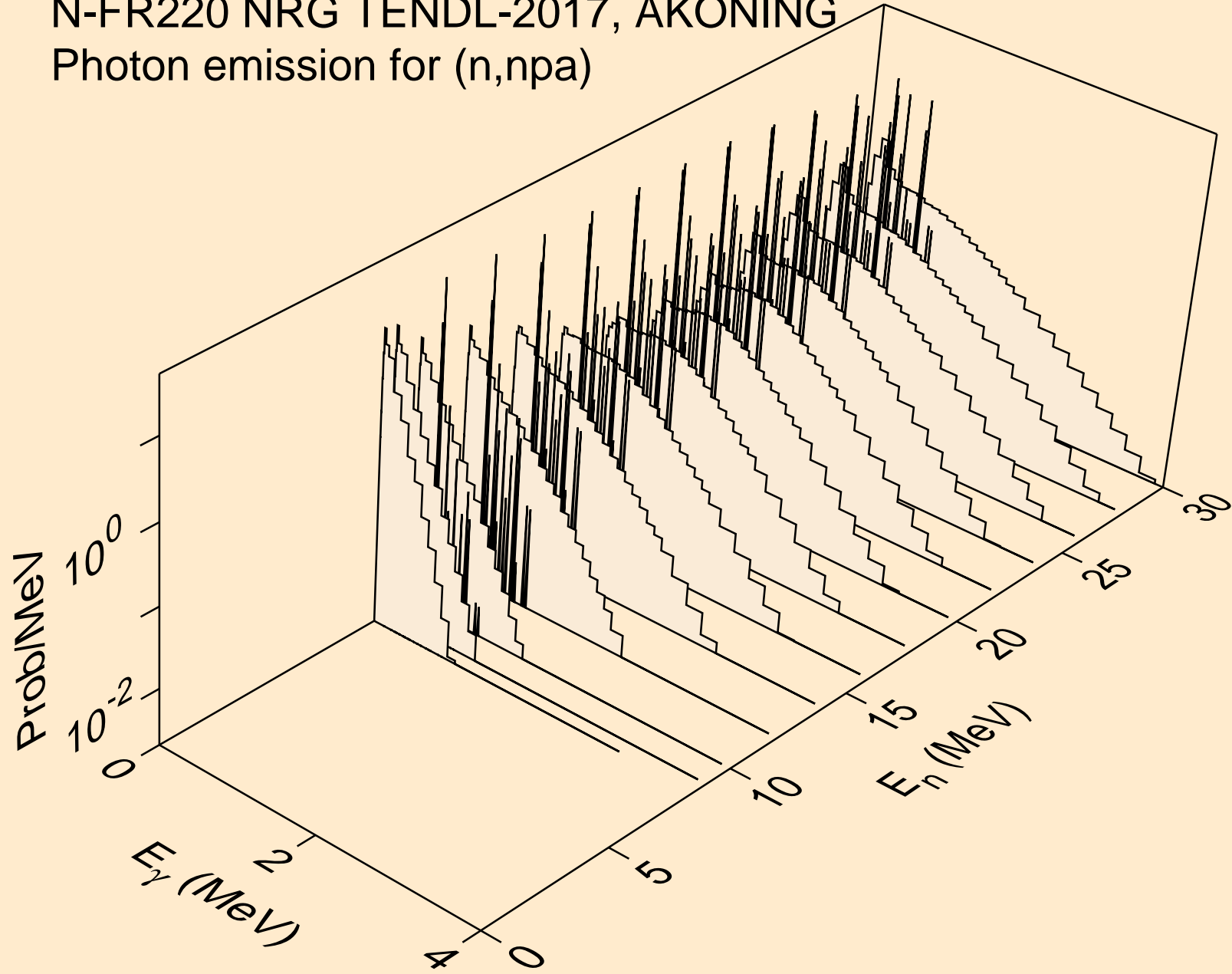
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Photon emission for (n,3np)



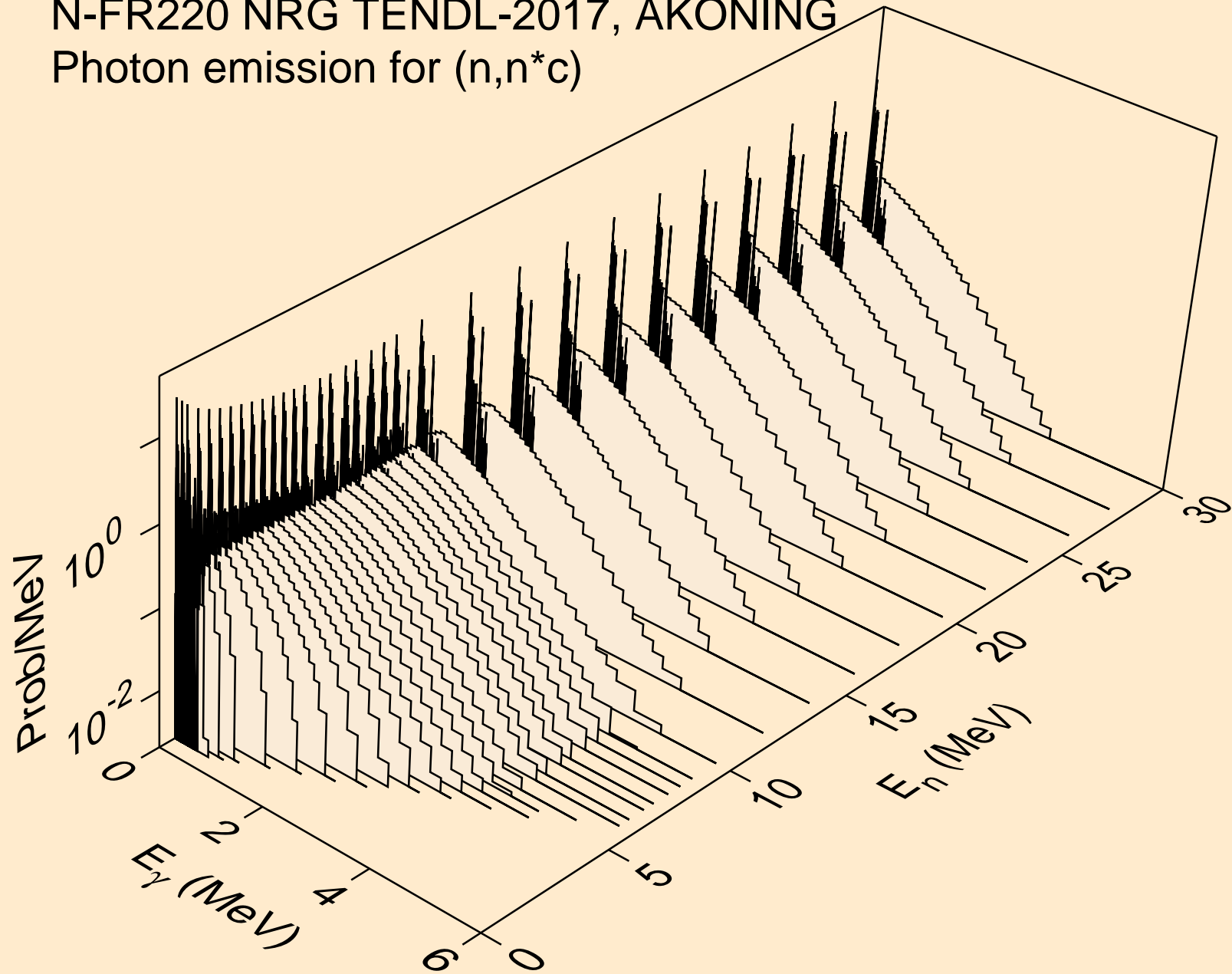
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Photon emission for (n,2np)



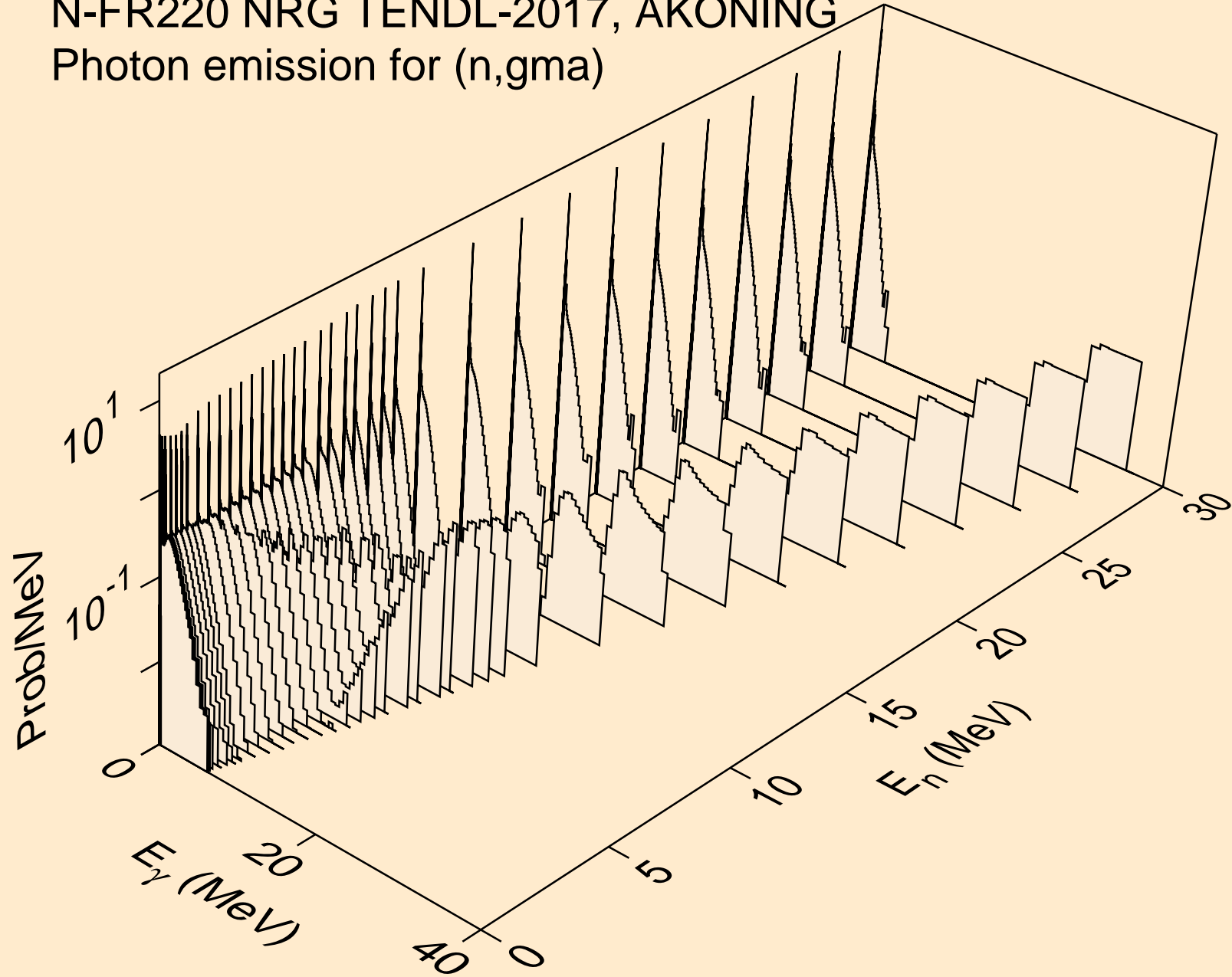
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,npa)



N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,n\*c)

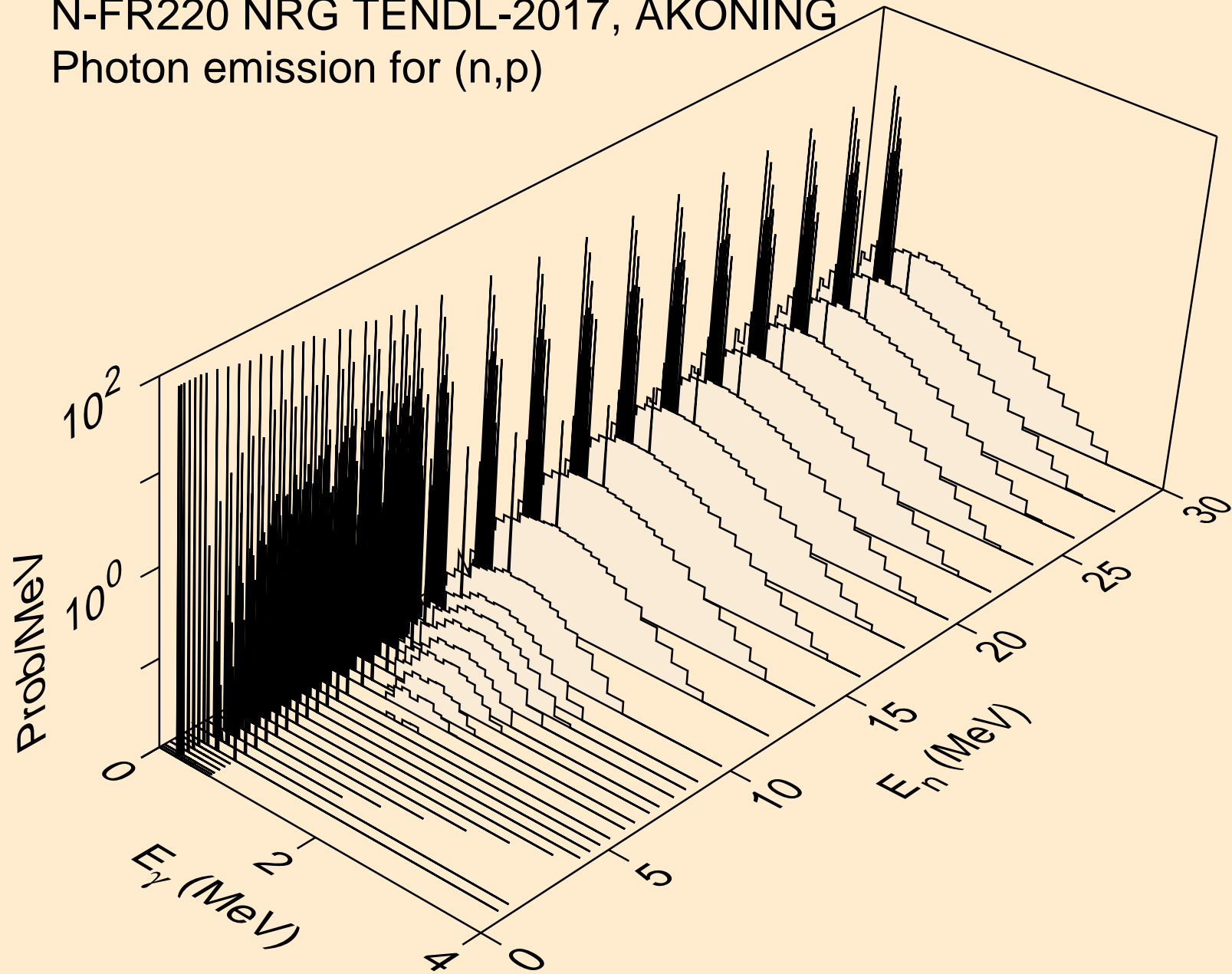


N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,gma)

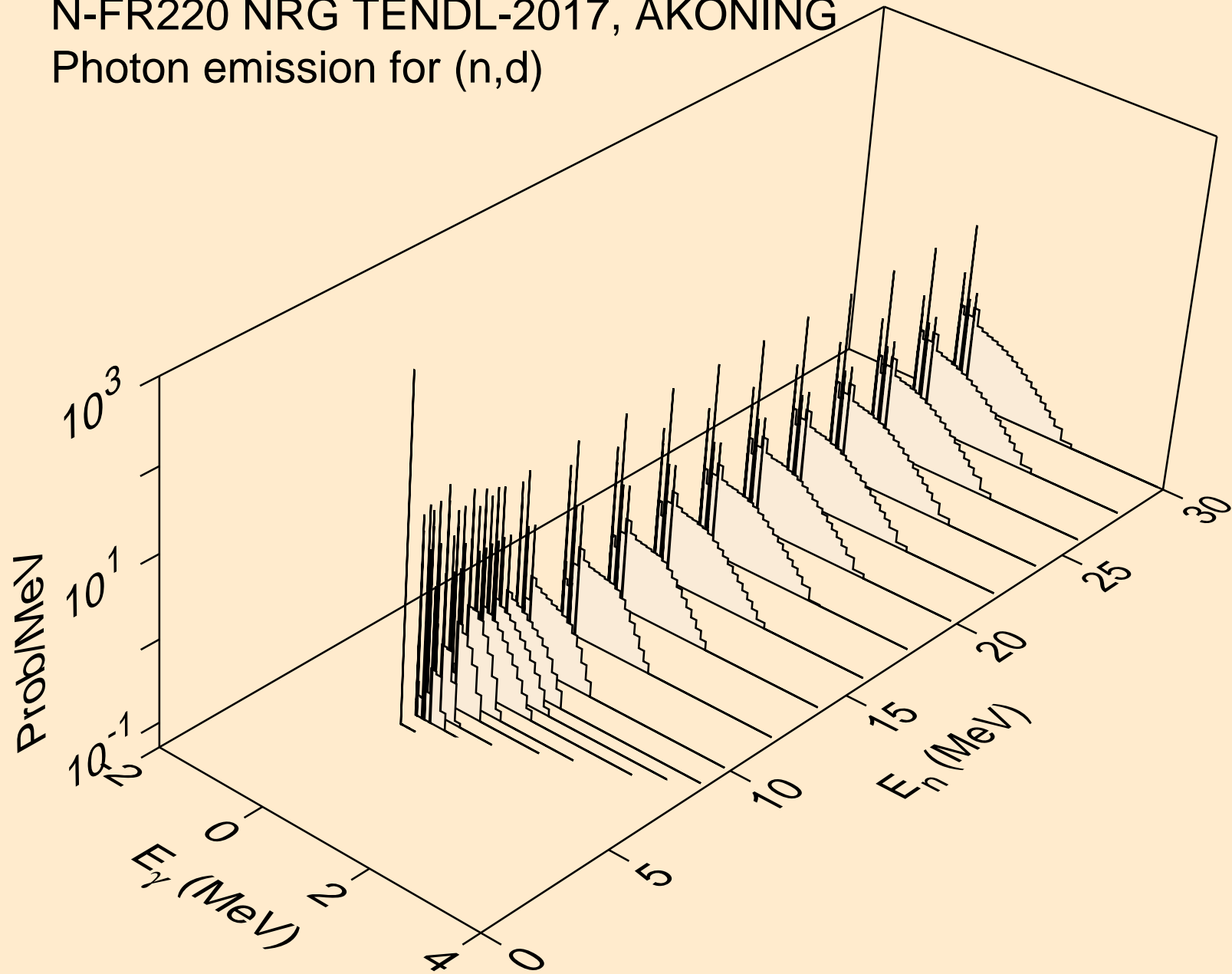




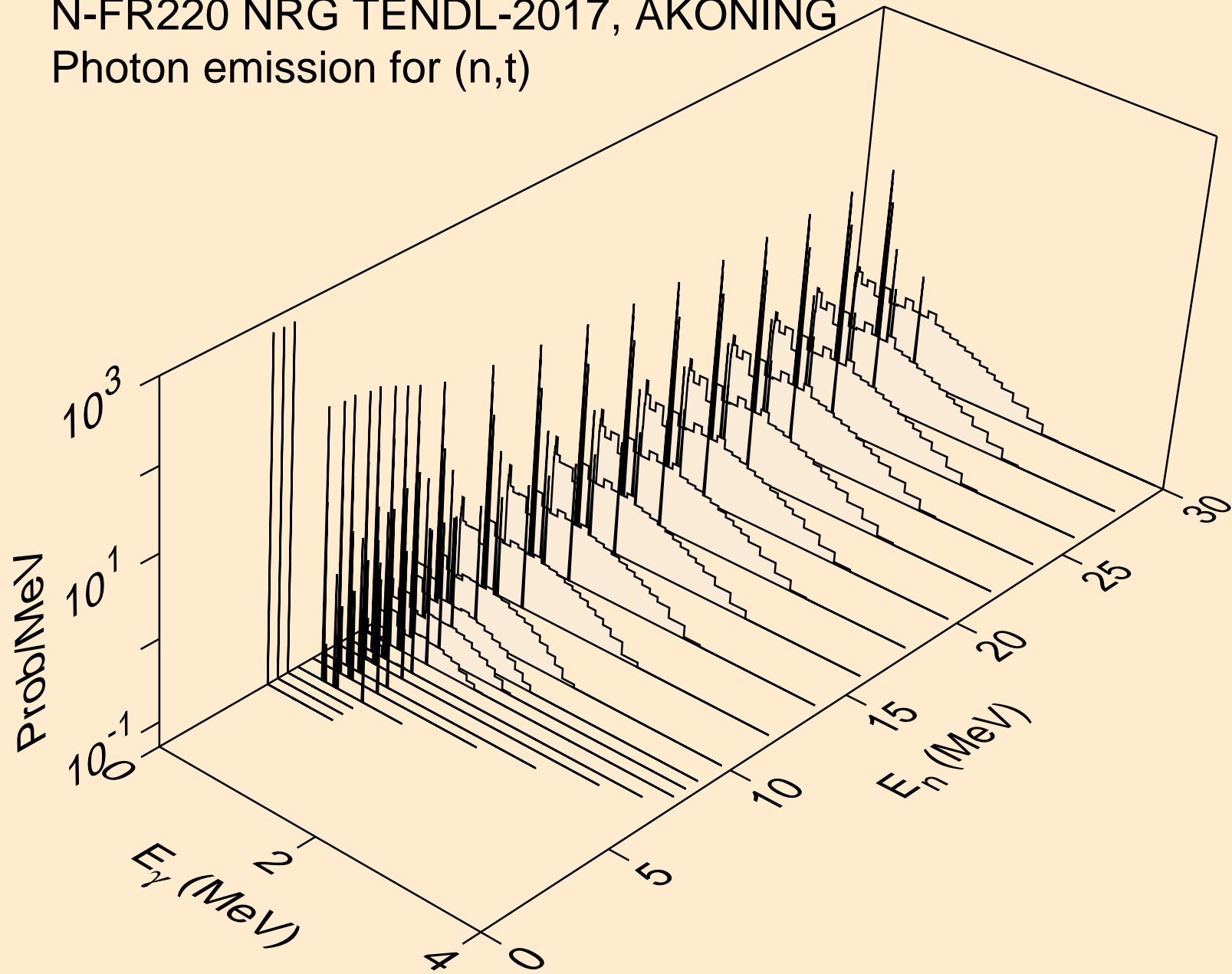
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,p)



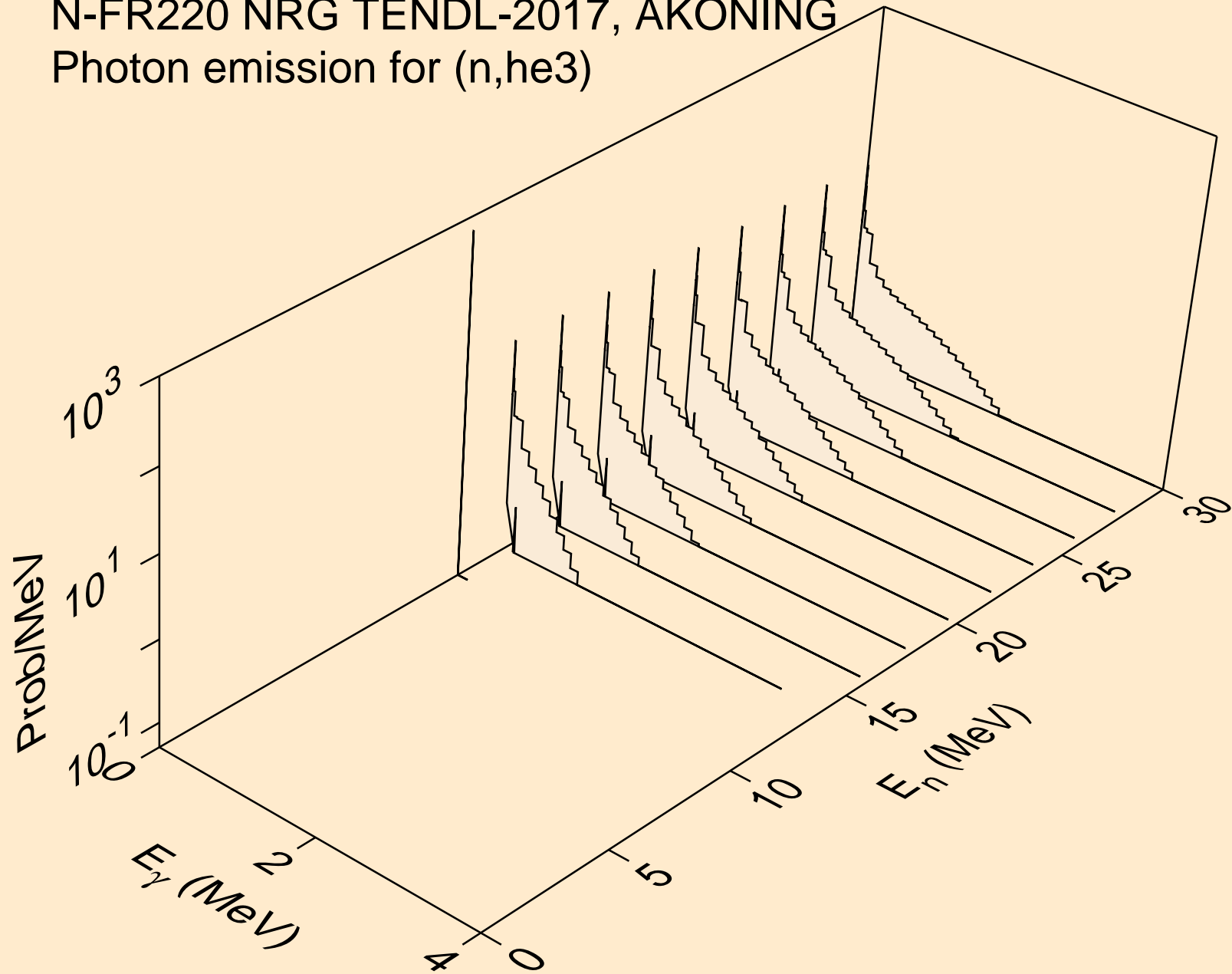
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Photon emission for (n,d)



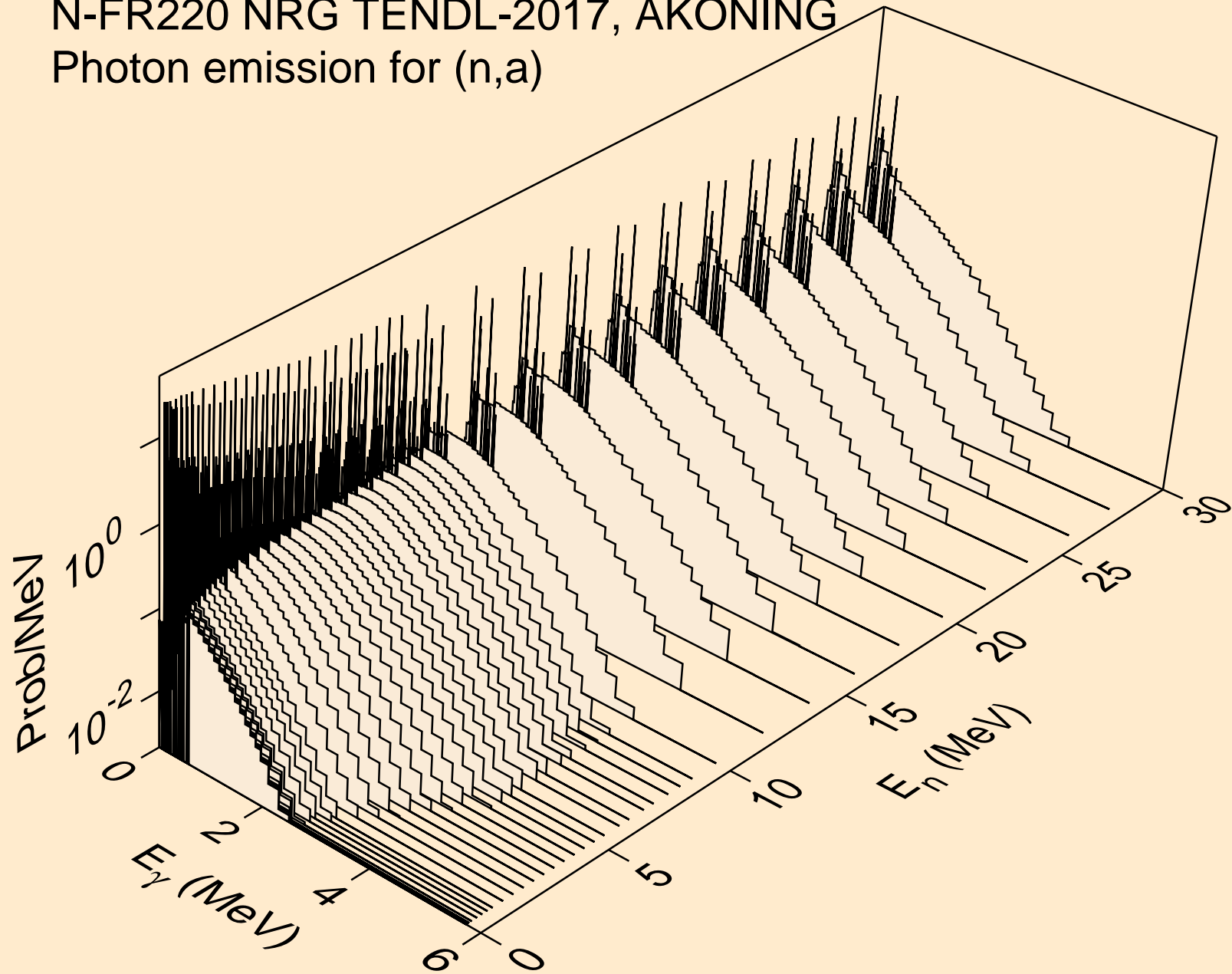
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Photon emission for (n,t)



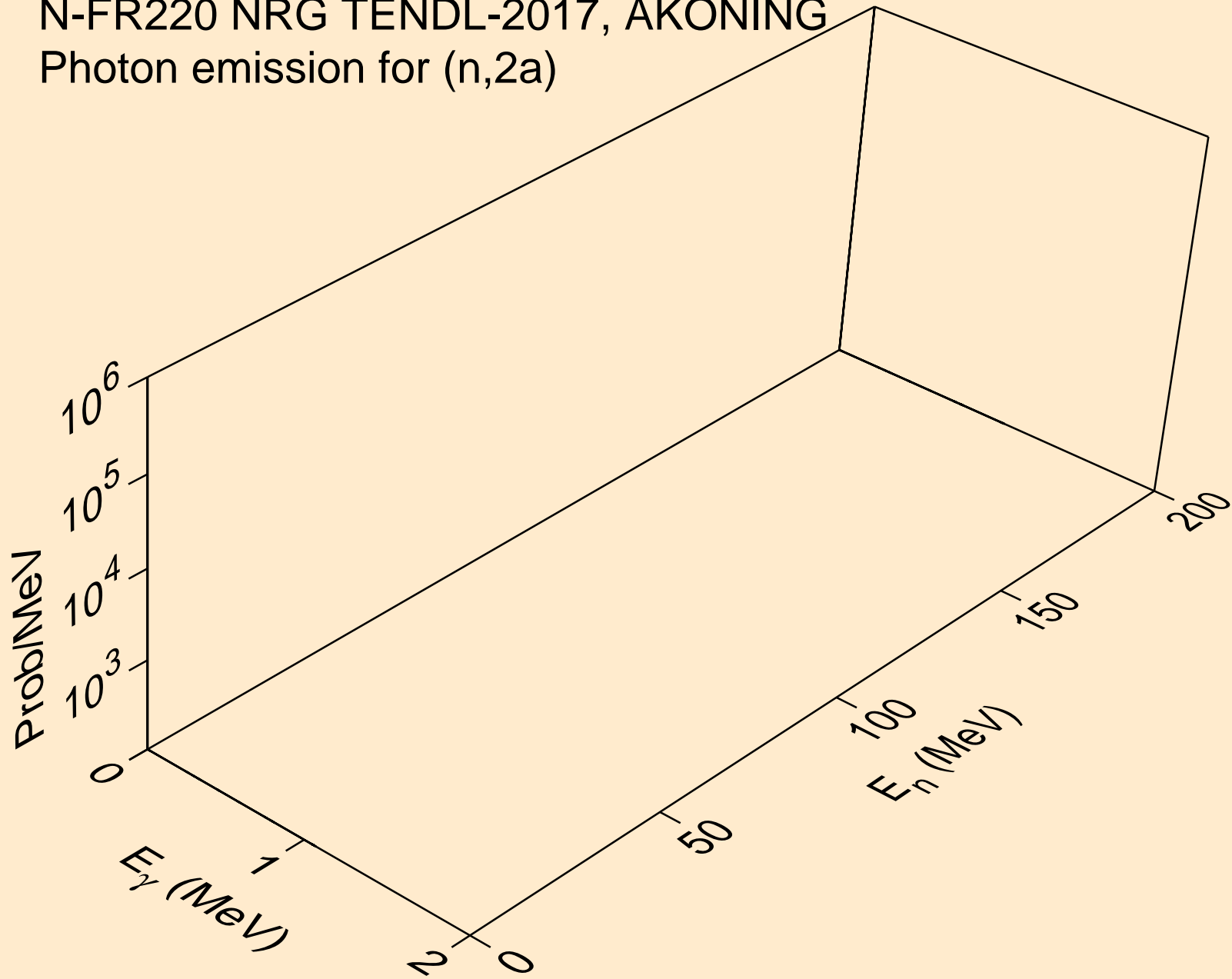
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Photon emission for (n,he3)



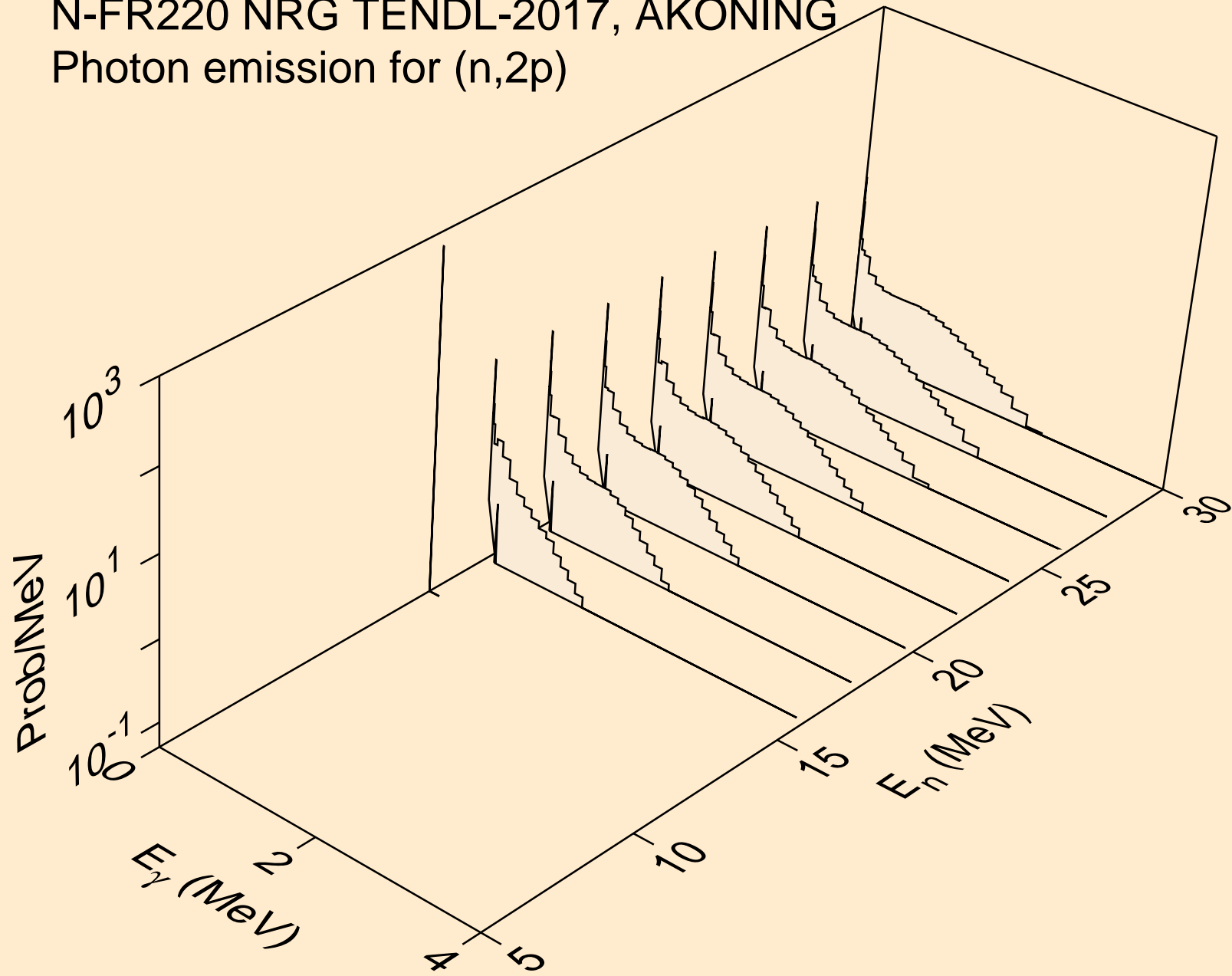
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,a)



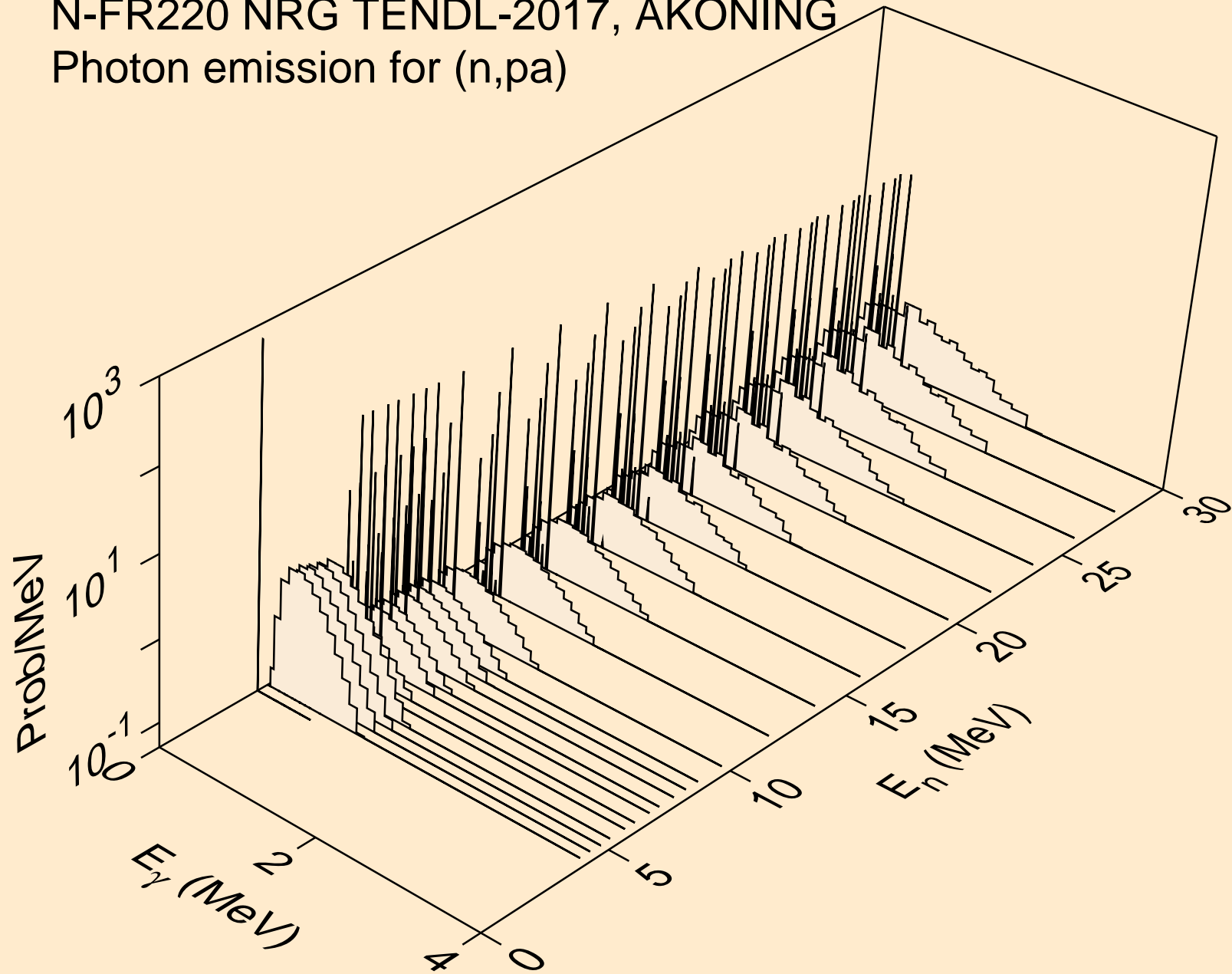
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,2a)



N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,2p)

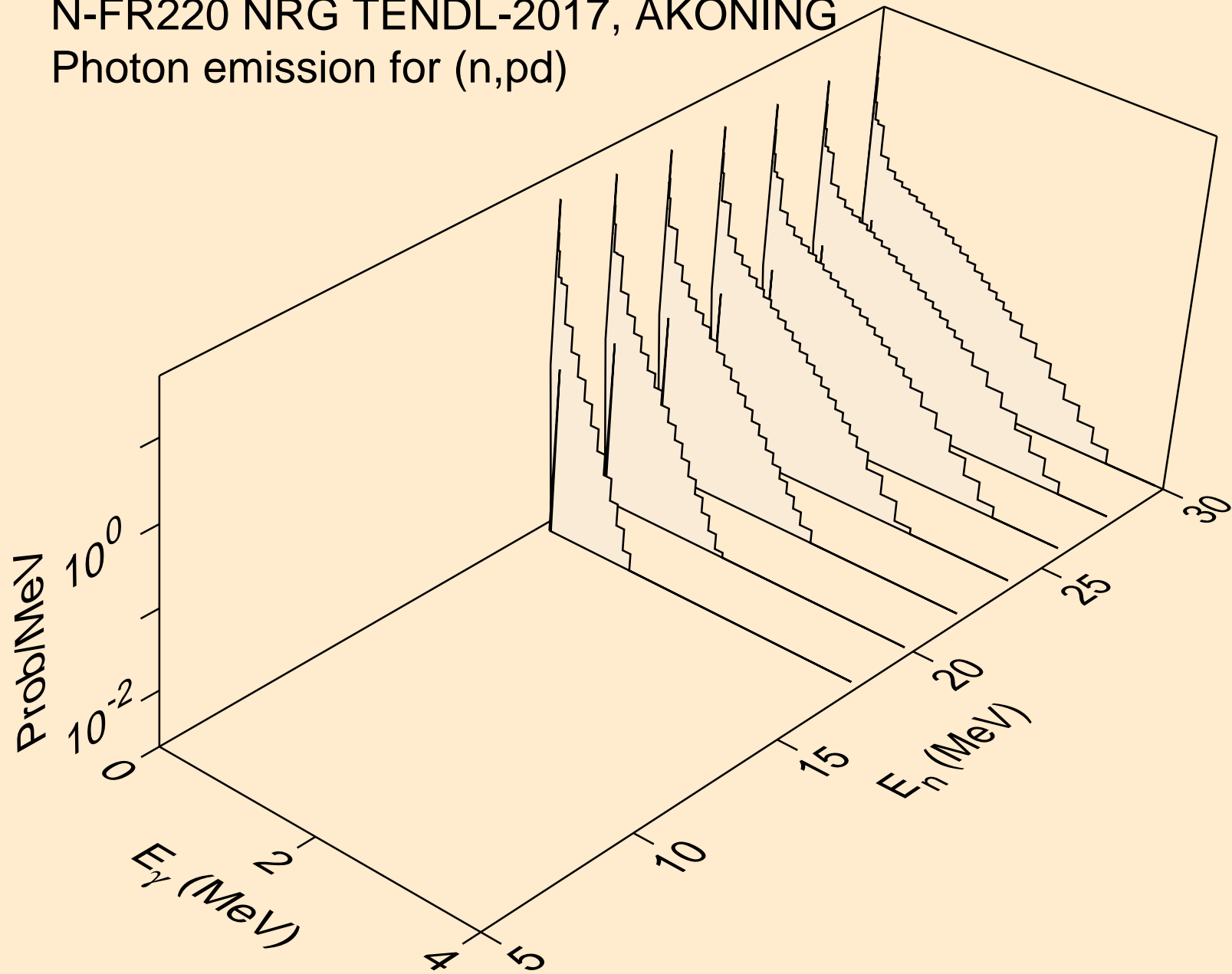


N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,pa)

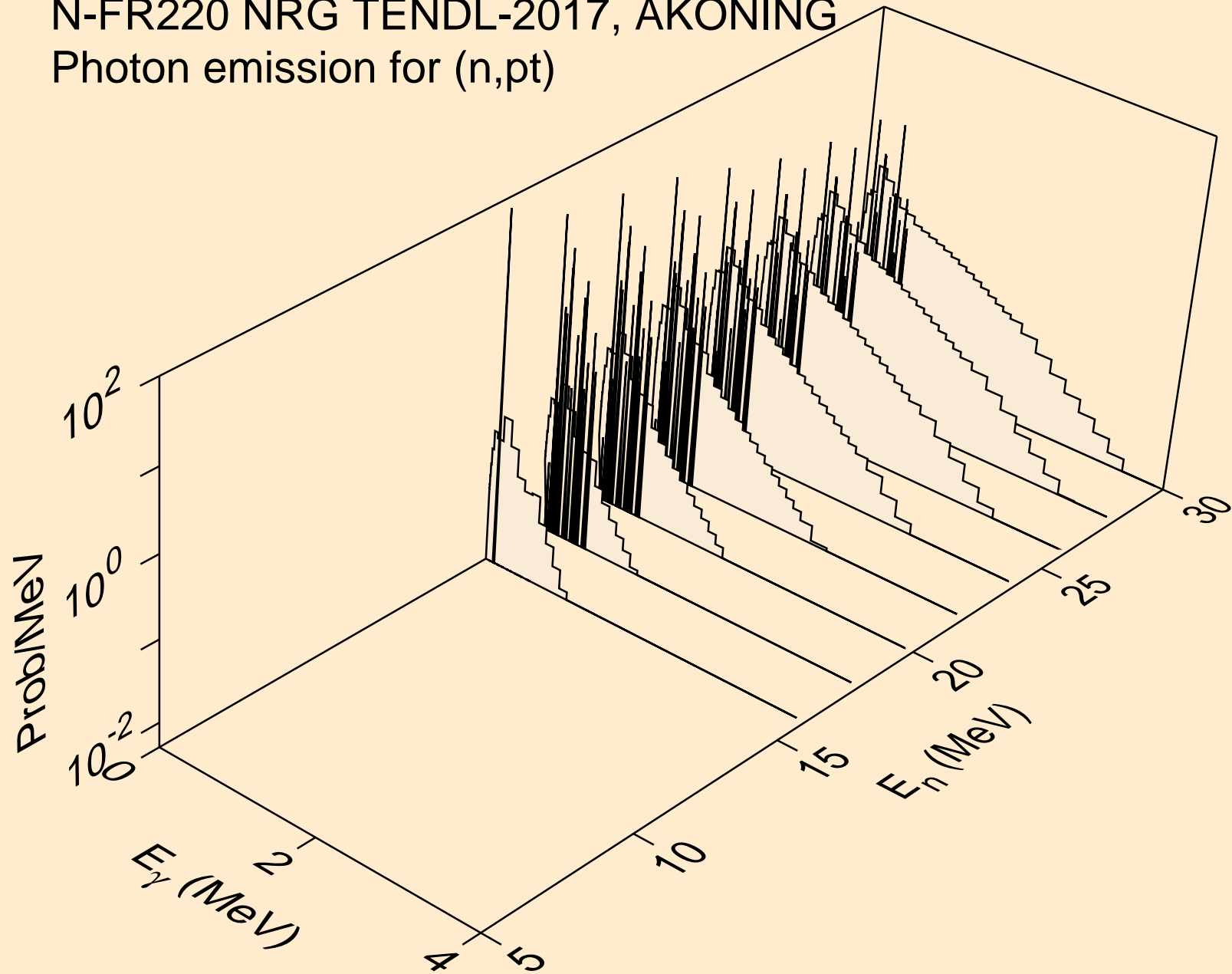




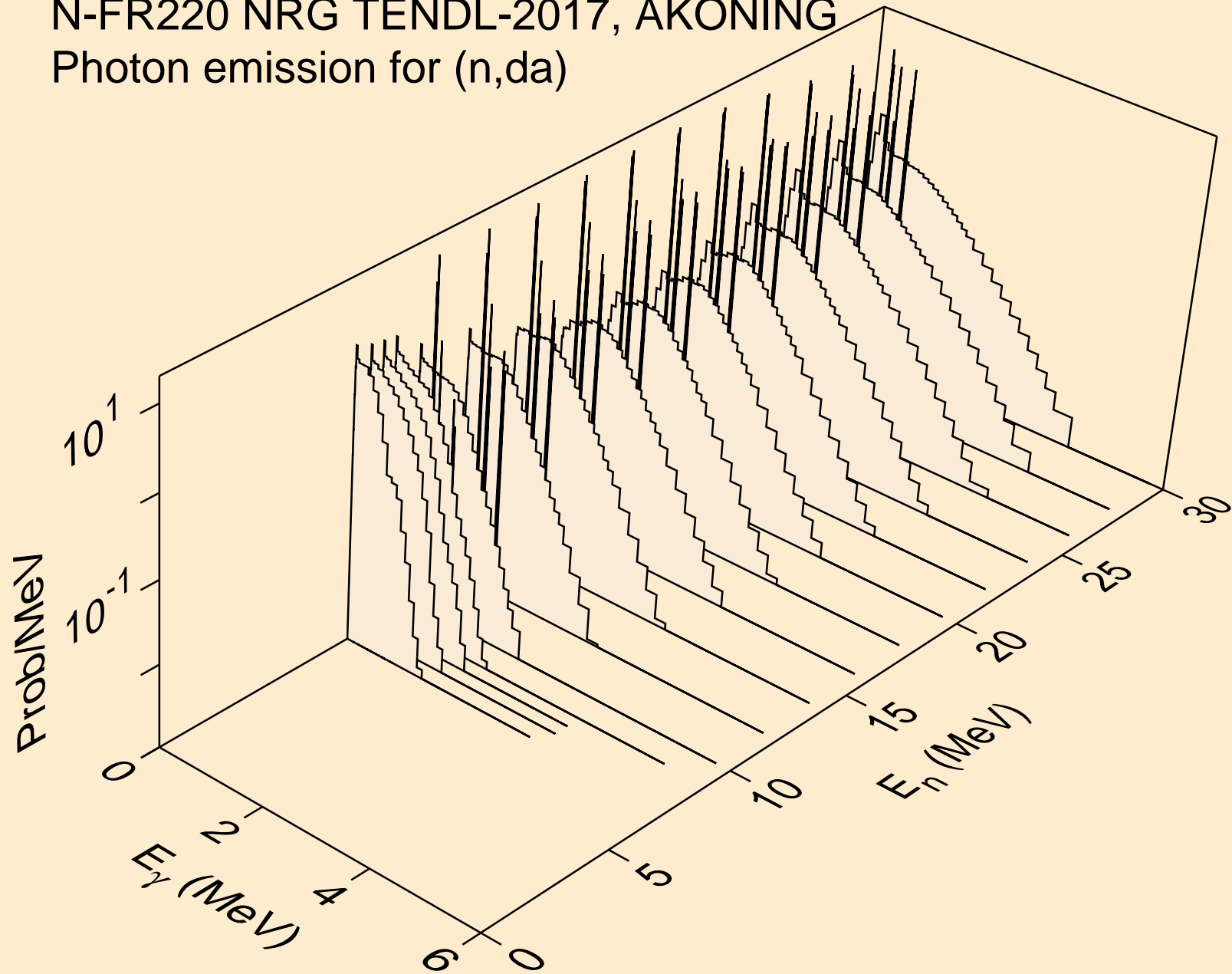
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,pd)



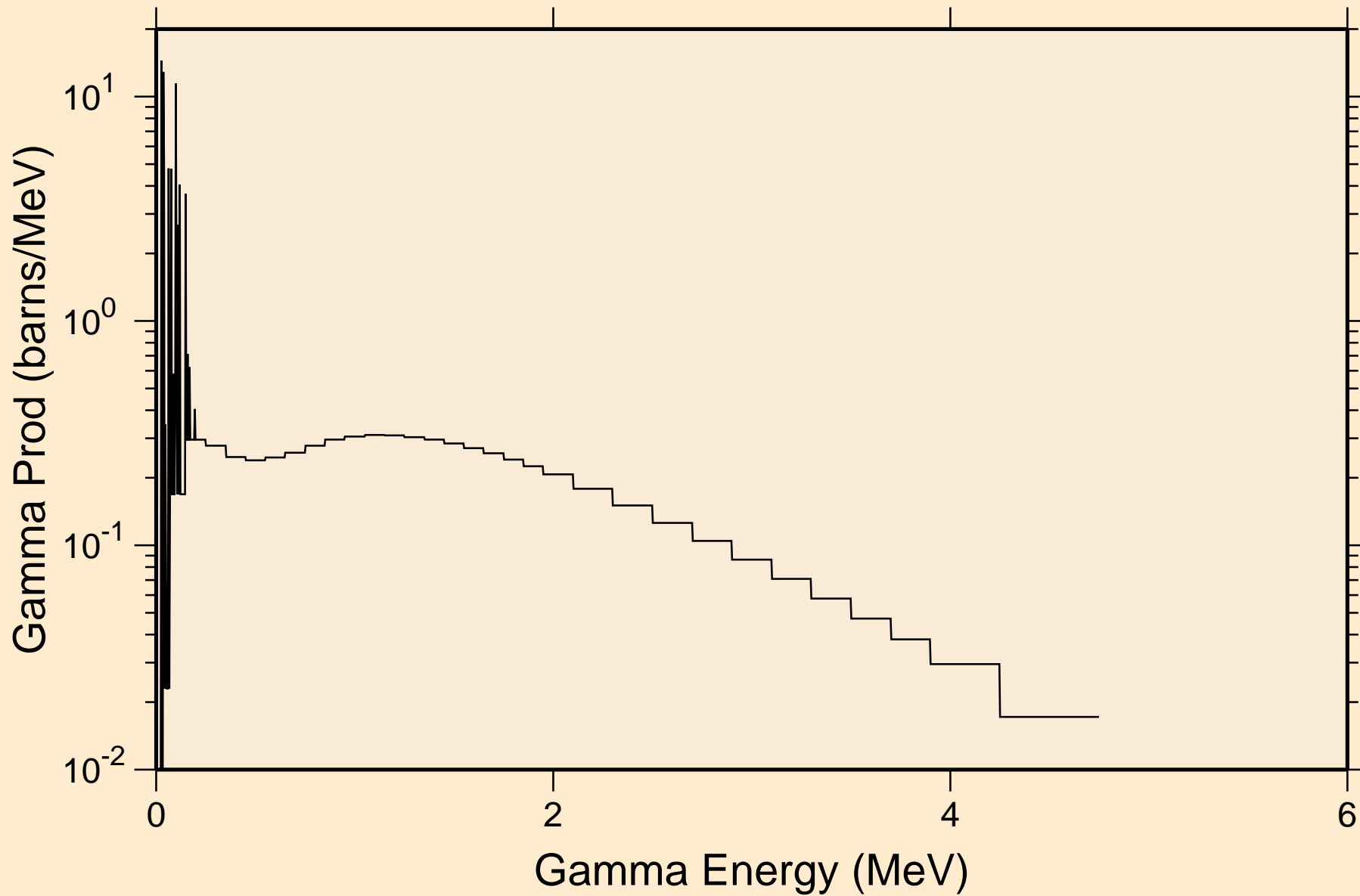
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,pt)



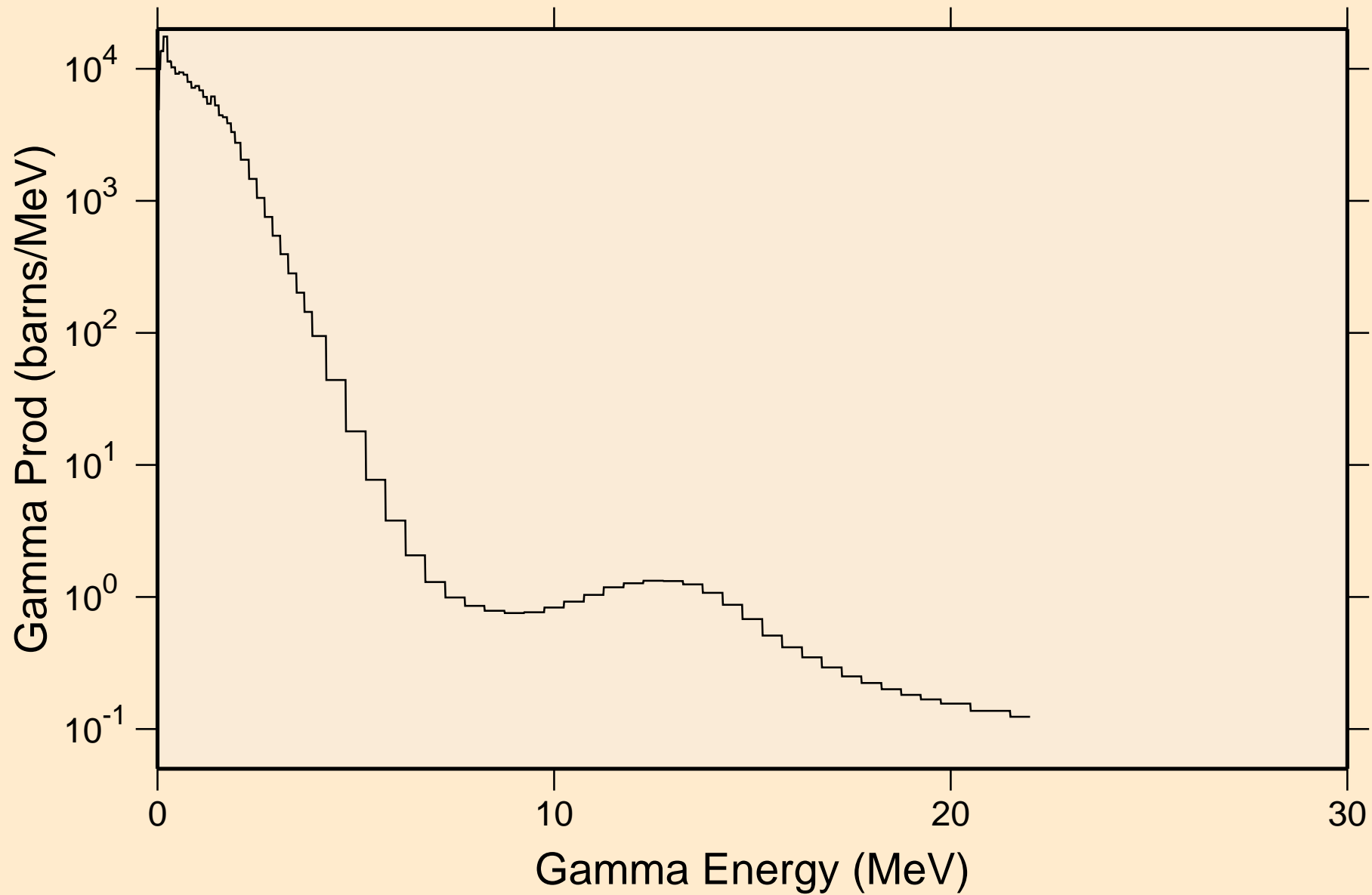
N-FR220 NRG TENDL-2017, AKONING  
Photon emission for (n,da)



N-FR220 NRG TENDL-2017, AKONING  
thermal capture photon spectrum

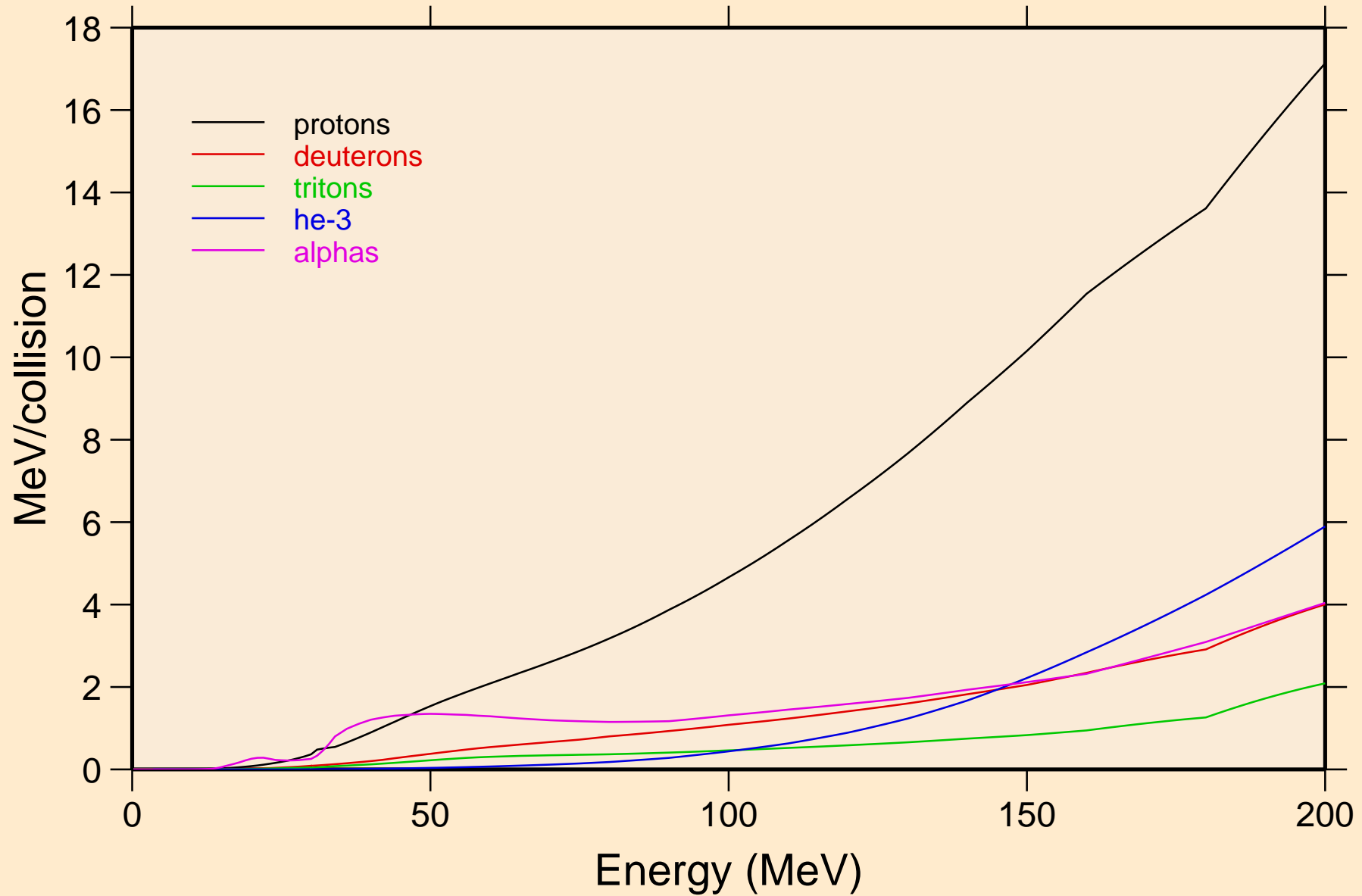


N-FR220 NRG TENDL-2017, AKONING  
14 MeV photon spectrum



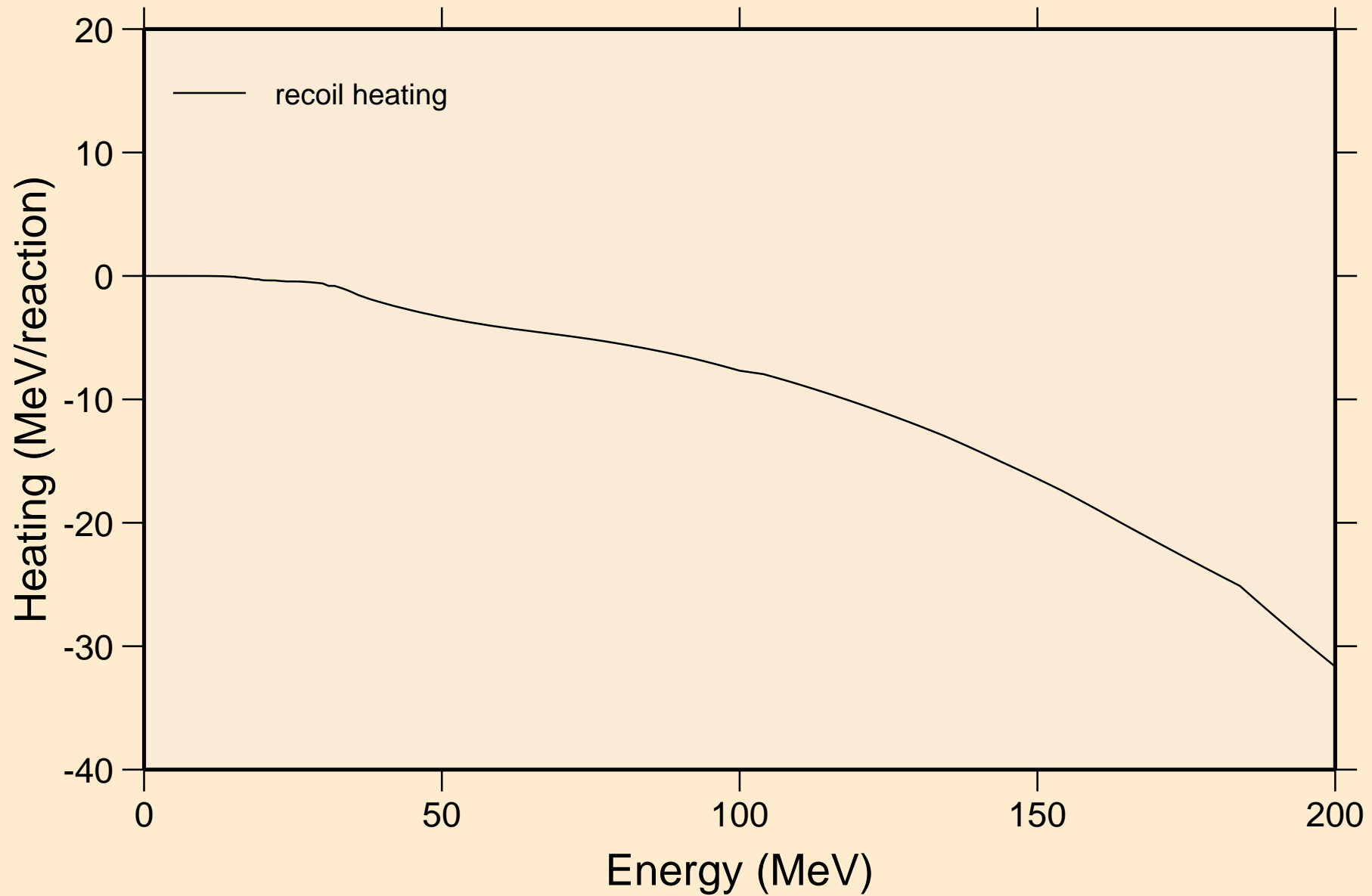
# N-FR220 NRG TENDL-2017, AKONING

## Particle heating contributions



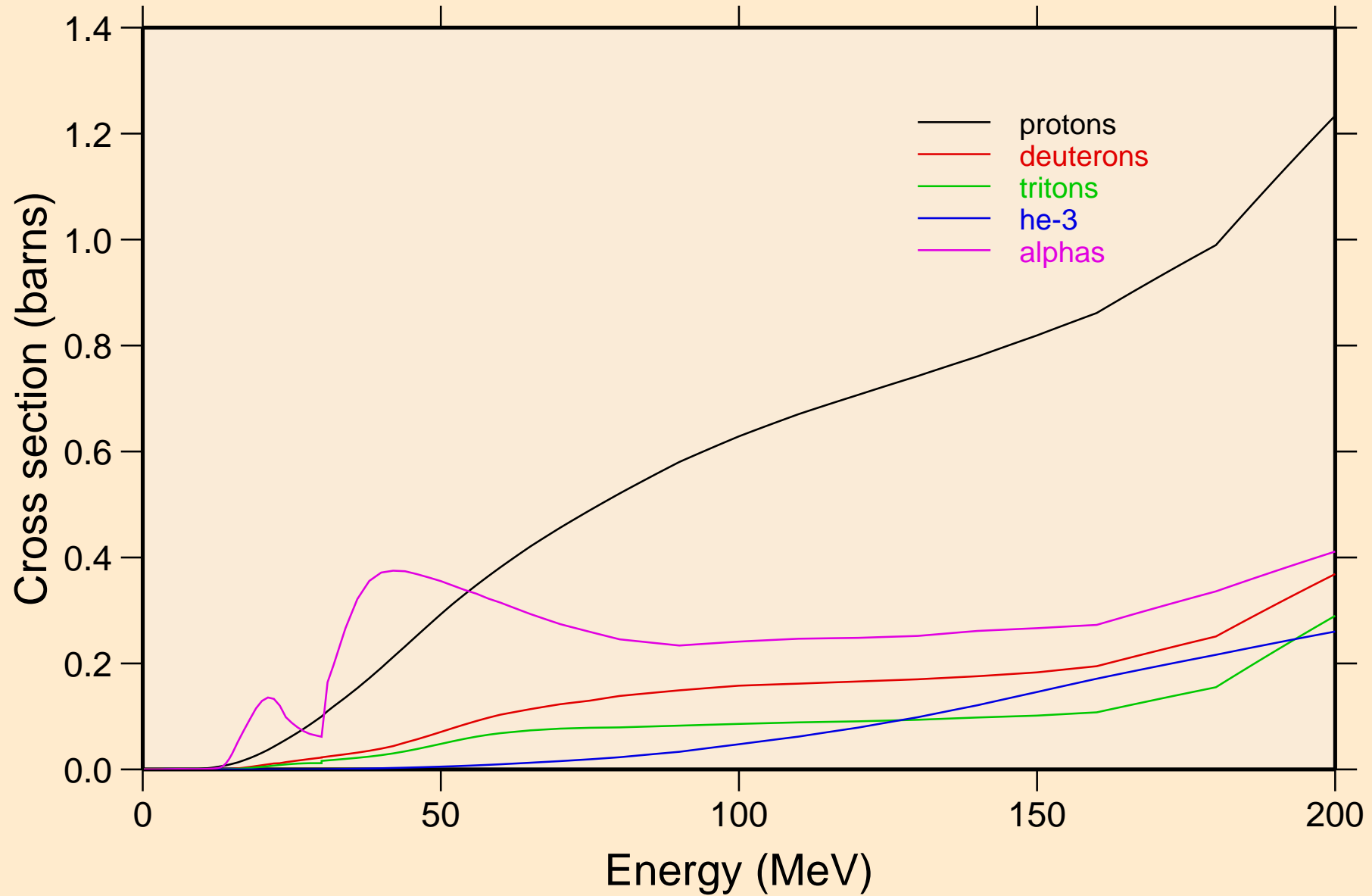
# N-FR220 NRG TENDL-2017, AKONING

## Recoil Heating



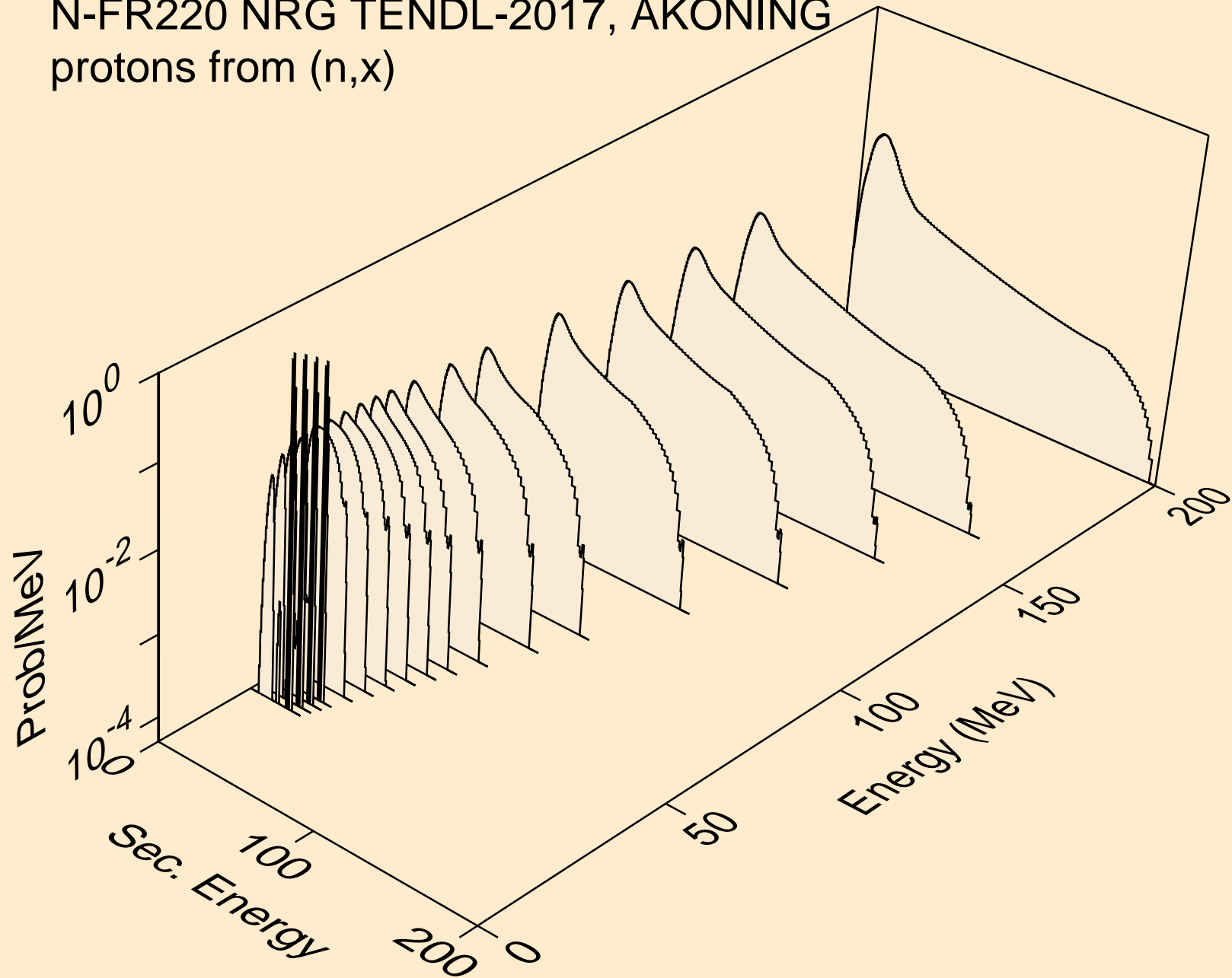
# N-FR220 NRG TENDL-2017, AKONING

## Particle production cross sections

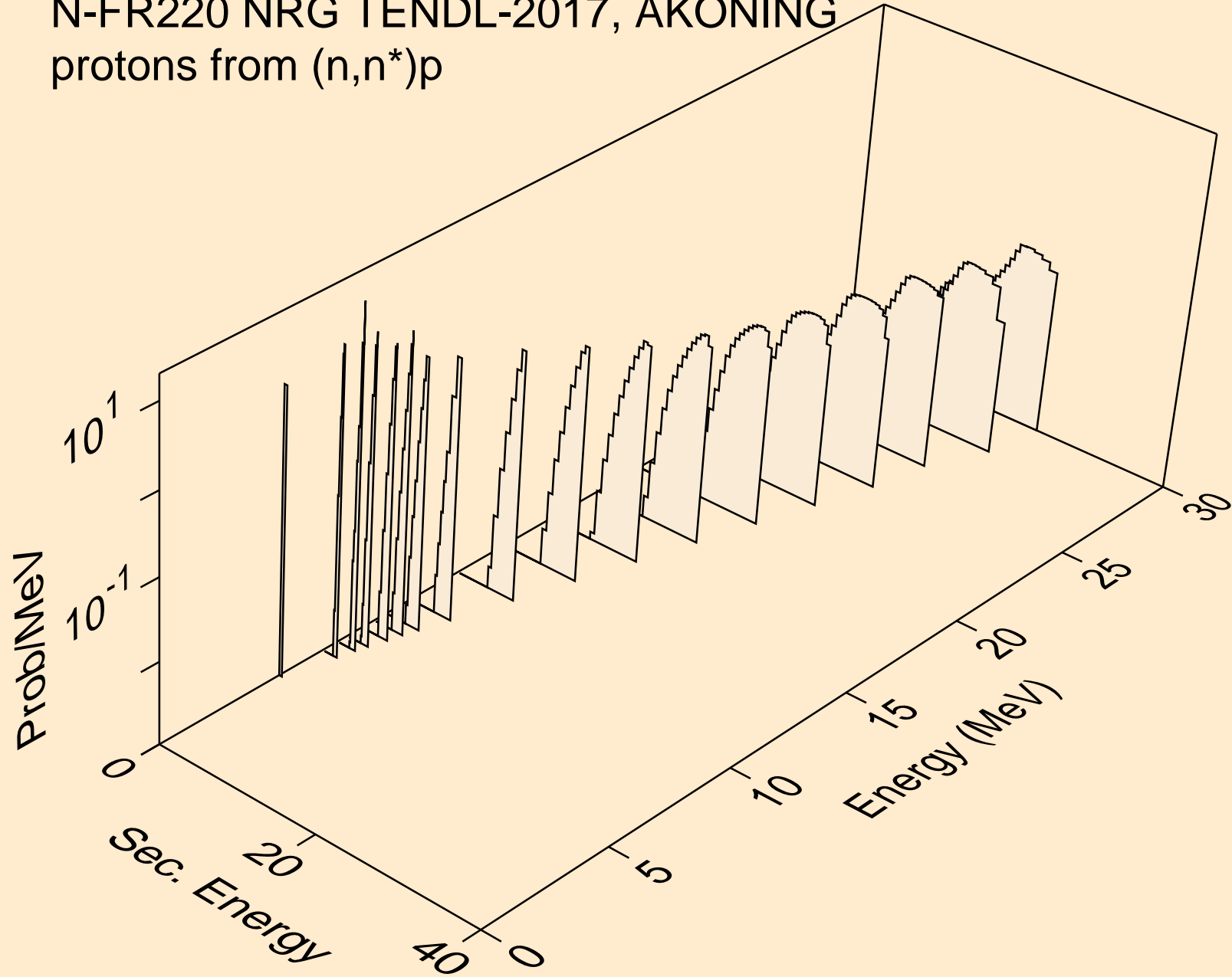




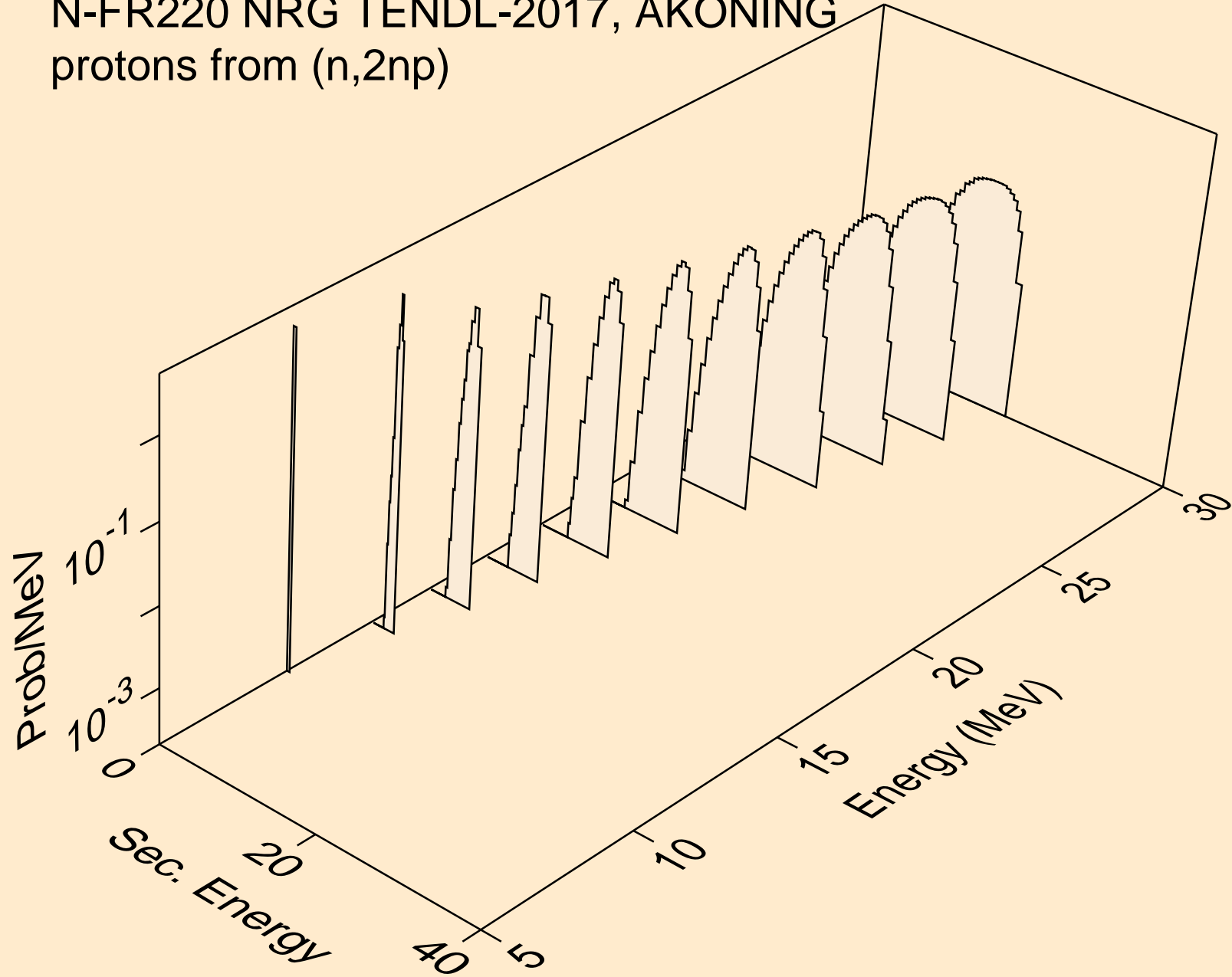
N-FR220 NRG TENDL-2017, AKONING  
protons from (n,x)



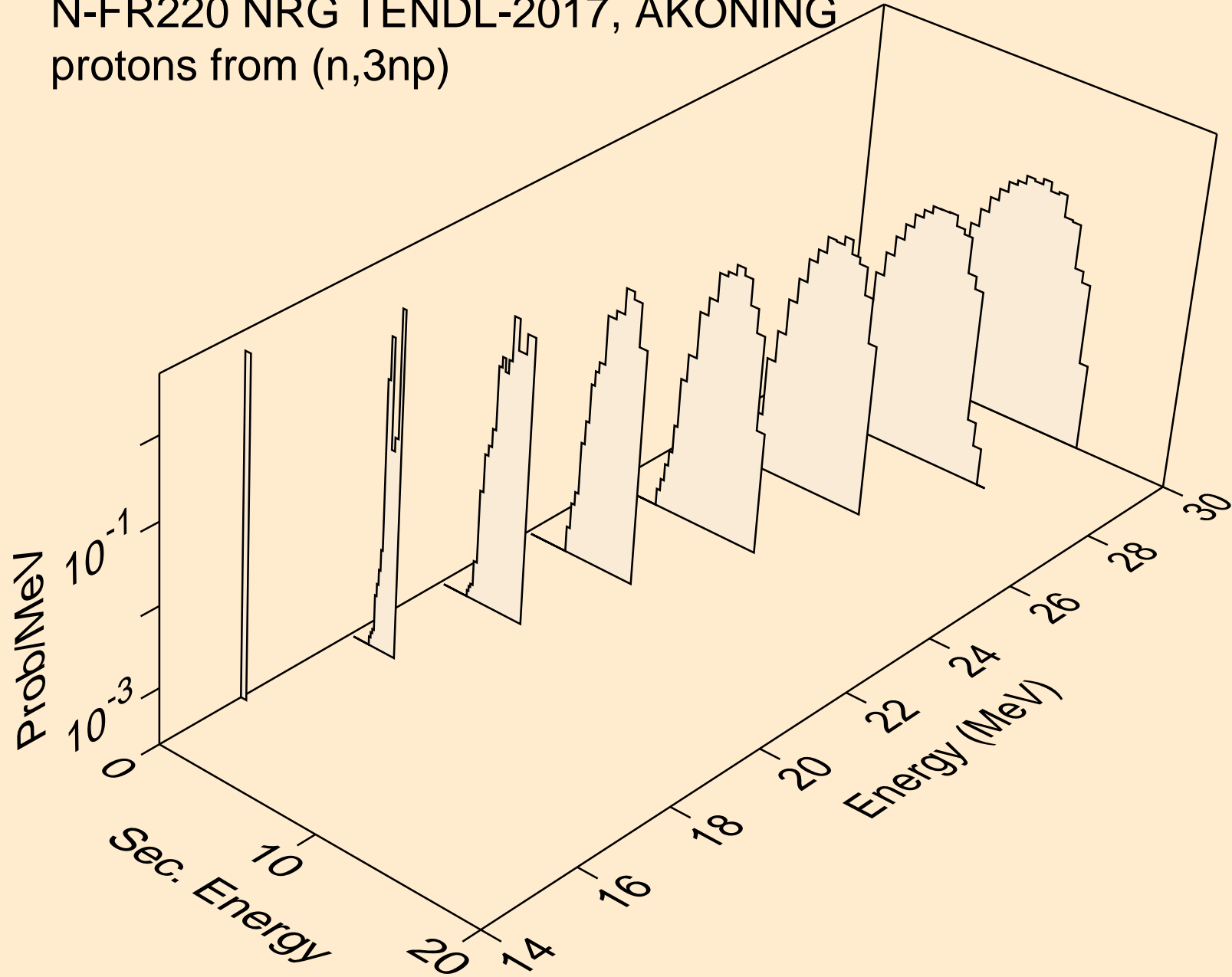
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protons from (n,n\*)p



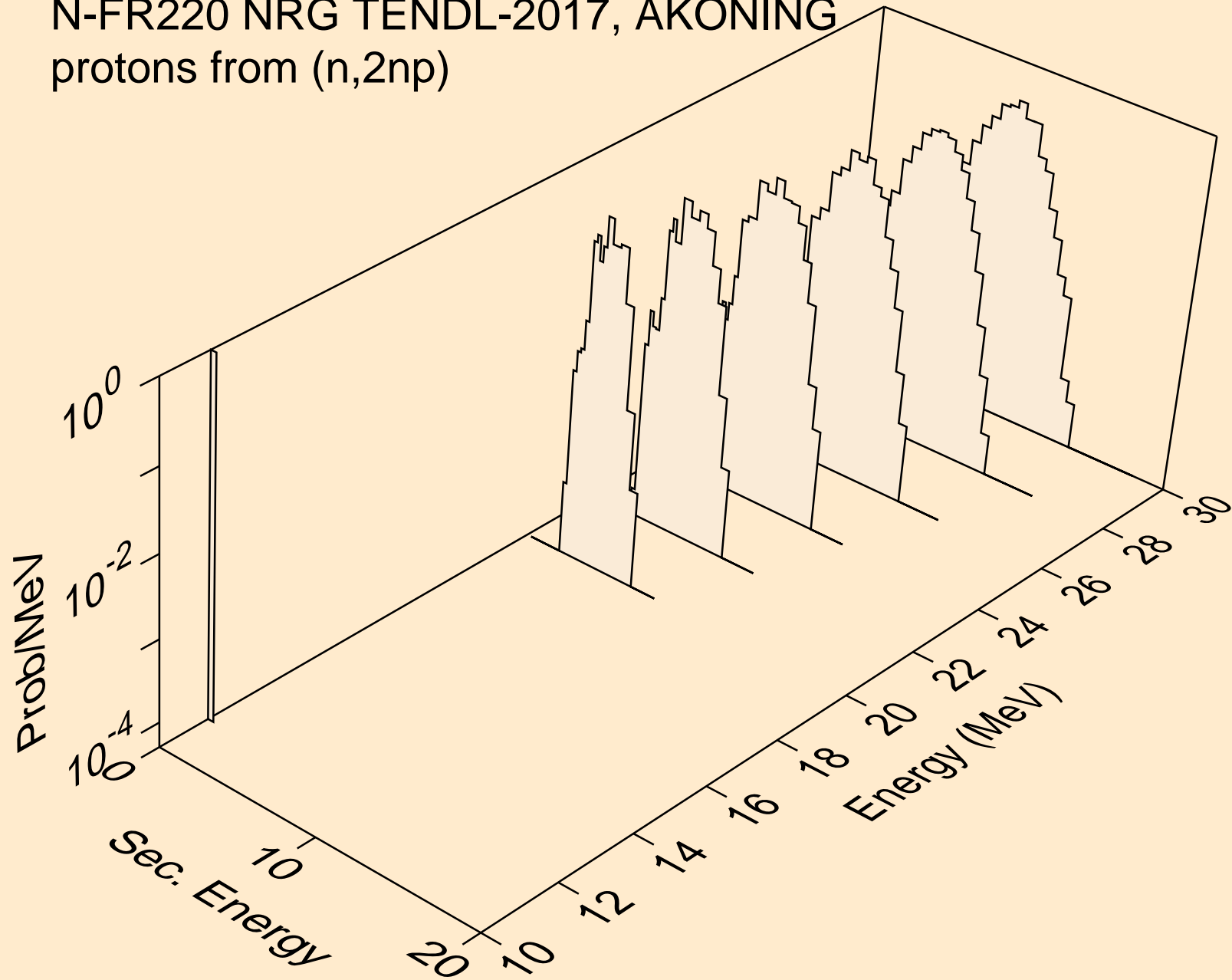
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protons from (n,2np)



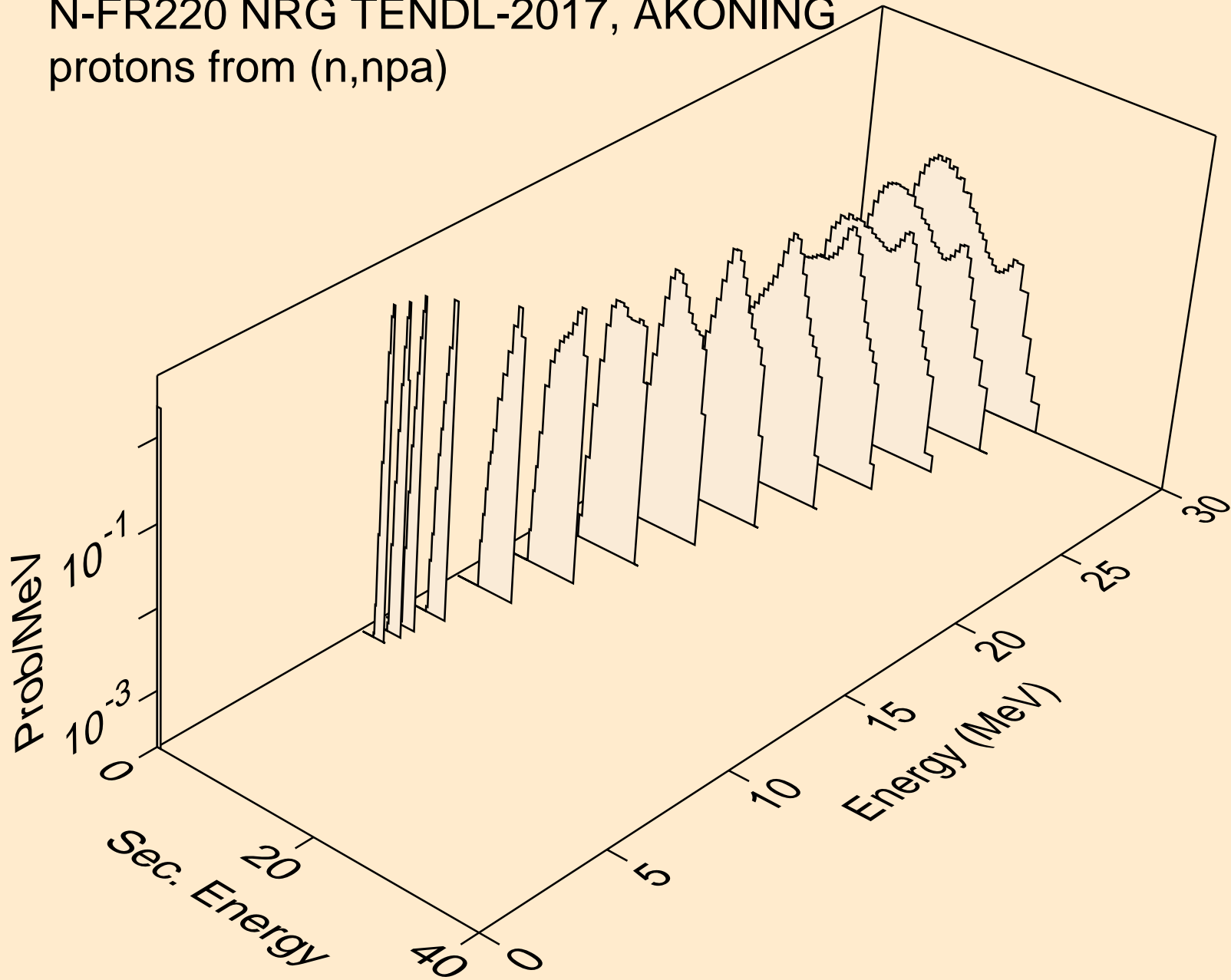
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protons from (n,3np)



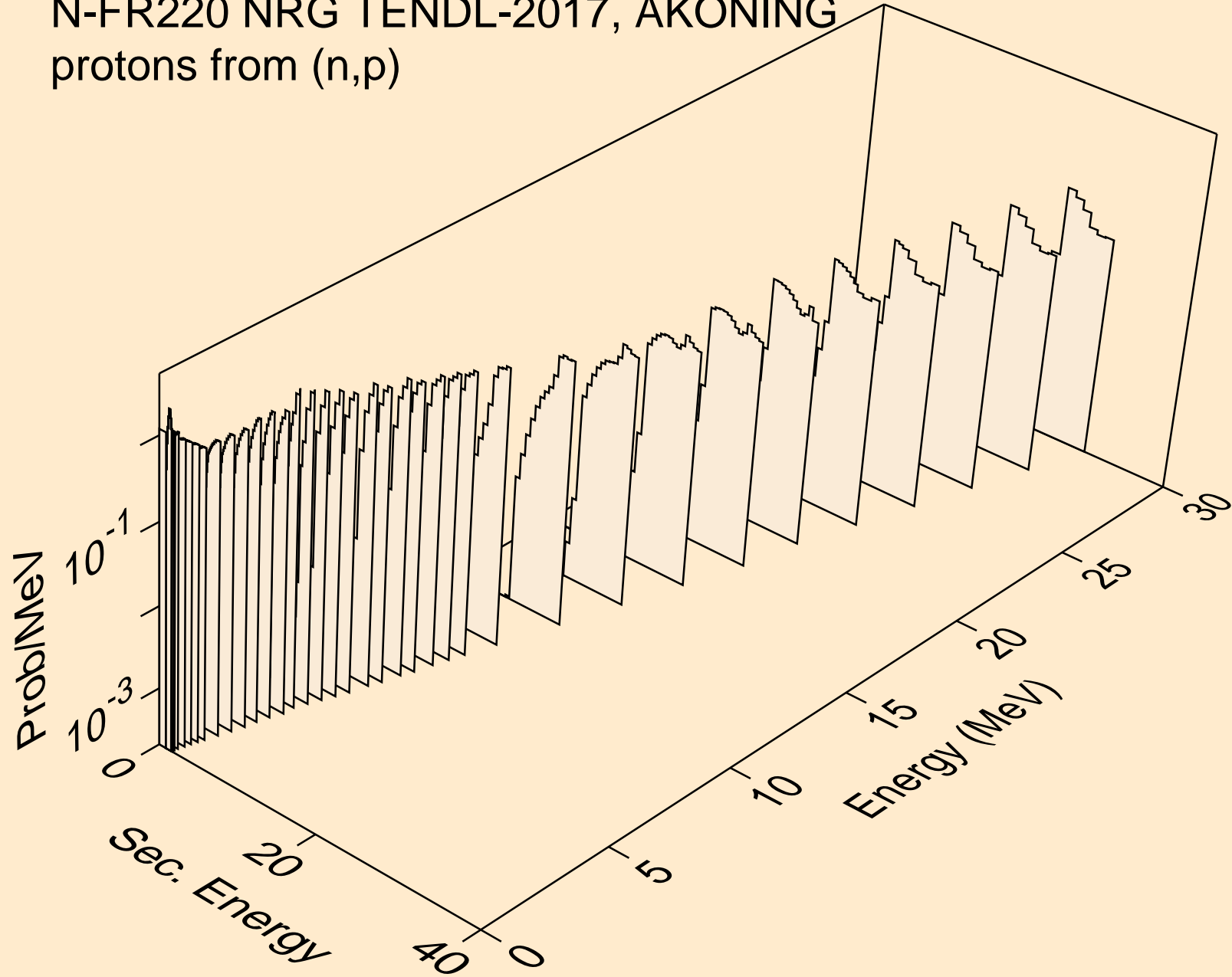
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protons from (n,2np)



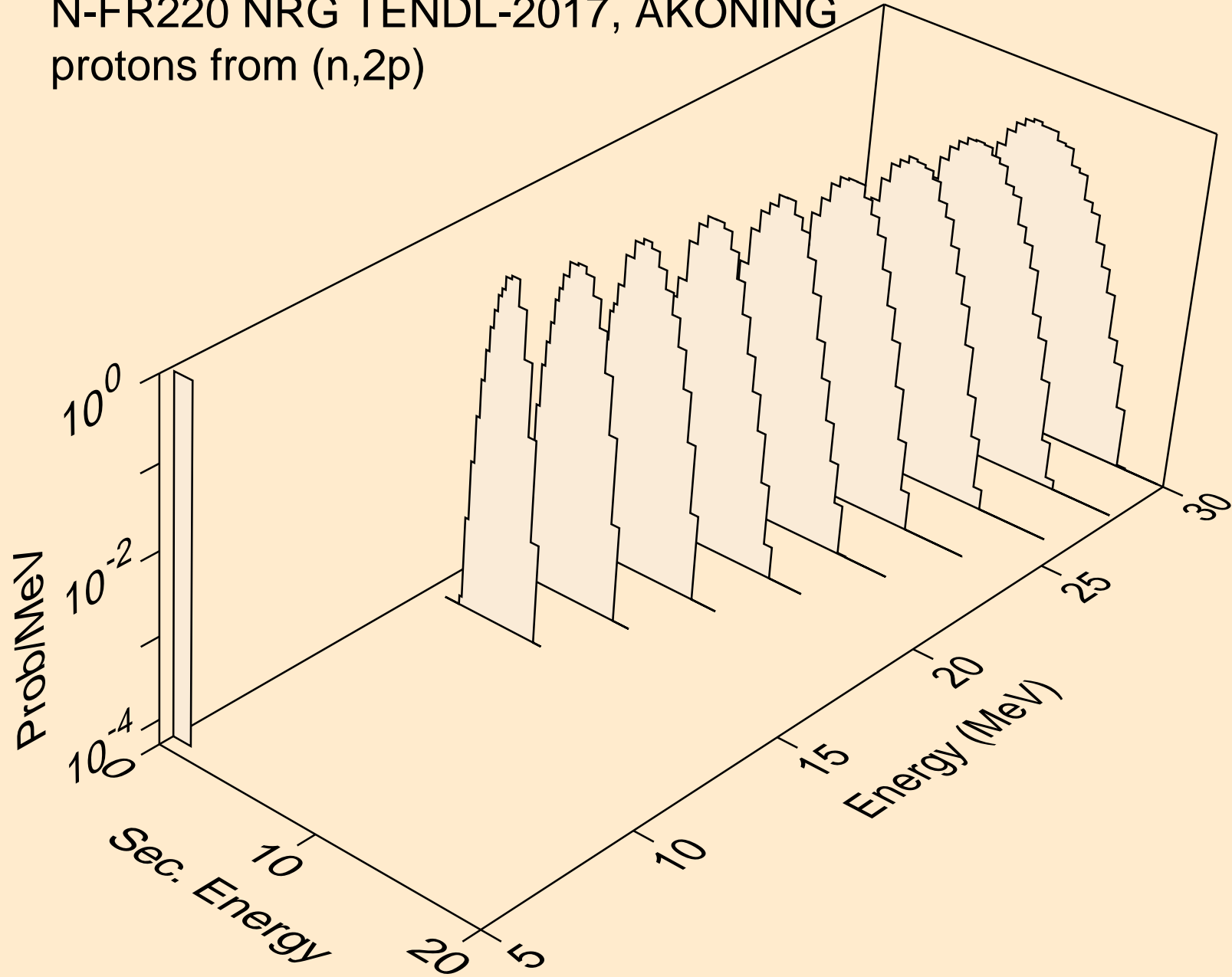
N-FR220 NRG TENDL-2017, AKONING  
protons from (n,npa)



N-FR220 NRG TENDL-2017, AKONING  
protons from (n,p)

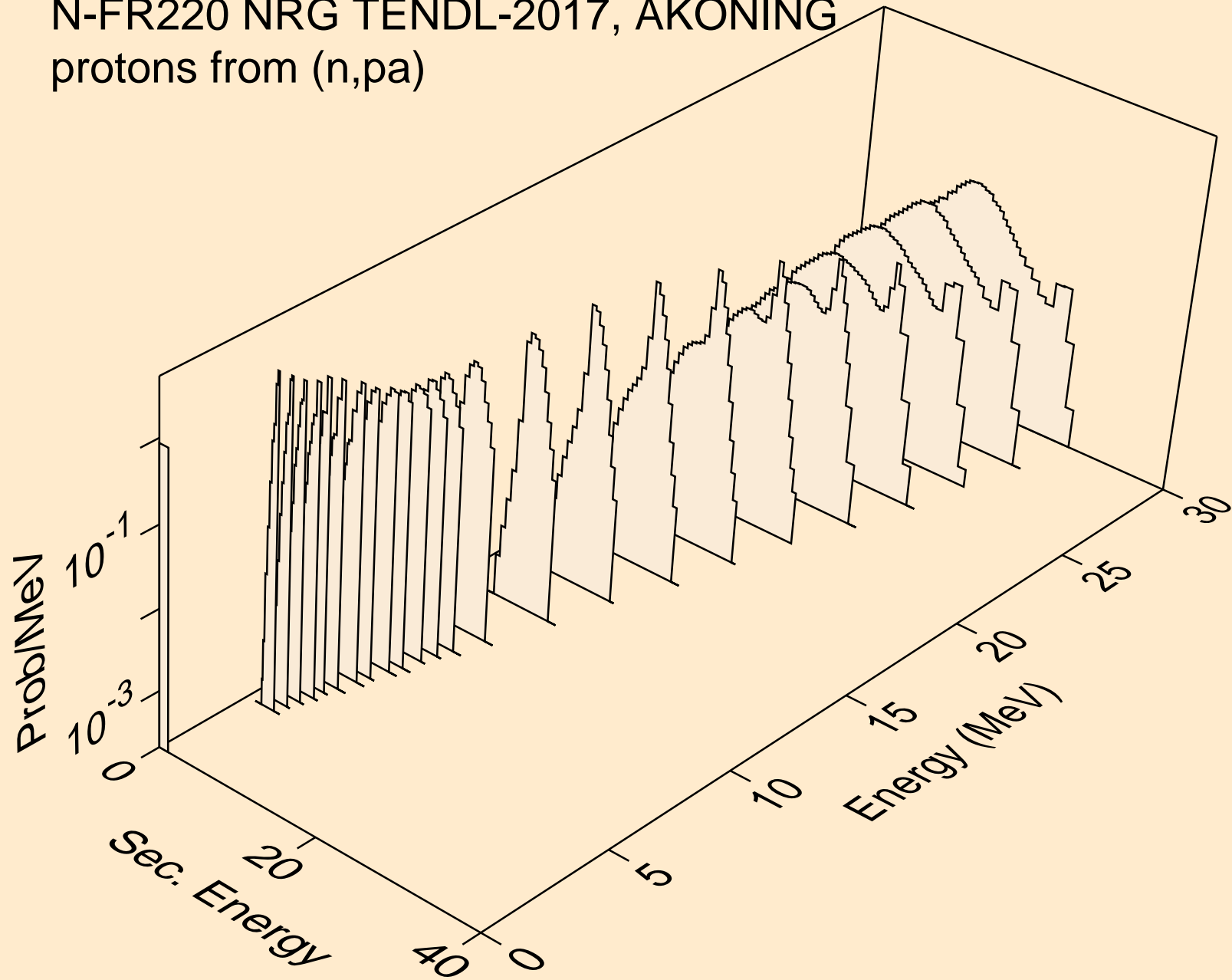


N-FR220 NRG TENDL-2017, AKONING  
protons from (n,2p)

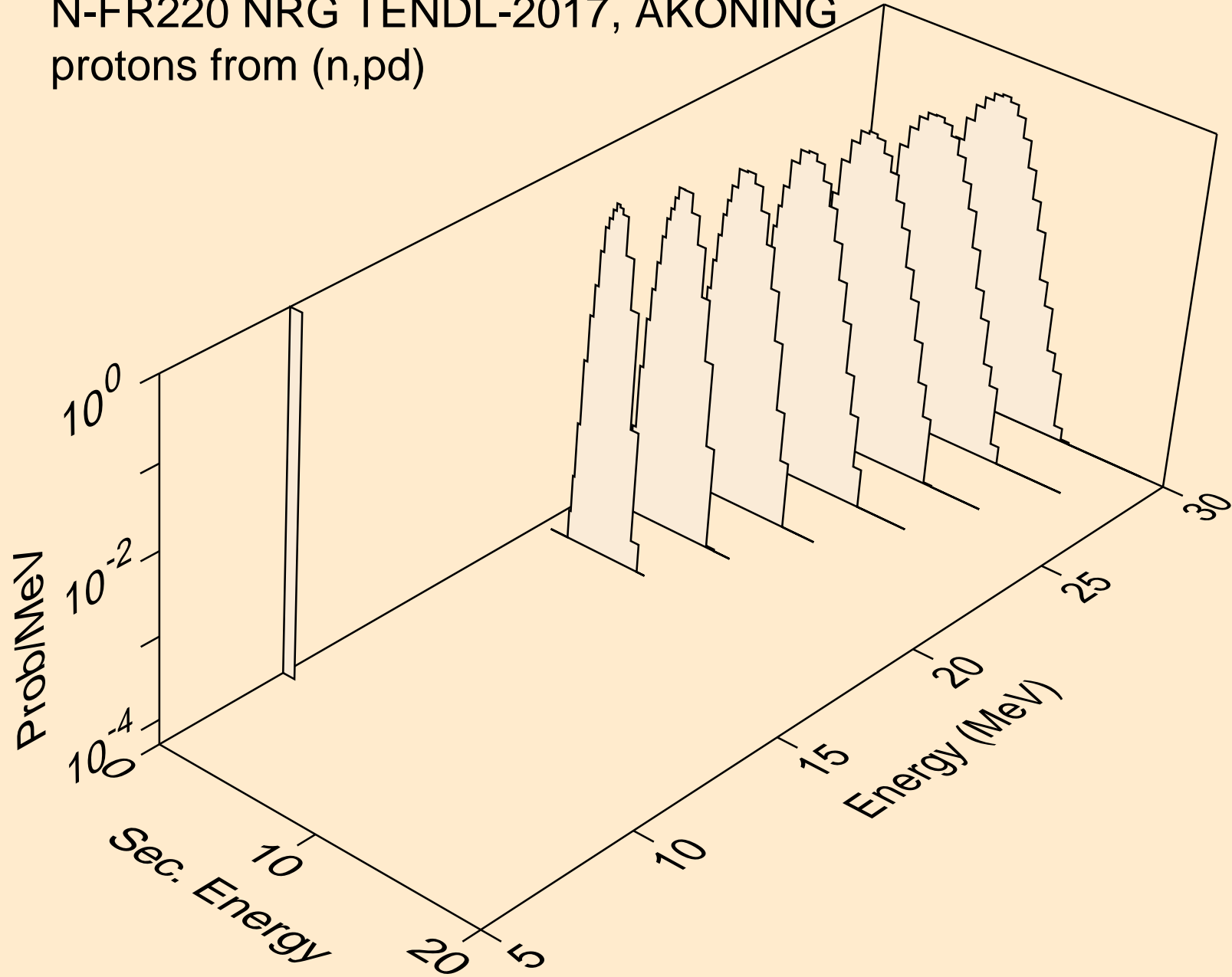




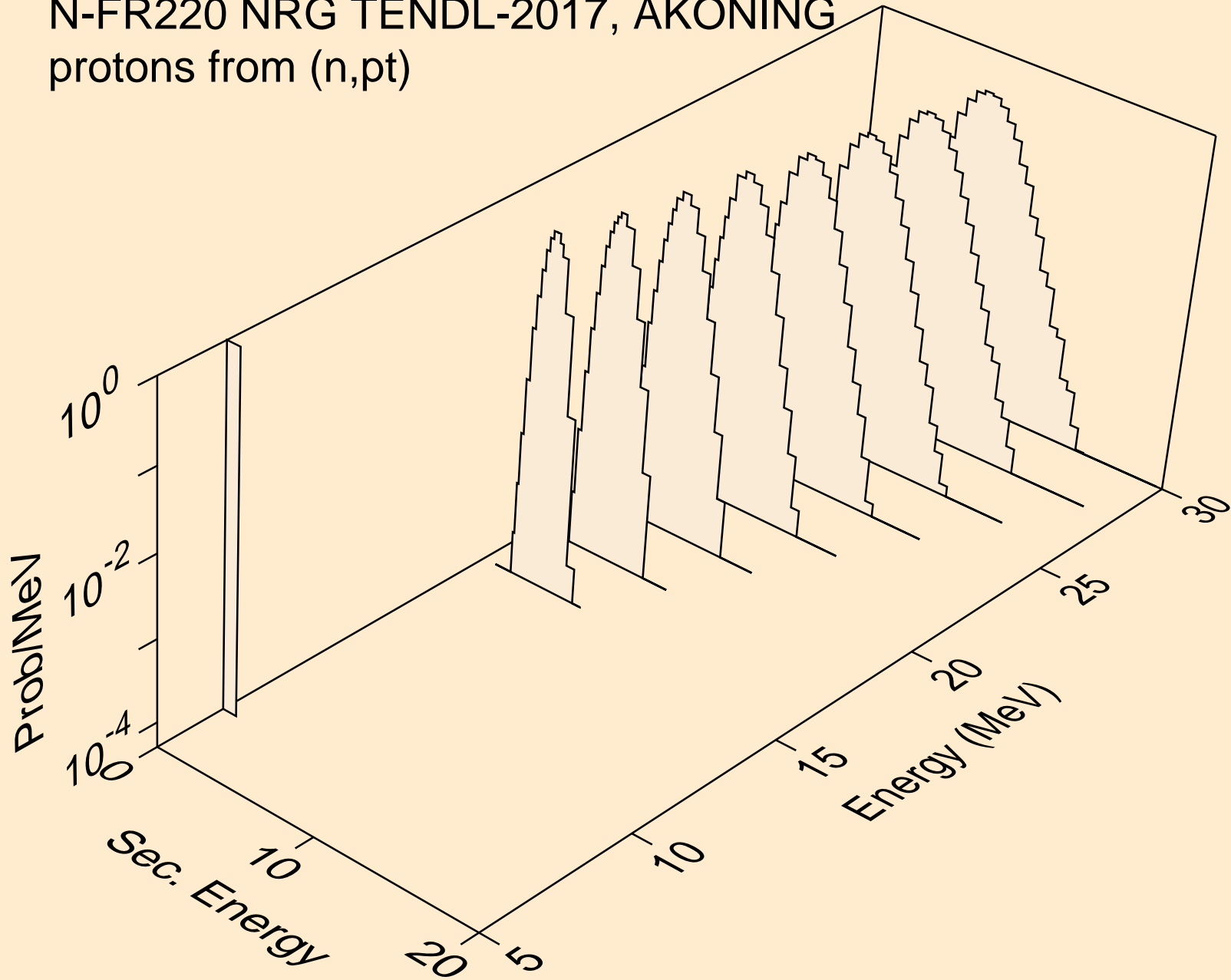
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protons from (n,pa)



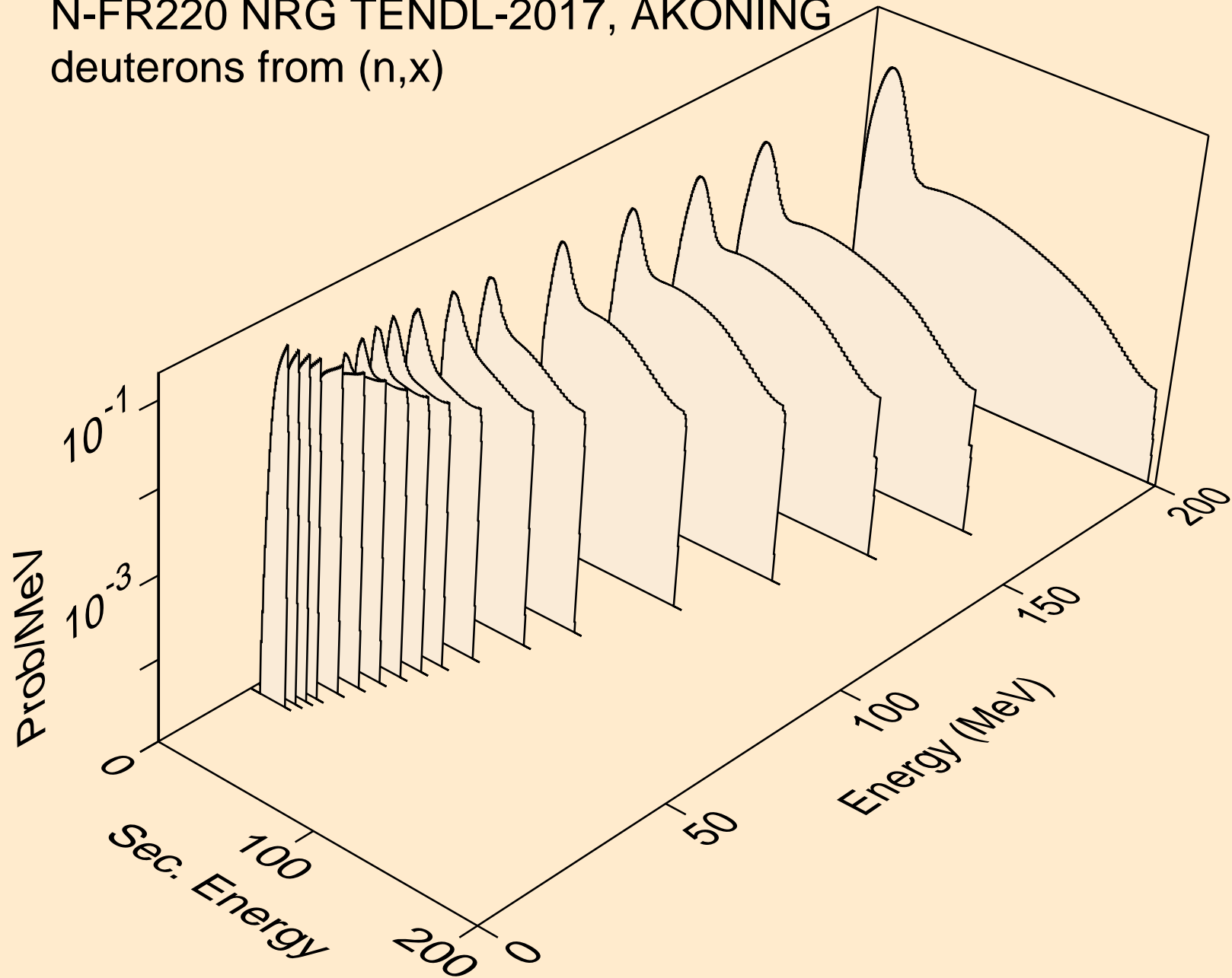
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protons from (n,pd)



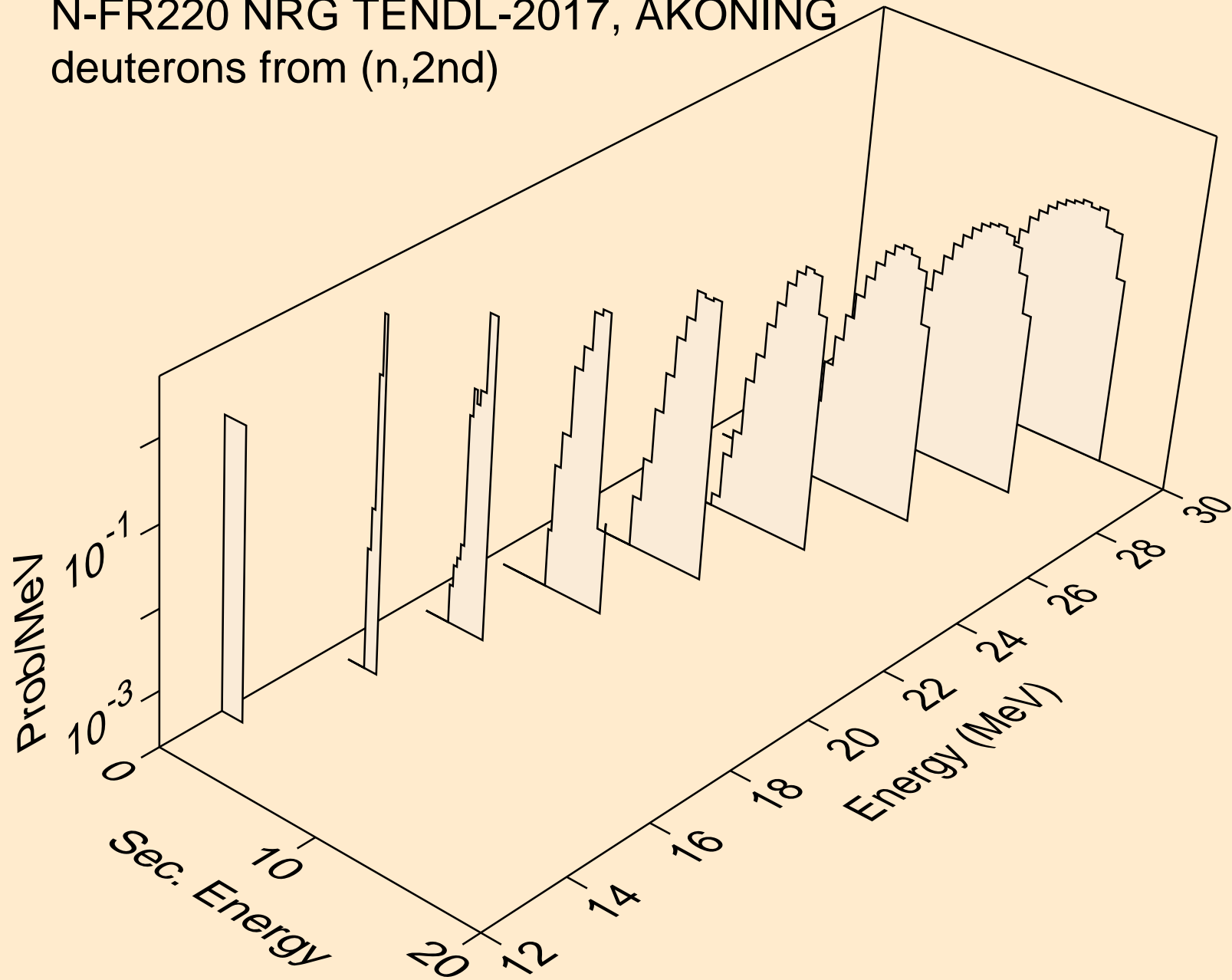
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protons from (n,pt)



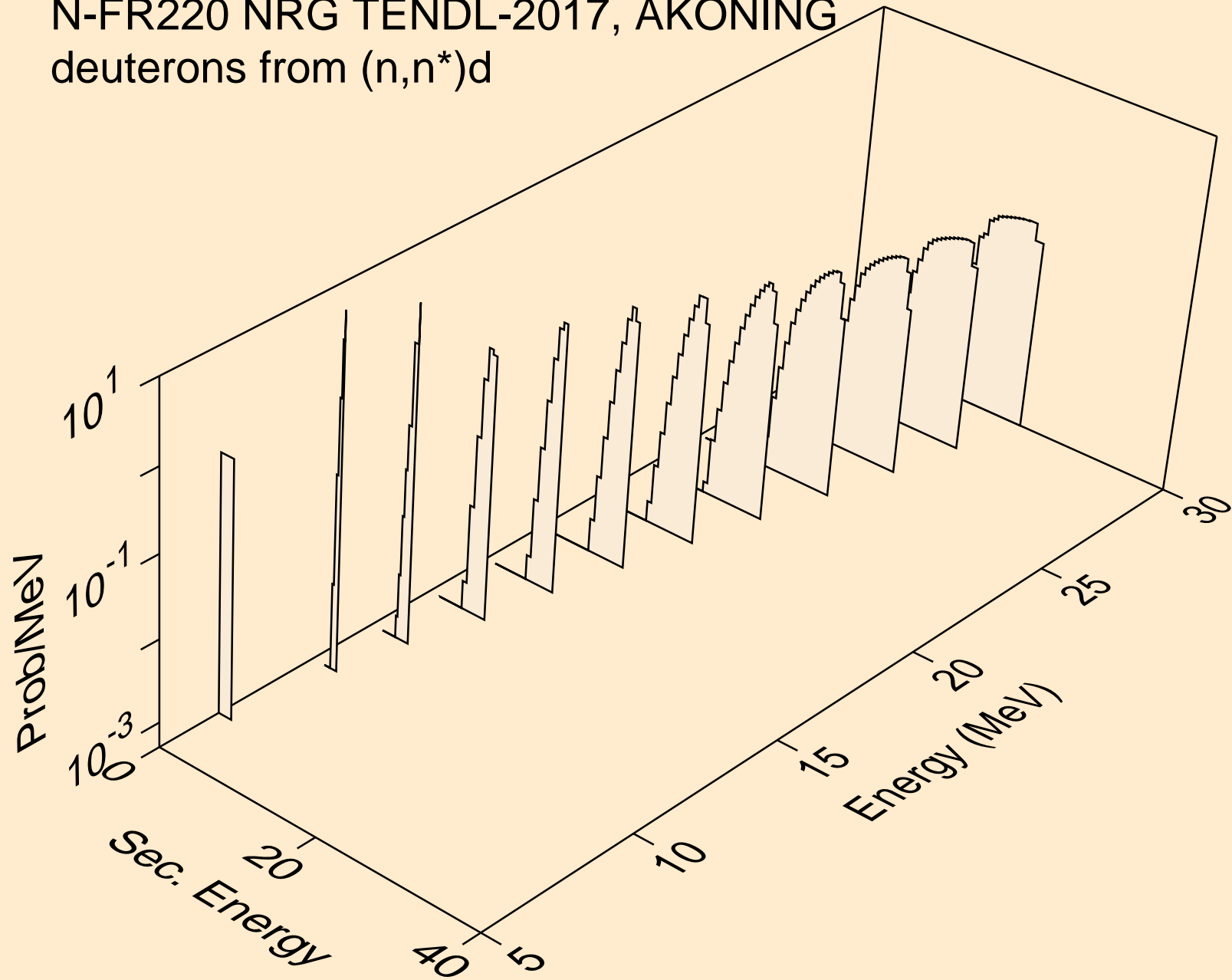
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deuterons from (n,x)



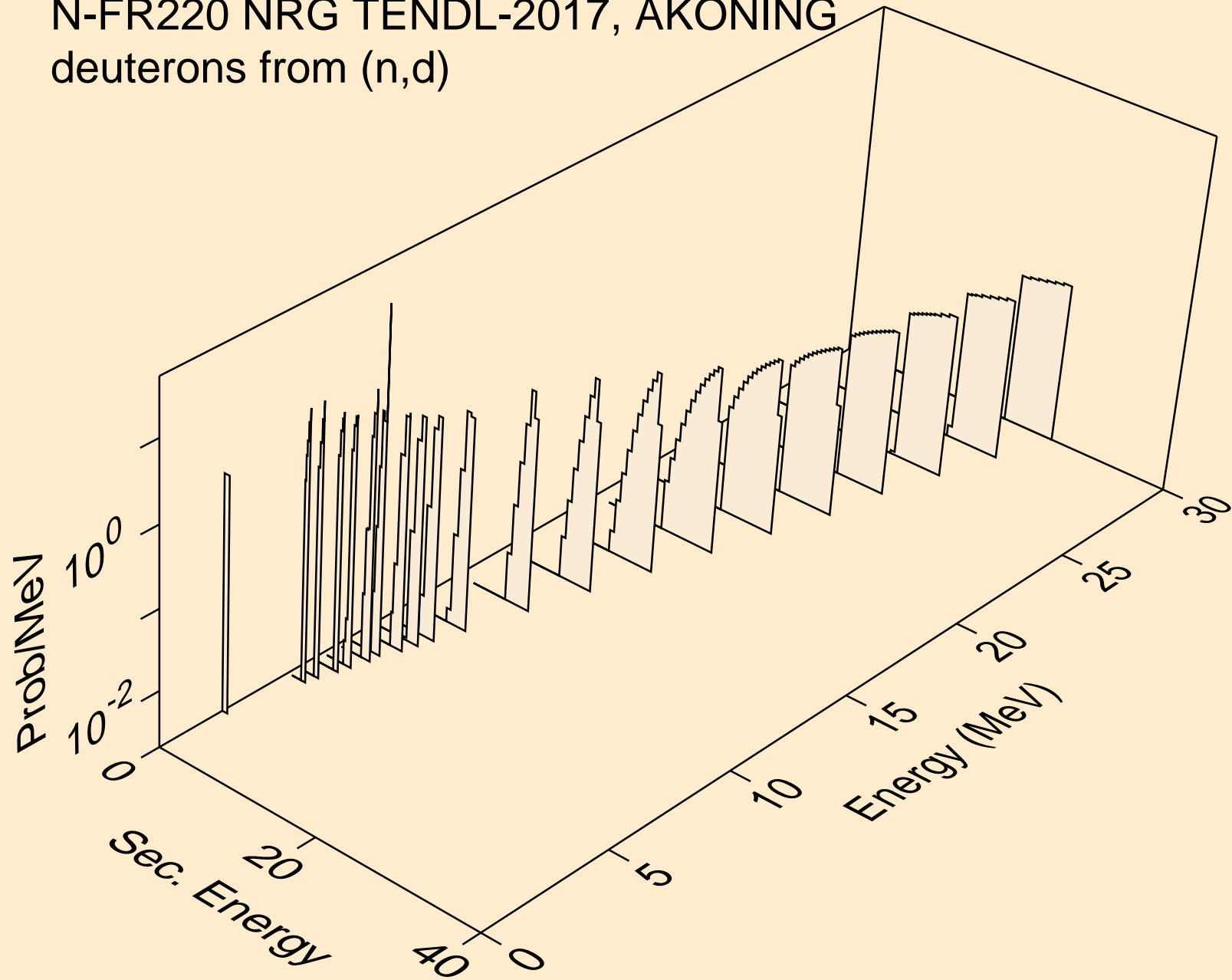
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deuterons from (n,2nd)



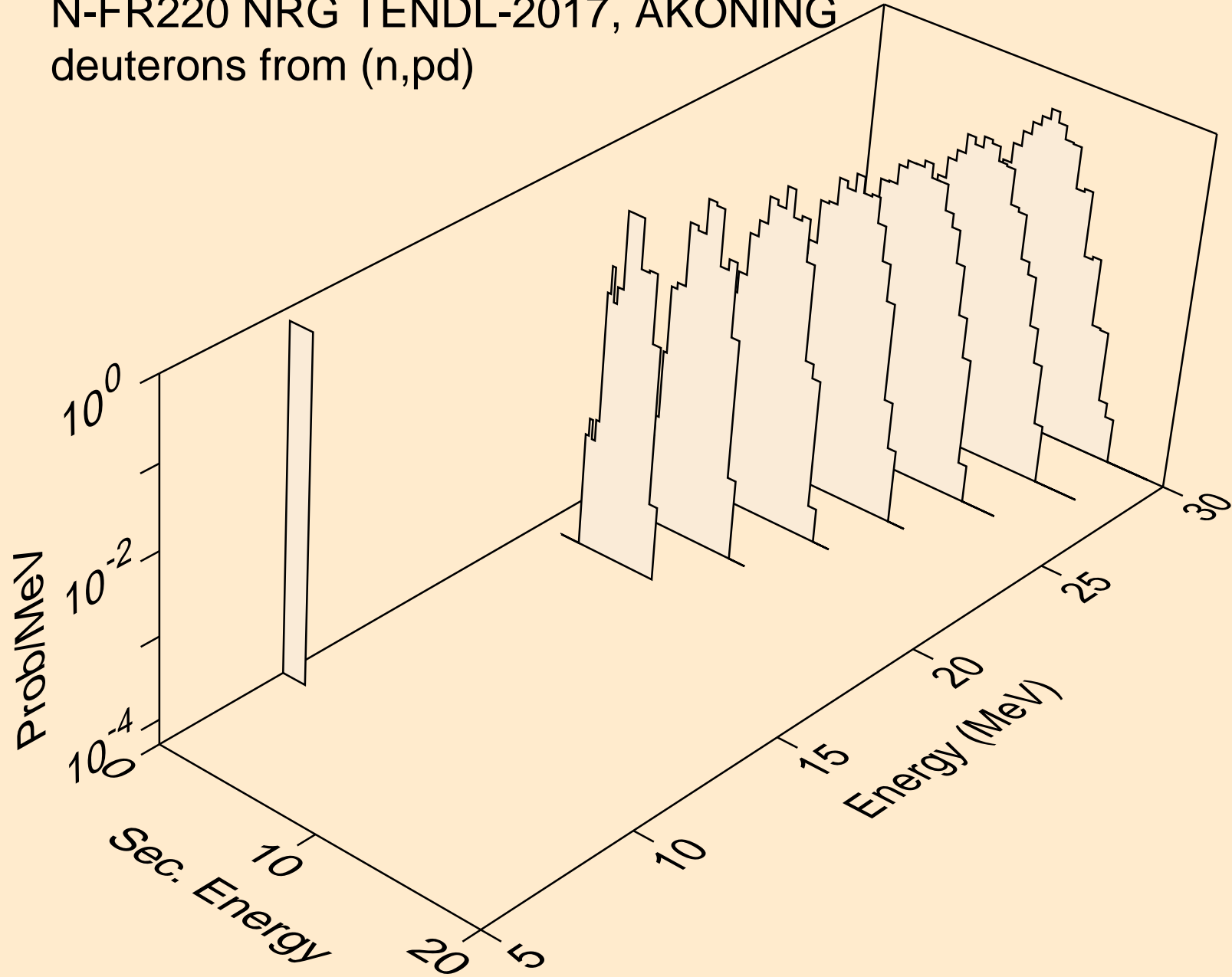
N-FR220 NRG TENDL-2017, AKONING  
deuterons from (n,n\*)d



N-FR220 NRG TENDL-2017, AKONING  
deuterons from (n,d)

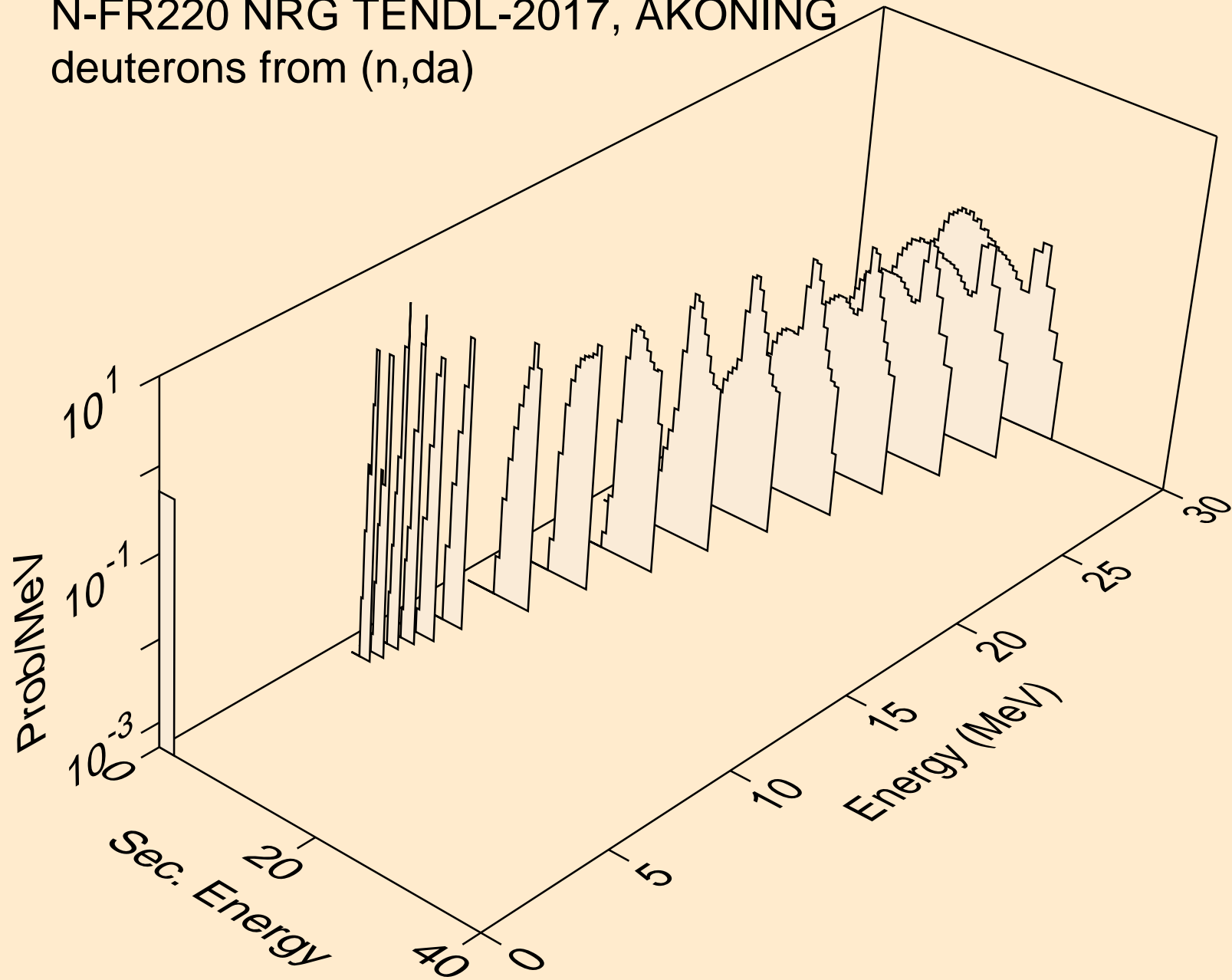


N-FR220 NRG TENDL-2017, AKONING  
deuterons from (n,pd)

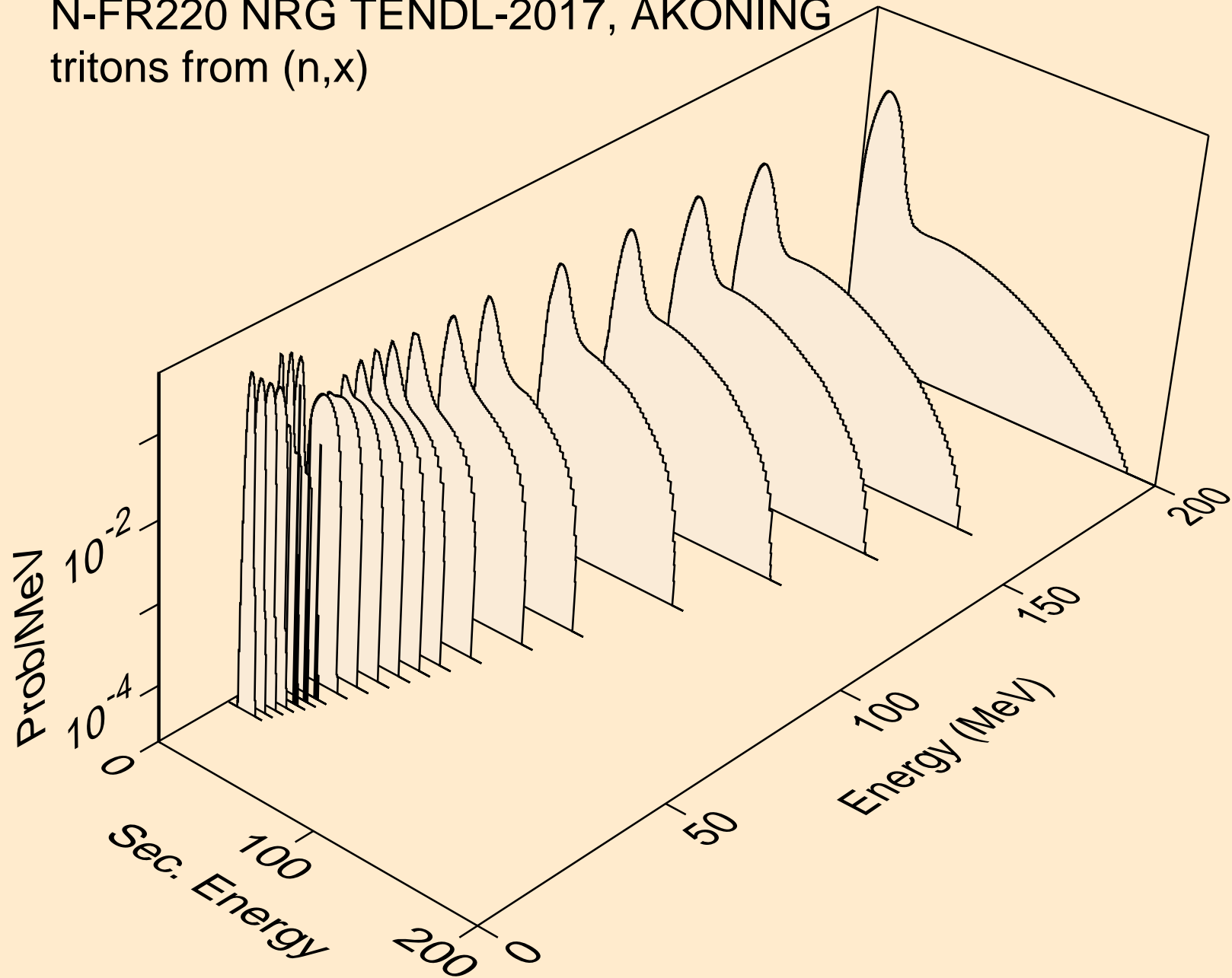




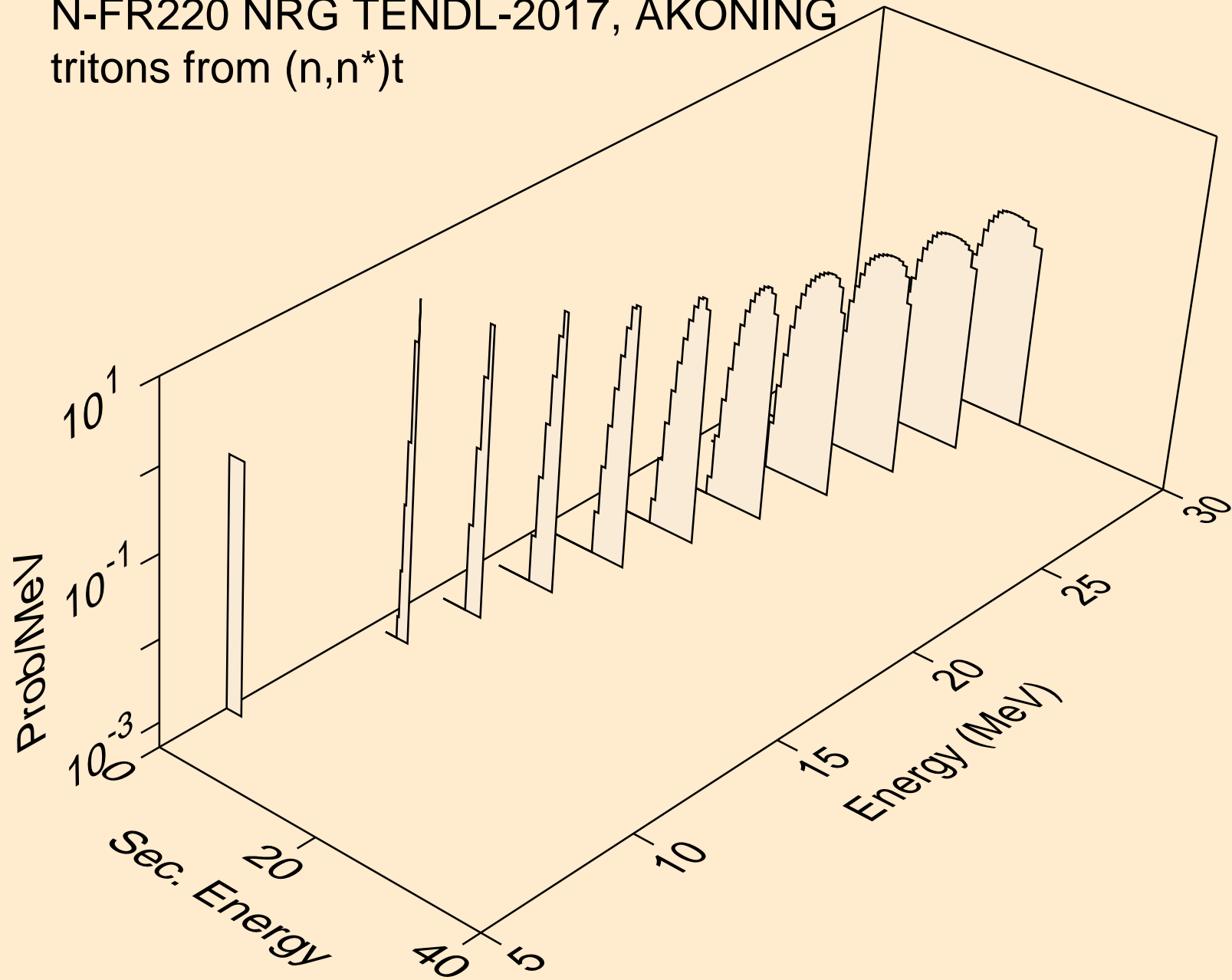
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deuterons from (n,da)



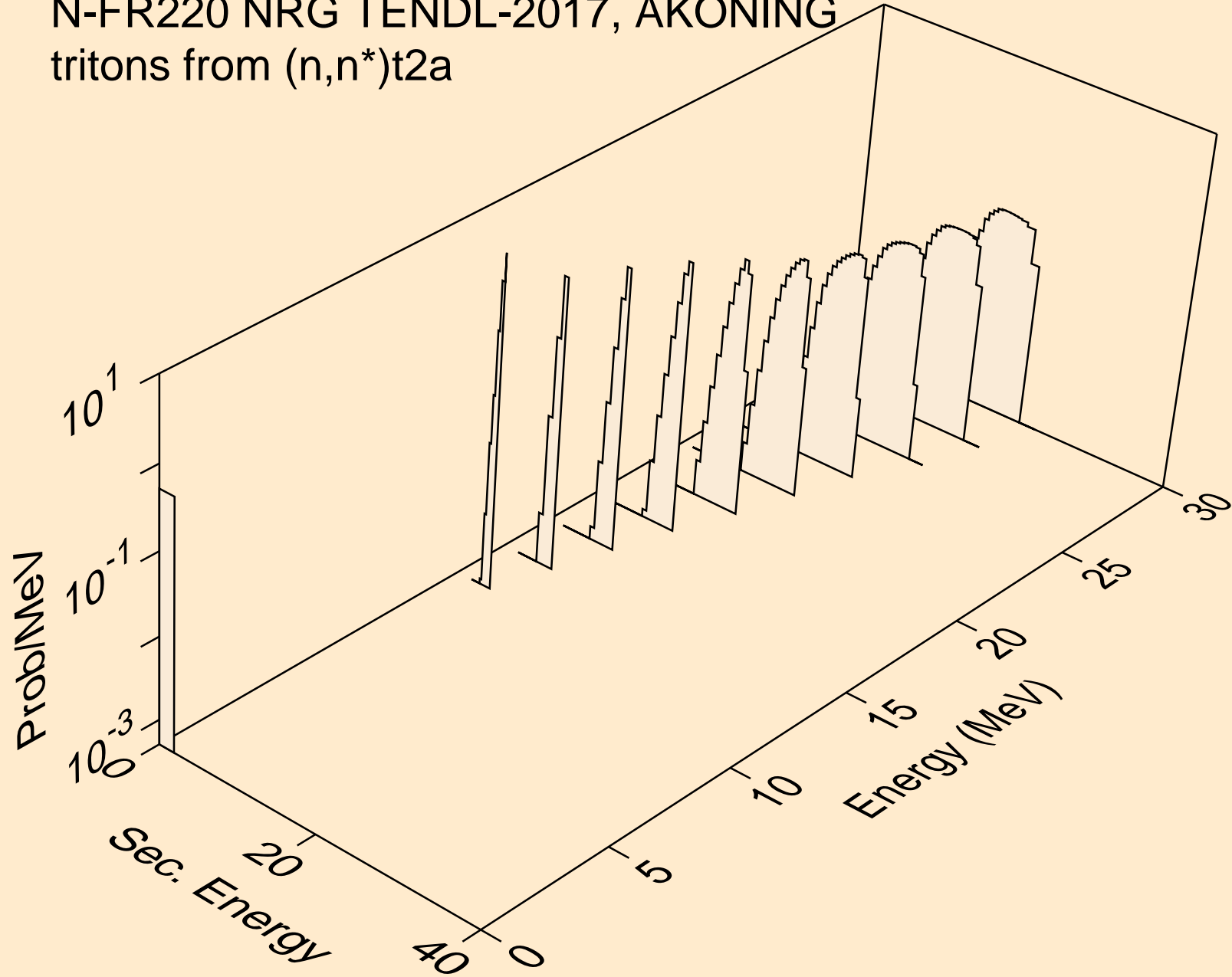
N-FR220 NRG TENDL-2017, AKONING  
tritons from (n,x)



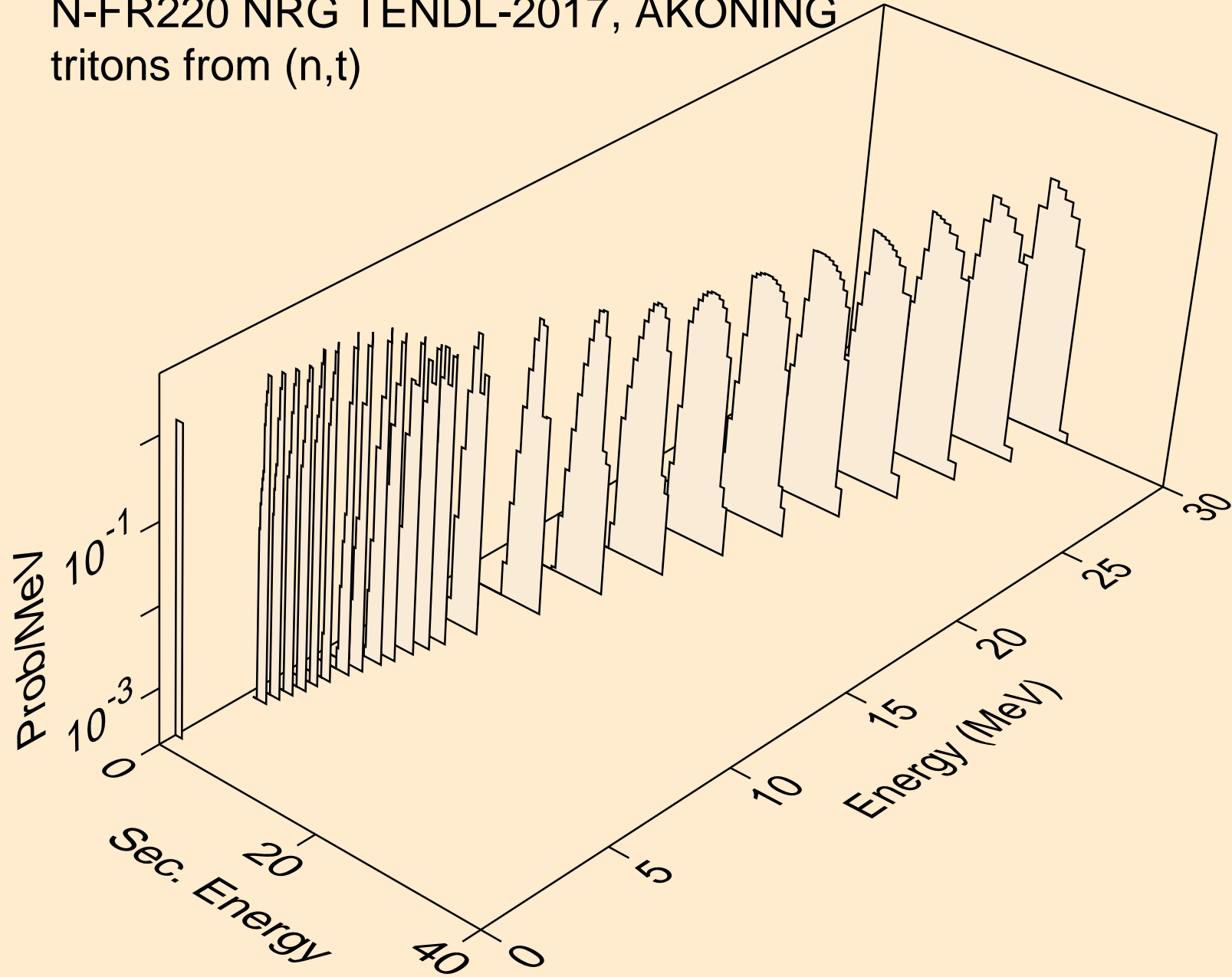
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tritons from (n,n\*)t



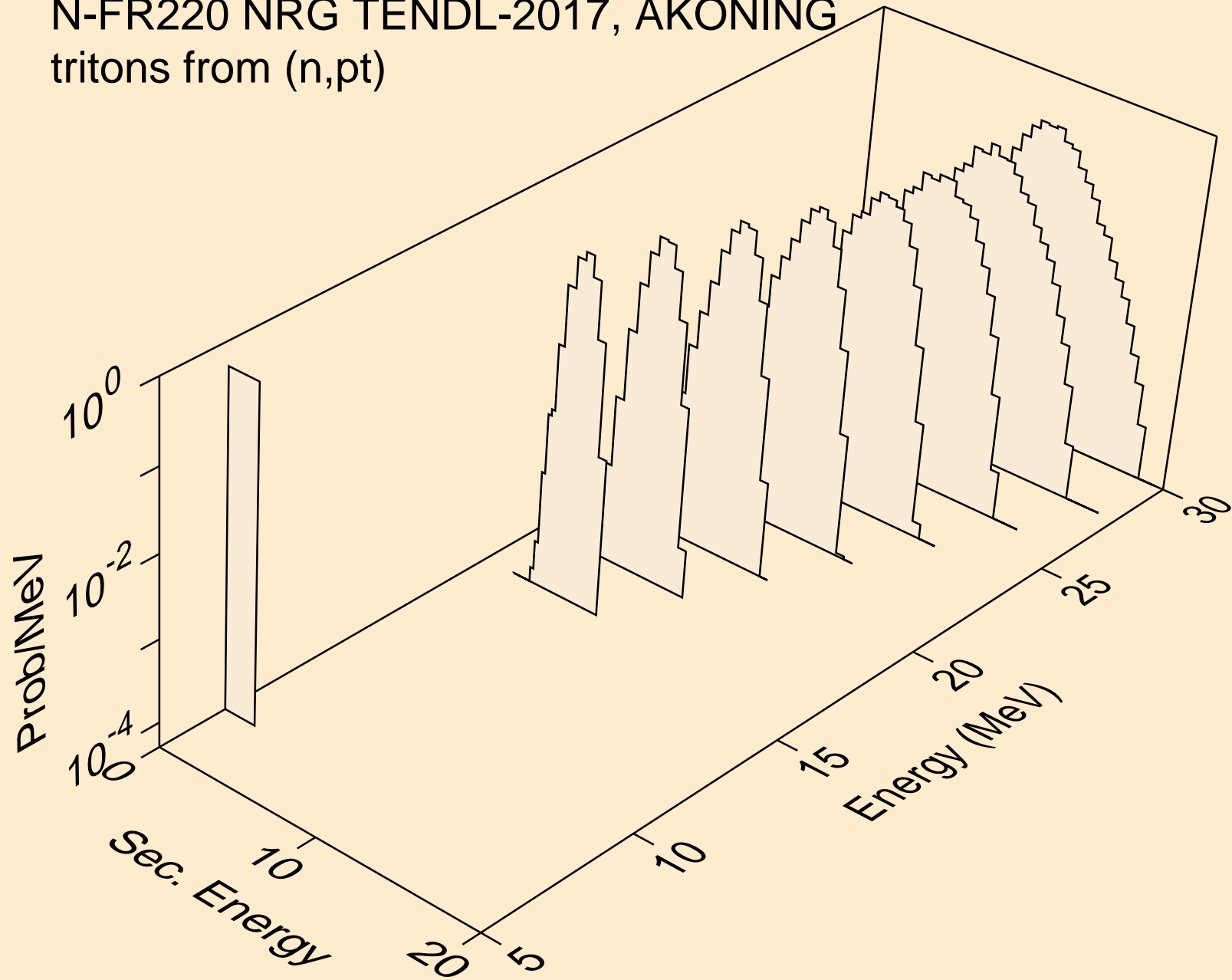
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tritons from (n,n\*)t2a



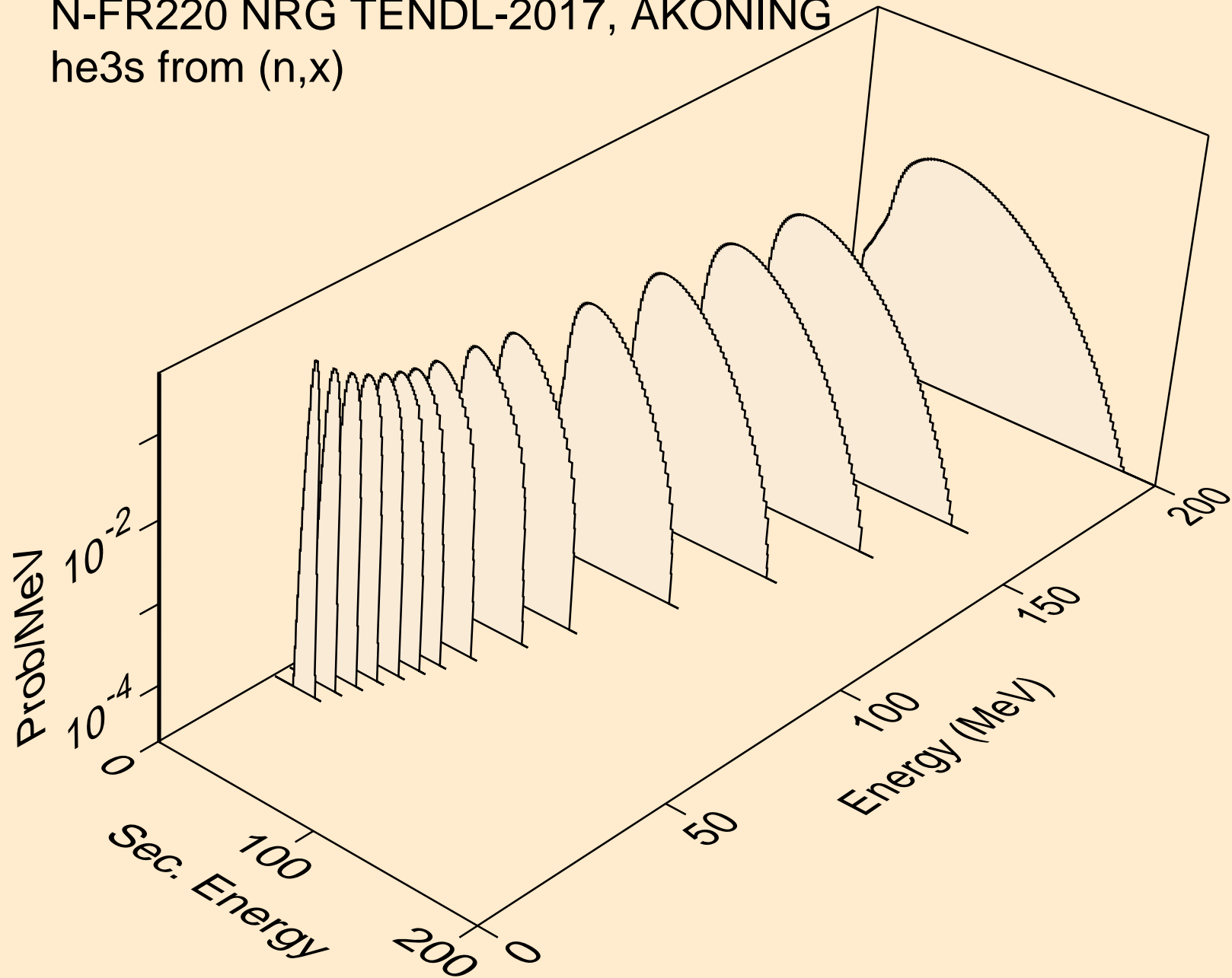
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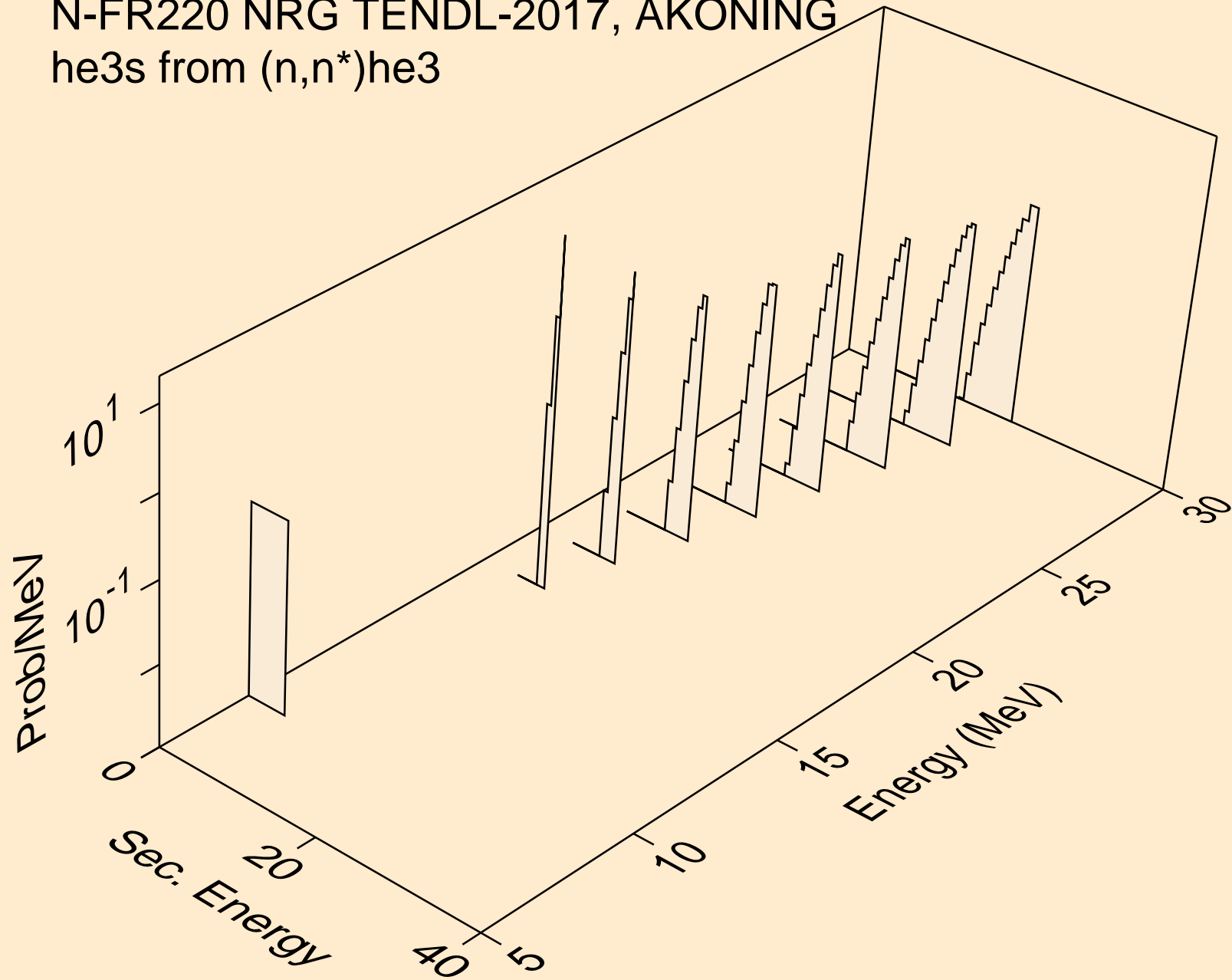
N-FR220 NRG TENDL-2017, AKONING  
tritons from (n,pt)



N-FR220 NRG TENDL-2017, AKONING  
he3s from (n,x)

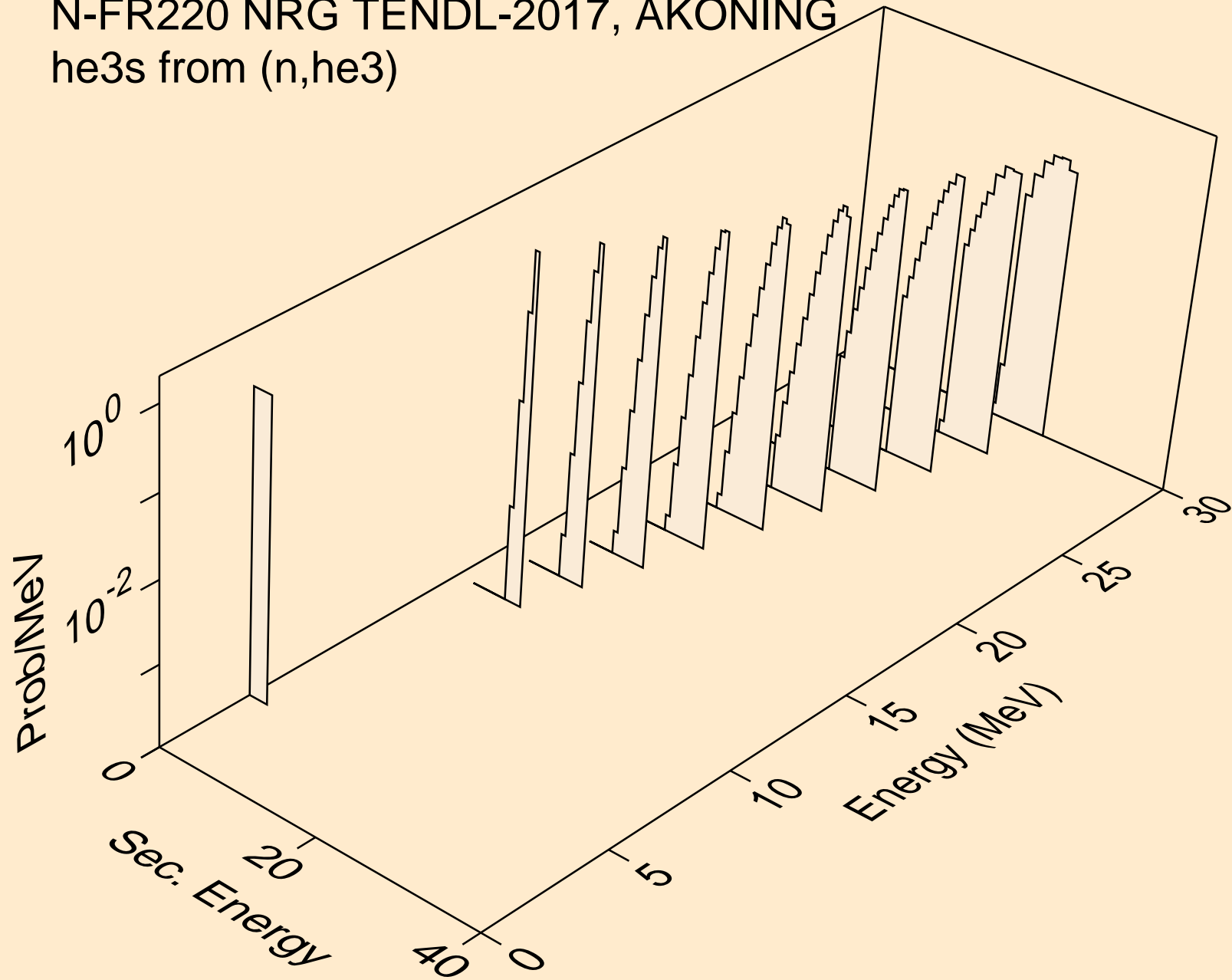


N-FR220 NRG TENDL-2017, AKONING  
he3s from (n,n\*)he3

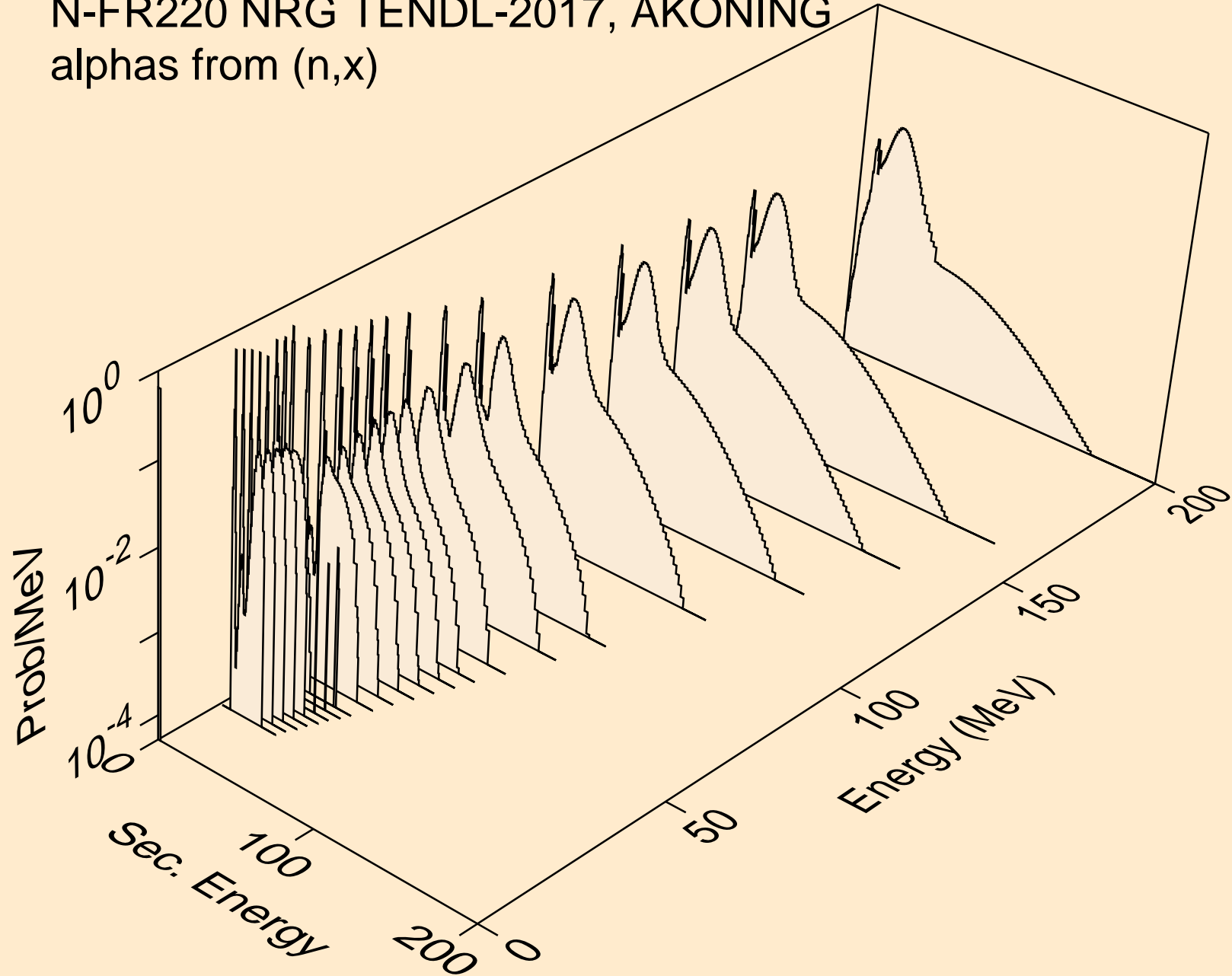




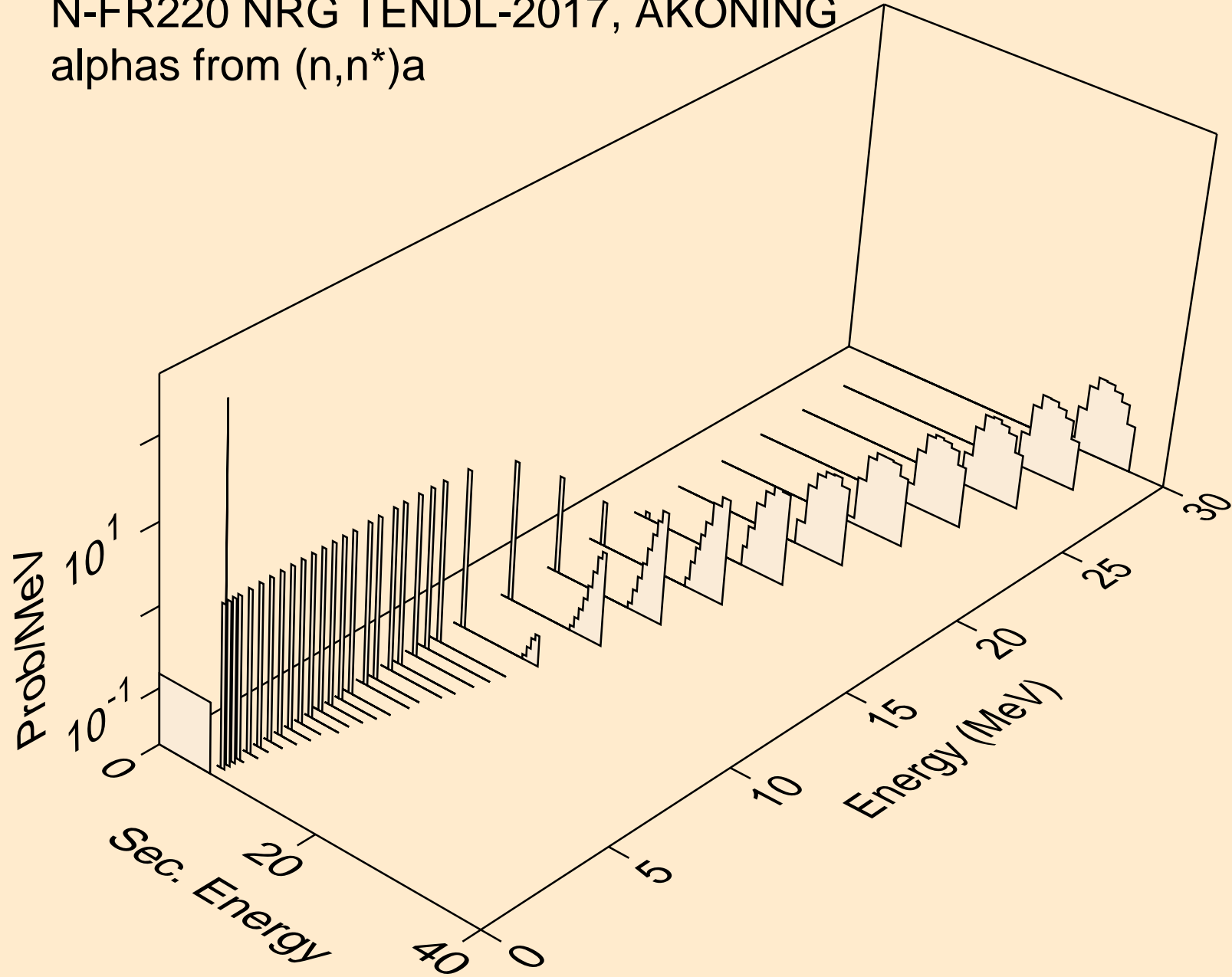
N-FR220 NRG TENDL-2017, AKONING  
he3s from (n,he3)



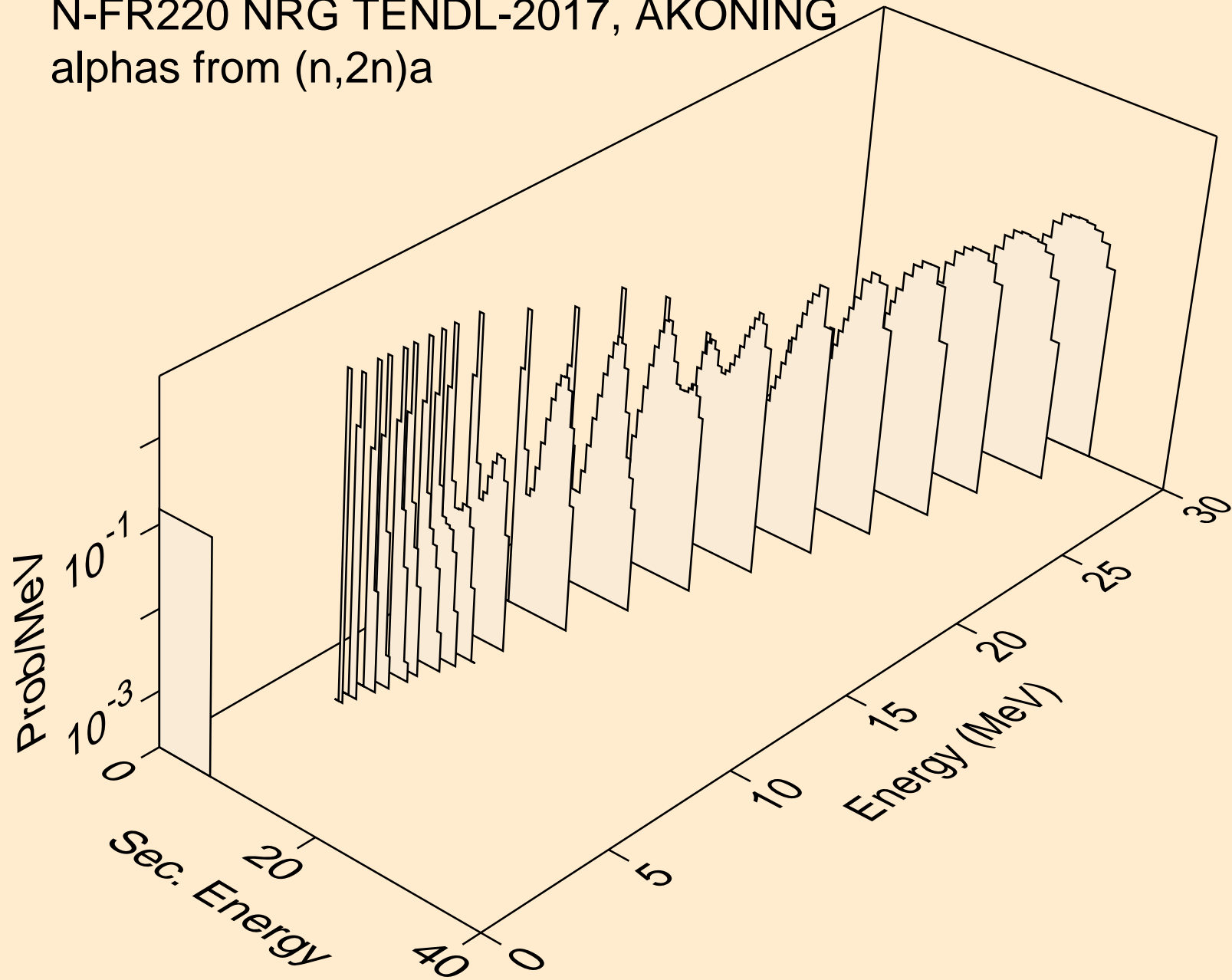
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alphas from (n,x)



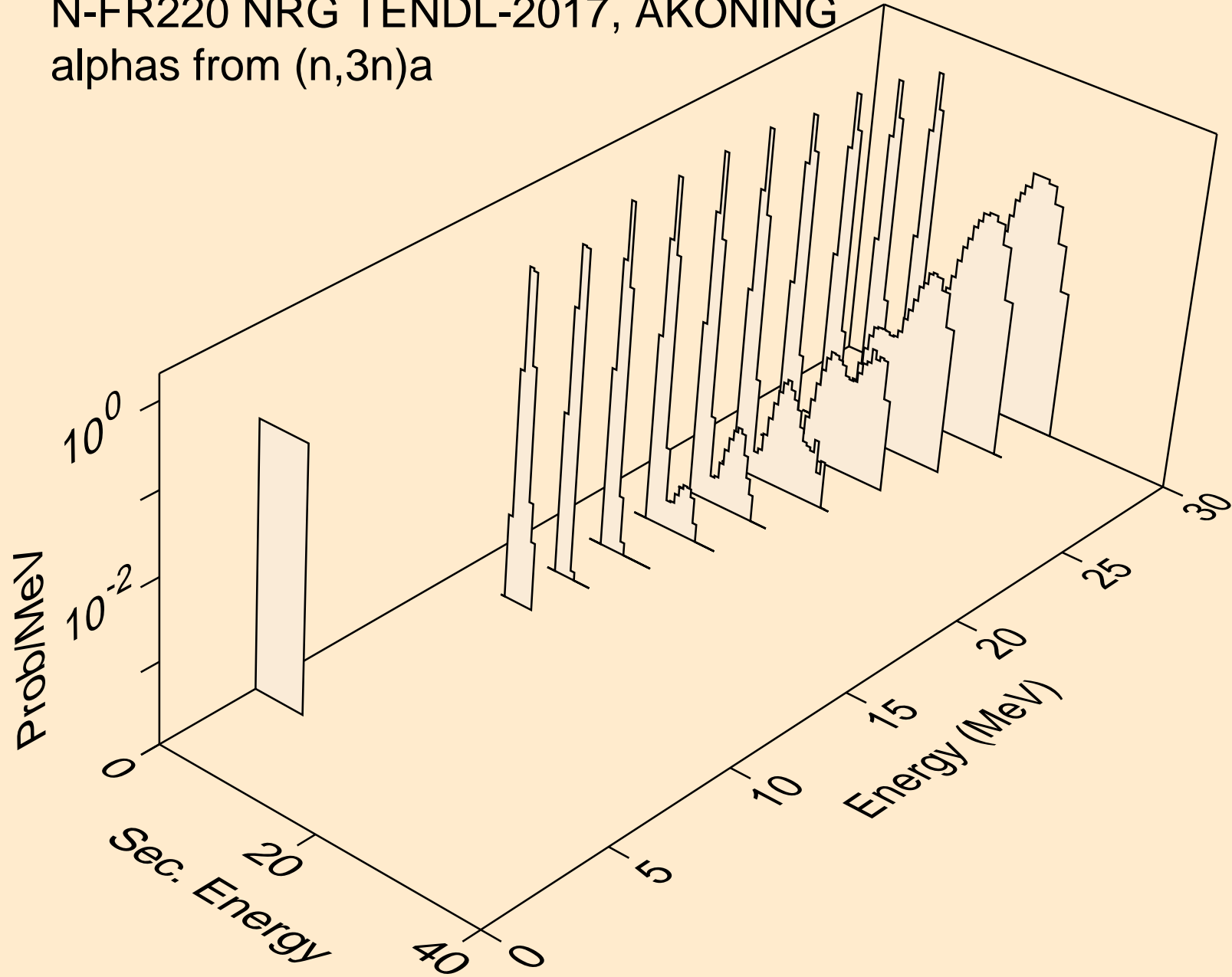
N-FR220 NRG TENDL-2017, AKONING  
alphas from (n,n\*)a



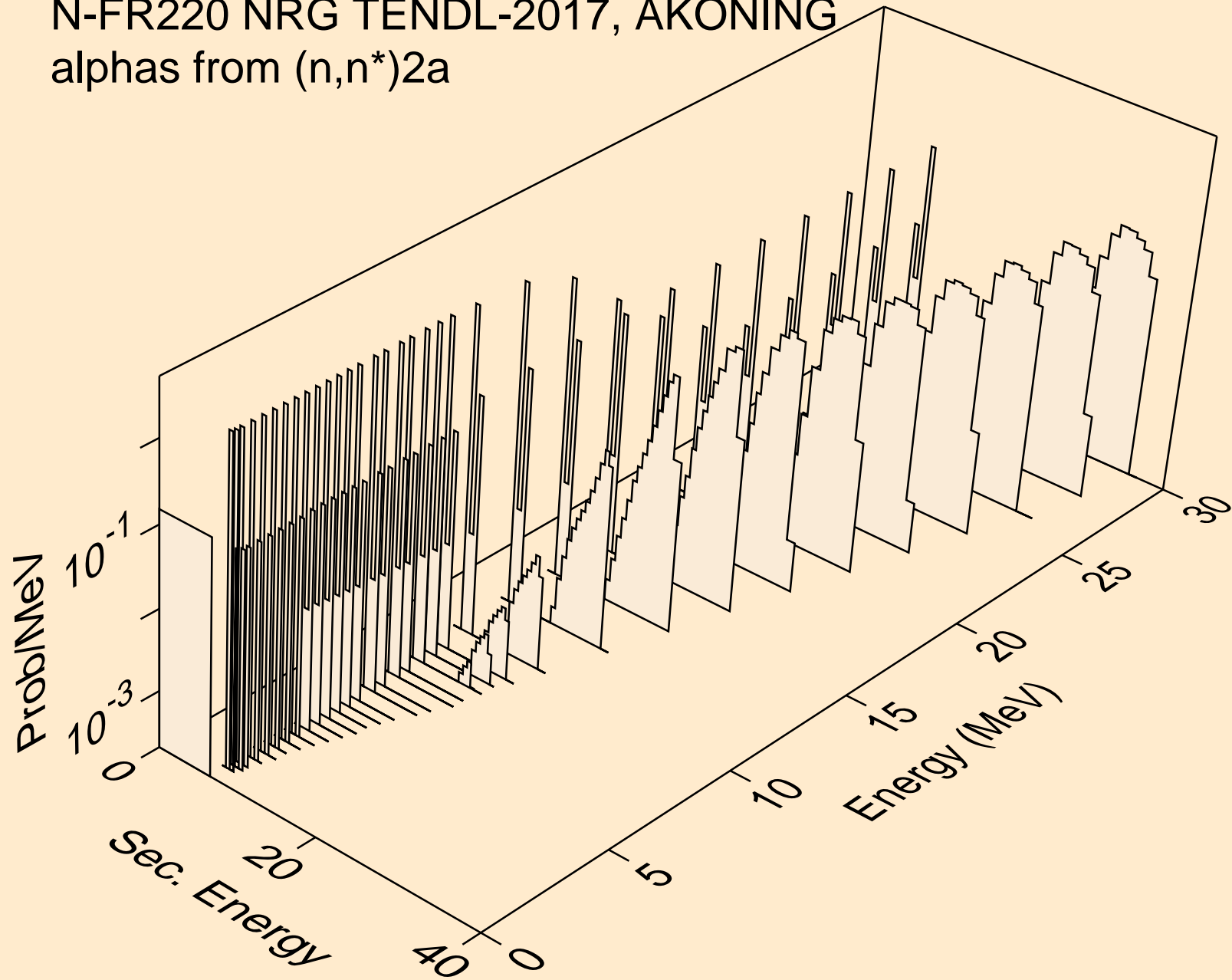
N-FR220 NRG TENDL-2017, AKONING  
alphas from (n,2n)a



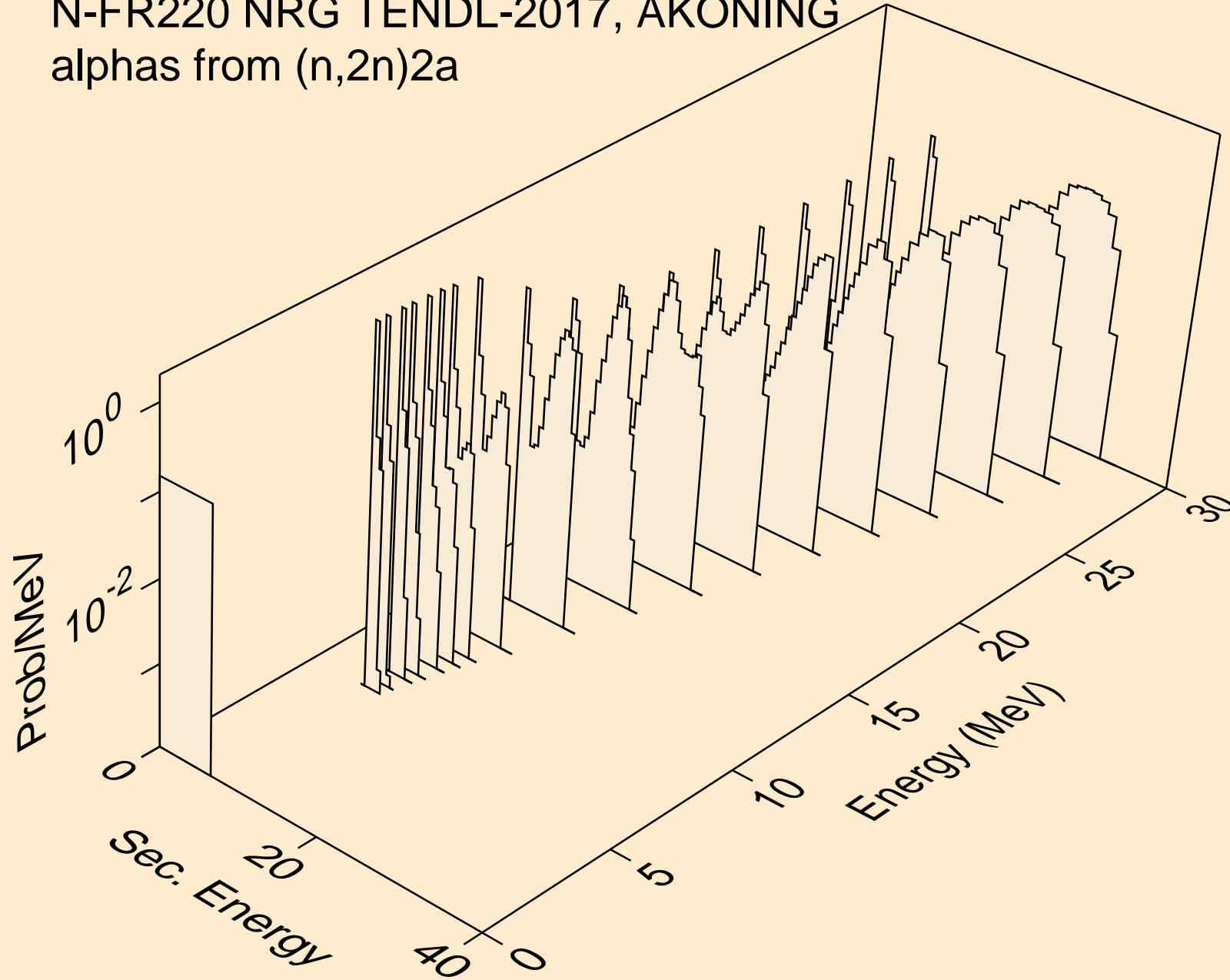
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alphas from (n,3n)a



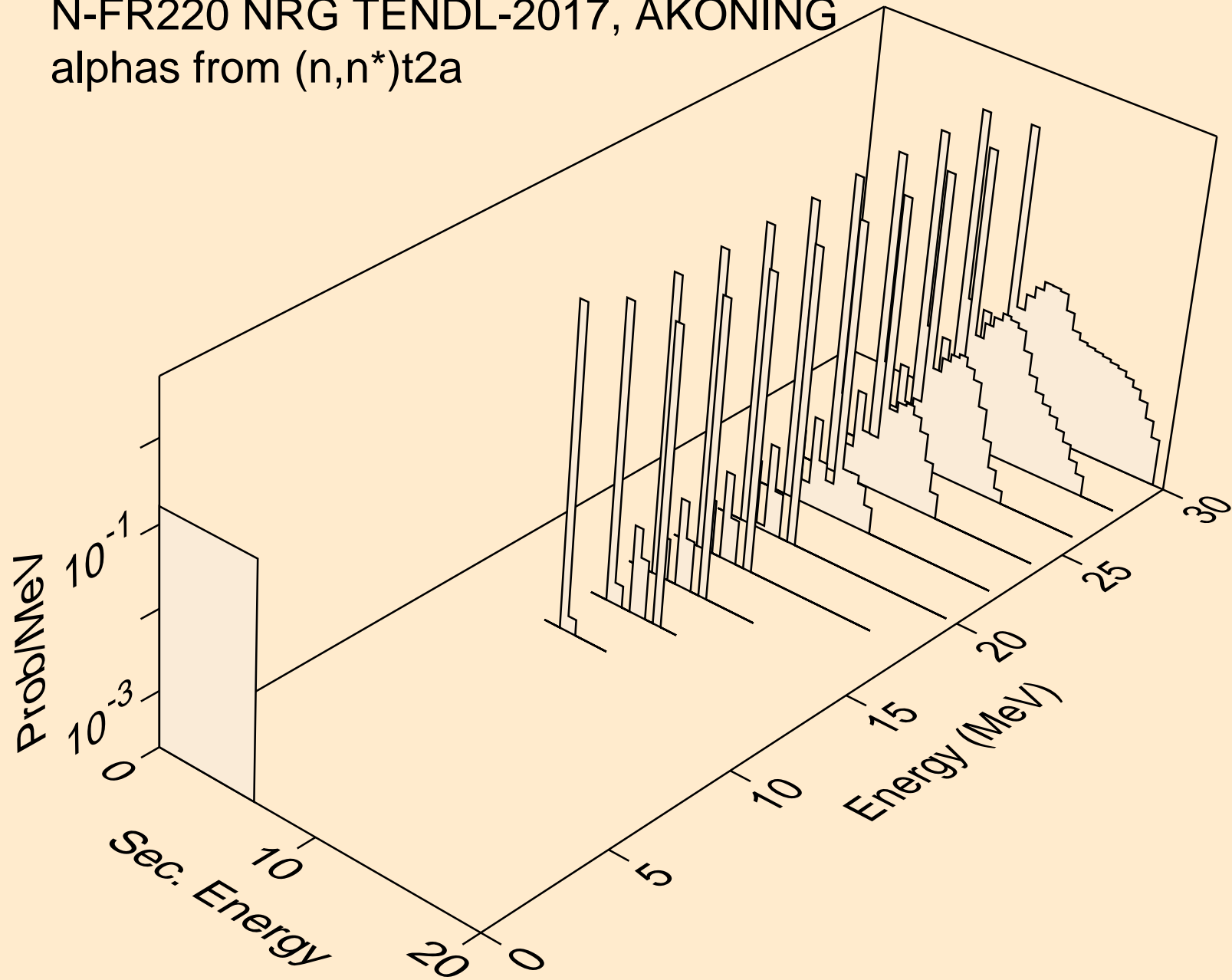
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alphas from (n,n\*)2a



N-FR220 NRG TENDL-2017, AKONING  
alphas from (n,2n)2a

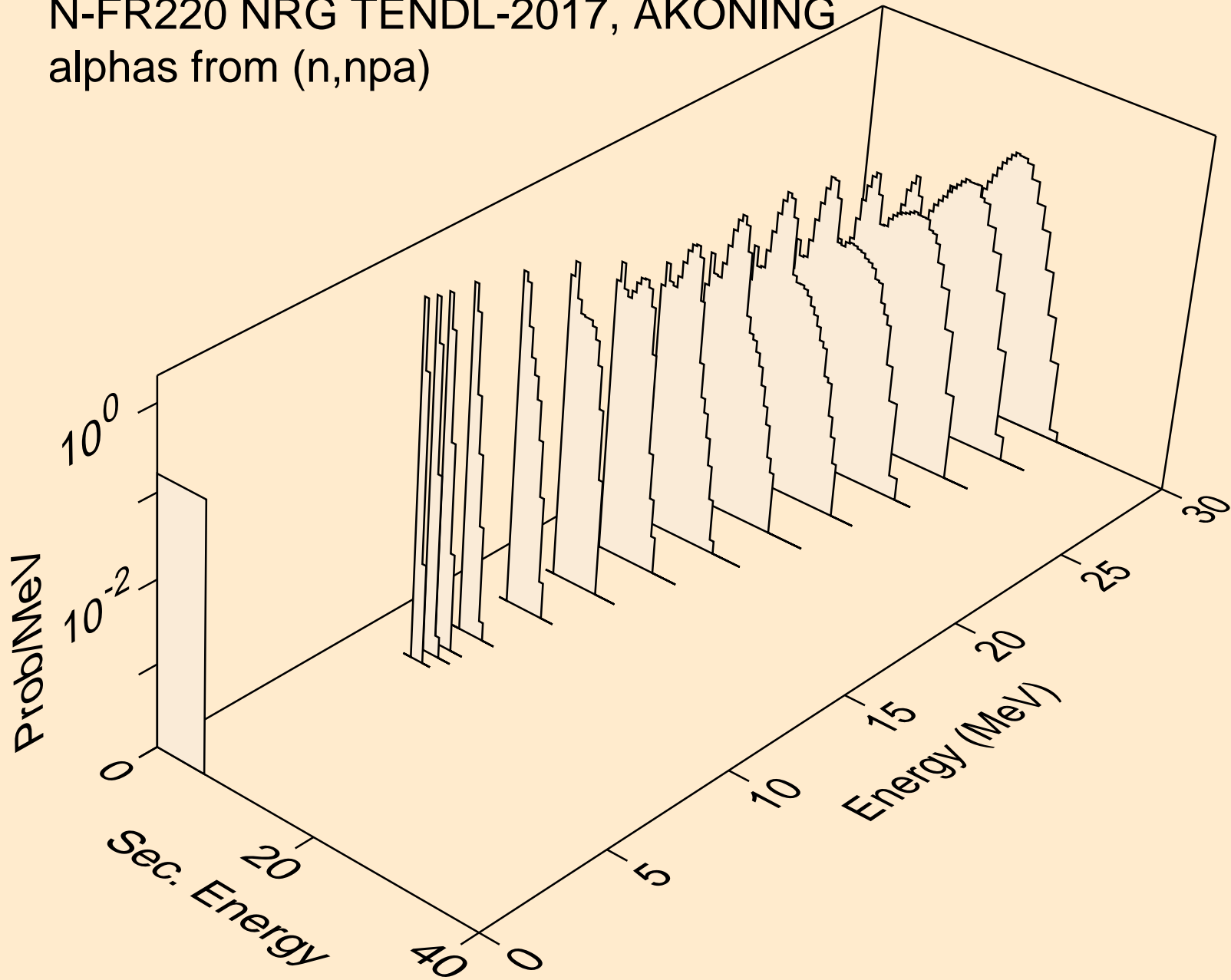


N-FR220 NRG TENDL-2017, AKONING  
alphas from (n,n\*)t2a

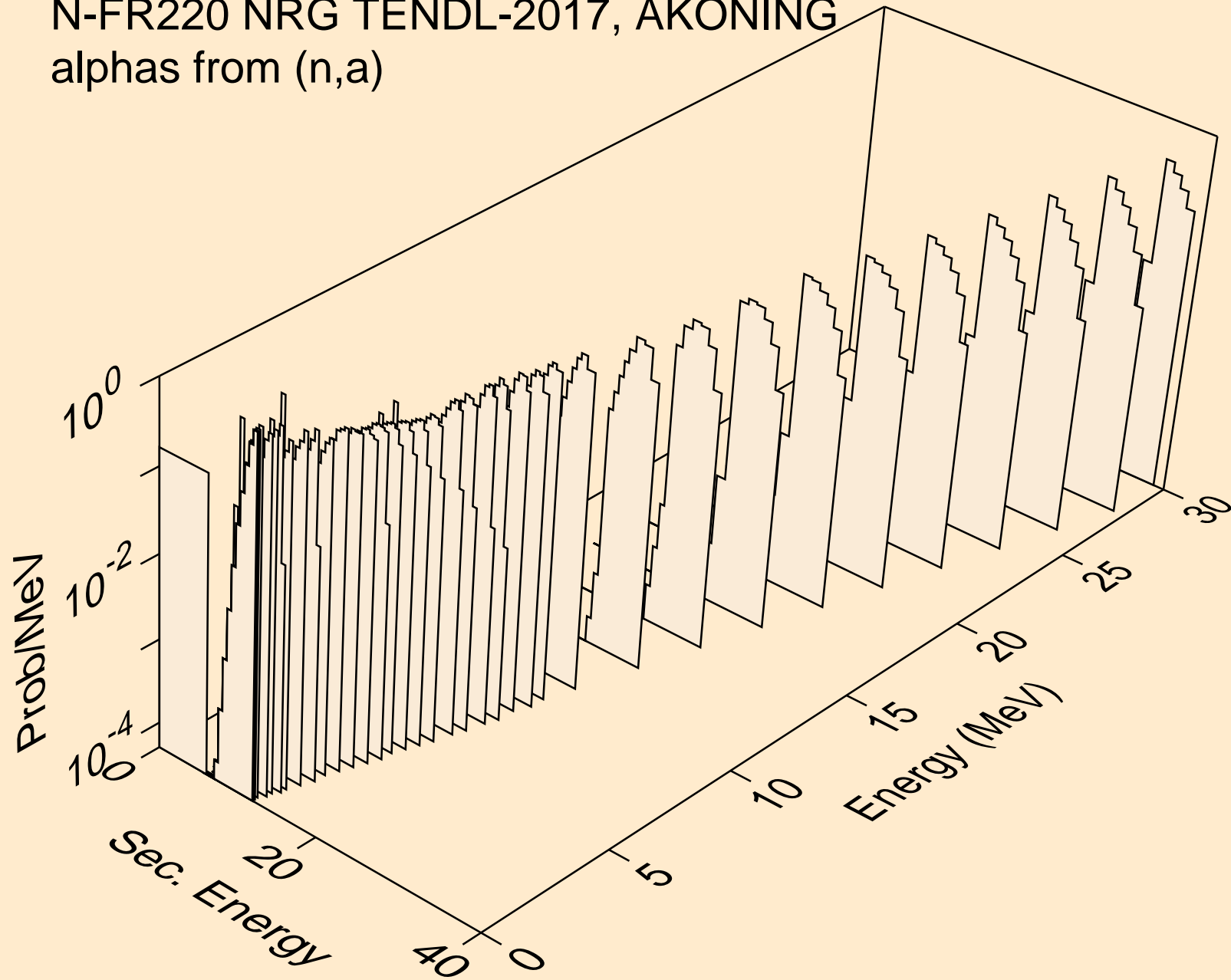




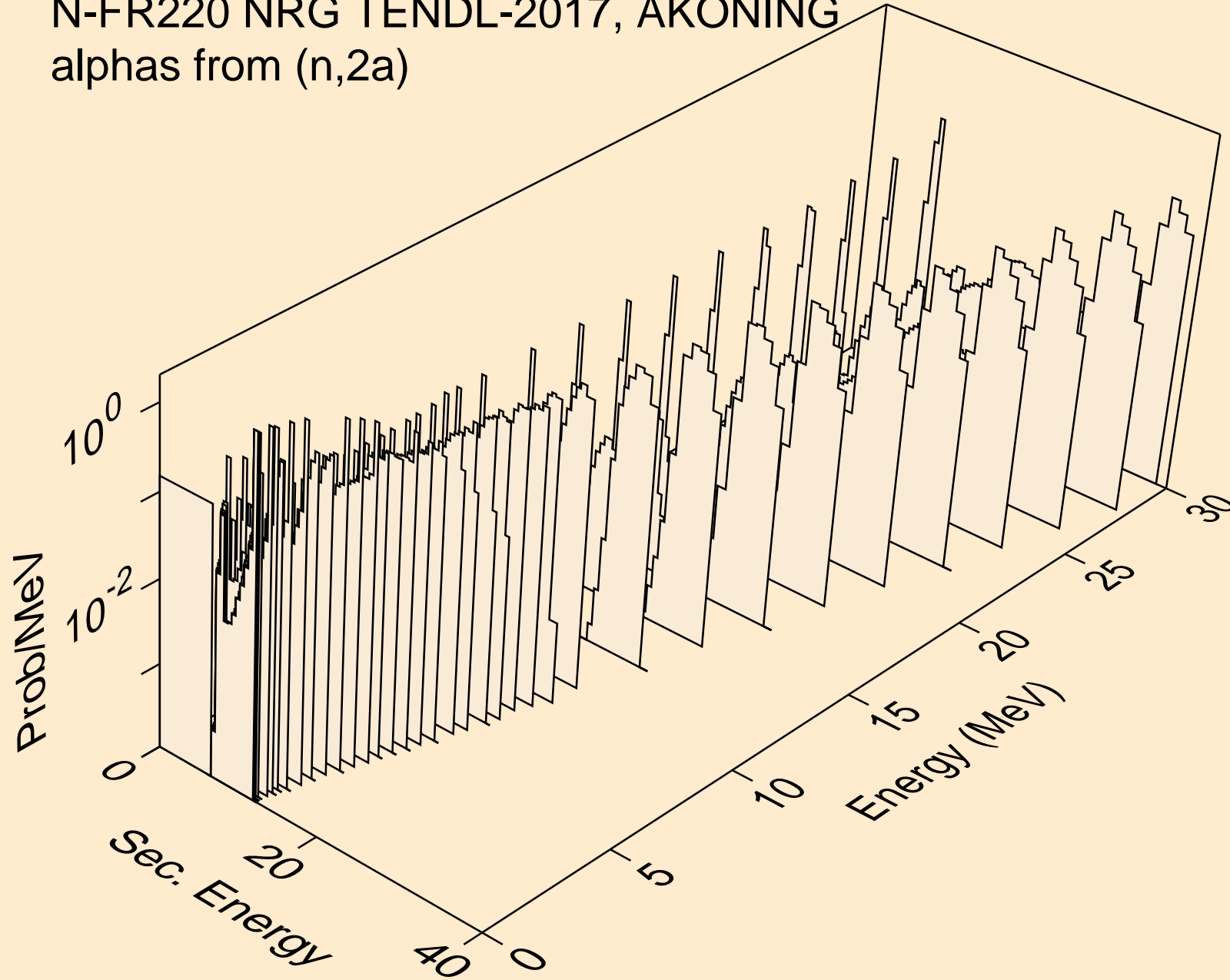
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alphas from (n,npa)



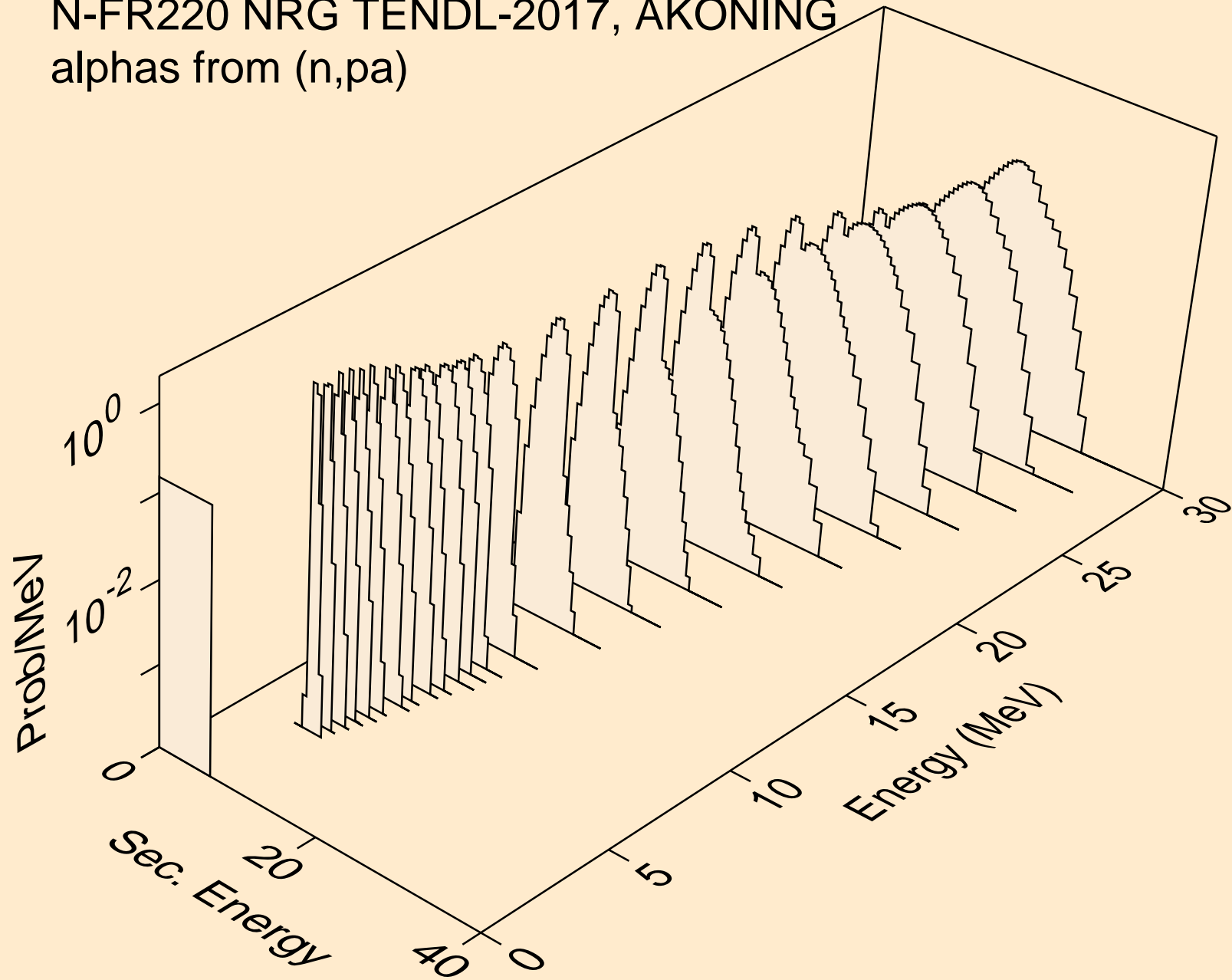
N-FR220 NRG TENDL-2017, AKONING  
alphas from (n,a)



N-FR220 NRG TENDL-2017, AKONING  
alphas from (n,2a)



N-FR220 NRG TENDL-2017, AKONING  
alphas from (n,pa)



N-FR220 NRG TENDL-2017, AKONING  
alphas from (n,da)

