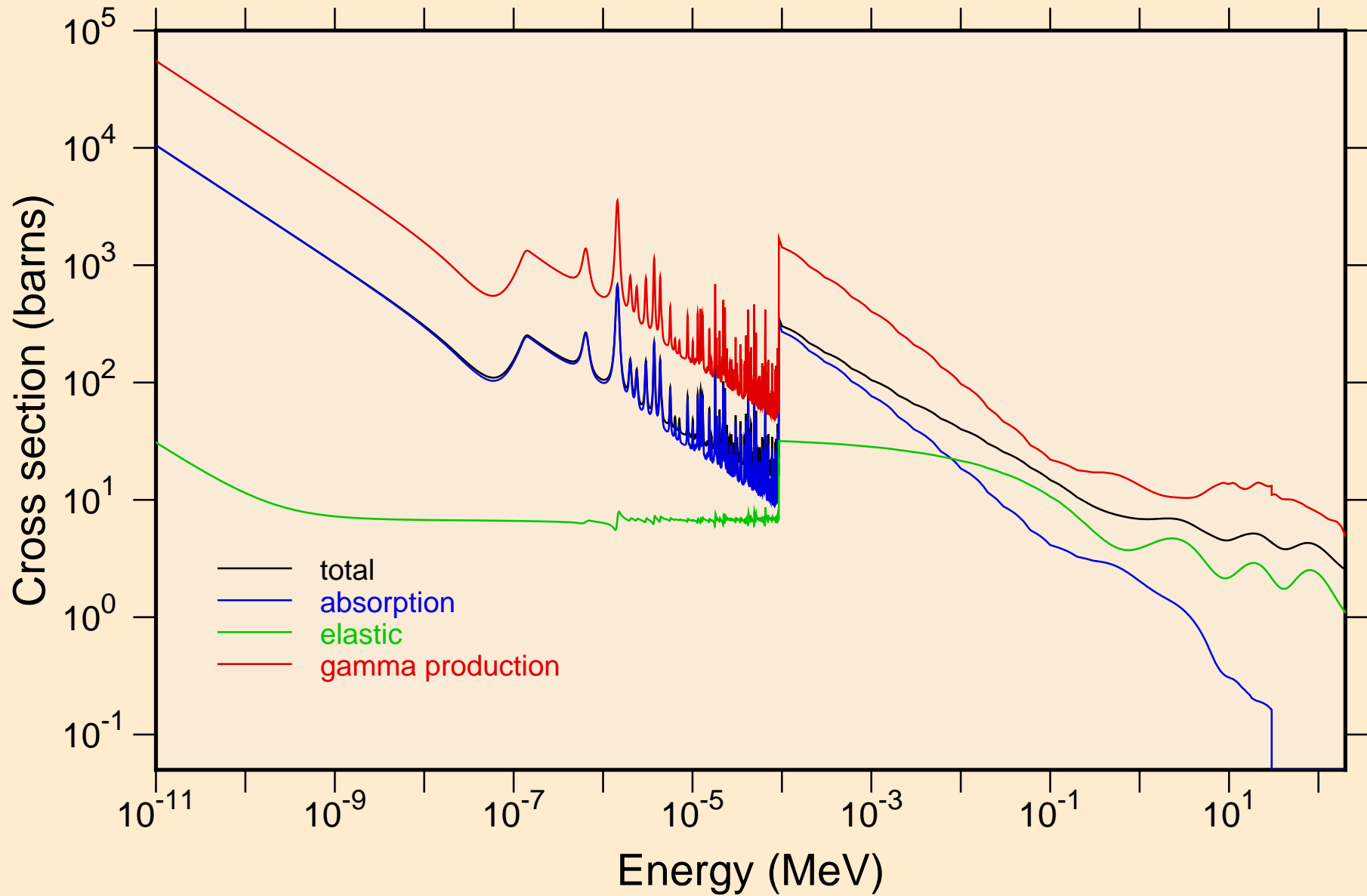
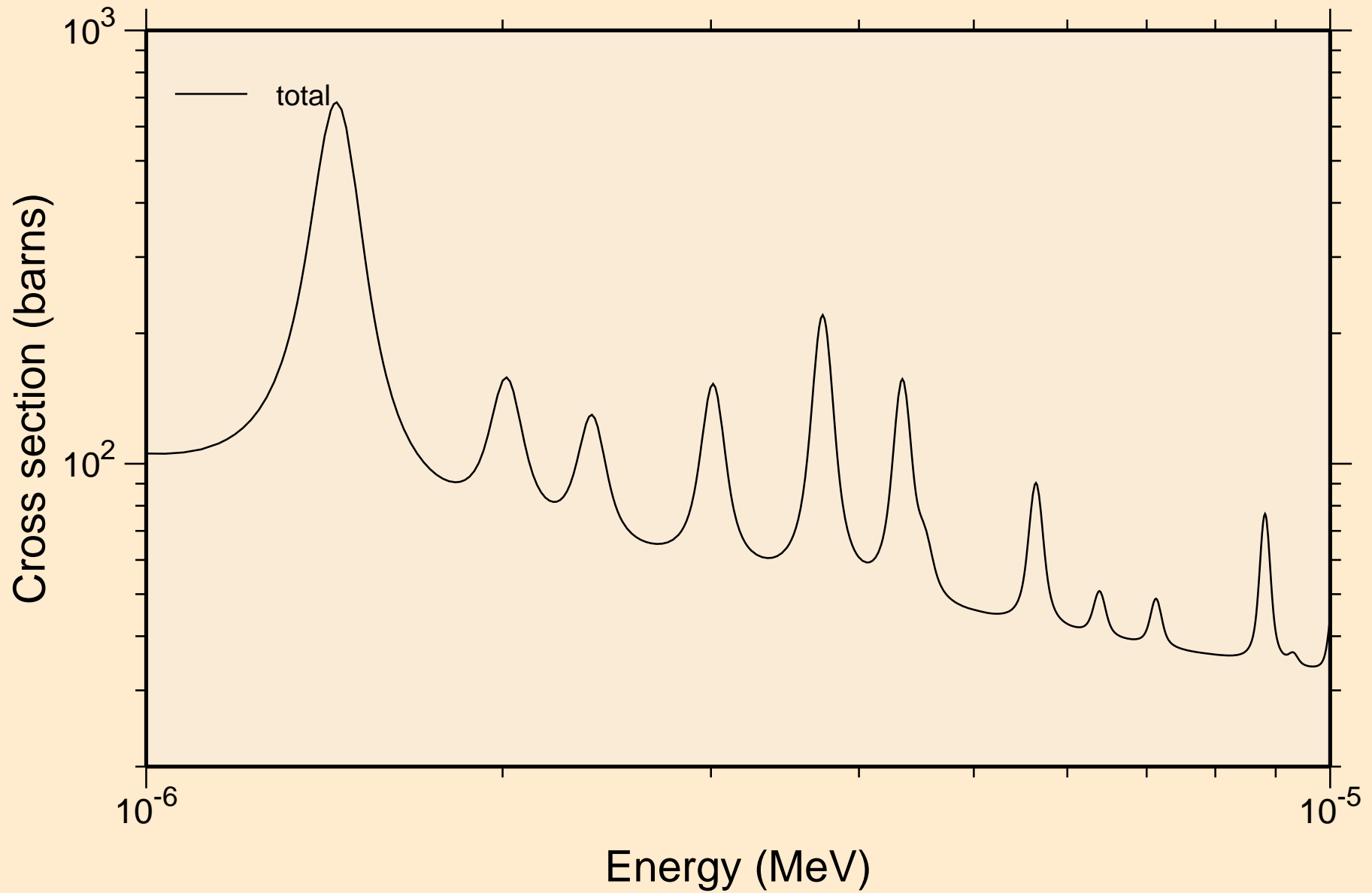


# HF163 NRG TENDL-2015, AKONING

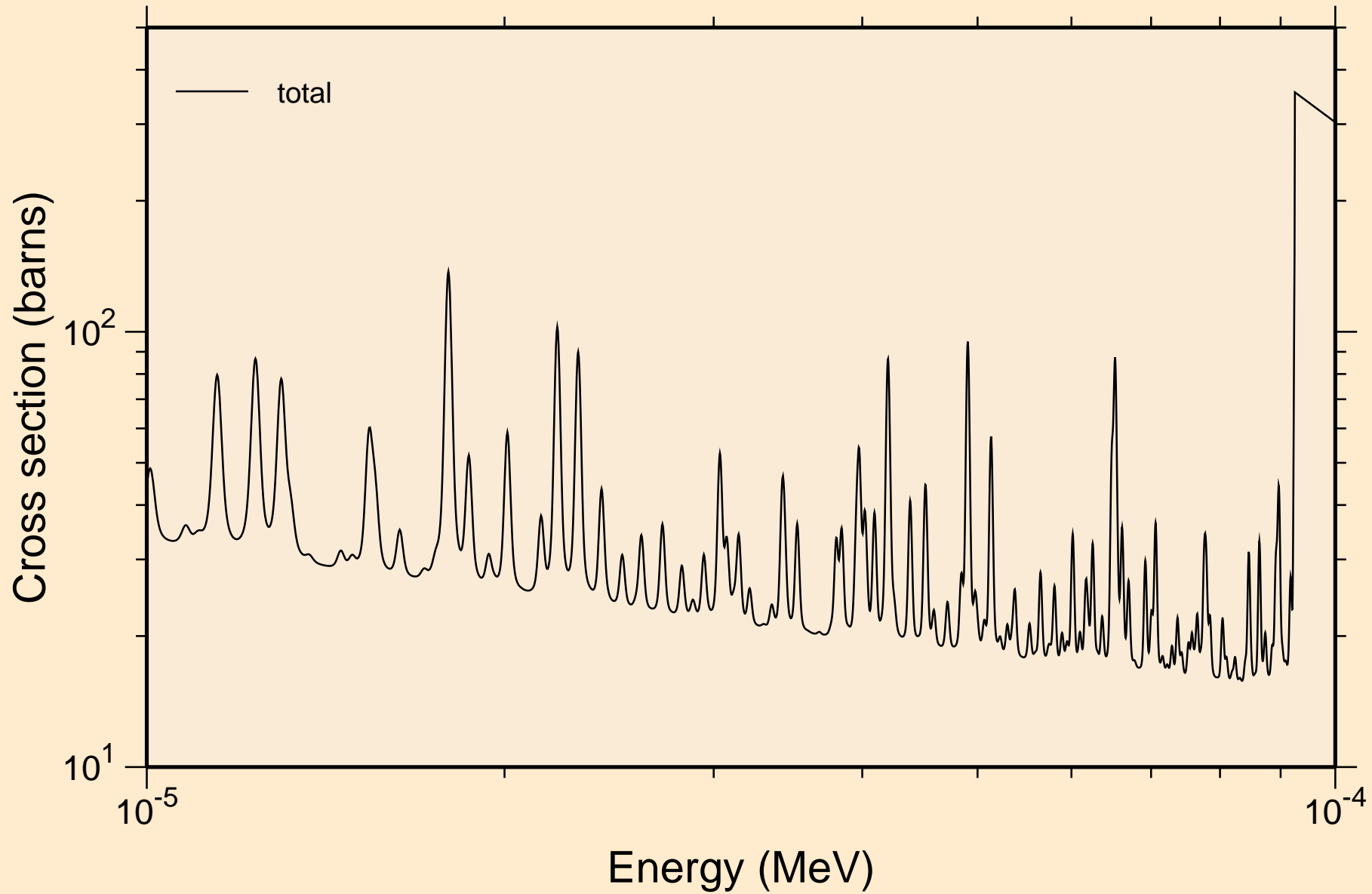
## Principal cross sections



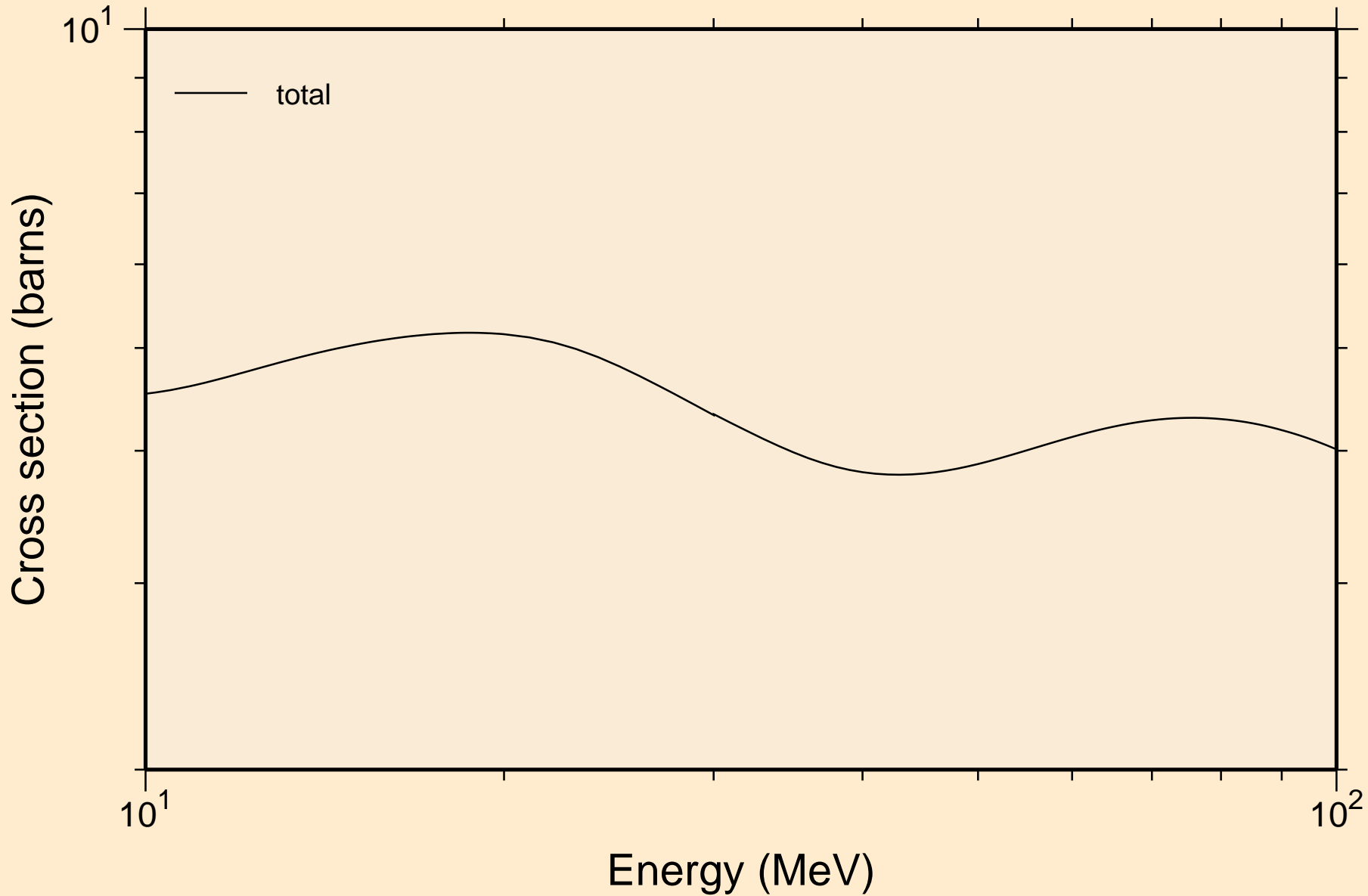
HF163 NRG TENDL-2015, AKONING  
resonance total cross section



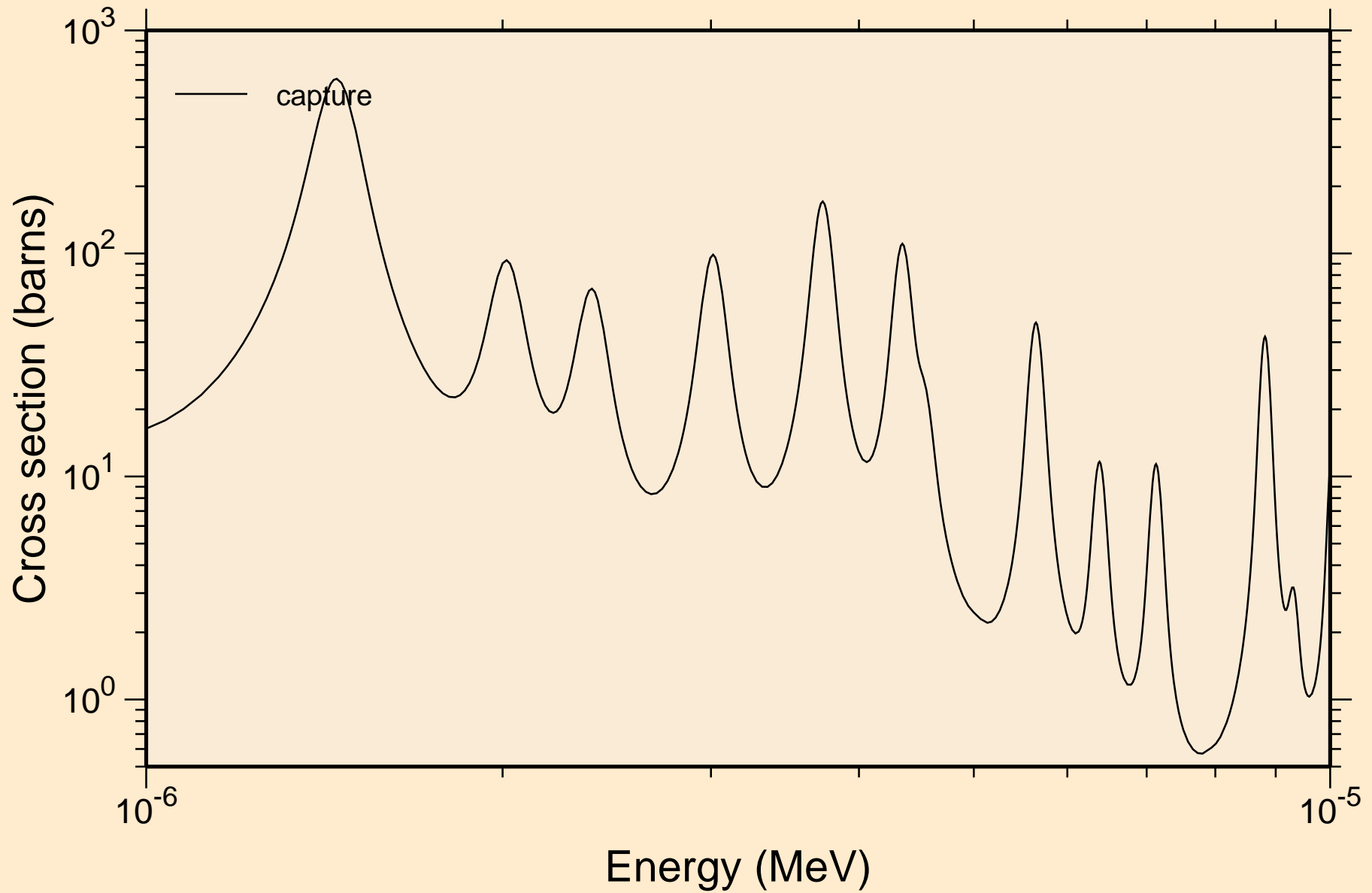
HF163 NRG TENDL-2015, AKONING  
resonance total cross section



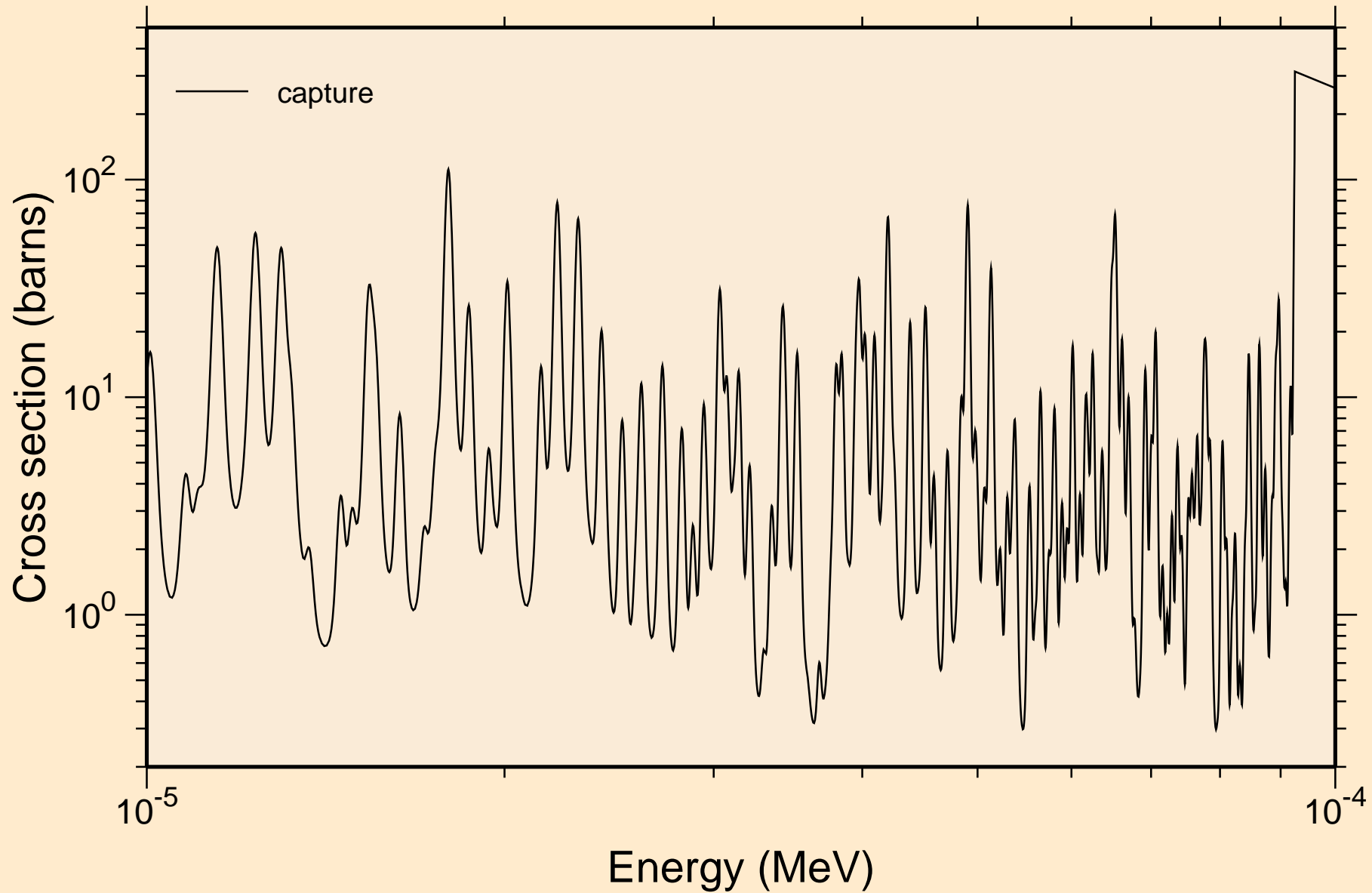
HF163 NRG TENDL-2015, AKONING  
resonance total cross section



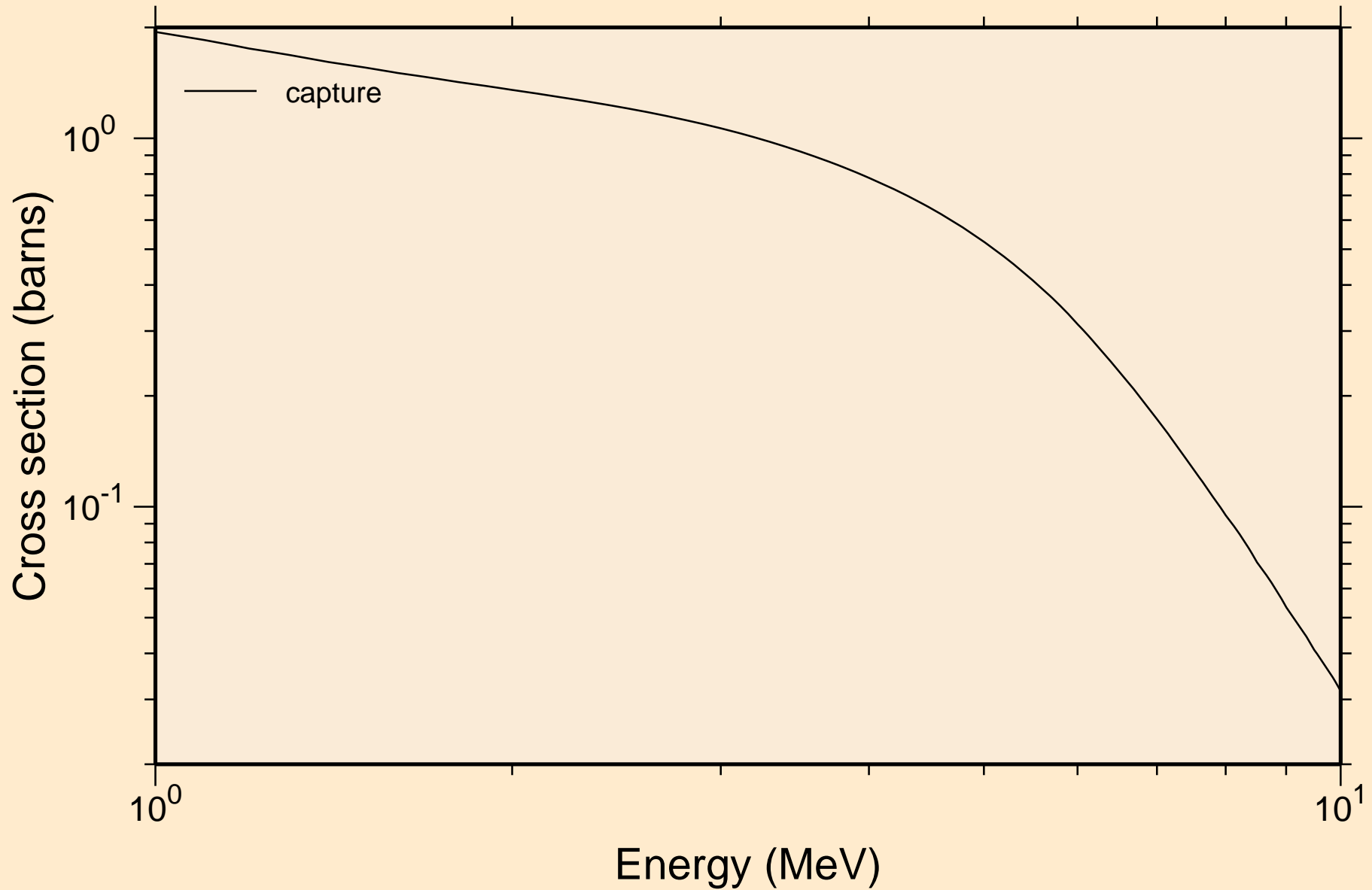
# HF163 NRG TENDL-2015, AKONING resonance absorption cross sections



HF163 NRG TENDL-2015, AKONING  
resonance absorption cross sections

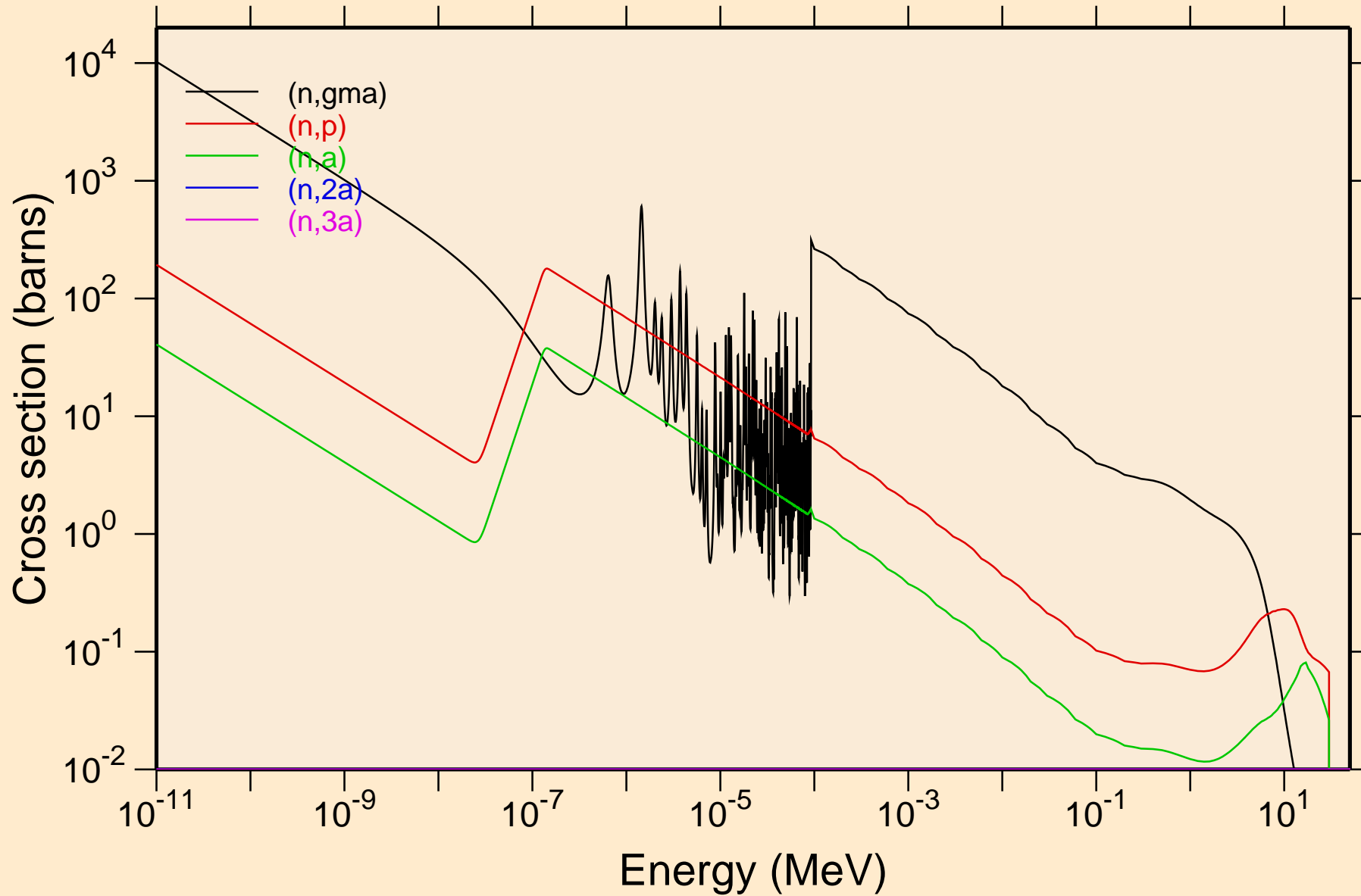


HF163 NRG TENDL-2015, AKONING  
resonance absorption cross sections



# HF163 NRG TENDL-2015, AKONING

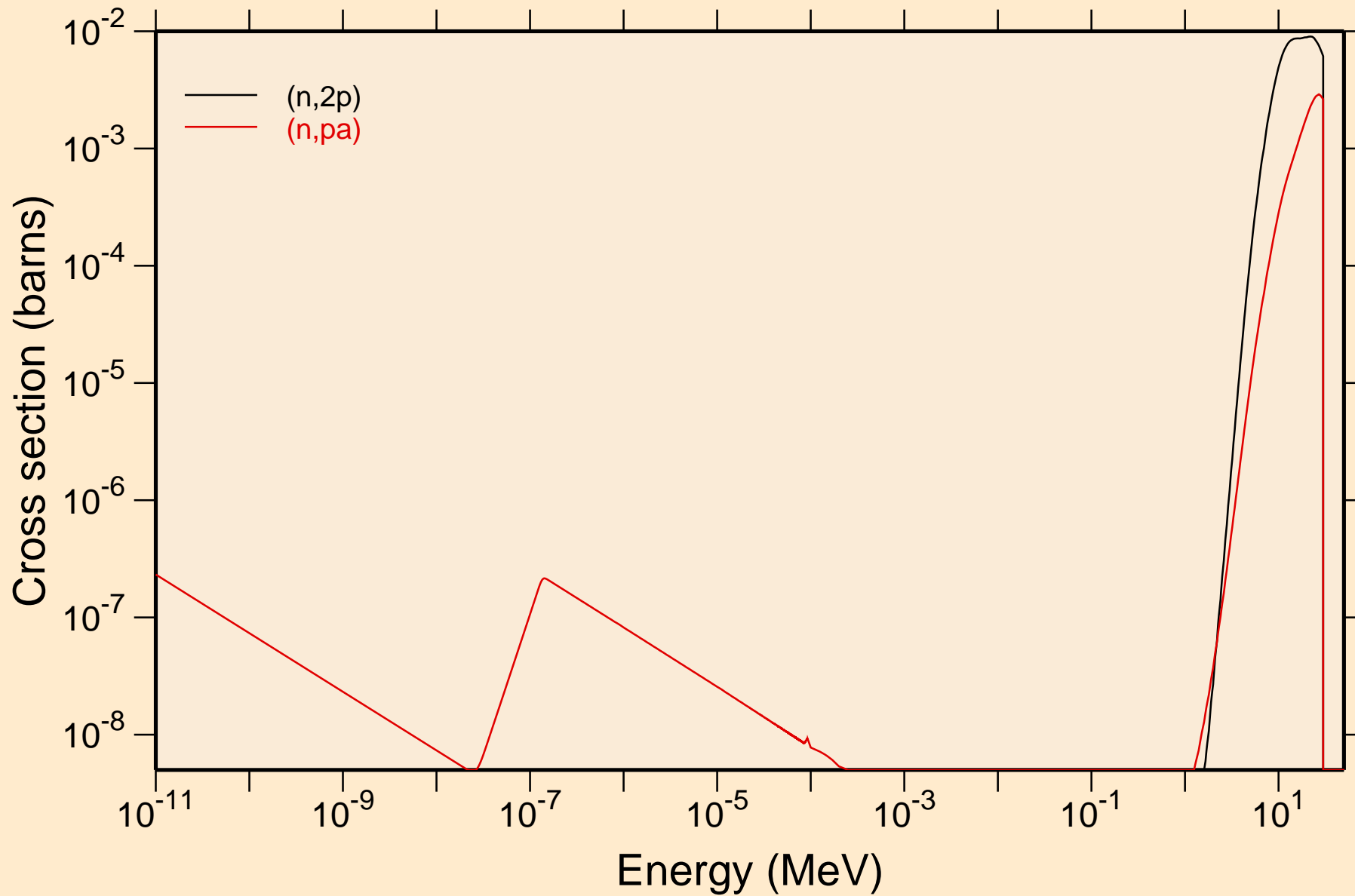
## Non-threshold reactions





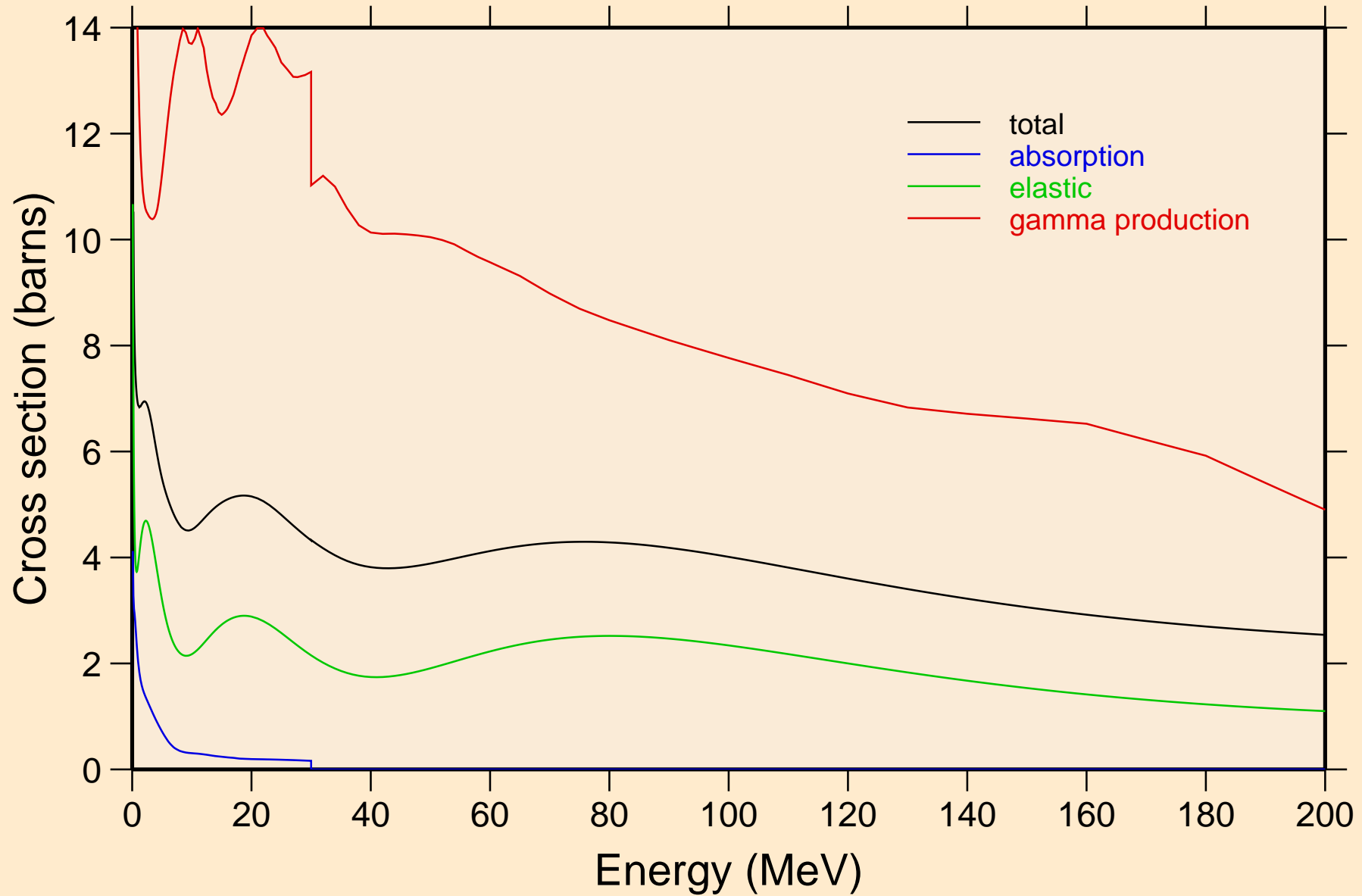
# HF163 NRG TENDL-2015, AKONING

## Non-threshold reactions



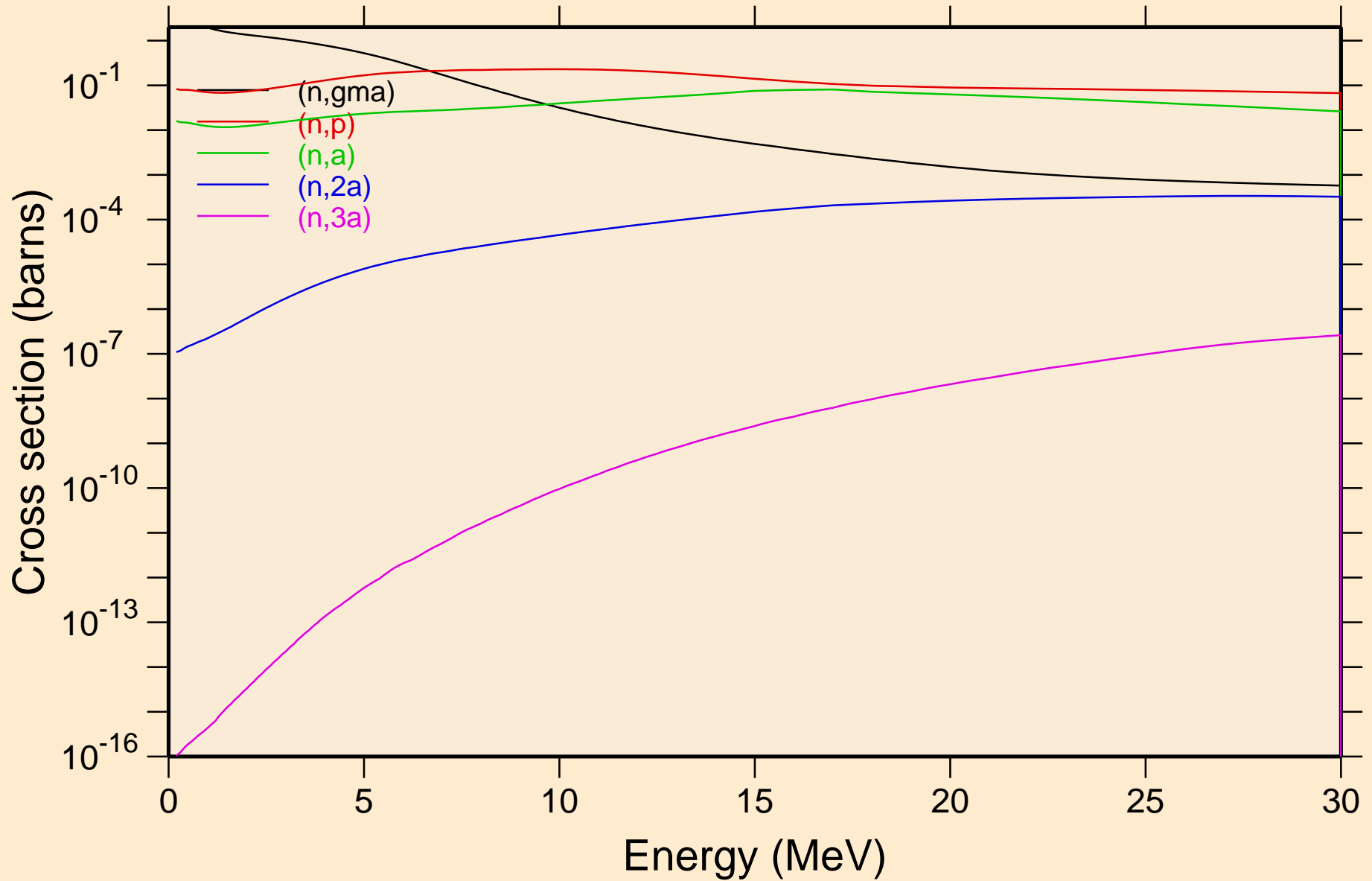
# HF163 NRG TENDL-2015, AKONING

## Principal cross sections



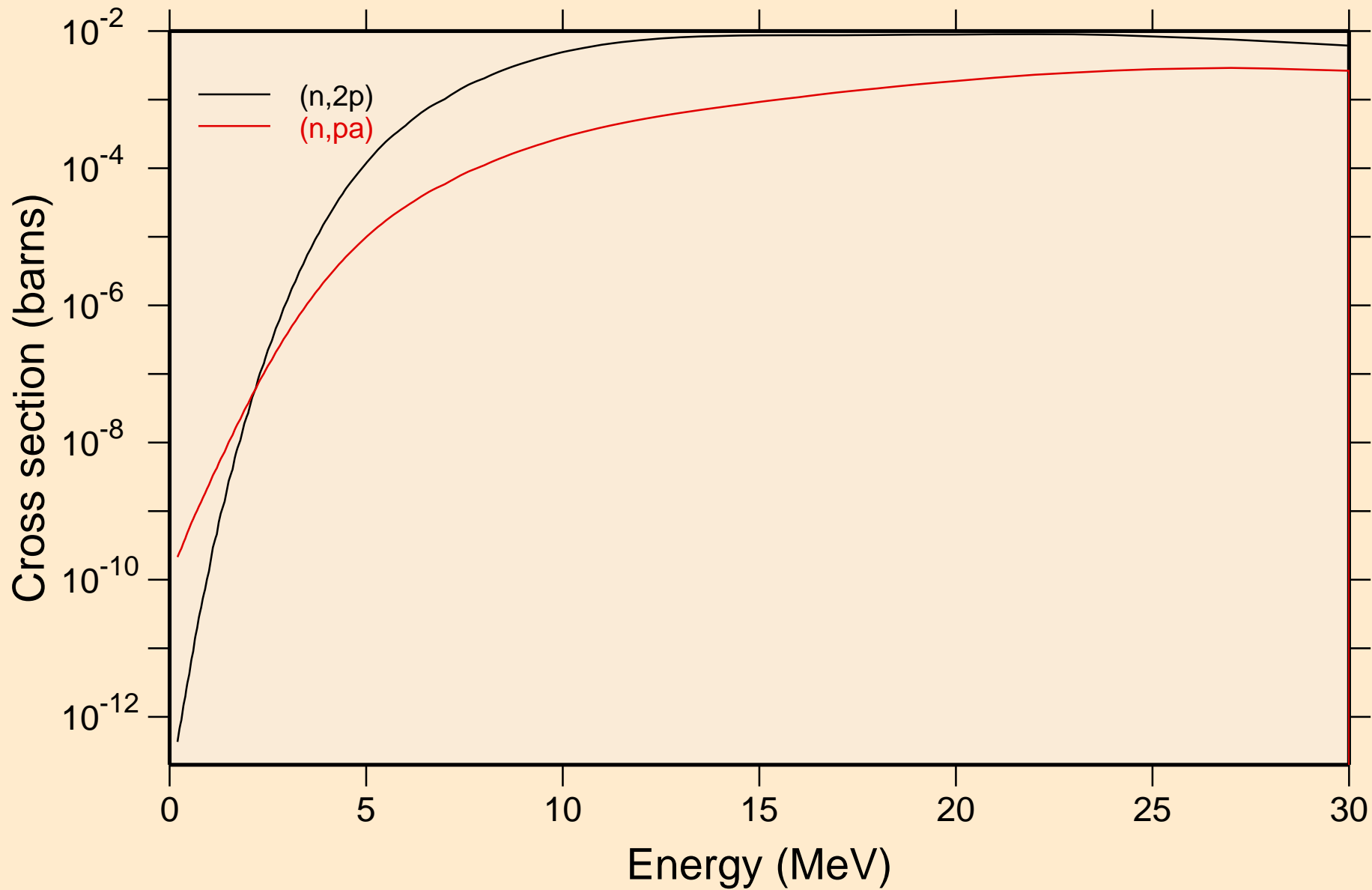
# HF163 NRG TENDL-2015, AKONING

## Non-threshold reactions

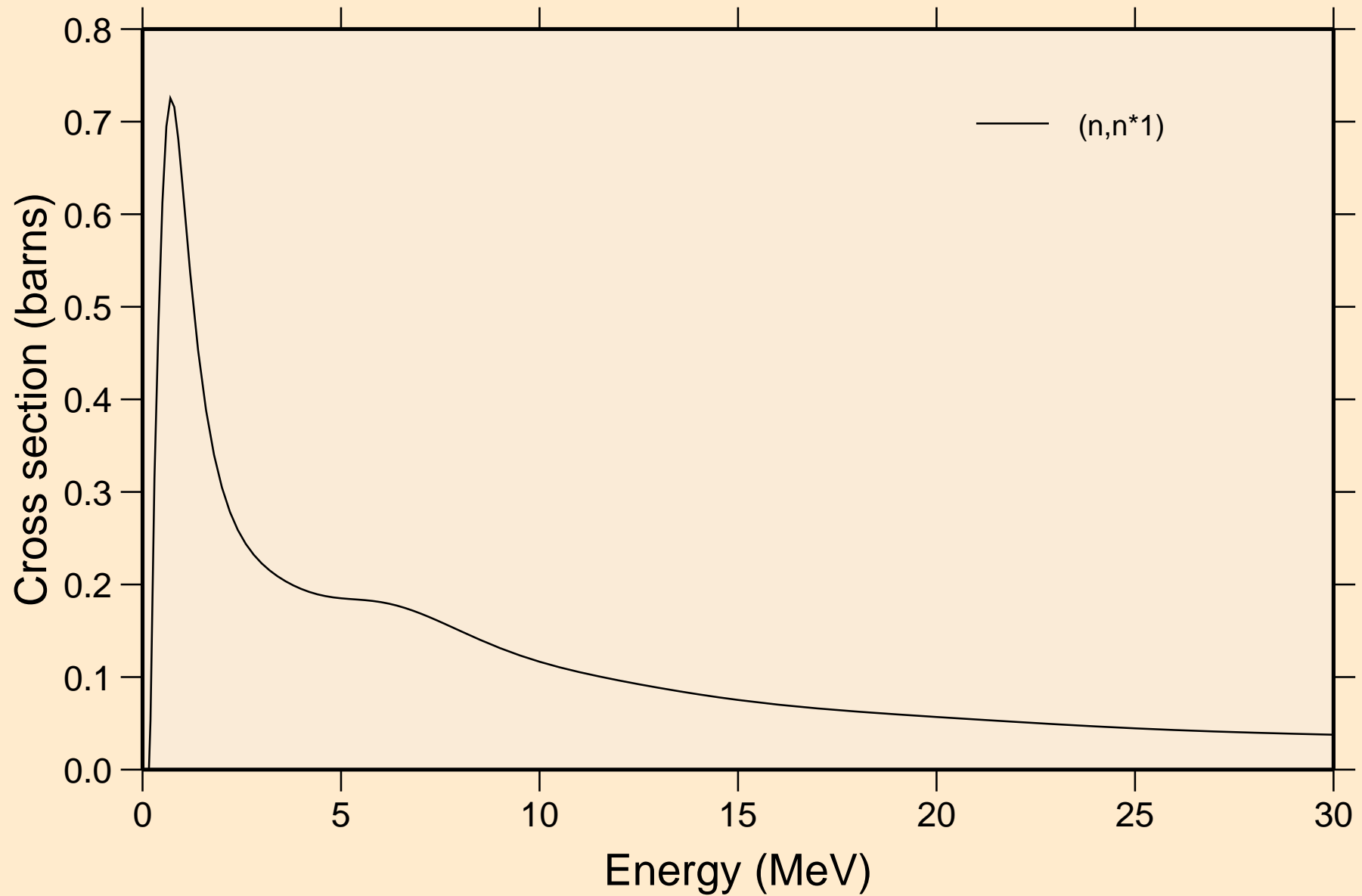


# HF163 NRG TENDL-2015, AKONING

## Non-threshold reactions

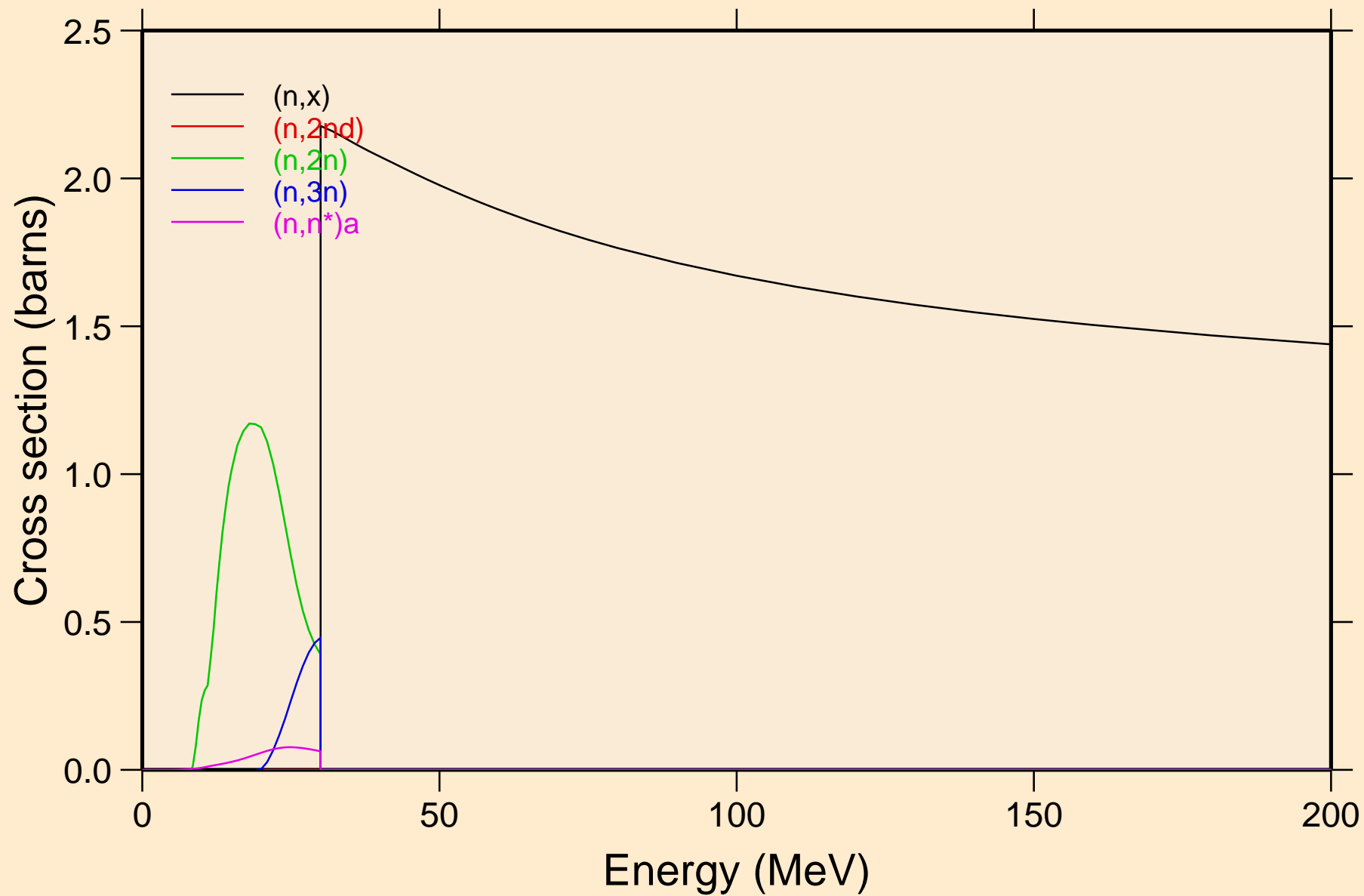


HF163 NRG TENDL-2015, AKONING  
Inelastic levels



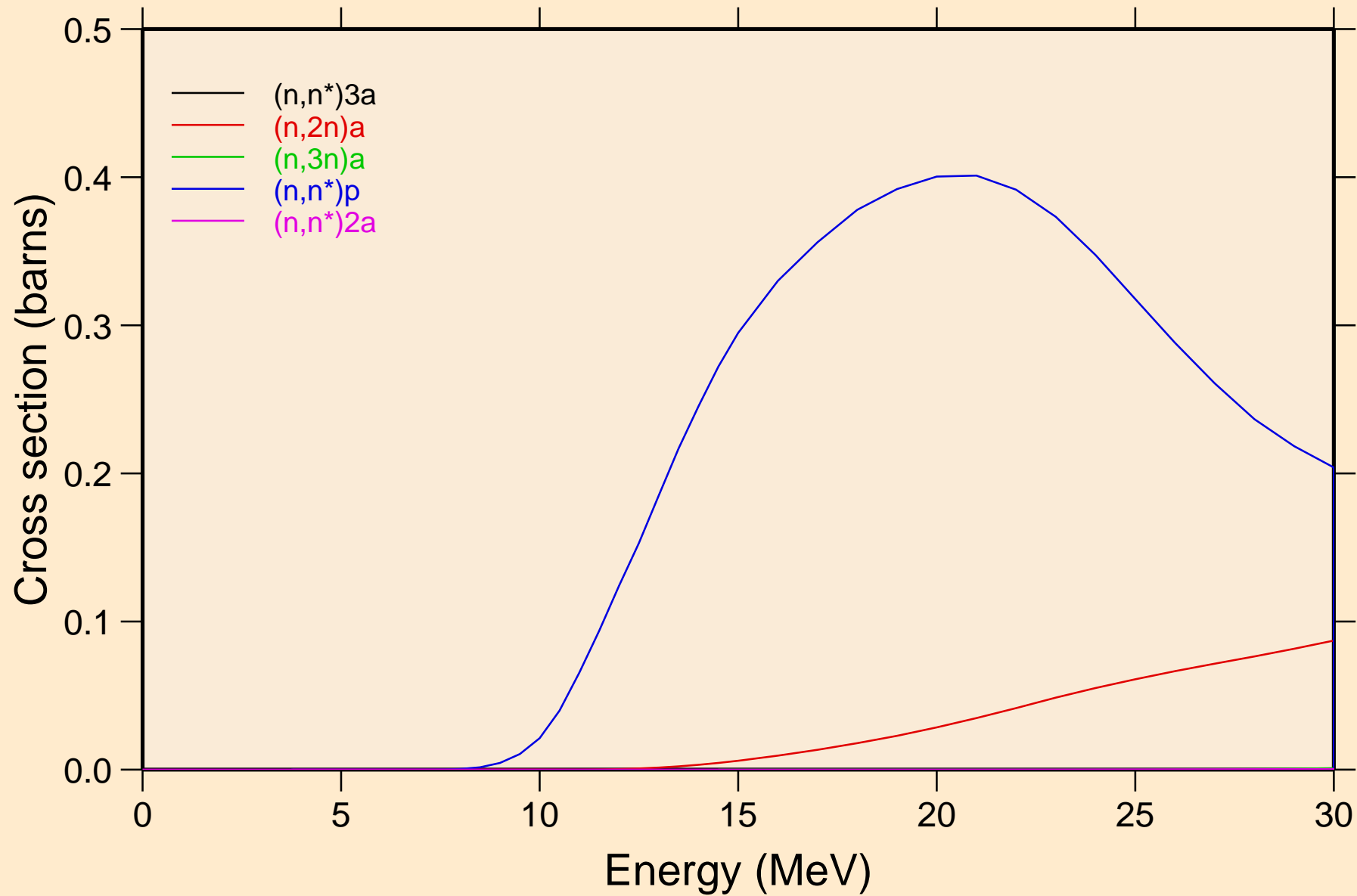
# HF163 NRG TENDL-2015, AKONING

## Threshold reactions



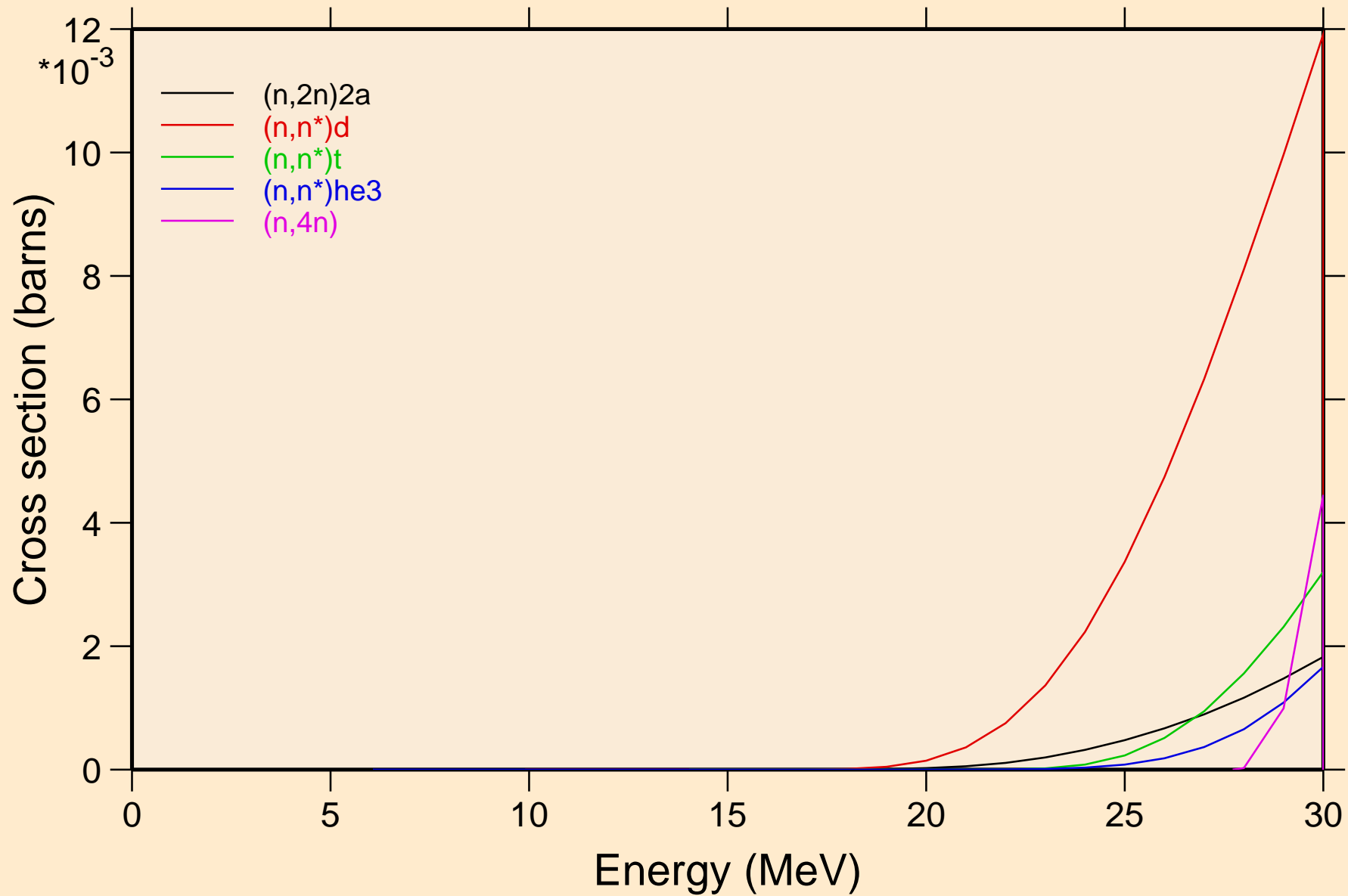
# HF163 NRG TENDL-2015, AKONING

## Threshold reactions



# HF163 NRG TENDL-2015, AKONING

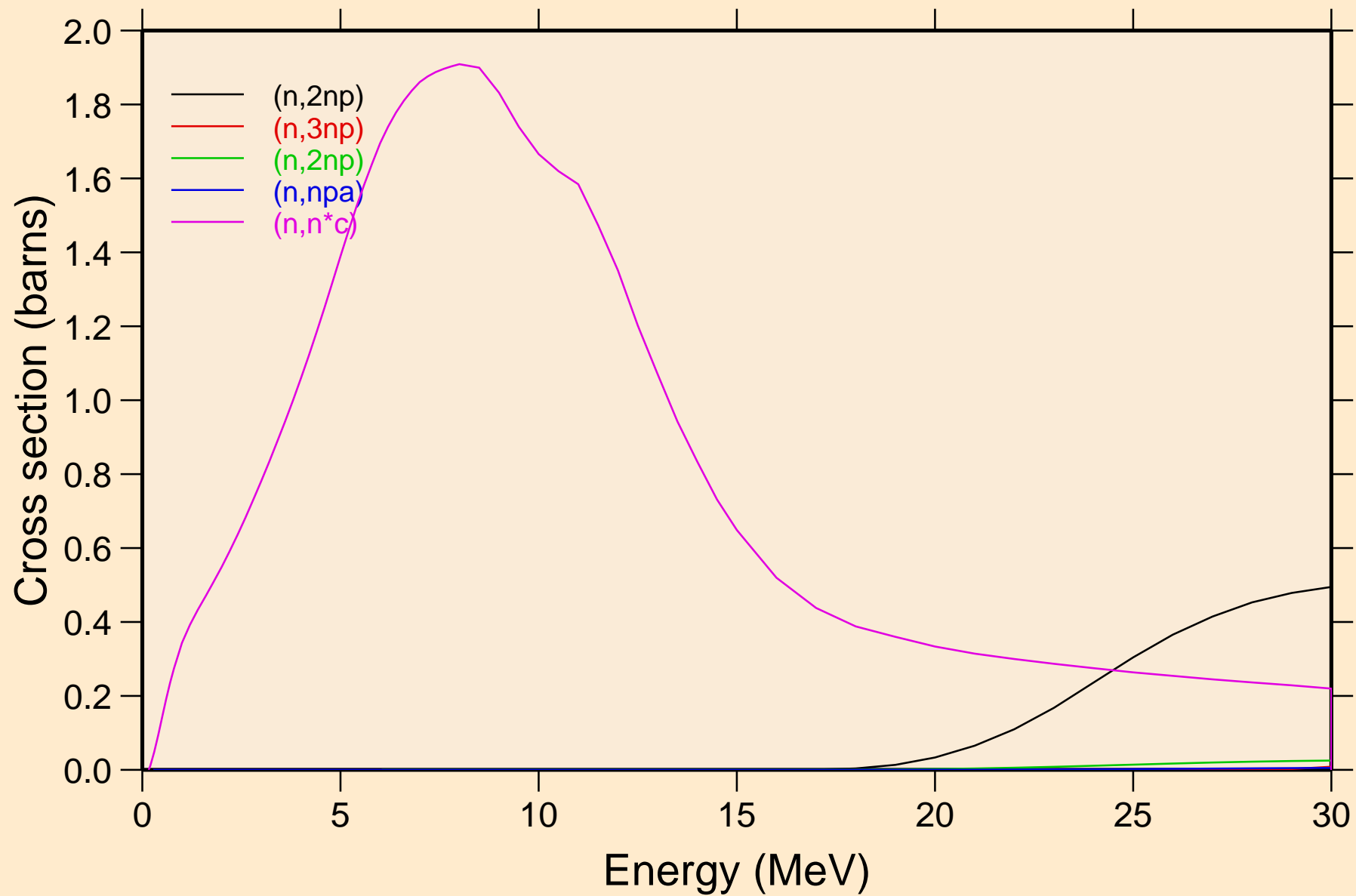
## Threshold reactions





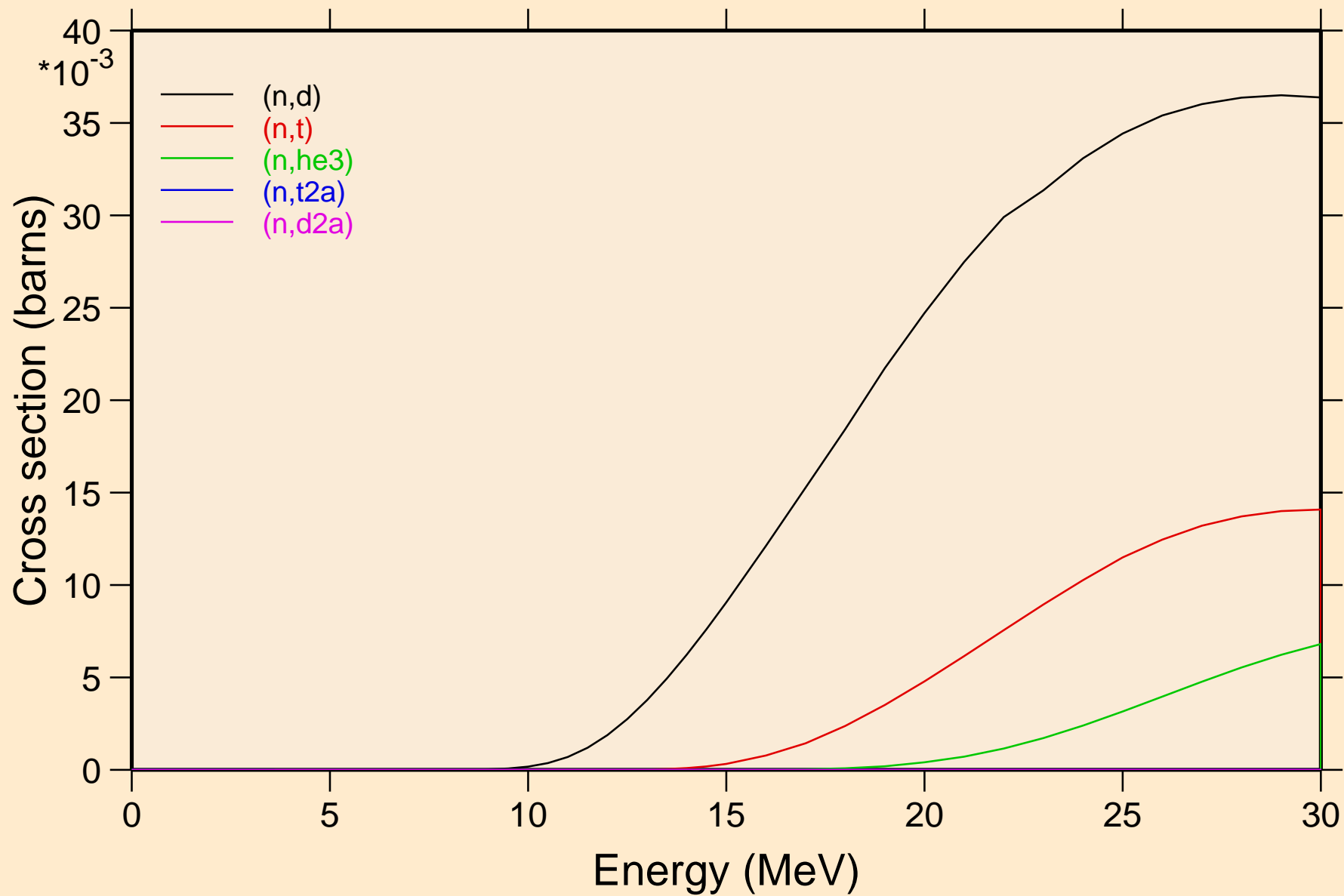
# HF163 NRG TENDL-2015, AKONING

## Threshold reactions



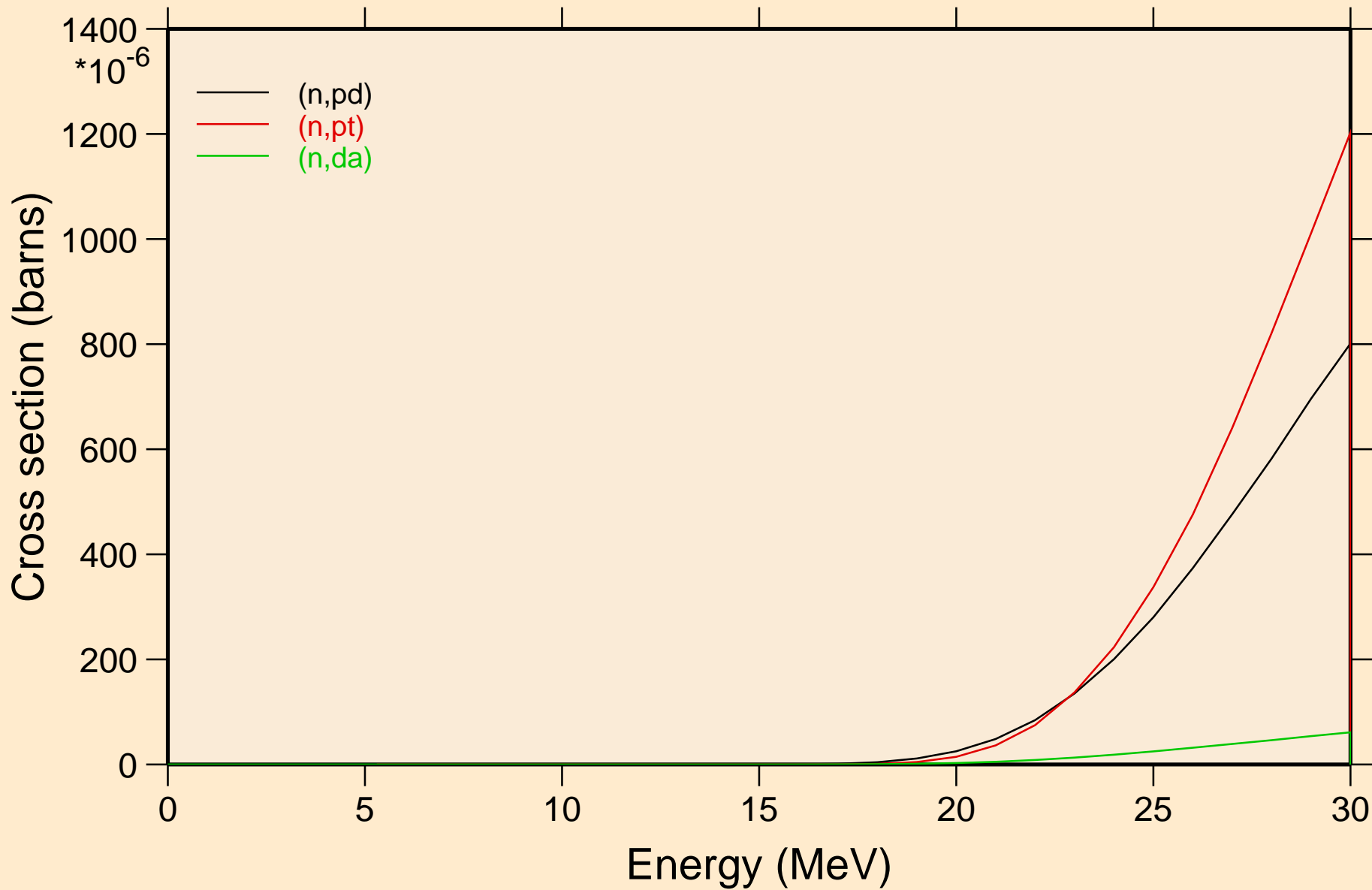
# HF163 NRG TENDL-2015, AKONING

## Threshold reactions

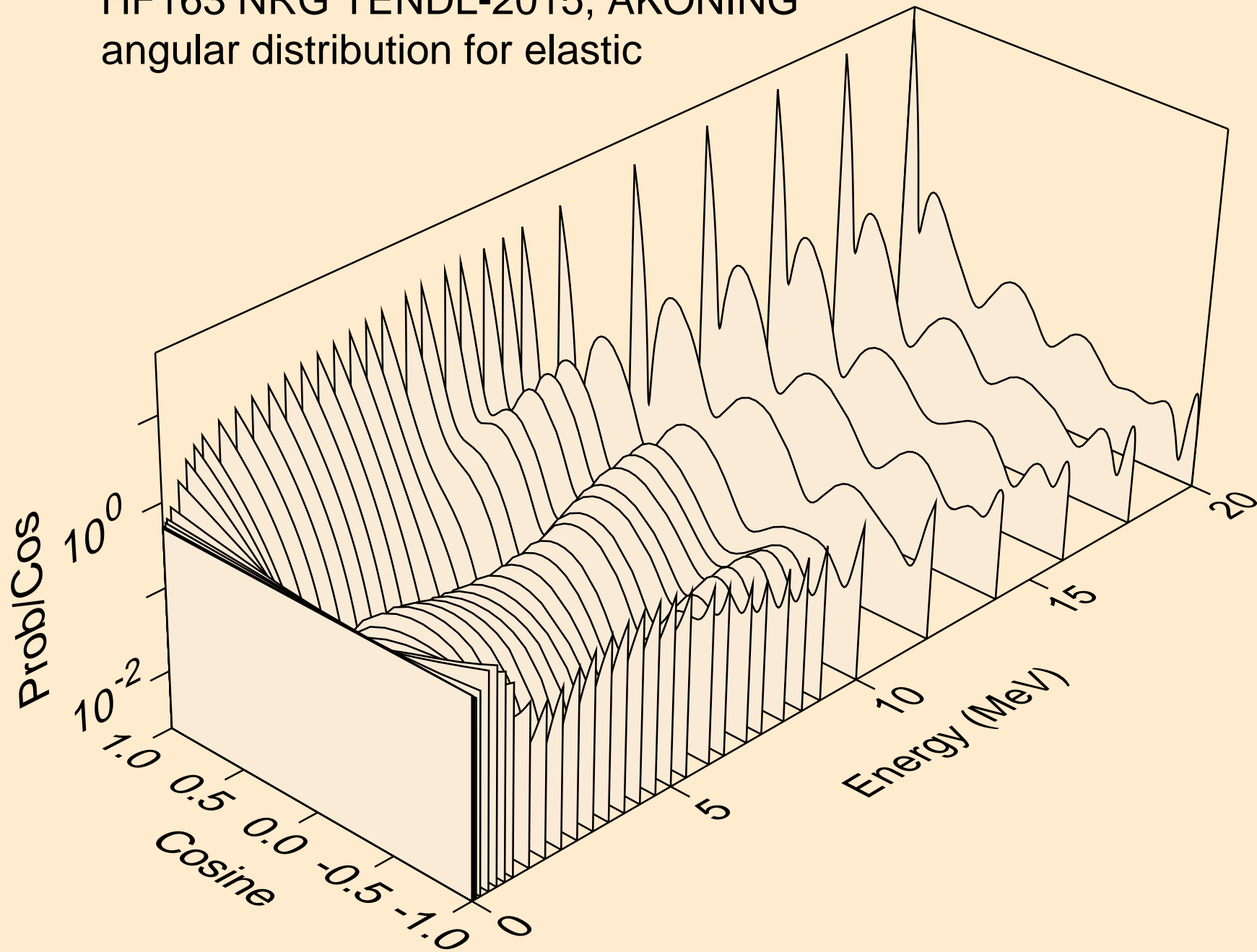


# HF163 NRG TENDL-2015, AKONING

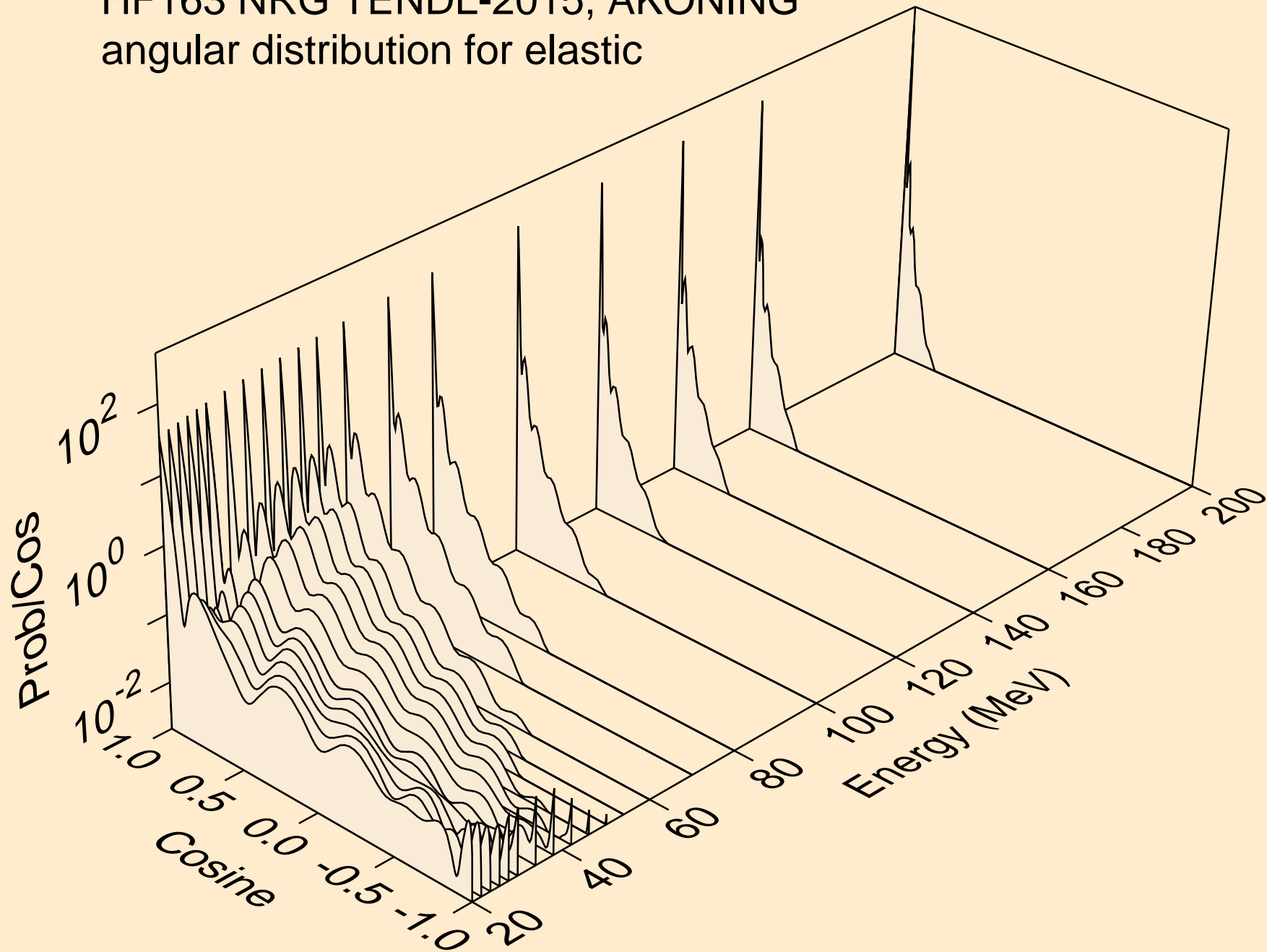
## Threshold reactions



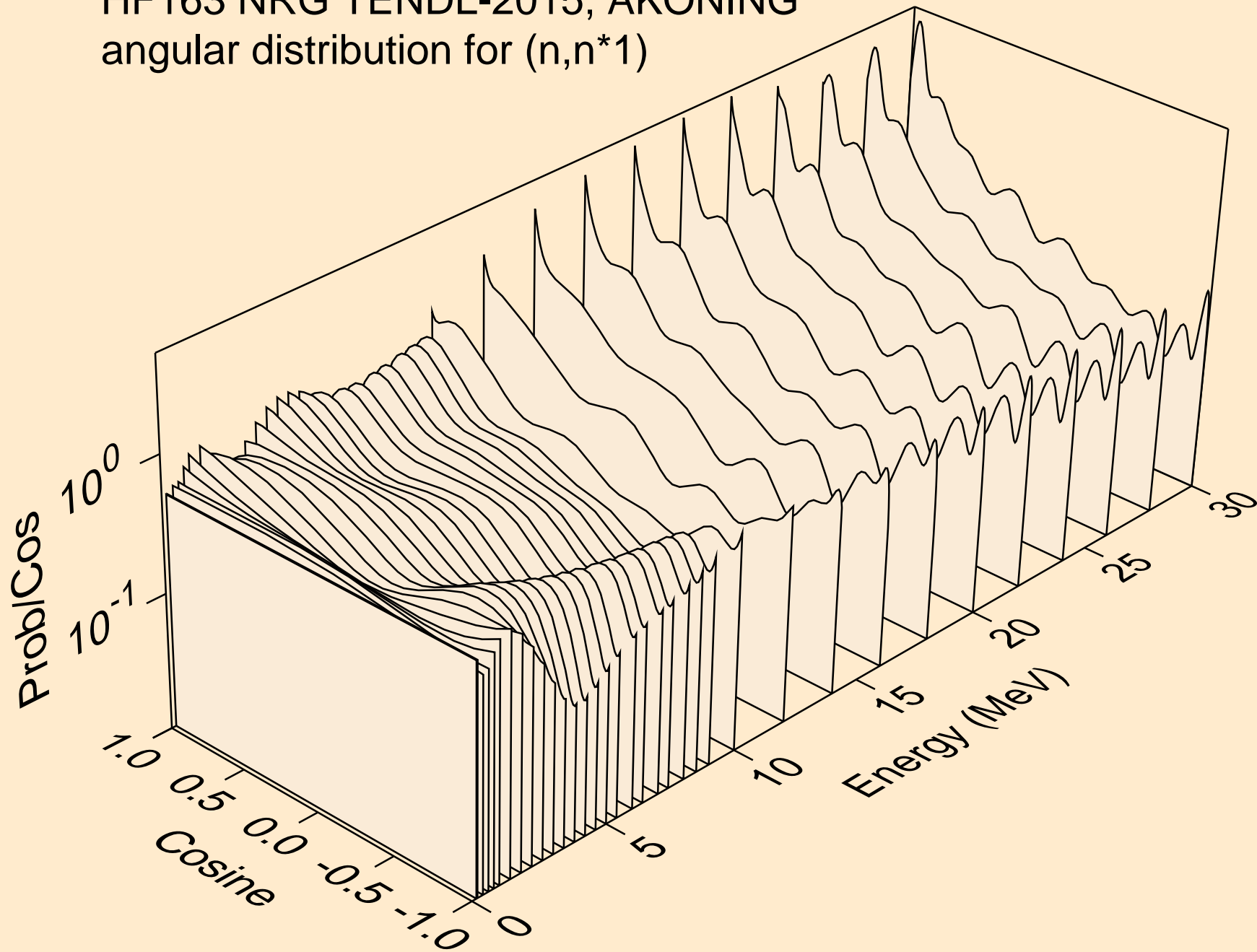
HF163 NRG TENDL-2015, AKONING  
angular distribution for elastic



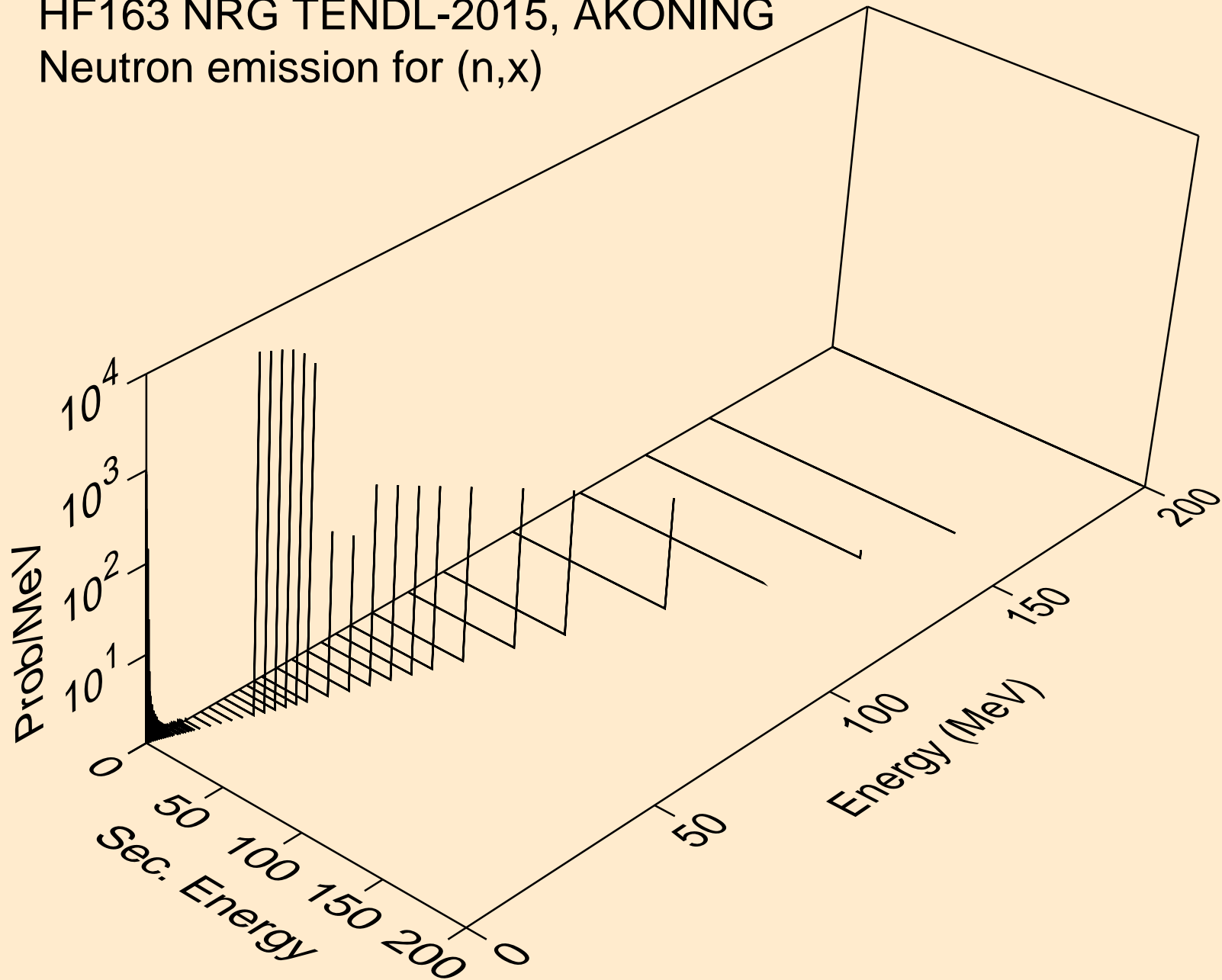
HF163 NRG TENDL-2015, AKONING  
angular distribution for elastic



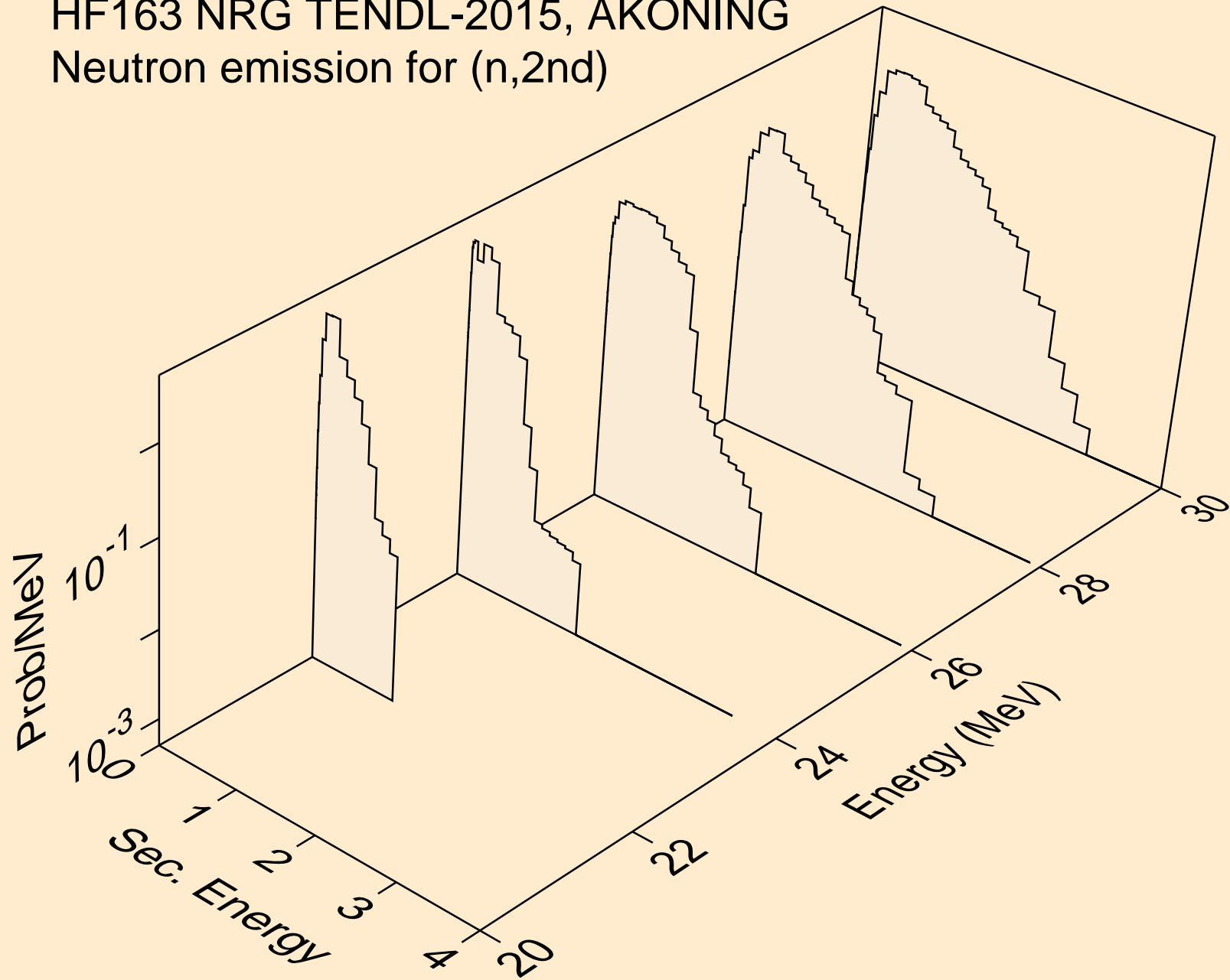
HF163 NRG TENDL-2015, AKONING  
angular distribution for (n,n\*1)



HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,x)

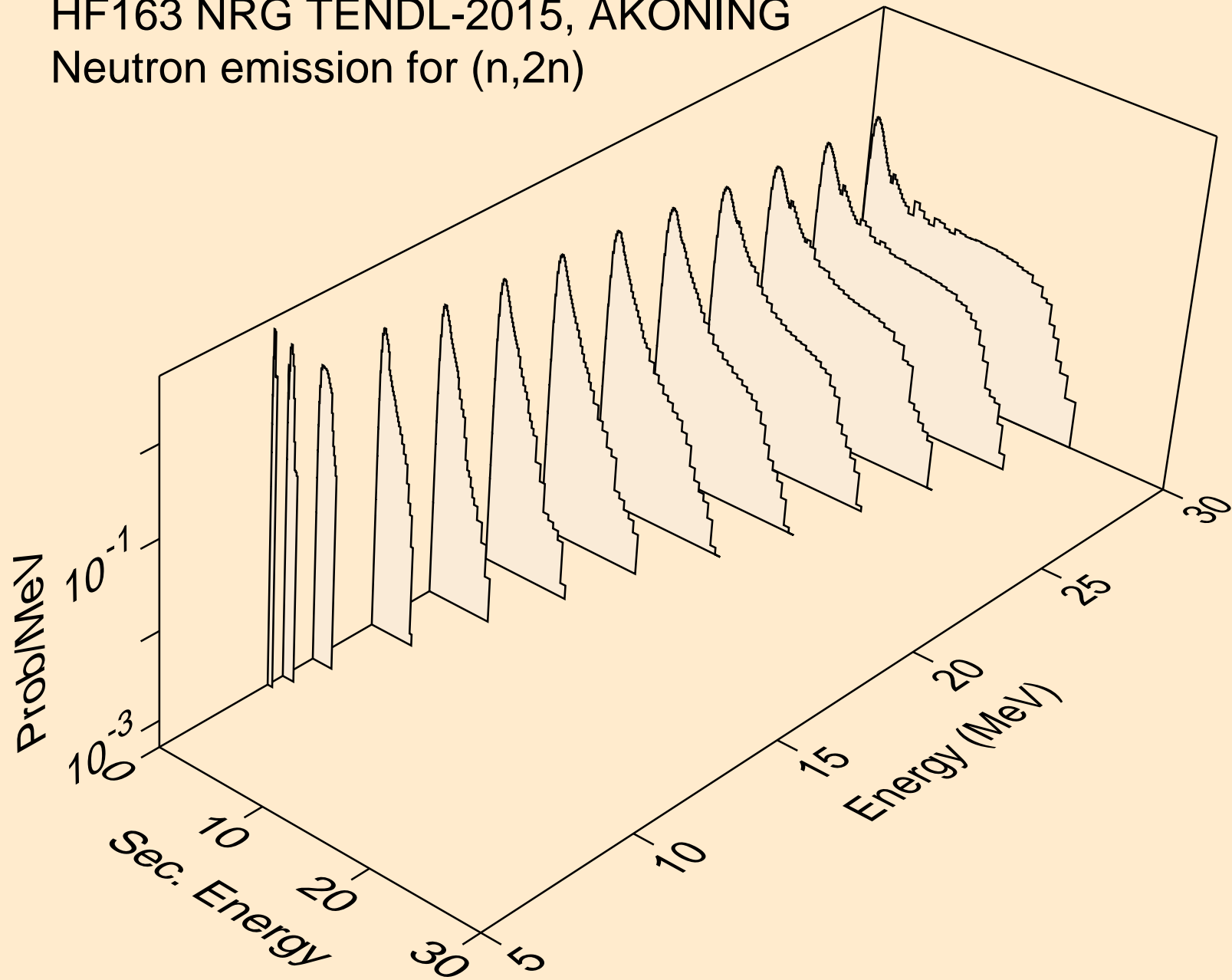


HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,2nd)

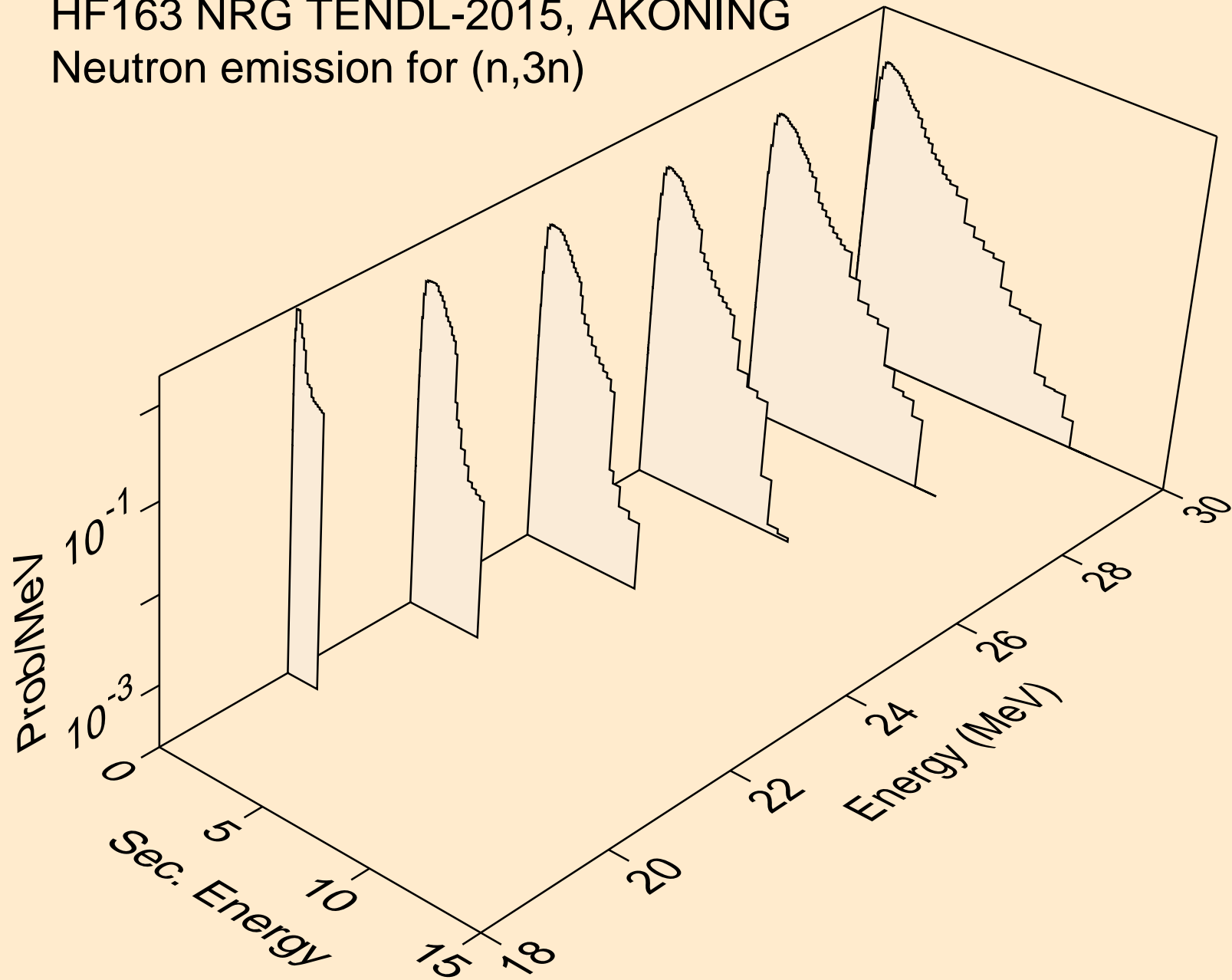




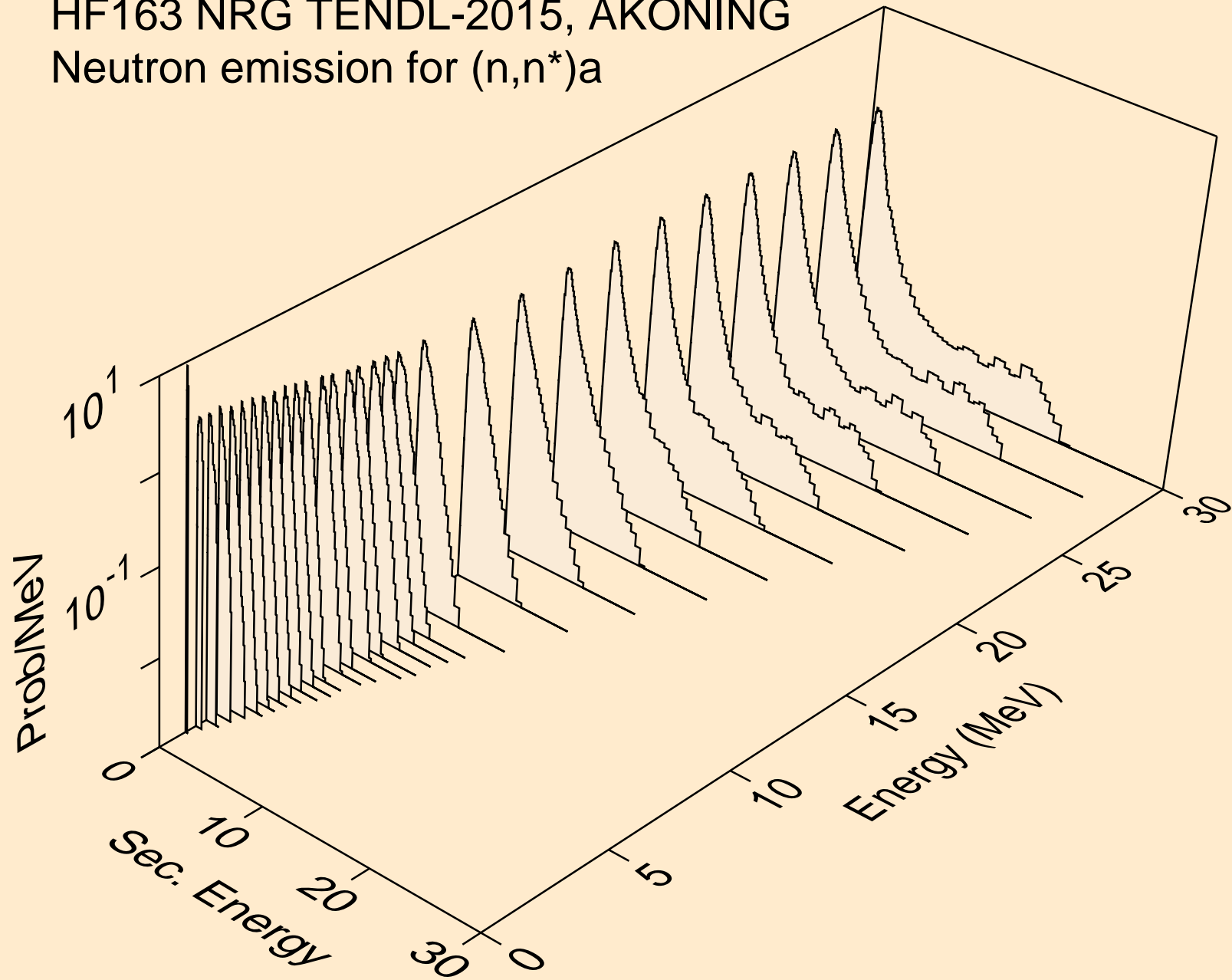
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)



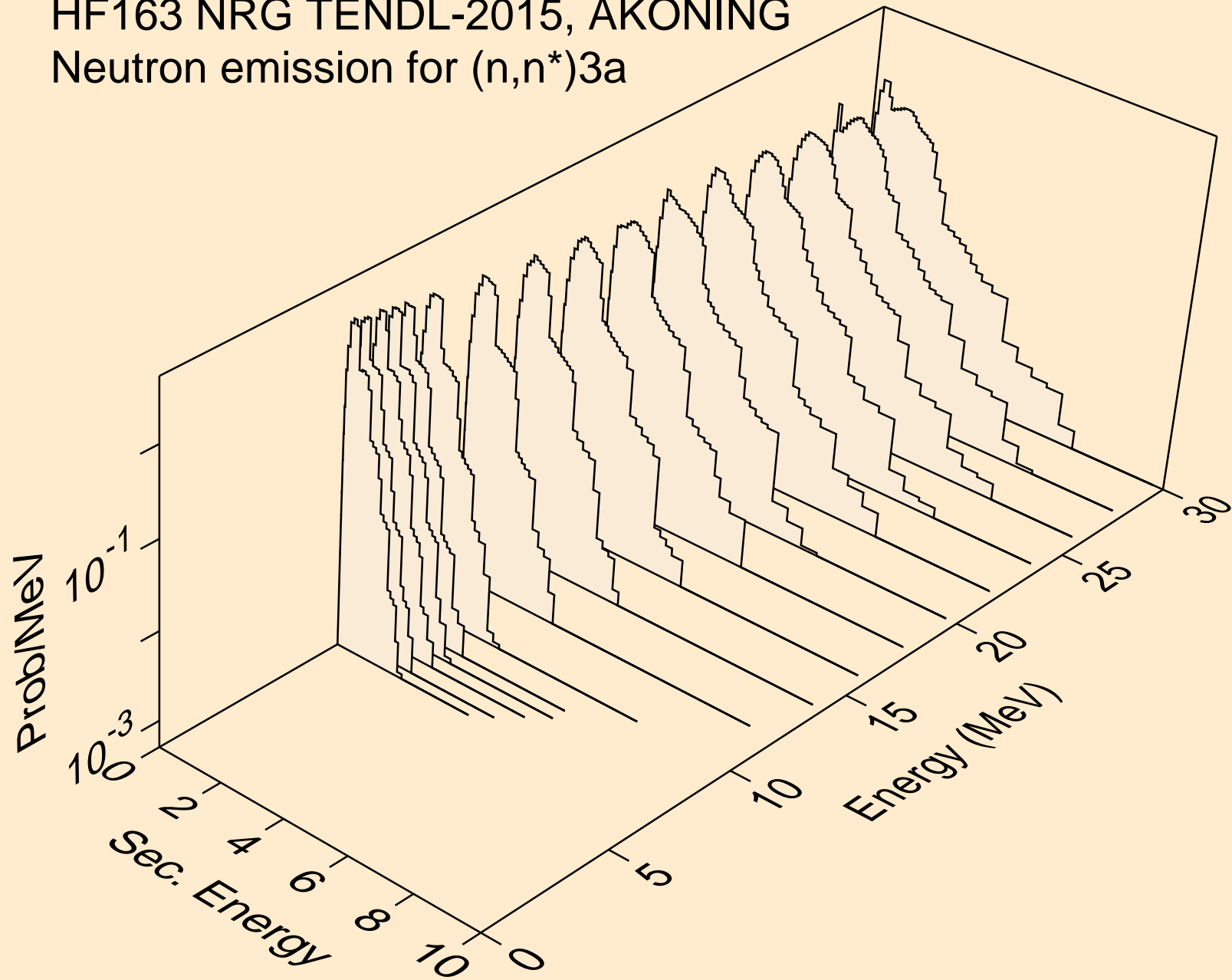
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)



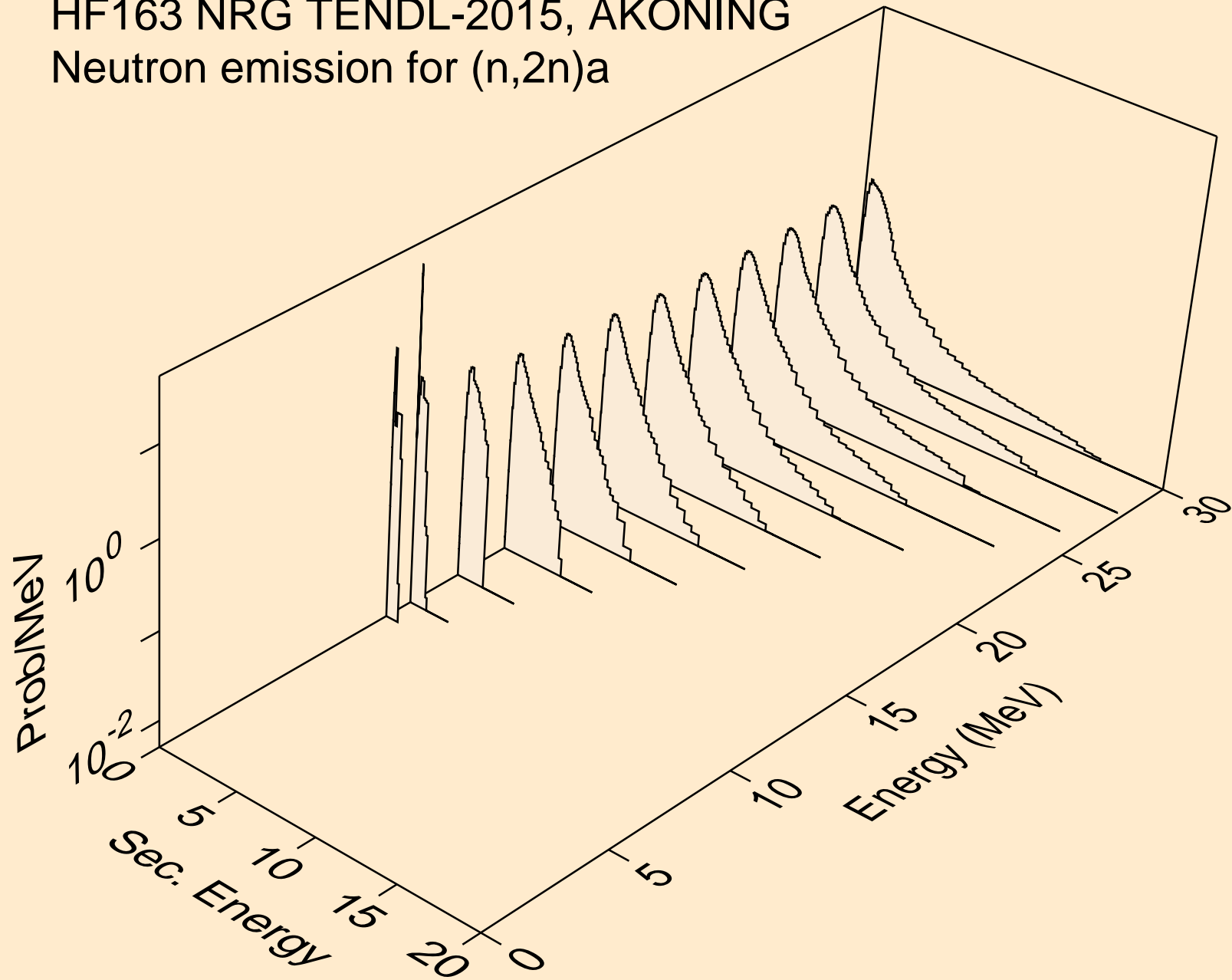
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)a



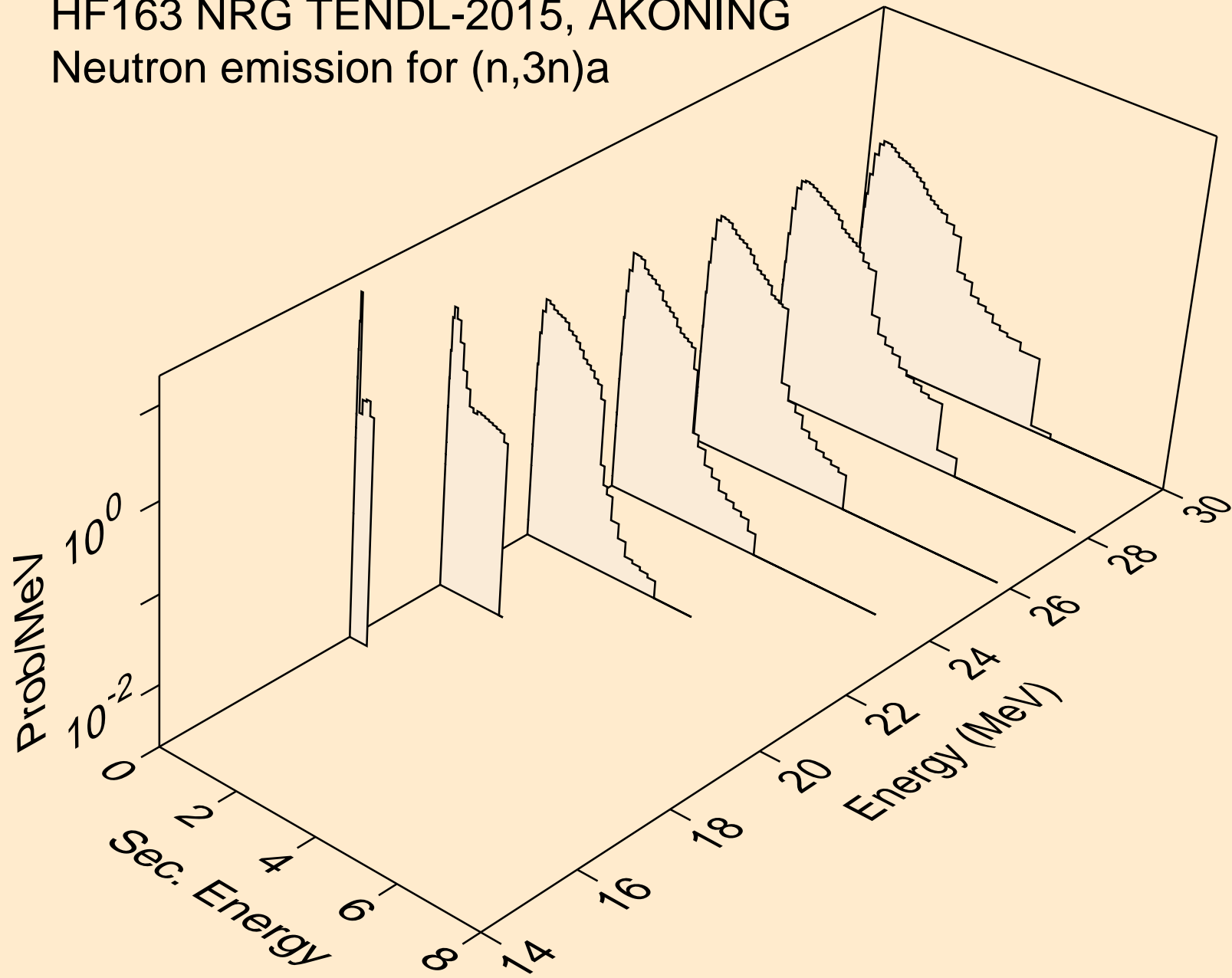
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)3a



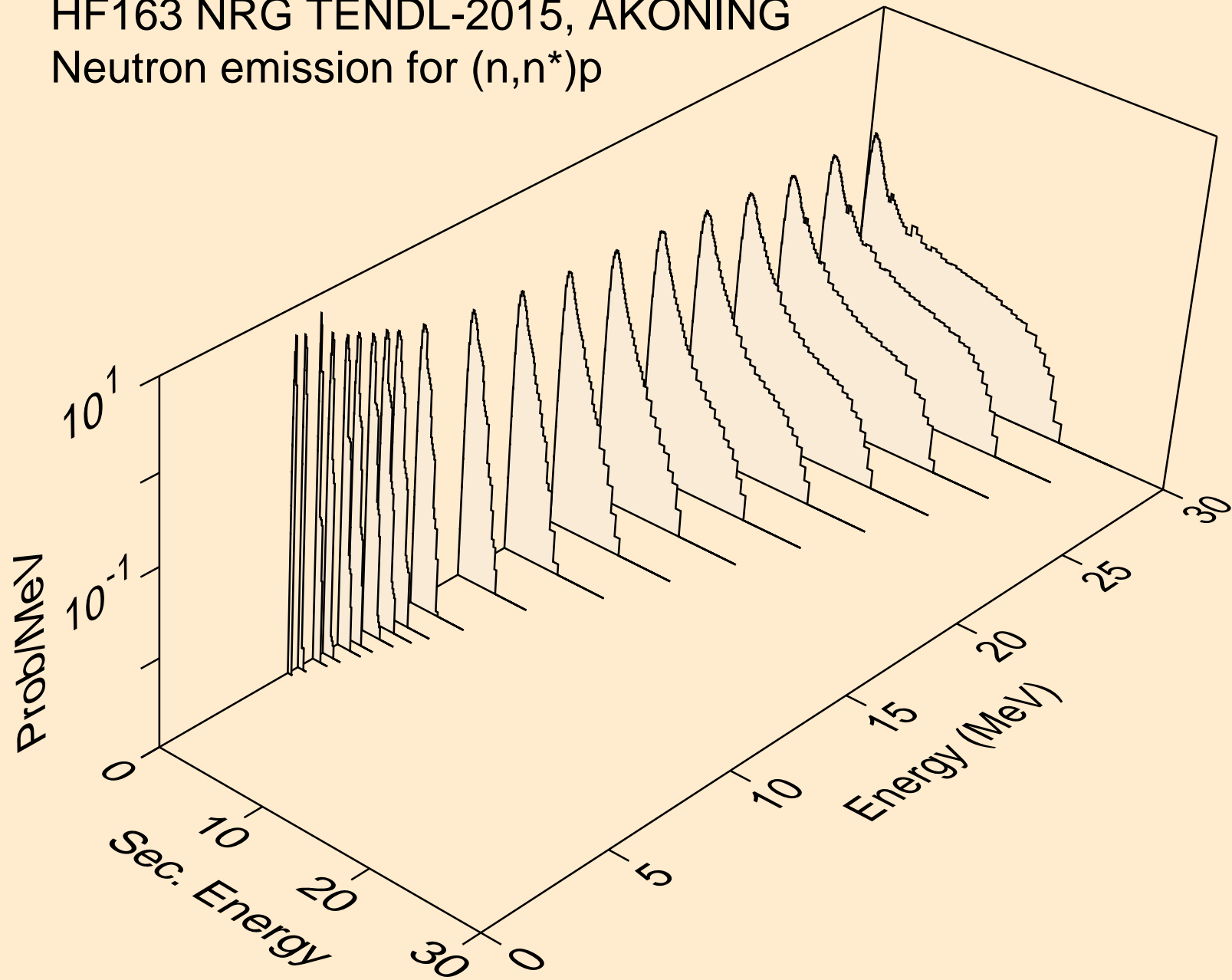
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)a



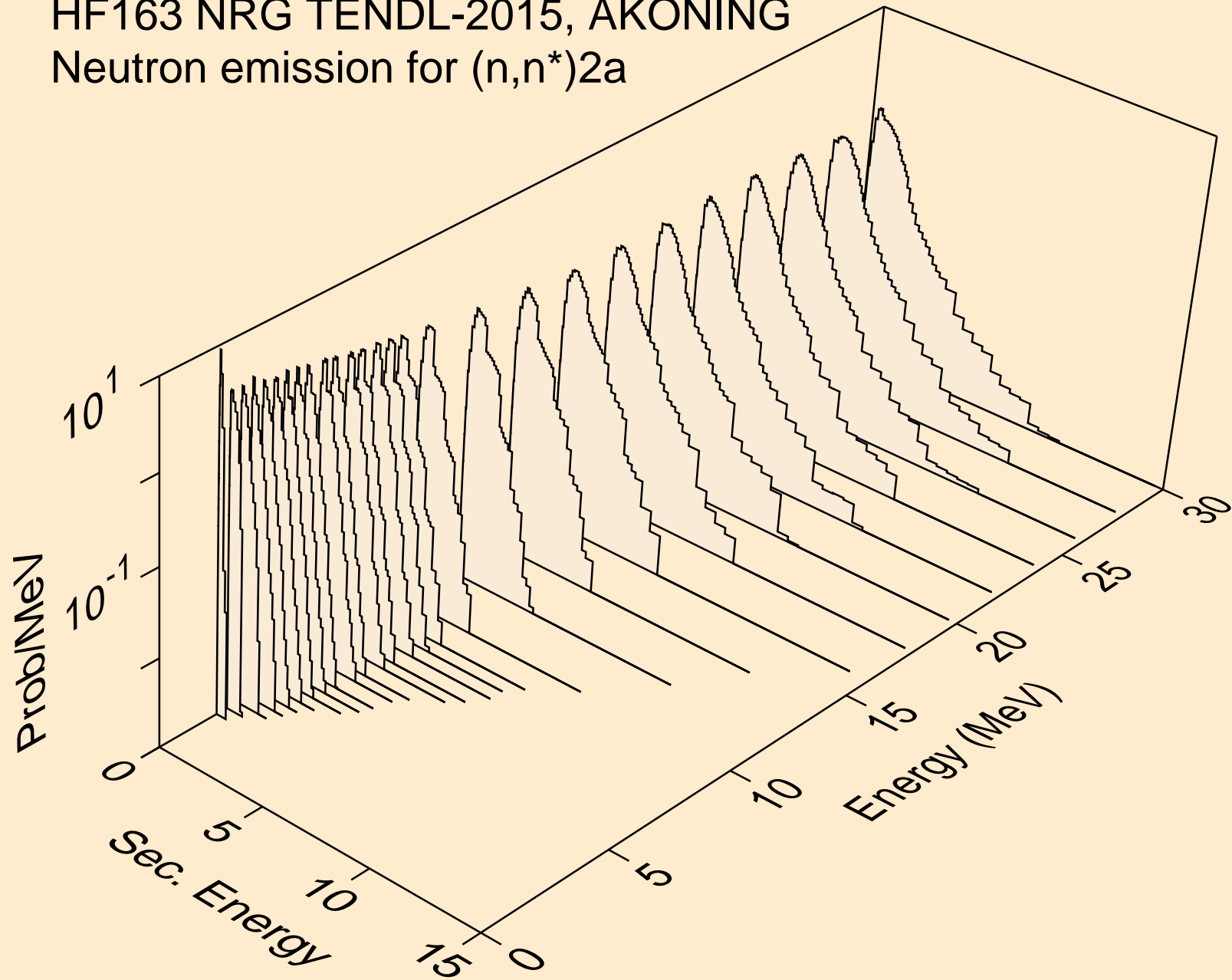
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,3n)a



HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)p

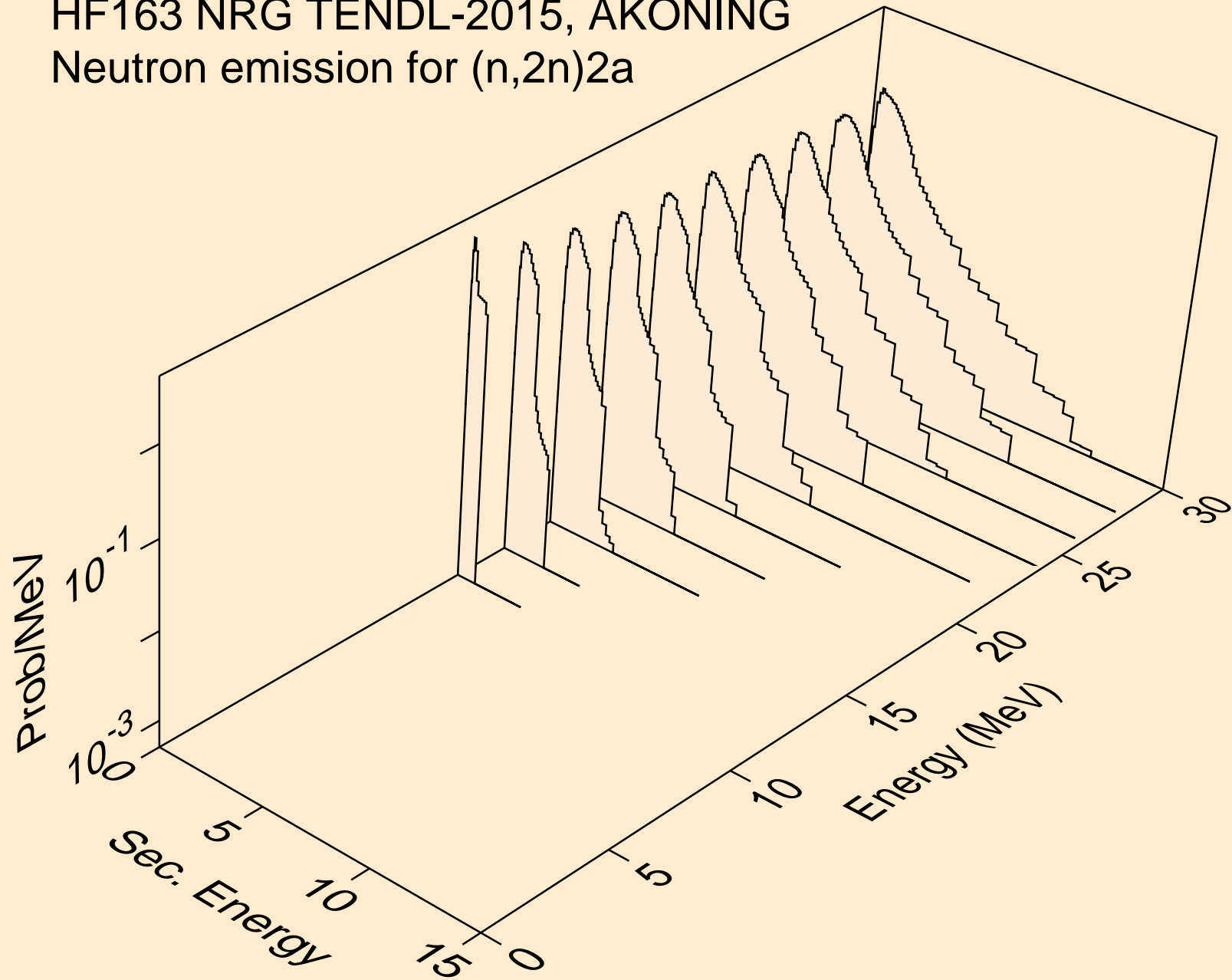


HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)2a

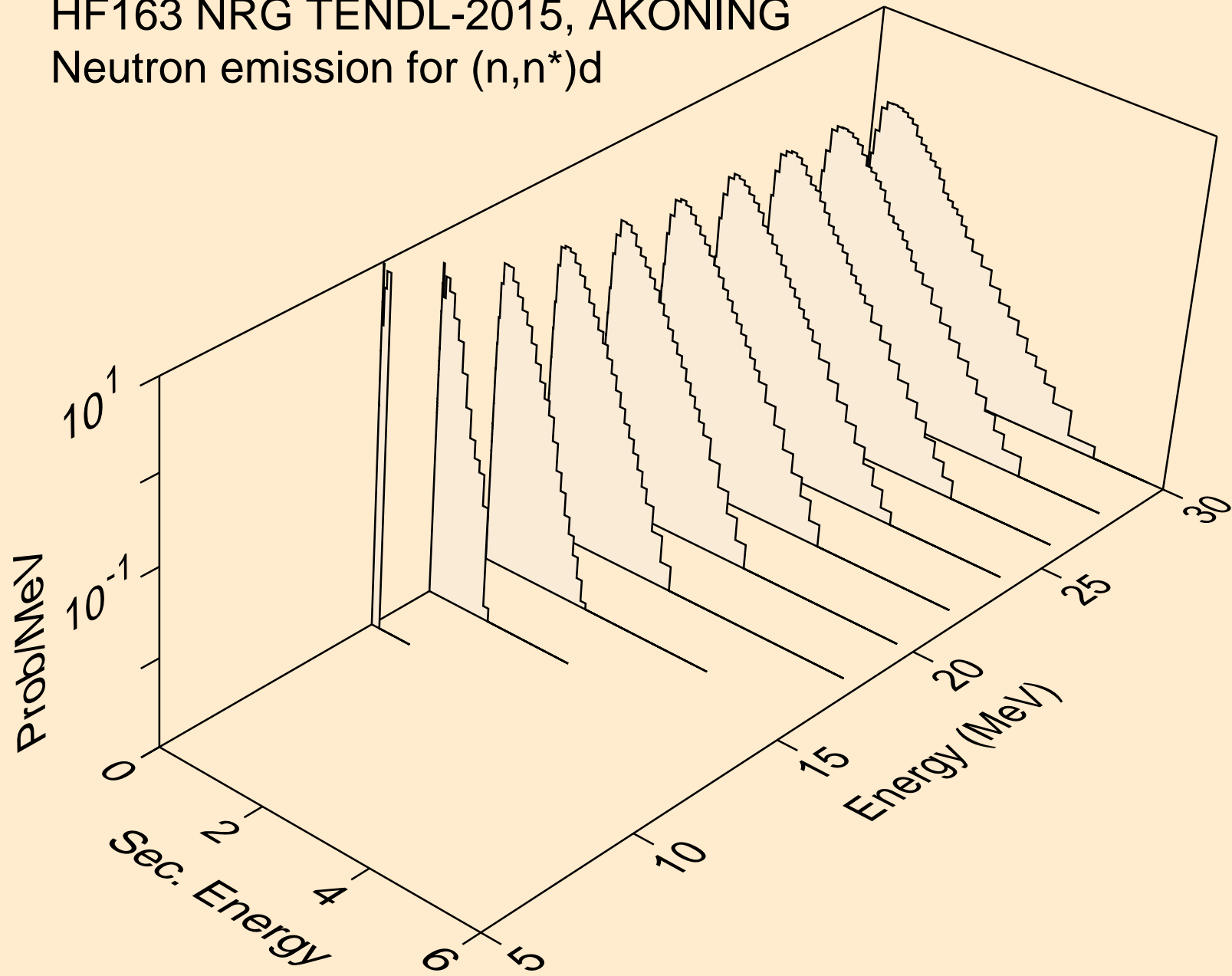




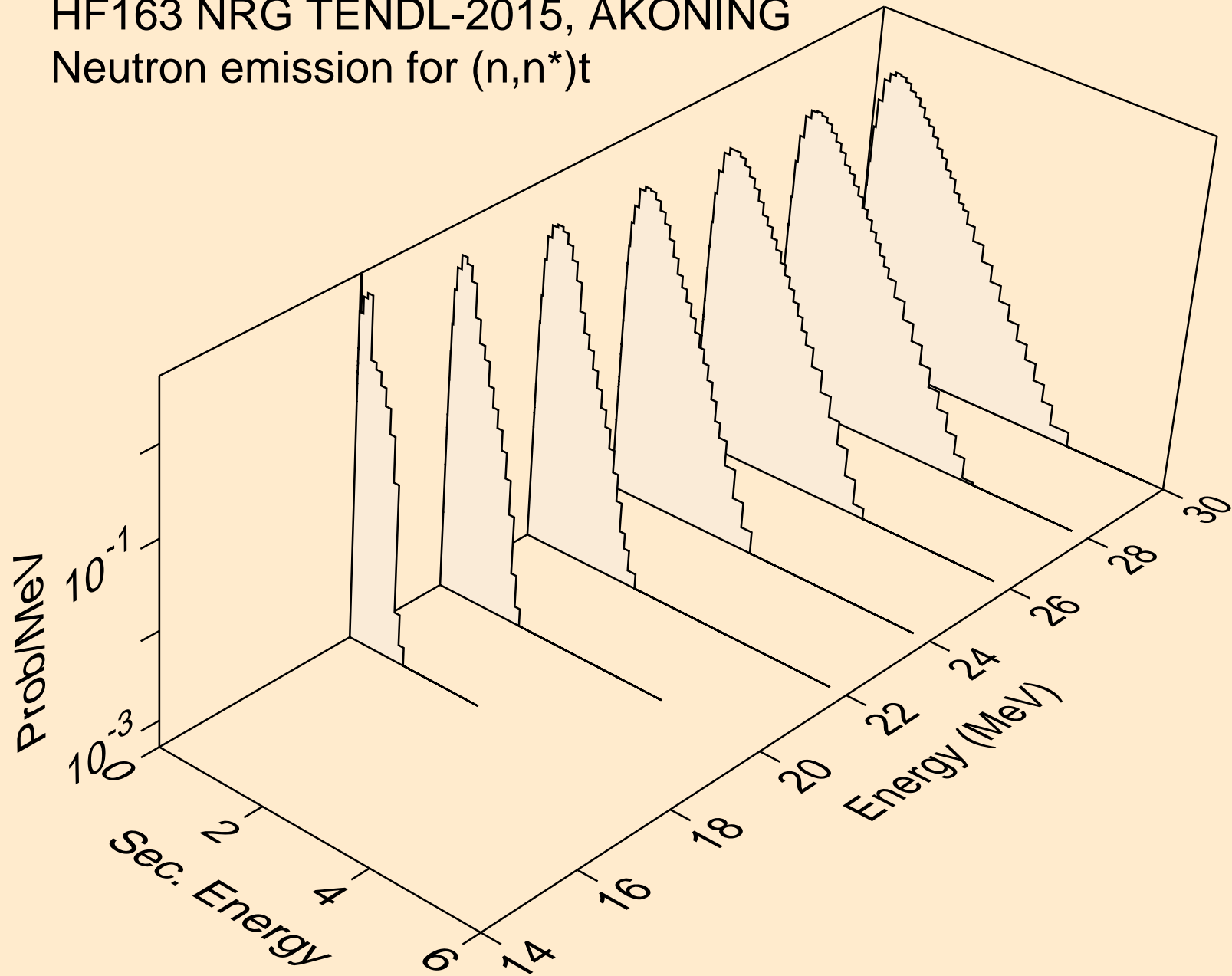
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,2n)2a



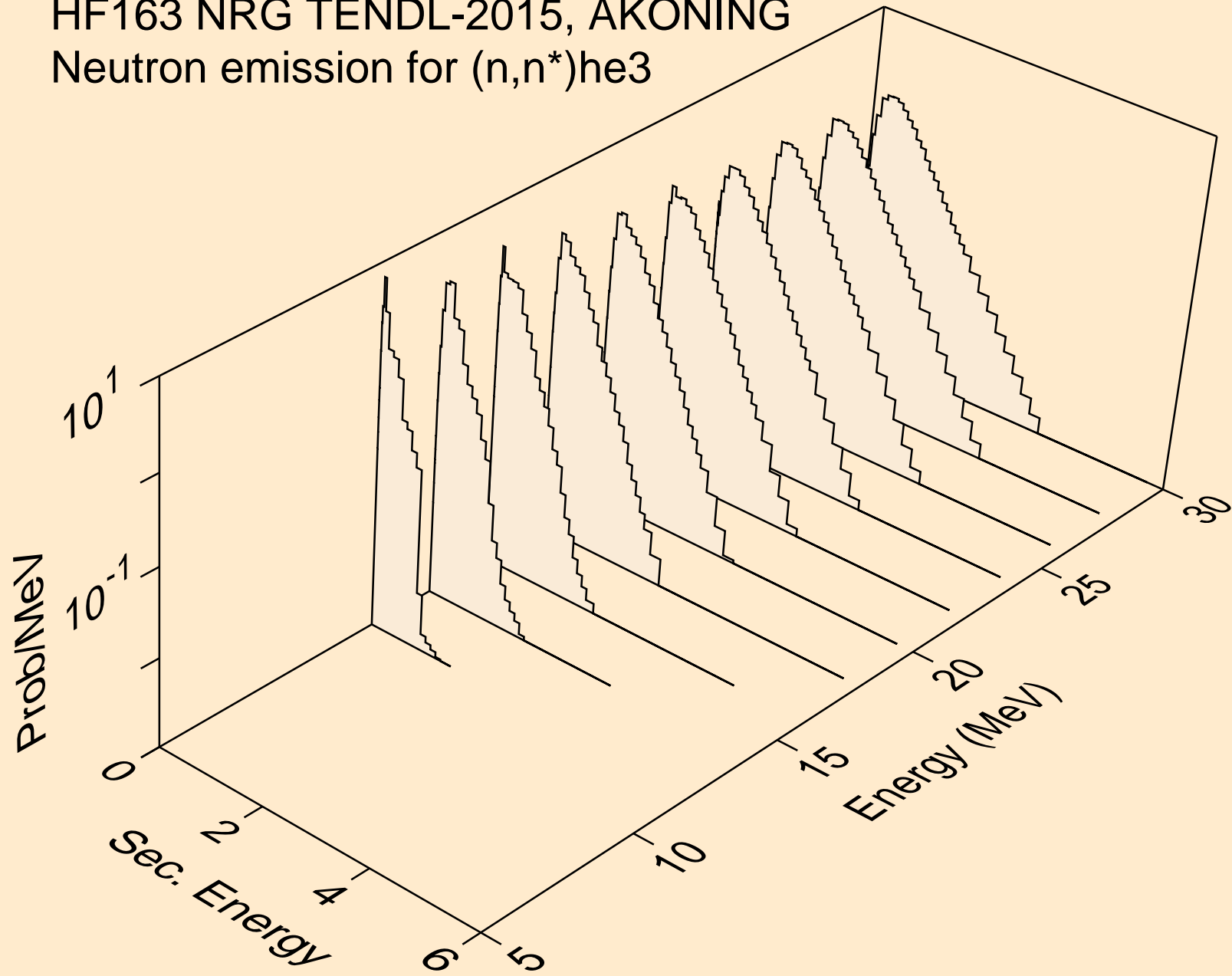
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)d



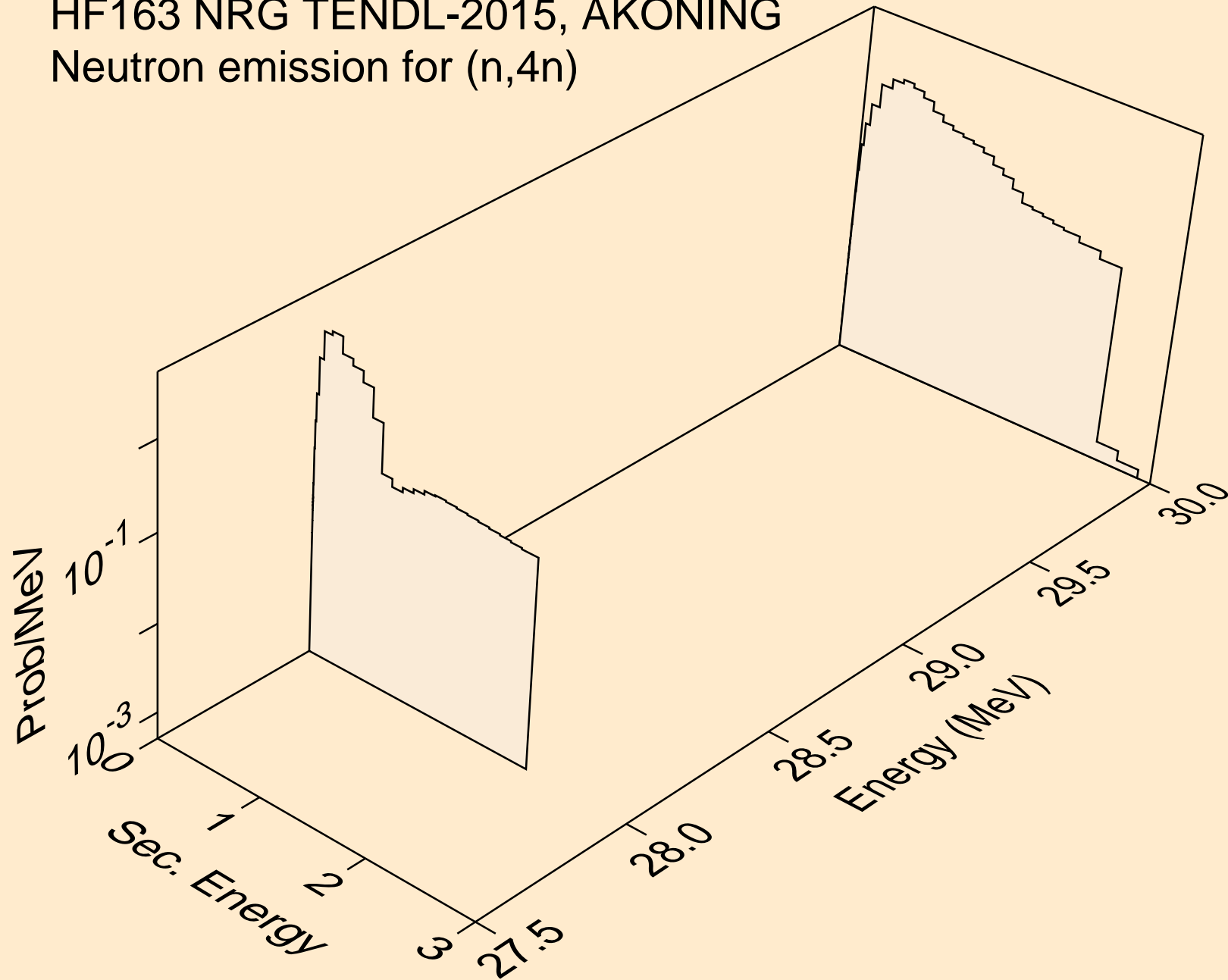
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)t



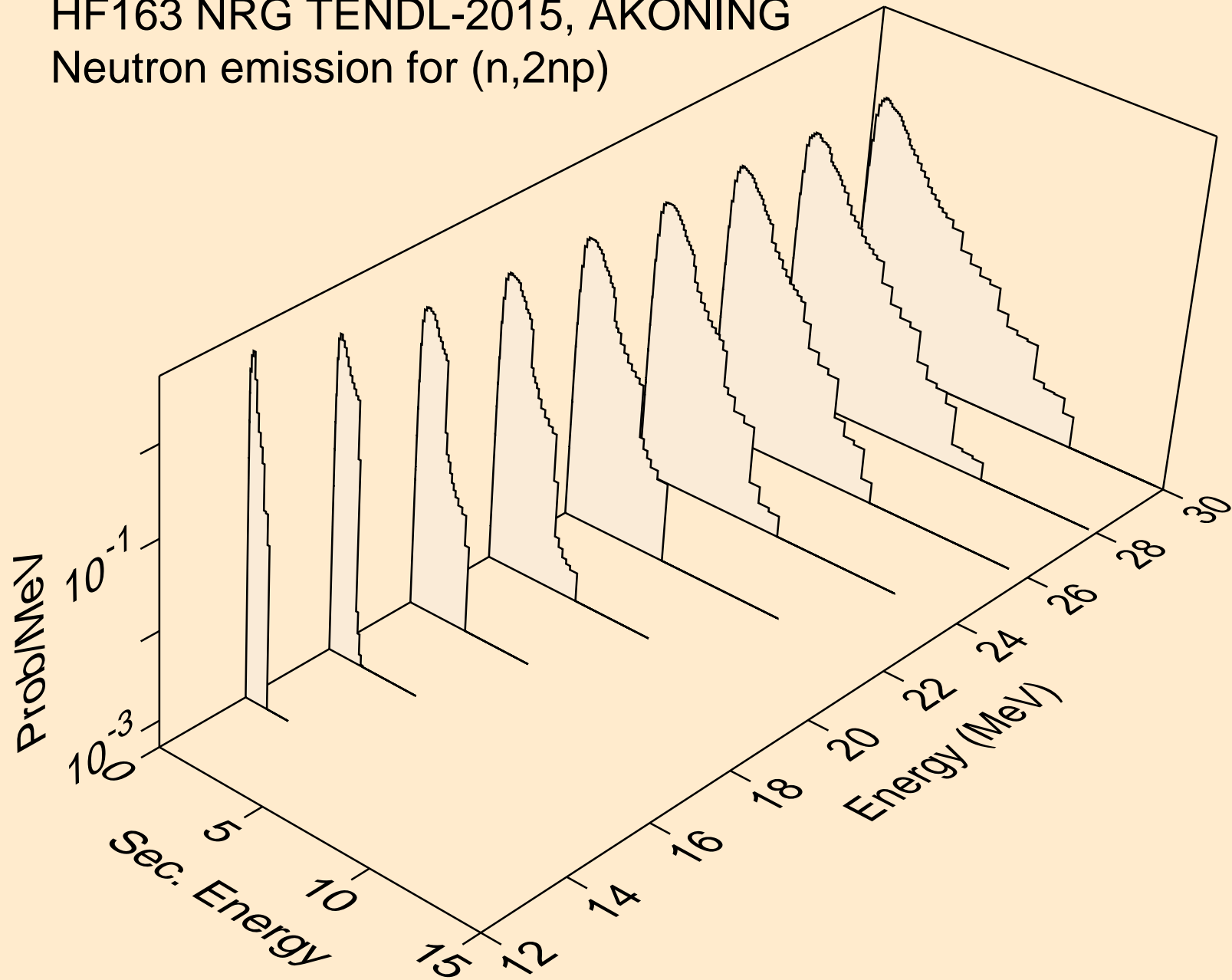
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*)he3



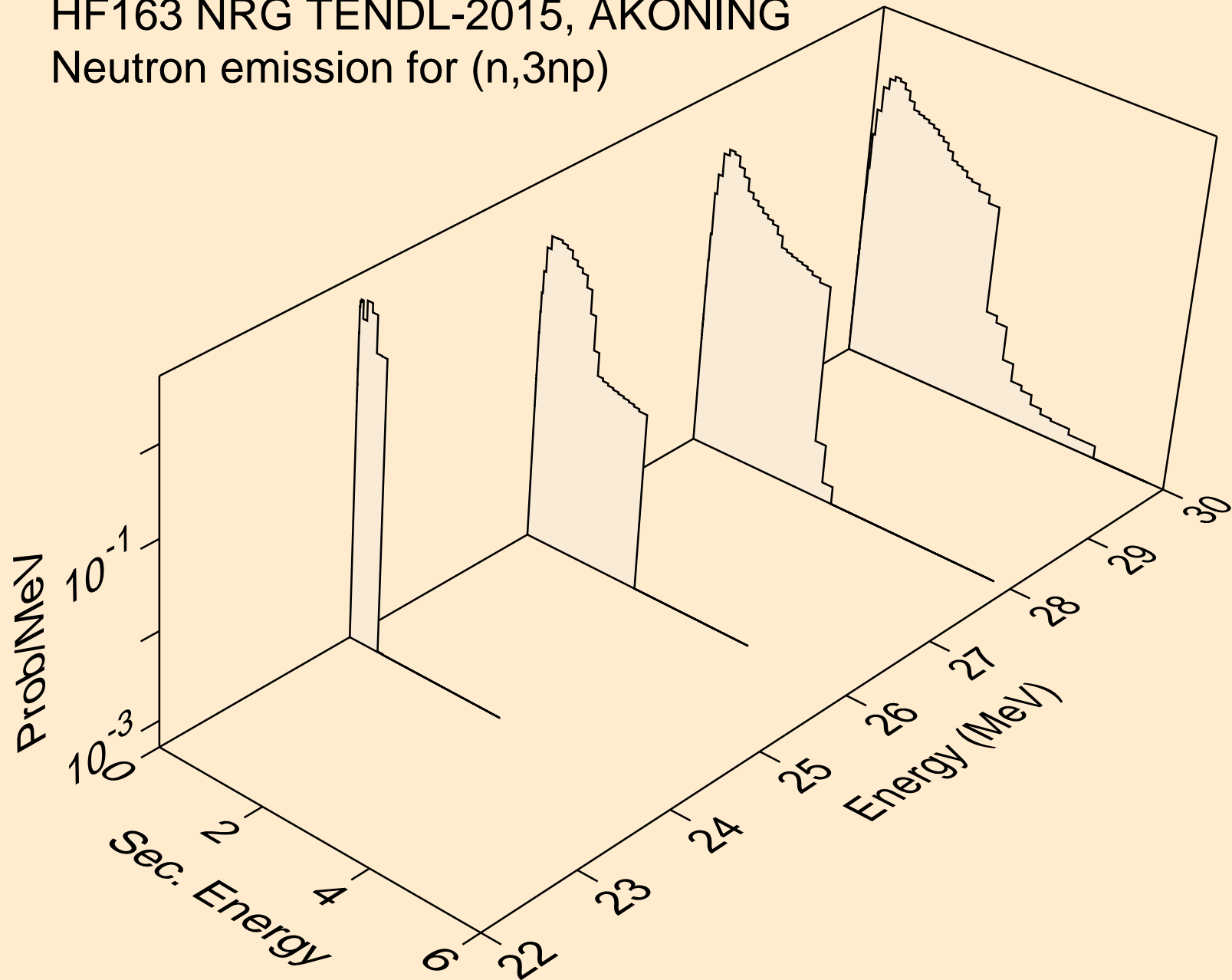
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,4n)



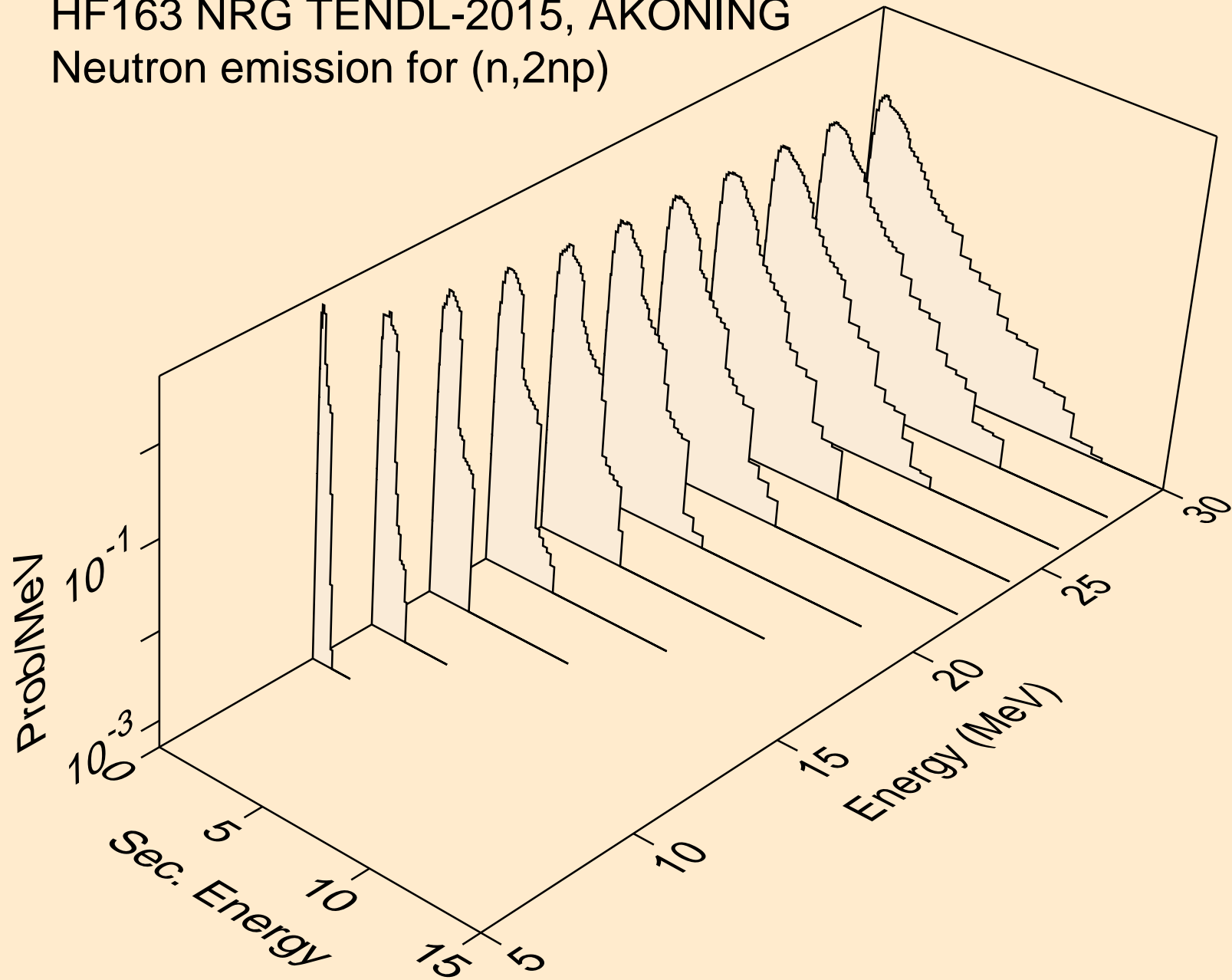
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)



HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,3np)

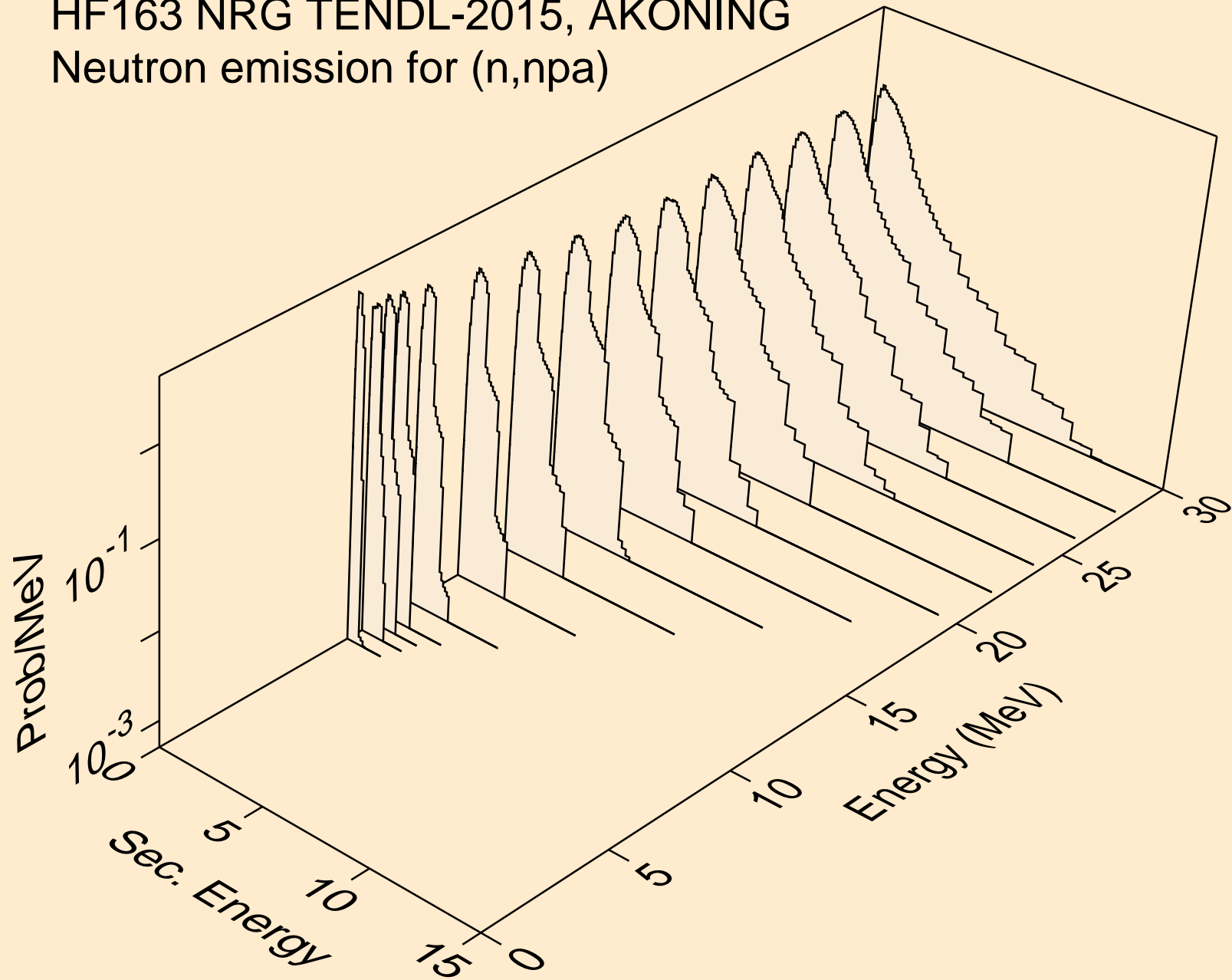


HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,2np)

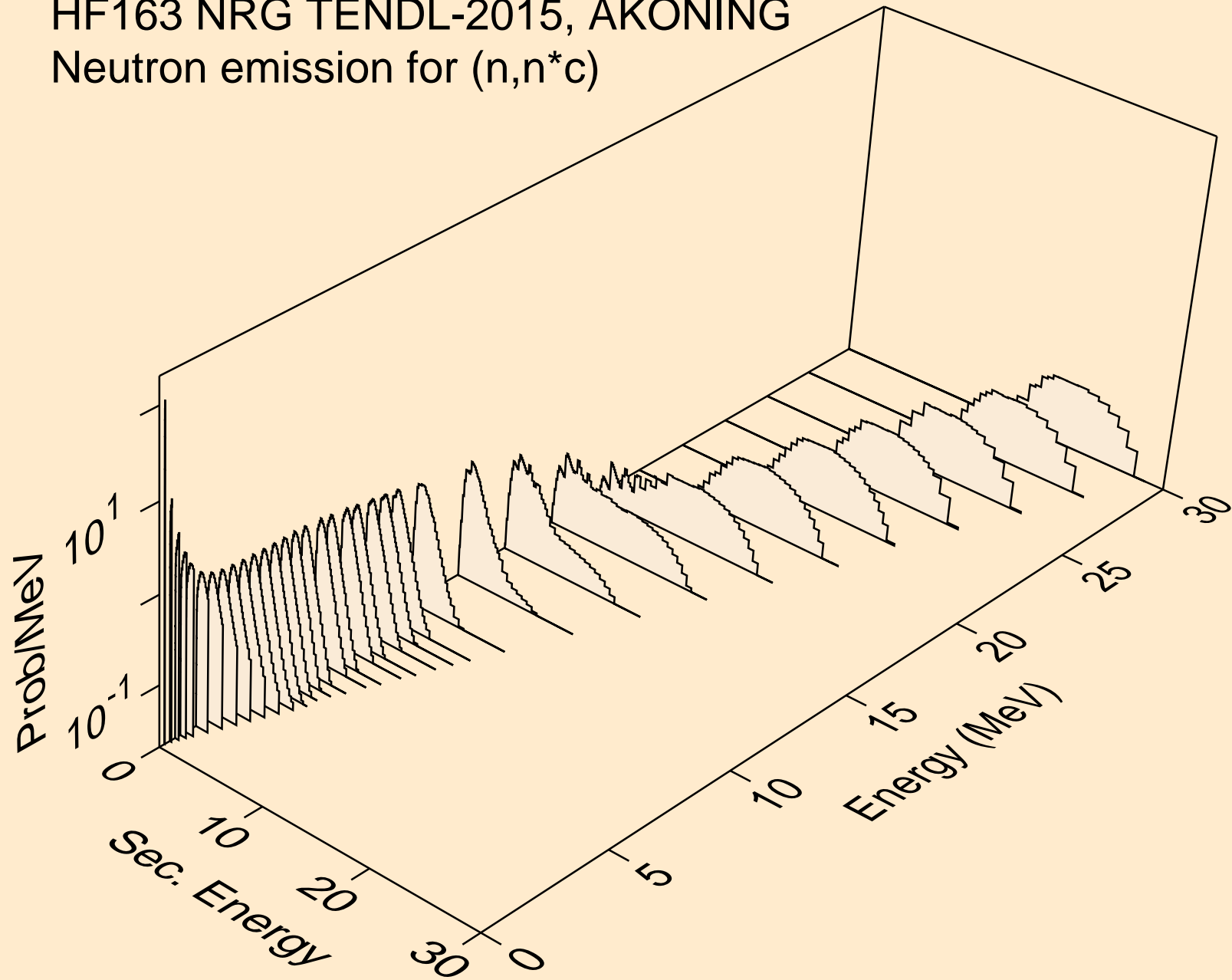




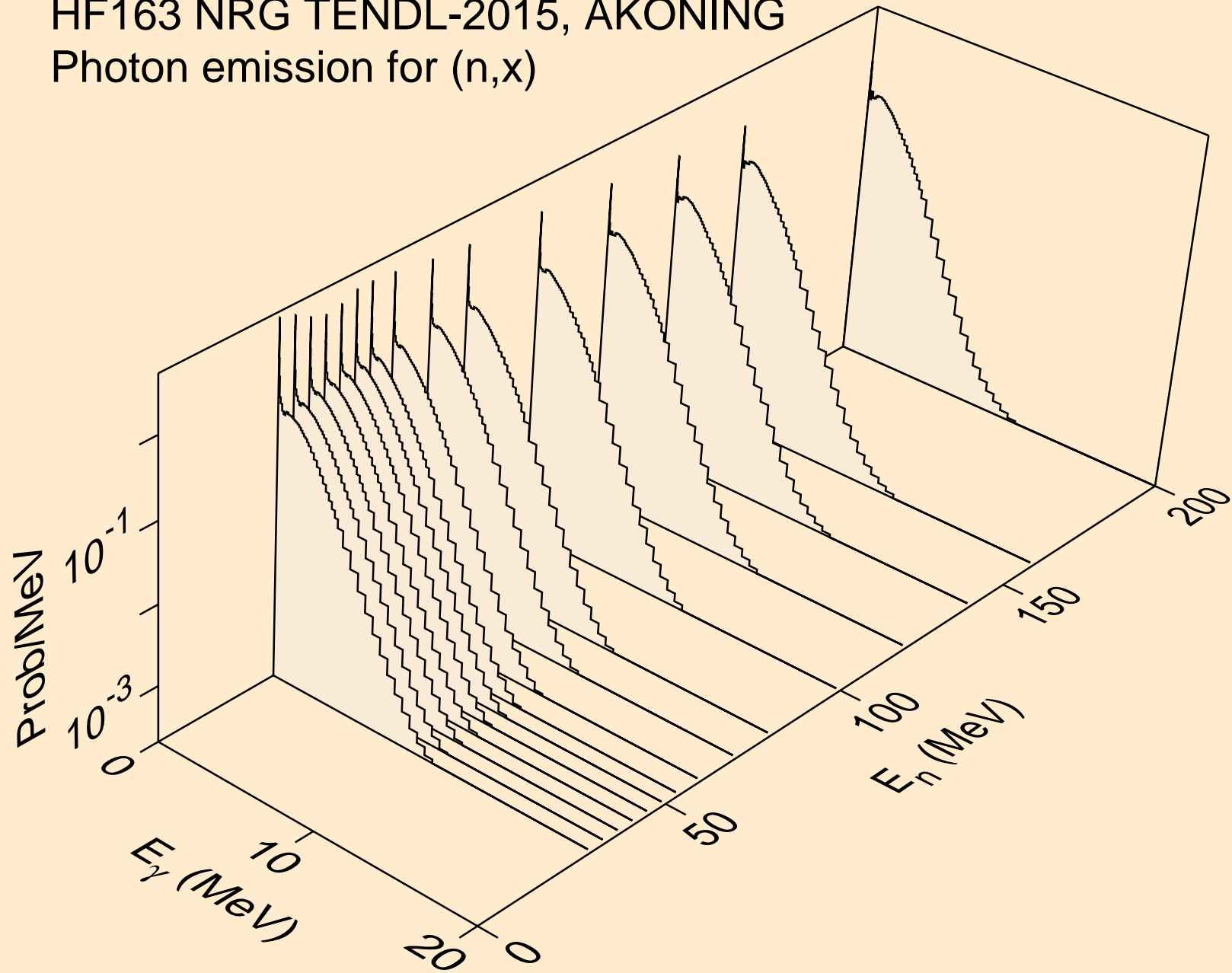
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,npa)



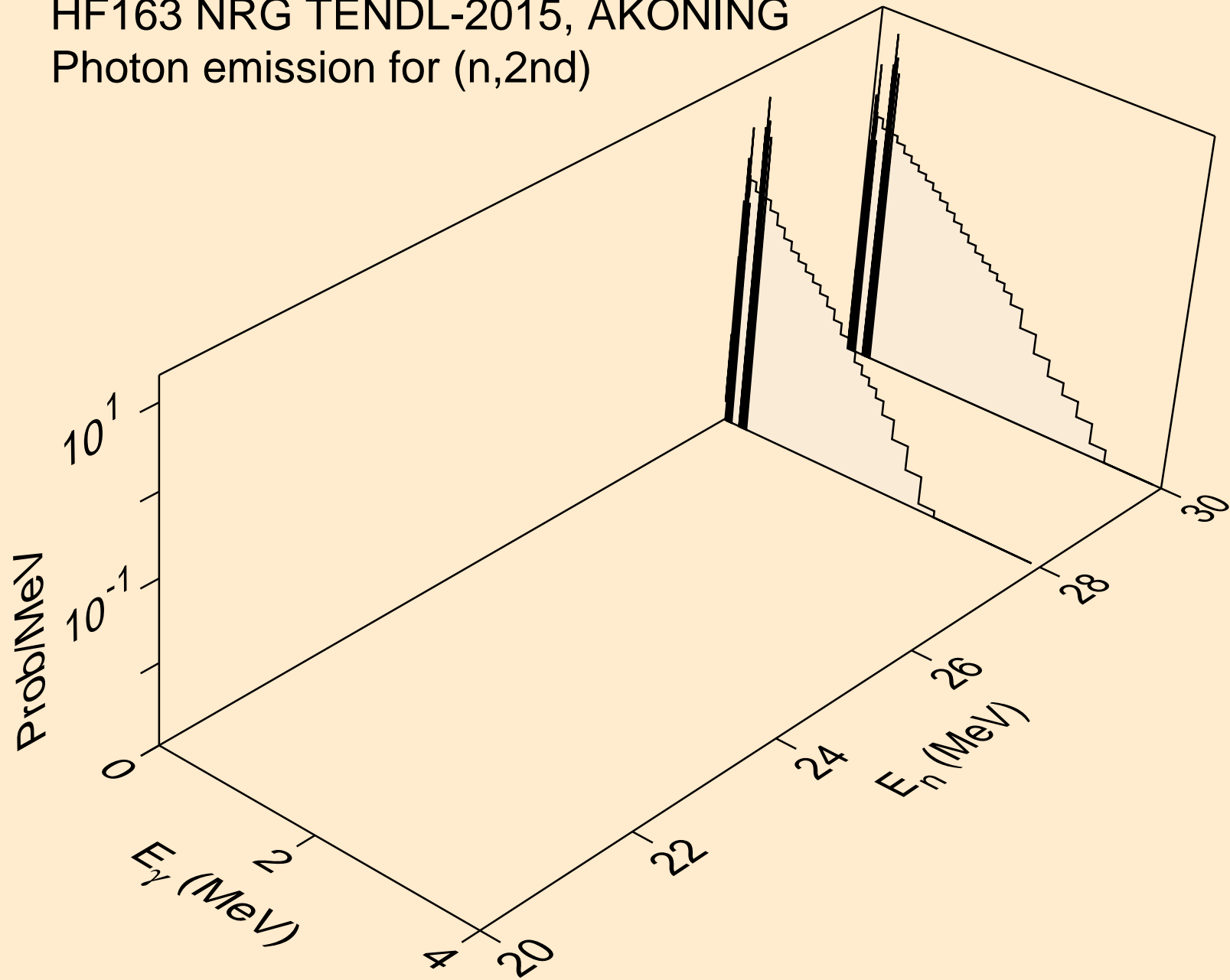
HF163 NRG TENDL-2015, AKONING  
Neutron emission for (n,n\*c)



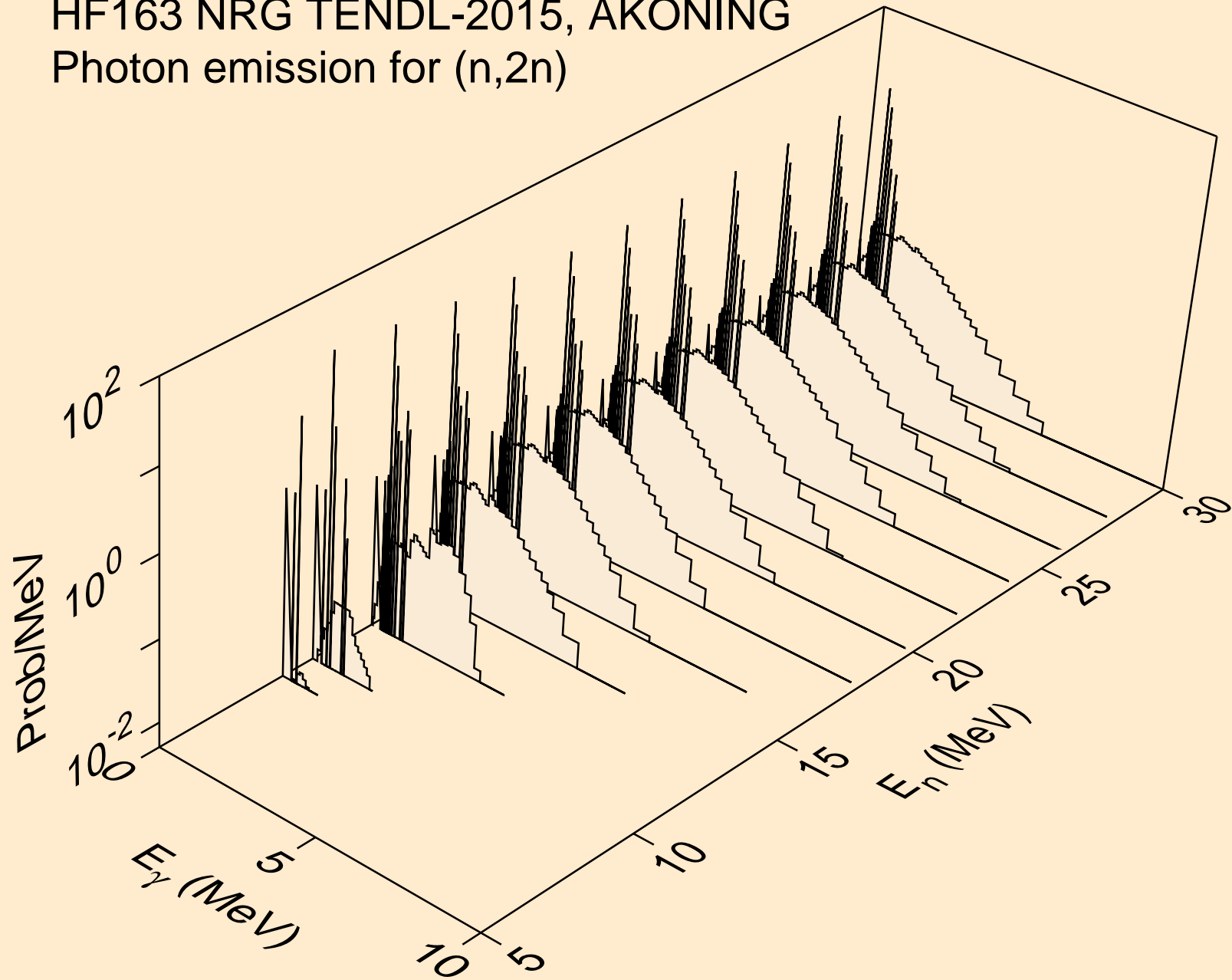
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,x)



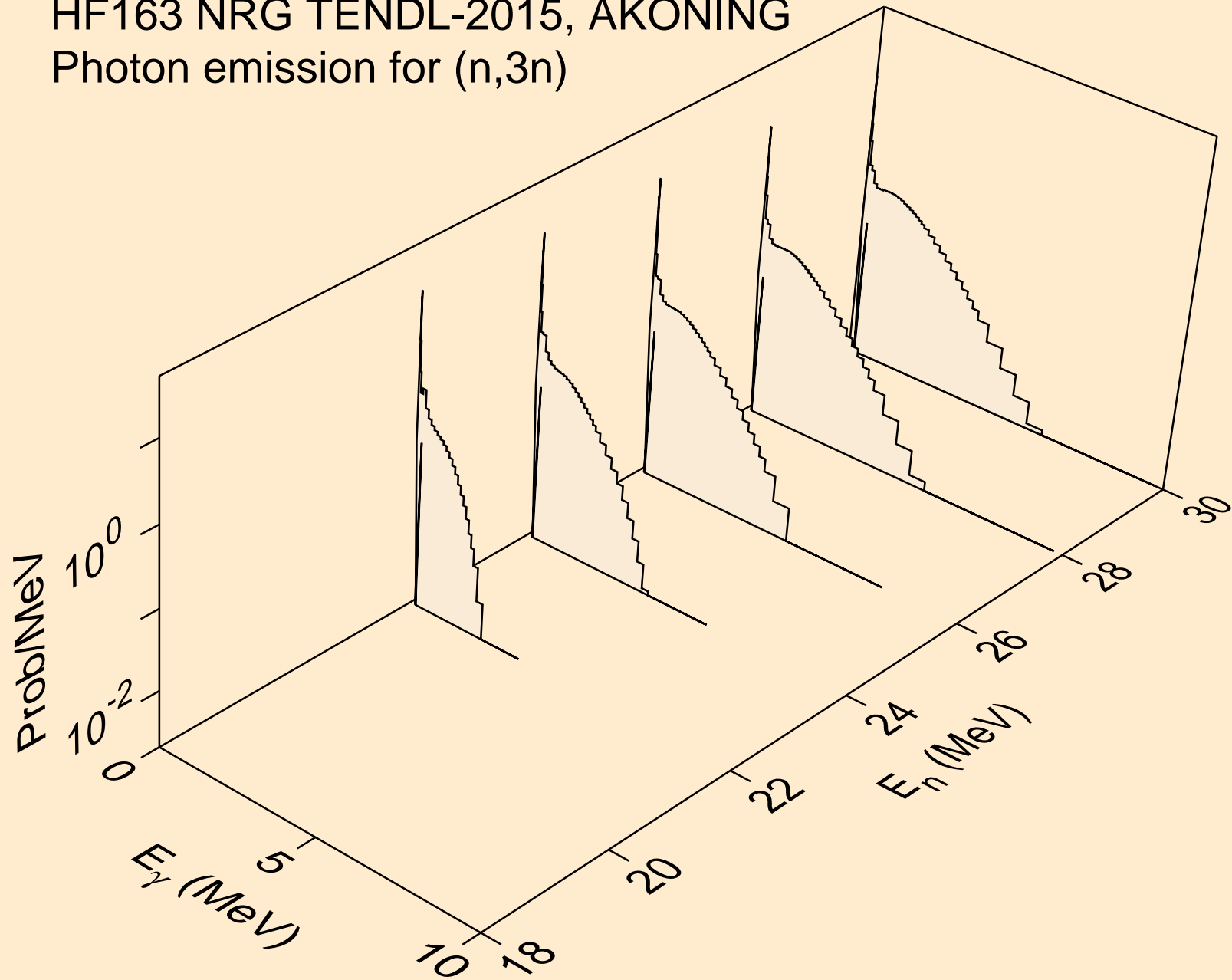
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,2nd)



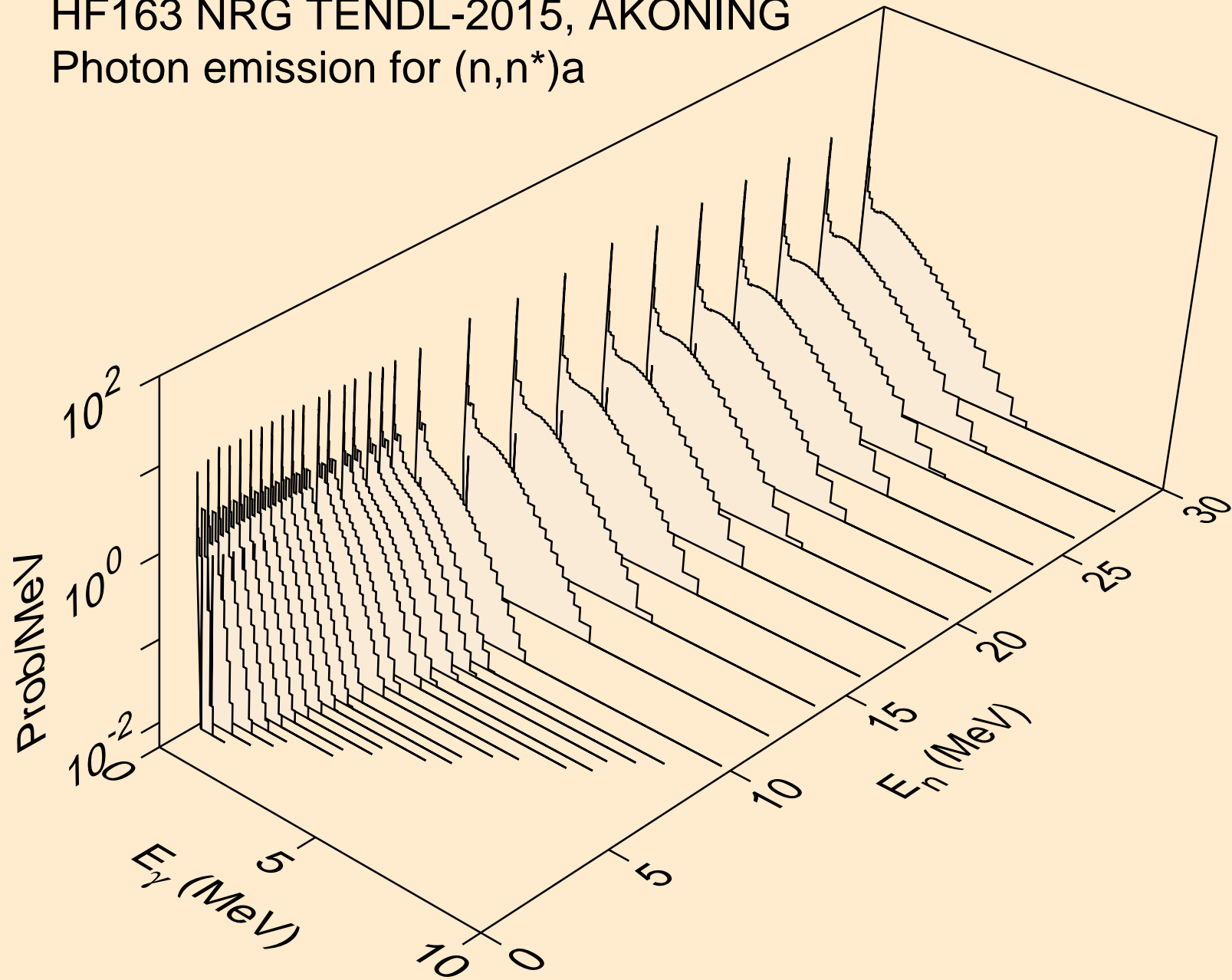
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)



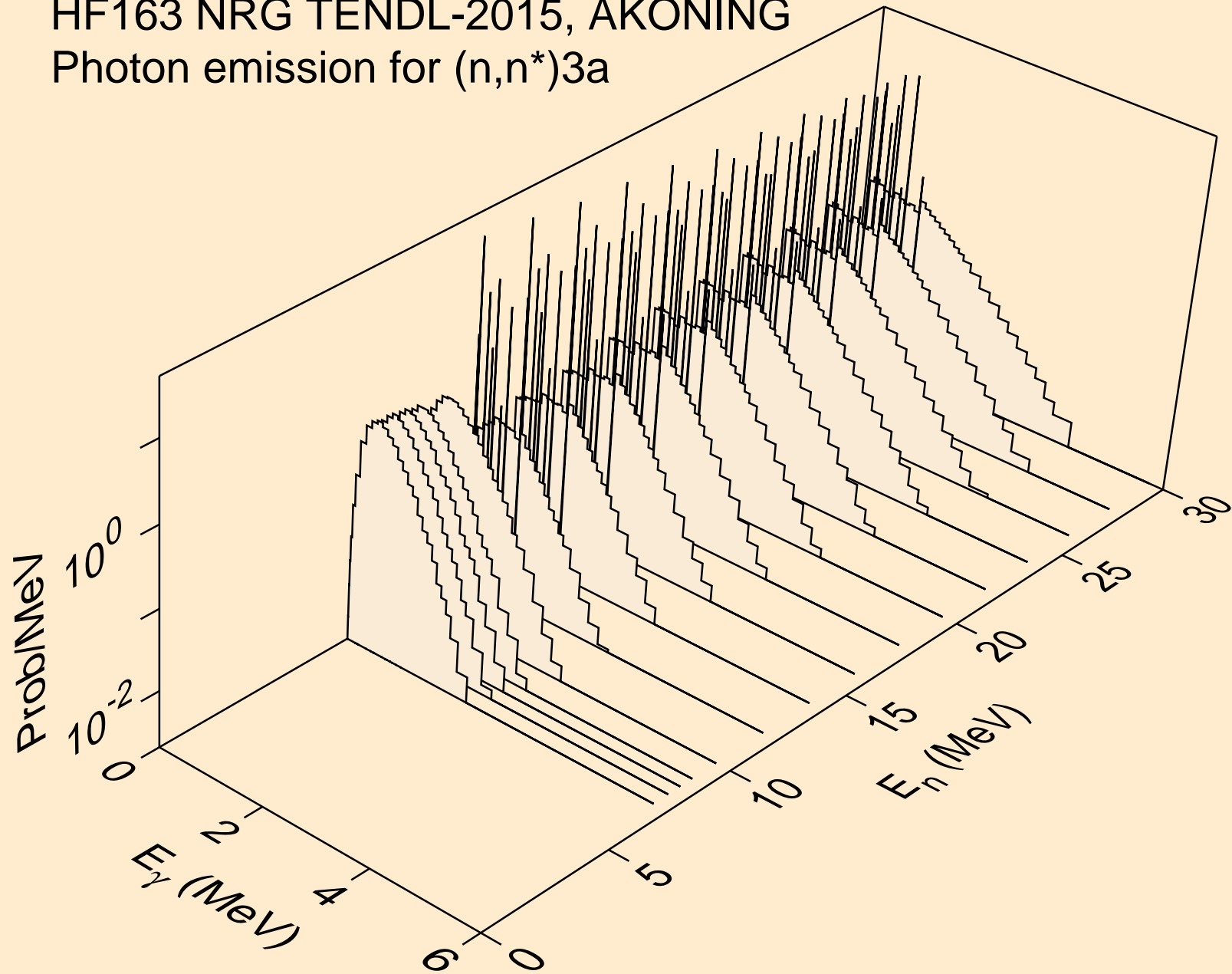
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)



HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)a

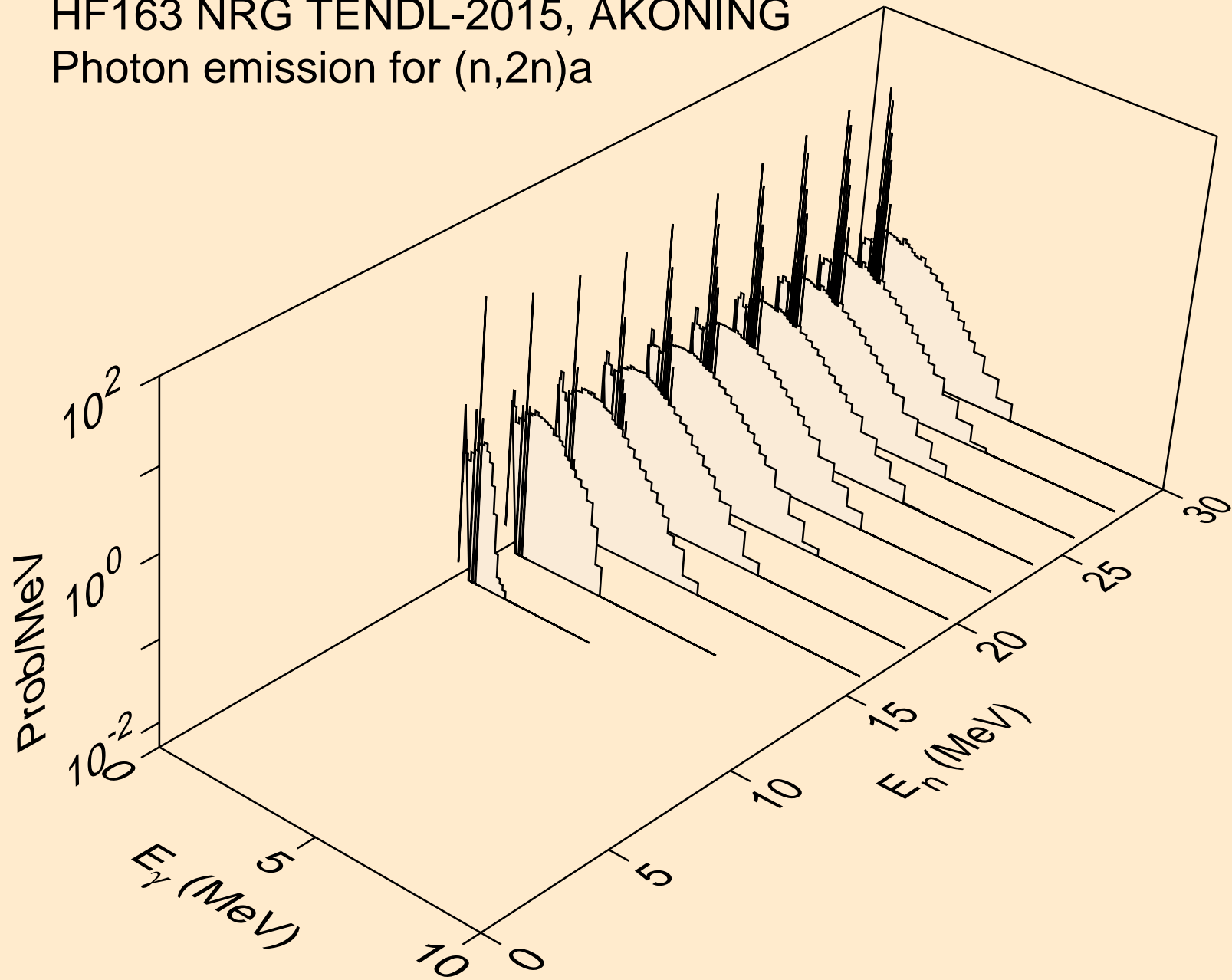


HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)3a

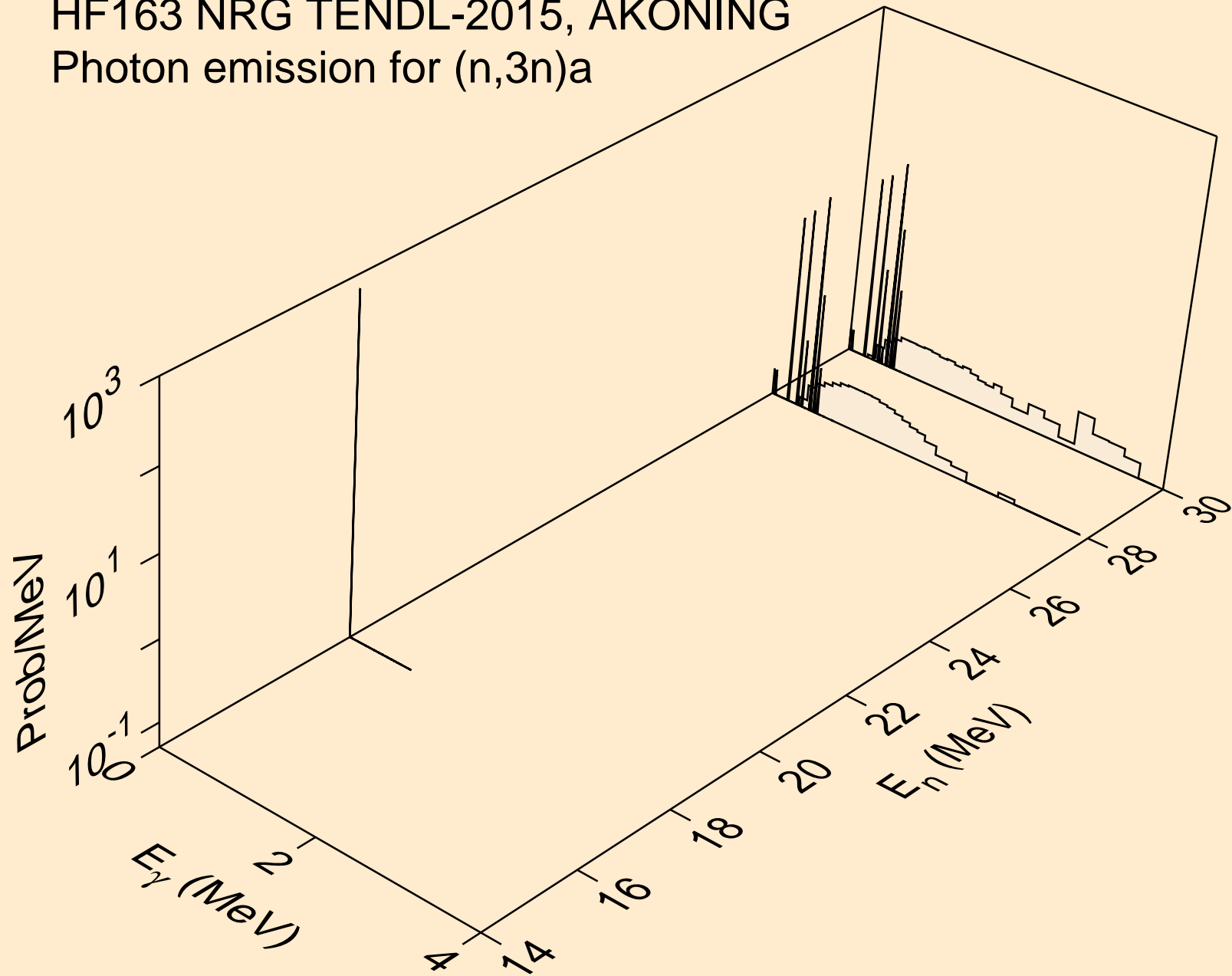




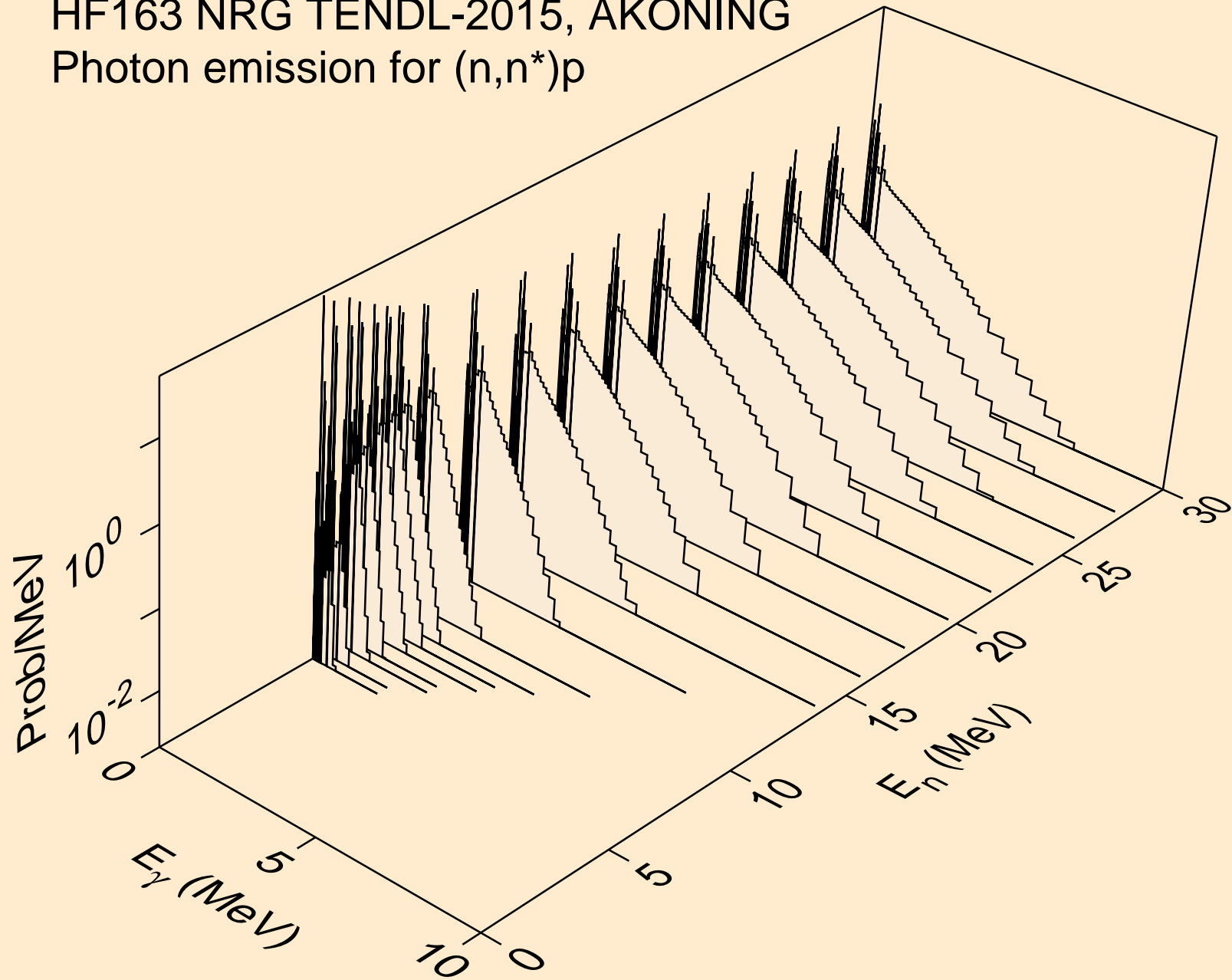
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)a



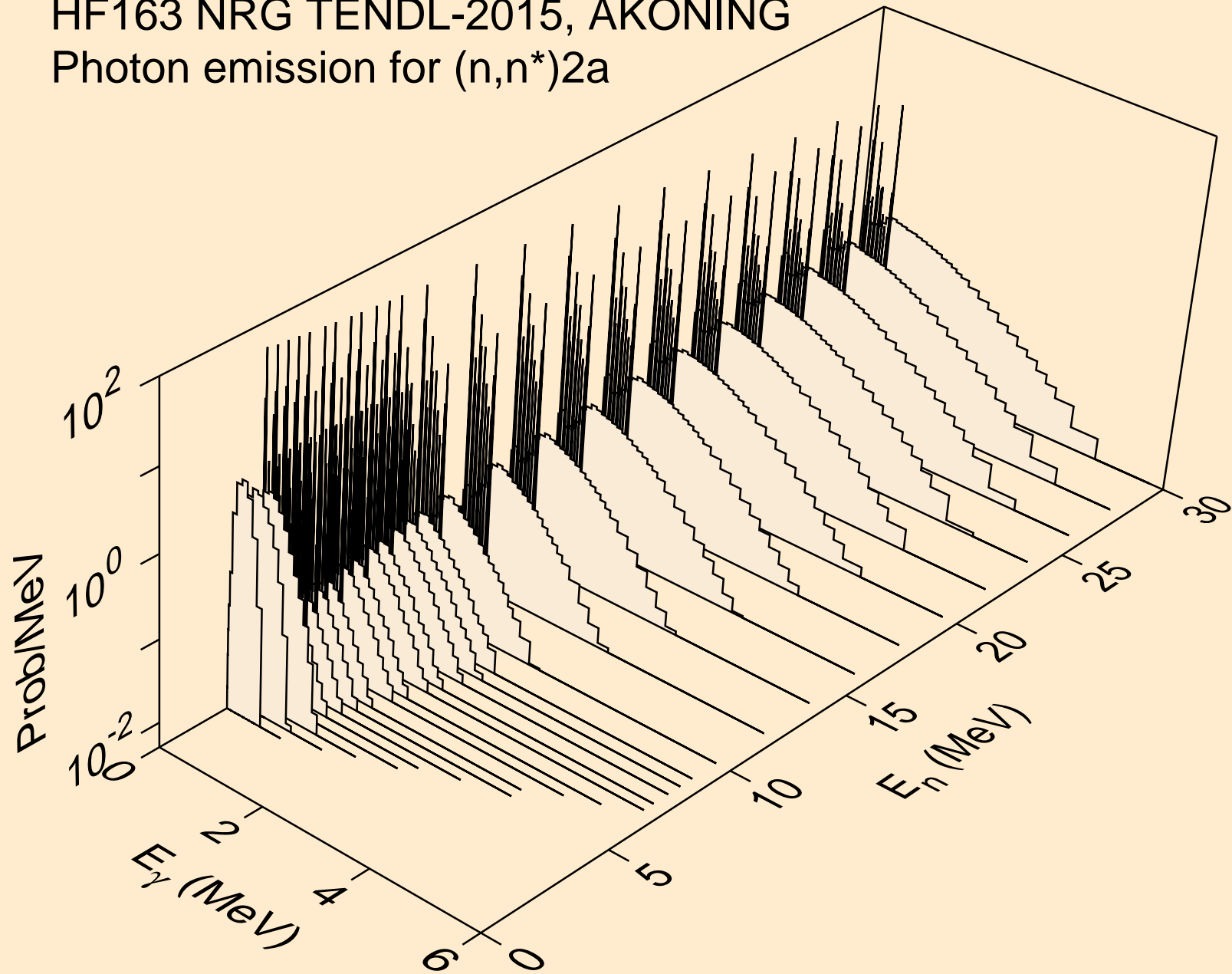
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,3n)a



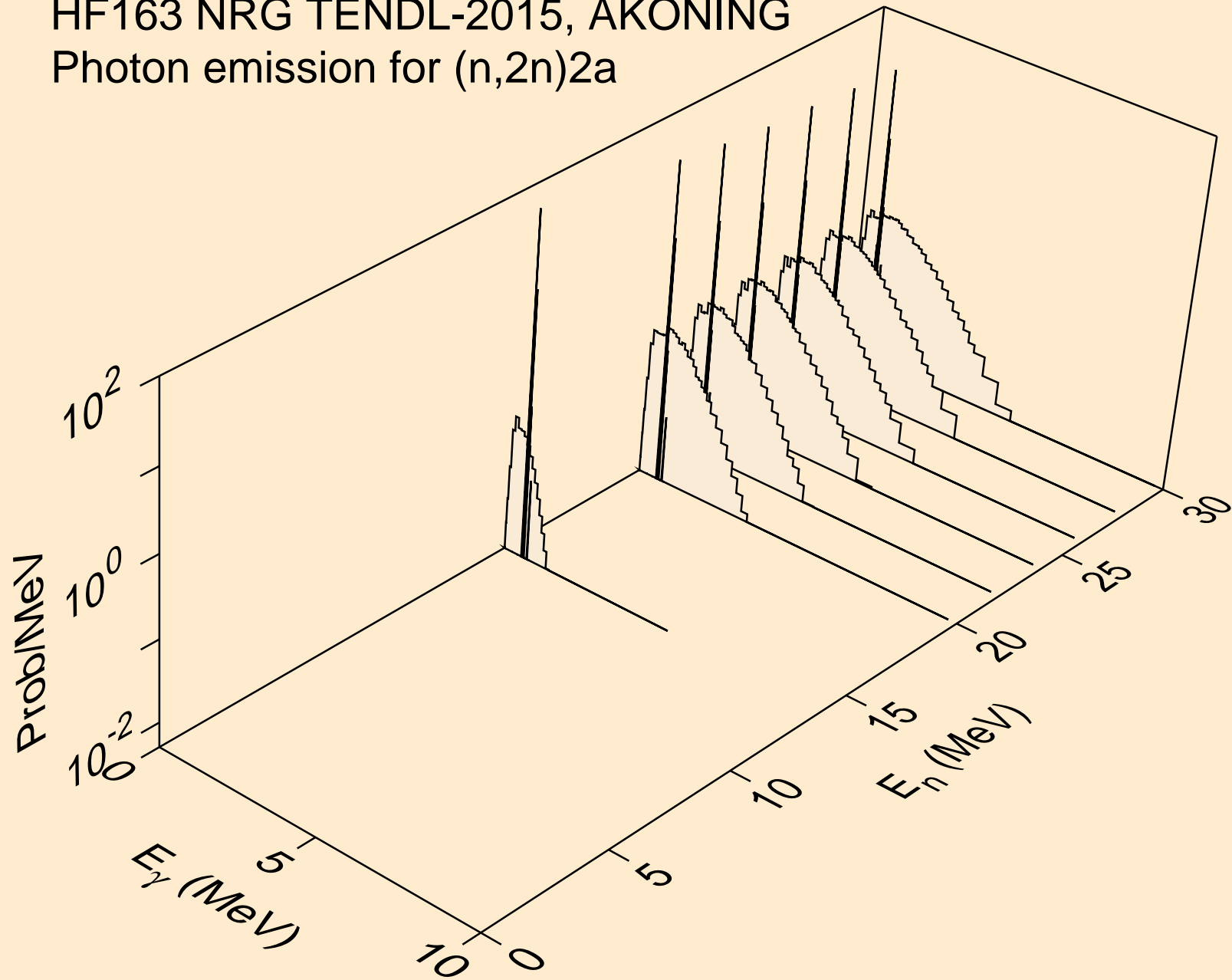
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)p



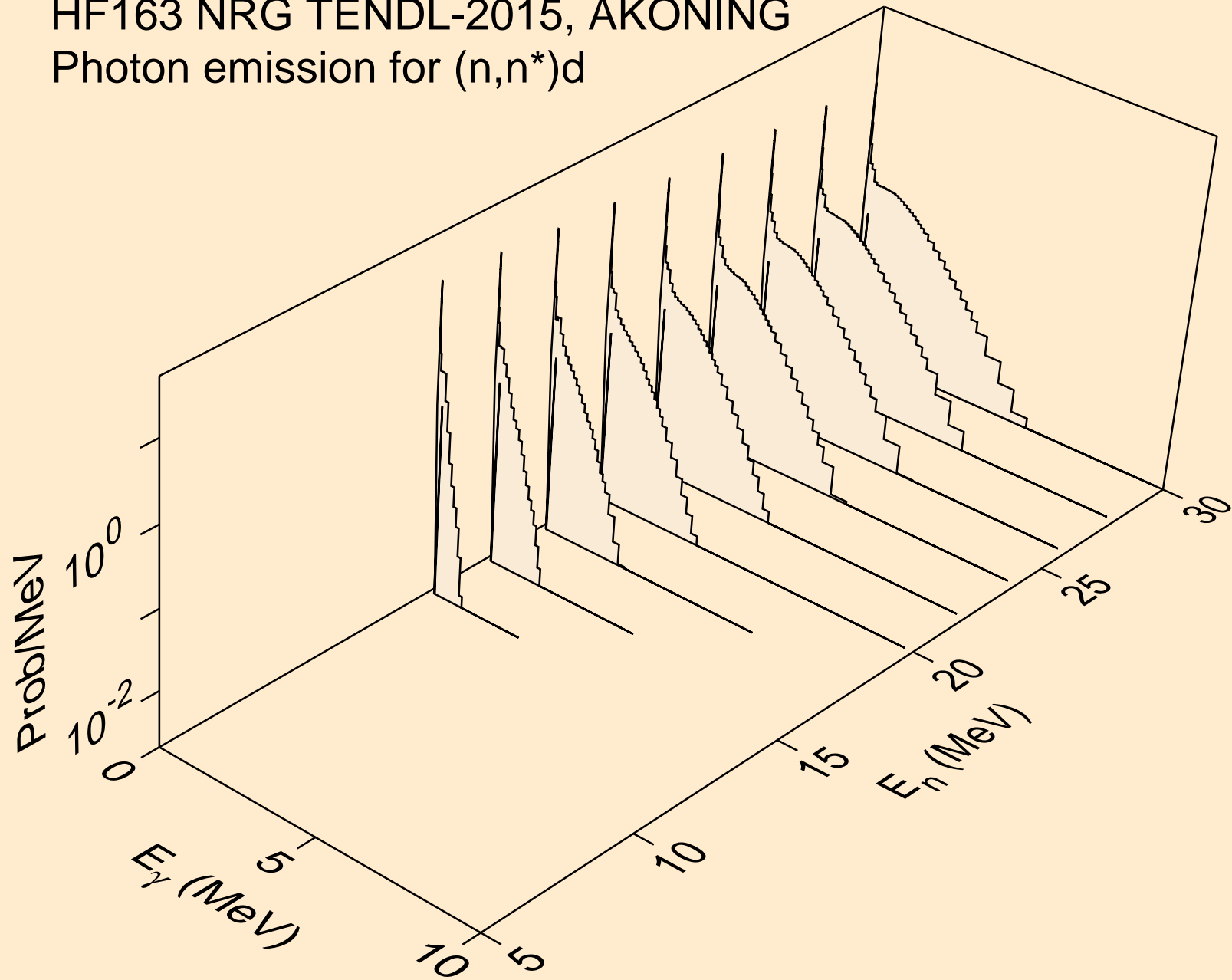
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)2a



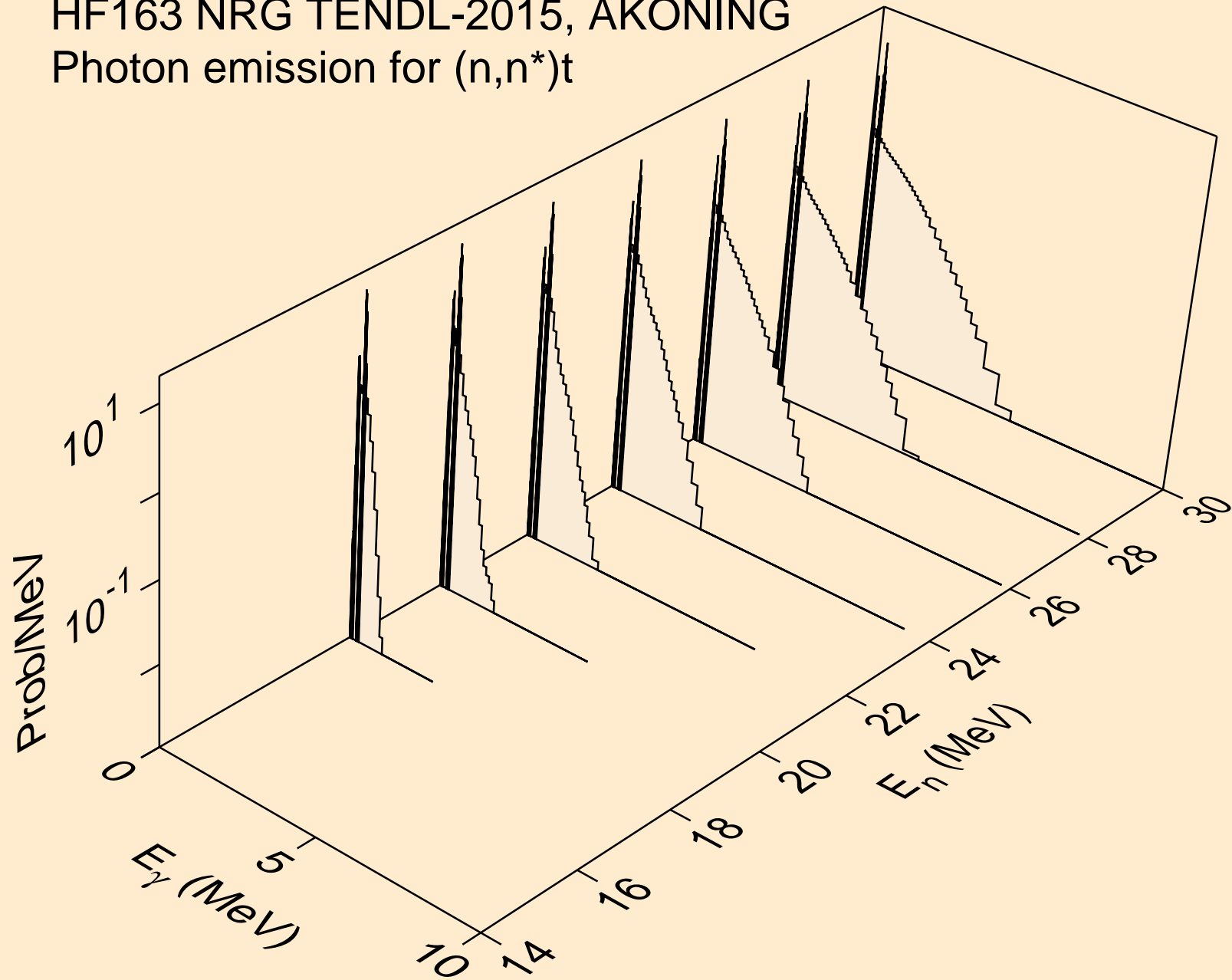
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,2n)2a



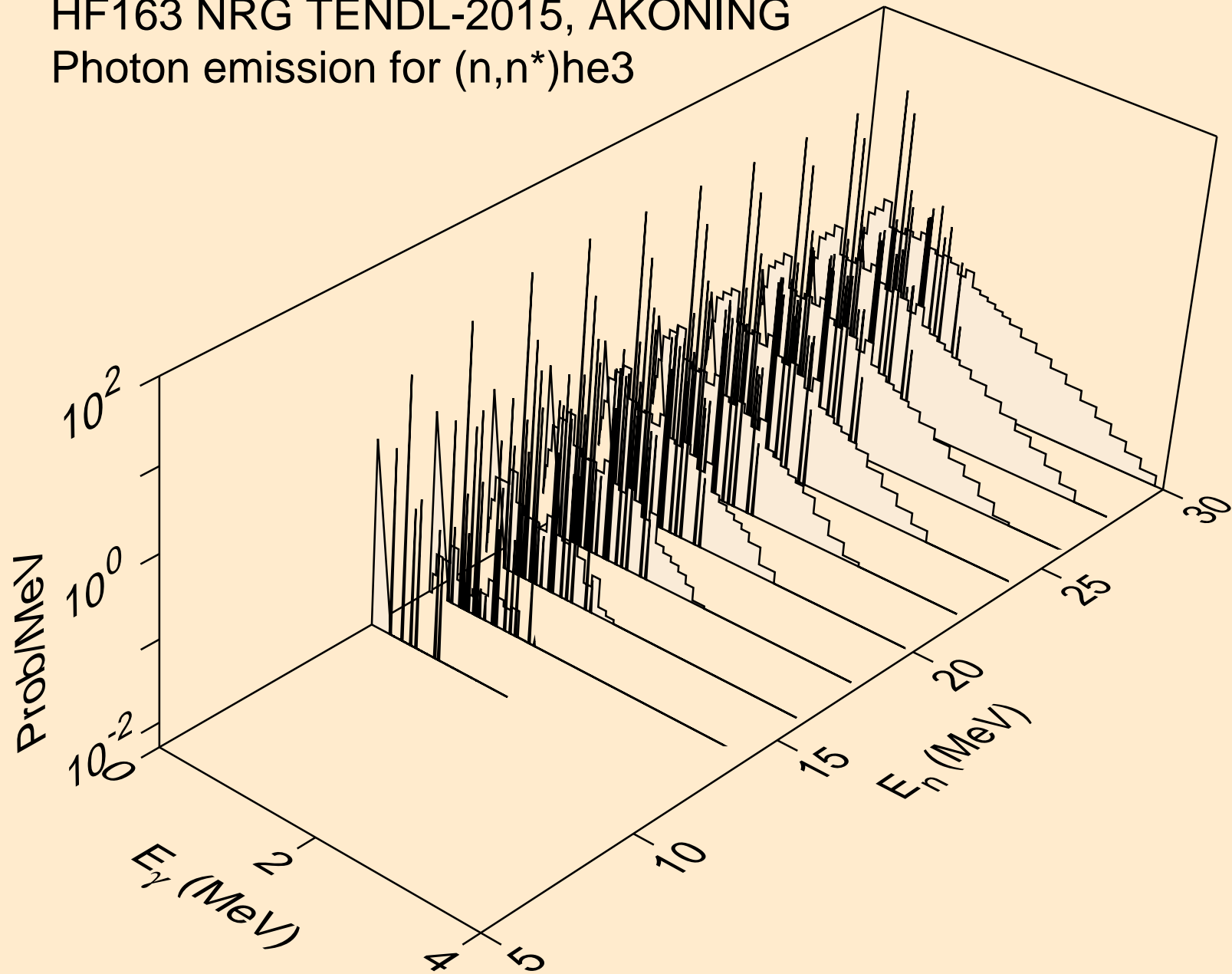
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)d



HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)t

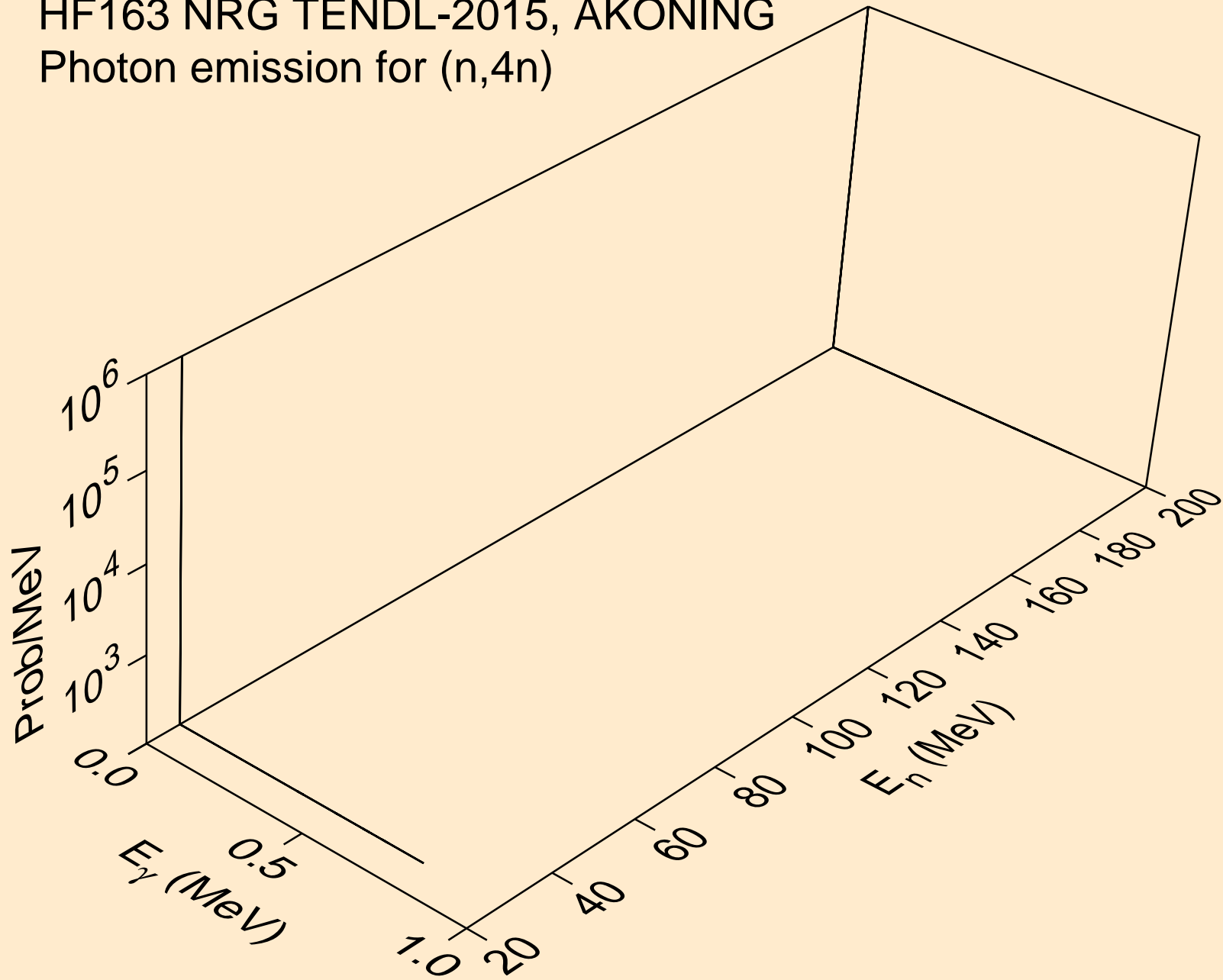


HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*)he3

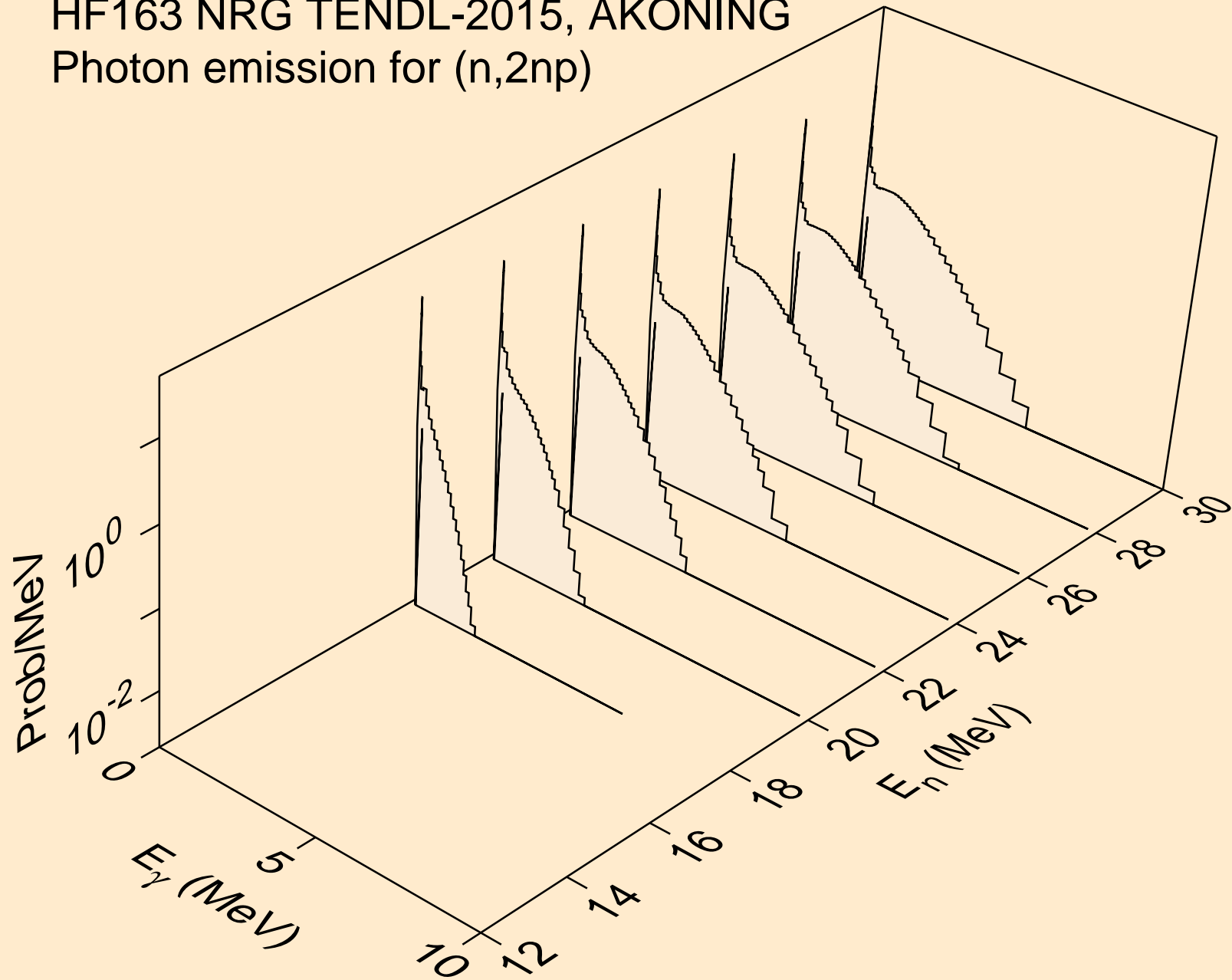




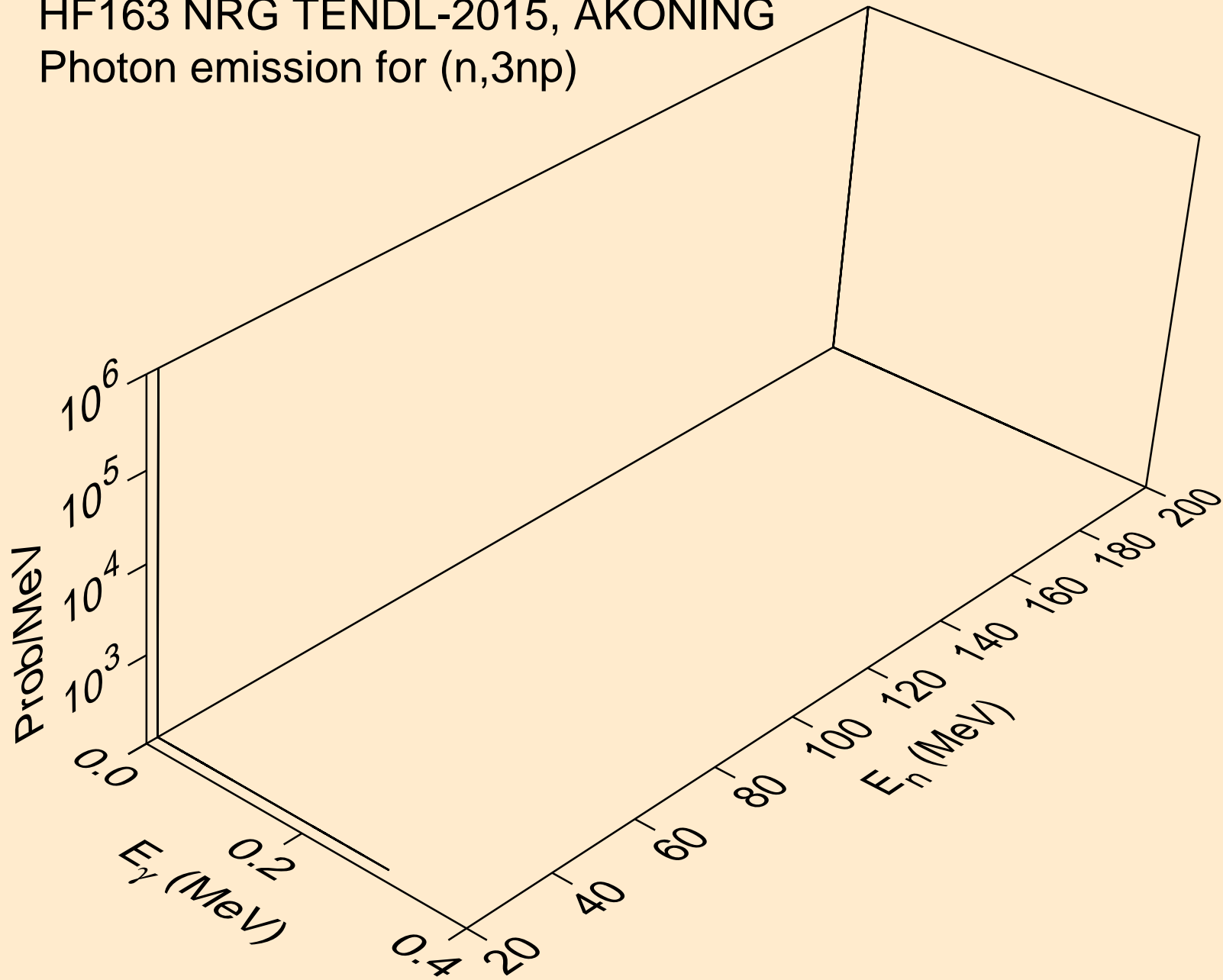
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,4n)



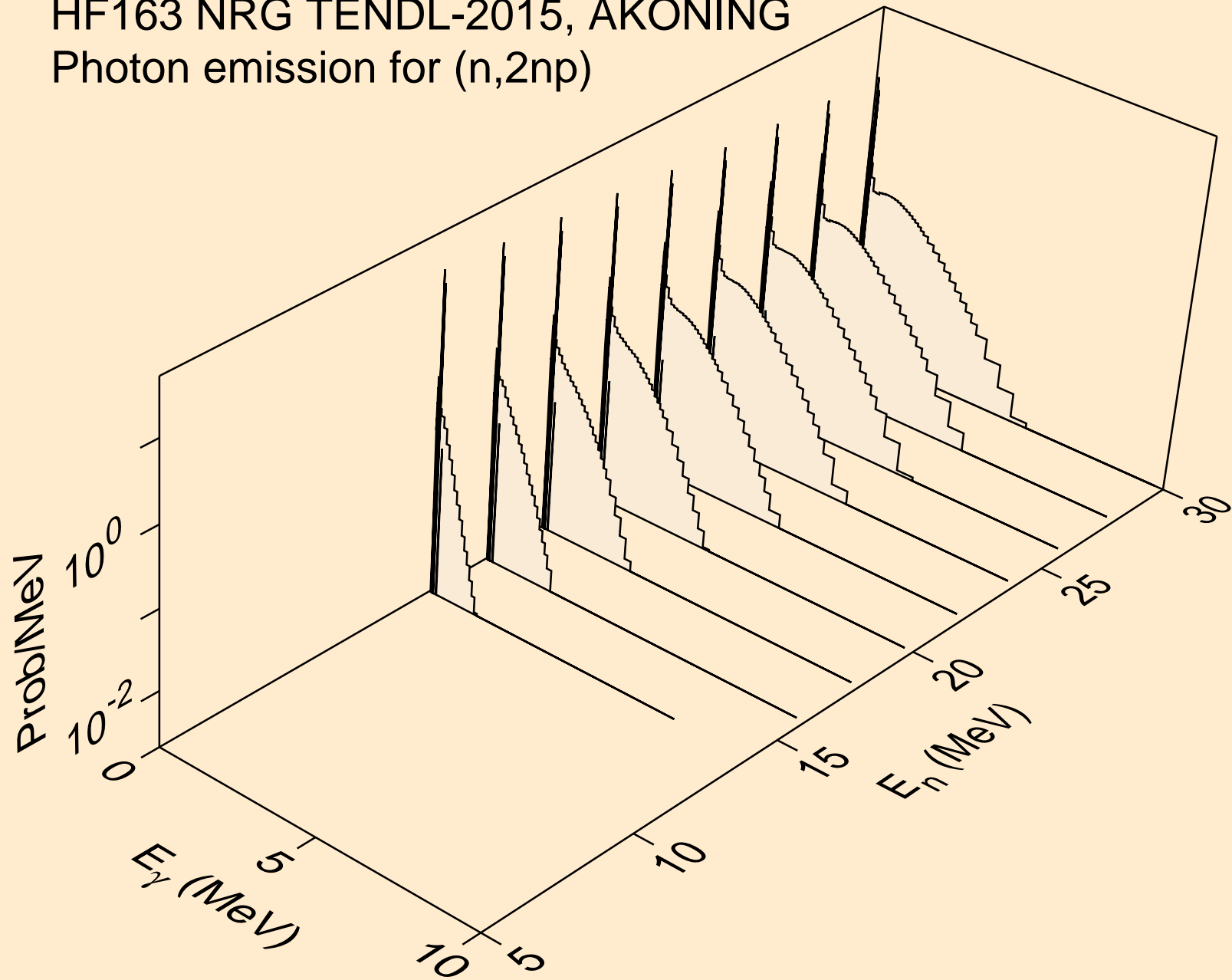
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



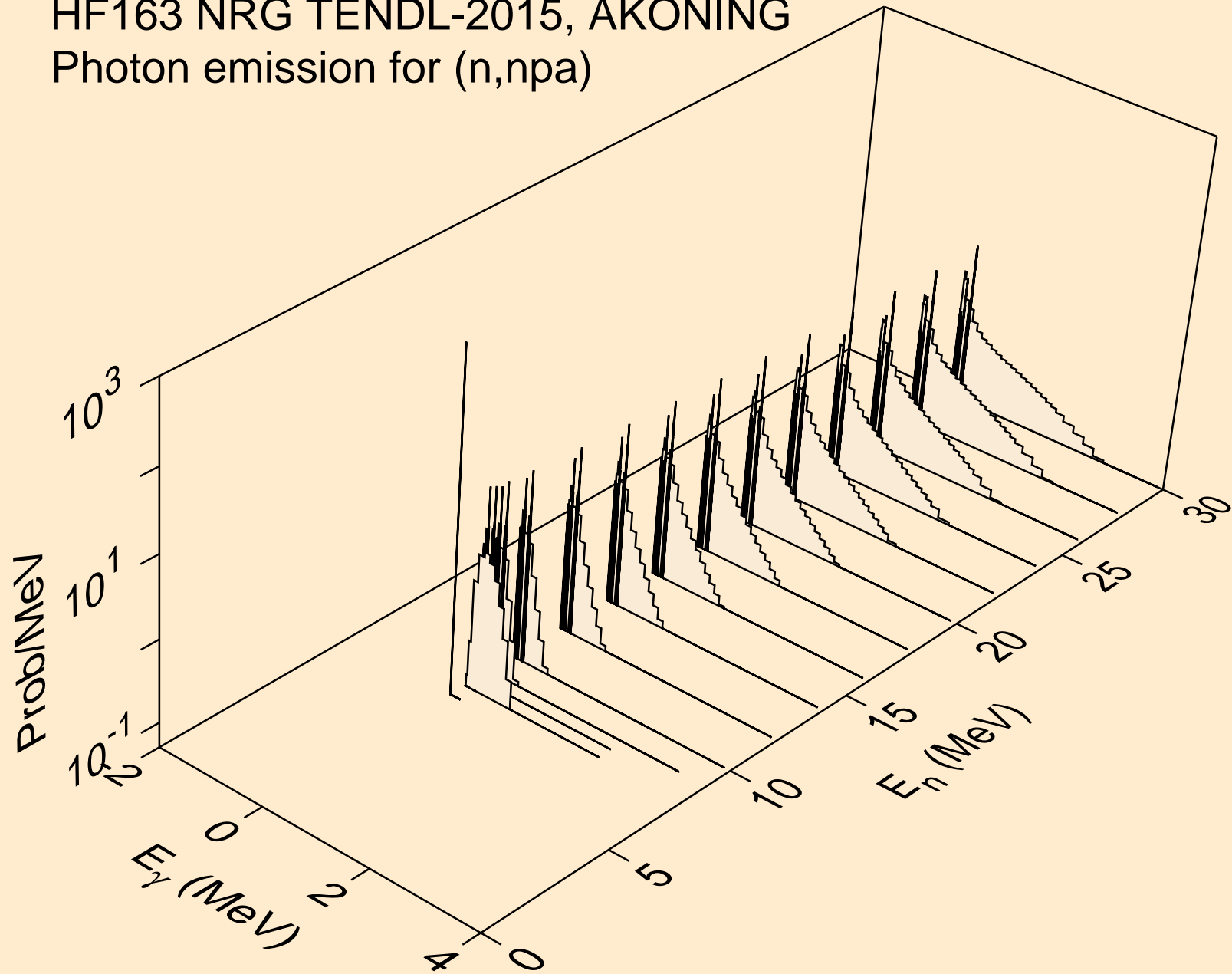
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,3np)



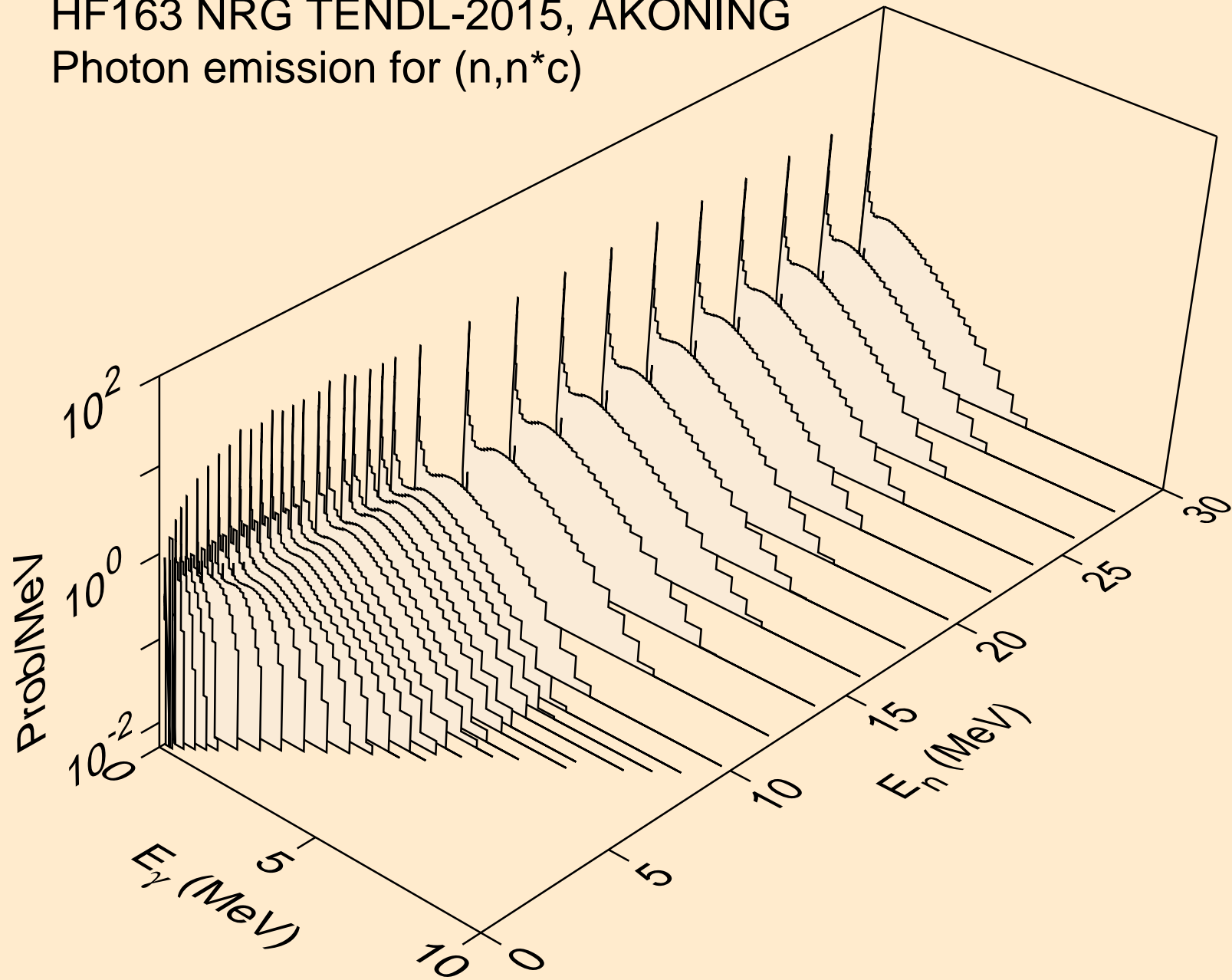
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,2np)



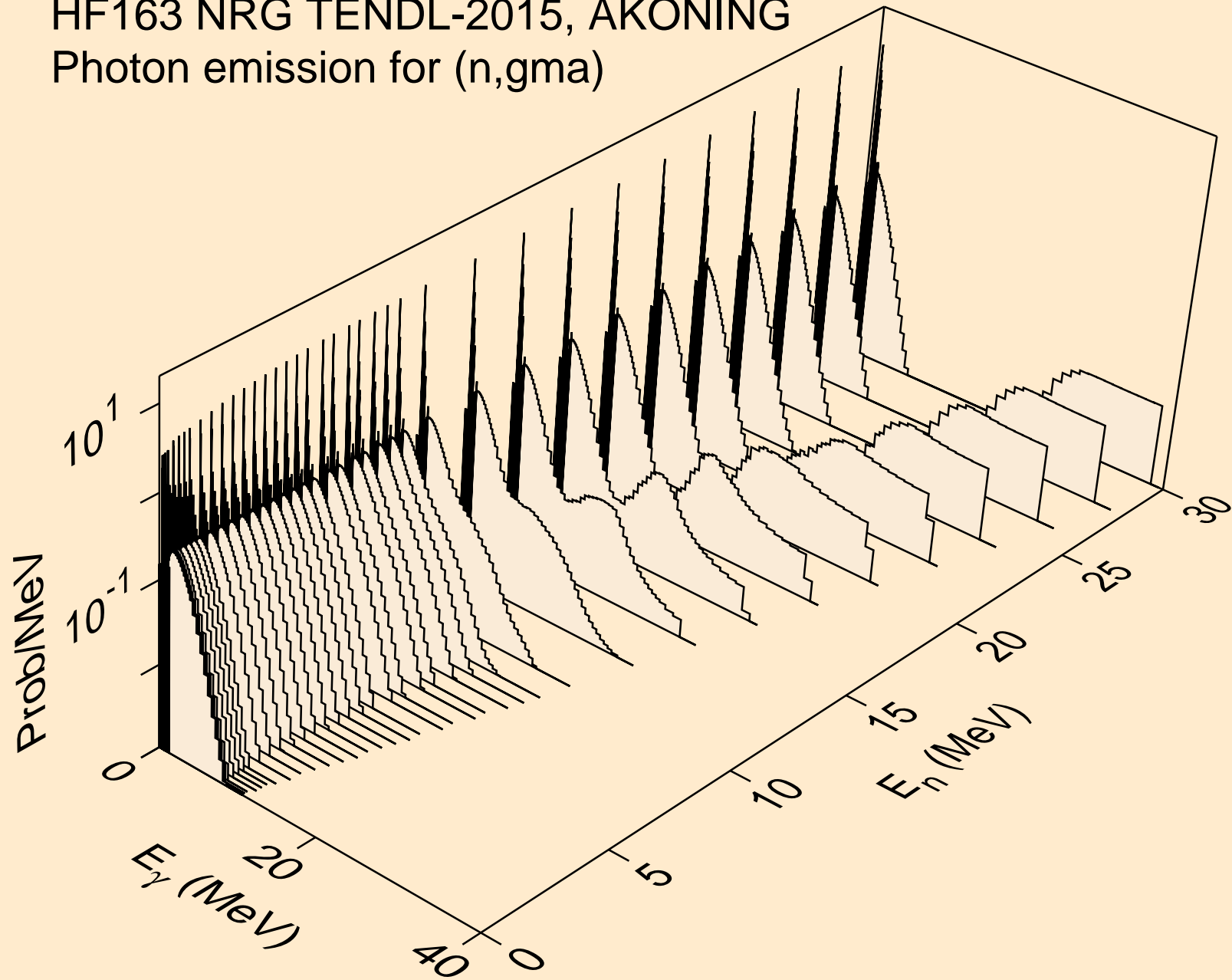
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,npa)



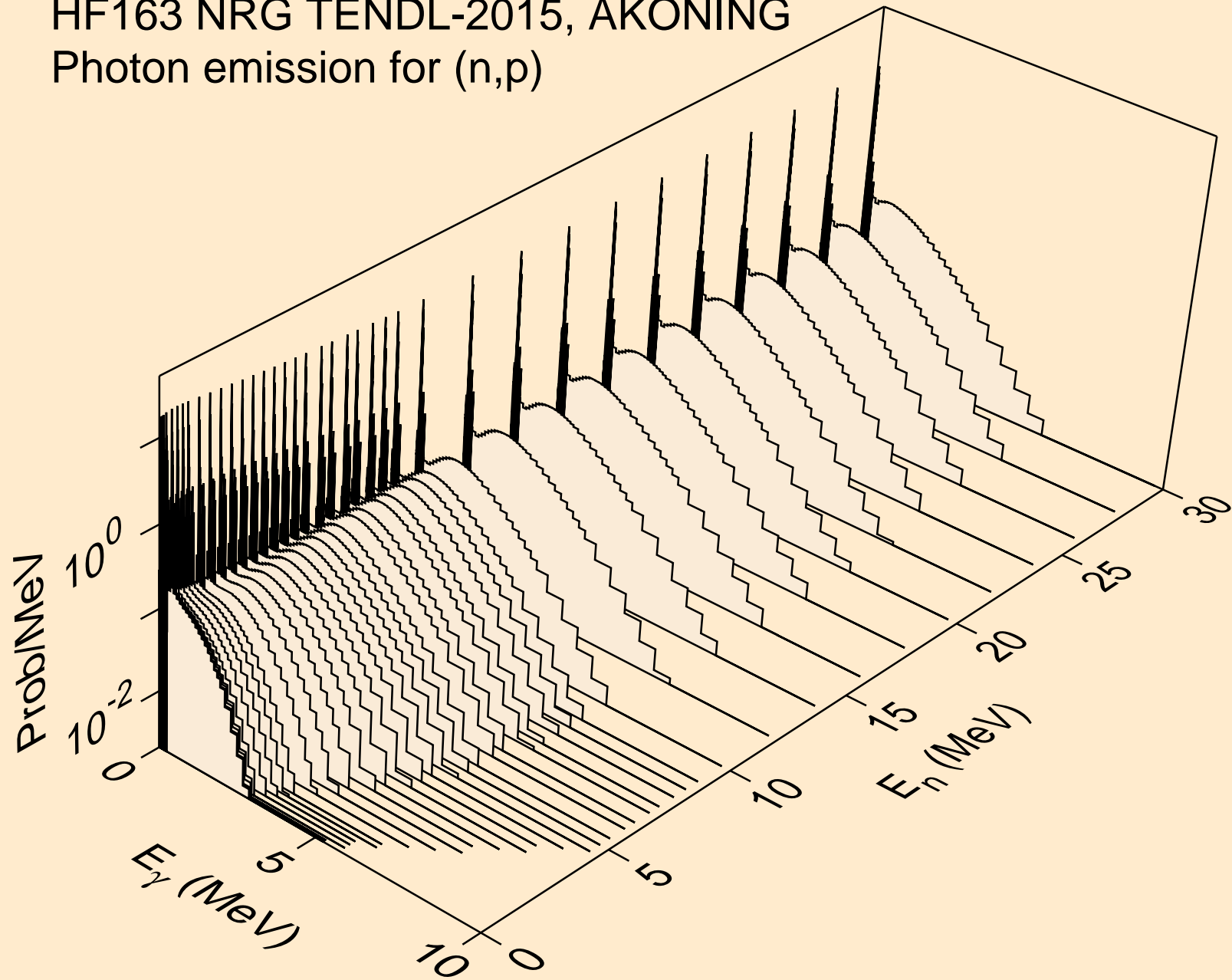
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,n\*c)



HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,gma)

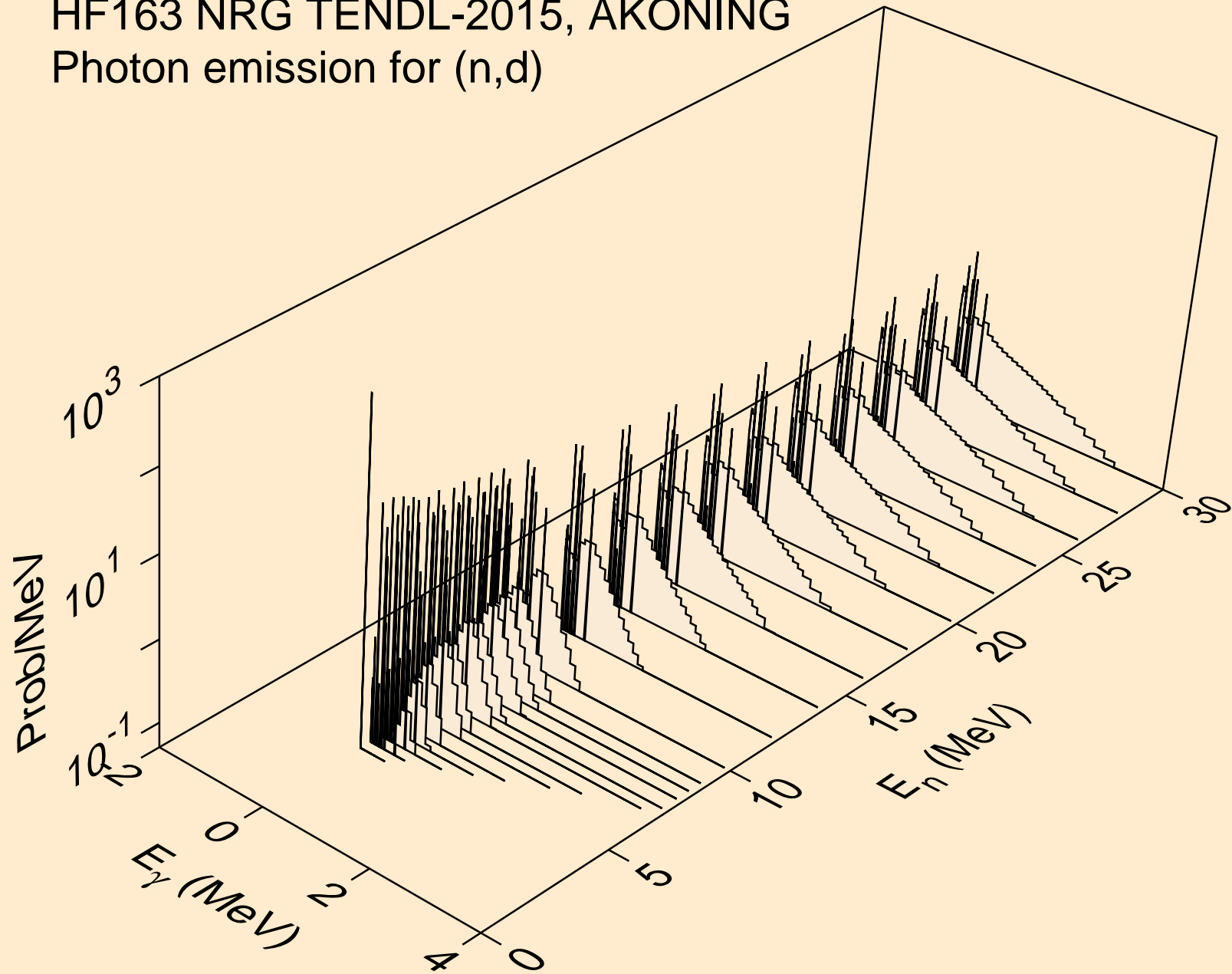


HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,p)

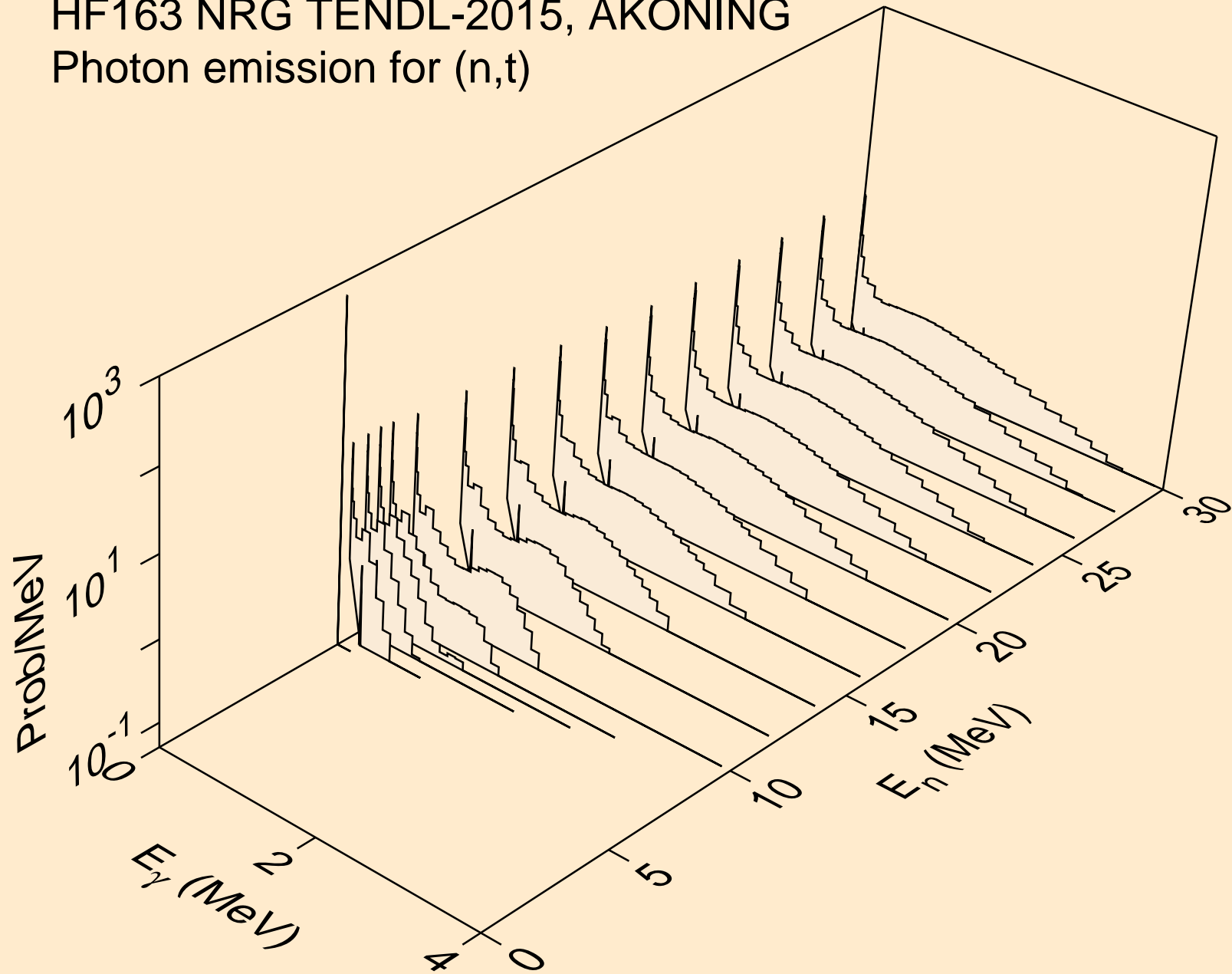




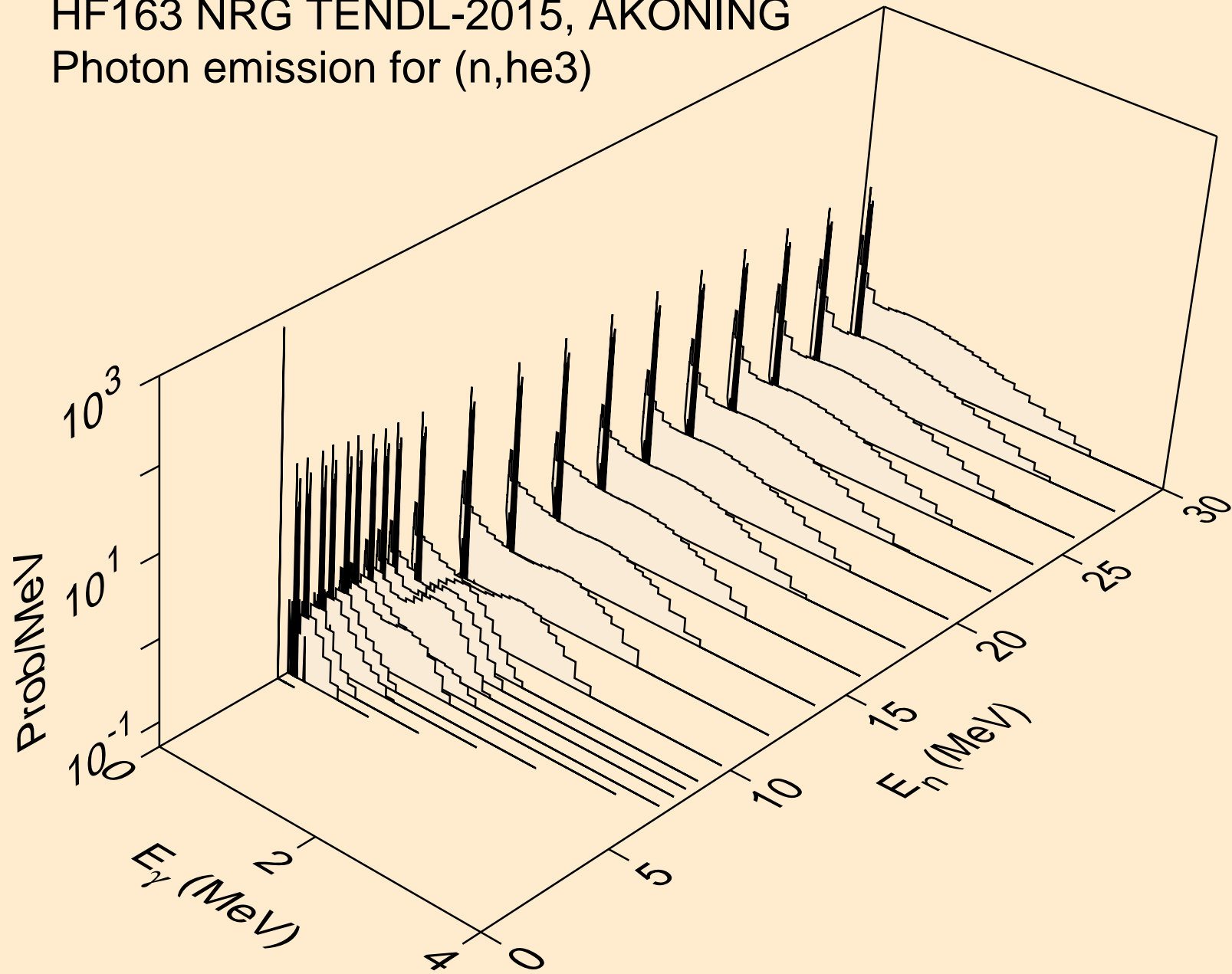
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,d)



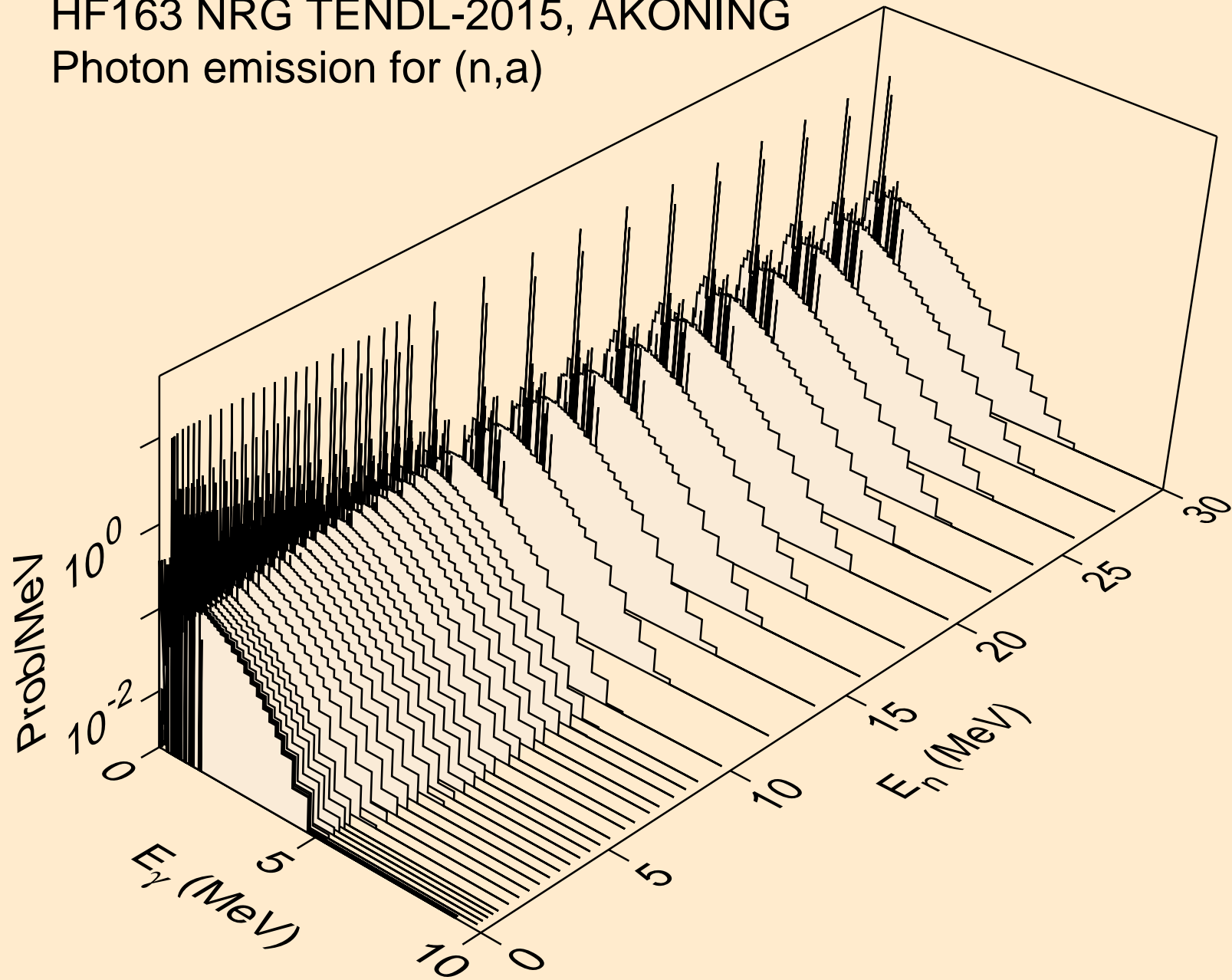
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,t)



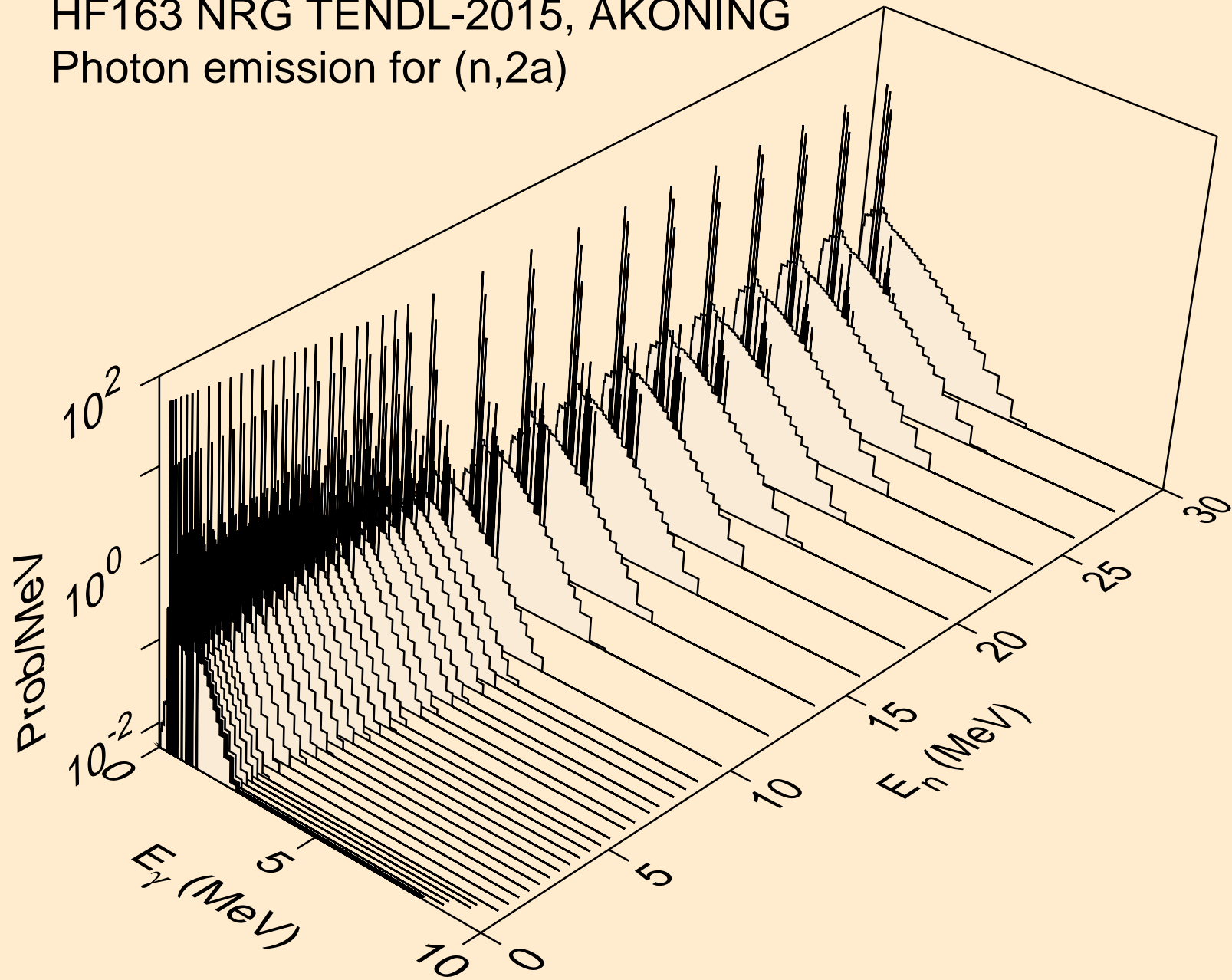
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,he3)



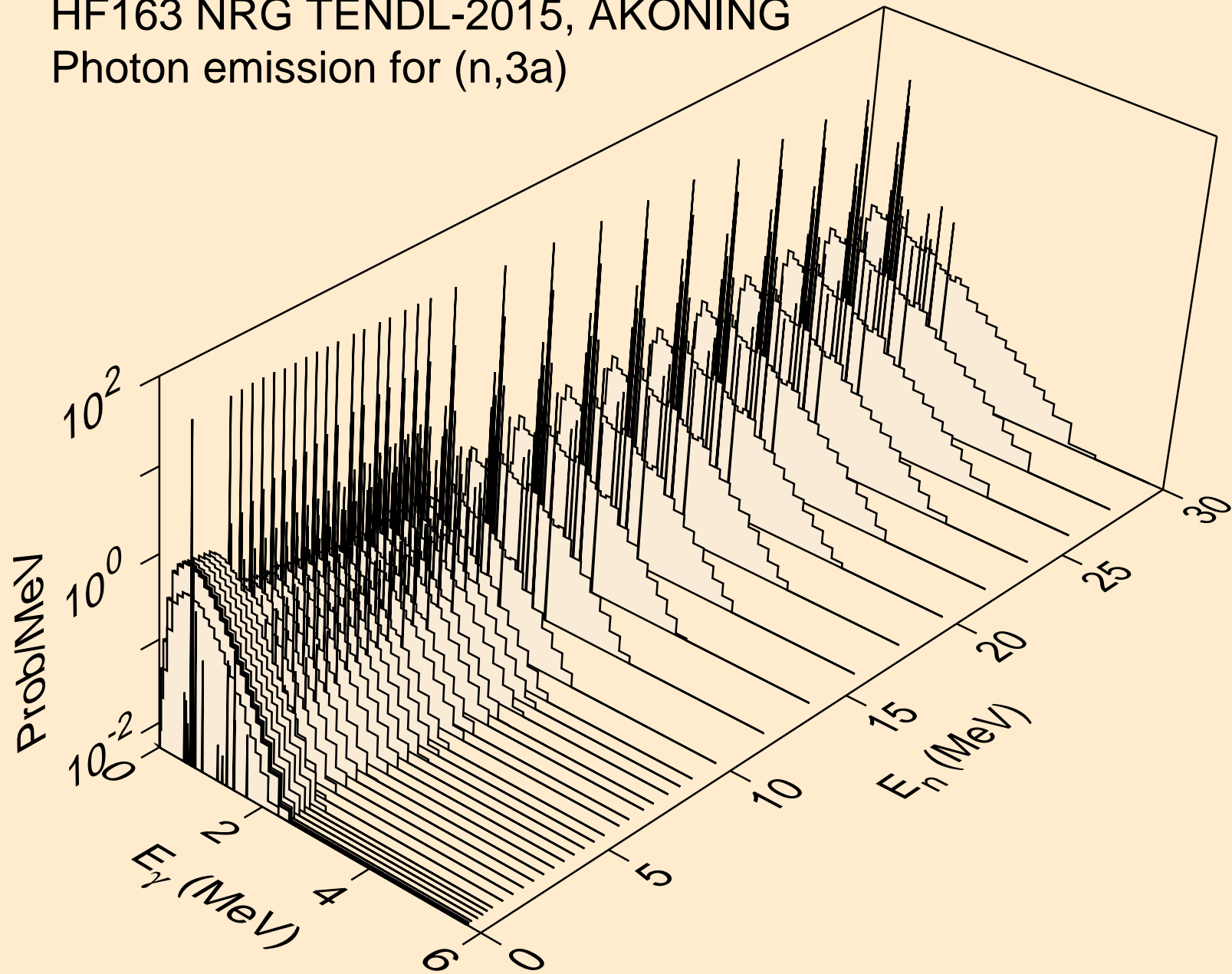
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,a)



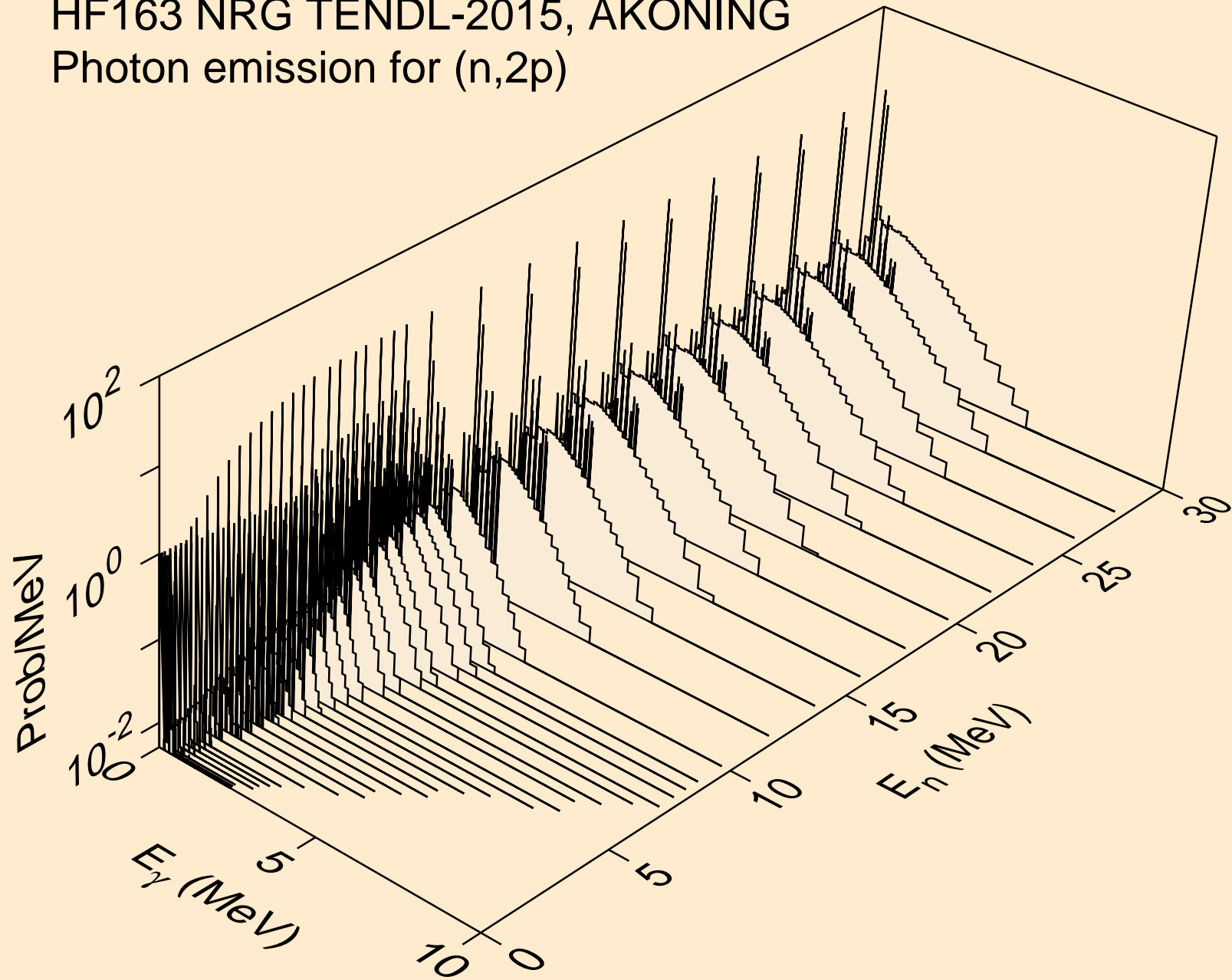
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,2a)



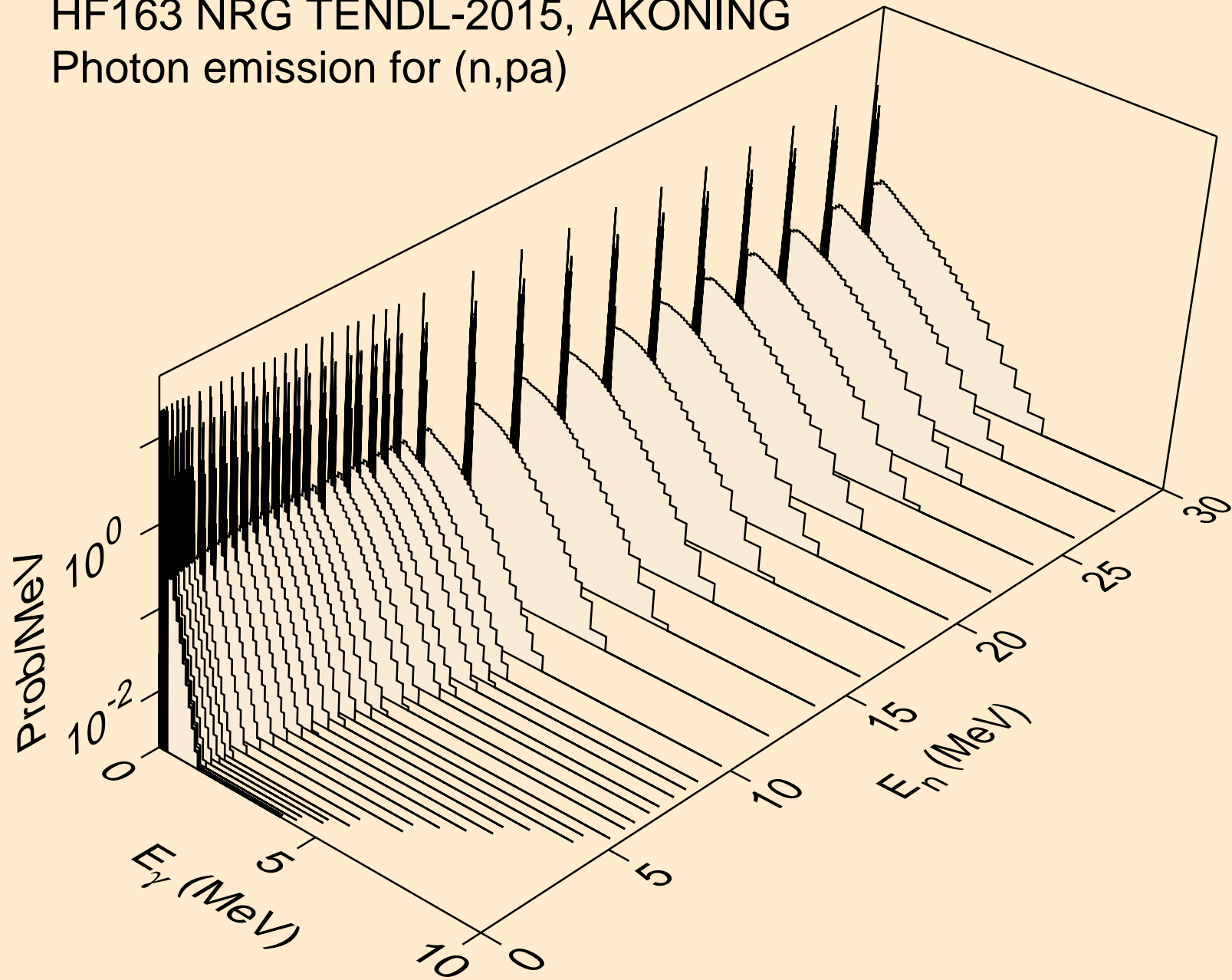
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,3a)



HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,2p)

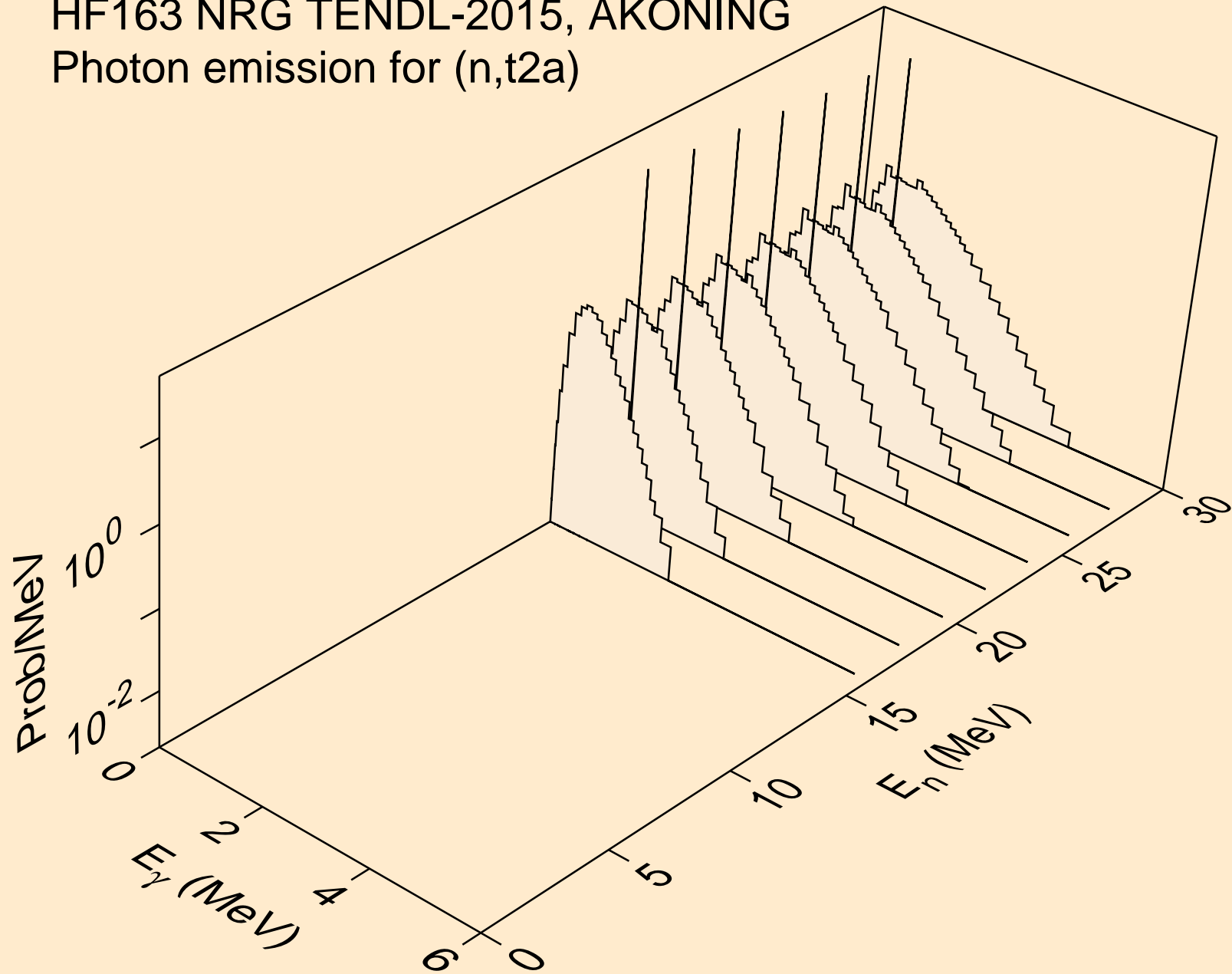


HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,p $\alpha$ )

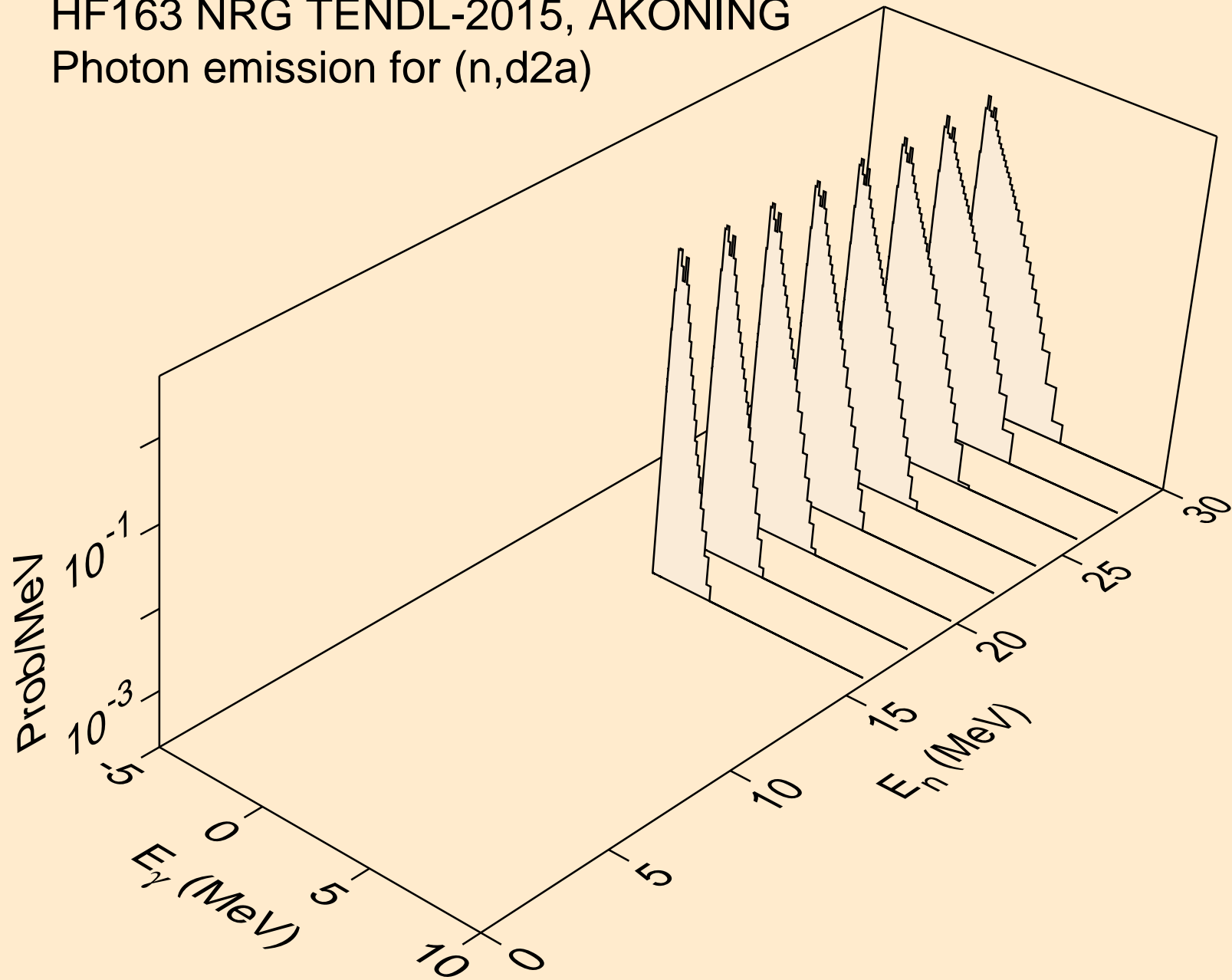




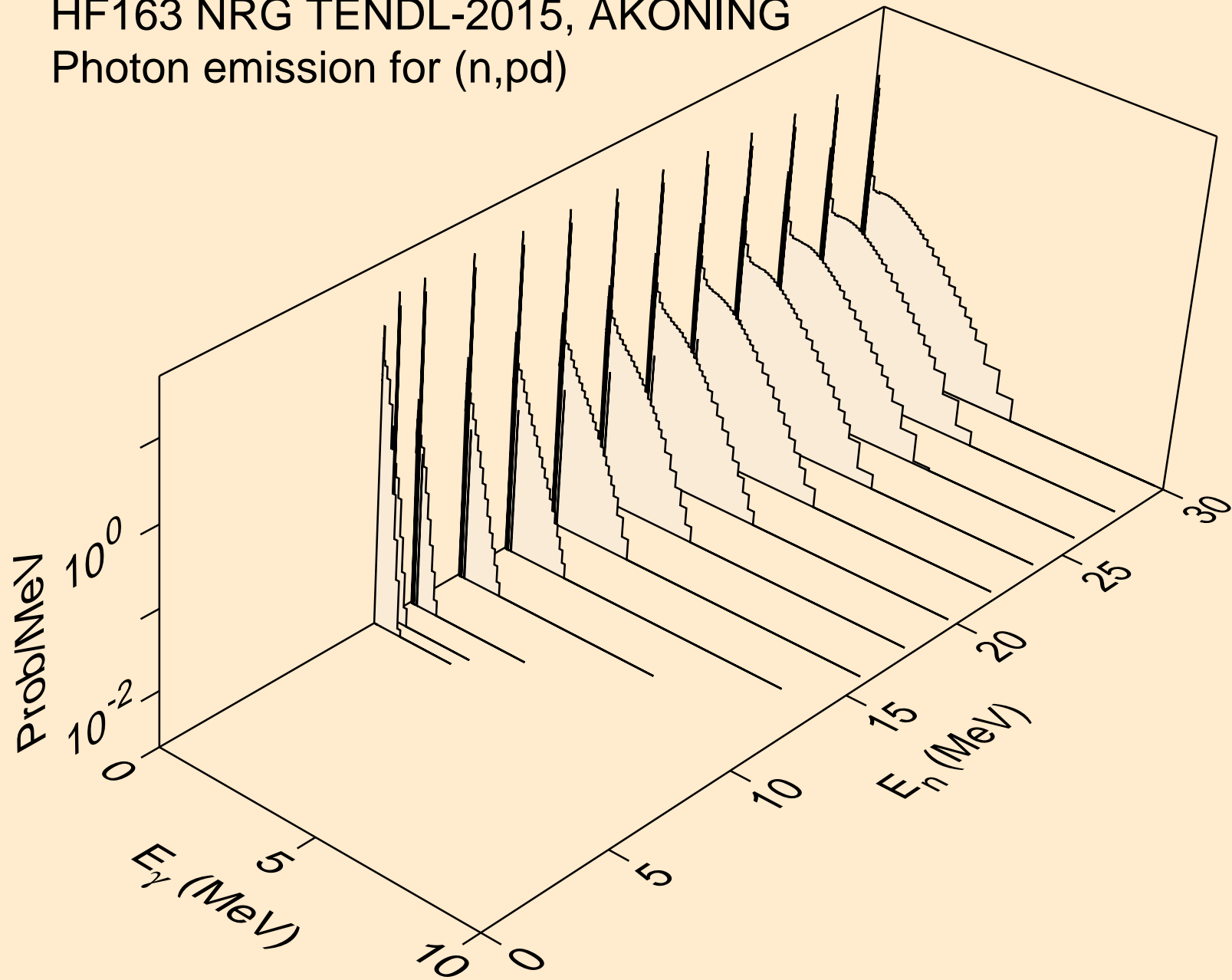
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,t2a)



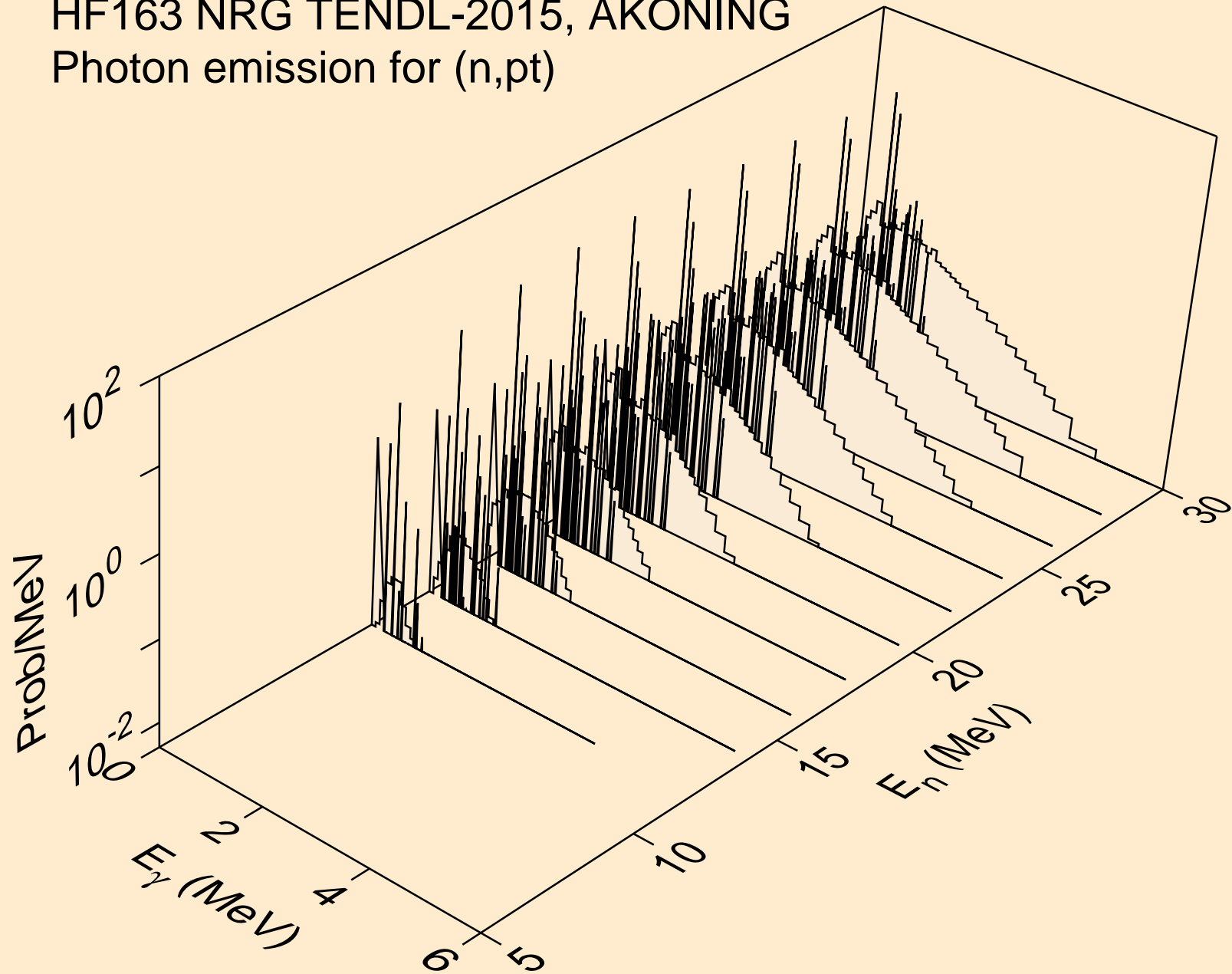
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,d2a)



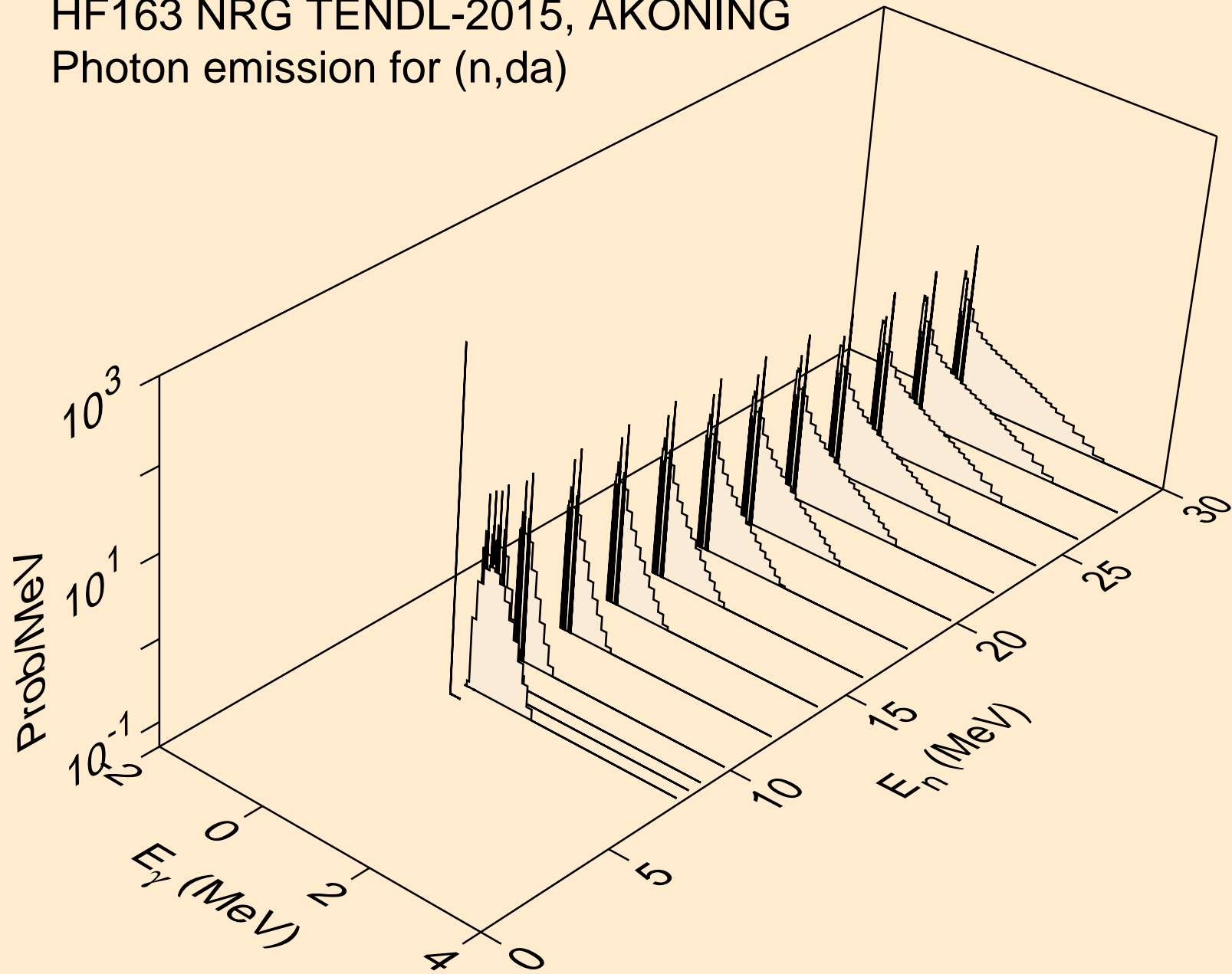
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,pd)



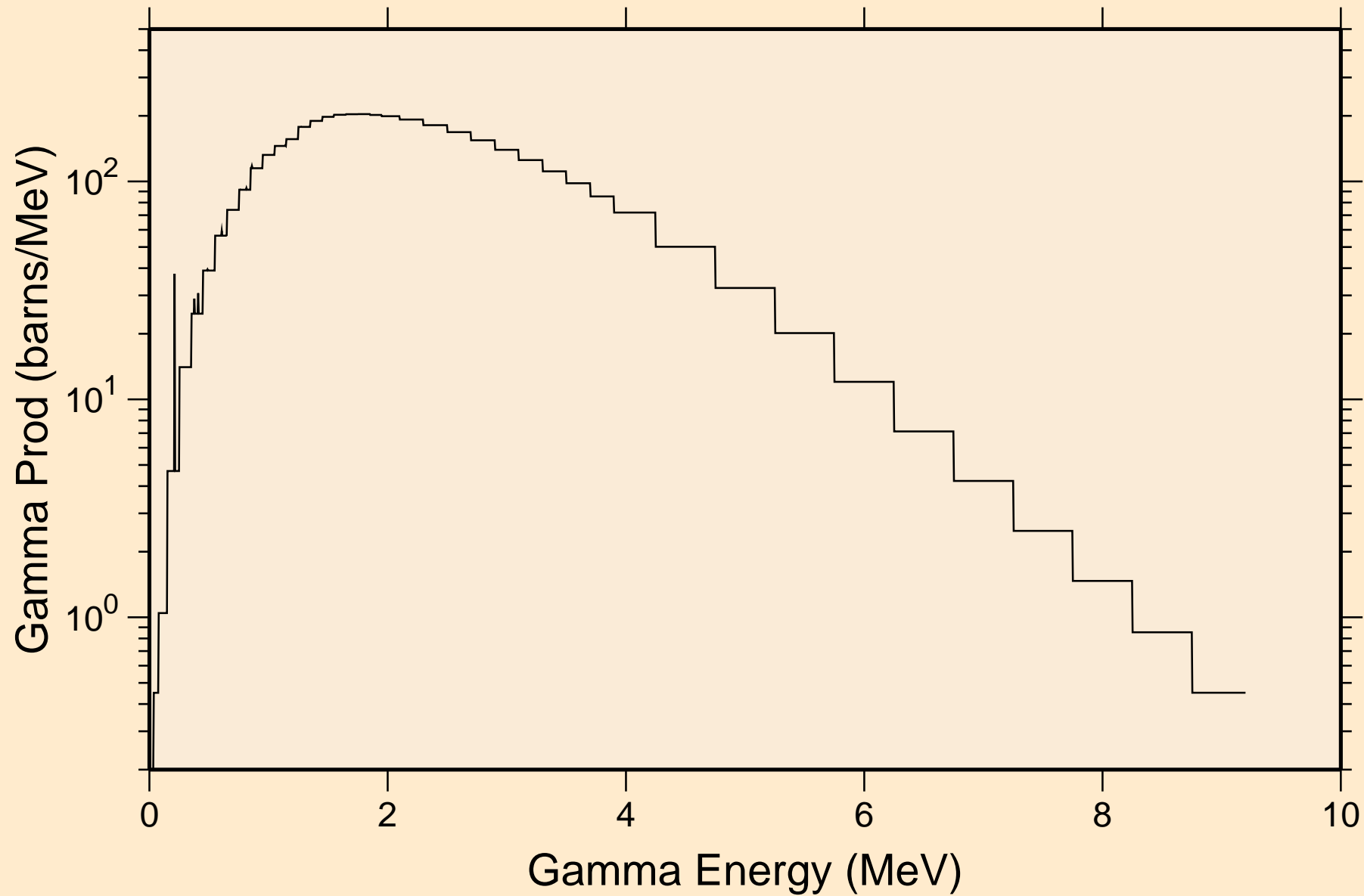
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,pt)



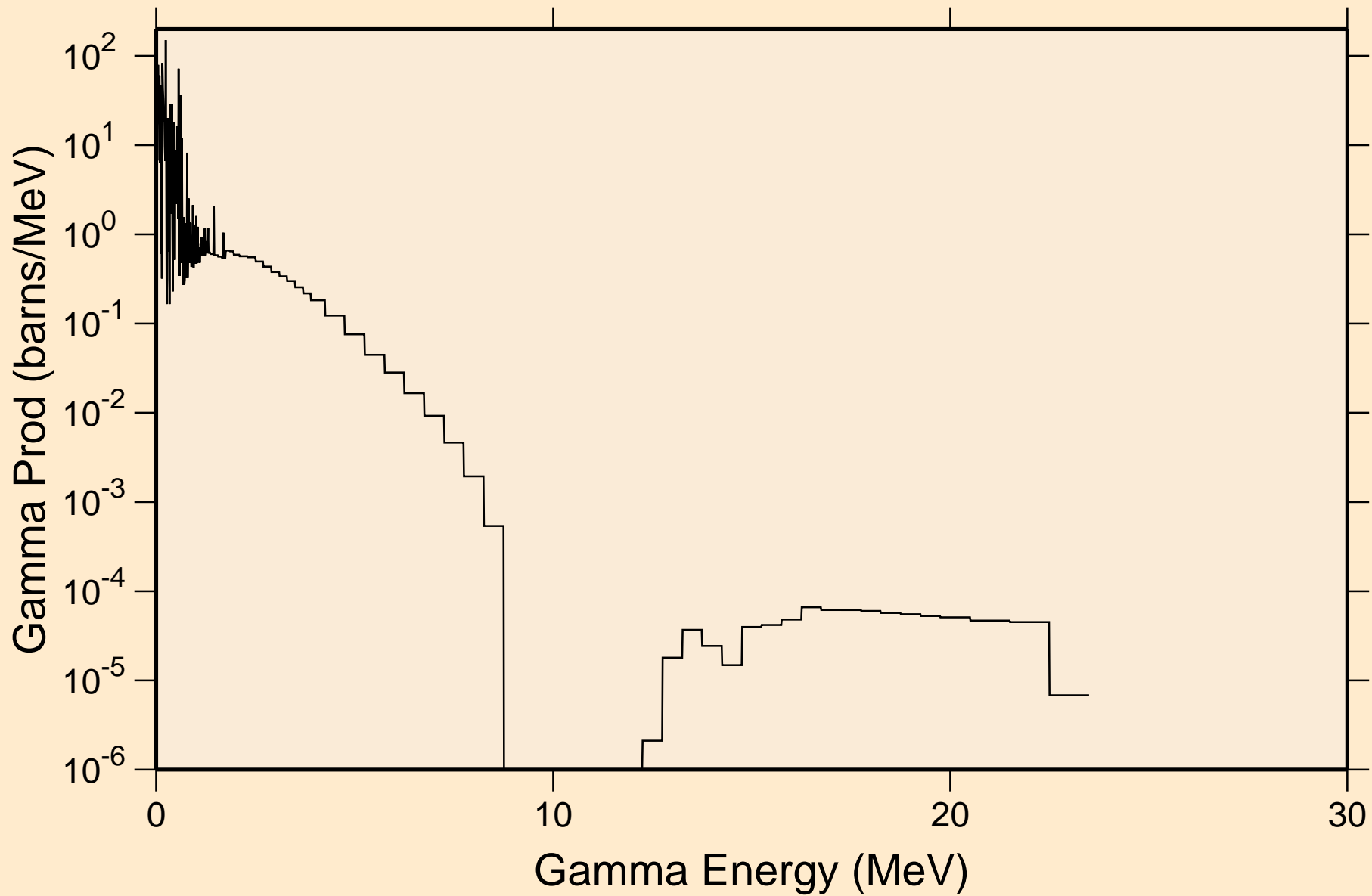
HF163 NRG TENDL-2015, AKONING  
Photon emission for (n,da)



HF163 NRG TENDL-2015, AKONING  
thermal capture photon spectrum

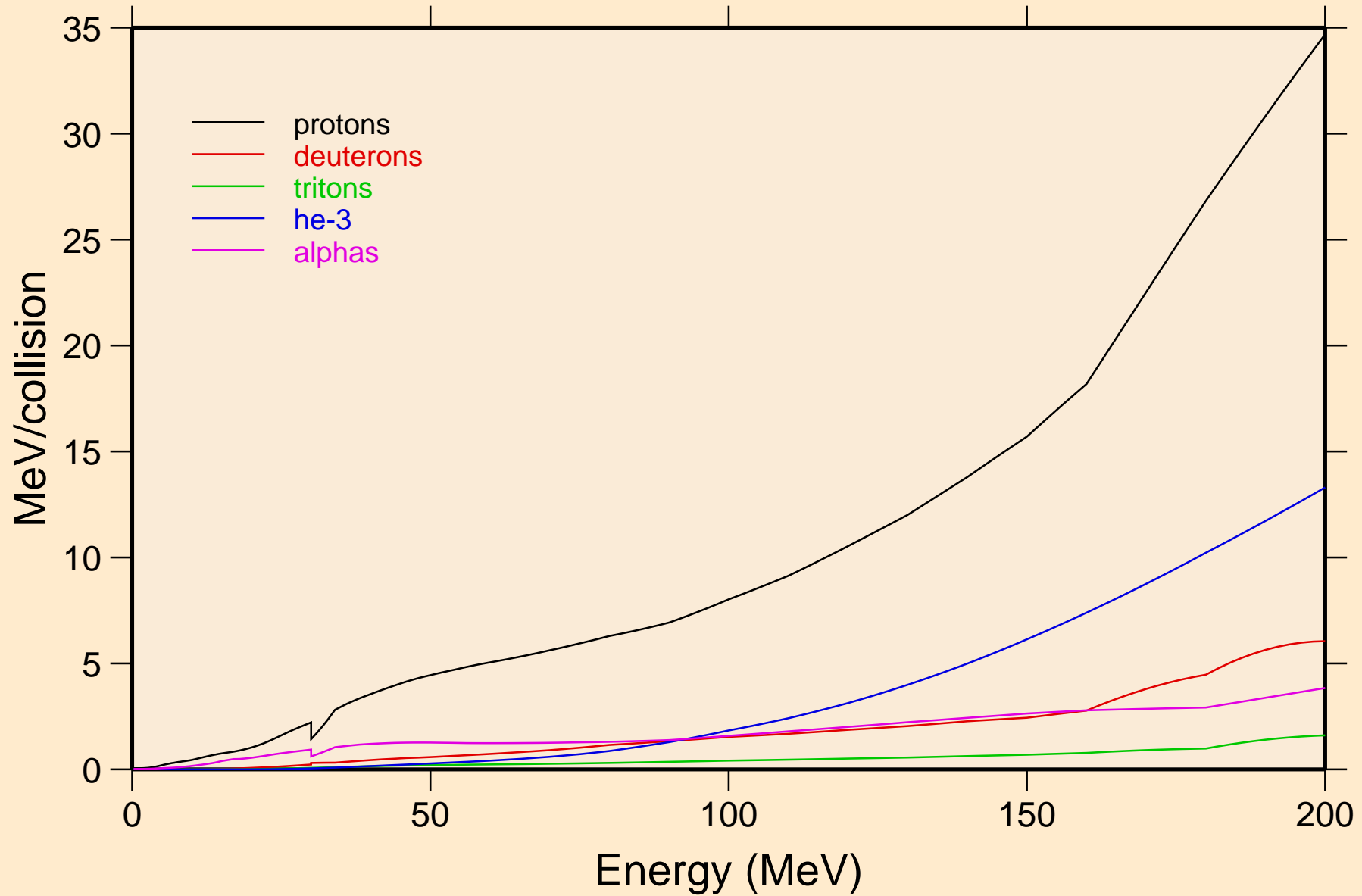


HF163 NRG TENDL-2015, AKONING  
14 MeV photon spectrum



# HF163 NRG TENDL-2015, AKONING

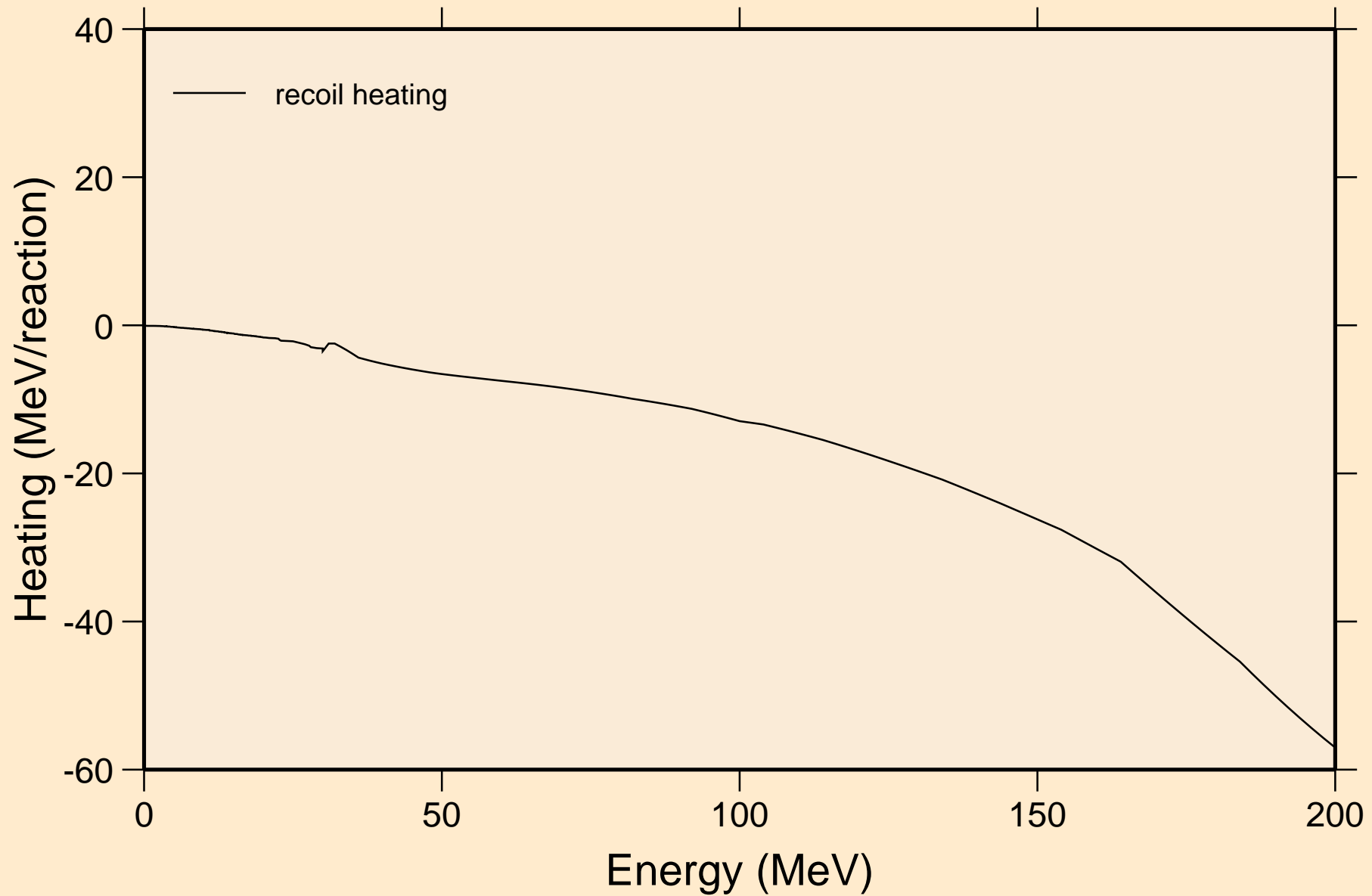
## Particle heating contributions





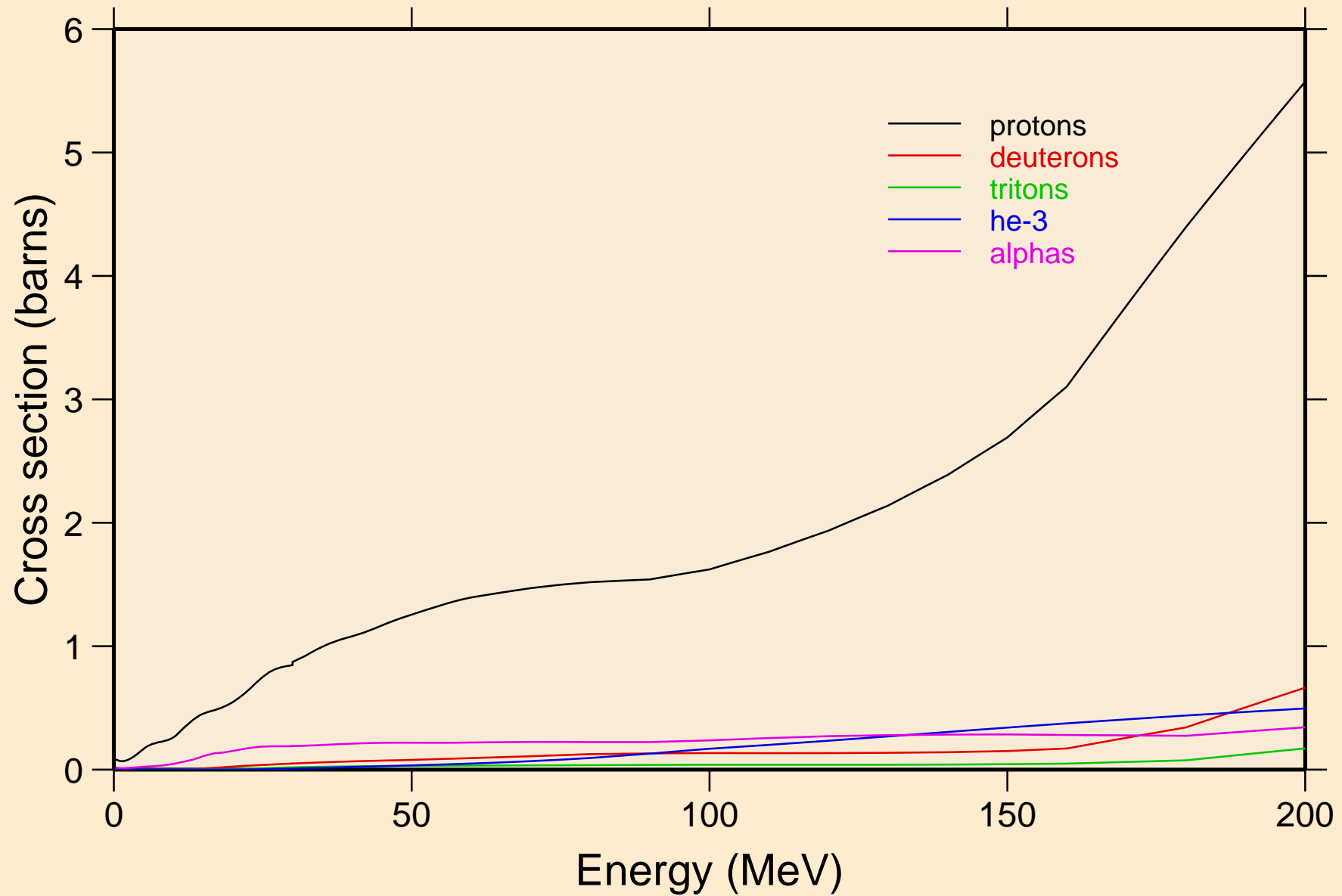
# HF163 NRG TENDL-2015, AKONING

## Recoil Heating

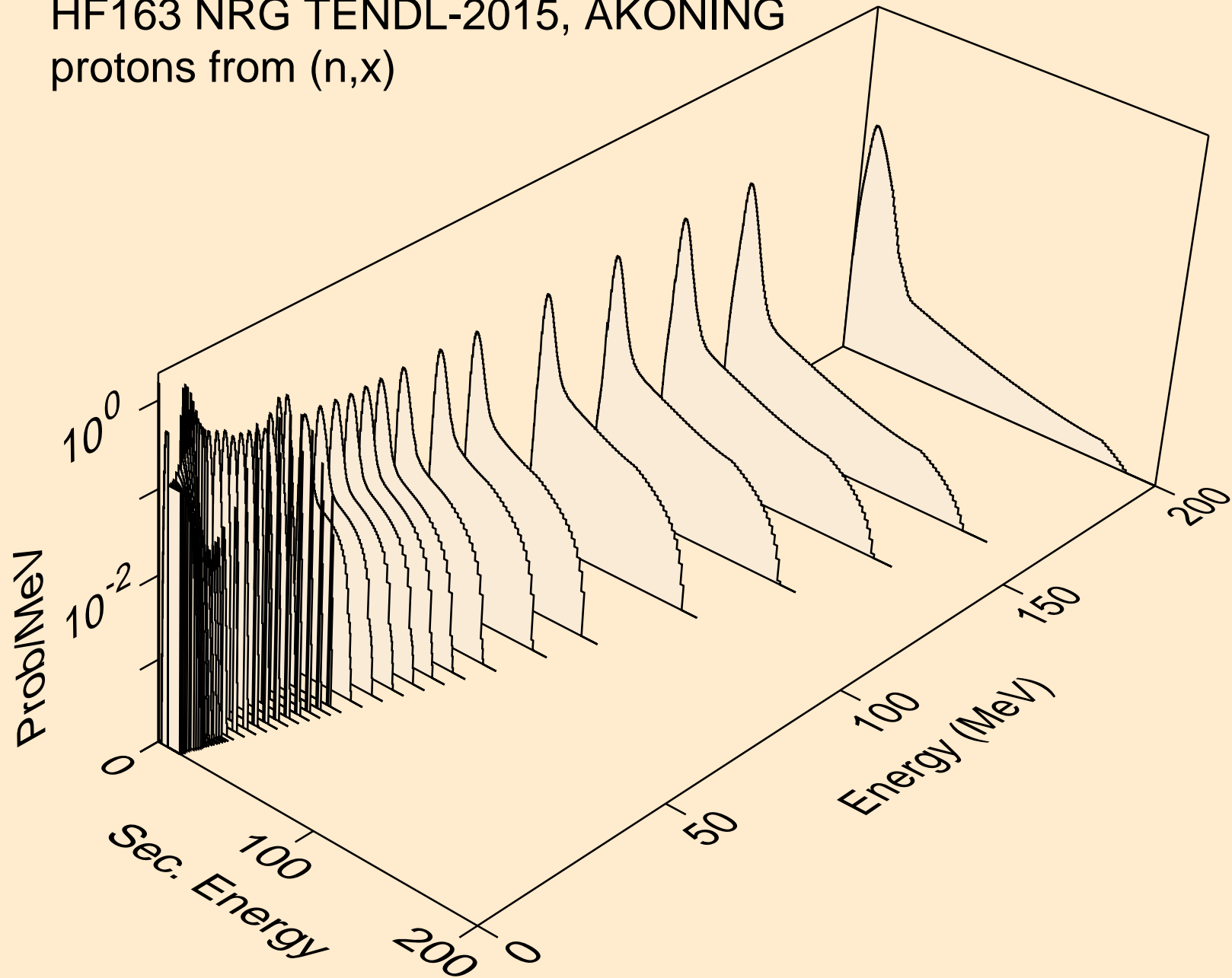


# HF163 NRG TENDL-2015, AKONING

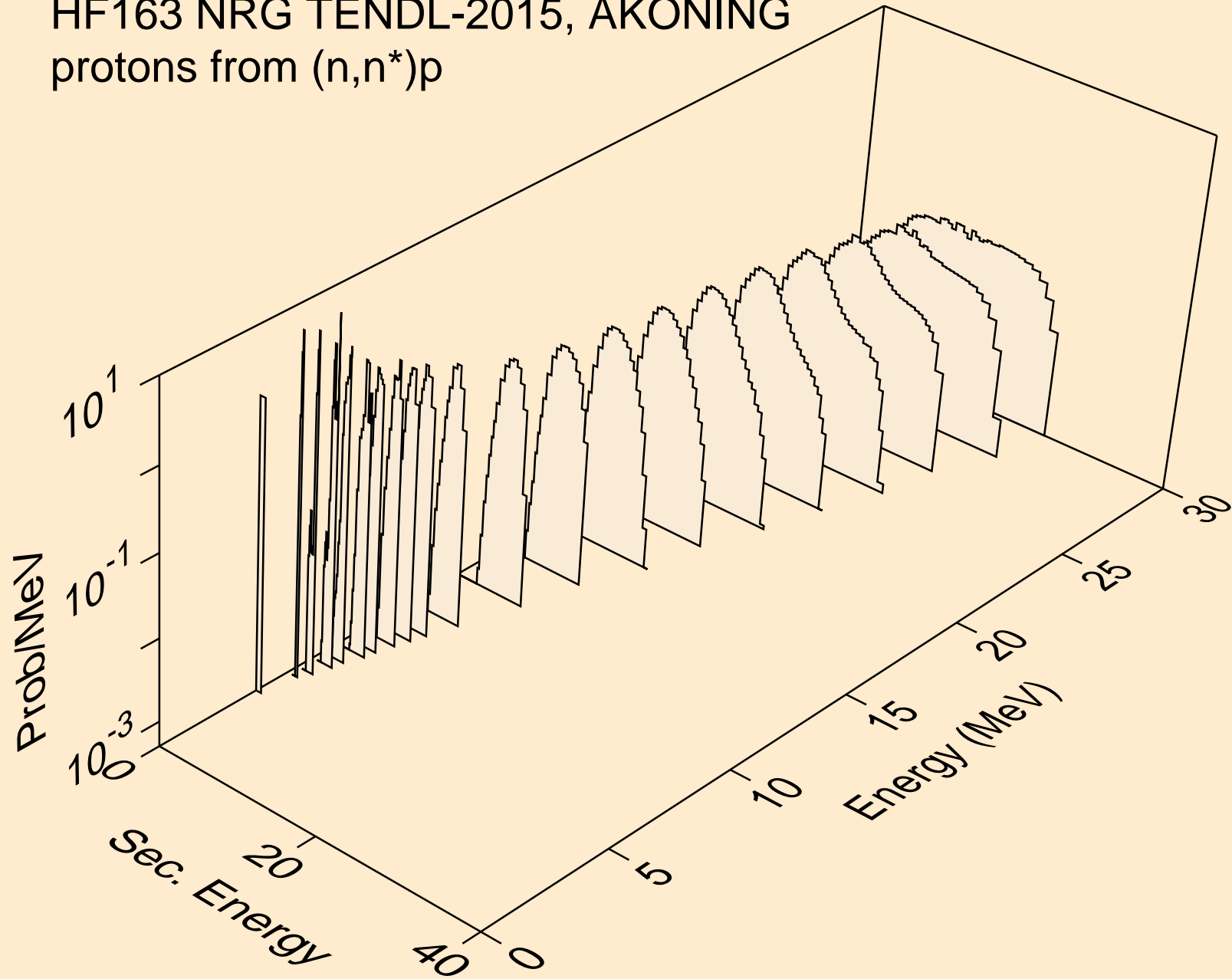
## Particle production cross sections



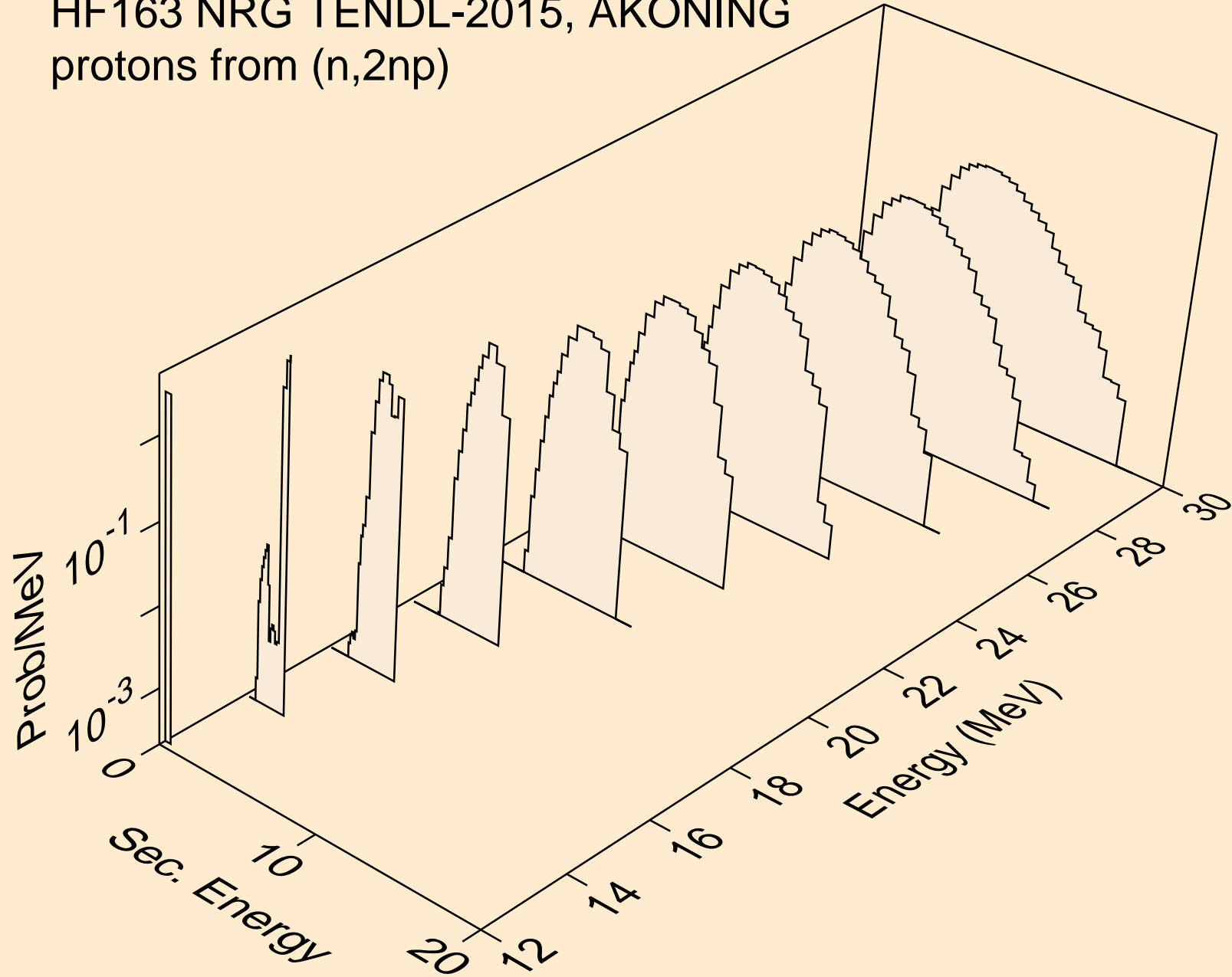
HF163 NRG TENDL-2015, AKONING  
protons from (n,x)



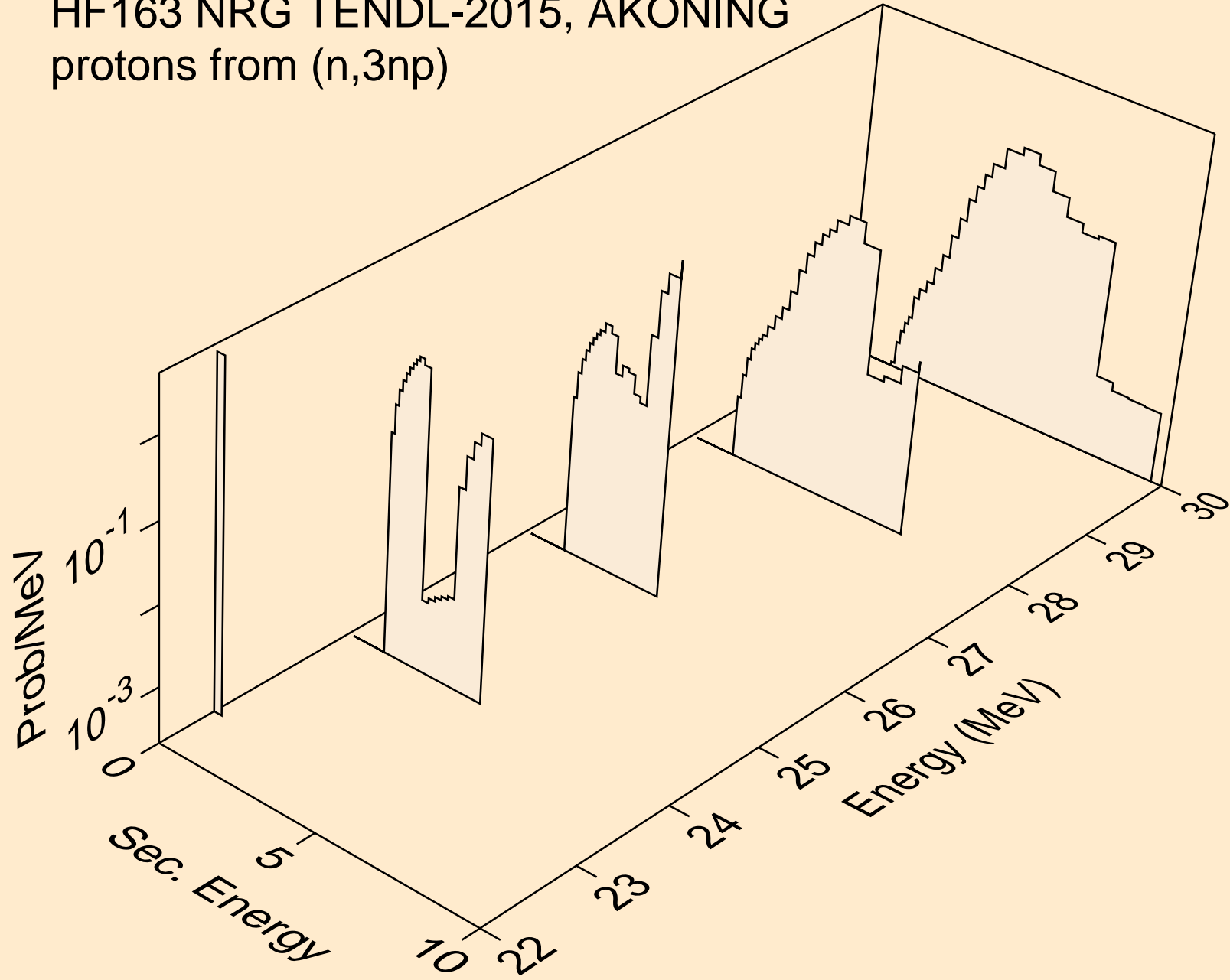
HF163 NRG TENDL-2015, AKONING  
protons from (n,n\*)p



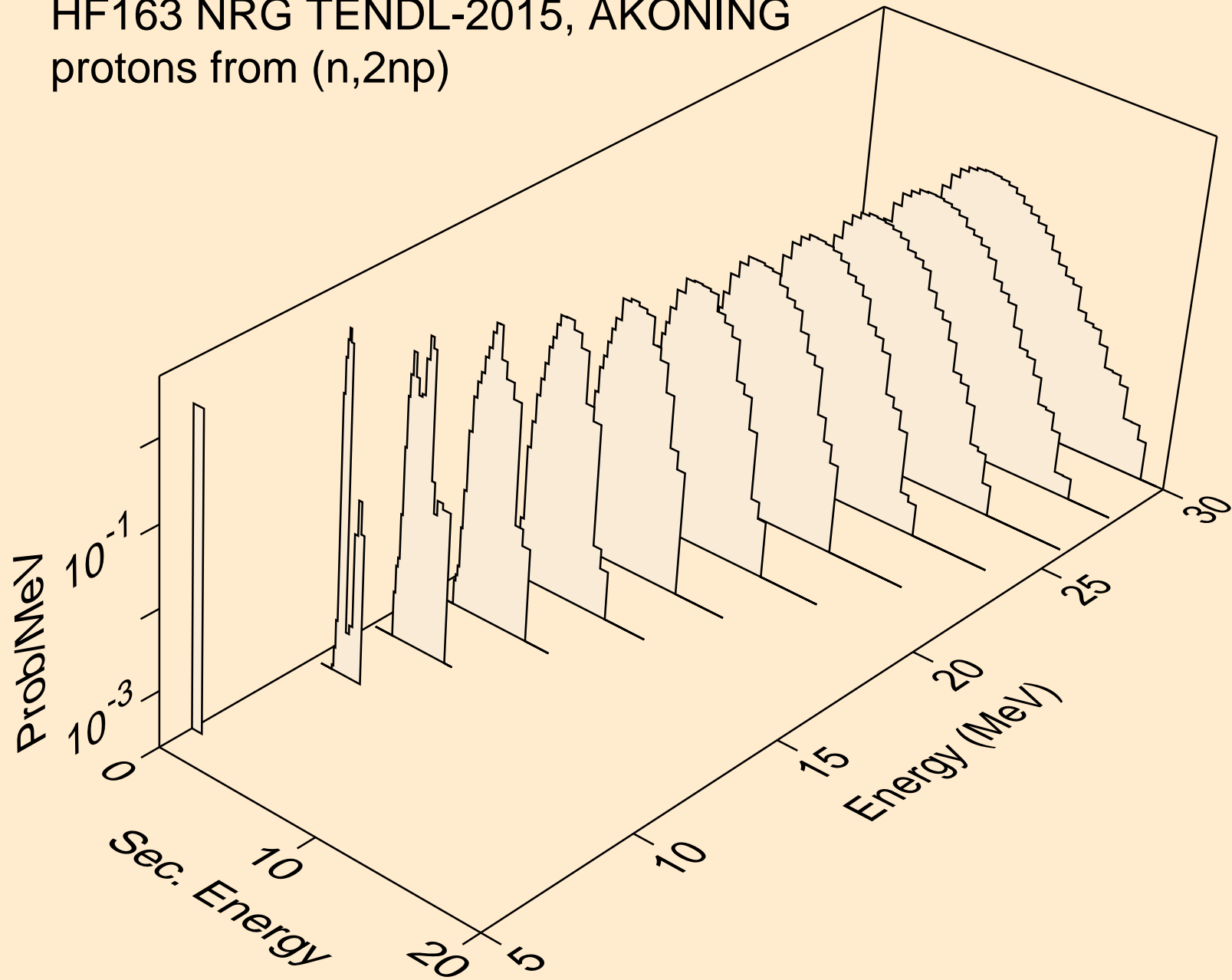
HF163 NRG TENDL-2015, AKONING  
protons from (n,2np)



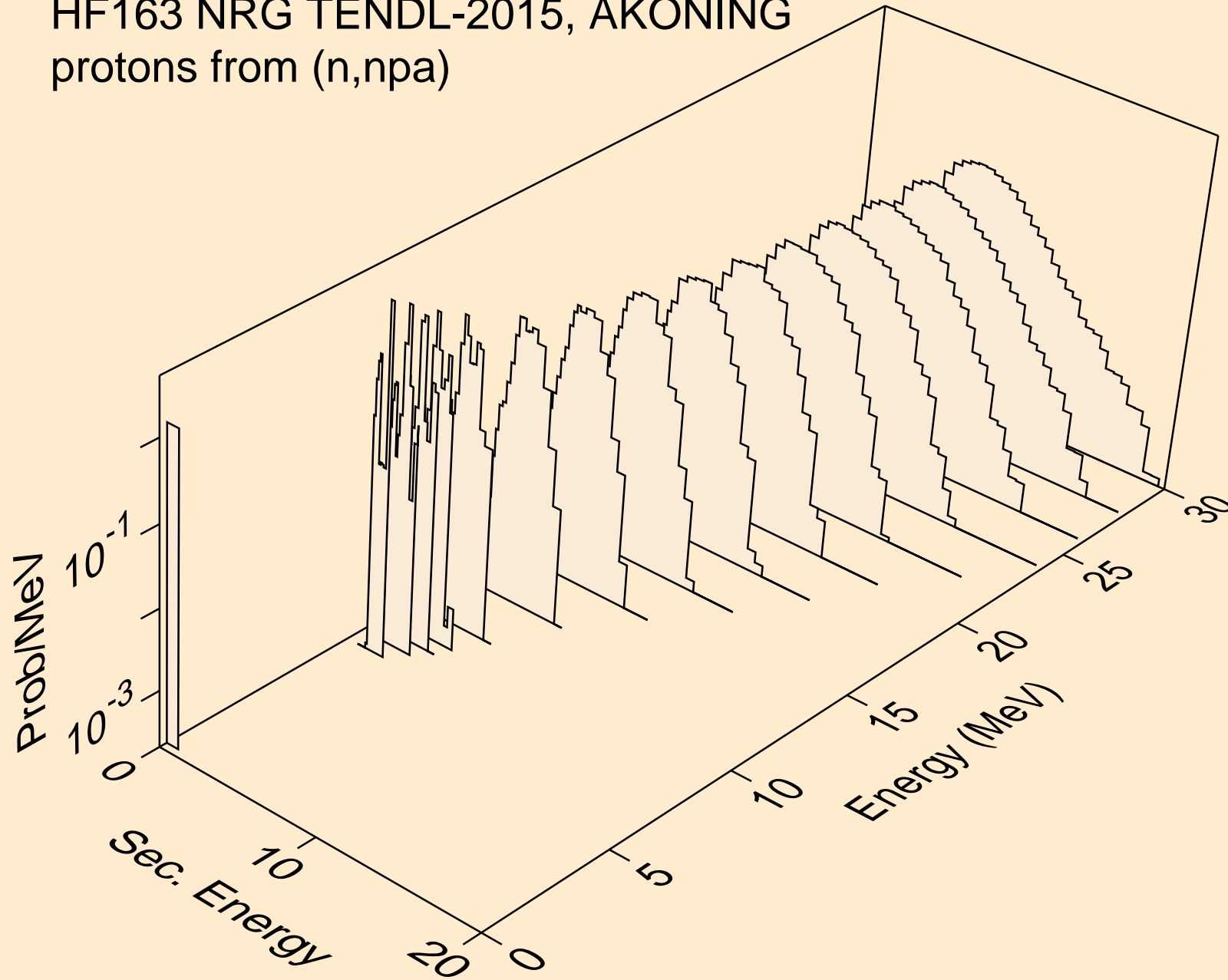
HF163 NRG TENDL-2015, AKONING  
protons from (n,3np)



HF163 NRG TENDL-2015, AKONING  
protons from (n,2np)

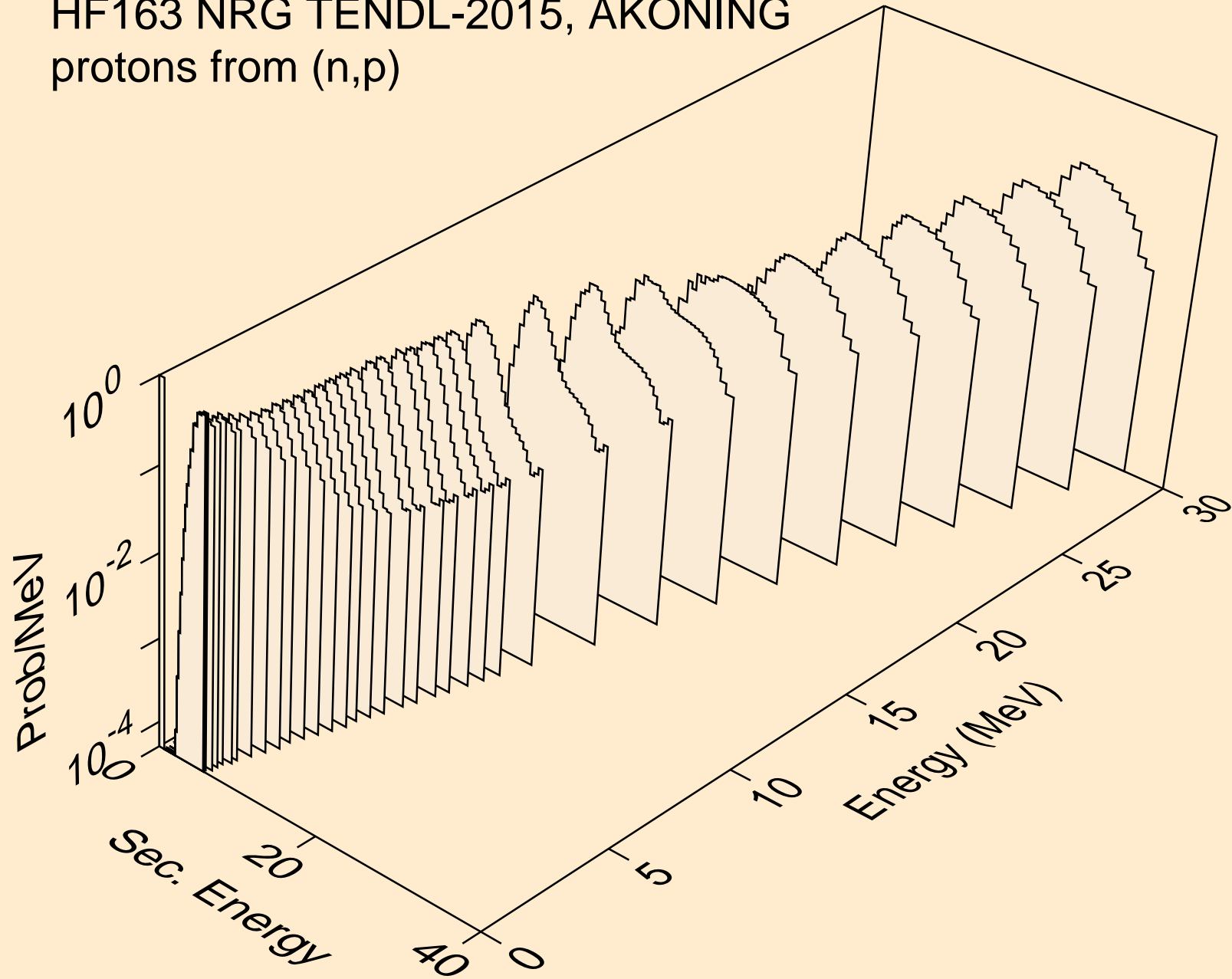


HF163 NRG TENDL-2015, AKONING  
protons from (n,npa)

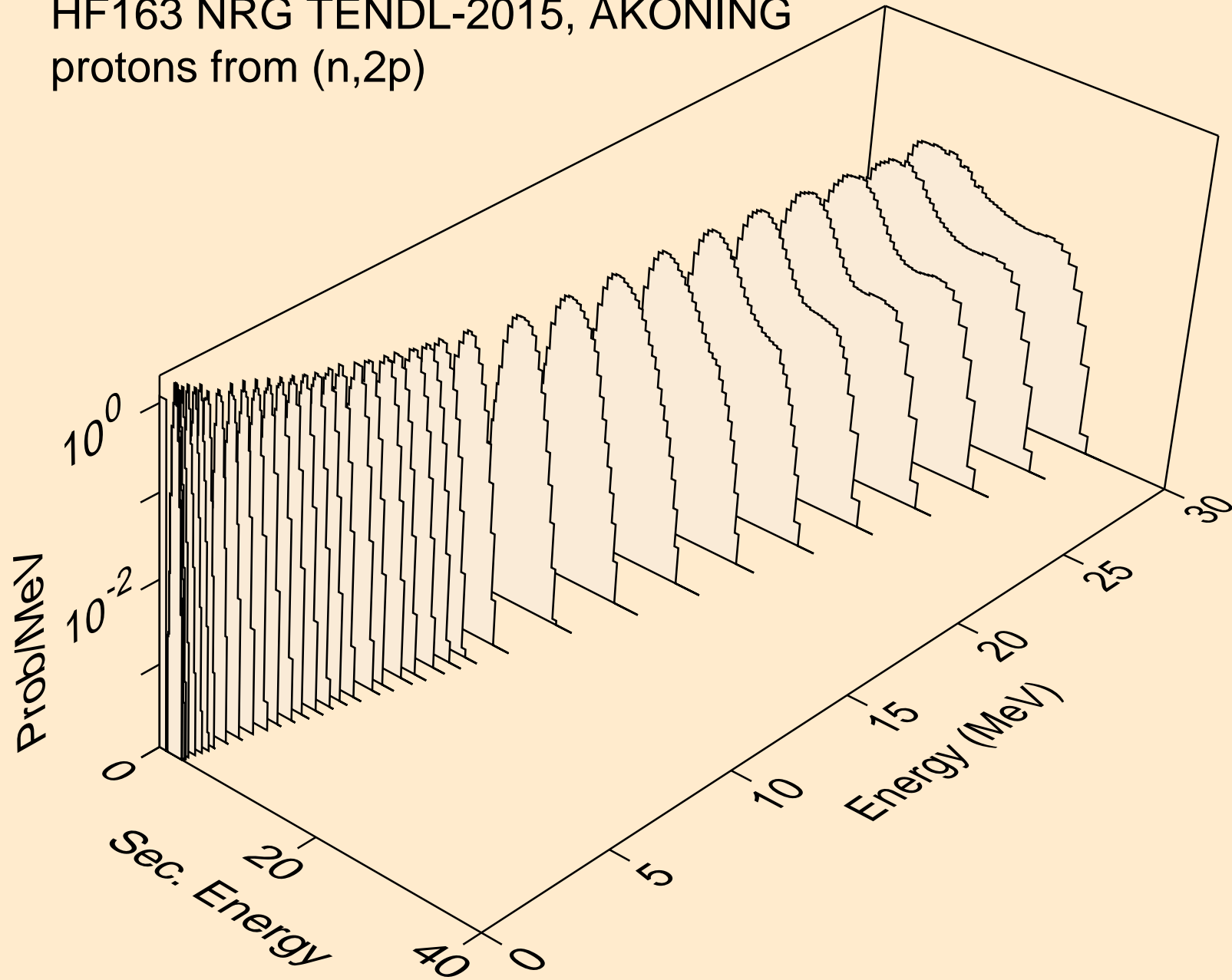




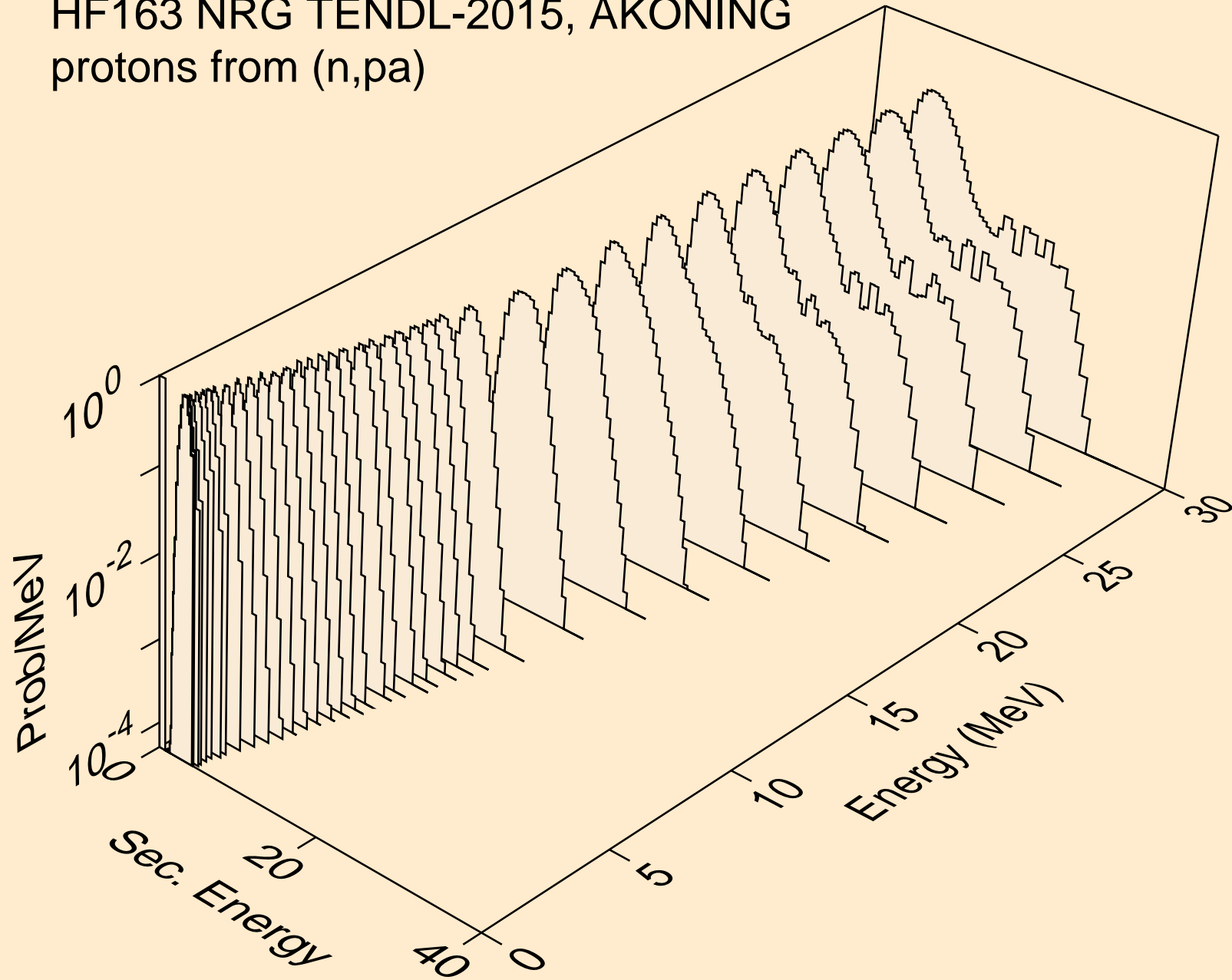
HF163 NRG TENDL-2015, AKONING  
protons from (n,p)



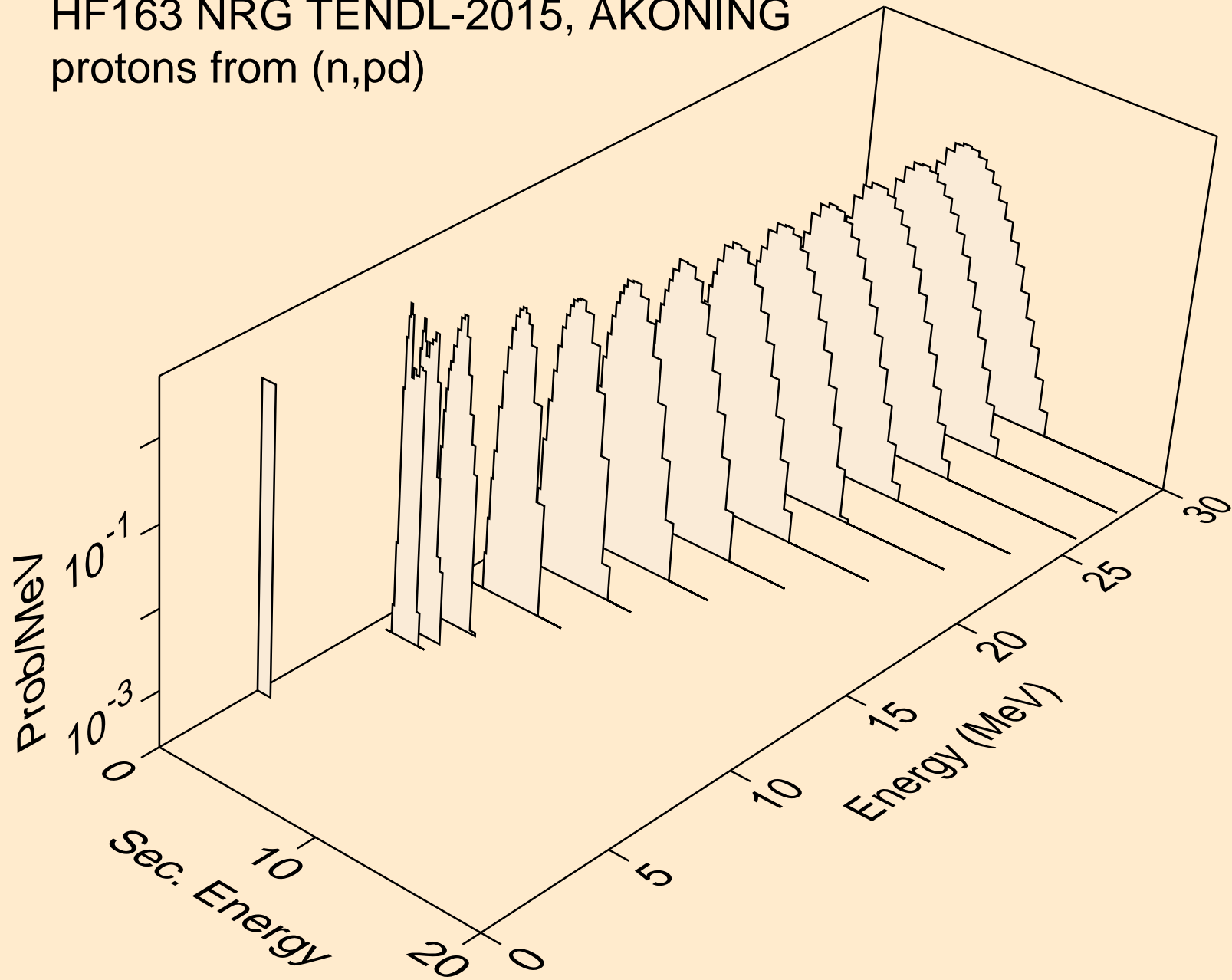
HF163 NRG TENDL-2015, AKONING  
protons from (n,2p)



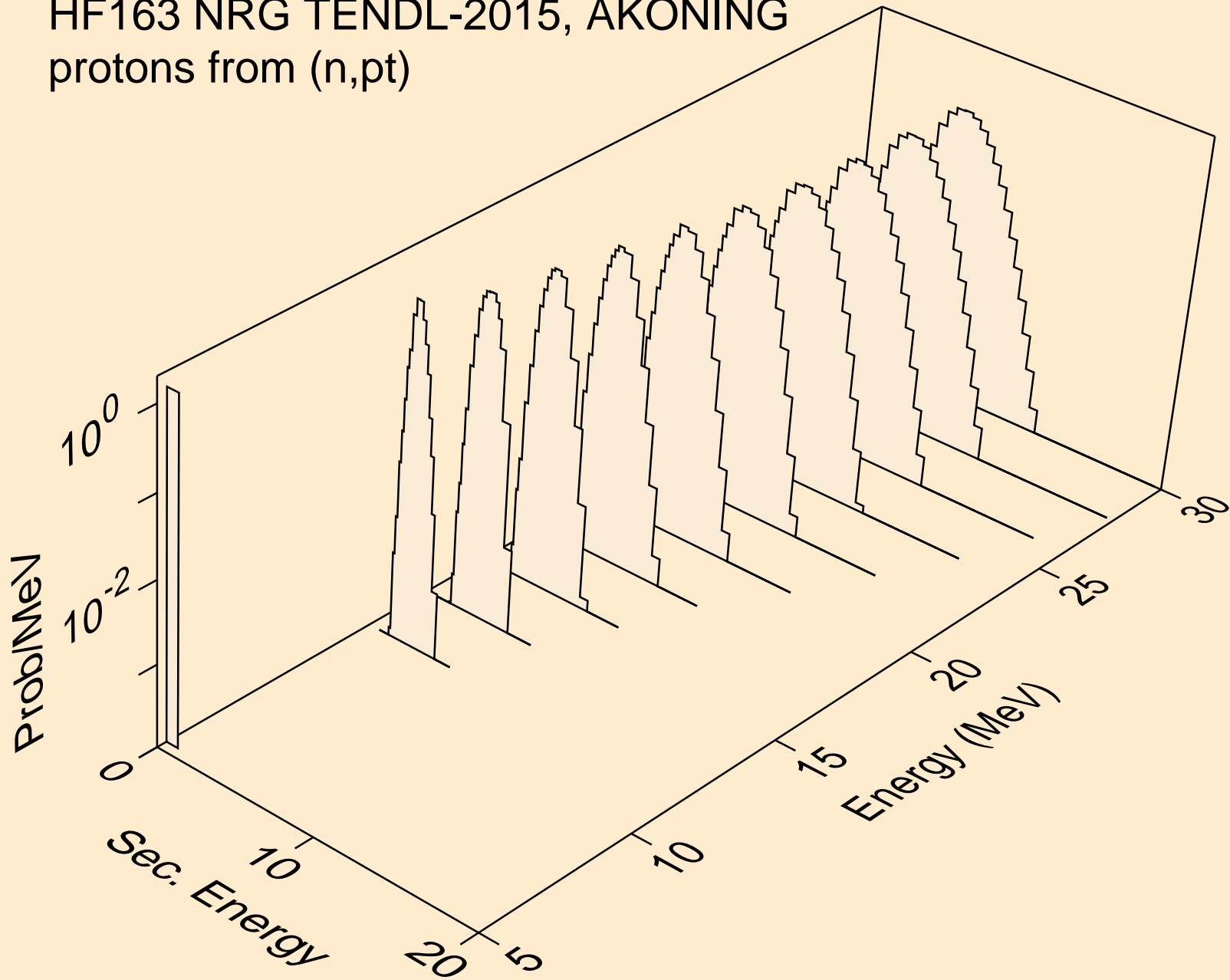
HF163 NRG TENDL-2015, AKONING  
protons from (n,pa)



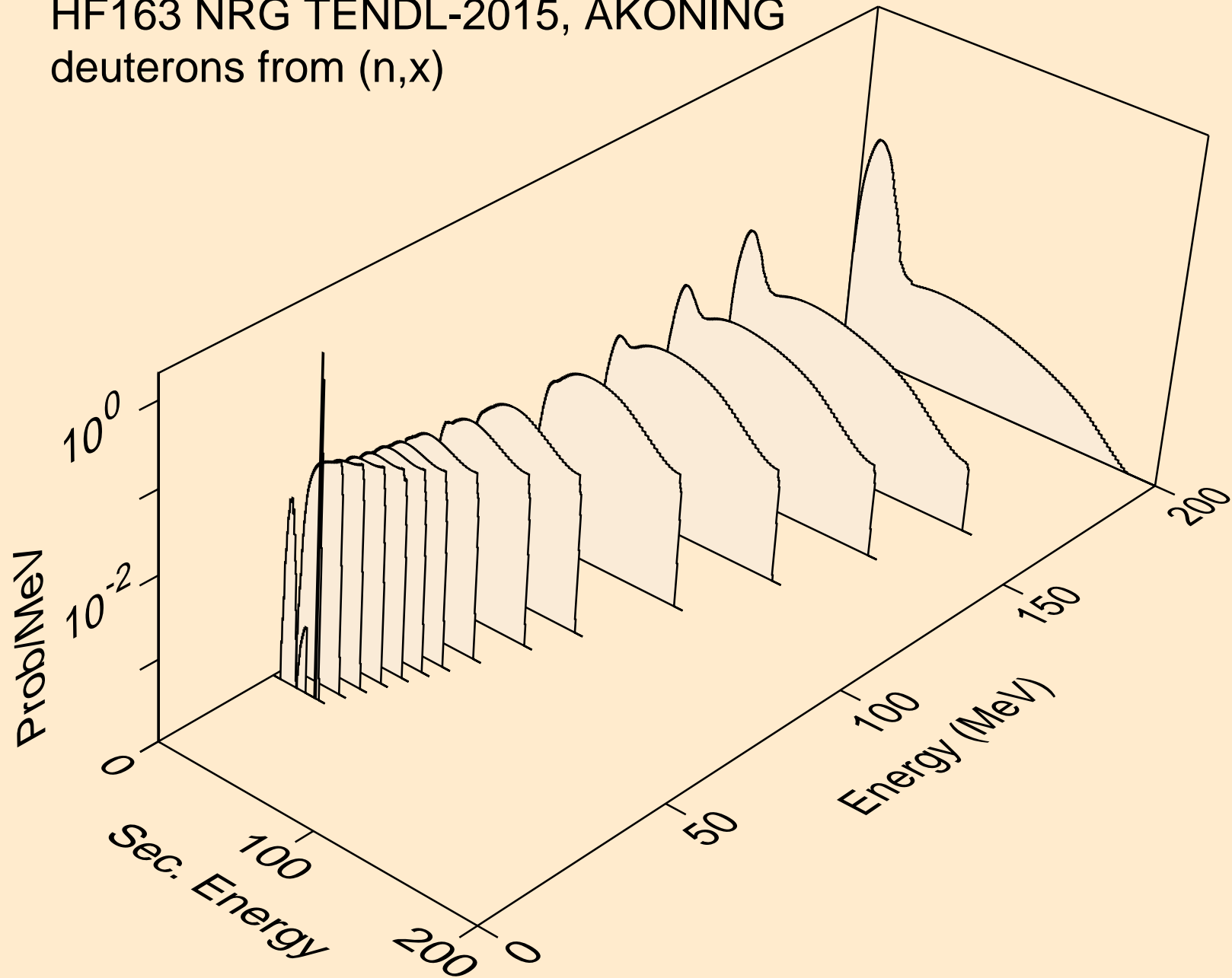
HF163 NRG TENDL-2015, AKONING  
protons from (n,pd)



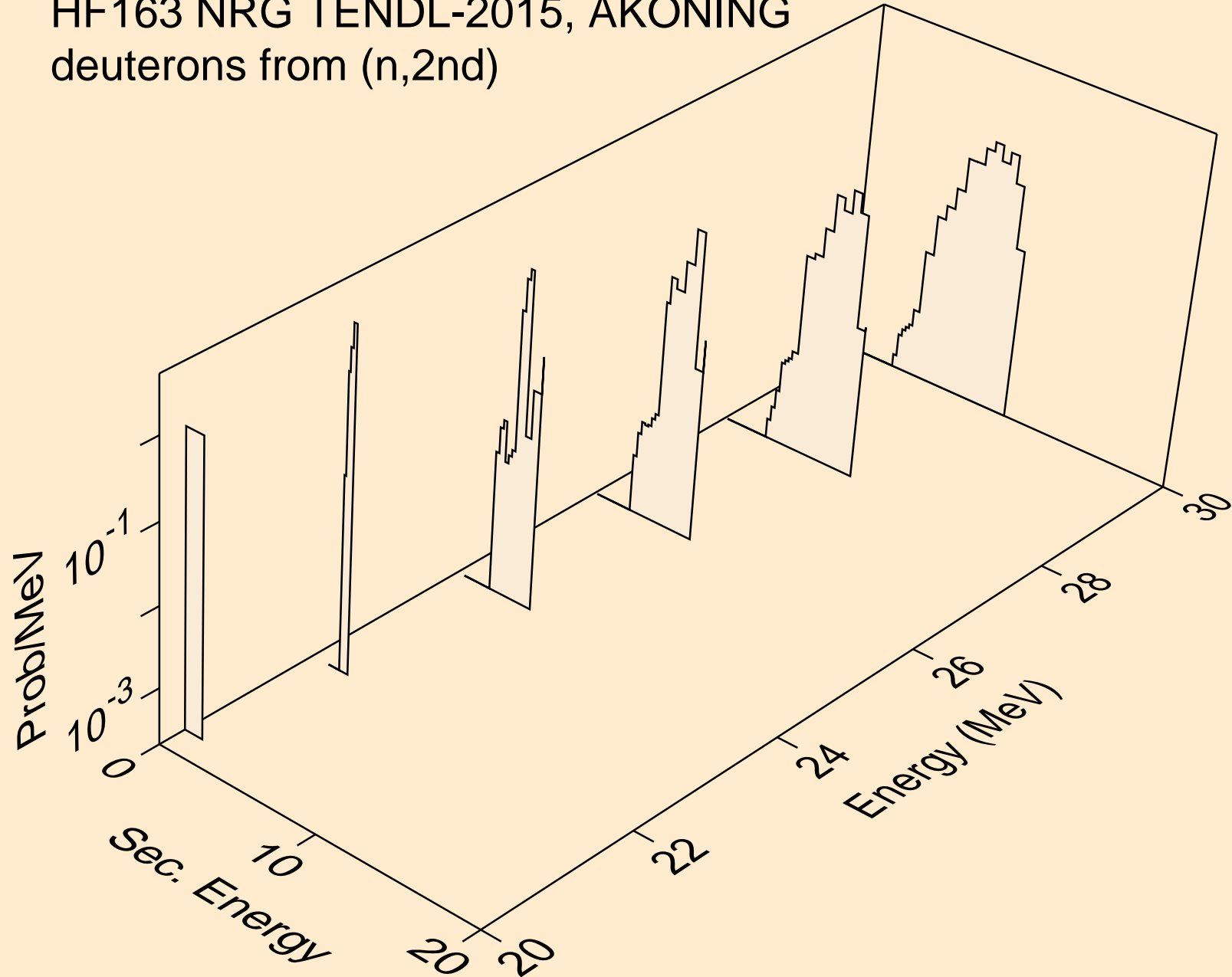
HF163 NRG TENDL-2015, AKONING  
protons from (n,pt)



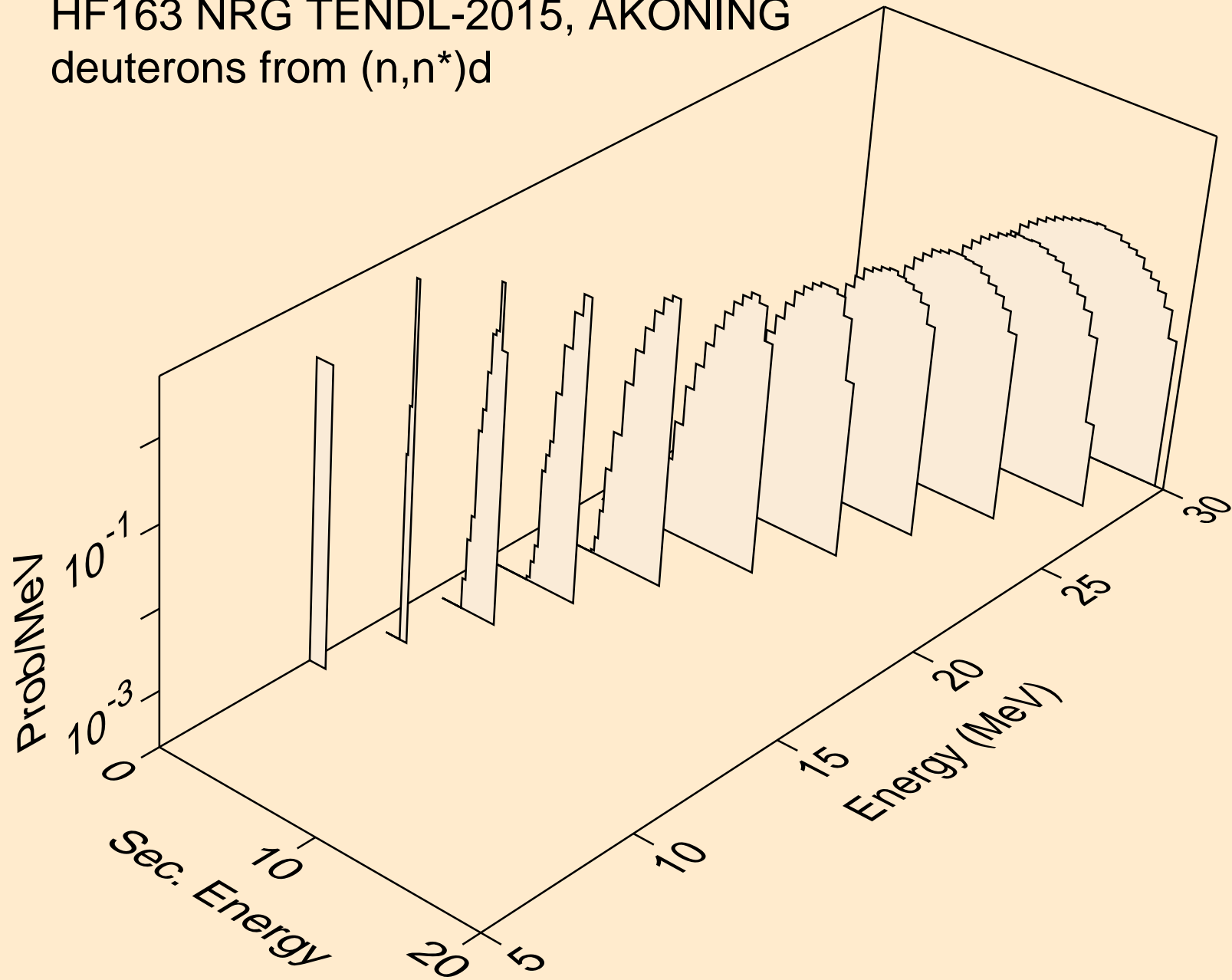
HF163 NRG TENDL-2015, AKONING  
deuterons from (n,x)



HF163 NRG TENDL-2015, AKONING  
deuterons from (n,2nd)

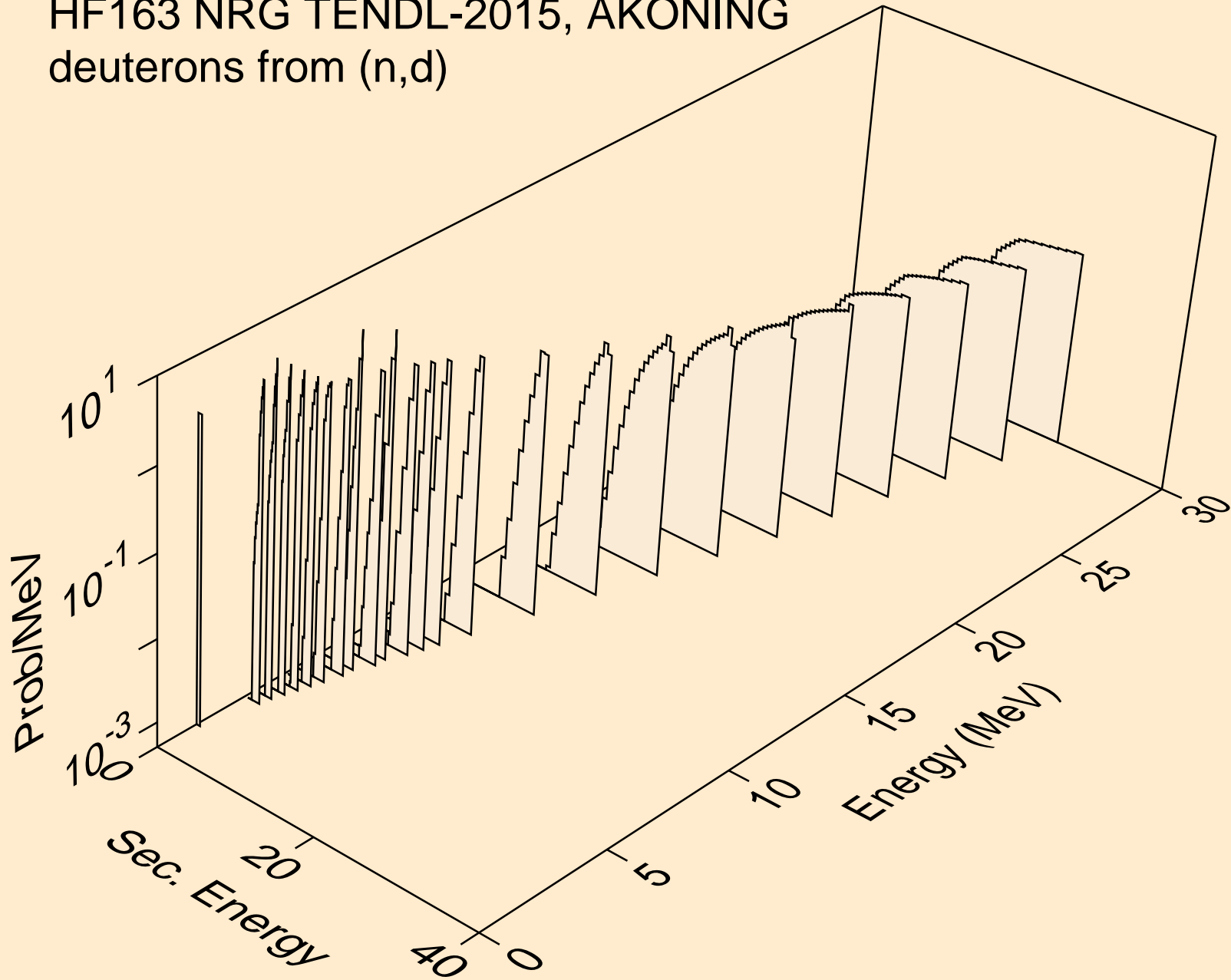


HF163 NRG TENDL-2015, AKONING  
deuterons from (n,n\*)d

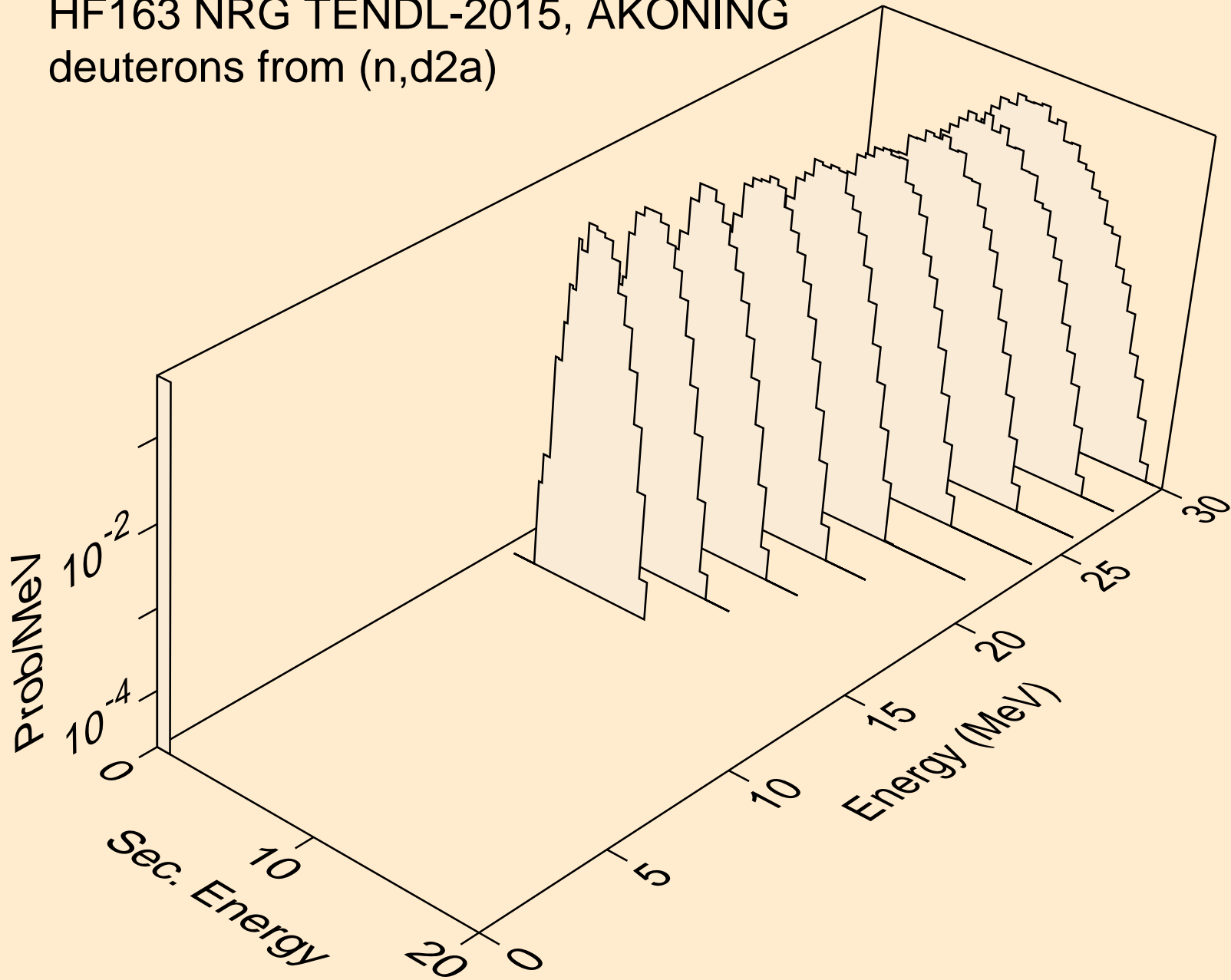




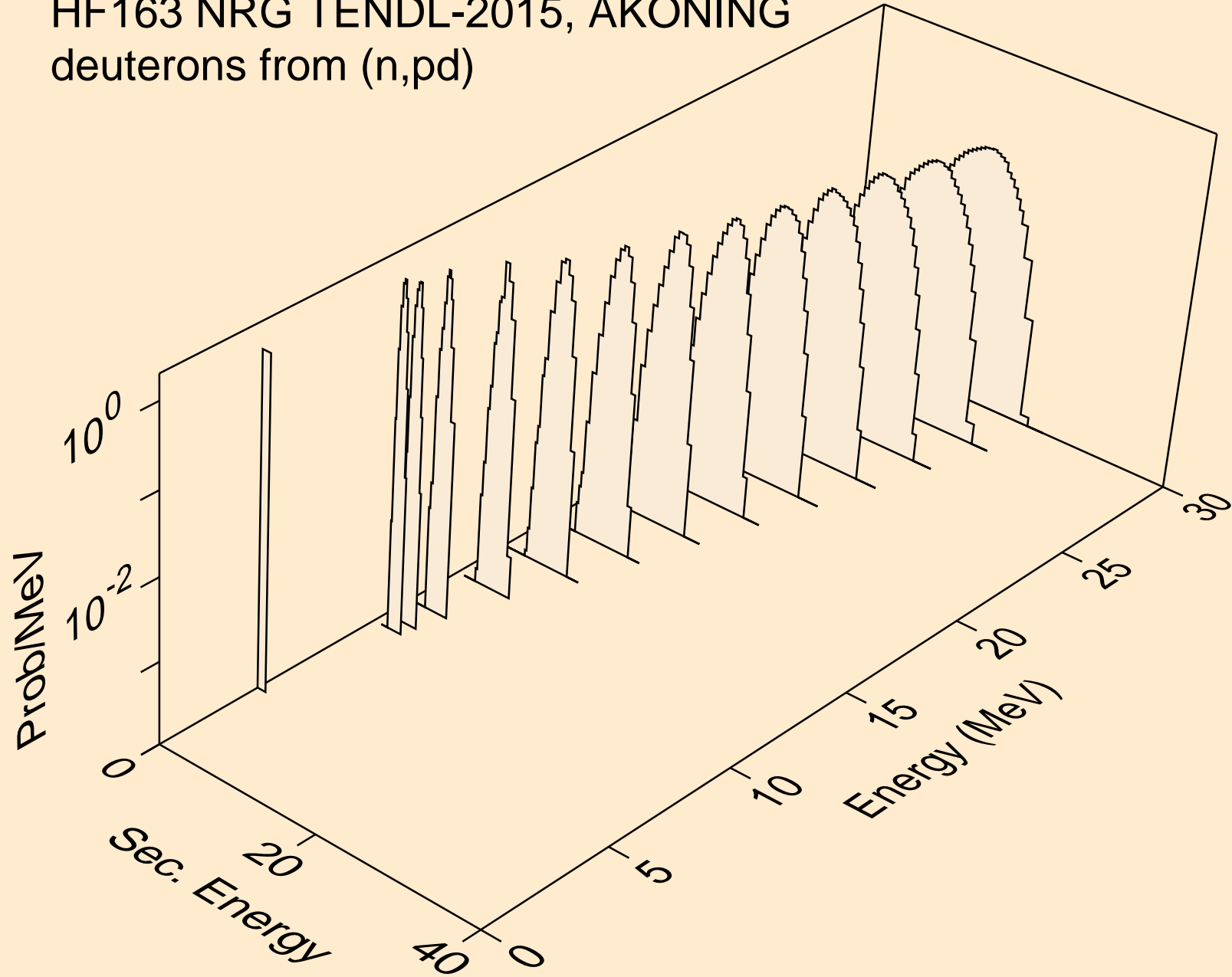
HF163 NRG TENDL-2015, AKONING  
deuterons from (n,d)



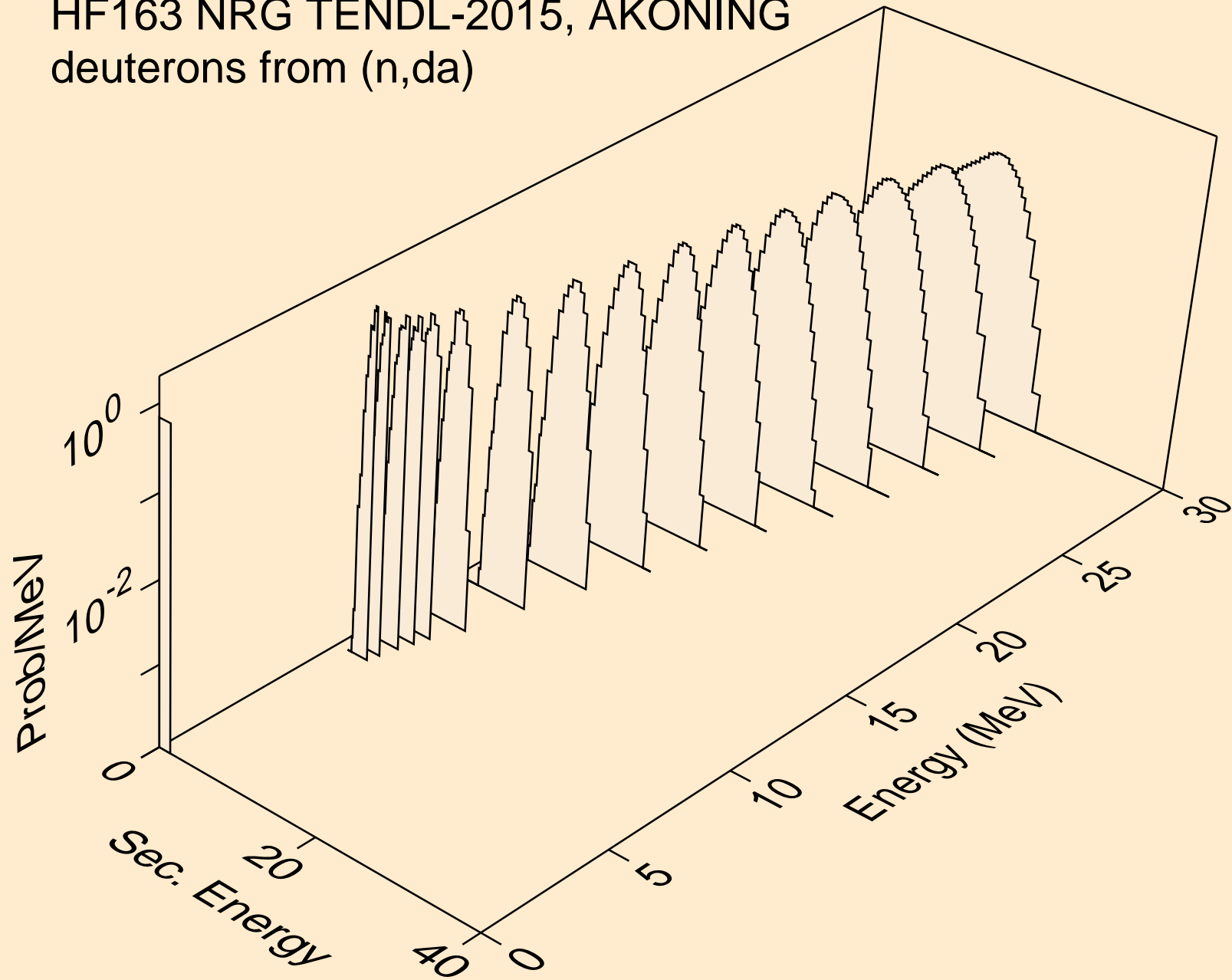
HF163 NRG TENDL-2015, AKONING  
deuterons from (n,d2a)



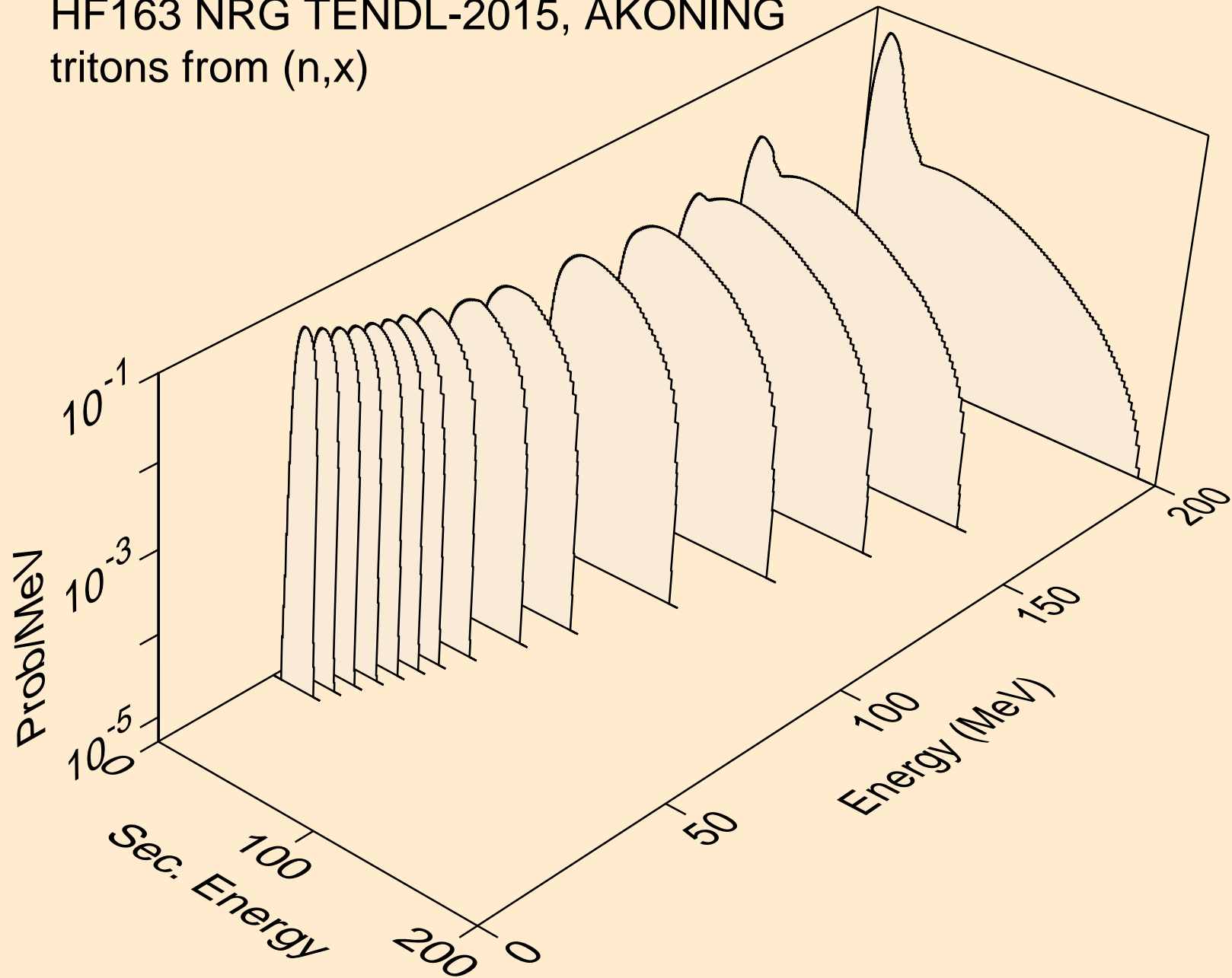
HF163 NRG TENDL-2015, AKONING  
deuterons from (n,pd)



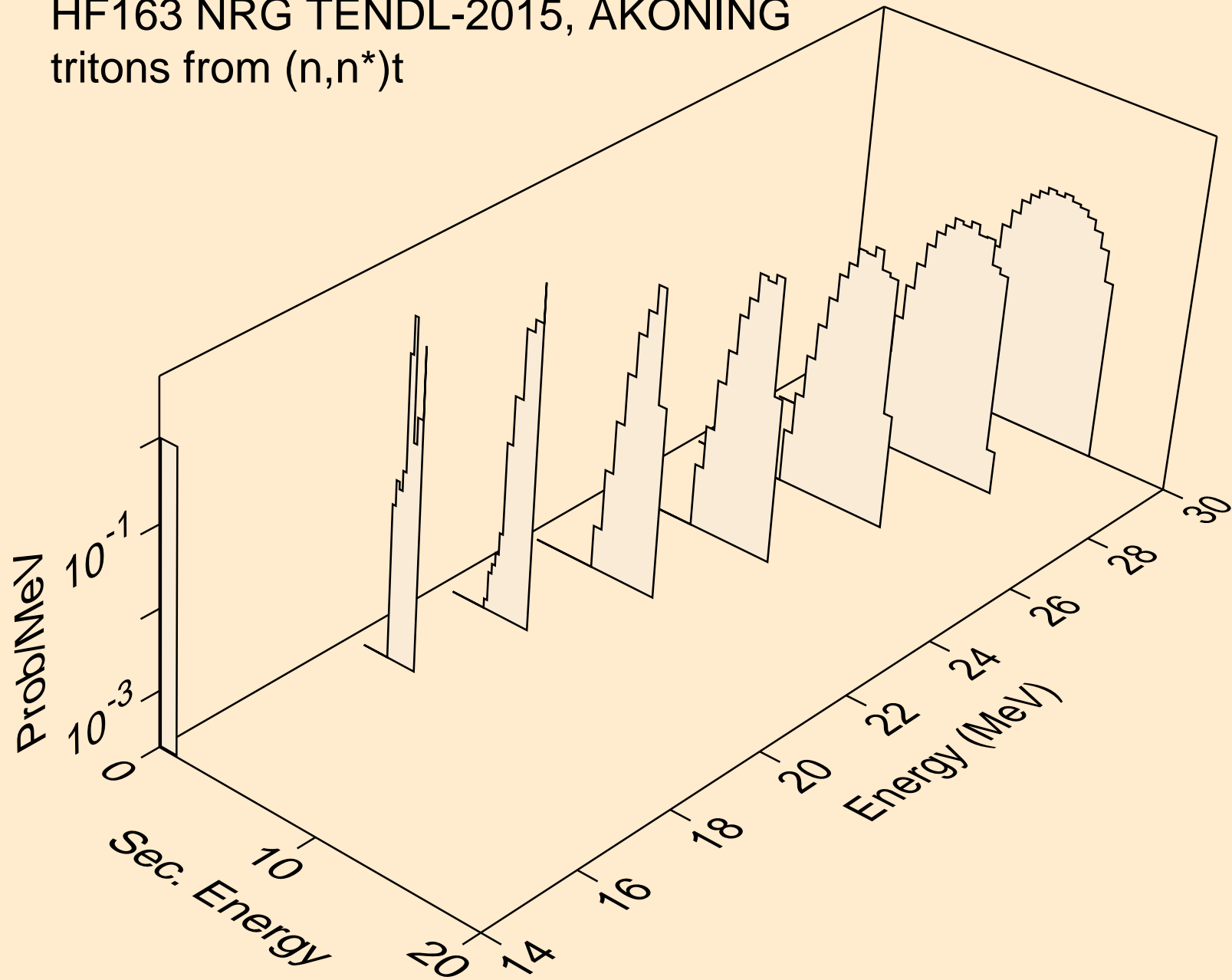
HF163 NRG TENDL-2015, AKONING  
deuterons from (n,da)



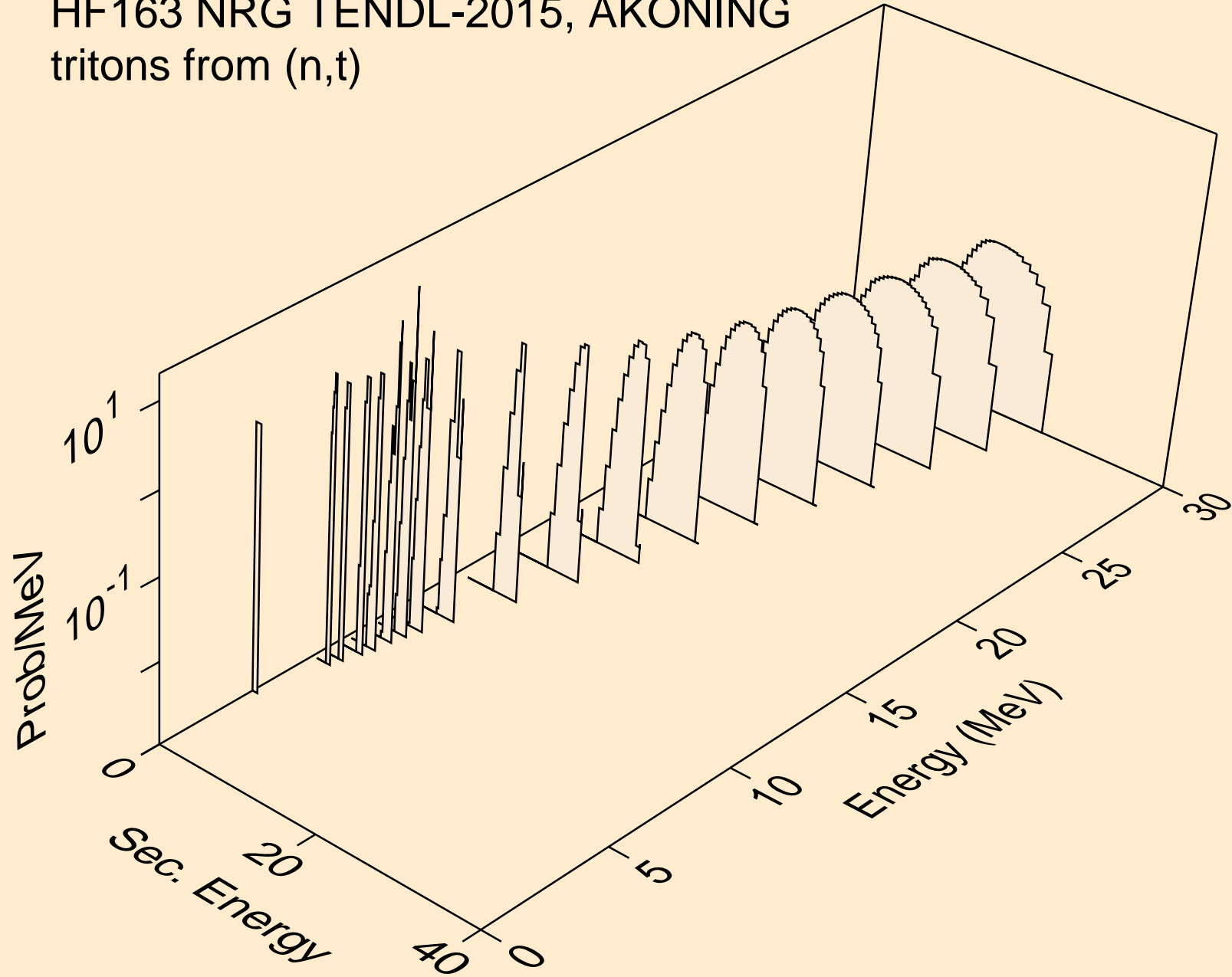
HF163 NRG TENDL-2015, AKONING  
tritons from (n,x)



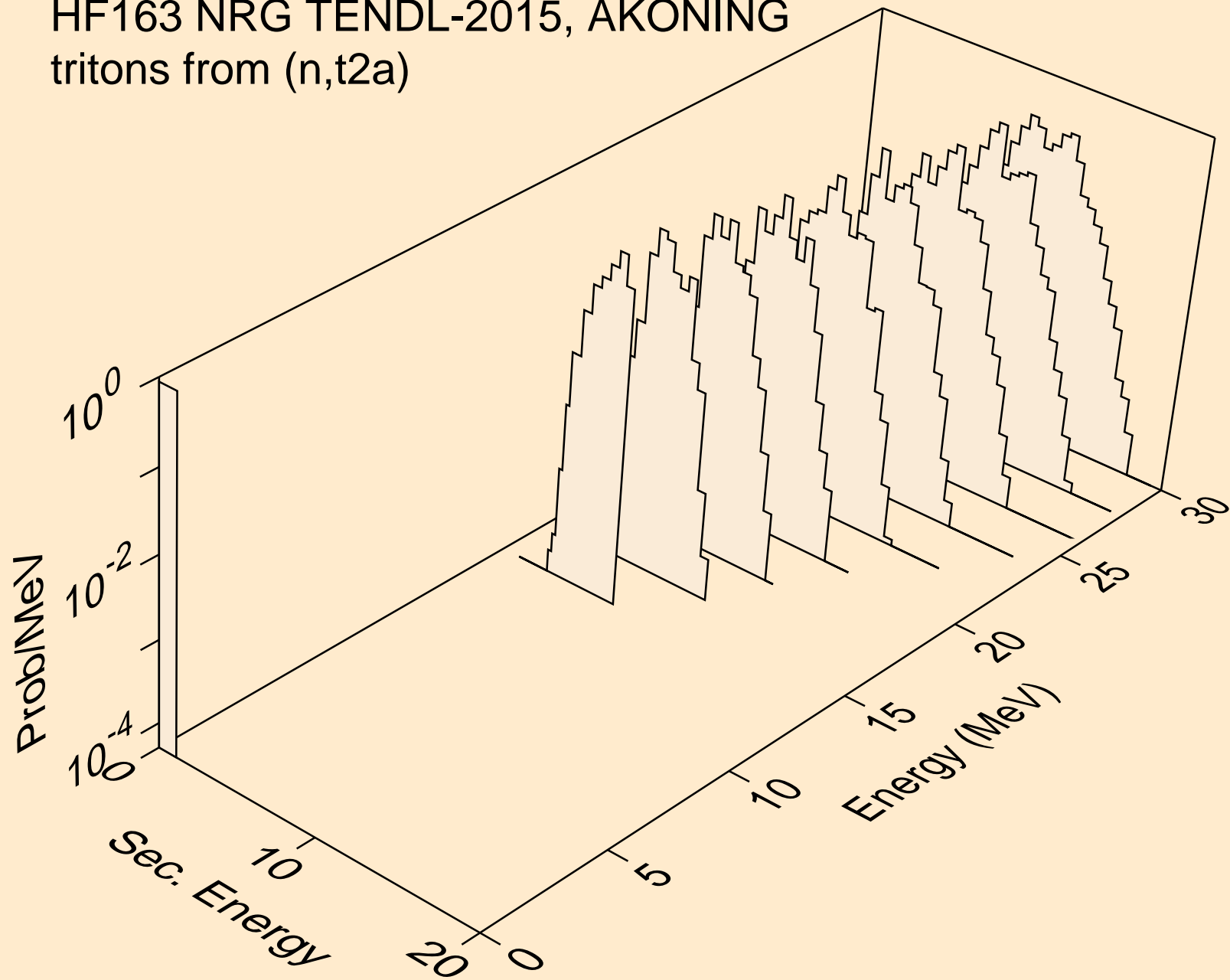
HF163 NRG TENDL-2015, AKONING  
tritons from (n,n\*)t



HF163 NRG TENDL-2015, AKONING  
tritons from (n,t)

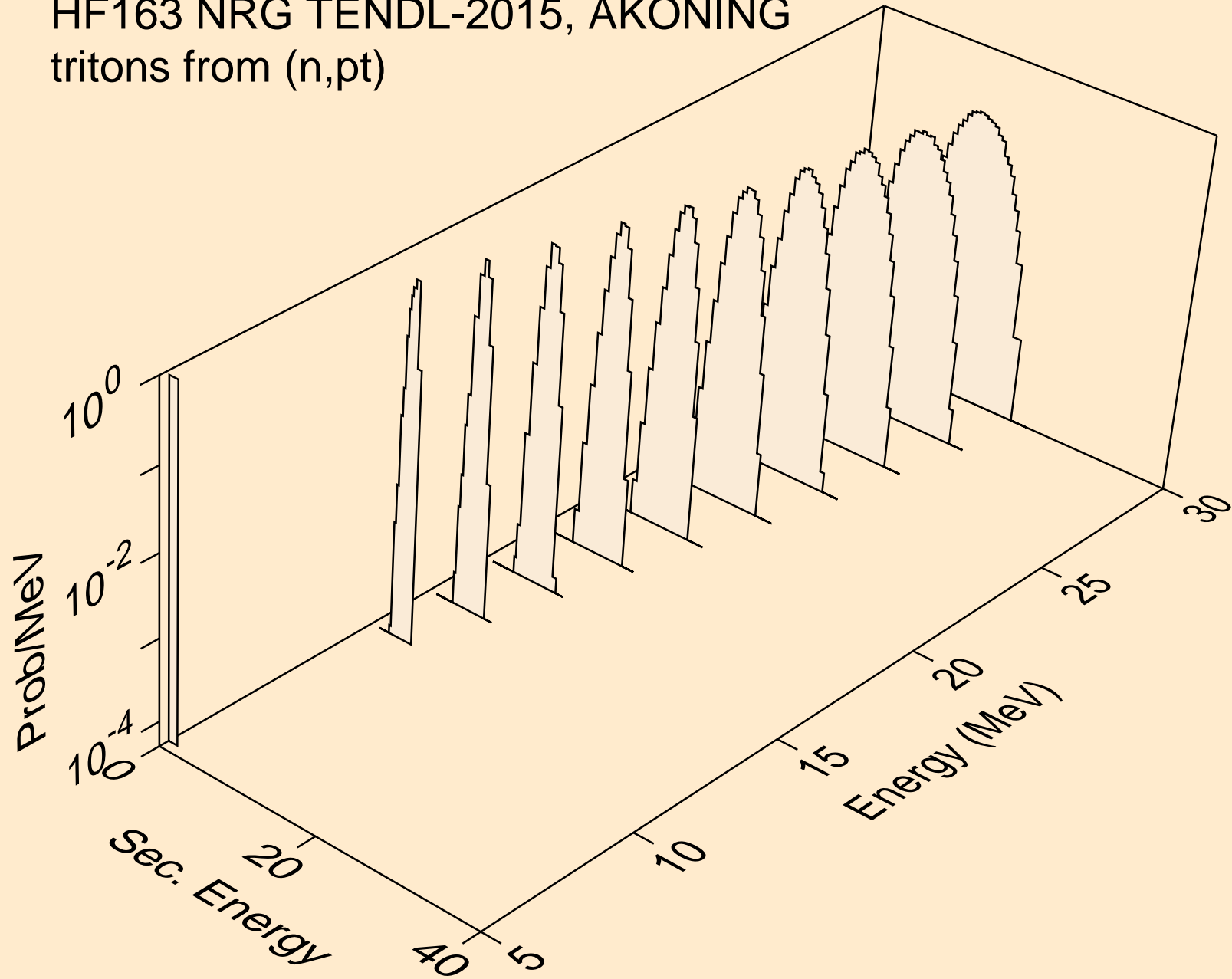


HF163 NRG TENDL-2015, AKONING  
tritons from (n,t2a)

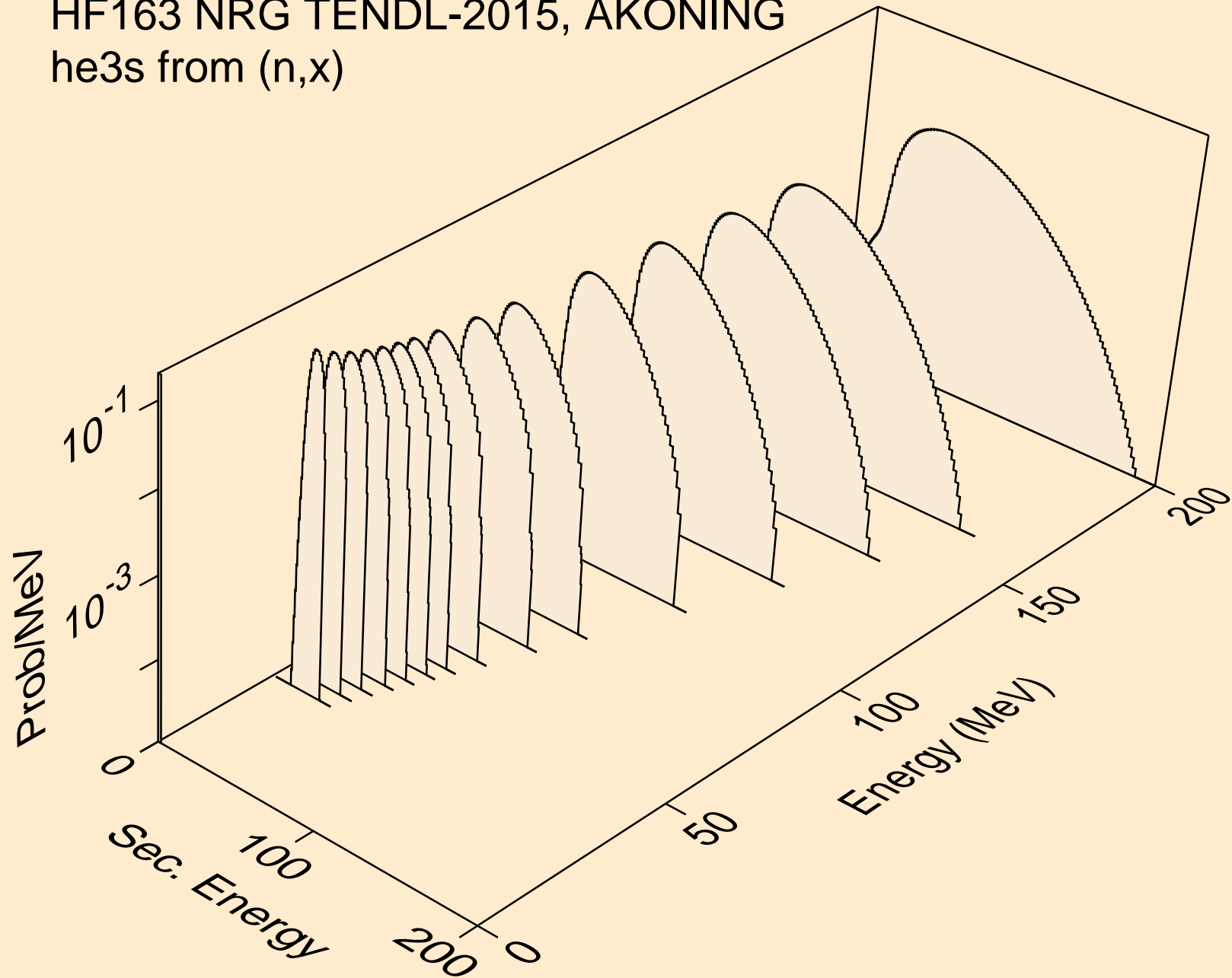




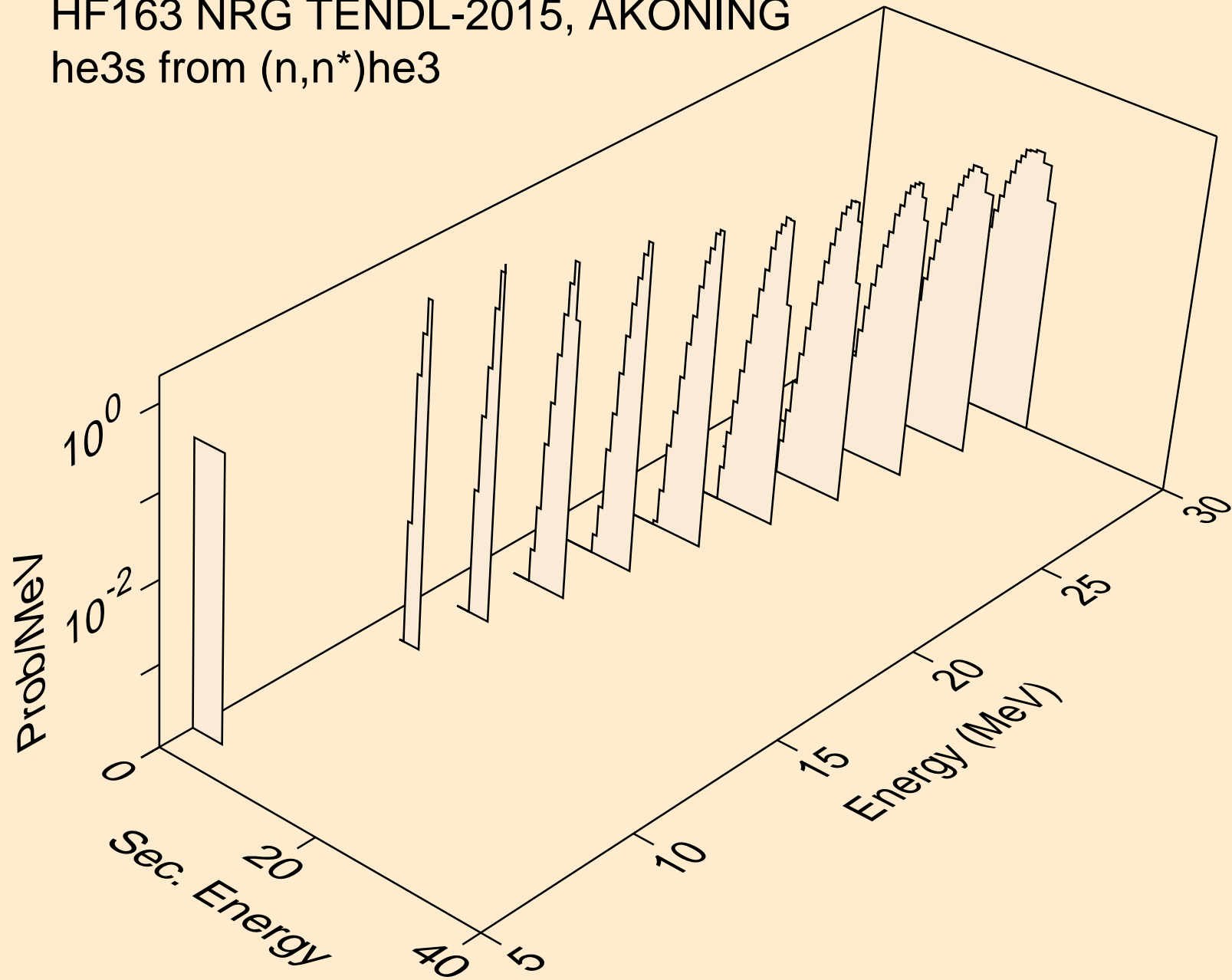
HF163 NRG TENDL-2015, AKONING  
tritons from (n,pt)



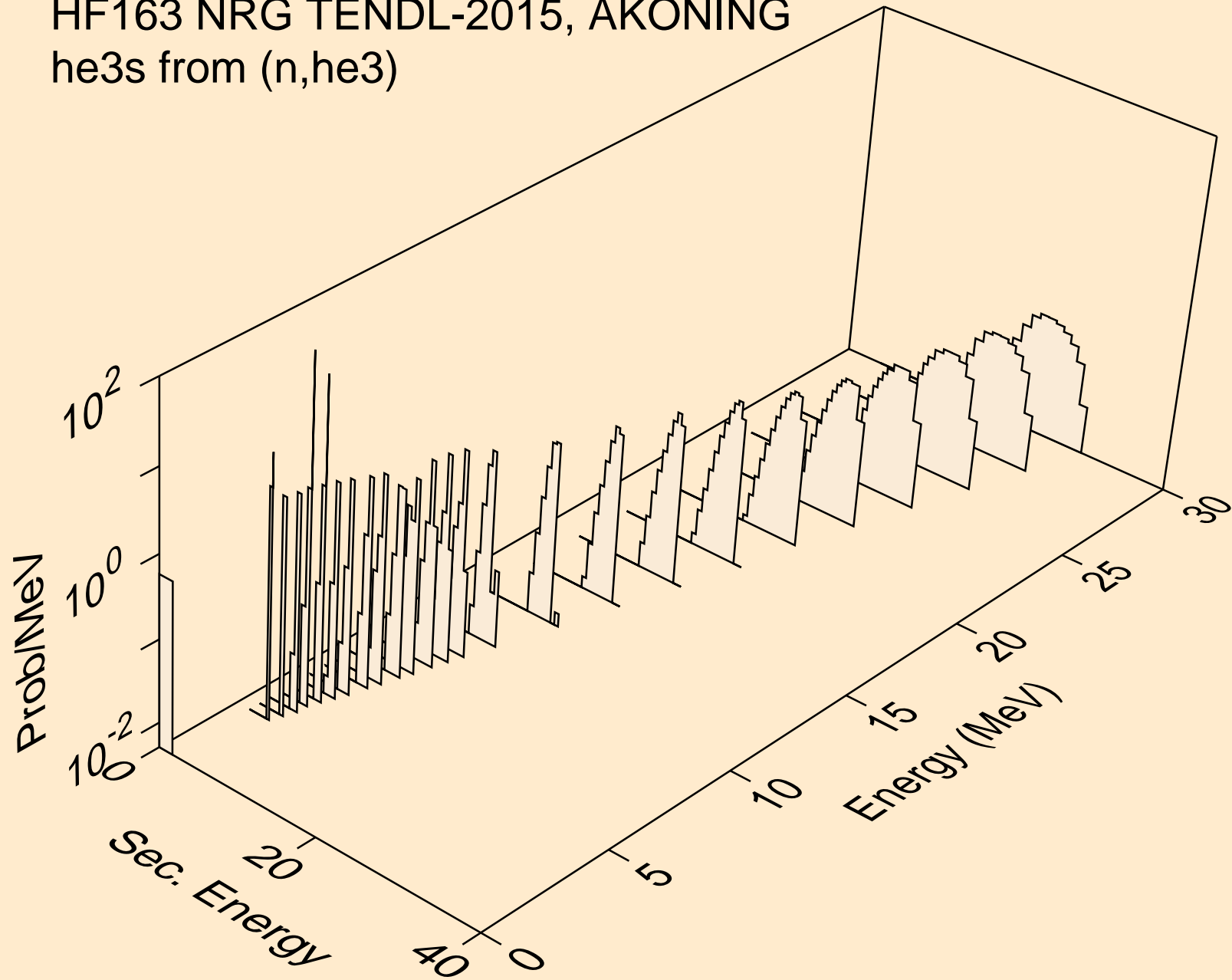
HF163 NRG TENDL-2015, AKONING  
he3s from (n,x)



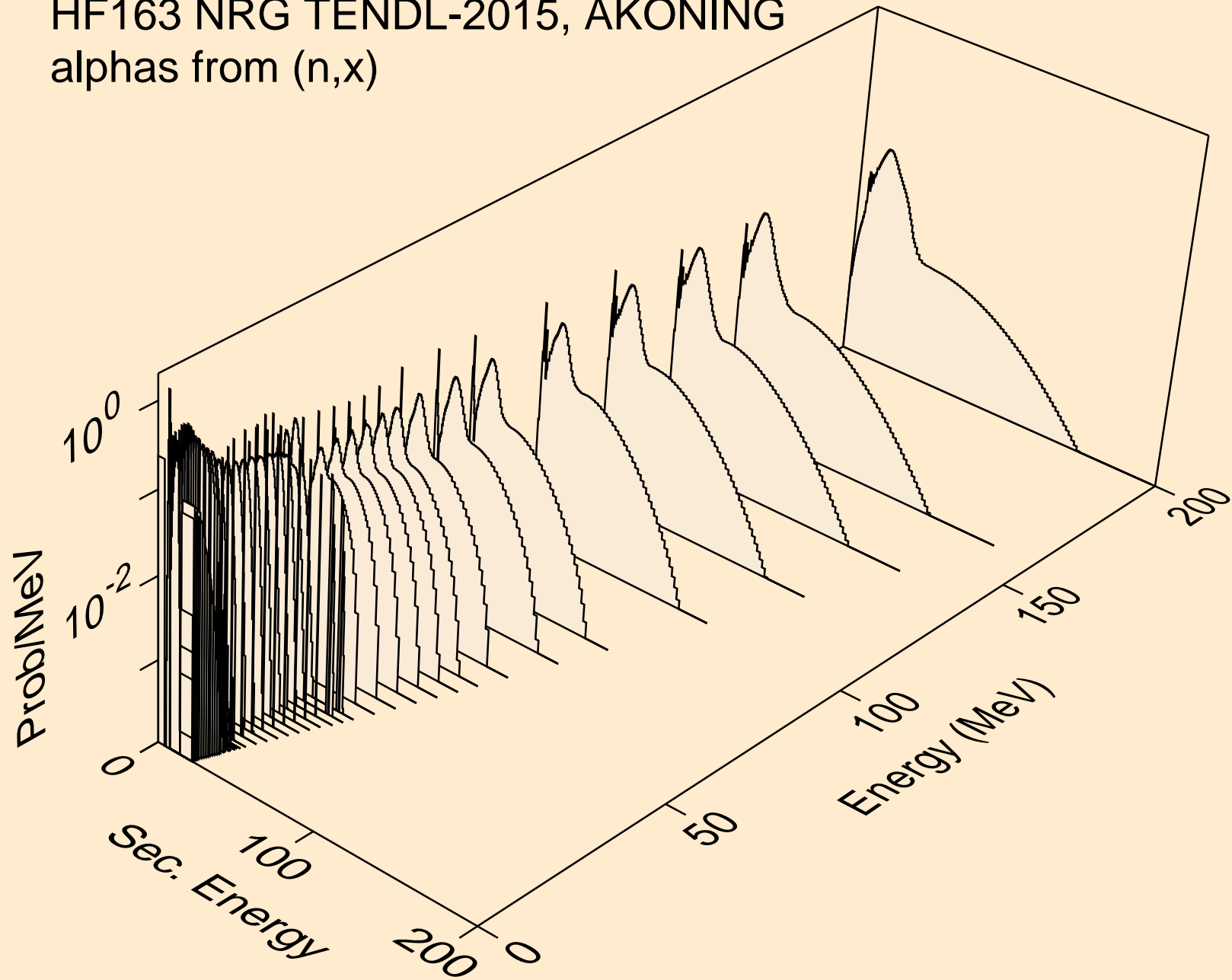
HF163 NRG TENDL-2015, AKONING  
he3s from (n,n\*)he3



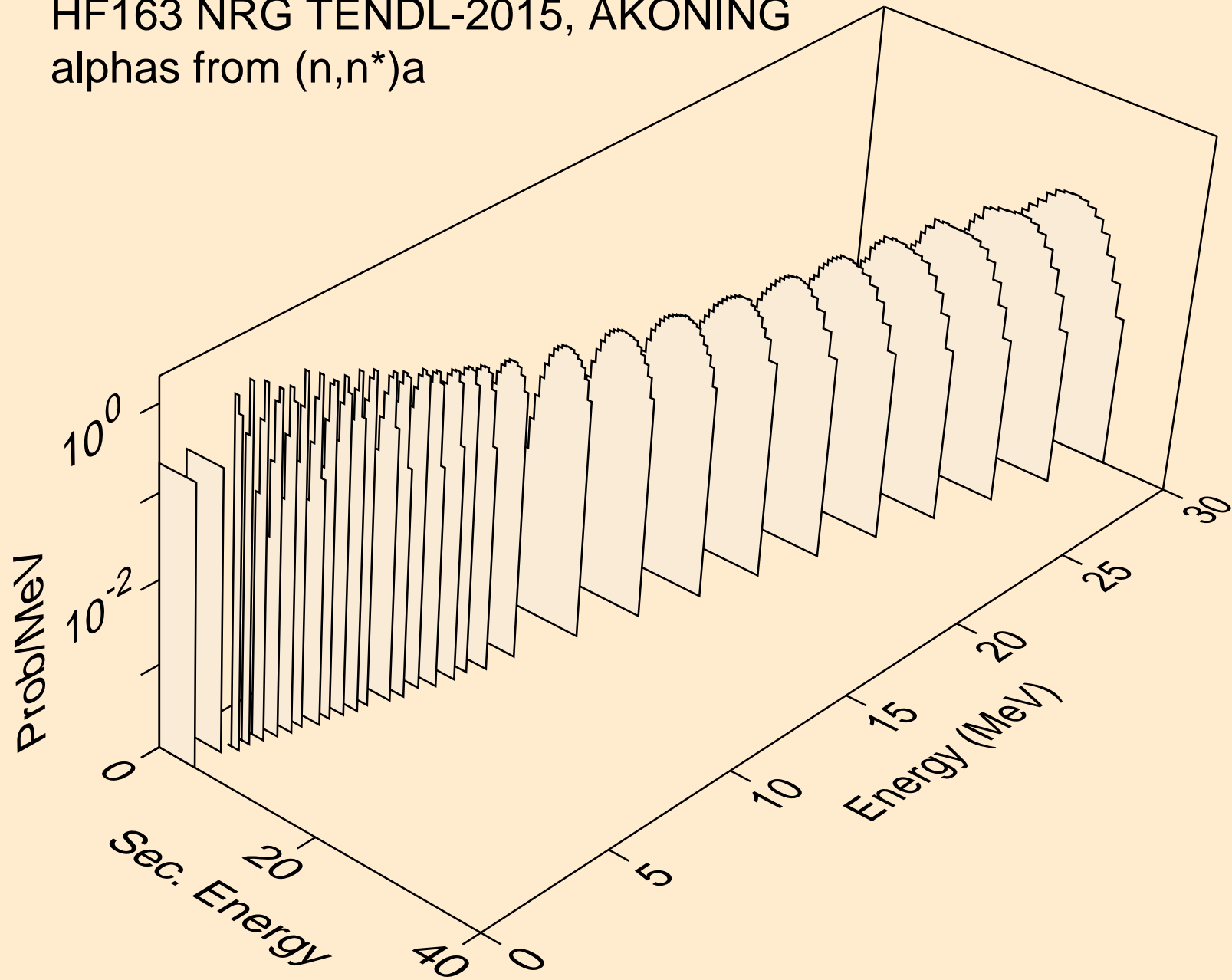
HF163 NRG TENDL-2015, AKONING  
he3s from (n,he3)



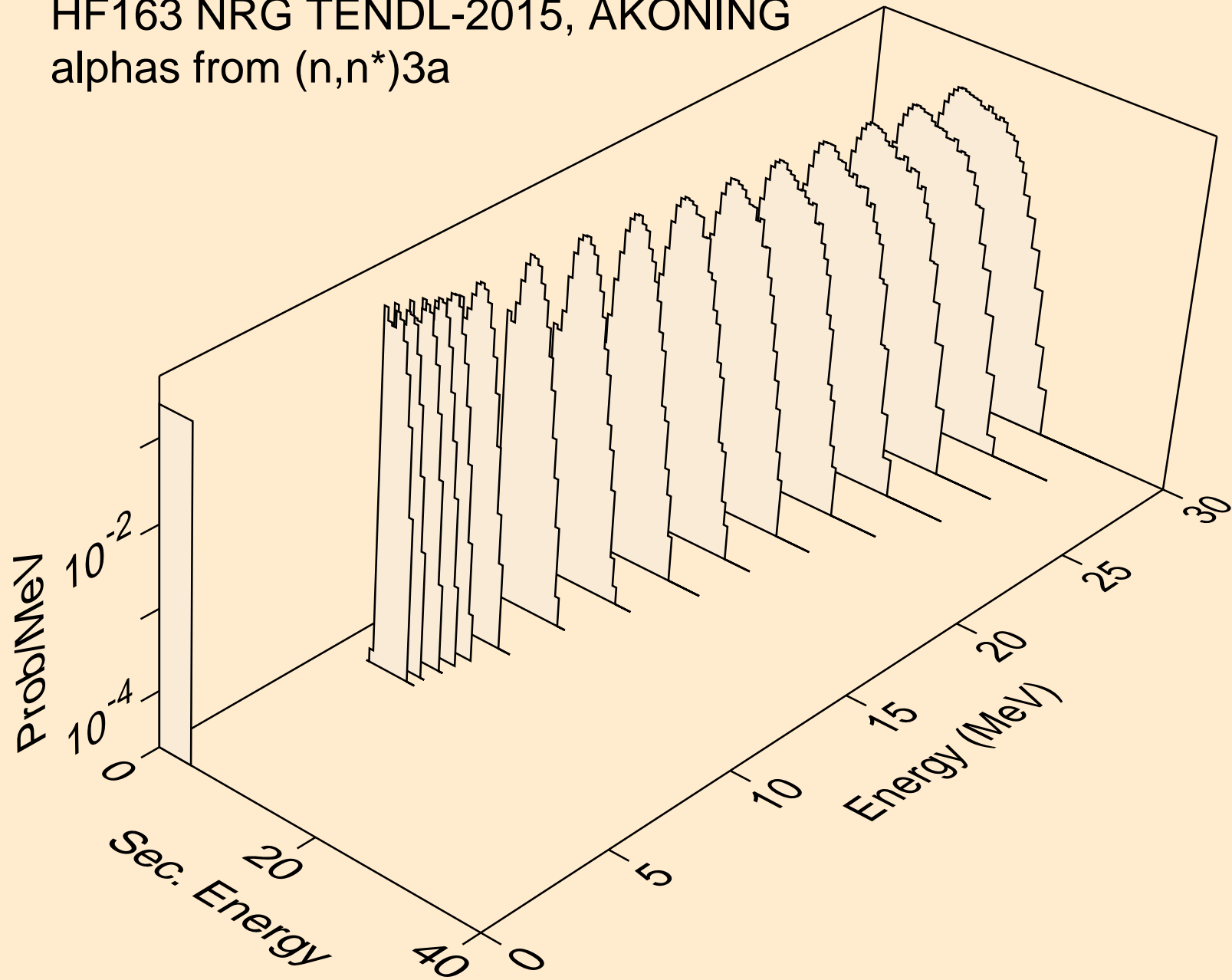
HF163 NRG TENDL-2015, AKONING  
alphas from (n,x)



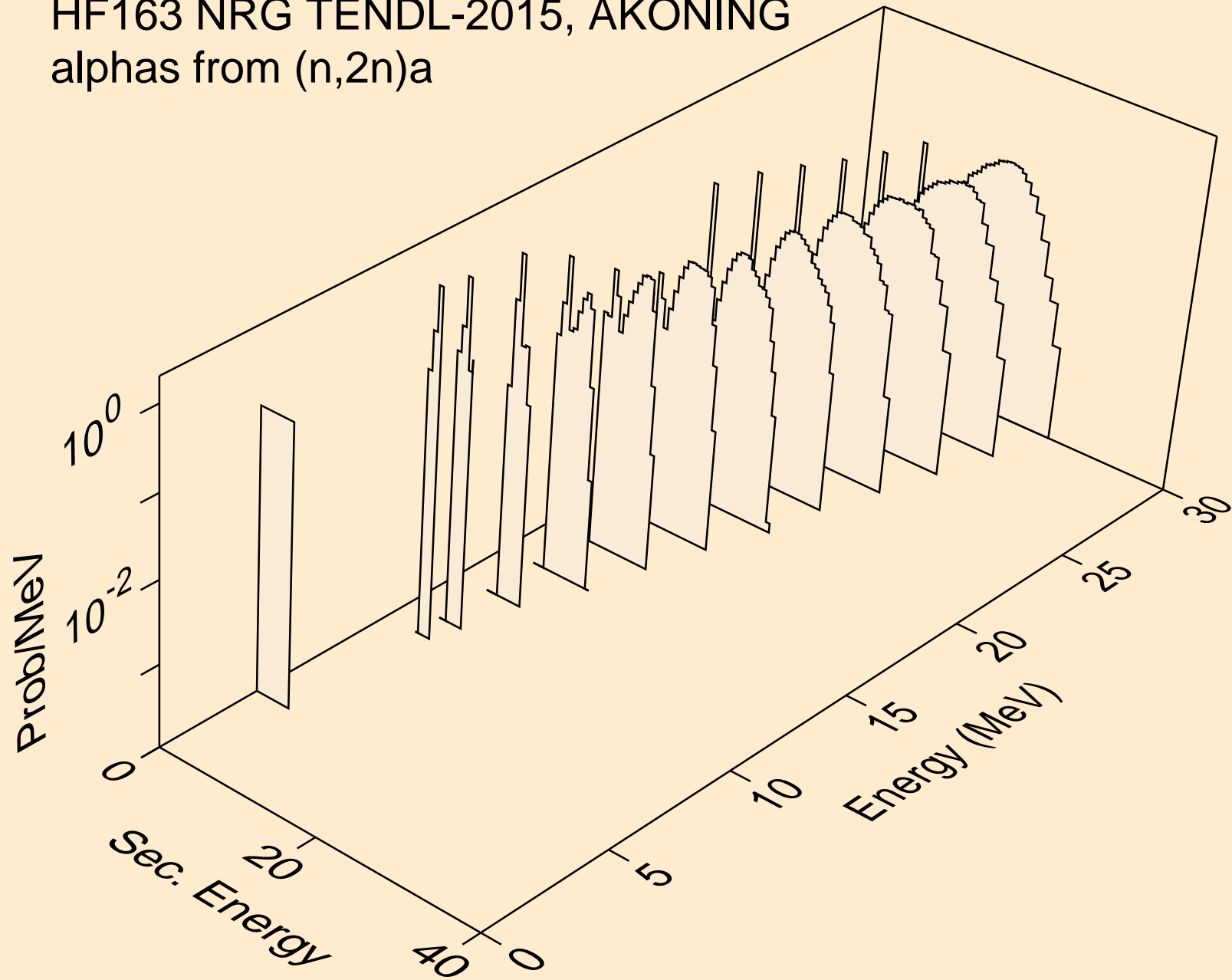
HF163 NRG TENDL-2015, AKONING  
alphas from (n,n\*)a



HF163 NRG TENDL-2015, AKONING  
alphas from (n,n\*)3a

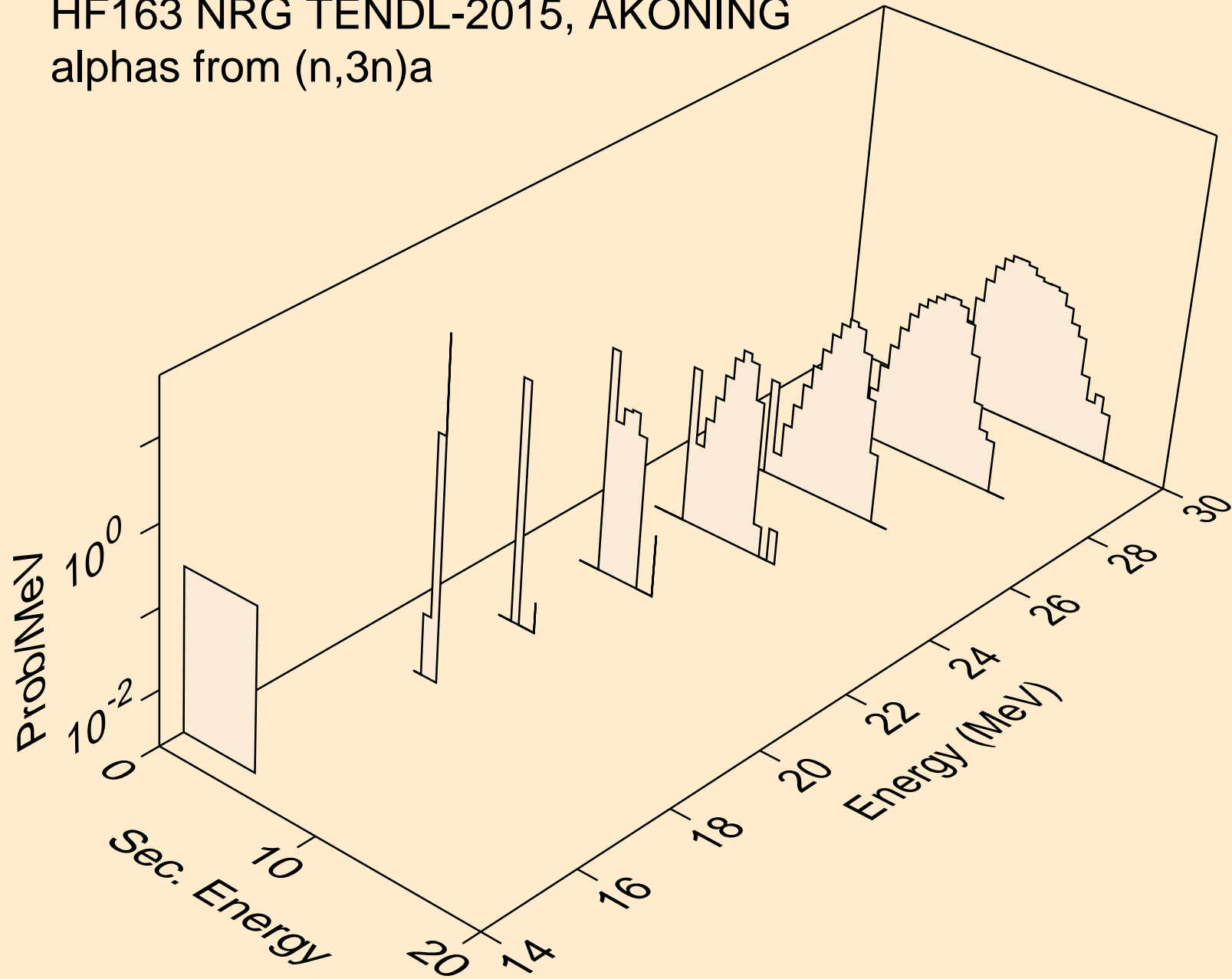


HF163 NRG TENDL-2015, AKONING  
alphas from (n,2n)a

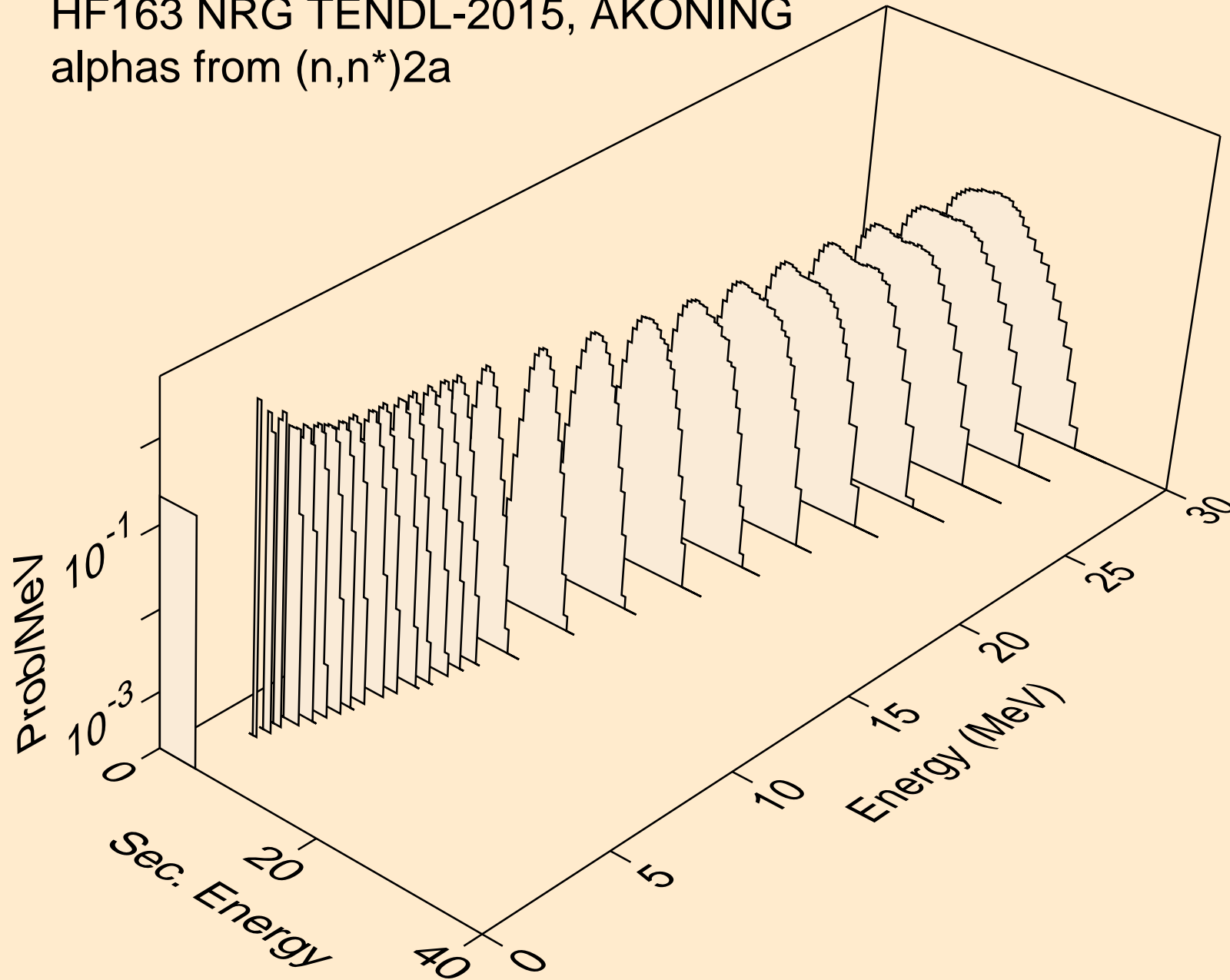




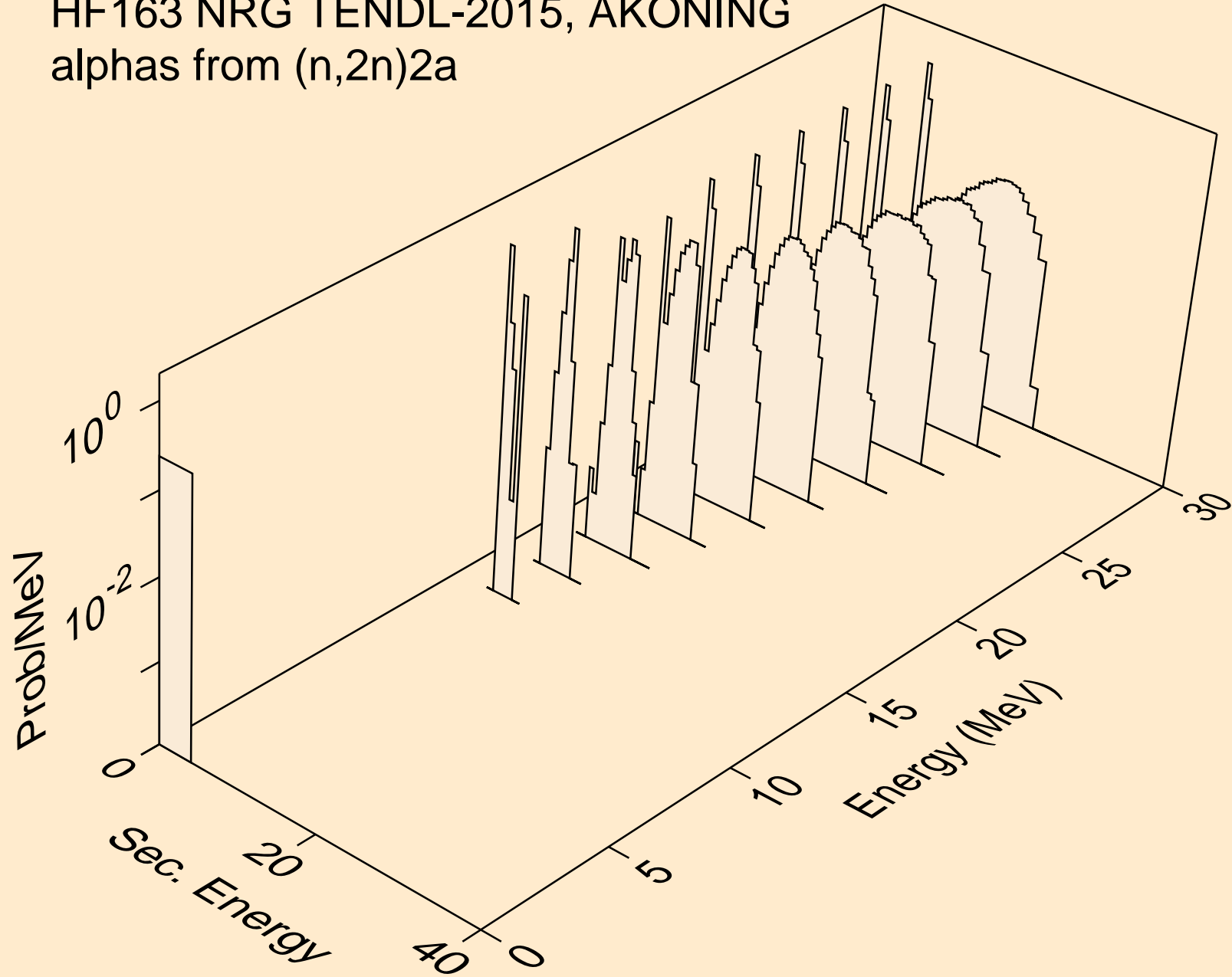
HF163 NRG TENDL-2015, AKONING  
alphas from (n,3n)a



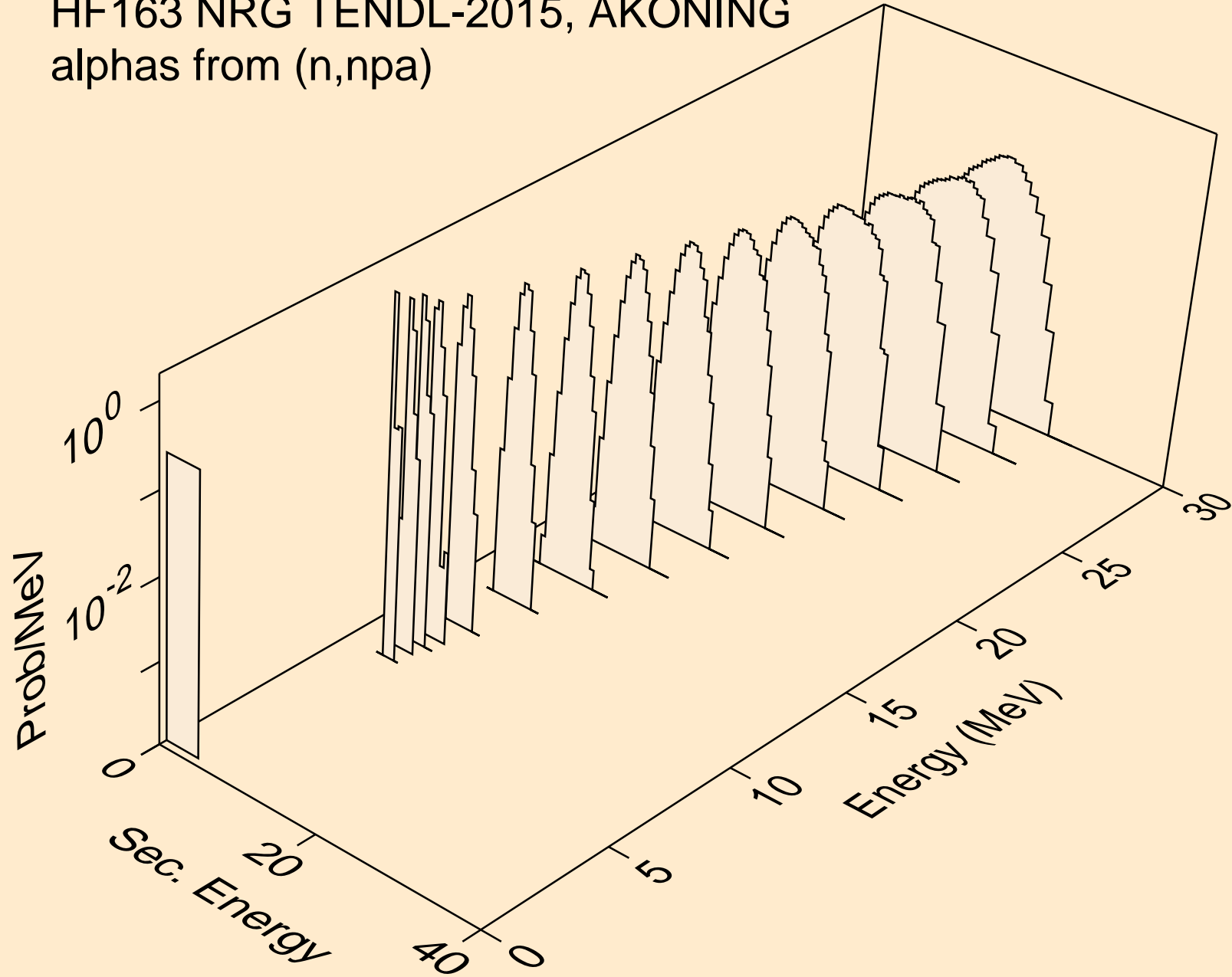
HF163 NRG TENDL-2015, AKONING  
alphas from (n,n\*)2a



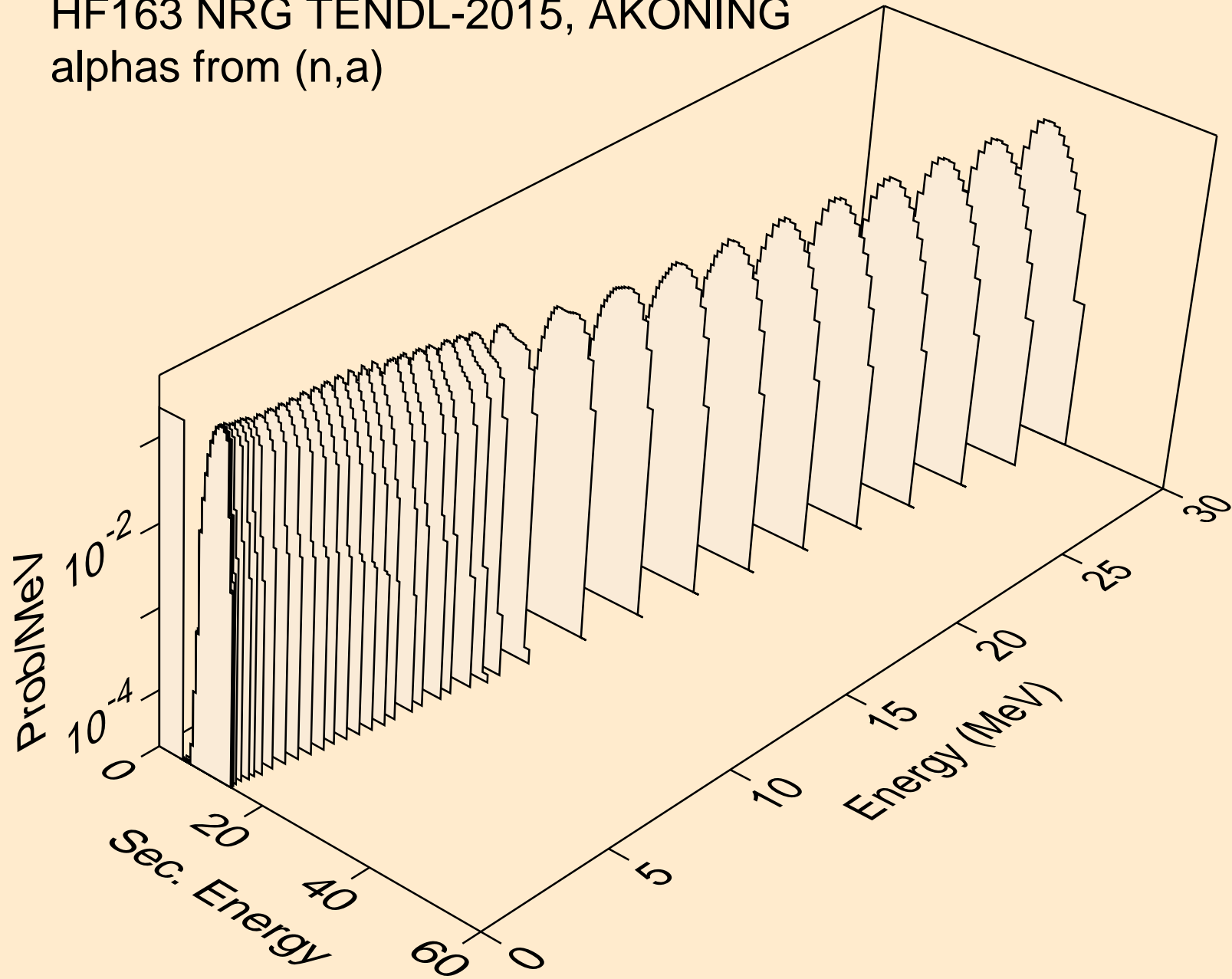
HF163 NRG TENDL-2015, AKONING  
alphas from (n,2n)2a



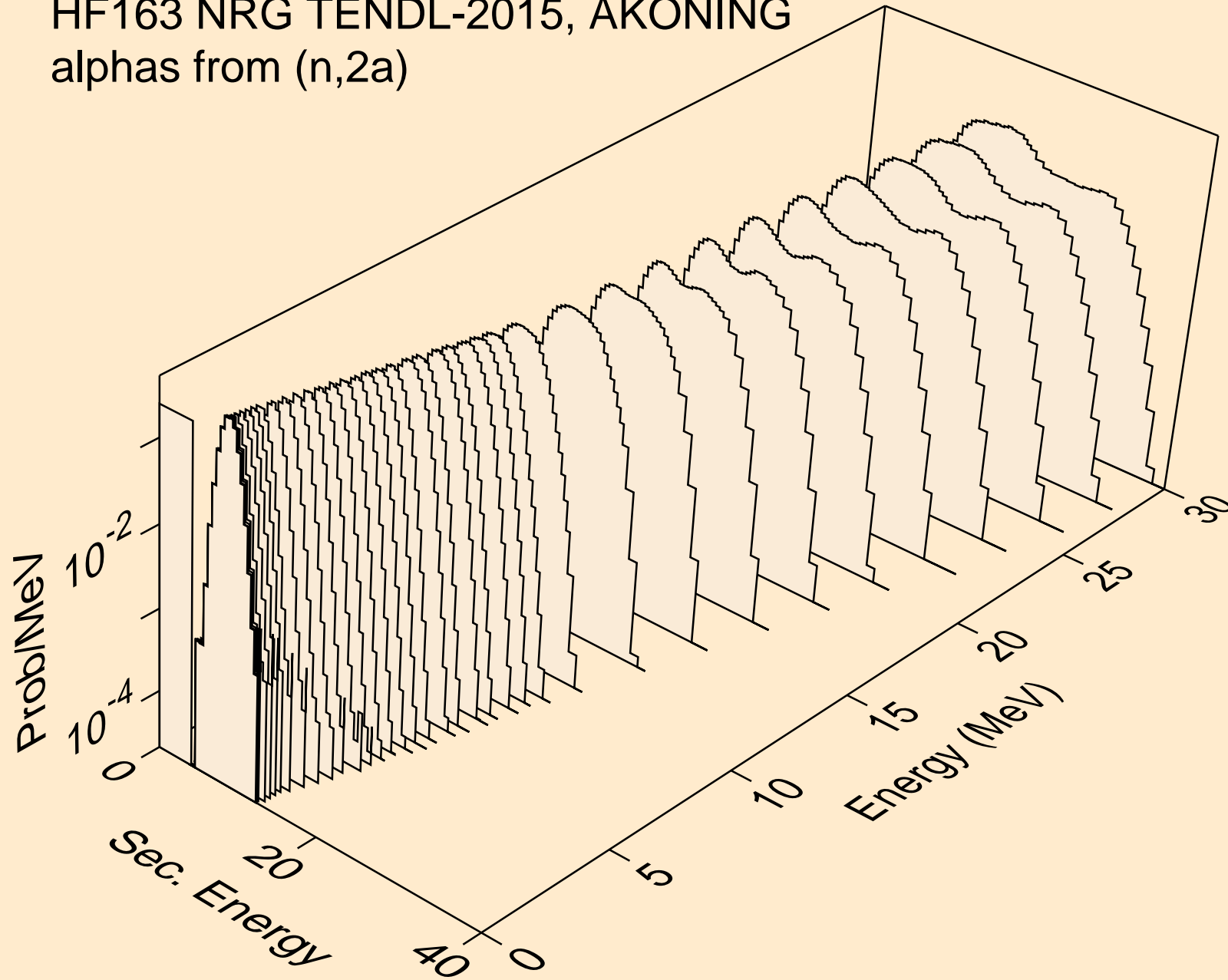
HF163 NRG TENDL-2015, AKONING  
alphas from (n,npa)



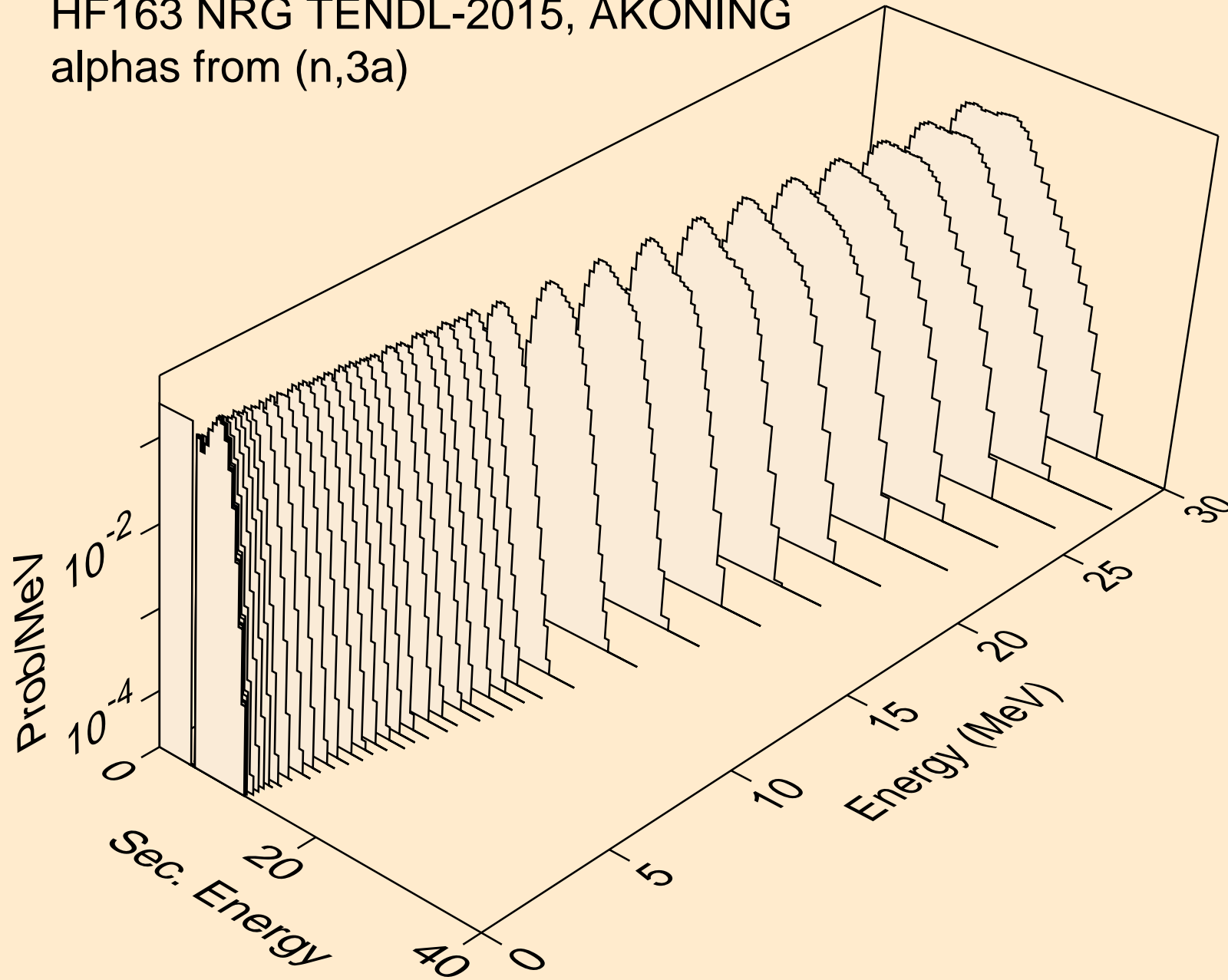
HF163 NRG TENDL-2015, AKONING  
alphas from (n,a)



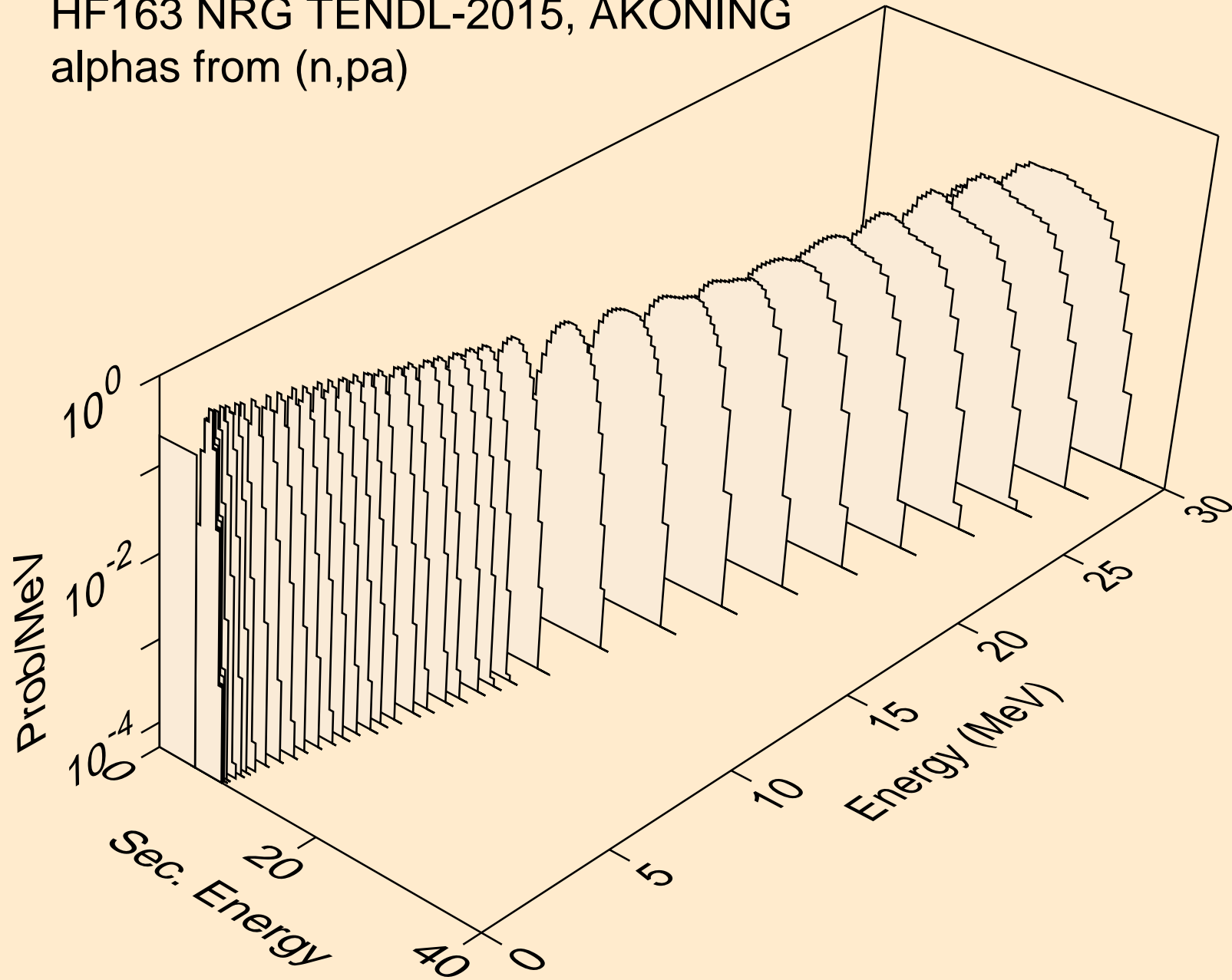
HF163 NRG TENDL-2015, AKONING  
alphas from (n,2a)



HF163 NRG TENDL-2015, AKONING  
alphas from (n,3a)

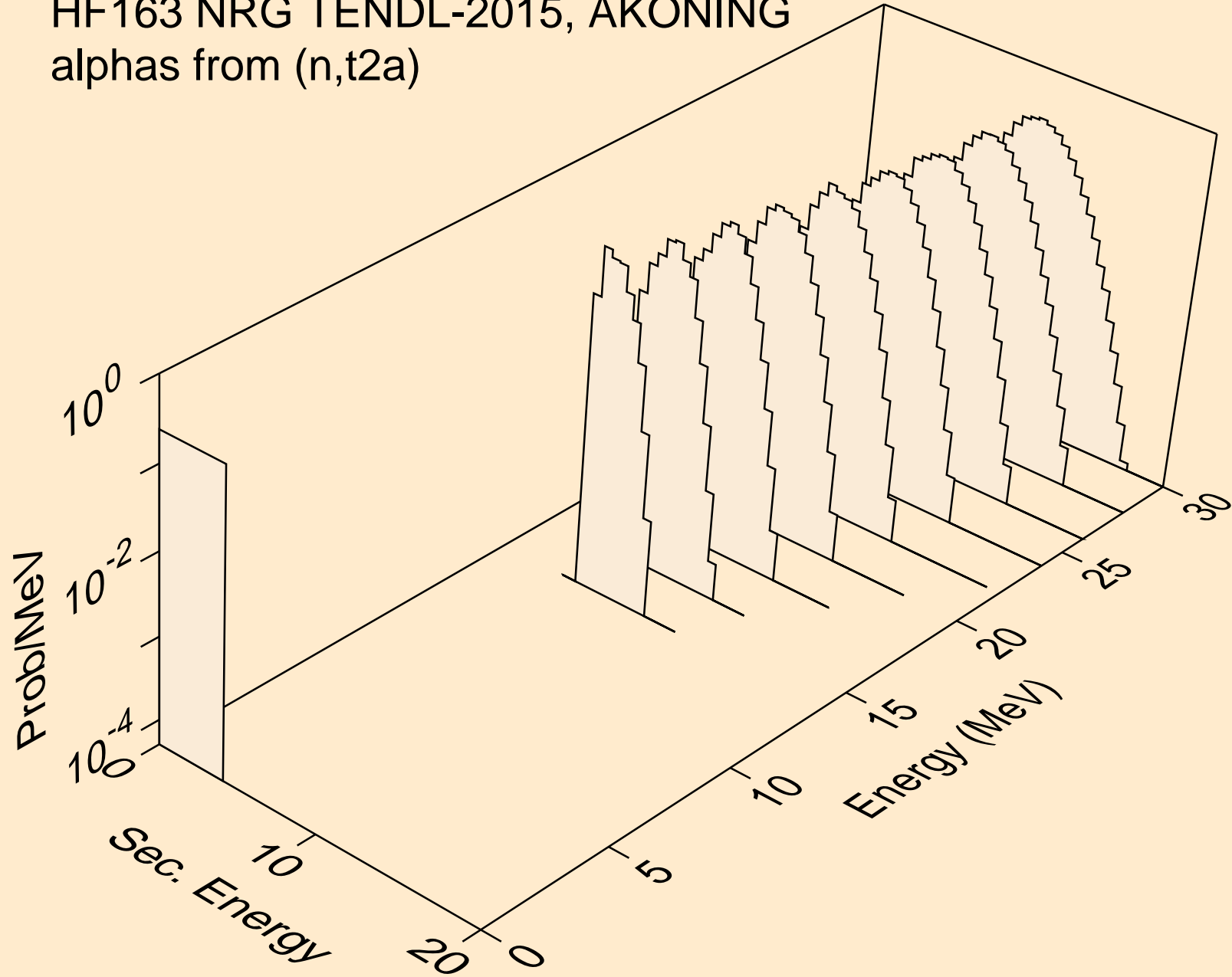


HF163 NRG TENDL-2015, AKONING  
alphas from (n,pa)

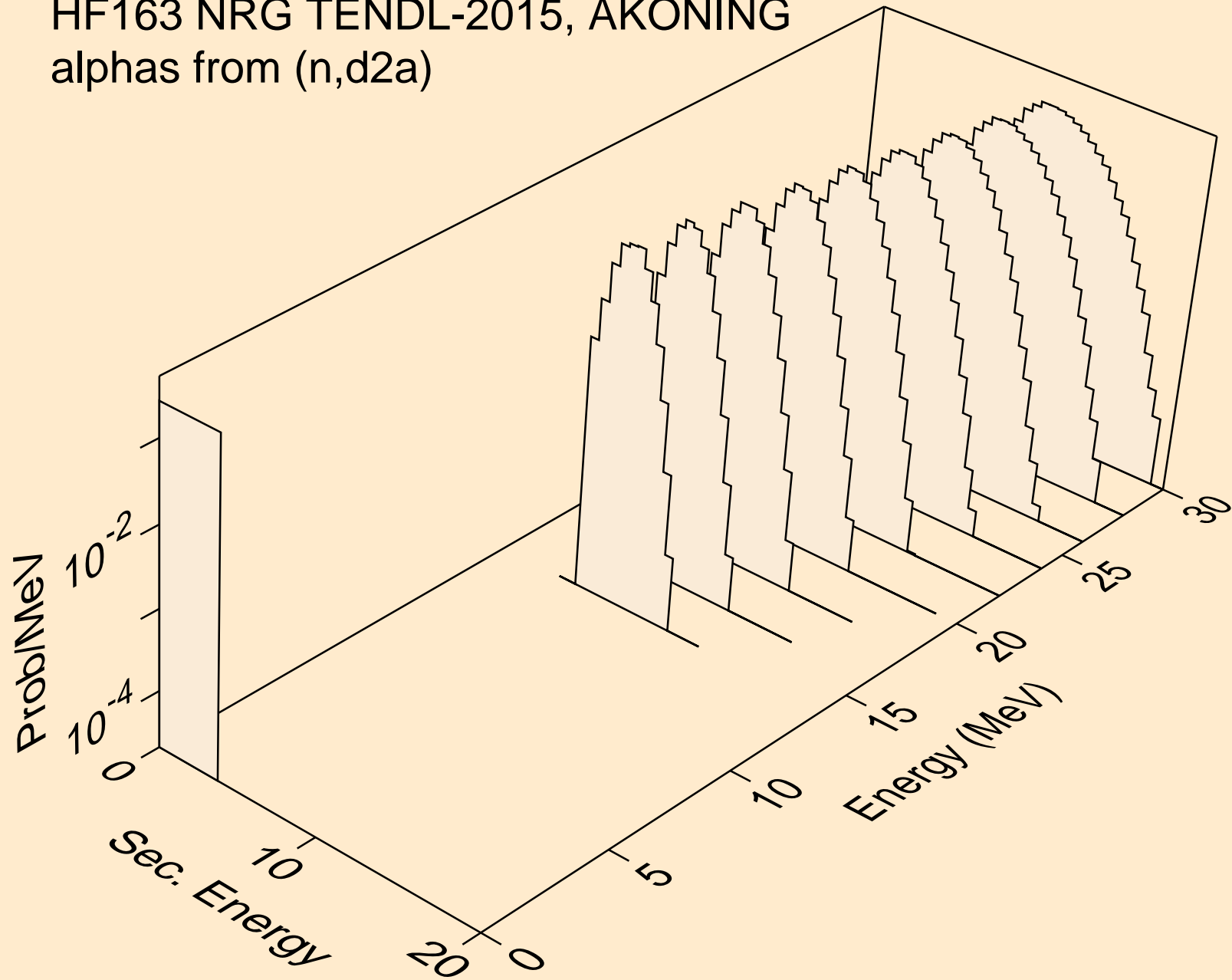




HF163 NRG TENDL-2015, AKONING  
alphas from (n,t2a)



HF163 NRG TENDL-2015, AKONING  
alphas from (n,d2a)



HF163 NRG TENDL-2015, AKONING  
alphas from (n,da)

