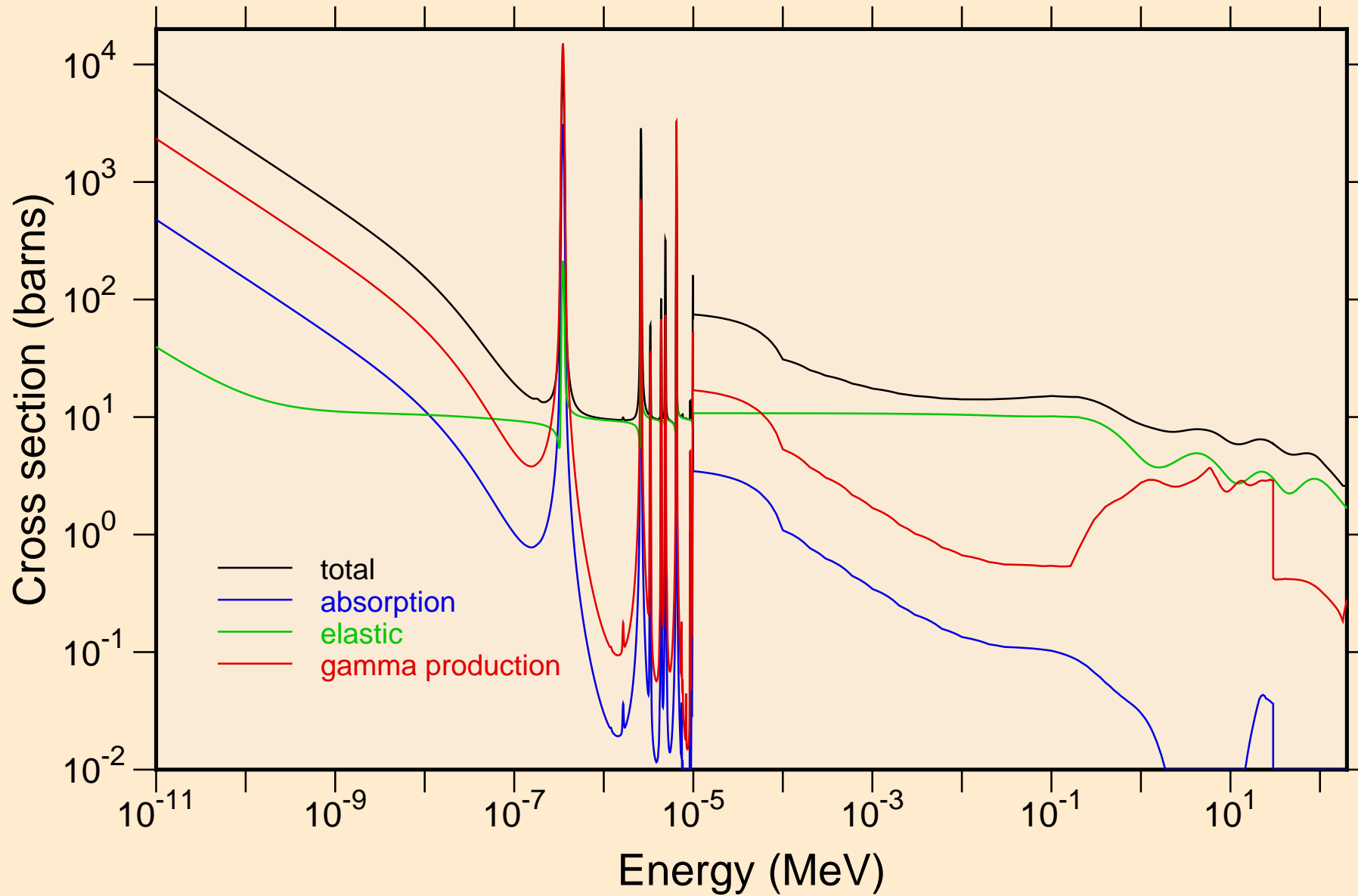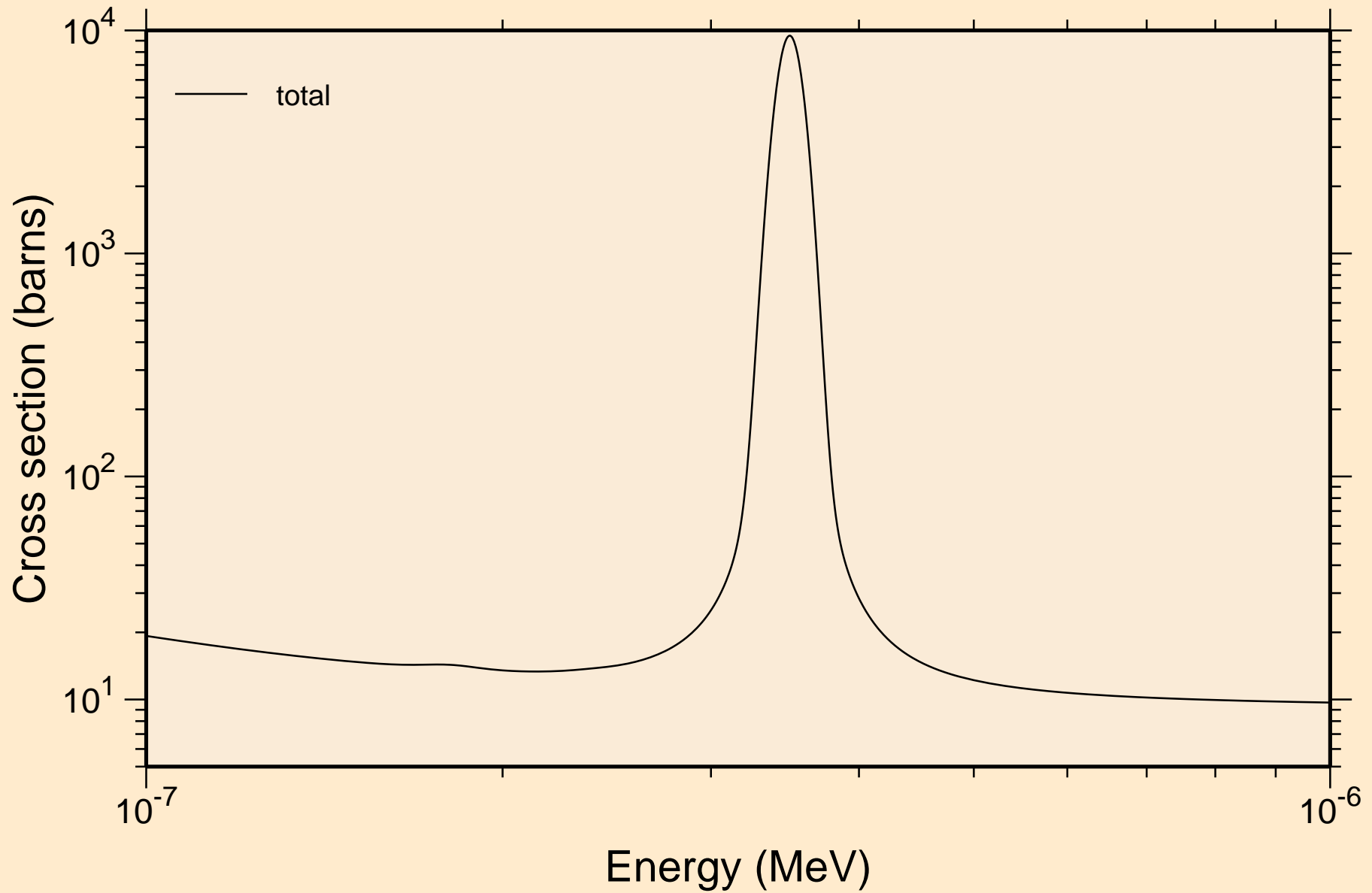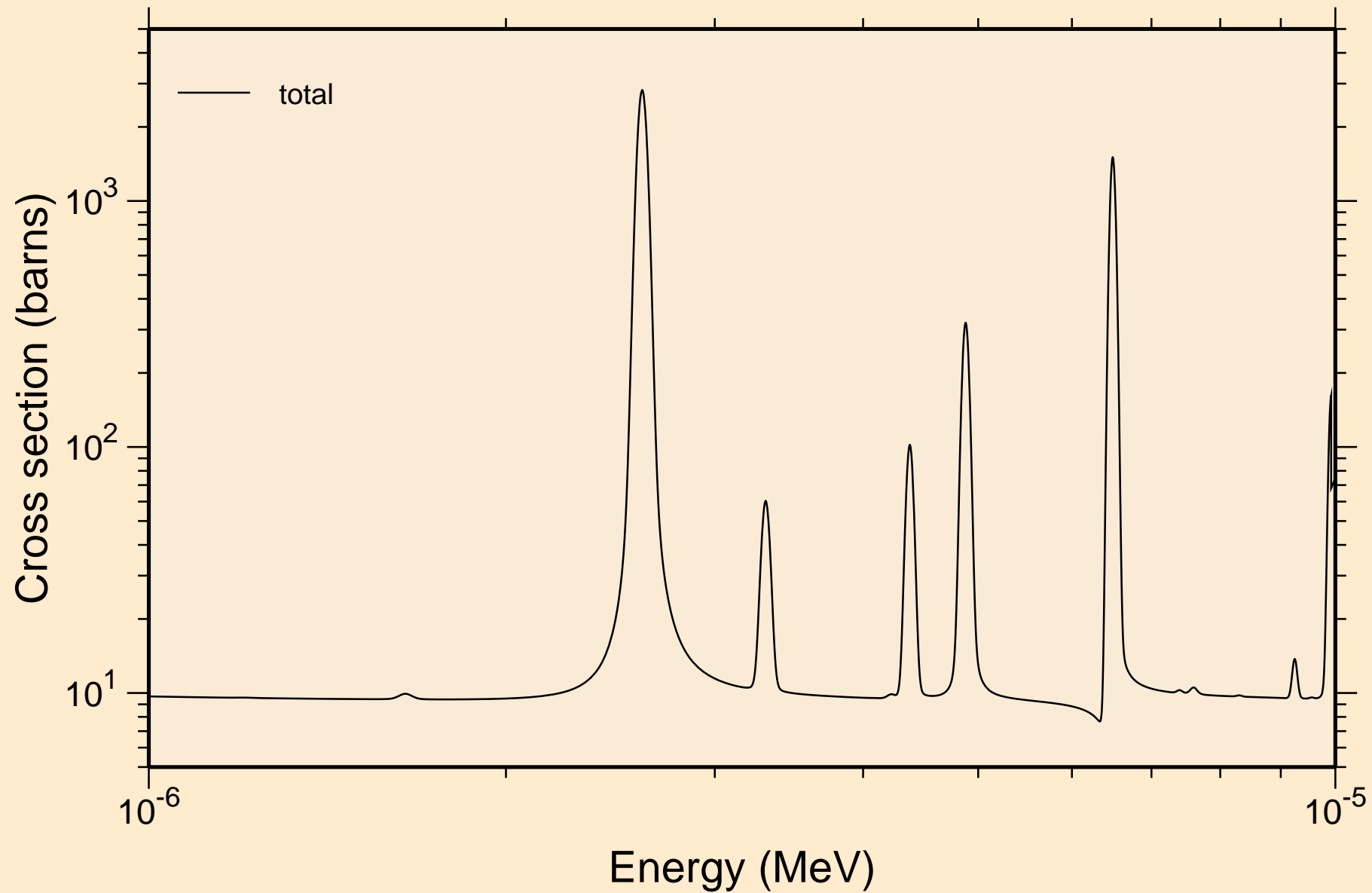N-RF261M NRG TENDL-2017, AKONING
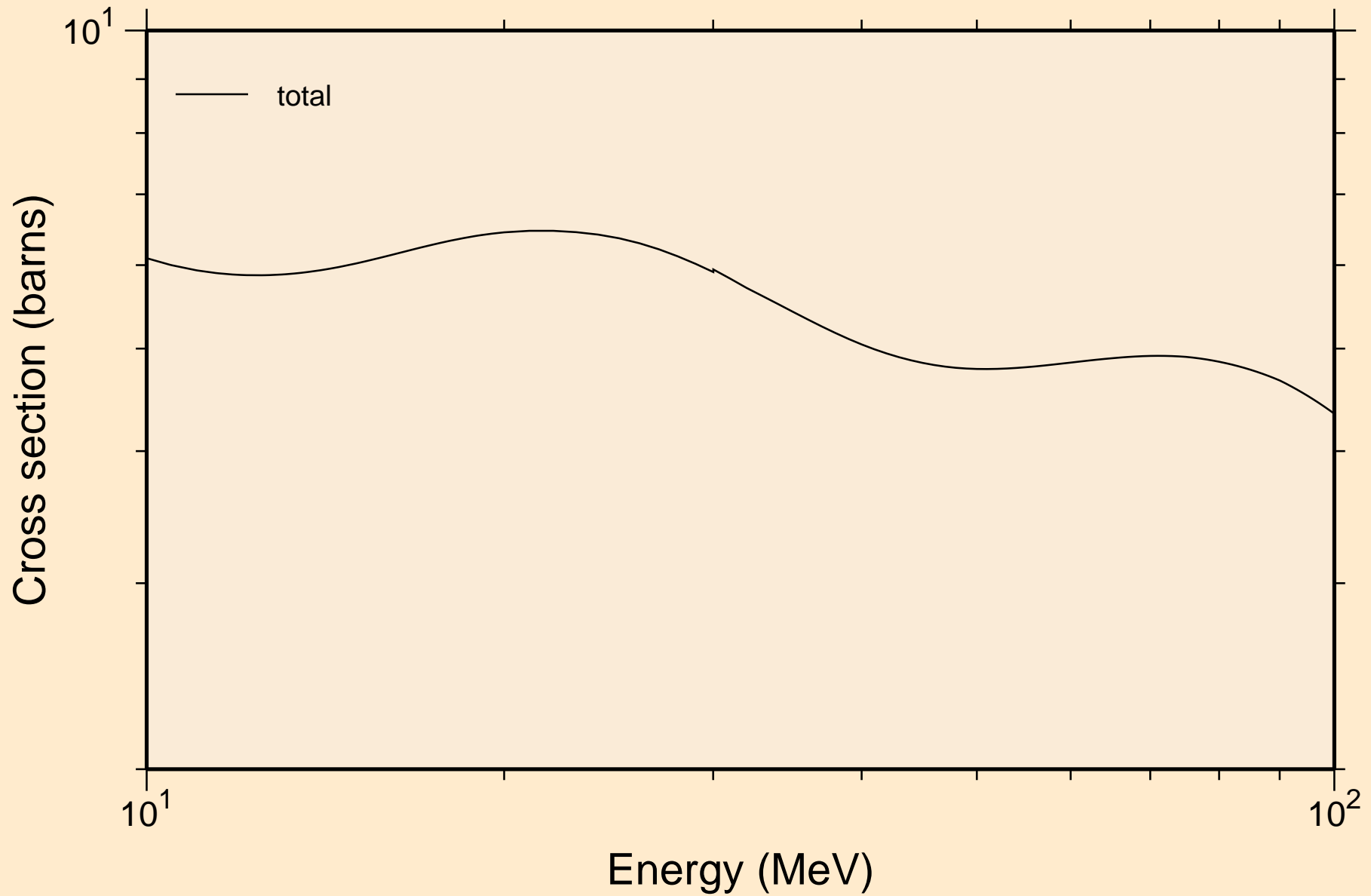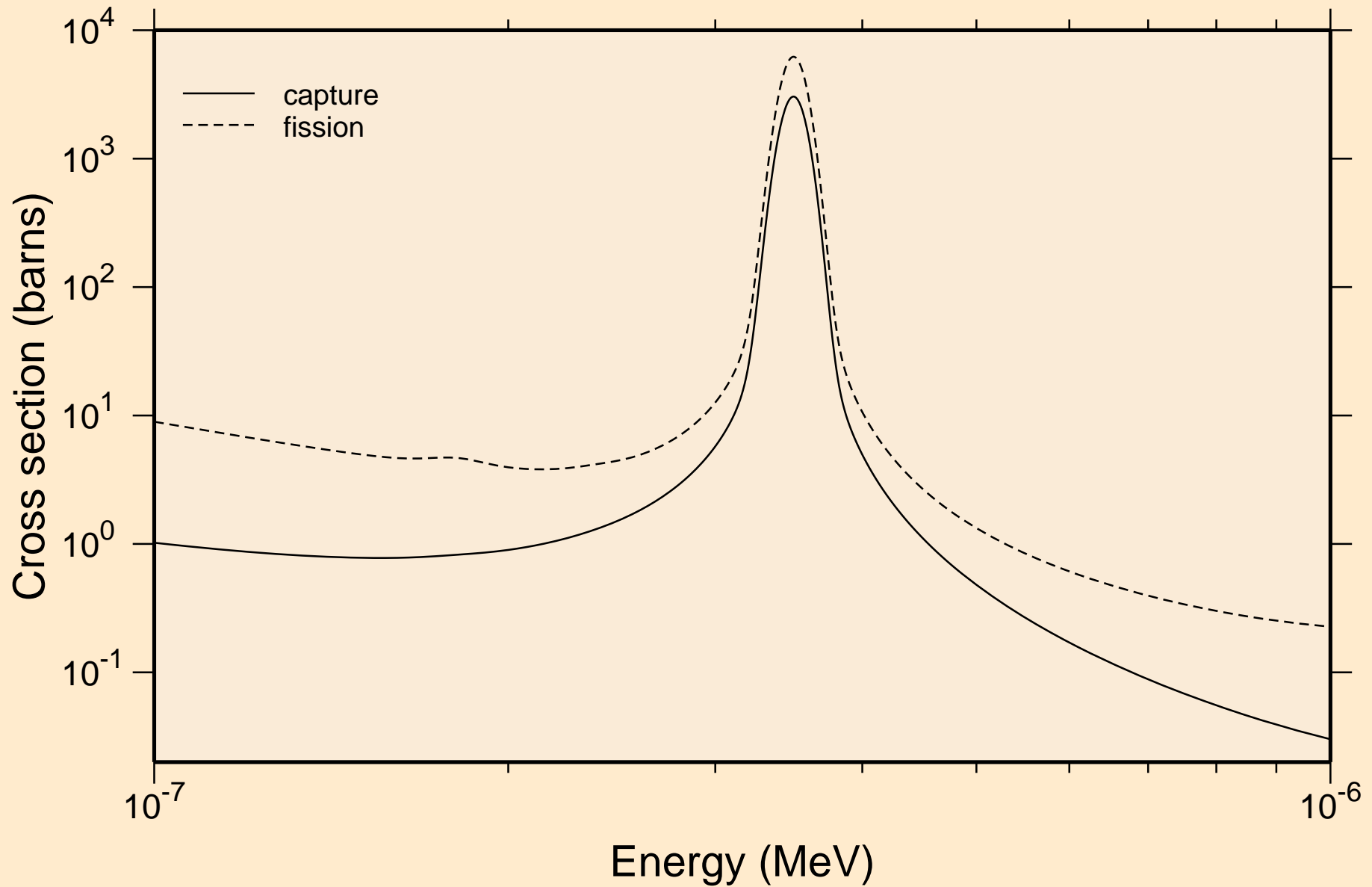Principal cross sections

N-RF261M NRG TENDL-2017, AKONING
resonance total cross section

N-RF261M NRG TENDL-2017, AKONING
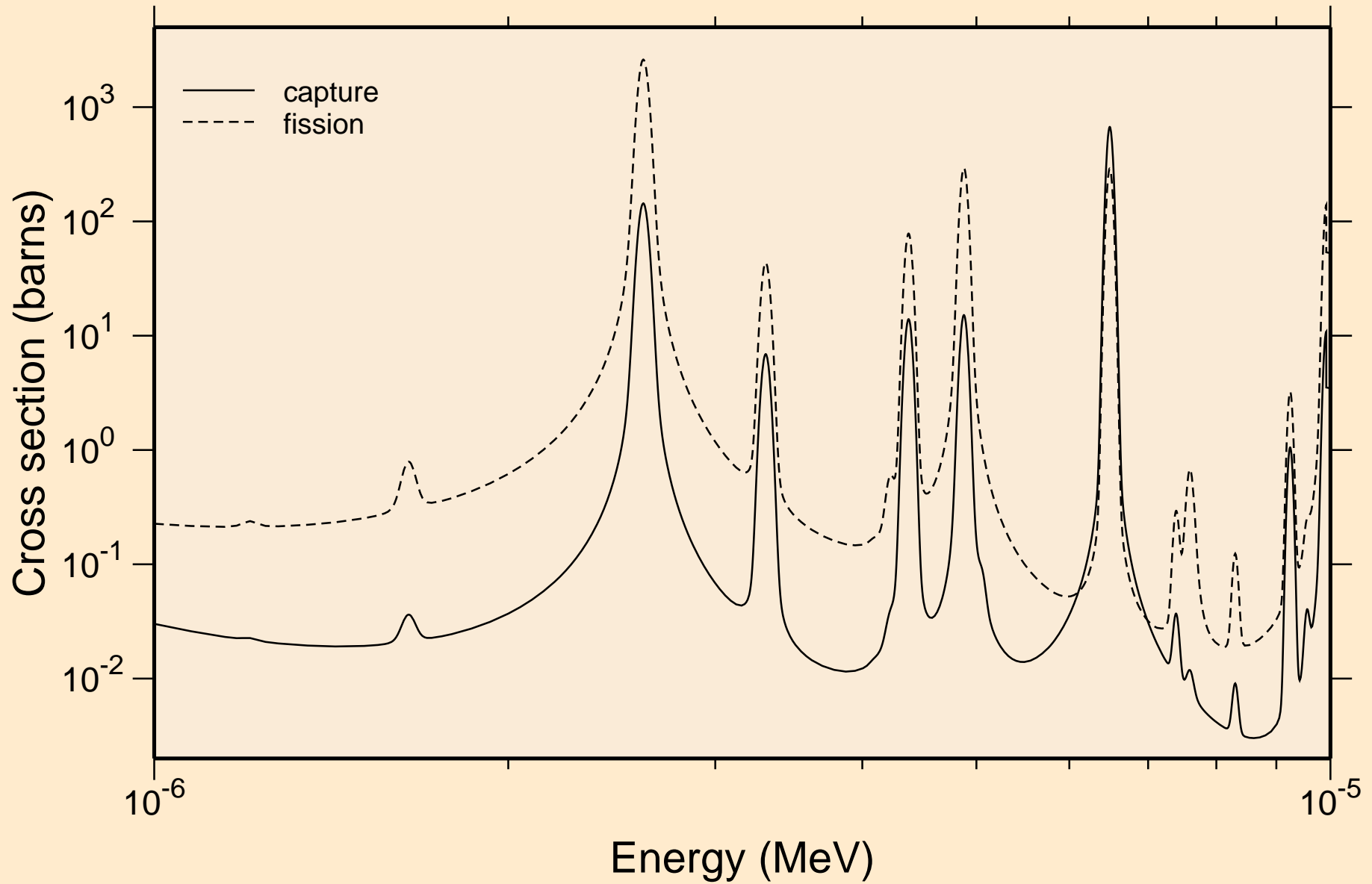resonance total cross section

N-RF261M NRG TENDL-2017, AKONING
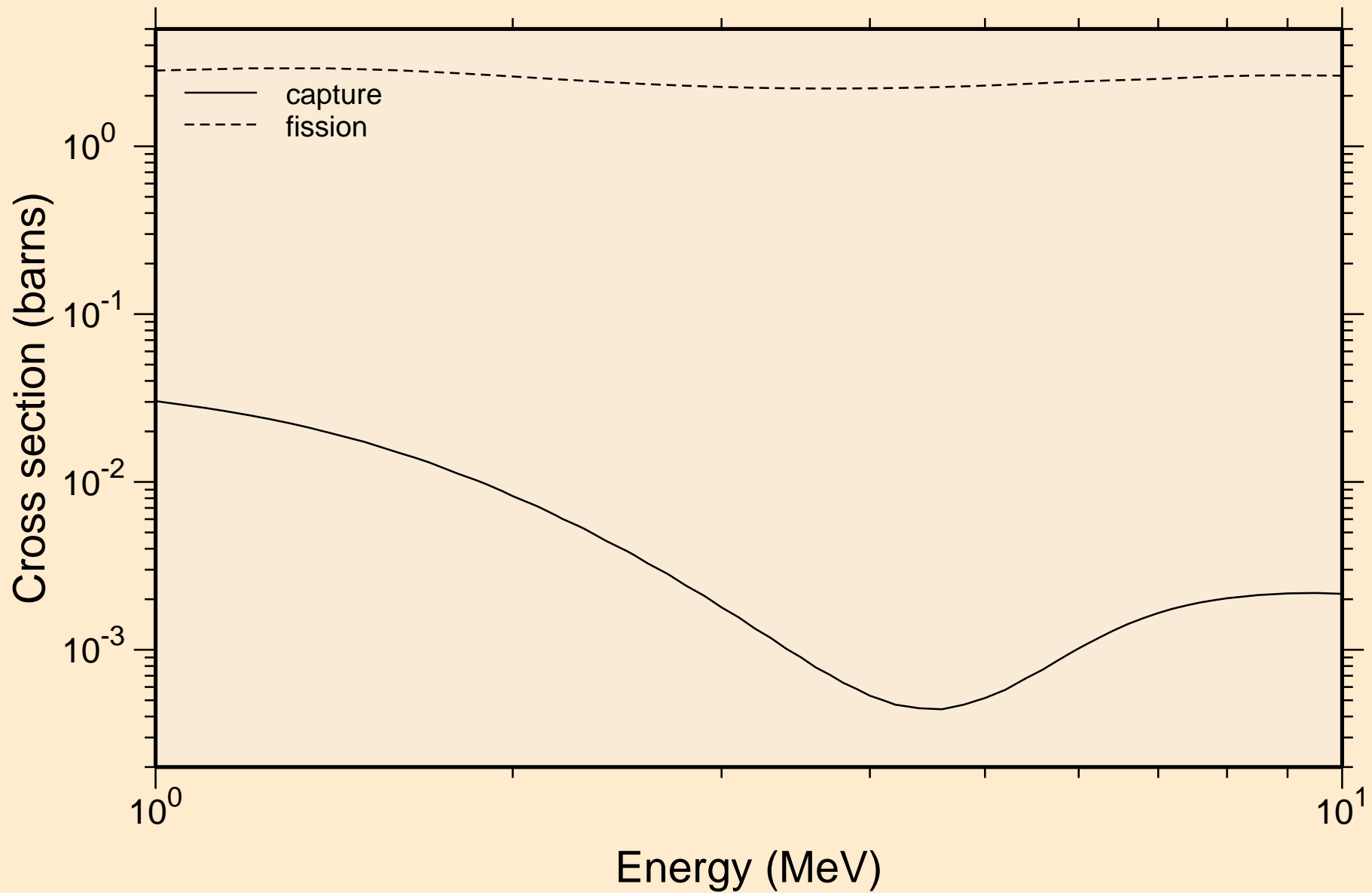resonance total cross section

N-RF261M NRG TENDL-2017, AKONING
resonance absorption cross sections

capture
fission

N-RF261M NRG TENDL-2017, AKONING
resonance absorption cross sections

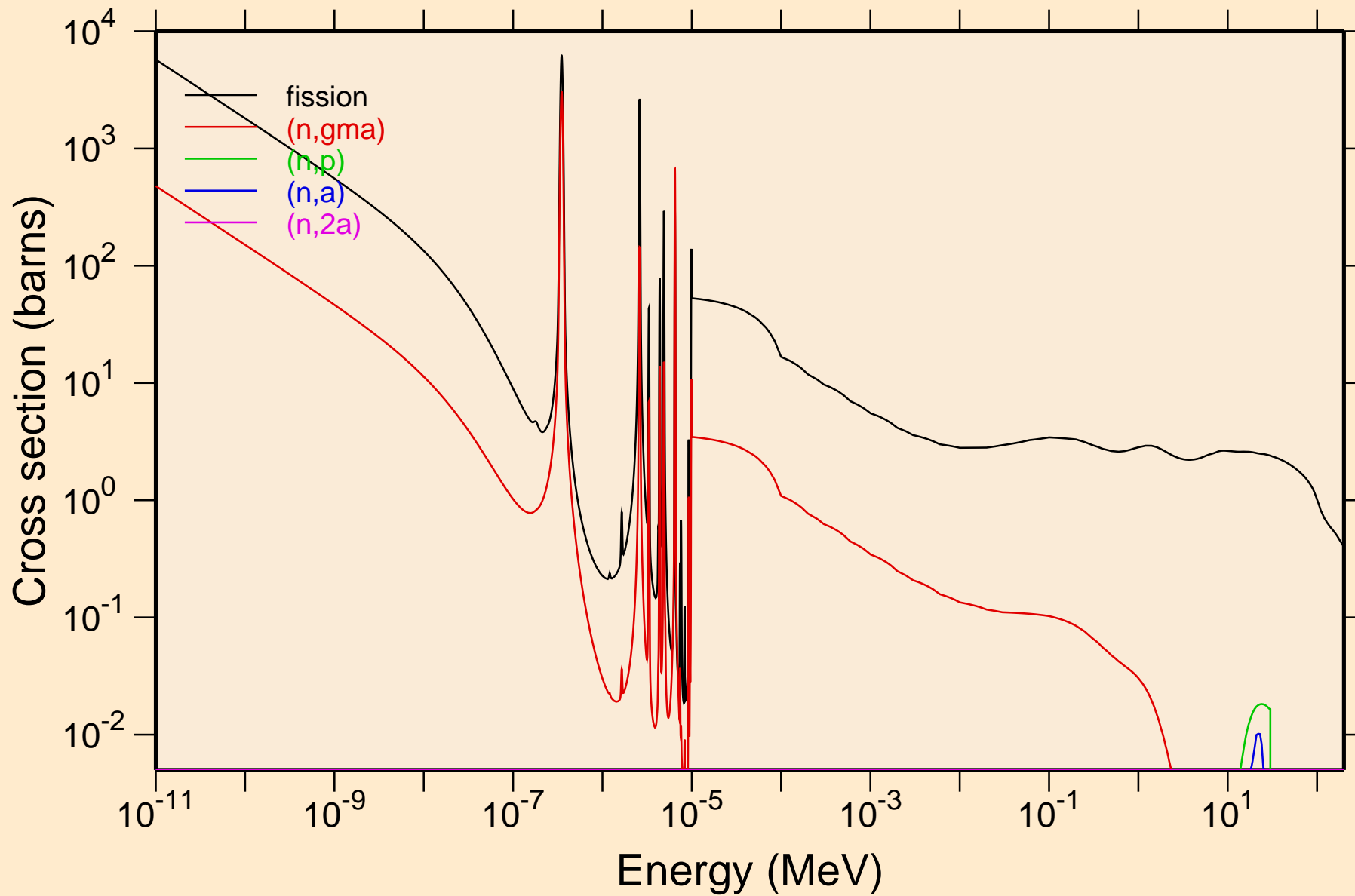N-RF261M NRG TENDL-2017, AKONING
resonance absorption cross sections

capture
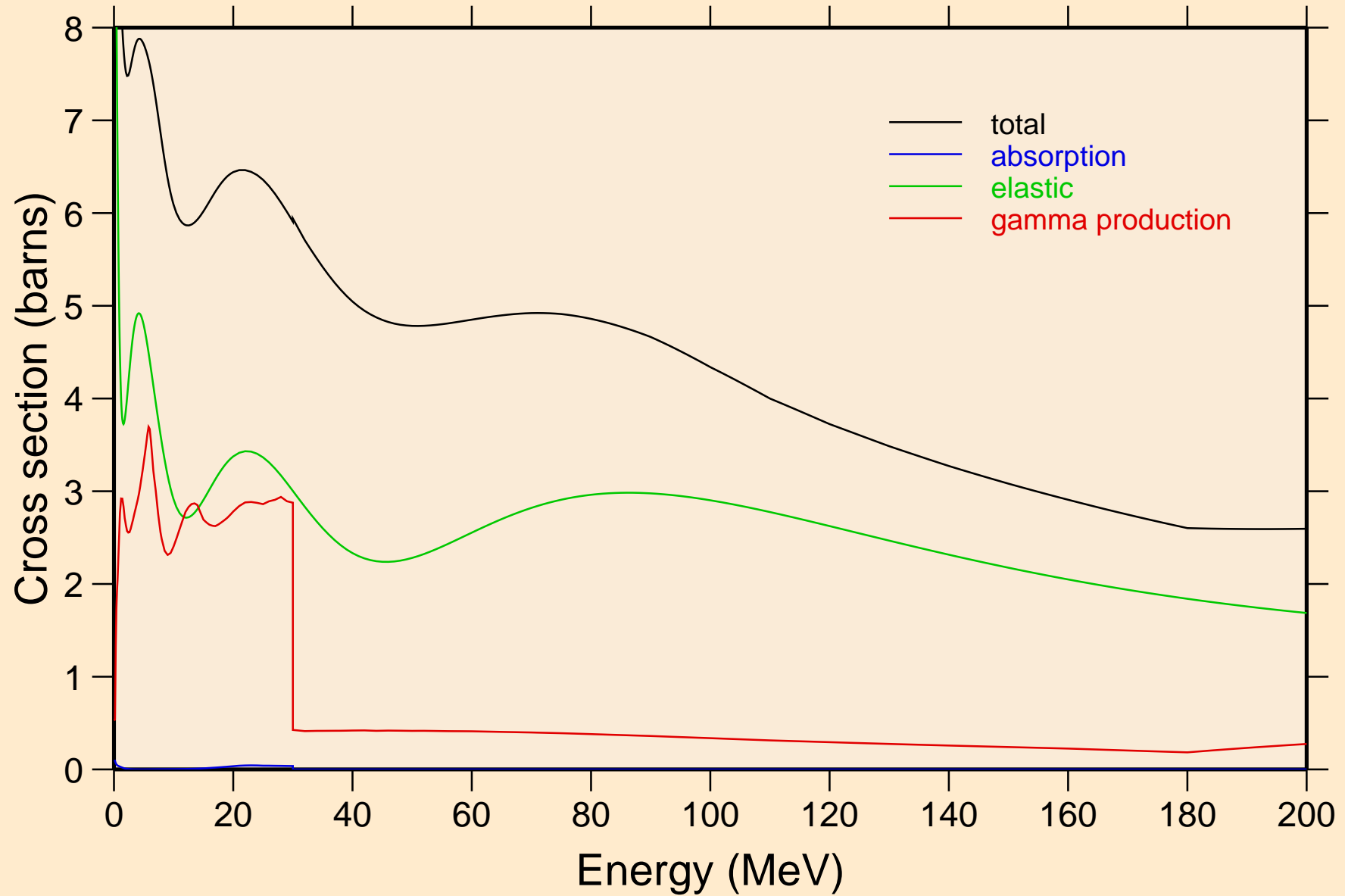fission

N-RF261M NRG TENDL-2017, AKONING
Non-threshold reactions
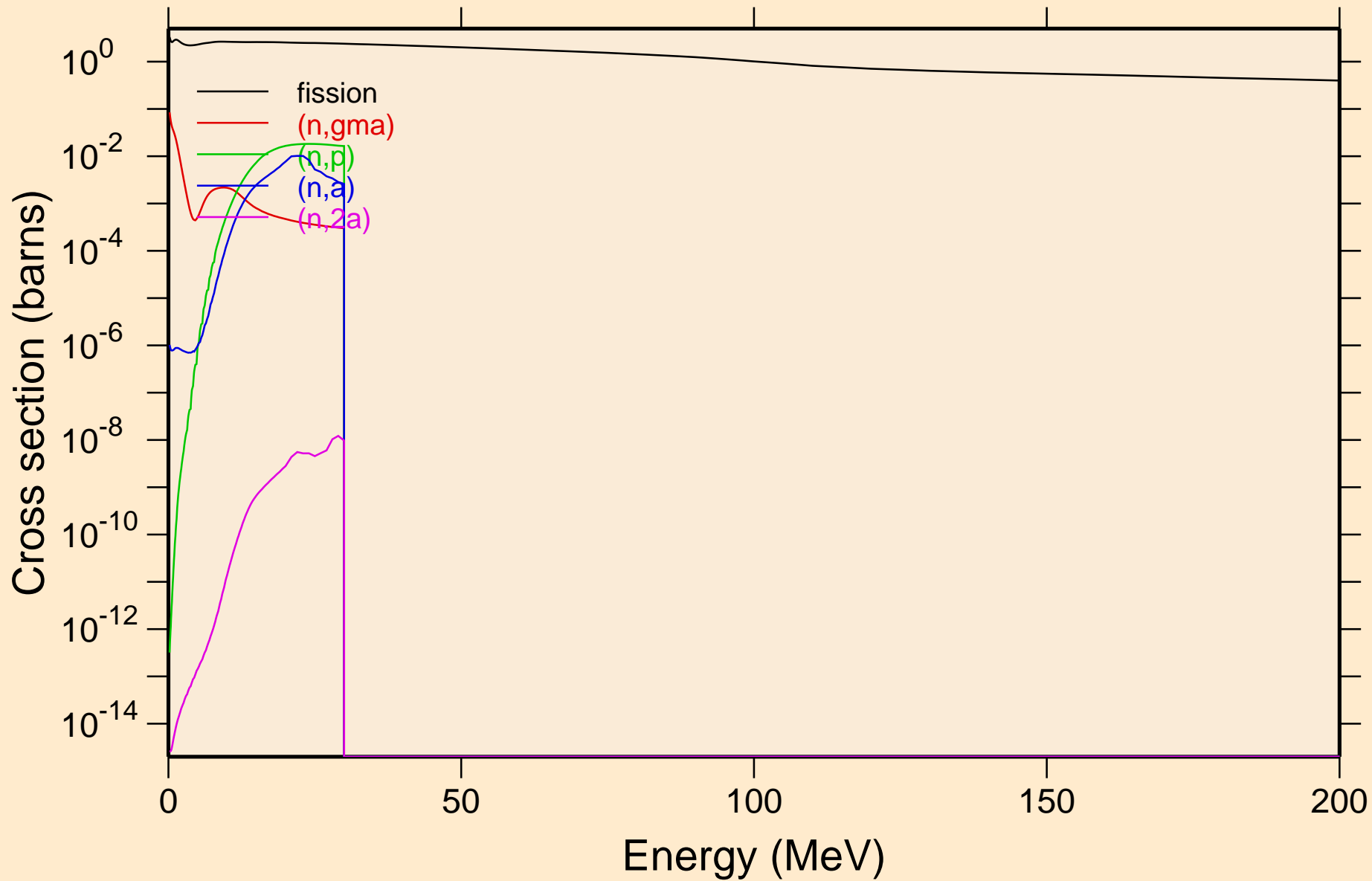
fission
(n,gma)
(n,p)
(n,a)
(n,2a)

N-RF261M NRG TENDL-2017, AKONING
Principal cross sections

N-RF261M NRG TENDL-2017, AKONING
Non-threshold reactions

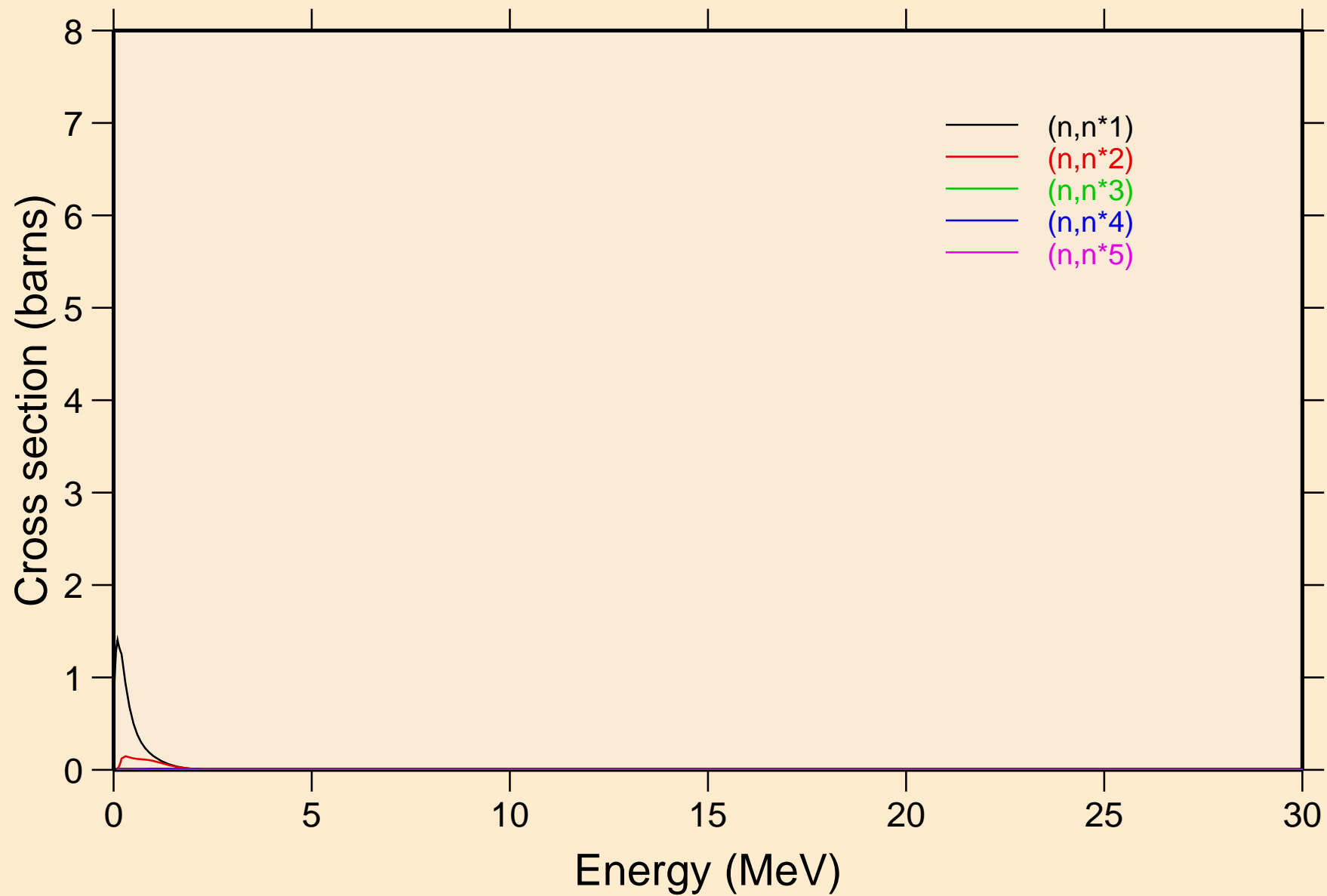N-RF261M NRG TENDL-2017, AKONING
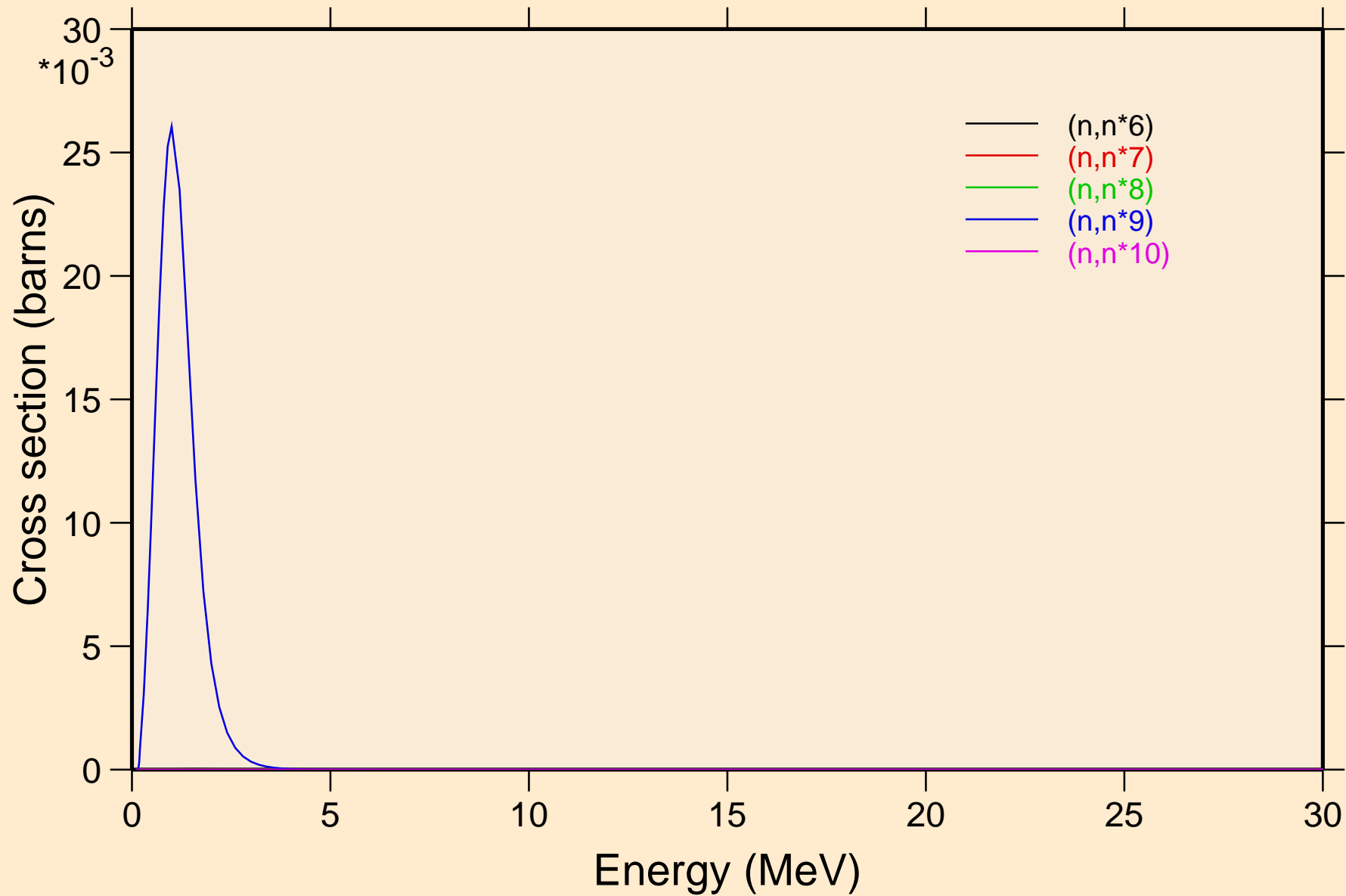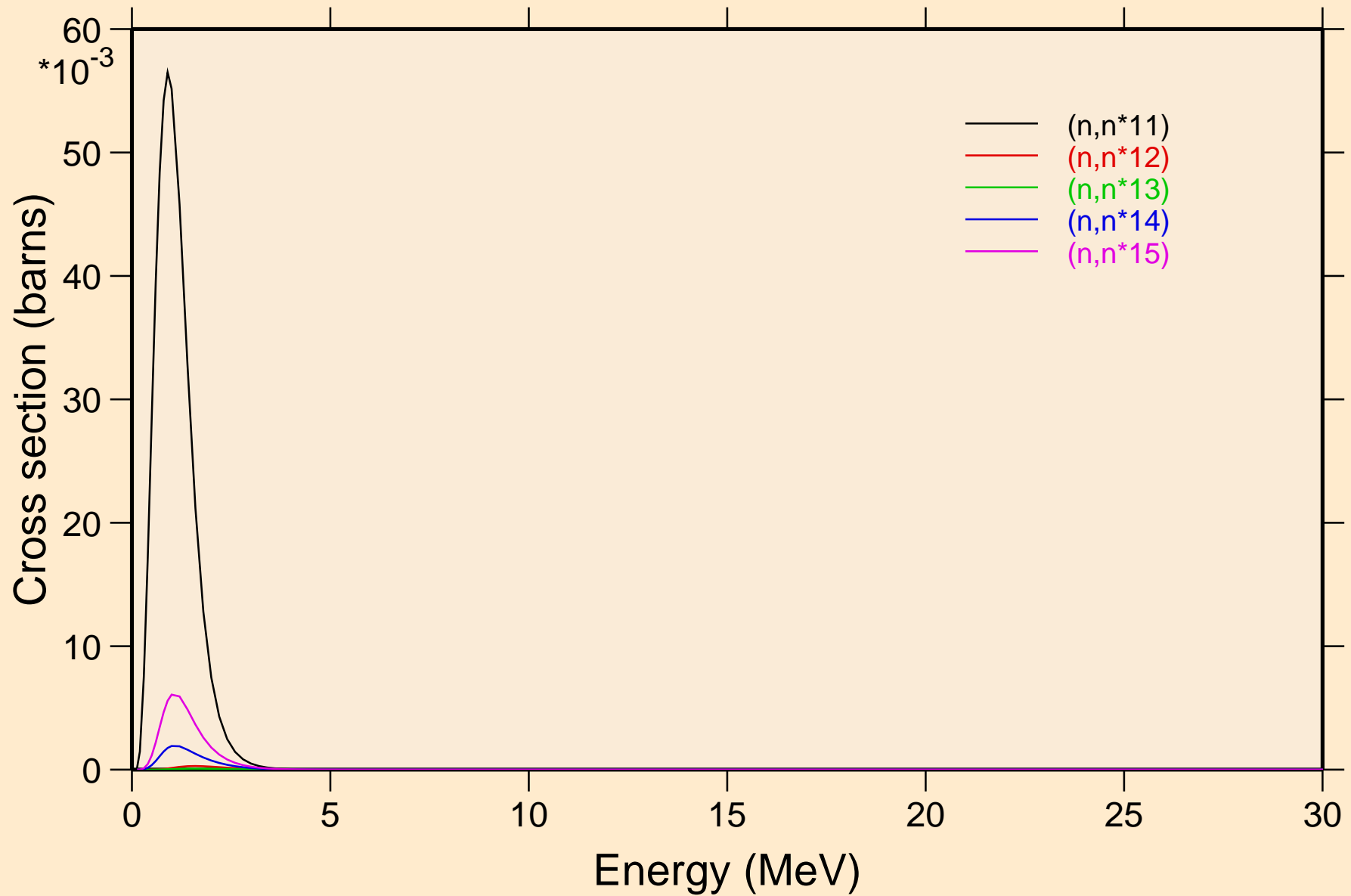Inelastic levels

Cross section (barns) vs Energy (MeV)

Legend:
- (n,n*1)
- (n,n*2)
- (n,n*3)
- (n,n*4)
- (n,n*5)

N-RF261M NRG TENDL-2017, AKONING
Inelastic levels

Cross section (barns)

*10⁻³

(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

Energy (MeV)

N-RF261M NRG TENDL-2017, AKONING
Inelastic levels

Cross section (barns) vs Energy (MeV)

Legend:
- (n,n*11) — black
- (n,n*12) — red
- (n,n*13) — green
- (n,n*14) — blue
- (n,n*15) — magenta

N-RF261M NRG TENDL-2017, AKONING
Inelastic levels

Cross section (barns)

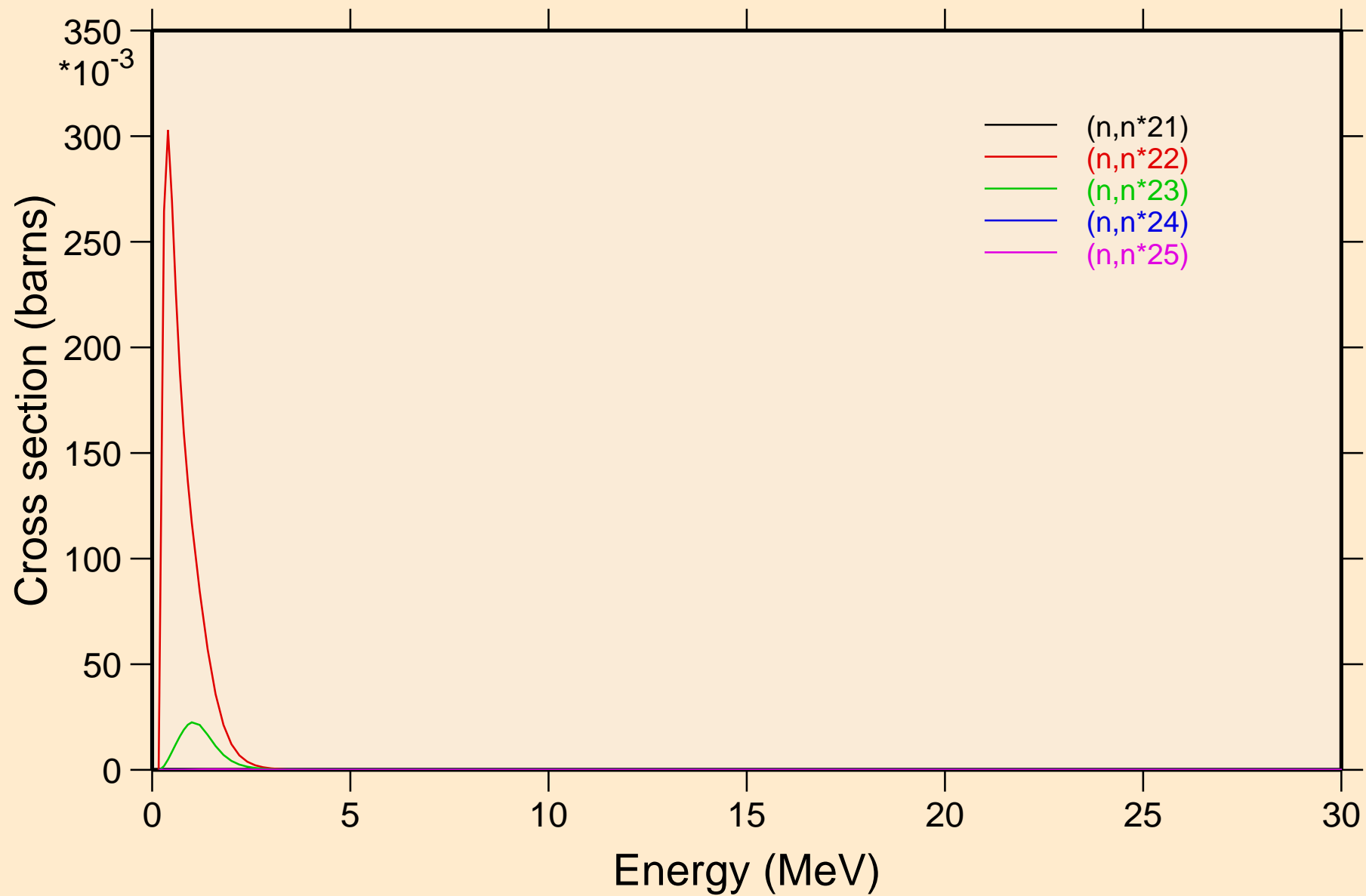Energy (MeV)

*10⁻³

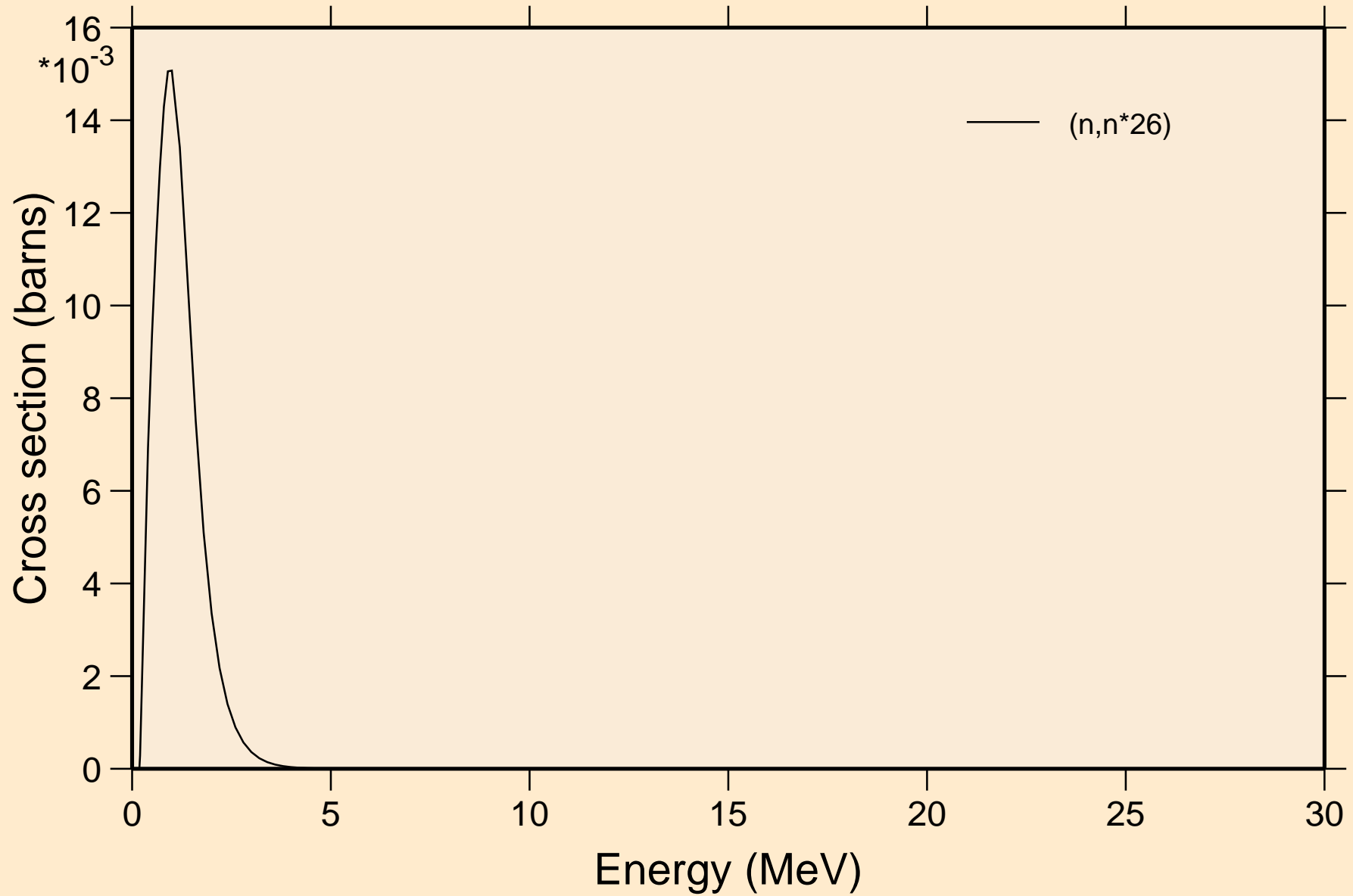(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)
(n,n*20)

N-RF261M NRG TENDL-2017, AKONING
Inelastic levels

N-RF261M NRG TENDL-2017, AKONING
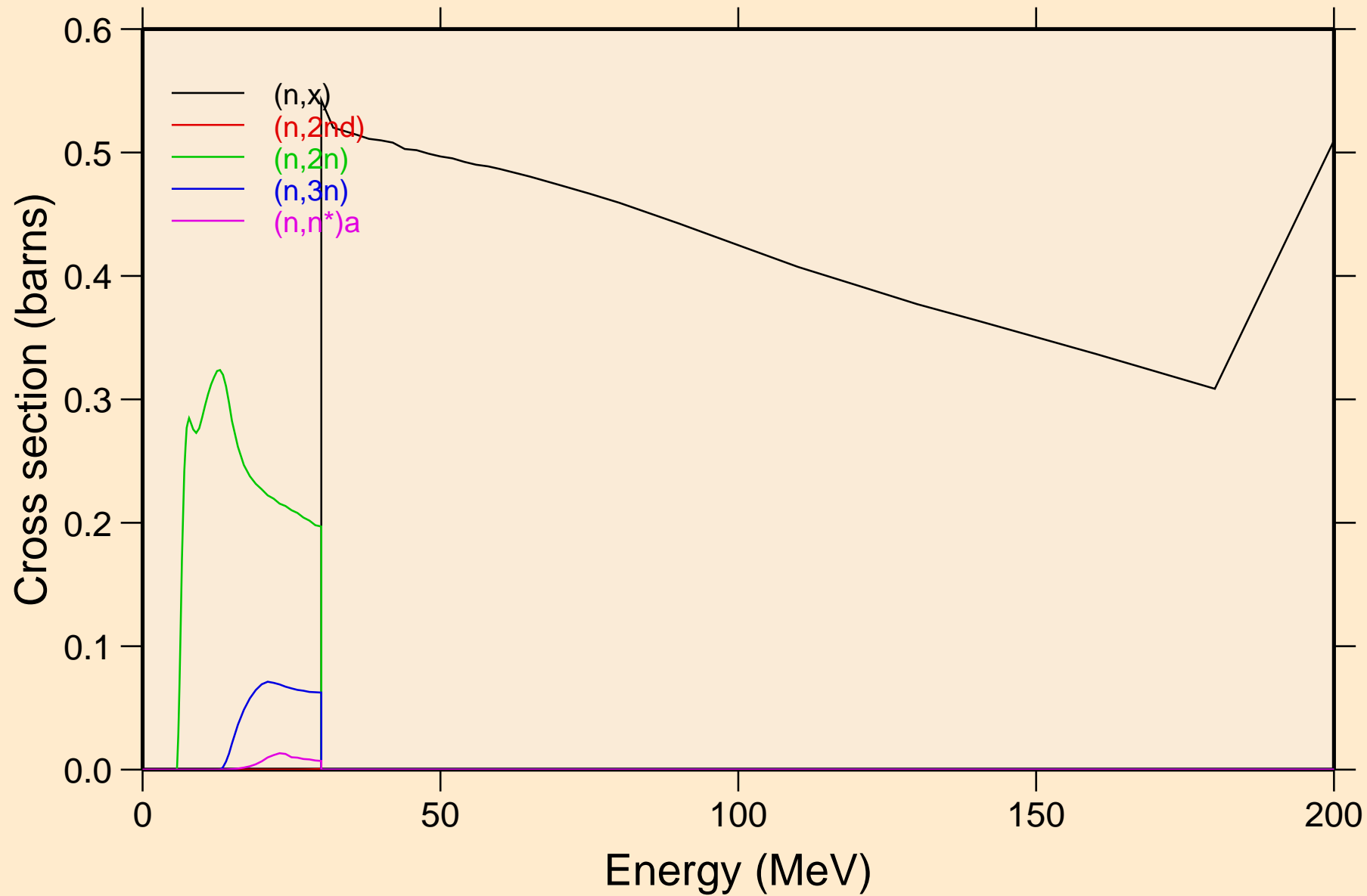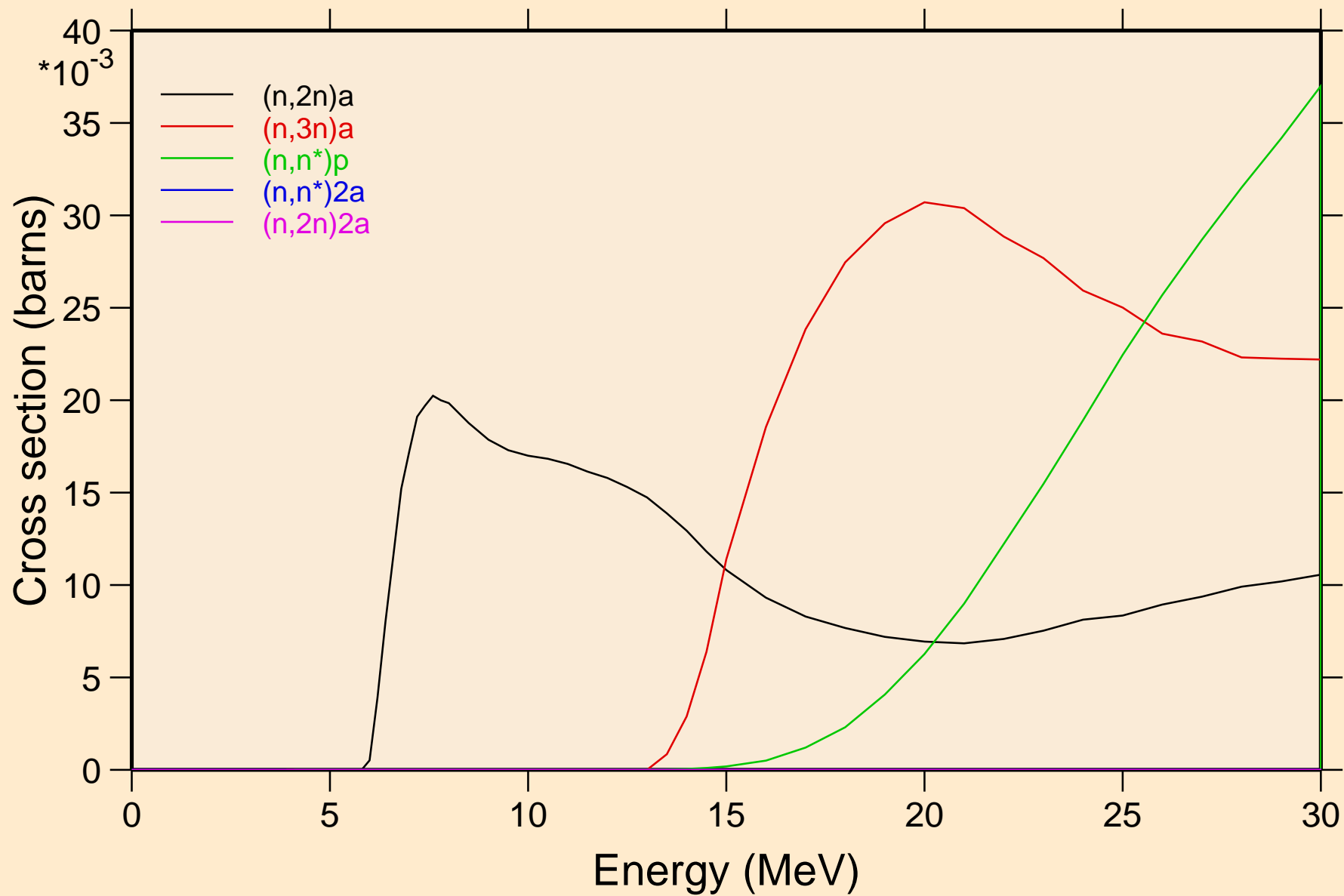Inelastic levels

(n,n*26)

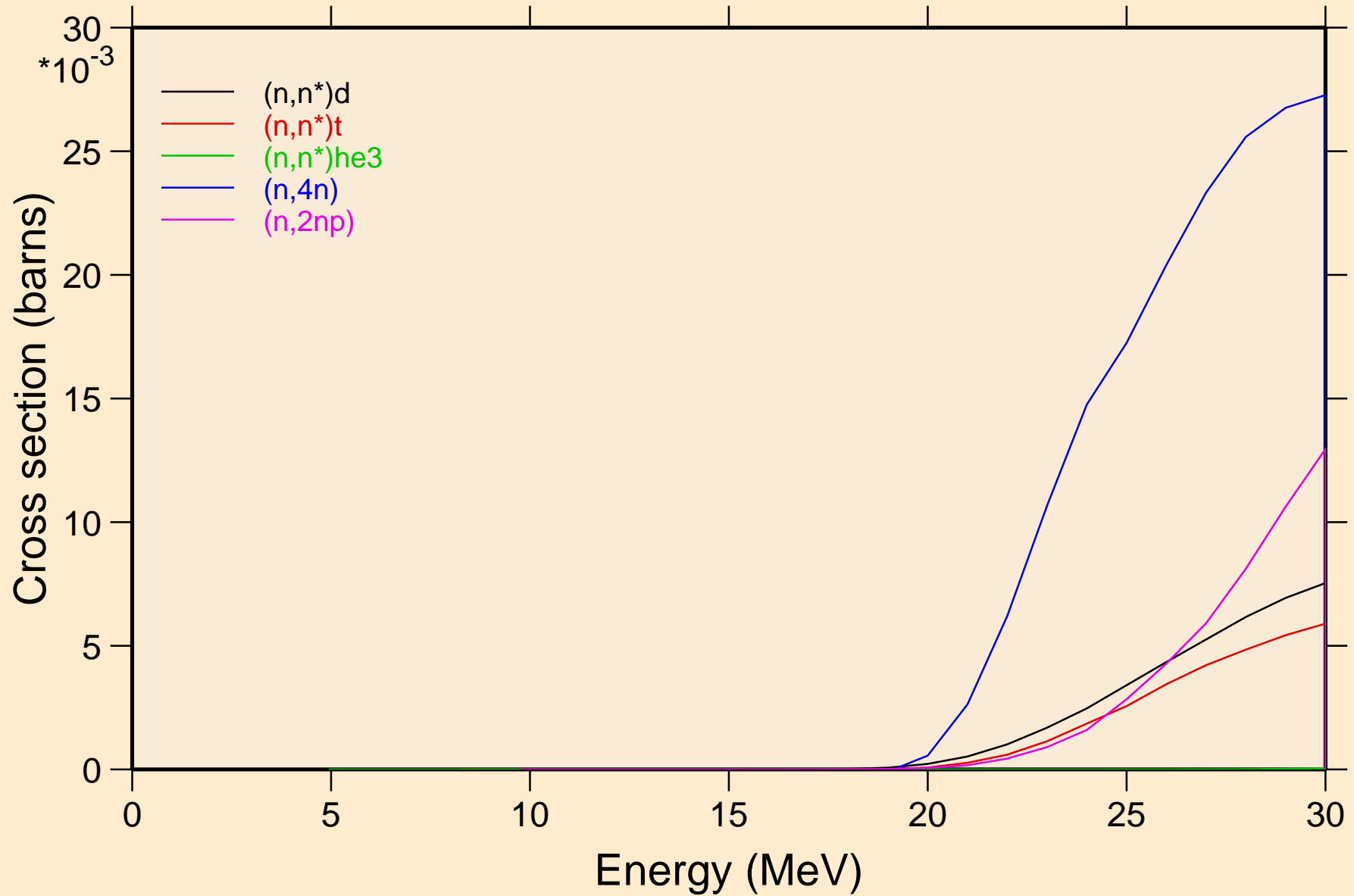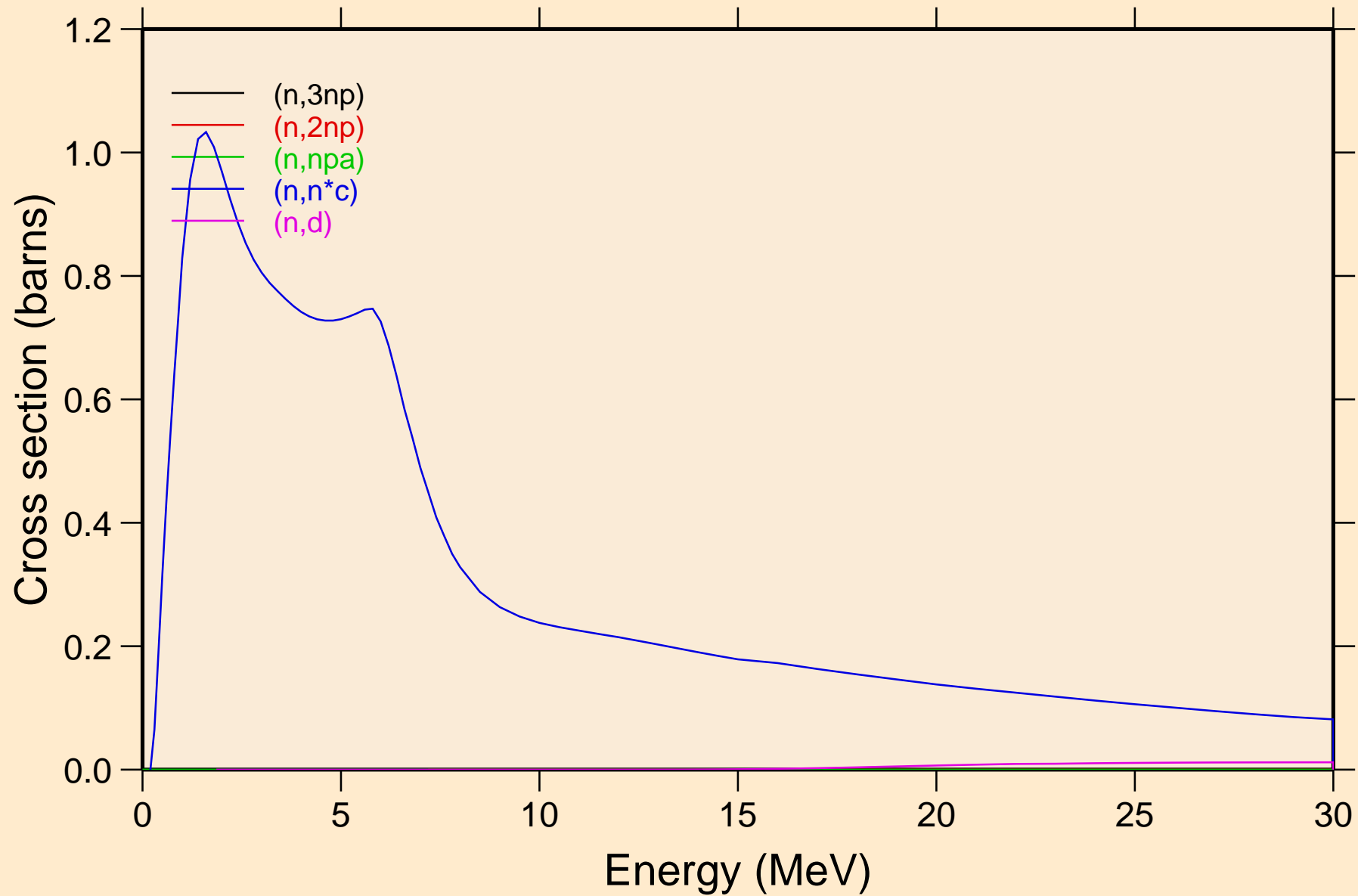N-RF261M NRG TENDL-2017, AKONING
Threshold reactions

Legend:
- (n,x)
- (n,2nd)
- (n,2n)
- (n,3n)
- (n,n*)a

N-RF261M NRG TENDL-2017, AKONING
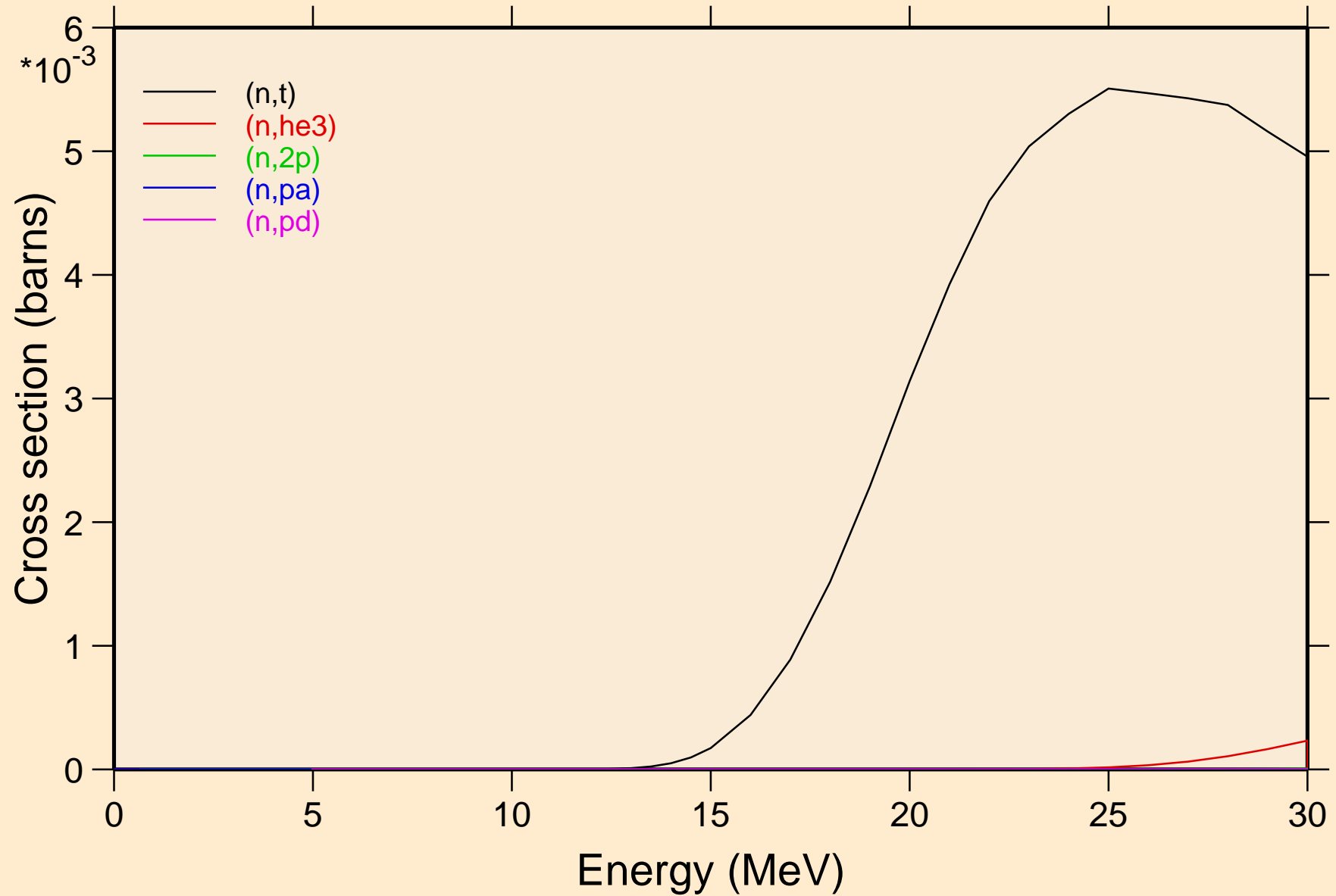Threshold reactions

- (n,2n)a
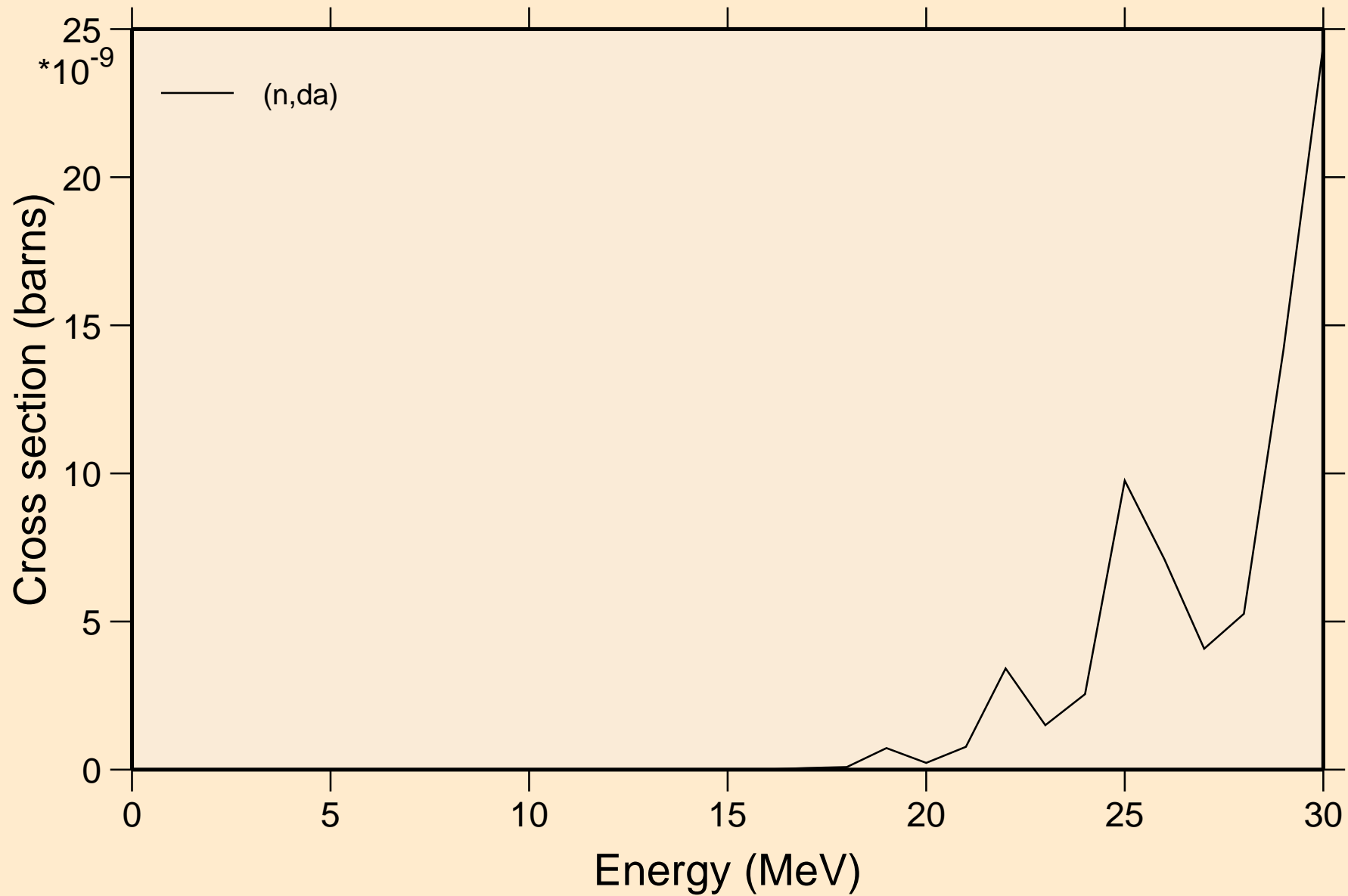- (n,3n)a
- (n,n*)p
- (n,n*)2a
- (n,2n)2a

N-RF261M NRG TENDL-2017, AKONING
Threshold reactions

N-RF261M NRG TENDL-2017, AKONING
Threshold reactions

Legend:
- (n,3np)
- (n,2np)
- (n,npa)
- (n,n*c)
- (n,d)

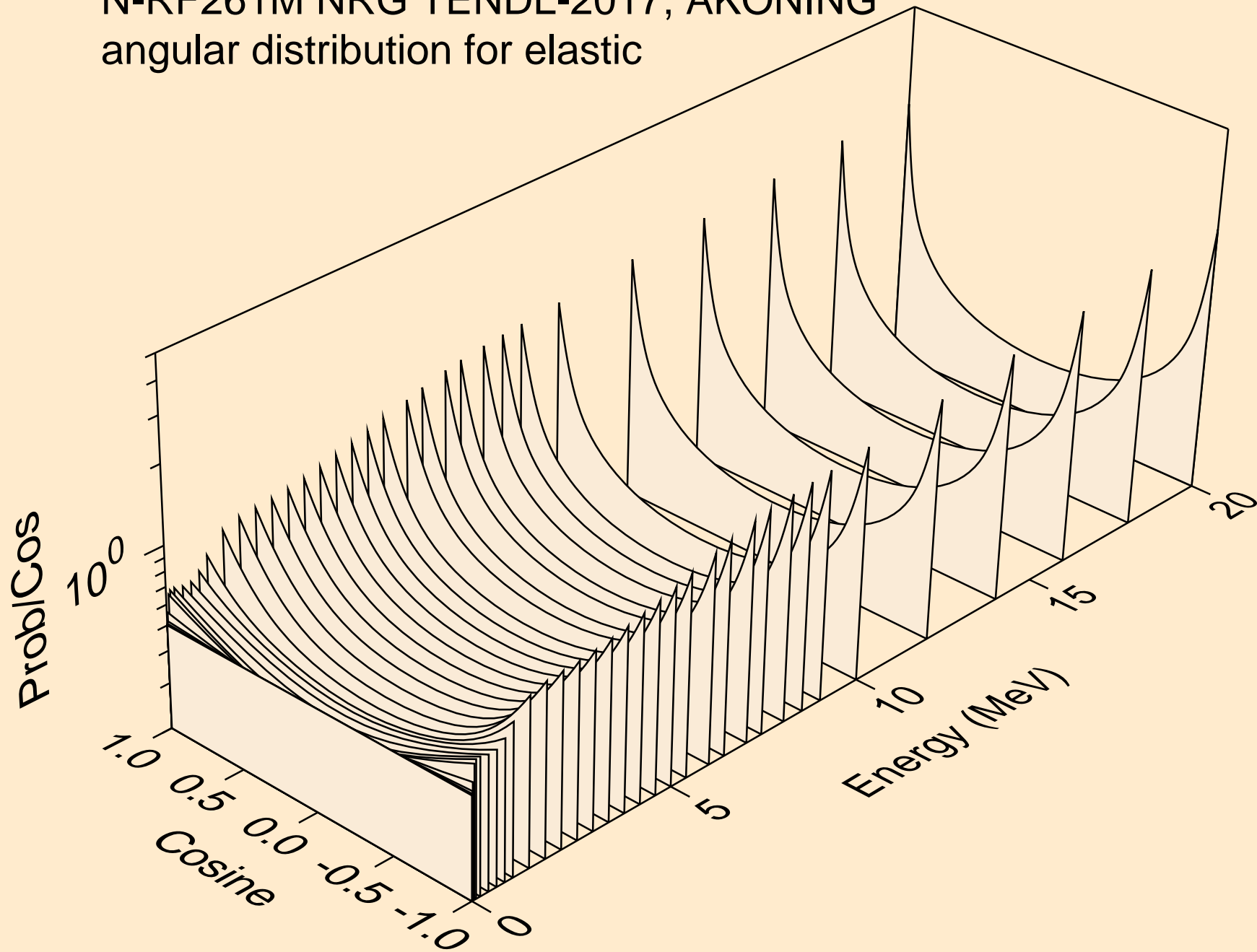N-RF261M NRG TENDL-2017, AKONING
Threshold reactions

N-RF261M NRG TENDL-2017, AKONING
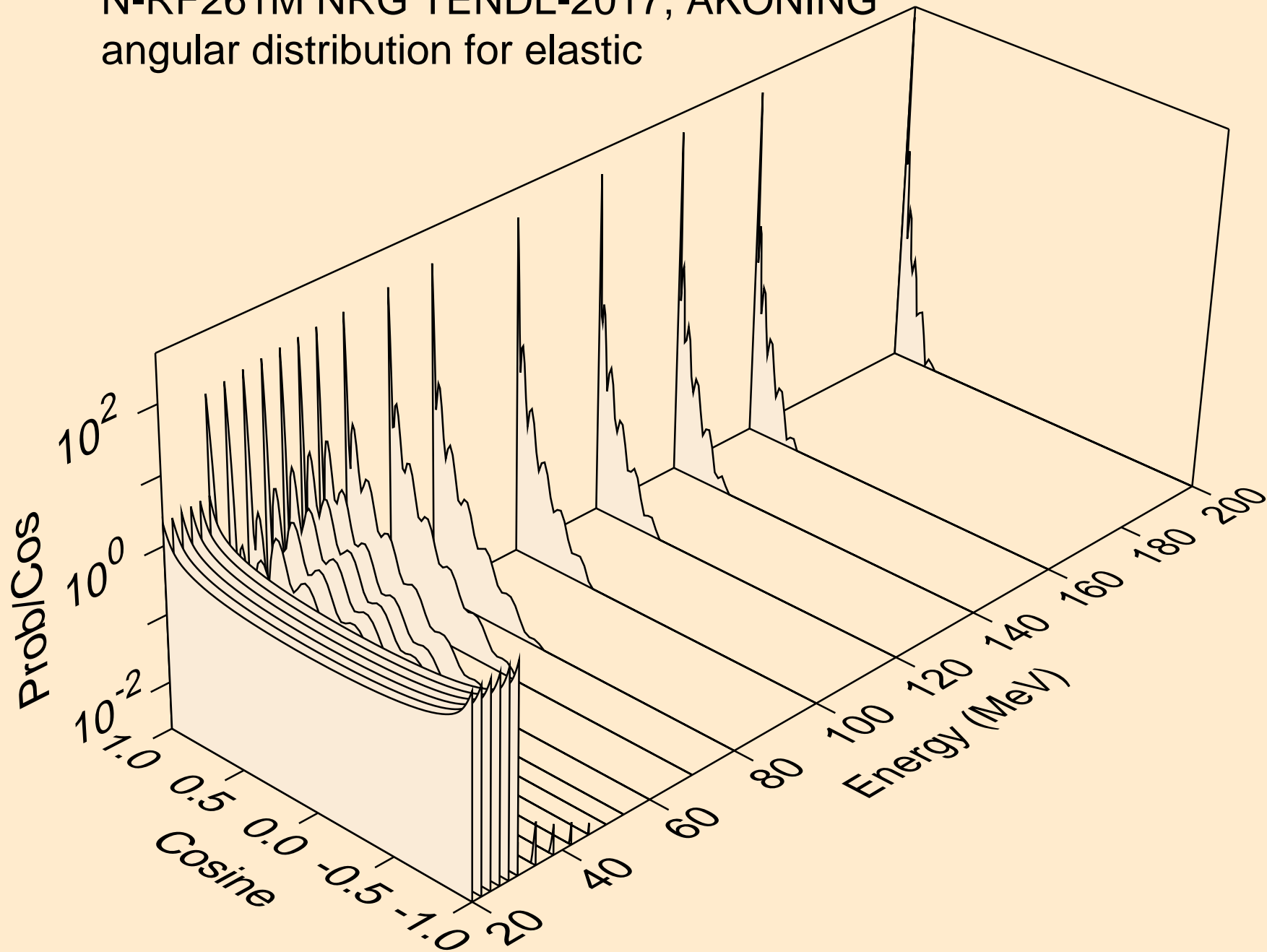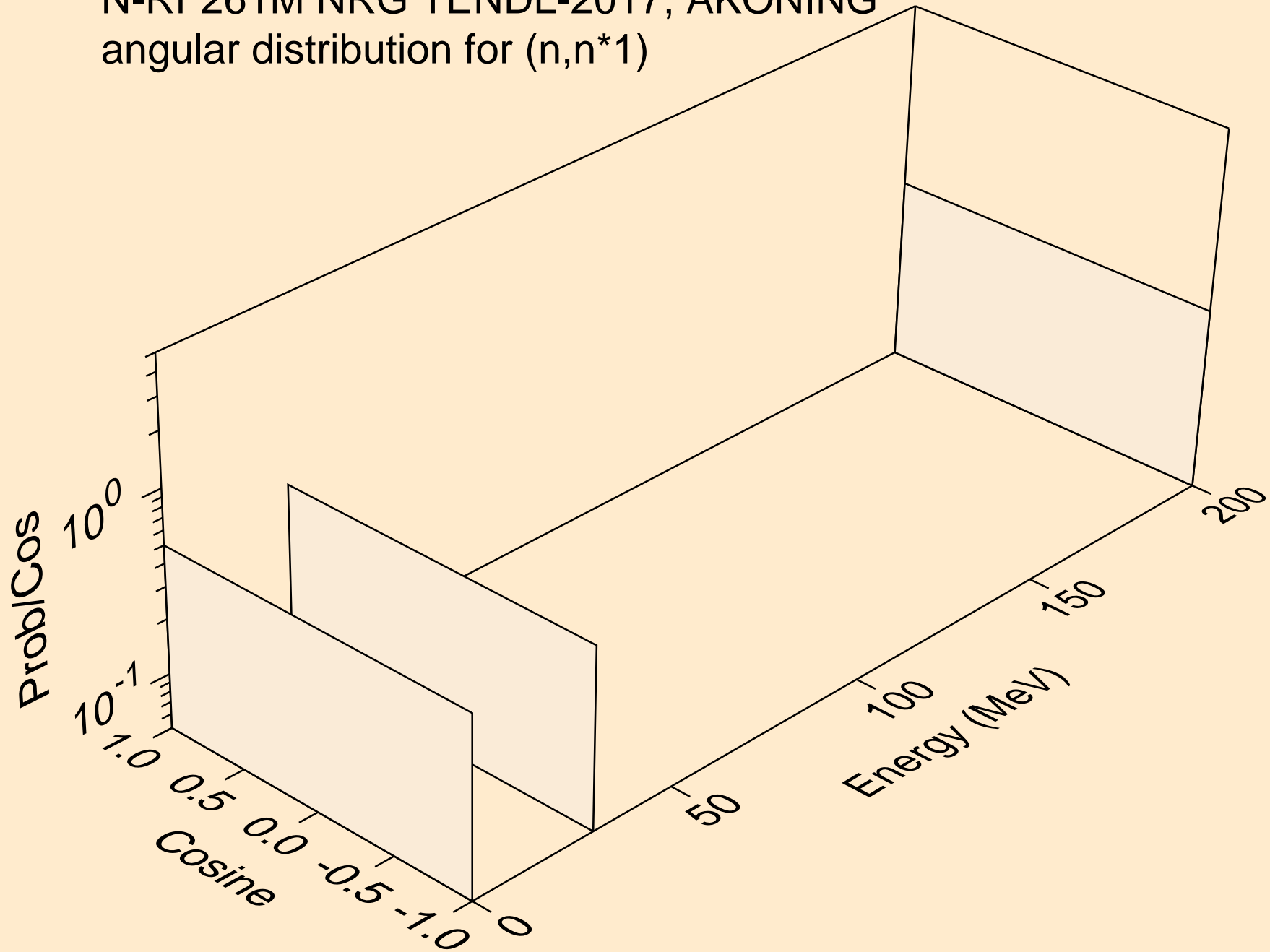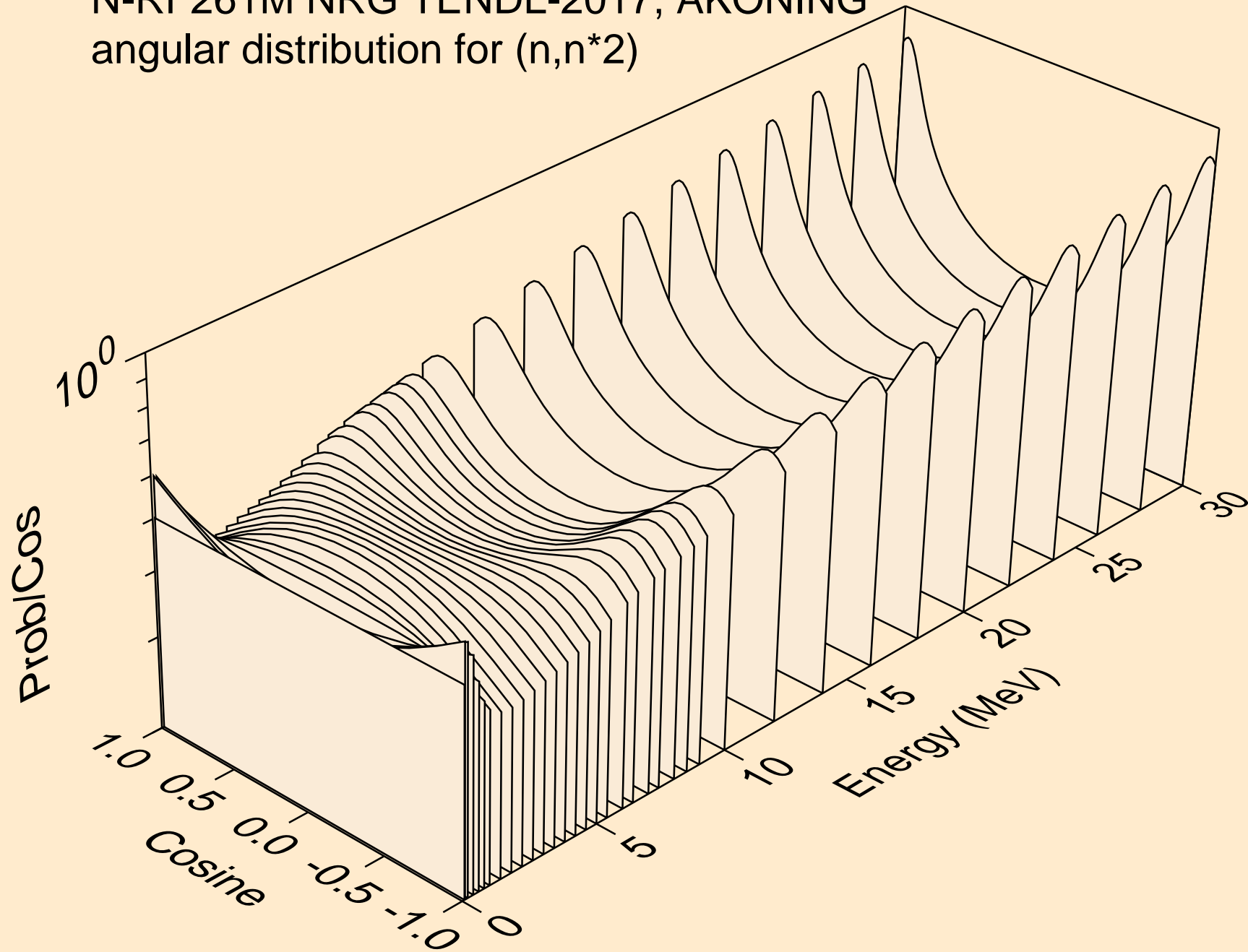Threshold reactions

(n,da)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for elastic

N-RF261M NRG TENDL-2017, AKONING
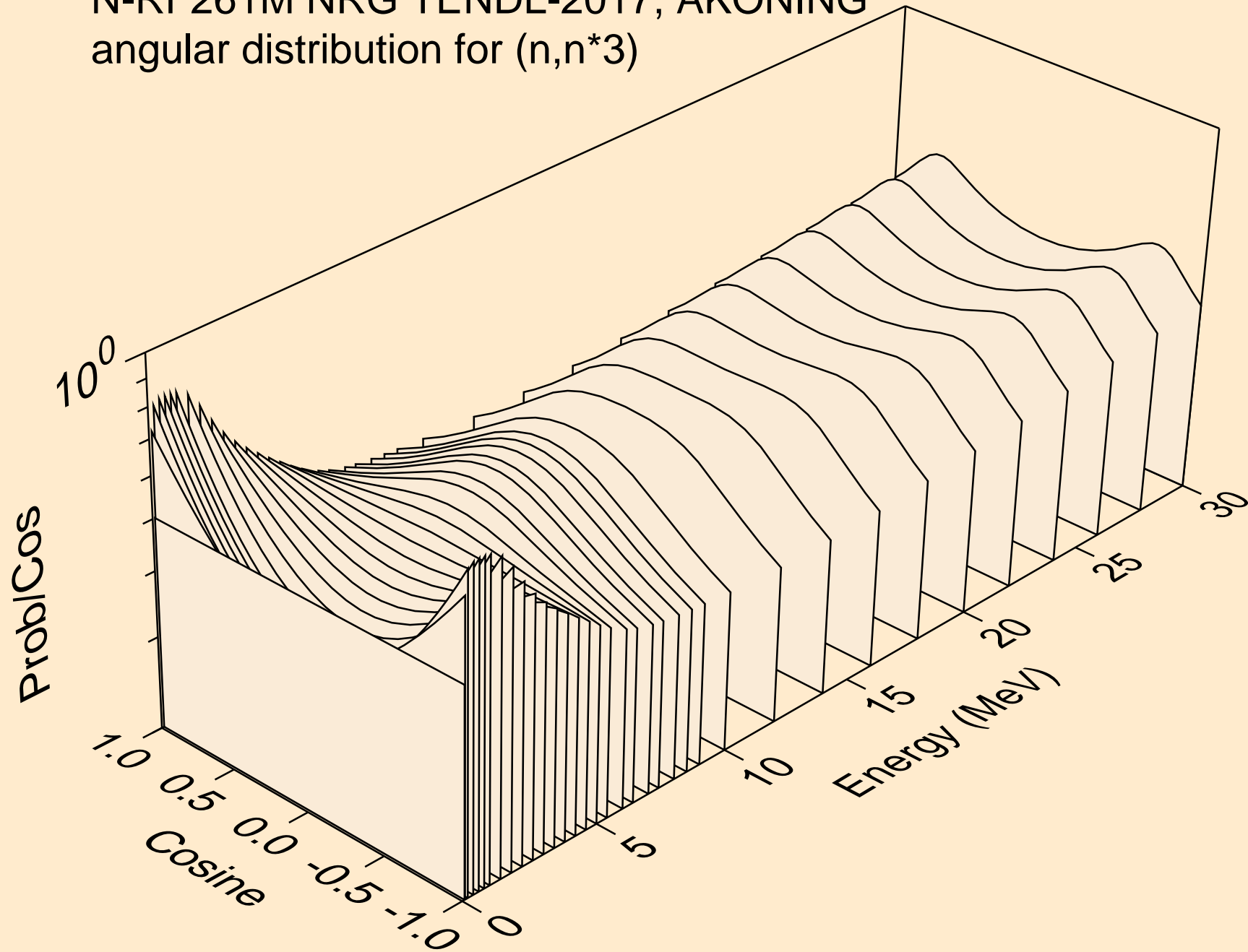angular distribution for elastic

N-RF261M NRG TENDL-2017, AKONING
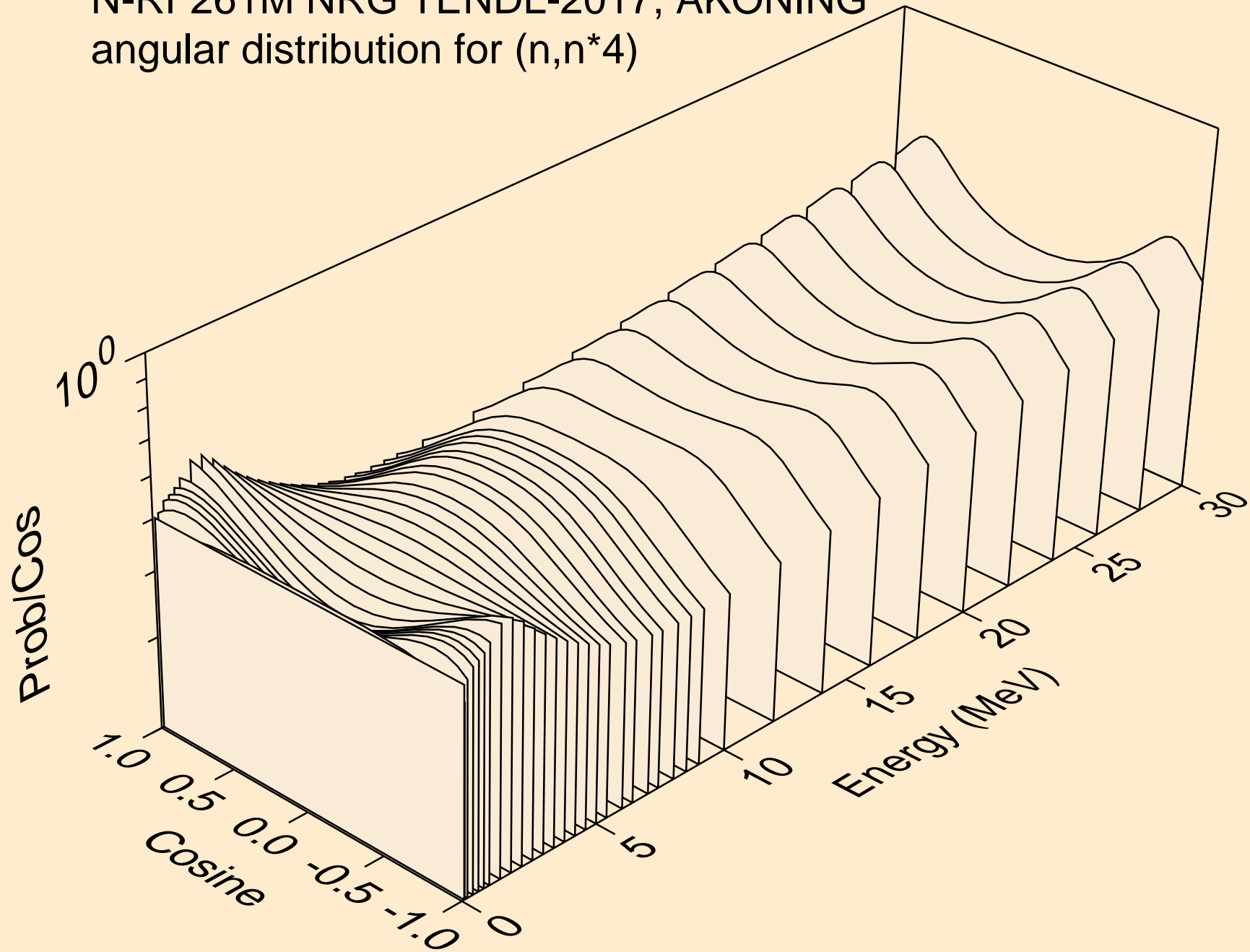angular distribution for (n,n*1)

N-RF261M NRG TENDL-2017, AKONING
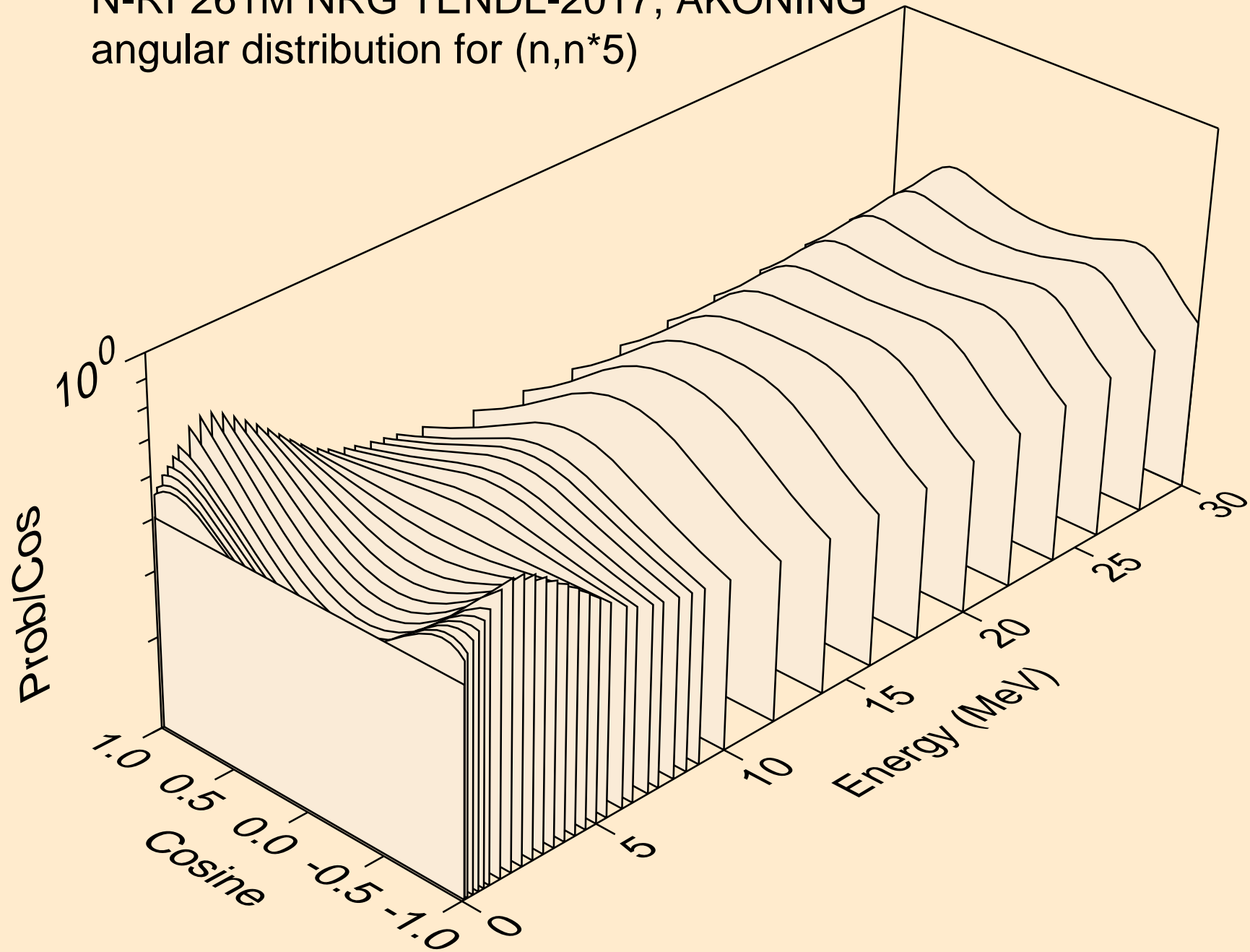angular distribution for (n,n*2)

N-RF261M NRG TENDL-2017, AKONING
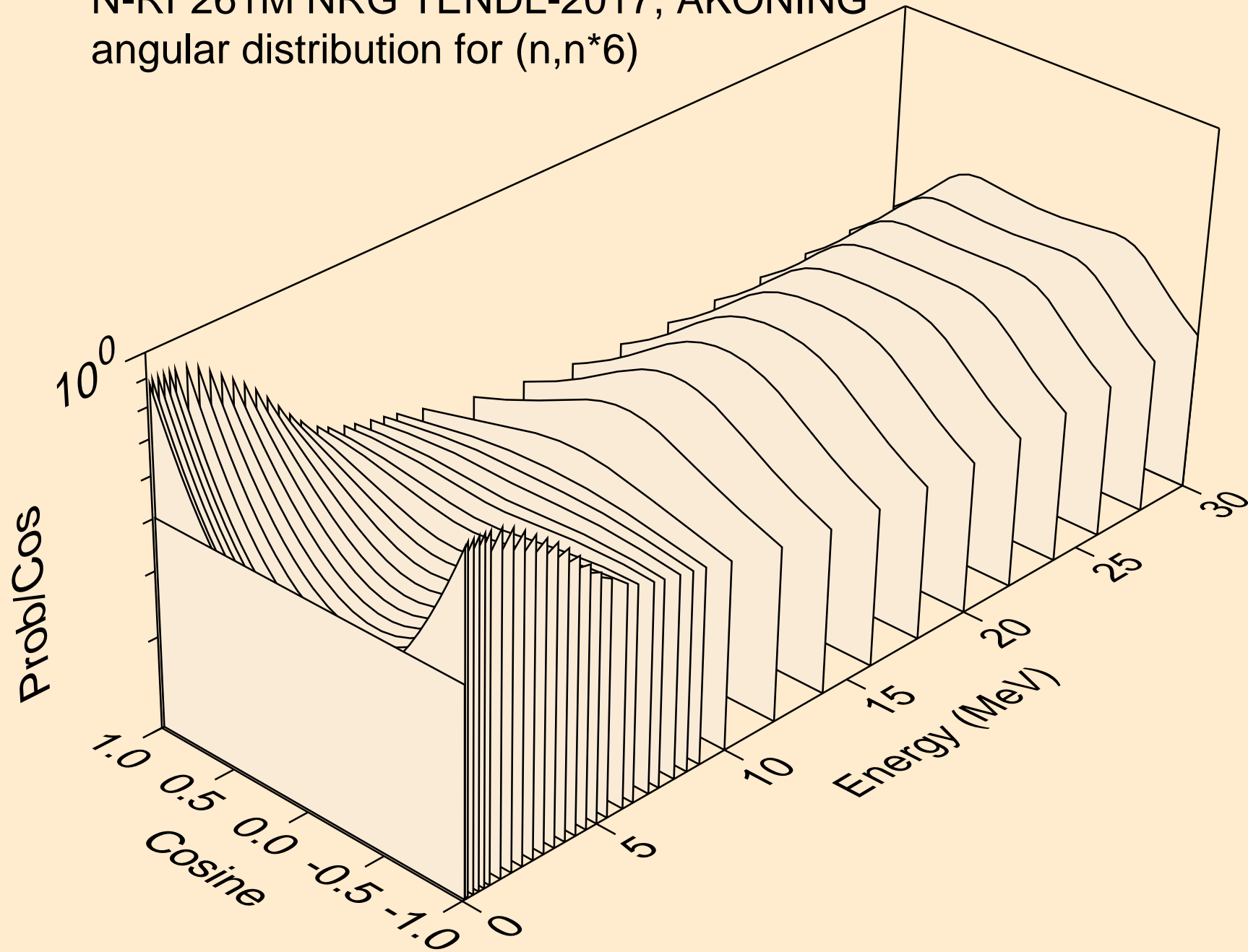angular distribution for (n,n*3)

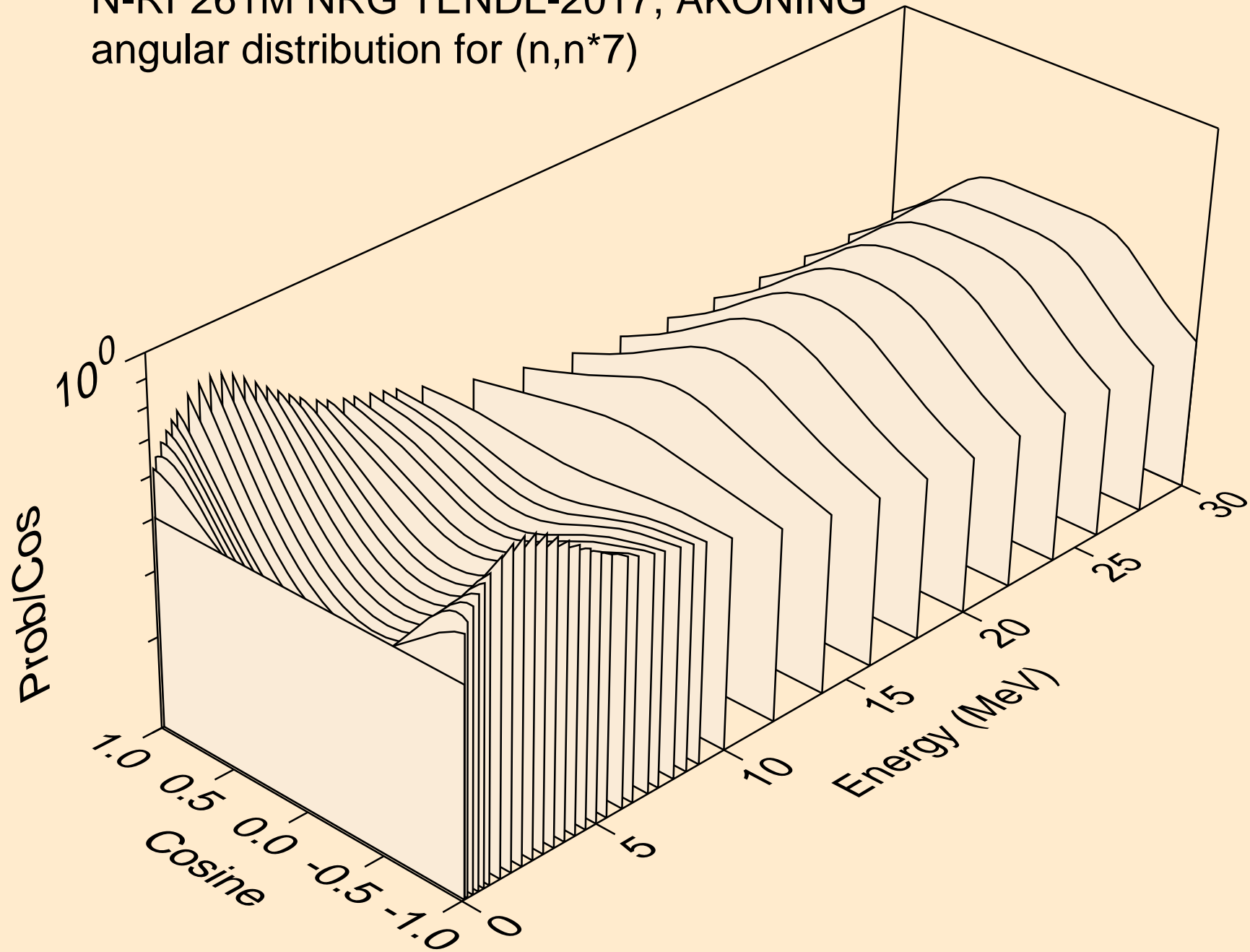N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*4)

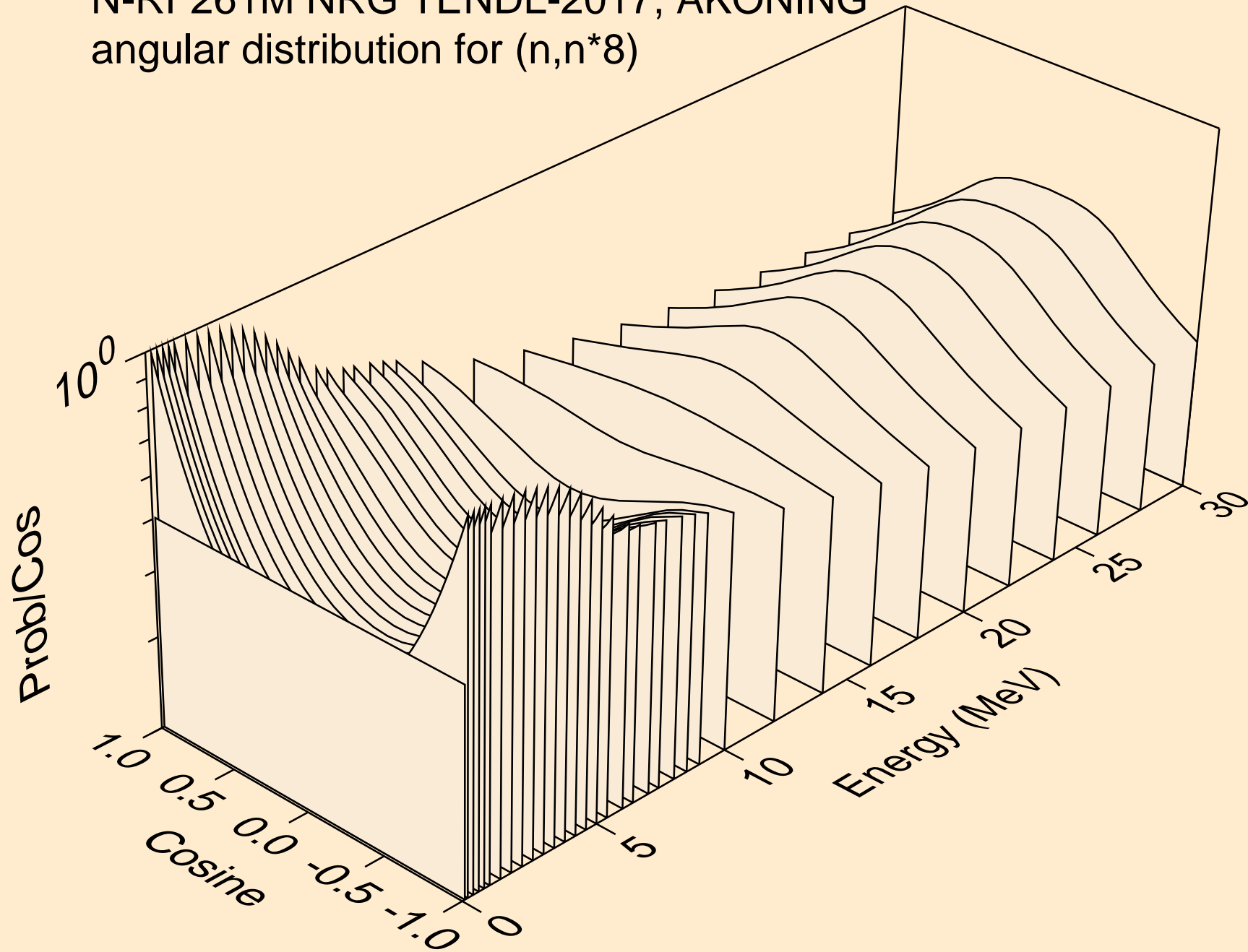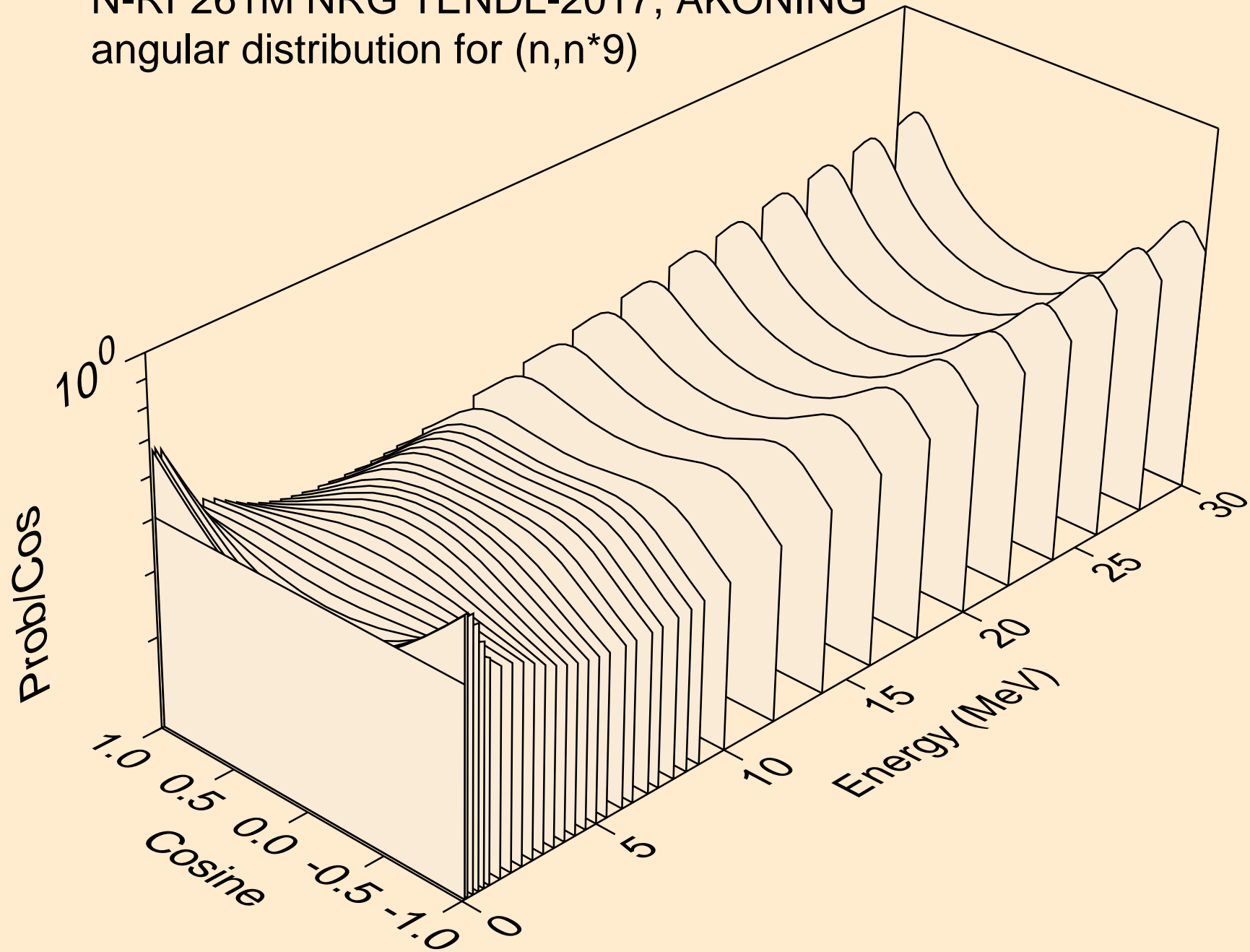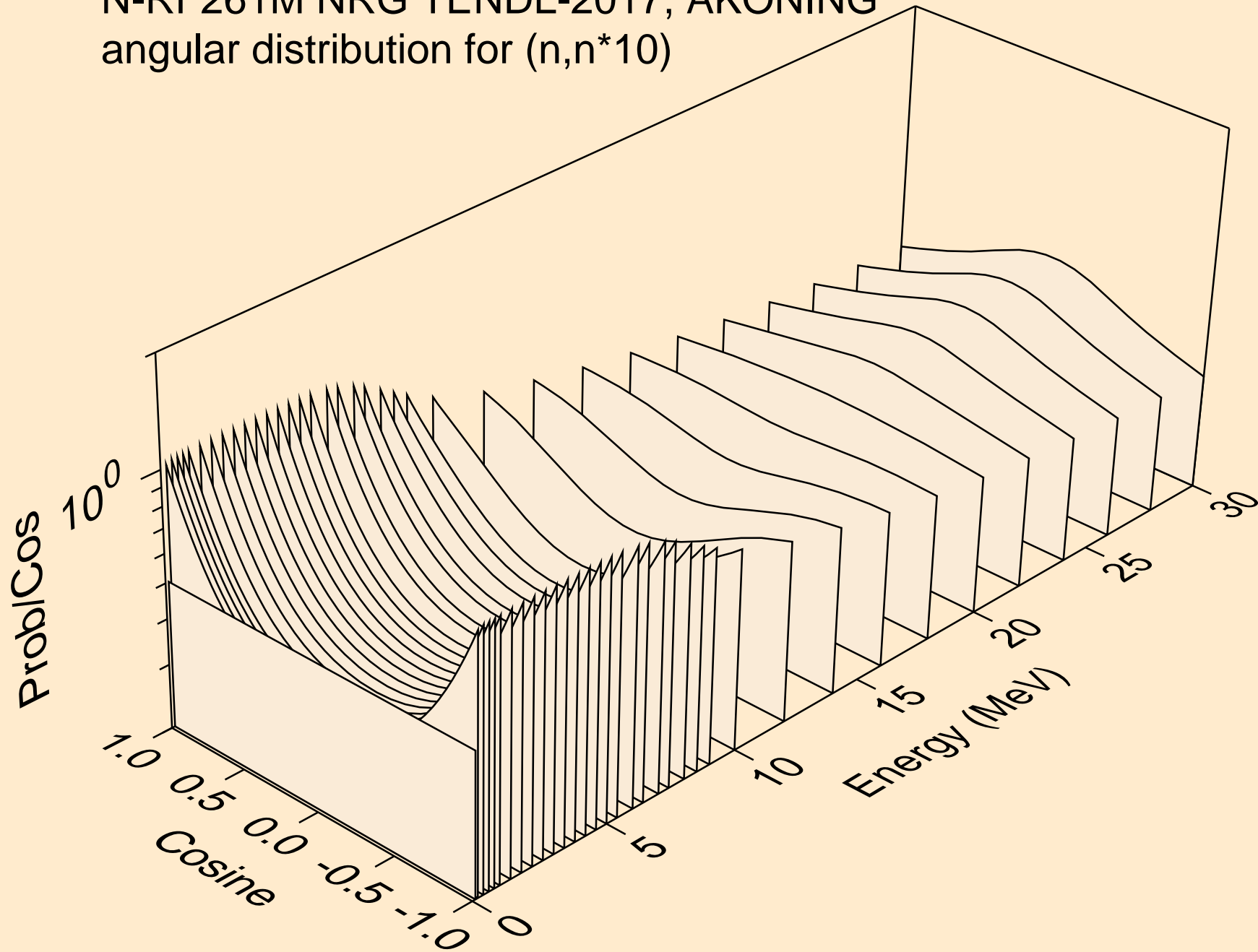N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*5)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*6)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*7)

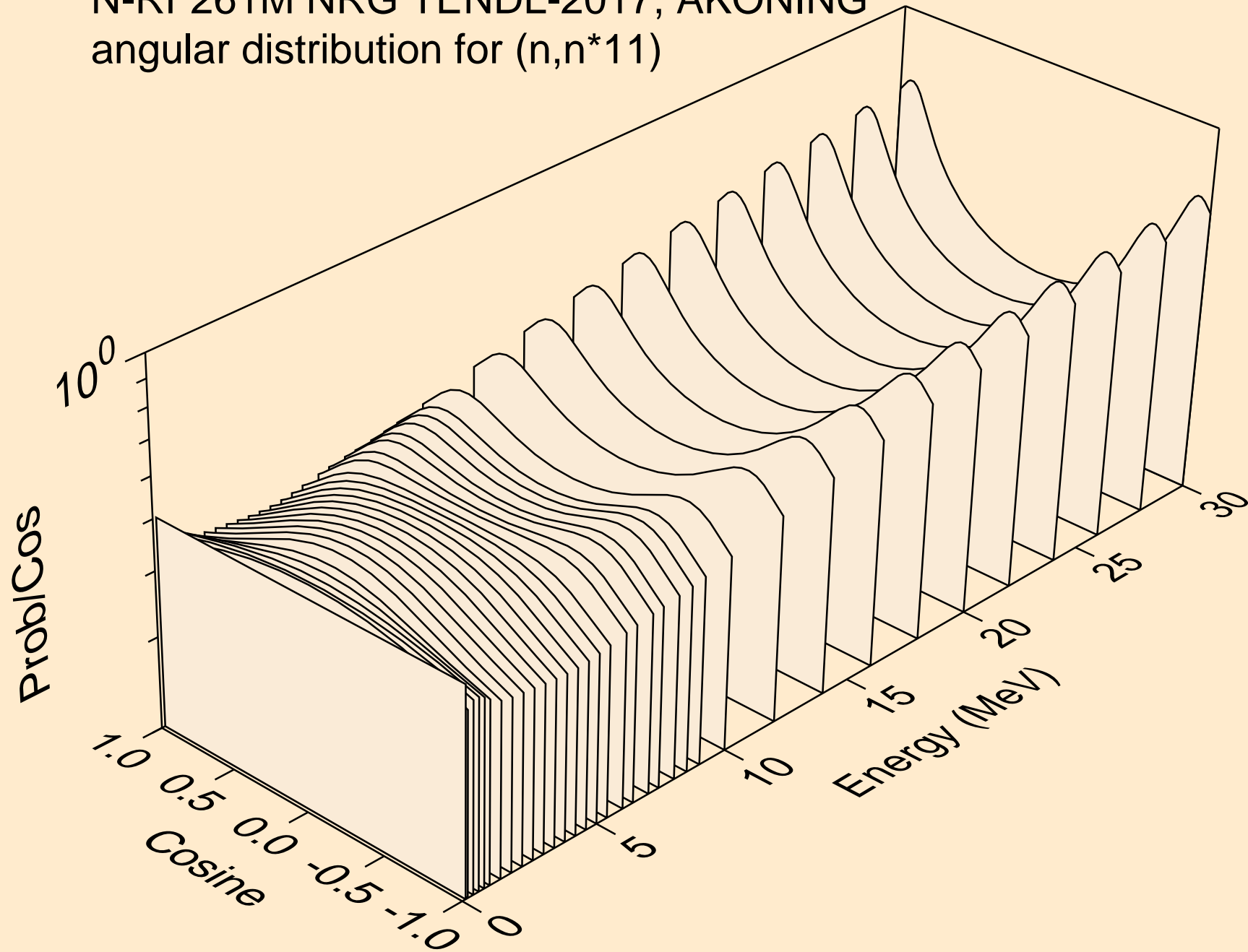N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*8)

N-RF261M NRG TENDL-2017, AKONING
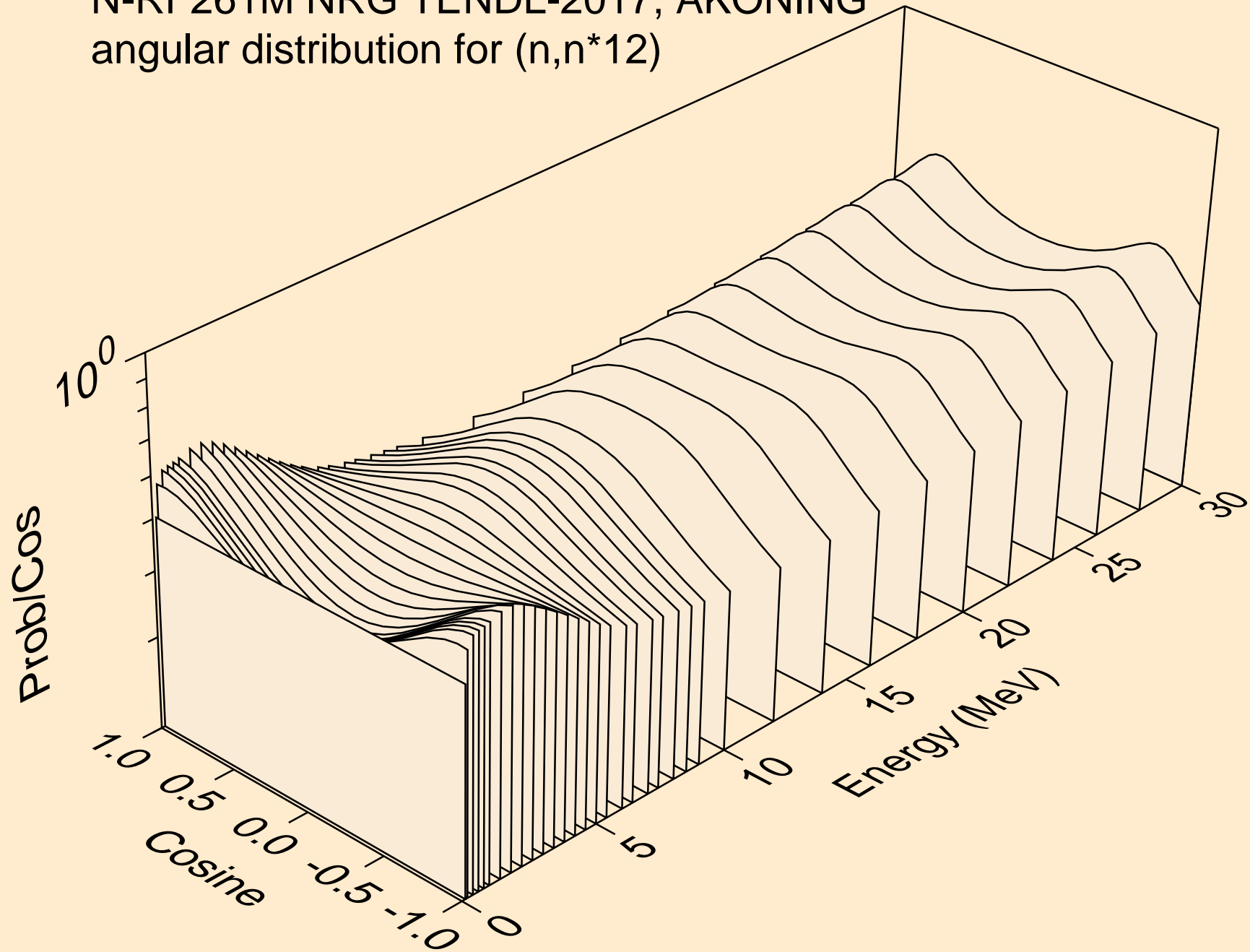angular distribution for (n,n*9)

N-RF261M NRG TENDL-2017, AKONING
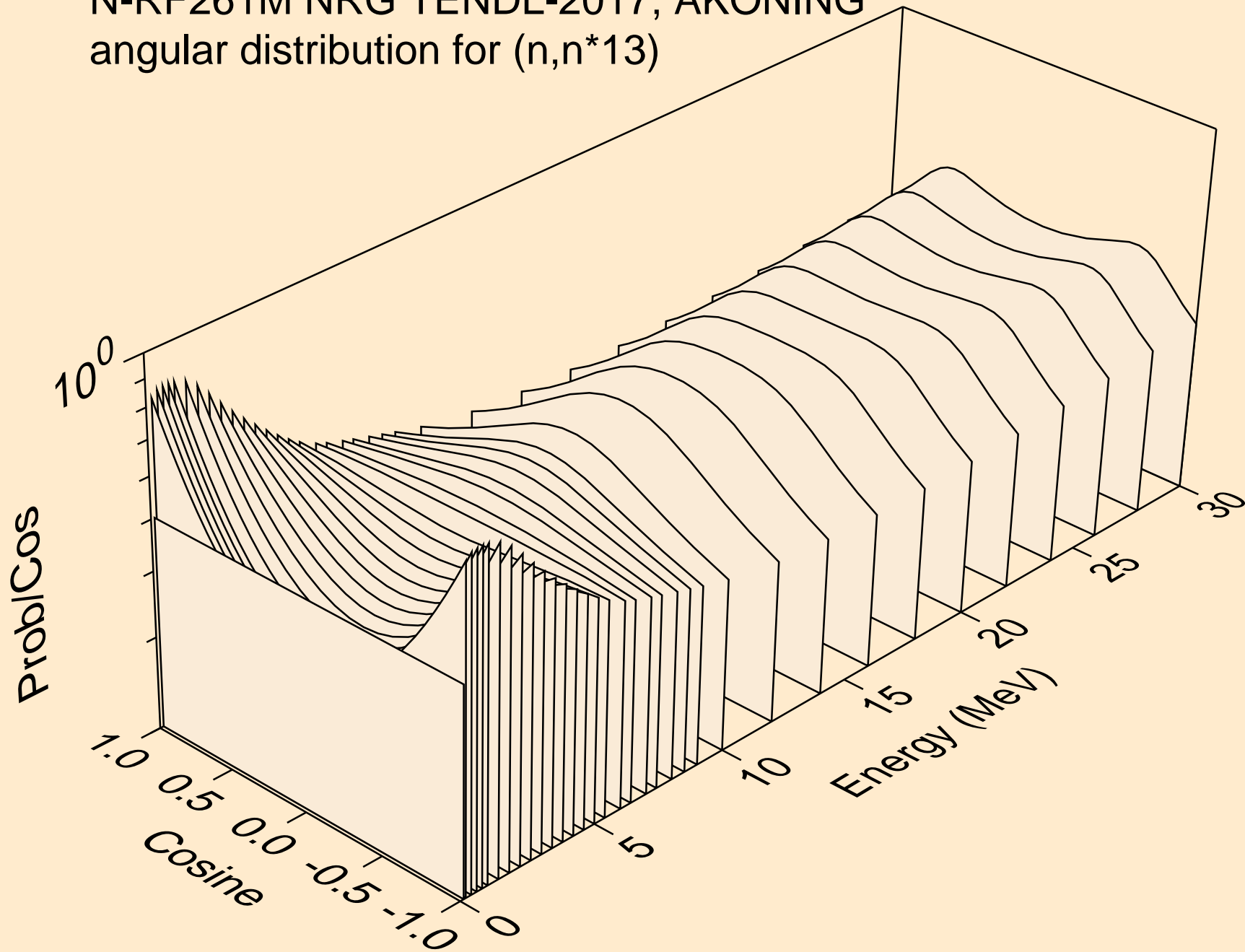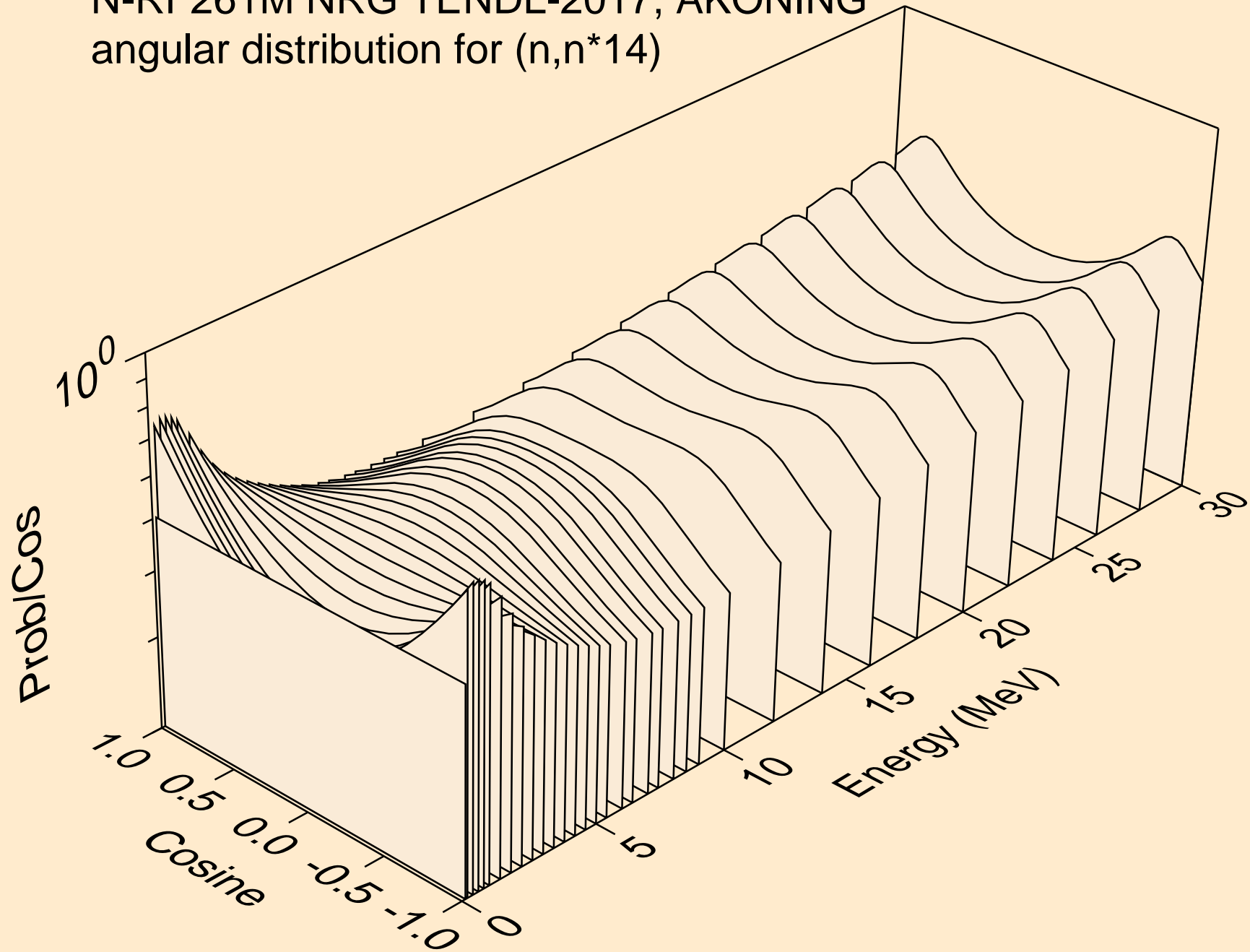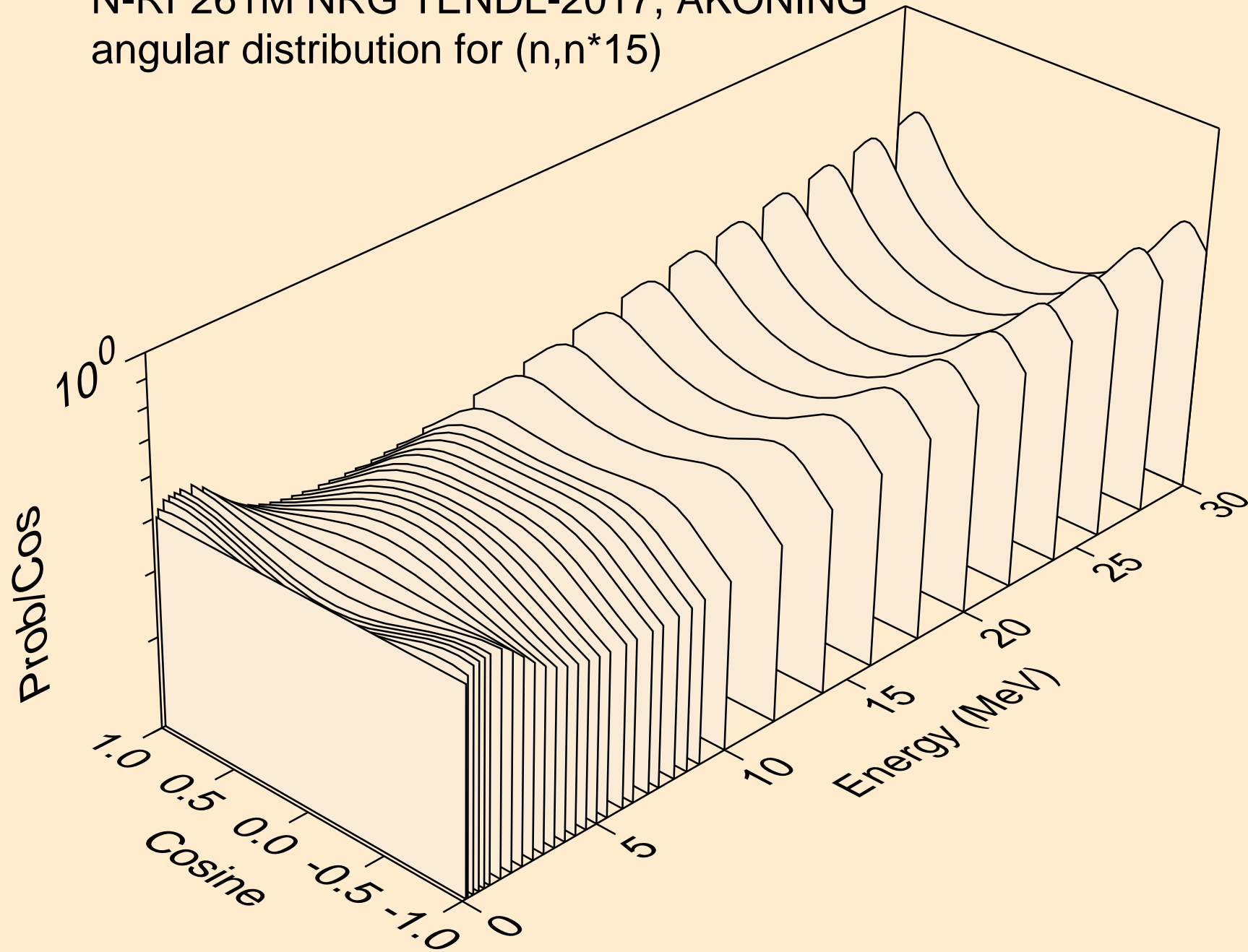angular distribution for (n,n*10)

ProbICos

$10^0$

Cosine

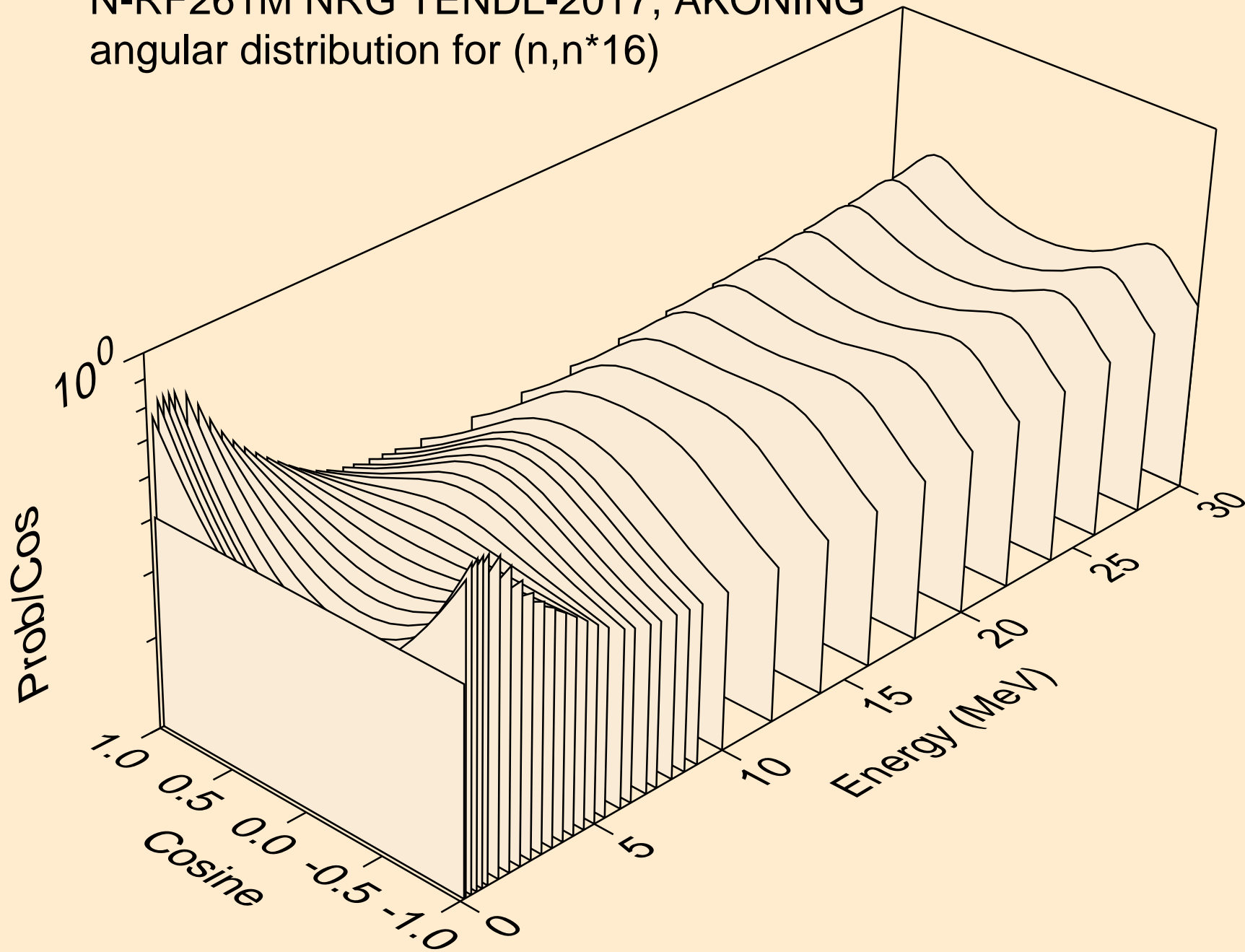1.0  0.5  0.0  -0.5  -1.0
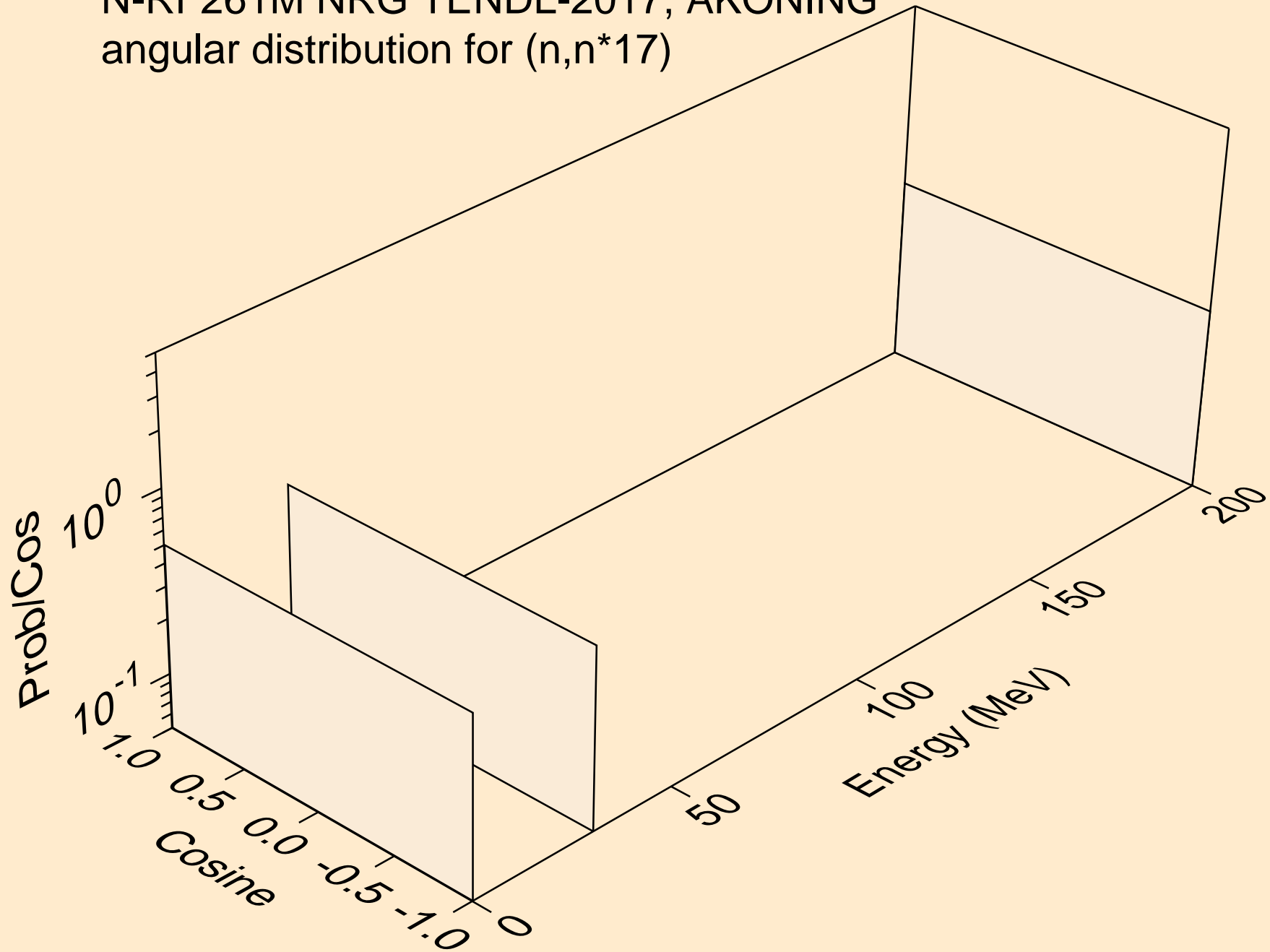
Energy (MeV)

0  5  10  15  20  25  30

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*11)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*12)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*13)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*14)

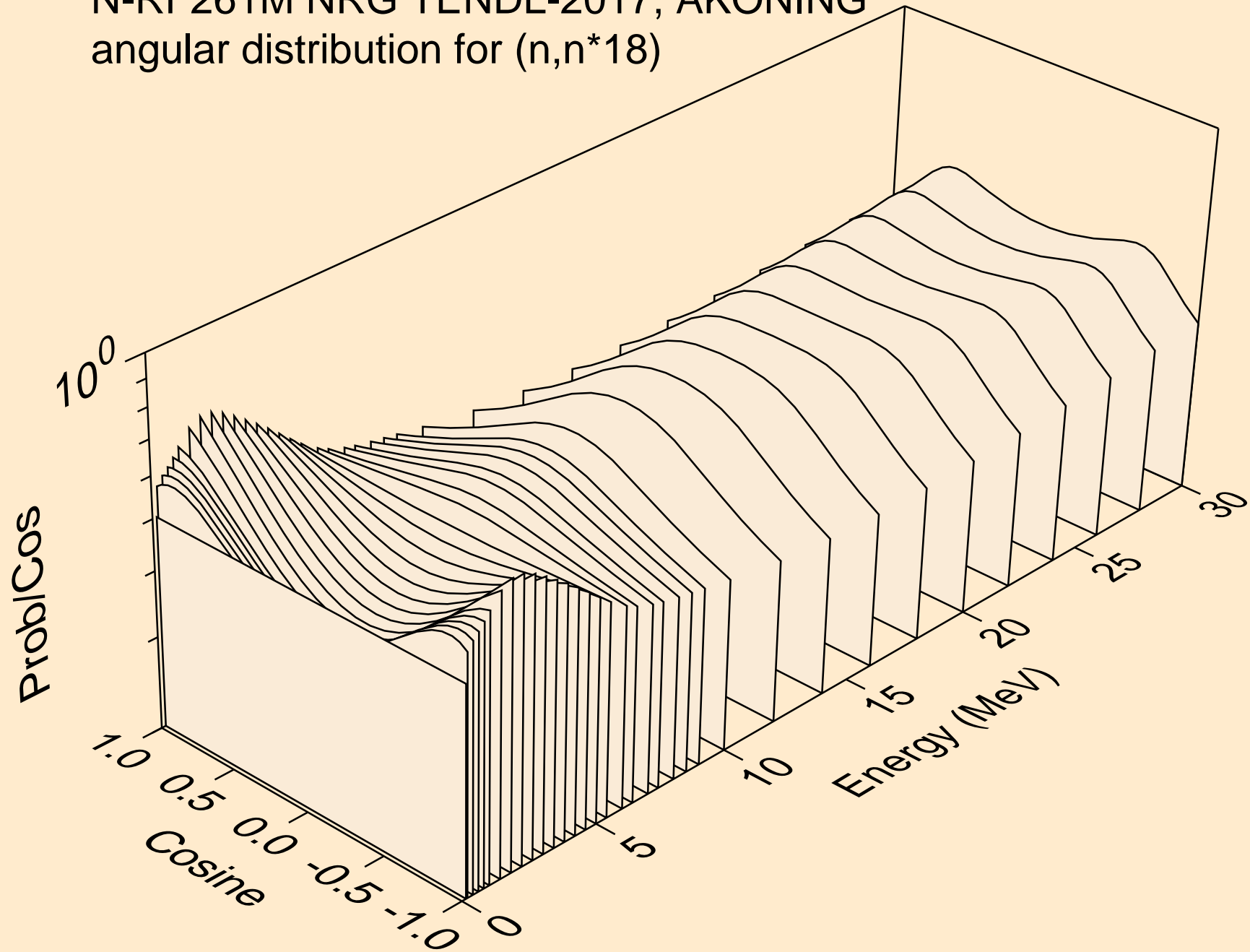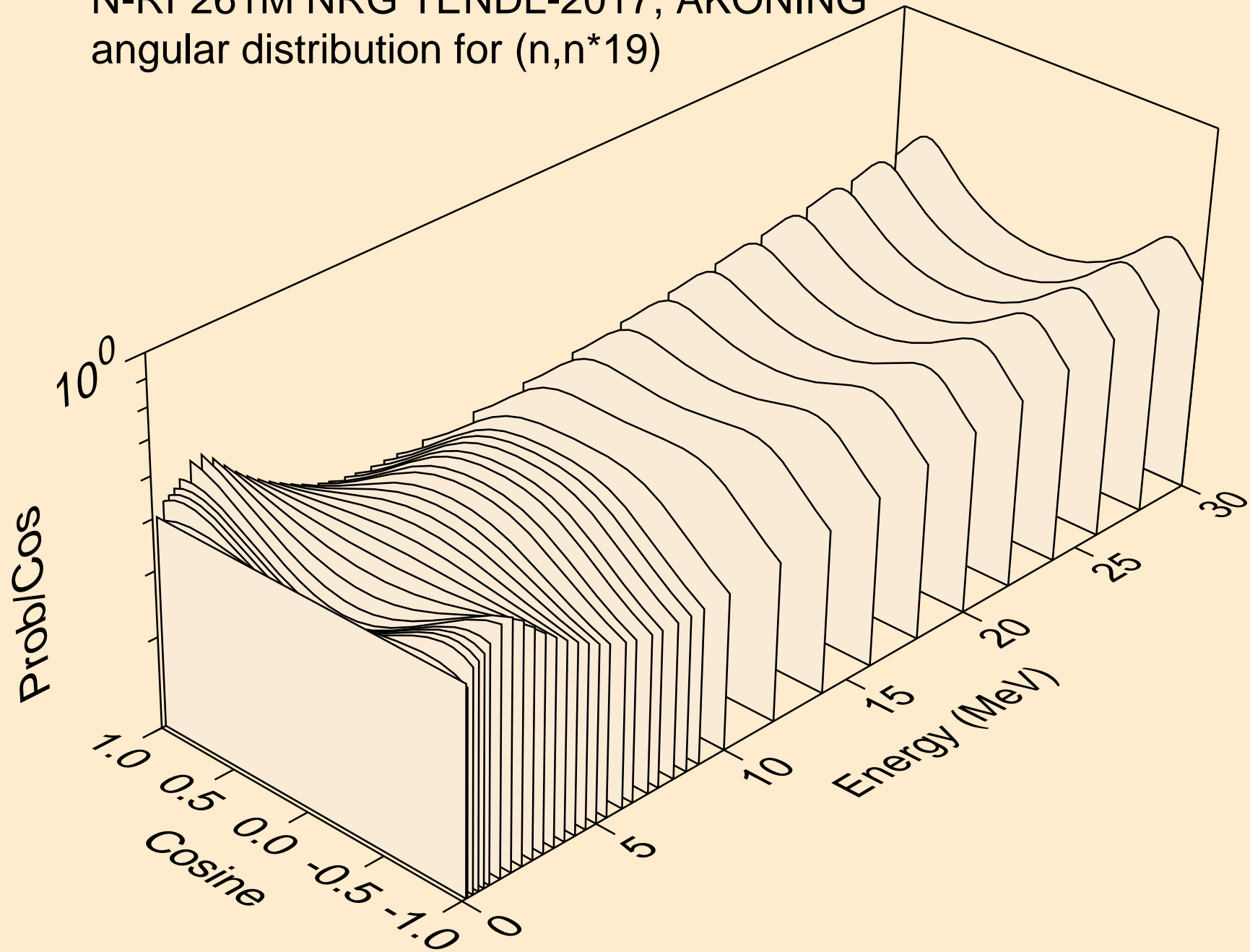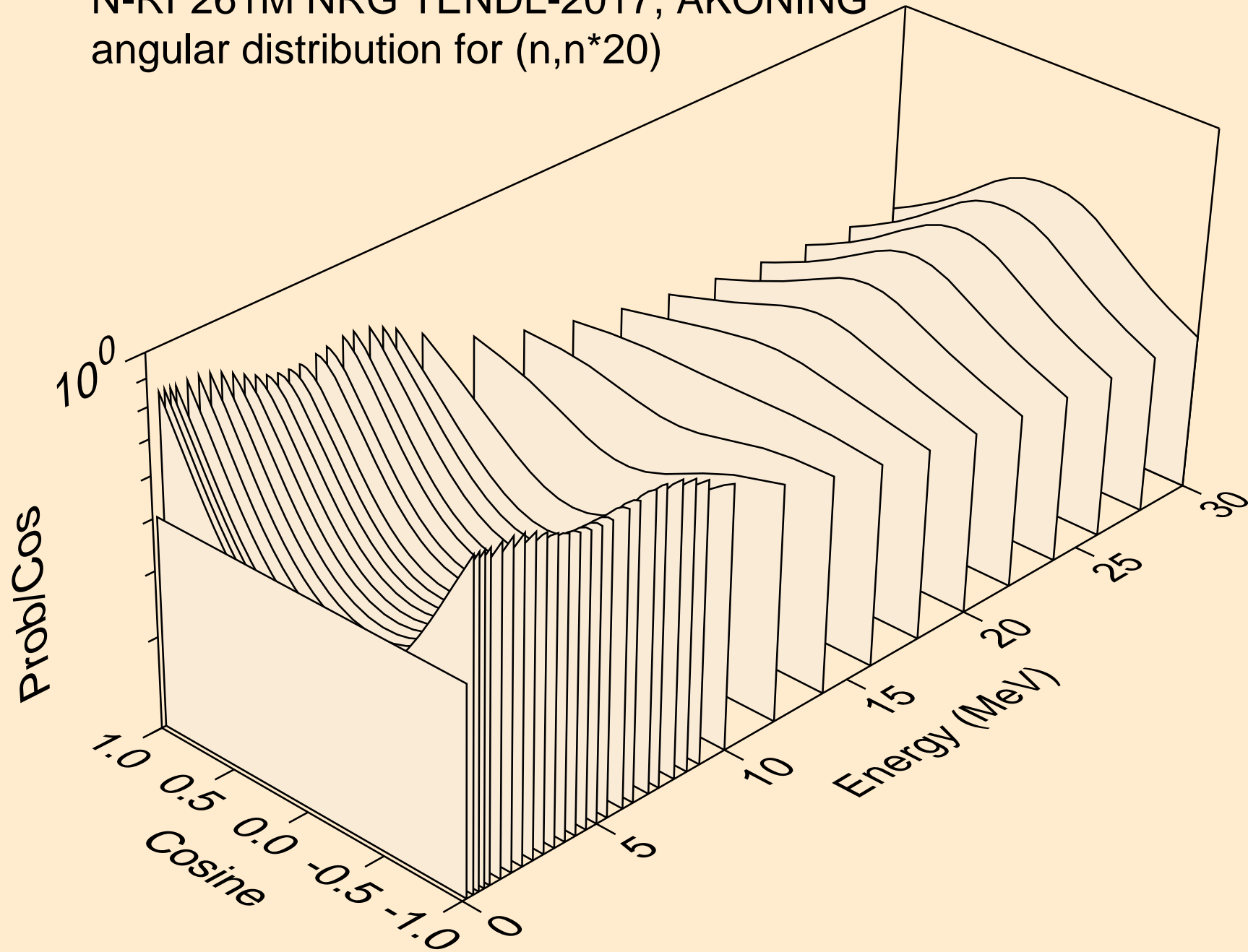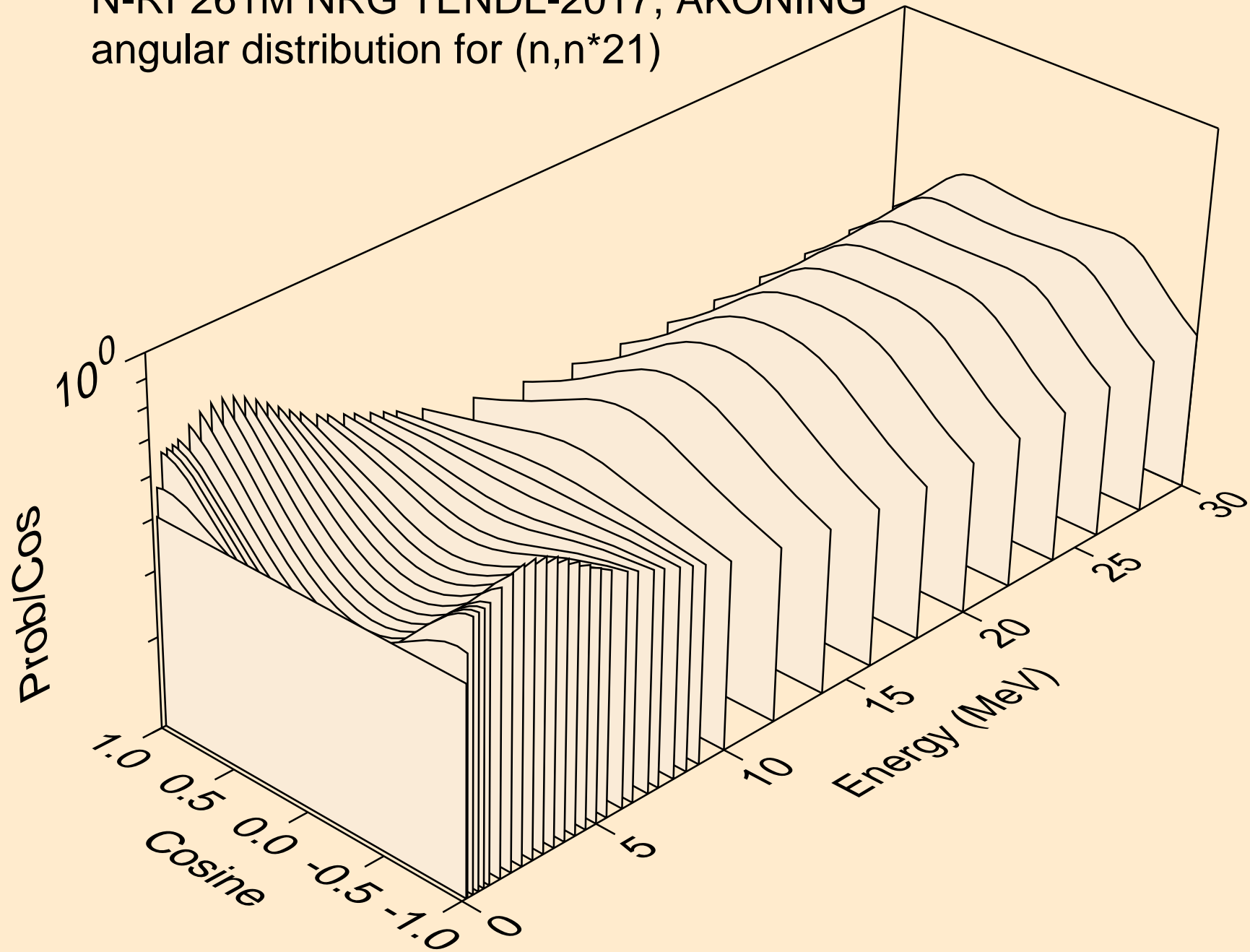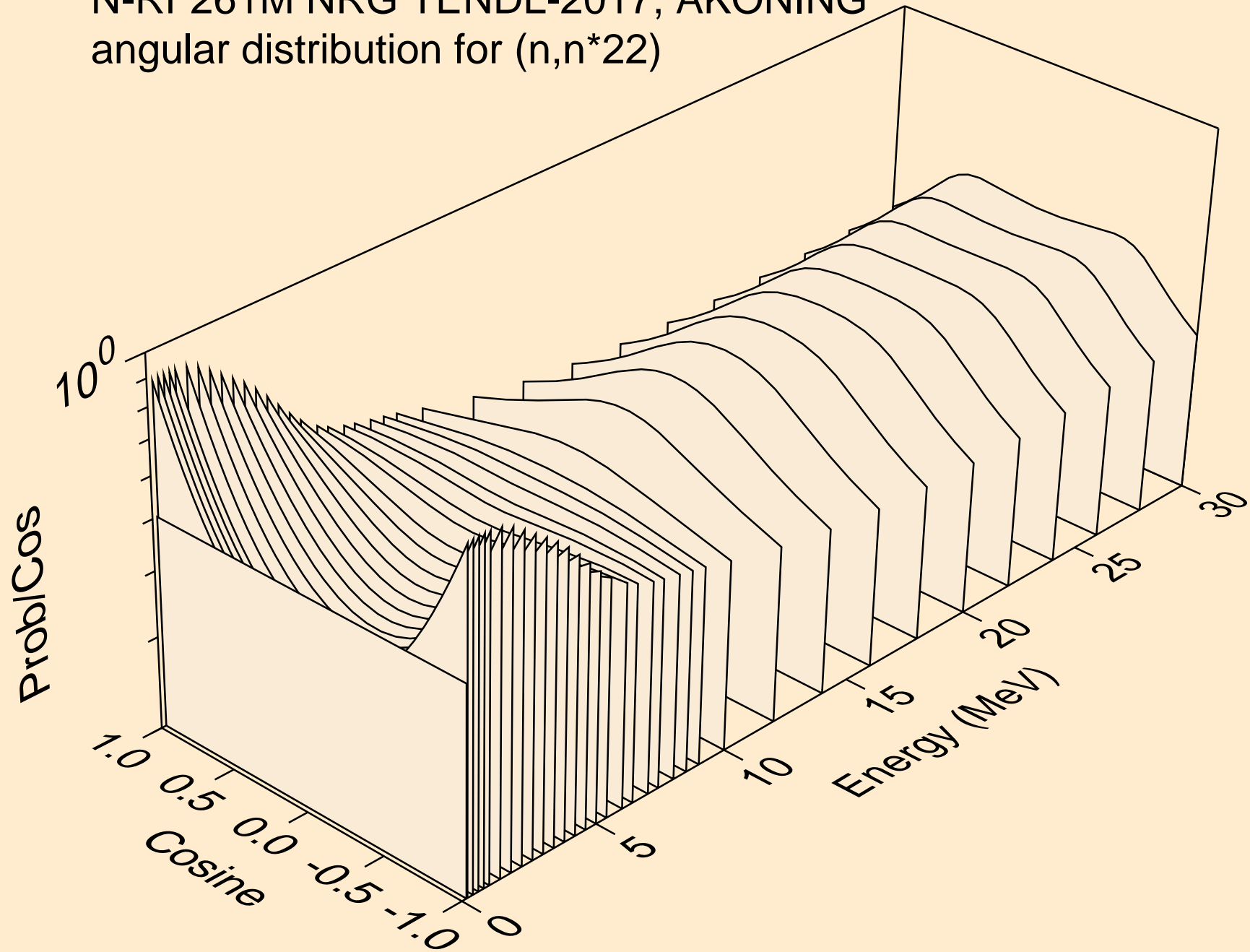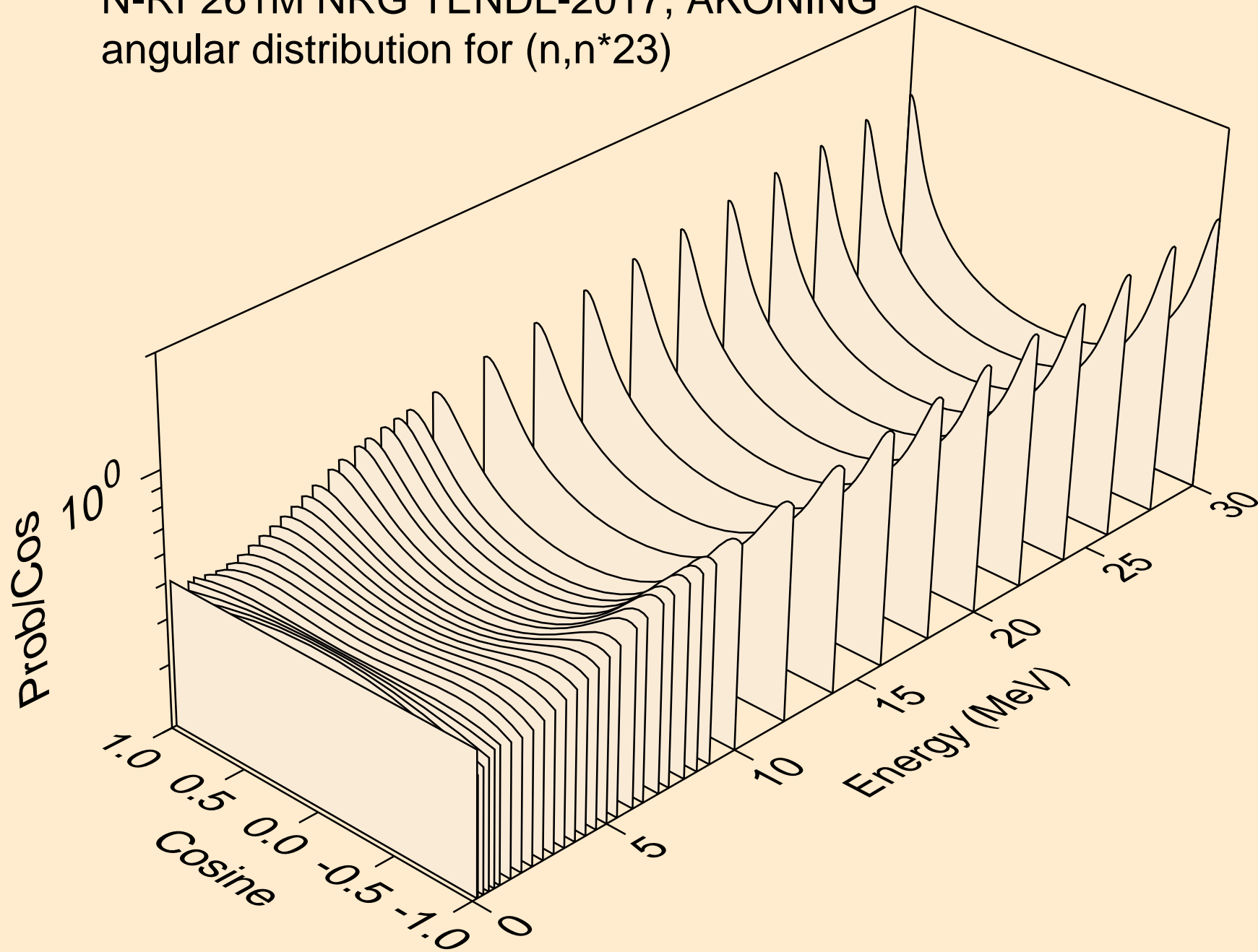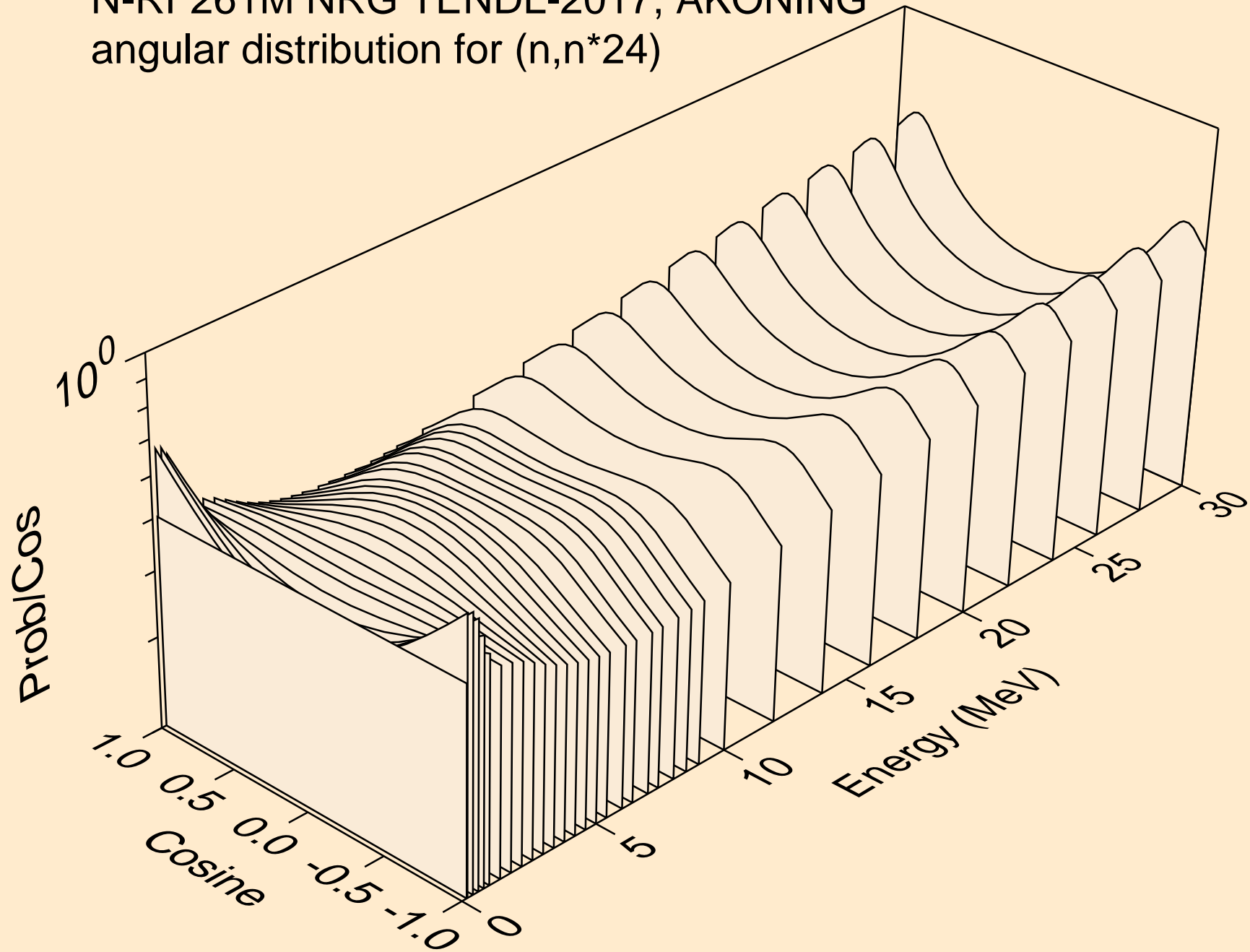N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*15)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*16)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*17)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*18)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*19)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*20)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*21)

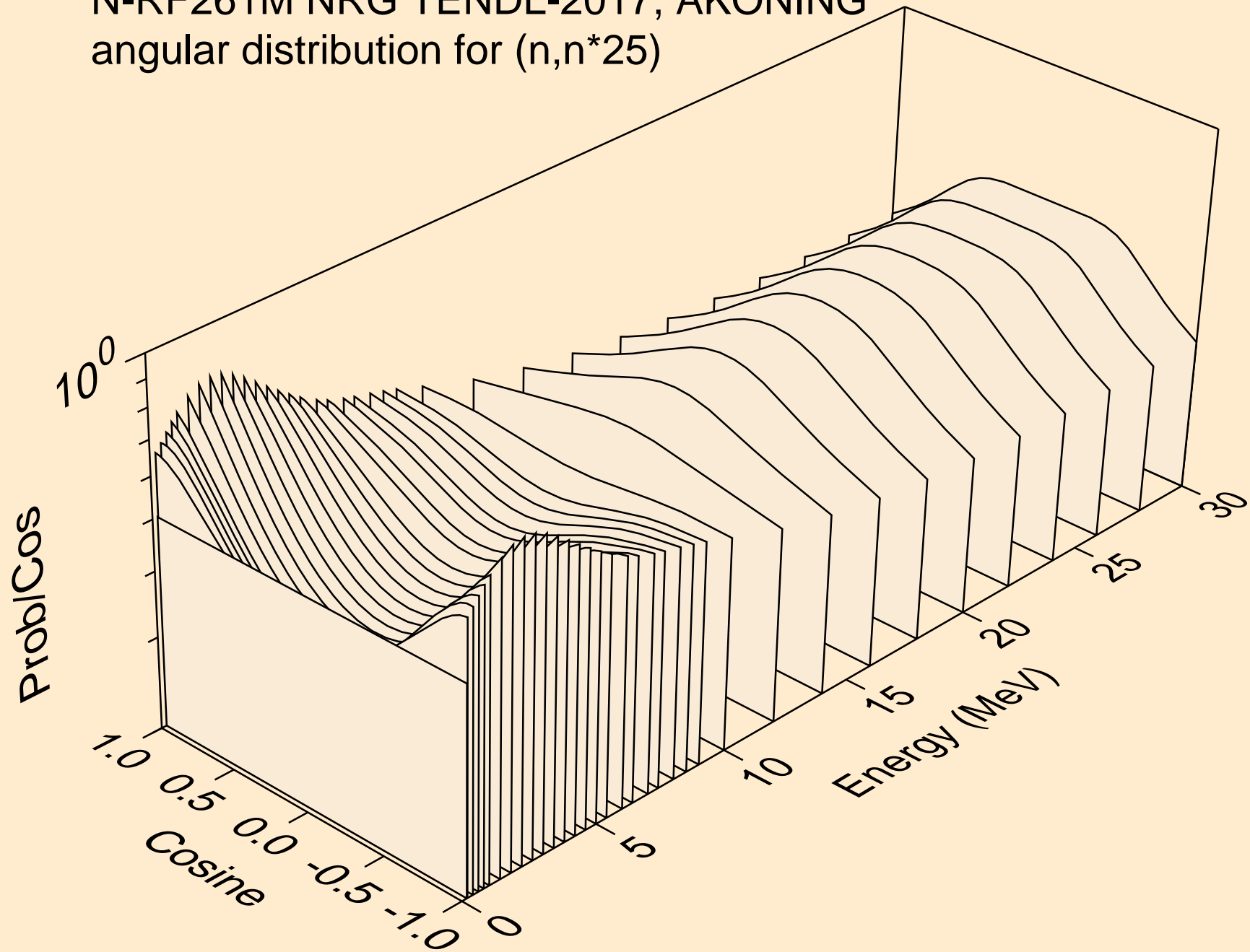N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*22)

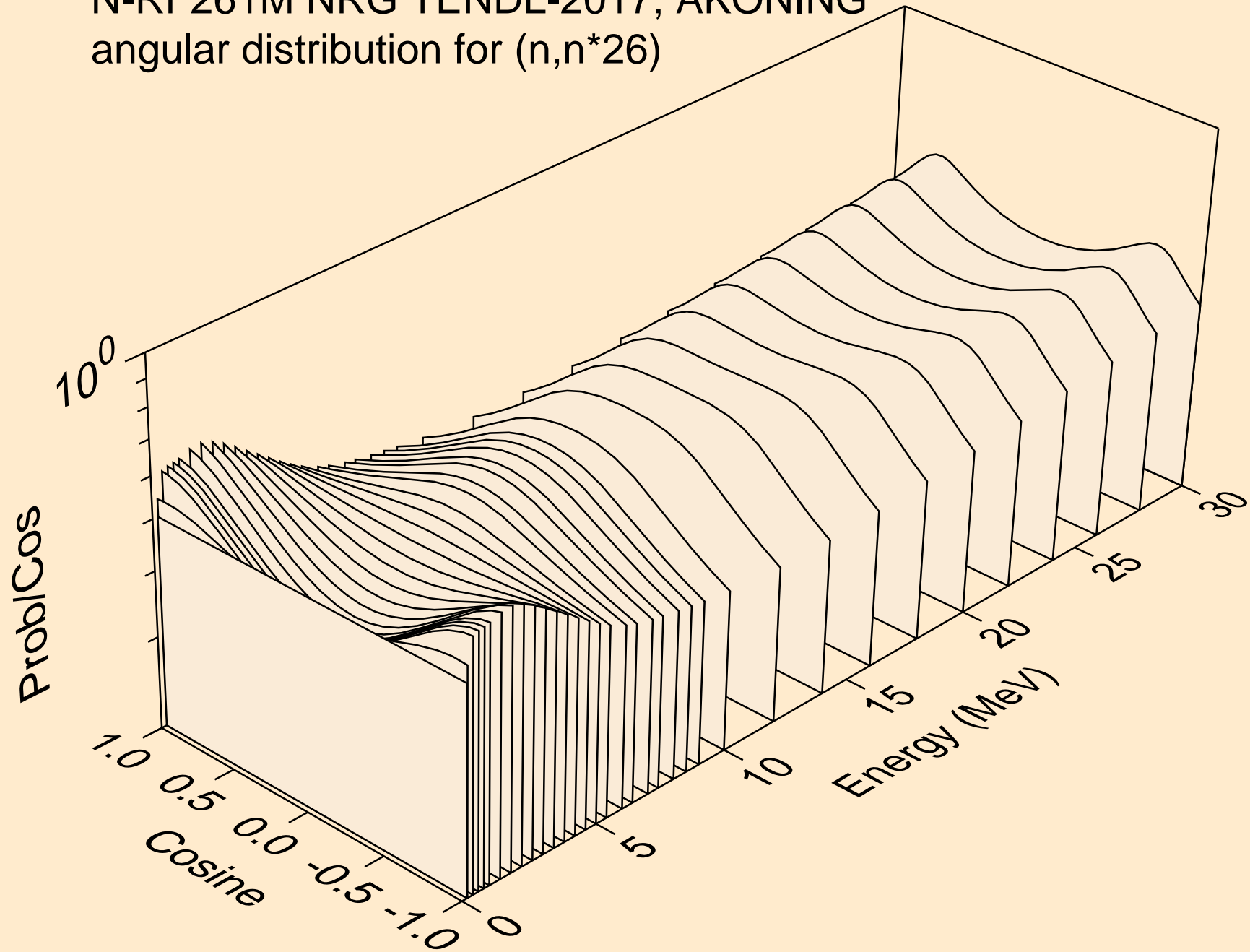N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*23)

N-RF261M NRG TENDL-2017, AKONING
angular distribution for (n,n*24)

N-RF261M NRG TENDL-2017, AKONING
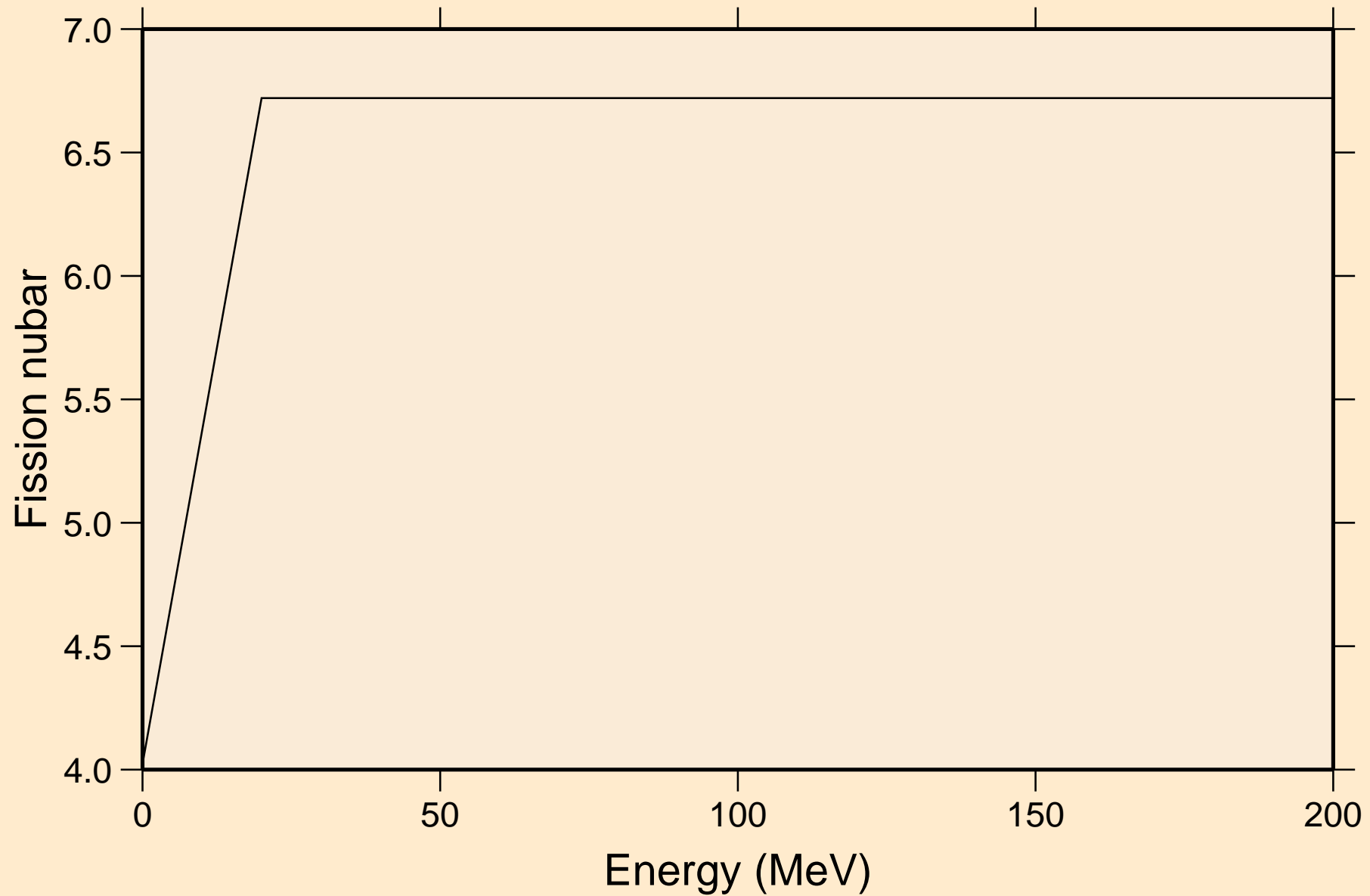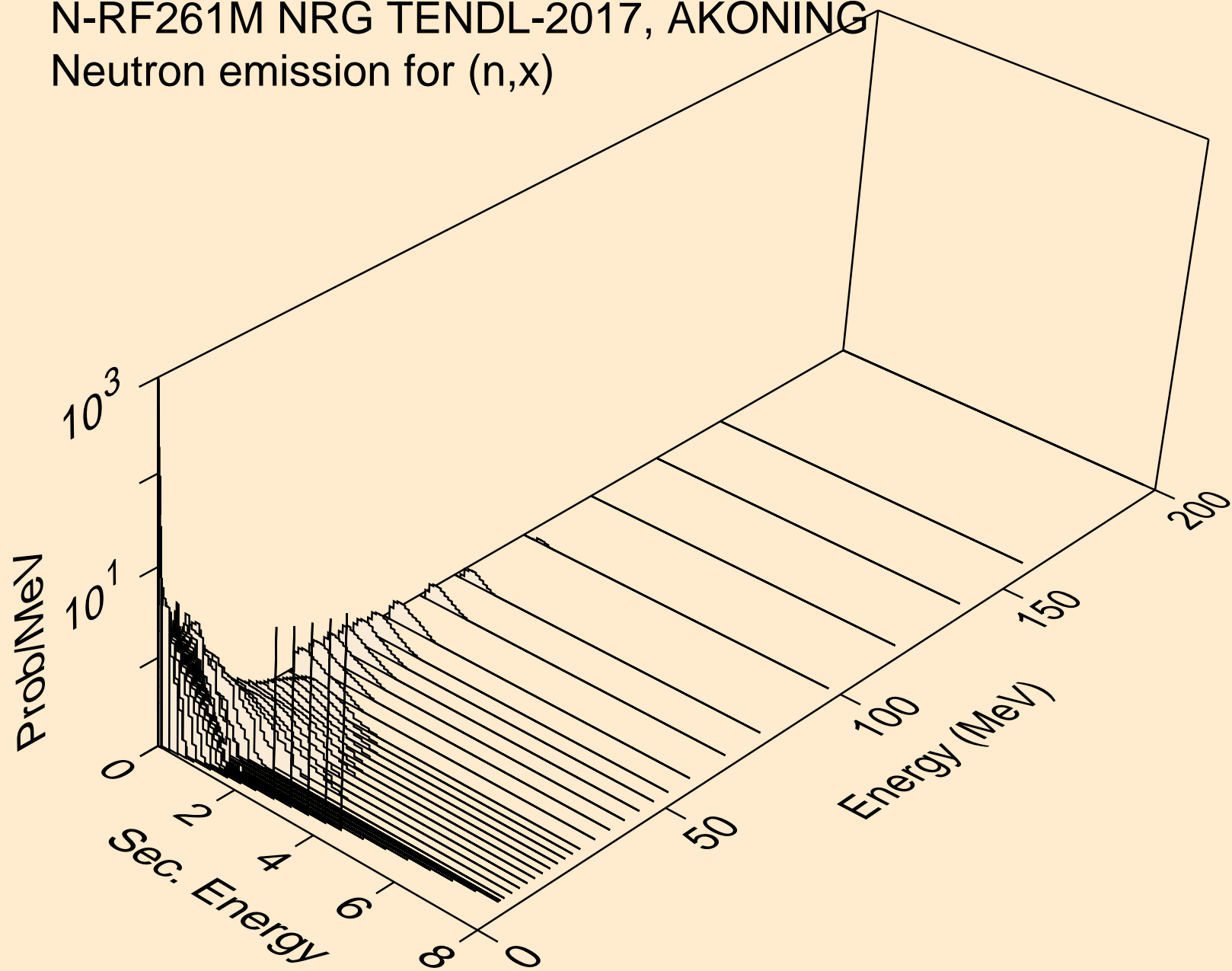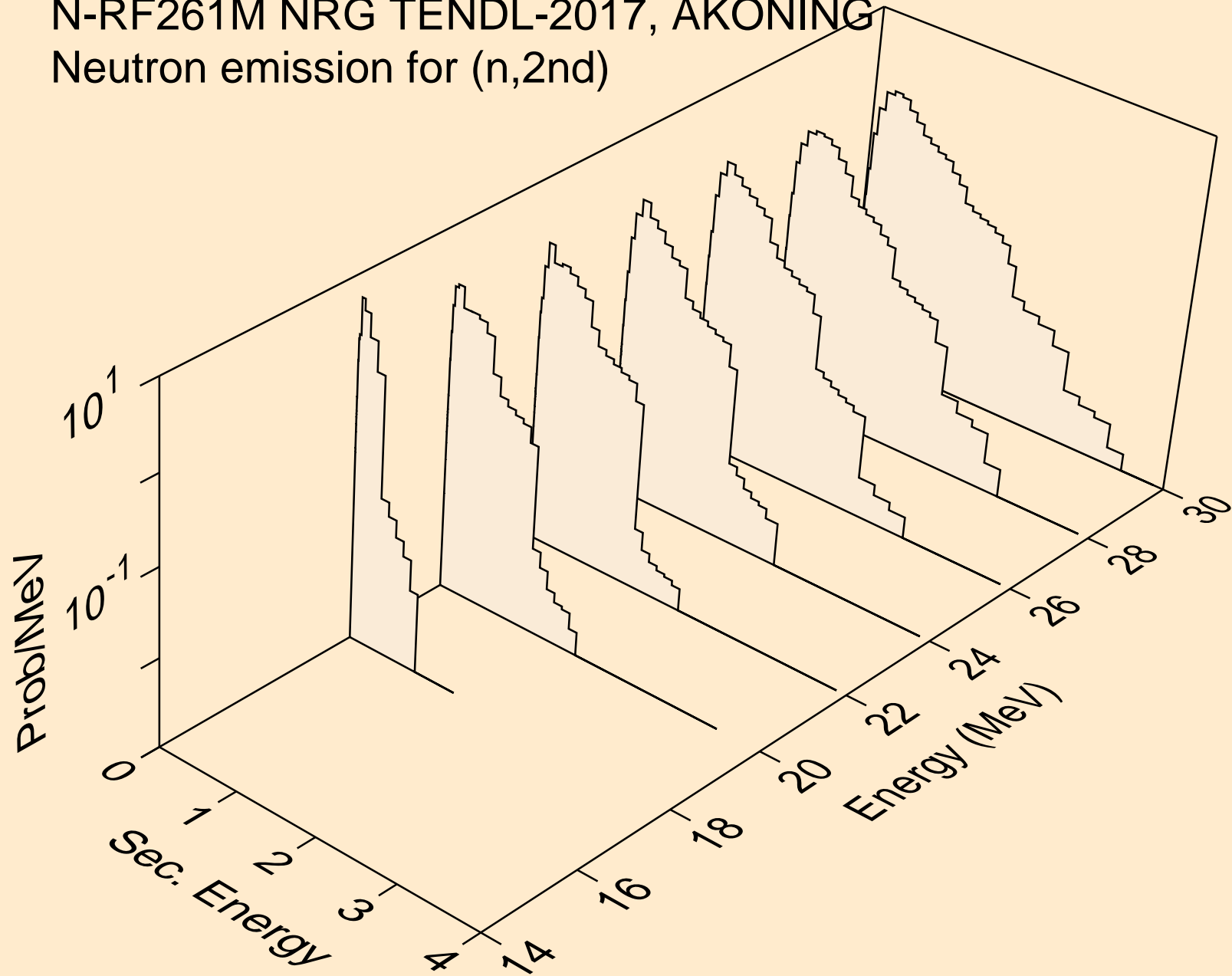angular distribution for (n,n*25)

N-RF261M NRG TENDL-2017, AKONING
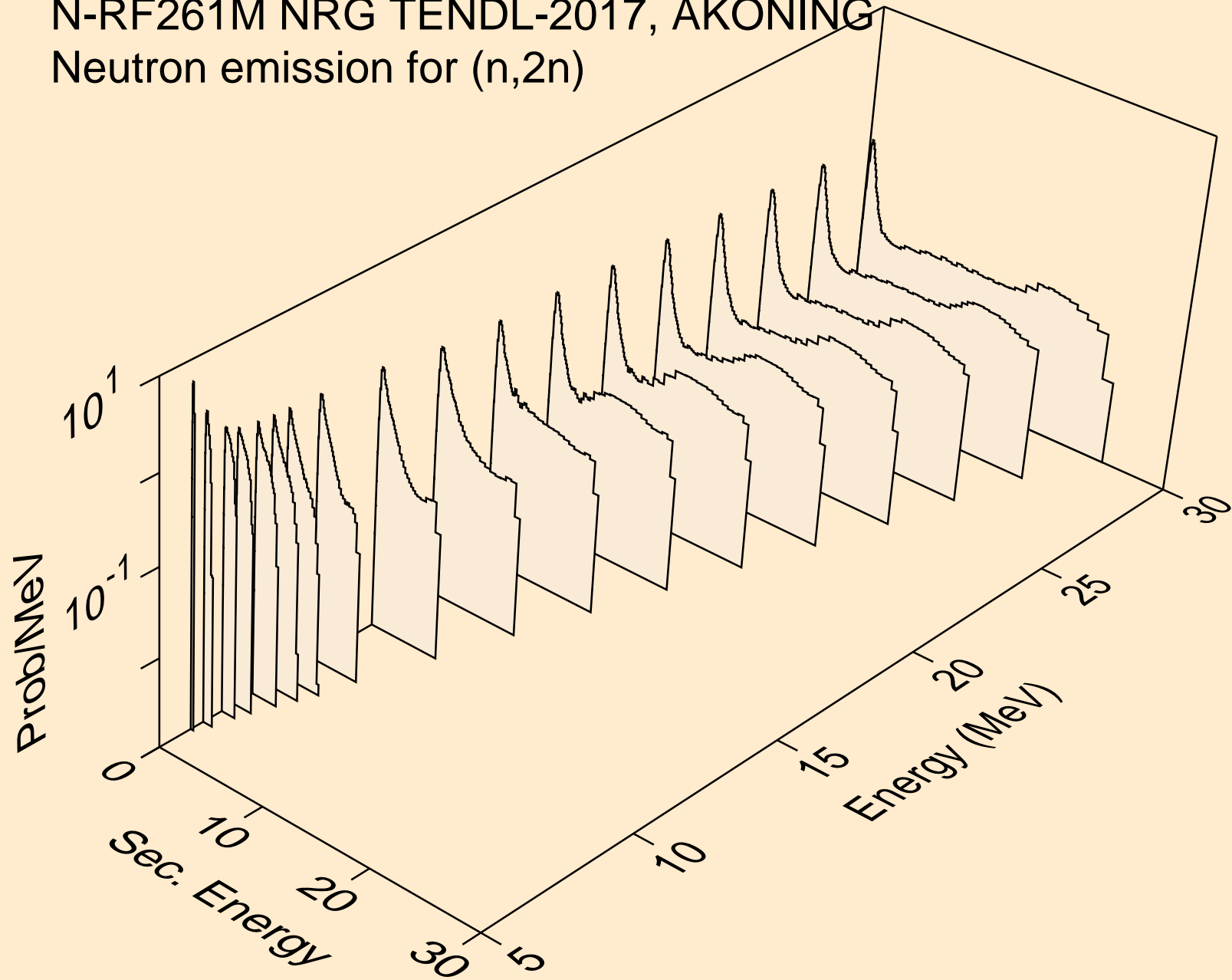angular distribution for (n,n*26)
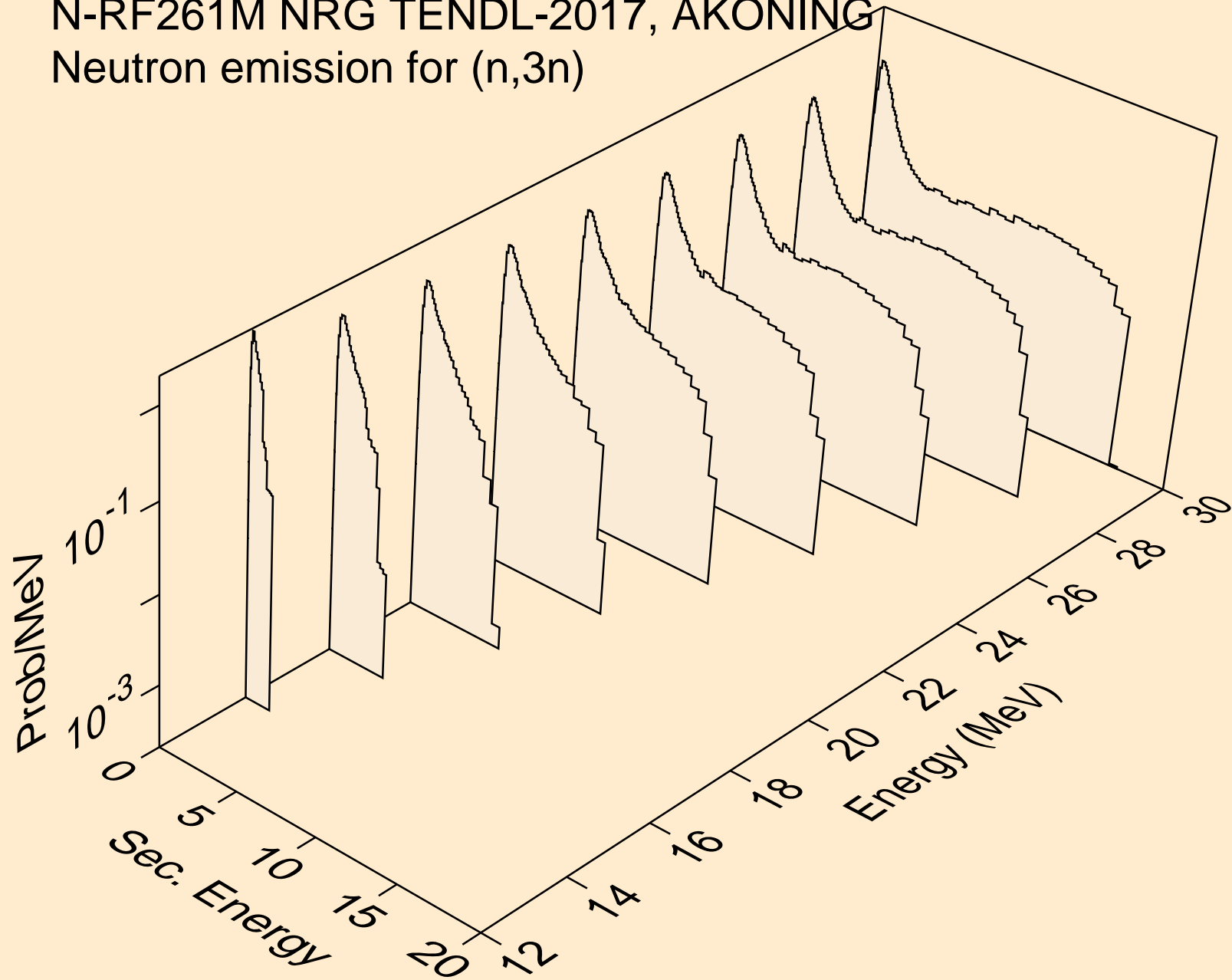
N-RF261M NRG TENDL-2017, AKONING
Total fission nubar

N-RF261M NRG TENDL-2017, AKONING
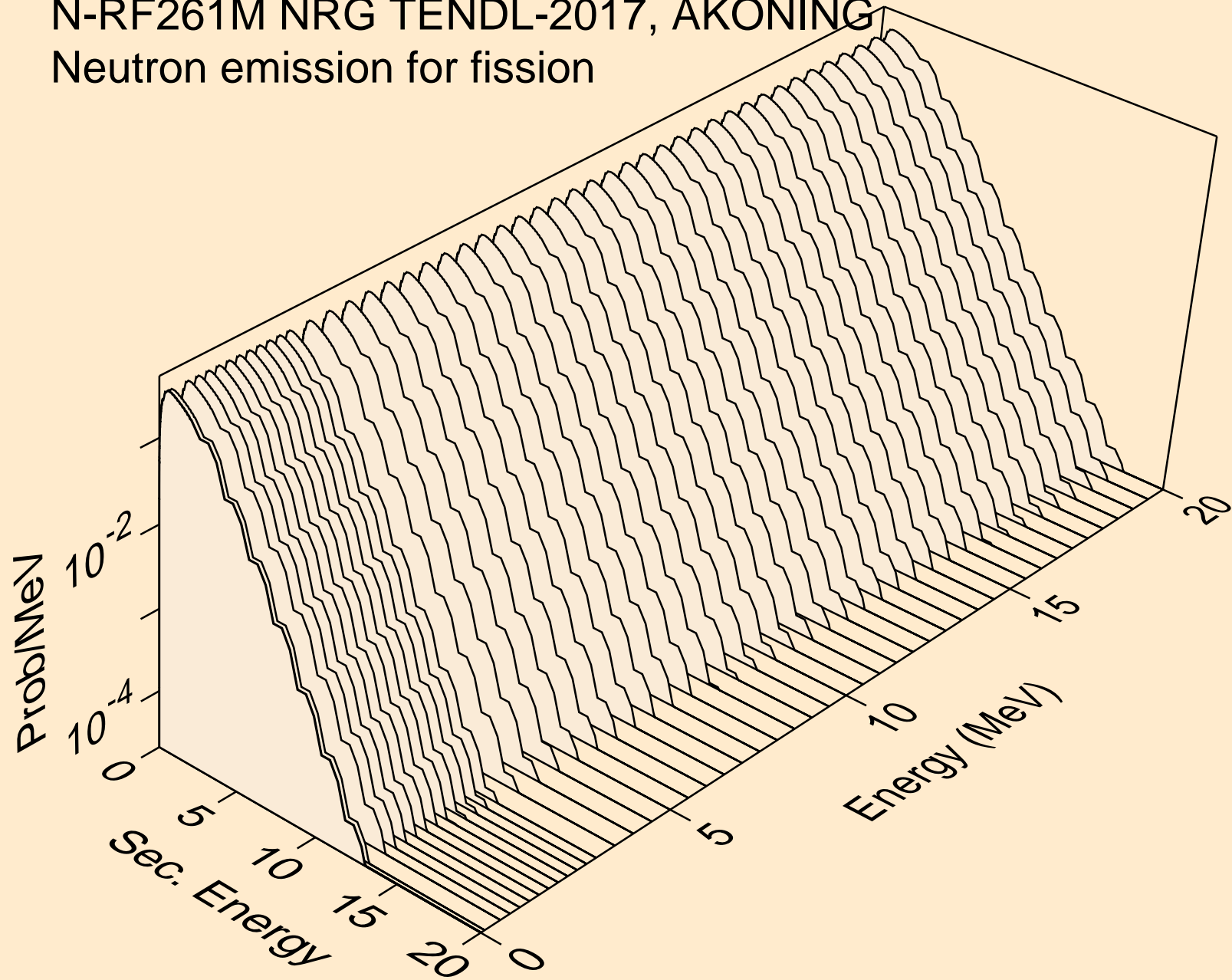Neutron emission for (n,x)

N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,2nd)

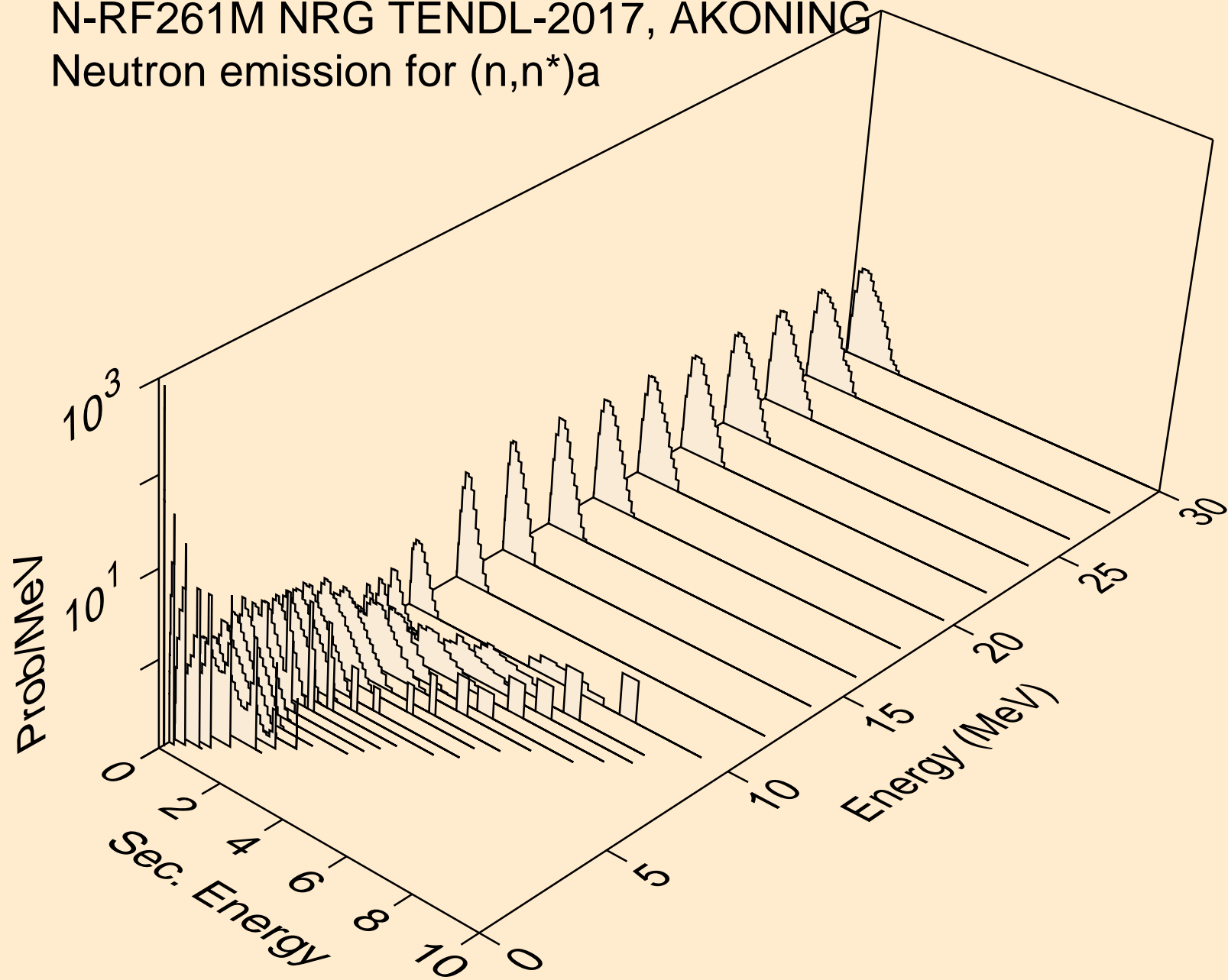N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,2n)

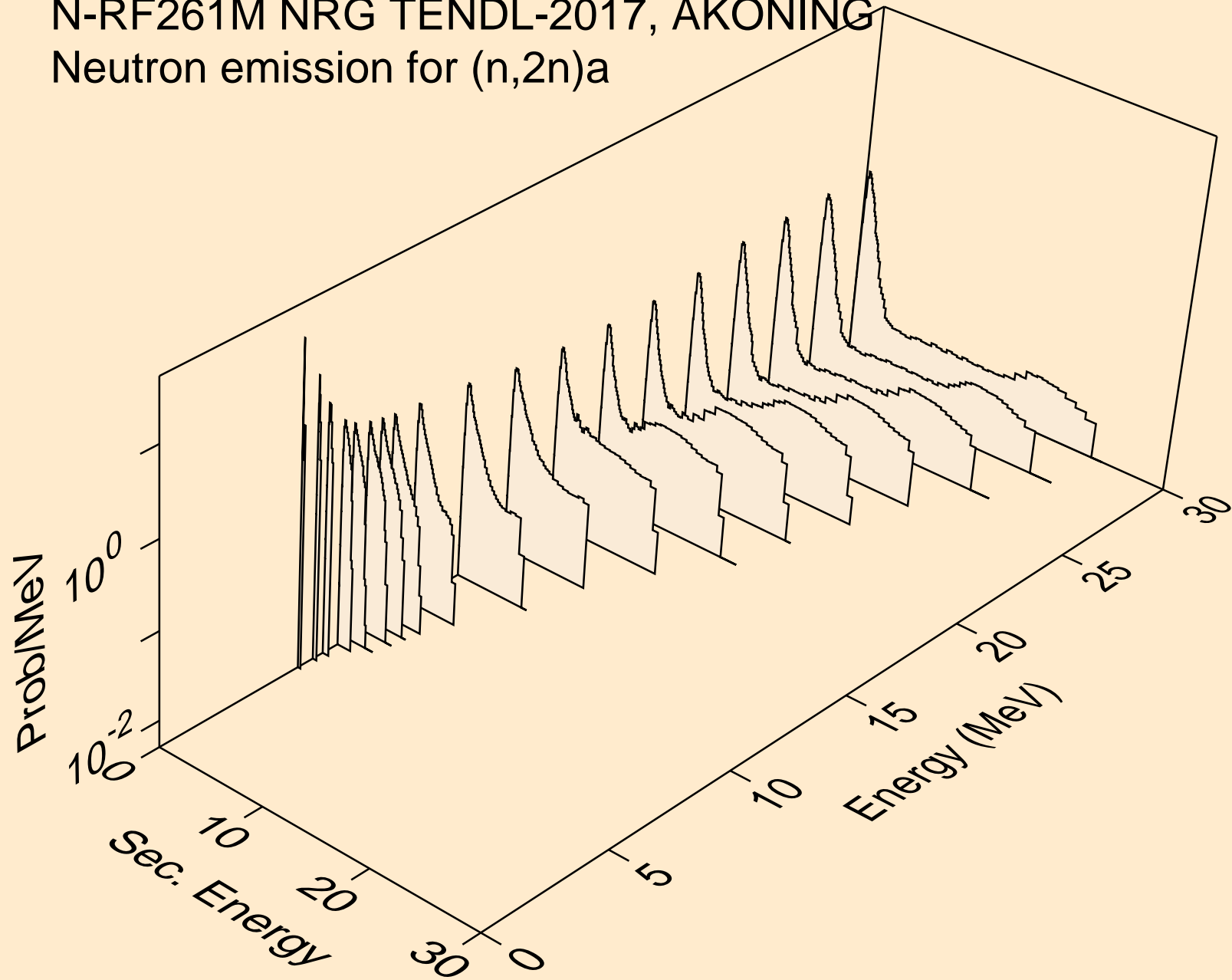N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,3n)

N-RF261M NRG TENDL-2017, AKONING
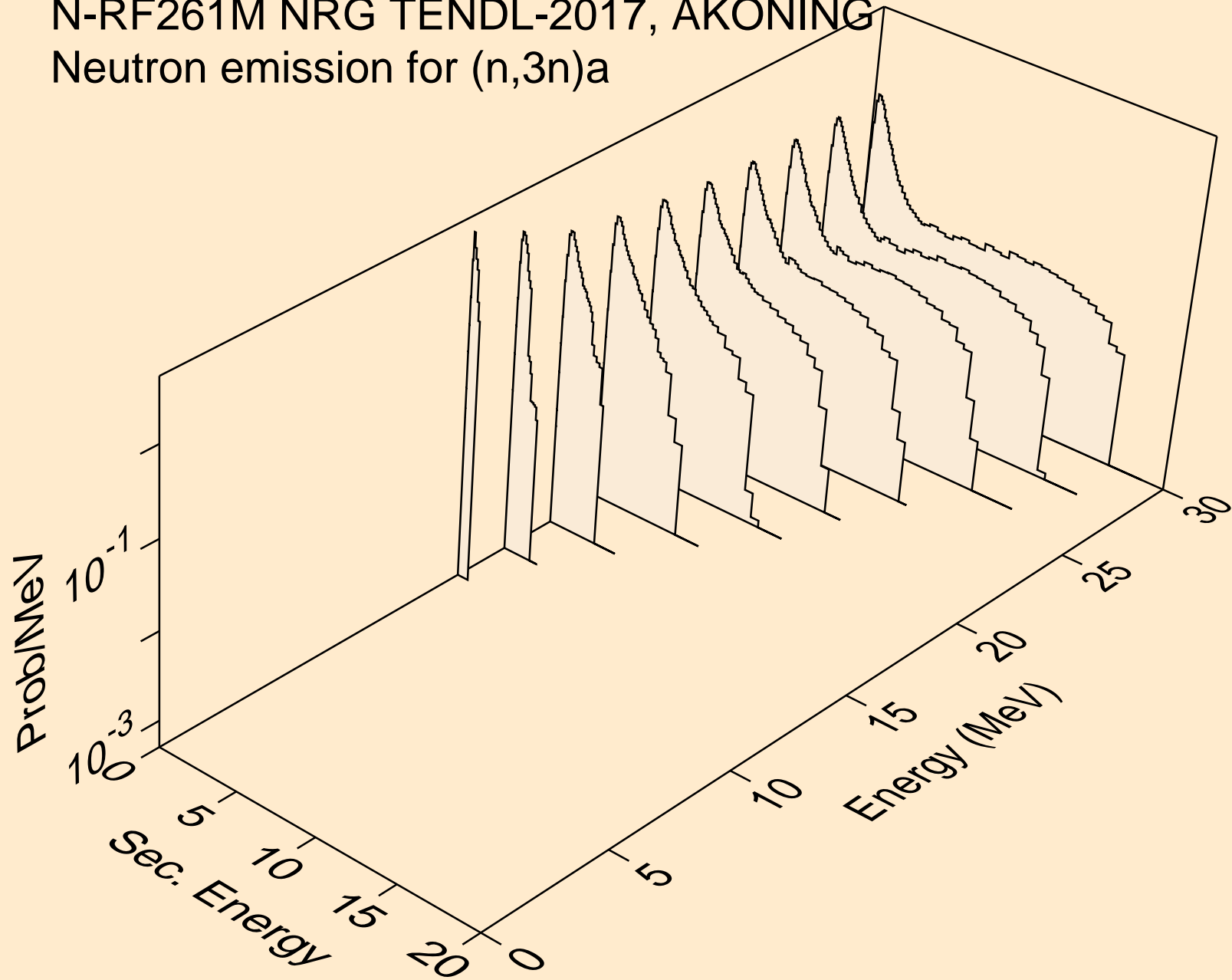Neutron emission for fission

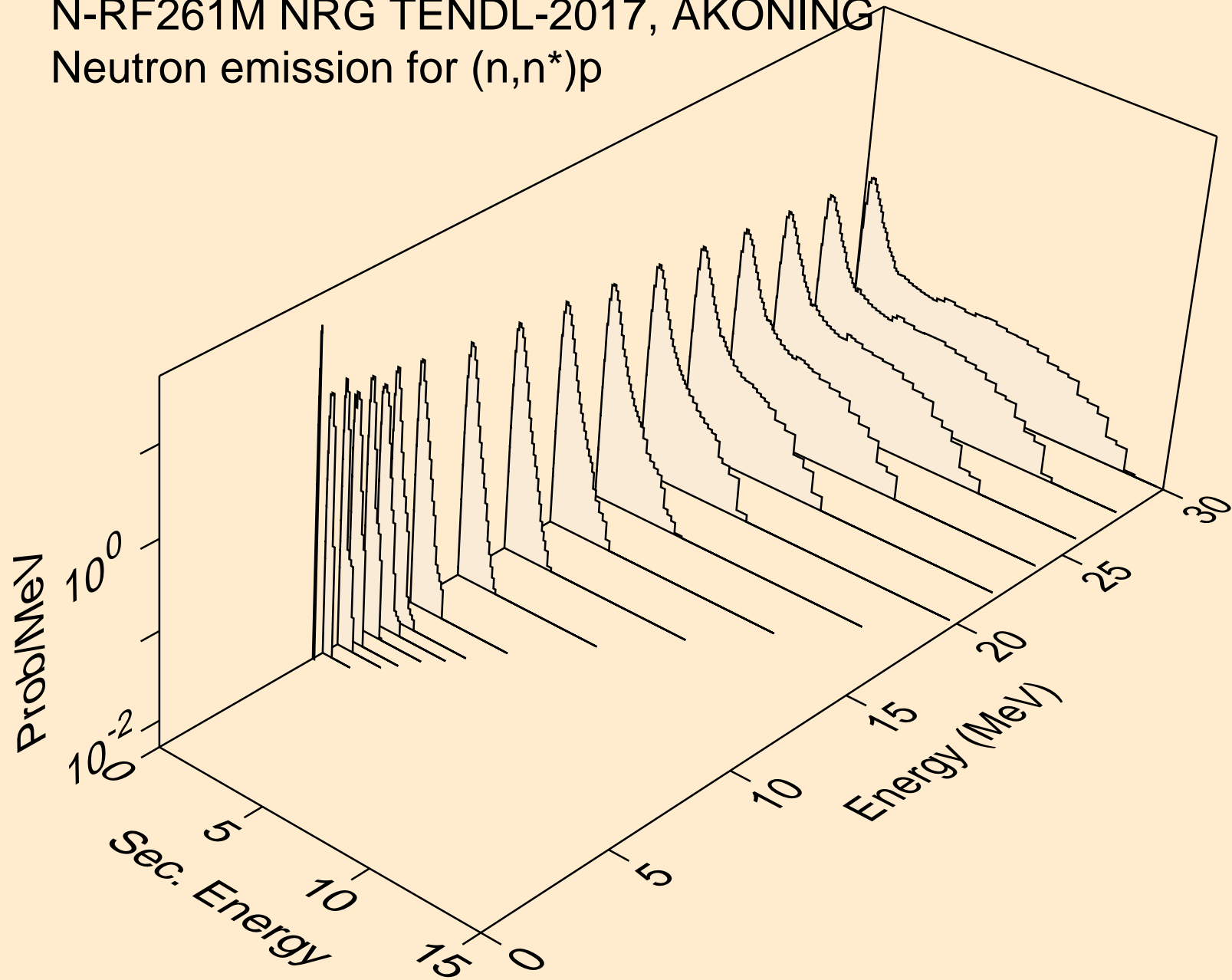N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,n*)a

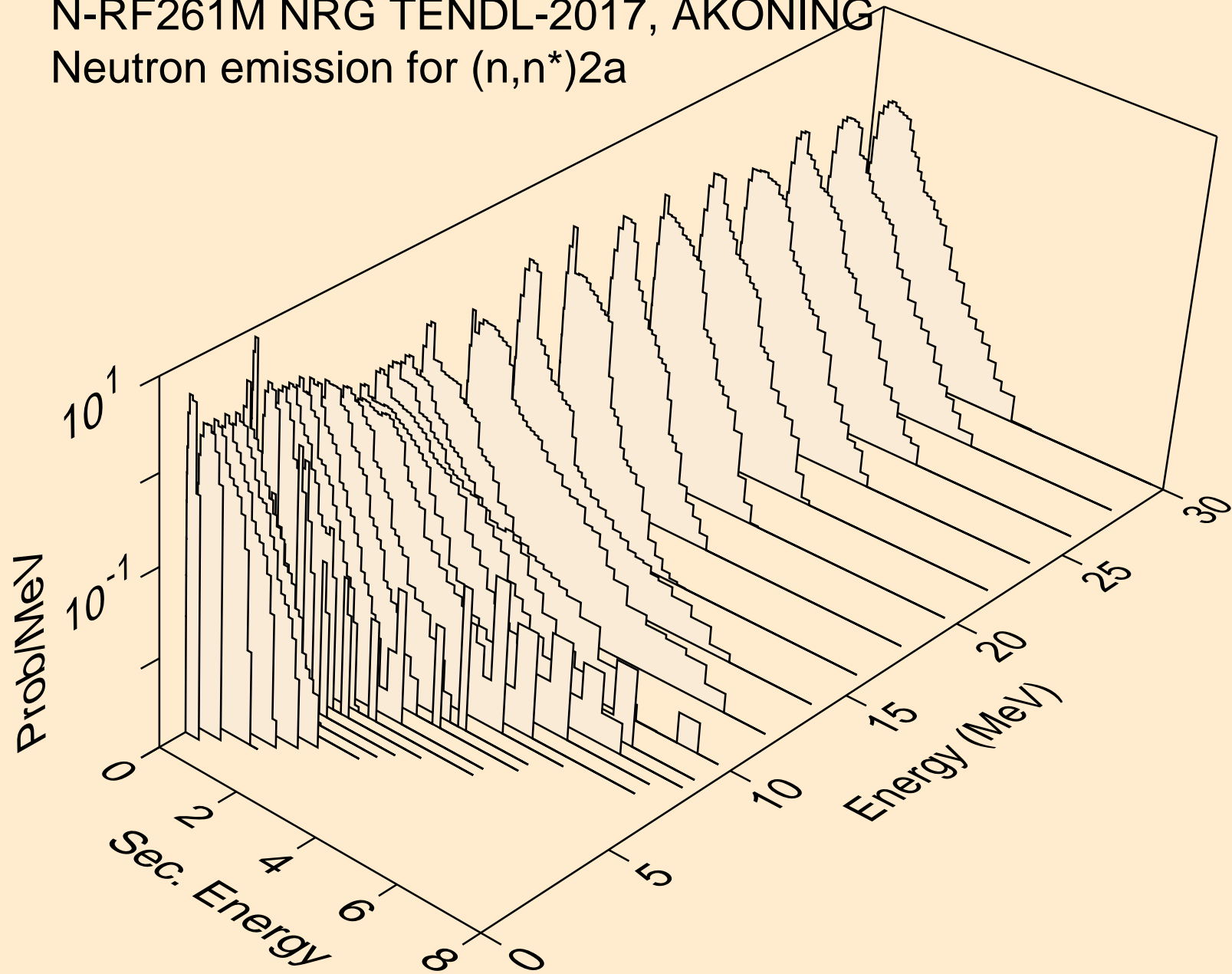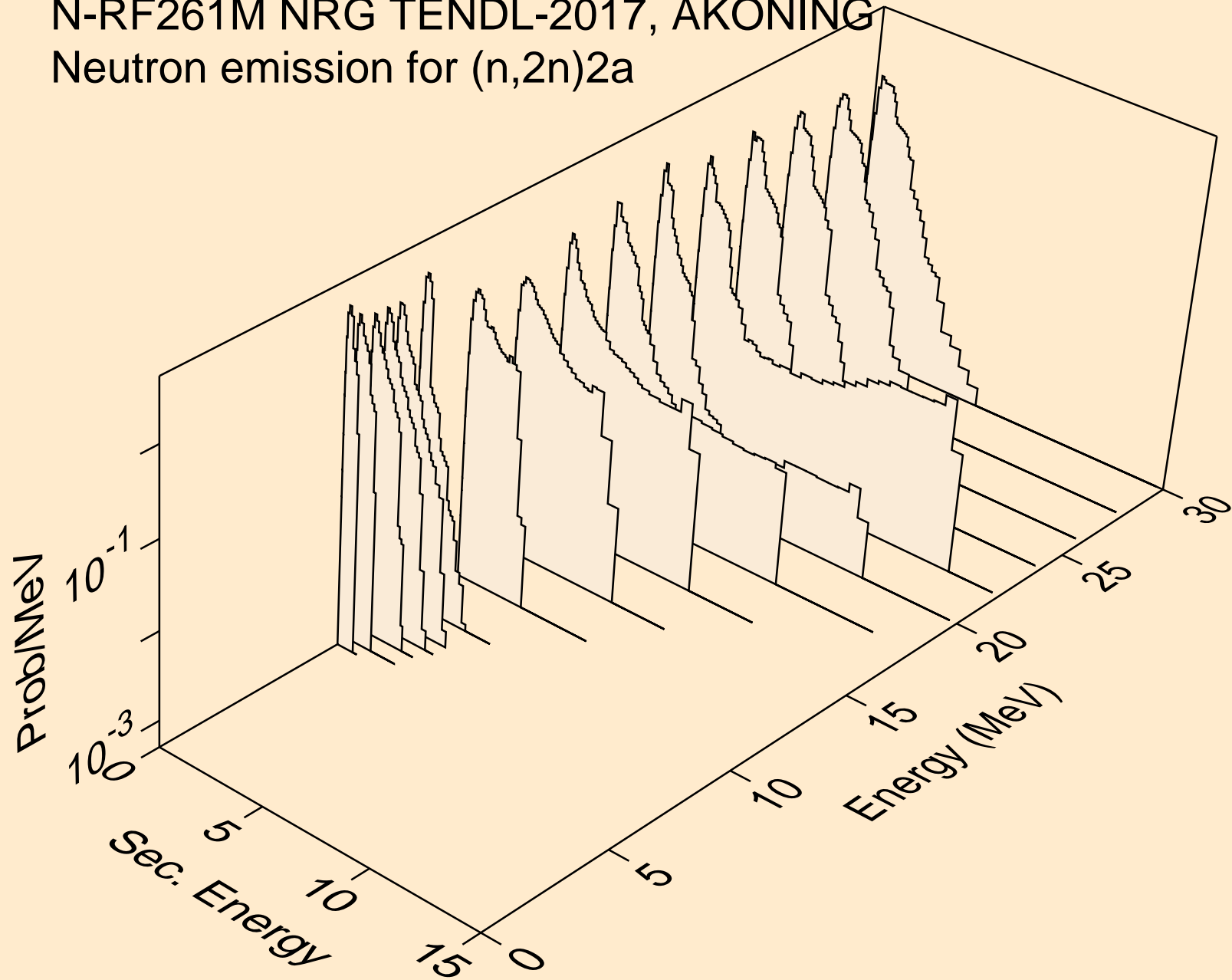N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,2n)a

N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,3n)a

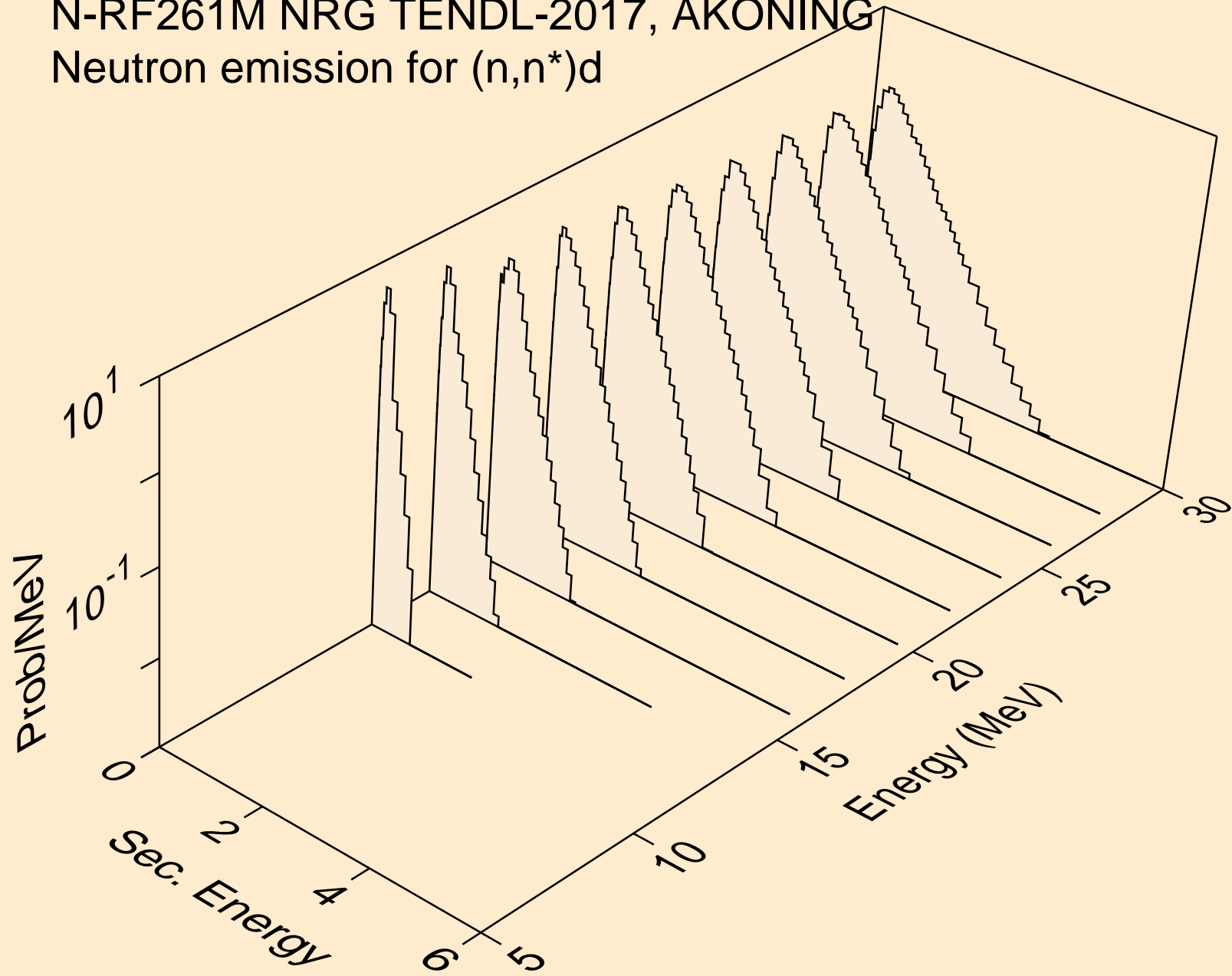N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,n*)p

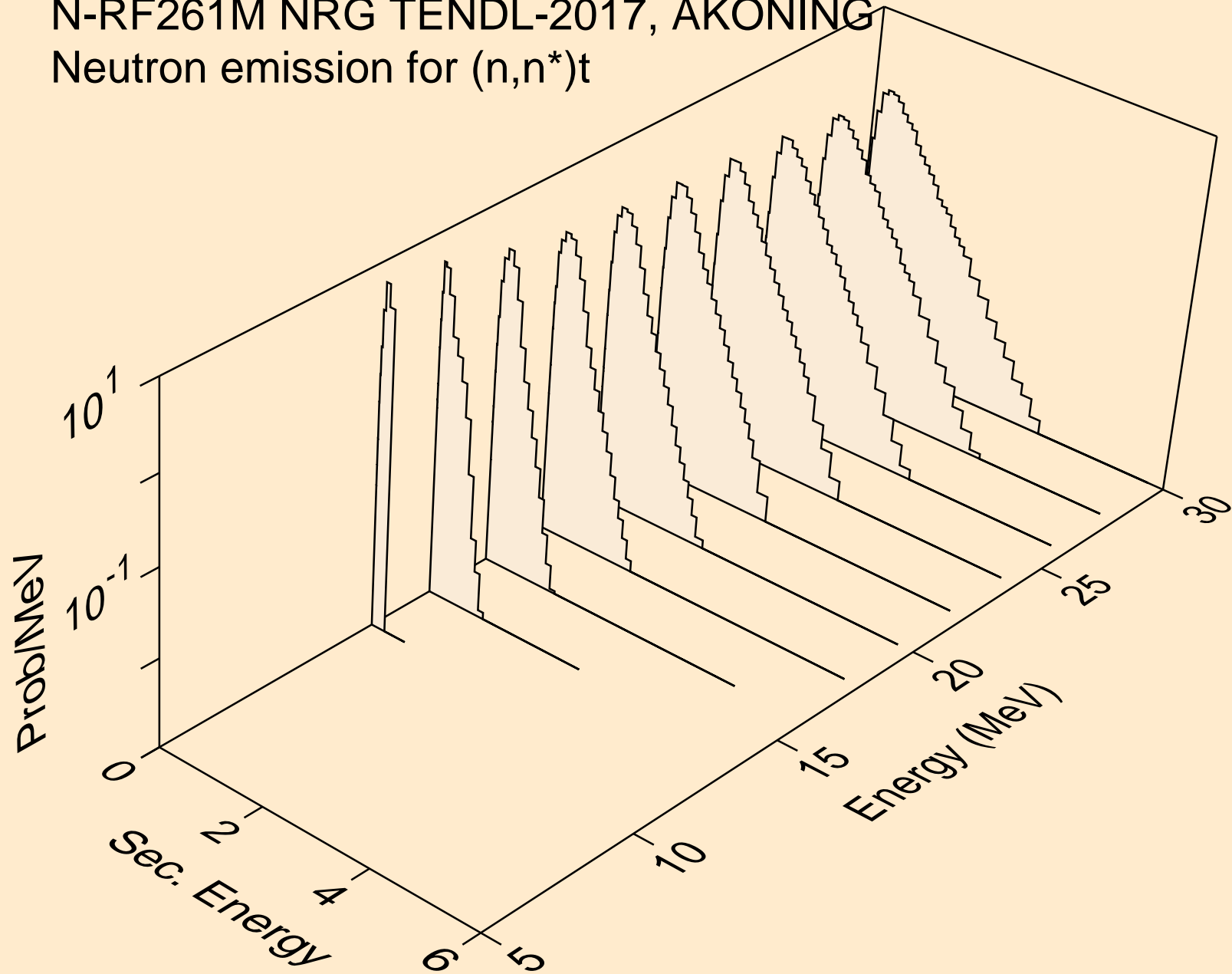N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,n*)2a

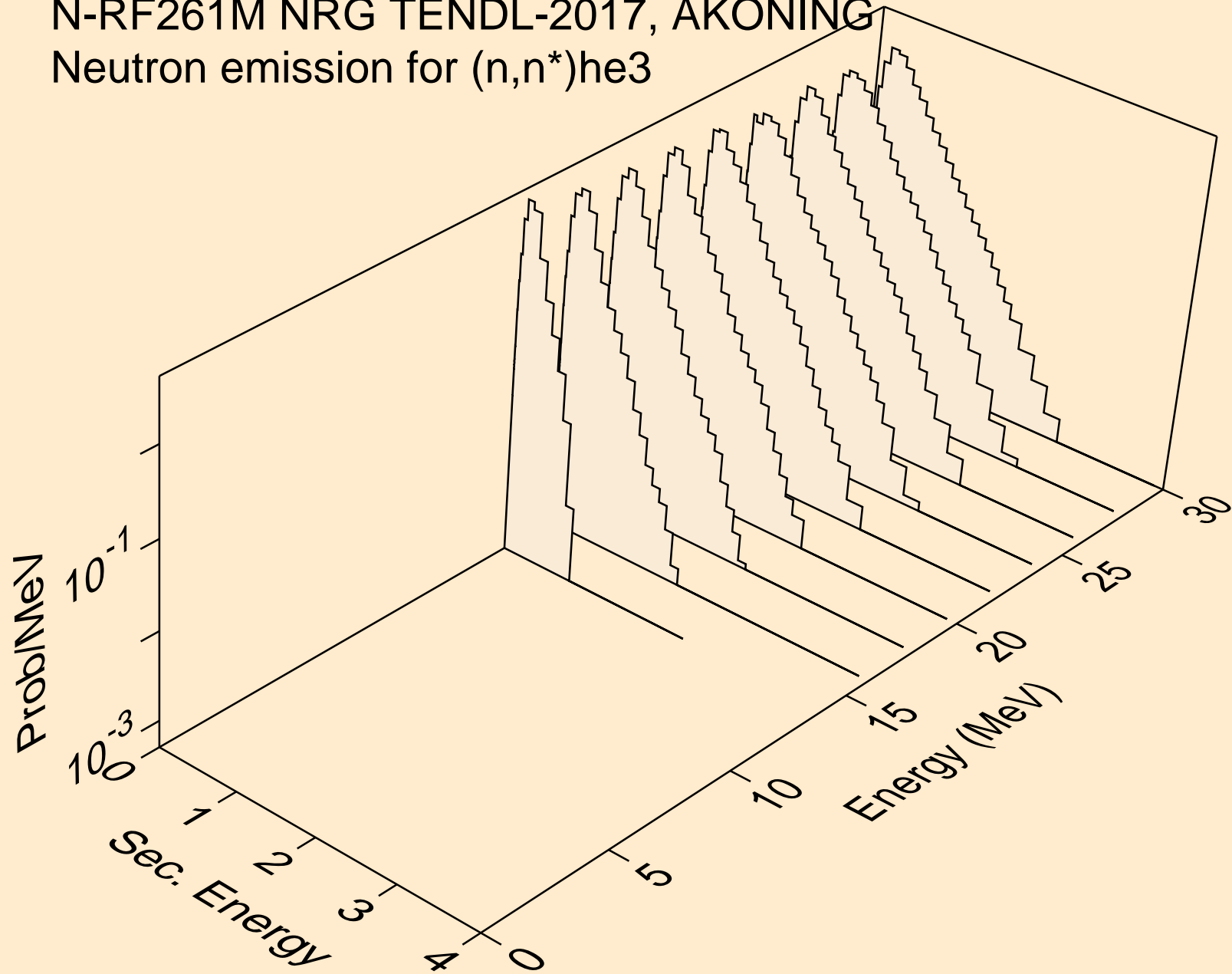N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,2n)2a

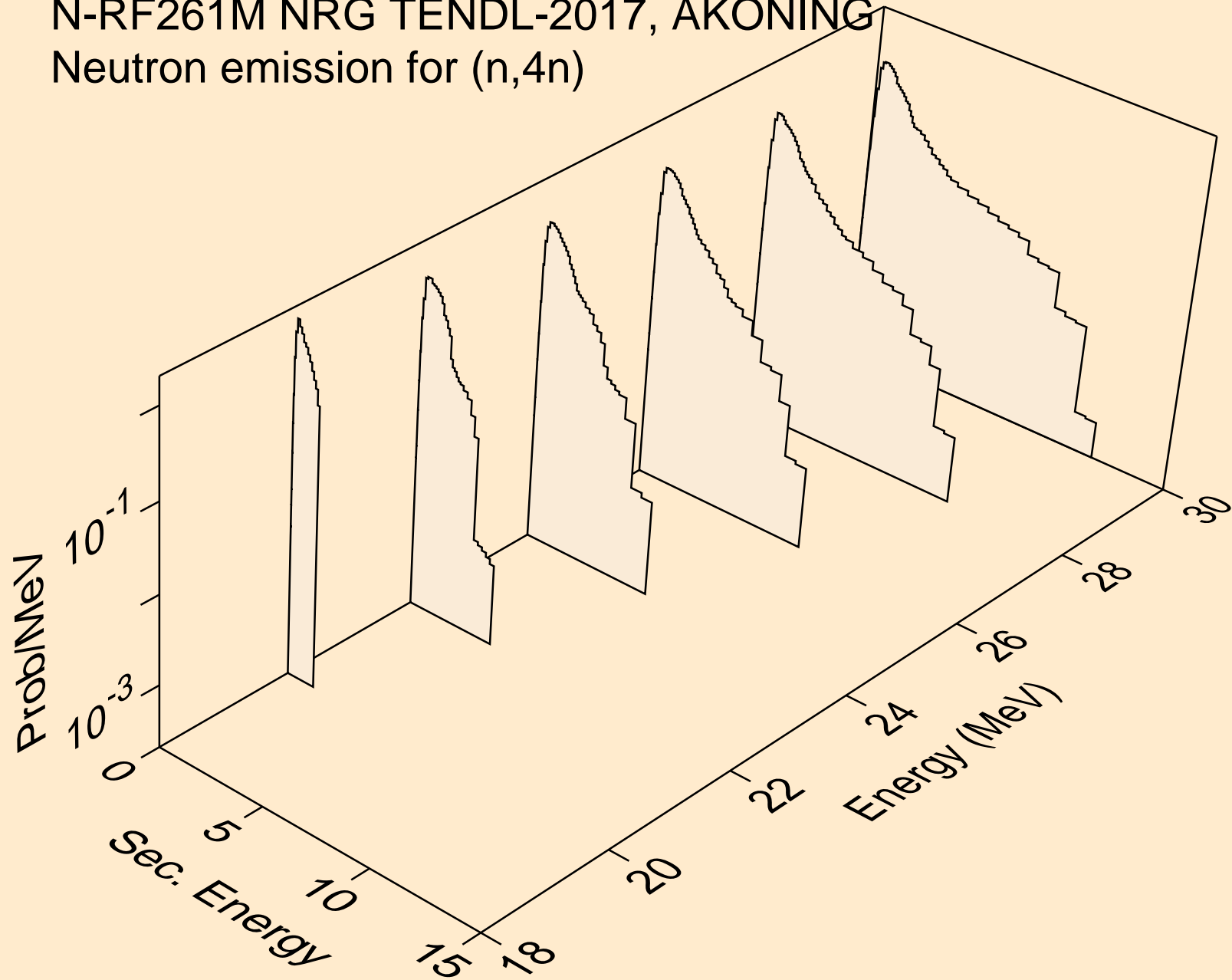N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,n*)d

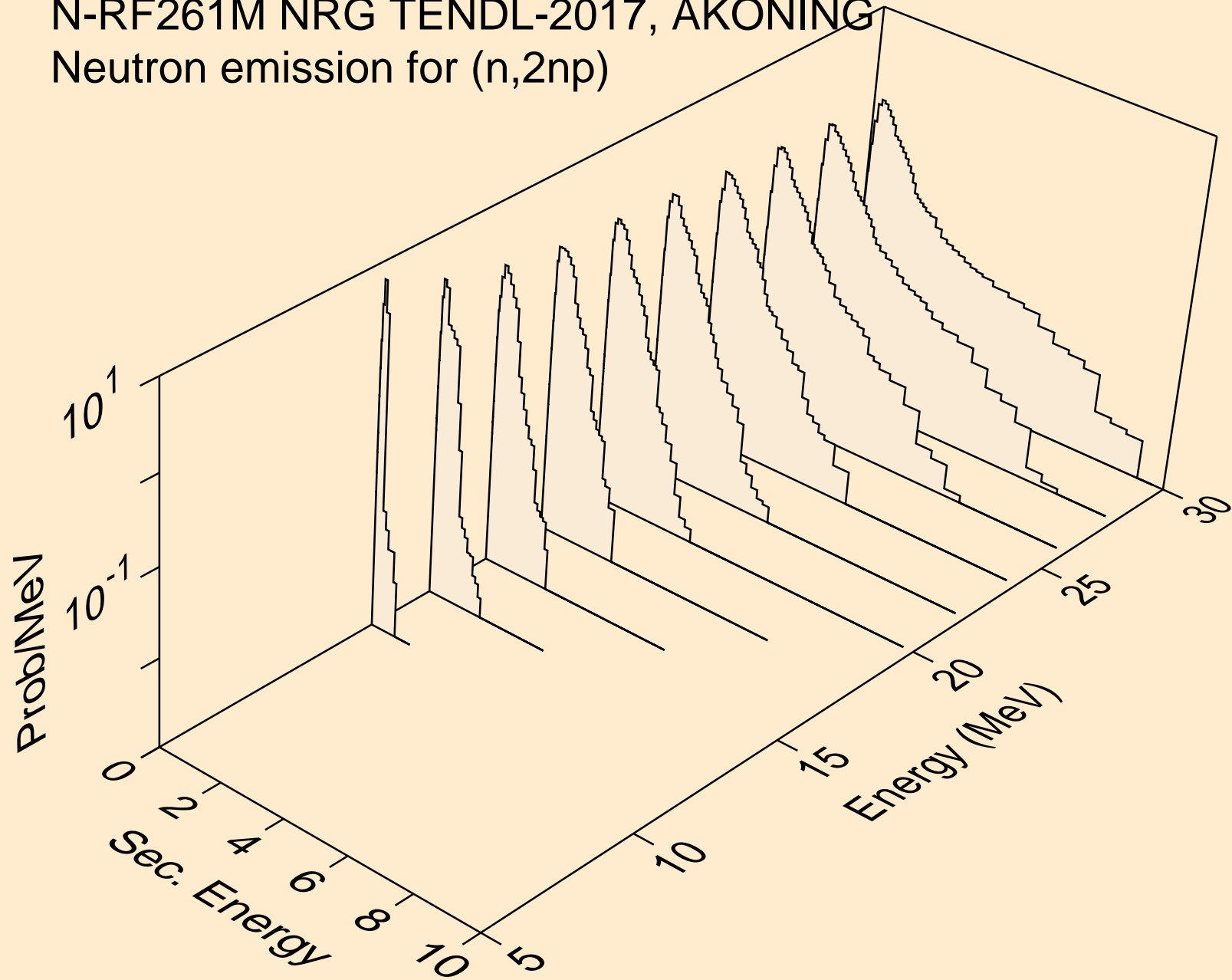N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,n*)t

N-RF261M NRG TENDL-2017, AKONING
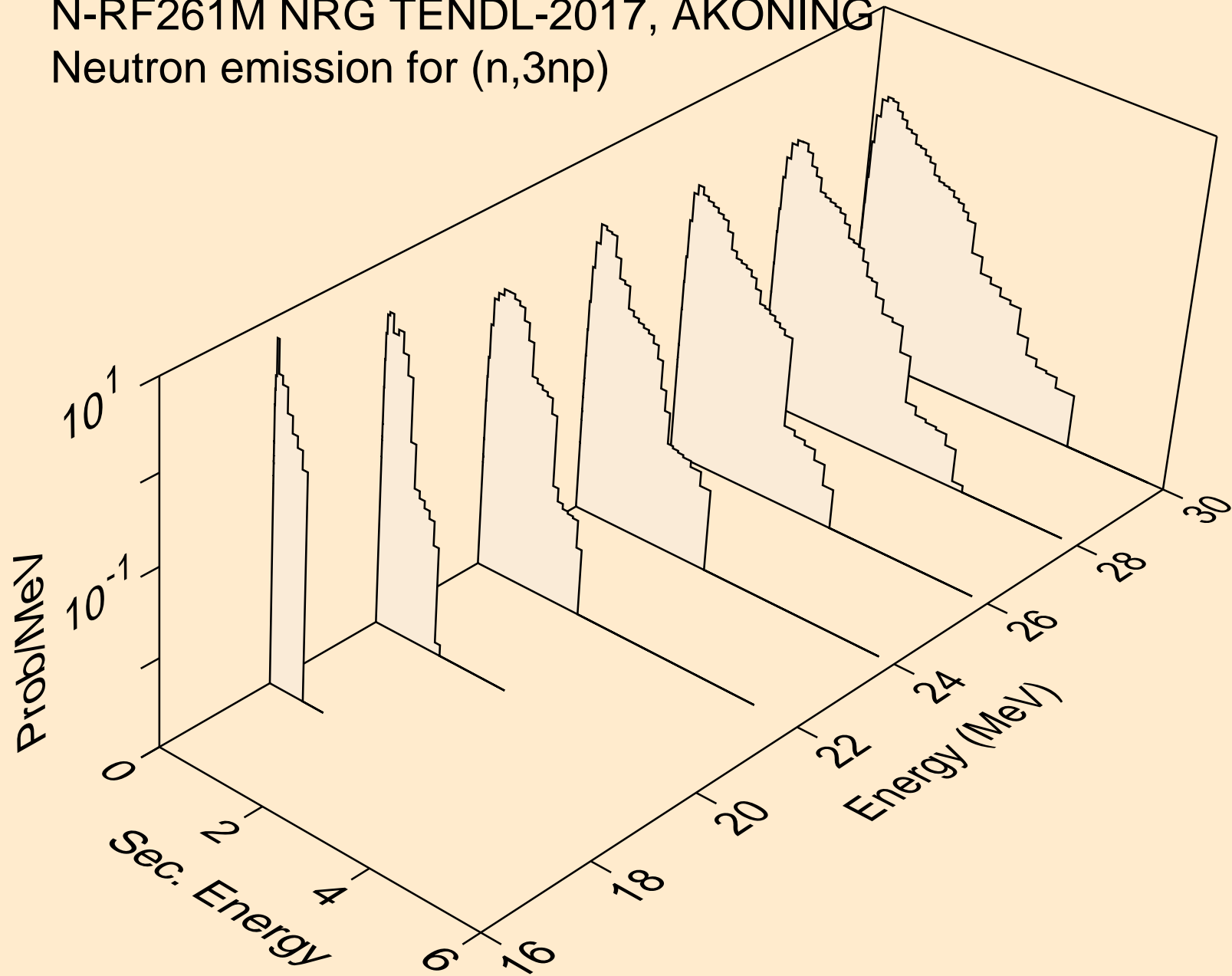Neutron emission for (n,n*)he3

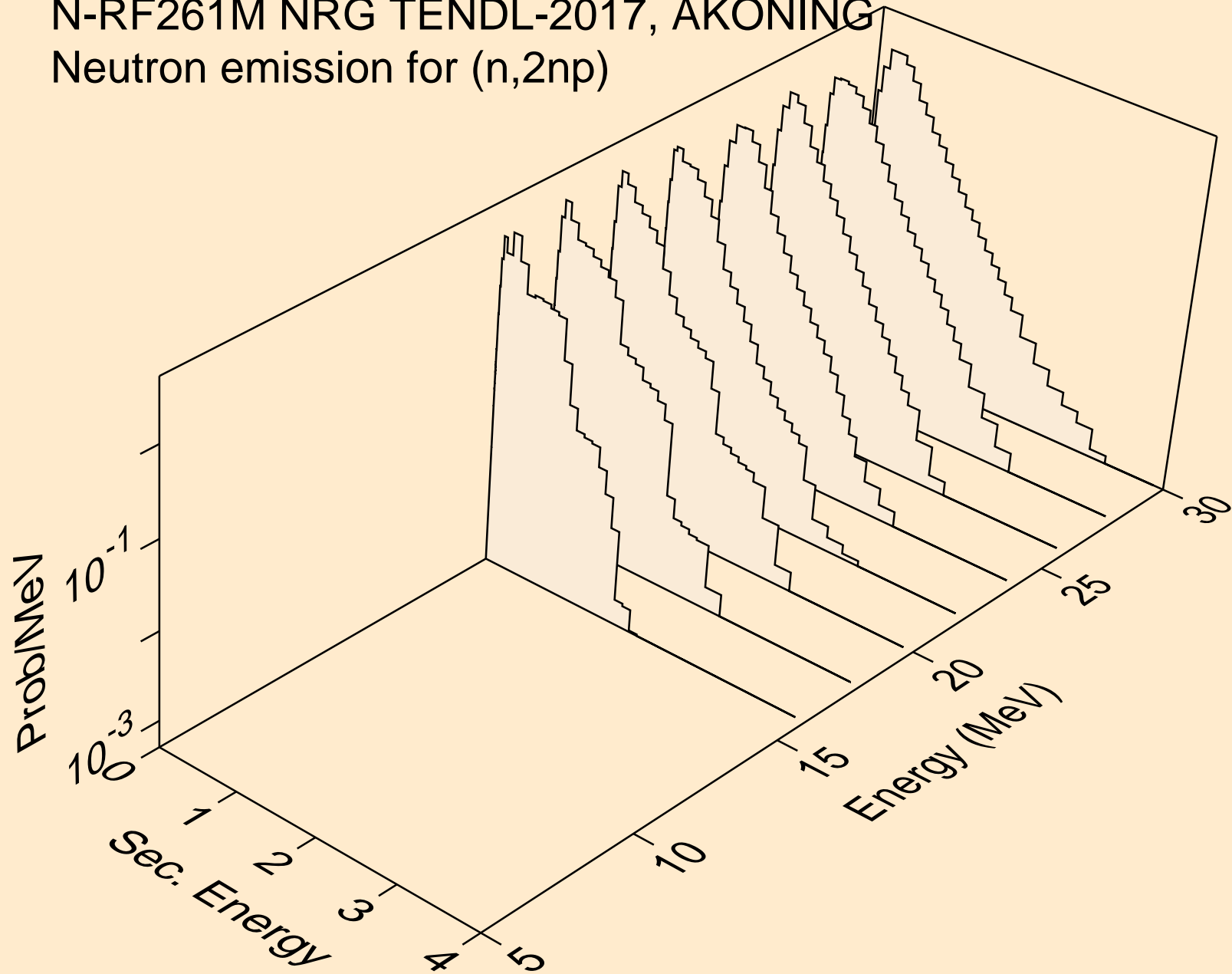N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,4n)

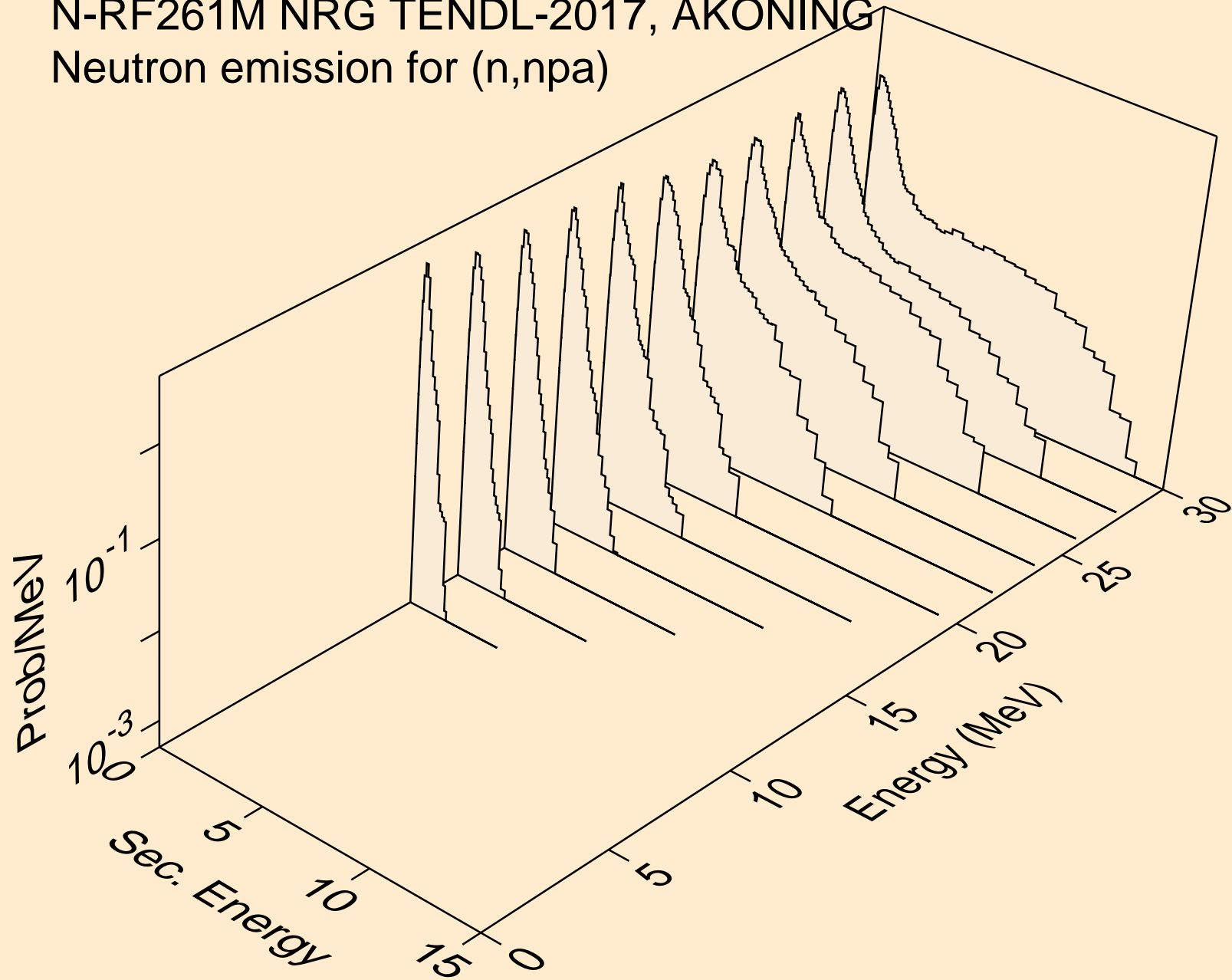N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,2np)

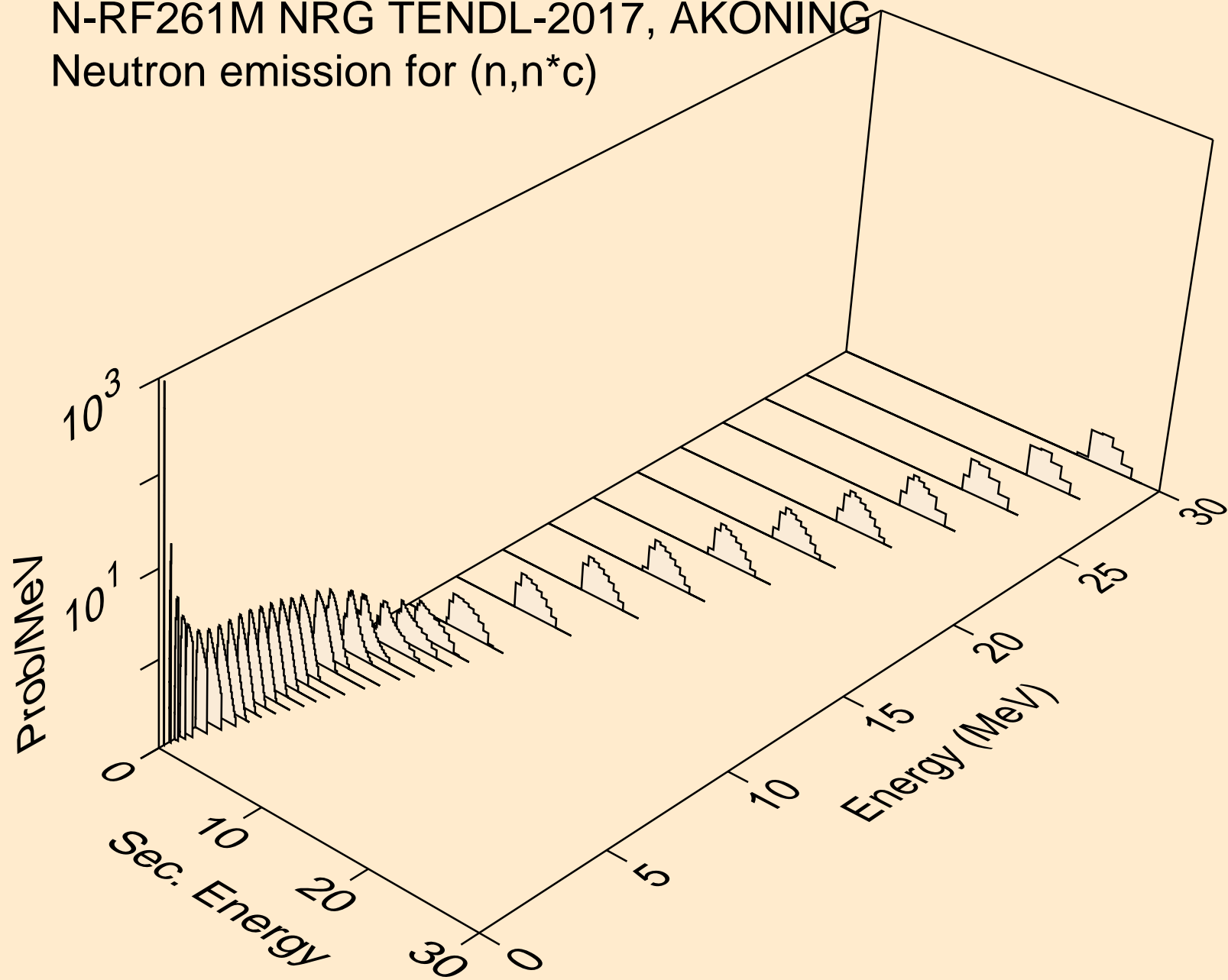N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,3np)

N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,2np)

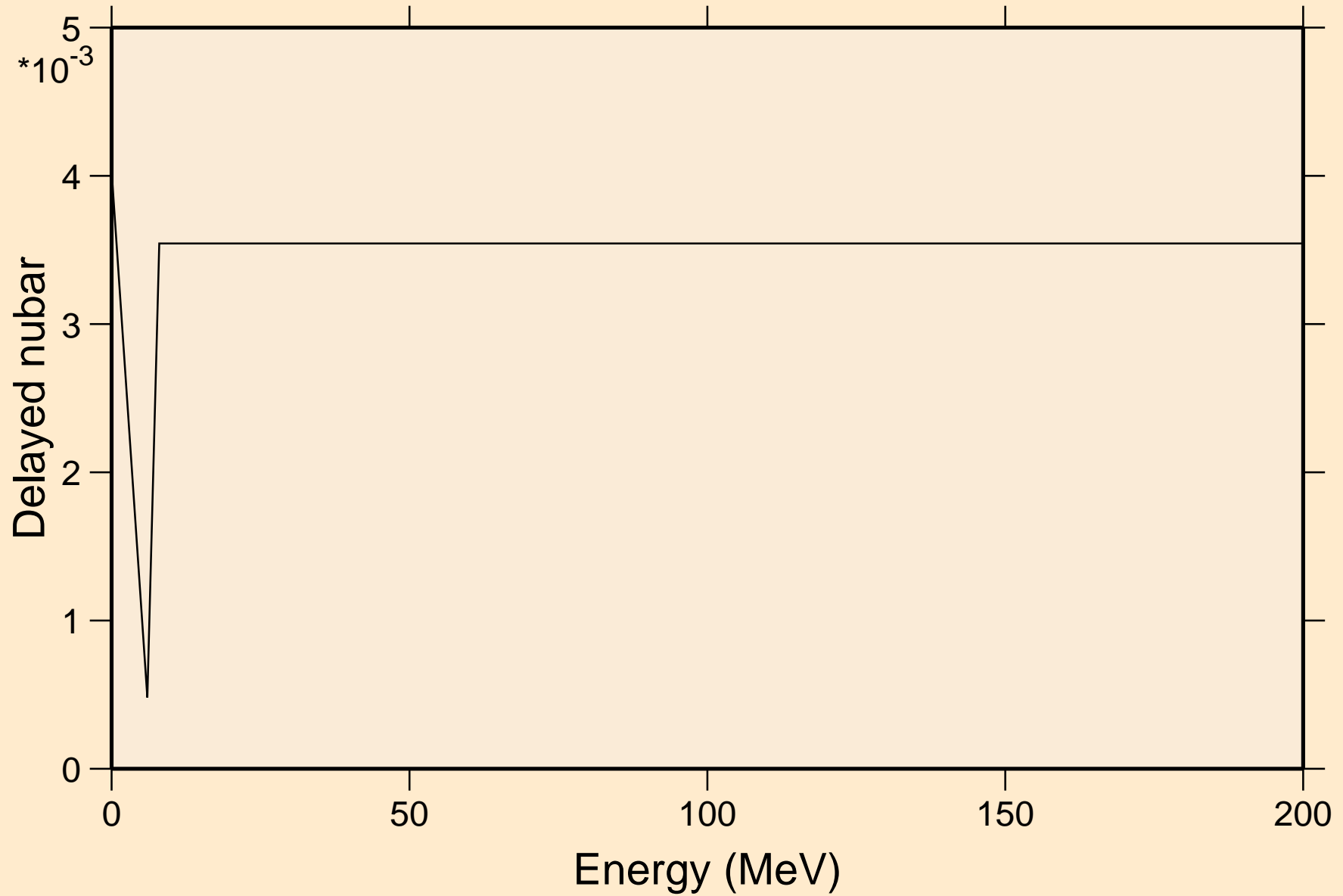N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,npa)

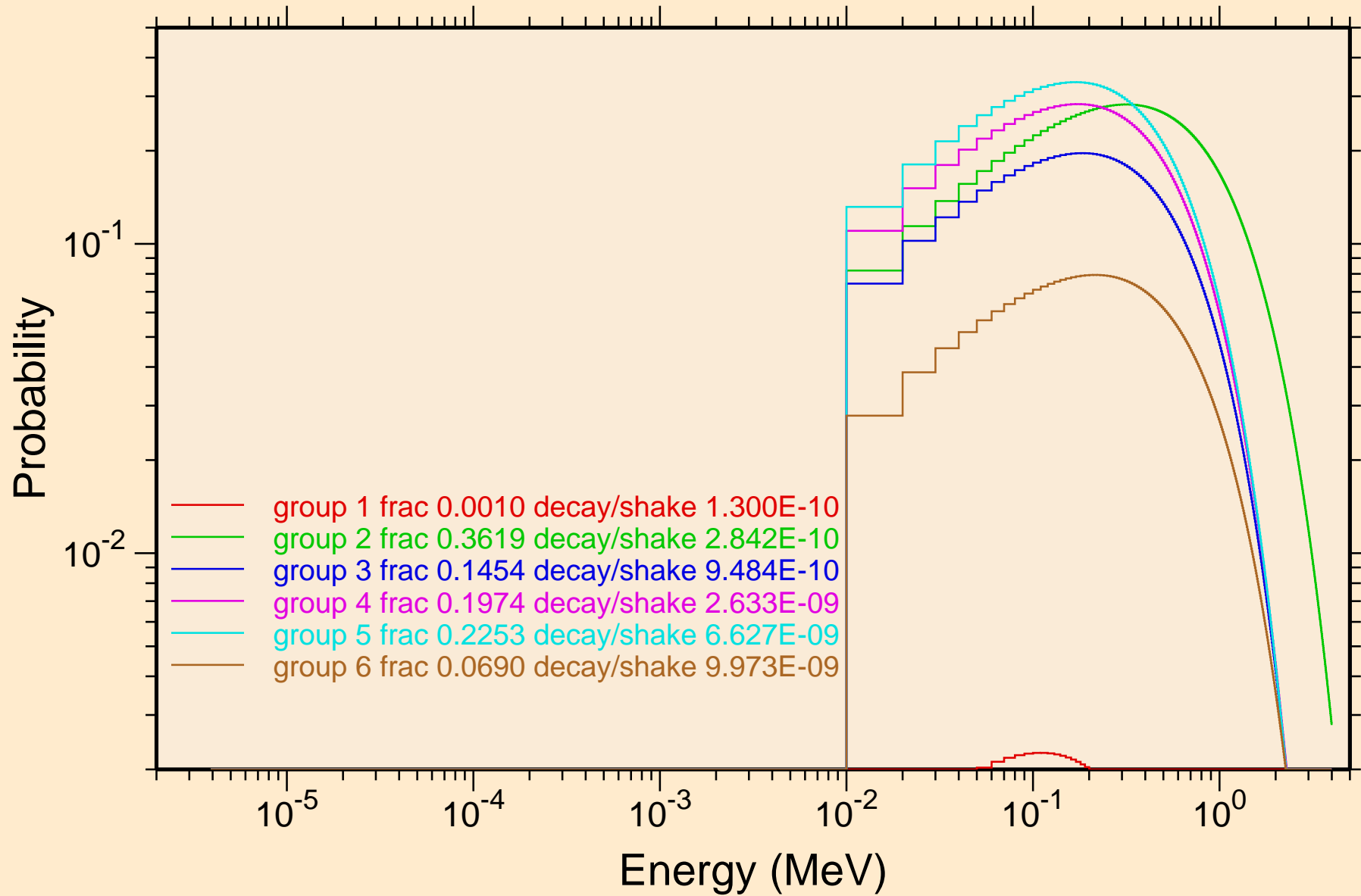N-RF261M NRG TENDL-2017, AKONING
Neutron emission for (n,n*c)

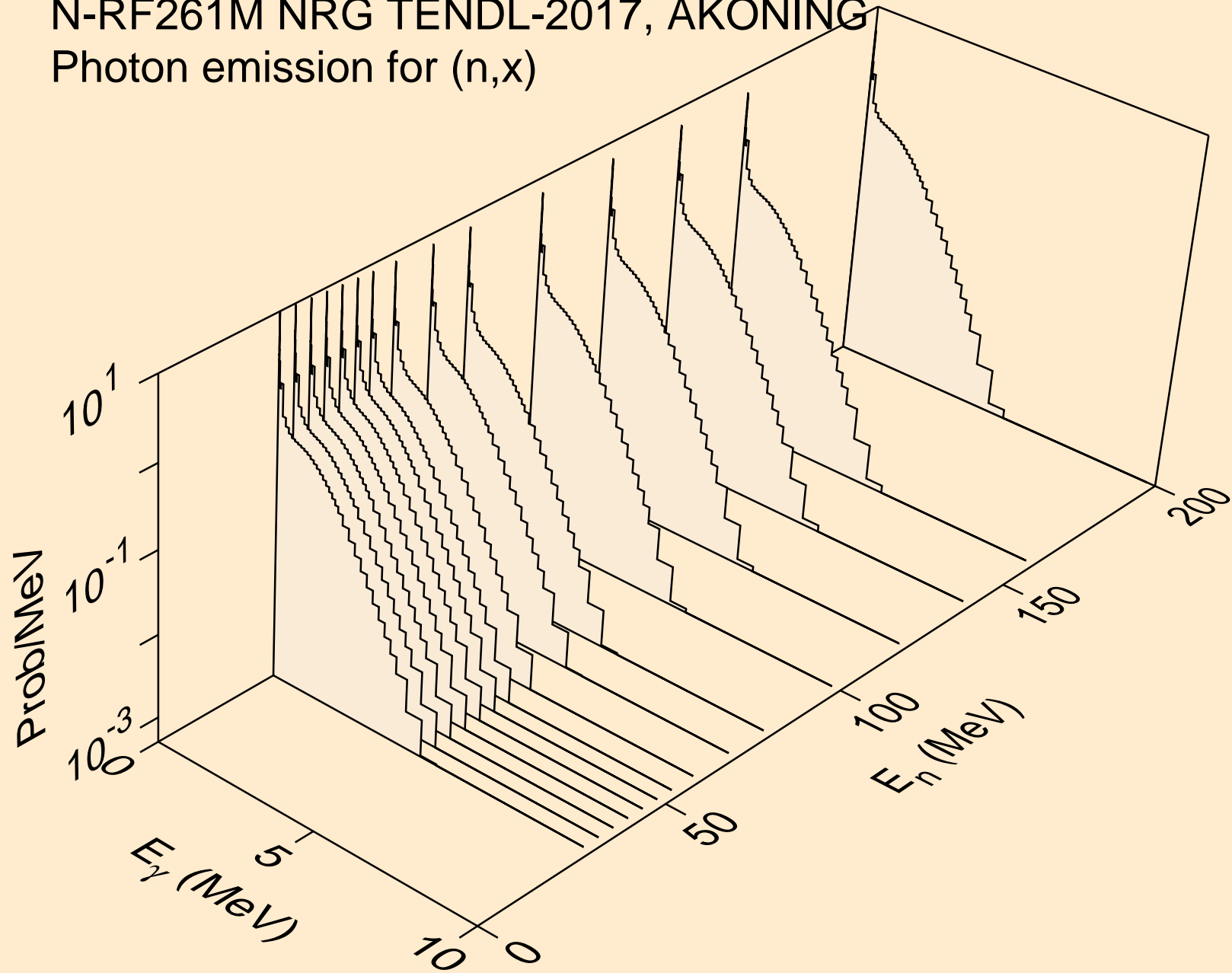N-RF261M NRG TENDL-2017, AKONING
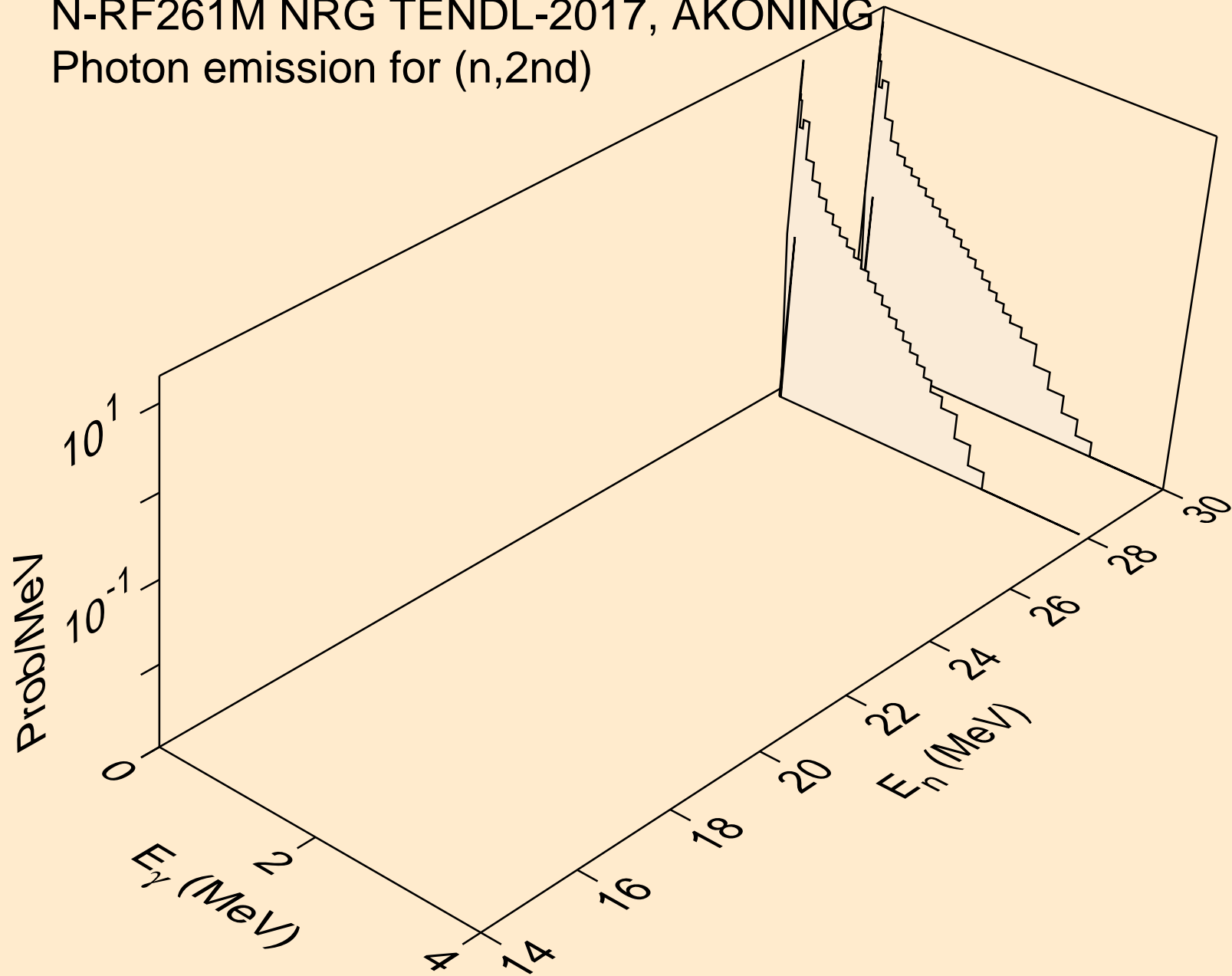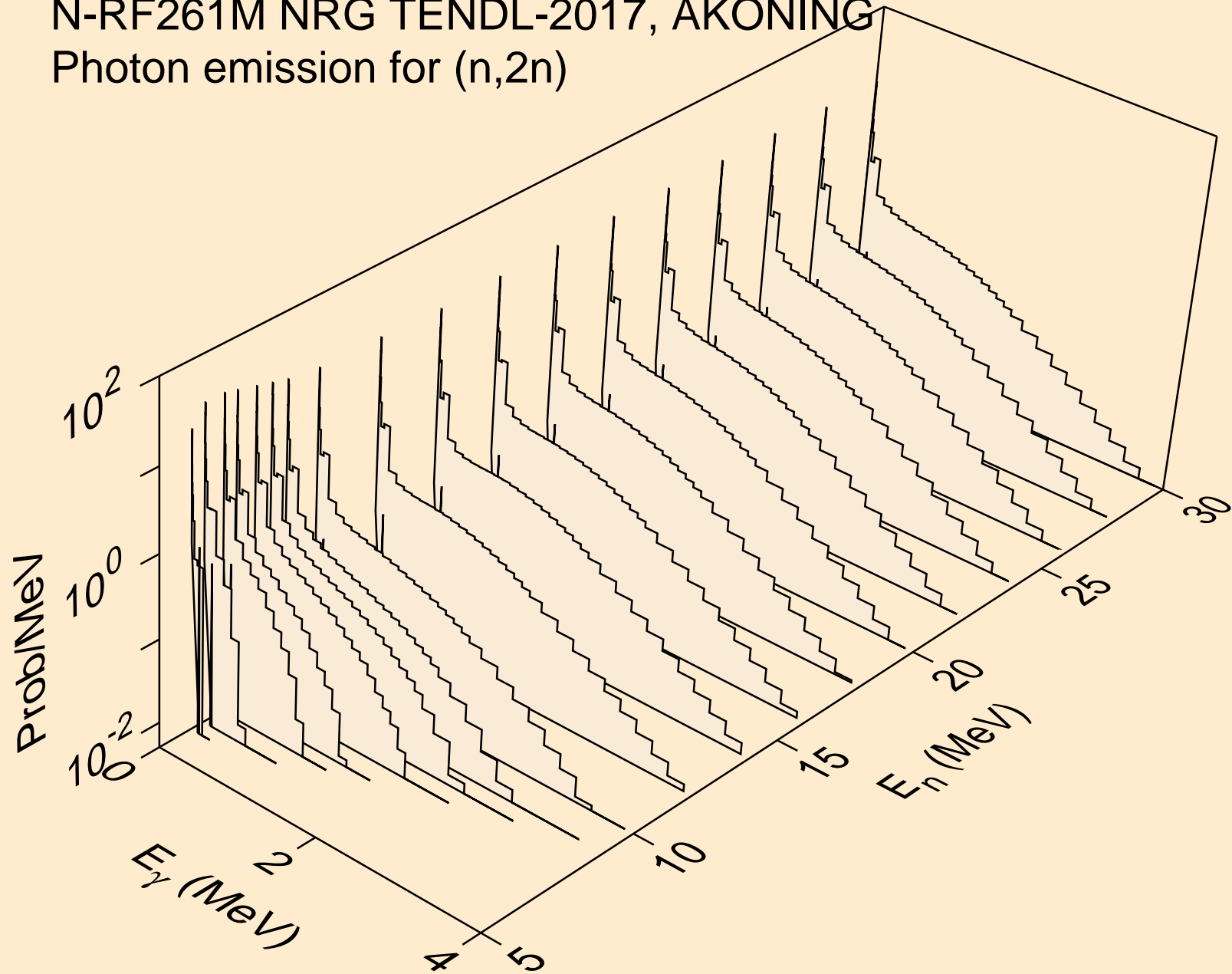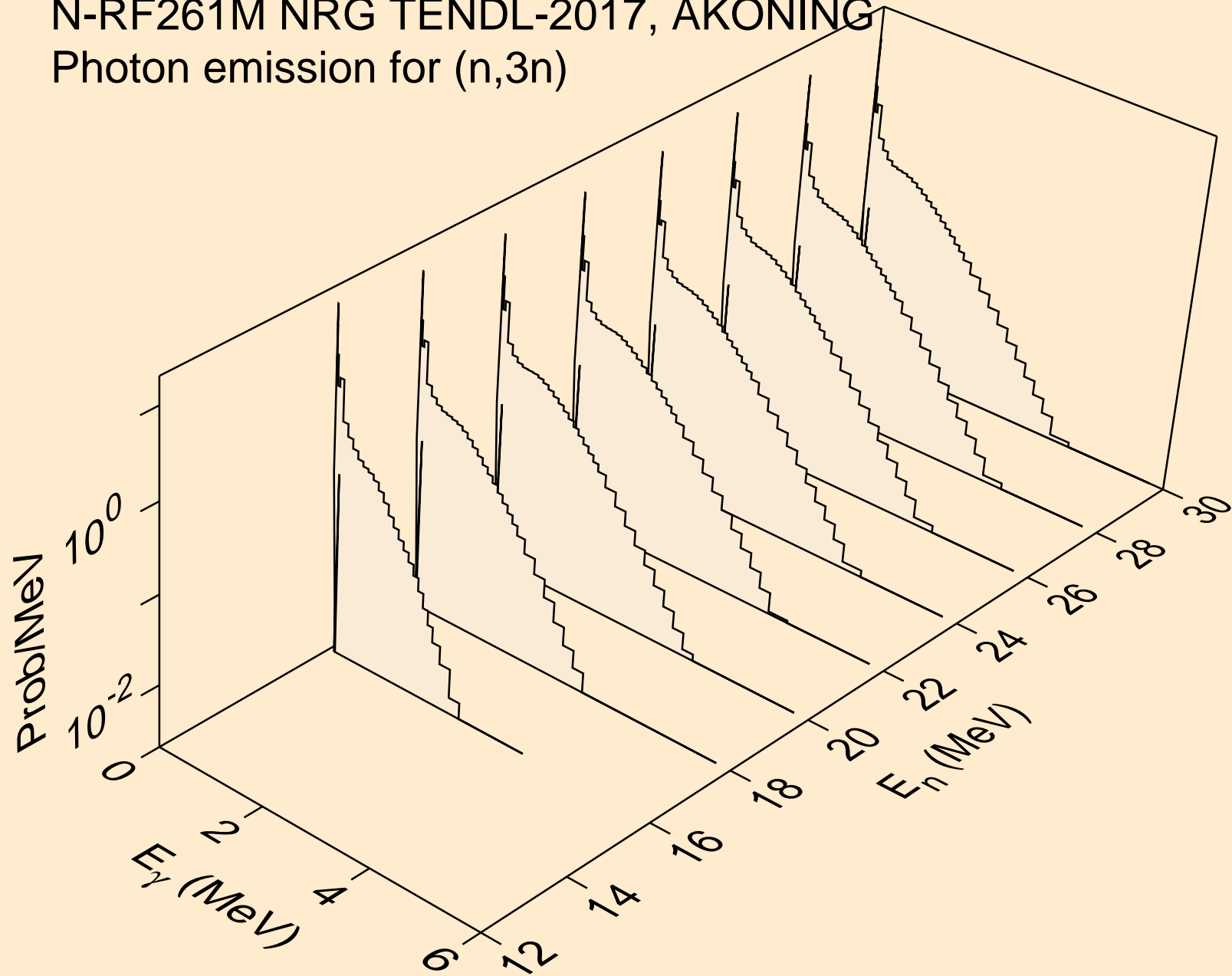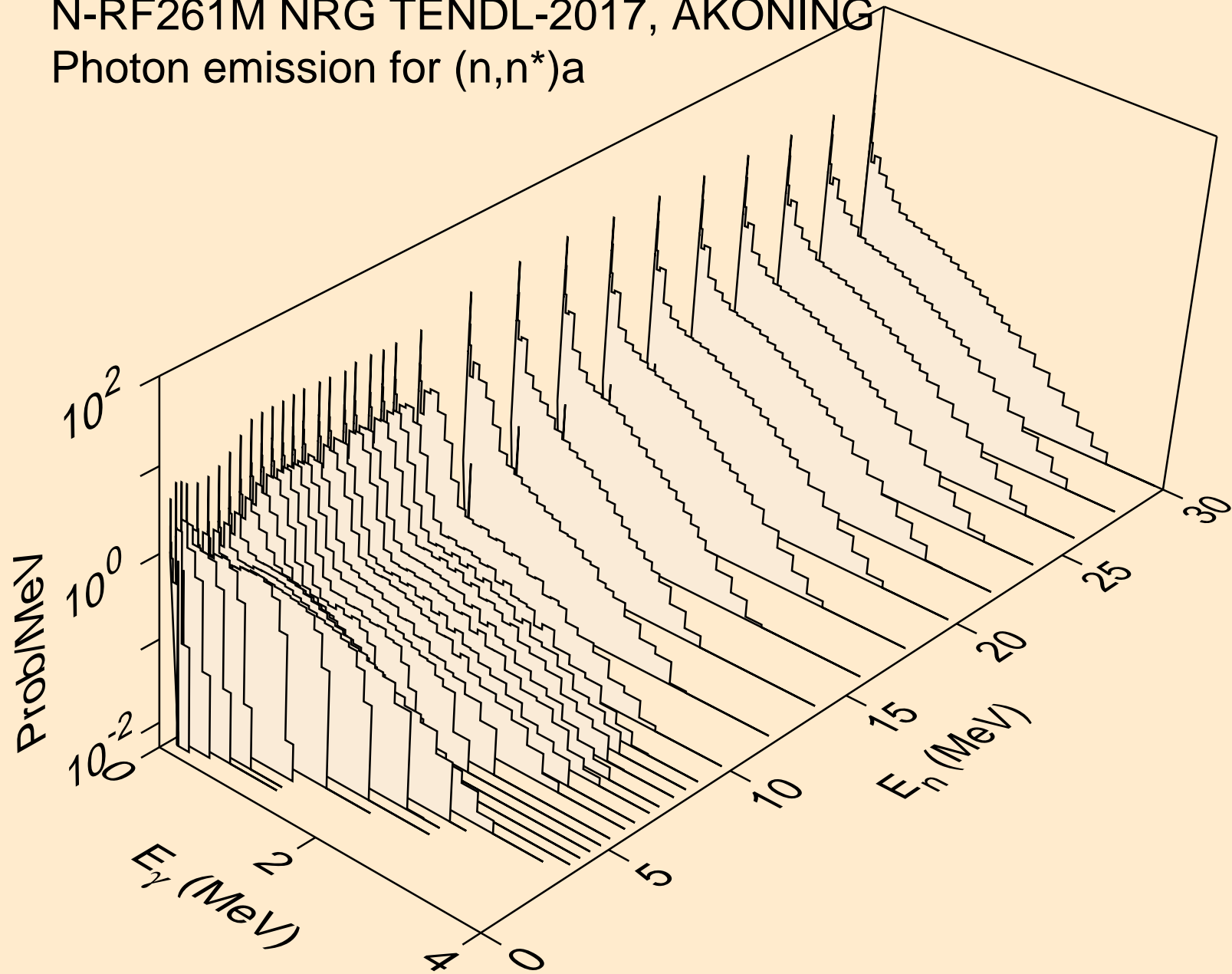Delayed nubar

N-RF261M NRG TENDL-2017, AKONING
Delayed neutron spectra

group 1 frac 0.0010 decay/shake 1.300E-10
group 2 frac 0.3619 decay/shake 2.842E-10
group 3 frac 0.1454 decay/shake 9.484E-10
group 4 frac 0.1974 decay/shake 2.633E-09
group 5 frac 0.2253 decay/shake 6.627E-09
group 6 frac 0.0690 decay/shake 9.973E-09

N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,x)

N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,2nd)

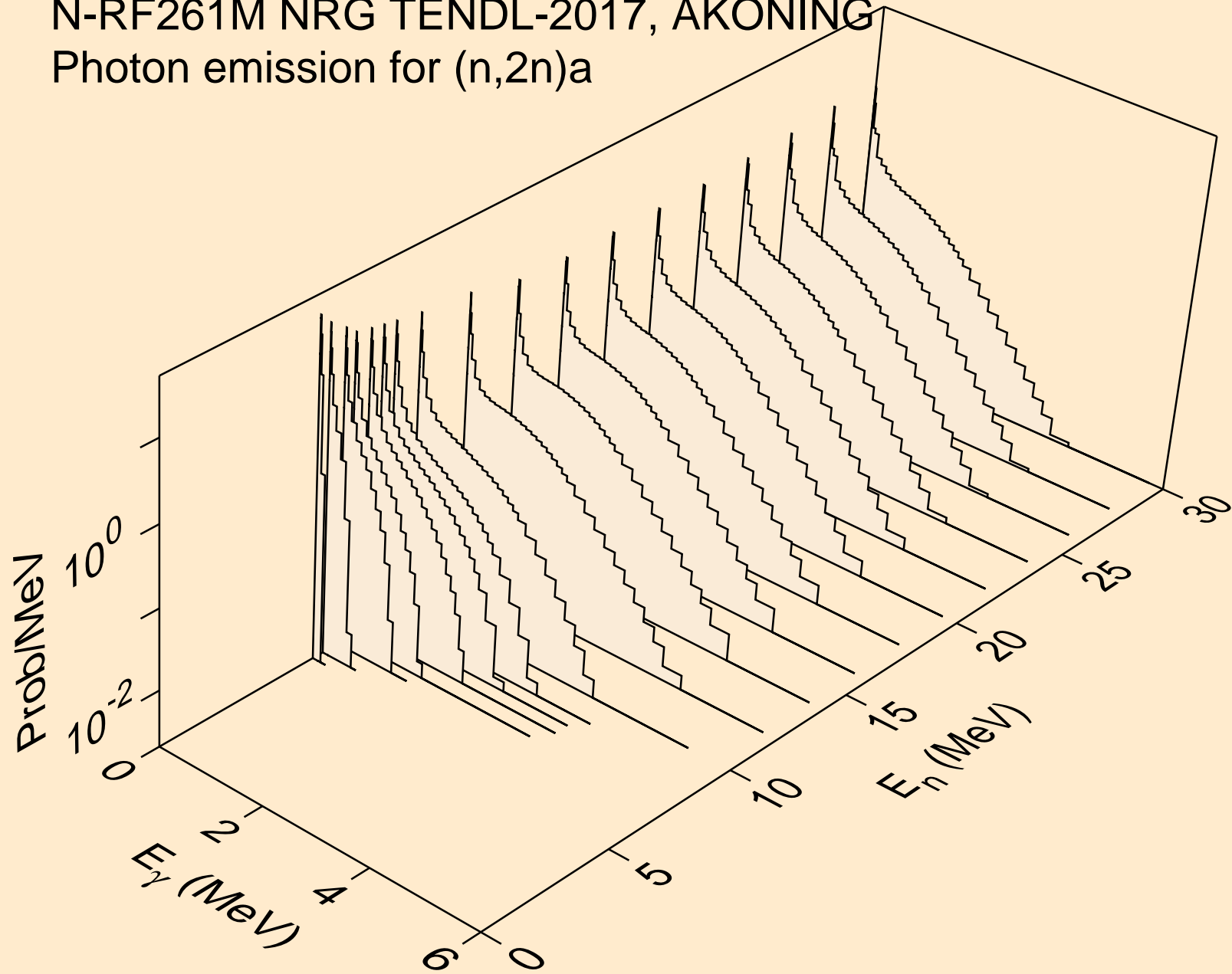N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,2n)

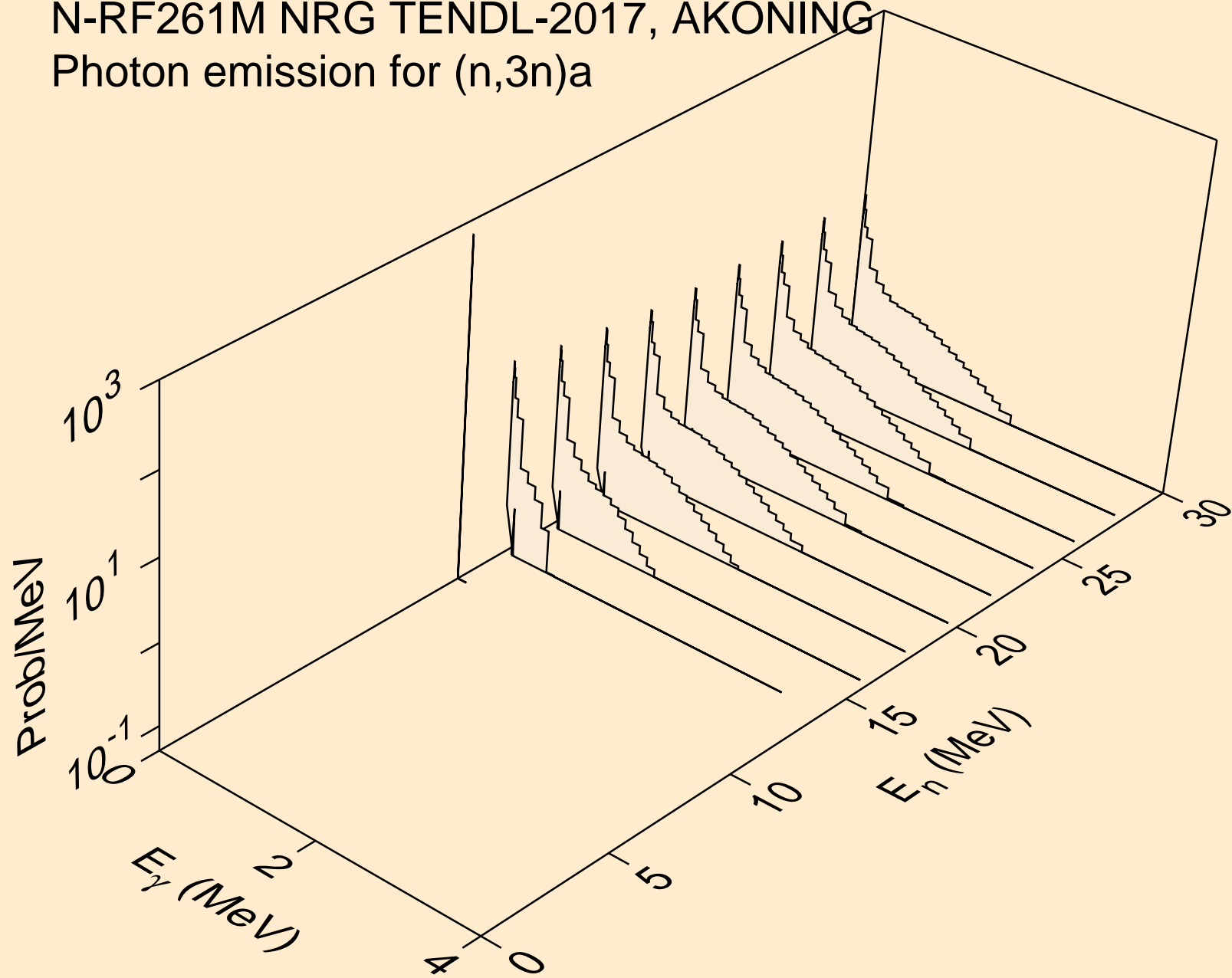N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,3n)

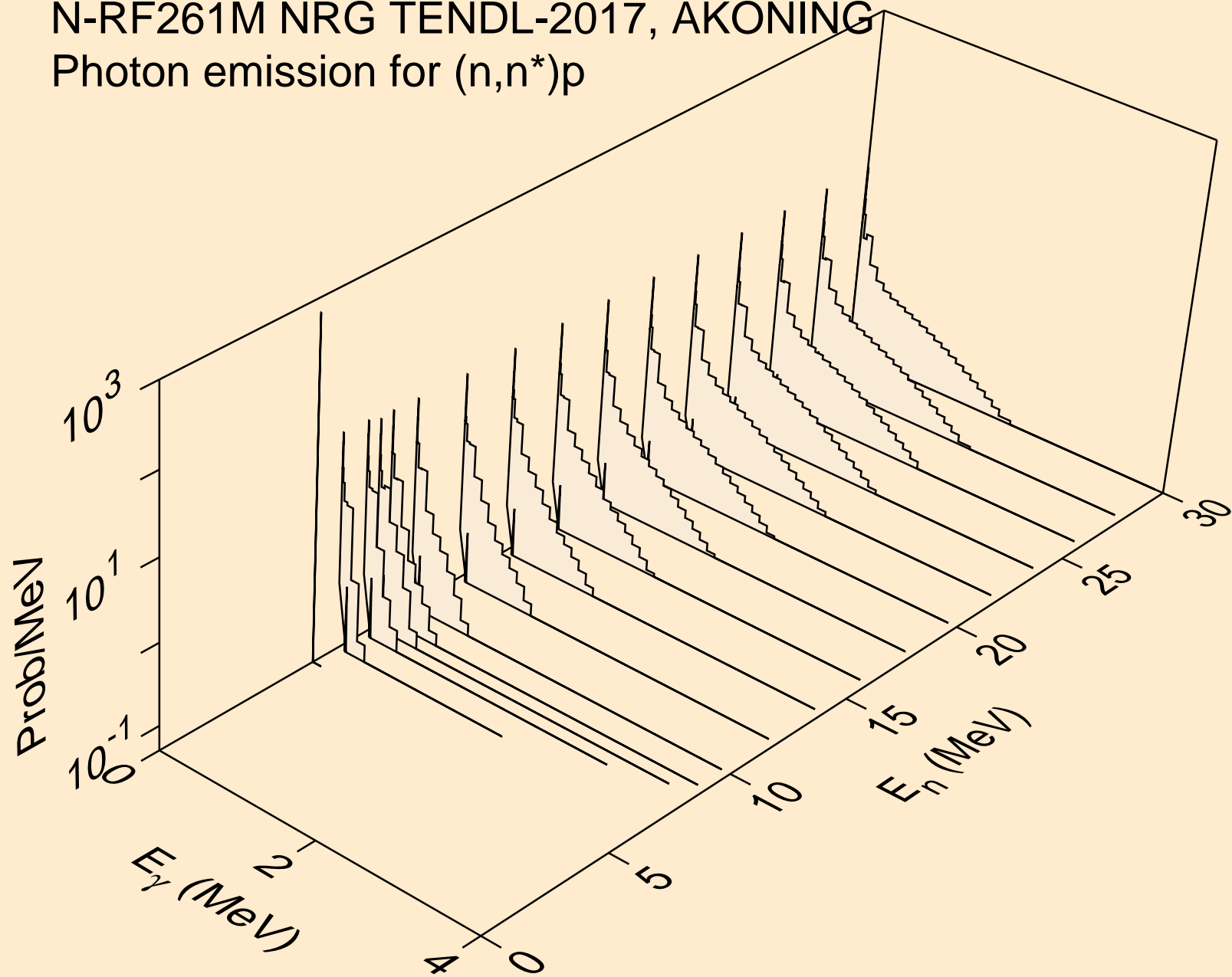N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*)a

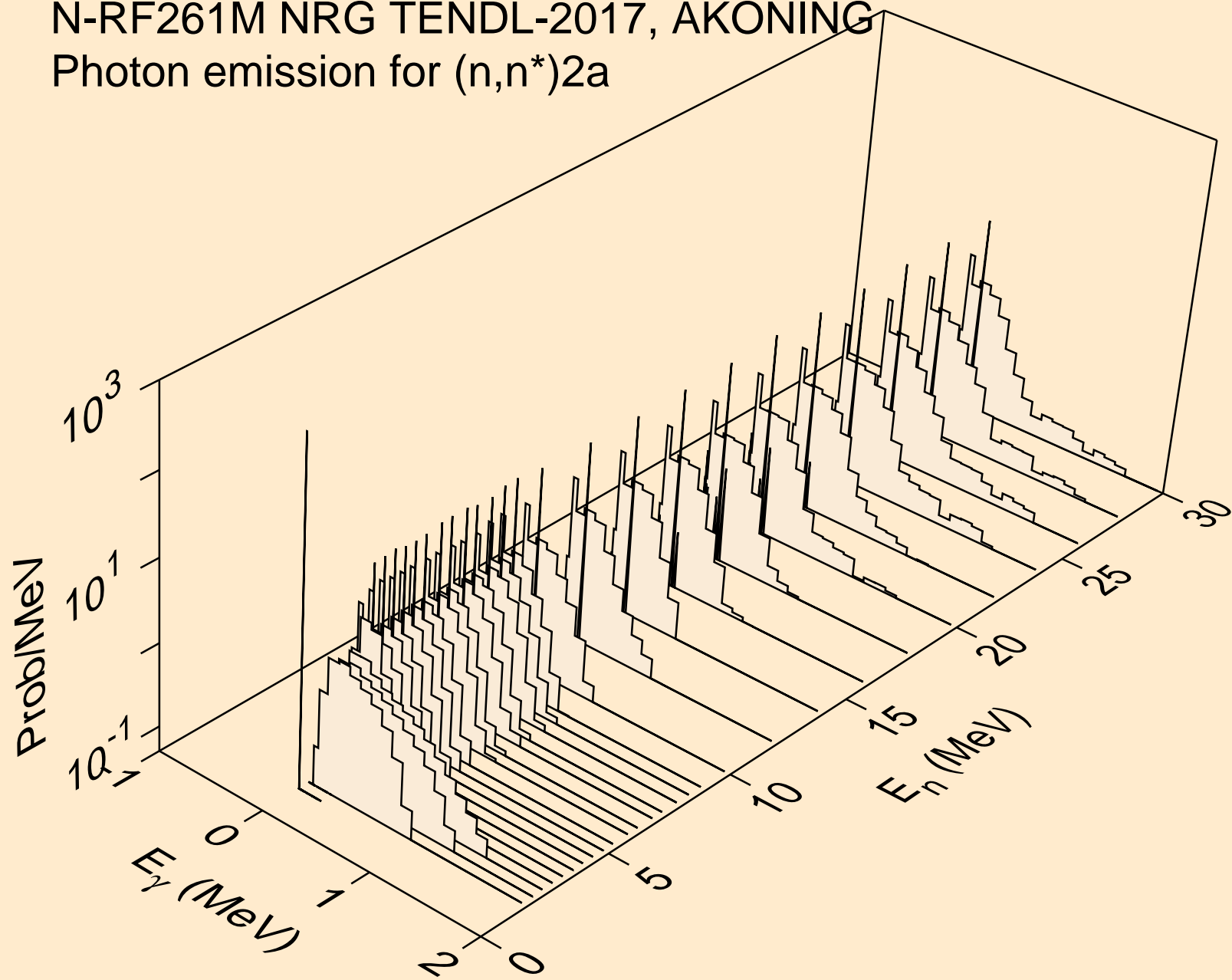N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,2n)a

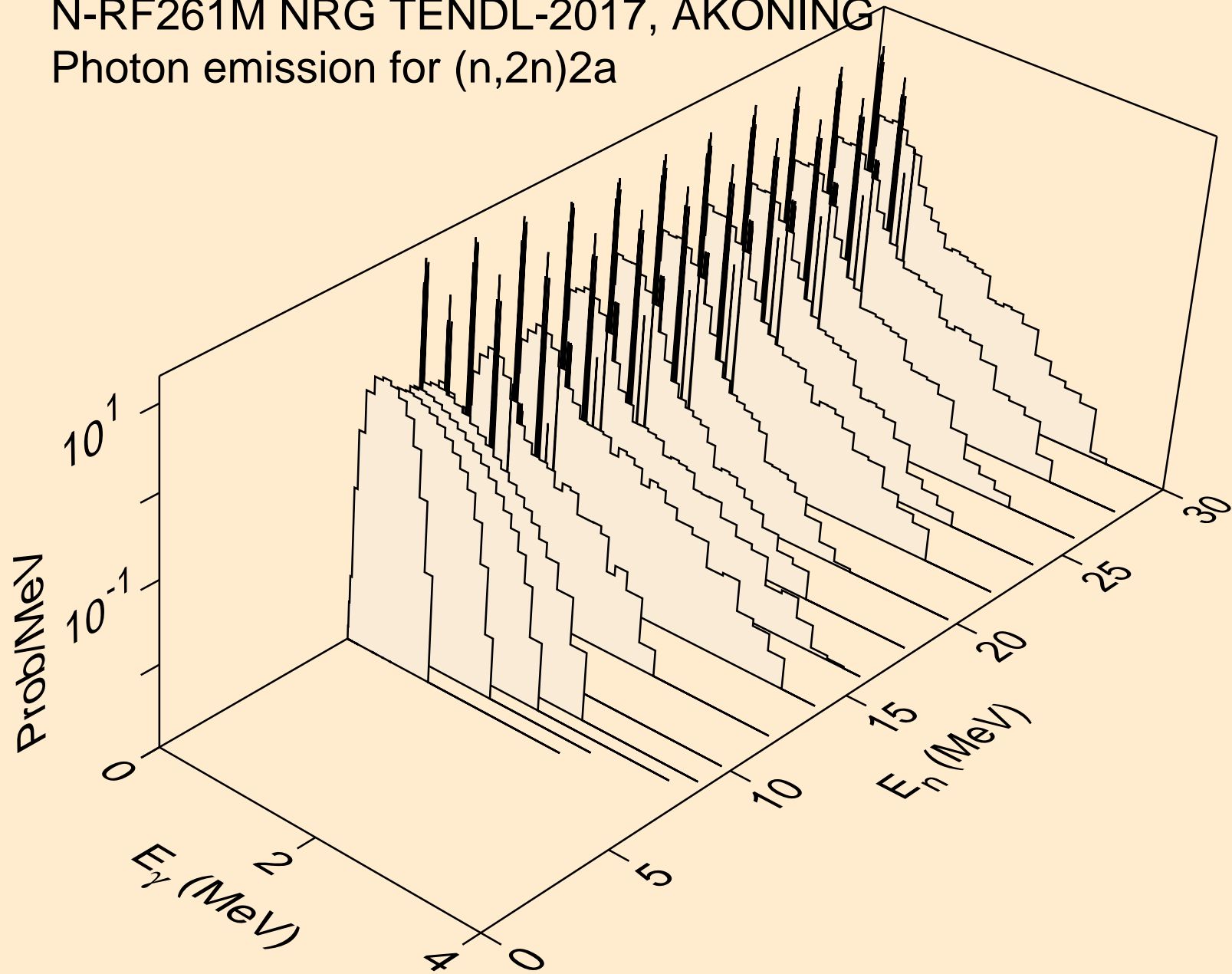N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,3n)a

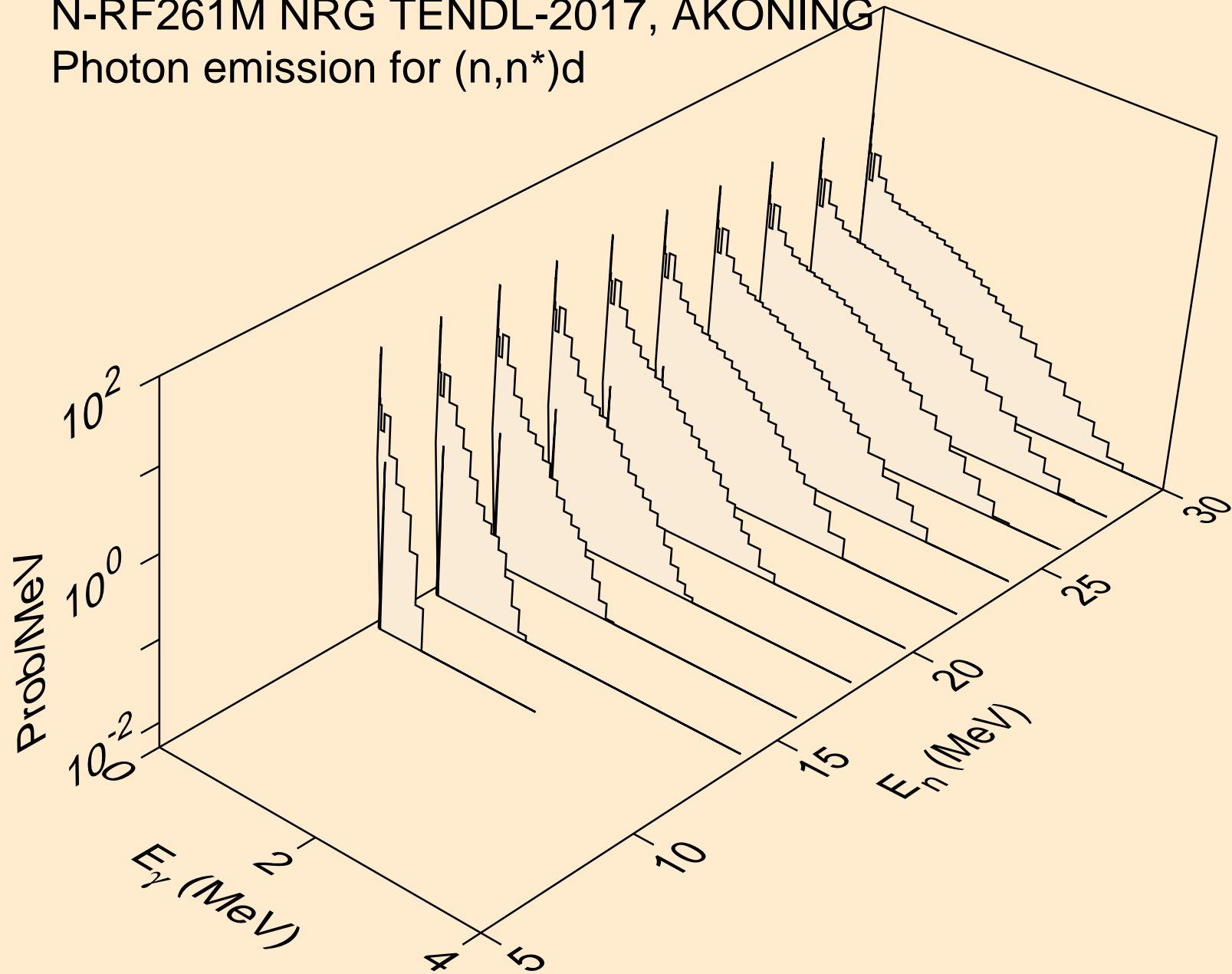N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*)p

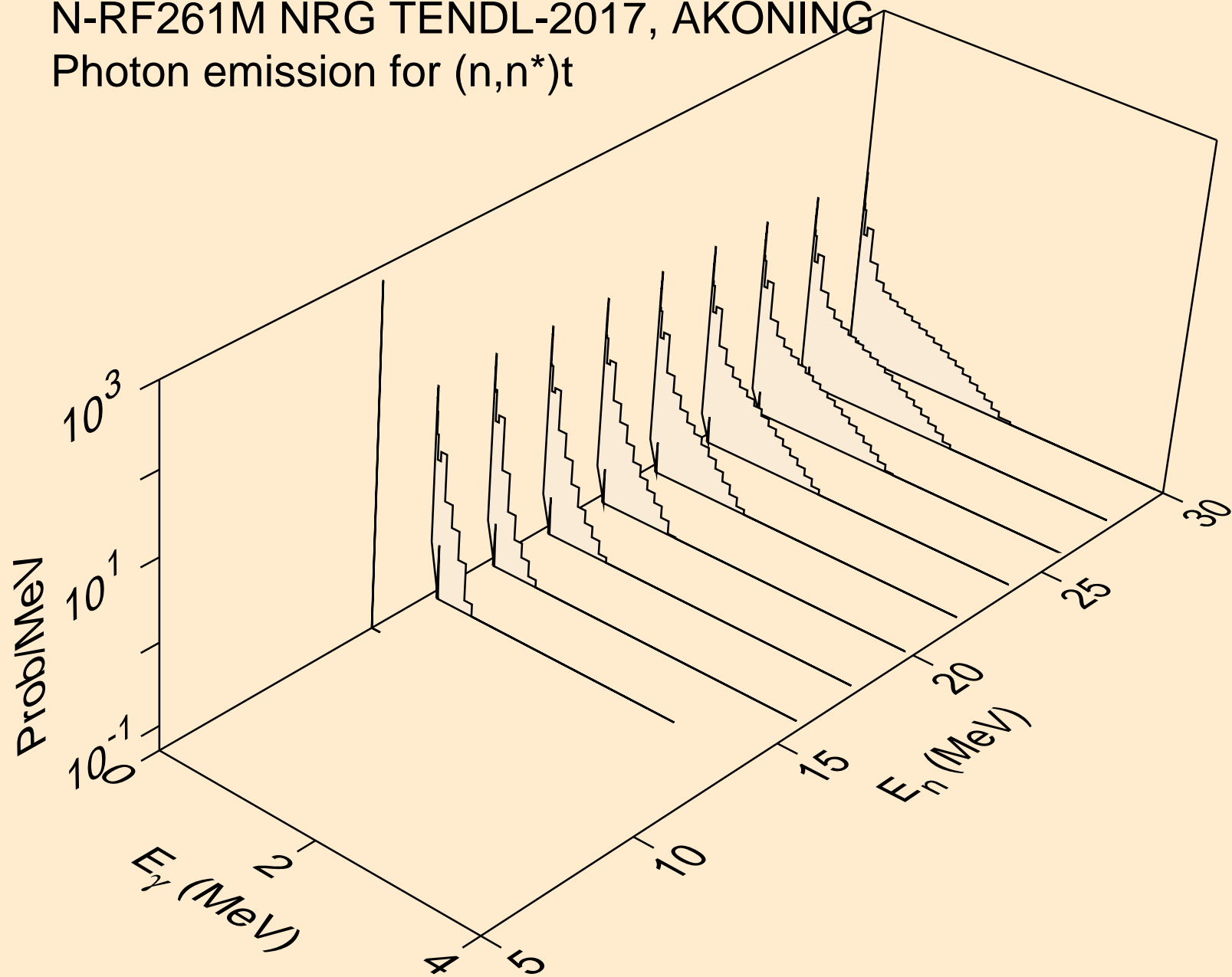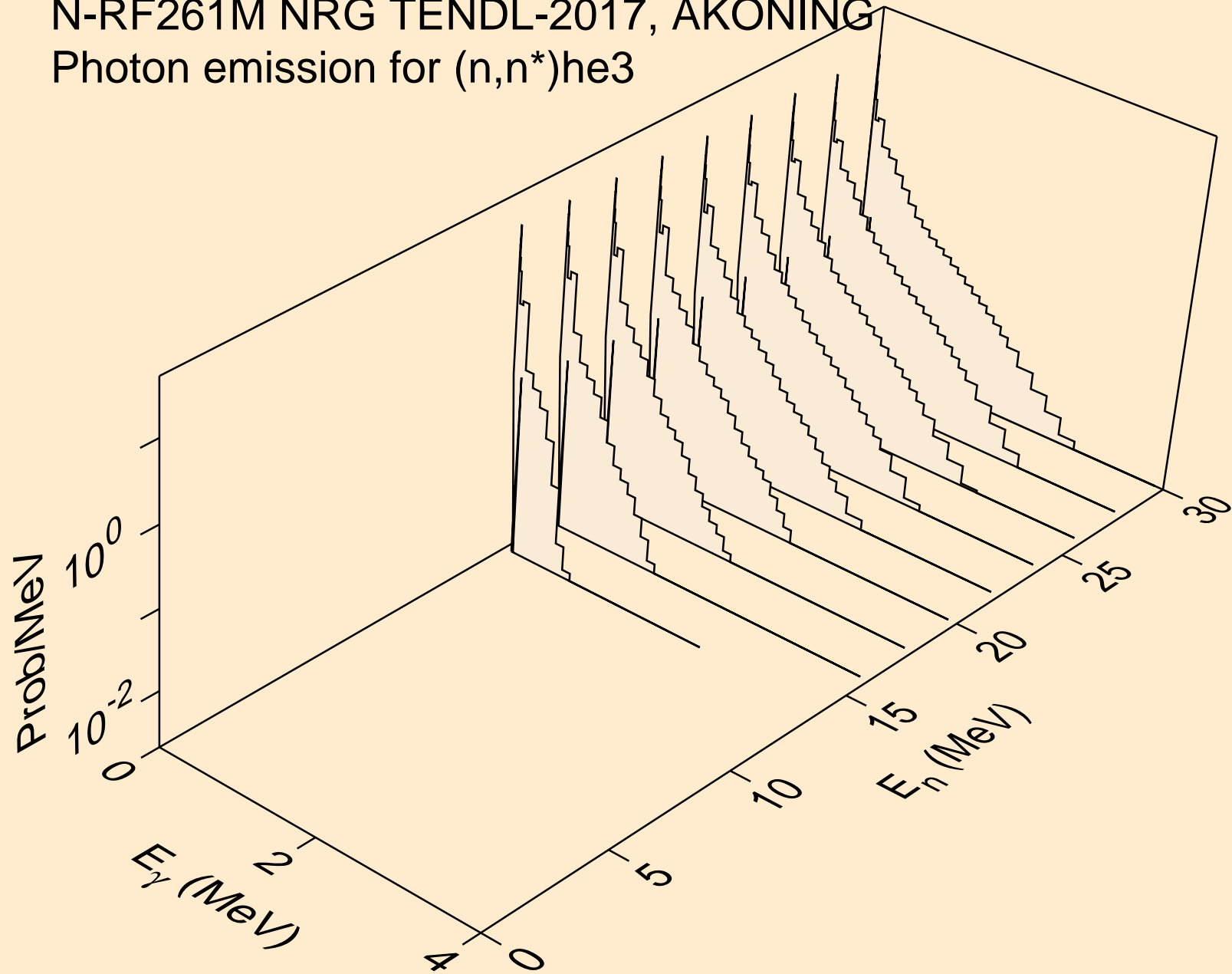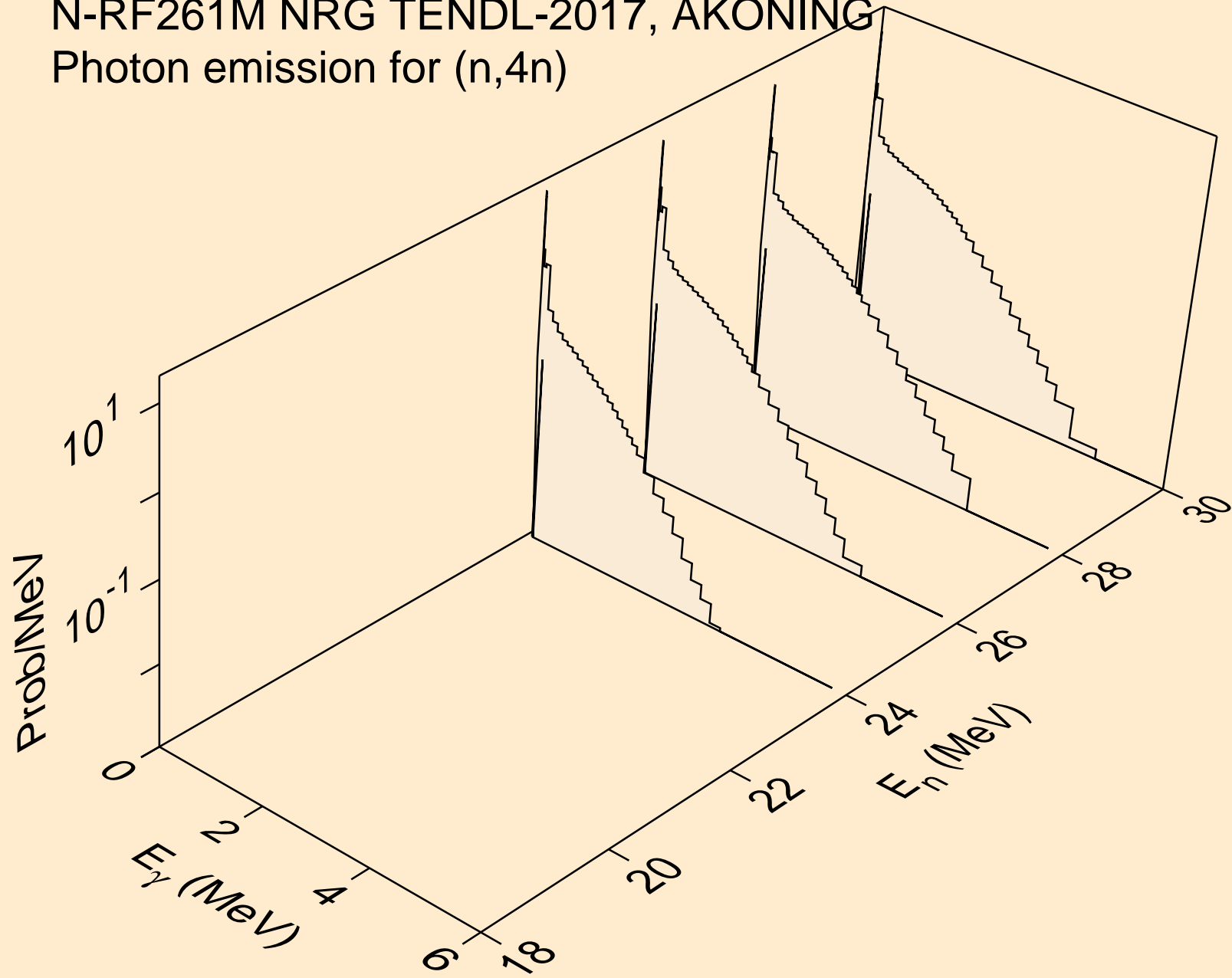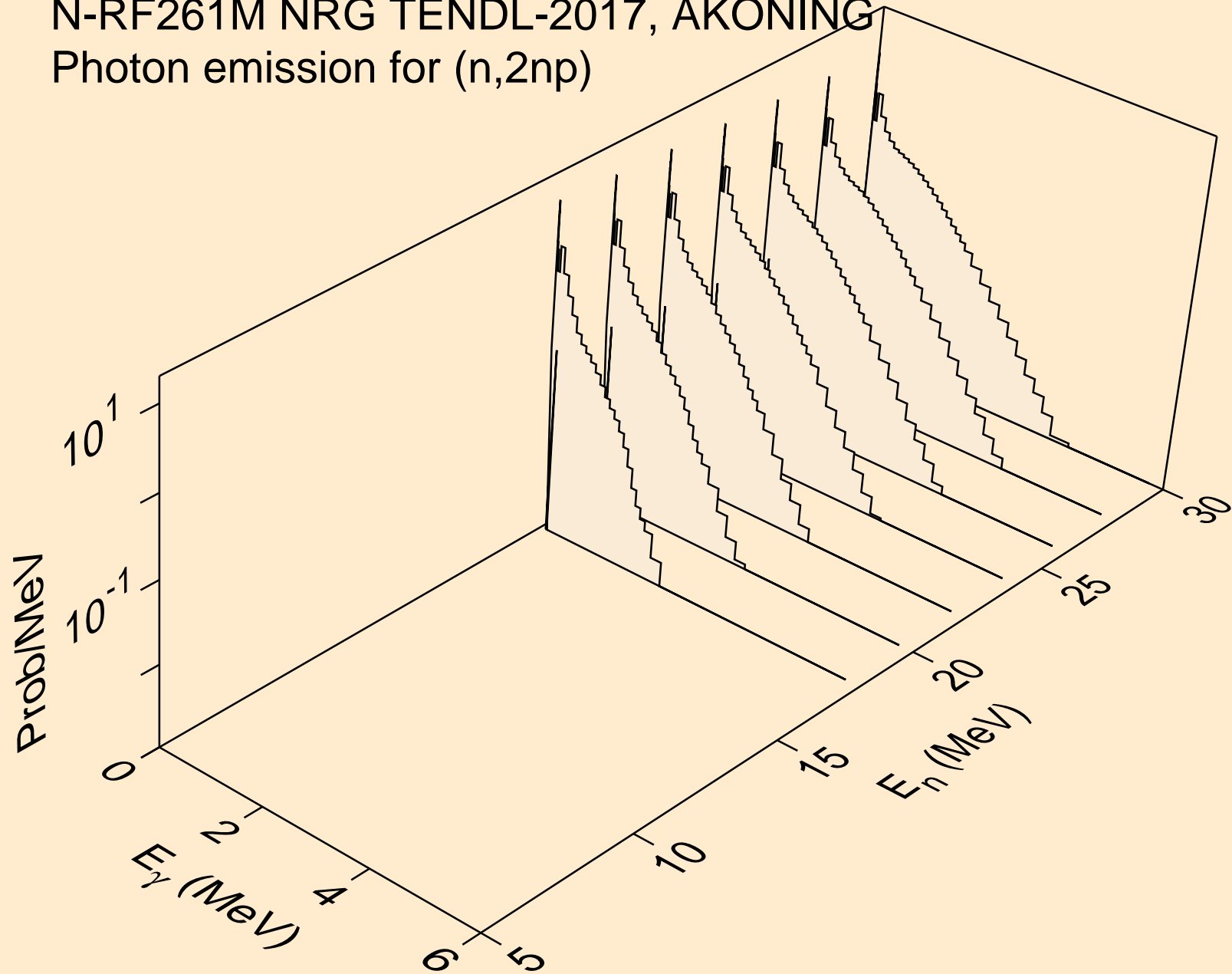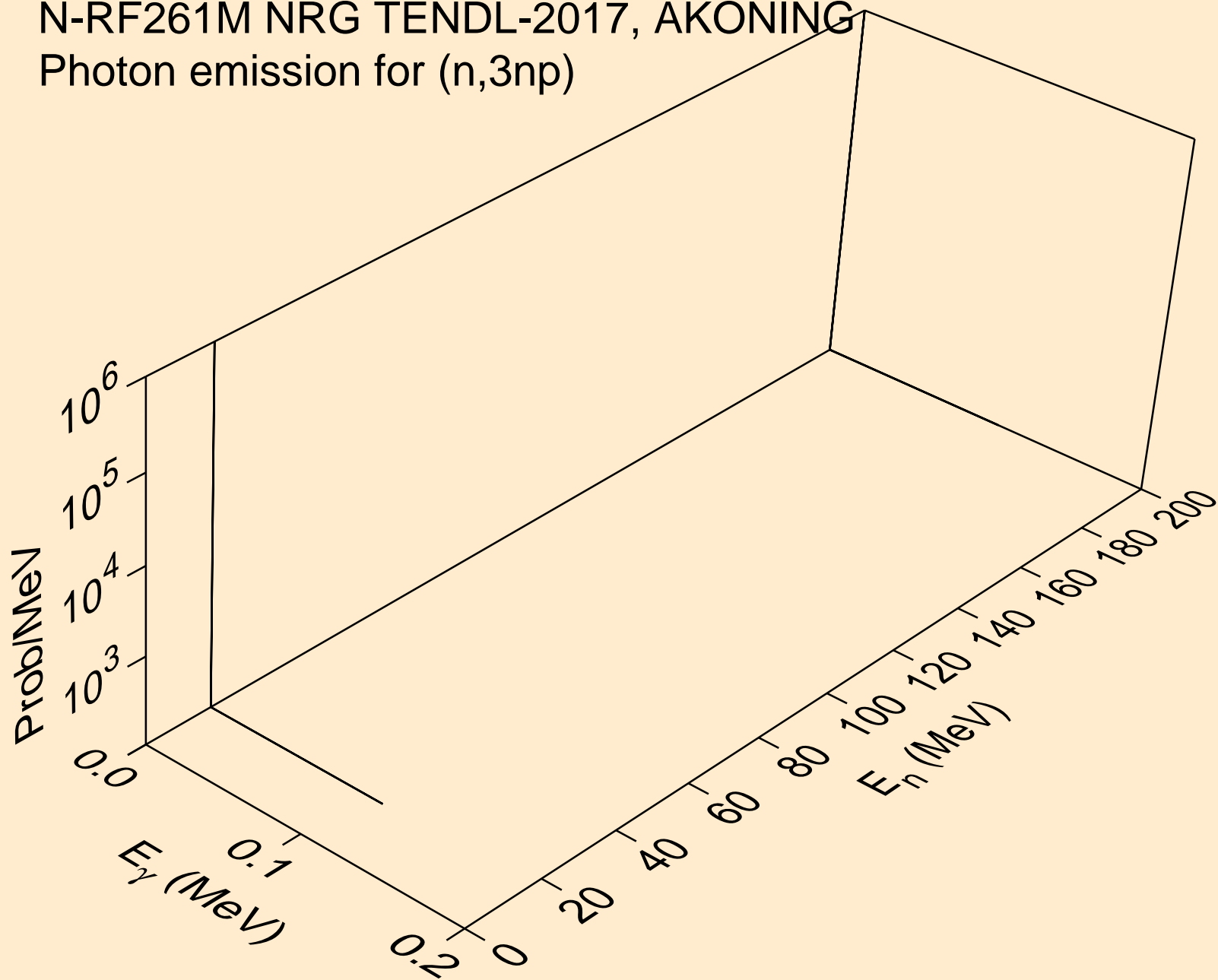N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*)2a
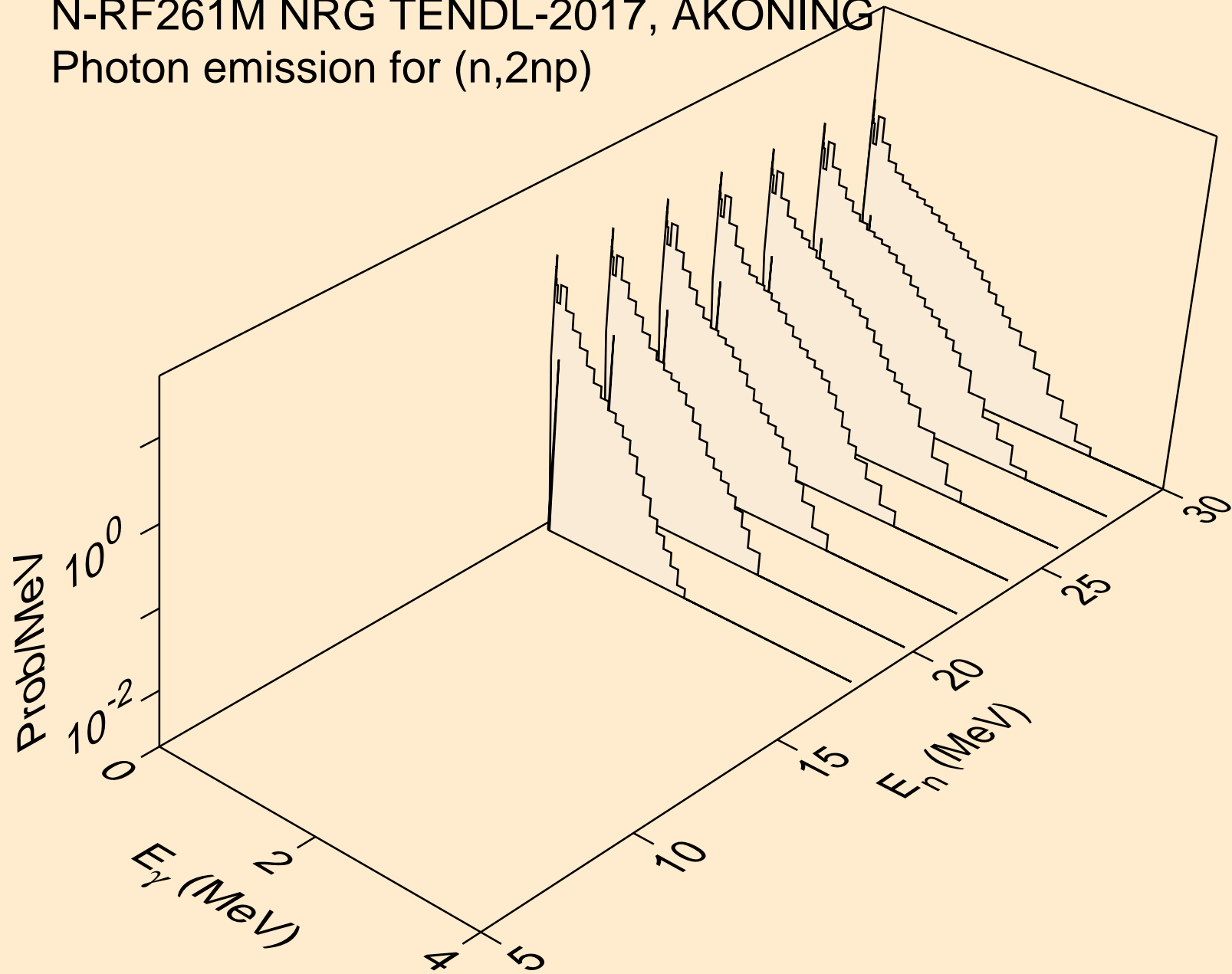
N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,2n)2a

N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*)d

N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*)t

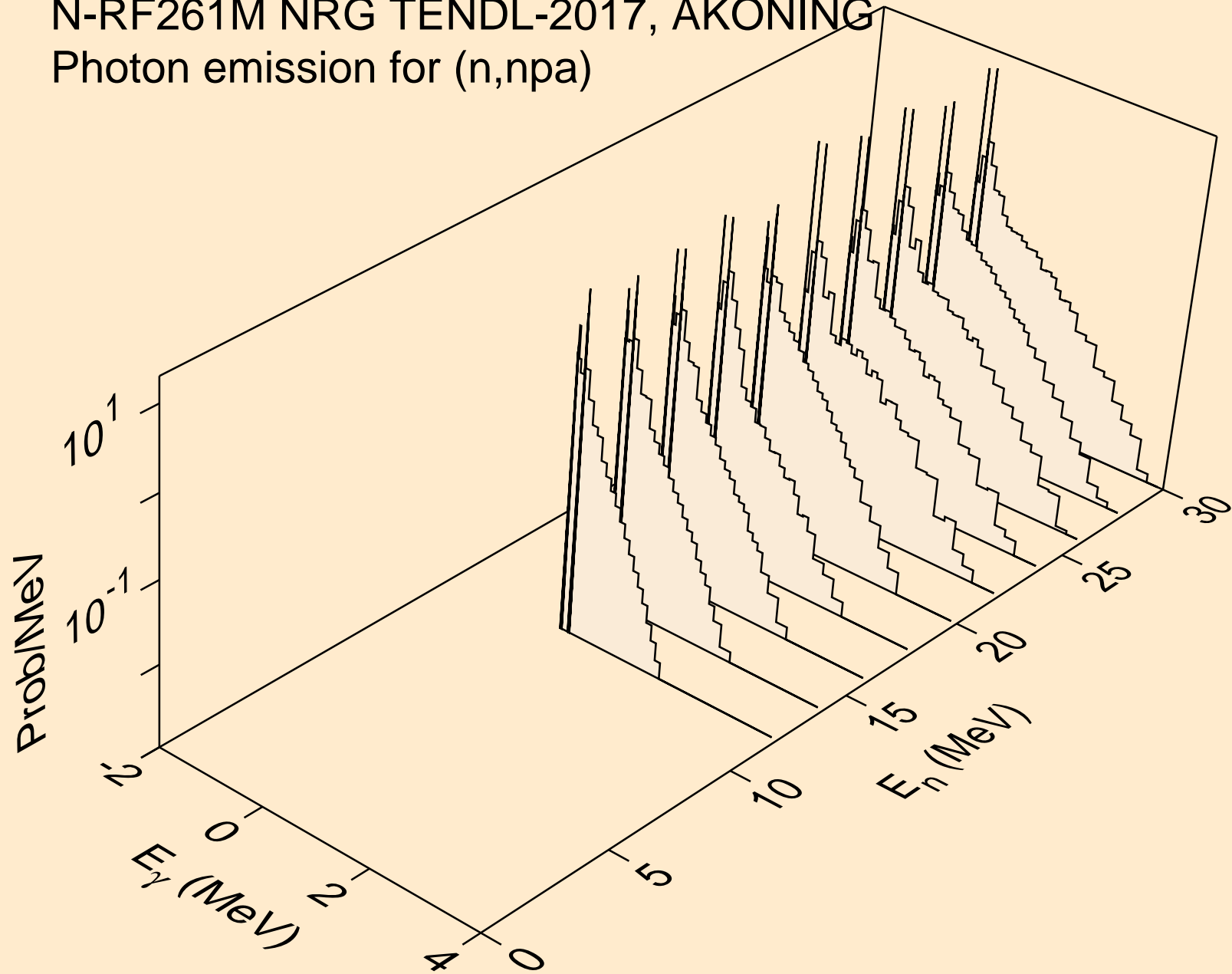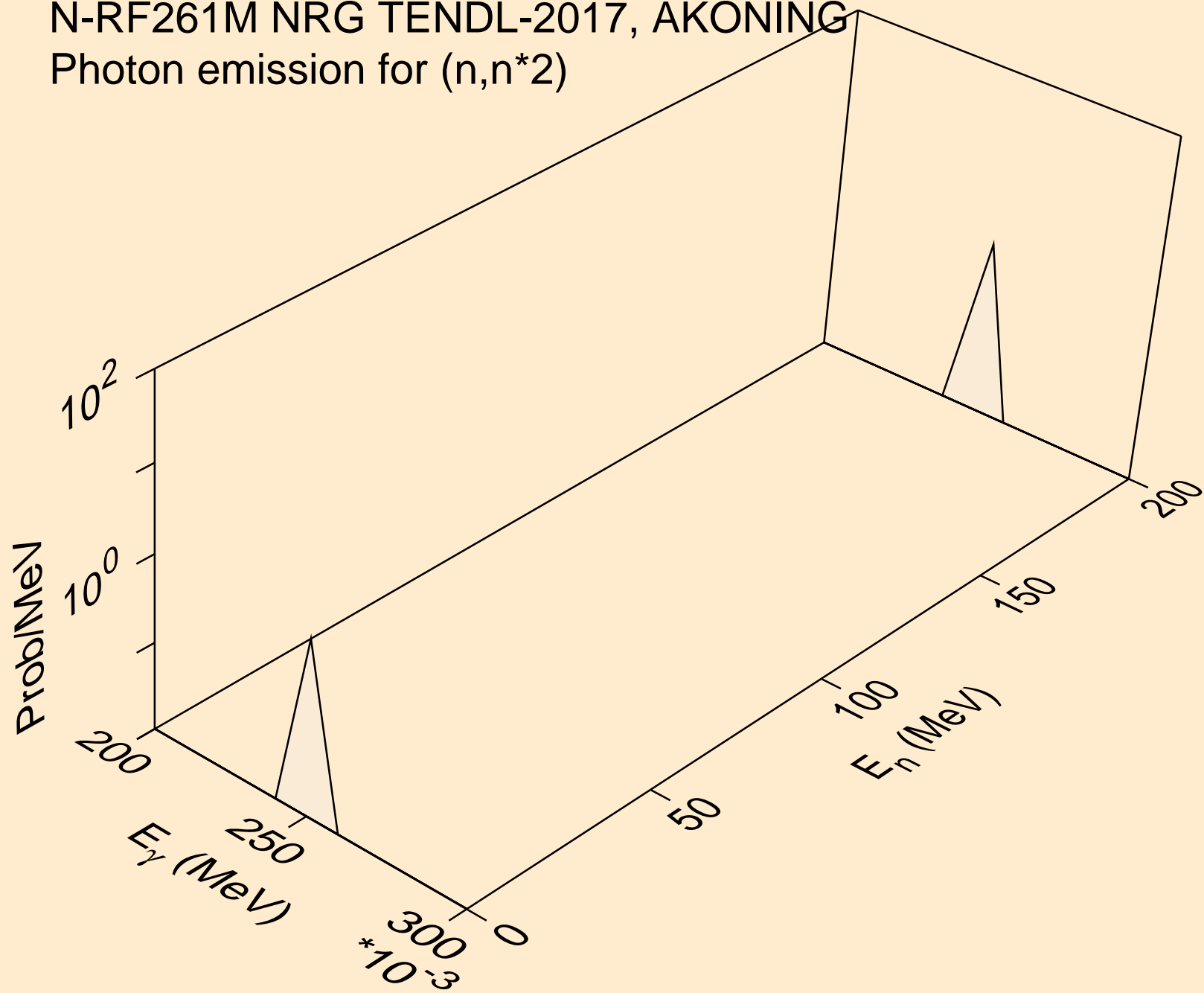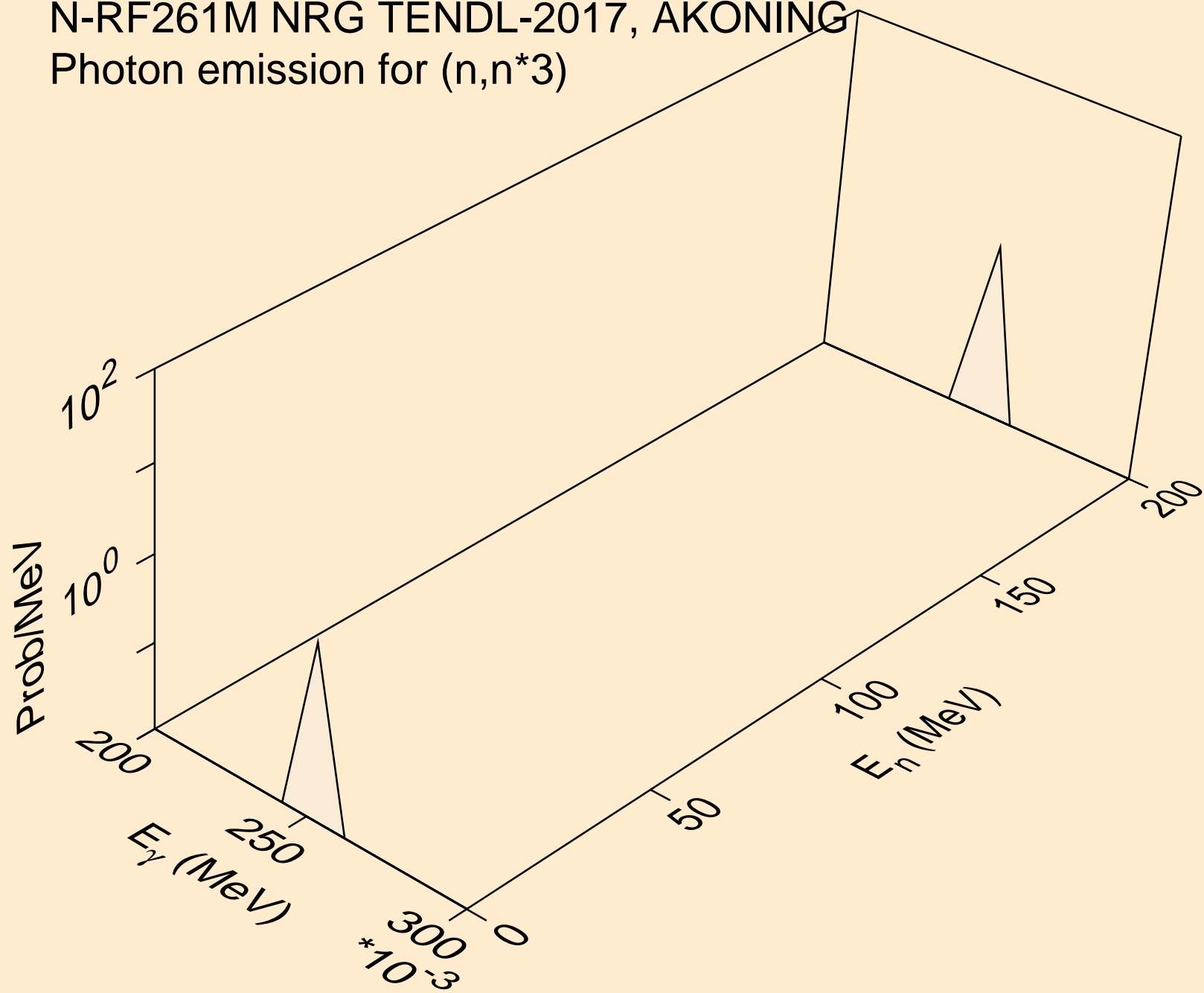N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*)he3

N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,4n)

N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,2np)

N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,3np)

N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,2np)

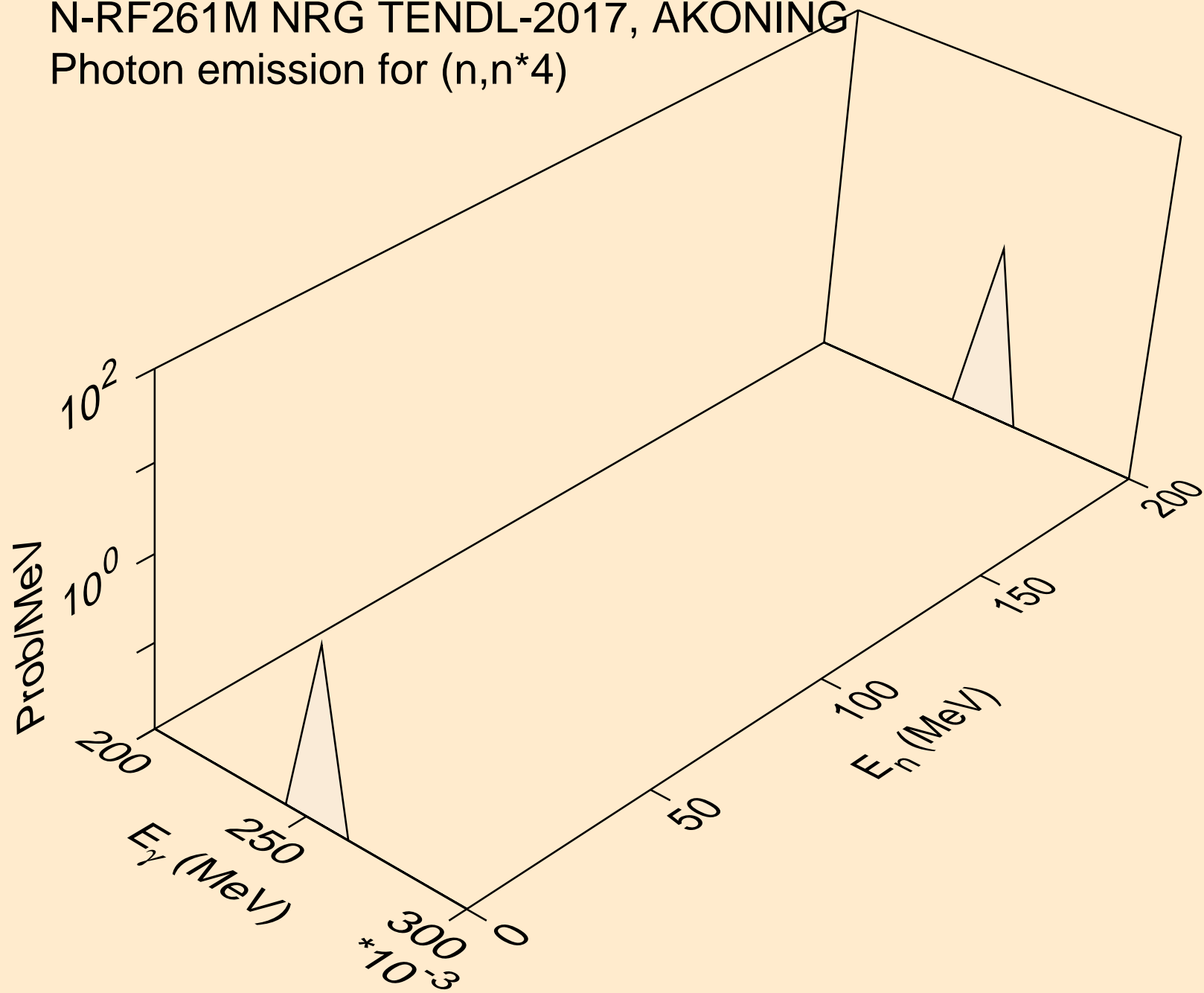N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,npa)

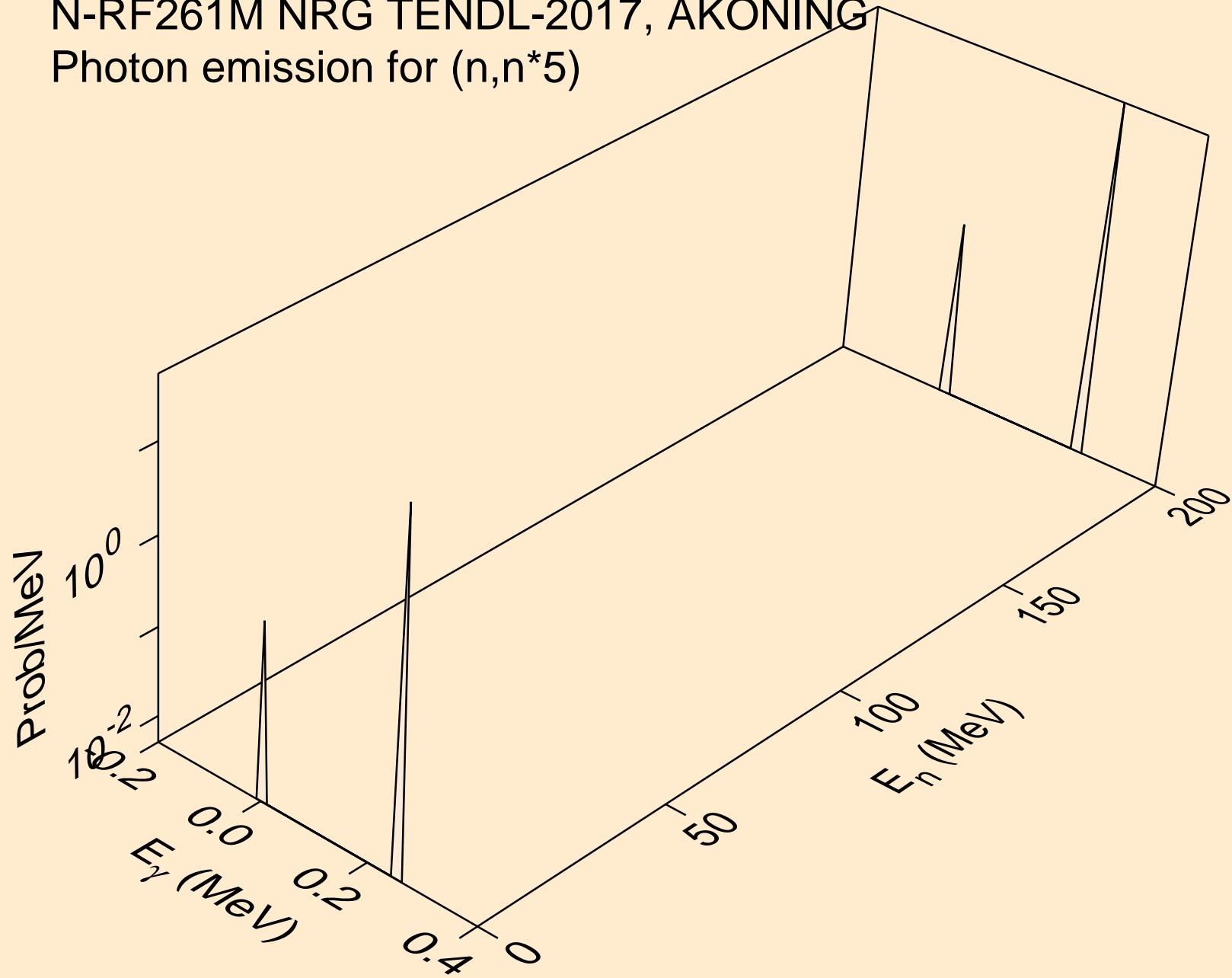N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*2)

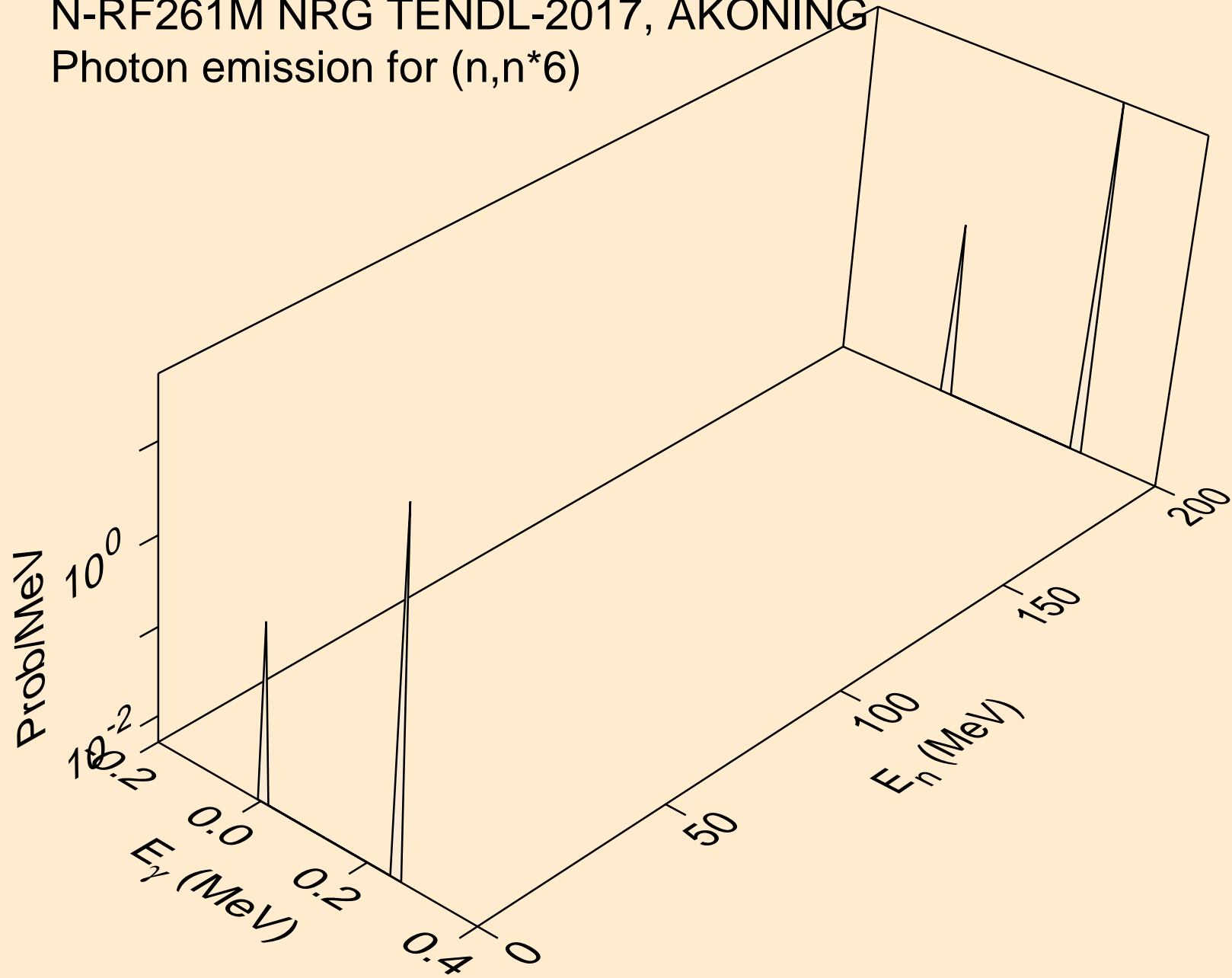N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*3)

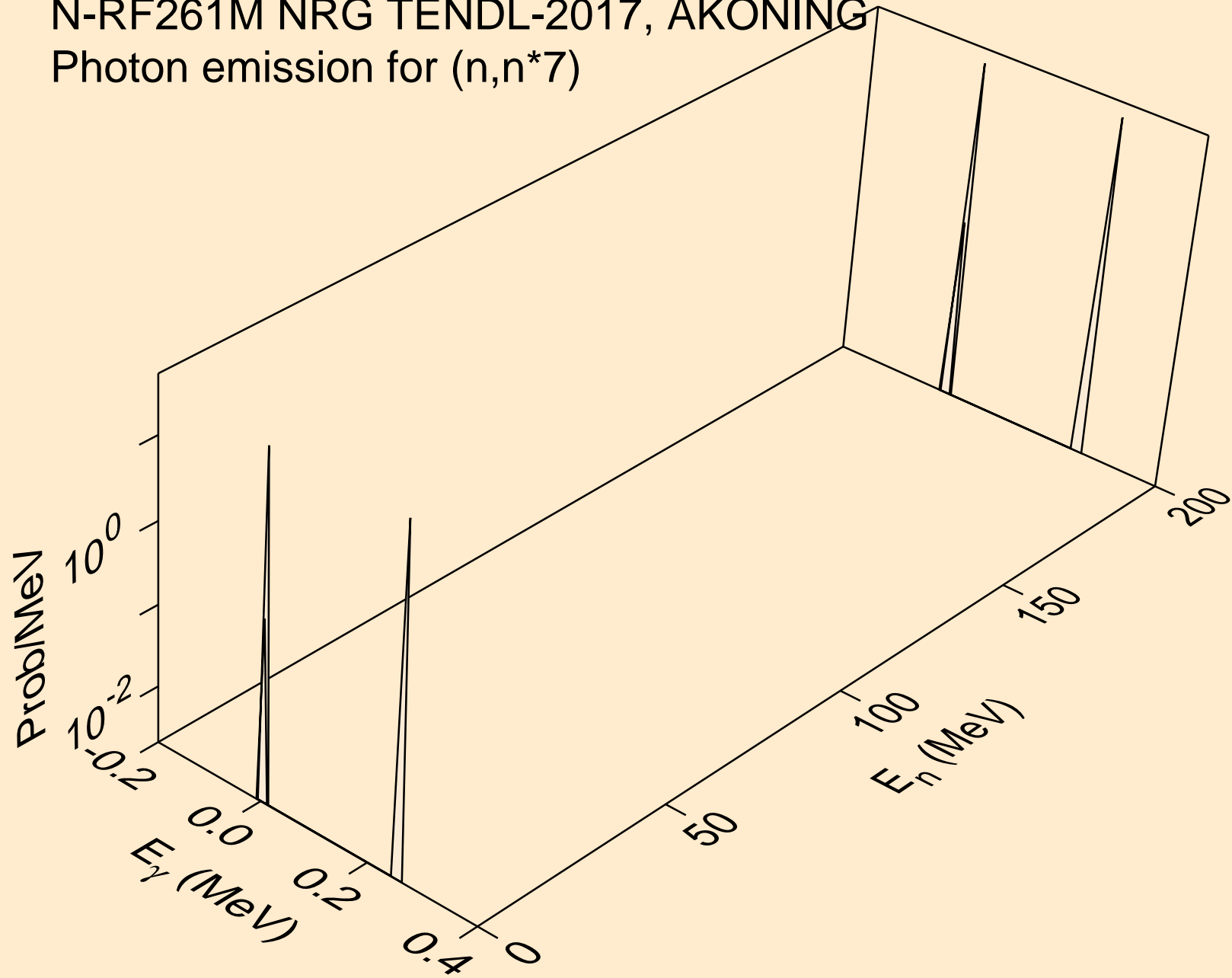N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*4)

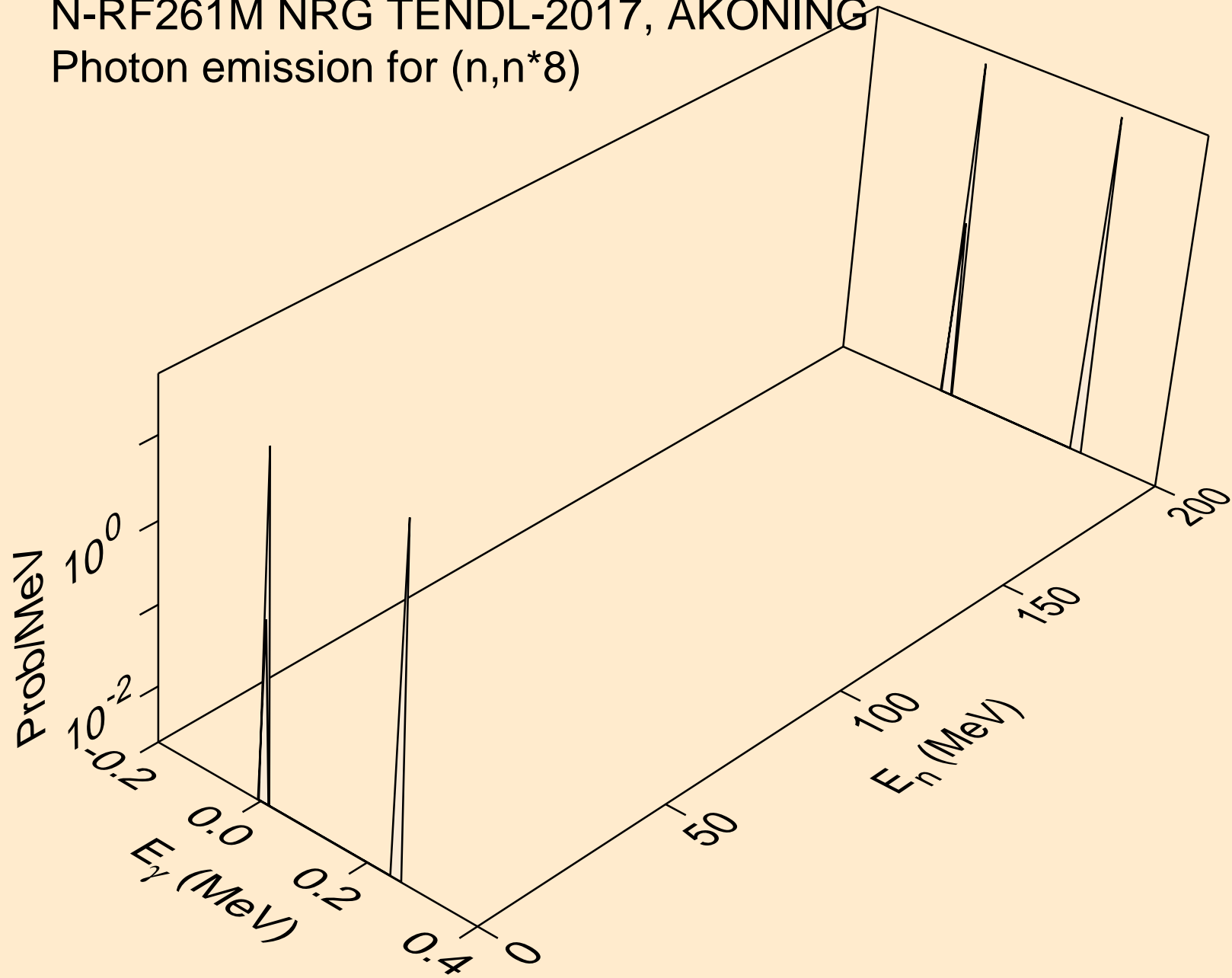N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*5)

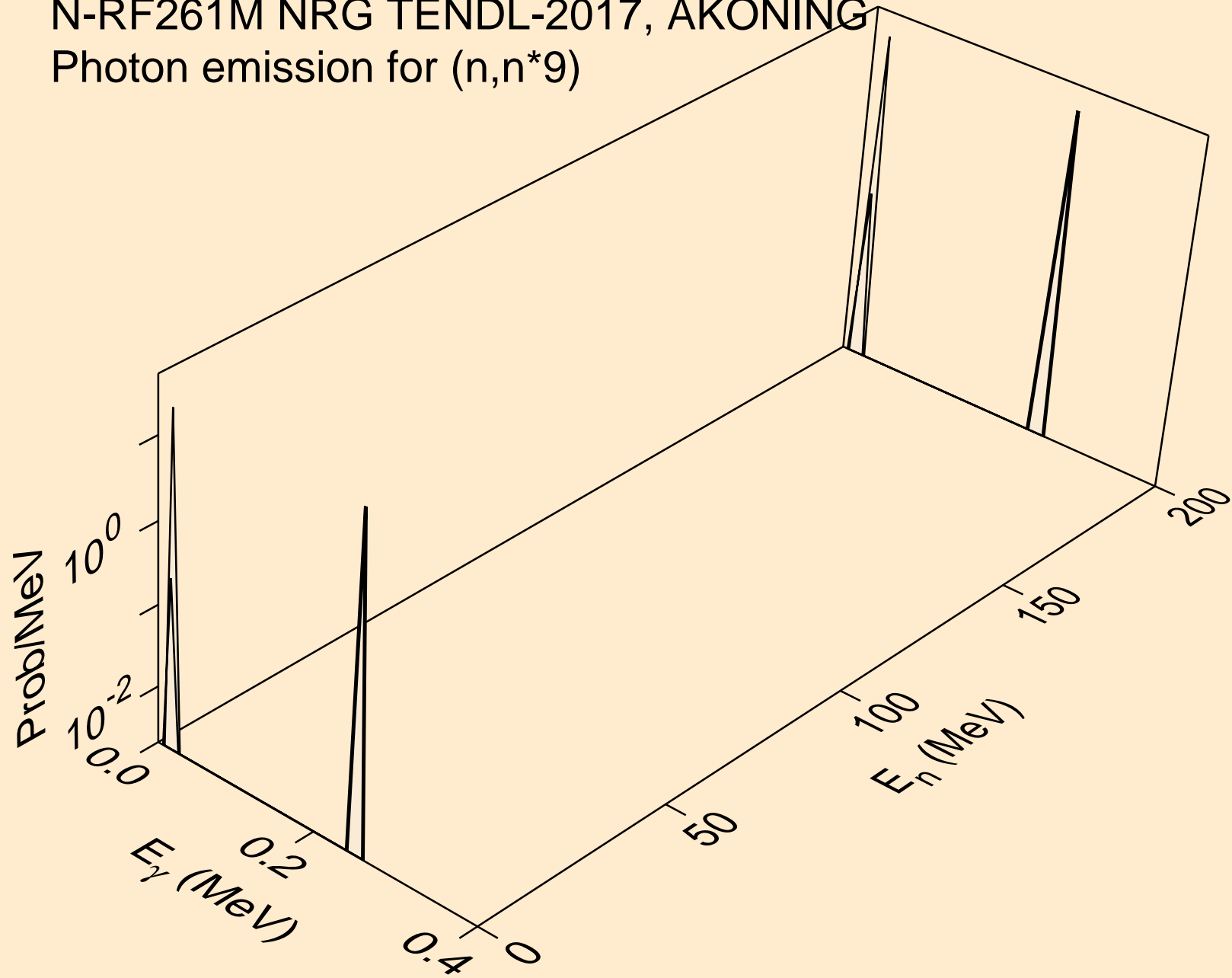N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*6)

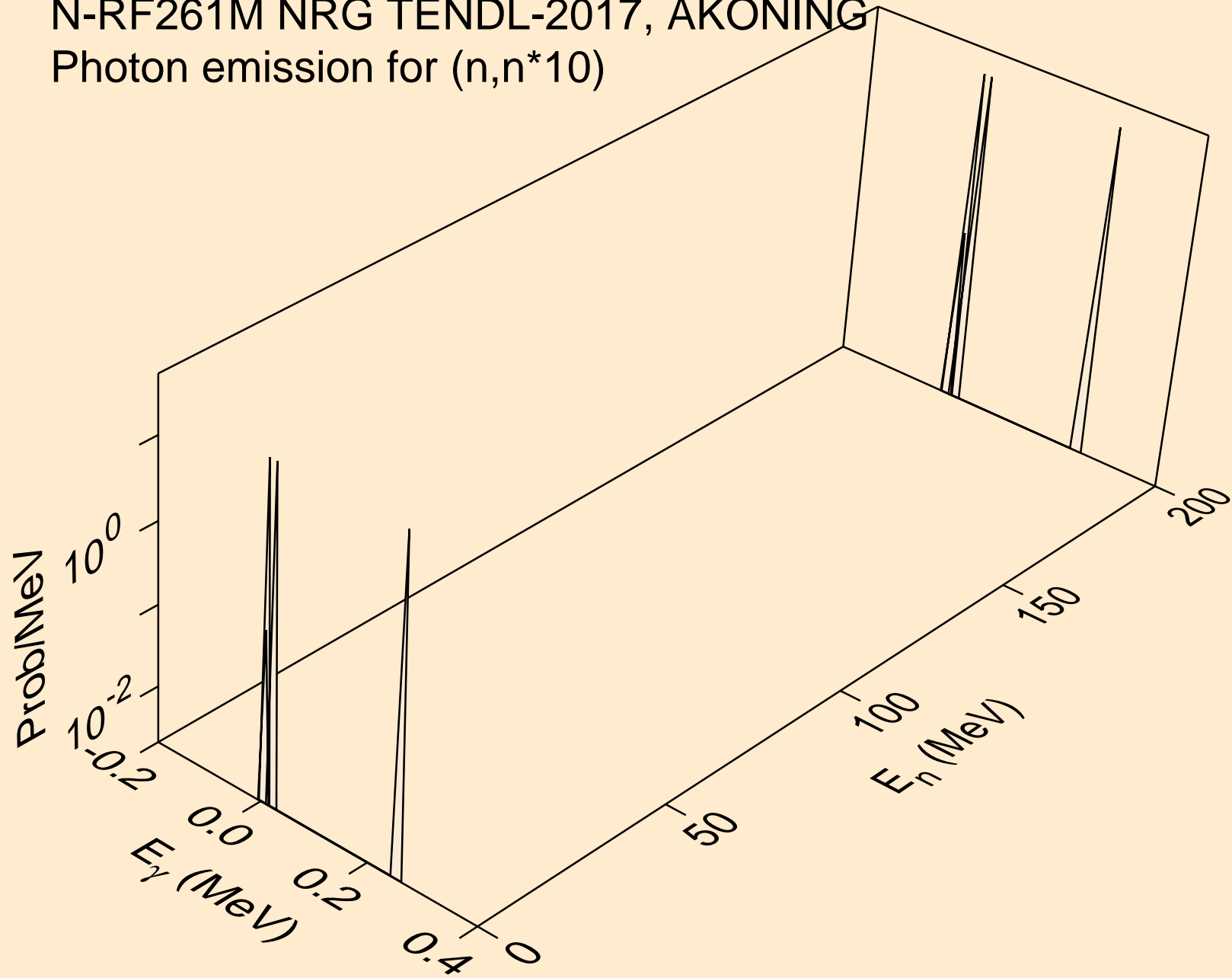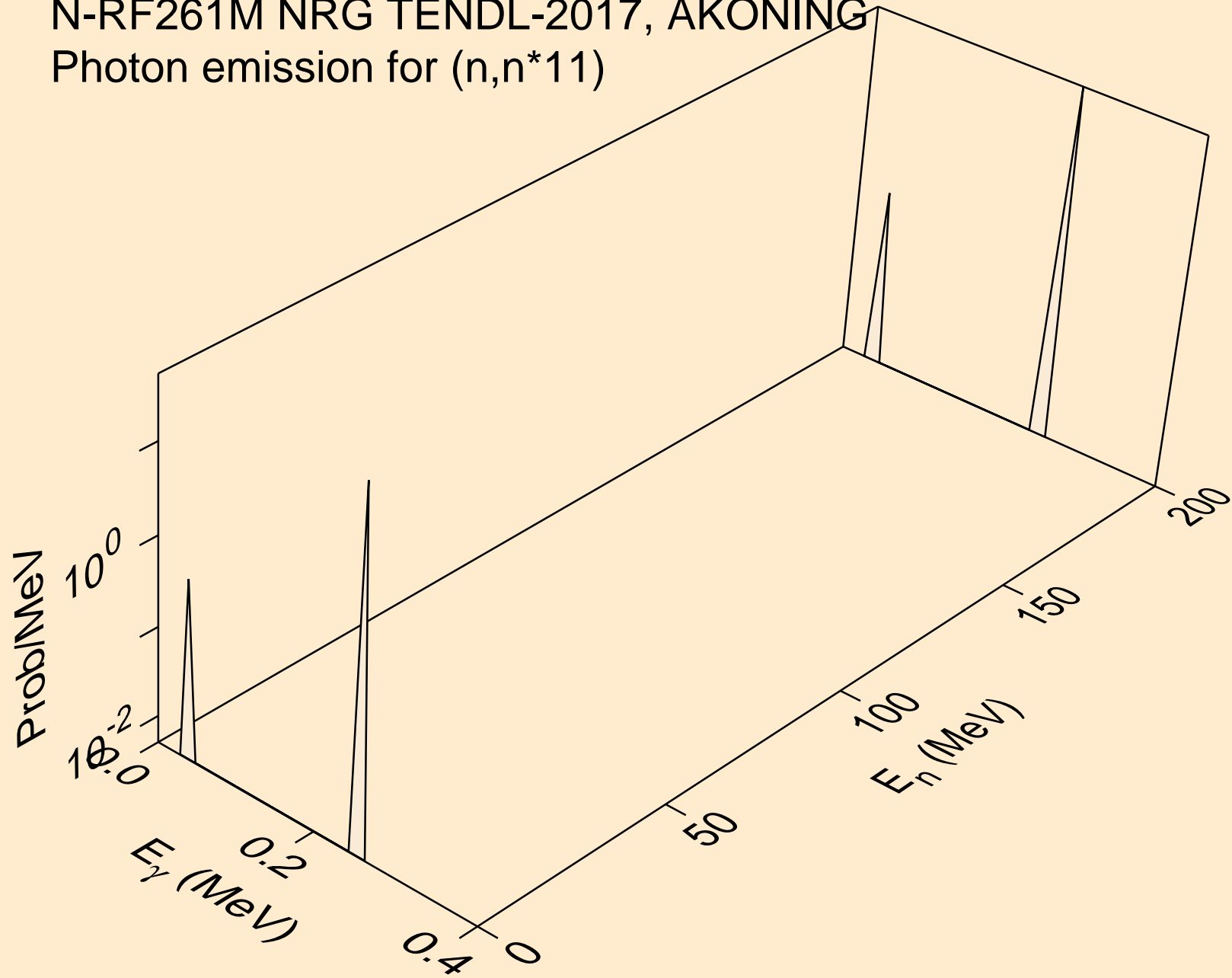N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*7)

N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*8)

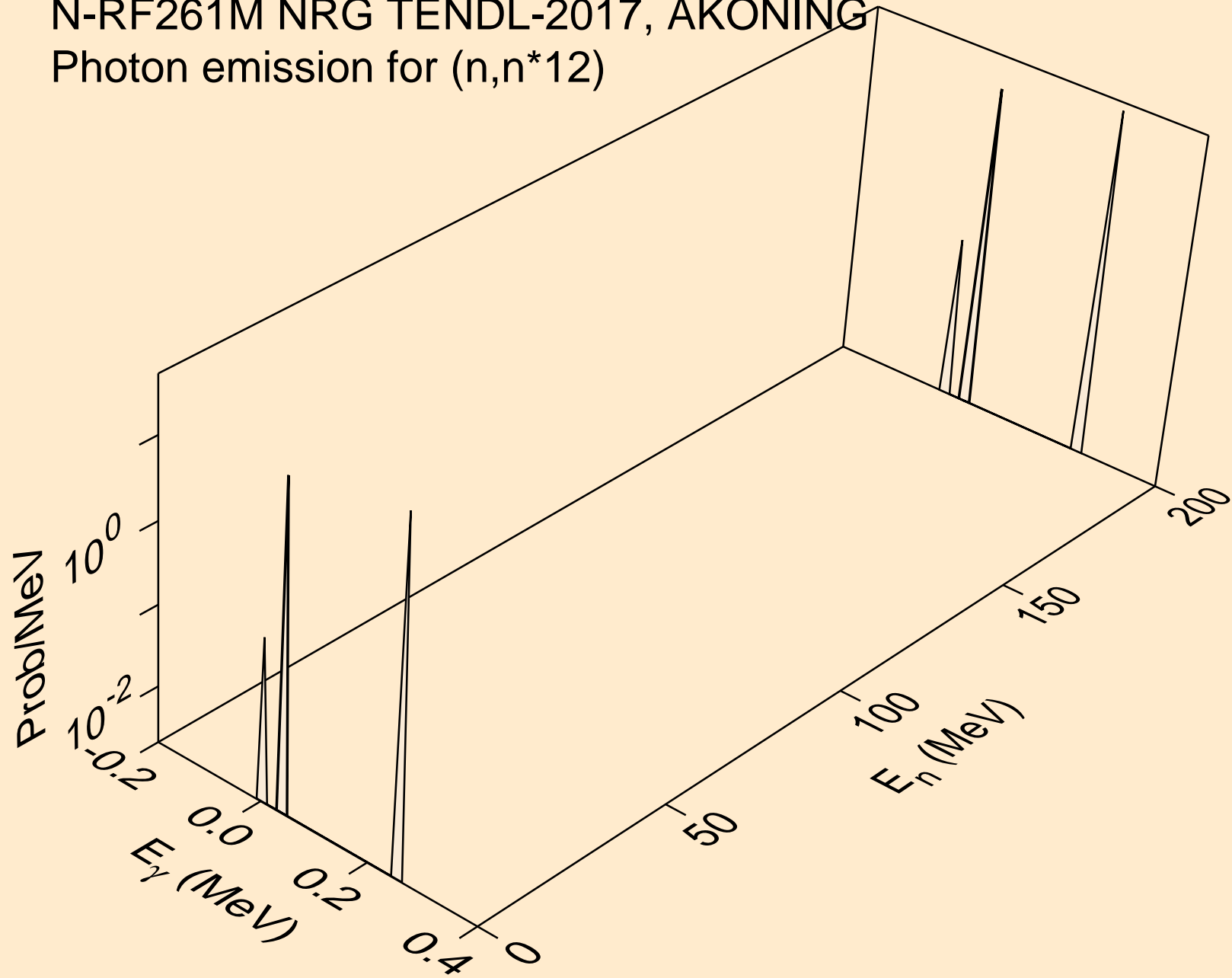N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*9)

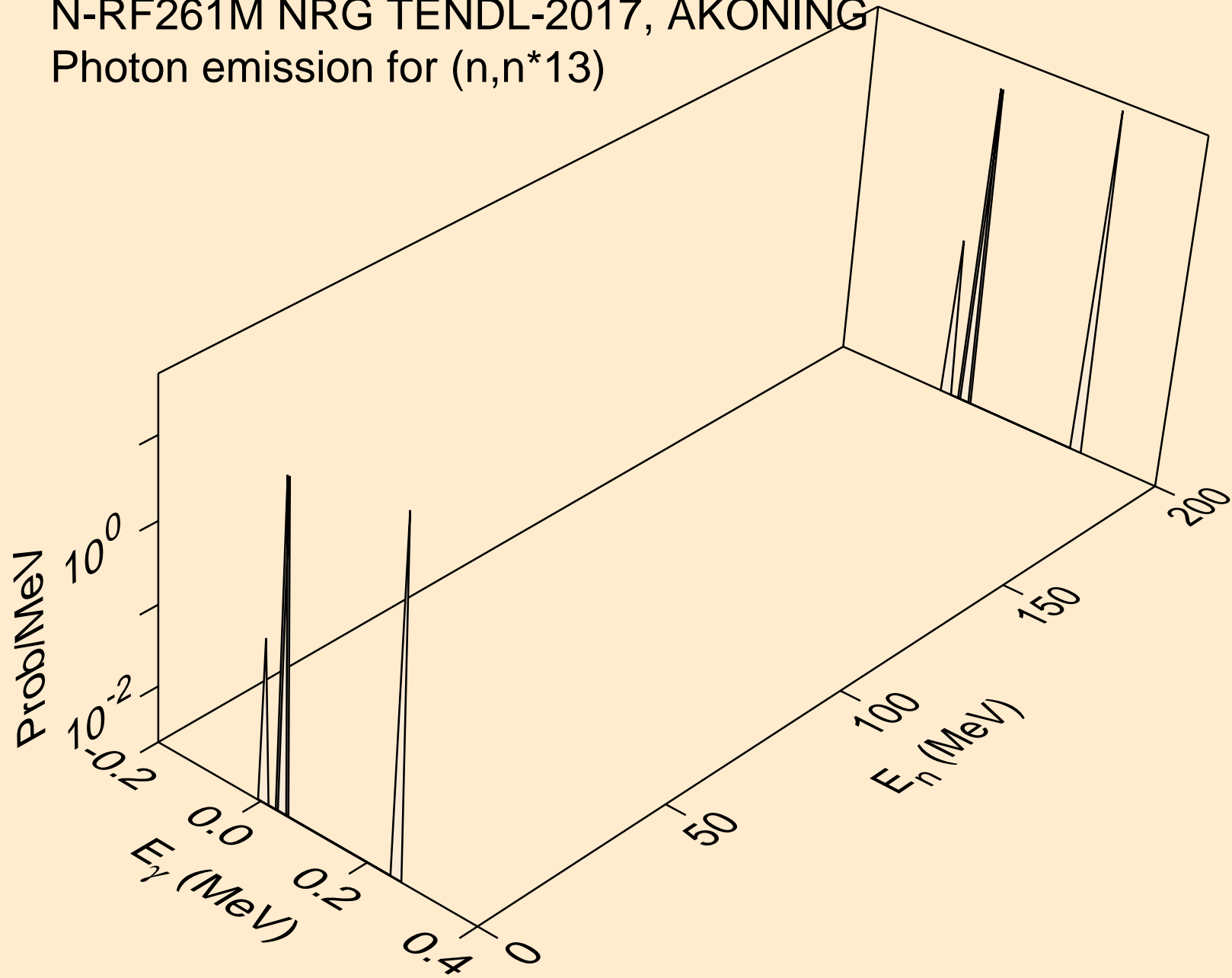N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*10)

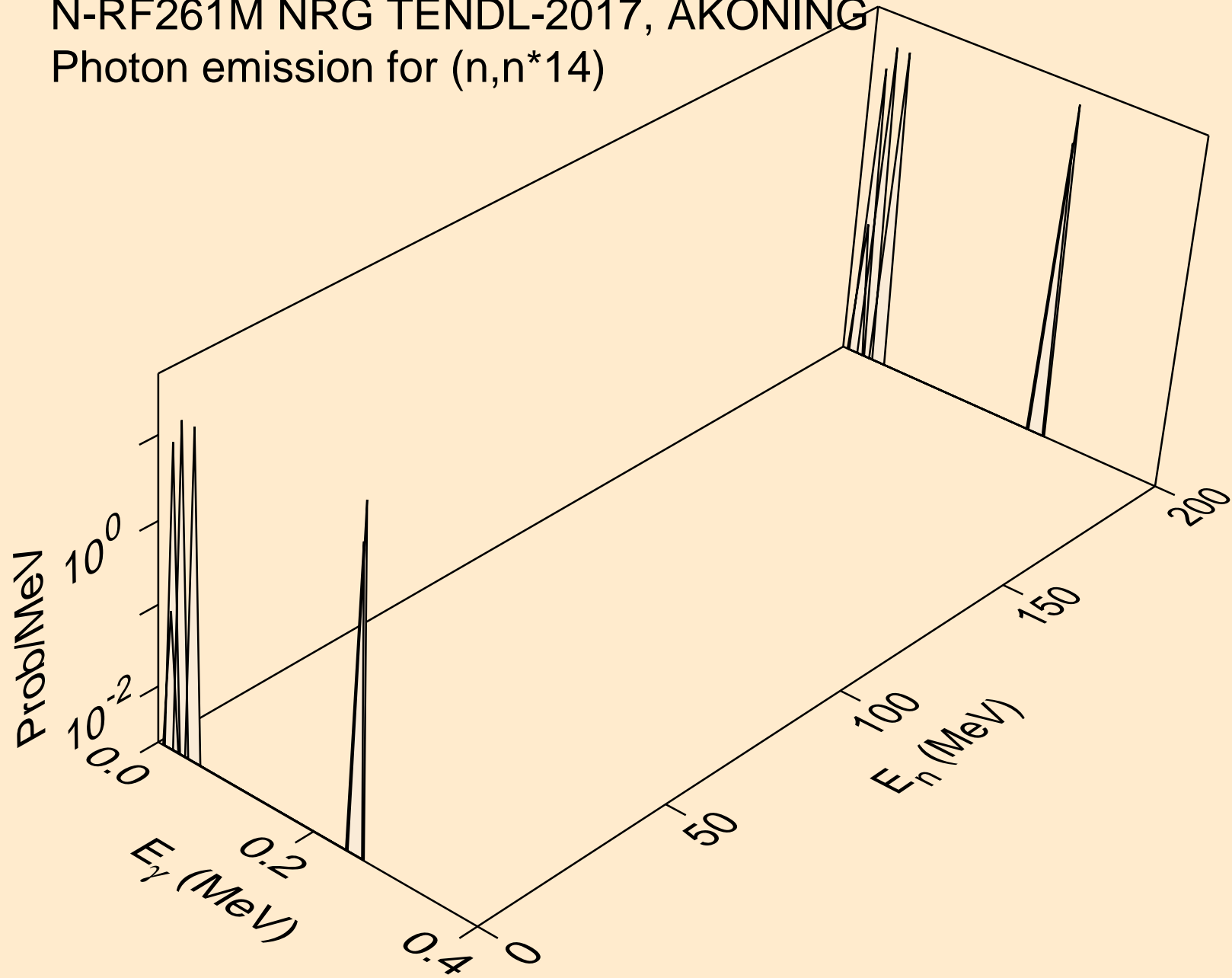N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*11)

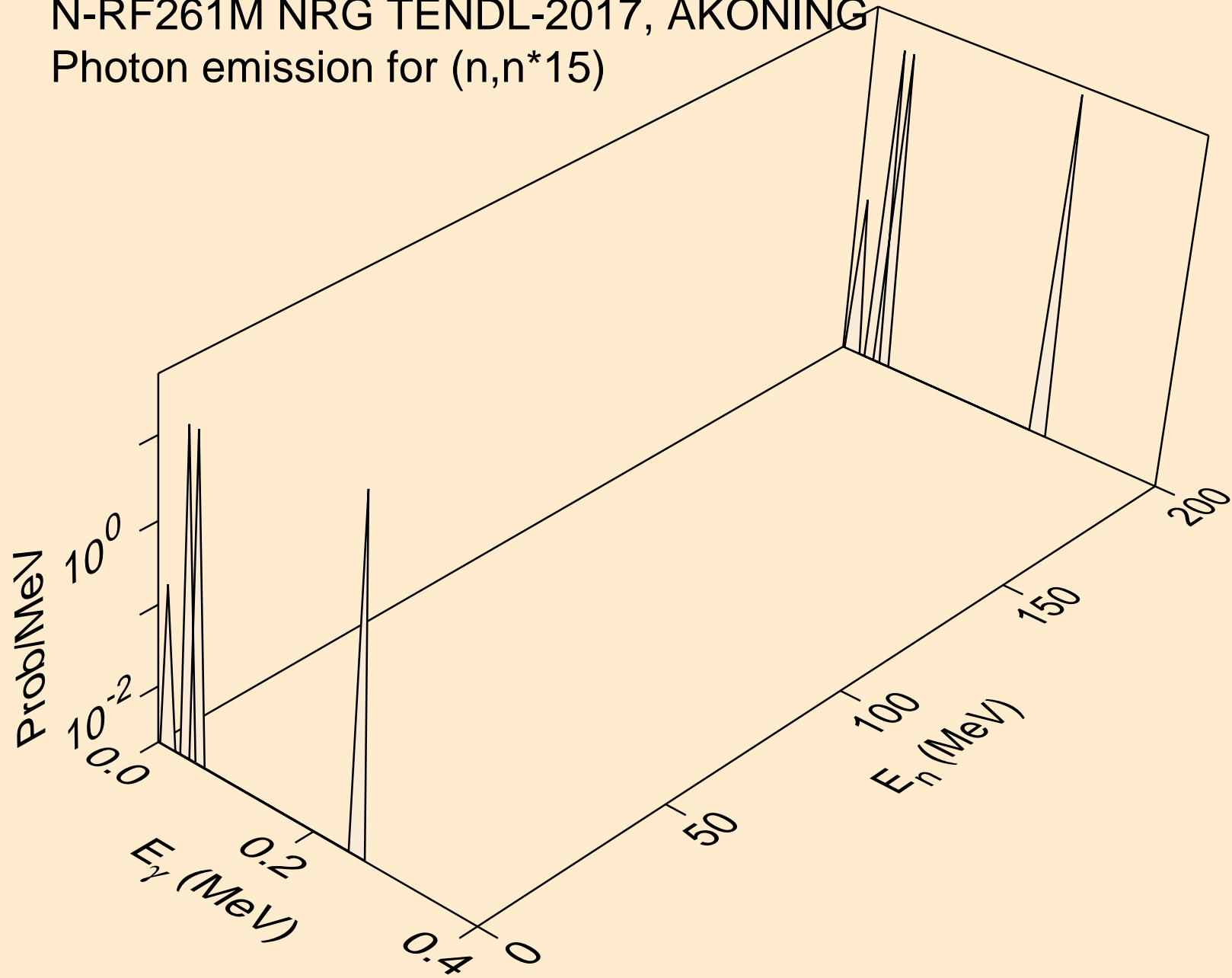N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*12)

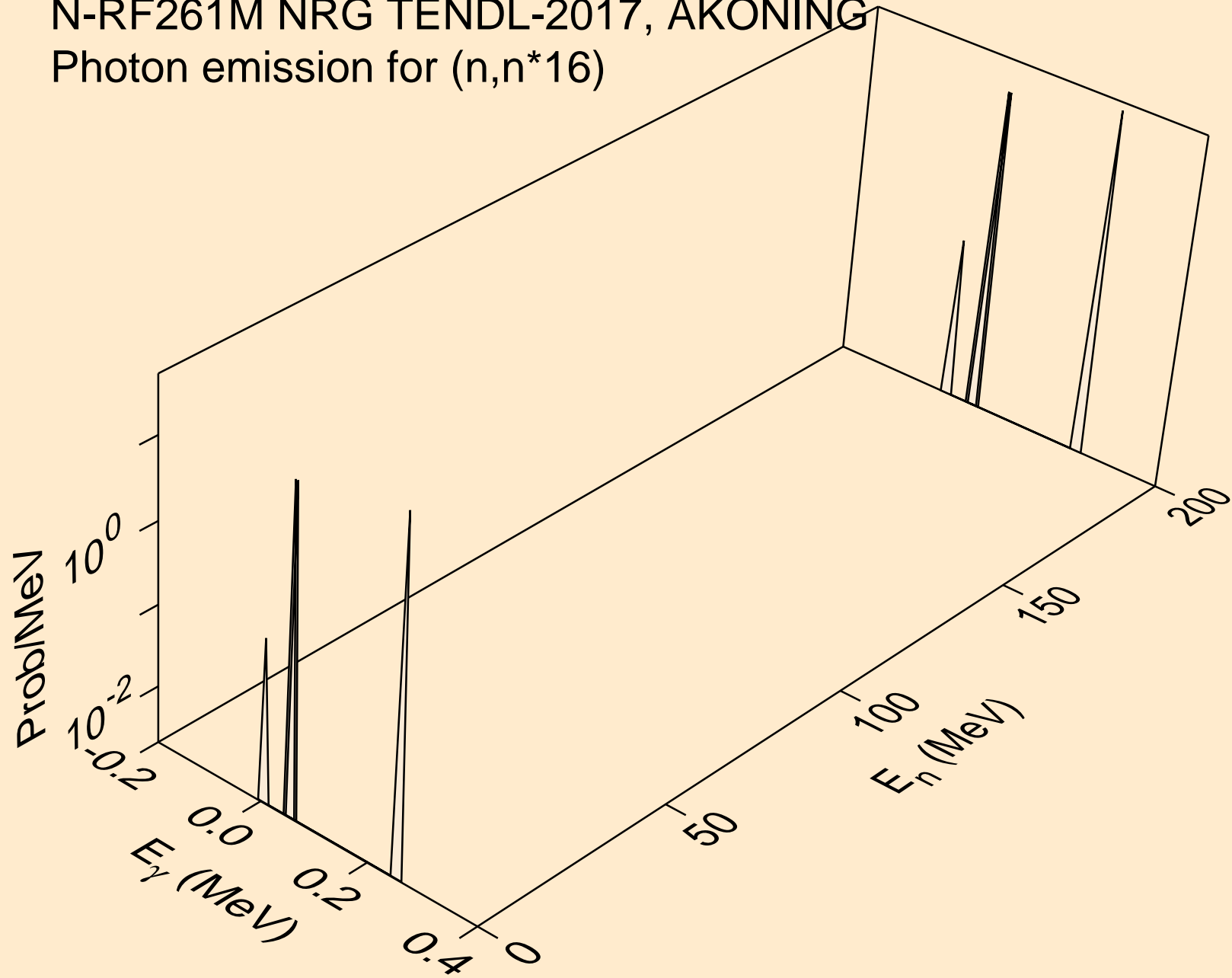N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*13)

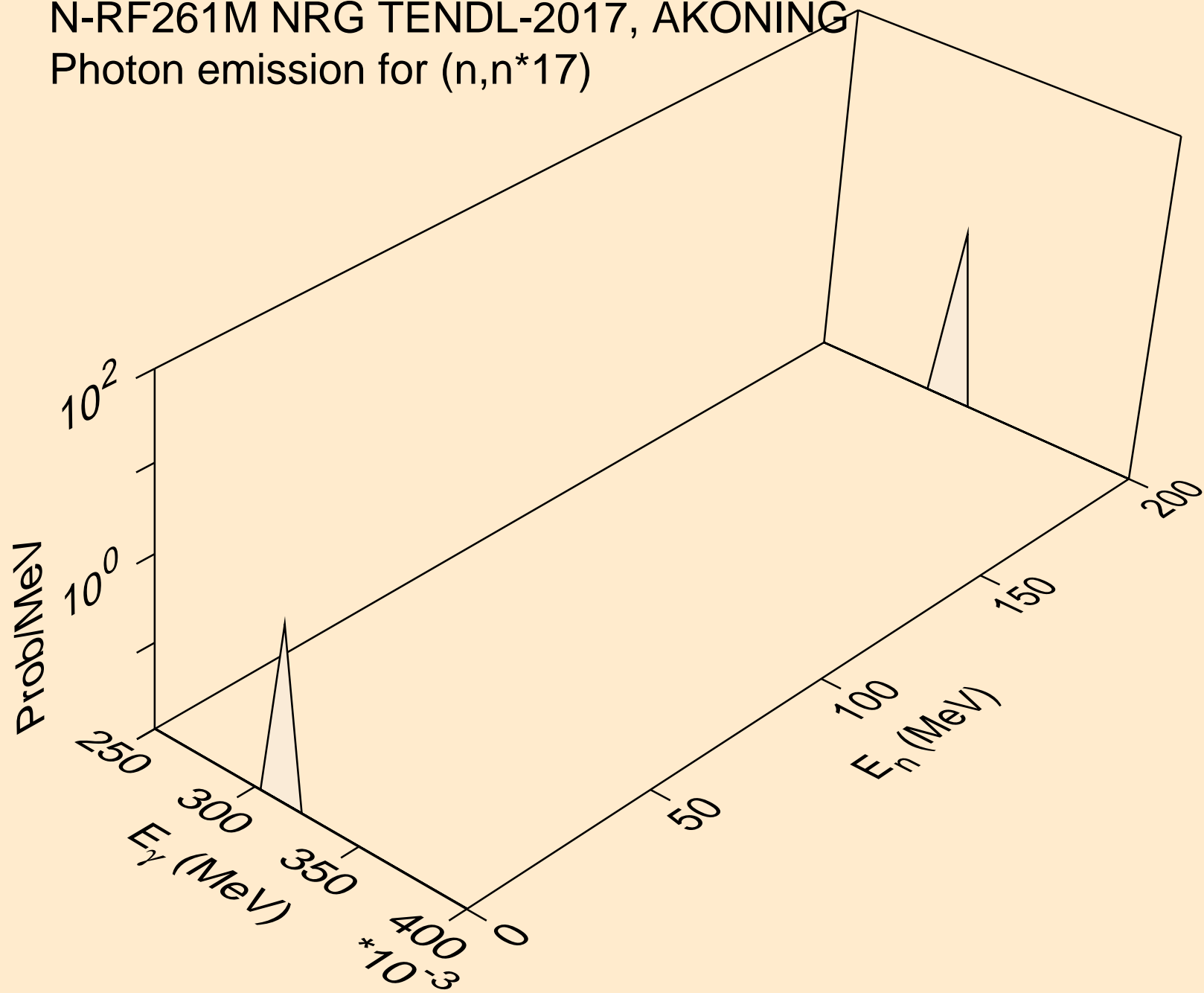N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*14)

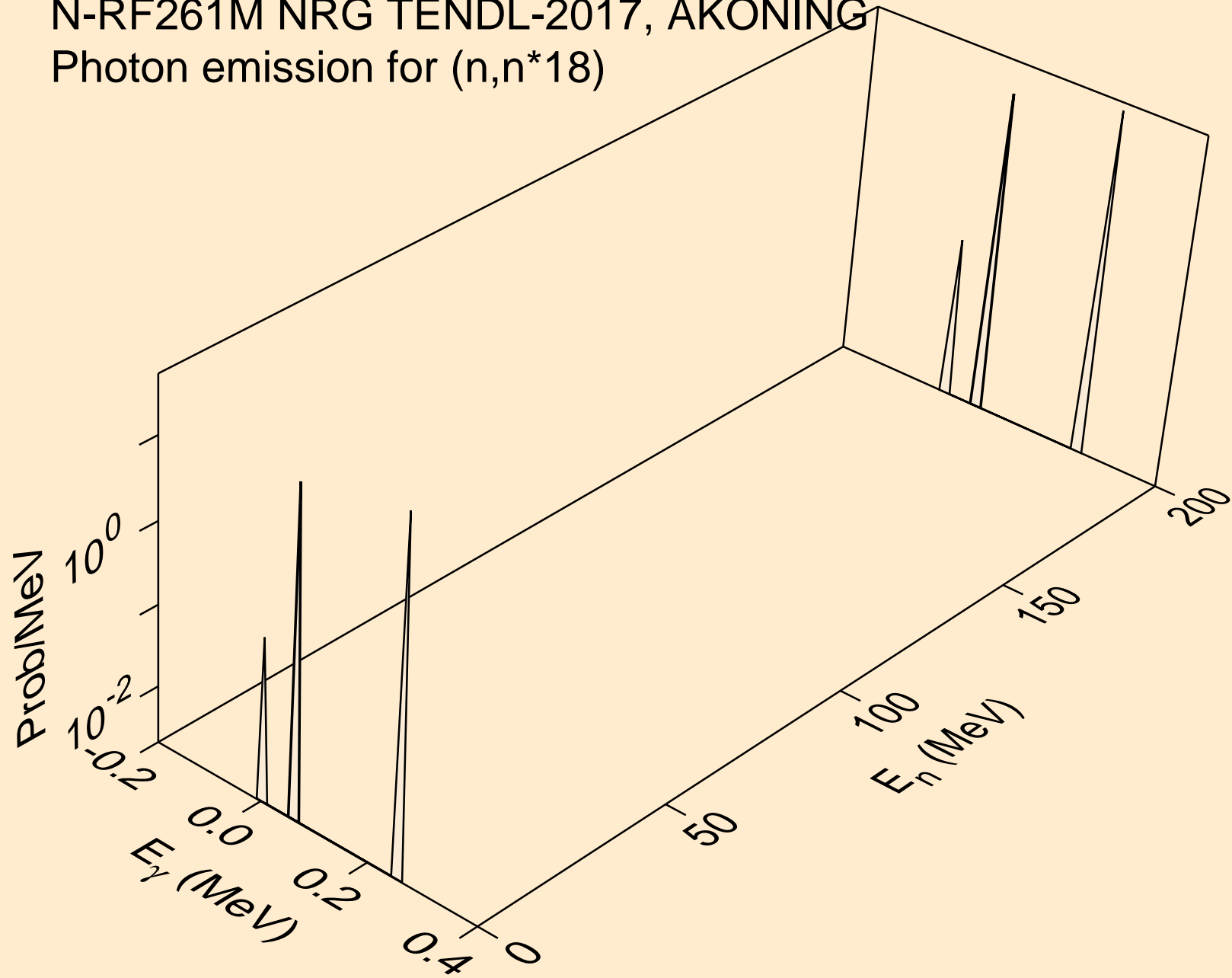N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*15)

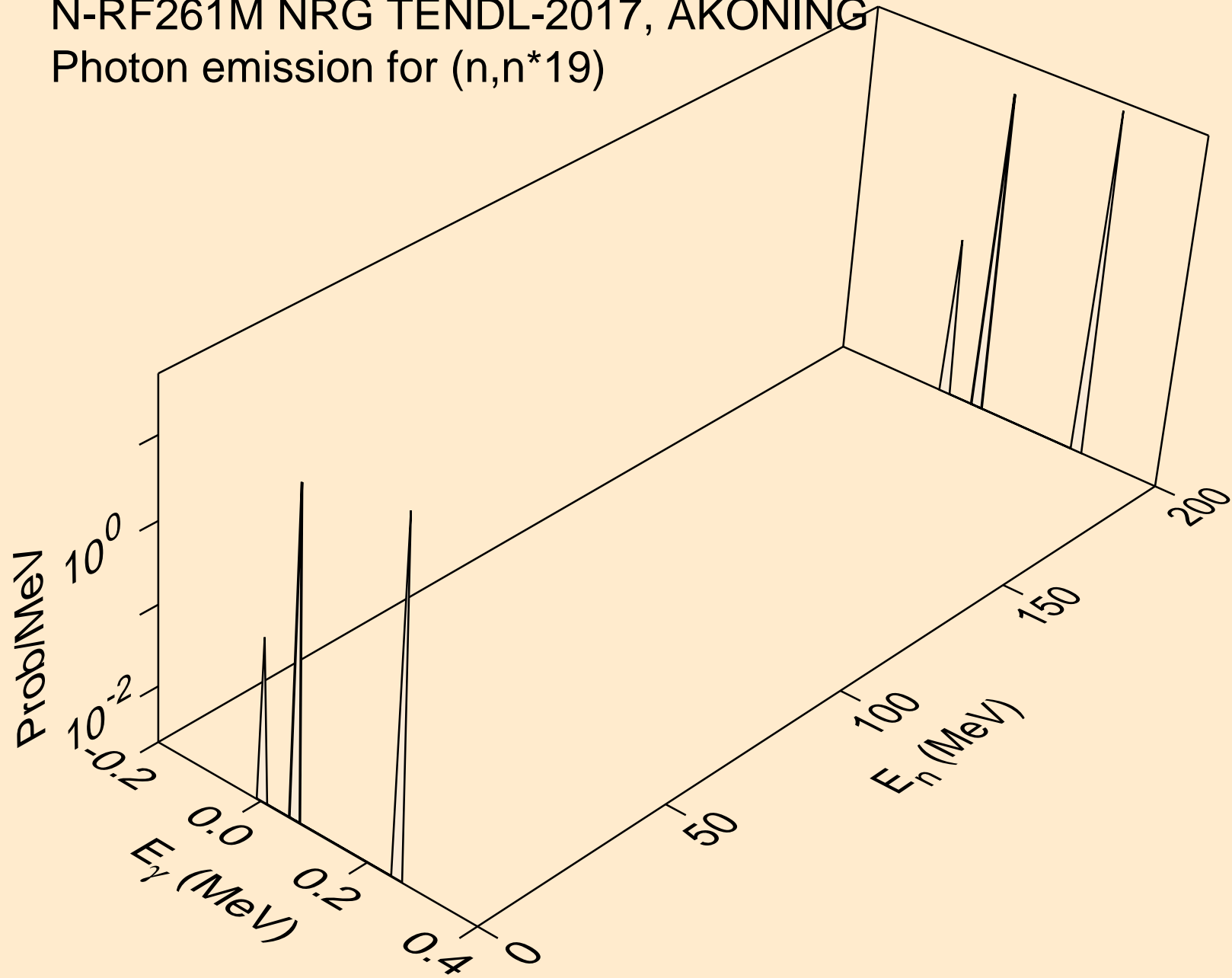N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*16)

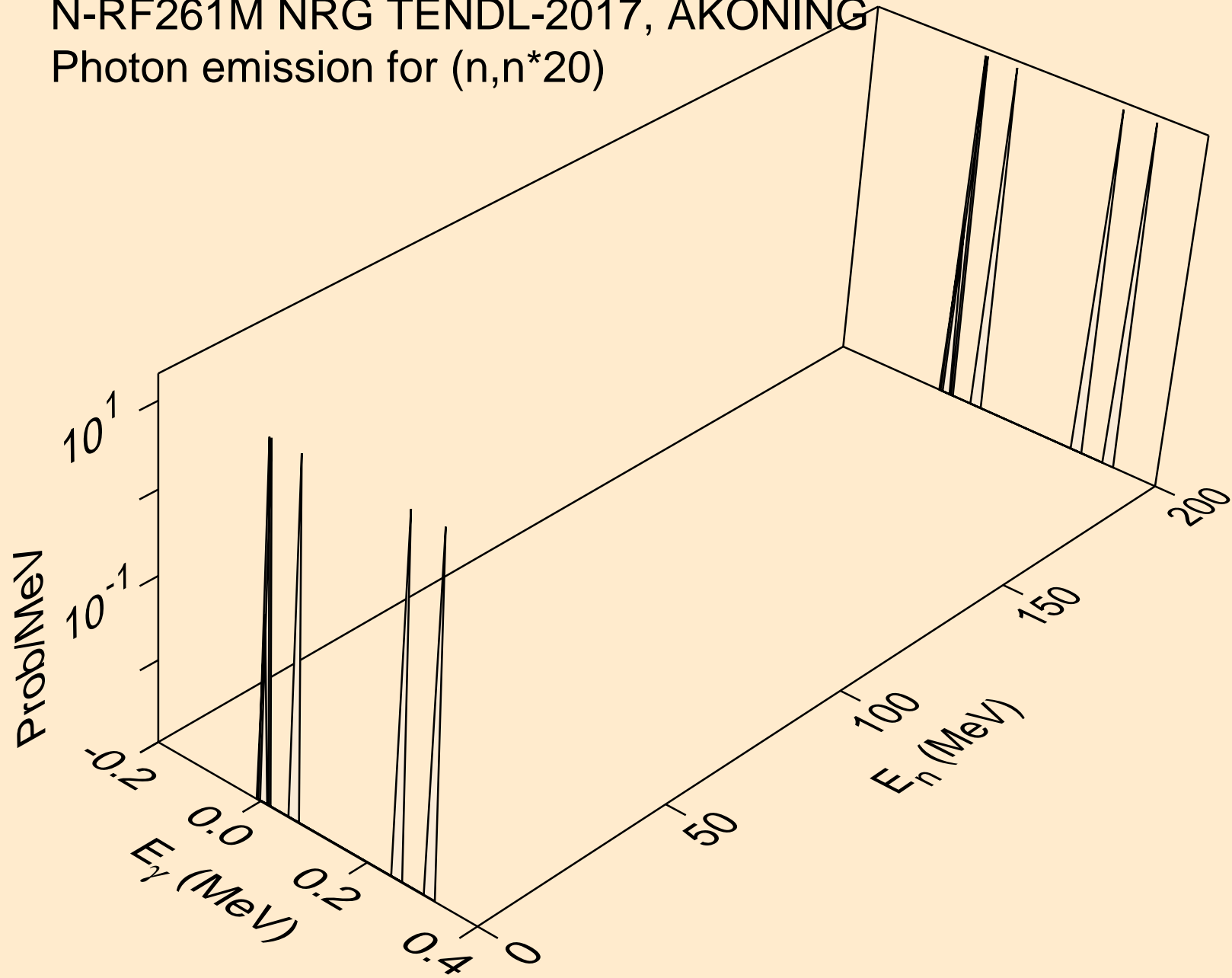N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*17)

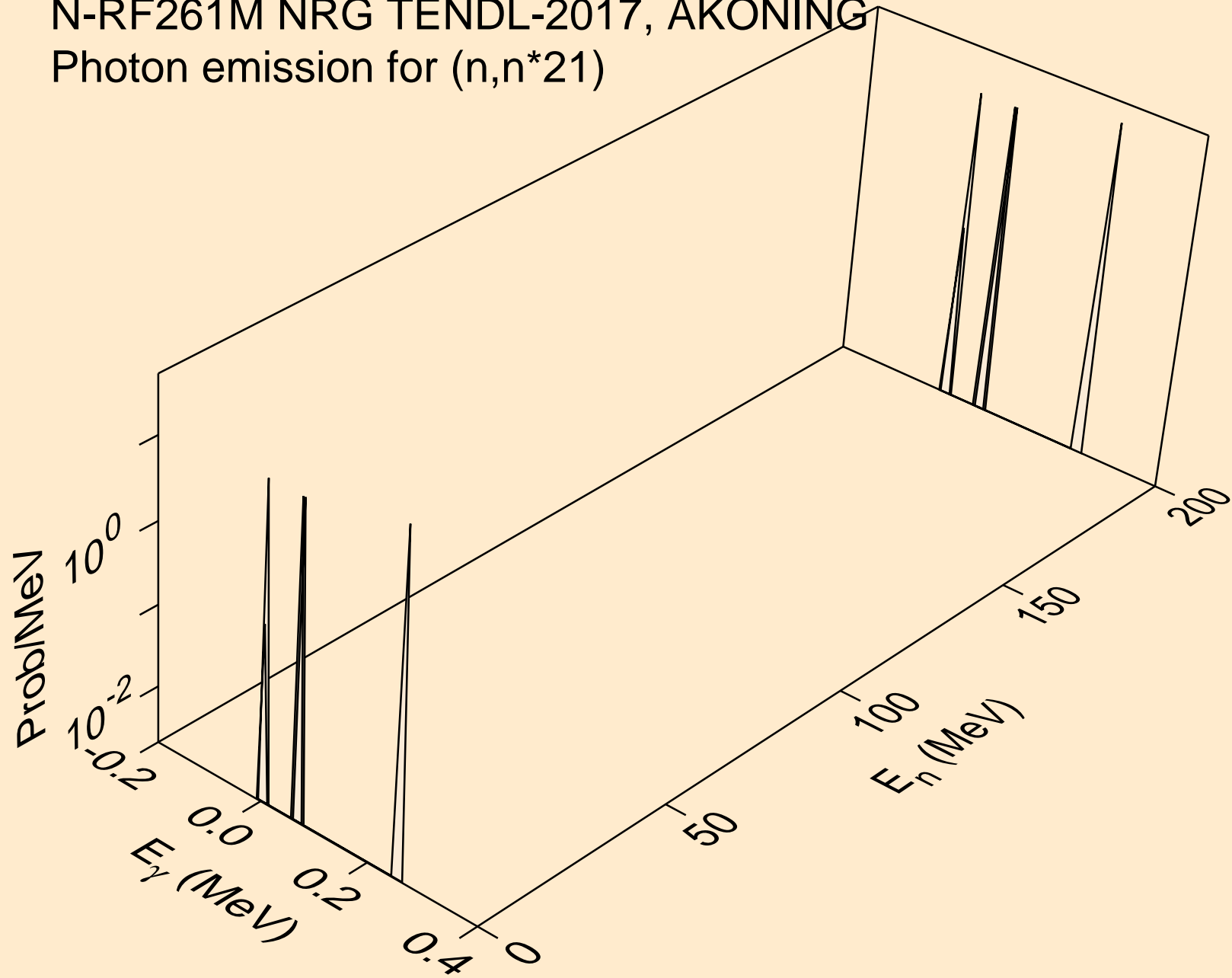N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*18)

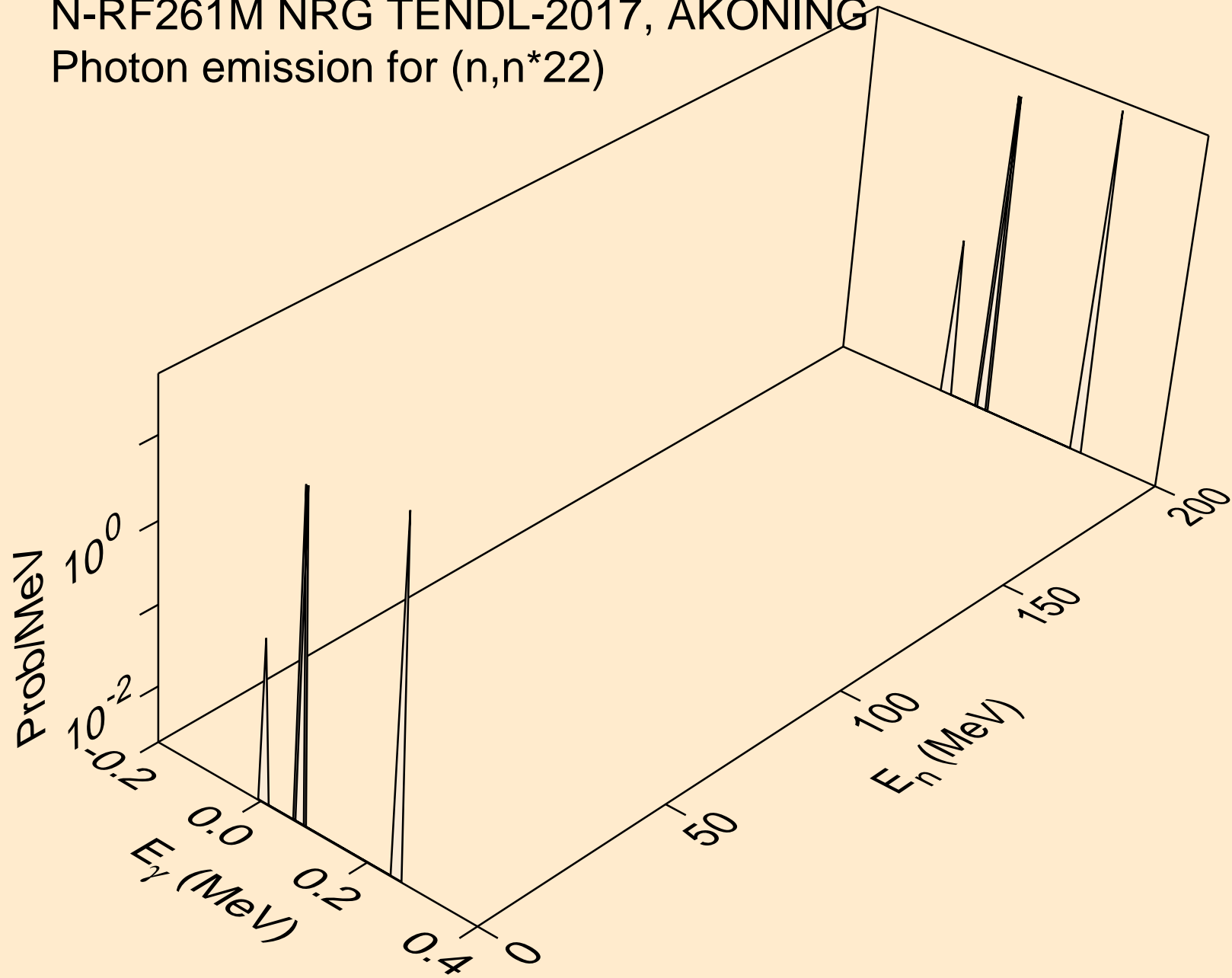N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*19)

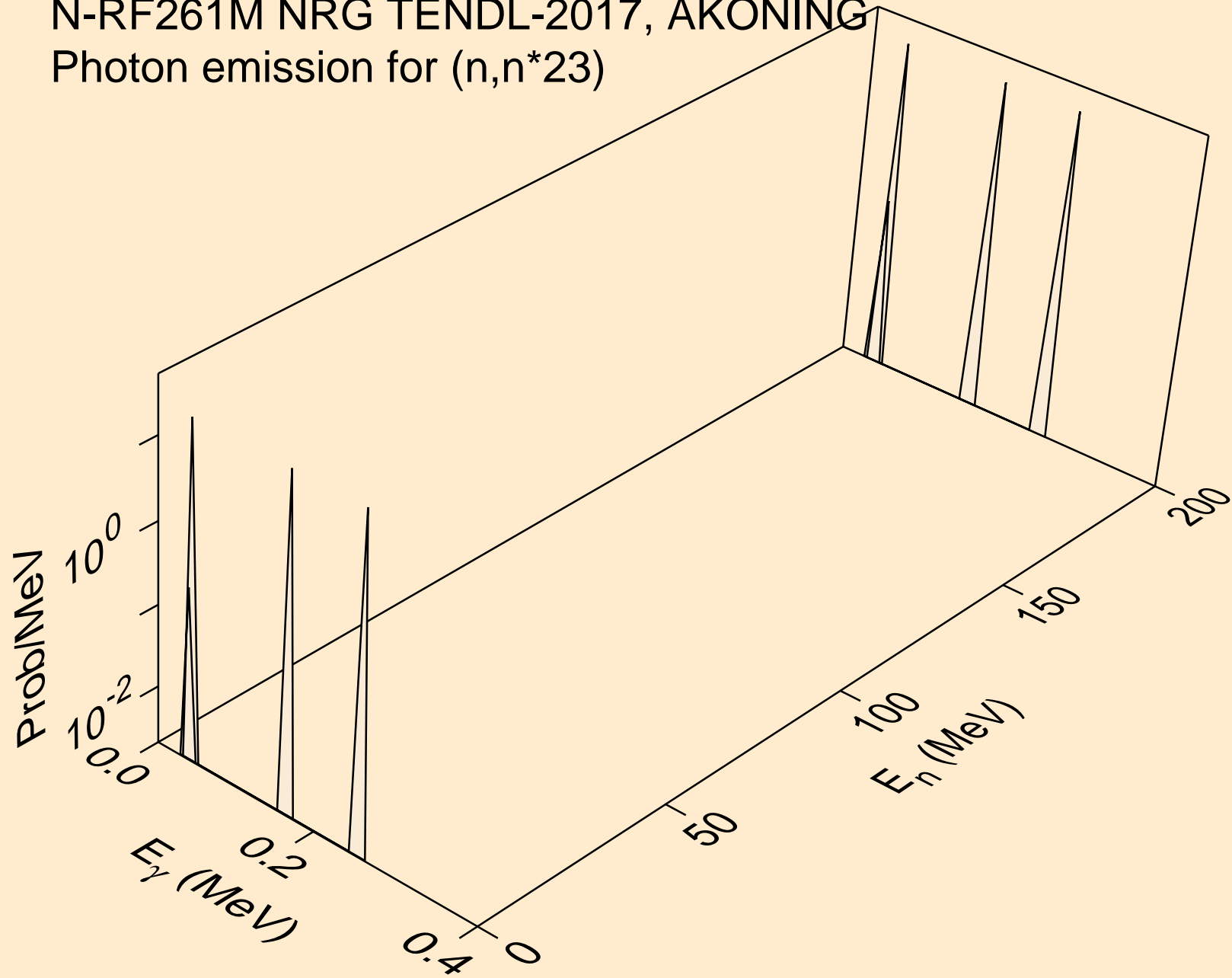N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*20)

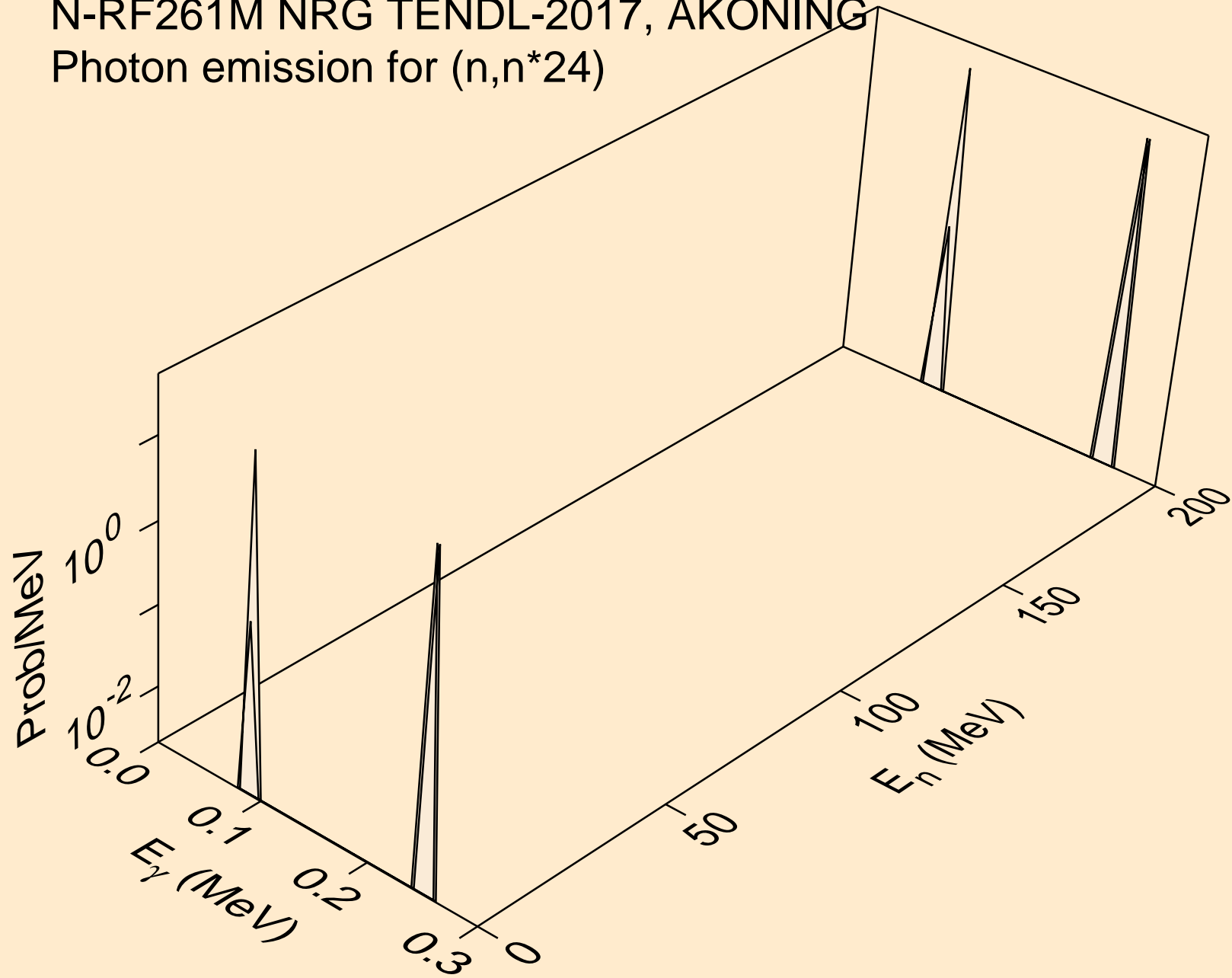N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*21)

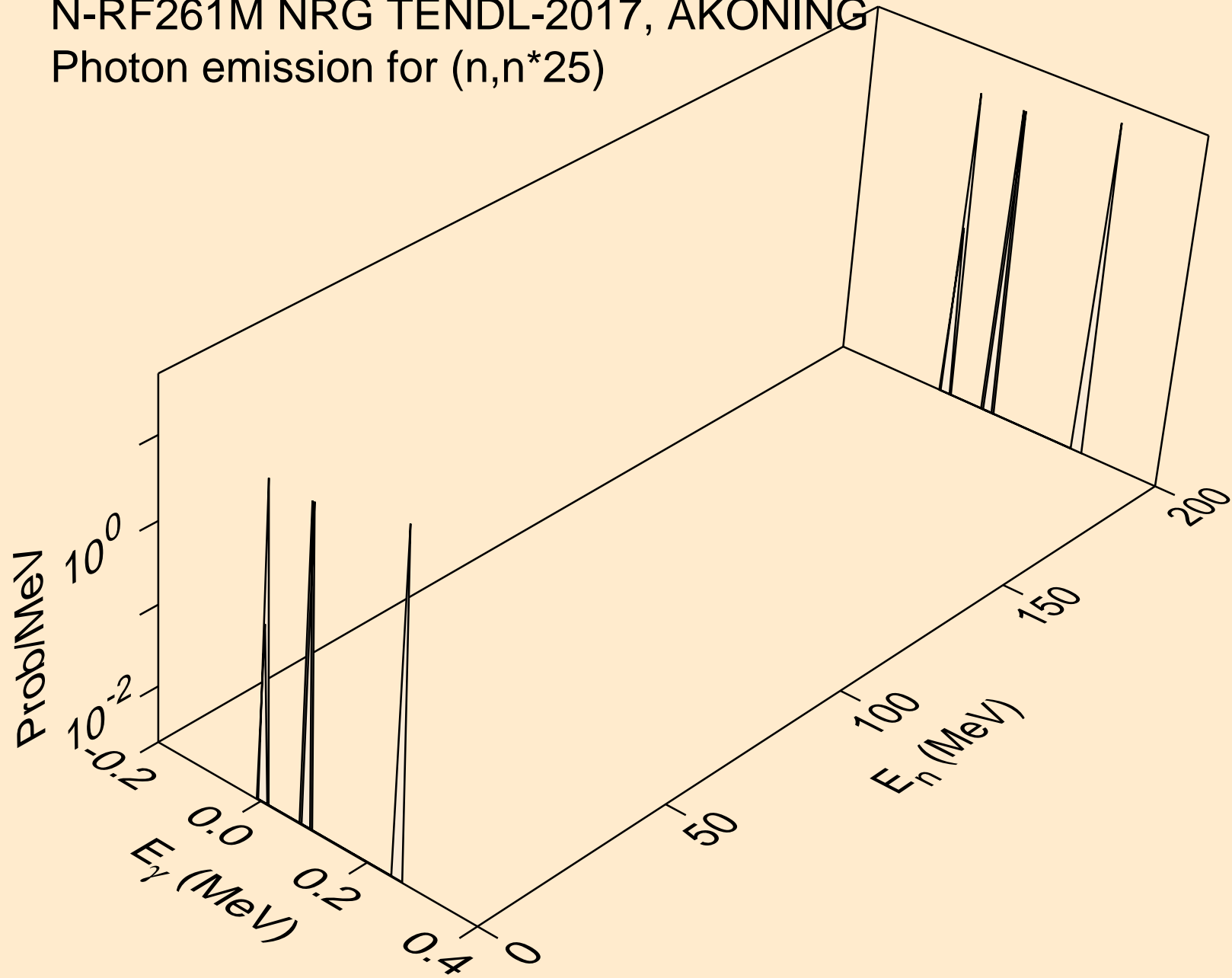N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*22)

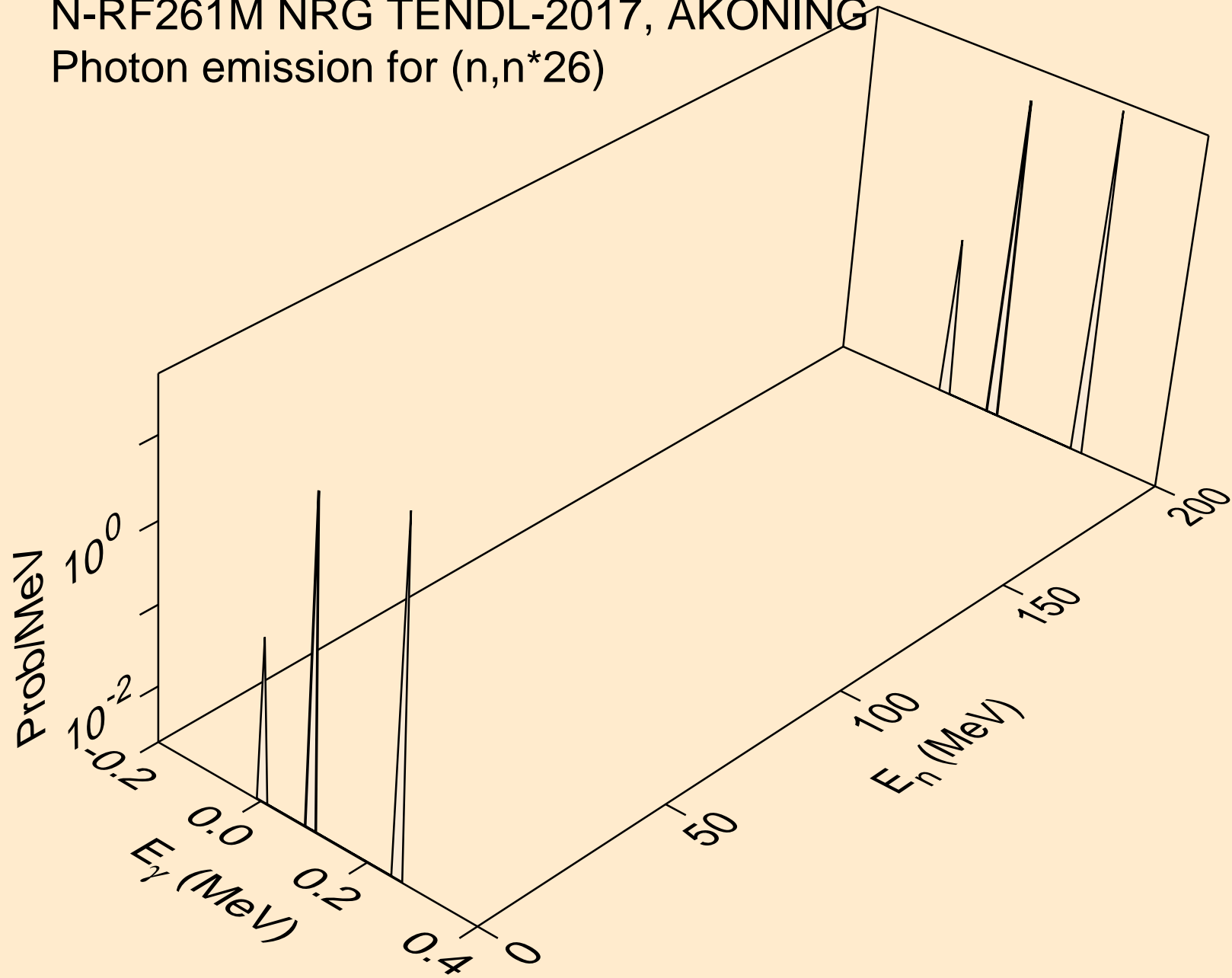N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*23)

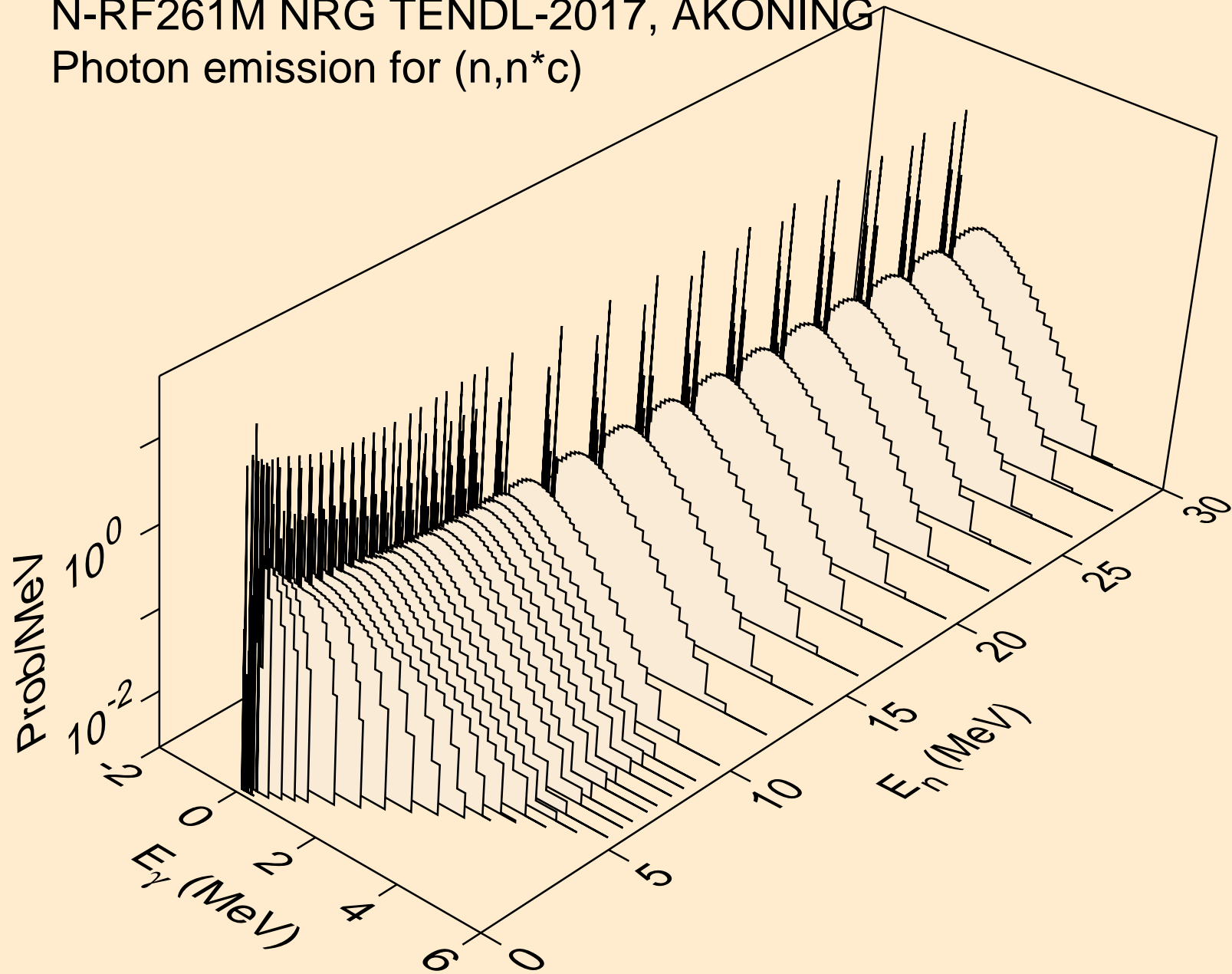N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*24)

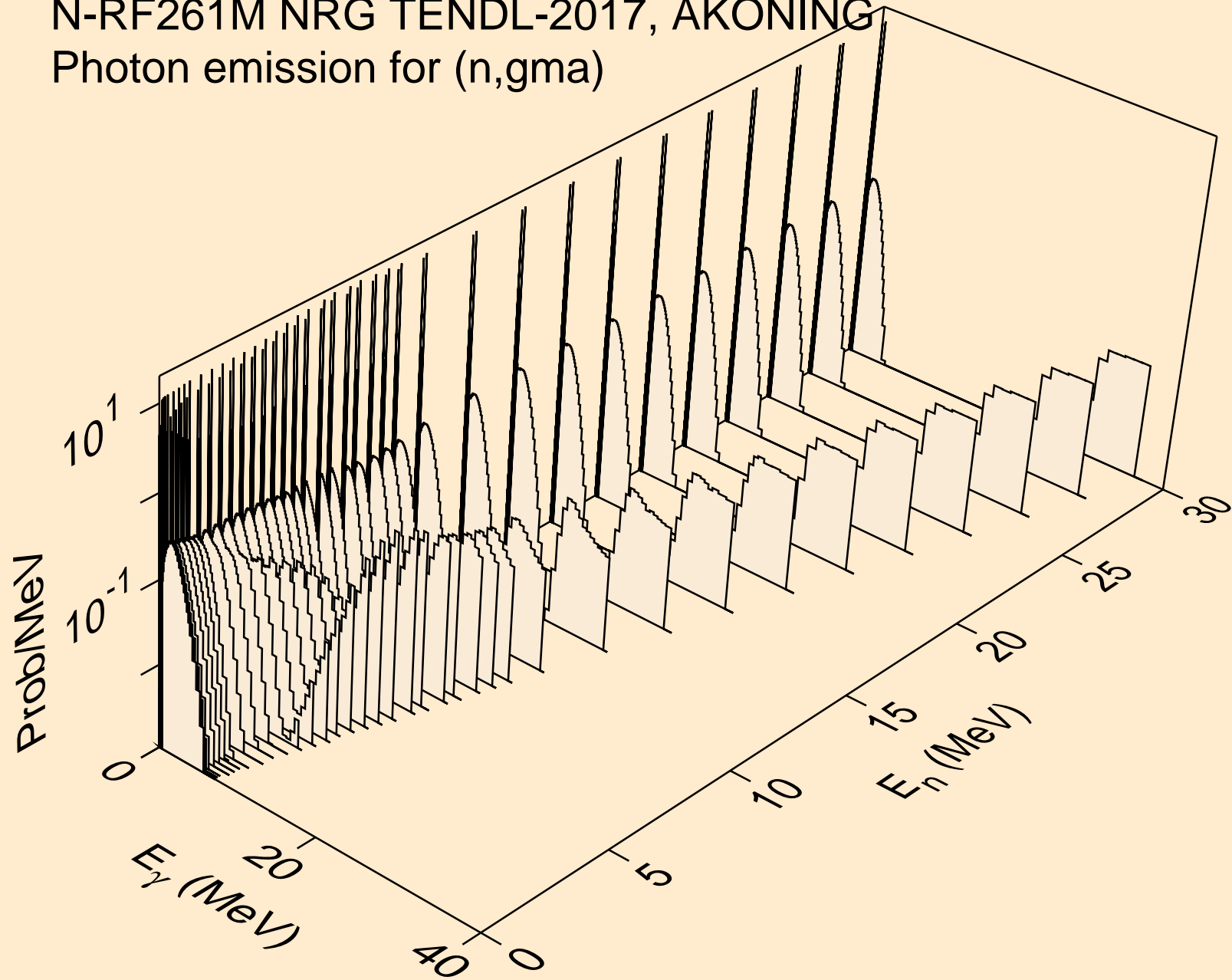N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*25)

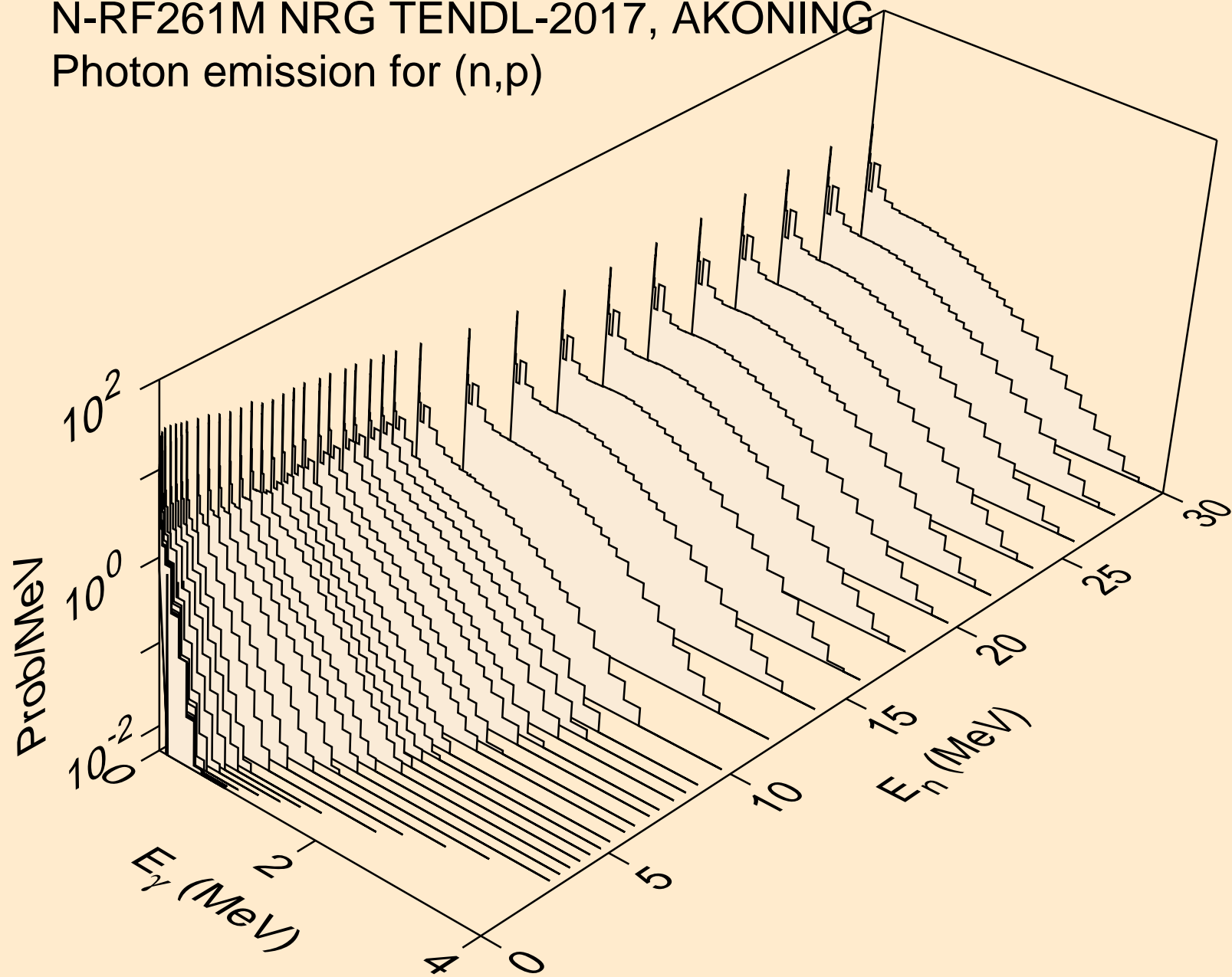N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*26)

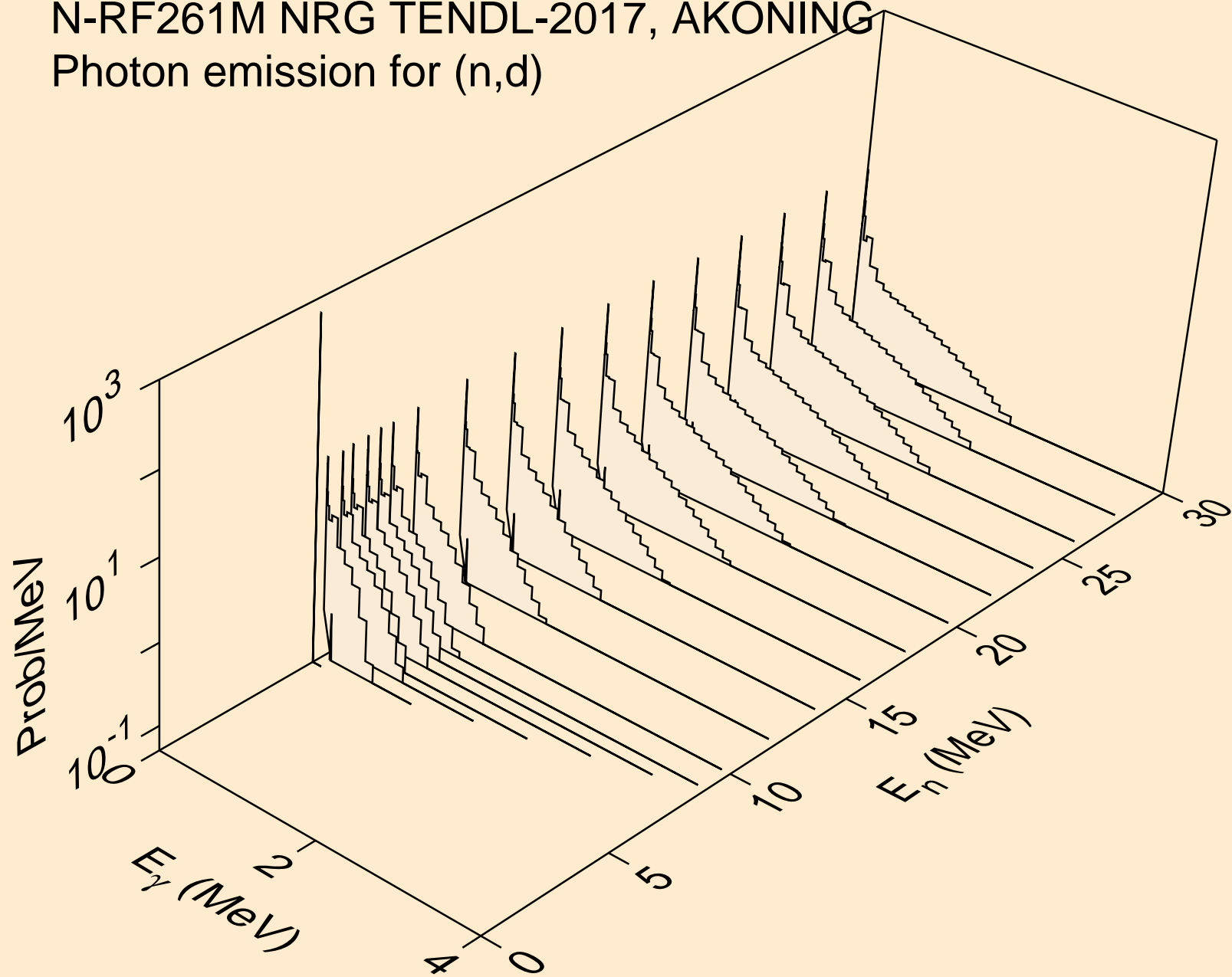N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,n*c)

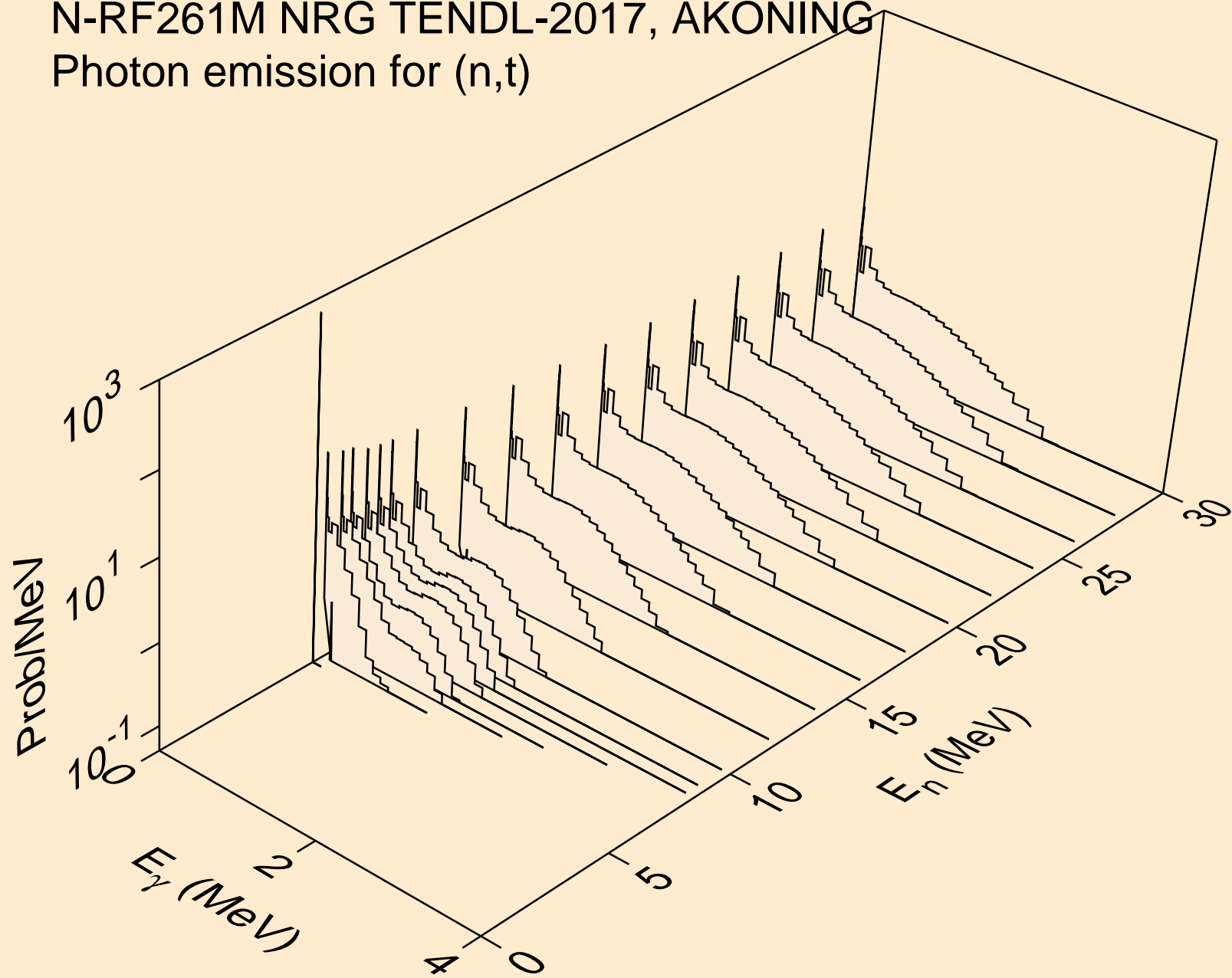N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,gma)

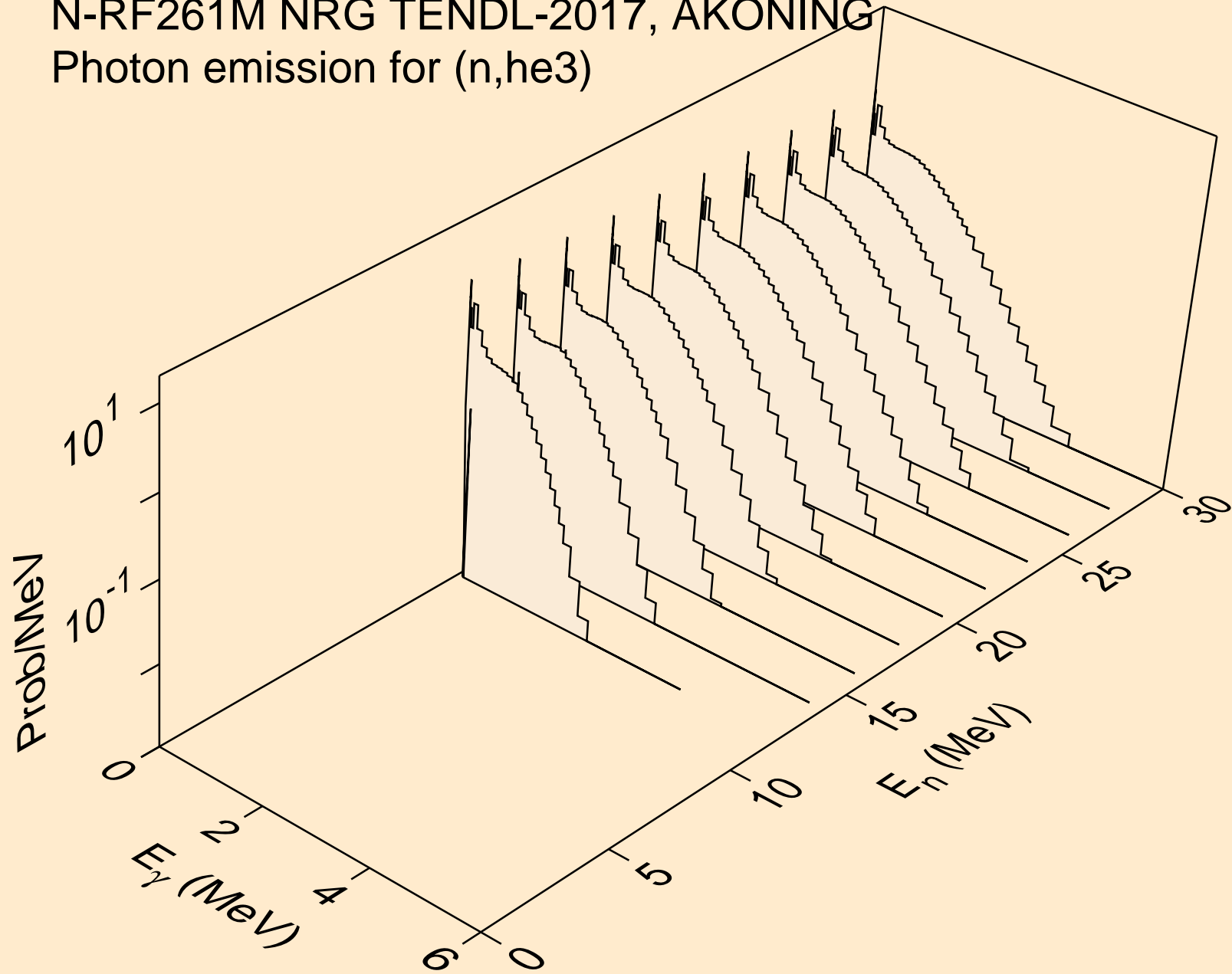N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,p)

N-RF261M NRG TENDL-2017, AKONING
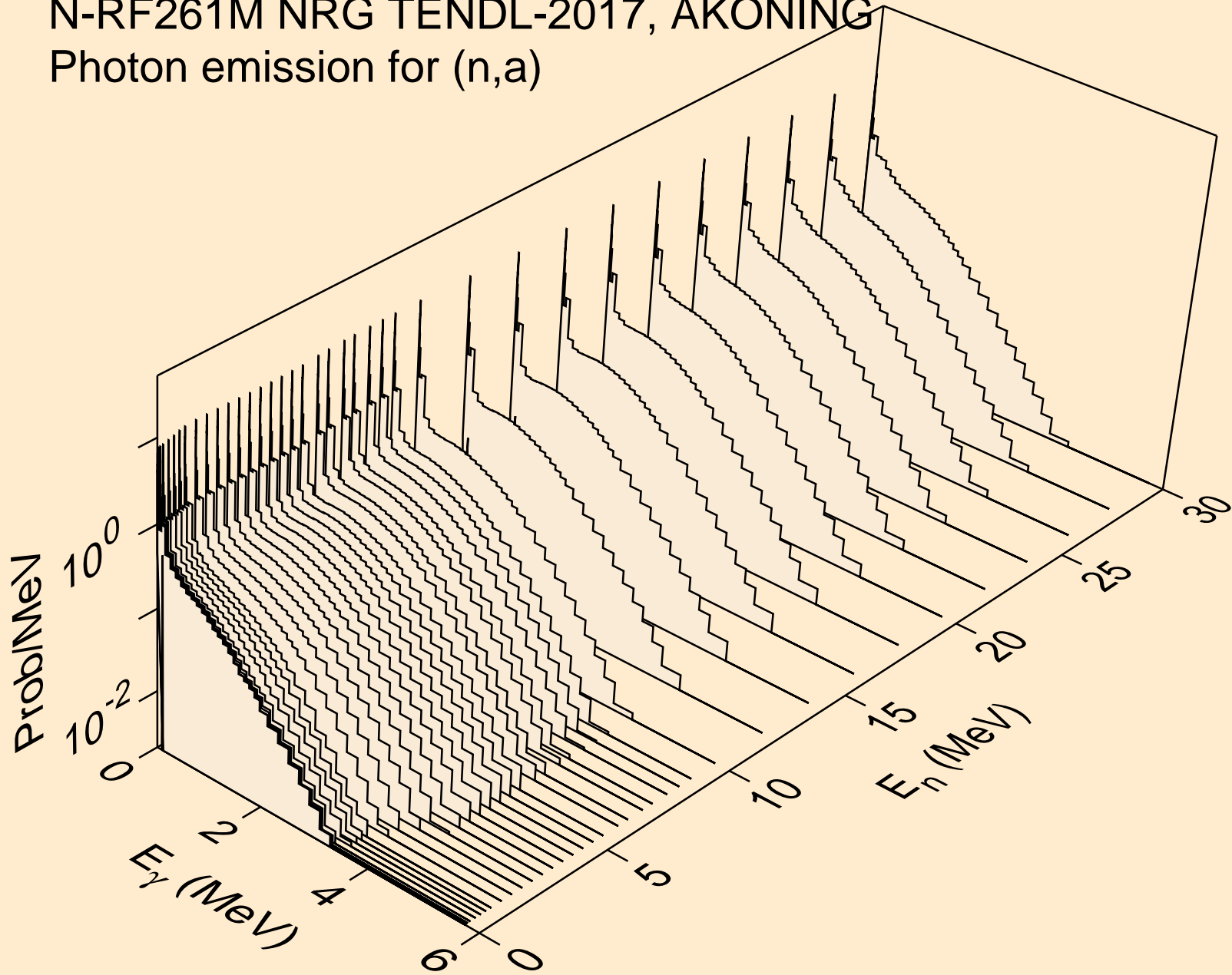Photon emission for (n,d)

N-RF261M NRG TENDL-2017, AKONING
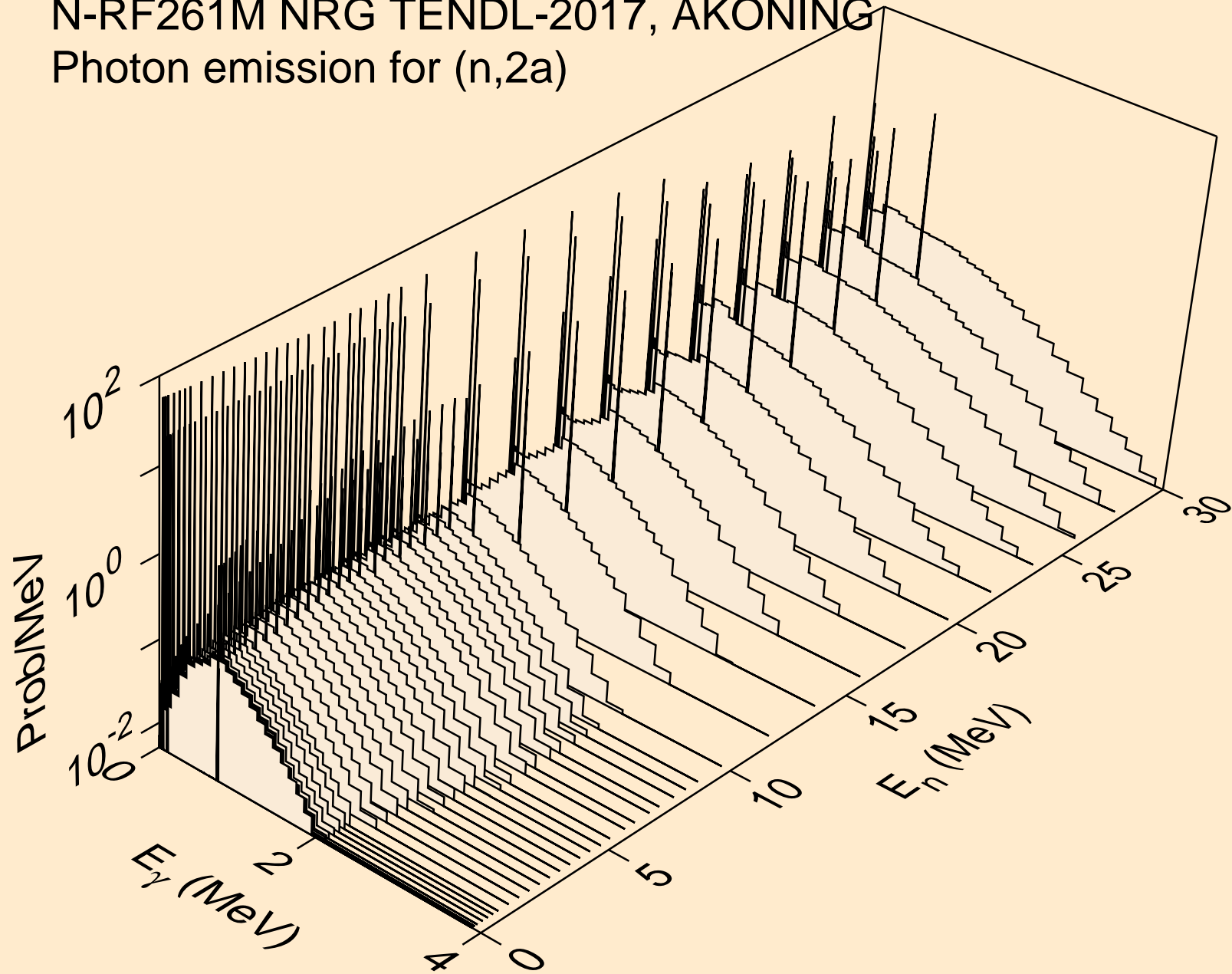Photon emission for (n,t)

N-RF261M NRG TENDL-2017, AKONING
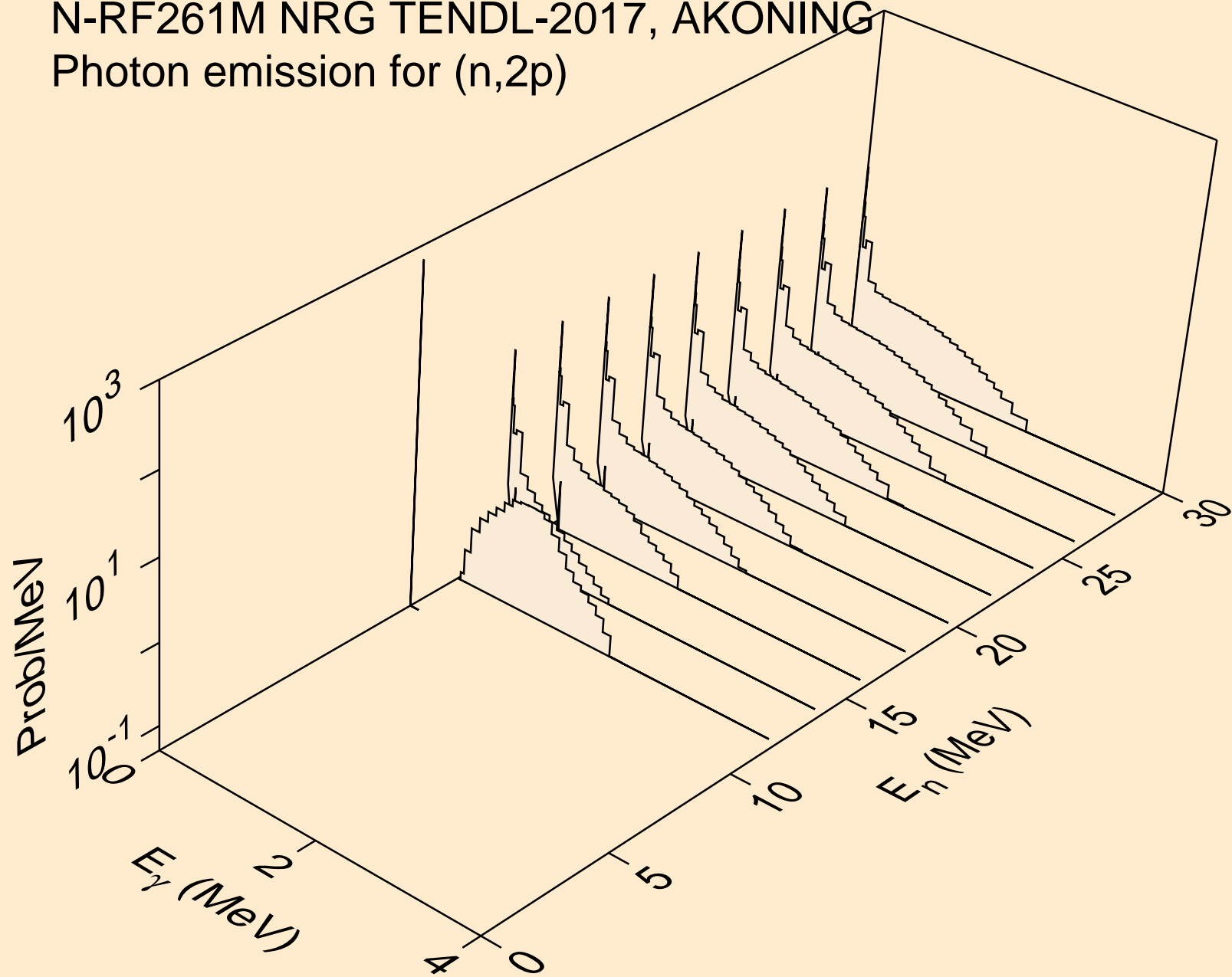Photon emission for (n,he3)

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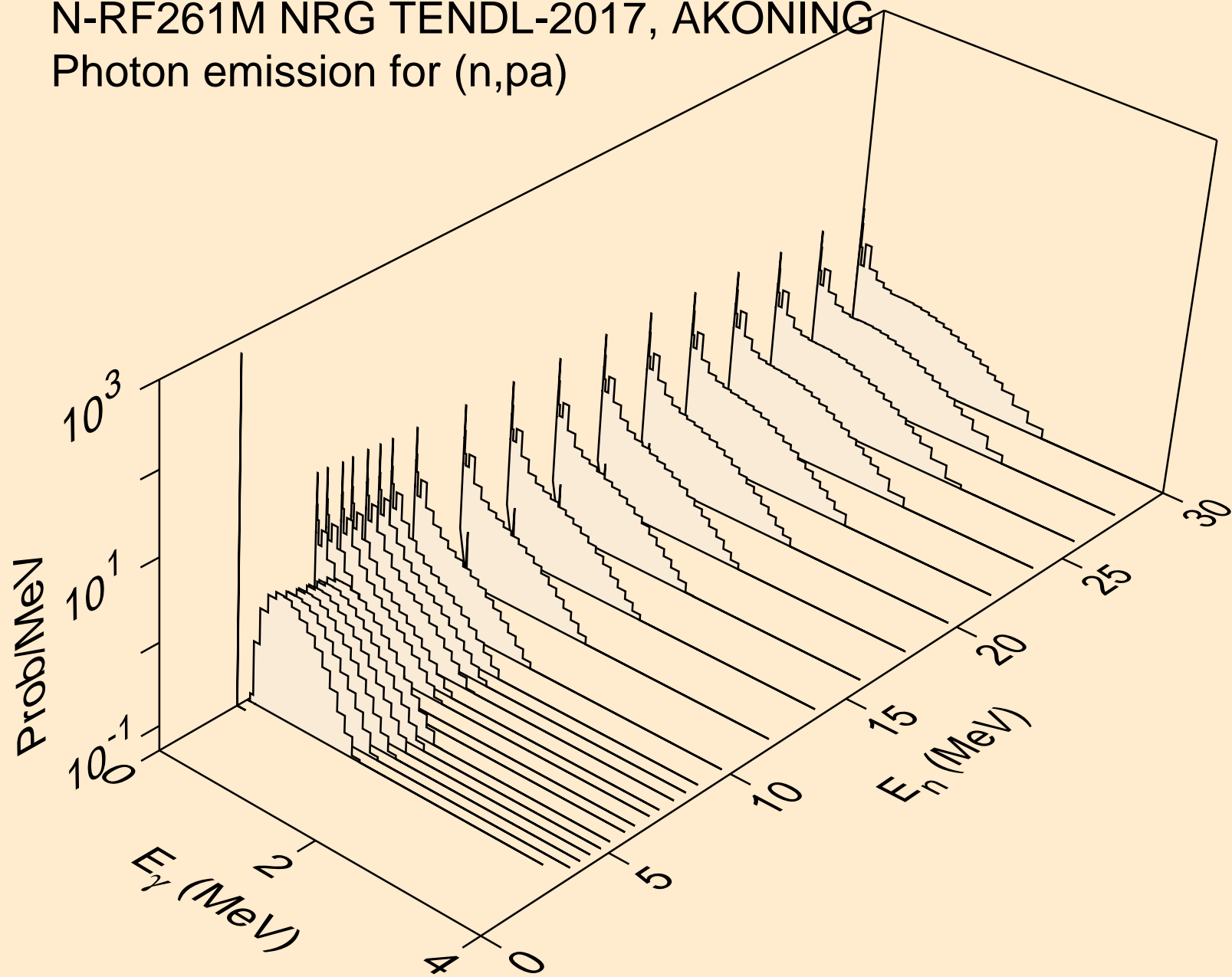Photon emission for (n,a)

N-RF261M NRG TENDL-2017, AKONING
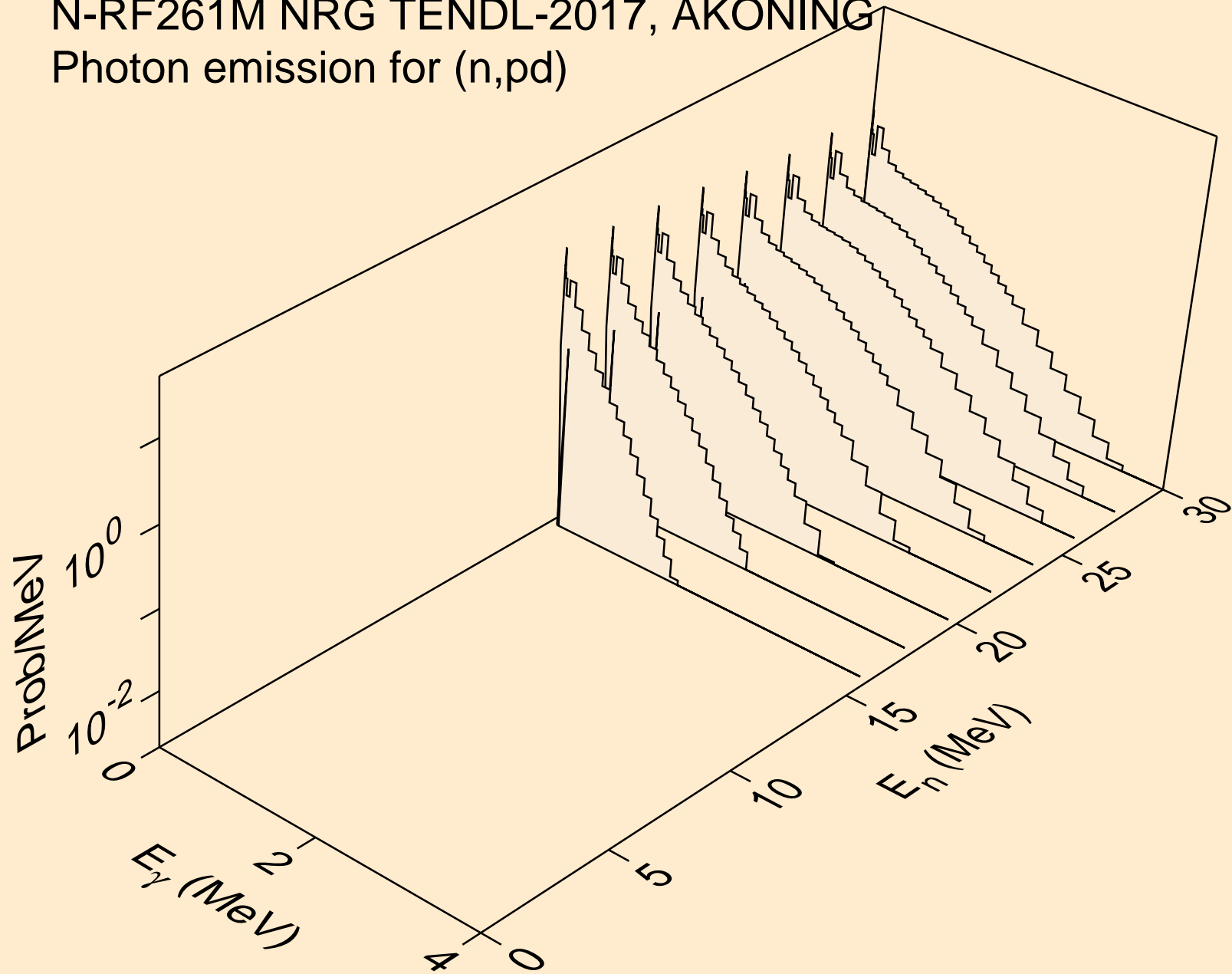Photon emission for (n,2a)

N-RF261M NRG TENDL-2017, AKONING
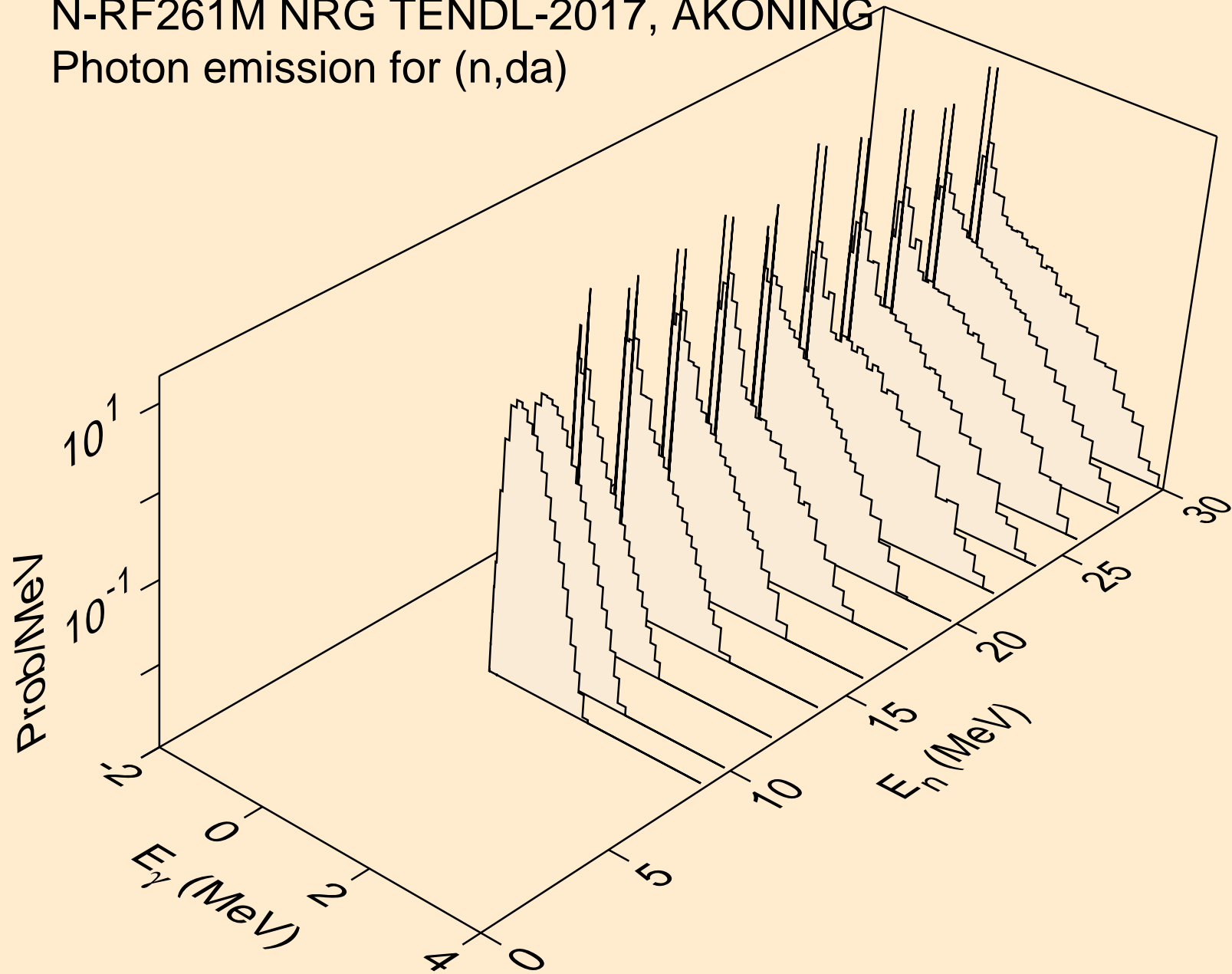Photon emission for (n,2p)

N-RF261M NRG TENDL-2017, AKONING
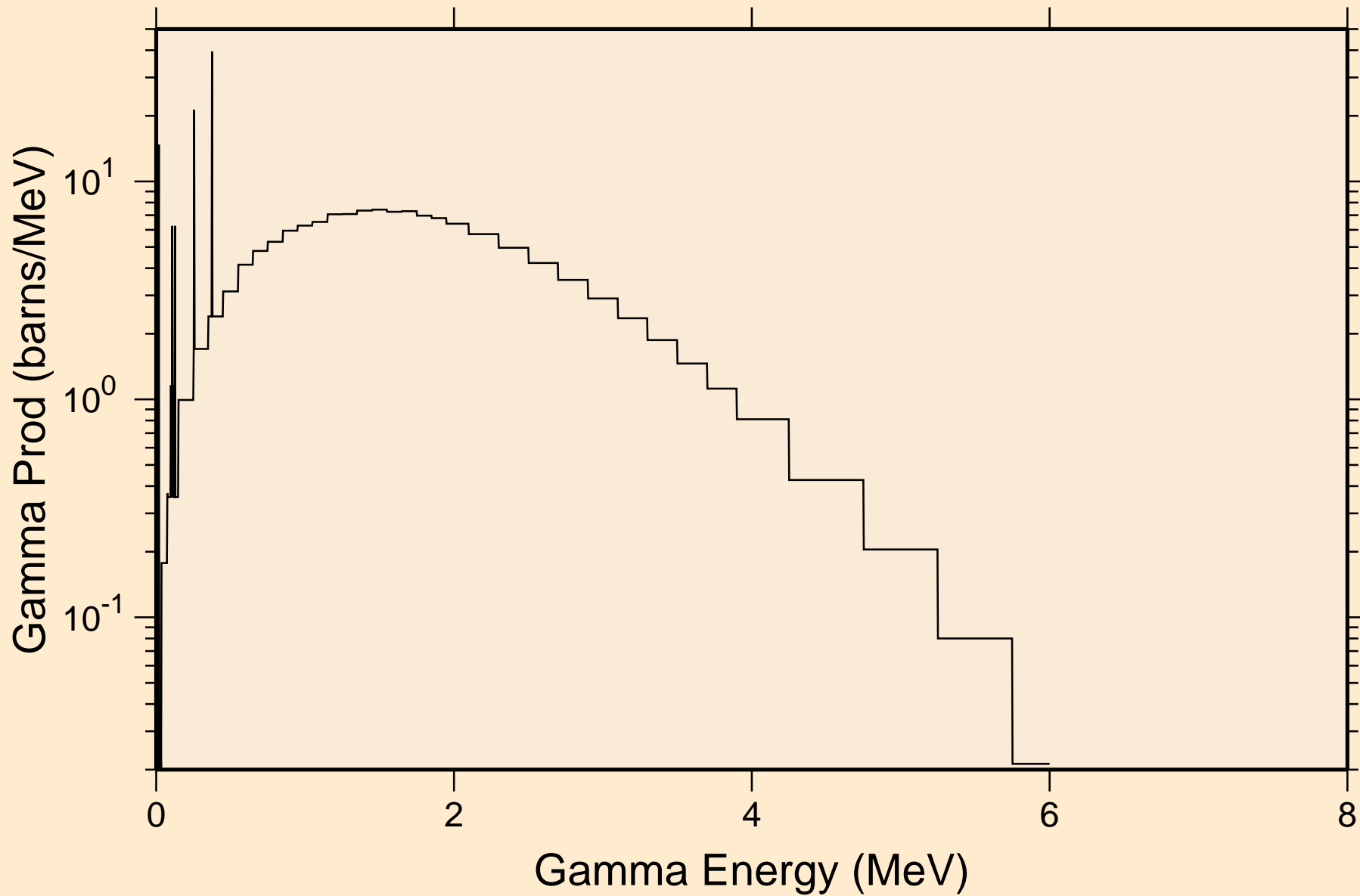Photon emission for (n,pa)

N-RF261M NRG TENDL-2017, AKONING
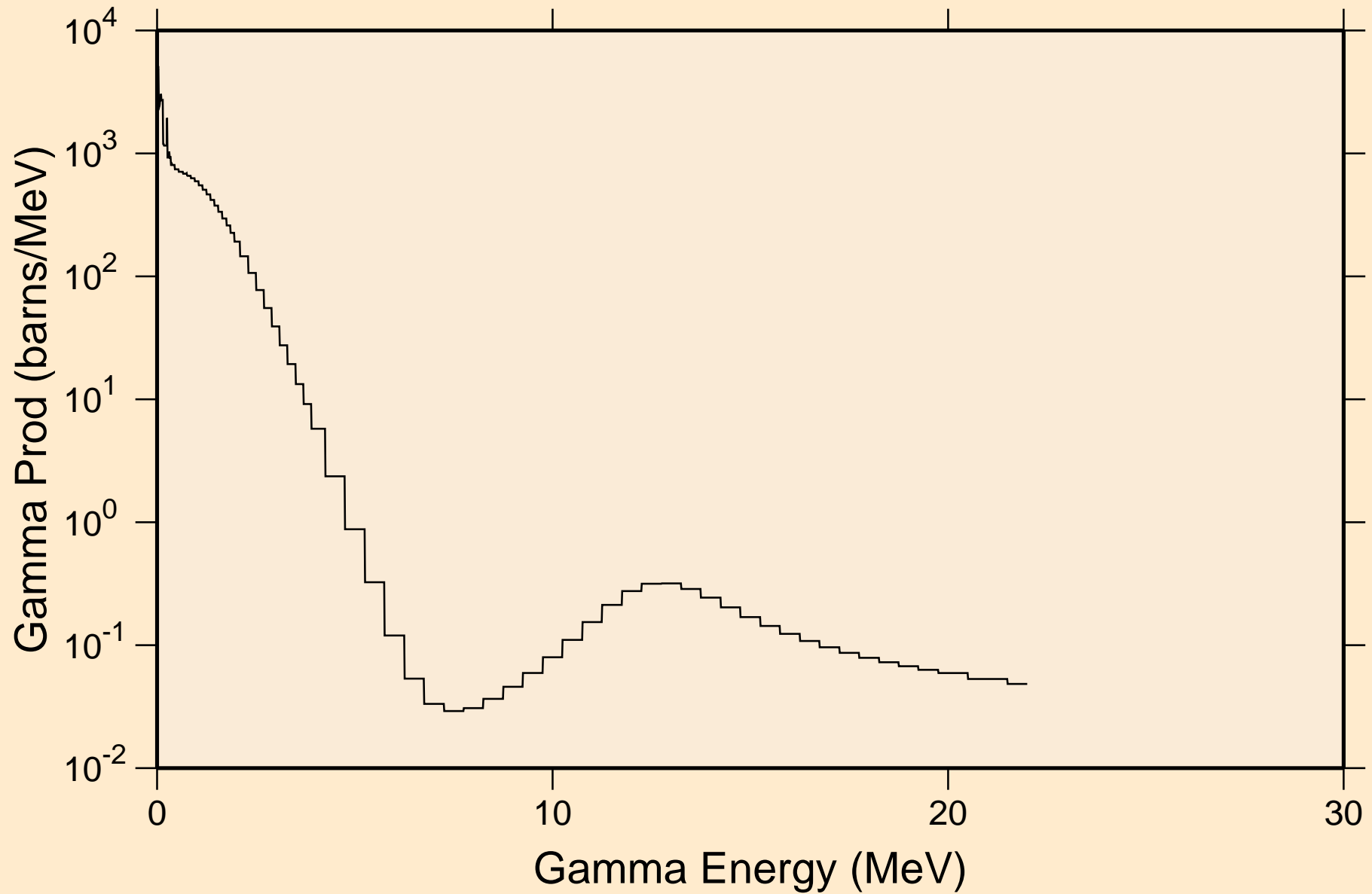Photon emission for (n,pd)

N-RF261M NRG TENDL-2017, AKONING
Photon emission for (n,da)

N-RF261M NRG TENDL-2017, AKONING
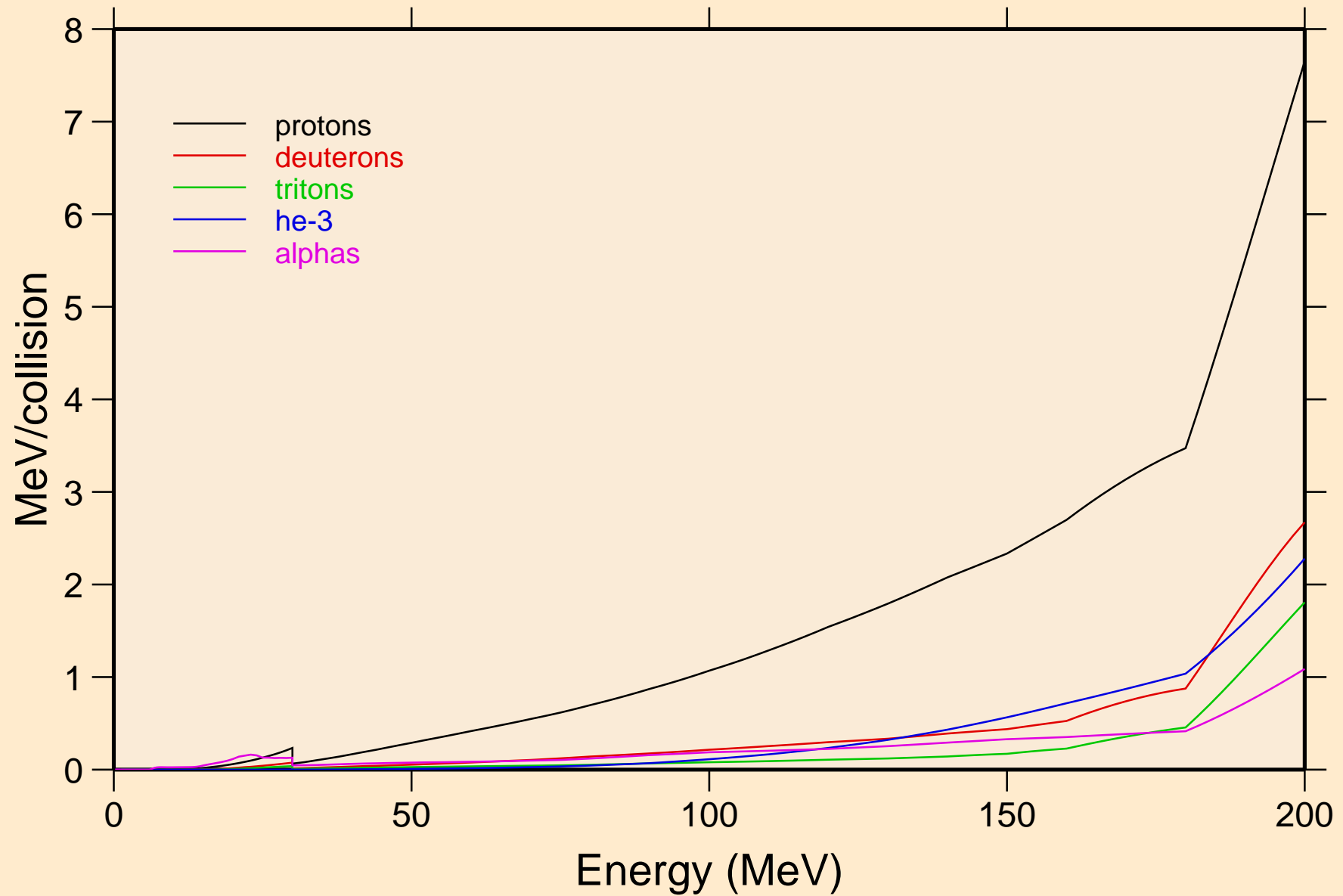thermal capture photon spectrum

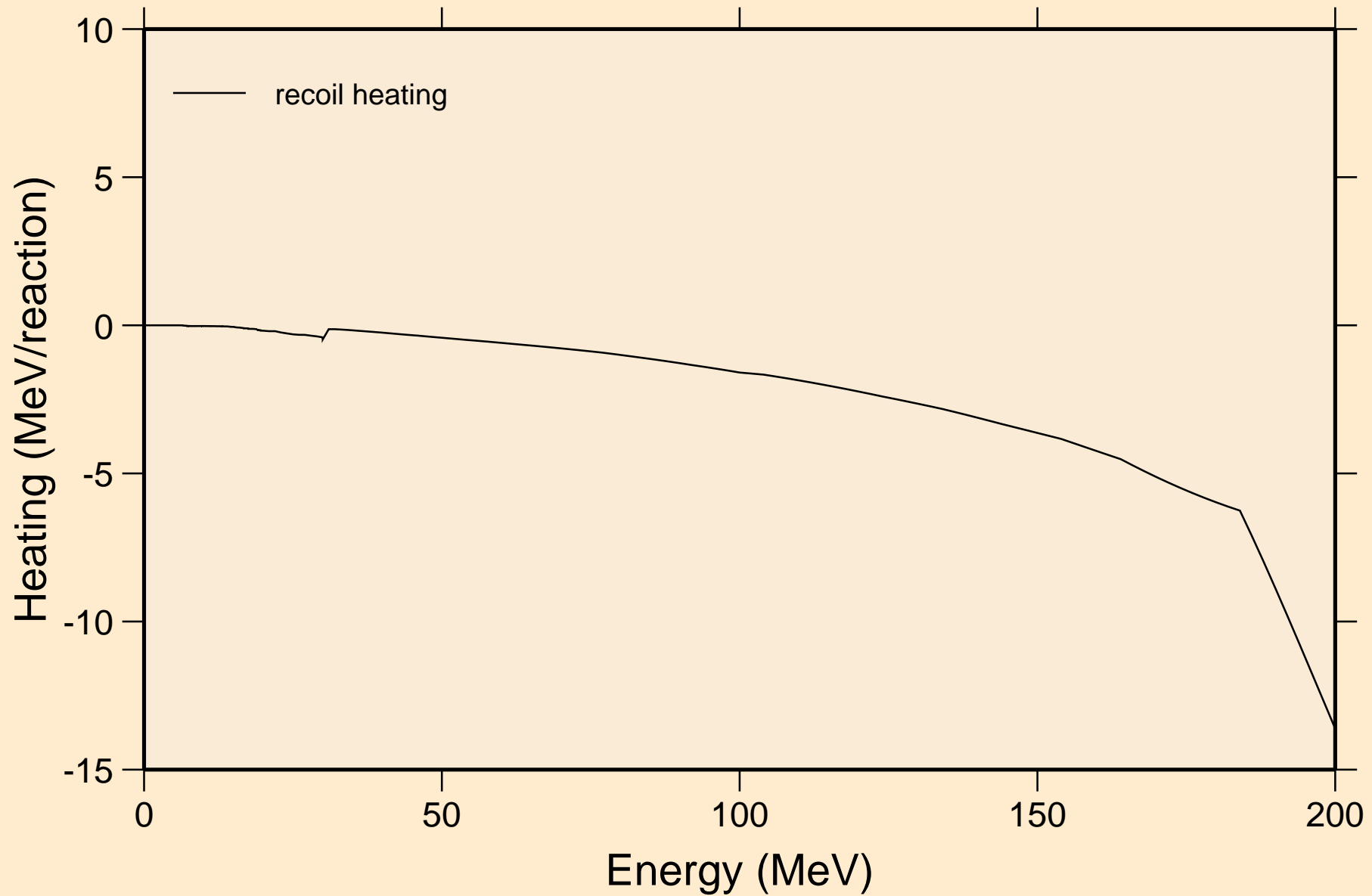N-RF261M NRG TENDL-2017, AKONING
14 MeV photon spectrum

N-RF261M NRG TENDL-2017, AKONING
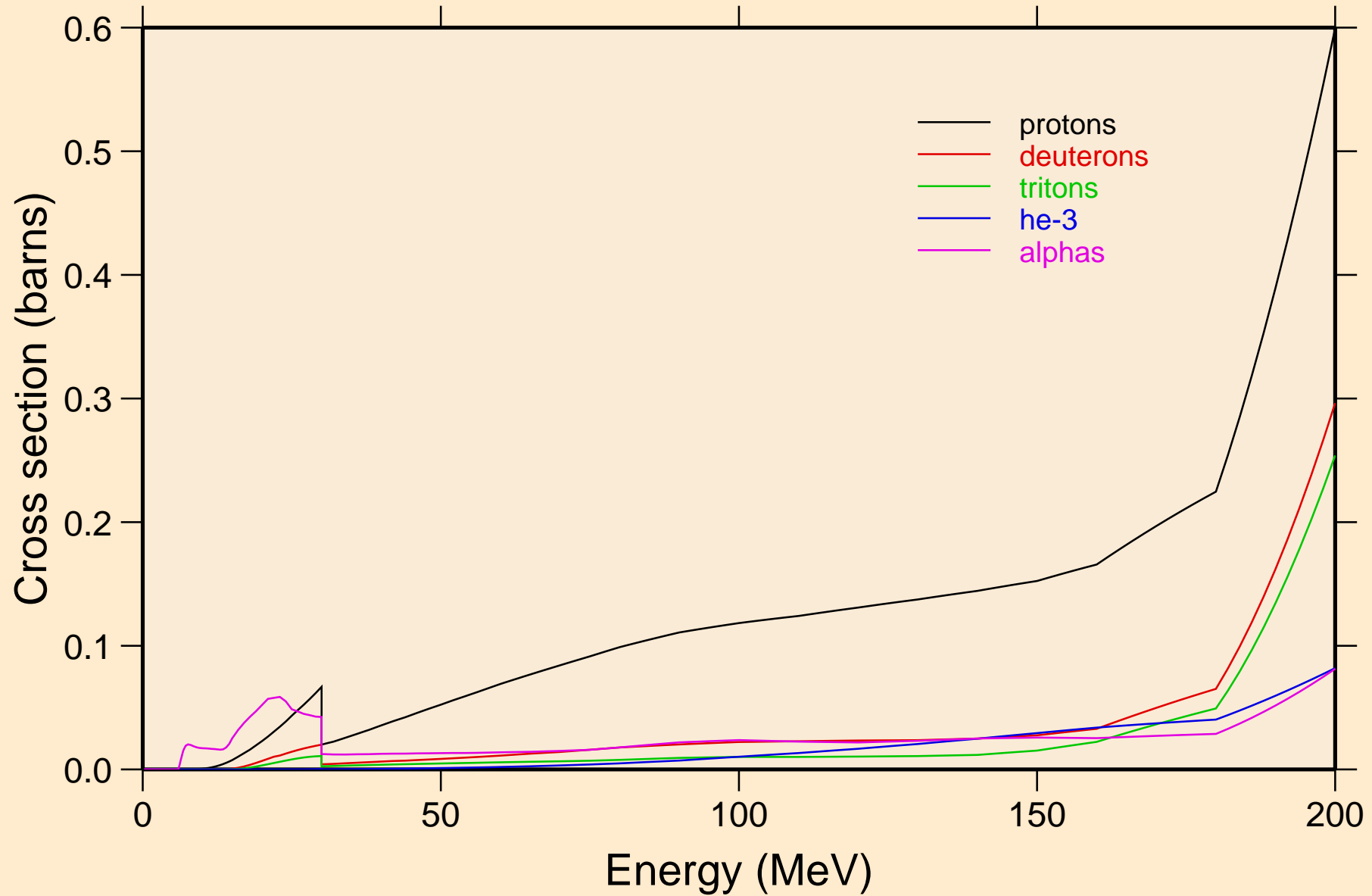Particle heating contributions

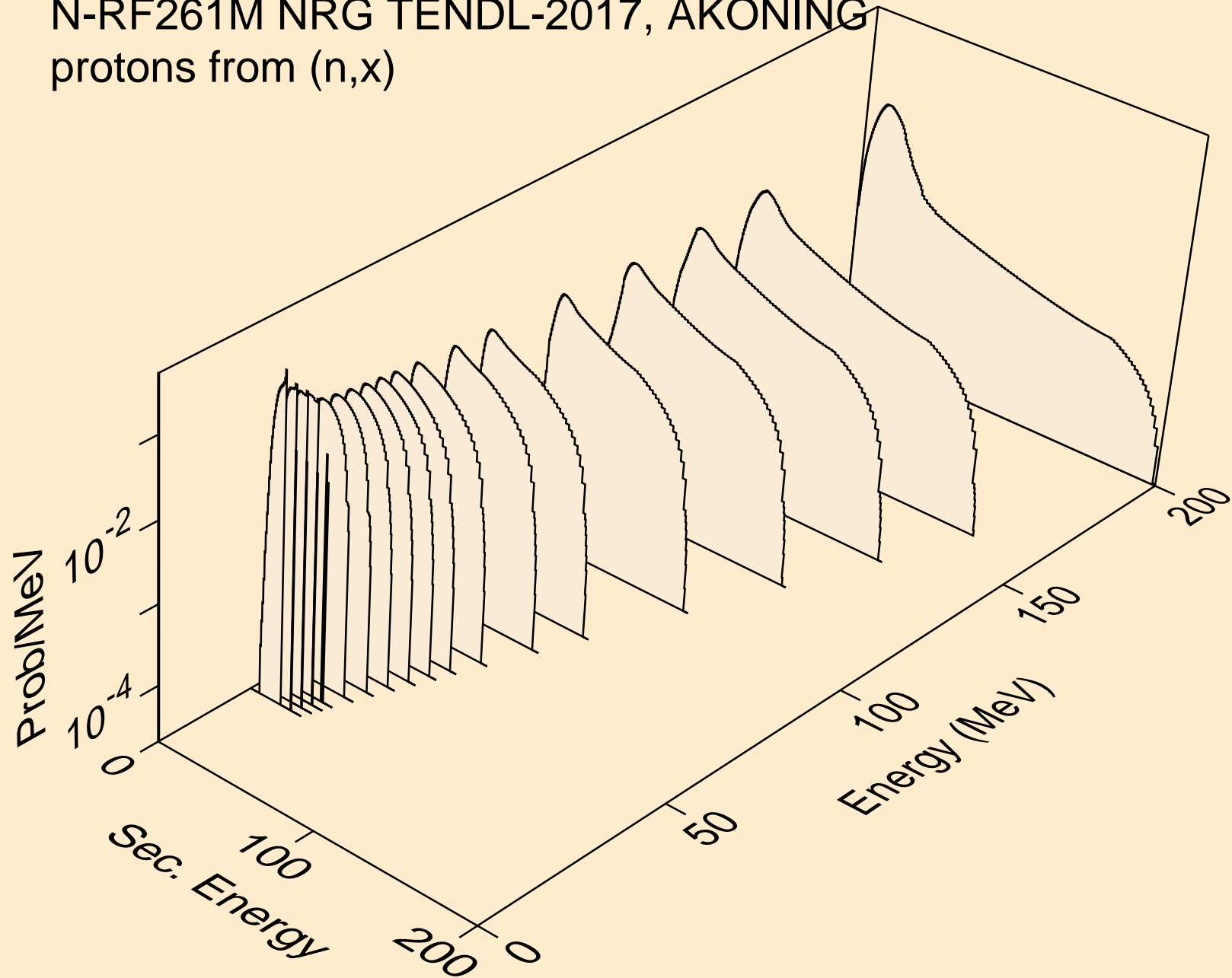N-RF261M NRG TENDL-2017, AKONING
Recoil Heating

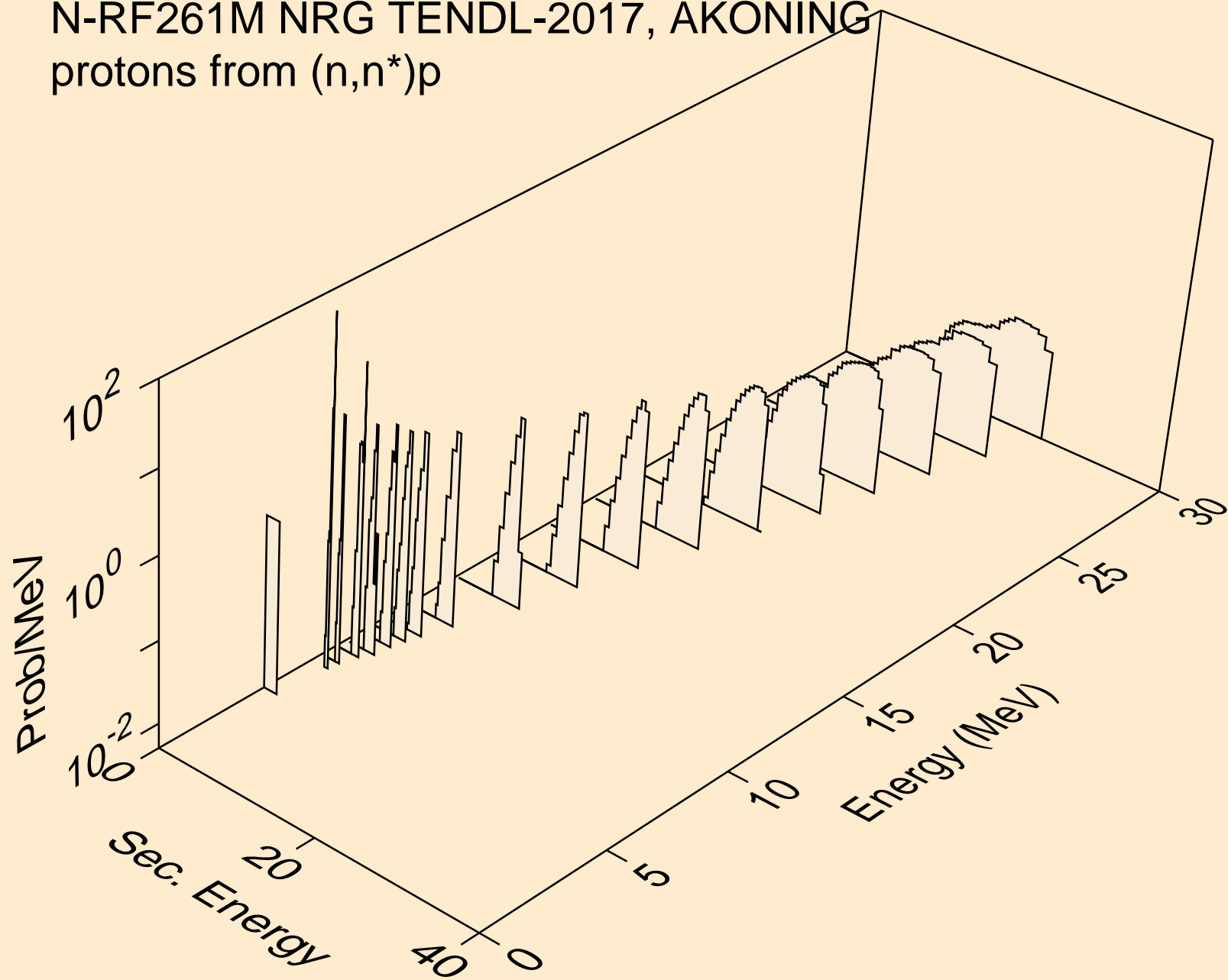N-RF261M NRG TENDL-2017, AKONING
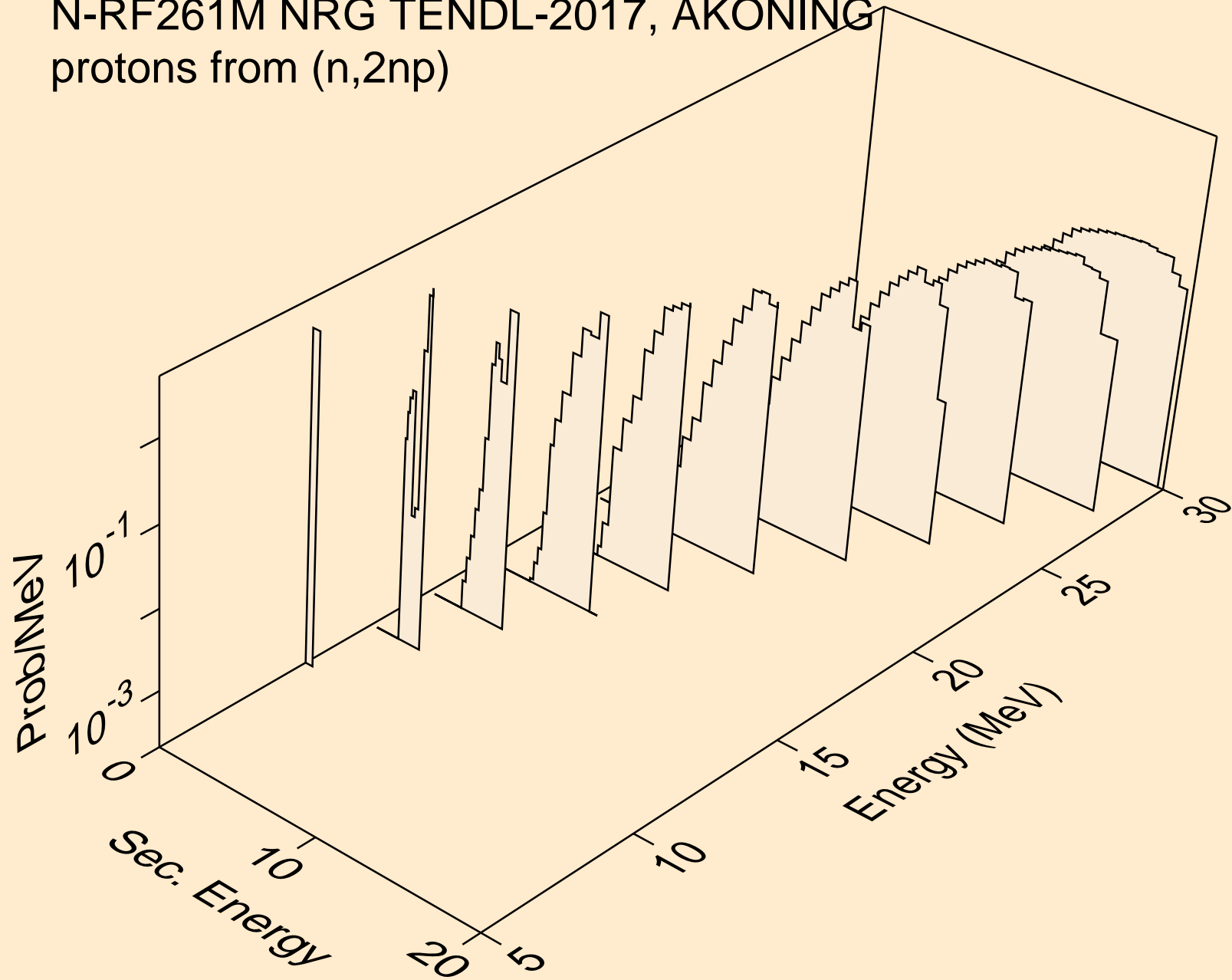Particle production cross sections

N-RF261M NRG TENDL-2017, AKONING
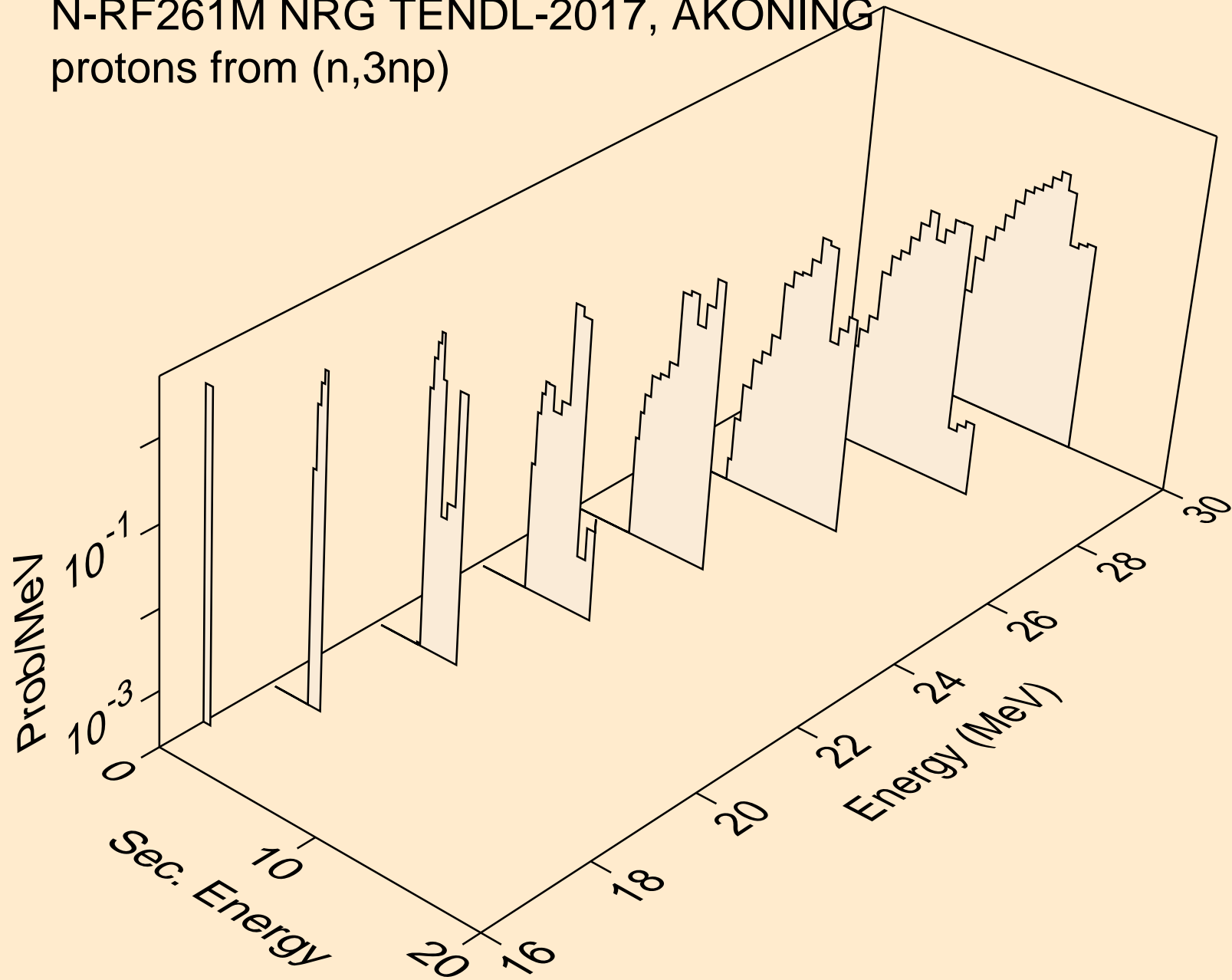protons from (n,x)

N-RF261M NRG TENDL-2017, AKONING
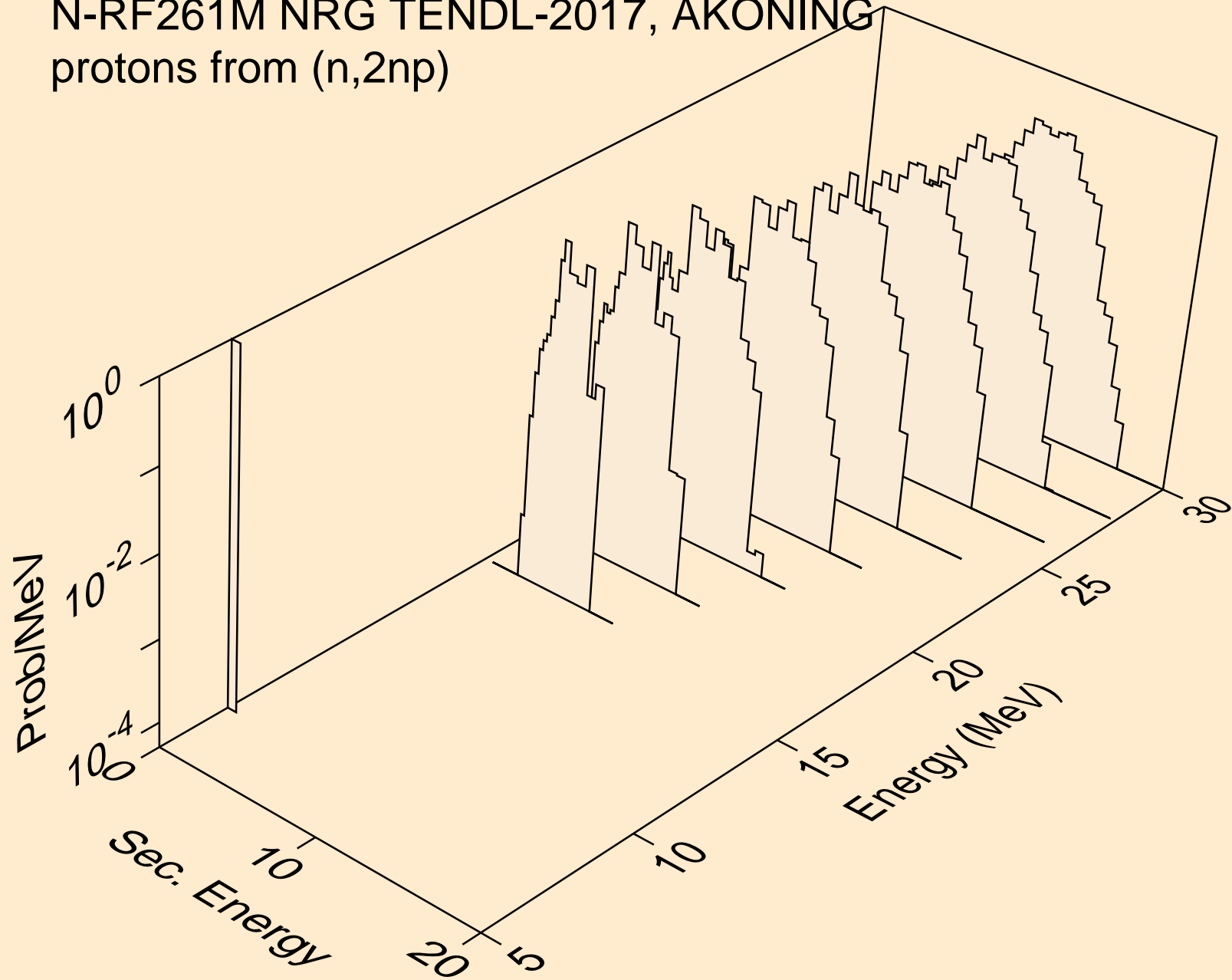protons from (n,n*)p

N-RF261M NRG TENDL-2017, AKONING
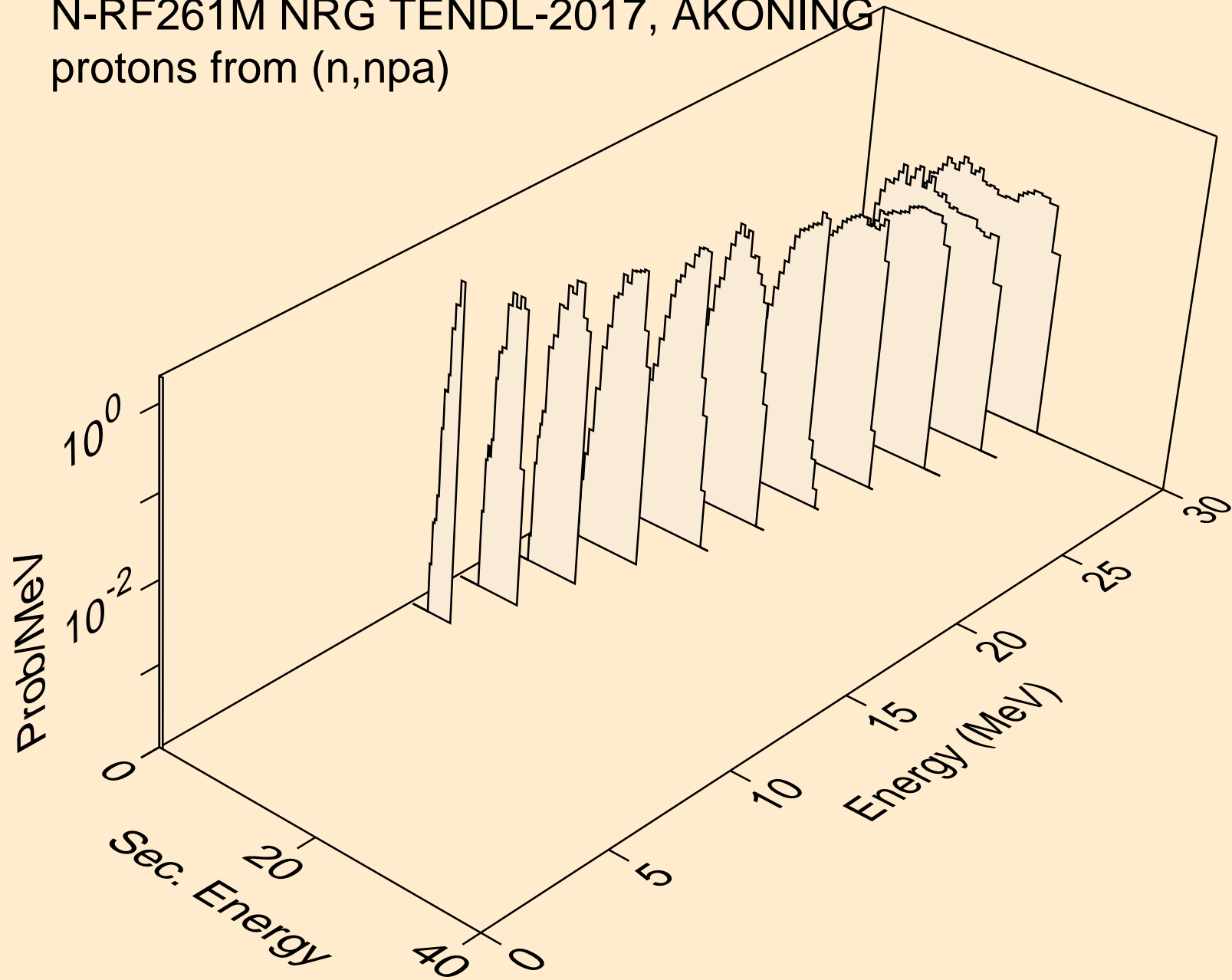protons from (n,2np)

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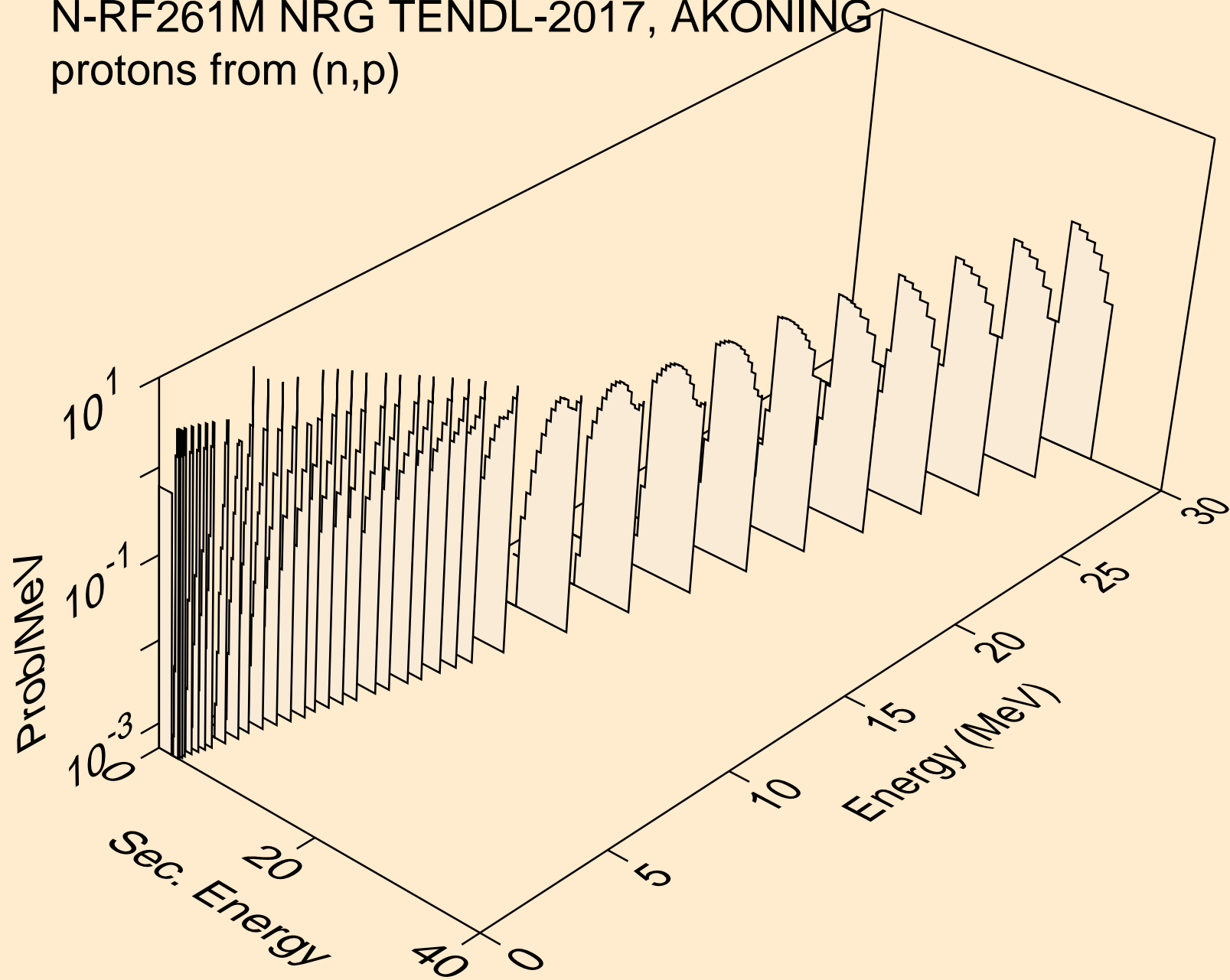protons from (n,3np)

N-RF261M NRG TENDL-2017, AKONING
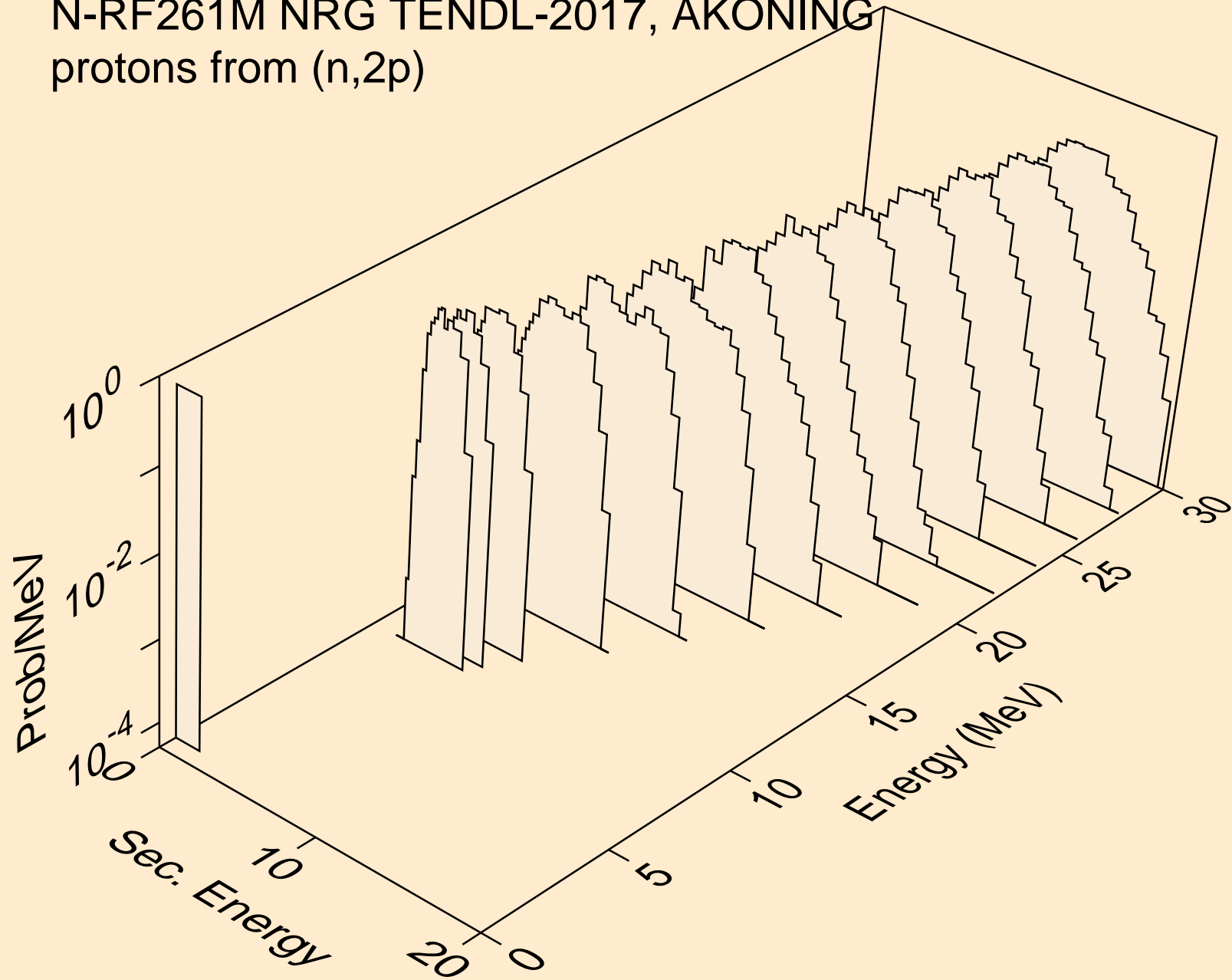protons from (n,2np)

N-RF261M NRG TENDL-2017, AKONING
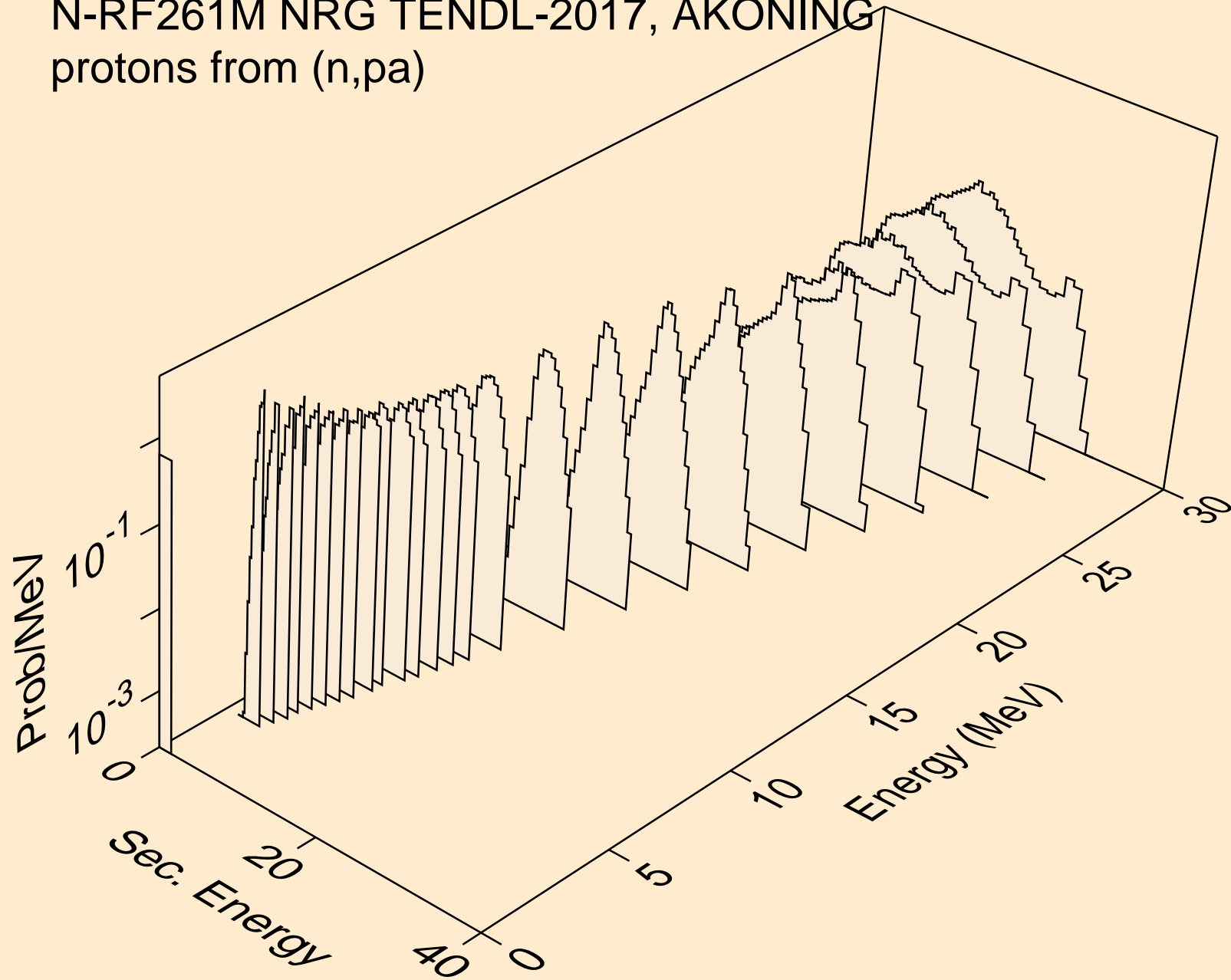protons from (n,npa)
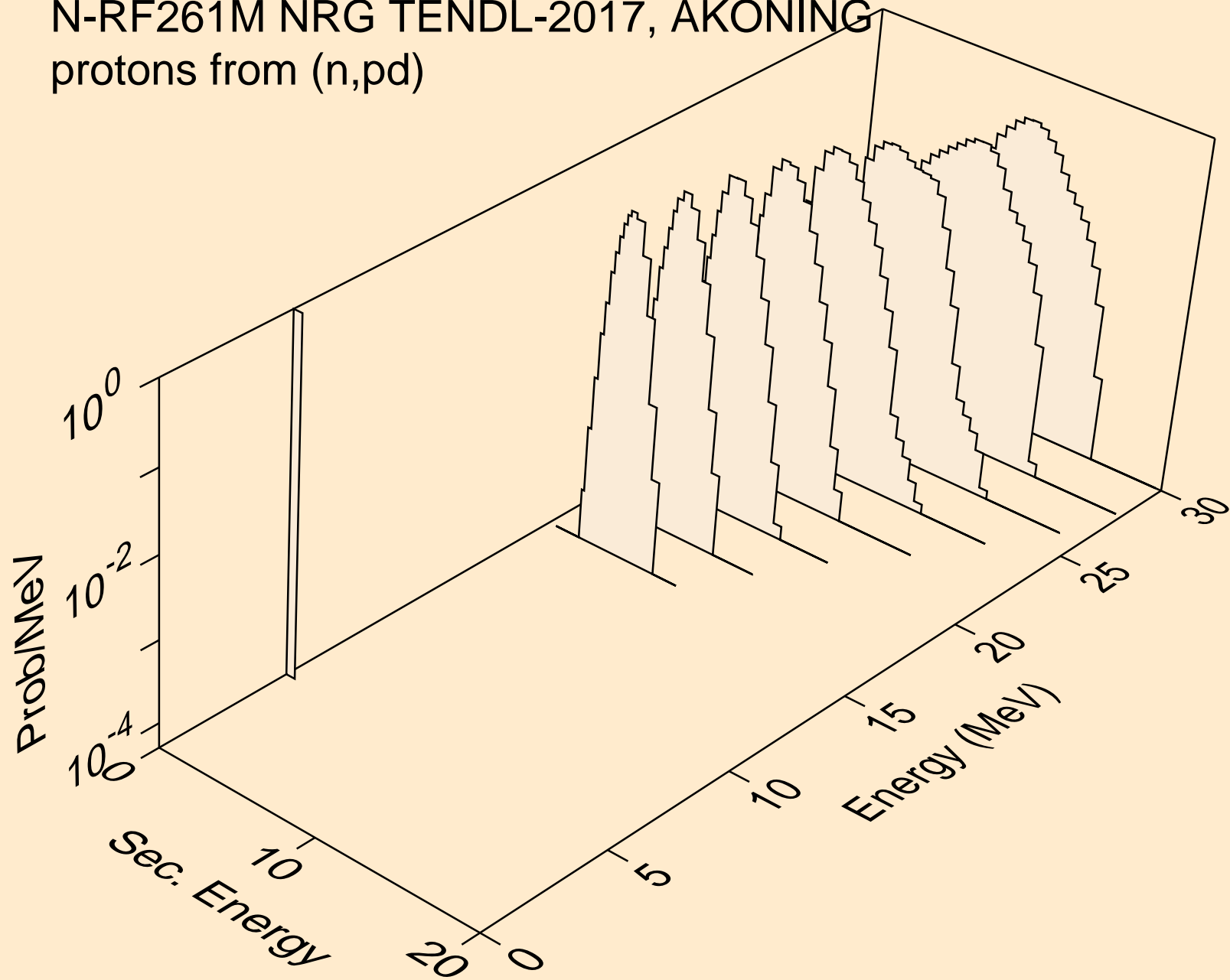
N-RF261M NRG TENDL-2017, AKONING
protons from (n,p)

N-RF261M NRG TENDL-2017, AKONING
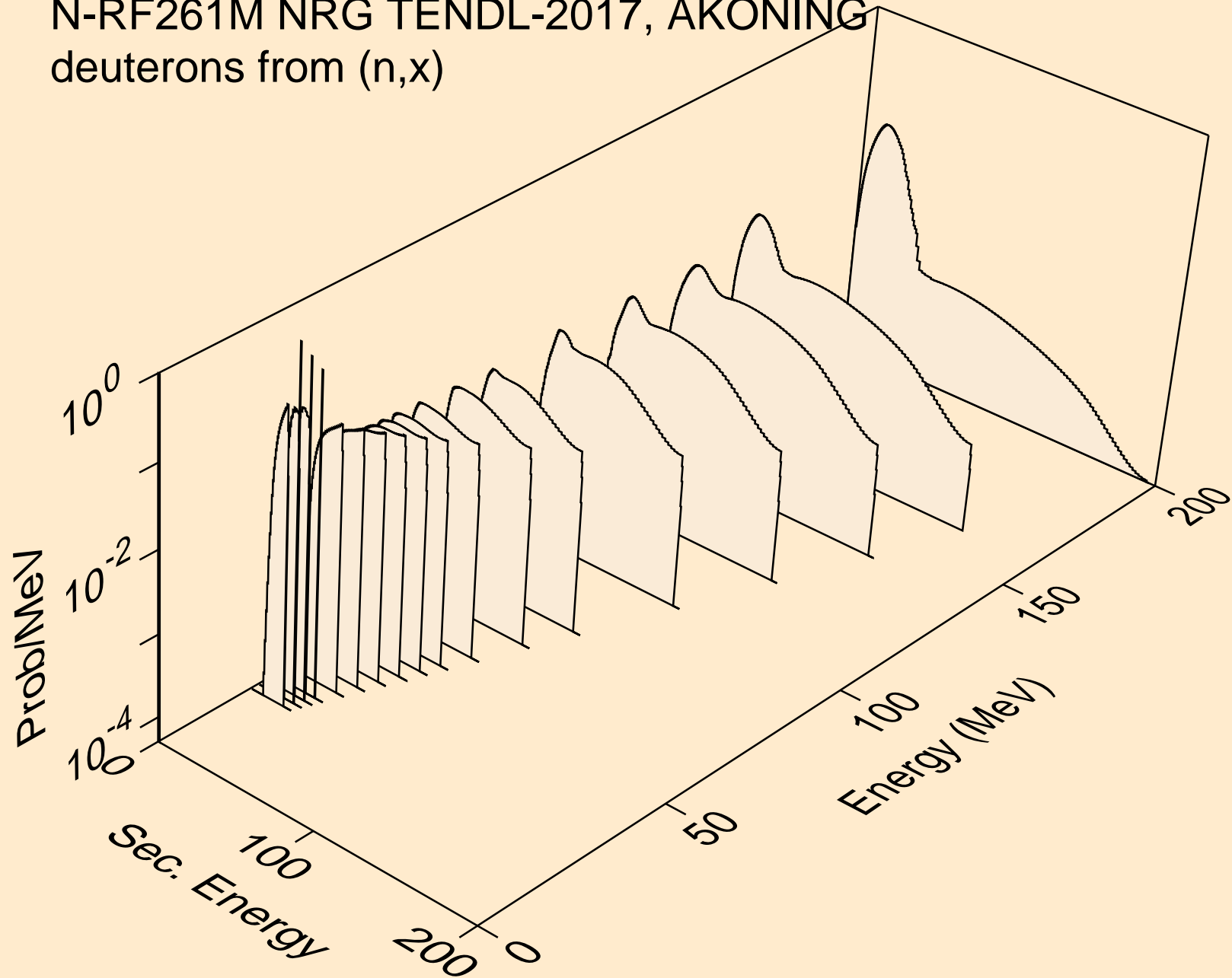protons from (n,2p)

N-RF261M NRG TENDL-2017, AKONING
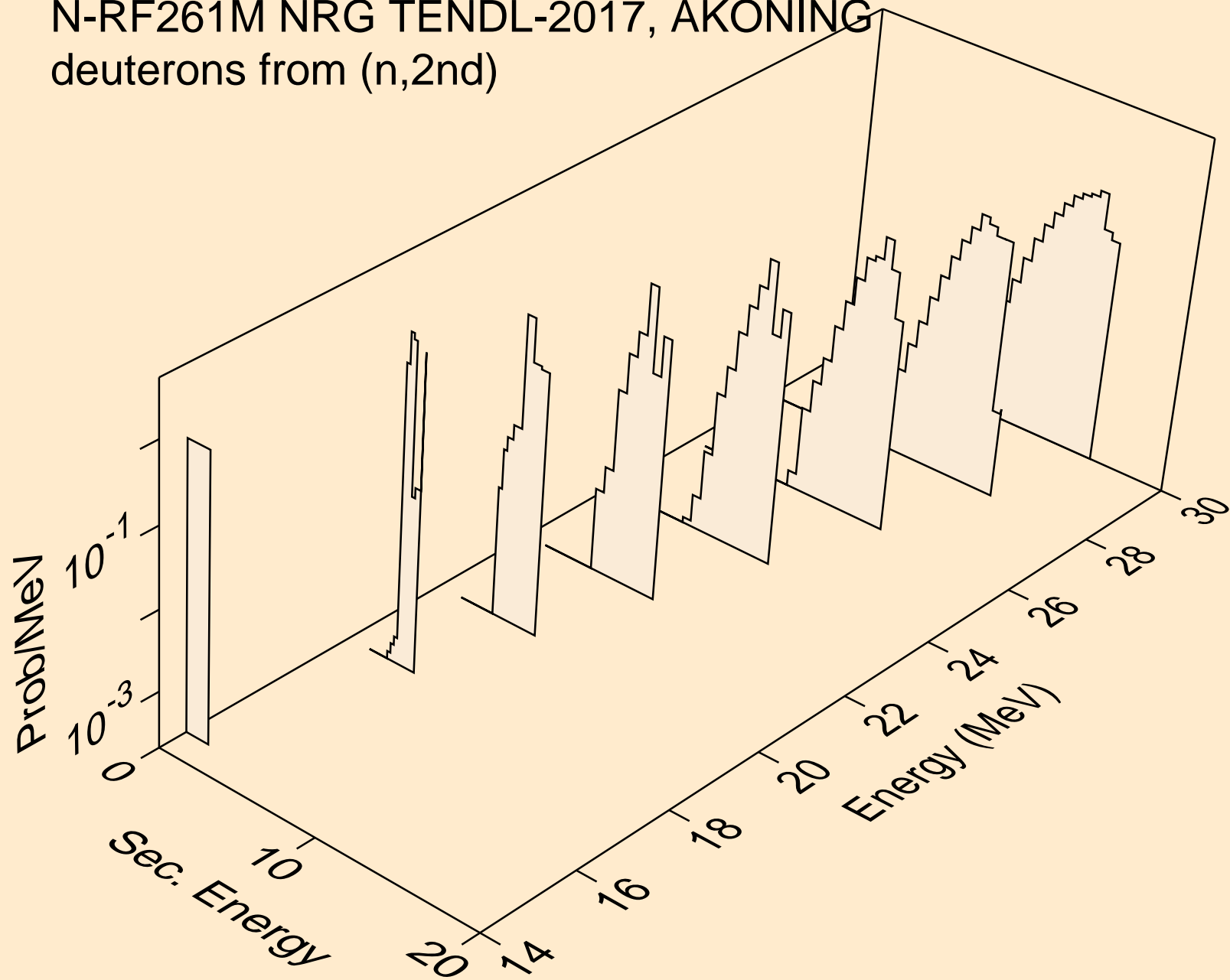protons from (n,pa)

N-RF261M NRG TENDL-2017, AKONING
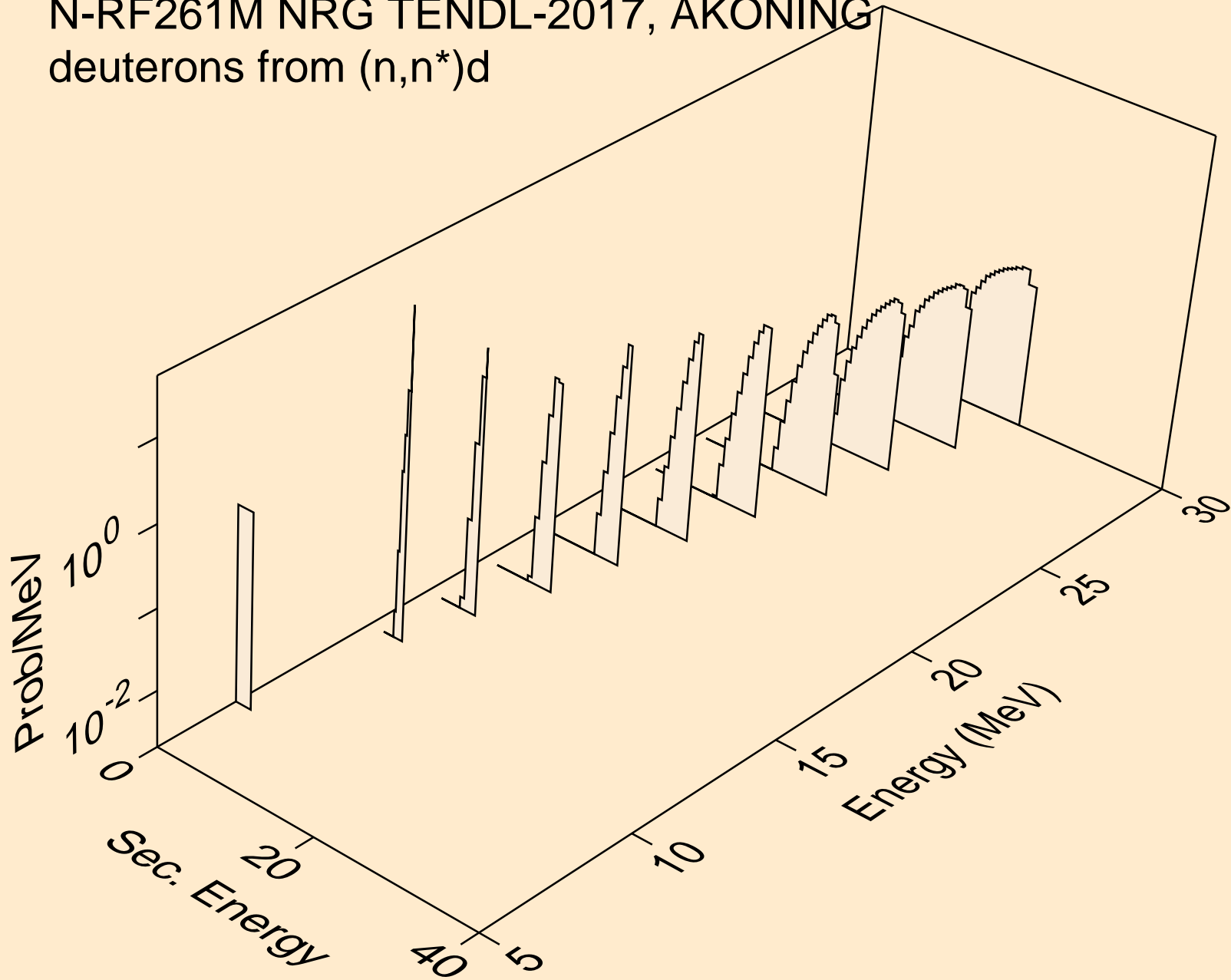protons from (n,pd)

N-RF261M NRG TENDL-2017, AKONING
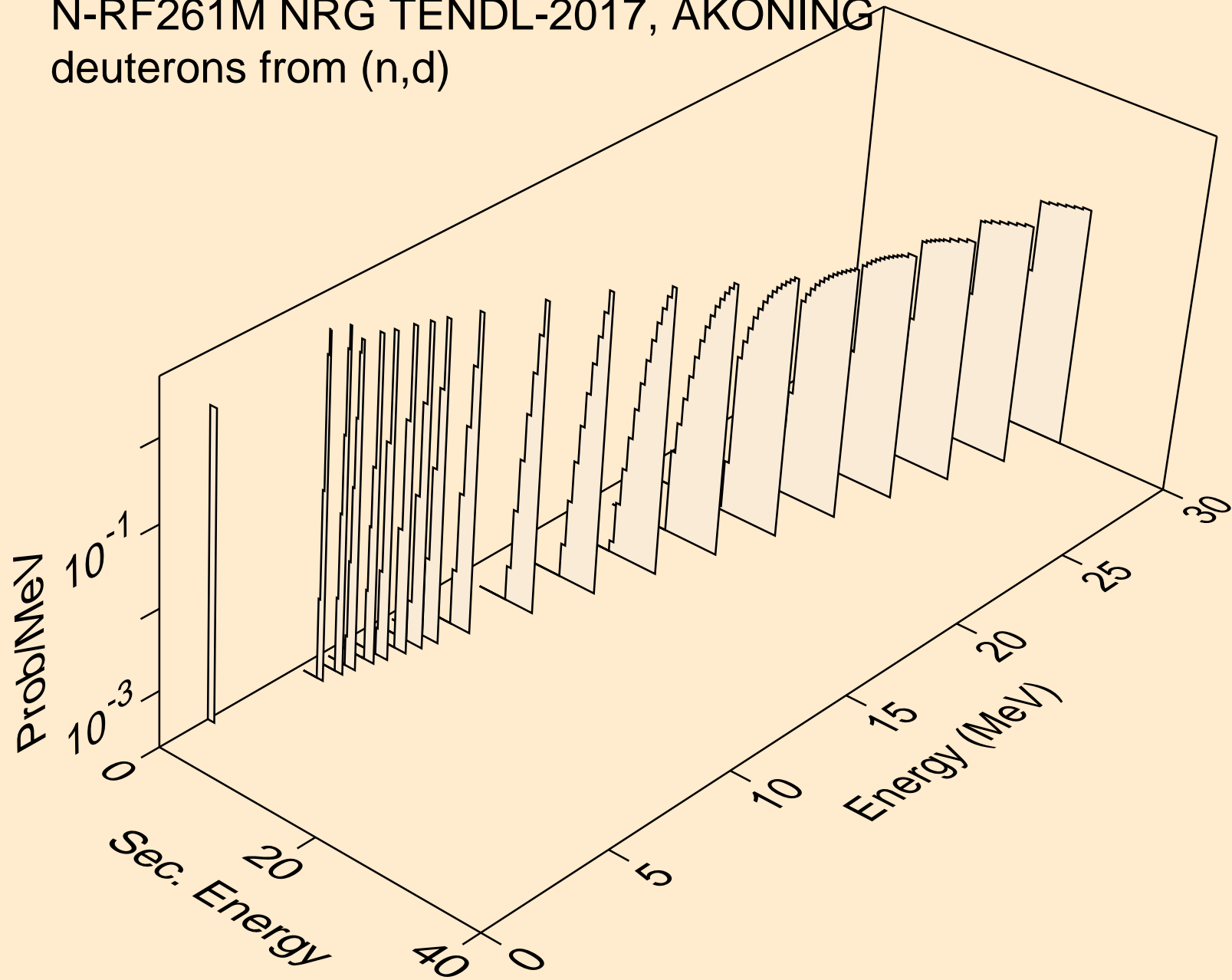deuterons from (n,x)

N-RF261M NRG TENDL-2017, AKONING
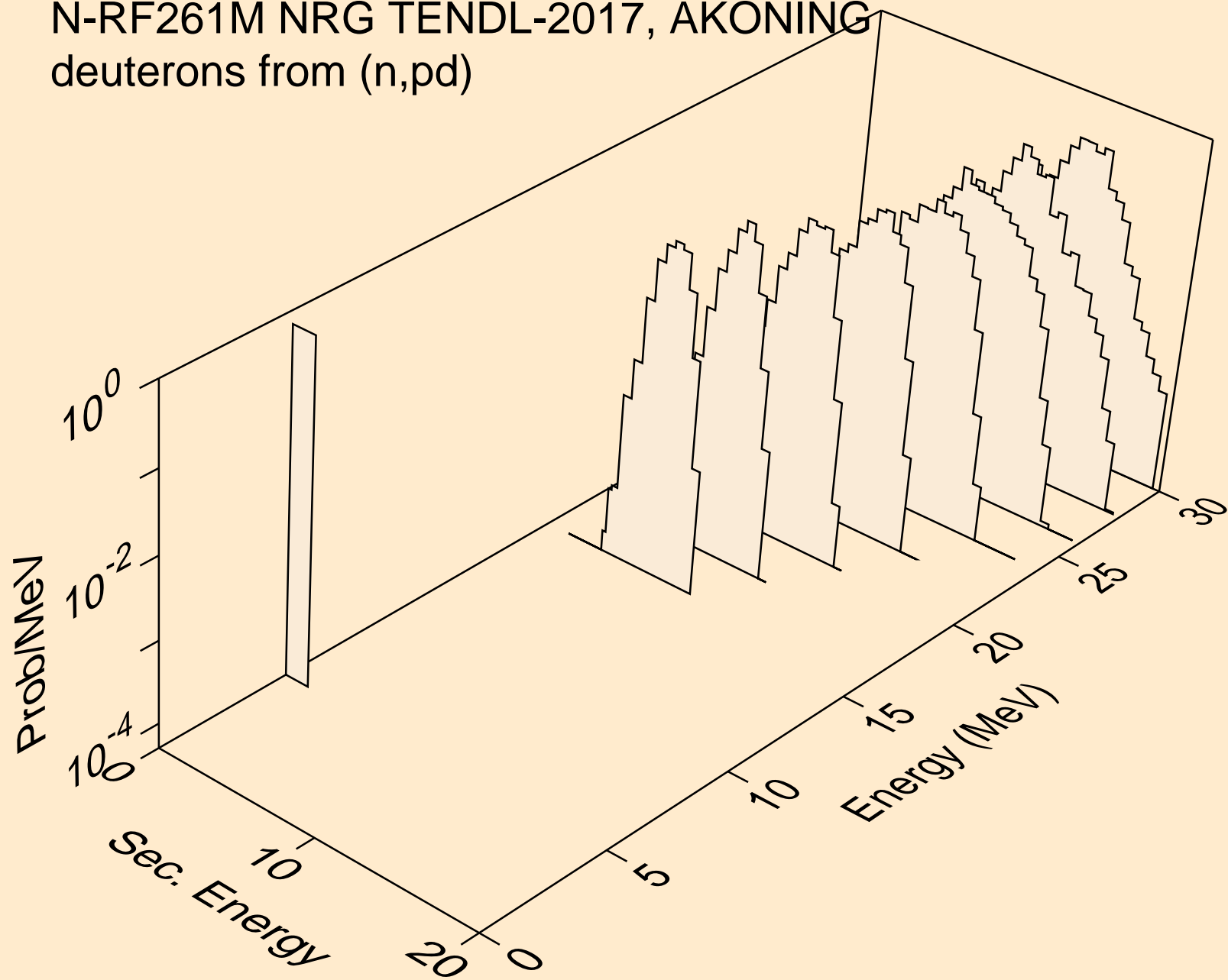deuterons from (n,2nd)

N-RF261M NRG TENDL-2017, AKONING
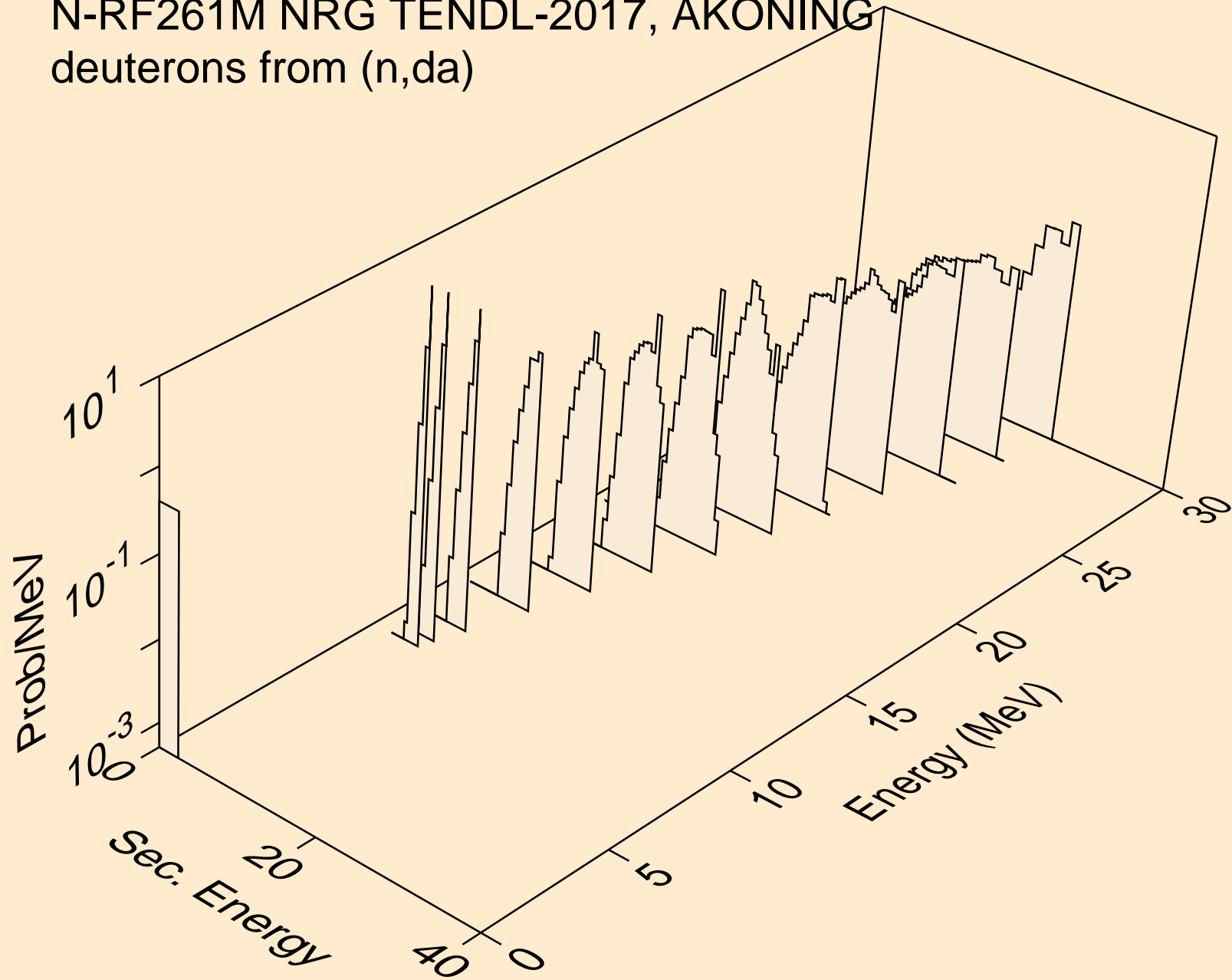deuterons from (n,n*)d

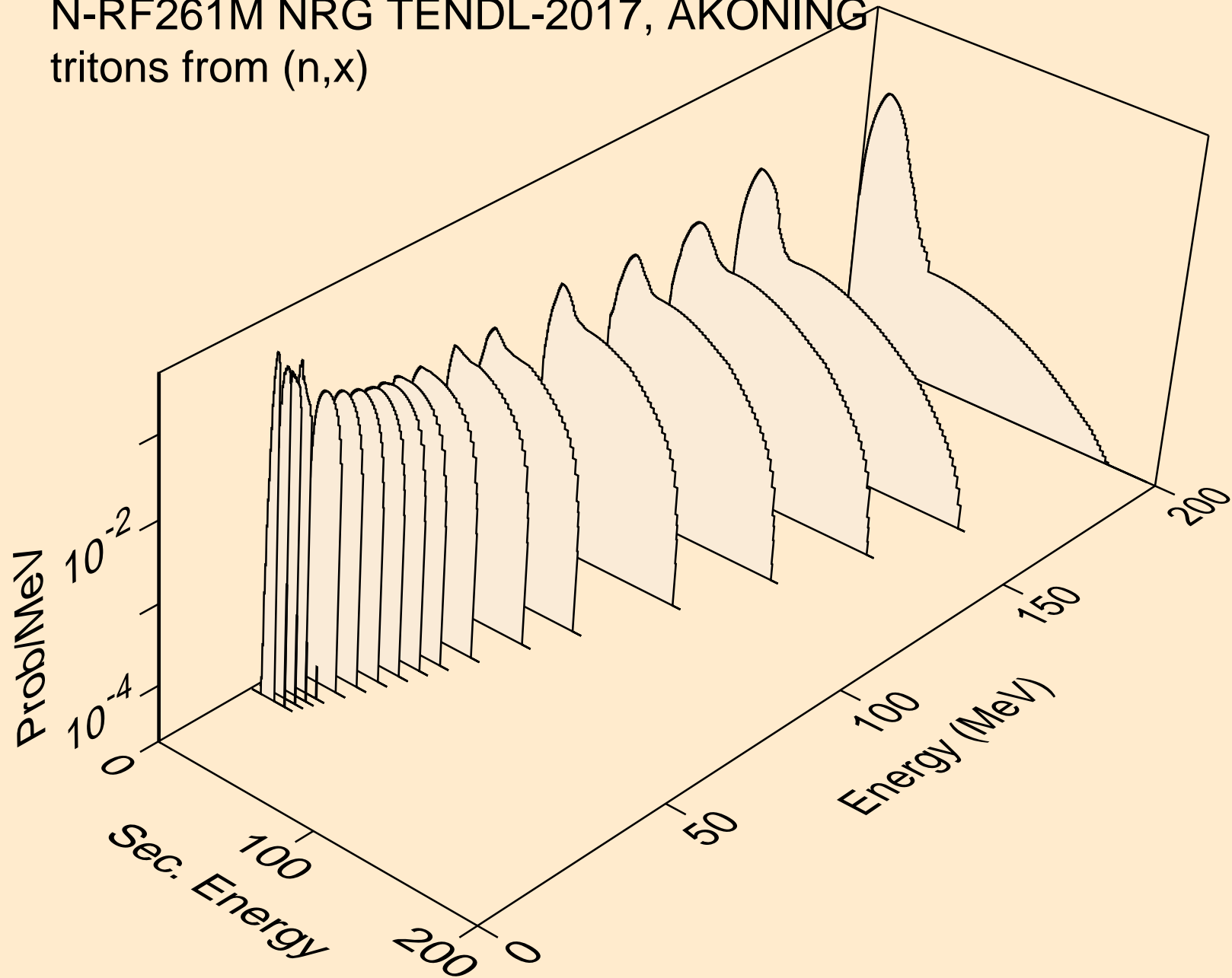N-RF261M NRG TENDL-2017, AKONING
deuterons from (n,d)

N-RF261M NRG TENDL-2017, AKONING
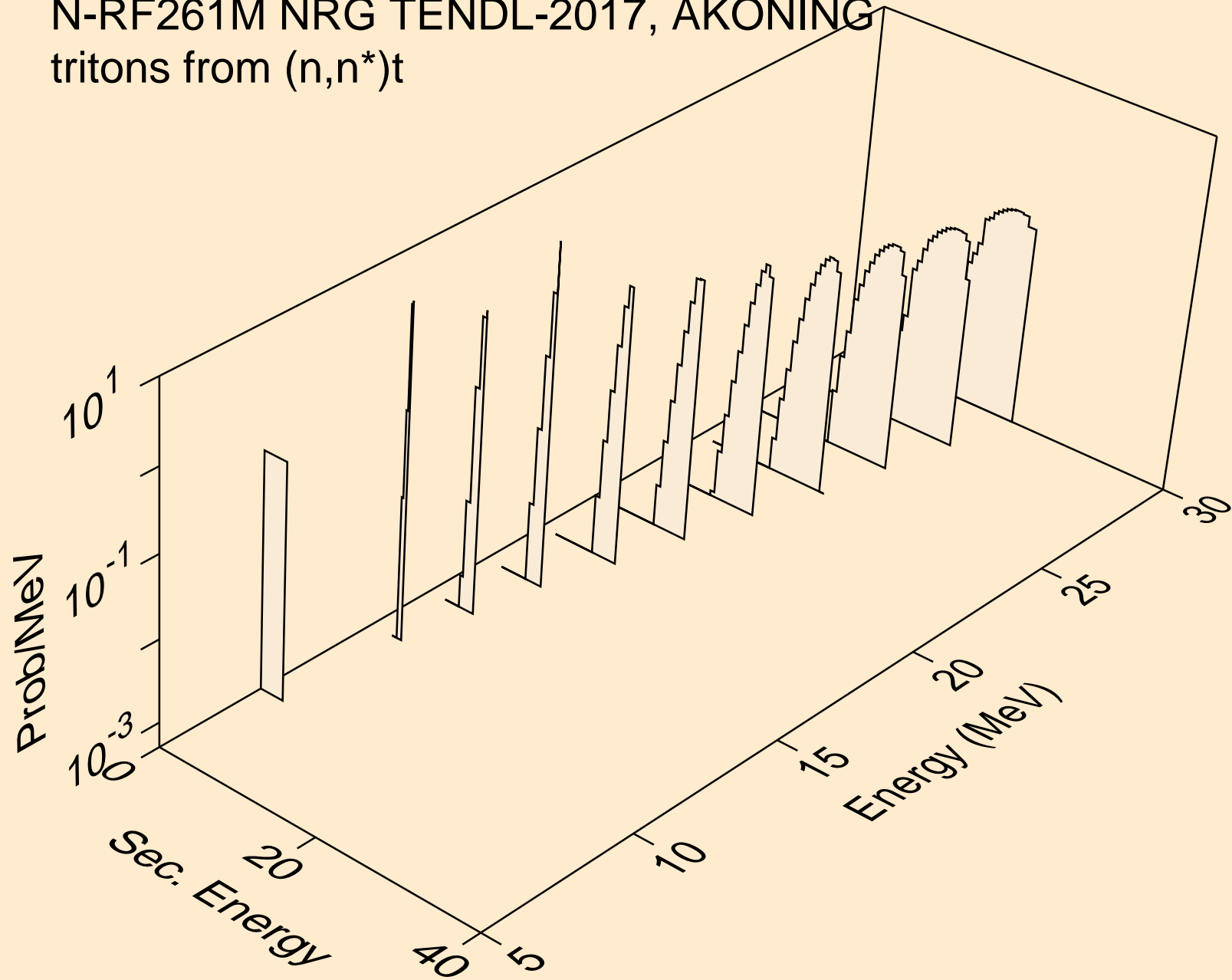deuterons from (n,pd)

N-RF261M NRG TENDL-2017, AKONING
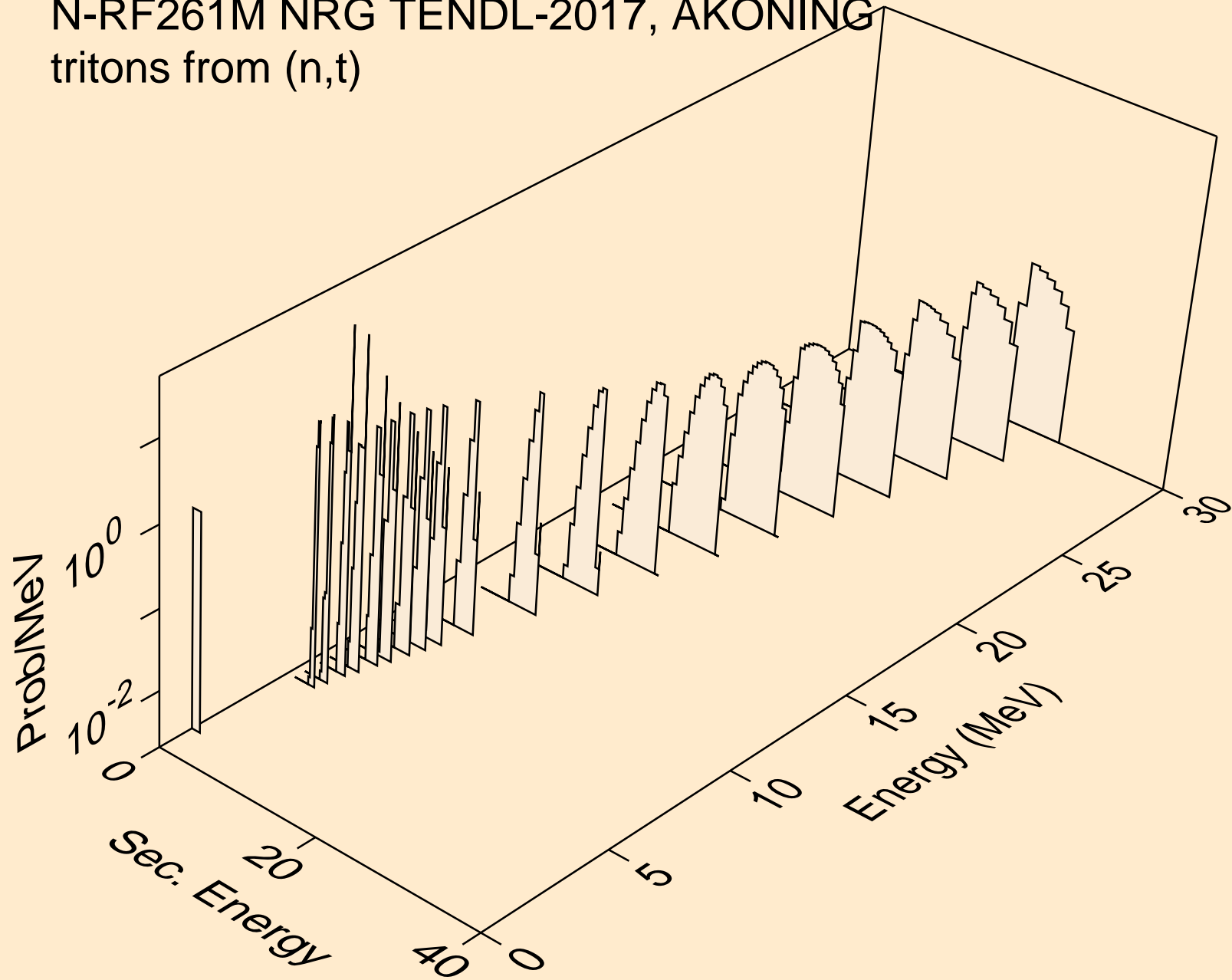deuterons from (n,da)

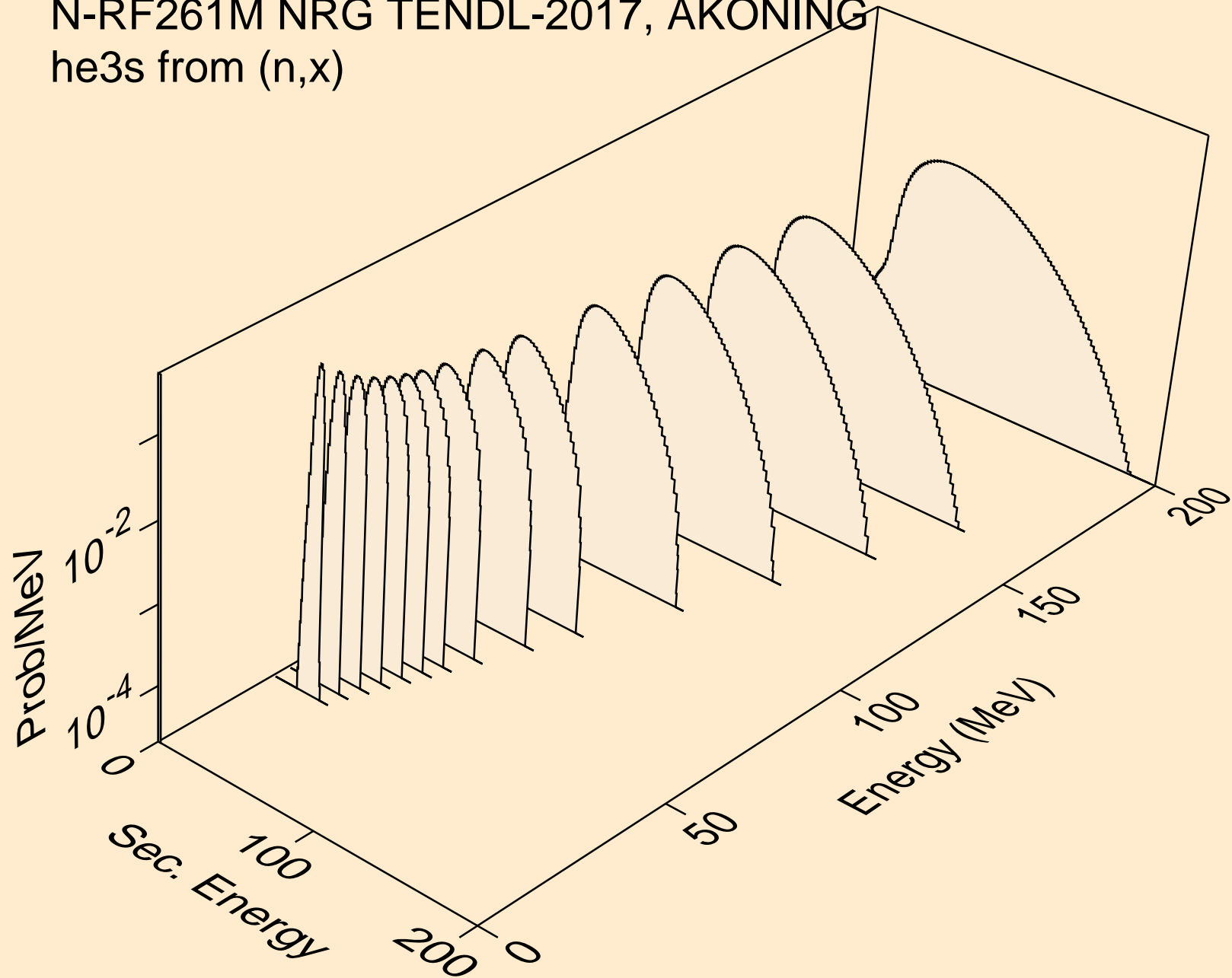N-RF261M NRG TENDL-2017, AKONING
tritons from (n,x)

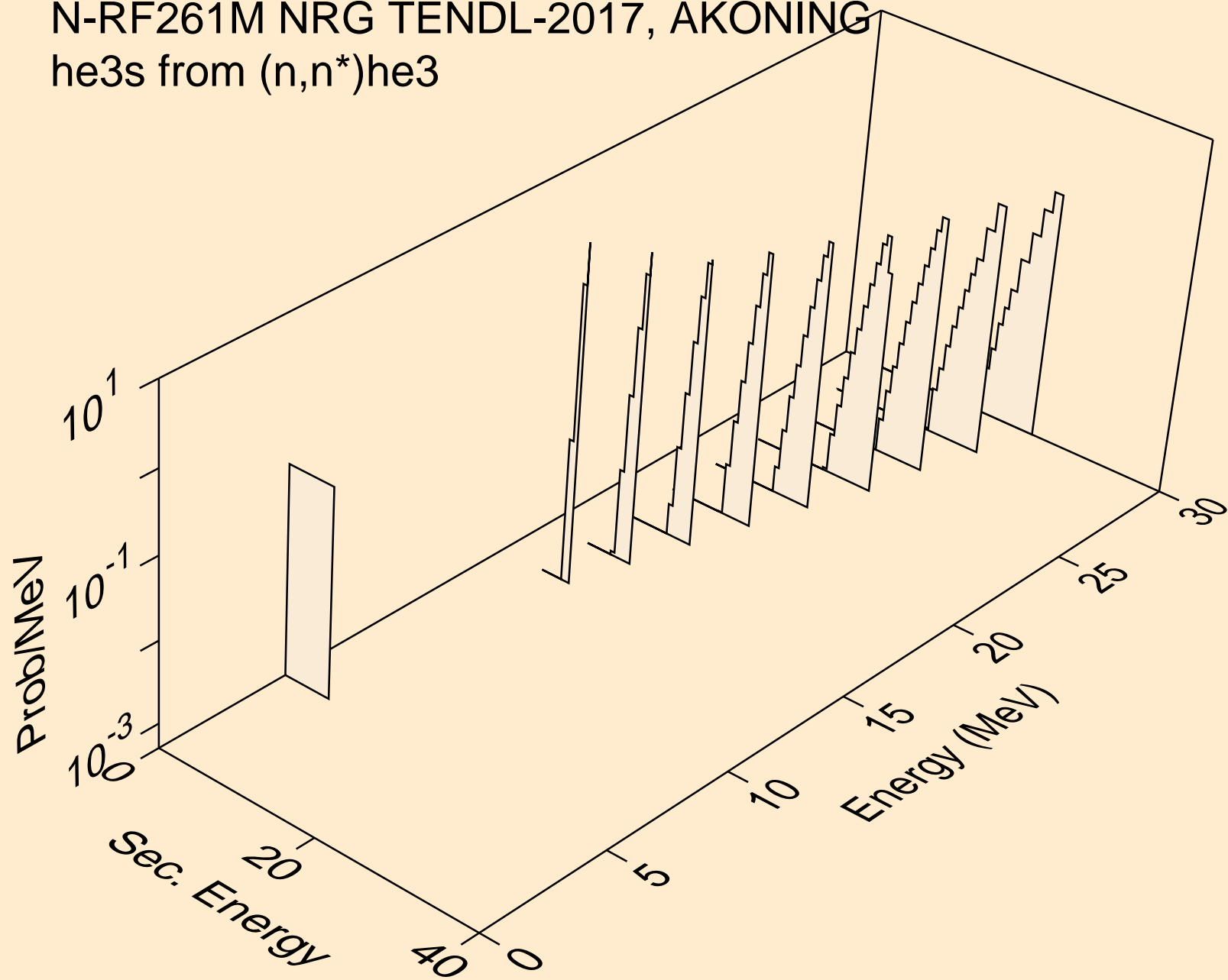N-RF261M NRG TENDL-2017, AKONING
tritons from (n,n*)t

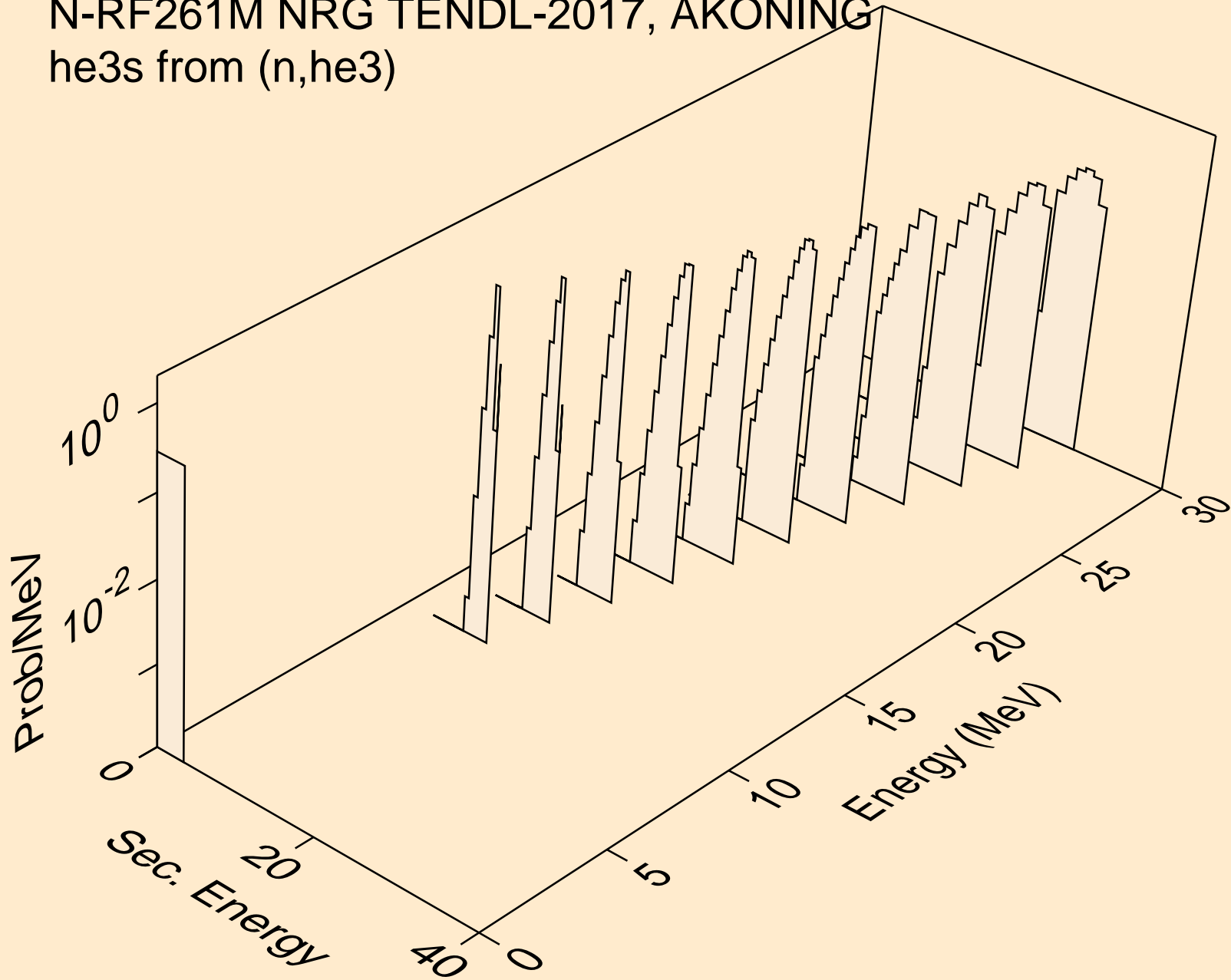N-RF261M NRG TENDL-2017, AKONING
tritons from (n,t)

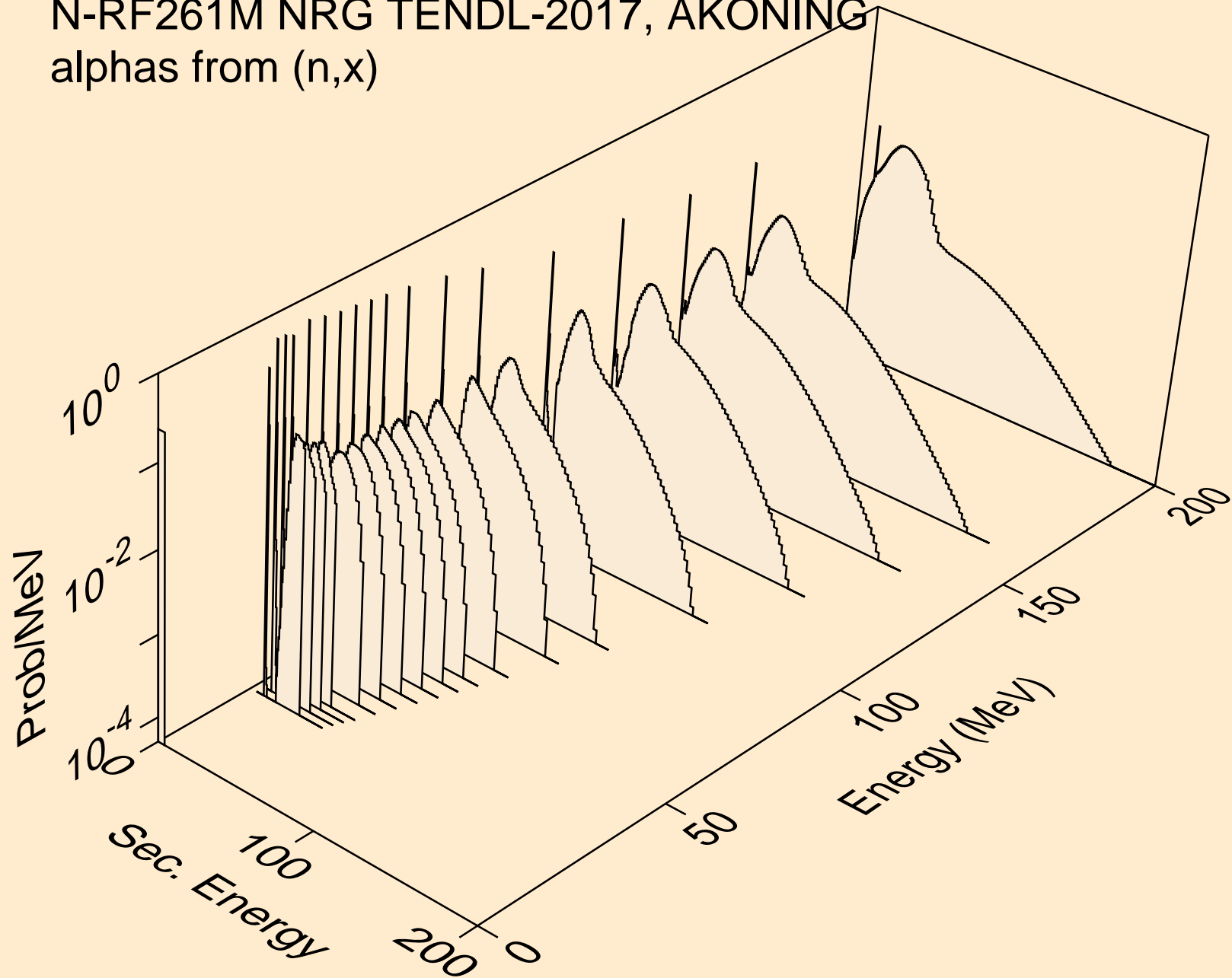N-RF261M NRG TENDL-2017, AKONING
he3s from (n,x)

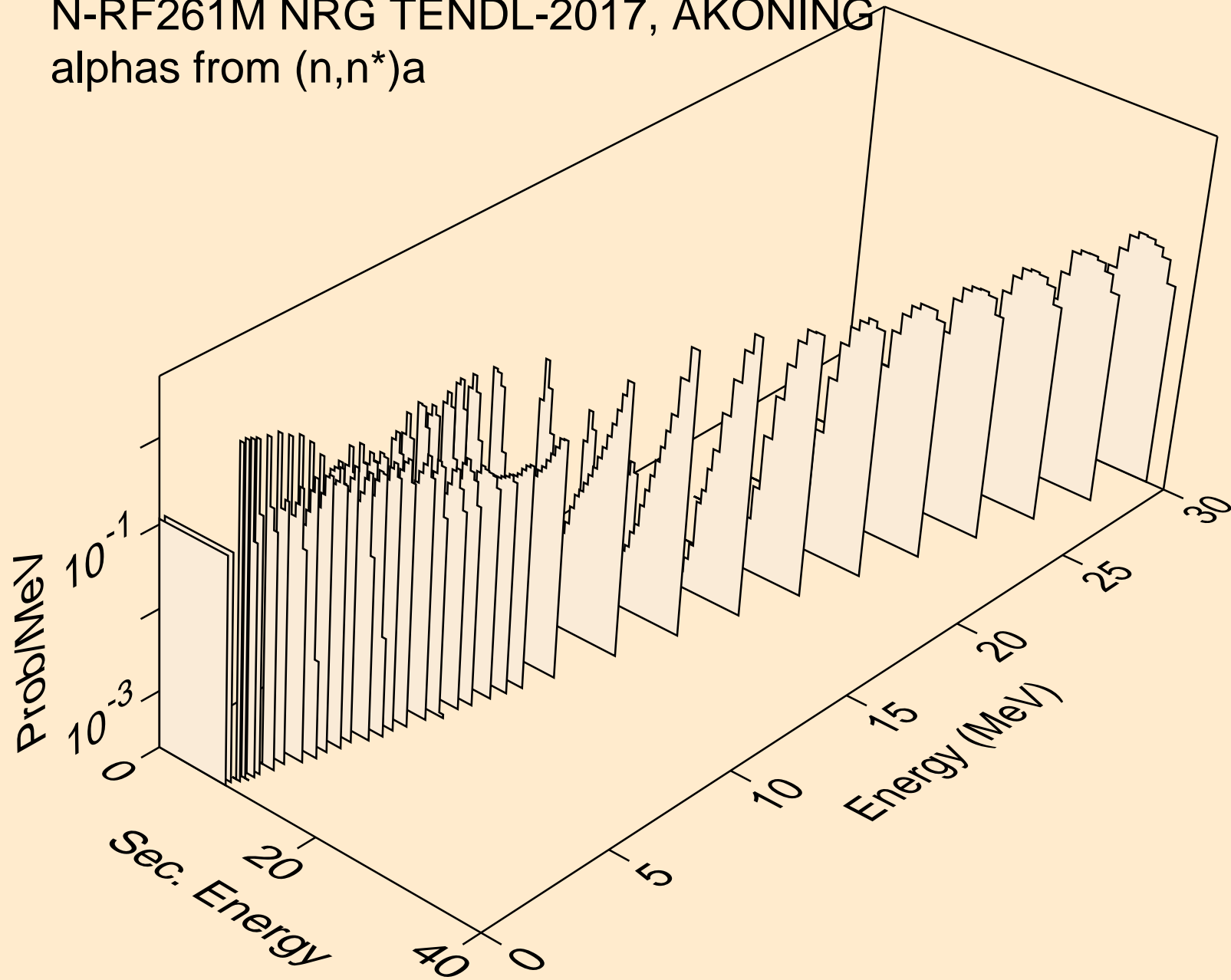N-RF261M NRG TENDL-2017, AKONING
he3s from (n,n*)he3
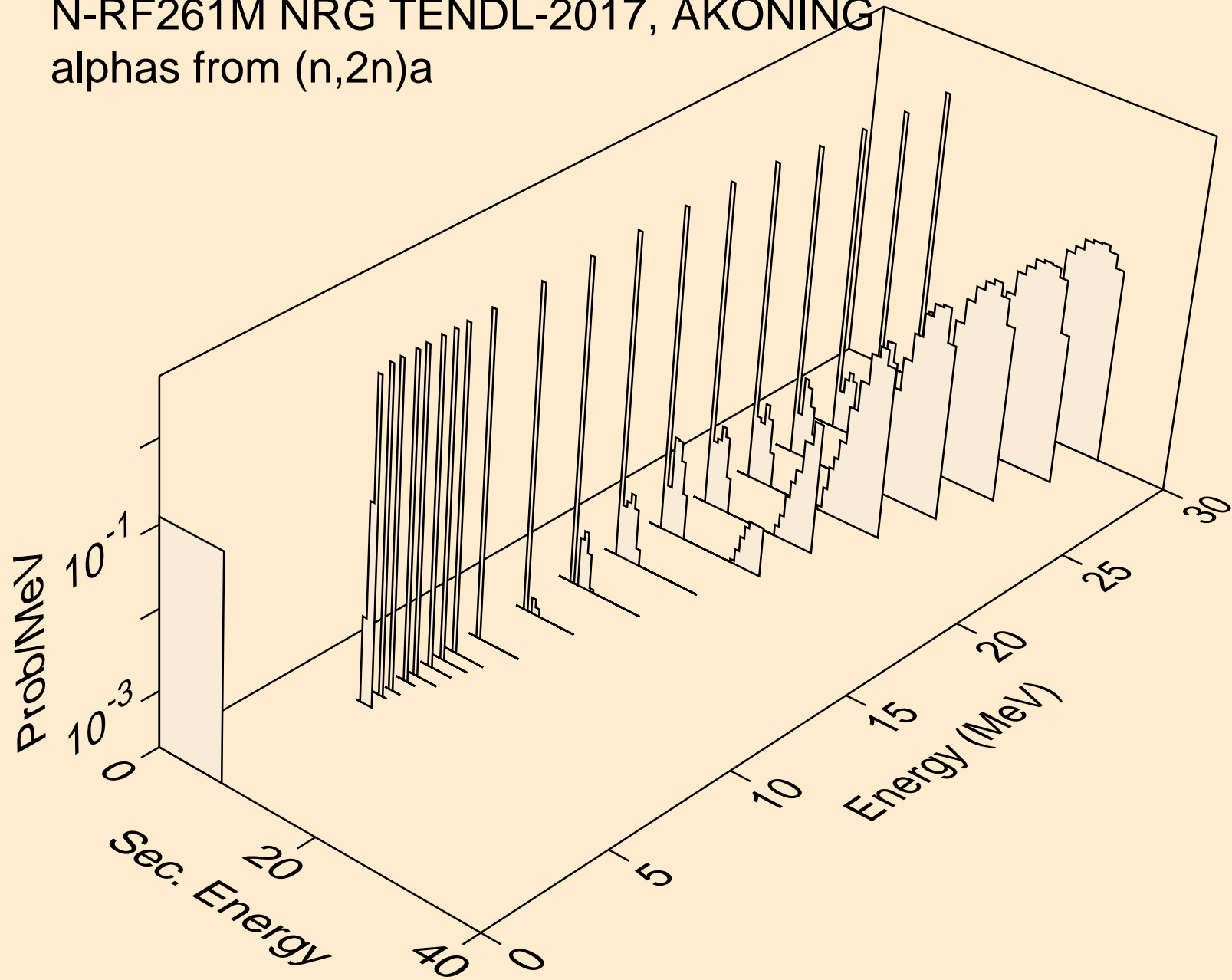
N-RF261M NRG TENDL-2017, AKONING
he3s from (n,he3)

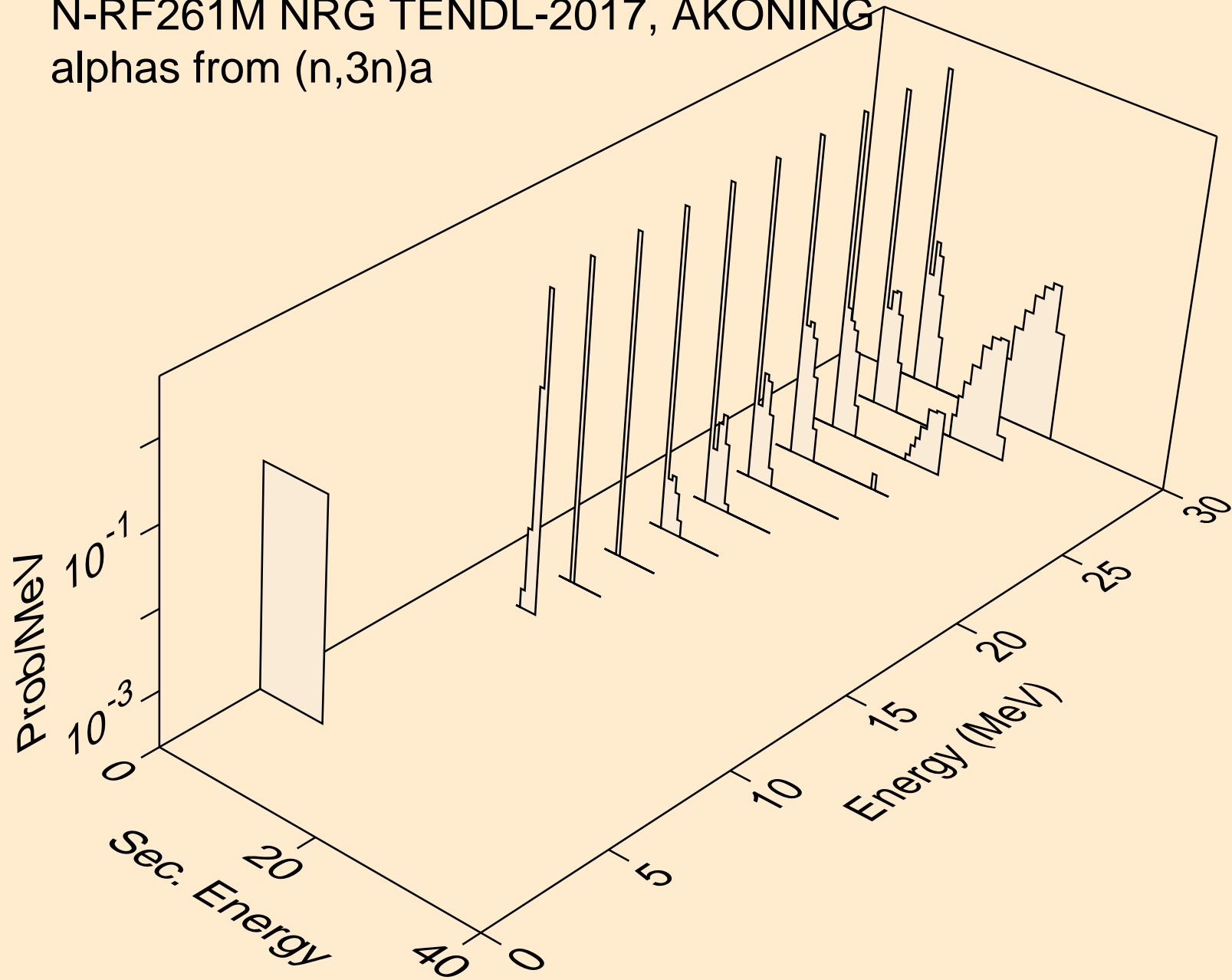N-RF261M NRG TENDL-2017, AKONING
alphas from (n,x)

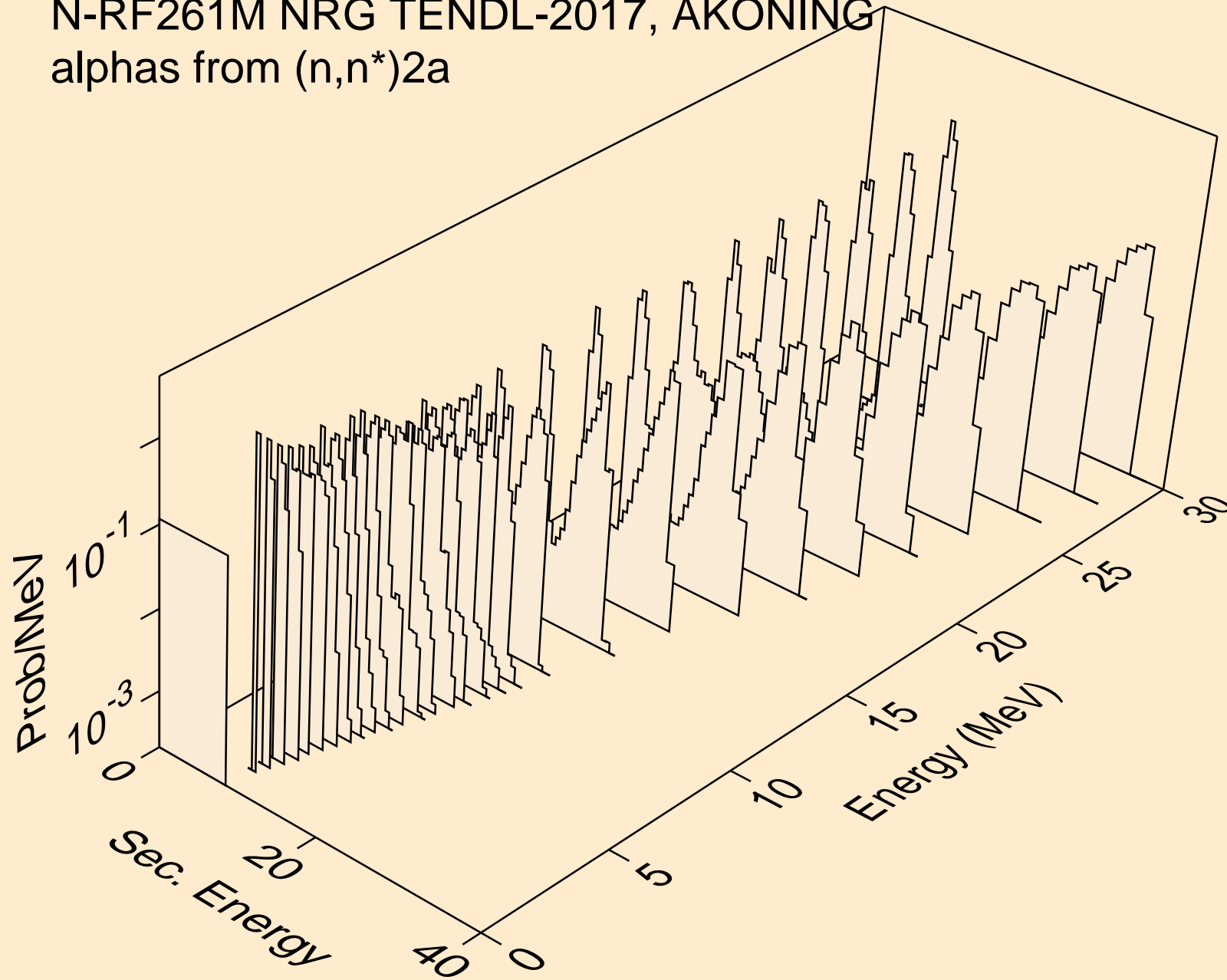N-RF261M NRG TENDL-2017, AKONING
alphas from (n,n*)a

N-RF261M NRG TENDL-2017, AKONING
alphas from (n,2n)a

N-RF261M NRG TENDL-2017, AKONING
alphas from (n,3n)a

Prob/MeV

$10^{-1}$

$10^{-3}$

0

Sec. Energy

20

40

0
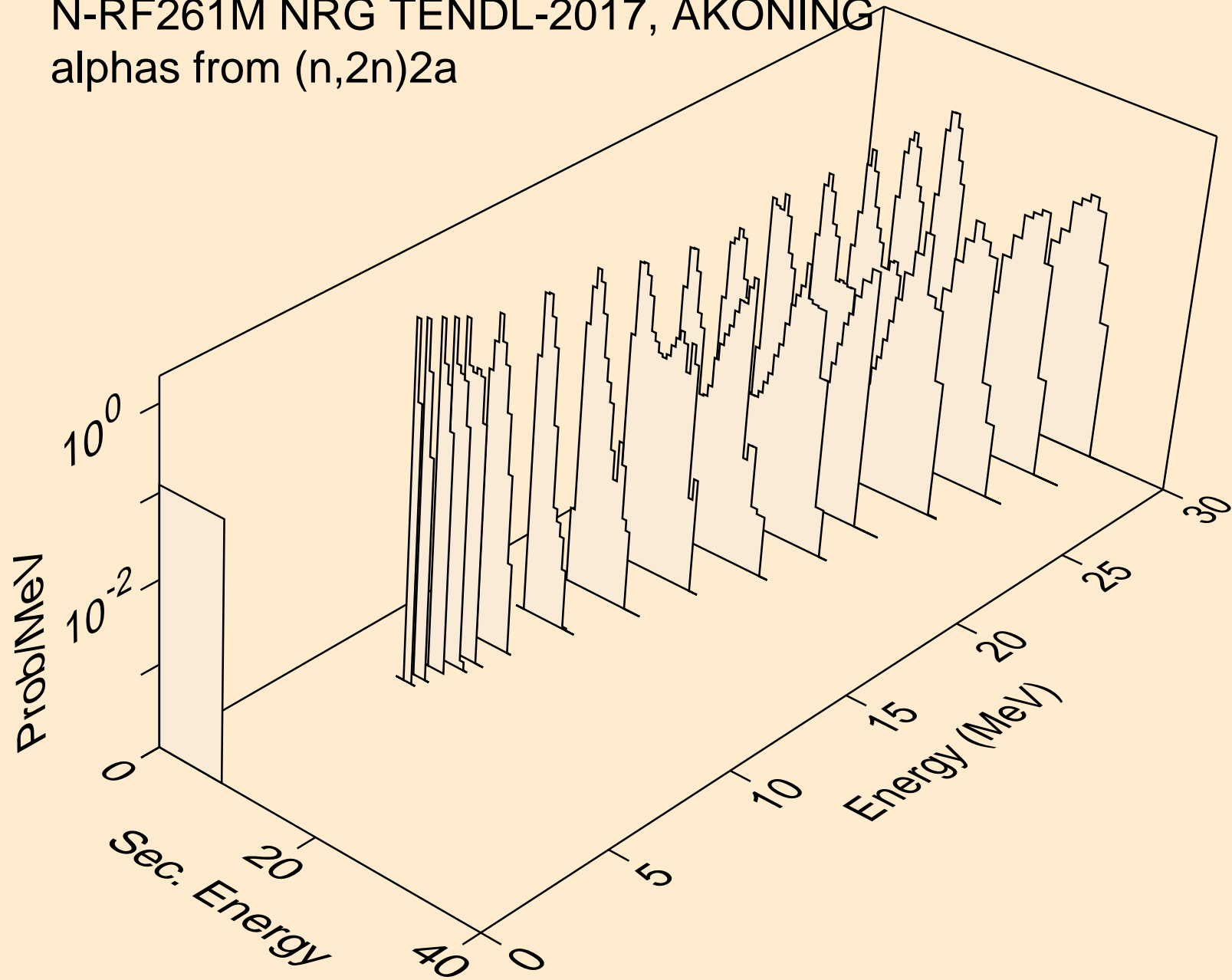
5

10

15

20

25

30

Energy (MeV)

N-RF261M NRG TENDL-2017, AKONING
alphas from (n,n*)2a

N-RF261M NRG TENDL-2017, AKONING
alphas from (n,2n)2a
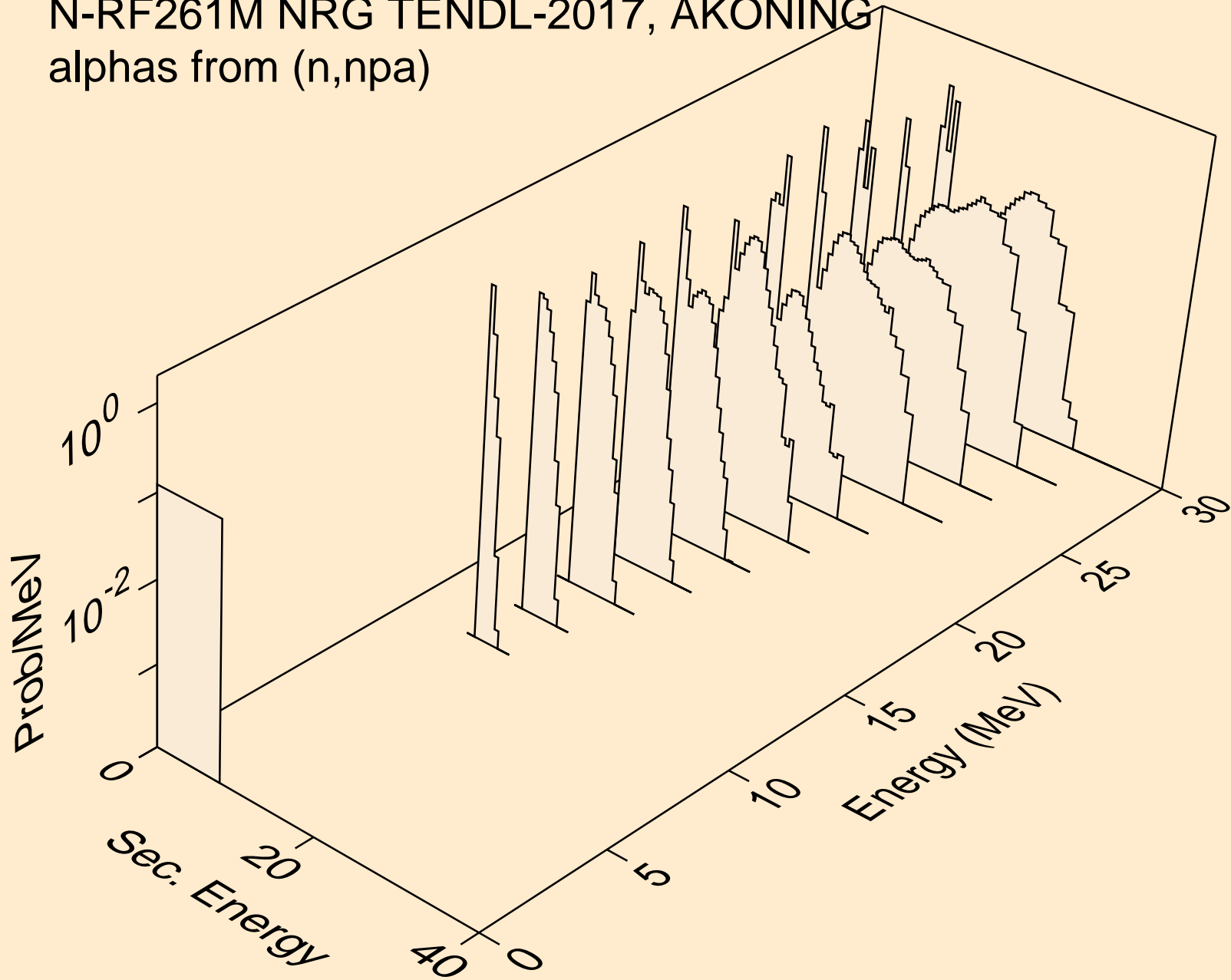
N-RF261M NRG TENDL-2017, AKONING
alphas from (n,npa)

N-RF261M NRG TENDL-2017, AKONING
alphas from (n,a)
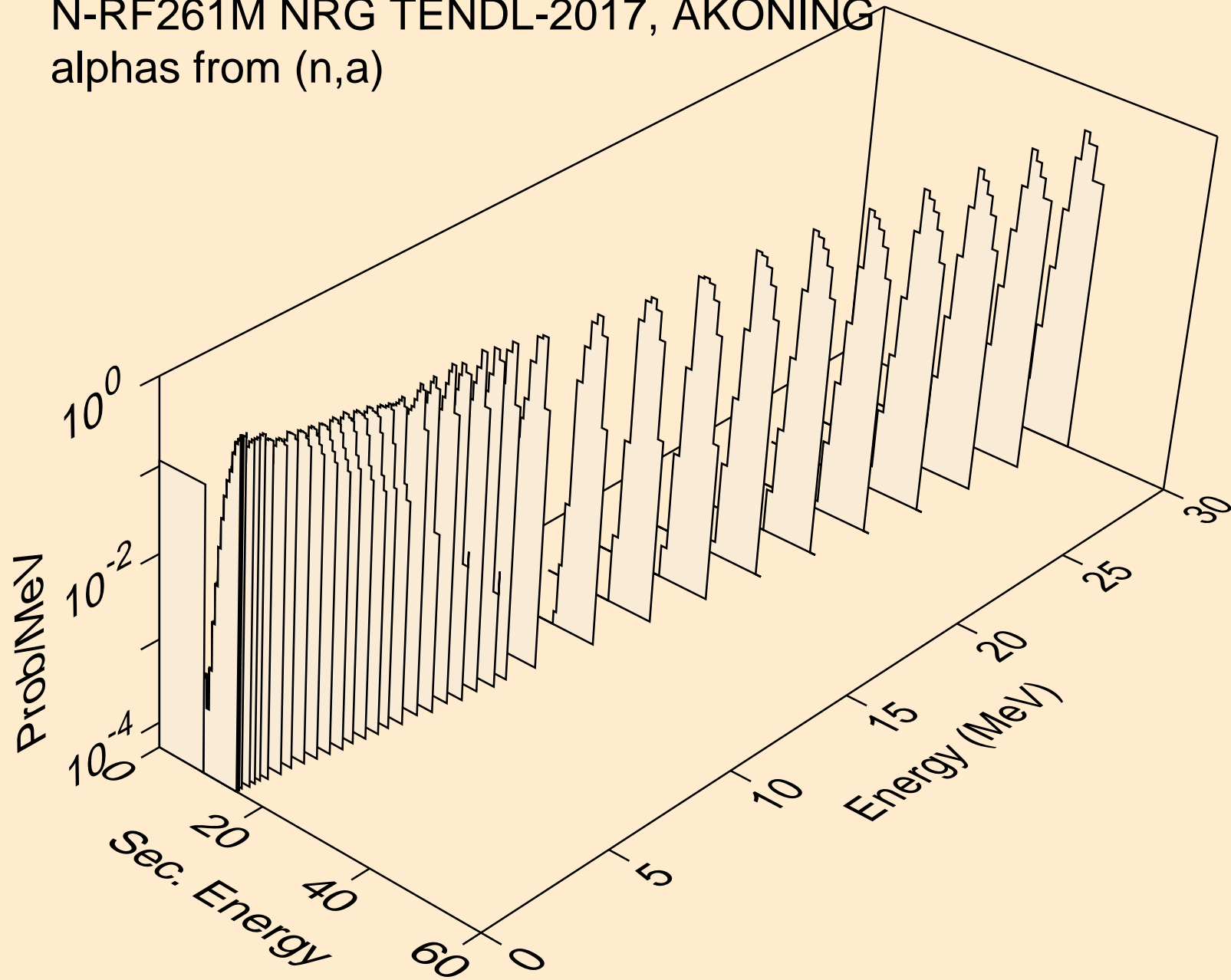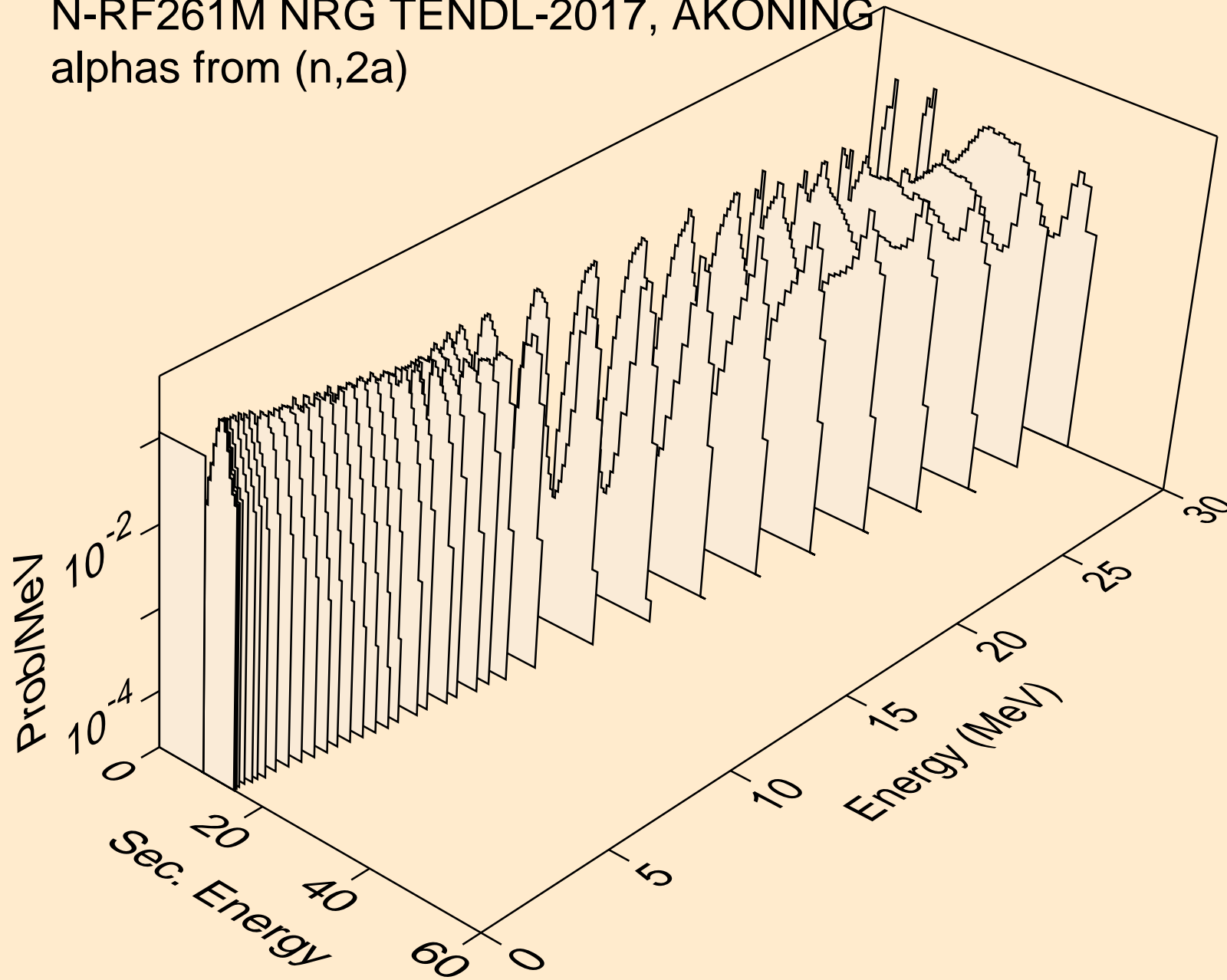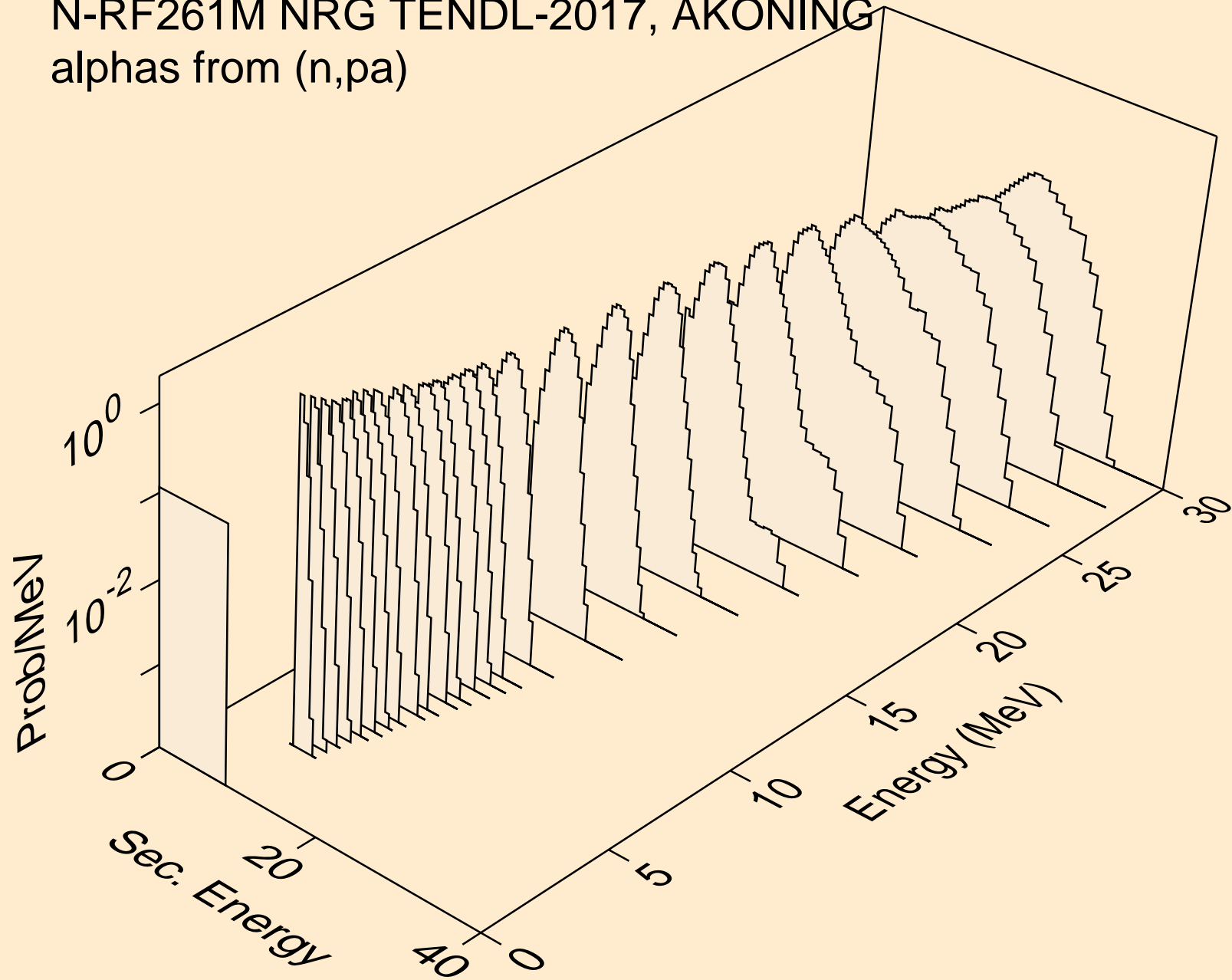
N-RF261M NRG TENDL-2017, AKONING
alphas from (n,2a)

N-RF261M NRG TENDL-2017, AKONING
alphas from (n,pa)

N-RF261M NRG TENDL-2017, AKONING
alphas from (n,da)