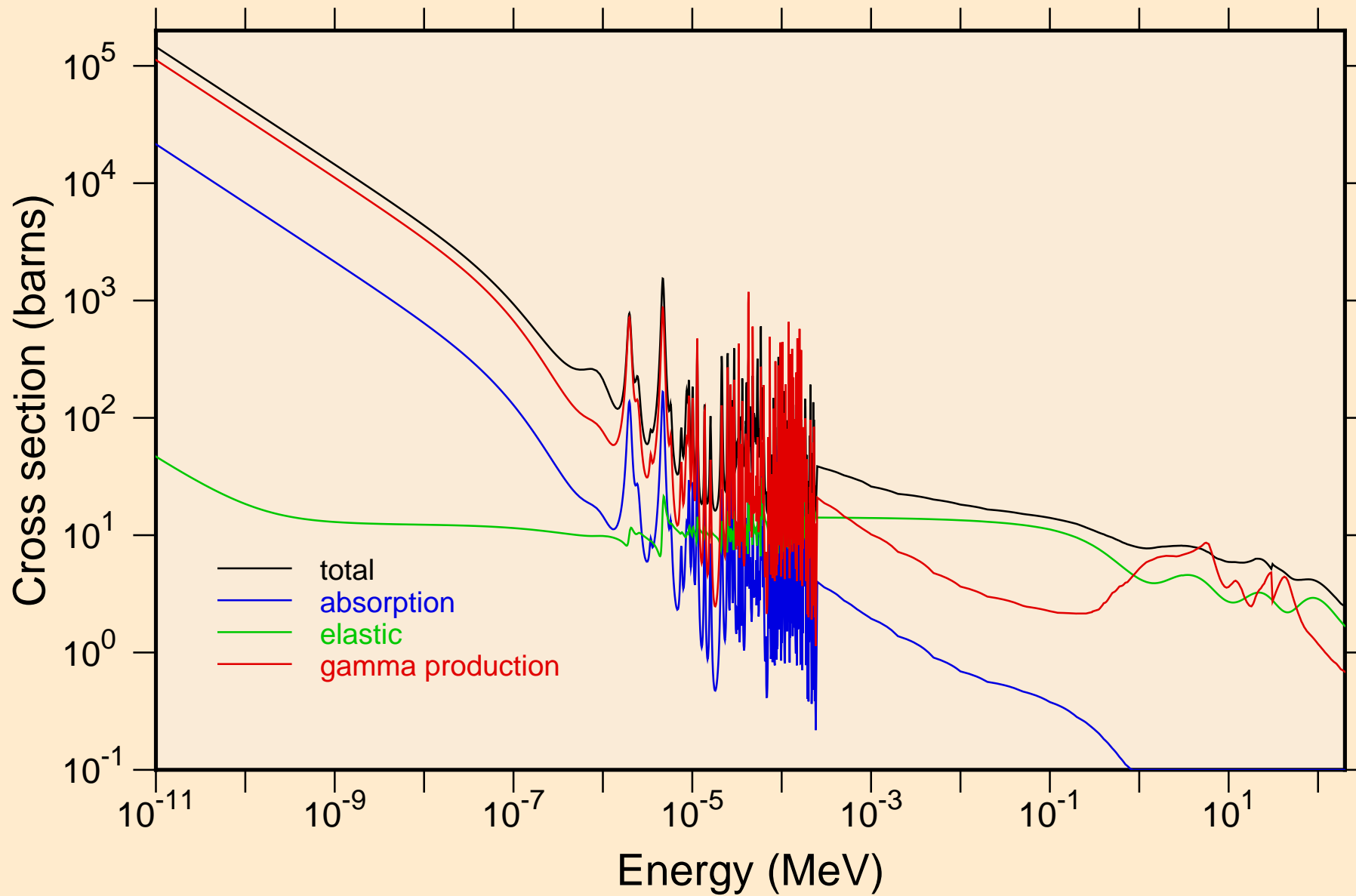CM245 NRG TENDL-2015, AKONING
Principal cross sections

Cross section (barns) vs Energy (MeV)
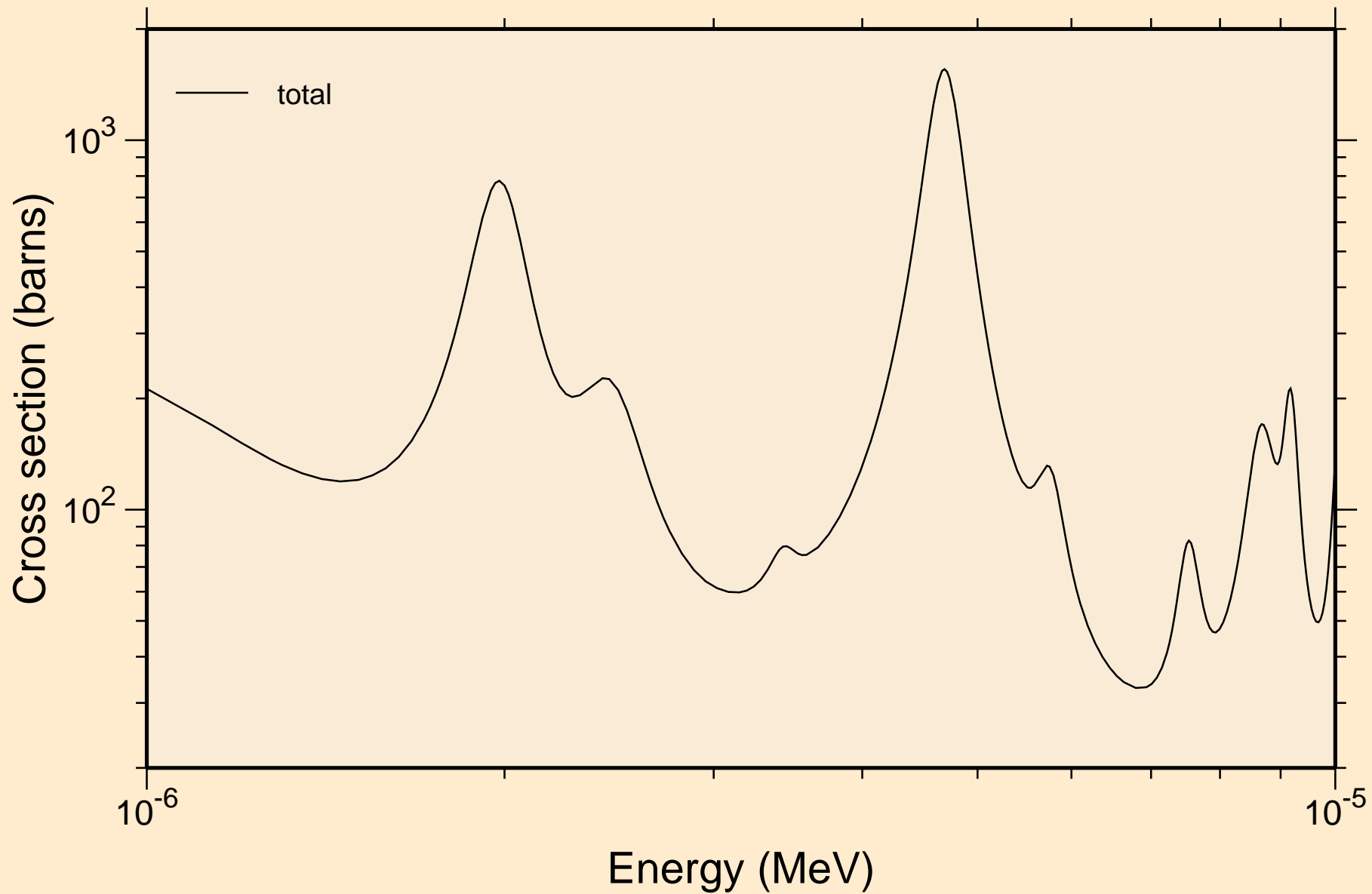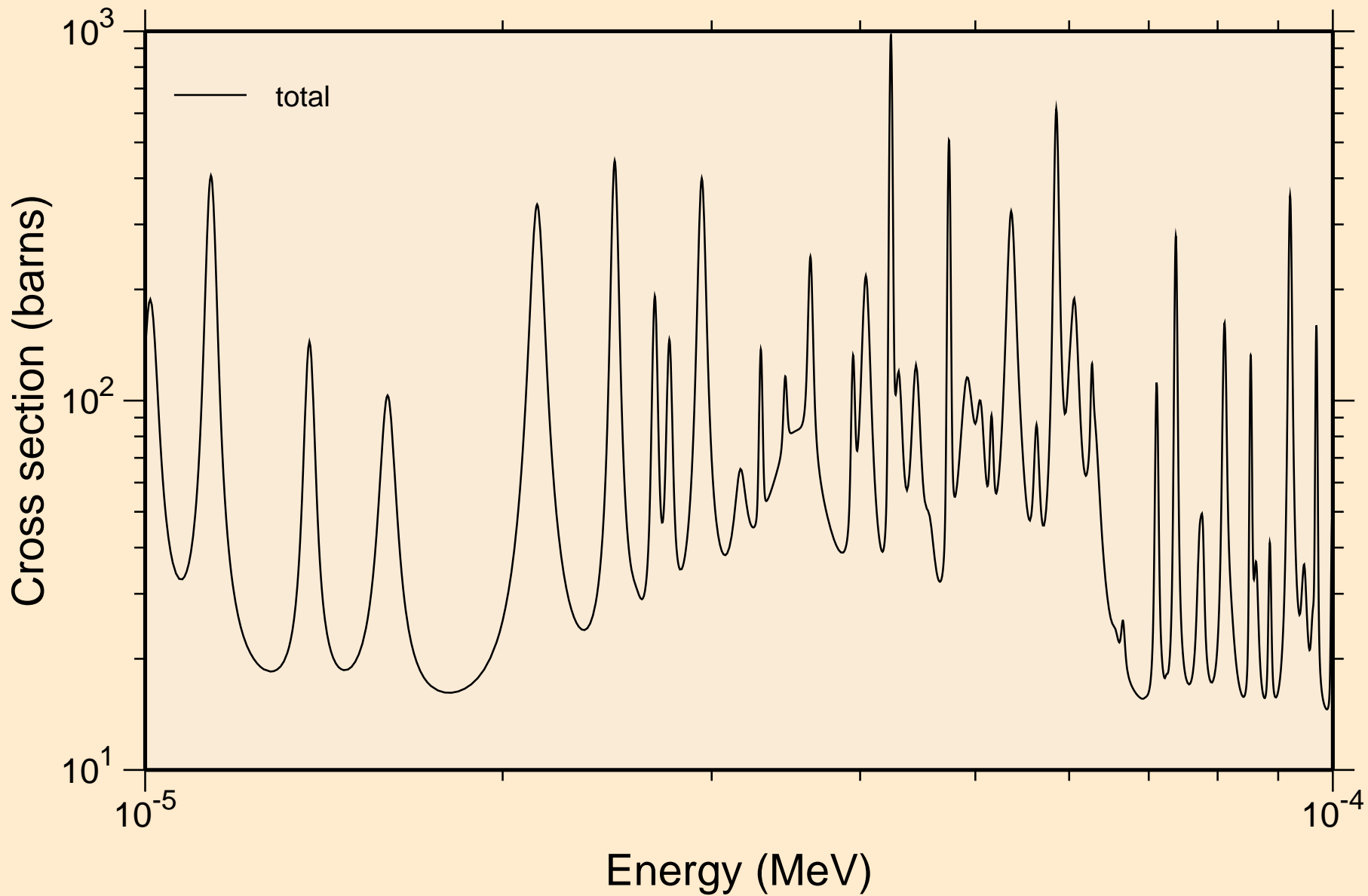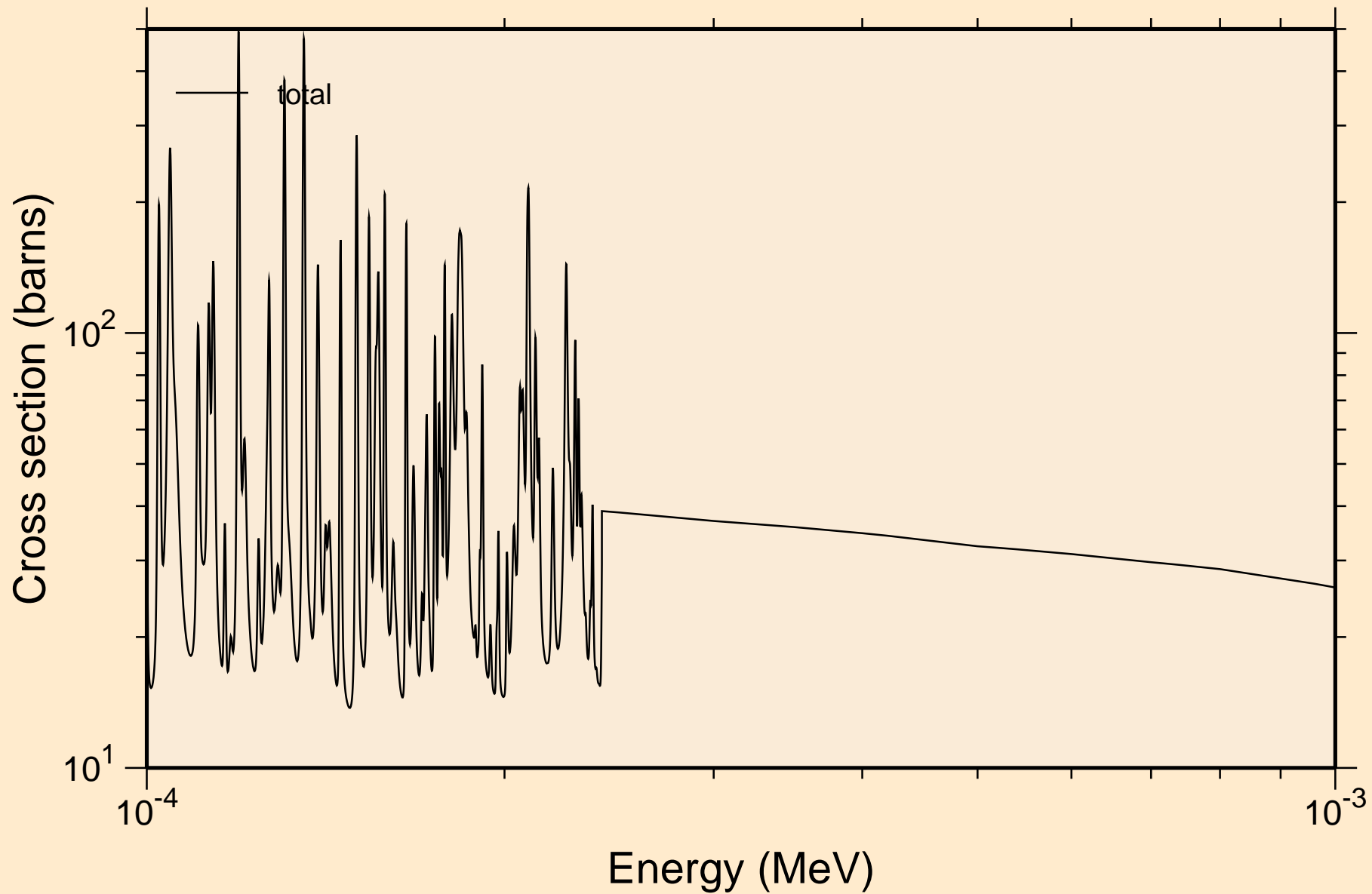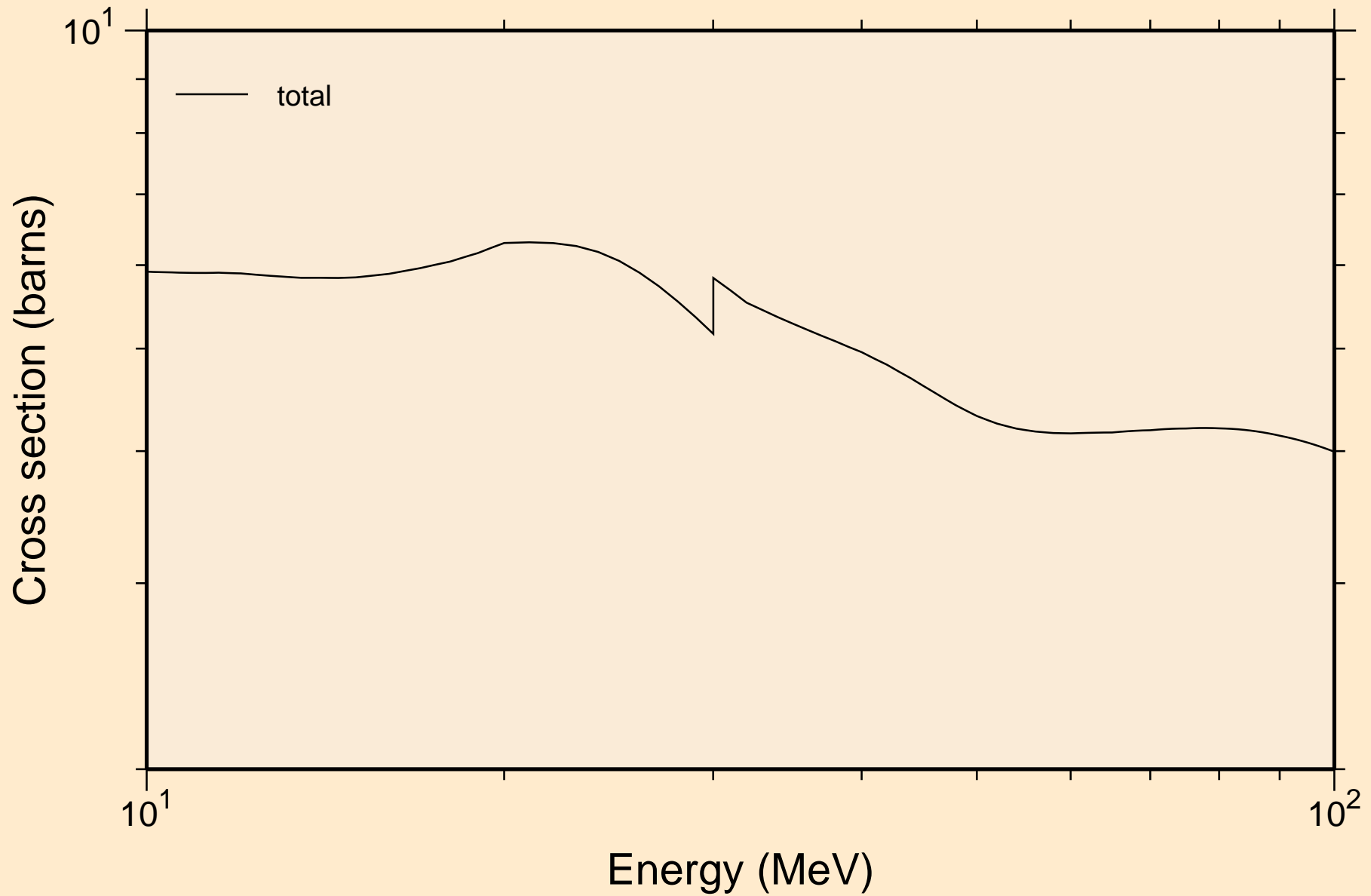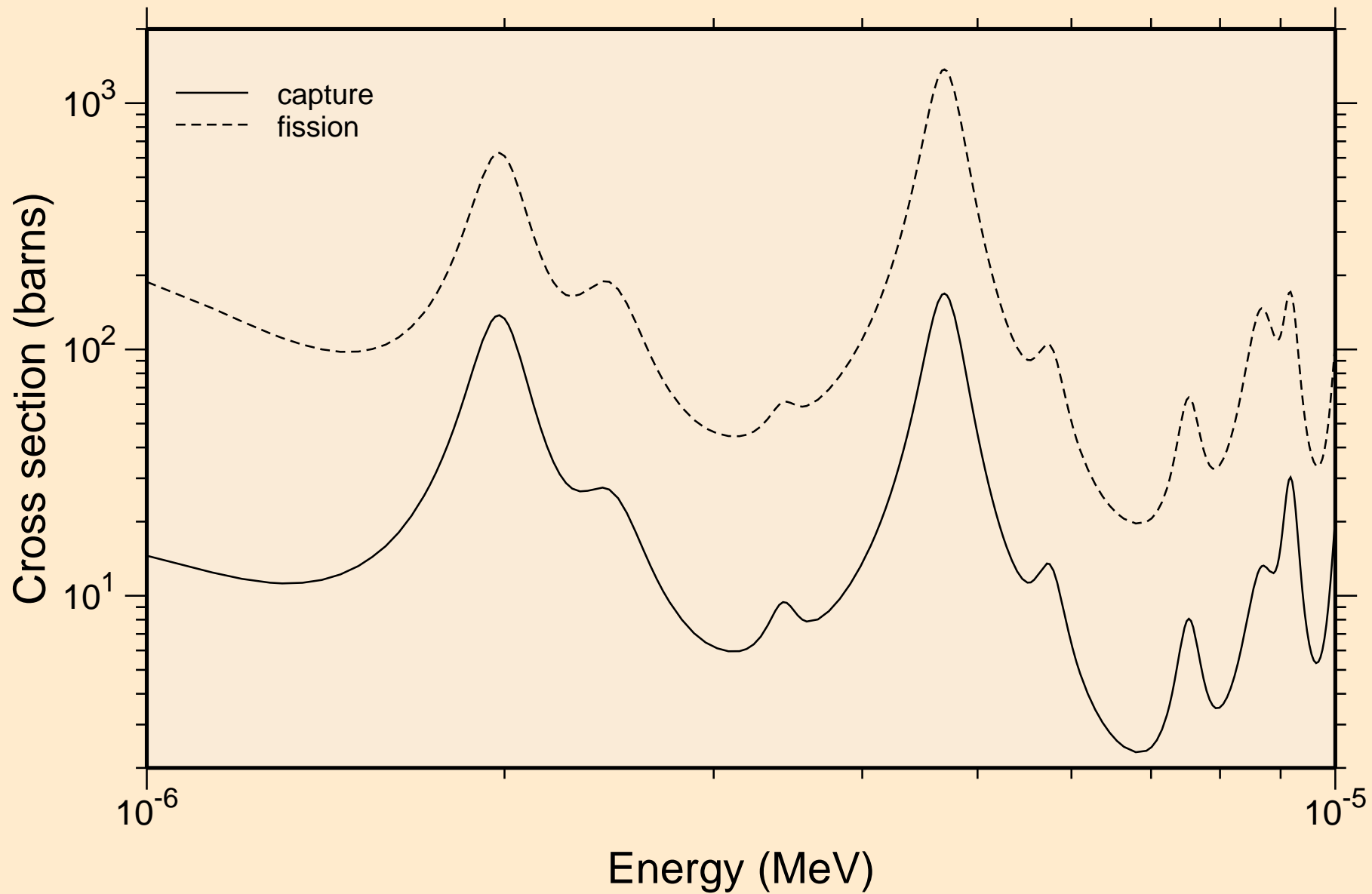
- total
- absorption
- elastic
- gamma production

CM245 NRG TENDL-2015, AKONING
resonance total cross section

CM245 NRG TENDL-2015, AKONING
resonance total cross section

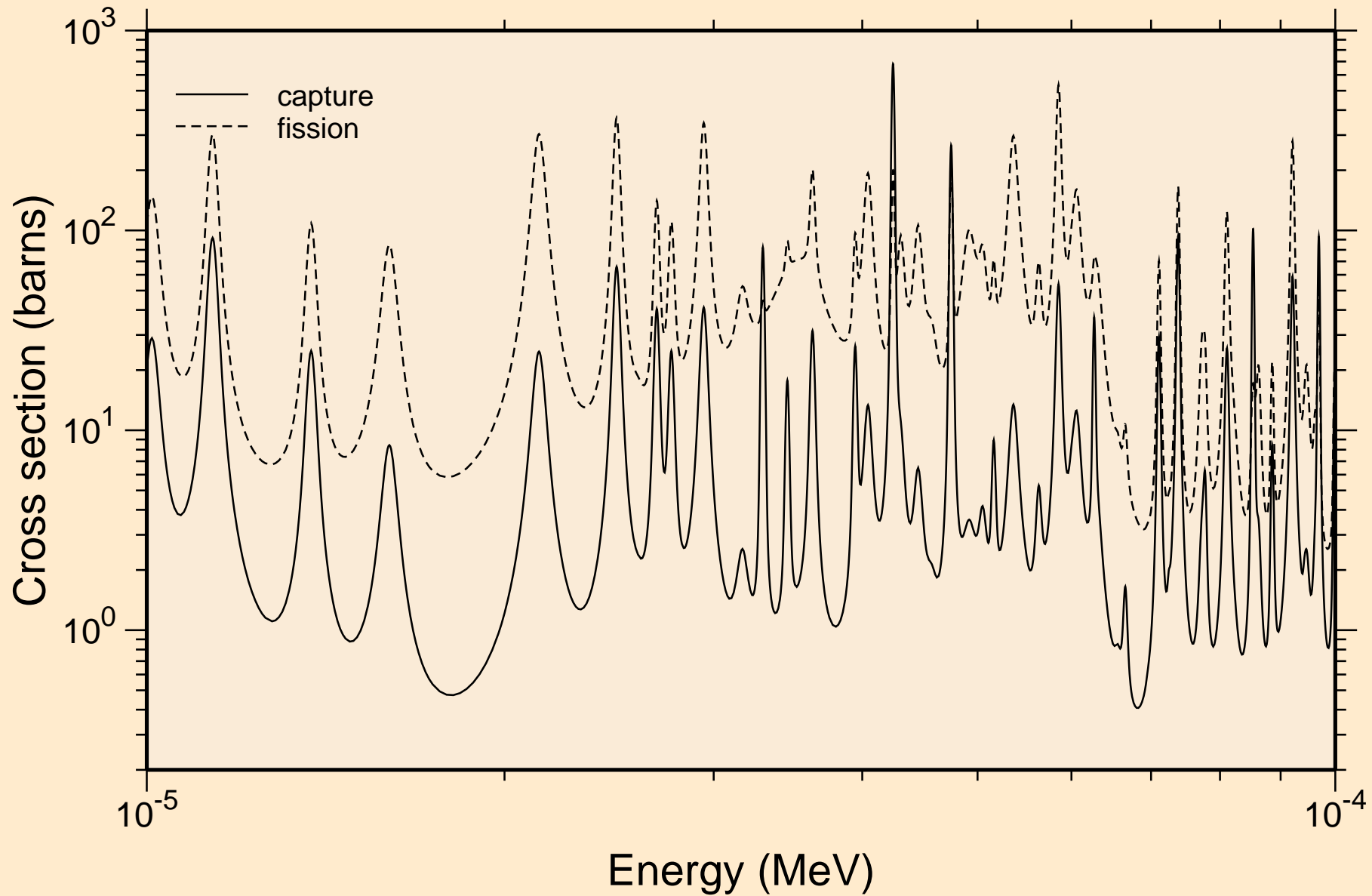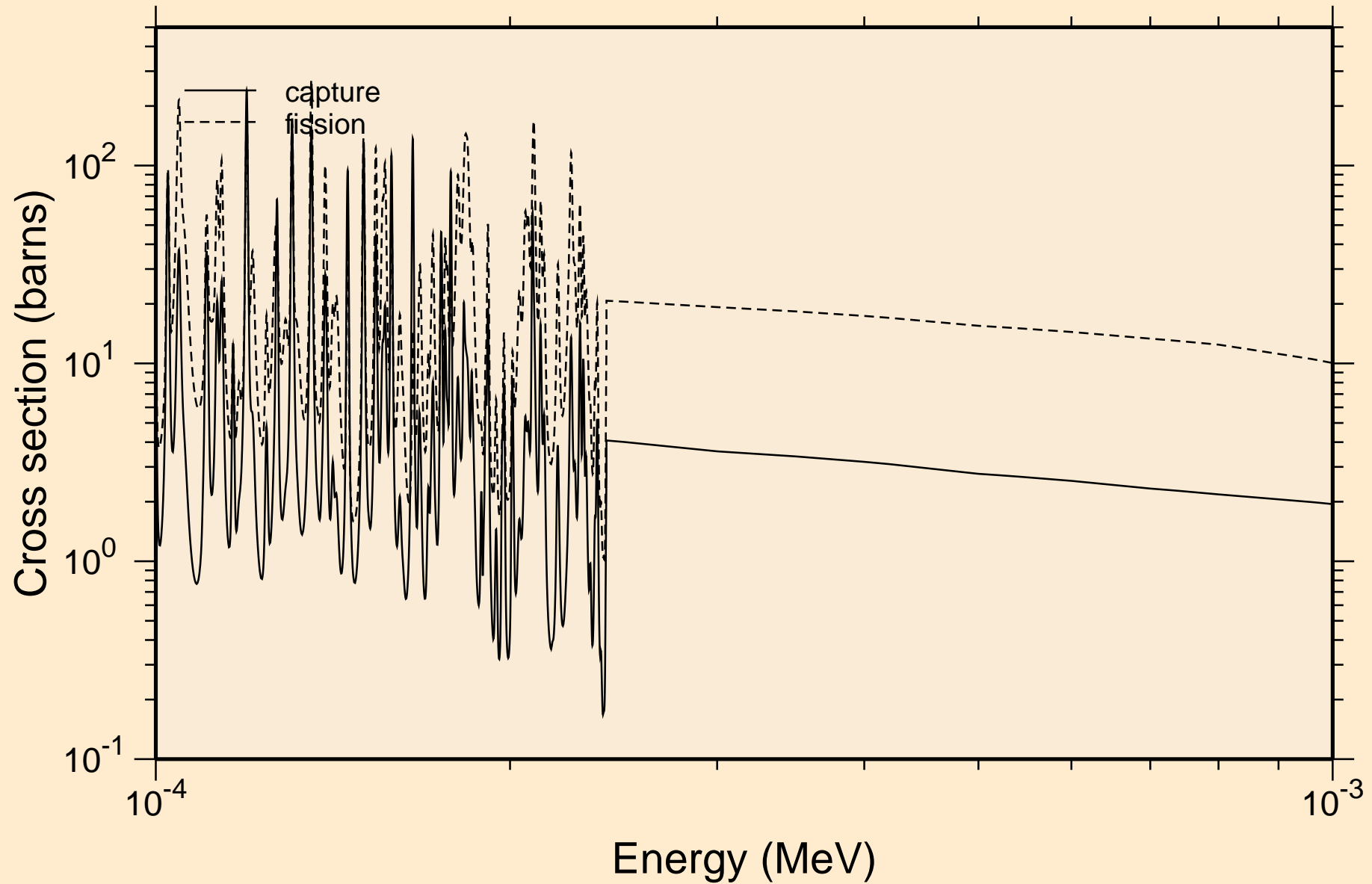CM245 NRG TENDL-2015, AKONING
resonance total cross section

CM245 NRG TENDL-2015, AKONING
resonance total cross section

CM245 NRG TENDL-2015, AKONING
resonance absorption cross sections

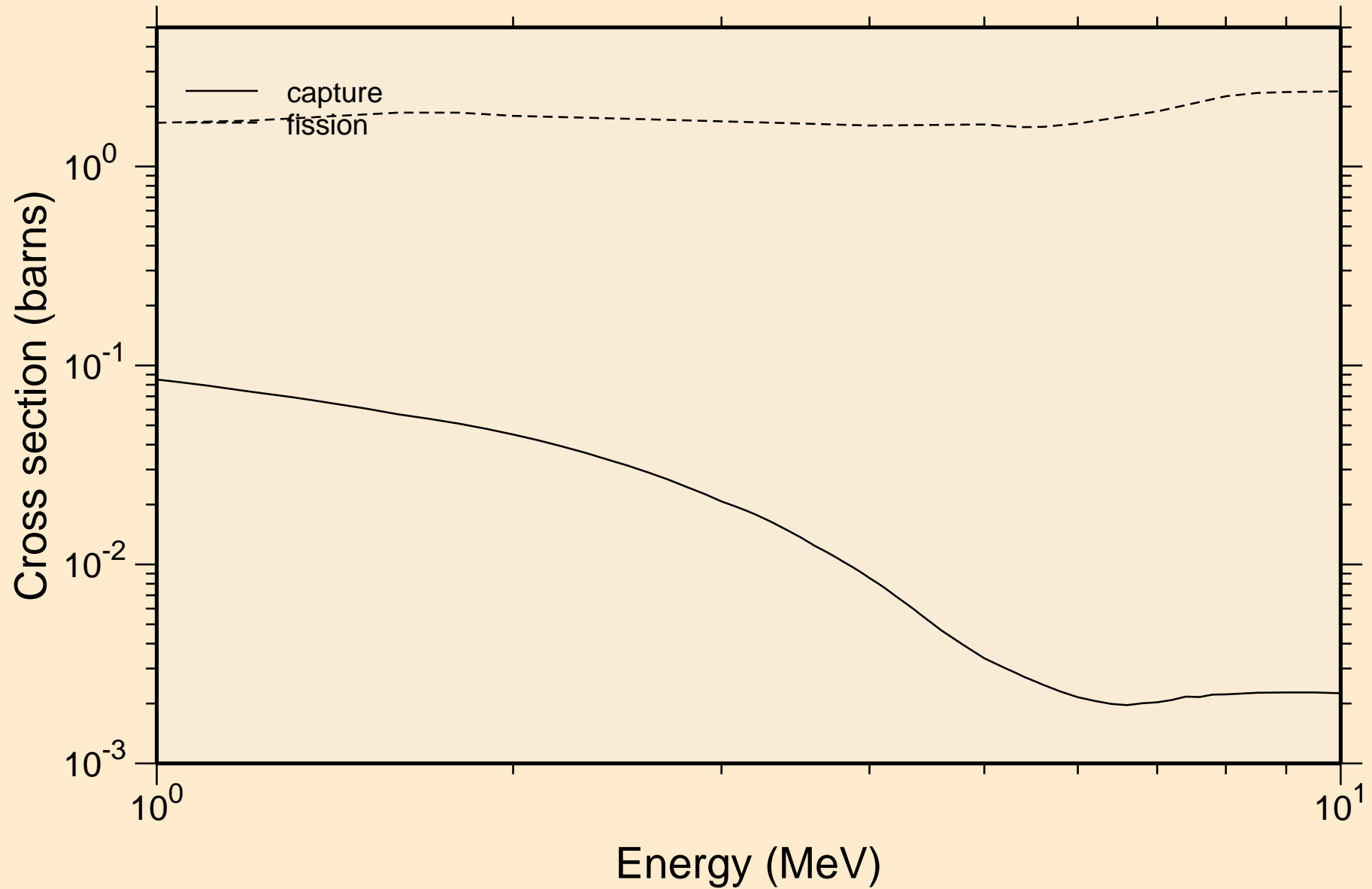CM245 NRG TENDL-2015, AKONING
resonance absorption cross sections

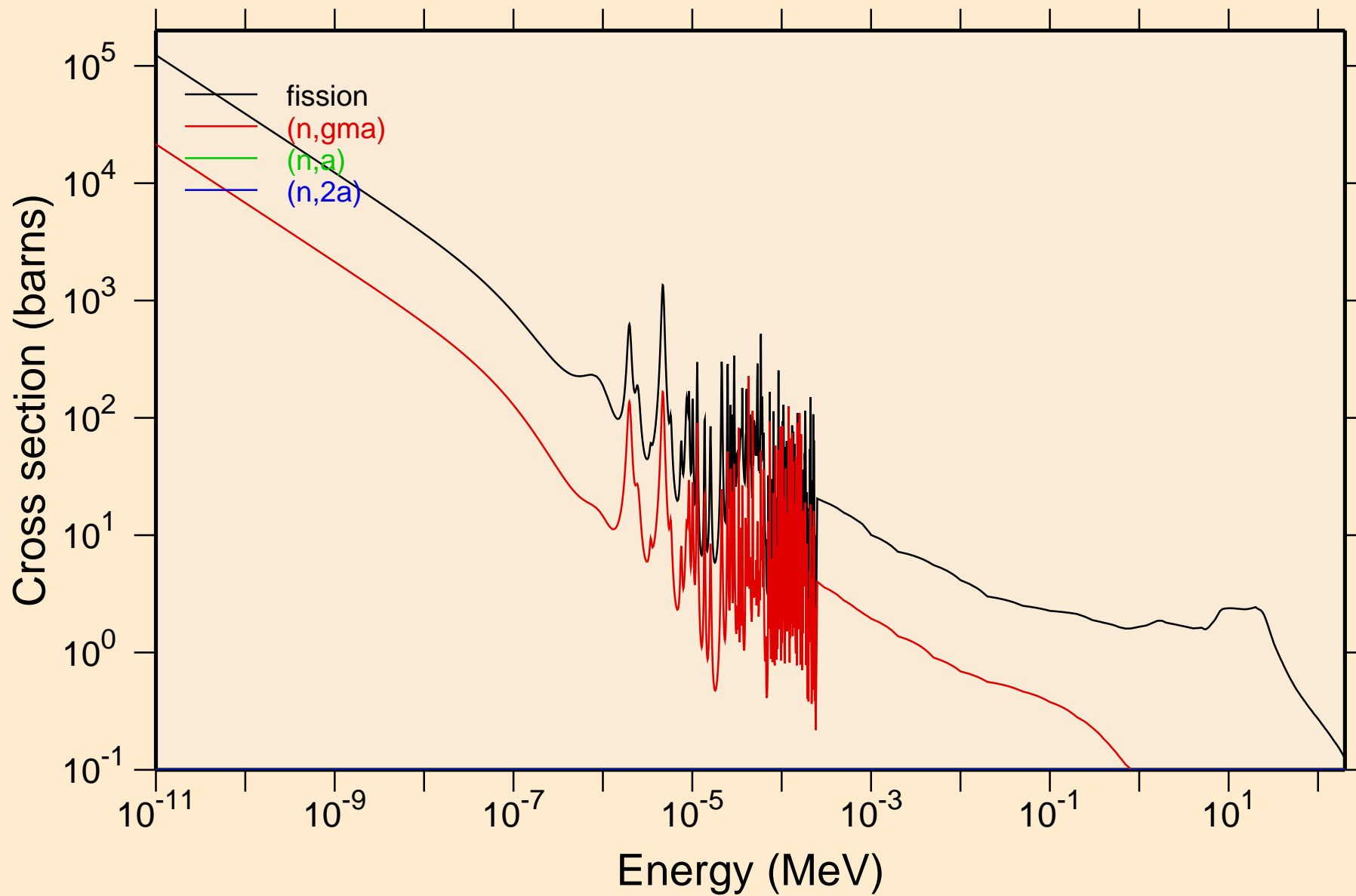CM245 NRG TENDL-2015, AKONING
resonance absorption cross sections
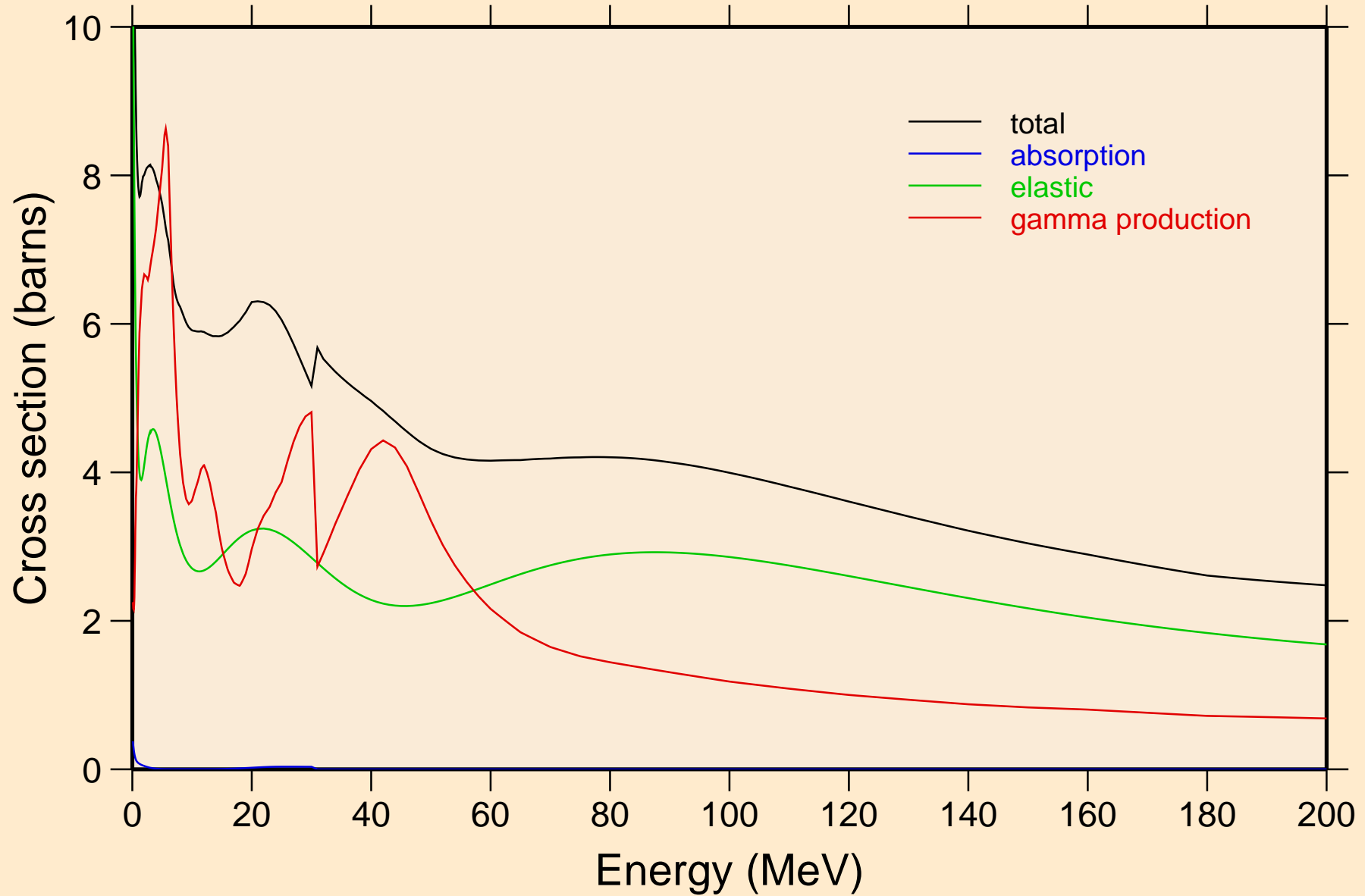
CM245 NRG TENDL-2015, AKONING
resonance absorption cross sections
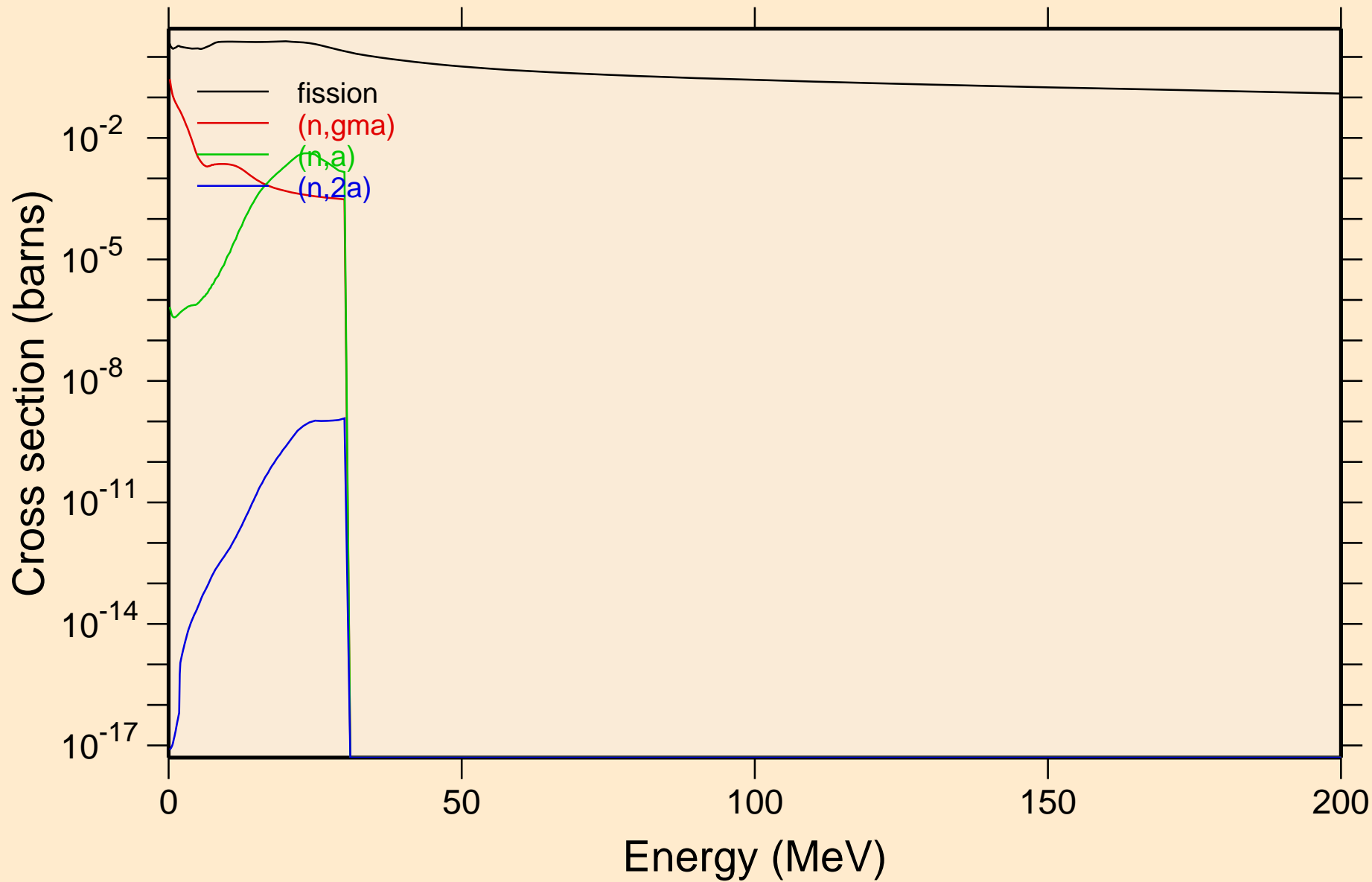
CM245 NRG TENDL-2015, AKONING
Non-threshold reactions

fission
(n,gma)
(n,a)
(n,2a)

CM245 NRG TENDL-2015, AKONING
Principal cross sections

total
absorption
elastic
gamma production

CM245 NRG TENDL-2015, AKONING
Non-threshold reactions

CM245 NRG TENDL-2015, AKONING
Inelastic levels

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

CM245 NRG TENDL-2015, AKONING
Inelastic levels

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

CM245 NRG TENDL-2015, 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

CM245 NRG TENDL-2015, AKONING
Inelastic levels

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

CM245 NRG TENDL-2015, AKONING
Inelastic levels

- (n,n*21)
- (n,n*22)
- (n,n*23)
- (n,n*24)
- (n,n*25)

Cross section (barns) vs Energy (MeV)

CM245 NRG TENDL-2015, AKONING
Inelastic levels

(n,n*26)
(n,n*27)
(n,n*28)
(n,n*29)

CM245 NRG TENDL-2015, AKONING
Threshold reactions

Legend:
- (n,x) — black
- (n,2nd) — red
- (n,2n) — green
- (n,3n) — blue
- (n,n*)a — magenta

X-axis: Energy (MeV)
Y-axis: Cross section (barns)

CM245 NRG TENDL-2015, AKONING
Threshold reactions

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

Y-axis: Cross section (barns), *10⁻³
X-axis: Energy (MeV)

CM245 NRG TENDL-2015, AKONING
Threshold reactions

Legend:
- (n,n*)d
- (n,n*)t
- (n,n*)he3
- (n,4n)
- (n,2np)

X-axis: Energy (MeV)
Y-axis: Cross section (barns)

CM245 NRG TENDL-2015, AKONING
Threshold reactions

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

Cross section (barns) vs Energy (MeV)

CM245 NRG TENDL-2015, AKONING
Threshold reactions

Legend:
- (n,d) — black
- (n,t) — red
- (n,he3) — green
- (n,2p) — blue
- (n,pa) — magenta

Y-axis: Cross section (barns), ×10⁻³

X-axis: Energy (MeV)

CM245 NRG TENDL-2015, AKONING
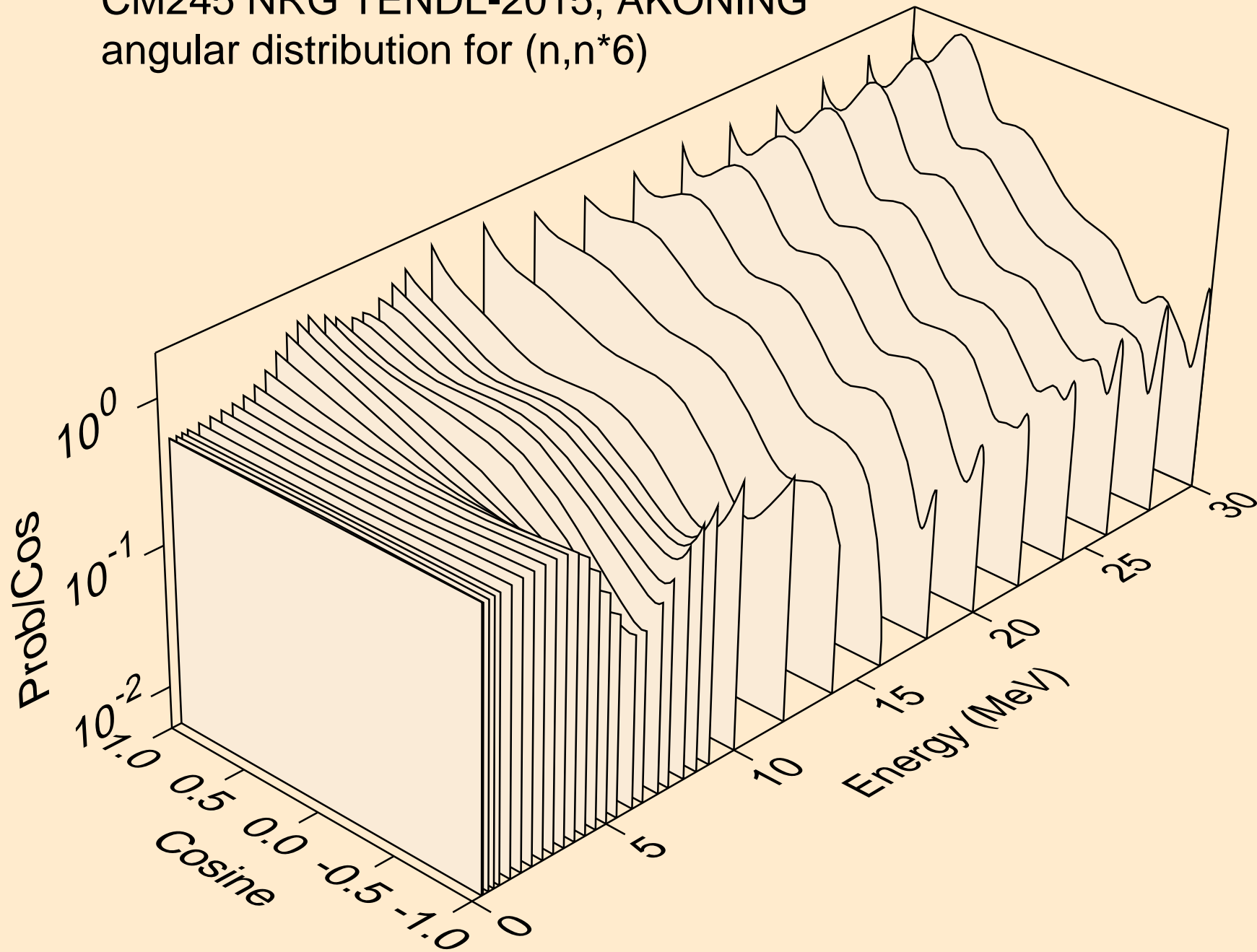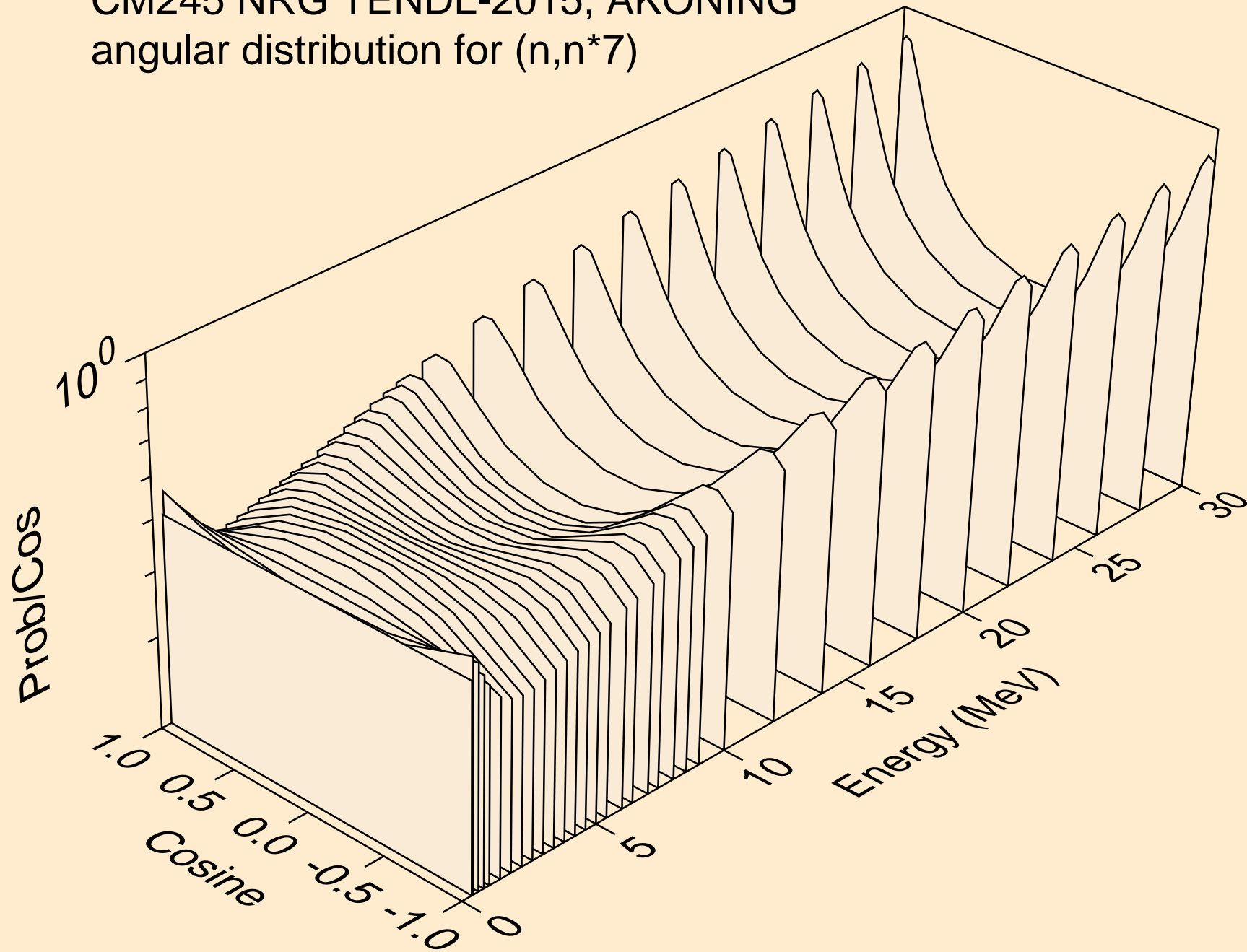Threshold reactions

(n,da)

Cross section (barns)

Energy (MeV)

CM245 NRG TENDL-2015, AKONING
angular distribution for elastic

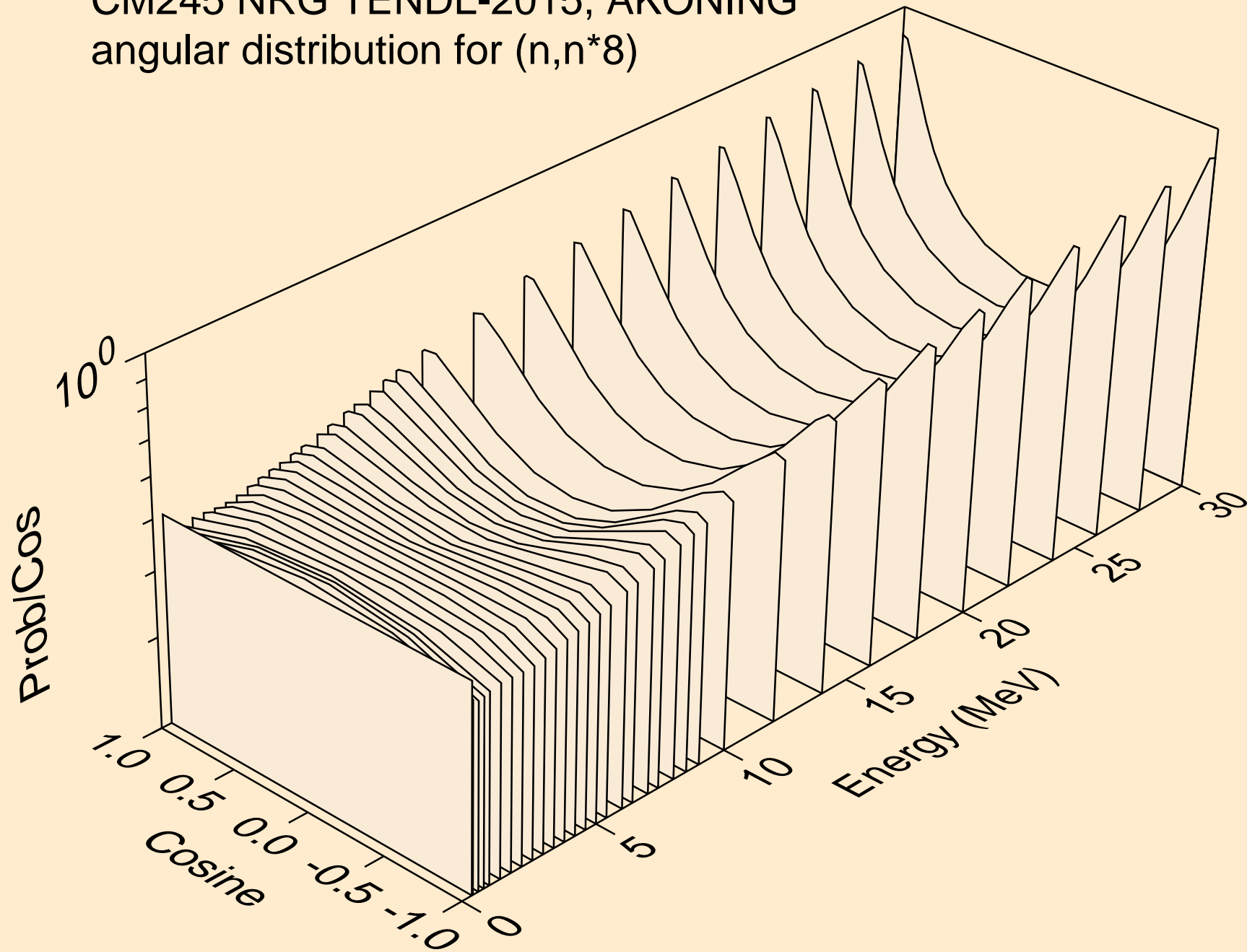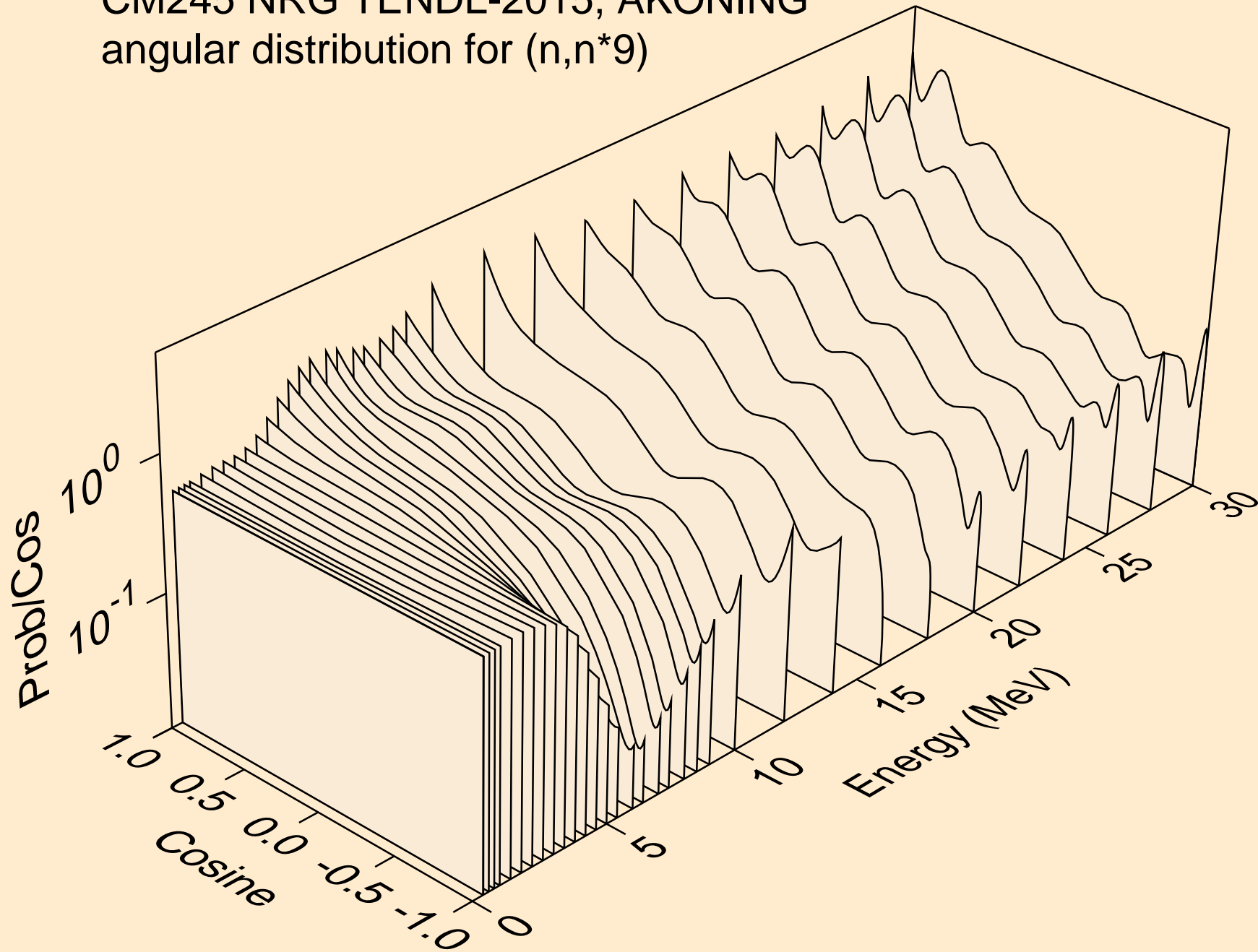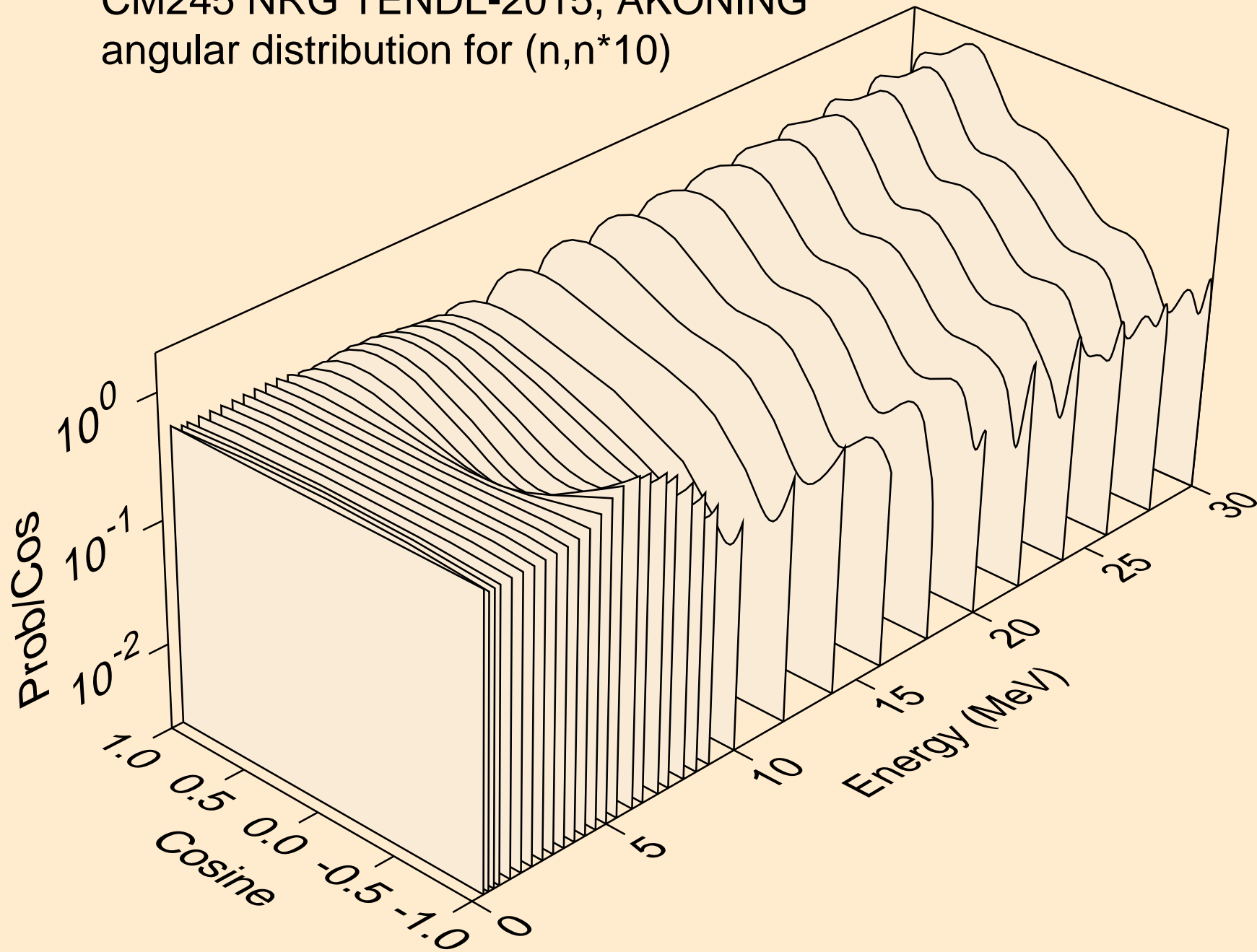CM245 NRG TENDL-2015, AKONING
angular distribution for elastic

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*1)
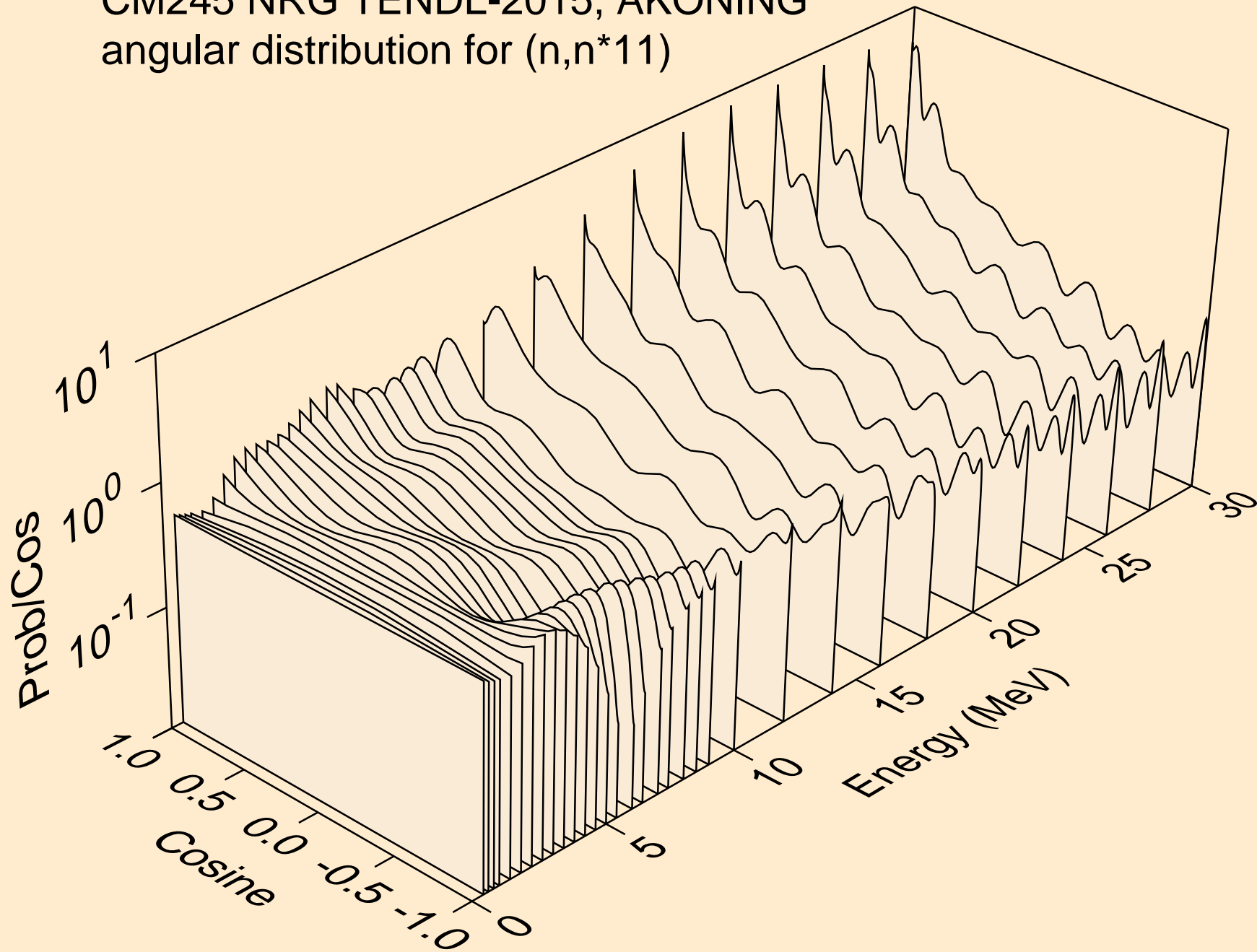
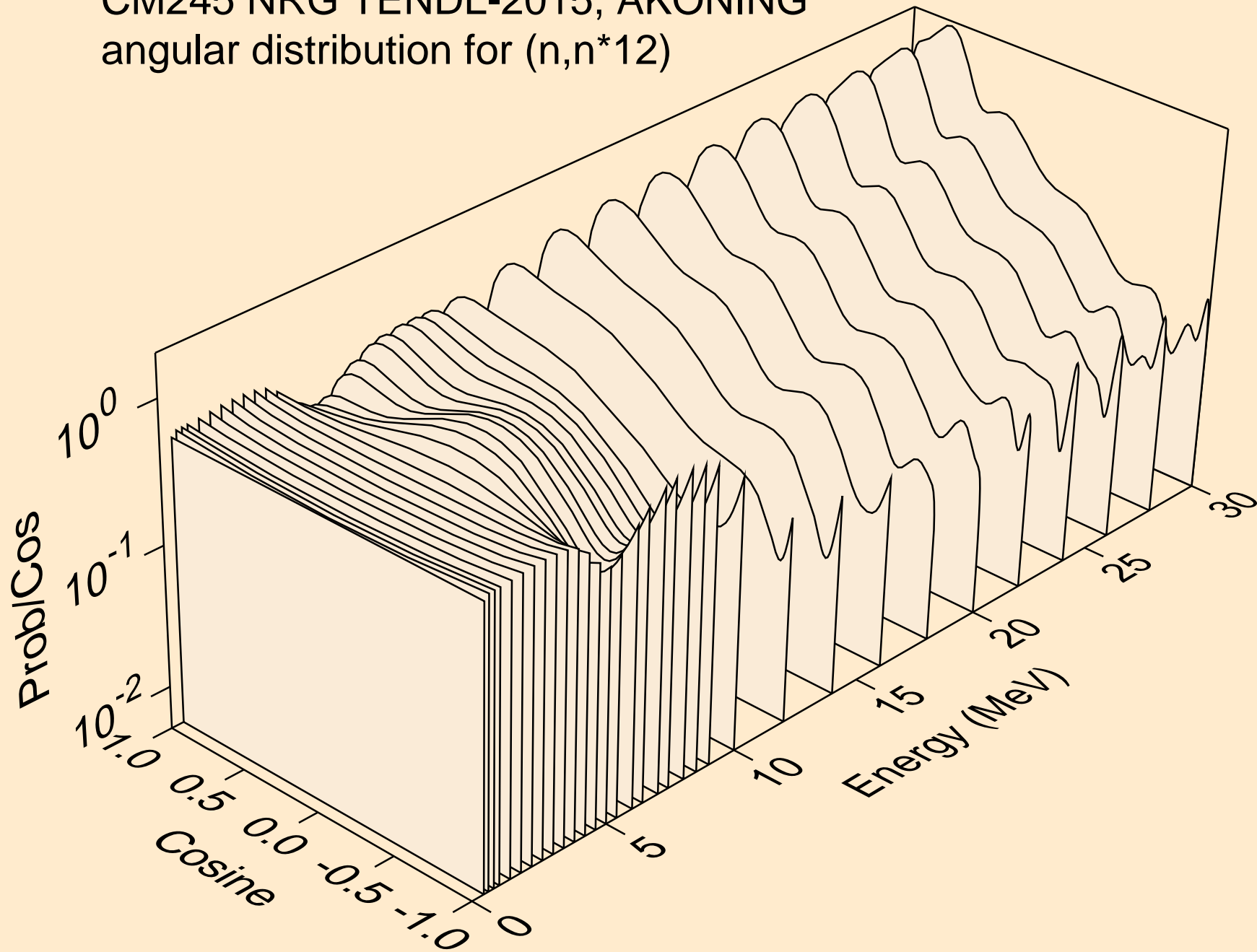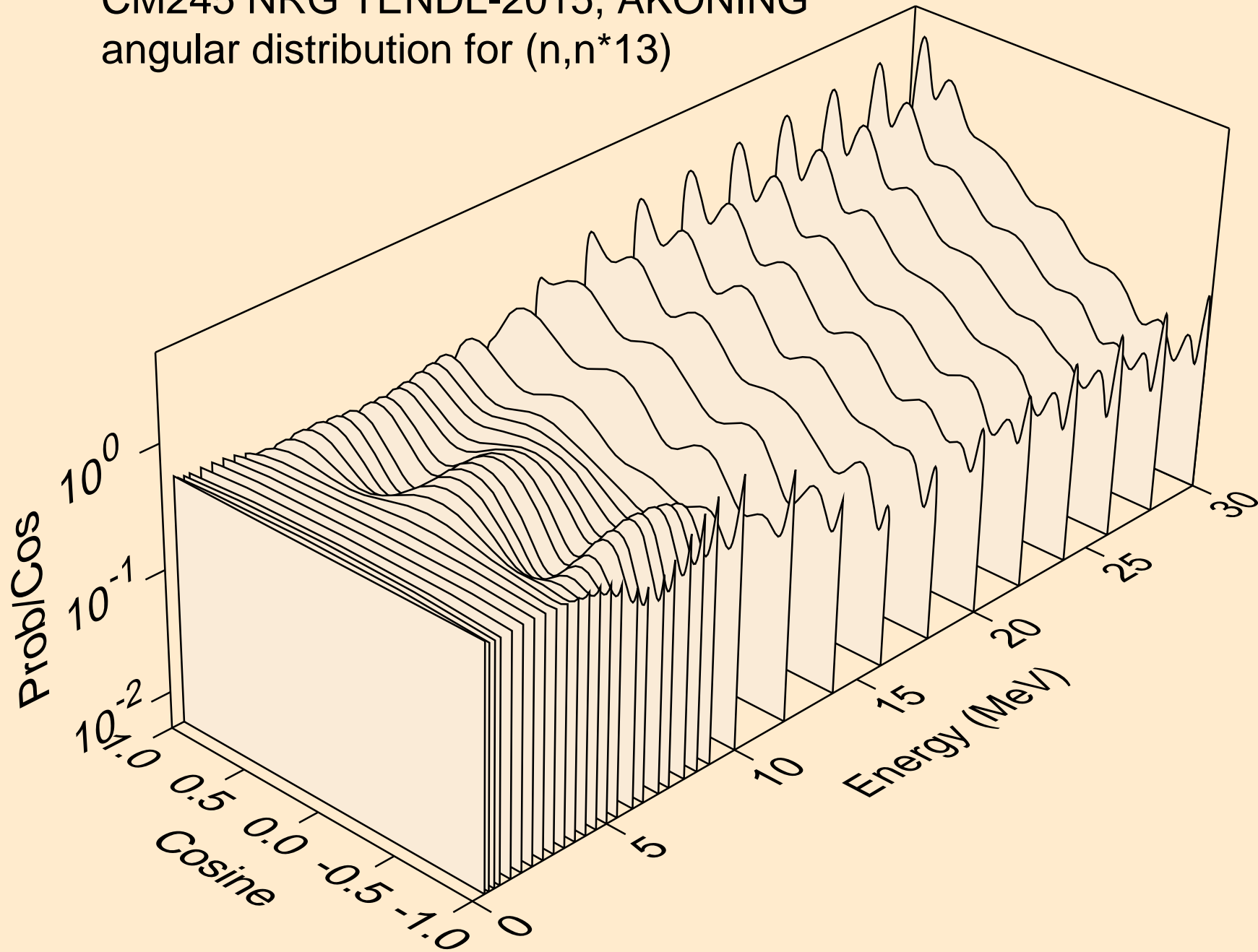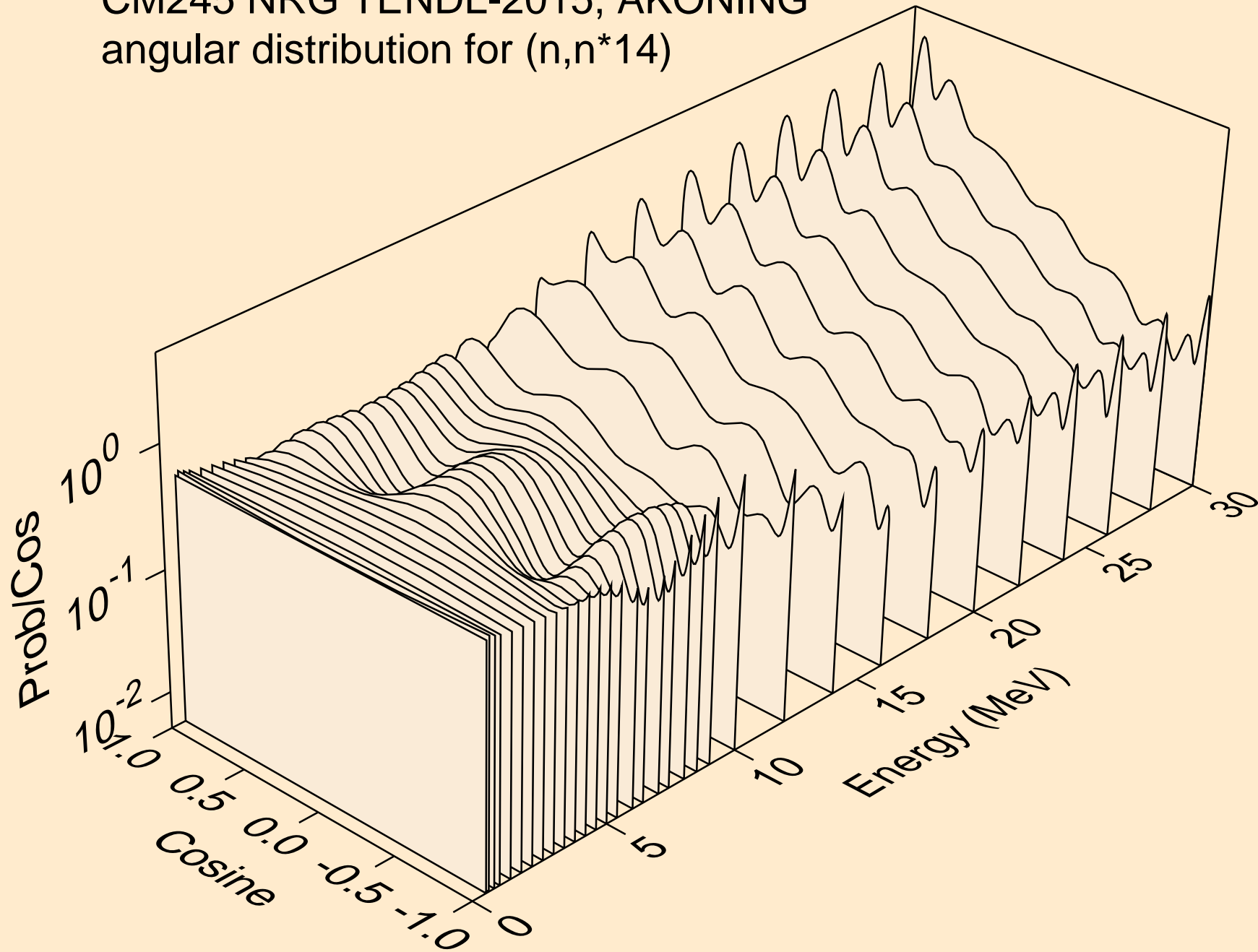CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*2)

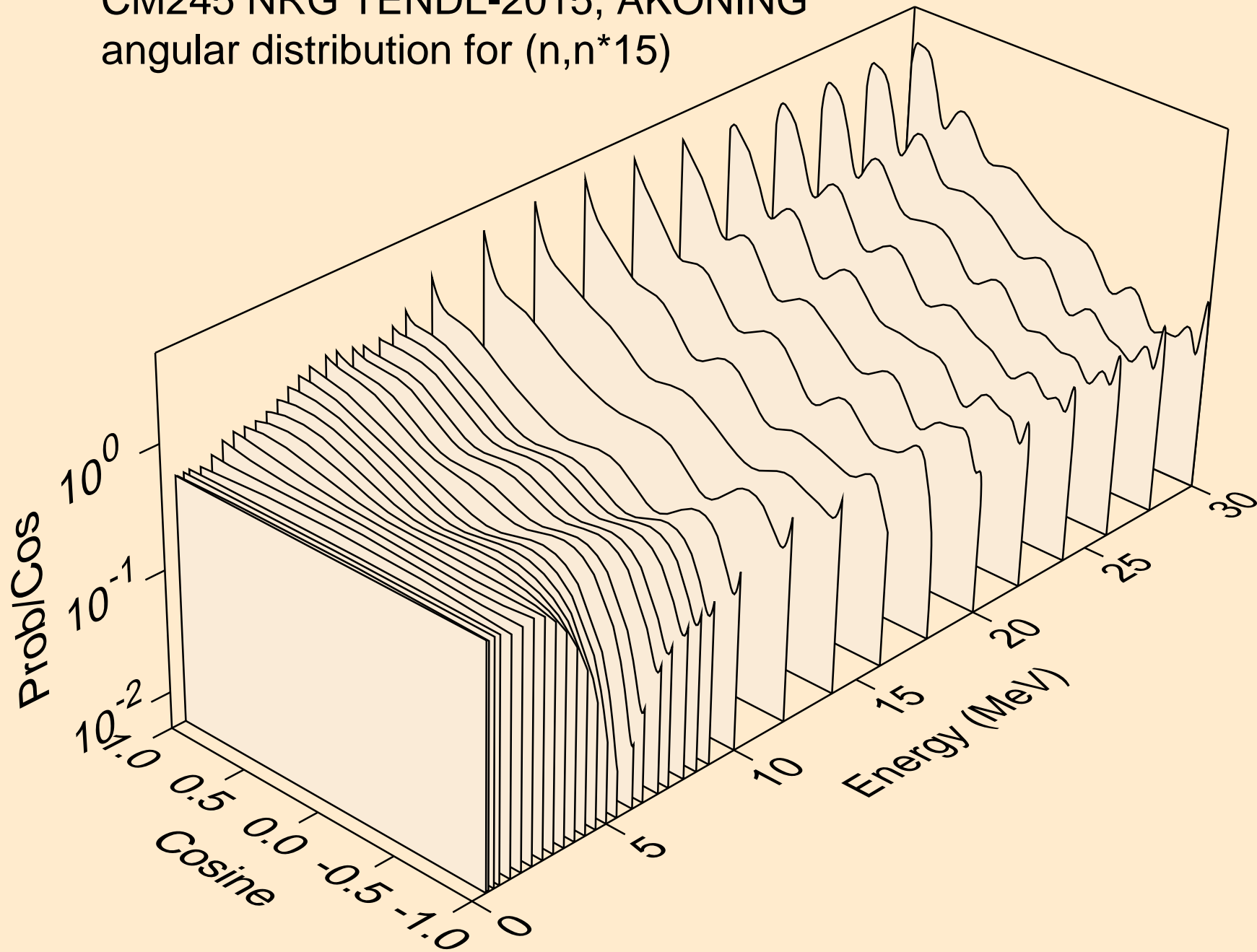CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*3)

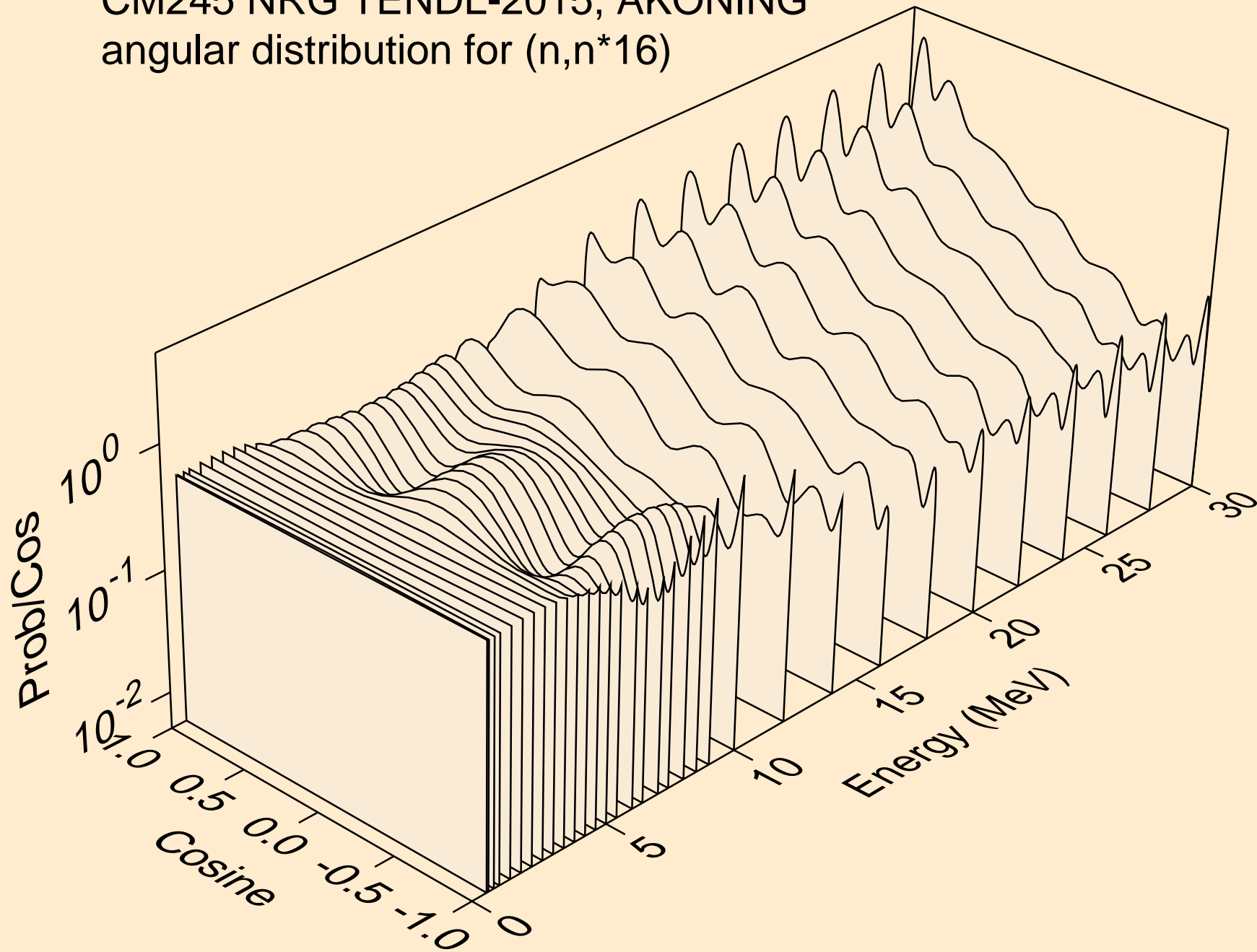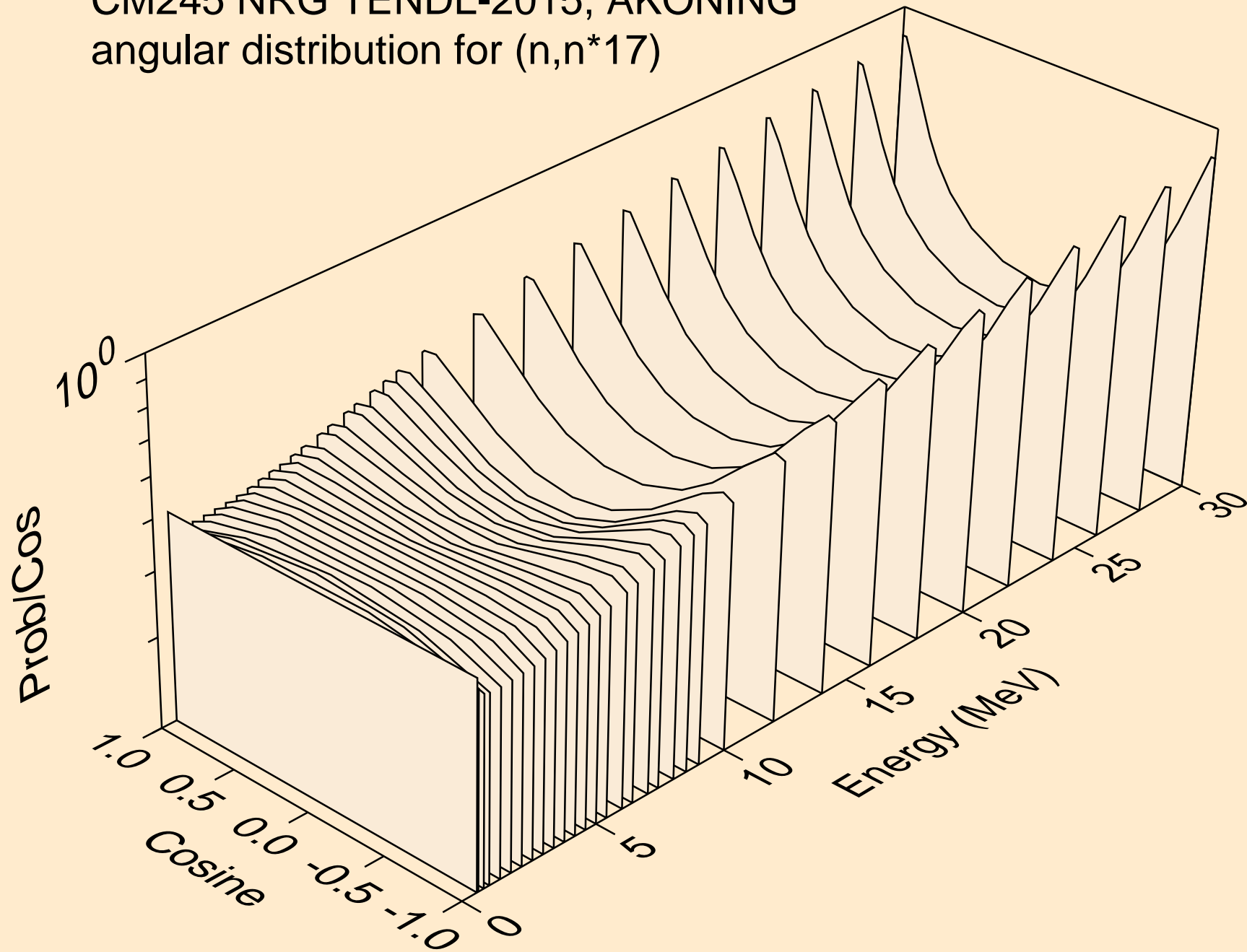CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*4)

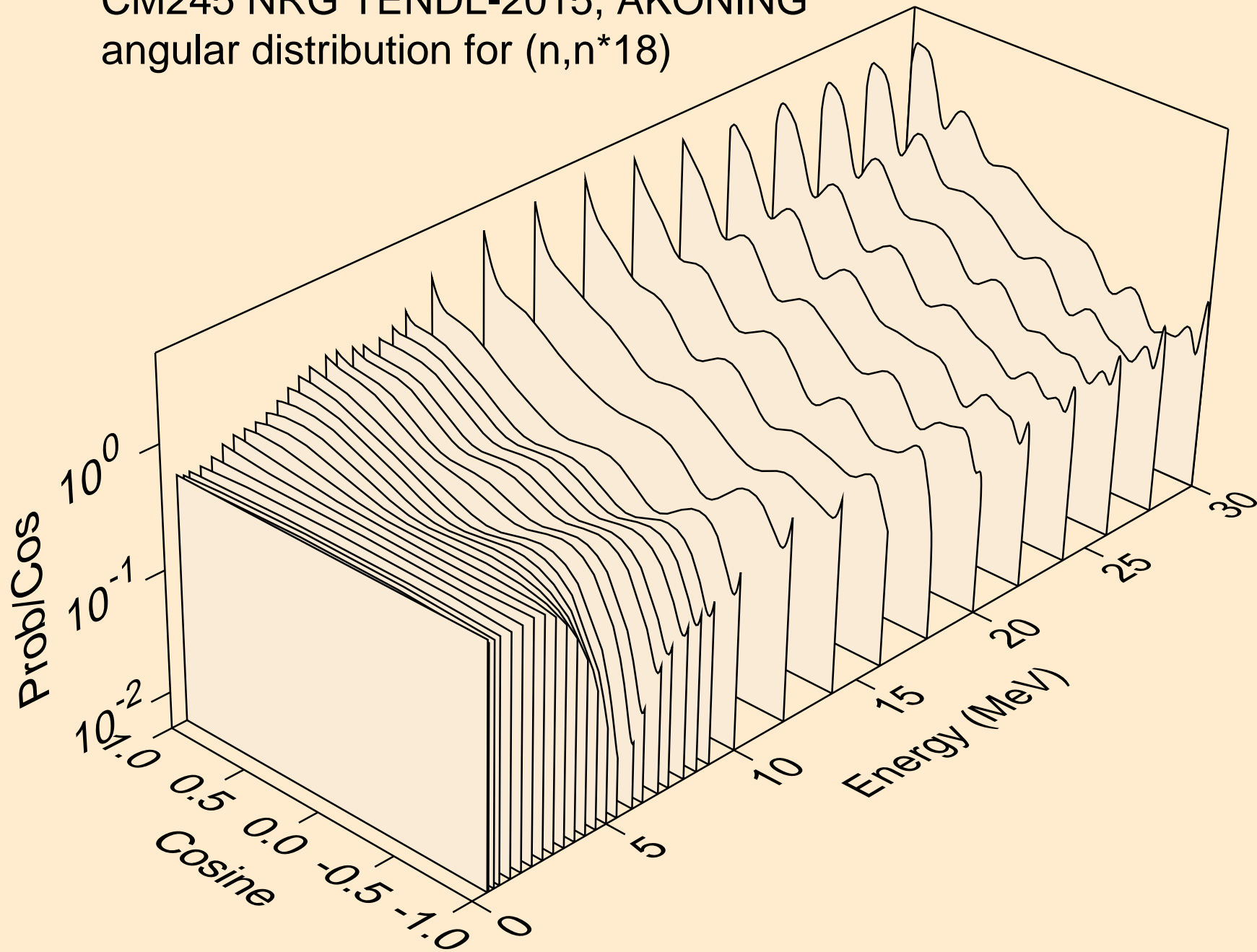CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*5)

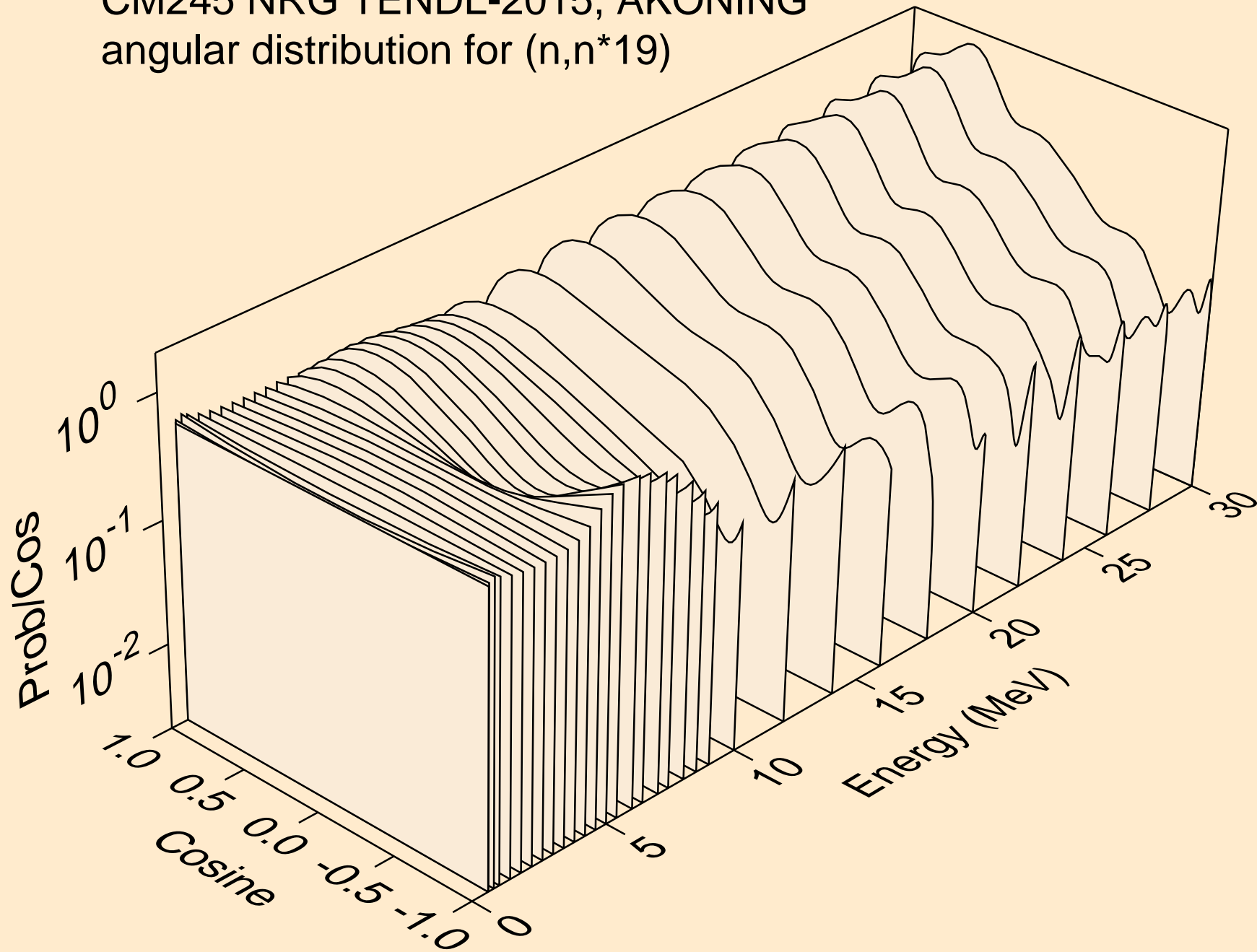CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*6)

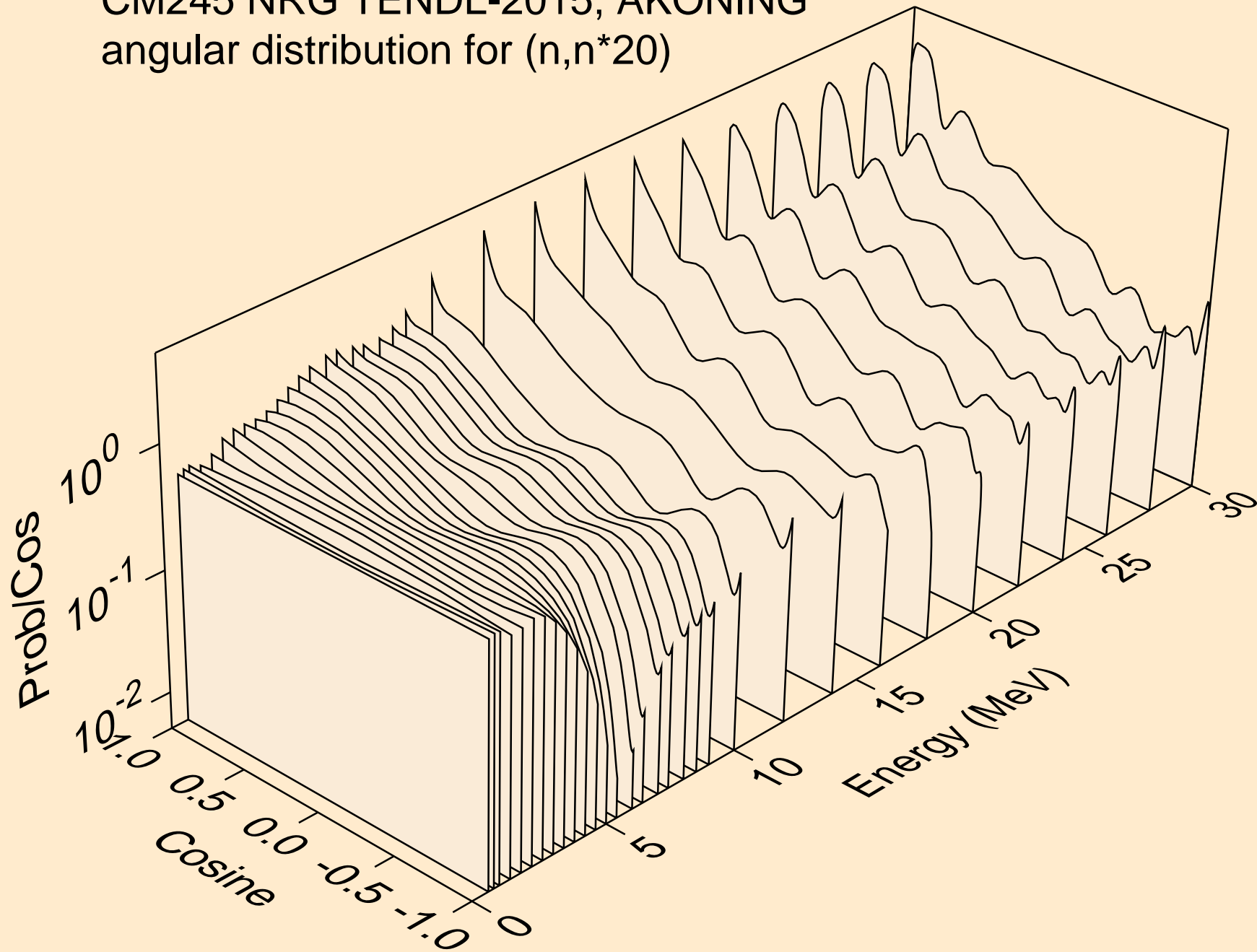CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*7)

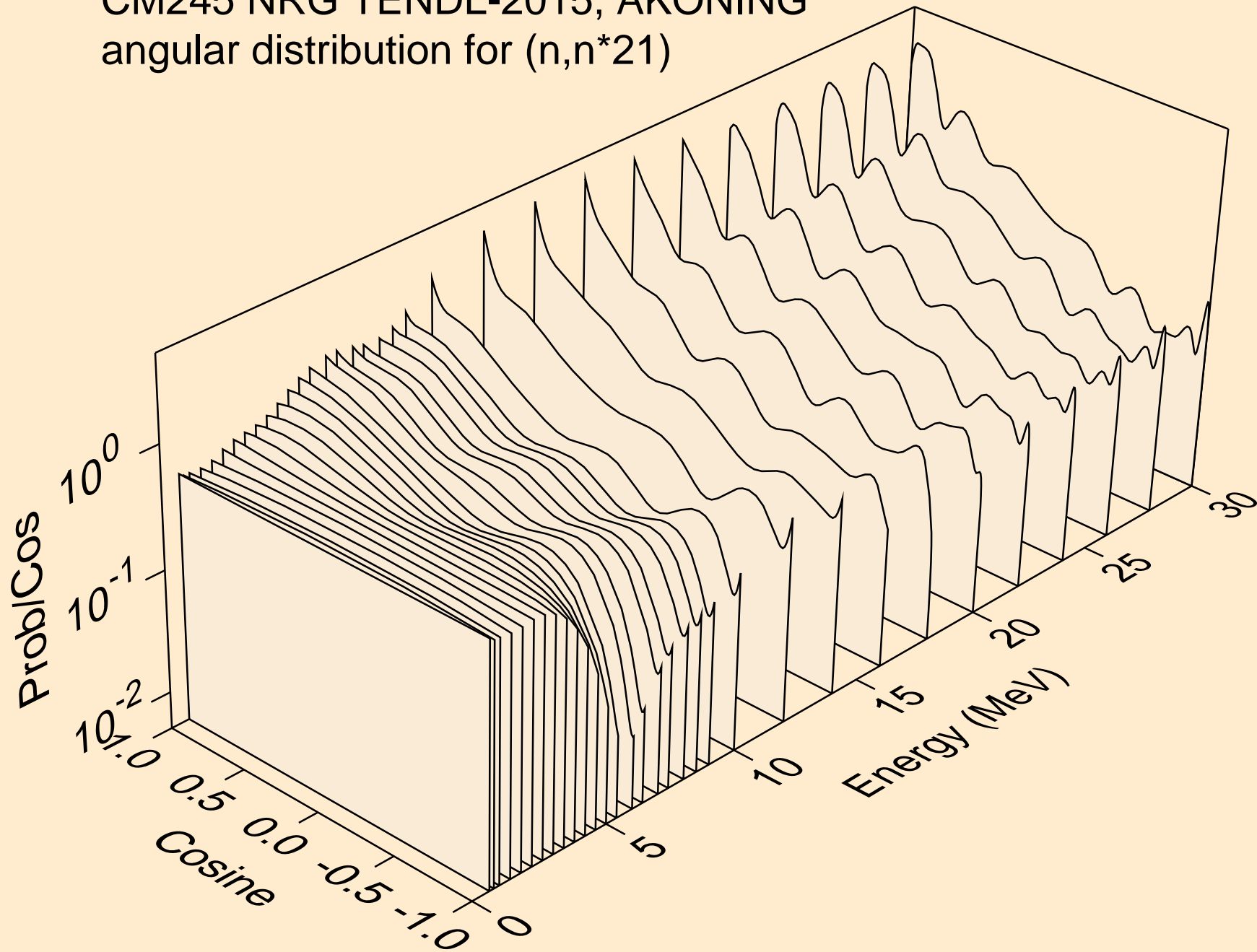CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*8)

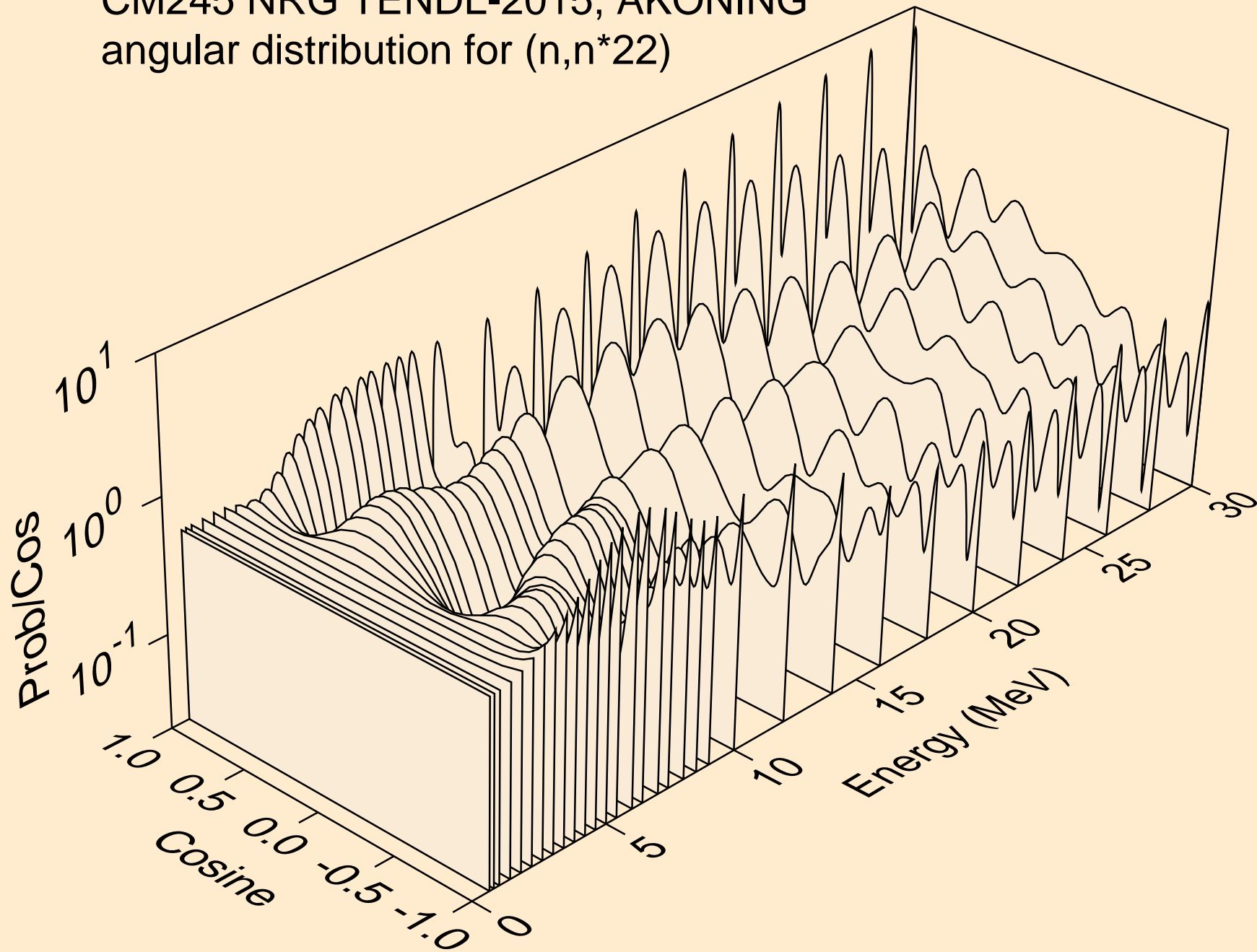CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*9)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*10)

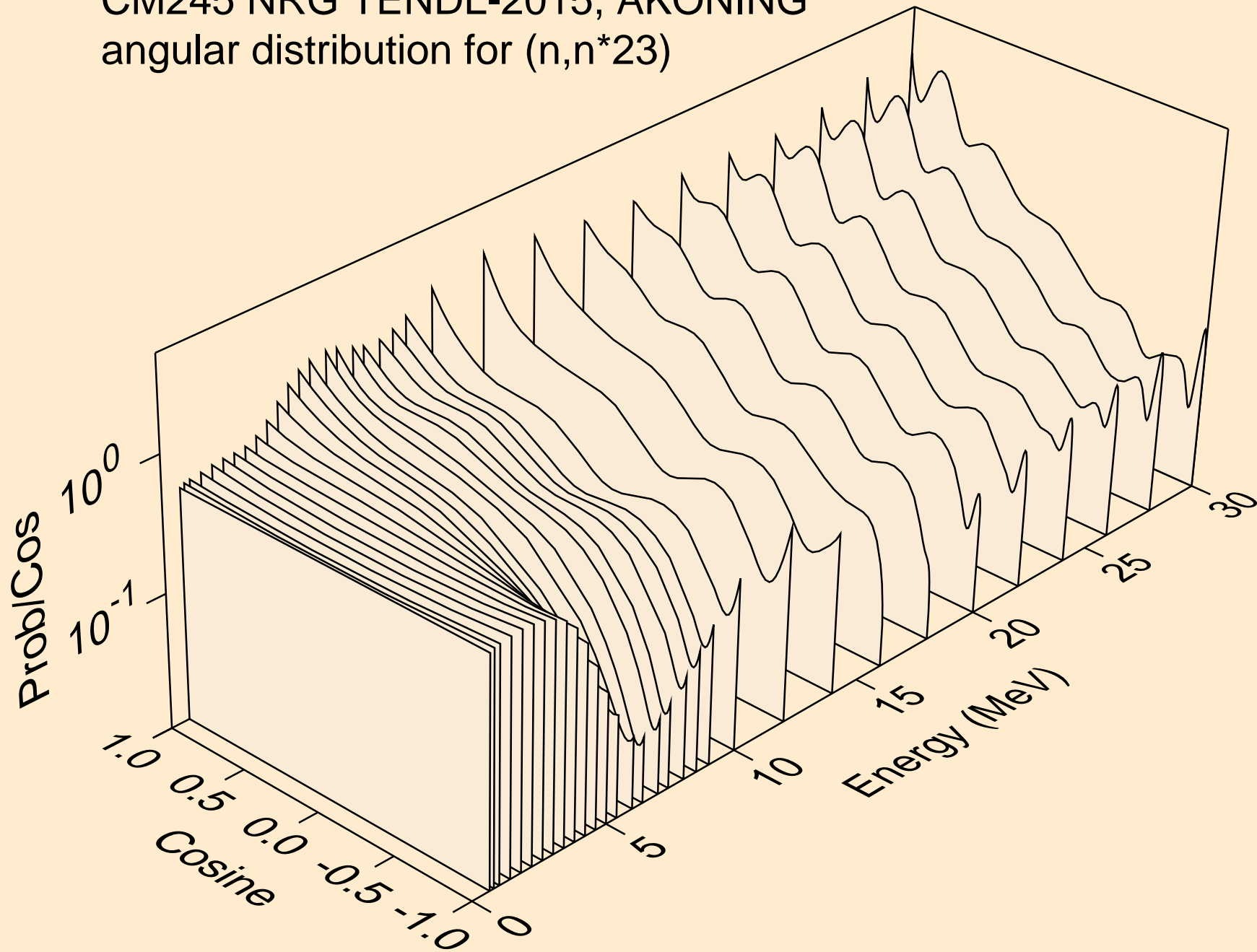CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*11)

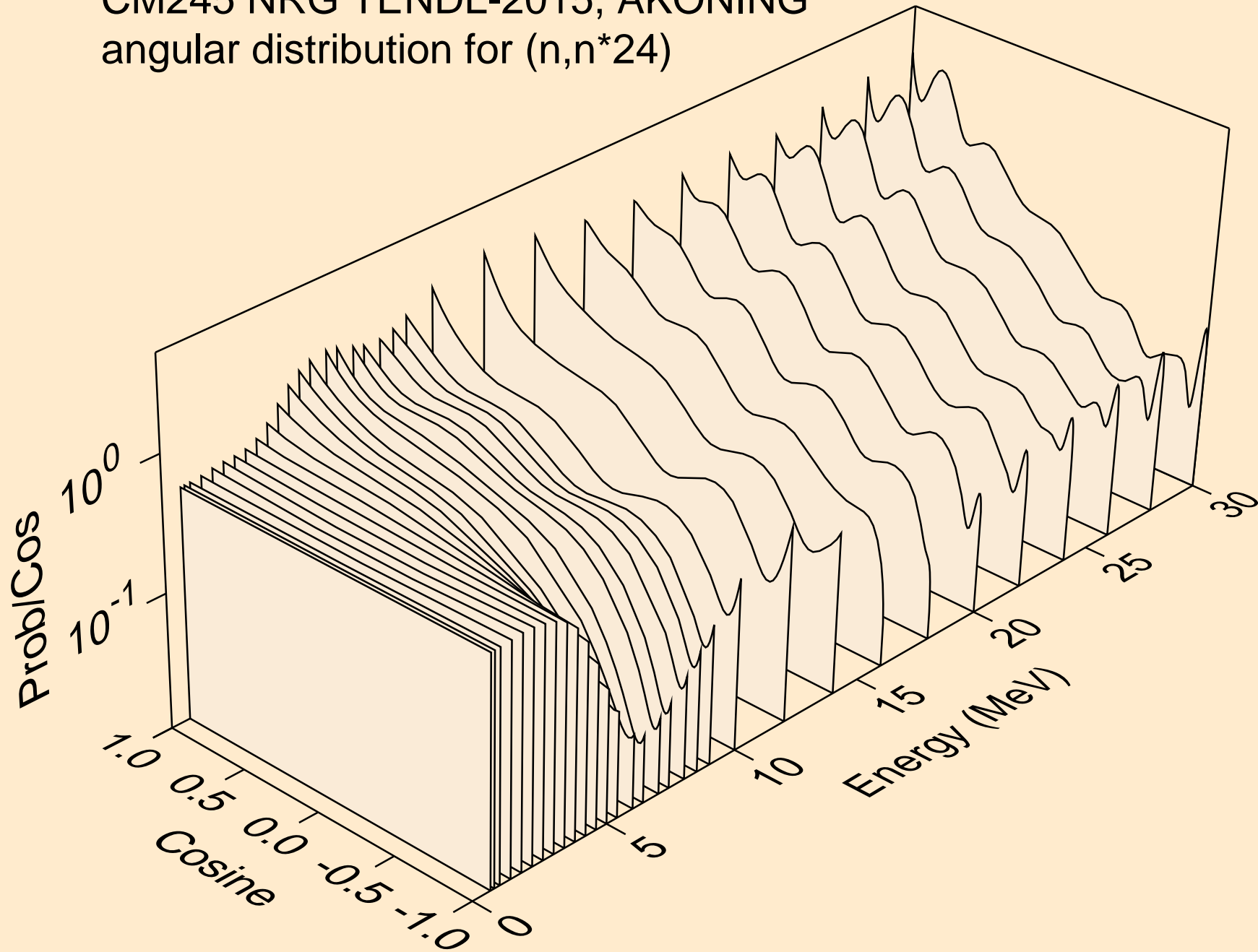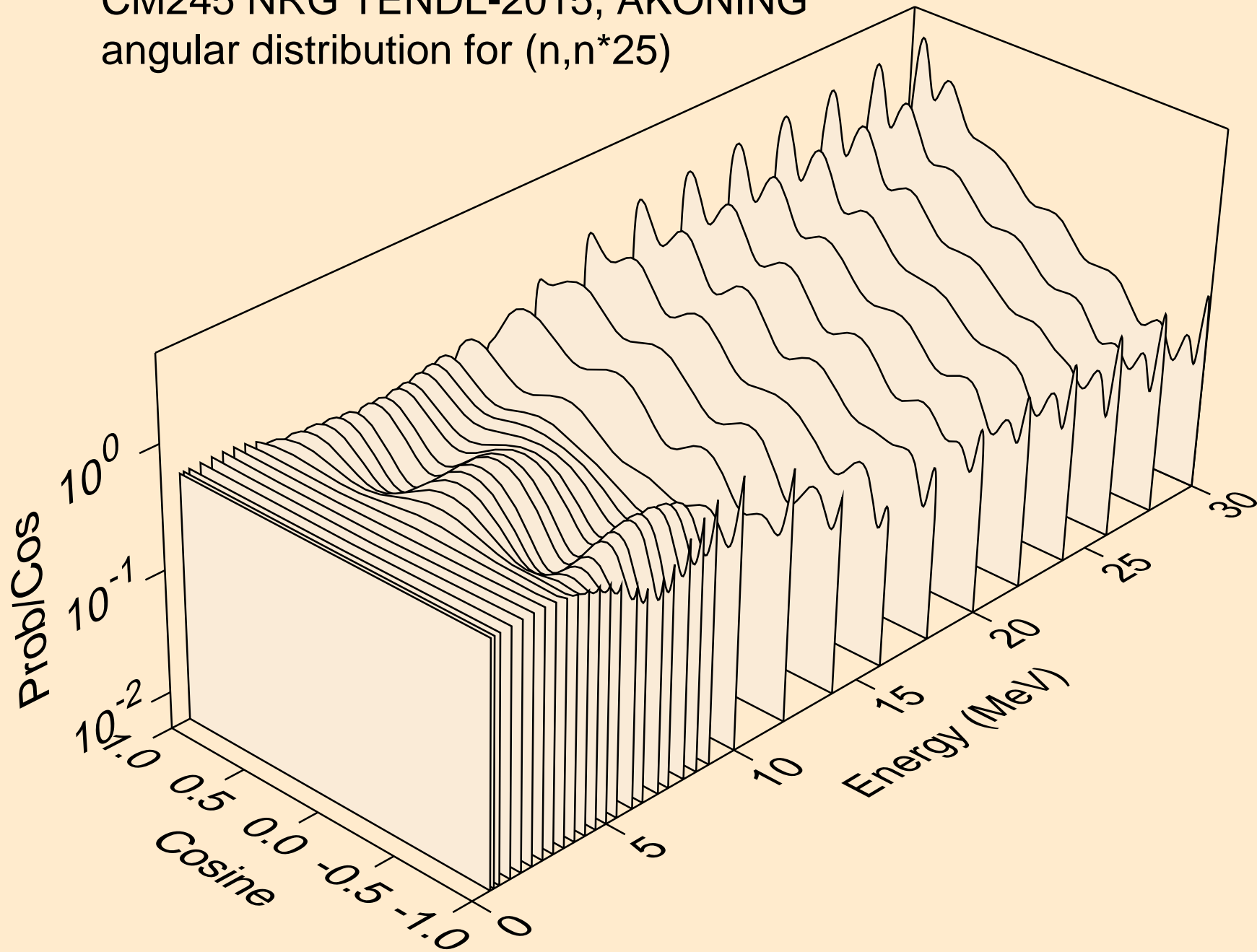CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*12)

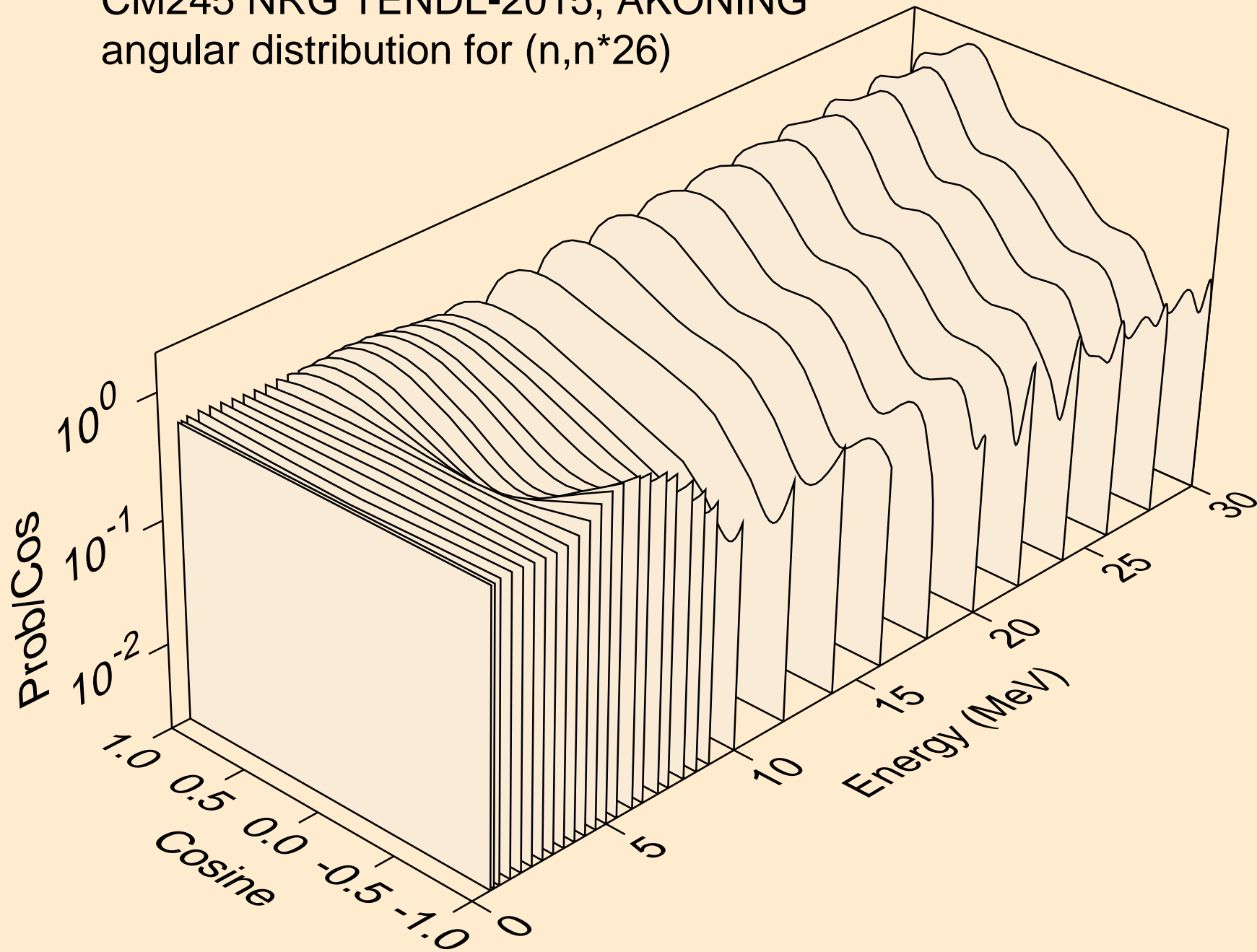CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*13)

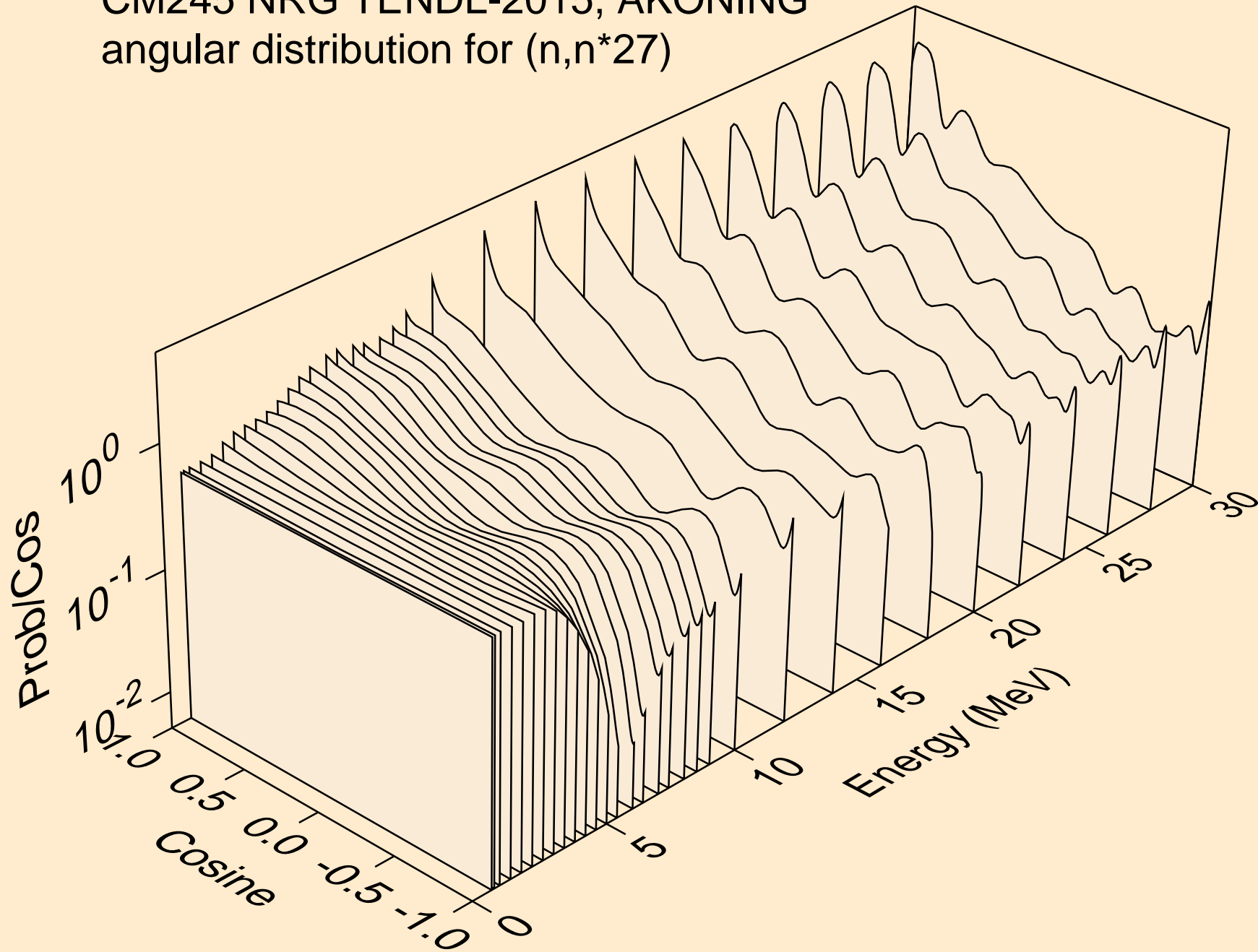CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*14)

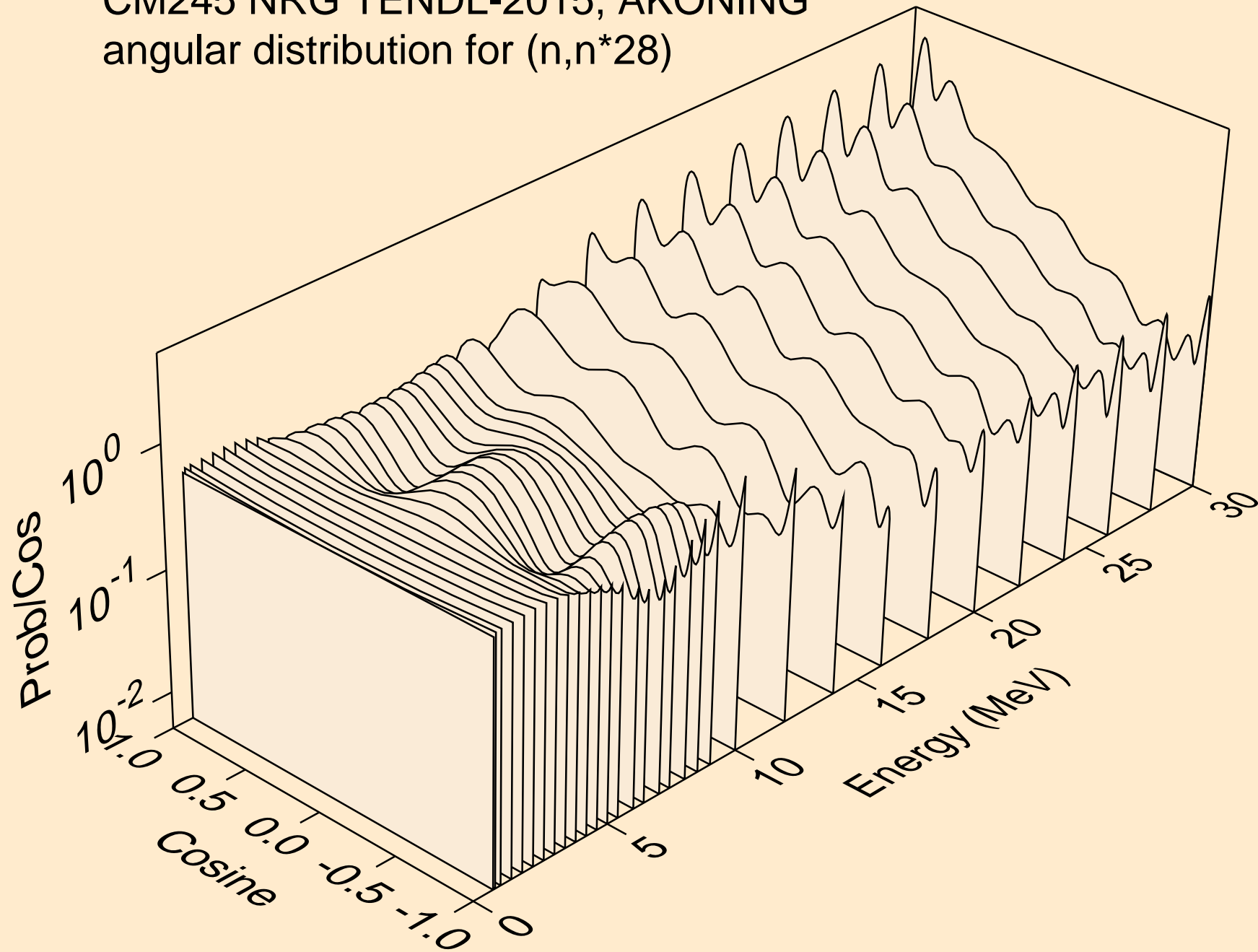CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*15)

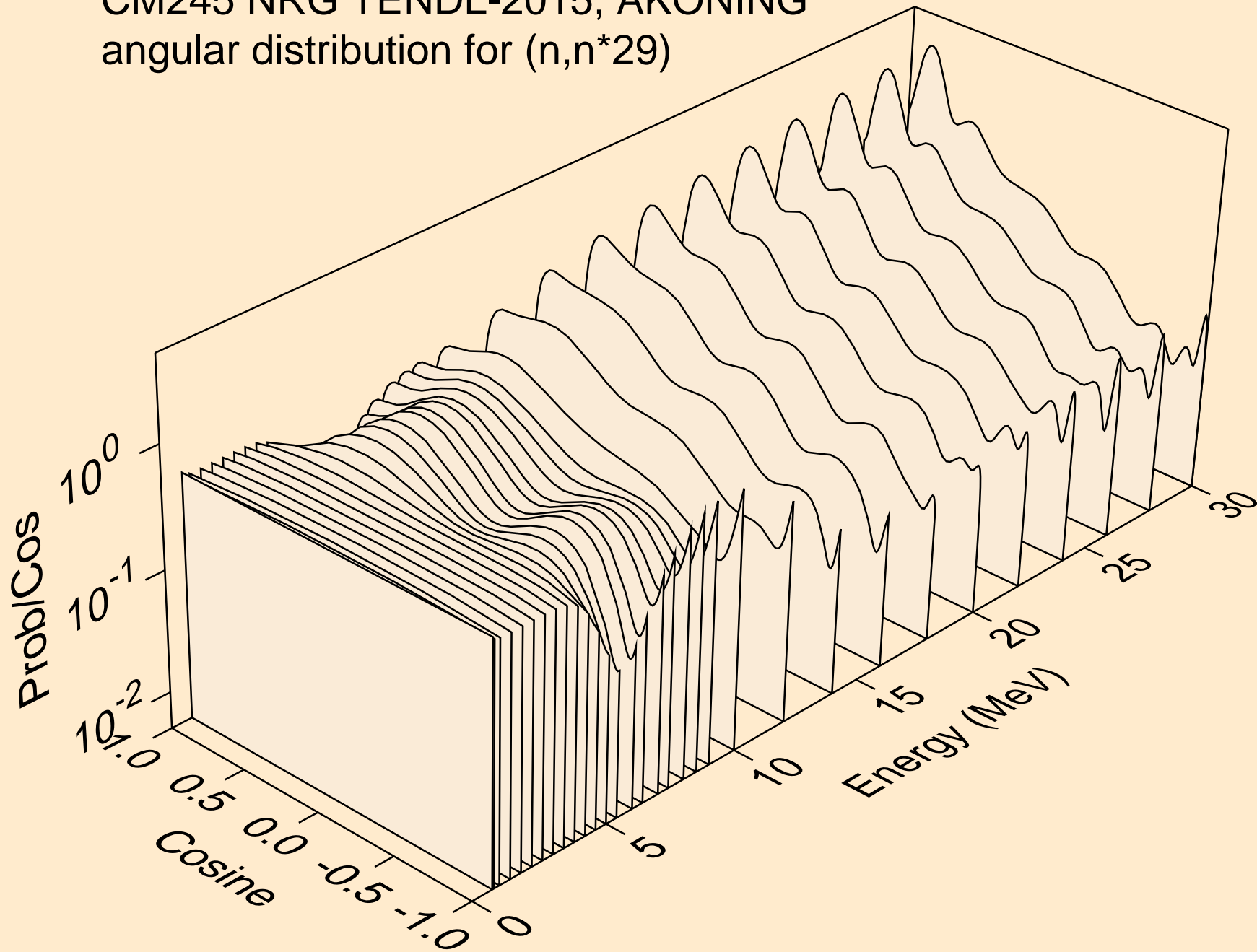CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*16)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*17)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*18)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*19)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*20)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*21)

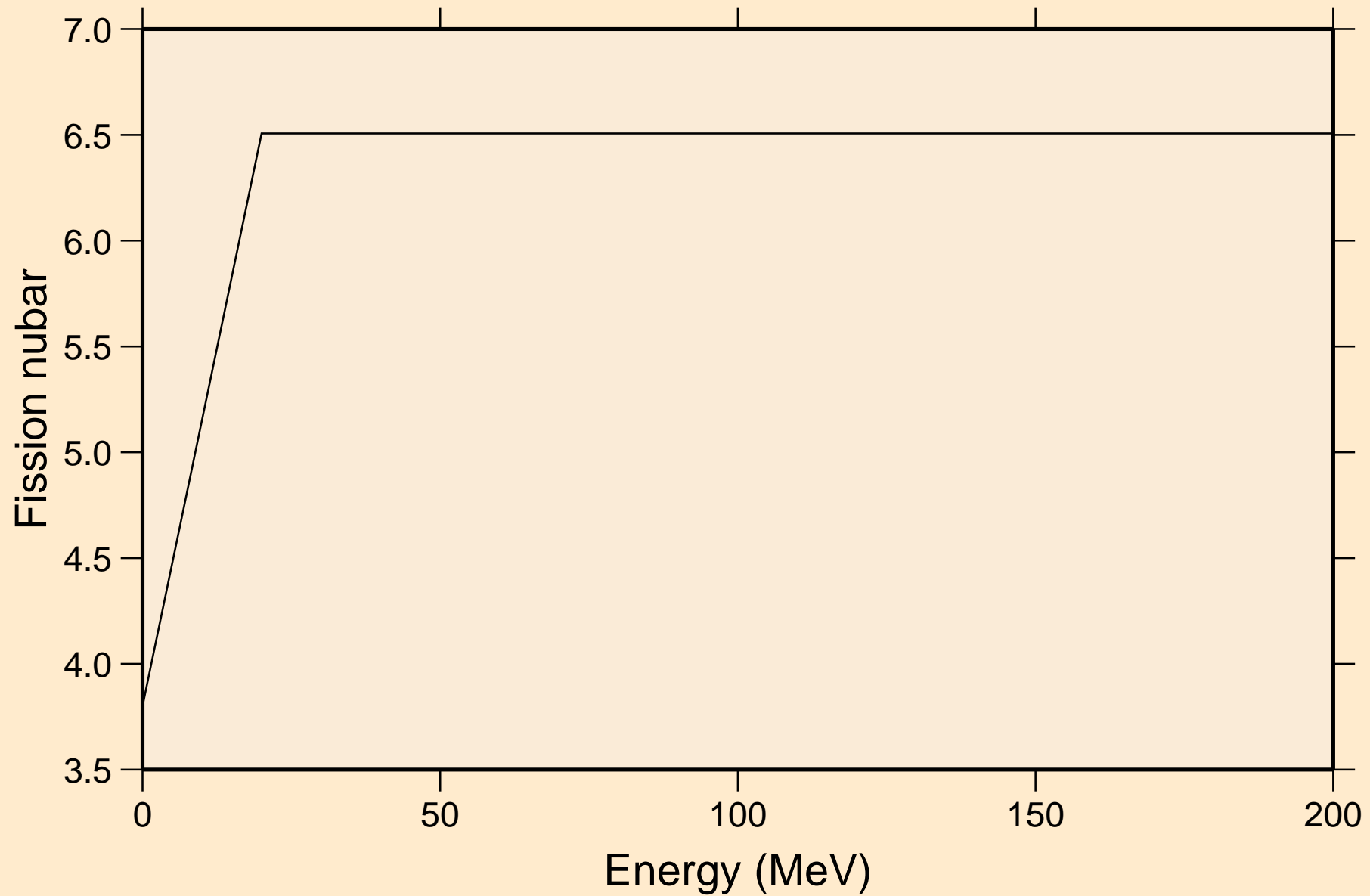CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*22)

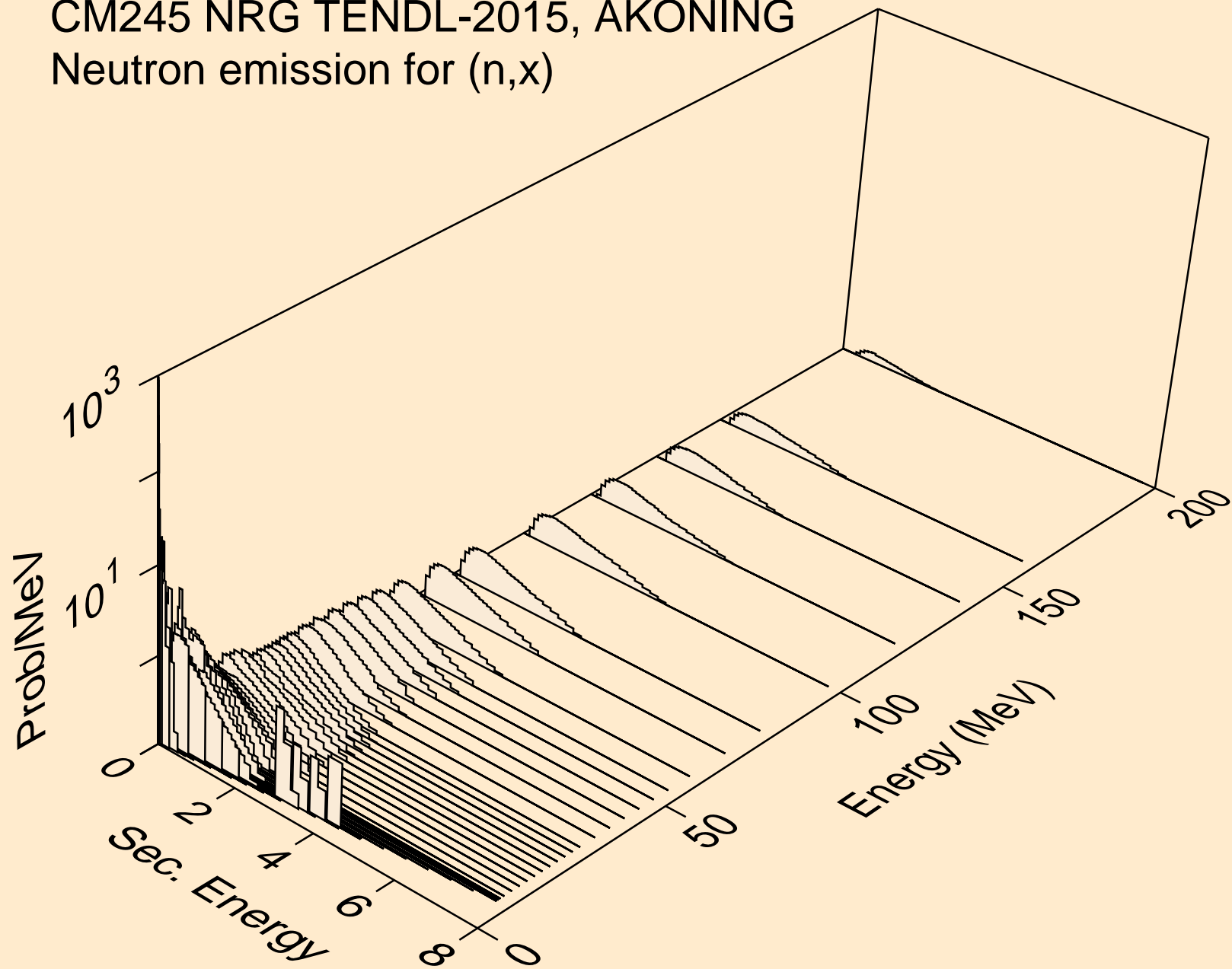CM245 NRG TENDL-2015, AKONING
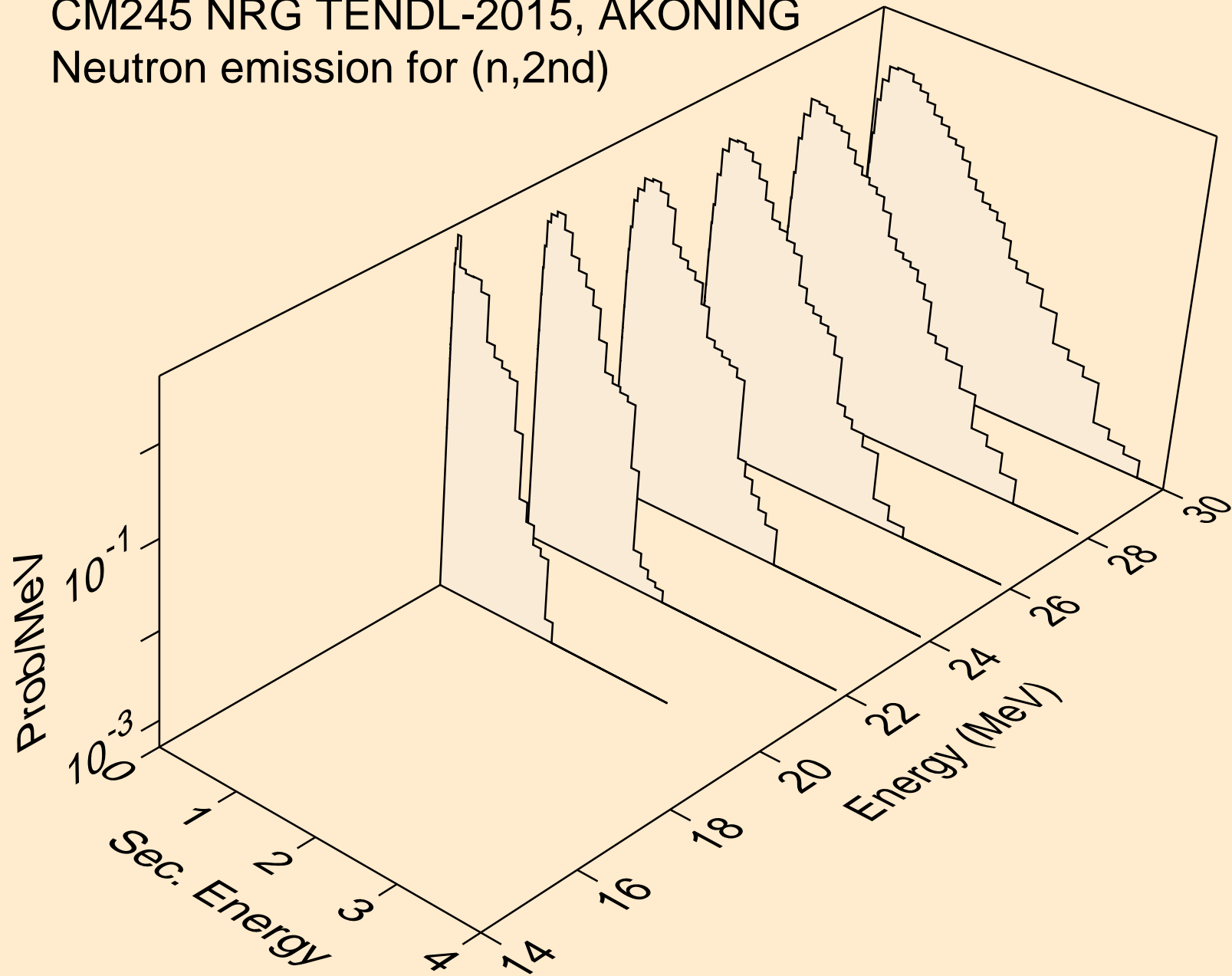angular distribution for (n,n*23)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*24)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*25)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*26)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*27)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*28)

CM245 NRG TENDL-2015, AKONING
angular distribution for (n,n*29)

CM245 NRG TENDL-2015, AKONING
Total fission nubar

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,x)

CM245 NRG TENDL-2015, AKONING
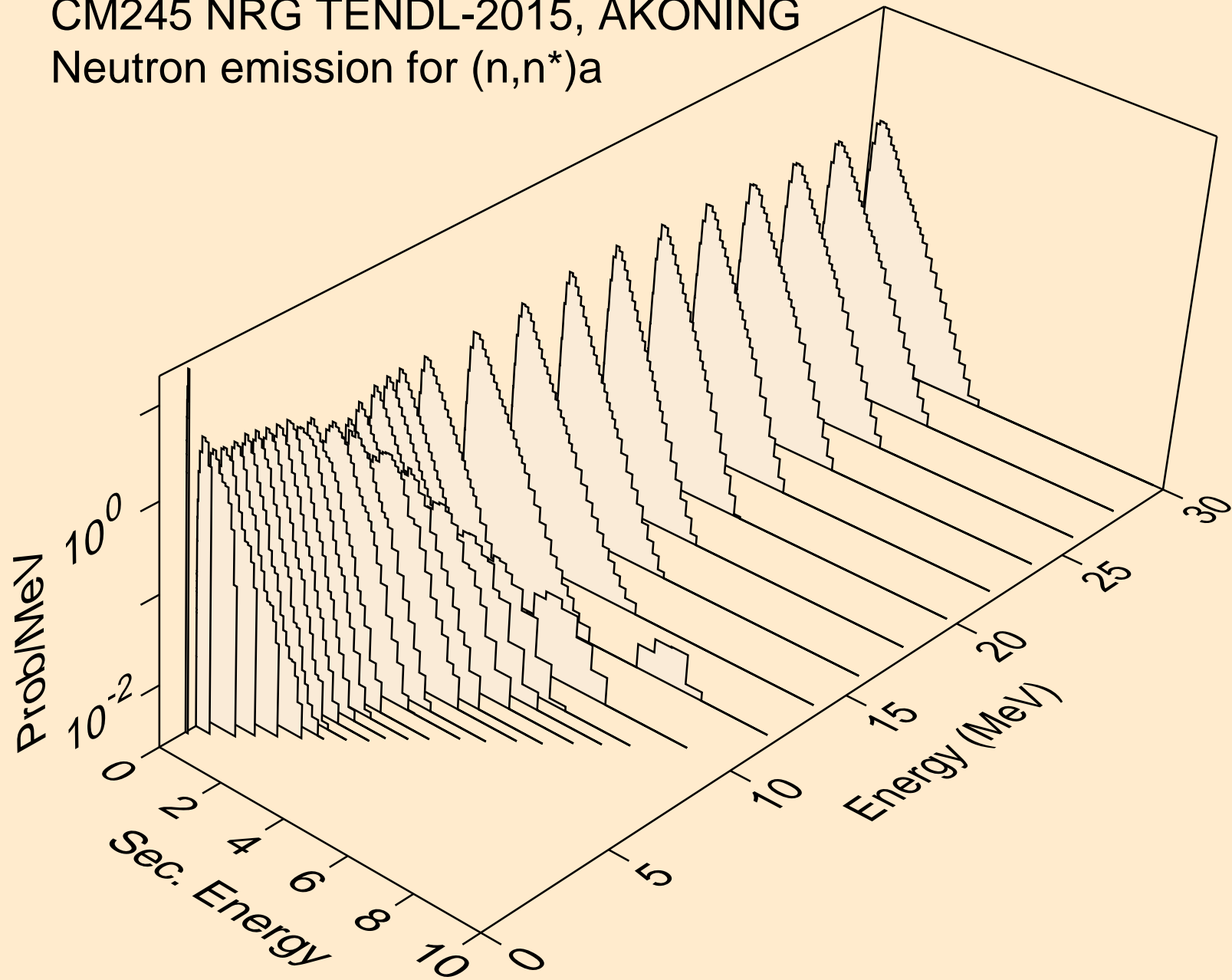Neutron emission for (n,2nd)
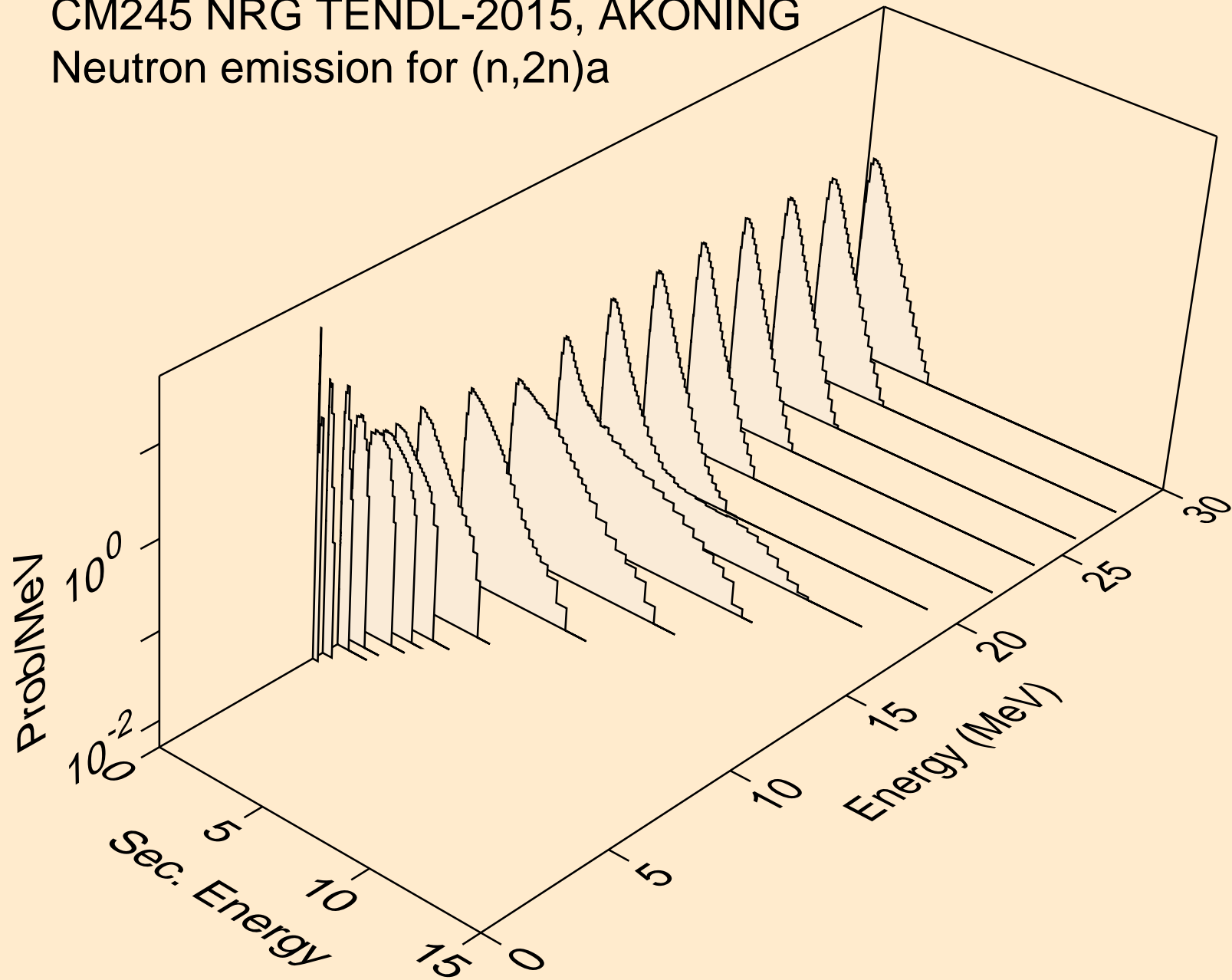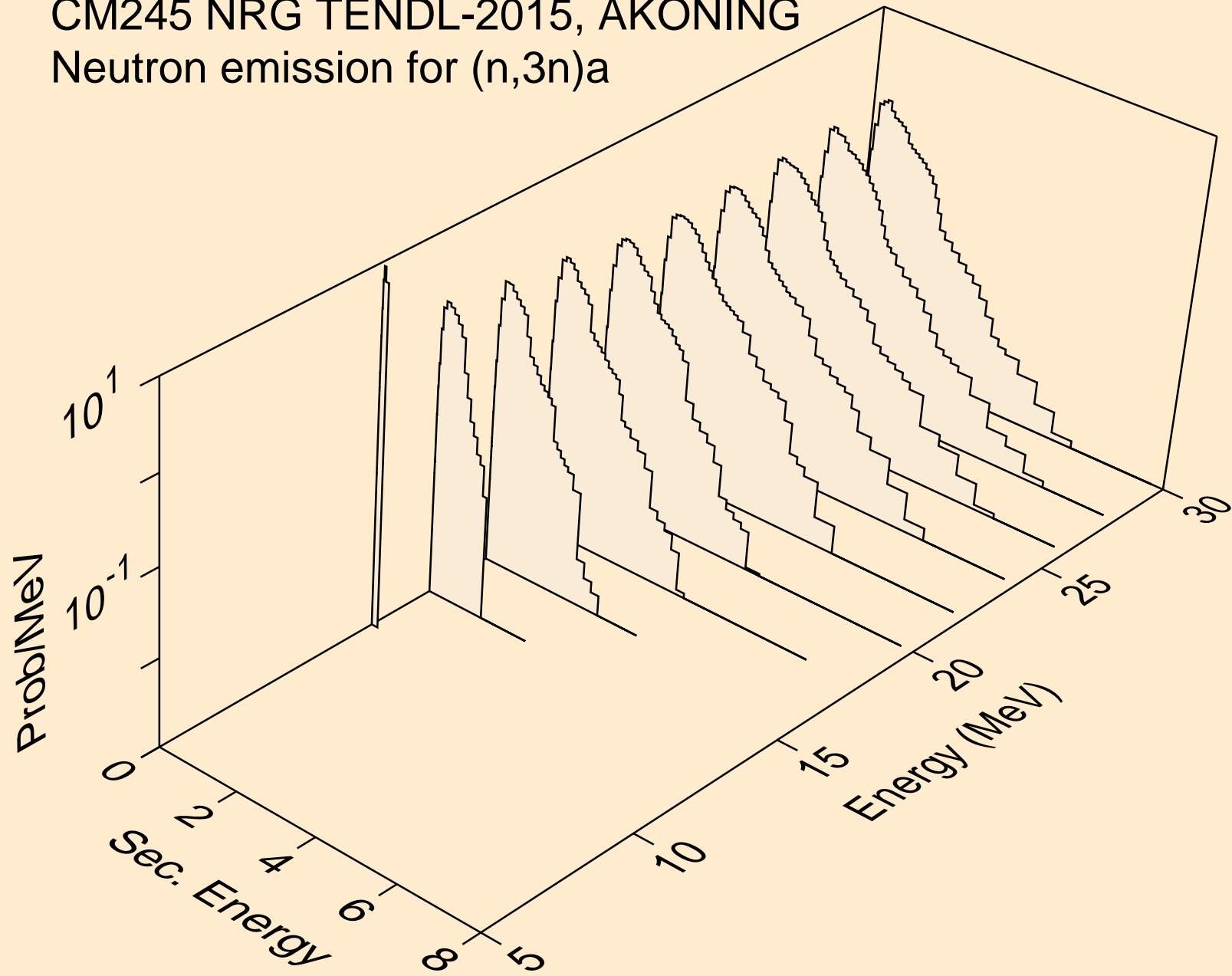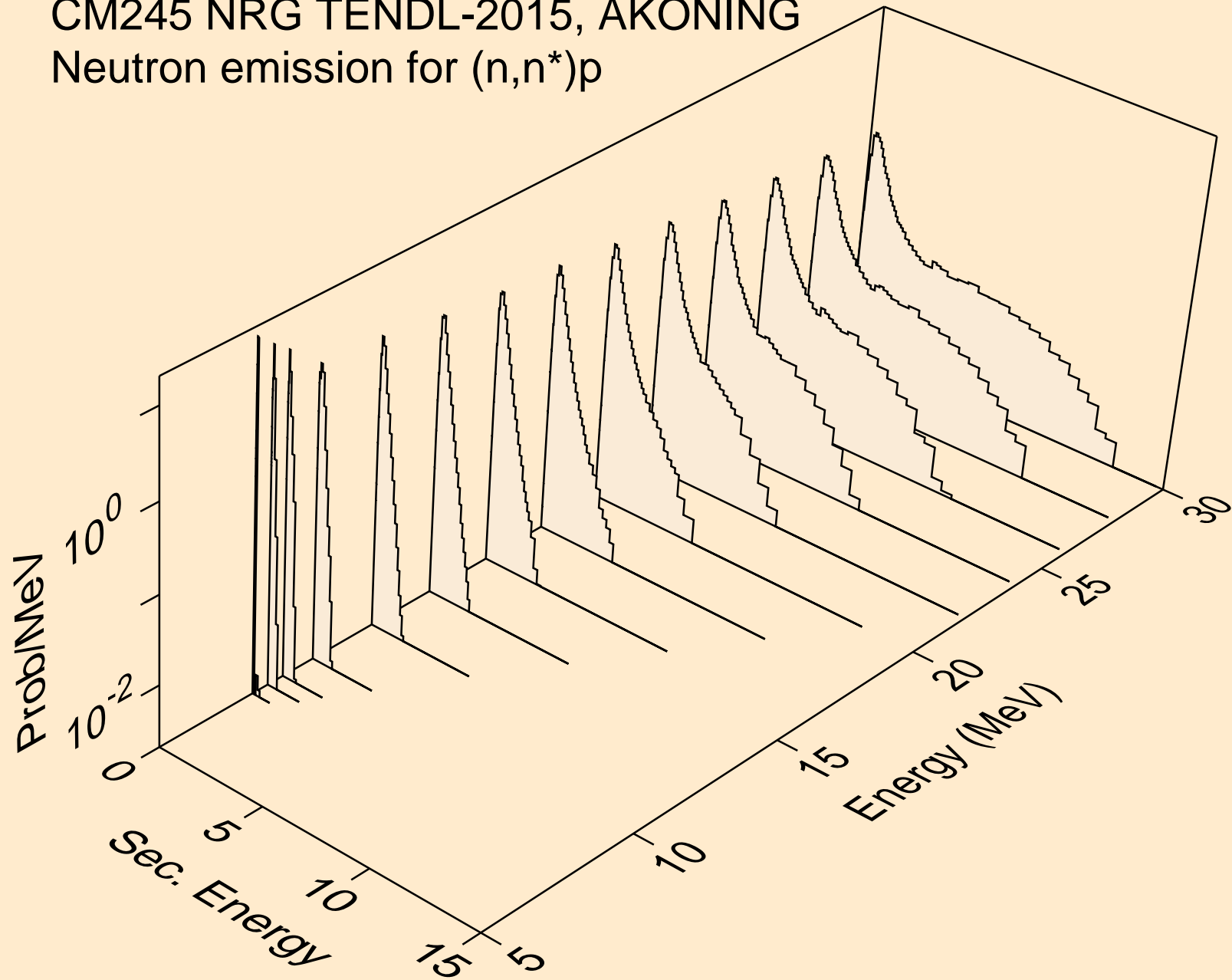
CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,2n)

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,3n)

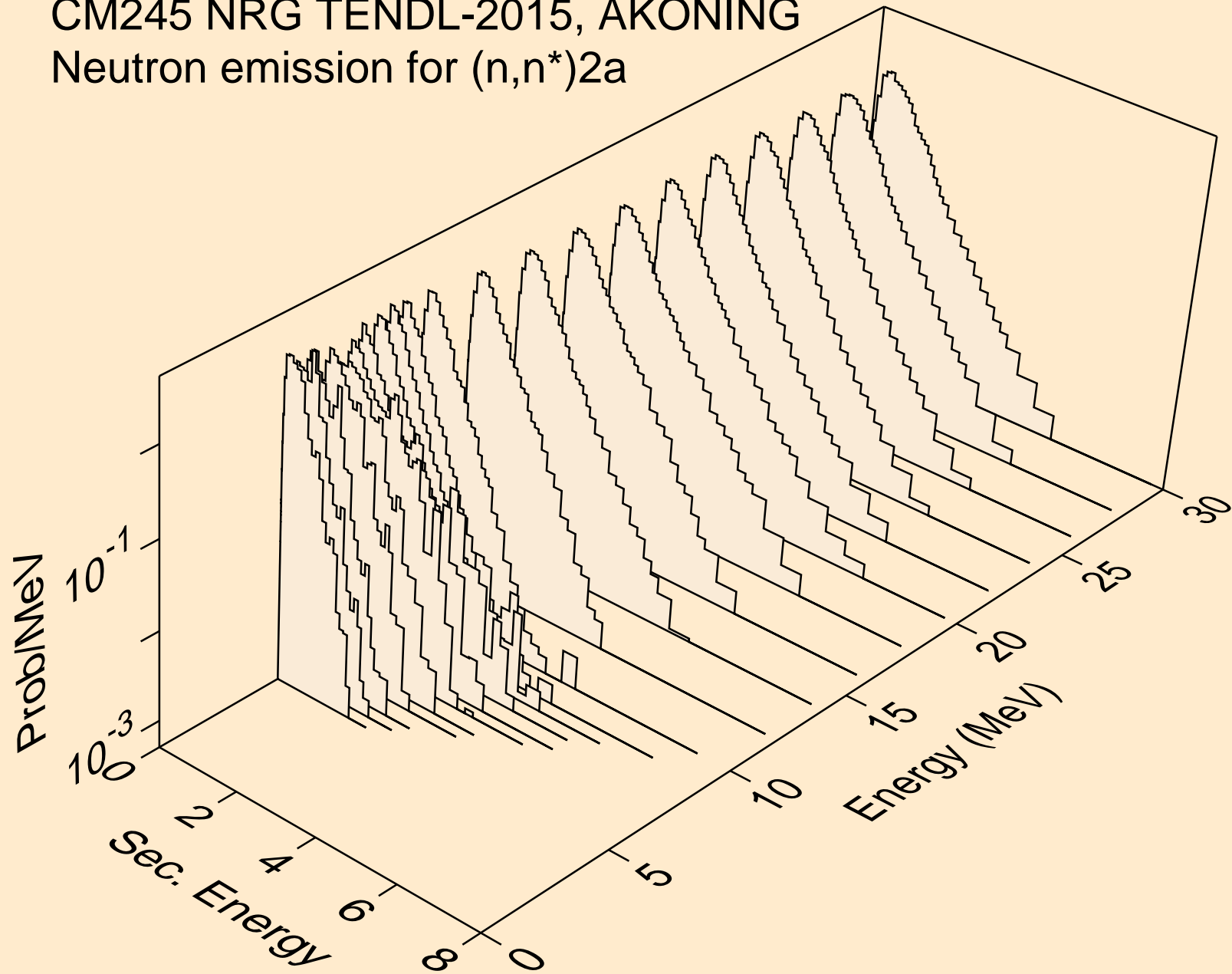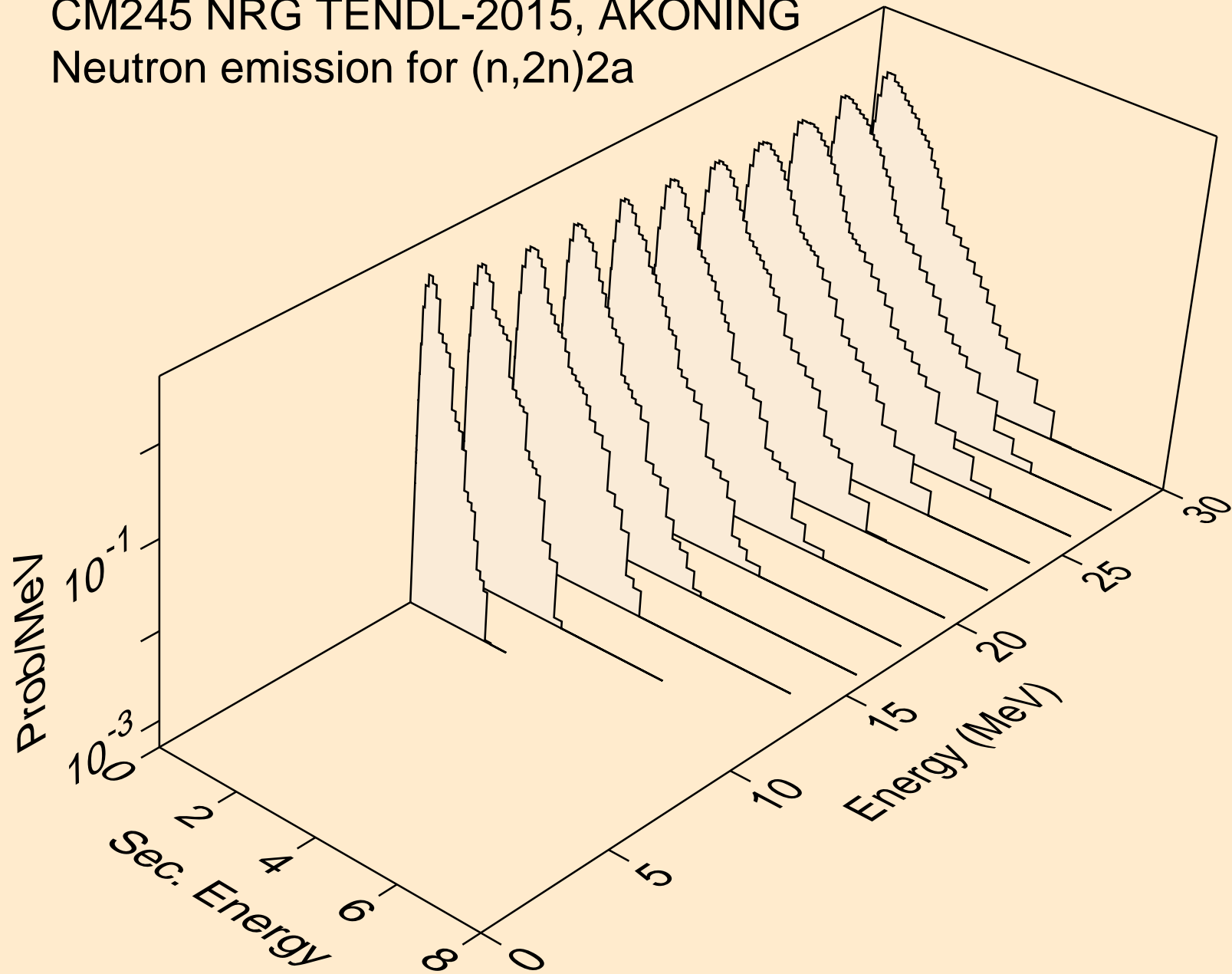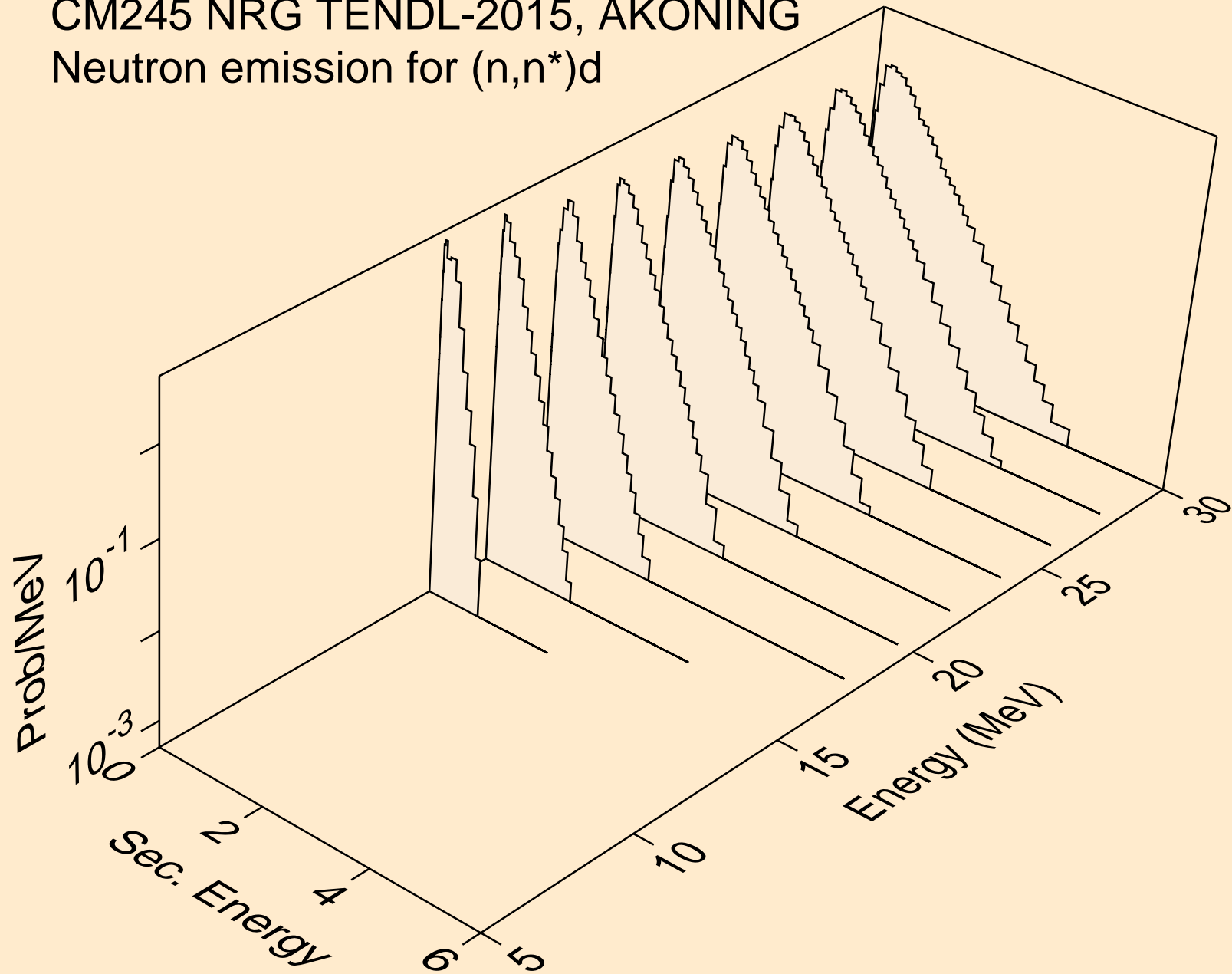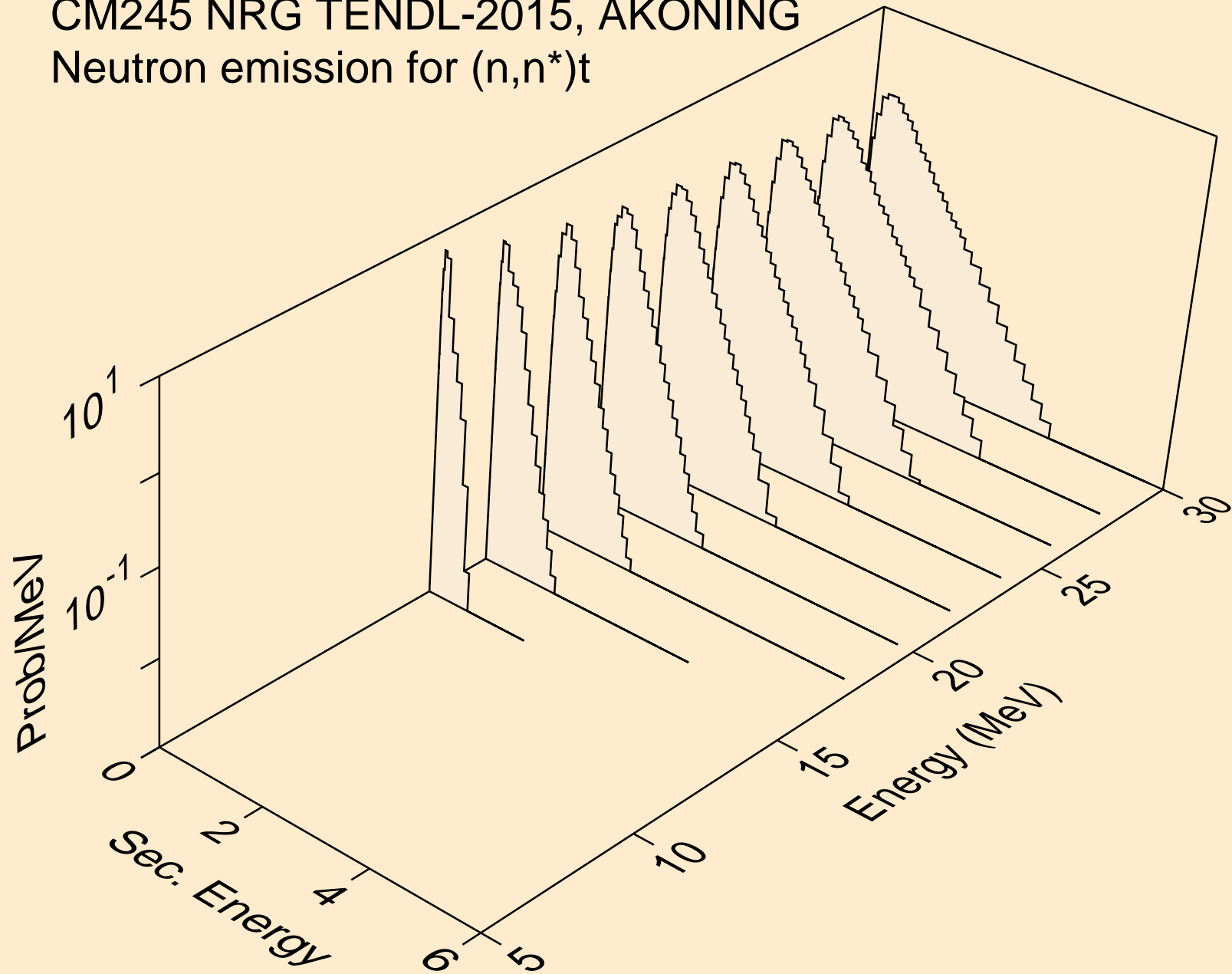CM245 NRG TENDL-2015, AKONING
Neutron emission for fission

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,n*)a

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,2n)a

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,3n)a

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,n*)p

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,n*)2a

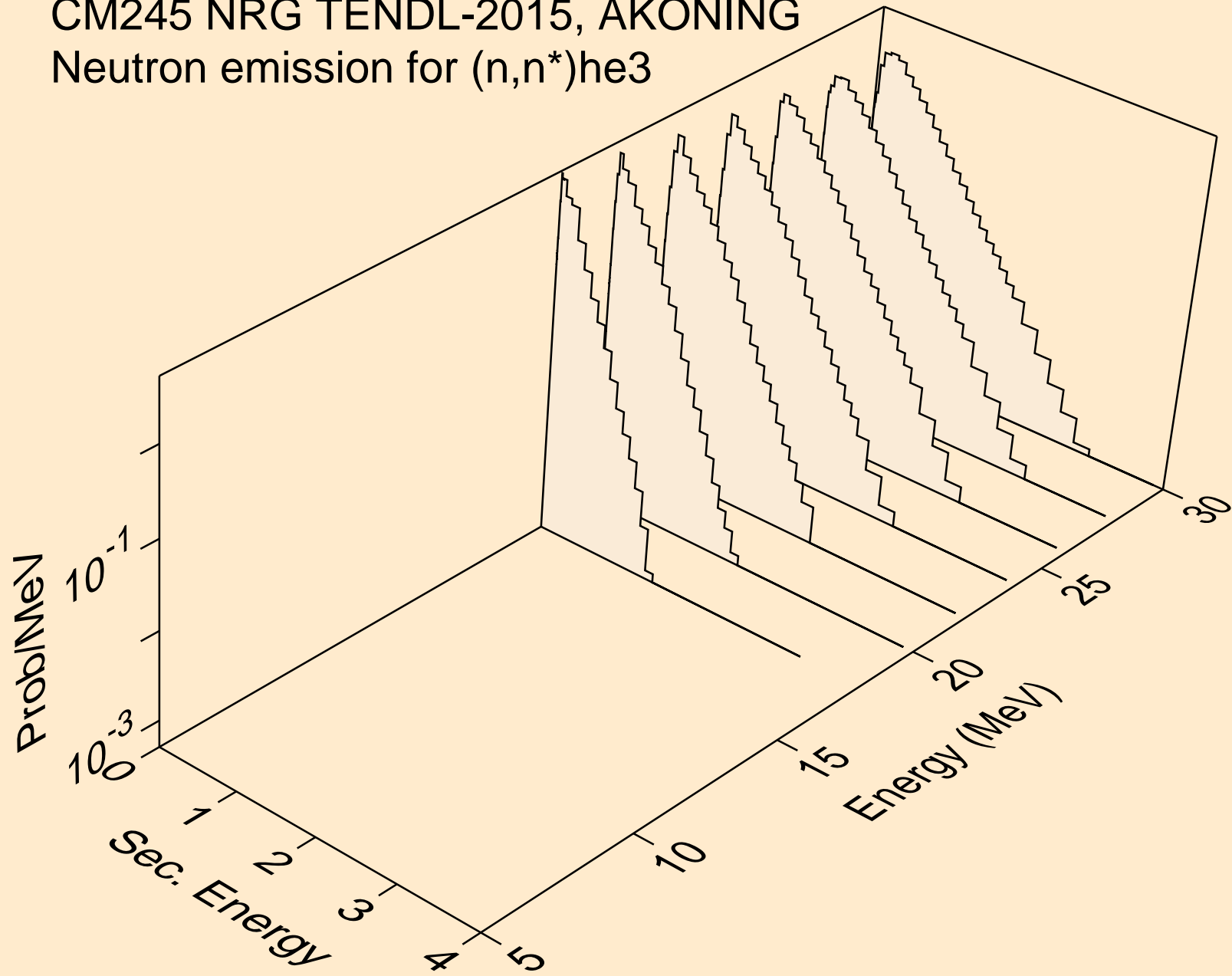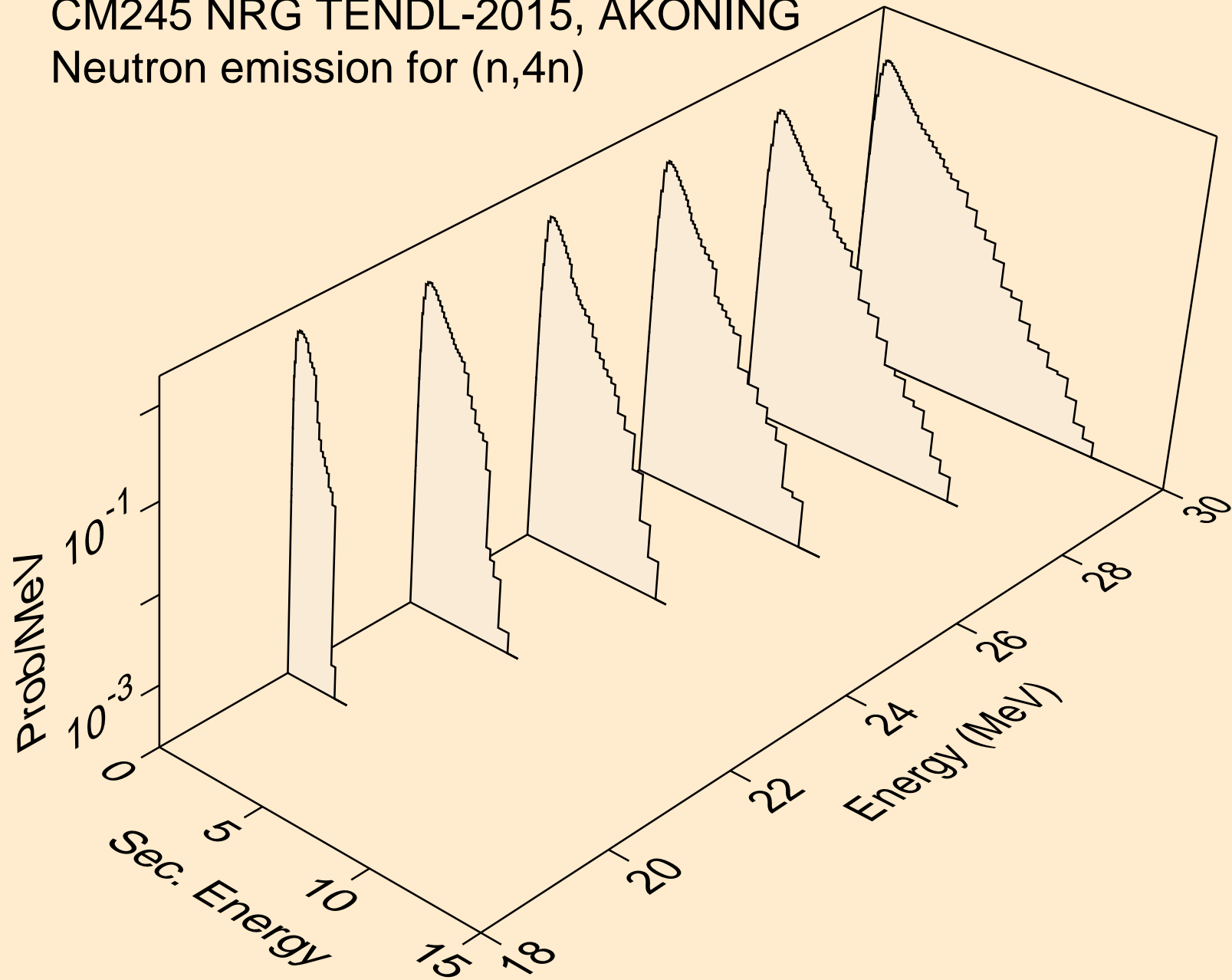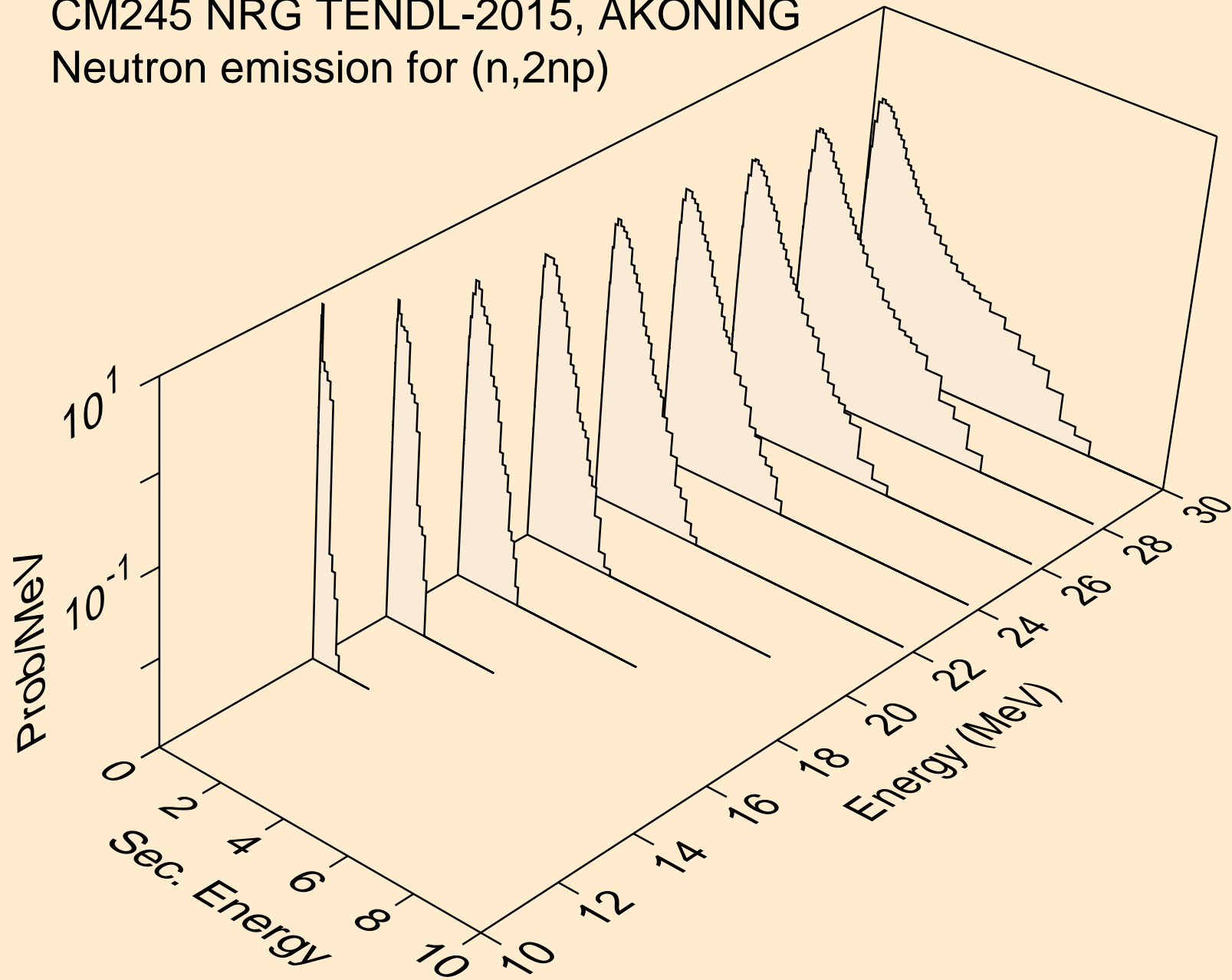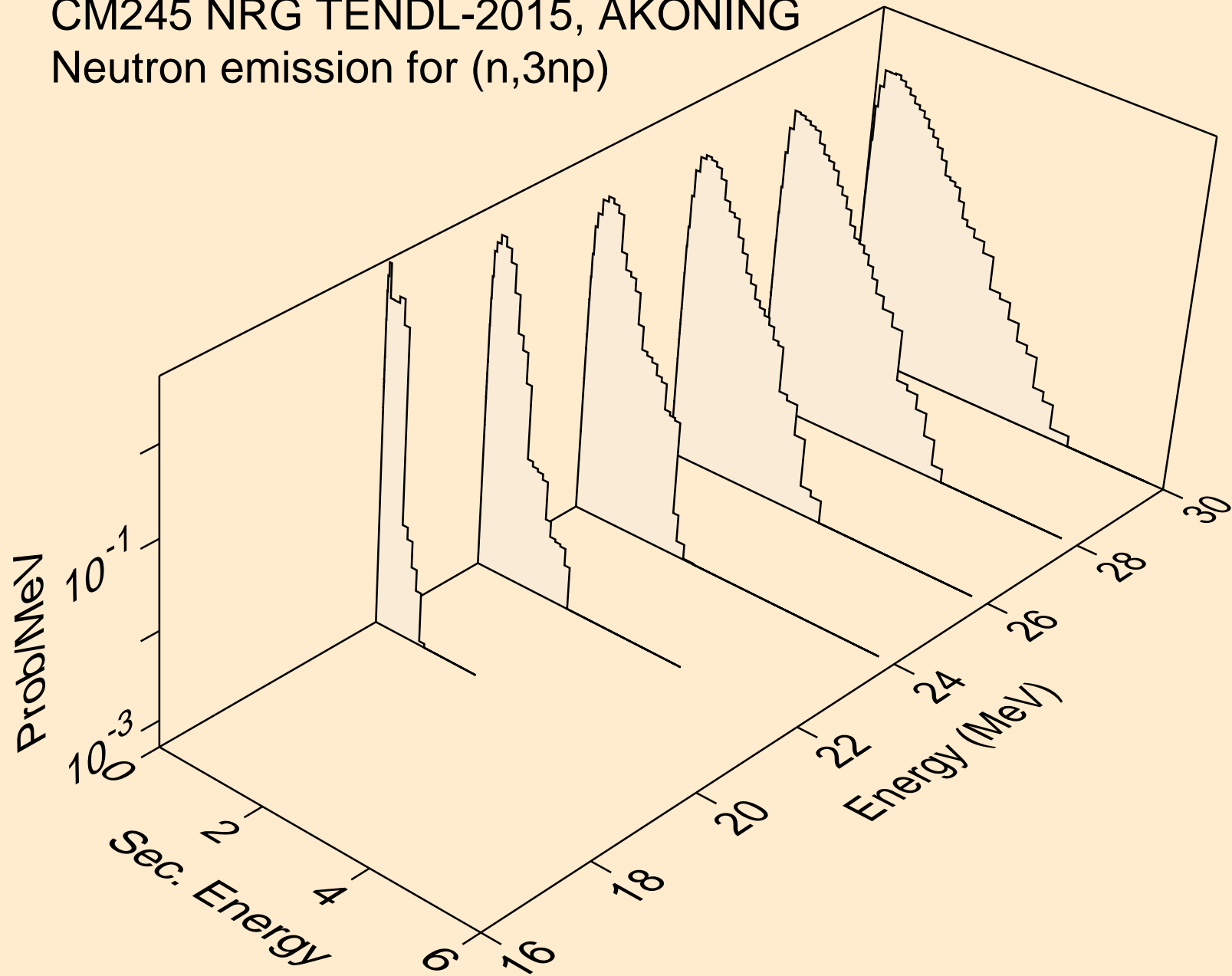CM245 NRG TENDL-2015, AKONING
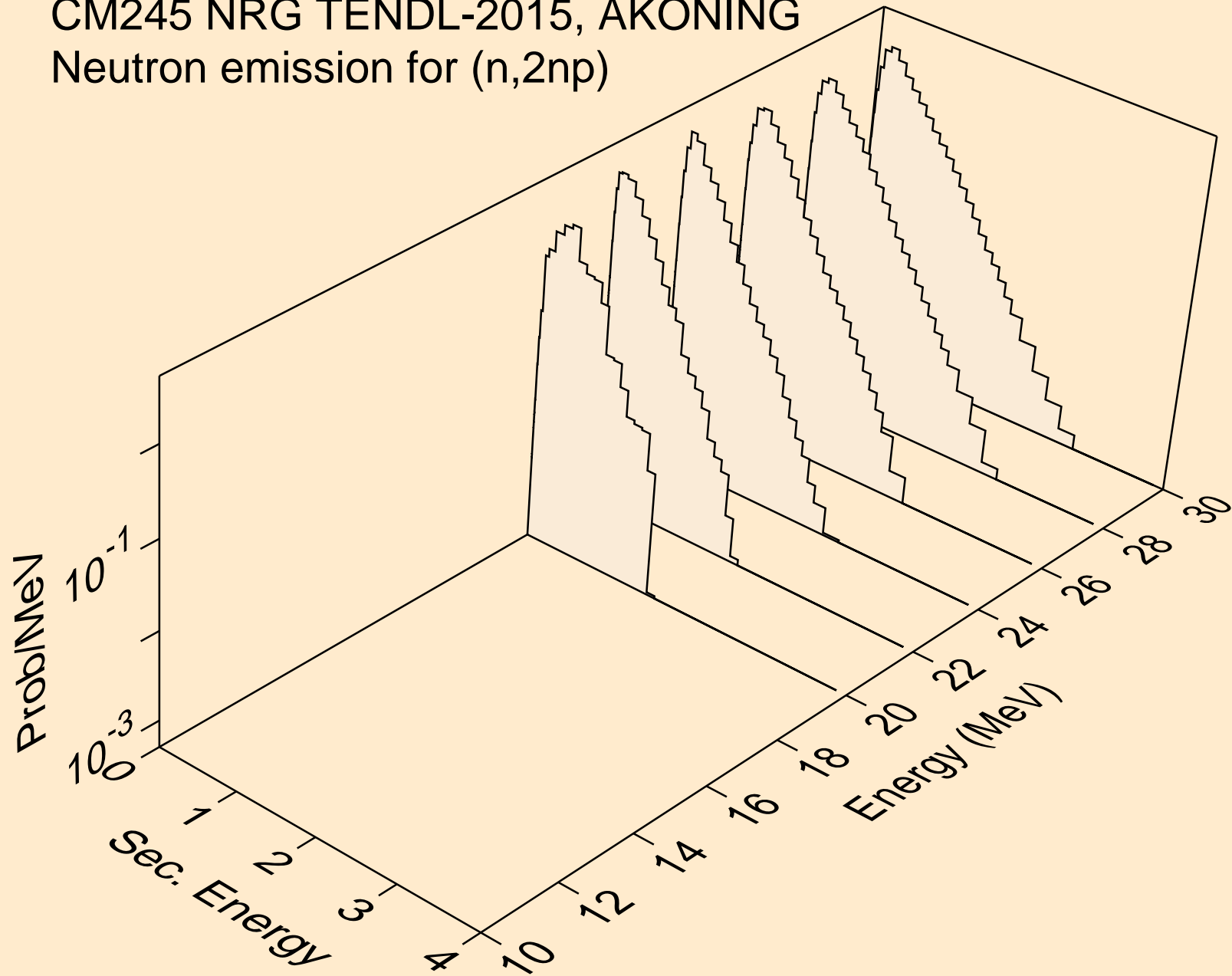Neutron emission for (n,2n)2a

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,n*)d

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,n*)t

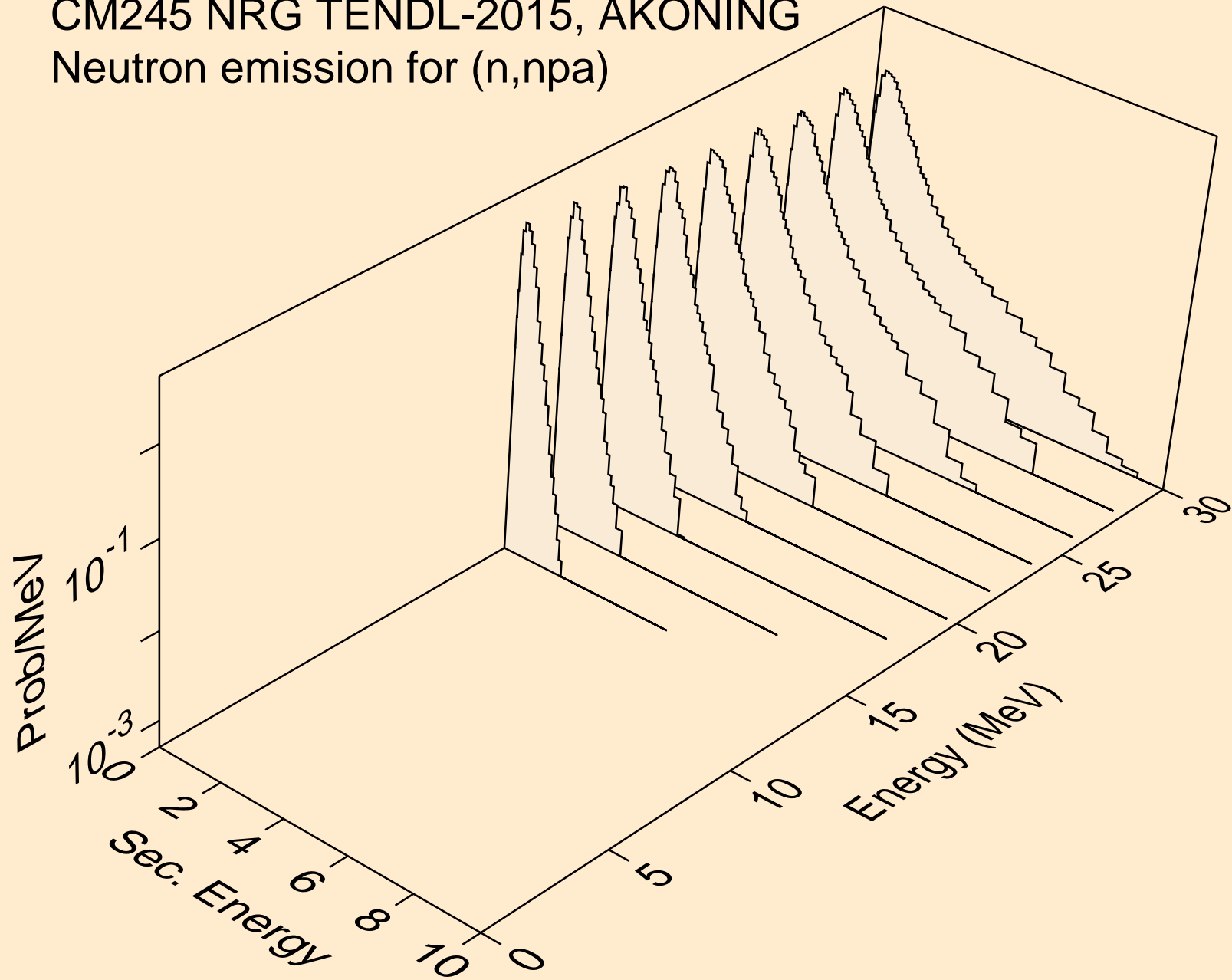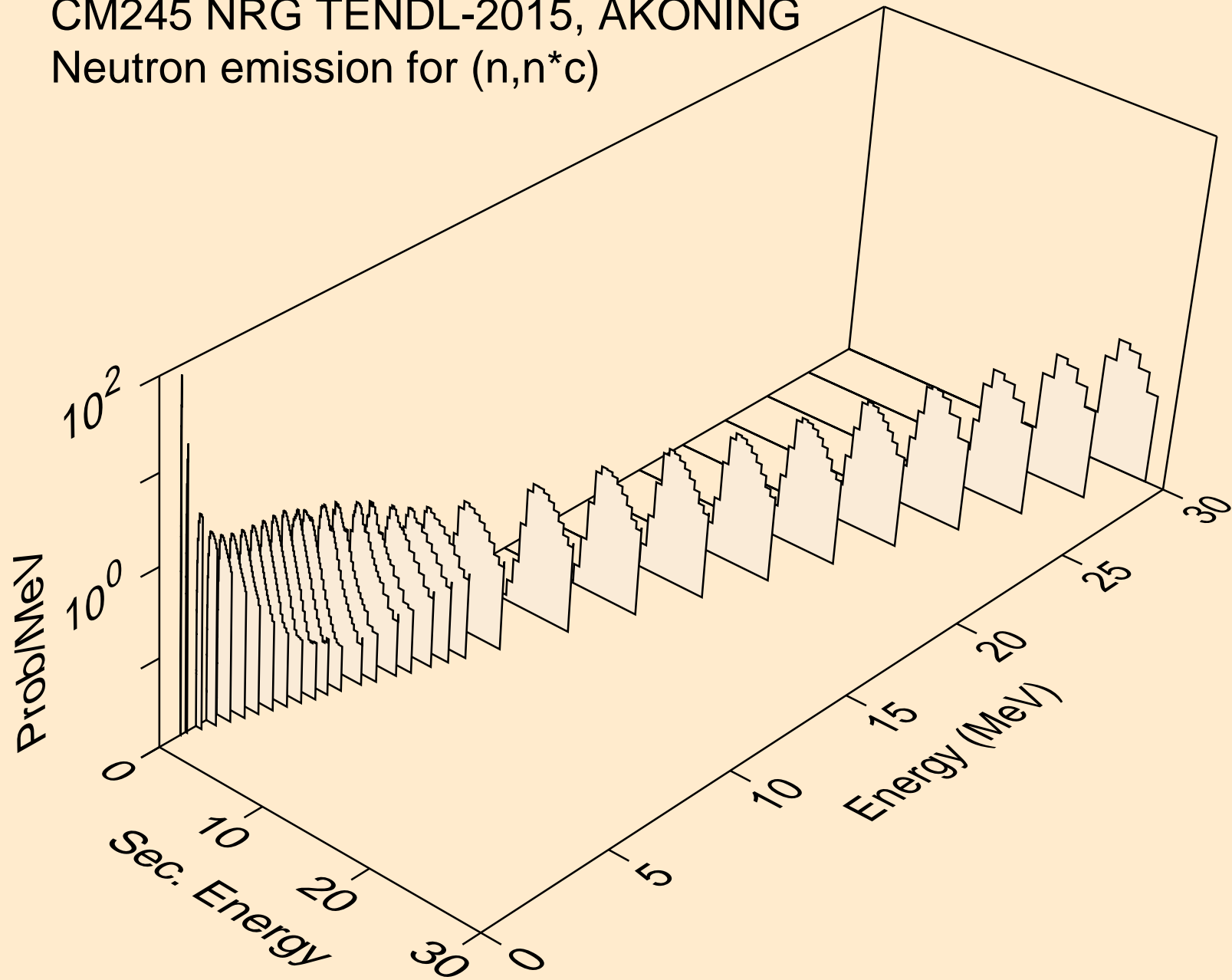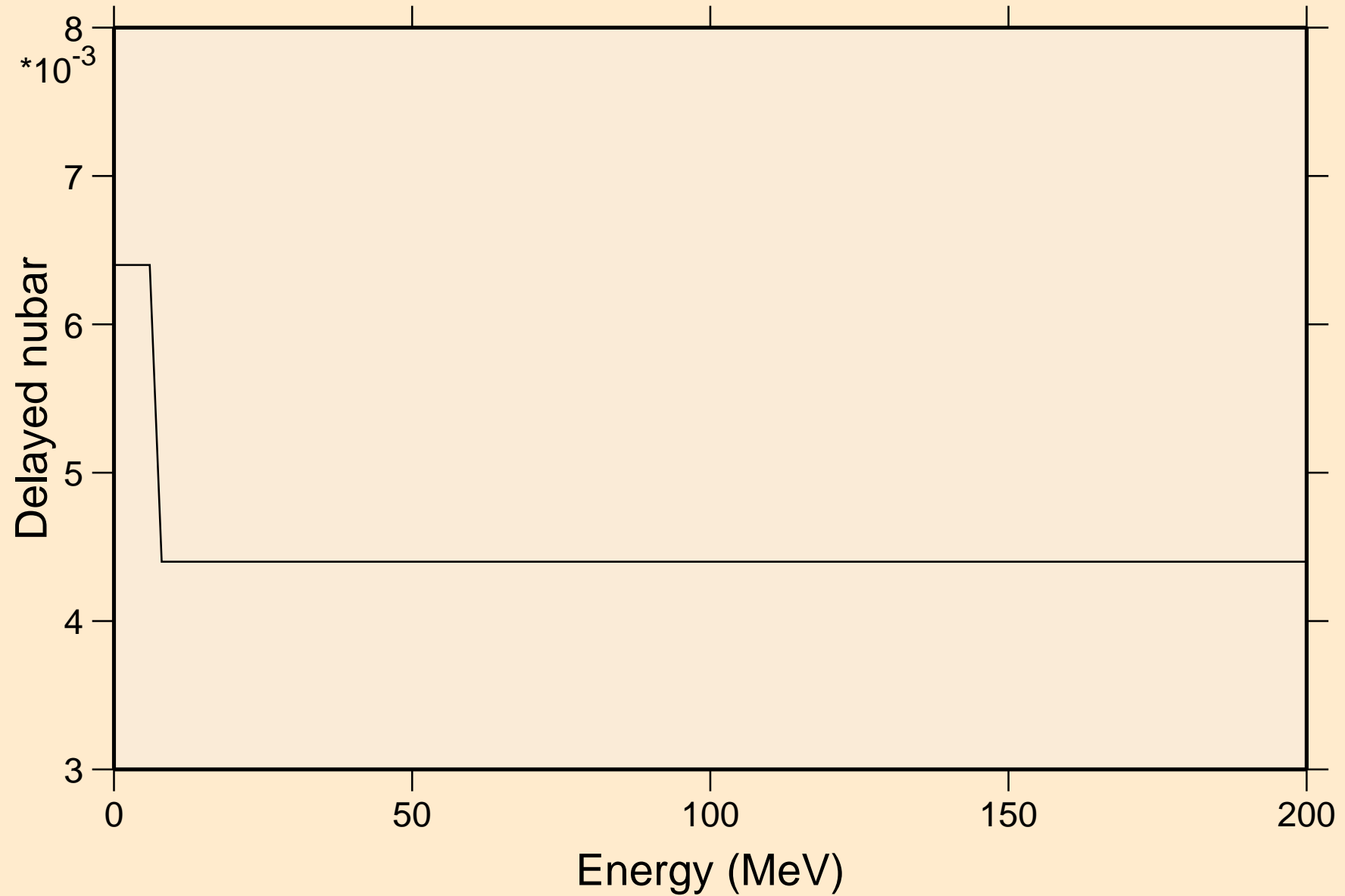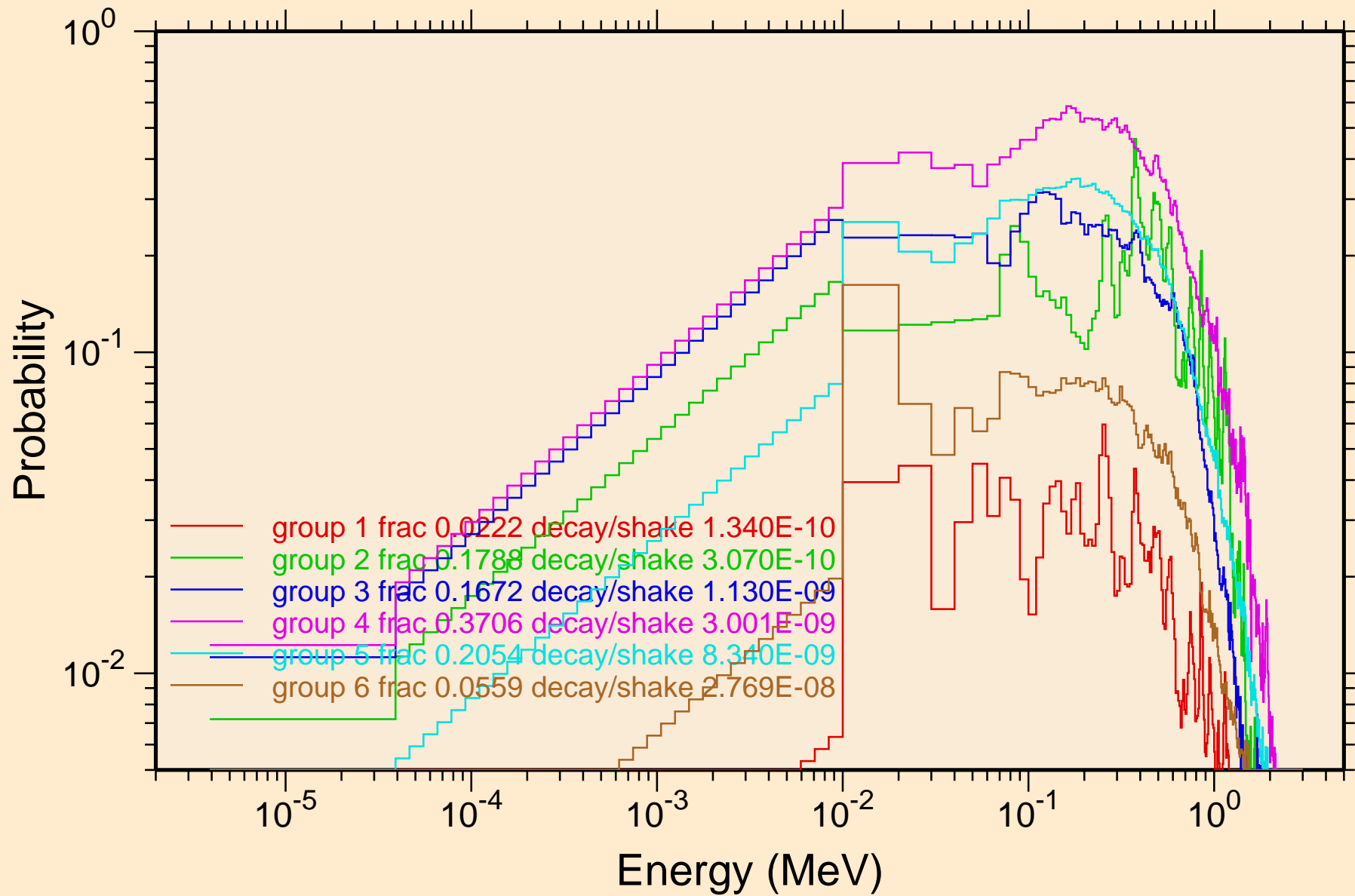CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,n*)he3

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,4n)

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,2np)

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,3np)

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,2np)

CM245 NRG TENDL-2015, AKONING
Neutron emission for (n,npa)

CM245 NRG TENDL-2015, AKONING
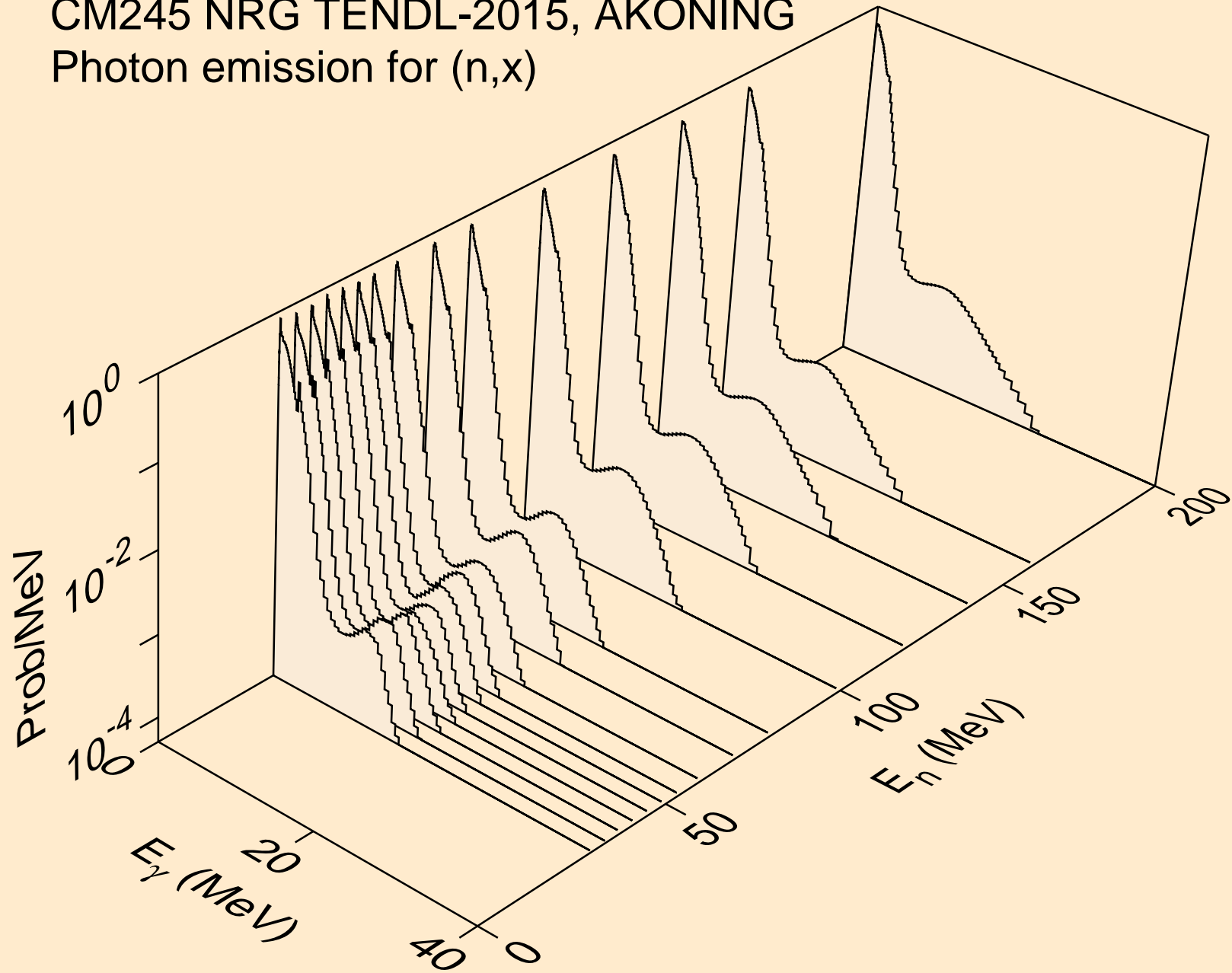Neutron emission for (n,n*c)

CM245 NRG TENDL-2015, AKONING
Delayed nubar

CM245 NRG TENDL-2015, AKONING
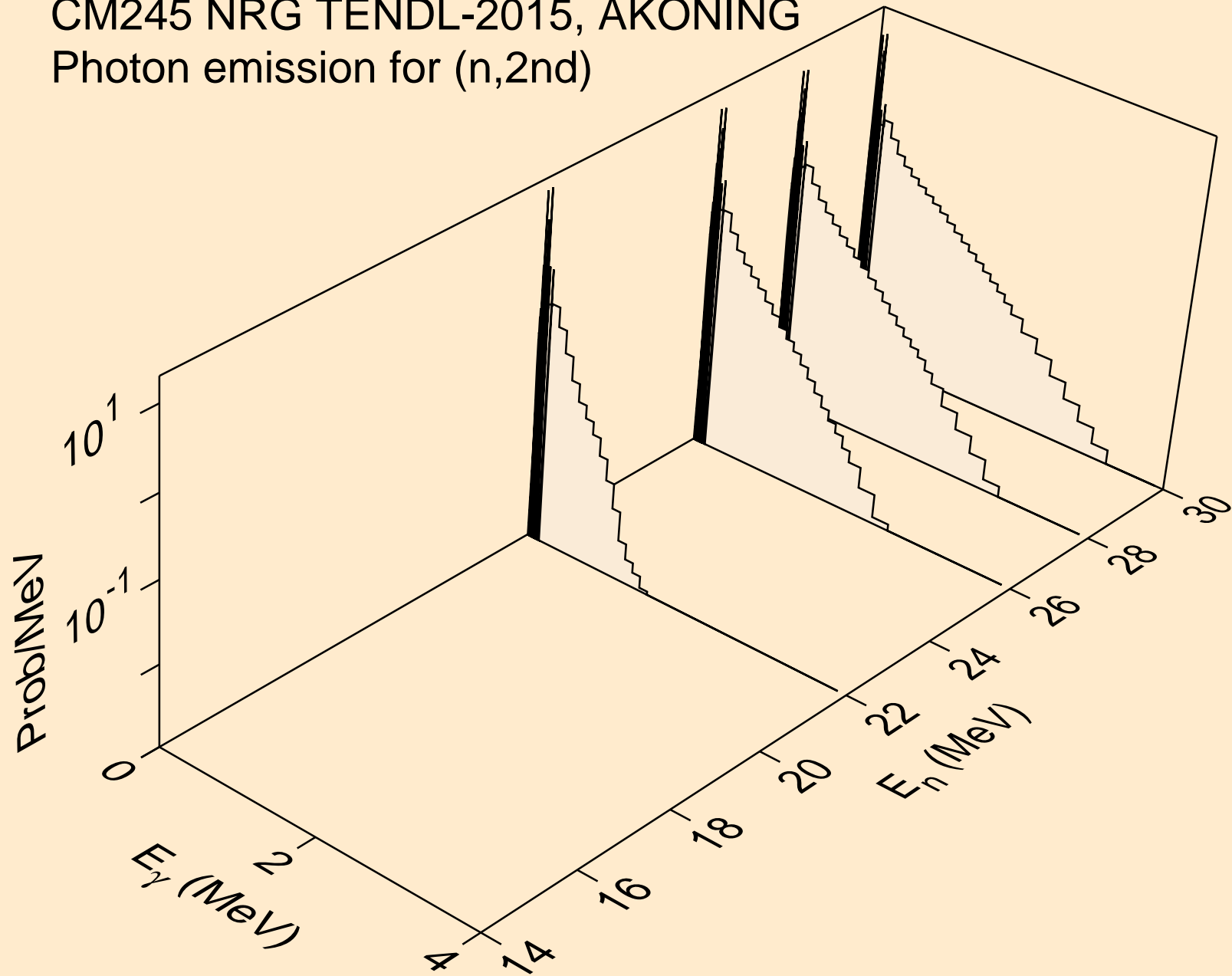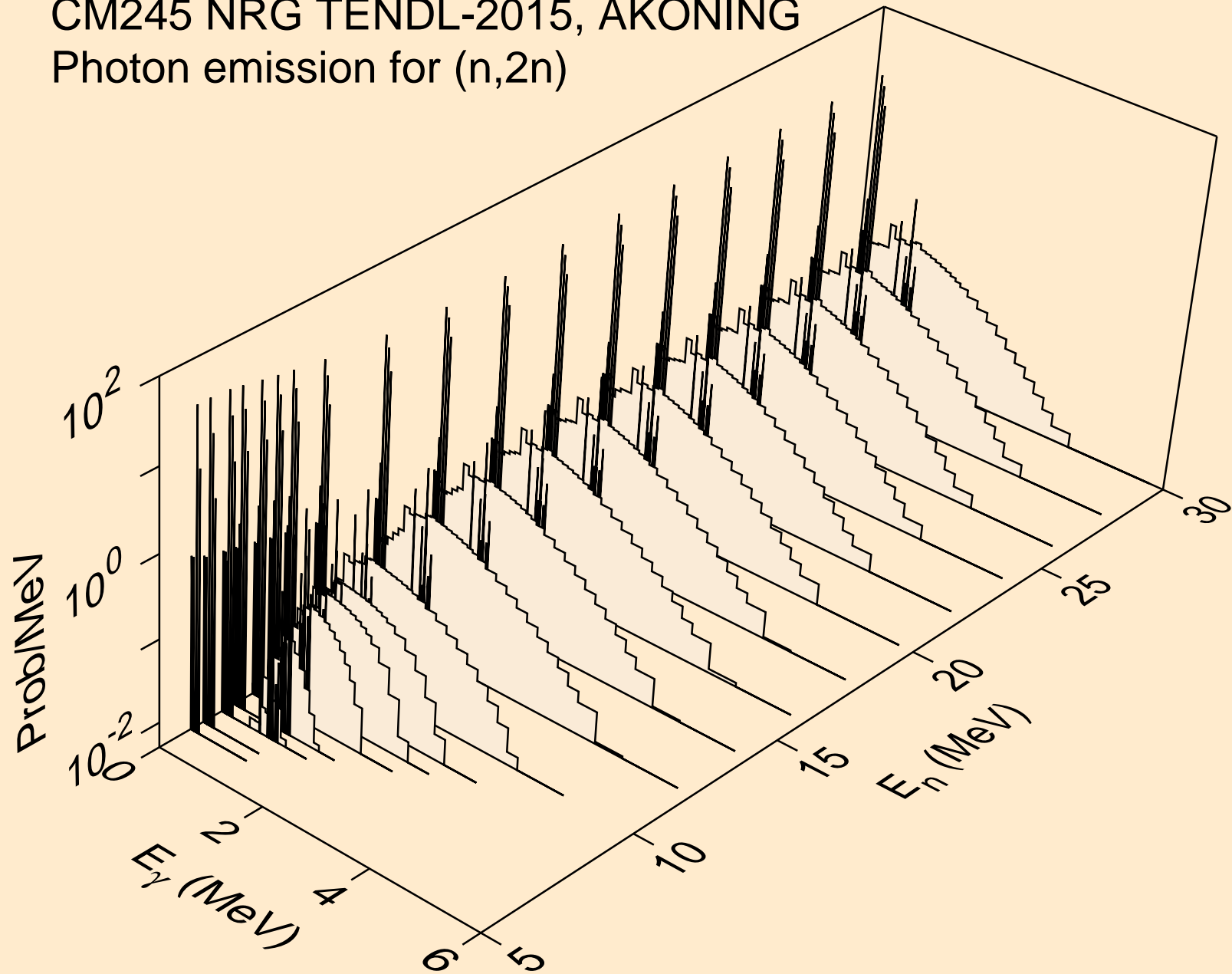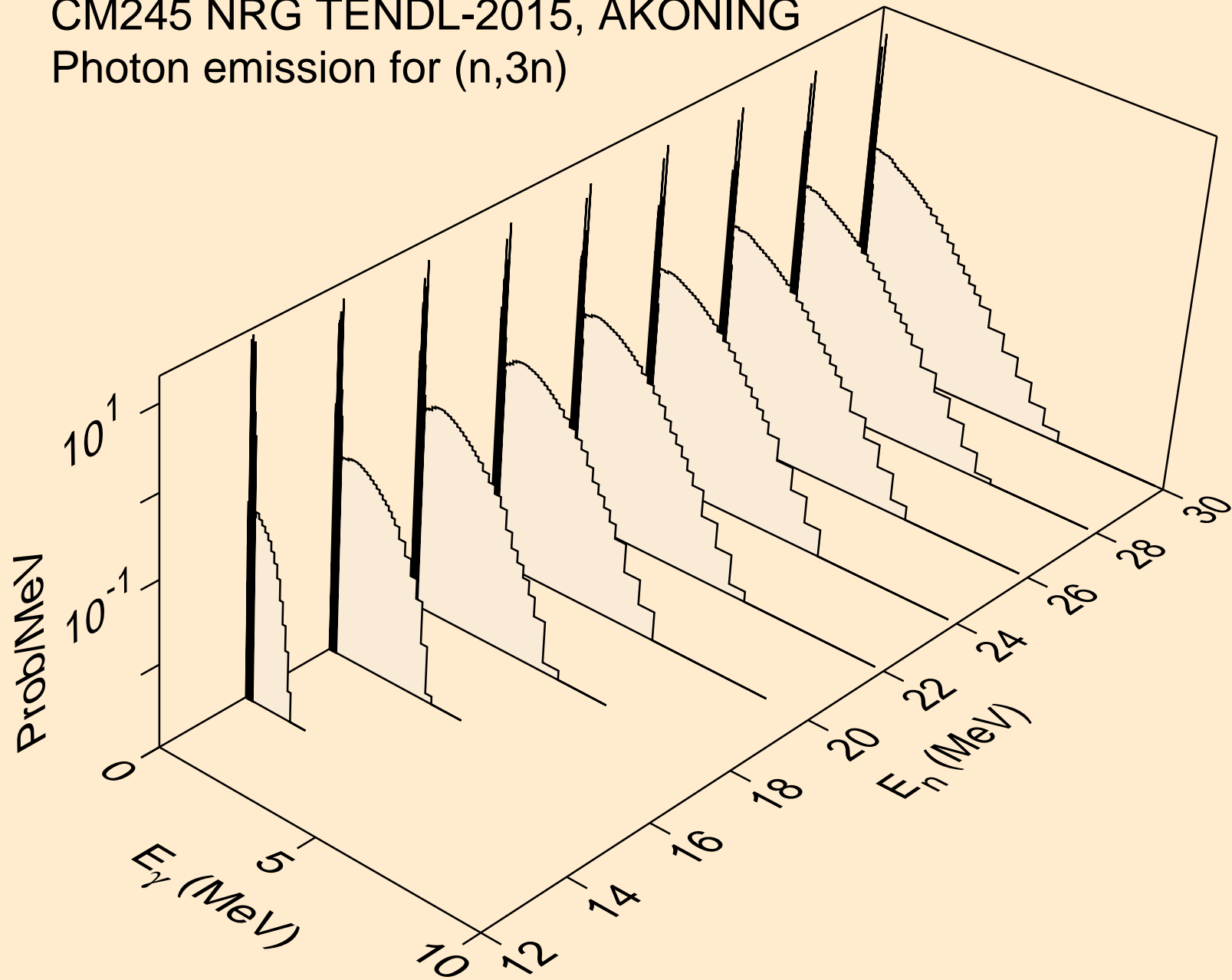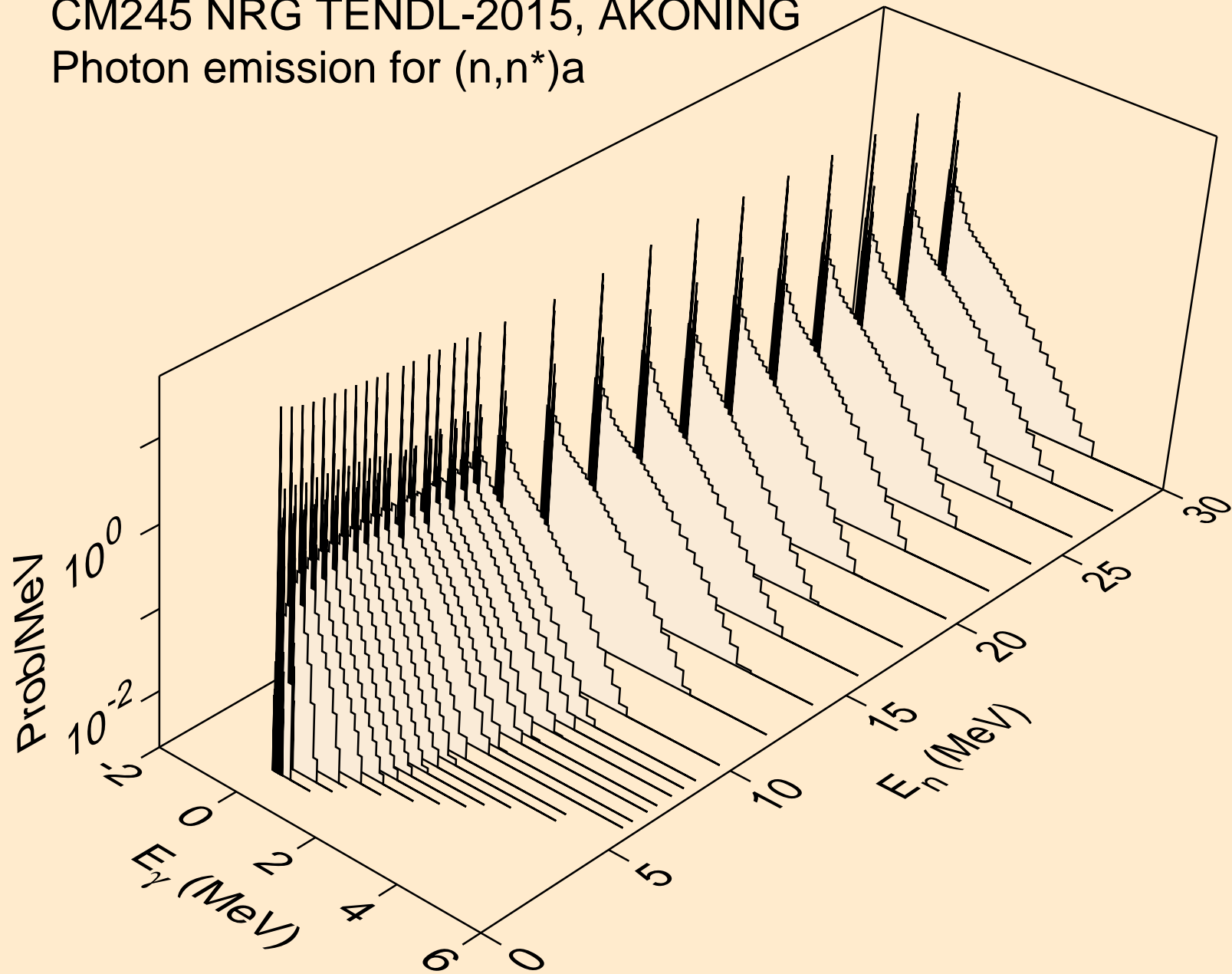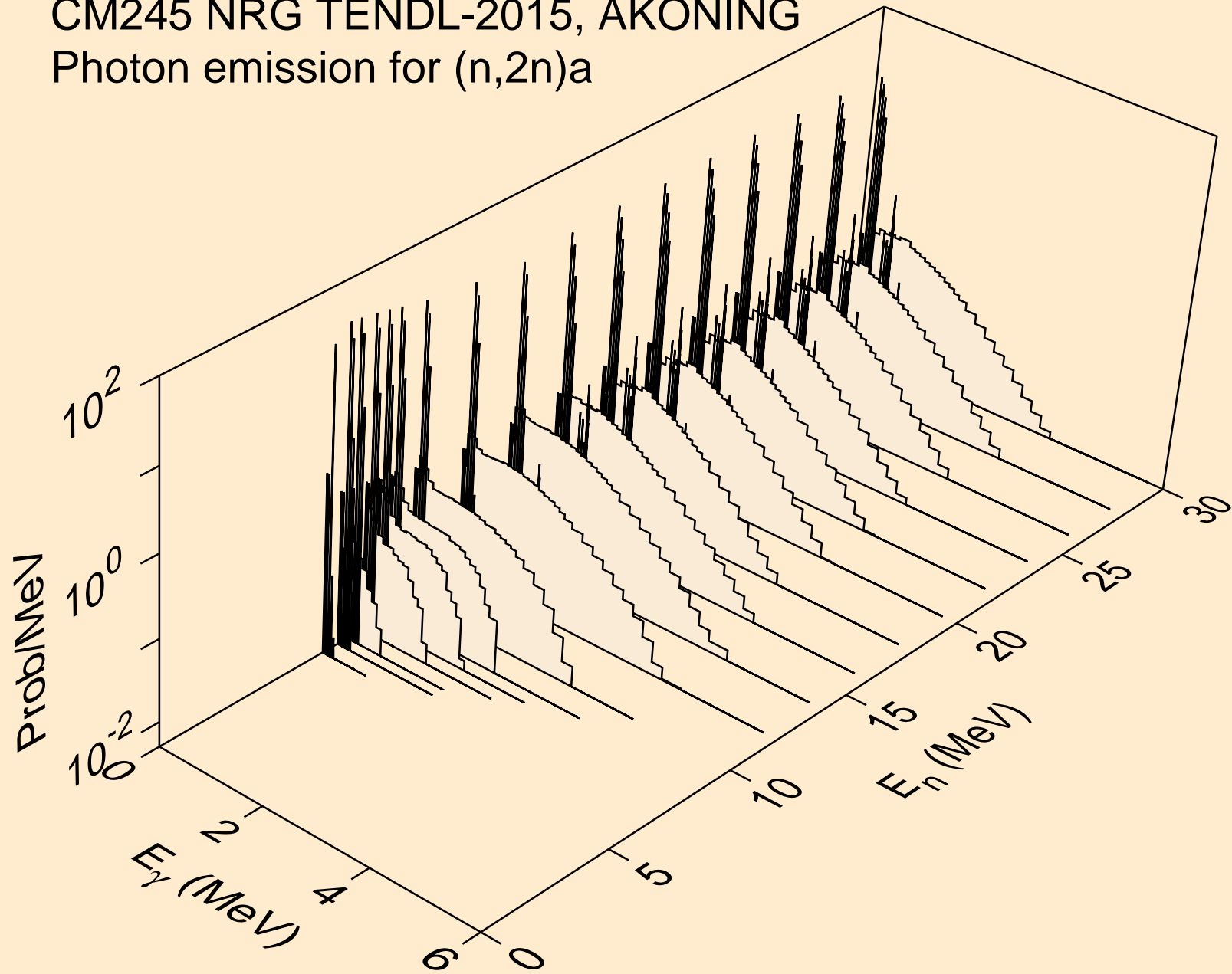Delayed neutron spectra

group 1 frac 0.0222 decay/shake 1.340E-10
group 2 frac 0.1788 decay/shake 3.070E-10
group 3 frac 0.1672 decay/shake 1.130E-09
group 4 frac 0.3706 decay/shake 3.001E-09
group 5 frac 0.2054 decay/shake 8.340E-09
group 6 frac 0.0559 decay/shake 2.769E-08

Probability

Energy (MeV)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,x)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,2nd)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,2n)

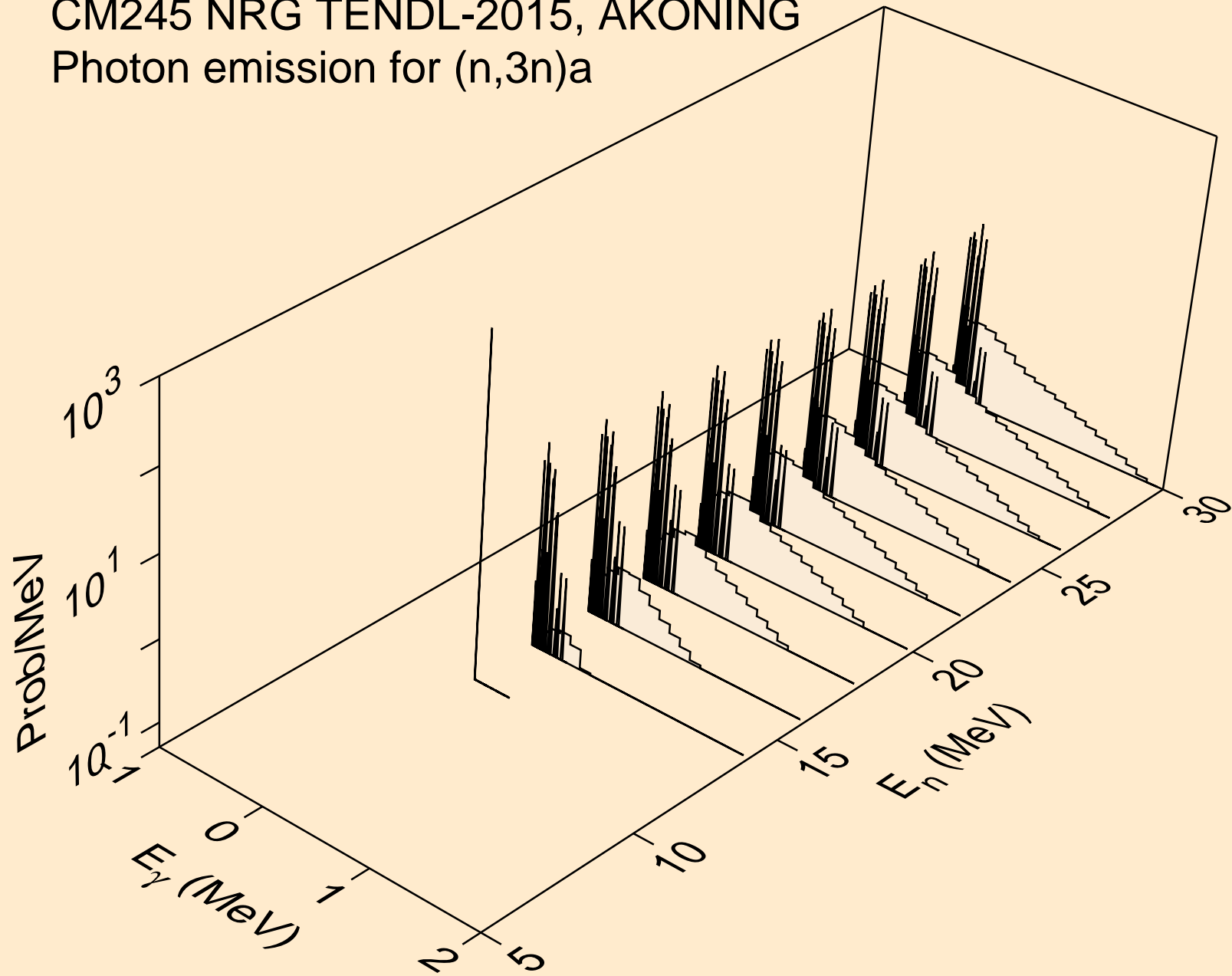CM245 NRG TENDL-2015, AKONING
Photon emission for (n,3n)
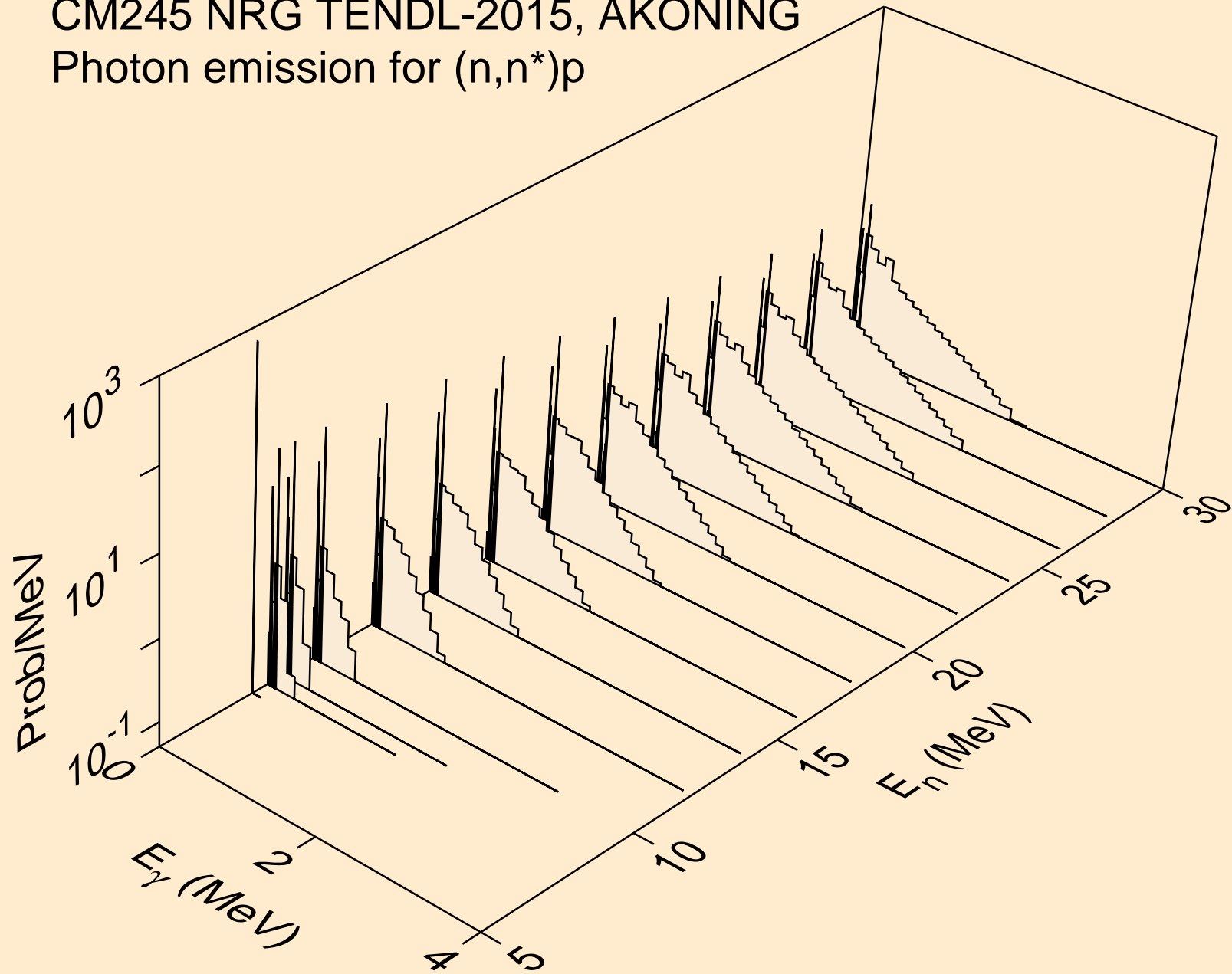
CM245 NRG TENDL-2015, AKONING
Photon emission for (n,n*)a
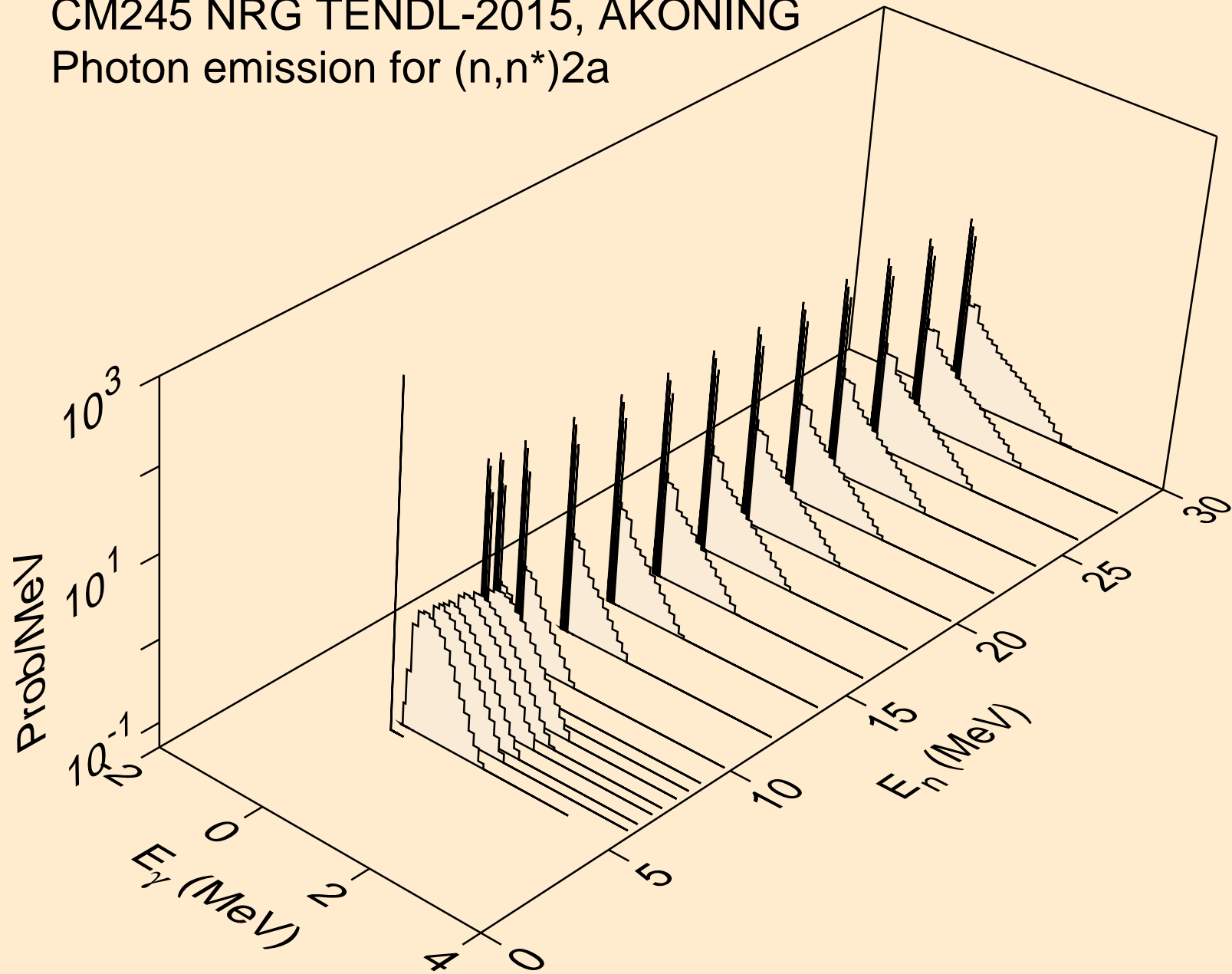
CM245 NRG TENDL-2015, AKONING
Photon emission for (n,2n)a
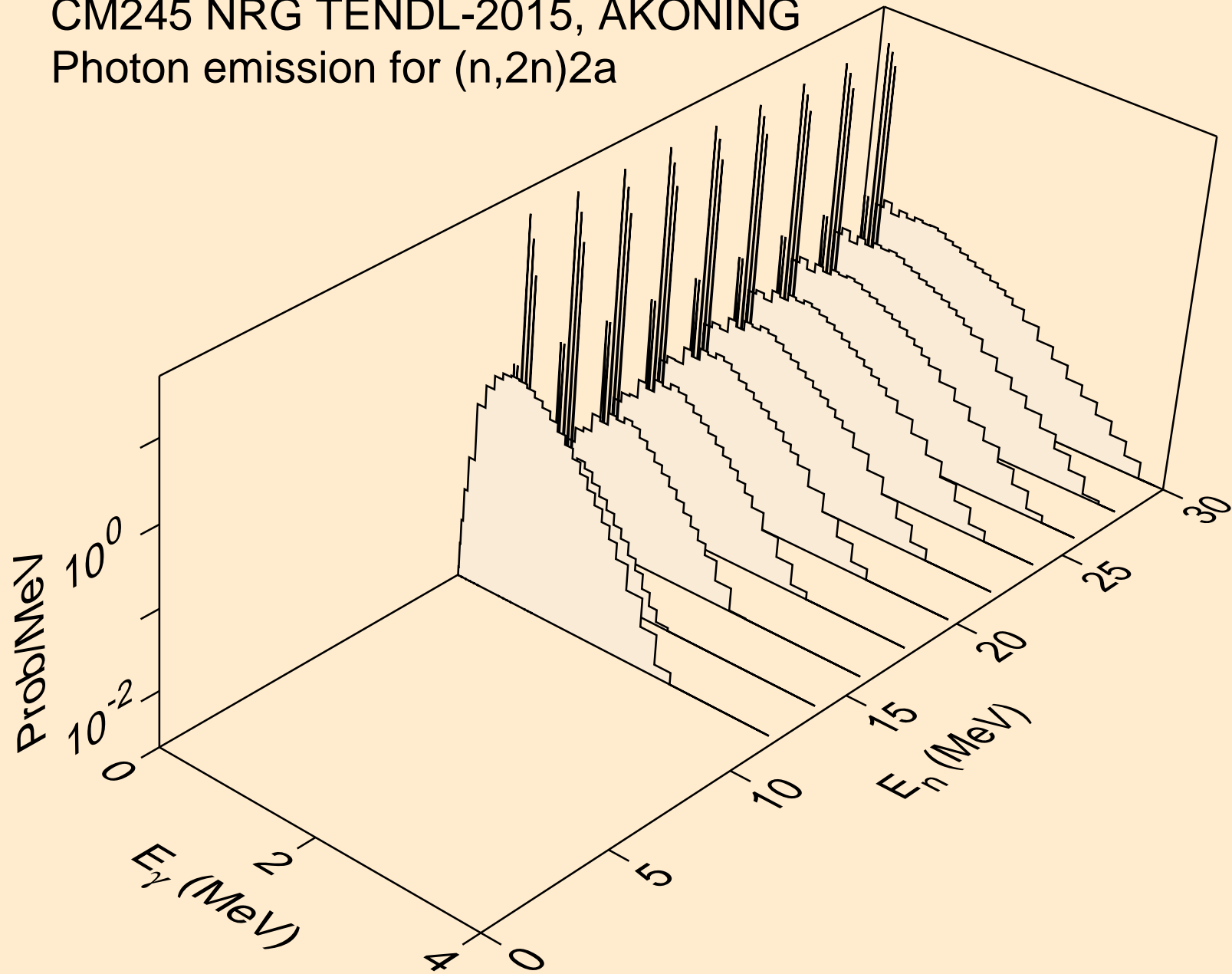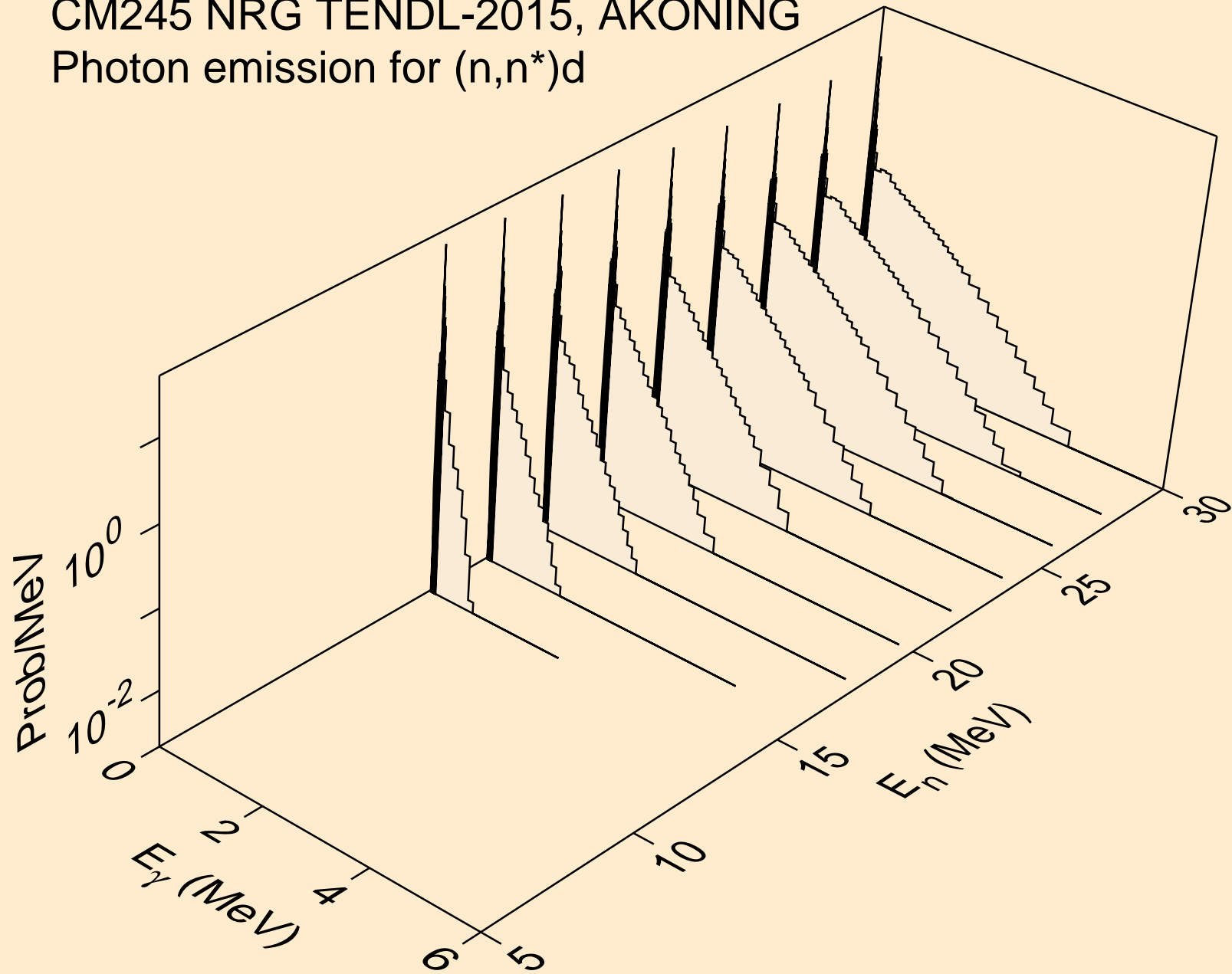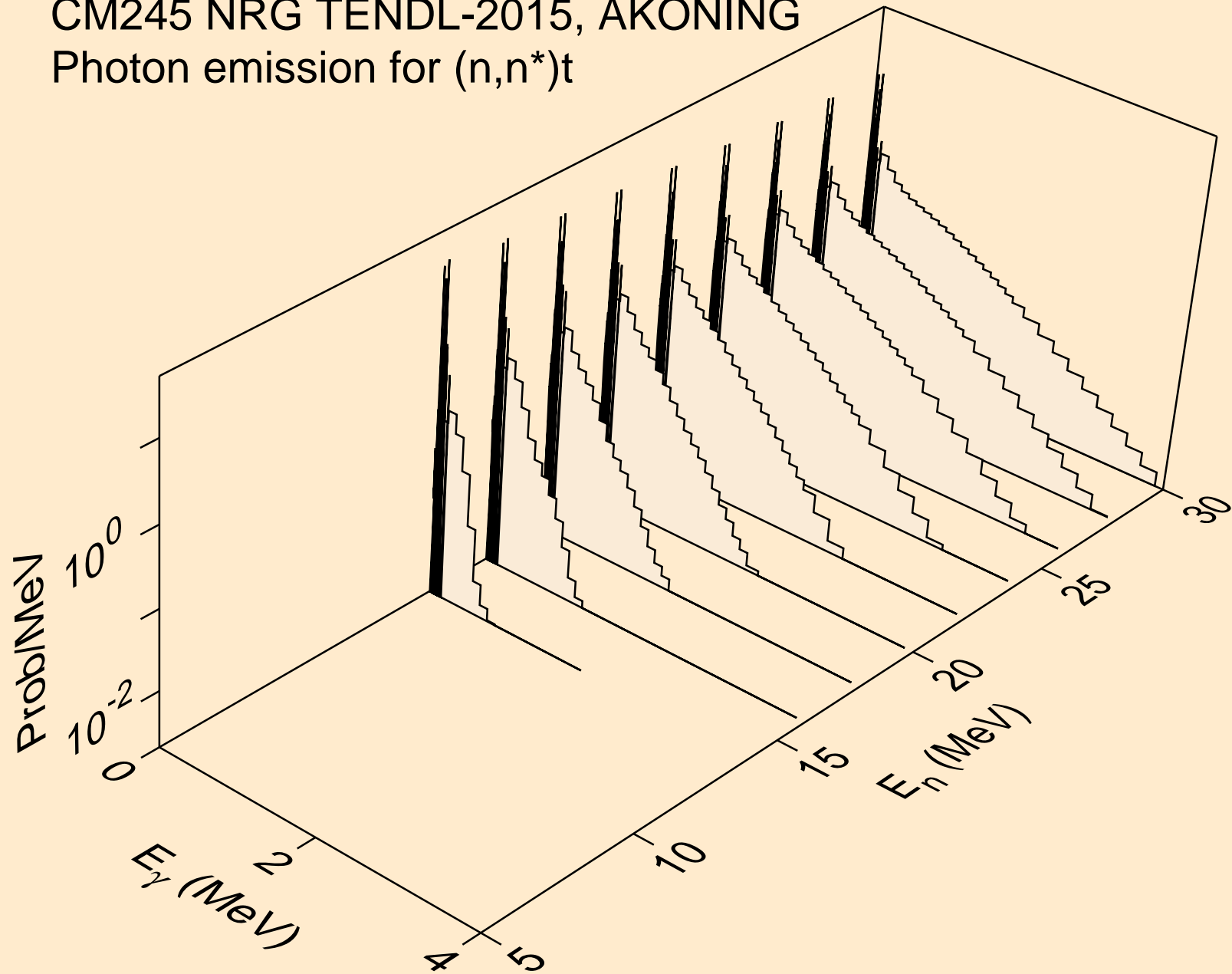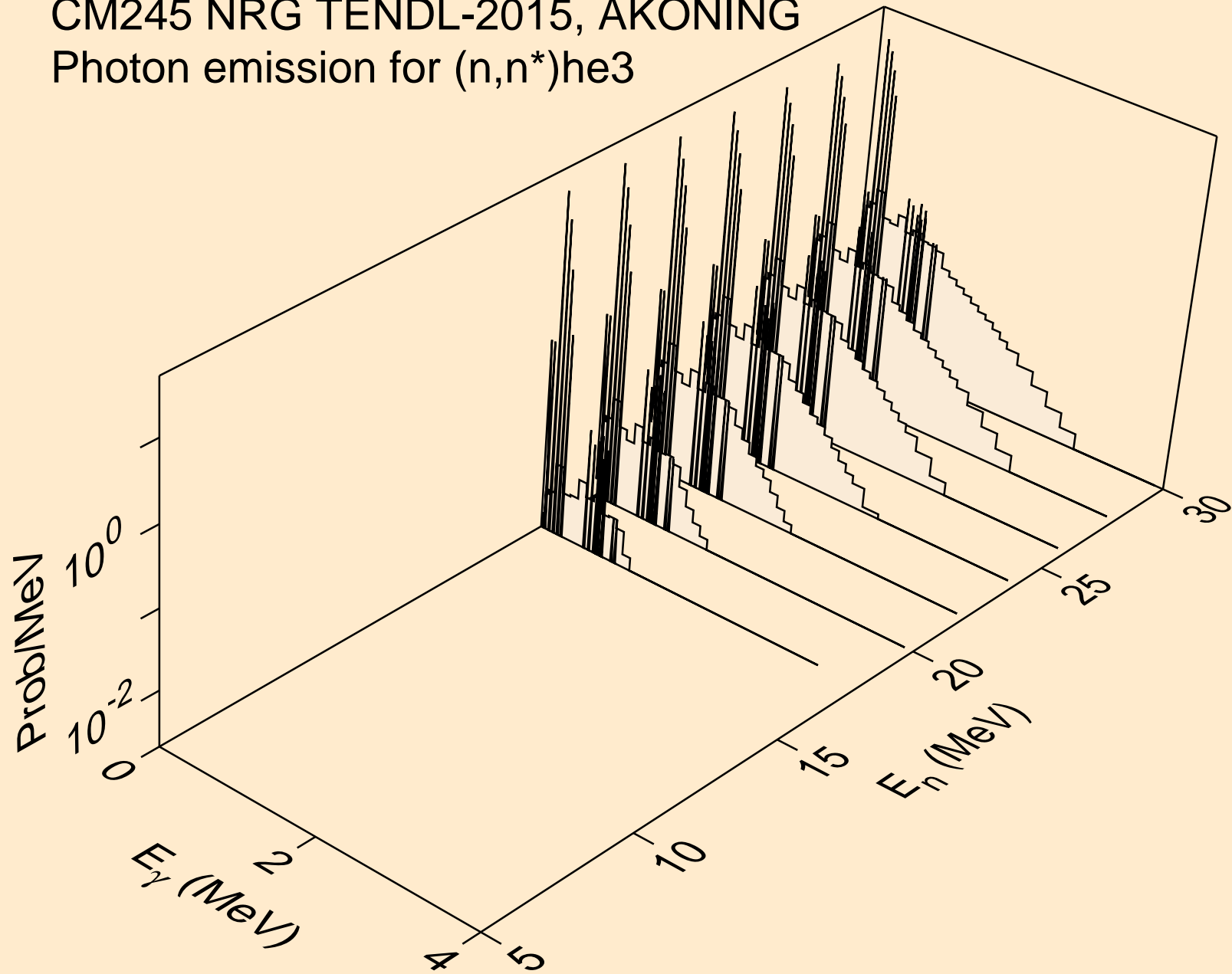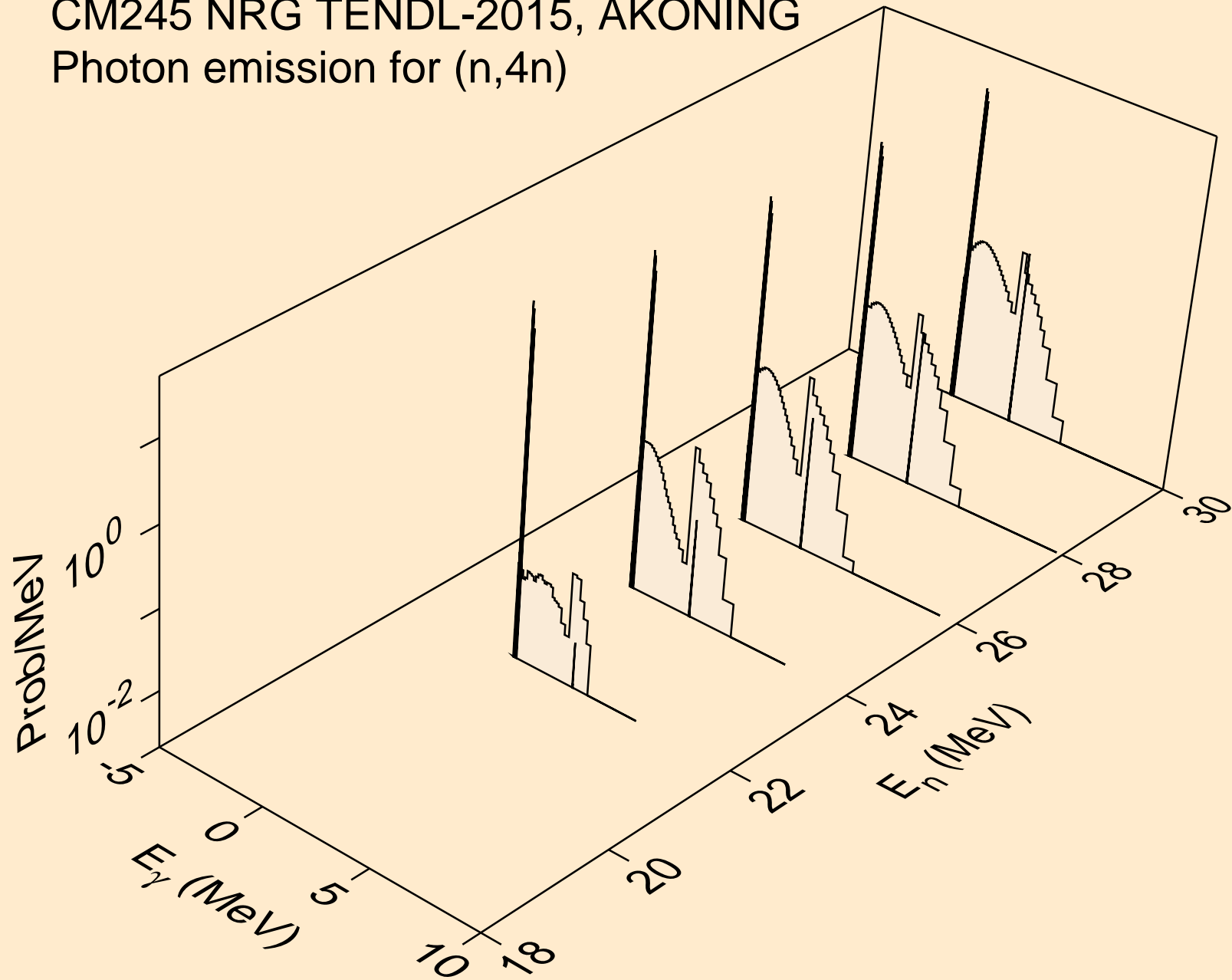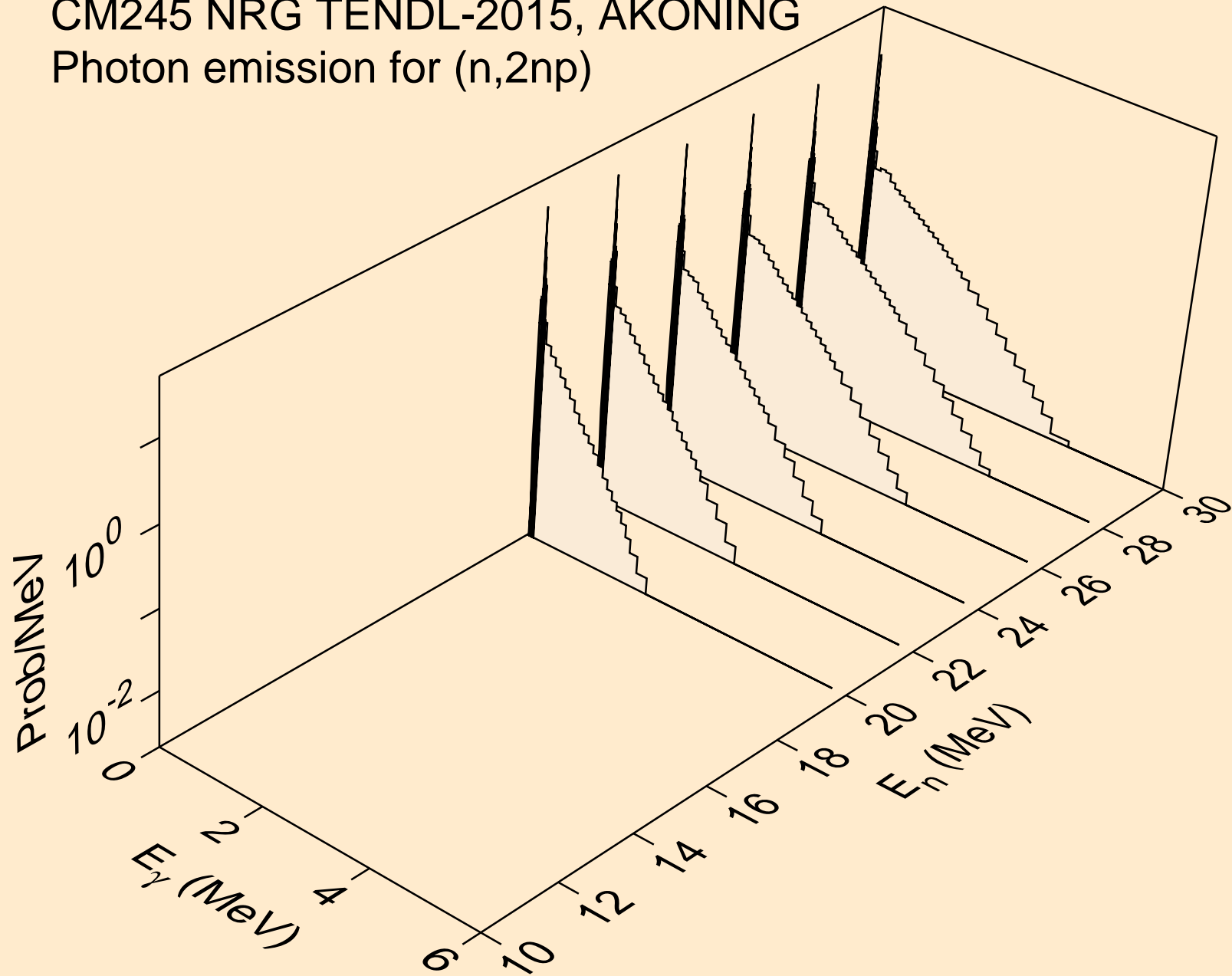
CM245 NRG TENDL-2015, AKONING
Photon emission for (n,3n)a

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,n*)p

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,n*)2a

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,2n)2a

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,n*)d

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,n*)t

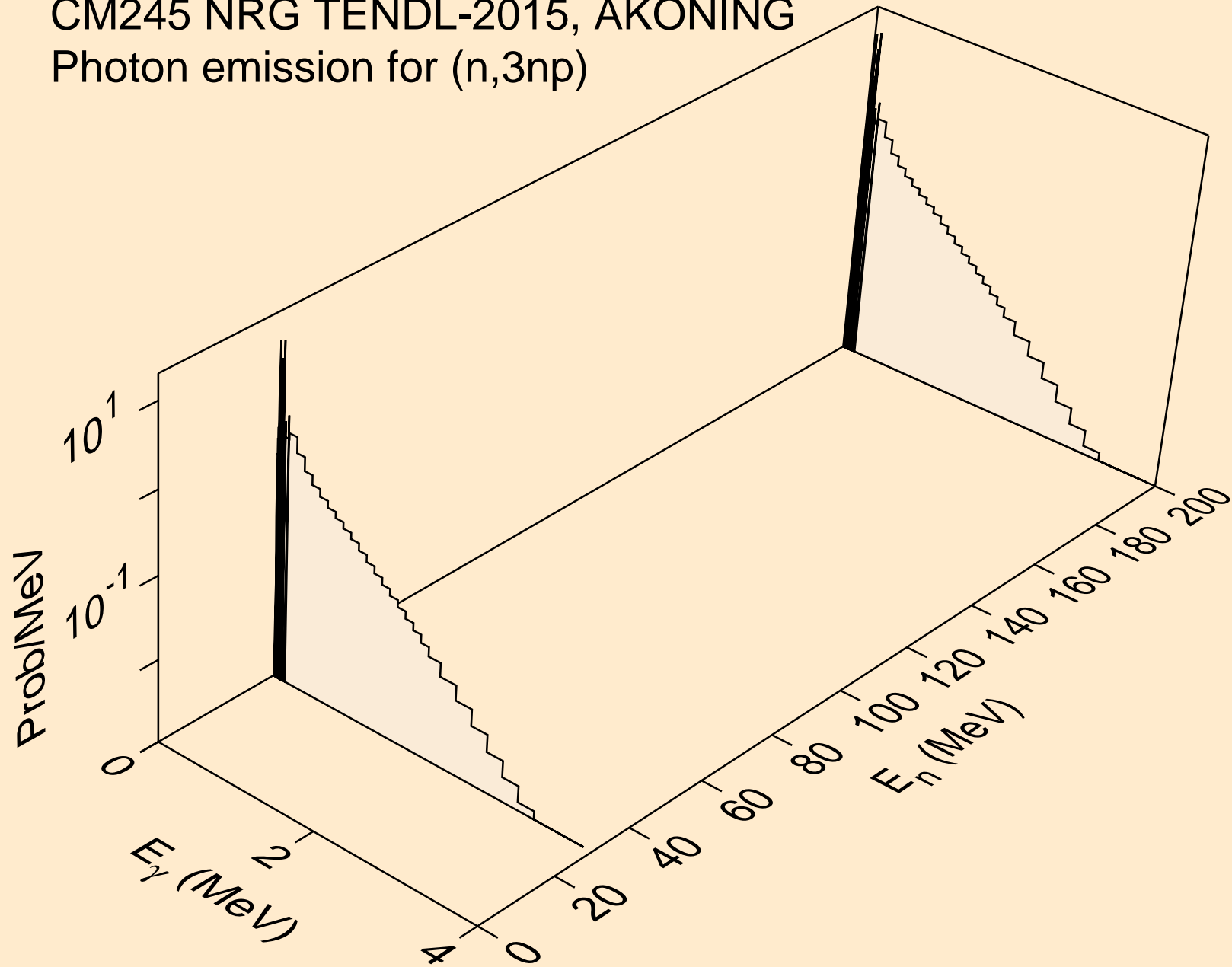CM245 NRG TENDL-2015, AKONING
Photon emission for (n,n*)he3
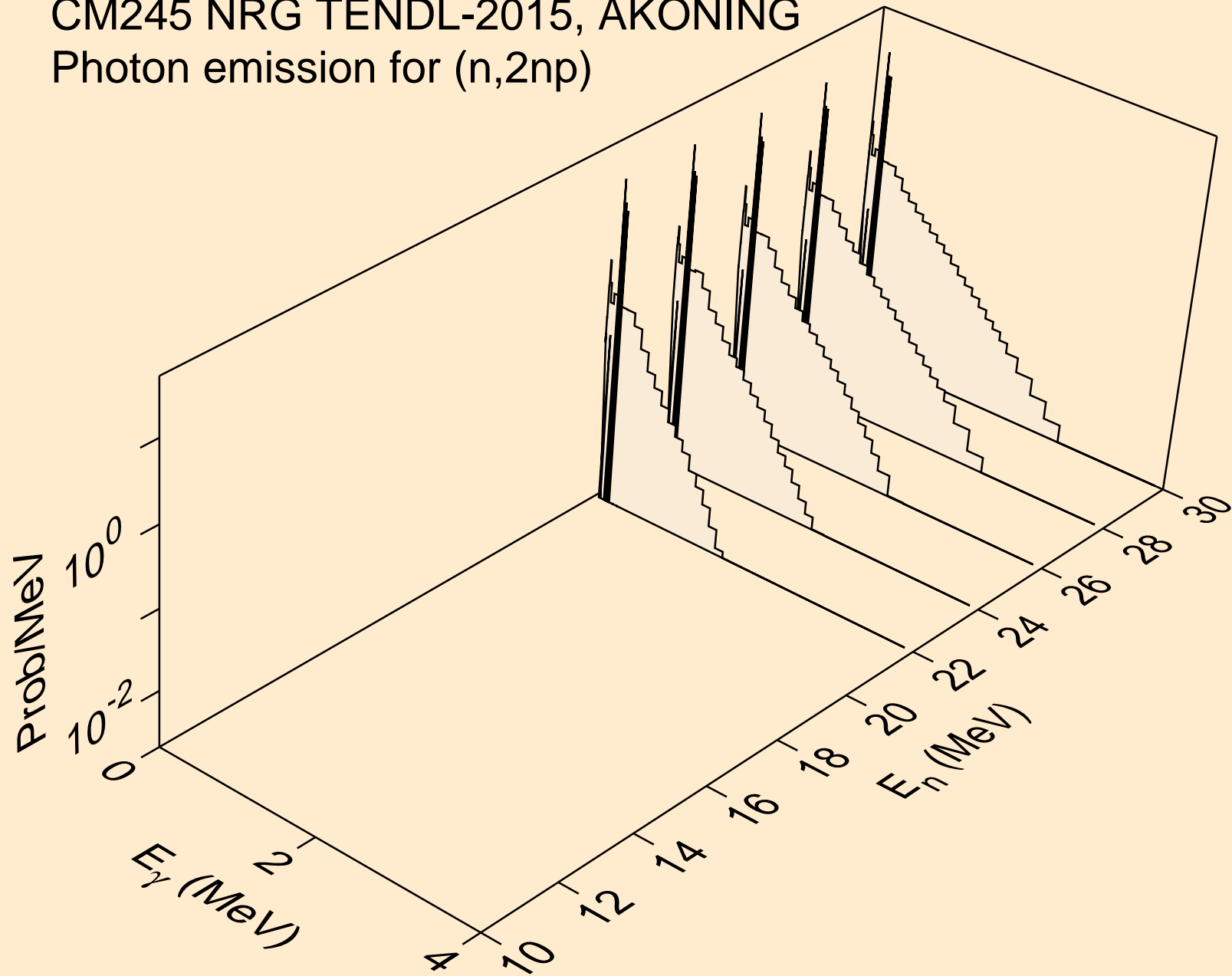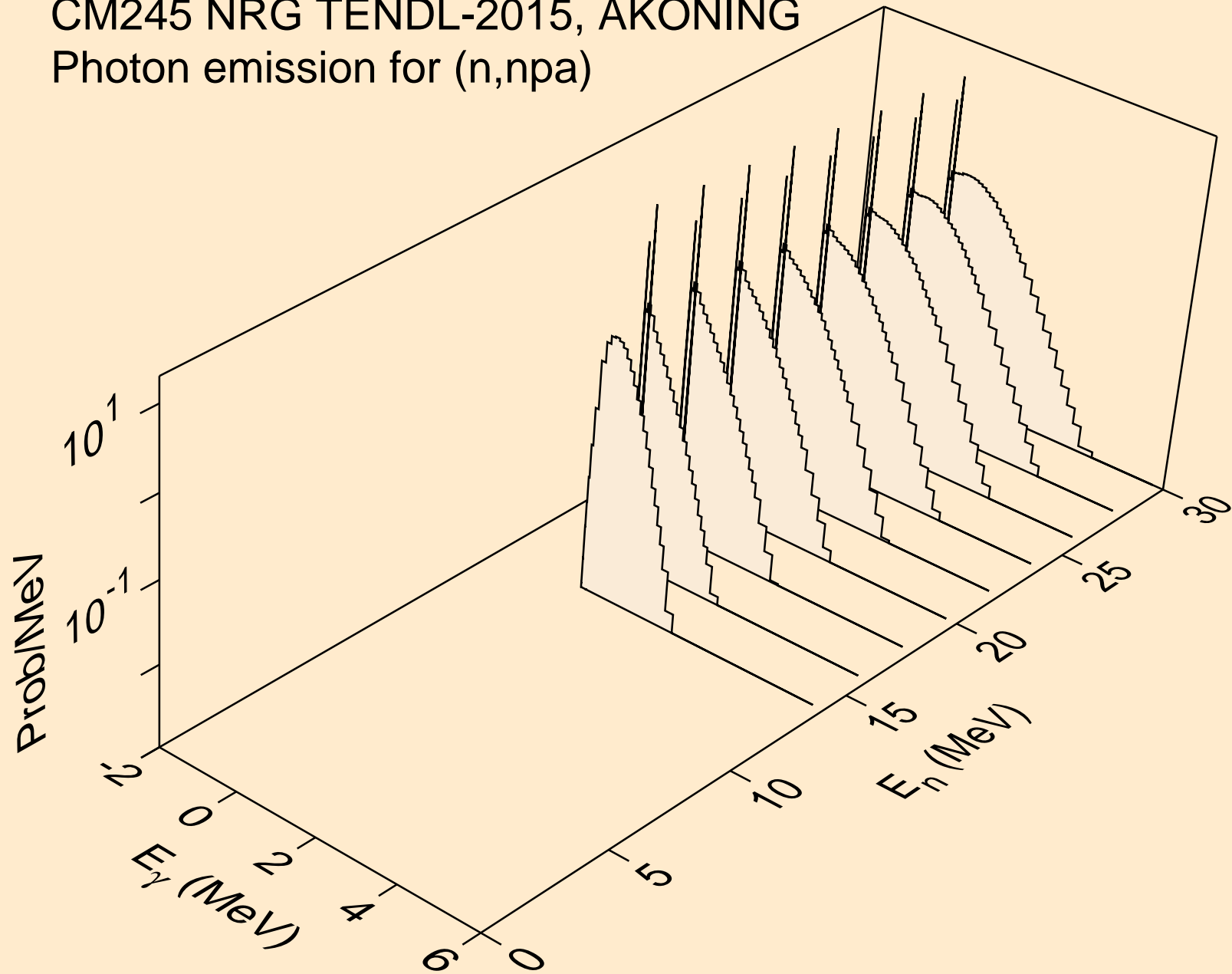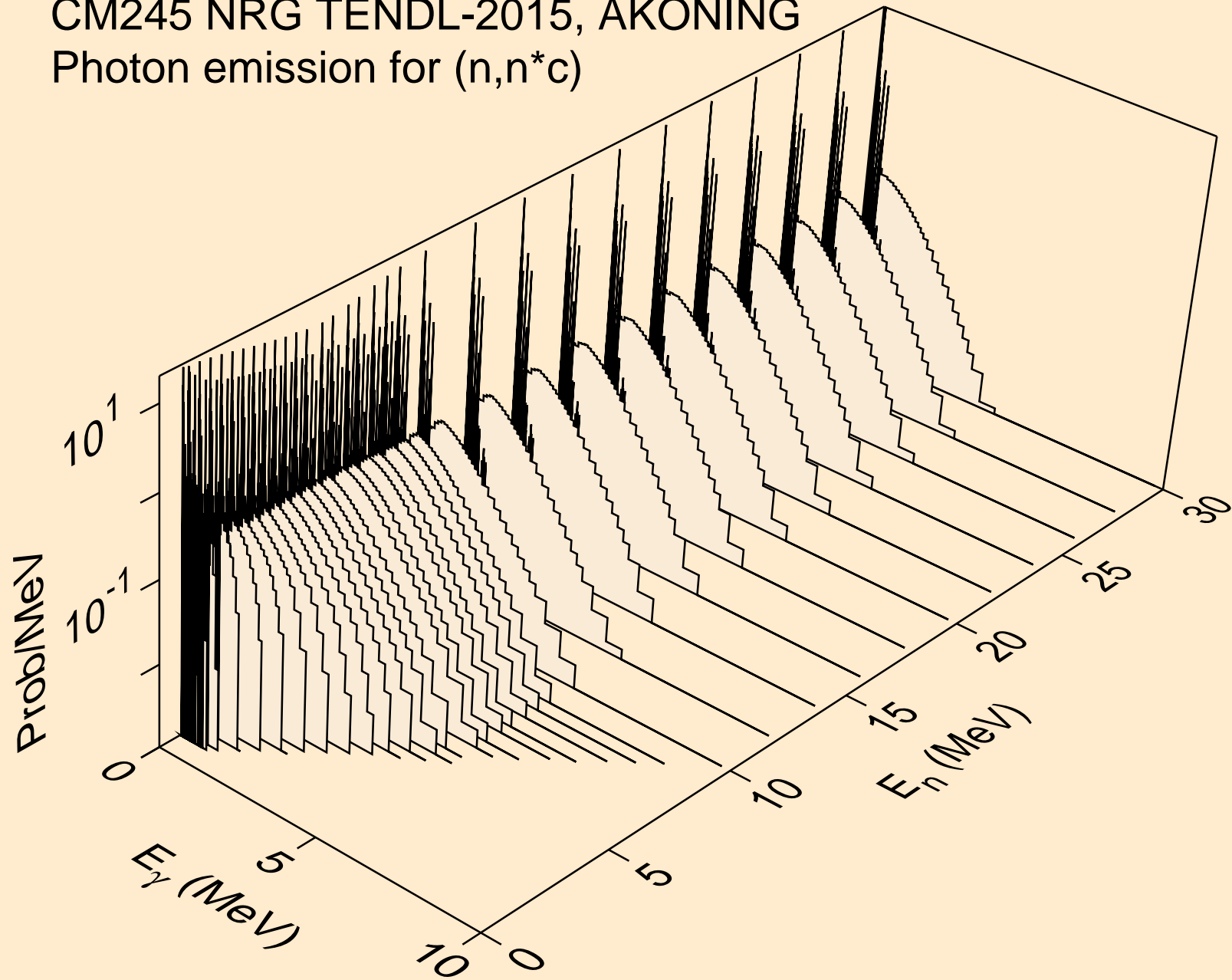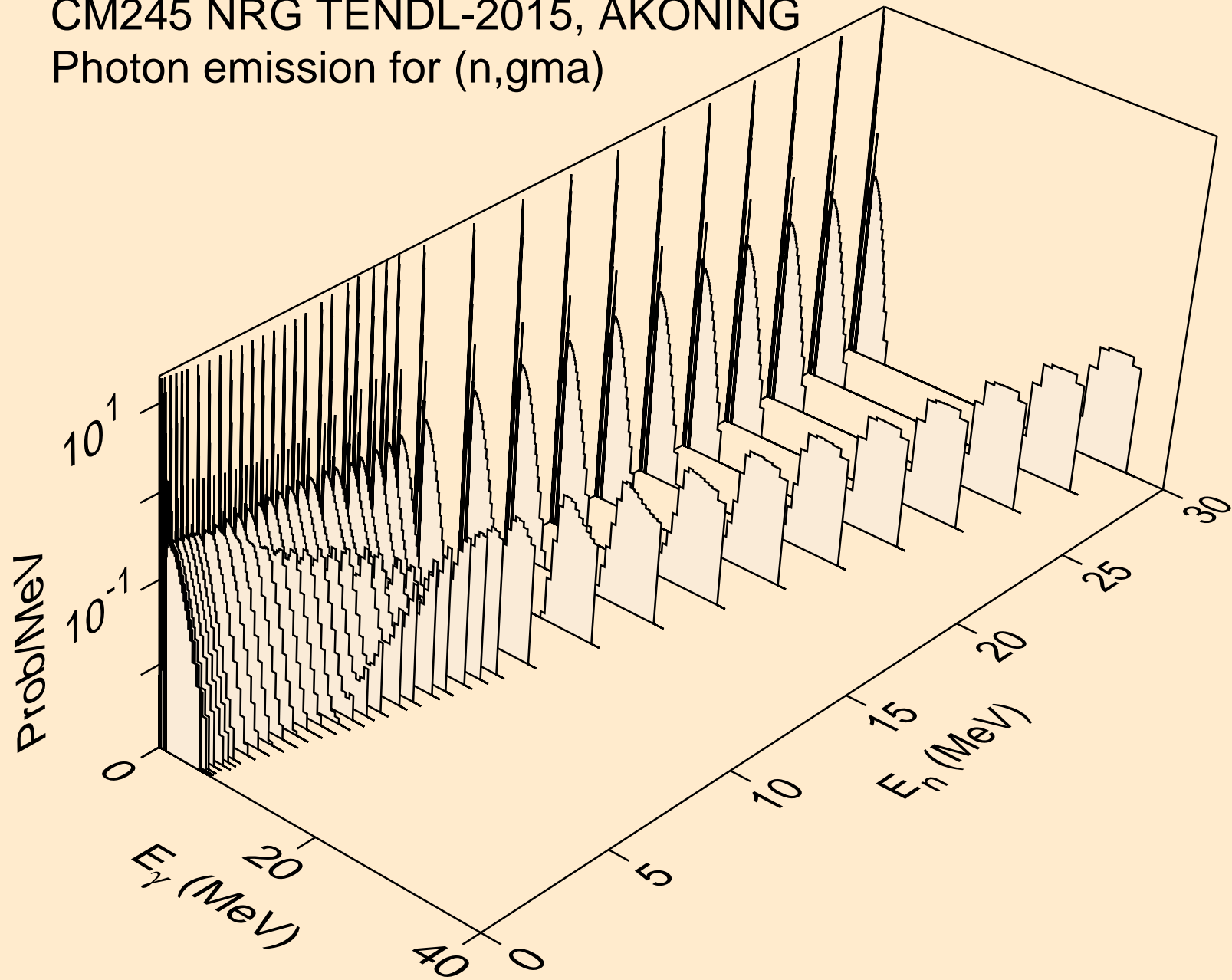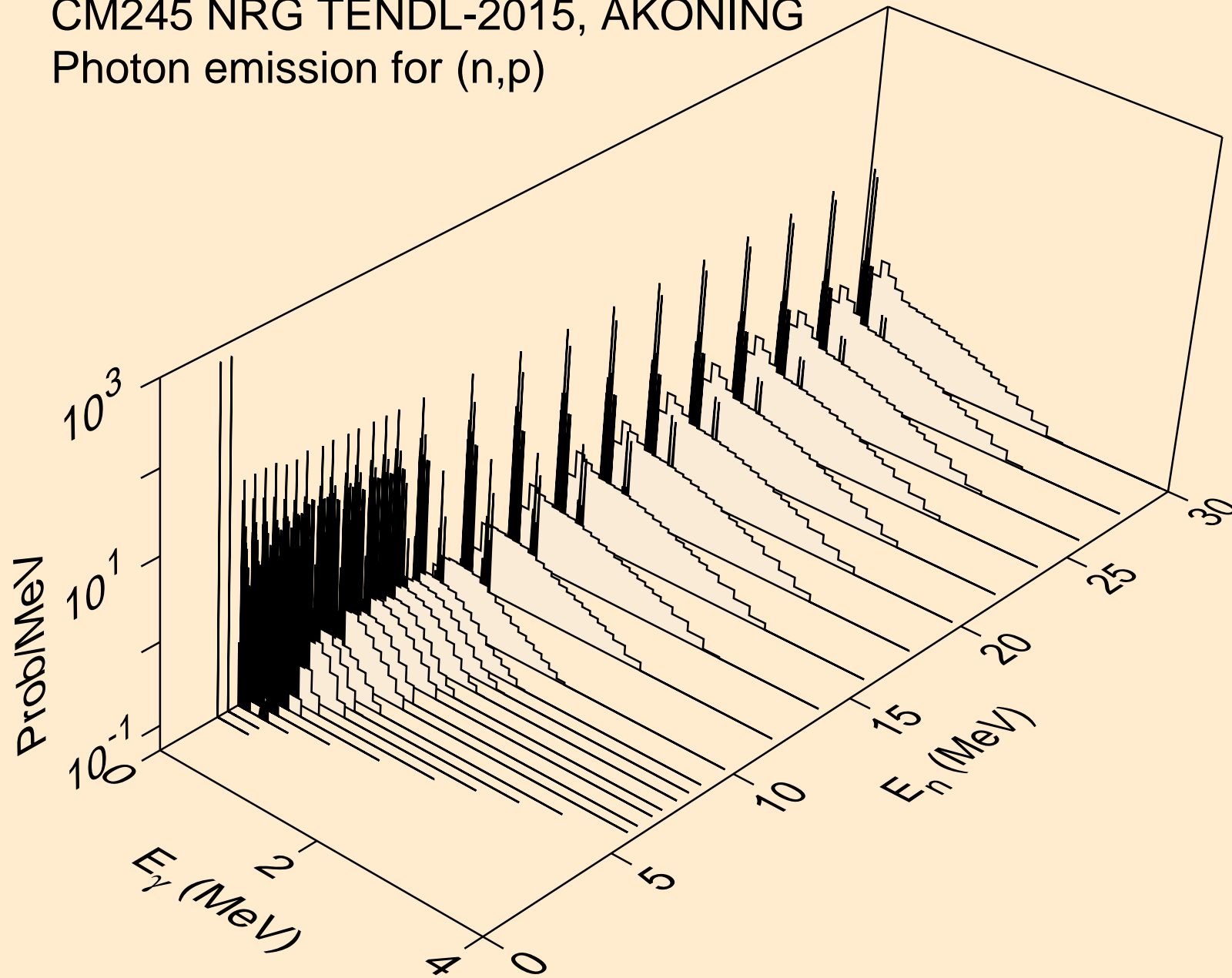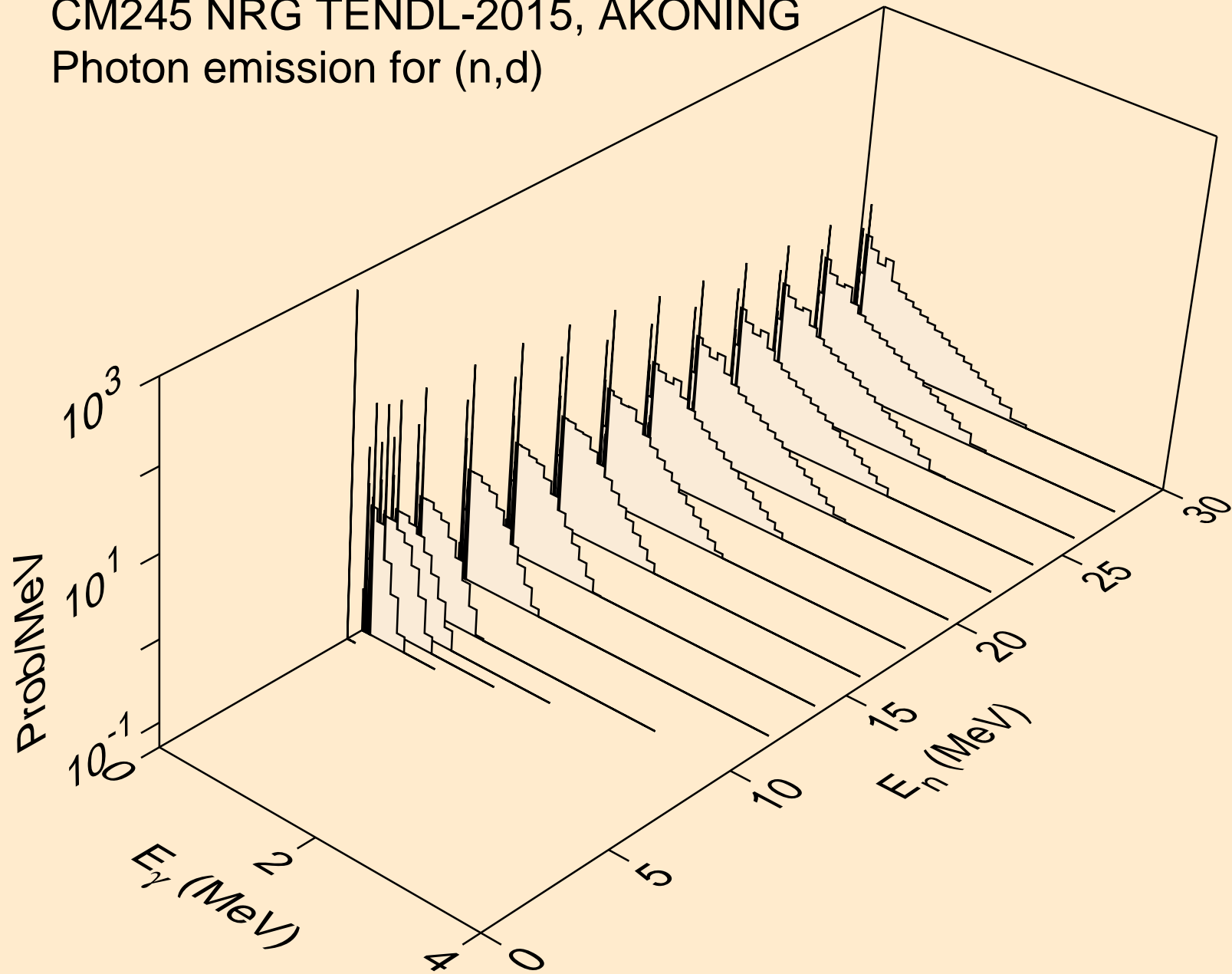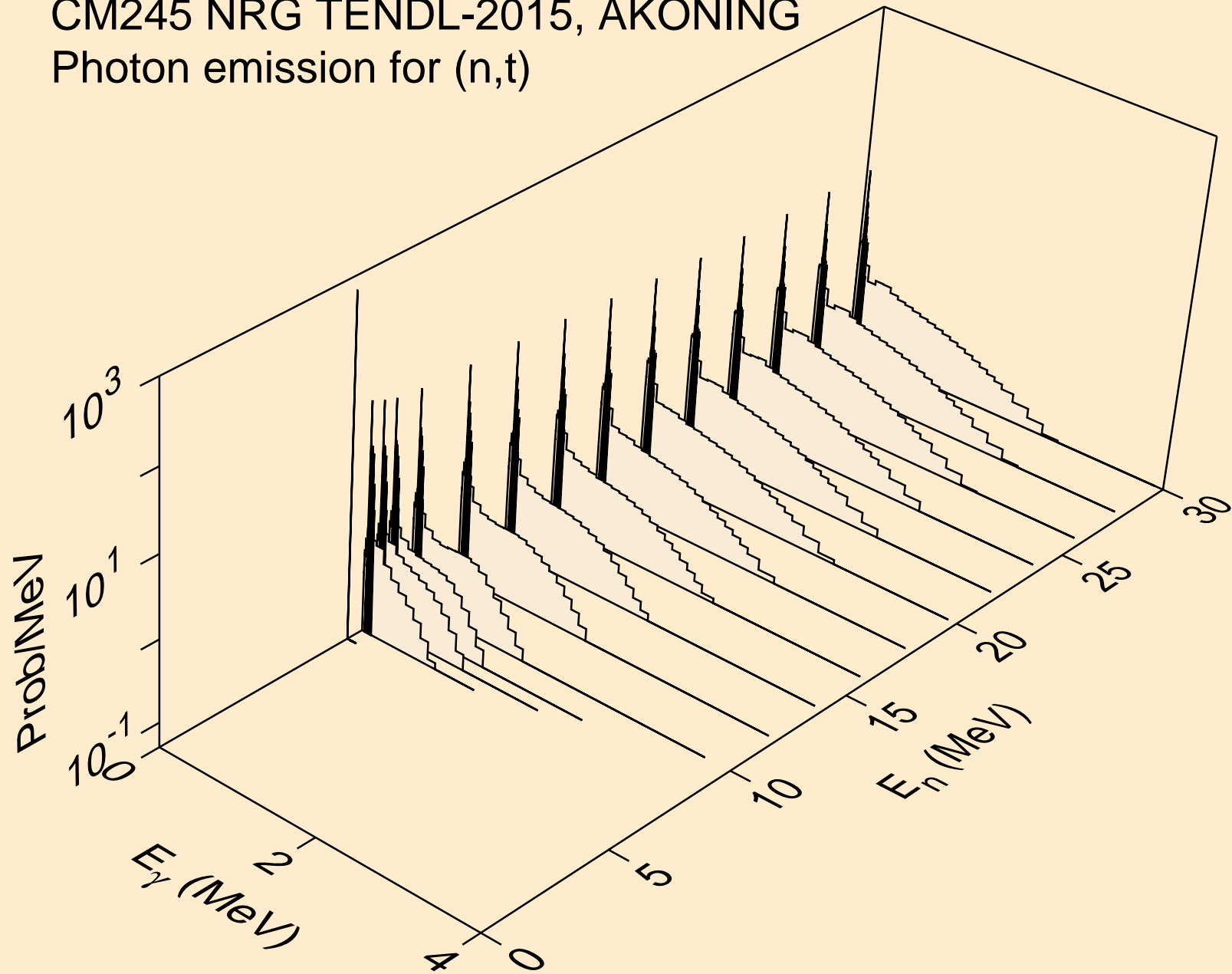
CM245 NRG TENDL-2015, AKONING
Photon emission for (n,4n)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,2np)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,3np)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,2np)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,npa)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,n*c)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,gma)
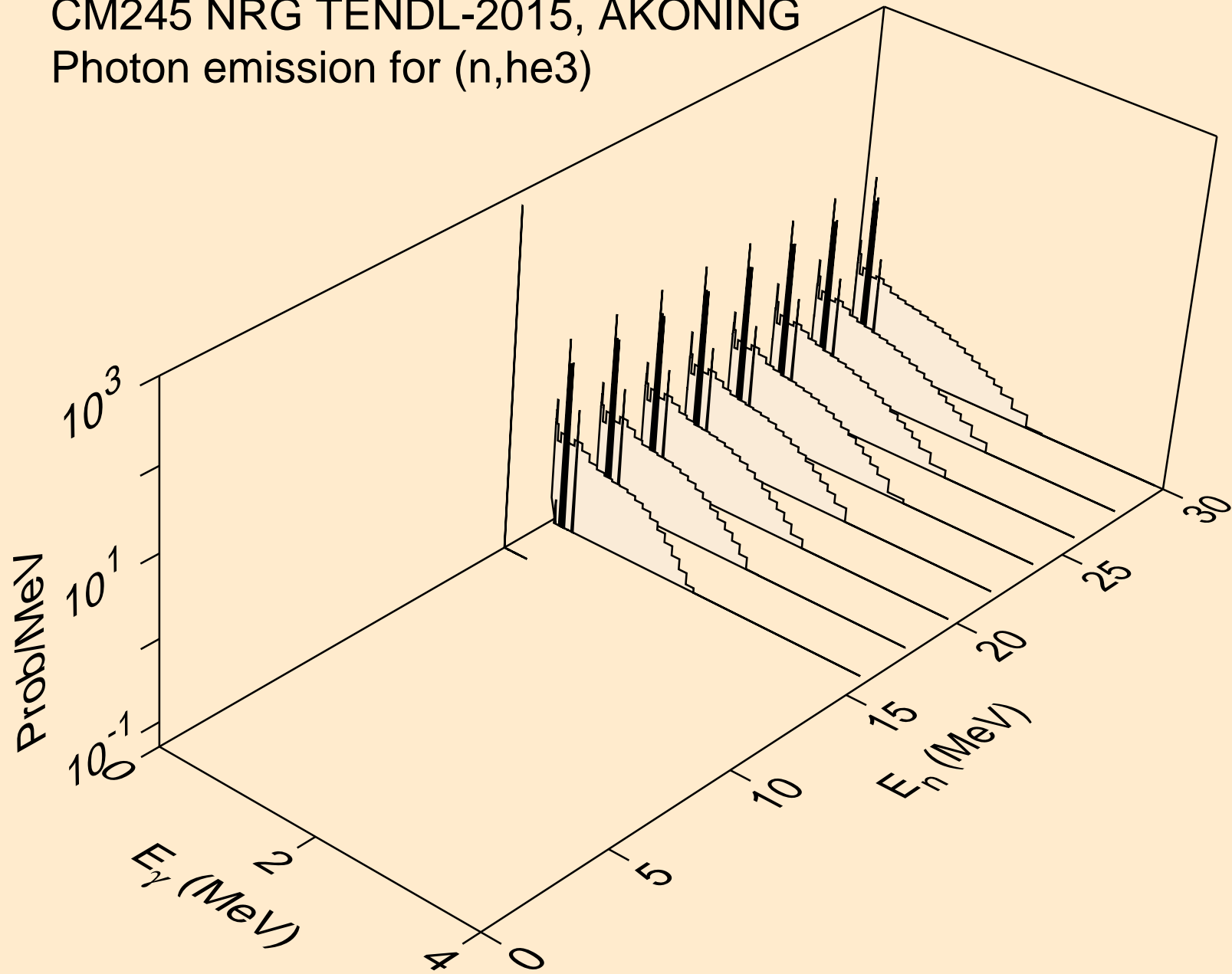
CM245 NRG TENDL-2015, AKONING
Photon emission for (n,p)
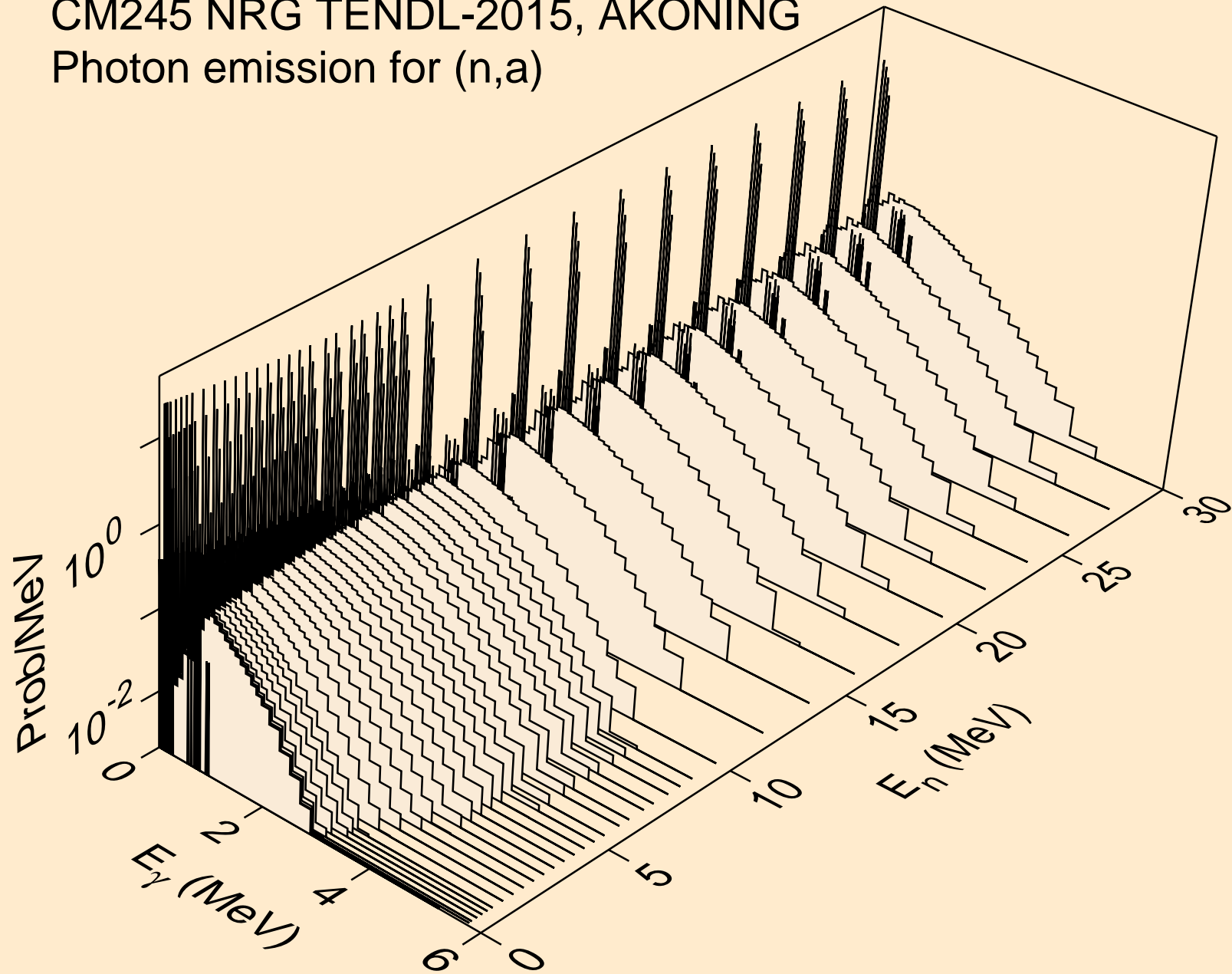
CM245 NRG TENDL-2015, AKONING
Photon emission for (n,d)

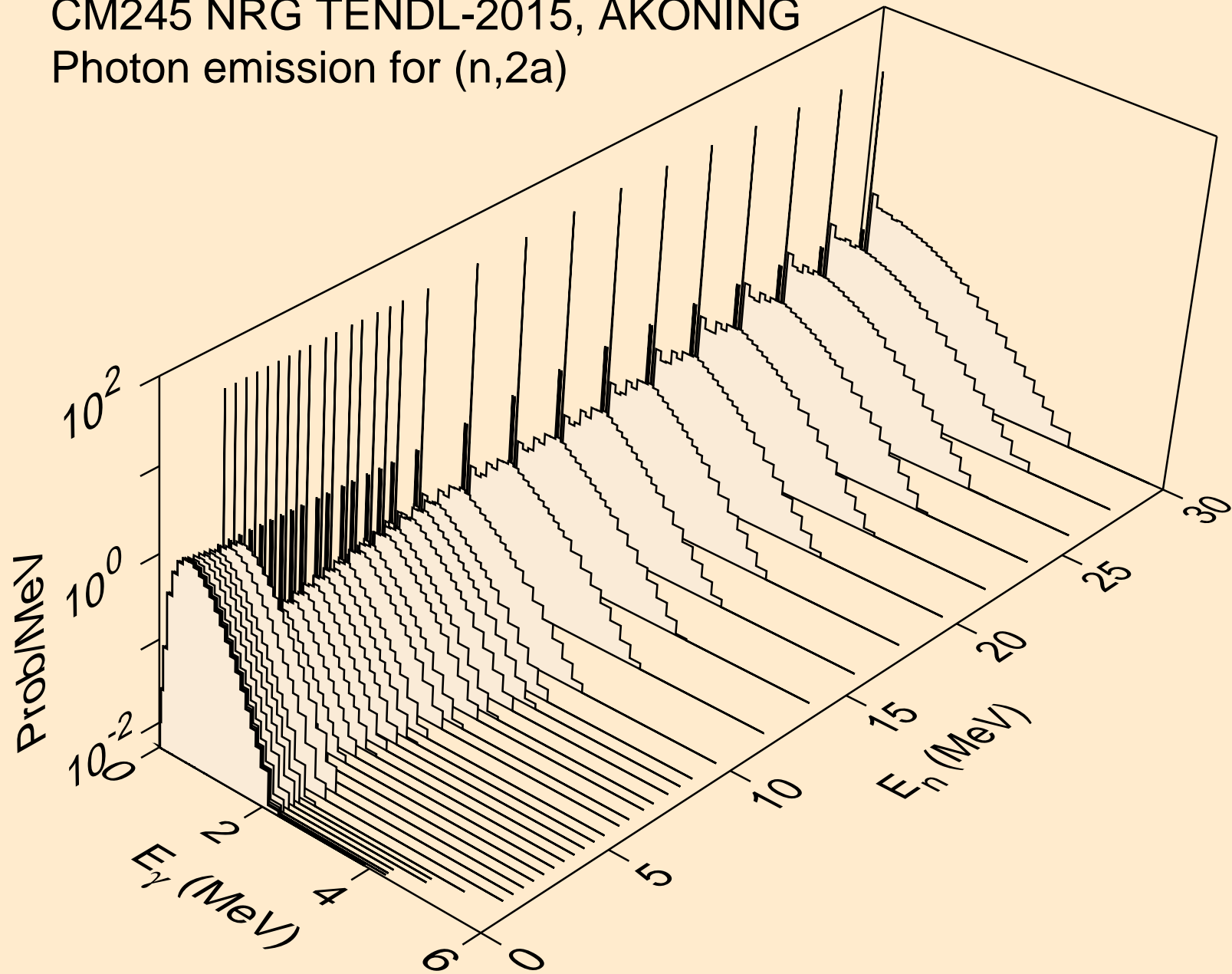CM245 NRG TENDL-2015, AKONING
Photon emission for (n,t)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,he3)

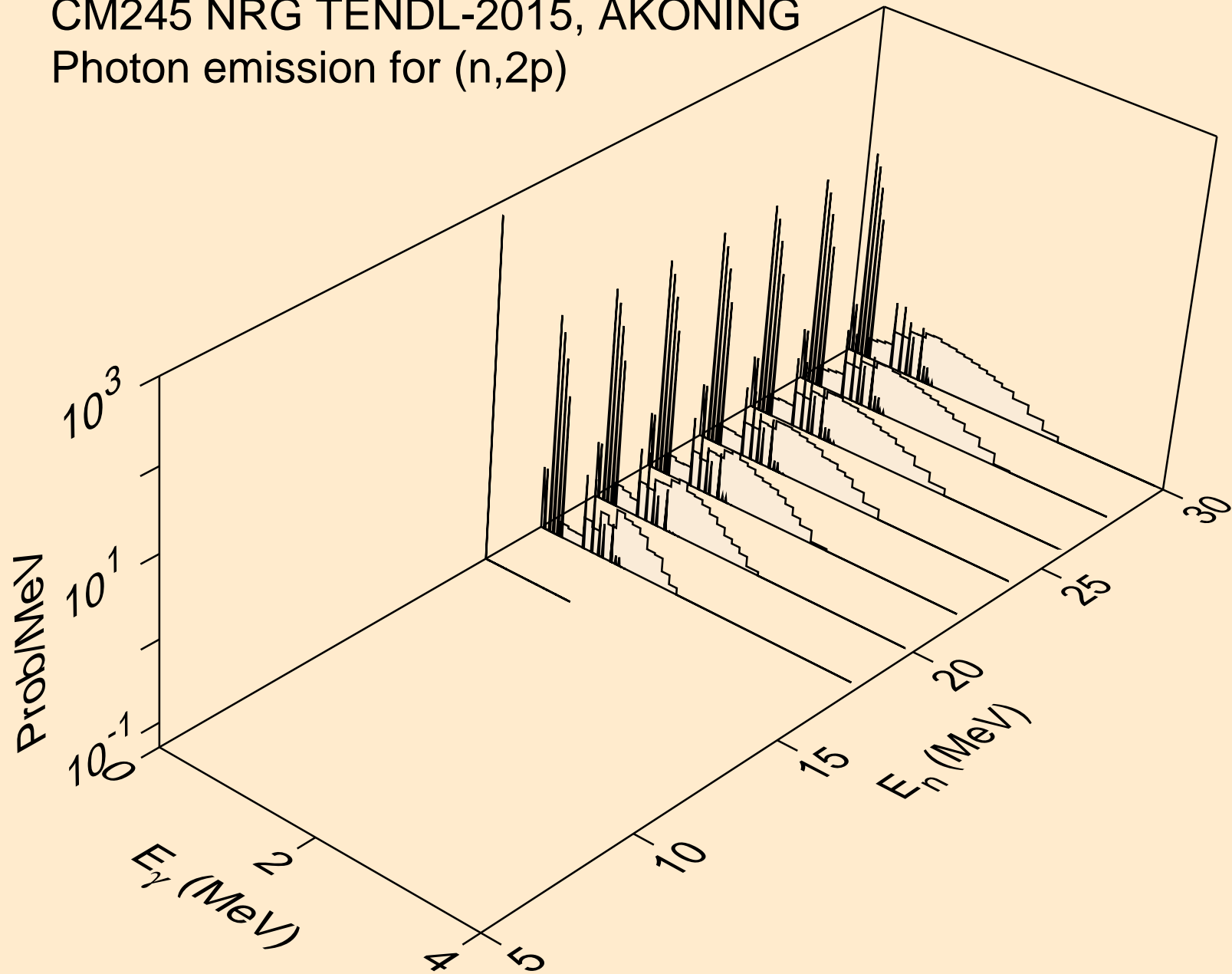CM245 NRG TENDL-2015, AKONING
Photon emission for (n,a)

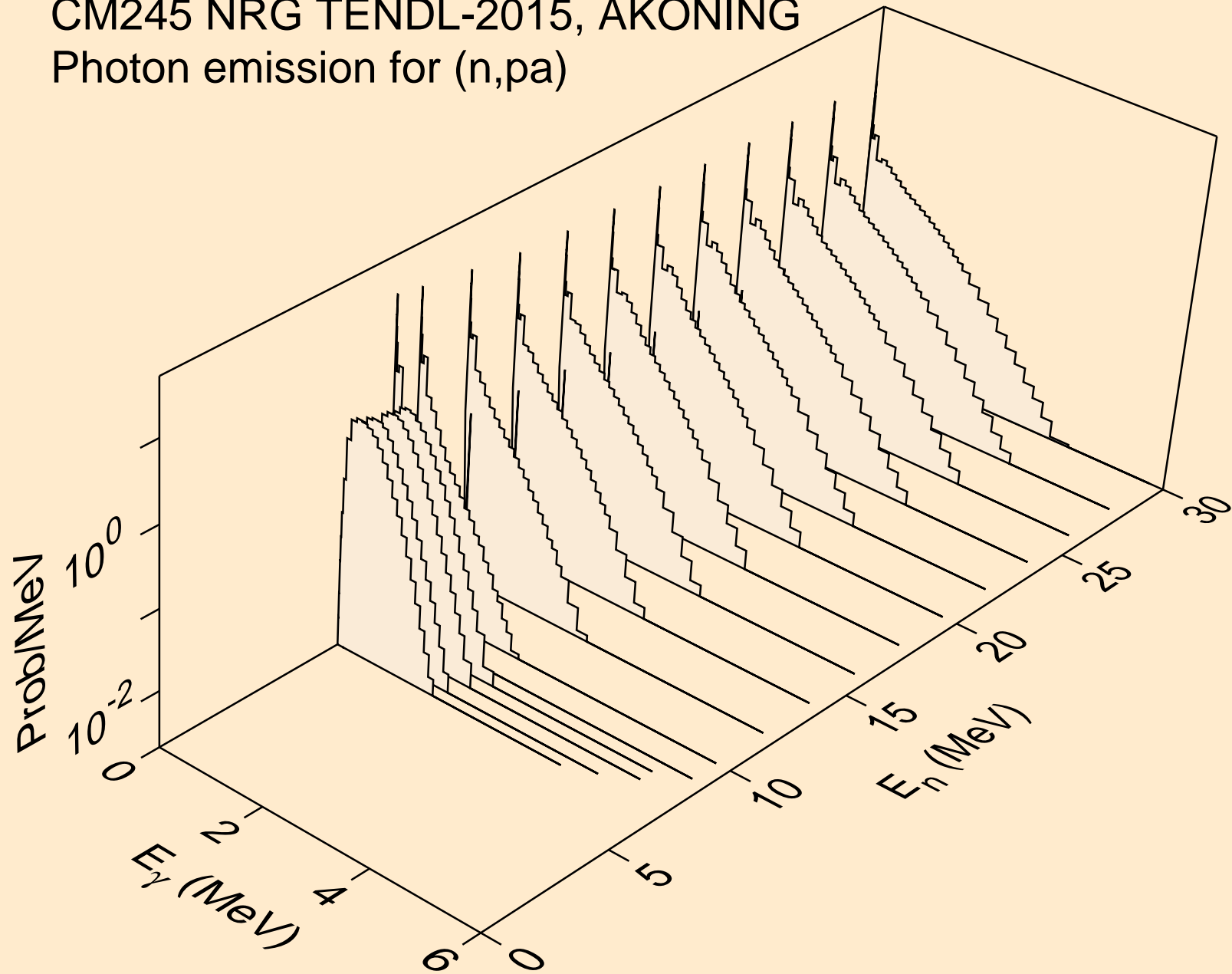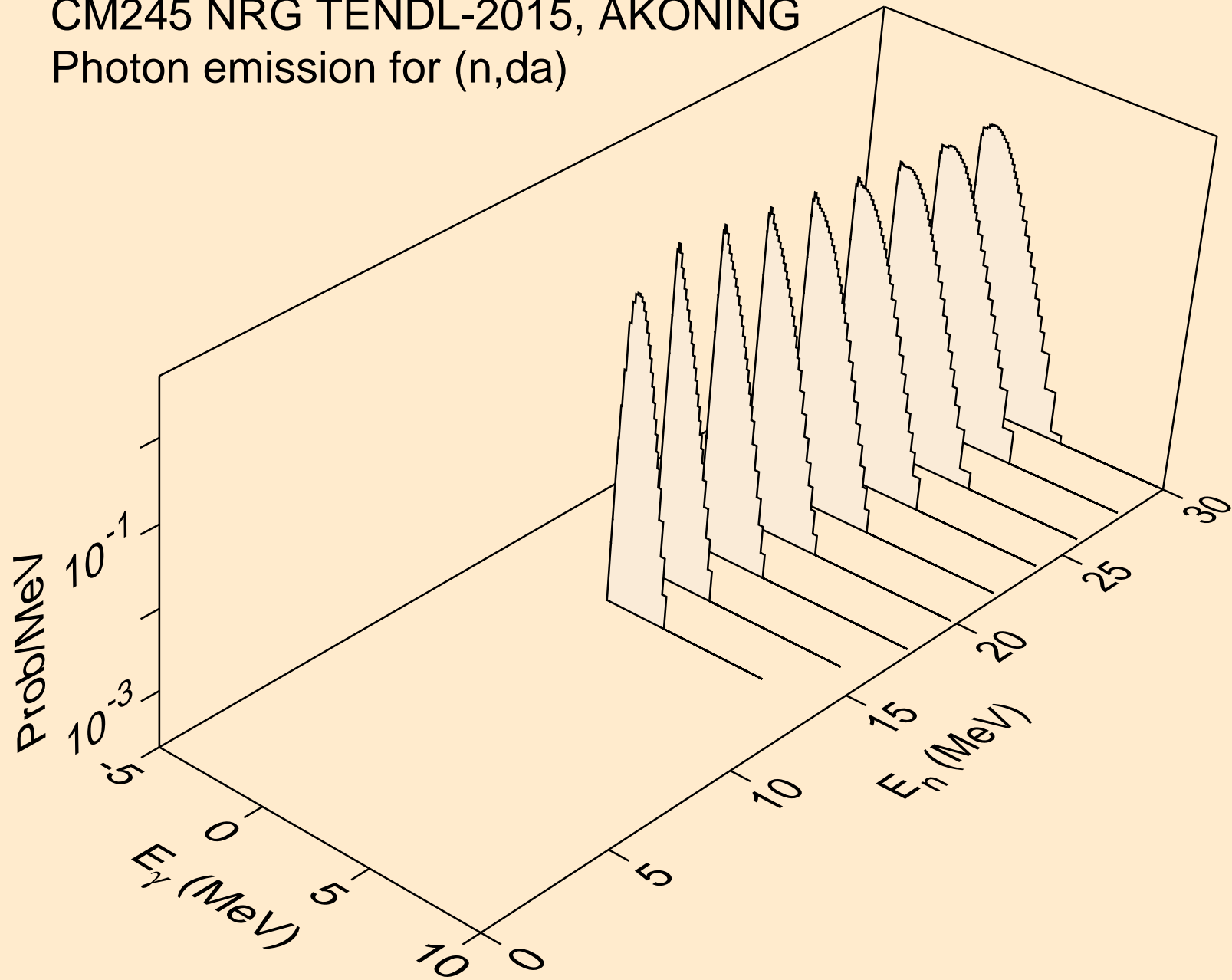CM245 NRG TENDL-2015, AKONING
Photon emission for (n,2a)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,2p)

CM245 NRG TENDL-2015, AKONING
Photon emission for (n,pa)

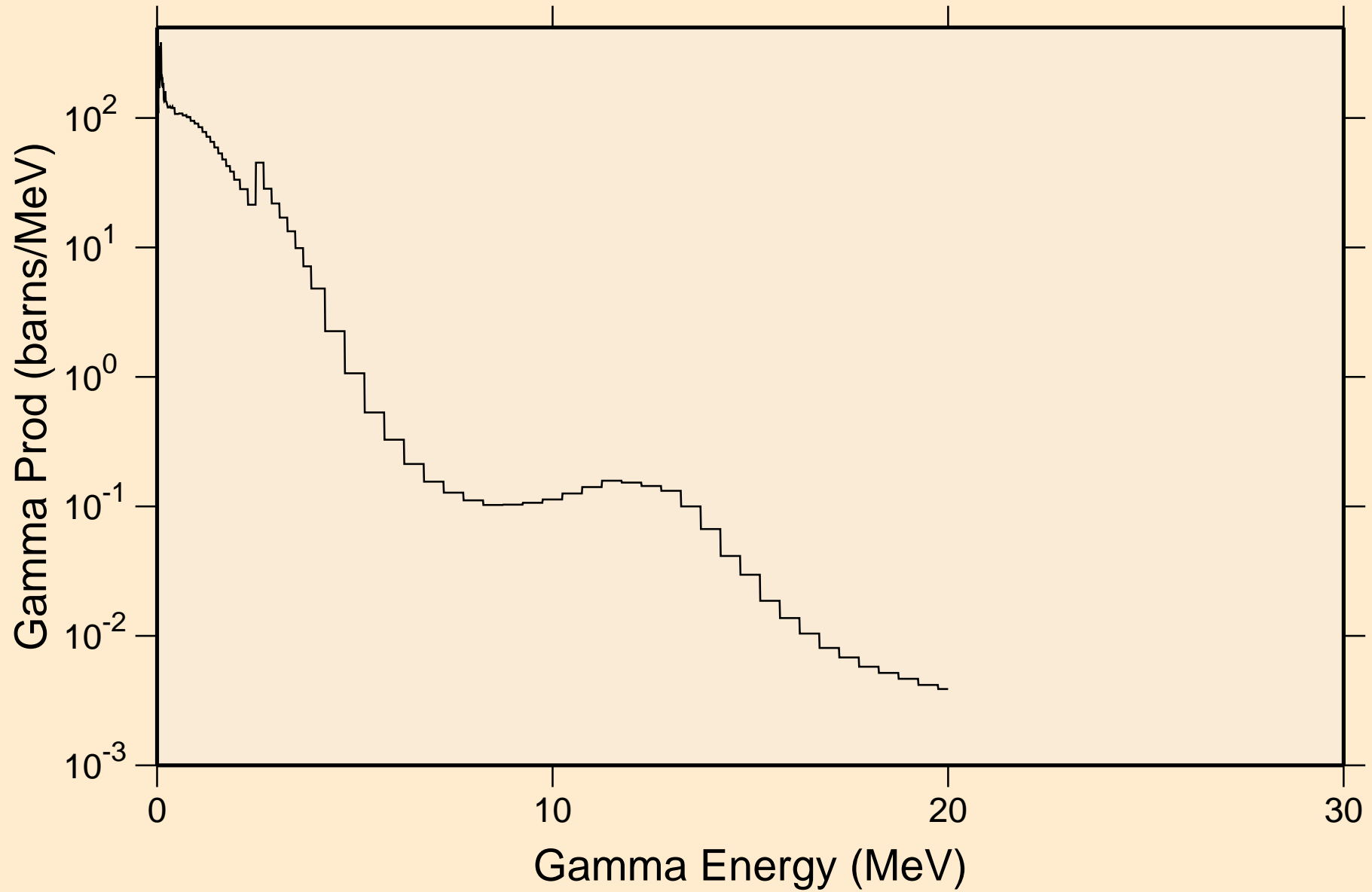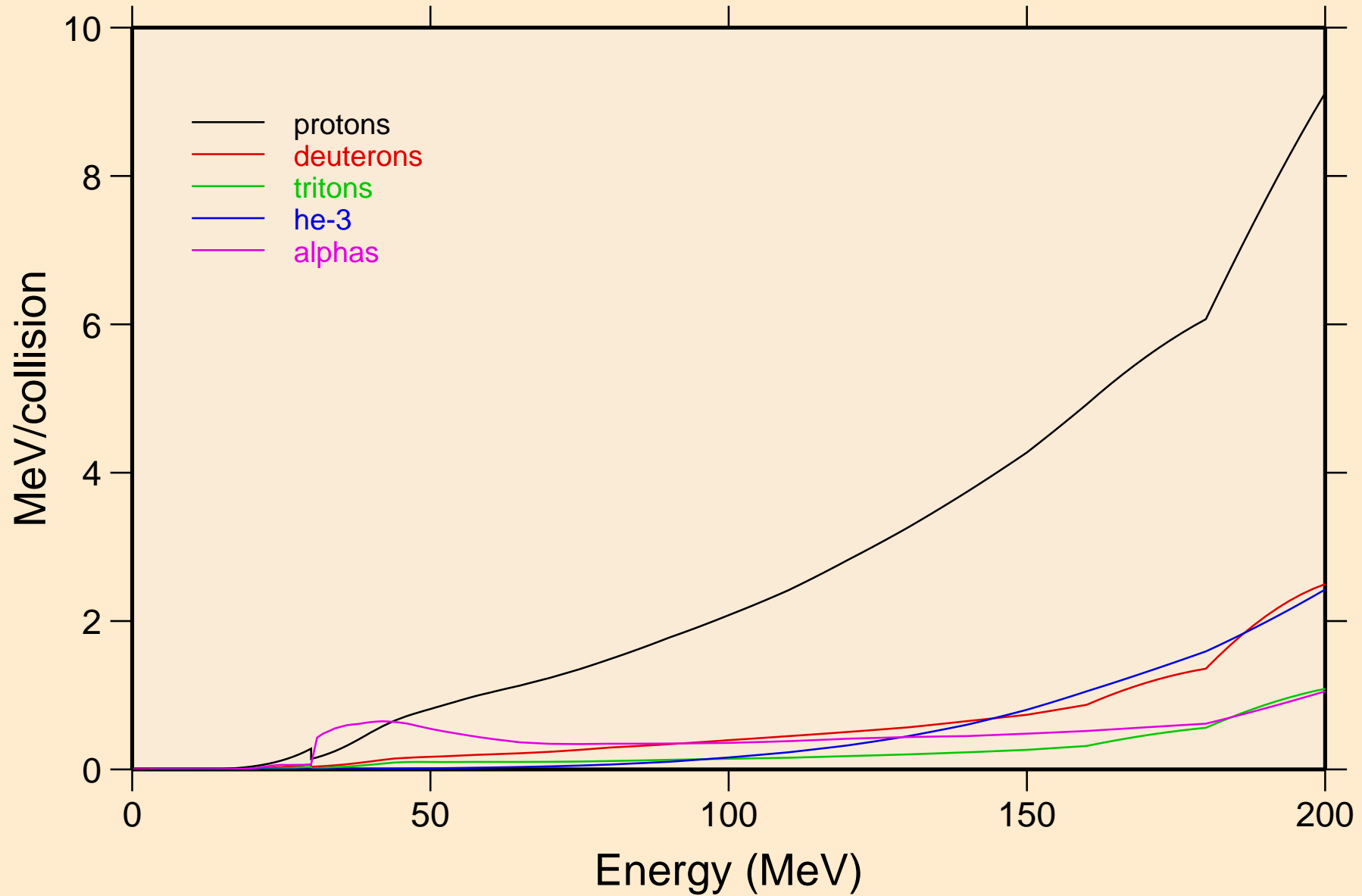CM245 NRG TENDL-2015, AKONING
Photon emission for (n,da)

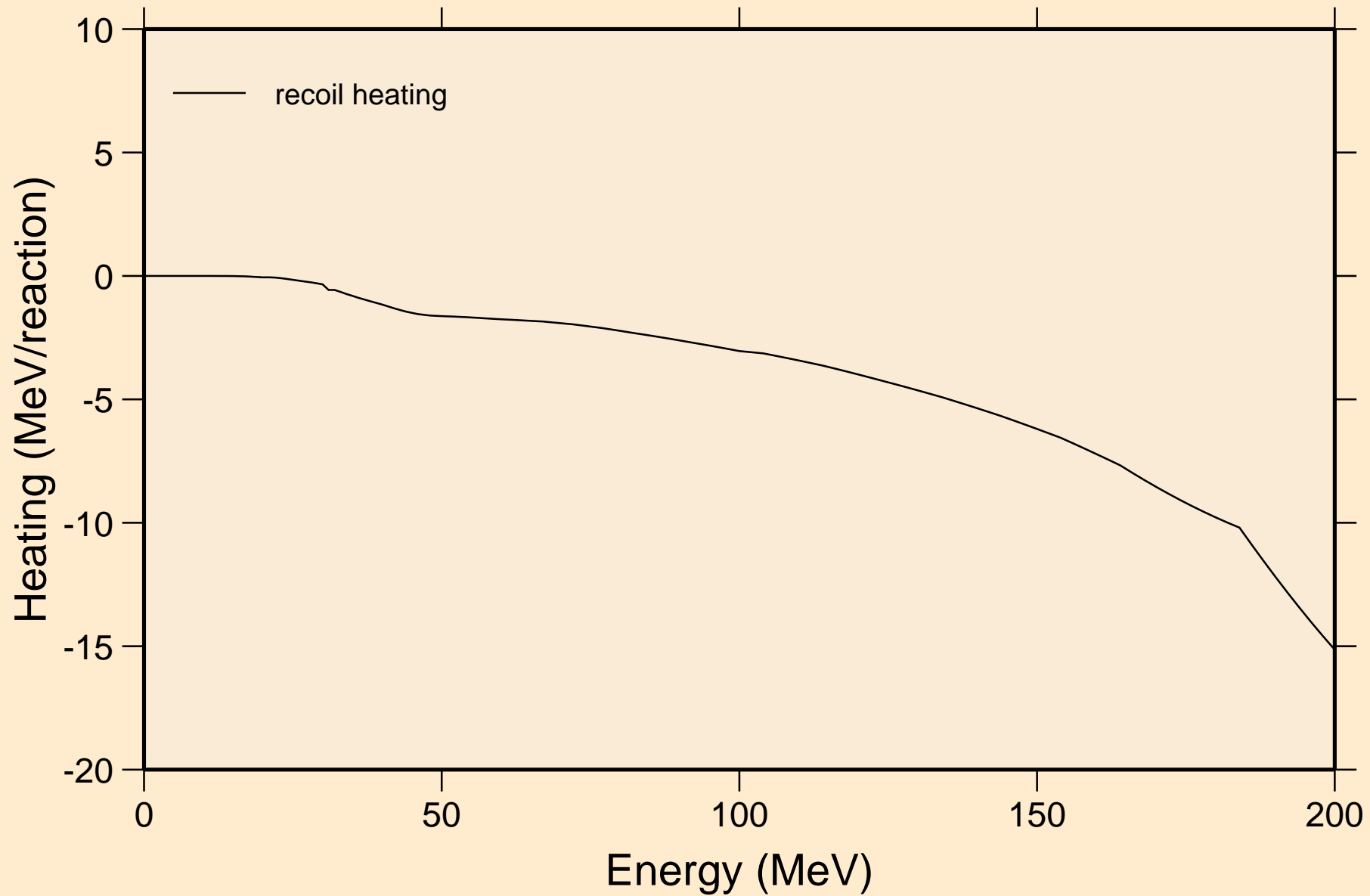CM245 NRG TENDL-2015, AKONING
thermal capture photon spectrum

CM245 NRG TENDL-2015, AKONING
14 MeV photon spectrum
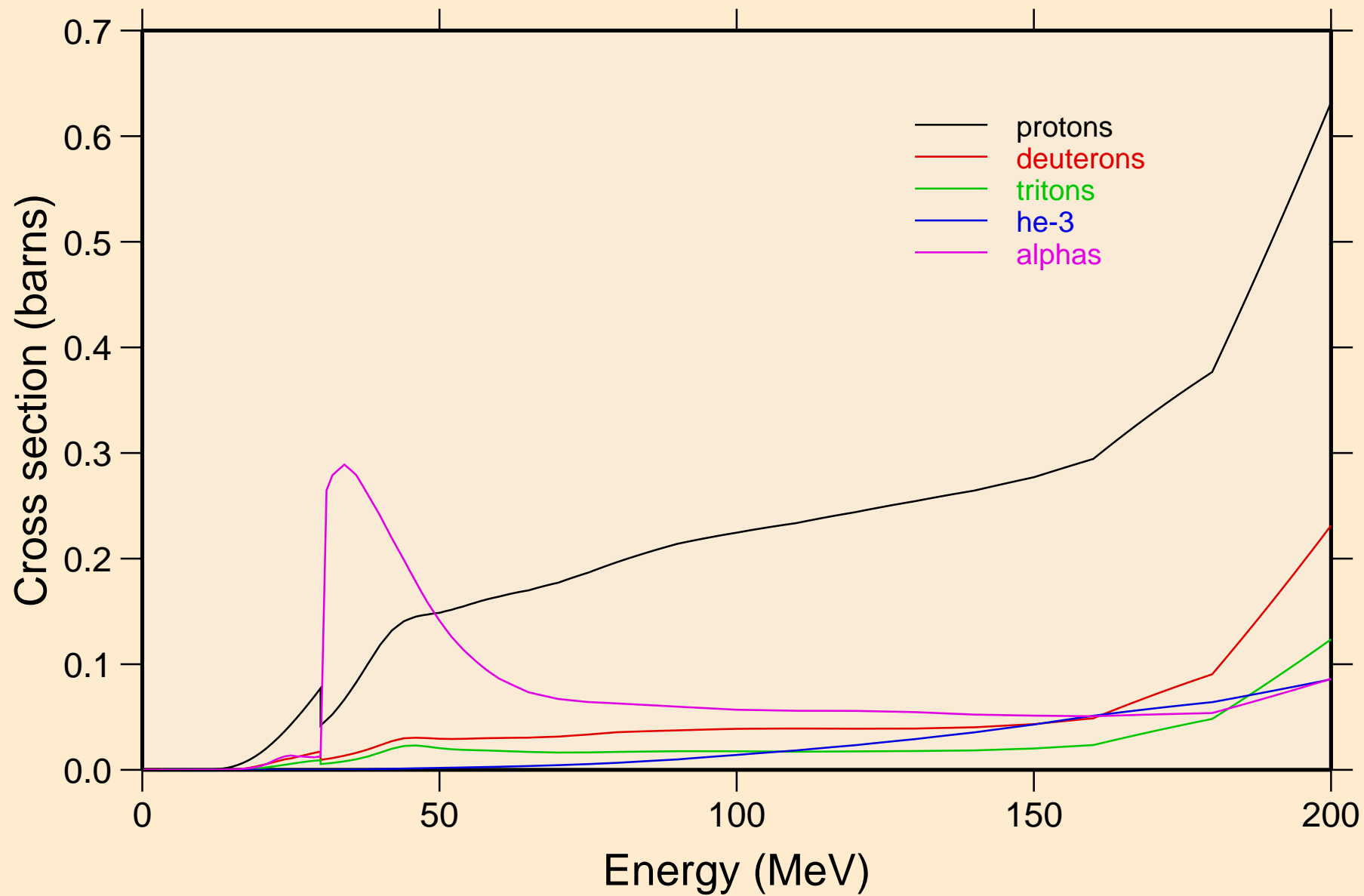
CM245 NRG TENDL-2015, AKONING
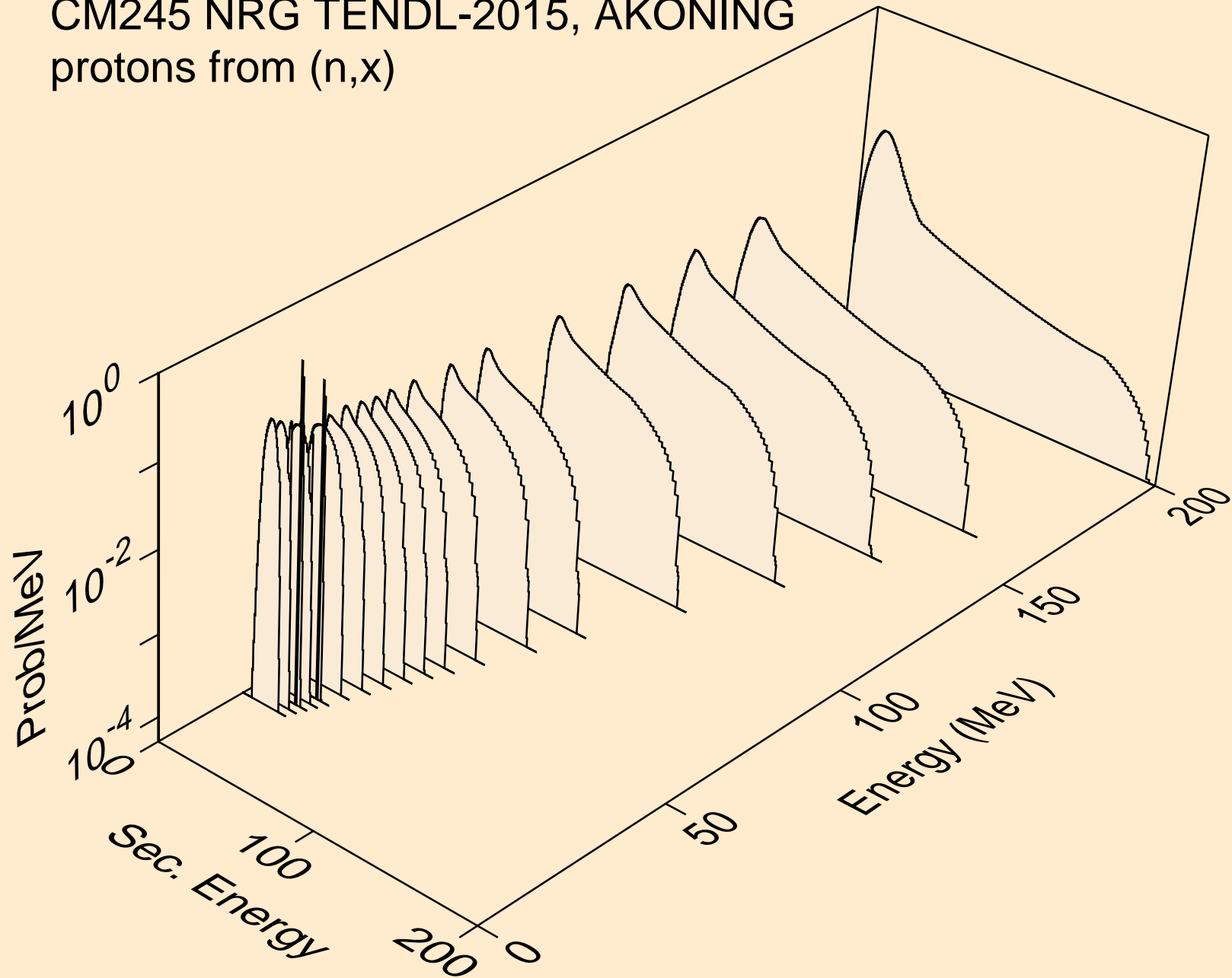Particle heating contributions

CM245 NRG TENDL-2015, AKONING
Recoil Heating

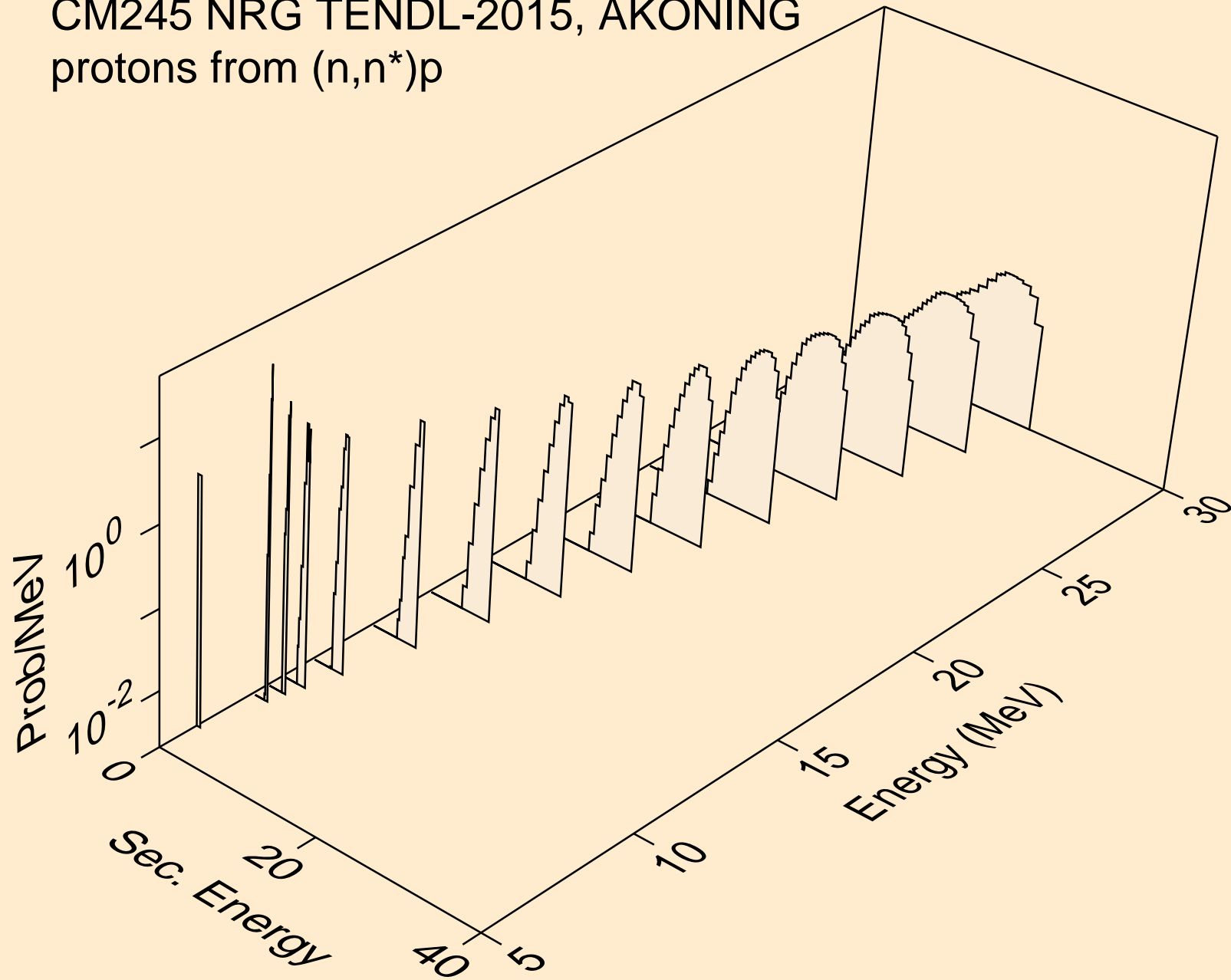CM245 NRG TENDL-2015, AKONING
Particle production cross sections

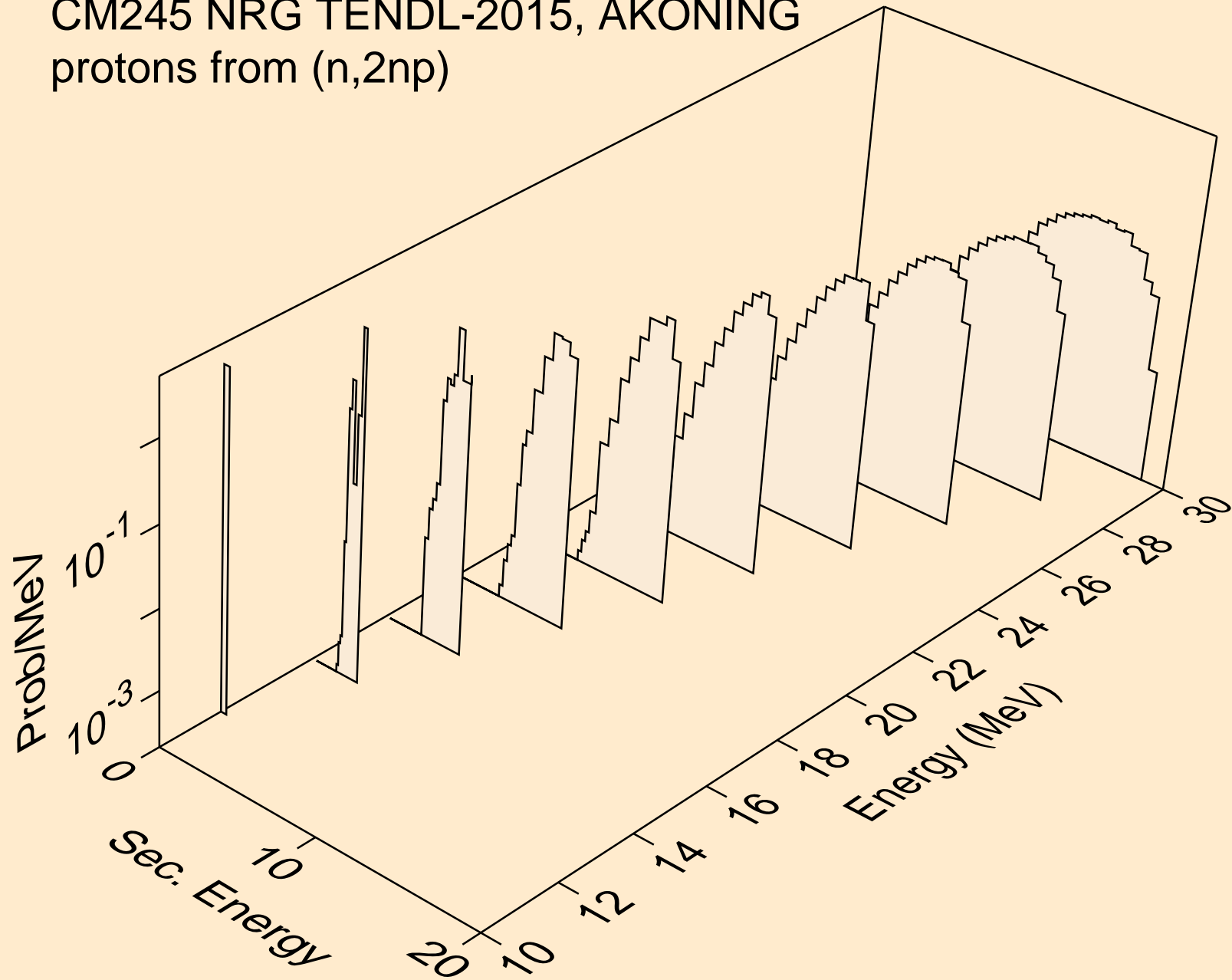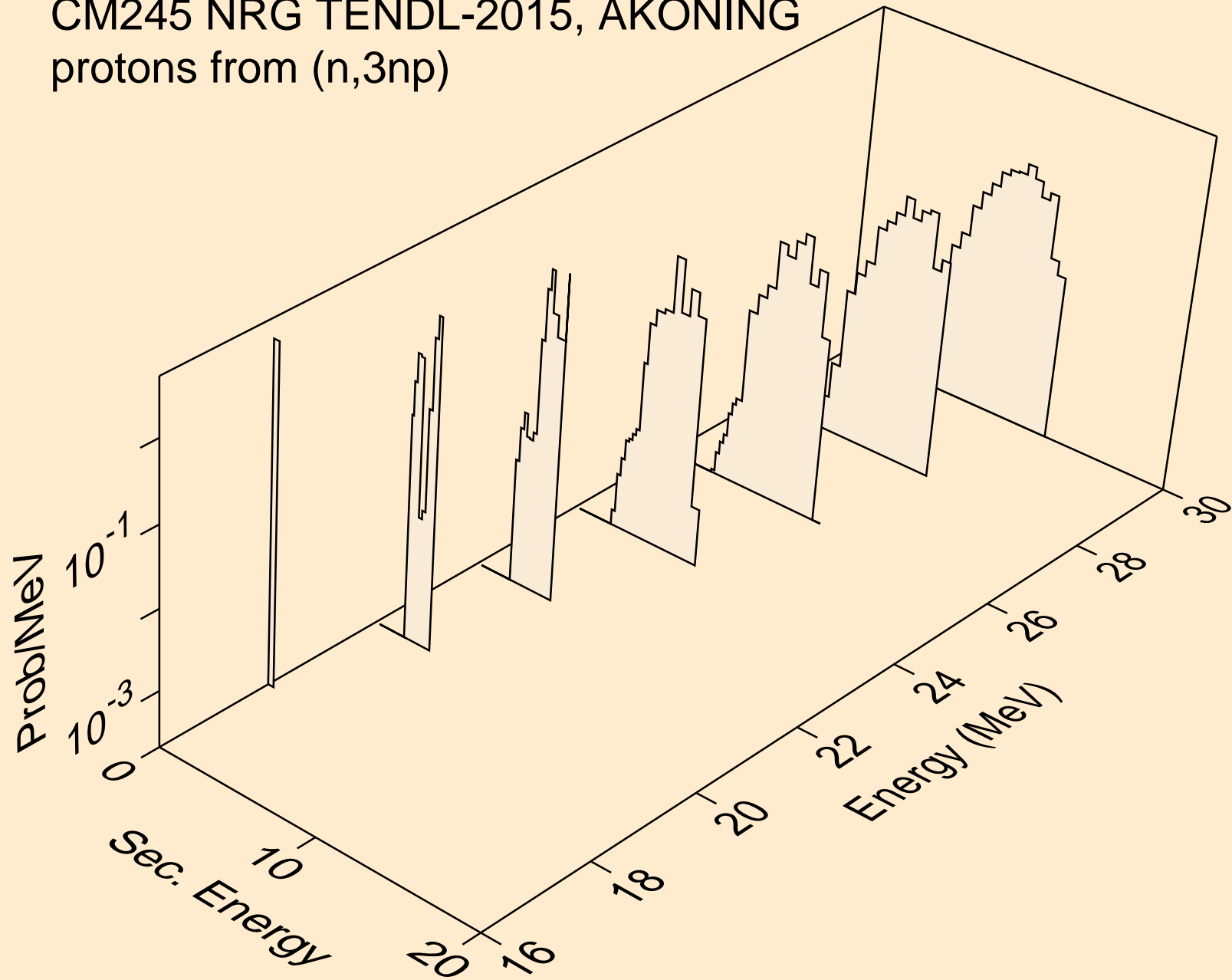CM245 NRG TENDL-2015, AKONING
protons from (n,x)

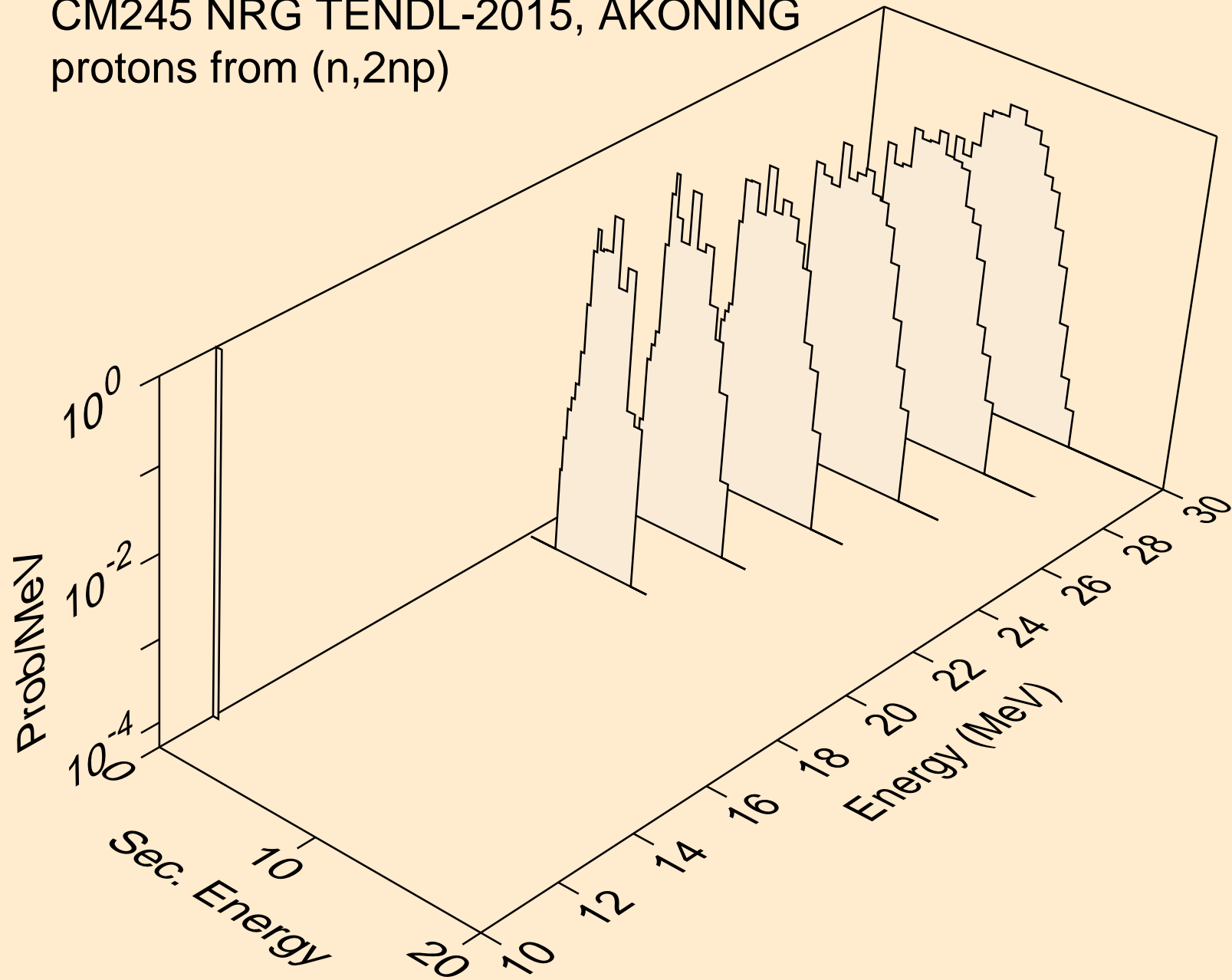CM245 NRG TENDL-2015, AKONING
protons from (n,n*)p

CM245 NRG TENDL-2015, AKONING
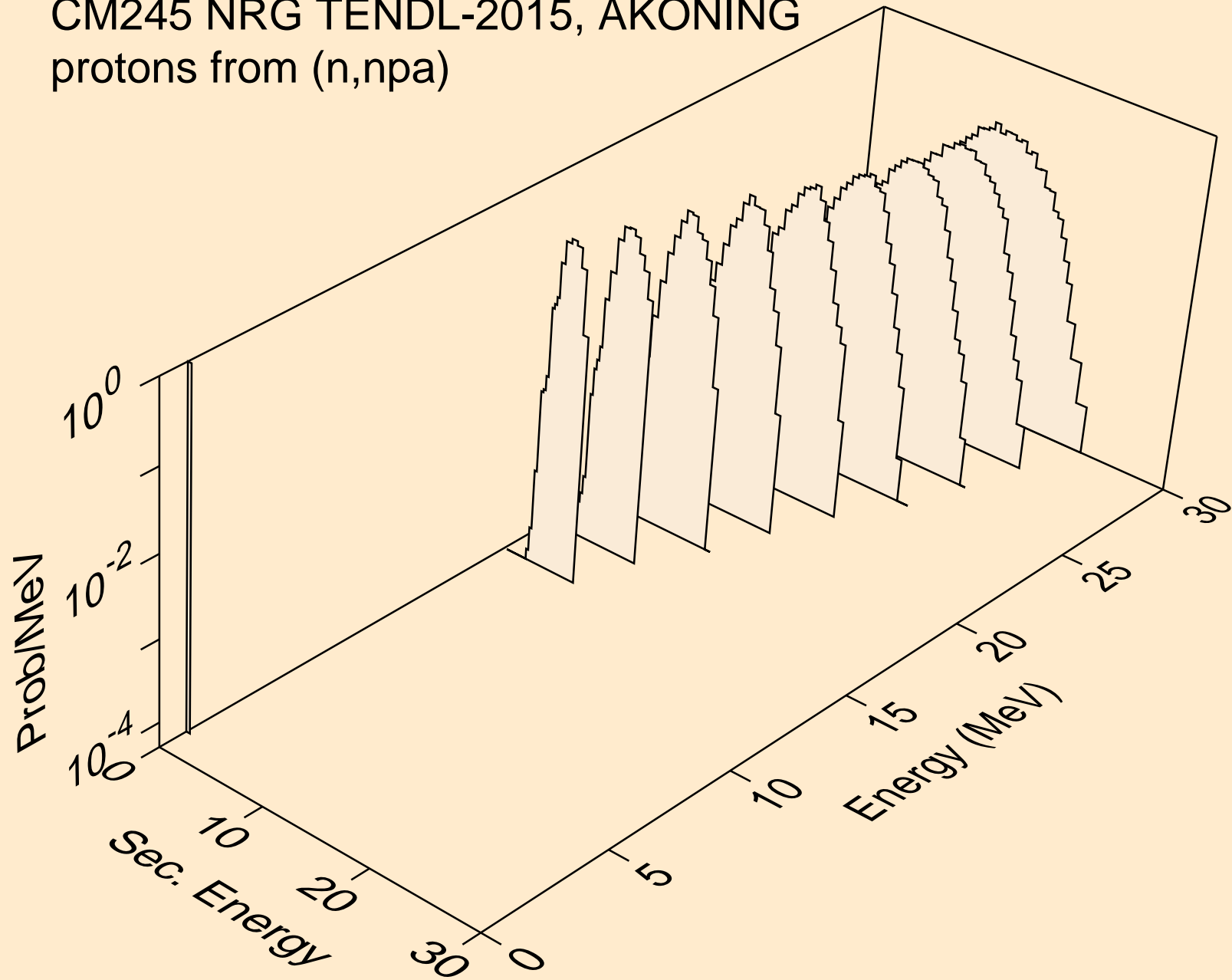protons from (n,2np)

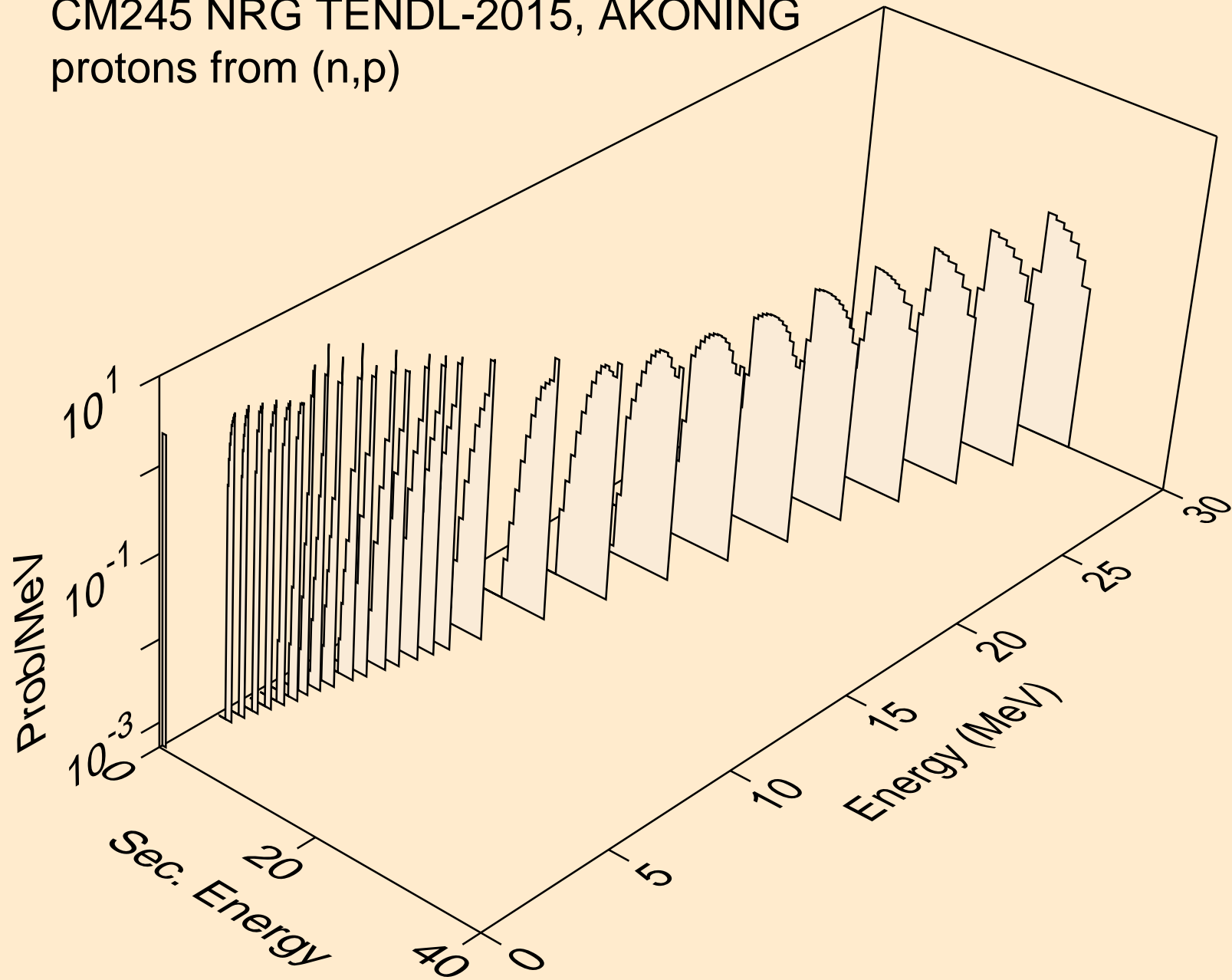CM245 NRG TENDL-2015, AKONING
protons from (n,3np)

CM245 NRG TENDL-2015, AKONING
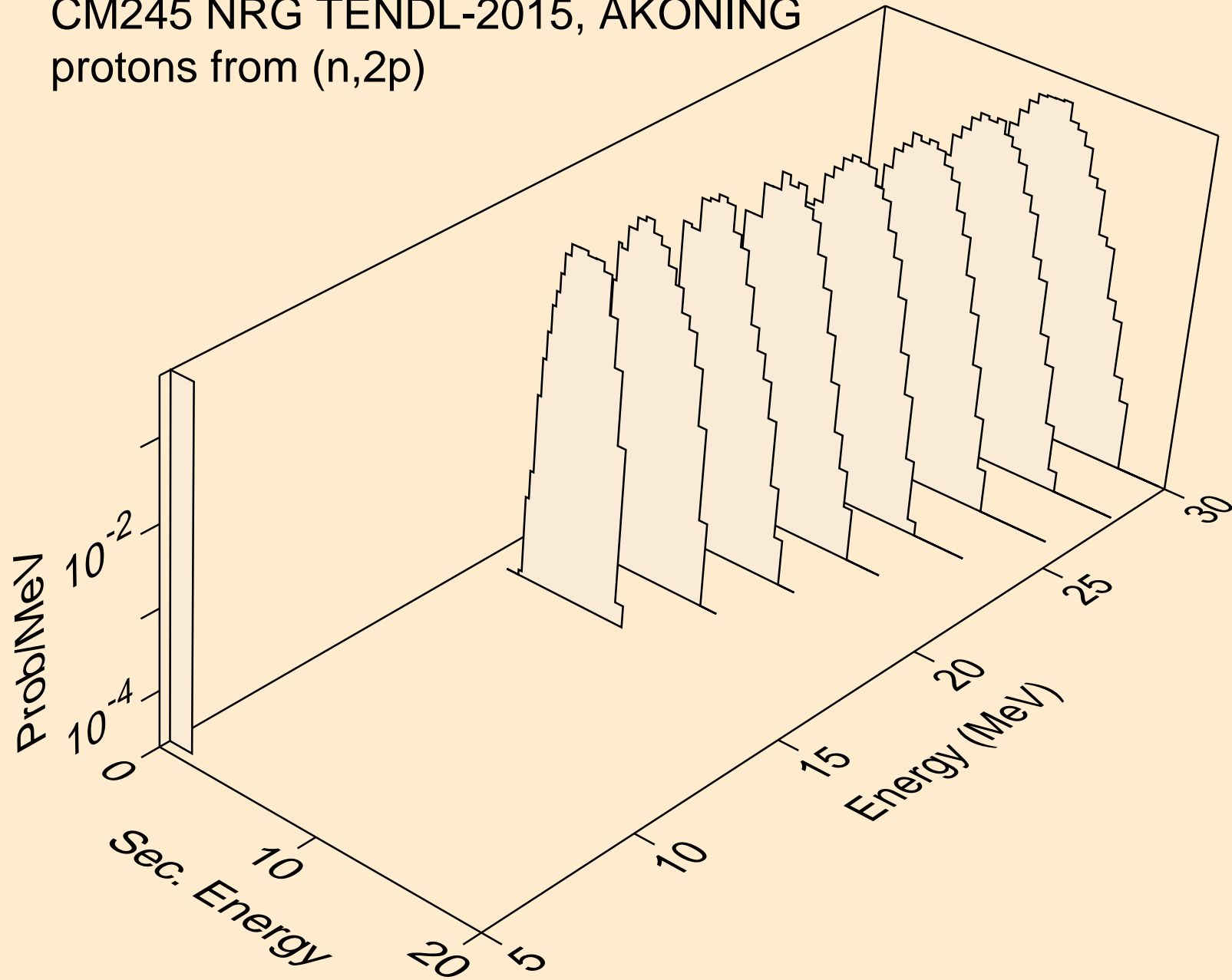protons from (n,2np)

CM245 NRG TENDL-2015, AKONING
protons from (n,npa)
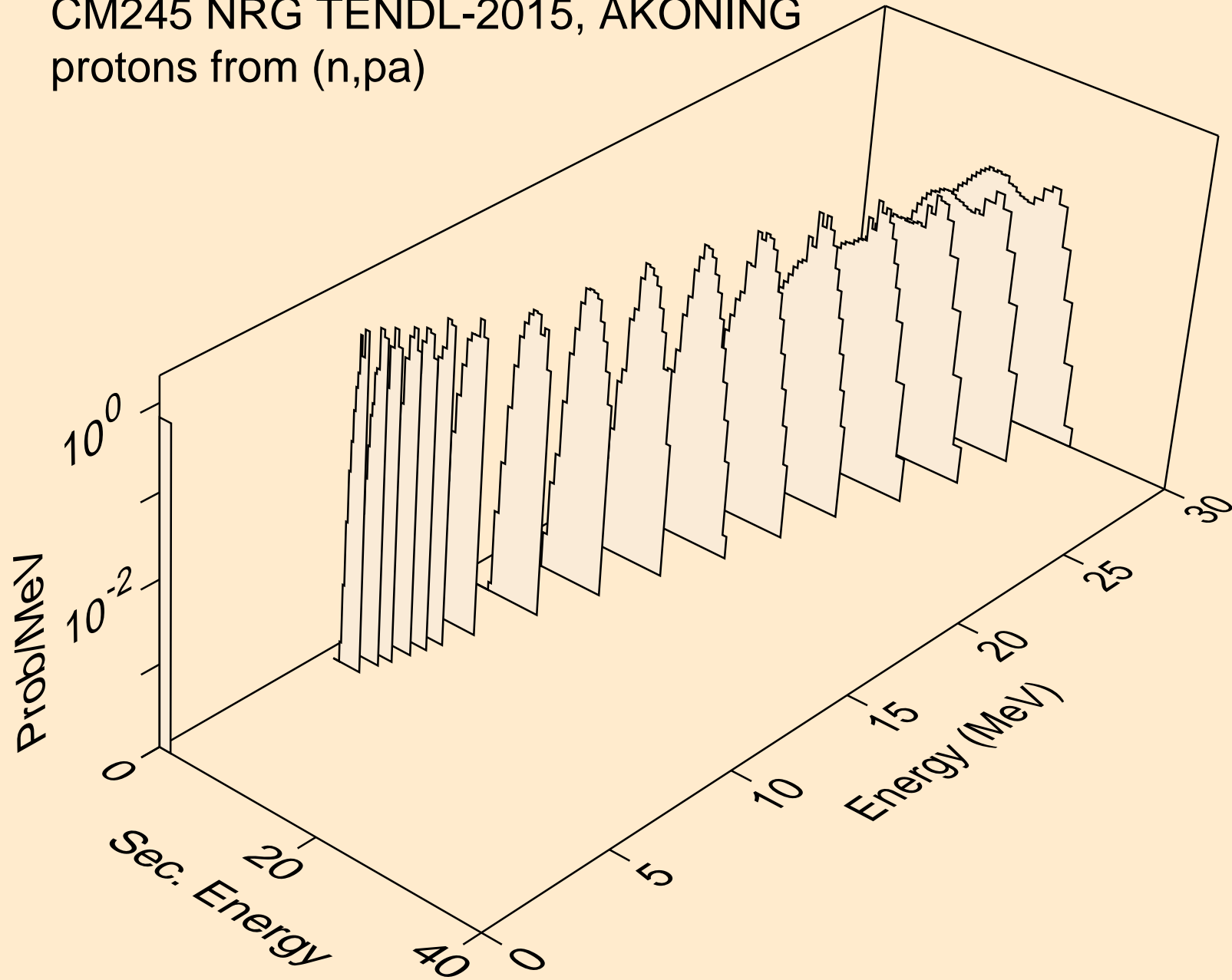
CM245 NRG TENDL-2015, AKONING
protons from (n,p)
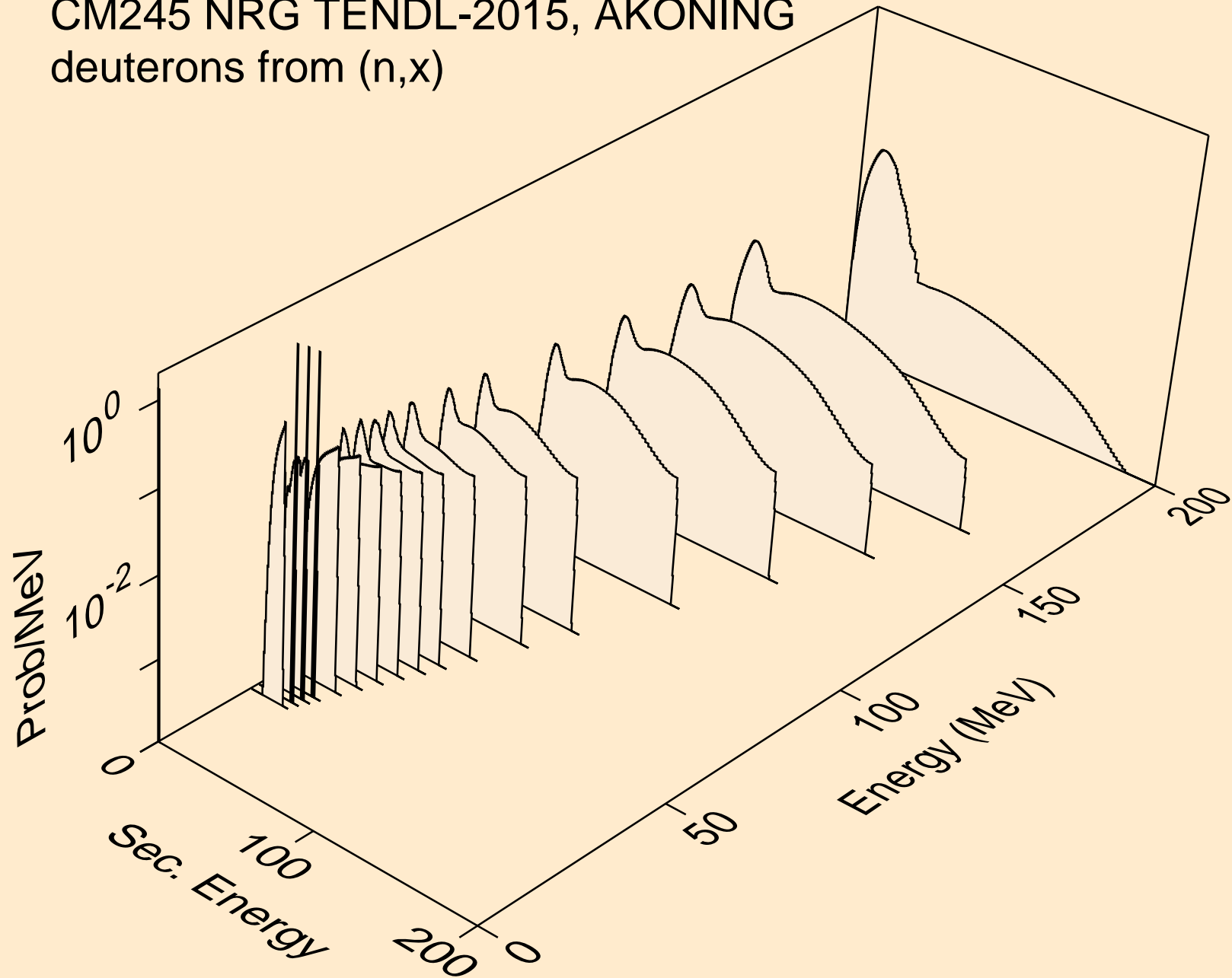
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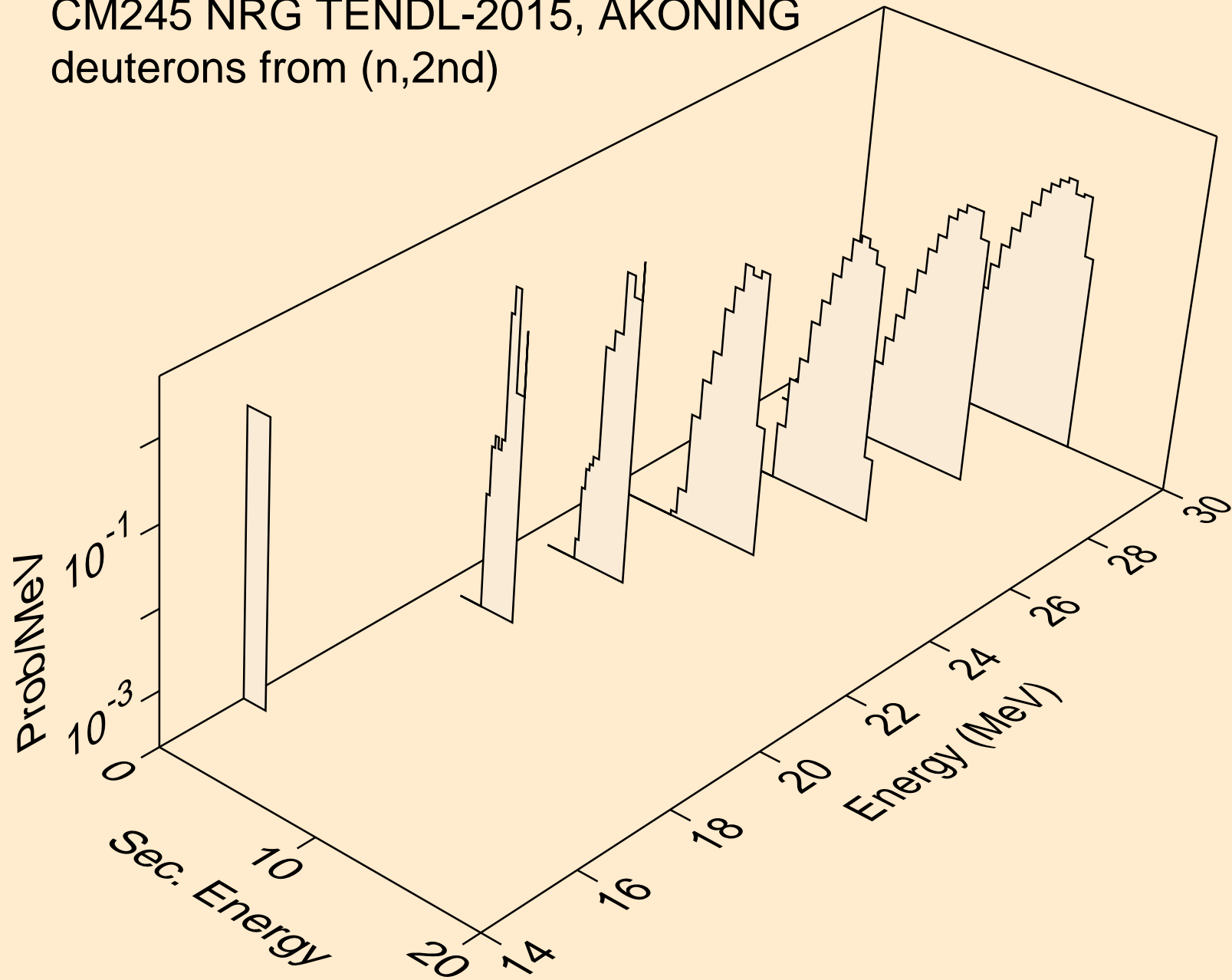protons from (n,2p)

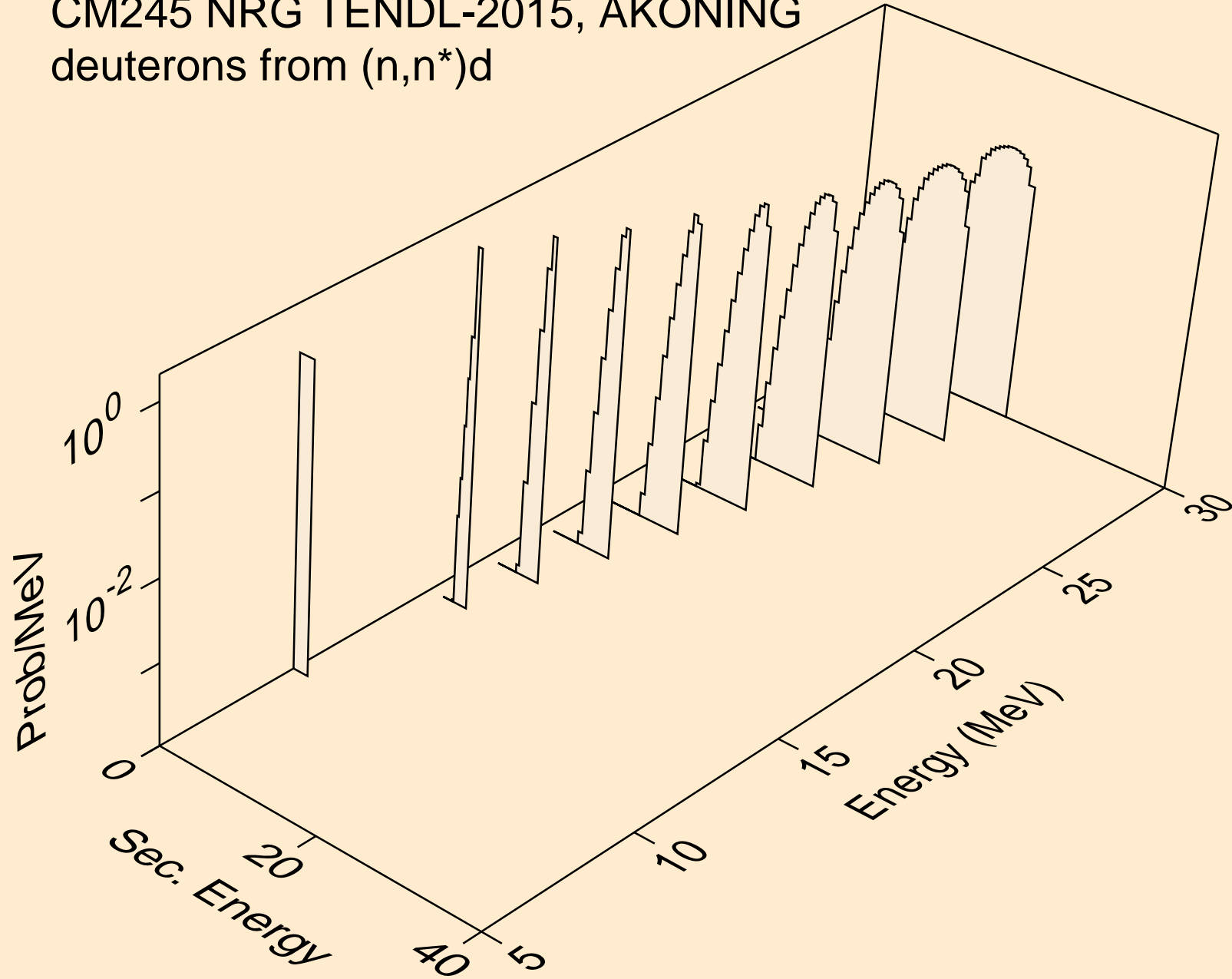CM245 NRG TENDL-2015, AKONING
protons from (n,pa)
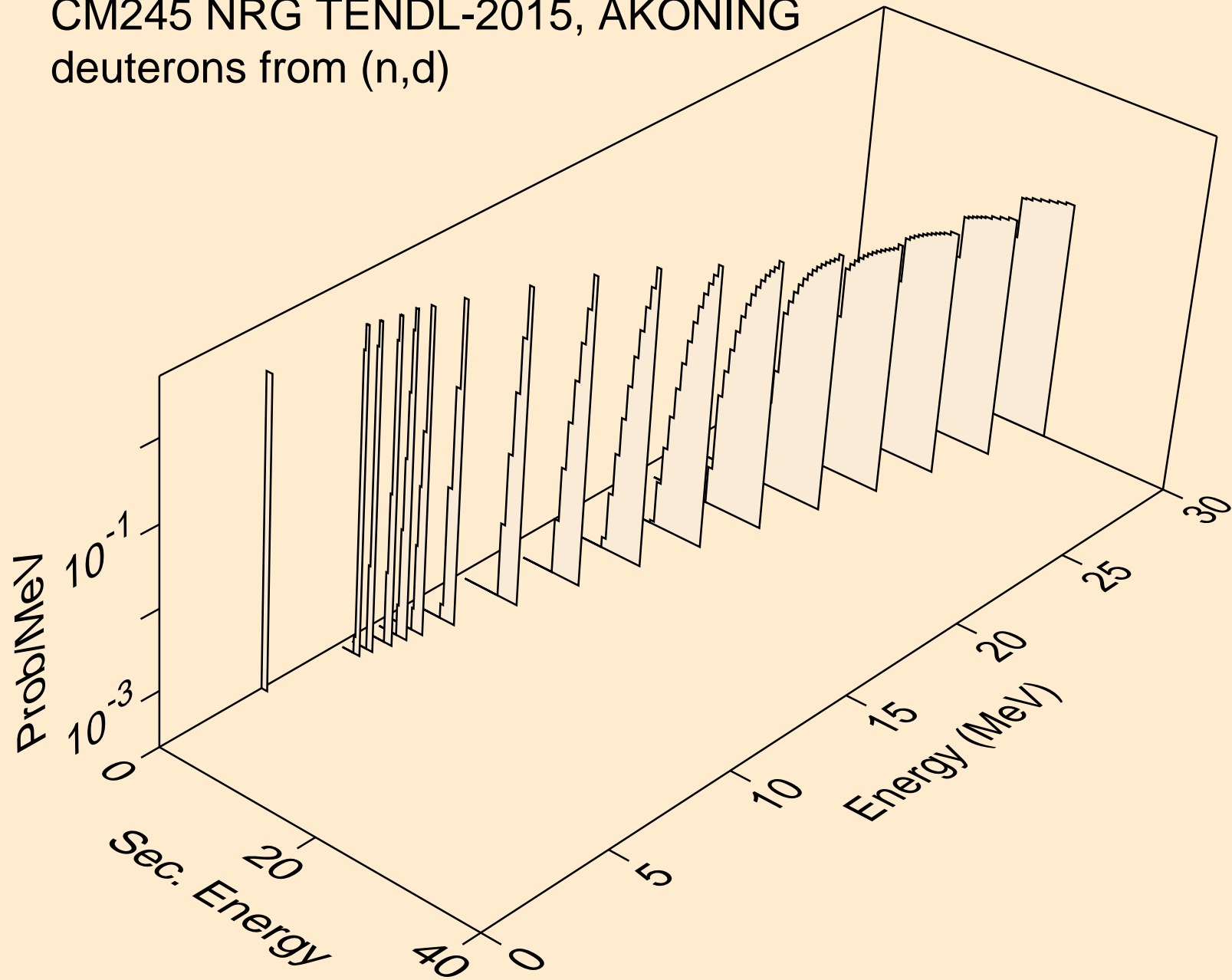
CM245 NRG TENDL-2015, AKONING
deuterons from (n,x)

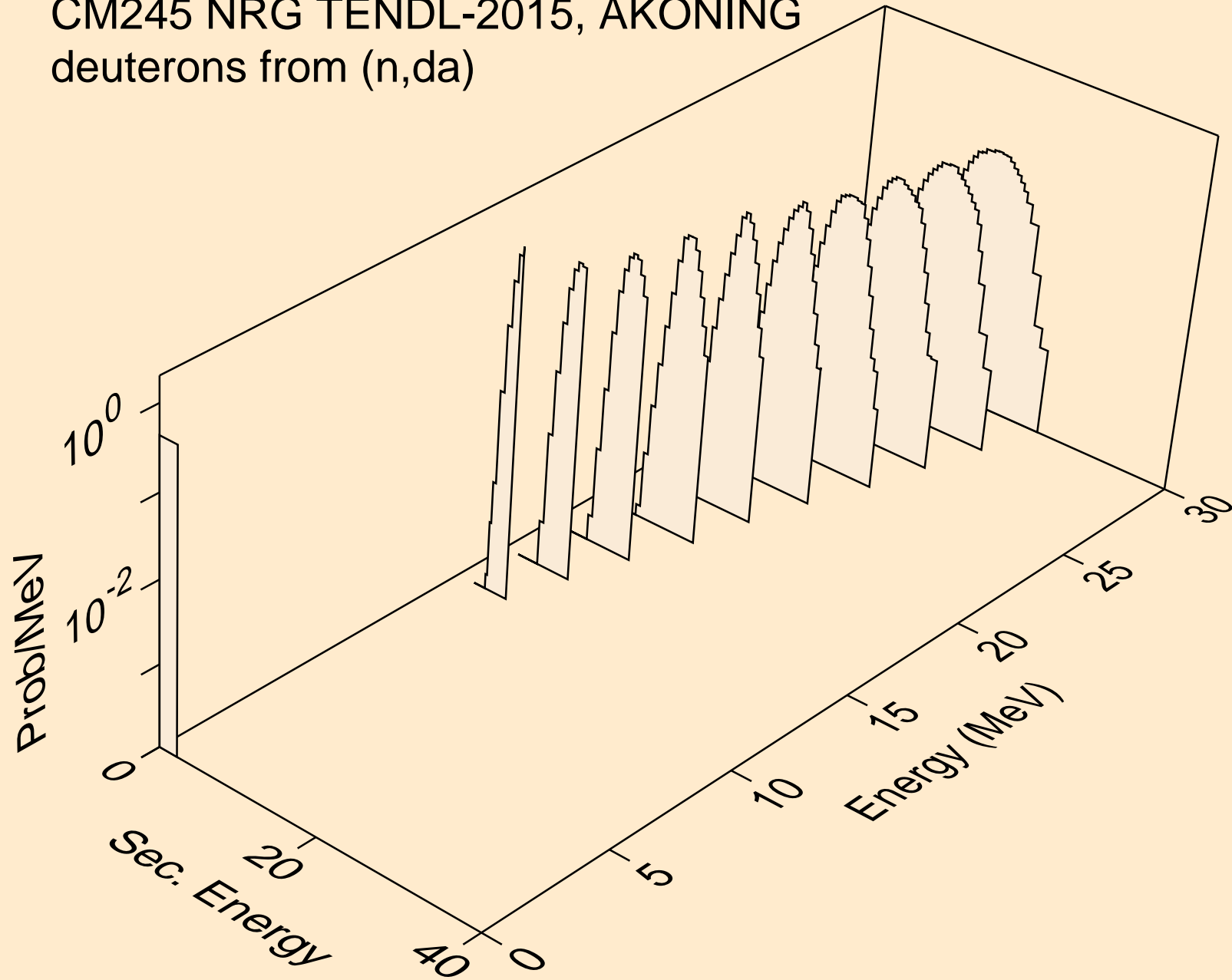CM245 NRG TENDL-2015, AKONING
deuterons from (n,2nd)
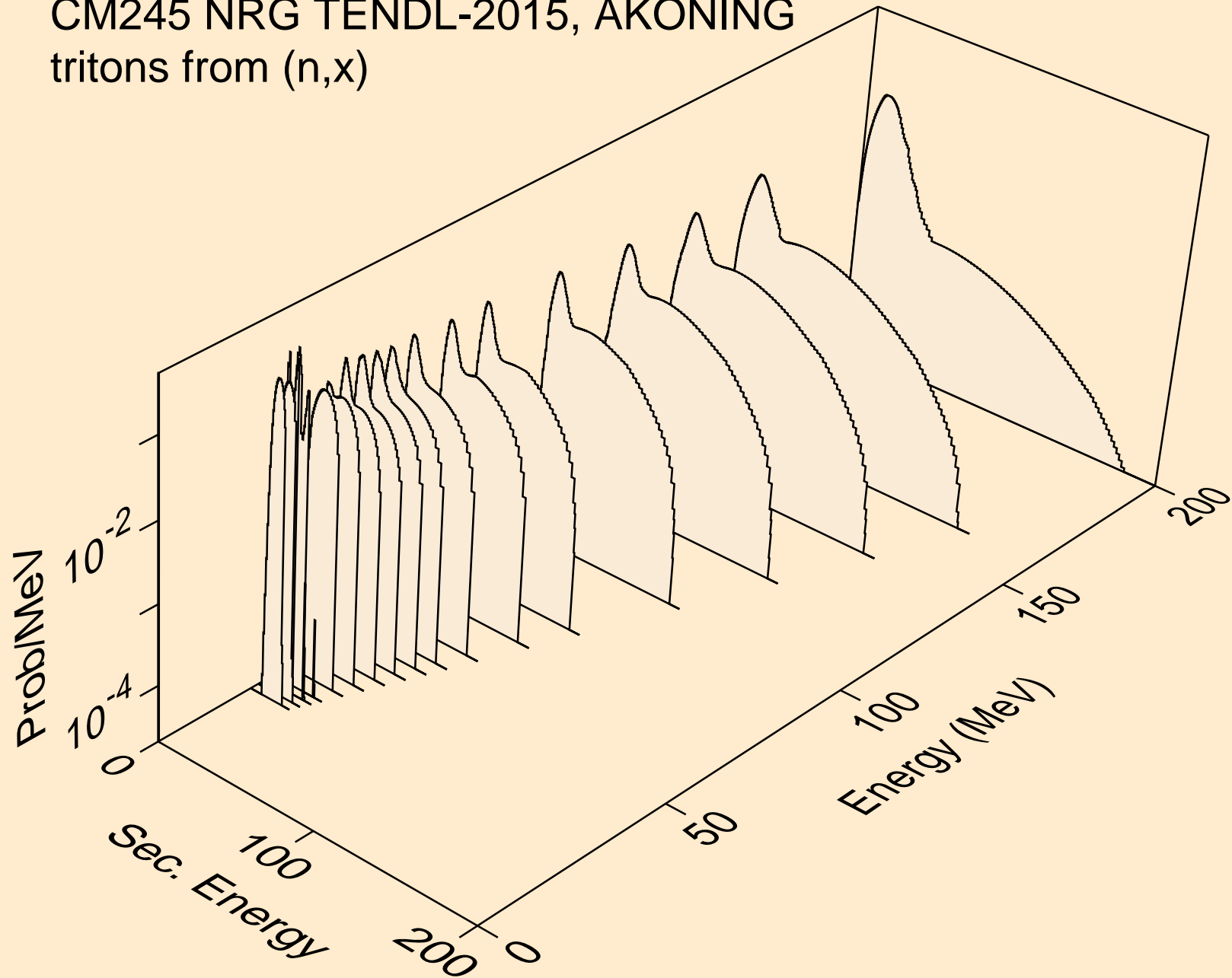
CM245 NRG TENDL-2015, AKONING
deuterons from (n,n*)d
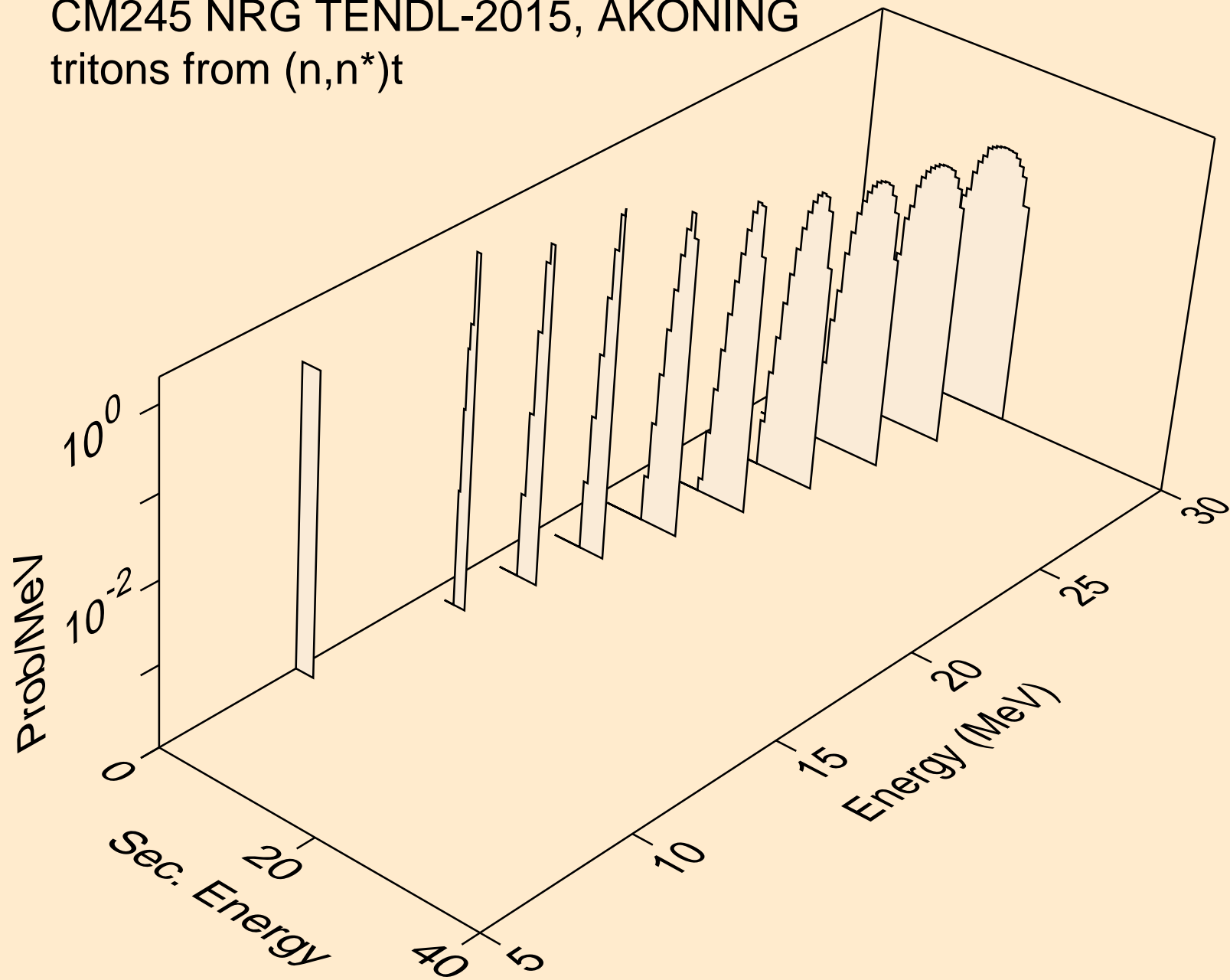
CM245 NRG TENDL-2015, AKONING
deuterons from (n,d)

CM245 NRG TENDL-2015, AKONING
deuterons from (n,da)
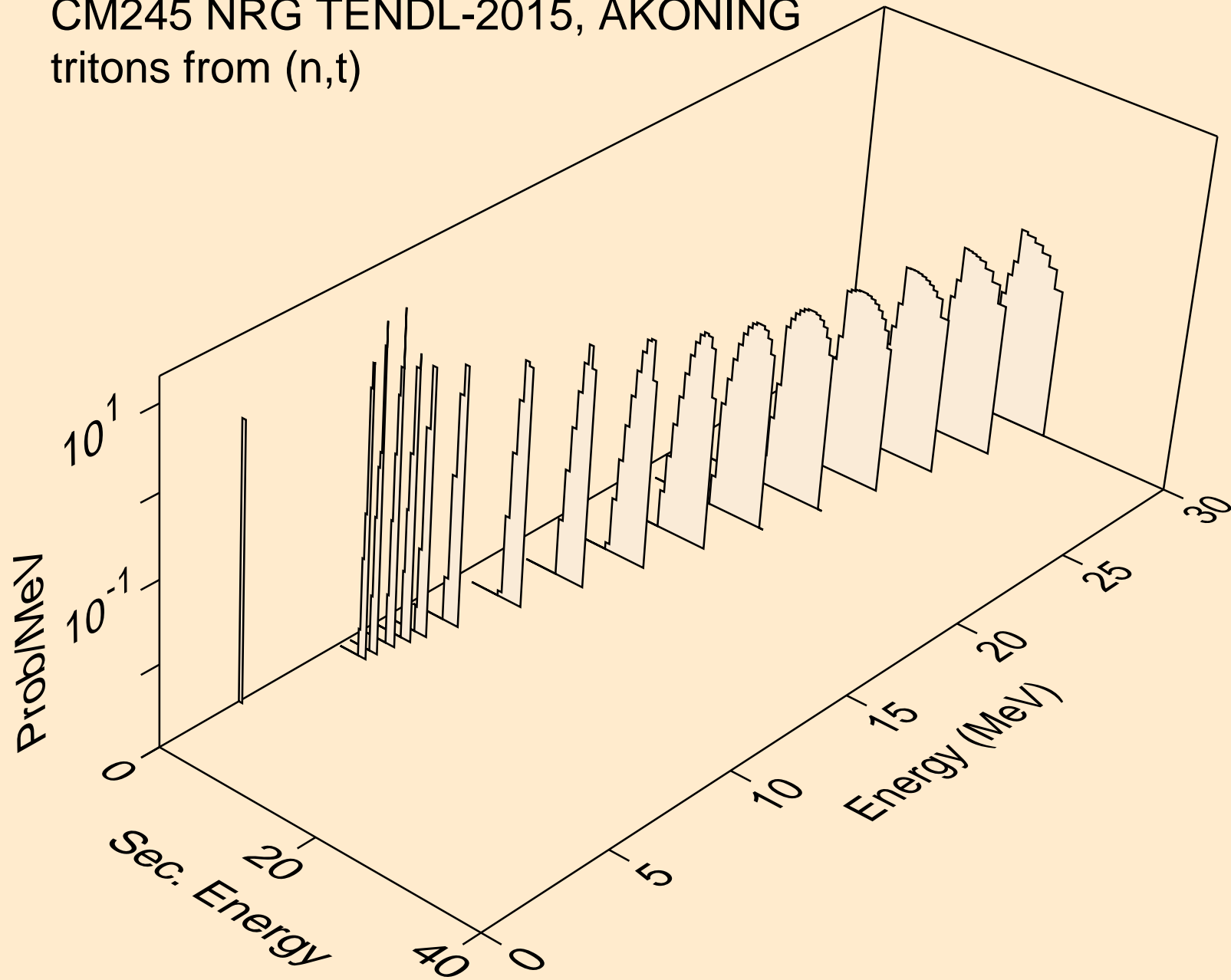
CM245 NRG TENDL-2015, AKONING
tritons from (n,x)

CM245 NRG TENDL-2015, AKONING
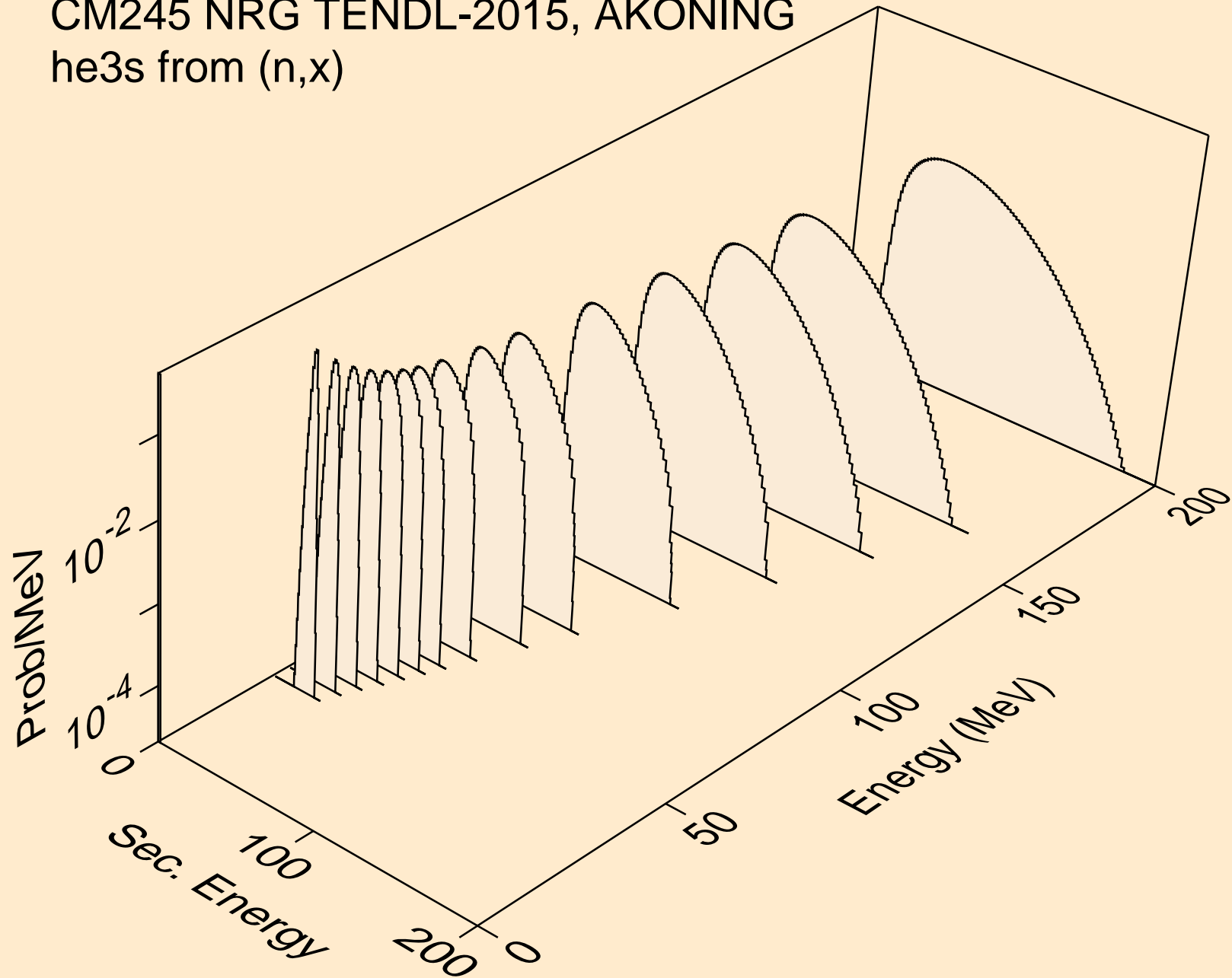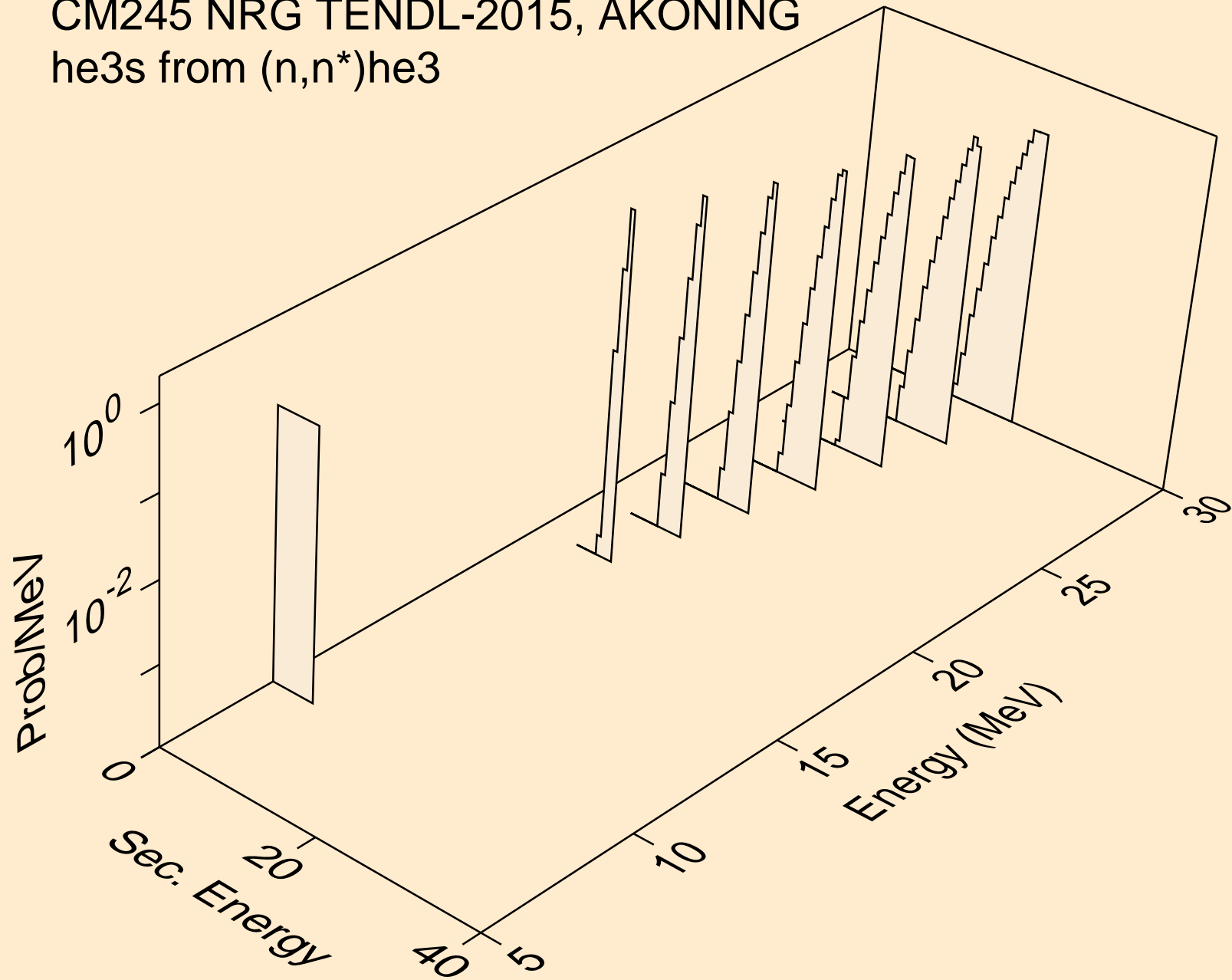tritons from (n,n*)t

Prob/MeV

Sec. Energy

Energy (MeV)

CM245 NRG TENDL-2015, AKONING
tritons from (n,t)

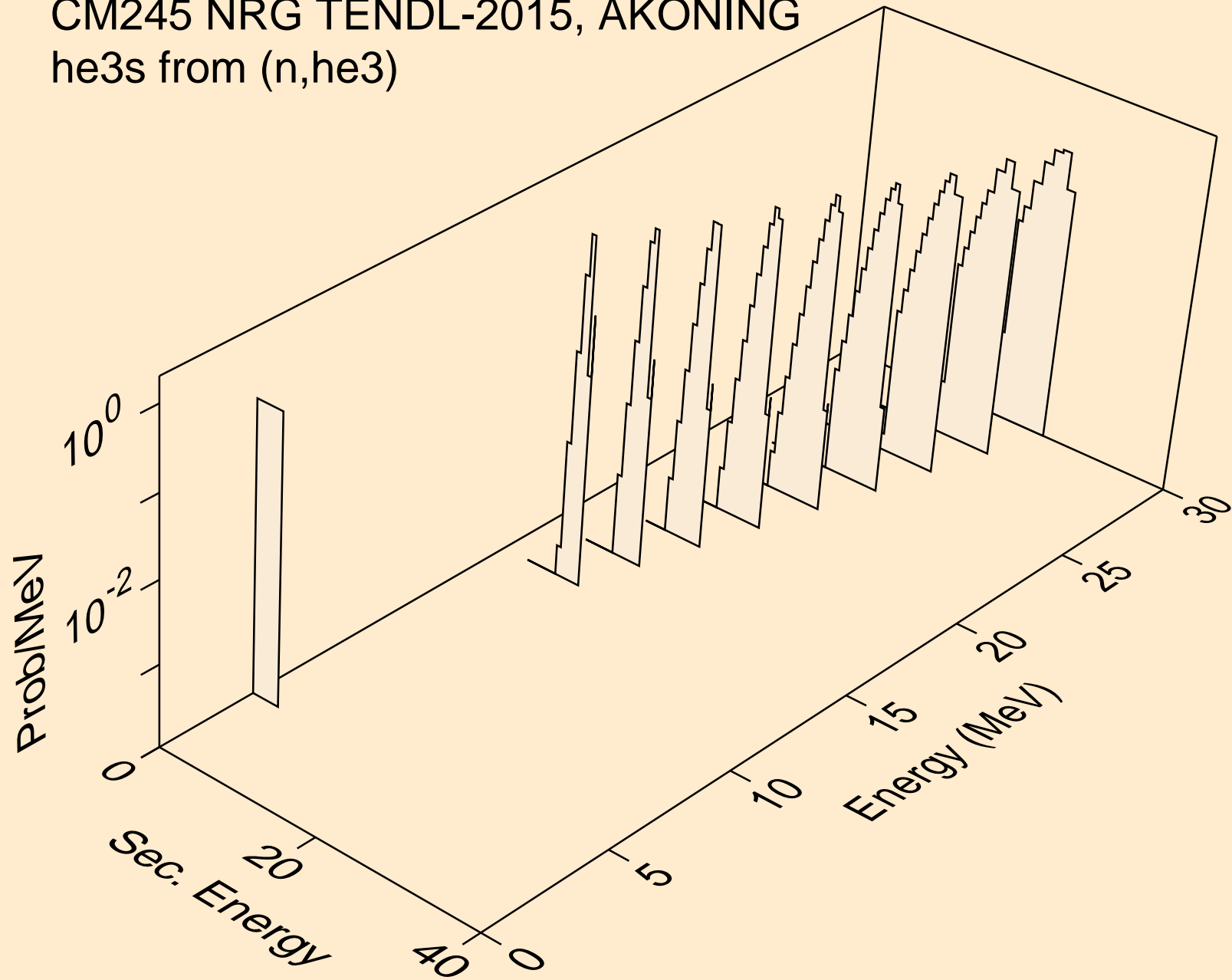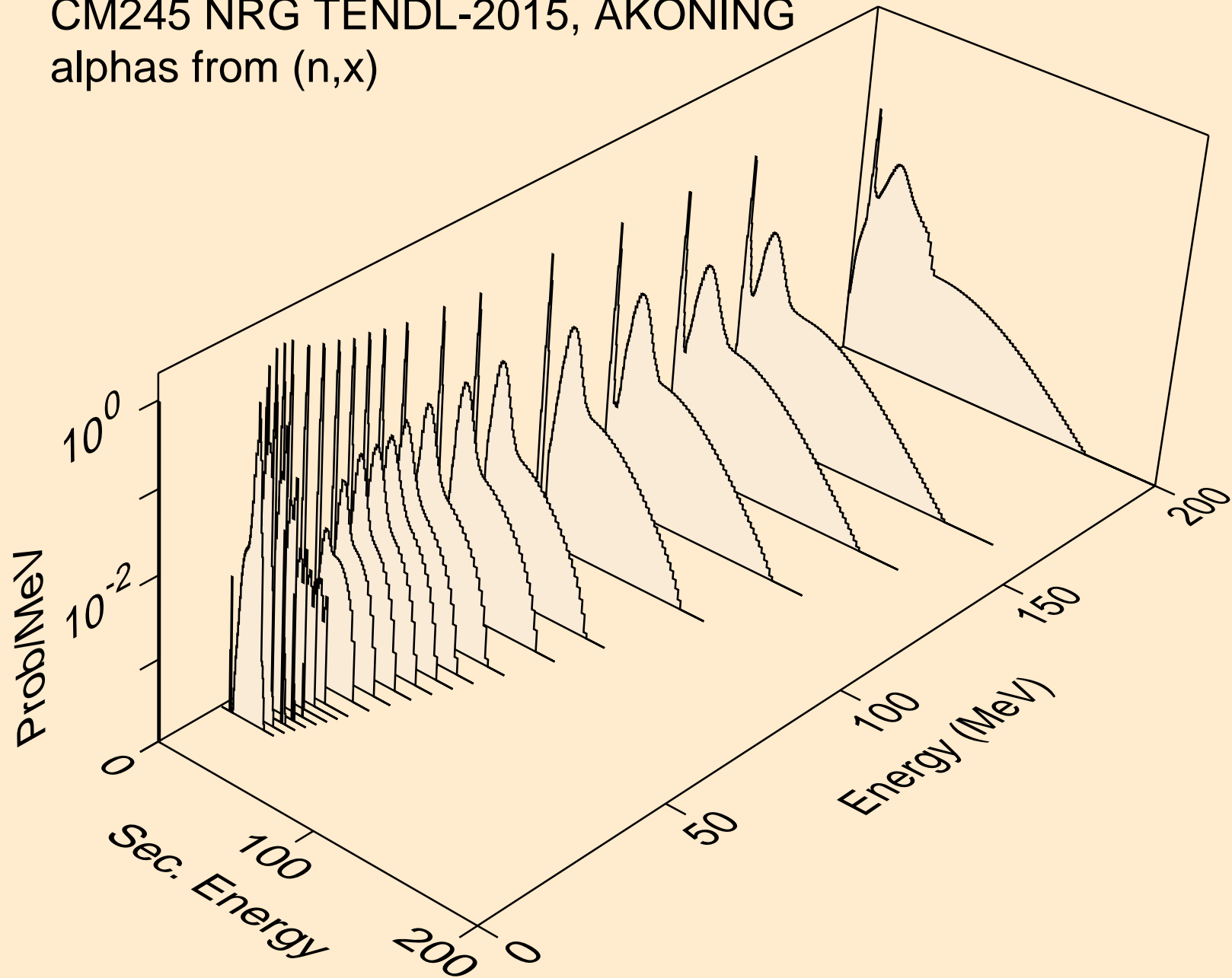CM245 NRG TENDL-2015, AKONING
he3s from (n,x)

CM245 NRG TENDL-2015, AKONING
he3s from (n,n*)he3

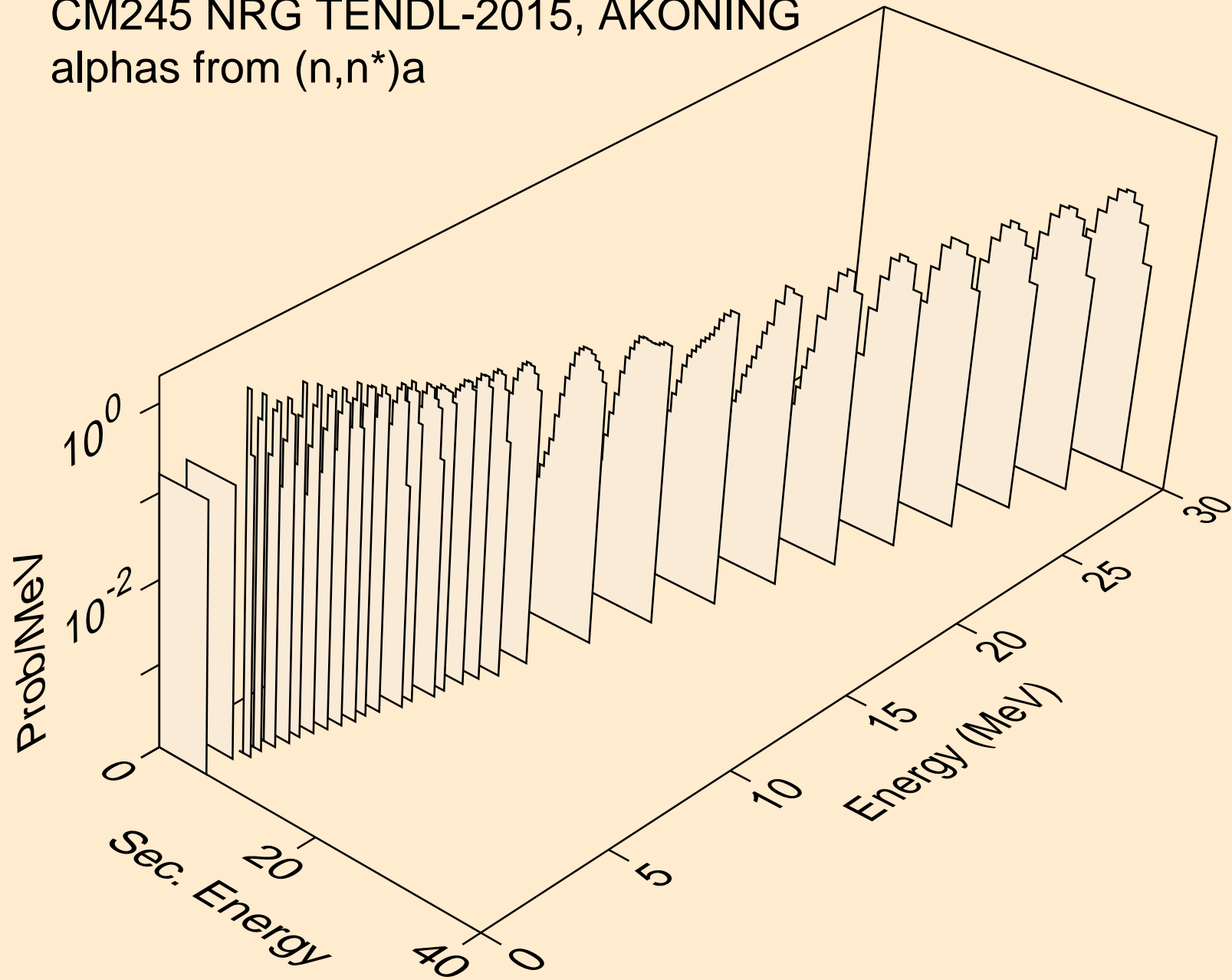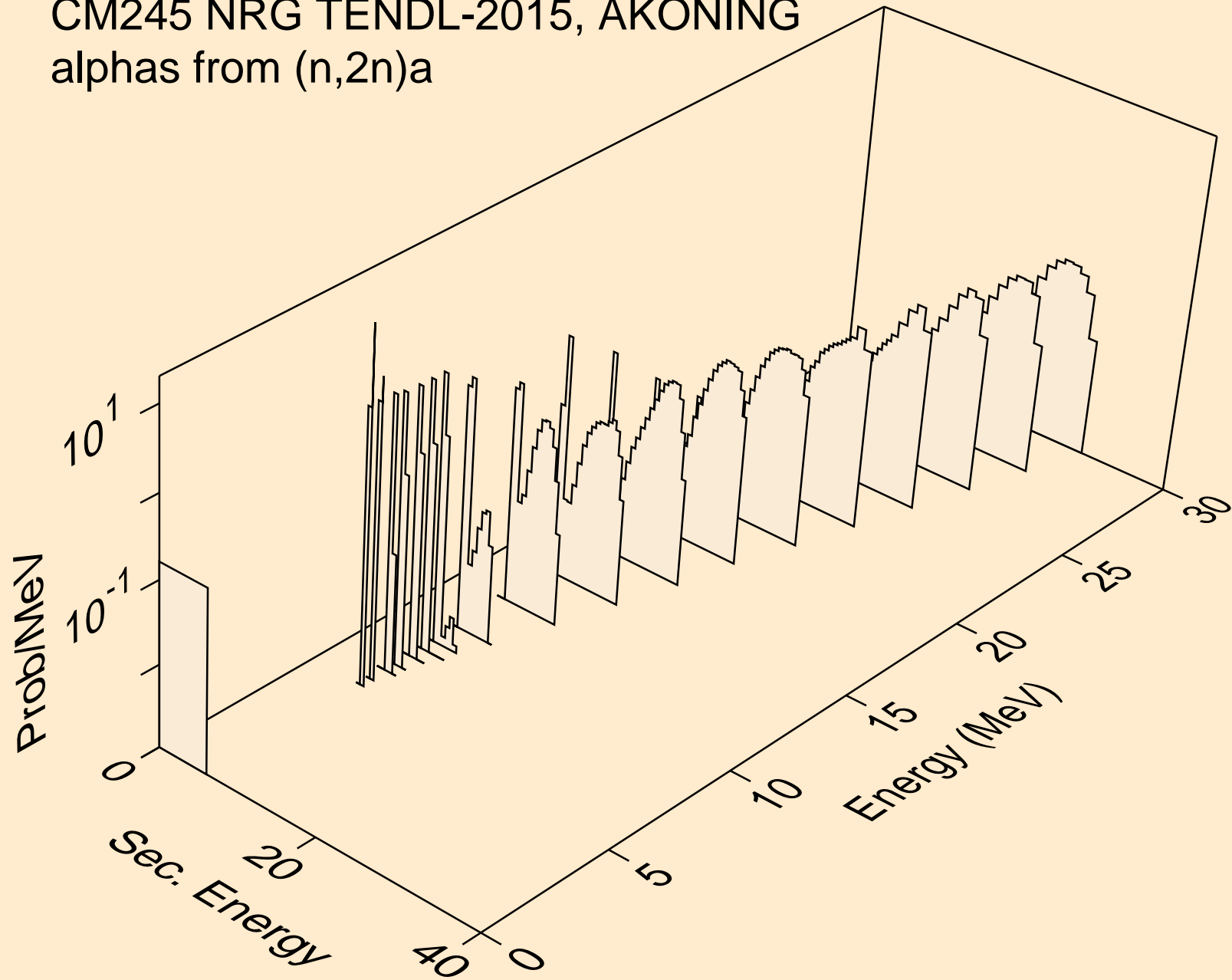CM245 NRG TENDL-2015, AKONING
he3s from (n,he3)
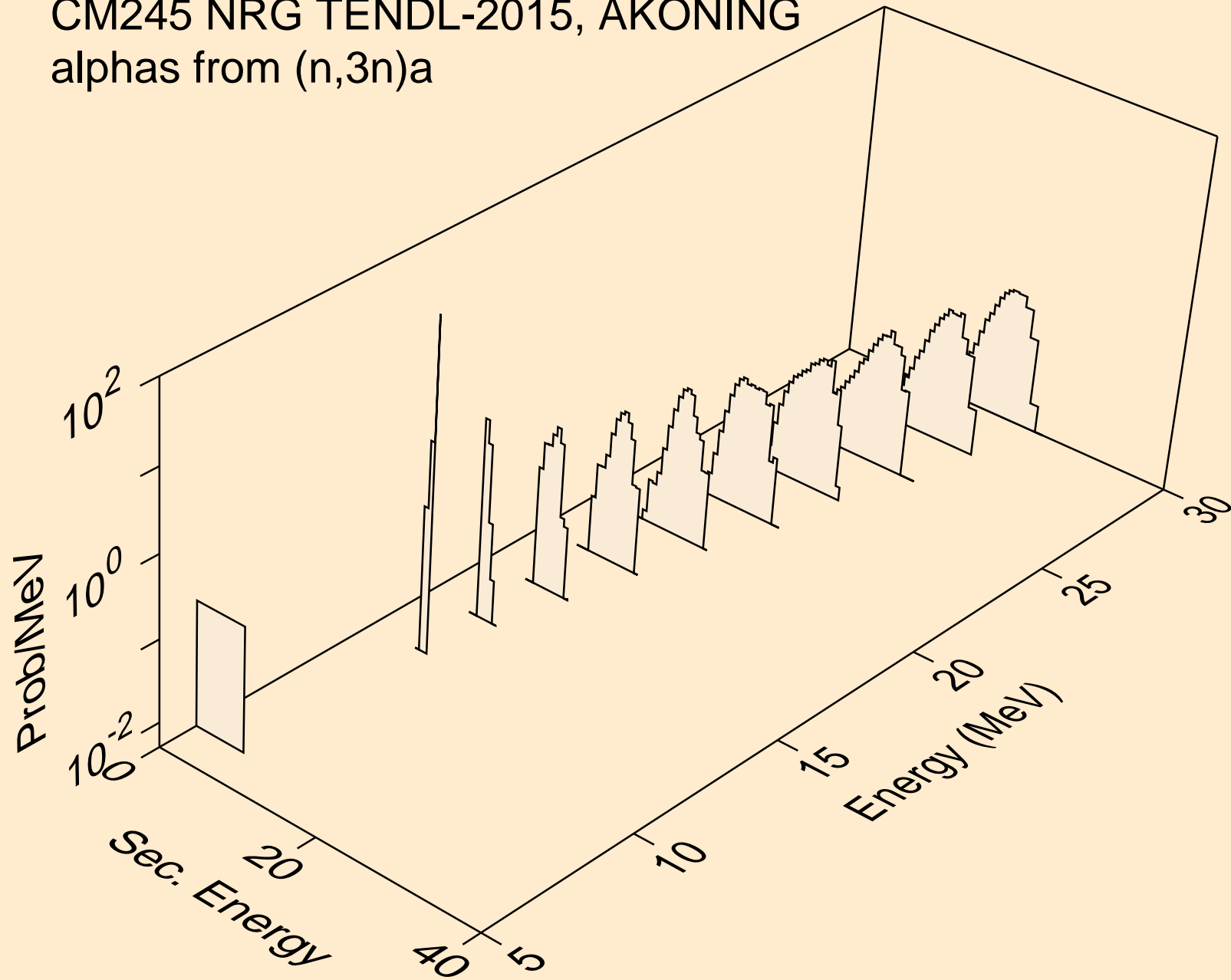
CM245 NRG TENDL-2015, AKONING
alphas from (n,x)

CM245 NRG TENDL-2015, AKONING
alphas from (n,n*)a
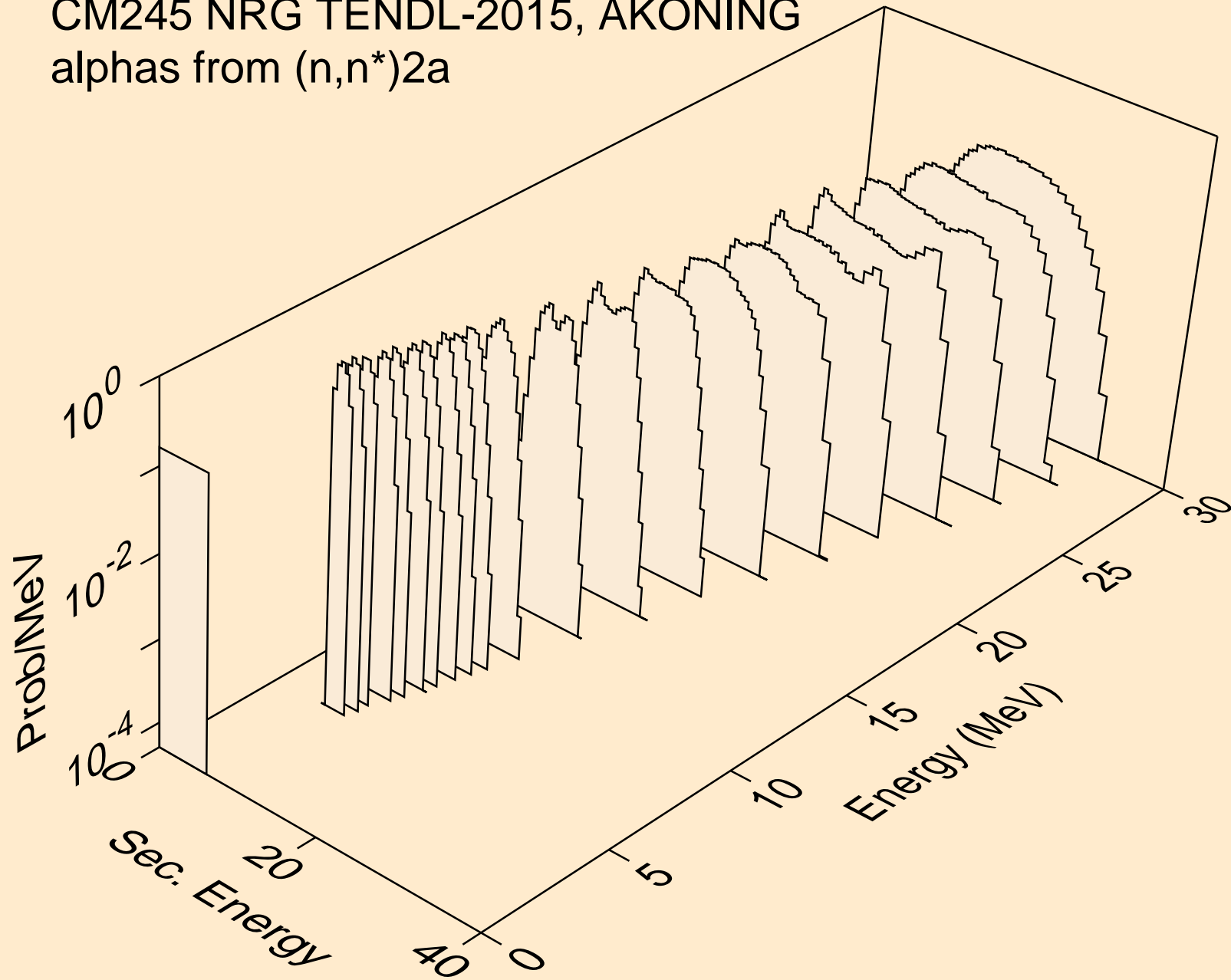
CM245 NRG TENDL-2015, AKONING
alphas from (n,2n)a

CM245 NRG TENDL-2015, AKONING
alphas from (n,3n)a

CM245 NRG TENDL-2015, AKONING
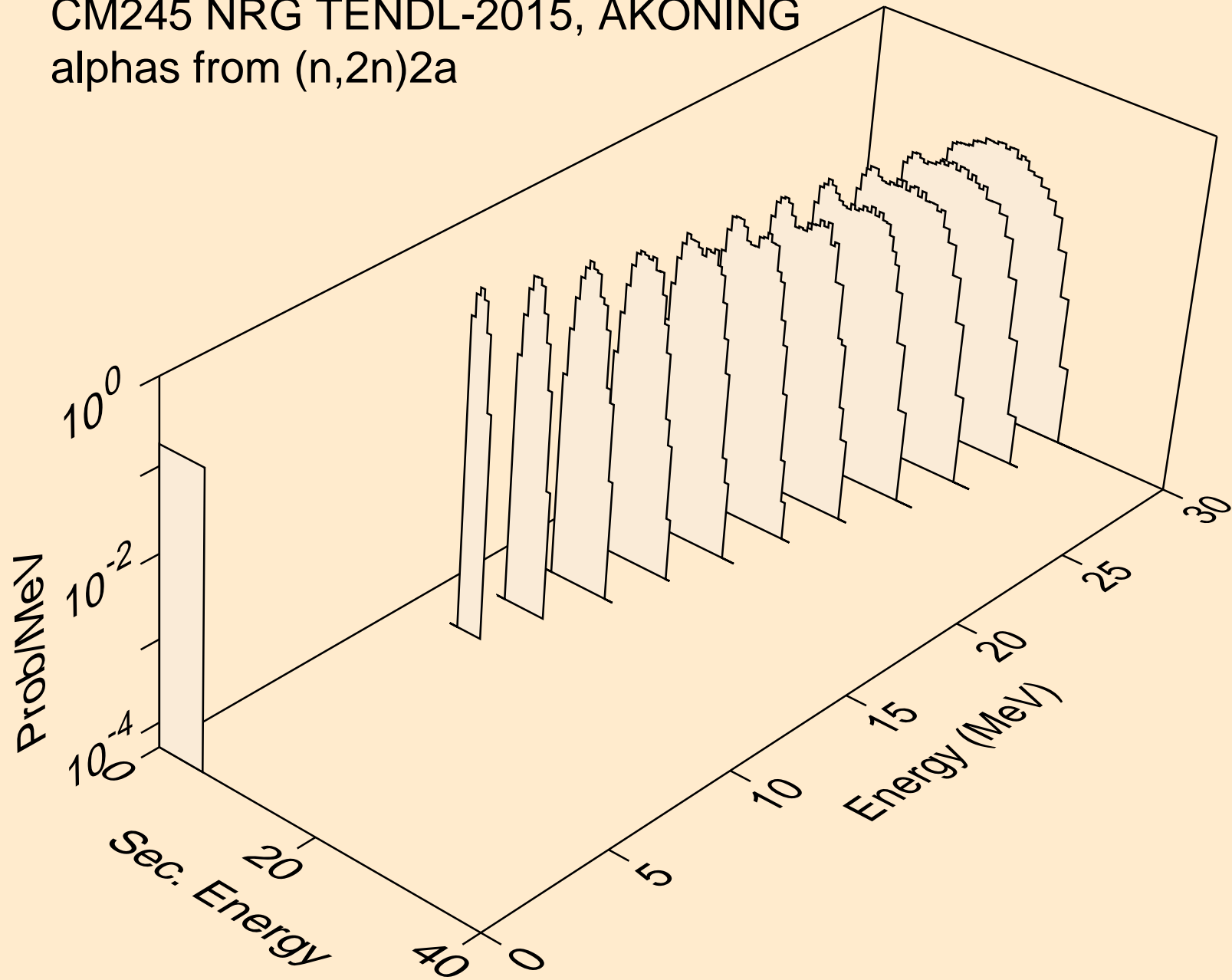alphas from (n,n*)2a

ProbiMeV

Sec. Energy

Energy (MeV)

CM245 NRG TENDL-2015, AKONING
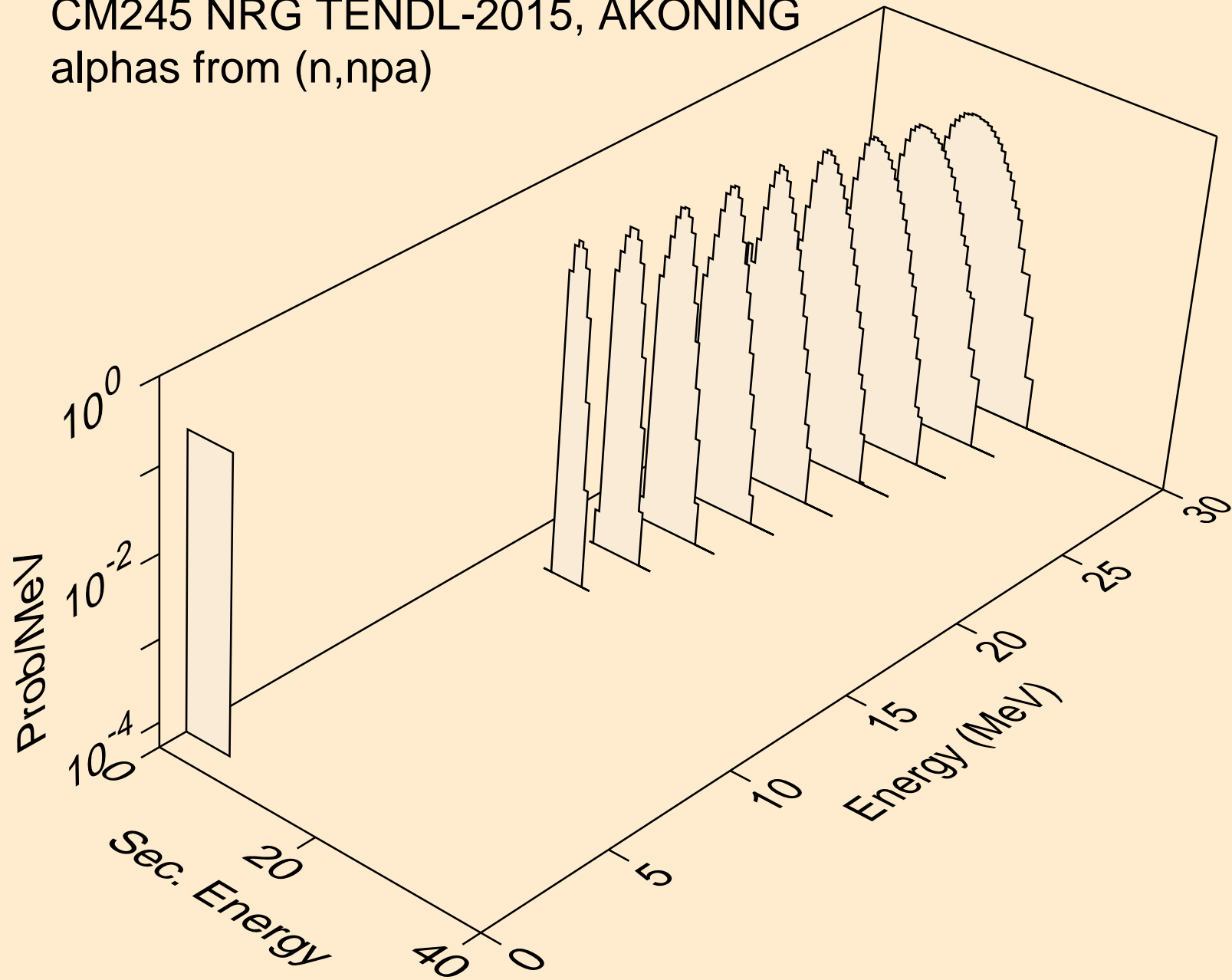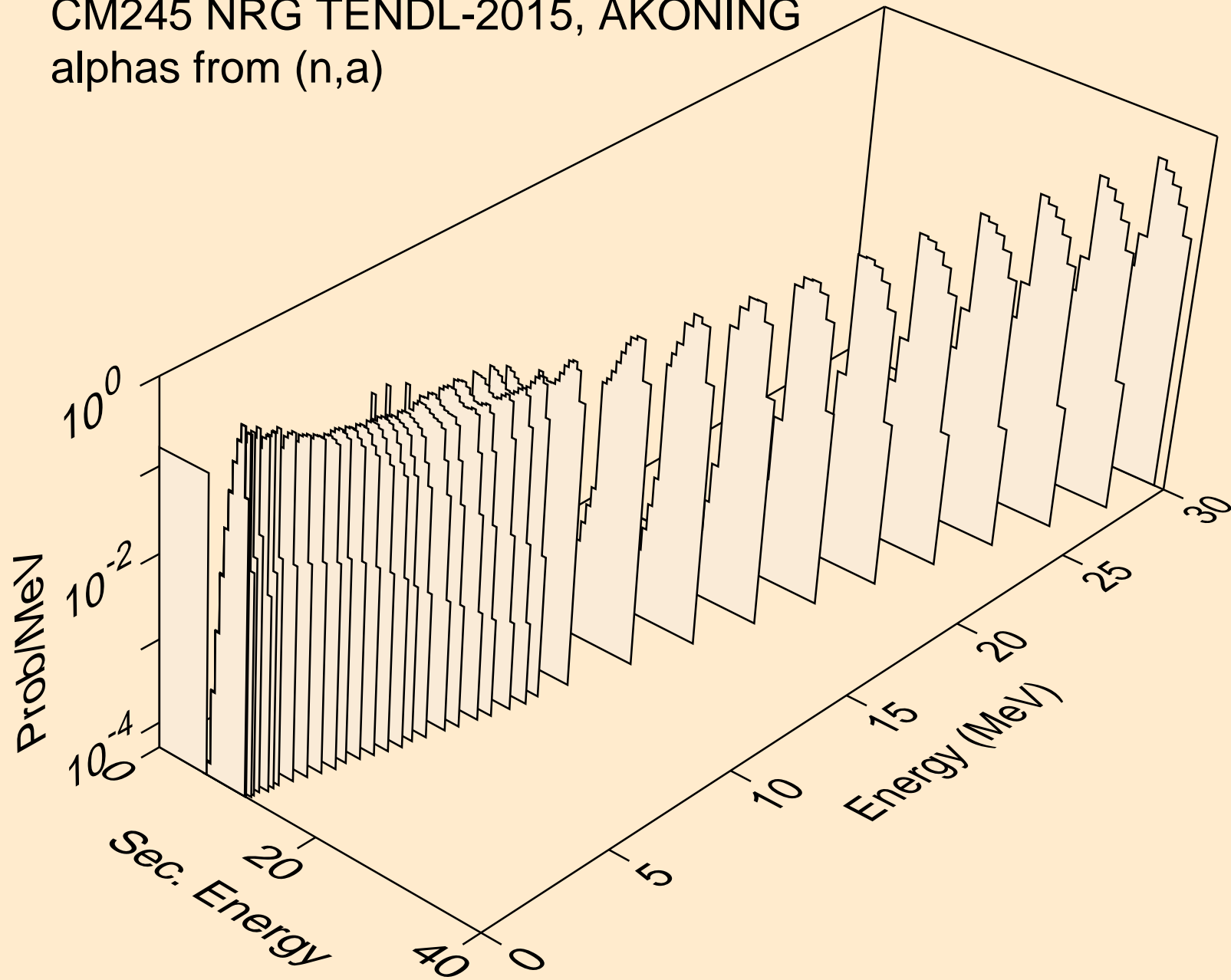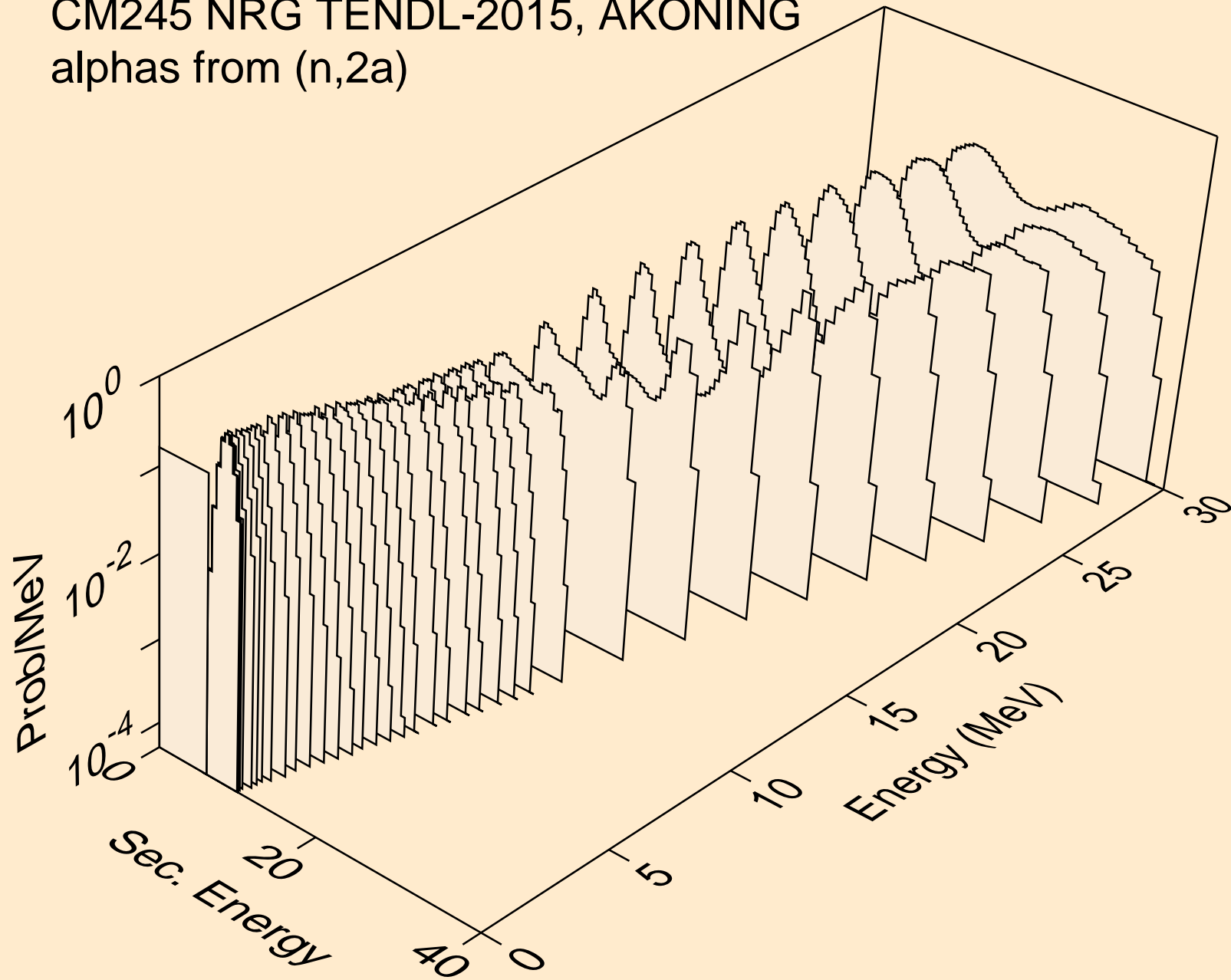alphas from (n,2n)2a

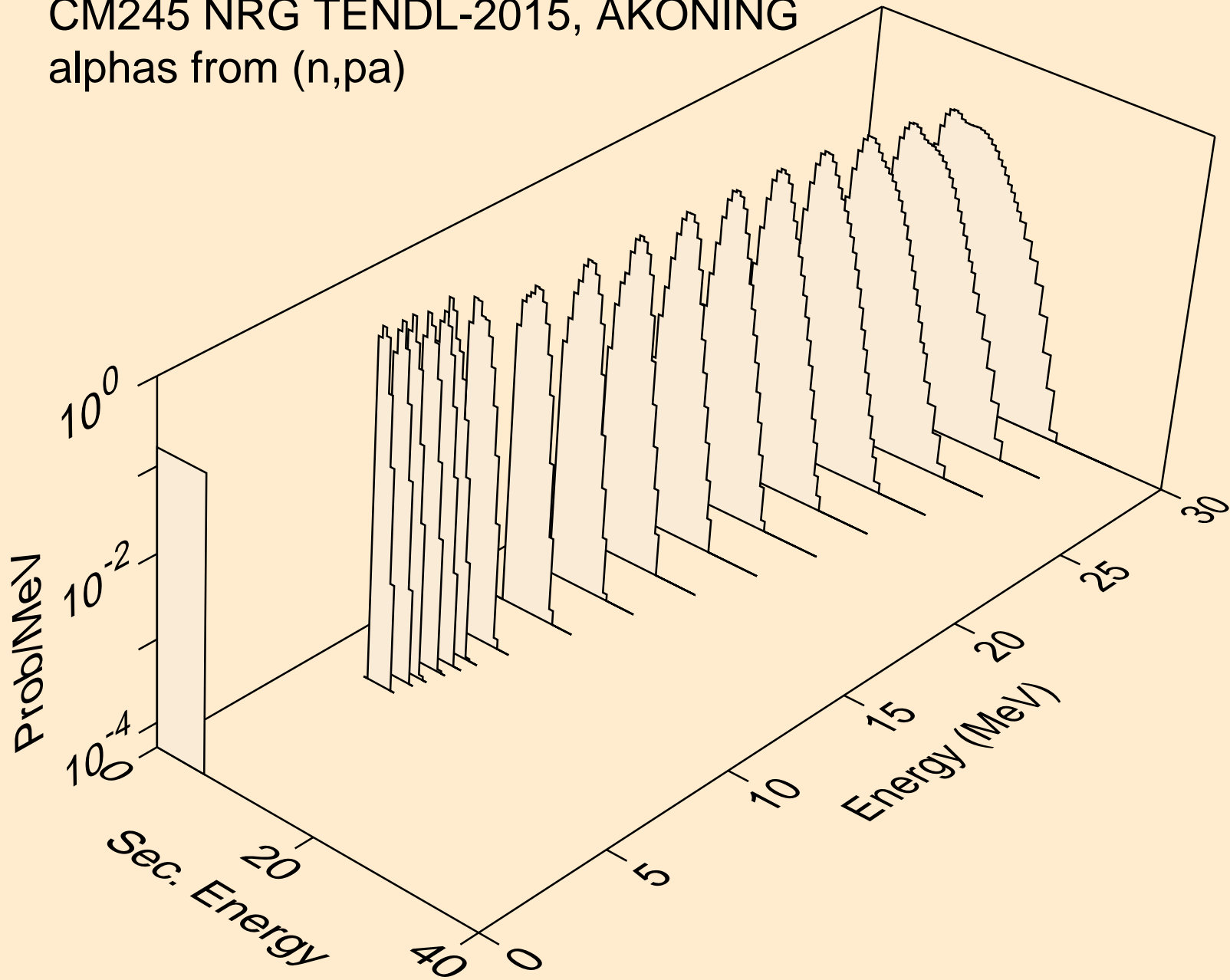CM245 NRG TENDL-2015, AKONING
alphas from (n,npa)

CM245 NRG TENDL-2015, AKONING
alphas from (n,a)

CM245 NRG TENDL-2015, AKONING
alphas from (n,2a)

CM245 NRG TENDL-2015, AKONING
alphas from (n,pa)

CM245 NRG TENDL-2015, AKONING
alphas from (n,da)