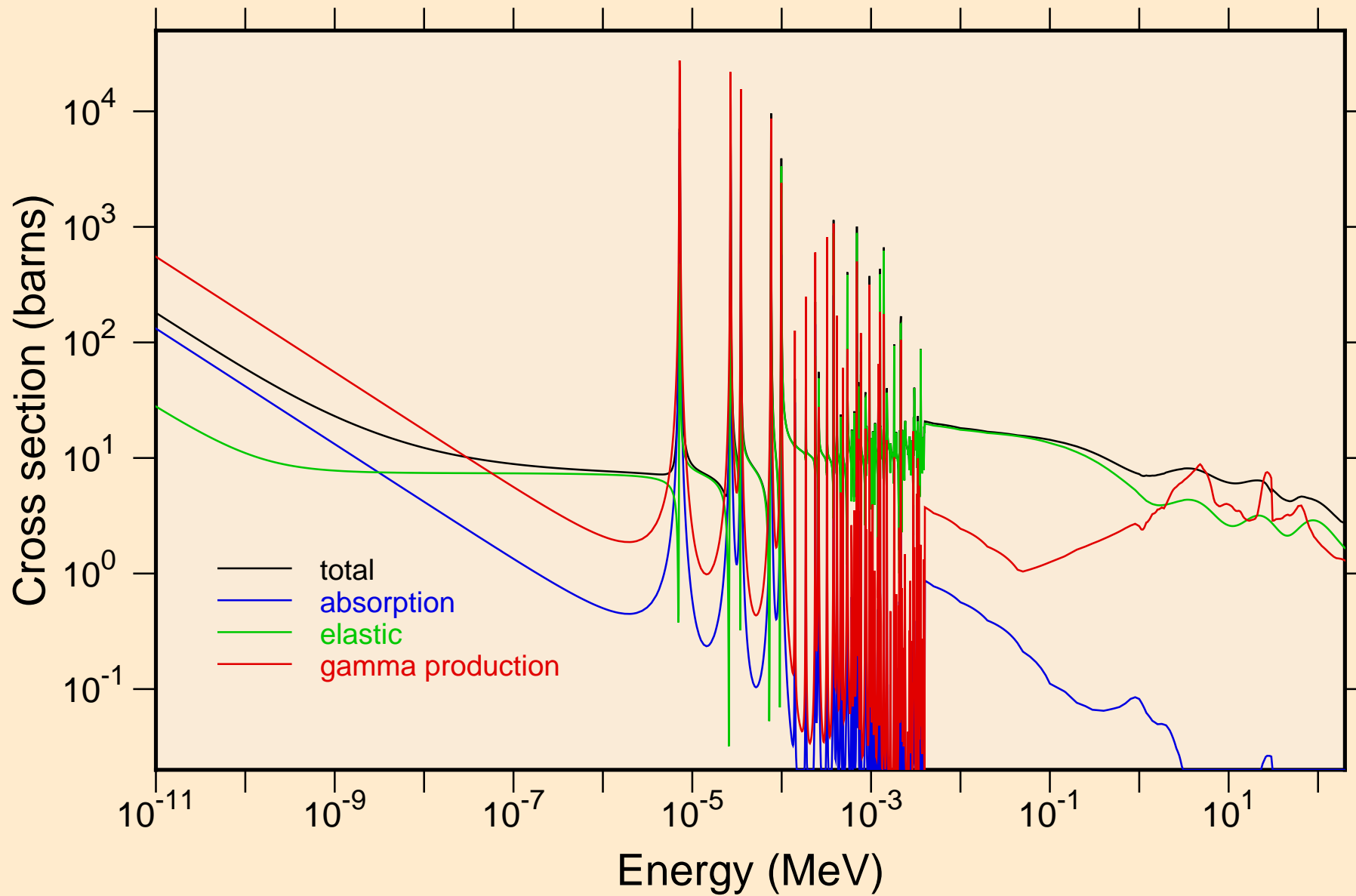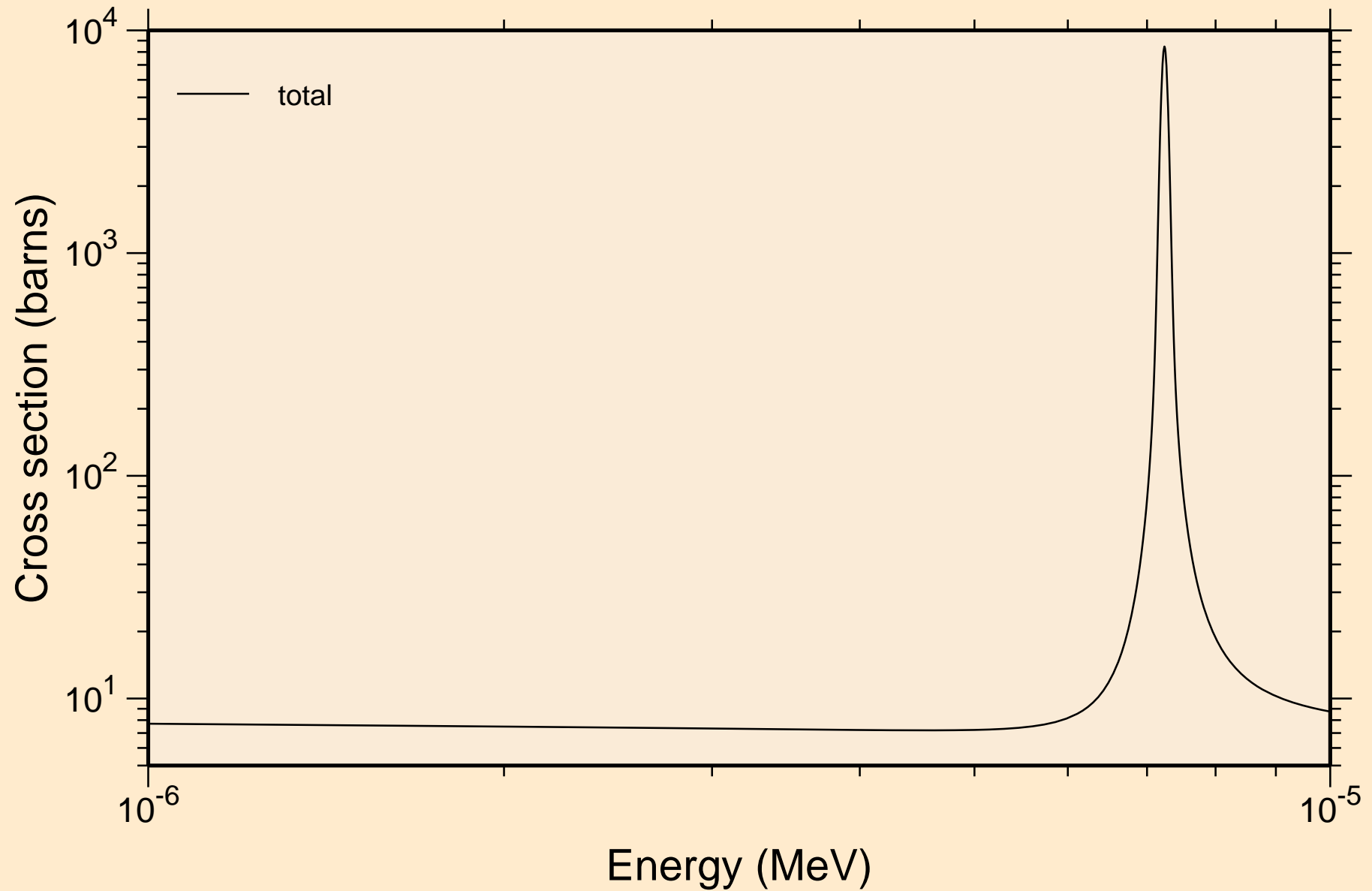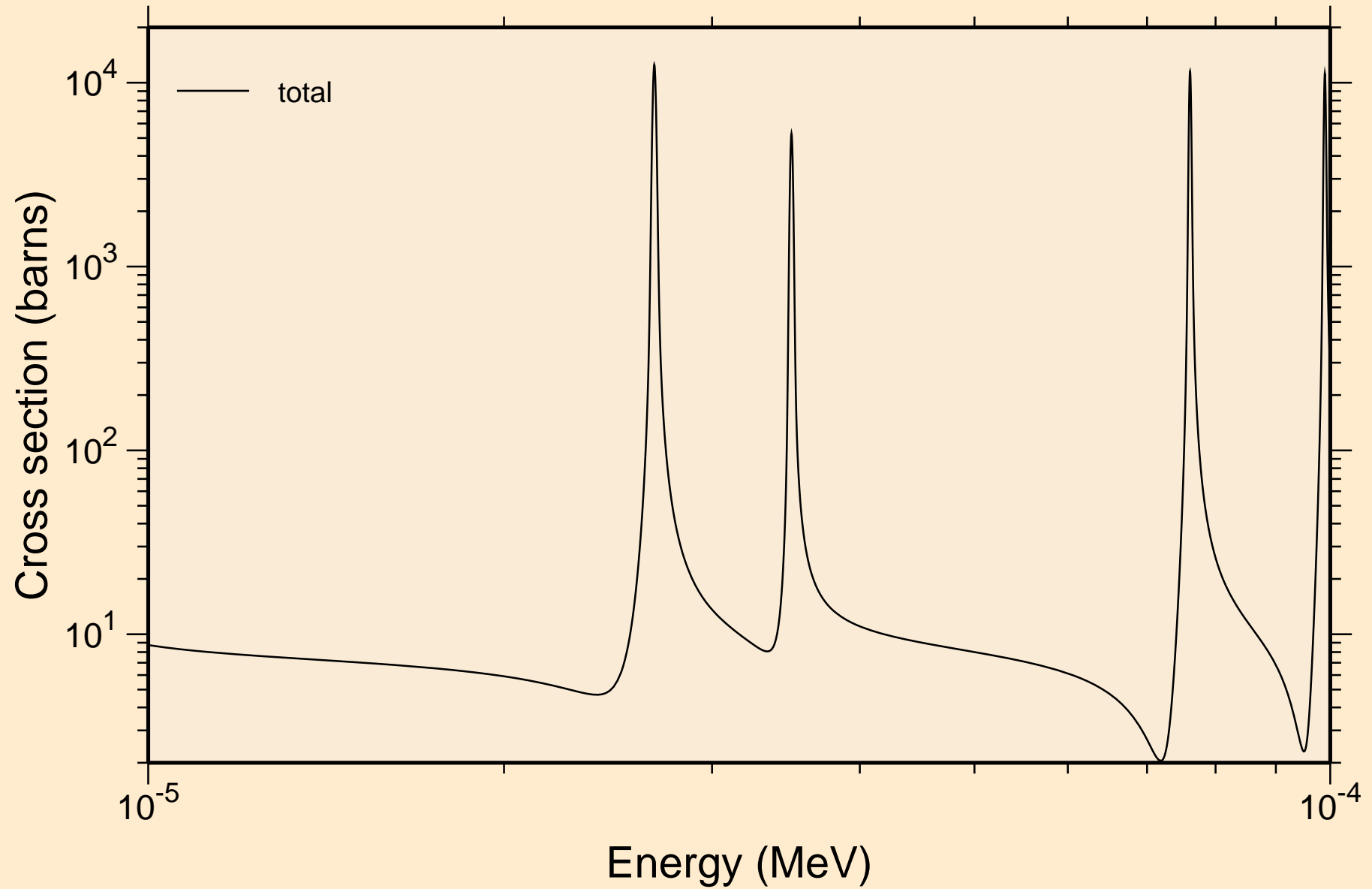CM248 NRG TENDL-2016, AKONING
Principal cross sections

CM248 NRG TENDL-2016, AKONING
resonance total cross section

CM248 NRG TENDL-2016, AKONING
resonance total cross section

CM248 NRG TENDL-2016, AKONING
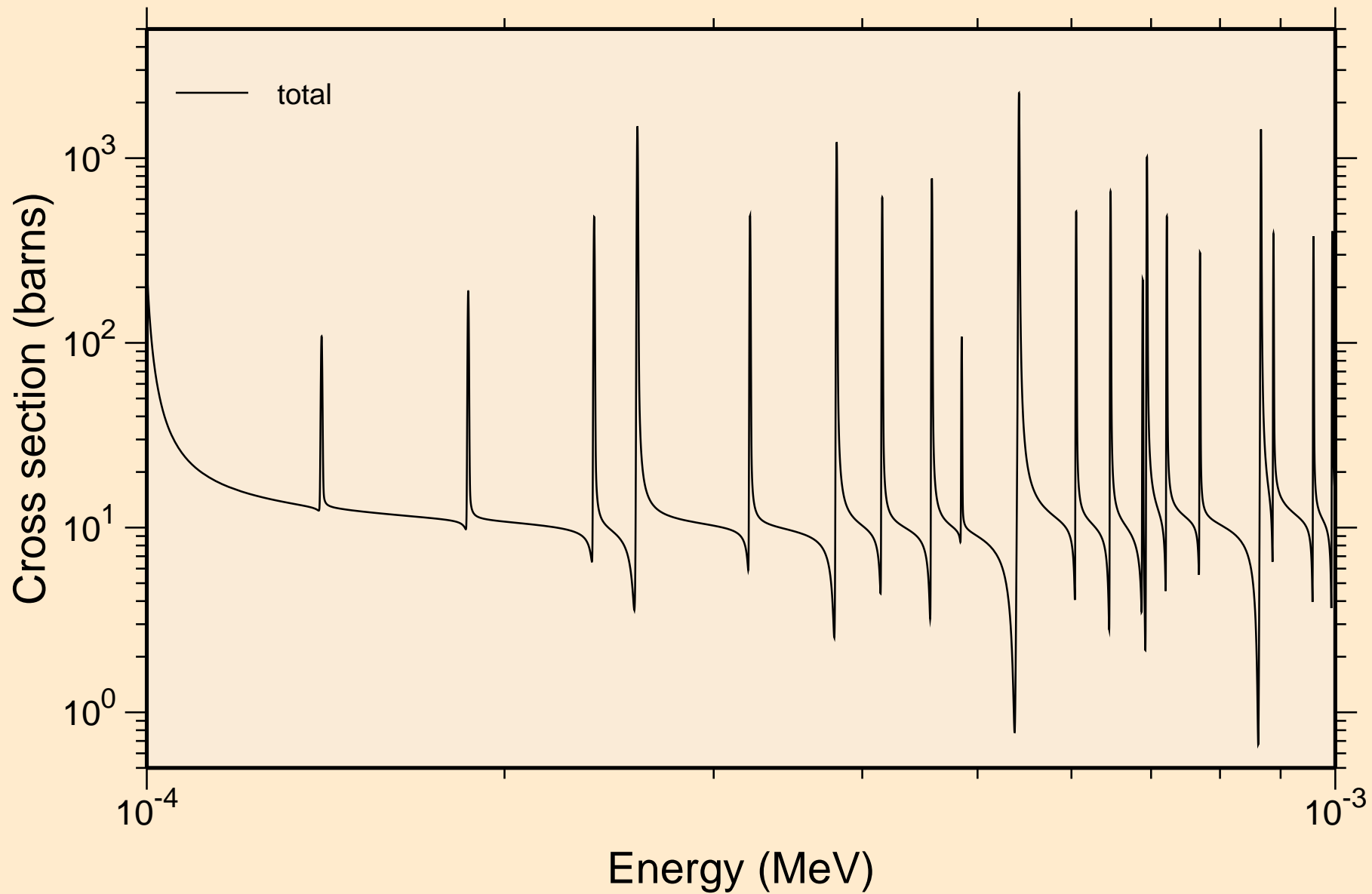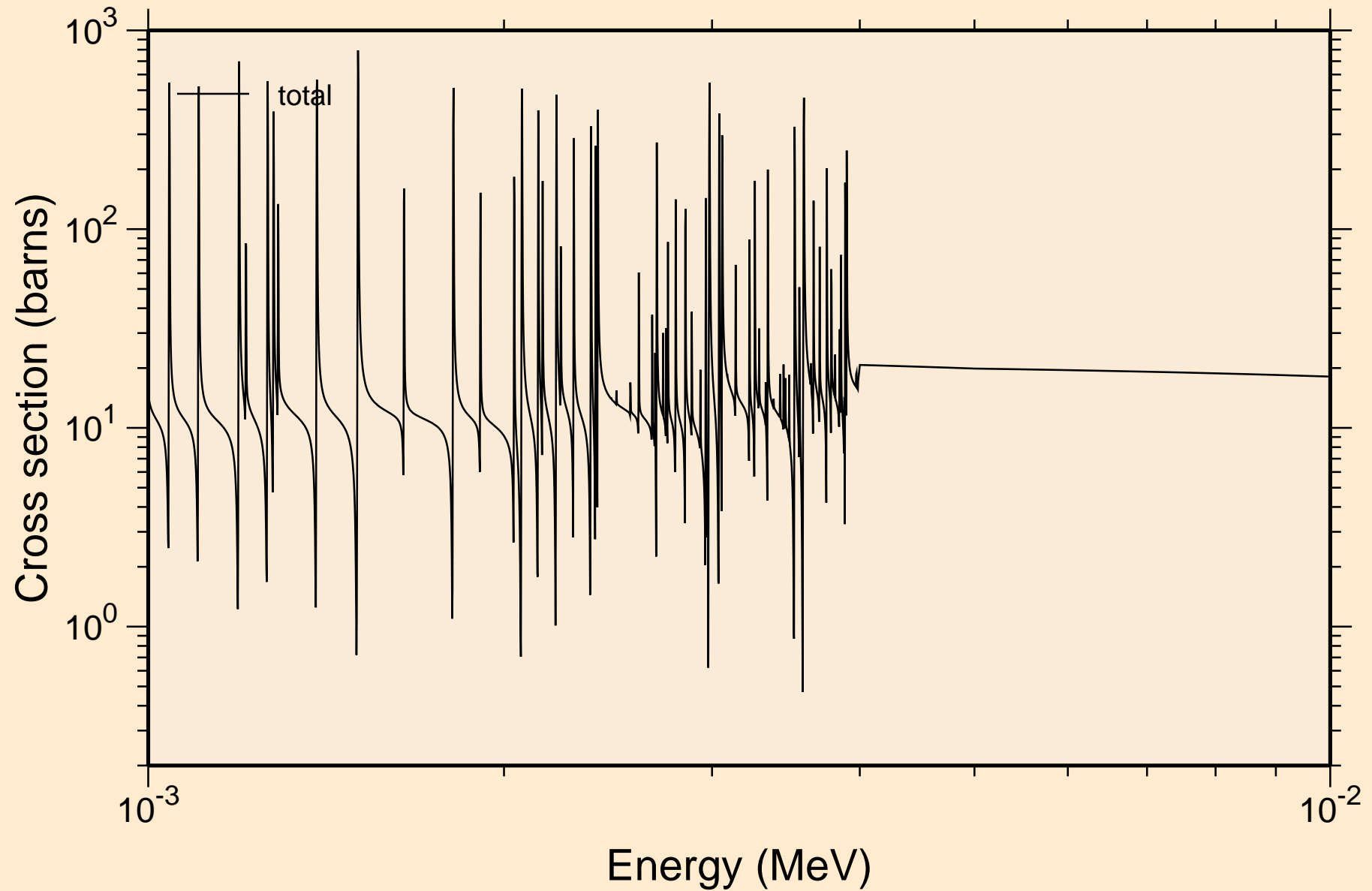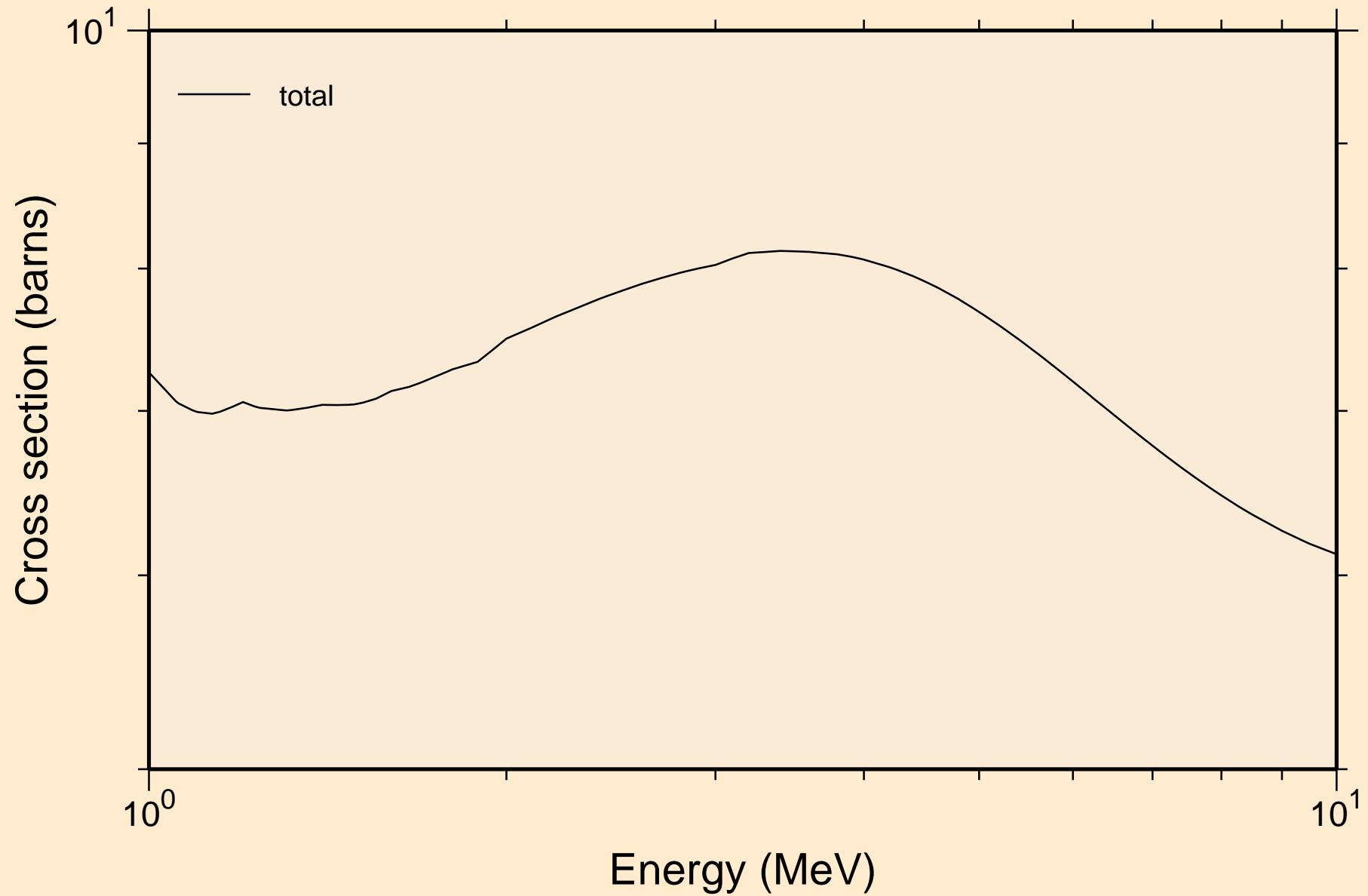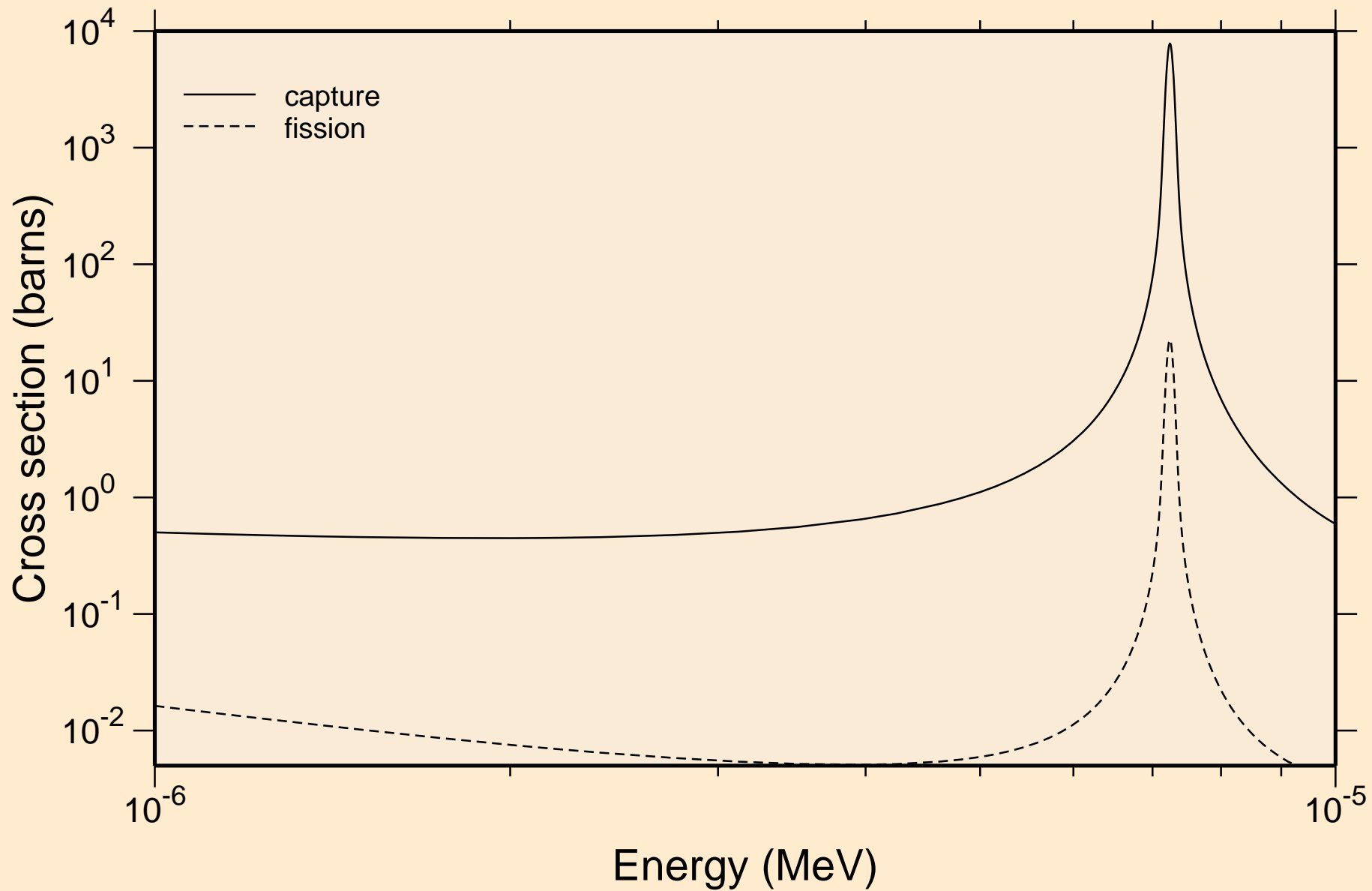resonance total cross section

CM248 NRG TENDL-2016, AKONING
resonance total cross section

CM248 NRG TENDL-2016, AKONING
resonance total cross section

CM248 NRG TENDL-2016, AKONING
resonance absorption cross sections

CM248 NRG TENDL-2016, AKONING
resonance absorption cross sections

CM248 NRG TENDL-2016, AKONING
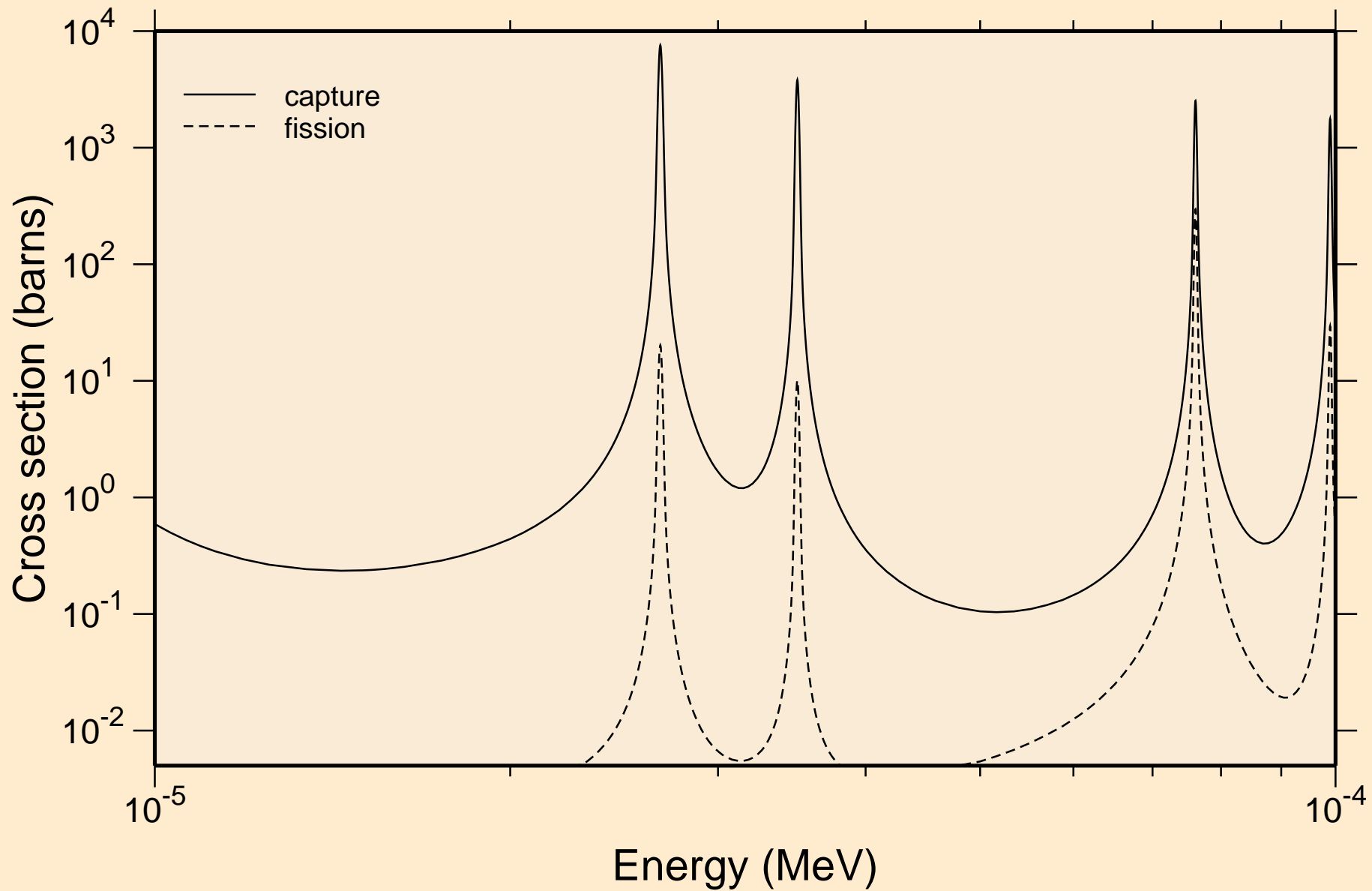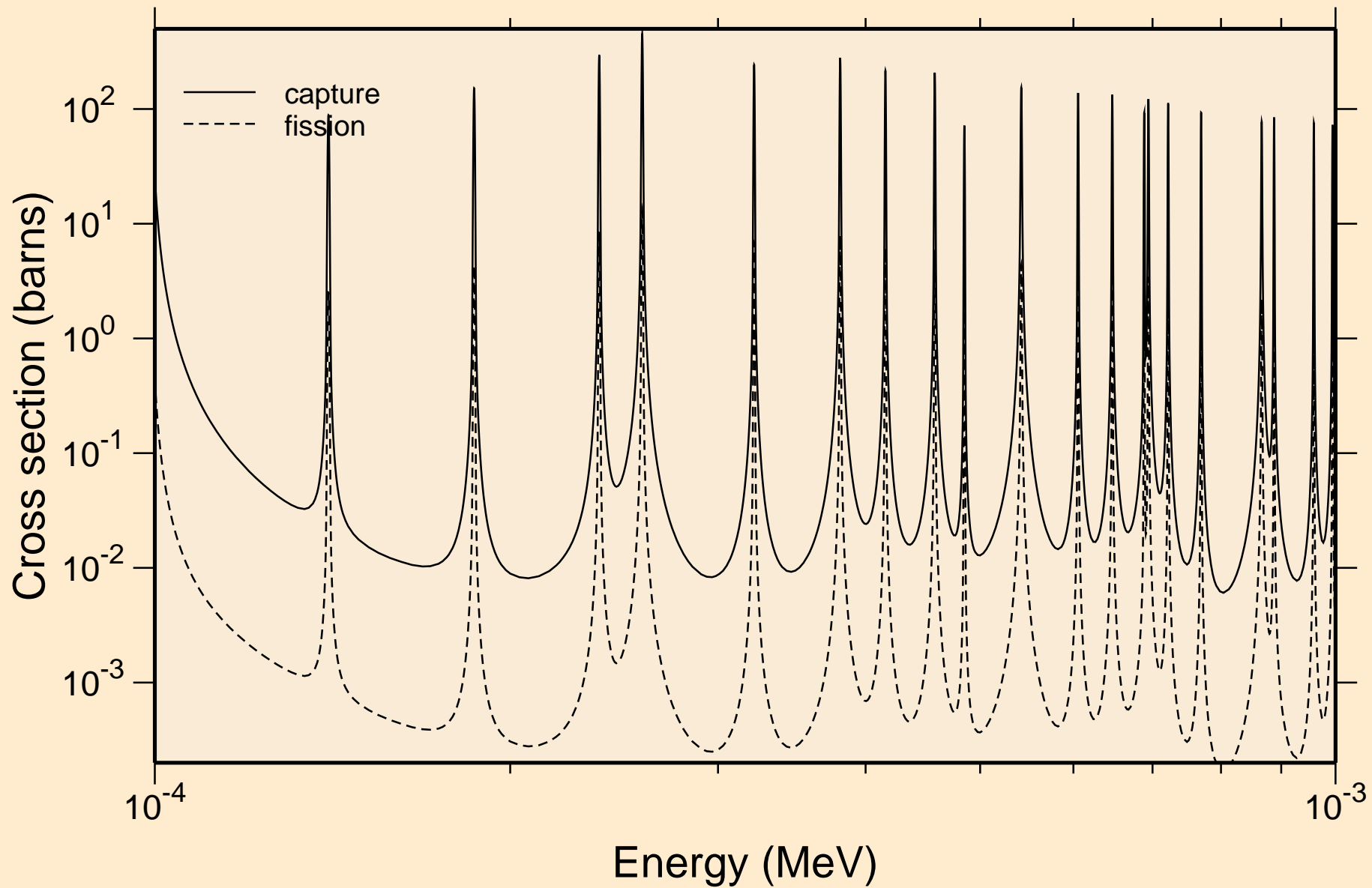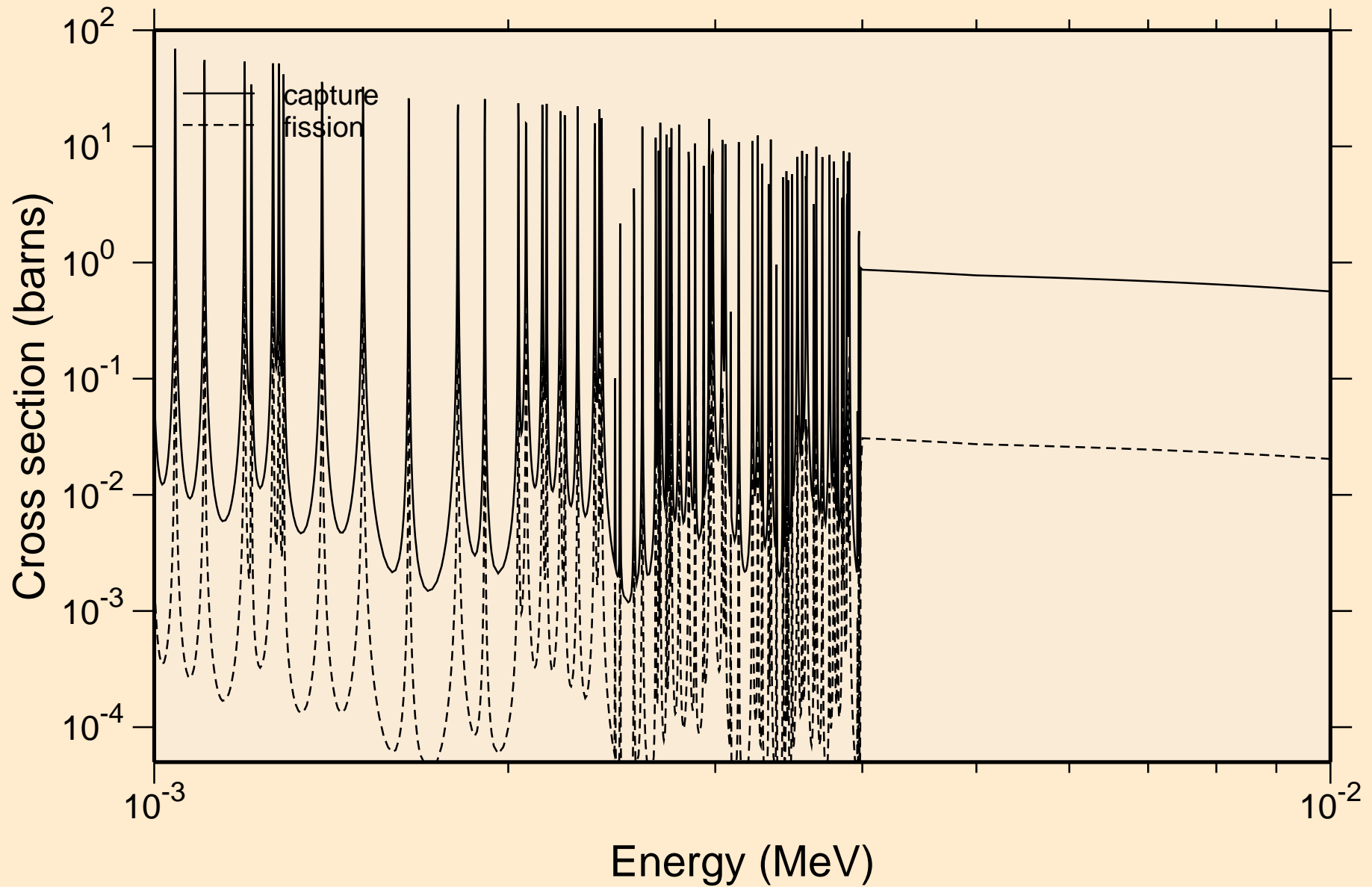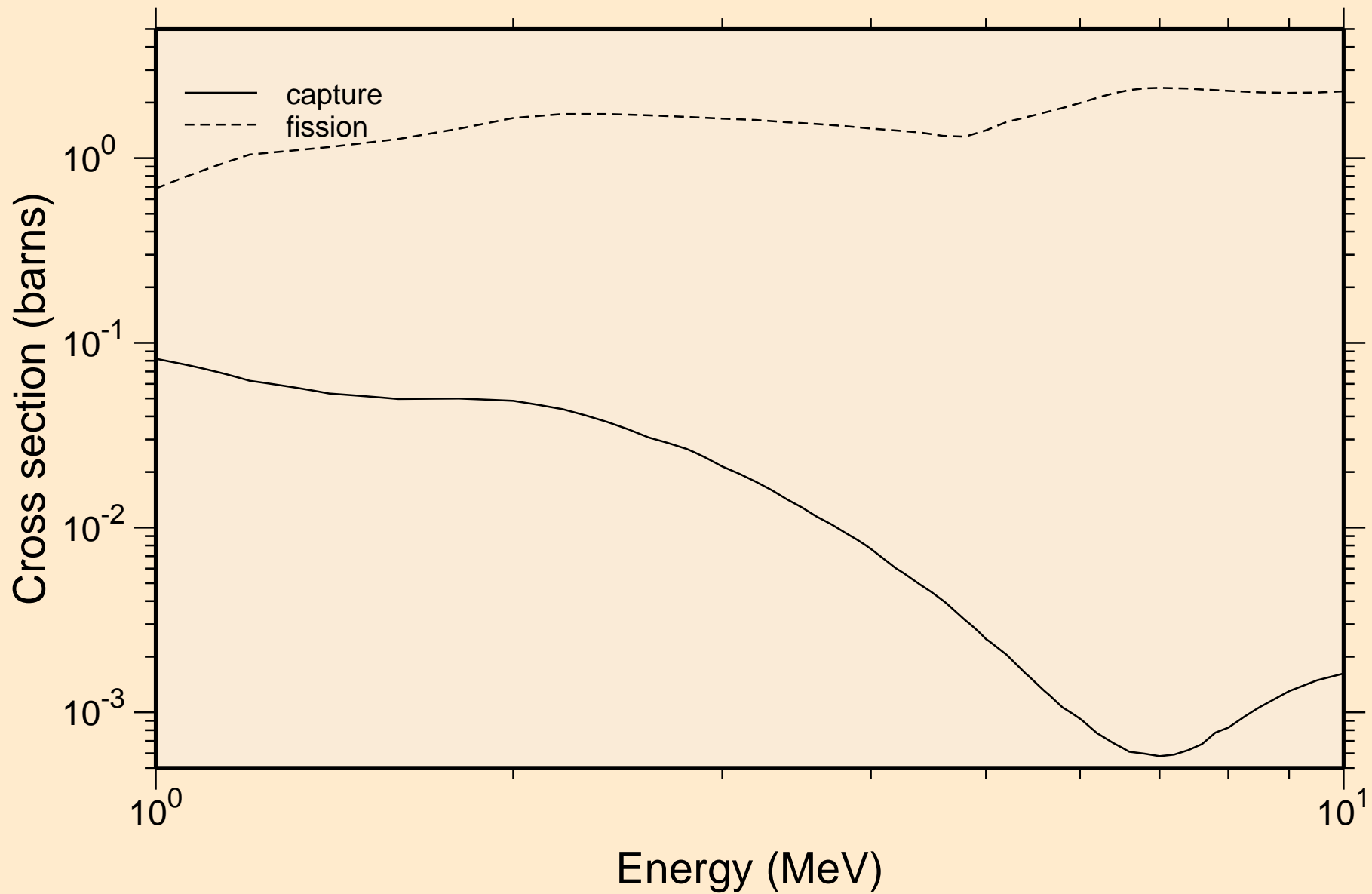resonance absorption cross sections

CM248 NRG TENDL-2016, AKONING
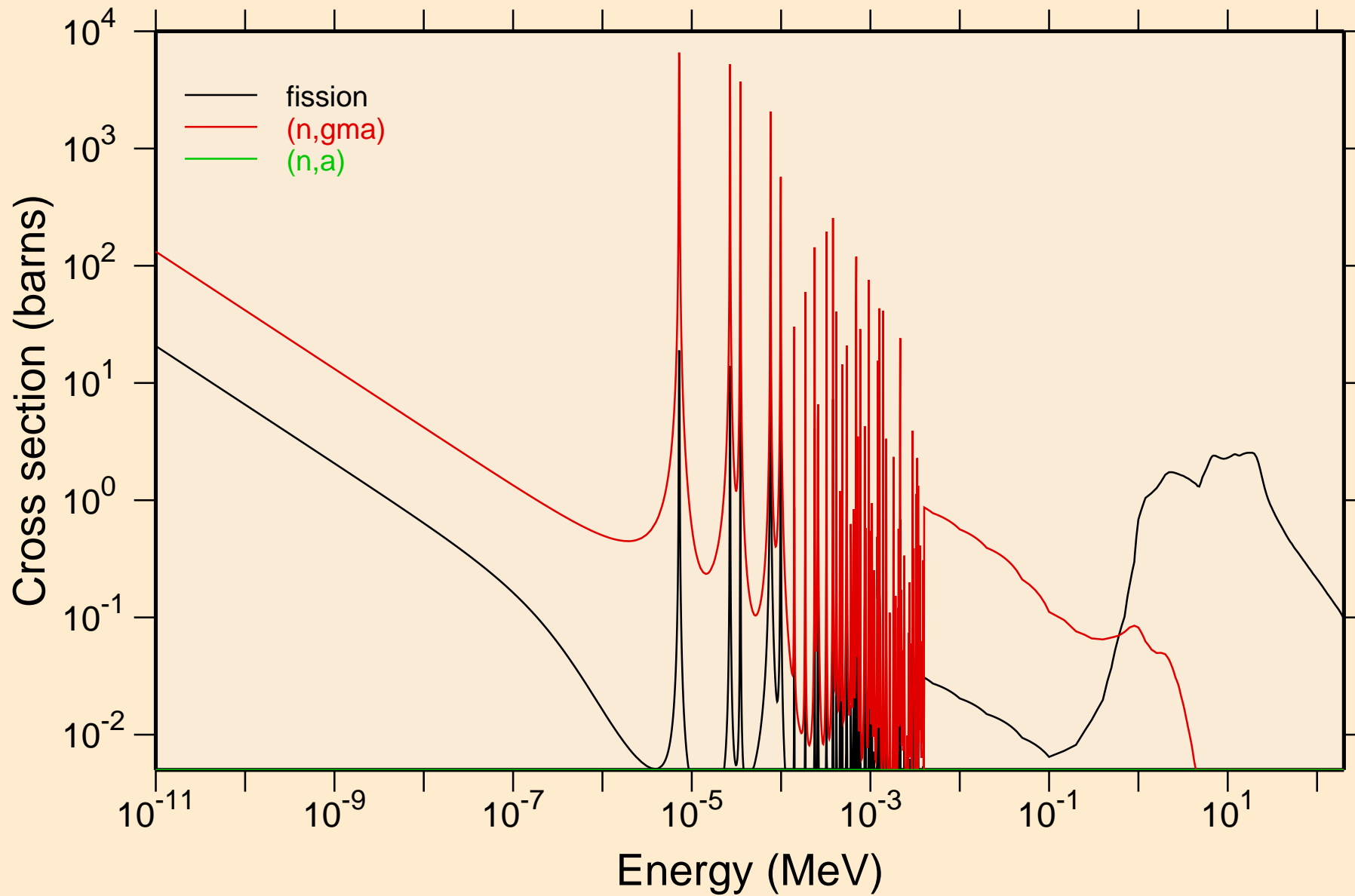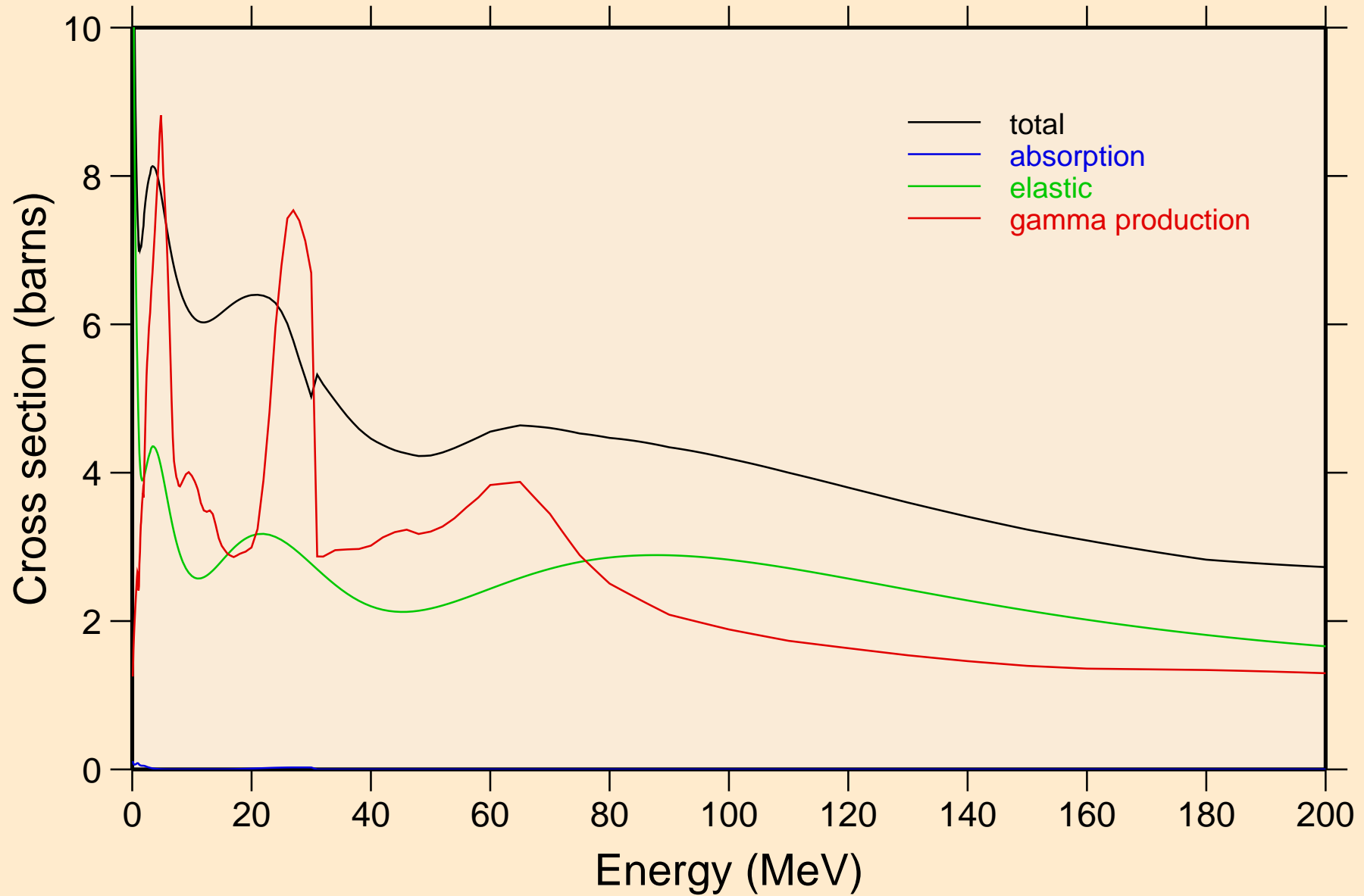resonance absorption cross sections

CM248 NRG TENDL-2016, AKONING
resonance absorption cross sections
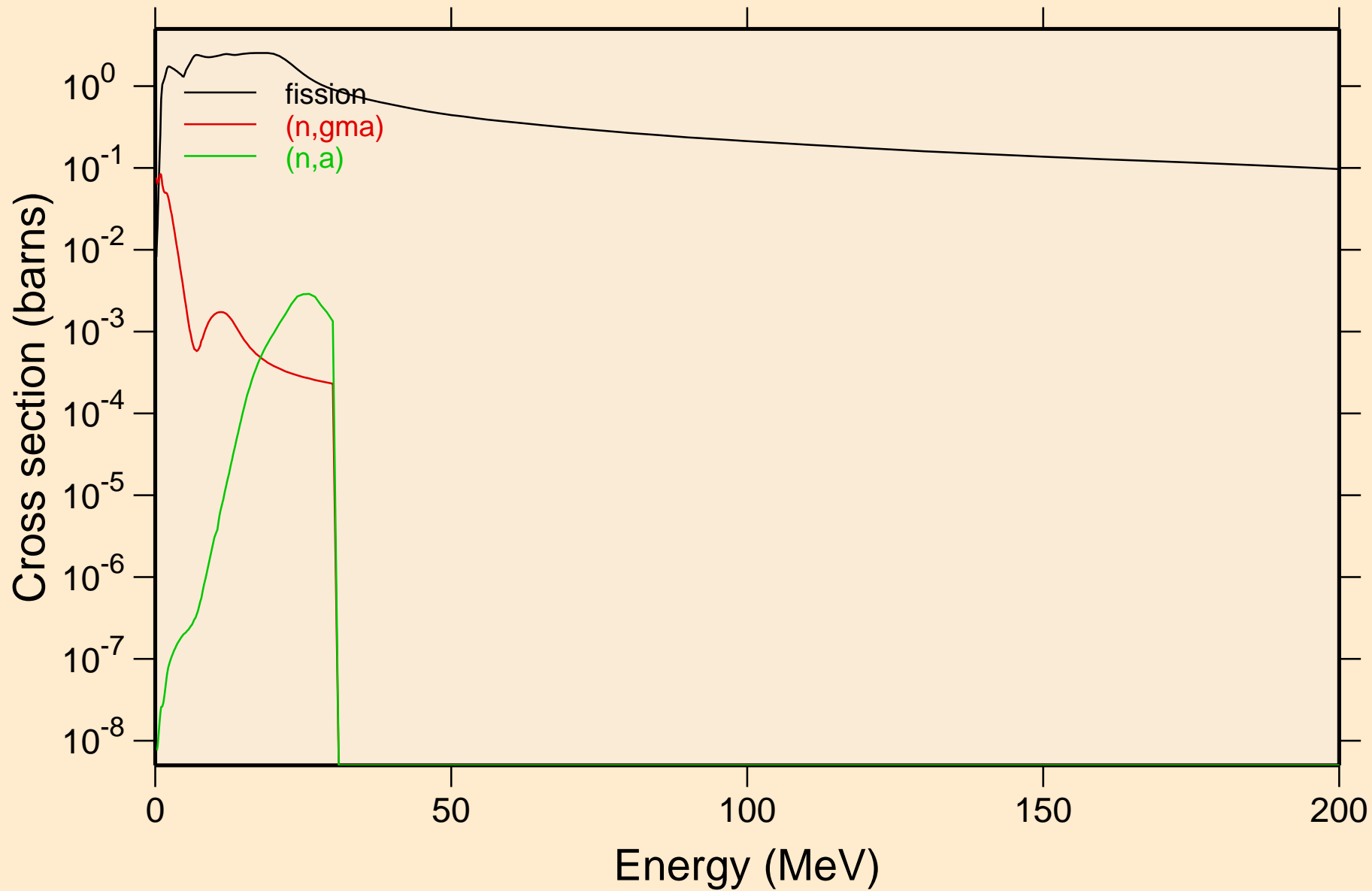
CM248 NRG TENDL-2016, AKONING
Non-threshold reactions

CM248 NRG TENDL-2016, AKONING
Principal cross sections
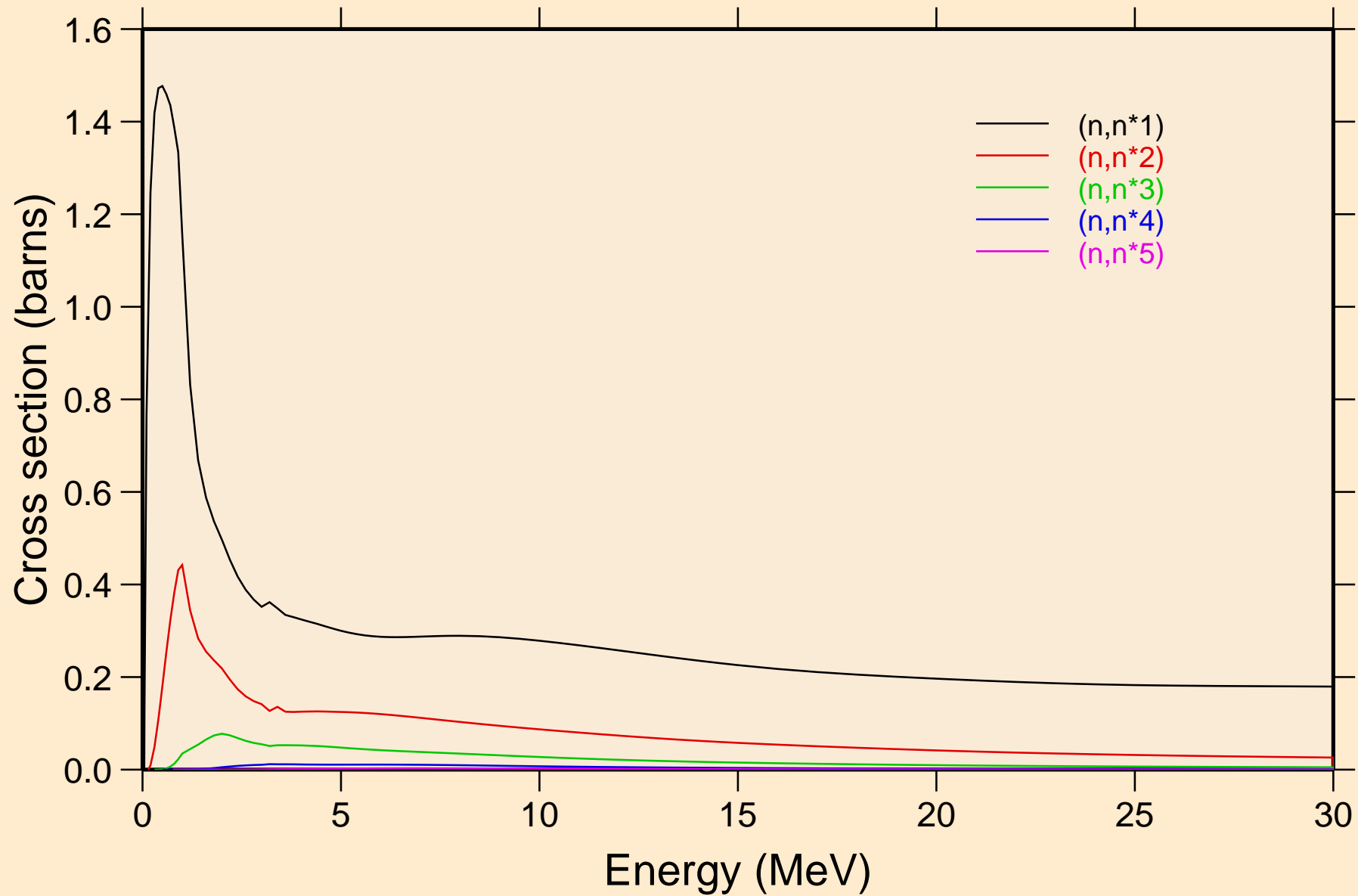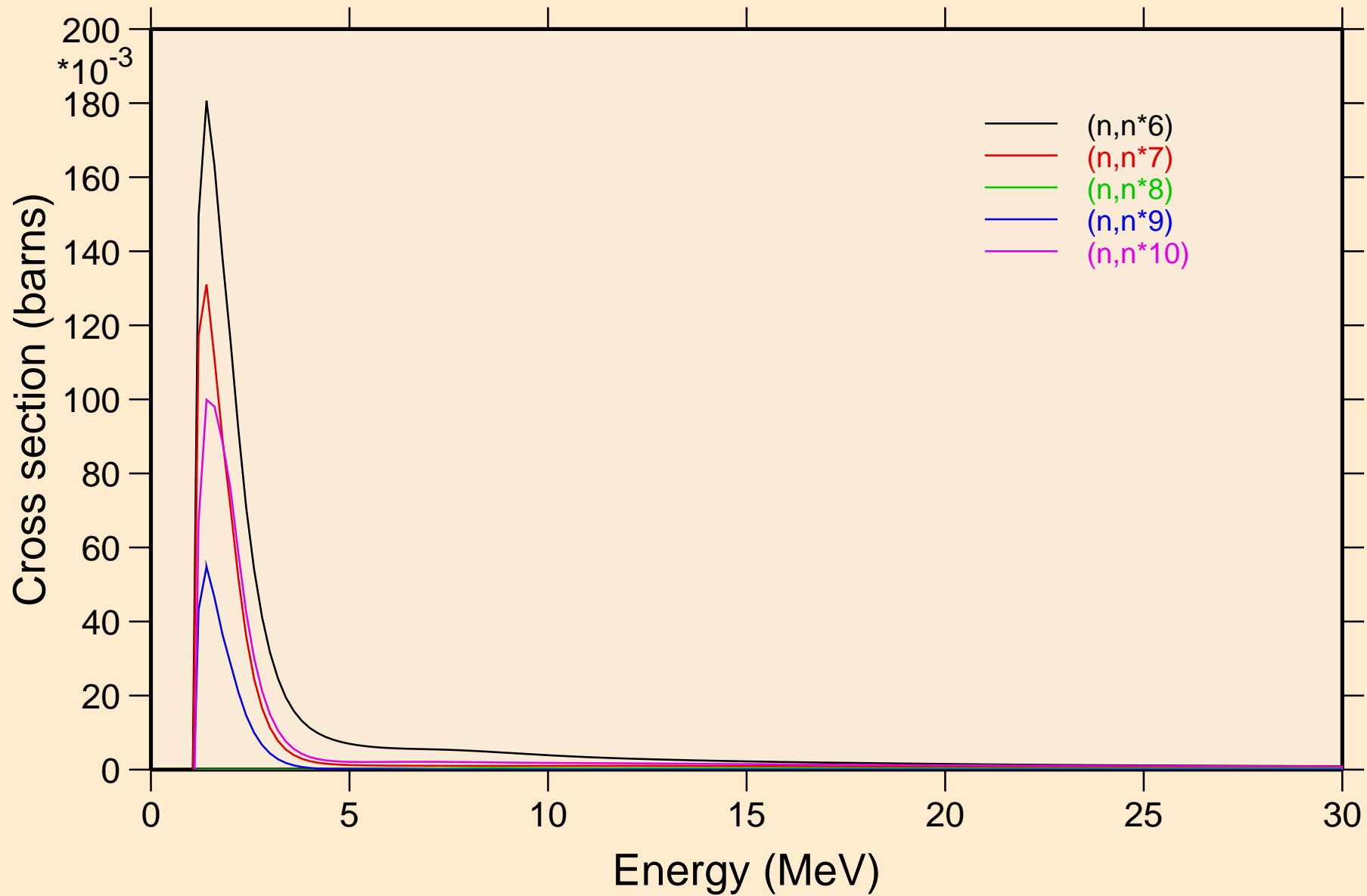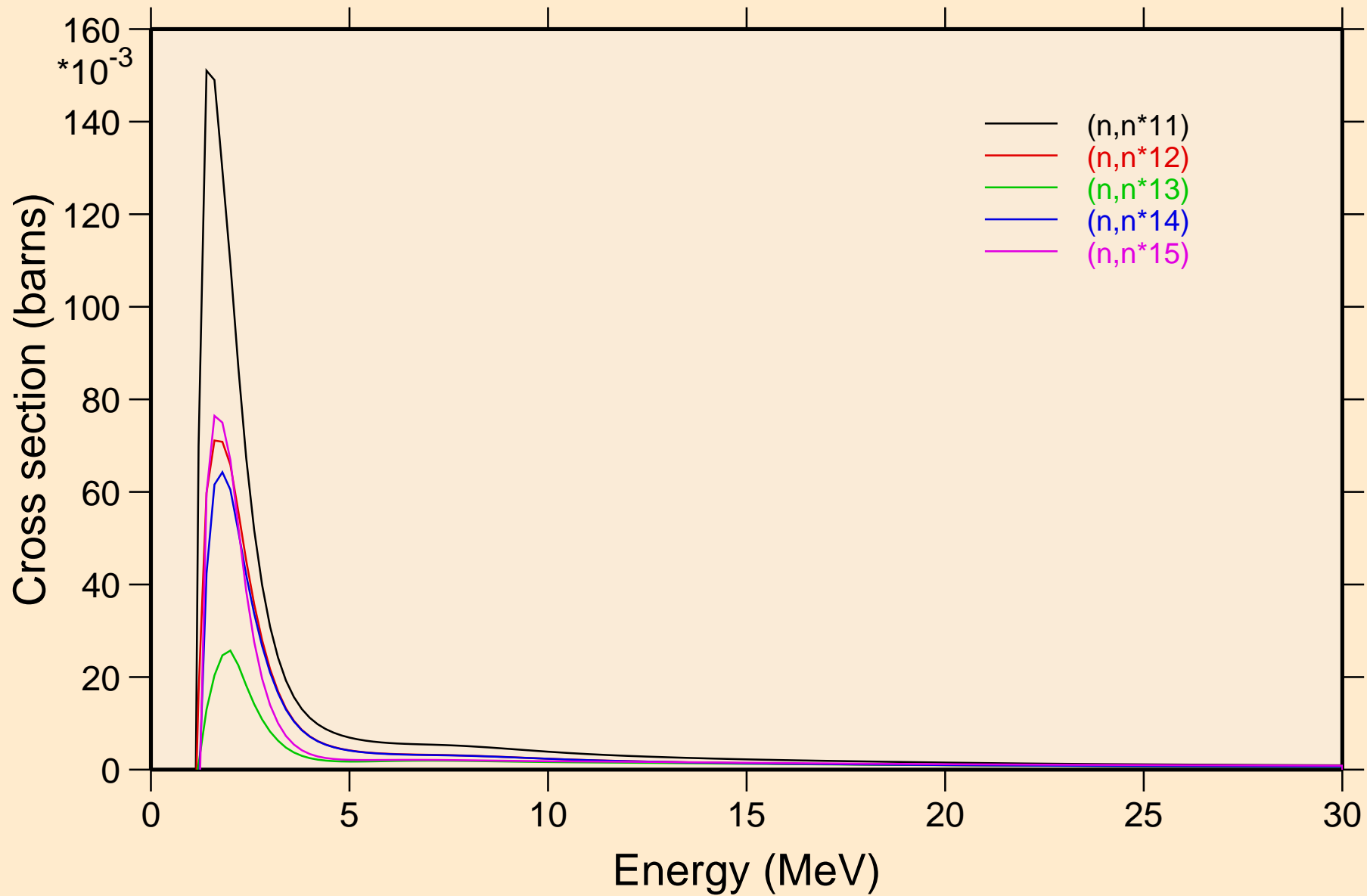
- total
- absorption
- elastic
- gamma production

CM248 NRG TENDL-2016, AKONING
Non-threshold reactions

CM248 NRG TENDL-2016, AKONING
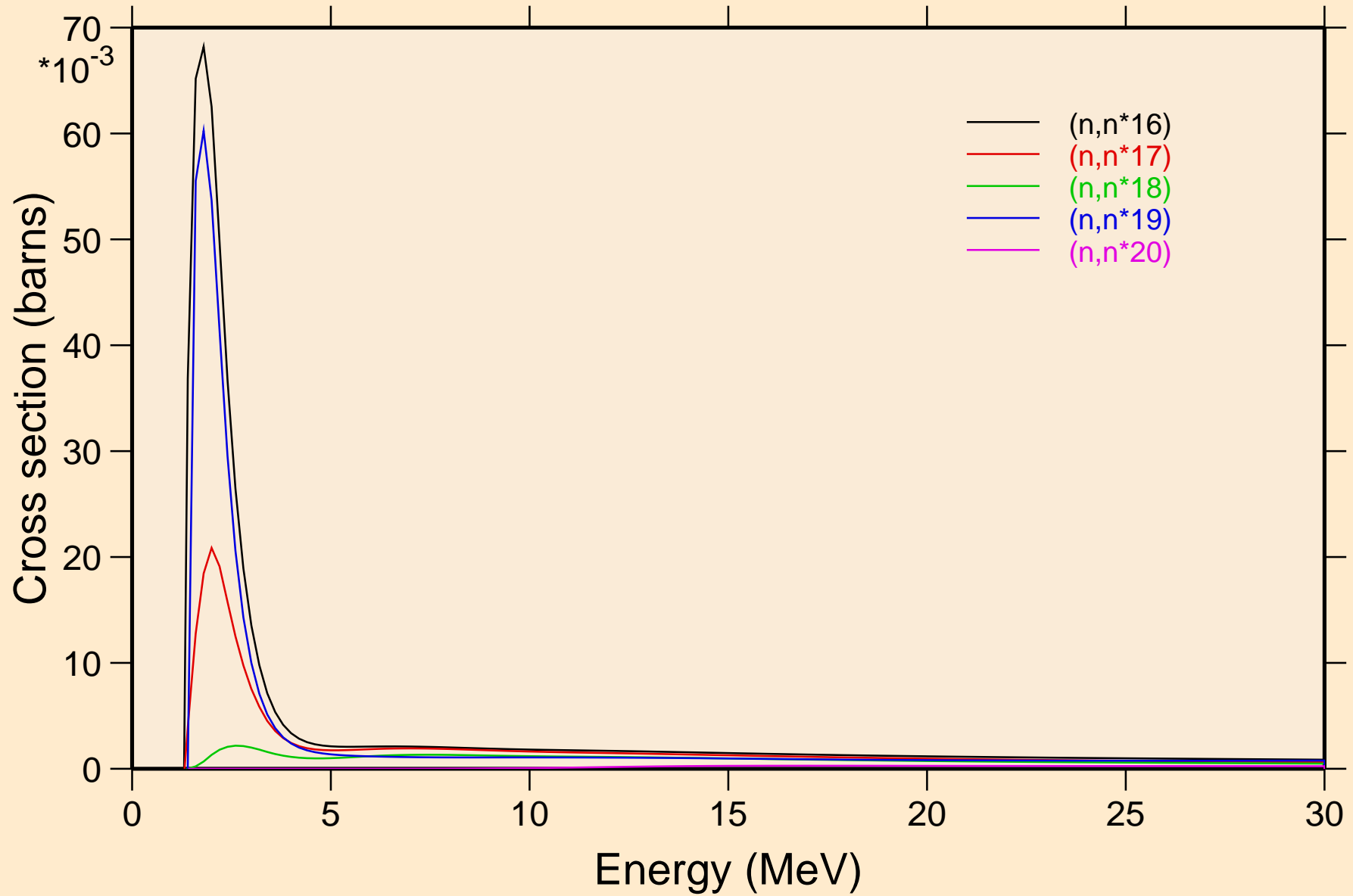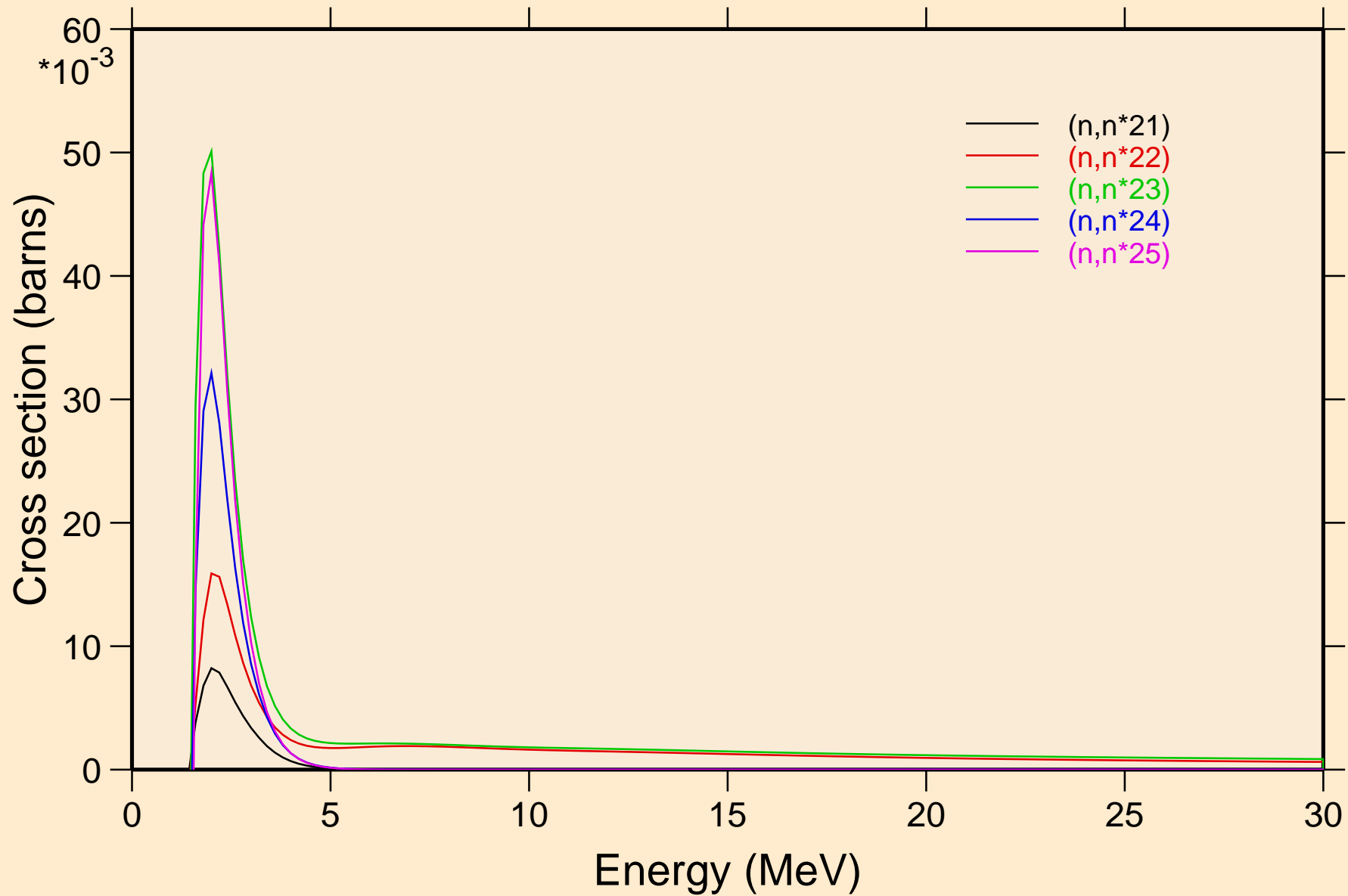Inelastic levels

CM248 NRG TENDL-2016, AKONING
Inelastic levels

Cross section (barns) vs Energy (MeV)

200 *10^{-3}

Legend:
- (n,n*6) — black
- (n,n*7) — red
- (n,n*8) — green
- (n,n*9) — blue
- (n,n*10) — magenta

CM248 NRG TENDL-2016, AKONING
Inelastic levels

Cross section (barns) vs Energy (MeV)

Legend:
- (n,n*11)
- (n,n*12)
- (n,n*13)
- (n,n*14)
- (n,n*15)

CM248 NRG TENDL-2016, AKONING
Inelastic levels

Legend:
- (n,n*16)
- (n,n*17)
- (n,n*18)
- (n,n*19)
- (n,n*20)

Y-axis: Cross section (barns), scale $\times 10^{-3}$

X-axis: Energy (MeV)

CM248 NRG TENDL-2016, AKONING
Inelastic levels

Cross section (barns)

$*10^{-3}$

Energy (MeV)

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

CM248 NRG TENDL-2016, AKONING
Inelastic levels

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

CM248 NRG TENDL-2016, AKONING
Threshold reactions

Cross section (barns) vs Energy (MeV)

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

CM248 NRG TENDL-2016, AKONING
Threshold reactions

Cross section (barns)

Energy (MeV)

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

CM248 NRG TENDL-2016, AKONING
Threshold reactions

Legend:
- (n,n*)he3
- (n,4n)
- (n,2np)
- (n,3np)
- (n,2np)

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

CM248 NRG TENDL-2016, AKONING
Threshold reactions

Cross section (barns) vs Energy (MeV)

Legend:
- (n,npa) — black
- (n,n*c) — red
- (n,p) — green
- (n,d) — blue
- (n,t) — magenta

CM248 NRG TENDL-2016, AKONING
Threshold reactions

Cross section (barns) vs Energy (MeV)
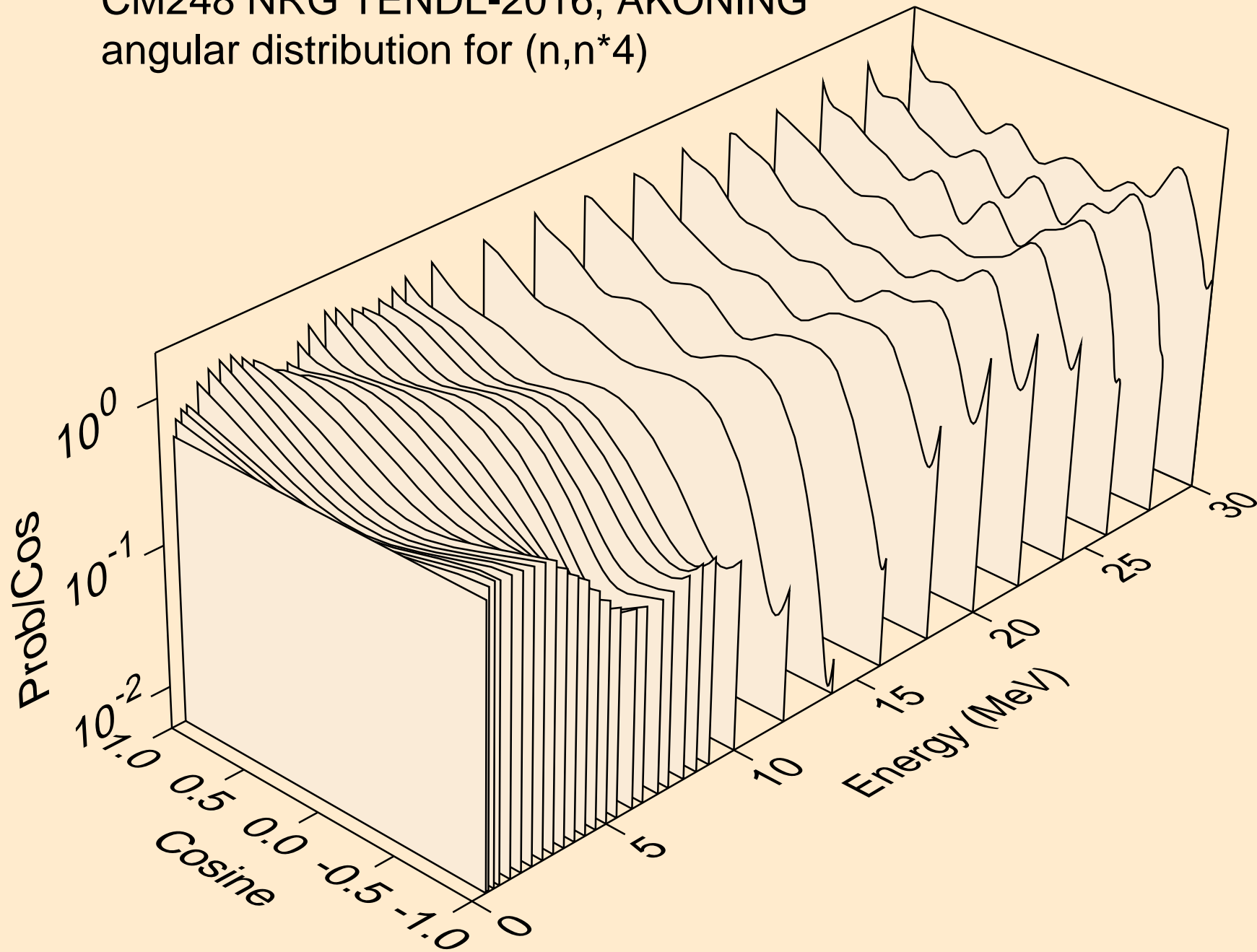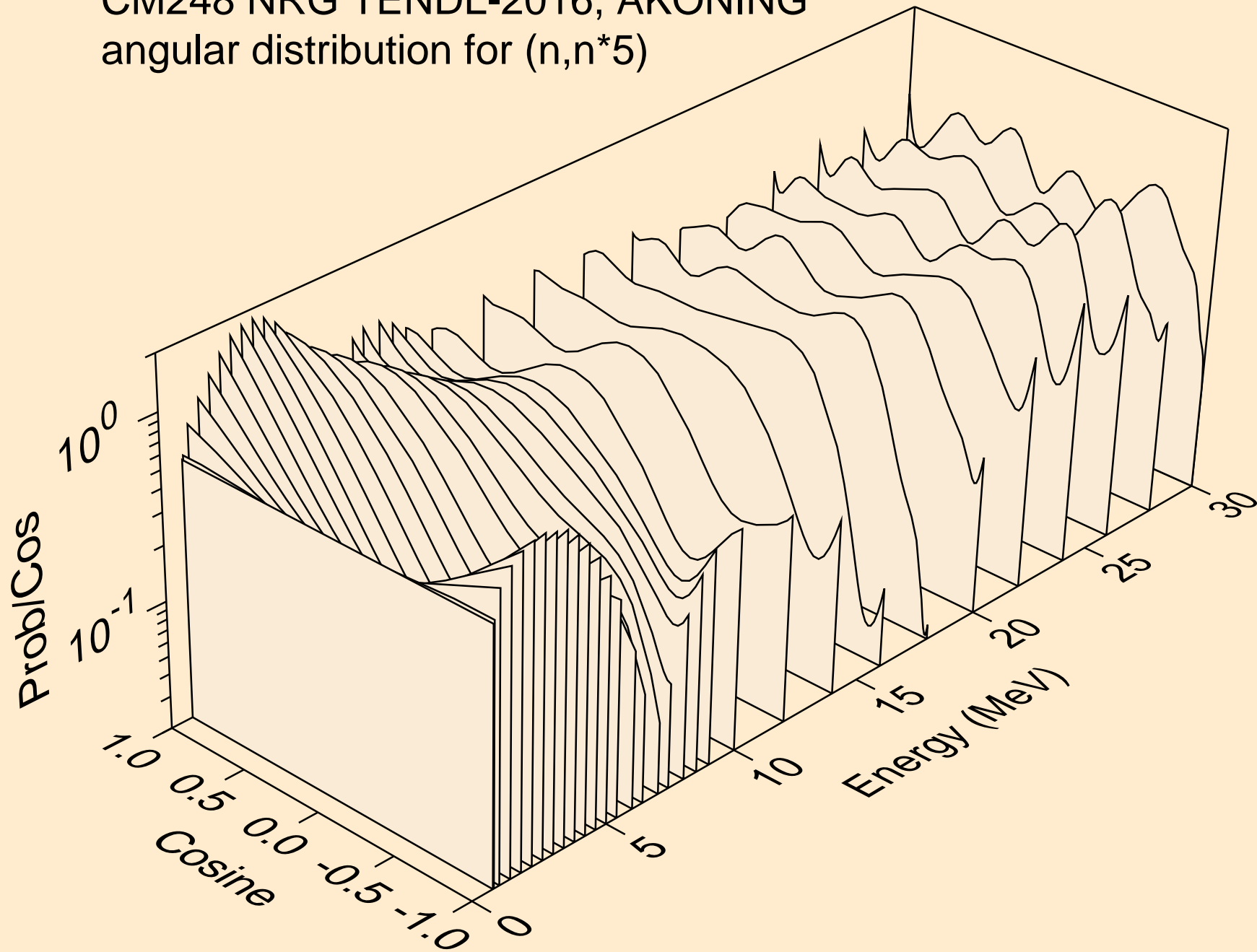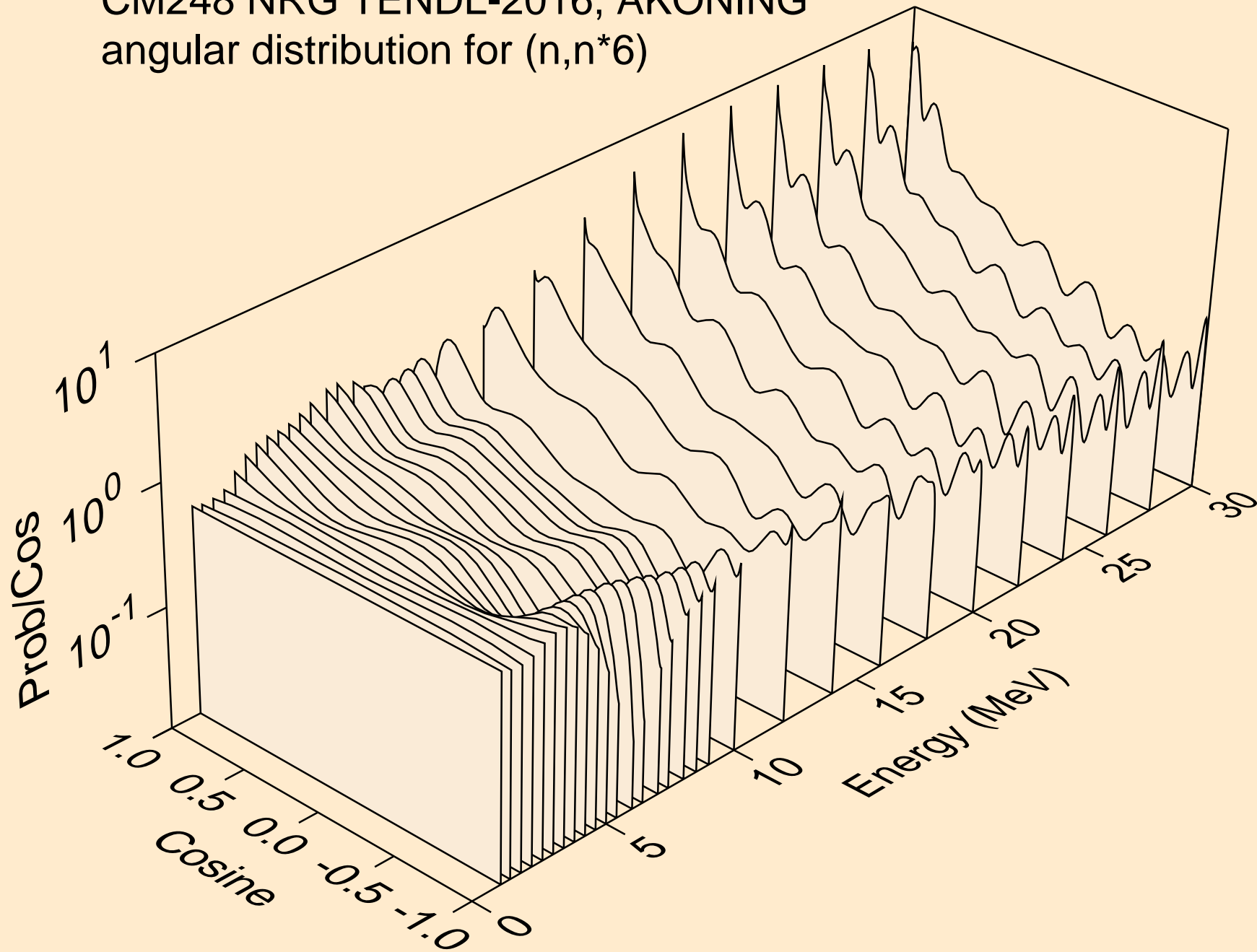
Legend:
- (n,he3) — black
- (n,2p) — red

CM248 NRG TENDL-2016, AKONING
angular distribution for elastic

CM248 NRG TENDL-2016, AKONING
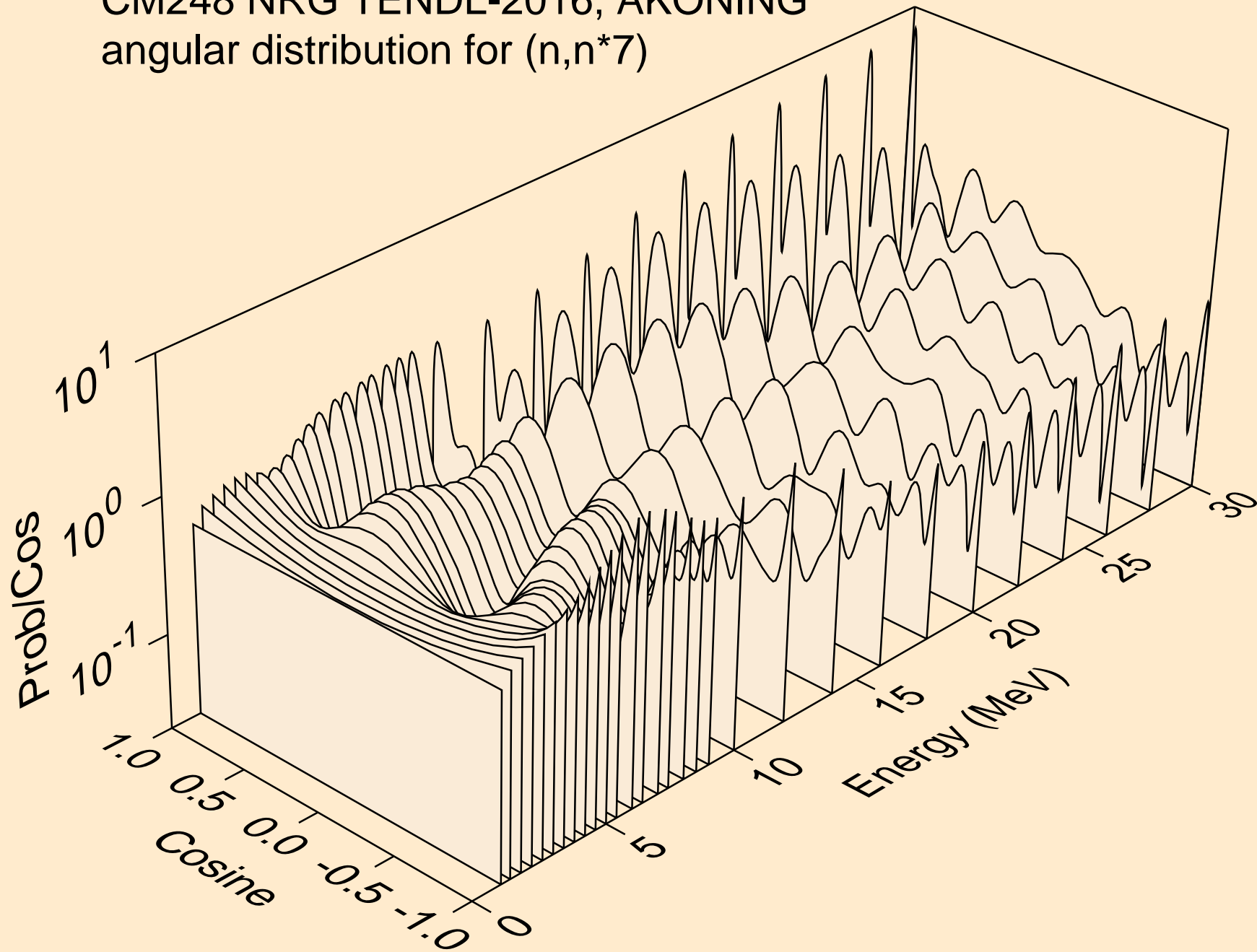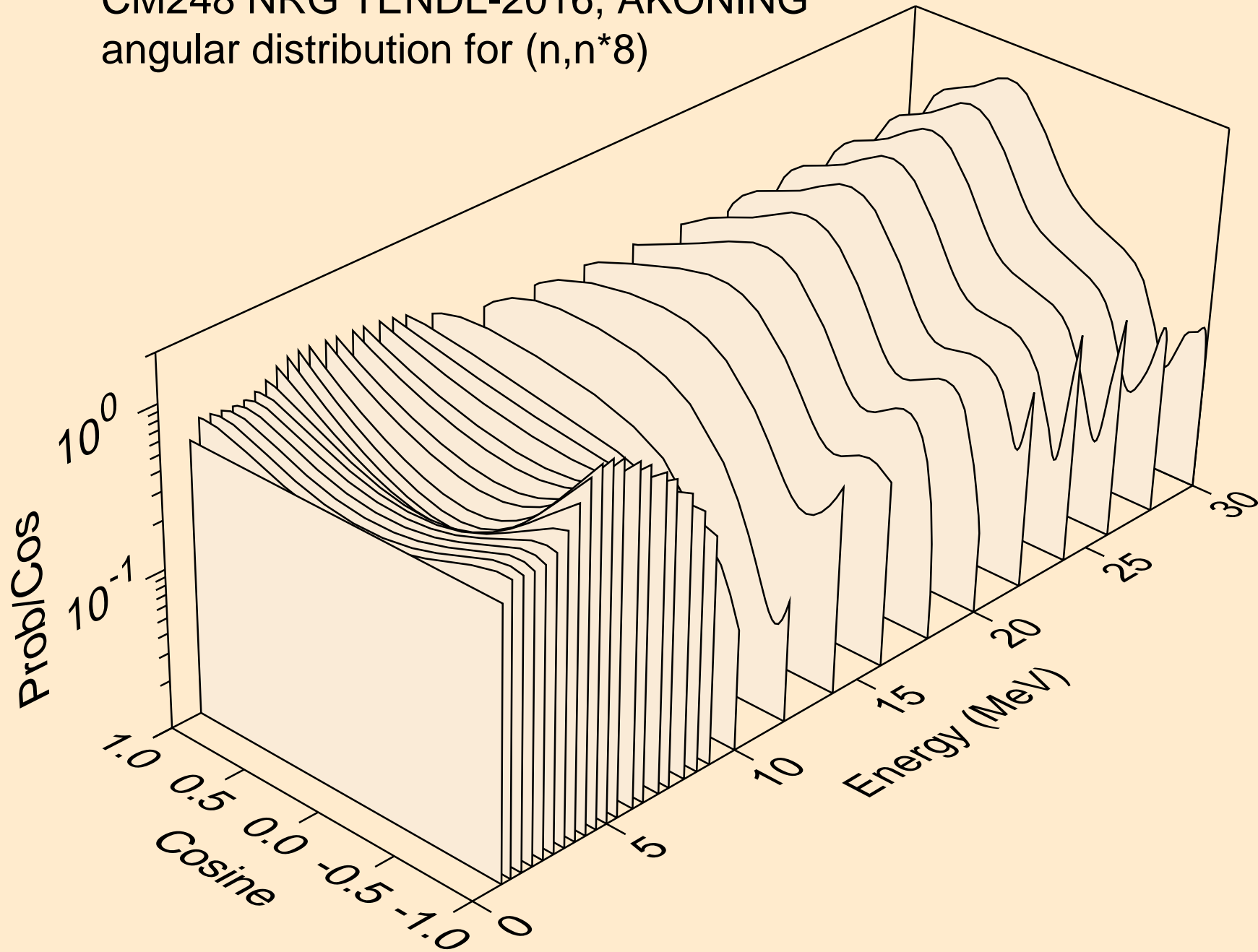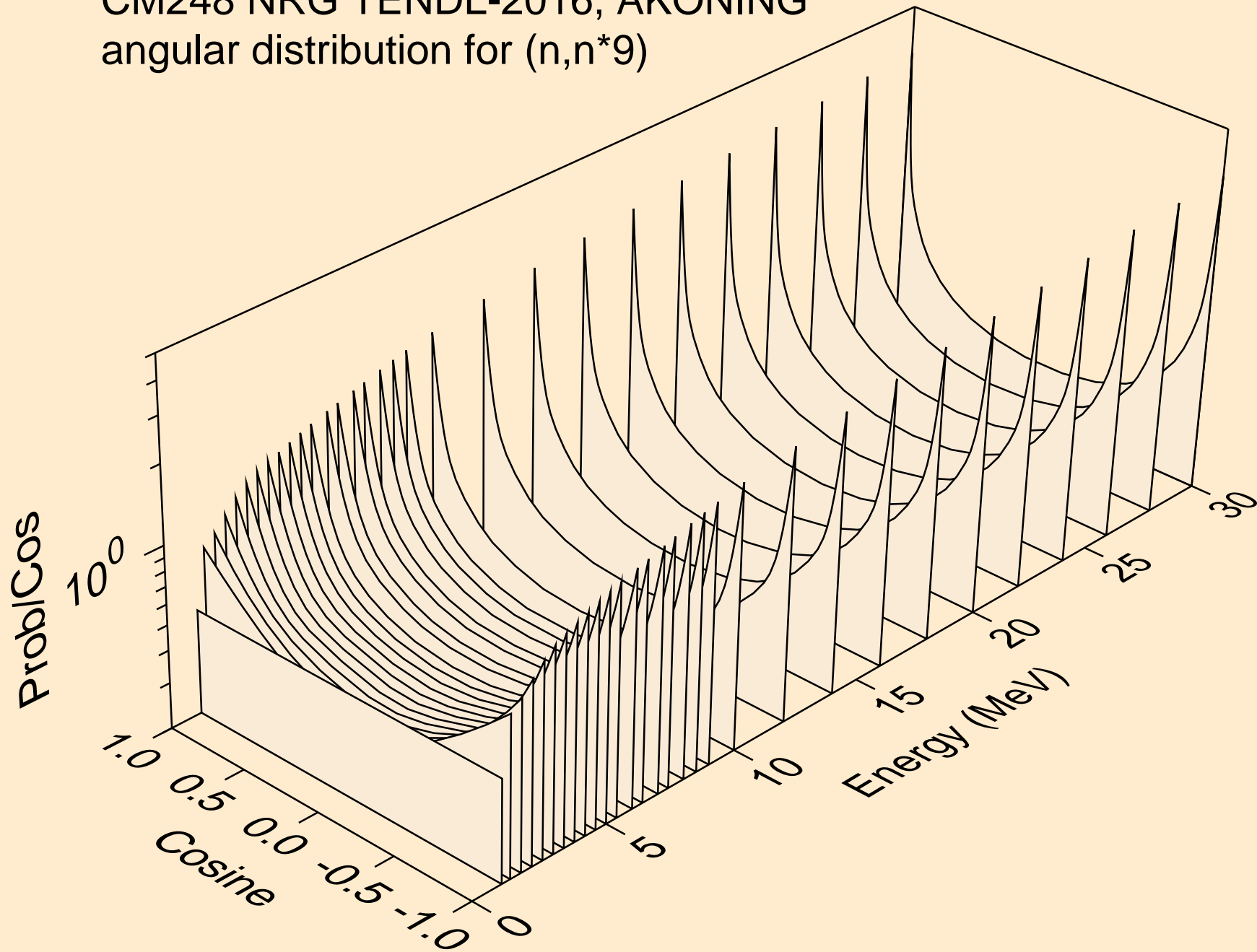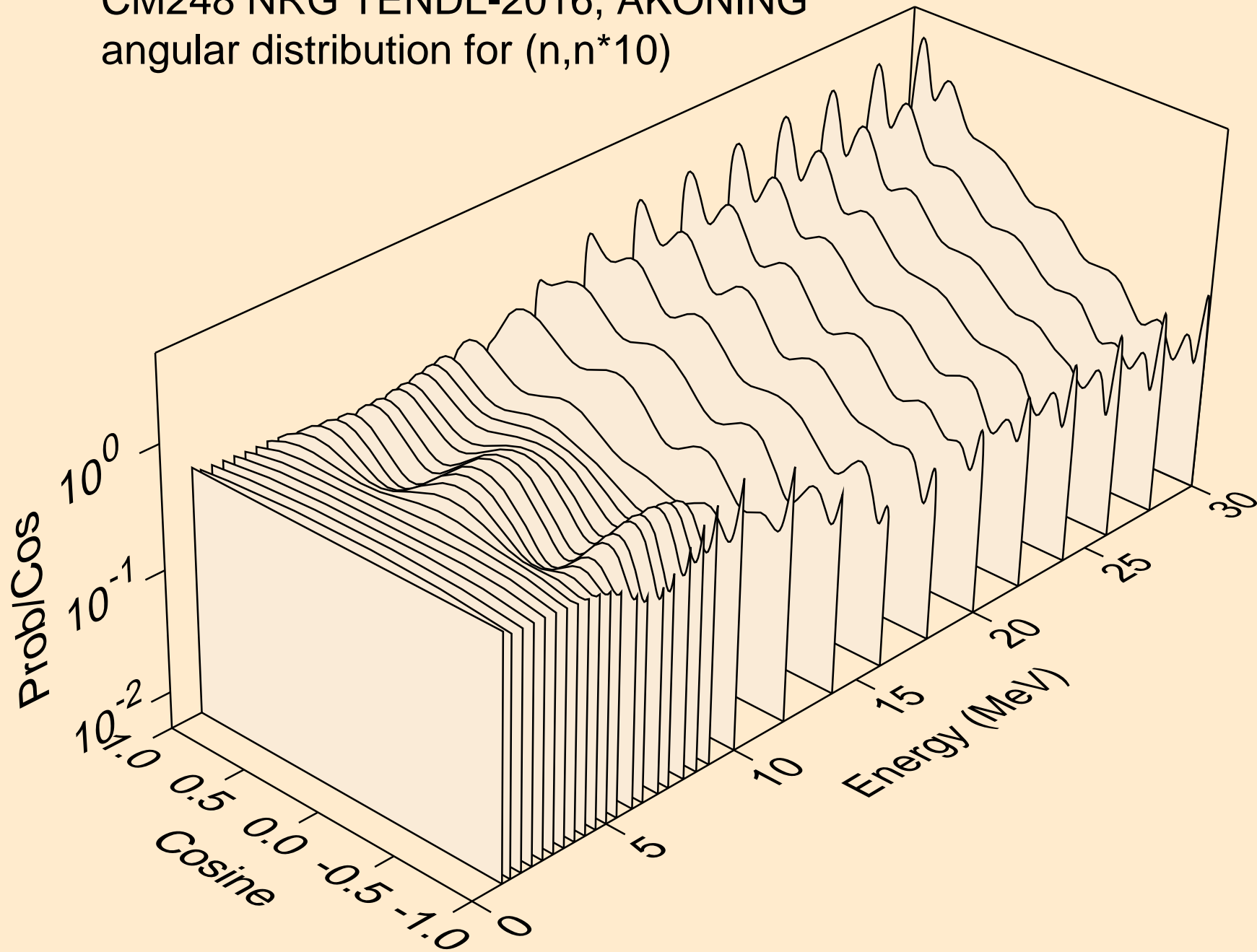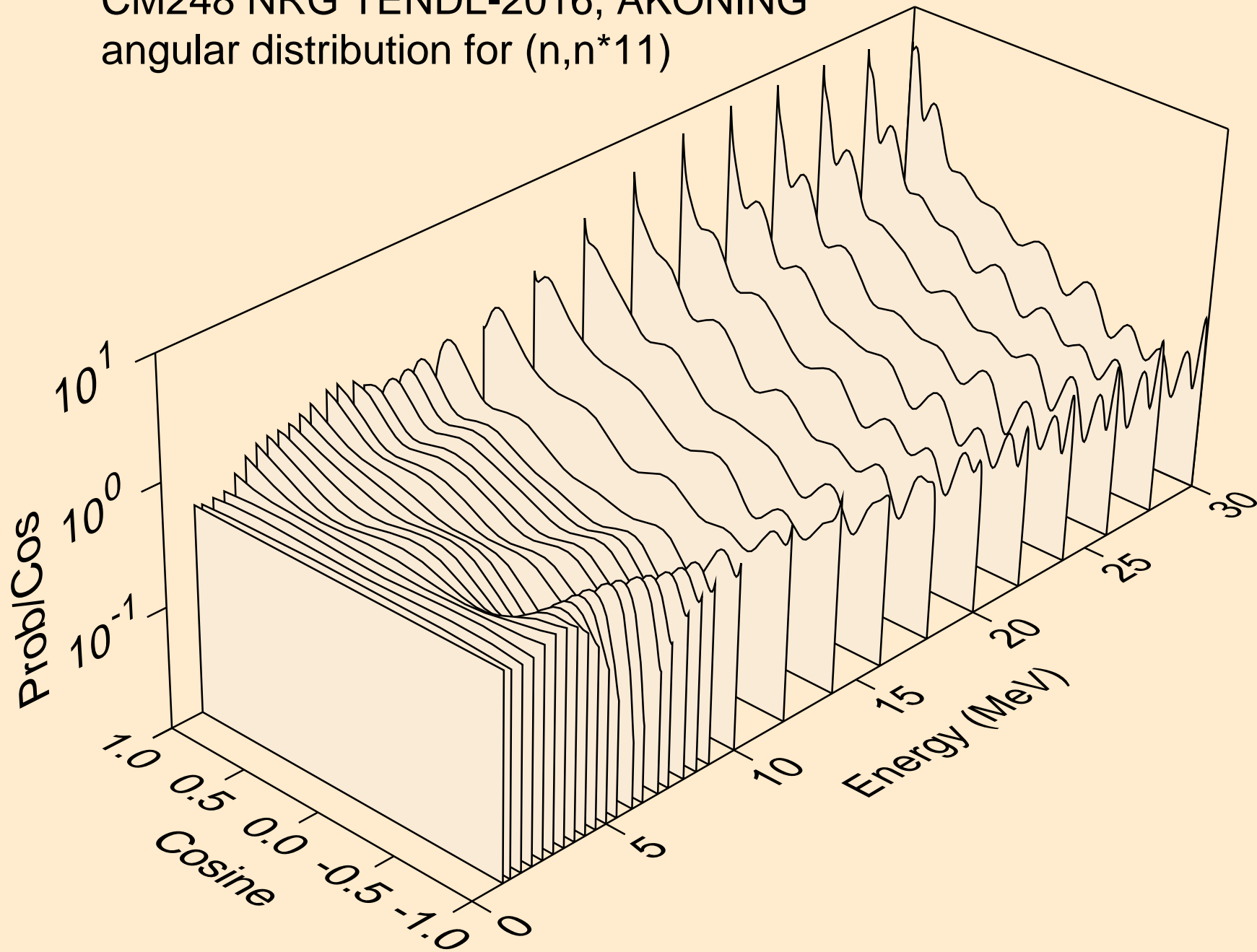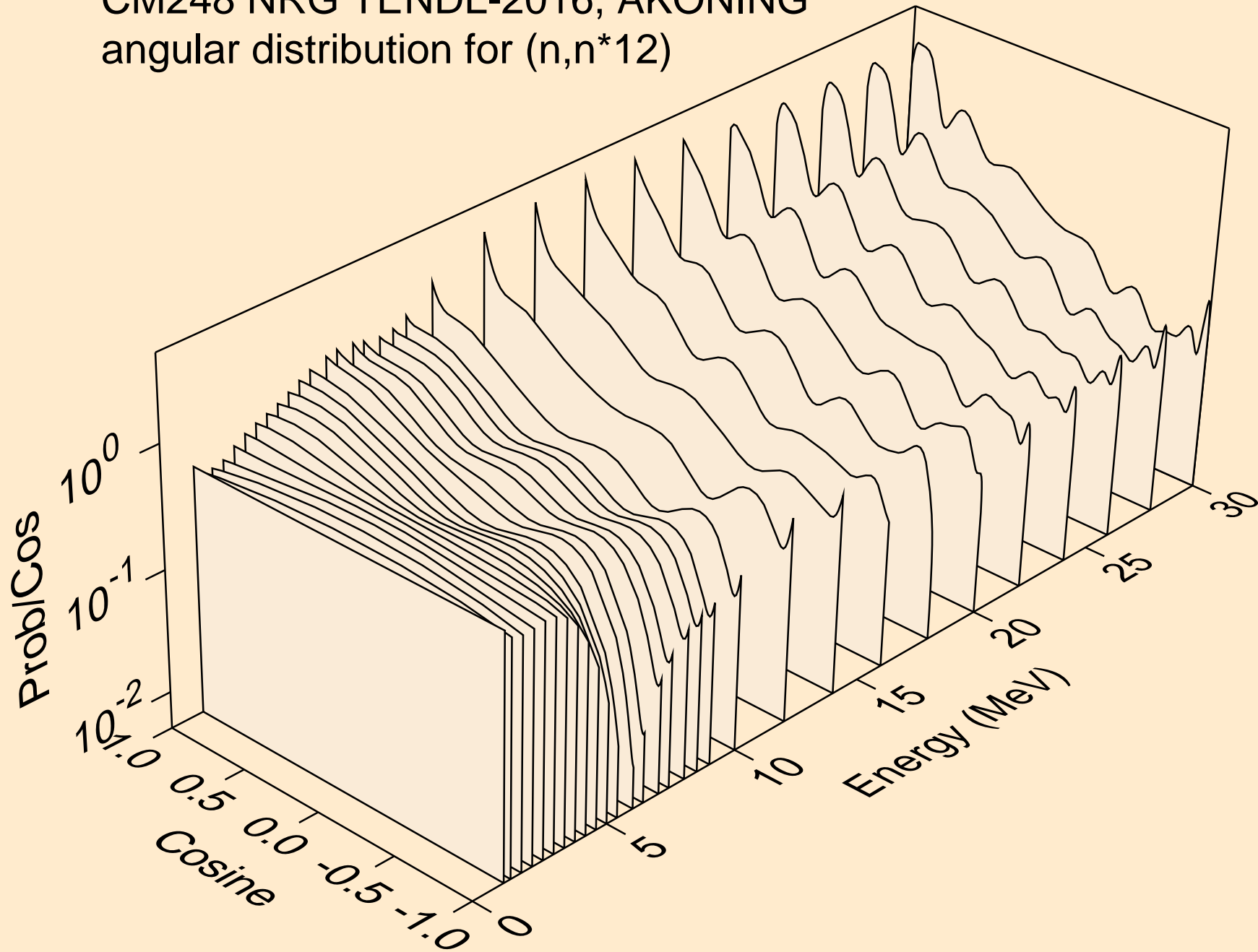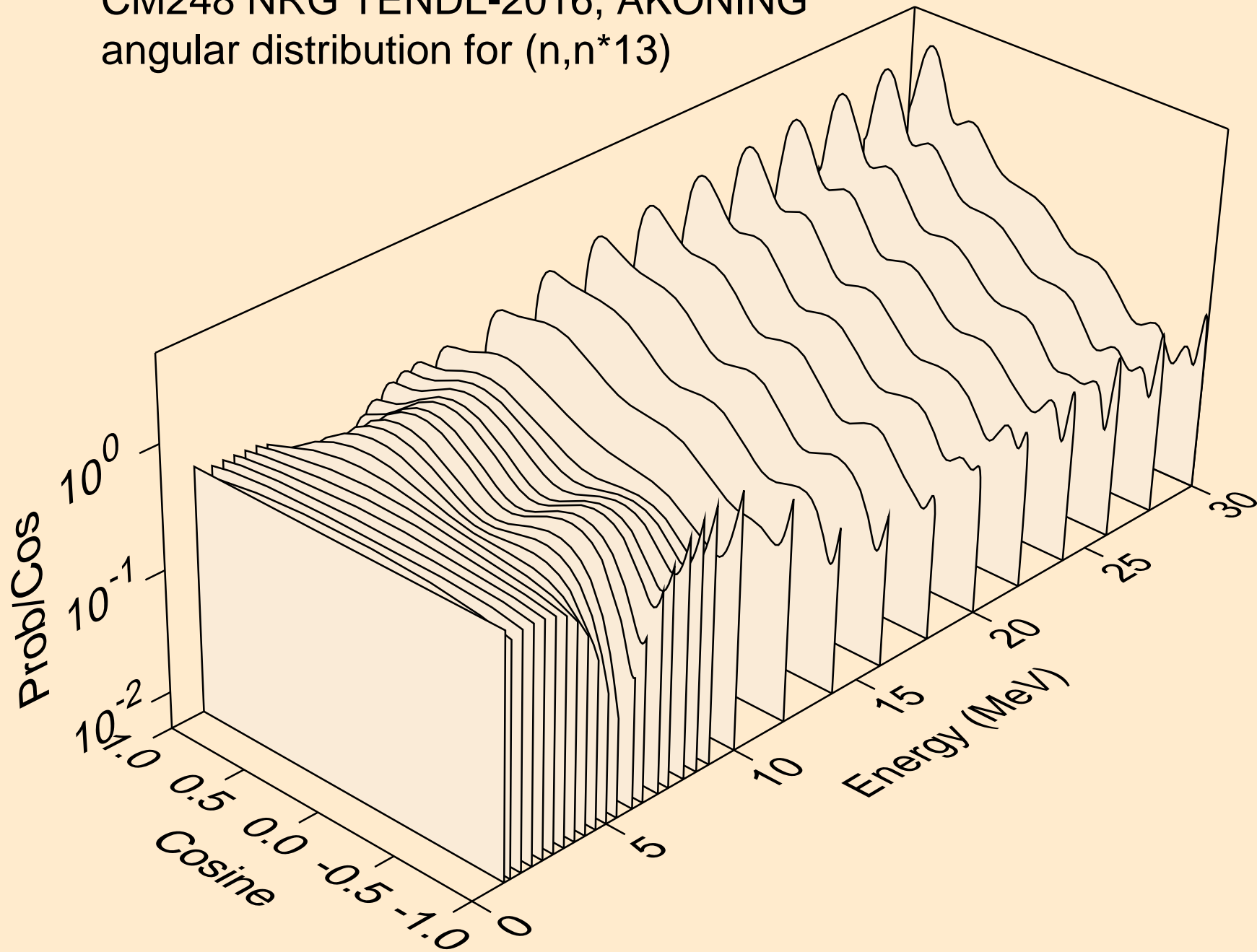angular distribution for elastic

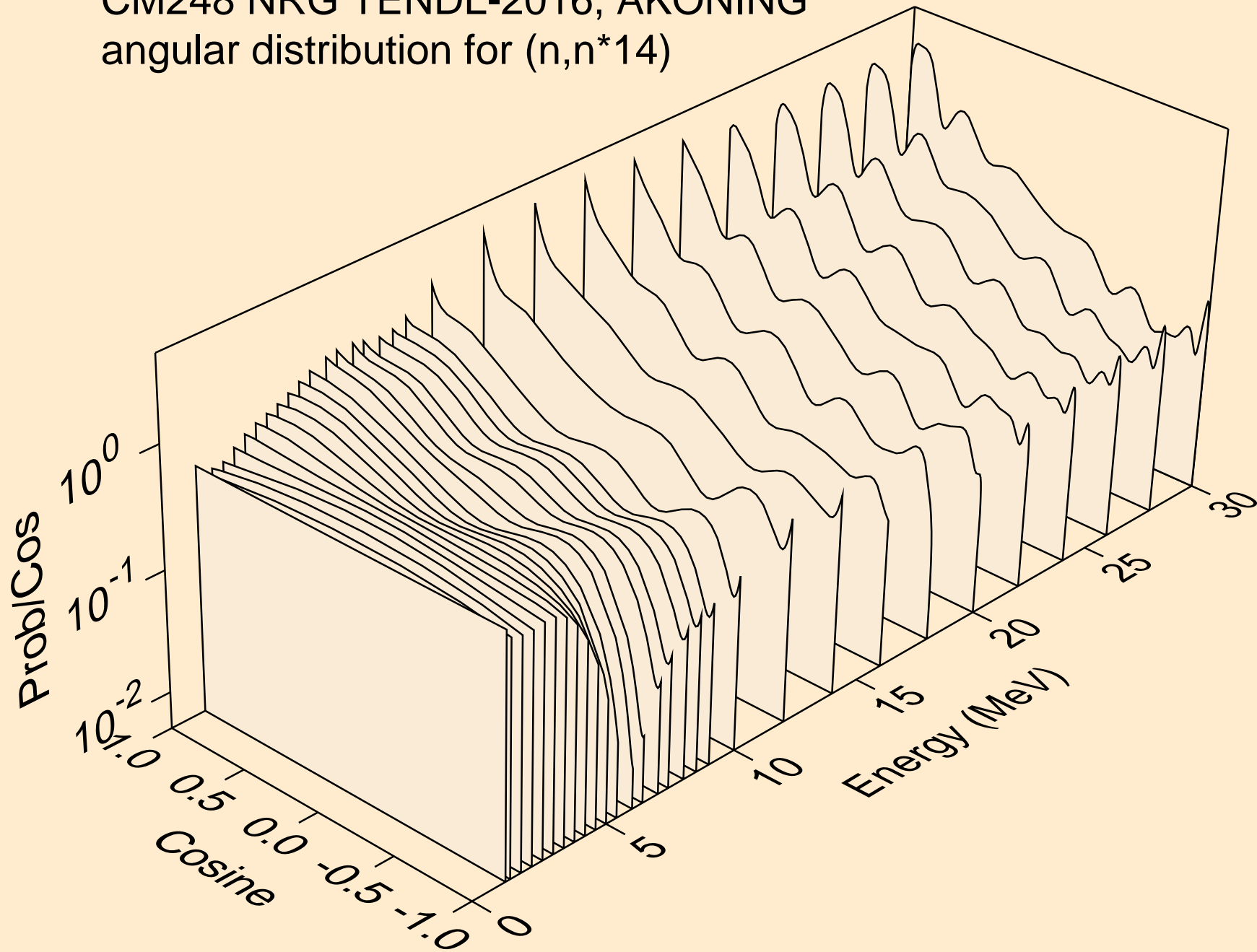CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*1)

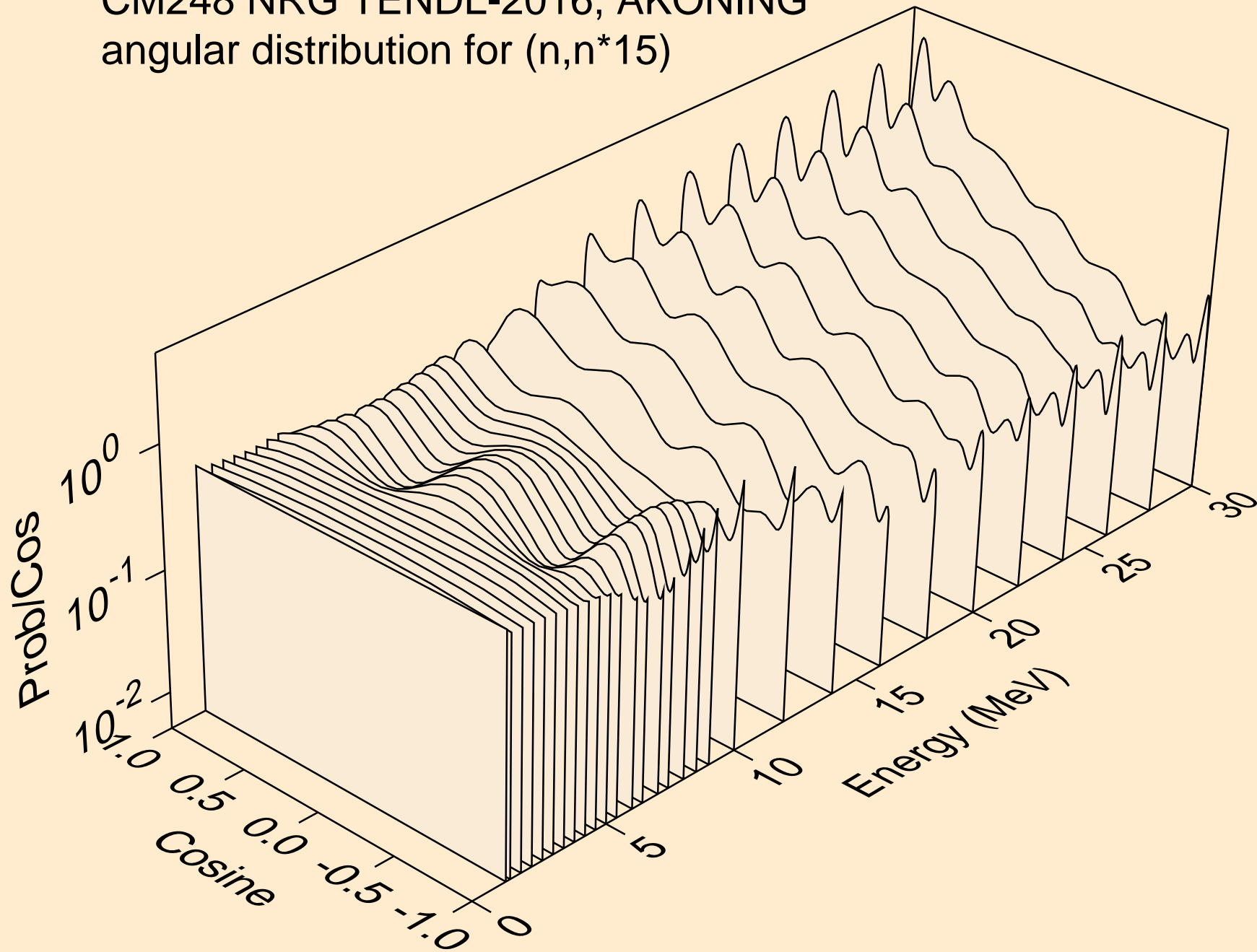CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*2)

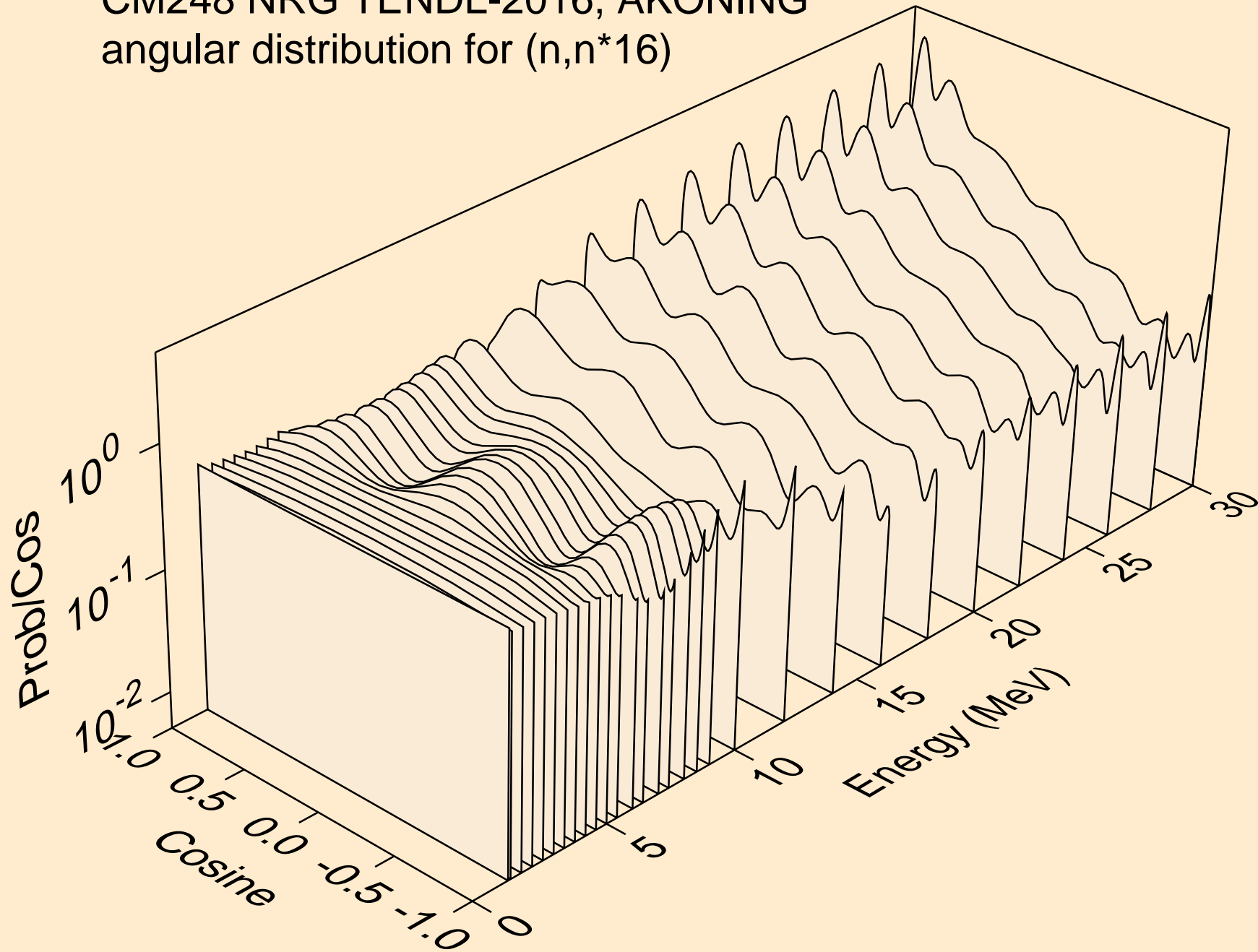CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*3)

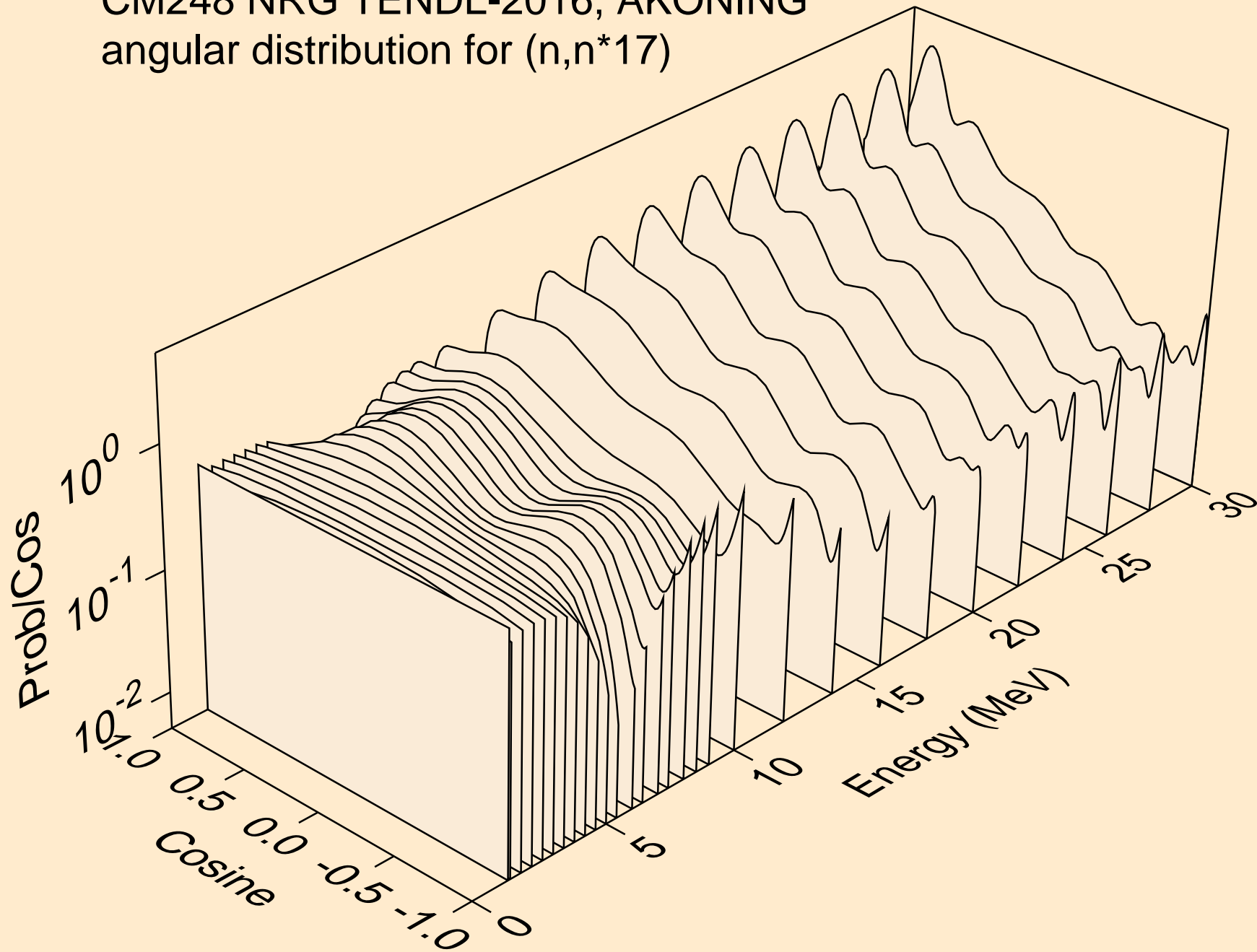CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*4)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*5)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*6)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*7)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*8)

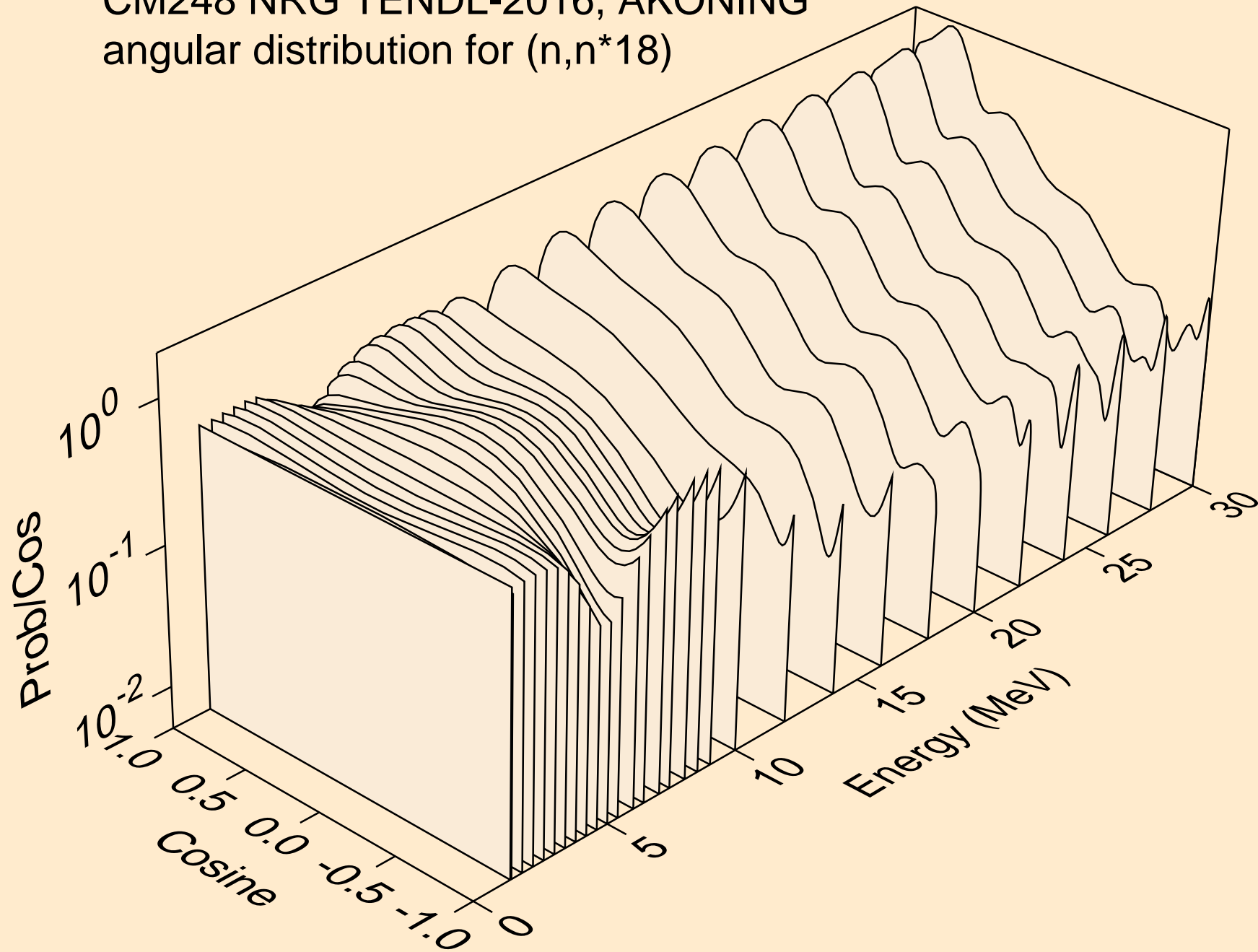CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*9)
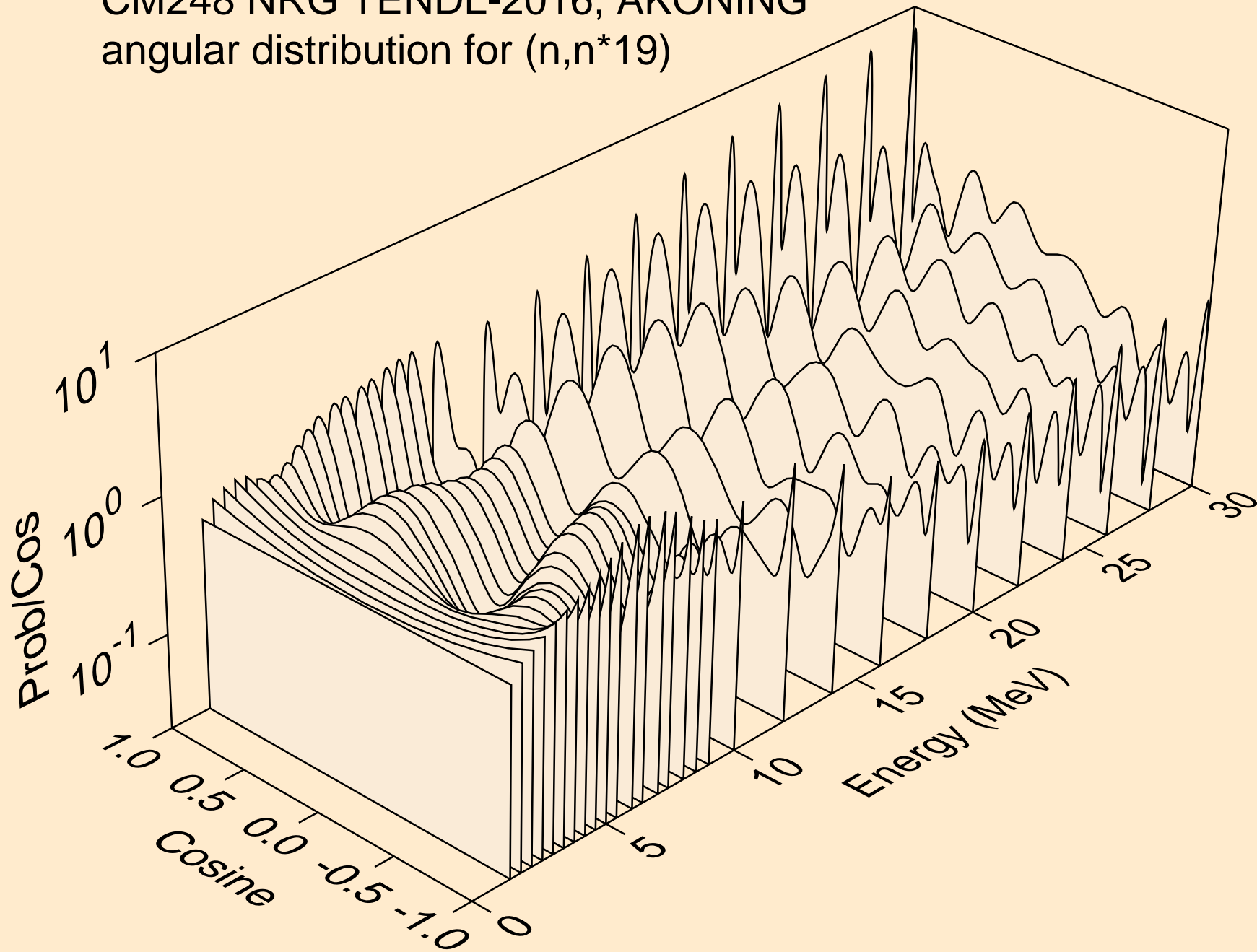
CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*10)
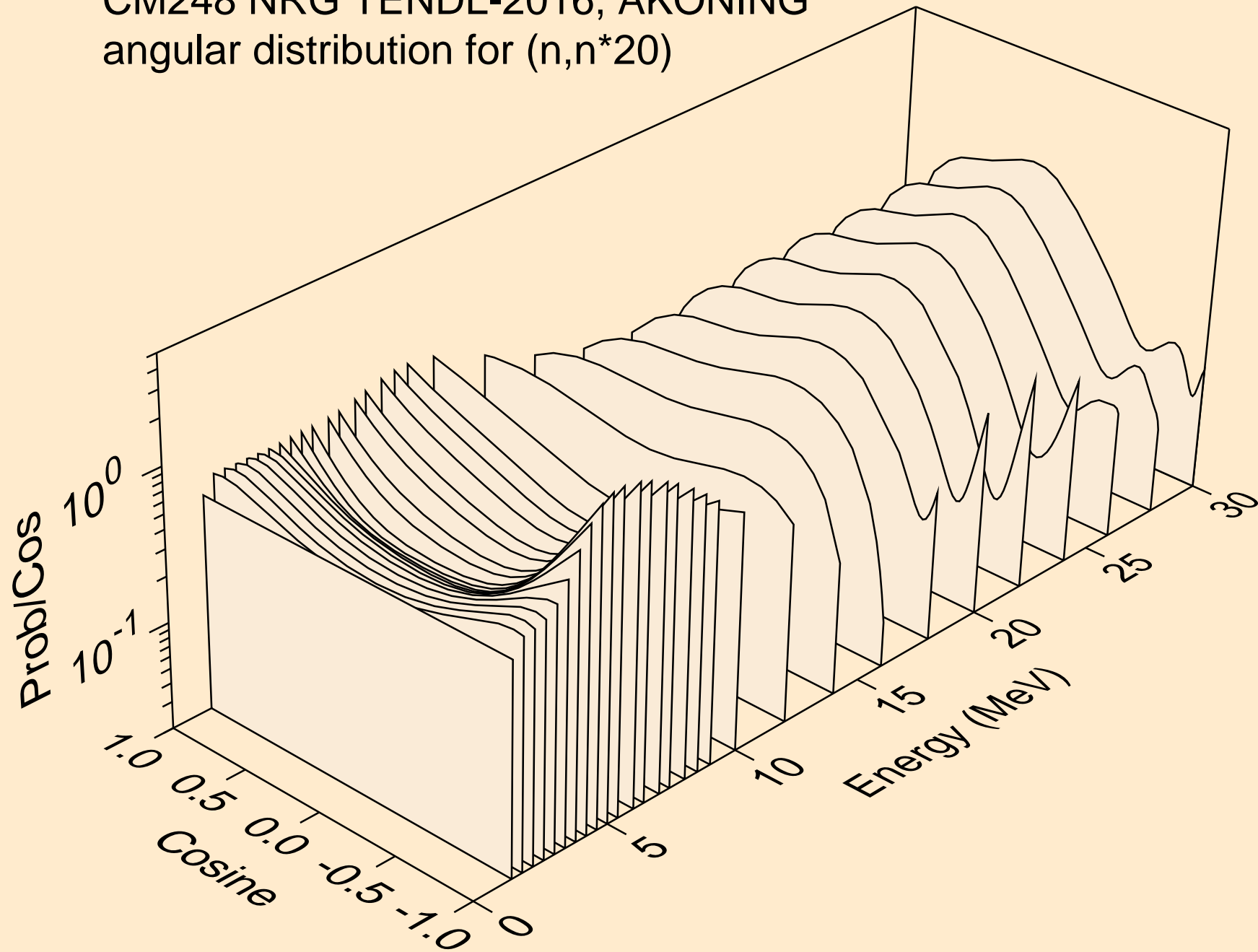
CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*11)

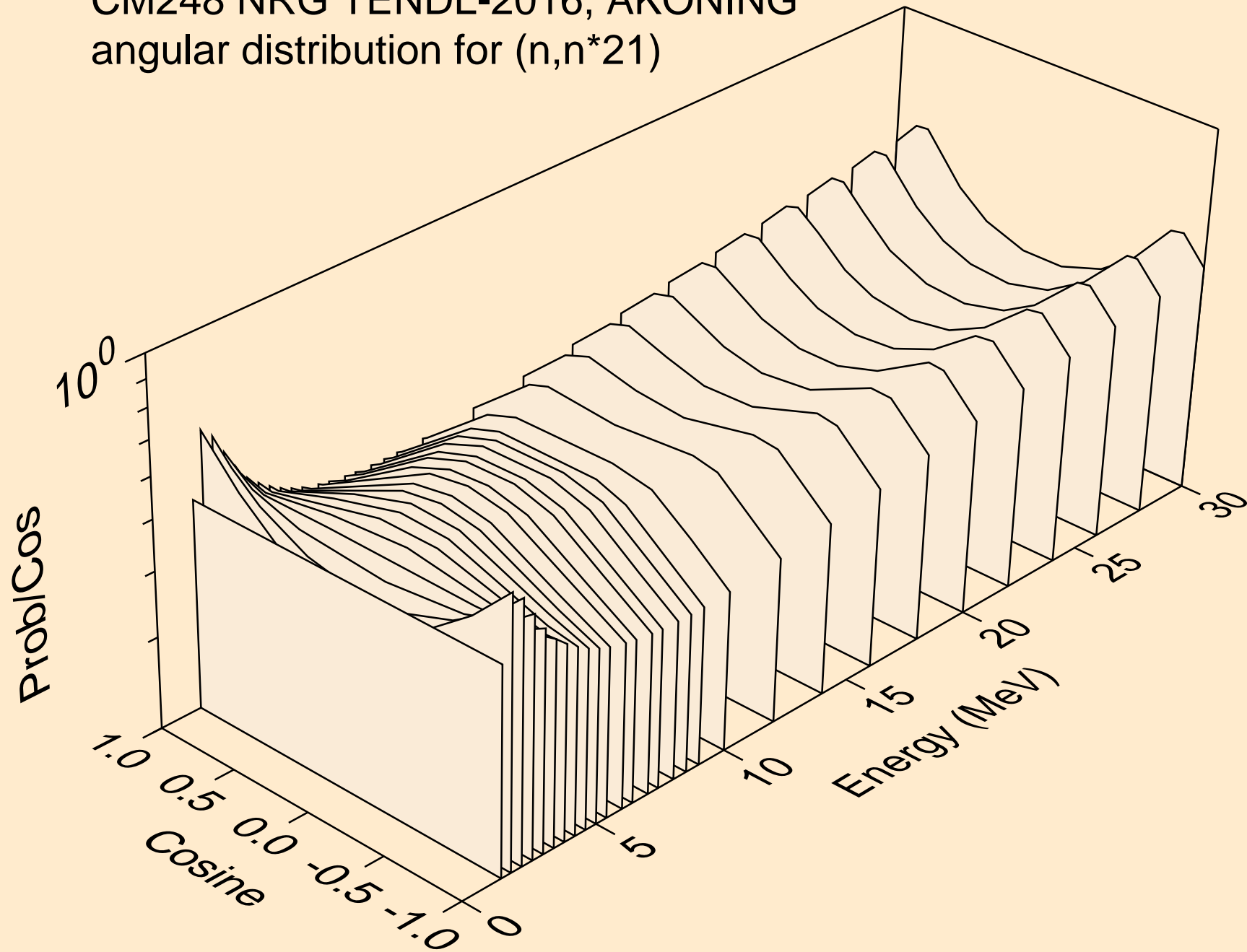CM248 NRG TENDL-2016, AKONING
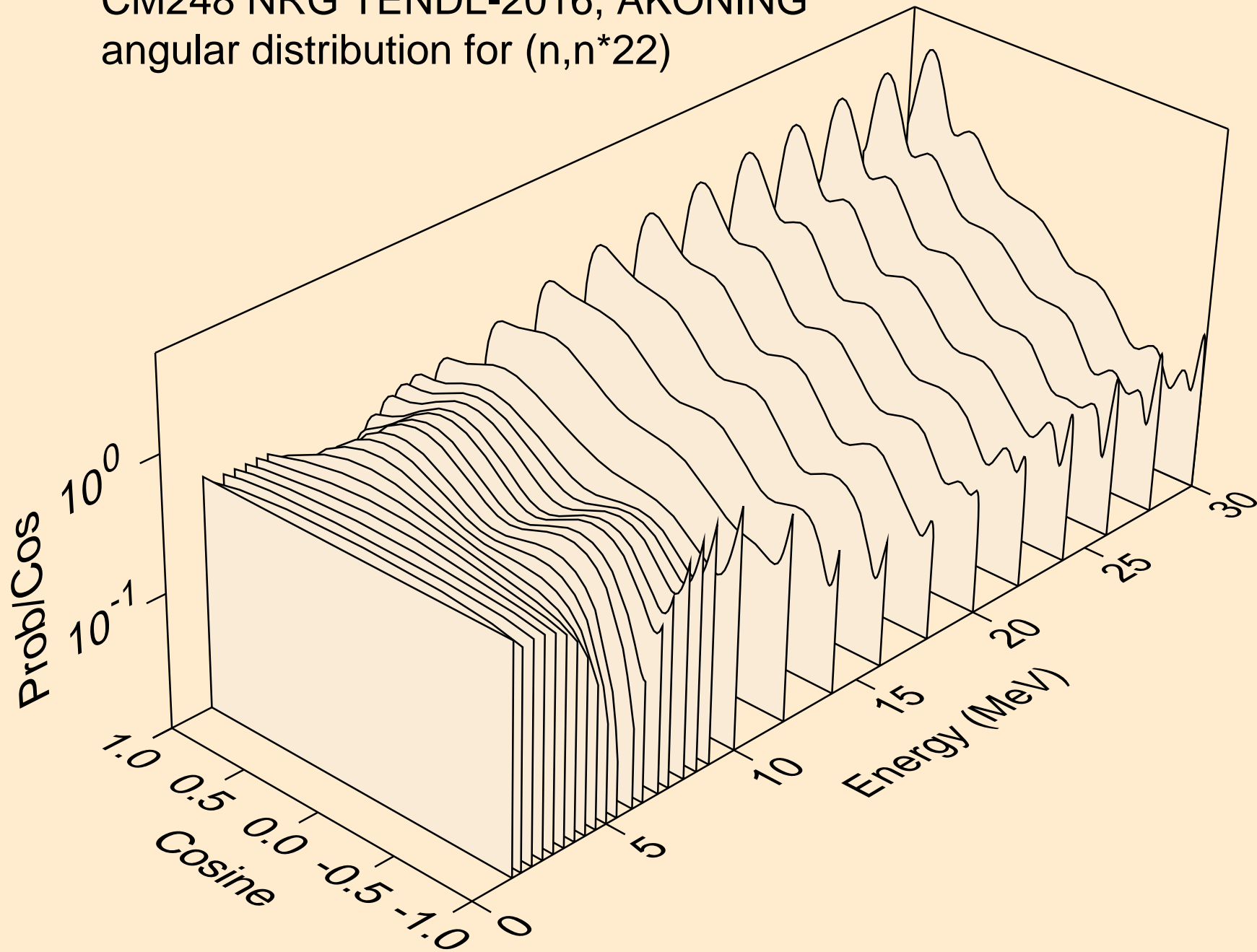angular distribution for (n,n*12)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*13)
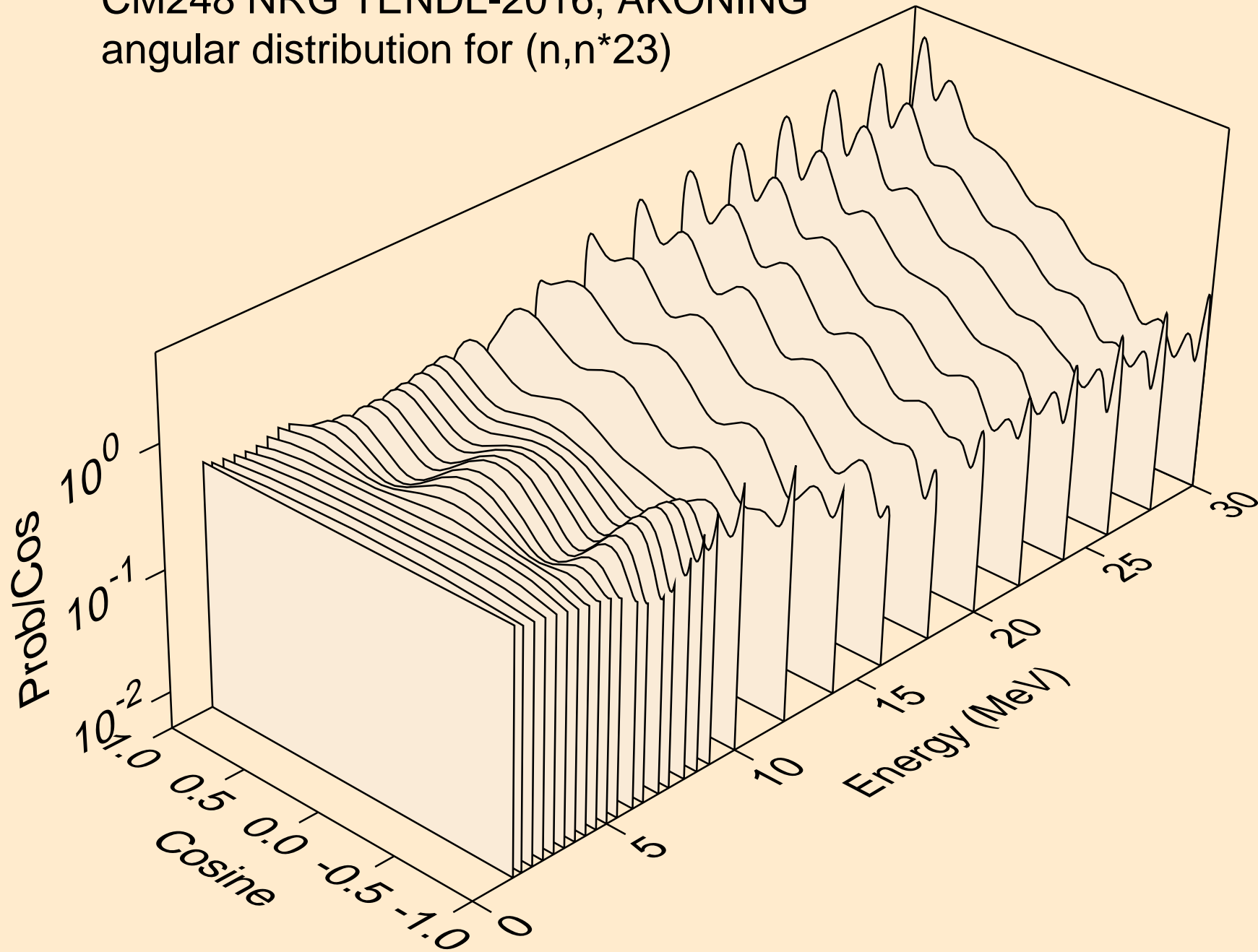
CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*14)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*15)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*16)

CM248 NRG TENDL-2016, AKONING
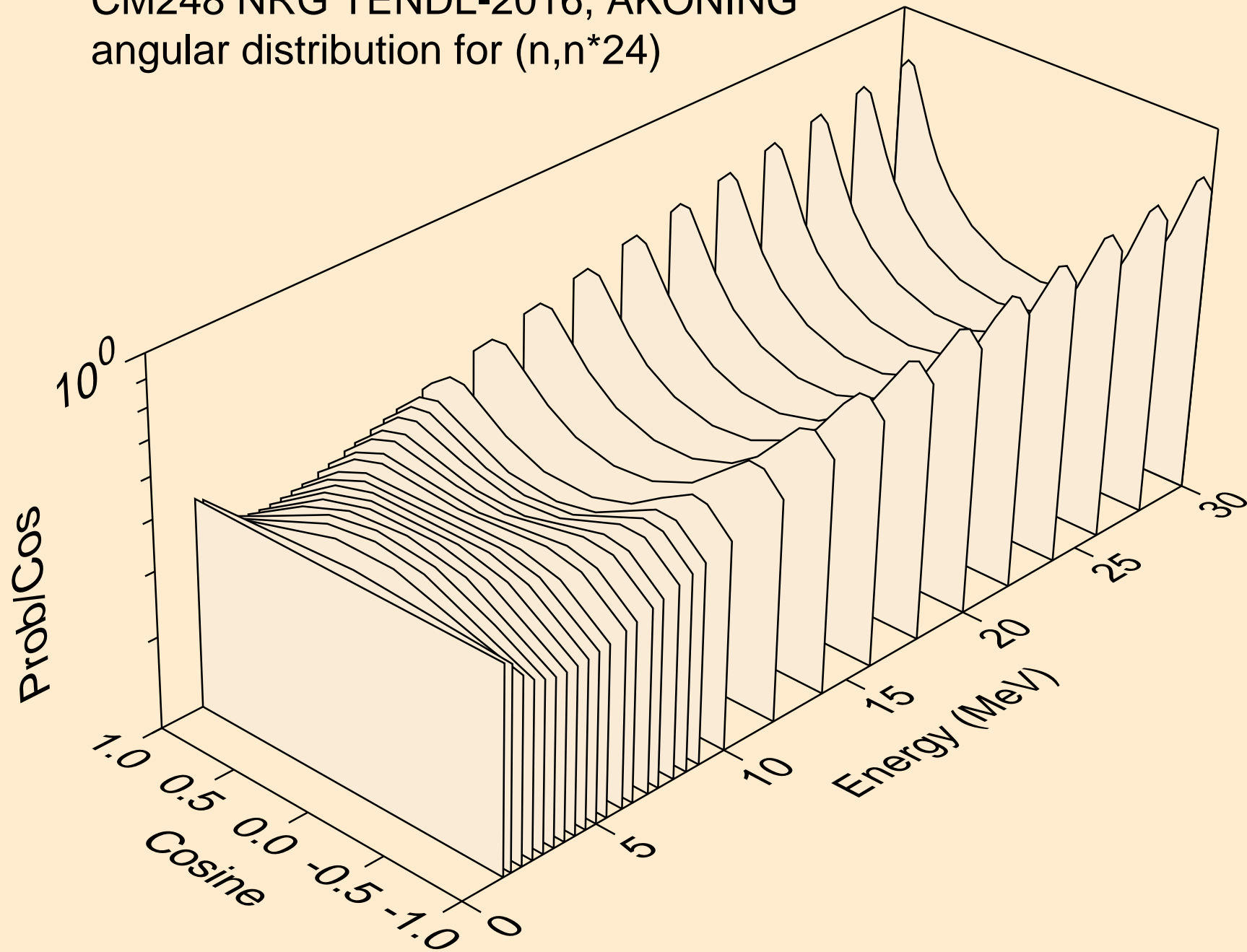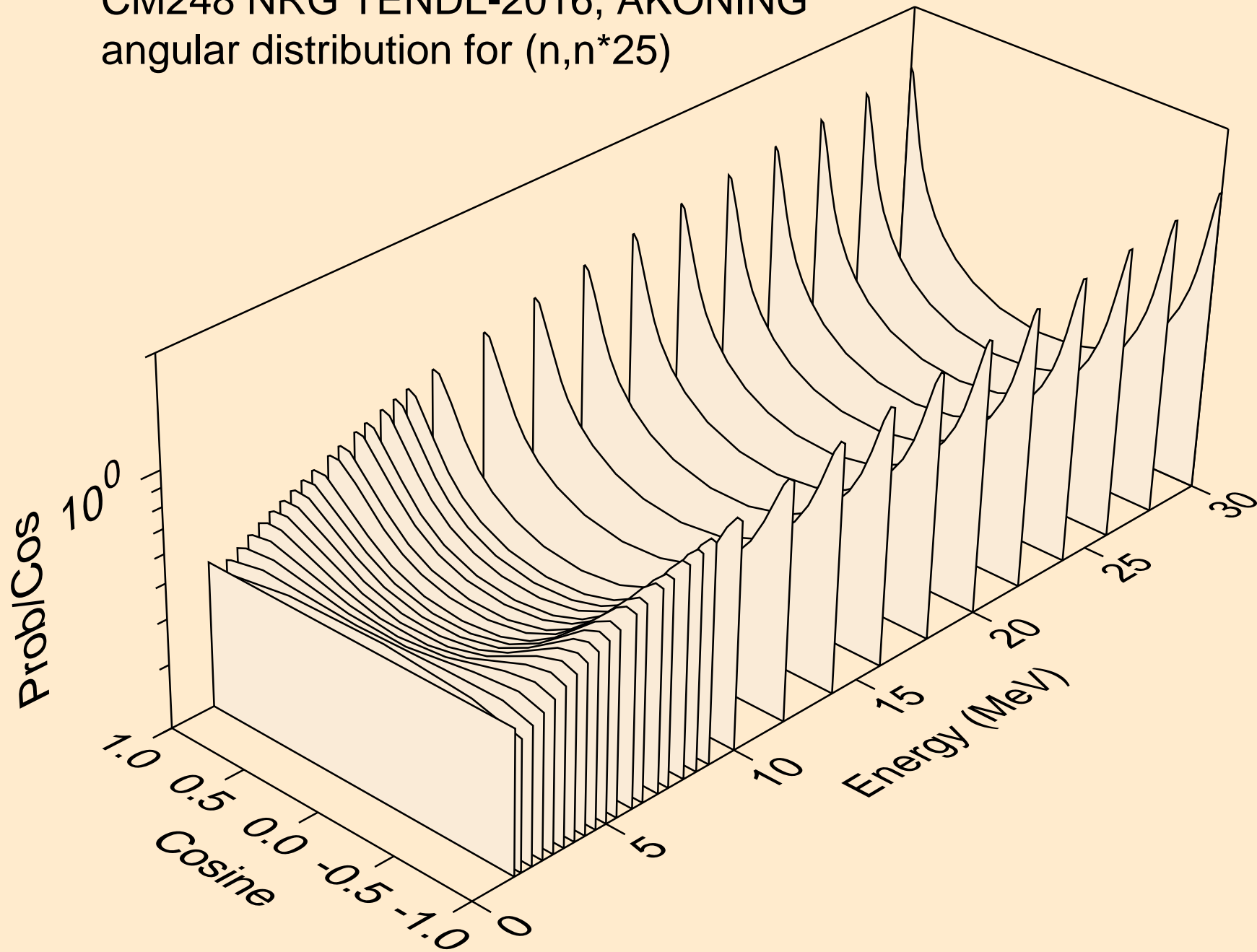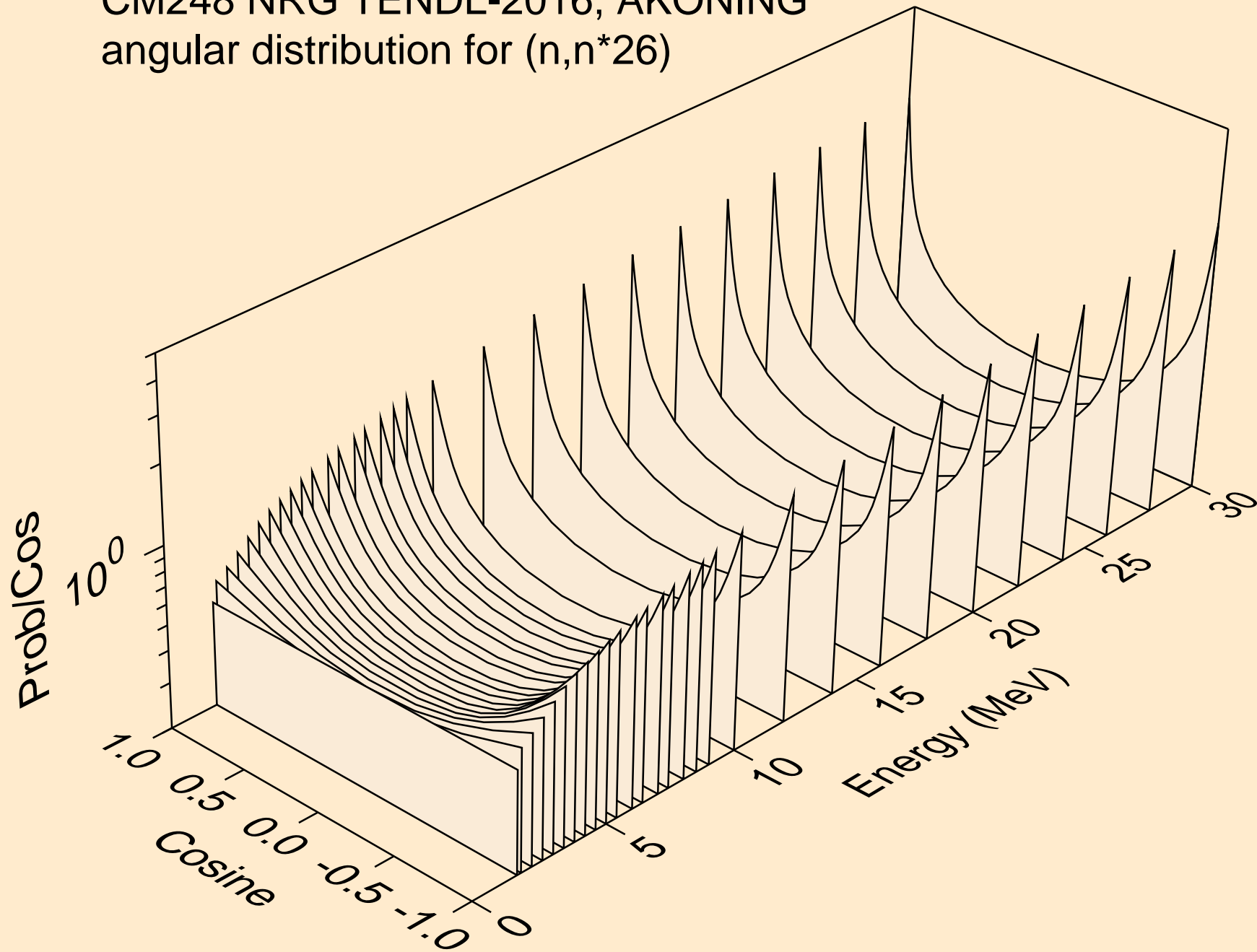angular distribution for (n,n*17)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*18)

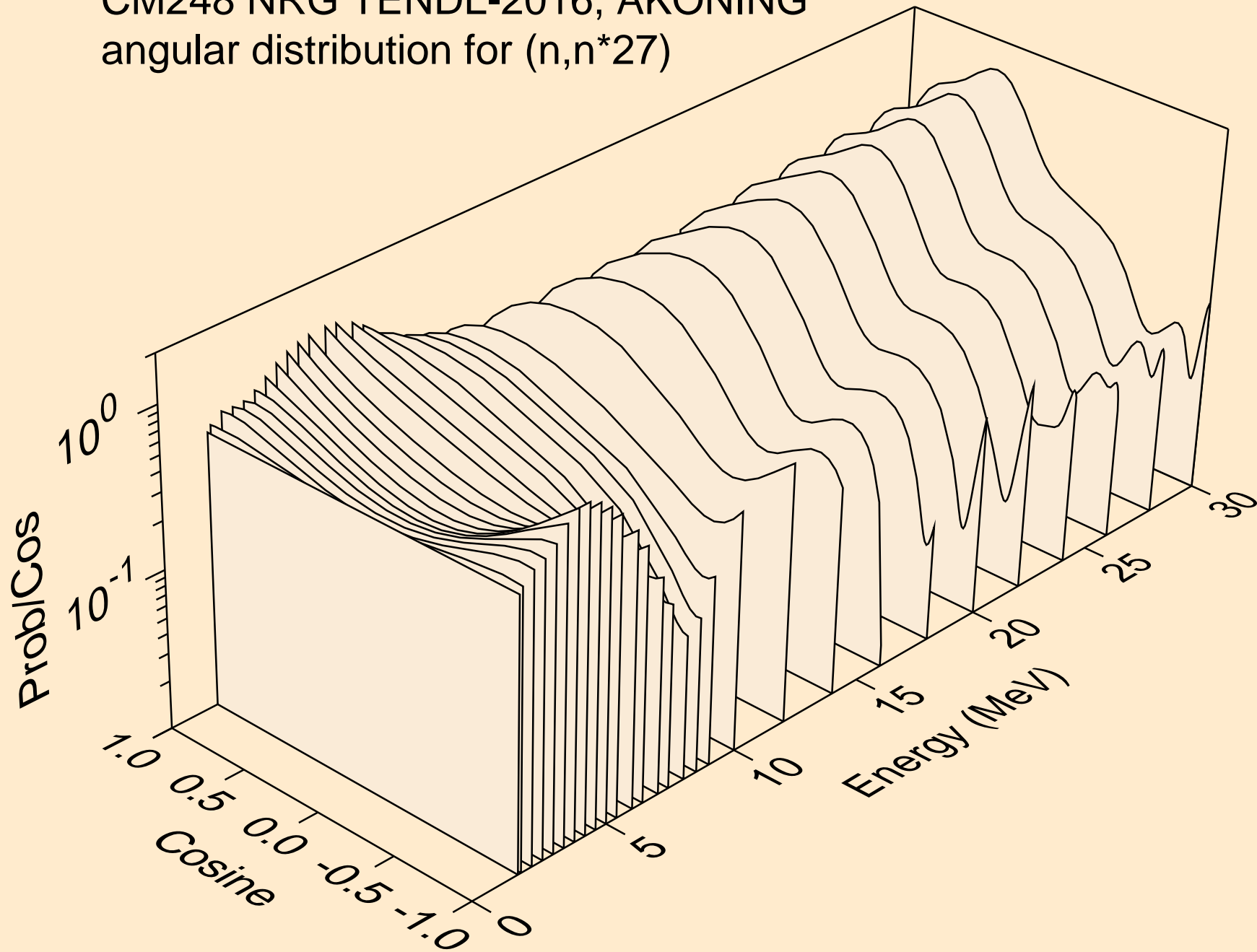CM248 NRG TENDL-2016, AKONING
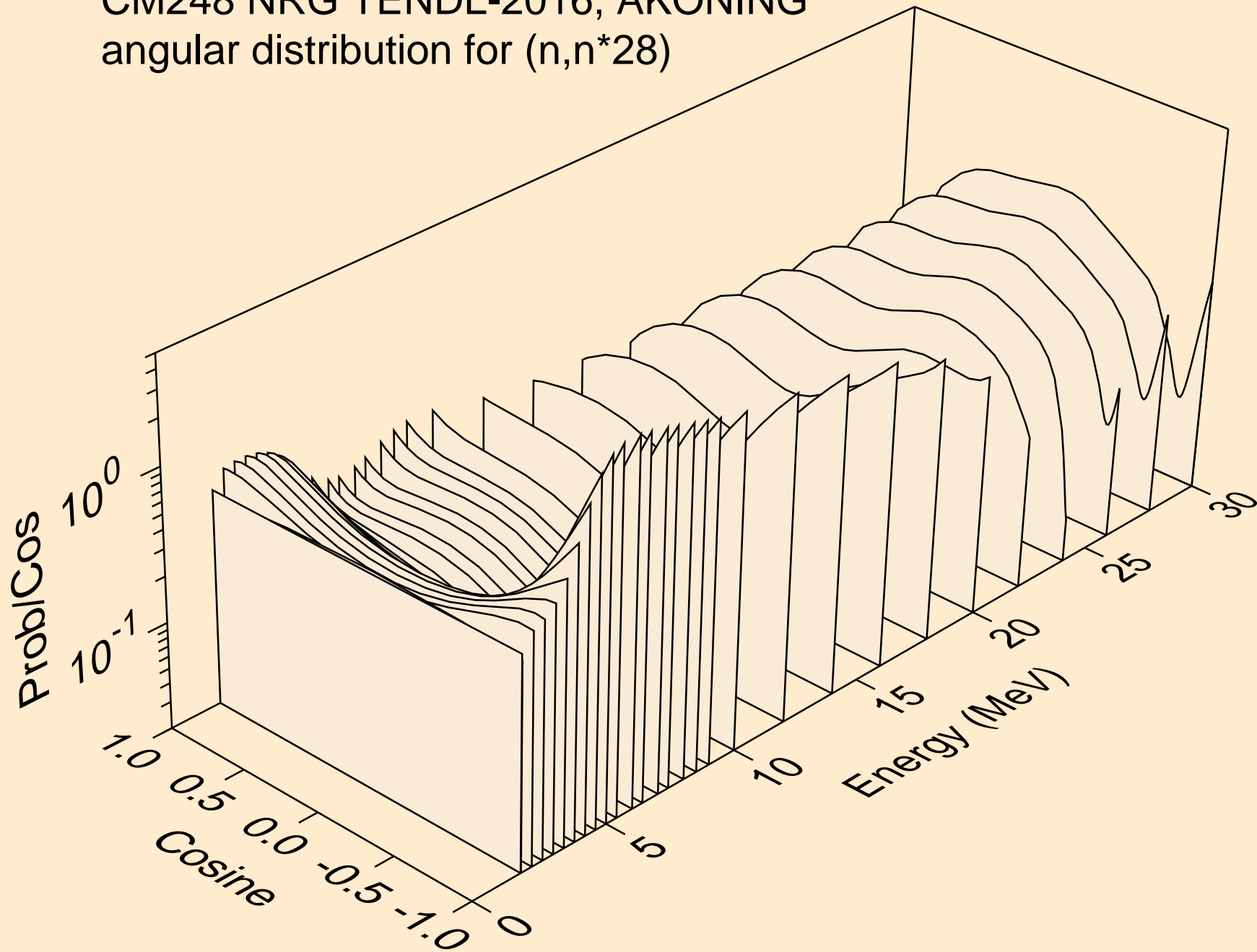angular distribution for (n,n*19)
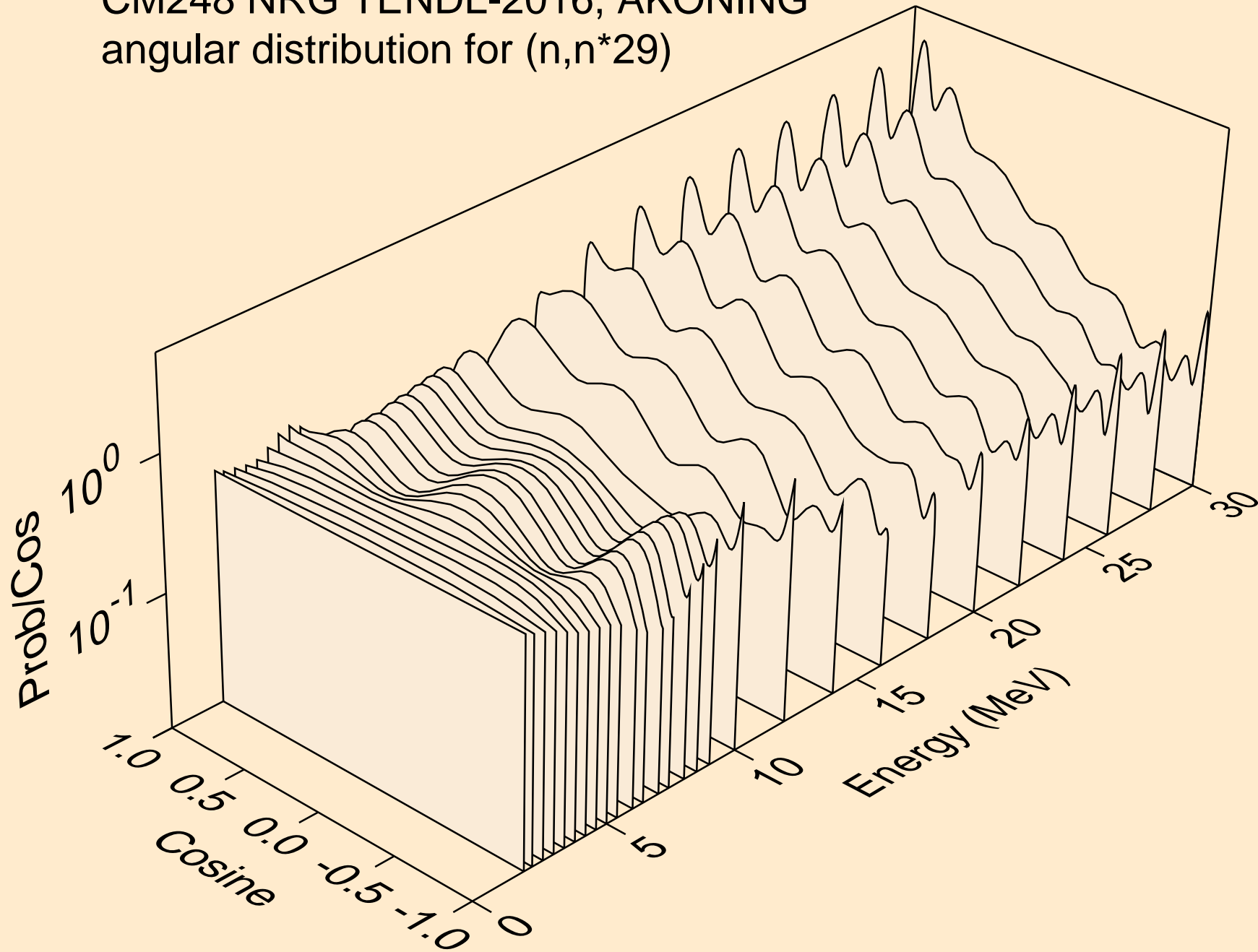
CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*20)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*21)

CM248 NRG TENDL-2016, AKONING
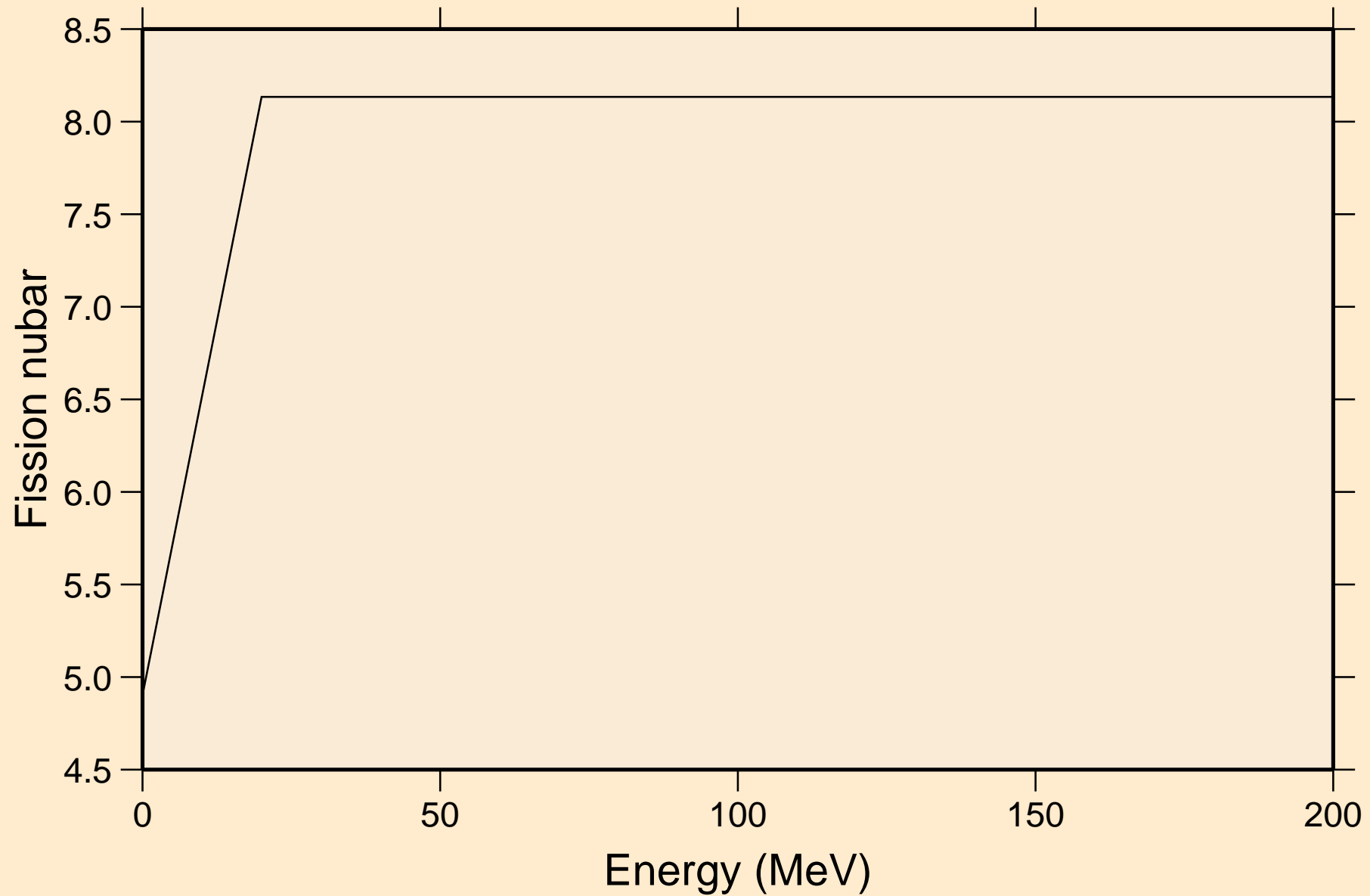angular distribution for (n,n*22)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*23)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*24)

CM248 NRG TENDL-2016, AKONING
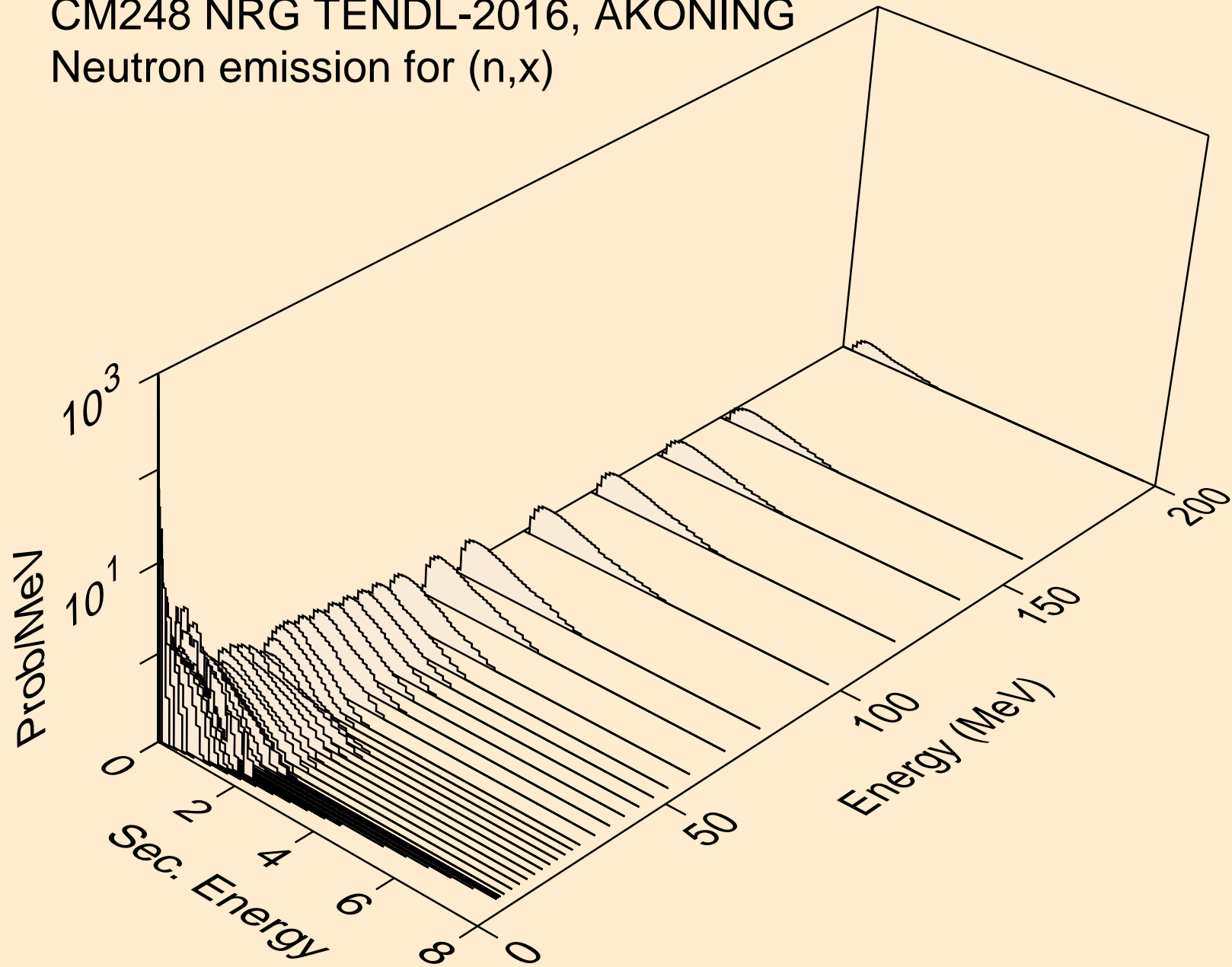angular distribution for (n,n*25)

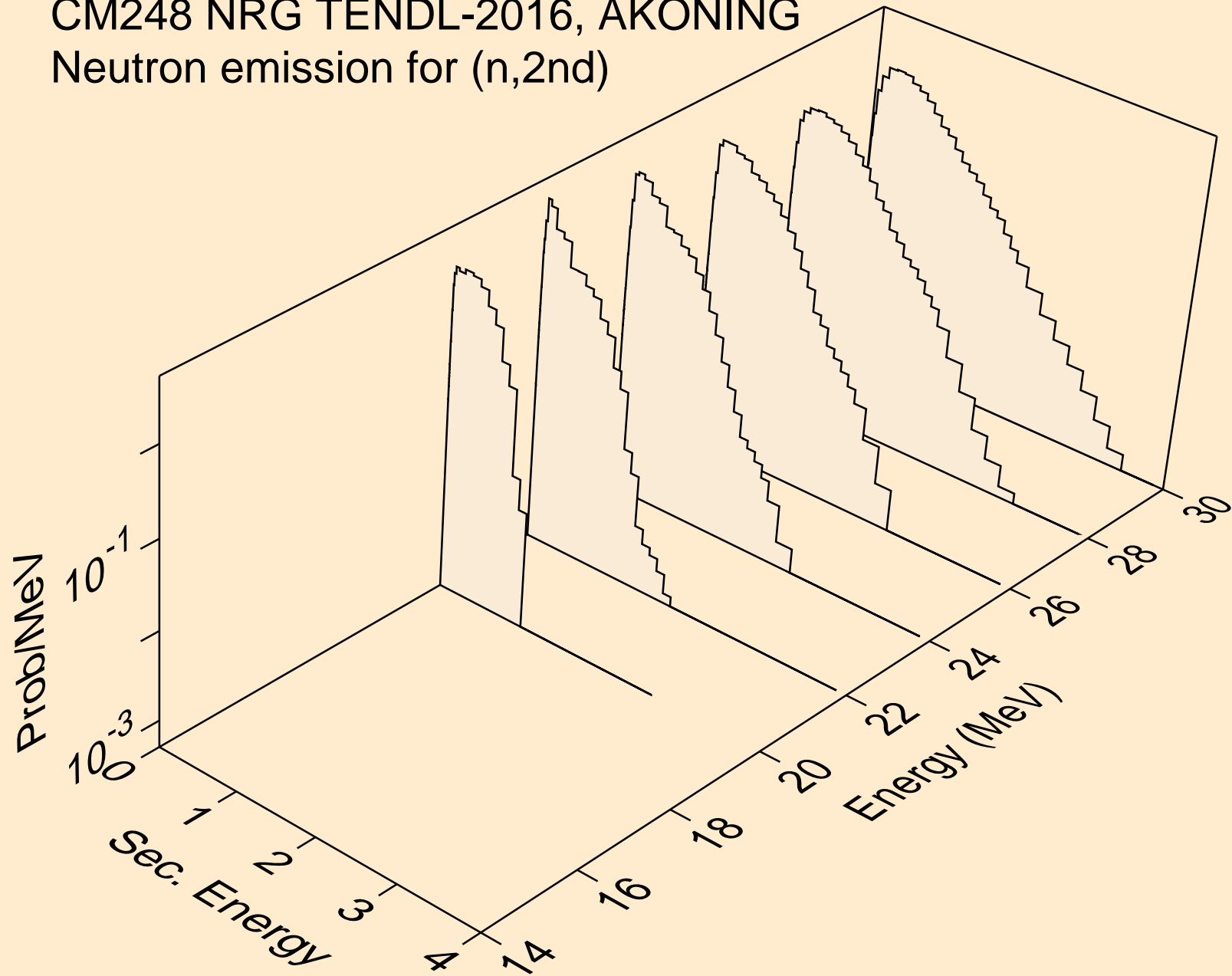CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*26)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*27)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*28)

CM248 NRG TENDL-2016, AKONING
angular distribution for (n,n*29)
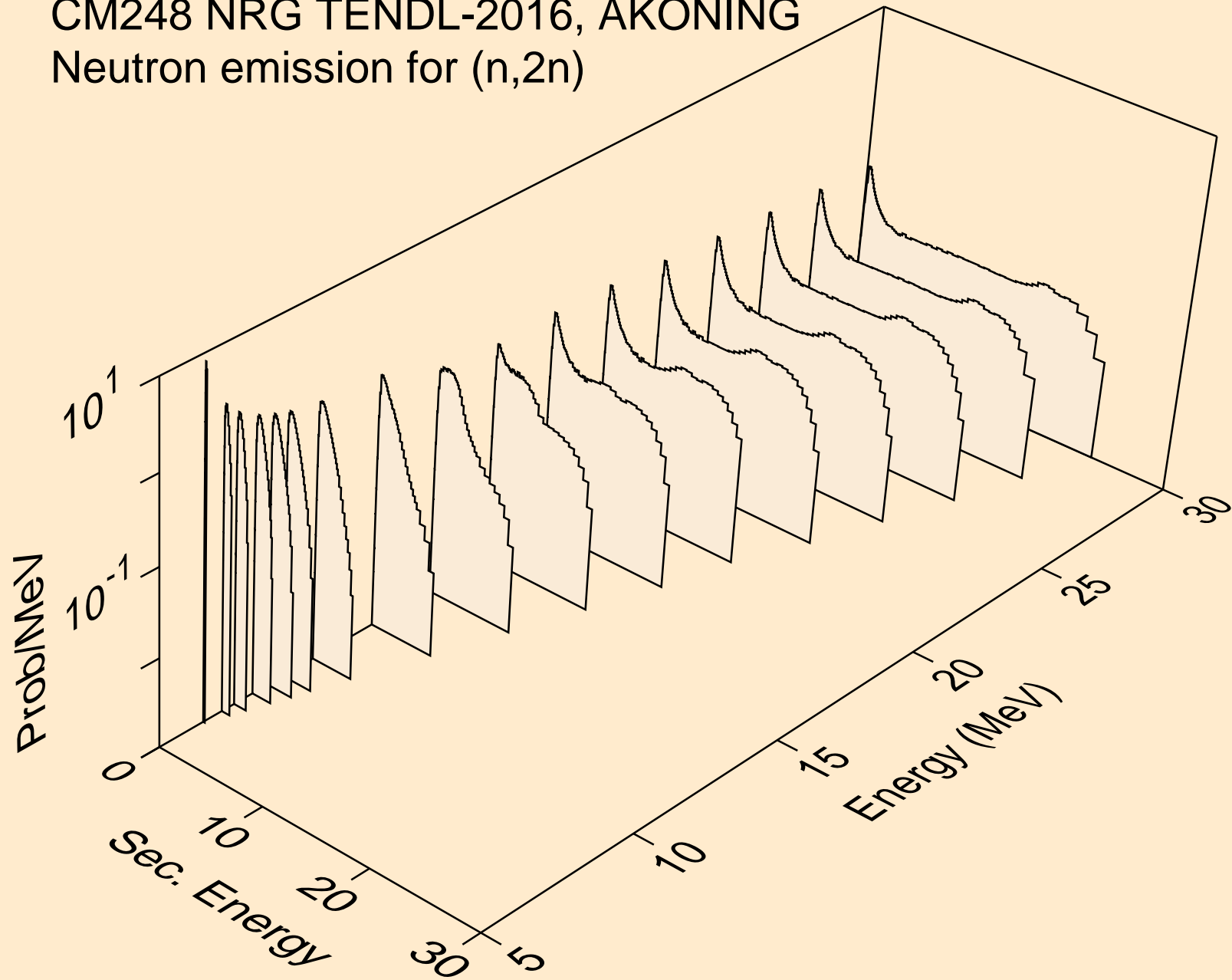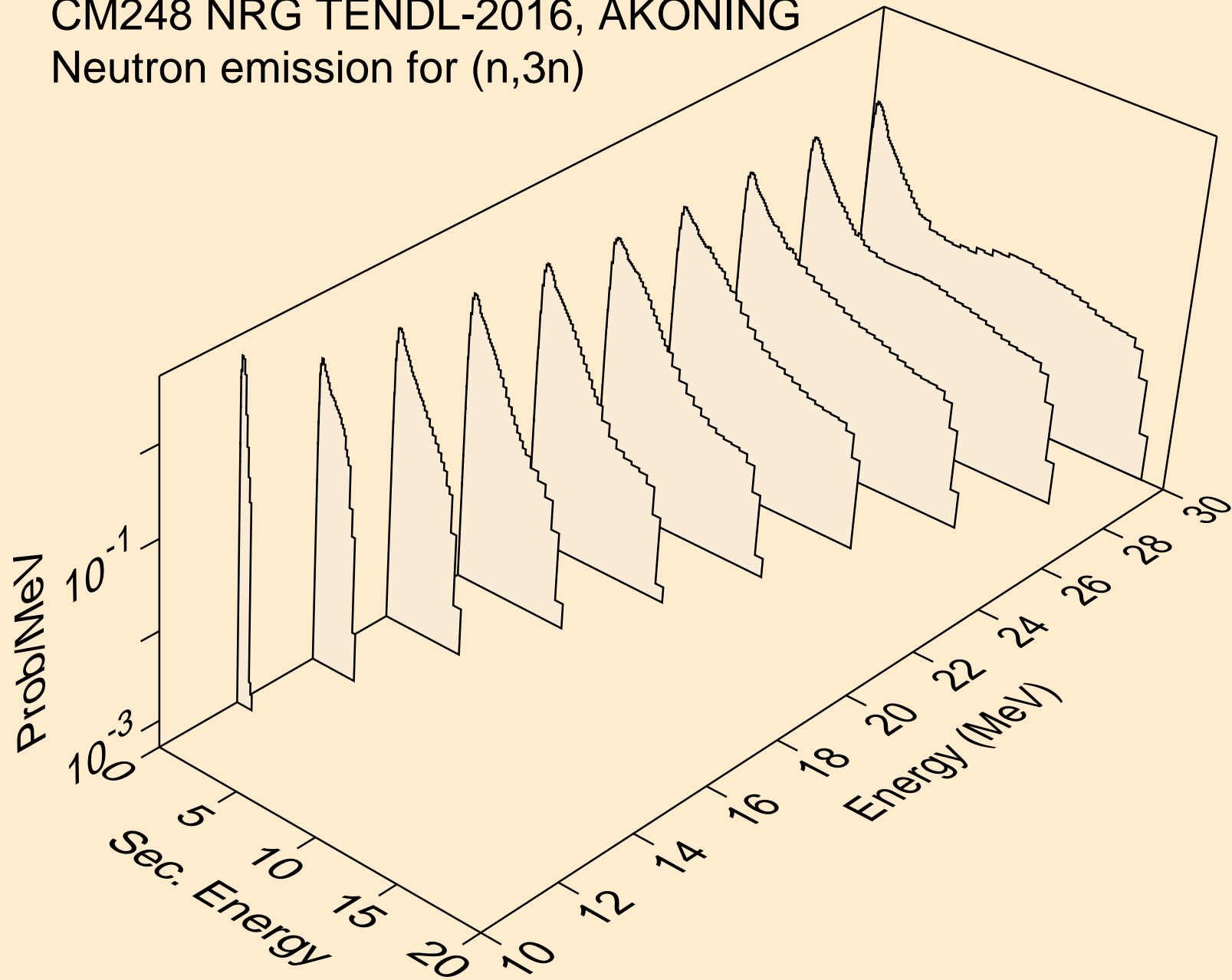
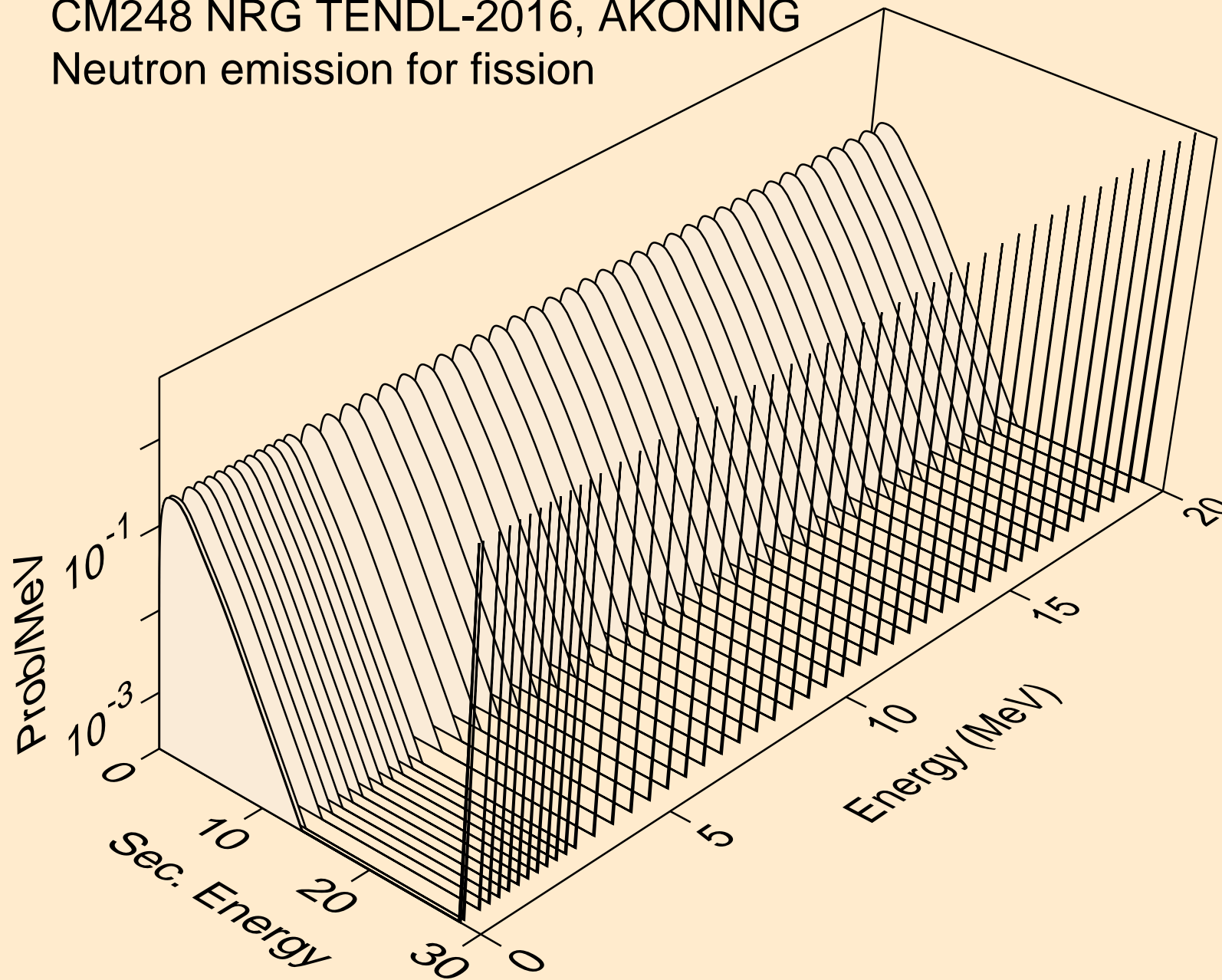CM248 NRG TENDL-2016, AKONING
Total fission nubar

CM248 NRG TENDL-2016, AKONING
Neutron emission for (n,x)

CM248 NRG TENDL-2016, AKONING
Neutron emission for (n,2nd)

CM248 NRG TENDL-2016, AKONING
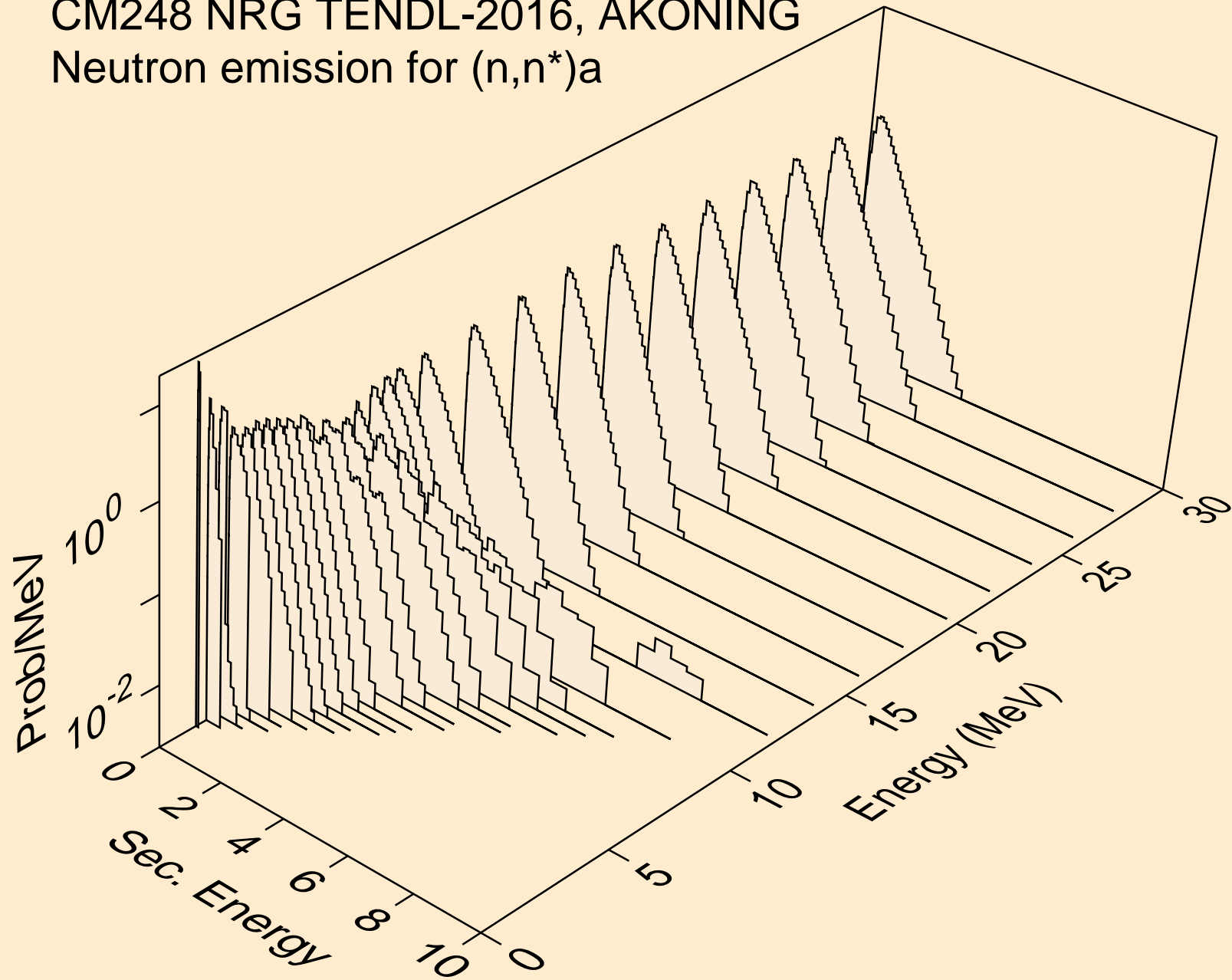Neutron emission for (n,2n)

CM248 NRG TENDL-2016, AKONING
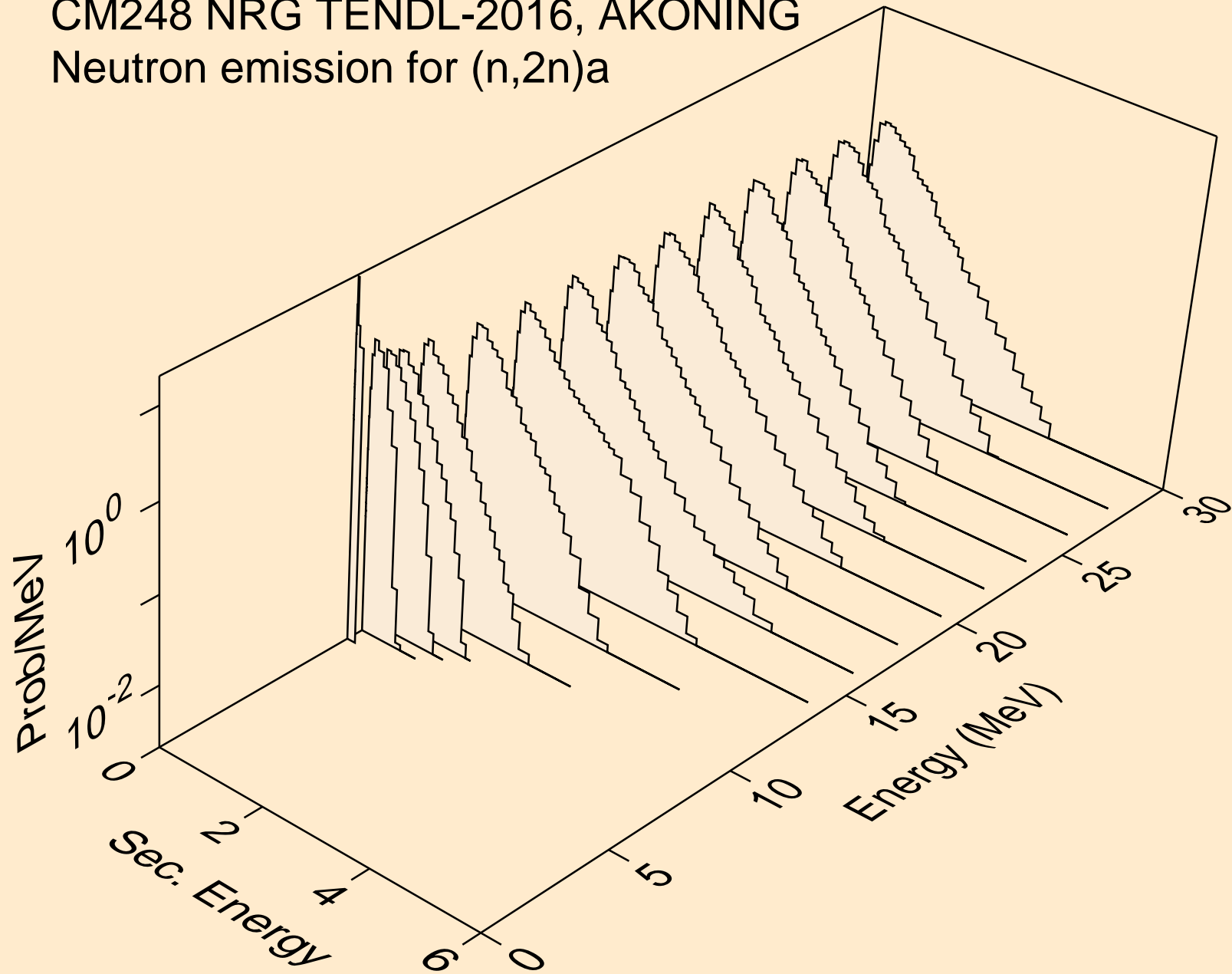Neutron emission for (n,3n)
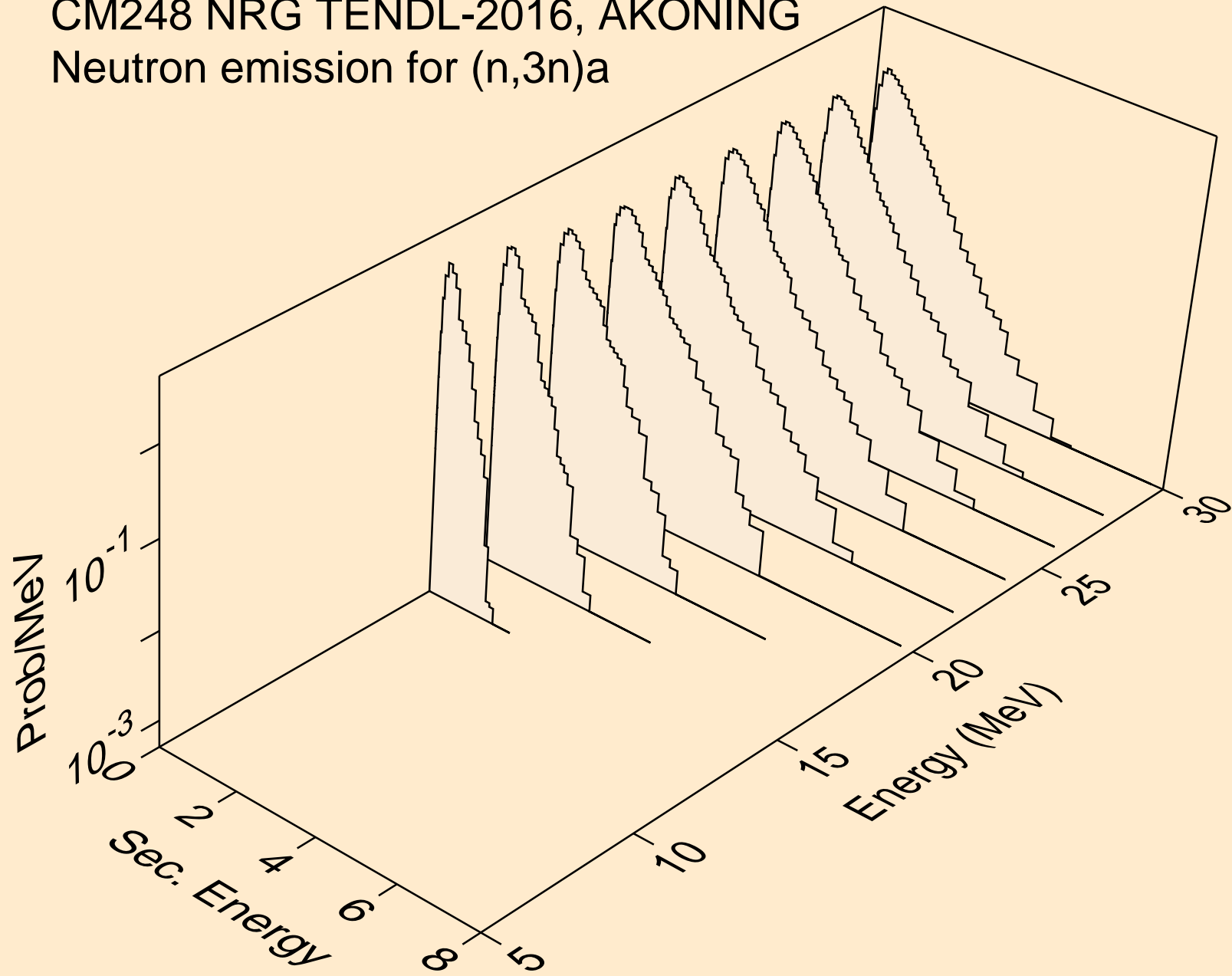
CM248 NRG TENDL-2016, AKONING
Neutron emission for fission

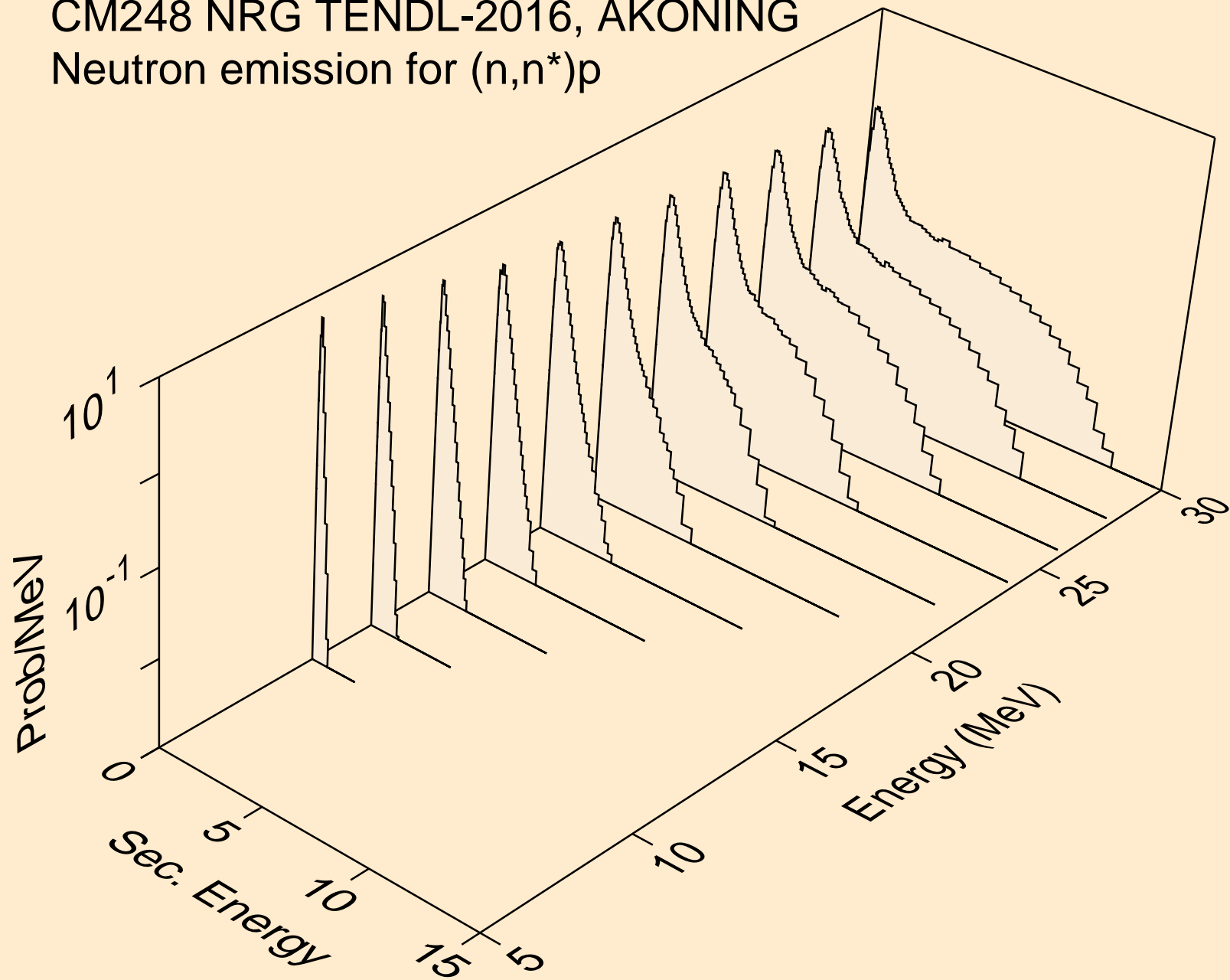CM248 NRG TENDL-2016, AKONING
Neutron emission for (n,n*)a

CM248 NRG TENDL-2016, AKONING
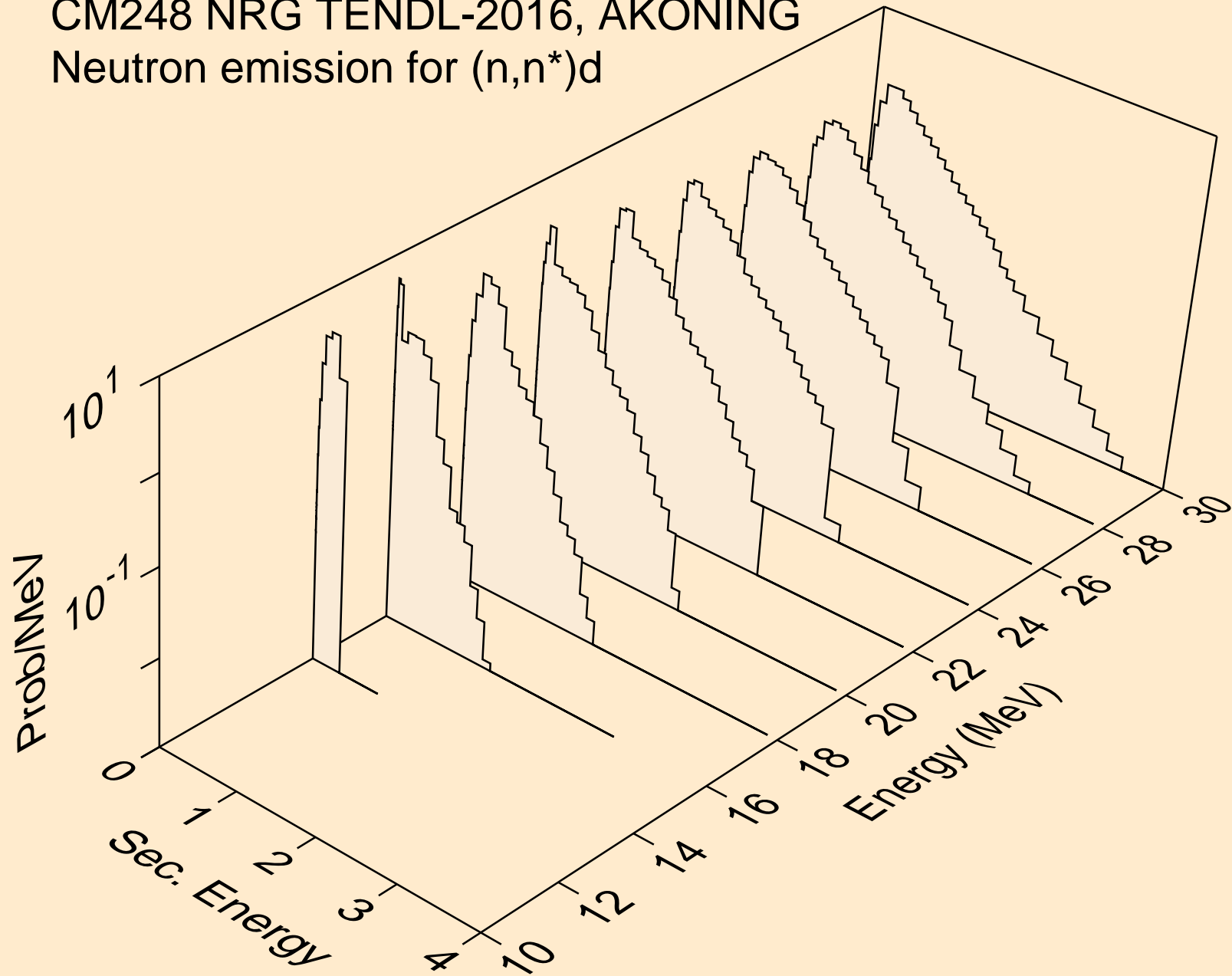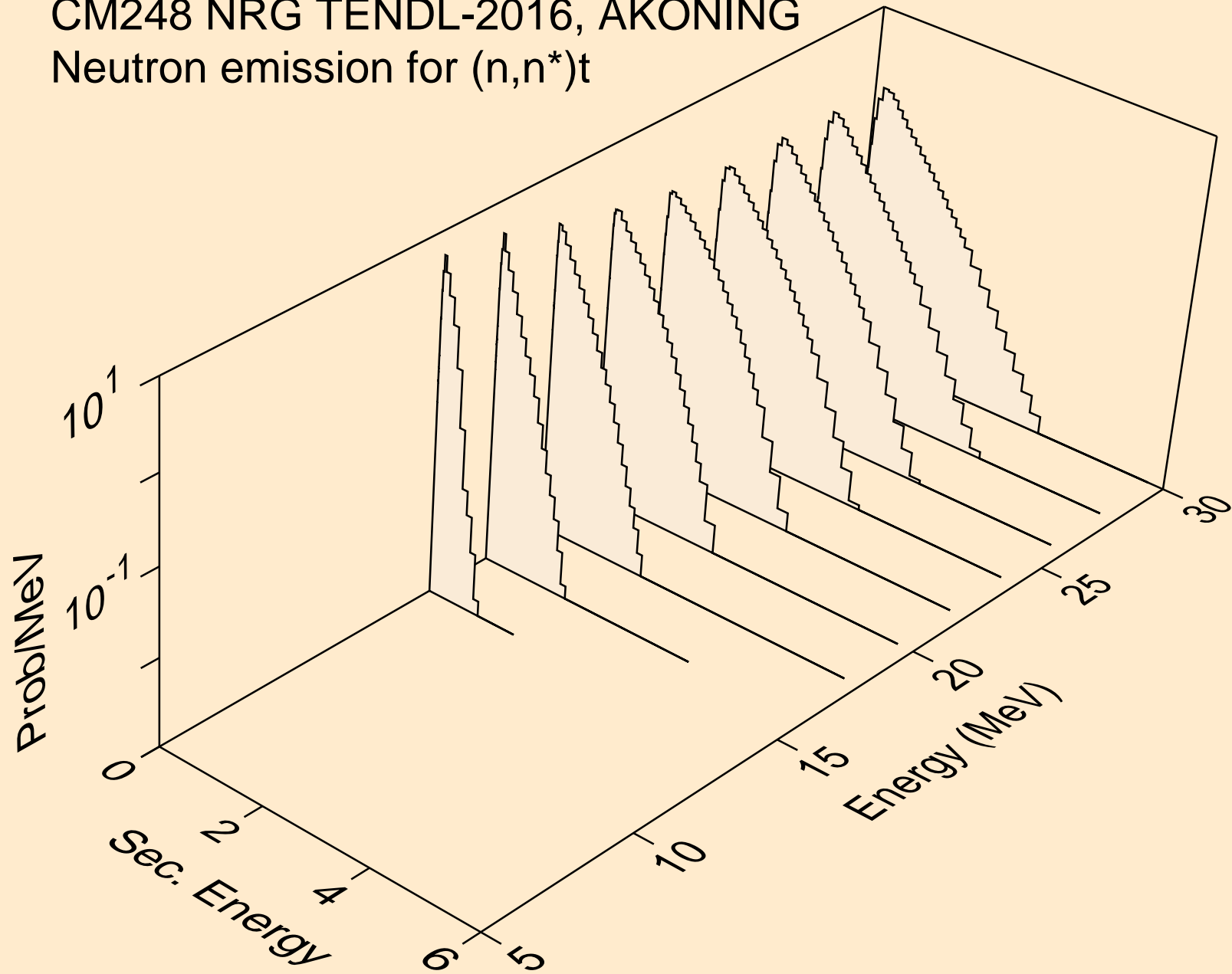Neutron emission for (n,2n)a

CM248 NRG TENDL-2016, AKONING
Neutron emission for (n,3n)a

CM248 NRG TENDL-2016, AKONING
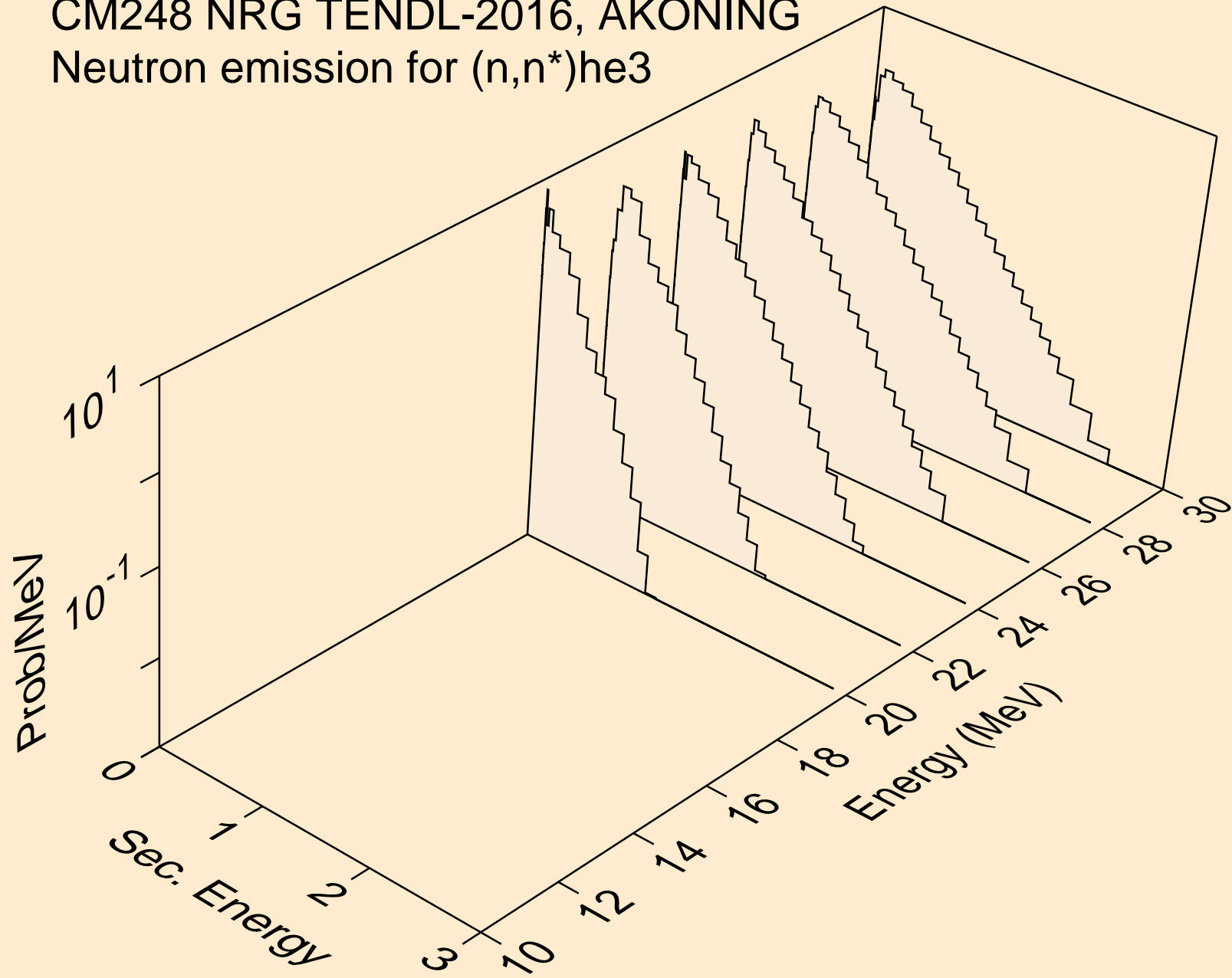Neutron emission for (n,n*)p

CM248 NRG TENDL-2016, AKONING
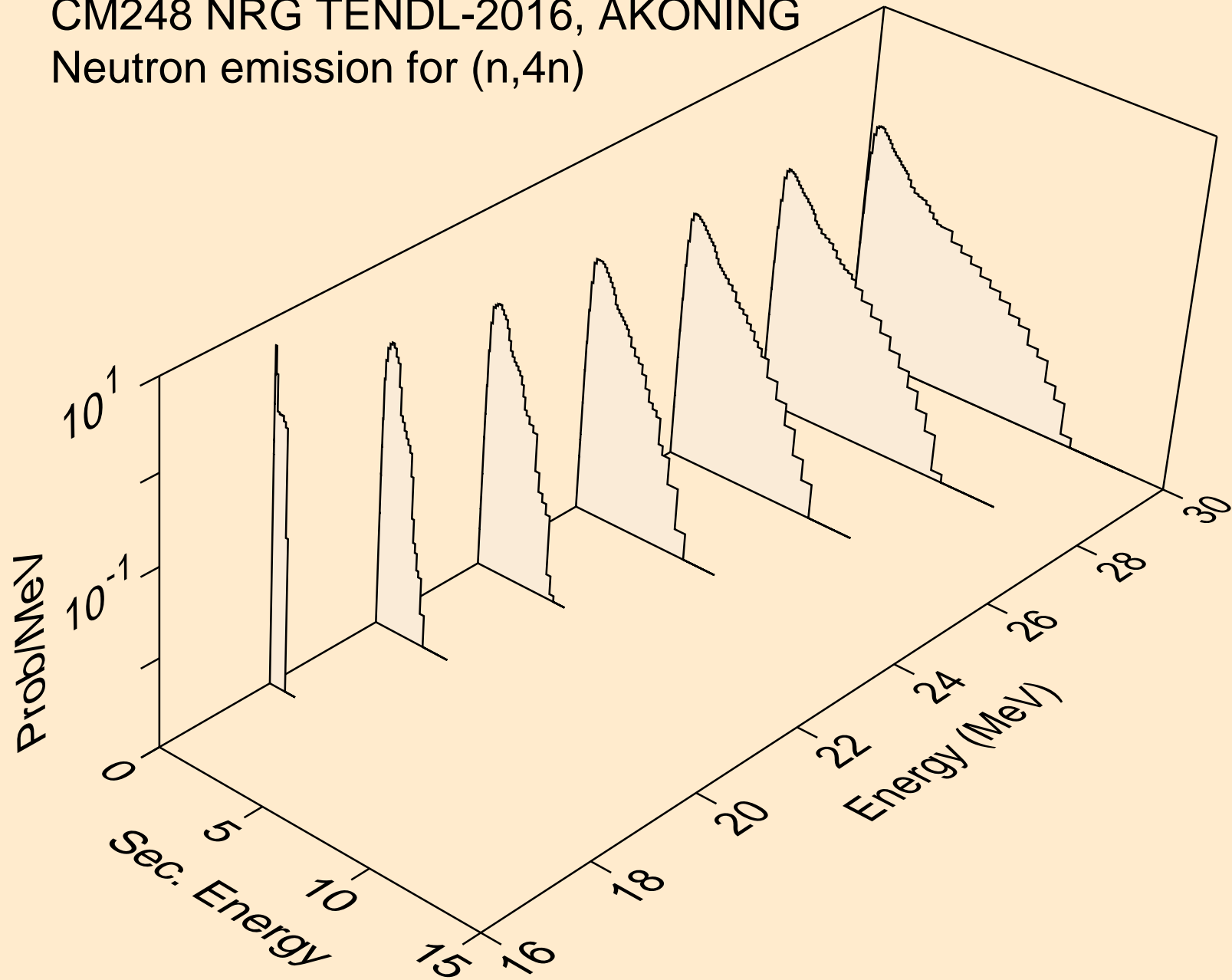Neutron emission for (n,n*)d

CM248 NRG TENDL-2016, AKONING
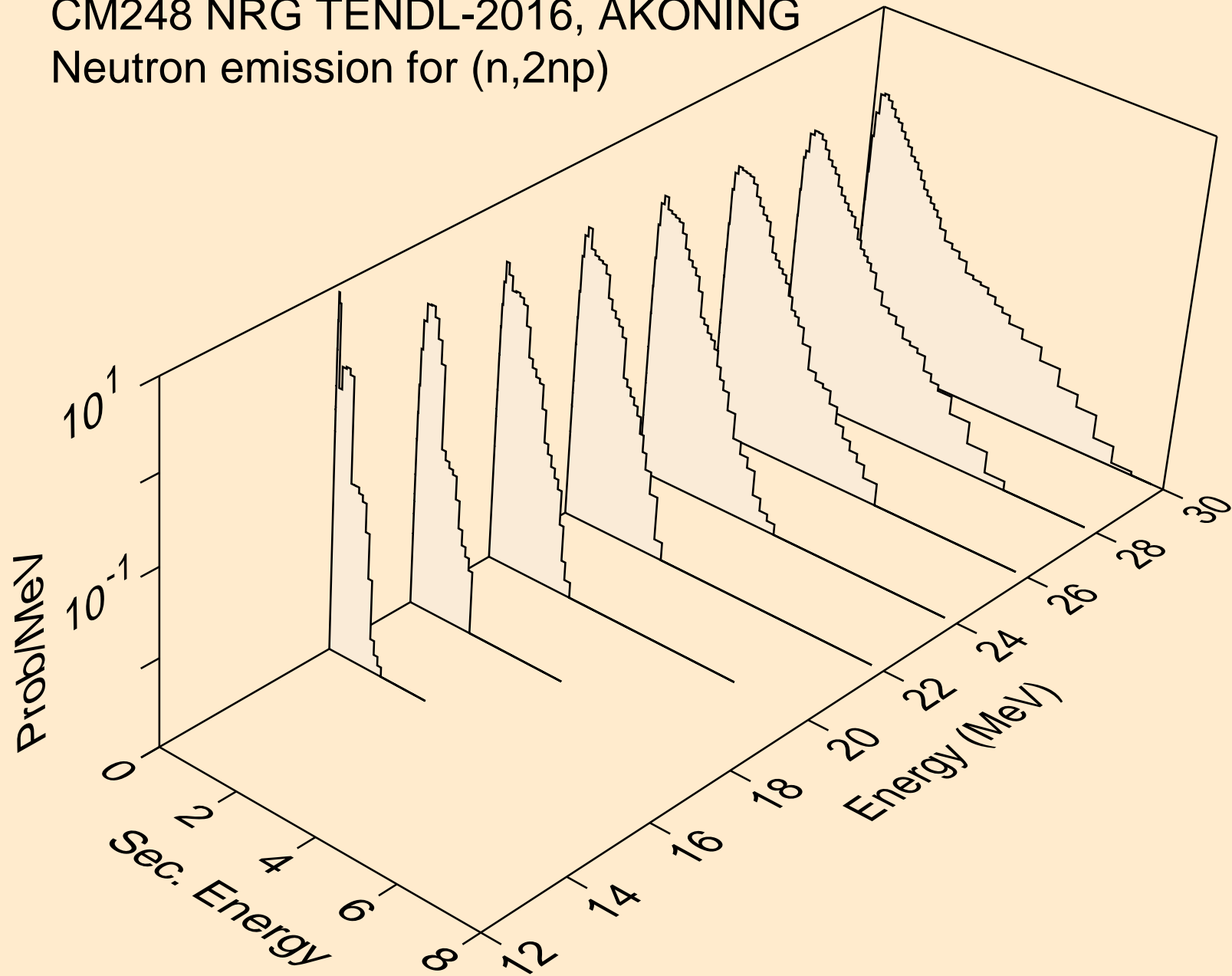Neutron emission for (n,n*)t

CM248 NRG TENDL-2016, AKONING
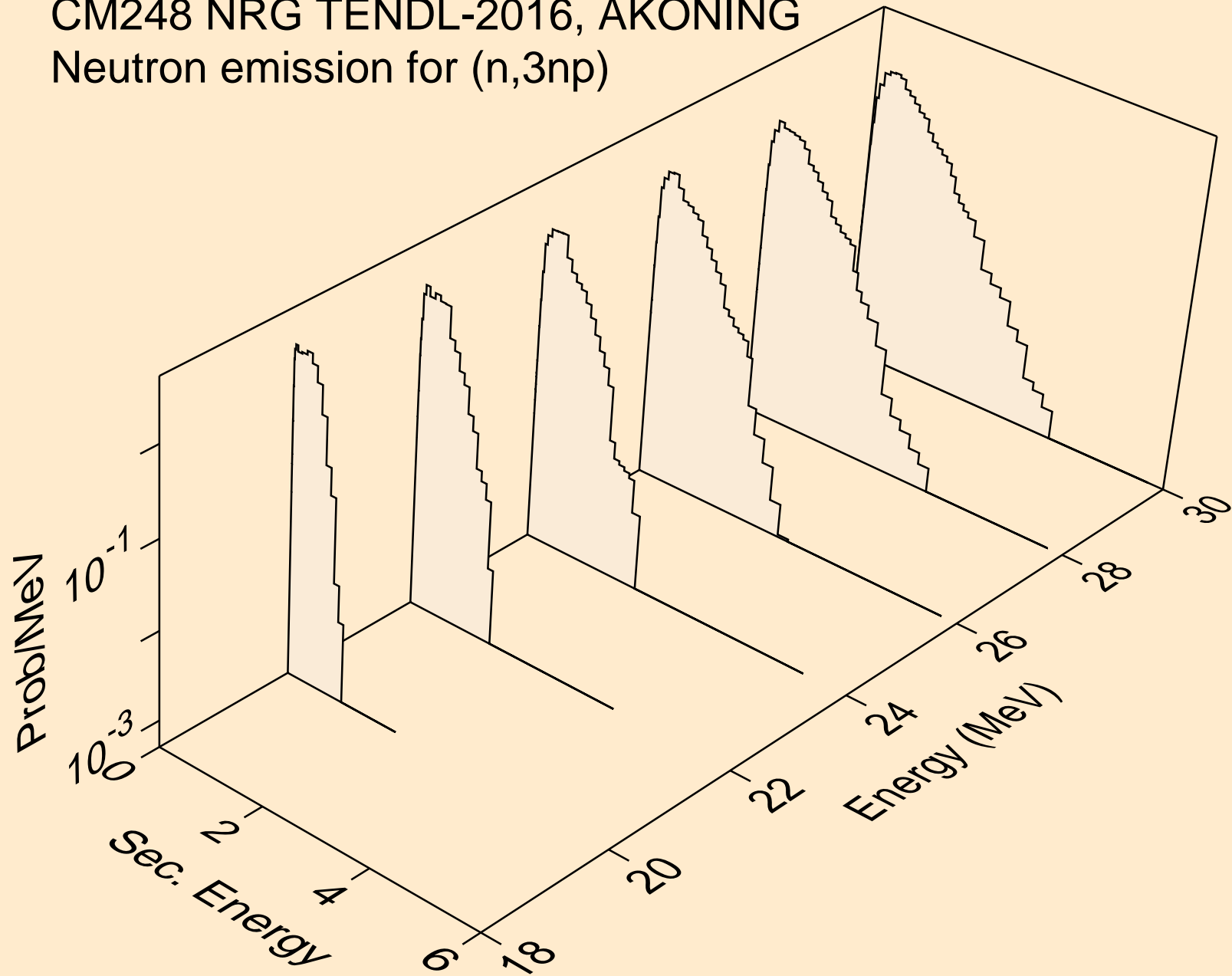Neutron emission for (n,n*)he3

CM248 NRG TENDL-2016, AKONING
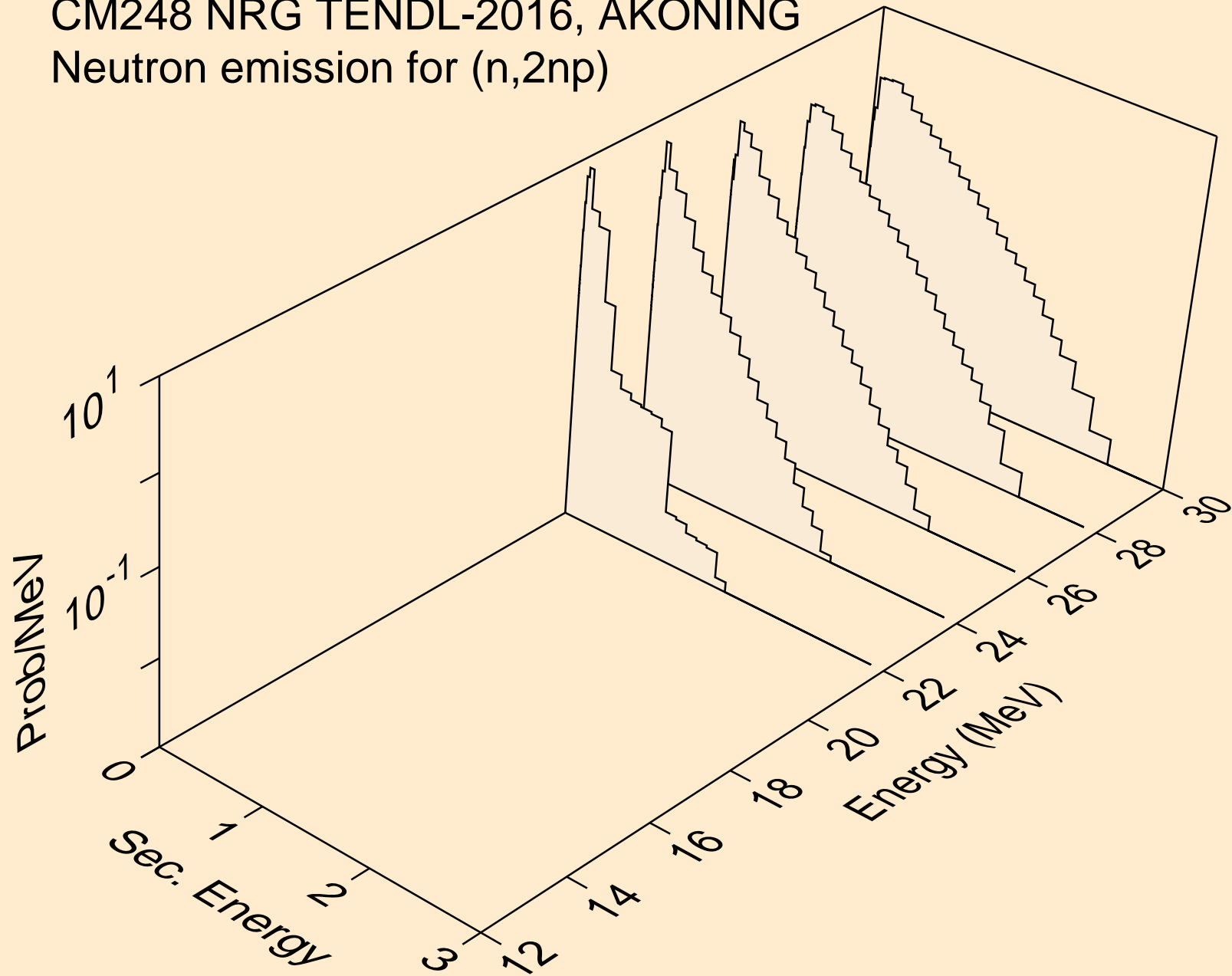Neutron emission for (n,4n)

CM248 NRG TENDL-2016, AKONING
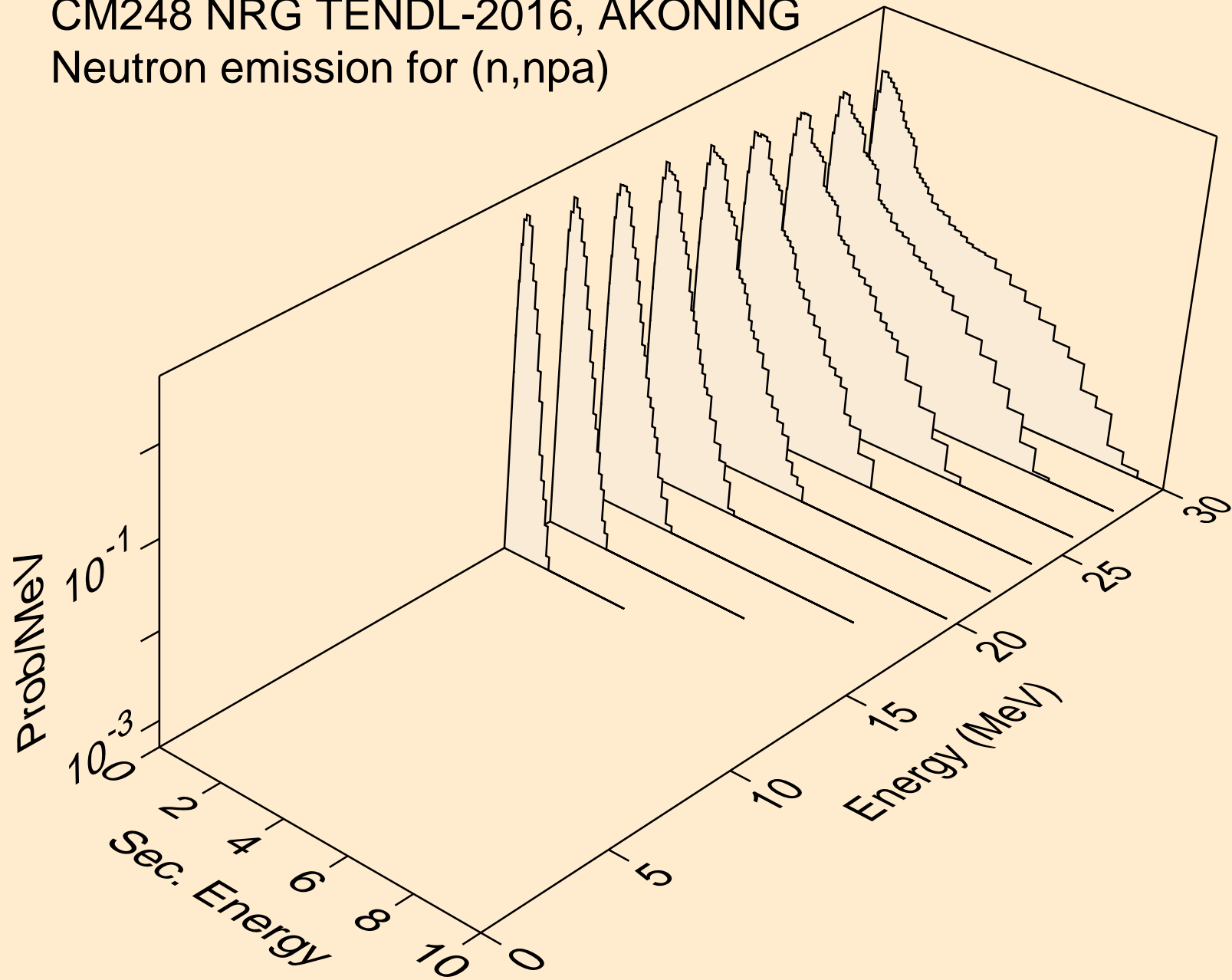Neutron emission for (n,2np)

CM248 NRG TENDL-2016, AKONING
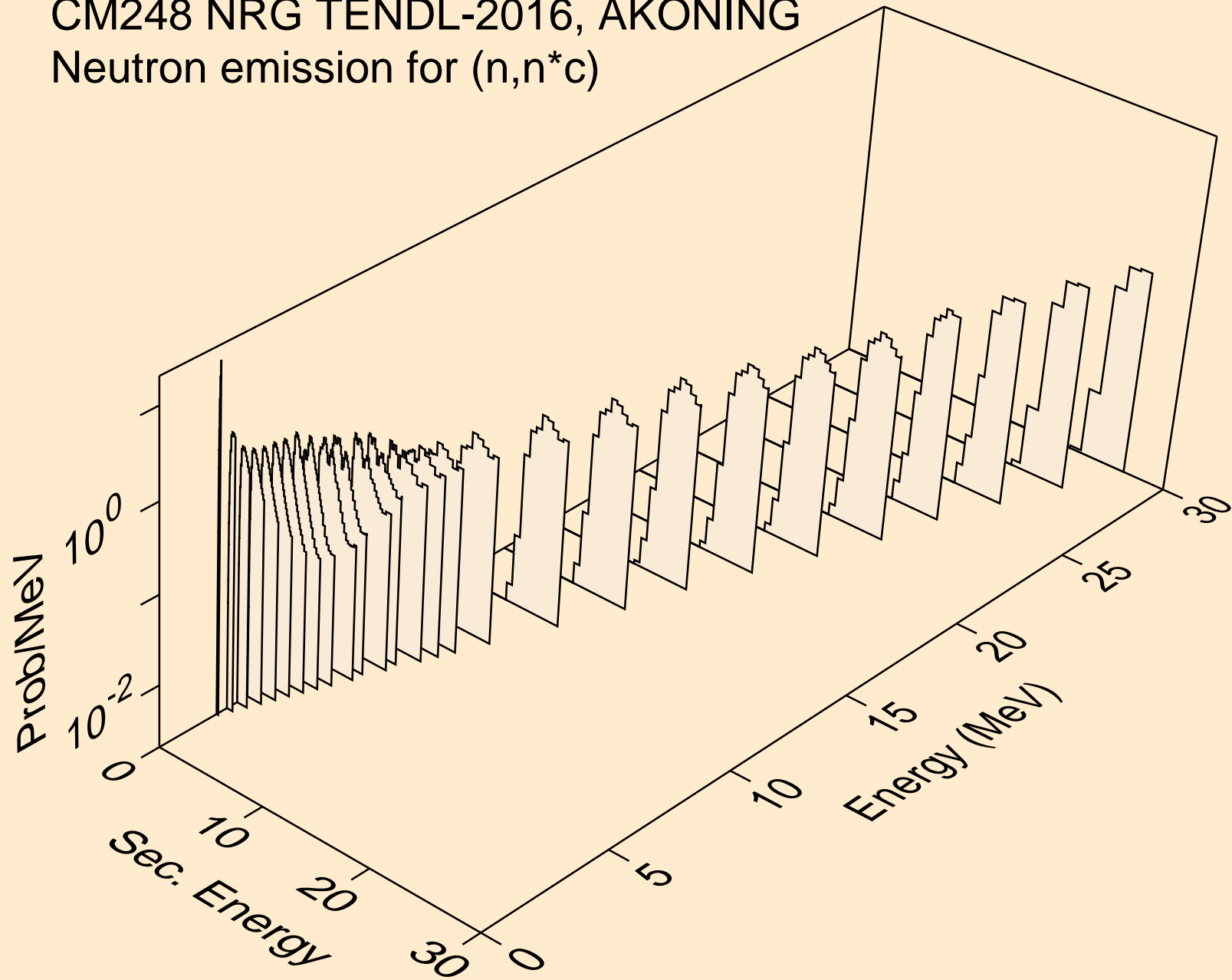Neutron emission for (n,3np)

CM248 NRG TENDL-2016, AKONING
Neutron emission for (n,2np)

CM248 NRG TENDL-2016, AKONING
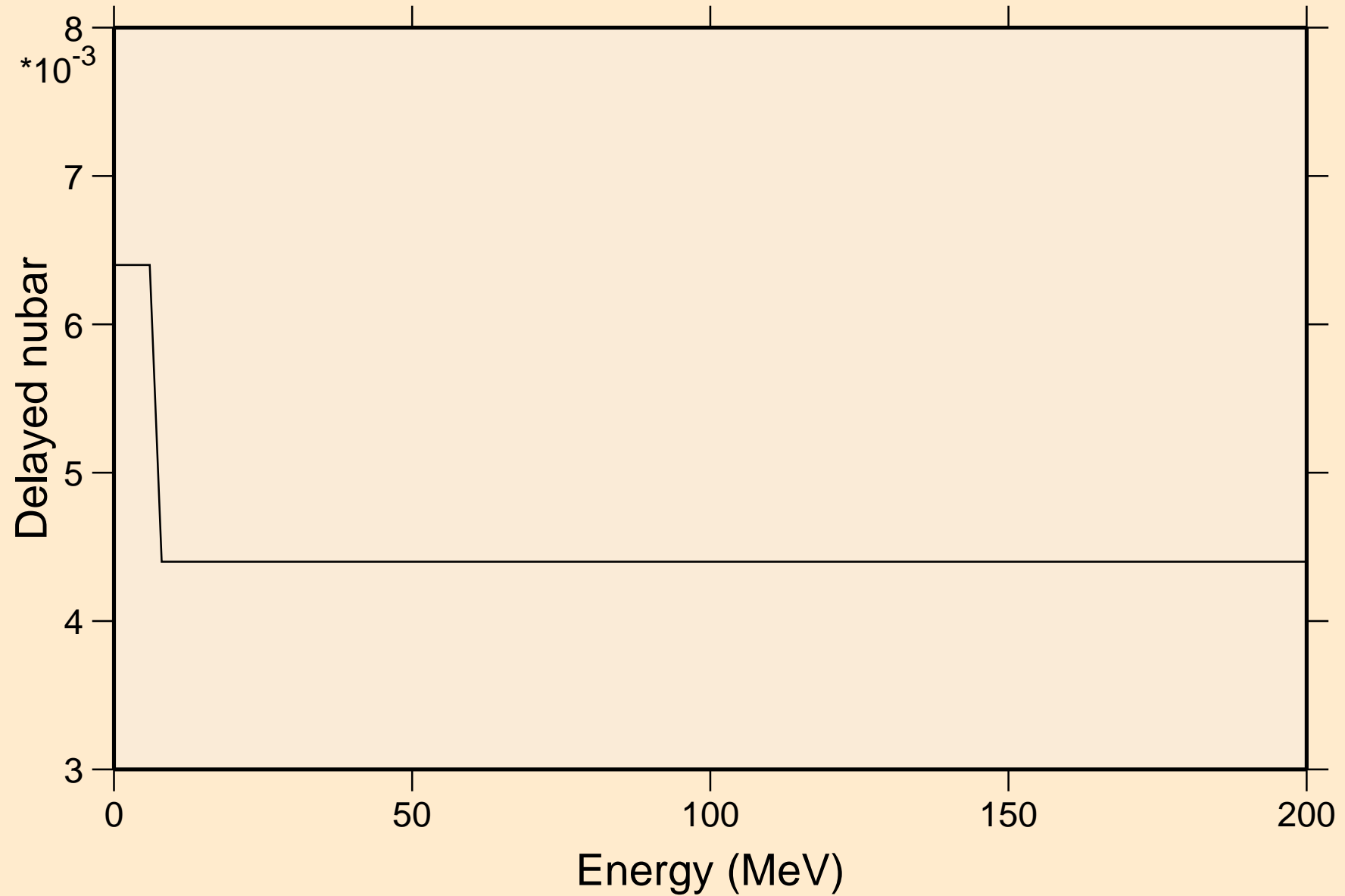Neutron emission for (n,npa)

CM248 NRG TENDL-2016, AKONING
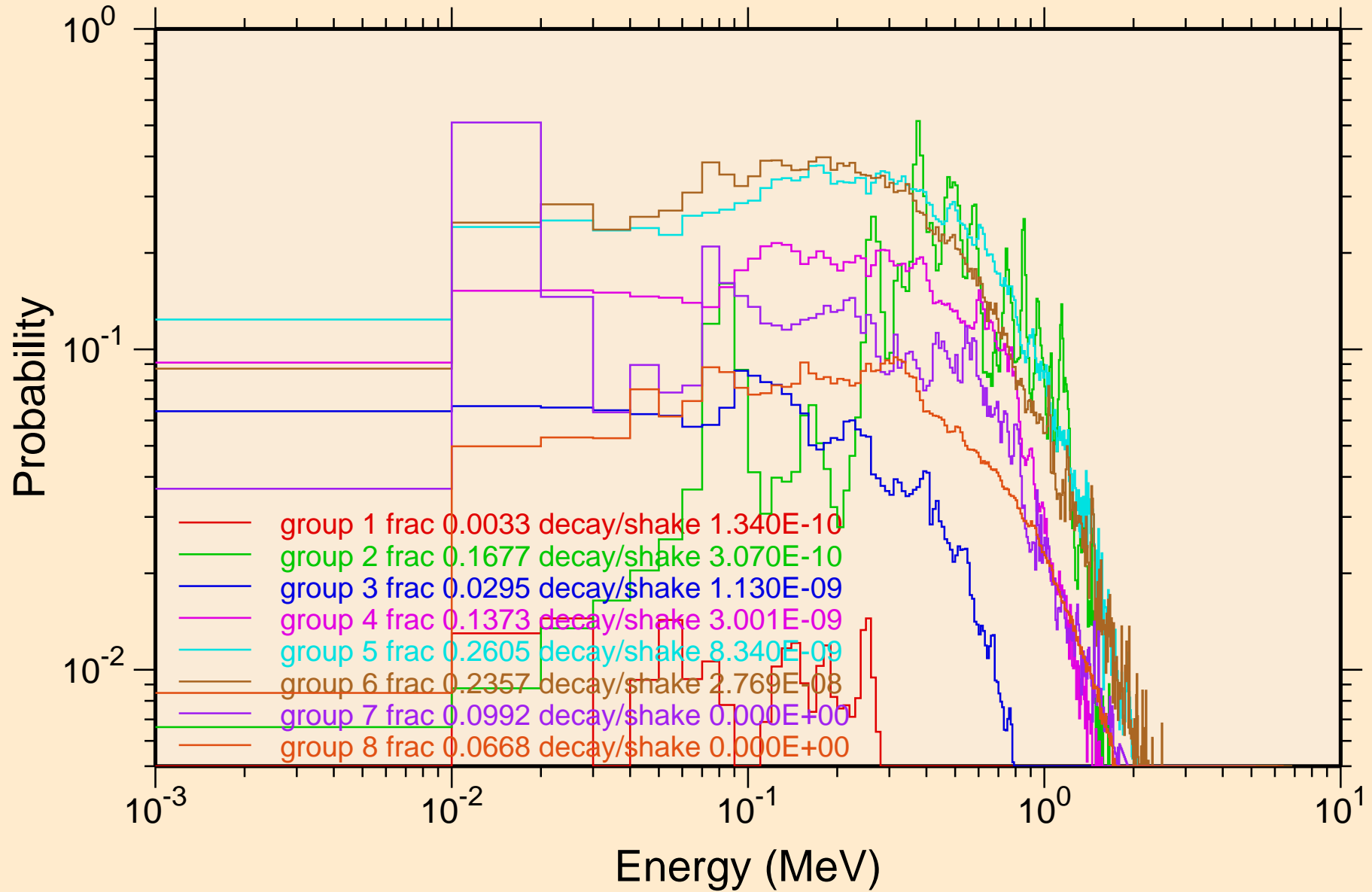Neutron emission for (n,n*c)
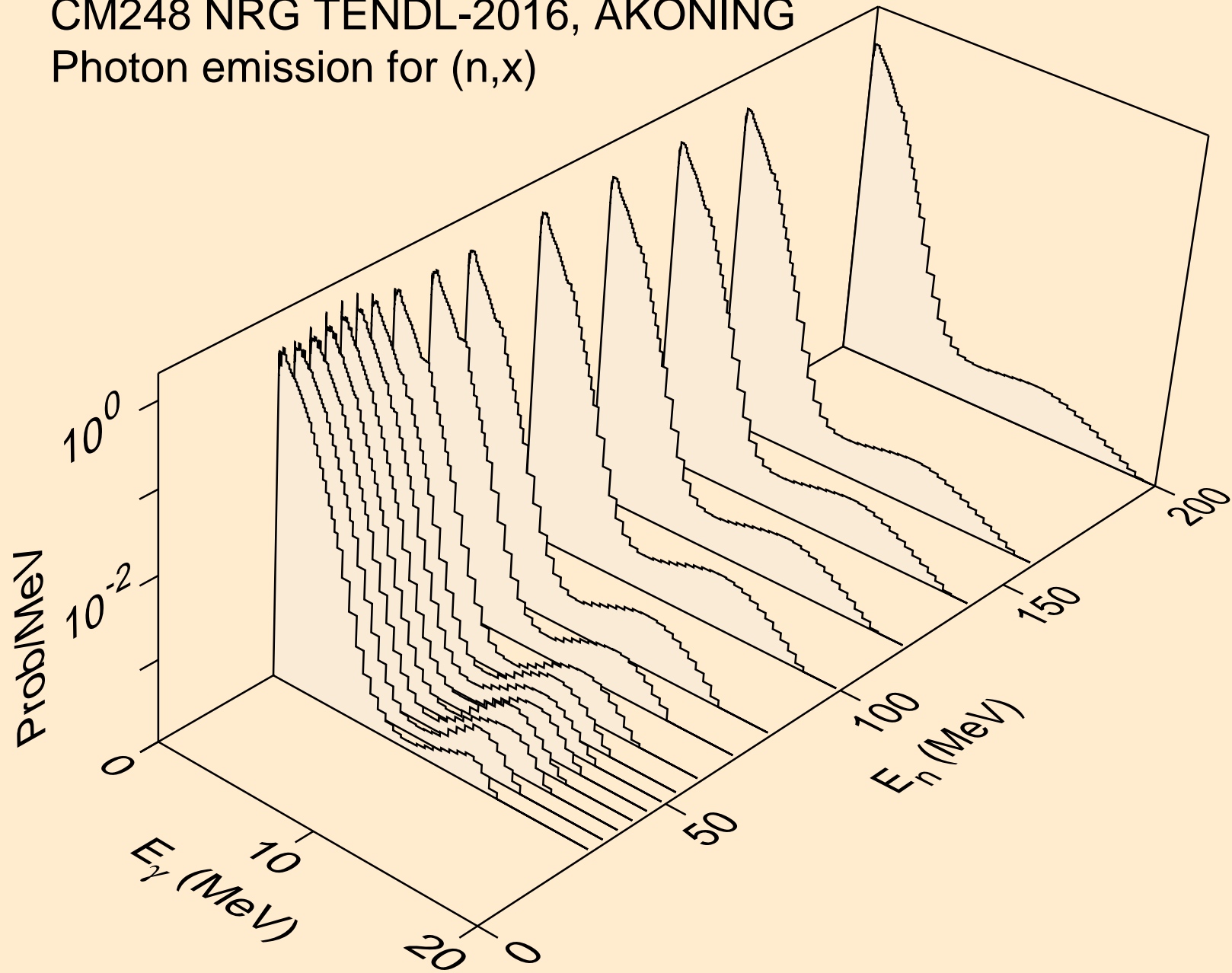
CM248 NRG TENDL-2016, AKONING
Delayed nubar

CM248 NRG TENDL-2016, AKONING
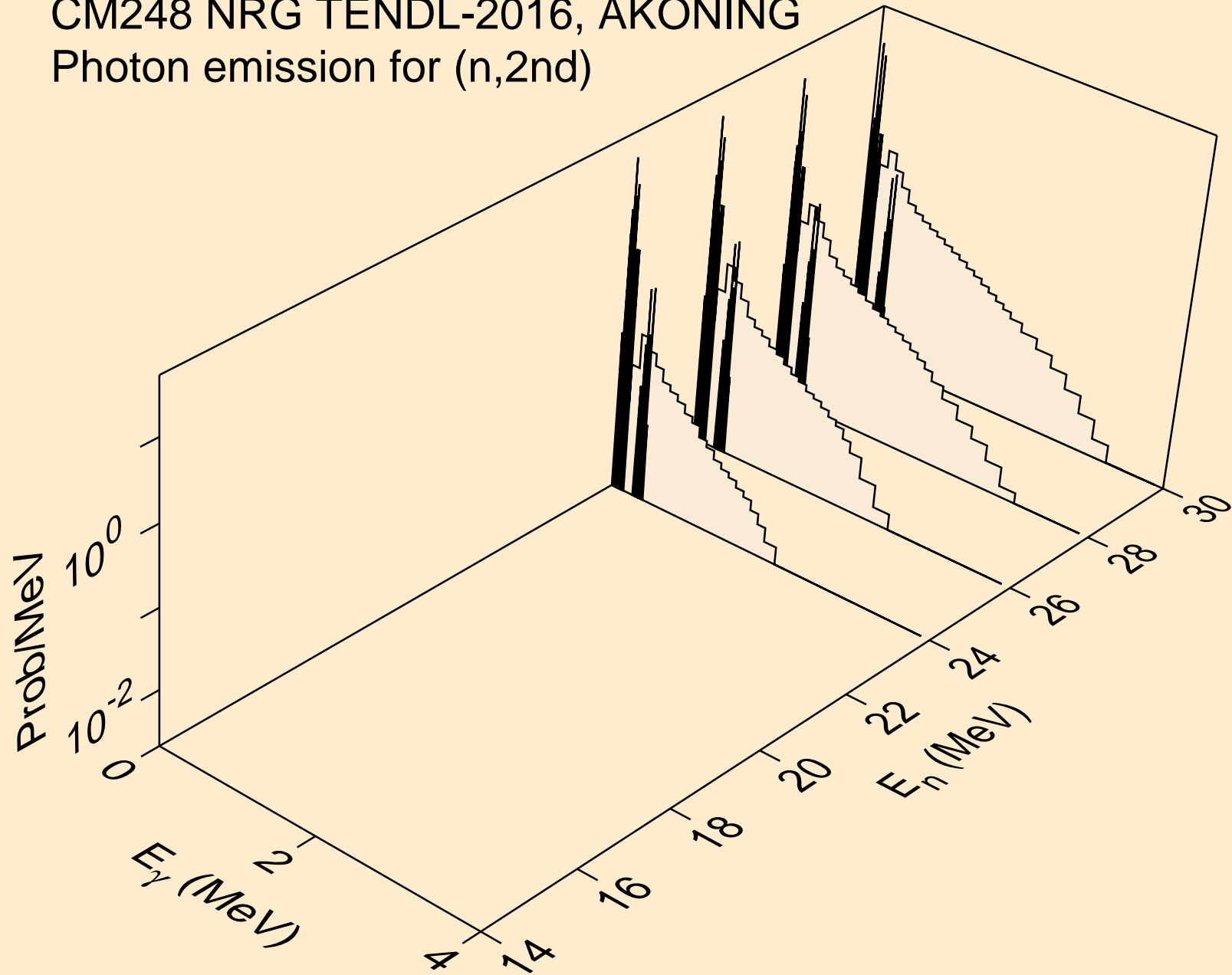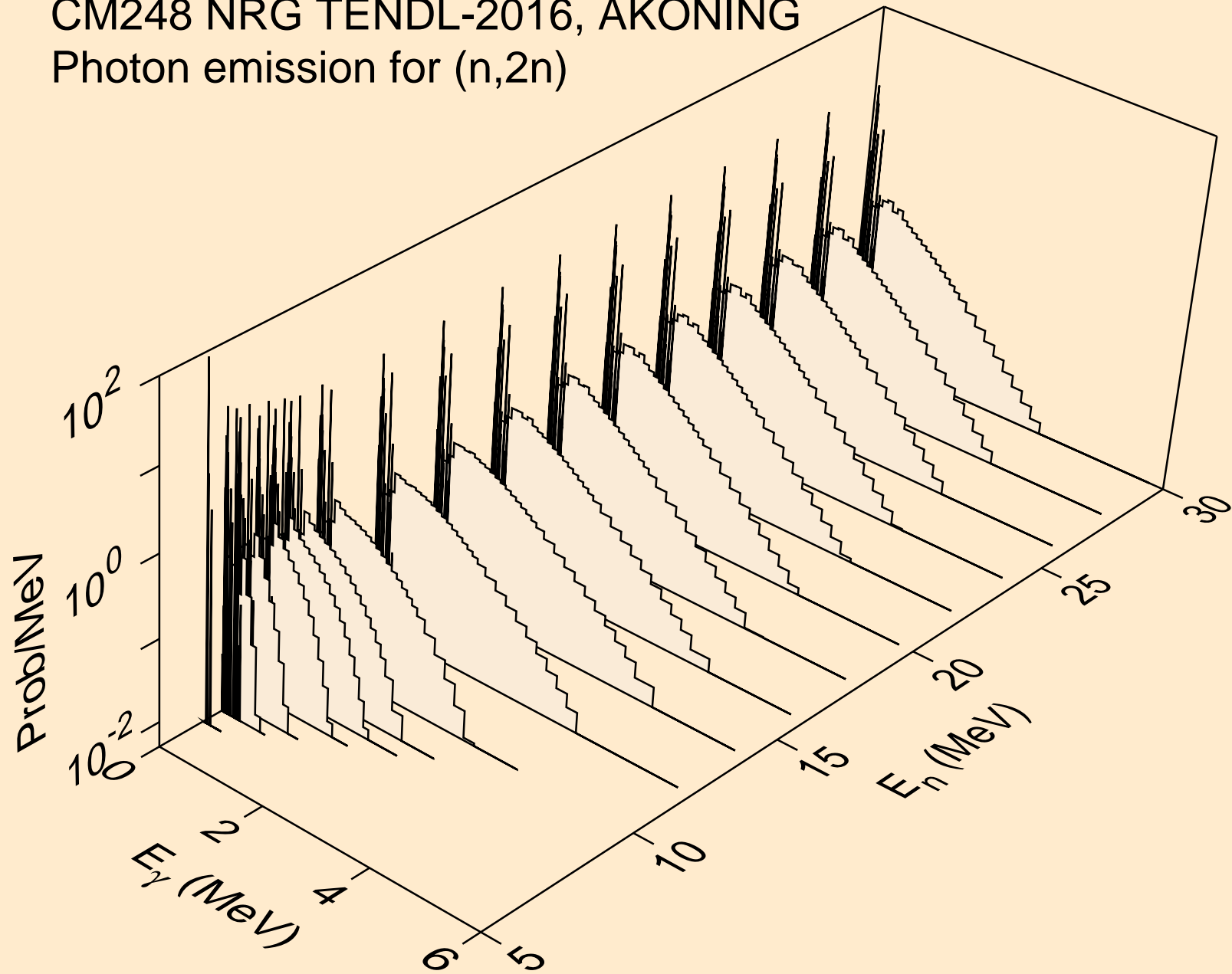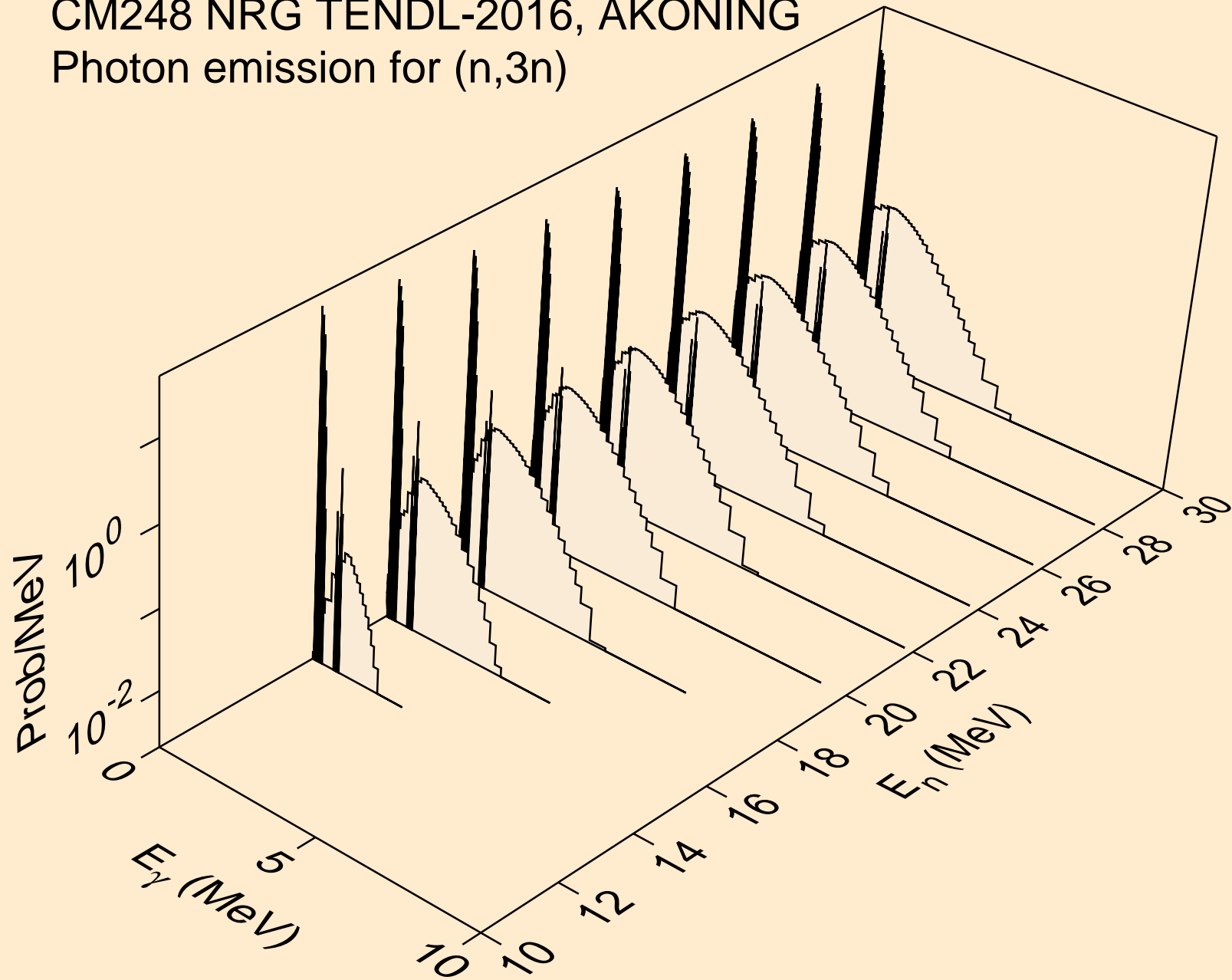Delayed neutron spectra

group 1 frac 0.0033 decay/shake 1.340E-10
group 2 frac 0.1677 decay/shake 3.070E-10
group 3 frac 0.0295 decay/shake 1.130E-09
group 4 frac 0.1373 decay/shake 3.001E-09
group 5 frac 0.2605 decay/shake 8.340E-09
group 6 frac 0.2357 decay/shake 2.769E-08
group 7 frac 0.0992 decay/shake 0.000E+00
group 8 frac 0.0668 decay/shake 0.000E+00

CM248 NRG TENDL-2016, AKONING
Photon emission for (n,x)

CM248 NRG TENDL-2016, AKONING
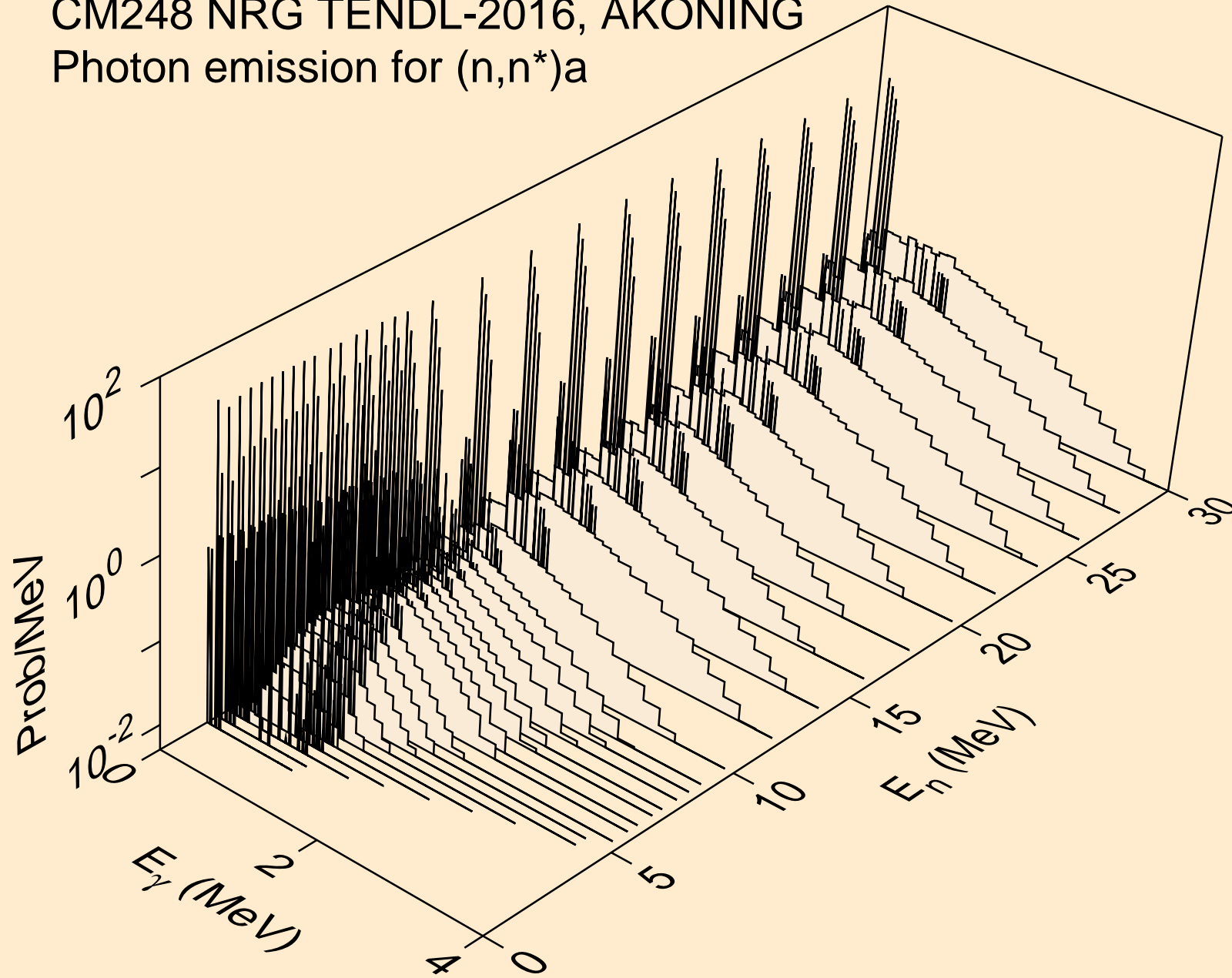Photon emission for (n,2nd)

CM248 NRG TENDL-2016, AKONING
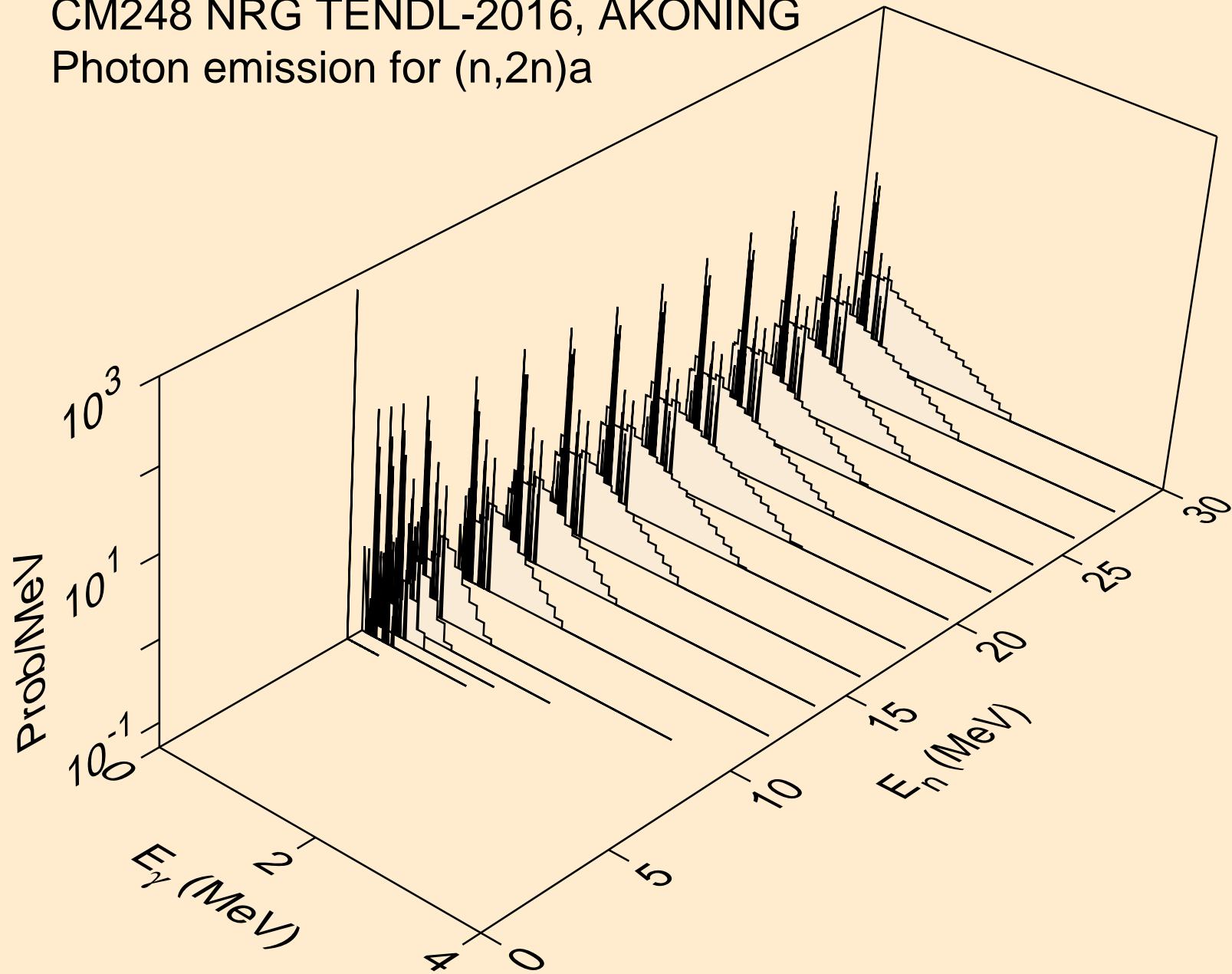Photon emission for (n,2n)

CM248 NRG TENDL-2016, AKONING
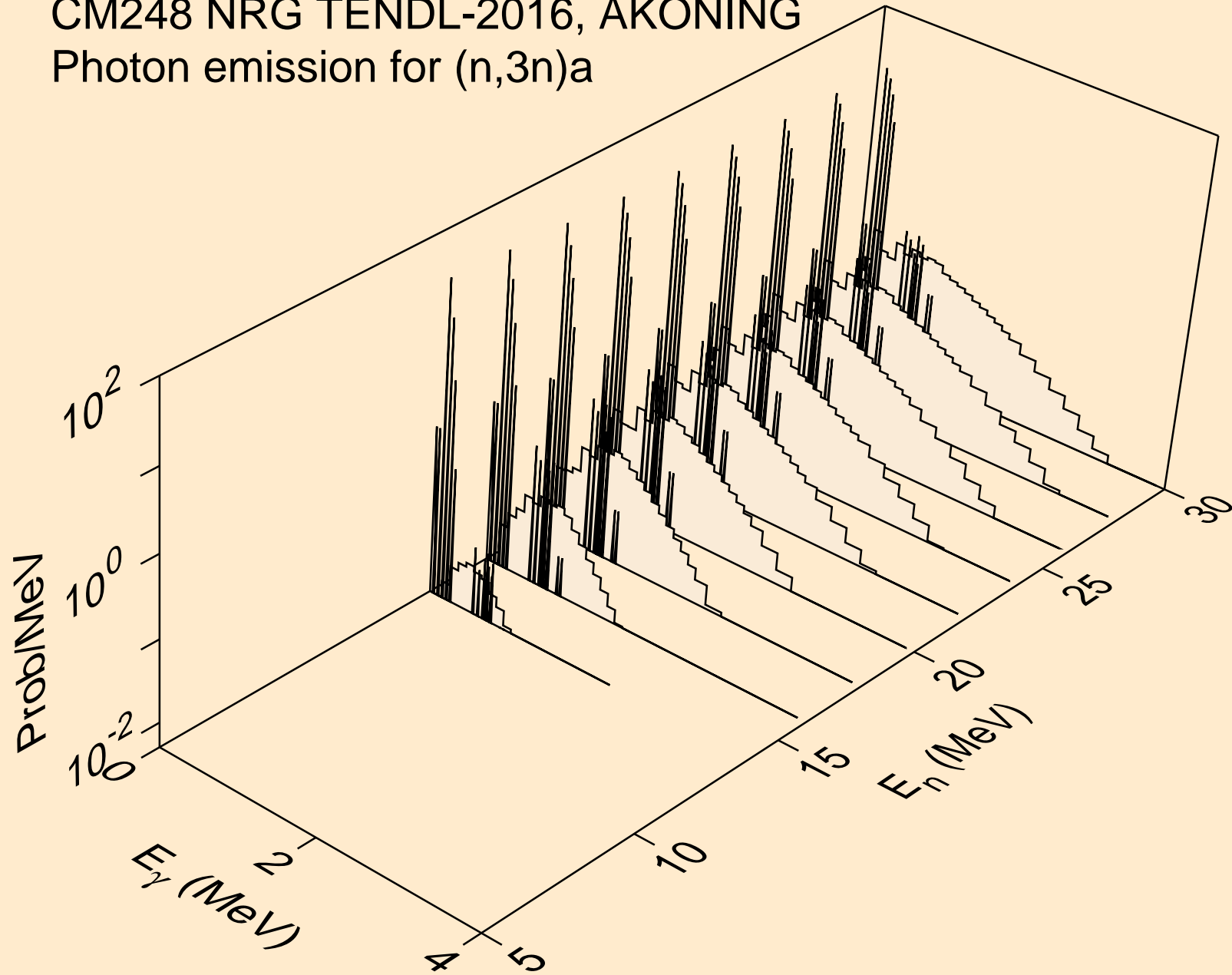Photon emission for (n,3n)

CM248 NRG TENDL-2016, AKONING
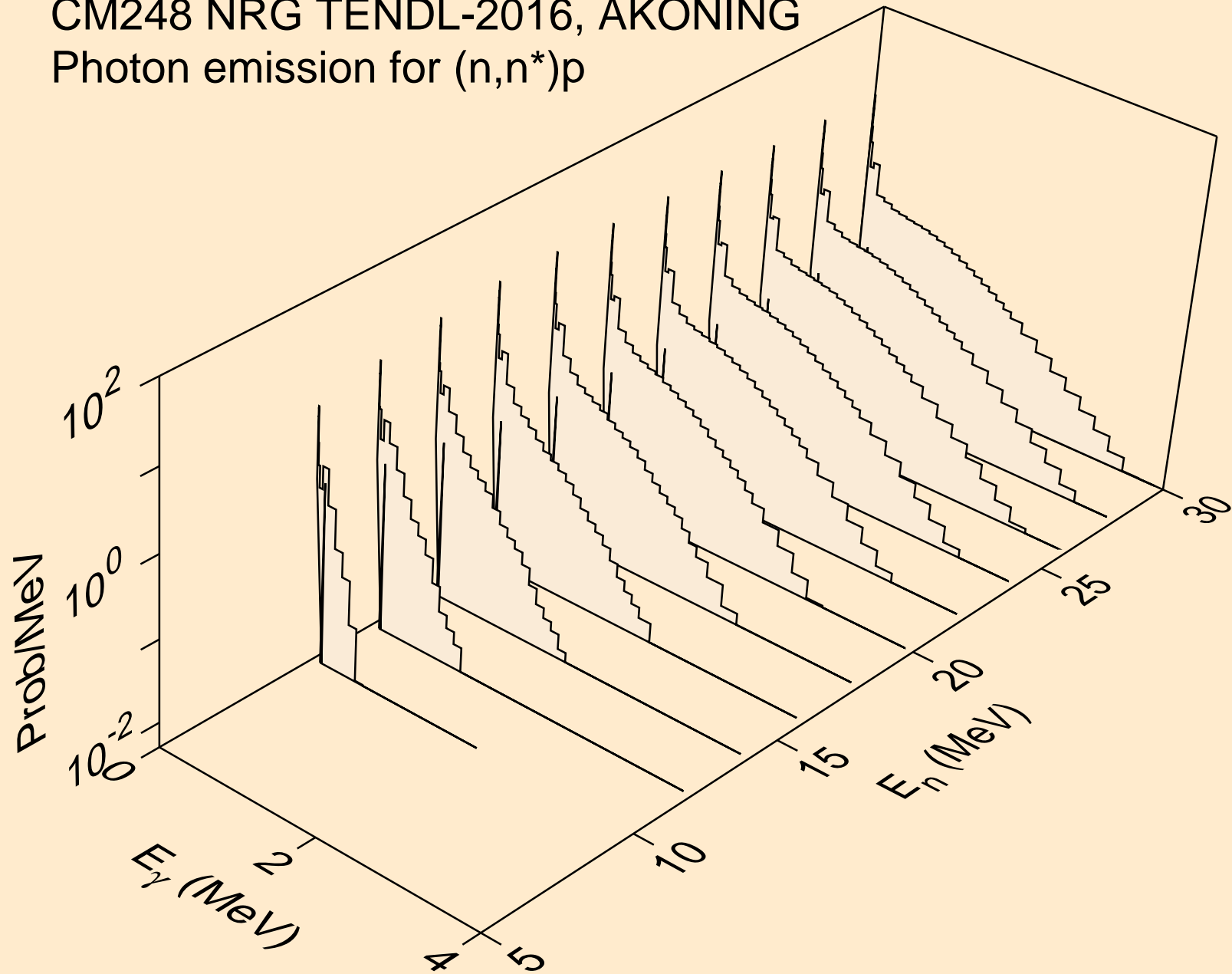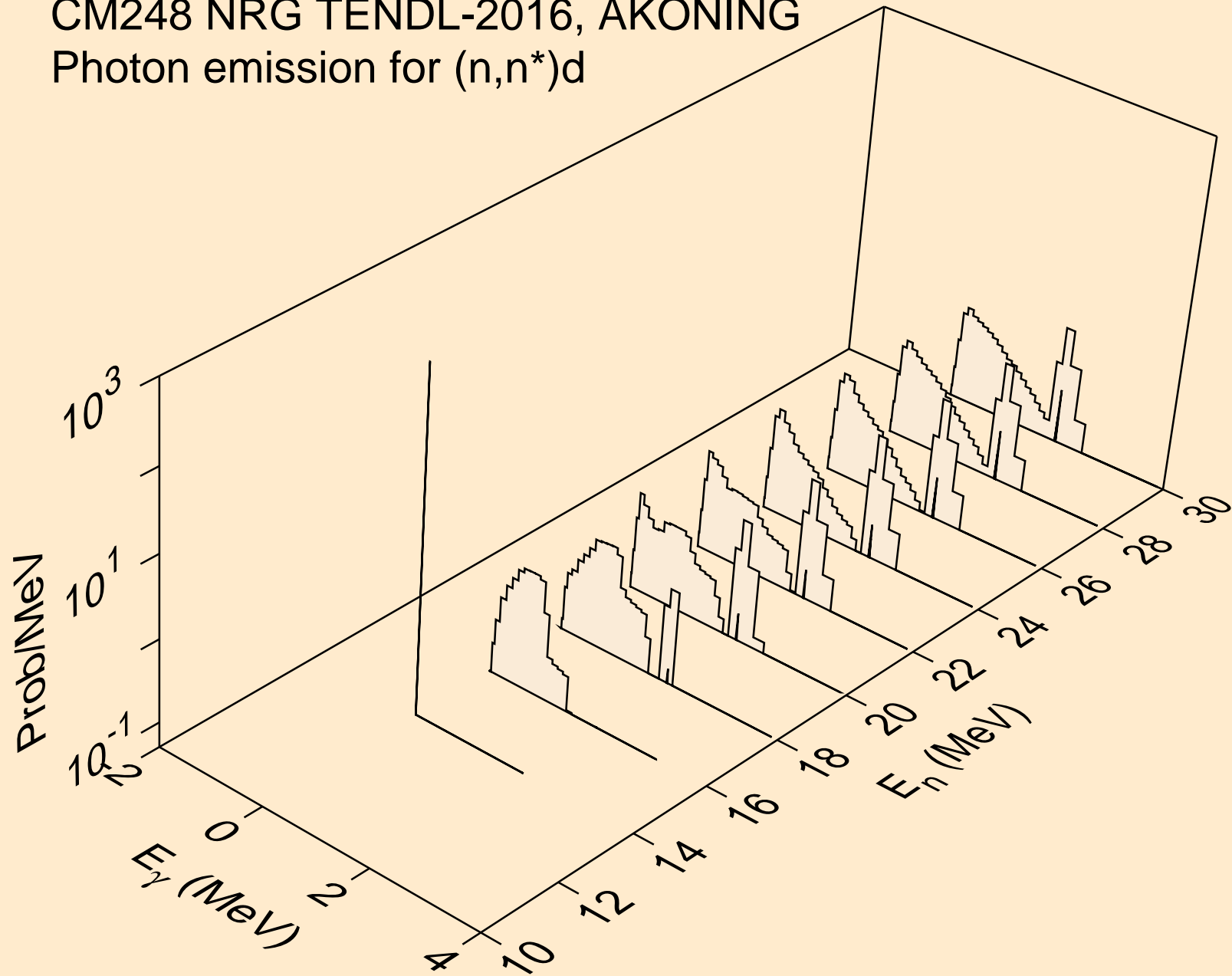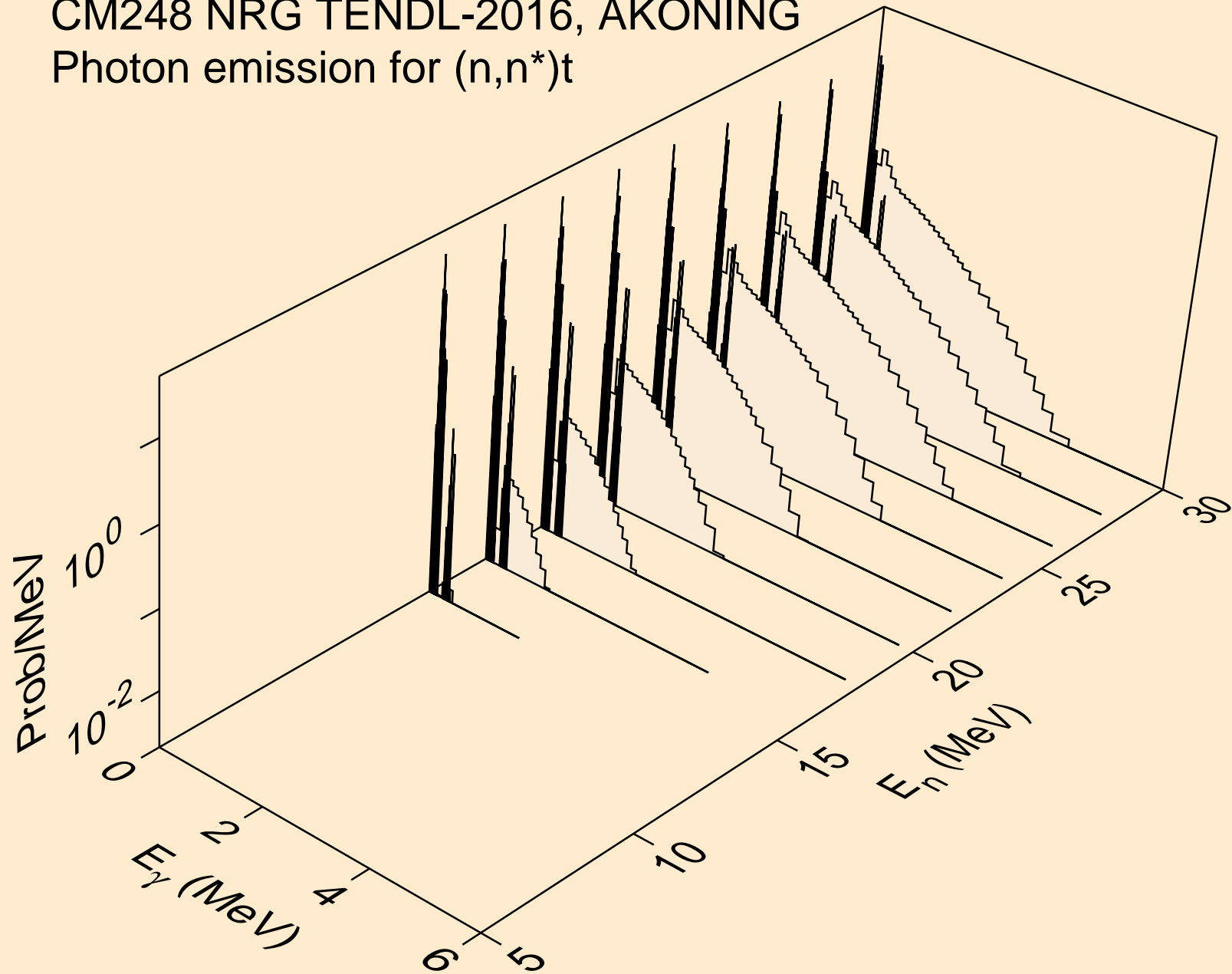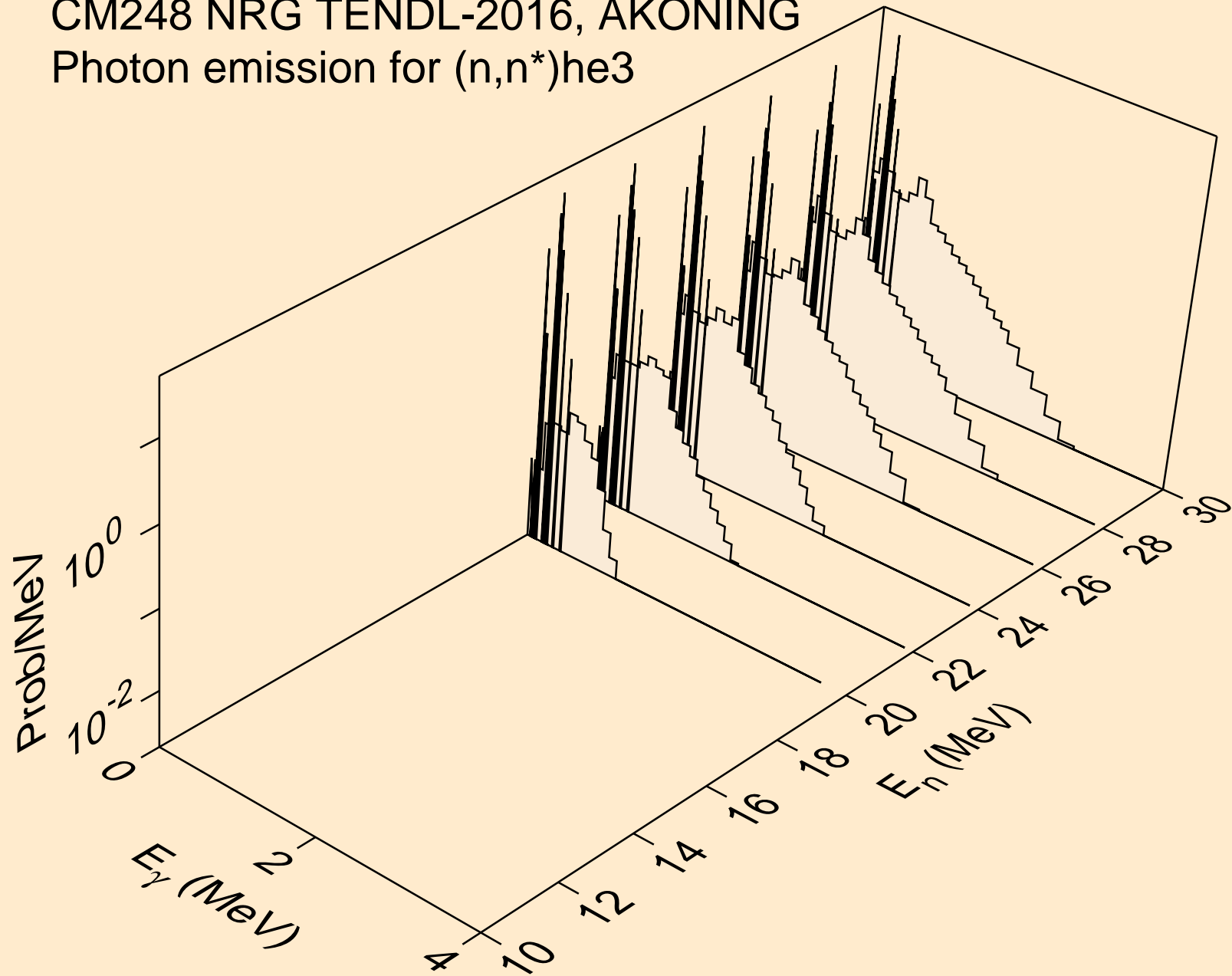Photon emission for (n,n*)a

E_γ (MeV)

E_n (MeV)

Prob/MeV

CM248 NRG TENDL-2016, AKONING
Photon emission for (n,2n)a

CM248 NRG TENDL-2016, AKONING
Photon emission for (n,3n)a
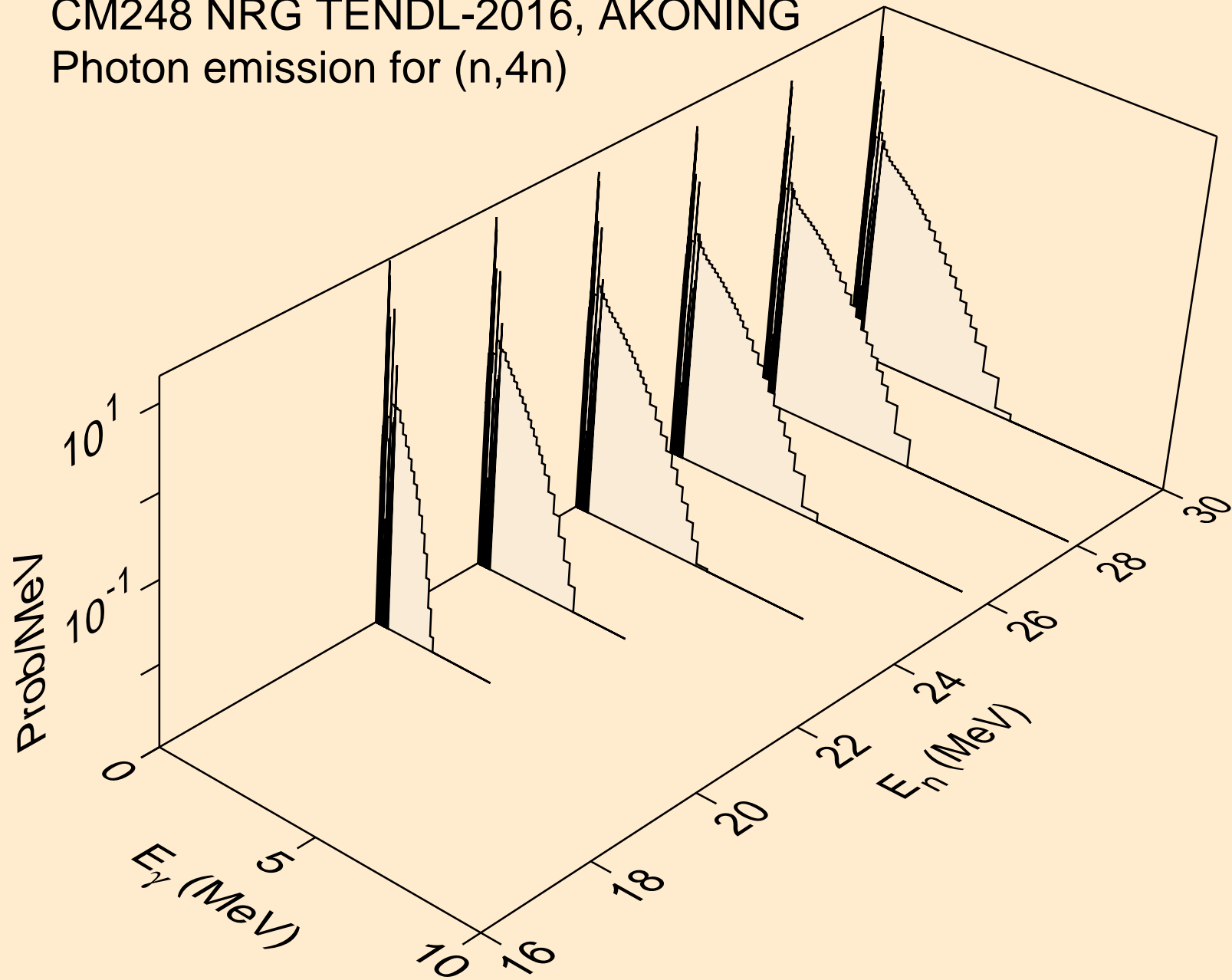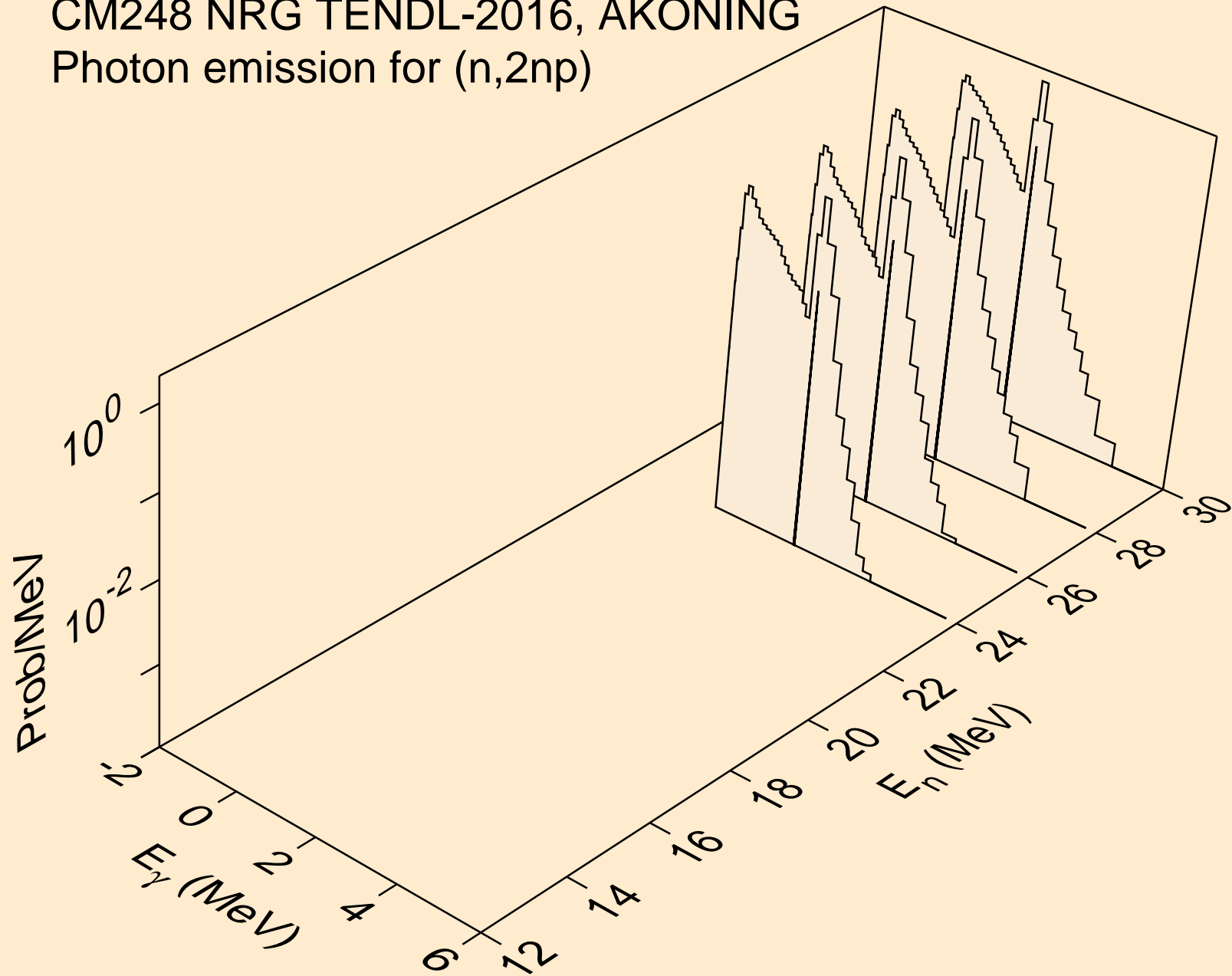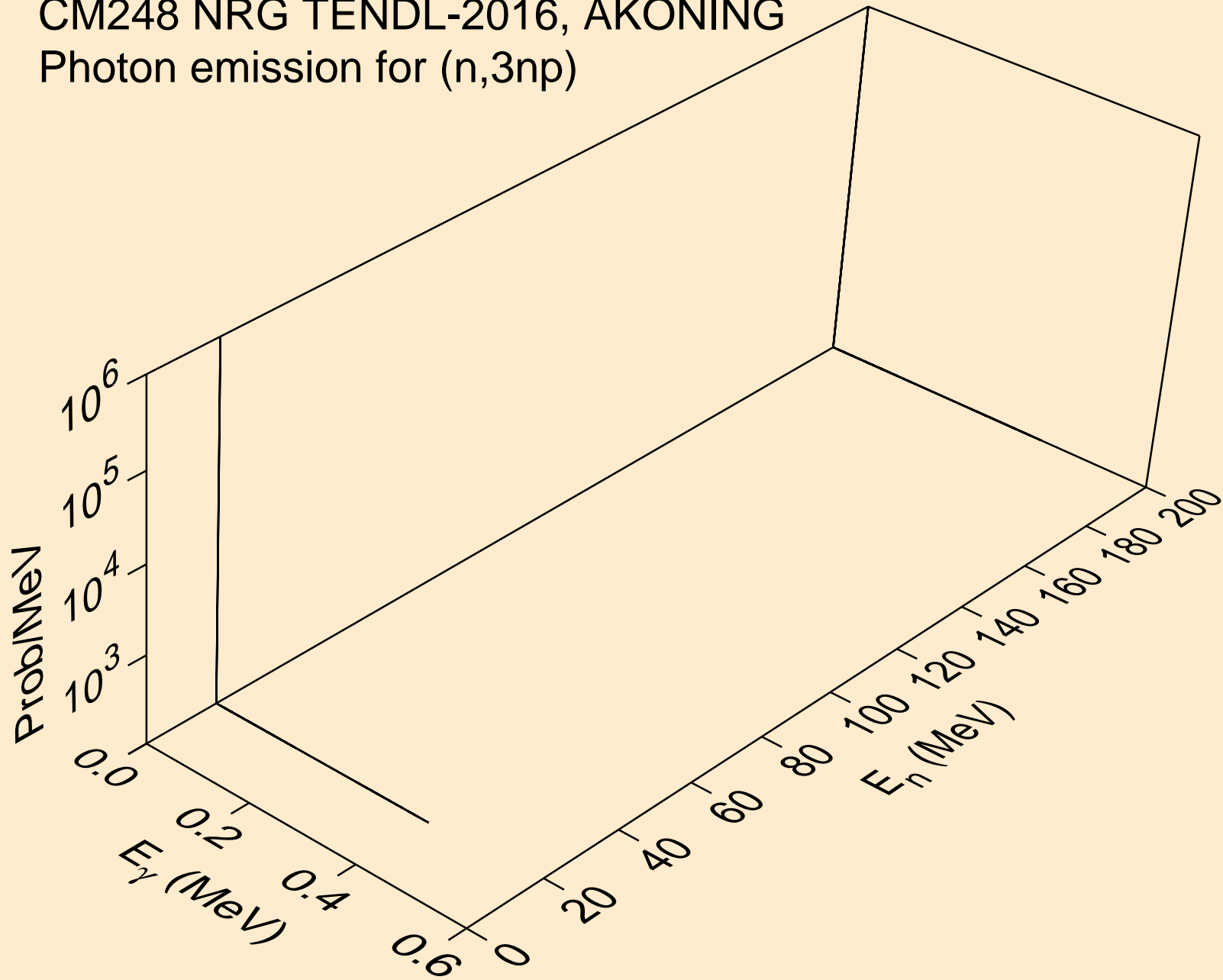
CM248 NRG TENDL-2016, AKONING
Photon emission for (n,n*)p

CM248 NRG TENDL-2016, AKONING
Photon emission for (n,n*)d

CM248 NRG TENDL-2016, AKONING
Photon emission for (n,n*)t

CM248 NRG TENDL-2016, AKONING
Photon emission for (n,n*)he3

CM248 NRG TENDL-2016, AKONING
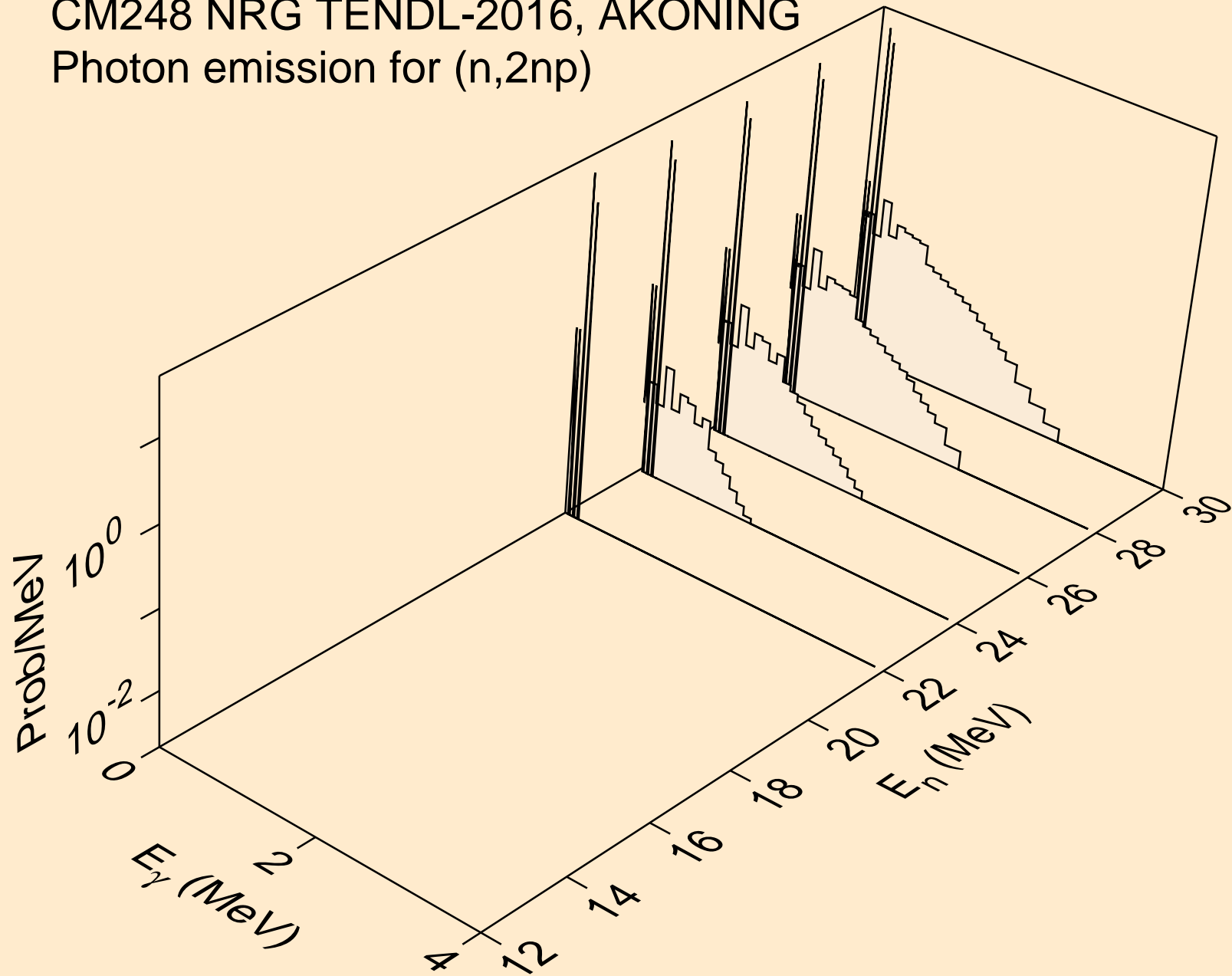Photon emission for (n,4n)

CM248 NRG TENDL-2016, AKONING
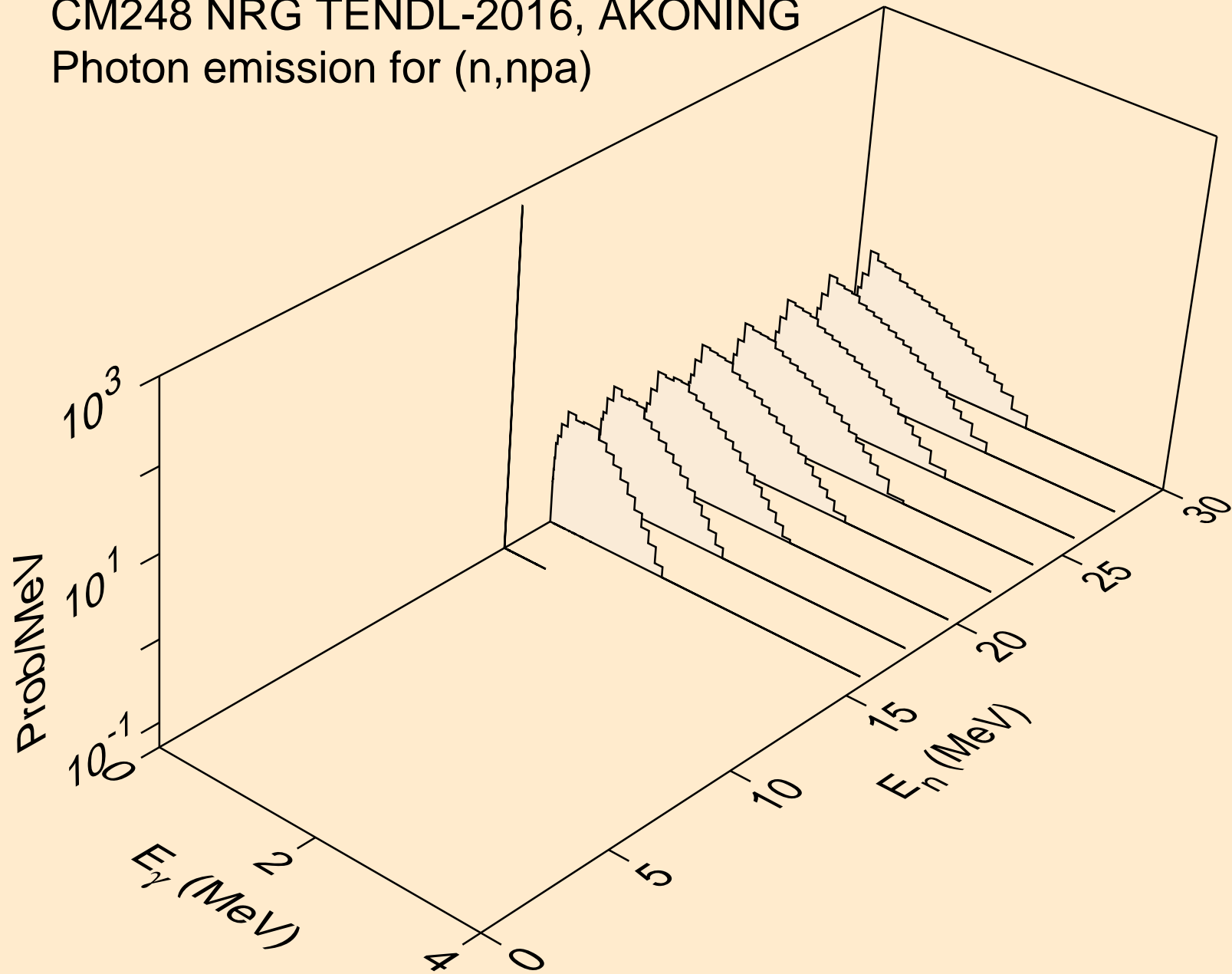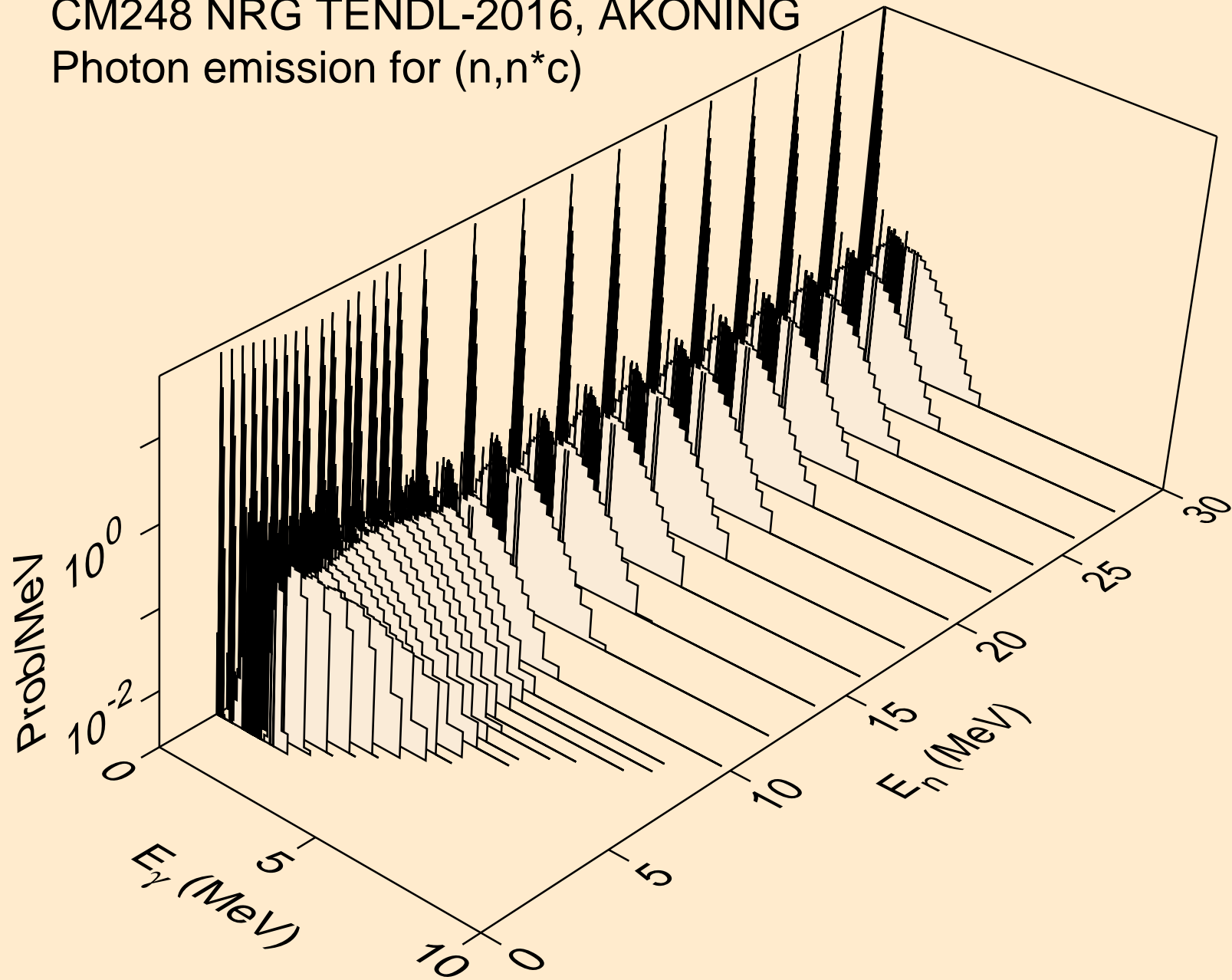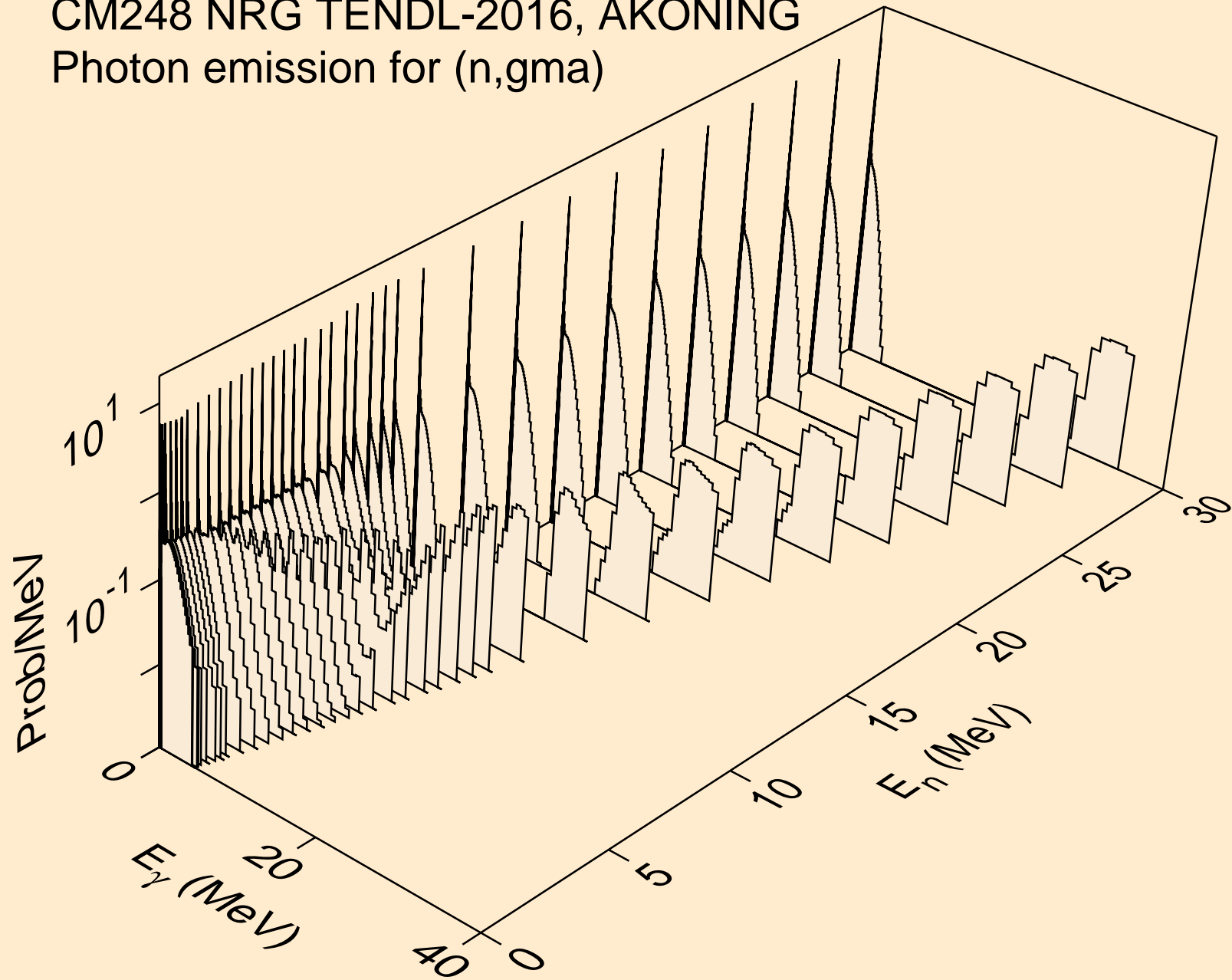Photon emission for (n,2np)

CM248 NRG TENDL-2016, AKONING
Photon emission for (n,3np)

CM248 NRG TENDL-2016, AKONING
Photon emission for (n,2np)

CM248 NRG TENDL-2016, AKONING
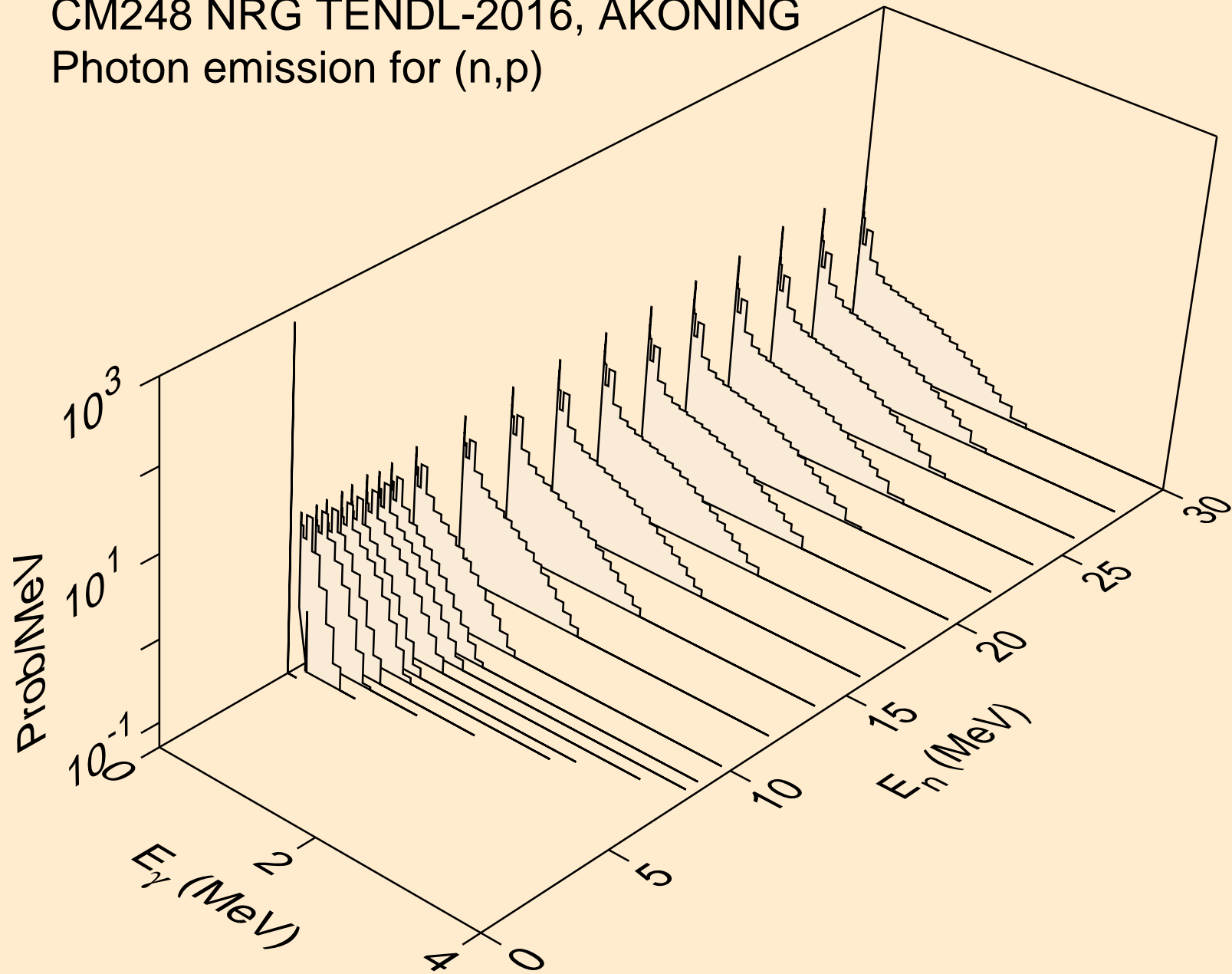Photon emission for (n,npa)

CM248 NRG TENDL-2016, AKONING
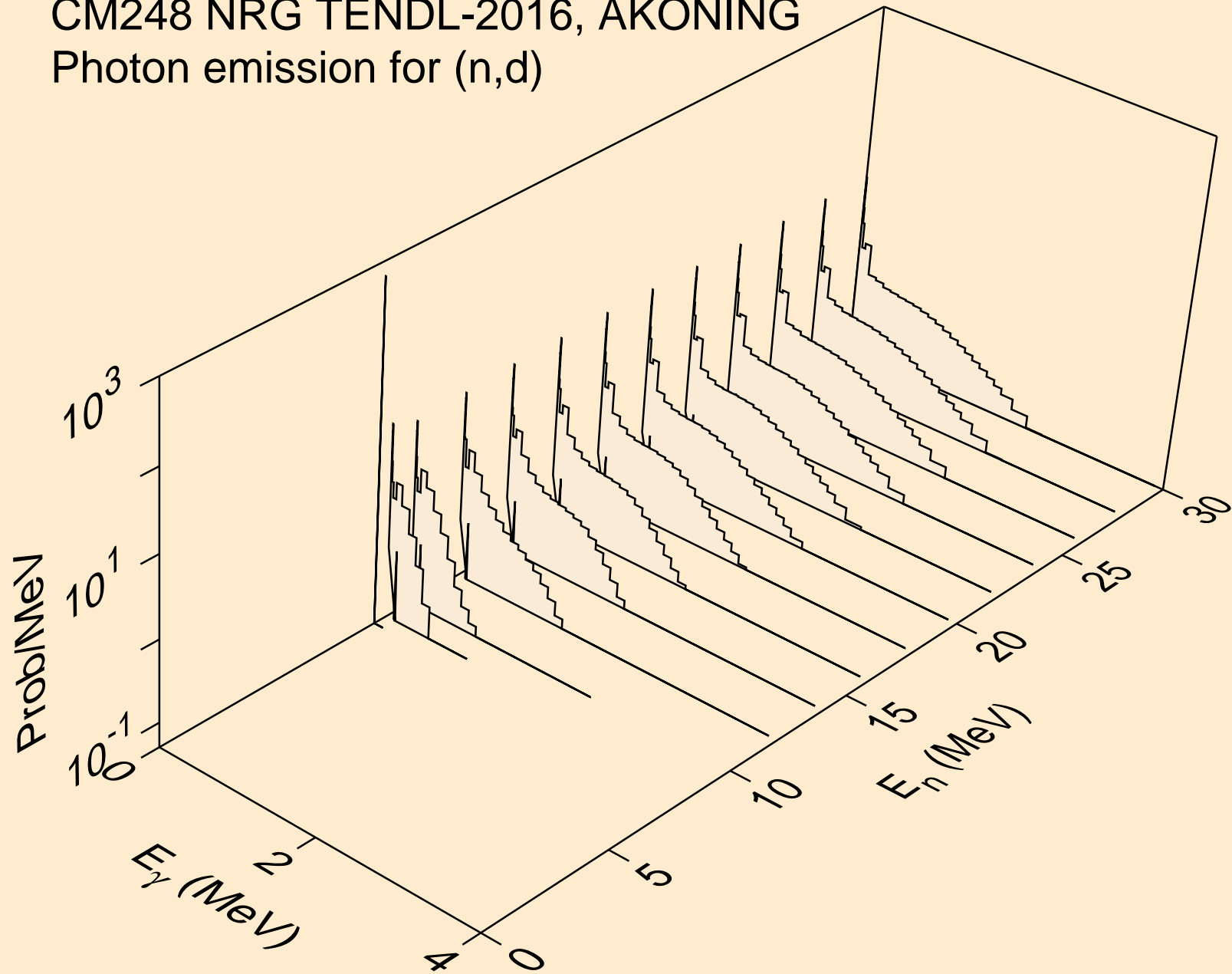Photon emission for (n,n*c)
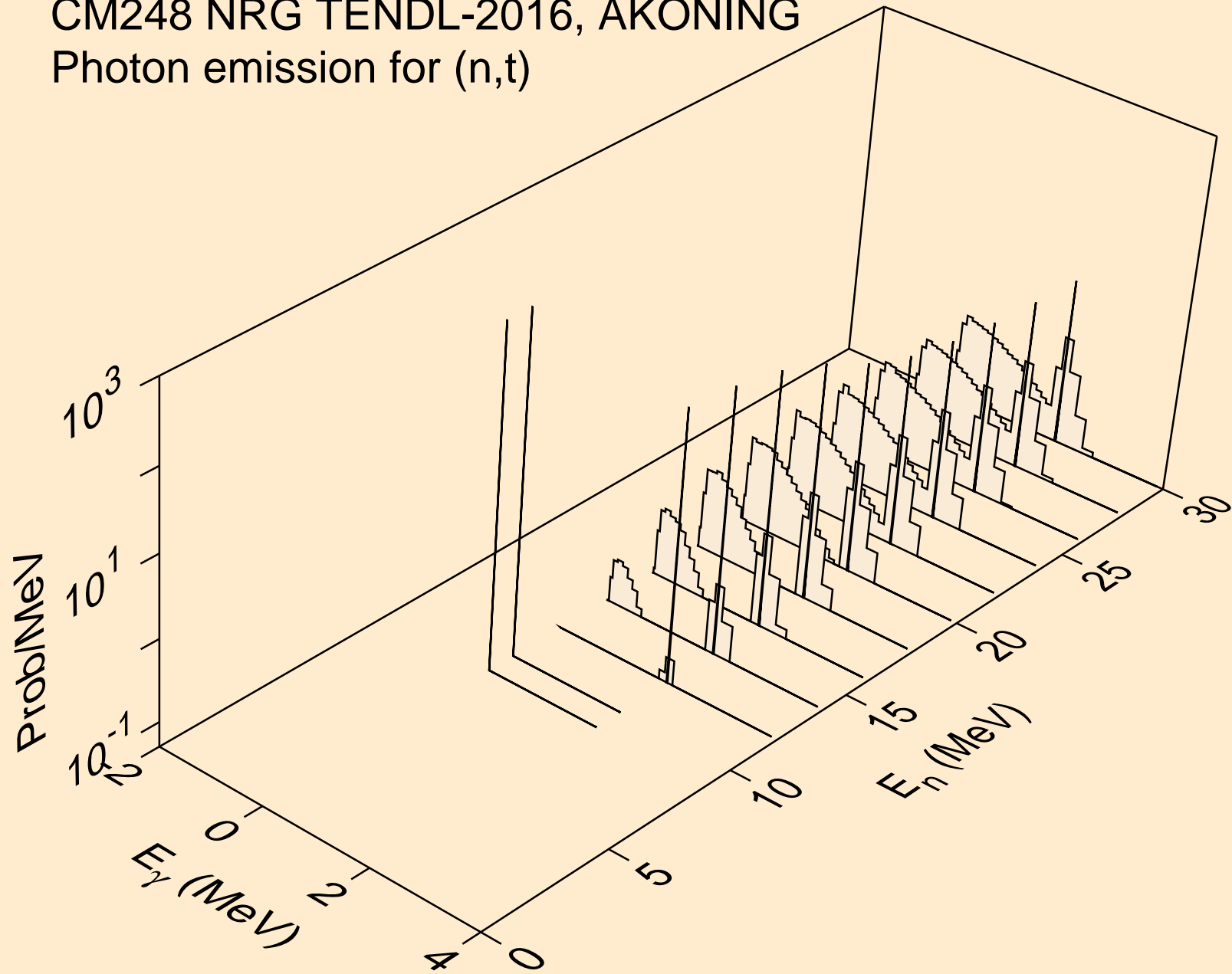
CM248 NRG TENDL-2016, AKONING
Photon emission for (n,gma)
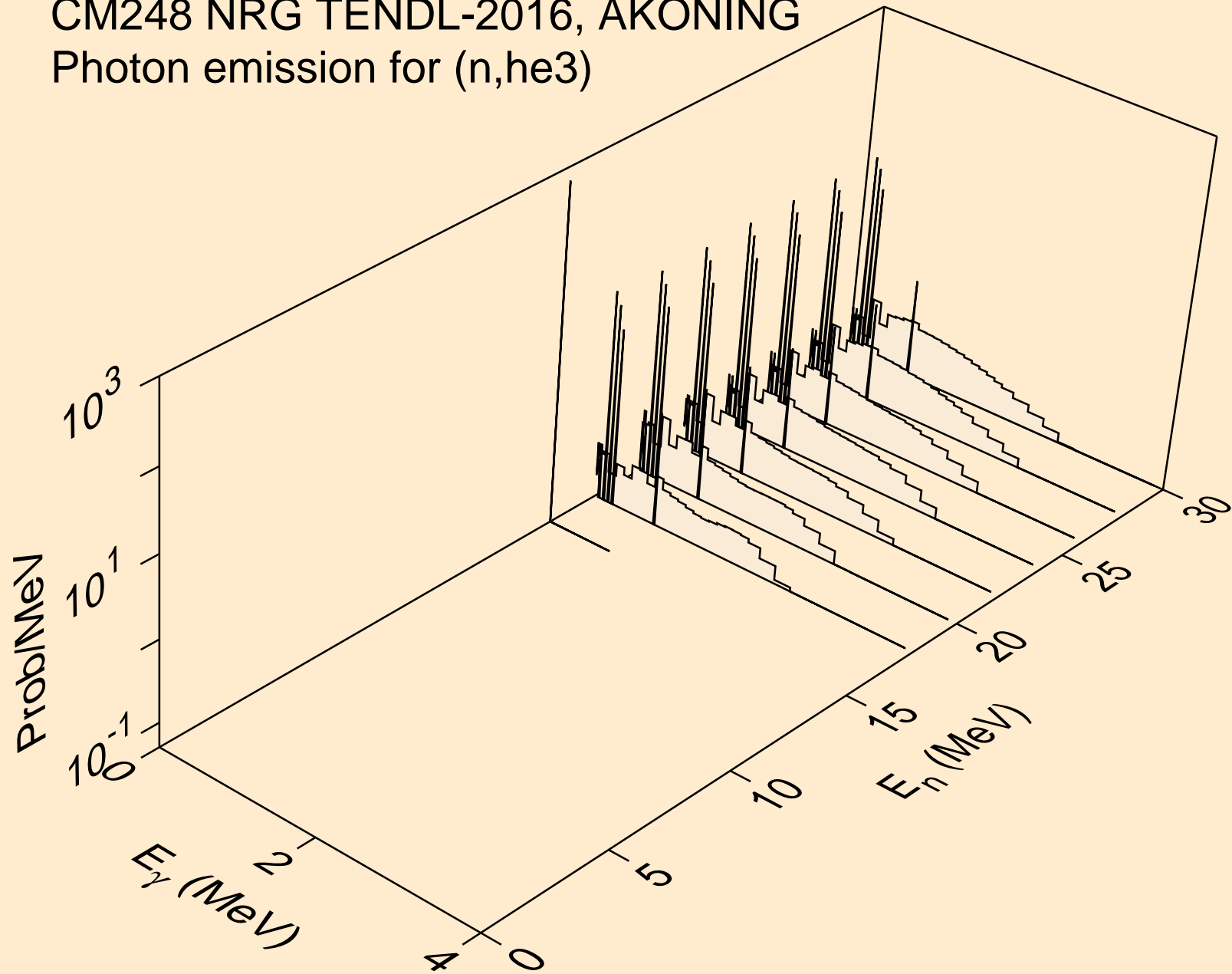
CM248 NRG TENDL-2016, AKONING
Photon emission for (n,p)
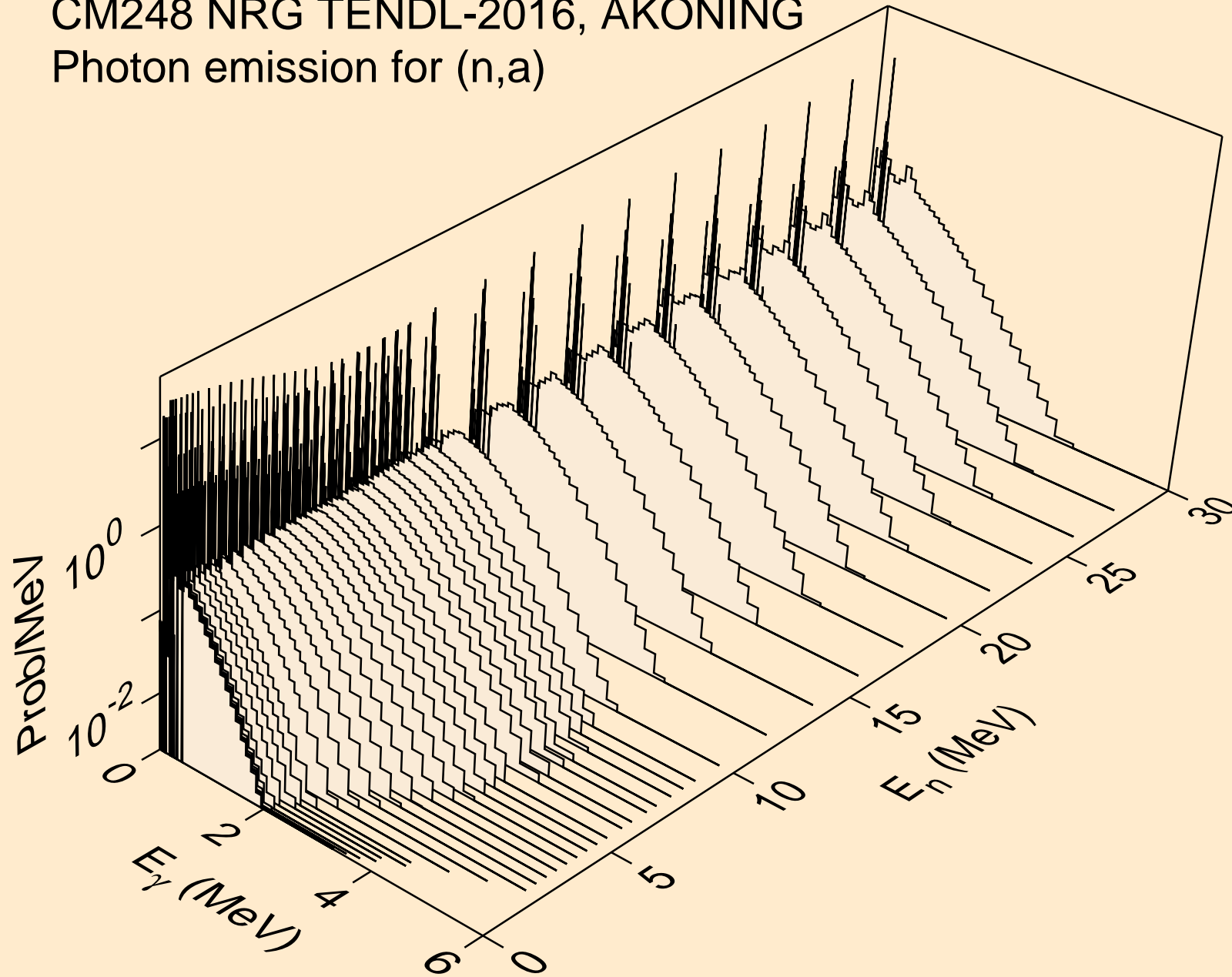
CM248 NRG TENDL-2016, AKONING
Photon emission for (n,d)

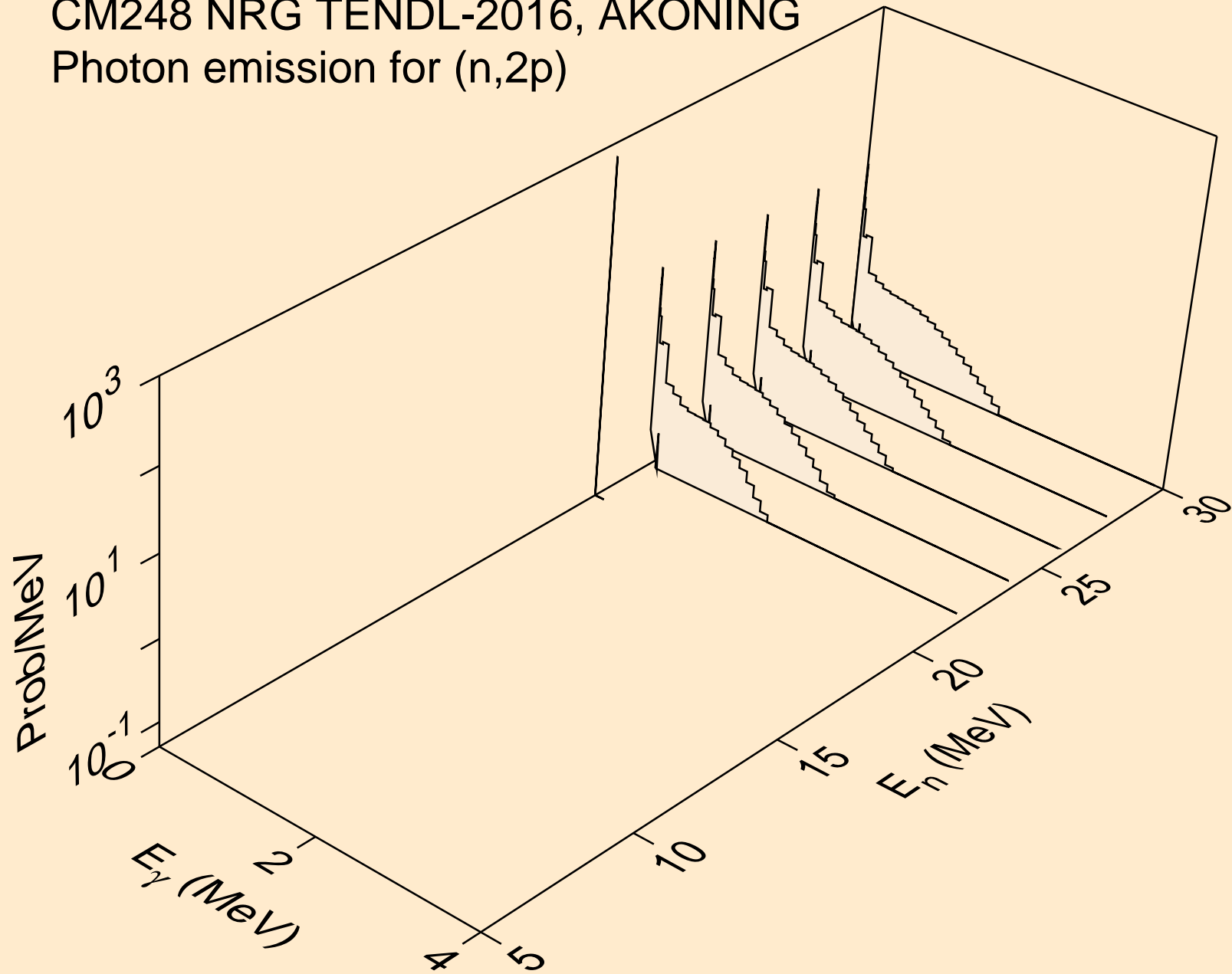CM248 NRG TENDL-2016, AKONING
Photon emission for (n,t)

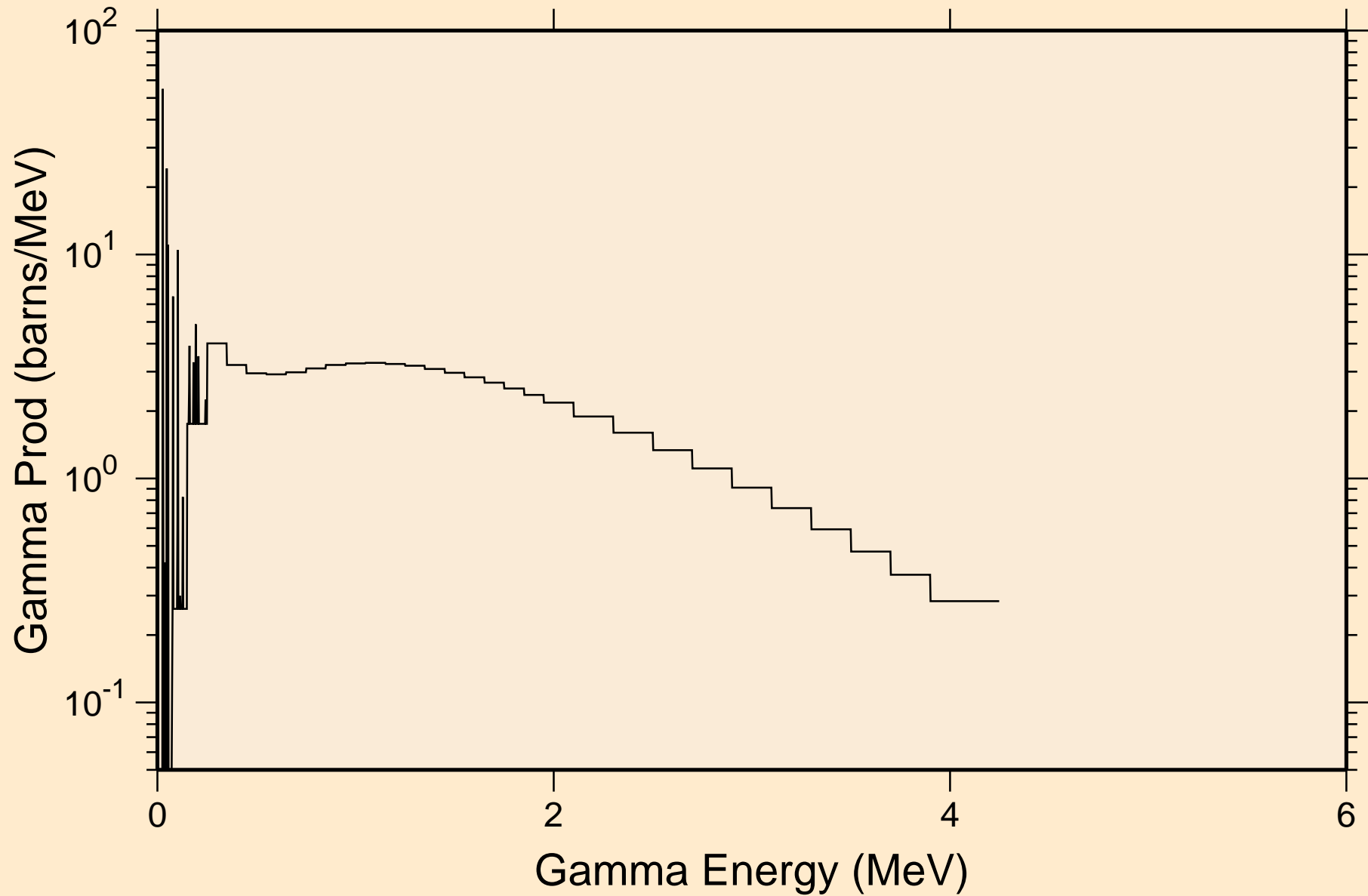CM248 NRG TENDL-2016, AKONING
Photon emission for (n,he3)

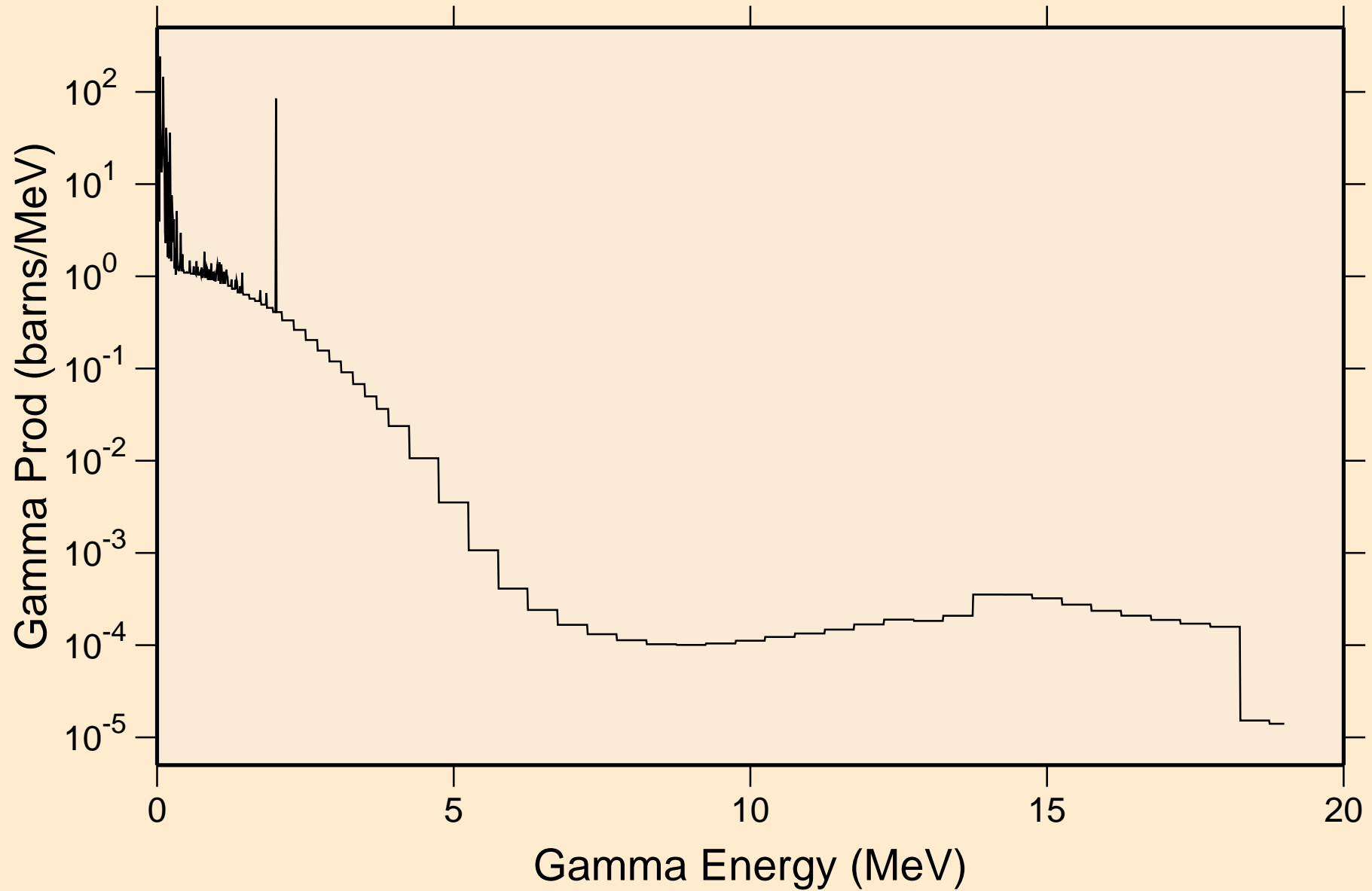CM248 NRG TENDL-2016, AKONING
Photon emission for (n,a)

CM248 NRG TENDL-2016, AKONING
Photon emission for (n,2p)

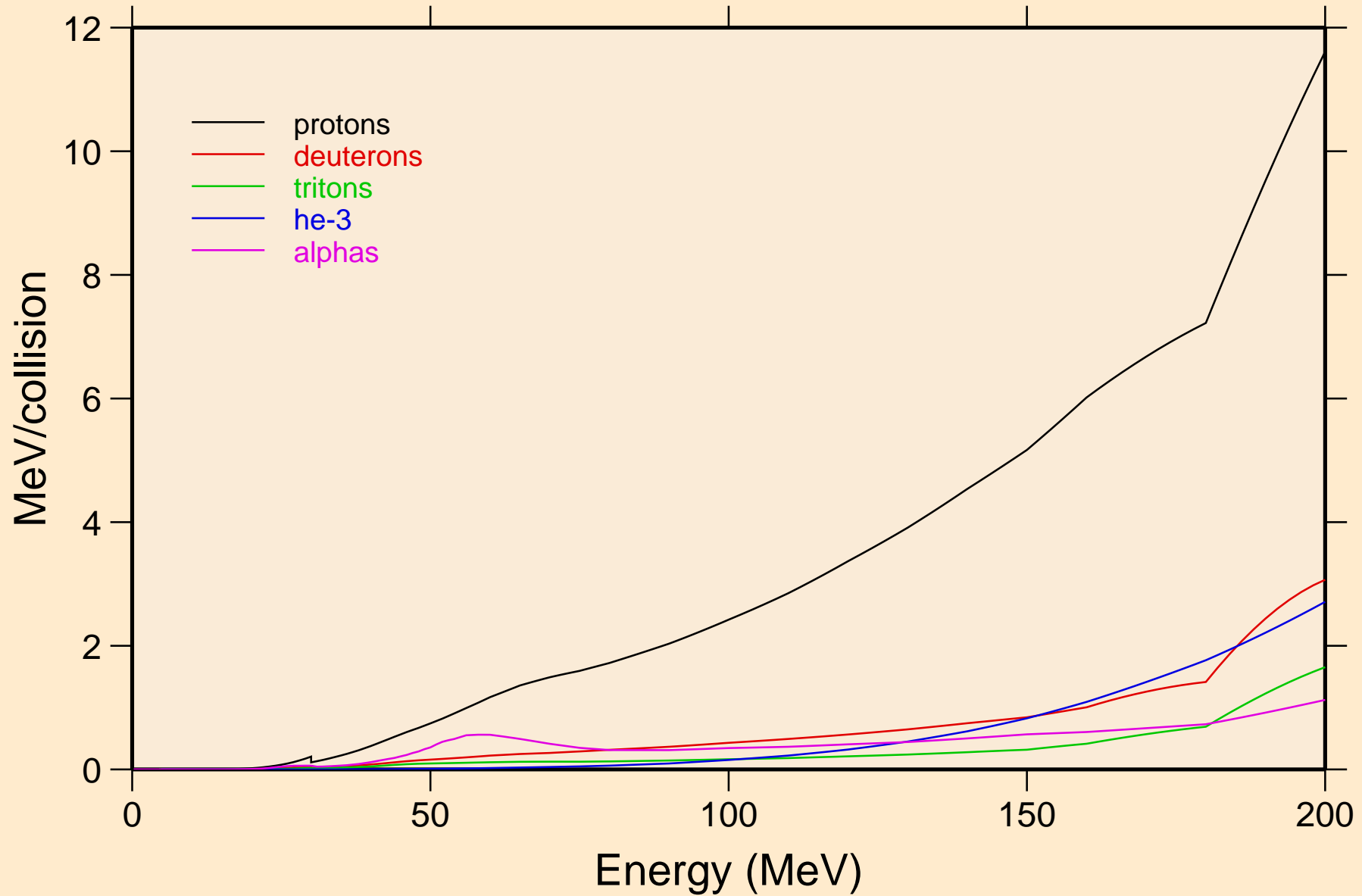CM248 NRG TENDL-2016, AKONING
thermal capture photon spectrum
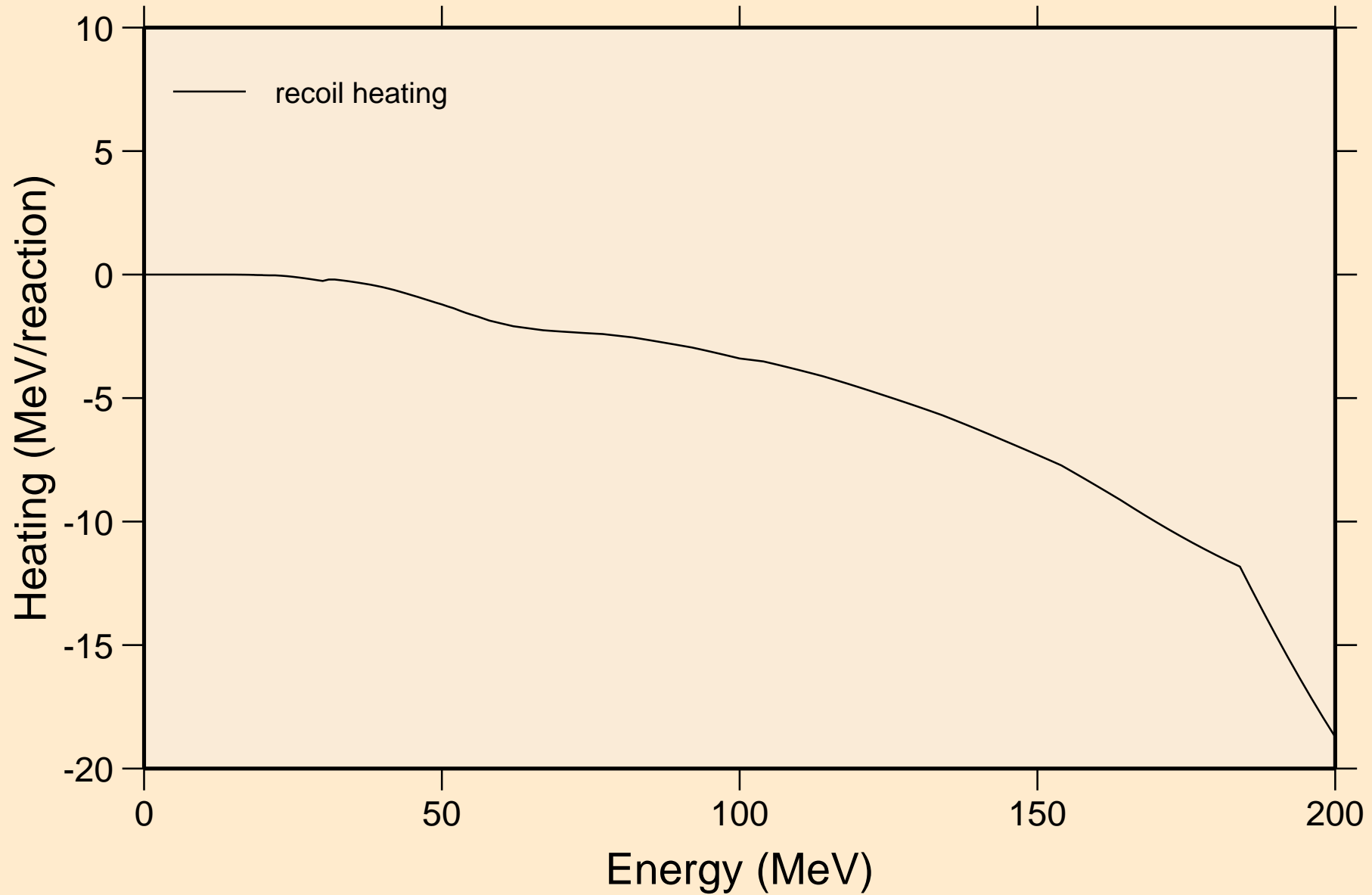
CM248 NRG TENDL-2016, AKONING
14 MeV photon spectrum

CM248 NRG TENDL-2016, AKONING
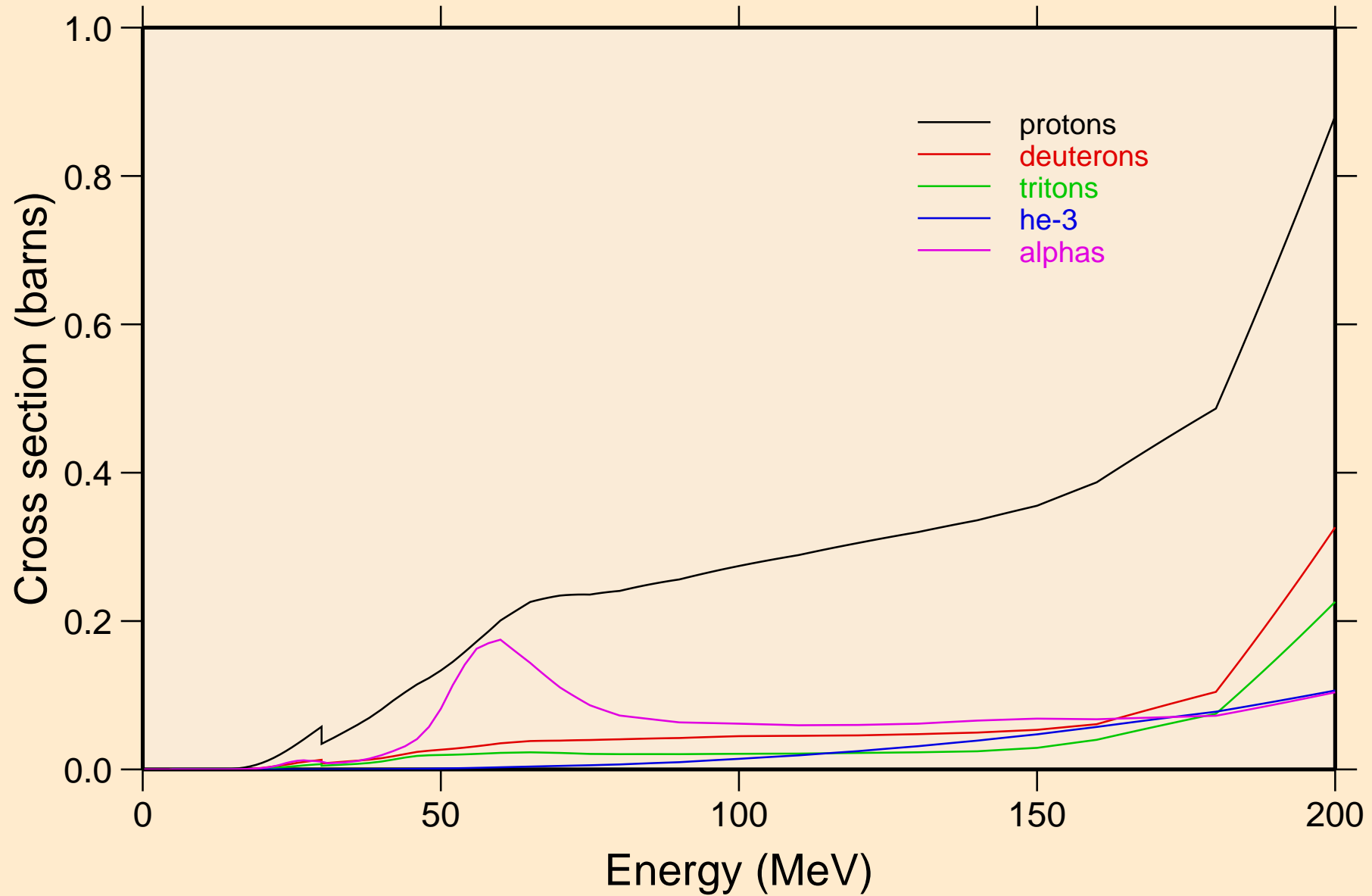Particle heating contributions
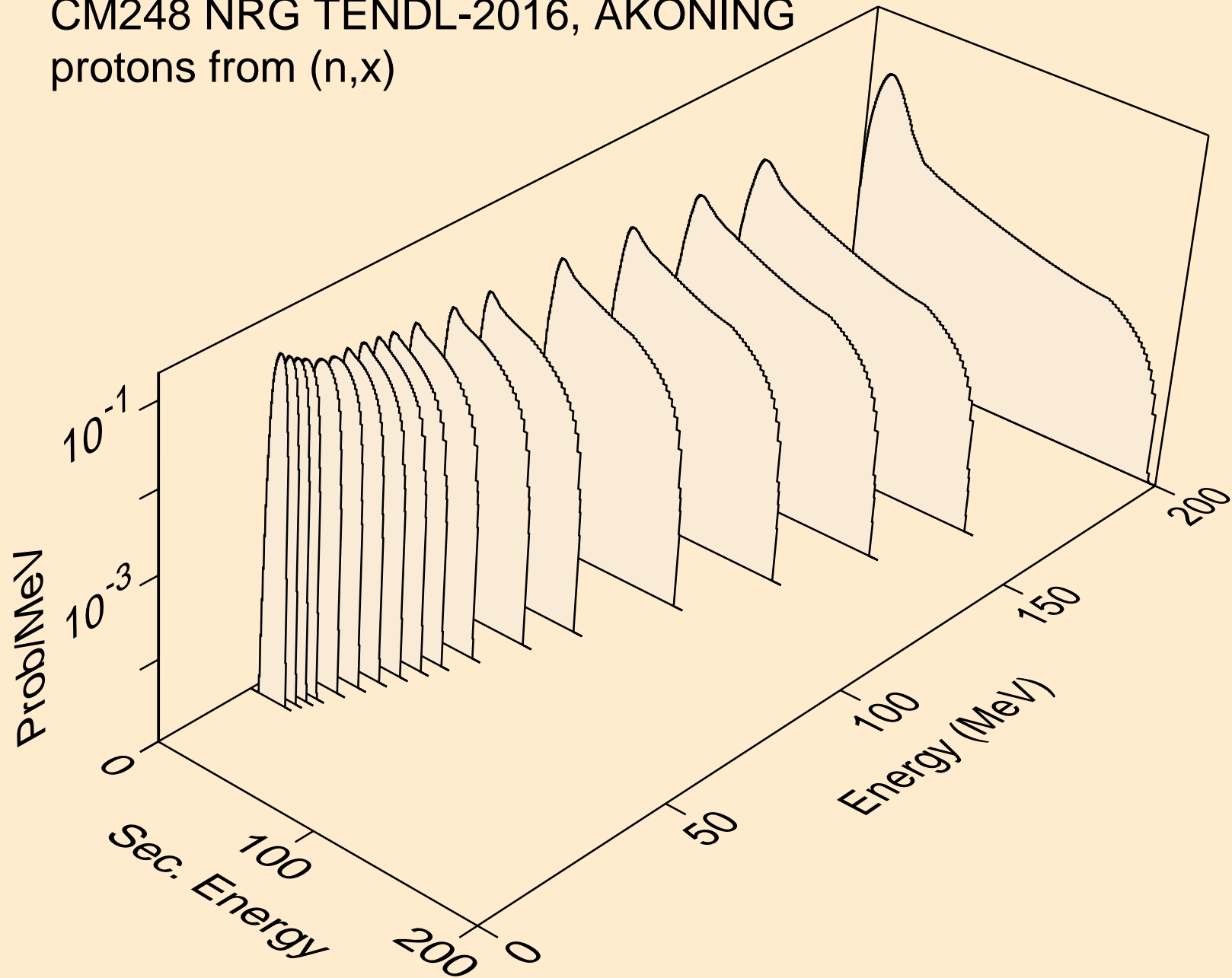
CM248 NRG TENDL-2016, AKONING
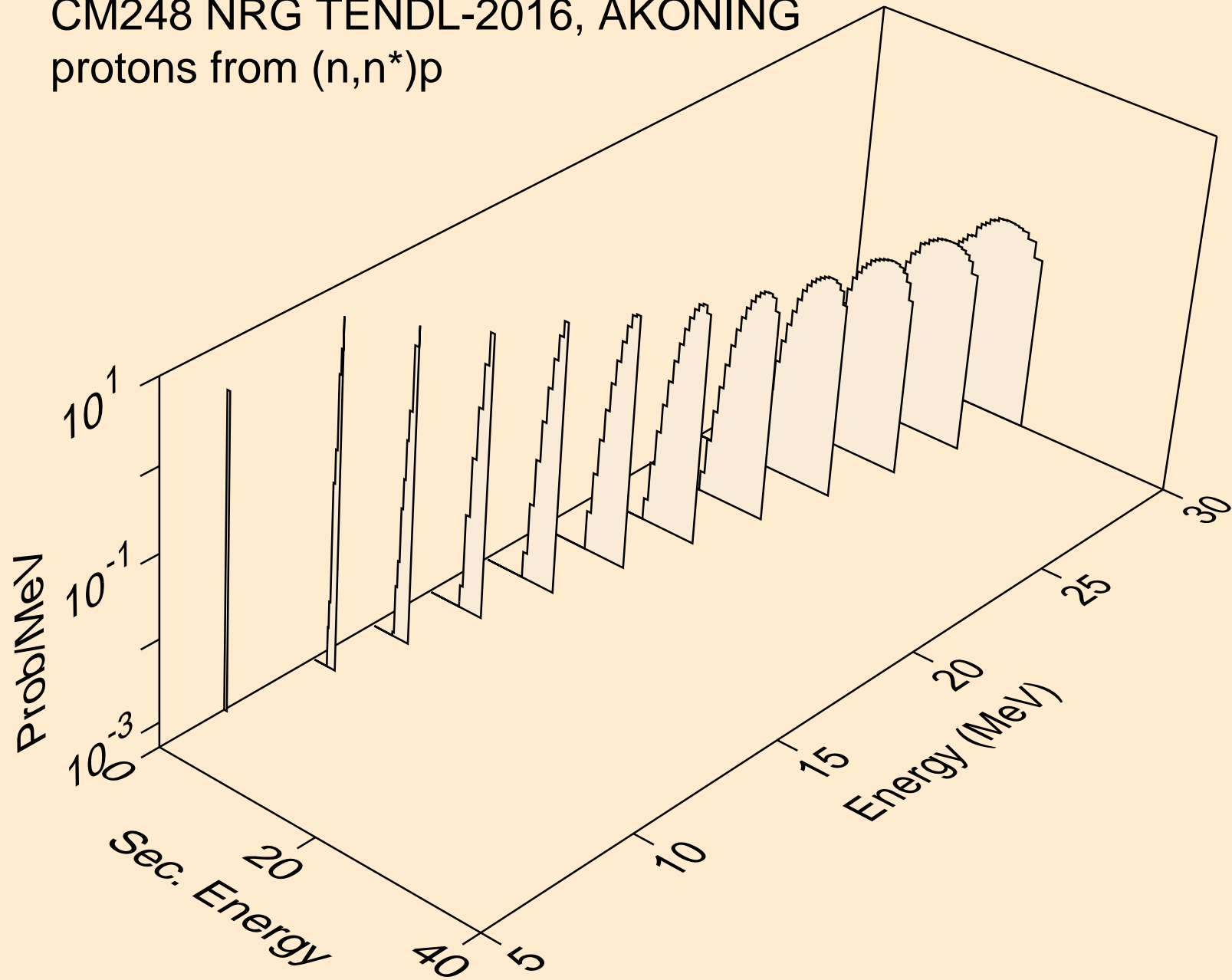Recoil Heating

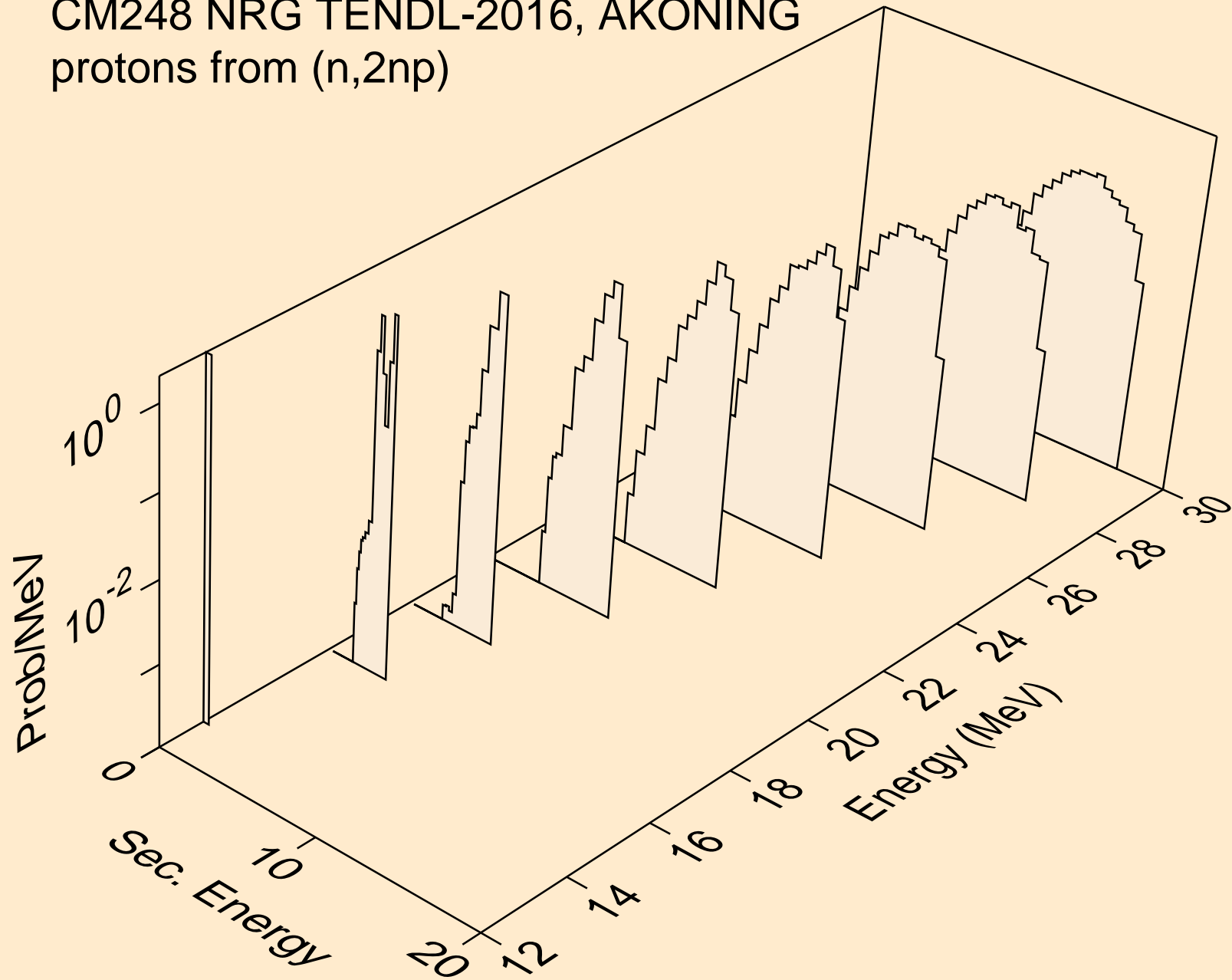CM248 NRG TENDL-2016, AKONING
Particle production cross sections
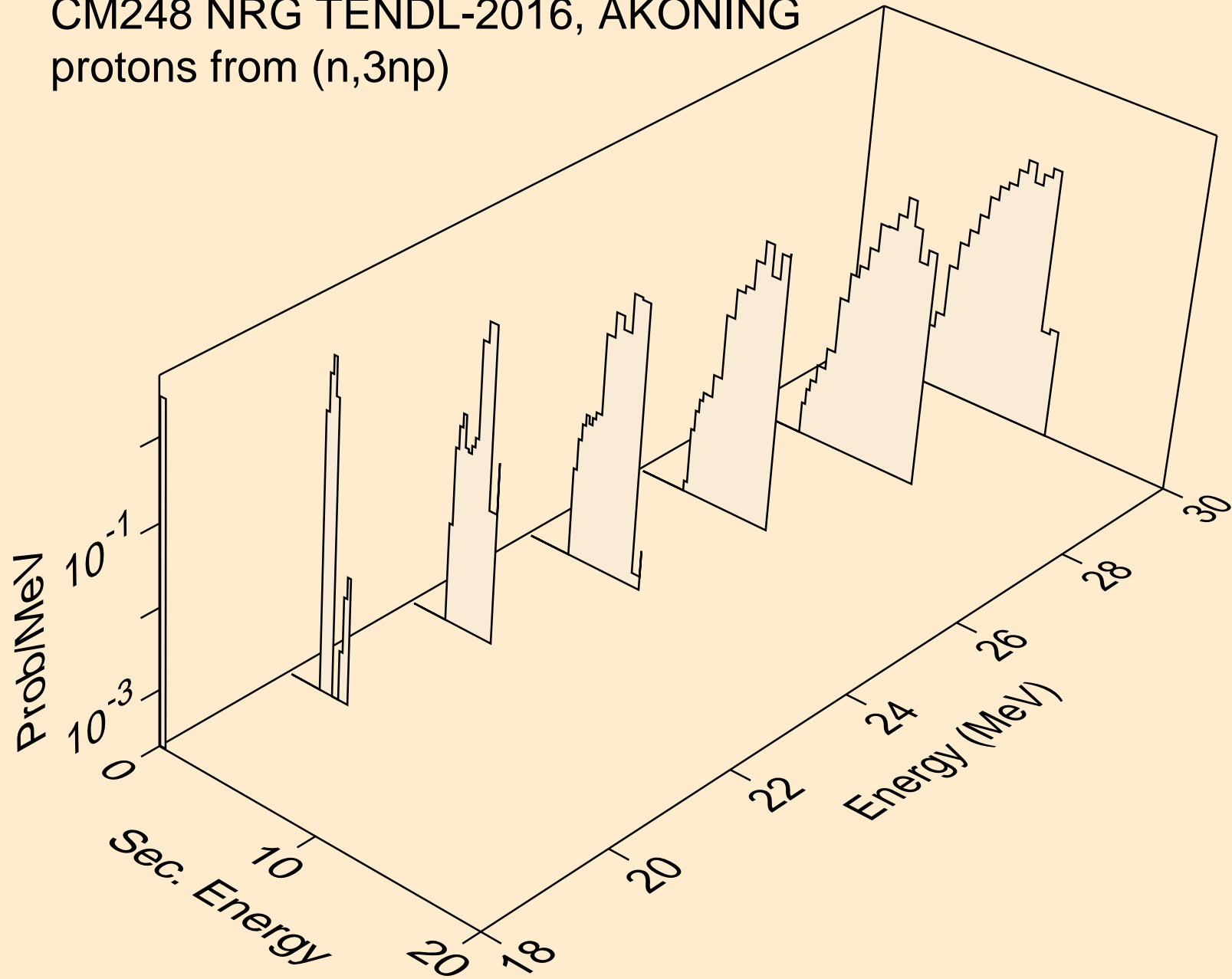
CM248 NRG TENDL-2016, AKONING
protons from (n,x)

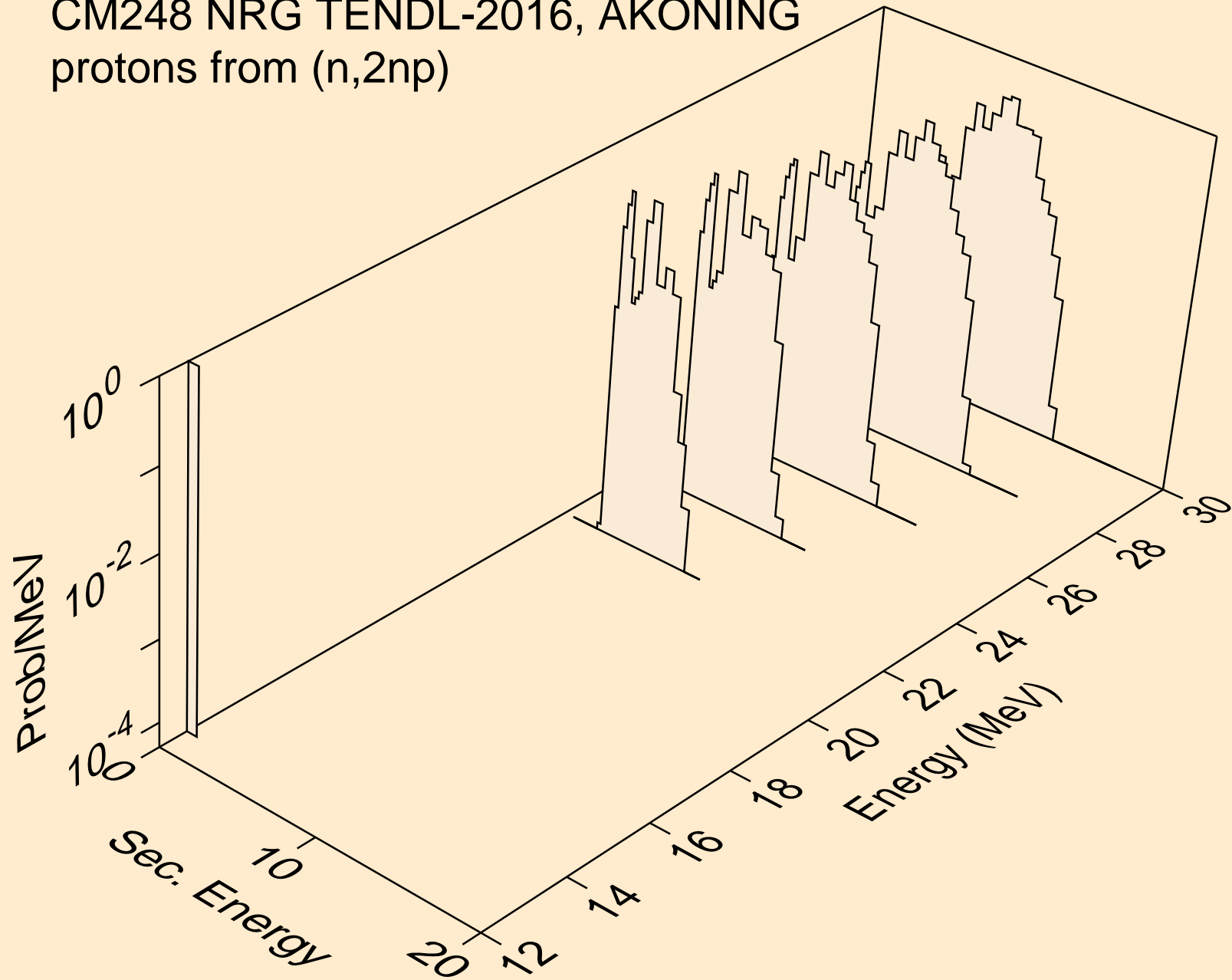CM248 NRG TENDL-2016, AKONING
protons from (n,n*)p

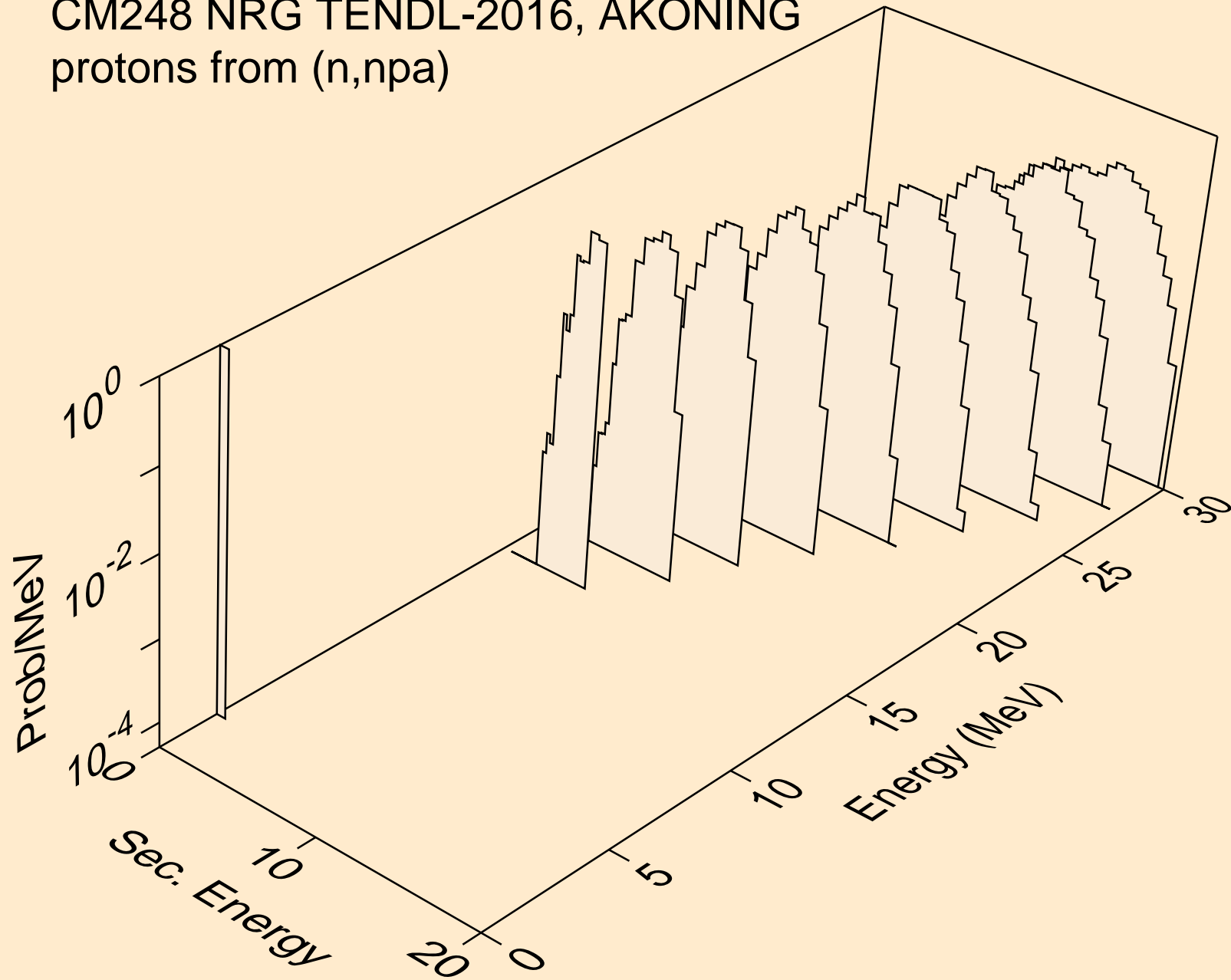CM248 NRG TENDL-2016, AKONING
protons from (n,2np)

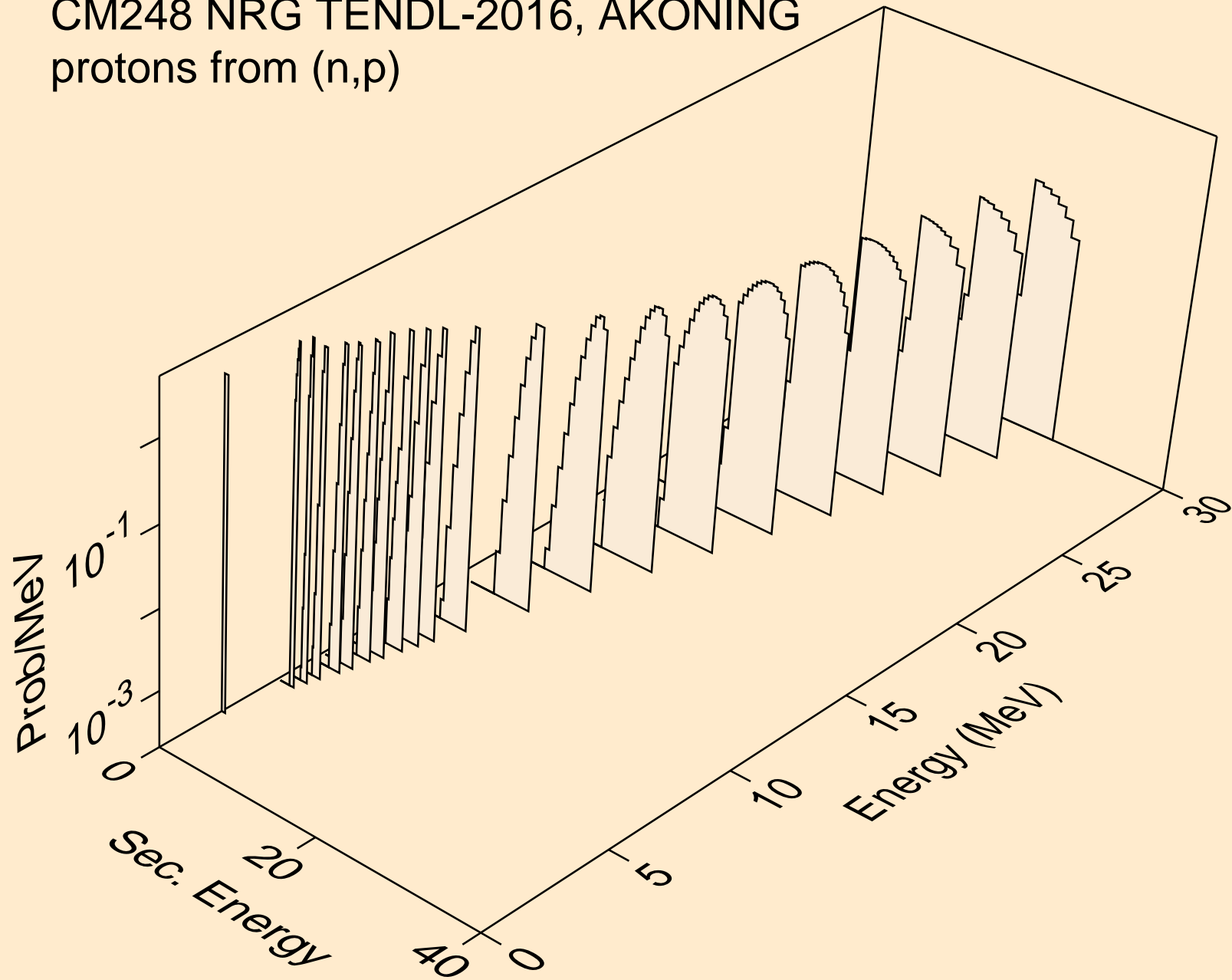CM248 NRG TENDL-2016, AKONING
protons from (n,3np)

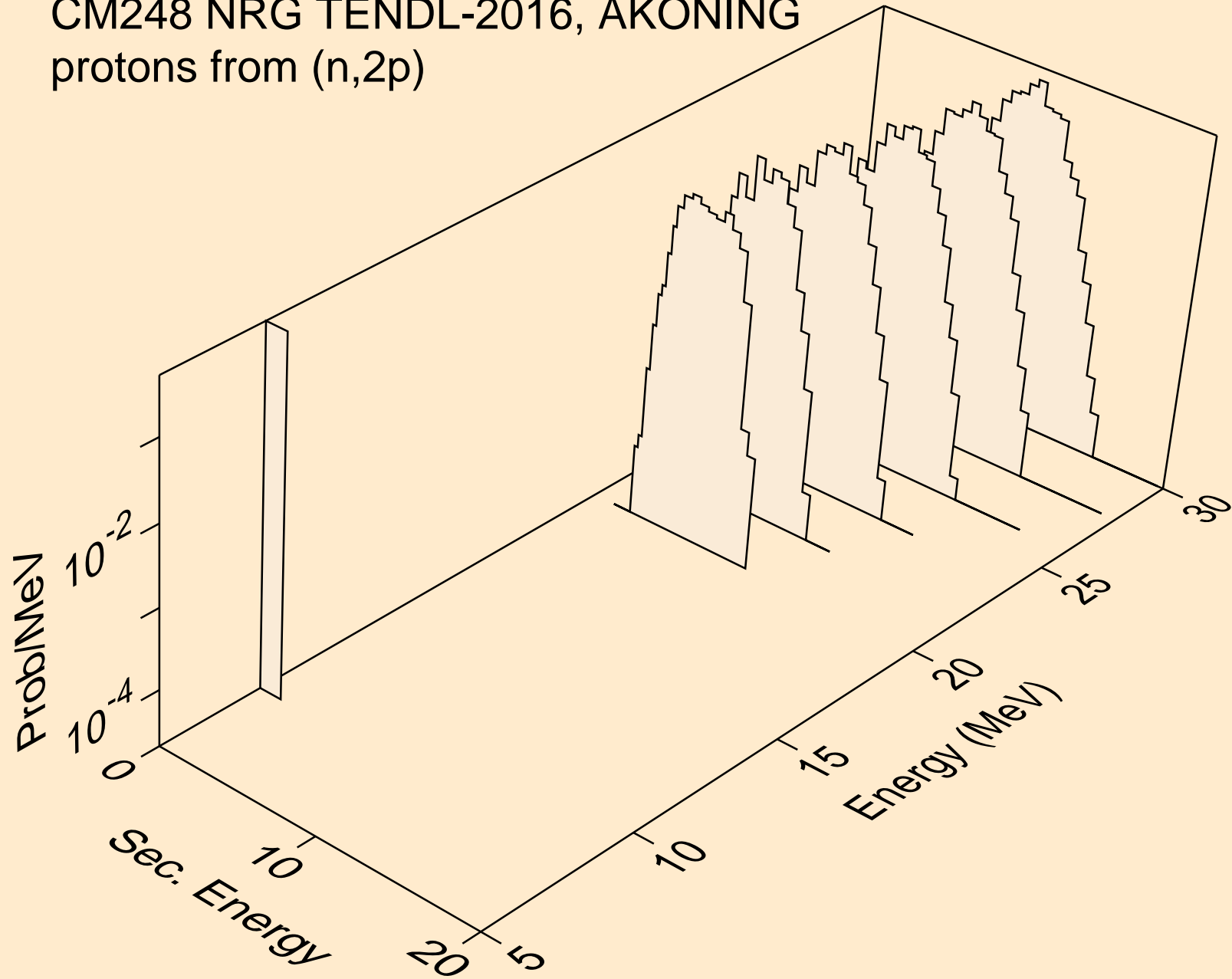CM248 NRG TENDL-2016, AKONING
protons from (n,2np)

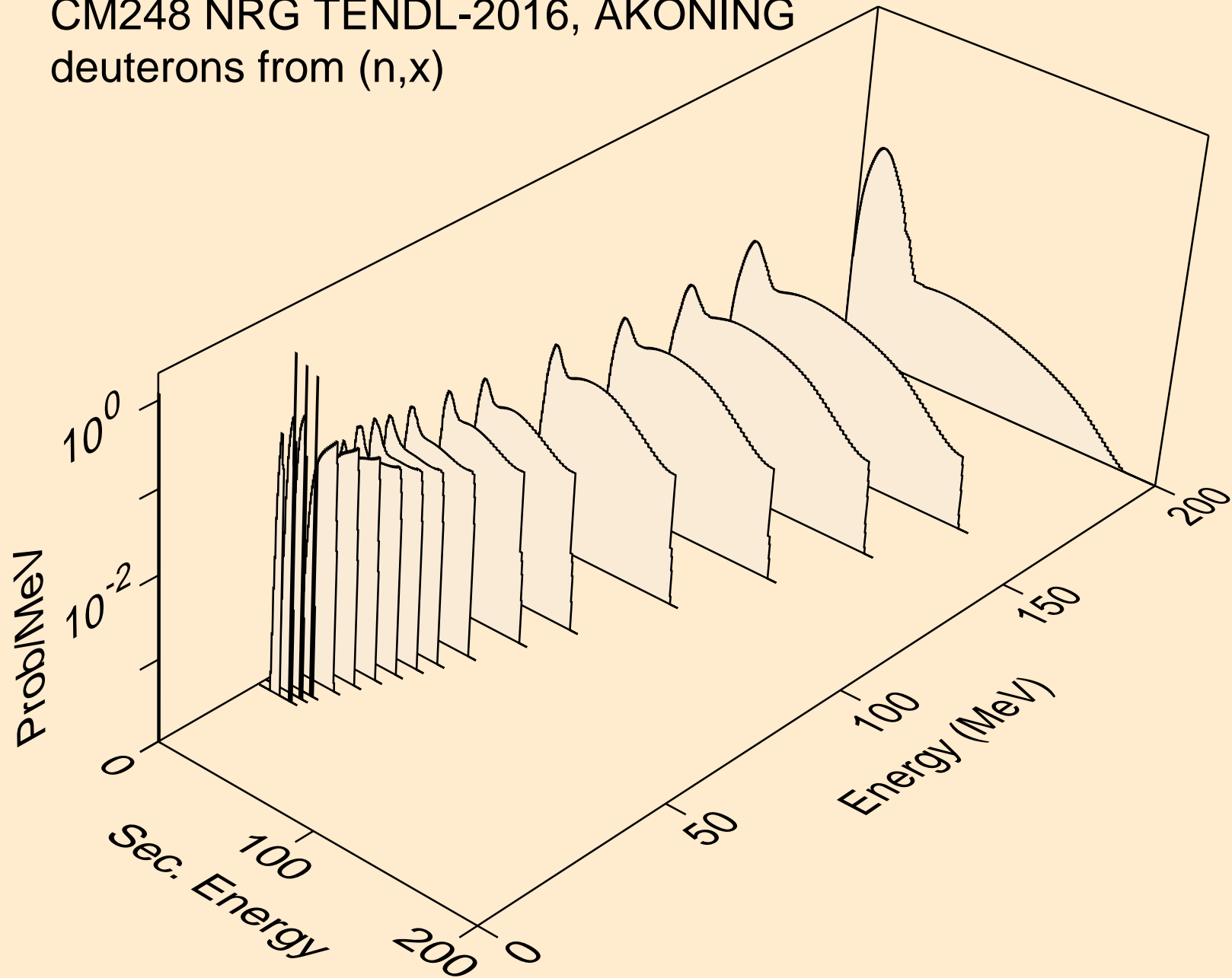CM248 NRG TENDL-2016, AKONING
protons from (n,npa)

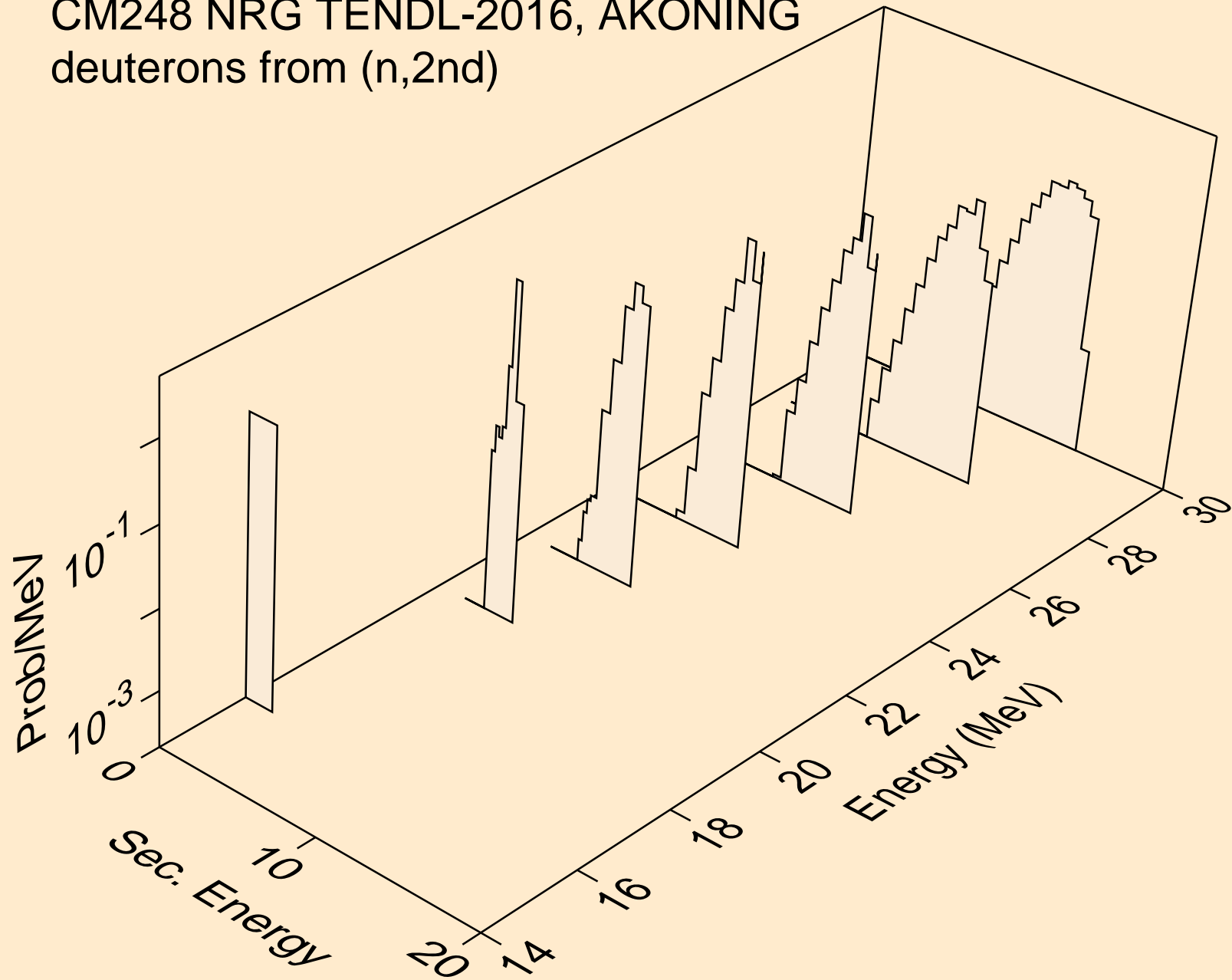CM248 NRG TENDL-2016, AKONING
protons from (n,p)

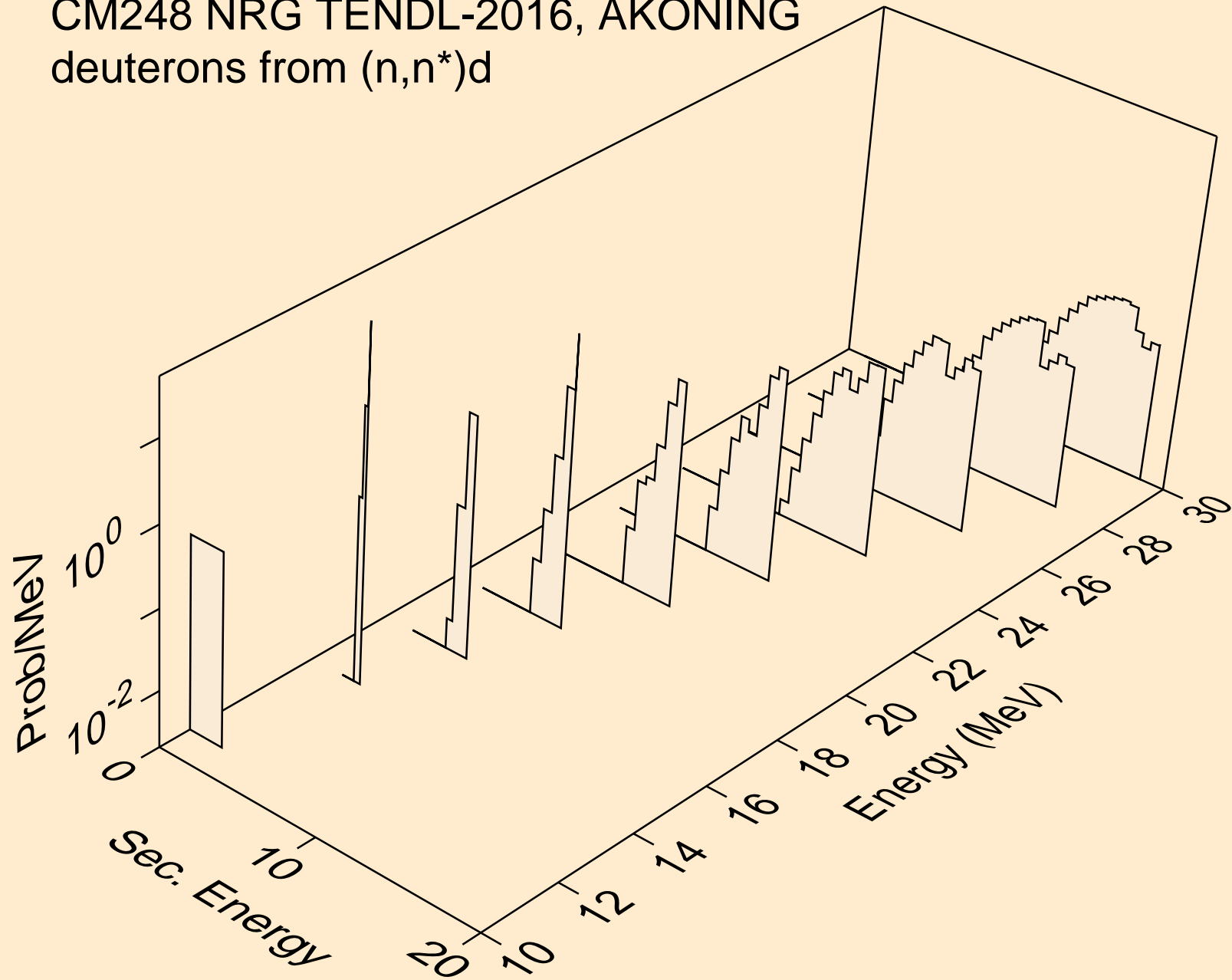CM248 NRG TENDL-2016, AKONING
protons from (n,2p)

CM248 NRG TENDL-2016, AKONING
deuterons from (n,x)

ProbMeV
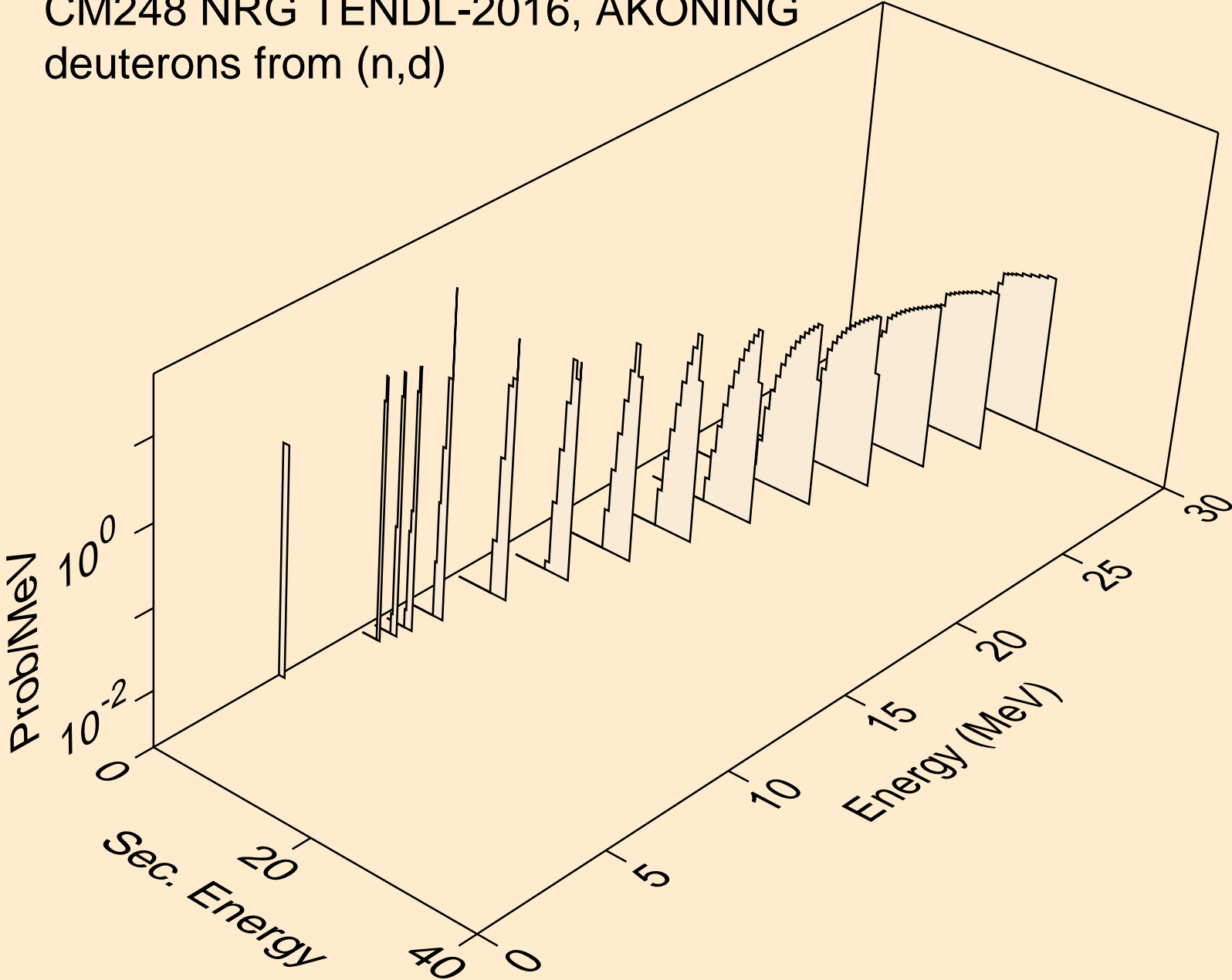
Sec. Energy

Energy (MeV)

CM248 NRG TENDL-2016, AKONING
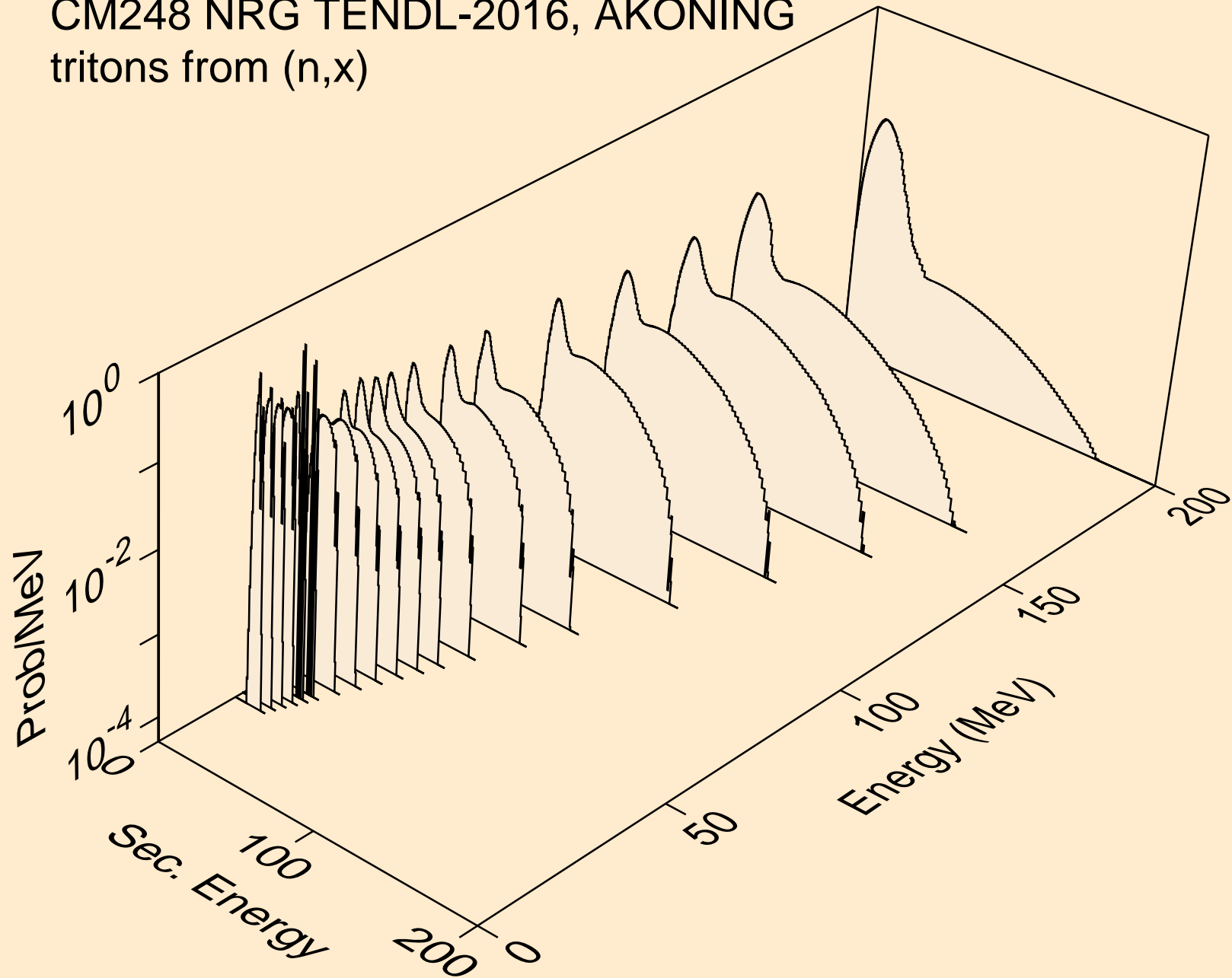deuterons from (n,2nd)
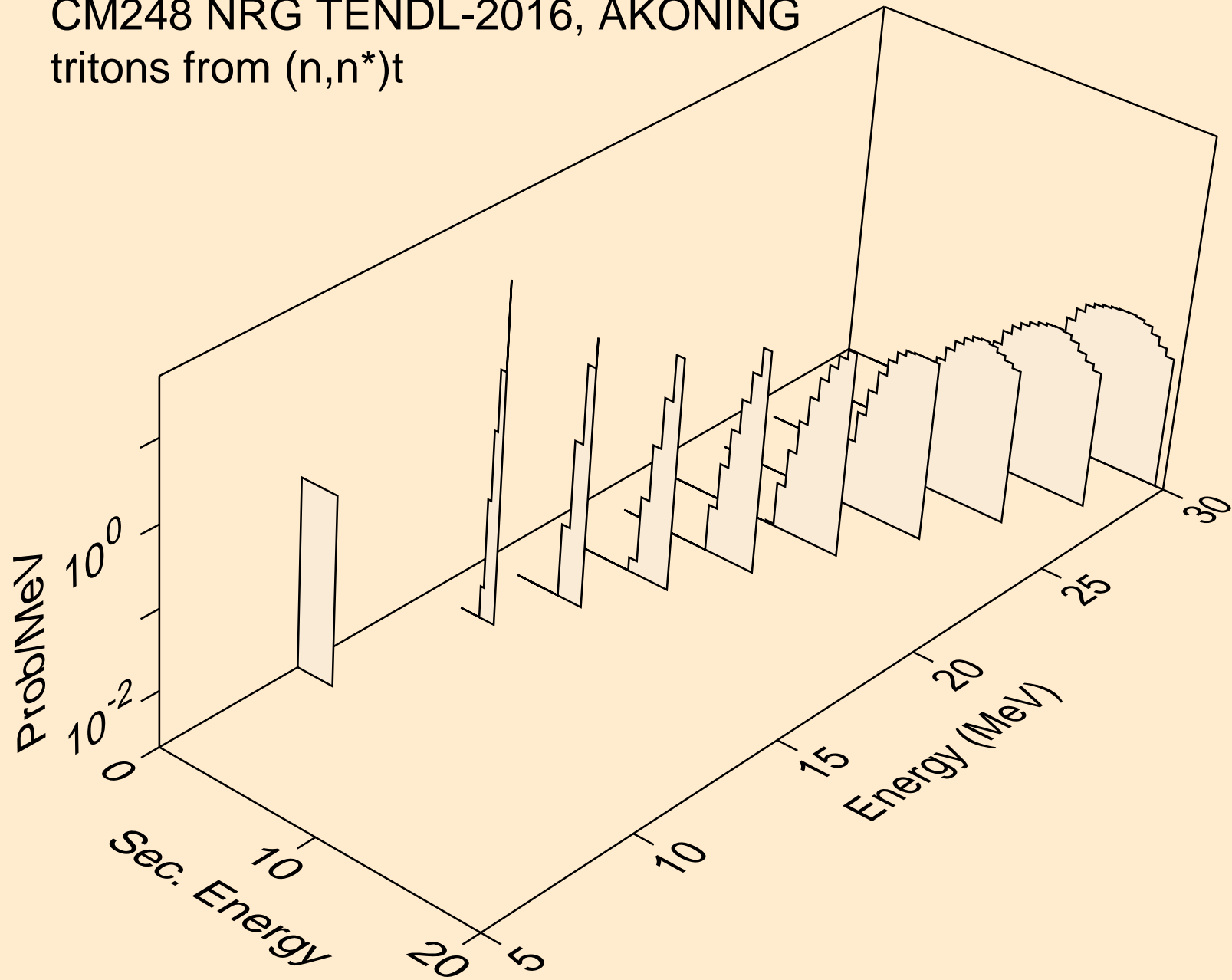
CM248 NRG TENDL-2016, AKONING
deuterons from (n,n*)d
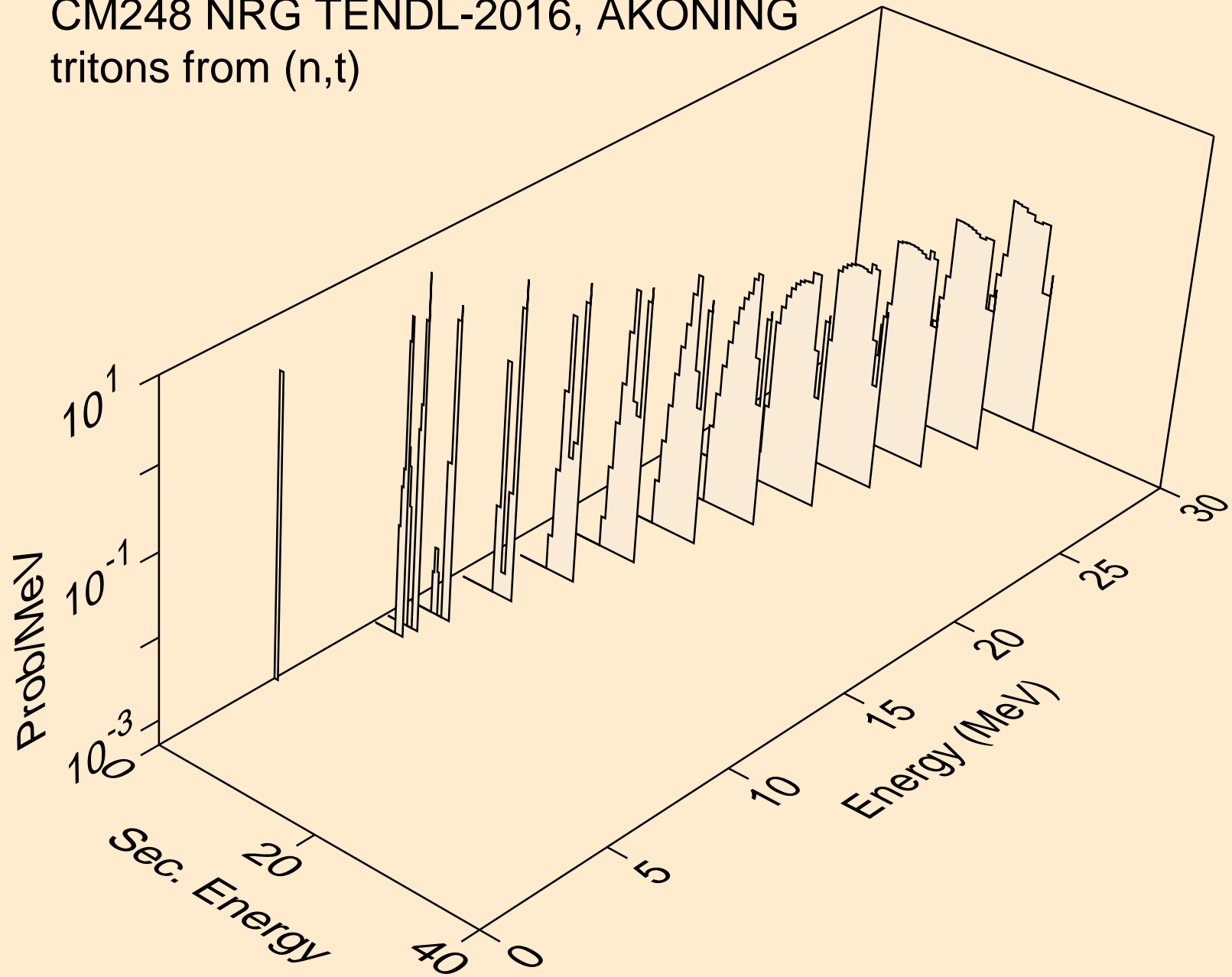
CM248 NRG TENDL-2016, AKONING
deuterons from (n,d)

CM248 NRG TENDL-2016, AKONING
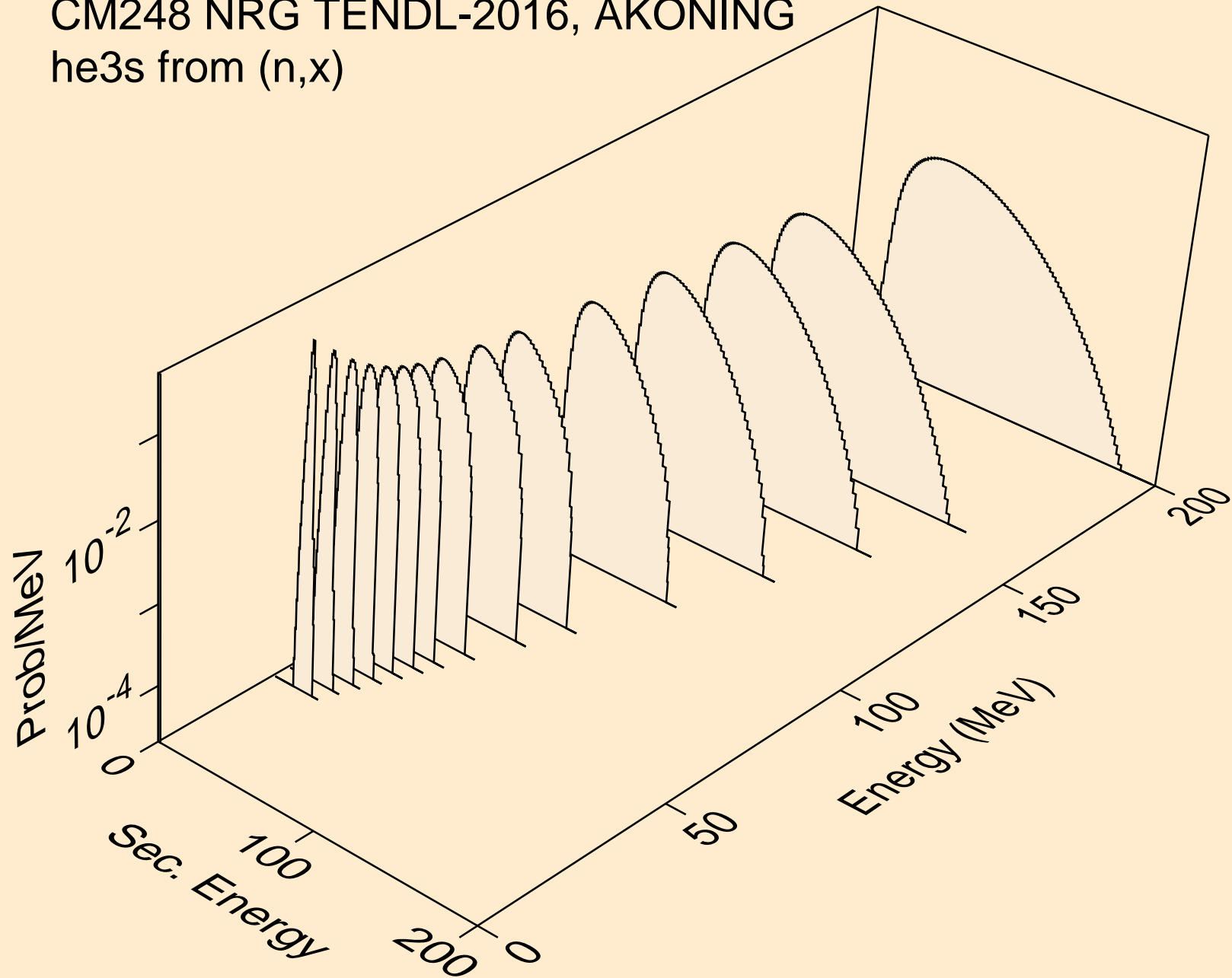tritons from (n,x)

CM248 NRG TENDL-2016, AKONING
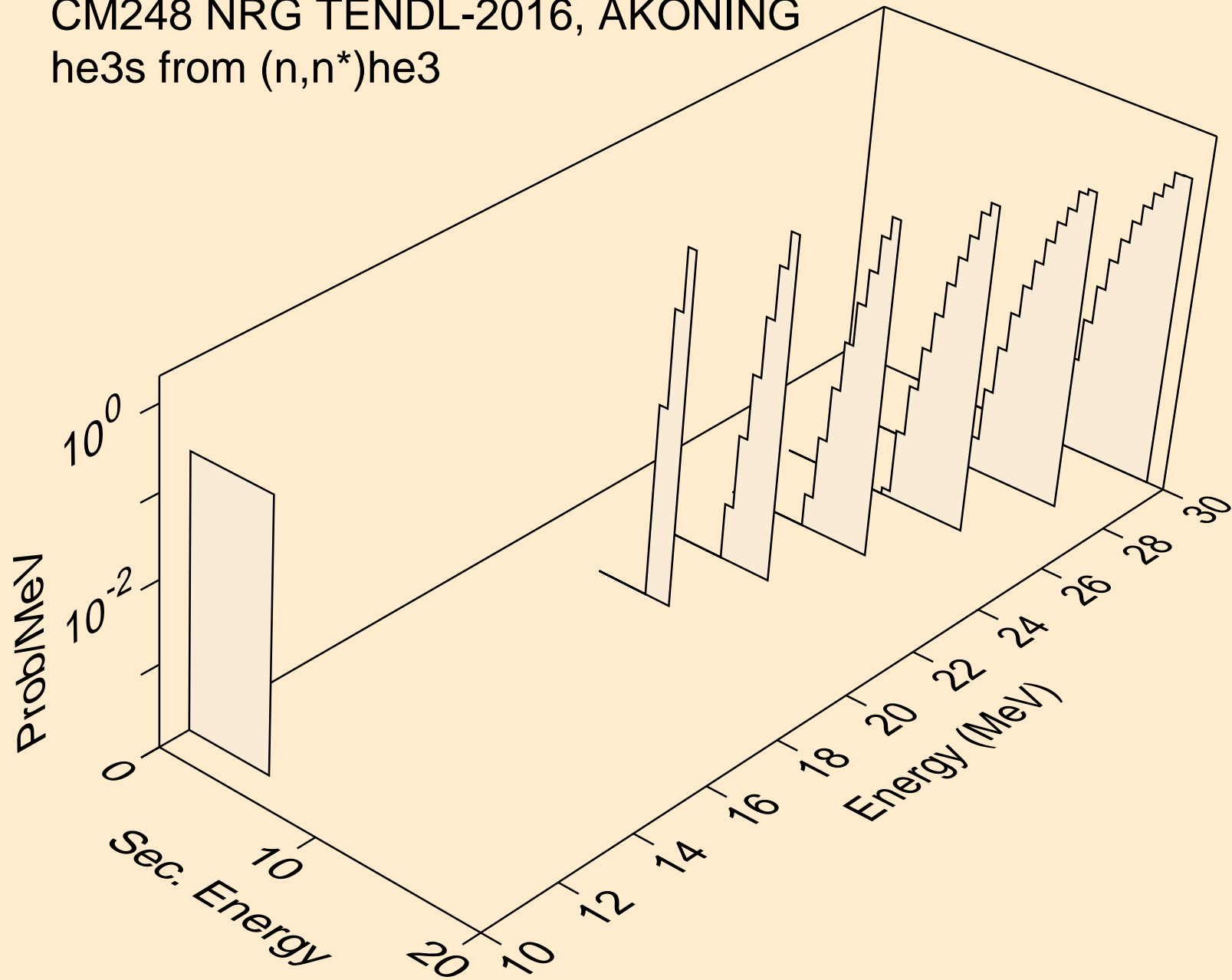tritons from (n,n*)t

CM248 NRG TENDL-2016, AKONING
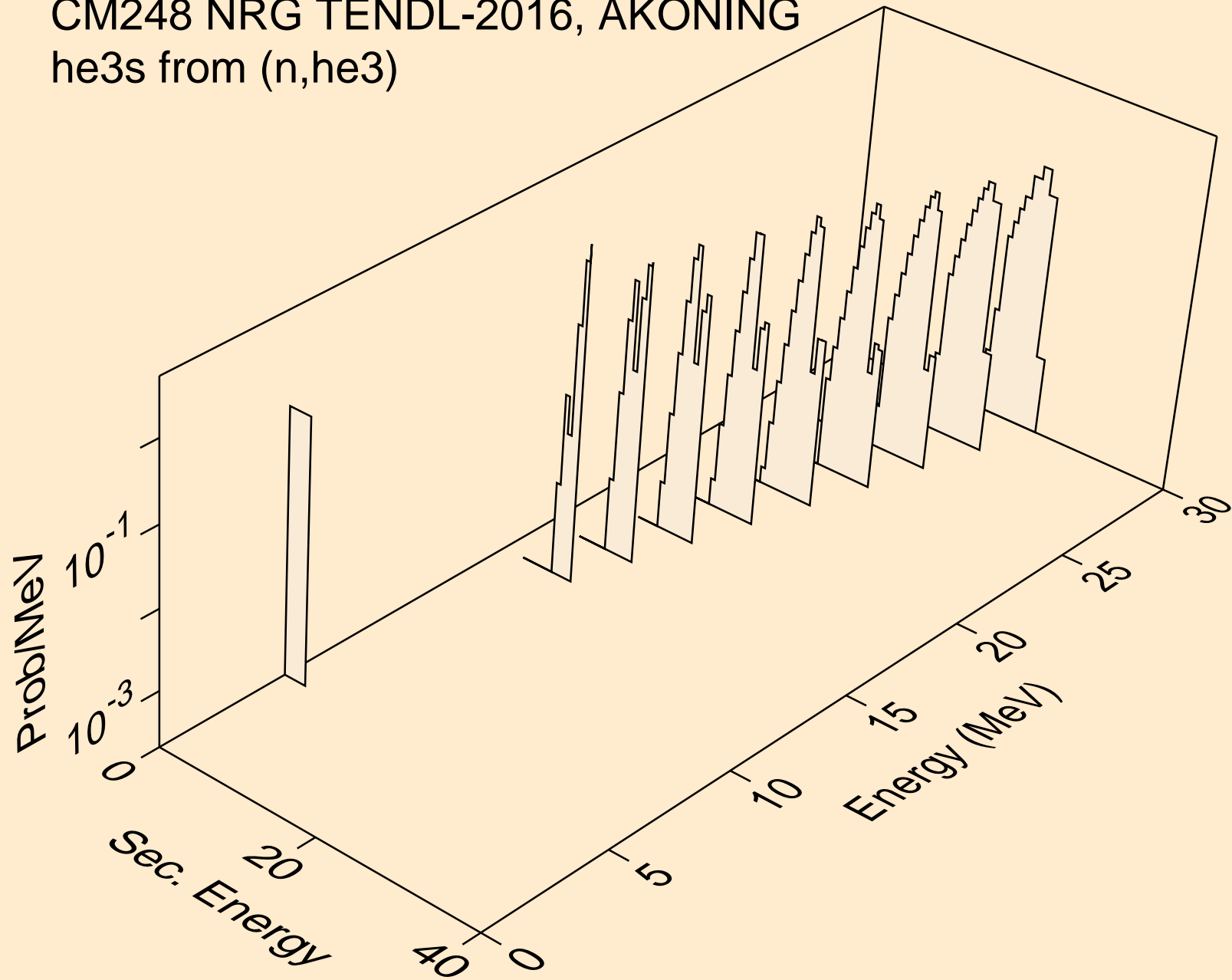tritons from (n,t)

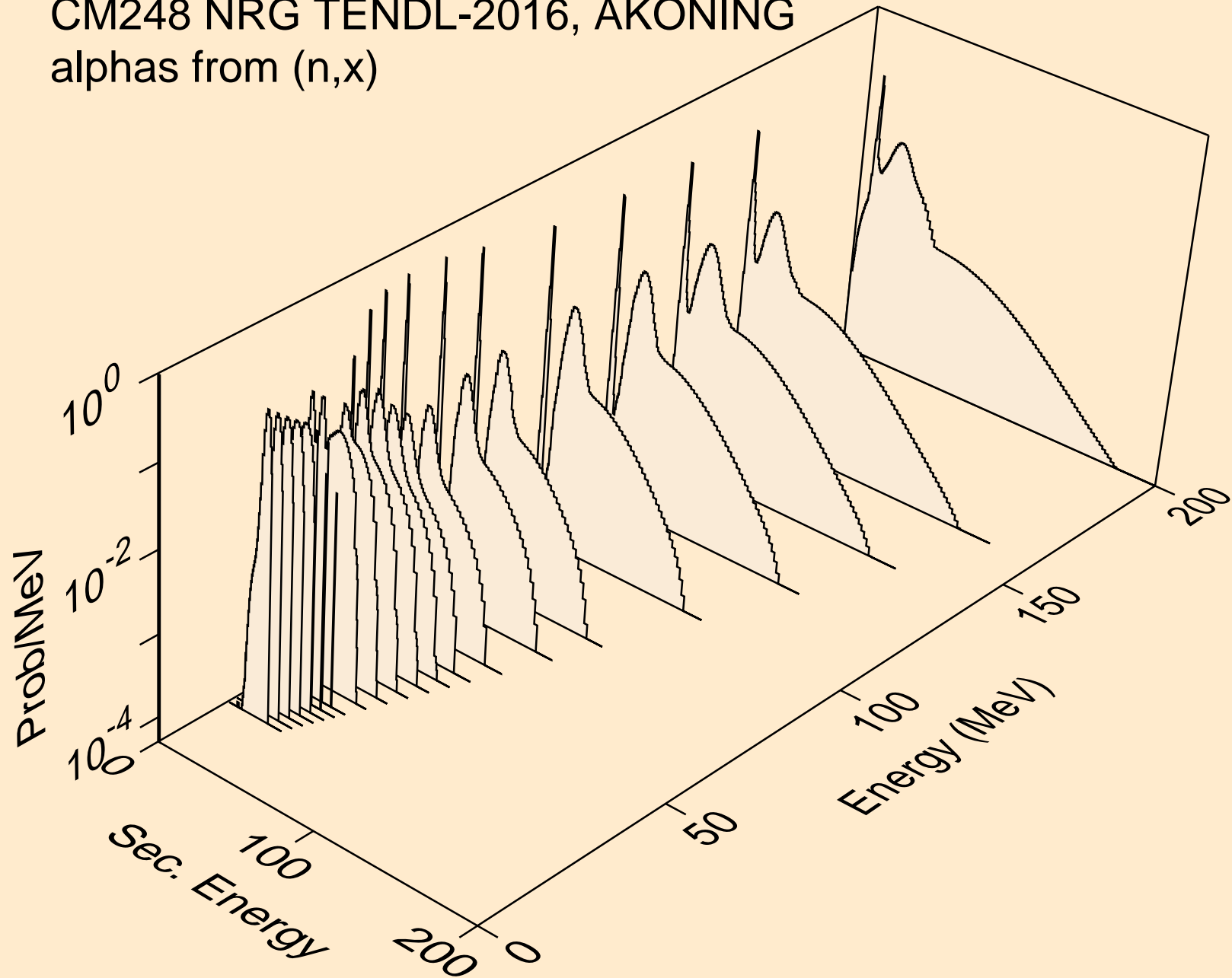CM248 NRG TENDL-2016, AKONING
he3s from (n,x)

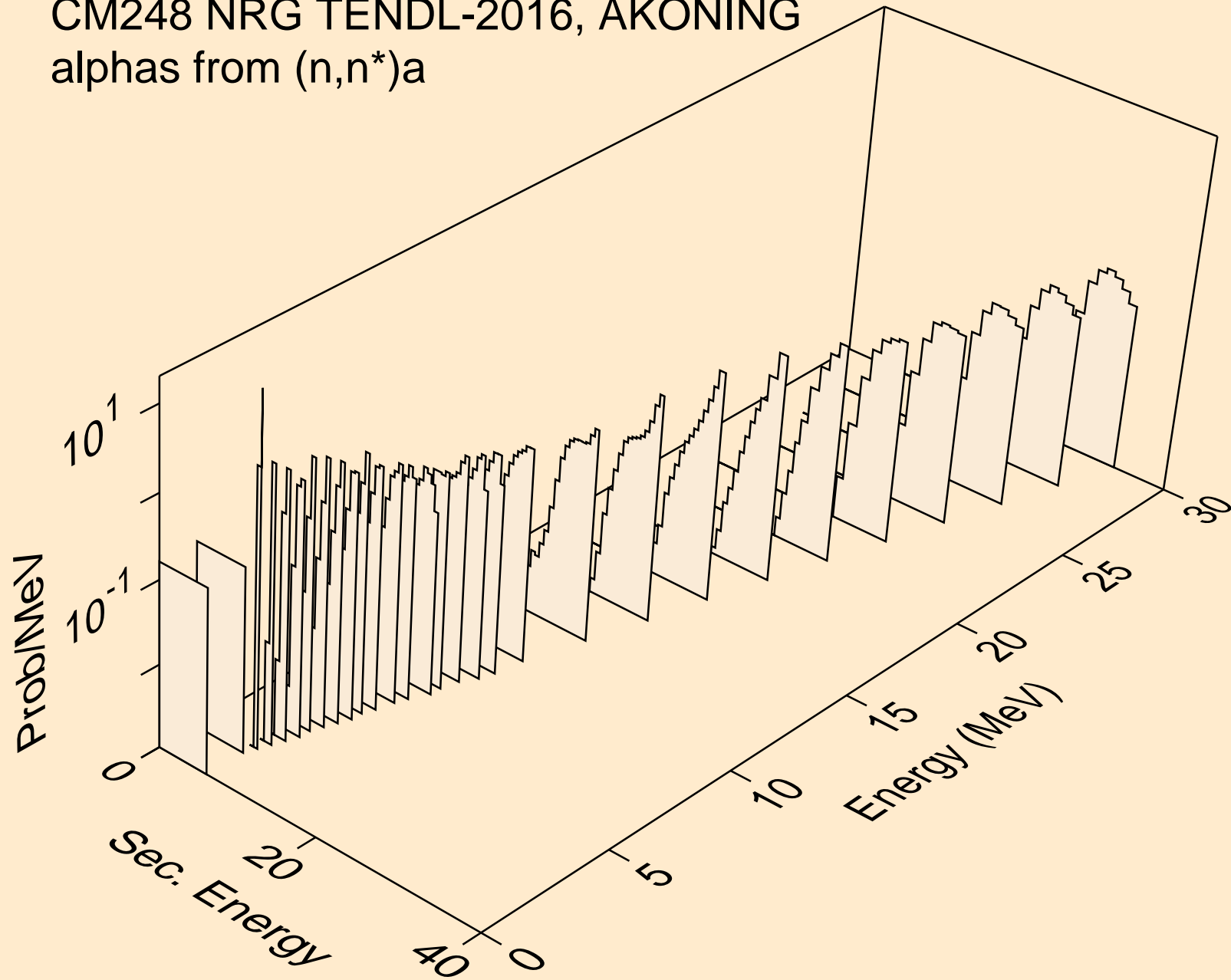CM248 NRG TENDL-2016, AKONING
he3s from (n,n*)he3
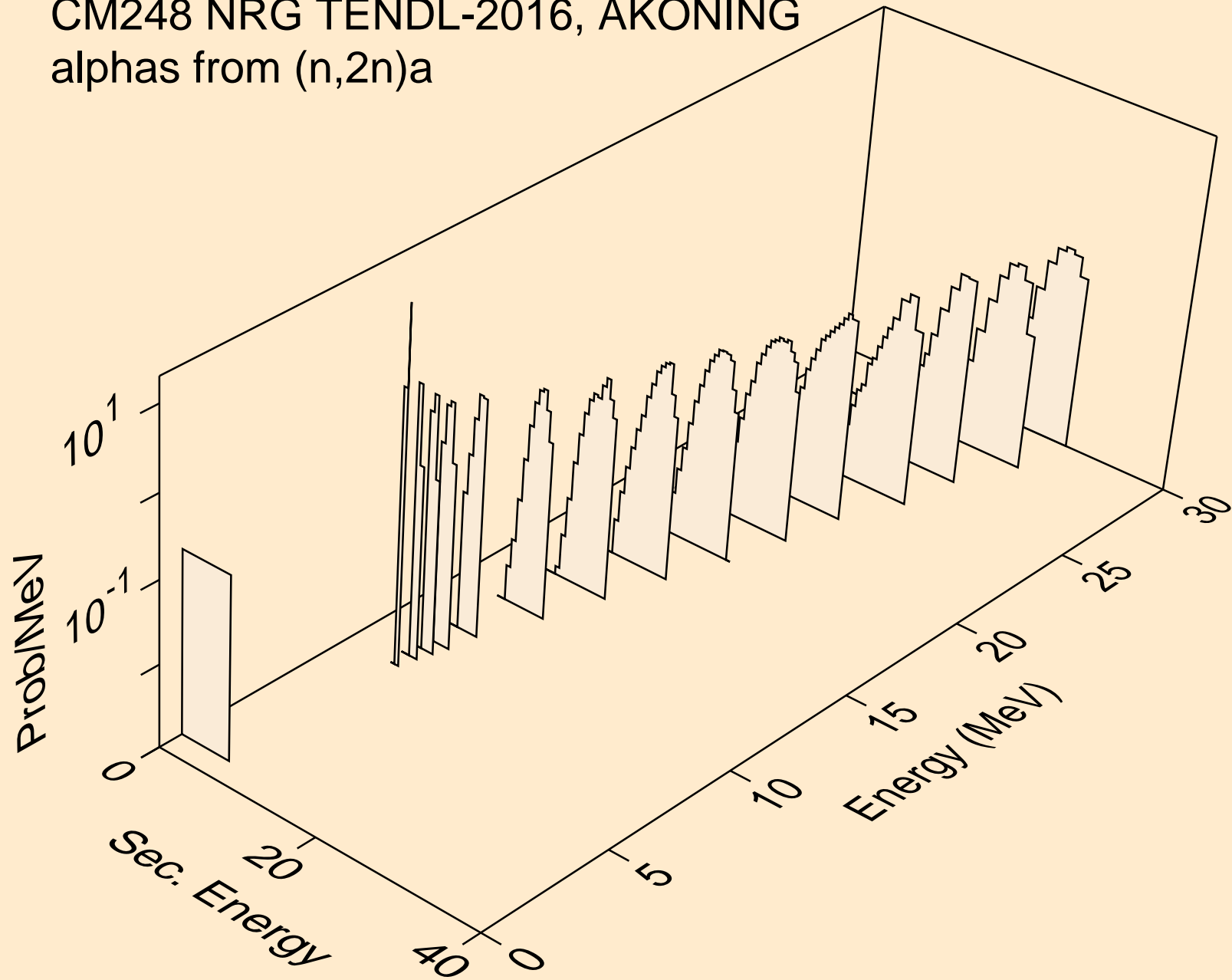
CM248 NRG TENDL-2016, AKONING
he3s from (n,he3)

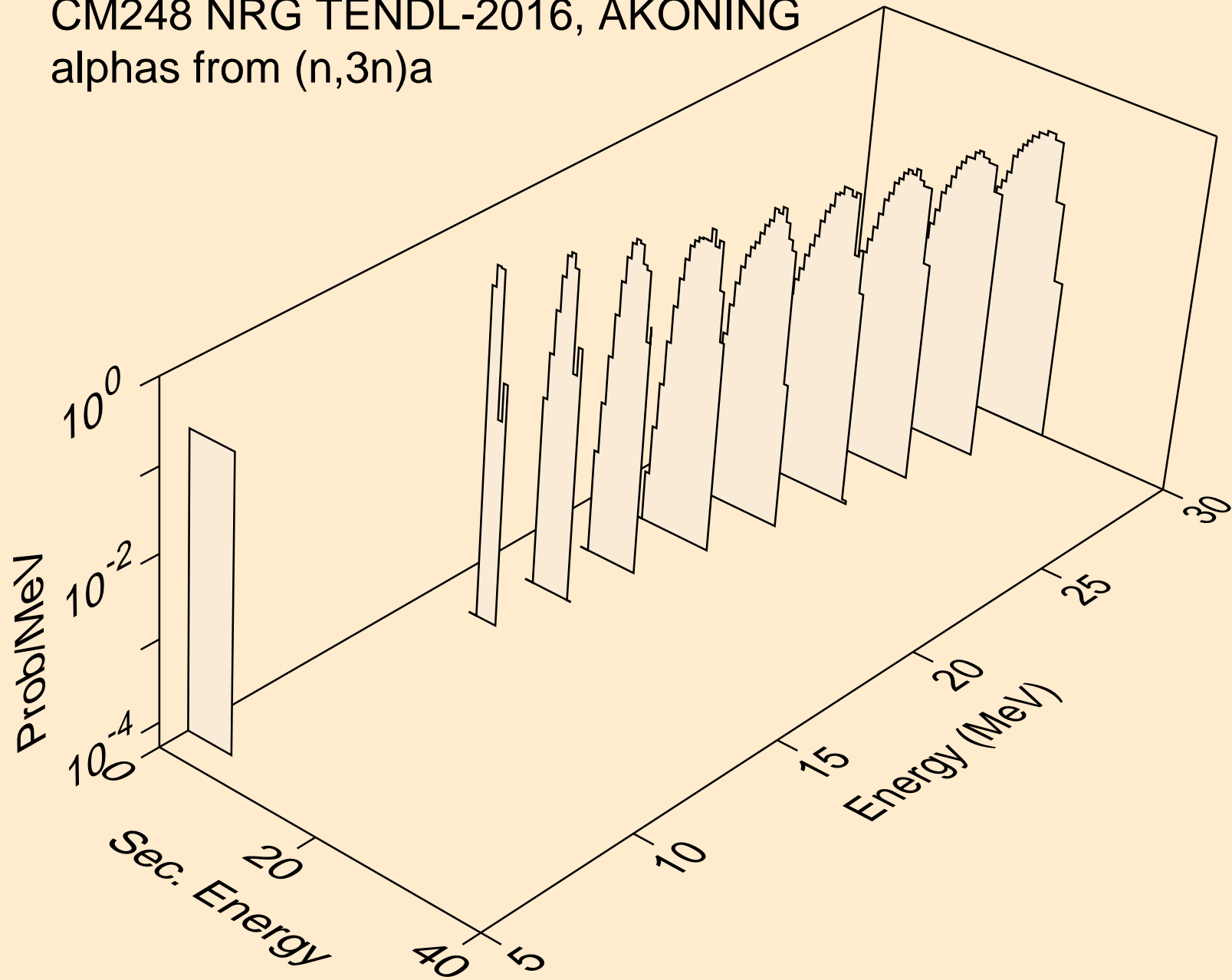CM248 NRG TENDL-2016, AKONING
alphas from (n,x)

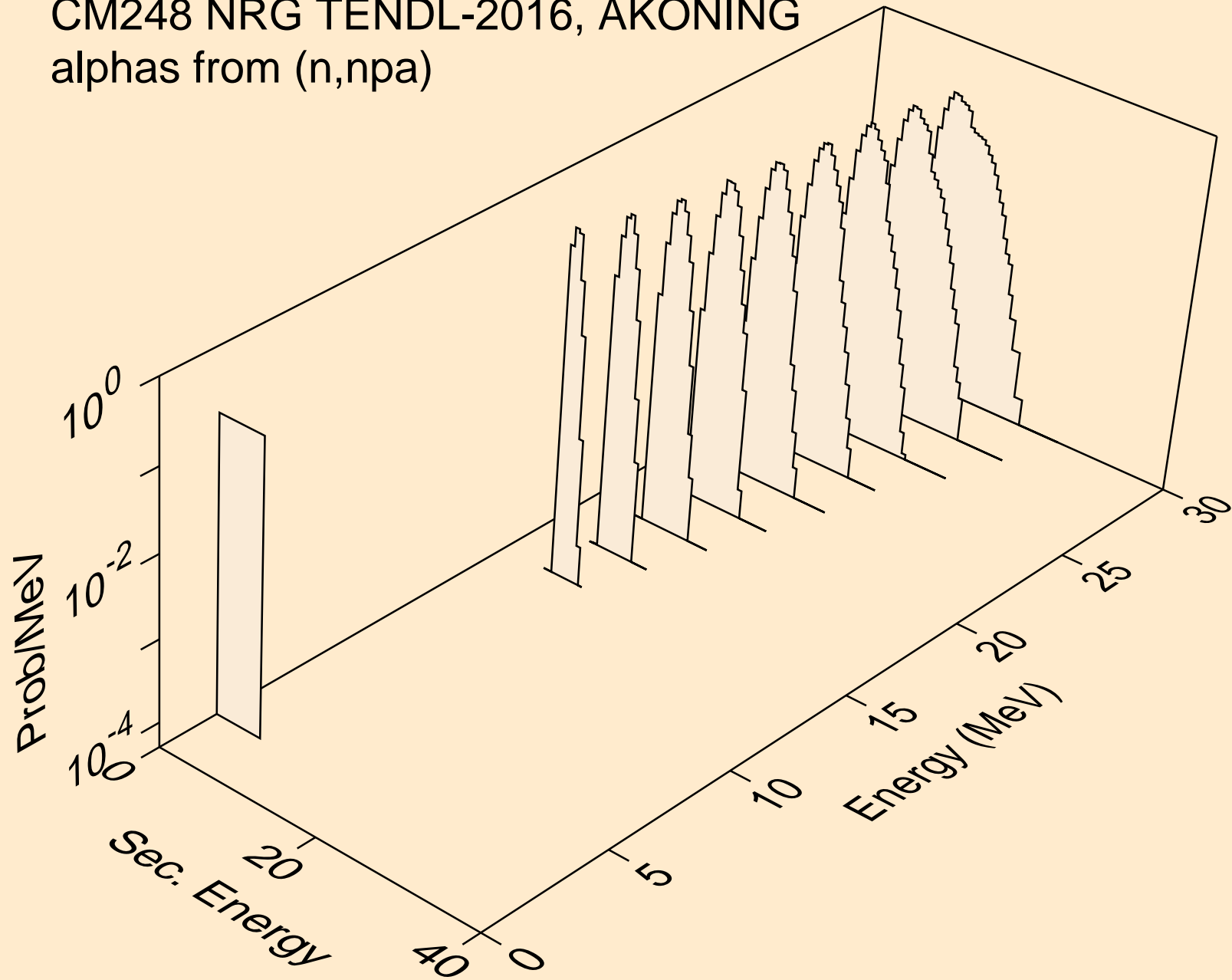CM248 NRG TENDL-2016, AKONING
alphas from (n,n*)a

CM248 NRG TENDL-2016, AKONING
alphas from (n,2n)a

CM248 NRG TENDL-2016, AKONING
alphas from (n,3n)a

CM248 NRG TENDL-2016, AKONING
alphas from (n,npa)

CM248 NRG TENDL-2016, AKONING
alphas from (n,a)