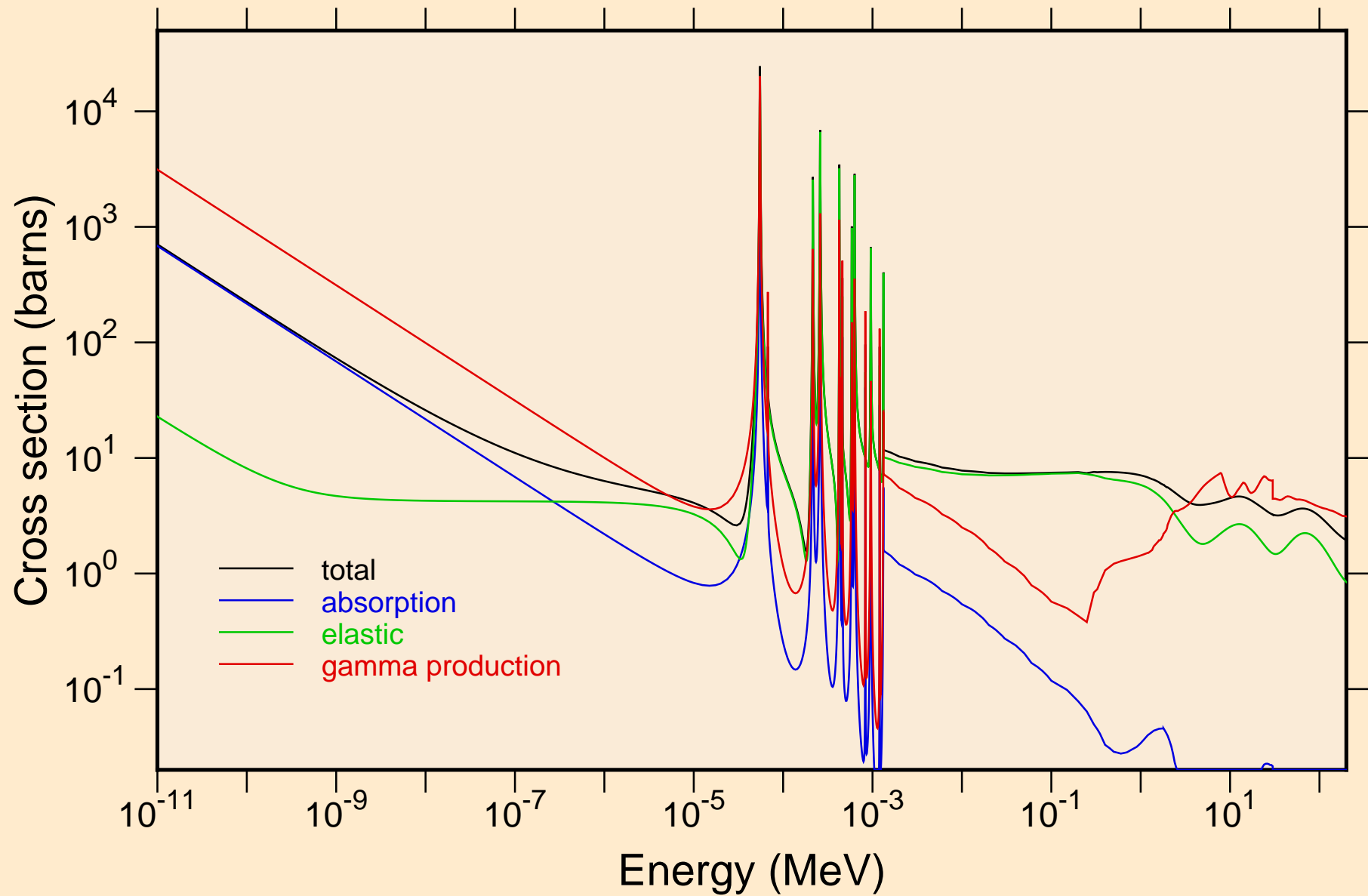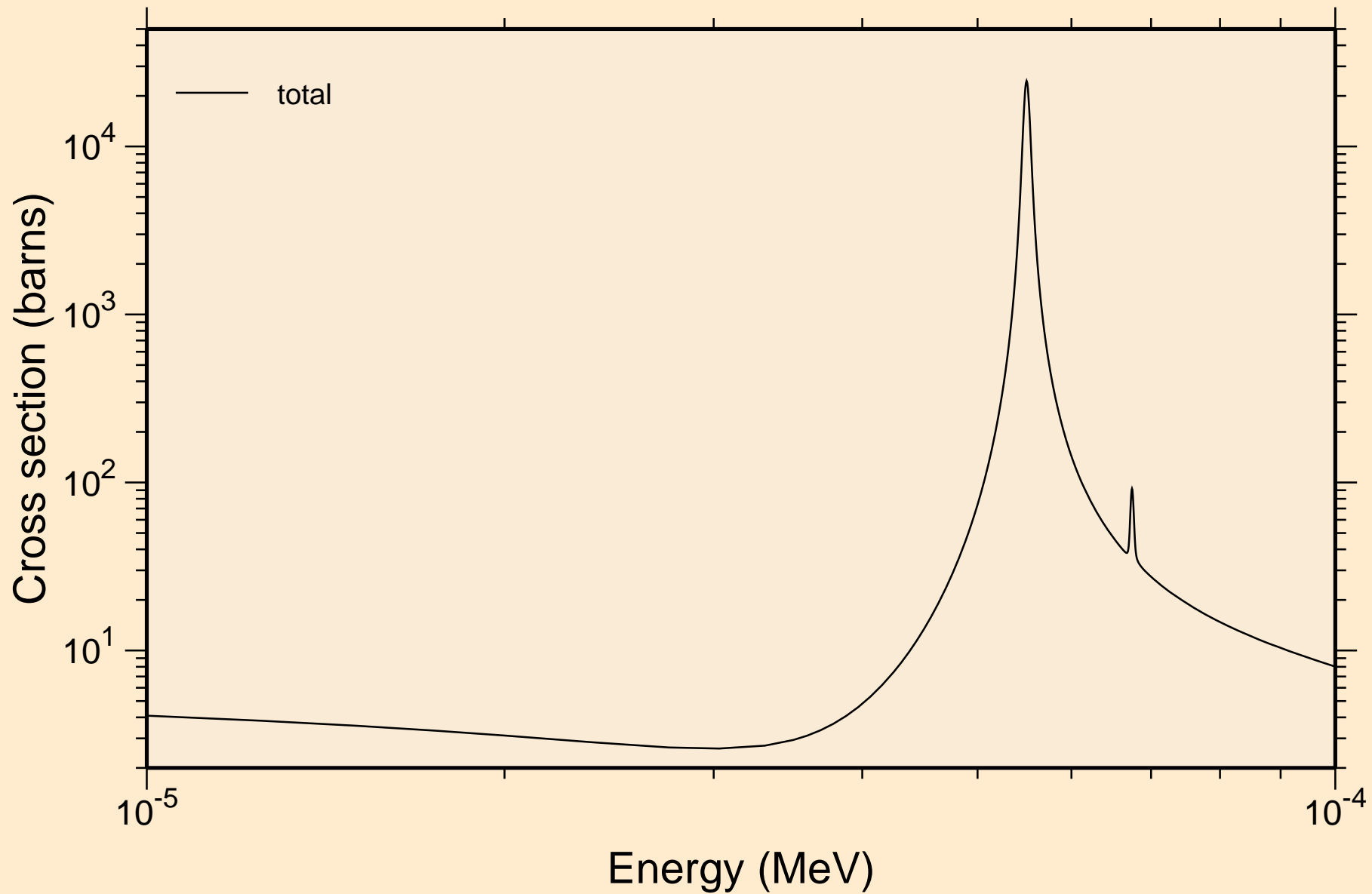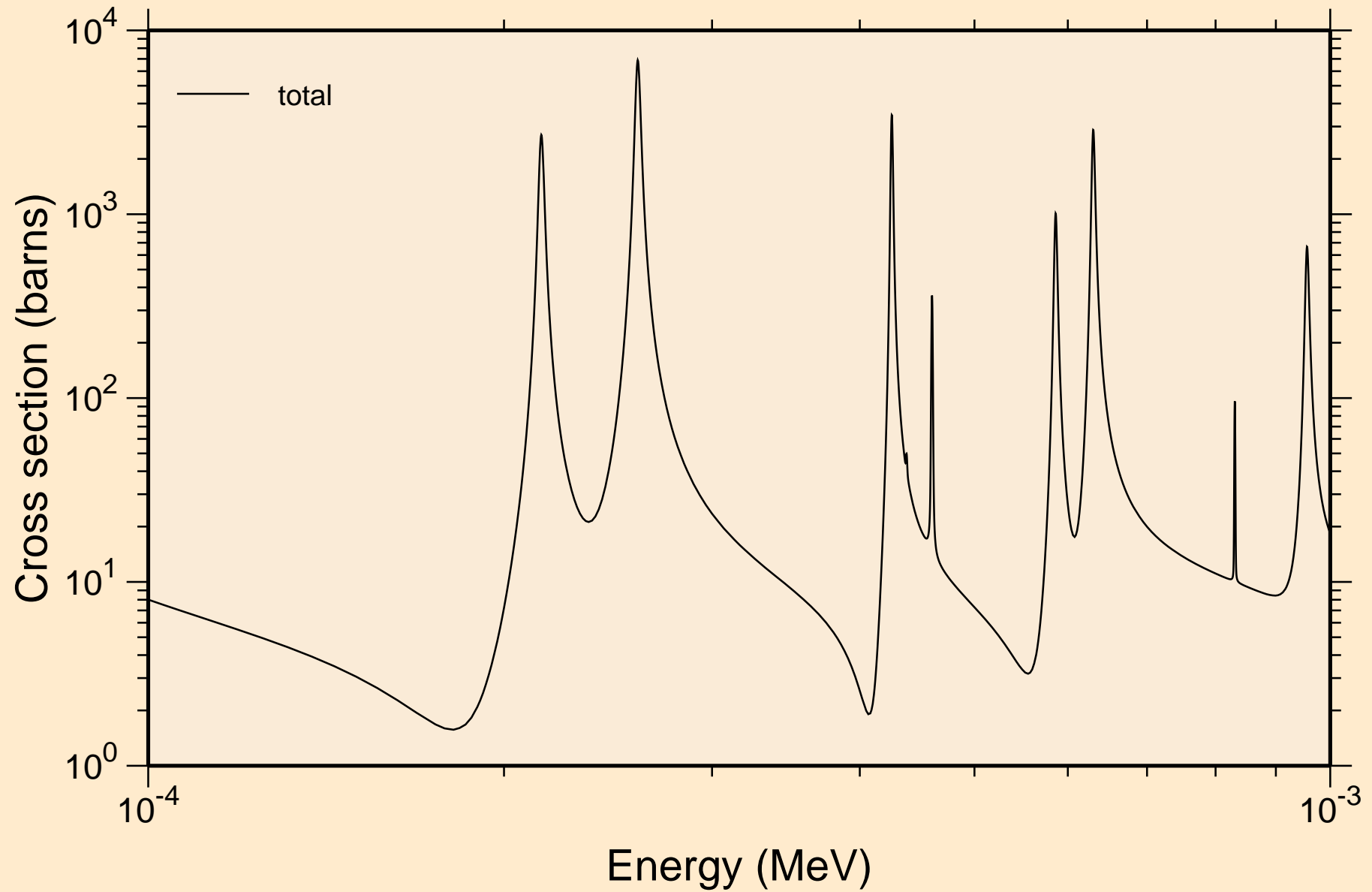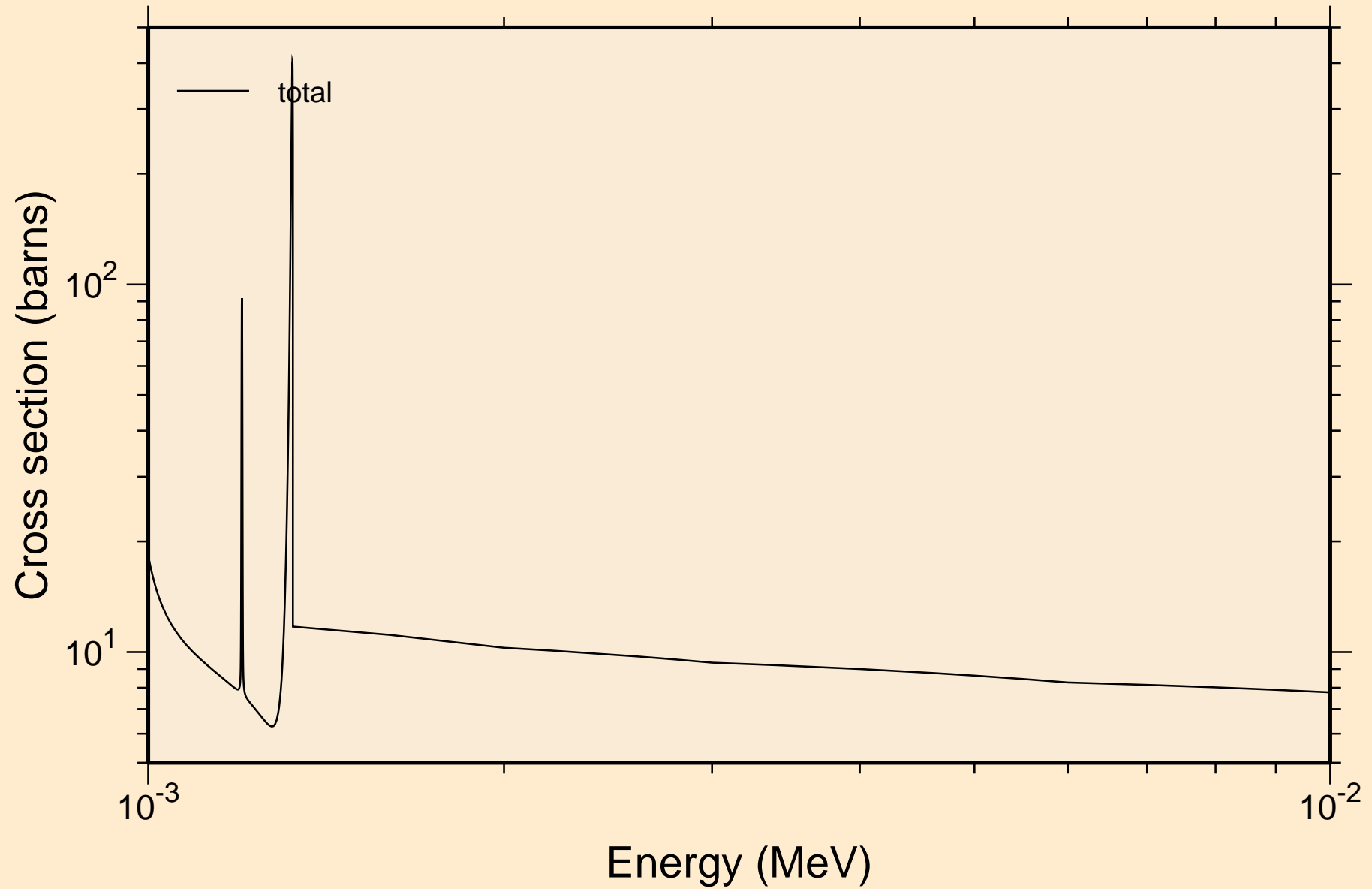AG117 NRG TENDL-2015, AKONING
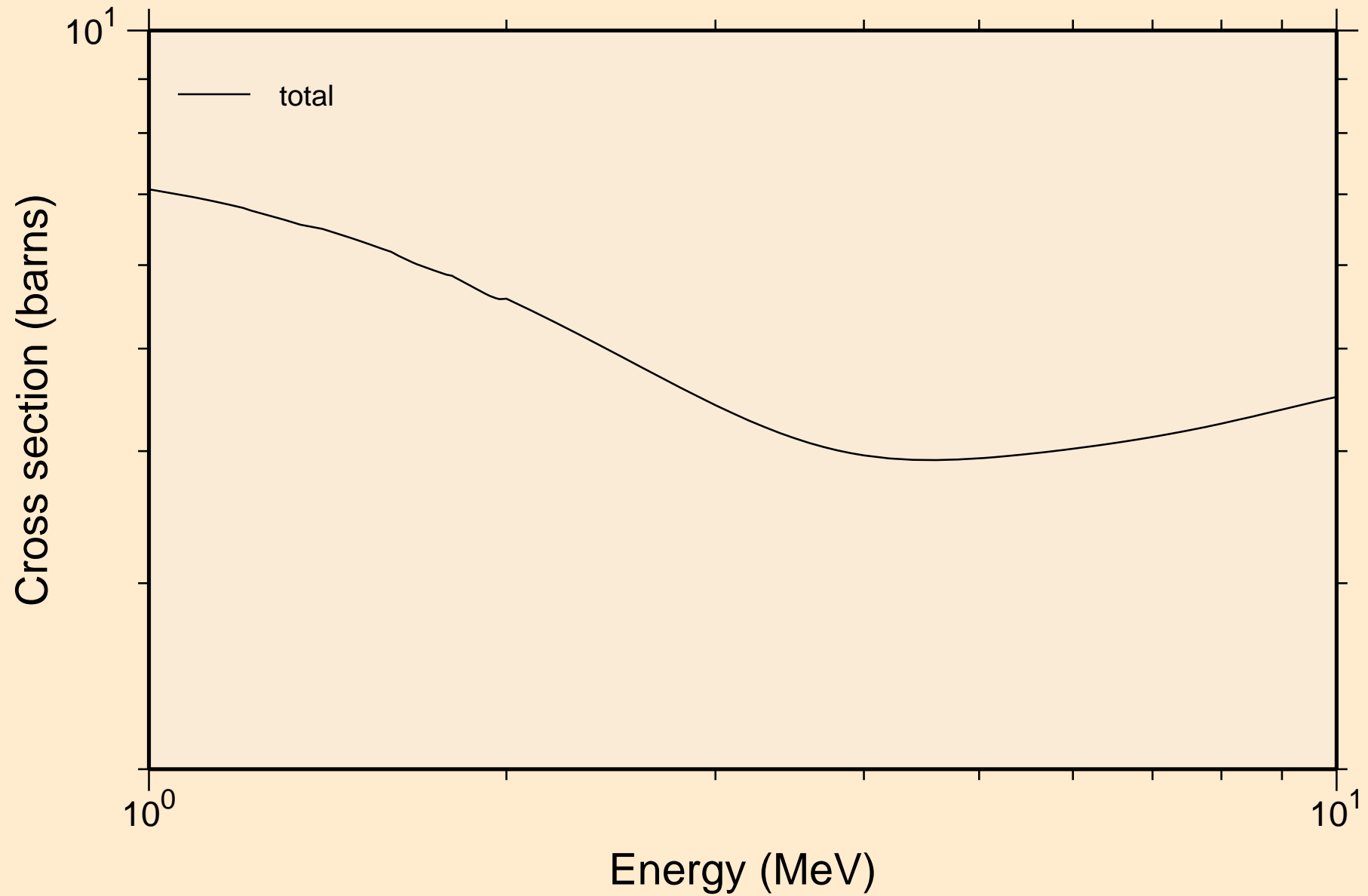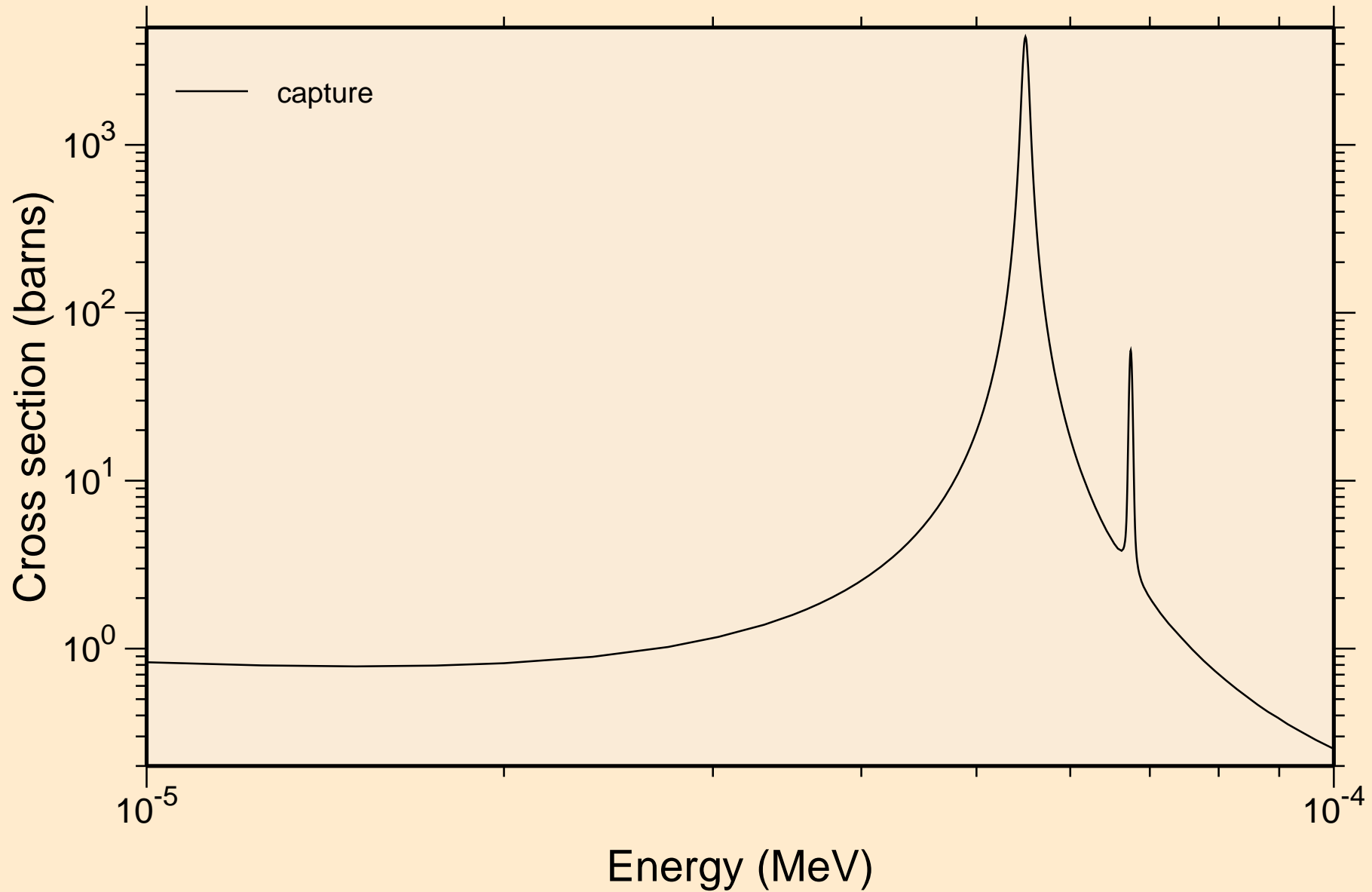Principal cross sections

AG117 NRG TENDL-2015, AKONING
resonance total cross section

AG117 NRG TENDL-2015, AKONING
resonance total cross section

AG117 NRG TENDL-2015, AKONING
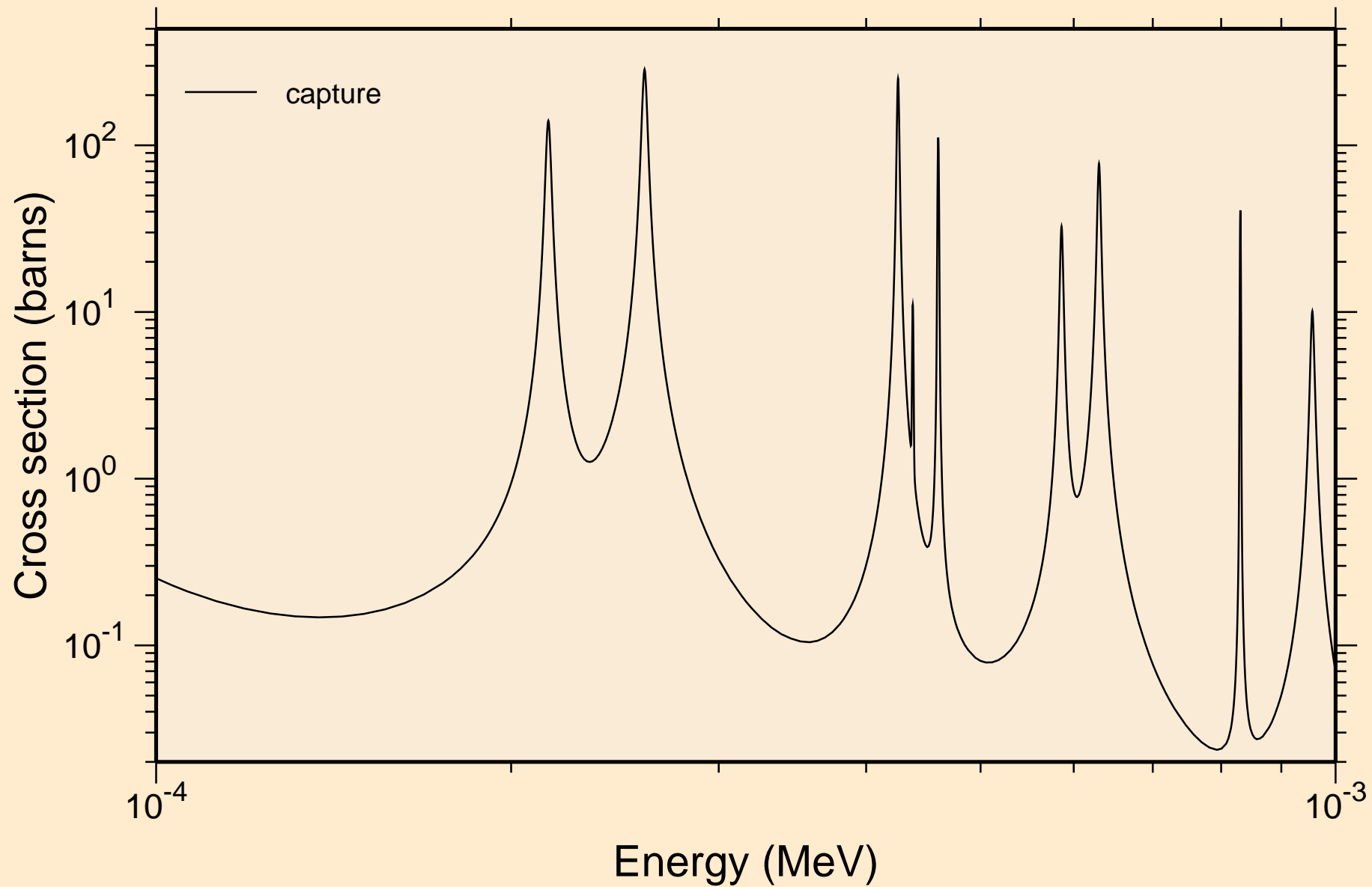resonance total cross section

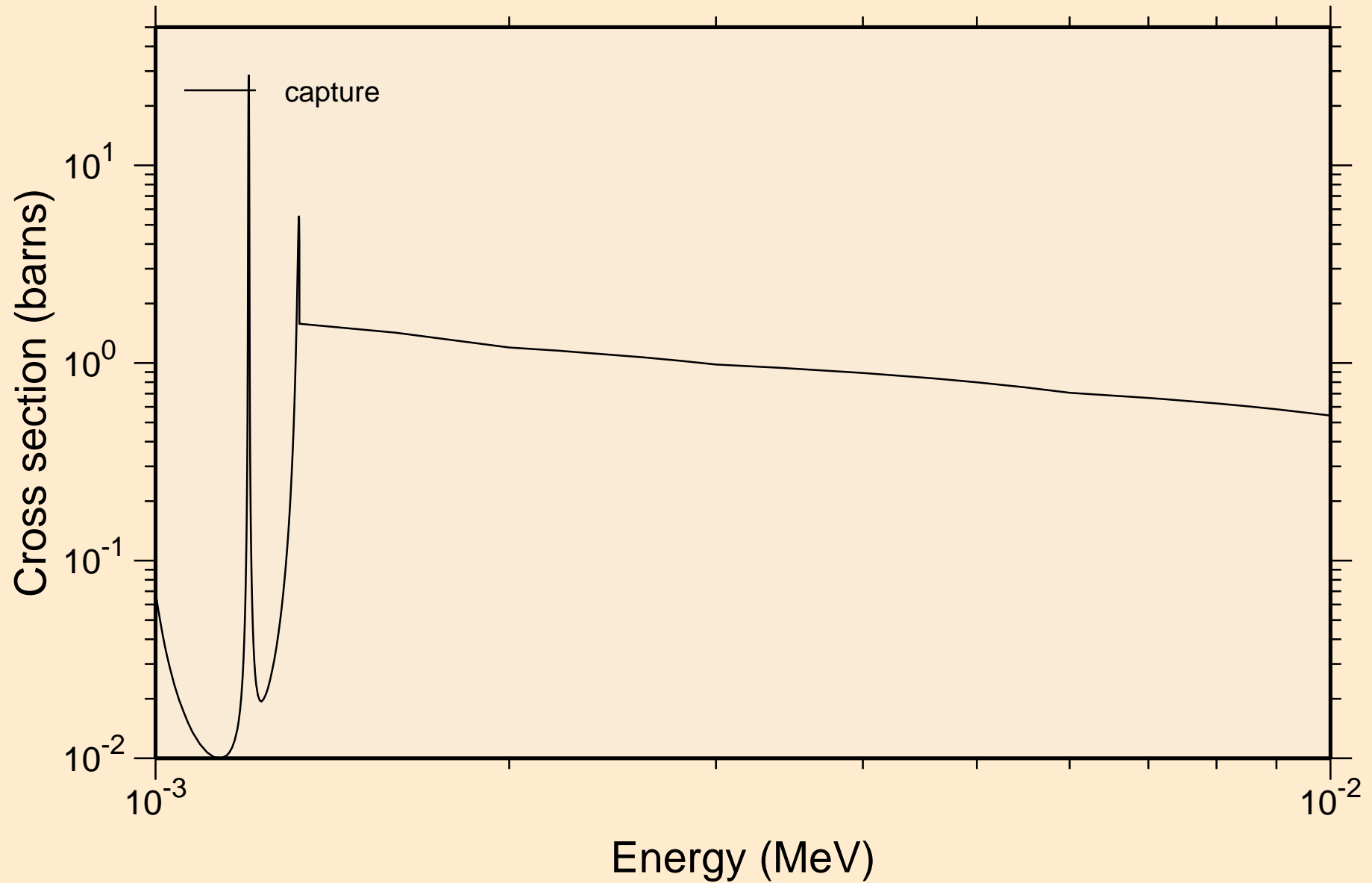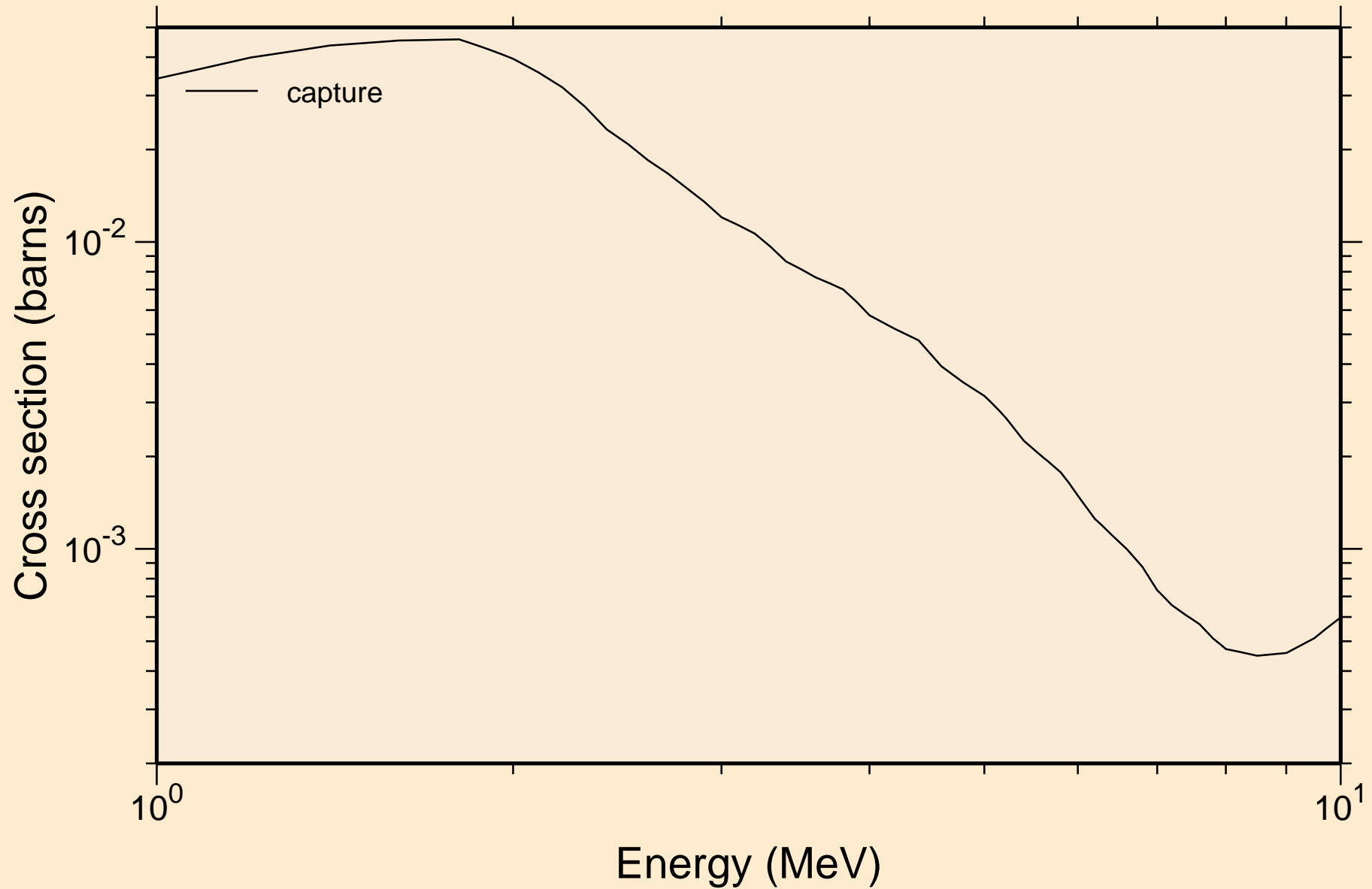AG117 NRG TENDL-2015, AKONING
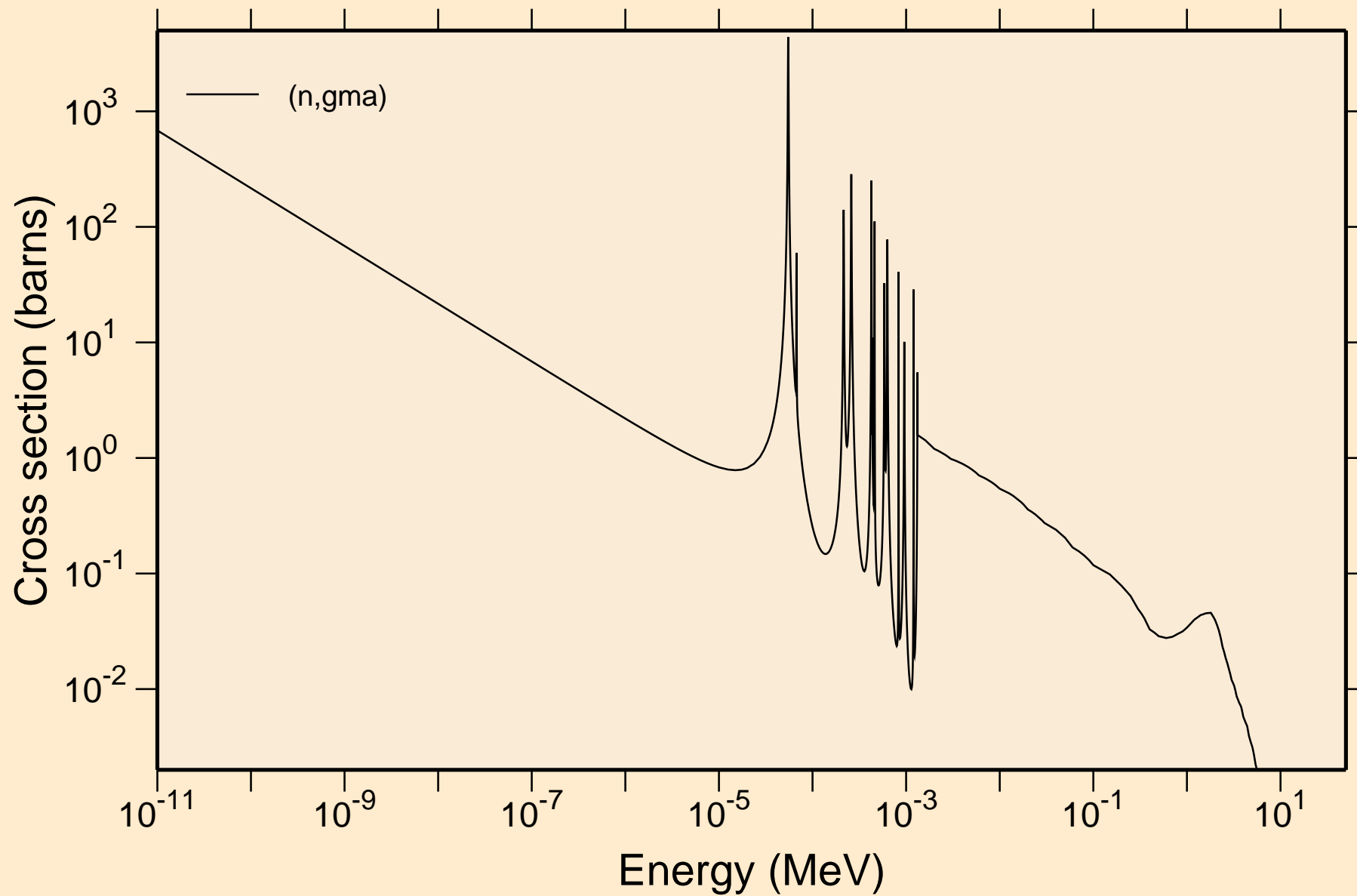resonance total cross section

AG117 NRG TENDL-2015, AKONING
resonance absorption cross sections

AG117 NRG TENDL-2015, AKONING
resonance absorption cross sections

AG117 NRG TENDL-2015, AKONING
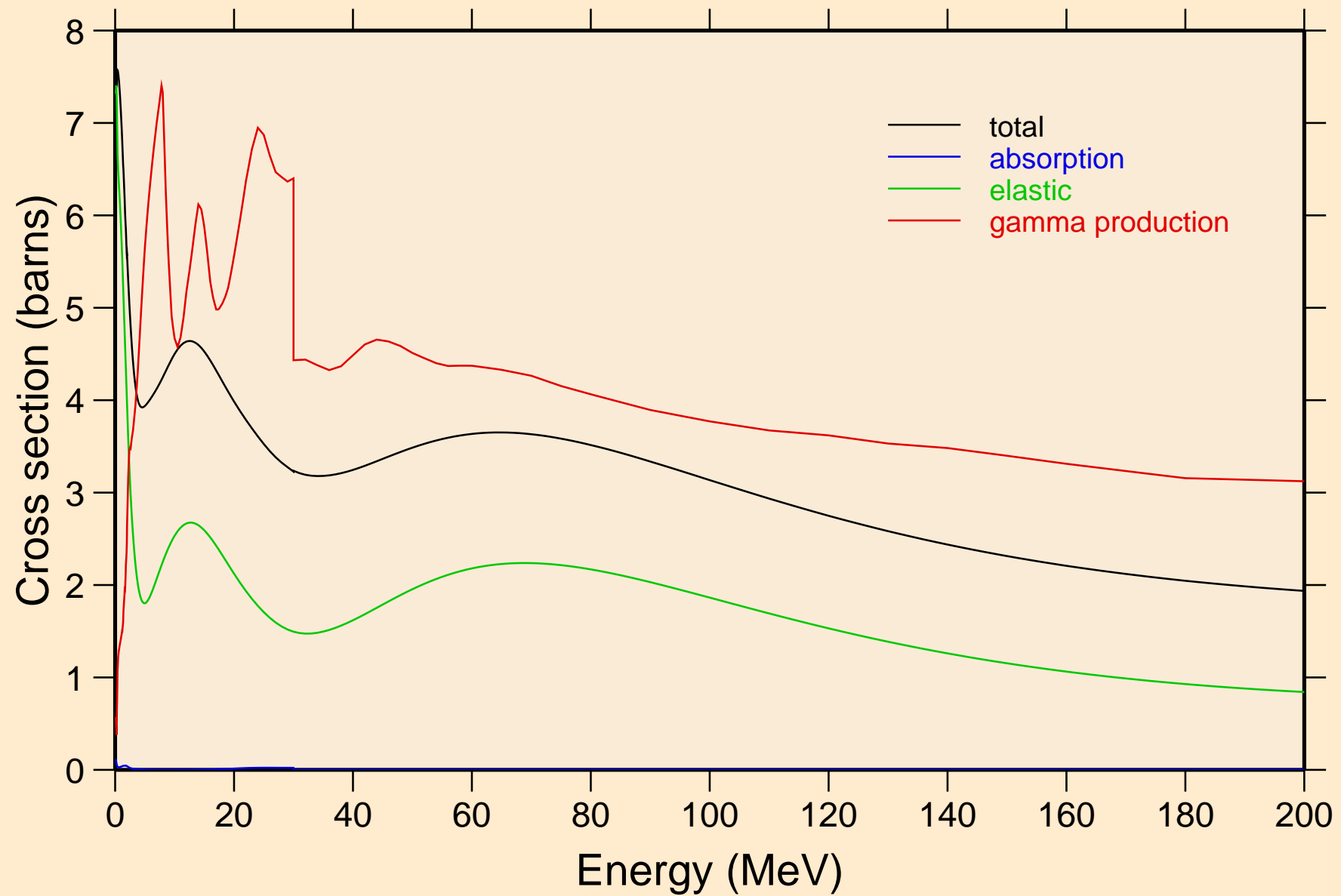resonance absorption cross sections

capture

Cross section (barns)

Energy (MeV)

AG117 NRG TENDL-2015, AKONING
resonance absorption cross sections

AG117 NRG TENDL-2015, AKONING
Non-threshold reactions

(n,gma)

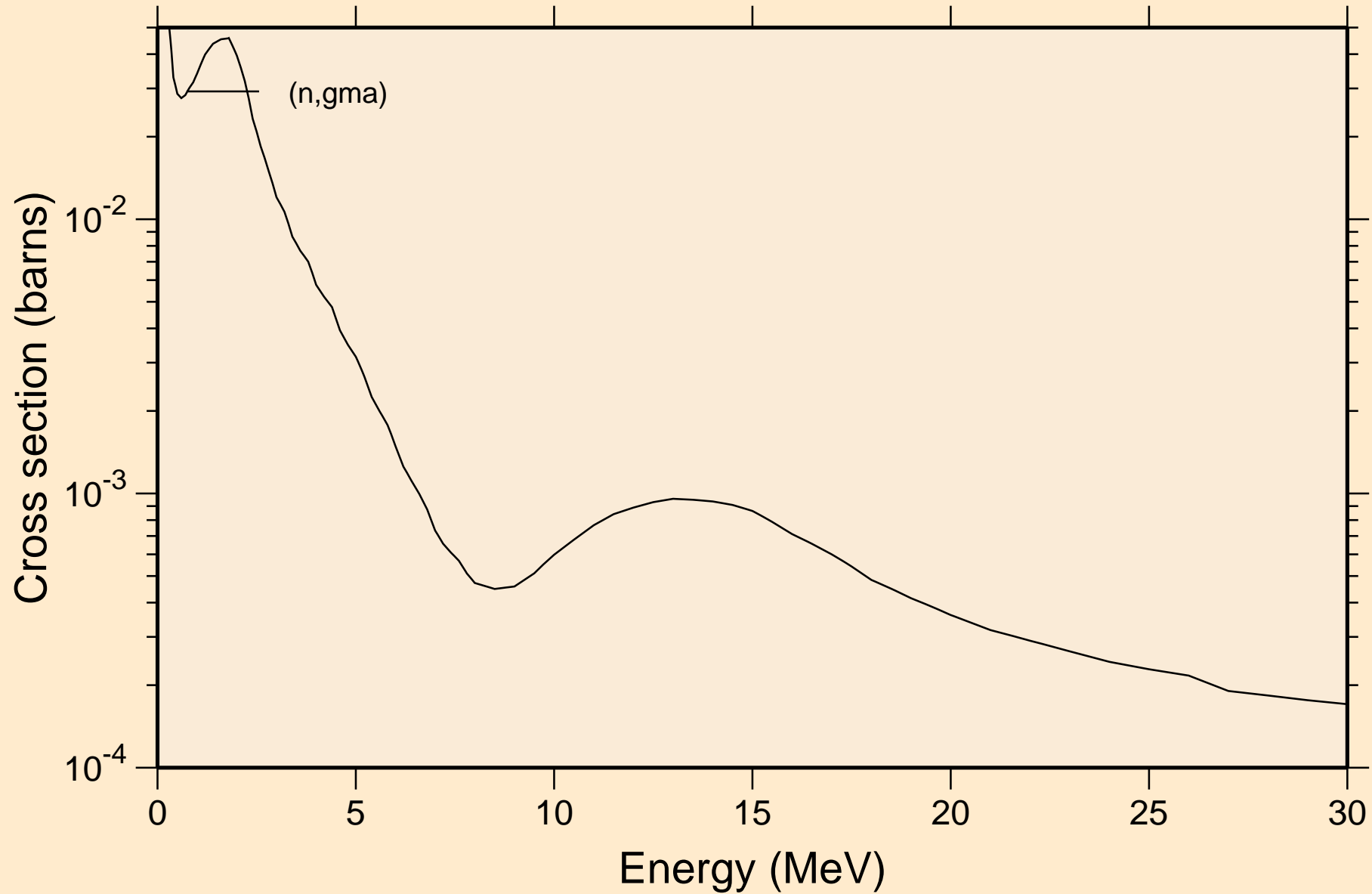Cross section (barns)

Energy (MeV)

AG117 NRG TENDL-2015, AKONING
Principal cross sections

Legend:
- total
- absorption
- elastic
- gamma production

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

AG117 NRG TENDL-2015, AKONING
Non-threshold reactions

(n,gma)

AG117 NRG TENDL-2015, AKONING
Inelastic levels

Cross section (barns) vs Energy (MeV)

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

AG117 NRG TENDL-2015, AKONING
Inelastic levels

Cross section (barns) vs Energy (MeV)

Legend:
- (n,n*6)
- (n,n*7)
- (n,n*8)
- (n,n*9)
- (n,n*10)

AG117 NRG TENDL-2015, AKONING
Inelastic levels

Cross section (barns)

Energy (MeV)

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

AG117 NRG TENDL-2015, AKONING
Inelastic levels

Cross section (barns)

Energy (MeV)

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

AG117 NRG TENDL-2015, AKONING
Inelastic levels

Cross section (barns)

*10⁻³

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

Energy (MeV)

AG117 NRG TENDL-2015, AKONING
Inelastic levels

AG117 NRG TENDL-2015, AKONING
Threshold reactions

(n,x)
(n,2nd)
(n,2n)
(n,3n)
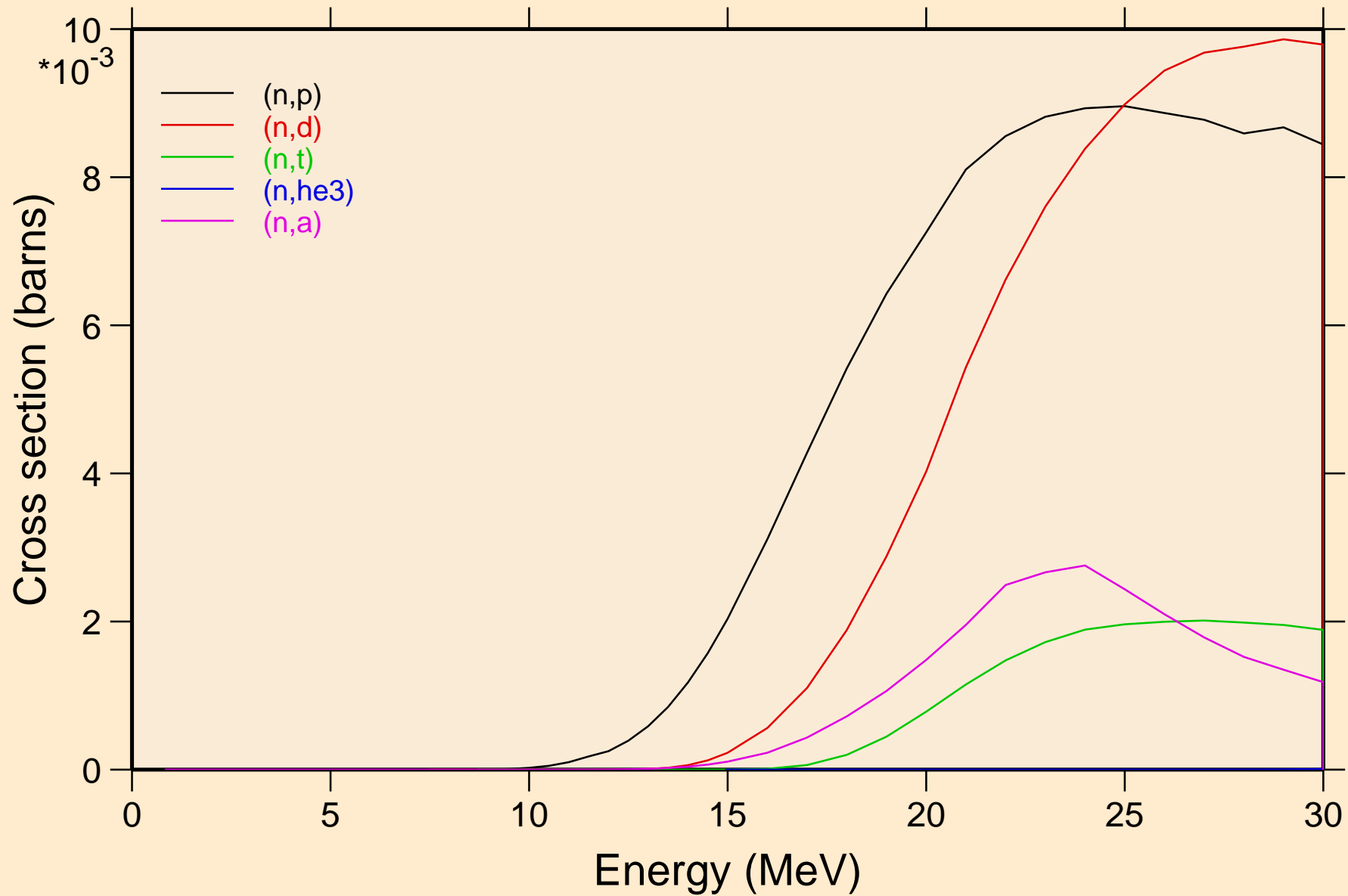(n,n*)a

AG117 NRG TENDL-2015, AKONING
Threshold reactions

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

Cross section (barns) *10⁻³ vs Energy (MeV)

AG117 NRG TENDL-2015, AKONING
Threshold reactions

Legend:
- (n,n*)he3 — black
- (n,4n) — red
- (n,2np) — green
- (n,3np) — blue
- (n,n*c) — magenta

AG117 NRG TENDL-2015, AKONING
Threshold reactions

AG117 NRG TENDL-2015, AKONING
angular distribution for elastic
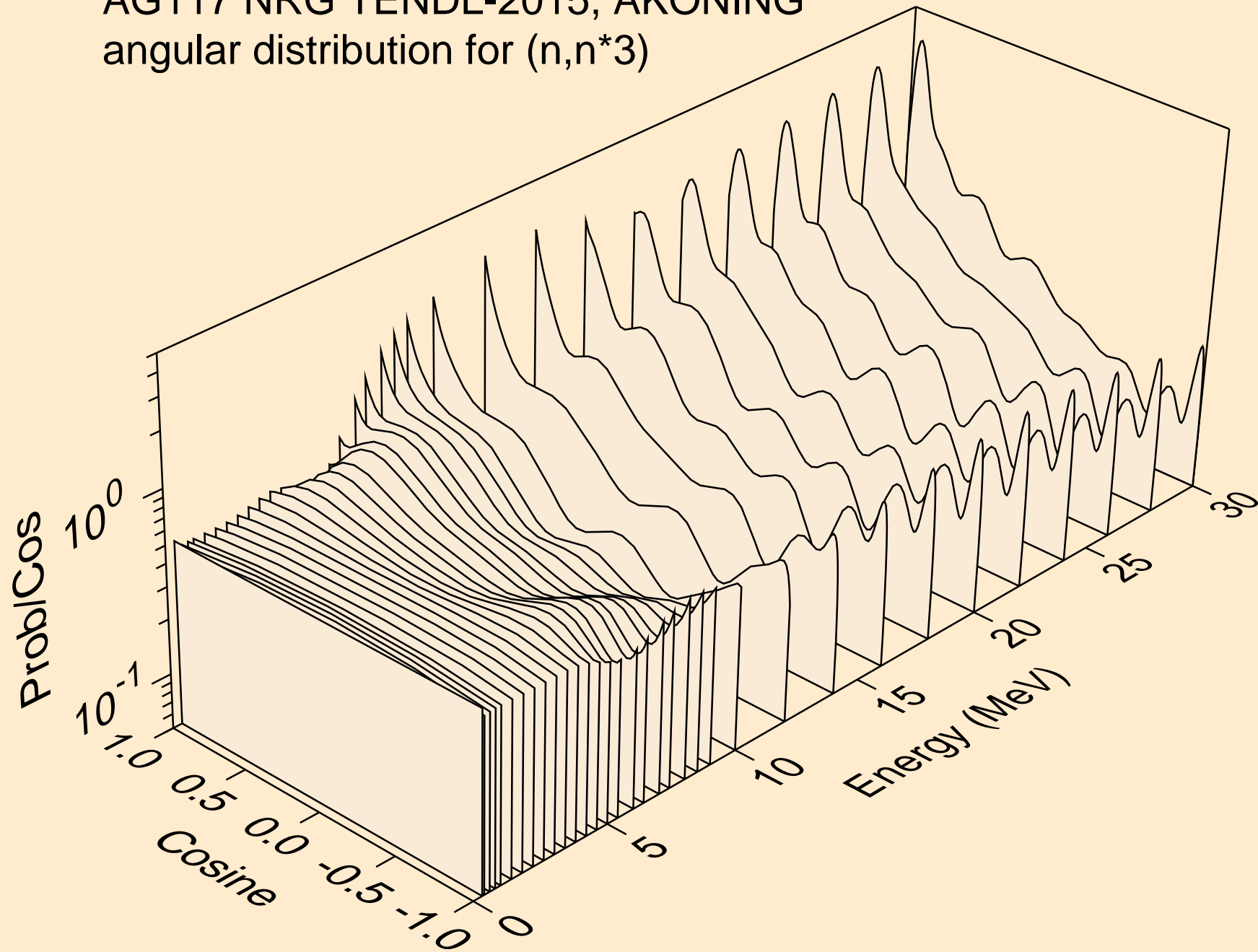
AG117 NRG TENDL-2015, AKONING
angular distribution for elastic

AG117 NRG TENDL-2015, AKONING
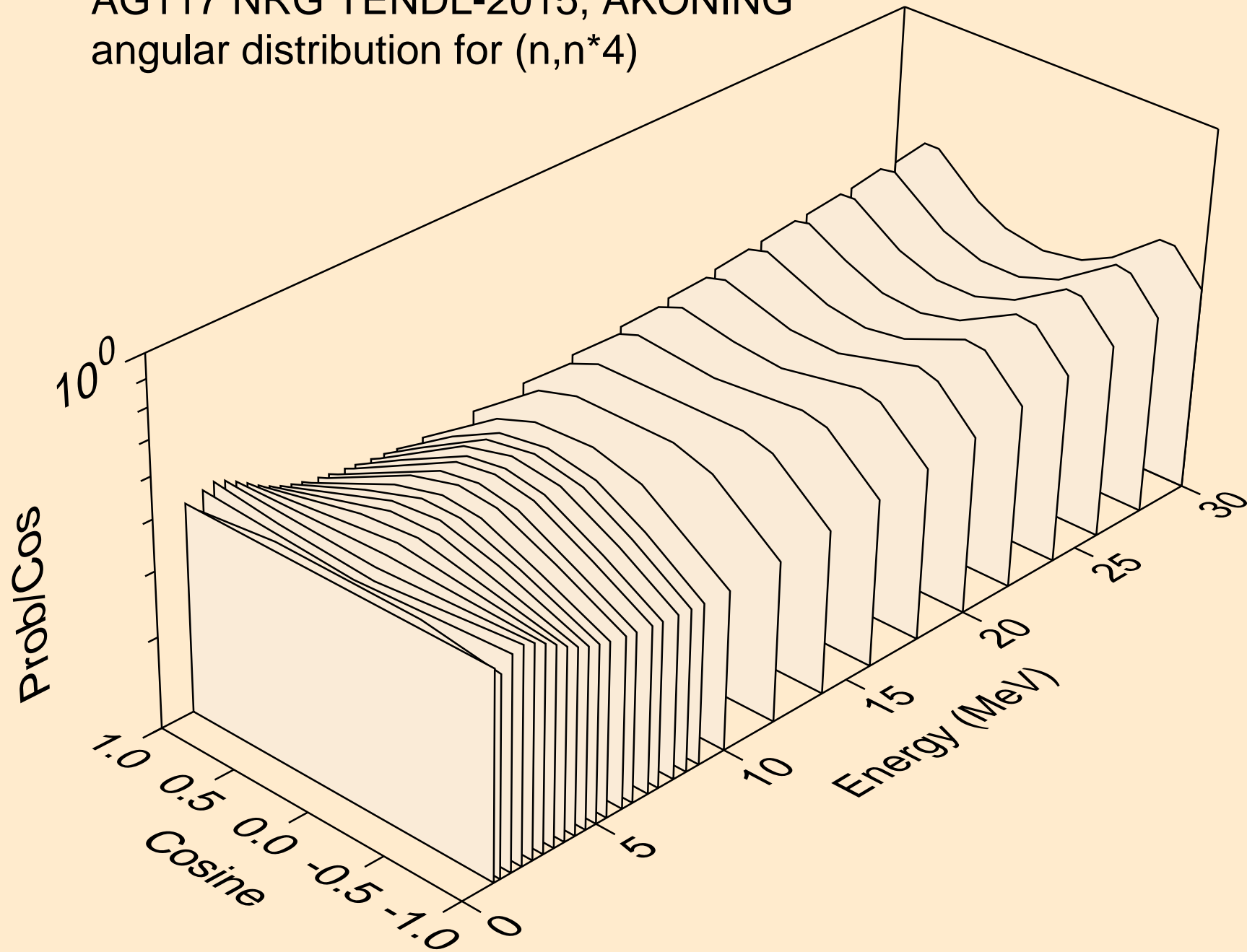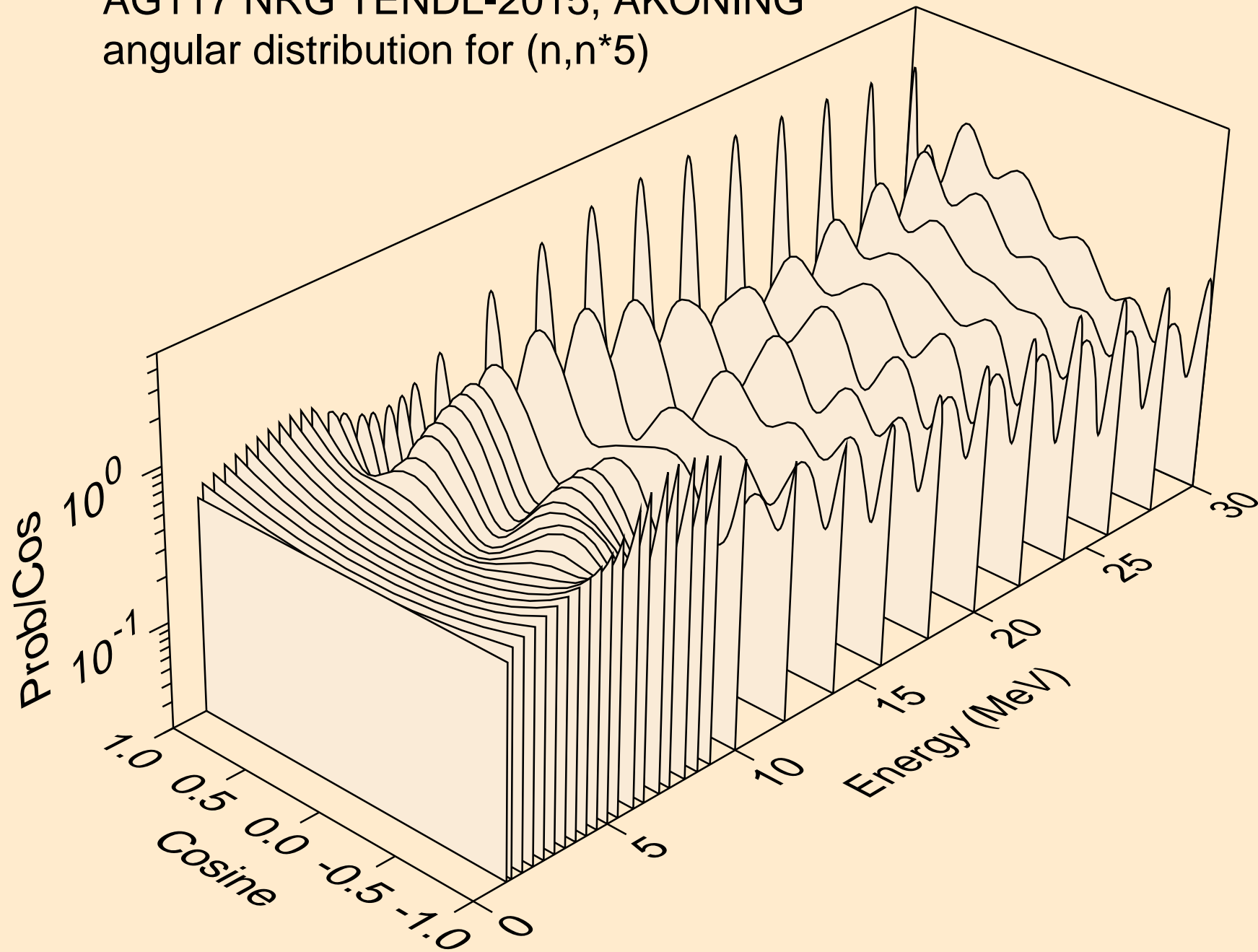angular distribution for (n,n*1)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*2)

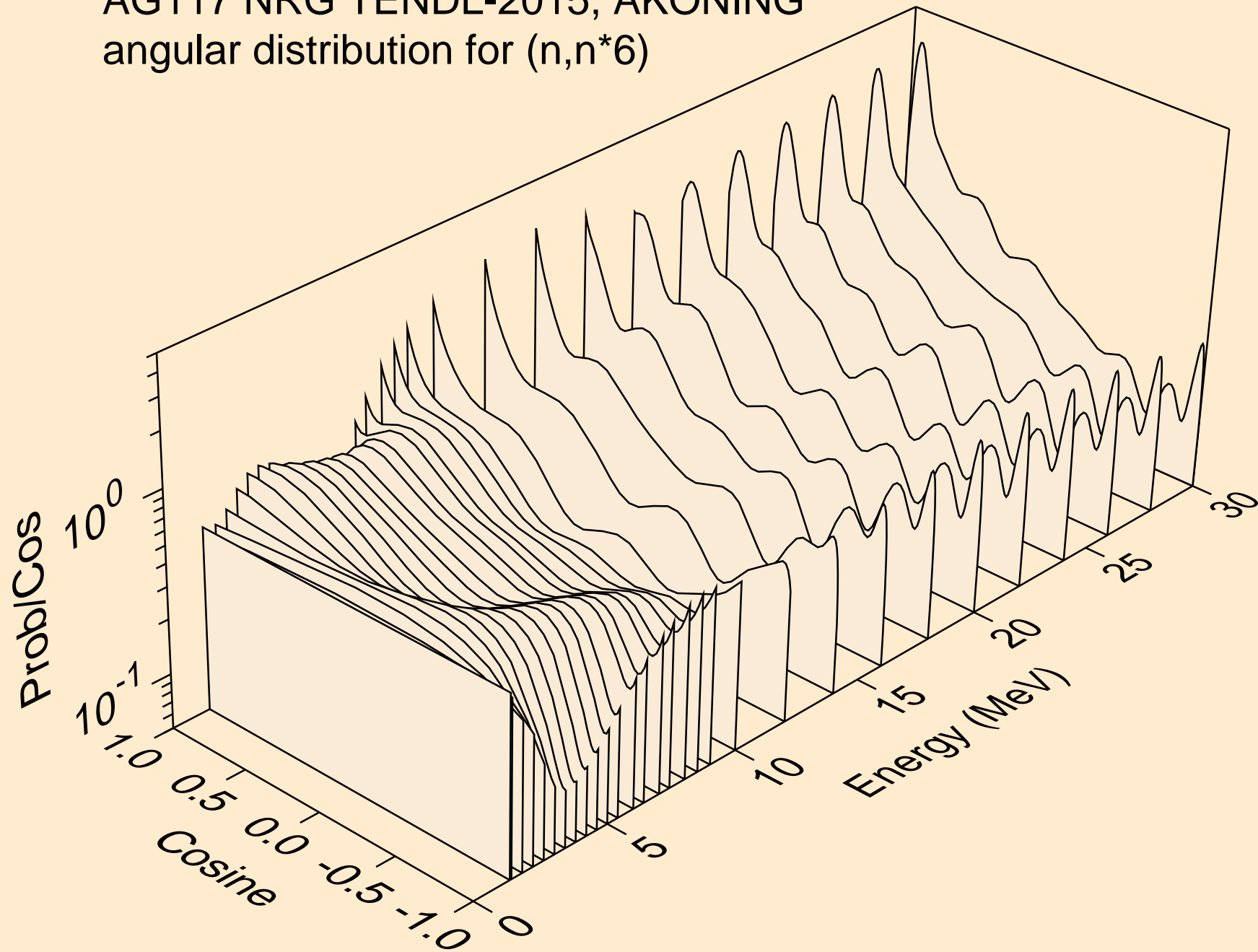AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*3)

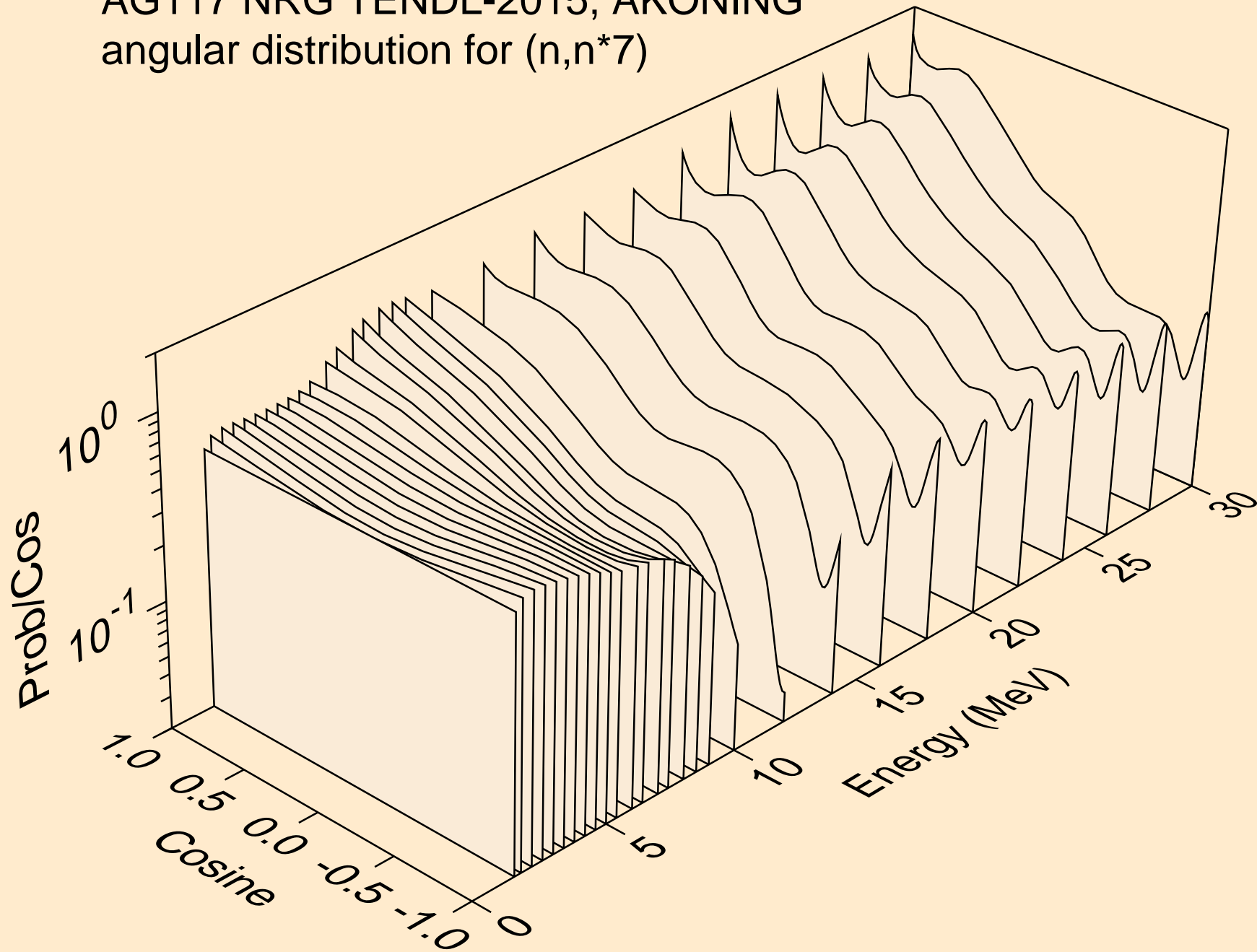AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*4)

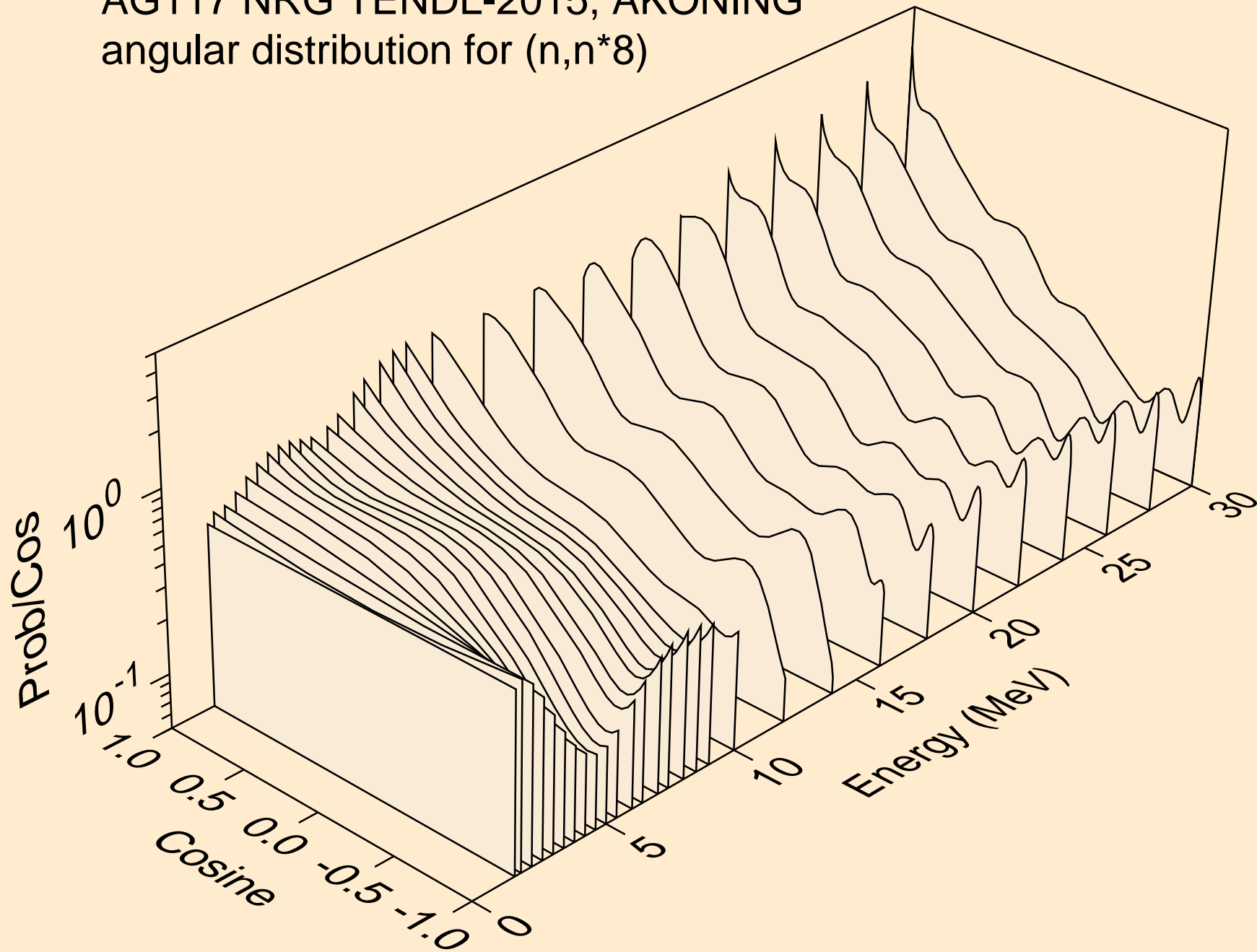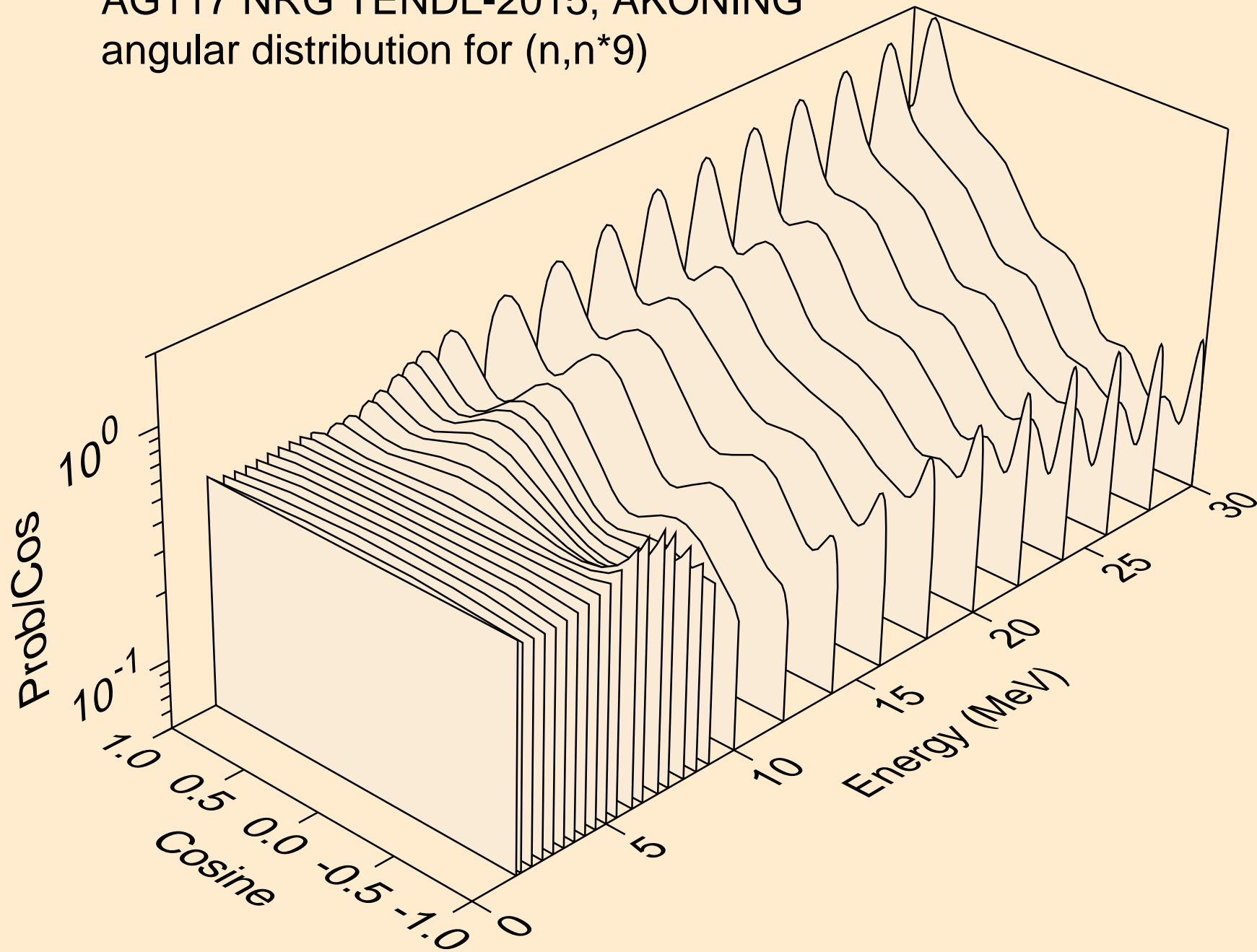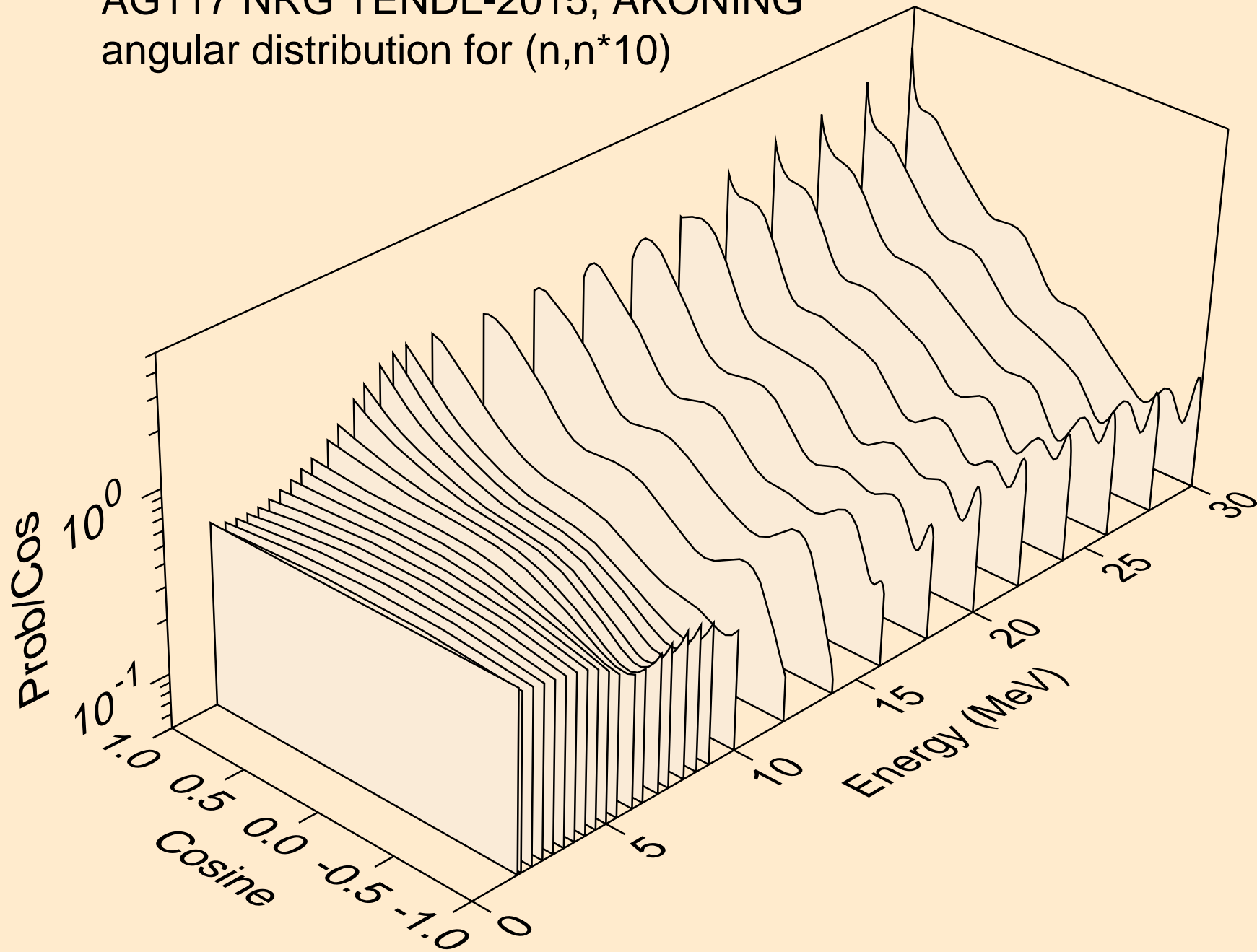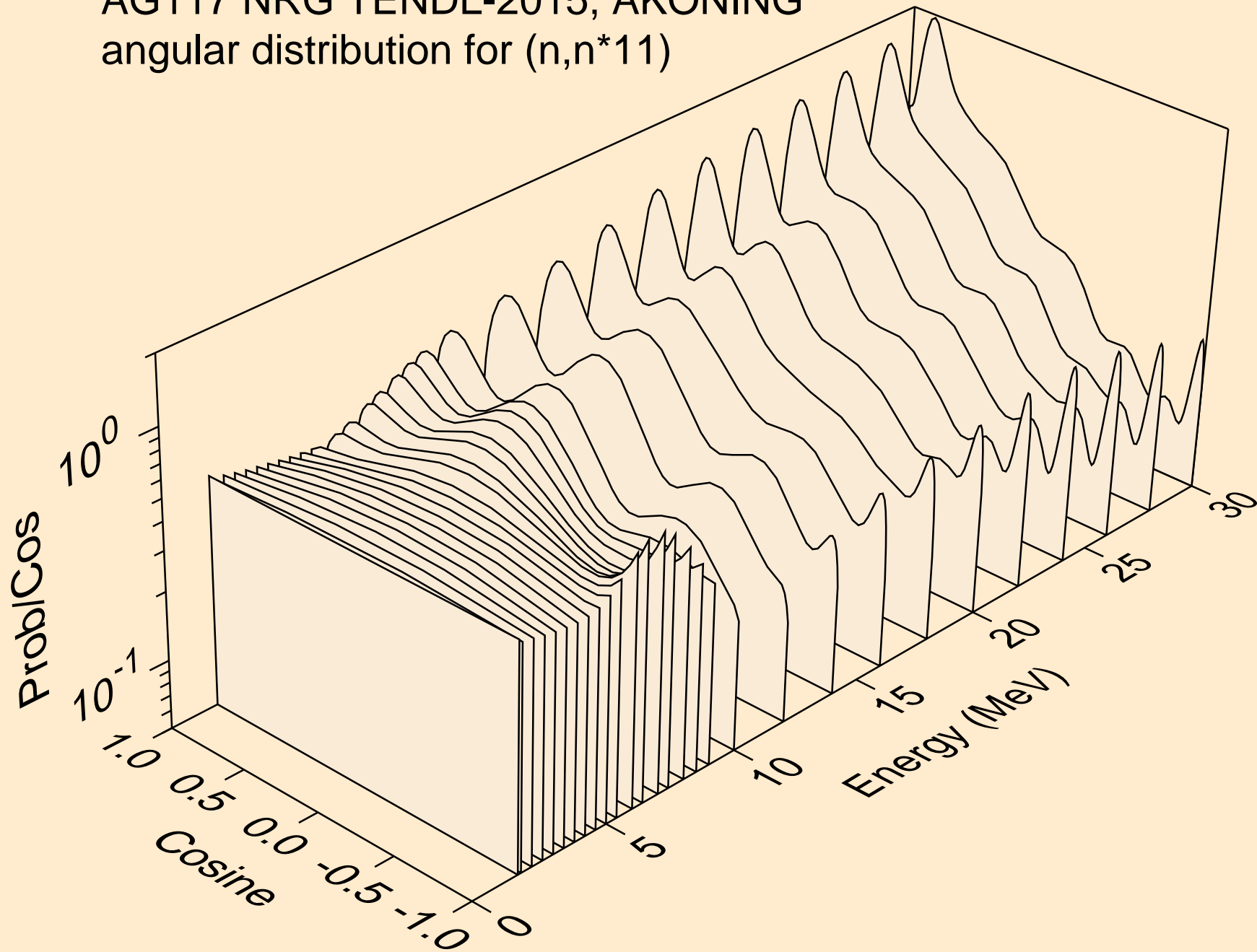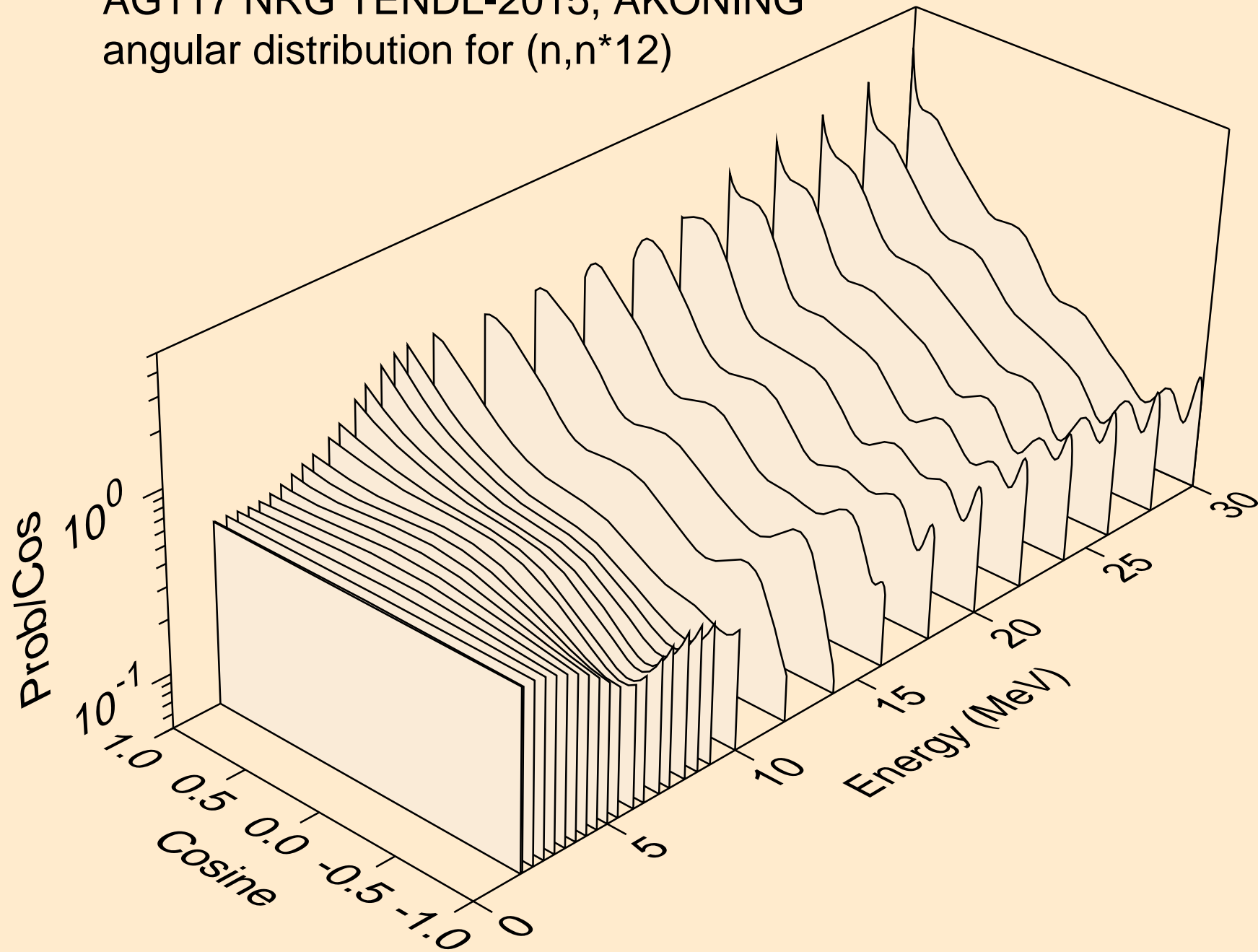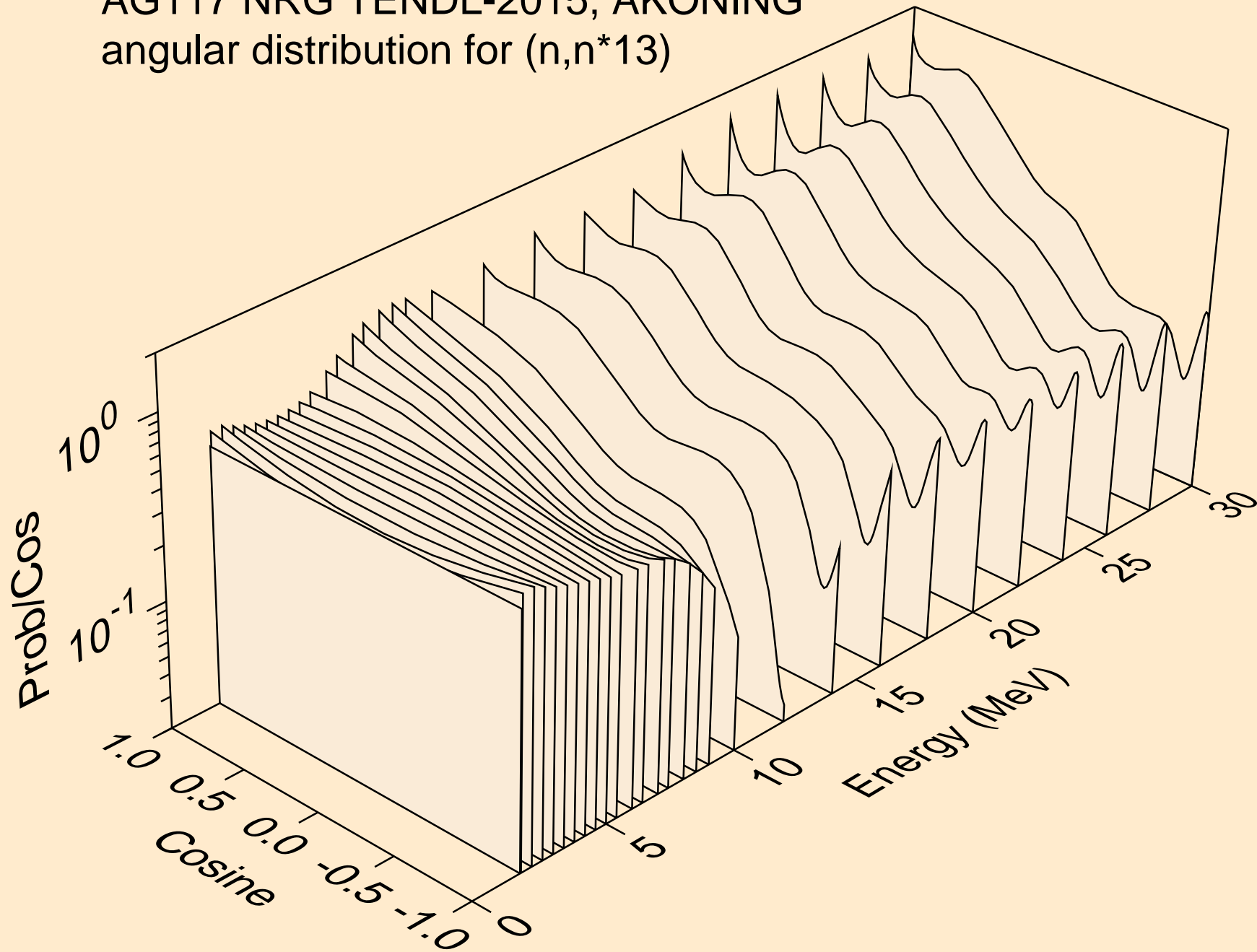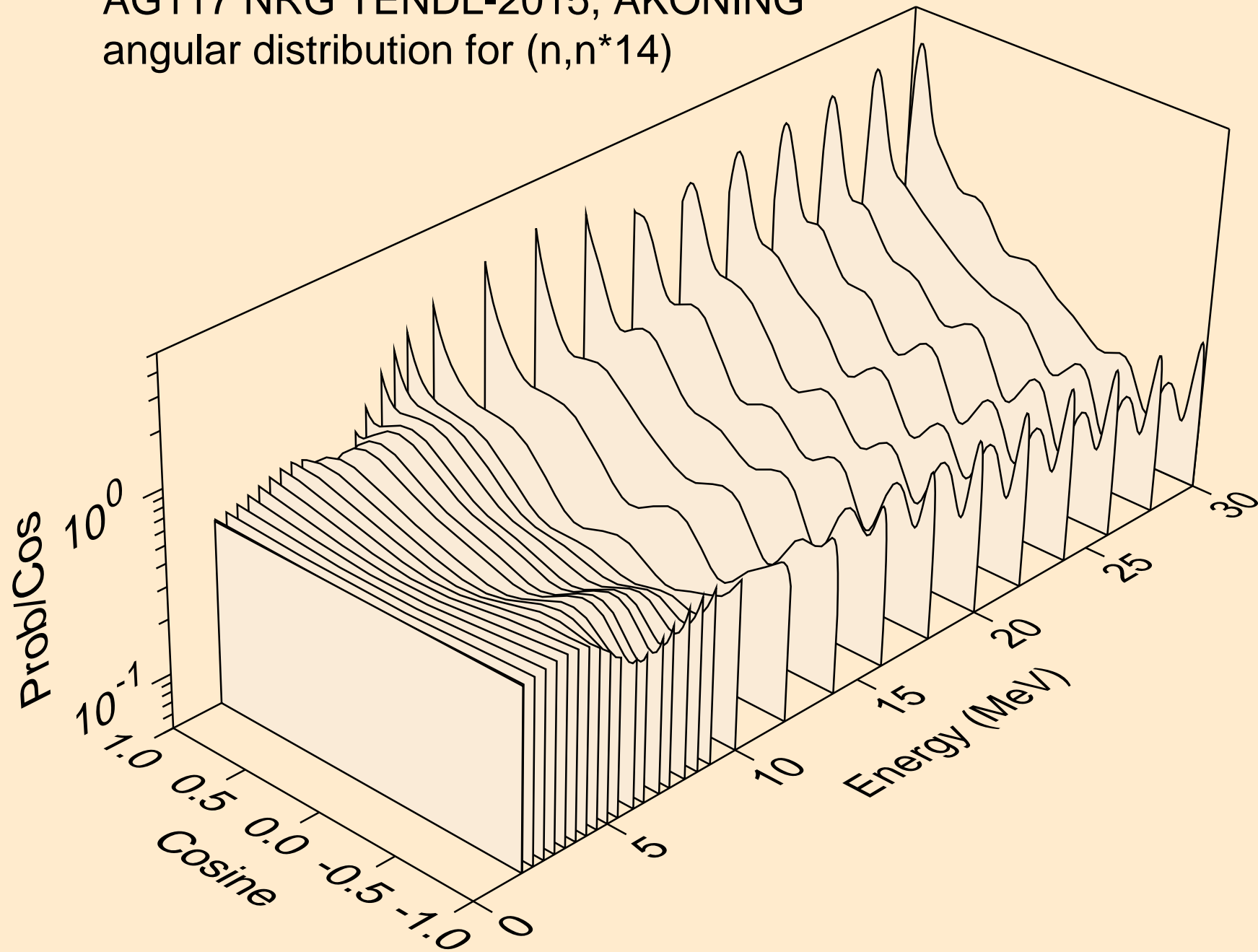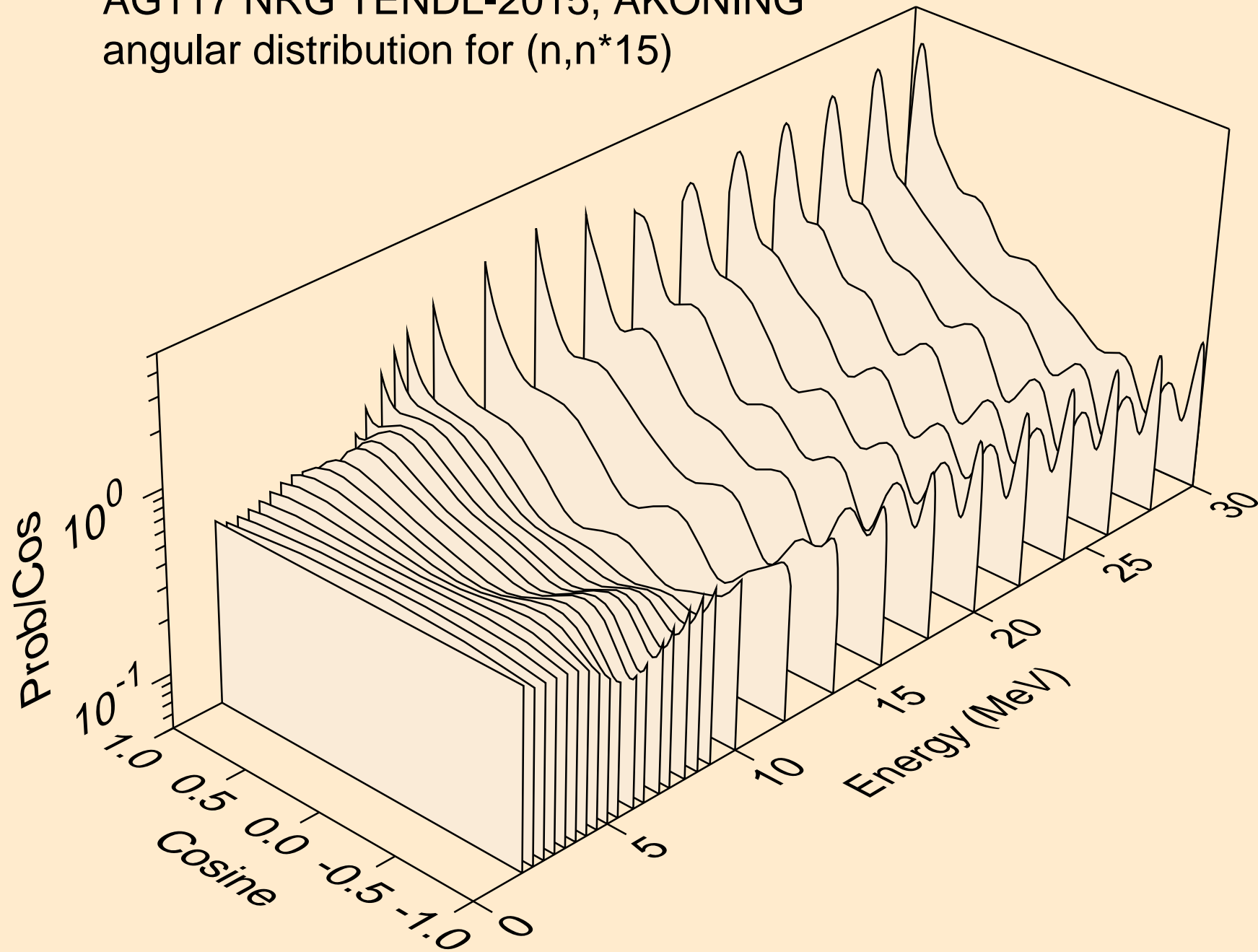AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*5)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*6)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*7)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*8)

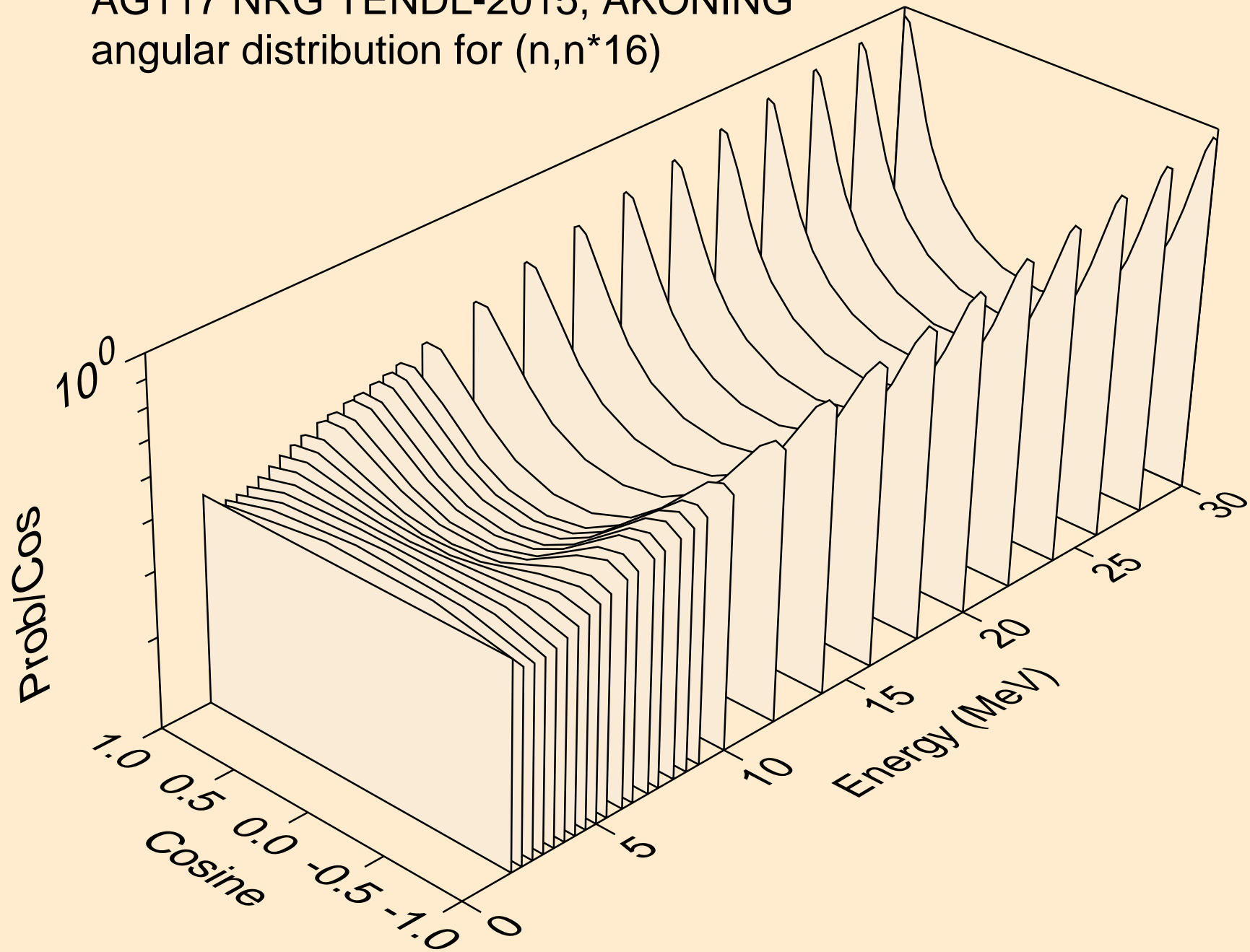AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*9)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*10)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*11)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*12)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*13)

AG117 NRG TENDL-2015, AKONING
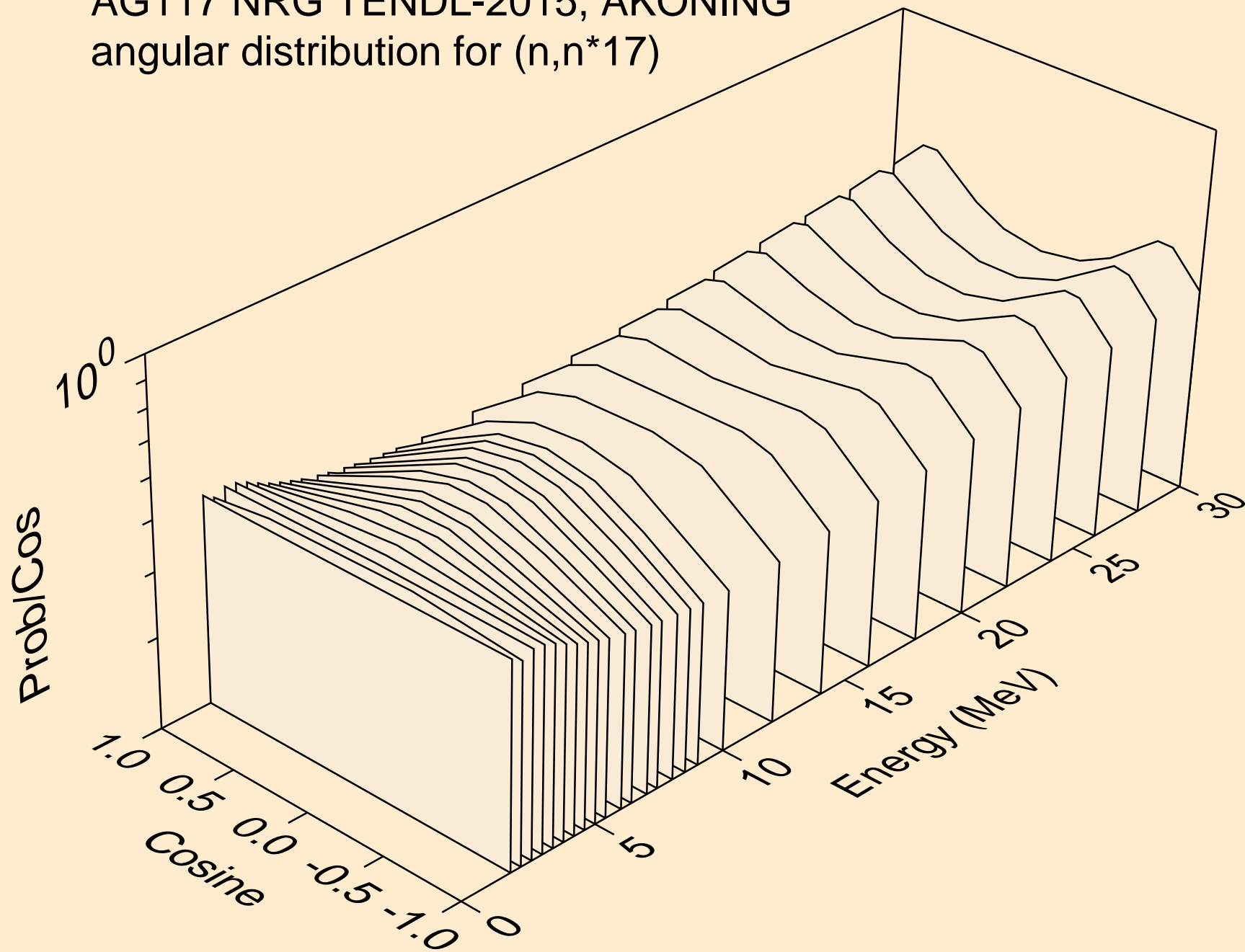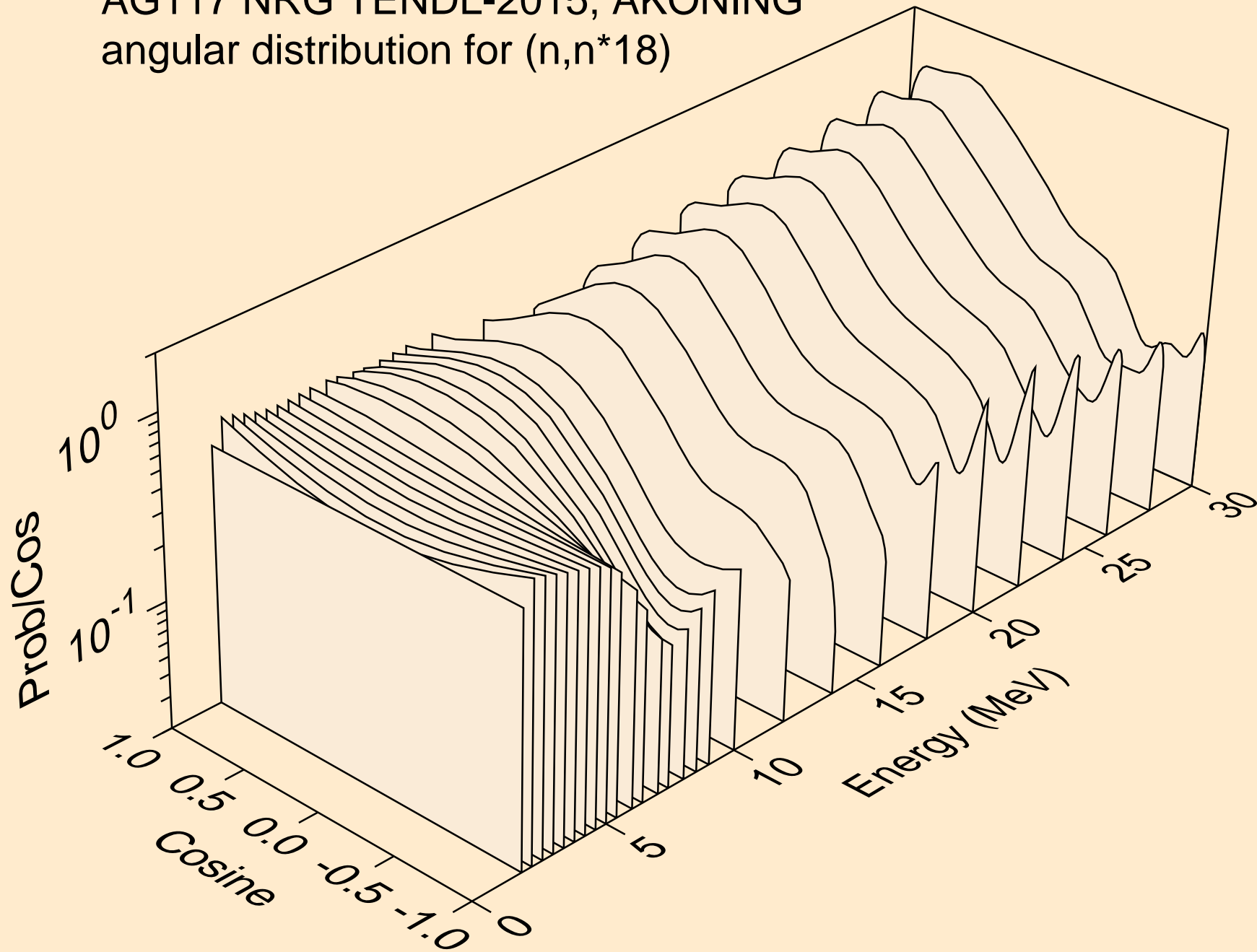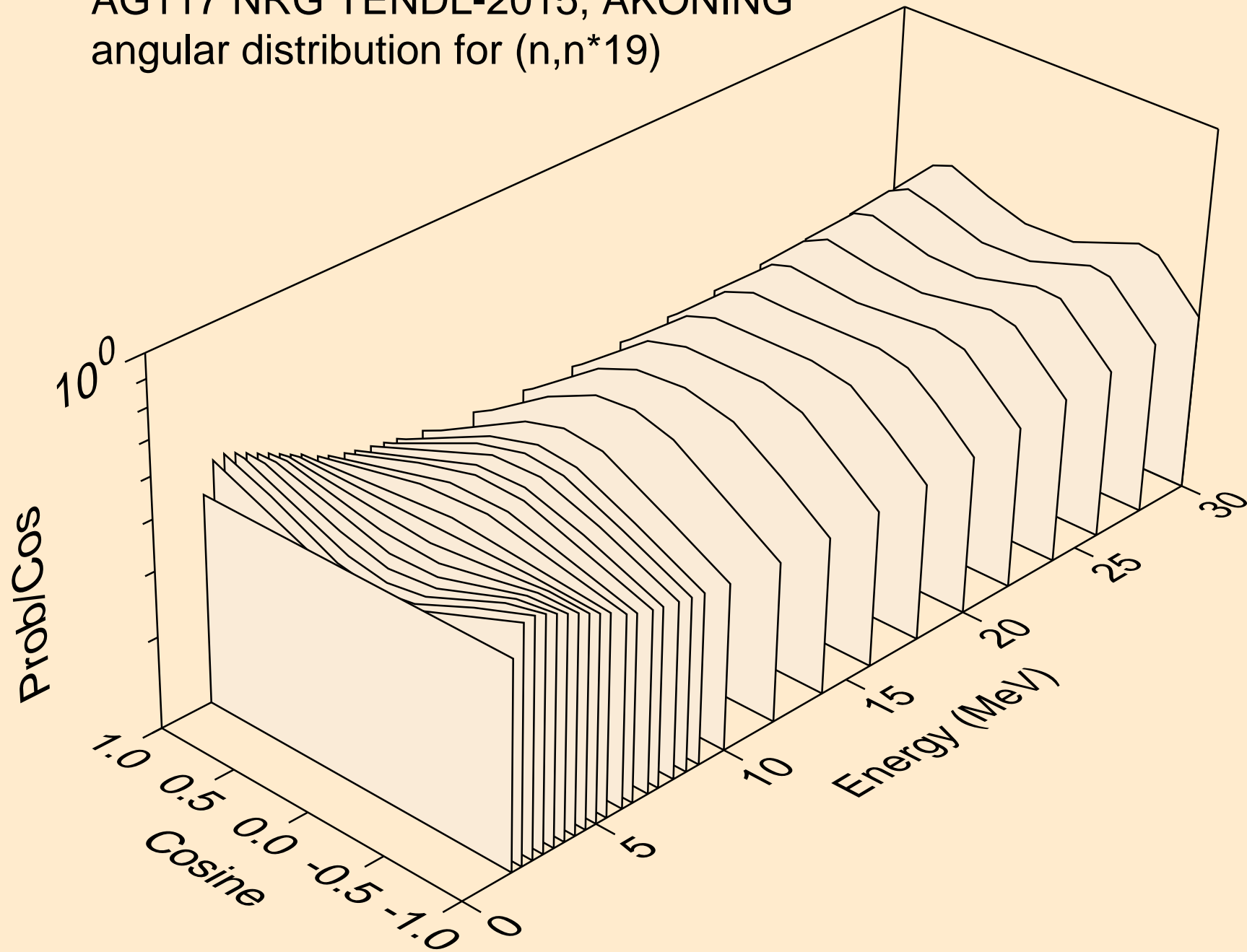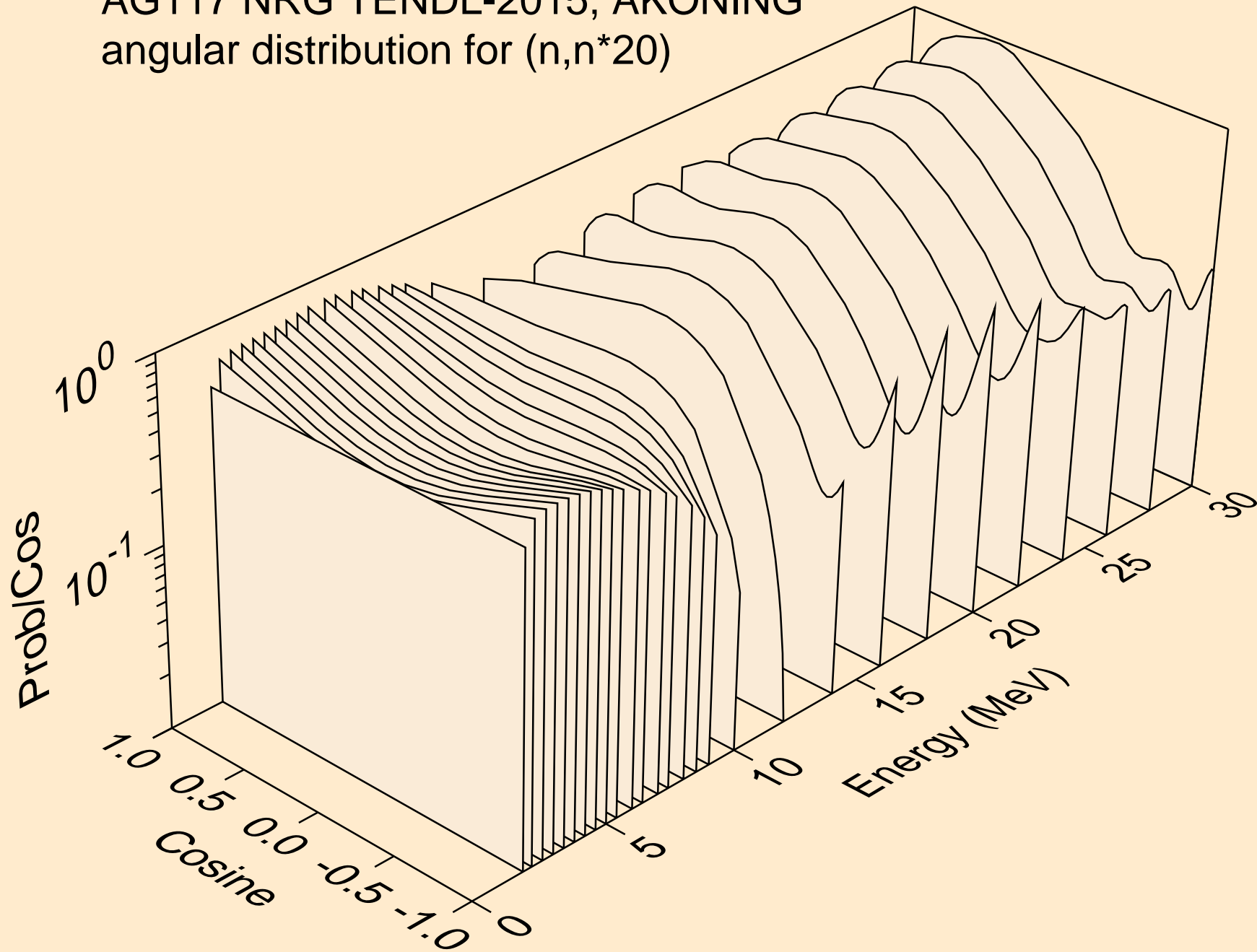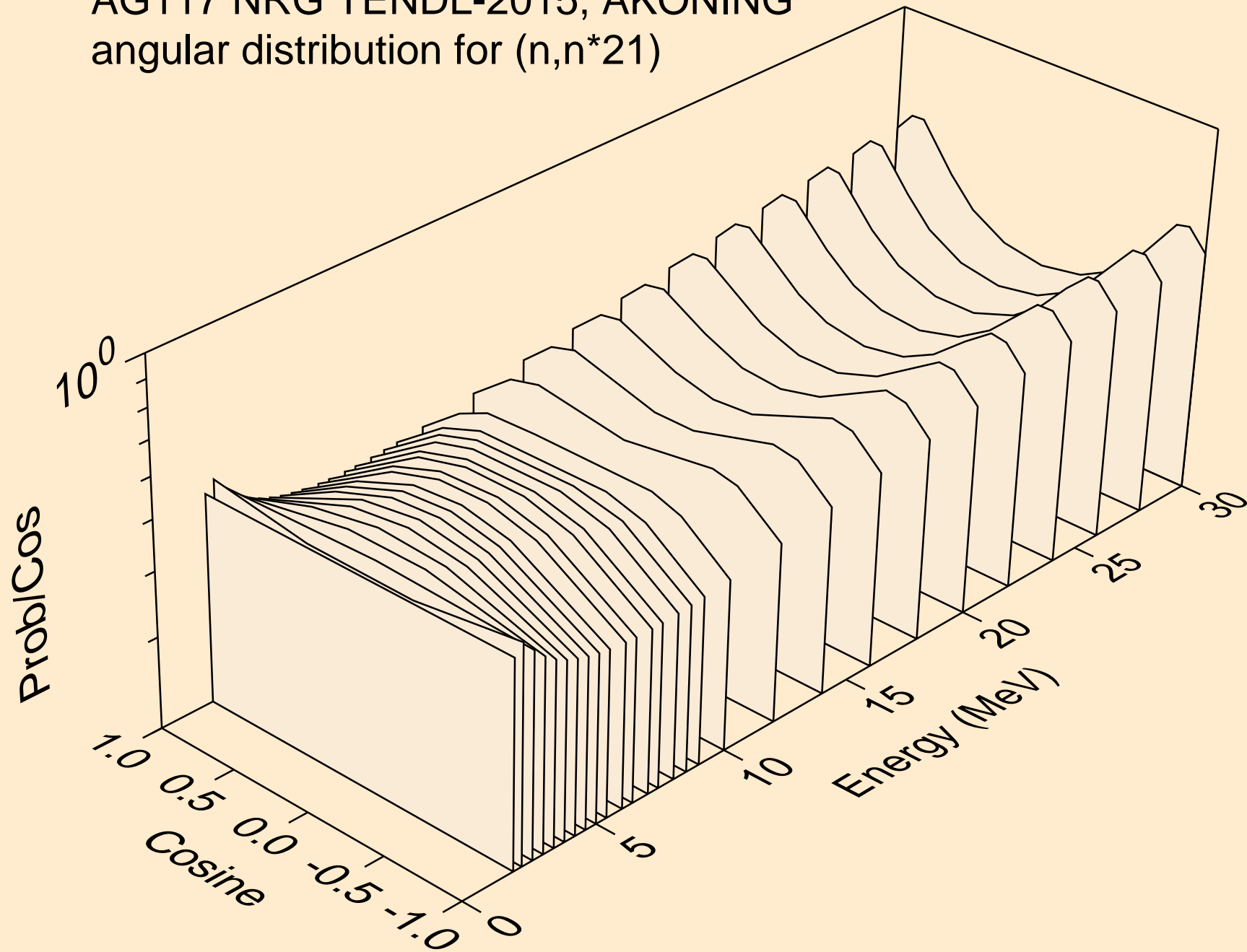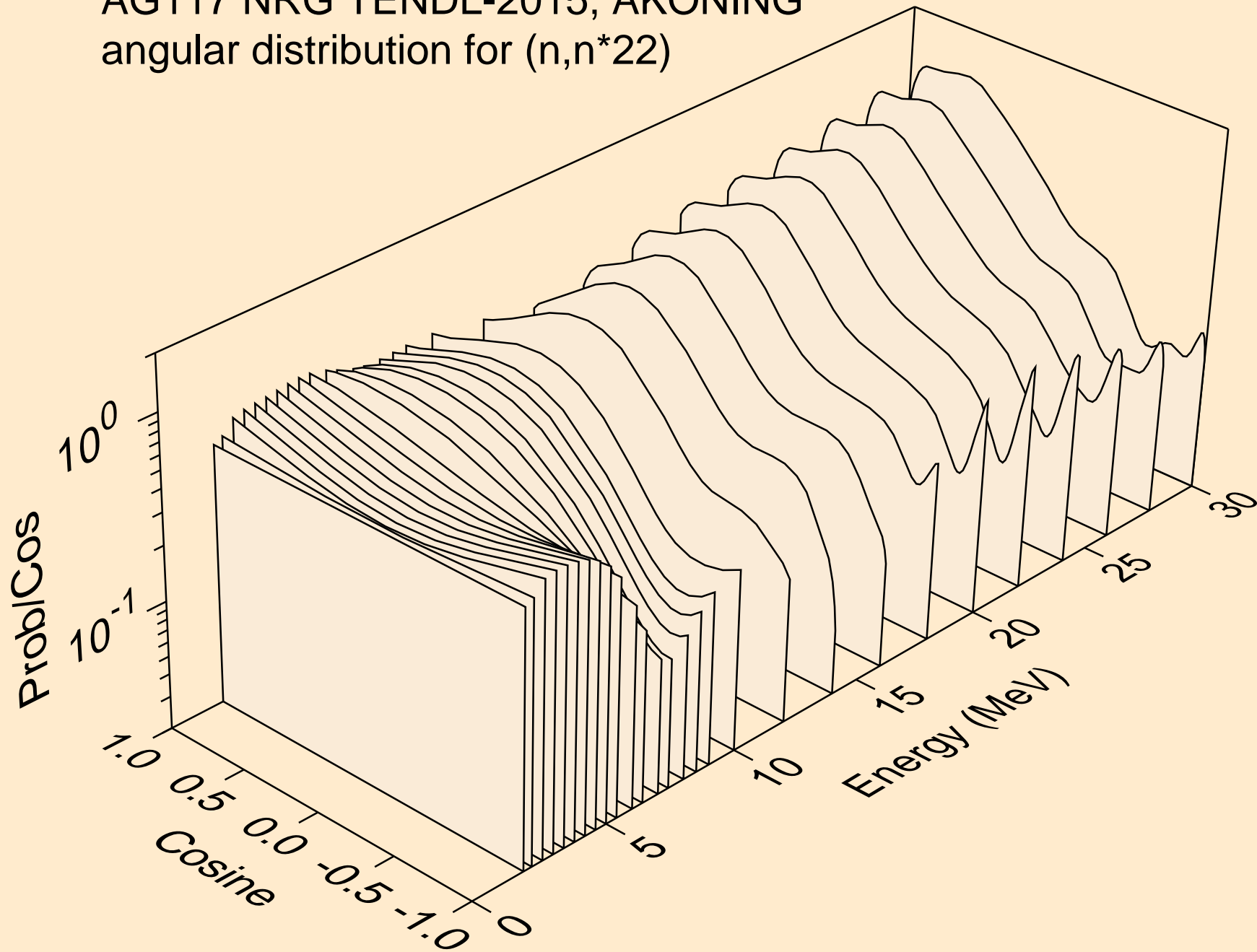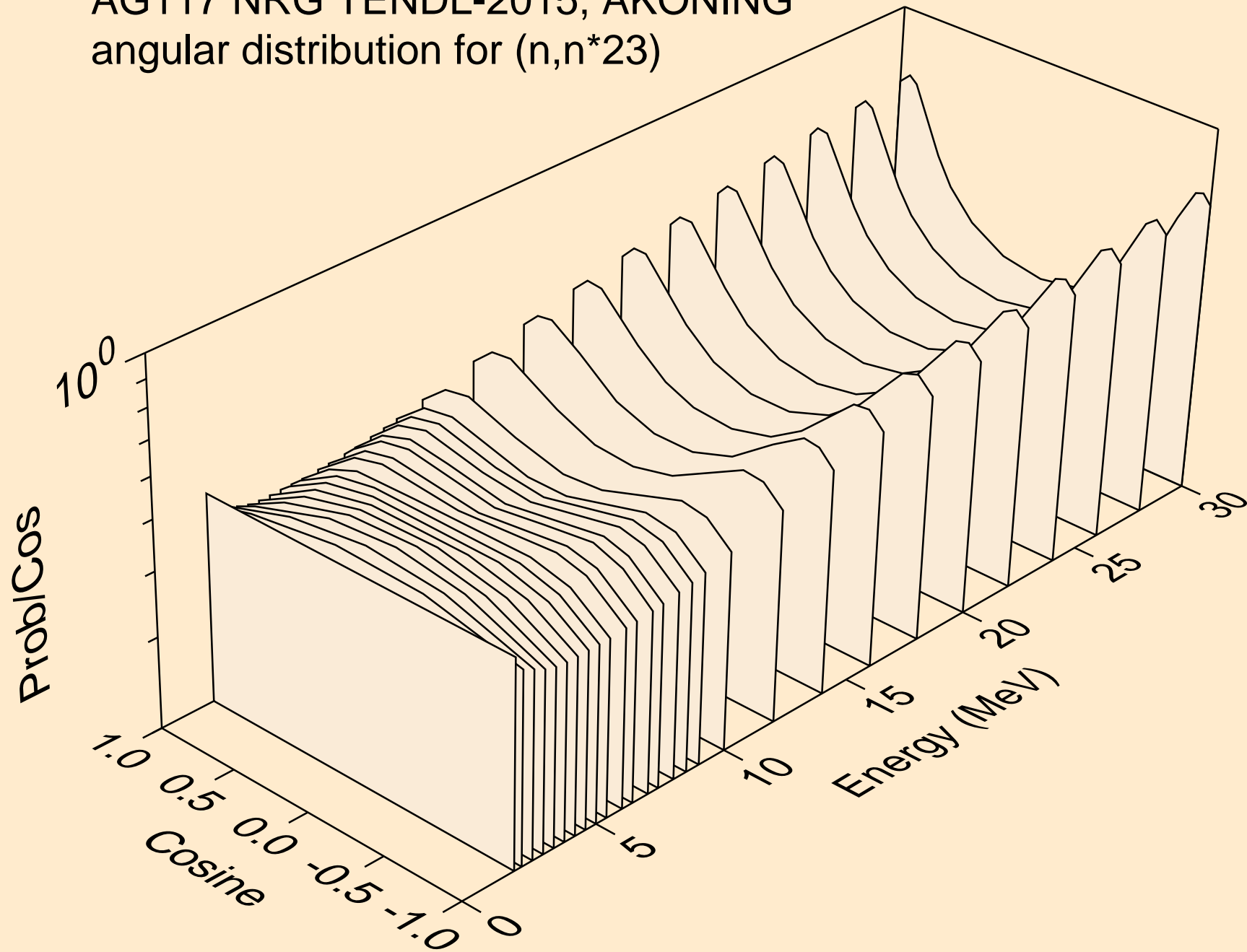angular distribution for (n,n*14)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*15)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*16)

AG117 NRG TENDL-2015, AKONING
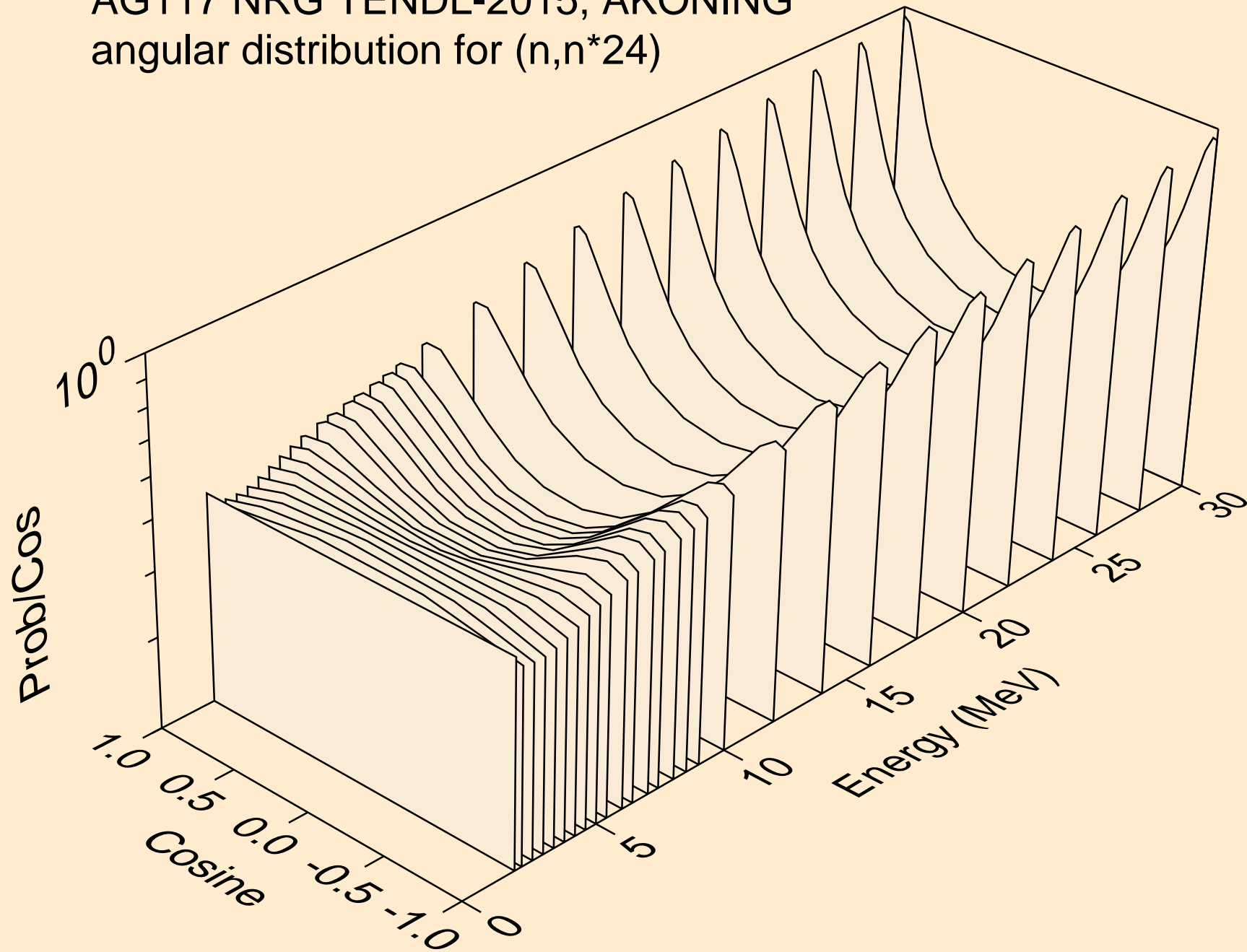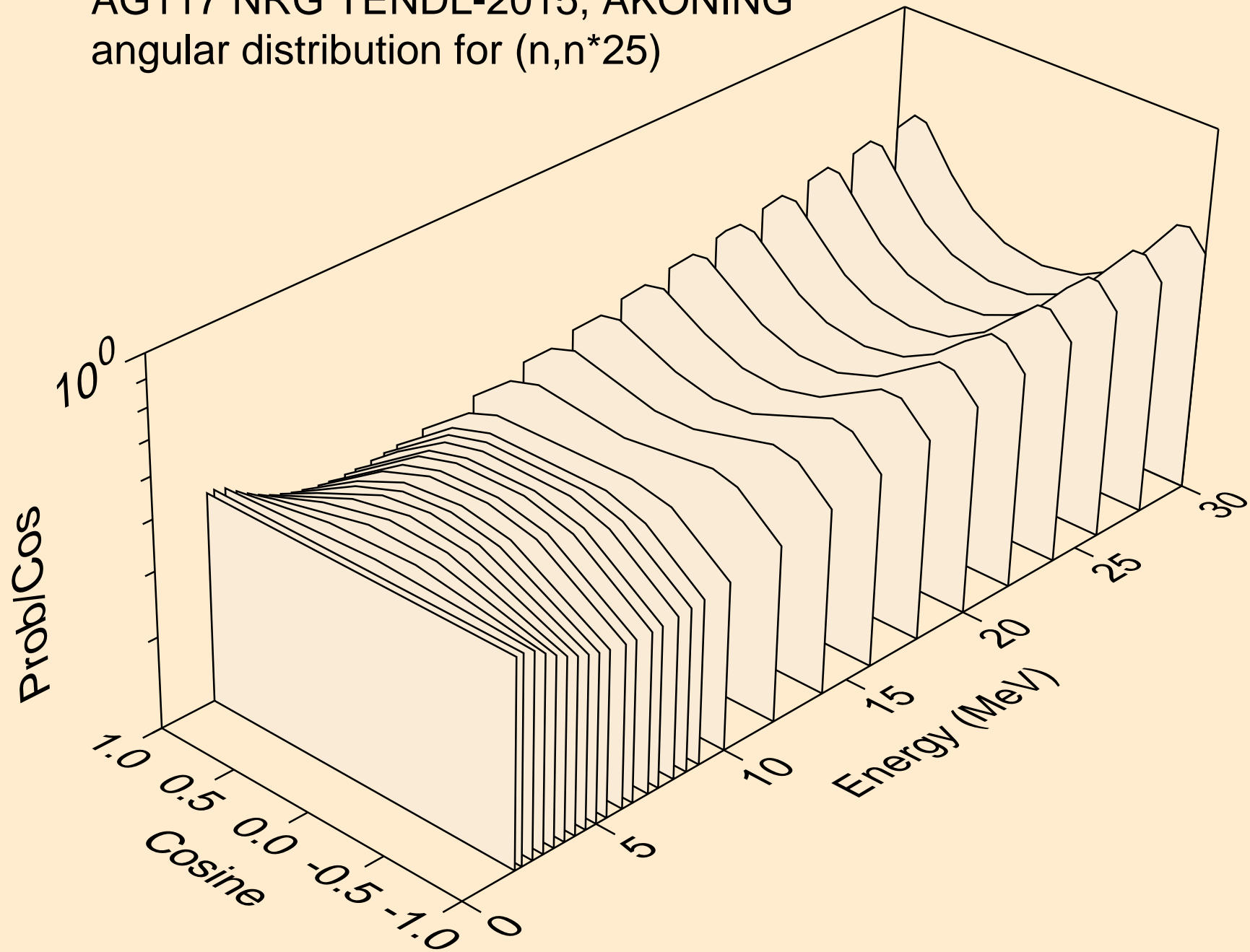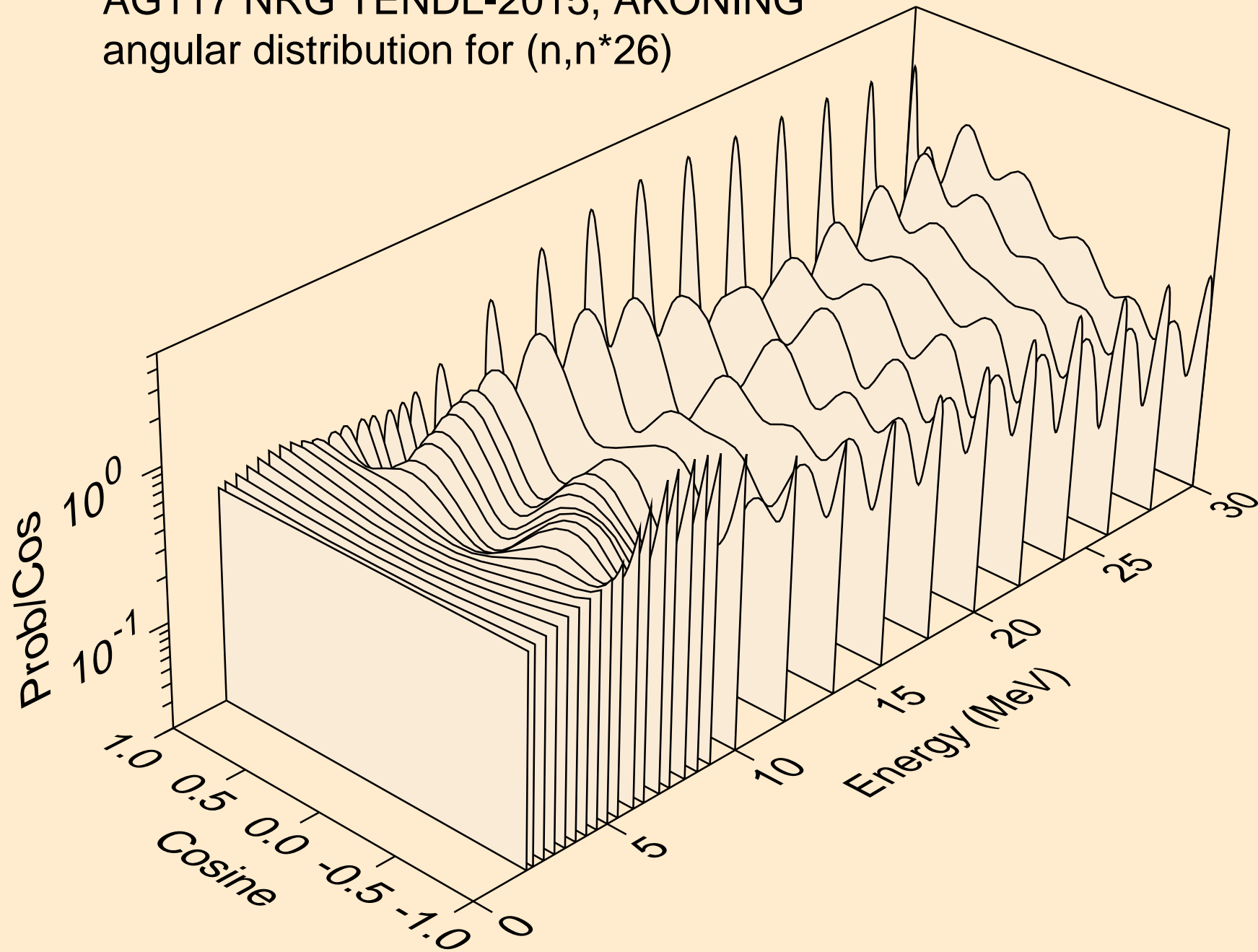angular distribution for (n,n*17)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*18)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*19)

ProbICos

Cosine

Energy (MeV)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*20)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*21)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*22)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*23)

AG117 NRG TENDL-2015, AKONING
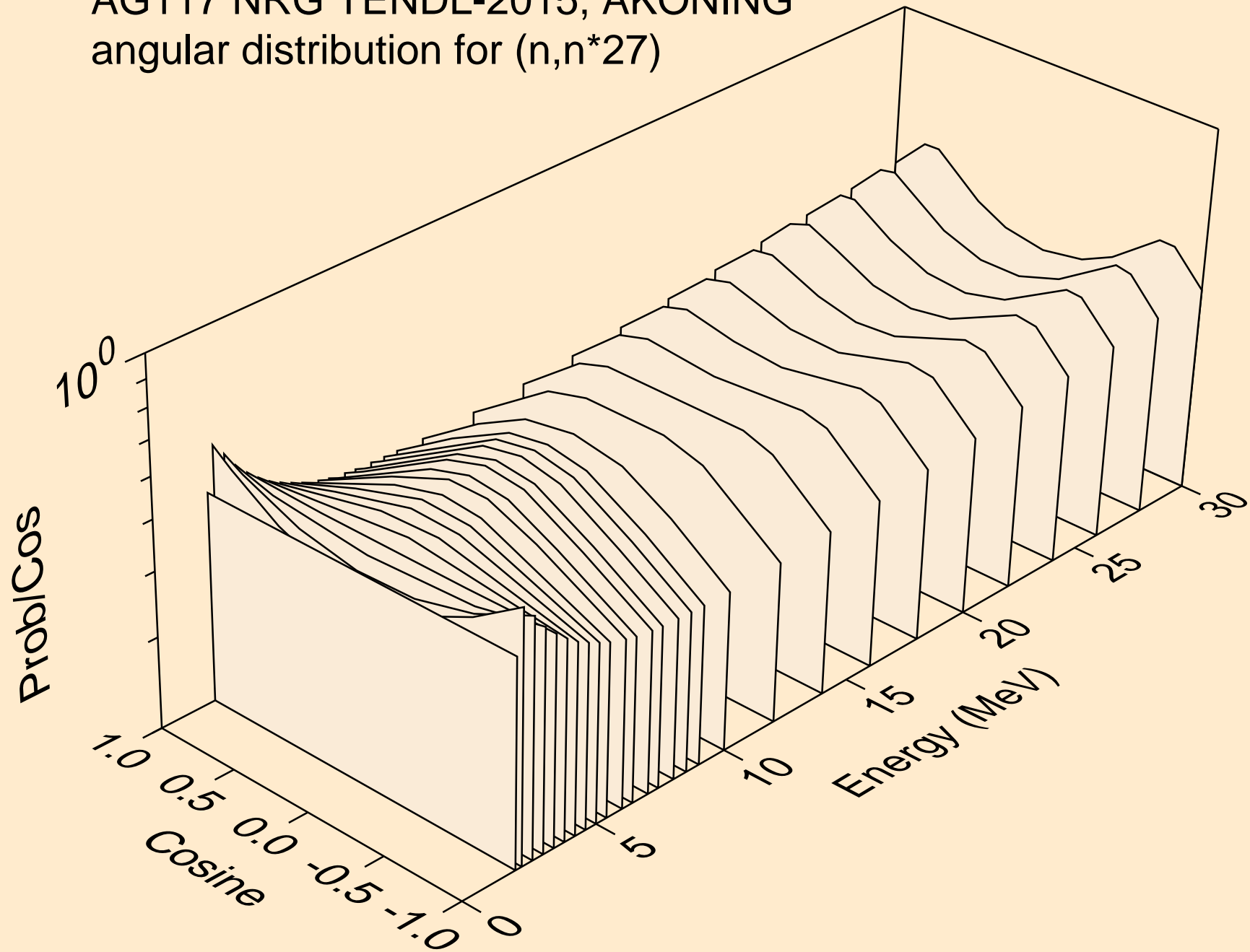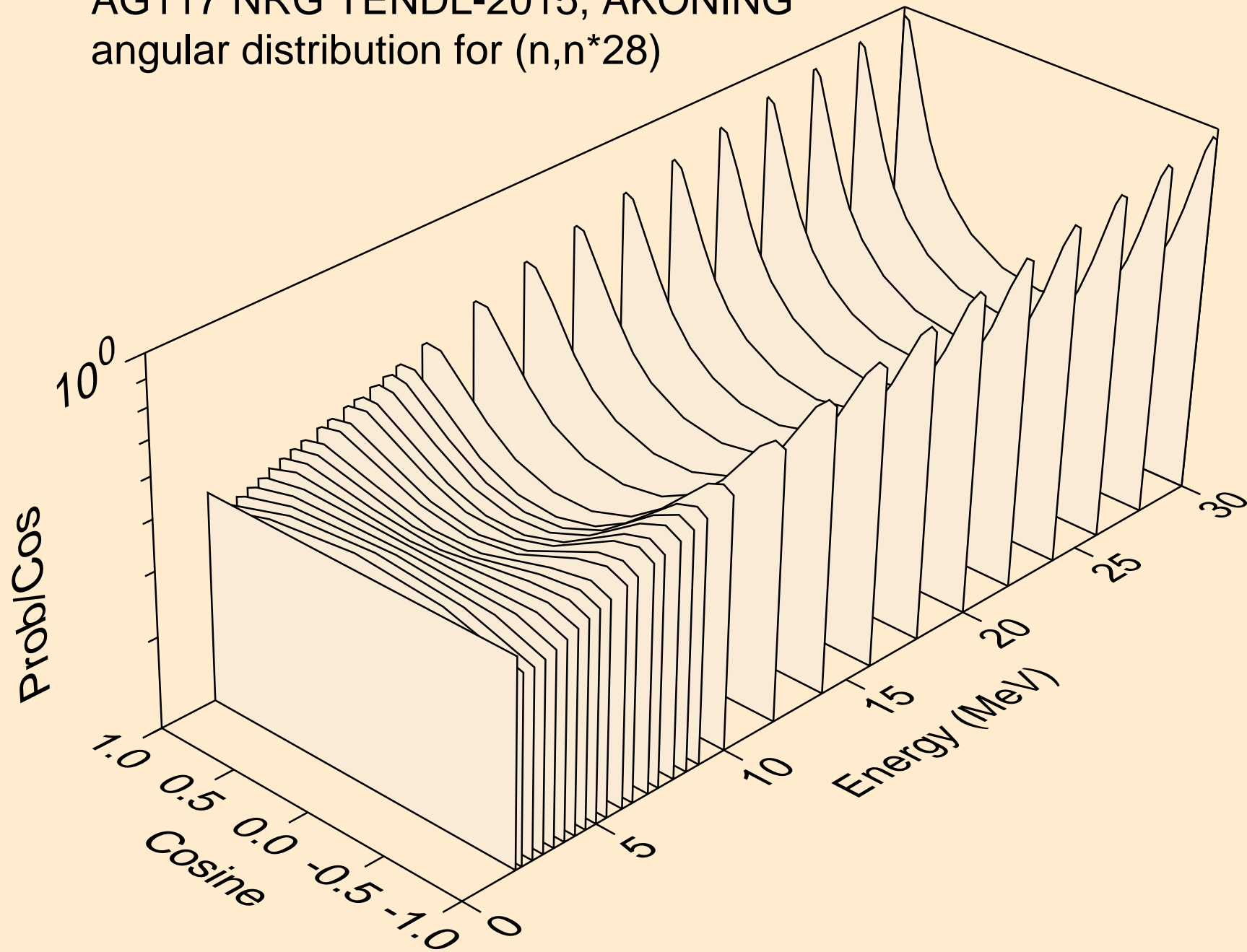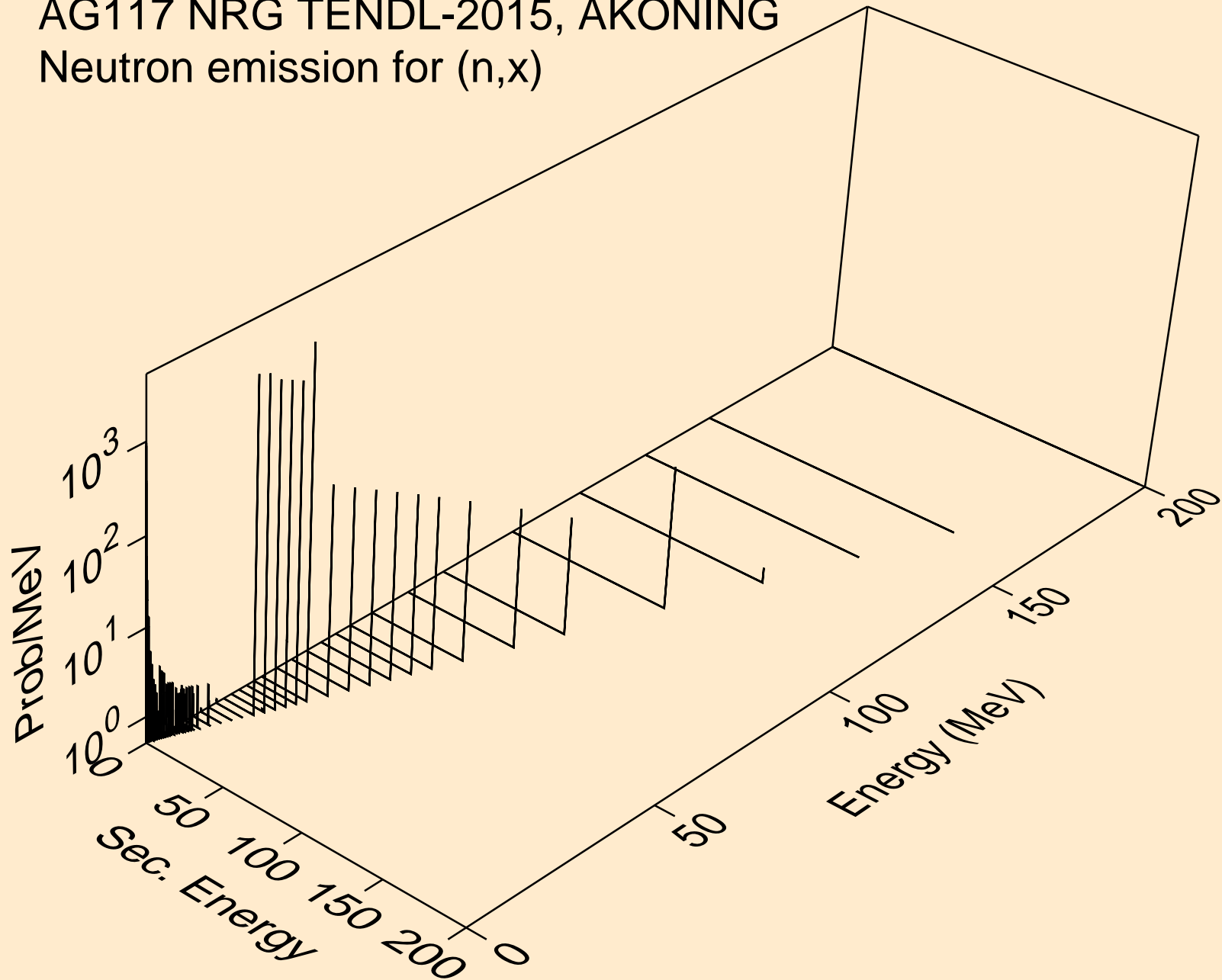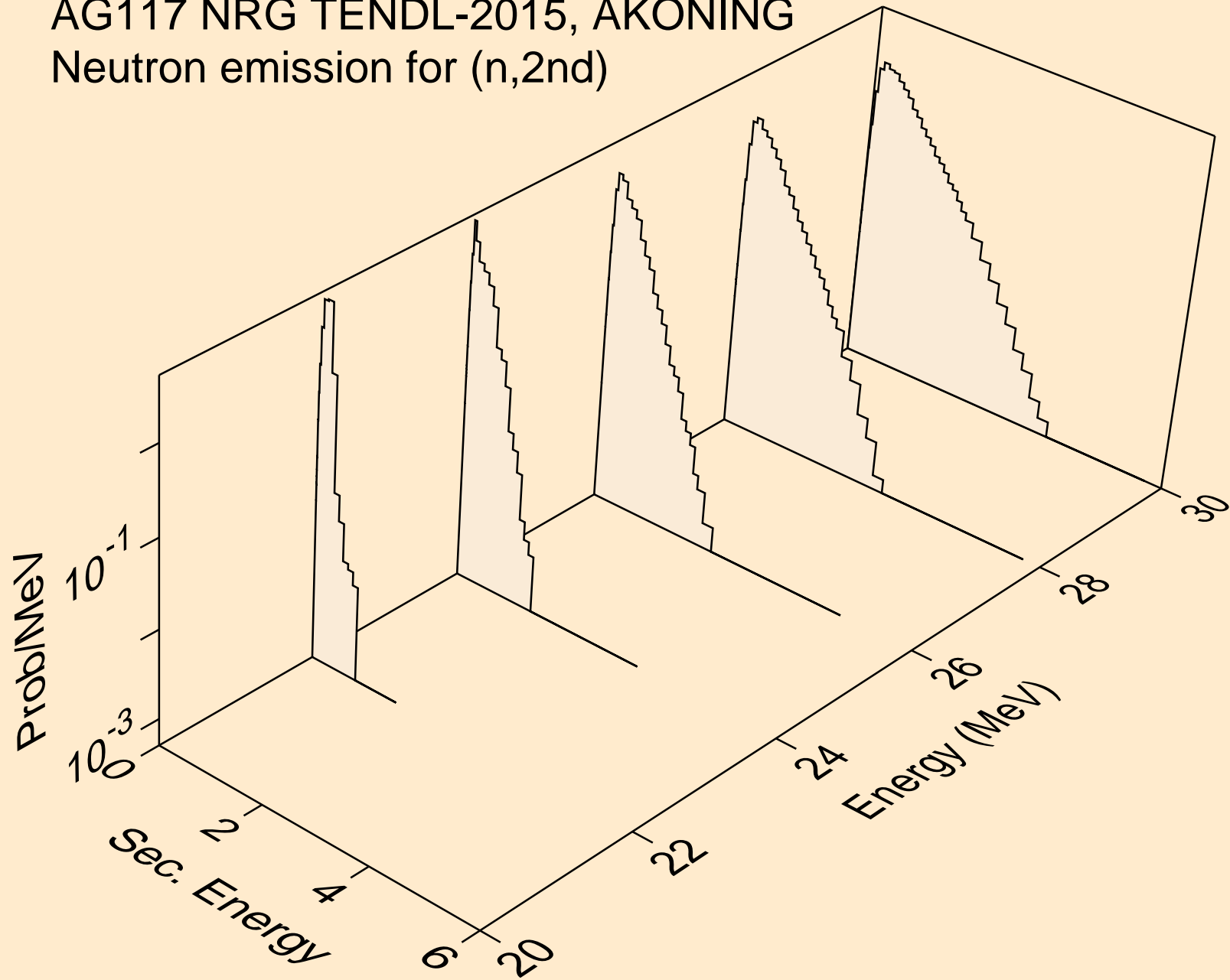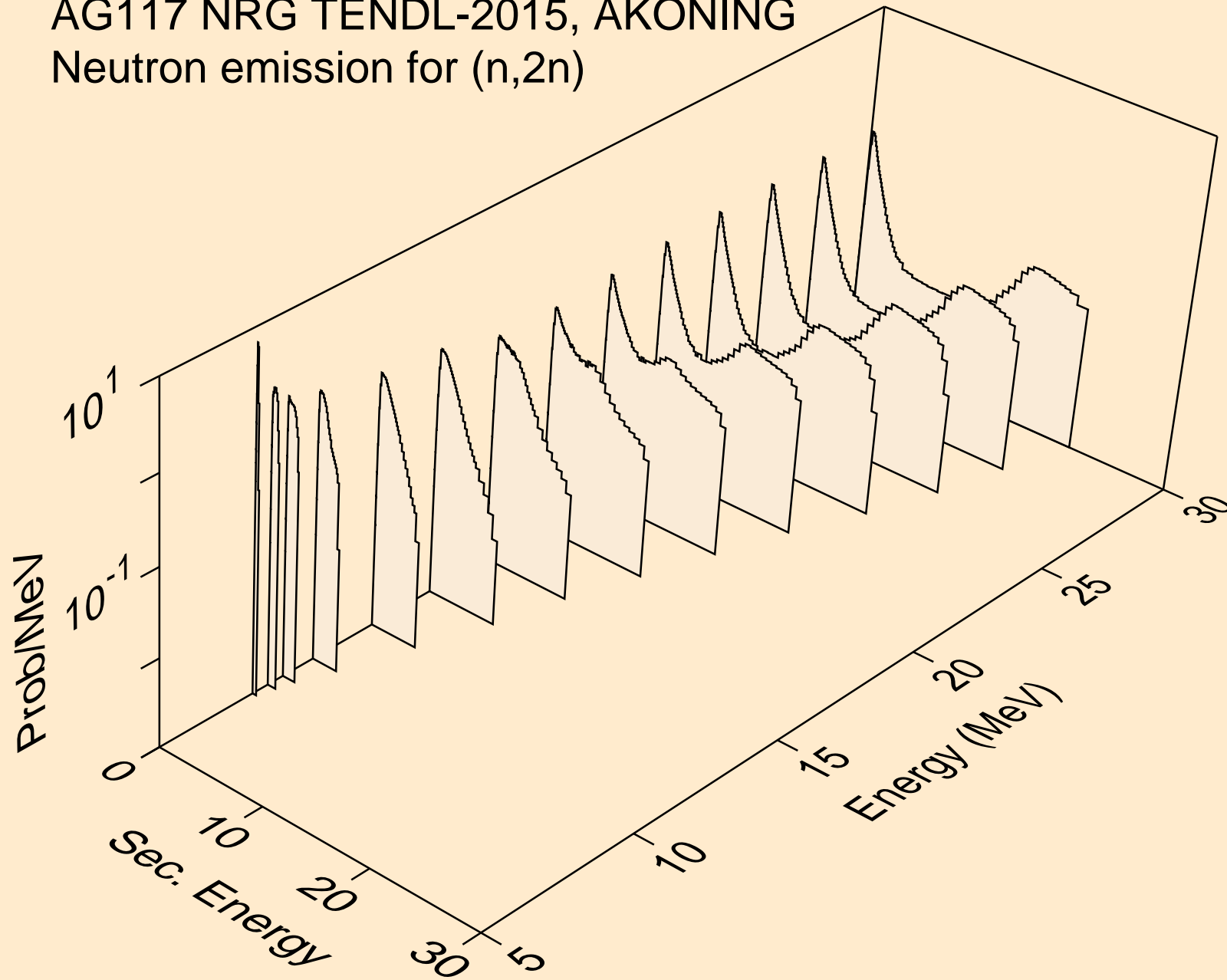angular distribution for (n,n*24)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*25)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*26)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*27)

AG117 NRG TENDL-2015, AKONING
angular distribution for (n,n*28)

AG117 NRG TENDL-2015, AKONING
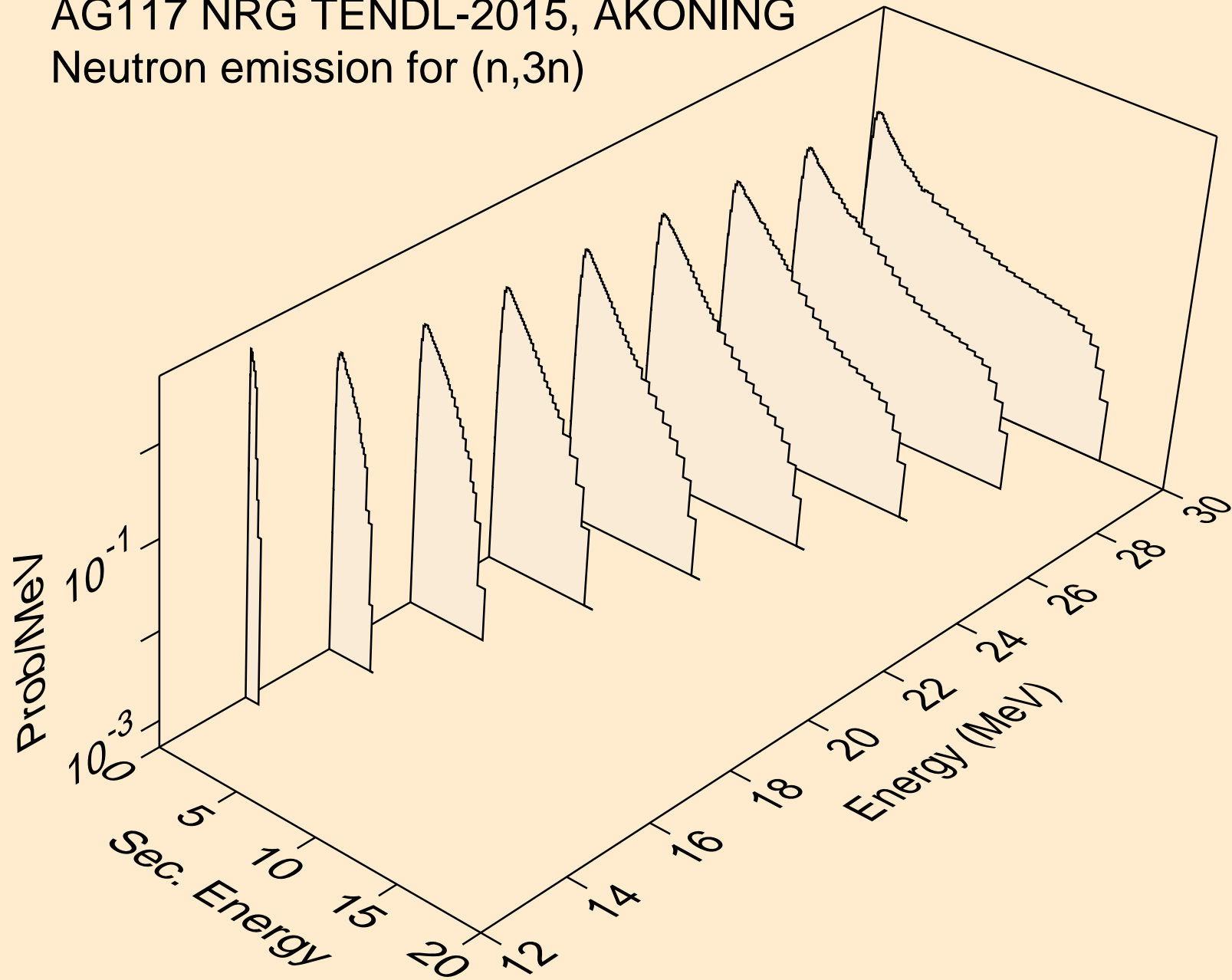Neutron emission for (n,x)

AG117 NRG TENDL-2015, AKONING
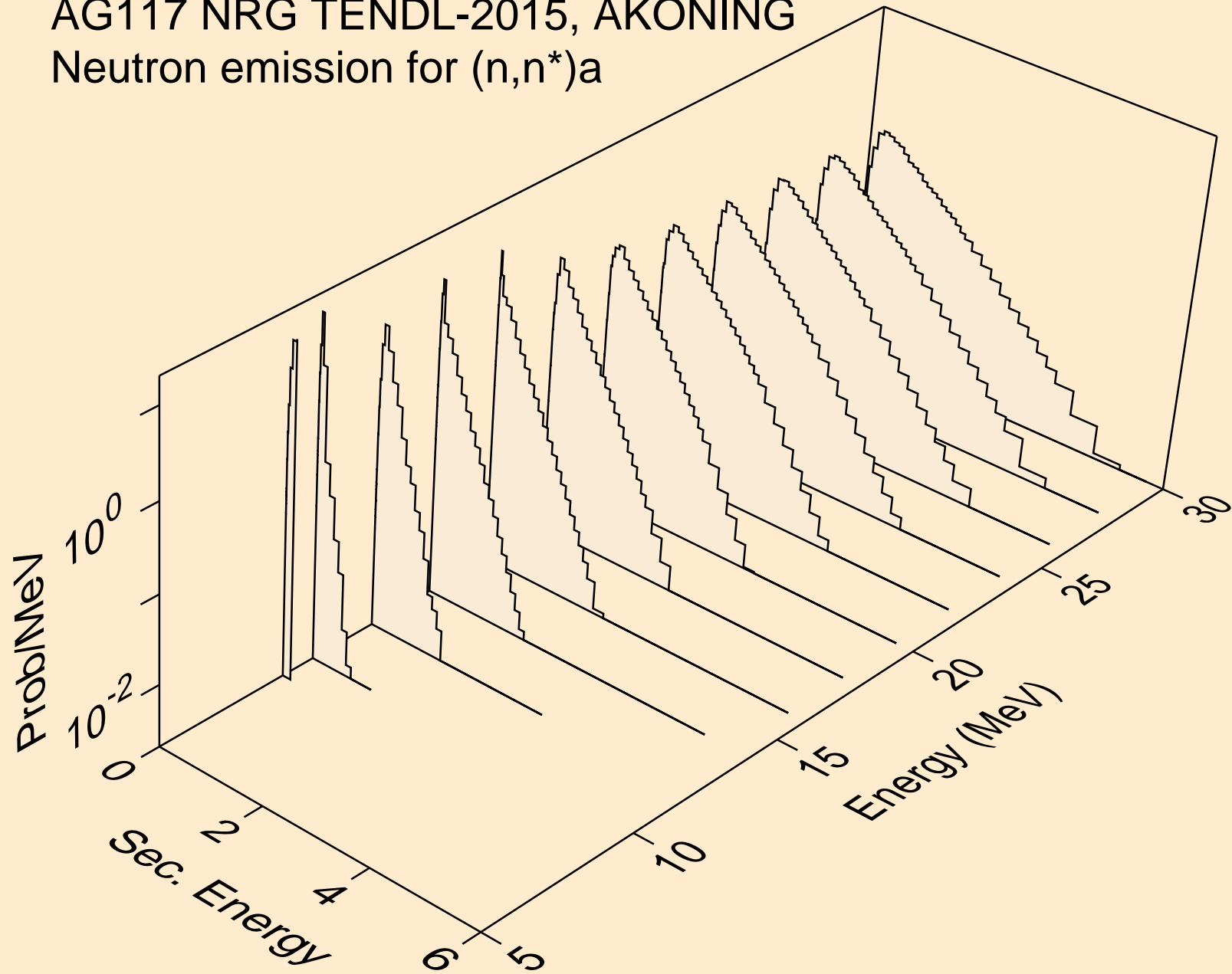Neutron emission for (n,2nd)

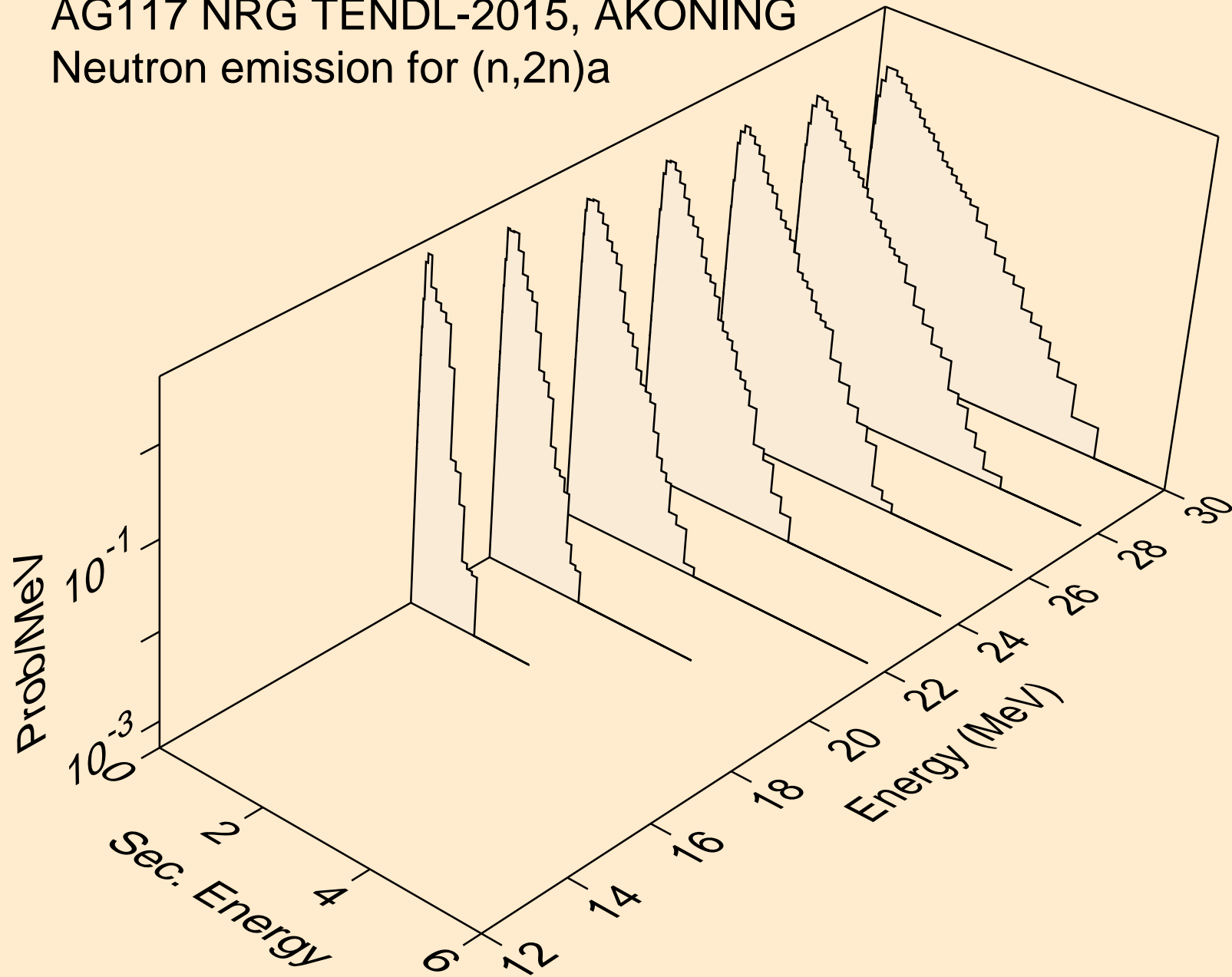AG117 NRG TENDL-2015, AKONING
Neutron emission for (n,2n)

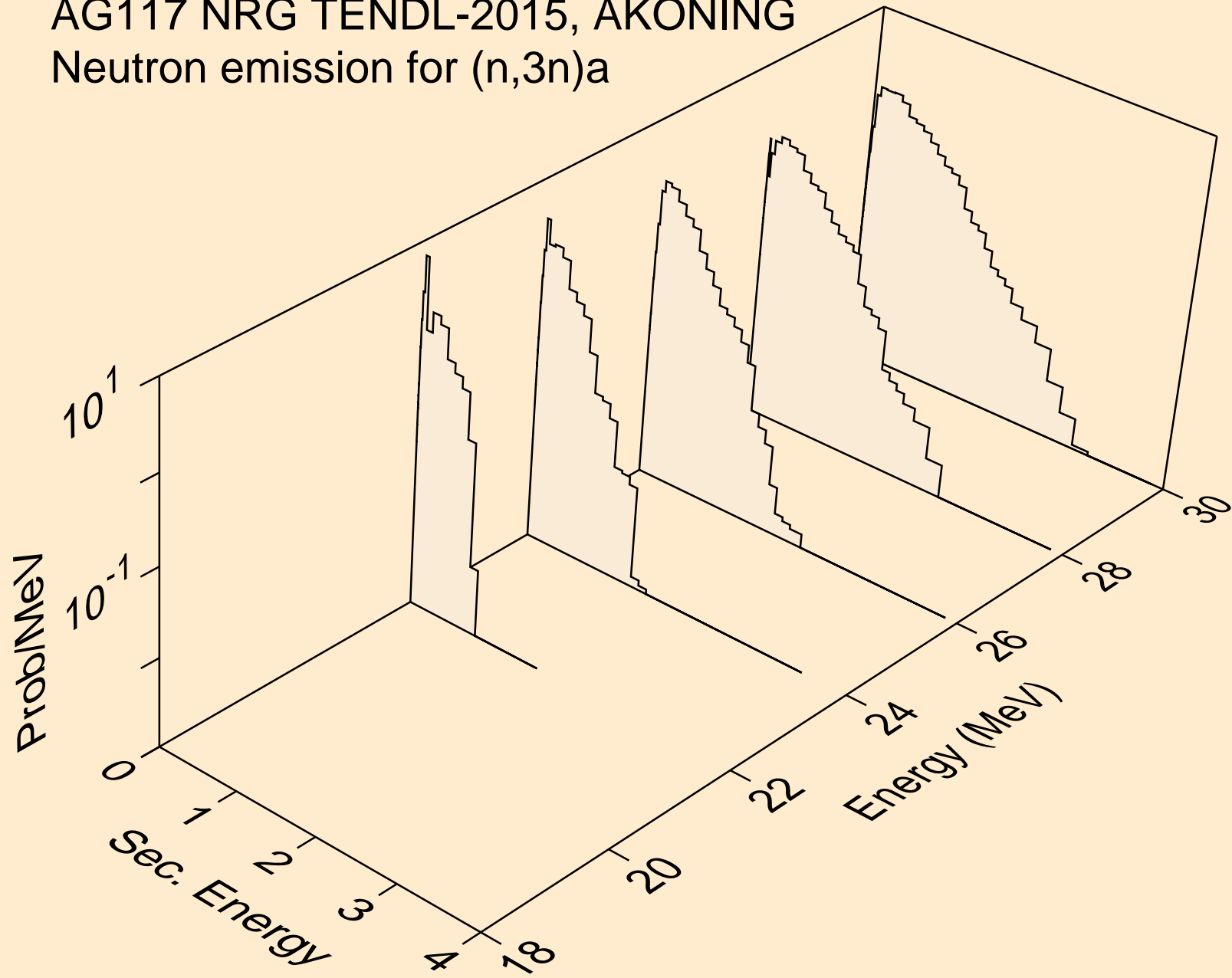AG117 NRG TENDL-2015, AKONING
Neutron emission for (n,3n)

AG117 NRG TENDL-2015, AKONING
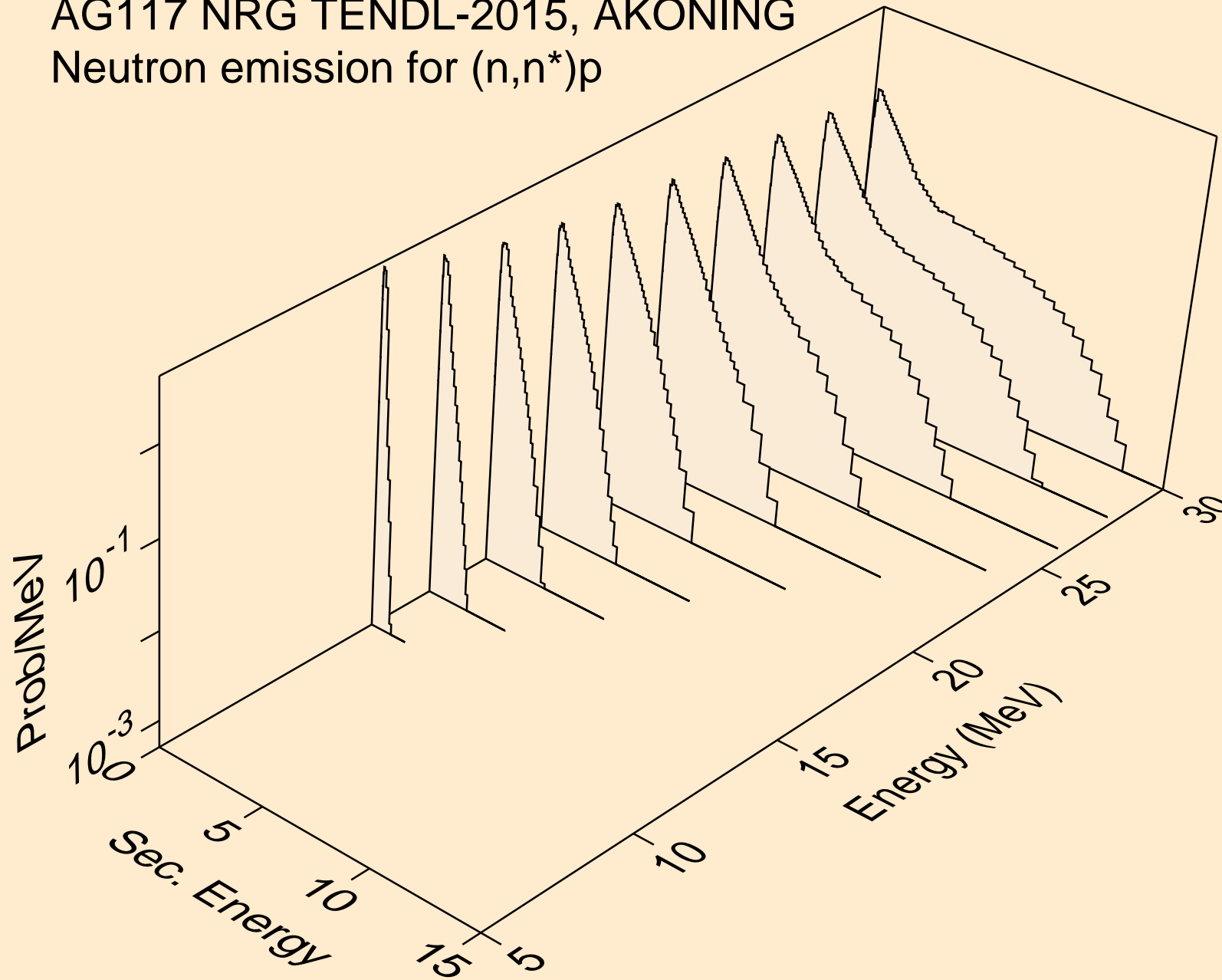Neutron emission for (n,n*)a

AG117 NRG TENDL-2015, AKONING
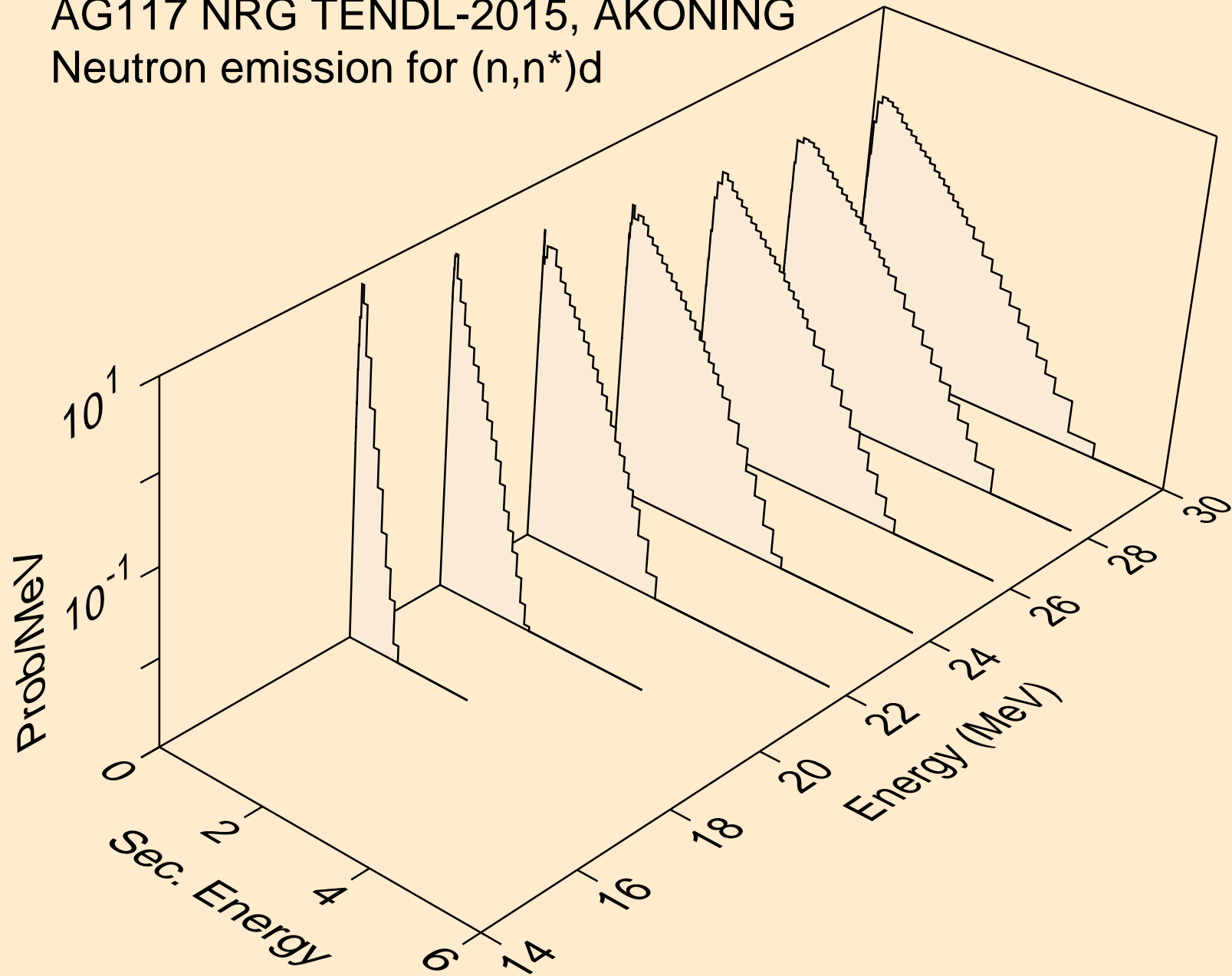Neutron emission for (n,2n)a

AG117 NRG TENDL-2015, AKONING
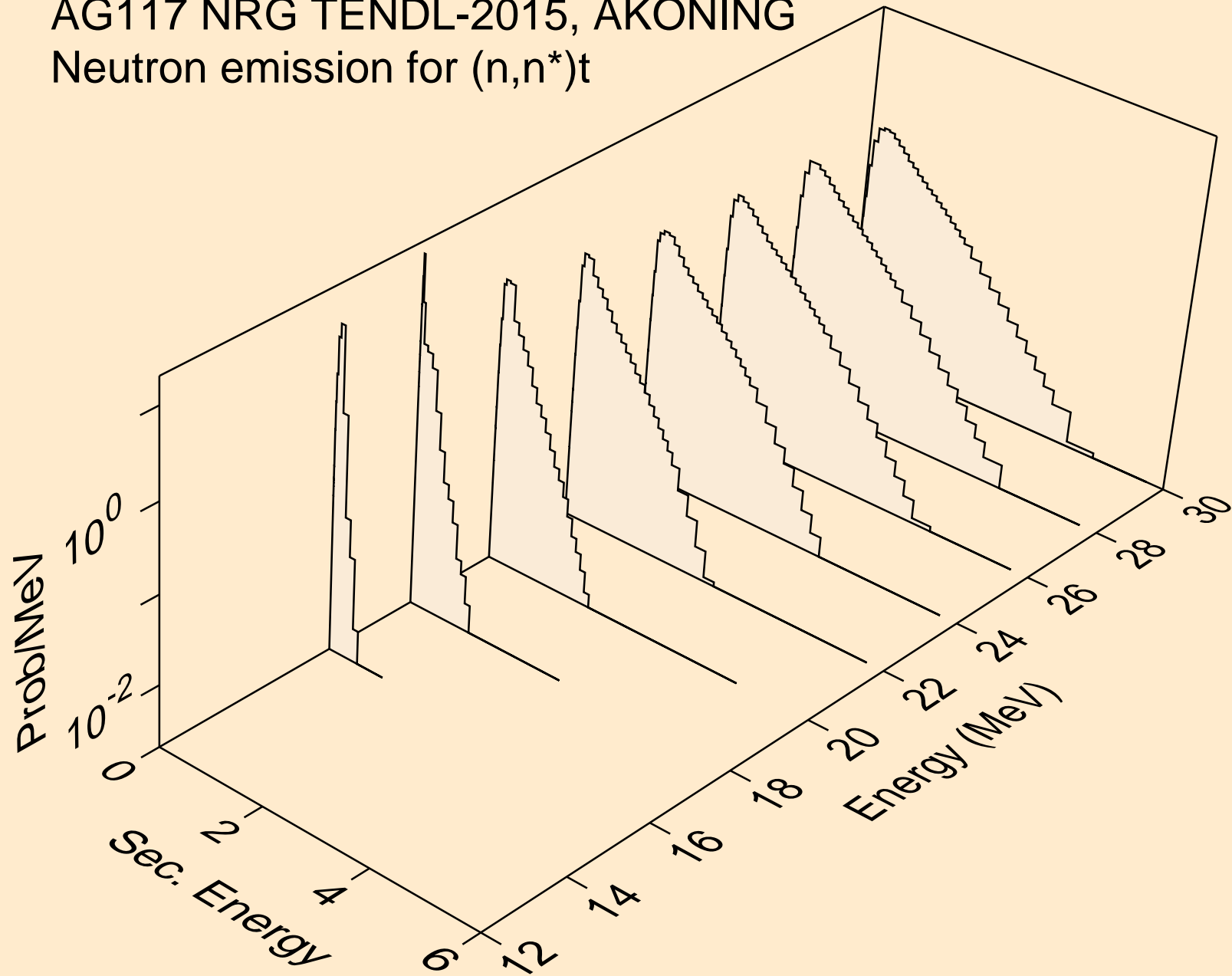Neutron emission for (n,3n)a

AG117 NRG TENDL-2015, AKONING
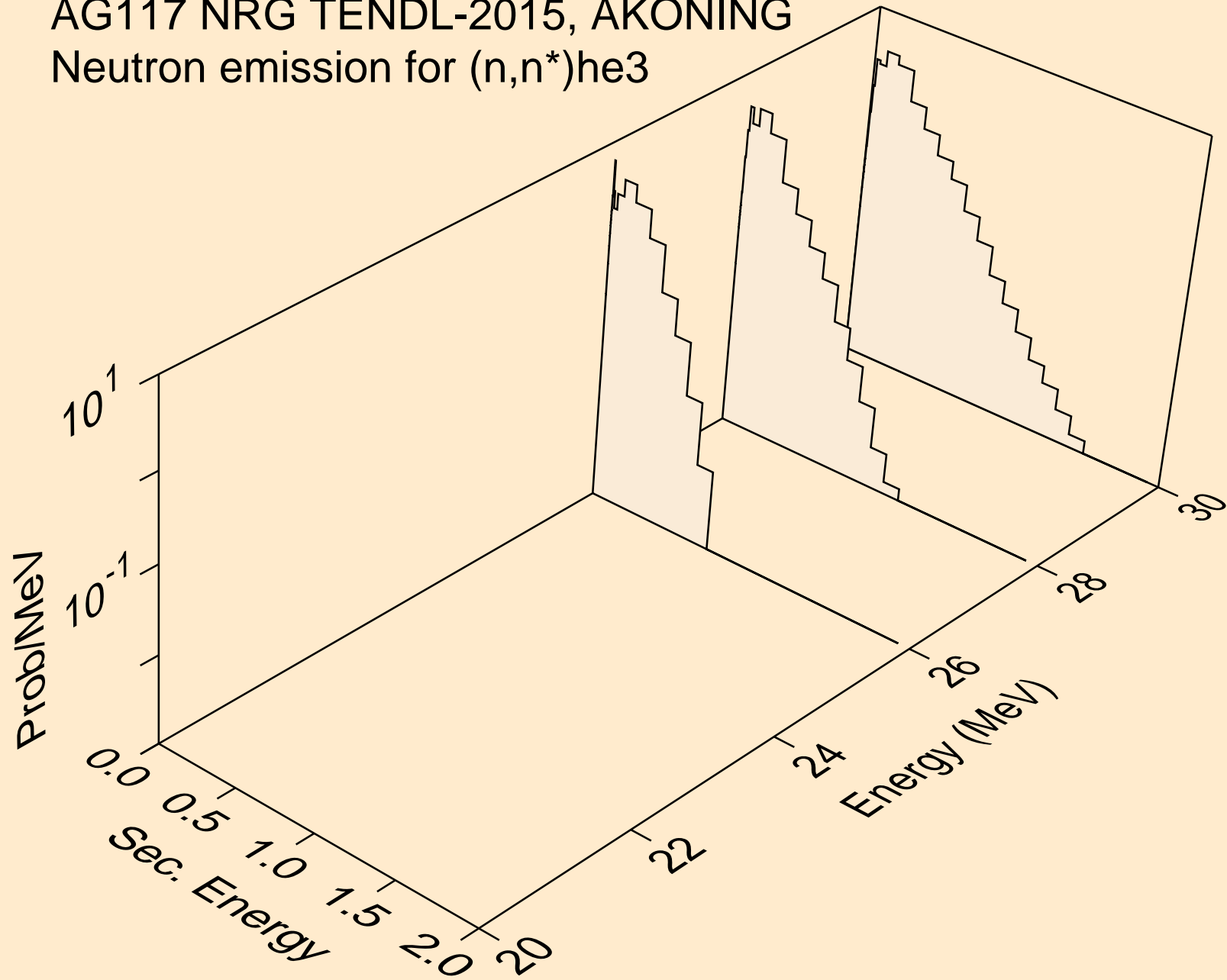Neutron emission for (n,n*)p

AG117 NRG TENDL-2015, AKONING
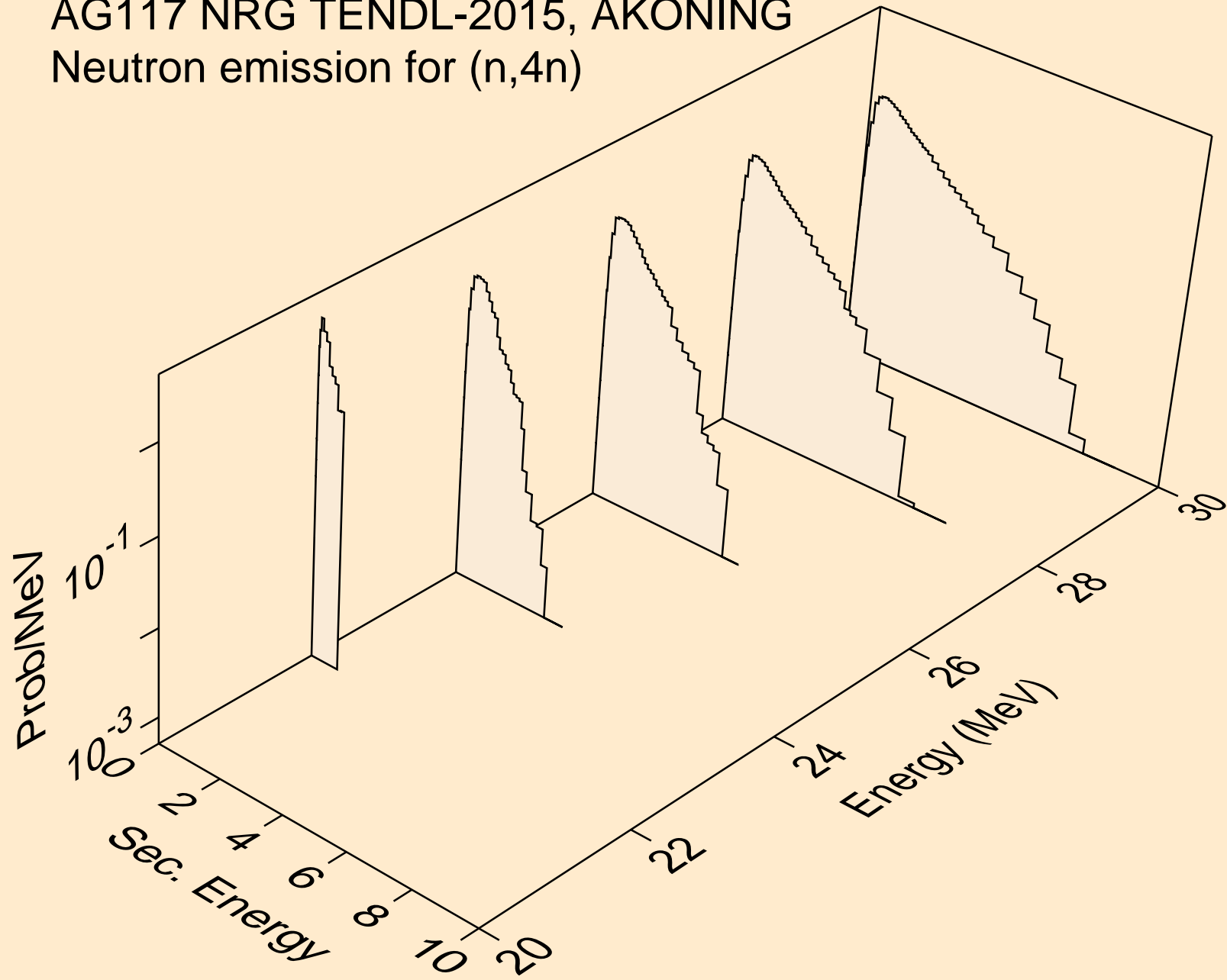Neutron emission for (n,n*)d

AG117 NRG TENDL-2015, AKONING
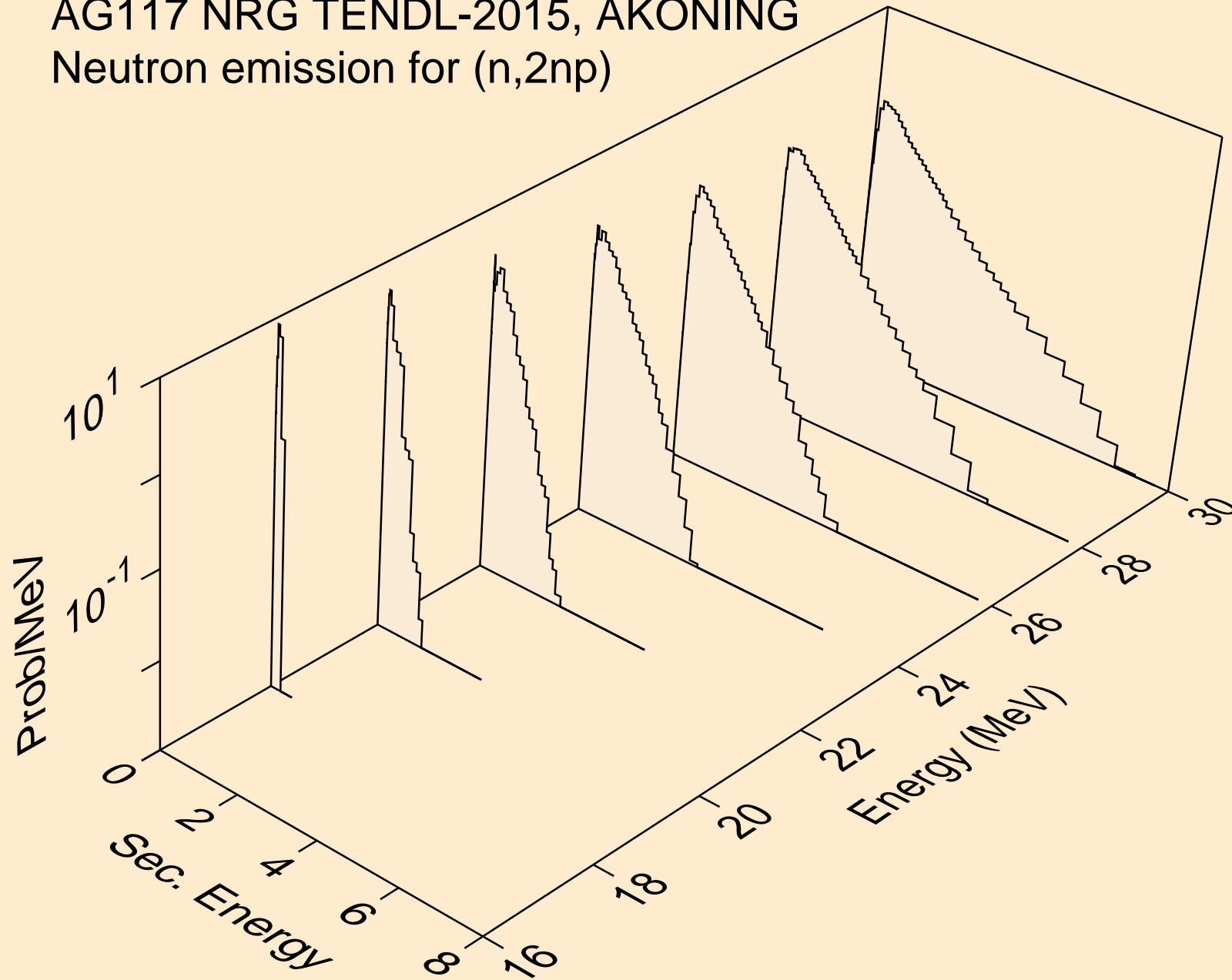Neutron emission for (n,n*)t

AG117 NRG TENDL-2015, AKONING
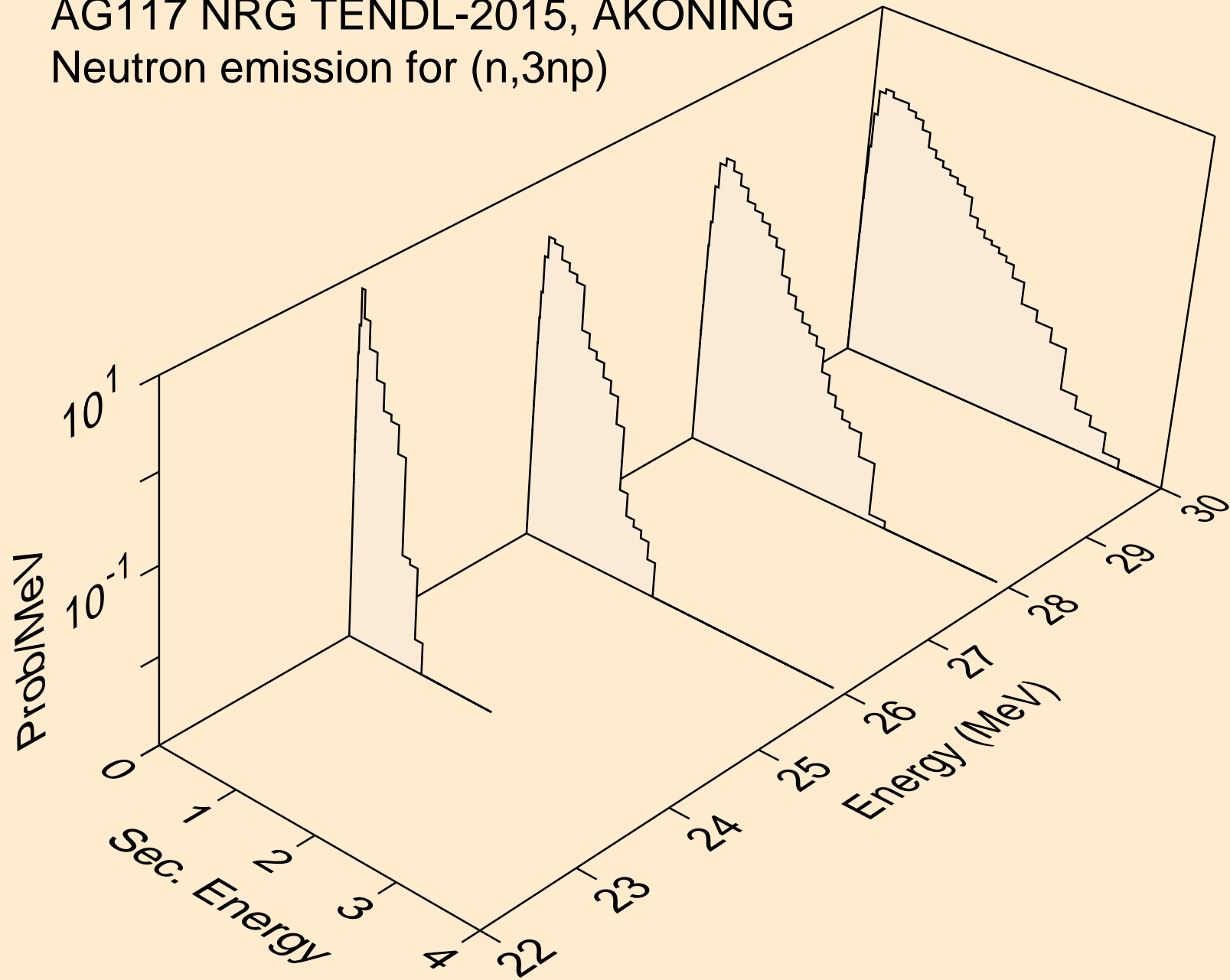Neutron emission for (n,n*)he3

AG117 NRG TENDL-2015, AKONING
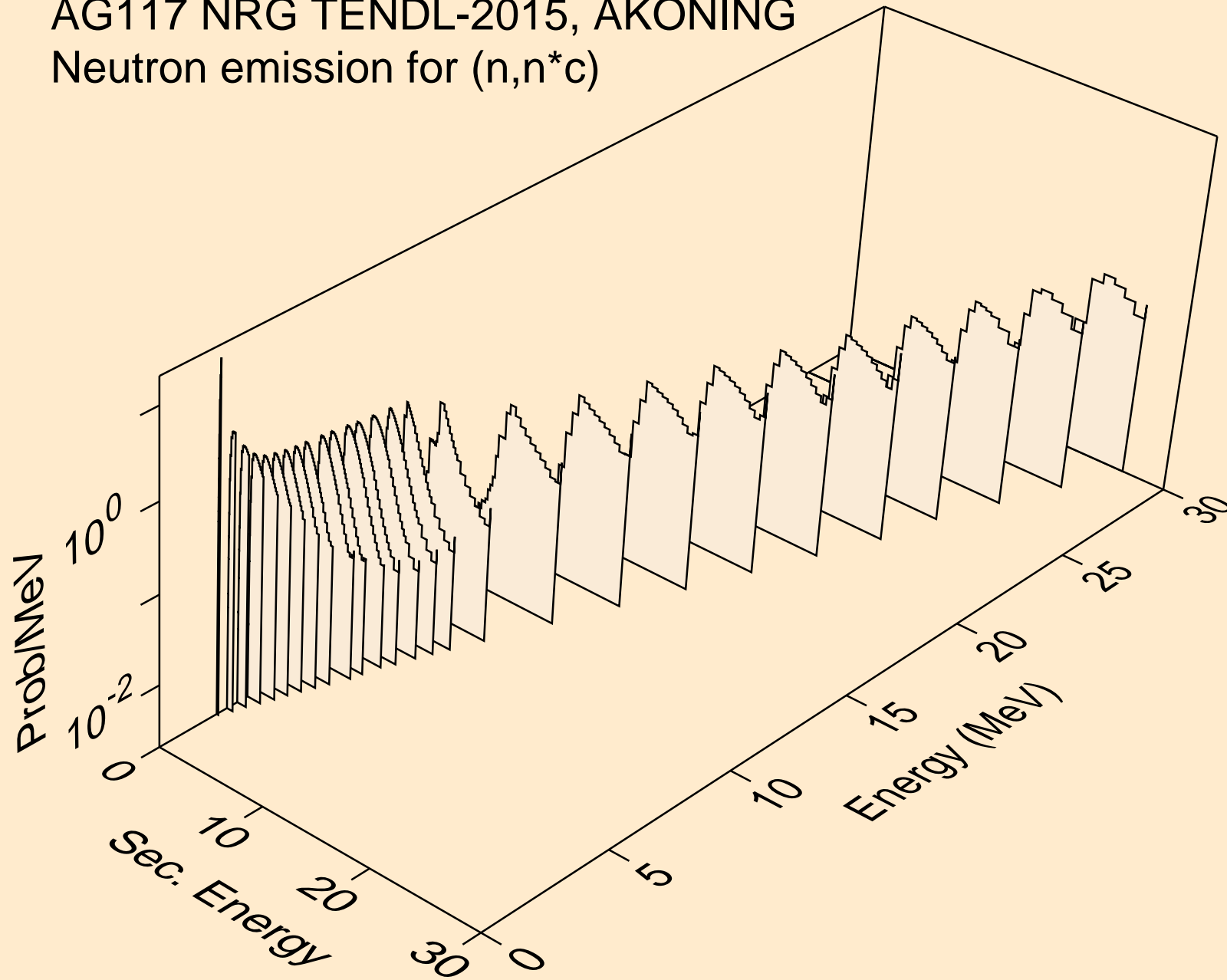Neutron emission for (n,4n)

AG117 NRG TENDL-2015, AKONING
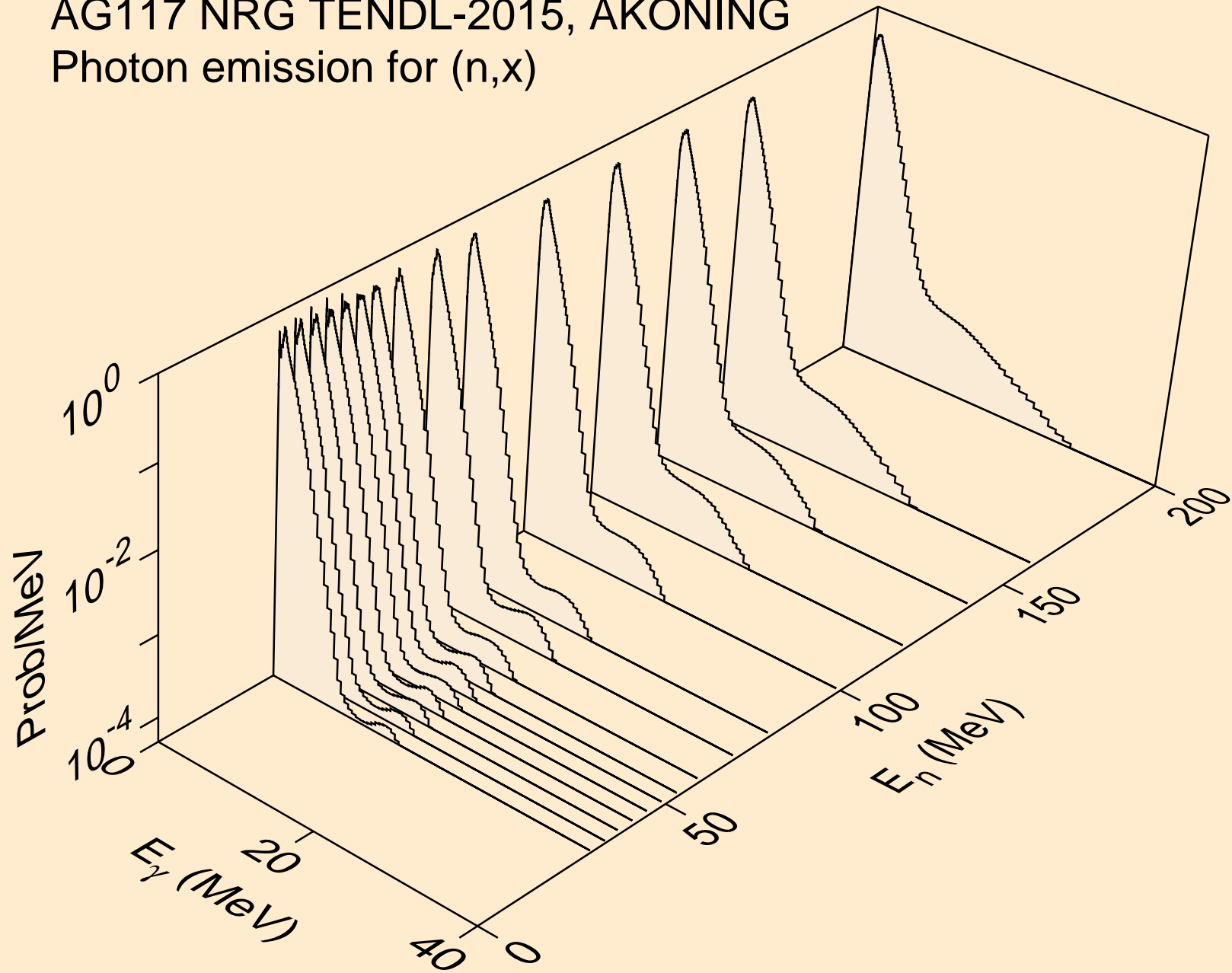Neutron emission for (n,2np)

AG117 NRG TENDL-2015, AKONING
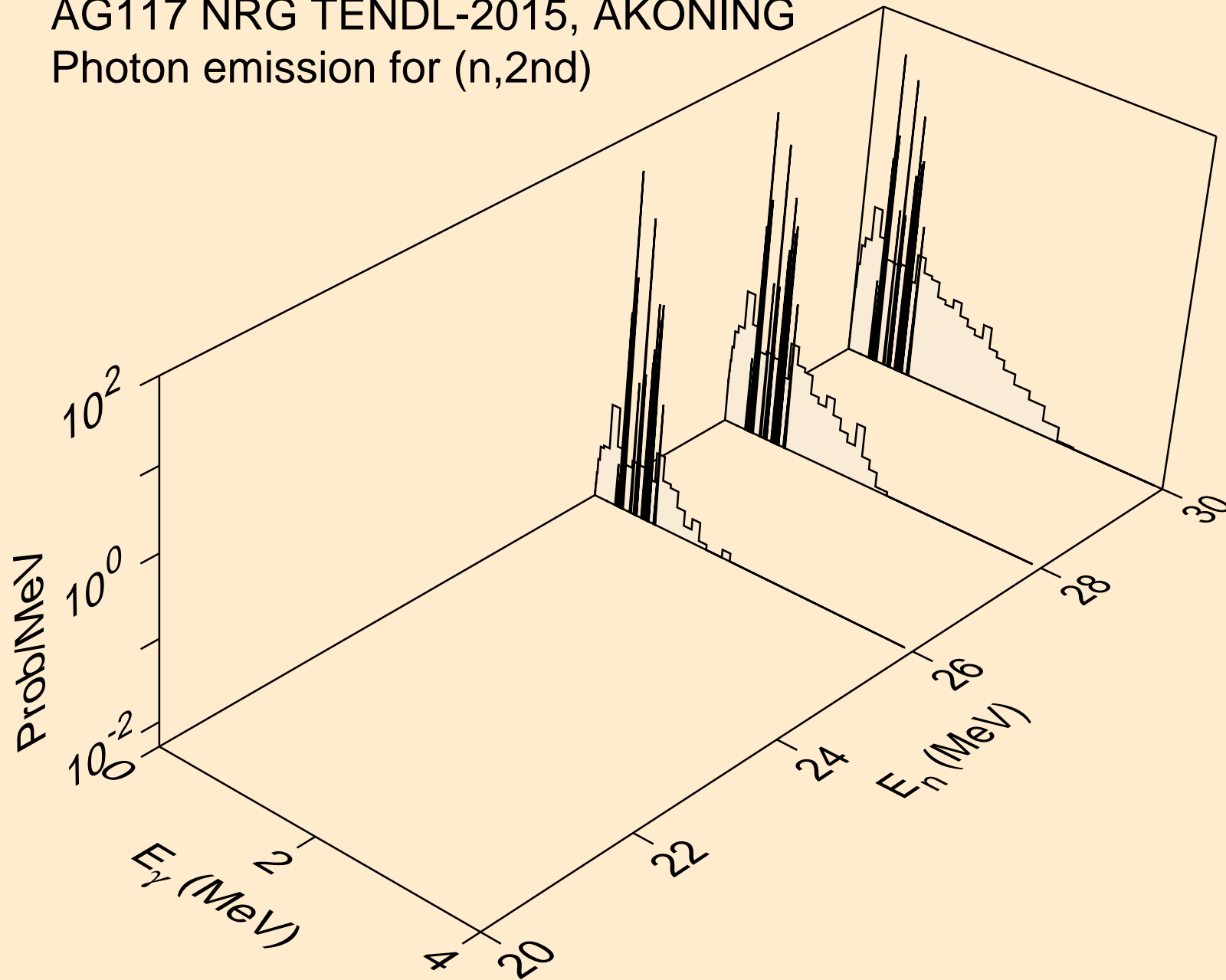Neutron emission for (n,3np)

AG117 NRG TENDL-2015, AKONING
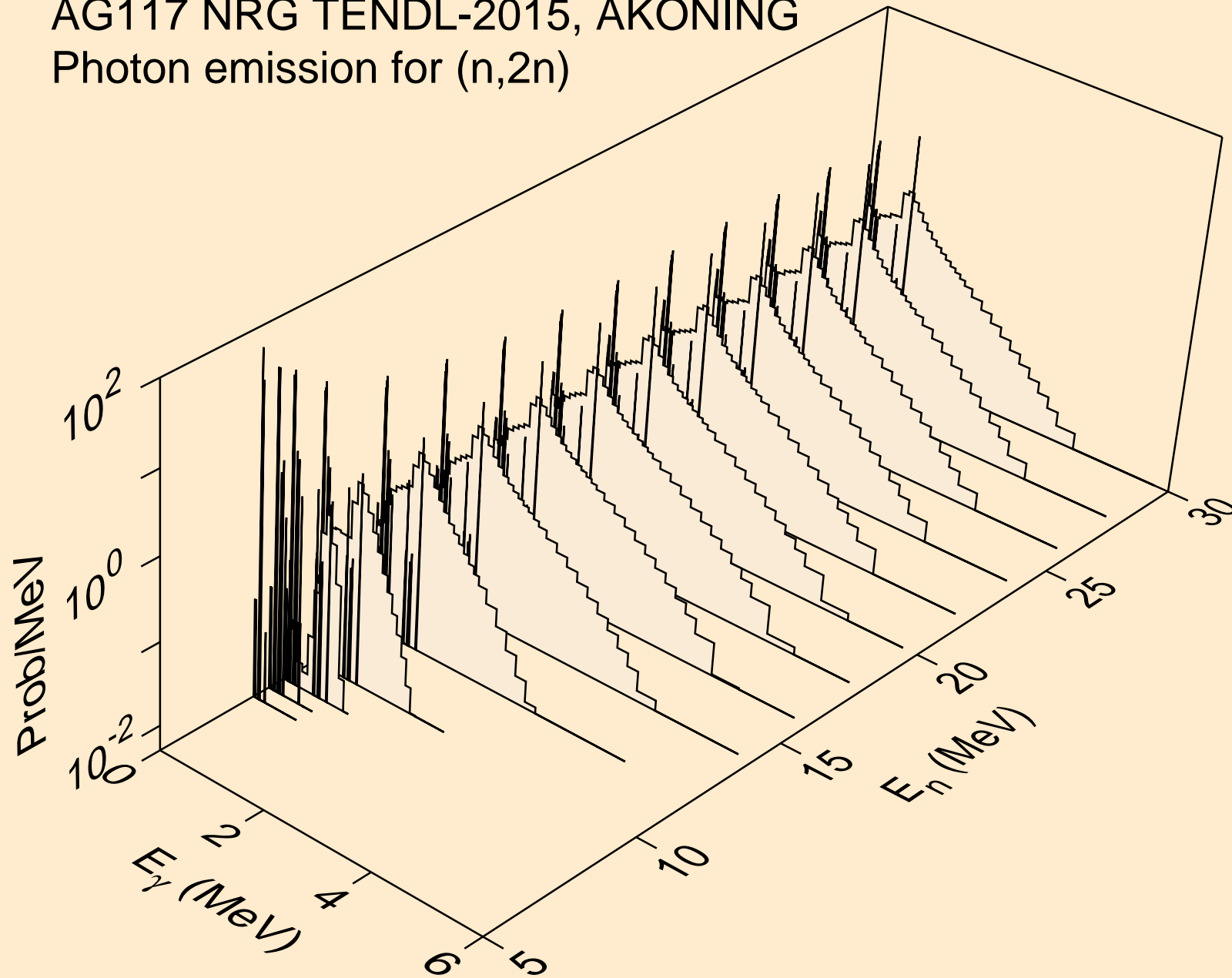Neutron emission for (n,n*c)

AG117 NRG TENDL-2015, AKONING
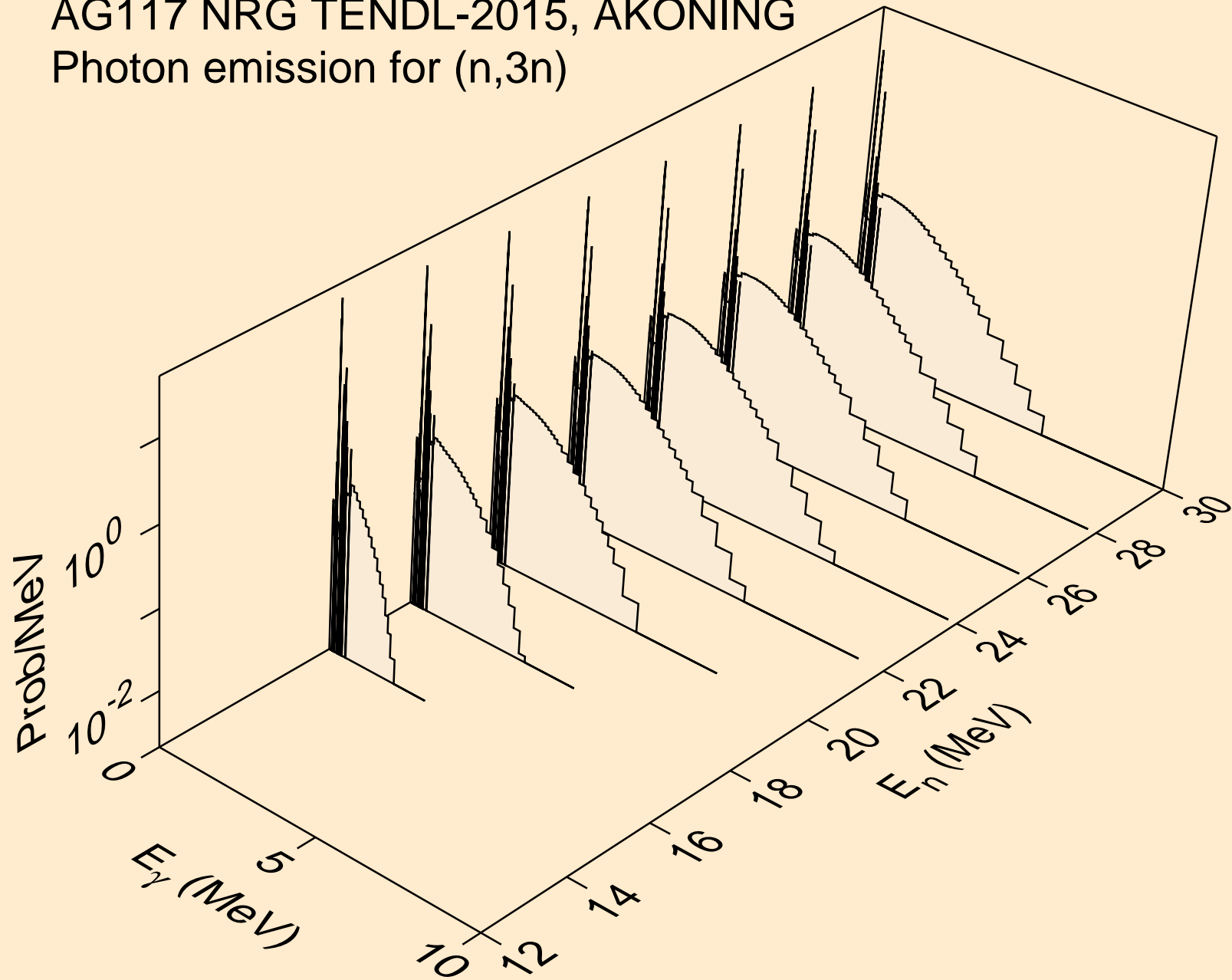Photon emission for (n,x)

AG117 NRG TENDL-2015, AKONING
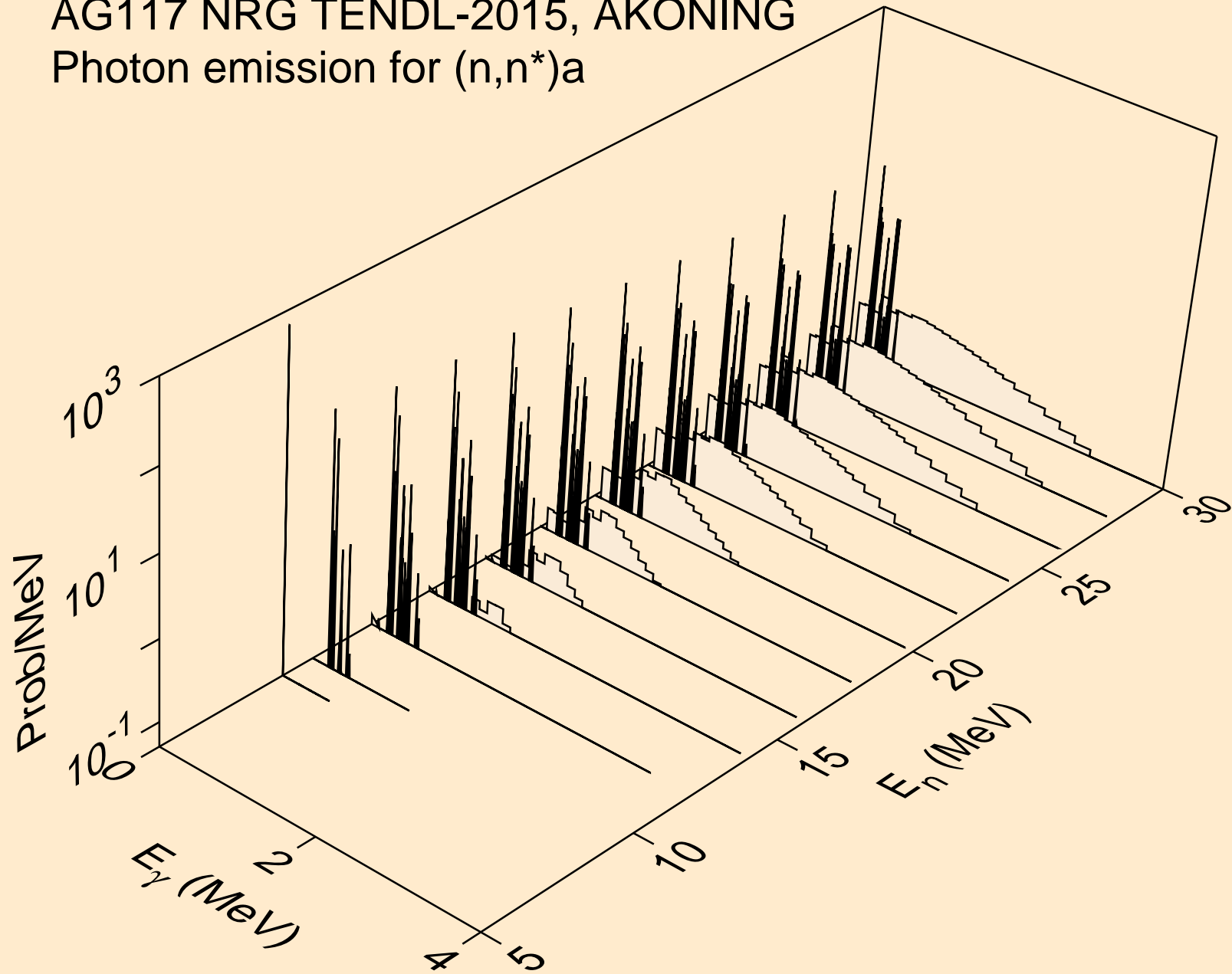Photon emission for (n,2nd)

AG117 NRG TENDL-2015, AKONING
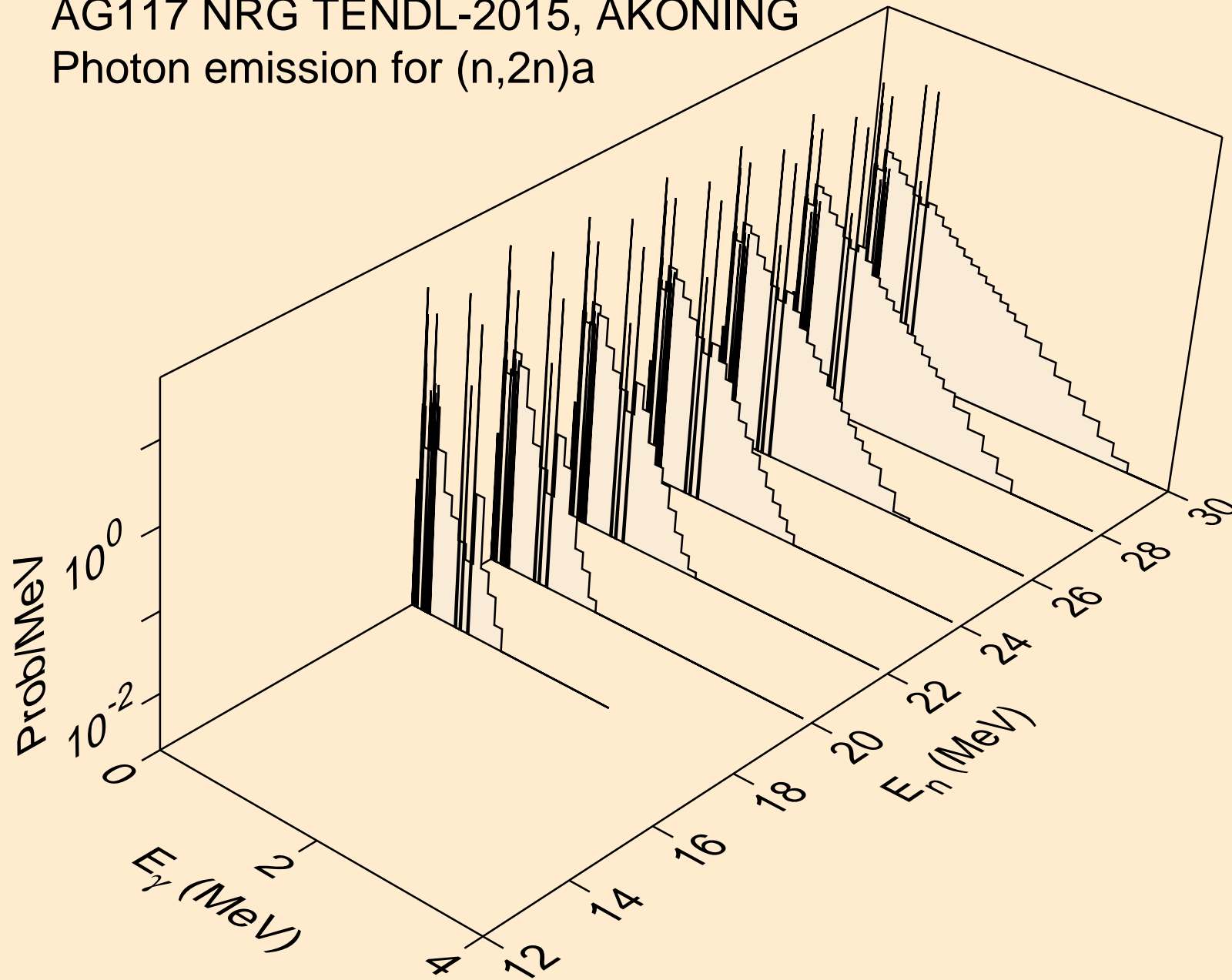Photon emission for (n,2n)

AG117 NRG TENDL-2015, AKONING
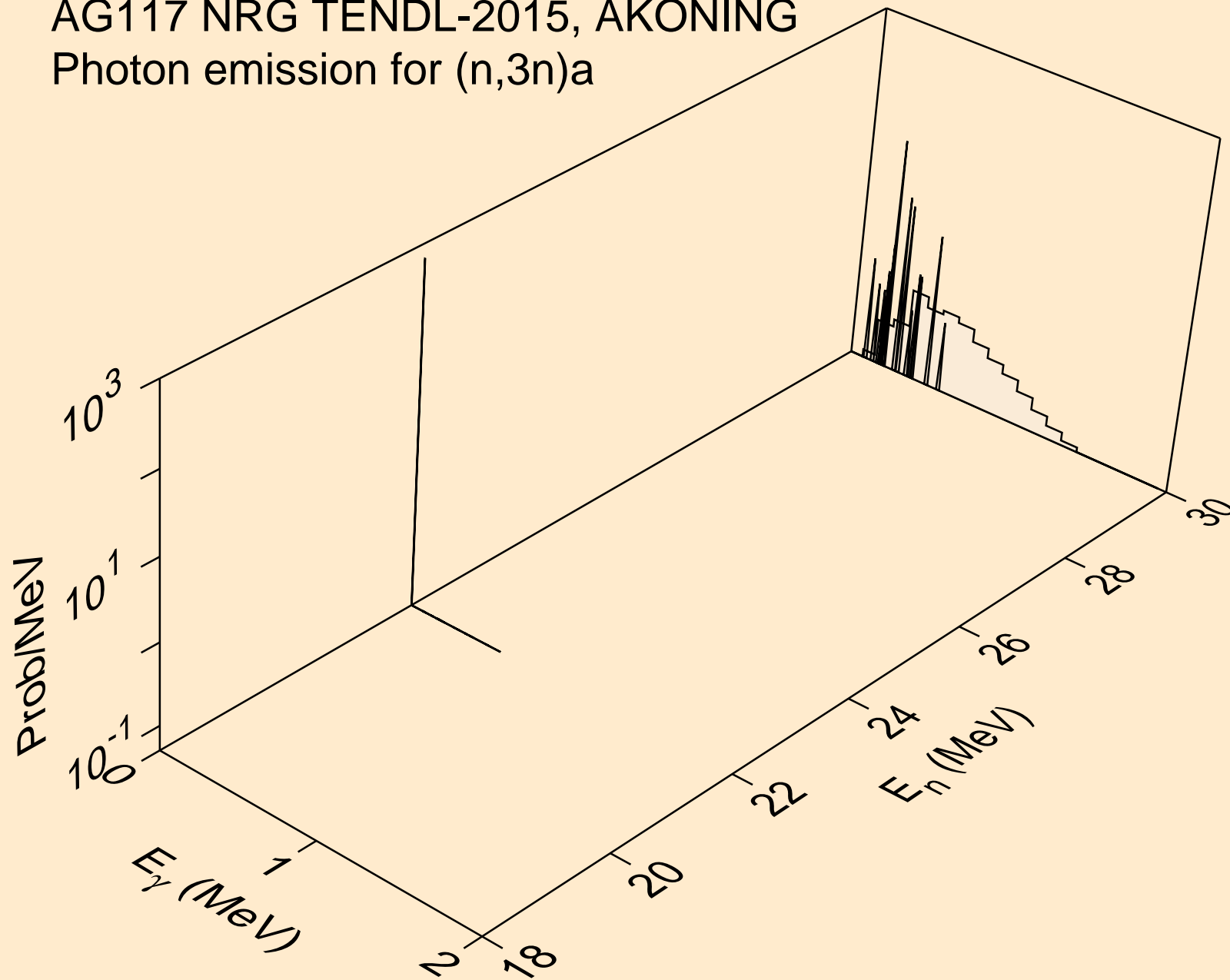Photon emission for (n,3n)

AG117 NRG TENDL-2015, AKONING
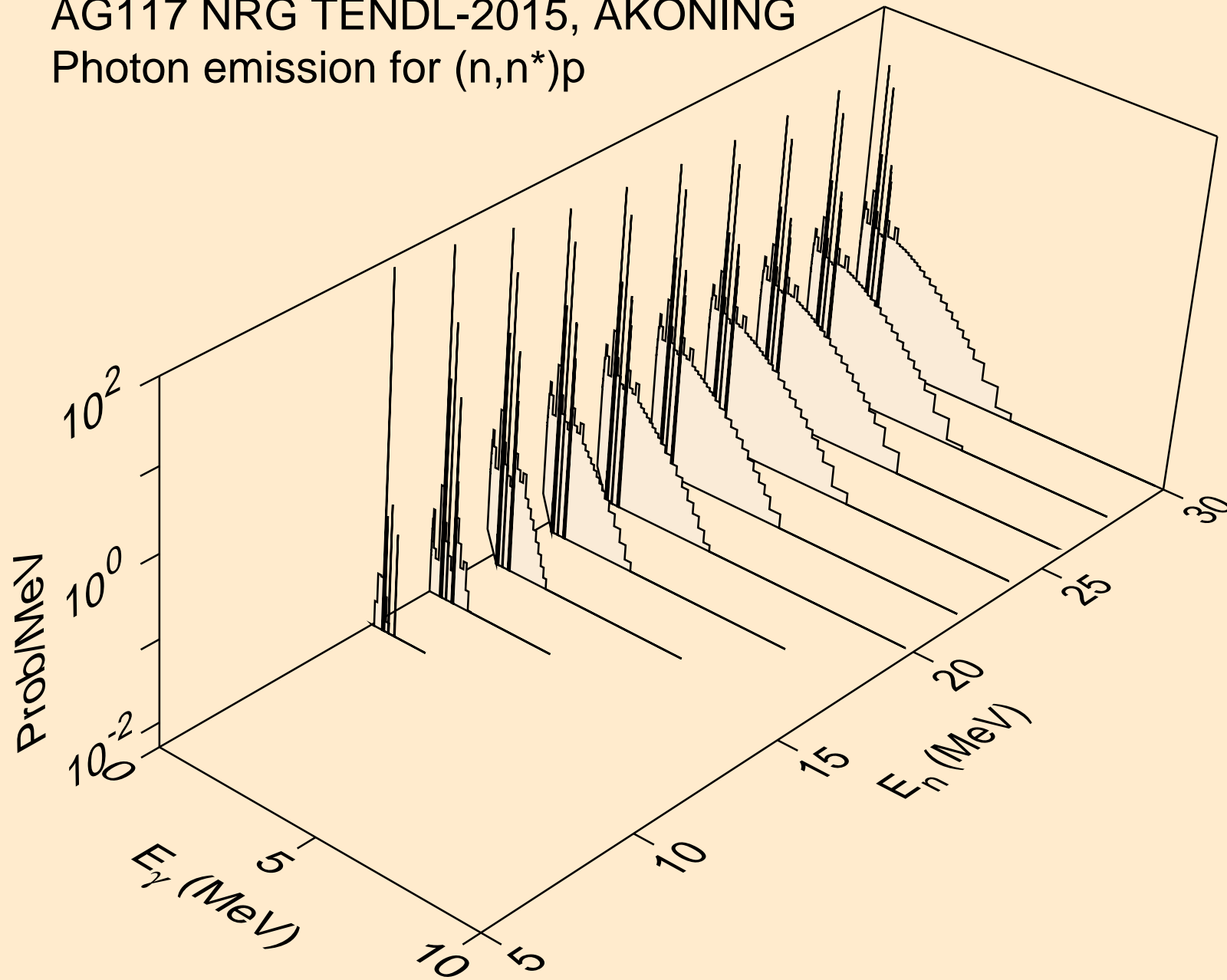Photon emission for (n,n*)a

AG117 NRG TENDL-2015, AKONING
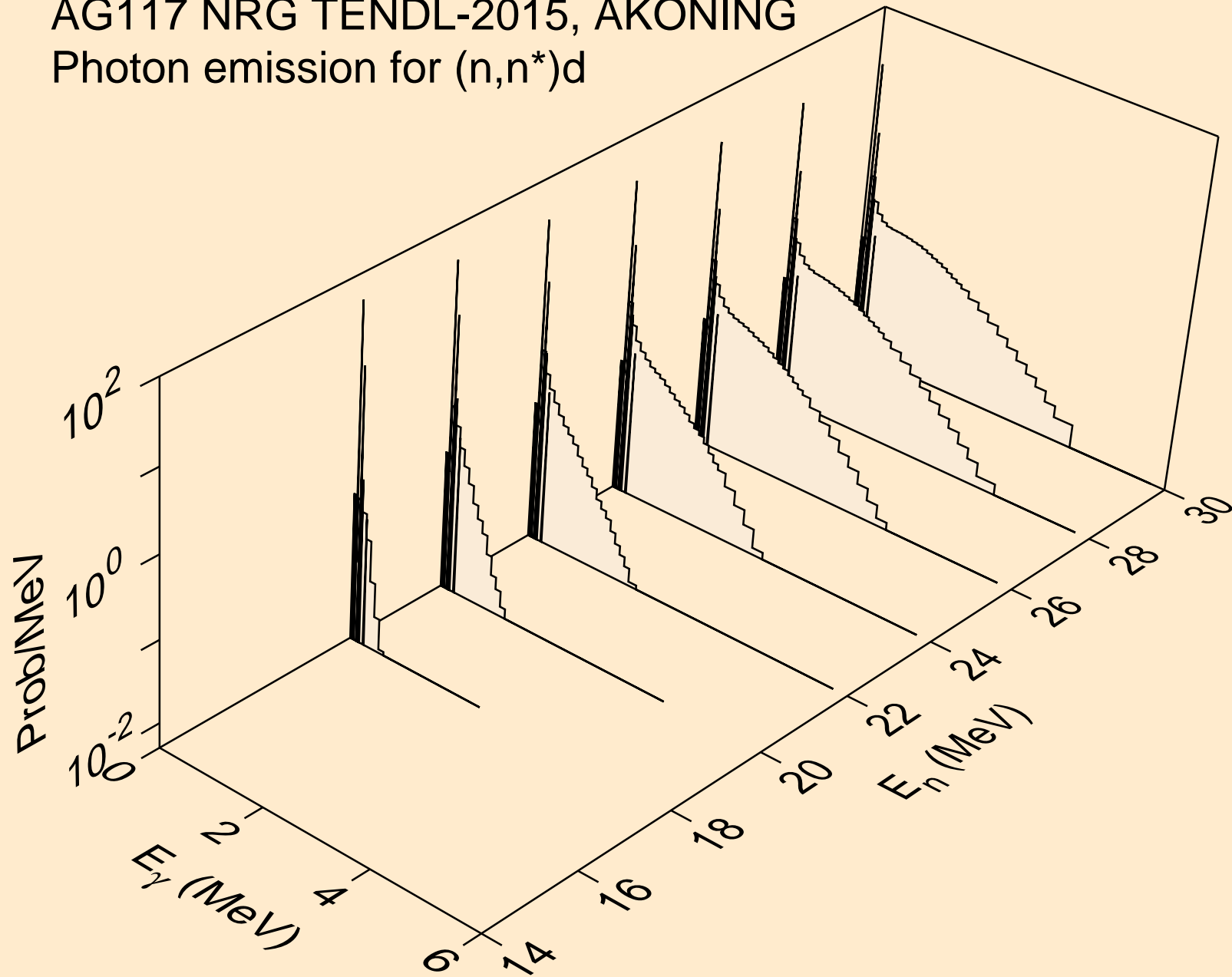Photon emission for (n,2n)a

AG117 NRG TENDL-2015, AKONING
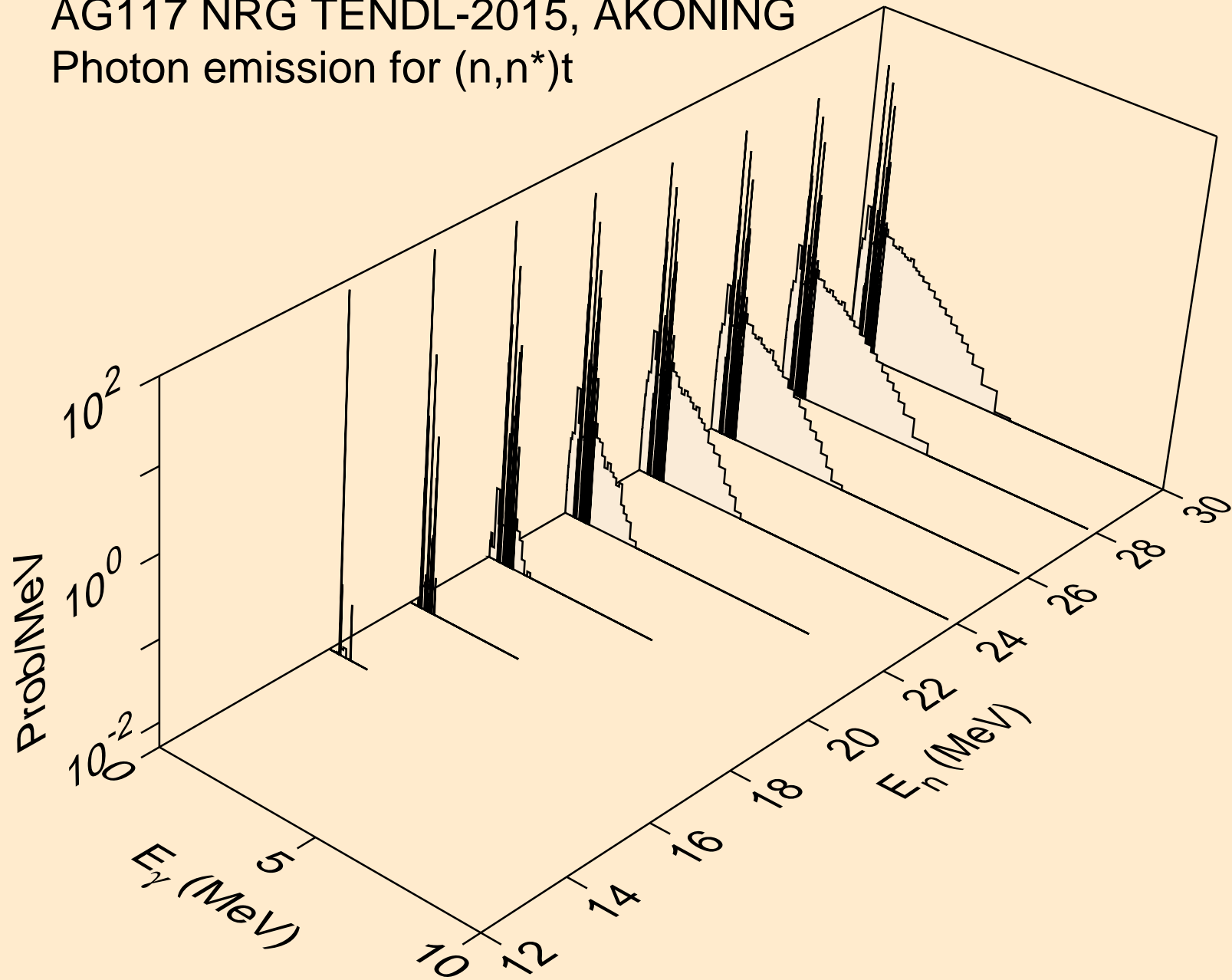Photon emission for (n,3n)a

AG117 NRG TENDL-2015, AKONING
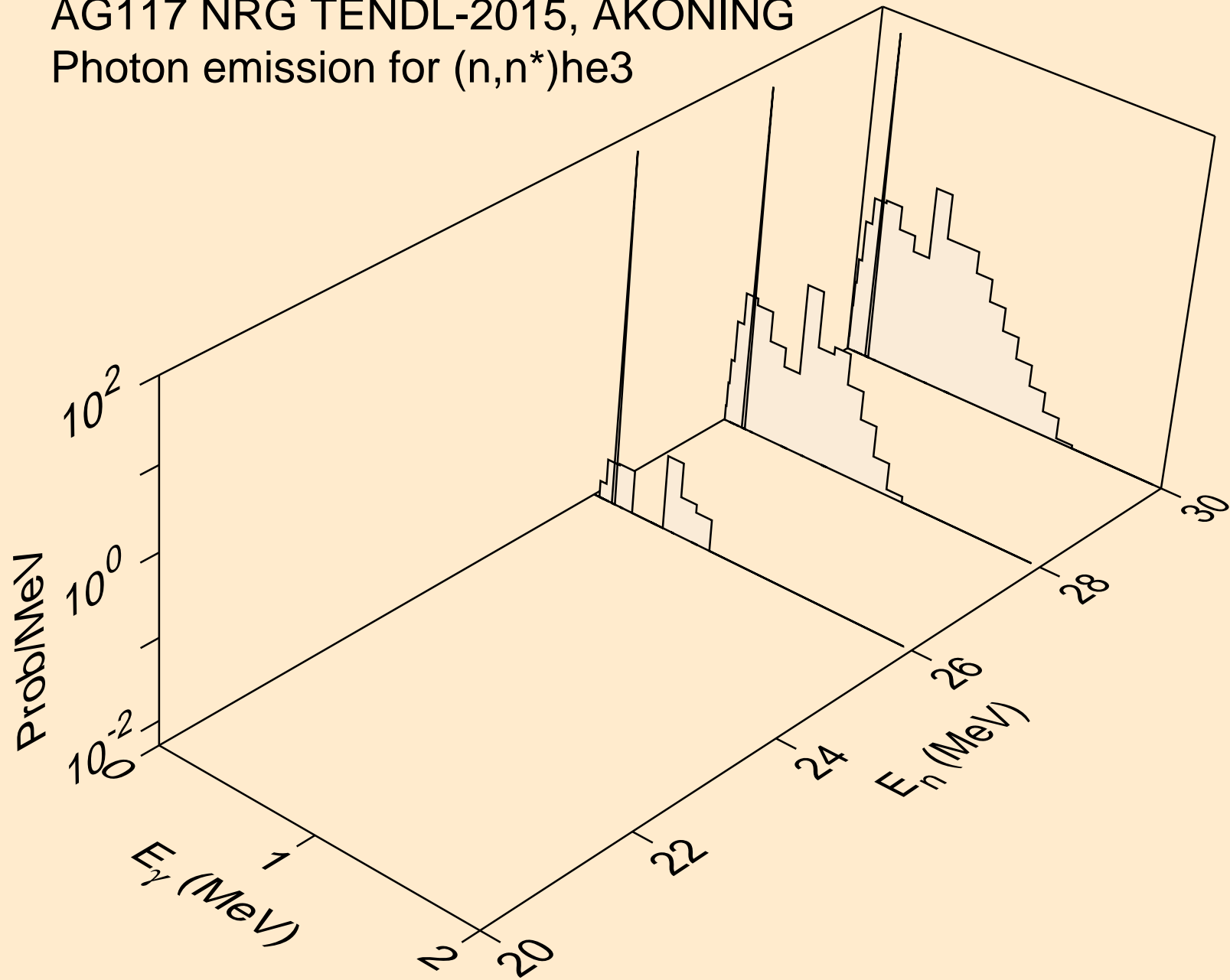Photon emission for (n,n*)p

AG117 NRG TENDL-2015, AKONING
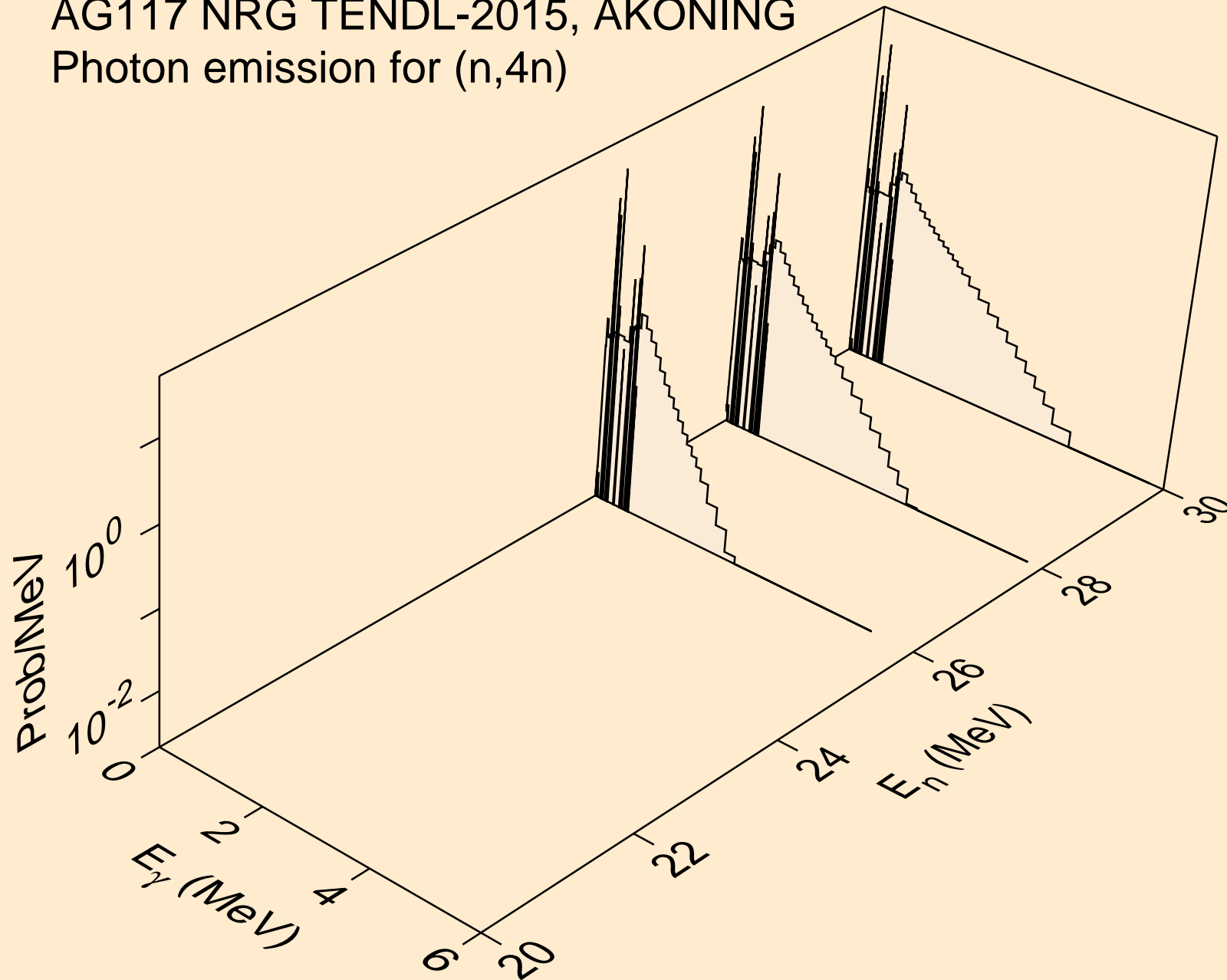Photon emission for (n,n*)d

AG117 NRG TENDL-2015, AKONING
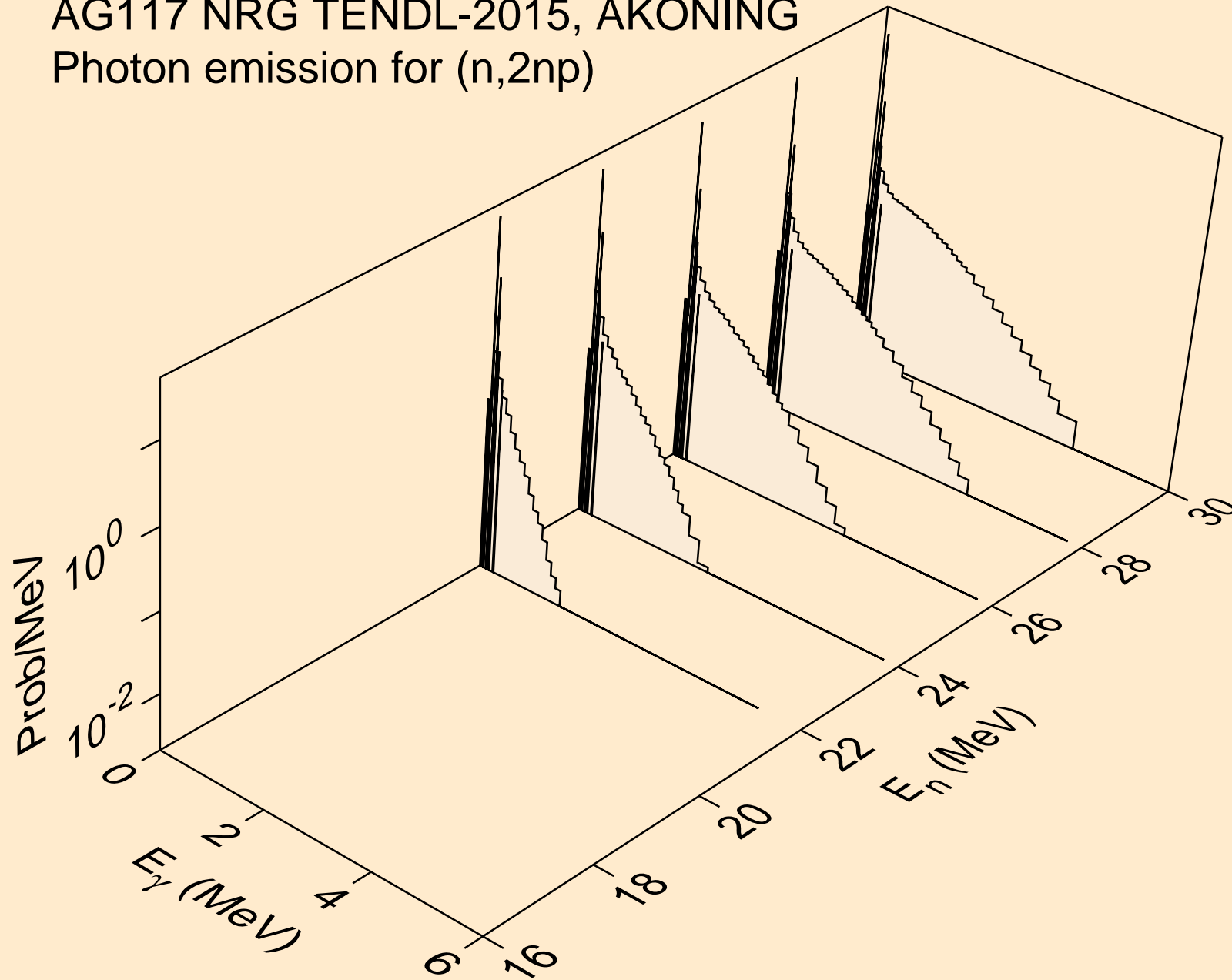Photon emission for (n,n*)t

AG117 NRG TENDL-2015, AKONING
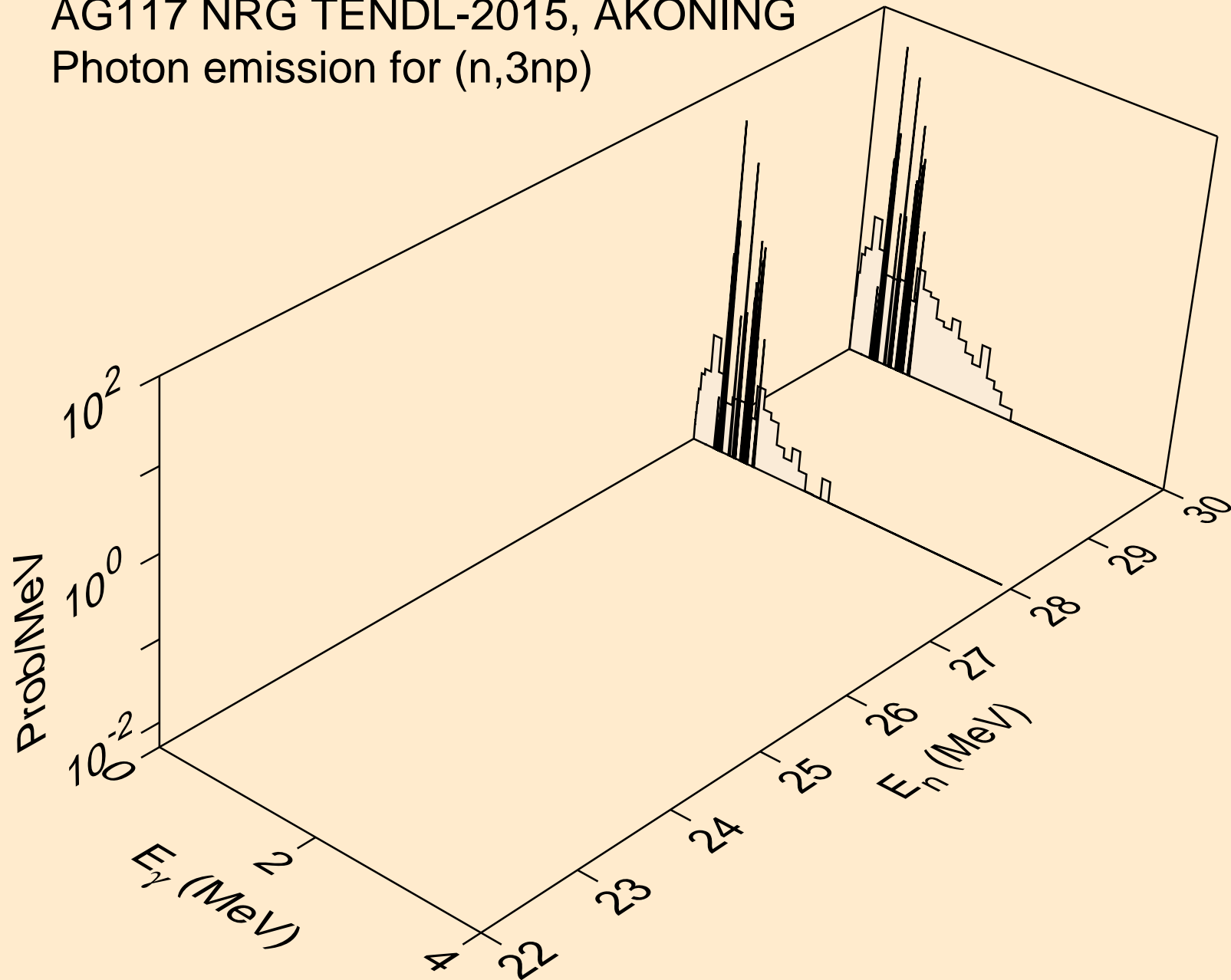Photon emission for (n,n*)he3

AG117 NRG TENDL-2015, AKONING
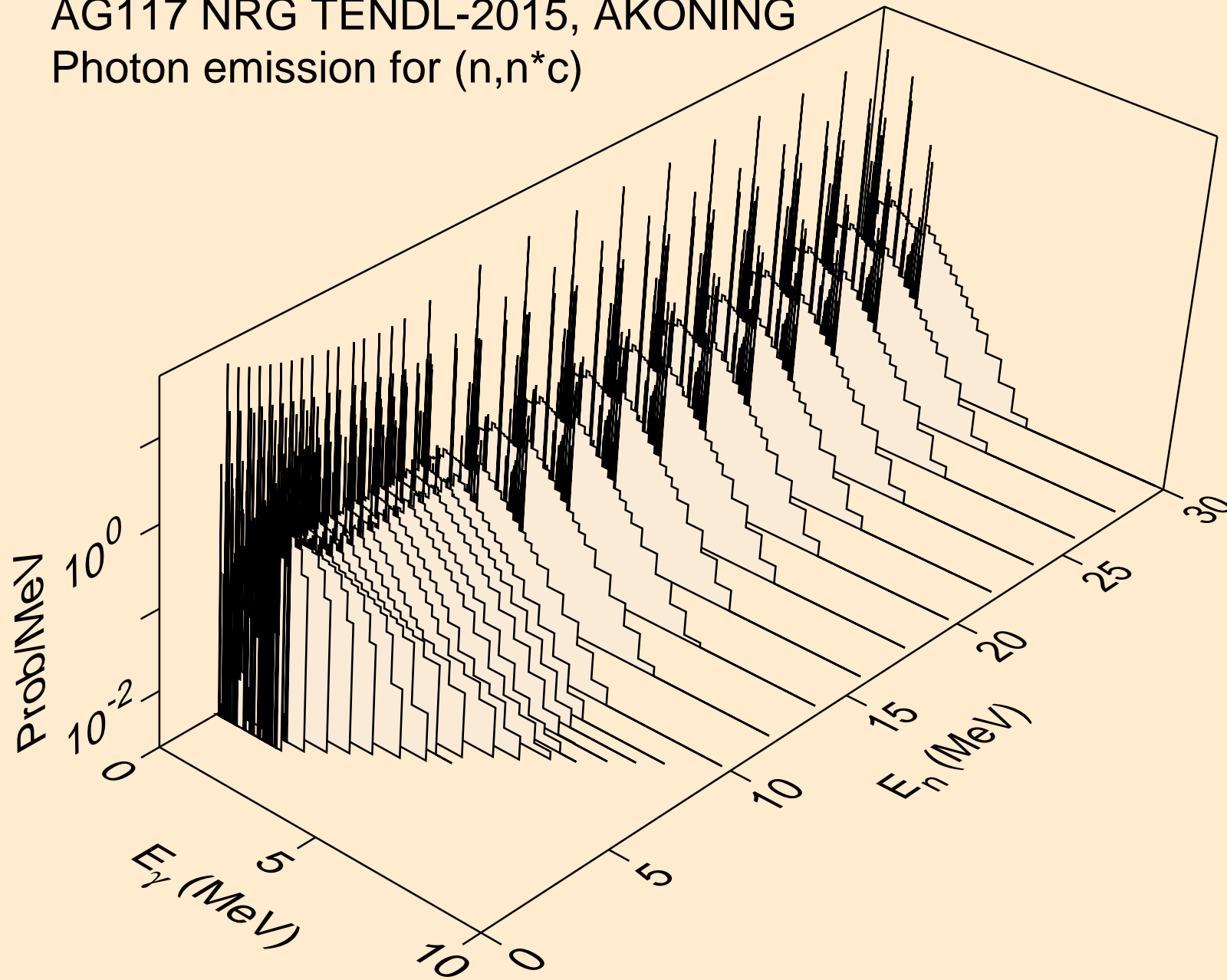Photon emission for (n,4n)

AG117 NRG TENDL-2015, AKONING
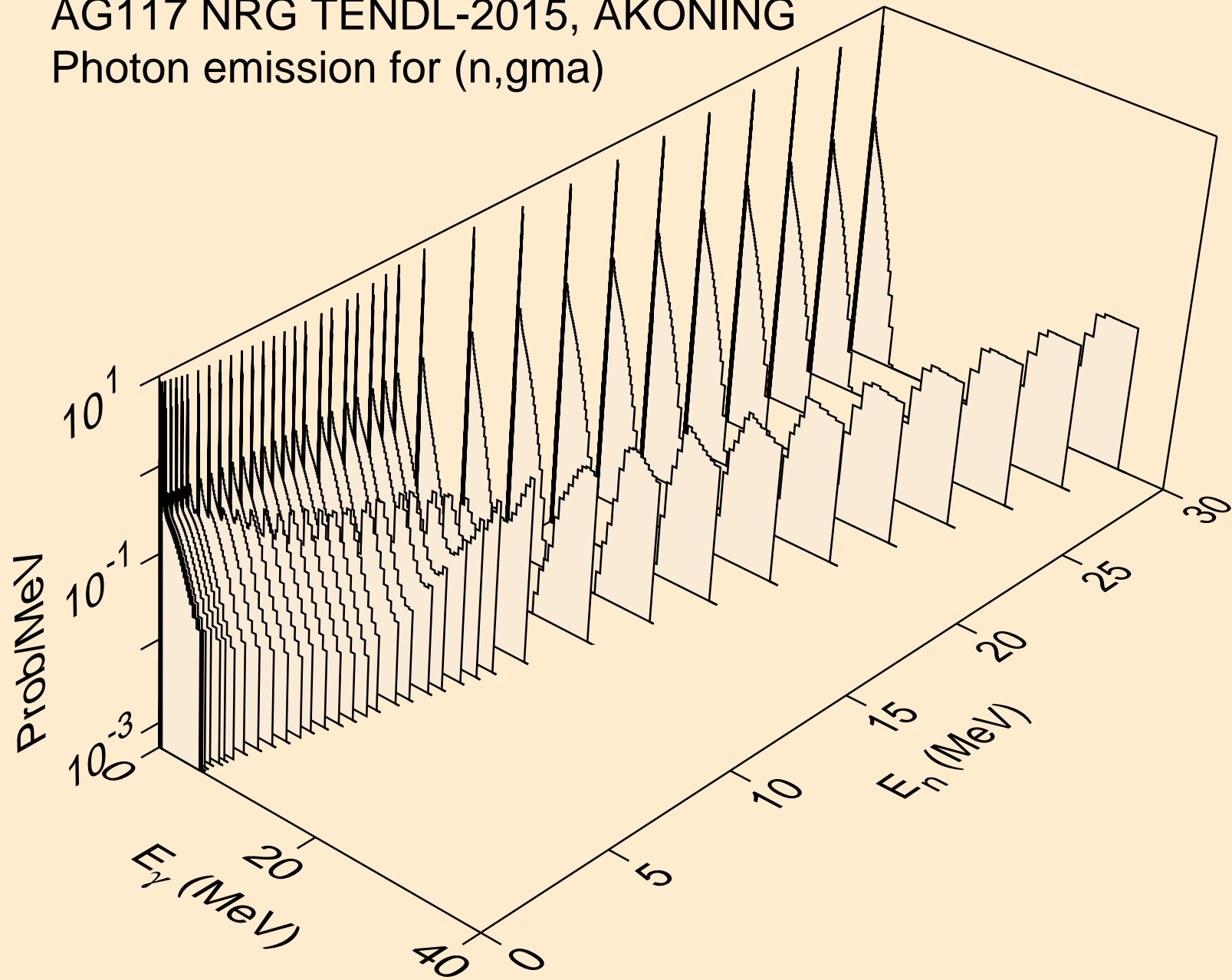Photon emission for (n,2np)

AG117 NRG TENDL-2015, AKONING
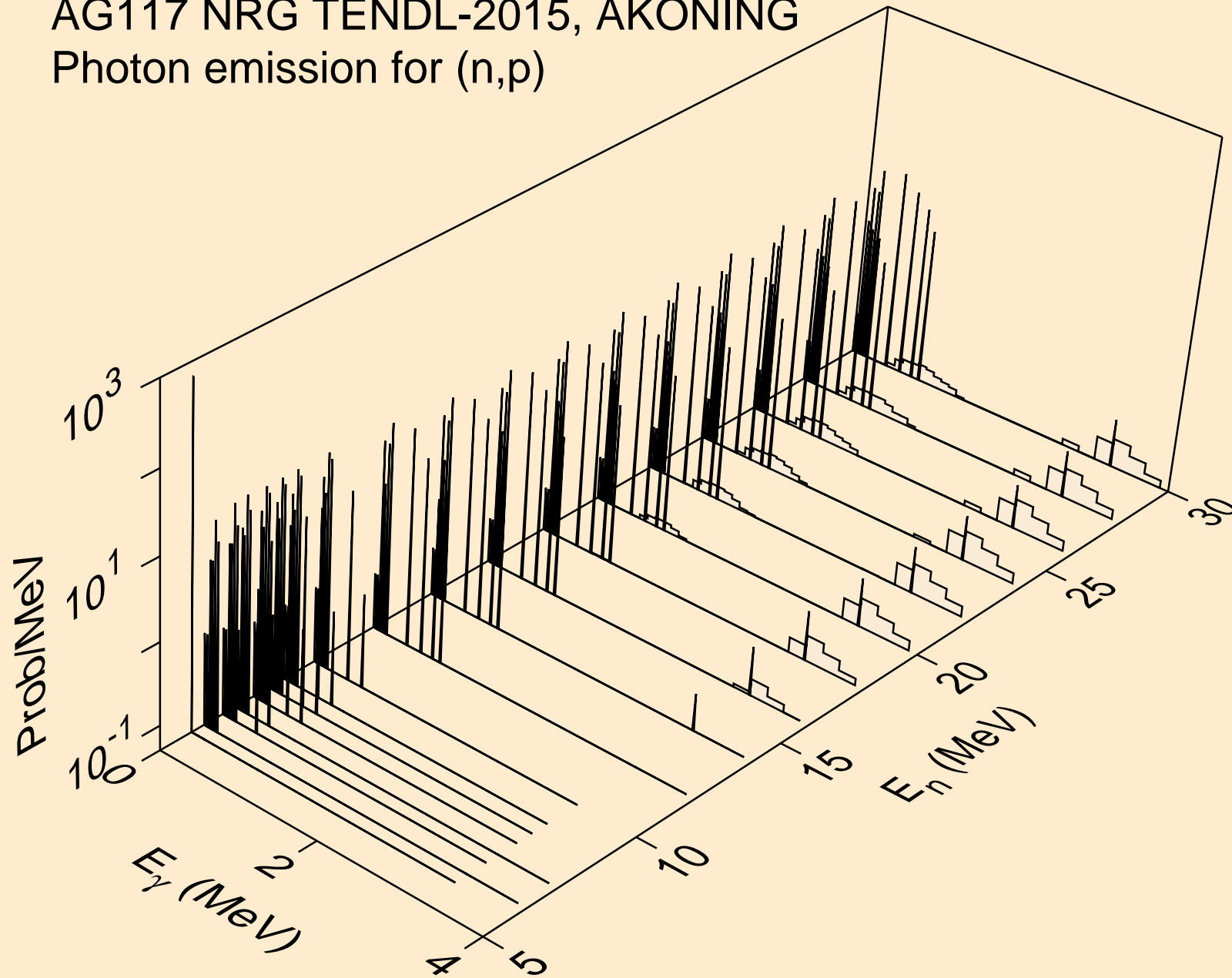Photon emission for (n,3np)

AG117 NRG TENDL-2015, AKONING
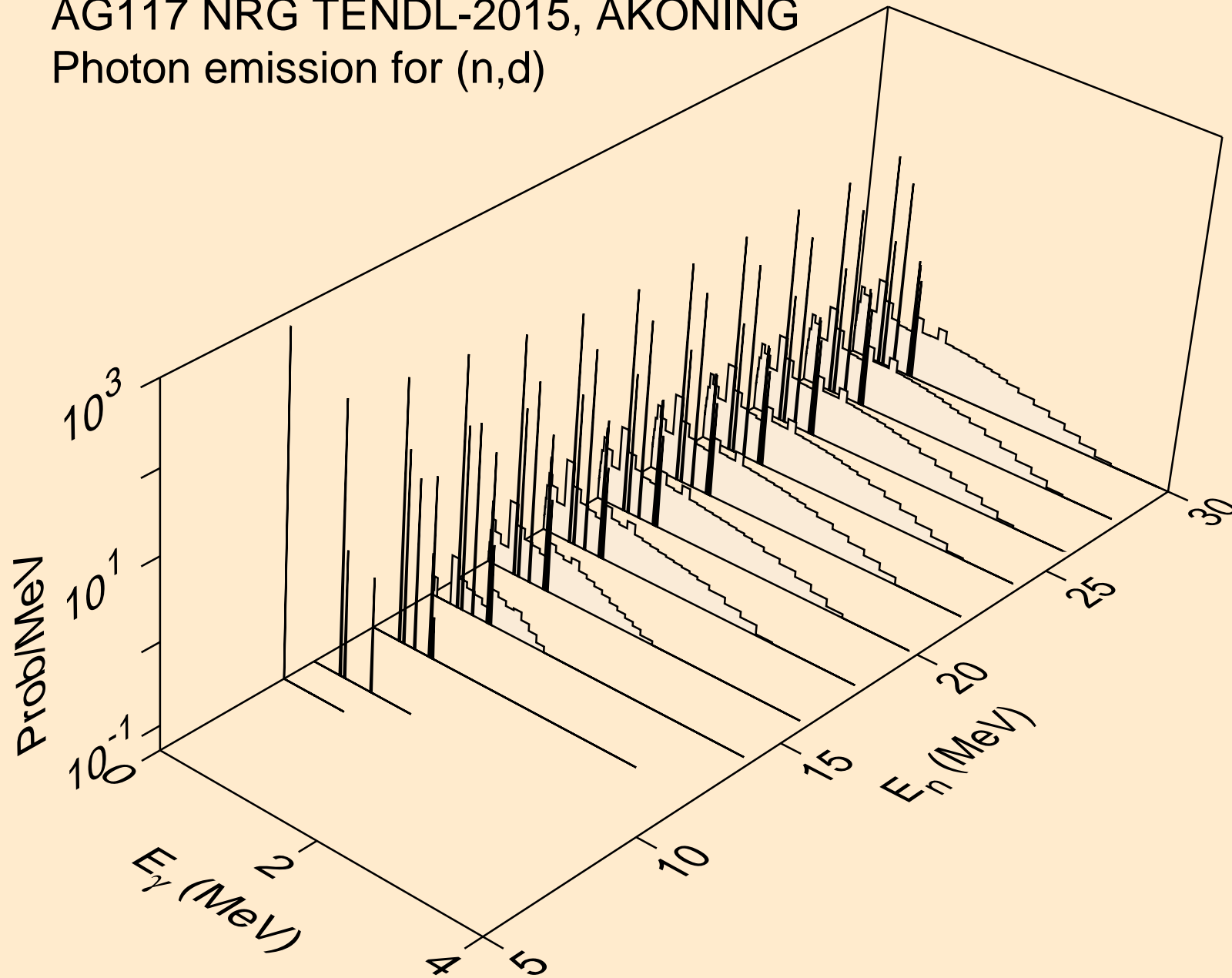Photon emission for (n,n*c)

AG117 NRG TENDL-2015, AKONING
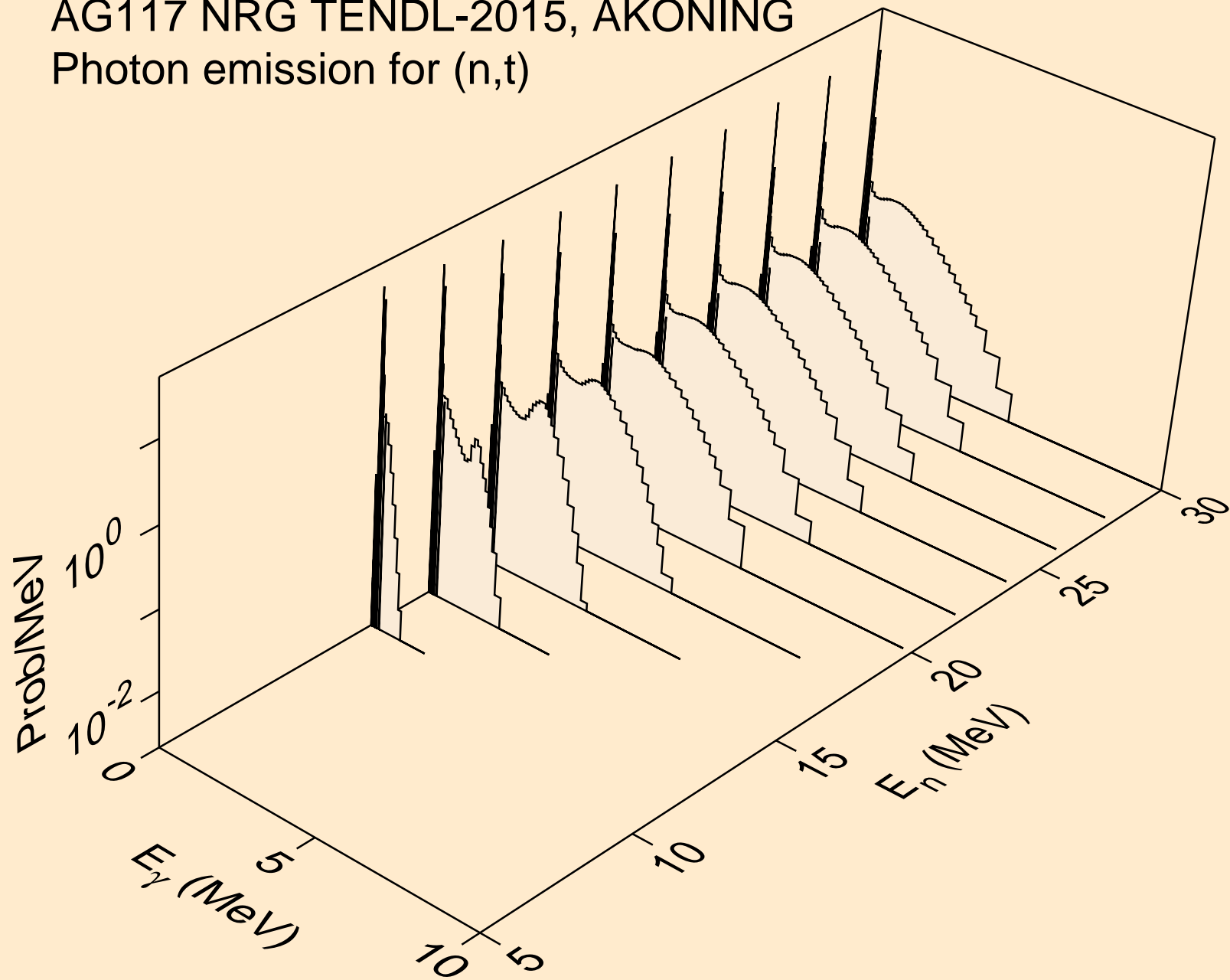Photon emission for (n,gma)

AG117 NRG TENDL-2015, AKONING
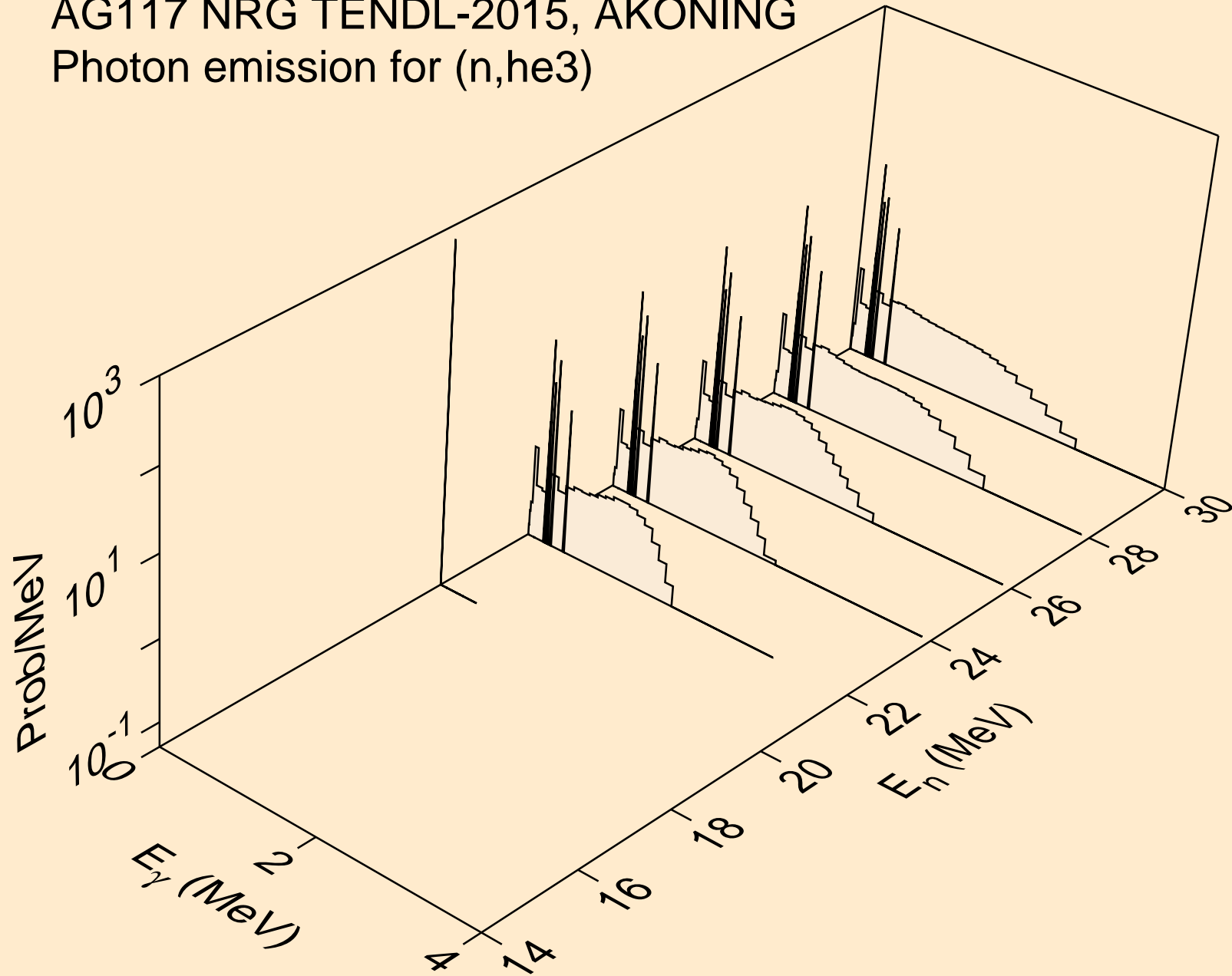Photon emission for (n,p)

AG117 NRG TENDL-2015, AKONING
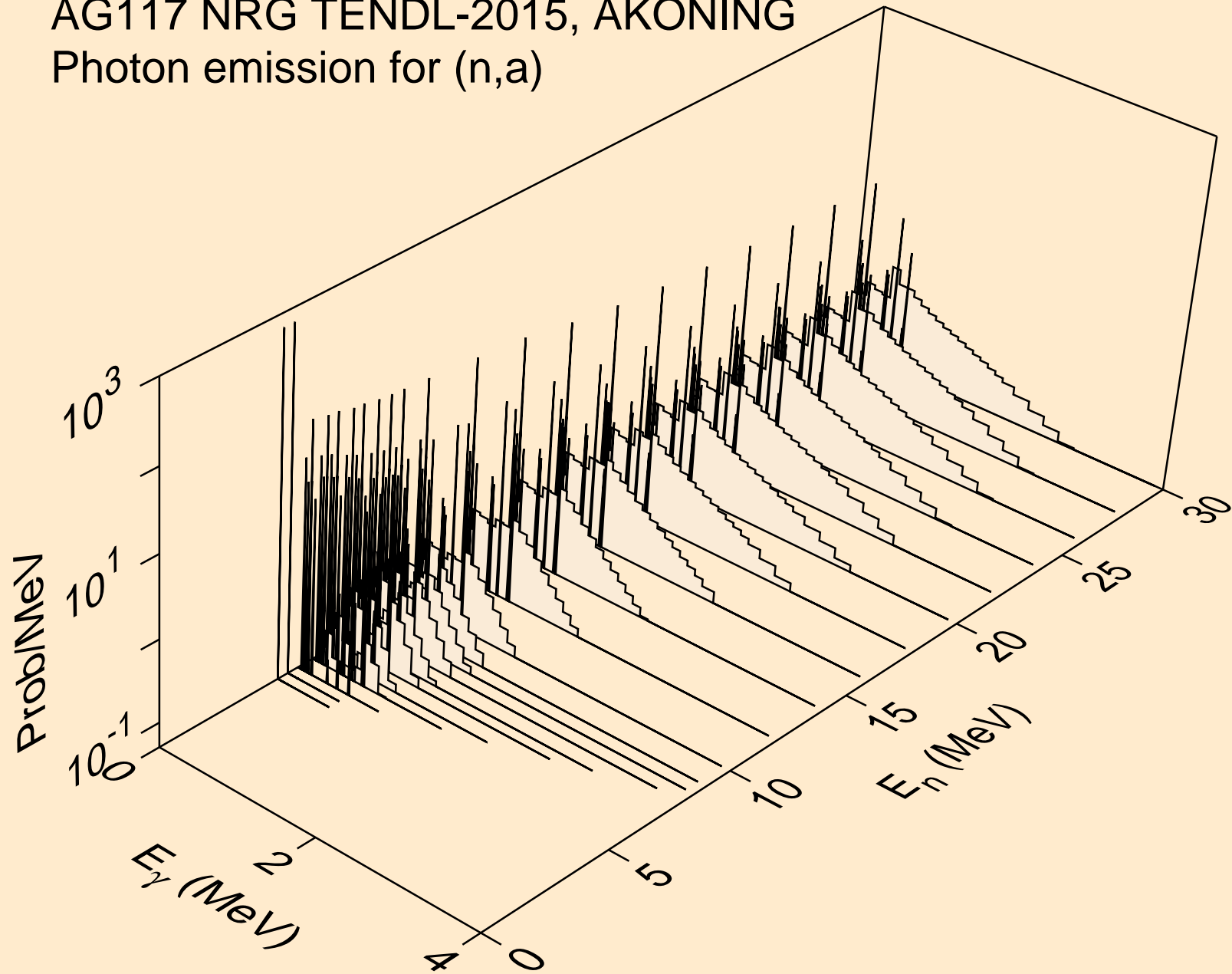Photon emission for (n,d)

AG117 NRG TENDL-2015, AKONING
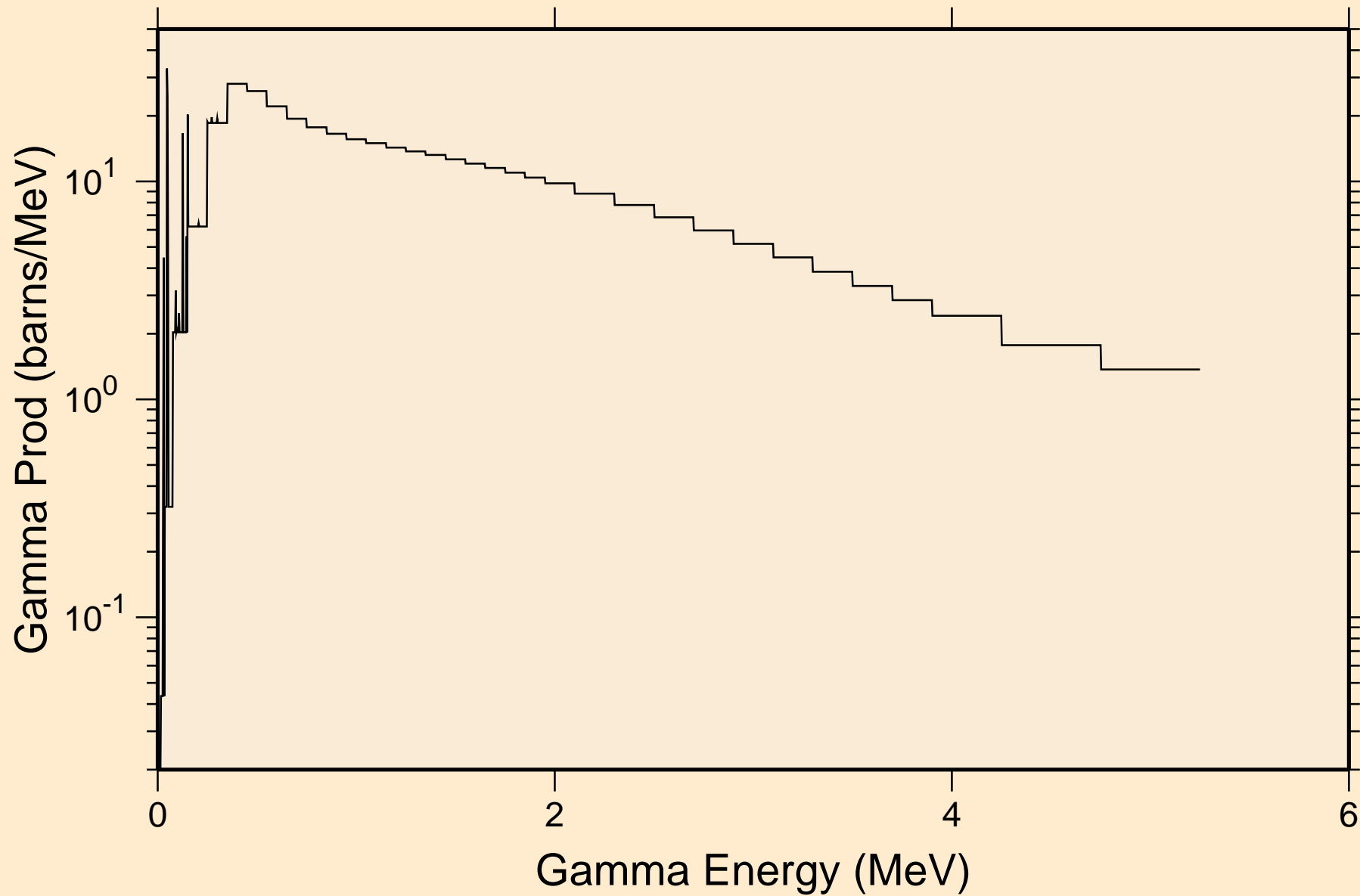Photon emission for (n,t)

AG117 NRG TENDL-2015, AKONING
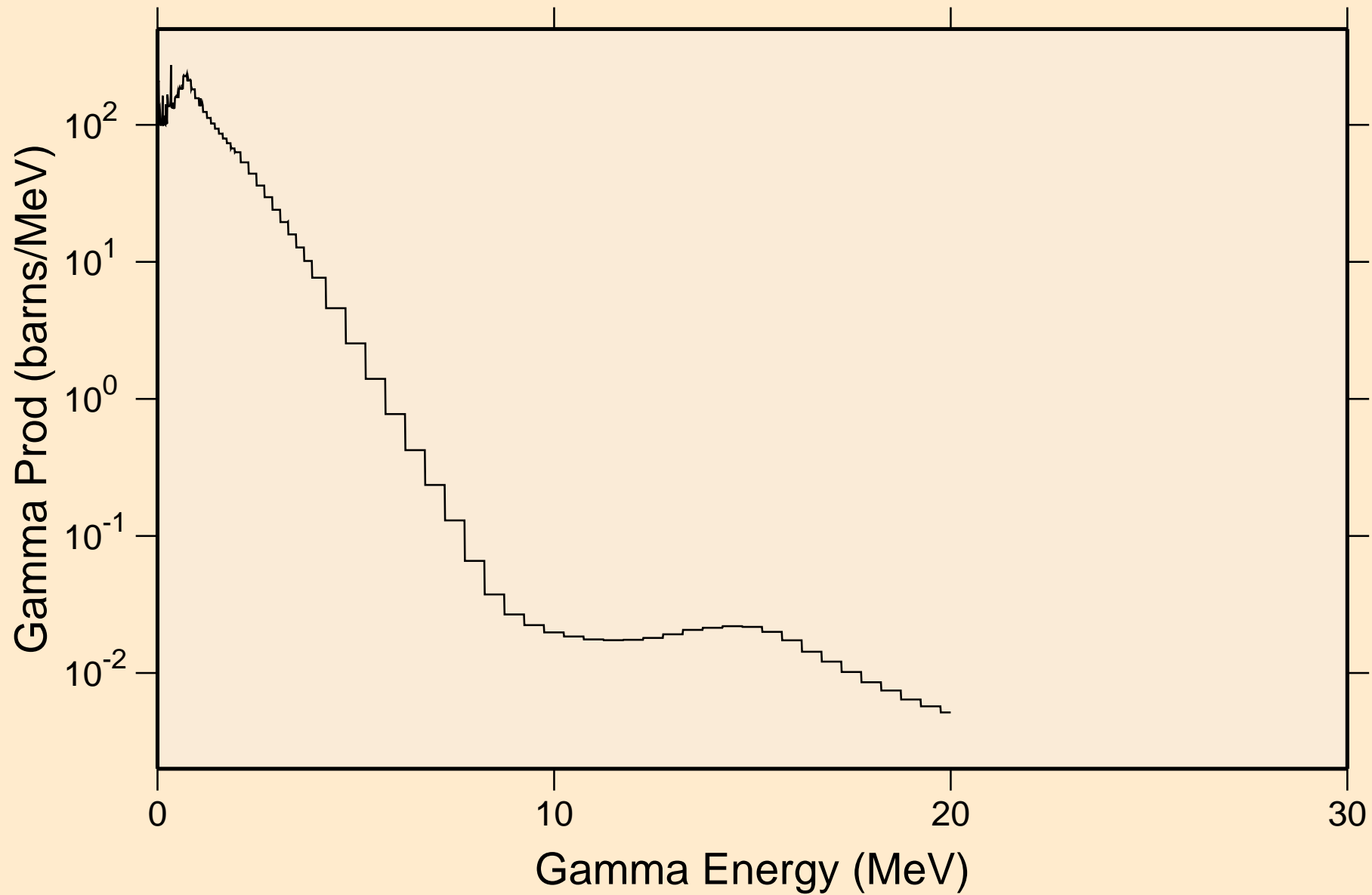Photon emission for (n,he3)

AG117 NRG TENDL-2015, AKONING
Photon emission for (n,a)

AG117 NRG TENDL-2015, AKONING
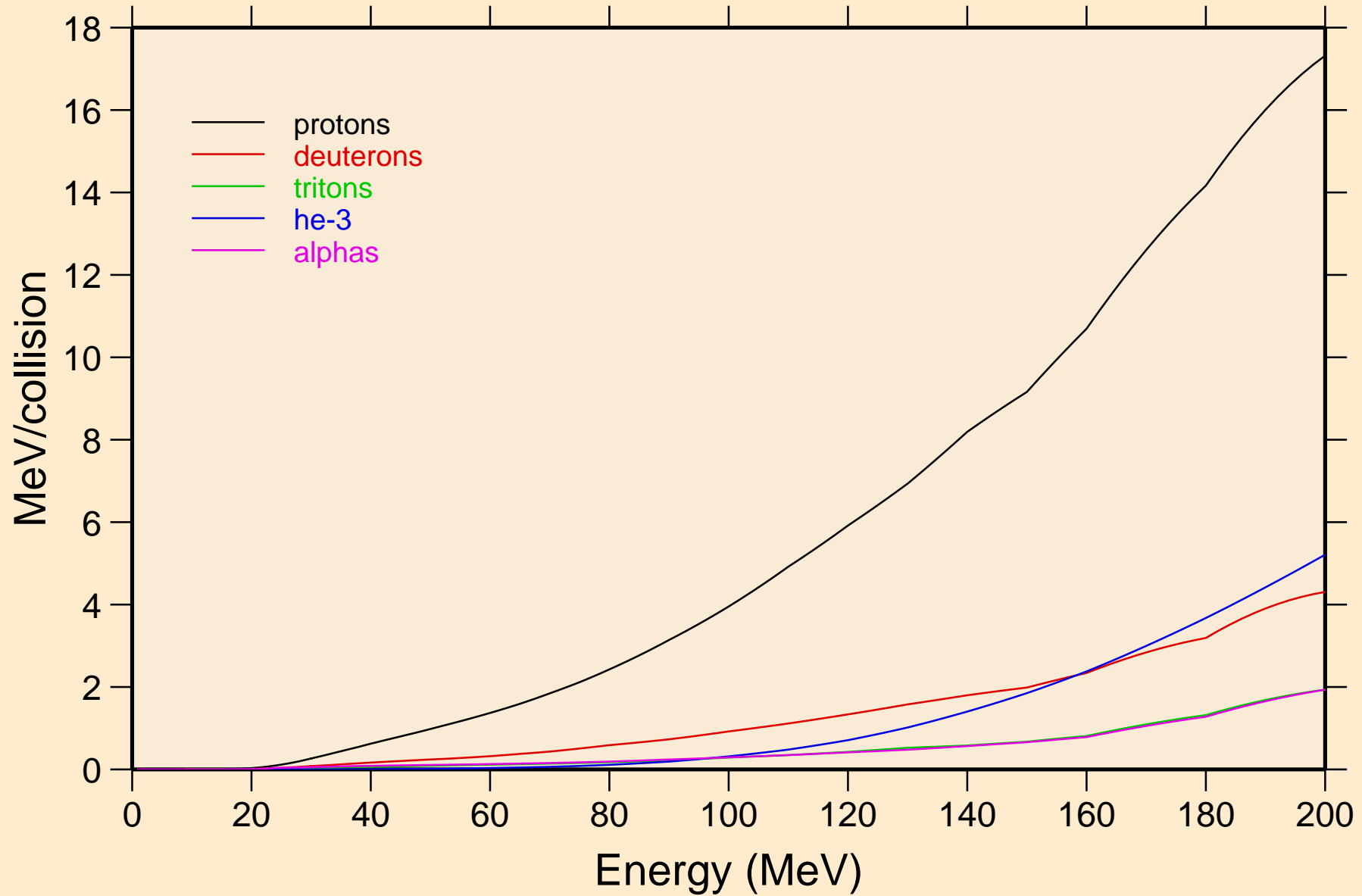thermal capture photon spectrum

AG117 NRG TENDL-2015, AKONING
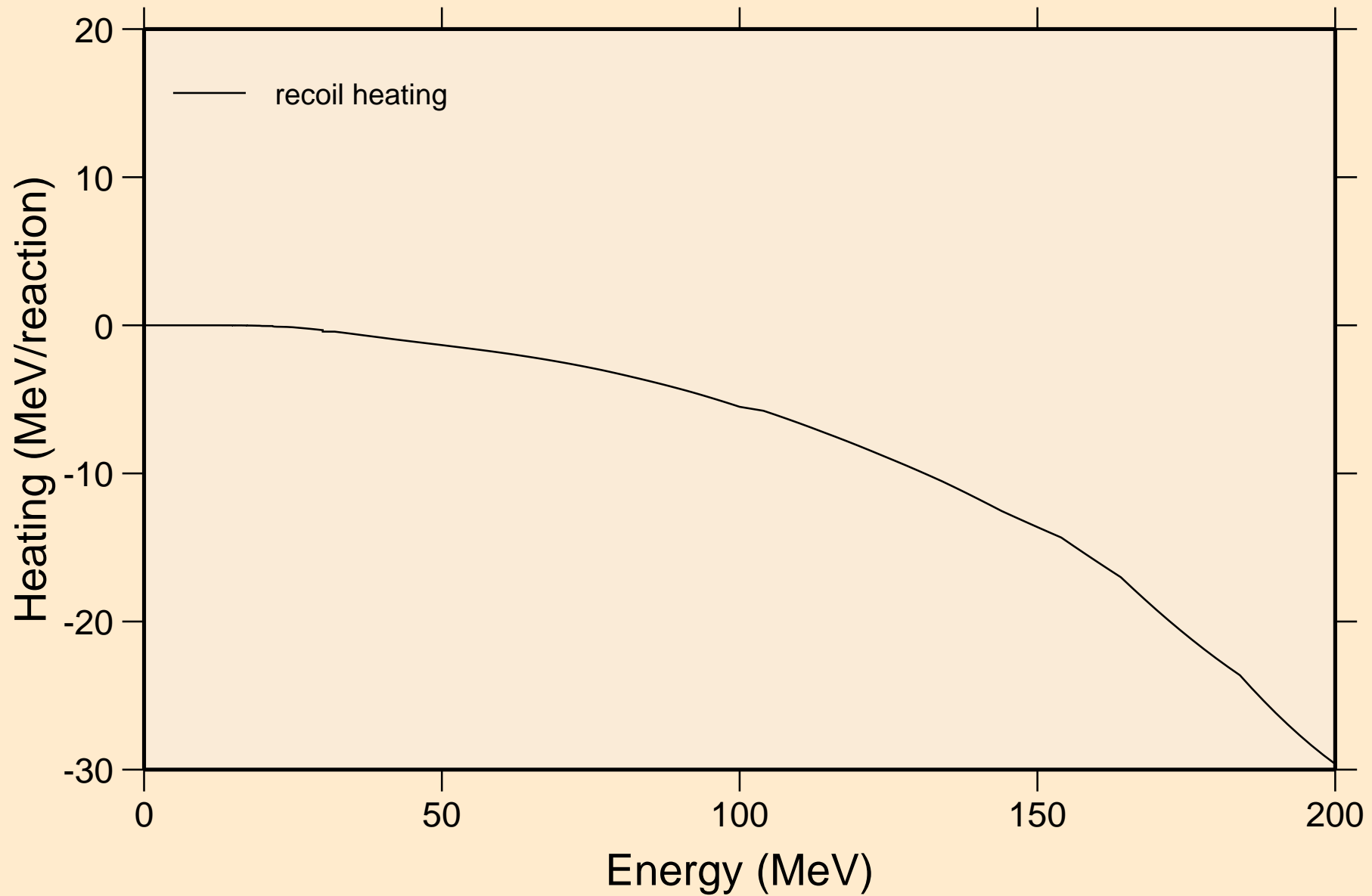14 MeV photon spectrum

AG117 NRG TENDL-2015, AKONING
Particle heating contributions

Legend:
- protons (black)
- deuterons (red)
- tritons (green)
- he-3 (blue)
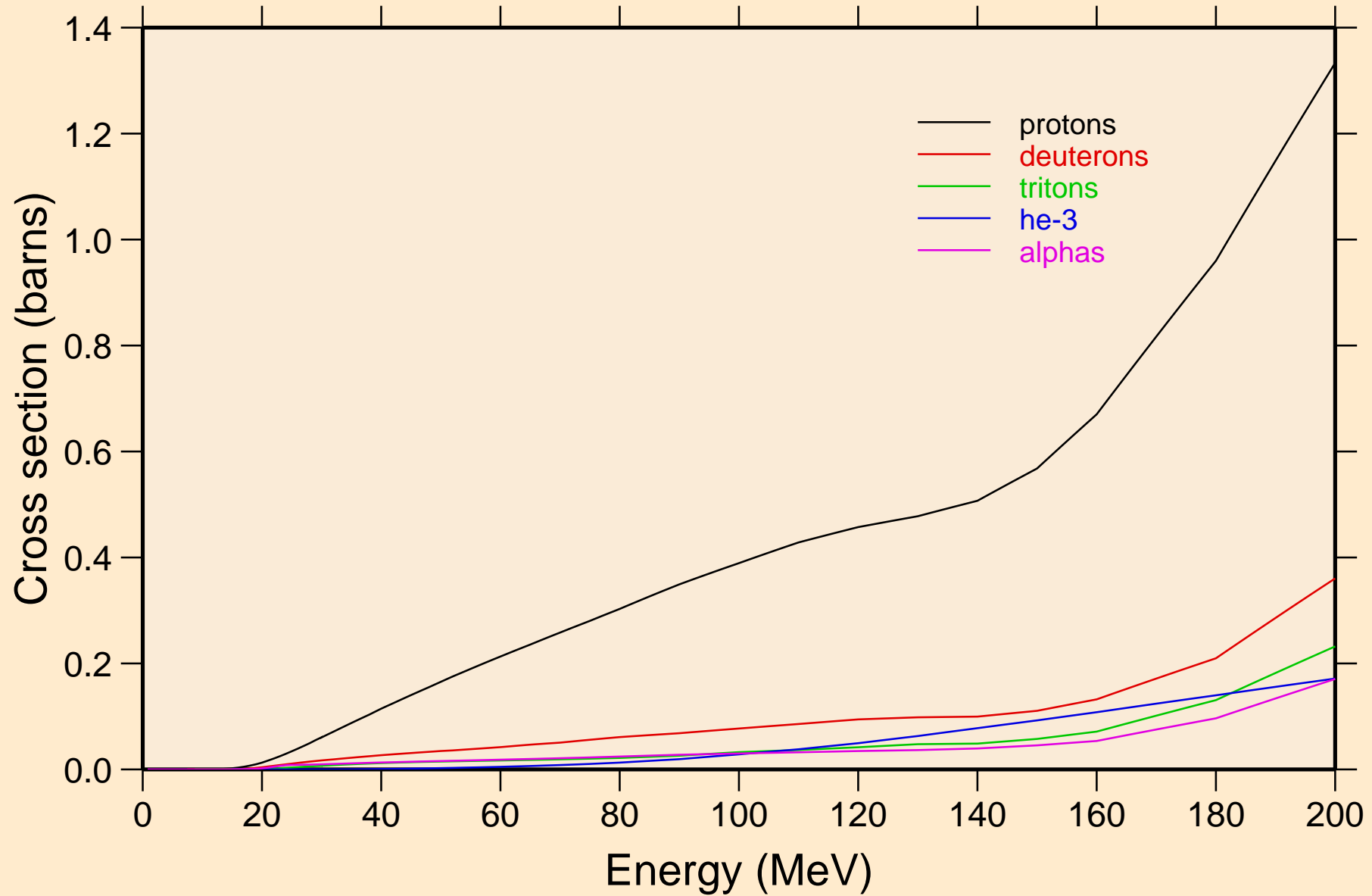- alphas (magenta)

Y-axis: MeV/collision
X-axis: Energy (MeV)
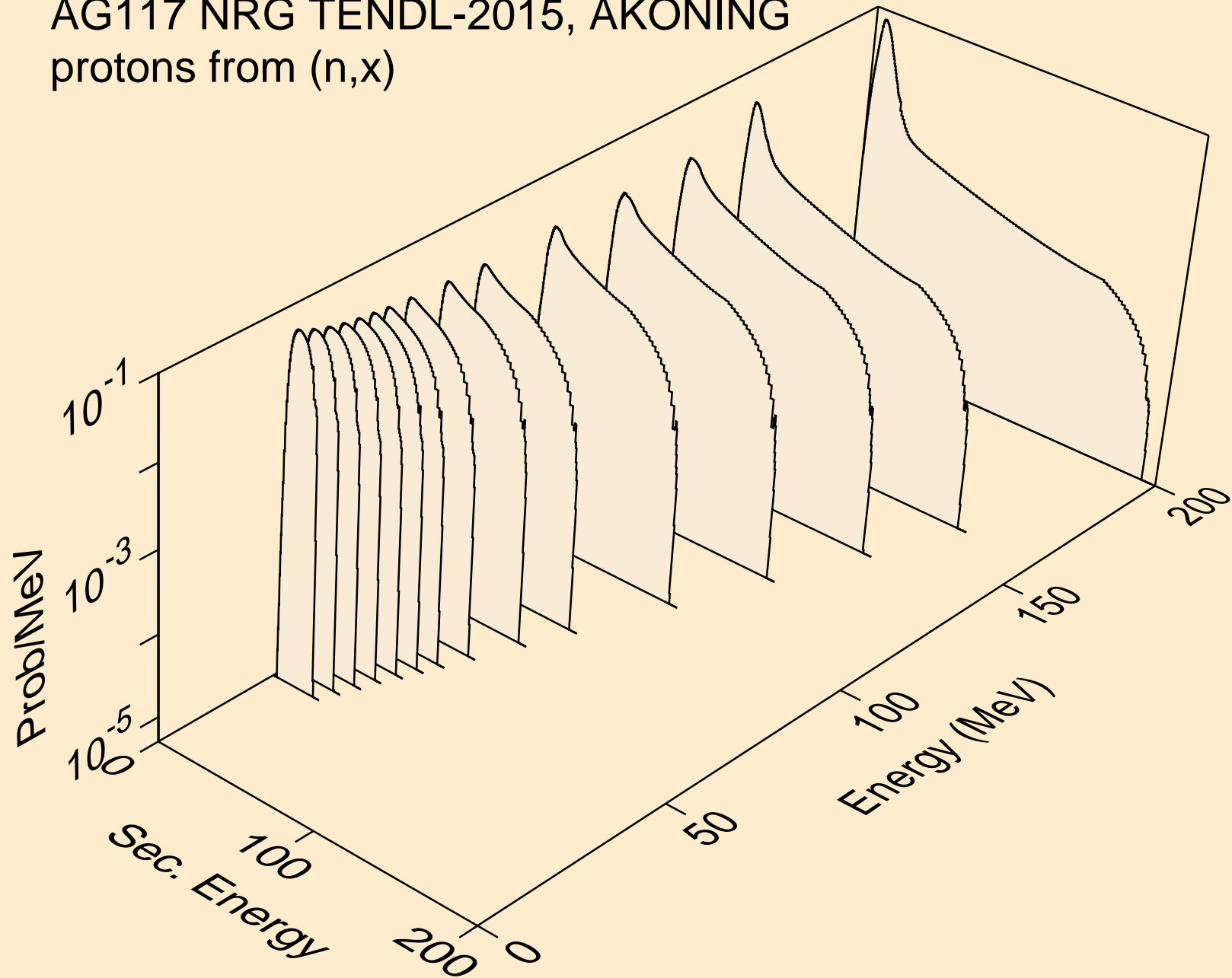
AG117 NRG TENDL-2015, AKONING
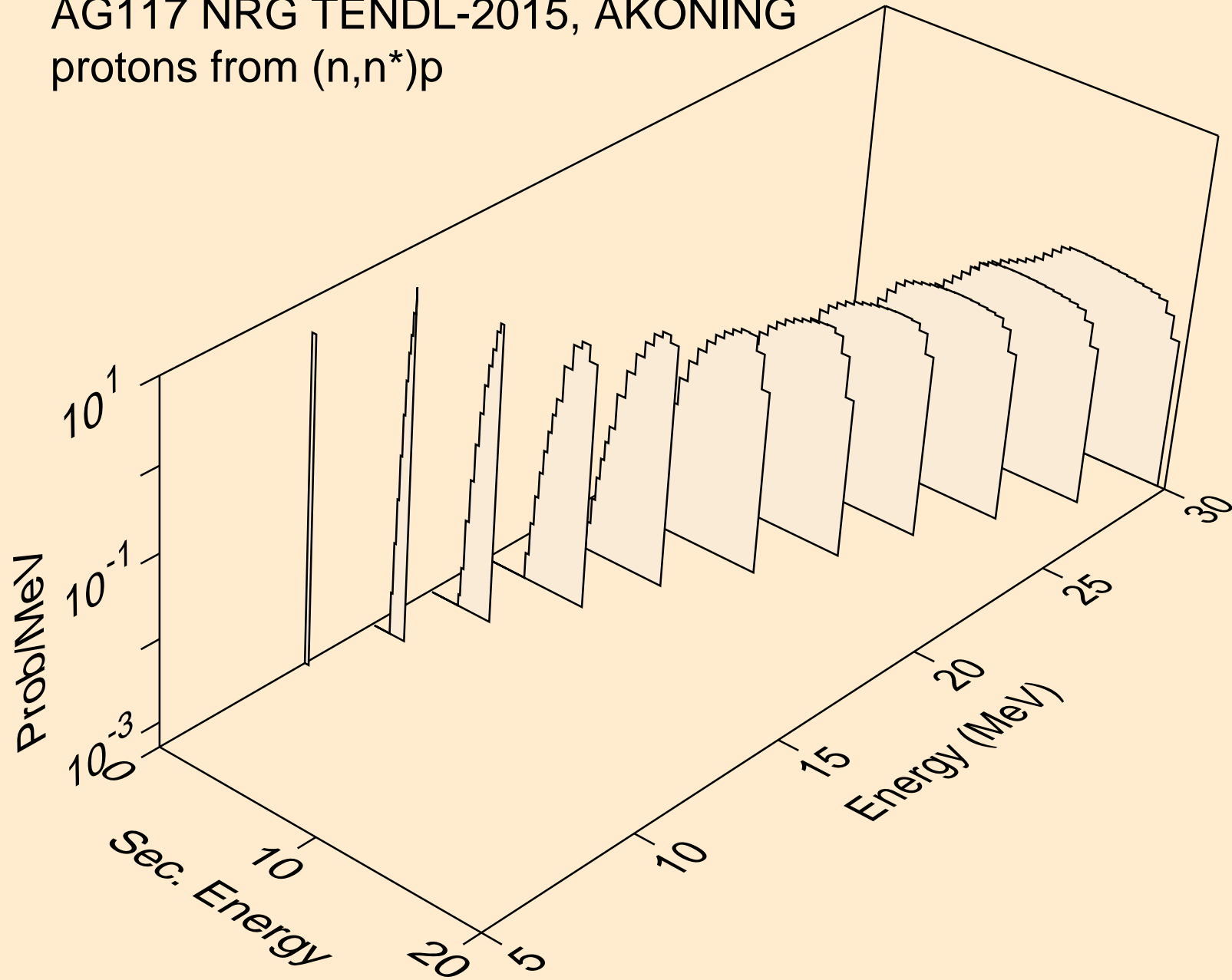Recoil Heating

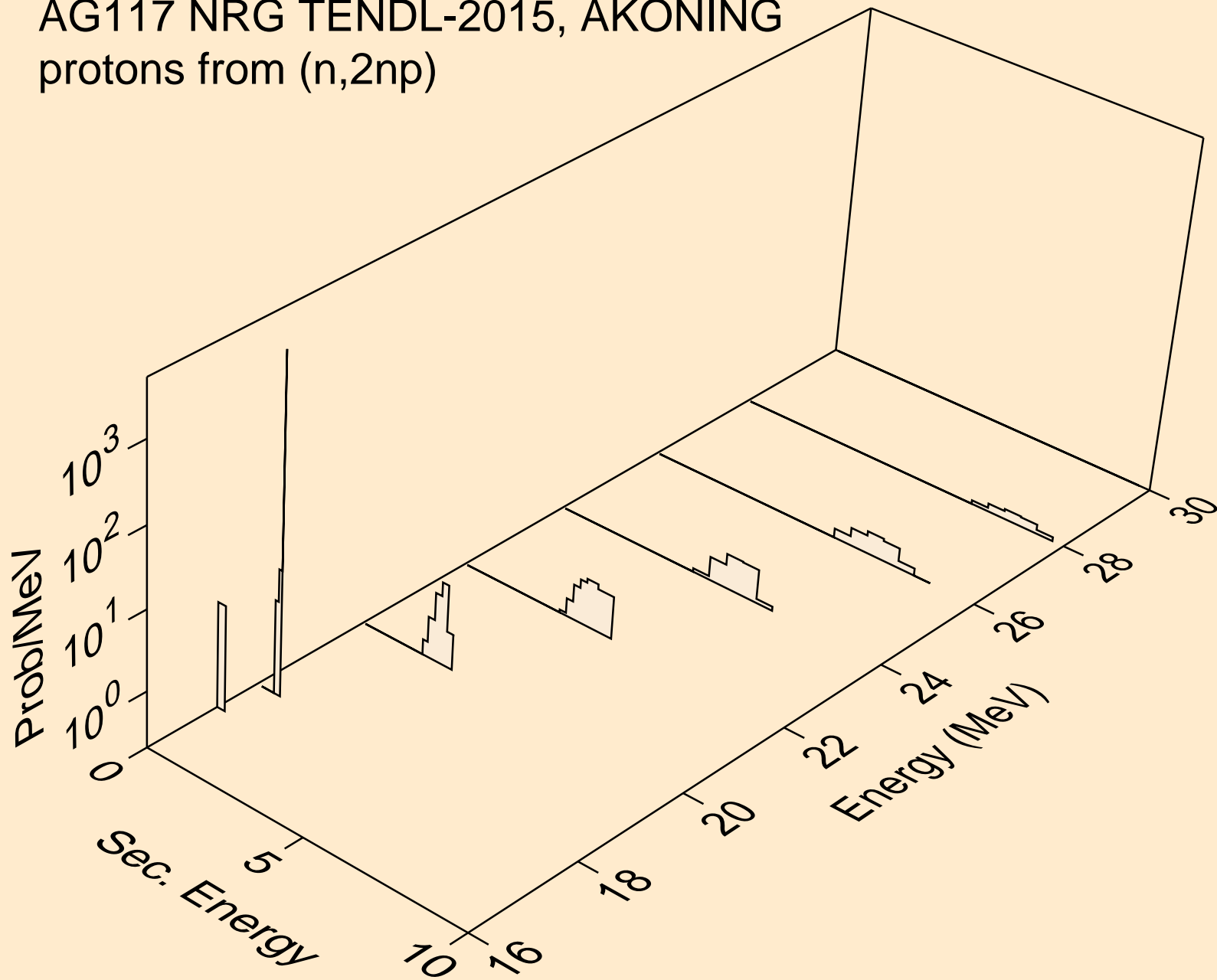AG117 NRG TENDL-2015, AKONING
Particle production cross sections
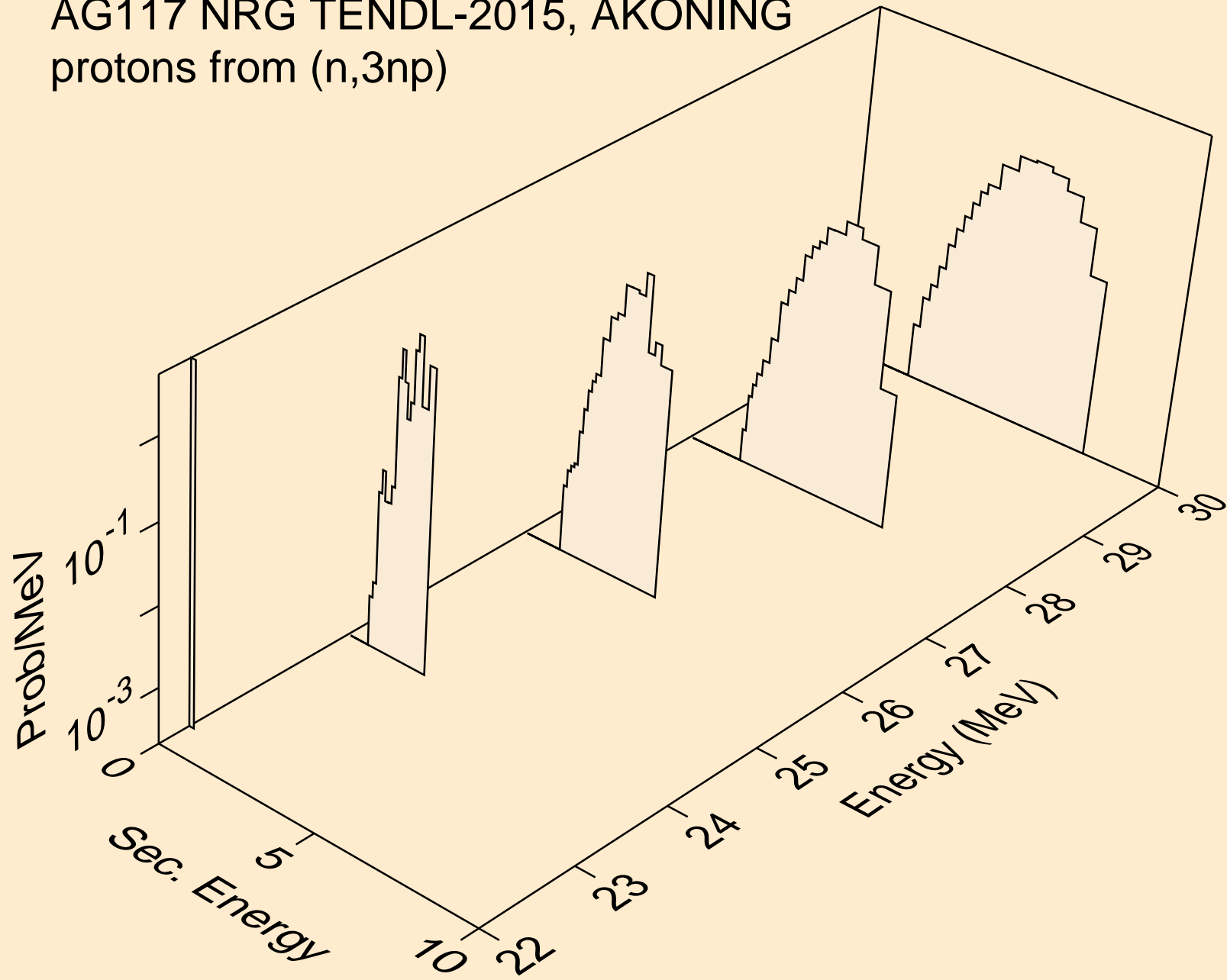
AG117 NRG TENDL-2015, AKONING
protons from (n,x)
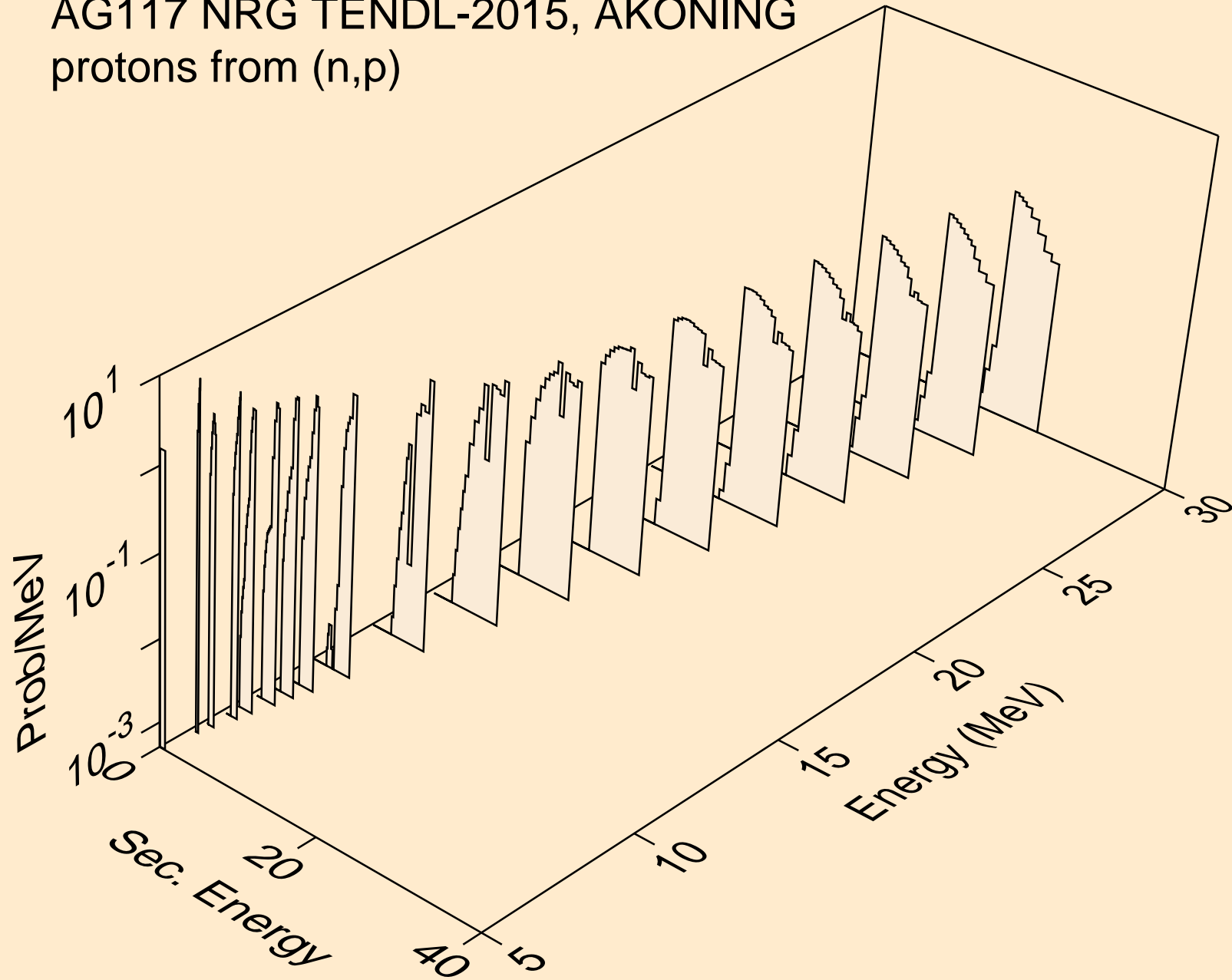
AG117 NRG TENDL-2015, AKONING
protons from (n,n*)p

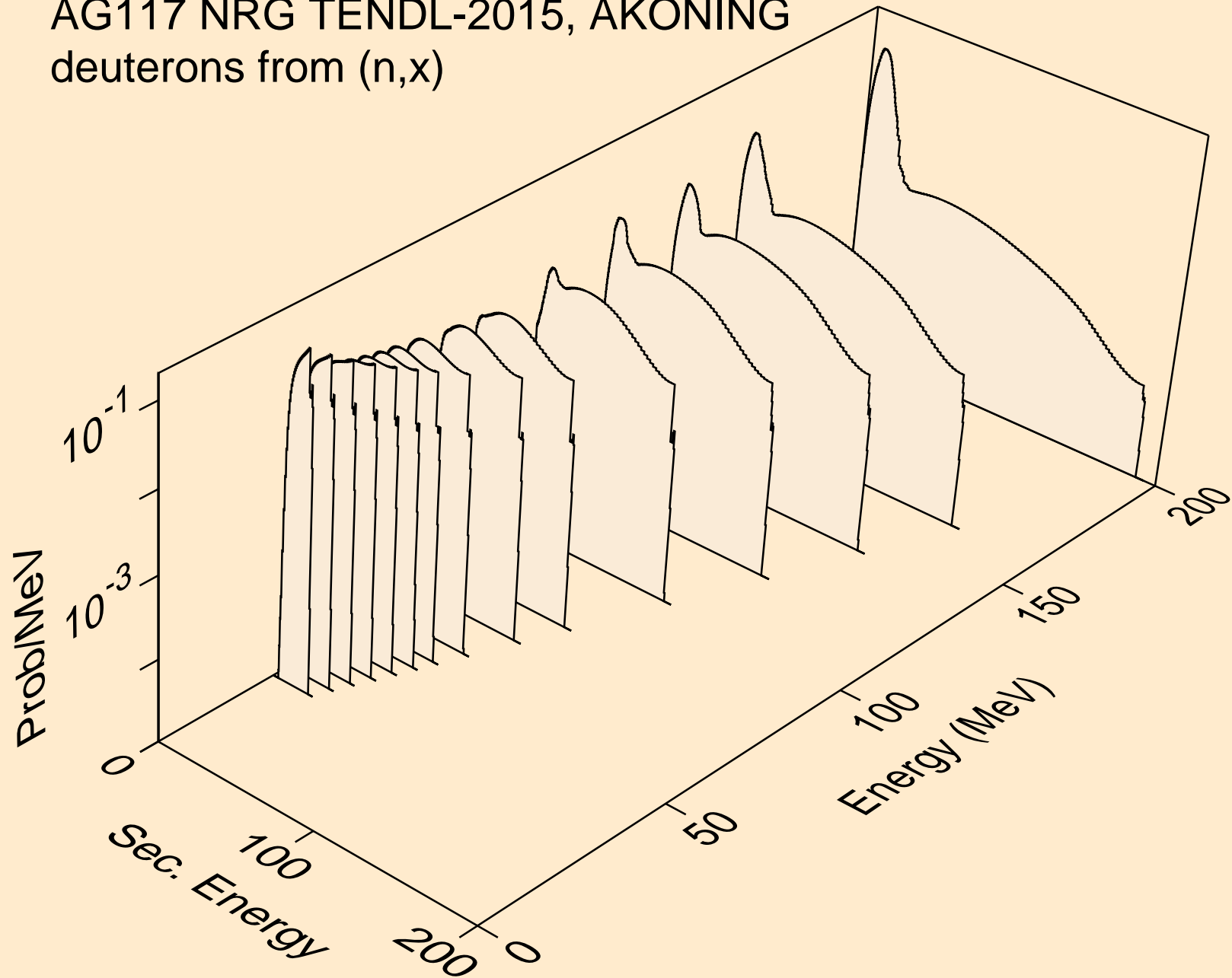AG117 NRG TENDL-2015, AKONING
protons from (n,2np)
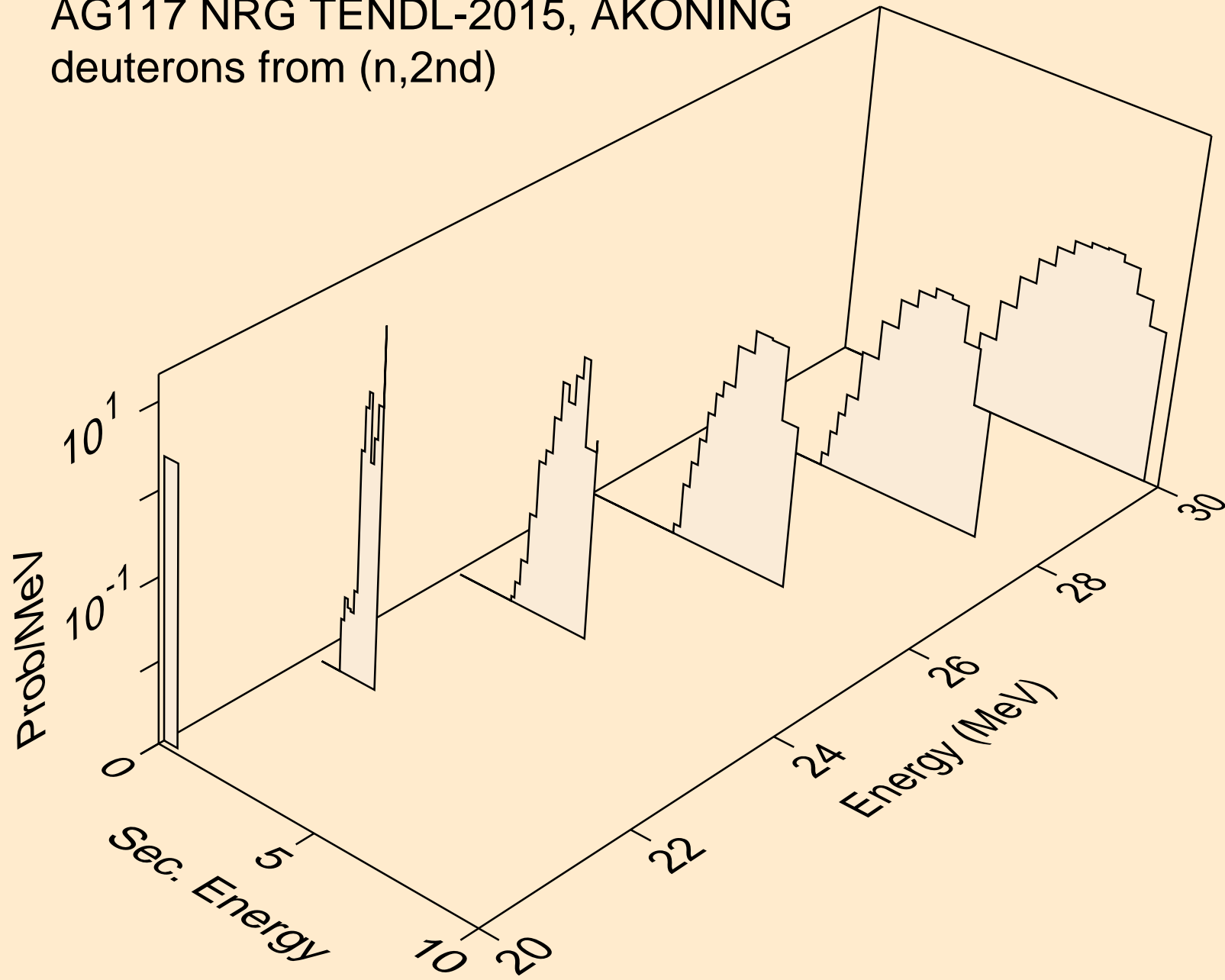
AG117 NRG TENDL-2015, AKONING
protons from (n,3np)
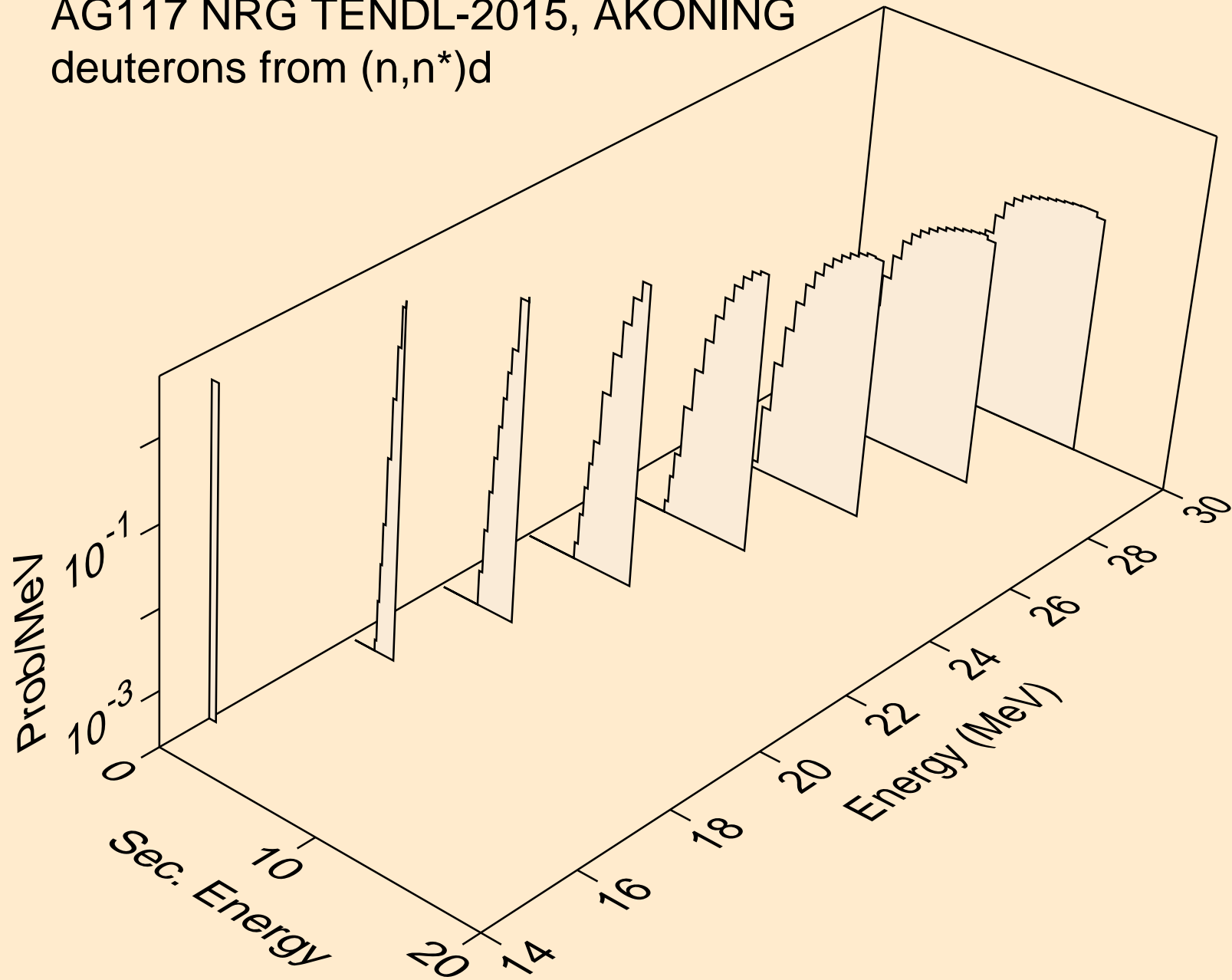
AG117 NRG TENDL-2015, AKONING
protons from (n,p)

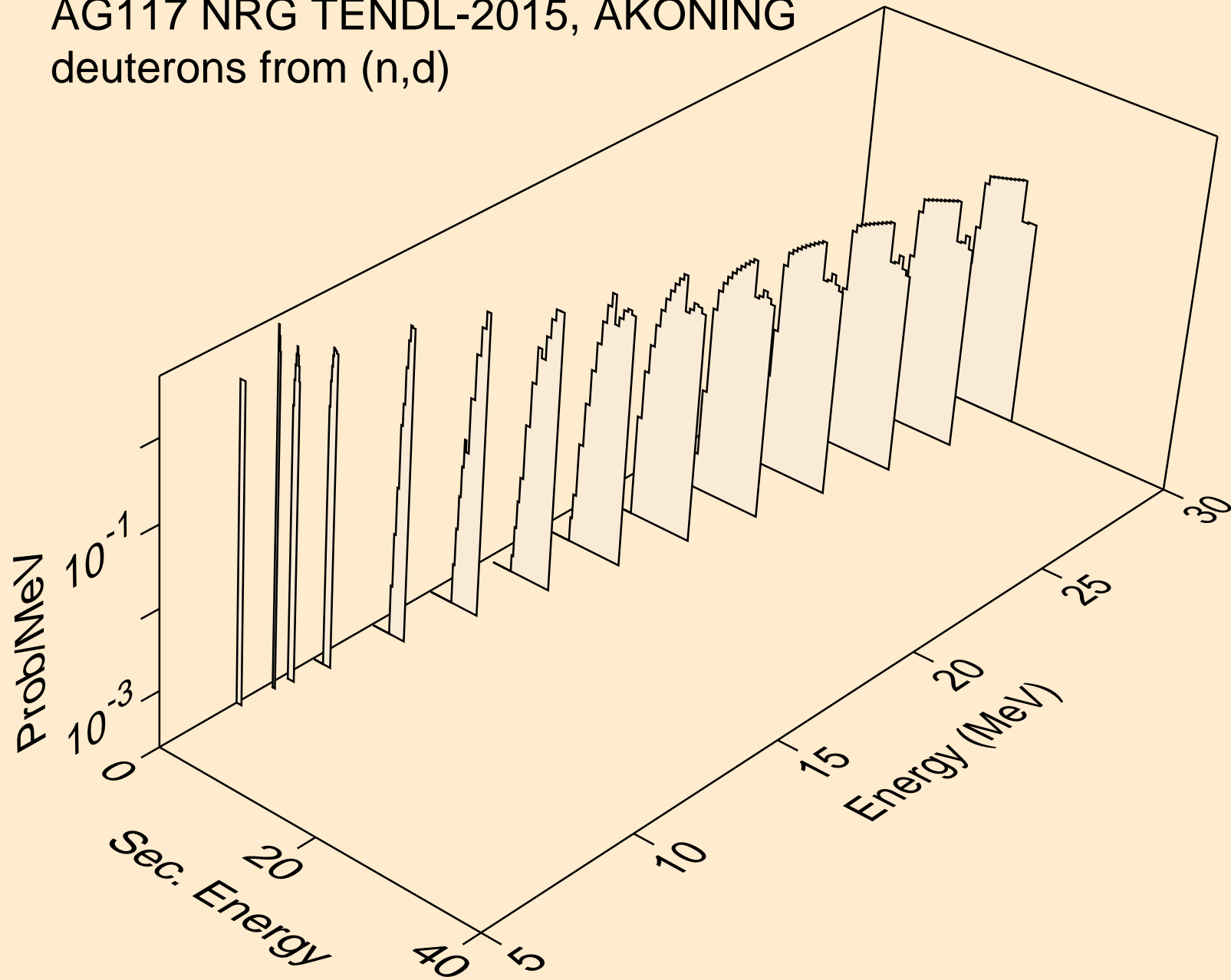AG117 NRG TENDL-2015, AKONING
deuterons from (n,x)

AG117 NRG TENDL-2015, AKONING
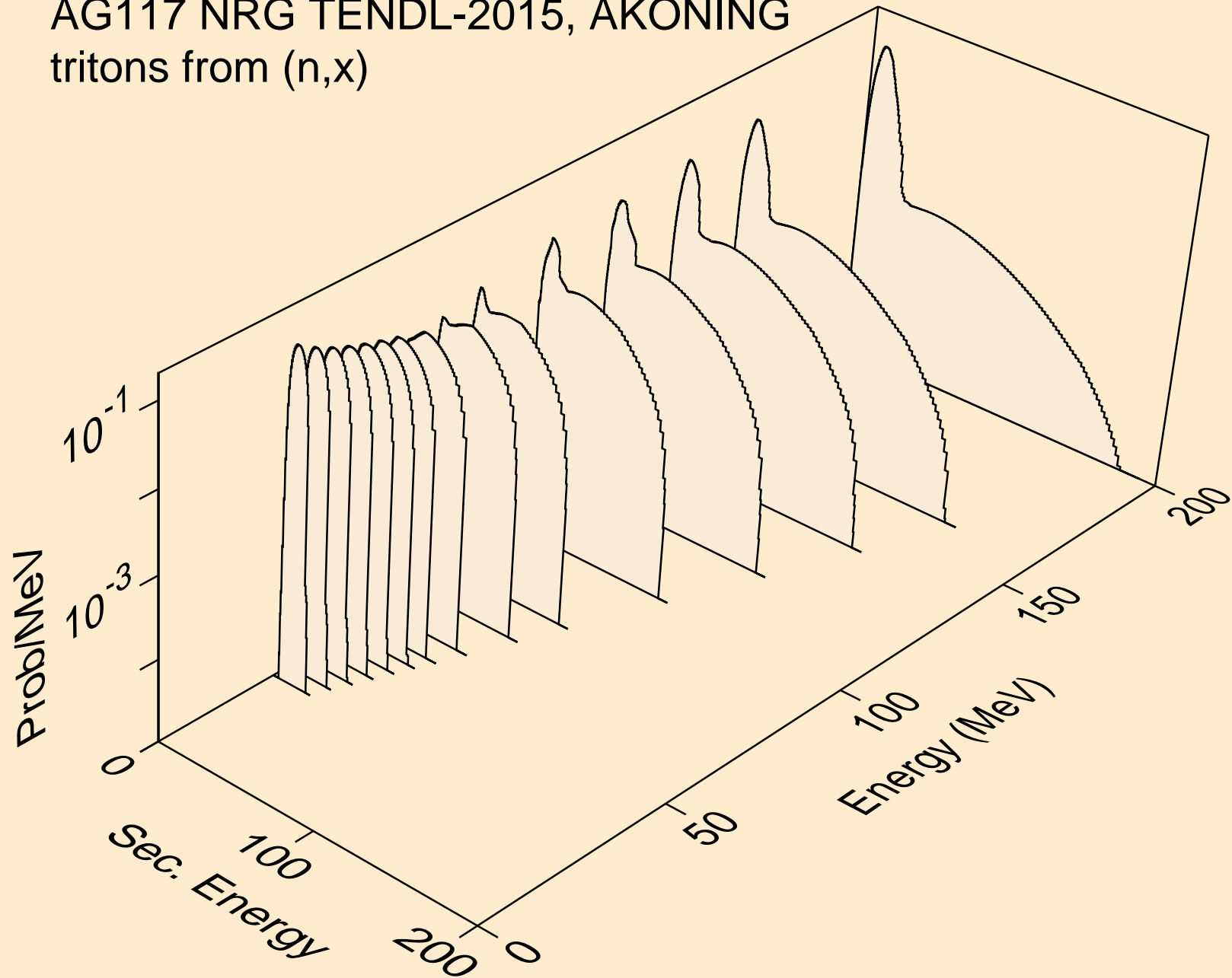deuterons from (n,2nd)

AG117 NRG TENDL-2015, AKONING
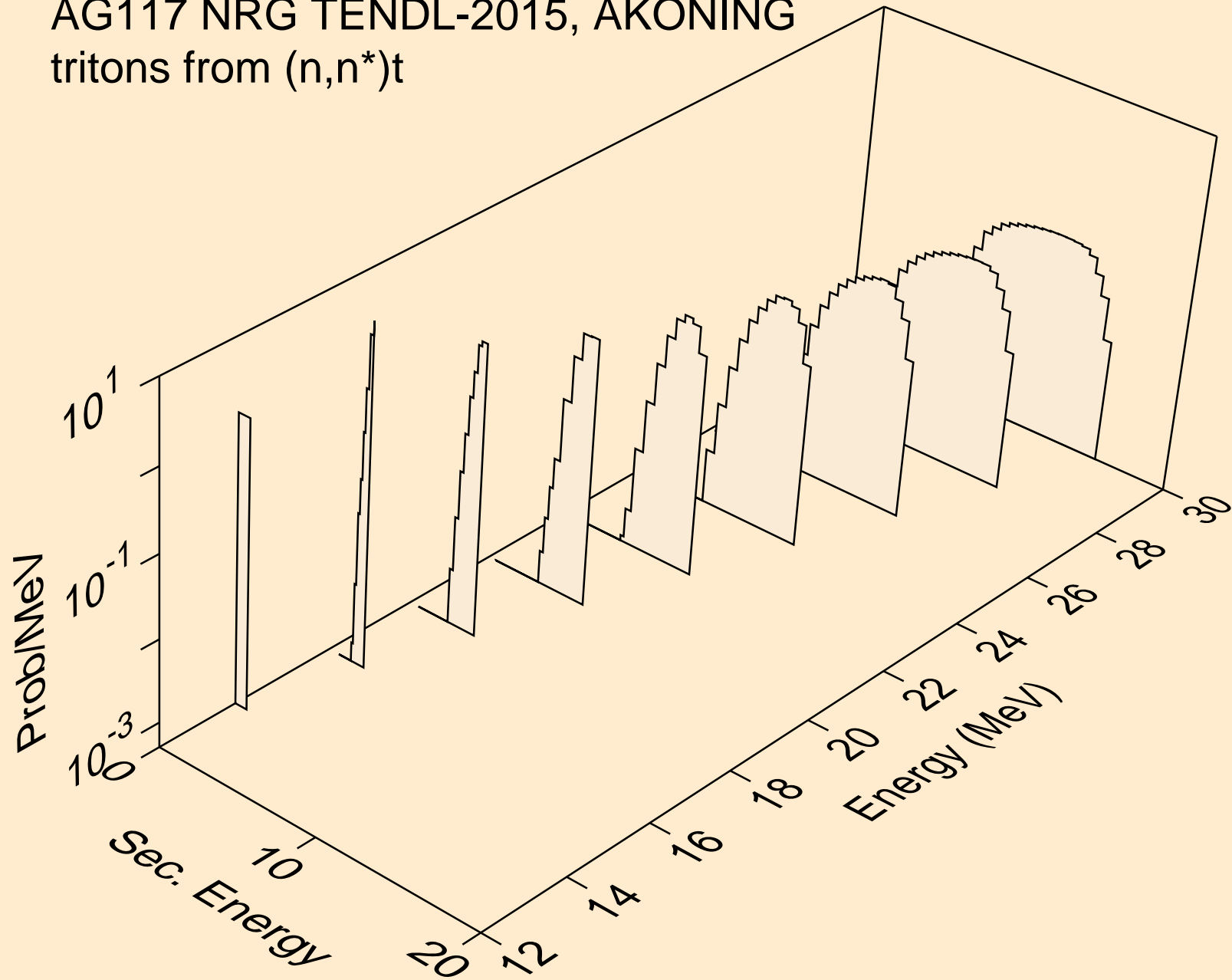deuterons from (n,n*)d

AG117 NRG TENDL-2015, AKONING
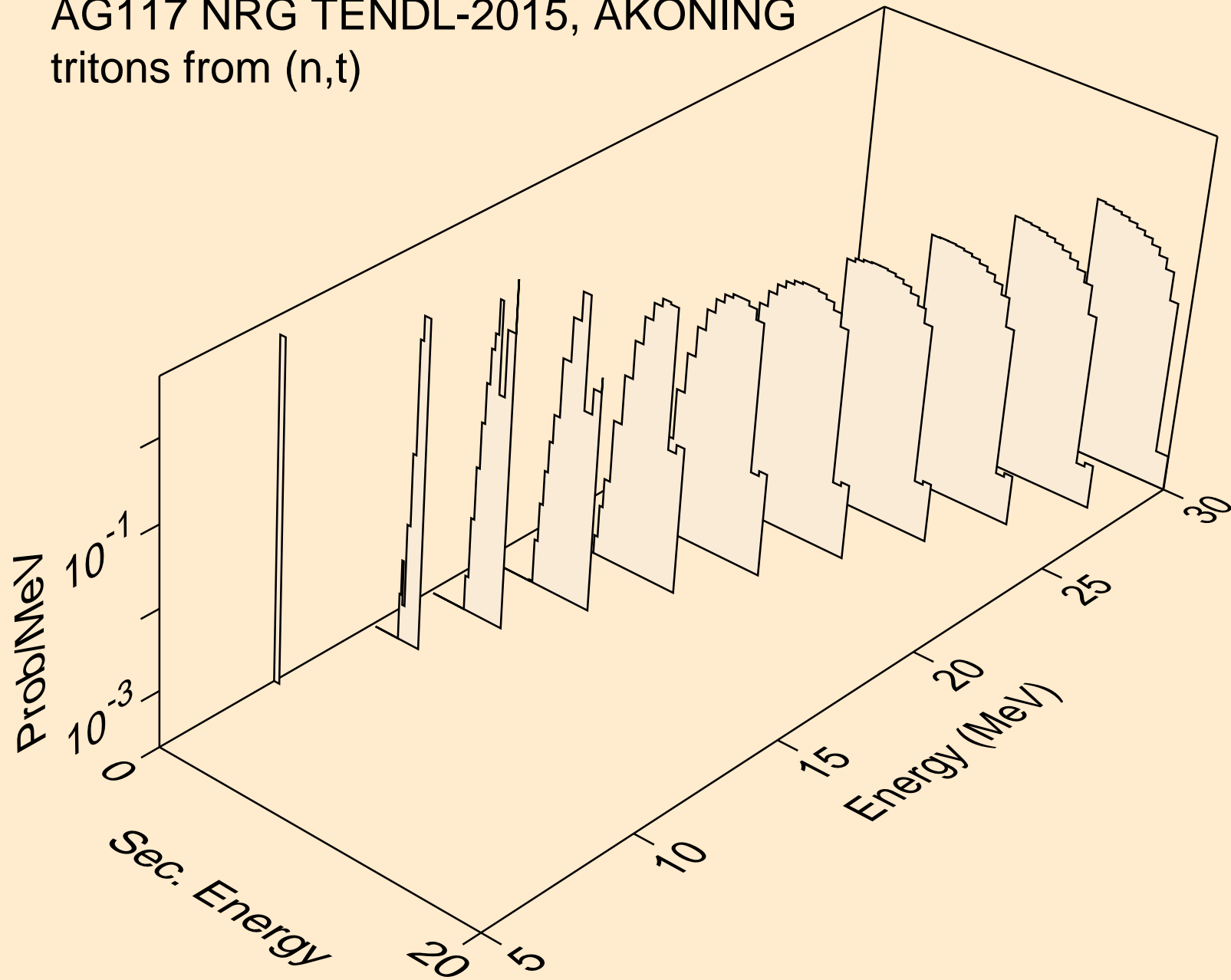deuterons from (n,d)

AG117 NRG TENDL-2015, AKONING
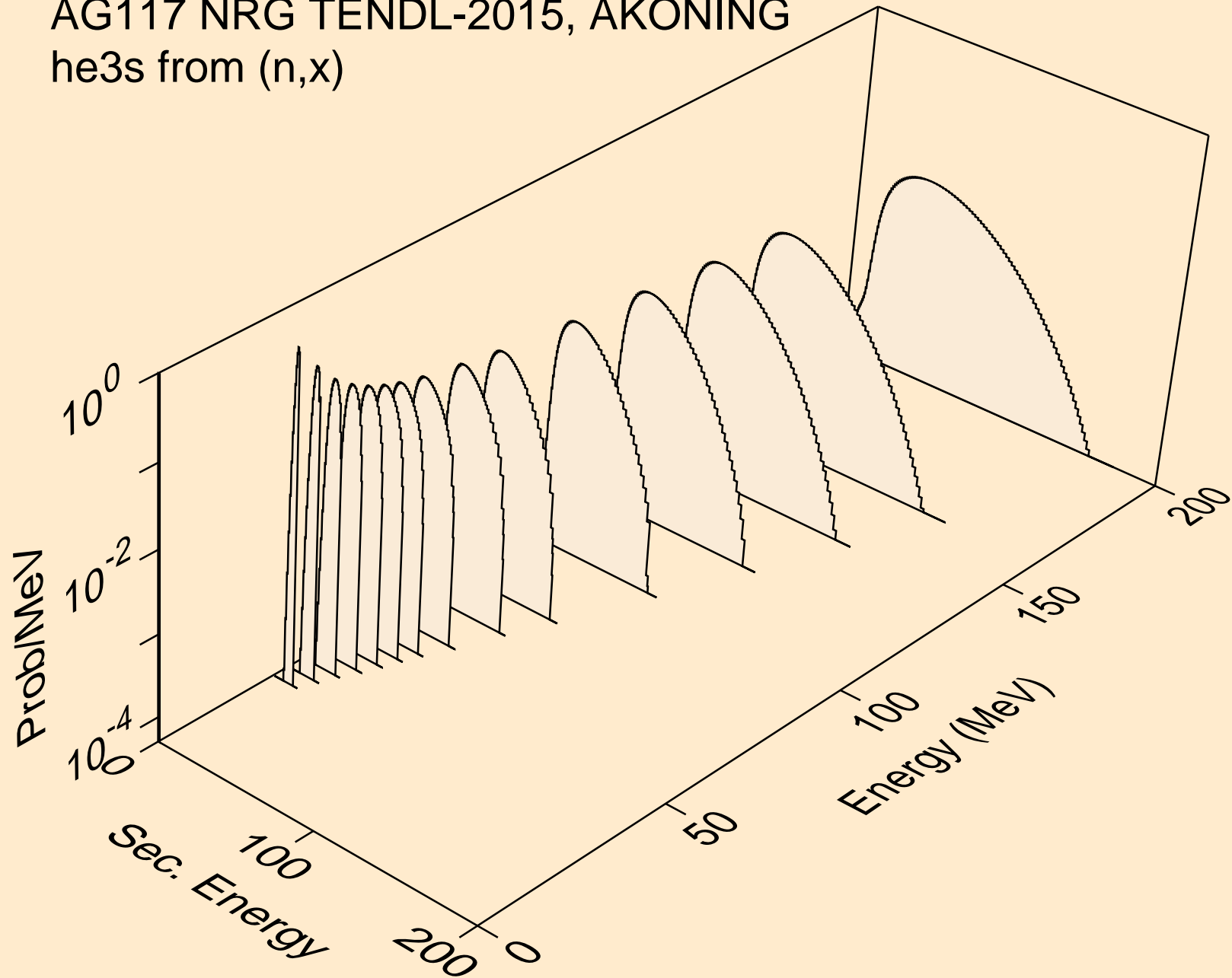tritons from (n,x)

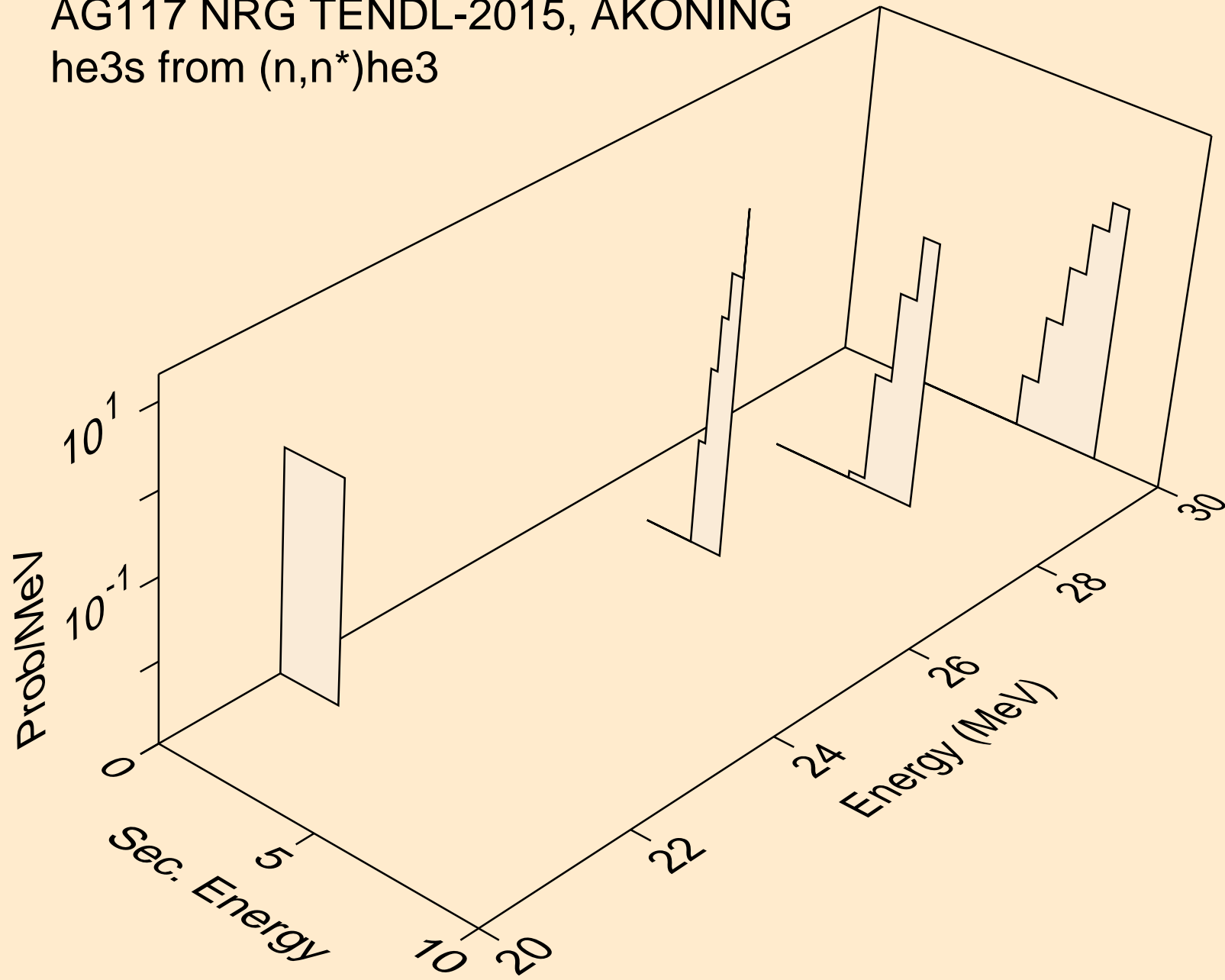AG117 NRG TENDL-2015, AKONING
tritons from (n,n*)t

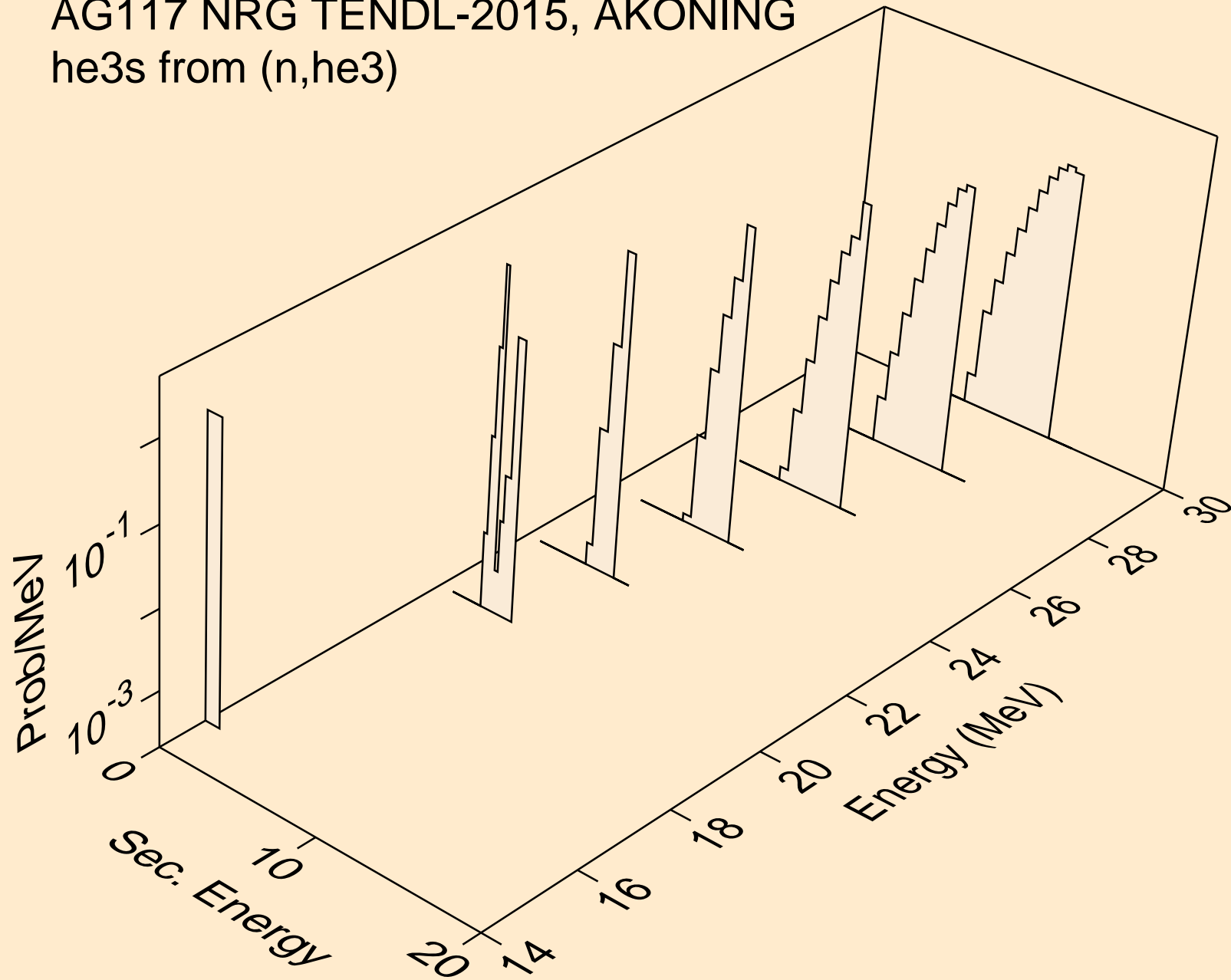AG117 NRG TENDL-2015, AKONING
tritons from (n,t)

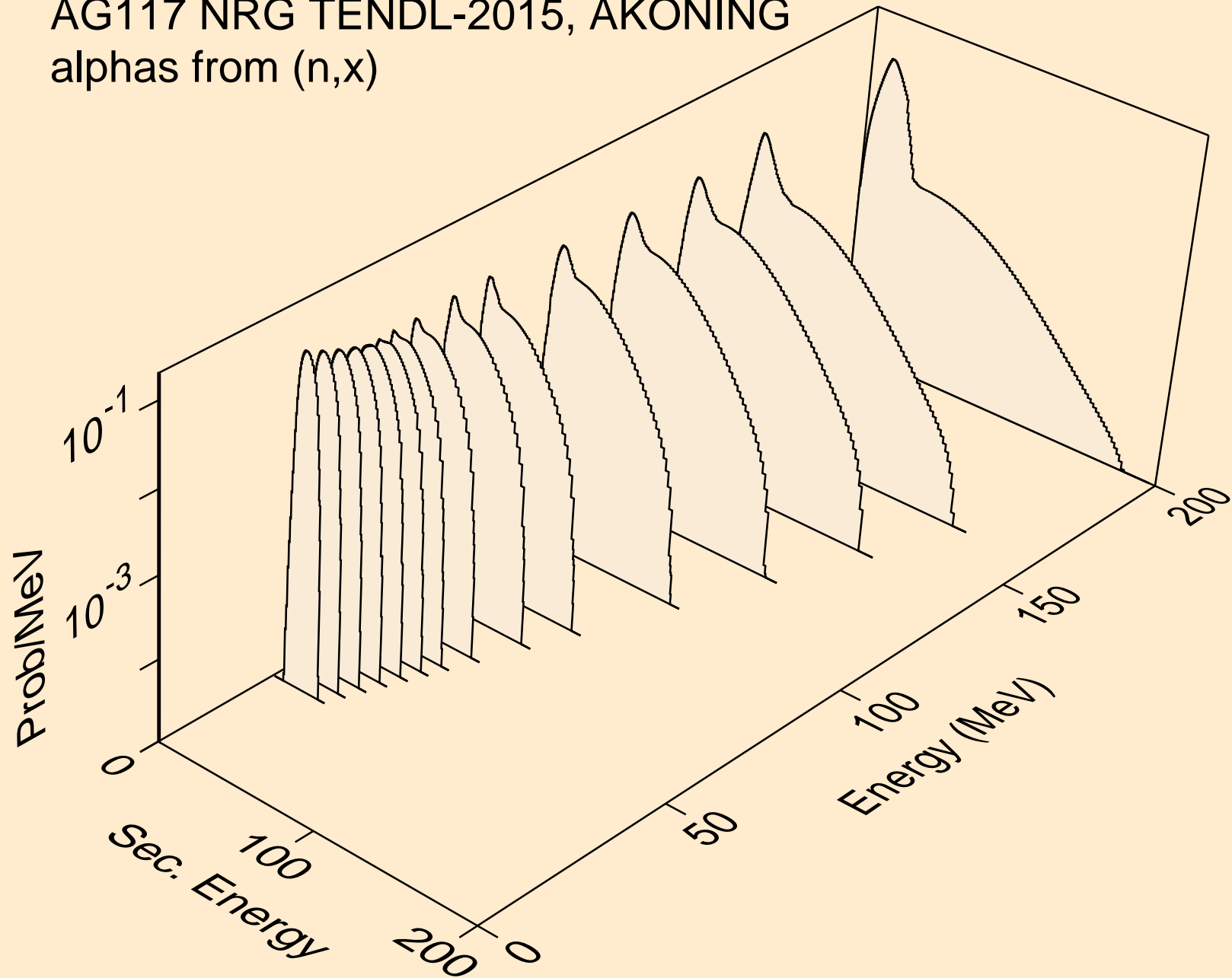AG117 NRG TENDL-2015, AKONING
he3s from (n,x)

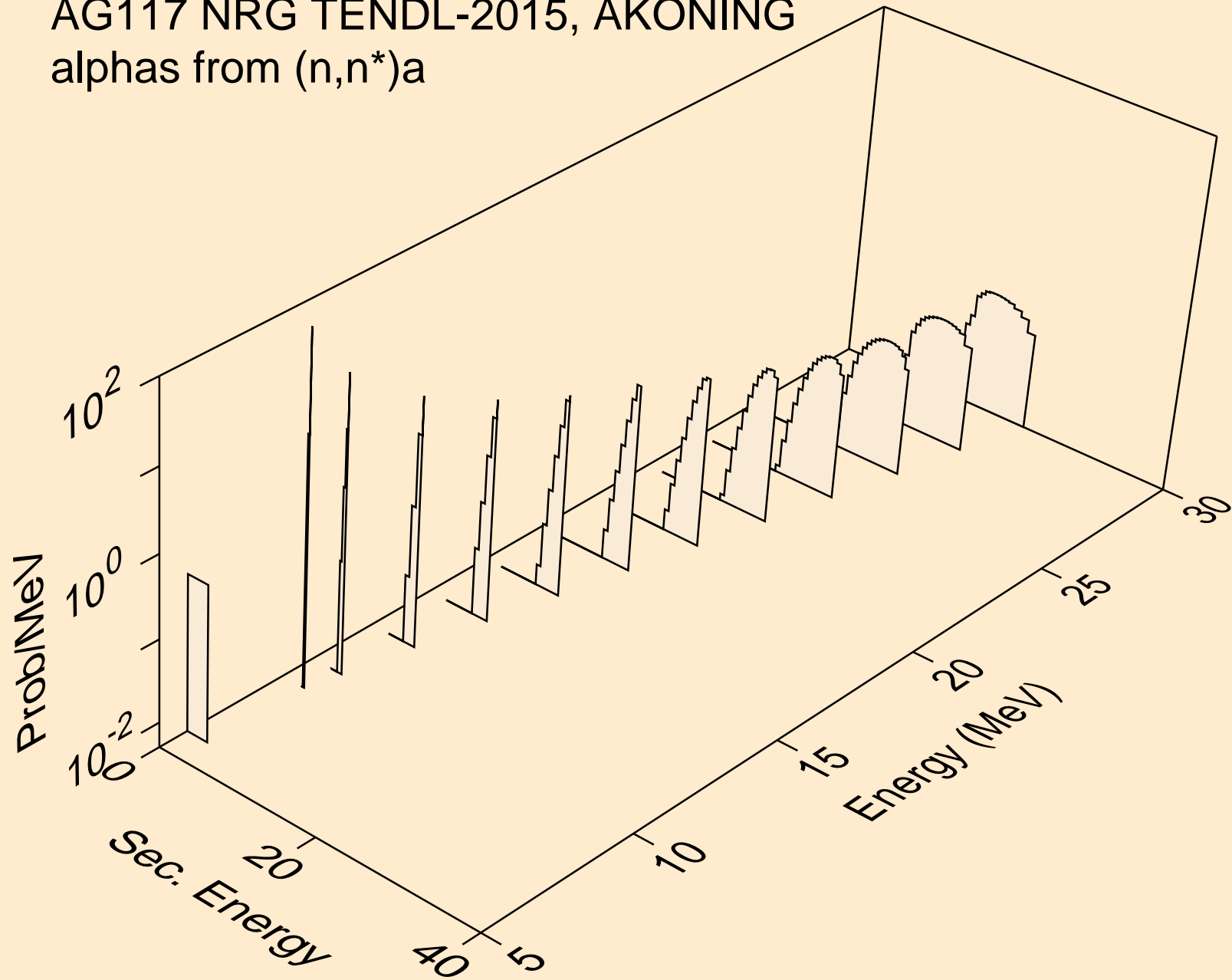AG117 NRG TENDL-2015, AKONING
he3s from (n,n*)he3
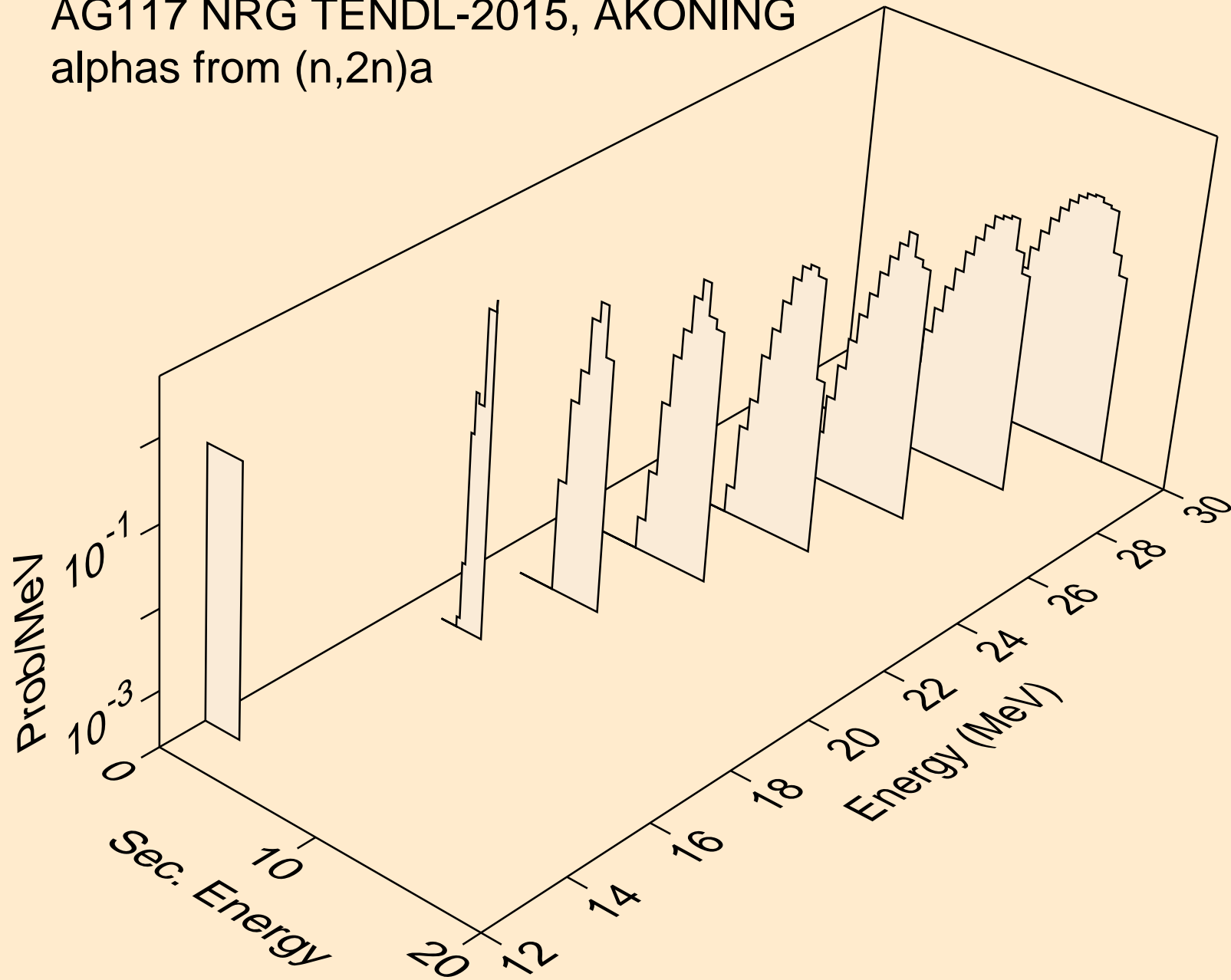
AG117 NRG TENDL-2015, AKONING
he3s from (n,he3)

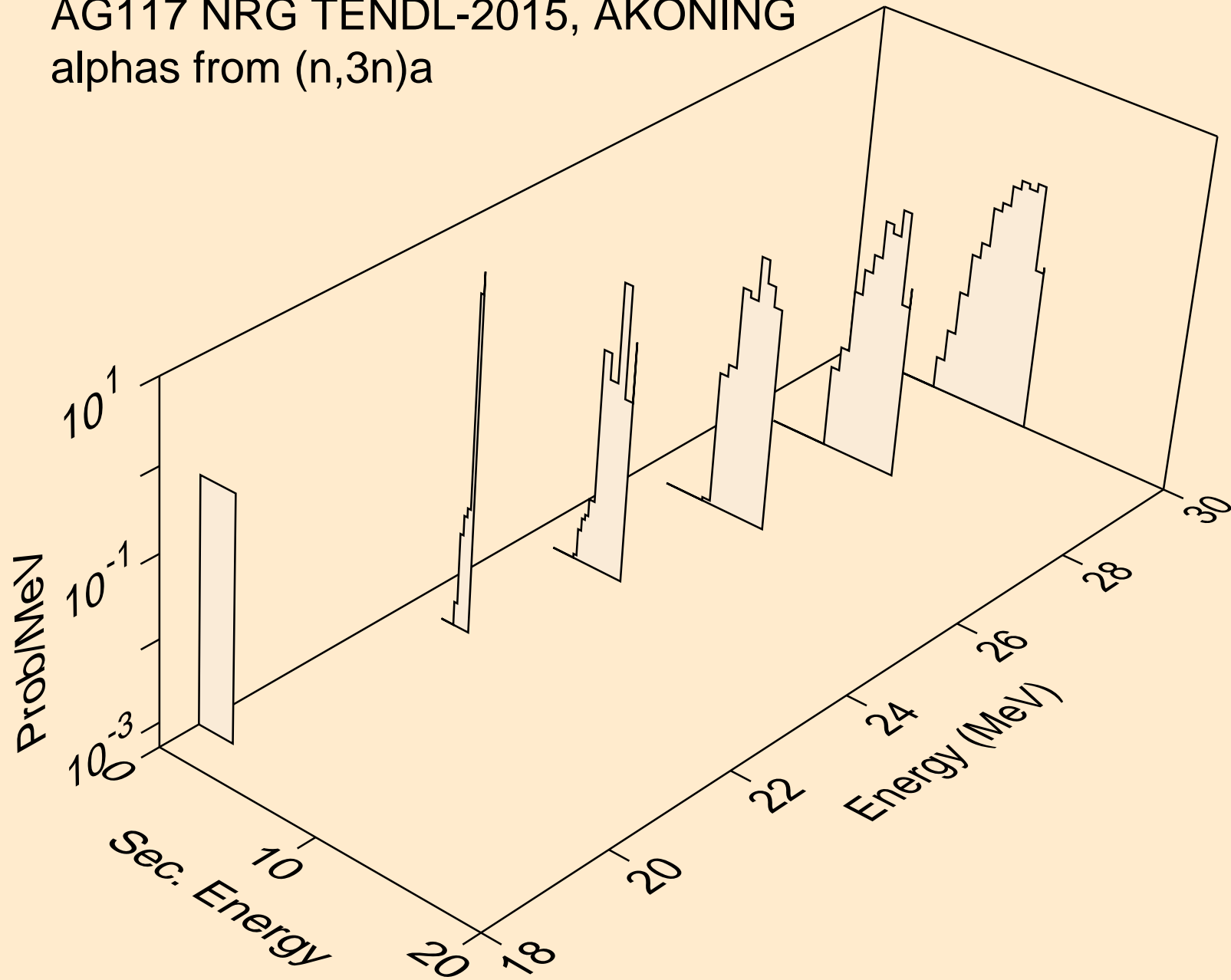AG117 NRG TENDL-2015, AKONING
alphas from (n,x)

AG117 NRG TENDL-2015, AKONING
alphas from (n,n*)a

AG117 NRG TENDL-2015, AKONING
alphas from (n,2n)a

AG117 NRG TENDL-2015, AKONING
alphas from (n,3n)a

AG117 NRG TENDL-2015, AKONING
alphas from (n,a)