RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
Principal cross sections
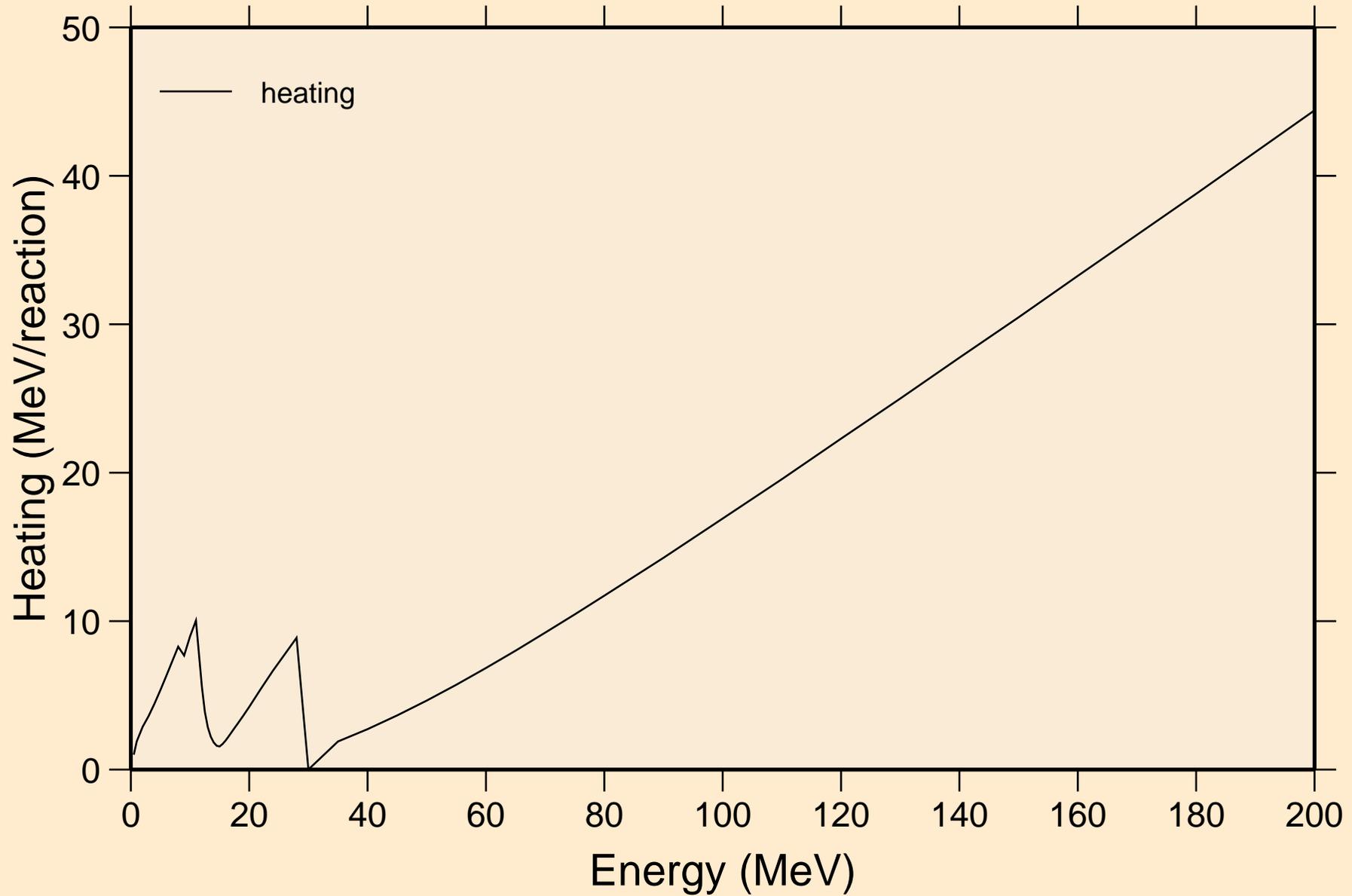
Cross section (barns)

*10^{-3}

total

Energy (MeV)
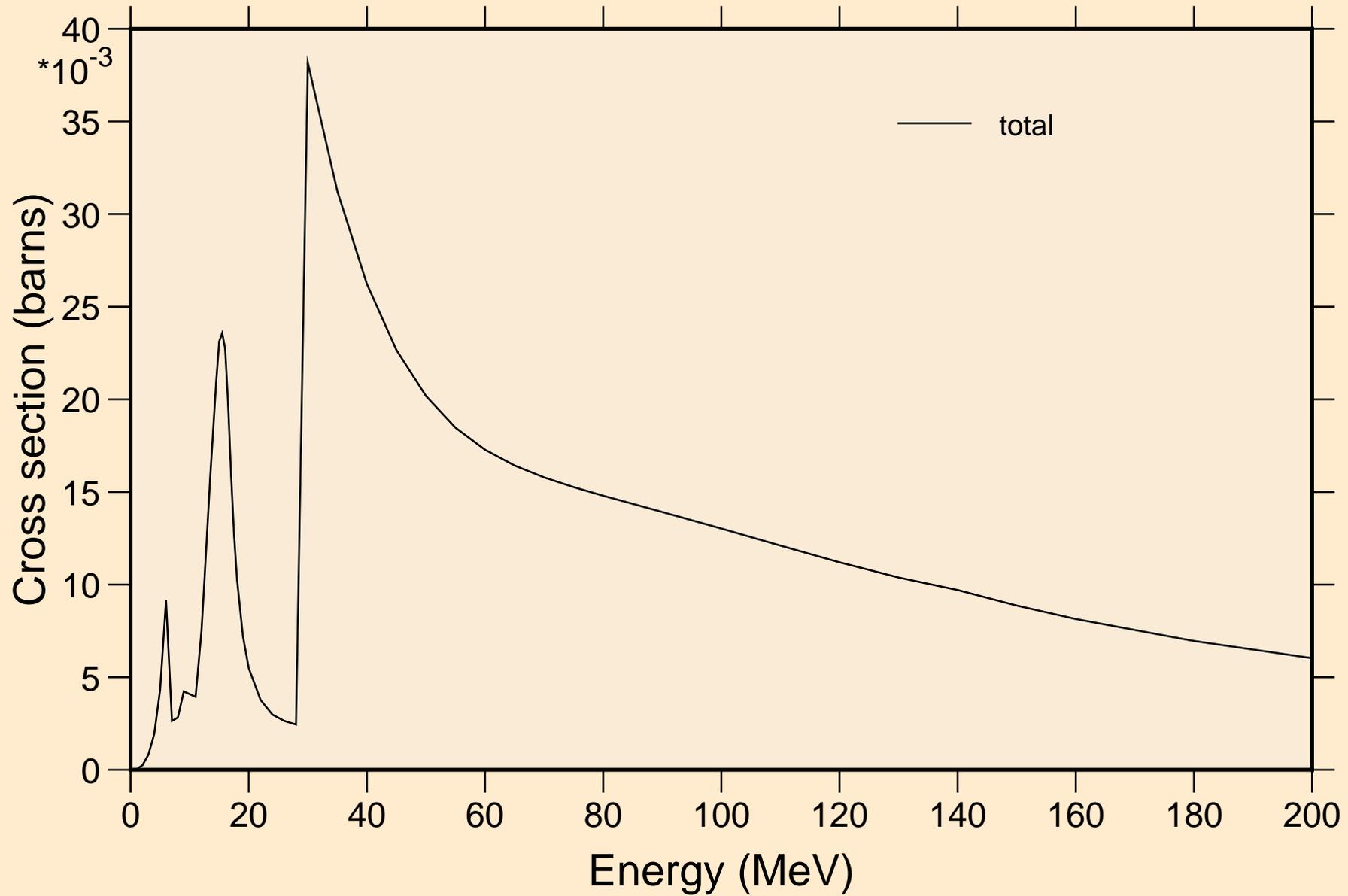
RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
Partial cross sections

Cross section (barns)

*10^{-3}

Energy (MeV)

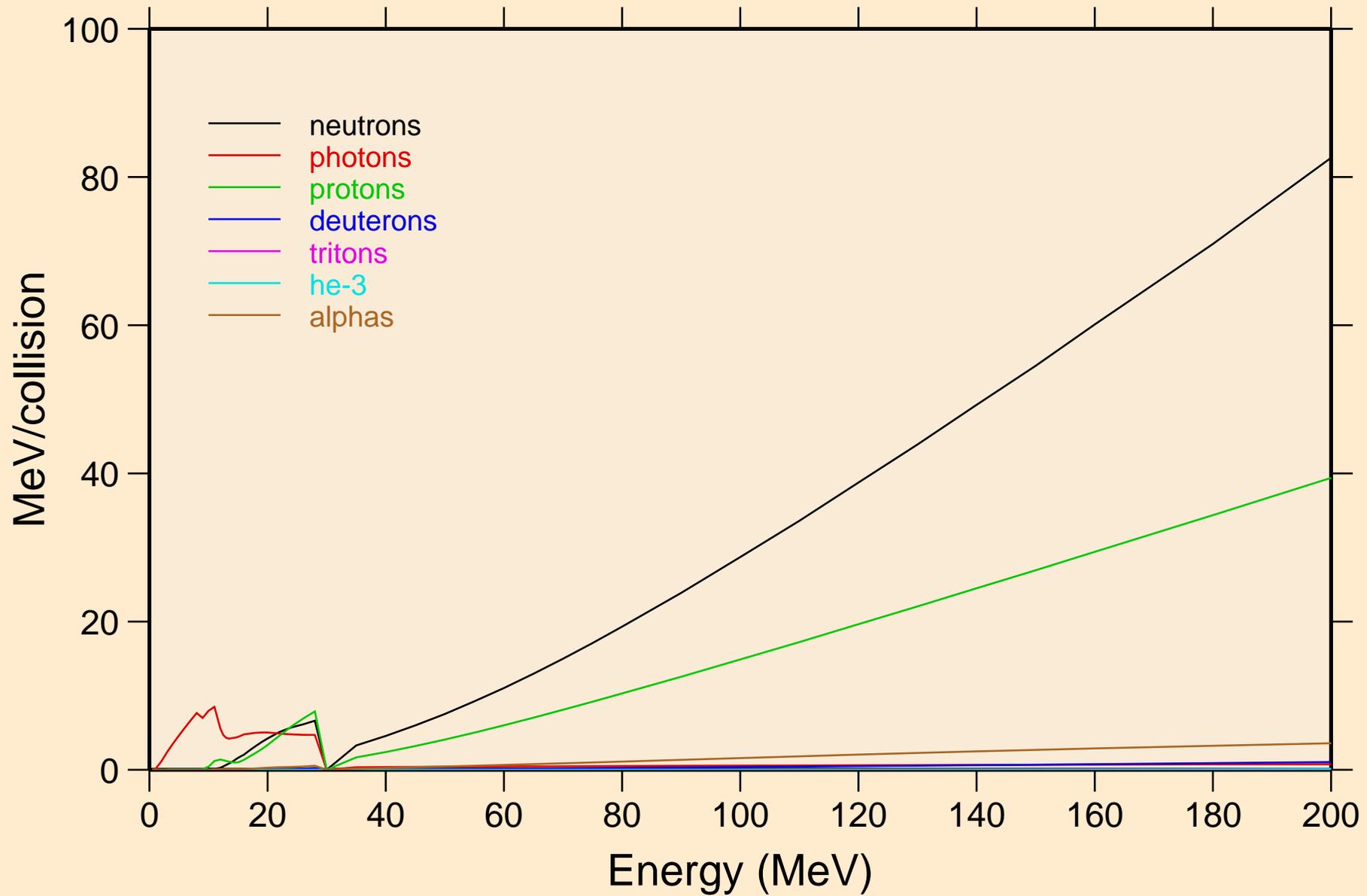|	
——	(g,x)
——	(g,2n)
——	(g,3n)
——	(g,n*)a
——	(g,2n)a
——	(g,n*)p
——	(g,n*)2a
——	(g,n*)d
– – –	(g,2np)
– – –	(g,n2p)
– – –	(g,npa)
– – –	(g,n*0)
– – –	(g,n*1)
– – –	(g,n*c)
– – –	(g,gma)
– – –	(g,p)
–·–·	(g,d)
–·–·	(g,t)
–·–·	(g,he3)
–·–·	(g,a)
–··–	(g,2a)
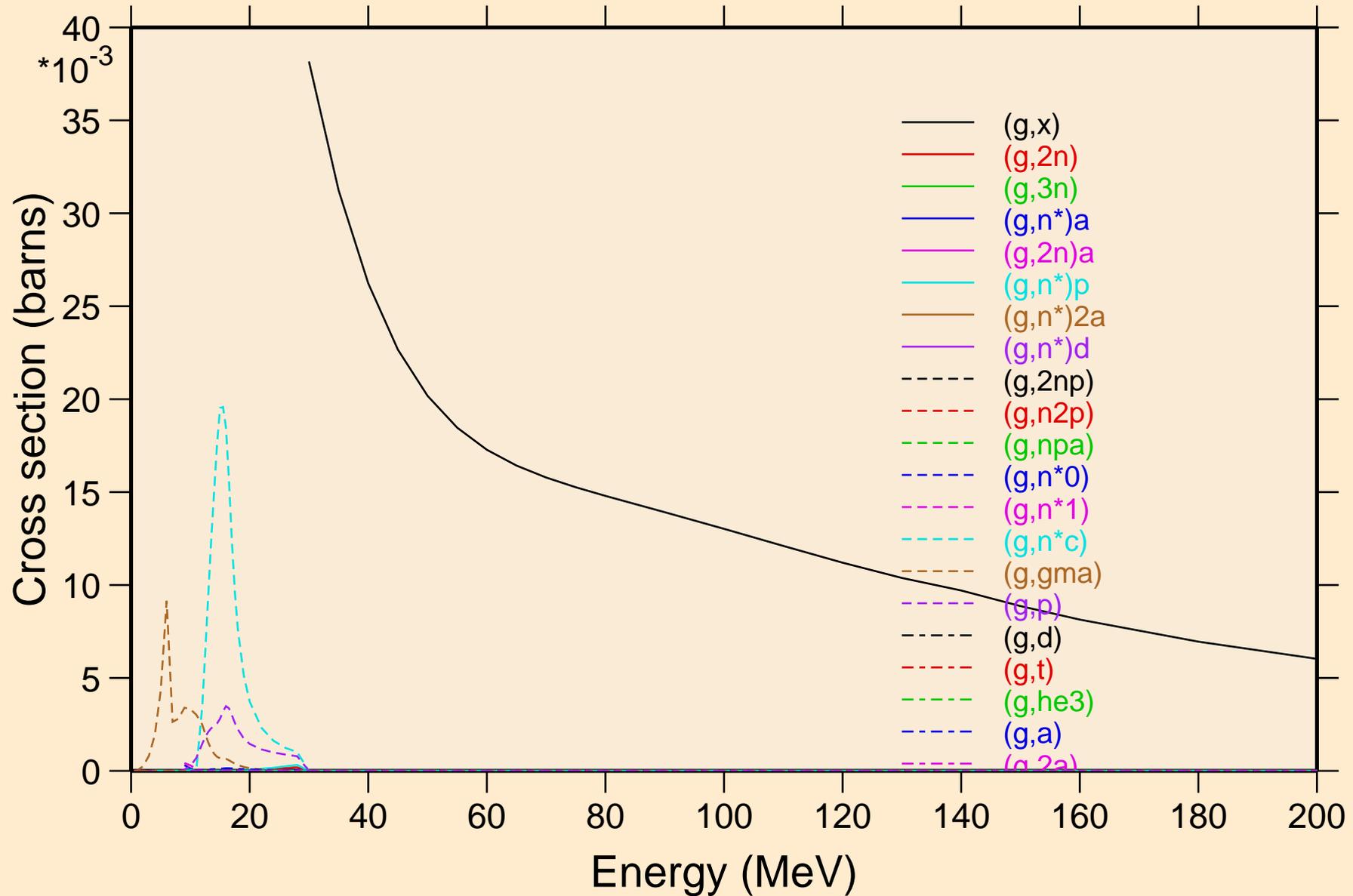
RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
Heating

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
Particle heating contributions

neutrons
photons
protons
deuterons
tritons
he-3
alphas

MeV/collision

Energy (MeV)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
Particle production cross sections
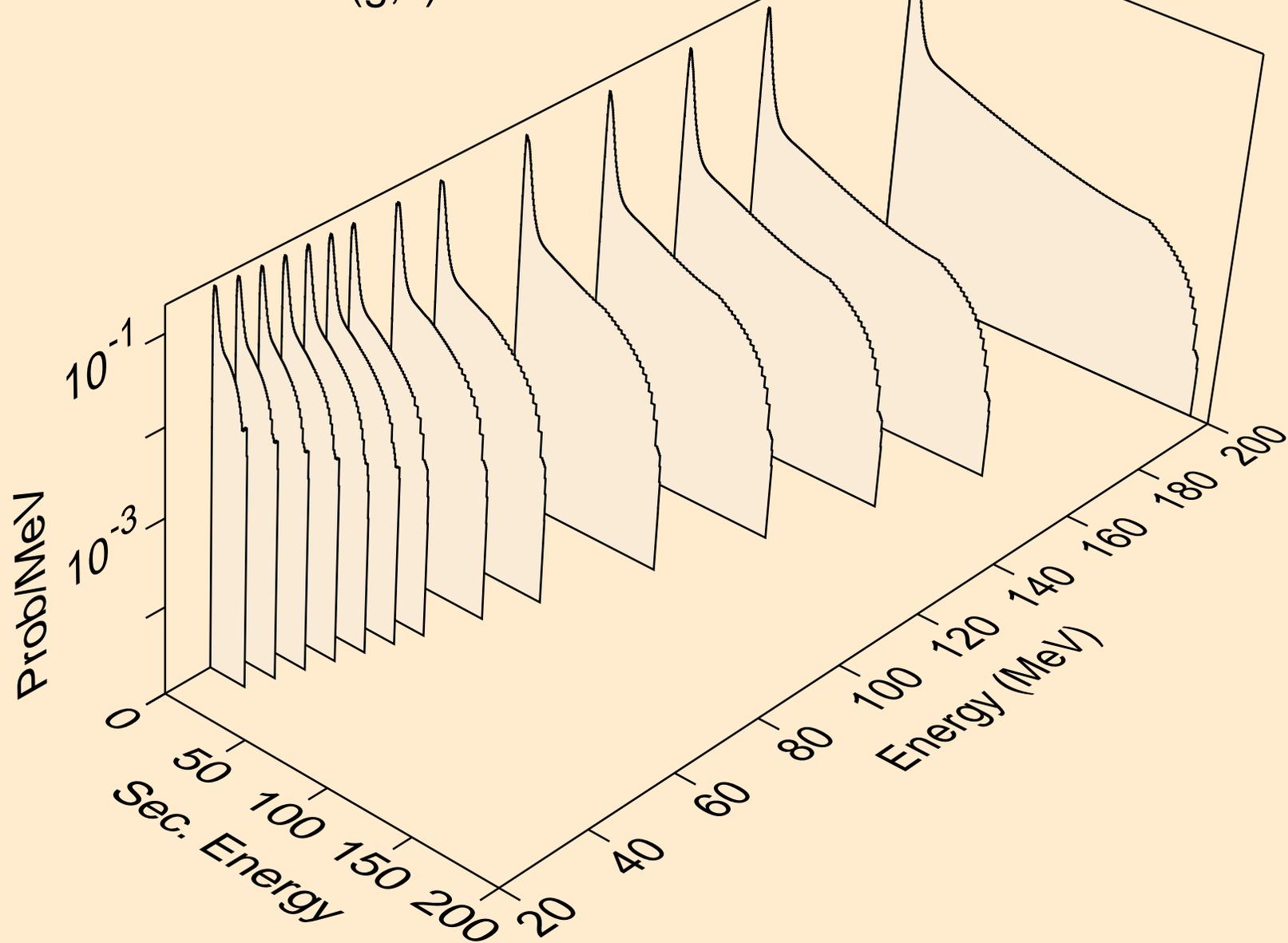
Cross section (barns)
*10⁻³

— neutrons
— photons/5
— protons
— deuterons
— tritons
— he-3
— alphas

Energy (MeV)
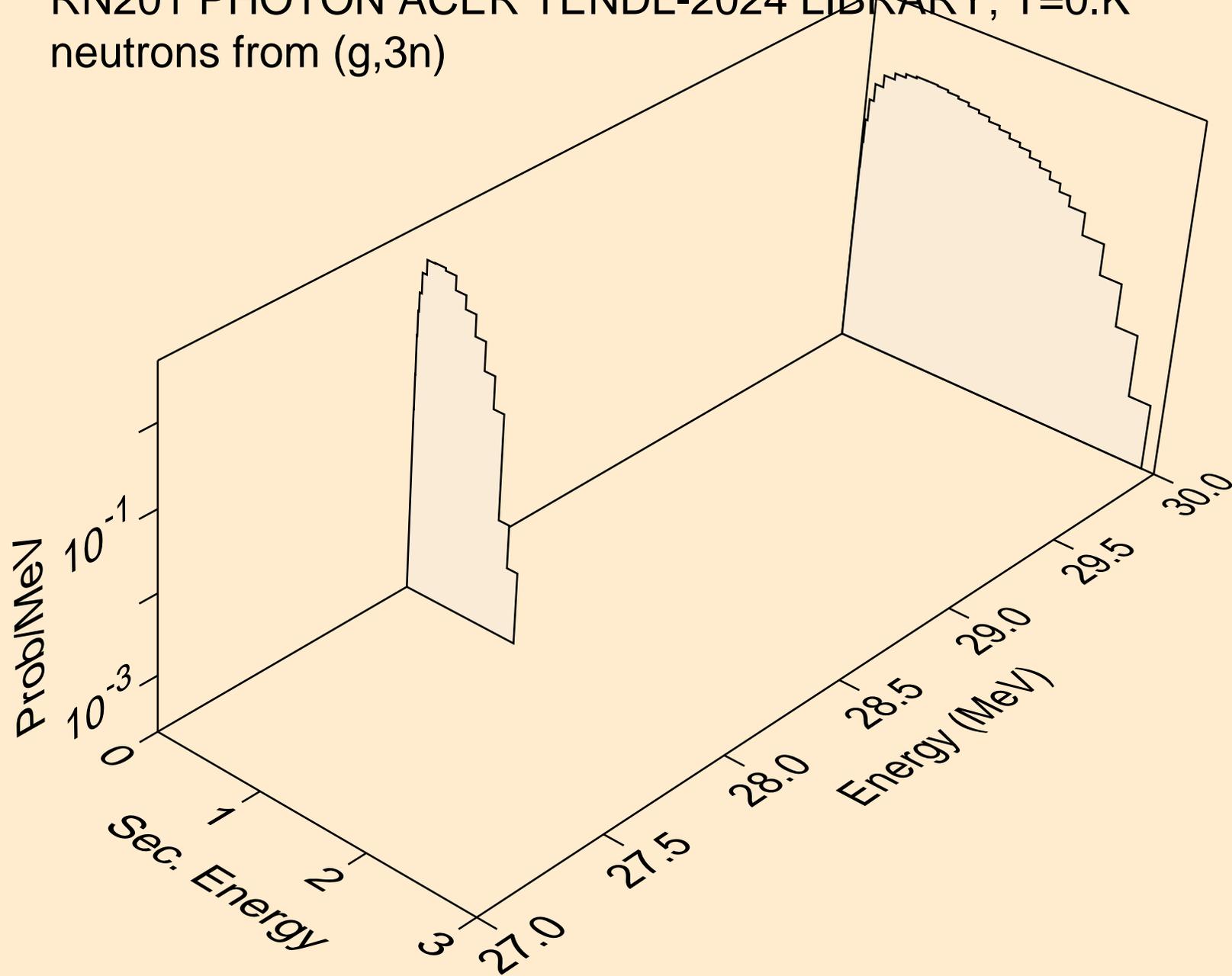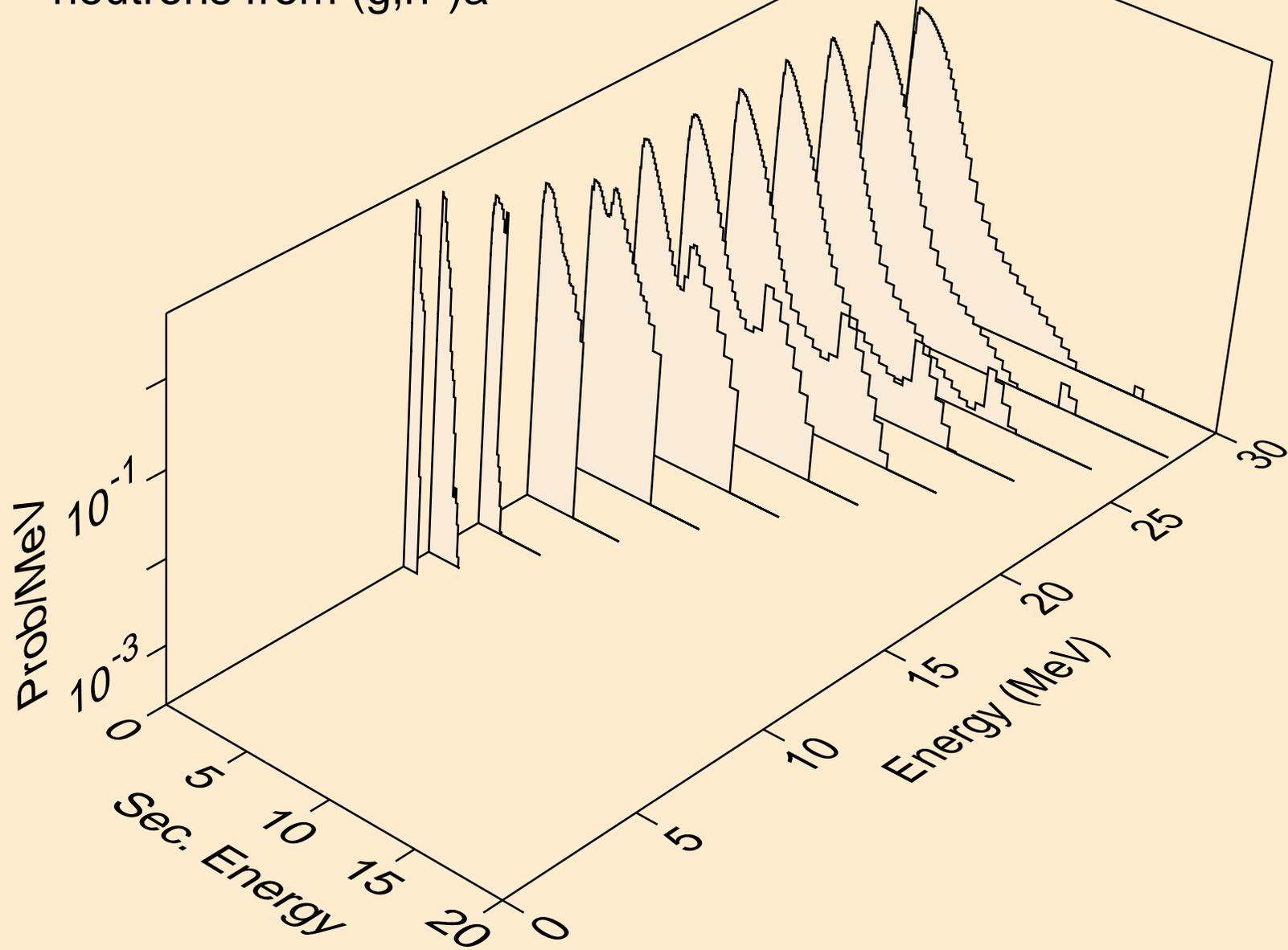
RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,x)

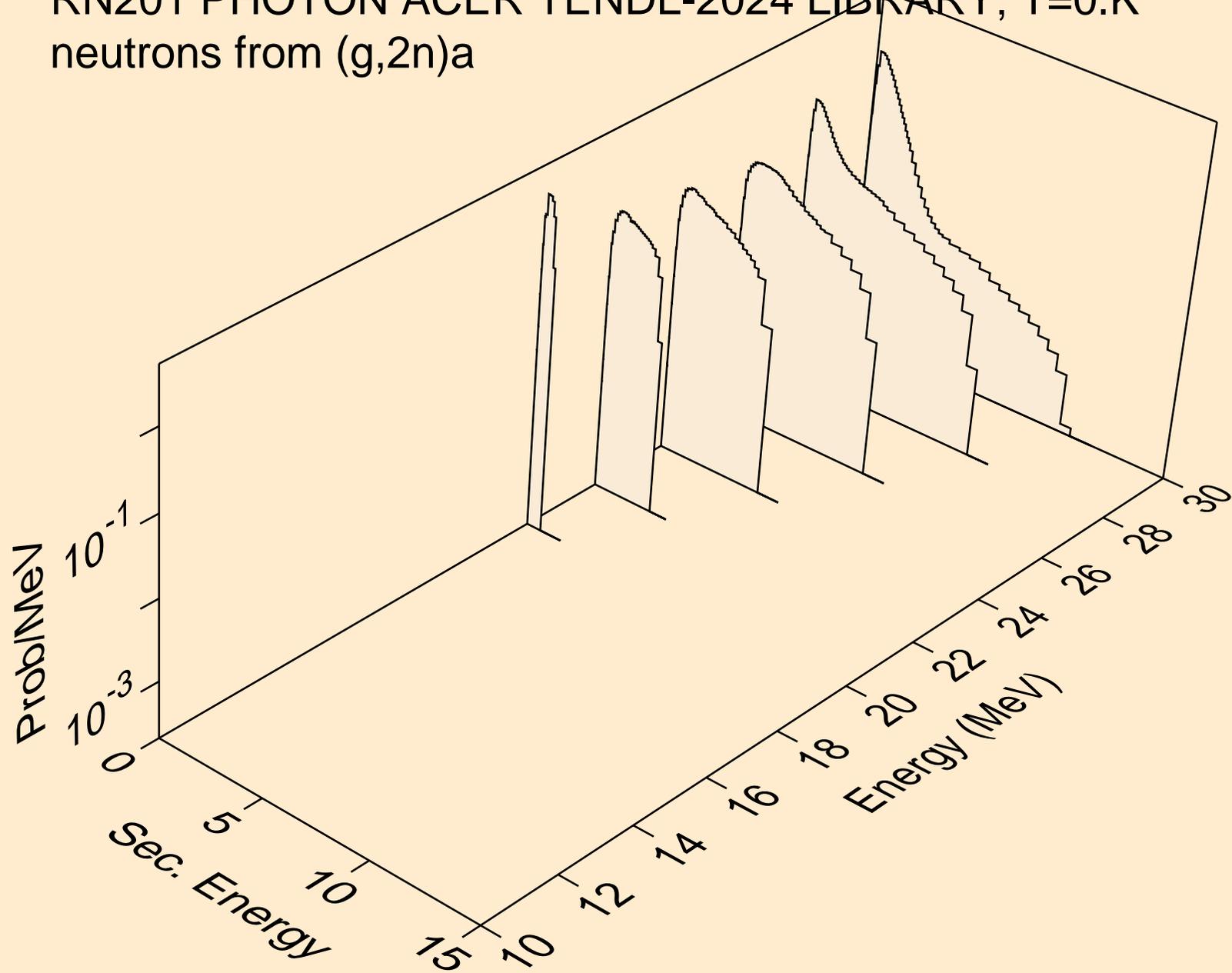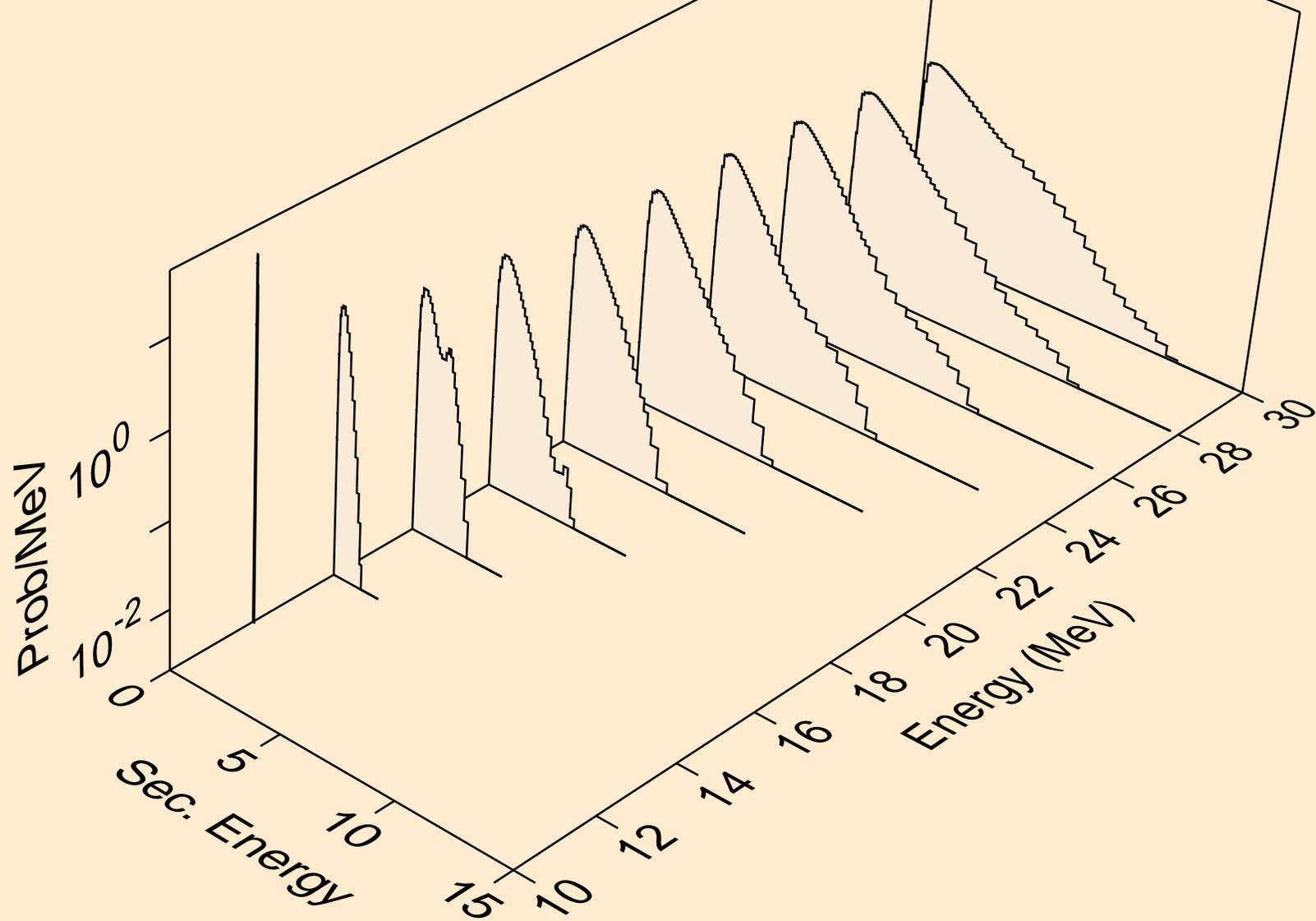RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,2n)

ProbIMeV

10^0

10^{-2}

0

Sec. Energy

5

10

15

18

Energy (MeV)

20

22

24

26

28

30
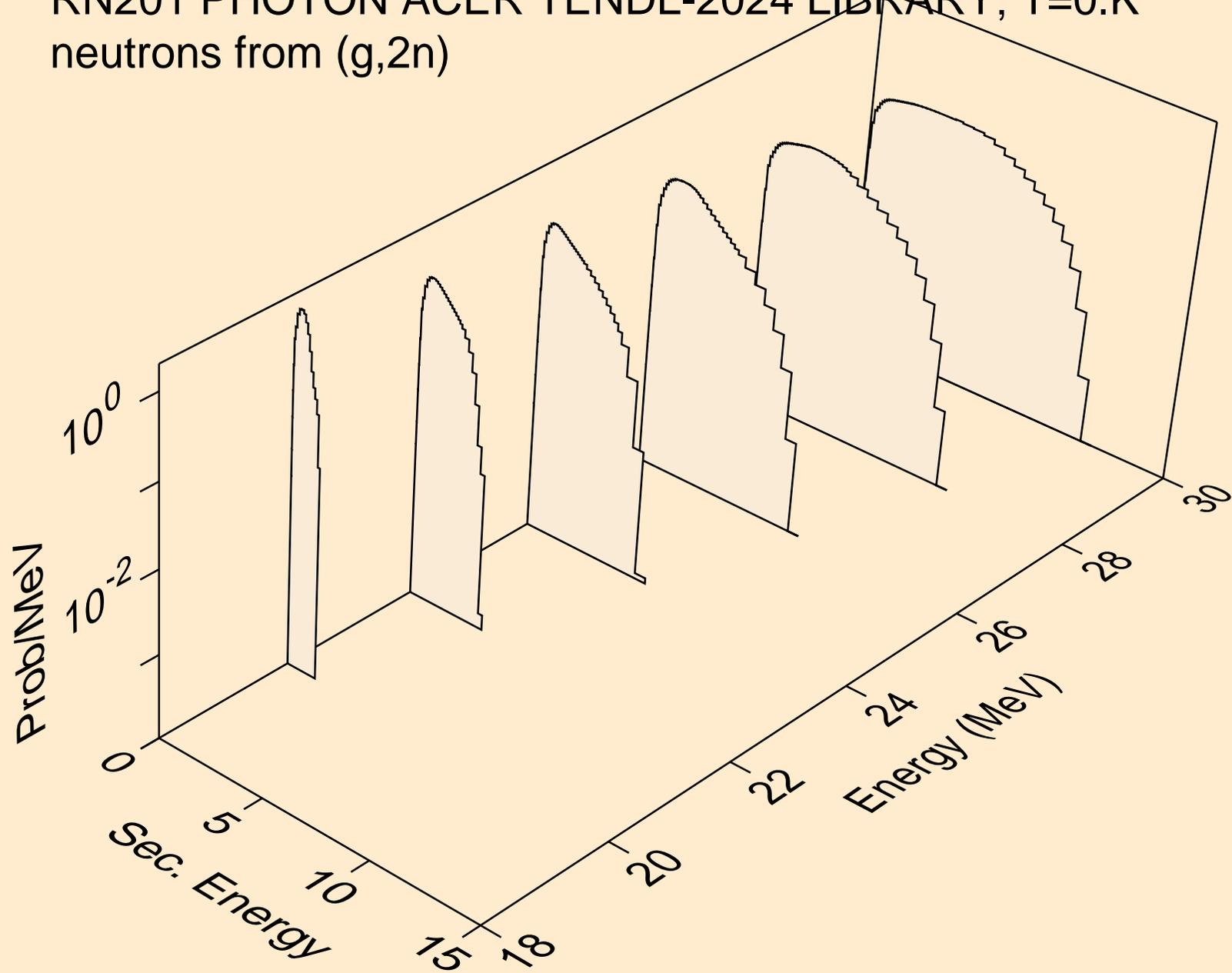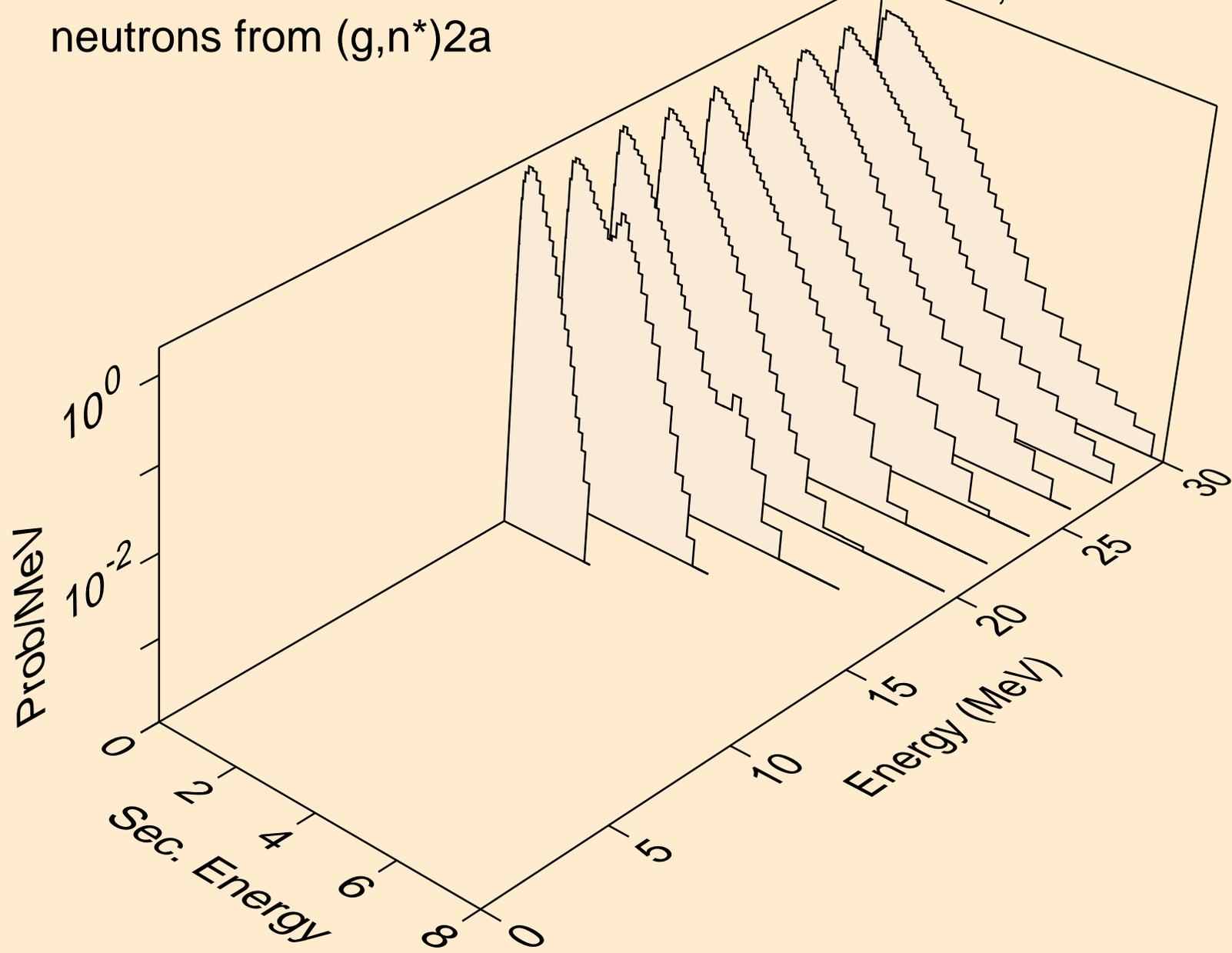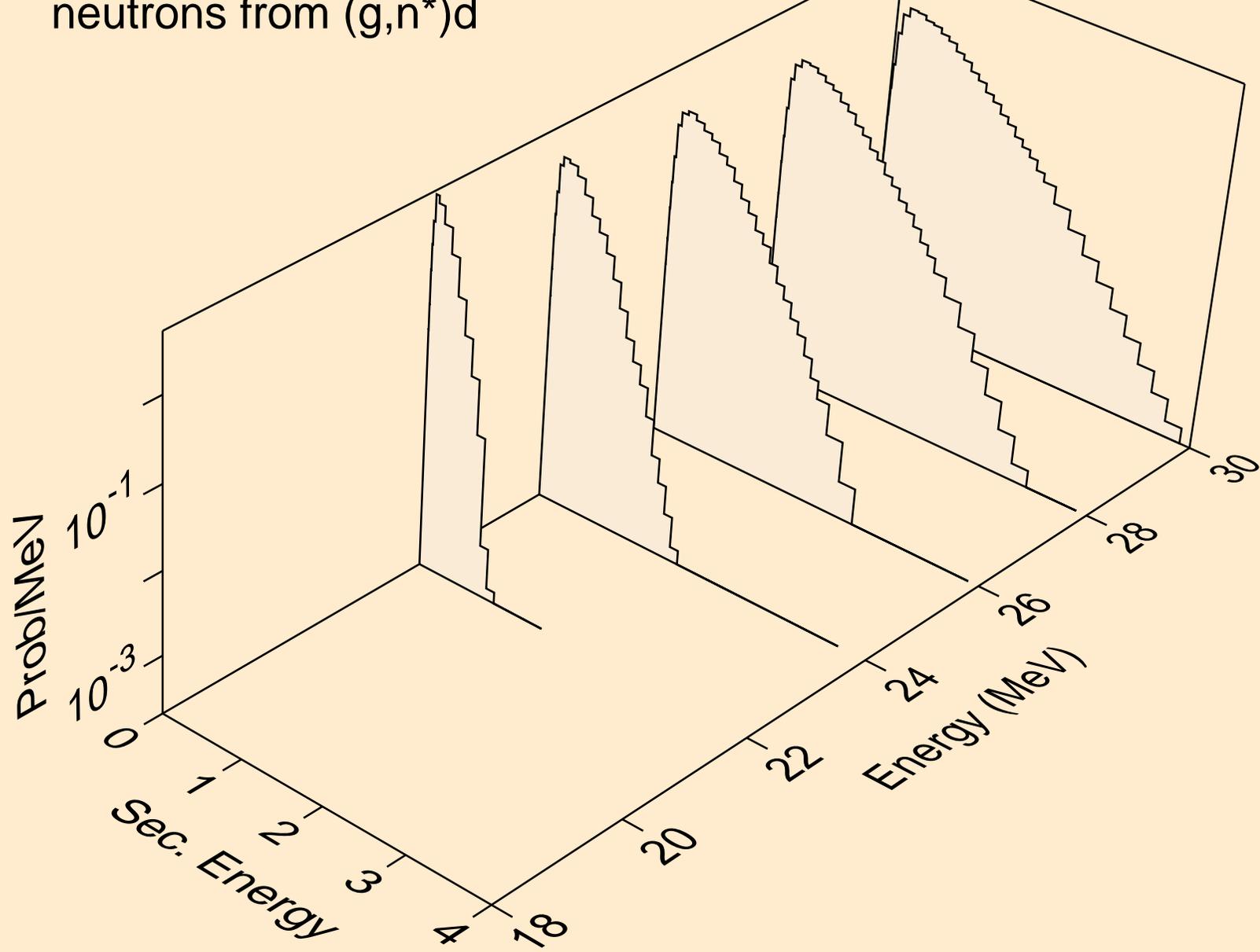
RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,3n)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,n*)a

Prob/MeV

10^{-1}

10^{-3}

Sec. Energy

Energy (MeV)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,2n)a

Prob/MeV

10^{-1}

10^{-3}

0

Sec. Energy

5

10

15

Energy (MeV)

10 12 14 16 18 20 22 24 26 28 30

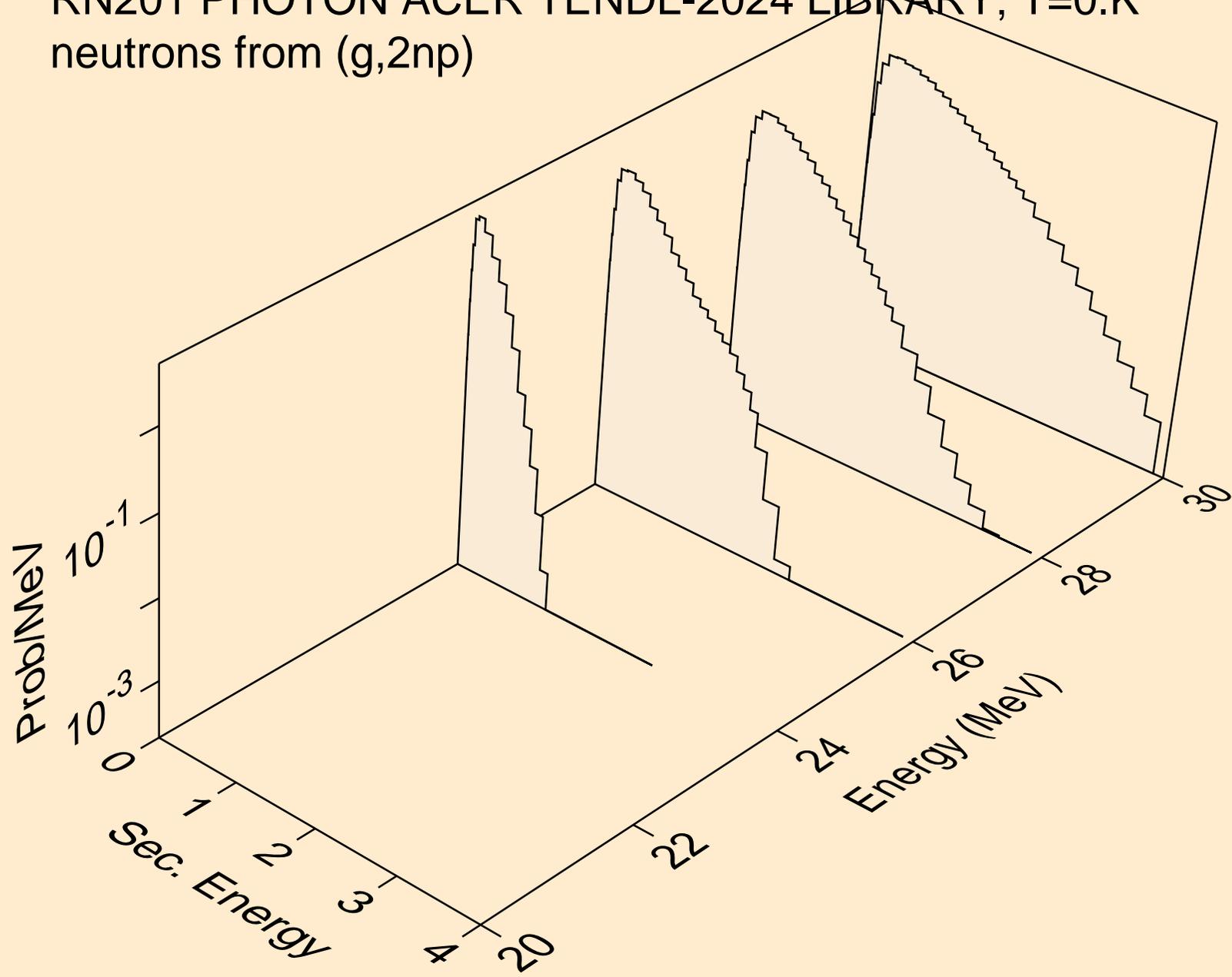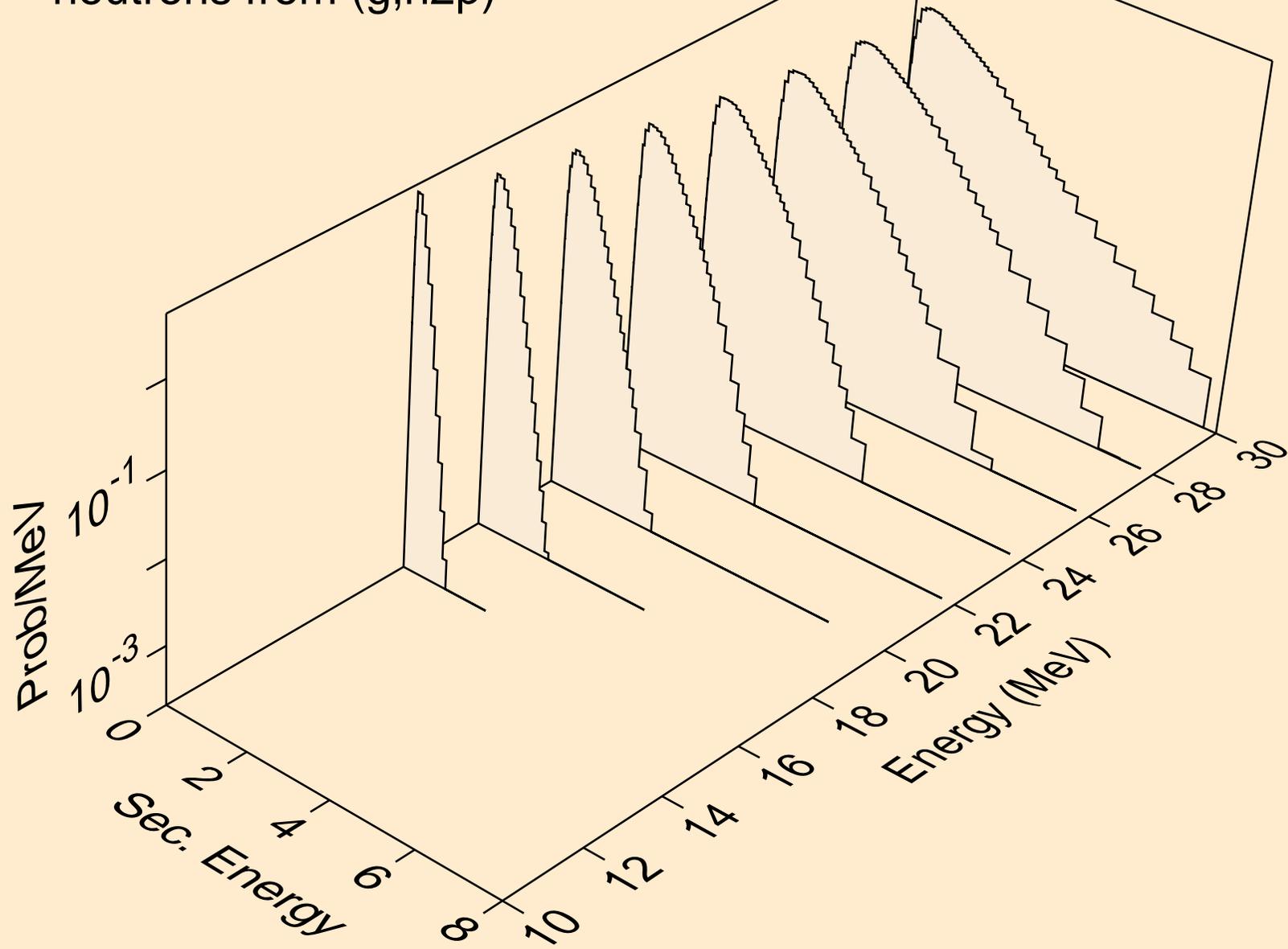RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,n*)p

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,n*)2a

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
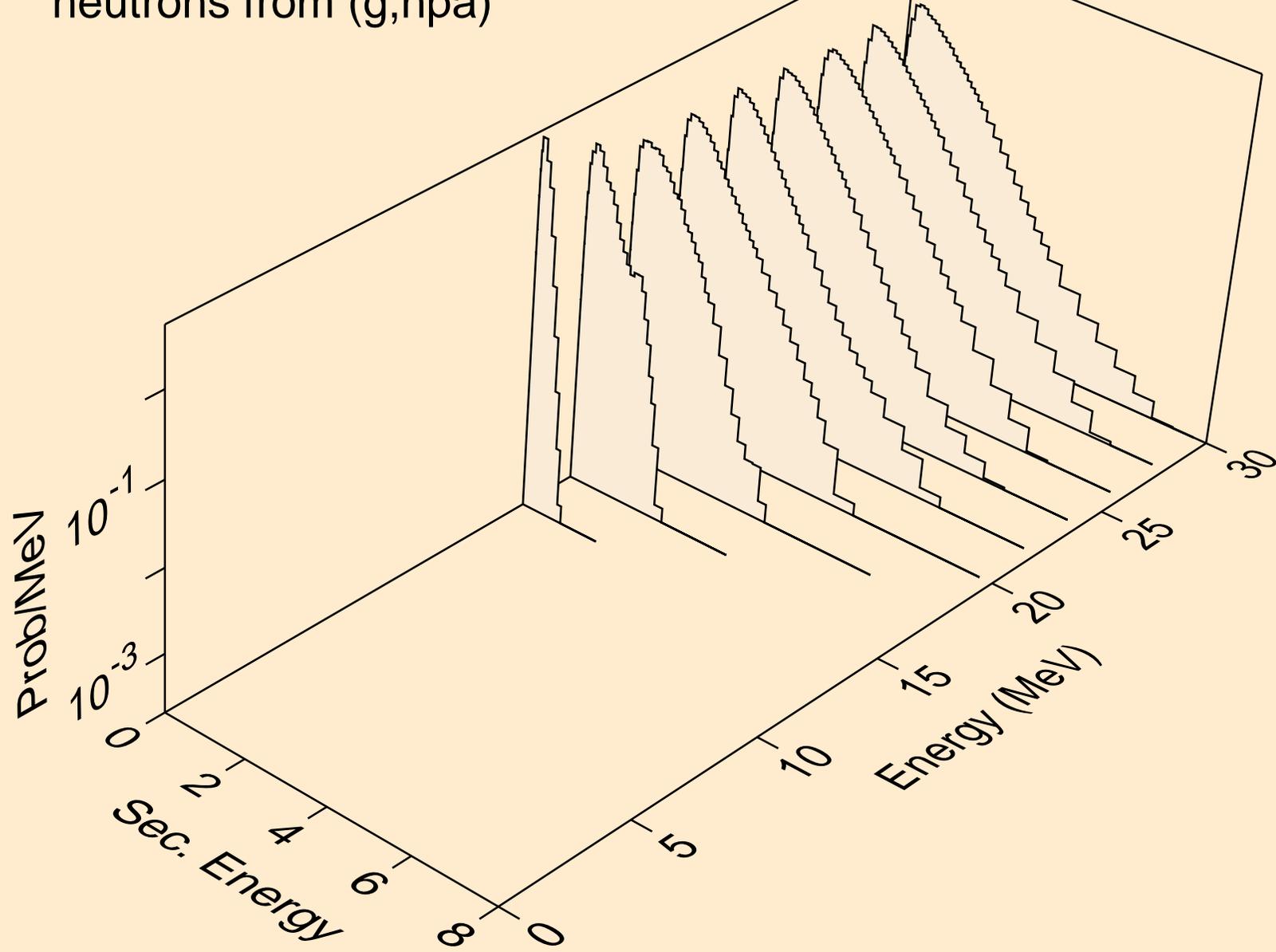neutrons from (g,n*)d

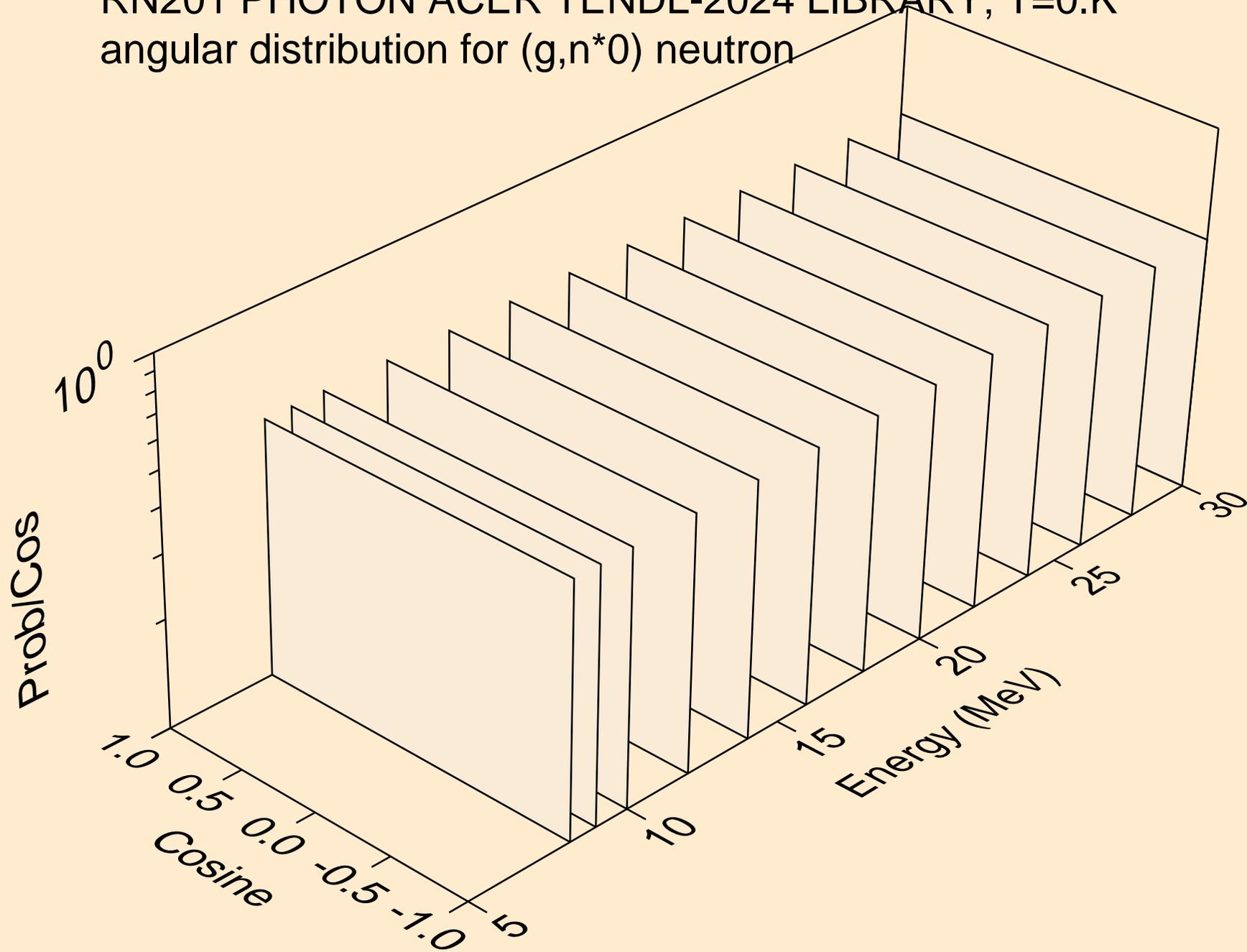RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,2np)

Prob/MeV

10^{-1}

10^{-3}

0

Sec. Energy

1

2

3

4

Energy (MeV)

20

22

24

26

28

30

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
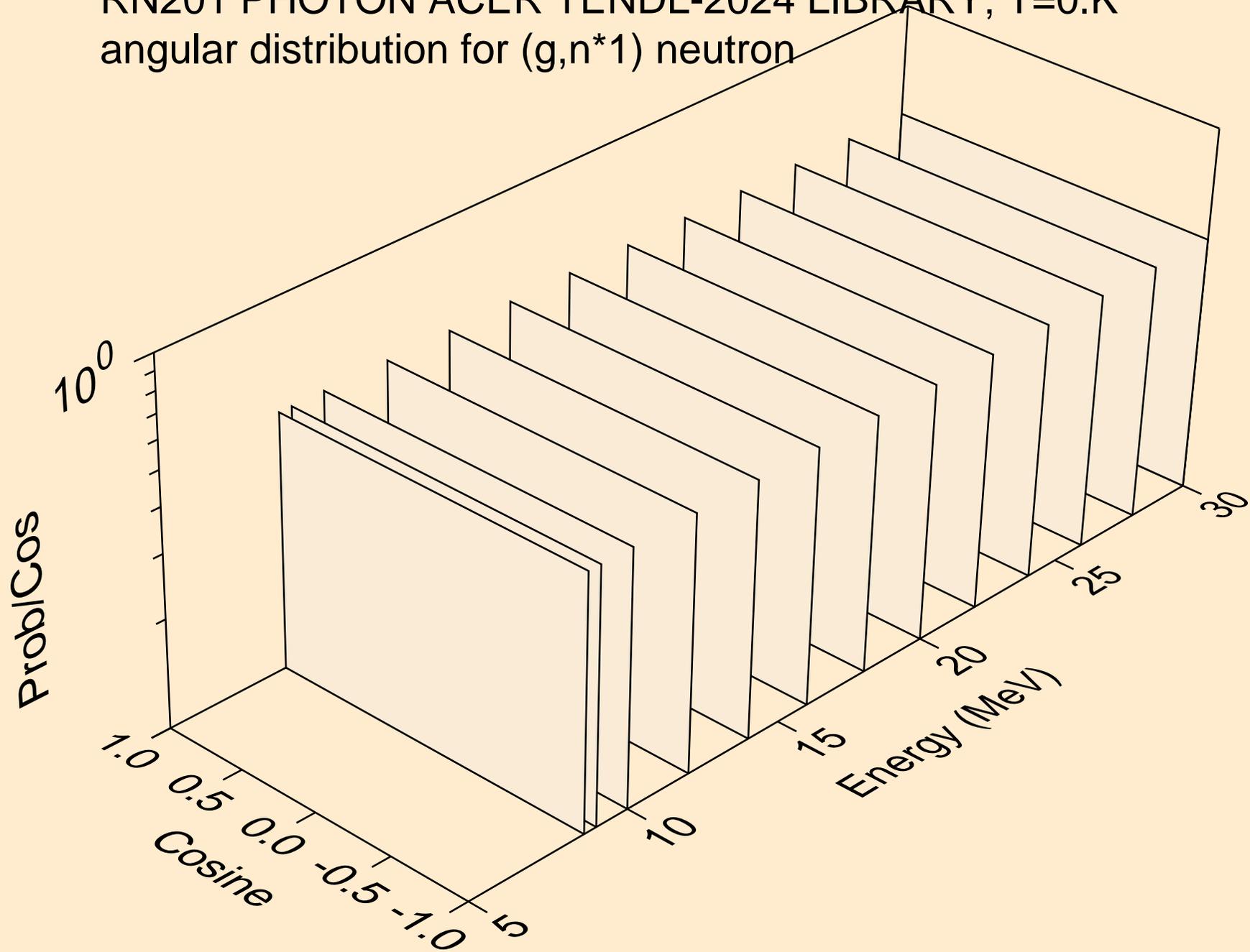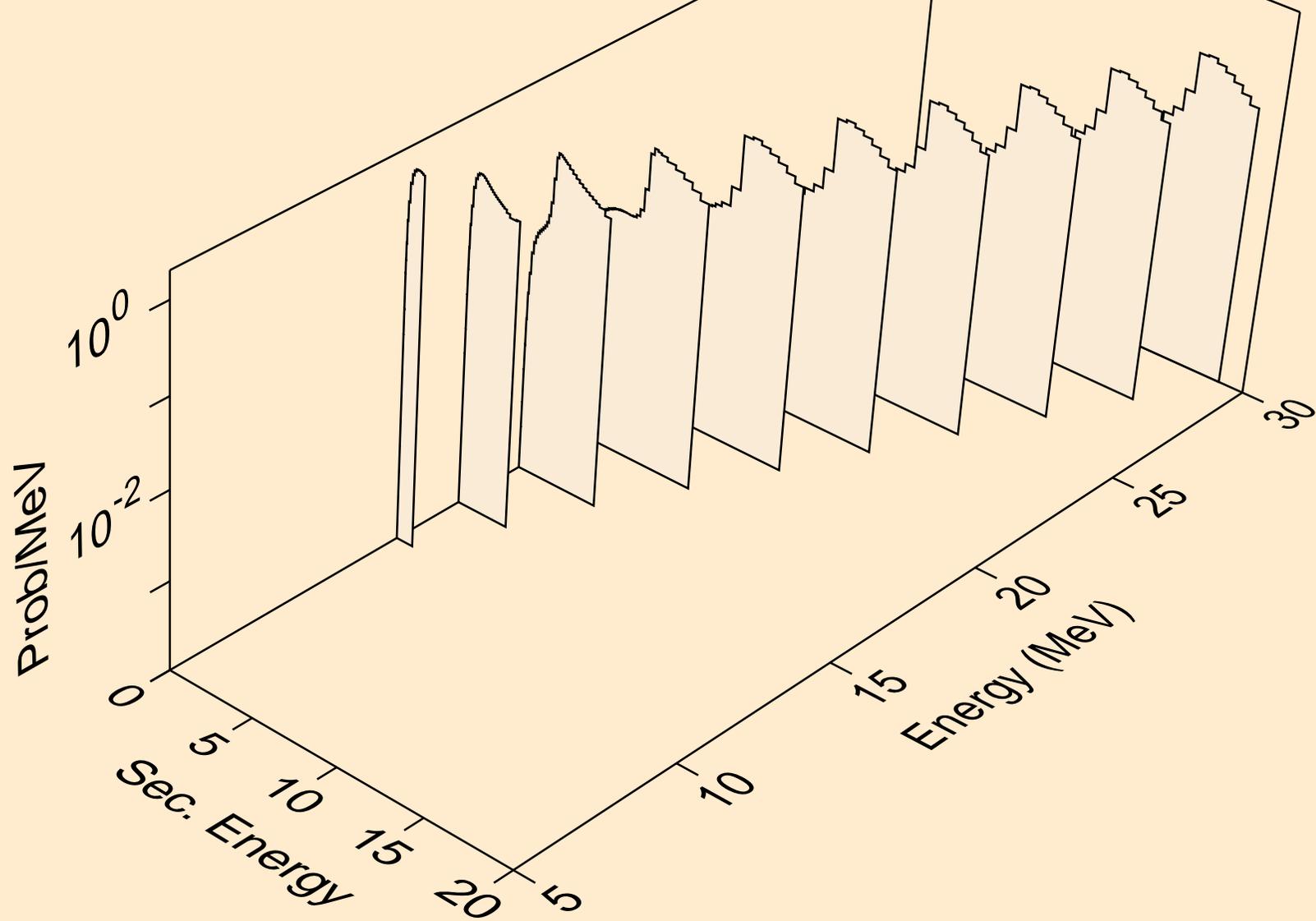neutrons from (g,n2p)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (g,npa)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for (g,n*0) neutron
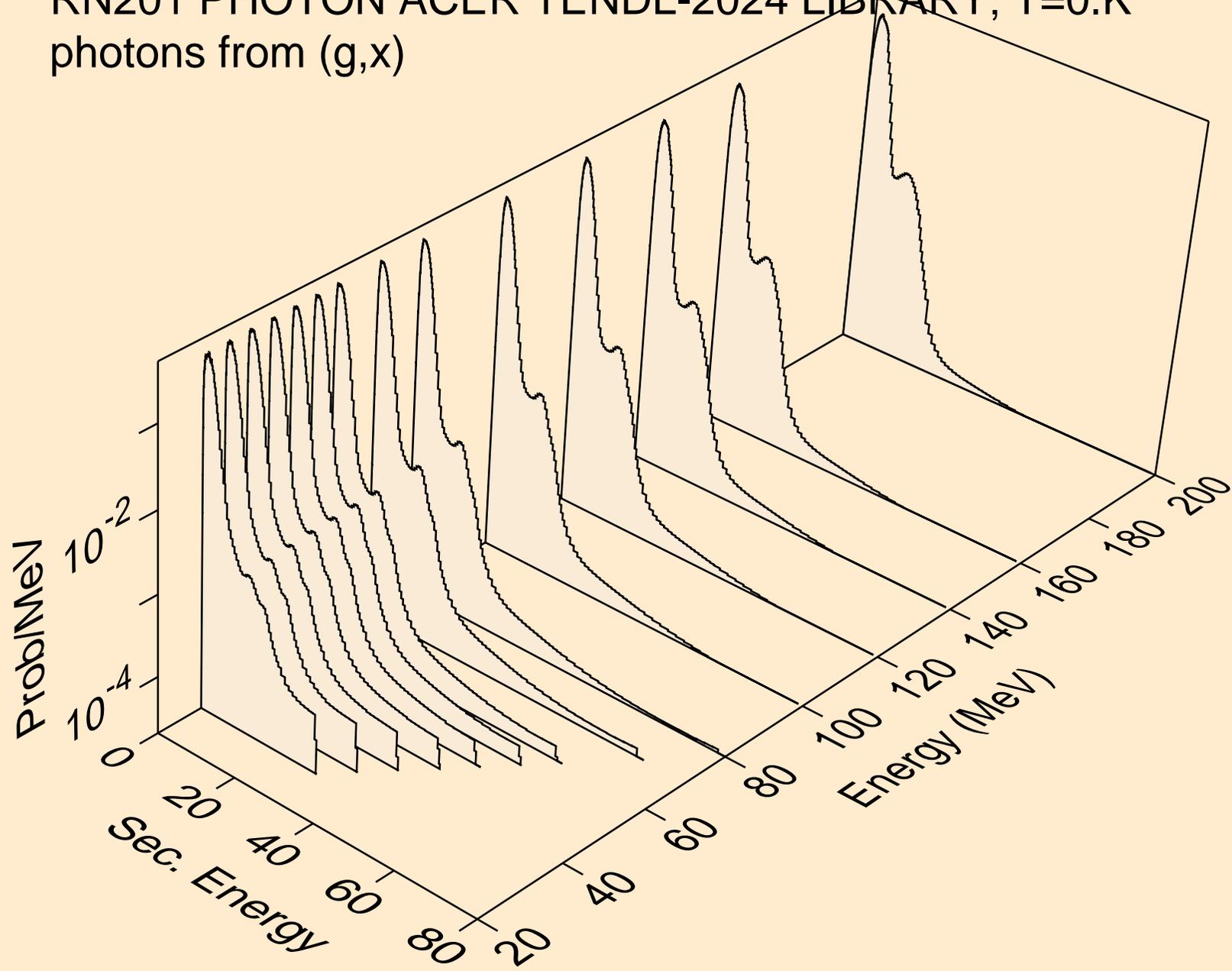
ProbICos

Cosine

Energy (MeV)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for (g,n*1) neutron
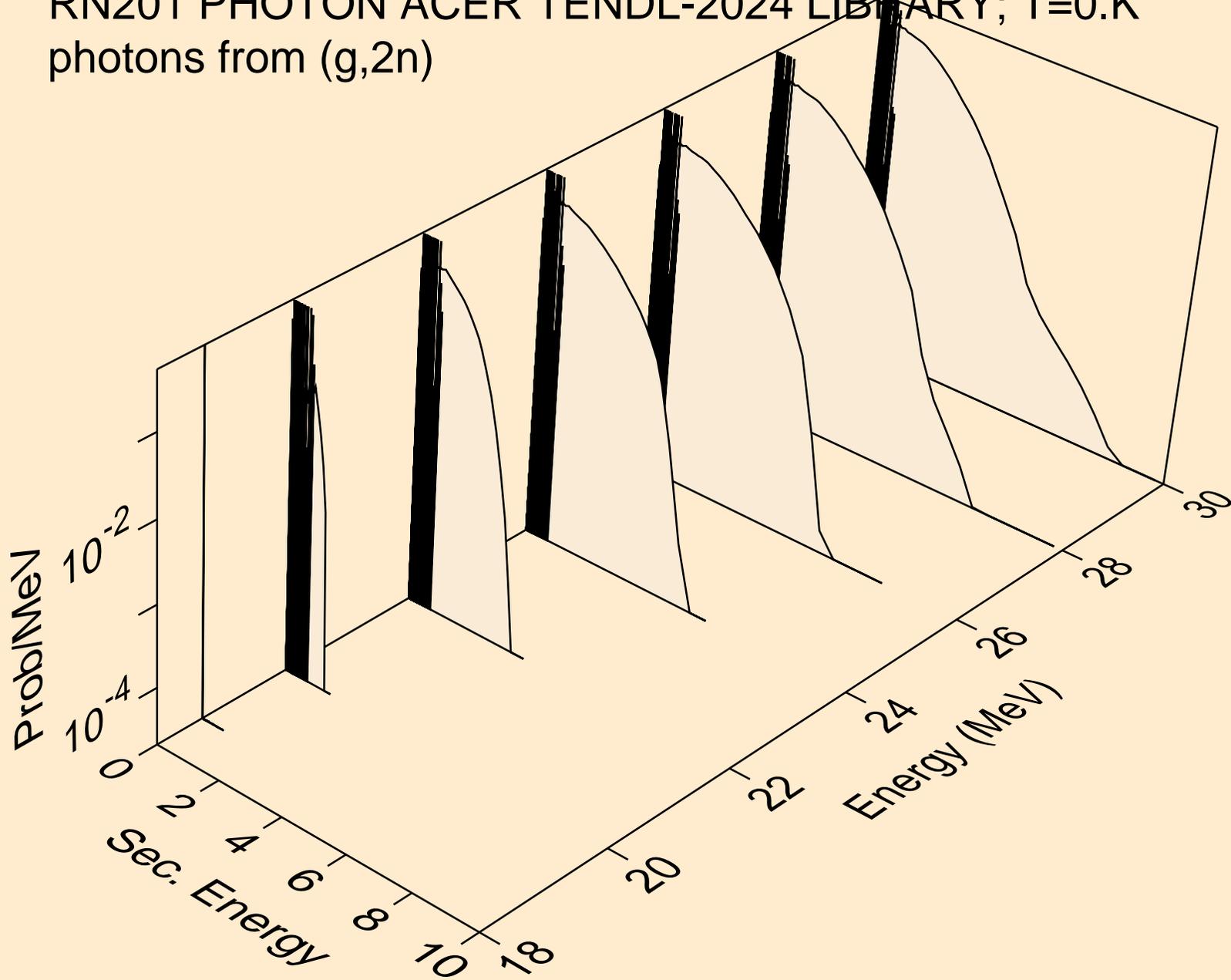
RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
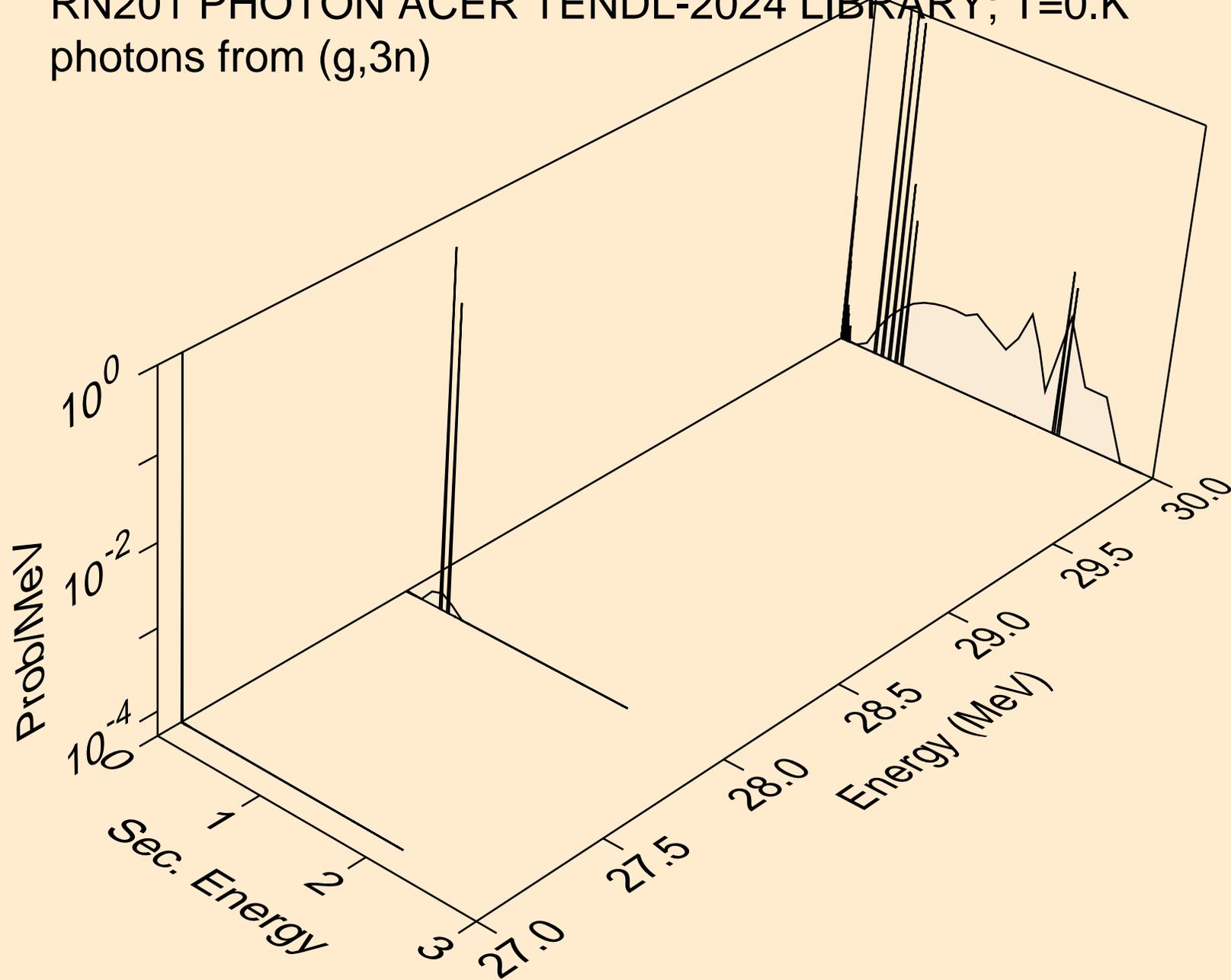neutrons from (g,n*c)

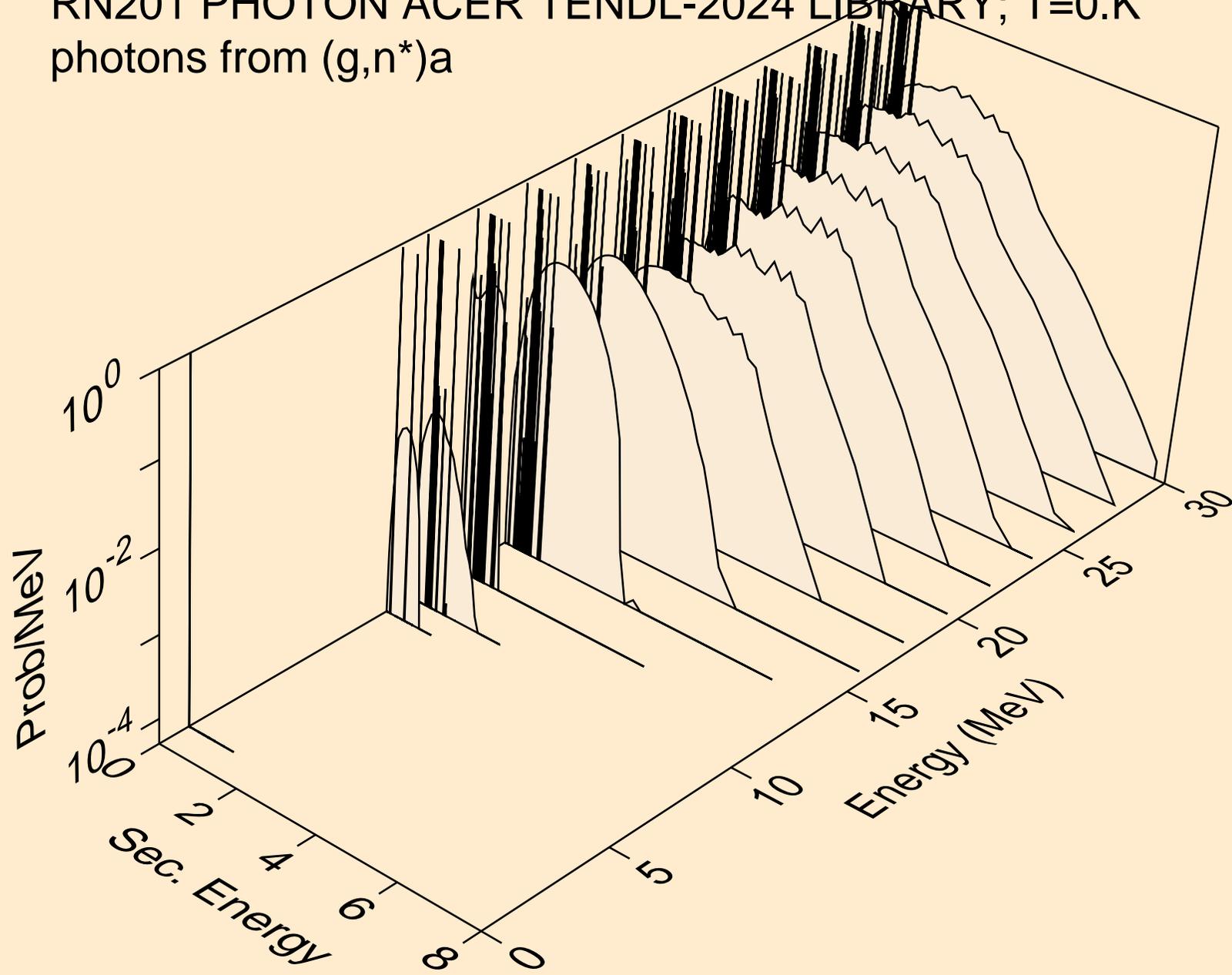RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,x)

Prob/MeV

10^{-2}

10^{-4}

0

Sec. Energy

20 40 60 80

20 40 60 80 100 120 140 160 180 200

Energy (MeV)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,2n)

Prob/MeV
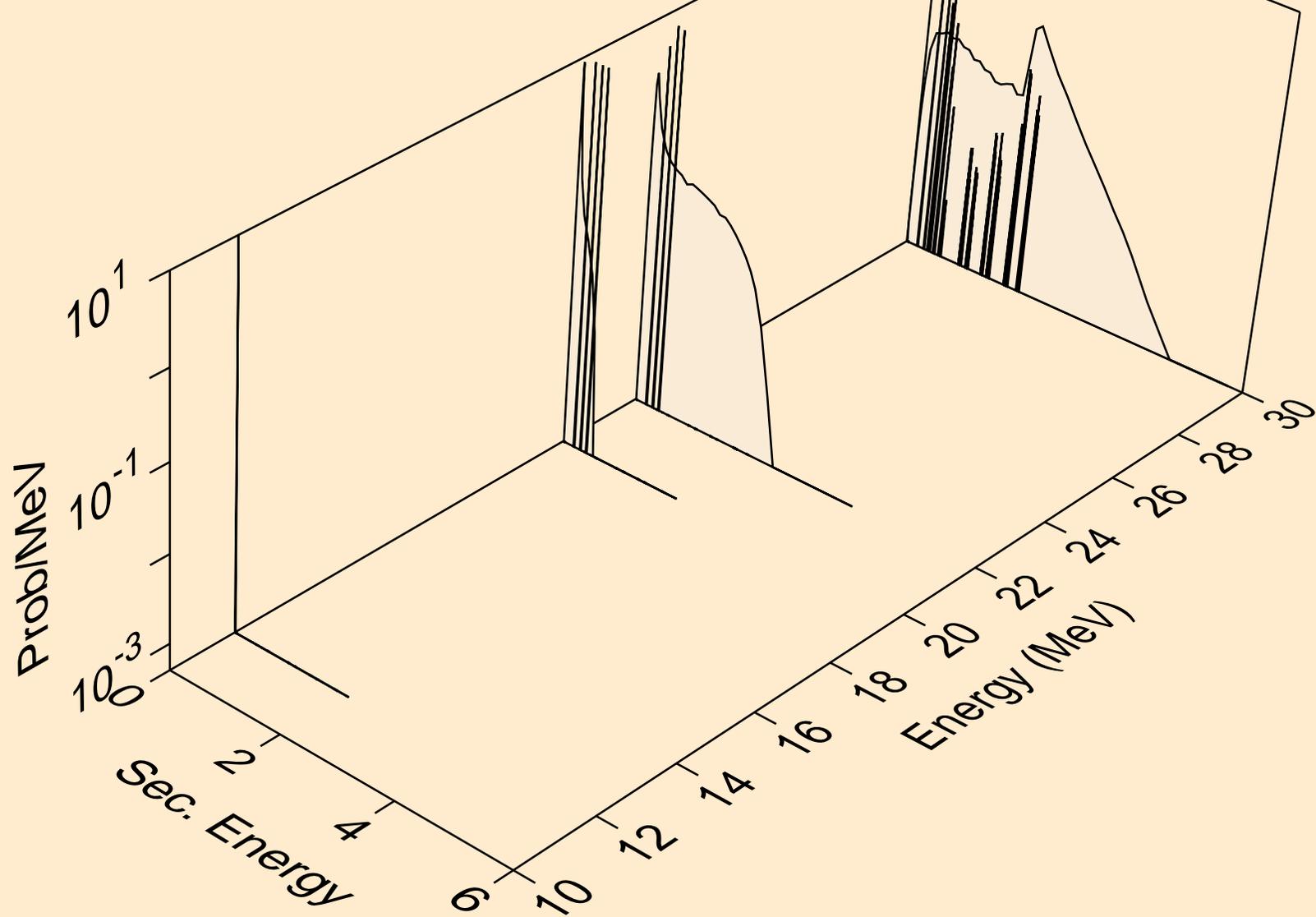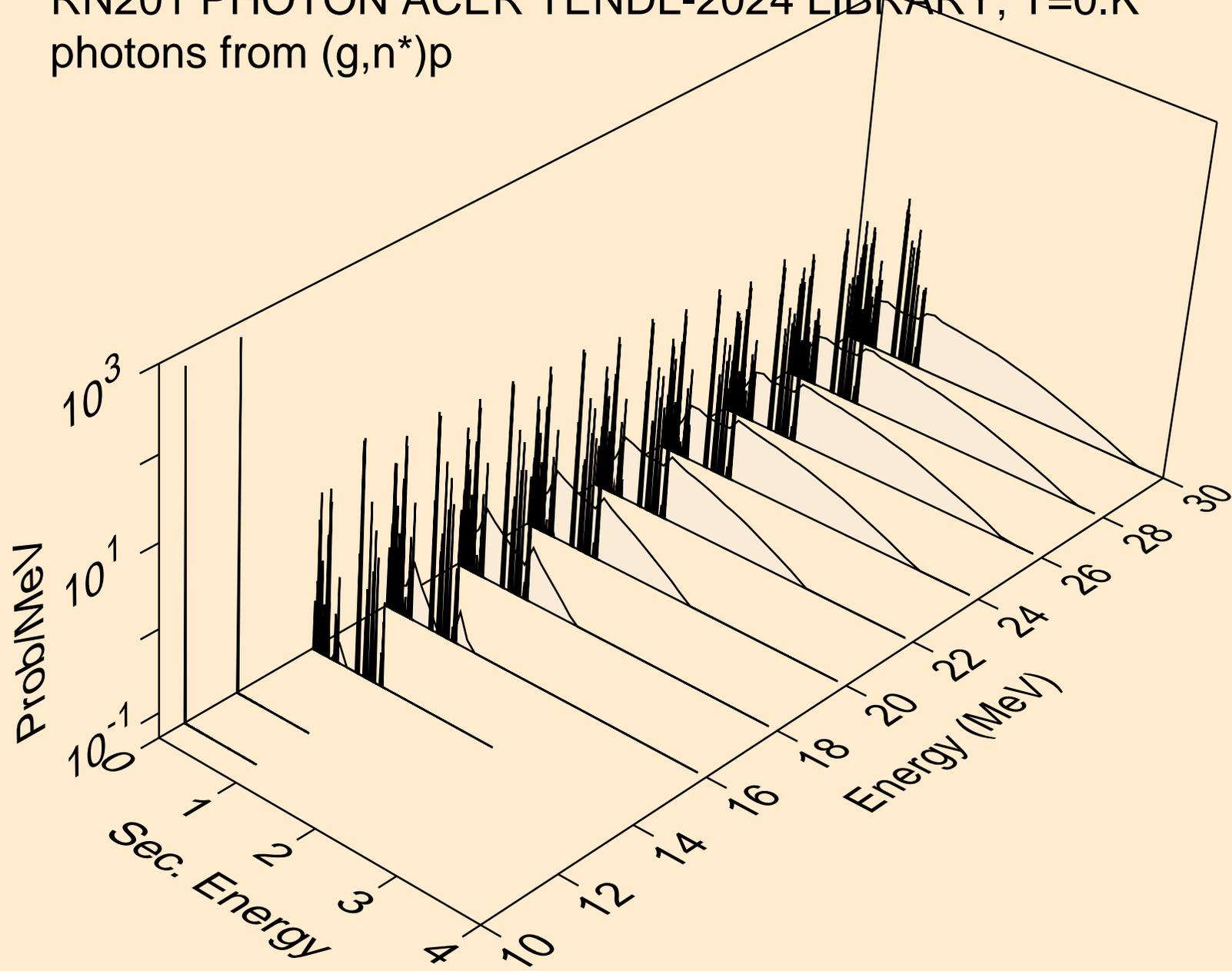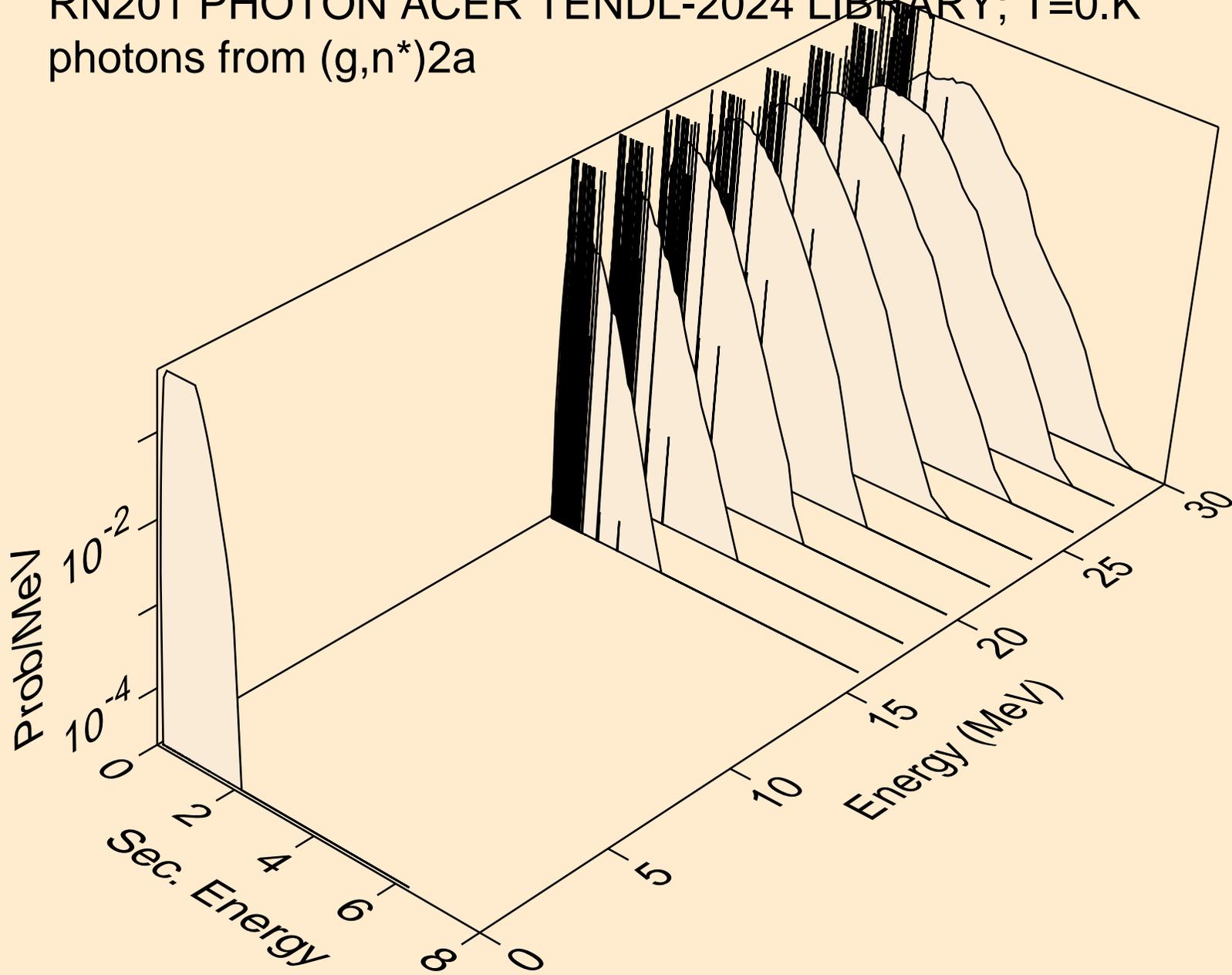
10^{-2}

10^{-4}

Sec. Energy

Energy (MeV)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,3n)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,n*)a

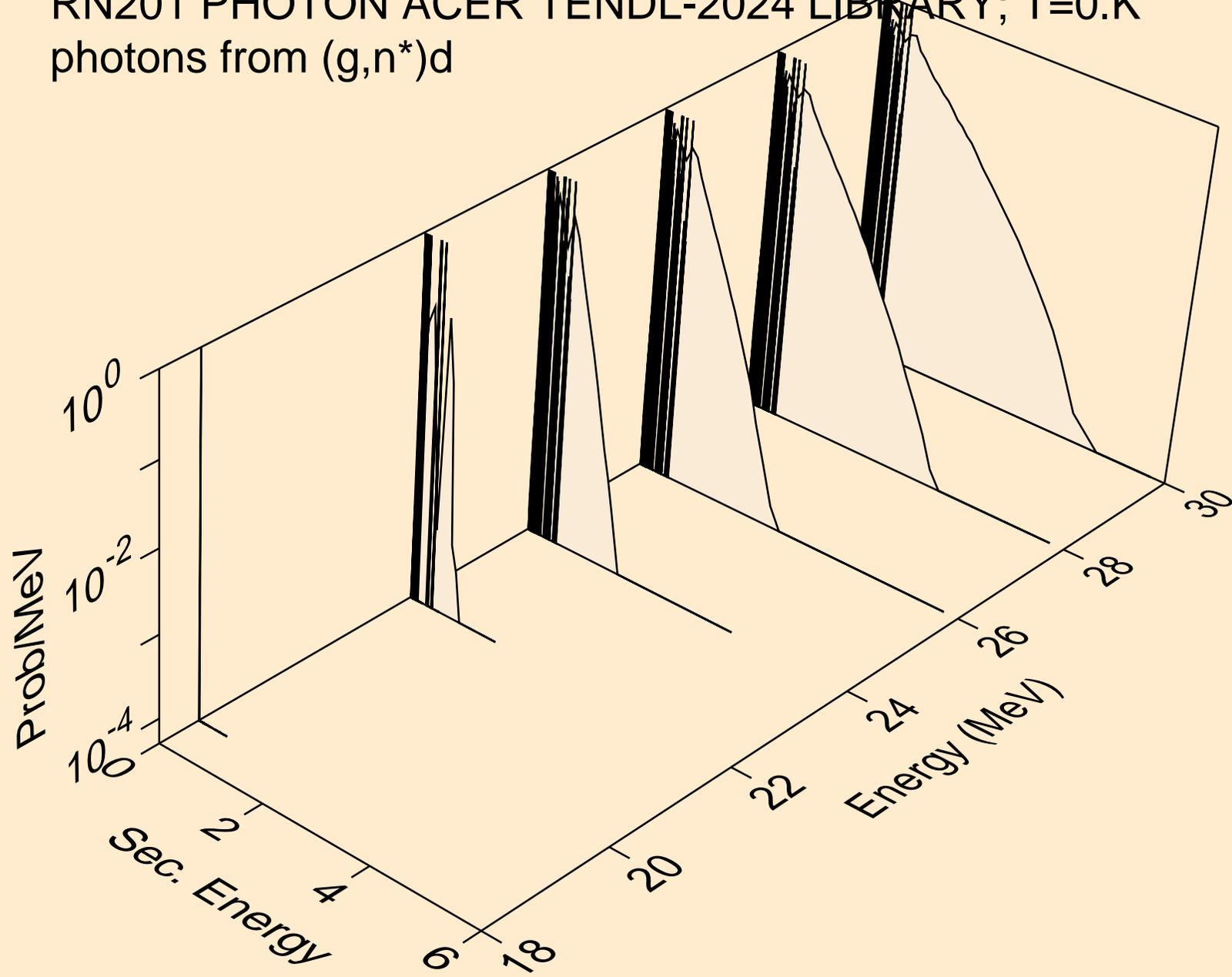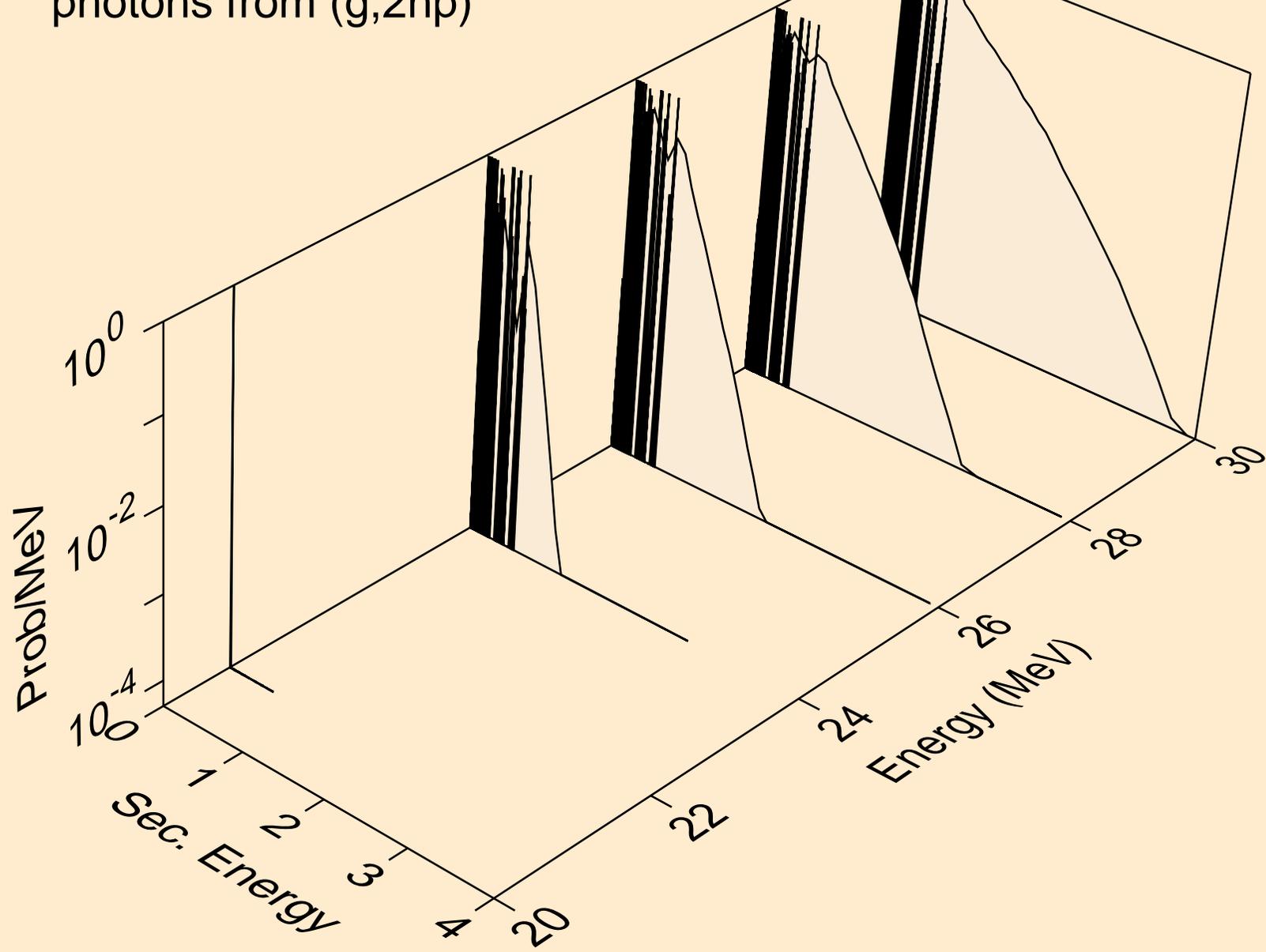RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,2n)a

ProbMeV

10^1

10^{-1}

10^{-3}

10^0

Sec. Energy

2

4

6

Energy (MeV)

10 12 14 16 18 20 22 24 26 28 30

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,n*)p

Prob/MeV

10^3

10^1

10^{-1}

10^0

Sec. Energy

1

2

3

4

Energy (MeV)

10 12 14 16 18 20 22 24 26 28 30

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,n*)2a

Prob/MeV

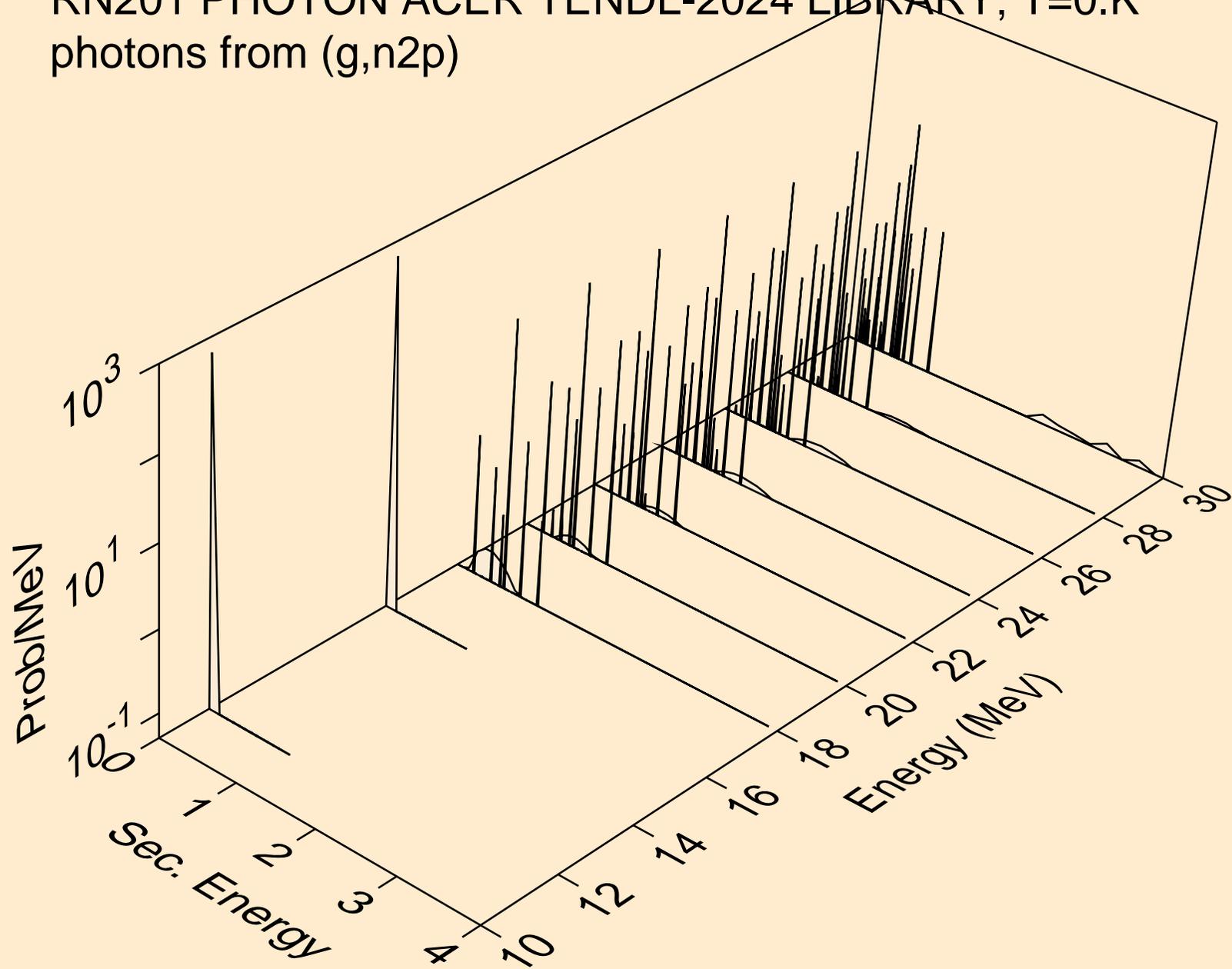10^{-2}

10^{-4}

Sec. Energy

Energy (MeV)

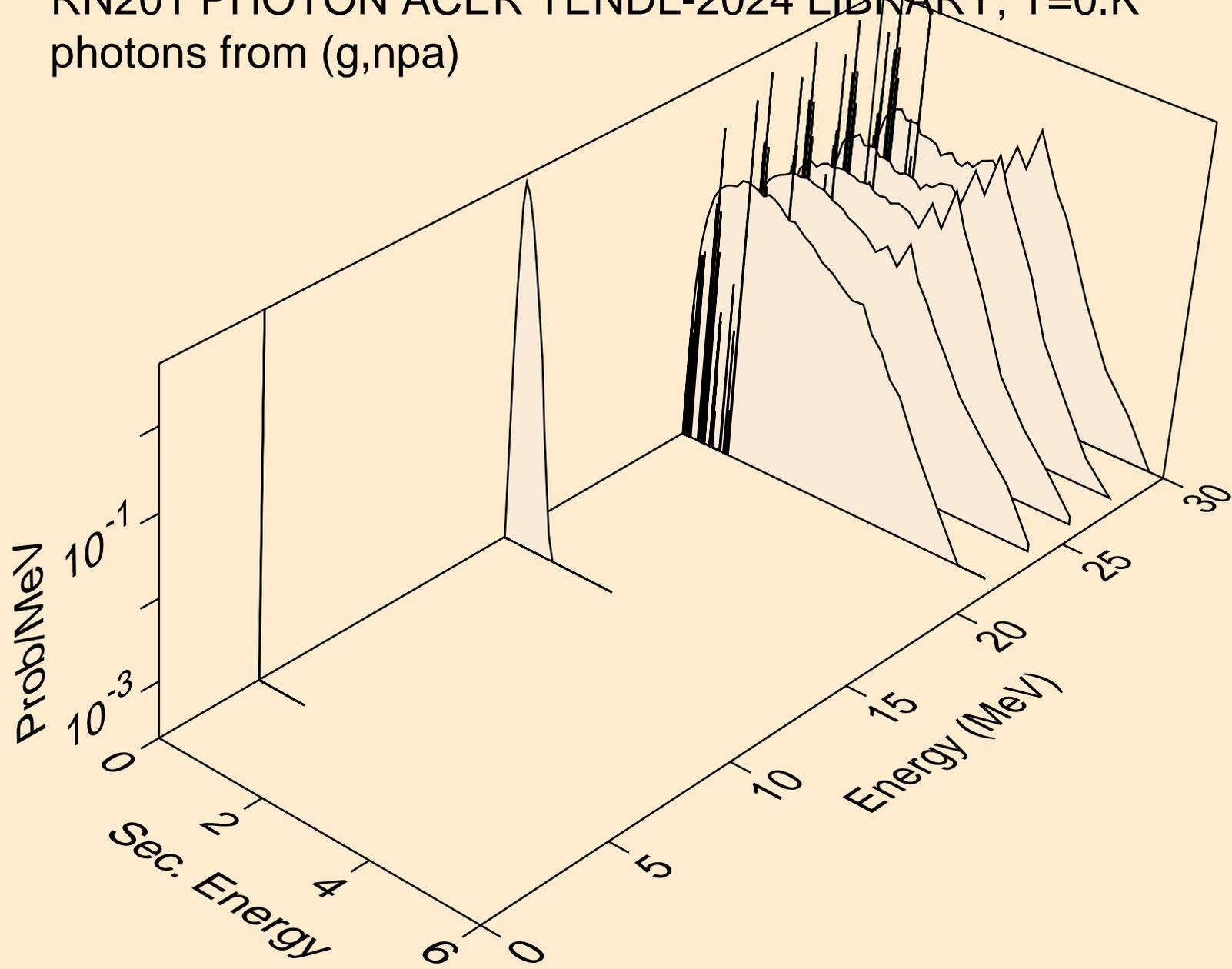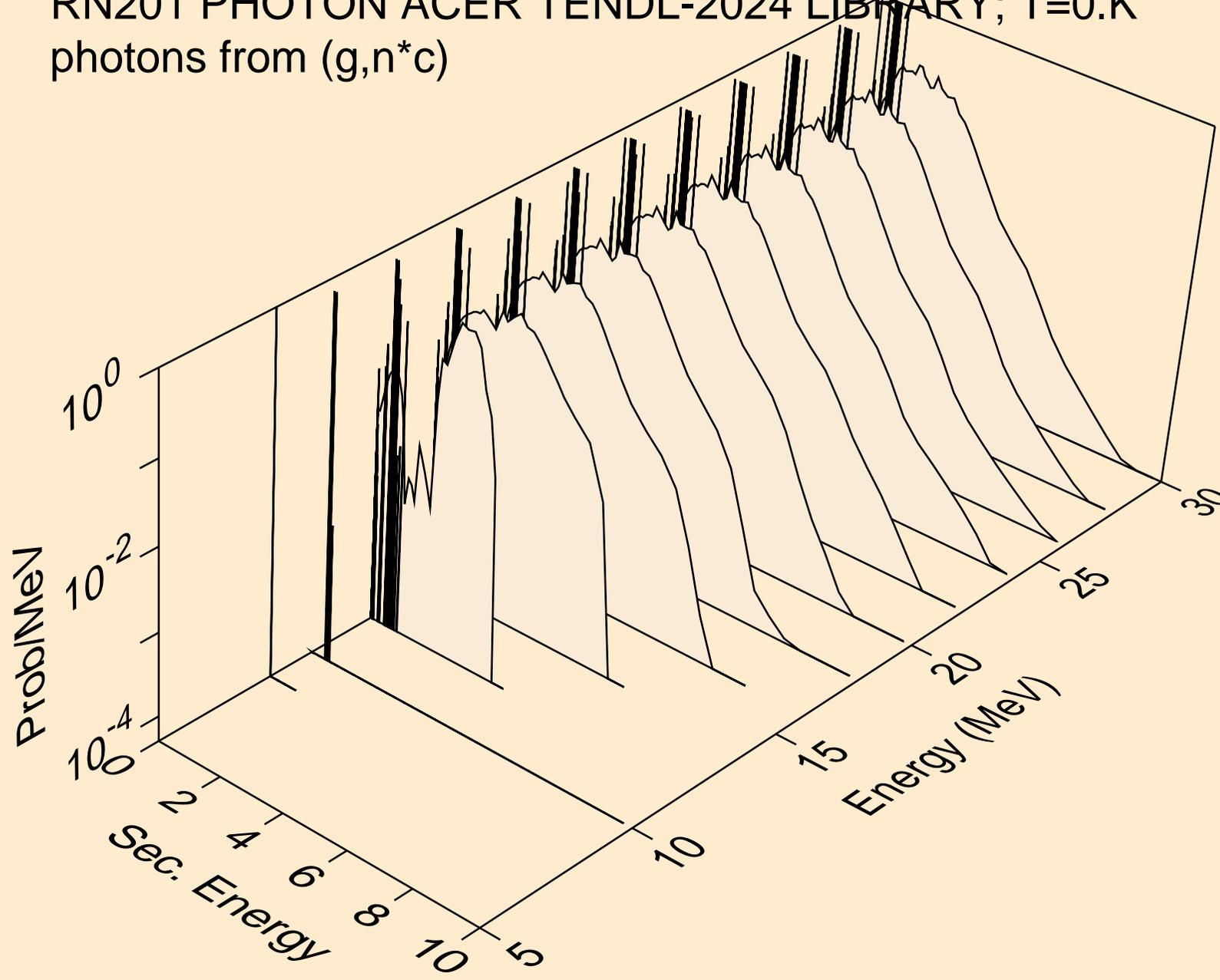RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,n*)d

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,2np)

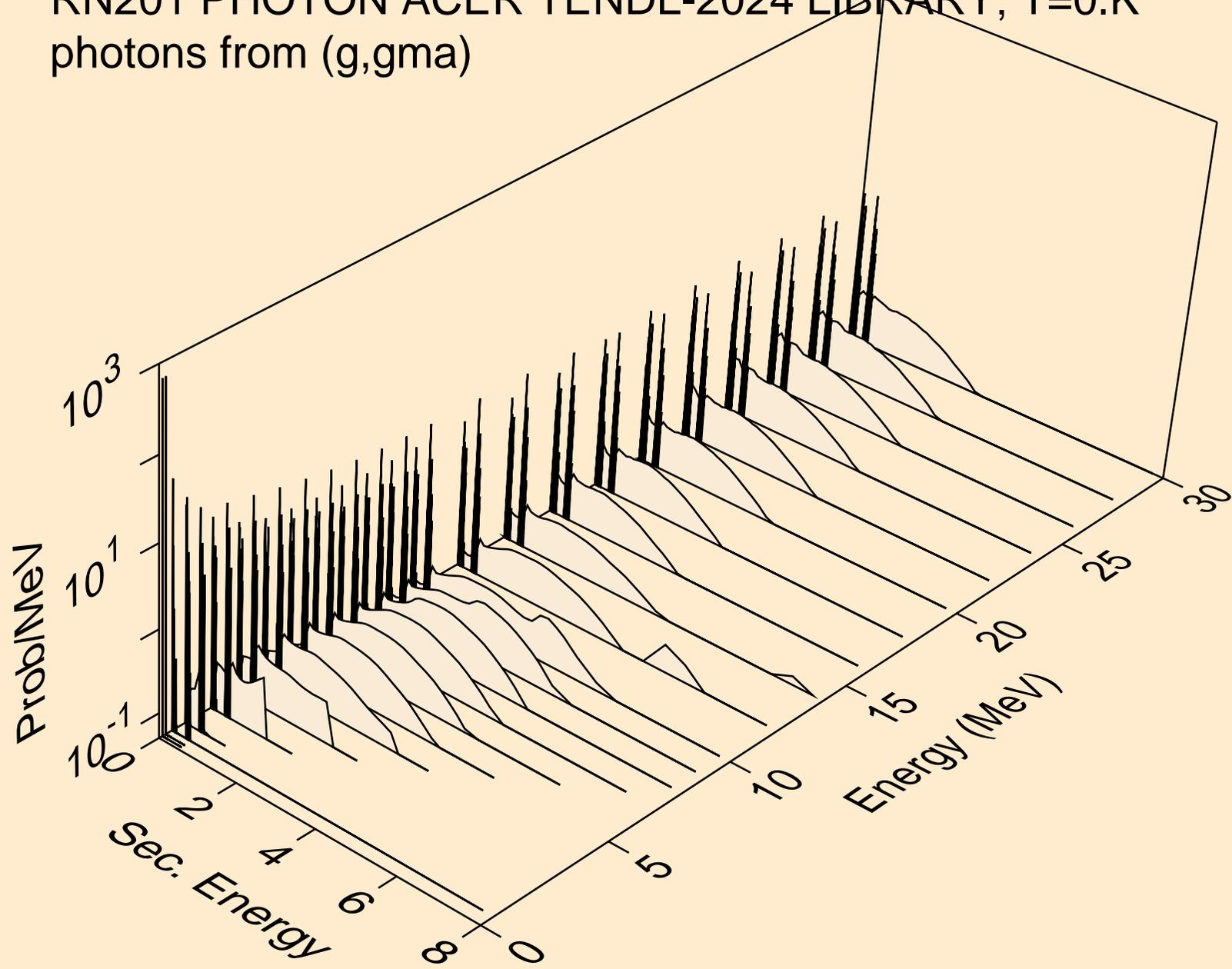RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,n2p)

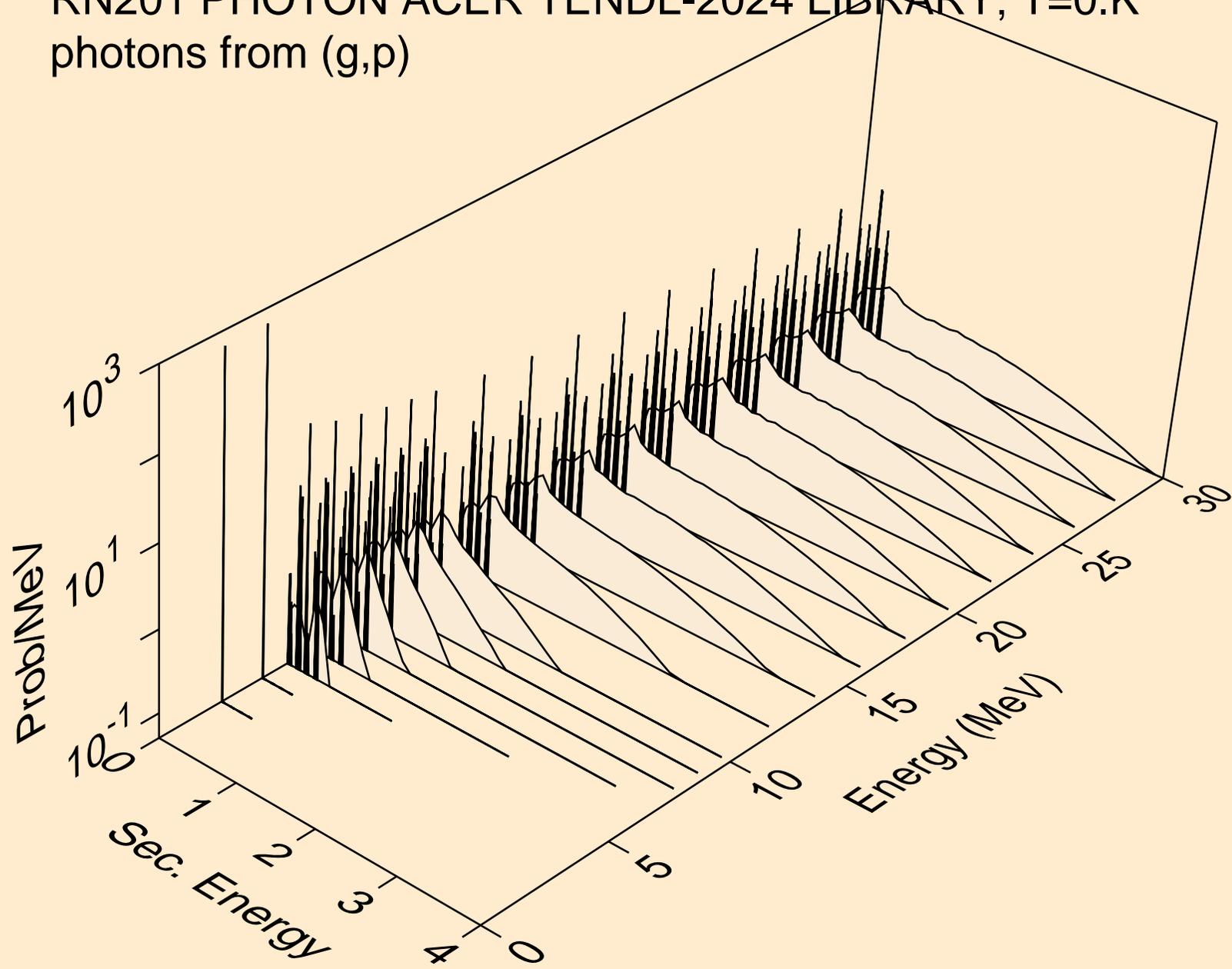RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,npa)

Prob/MeV

10^{-1}

10^{-3}

Sec. Energy

Energy (MeV)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,n*c)

Prob/MeV

10^0

10^{-2}

10^{-4}

Sec. Energy

2 4 6 8 10

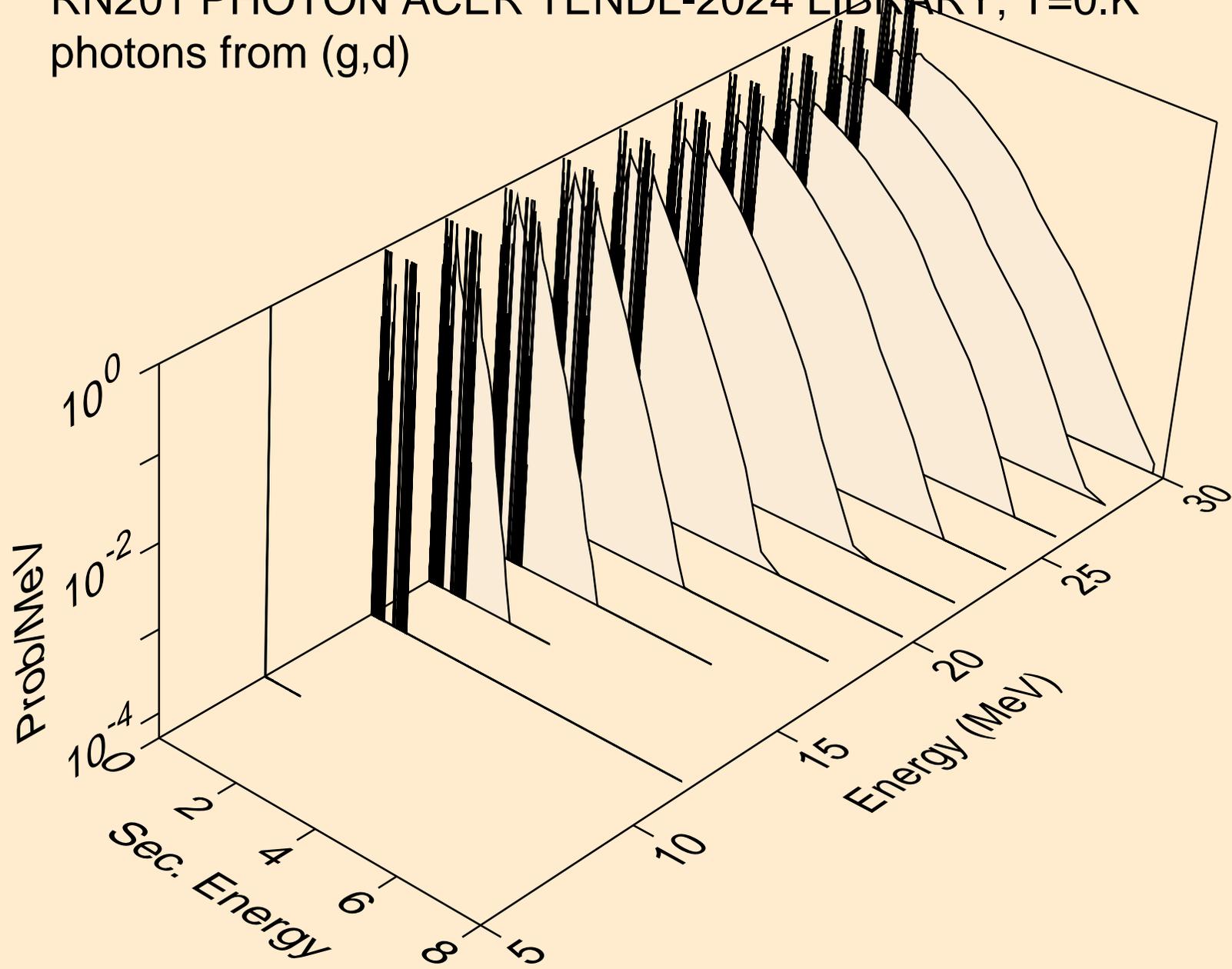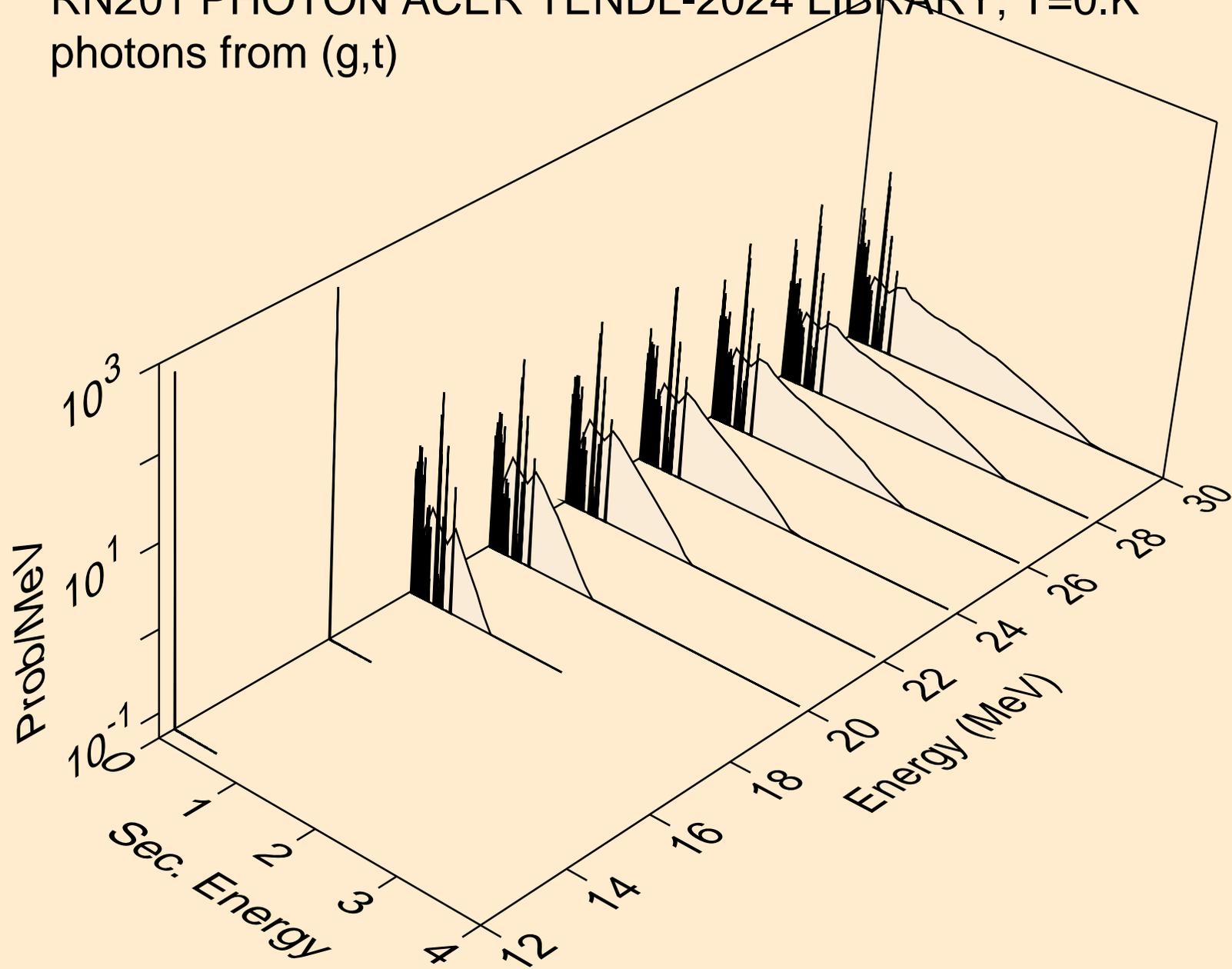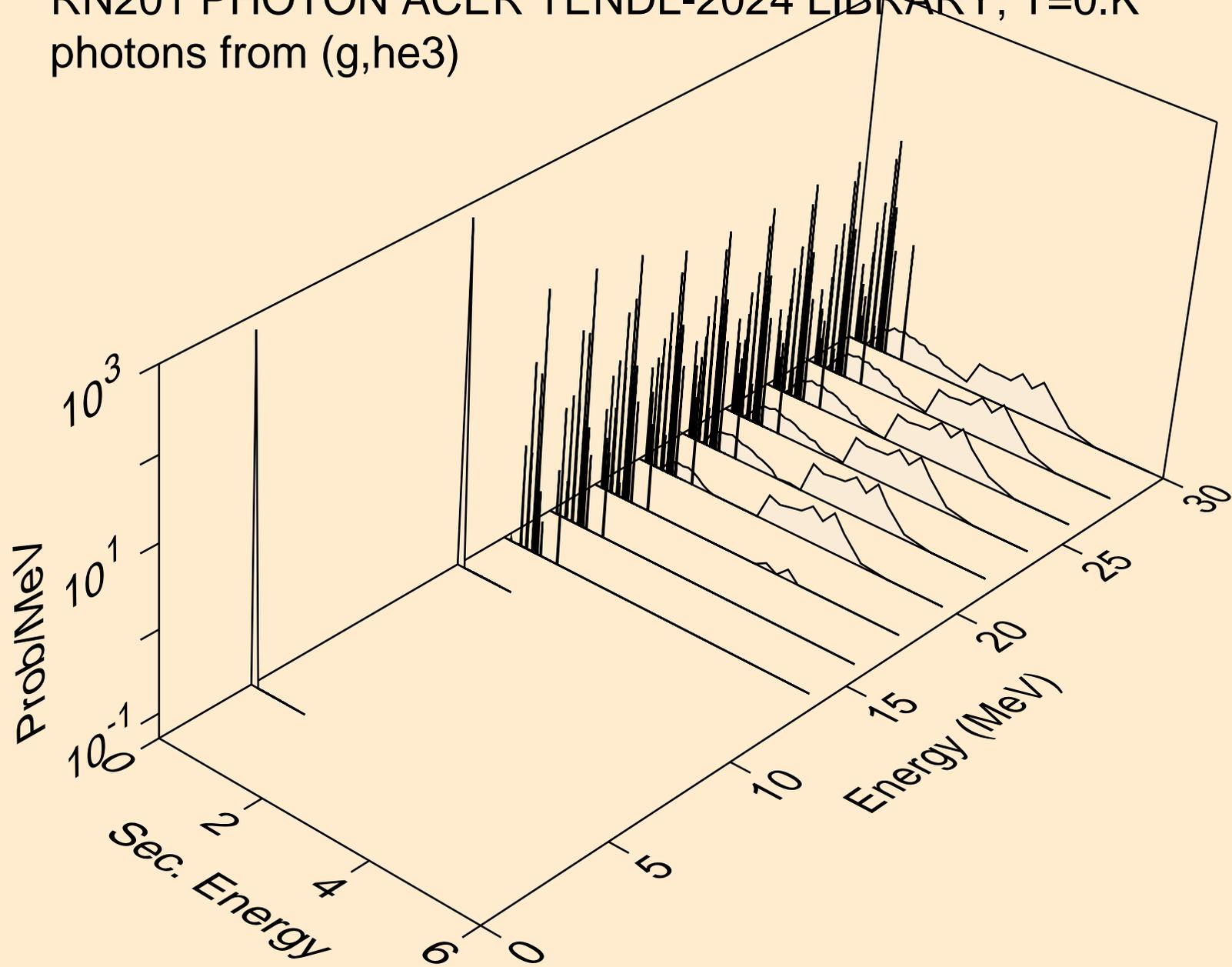Energy (MeV)

5 10 15 20 25 30

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,gma)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,p)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
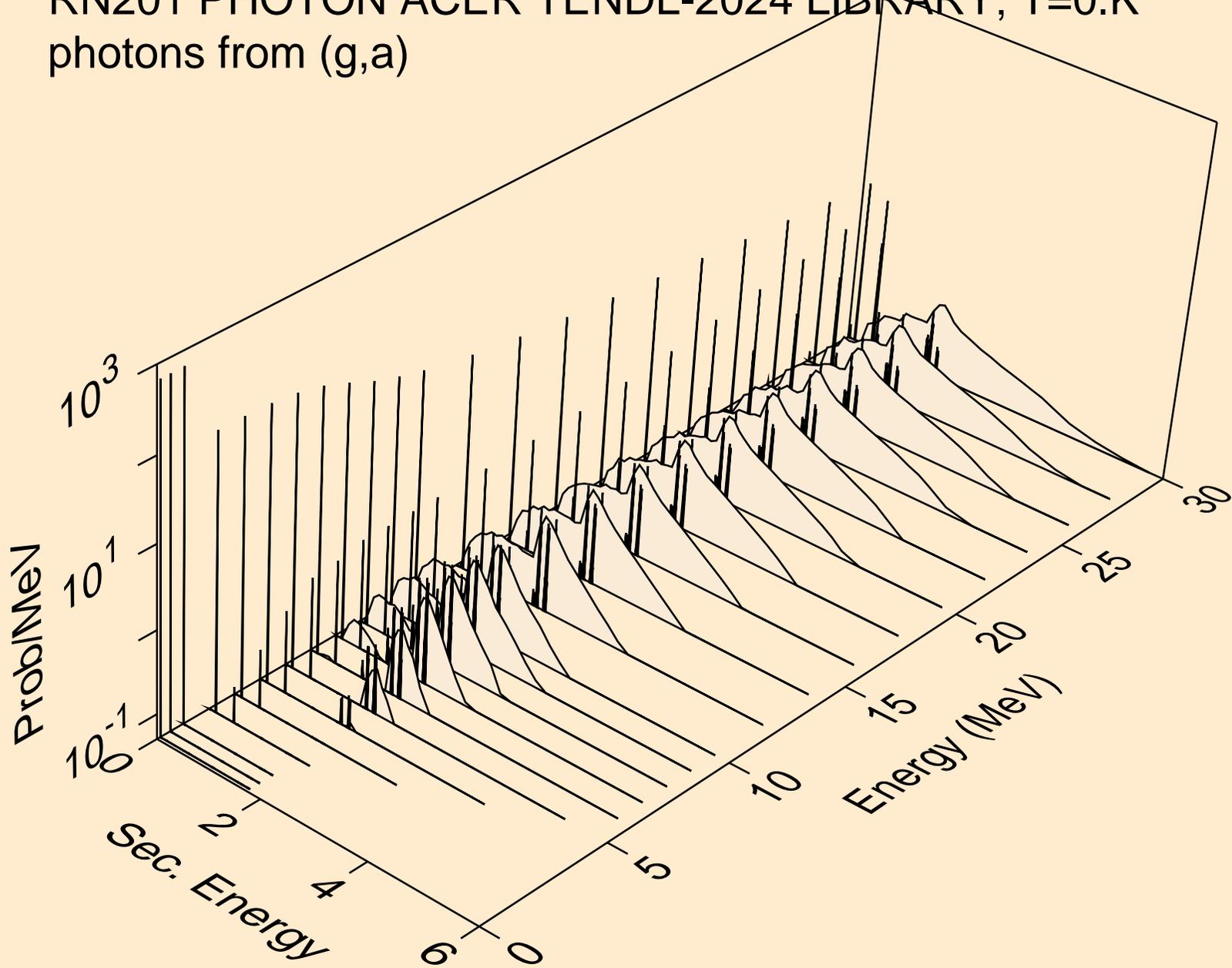photons from (g,d)

Prob/MeV

Sec. Energy

Energy (MeV)

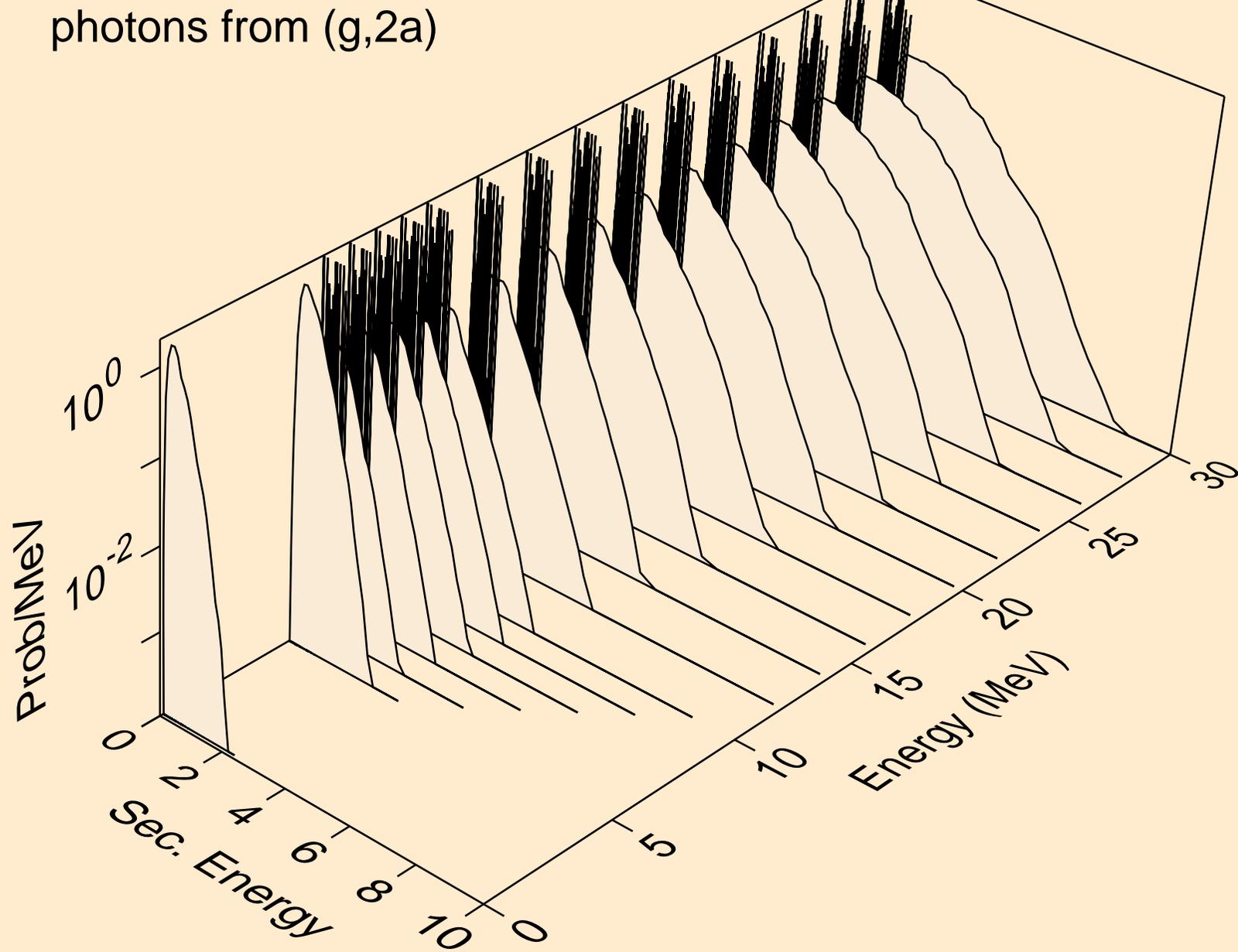RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,t)

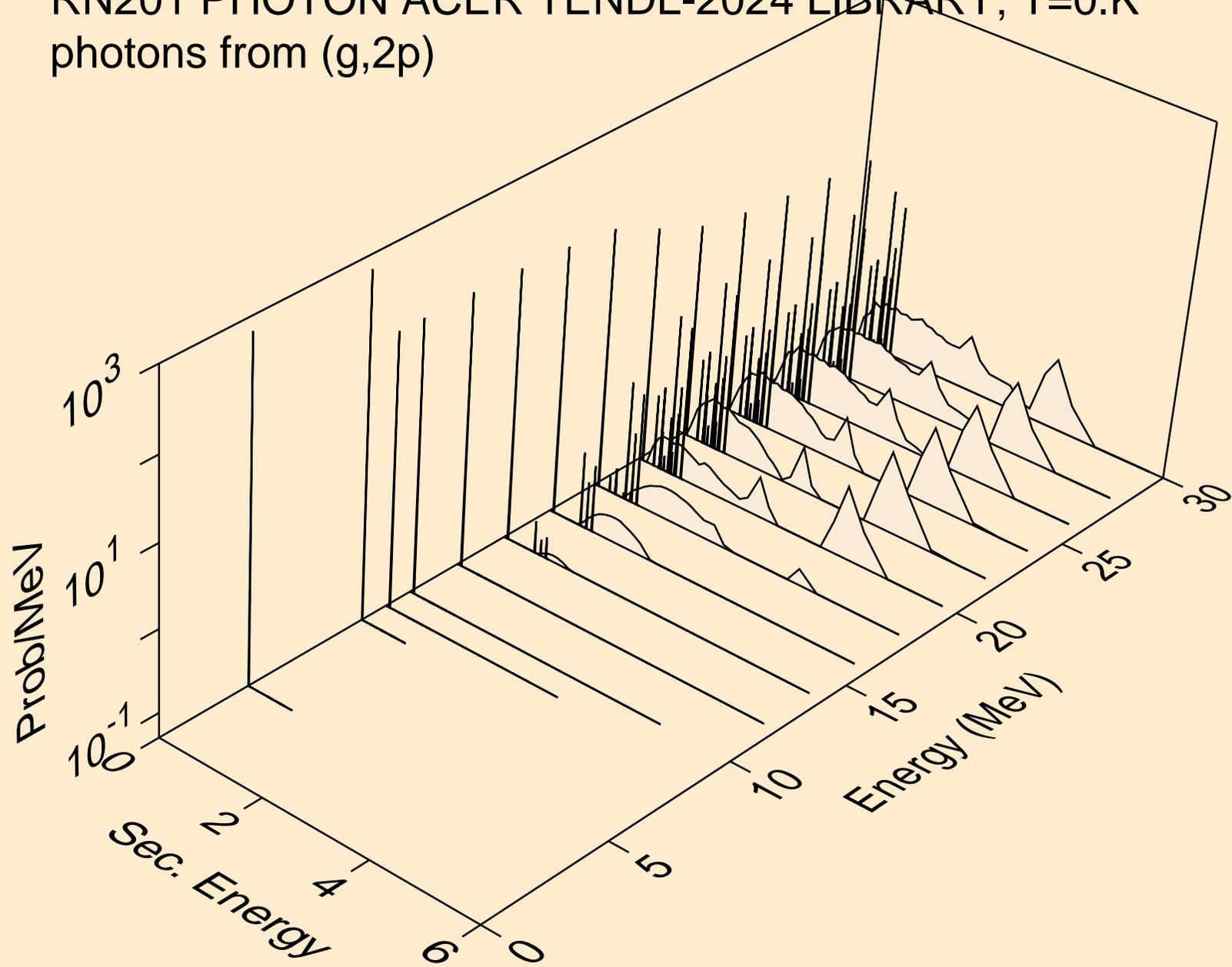RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,he3)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
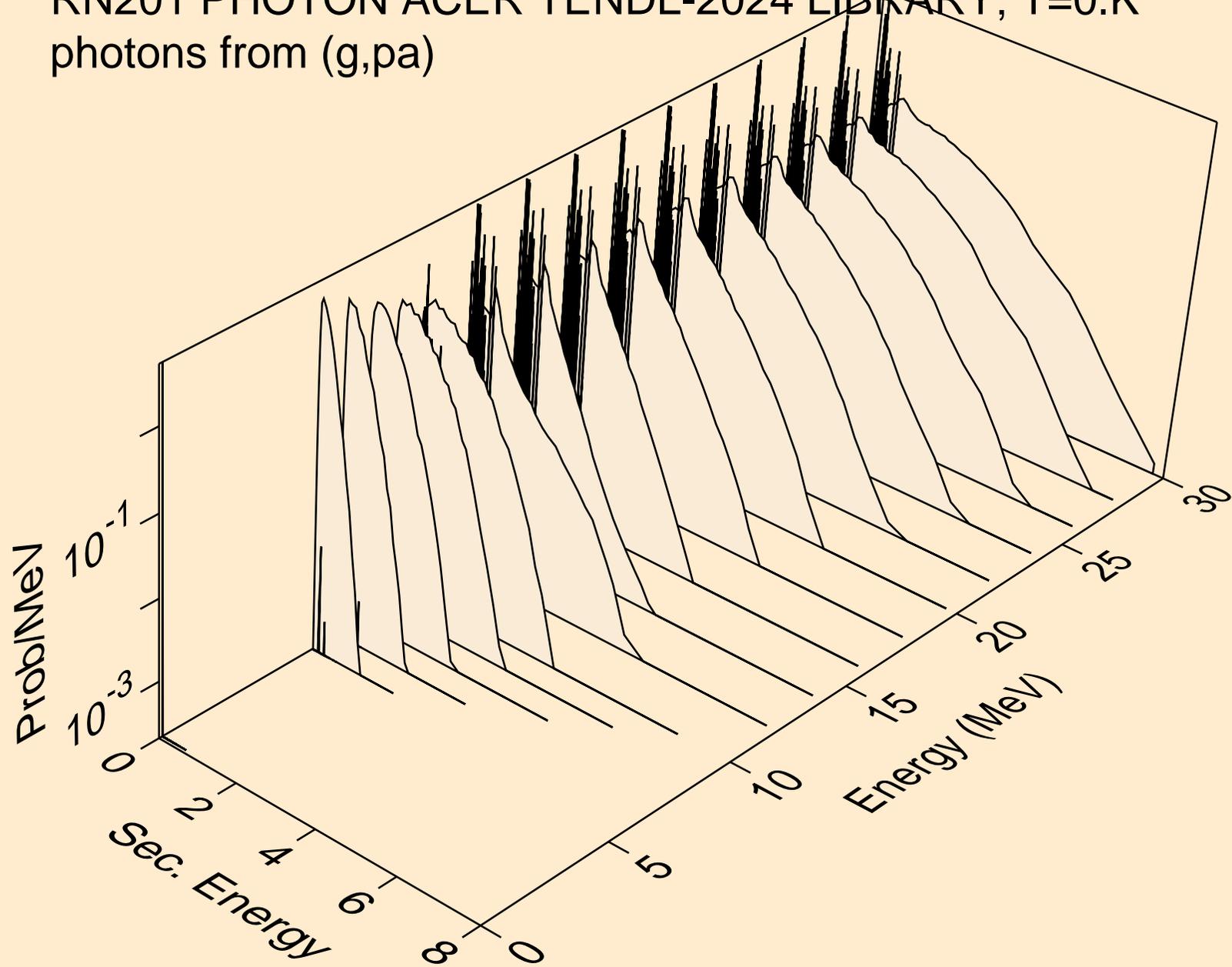photons from (g,a)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
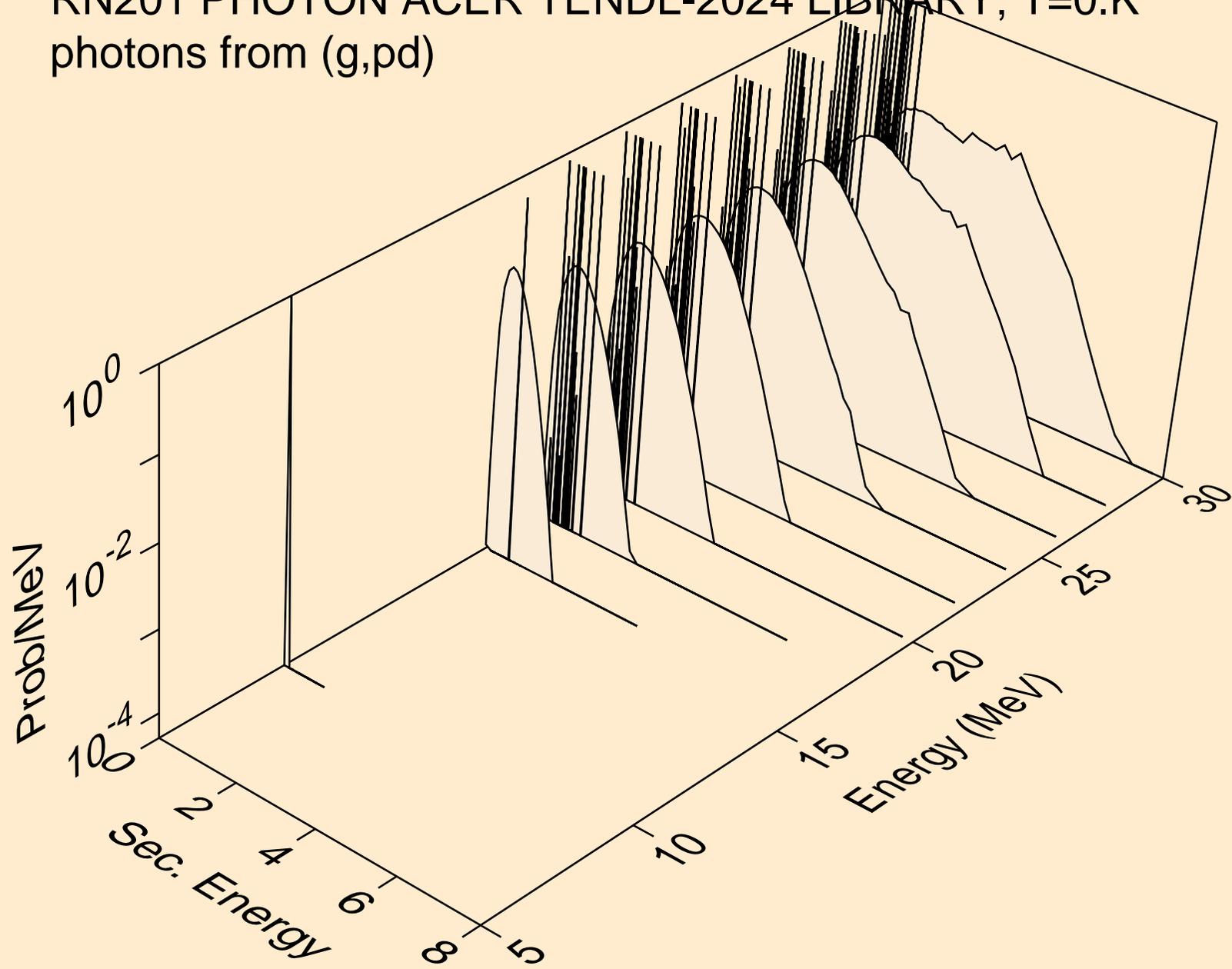photons from (g,2a)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
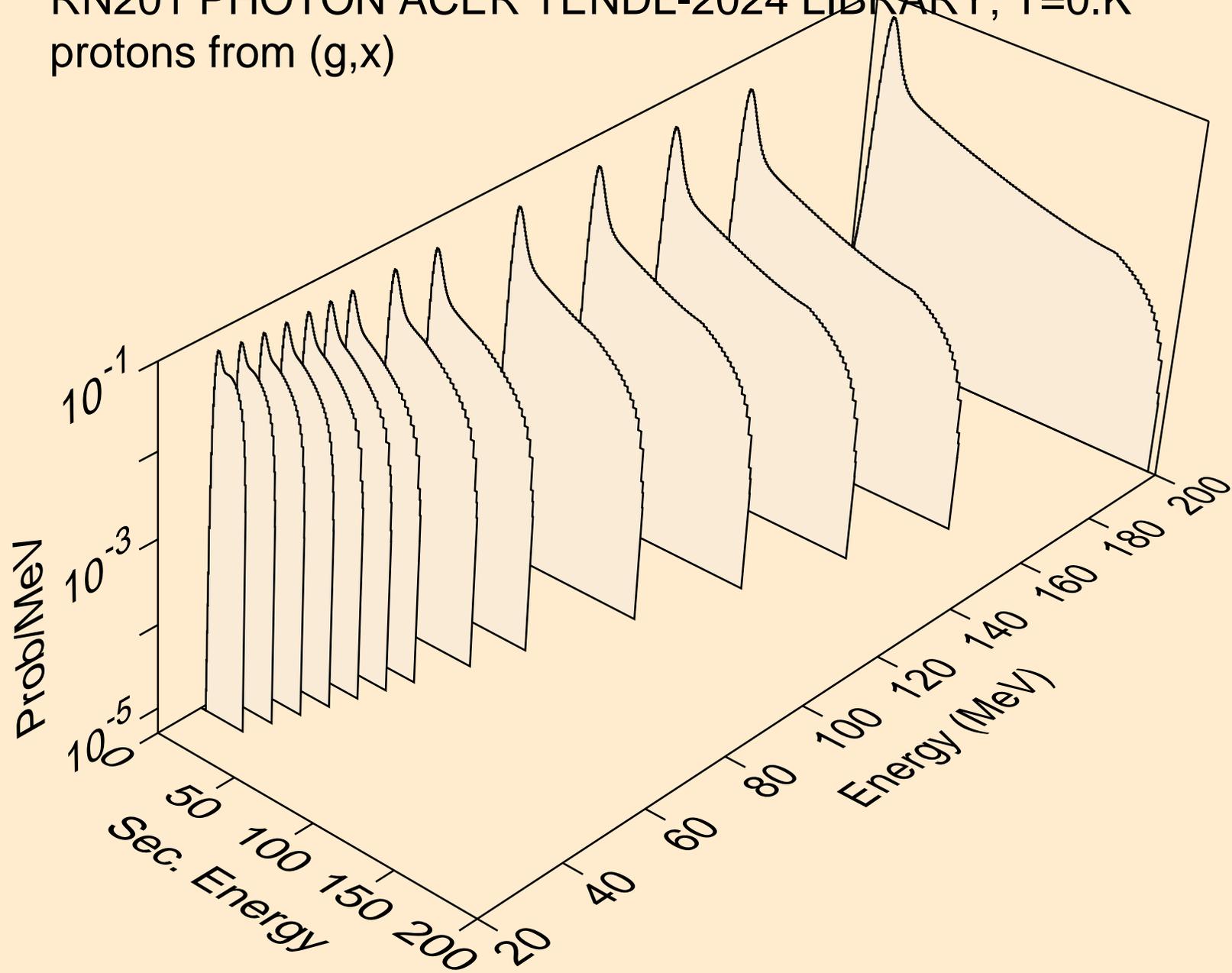photons from (g,2p)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
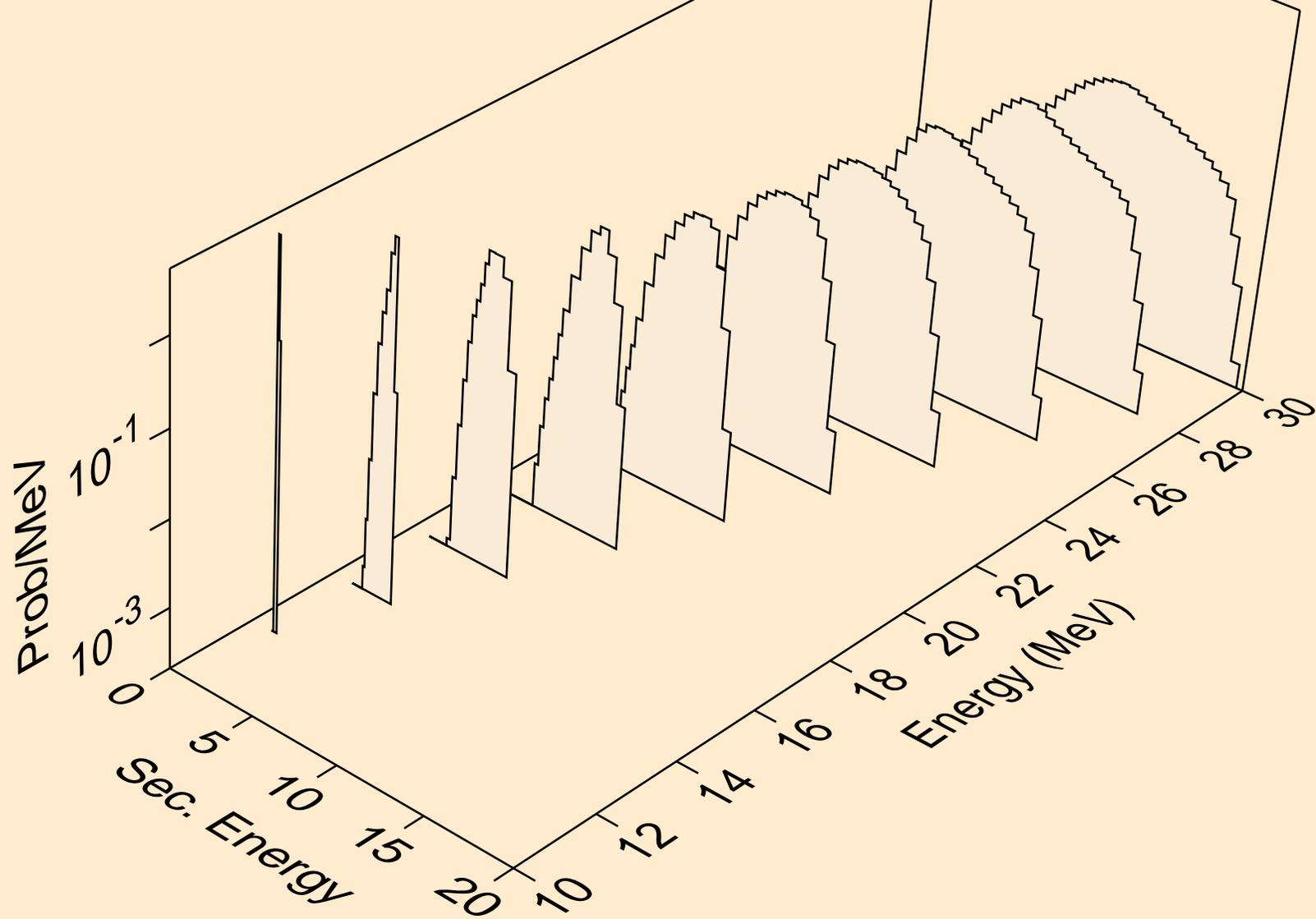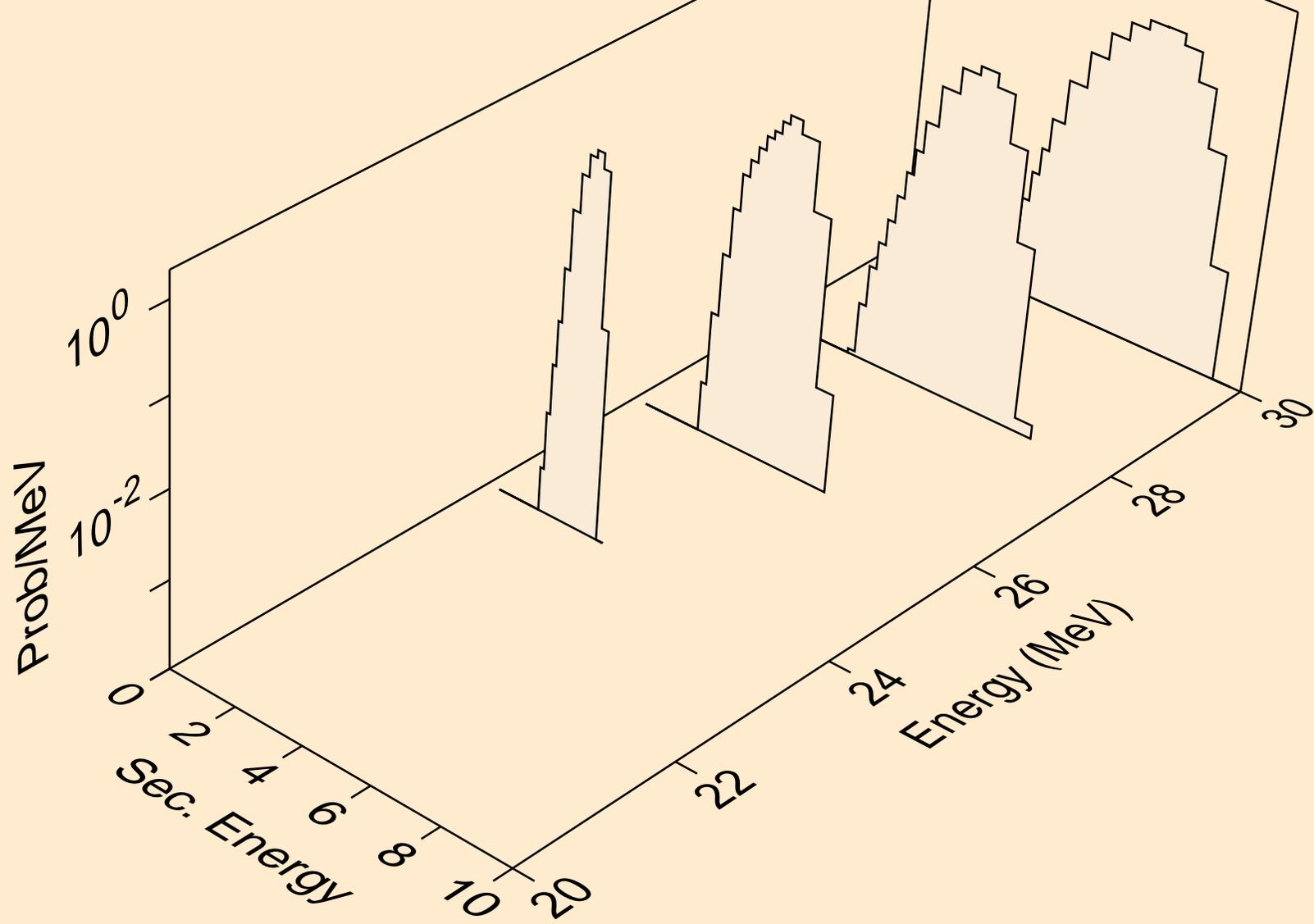photons from (g,pa)

Prob/MeV

10^{-1}

10^{-3}

Sec. Energy

Energy (MeV)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
photons from (g,pd)

Prob/MeV

10^0

10^{-2}

10^{-4}

Sec. Energy

2

4

6

8

Energy (MeV)

5

10

15

20

25

30
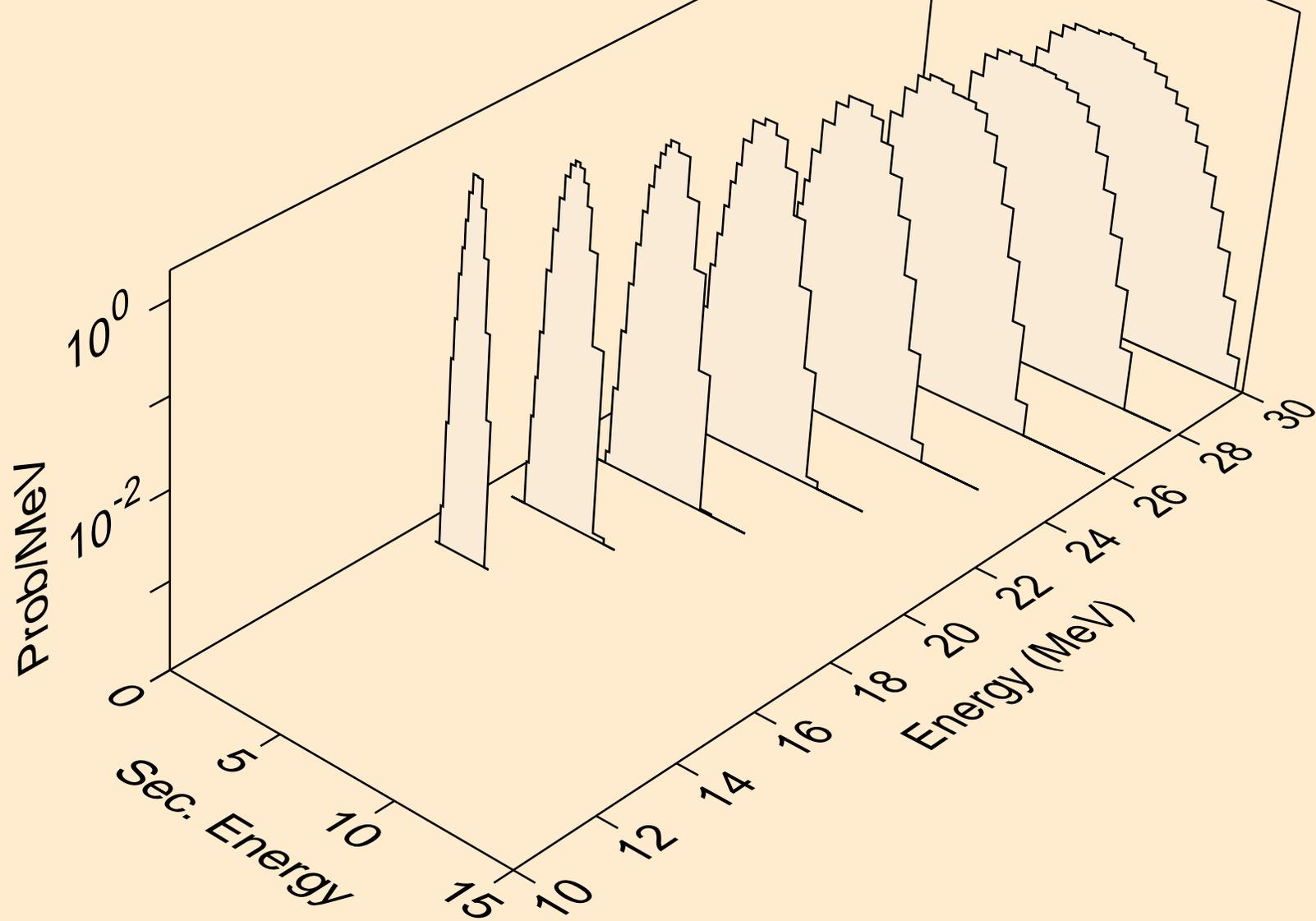
RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
protons from (g,x)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
protons from (g,n*)p

Prob/MeV

10^{-1}
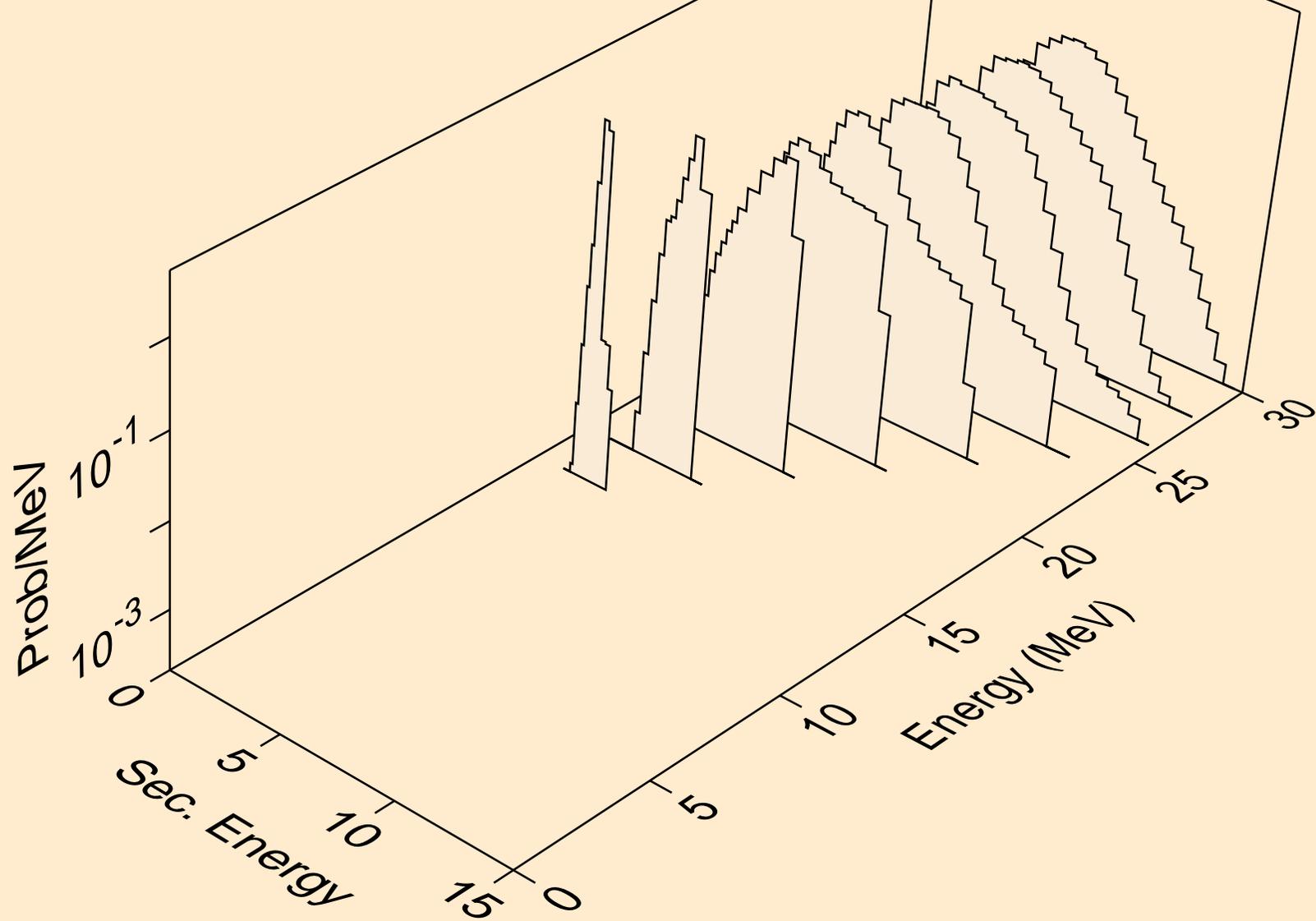
10^{-3}

Sec. Energy

Energy (MeV)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
protons from (g,2np)

ProbMeV

10^0

10^{-2}

0

Sec. Energy

2 4 6 8 10

Energy (MeV)

20 22 24 26 28 30

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
protons from (g,n2p)

Prob/MeV

10^0

10^{-2}

0

Sec. Energy

5

10

15

Energy (MeV)

10
12
14
16
18
20
22
24
26
28
30

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
protons from (g,npa)

Prob/MeV
10^{-1}
10^{-3}

Sec. Energy
0
5
10
15

Energy (MeV)
0
5
10
15
20
25
30

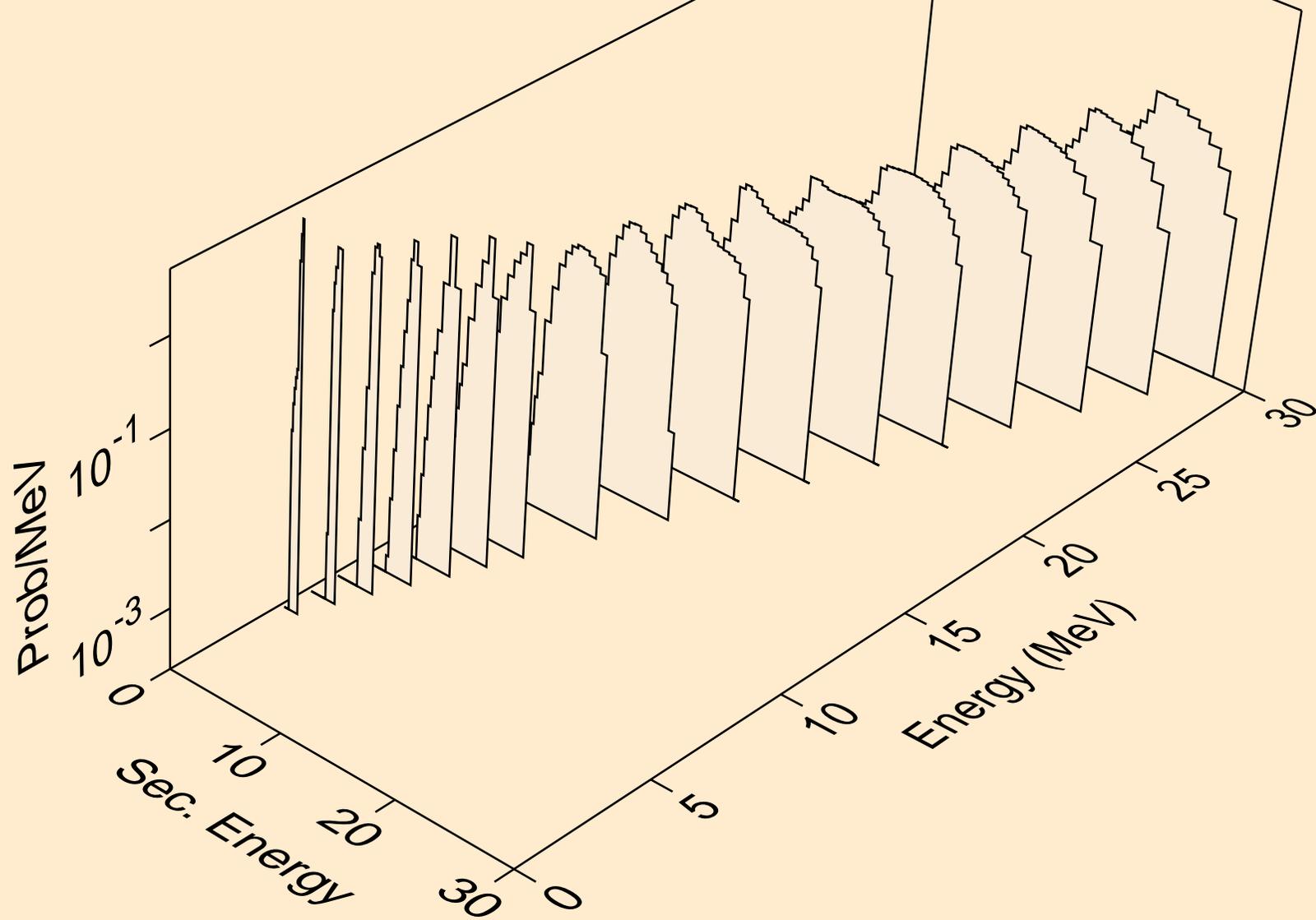RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
protons from (g,p)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
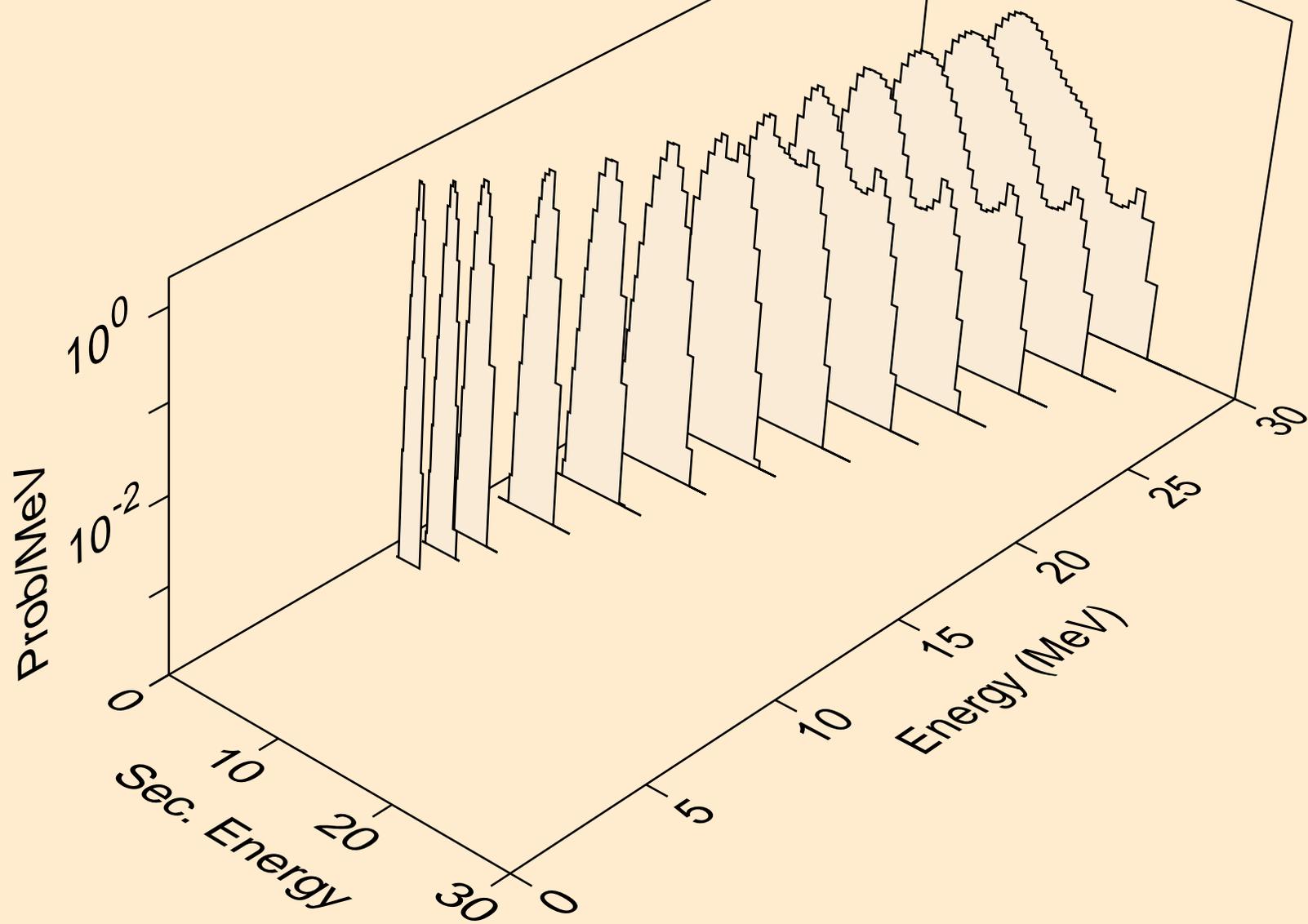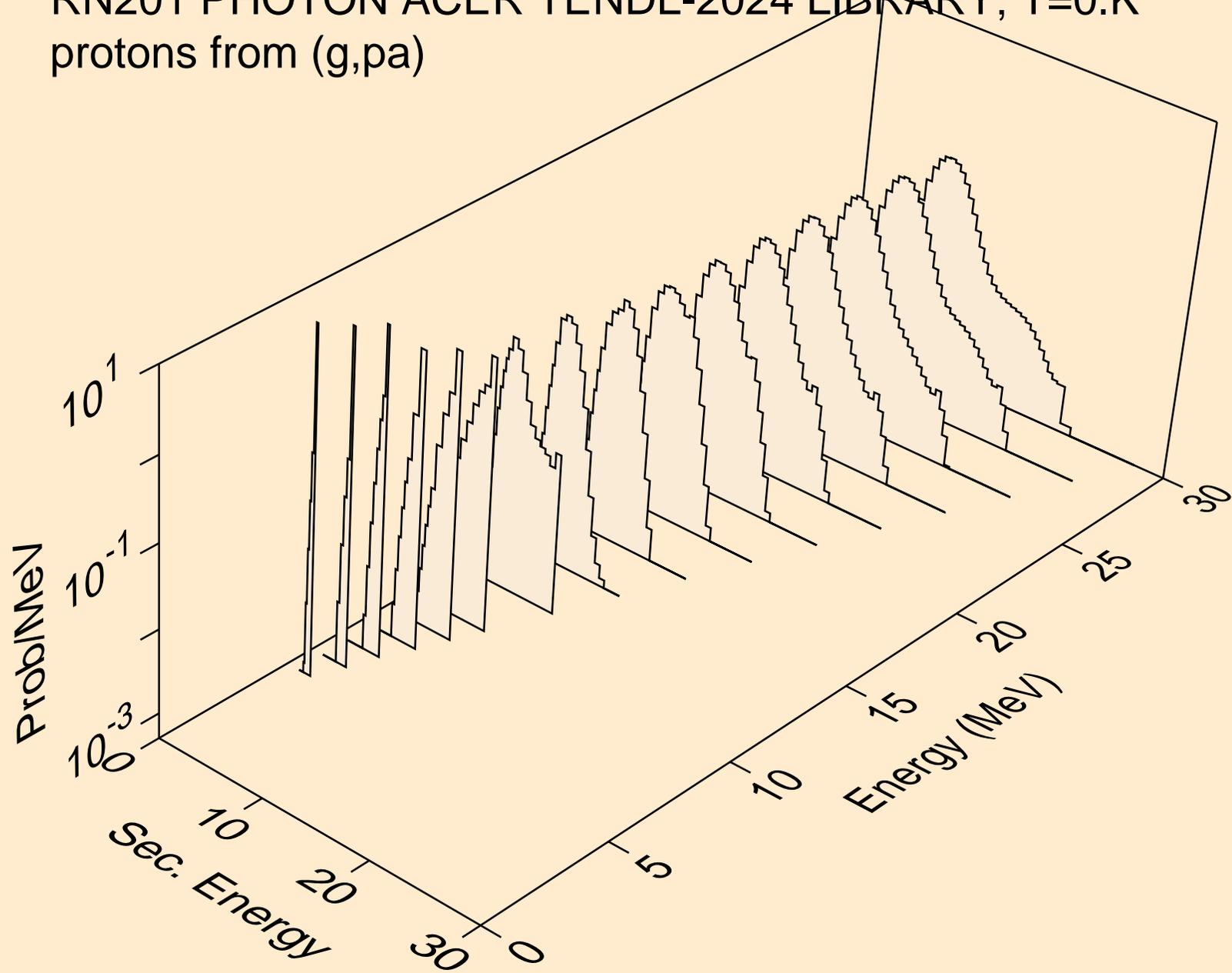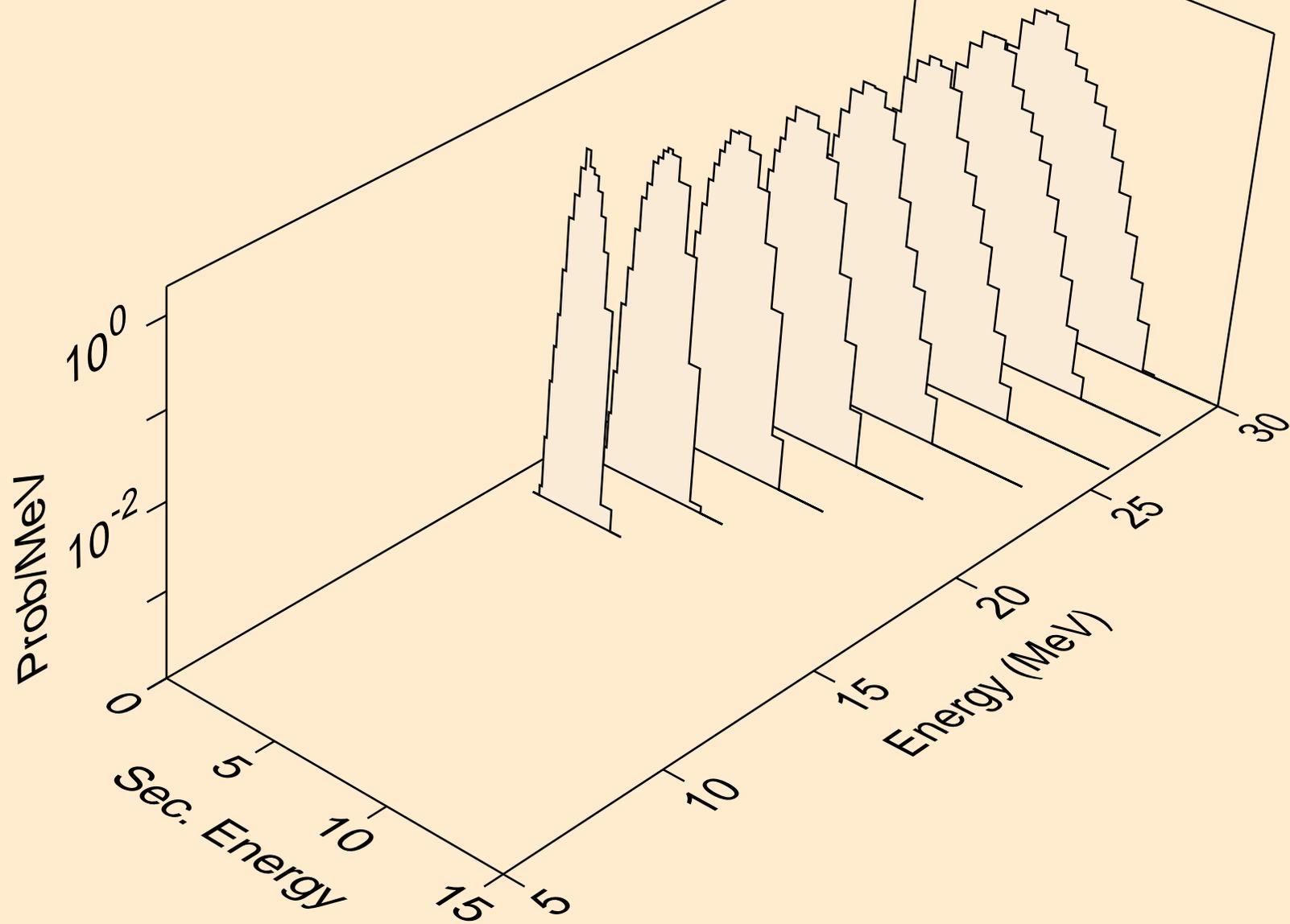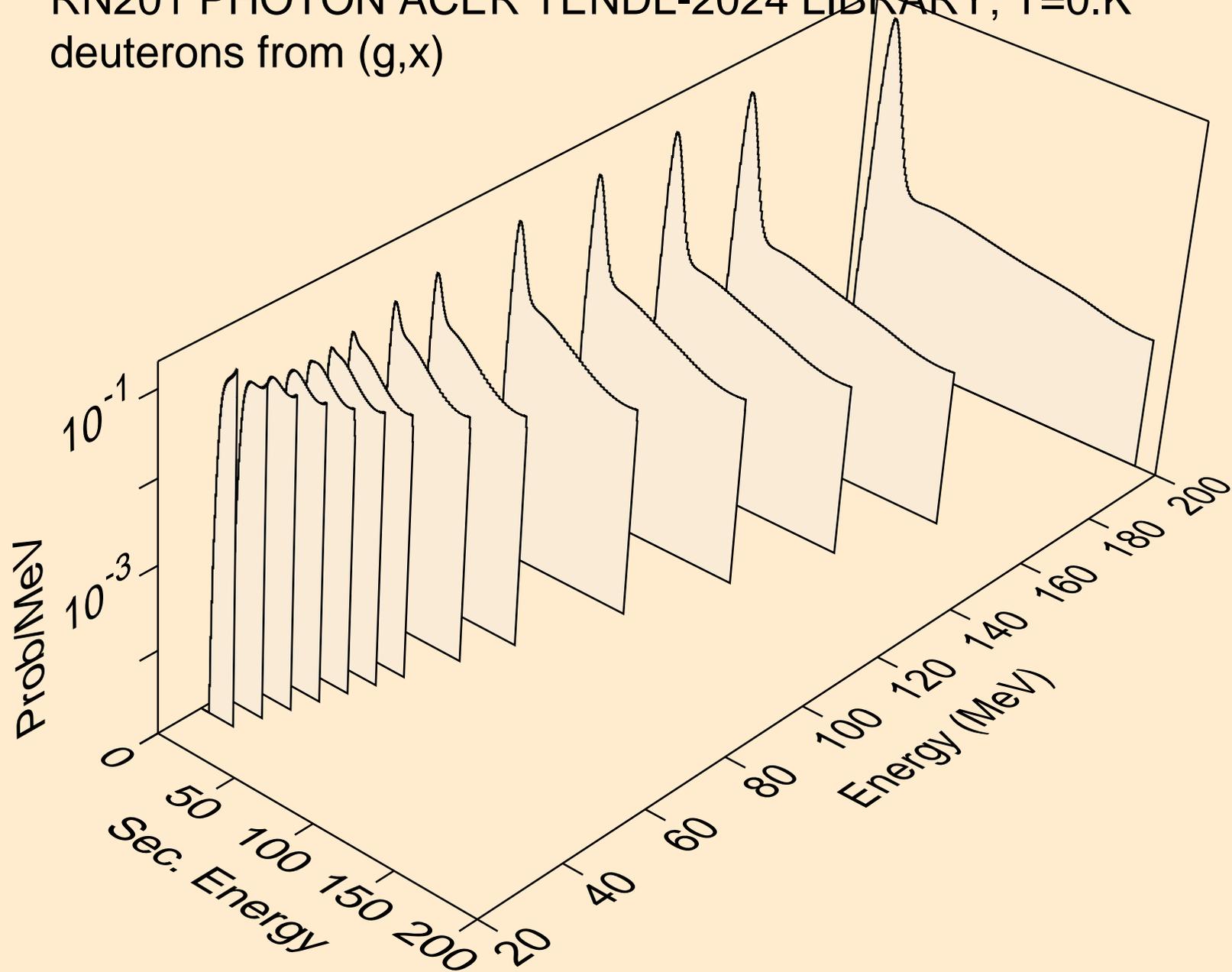protons from (g,2p)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
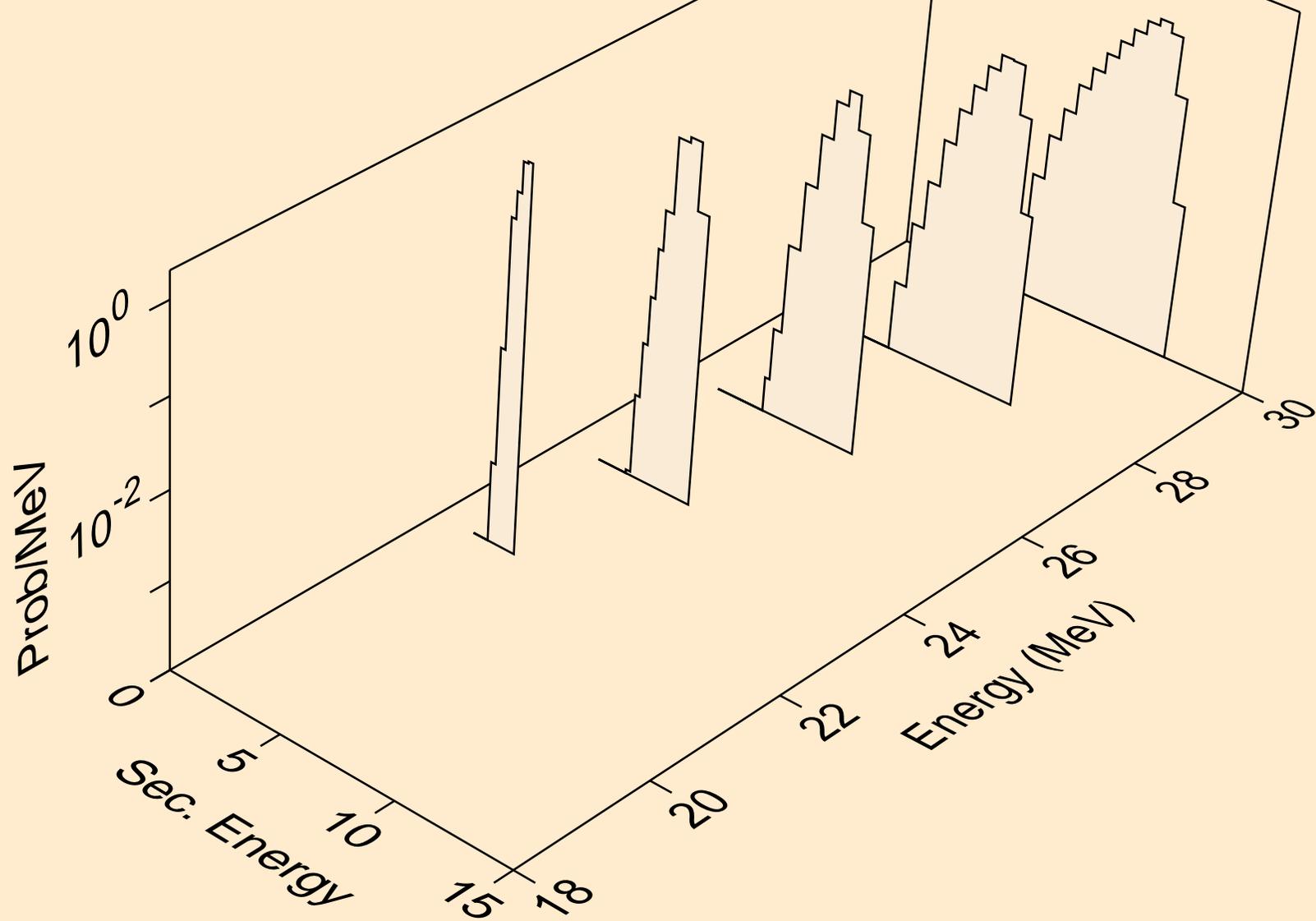protons from (g,pa)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
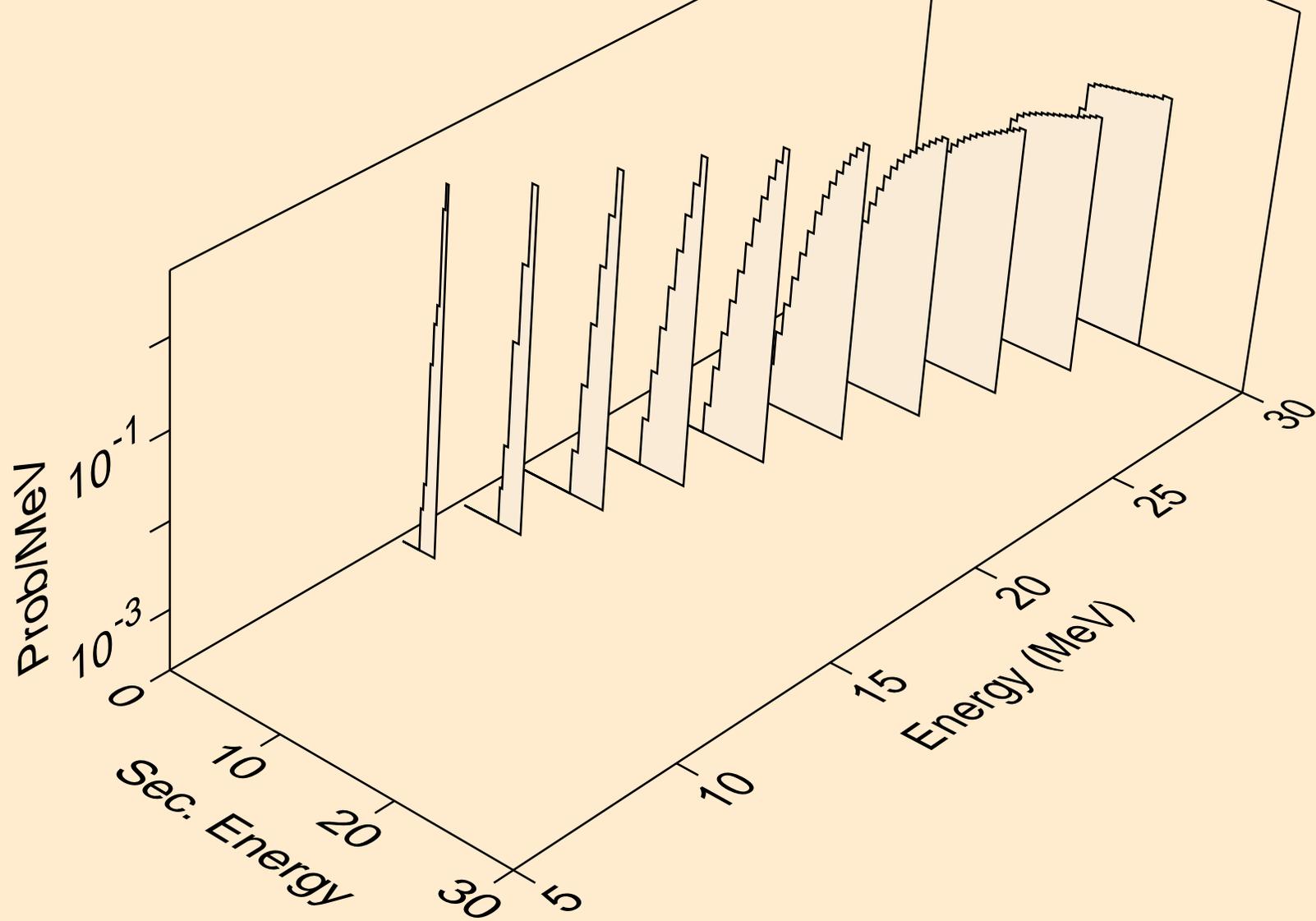protons from (g,pd)

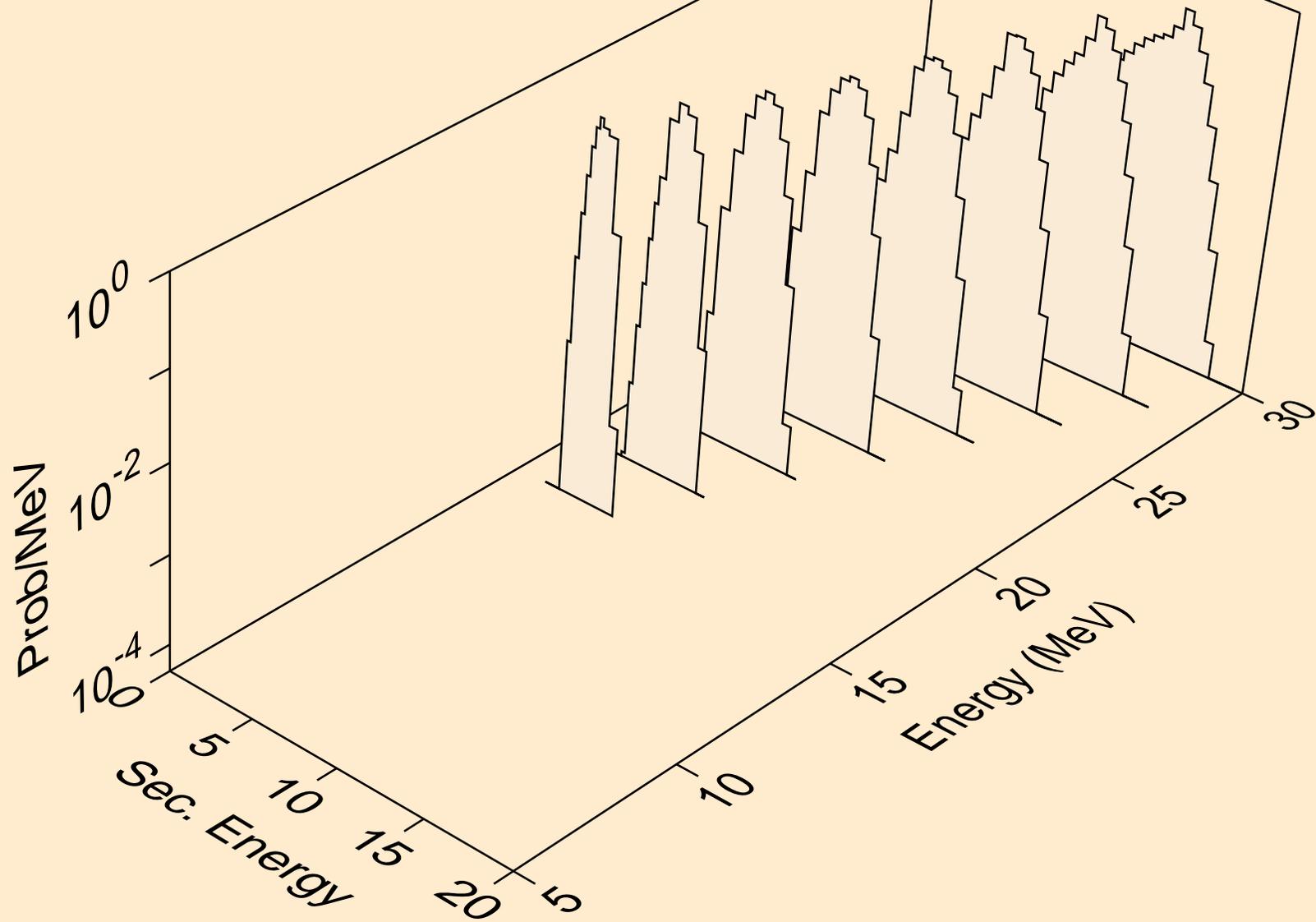RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (g,x)

Prob/MeV

10^{-1}

10^{-3}

0

Sec. Energy

50   100   150   200

Energy (MeV)

20   40   60   80   100   120   140   160   180   200
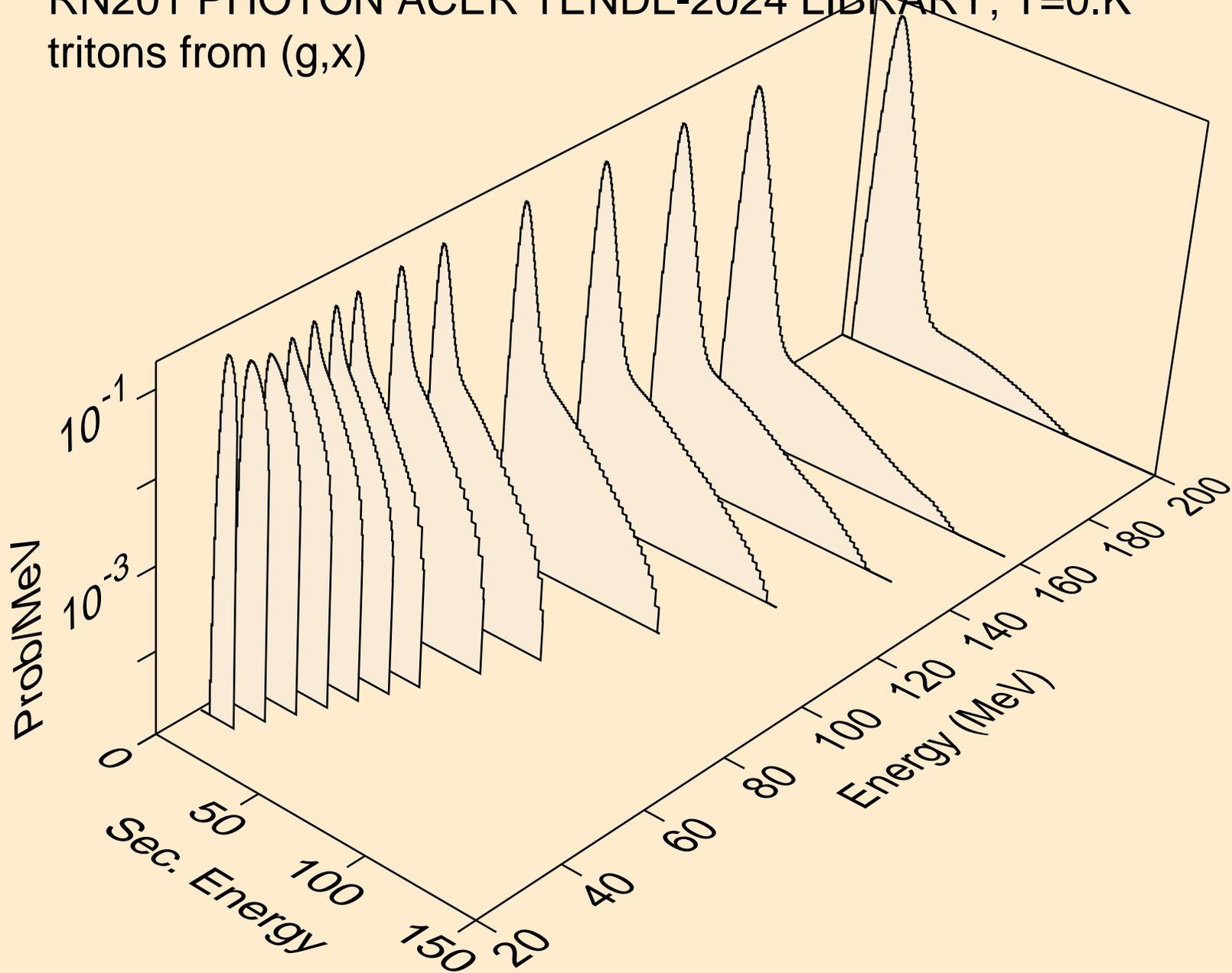
RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (g,n*)d

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (g,d)

Prob/MeV

Sec. Energy

Energy (MeV)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (g,pd)

Prob/MeV

10^0

10^{-2}

10^{-4}

Sec. Energy

5

10

15

20

Energy (MeV)

5

10

15

20

25

30
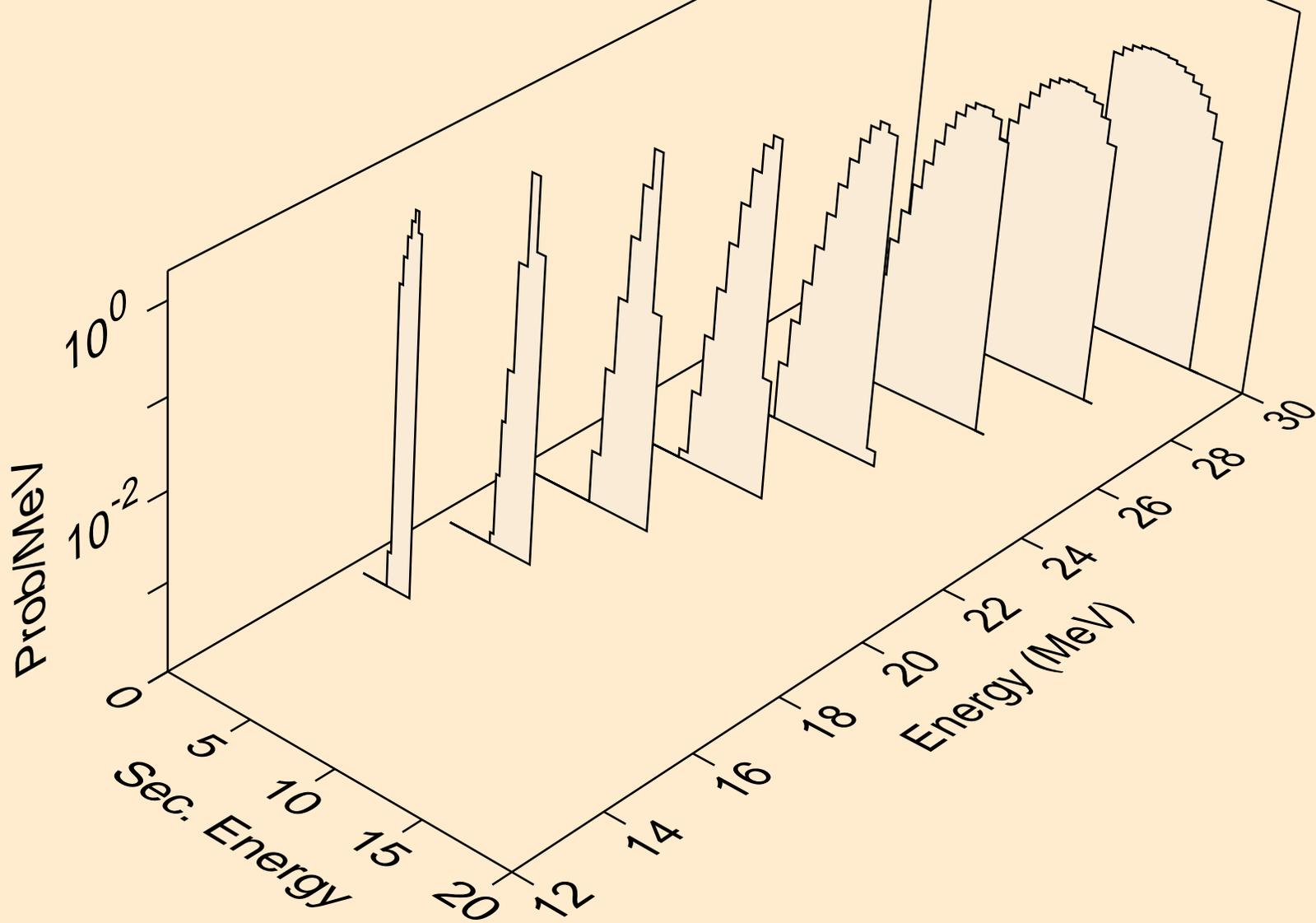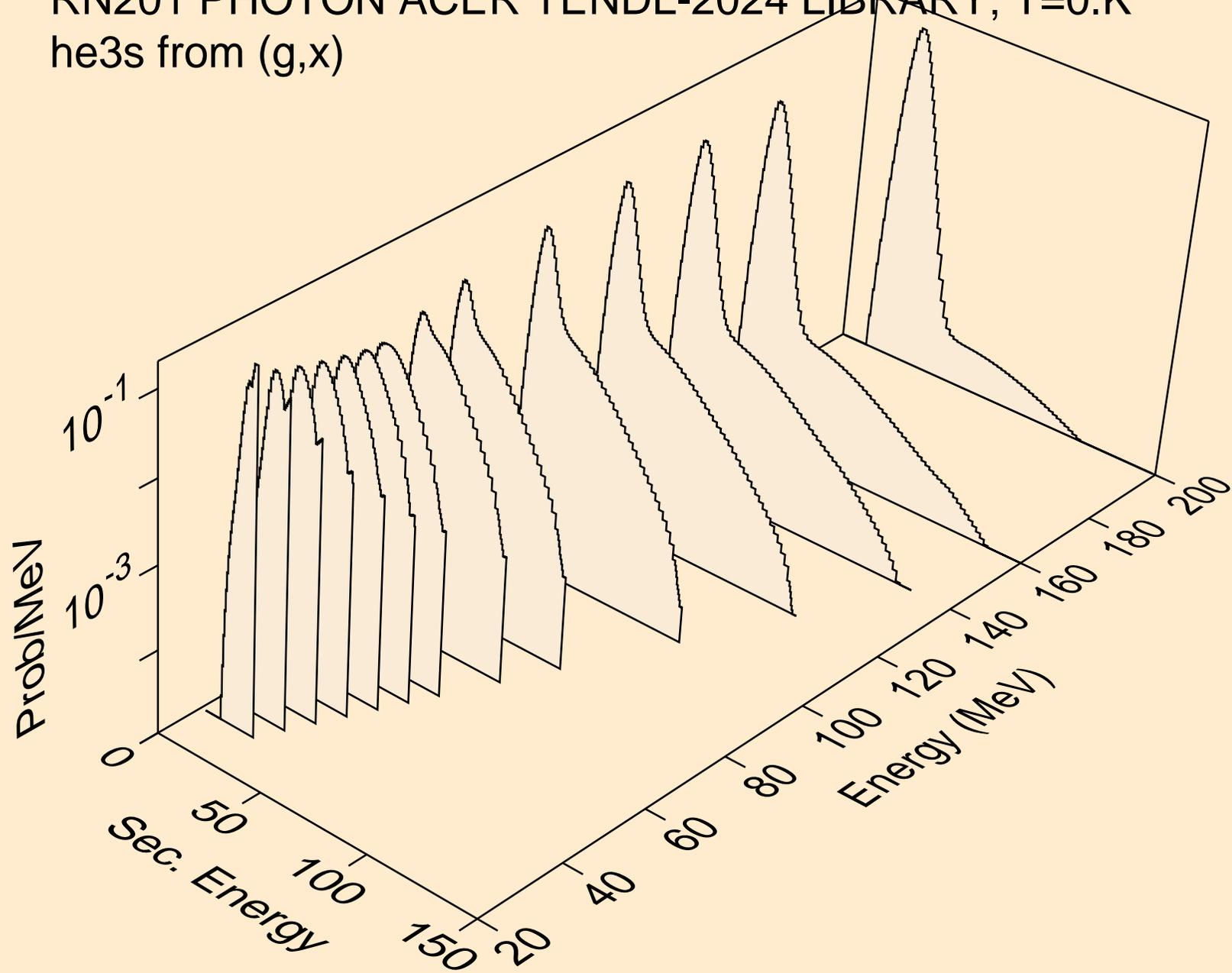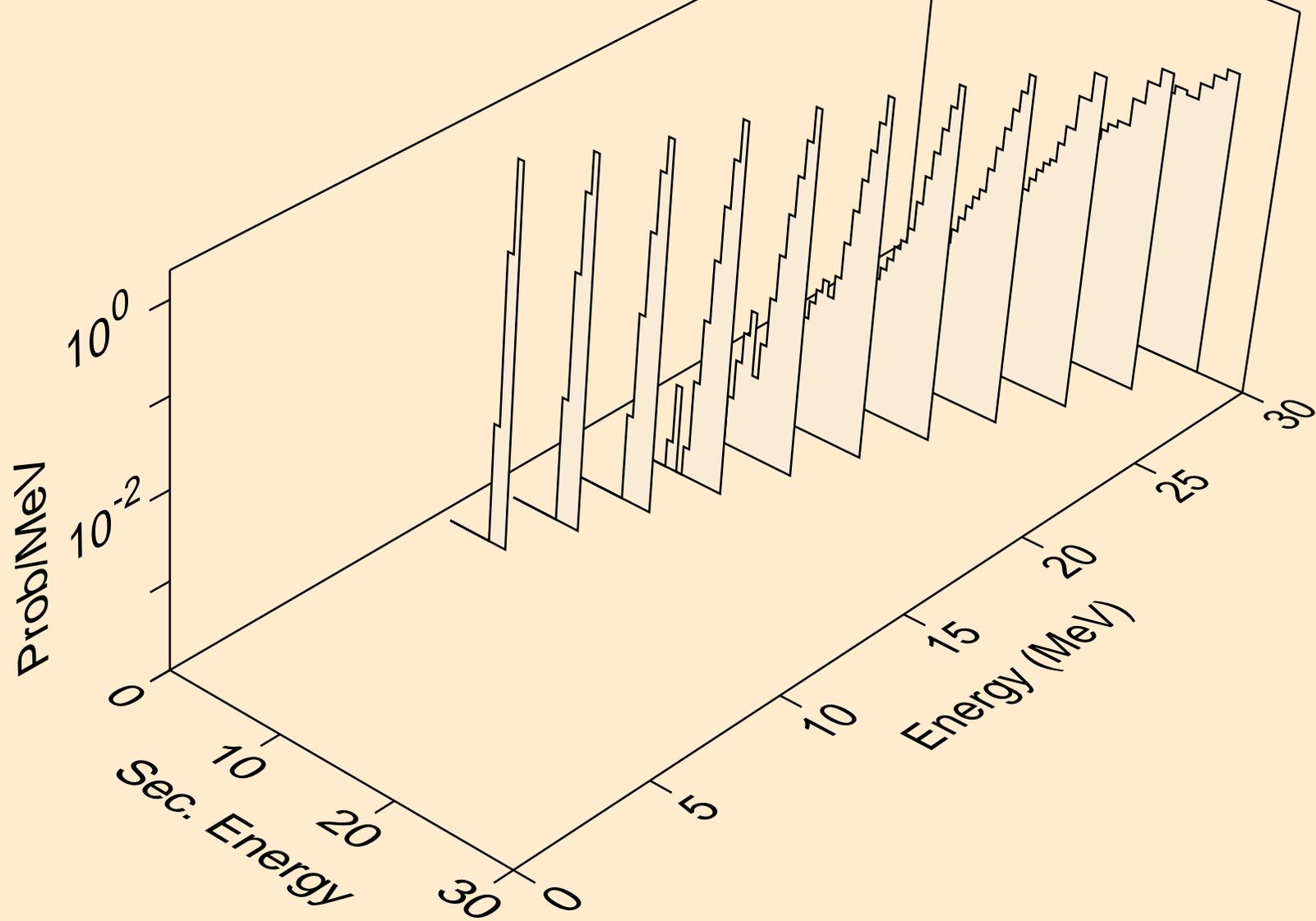
RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
tritons from (g,x)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
tritons from (g,t)

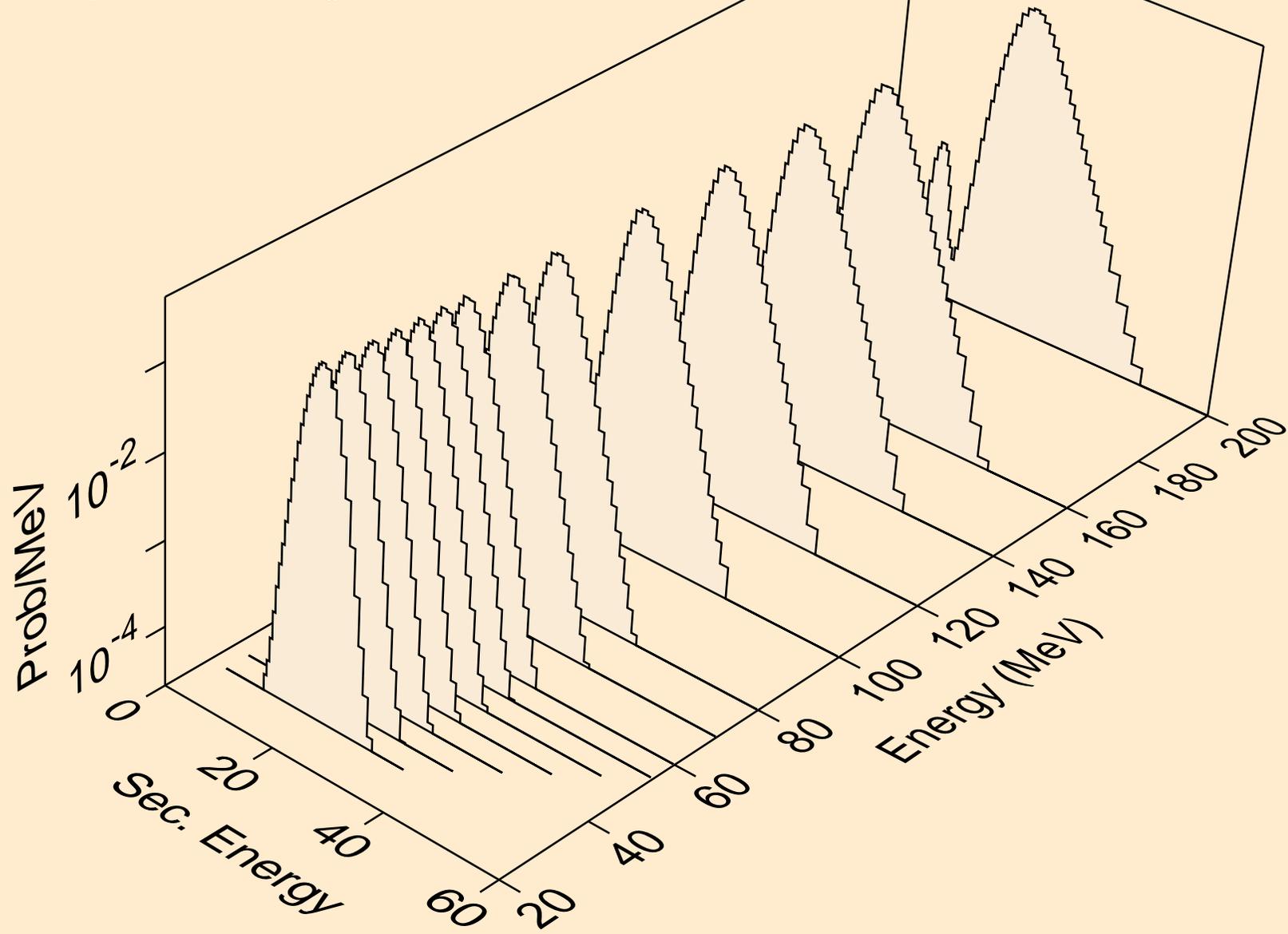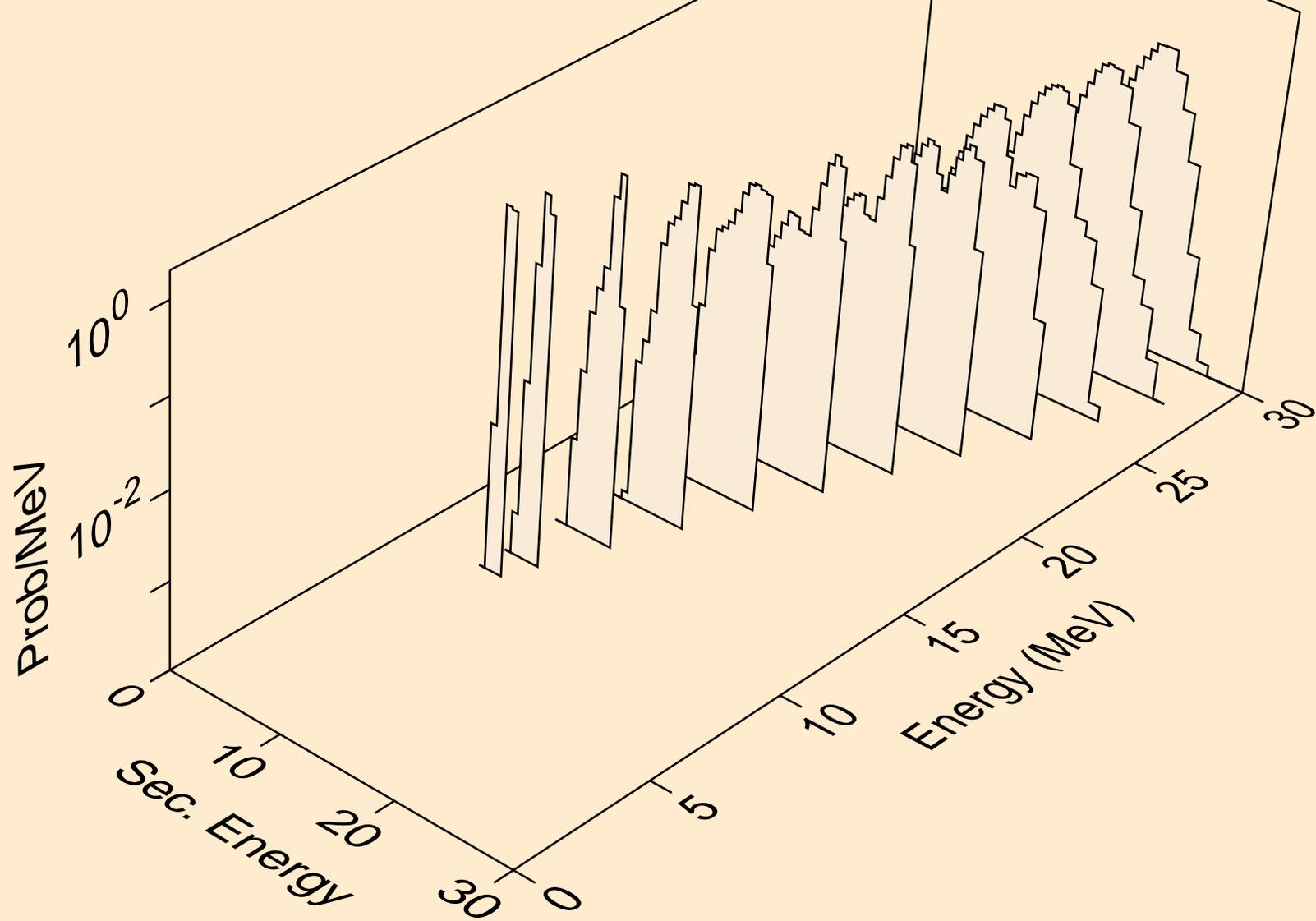RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
he3s from (g,x)

Prob/MeV

10^{-1}

10^{-3}

0

Sec. Energy

50

100

150

Energy (MeV)

20 40 60 80 100 120 140 160 180 200

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
he3s from (g,he3)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (g,x)

Prob/MeV

10^{-2}

10^{-4}

0

Sec. Energy

20

40

60

Energy (MeV)

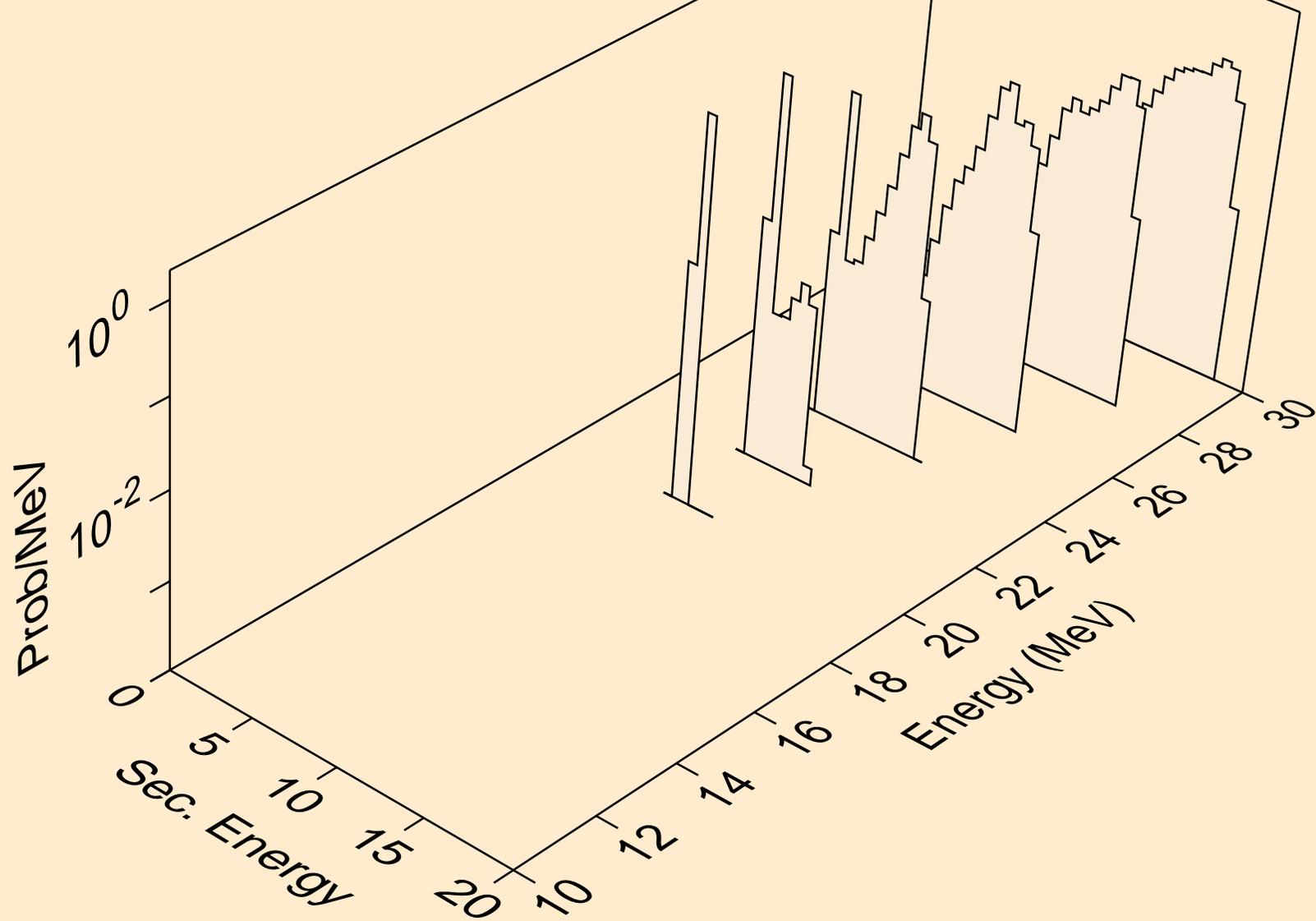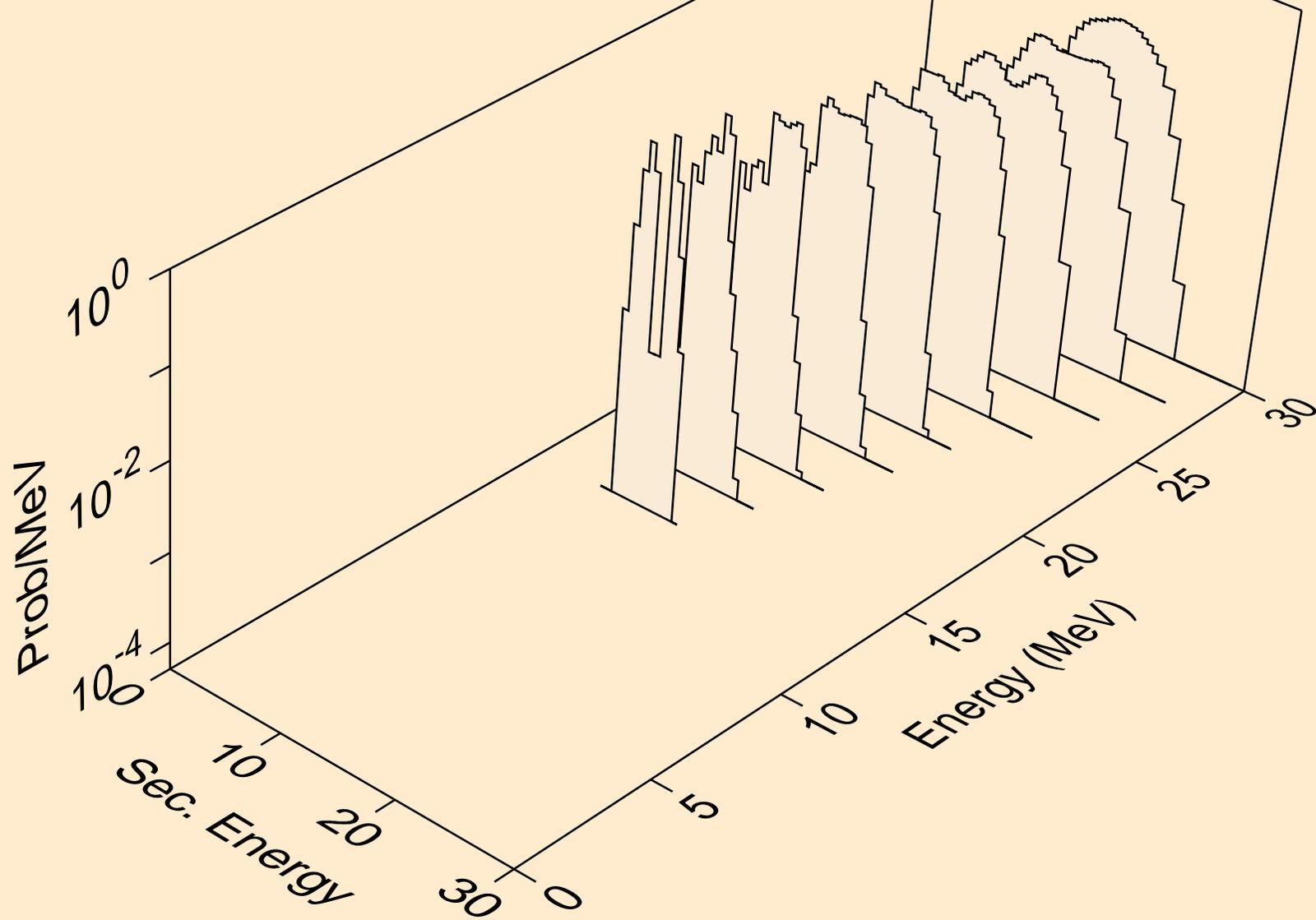20 40 60 80 100 120 140 160 180 200

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
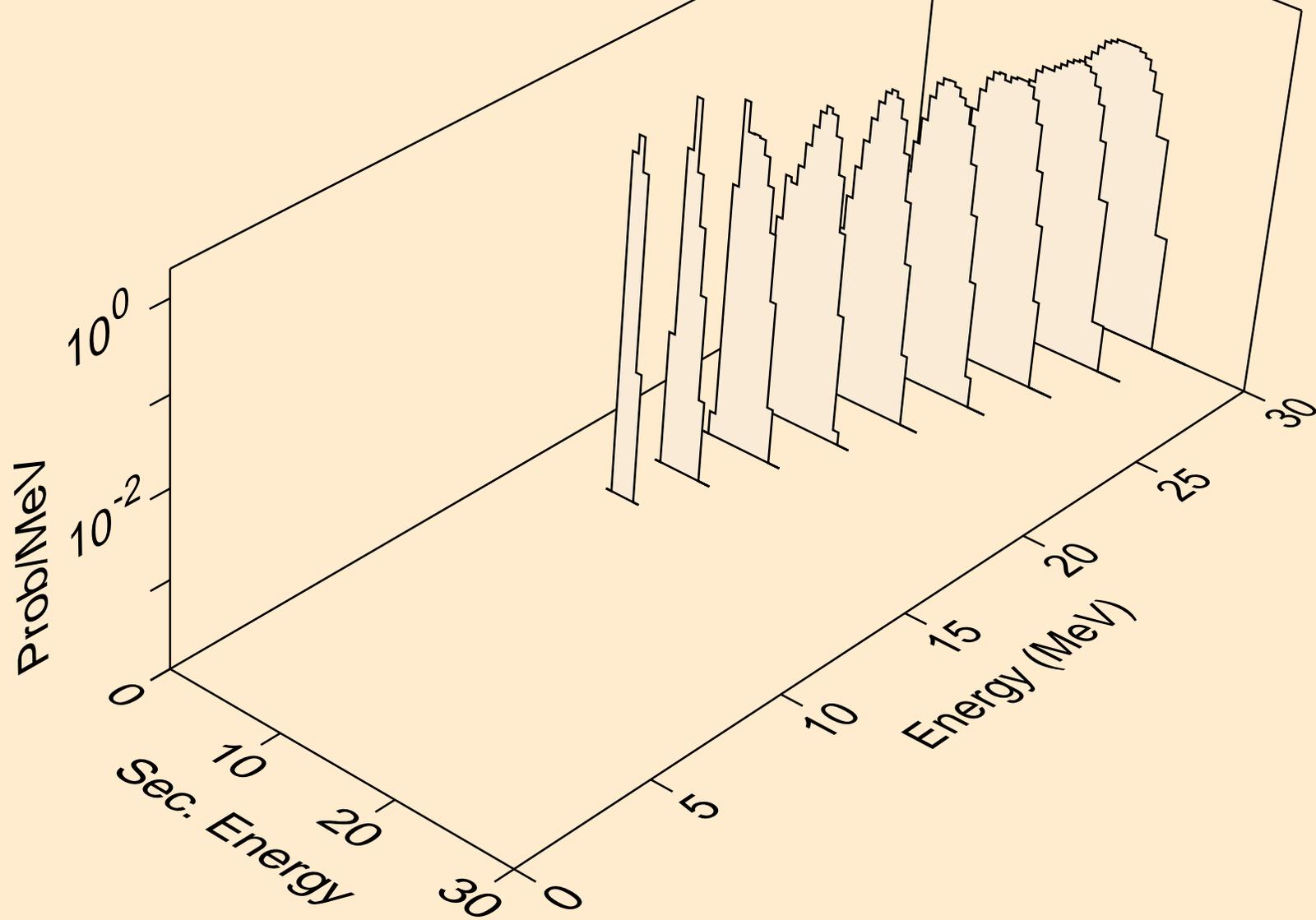alphas from (g,n*)a

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
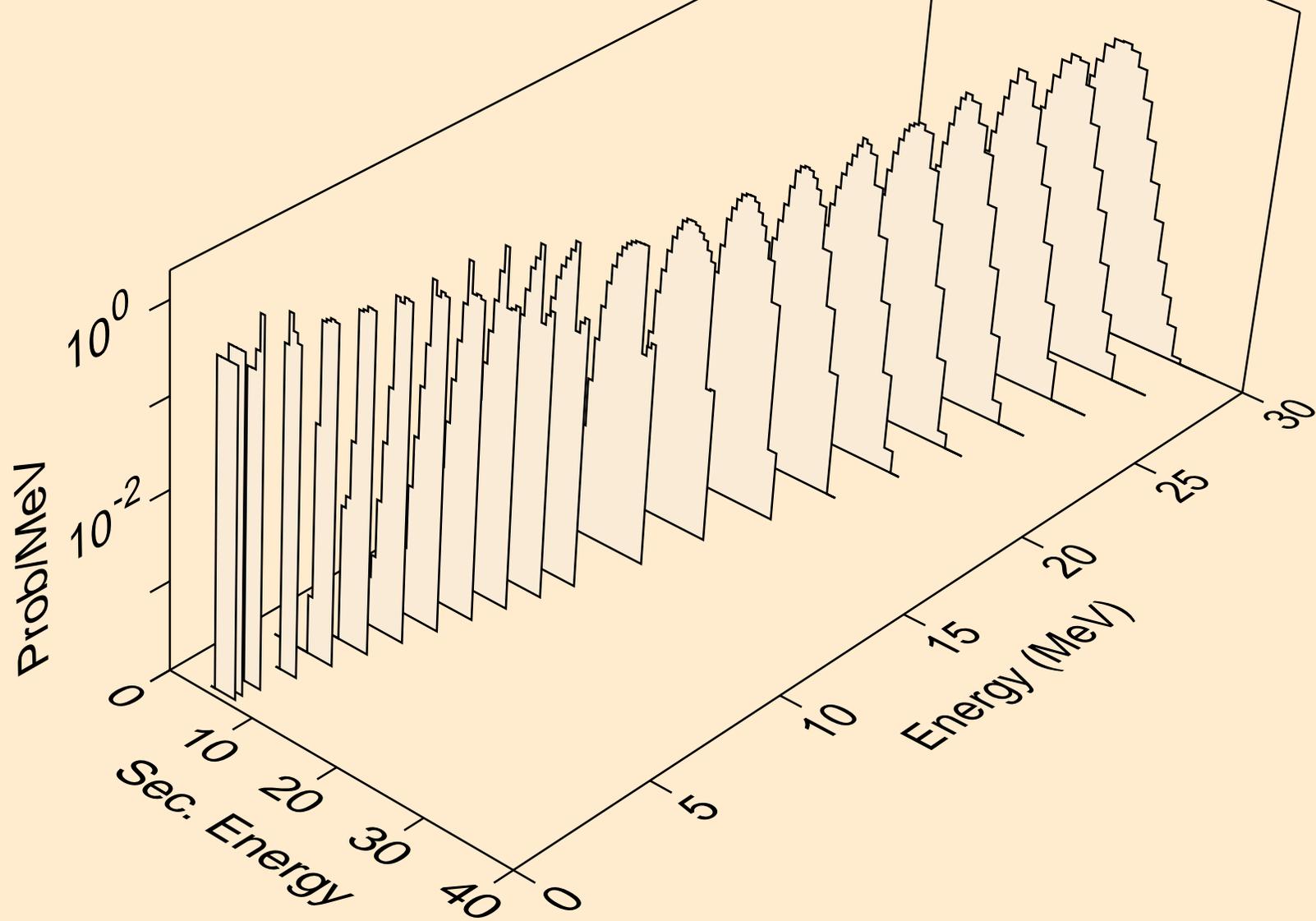alphas from (g,2n)a

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
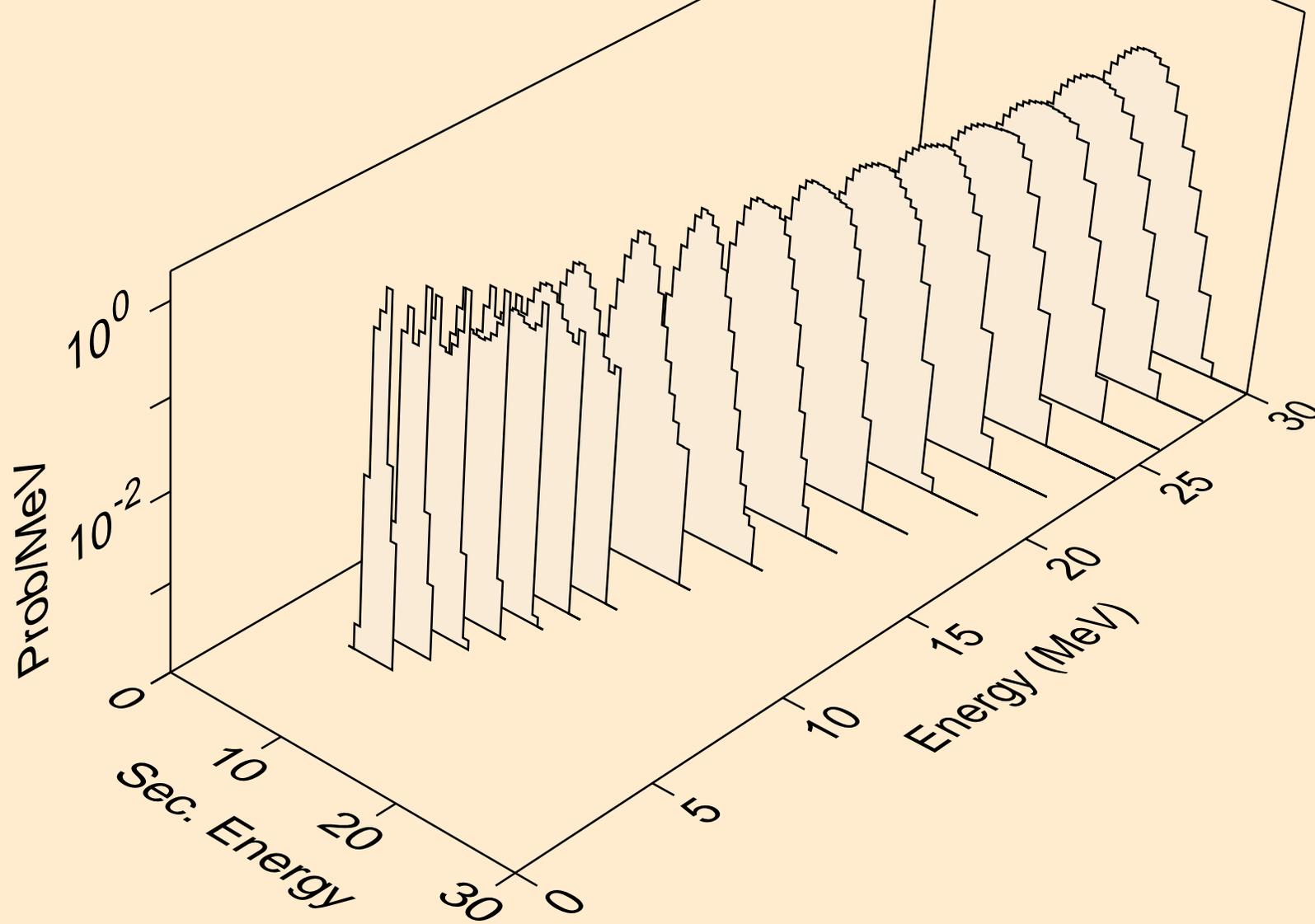alphas from (g,n*)2a

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (g,npa)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (g,a)

Prob/MeV

10^0

10^{-2}

Sec. Energy

0   10   20   30   40

Energy (MeV)

0   5   10   15   20   25   30

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (g,2a)

RN201 PHOTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (g,pa)