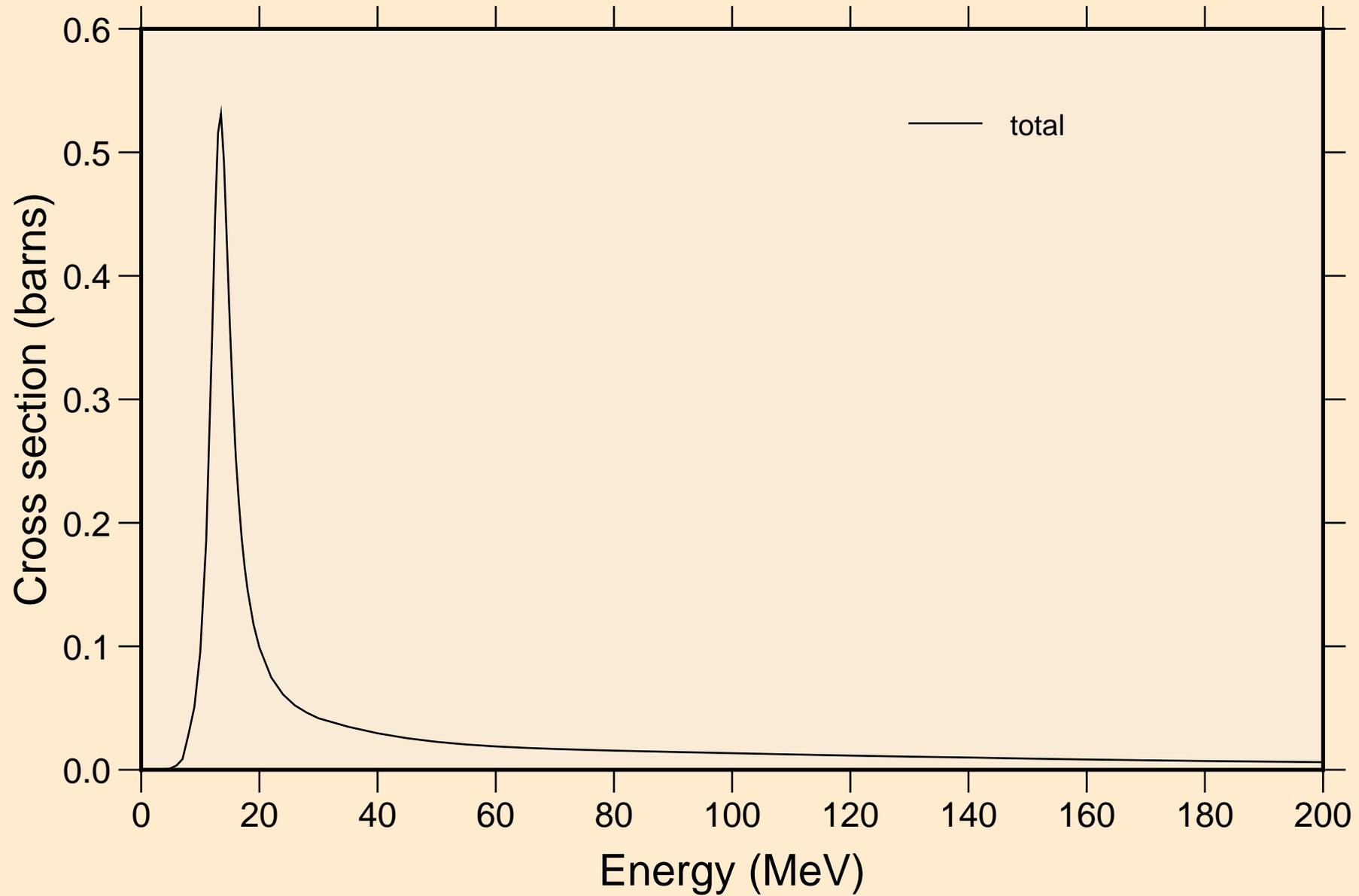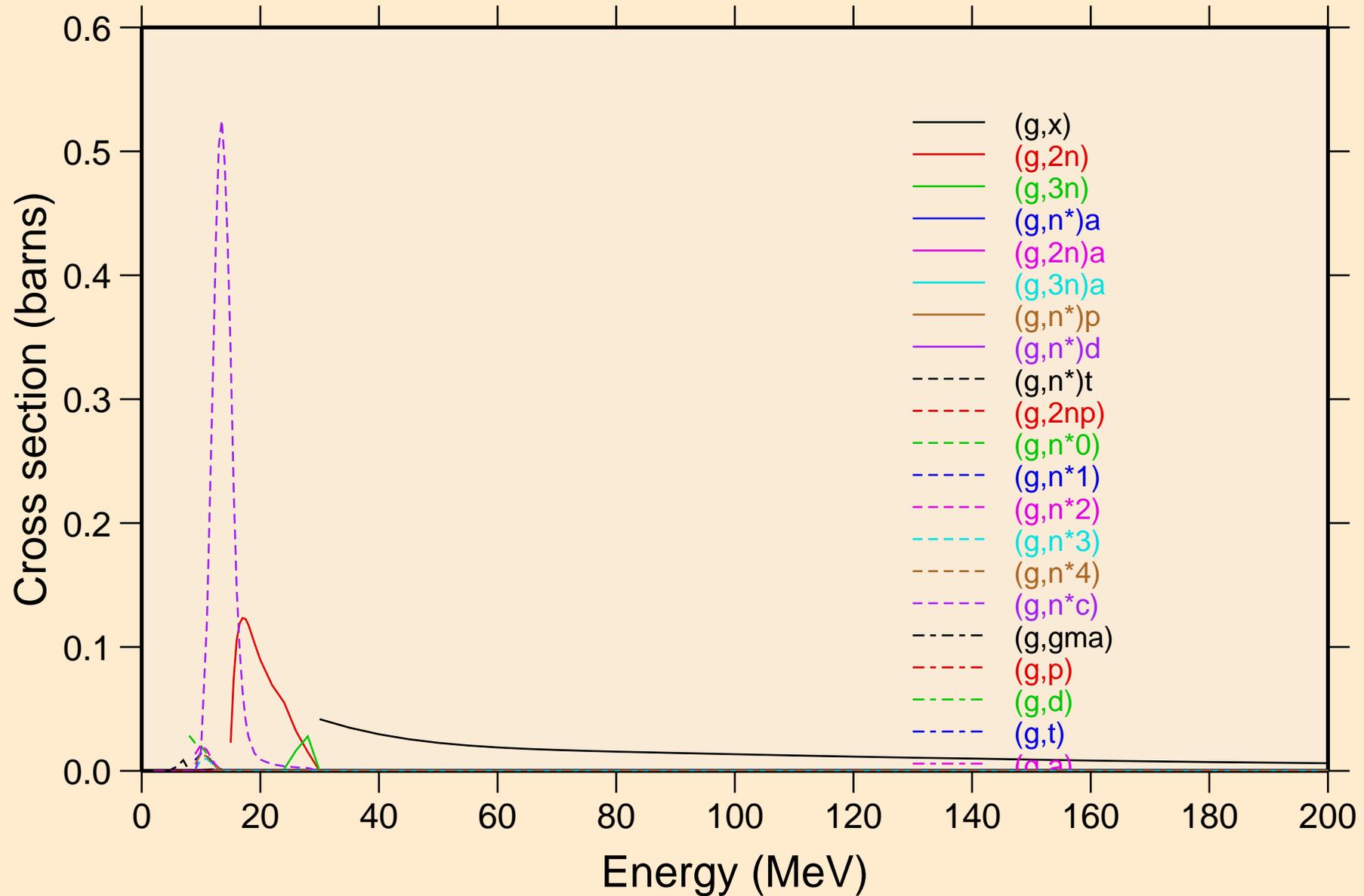PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections
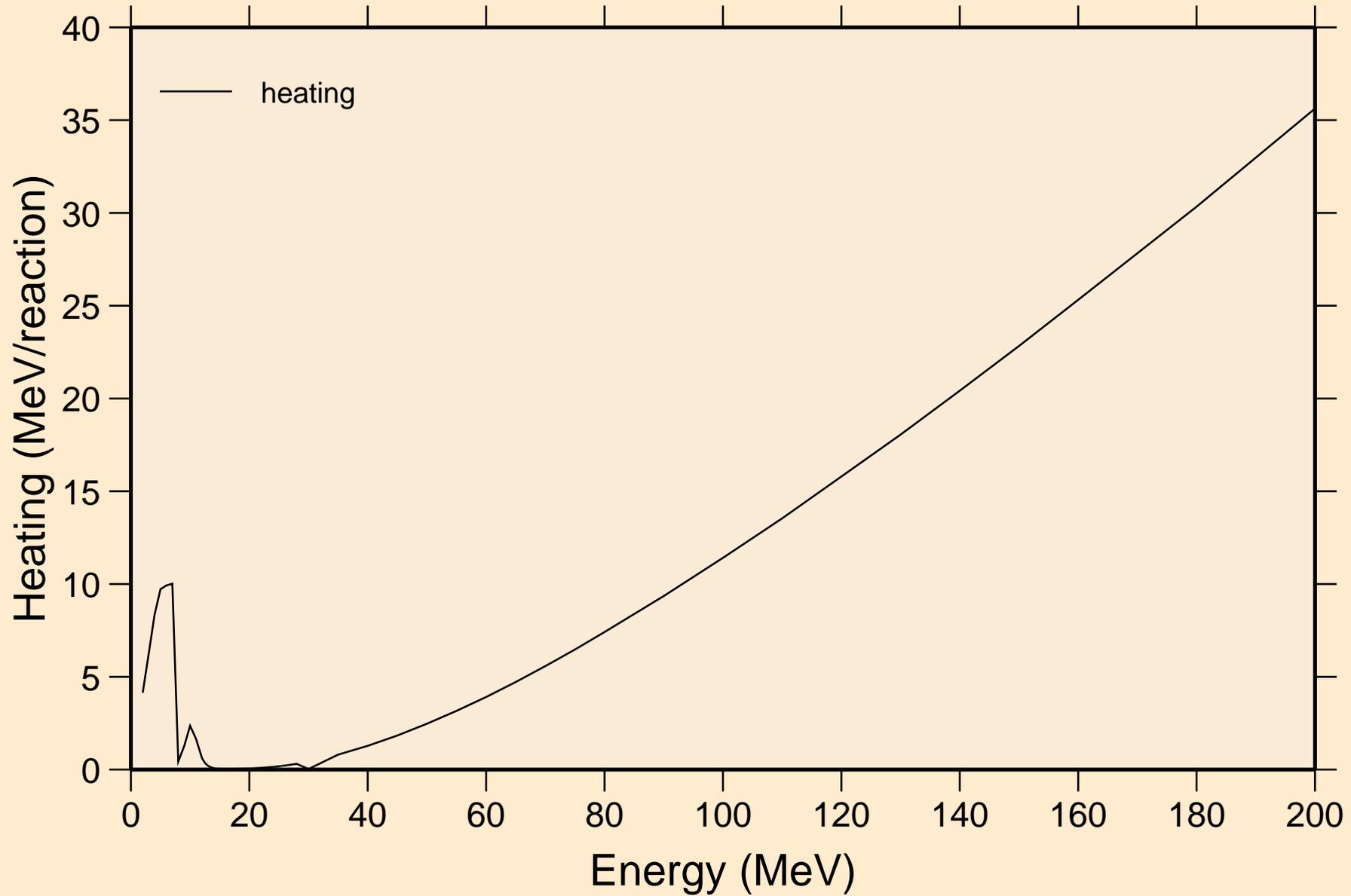
PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
Partial cross sections

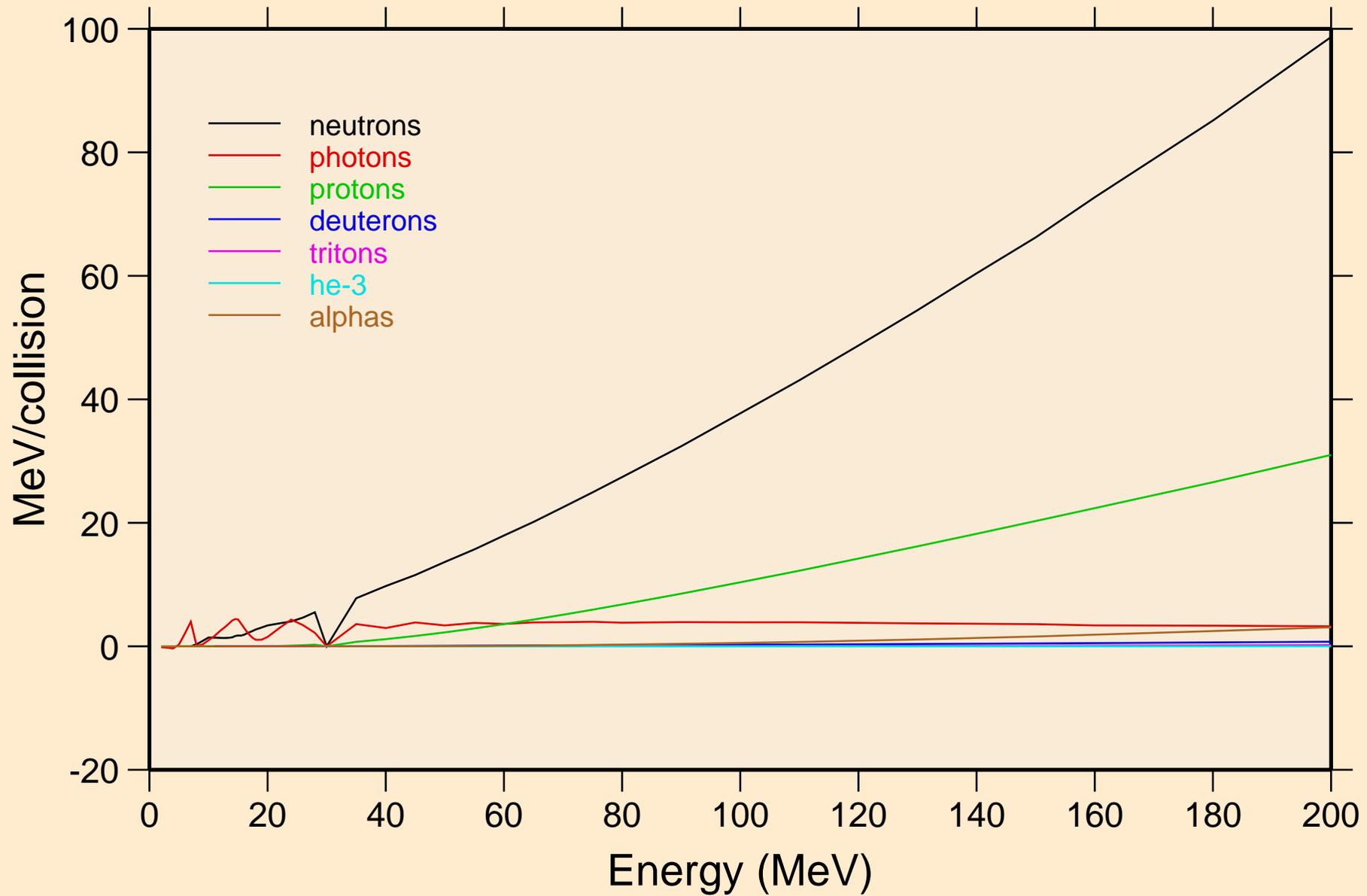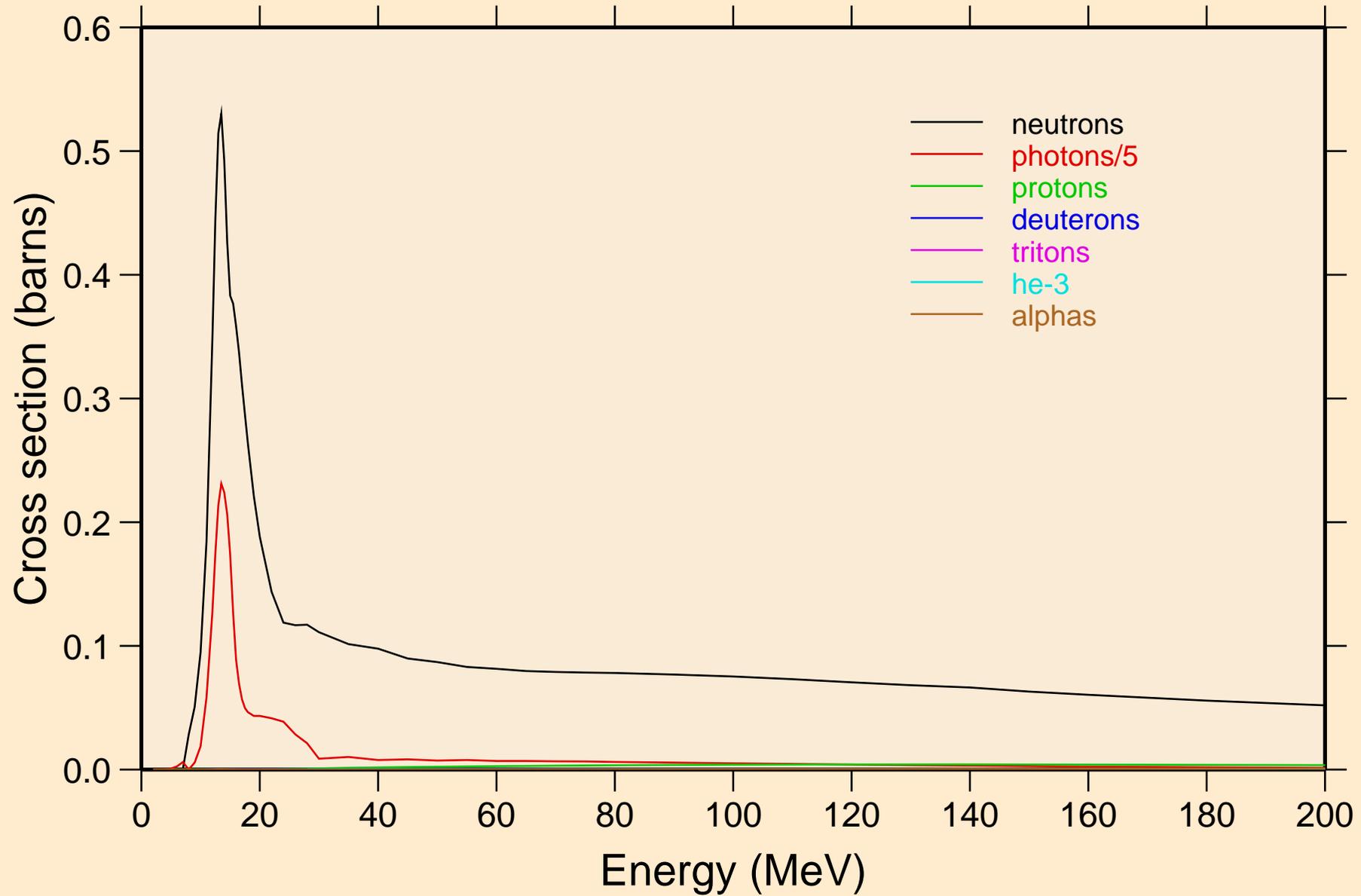Cross section (barns) vs Energy (MeV)

Legend:
- (g,x)
- (g,2n)
- (g,3n)
- (g,n*)a
- (g,2n)a
- (g,3n)a
- (g,n*)p
- (g,n*)d
- (g,n*)t
- (g,2np)
- (g,n*0)
- (g,n*1)
- (g,n*2)
- (g,n*3)
- (g,n*4)
- (g,n*c)
- (g,gma)
- (g,p)
- (g,d)
- (g,t)
- (g,a)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
Heating

heating

Heating (MeV/reaction)

Energy (MeV)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
Particle heating contributions

neutrons
photons
protons
deuterons
tritons
he-3
alphas

MeV/collision

Energy (MeV)
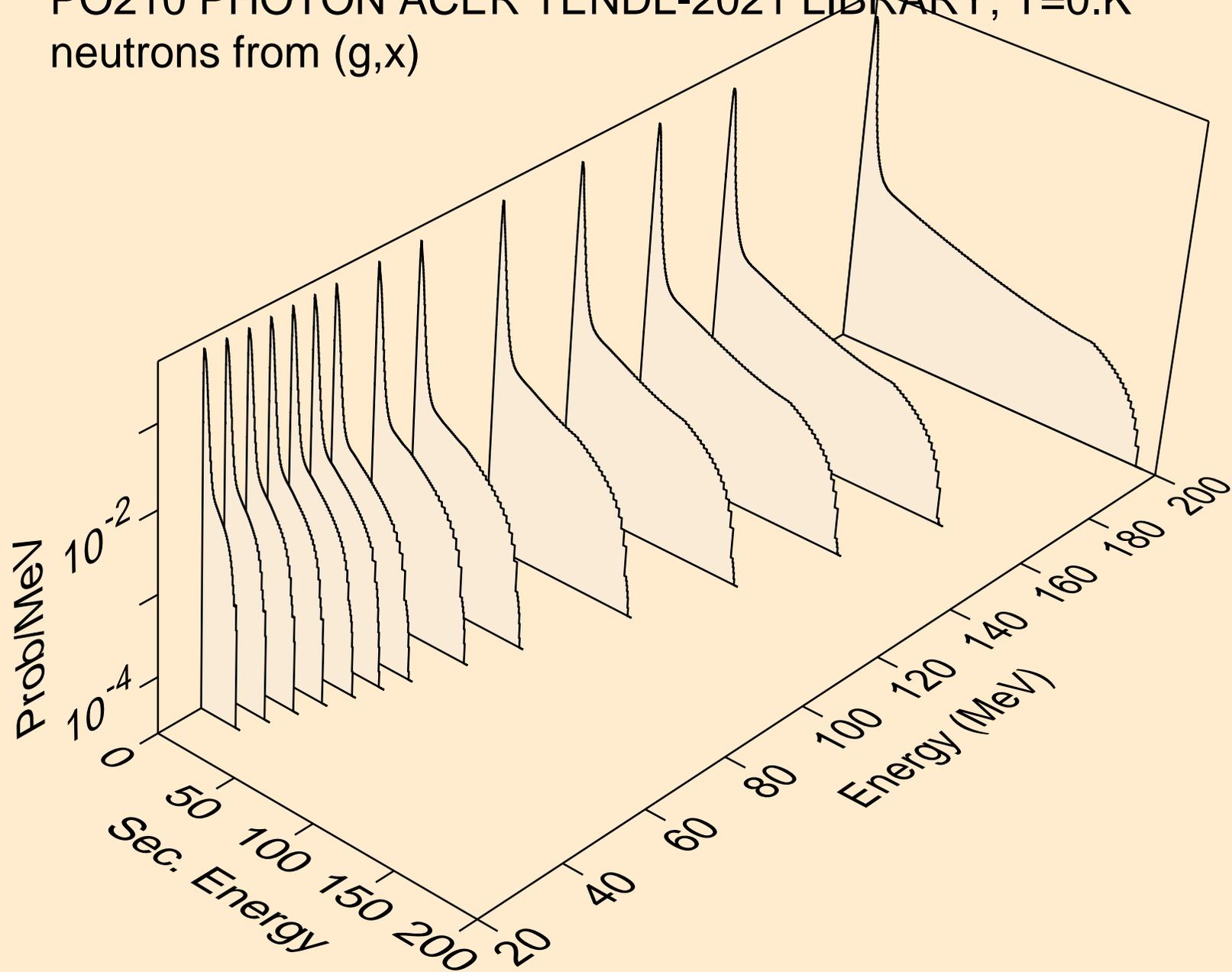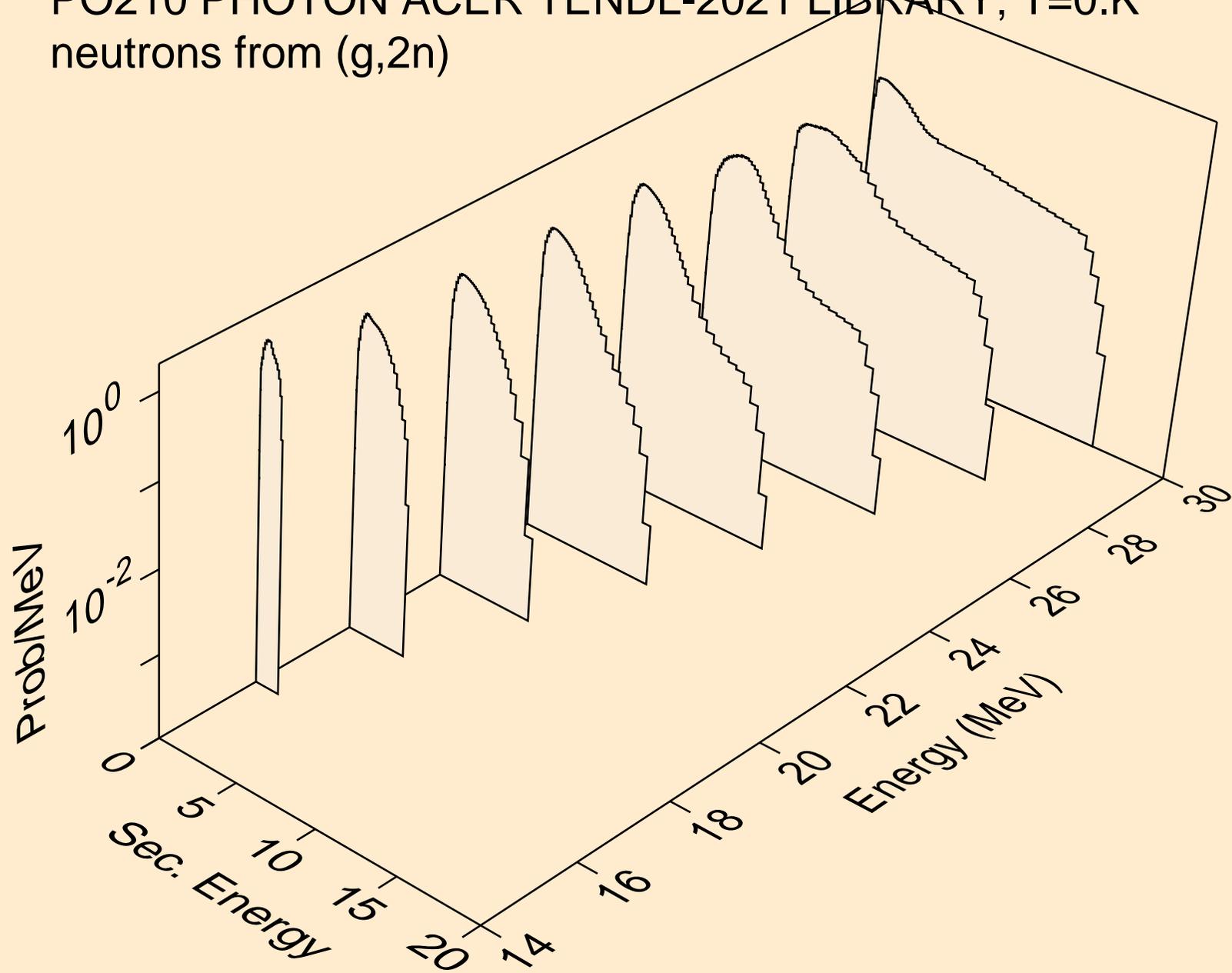
PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
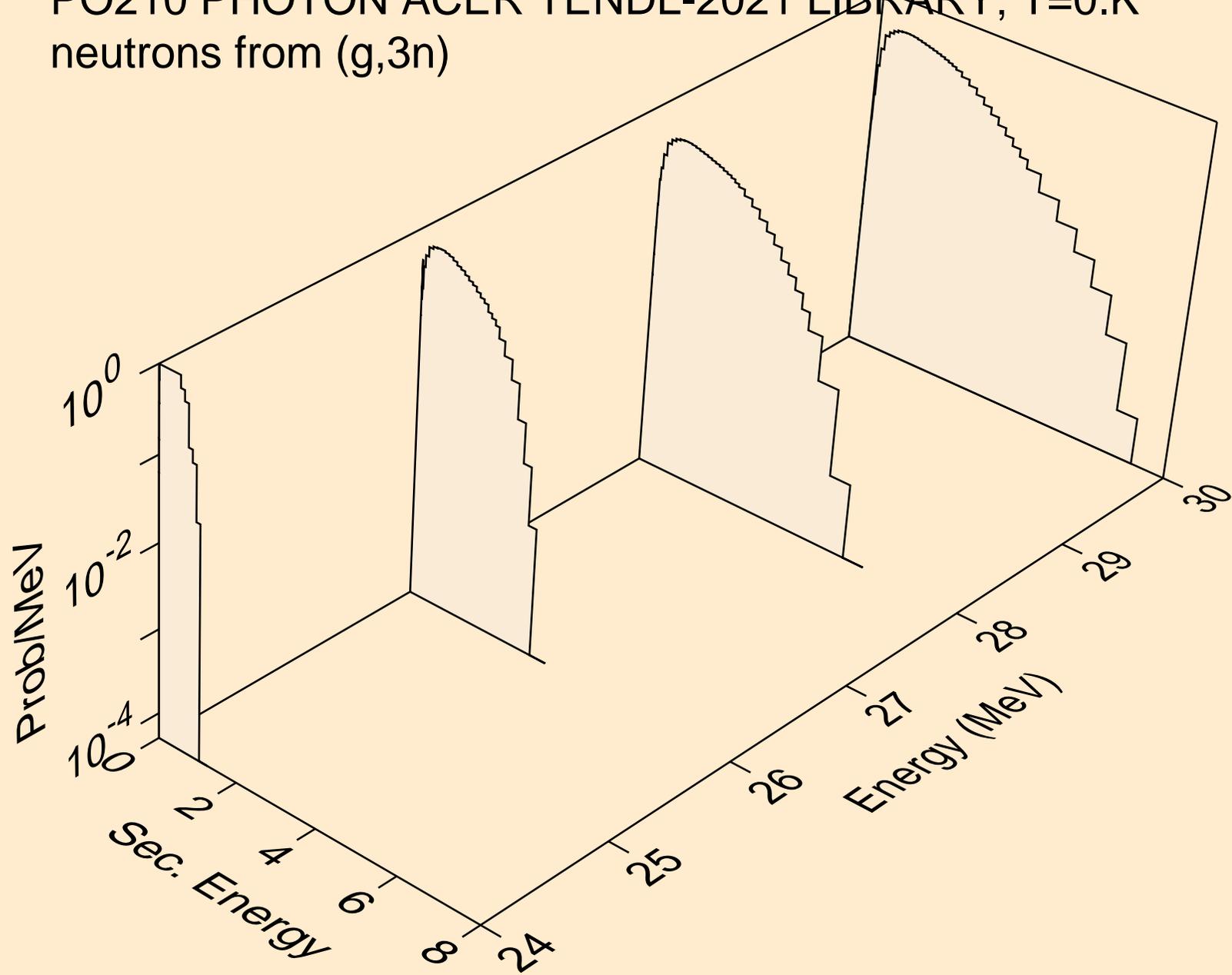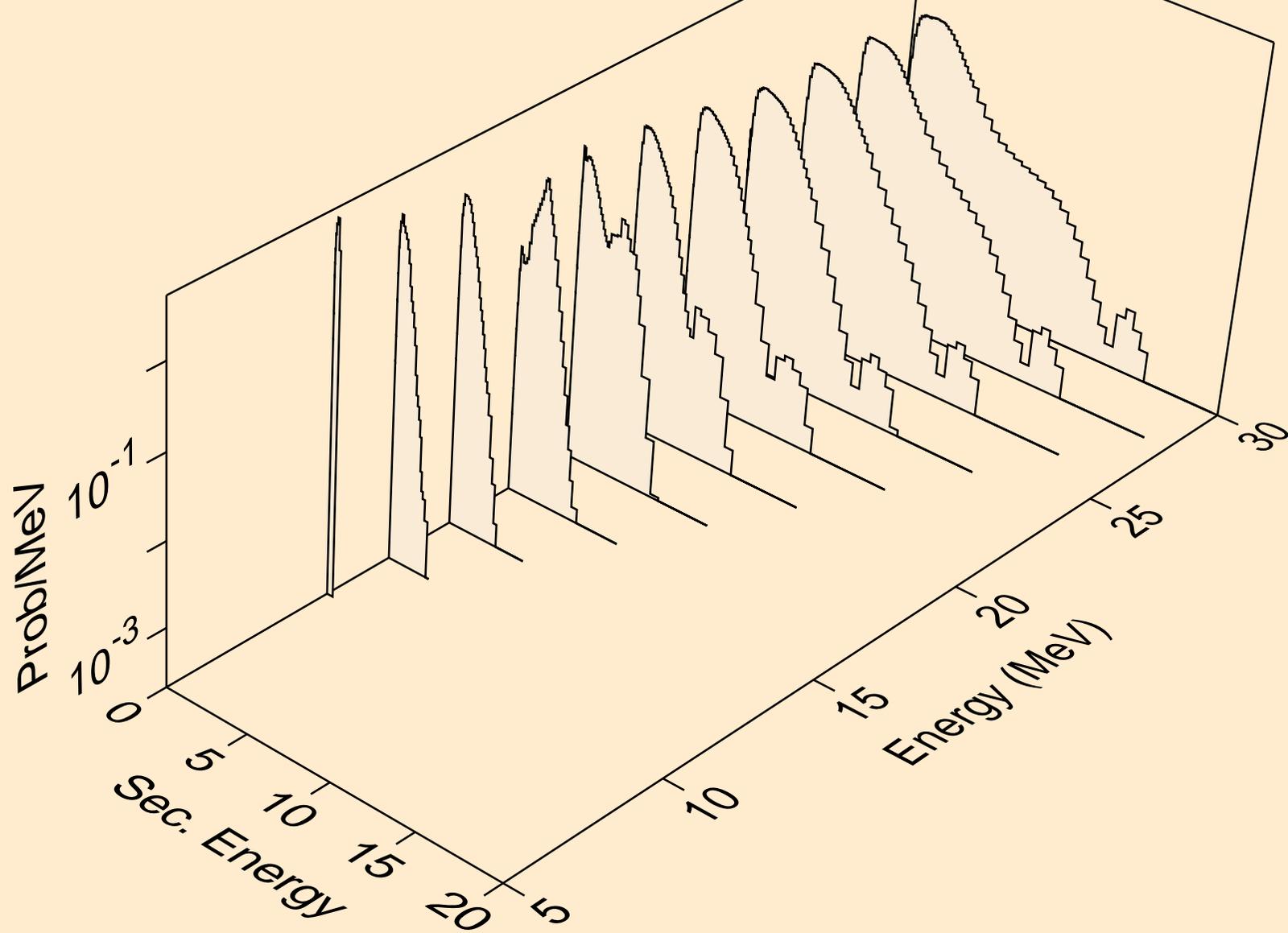Particle production cross sections

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (g,x)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
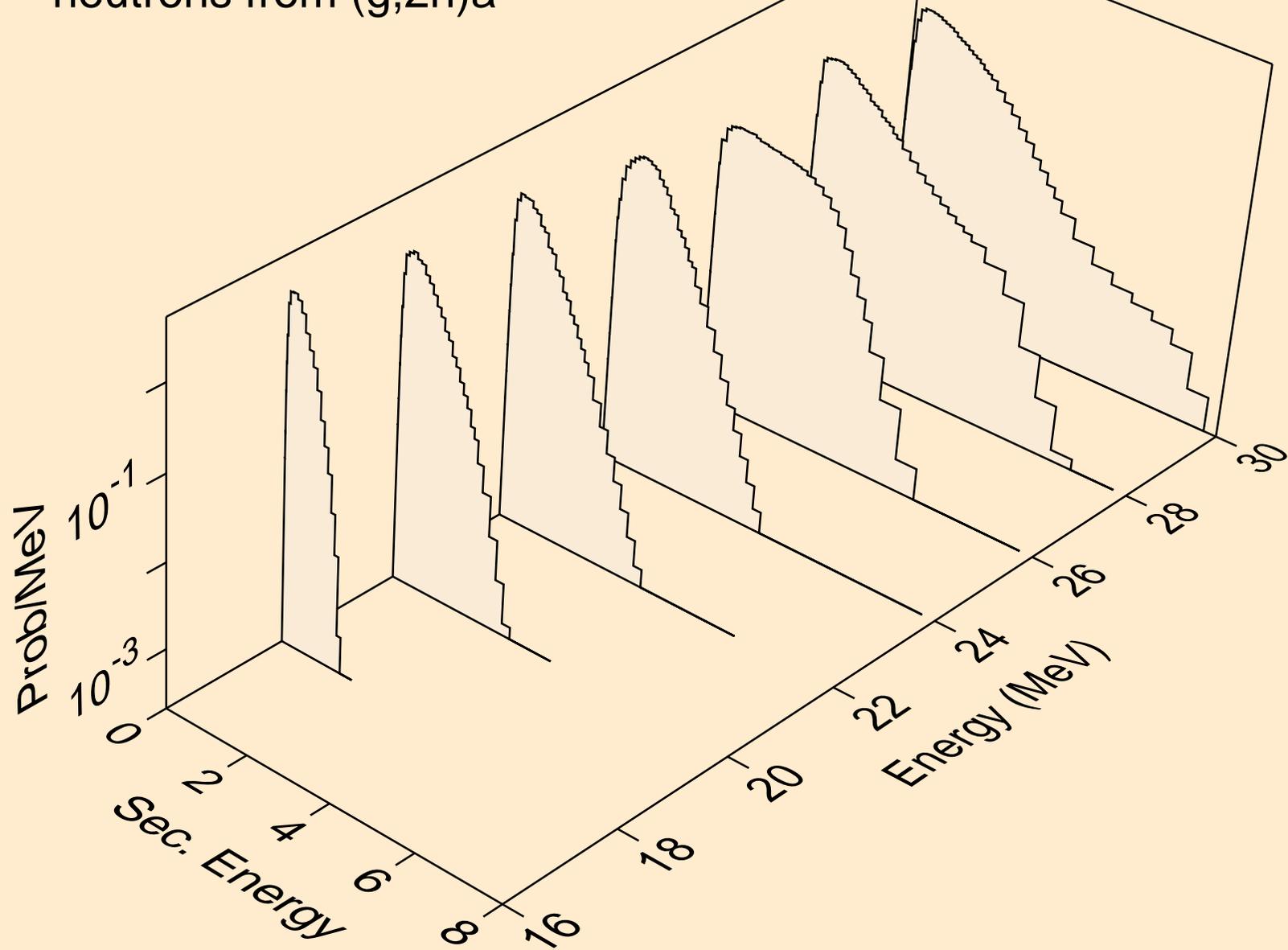neutrons from (g,2n)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (g,3n)

Prob/MeV

10^0

10^{-2}

10^{-4}

Sec. Energy

2

4

6

8

Energy (MeV)

24

25

26

27

28

29

30

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (g,n*)a

Prob/MeV

10^{-1}

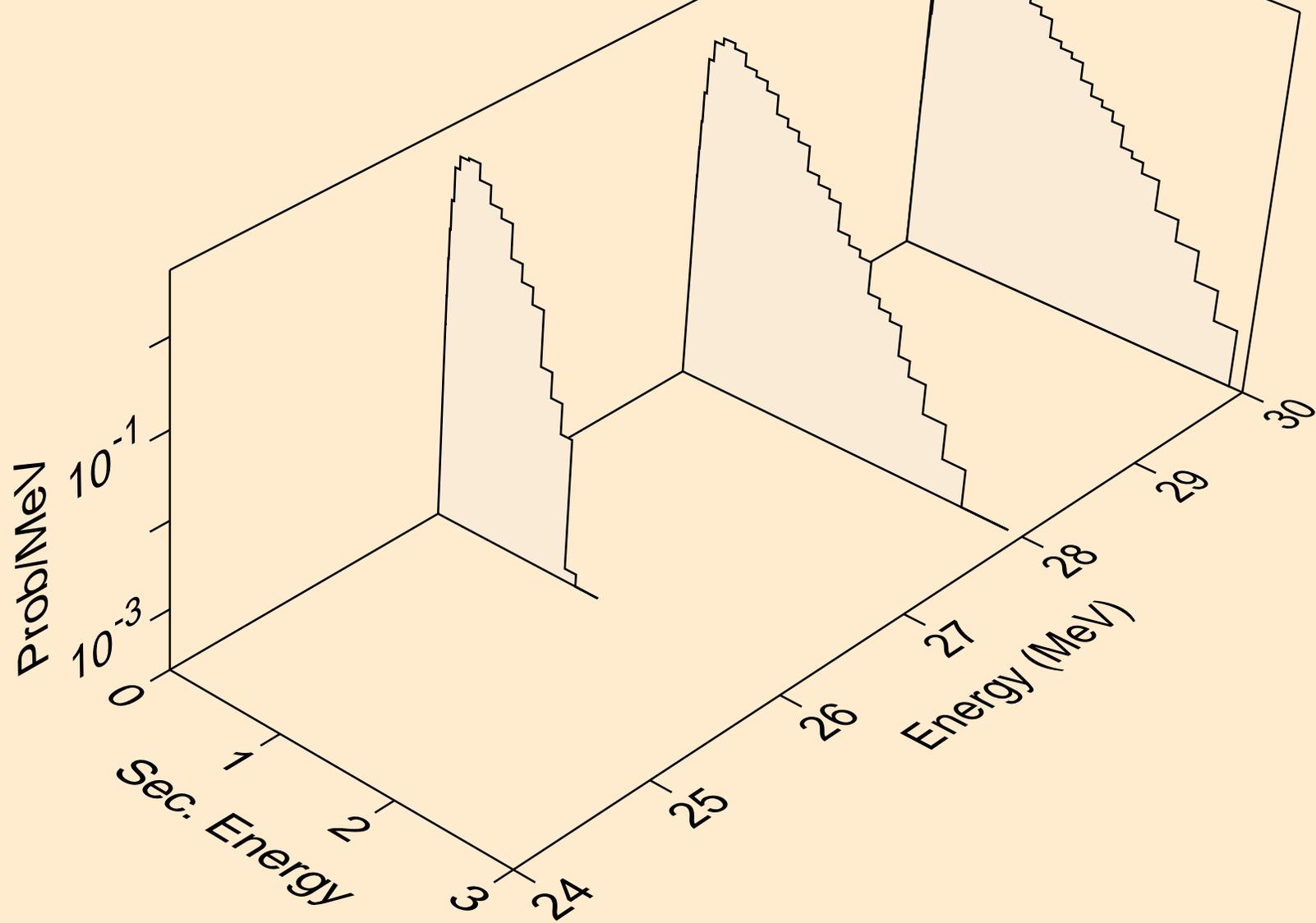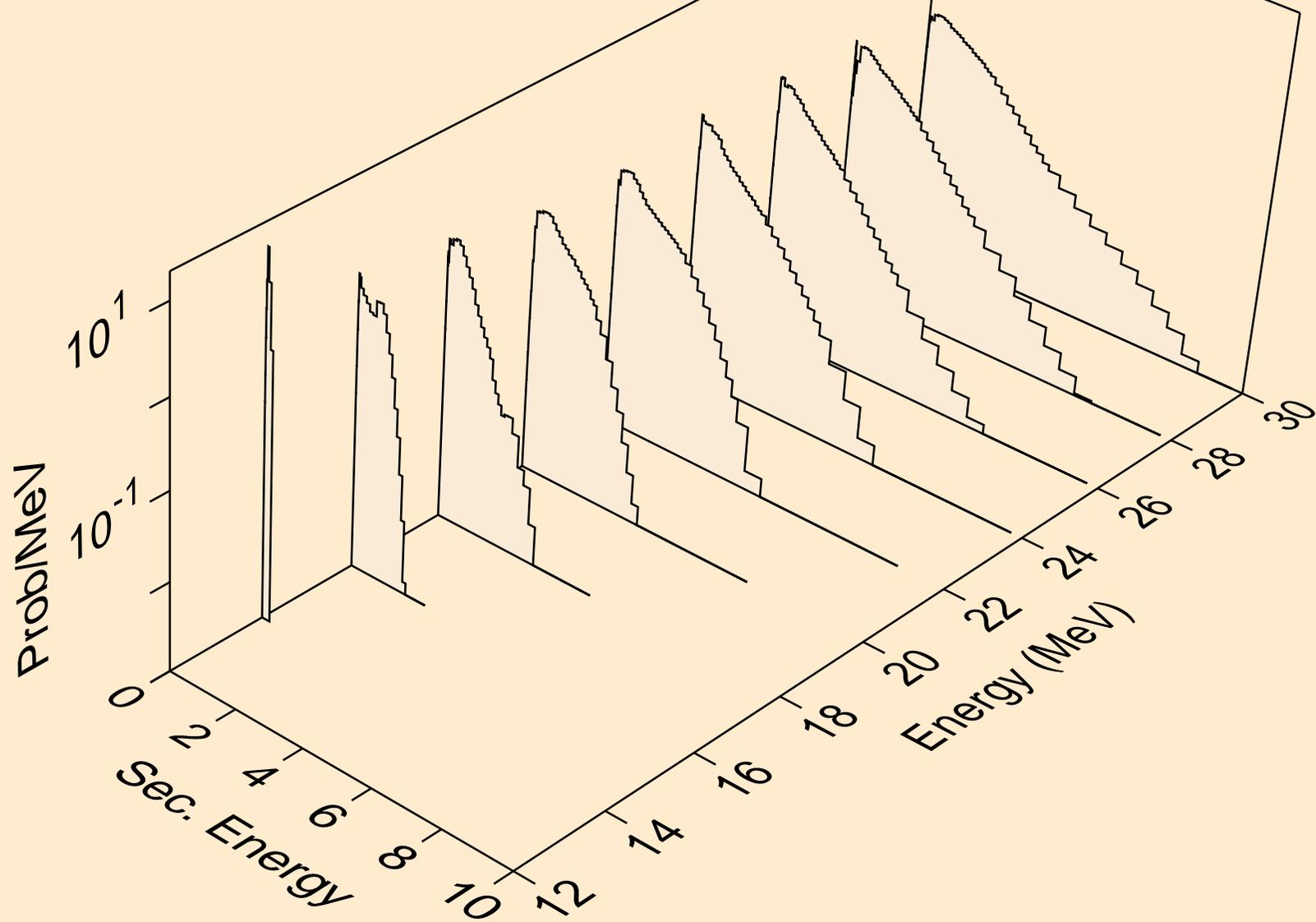10^{-3}

Sec. Energy

Energy (MeV)

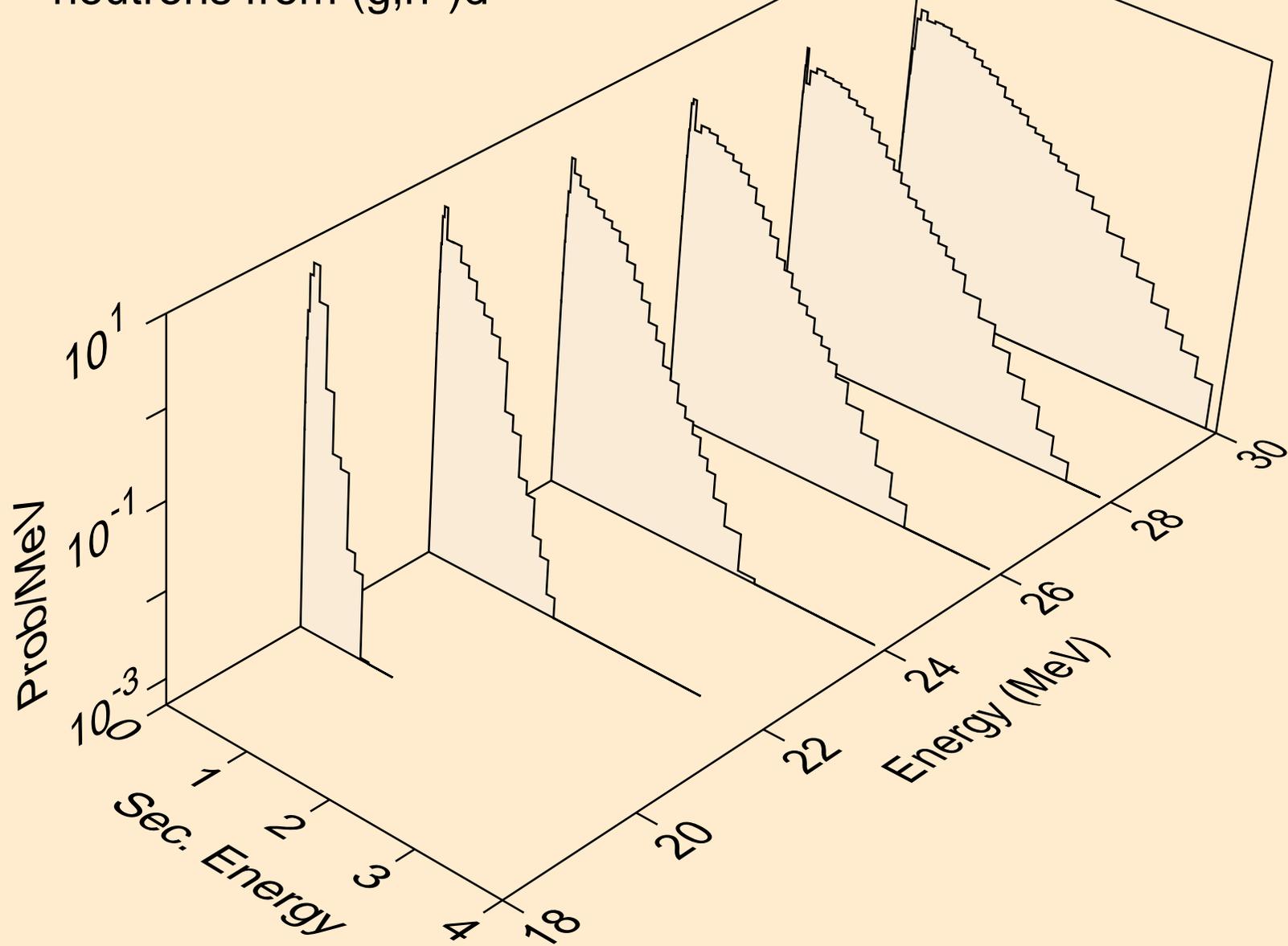PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (g,2n)a

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
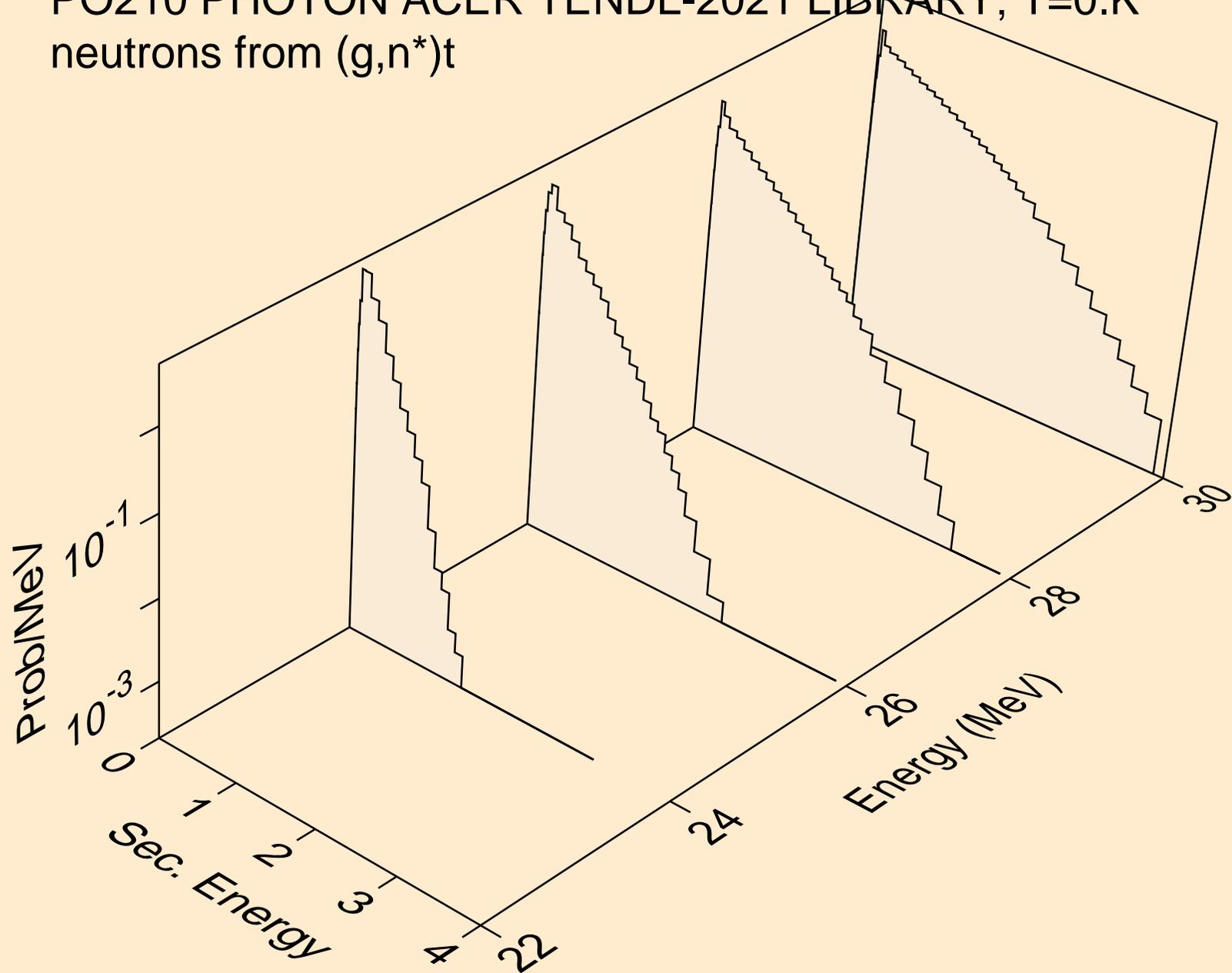neutrons from (g,3n)a

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
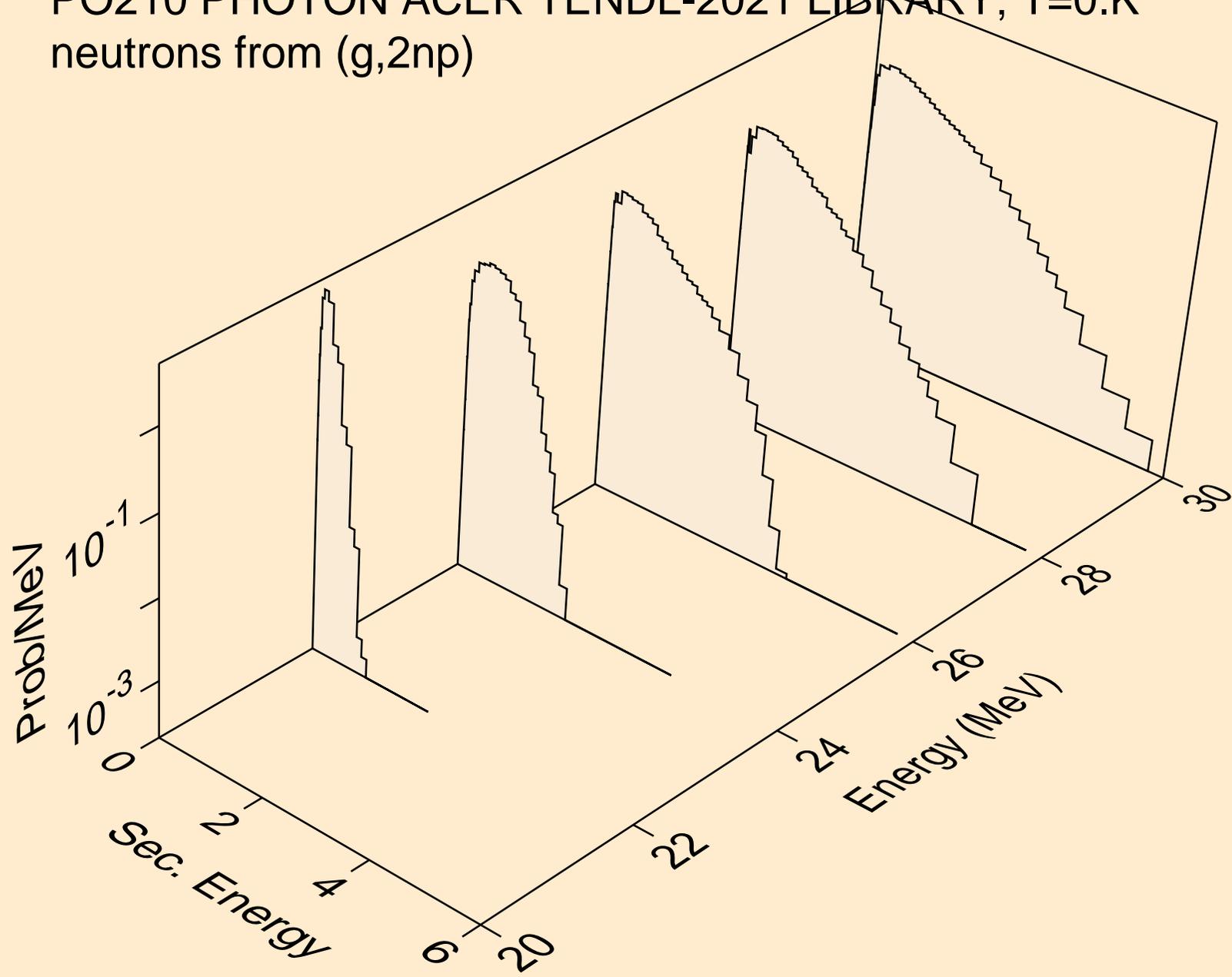neutrons from (g,n*)p

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
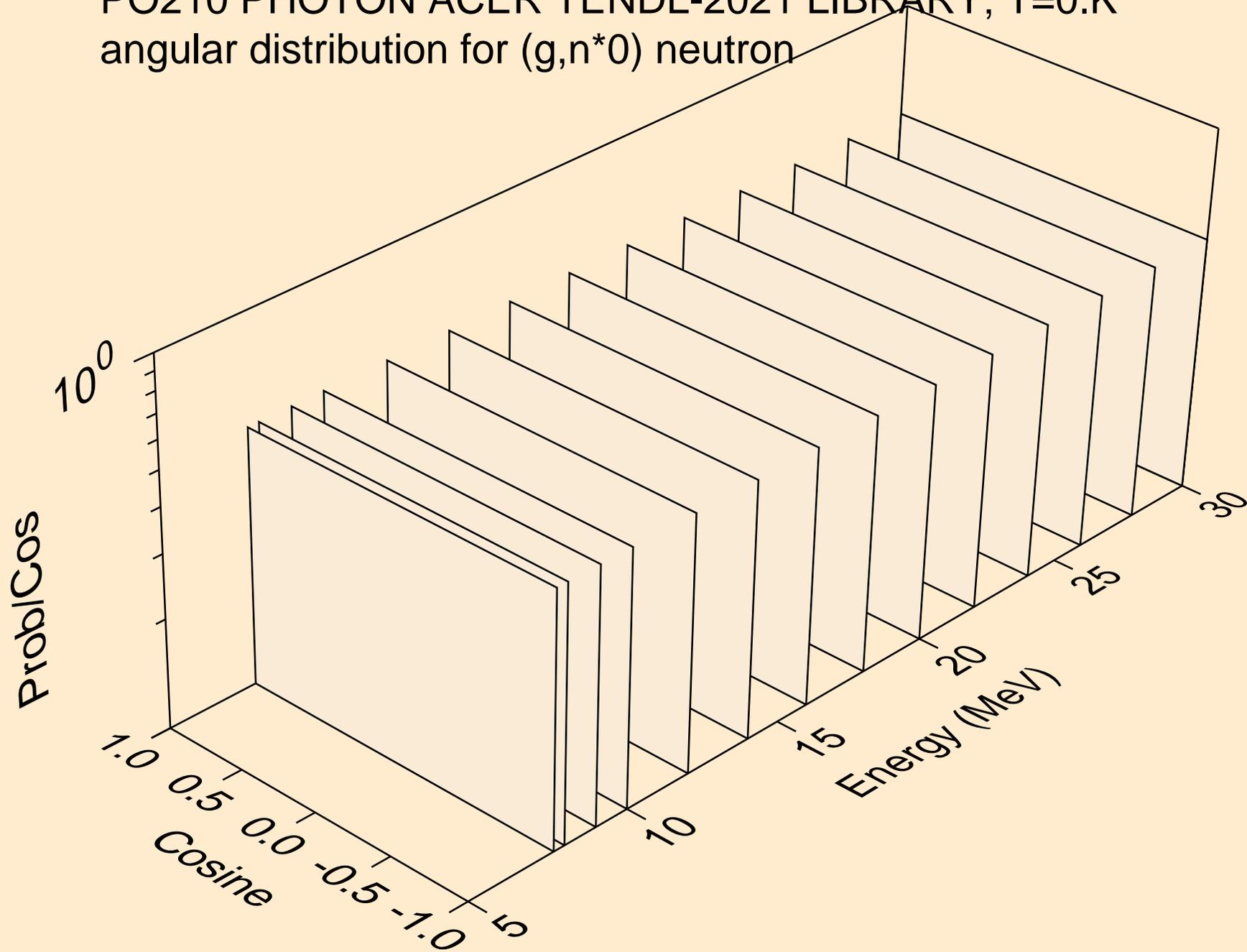neutrons from (g,n*)d

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
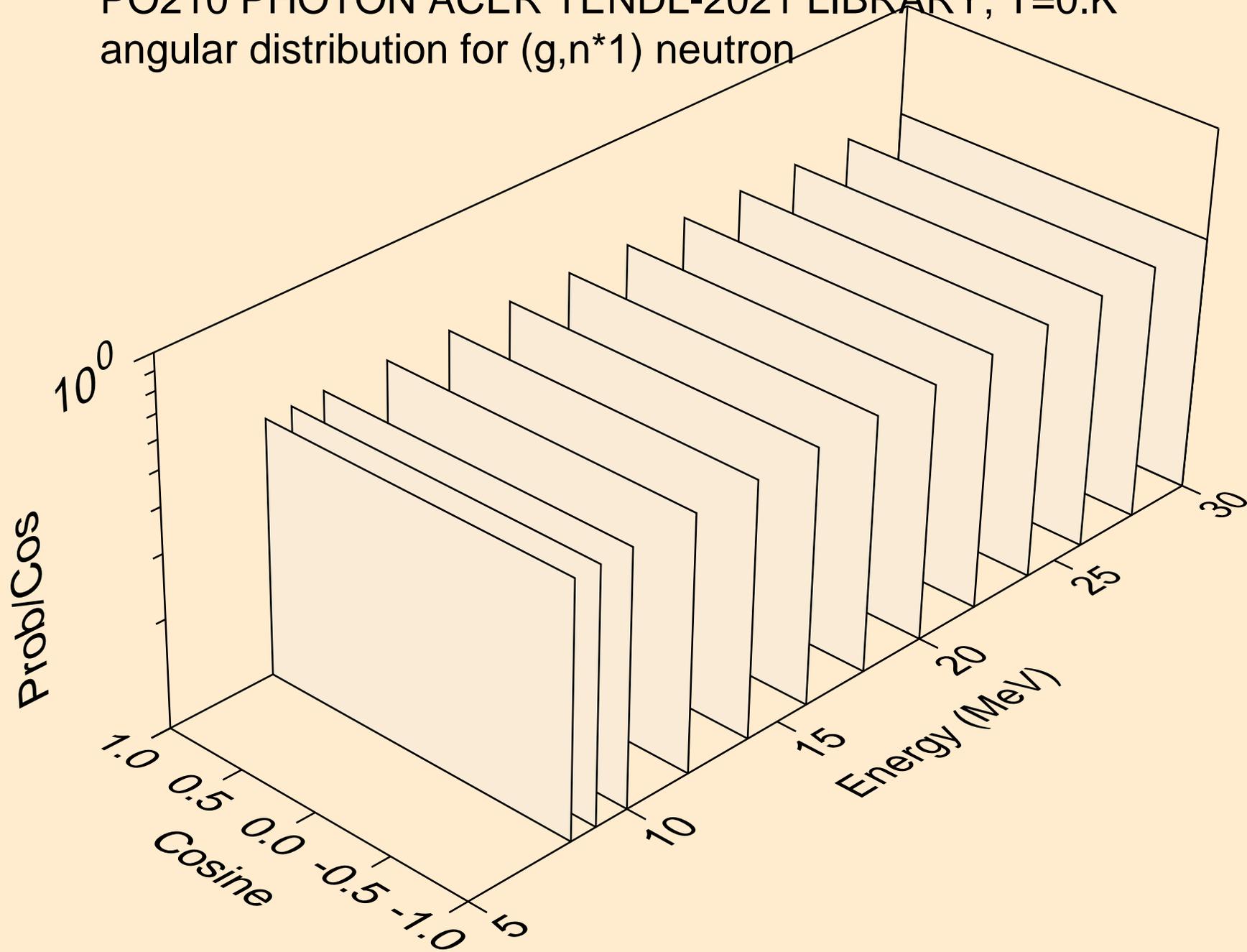neutrons from (g,n*)t

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
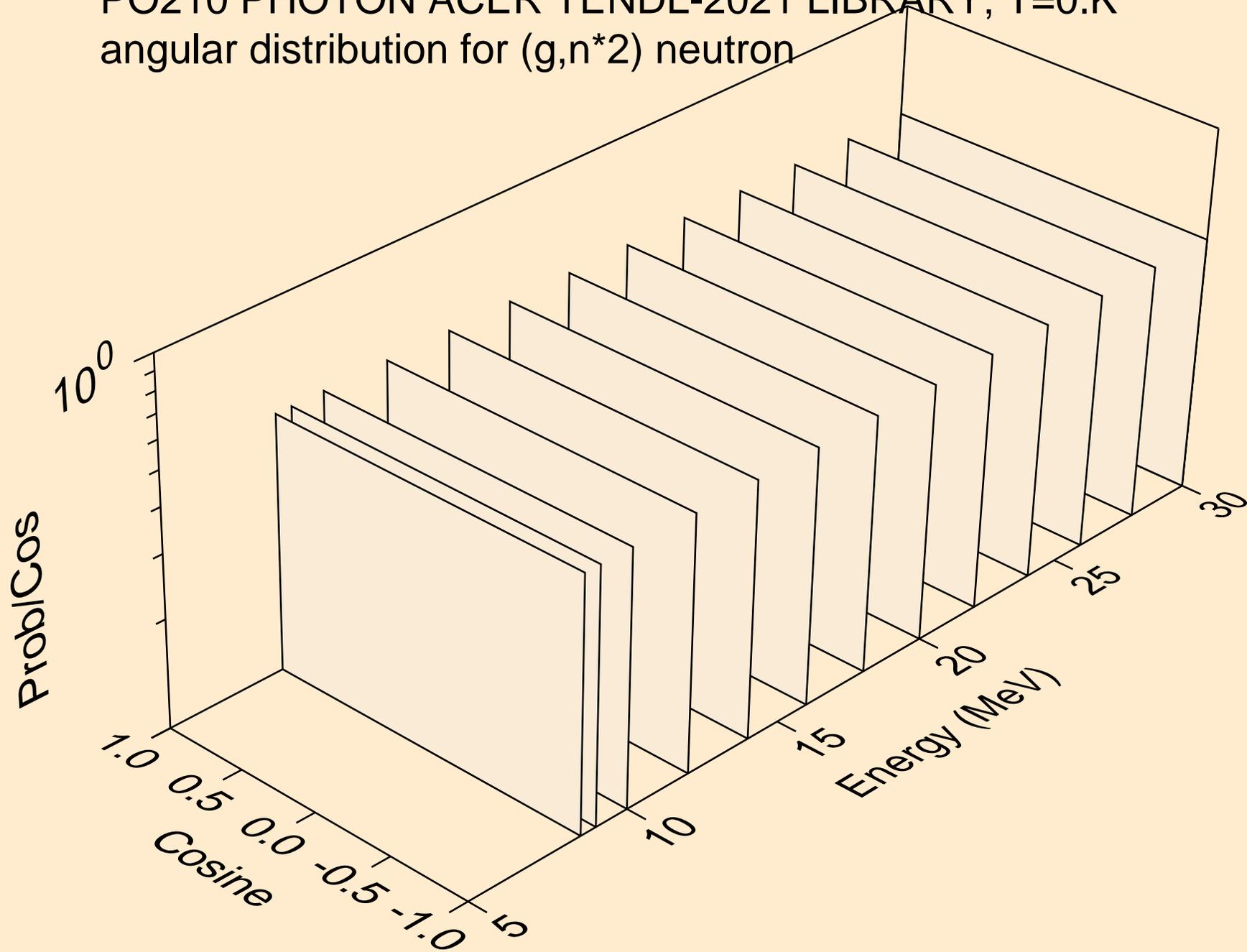neutrons from (g,2np)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
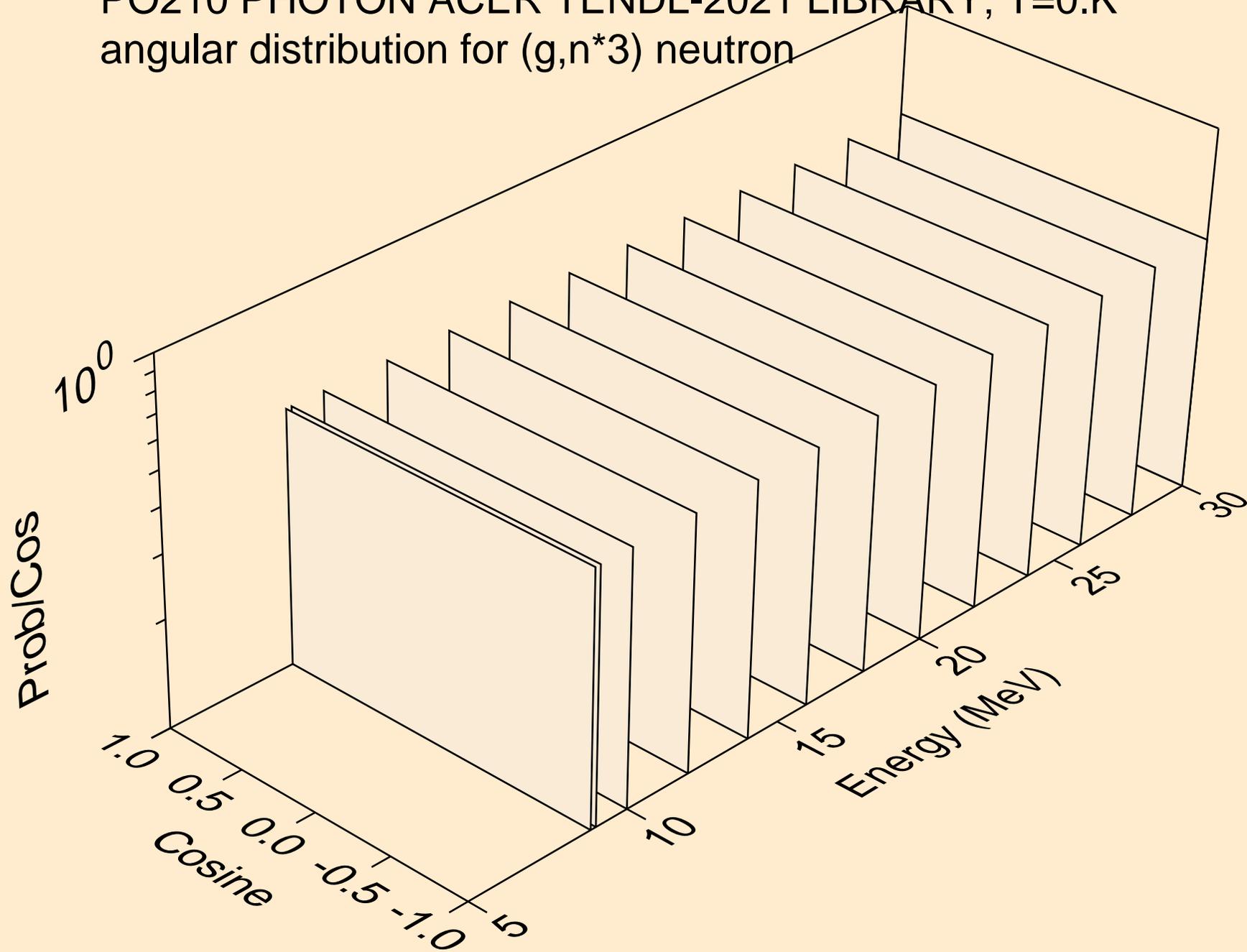angular distribution for (g,n*0) neutron

ProbICos

10^0

Cosine

1.0 0.5 0.0 -0.5 -1.0

5 10 15 20 25 30

Energy (MeV)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
angular distribution for (g,n*1) neutron
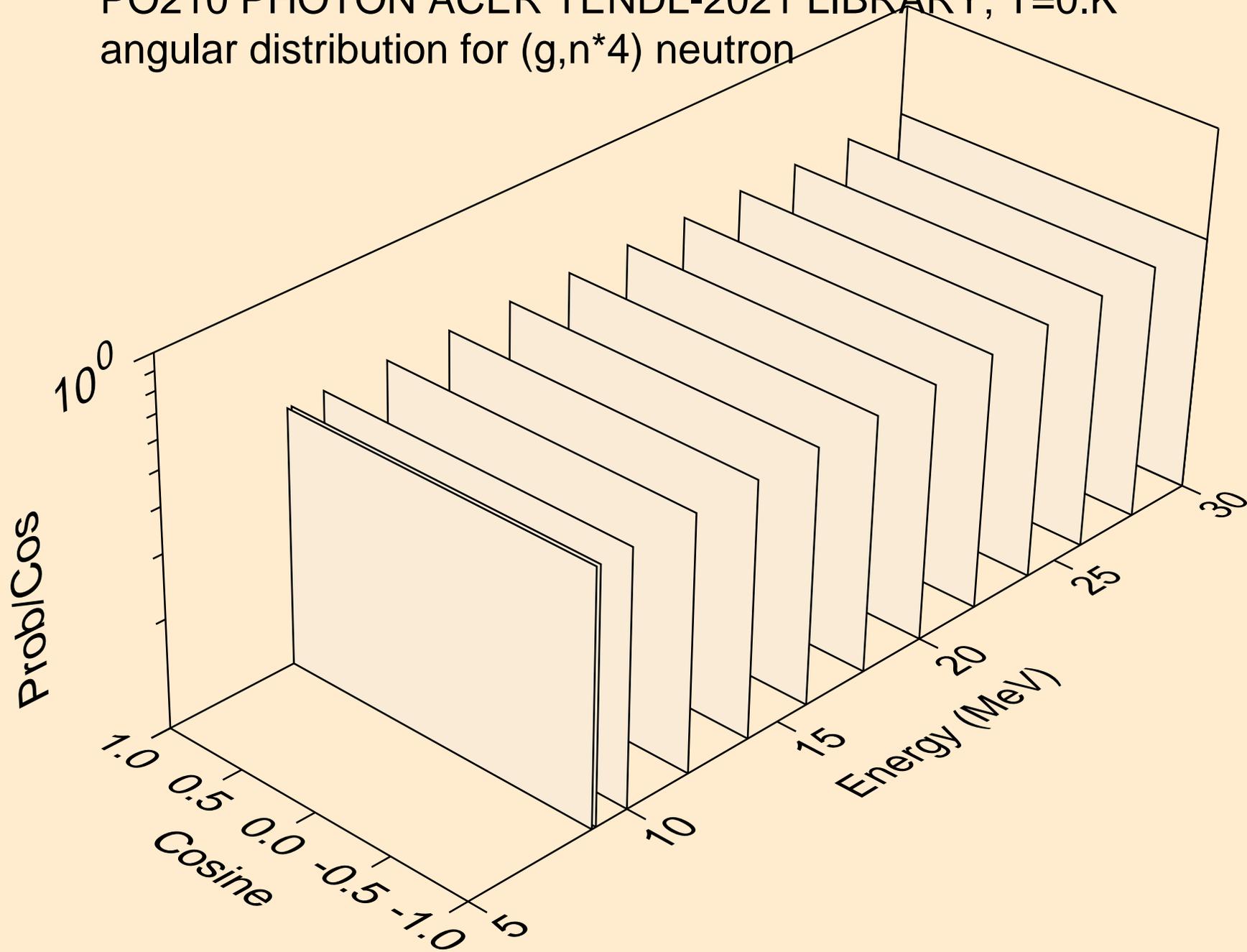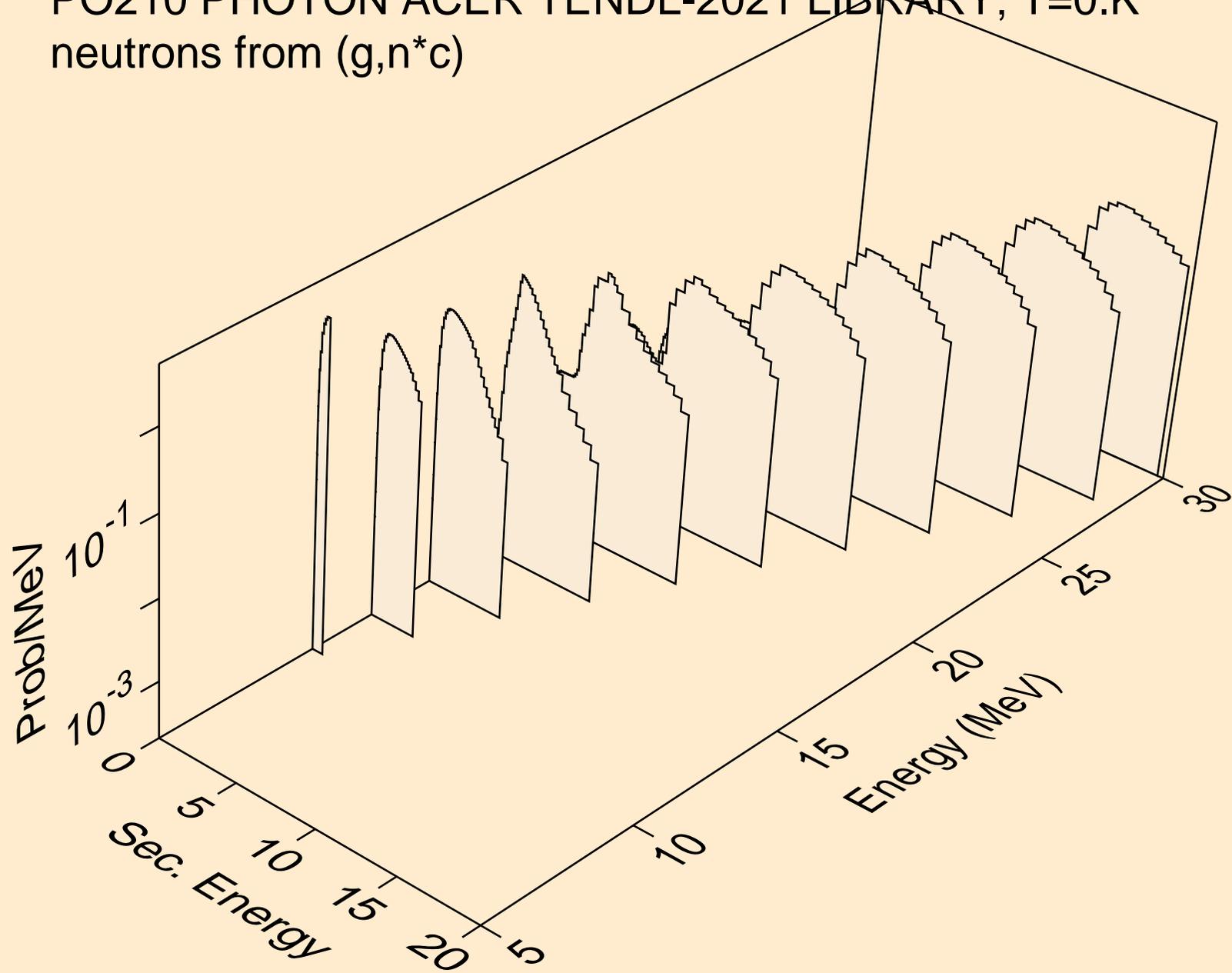
ProbICos

Cosine

Energy (MeV)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
angular distribution for (g,n*2) neutron

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
angular distribution for (g,n*3) neutron

ProblCos

10^0

Cosine

1.0   0.5   0.0   -0.5   -1.0

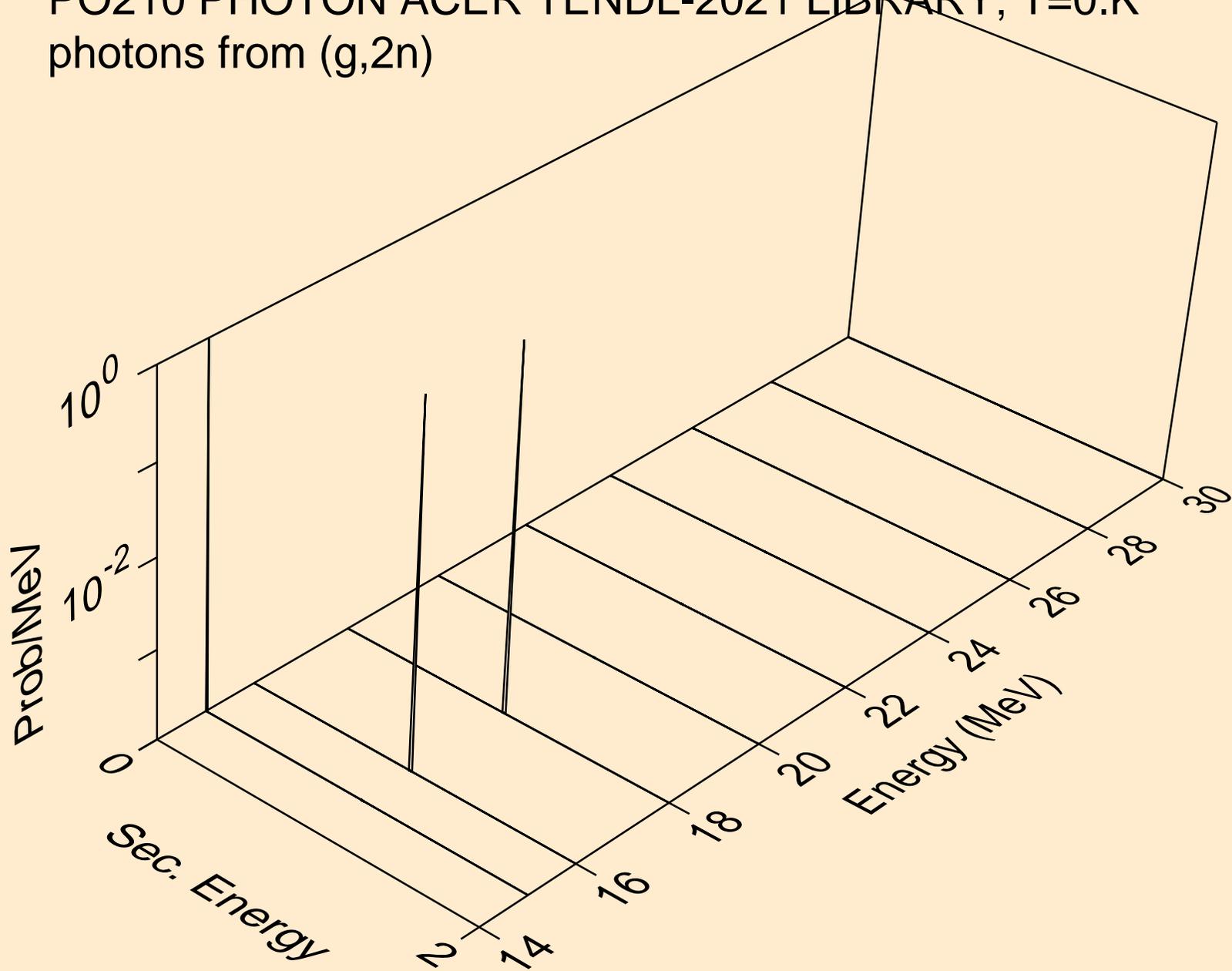Energy (MeV)

5   10   15   20   25   30

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
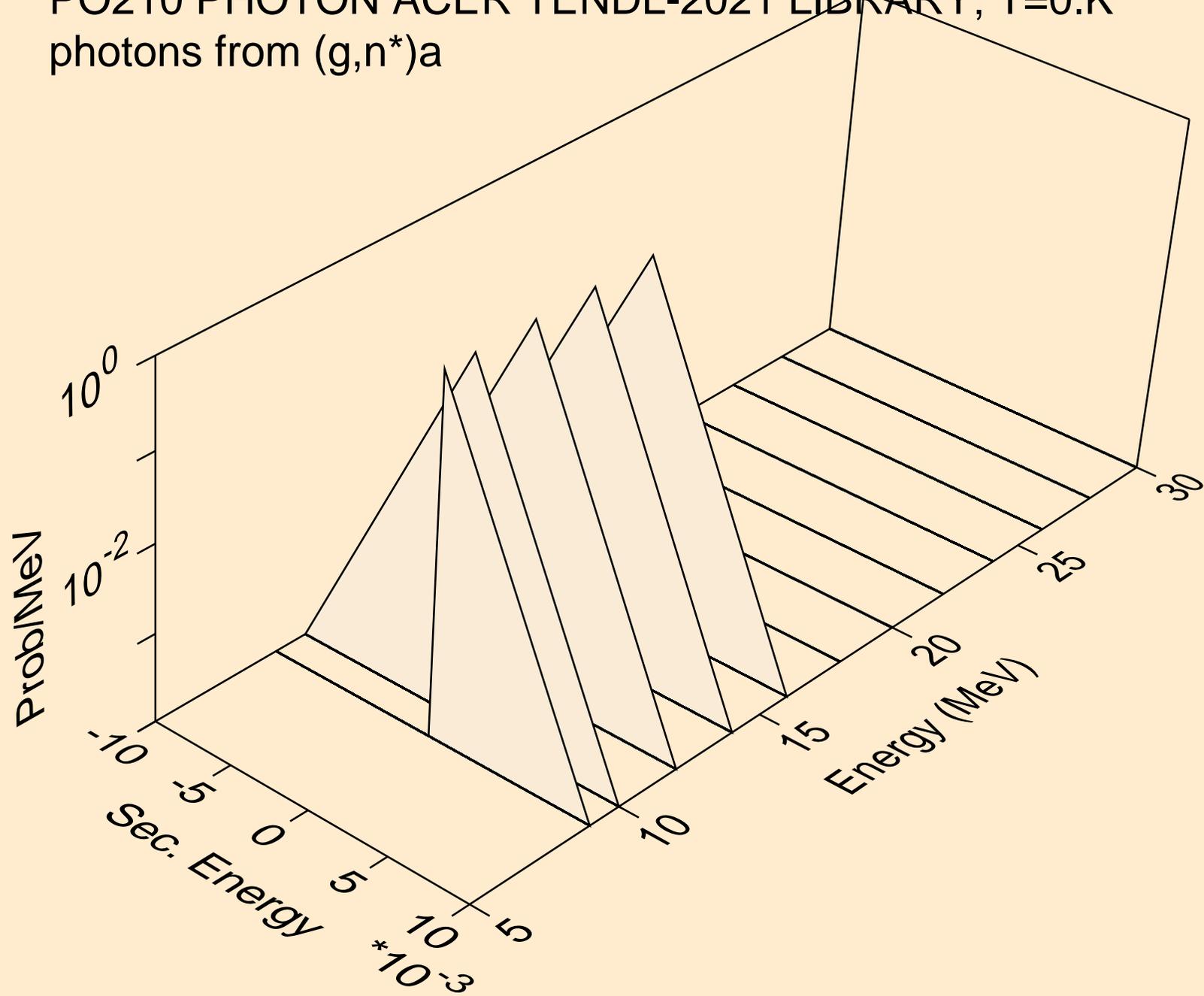angular distribution for (g,n*4) neutron

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
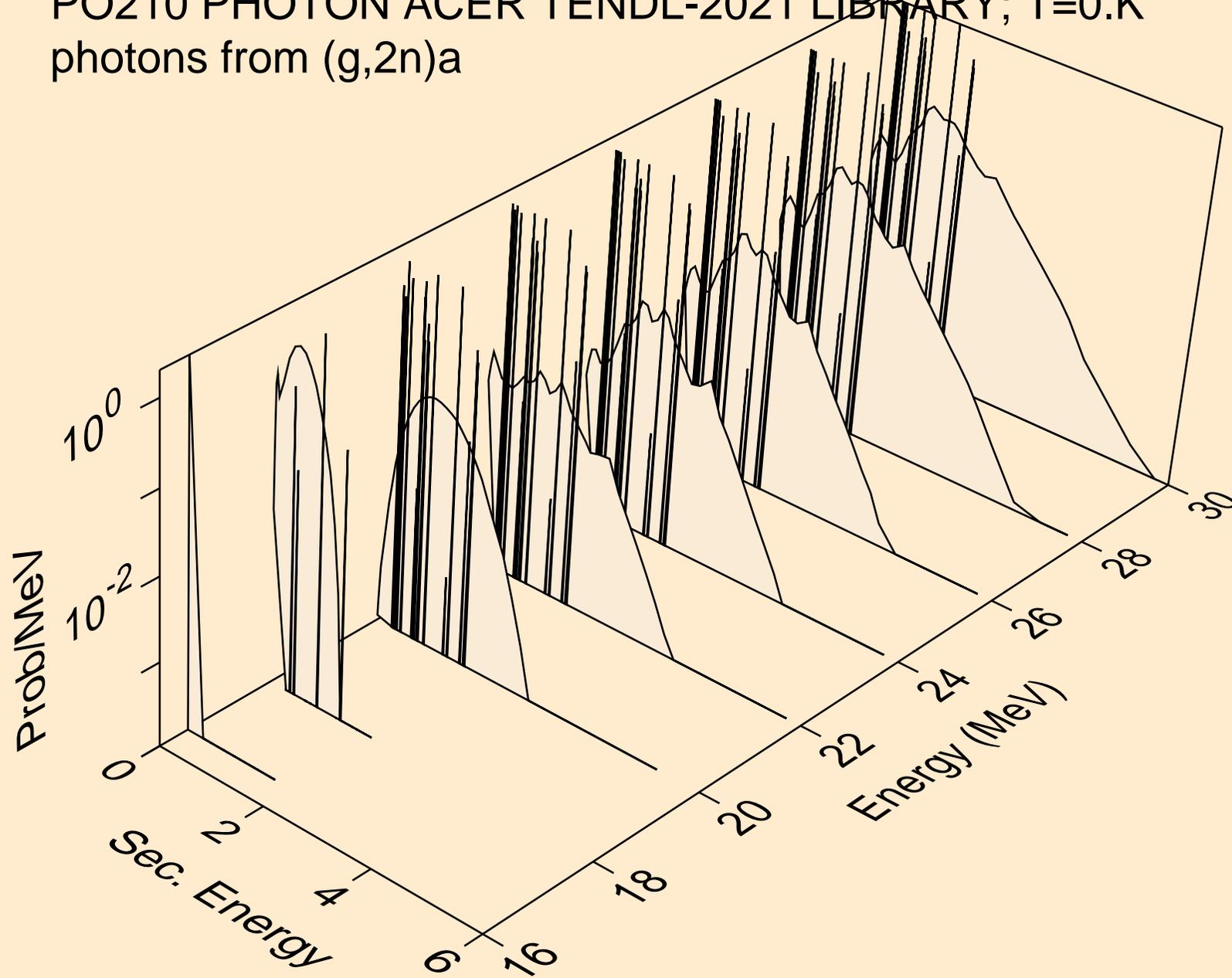neutrons from (g,n*c)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
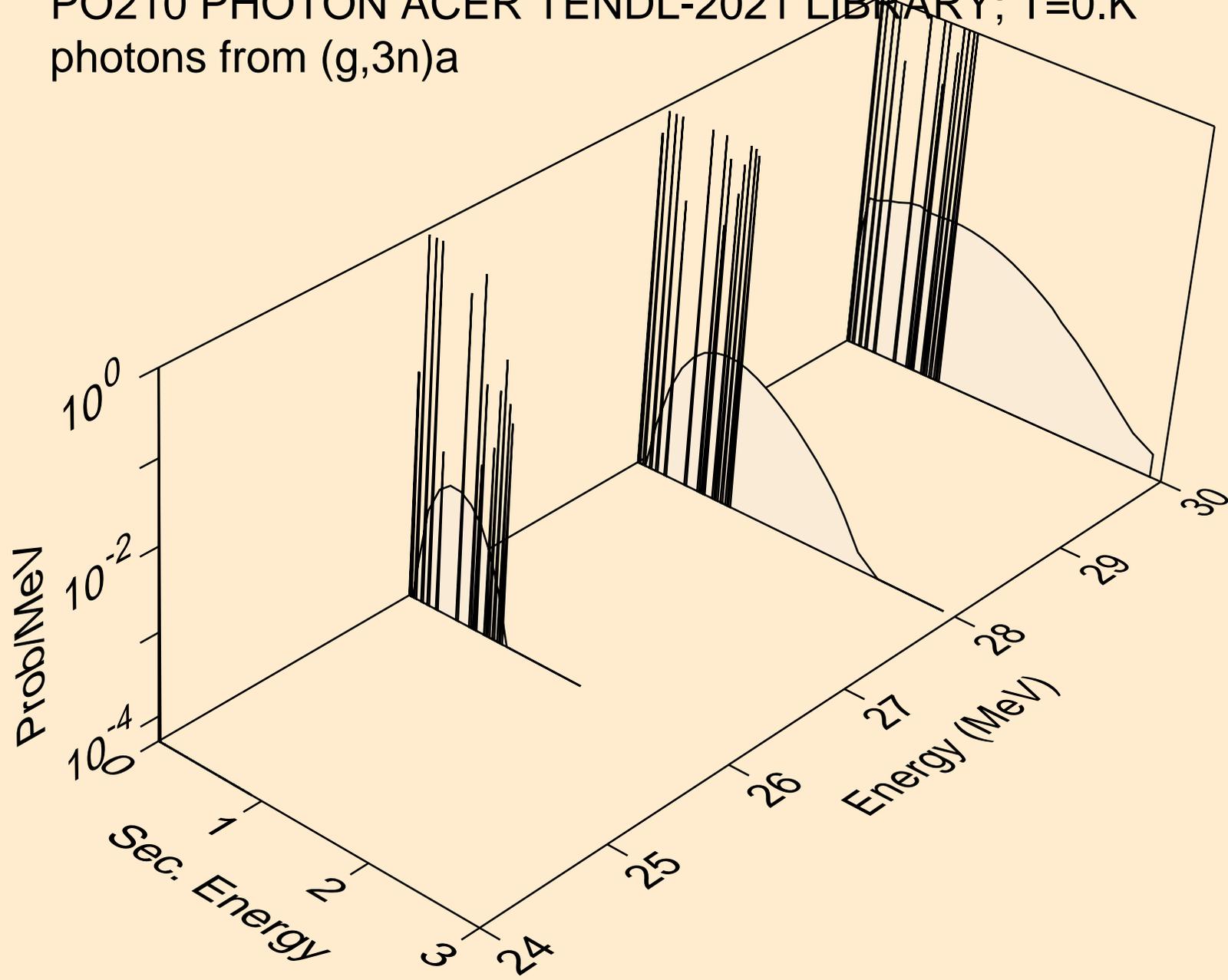photons from (g,2n)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
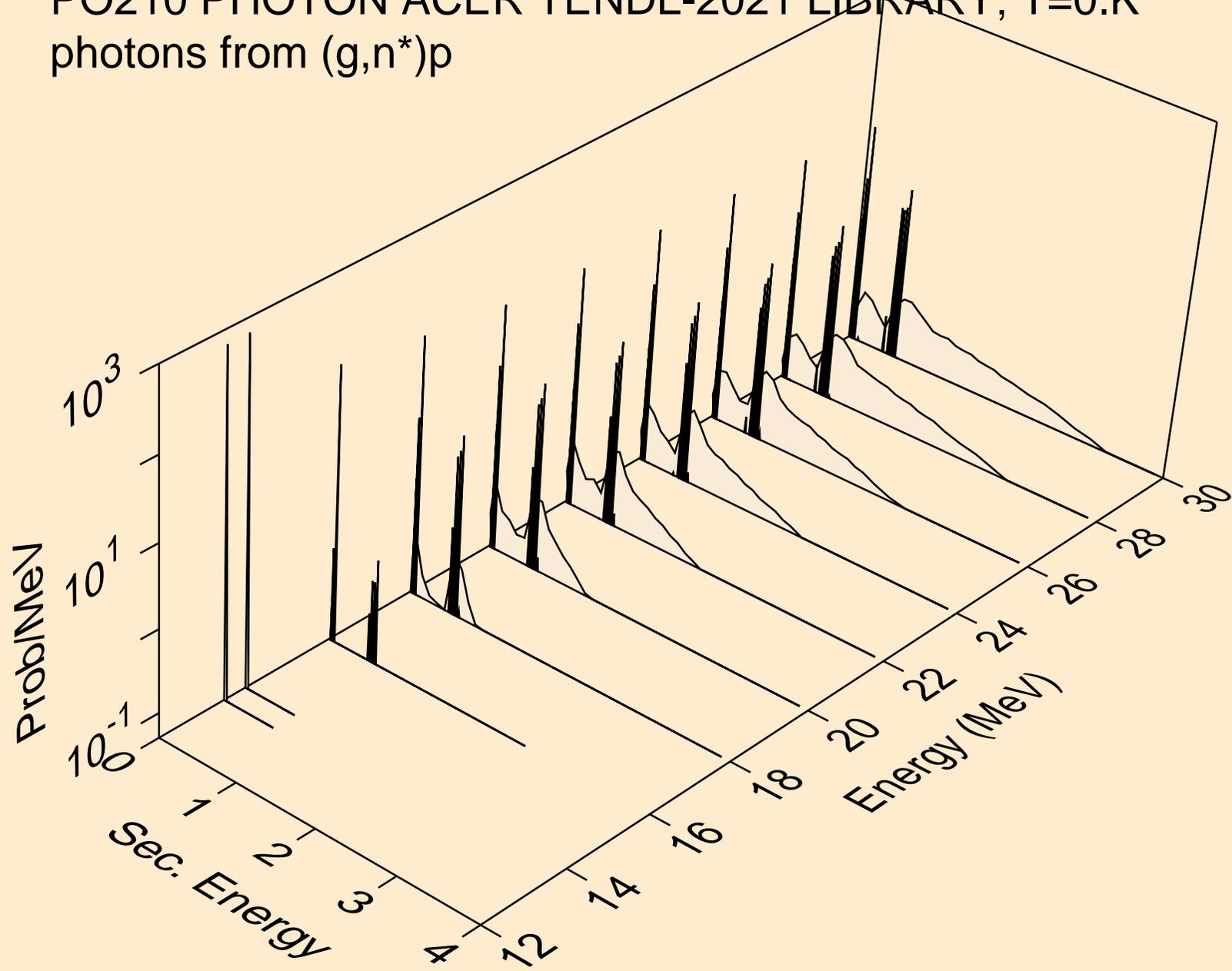photons from (g,n*)a

Prob/MeV

10^0

10^{-2}

Sec. Energy

-10   -5   0   5   10 $*10^{-3}$

5   10   15   20   25   30

Energy (MeV)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
photons from (g,2n)a

ProbIMeV

10^0

10^{-2}

0

Sec. Energy

2

4

6

16

18
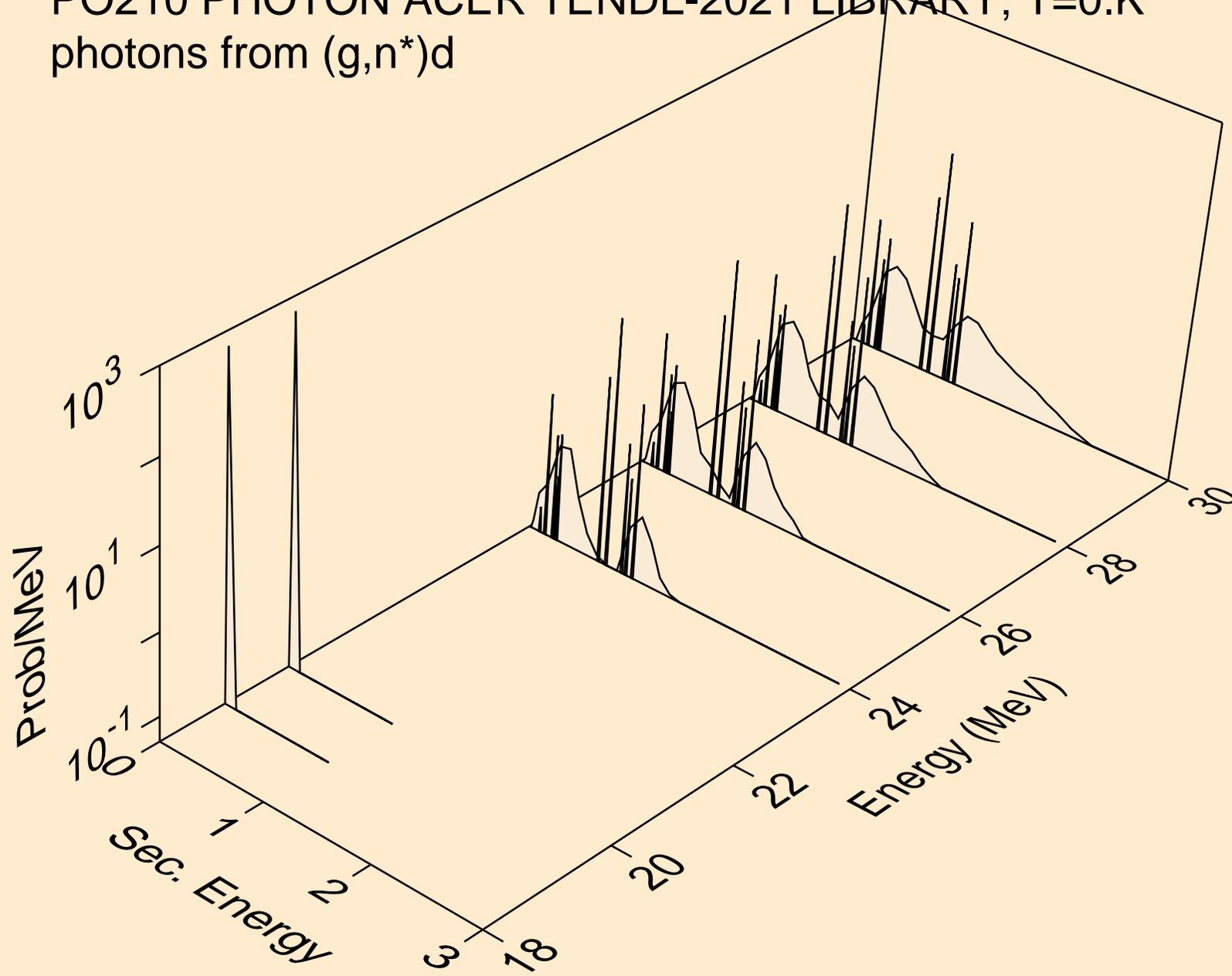
20

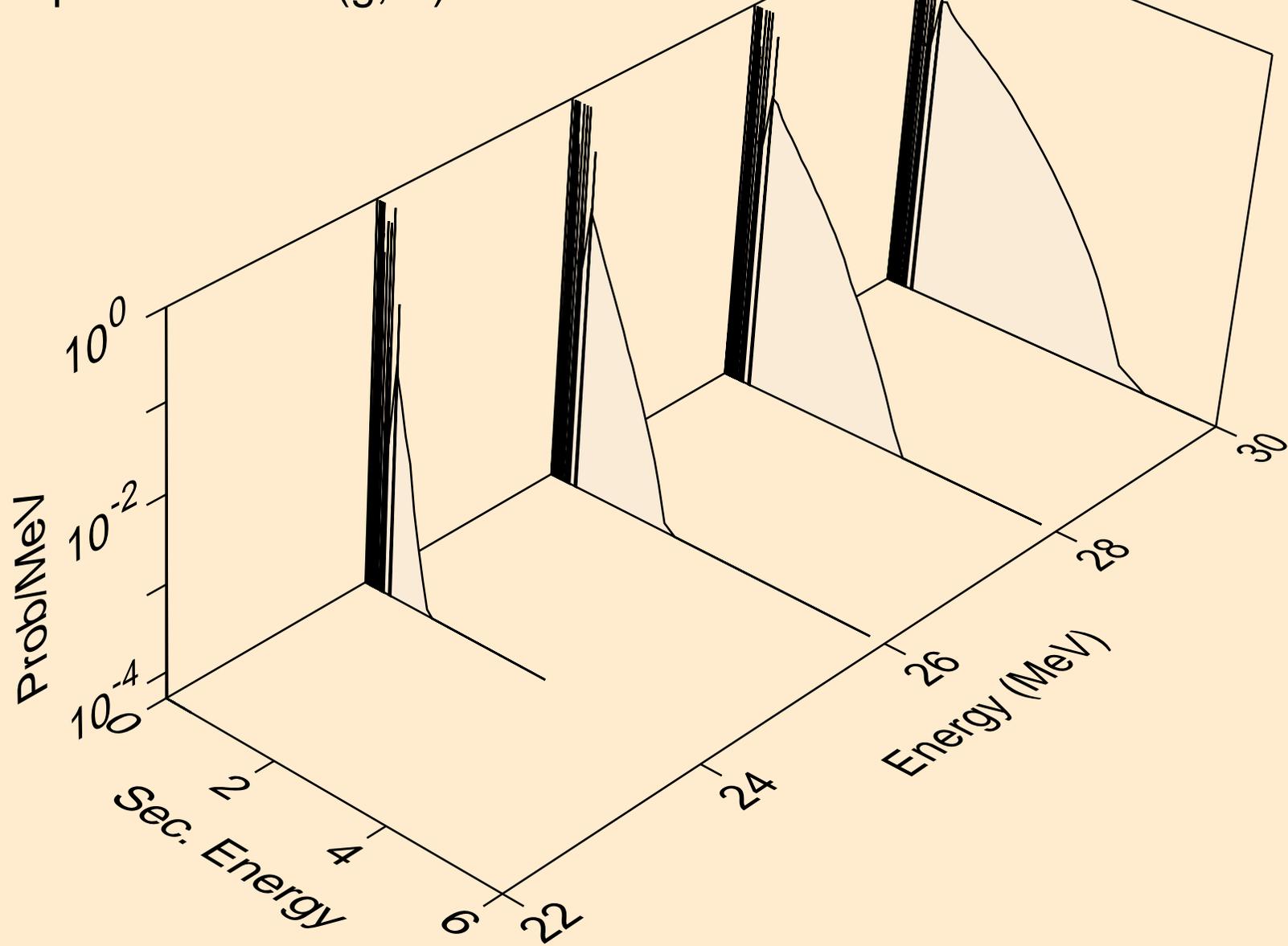22

24

26

28

30

Energy (MeV)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
photons from (g,3n)a

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
photons from (g,n*)p

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
photons from (g,n*)d

ProbIMeV

10^3

10^1

10^{-1}

10^0

Sec. Energy

1

2

3

18

20

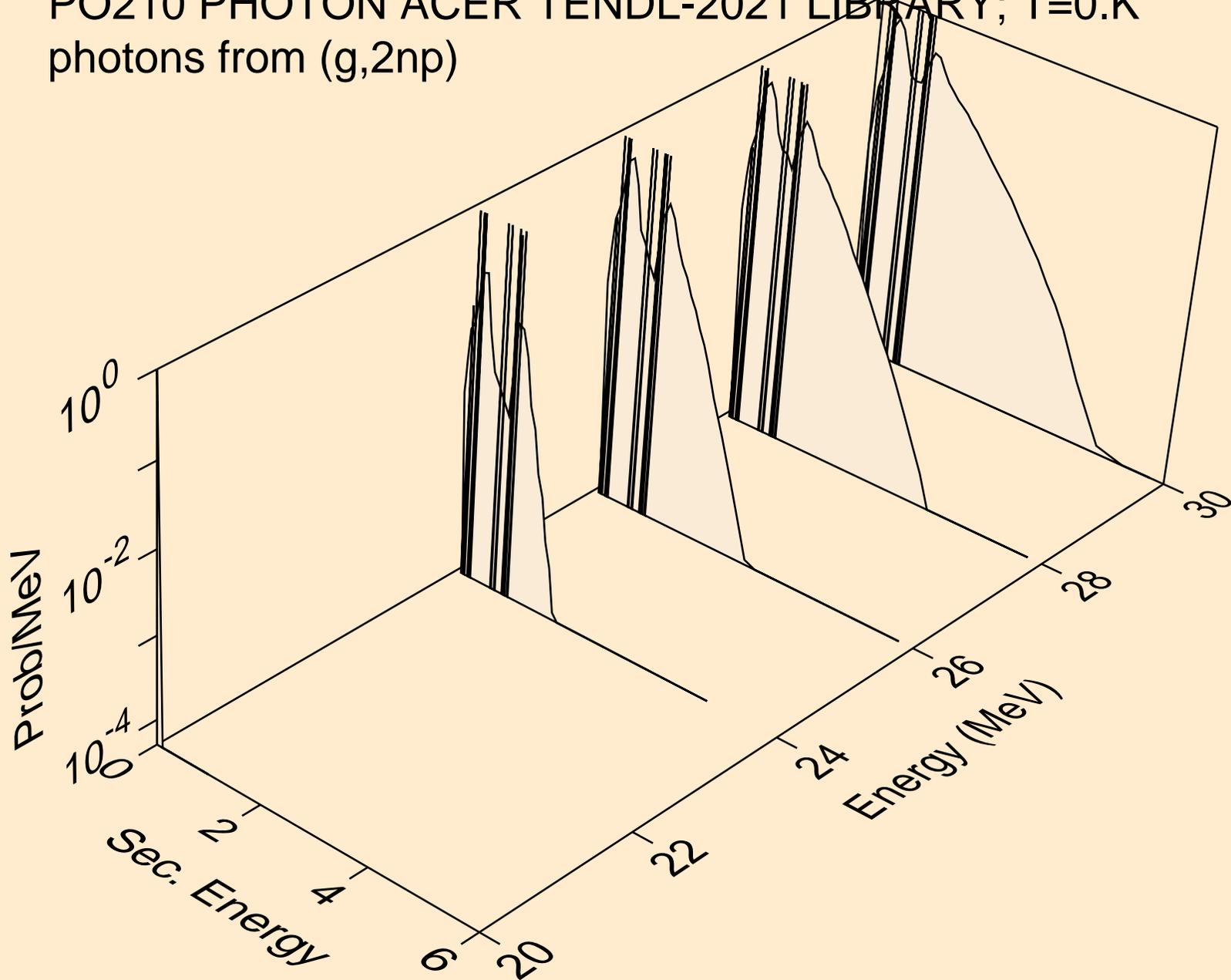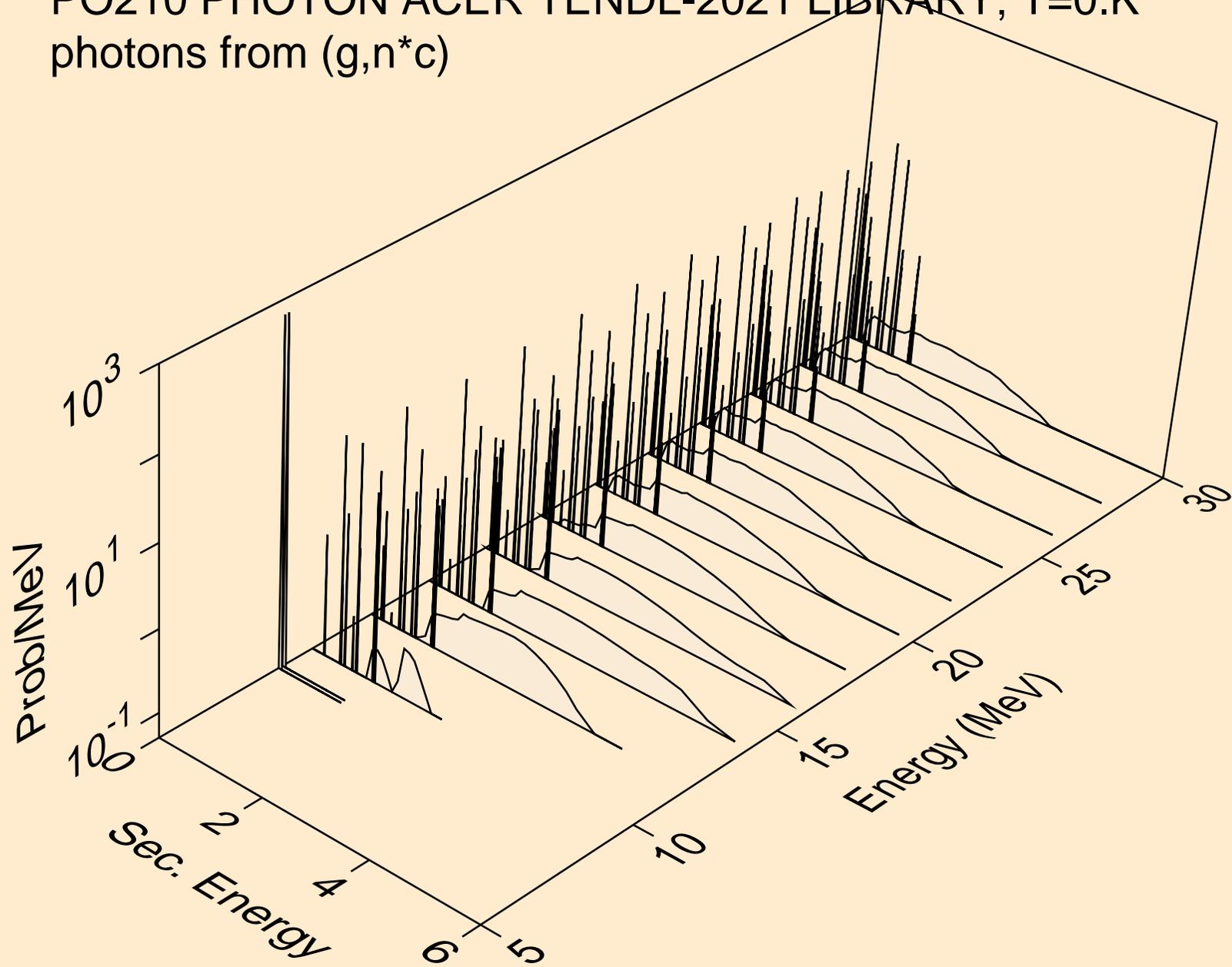22

24

26

28

30

Energy (MeV)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
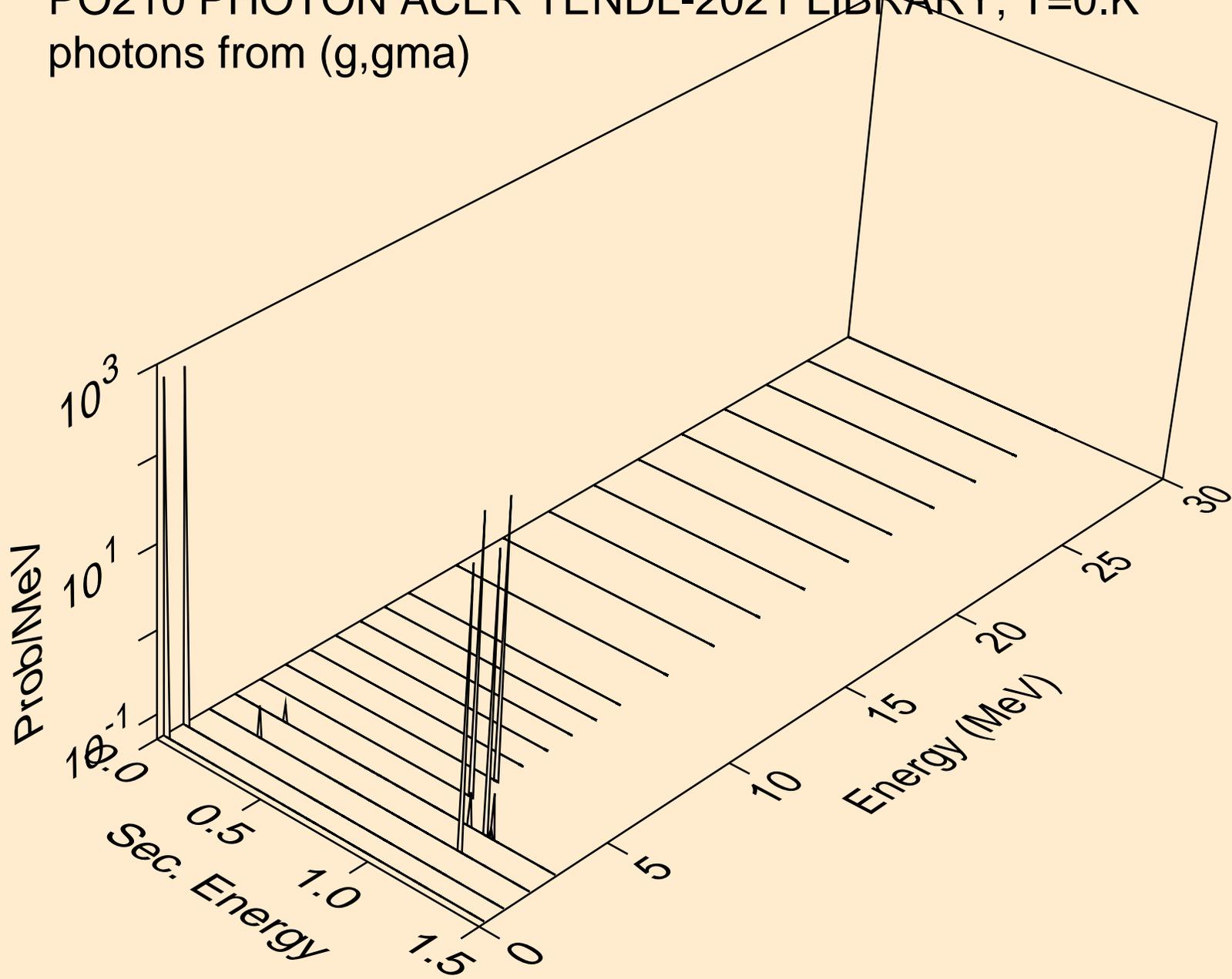photons from (g,n*)t

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
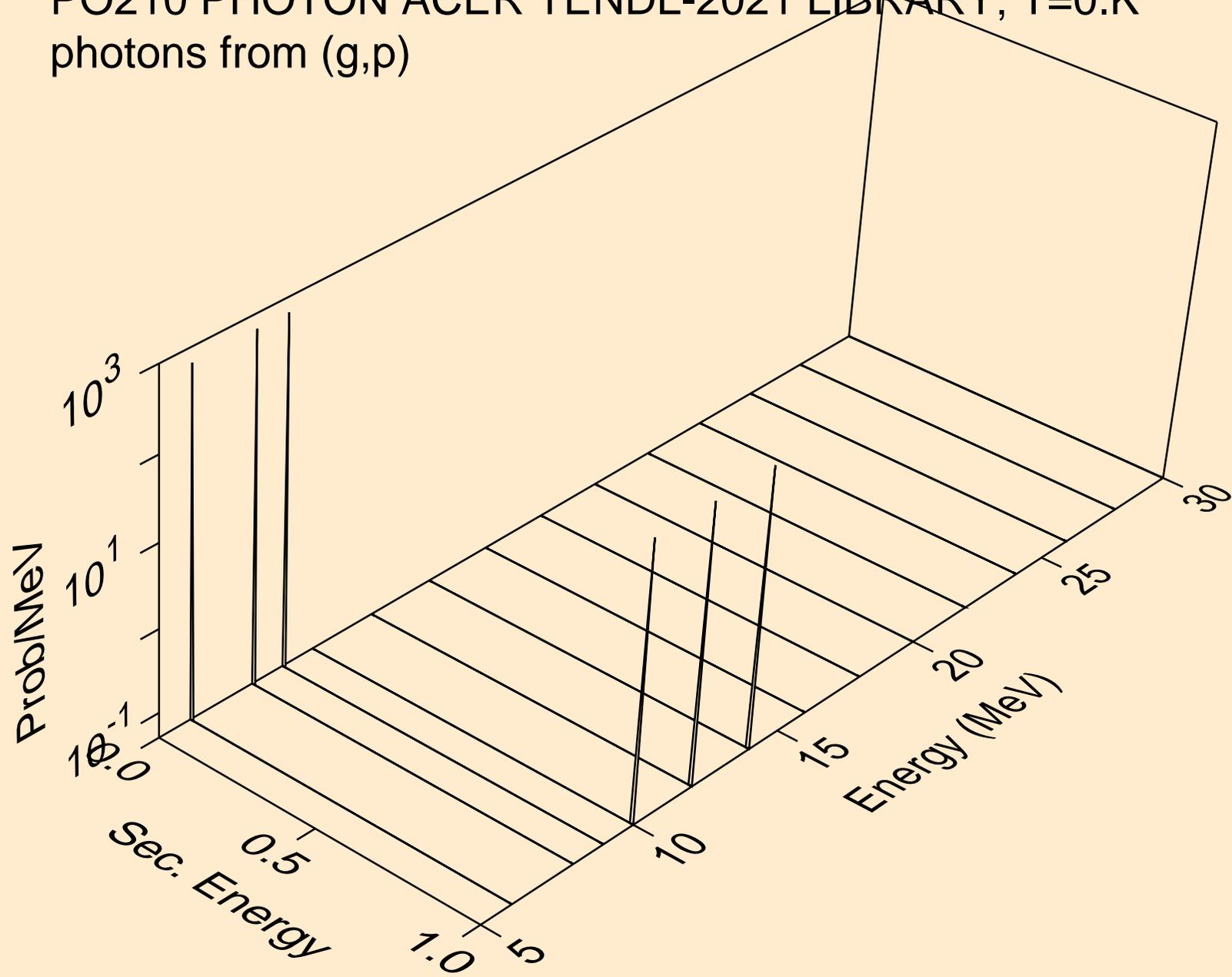photons from (g,2np)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
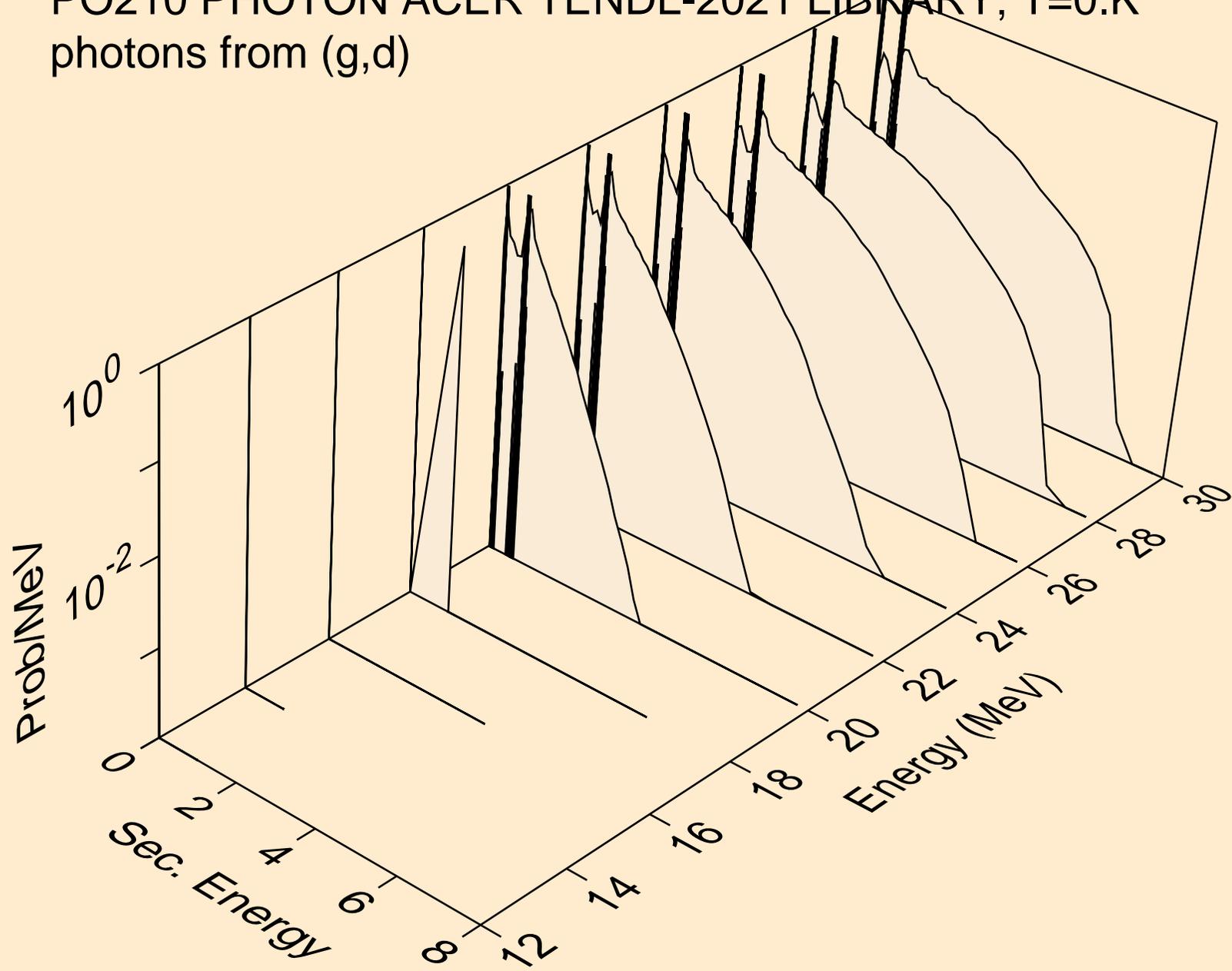photons from (g,n*c)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
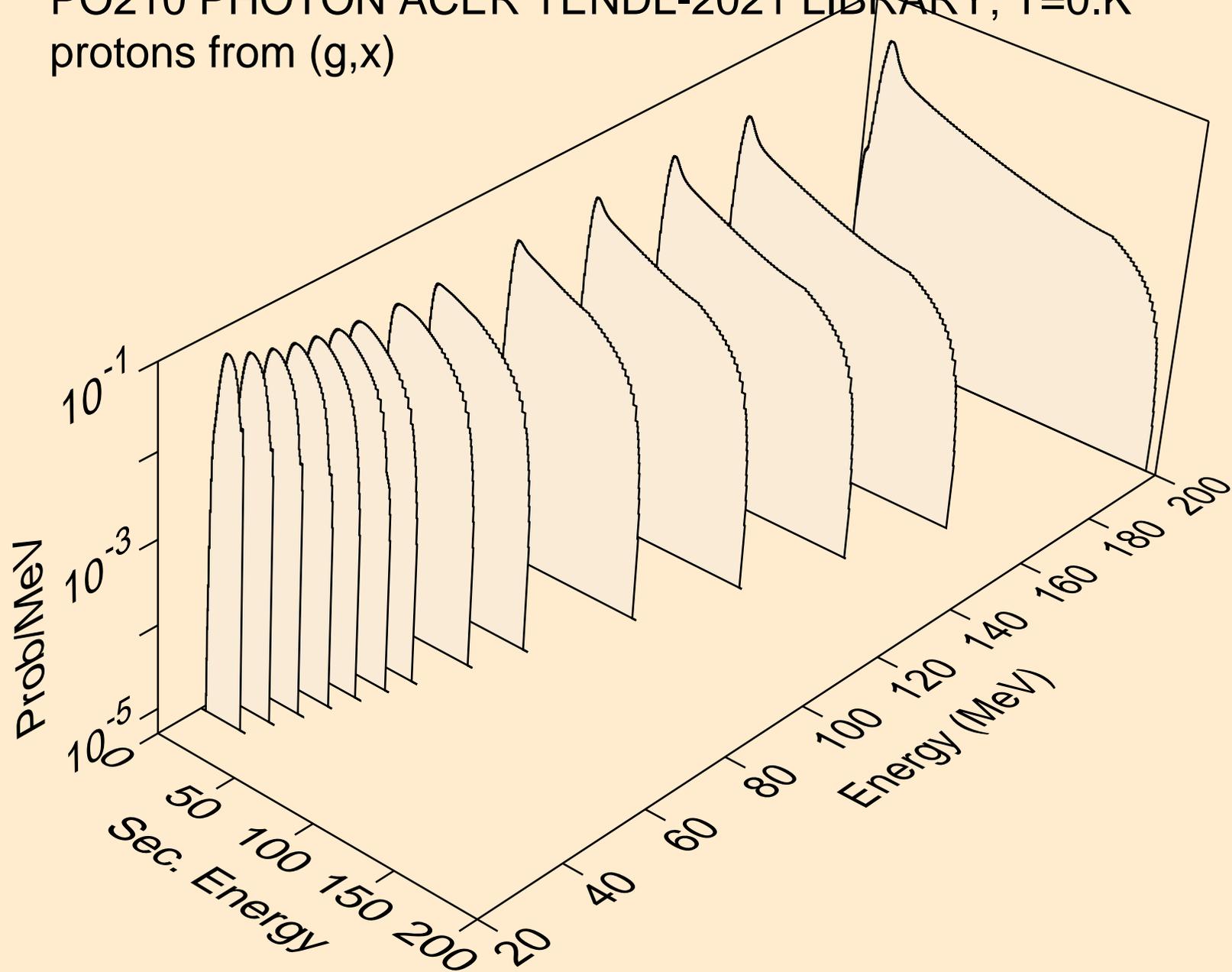photons from (g,gma)

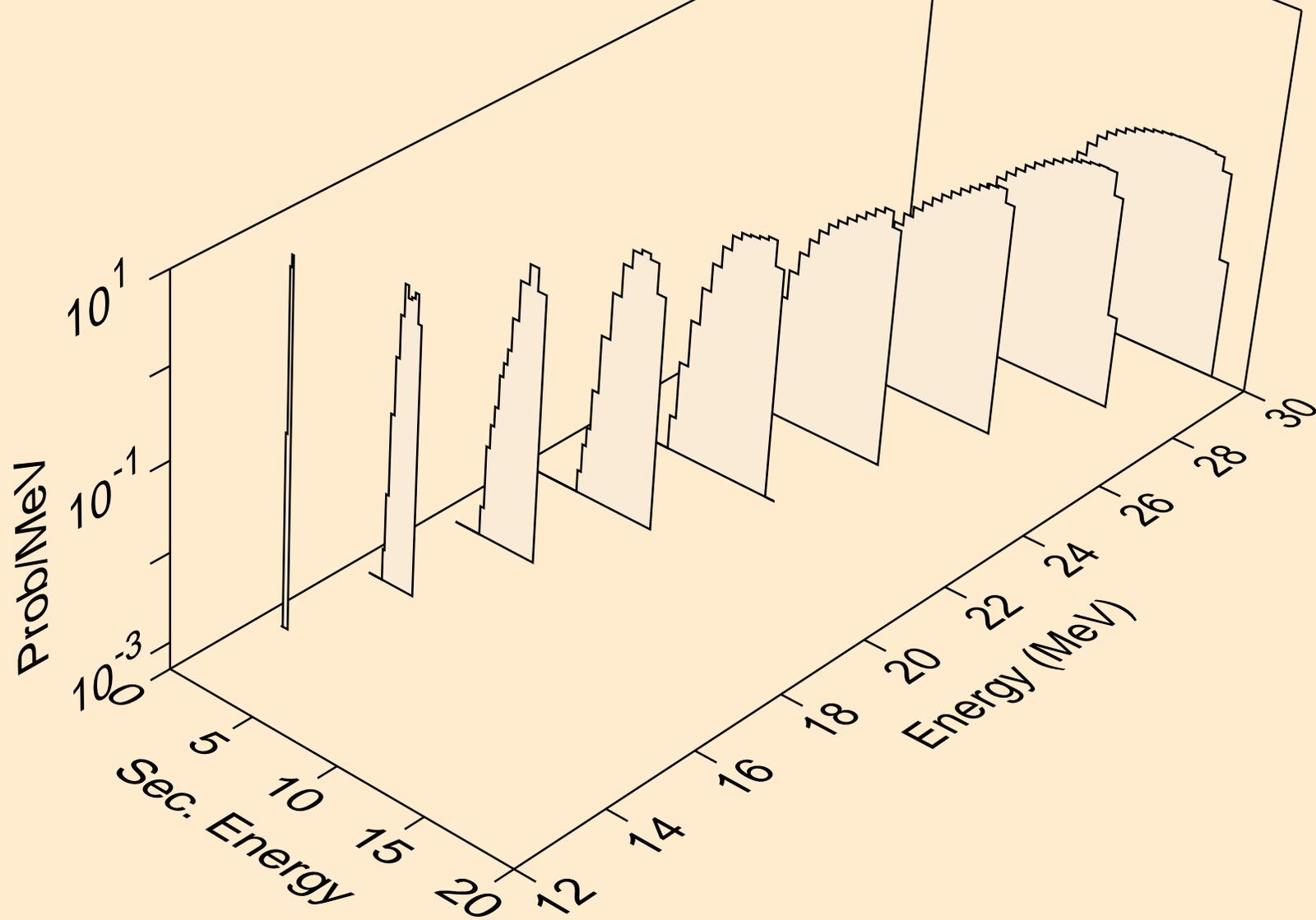PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
photons from (g,p)

Prob/MeV

10^3

10^1

10^{-1}

Sec. Energy

0.0

0.5

1.0

Energy (MeV)

5

10

15

20

25

30

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
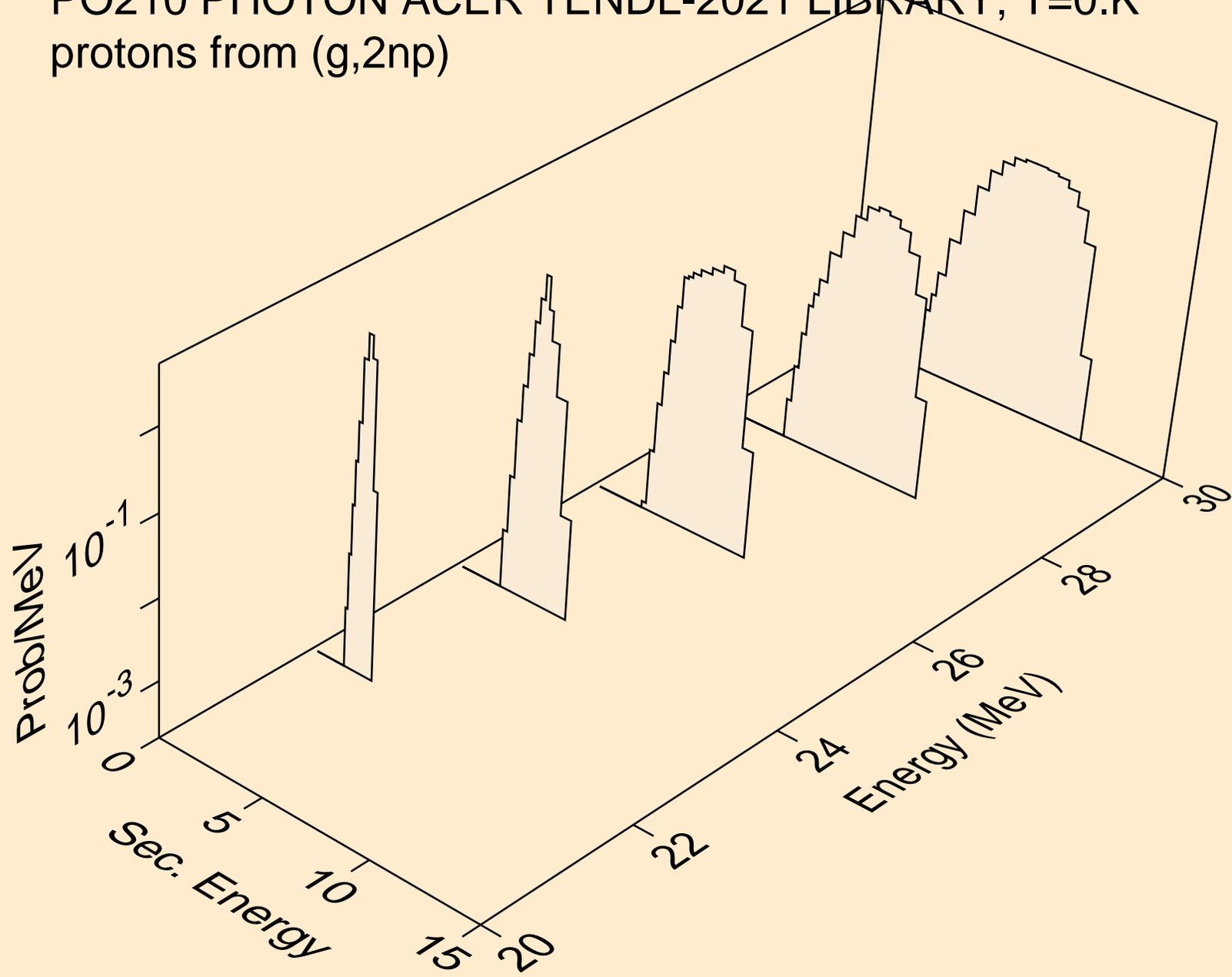photons from (g,d)

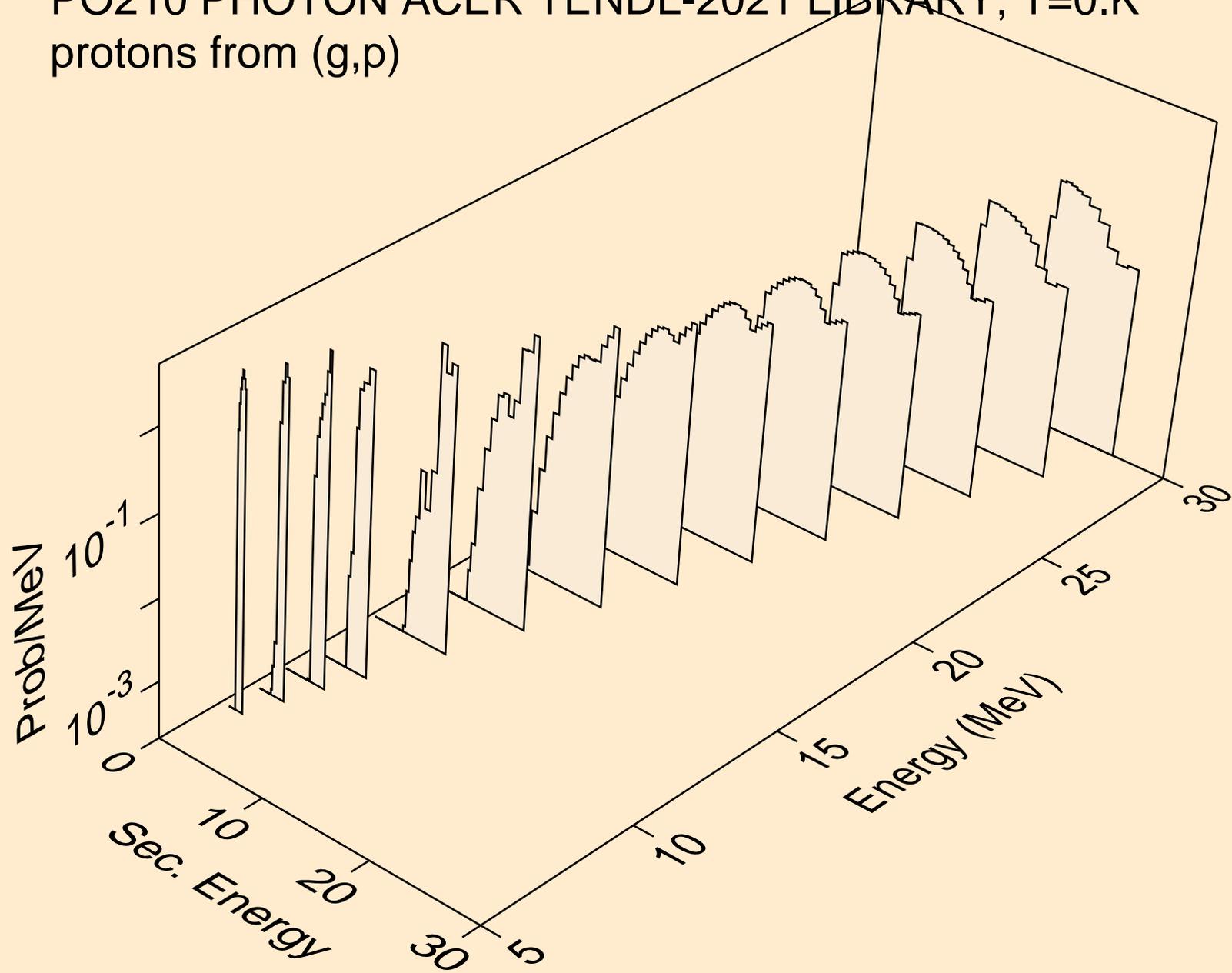PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
protons from (g,x)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
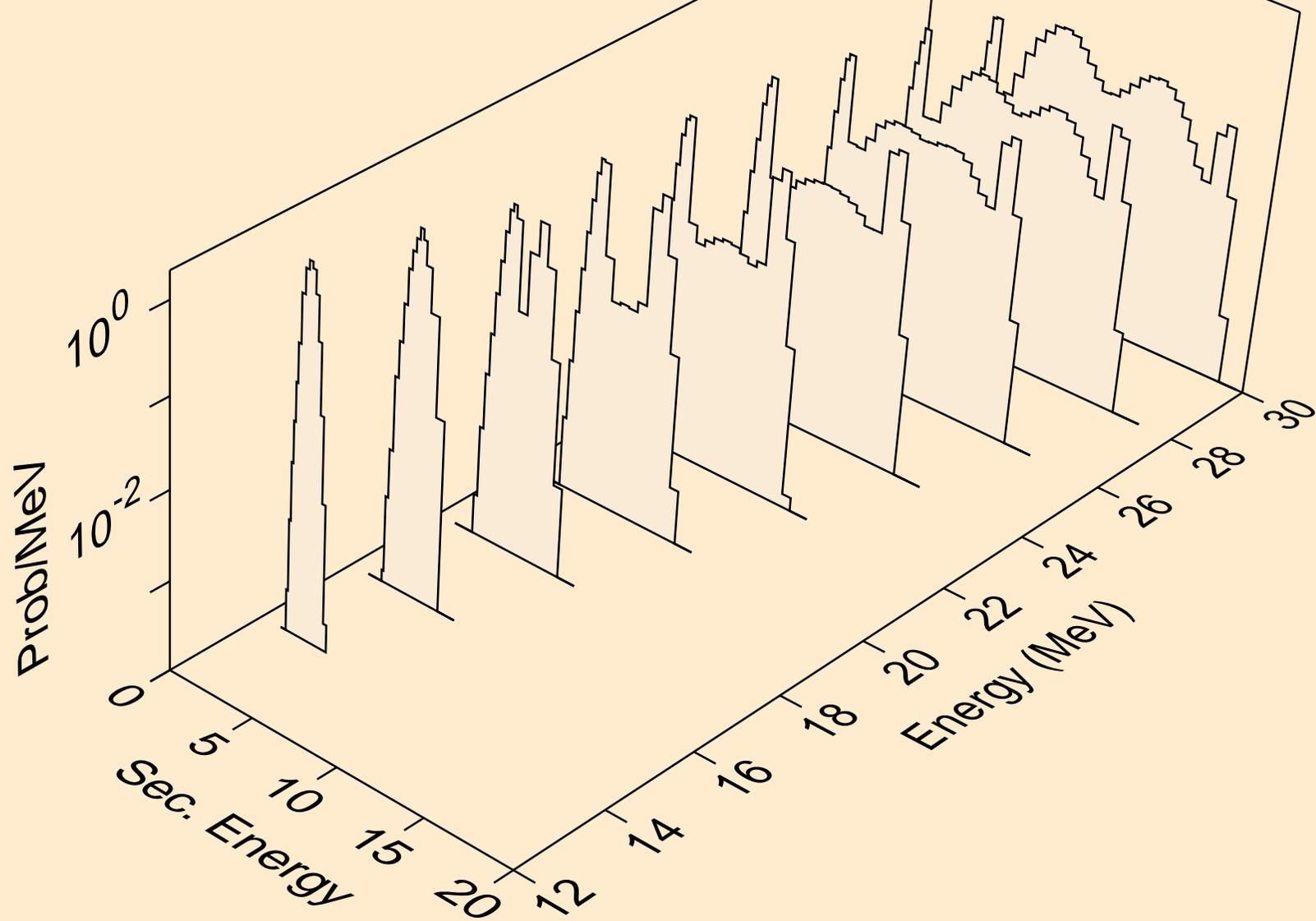protons from (g,n*)p

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
protons from (g,2np)
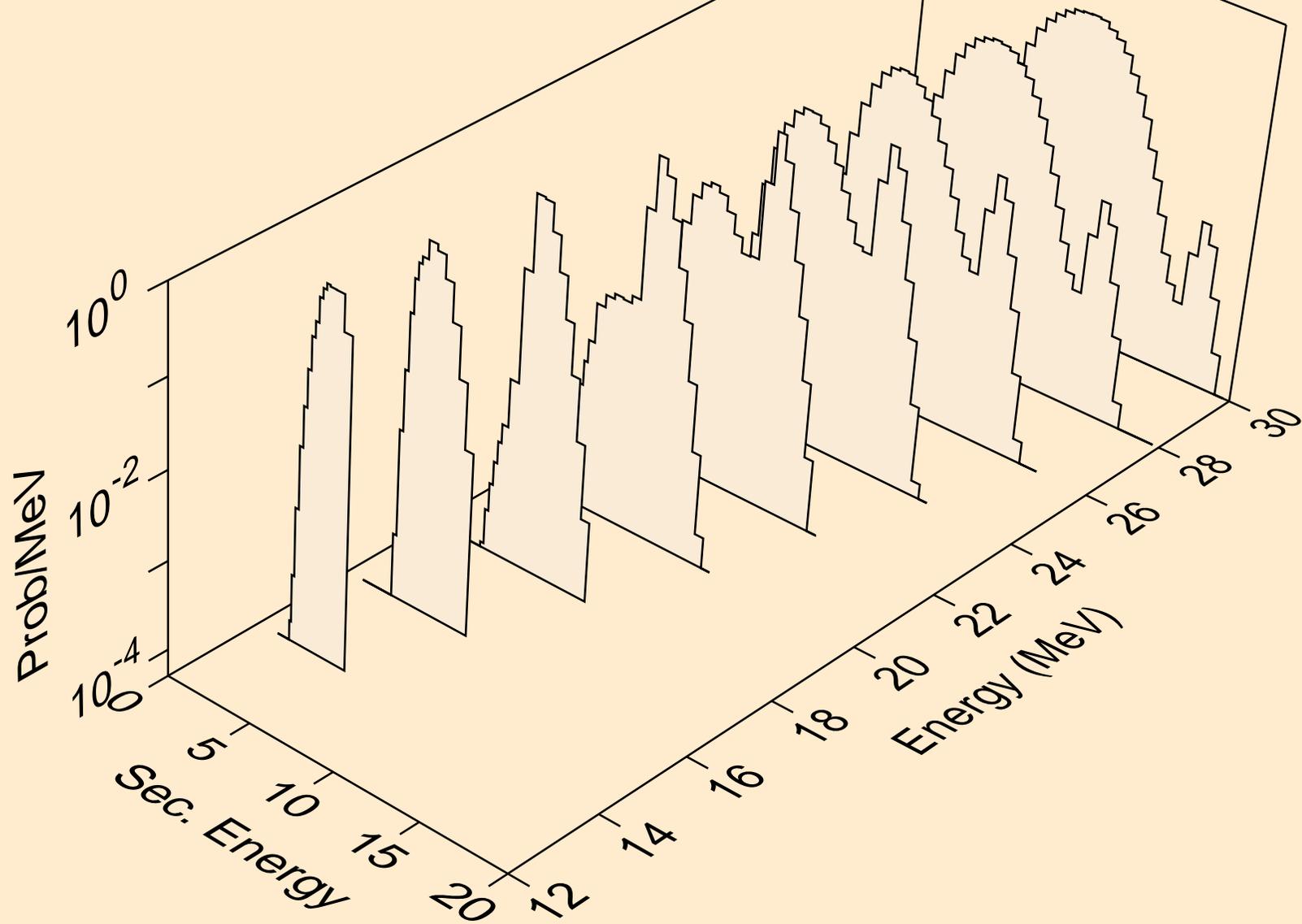
PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
protons from (g,p)
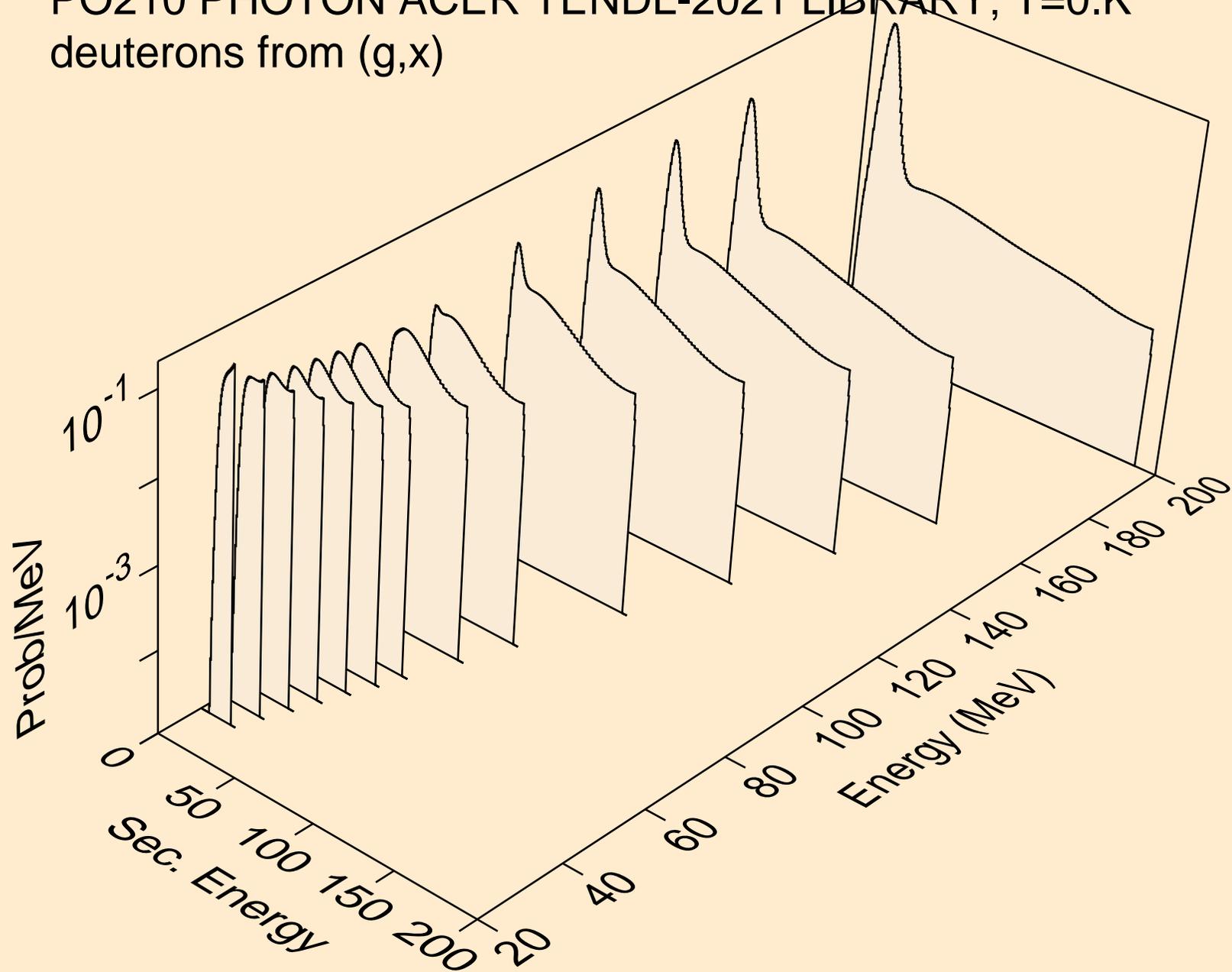
PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
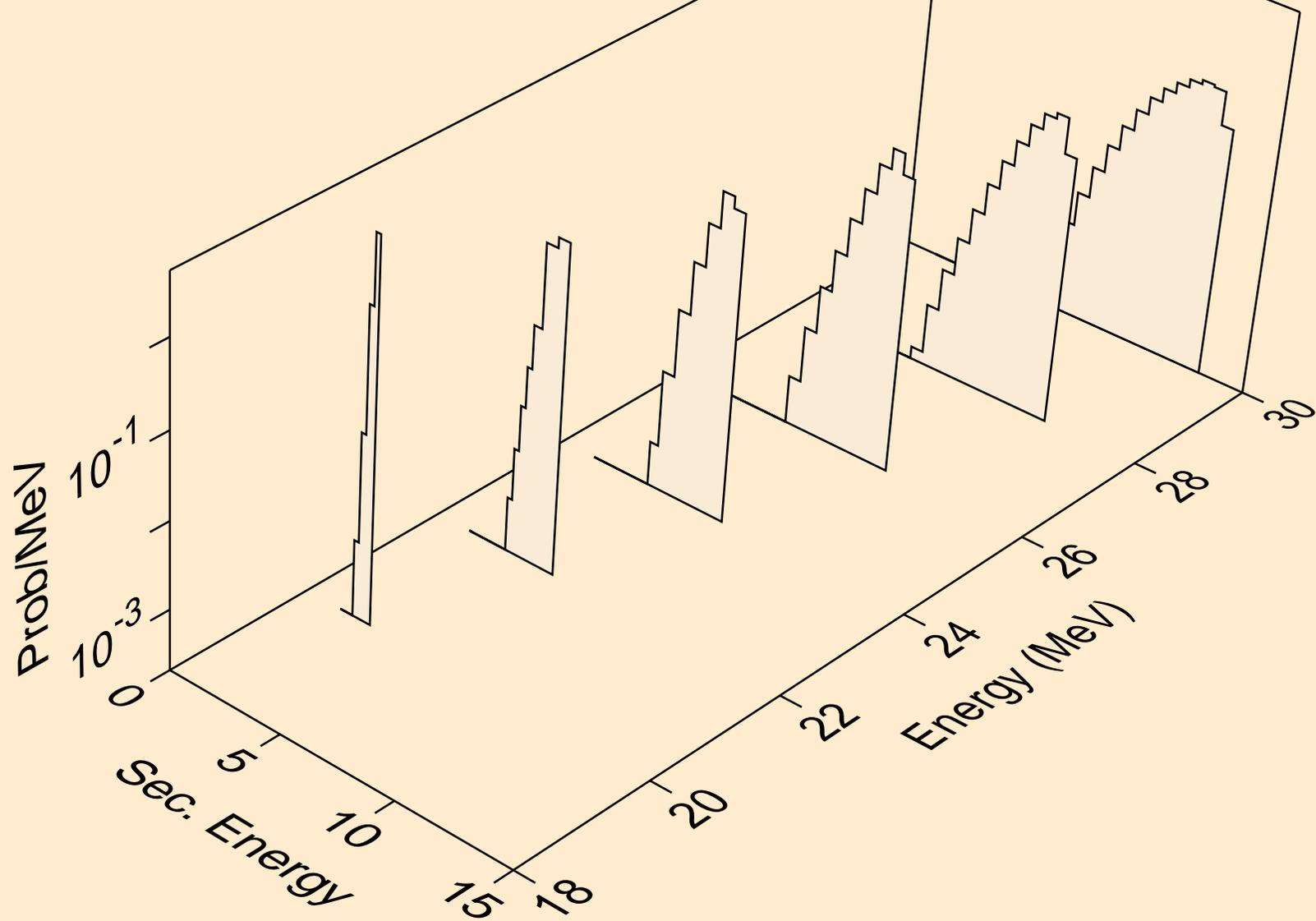protons from (g,2p)

Prob/MeV

10^0

10^{-2}

0

Sec. Energy

5

10

15

20

Energy (MeV)

12

14

16

18

20

22

24

26

28

30

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
protons from (g,pa)

PO210 PHOTON ACER TENDL-2021 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

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (g,n*)d

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
deuterons from (g,d)
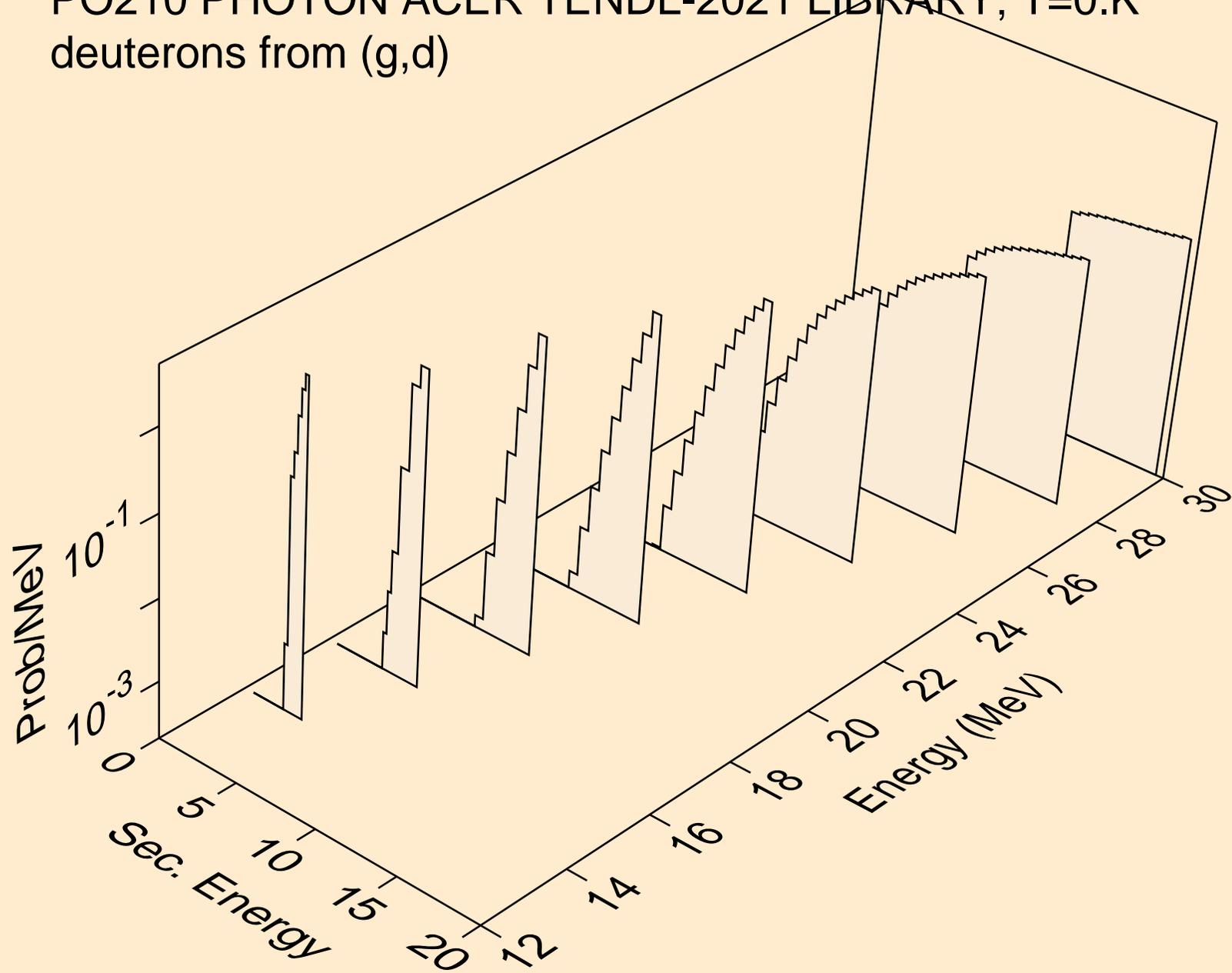
Prob/MeV

10^{-1}

10^{-3}

Sec. Energy

Energy (MeV)

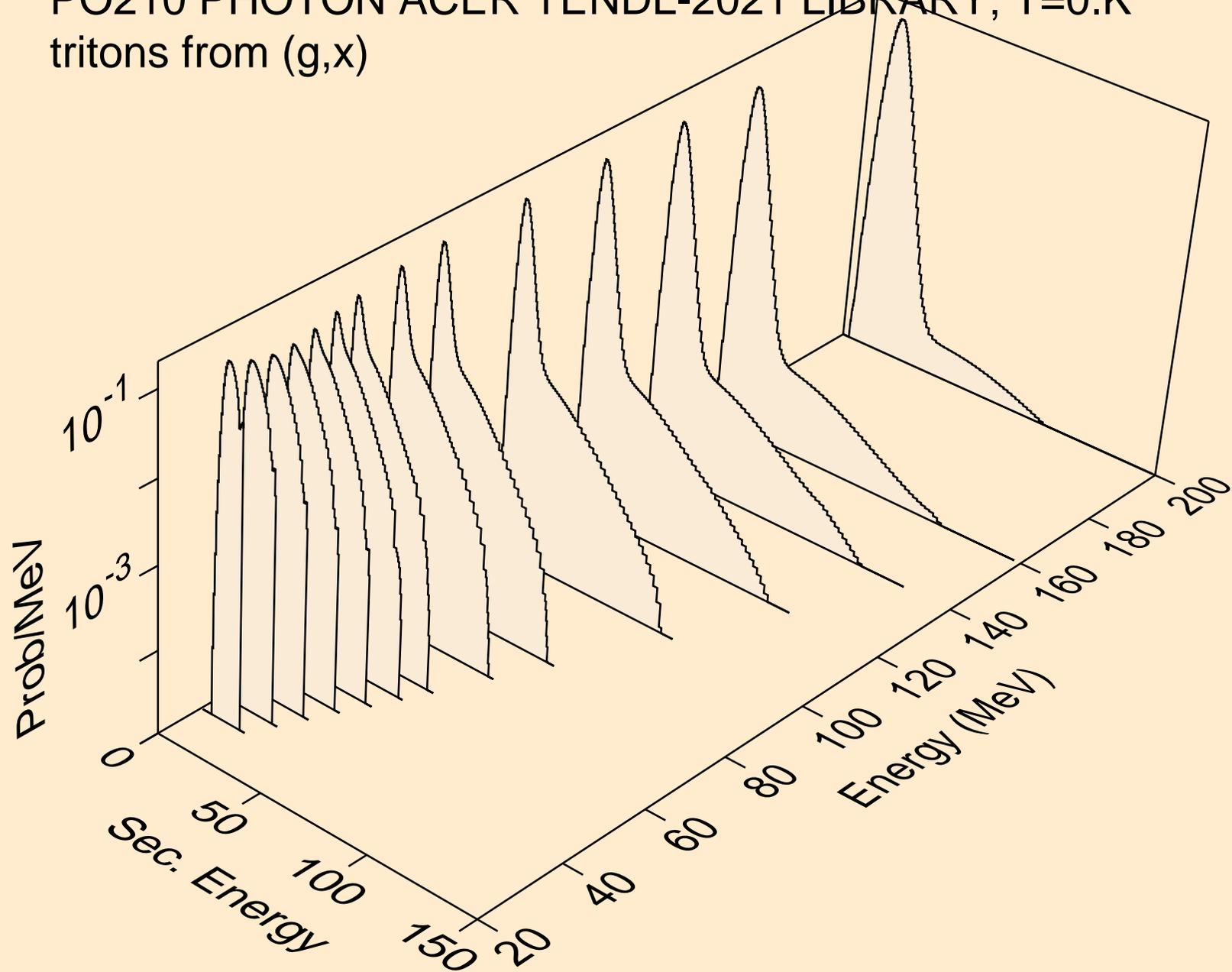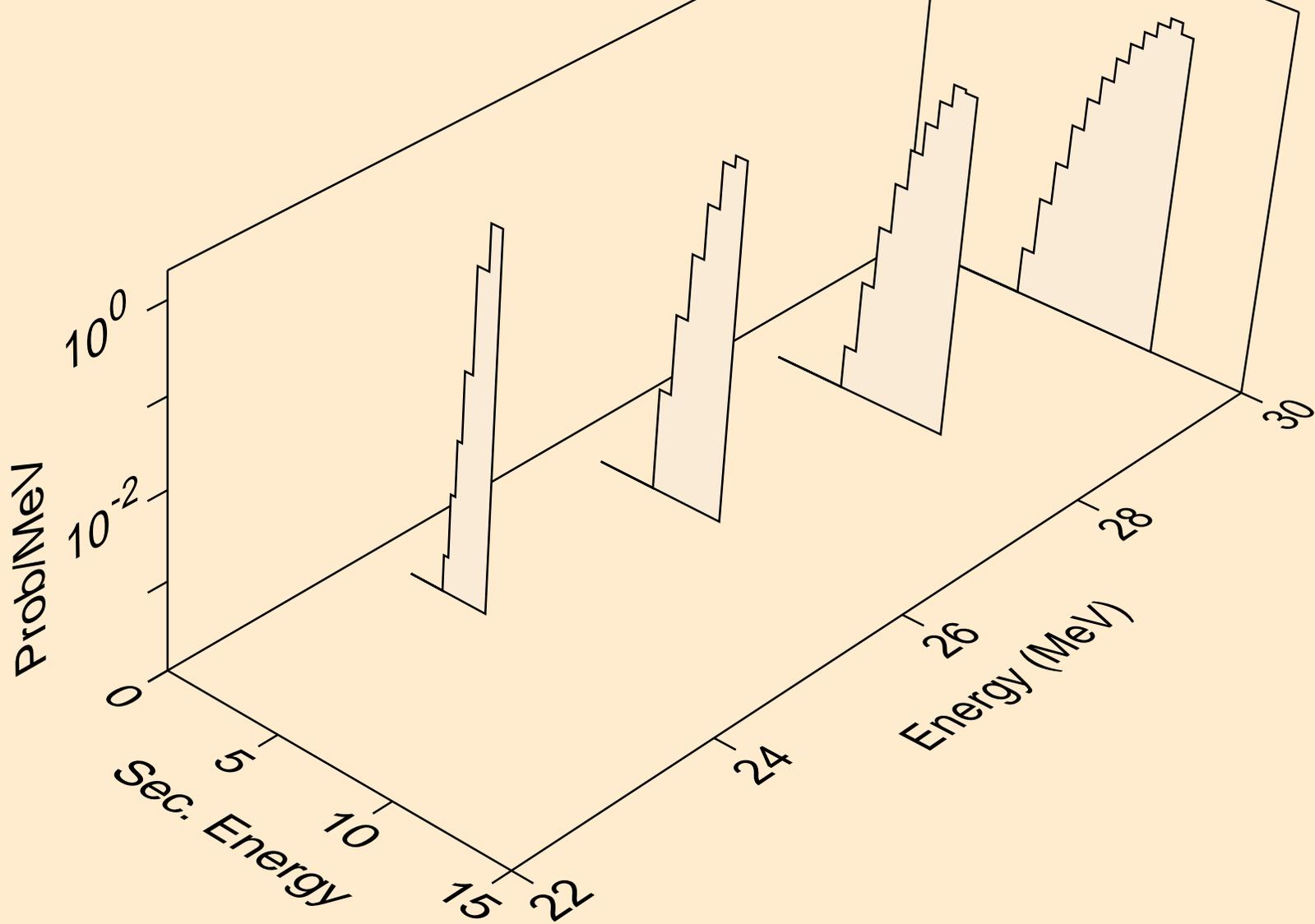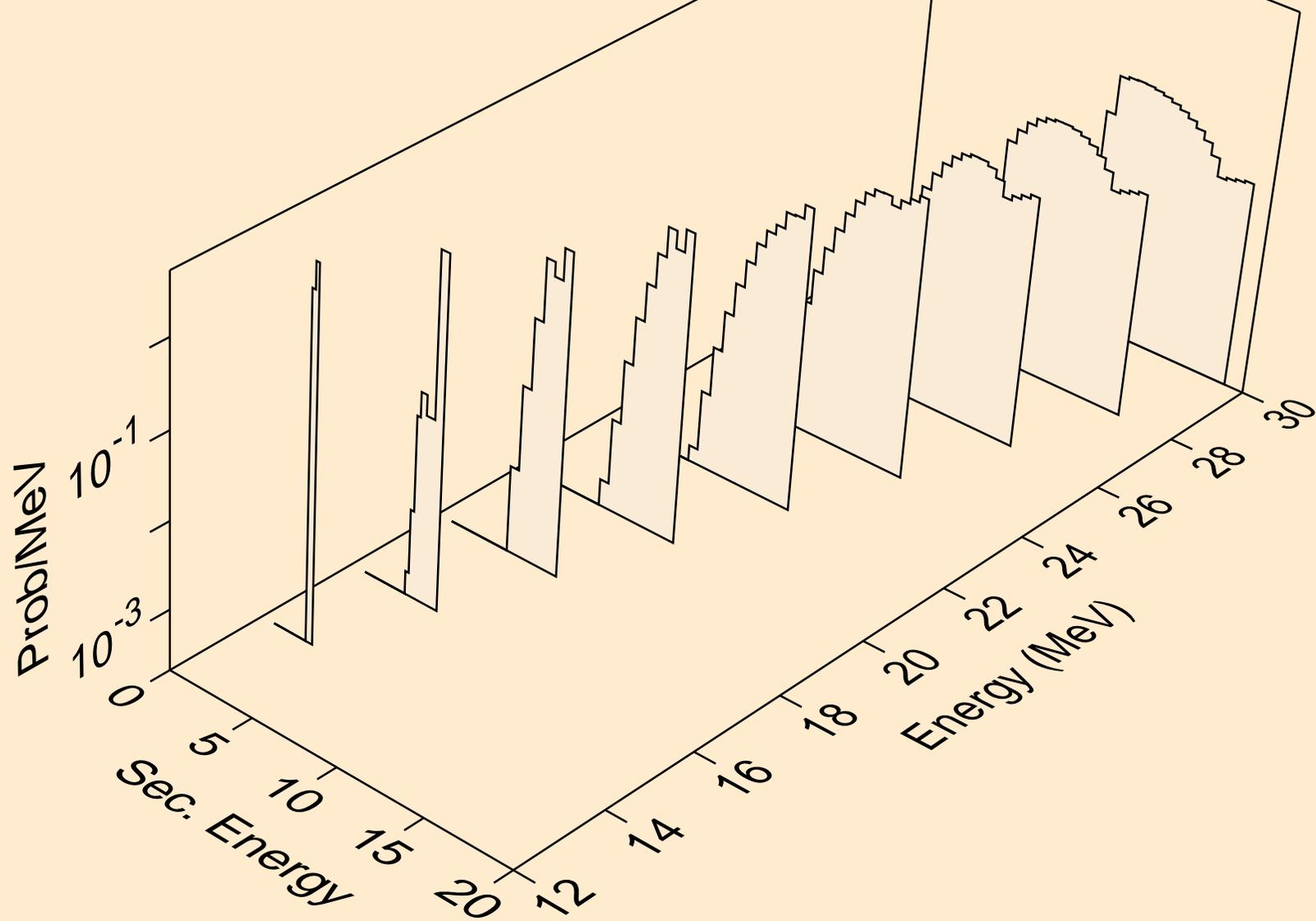PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
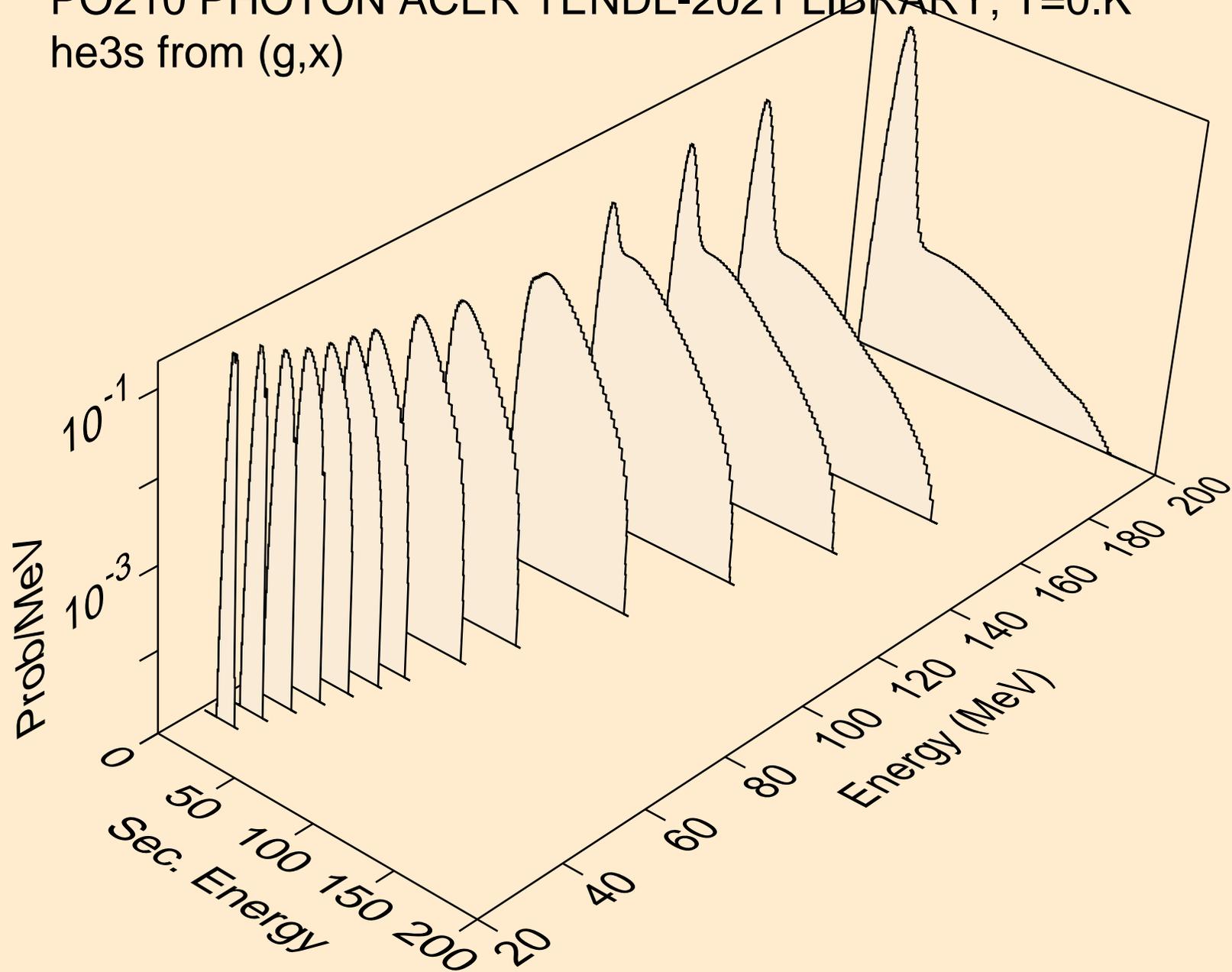tritons from (g,x)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
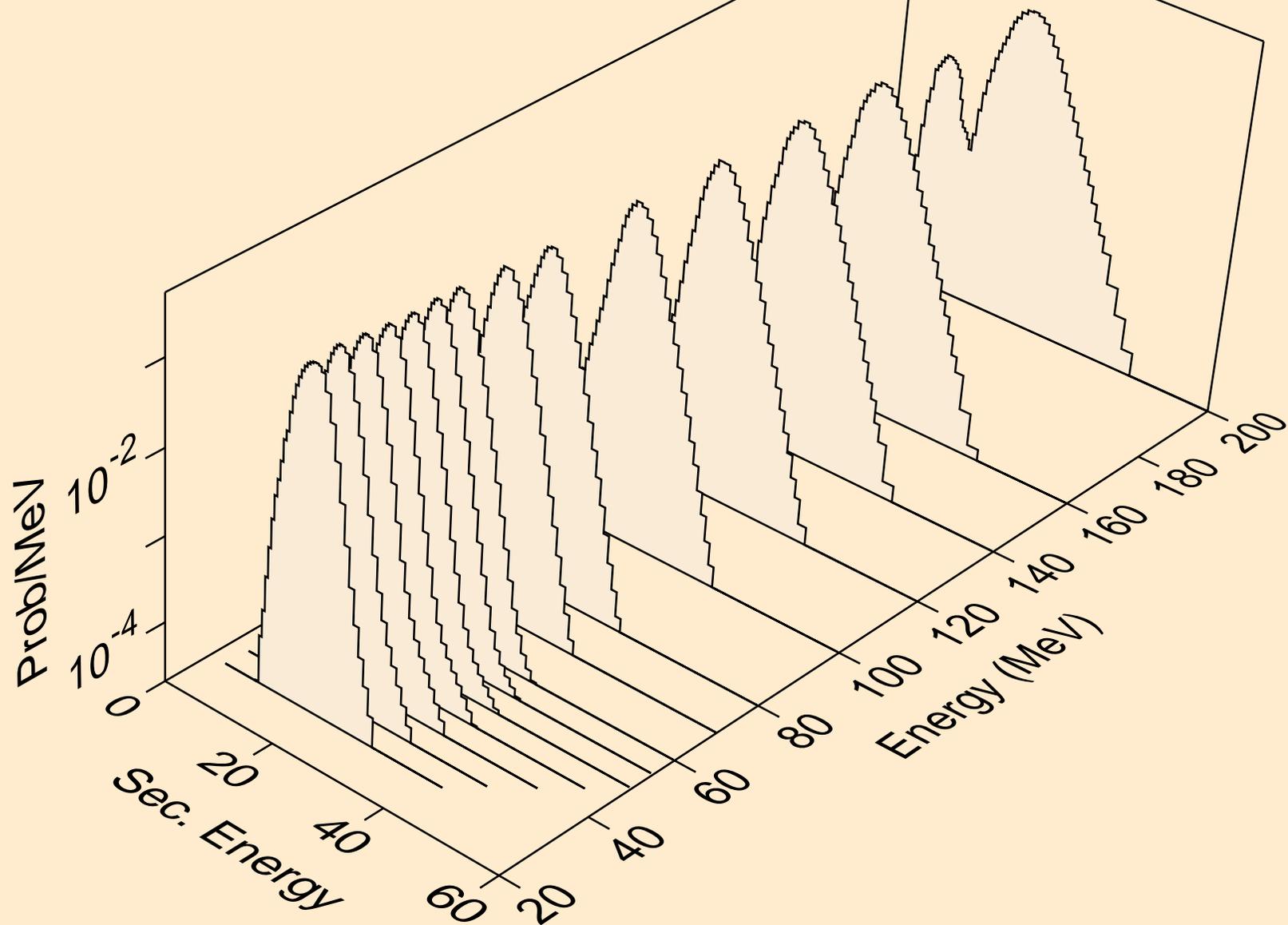tritons from (g,n*)t

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
tritons from (g,t)
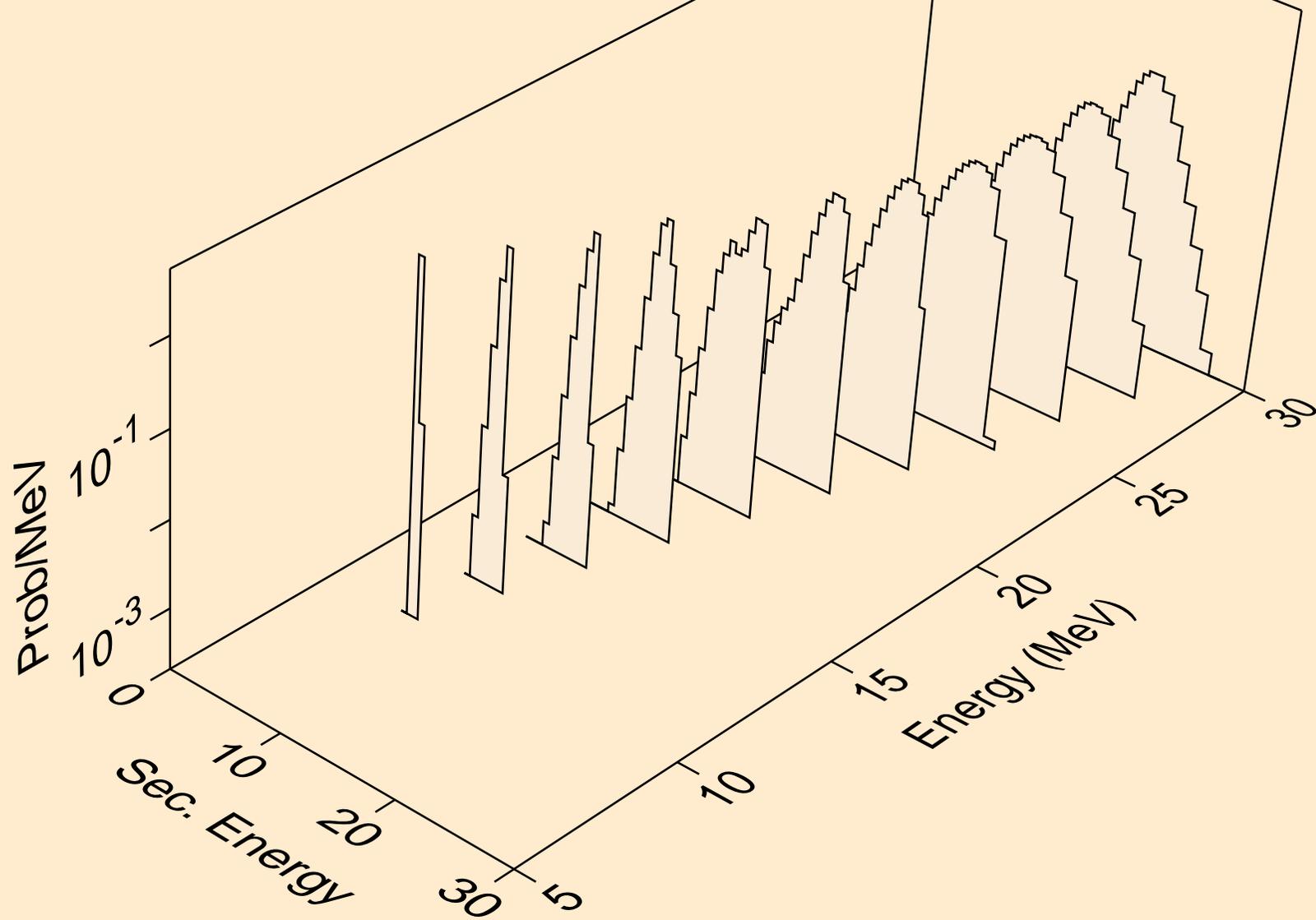
PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
he3s from (g,x)
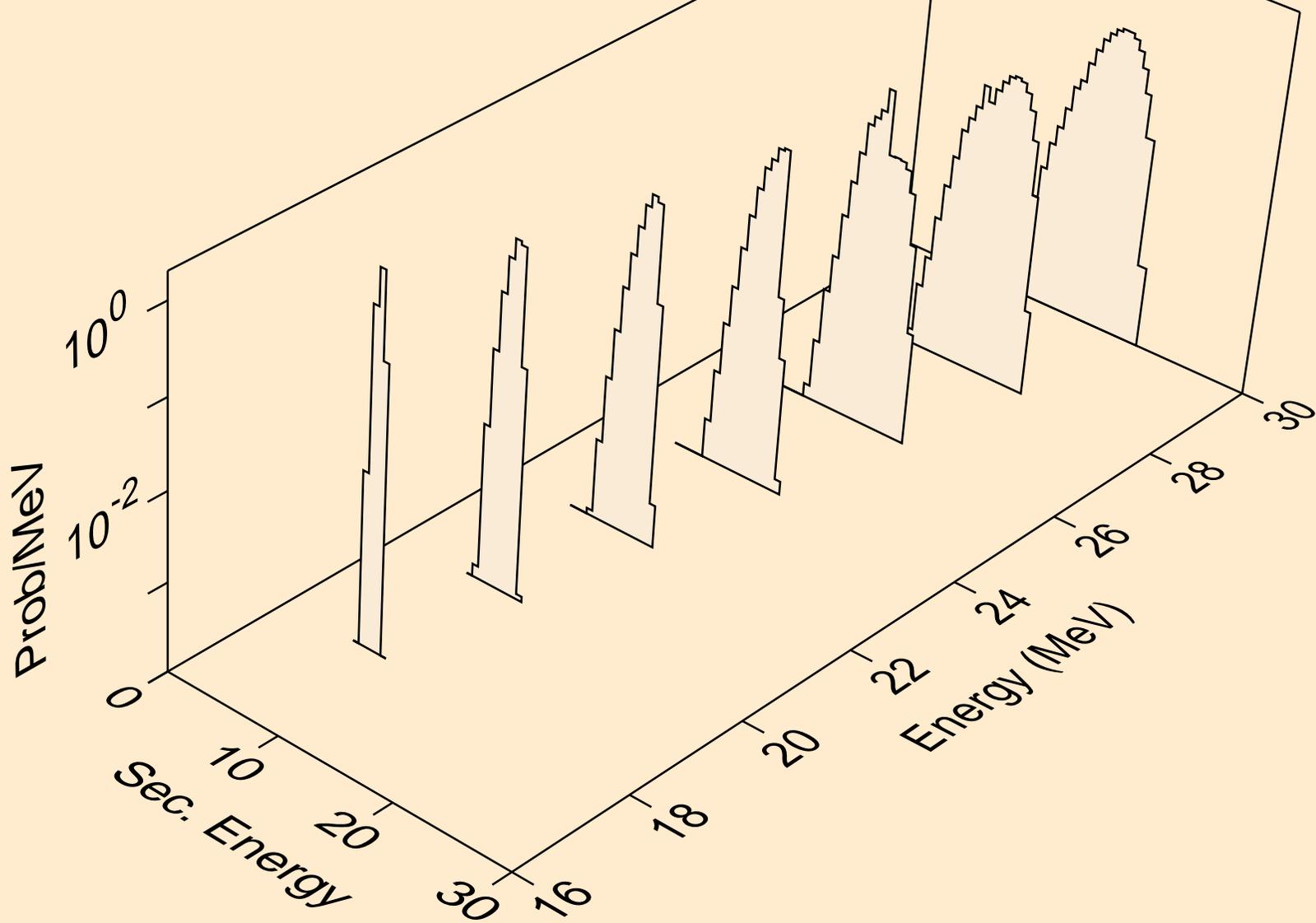
PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
alphas from (g,x)

Prob/MeV

10^{-2}

10^{-4}

Sec. Energy

20

40

60

Energy (MeV)

20

40

60

80

100

120

140

160

180

200

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
alphas from (g,n*)a

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
alphas from (g,2n)a

ProbMeV

10^0

10^{-2}

0

Sec. Energy

10

20

30

16

18

20

22

24

26

28

30

Energy (MeV)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
alphas from (g,3n)a

Prob/MeV

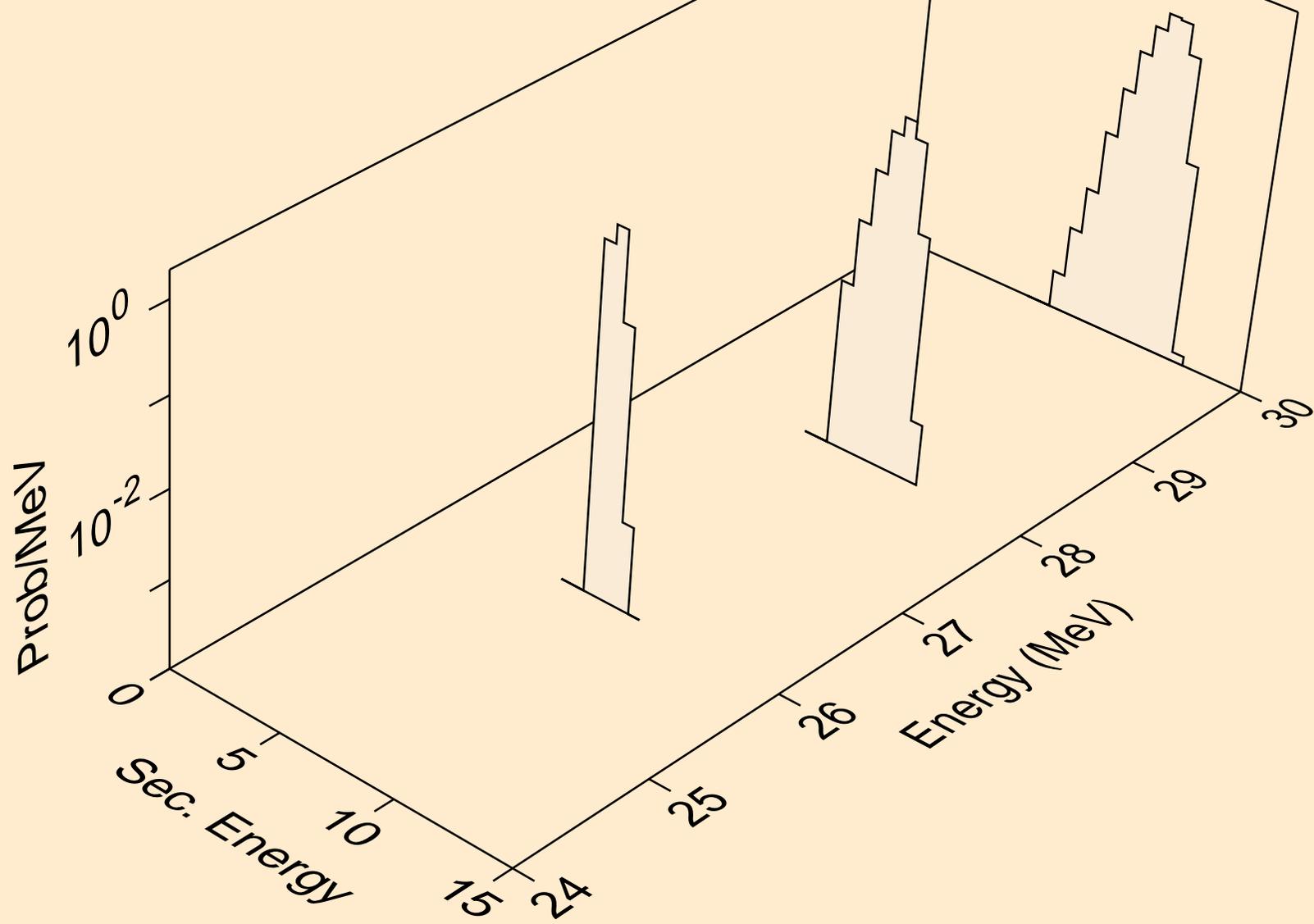10^0

10^{-2}

0

Sec. Energy

5

10

15

24

25

26

27

28

29

30

Energy (MeV)

PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
alphas from (g,a)

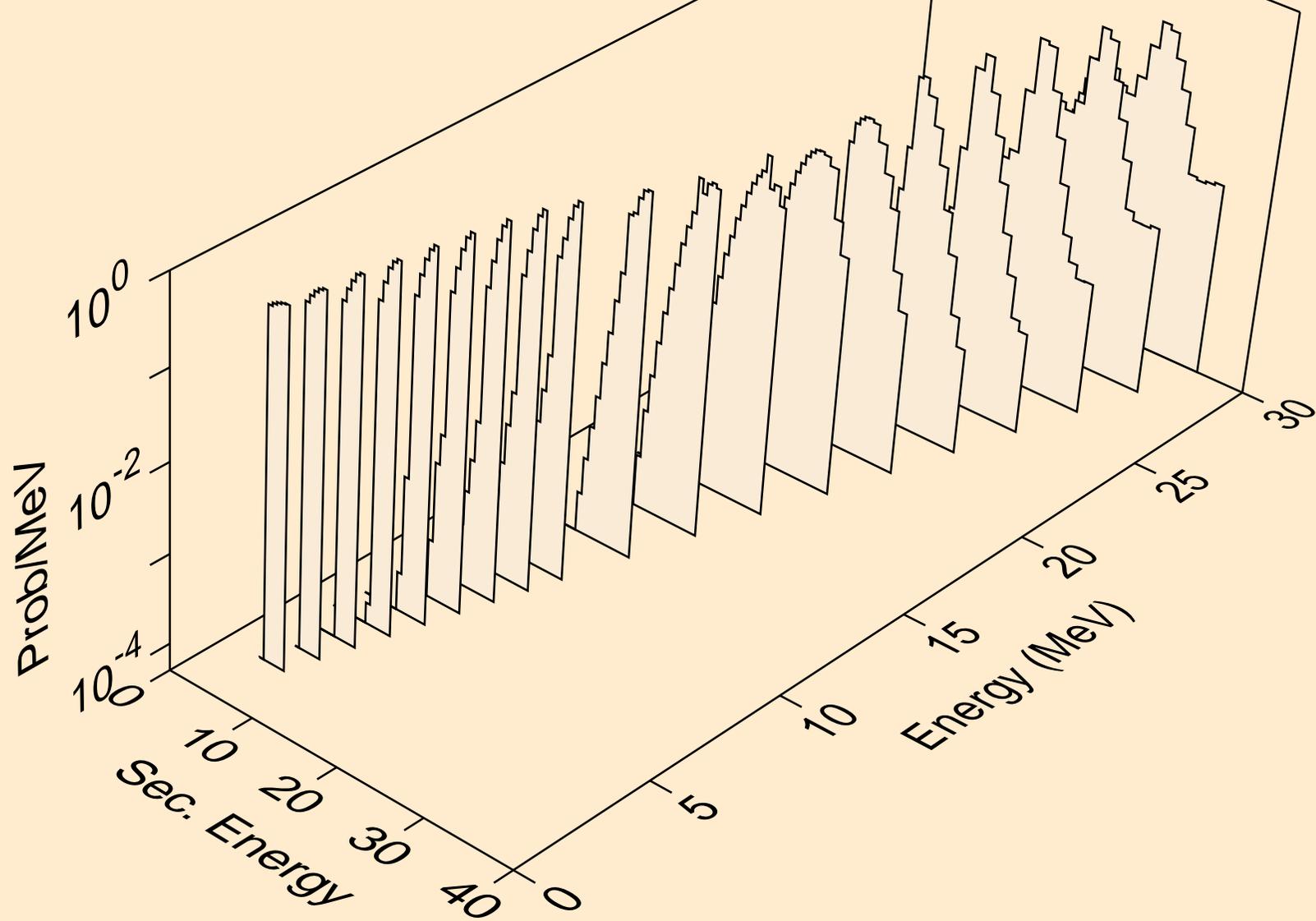PO210 PHOTON ACER TENDL-2021 LIBRARY; T=0.K
alphas from (g,pa)