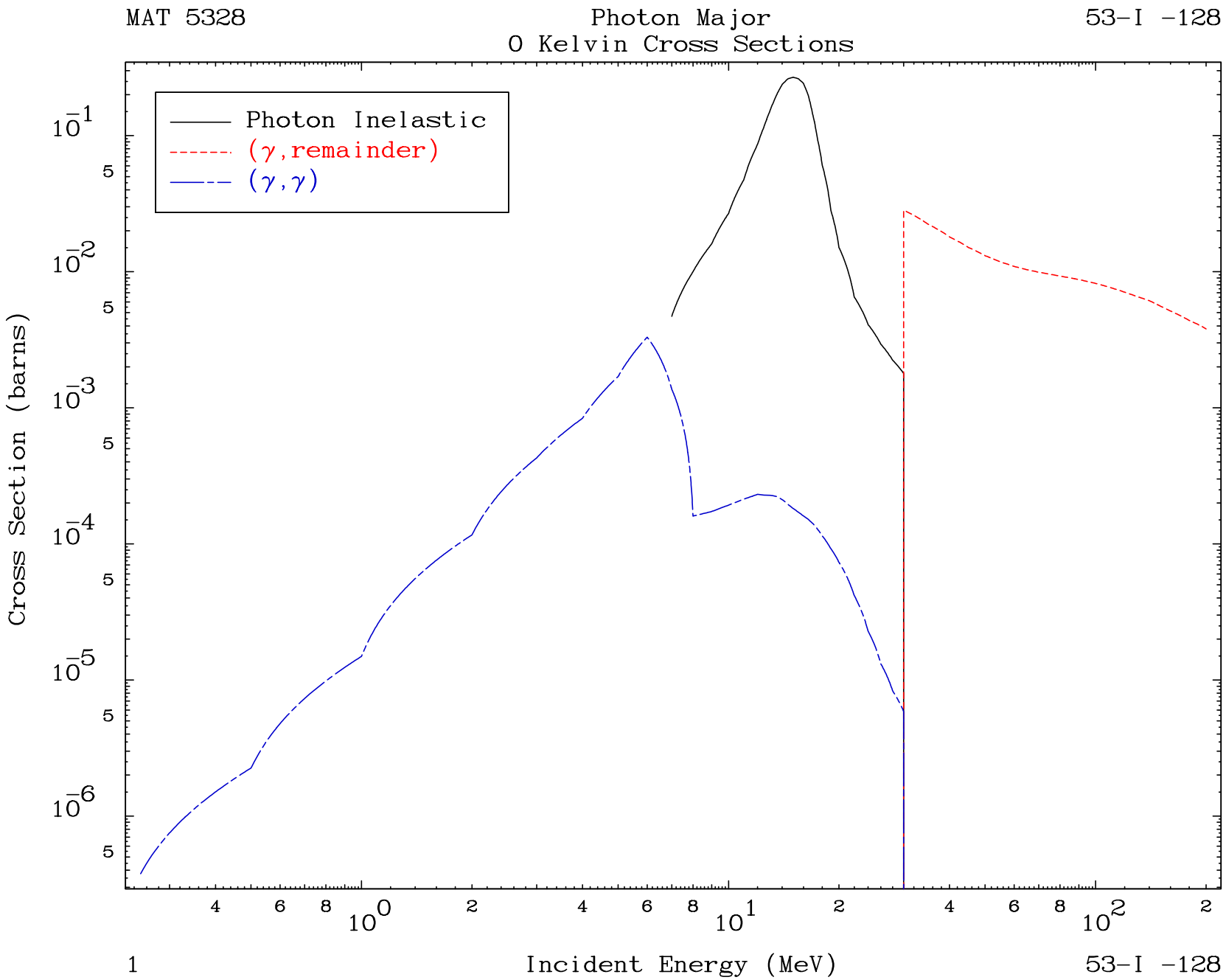
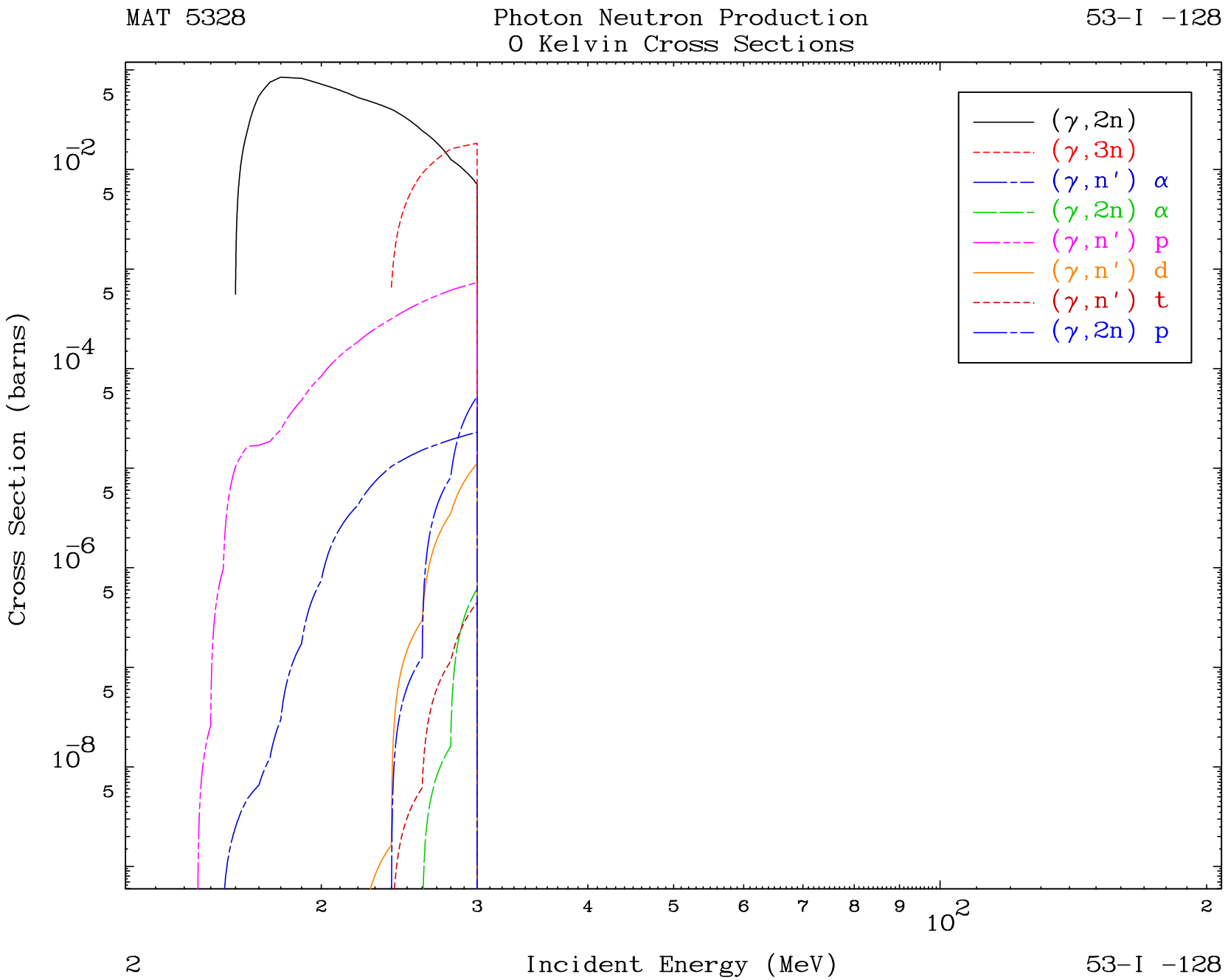
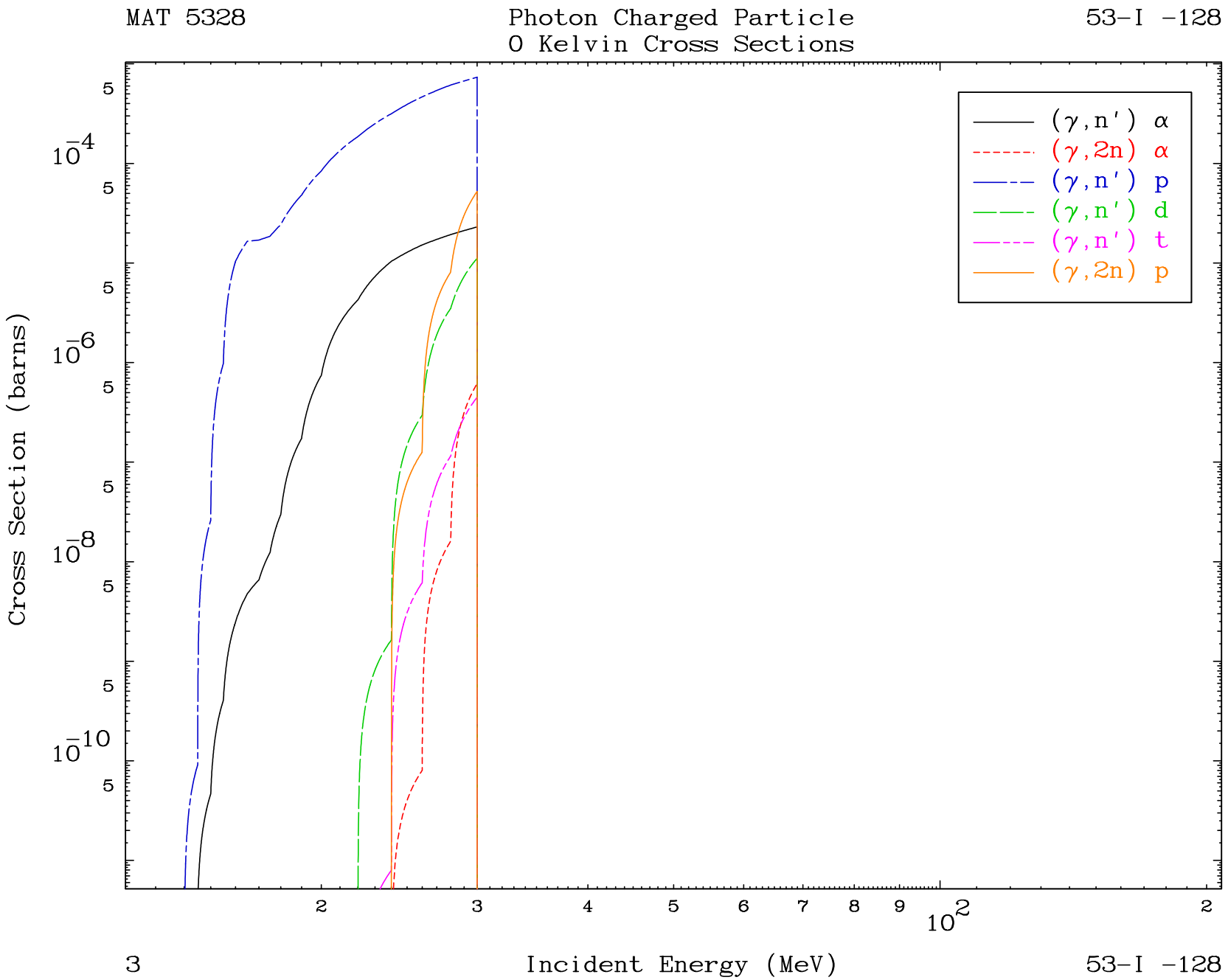
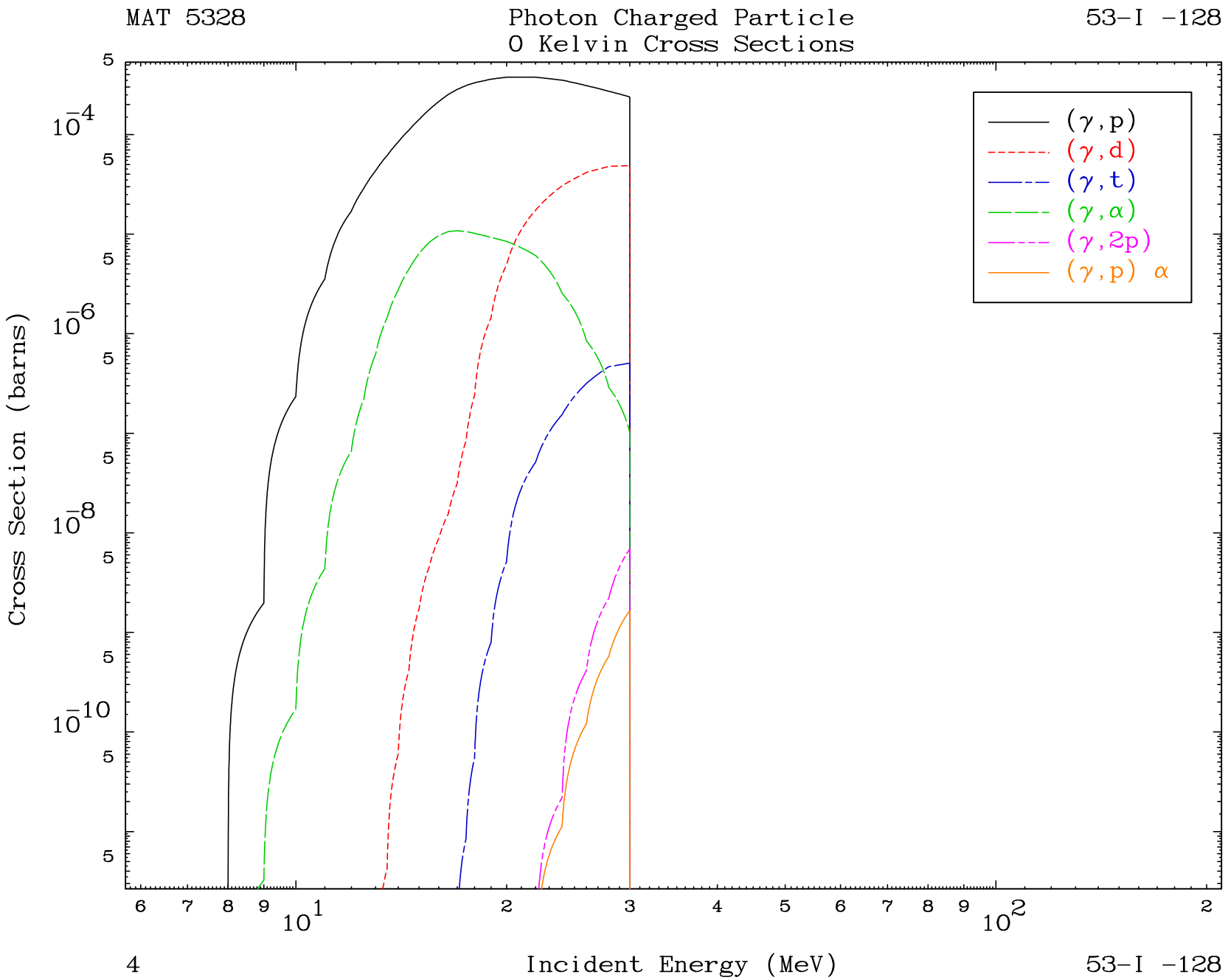
Program EVALPLOT
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

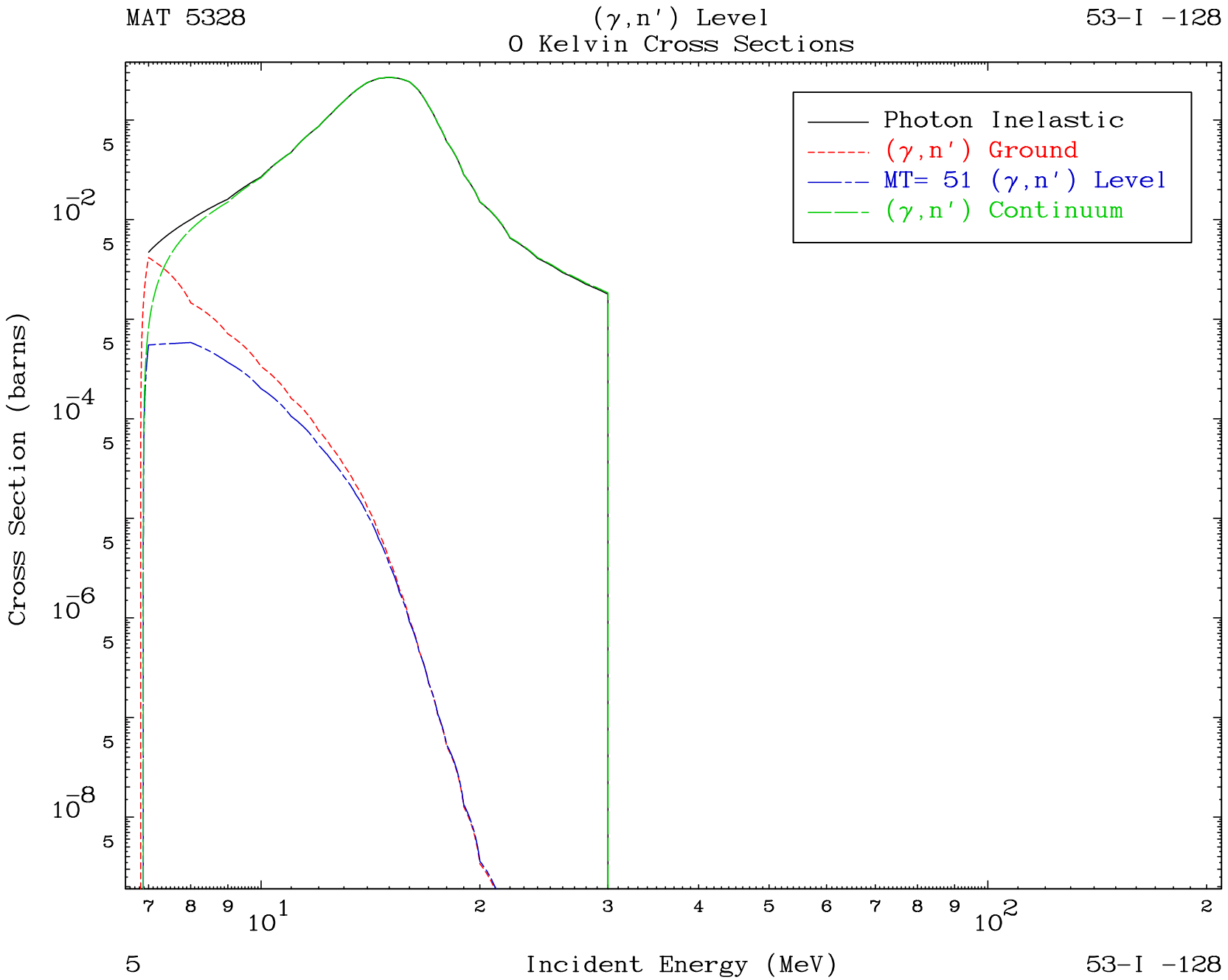
Press Mouse Button to Start

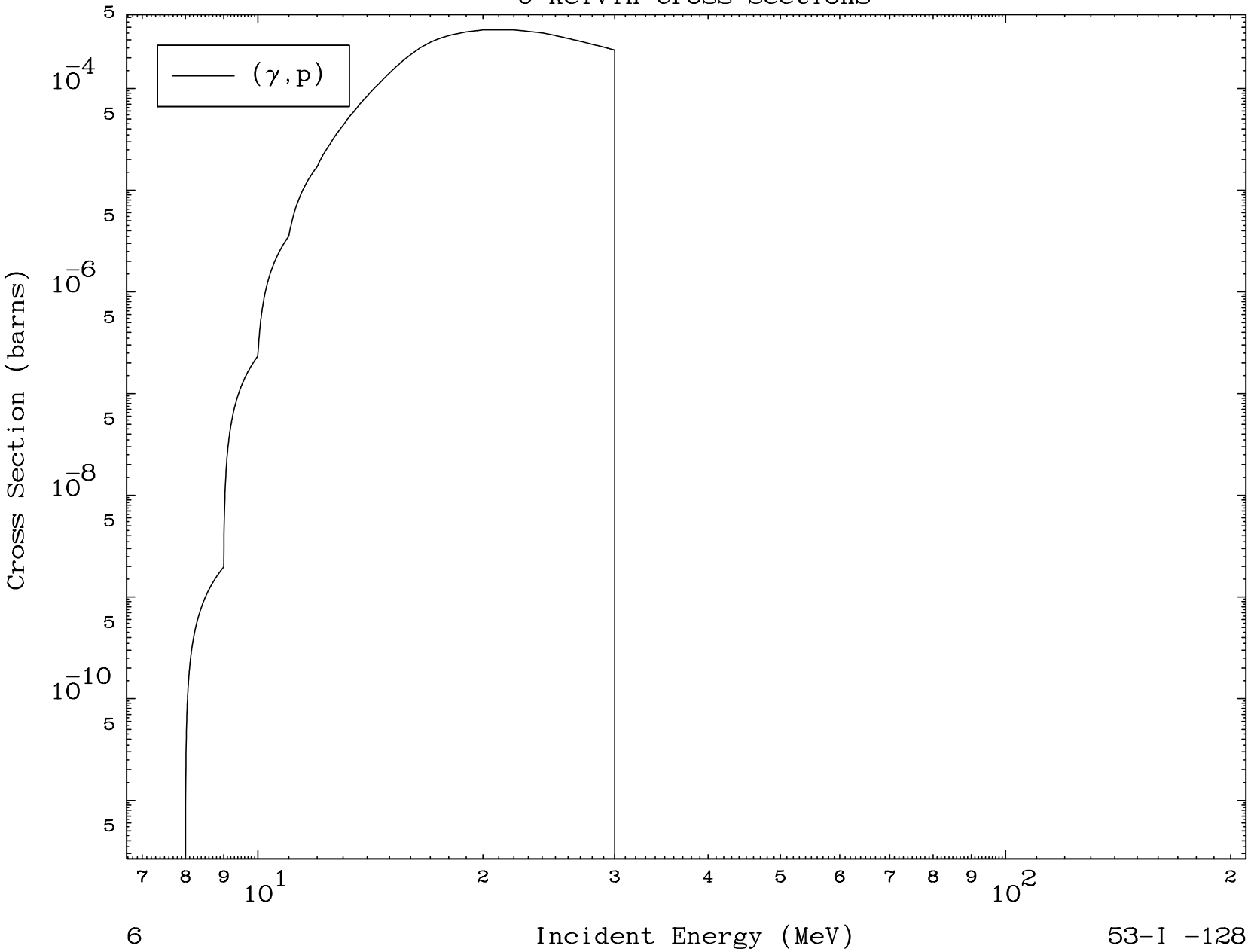

MAT 5328
Photon Major
53-I -128
0 Kelvin Cross Sections
Photon Inelastic
(γ,remainder)
(γ,γ)
Cross Section (barns)
Incident Energy (MeV)
53-I -128
1

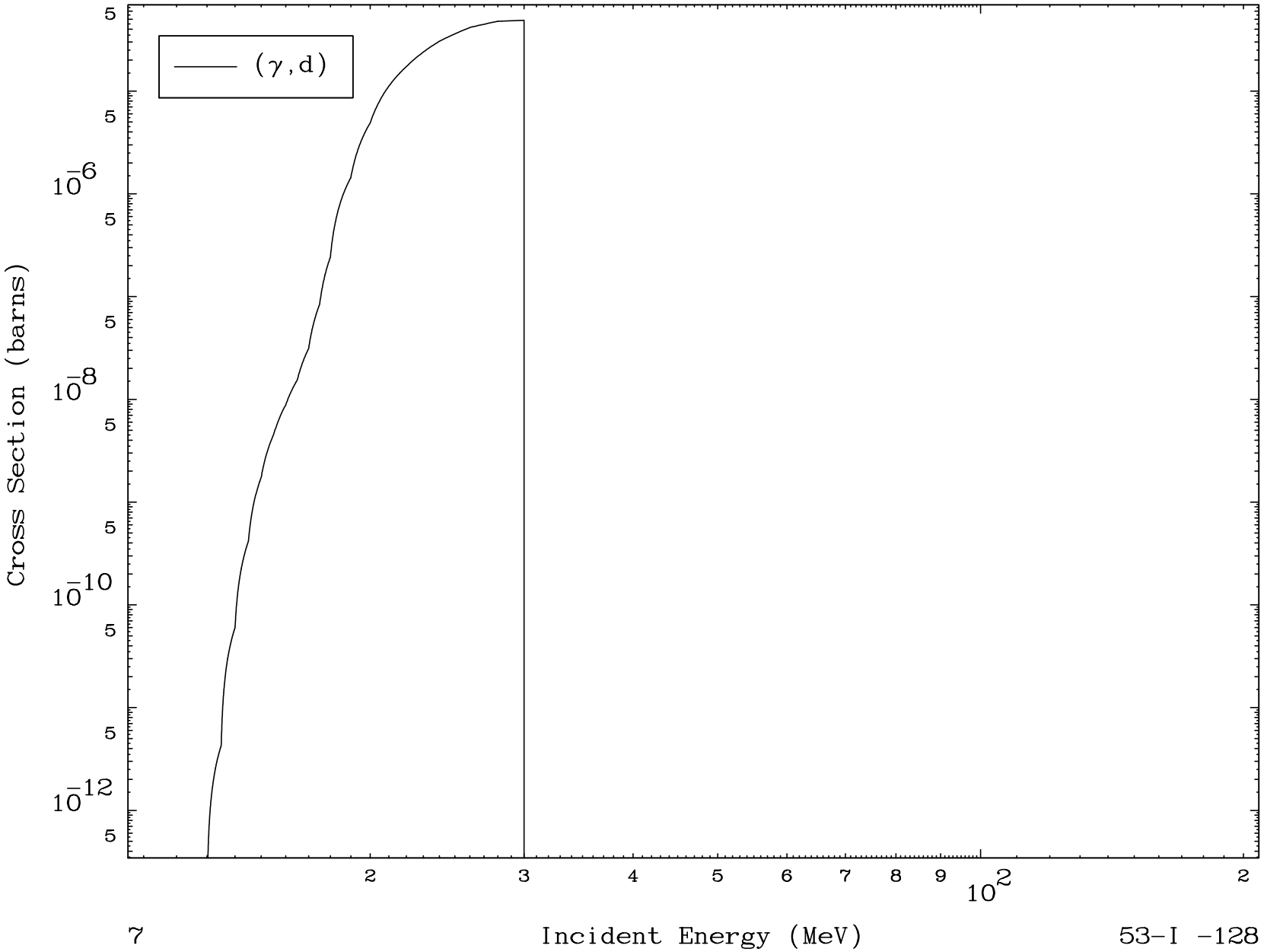

MAT 5328
Photon Neutron Production
0 Kelvin Cross Sections
53-I -128
Cross Section (barns)
10-2
10-4
10-6
10-8
(γ,2n)
(γ,3n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
2
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
53-I -128

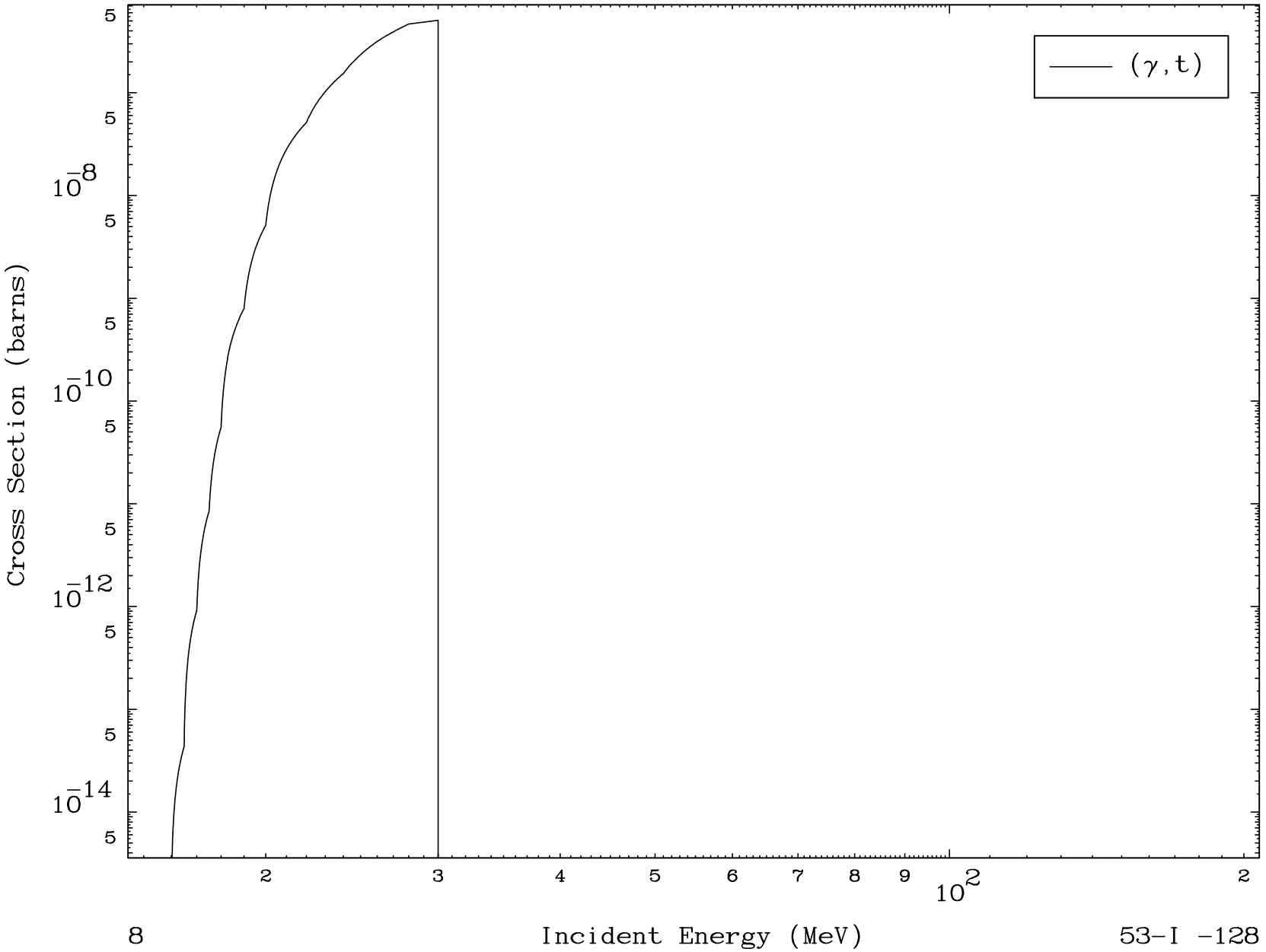

MAT 5328
Photon Charged Particle
0 Kelvin Cross Sections
53-I -128
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,n') t
(γ,2n) p
Cross Section (barns)
10⁻⁴
10⁻⁶
10⁻⁸
10⁻¹⁰
Incident Energy (MeV)
10²
3
53-I -128

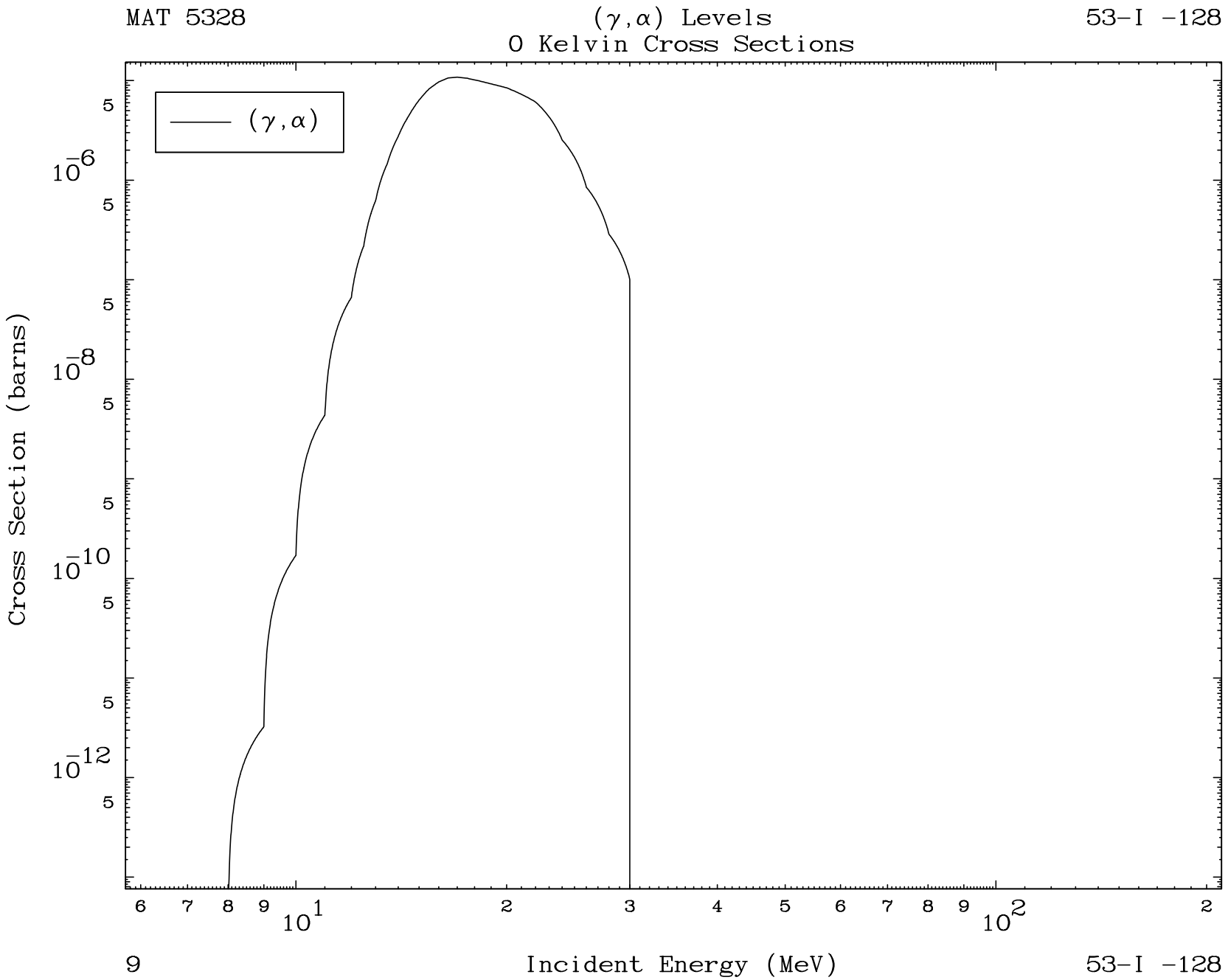

MAT 5328
Photon Charged Particle
0 Kelvin Cross Sections
53-I -128
(γ,p)
(γ,d)
(γ,t)
(γ,α)
(γ,2p)
(γ,p) α
Cross Section (barns)
Incident Energy (MeV)
4
53-I -128

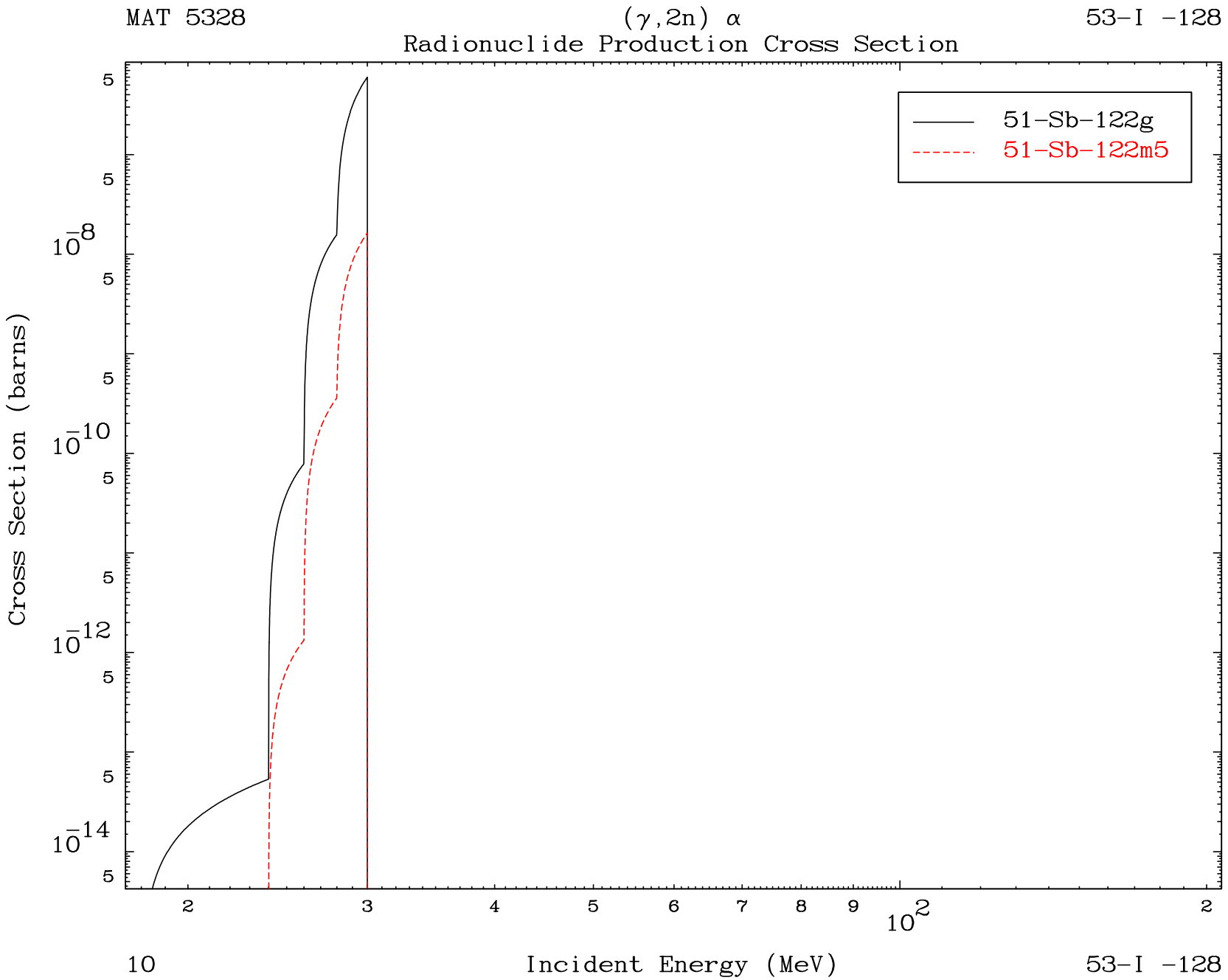

MAT 5328
(γ,n') Level
53-I -128
0 Kelvin Cross Sections
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum
Cross Section (barns)
10-2
10-4
10-6
10-8
7 8 9 10 1 2 3 4 5 6 7 8 9 10 2 2
Incident Energy (MeV)
5
53-I -128

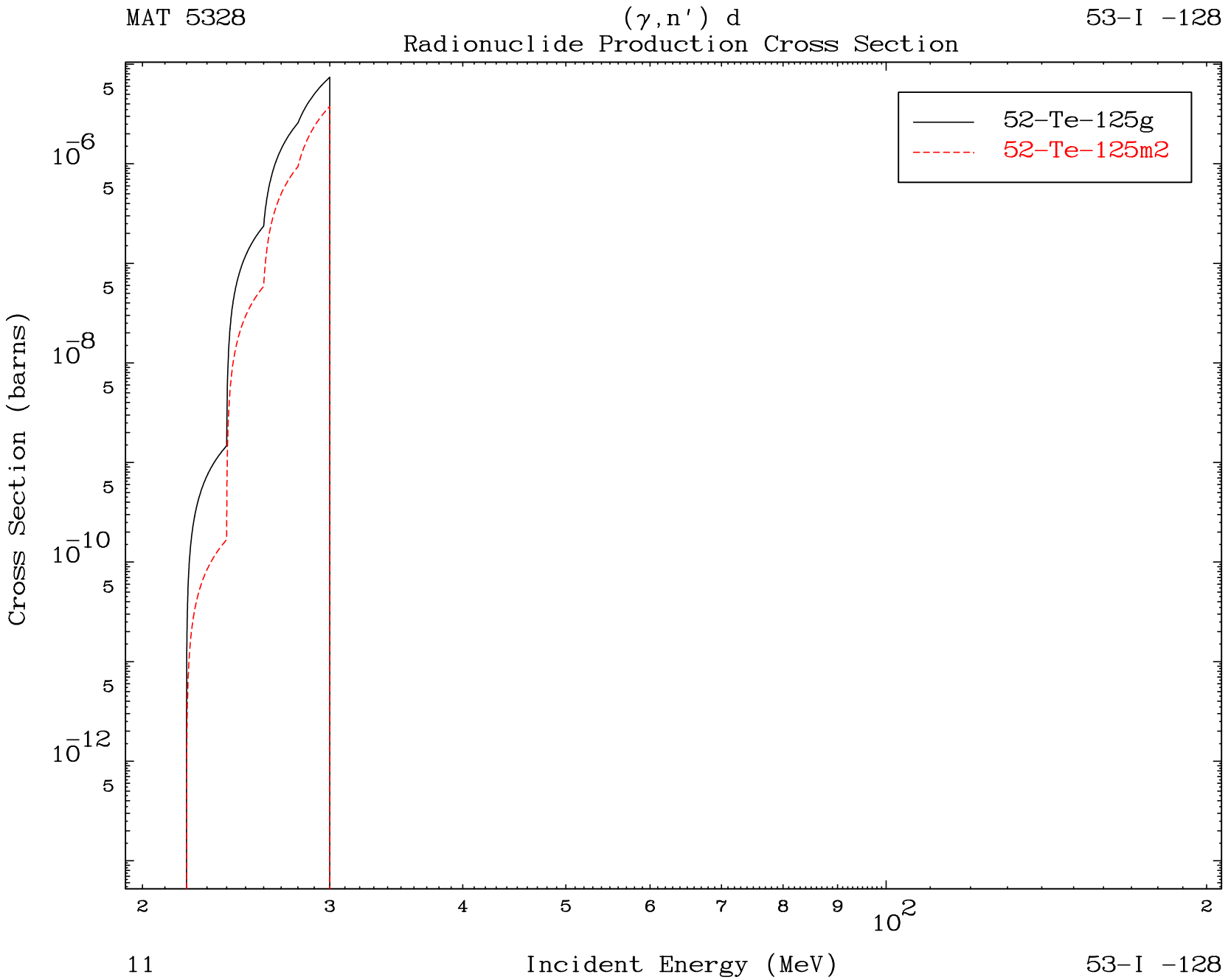

0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)

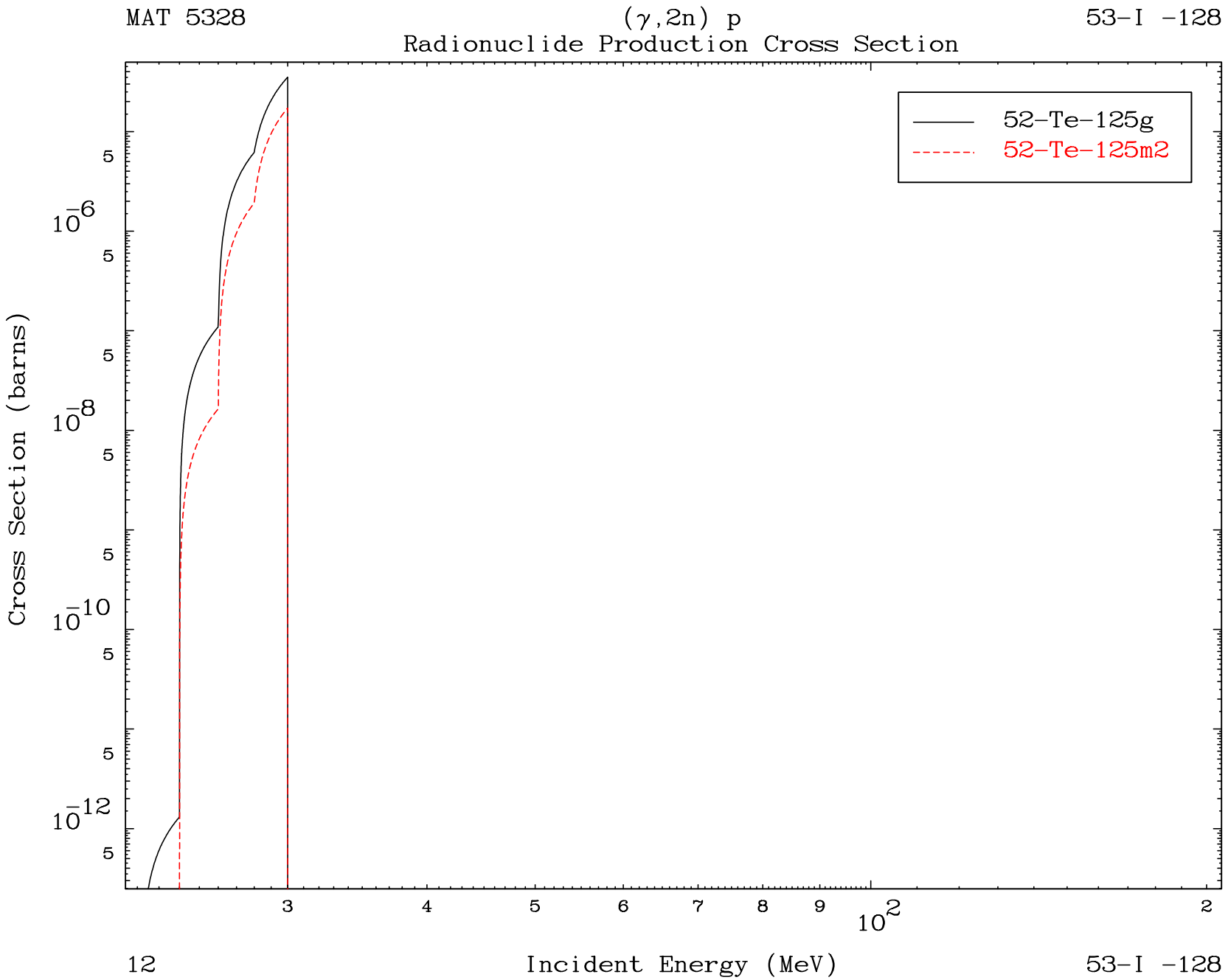

0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
5
5
10^-6
5
10^-8
5
10^-10
5
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

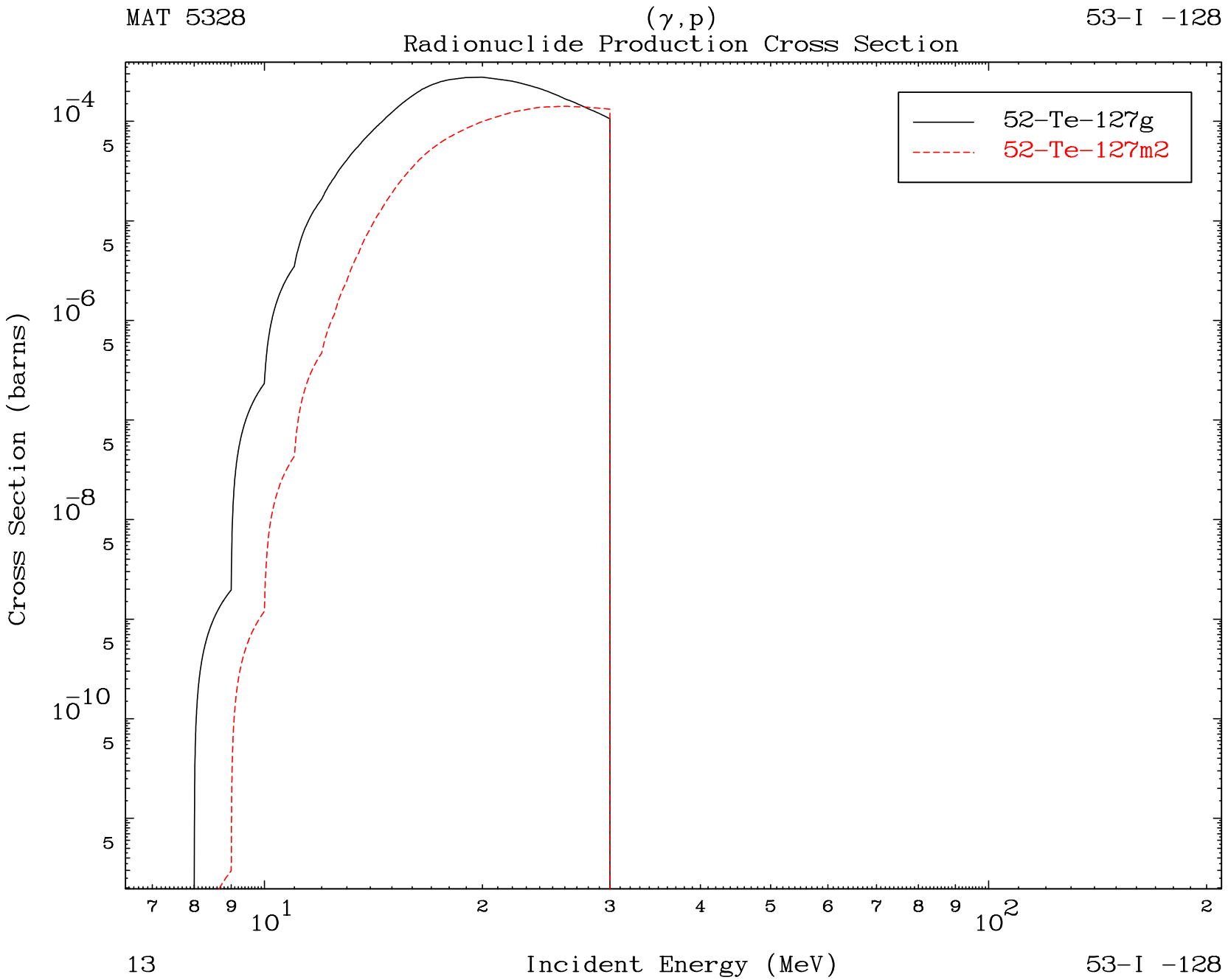

0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
5
5
10^-8
5
5
10^-10
5
5
10^-12
5
5
10^-14
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

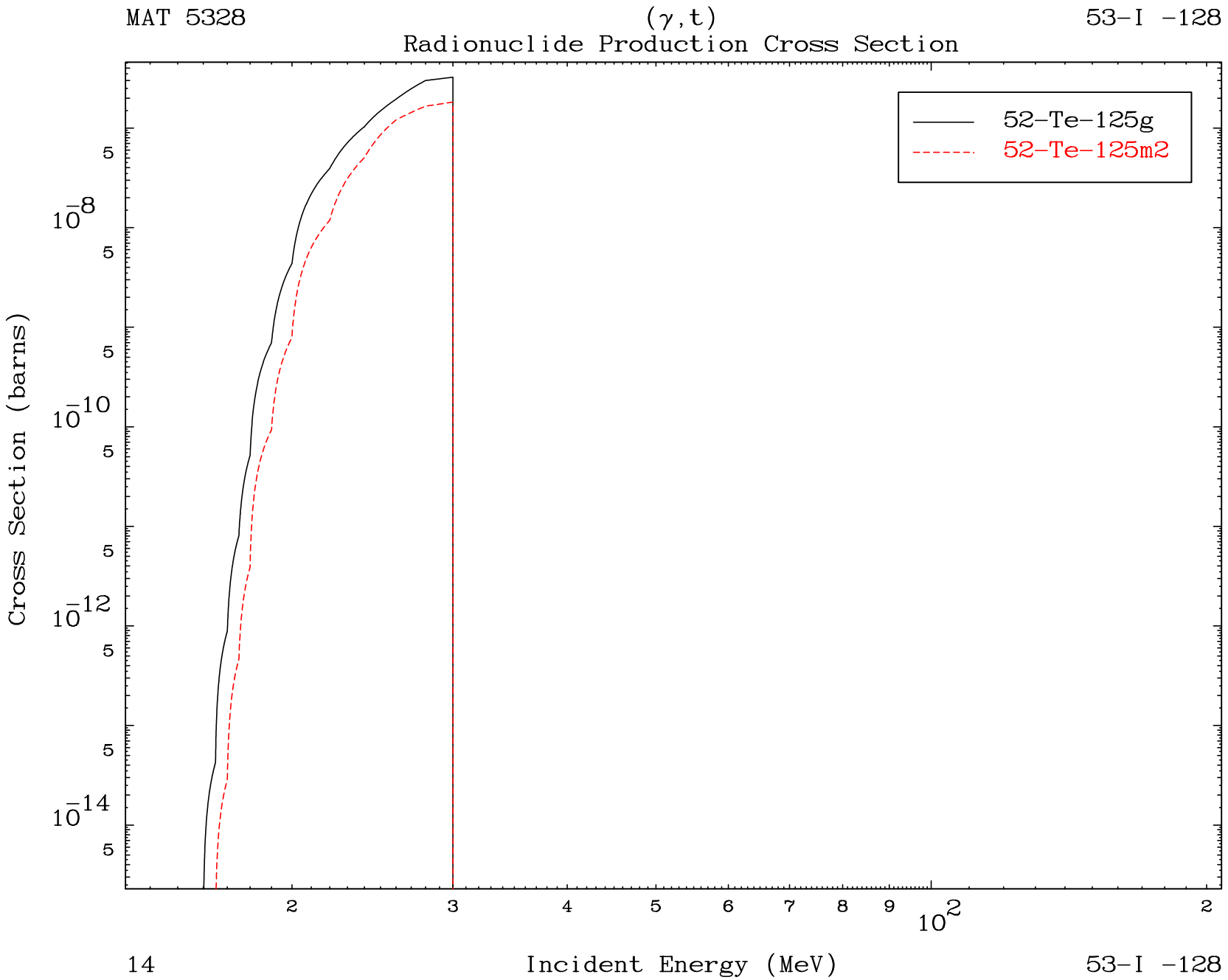

MAT 5328
(γ,α) Levels
53-I -128
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
6 7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
9
53-I -128

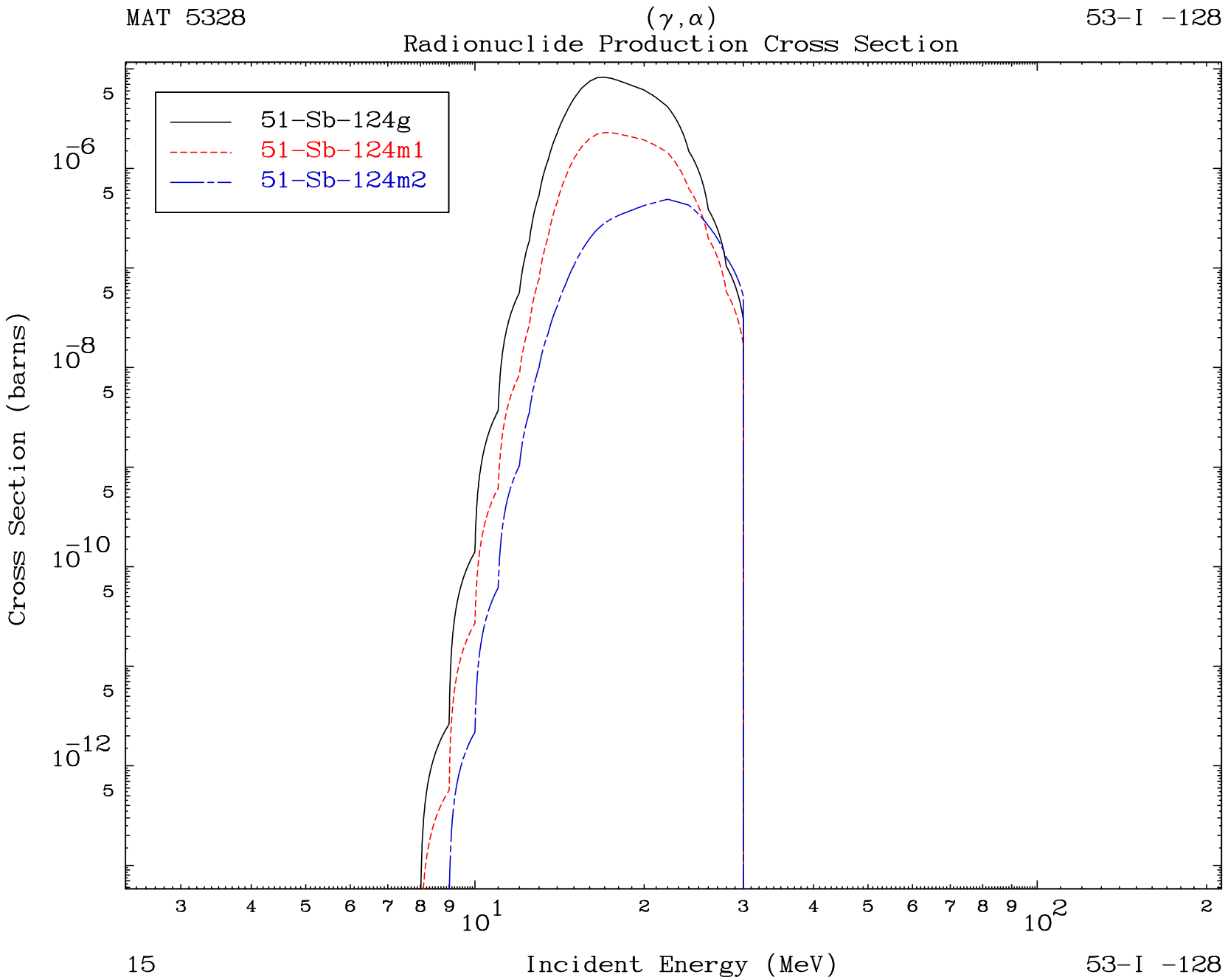

MAT 5328
(γ,2n) α
53-I -128
Radionuclide Production Cross Section
51-Sb-122g
51-Sb-122m5
Cross Section (barns)
Incident Energy (MeV)
10
53-I -128

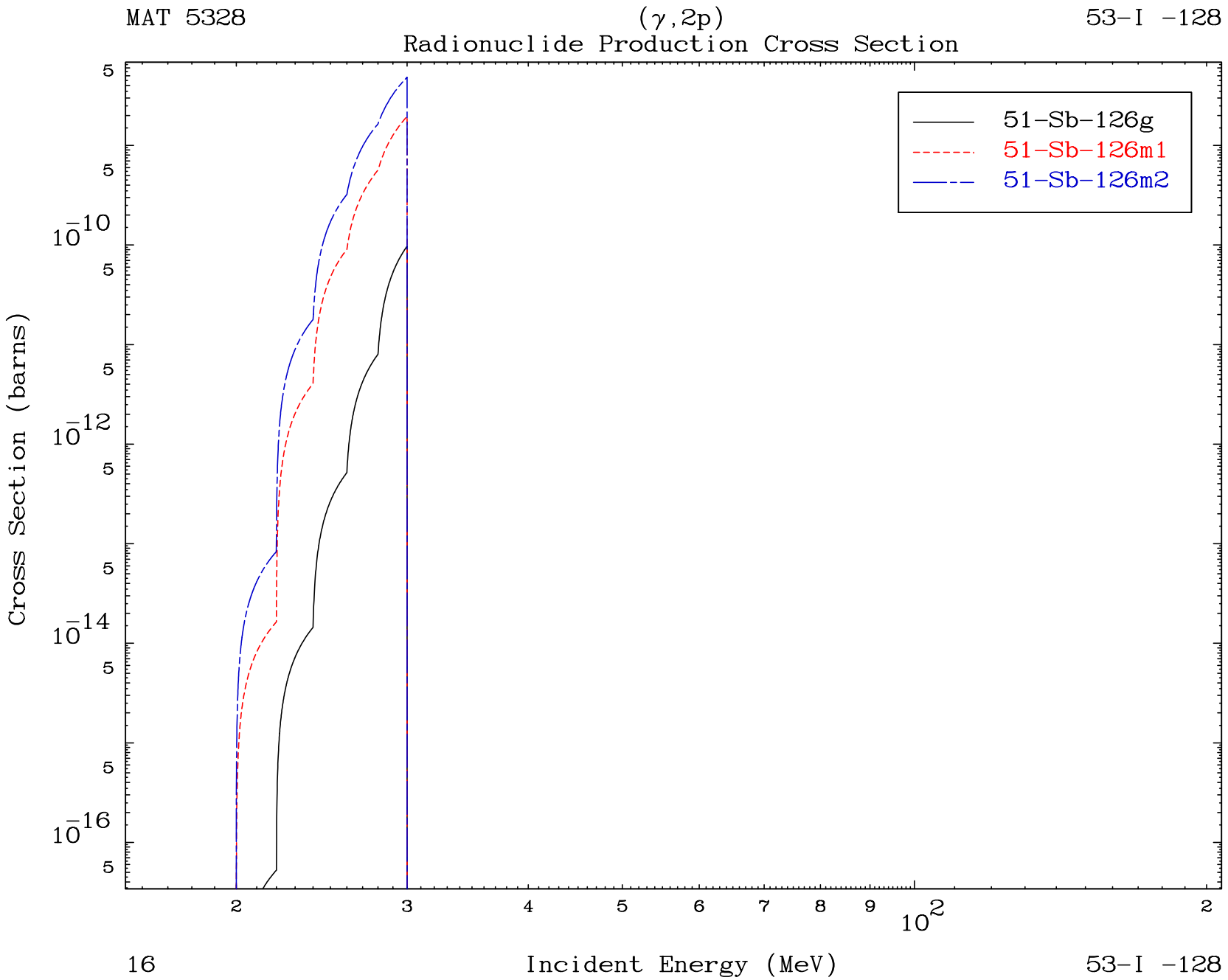

MAT 5328
(γ,n') d
53-I -128
Radionuclide Production Cross Section
52-Te-125g
52-Te-125m2
Cross Section (barns)
10-6
10-8
10-10
10-12
2
3
4
5
6
7
8
9
10 2
2
11
Incident Energy (MeV)
53-I -128

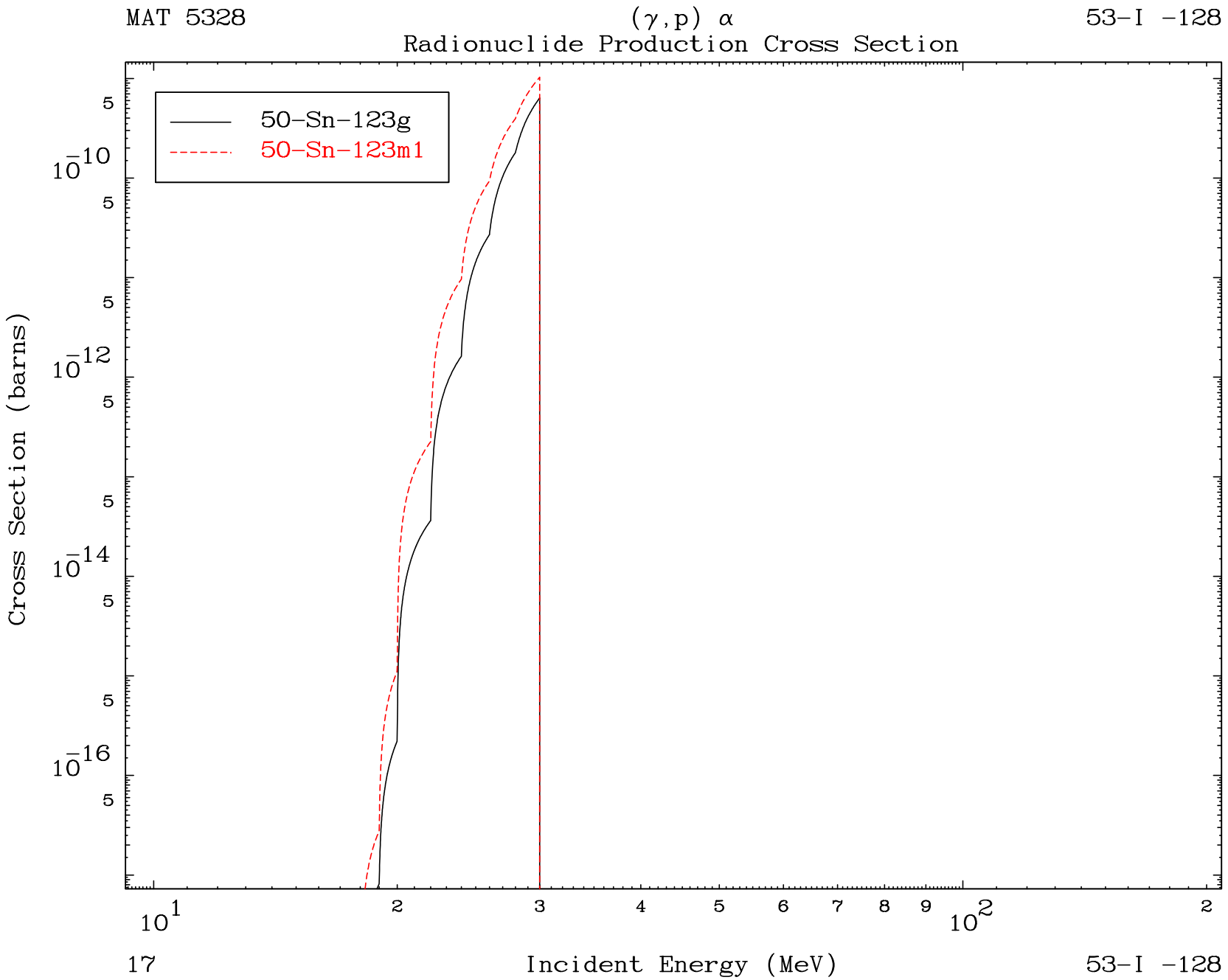

MAT 5328
(γ,2n) p
53-I -128
Radionuclide Production Cross Section
52-Te-125g
52-Te-125m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
53-I -128


MAT 5328
(γ,p)
53-I -128
Radionuclide Production Cross Section
52-Te-127g
52-Te-127m2
Cross Section (barns)
10-4
10-6
10-8
10-10
Incident Energy (MeV)
13
53-I -128


MAT 5328
(γ,t)
53-I -128
Radionuclide Production Cross Section
52-Te-125g
52-Te-125m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
53-I -128


MAT 5328
(γ,α)
53-I -128
Radionuclide Production Cross Section
51-Sb-124g
51-Sb-124m1
51-Sb-124m2
Cross Section (barns)
Incident Energy (MeV)
15
53-I -128


MAT 5328
(γ,2p)
53-I -128
Radionuclide Production Cross Section
51-Sb-126g
51-Sb-126m1
51-Sb-126m2
Cross Section (barns)
Incident Energy (MeV)
16
53-I -128


MAT 5328
(γ,p) α
53-I -128
Radionuclide Production Cross Section
50-Sn-123g
50-Sn-123m1
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
10^1
2
3
4
5
6
7
8
9
10^2
2
17
Incident Energy (MeV)
53-I -128