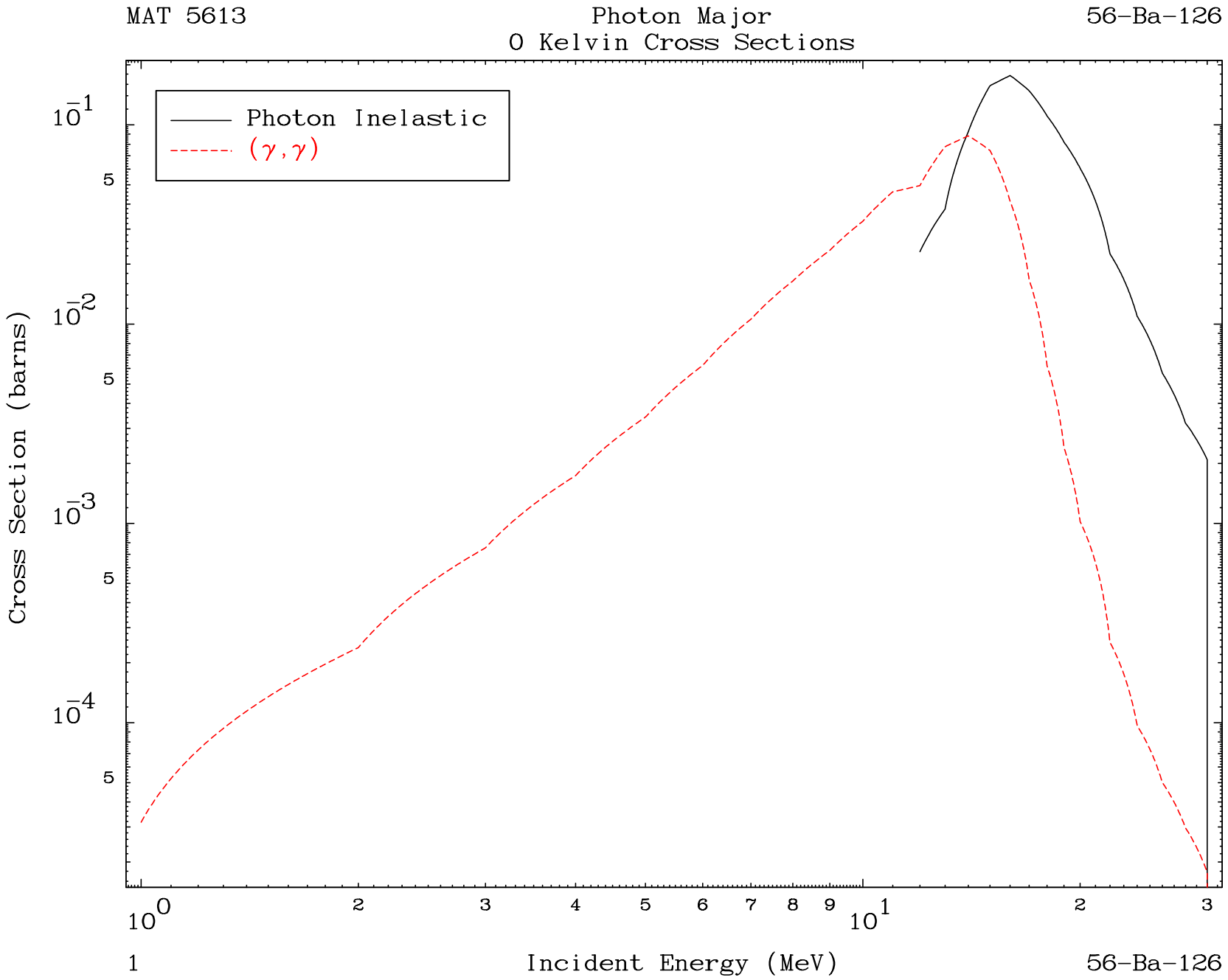
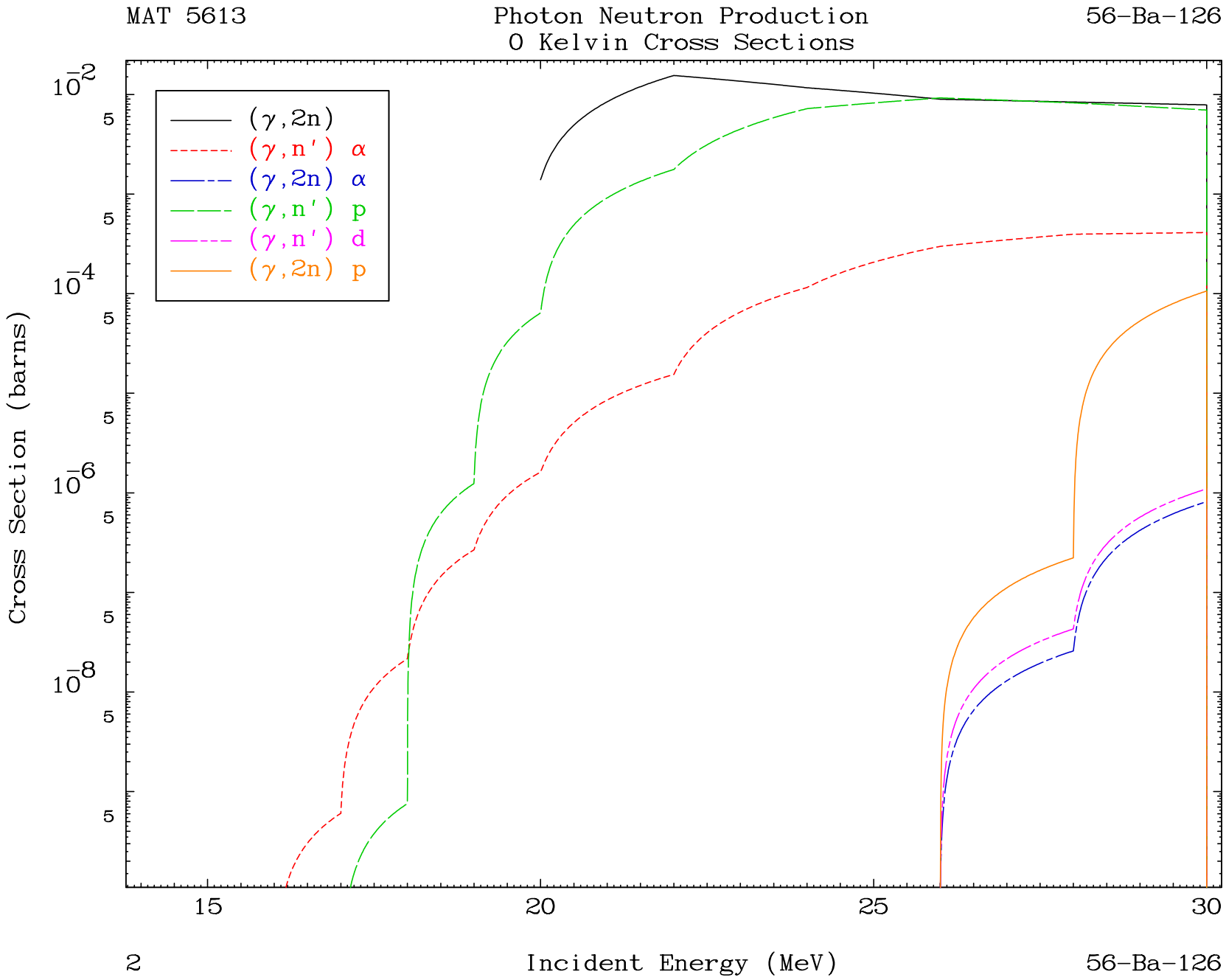
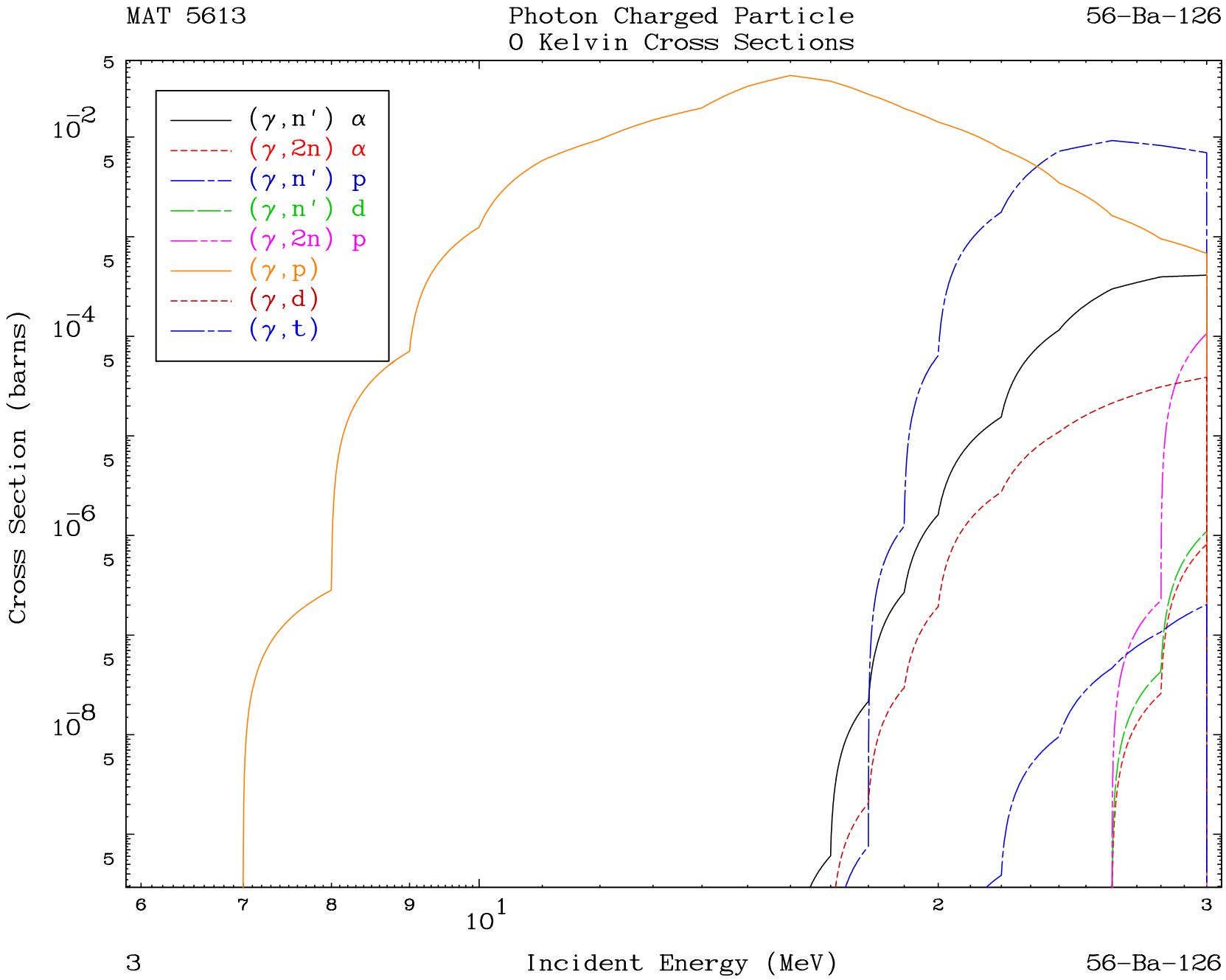
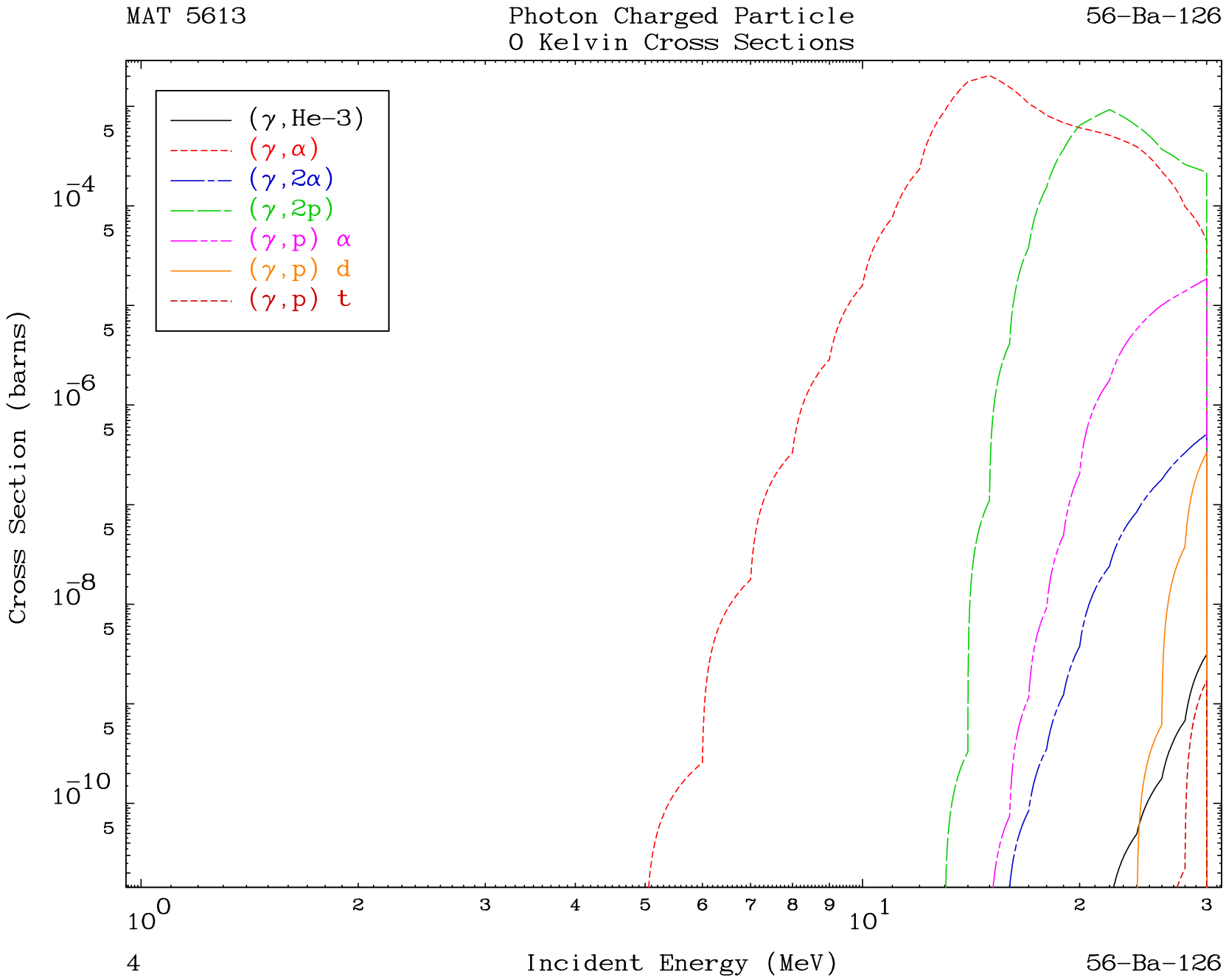
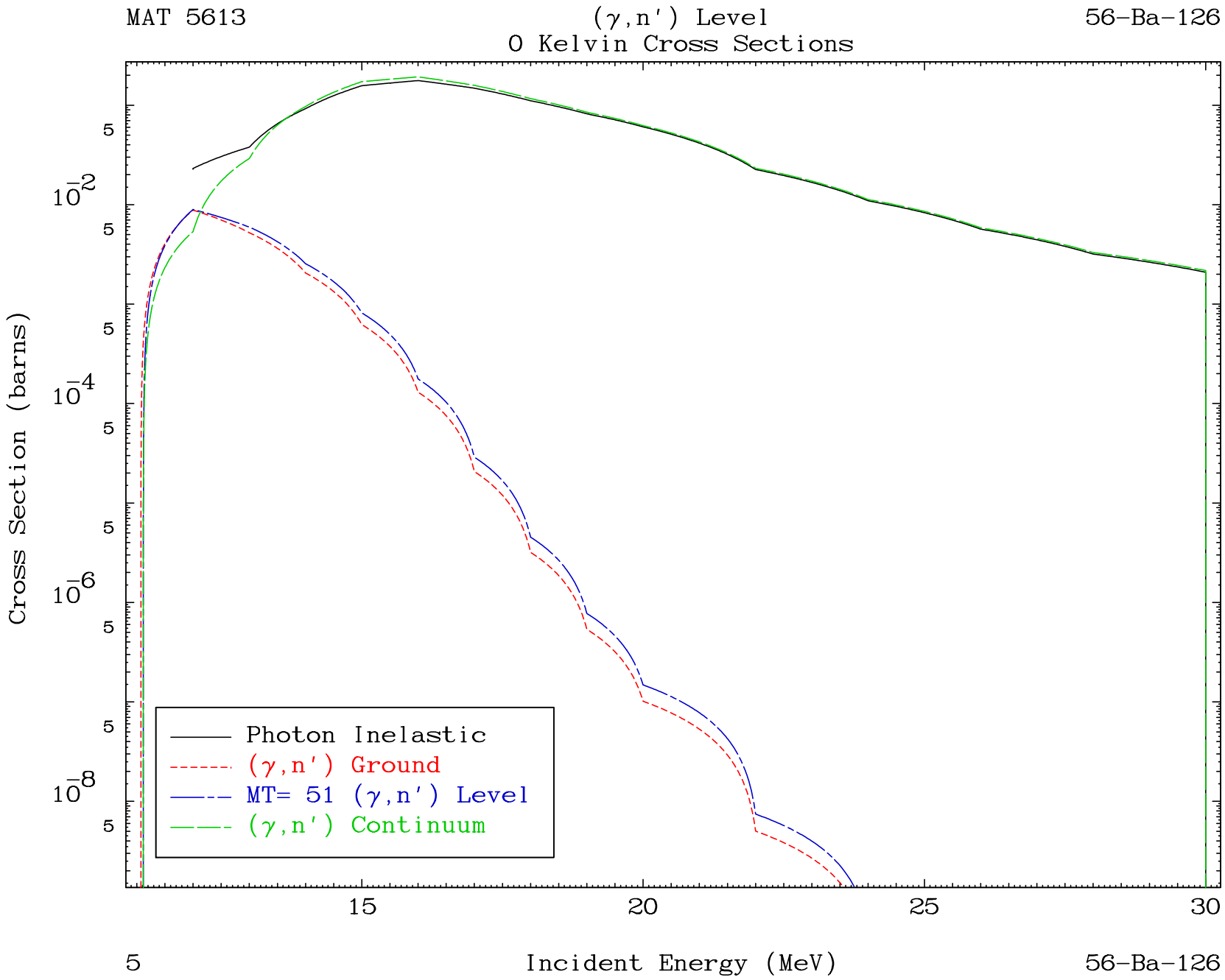
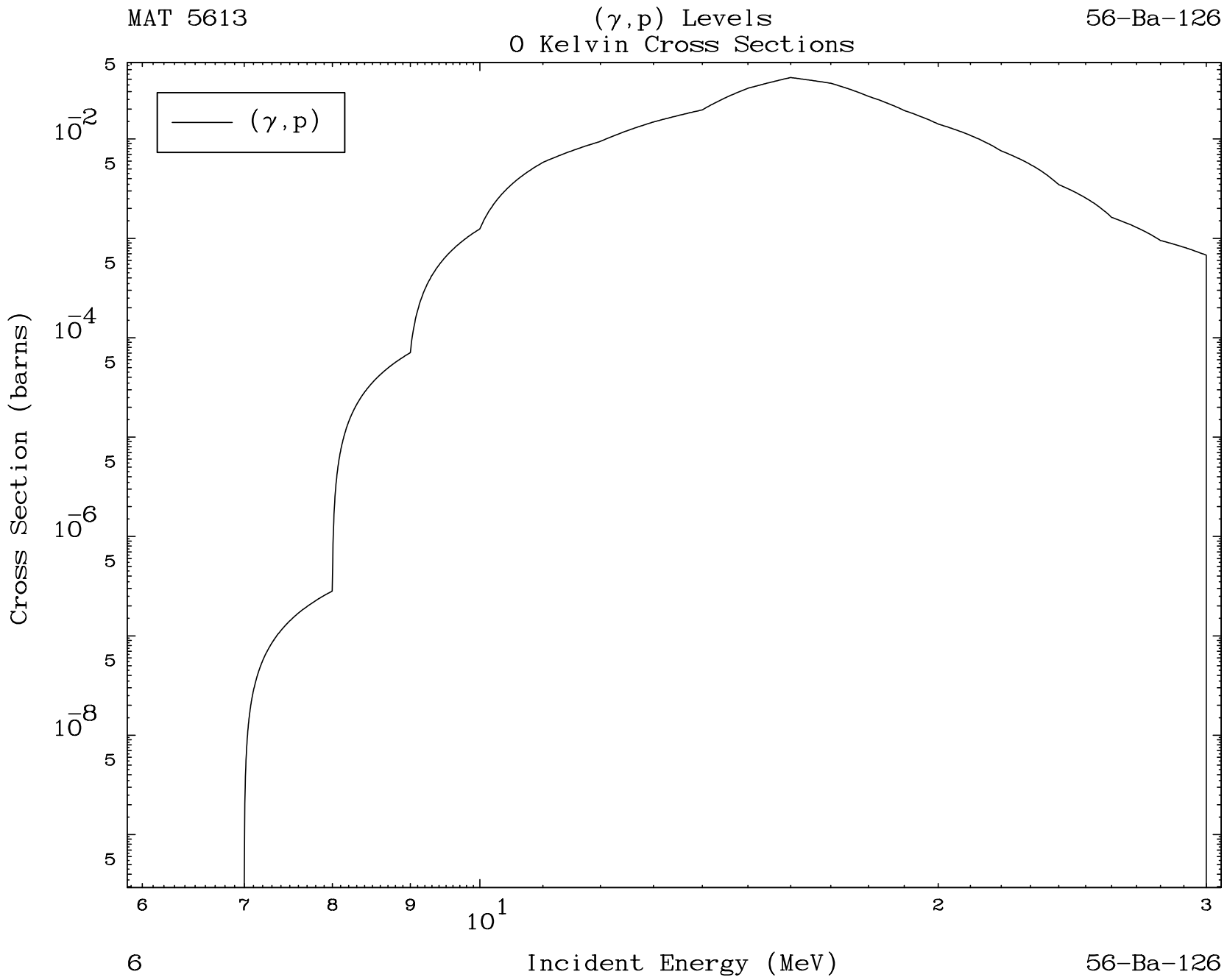

MAT 5613
Photon Major
56-Ba-126
0 Kelvin Cross Sections
Photon Inelastic
(γ,γ)
Cross Section (barns)
10-1
5
10-2
5
10-3
5
10-4
5
100
2
3
4
5
6
7
8
9
101
2
3
1
Incident Energy (MeV)
56-Ba-126

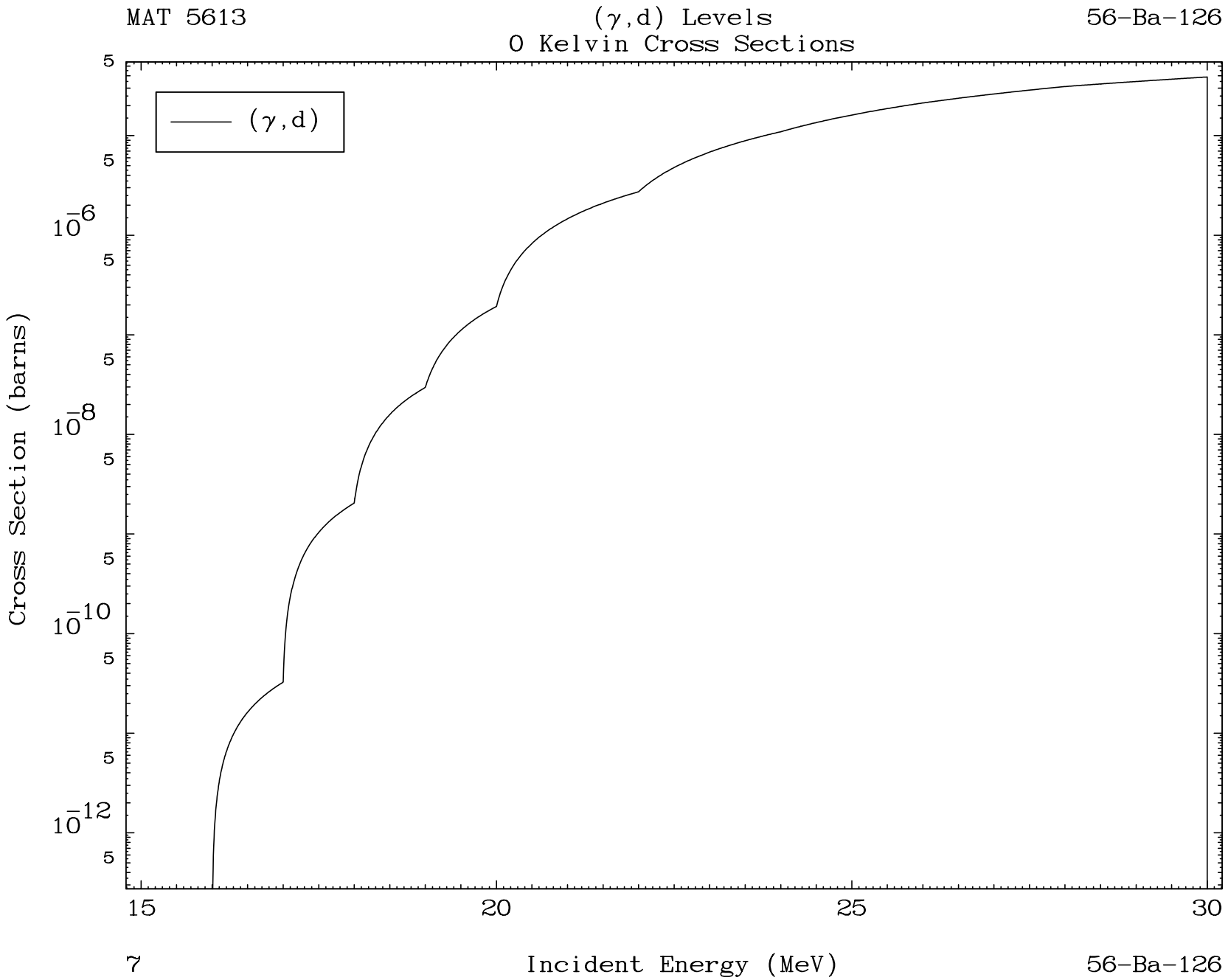

MAT 5613
Photon Neutron Production
0 Kelvin Cross Sections
56-Ba-126
(γ,2n)
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,2n) p
Cross Section (barns)
10-2
10-4
10-6
10-8
15
20
25
30
2
Incident Energy (MeV)
56-Ba-126

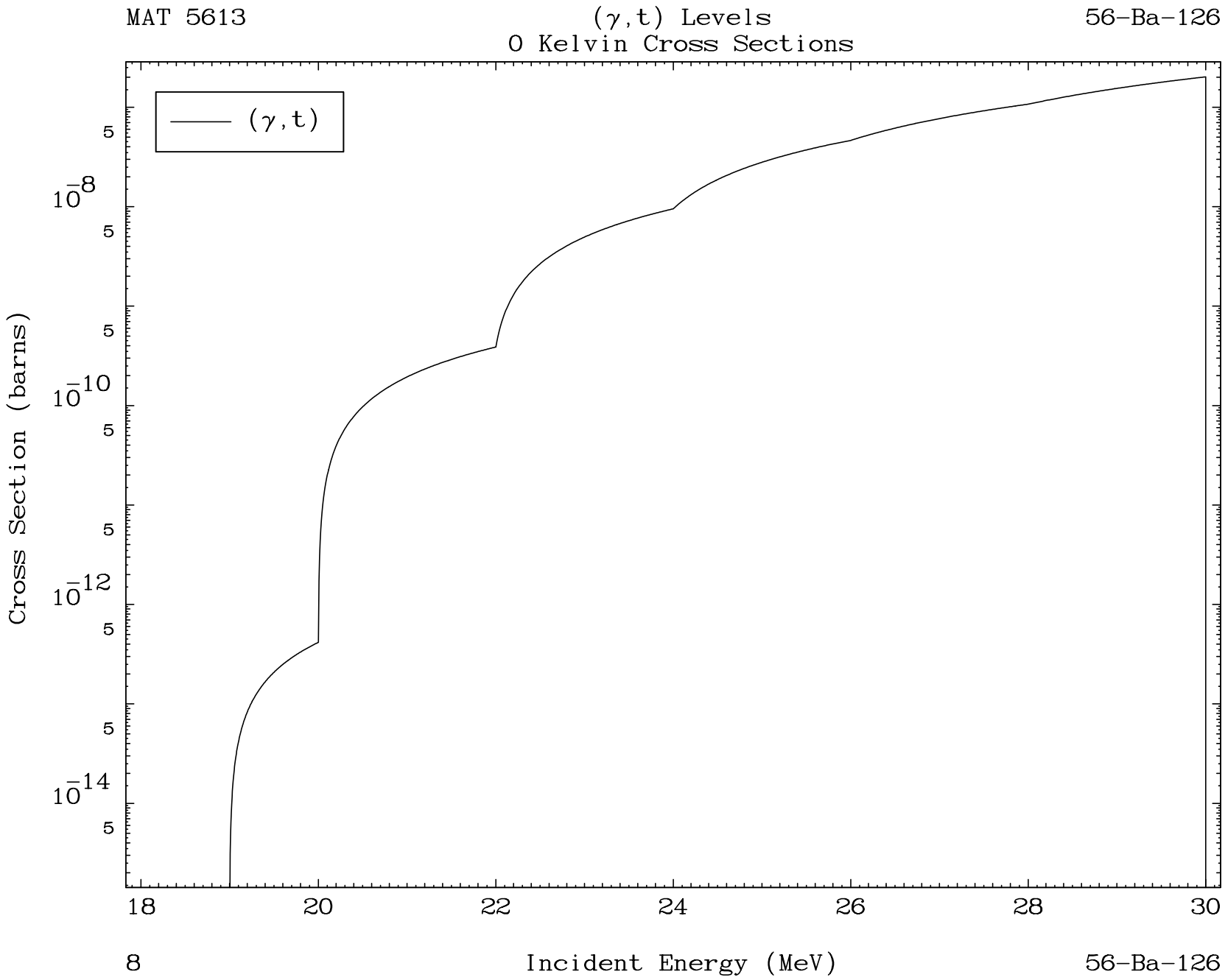

MAT 5613
Photon Charged Particle
0 Kelvin Cross Sections
56-Ba-126
(γ,n') α
(γ,2n) α
(γ,n') p
(γ,n') d
(γ,2n) p
(γ,p)
(γ,d)
(γ,t)
Cross Section (barns)
10-2
10-4
10-6
10-8
6
7
8
9
10 1
2
3
Incident Energy (MeV)
3
56-Ba-126

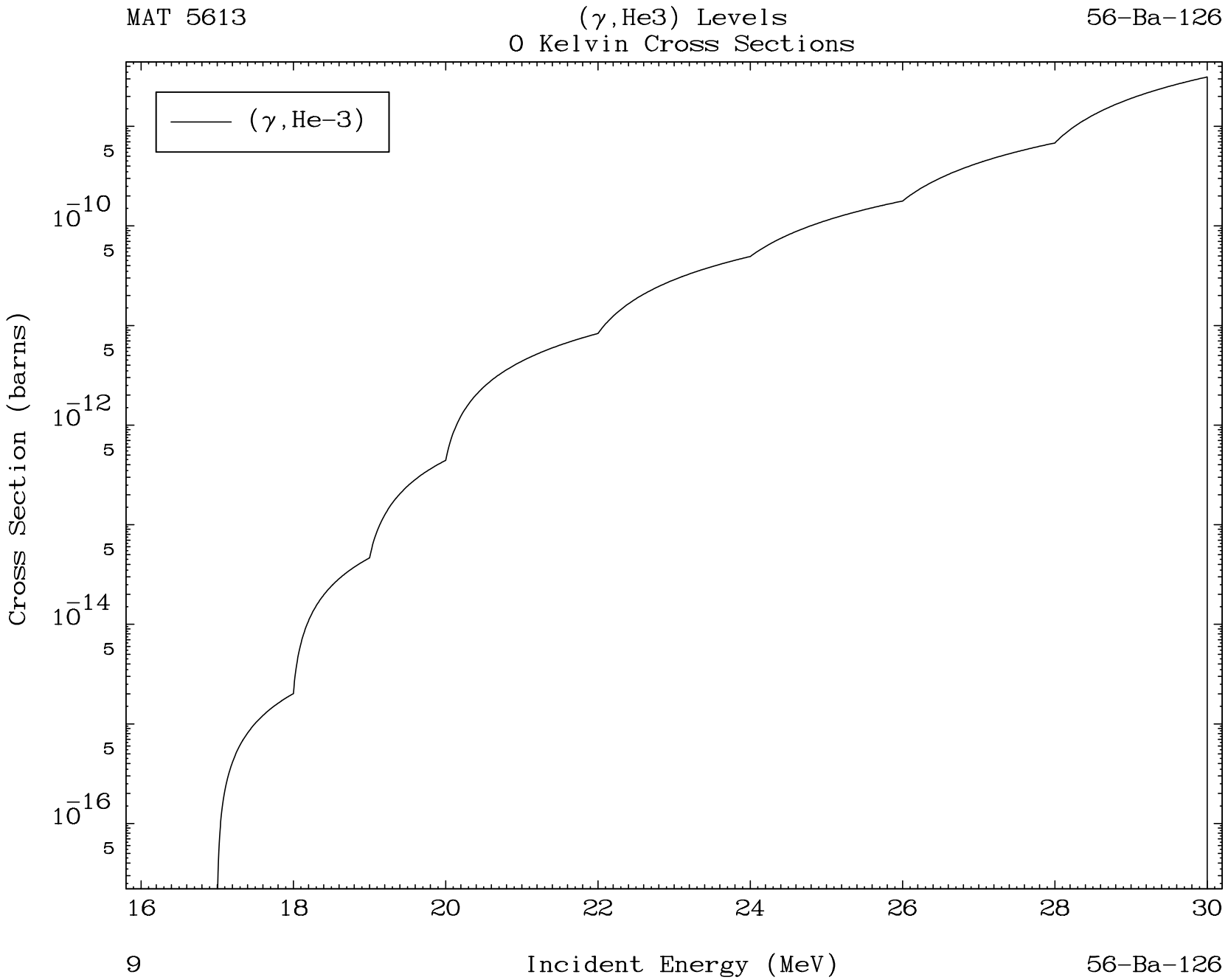

MAT 5613
Photon Charged Particle
0 Kelvin Cross Sections
56-Ba-126
(γ,He-3)
(γ,α)
(γ,2α)
(γ,2p)
(γ,p) α
(γ,p) d
(γ,p) t
Cross Section (barns)
Incident Energy (MeV)
56-Ba-126
4

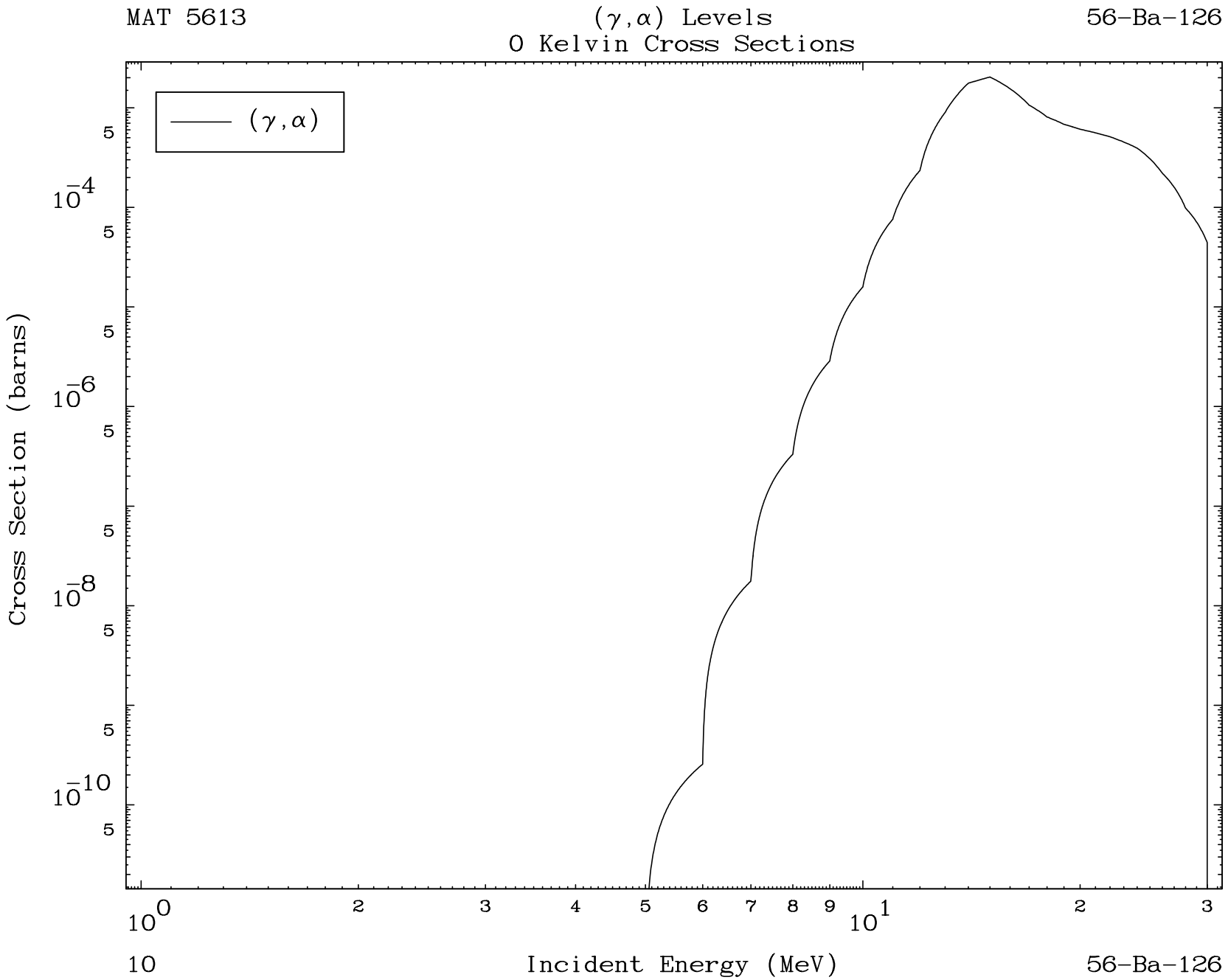

MAT 5613
(γ,n') Level
56-Ba-126
0 Kelvin Cross Sections
Cross Section (barns)
10-2
10-4
10-6
10-8
5
15
20
25
30
Incident Energy (MeV)
56-Ba-126
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
(γ,n') Continuum

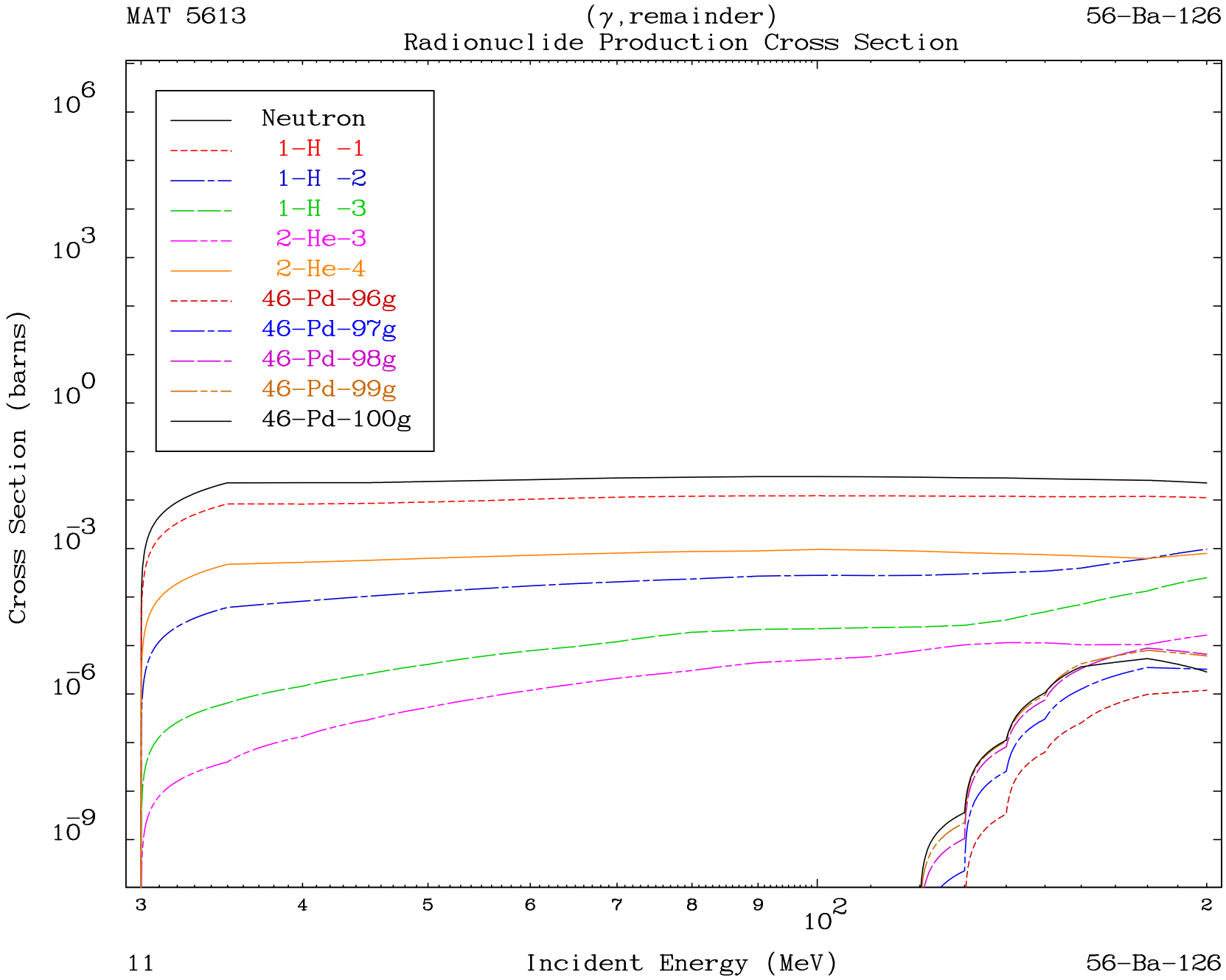

MAT 5613
(γ,p) Levels
56-Ba-126
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
6
7
8
9
10 1
2
3
6
Incident Energy (MeV)
56-Ba-126

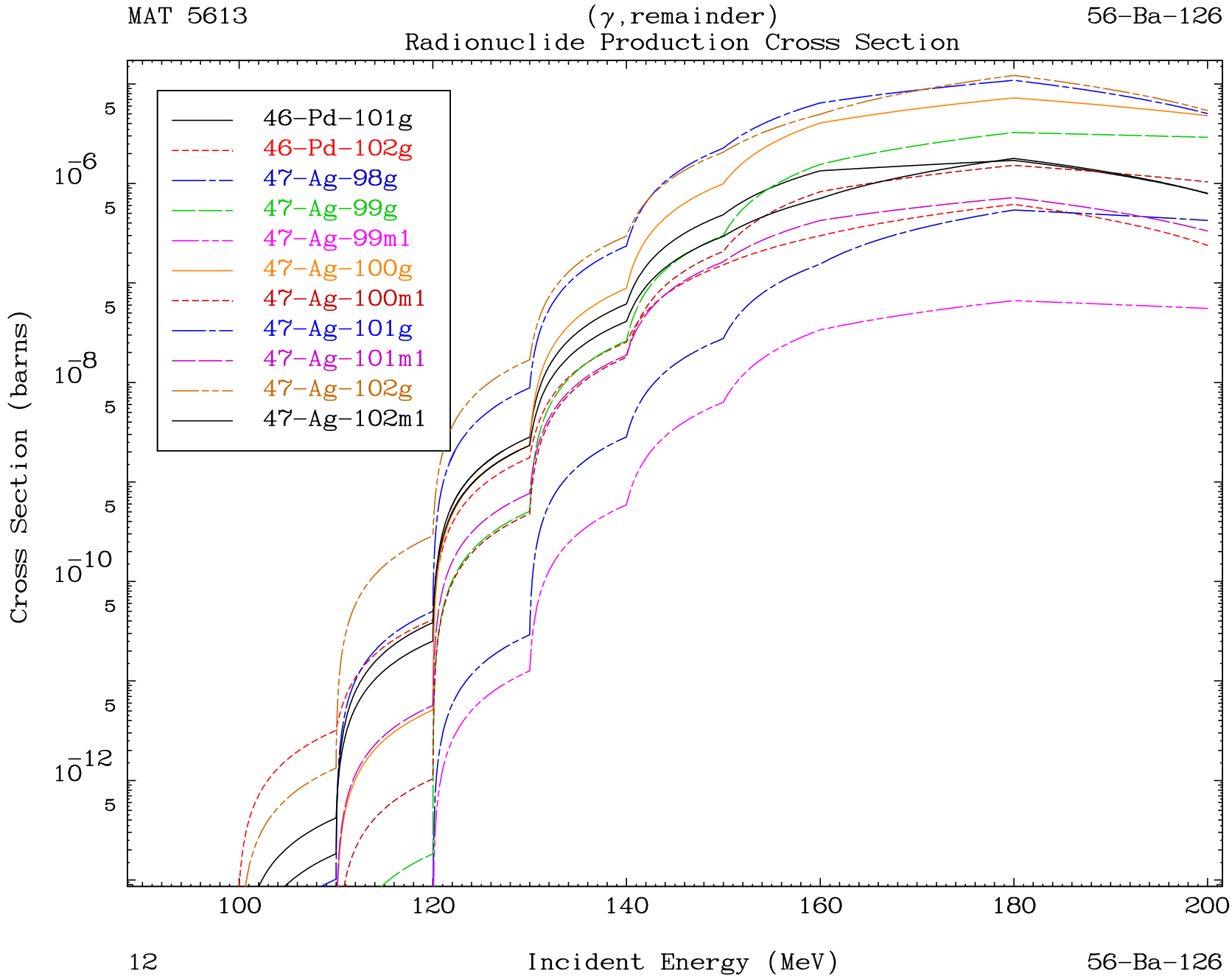

MAT 5613
(γ,d) Levels
56-Ba-126
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
15
20
25
30
7
Incident Energy (MeV)
56-Ba-126

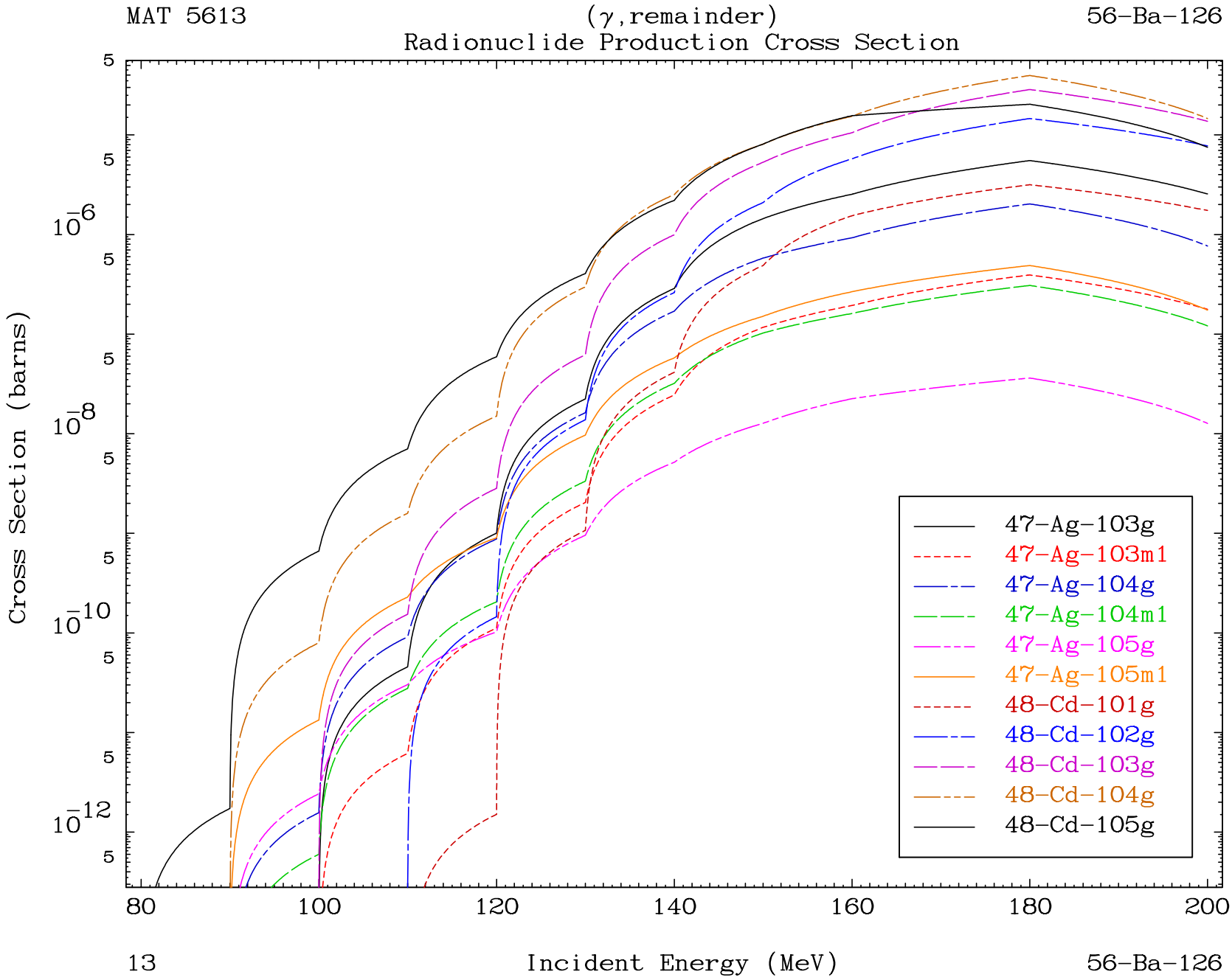

MAT 5613
(γ,t) Levels
56-Ba-126
0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
18
20
22
24
26
28
30
8
Incident Energy (MeV)
56-Ba-126

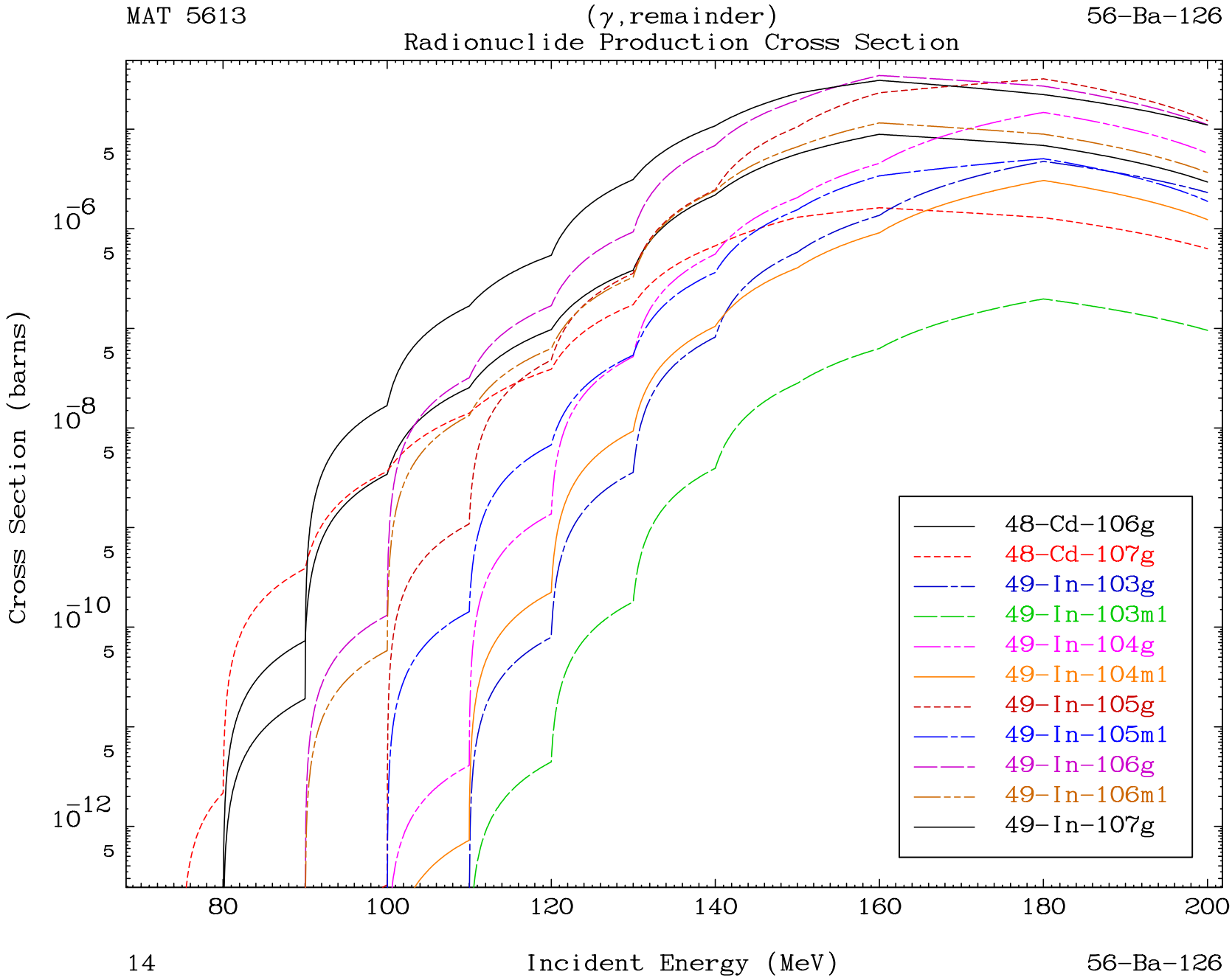

MAT 5613
(γ,He3) Levels
56-Ba-126
0 Kelvin Cross Sections
(γ,He-3)
Cross Section (barns)
10^-10
10^-12
10^-14
10^-16
5
16
18
20
22
24
26
28
30
9
Incident Energy (MeV)
56-Ba-126


MAT 5613
(γ,α) Levels
56-Ba-126
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^0
10^1
Incident Energy (MeV)
56-Ba-126

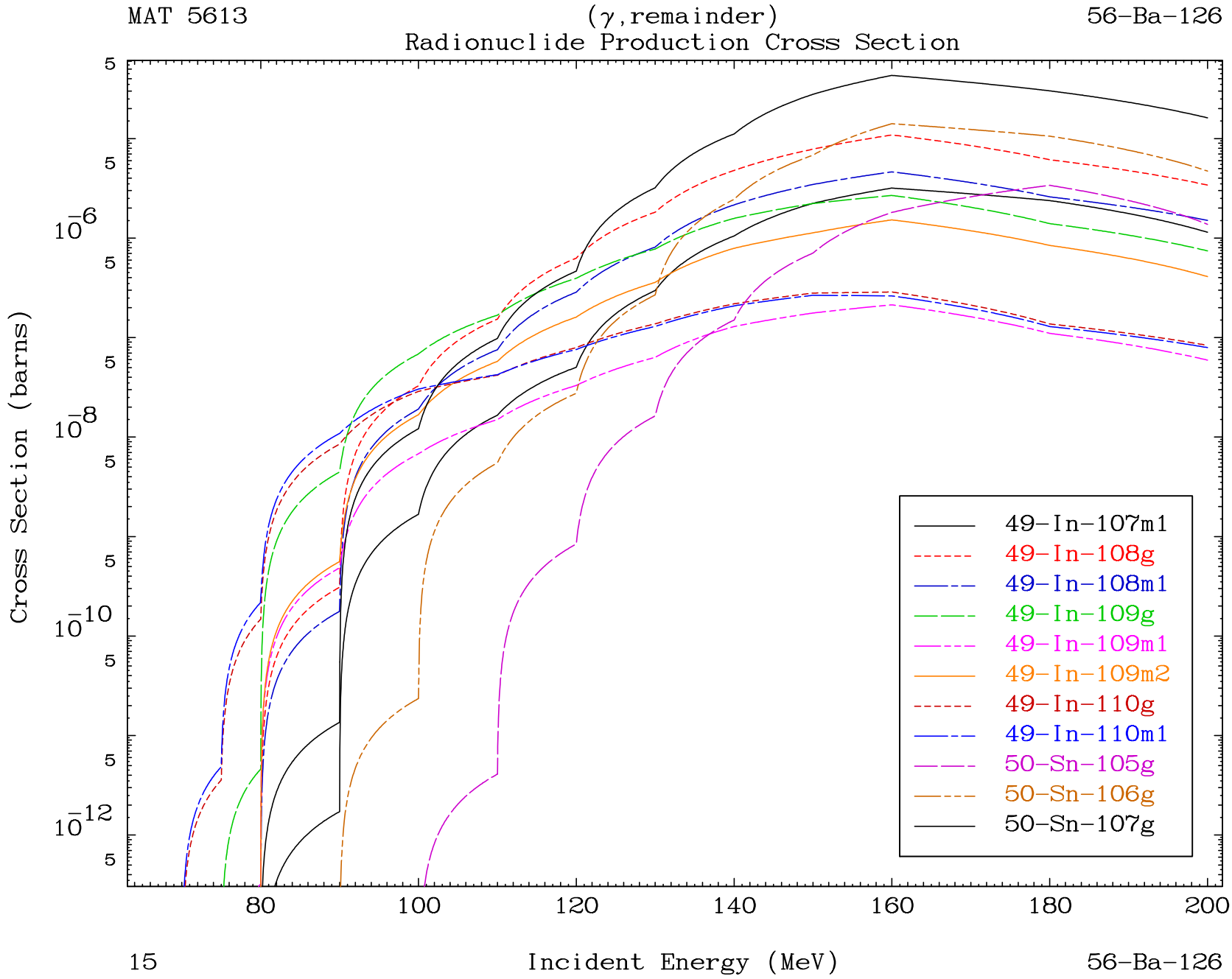

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
Neutron
1-H -1
1-H -2
1-H -3
2-He-3
2-He-4
46-Pd-96g
46-Pd-97g
46-Pd-98g
46-Pd-99g
46-Pd-100g
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-9
3
4
5
6
7
8
9
10^2
2
11
Incident Energy (MeV)
56-Ba-126

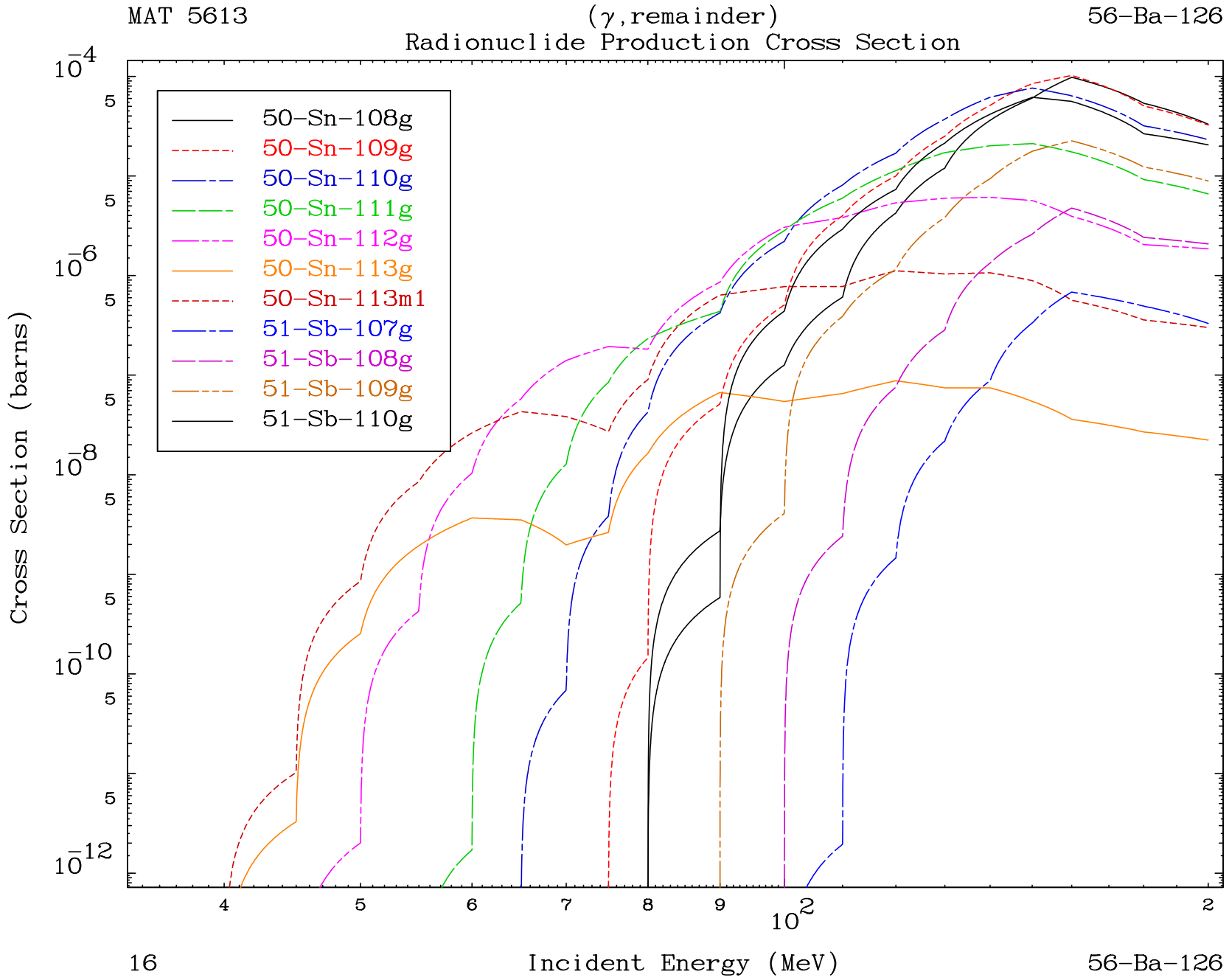

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
46-Pd-101g
46-Pd-102g
47-Ag-98g
47-Ag-99g
47-Ag-99m1
47-Ag-100g
47-Ag-100m1
47-Ag-101g
47-Ag-101m1
47-Ag-102g
47-Ag-102m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
100
120
140
160
180
200
Incident Energy (MeV)
12
56-Ba-126

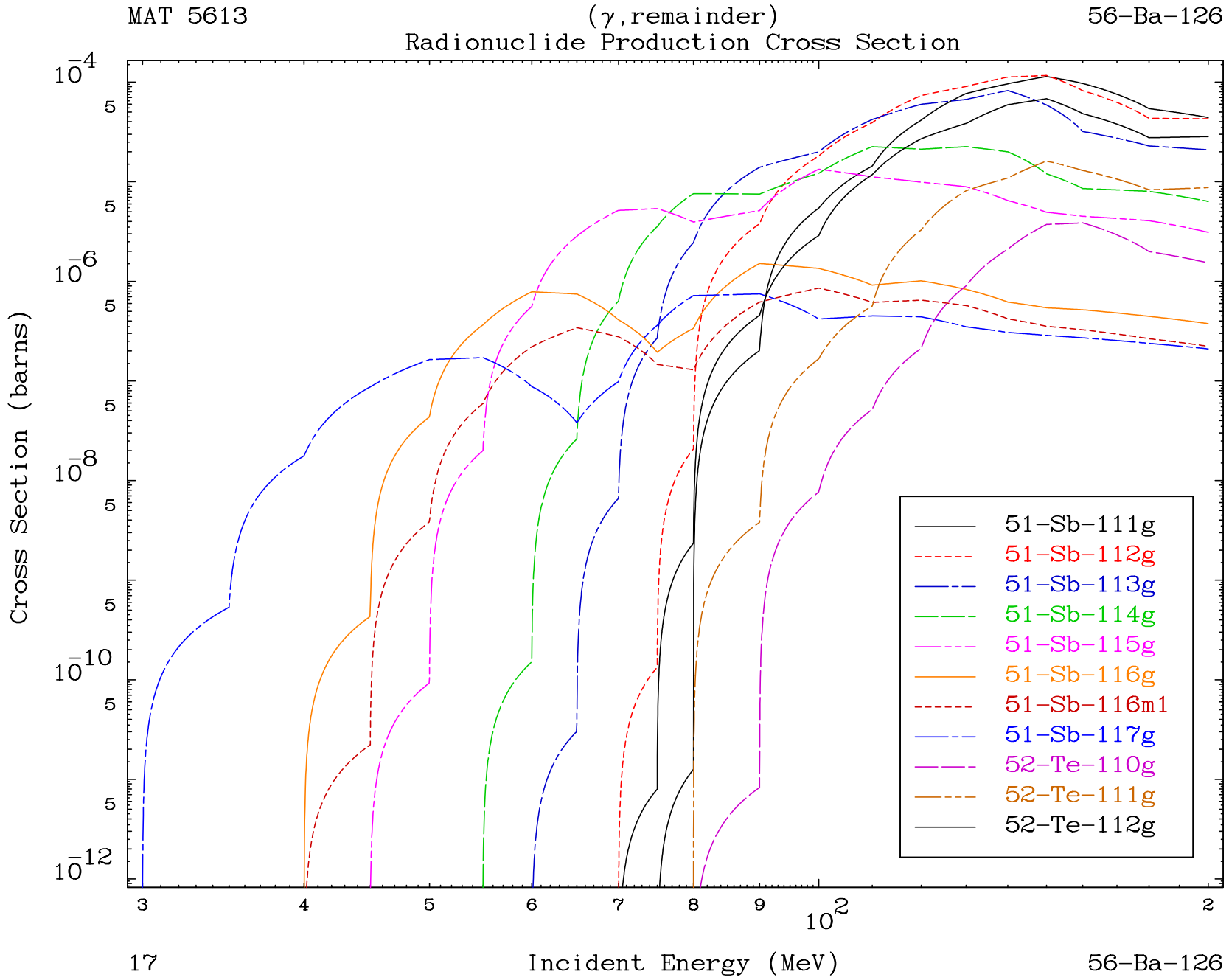

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
80
100
120
140
160
180
200
Incident Energy (MeV)
47-Ag-103g
47-Ag-103m1
47-Ag-104g
47-Ag-104m1
47-Ag-105g
47-Ag-105m1
48-Cd-101g
48-Cd-102g
48-Cd-103g
48-Cd-104g
48-Cd-105g


MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
5
80
100
120
140
160
180
200
Incident Energy (MeV)
48-Cd-106g
48-Cd-107g
49-In-103g
49-In-103m1
49-In-104g
49-In-104m1
49-In-105g
49-In-105m1
49-In-106g
49-In-106m1
49-In-107g

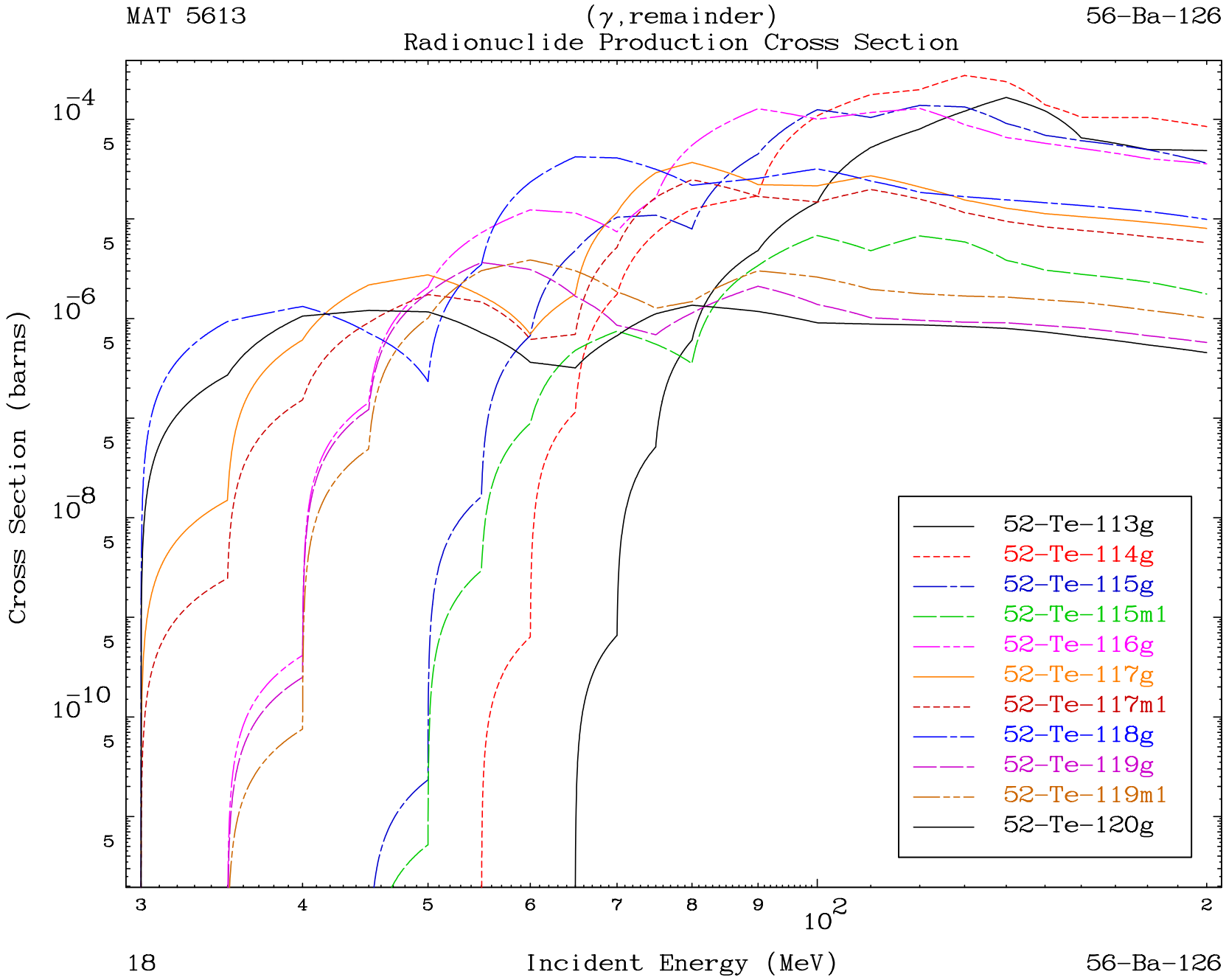
56-Ba-126

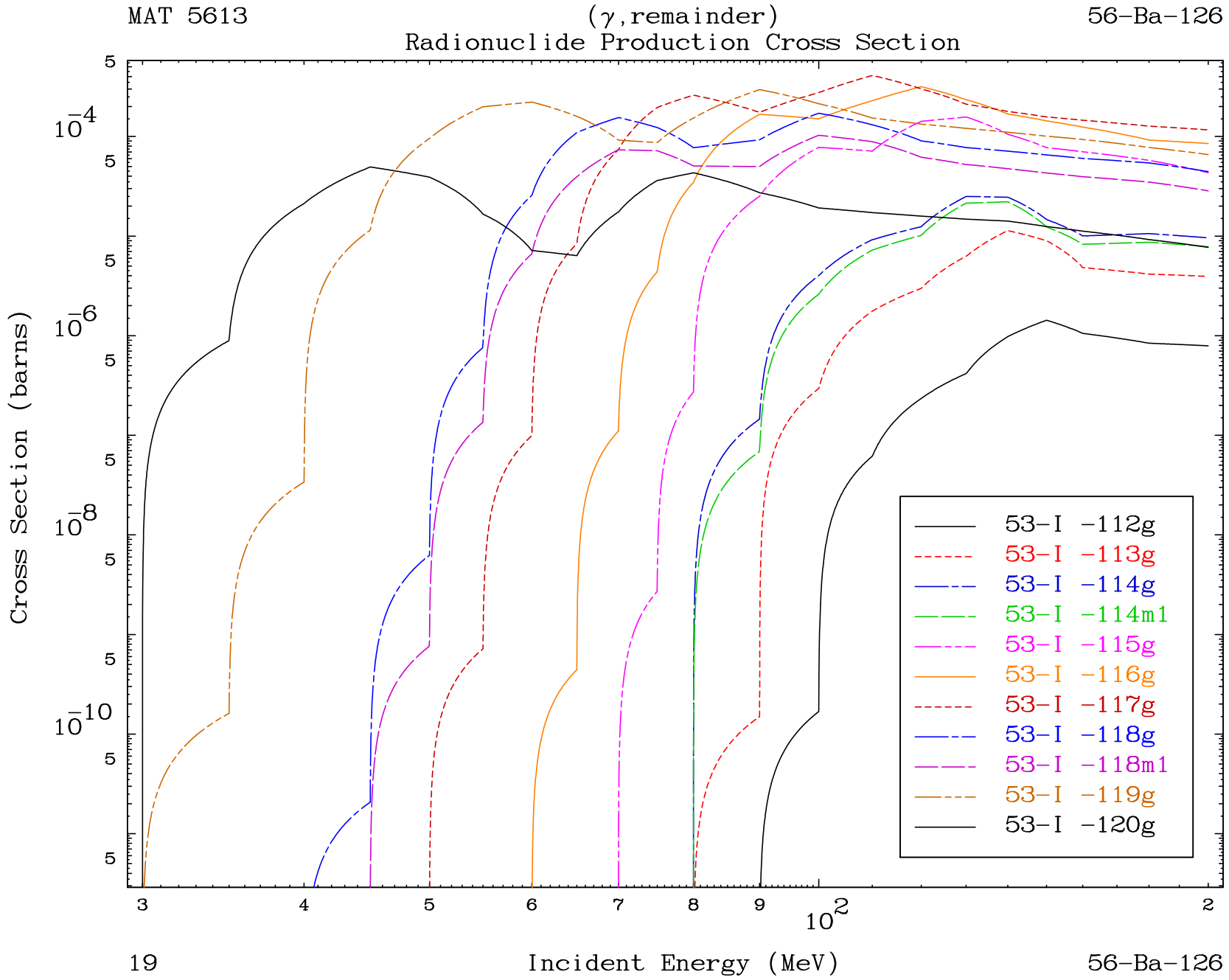

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
80
100
120
140
160
180
200
15
Incident Energy (MeV)
56-Ba-126
49-In-107m1
49-In-108g
49-In-108m1
49-In-109g
49-In-109m1
49-In-109m2
49-In-110g
49-In-110m1
50-Sn-105g
50-Sn-106g
50-Sn-107g


MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
50-Sn-108g
50-Sn-109g
50-Sn-110g
50-Sn-111g
50-Sn-112g
50-Sn-113g
50-Sn-113m1
51-Sb-107g
51-Sb-108g
51-Sb-109g
51-Sb-110g
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
4
5
6
7
8
9
10^2
2
16
Incident Energy (MeV)
56-Ba-126

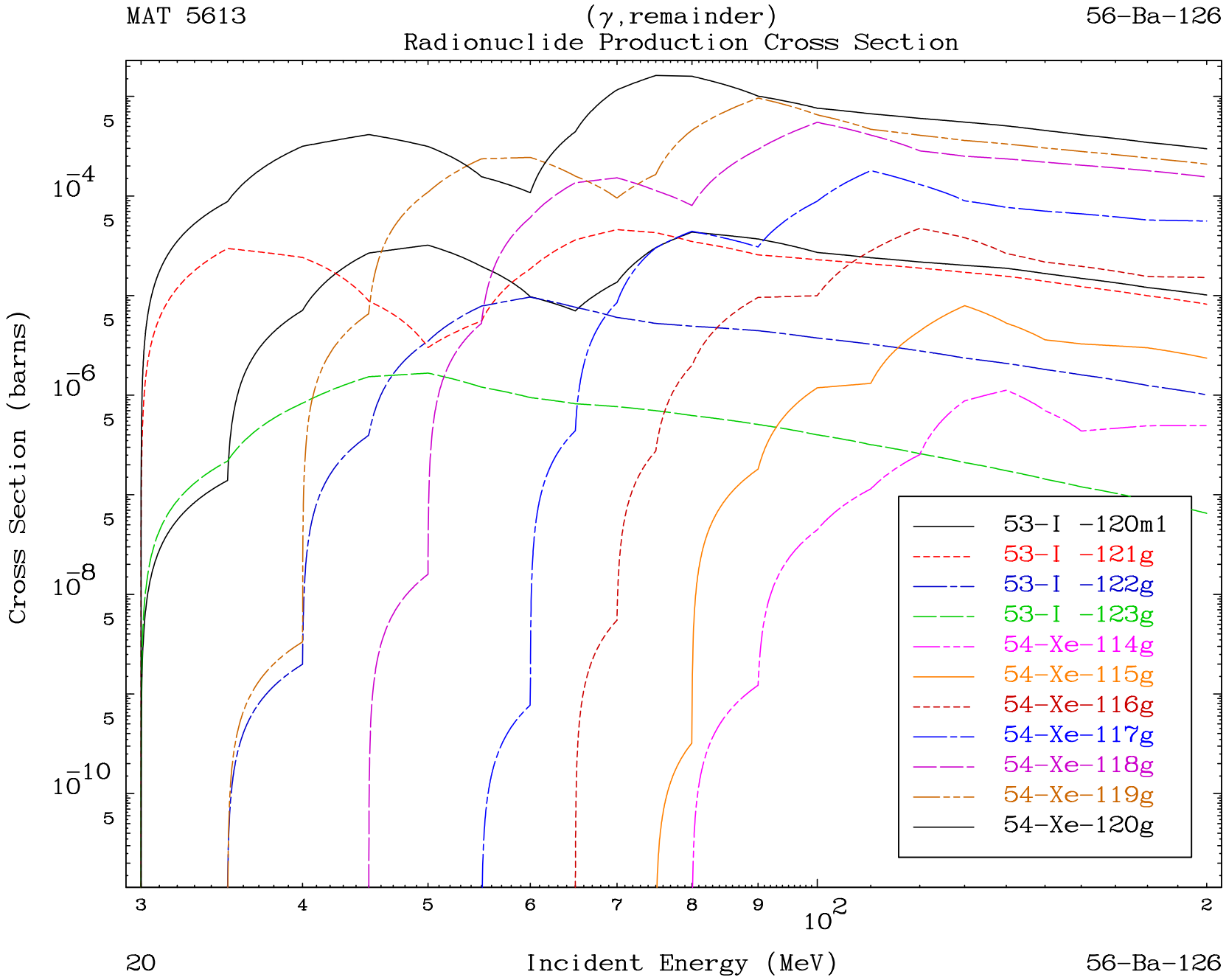

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
Cross Section (barns)
10-4
5
10-6
5
10-8
5
10-10
5
10-12
5
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
51-Sb-111g
51-Sb-112g
51-Sb-113g
51-Sb-114g
51-Sb-115g
51-Sb-116g
51-Sb-116m1
51-Sb-117g
52-Te-110g
52-Te-111g
52-Te-112g

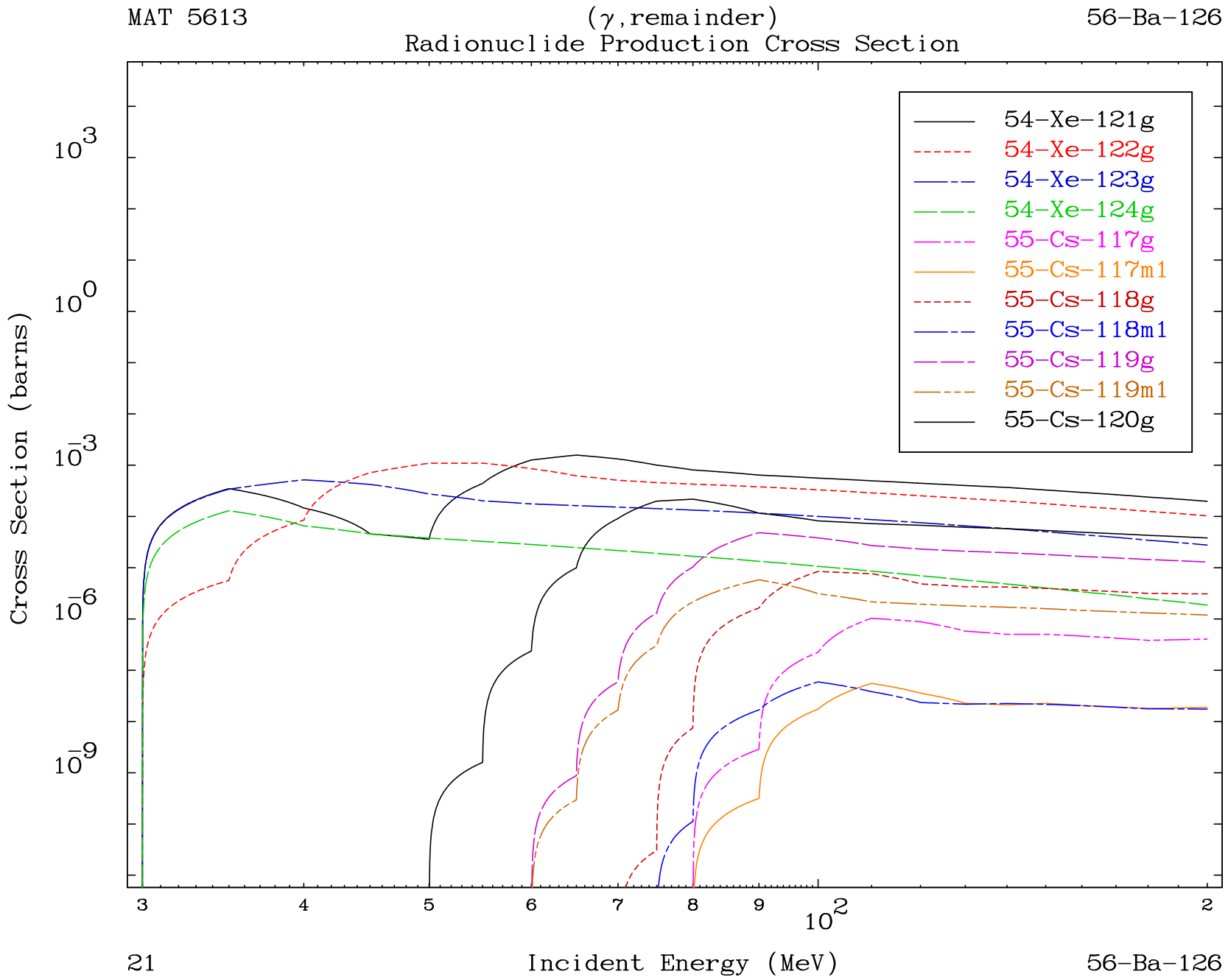
56-Ba-126

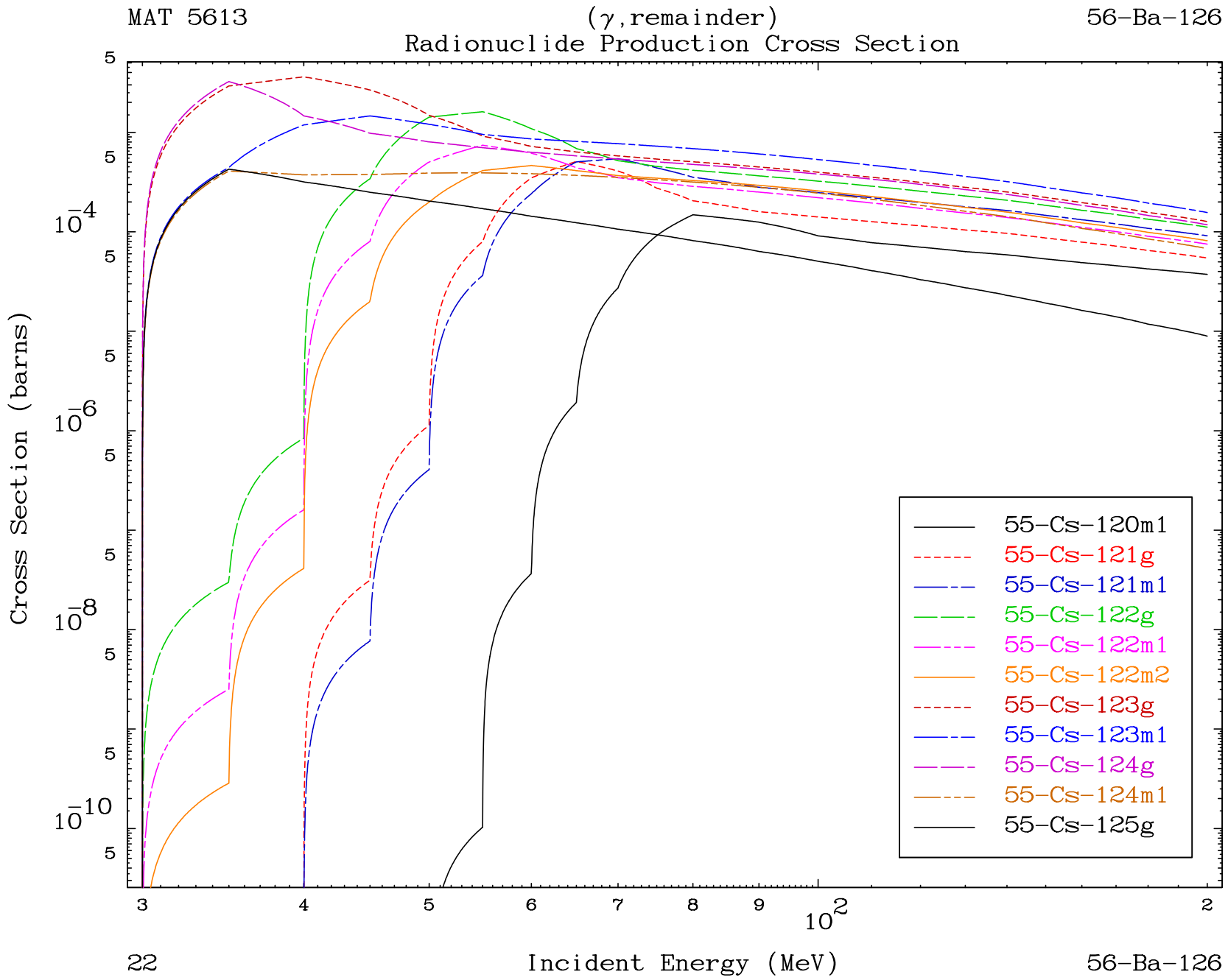

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
5
3
4
5
6
7
8
9
10 2
2
52-Te-113g
52-Te-114g
52-Te-115g
52-Te-115m1
52-Te-116g
52-Te-117g
52-Te-117m1
52-Te-118g
52-Te-119g
52-Te-119m1
52-Te-120g
18
Incident Energy (MeV)
56-Ba-126

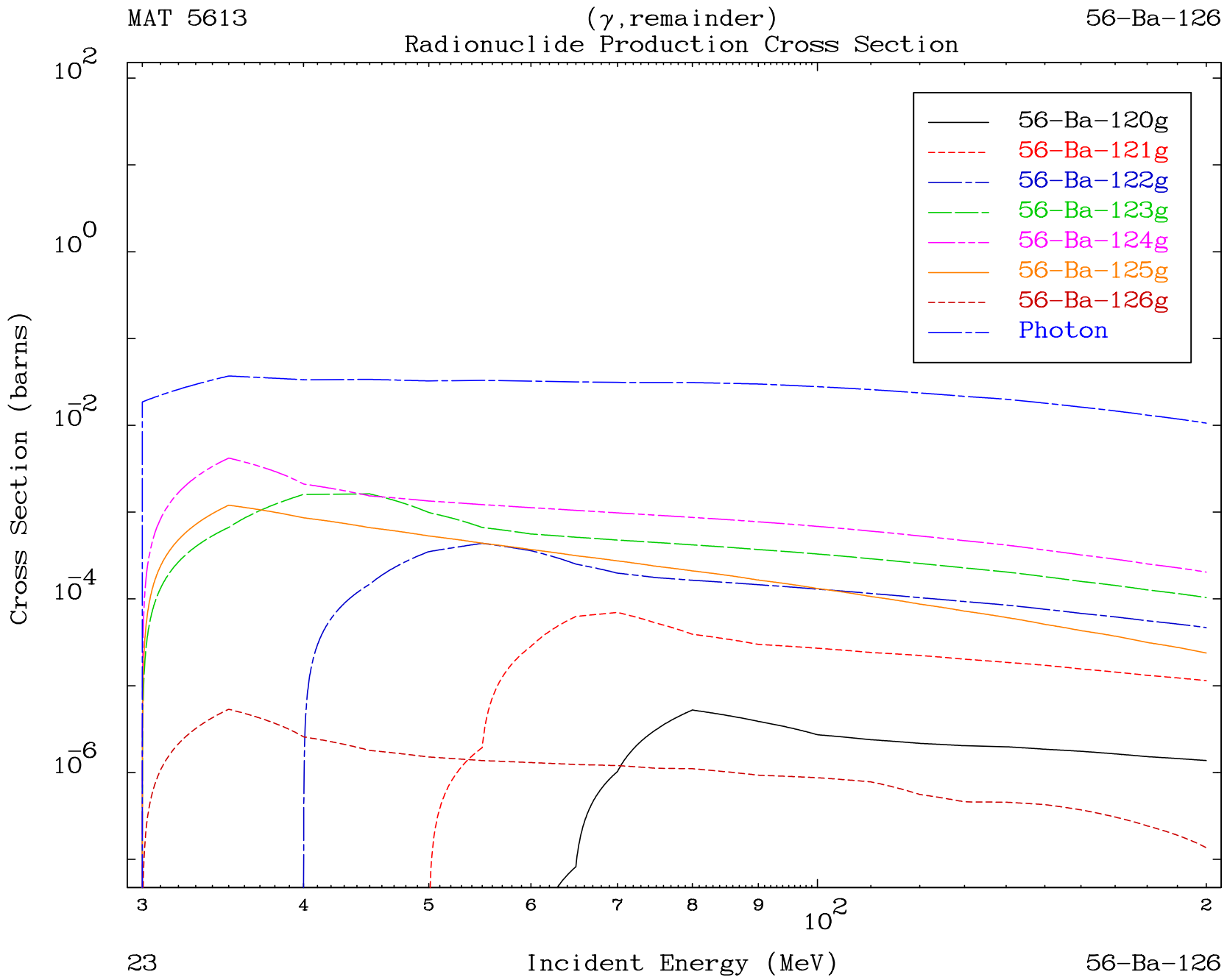

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
53-I -112g
53-I -113g
53-I -114g
53-I -114m1
53-I -115g
53-I -116g
53-I -117g
53-I -118g
53-I -118m1
53-I -119g
53-I -120g

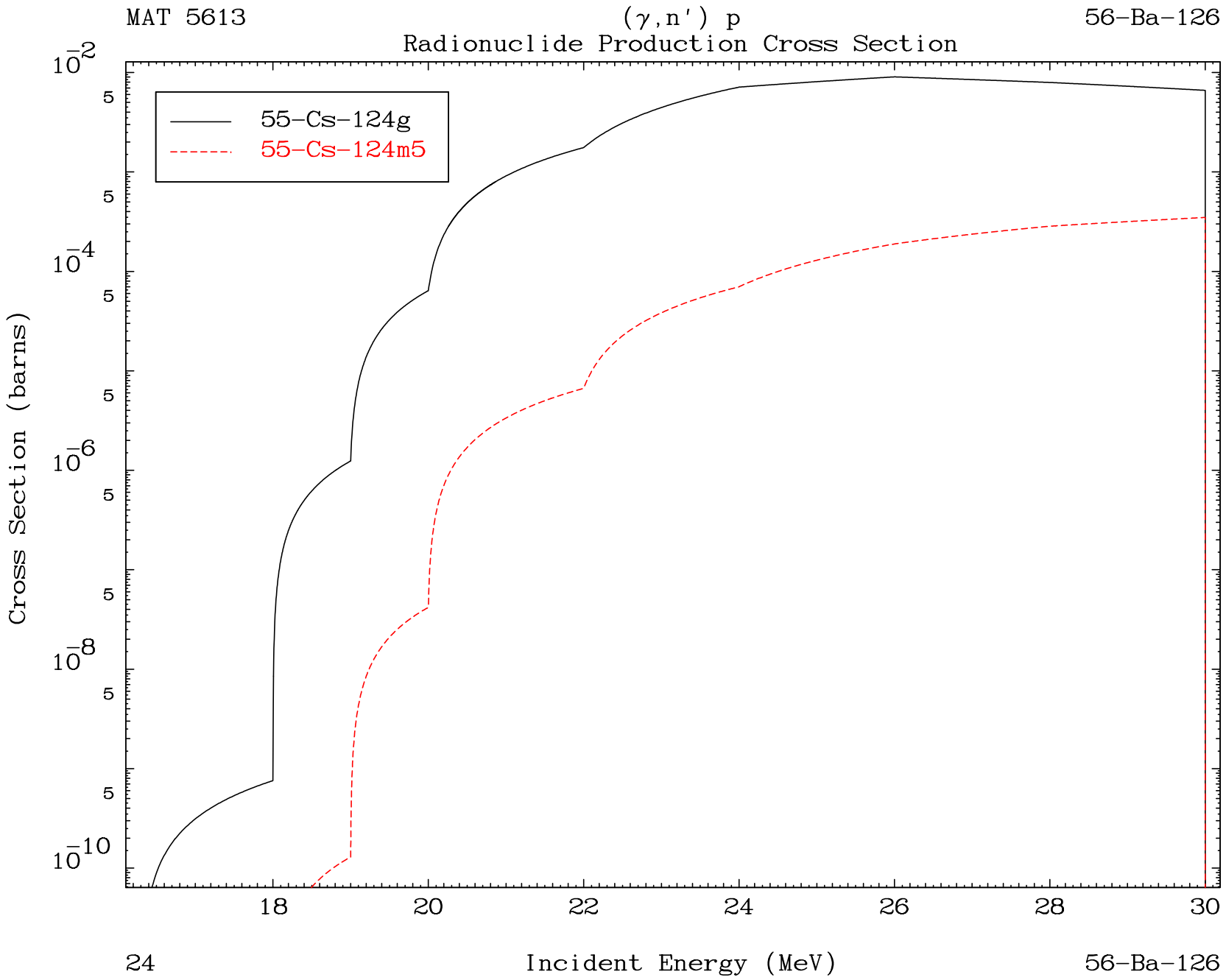
56-Ba-126

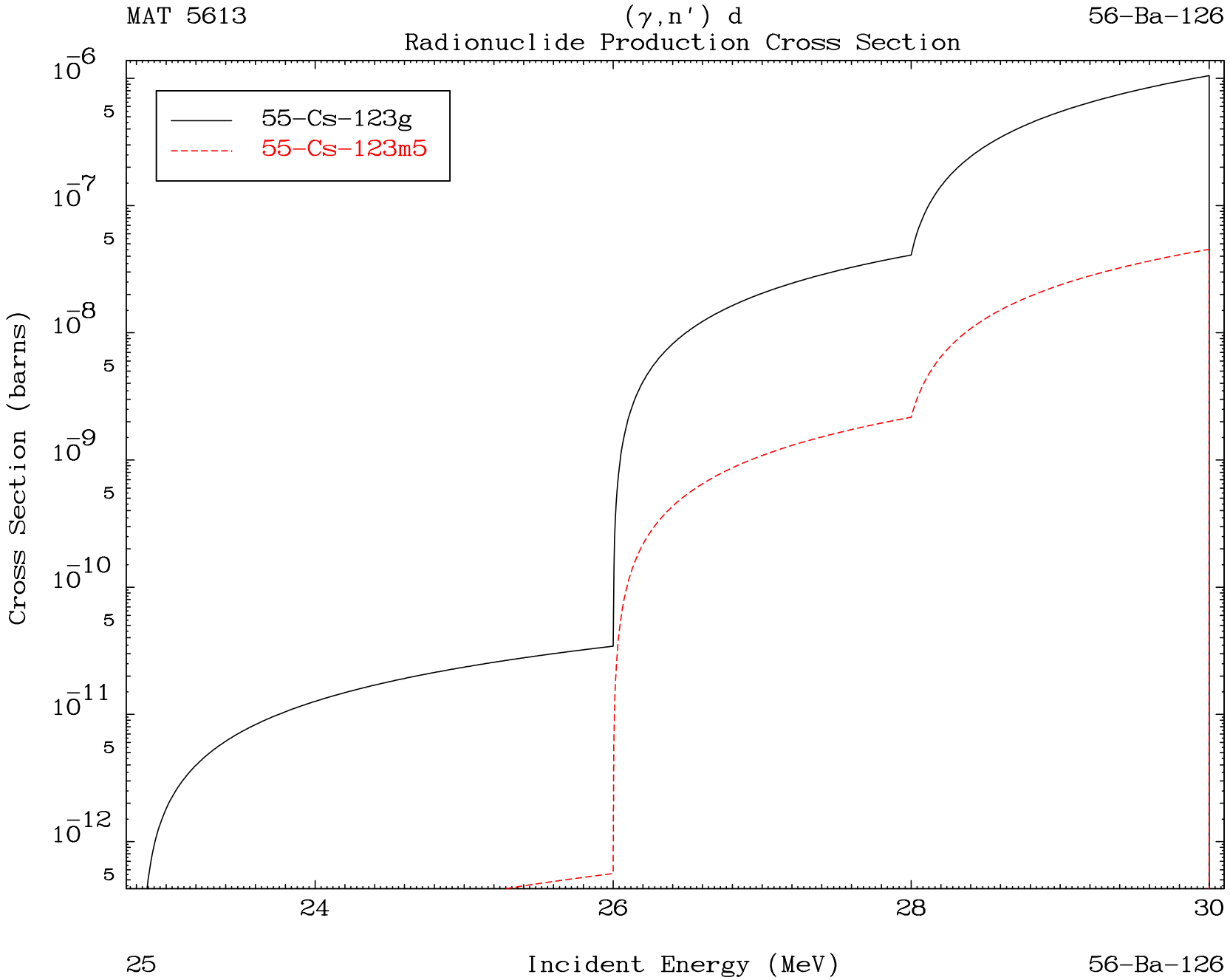

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
20
56-Ba-126
53-I -120m1
53-I -121g
53-I -122g
53-I -123g
54-Xe-114g
54-Xe-115g
54-Xe-116g
54-Xe-117g
54-Xe-118g
54-Xe-119g
54-Xe-120g

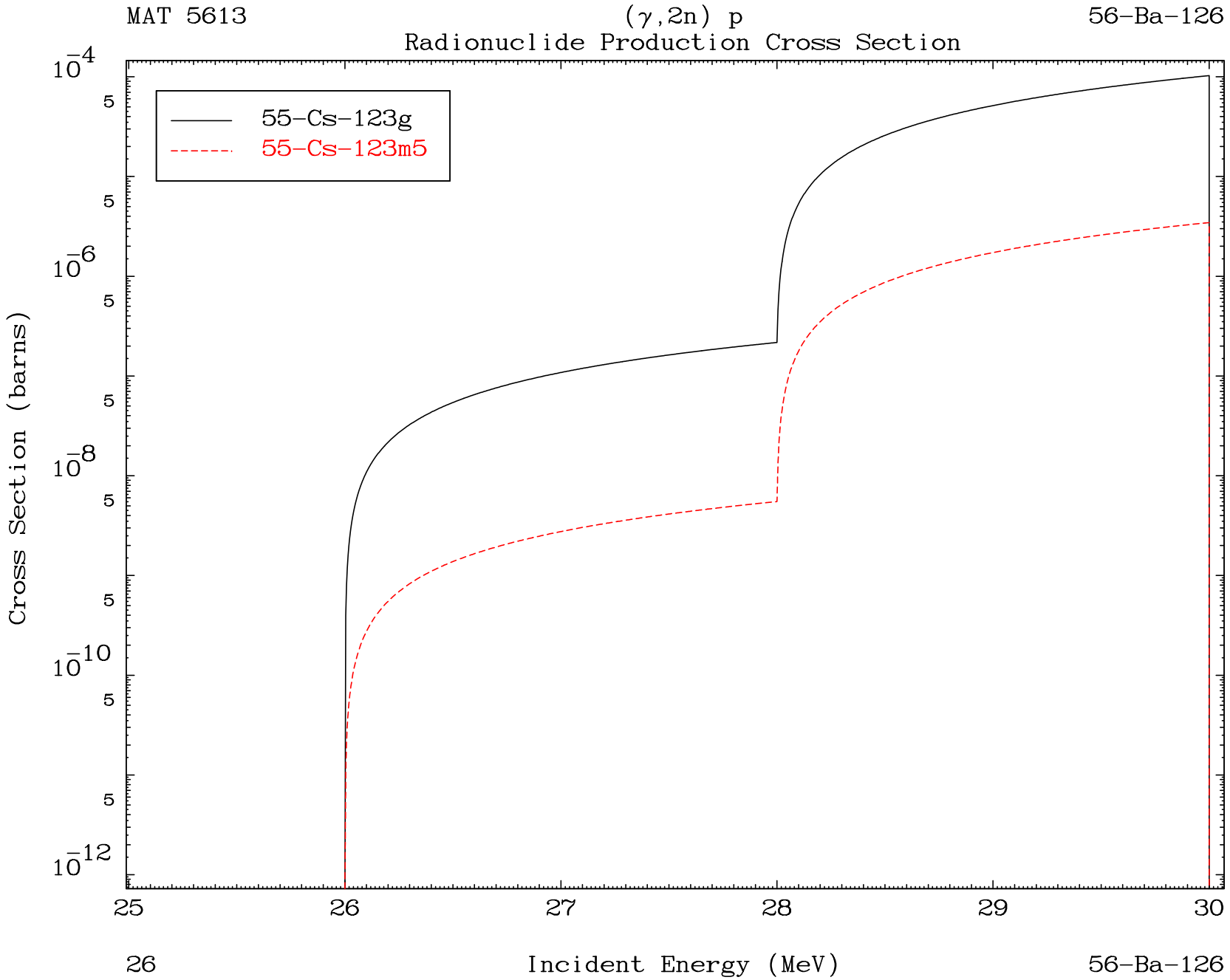

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
54-Xe-121g
54-Xe-122g
54-Xe-123g
54-Xe-124g
55-Cs-117g
55-Cs-117m1
55-Cs-118g
55-Cs-118m1
55-Cs-119g
55-Cs-119m1
55-Cs-120g
Cross Section (barns)
10^3
10^0
10^-3
10^-6
10^-9
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
56-Ba-126

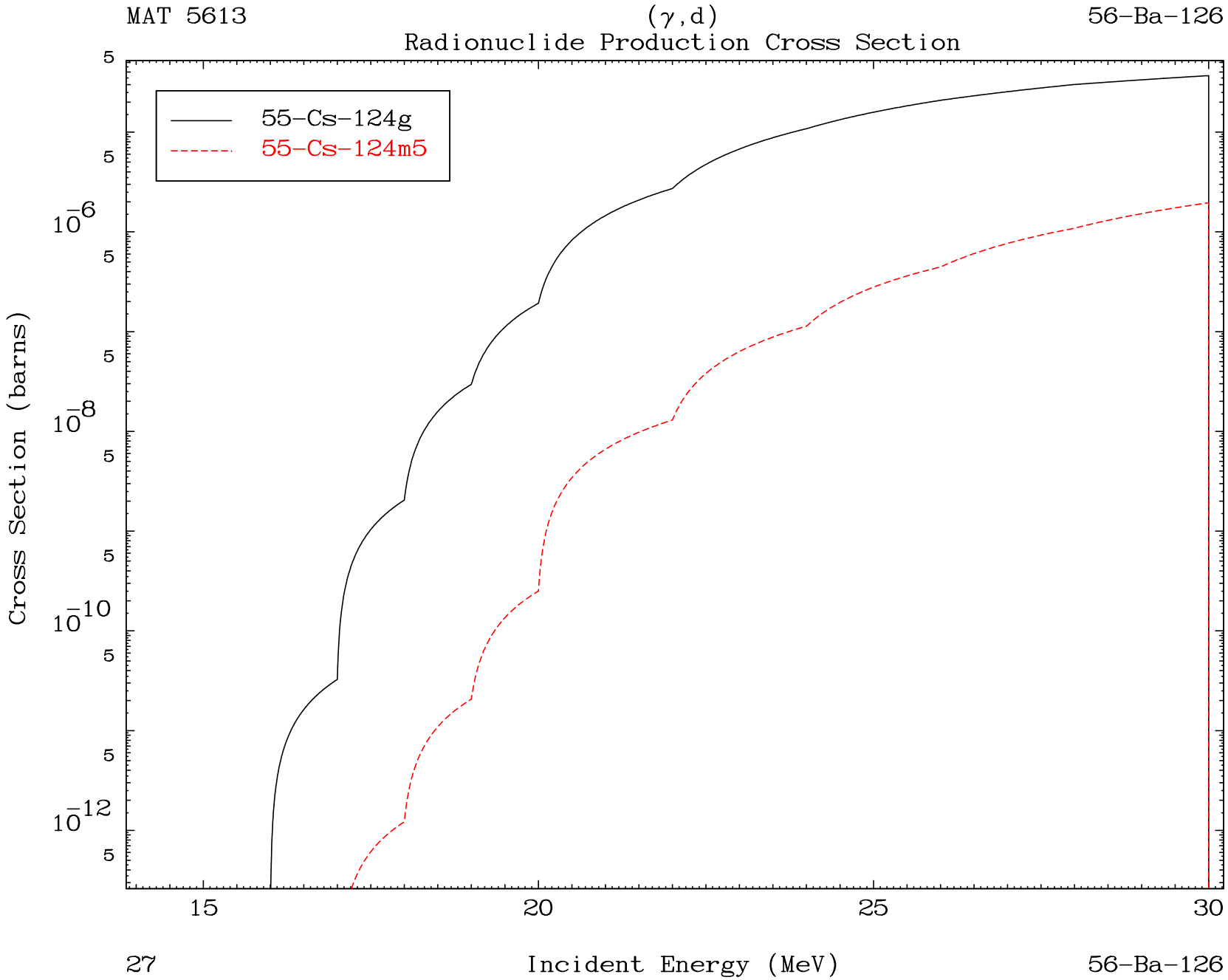

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
22
56-Ba-126
55-Cs-120m1
55-Cs-121g
55-Cs-121m1
55-Cs-122g
55-Cs-122m1
55-Cs-122m2
55-Cs-123g
55-Cs-123m1
55-Cs-124g
55-Cs-124m1
55-Cs-125g

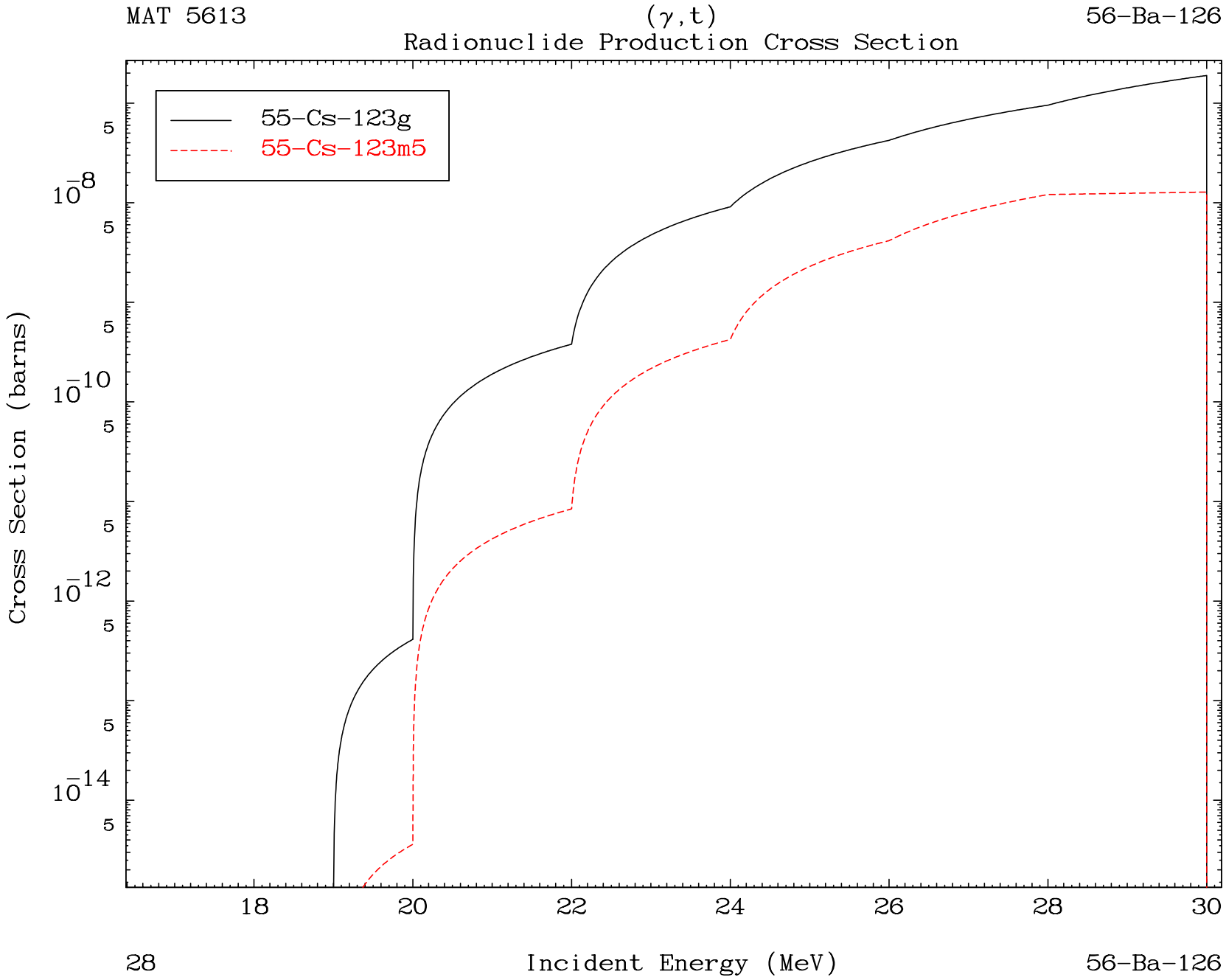

MAT 5613
(γ,remainder)
56-Ba-126
Radionuclide Production Cross Section
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-6
56-Ba-120g
56-Ba-121g
56-Ba-122g
56-Ba-123g
56-Ba-124g
56-Ba-125g
56-Ba-126g
Photon
3
4
5
6
7
8
9
10^2
2
23
Incident Energy (MeV)
56-Ba-126


MAT 5613
(γ,n') p
56-Ba-126
Radionuclide Production Cross Section
55-Cs-124g
55-Cs-124m5
Cross Section (barns)
10-2
10-4
10-6
10-8
10-10
18
20
22
24
26
28
30
24
Incident Energy (MeV)
56-Ba-126


MAT 5613
(γ,n') d
56-Ba-126
Radionuclide Production Cross Section
55-Cs-123g
55-Cs-123m5
Cross Section (barns)
10-6
10-7
10-8
10-9
10-10
10-11
10-12
5
24
26
28
30
25
Incident Energy (MeV)
56-Ba-126


MAT 5613
(γ,2n) p
56-Ba-126
Radionuclide Production Cross Section
55-Cs-123g
55-Cs-123m5
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
25
26
27
28
29
30
Incident Energy (MeV)
56-Ba-126


MAT 5613
(γ,d)
56-Ba-126
Radionuclide Production Cross Section
55-Cs-124g
55-Cs-124m5
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
15
20
25
30
27
Incident Energy (MeV)
56-Ba-126


MAT 5613
(γ,t)
56-Ba-126
Radionuclide Production Cross Section
55-Cs-123g
55-Cs-123m5
Cross Section (barns)
10-8
10-10
10-12
10-14
5
18
20
22
24
26
28
30
28
Incident Energy (MeV)
56-Ba-126