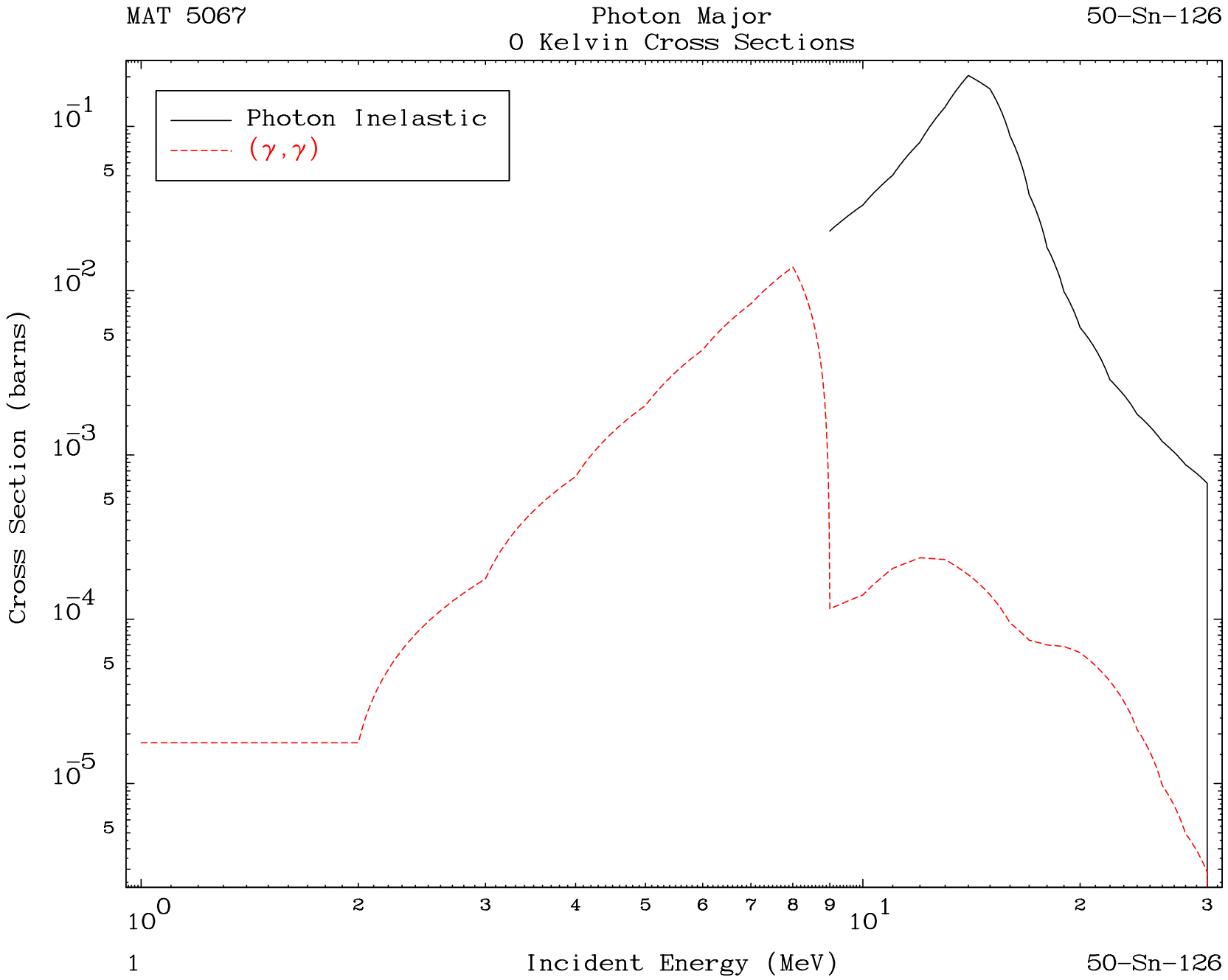
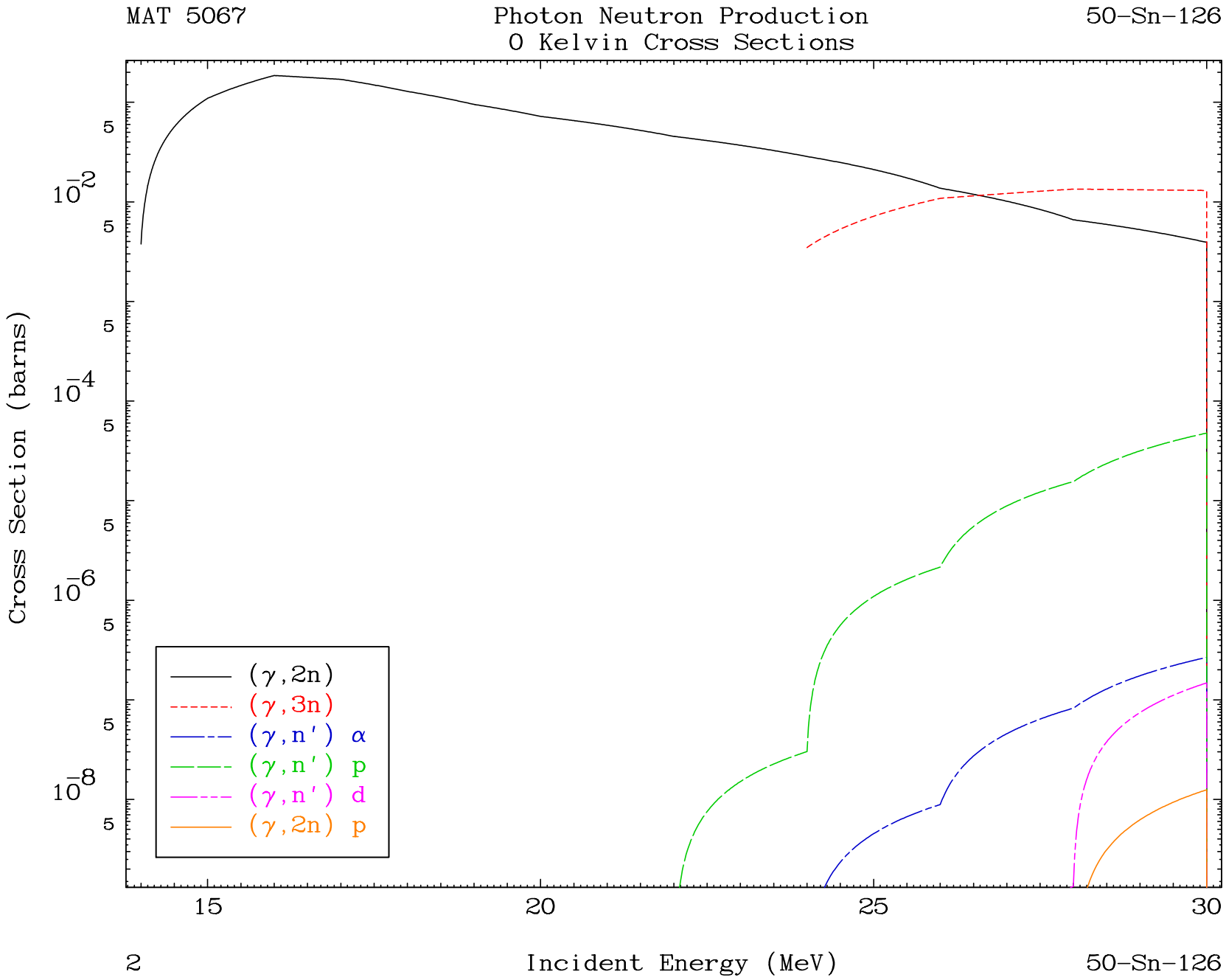
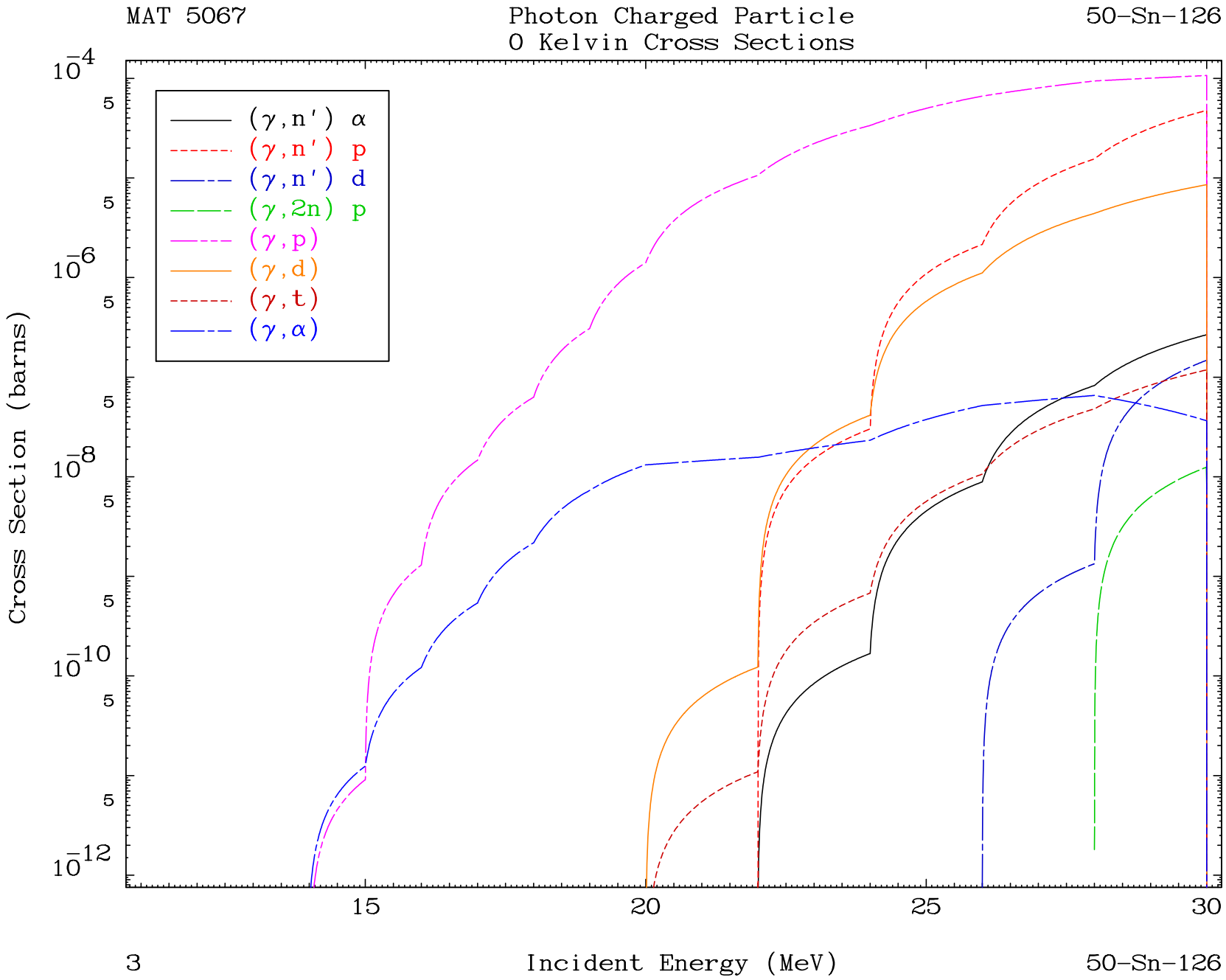
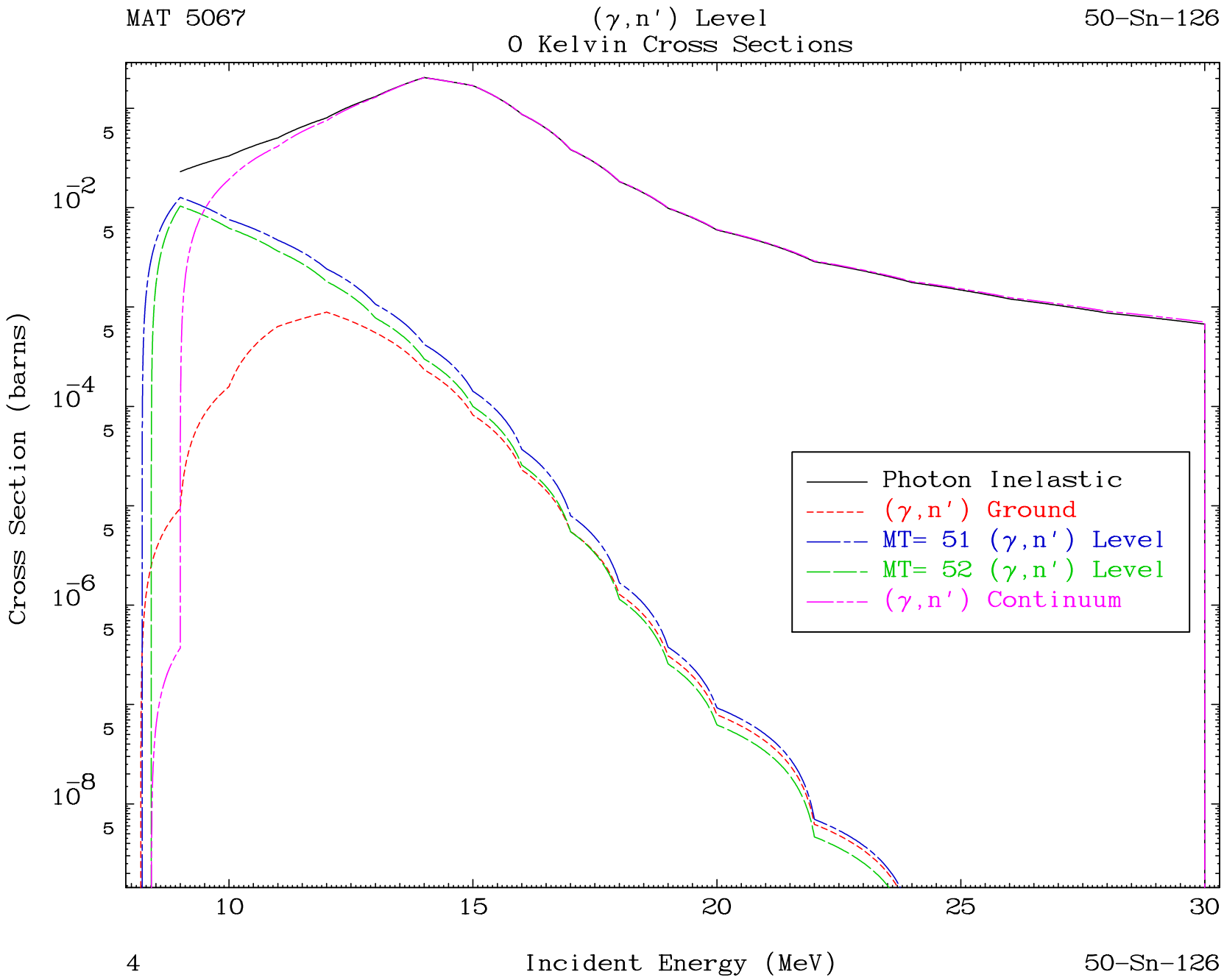
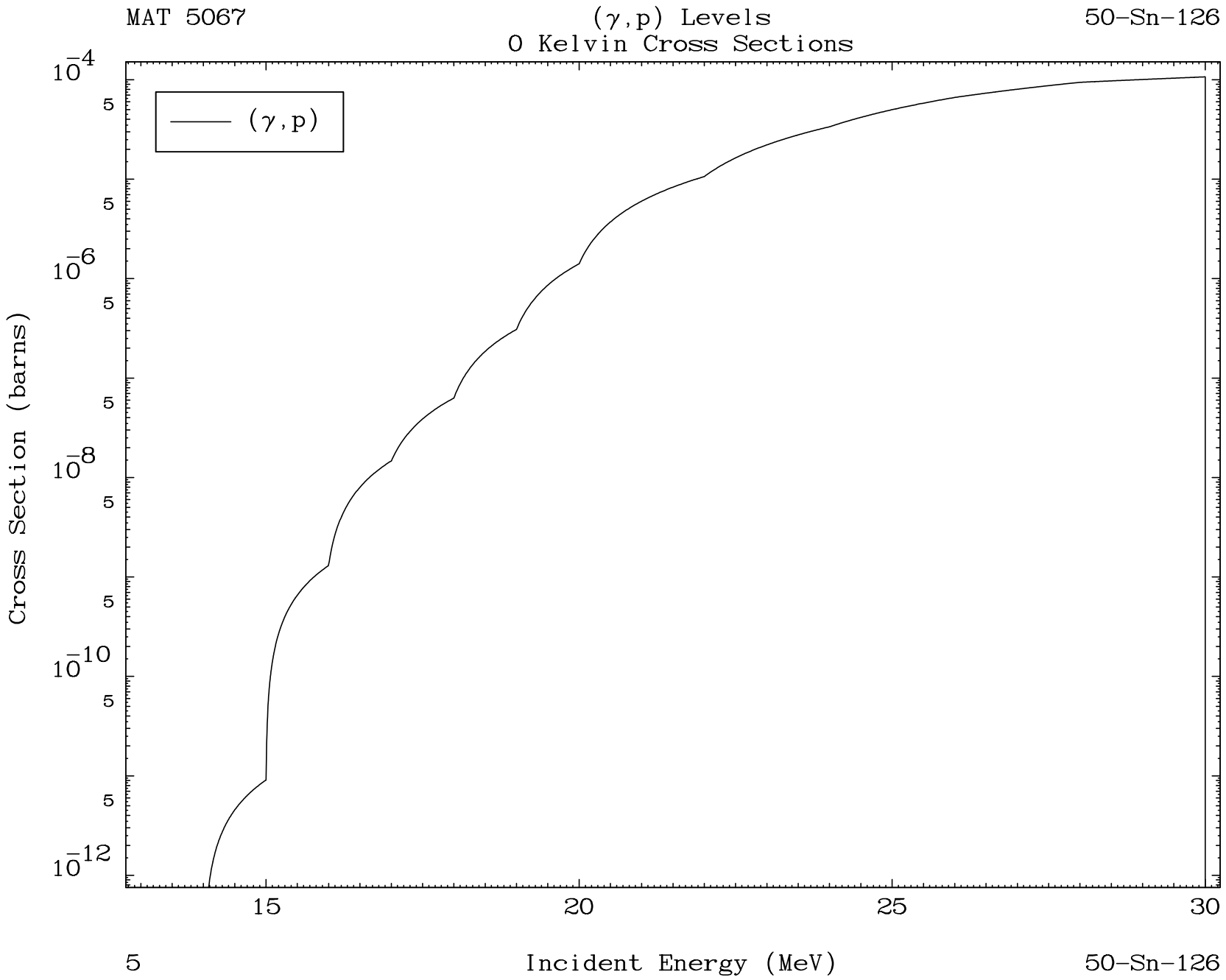
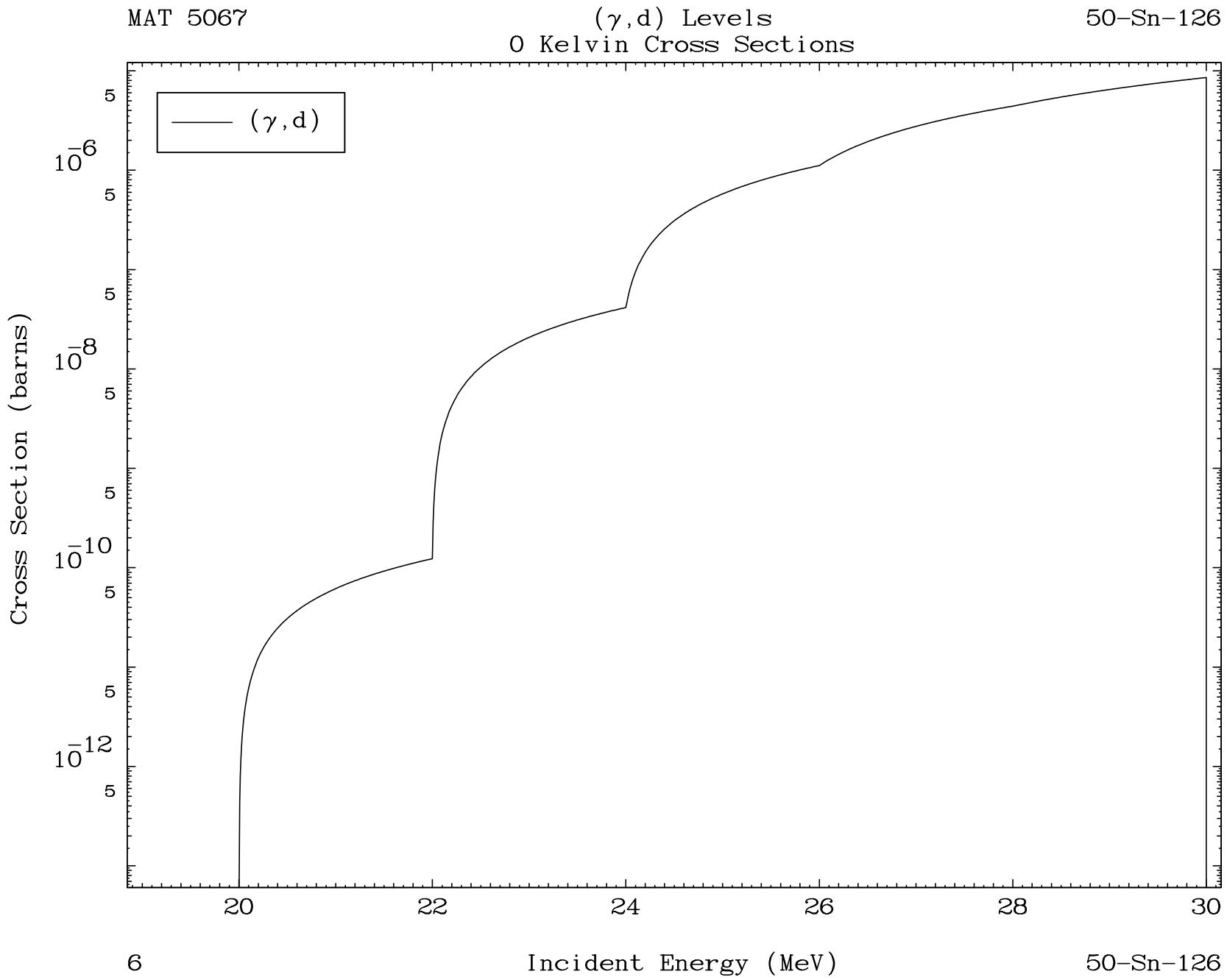

MAT 5067
Photon Major
50-Sn-126
0 Kelvin Cross Sections
Photon Inelastic
(γ,γ)
Cross Section (barns)
10-1
10-2
10-3
10-4
10-5
5
100
2
3
4
5
6
7
8
9
101
Incident Energy (MeV)
50-Sn-126

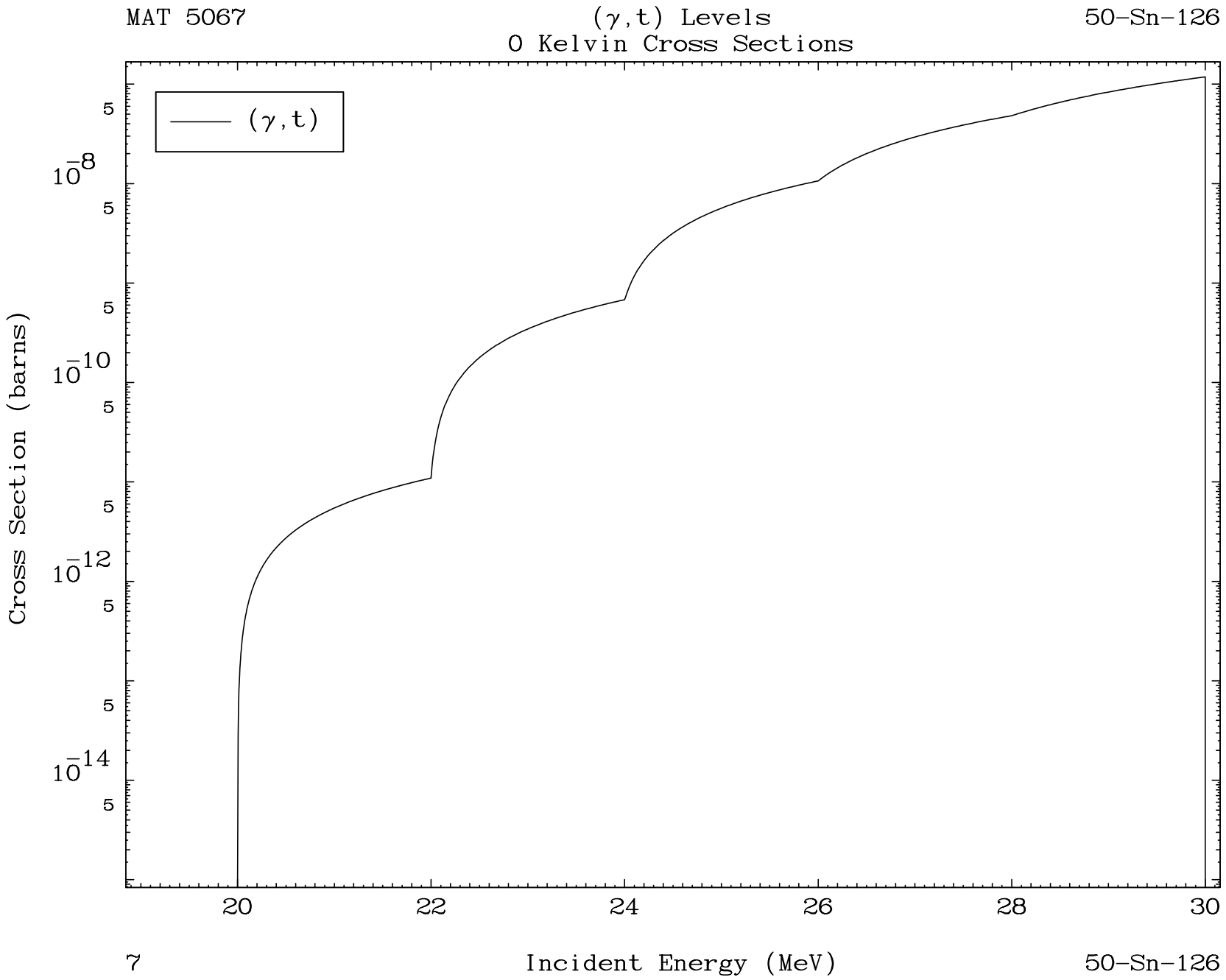

MAT 5067
Photon Neutron Production
0 Kelvin Cross Sections
50-Sn-126
Cross Section (barns)
10-2
10-4
10-6
10-8
5
15
20
25
30
2
Incident Energy (MeV)
50-Sn-126
(γ,2n)
(γ,3n)
(γ,n') α
(γ,n') p
(γ,n') d
(γ,2n) p

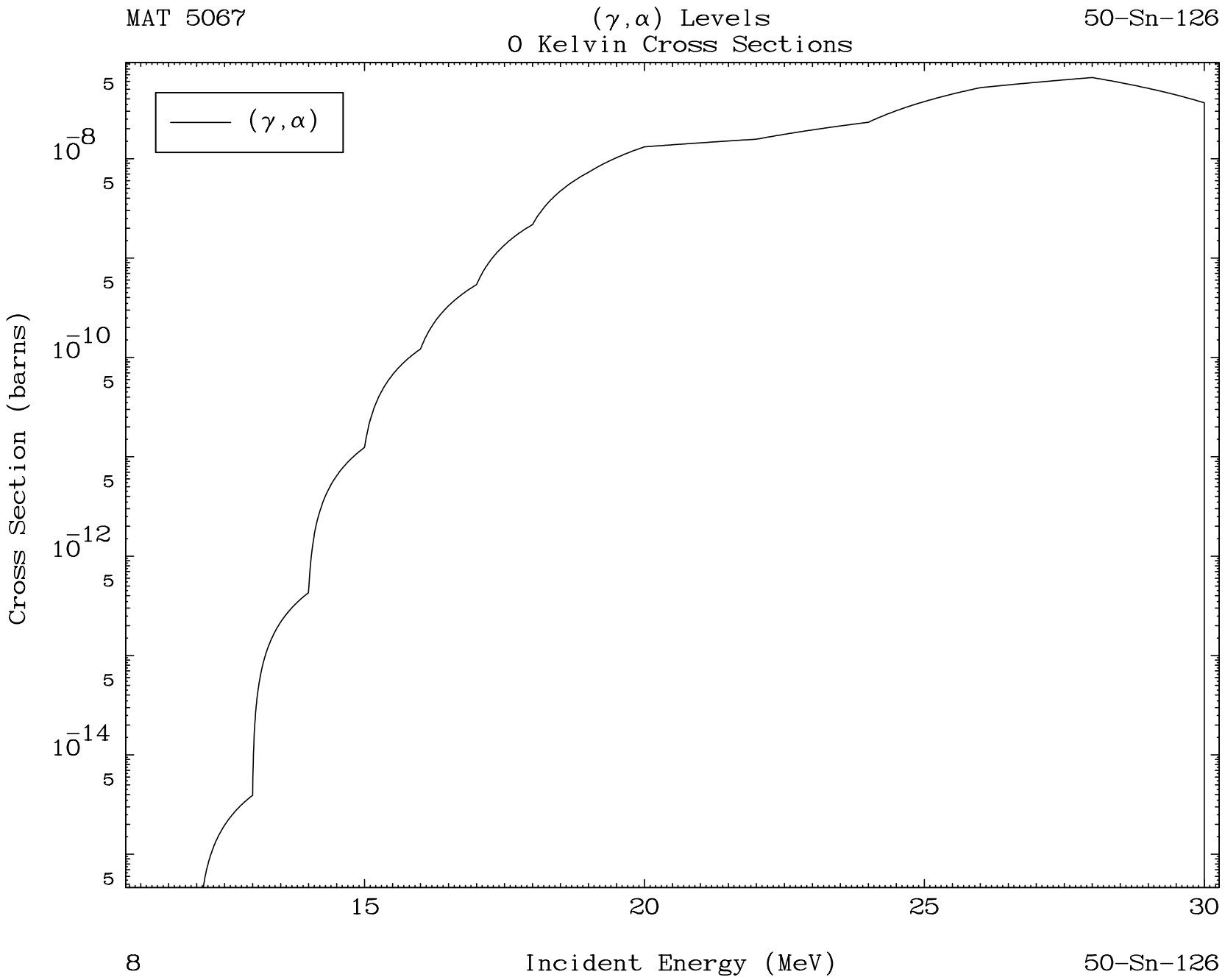

MAT 5067
Photon Charged Particle
0 Kelvin Cross Sections
50-Sn-126
(γ,n') α
(γ,n') p
(γ,n') d
(γ,2n) p
(γ,p)
(γ,d)
(γ,t)
(γ,α)
Cross Section (barns)
10-4
10-6
10-8
10-10
10-12
15
20
25
30
Incident Energy (MeV)
3
50-Sn-126

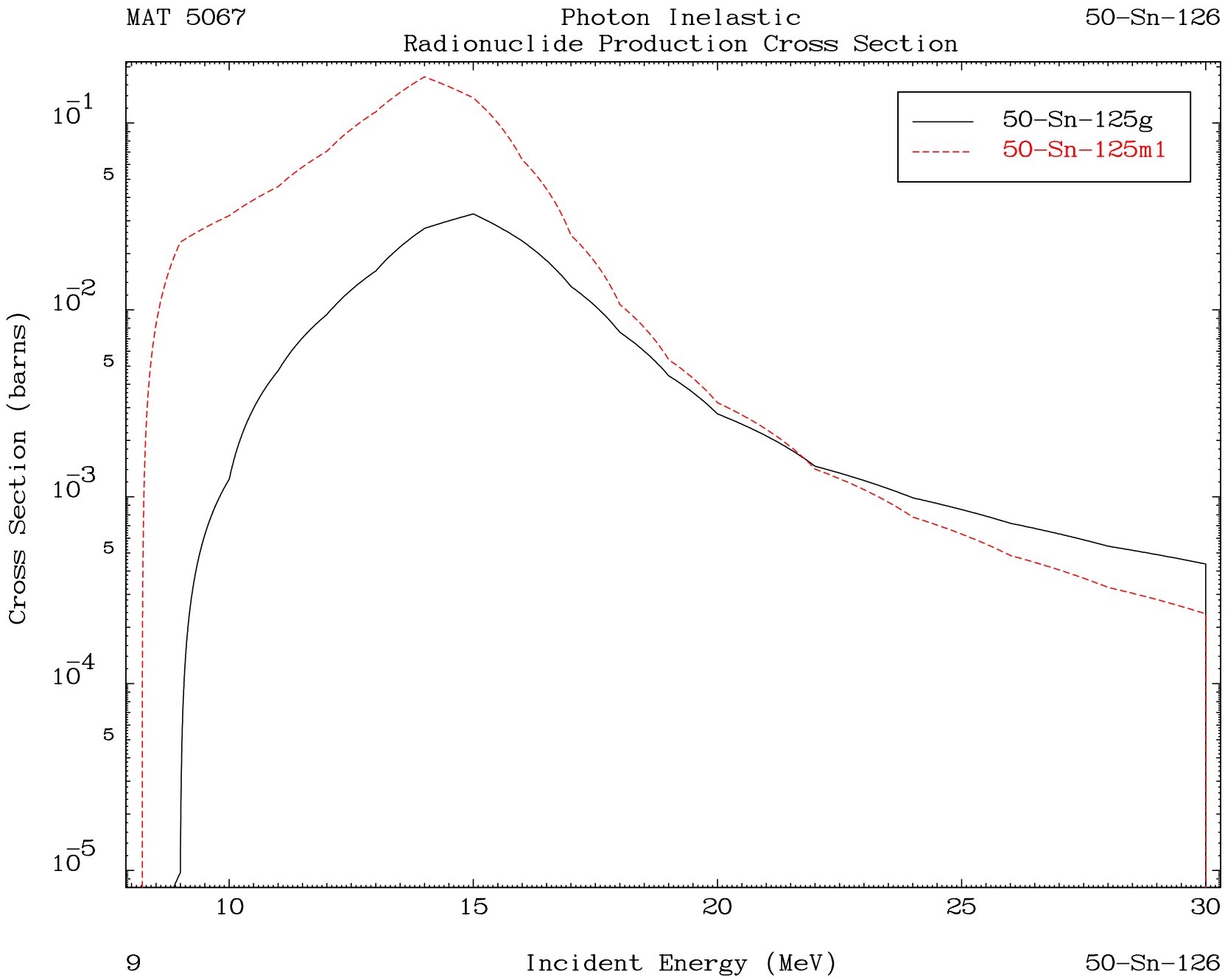

MAT 5067
(γ,n') Level
50-Sn-126
0 Kelvin Cross Sections
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10
15
20
25
30
Photon Inelastic
(γ,n') Ground
MT= 51 (γ,n') Level
MT= 52 (γ,n') Level
(γ,n') Continuum
4
Incident Energy (MeV)
50-Sn-126

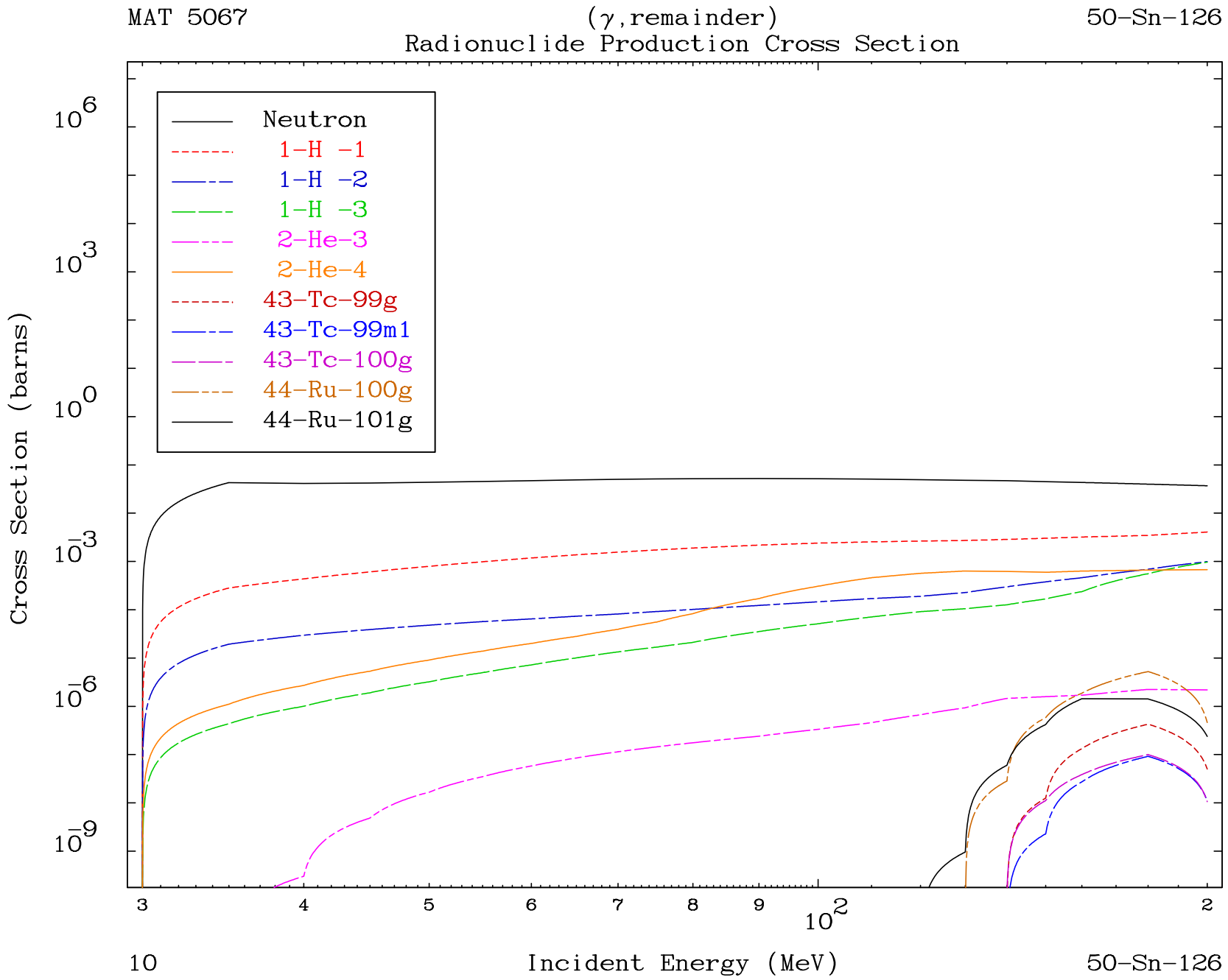

MAT 5067
(γ,p) Levels
50-Sn-126
0 Kelvin Cross Sections
(γ,p)
Cross Section (barns)
10-4
5
10-6
5
10-8
5
10-10
5
10-12
15
20
25
30
5
Incident Energy (MeV)
50-Sn-126

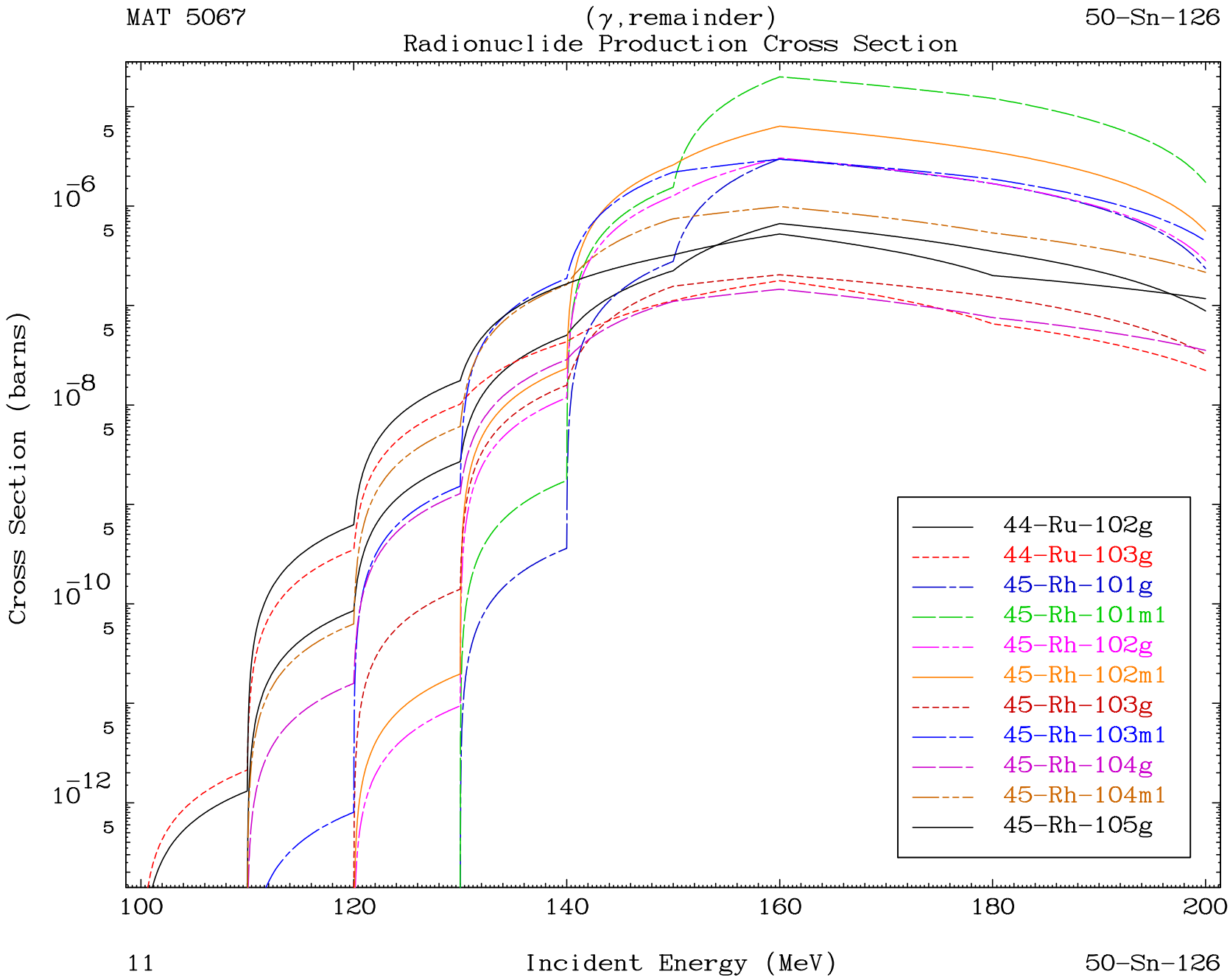

MAT 5067
(γ,d) Levels
50-Sn-126
0 Kelvin Cross Sections
(γ,d)
Cross Section (barns)
10-6
10-8
10-10
10-12
5
20
22
24
26
28
30
Incident Energy (MeV)
6
50-Sn-126

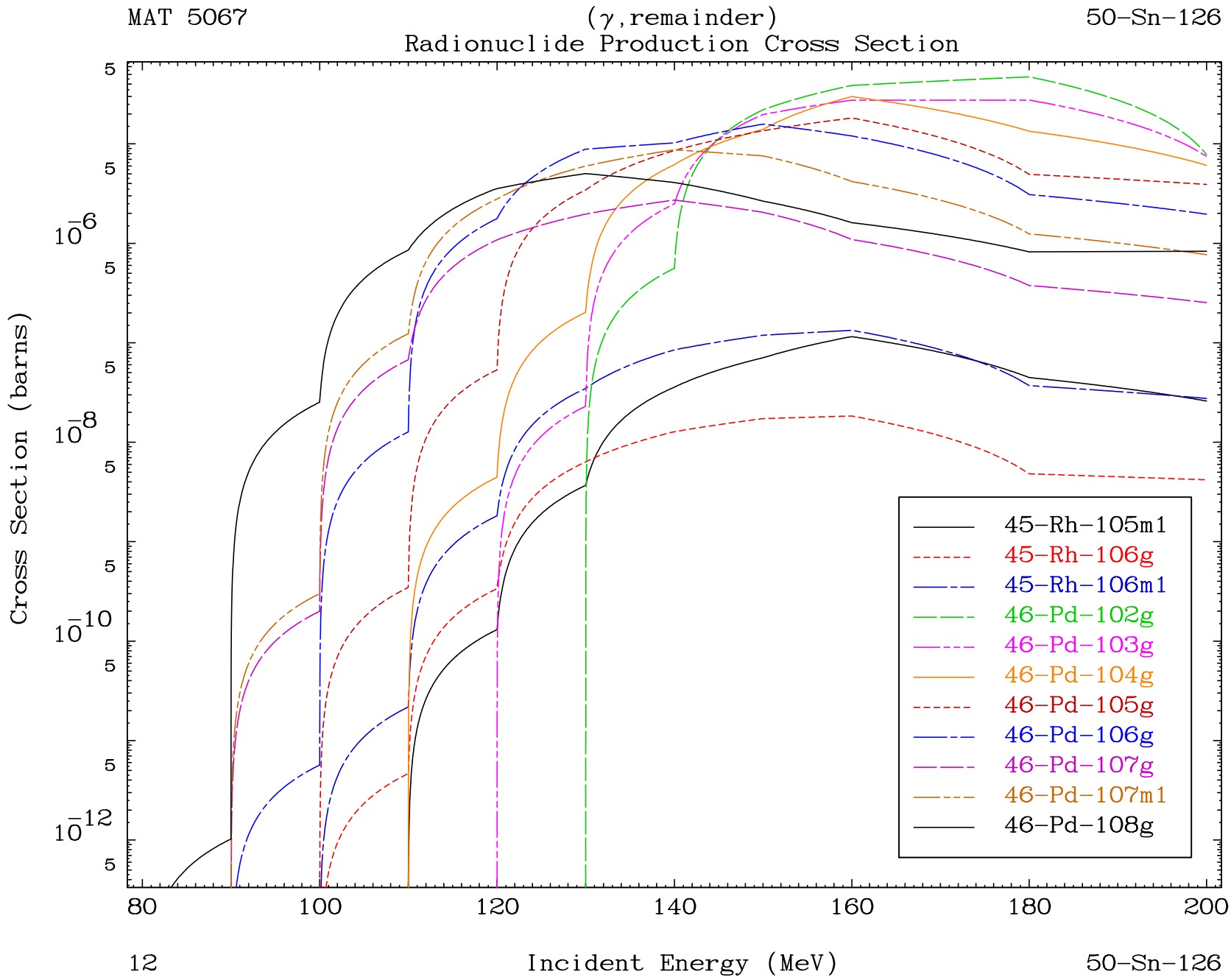

MAT 5067
(γ,t) Levels
50-Sn-126
0 Kelvin Cross Sections
(γ,t)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
20
22
24
26
28
30
Incident Energy (MeV)
7
50-Sn-126

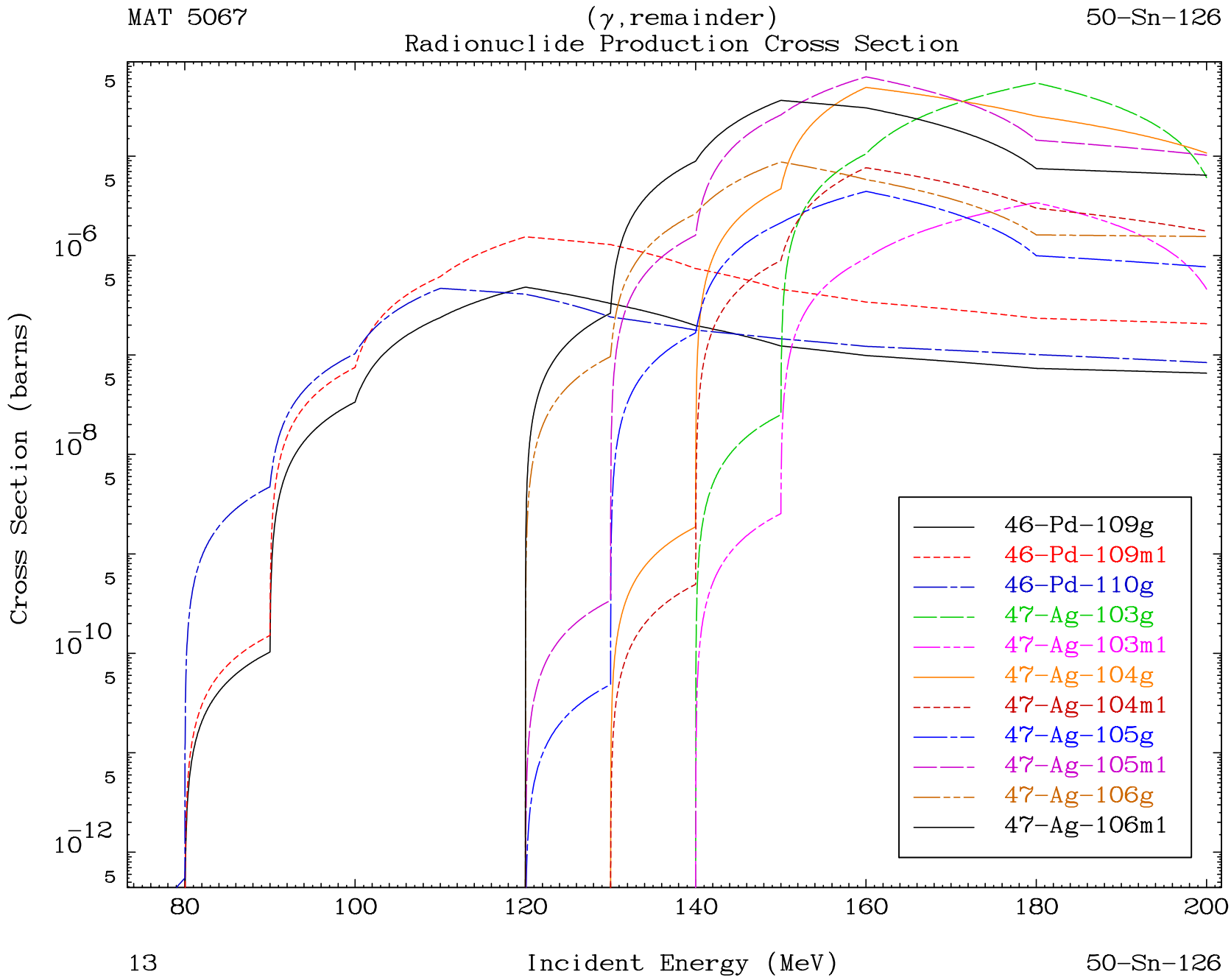

MAT 5067
(γ,α) Levels
50-Sn-126
0 Kelvin Cross Sections
(γ,α)
Cross Section (barns)
10-8
10-10
10-12
10-14
5
15
20
25
30
8
Incident Energy (MeV)
50-Sn-126

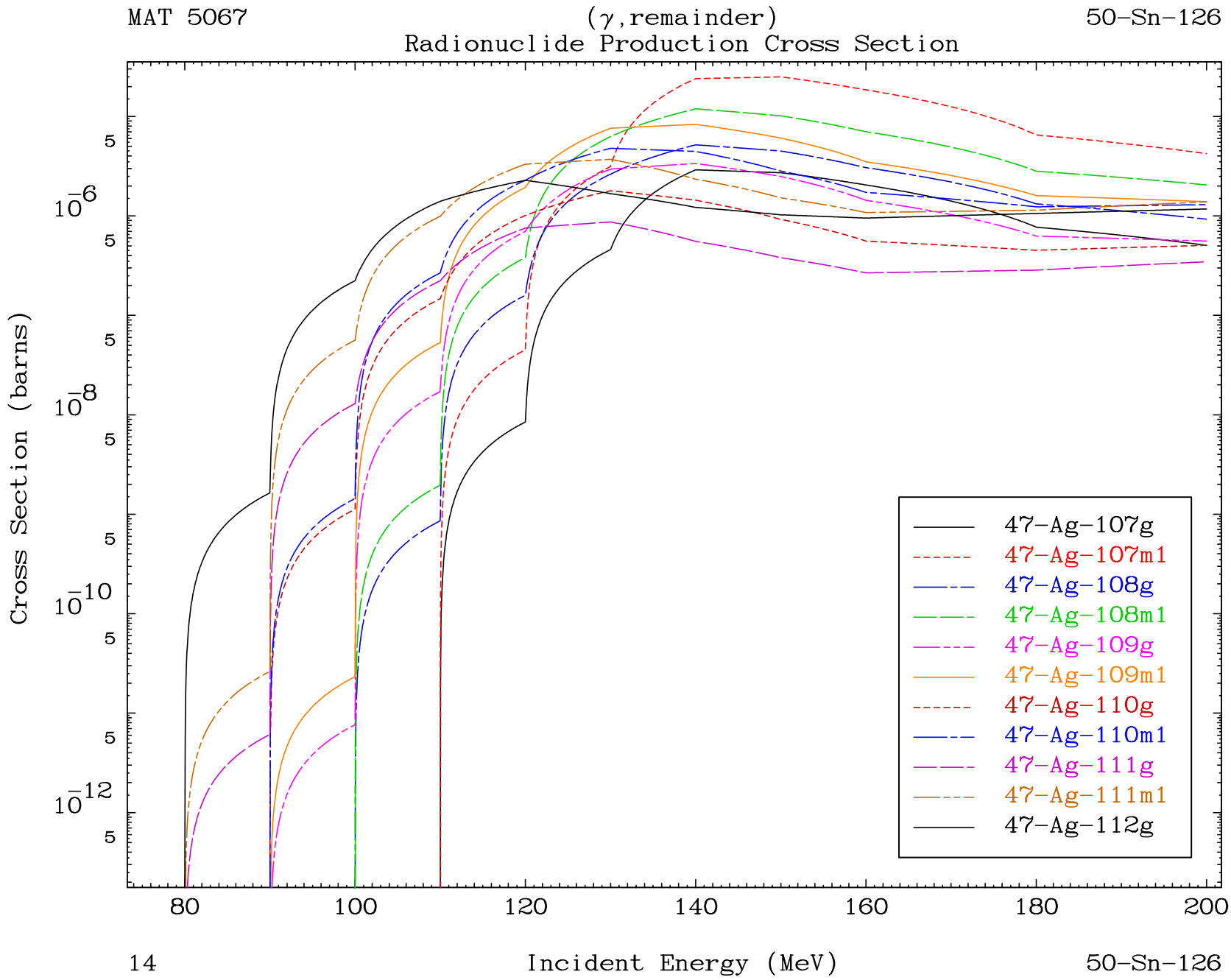

MAT 5067
Photon Inelastic
50-Sn-126
Radionuclide Production Cross Section
50-Sn-125g
50-Sn-125m1
Cross Section (barns)
10^-1
5
10^-2
5
10^-3
5
10^-4
5
10^-5
9
10
15
20
25
30
Incident Energy (MeV)
50-Sn-126


MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Neutron
1-H -1
1-H -2
1-H -3
2-He-3
2-He-4
43-Tc-99g
43-Tc-99m1
43-Tc-100g
44-Ru-100g
44-Ru-101g
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
10
Incident Energy (MeV)
50-Sn-126

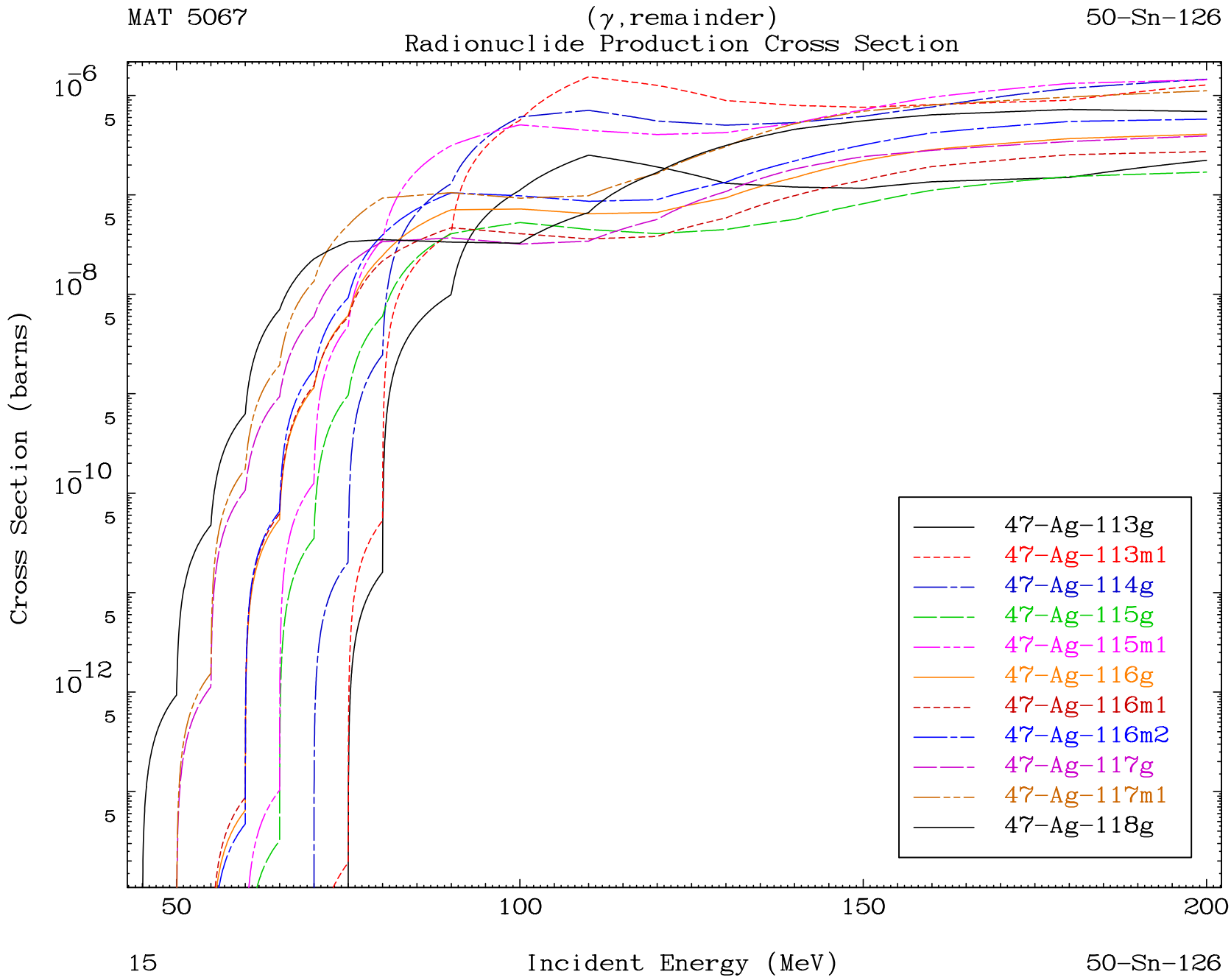

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
100
120
140
160
180
200
11
Incident Energy (MeV)
50-Sn-126
44-Ru-102g
44-Ru-103g
45-Rh-101g
45-Rh-101m1
45-Rh-102g
45-Rh-102m1
45-Rh-103g
45-Rh-103m1
45-Rh-104g
45-Rh-104m1
45-Rh-105g

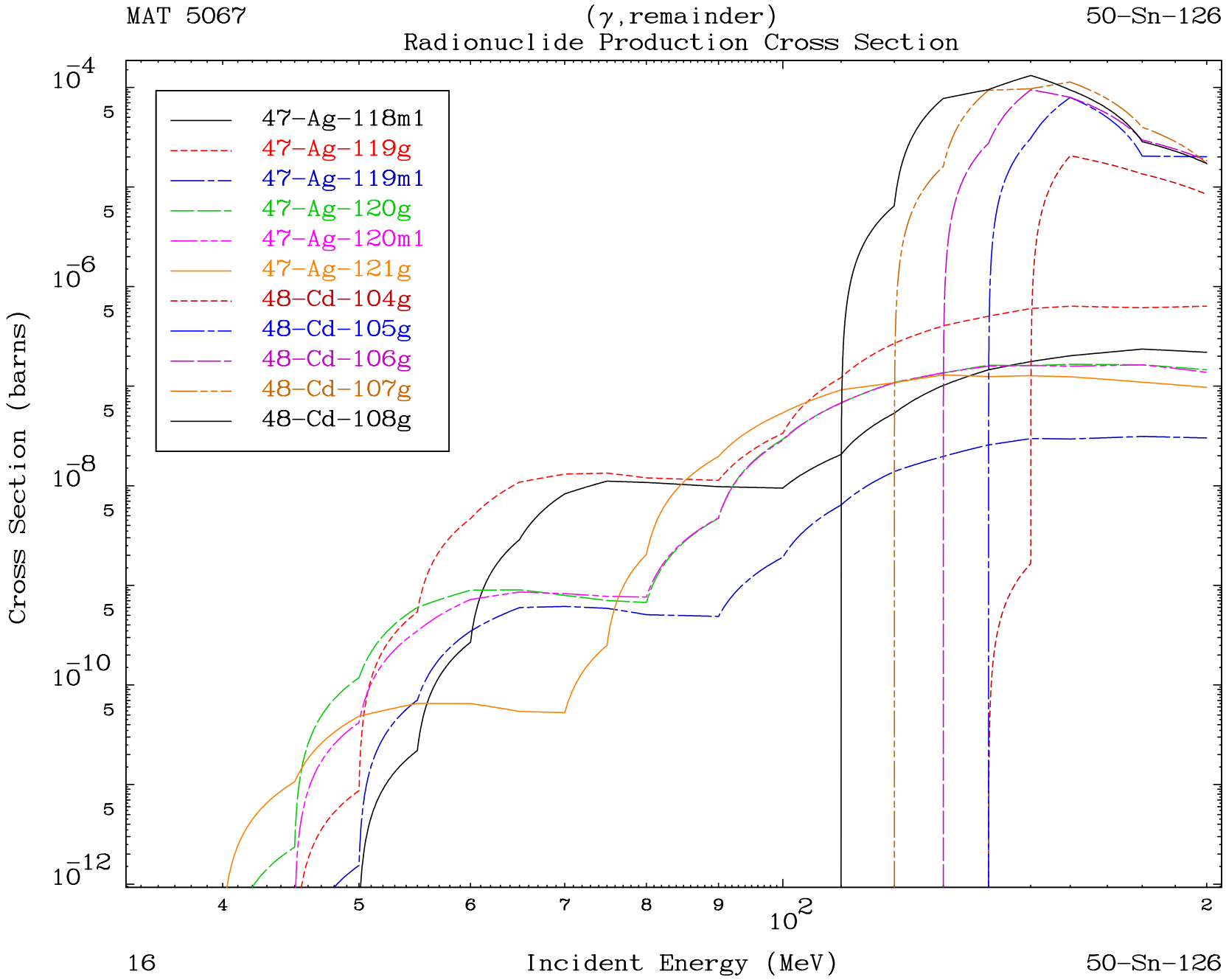

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
80
100
120
140
160
180
200
12
Incident Energy (MeV)
50-Sn-126
45-Rh-105m1
45-Rh-106g
45-Rh-106m1
46-Pd-102g
46-Pd-103g
46-Pd-104g
46-Pd-105g
46-Pd-106g
46-Pd-107g
46-Pd-107m1
46-Pd-108g

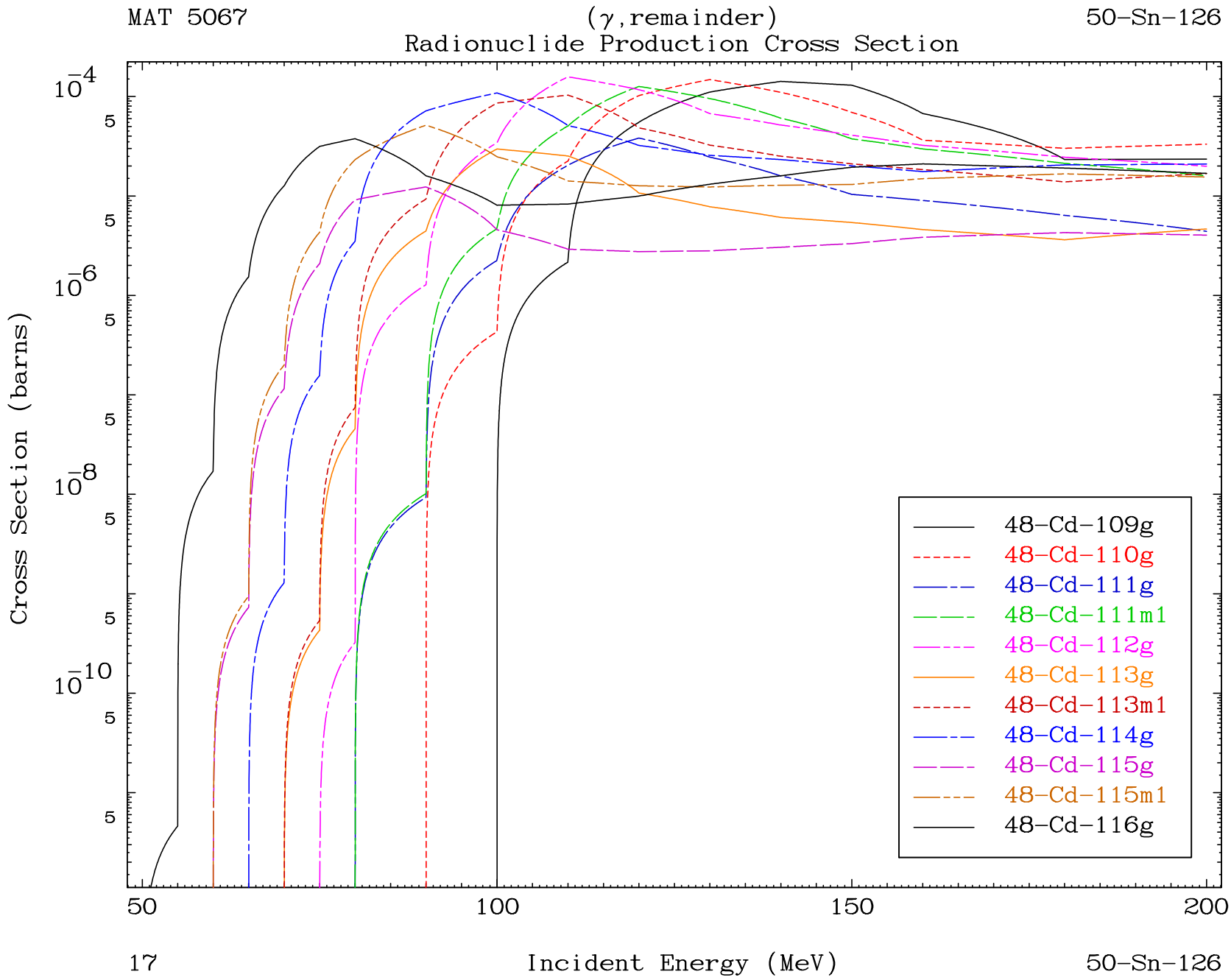

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
5
80
100
120
140
160
180
200
13
Incident Energy (MeV)
50-Sn-126
46-Pd-109g
46-Pd-109m1
46-Pd-110g
47-Ag-103g
47-Ag-103m1
47-Ag-104g
47-Ag-104m1
47-Ag-105g
47-Ag-105m1
47-Ag-106g
47-Ag-106m1

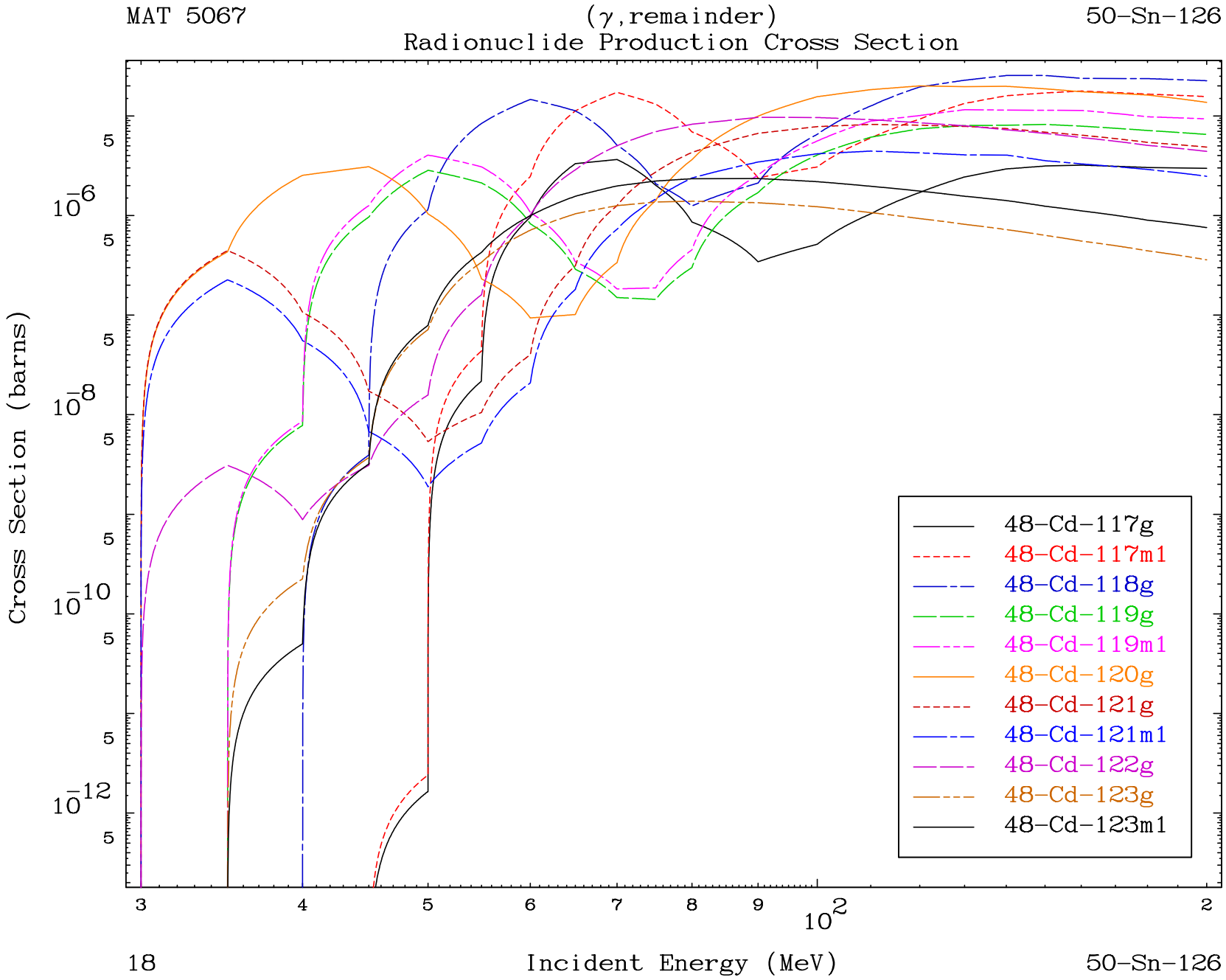

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
5
80
100
120
140
160
180
200
Incident Energy (MeV)
47-Ag-107g
47-Ag-107m1
47-Ag-108g
47-Ag-108m1
47-Ag-109g
47-Ag-109m1
47-Ag-110g
47-Ag-110m1
47-Ag-111g
47-Ag-111m1
47-Ag-112g

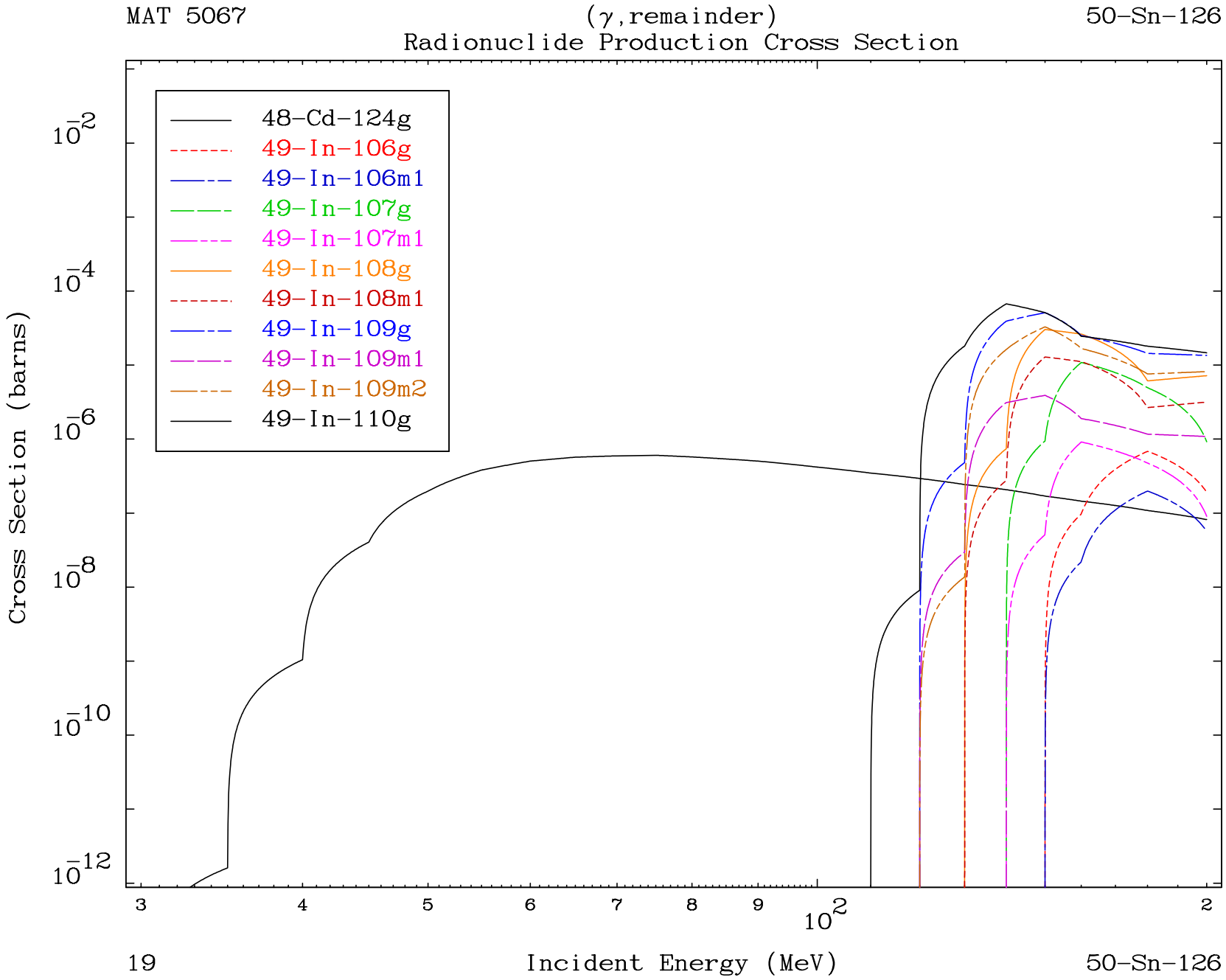
50-Sn-126

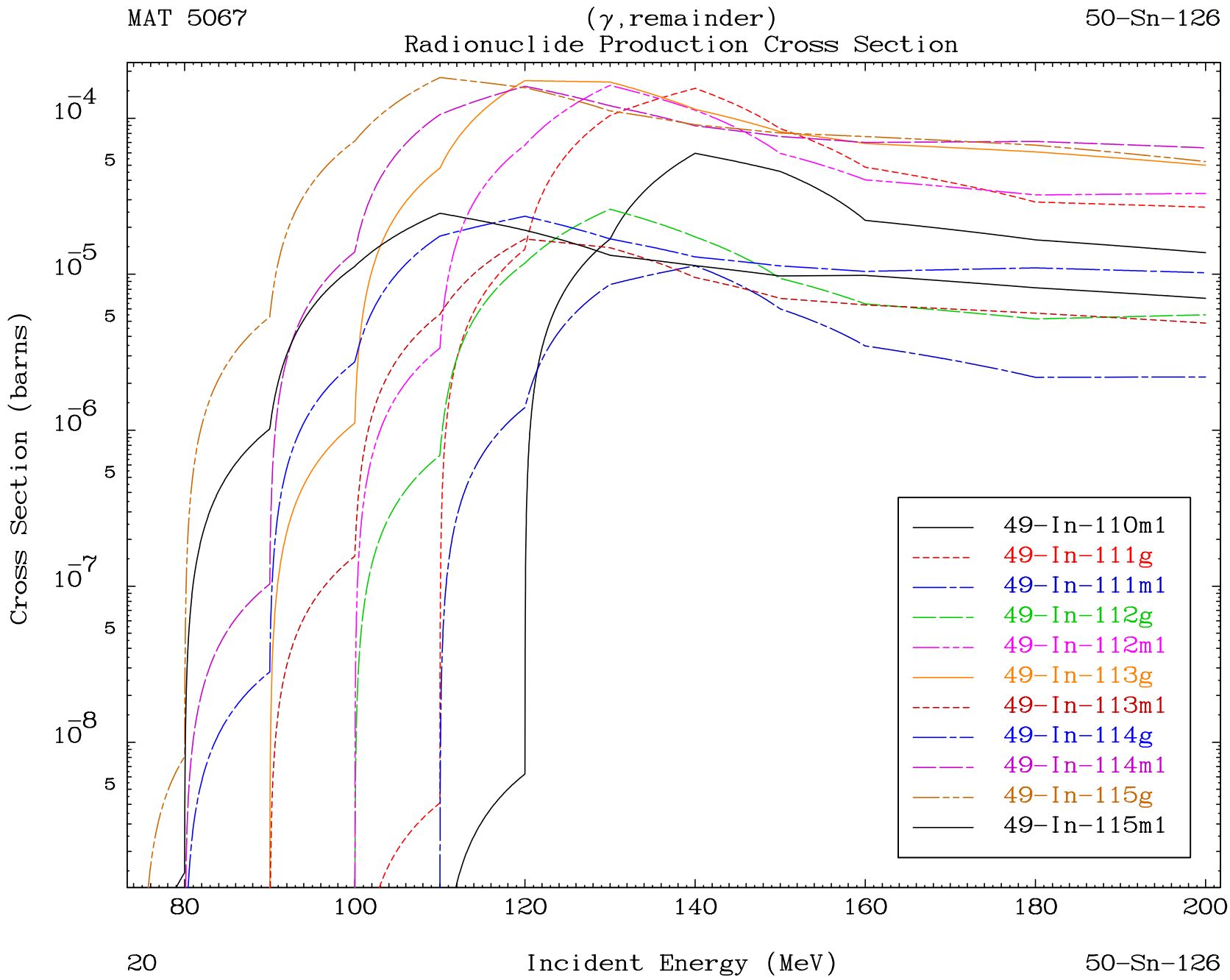

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
50
100
150
200
15
Incident Energy (MeV)
50-Sn-126
47-Ag-113g
47-Ag-113m1
47-Ag-114g
47-Ag-115g
47-Ag-115m1
47-Ag-116g
47-Ag-116m1
47-Ag-116m2
47-Ag-117g
47-Ag-117m1
47-Ag-118g

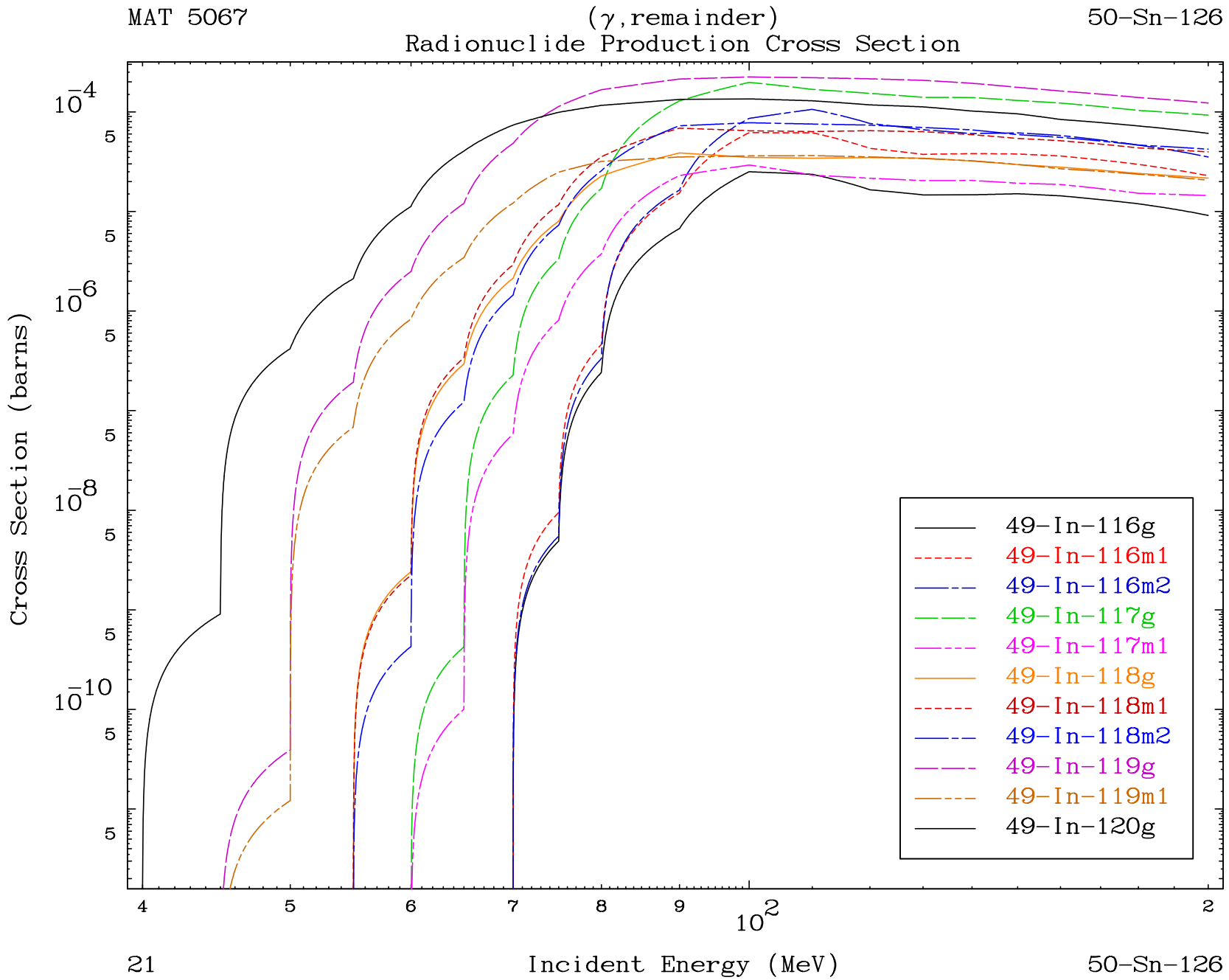

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
47-Ag-118m1
47-Ag-119g
47-Ag-119m1
47-Ag-120g
47-Ag-120m1
47-Ag-121g
48-Cd-104g
48-Cd-105g
48-Cd-106g
48-Cd-107g
48-Cd-108g
Cross Section (barns)
Incident Energy (MeV)
16
50-Sn-126

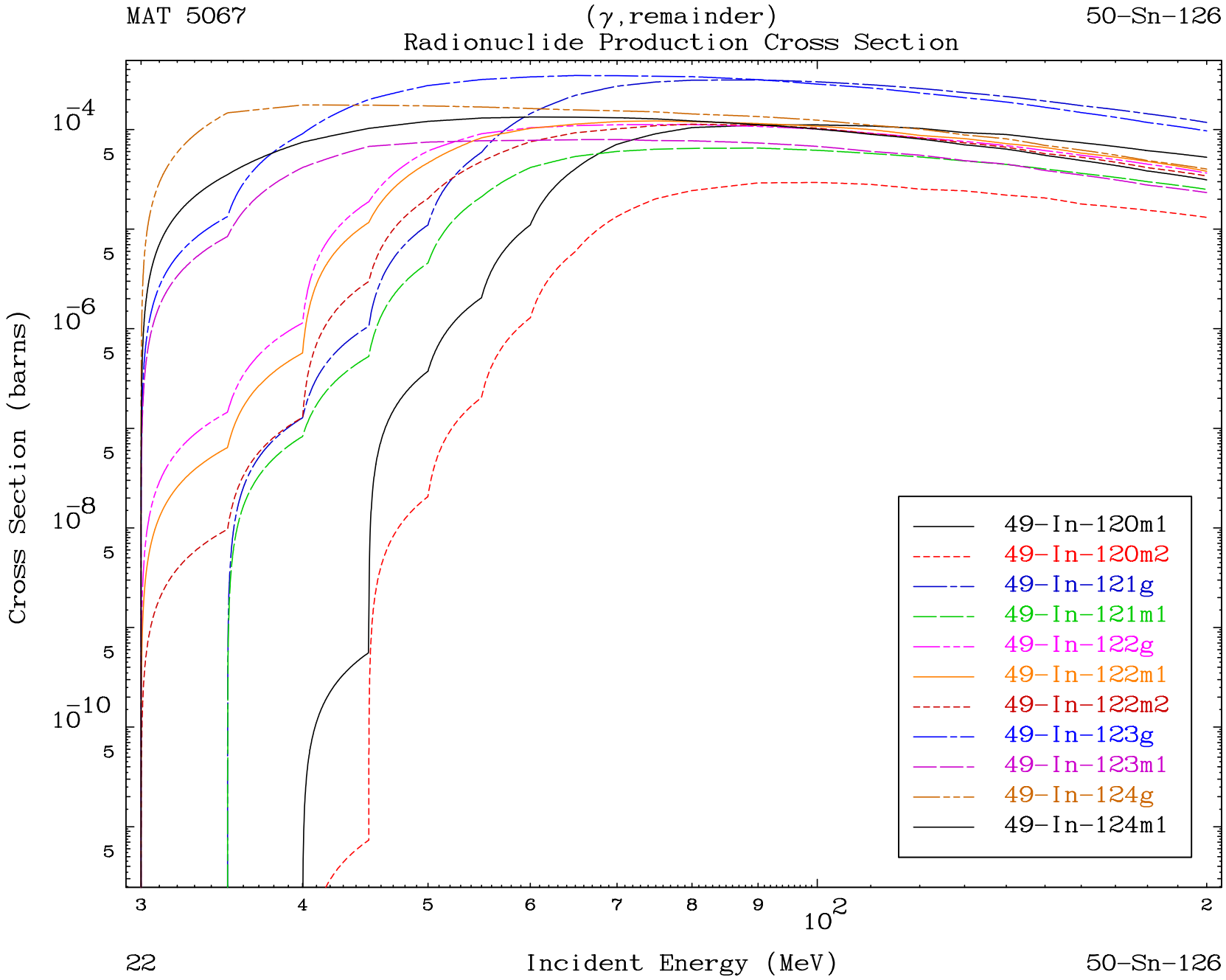

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
50
100
150
200
17
Incident Energy (MeV)
50-Sn-126
48-Cd-109g
48-Cd-110g
48-Cd-111g
48-Cd-111m1
48-Cd-112g
48-Cd-113g
48-Cd-113m1
48-Cd-114g
48-Cd-115g
48-Cd-115m1
48-Cd-116g

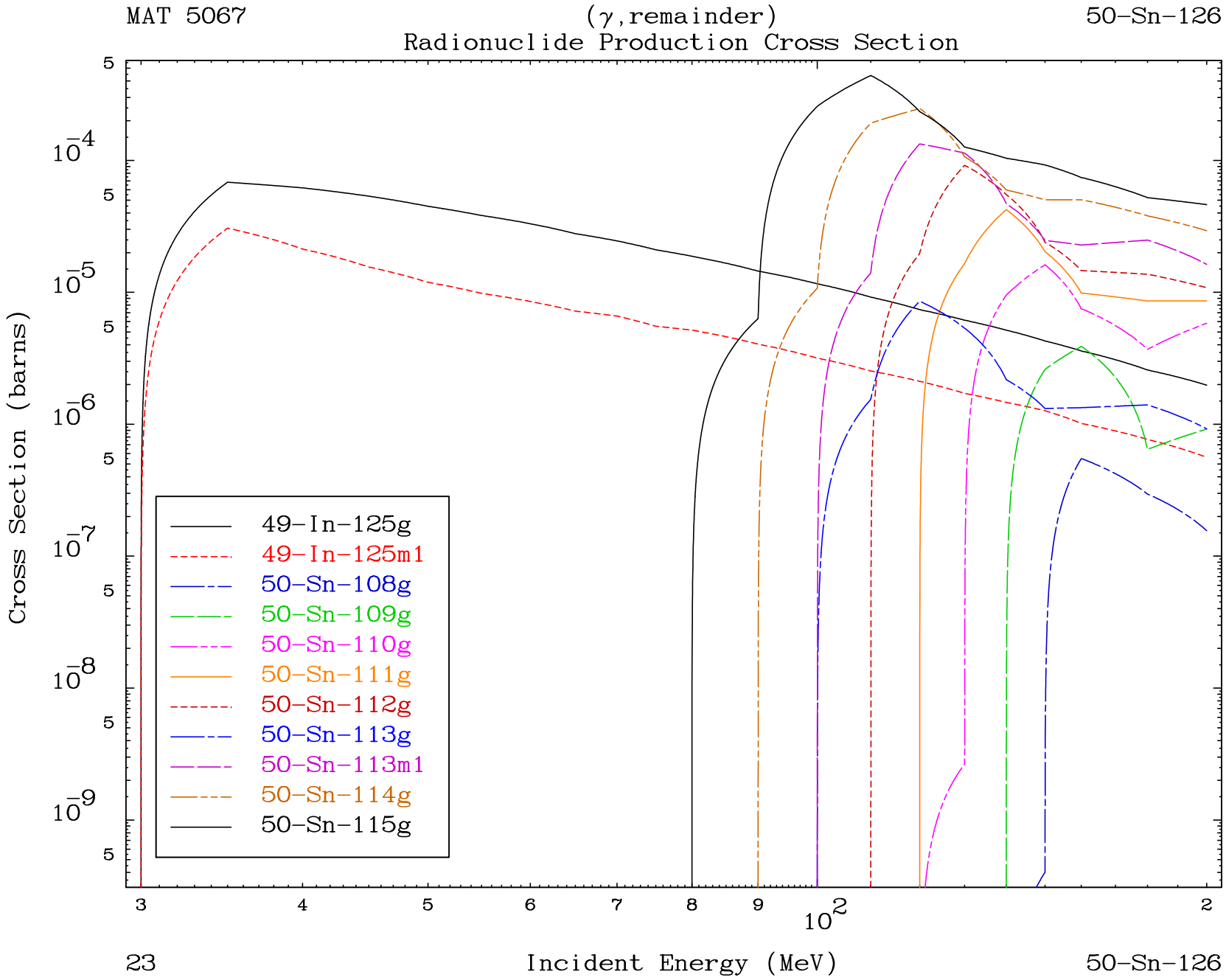

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10 2
2
48-Cd-117g
48-Cd-117m1
48-Cd-118g
48-Cd-119g
48-Cd-119m1
48-Cd-120g
48-Cd-121g
48-Cd-121m1
48-Cd-122g
48-Cd-123g
48-Cd-123m1
18
Incident Energy (MeV)
50-Sn-126

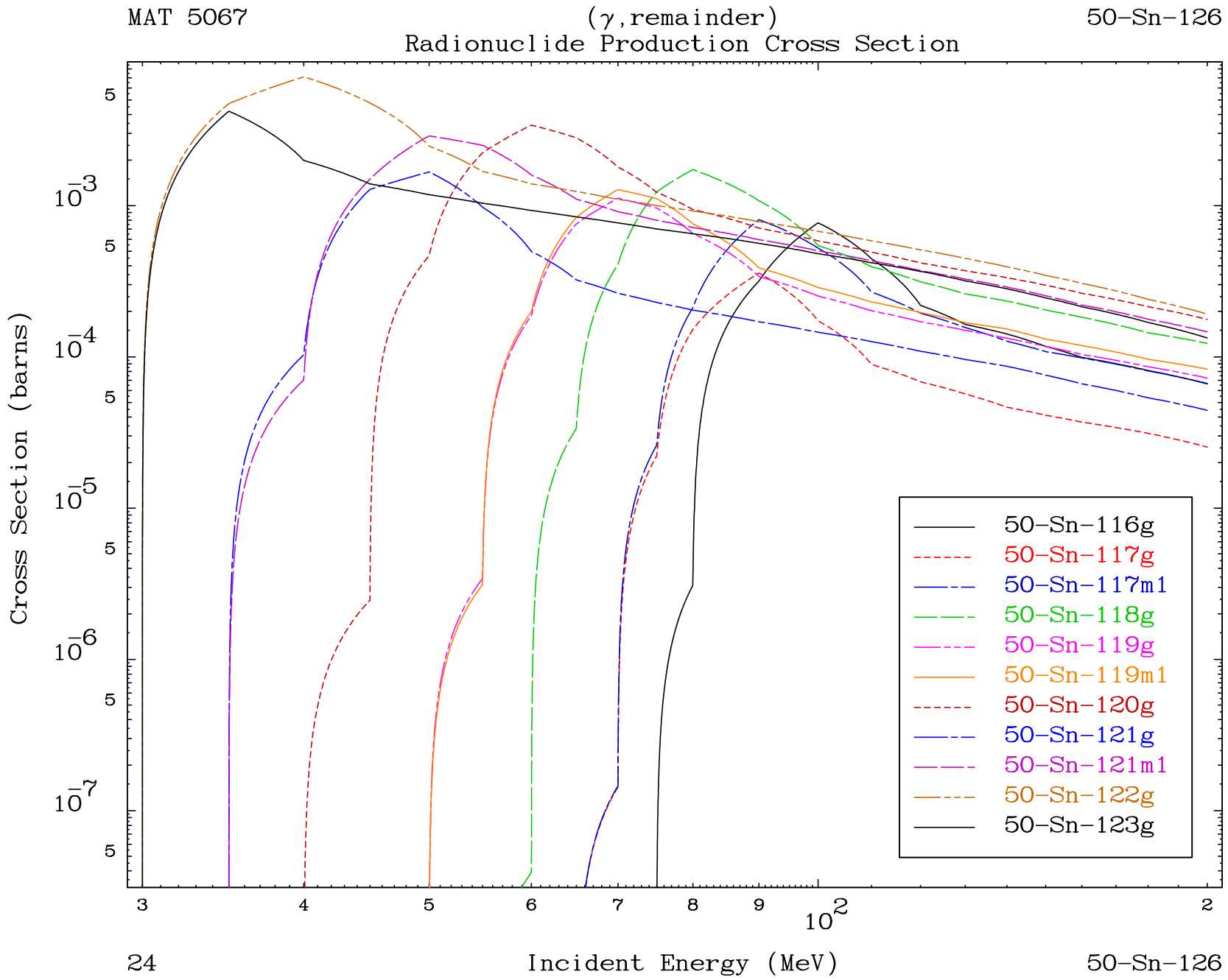

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
48-Cd-124g
49-In-106g
49-In-106m1
49-In-107g
49-In-107m1
49-In-108g
49-In-108m1
49-In-109g
49-In-109m1
49-In-109m2
49-In-110g
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-10
10^-12
3
4
5
6
7
8
9
10^2
2
19
Incident Energy (MeV)
50-Sn-126

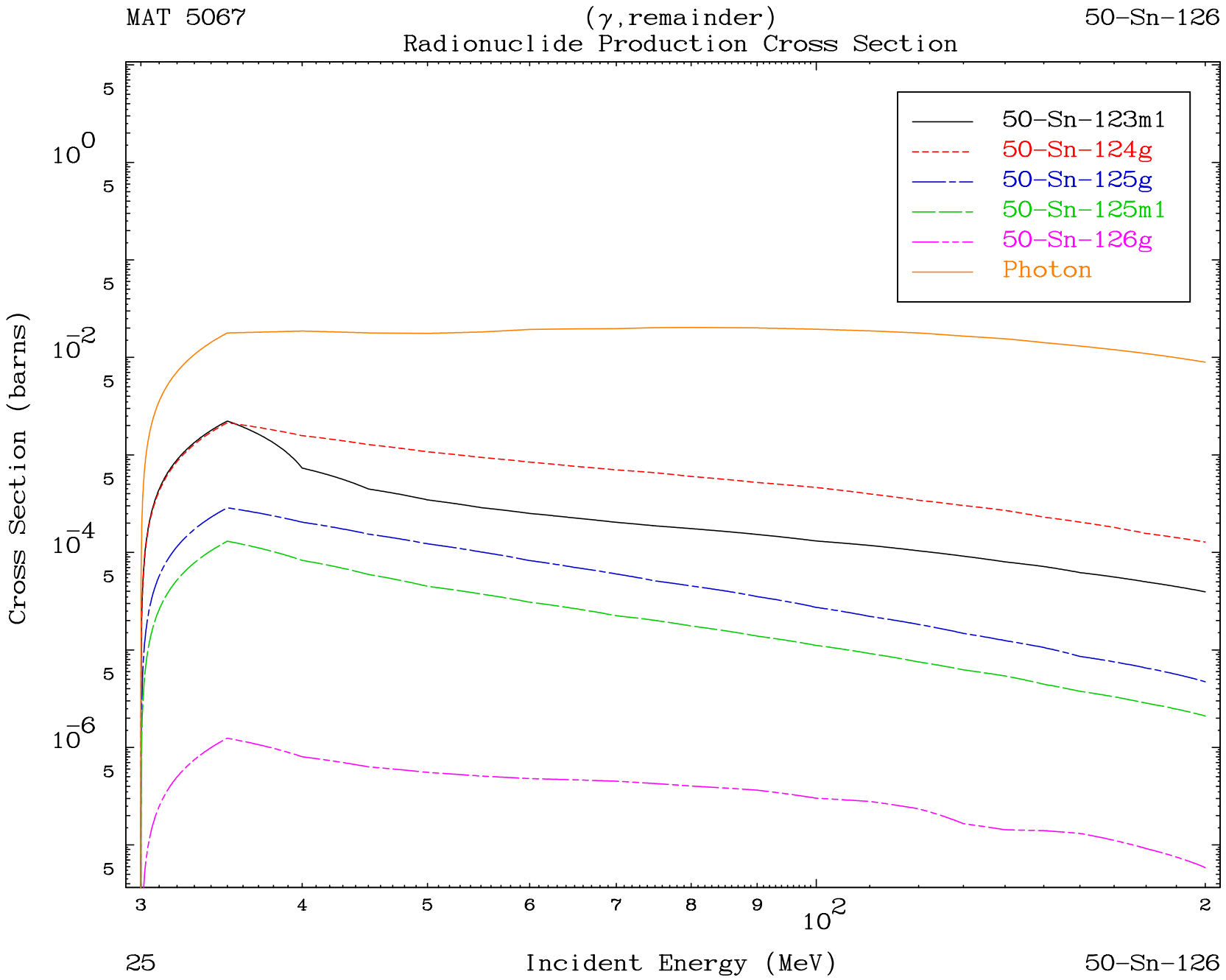

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-4
5
10-5
5
10-6
5
10-7
5
10-8
5
80
100
120
140
160
180
200
20
Incident Energy (MeV)
50-Sn-126
49-In-110m1
49-In-111g
49-In-111m1
49-In-112g
49-In-112m1
49-In-113g
49-In-113m1
49-In-114g
49-In-114m1
49-In-115g
49-In-115m1

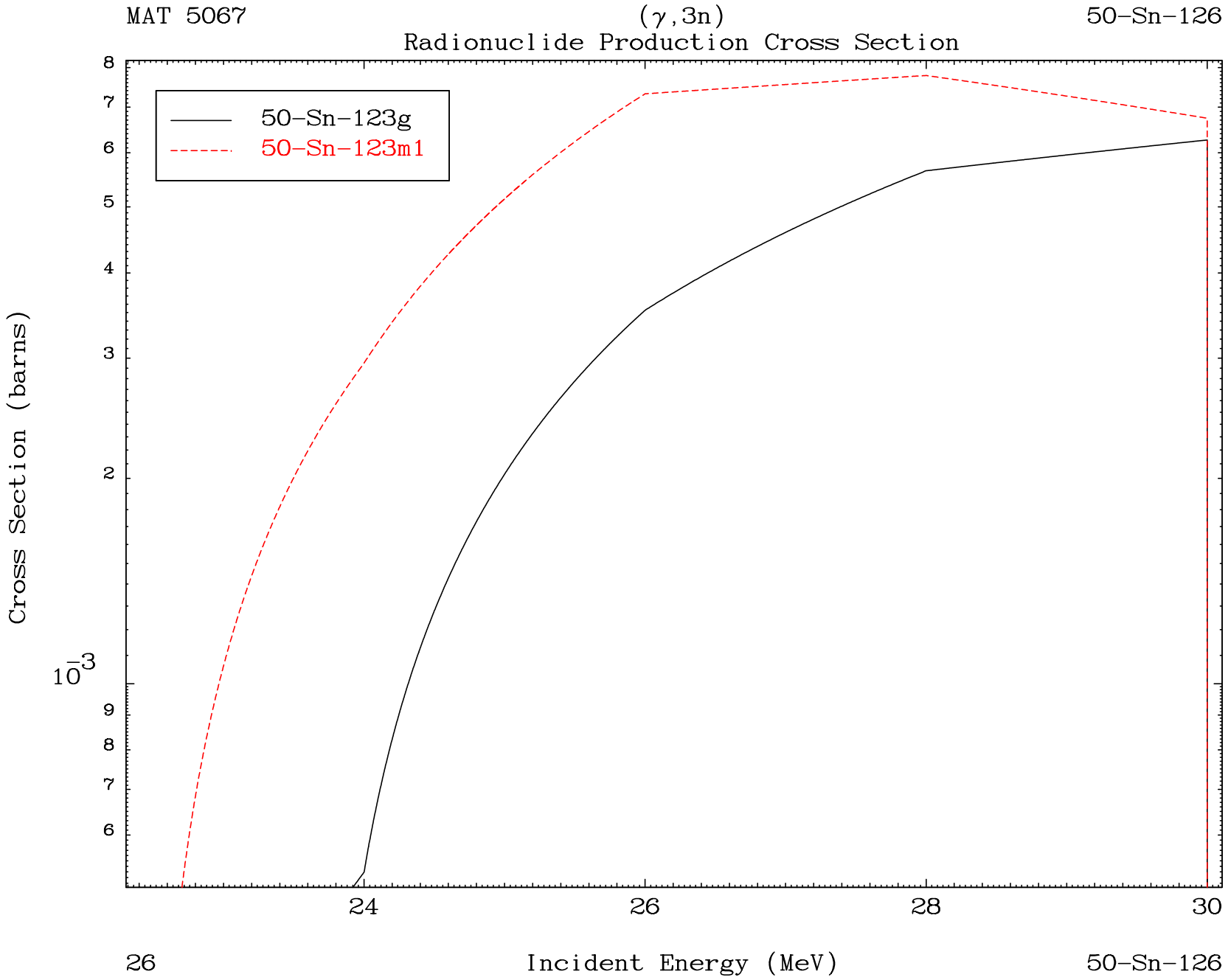

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
5
4
6
7
8
9
10 2
2
Incident Energy (MeV)
21
50-Sn-126
49-In-116g
49-In-116m1
49-In-116m2
49-In-117g
49-In-117m1
49-In-118g
49-In-118m1
49-In-118m2
49-In-119g
49-In-119m1
49-In-120g

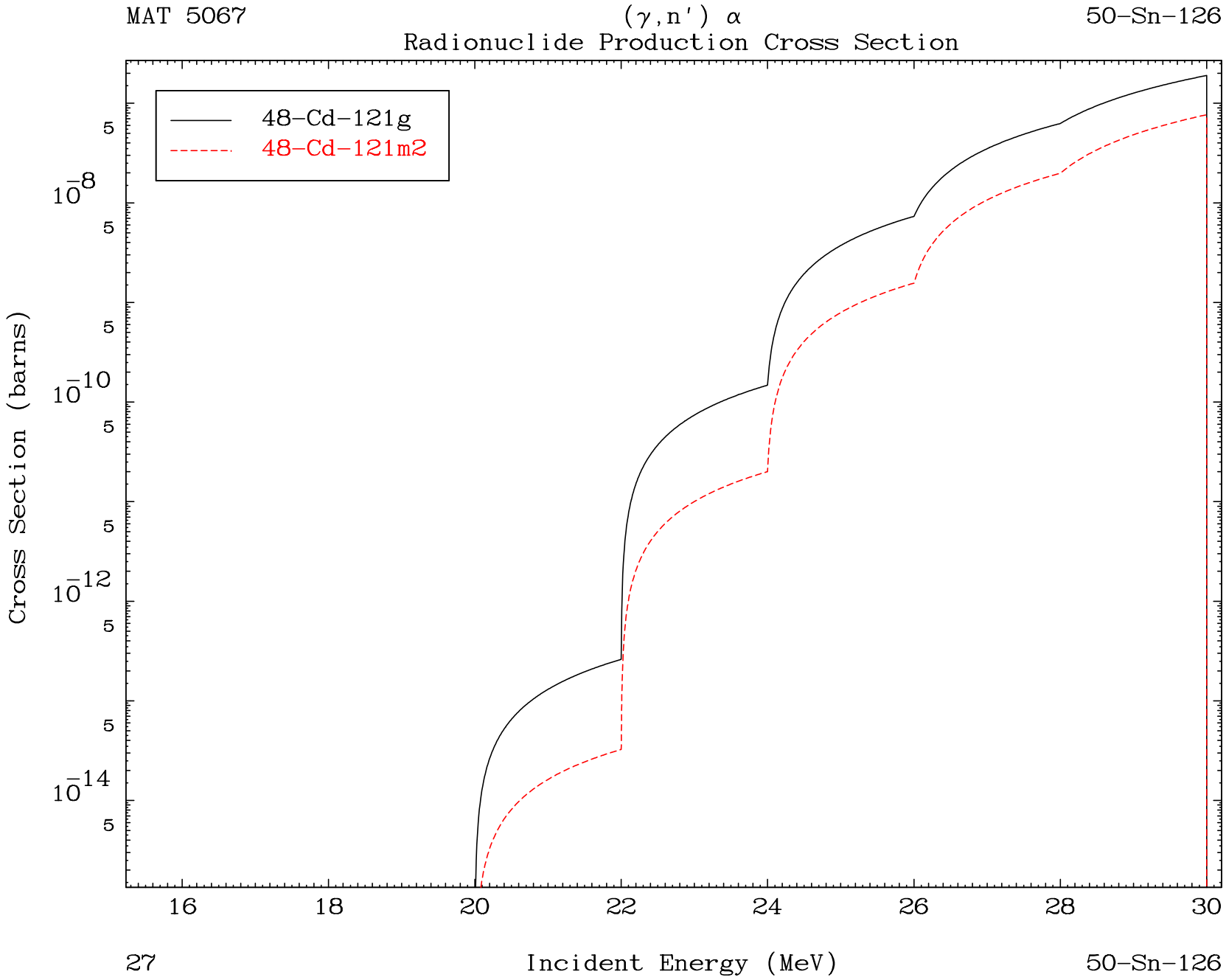

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
5
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
22
50-Sn-126
49-In-120m1
49-In-120m2
49-In-121g
49-In-121m1
49-In-122g
49-In-122m1
49-In-122m2
49-In-123g
49-In-123m1
49-In-124g
49-In-124m1

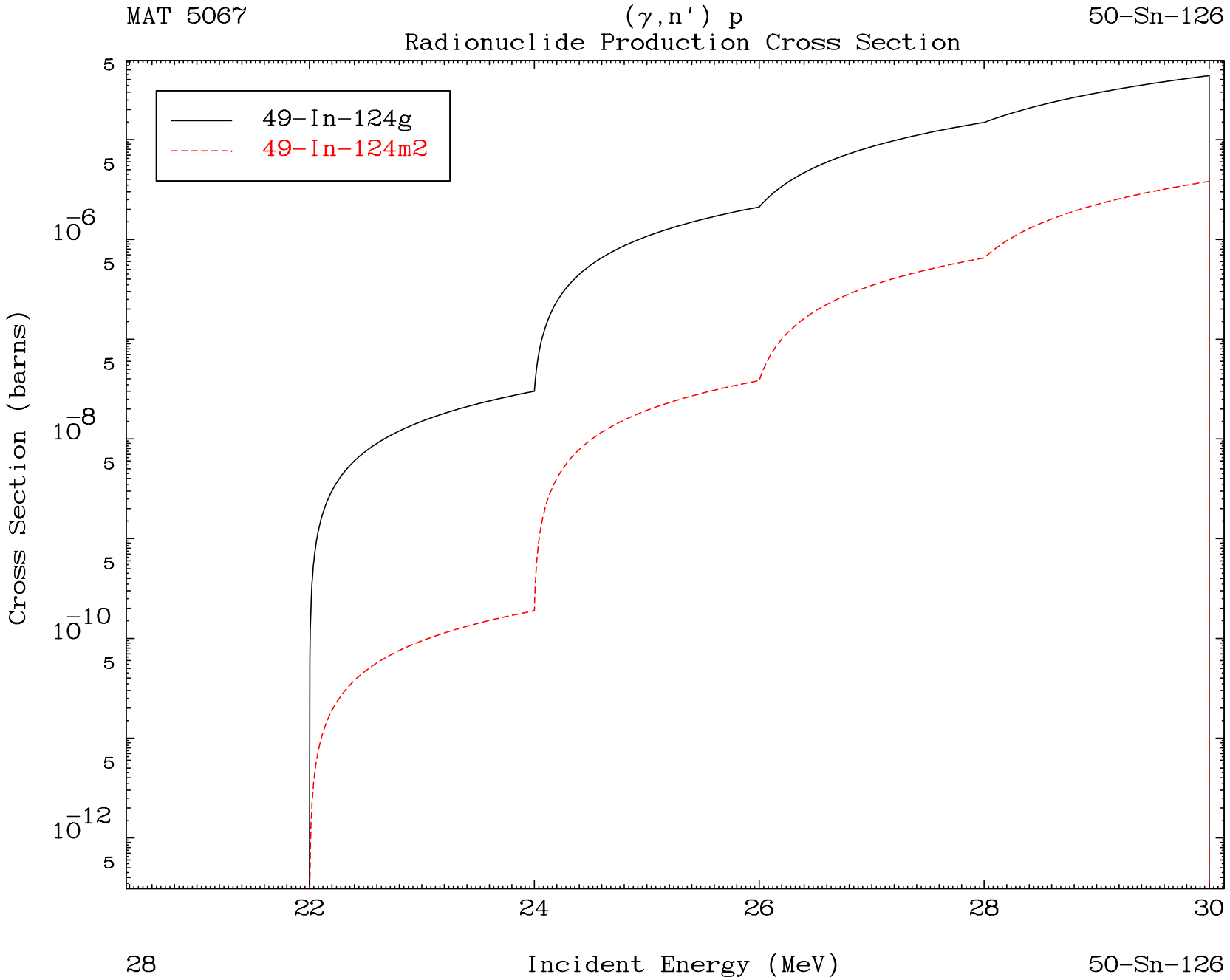

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-5
10-6
10-7
10-8
10-9
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
49-In-125g
49-In-125m1
50-Sn-108g
50-Sn-109g
50-Sn-110g
50-Sn-111g
50-Sn-112g
50-Sn-113g
50-Sn-113m1
50-Sn-114g
50-Sn-115g

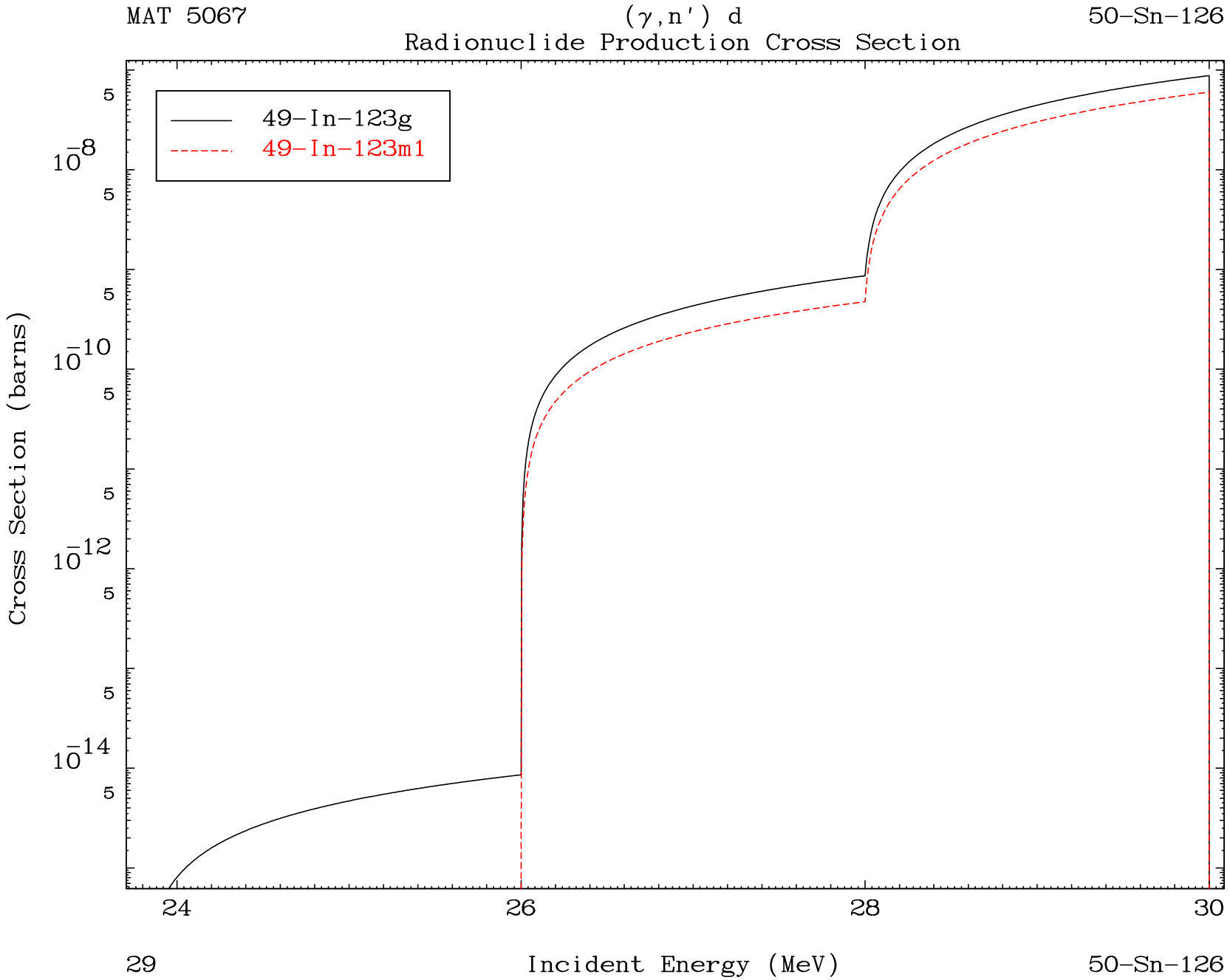

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
Cross Section (barns)
10-3
10-4
10-5
10-6
10-7
3
4
5
6
7
8
9
10 2
2
50-Sn-116g
50-Sn-117g
50-Sn-117m1
50-Sn-118g
50-Sn-119g
50-Sn-119m1
50-Sn-120g
50-Sn-121g
50-Sn-121m1
50-Sn-122g
50-Sn-123g
24
Incident Energy (MeV)
50-Sn-126

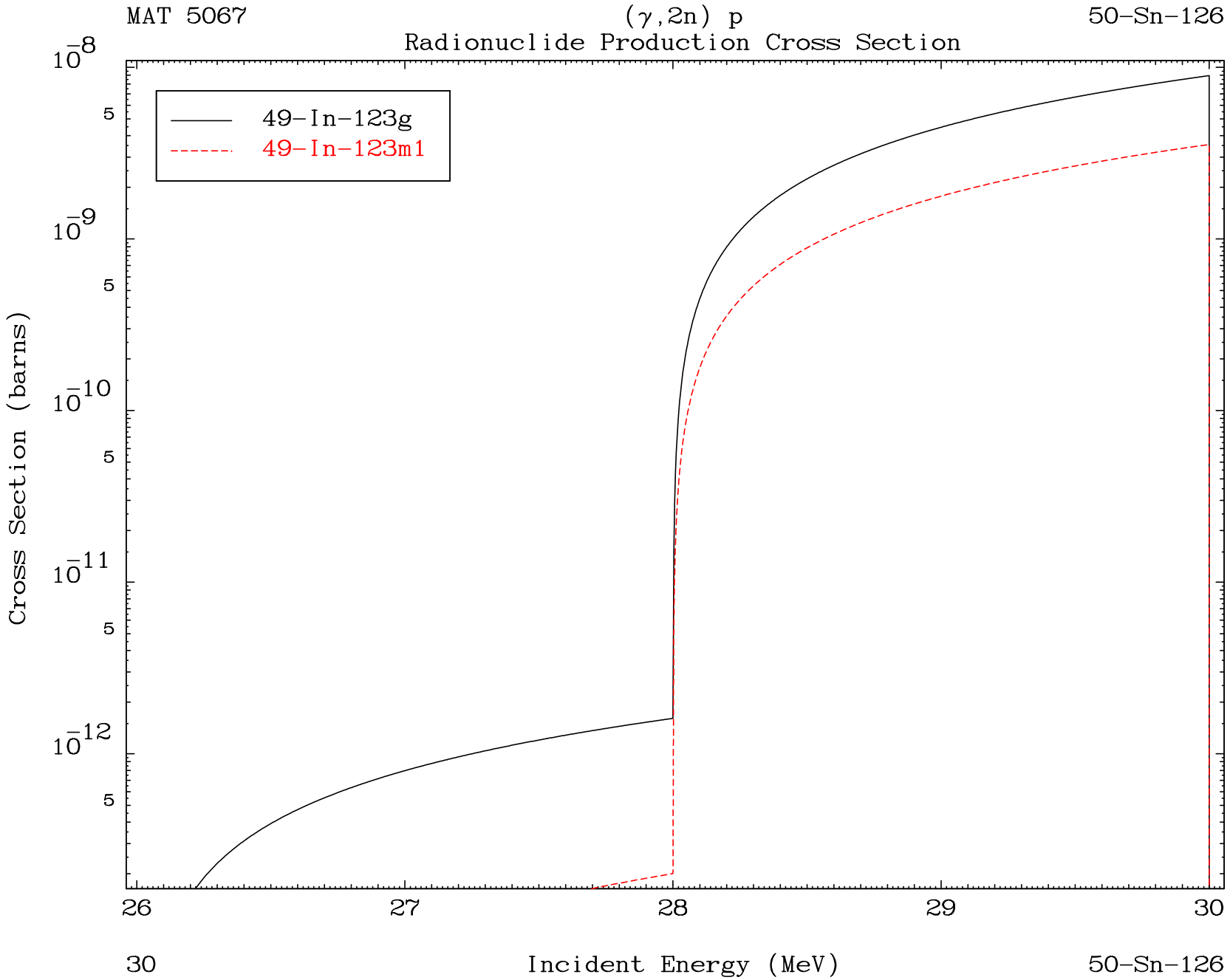

MAT 5067
(γ,remainder)
50-Sn-126
Radionuclide Production Cross Section
50-Sn-123m1
50-Sn-124g
50-Sn-125g
50-Sn-125m1
50-Sn-126g
Photon
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
5
3
4
5
6
7
8
9
10^2
2
25
Incident Energy (MeV)
50-Sn-126

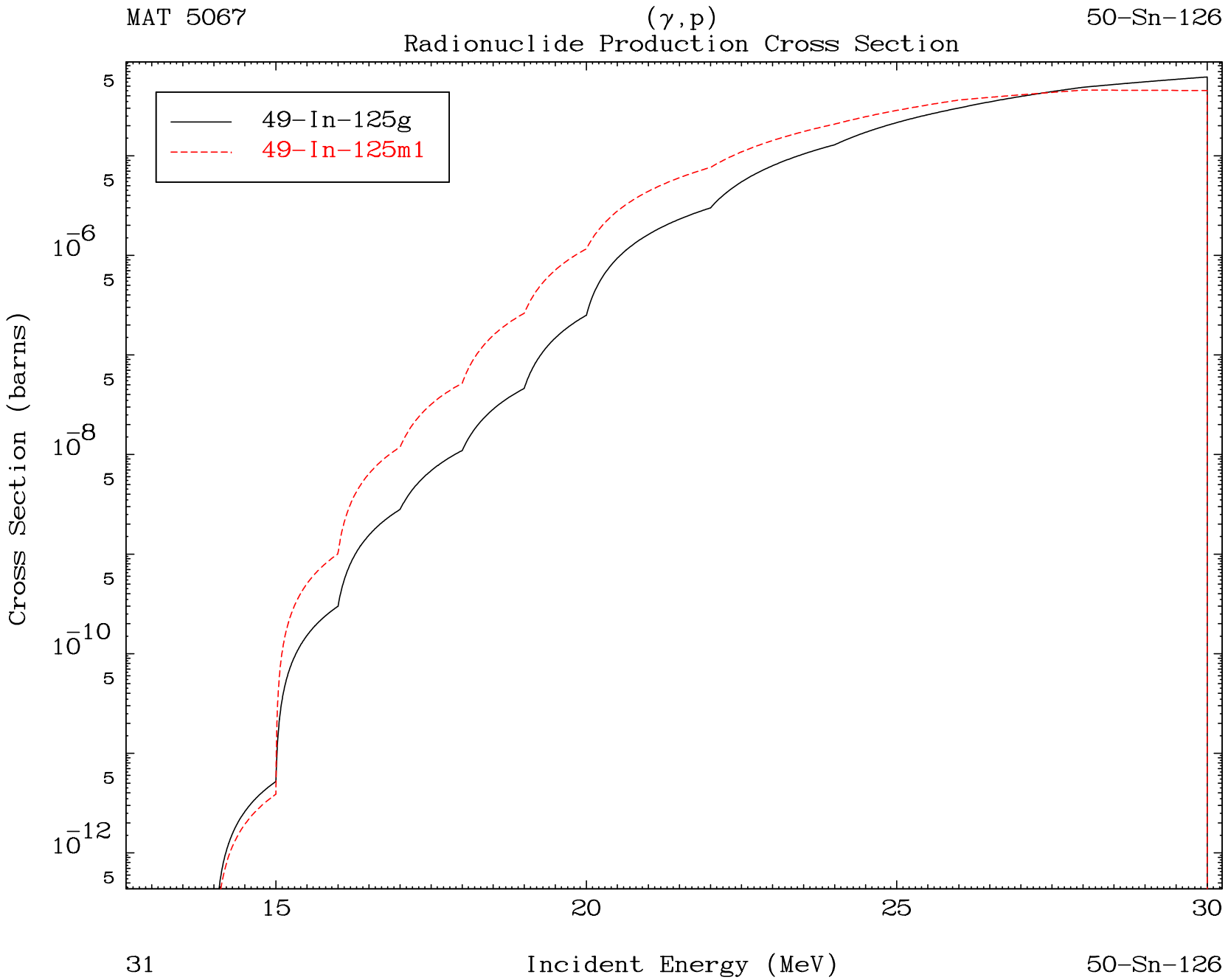

MAT 5067
(γ,3n)
50-Sn-126
Radionuclide Production Cross Section
50-Sn-123g
50-Sn-123m1
Cross Section (barns)
10-3
8
7
6
5
4
3
2
9
8
7
6
24
26
28
30
26
Incident Energy (MeV)
50-Sn-126

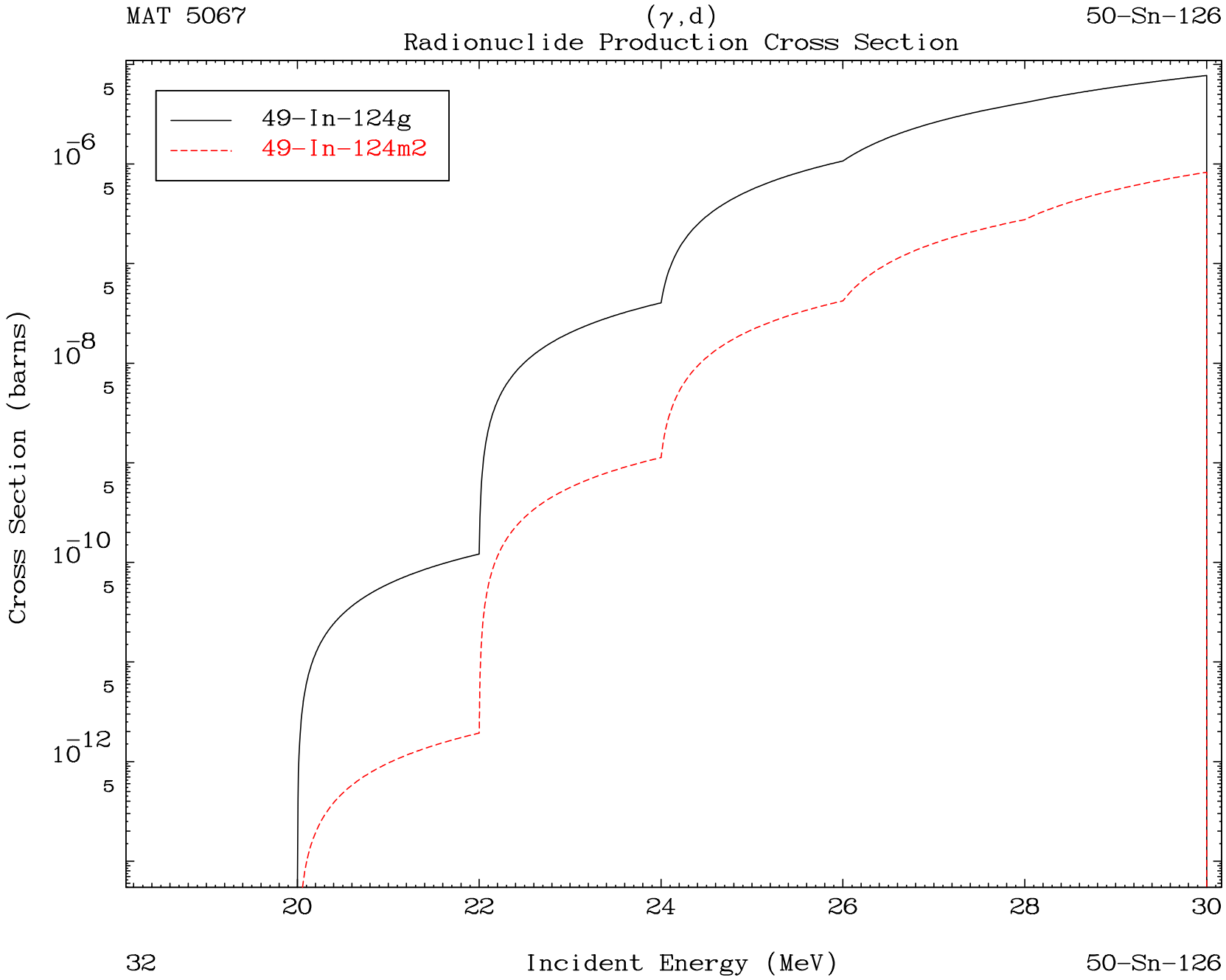

MAT 5067
(γ,n') α
50-Sn-126
Radionuclide Production Cross Section
48-Cd-121g
48-Cd-121m2
Cross Section (barns)
10-8
10-10
10-12
10-14
5
16
18
20
22
24
26
28
30
27
Incident Energy (MeV)
50-Sn-126

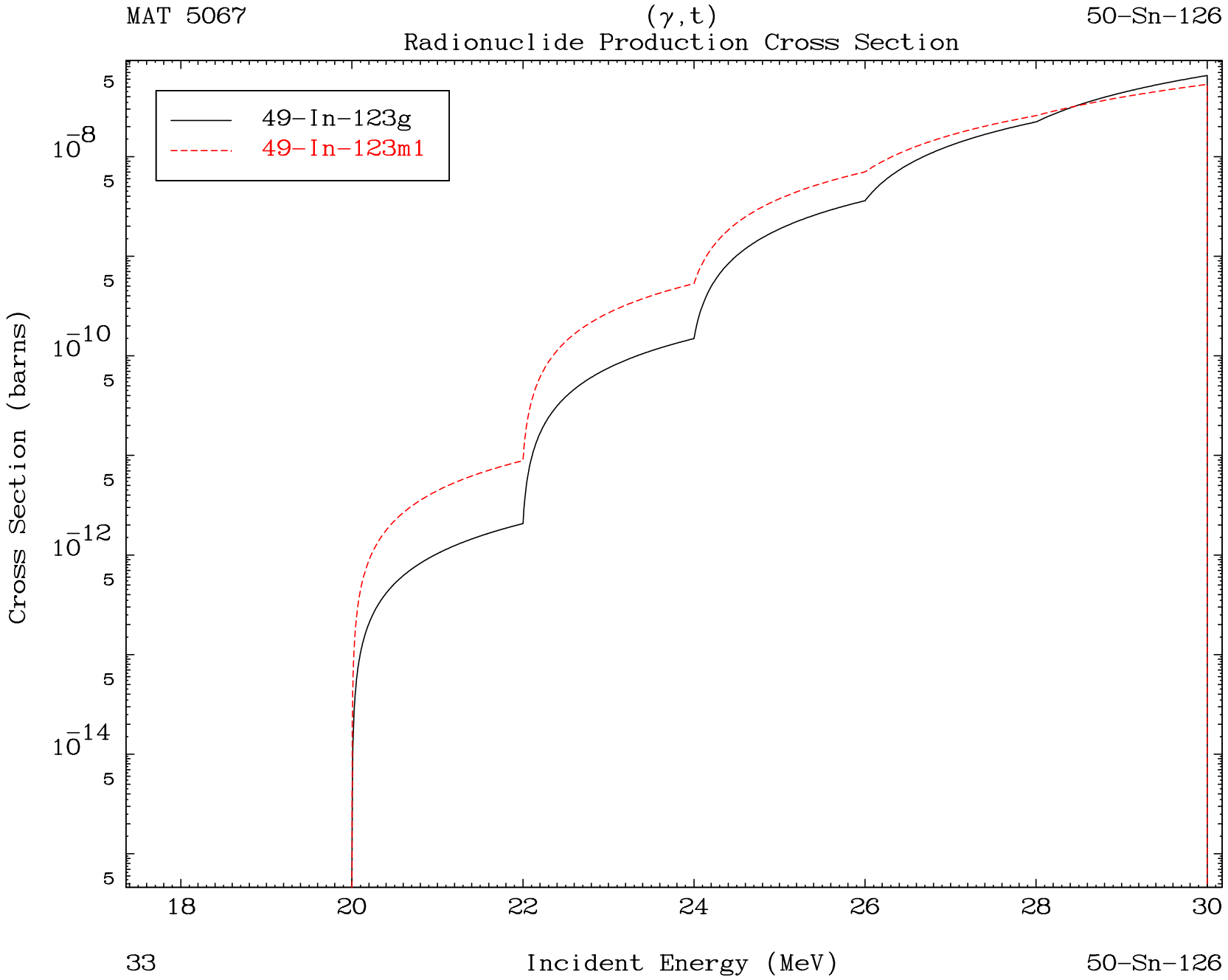

MAT 5067
(γ,n') p
50-Sn-126
Radionuclide Production Cross Section
49-In-124g
49-In-124m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
22
24
26
28
30
28
Incident Energy (MeV)
50-Sn-126


MAT 5067
(γ,n') d
50-Sn-126
Radionuclide Production Cross Section
49-In-123g
49-In-123m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
24
26
28
30
29
Incident Energy (MeV)
50-Sn-126


MAT 5067
(γ,2n) p
50-Sn-126
Radionuclide Production Cross Section
49-In-123g
49-In-123m1
Cross Section (barns)
10-8
5
10-9
5
10-10
5
10-11
5
10-12
5
26
27
28
29
30
30
Incident Energy (MeV)
50-Sn-126


MAT 5067
(γ,p)
50-Sn-126
Radionuclide Production Cross Section
49-In-125g
49-In-125m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
15
20
25
30
31
Incident Energy (MeV)
50-Sn-126


MAT 5067
(γ,d)
50-Sn-126
Radionuclide Production Cross Section
49-In-124g
49-In-124m2
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
20
22
24
26
28
30
32
Incident Energy (MeV)
50-Sn-126


MAT 5067
(γ,t)
50-Sn-126
Radionuclide Production Cross Section
49-In-123g
49-In-123m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
18
20
22
24
26
28
30
33
Incident Energy (MeV)
50-Sn-126