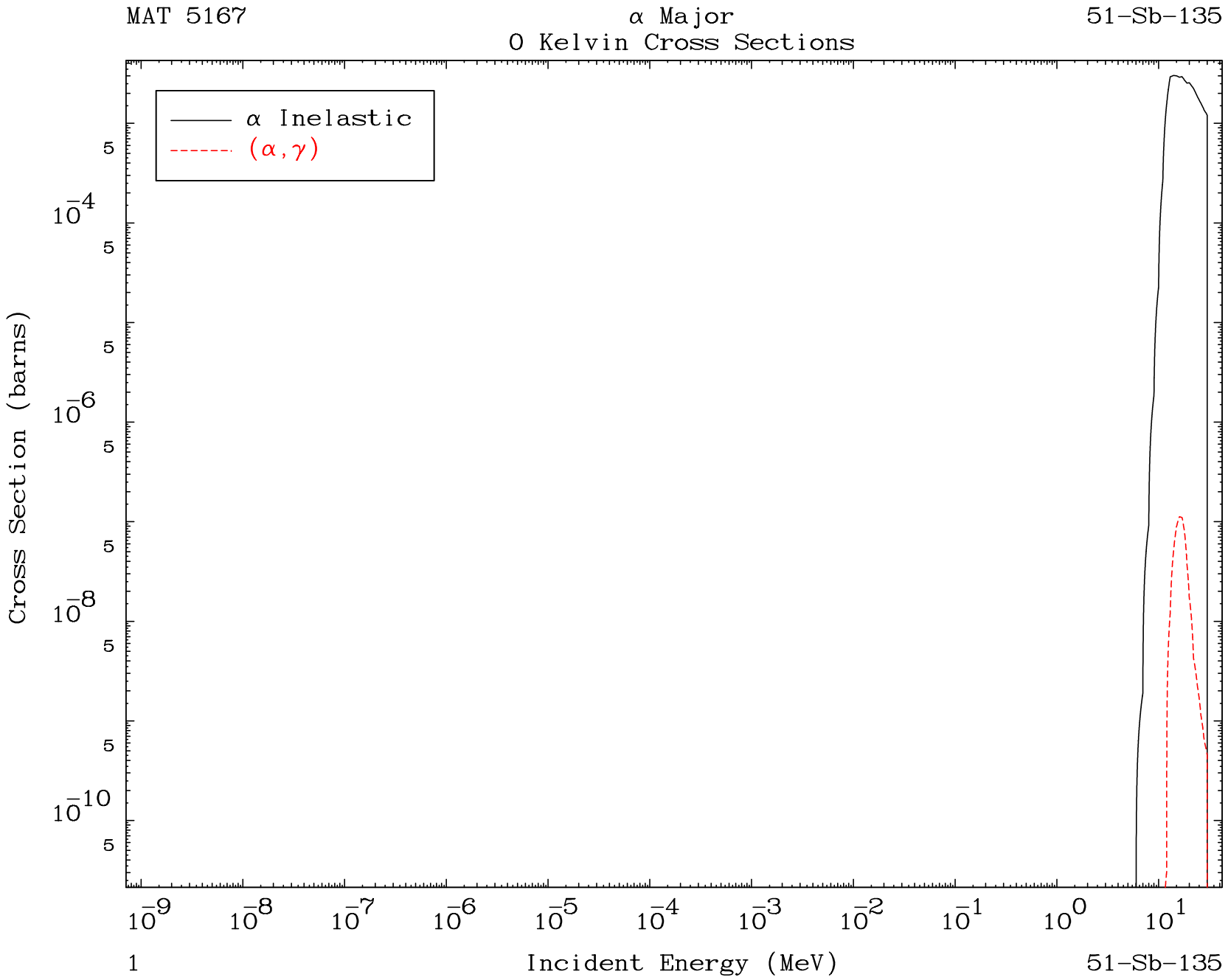
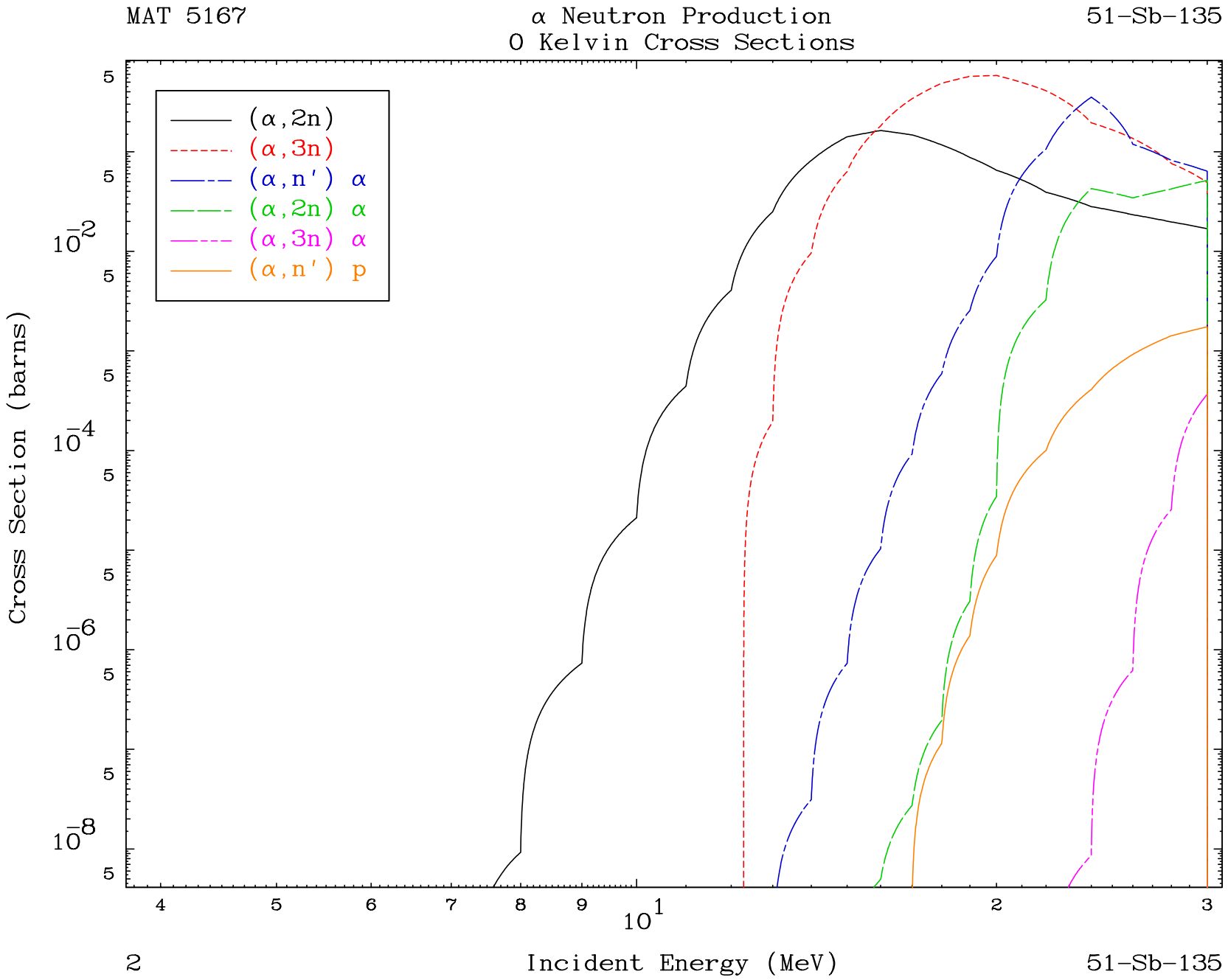
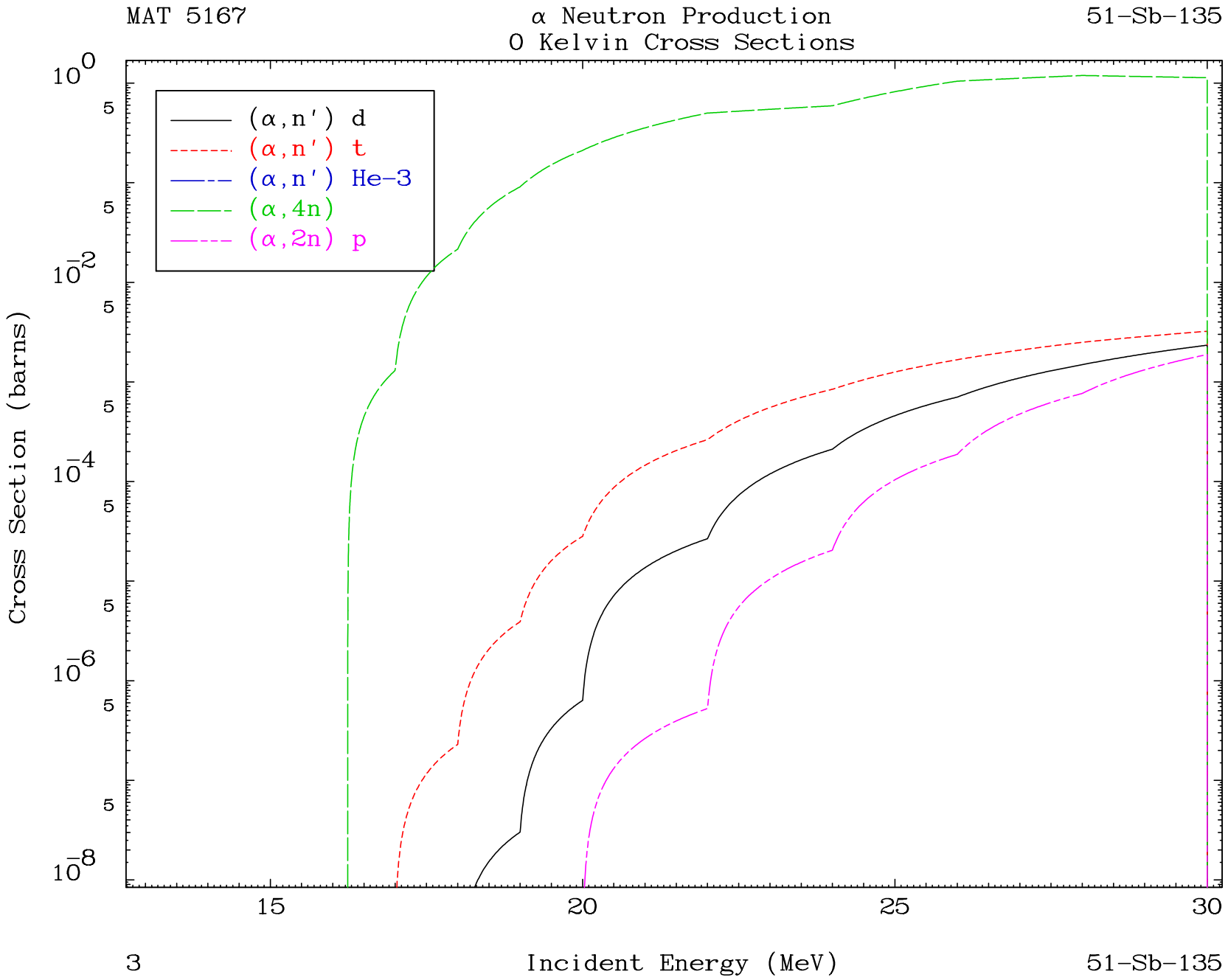
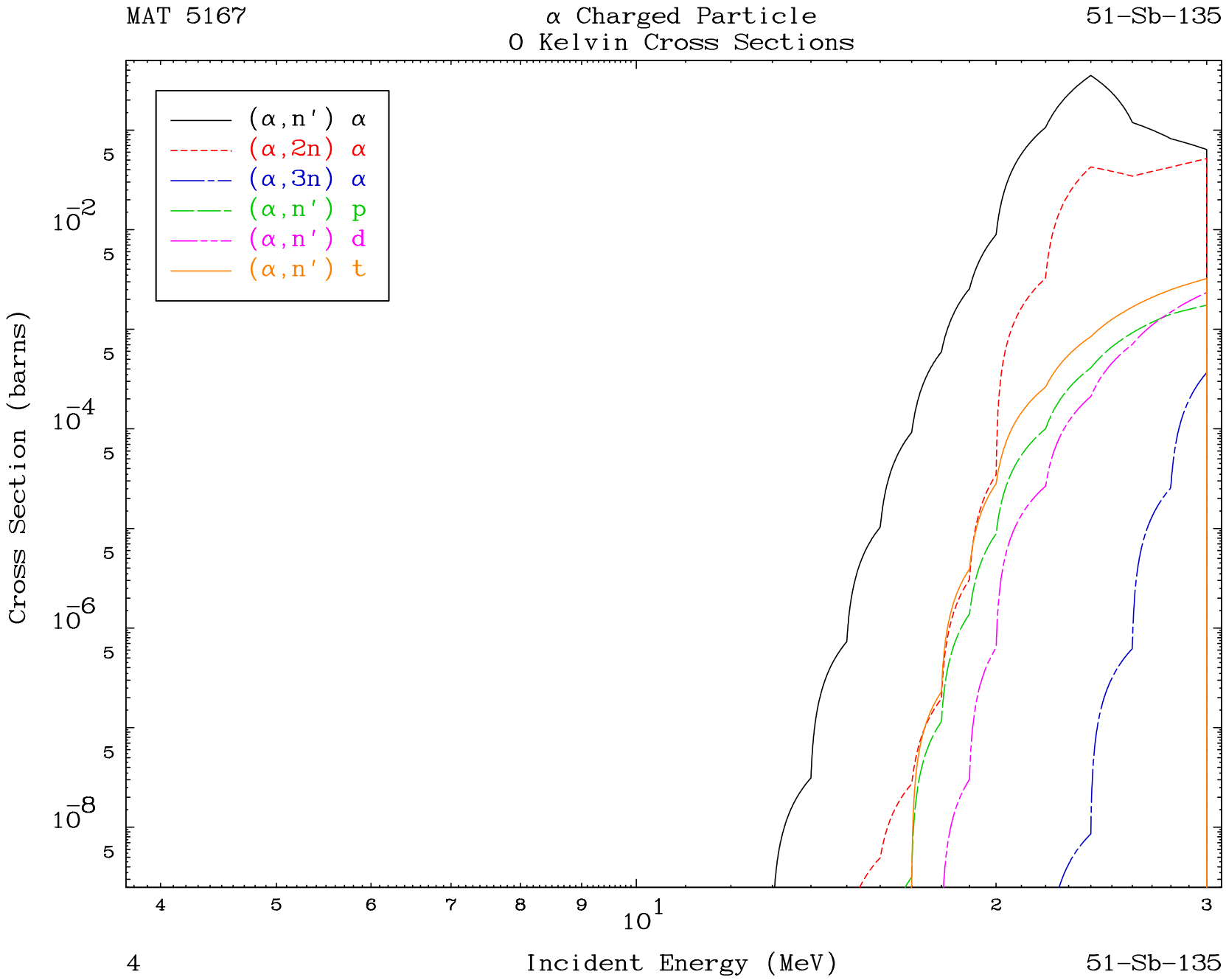
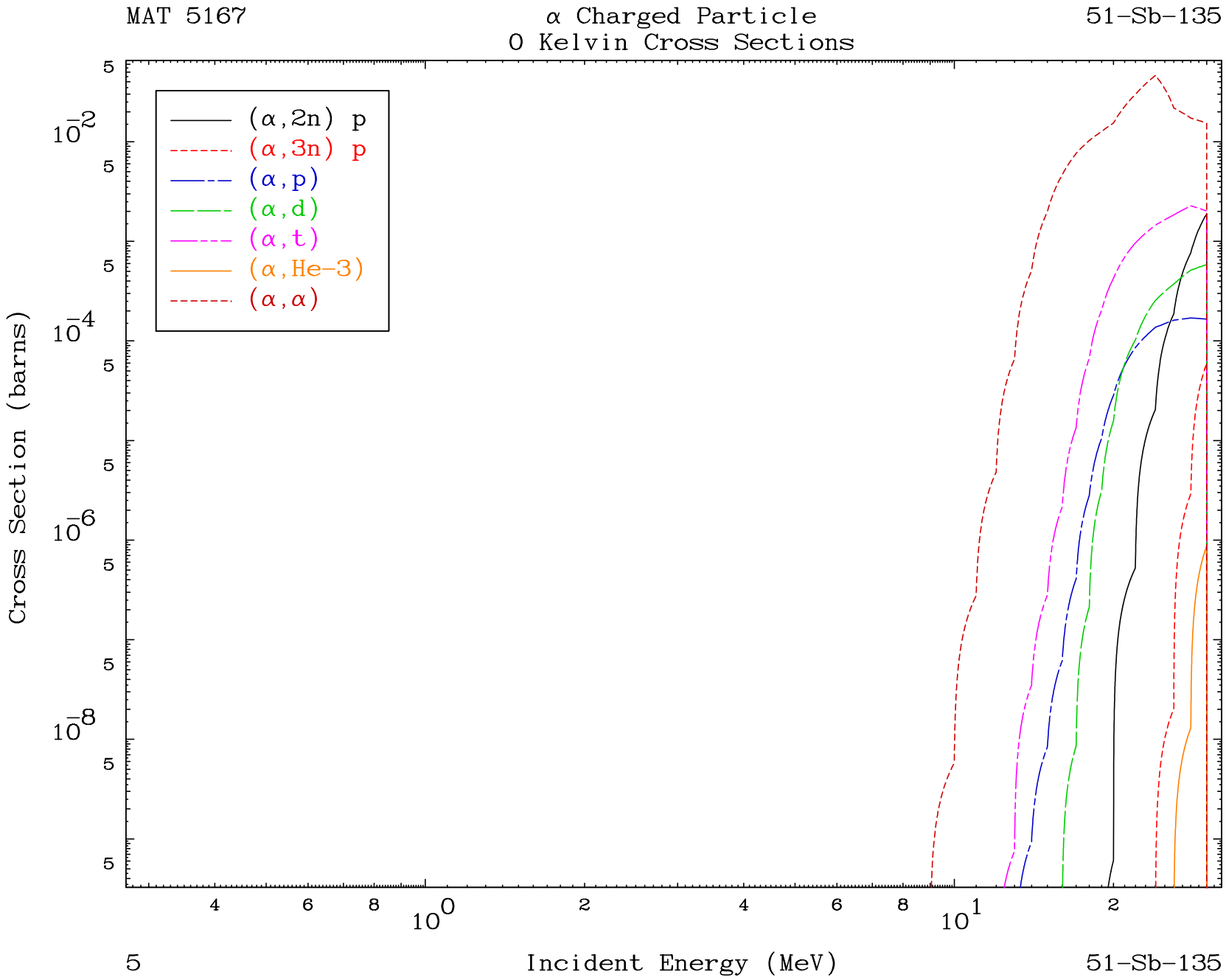
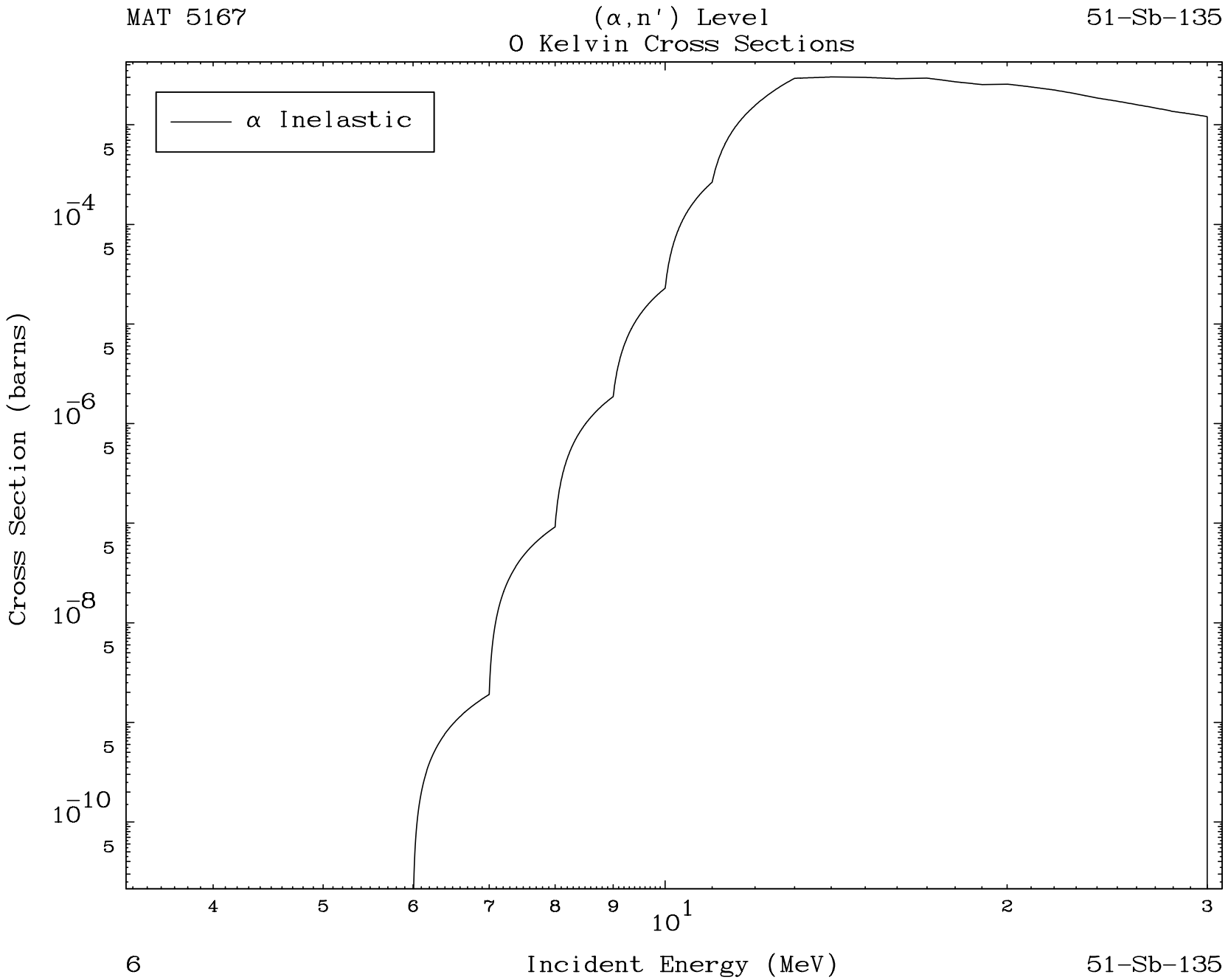

MAT 5167
α Major
51-Sb-135
0 Kelvin Cross Sections
α Inelastic
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
51-Sb-135

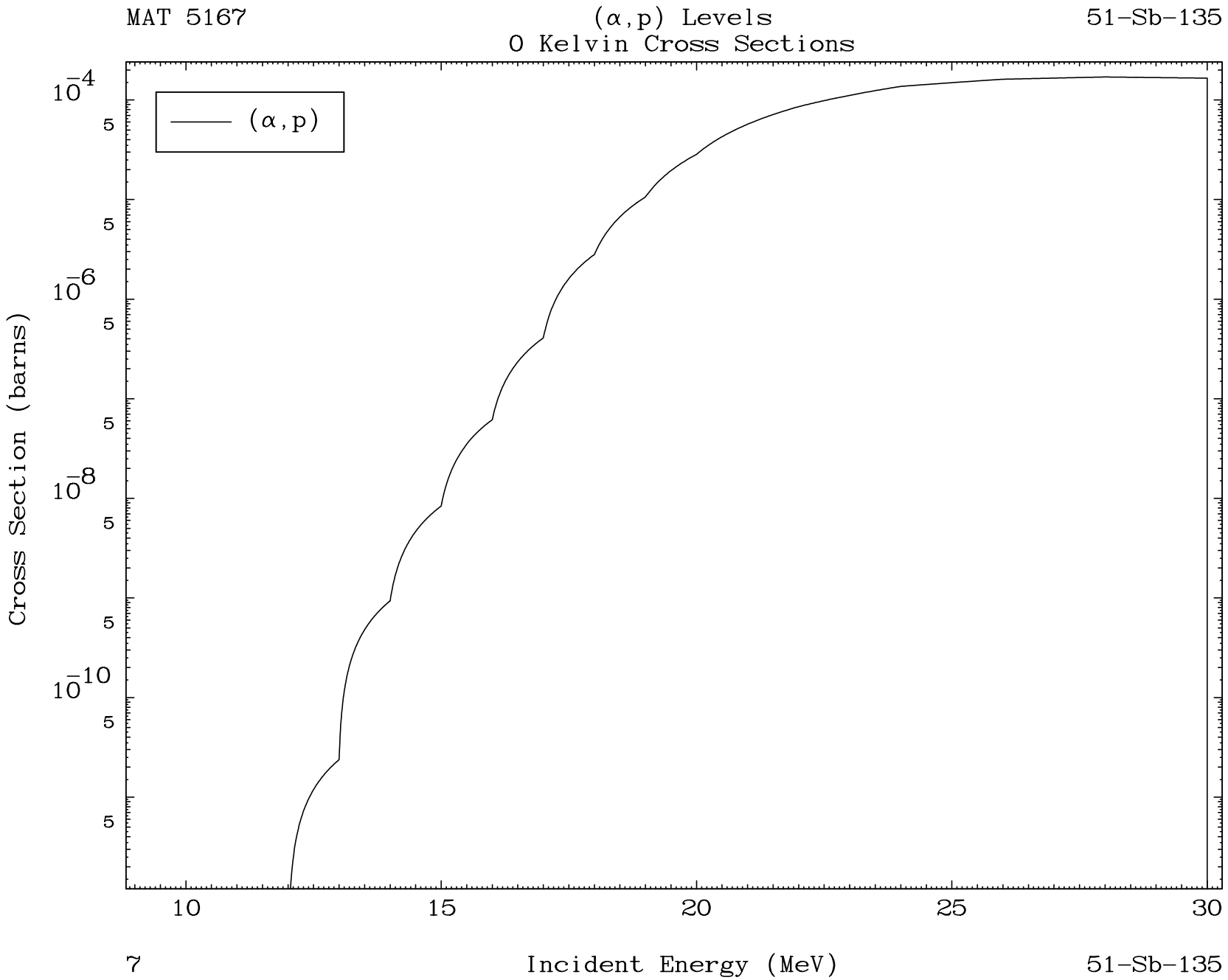

MAT 5167
α Neutron Production
0 Kelvin Cross Sections
51-Sb-135
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
Cross Section (barns)
Incident Energy (MeV)
51-Sb-135
2

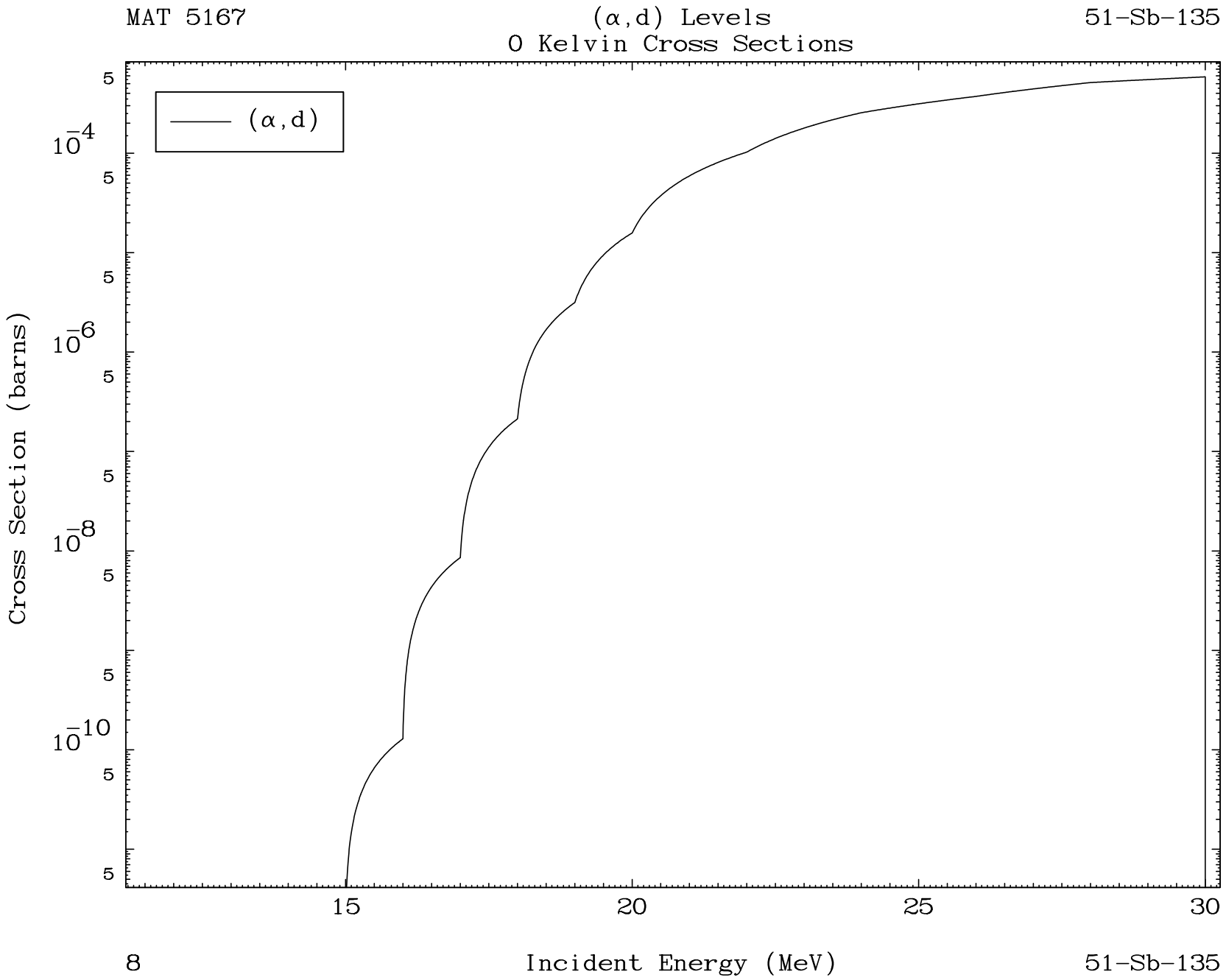

MAT 5167
α Neutron Production
0 Kelvin Cross Sections
51-Sb-135
(α,n') d
(α,n') t
(α,n') He-3
(α,4n)
(α,2n) p
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
10^-8
15
20
25
30
3
Incident Energy (MeV)
51-Sb-135

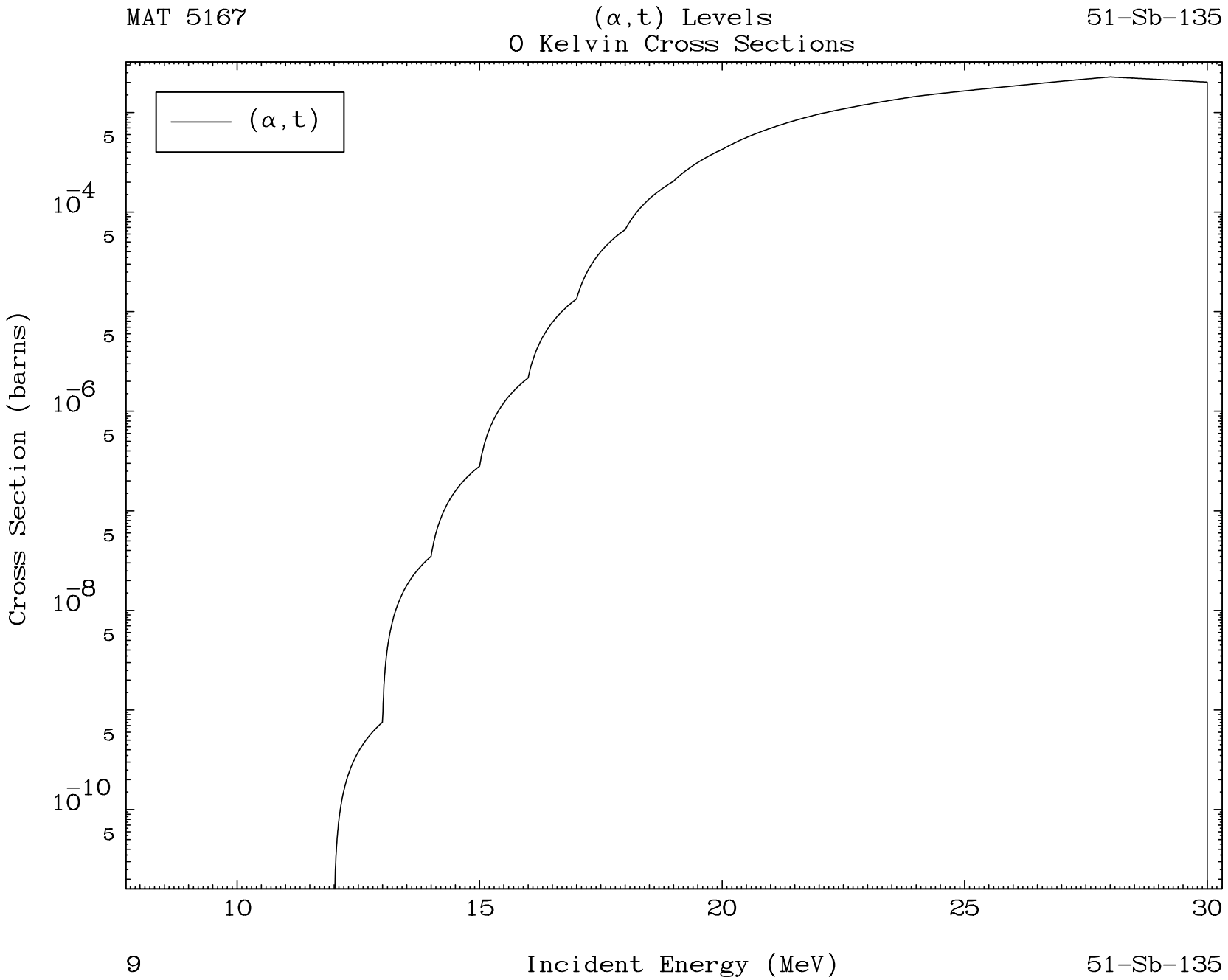

MAT 5167
α Charged Particle
0 Kelvin Cross Sections
51-Sb-135
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
(α,n') d
(α,n') t
Cross Section (barns)
Incident Energy (MeV)
51-Sb-135
4

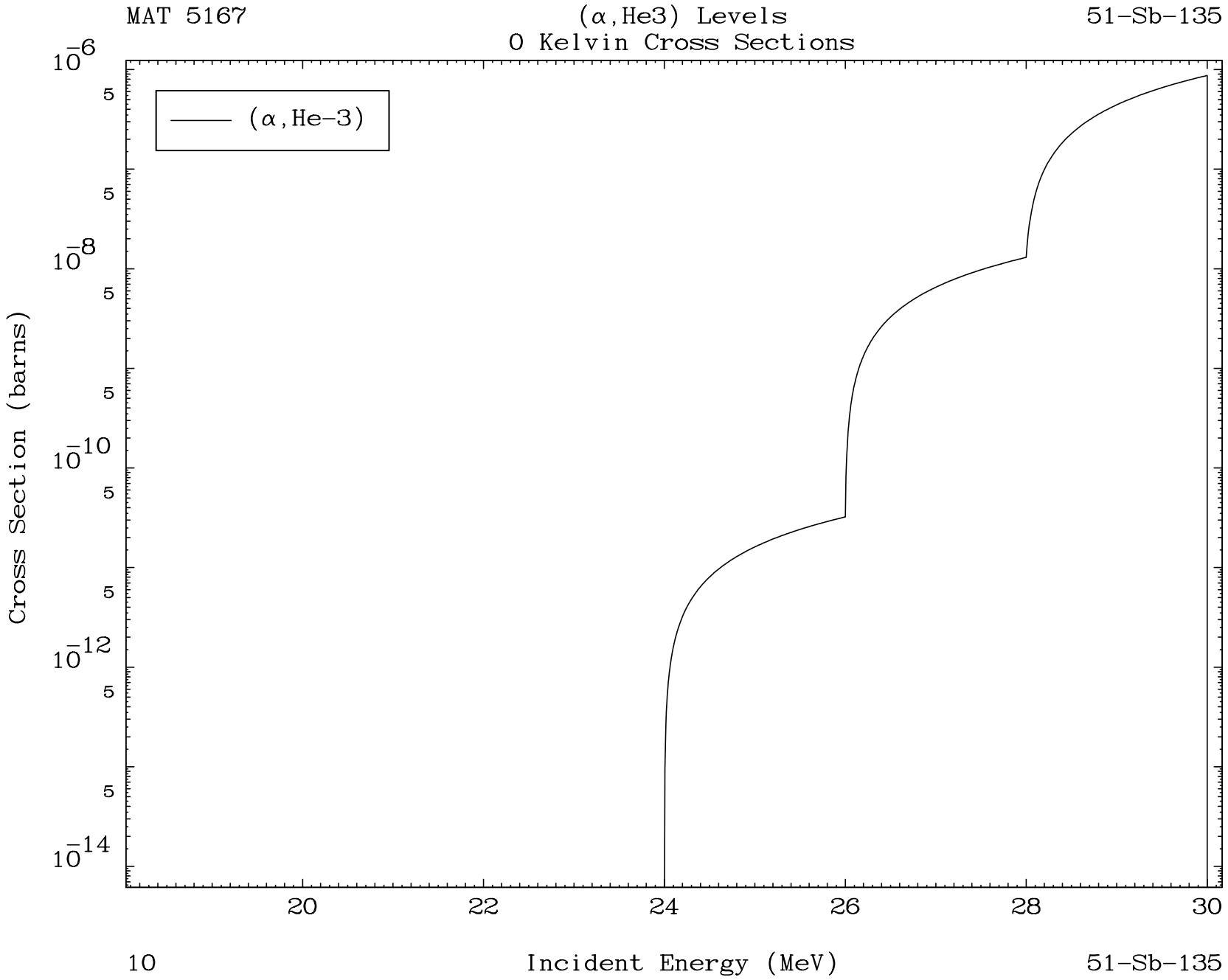

MAT 5167
α Charged Particle
0 Kelvin Cross Sections
51-Sb-135
(α,2n) p
(α,3n) p
(α,p)
(α,d)
(α,t)
(α,He-3)
(α,α)
Cross Section (barns)
Incident Energy (MeV)
51-Sb-135

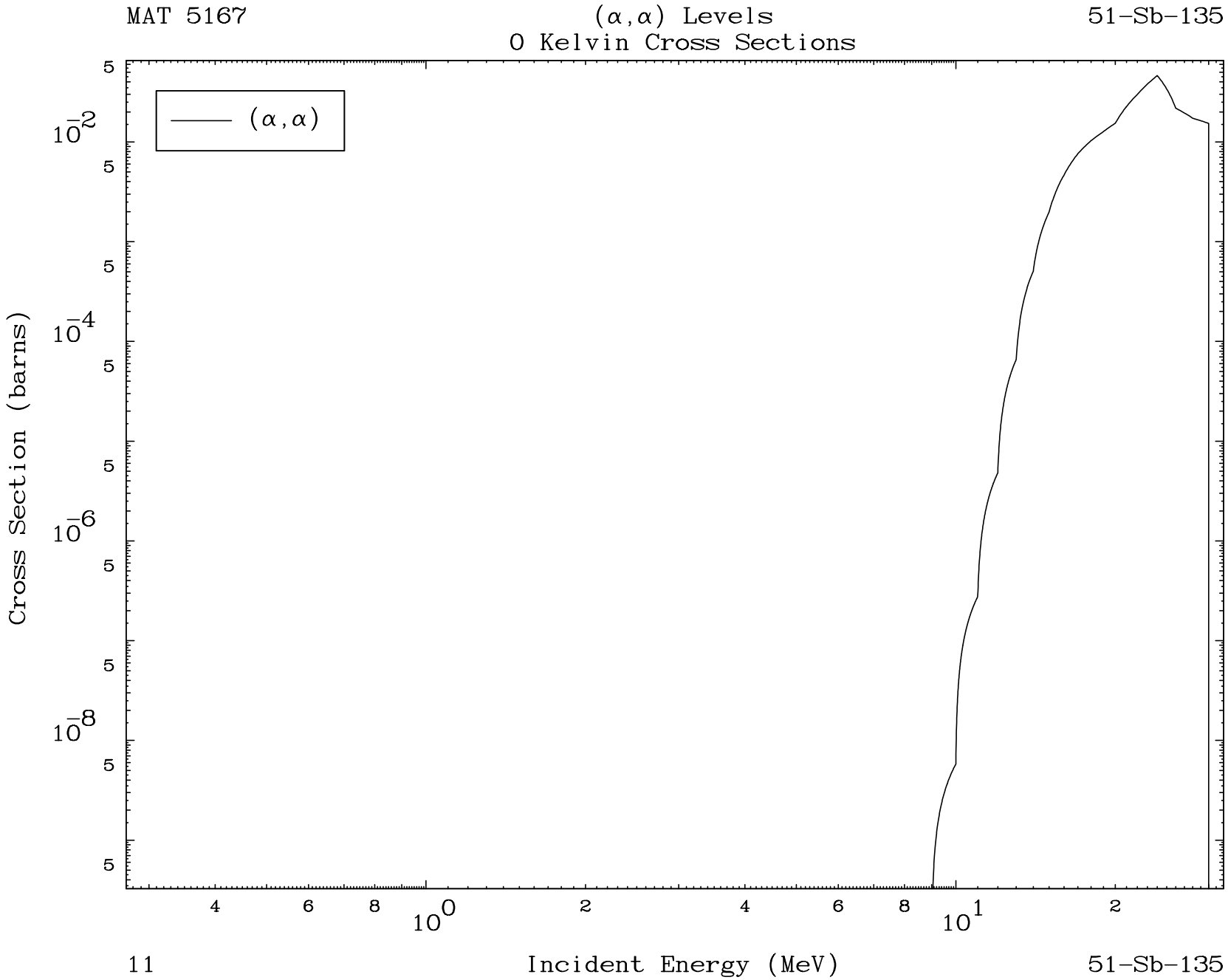

MAT 5167
(α,n') Level
51-Sb-135
0 Kelvin Cross Sections
α Inelastic
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
4
5
6
7
8
9
10^1
2
3
Incident Energy (MeV)
6
51-Sb-135

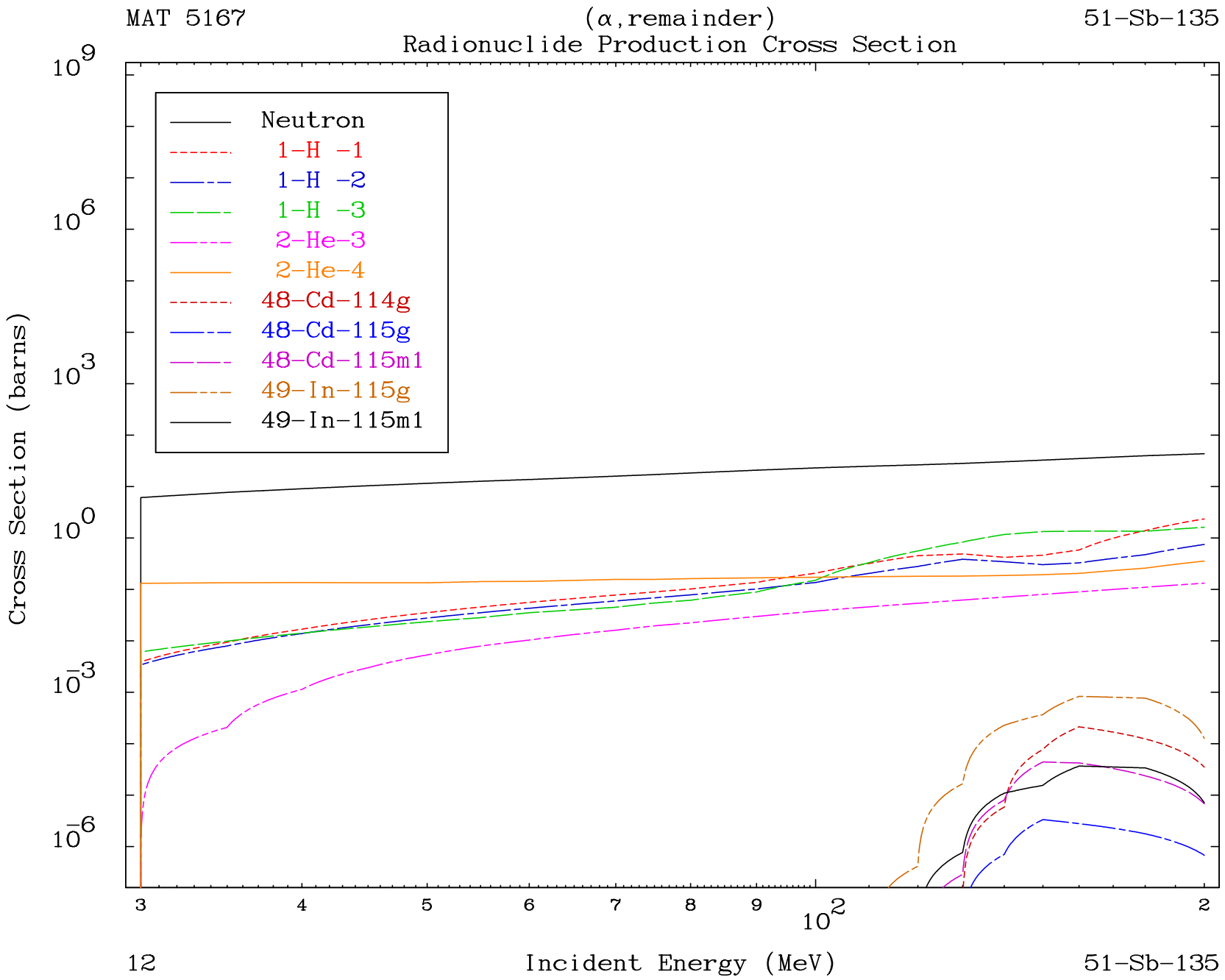

MAT 5167
(α,p) Levels
51-Sb-135
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10
15
20
25
30
Incident Energy (MeV)
7
51-Sb-135

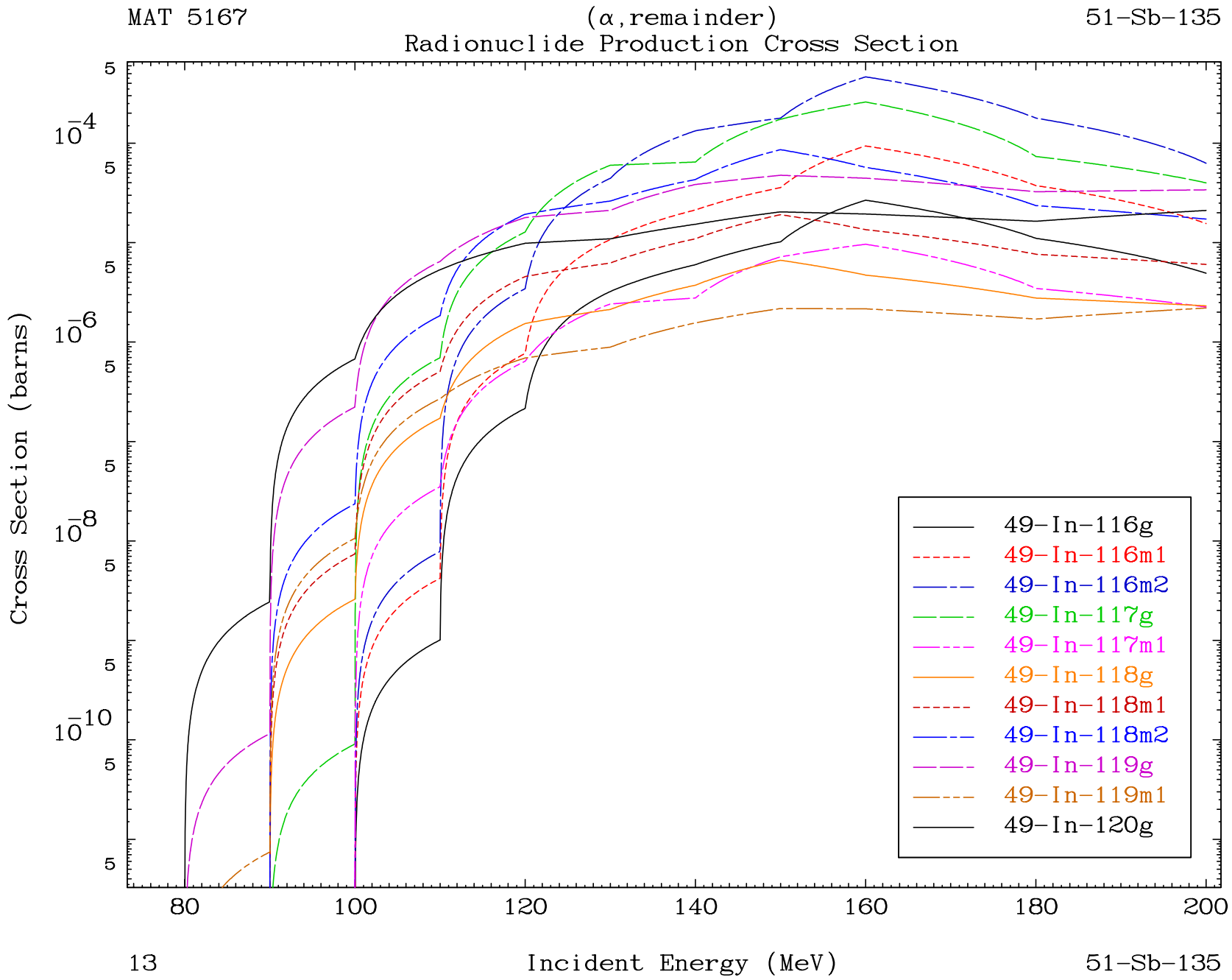

MAT 5167
(α,d) Levels
51-Sb-135
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10-4
10-6
10-8
10-10
15
20
25
30
Incident Energy (MeV)
8
51-Sb-135


MAT 5167
(α,t) Levels
51-Sb-135
0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
10
15
20
25
30
9
Incident Energy (MeV)
51-Sb-135

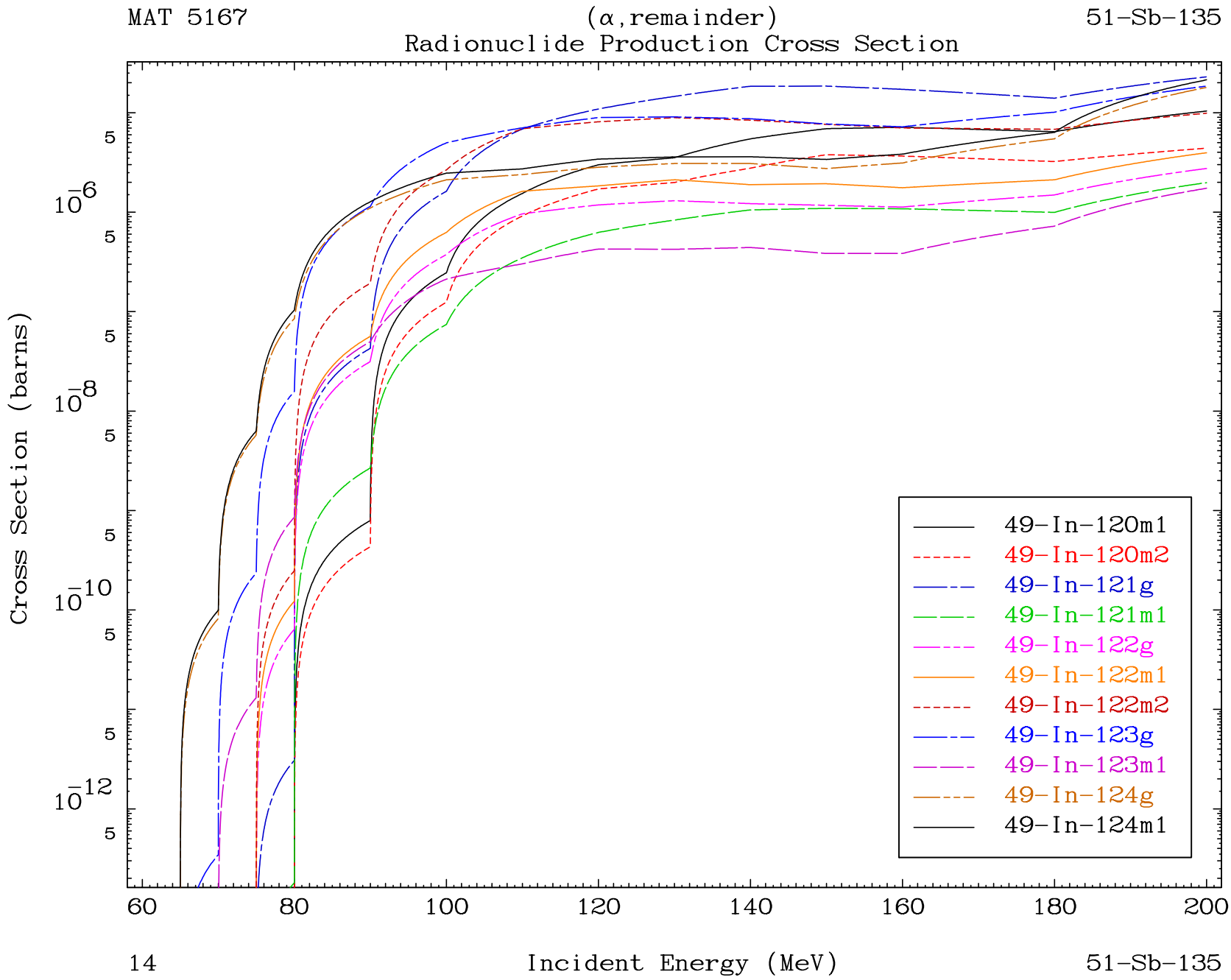

MAT 5167
(α,He3) Levels
51-Sb-135
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10^-6
5
10^-8
5
10^-10
5
10^-12
5
10^-14
20
22
24
26
28
30
10
Incident Energy (MeV)
51-Sb-135

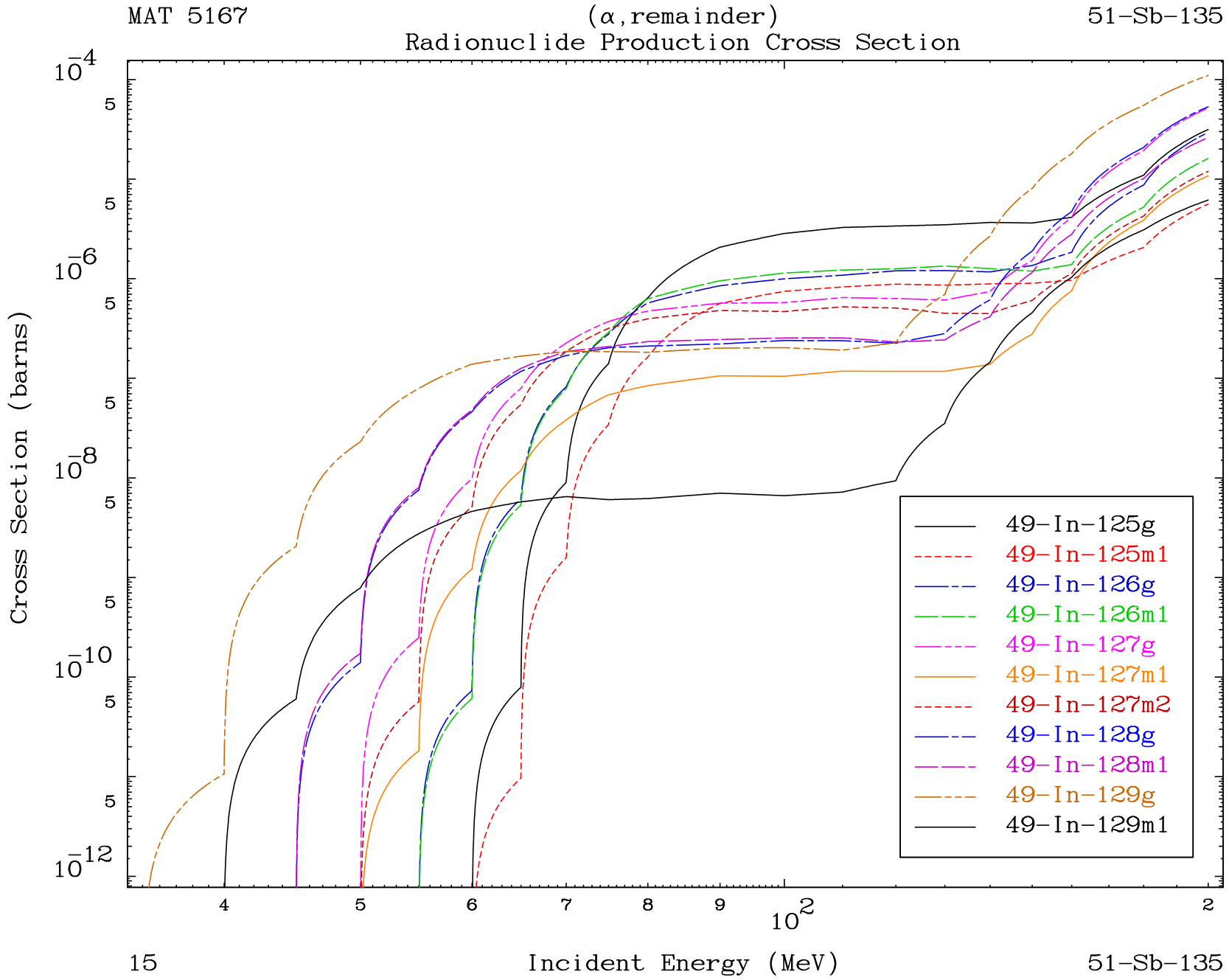

MAT 5167
(α,α) Levels
51-Sb-135
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10-2
10-4
10-6
10-8
100
101
Incident Energy (MeV)
11
51-Sb-135

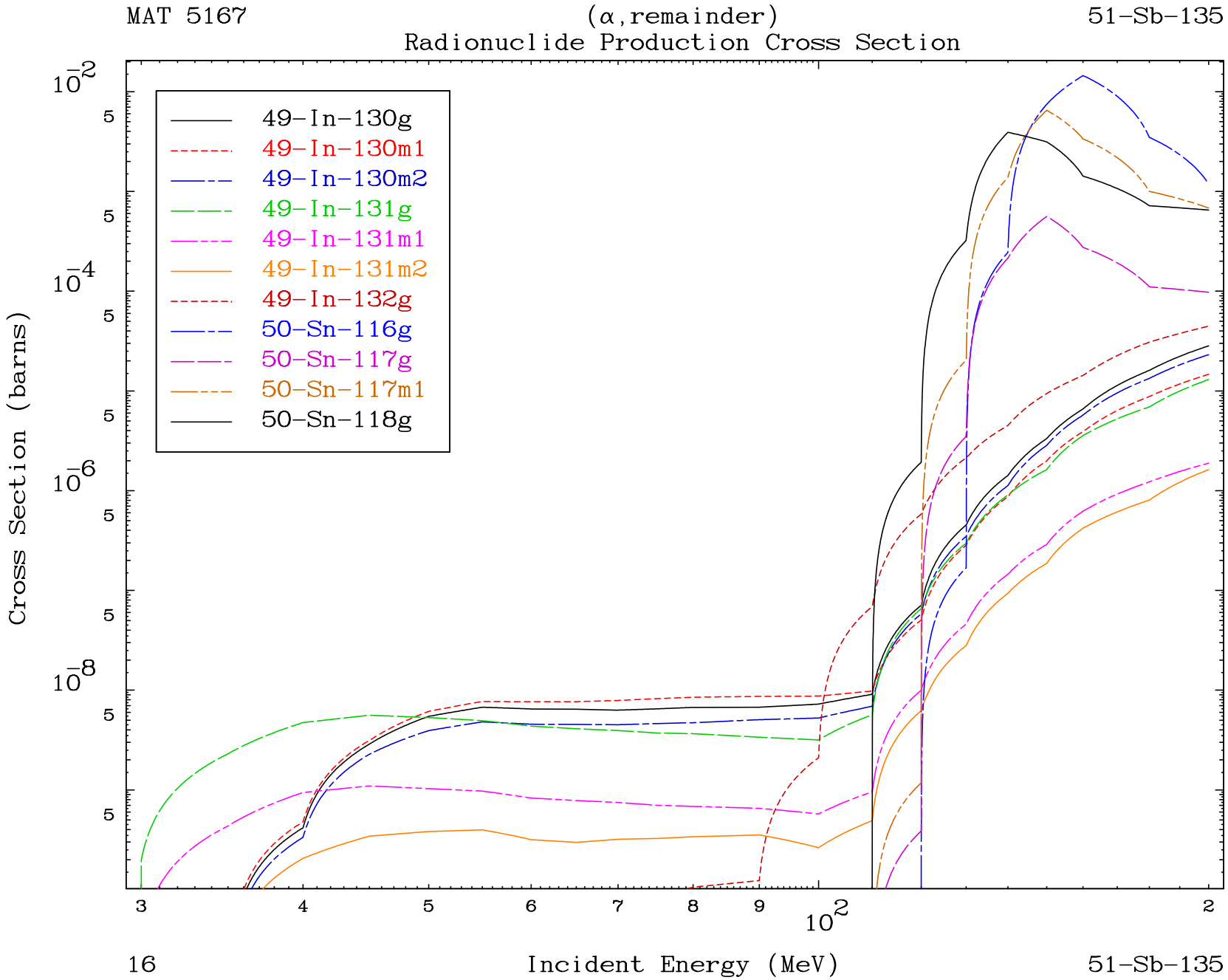

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Neutron
1-H -1
1-H -2
1-H -3
2-He-3
2-He-4
48-Cd-114g
48-Cd-115g
48-Cd-115m1
49-In-115g
49-In-115m1
Cross Section (barns)
10^9
10^6
10^3
10^0
10^-3
10^-6
3
4
5
6
7
8
9
10^2
2
12
Incident Energy (MeV)
51-Sb-135

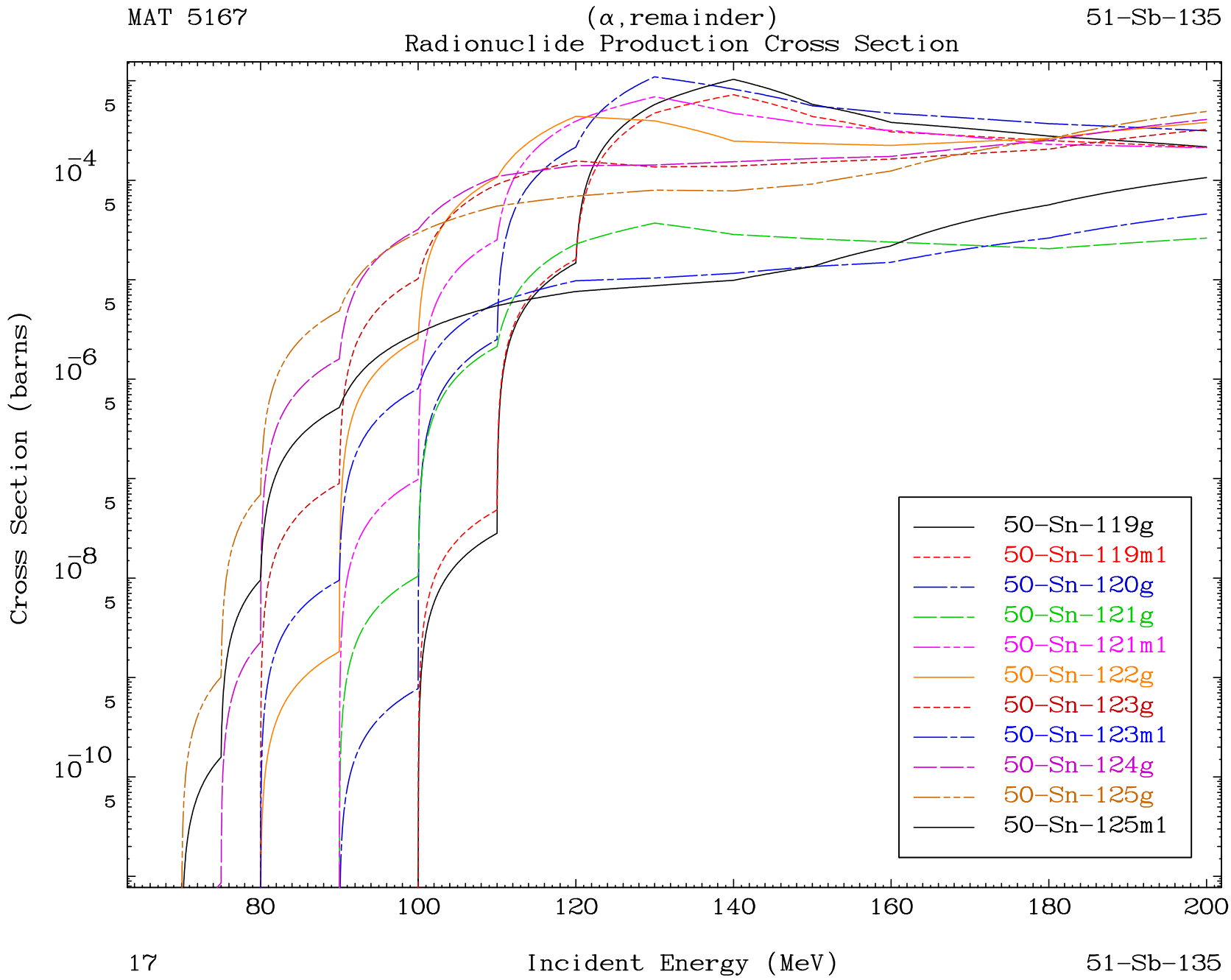

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
80
100
120
140
160
180
200
Incident Energy (MeV)
49-In-116g
49-In-116m1
49-In-116m2
49-In-117g
49-In-117m1
49-In-118g
49-In-118m1
49-In-118m2
49-In-119g
49-In-119m1
49-In-120g

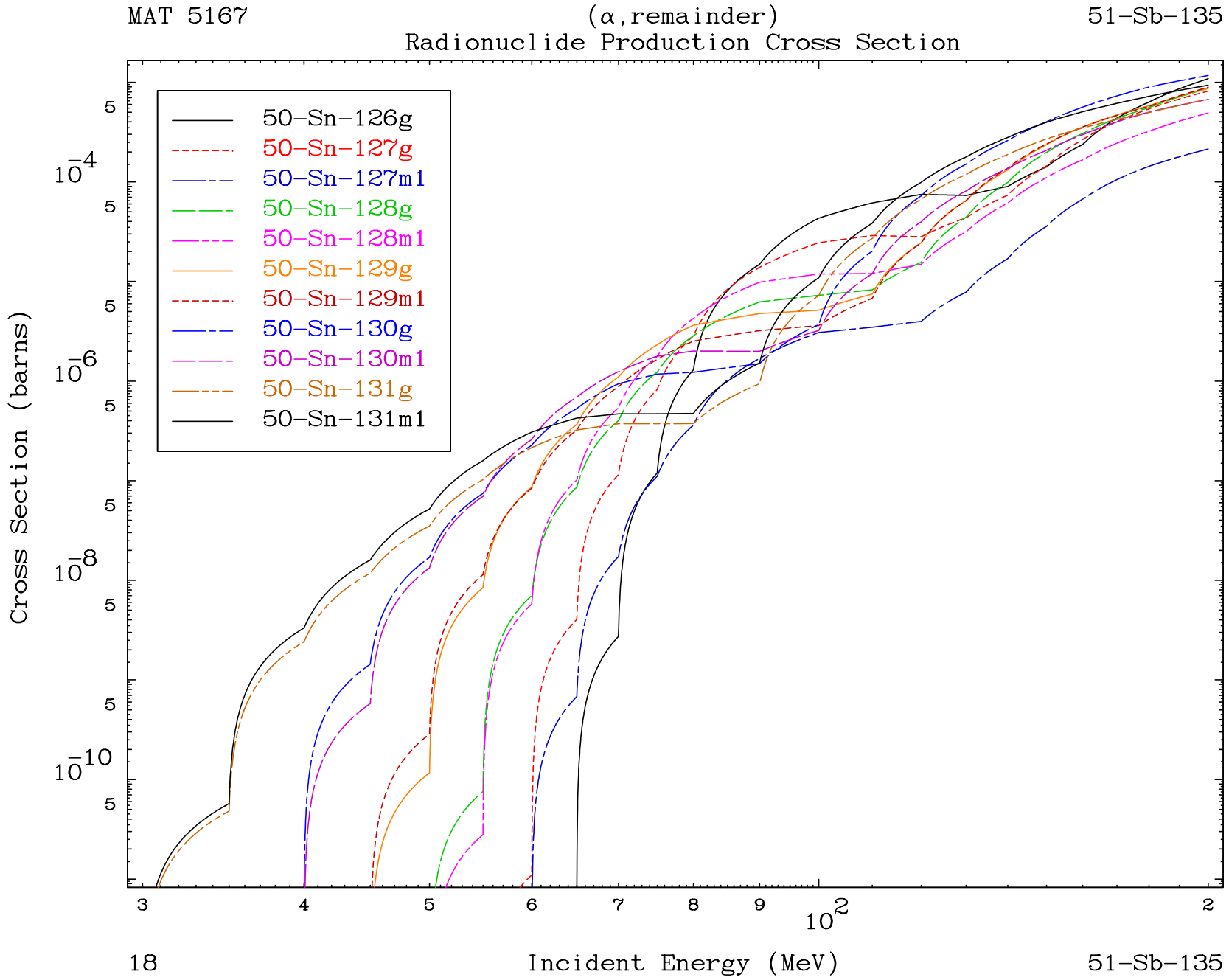
51-Sb-135

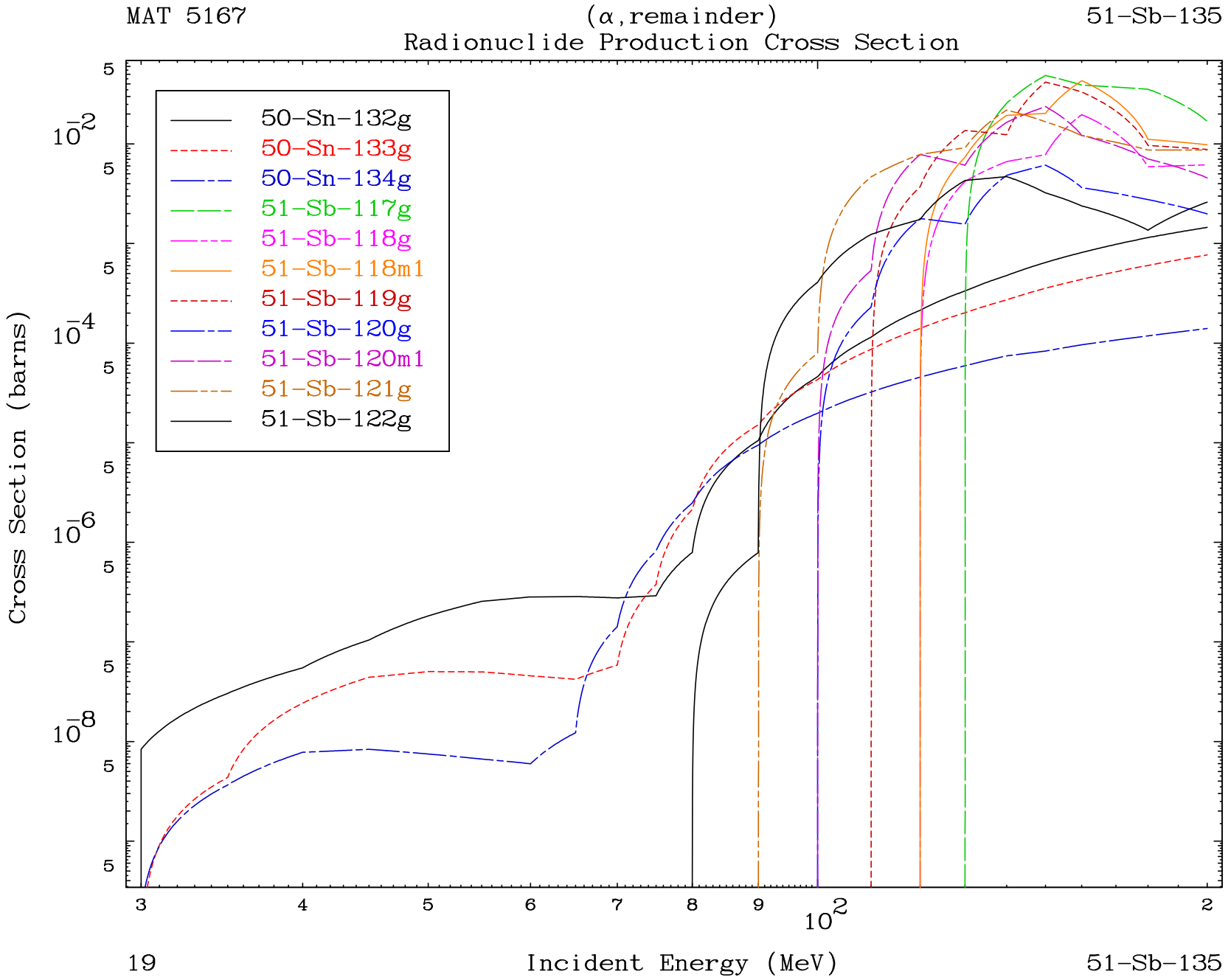

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
10-6
10-8
10-10
10-12
5
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
51-Sb-135
49-In-120m1
49-In-120m2
49-In-121g
49-In-121m1
49-In-122g
49-In-122m1
49-In-122m2
49-In-123g
49-In-123m1
49-In-124g
49-In-124m1

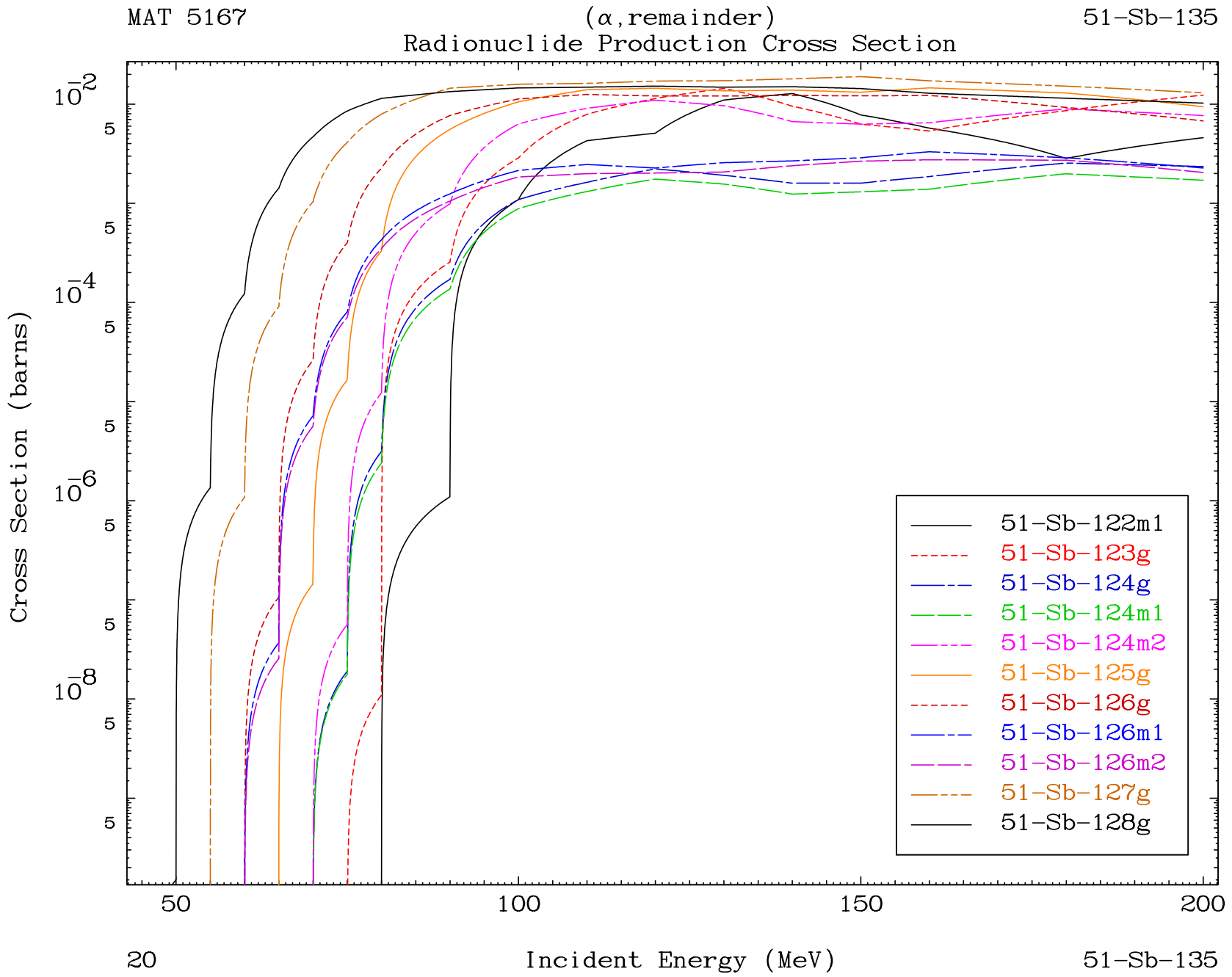

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
15
51-Sb-135
49-In-125g
49-In-125m1
49-In-126g
49-In-126m1
49-In-127g
49-In-127m1
49-In-127m2
49-In-128g
49-In-128m1
49-In-129g
49-In-129m1

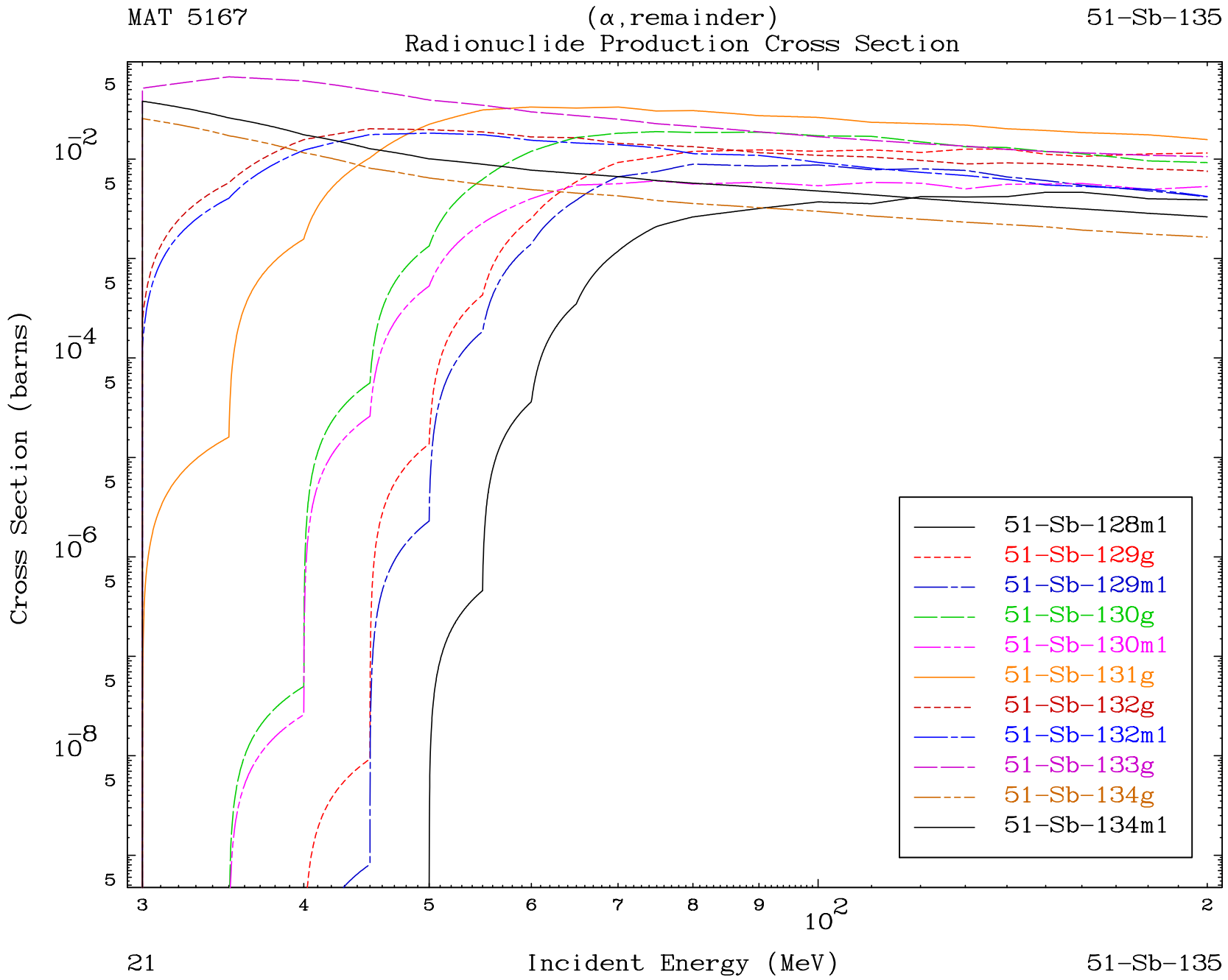

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
49-In-130g
49-In-130m1
49-In-130m2
49-In-131g
49-In-131m1
49-In-131m2
49-In-132g
50-Sn-116g
50-Sn-117g
50-Sn-117m1
50-Sn-118g
Cross Section (barns)
Incident Energy (MeV)
16
51-Sb-135

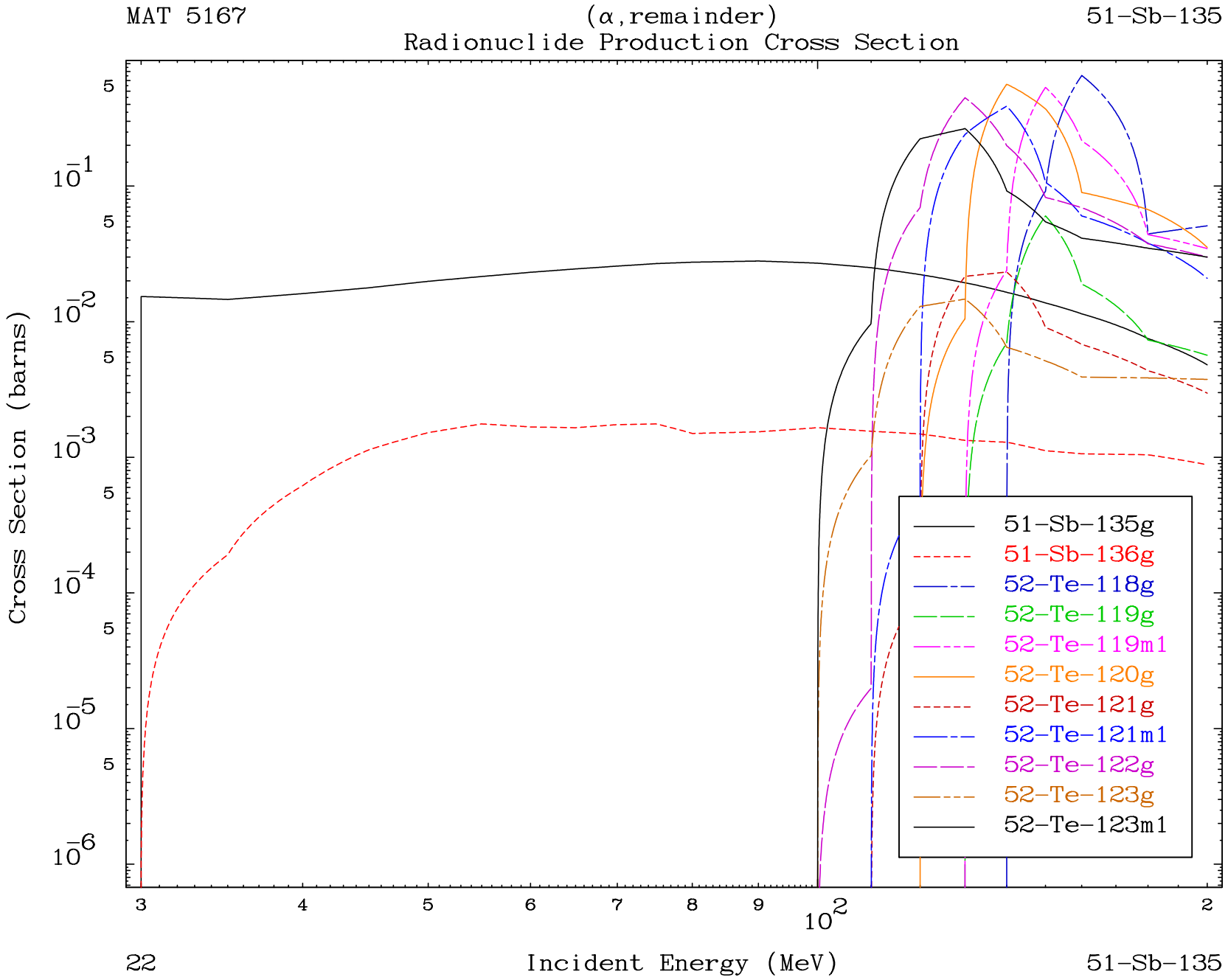

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
10-4
10-6
10-8
10-10
80
100
120
140
160
180
200
Incident Energy (MeV)
50-Sn-119g
50-Sn-119m1
50-Sn-120g
50-Sn-121g
50-Sn-121m1
50-Sn-122g
50-Sn-123g
50-Sn-123m1
50-Sn-124g
50-Sn-125g
50-Sn-125m1

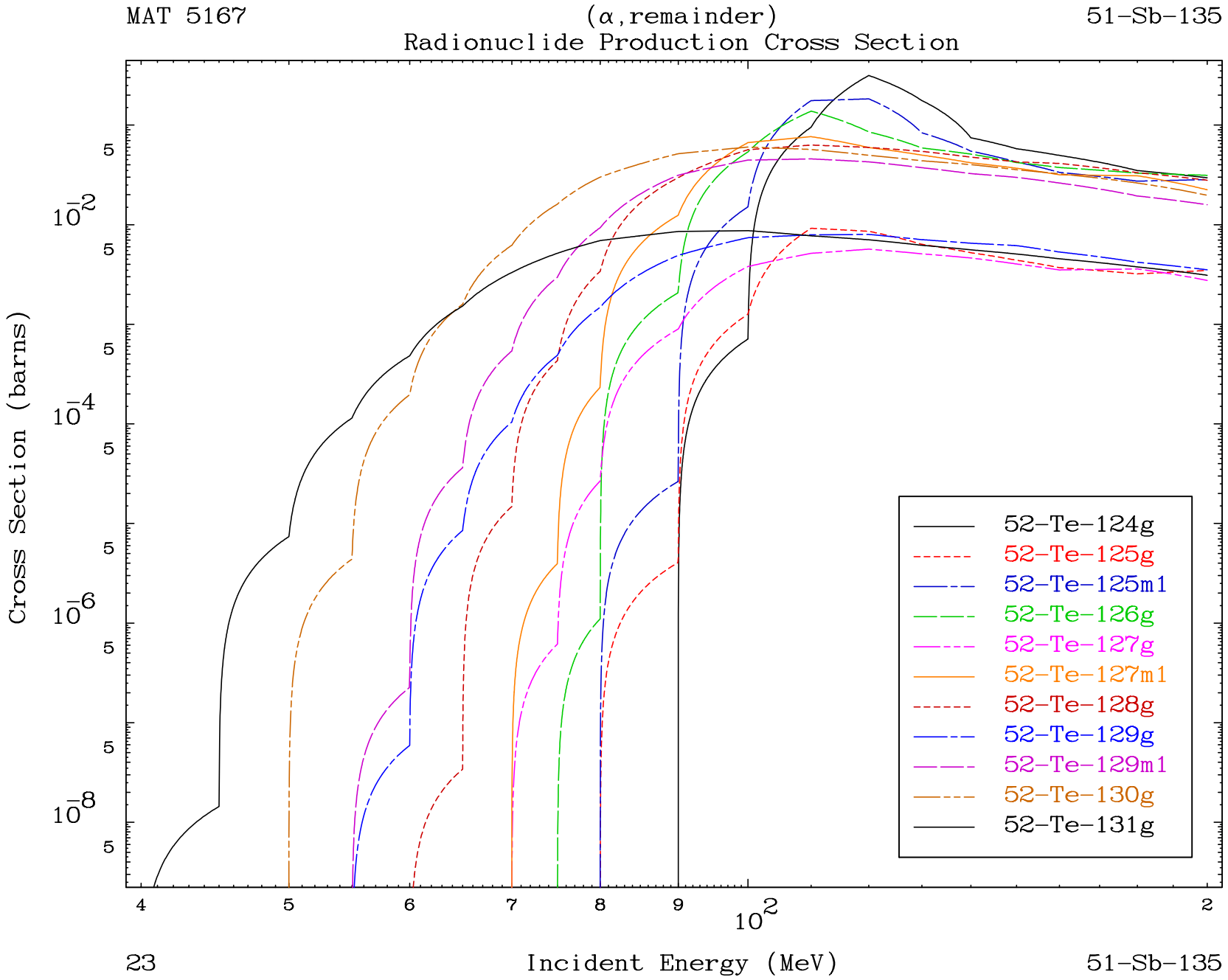

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
50-Sn-126g
50-Sn-127g
50-Sn-127m1
50-Sn-128g
50-Sn-128m1
50-Sn-129g
50-Sn-129m1
50-Sn-130g
50-Sn-130m1
50-Sn-131g
50-Sn-131m1
Cross Section (barns)
10-4
10-6
10-8
10-10
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
51-Sb-135


MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
50-Sn-132g
50-Sn-133g
50-Sn-134g
51-Sb-117g
51-Sb-118g
51-Sb-118m1
51-Sb-119g
51-Sb-120g
51-Sb-120m1
51-Sb-121g
51-Sb-122g
Cross Section (barns)
Incident Energy (MeV)
19
51-Sb-135

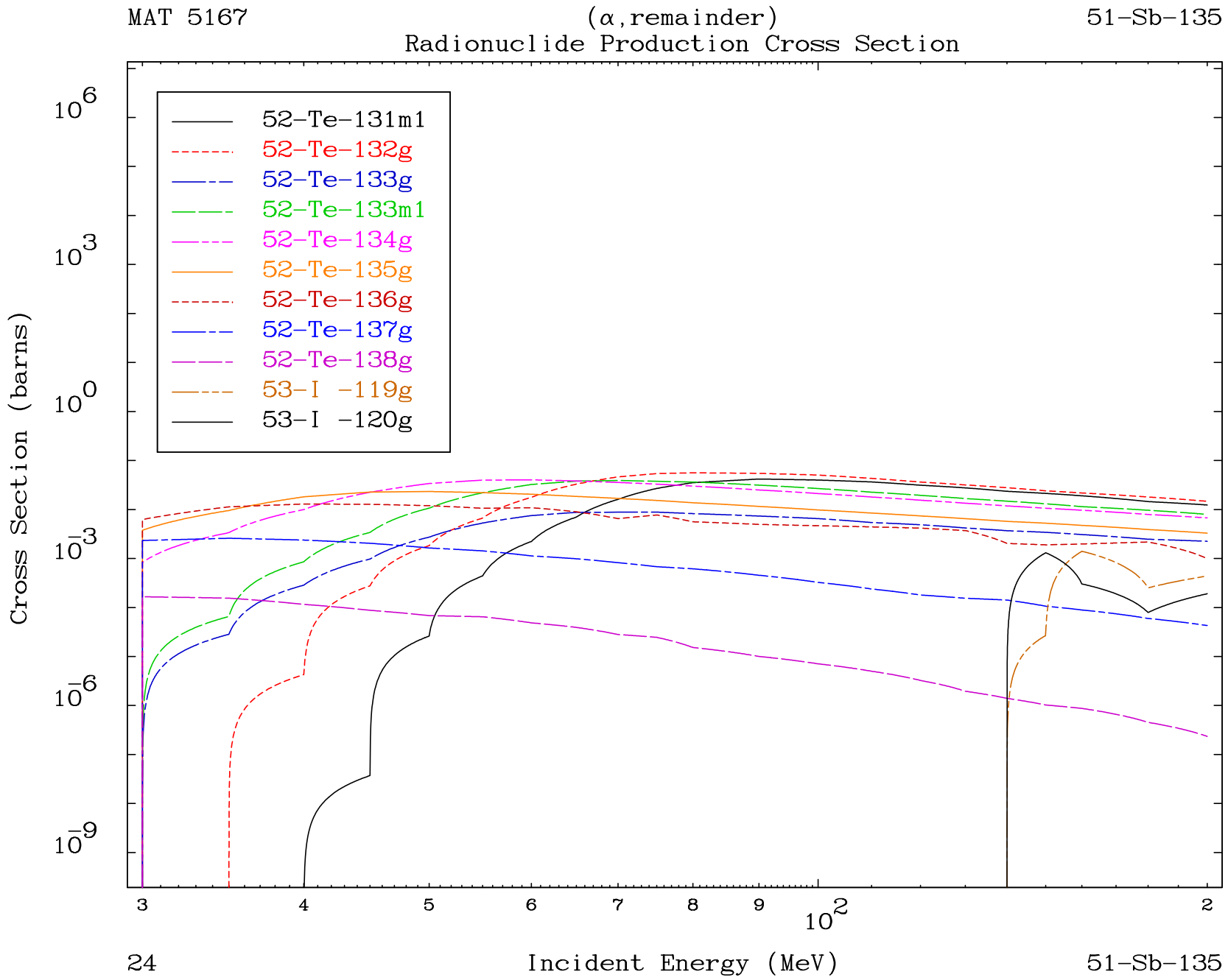

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
50
100
150
200
20
Incident Energy (MeV)
51-Sb-135
51-Sb-122m1
51-Sb-123g
51-Sb-124g
51-Sb-124m1
51-Sb-124m2
51-Sb-125g
51-Sb-126g
51-Sb-126m1
51-Sb-126m2
51-Sb-127g
51-Sb-128g

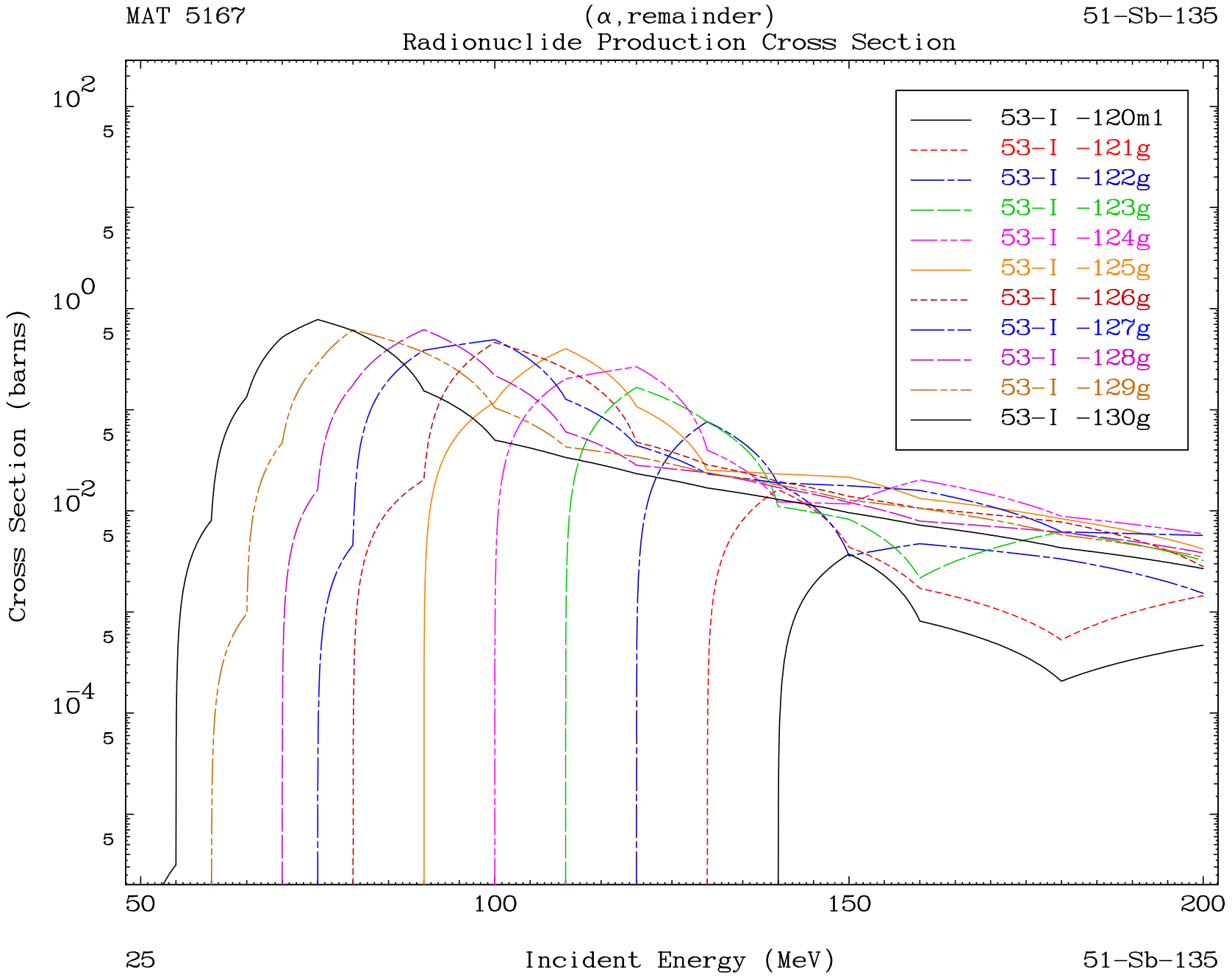

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
51-Sb-128m1
51-Sb-129g
51-Sb-129m1
51-Sb-130g
51-Sb-130m1
51-Sb-131g
51-Sb-132g
51-Sb-132m1
51-Sb-133g
51-Sb-134g
51-Sb-134m1

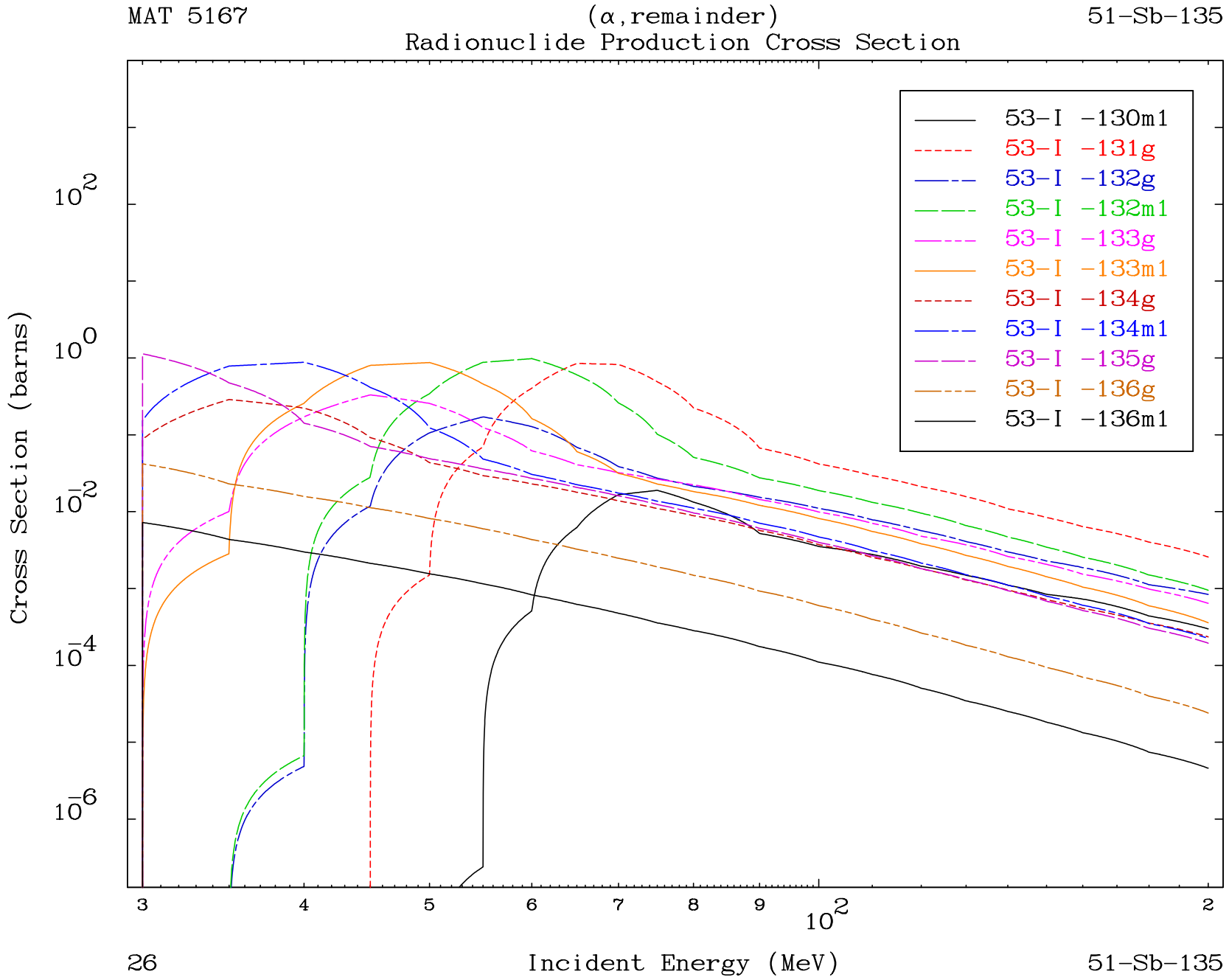

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
22
51-Sb-135
51-Sb-135g
51-Sb-136g
52-Te-118g
52-Te-119g
52-Te-119m1
52-Te-120g
52-Te-121g
52-Te-121m1
52-Te-122g
52-Te-123g
52-Te-123m1

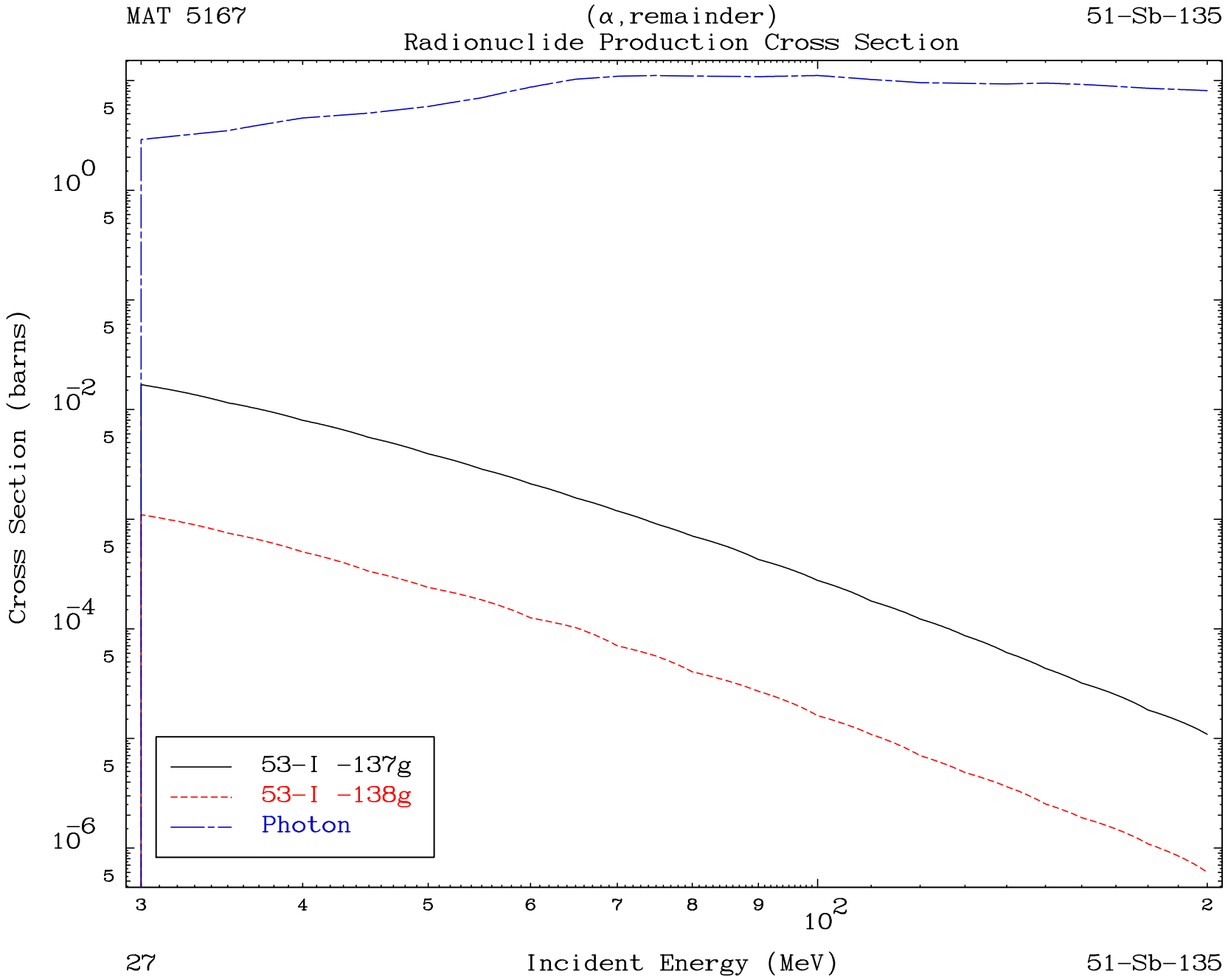

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
52-Te-124g
52-Te-125g
52-Te-125m1
52-Te-126g
52-Te-127g
52-Te-127m1
52-Te-128g
52-Te-129g
52-Te-129m1
52-Te-130g
52-Te-131g

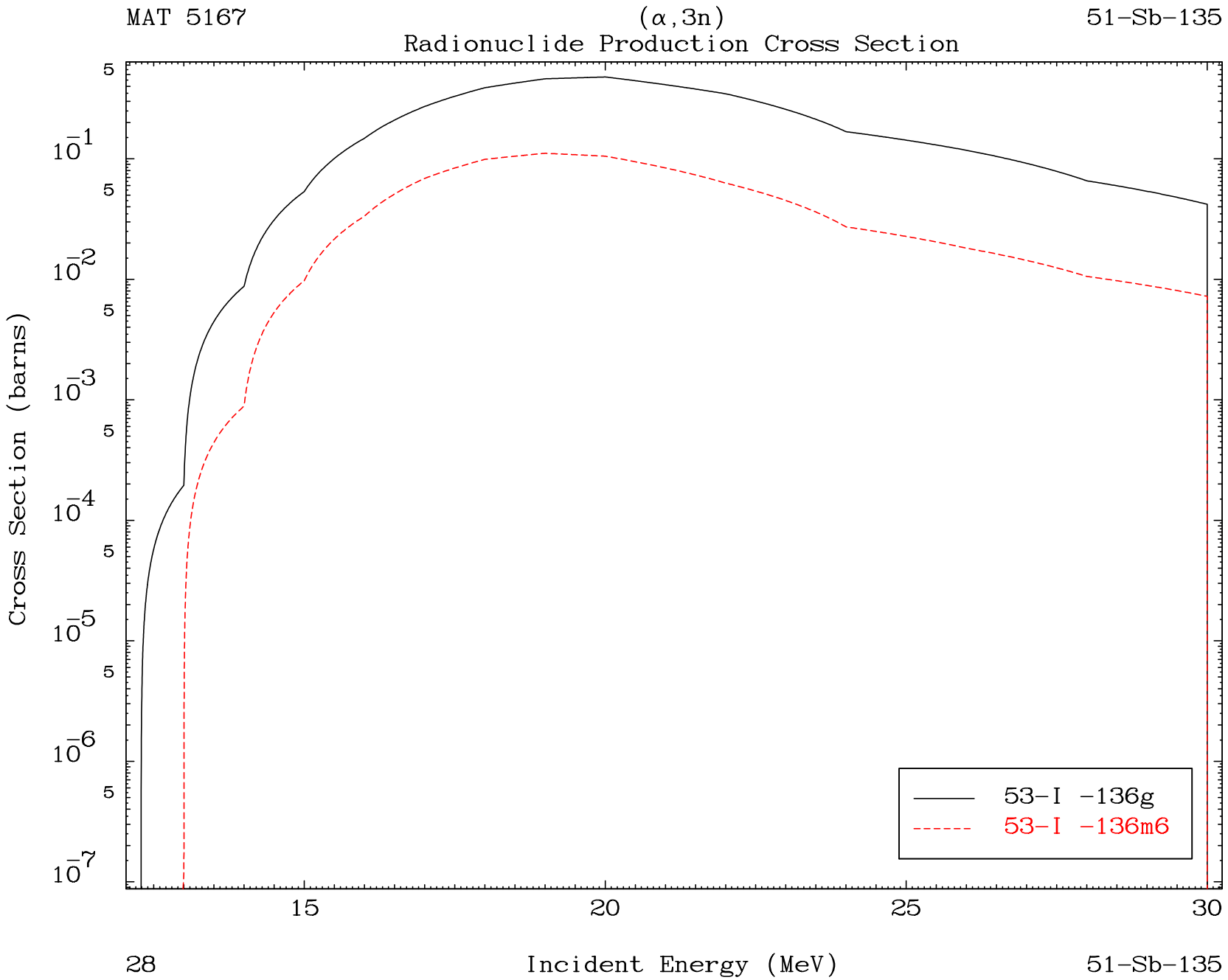
51-Sb-135

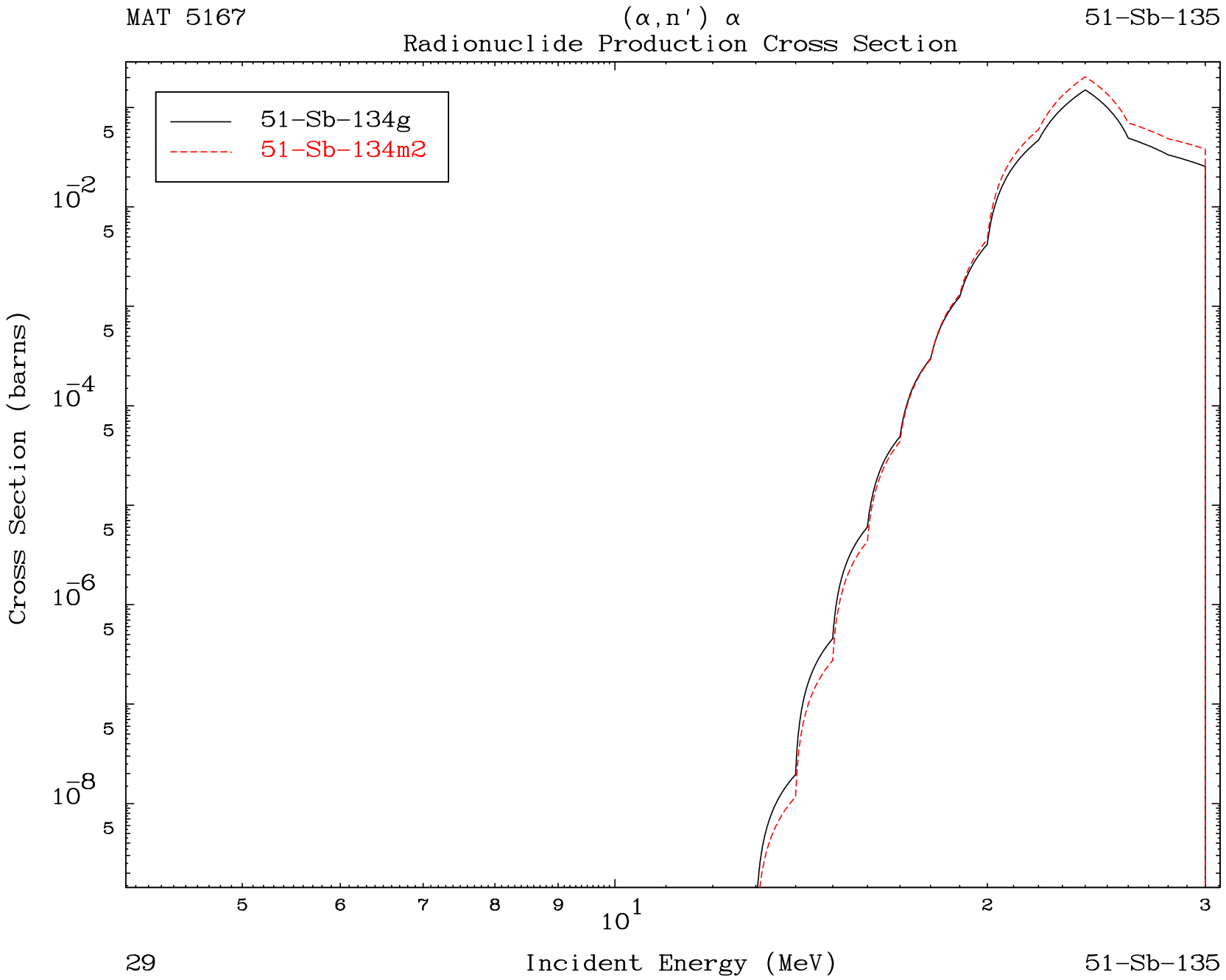

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
52-Te-131m1
52-Te-132g
52-Te-133g
52-Te-133m1
52-Te-134g
52-Te-135g
52-Te-136g
52-Te-137g
52-Te-138g
53-I -119g
53-I -120g
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-9
3
4
5
6
7
8
9
10^2
2
24
Incident Energy (MeV)
51-Sb-135

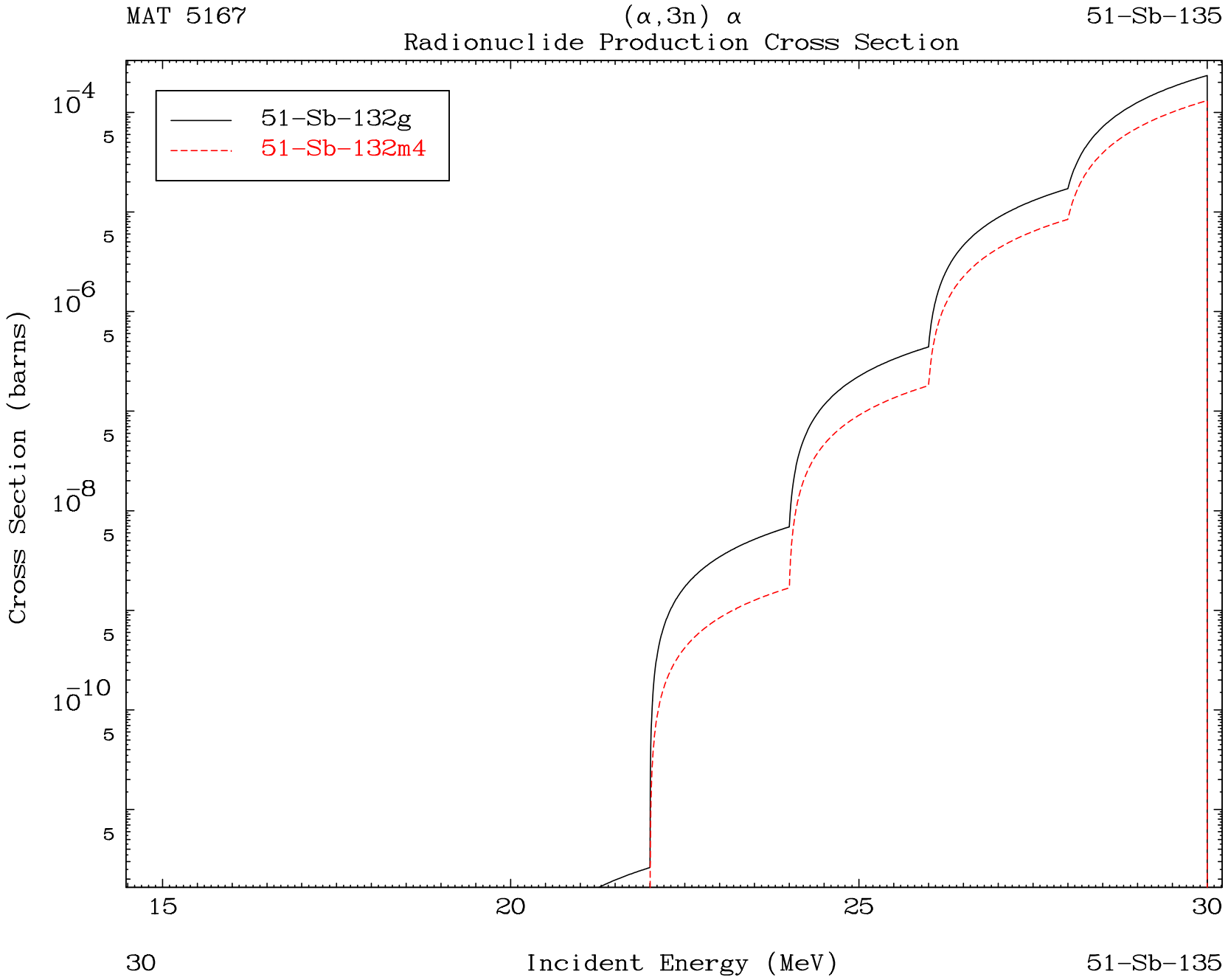

MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
10^2
10^0
10^-2
10^-4
5
50
100
150
200
25
Incident Energy (MeV)
51-Sb-135
53-I -120m1
53-I -121g
53-I -122g
53-I -123g
53-I -124g
53-I -125g
53-I -126g
53-I -127g
53-I -128g
53-I -129g
53-I -130g


MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
53-I -130m1
53-I -131g
53-I -132g
53-I -132m1
53-I -133g
53-I -133m1
53-I -134g
53-I -134m1
53-I -135g
53-I -136g
53-I -136m1
Cross Section (barns)
10^2
10^0
10^-2
10^-4
10^-6
3
4
5
6
7
8
9
10^2
2
26
Incident Energy (MeV)
51-Sb-135


MAT 5167
(α,remainder)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
5
3
4
5
6
7
8
9
10^2
2
53-I -137g
53-I -138g
Photon
27
Incident Energy (MeV)
51-Sb-135


MAT 5167
(α,3n)
51-Sb-135
Radionuclide Production Cross Section
Cross Section (barns)
10-1
10-2
10-3
10-4
10-5
10-6
10-7
15
20
25
30
28
Incident Energy (MeV)
51-Sb-135
53-I -136g
53-I -136m6


MAT 5167
(α,n') α
51-Sb-135
Radionuclide Production Cross Section
51-Sb-134g
51-Sb-134m2
Cross Section (barns)
10-2
10-4
10-6
10-8
5
6
7
8
9
101
2
3
29
Incident Energy (MeV)
51-Sb-135


MAT 5167
(α,3n) α
51-Sb-135
Radionuclide Production Cross Section
51-Sb-132g
51-Sb-132m4
Cross Section (barns)
10-4
10-6
10-8
10-10
5
15
20
25
30
Incident Energy (MeV)
51-Sb-135