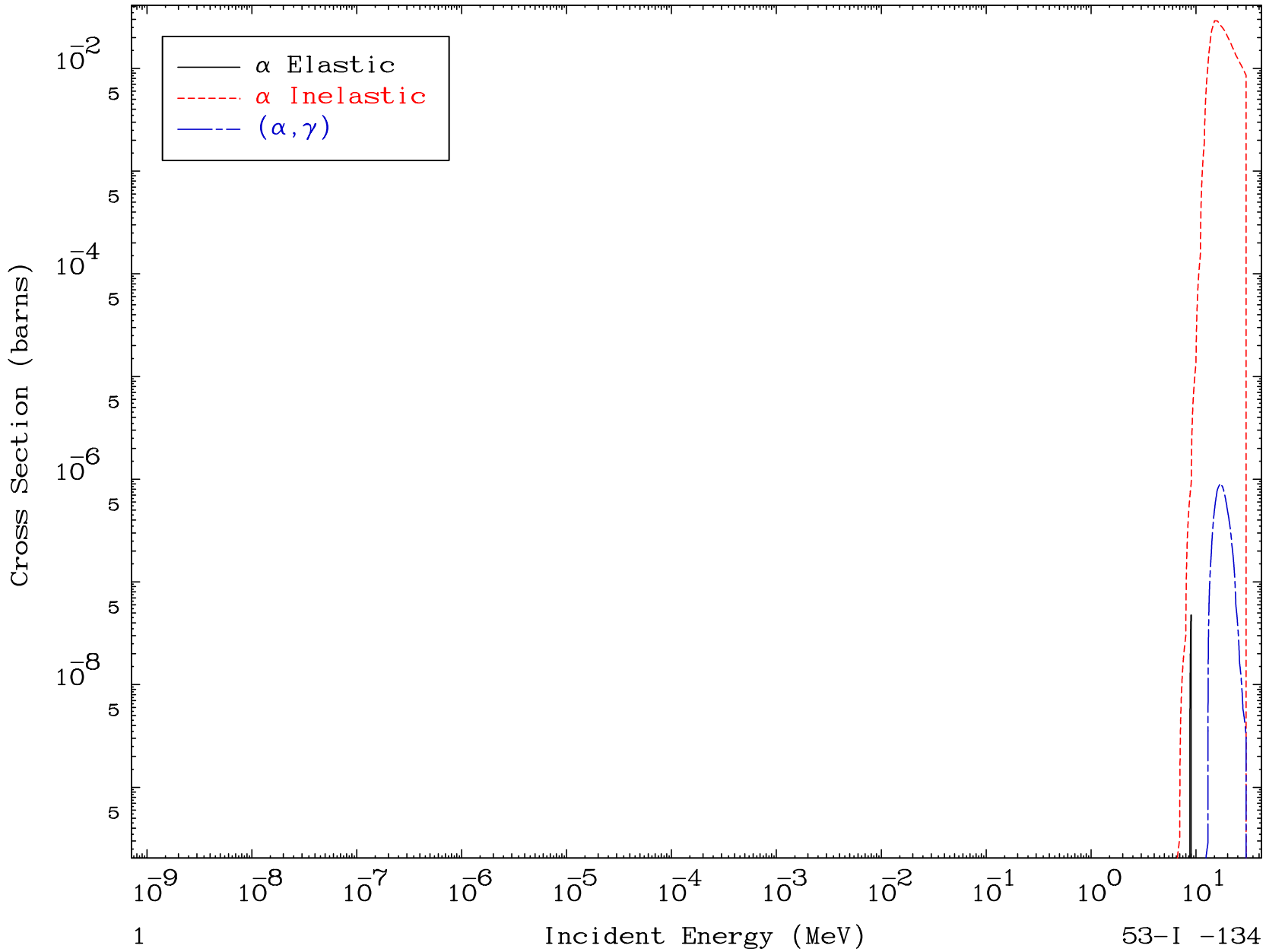
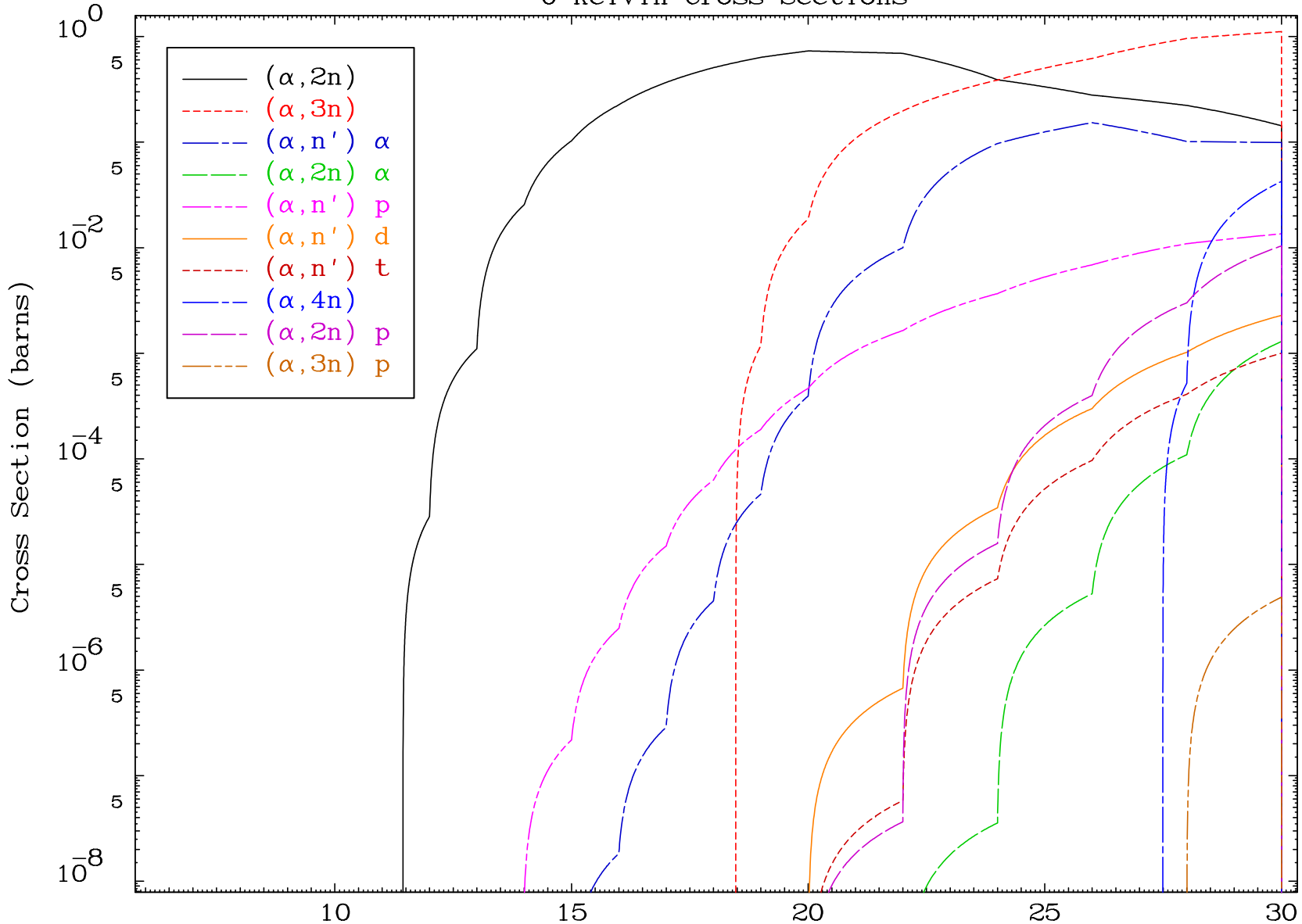
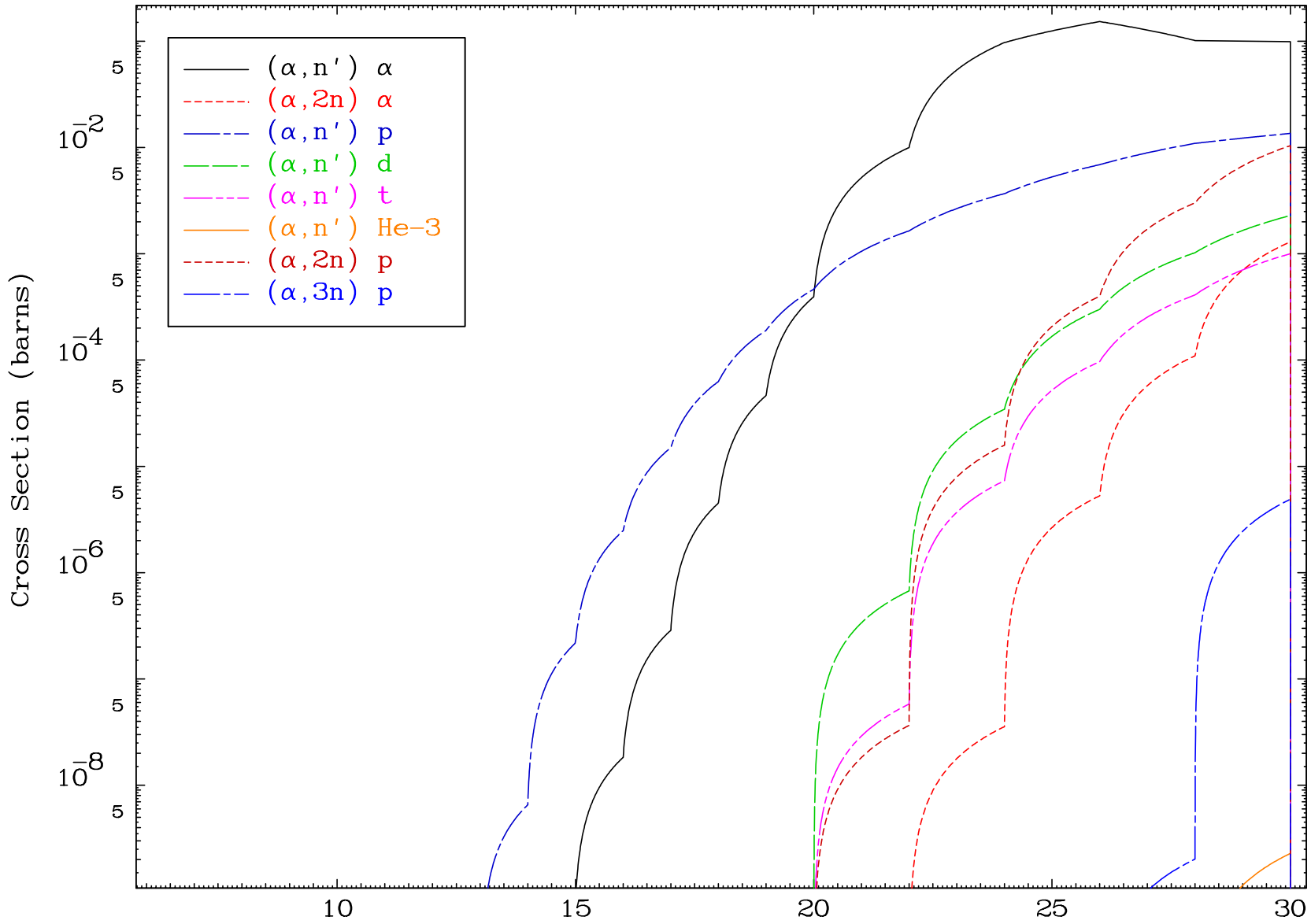
0 Kelvin Cross Sections



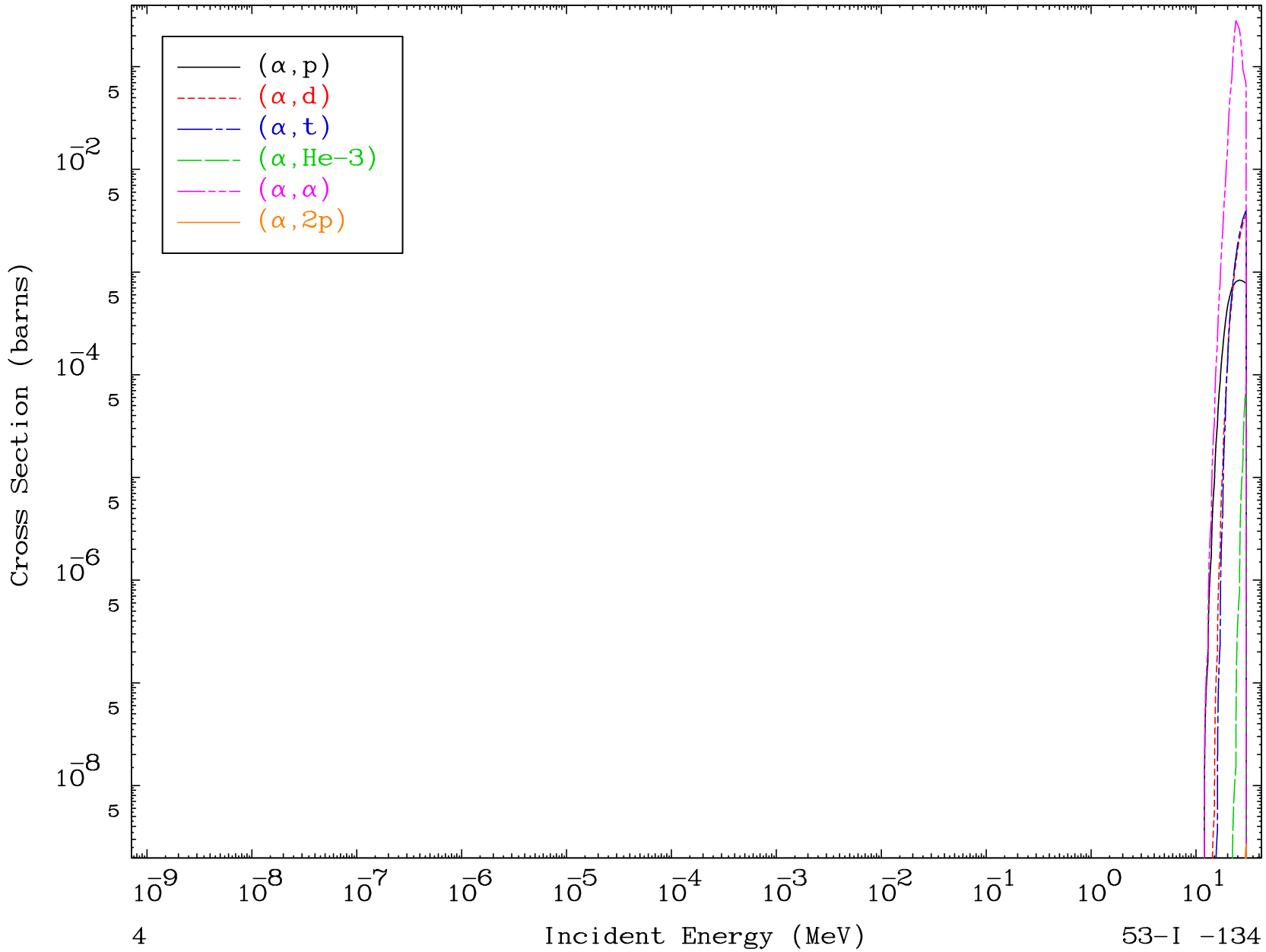
α Neutron Production
0 Kelvin Cross Sections



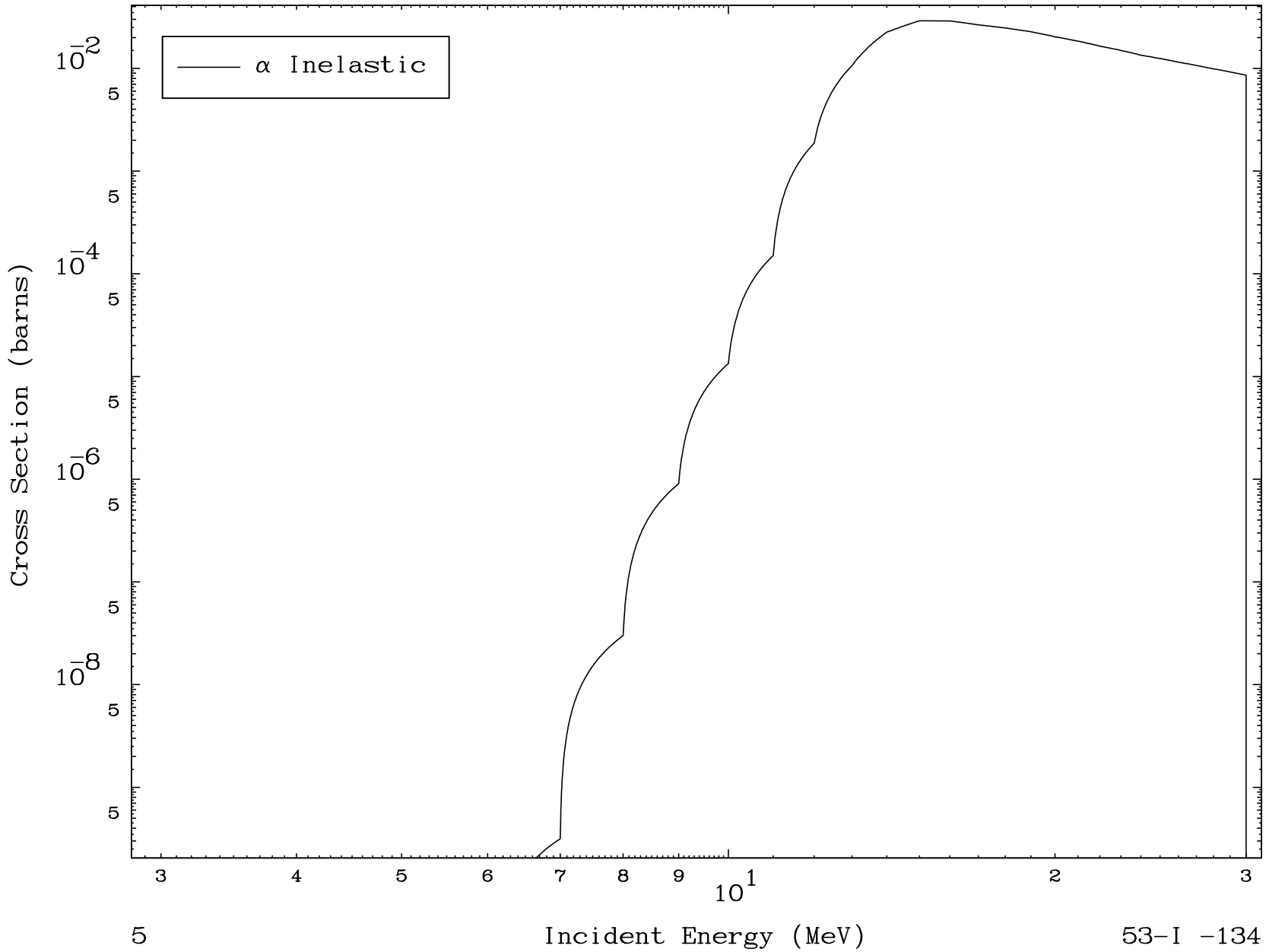
0 Kelvin Cross Sections



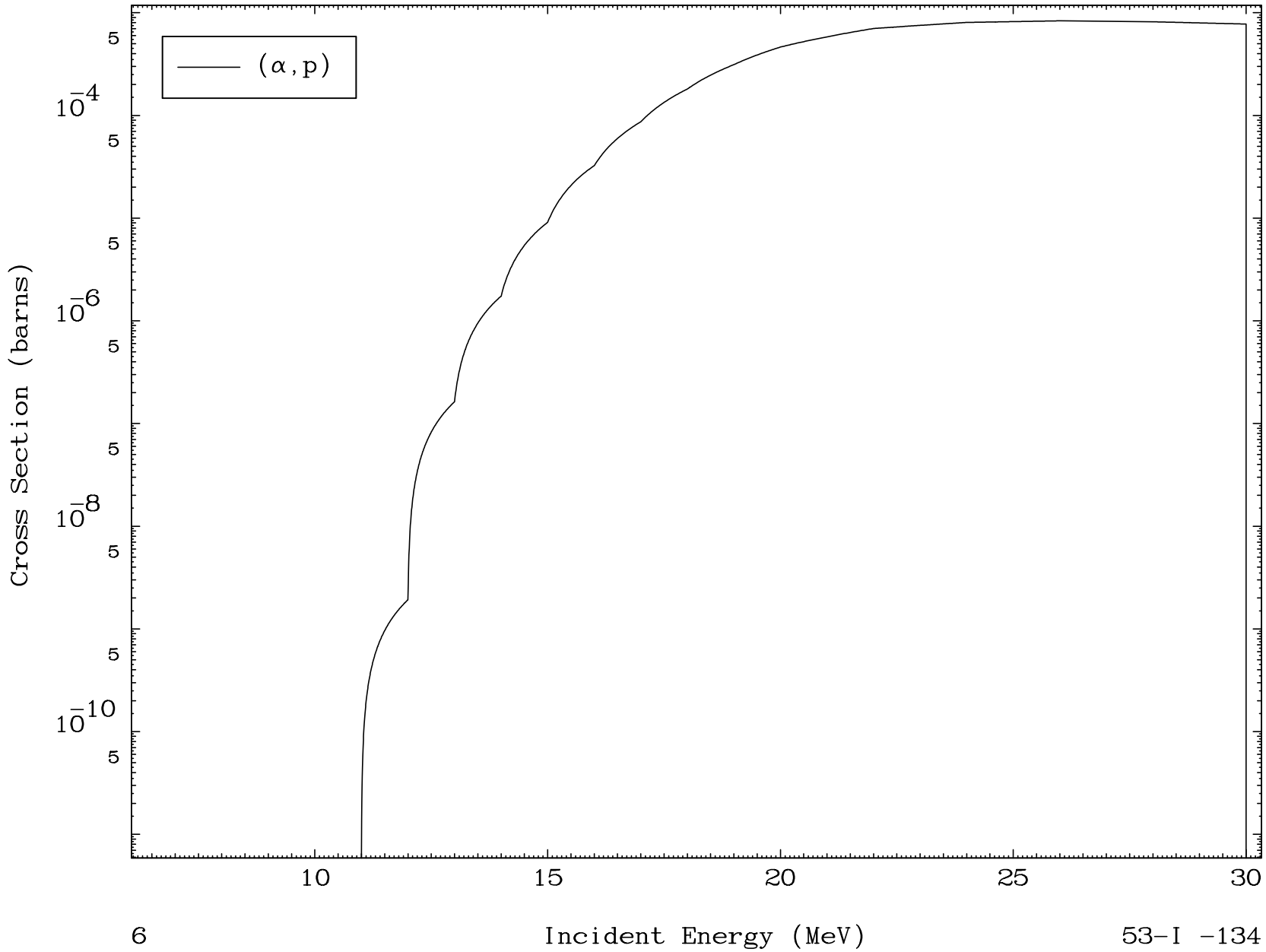
0 Kelvin Cross Sections



0 Kelvin Cross Sections



0 Kelvin Cross Sections



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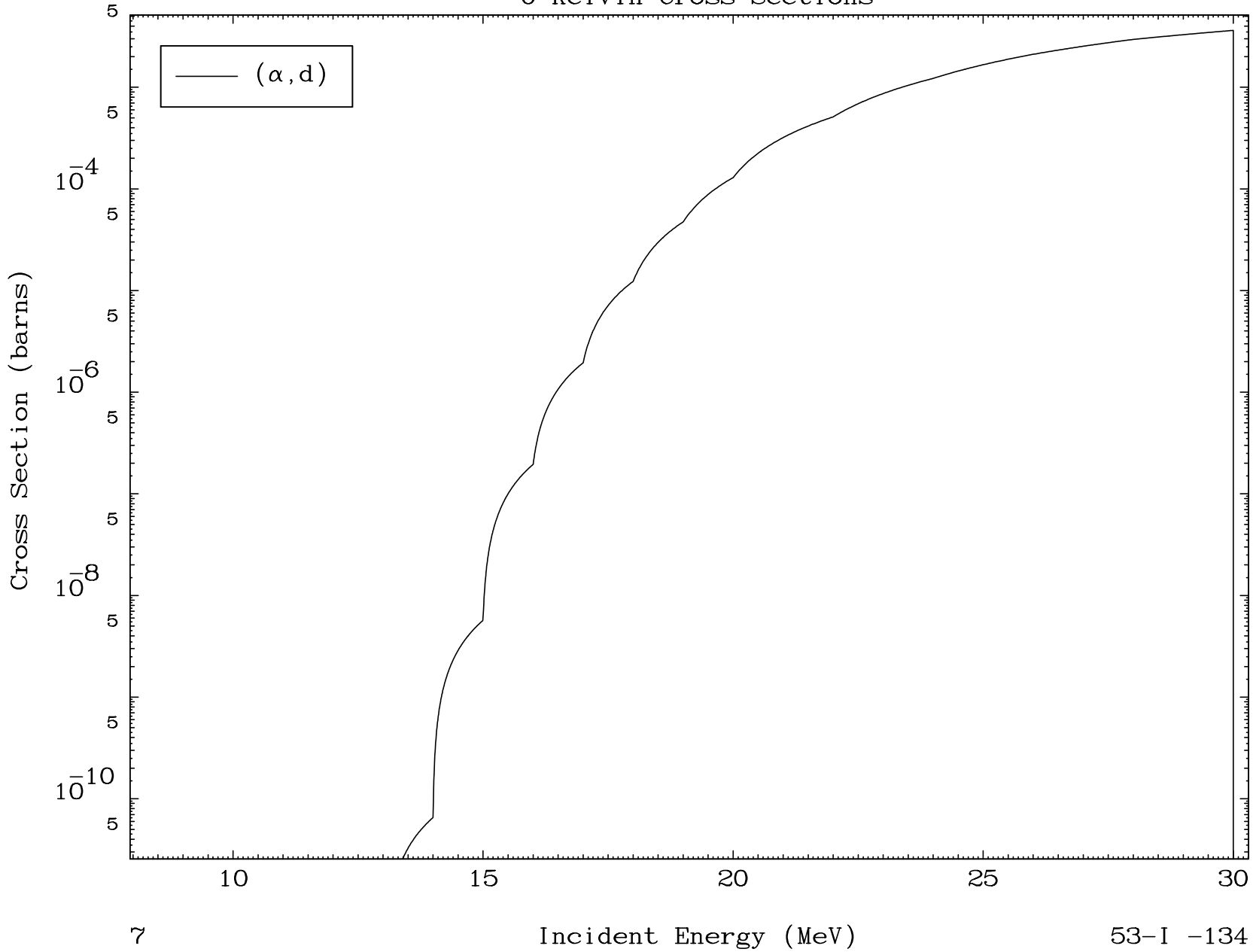
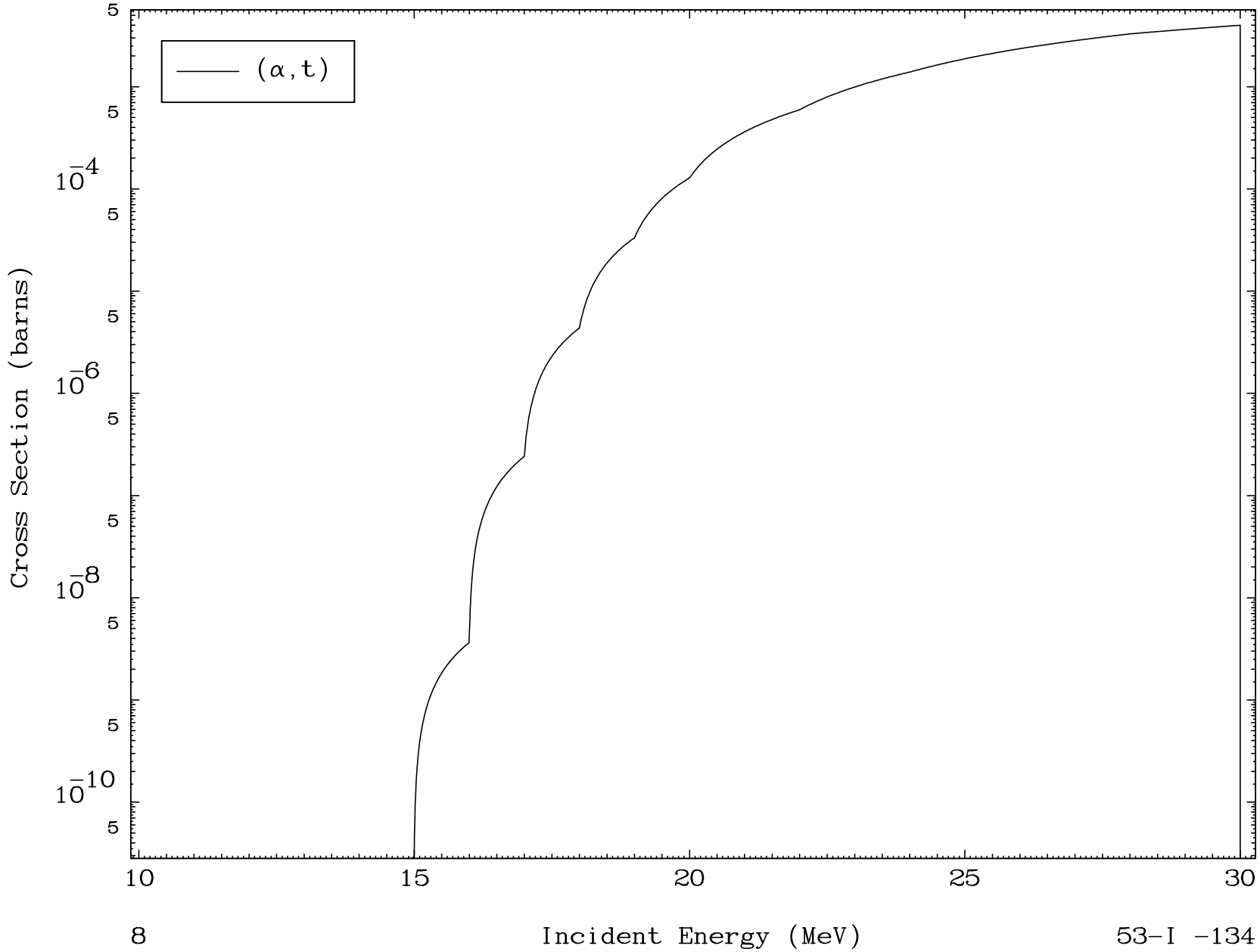


0 Kelvin Cross Sections



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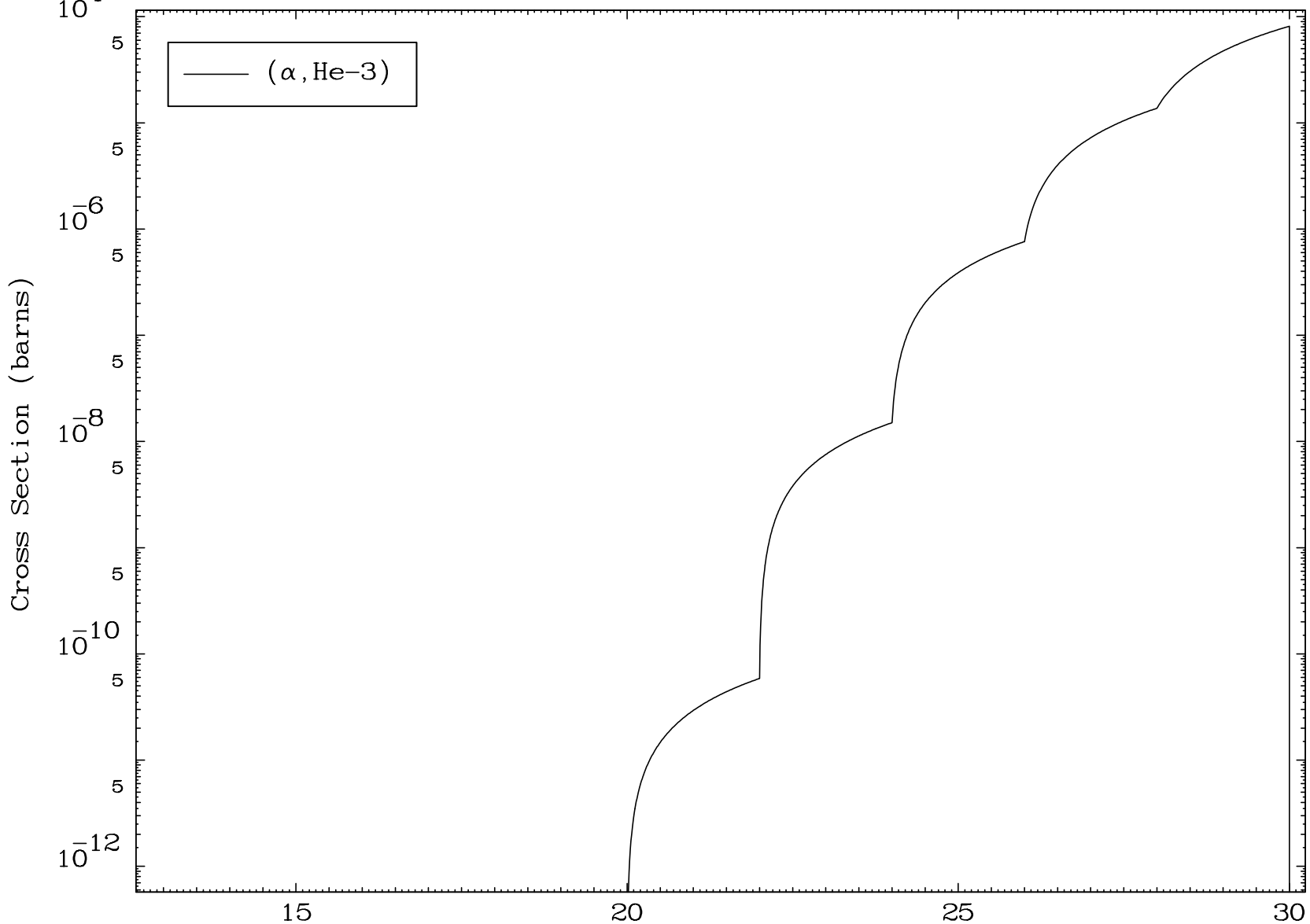
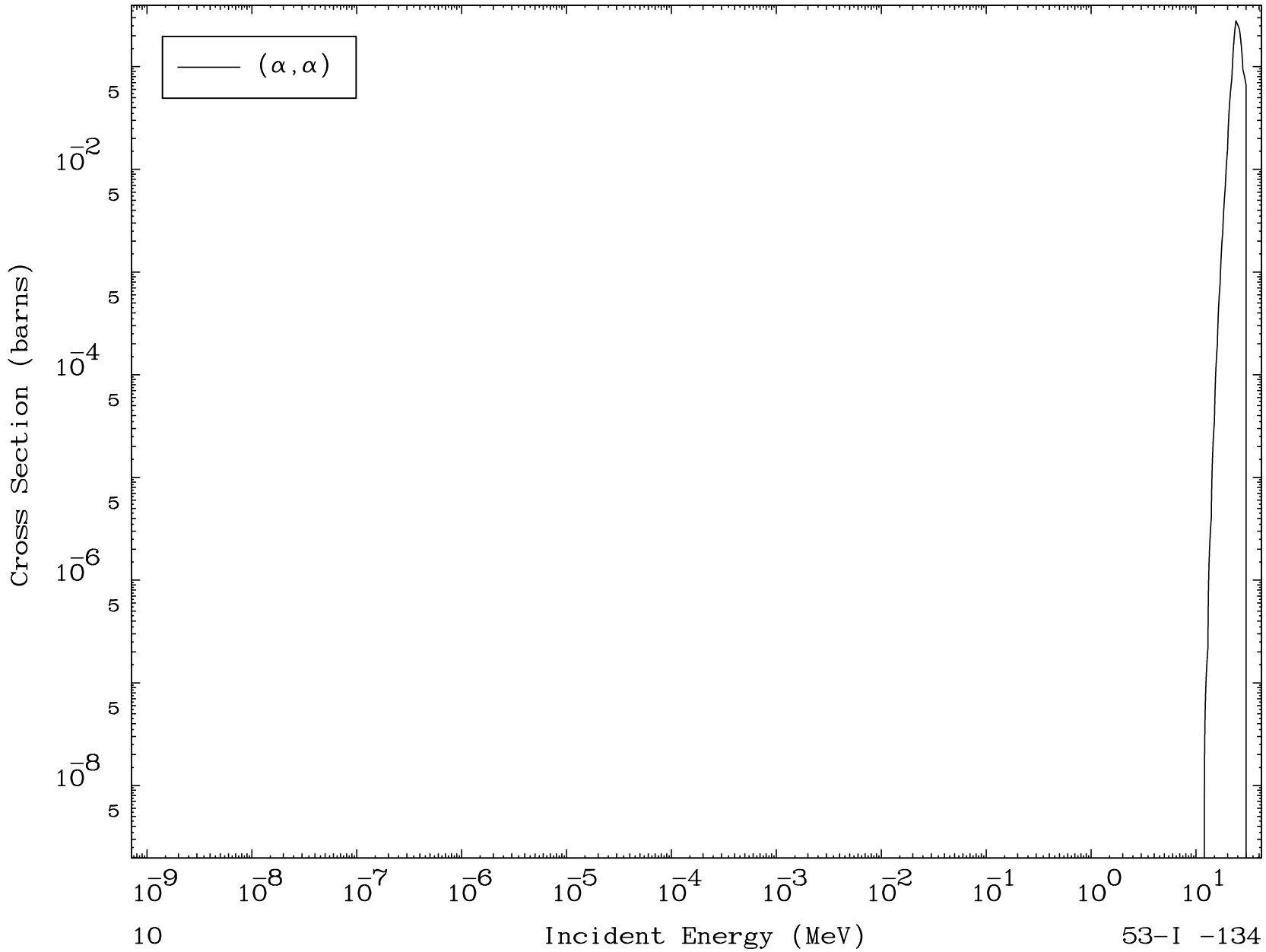
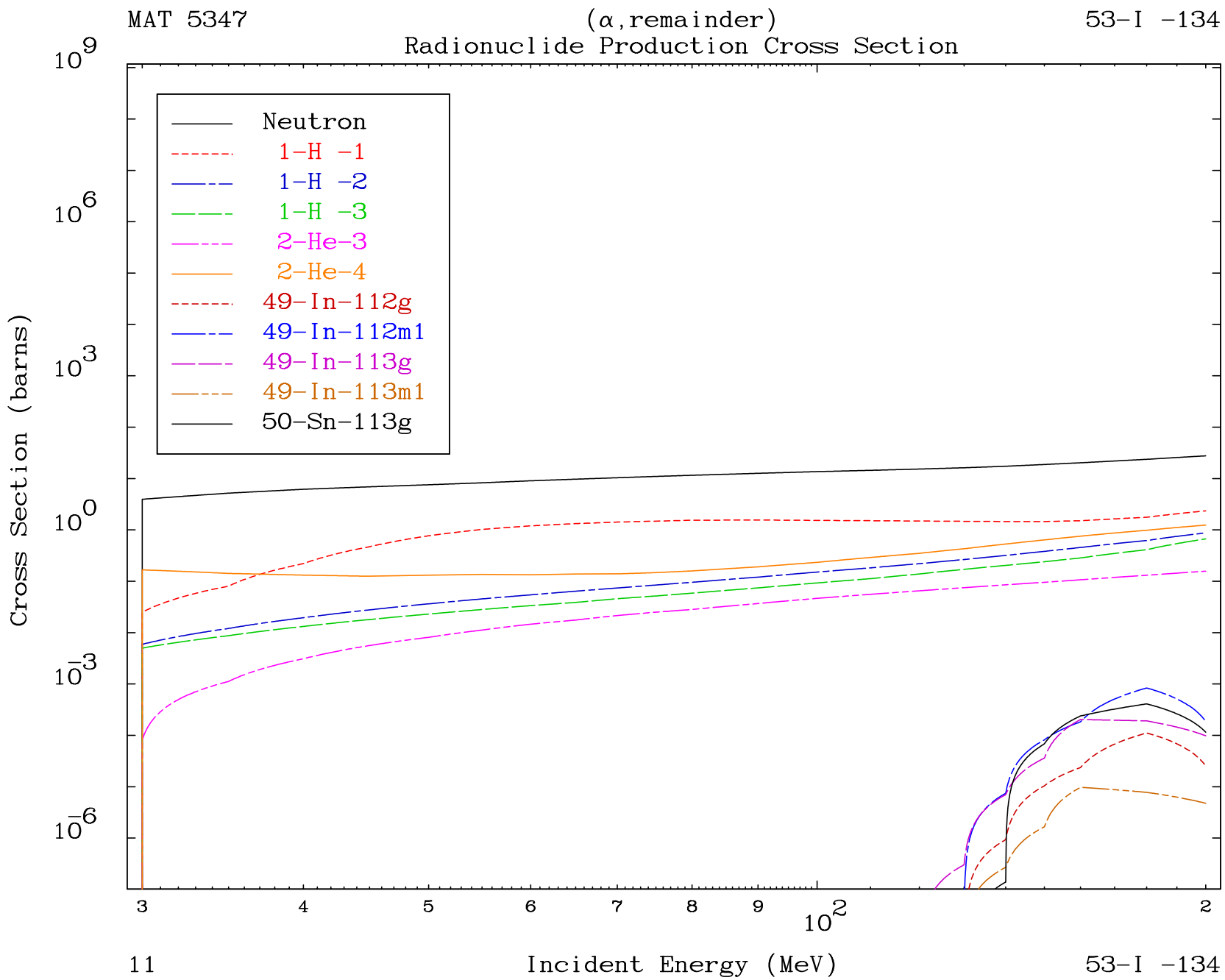
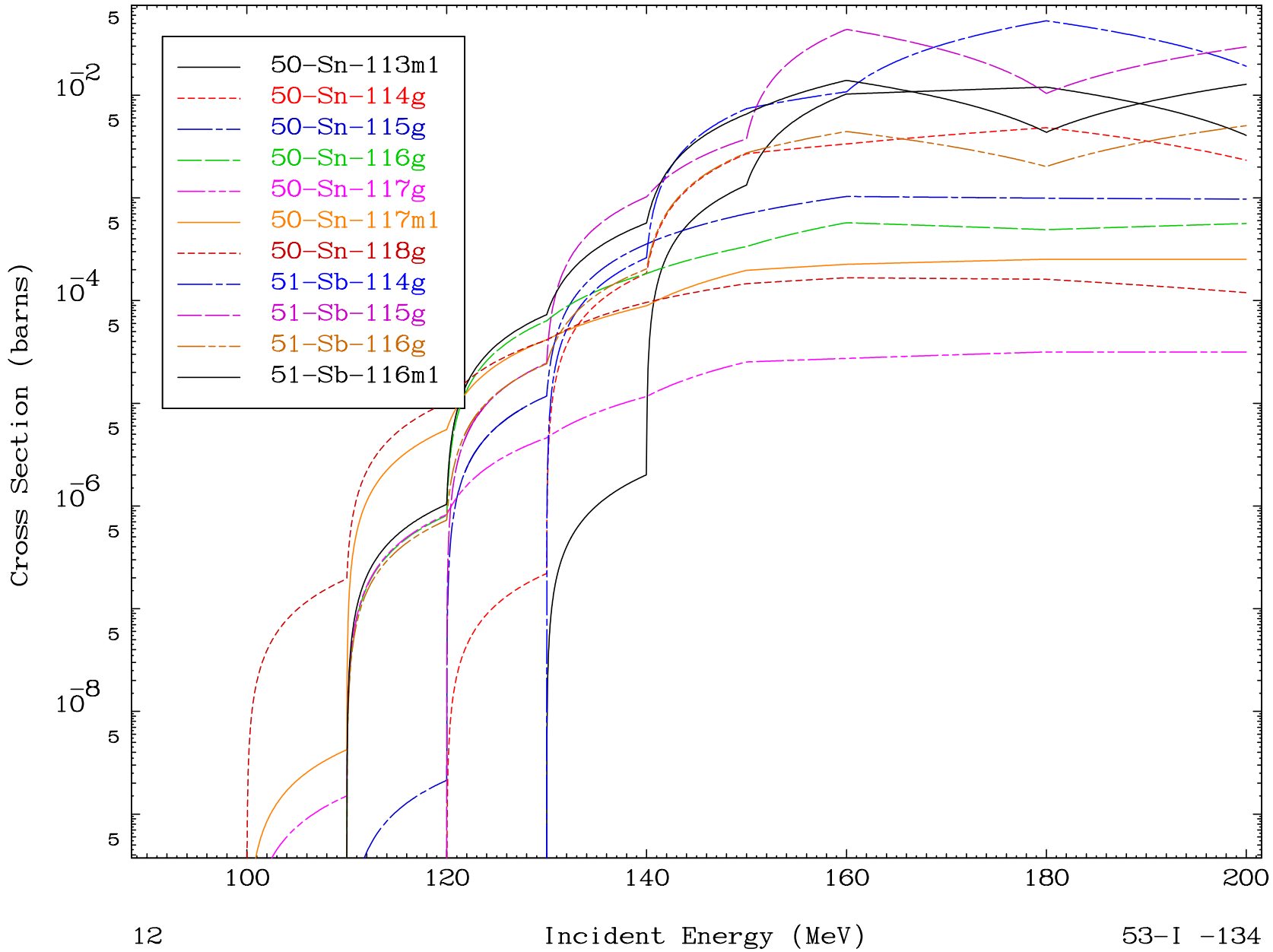


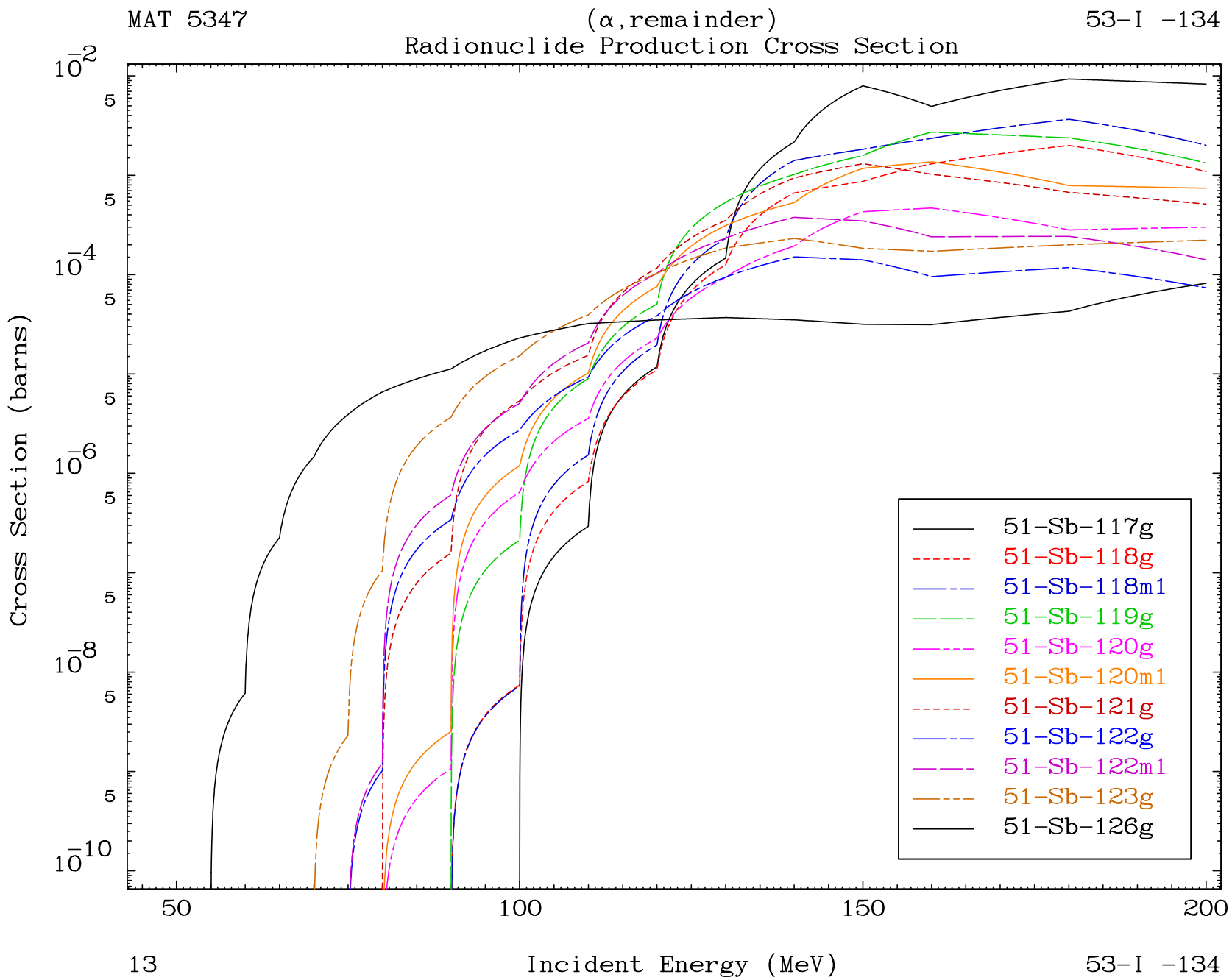
0 Kelvin Cross Sections



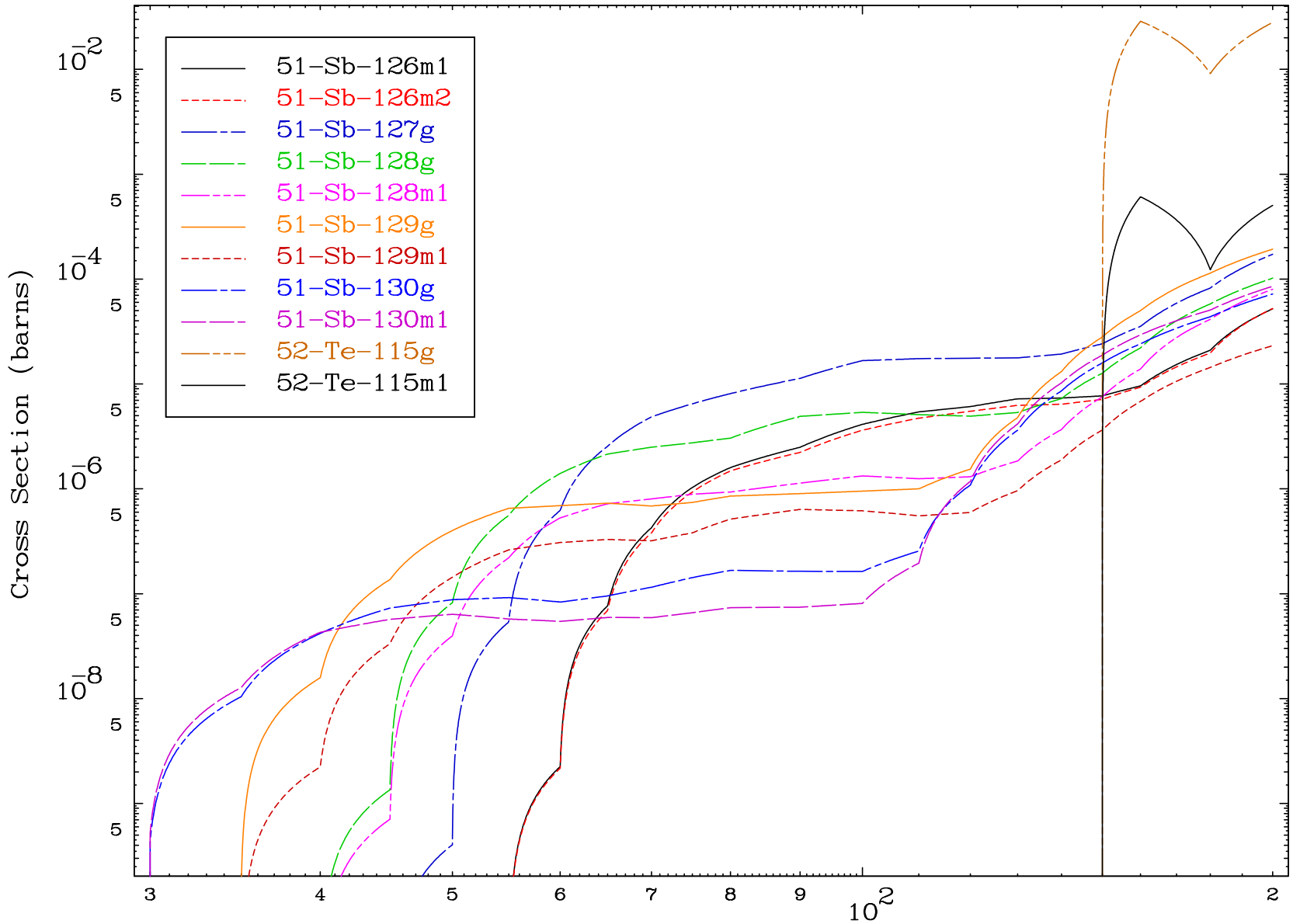

MAT 5347
(α,remainder)
53-I -134
Radionuclide Production Cross Section
Neutron
1-H -1
1-H -2
1-H -3
2-He-3
2-He-4
49-In-112g
49-In-112m1
49-In-113g
49-In-113m1
50-Sn-113g
Cross Section (barns)
Incident Energy (MeV)
11
53-I -134

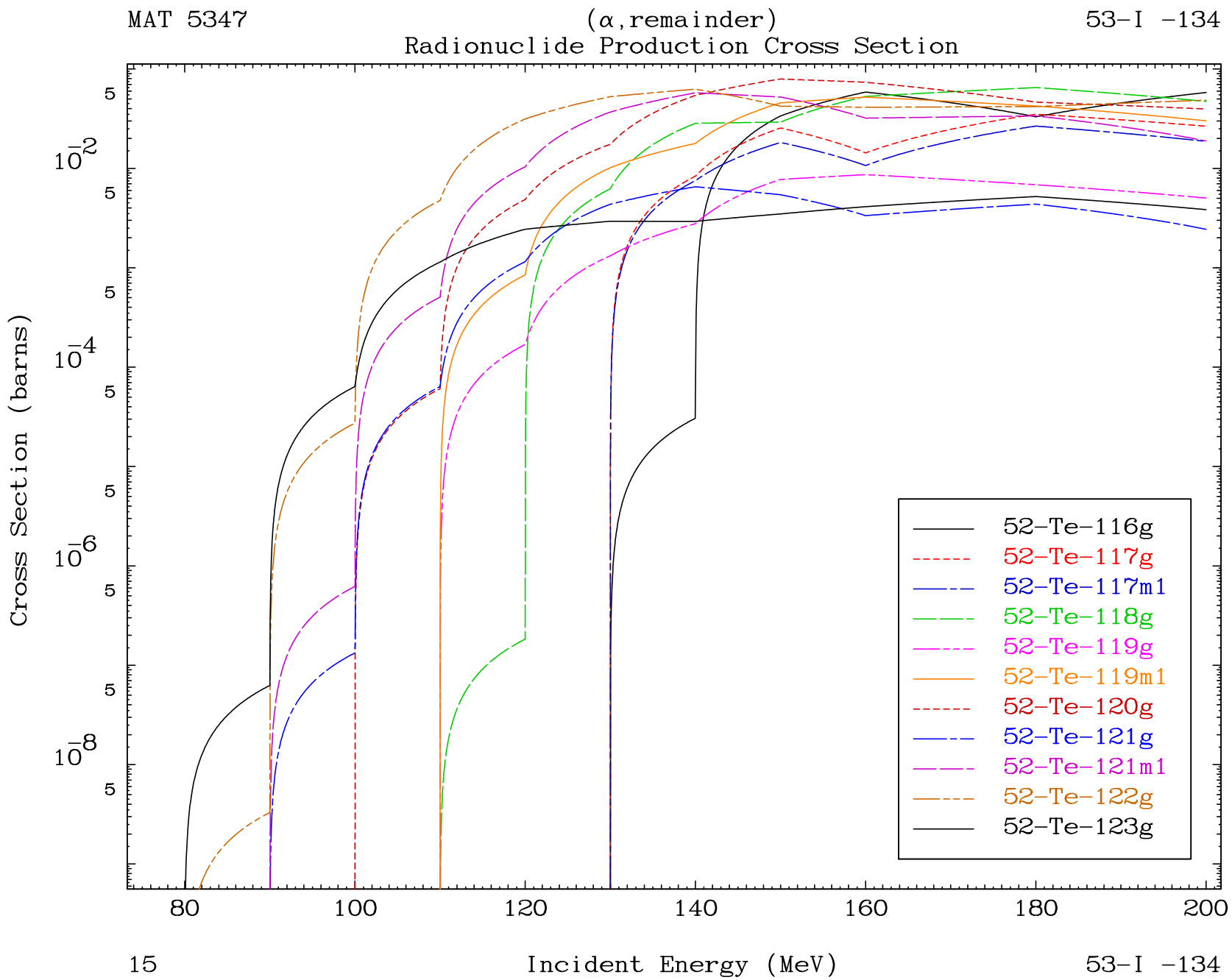
Radionuclide Production Cross Section



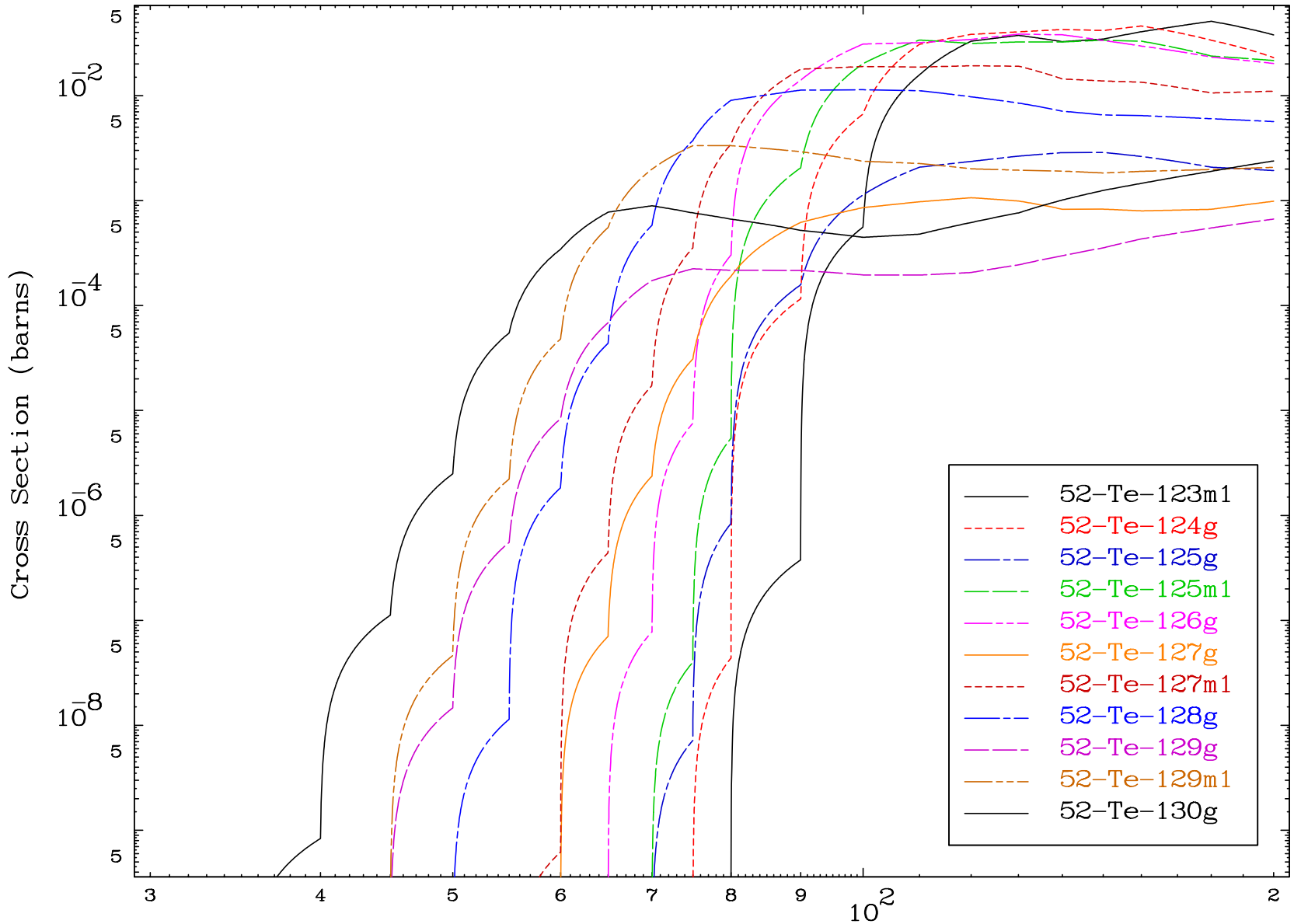

MAT 5347
(α,remainder)
53-I -134
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
13
53-I -134
51-Sb-117g
51-Sb-118g
51-Sb-118m1
51-Sb-119g
51-Sb-120g
51-Sb-120m1
51-Sb-121g
51-Sb-122g
51-Sb-122m1
51-Sb-123g
51-Sb-126g

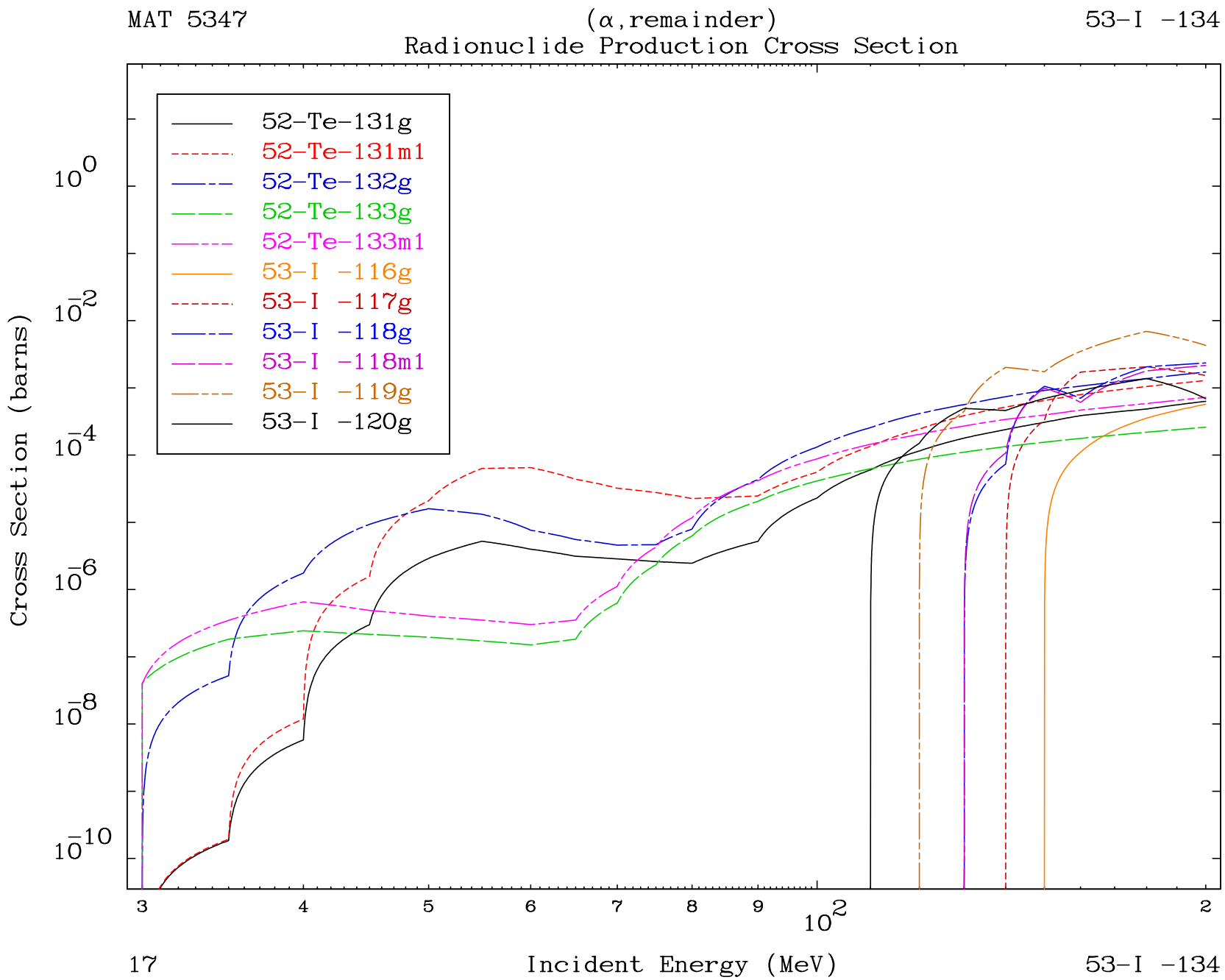
Radionuclide Production Cross Section

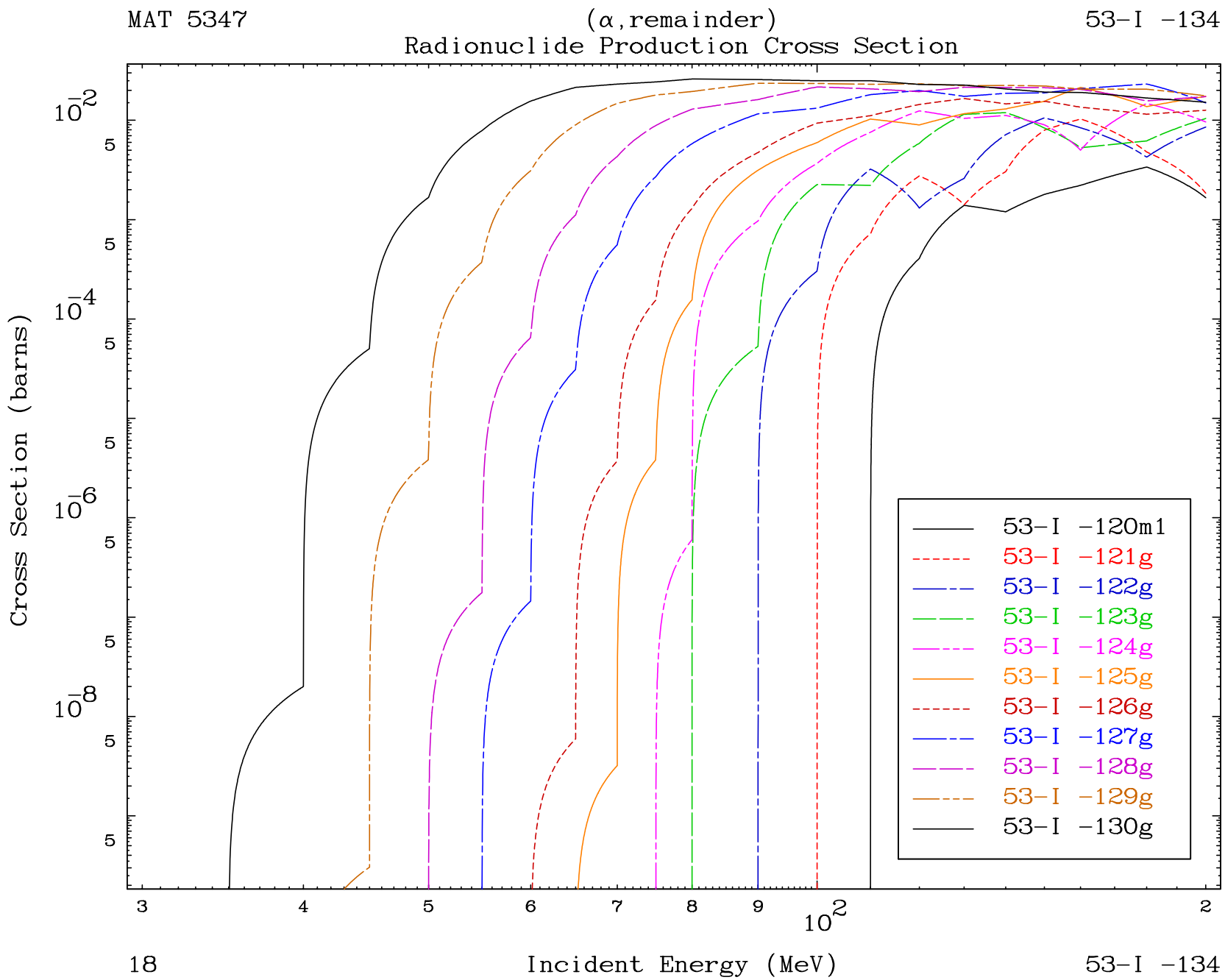


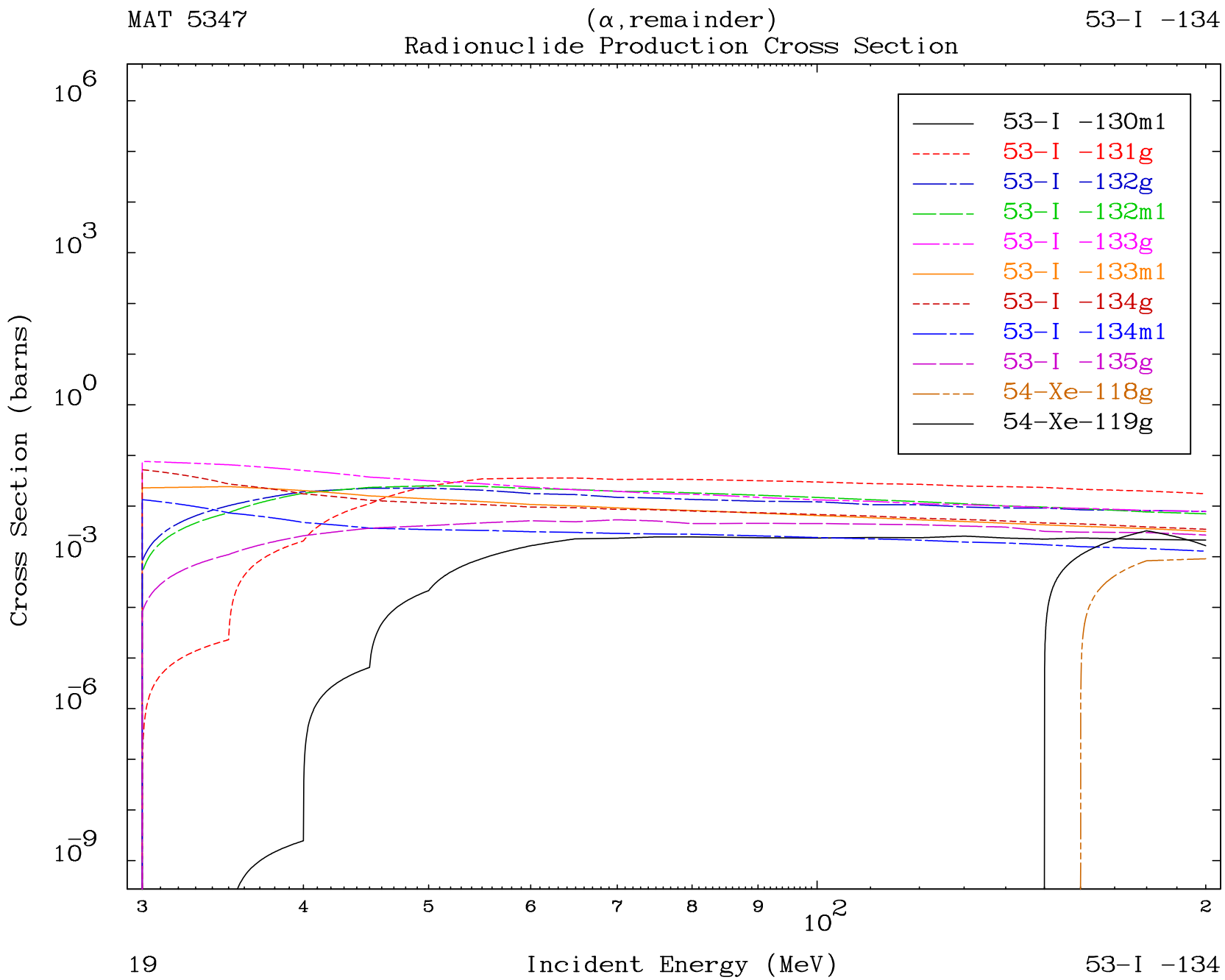

MAT 5347
(α,remainder)
53-I -134
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
15
53-I -134
52-Te-116g
52-Te-117g
52-Te-117m1
52-Te-118g
52-Te-119g
52-Te-119m1
52-Te-120g
52-Te-121g
52-Te-121m1
52-Te-122g
52-Te-123g

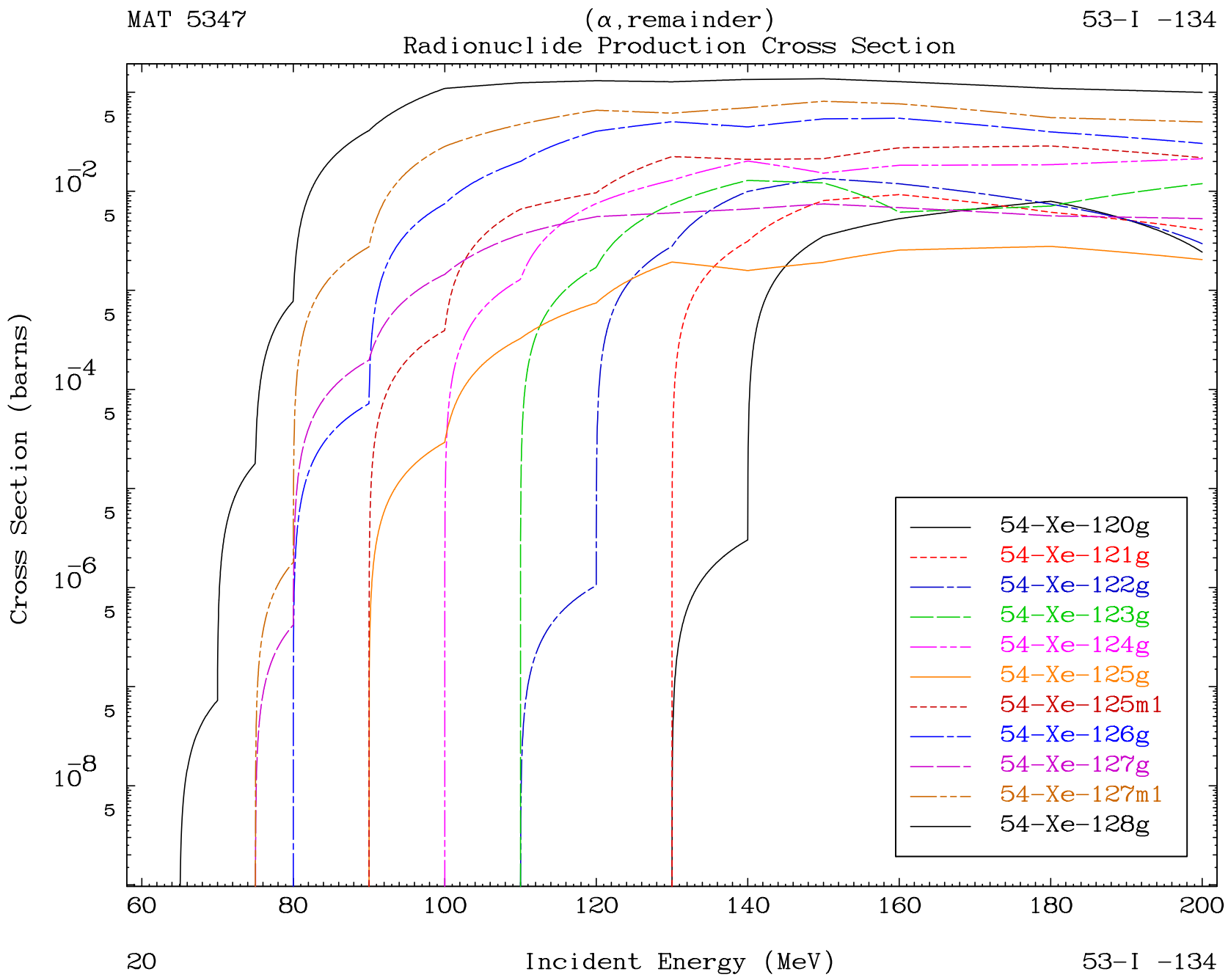
Radionuclide Production Cross Section

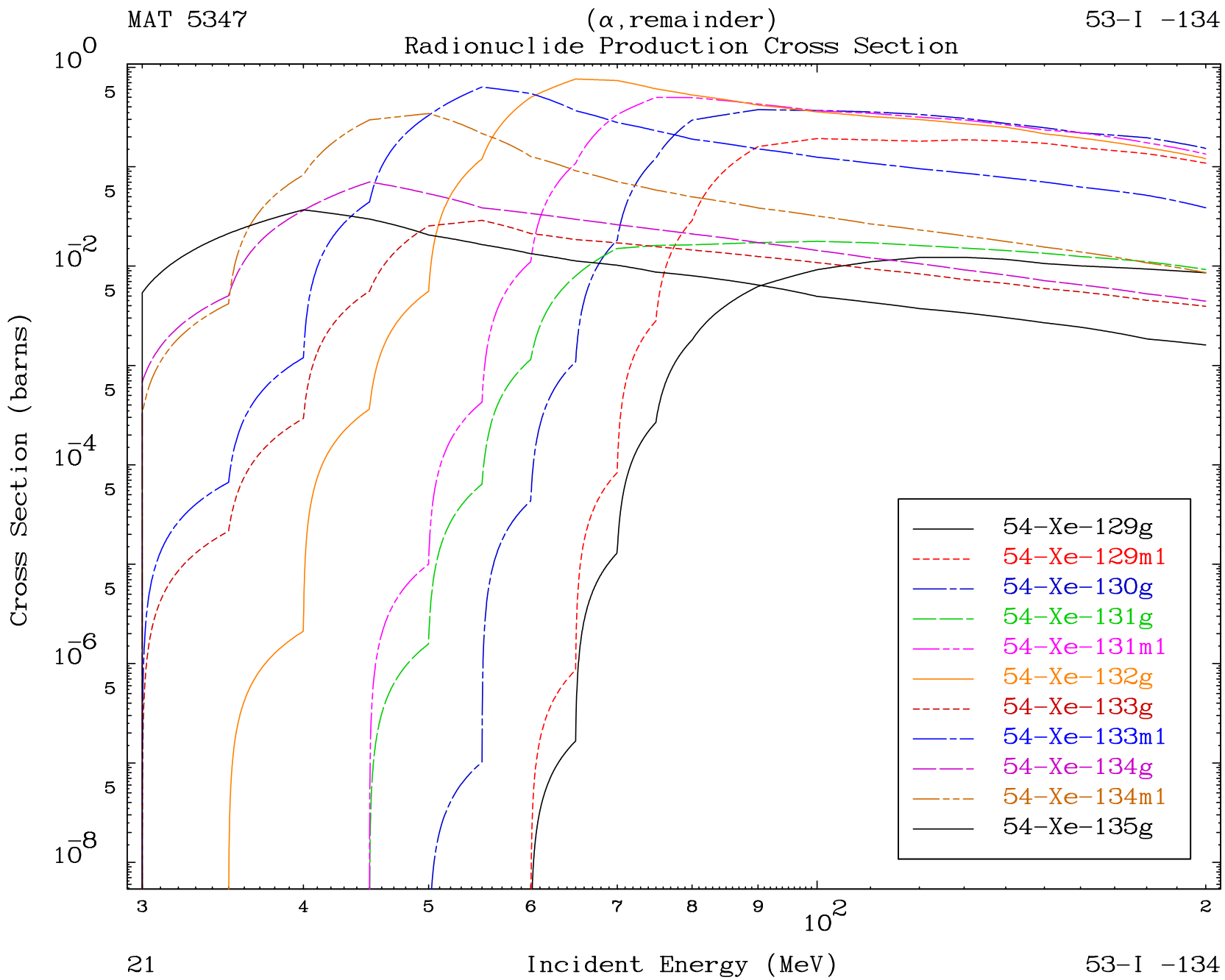



MAT 5347
(α,remainder)
53-I -134
Radionuclide Production Cross Section
52-Te-131g
52-Te-131m1
52-Te-132g
52-Te-133g
52-Te-133m1
53-I -116g
53-I -117g
53-I -118g
53-I -118m1
53-I -119g
53-I -120g
Cross Section (barns)
Incident Energy (MeV)
17
53-I -134

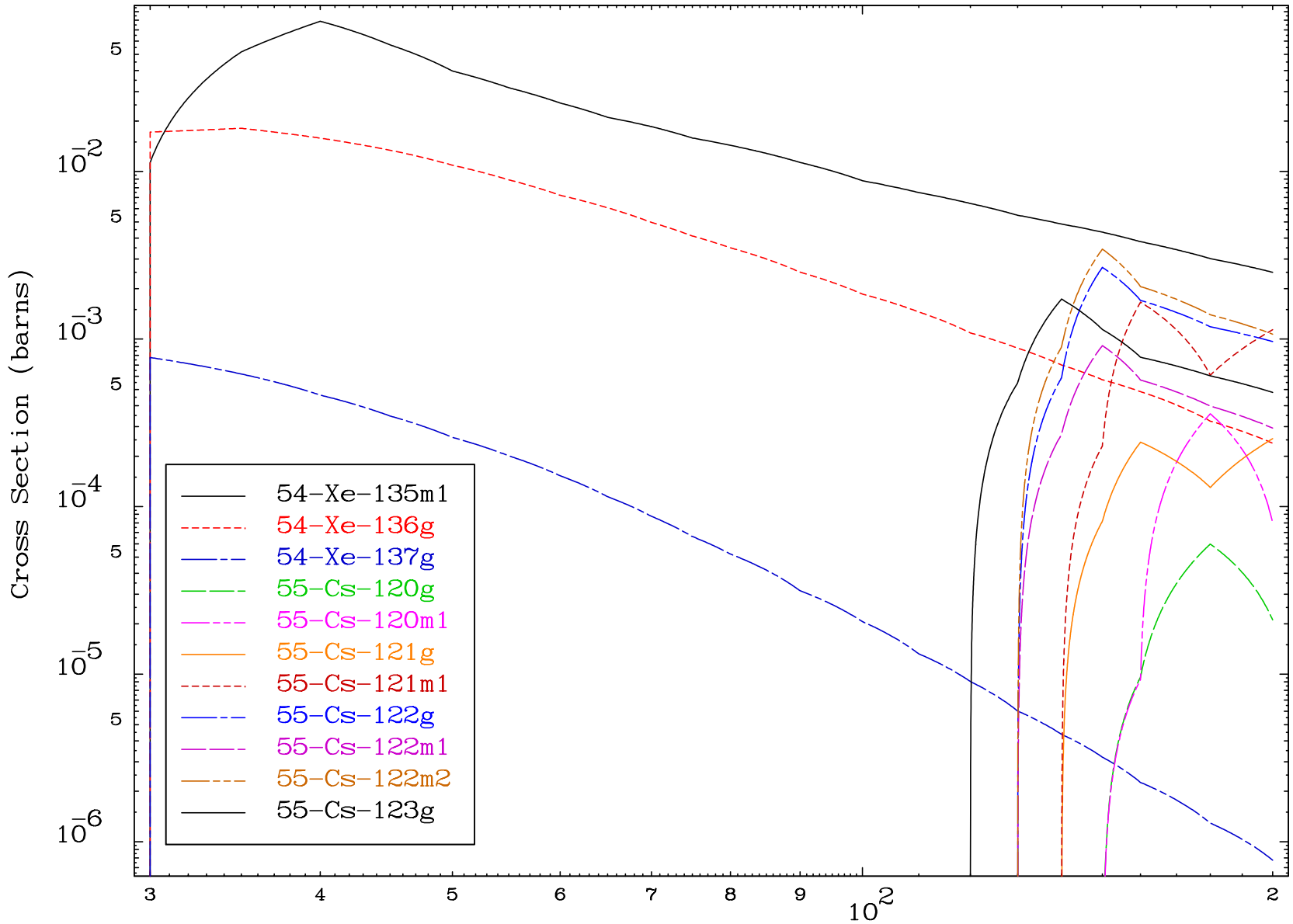

MAT 5347
(α,remainder)
53-I -134
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
53-I -120m1
53-I -121g
53-I -122g
53-I -123g
53-I -124g
53-I -125g
53-I -126g
53-I -127g
53-I -128g
53-I -129g
53-I -130g
18
53-I -134

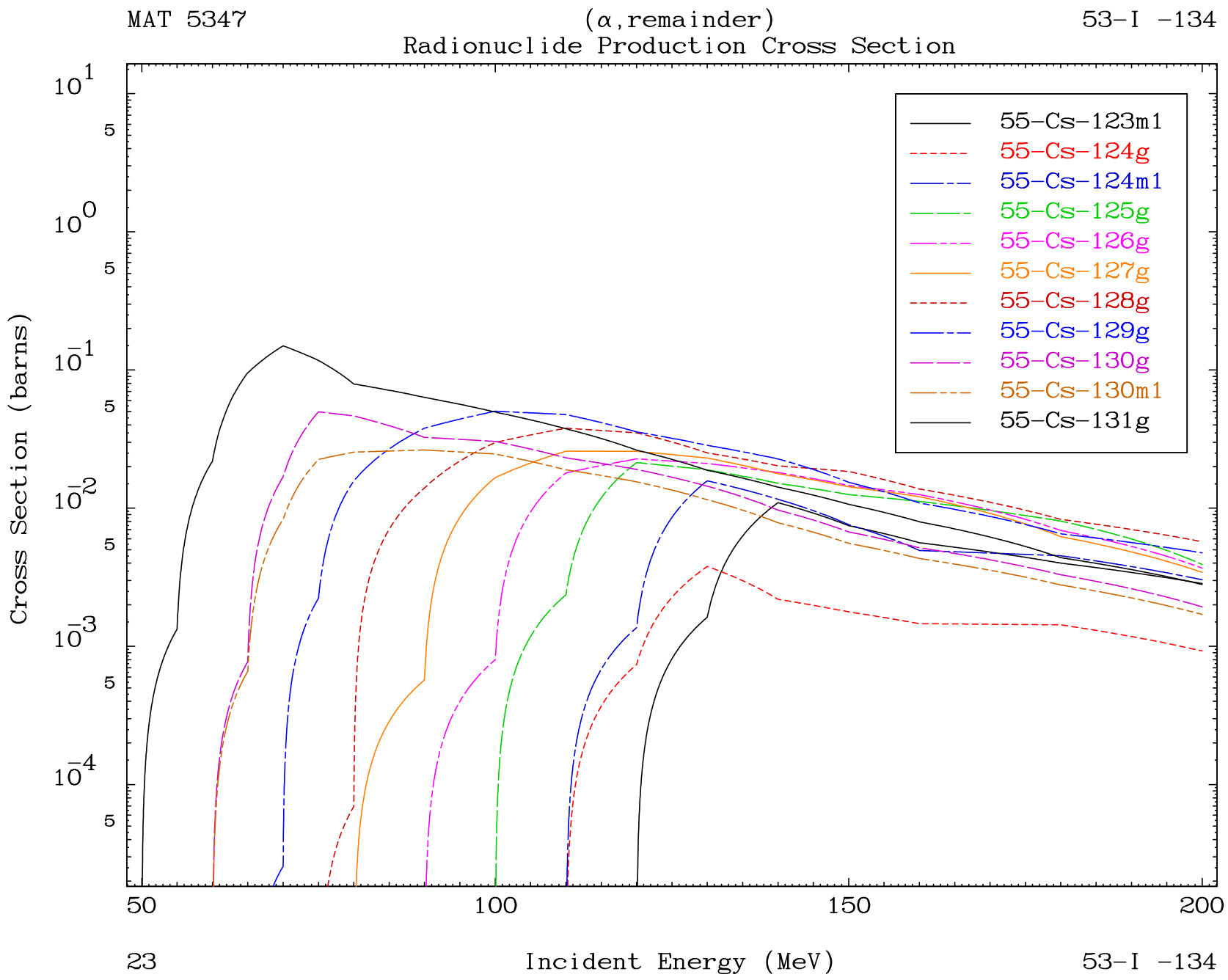

MAT 5347
(α,remainder)
53-I -134
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
53-I -130m1
53-I -131g
53-I -132g
53-I -132m1
53-I -133g
53-I -133m1
53-I -134g
53-I -134m1
53-I -135g
54-Xe-118g
54-Xe-119g
19
53-I -134

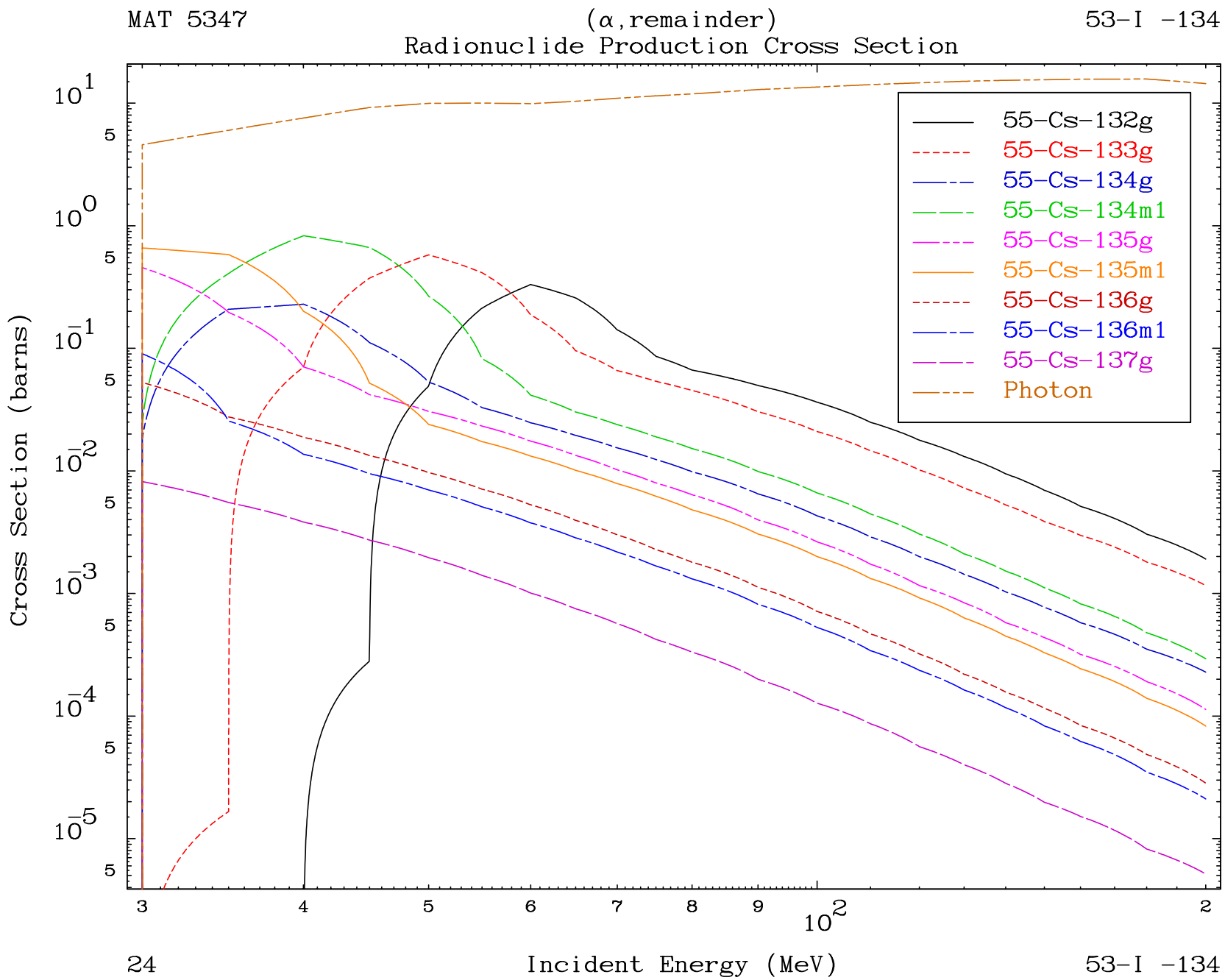

MAT 5347
(α,remainder)
53-I -134
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
20
53-I -134
54-Xe-120g
54-Xe-121g
54-Xe-122g
54-Xe-123g
54-Xe-124g
54-Xe-125g
54-Xe-125m1
54-Xe-126g
54-Xe-127g
54-Xe-127m1
54-Xe-128g

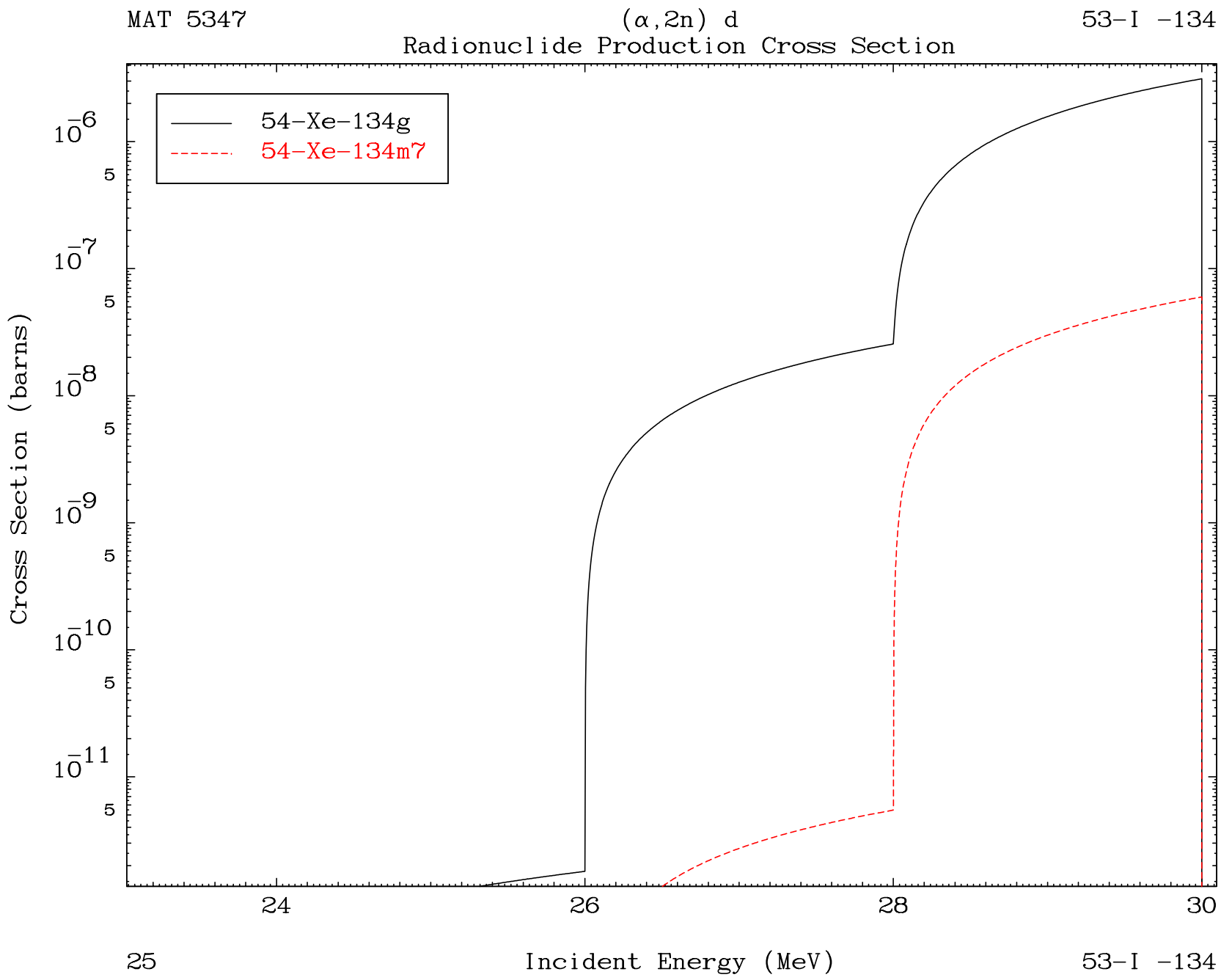

MAT 5347
(α,remainder)
53-I -134
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
21
53-I -134
54-Xe-129g
54-Xe-129m1
54-Xe-130g
54-Xe-131g
54-Xe-131m1
54-Xe-132g
54-Xe-133g
54-Xe-133m1
54-Xe-134g
54-Xe-134m1
54-Xe-135g

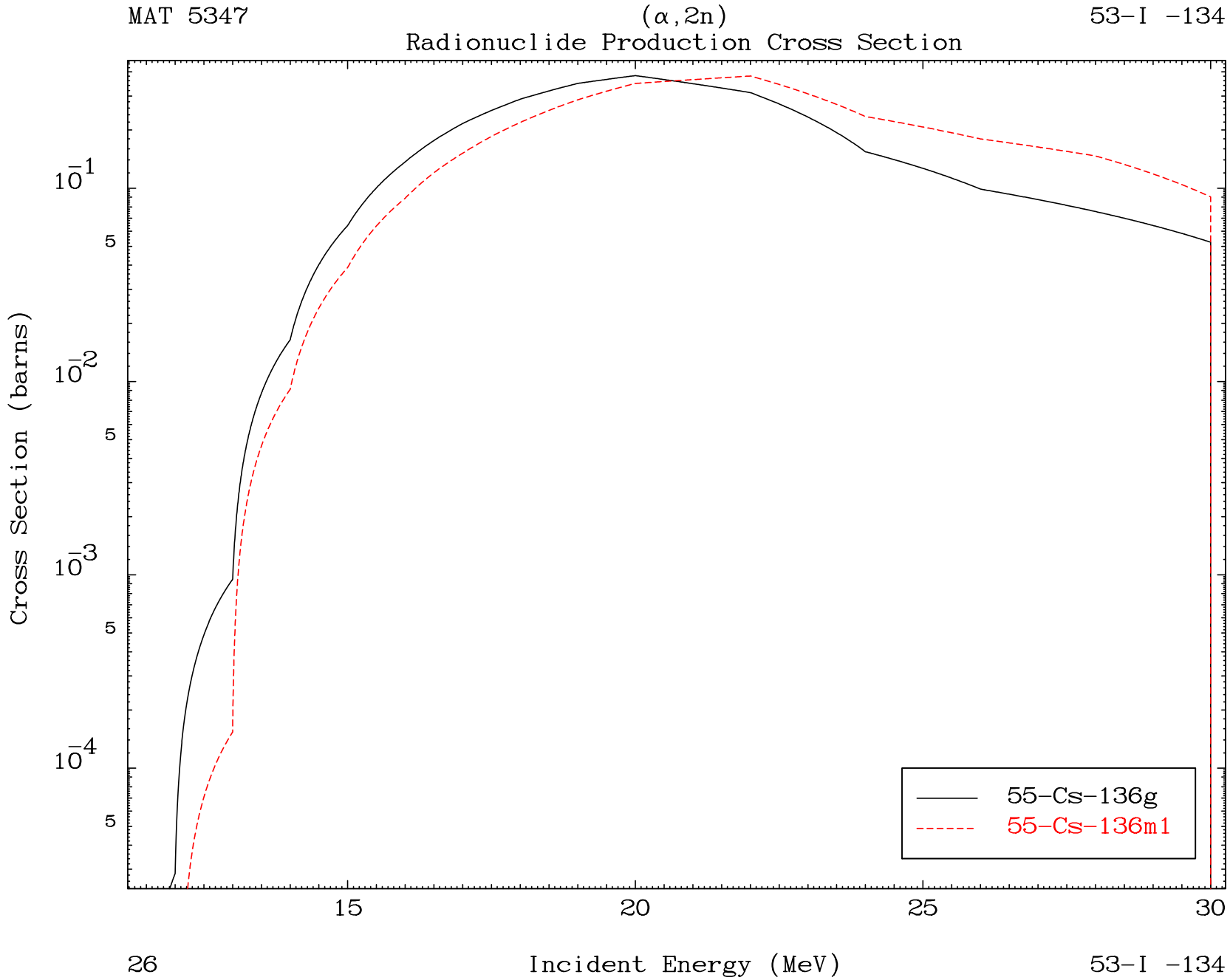
Radionuclide Production Cross Section



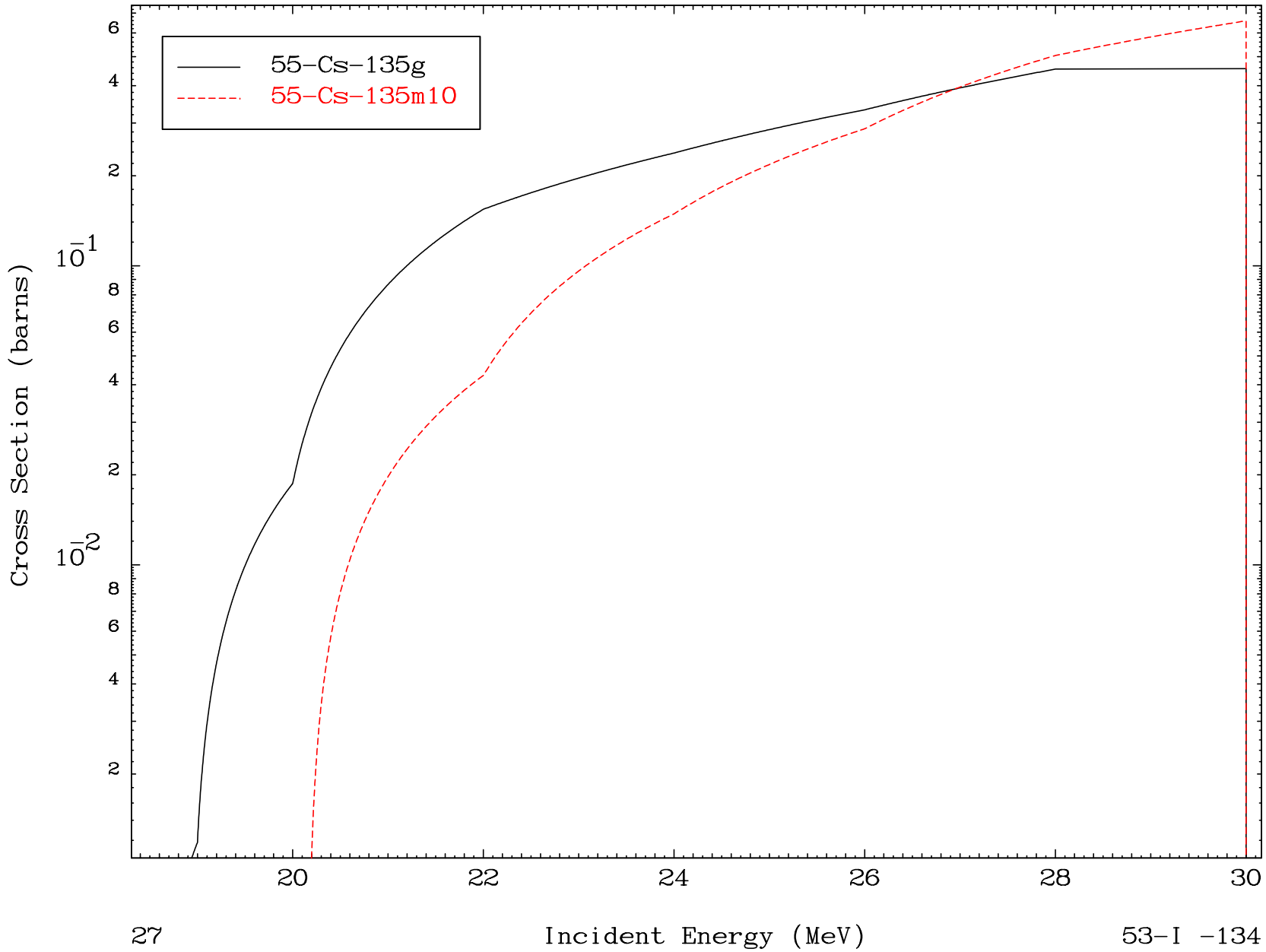

MAT 5347
(α,remainder)
53-I -134
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
55-Cs-123m1
55-Cs-124g
55-Cs-124m1
55-Cs-125g
55-Cs-126g
55-Cs-127g
55-Cs-128g
55-Cs-129g
55-Cs-130g
55-Cs-130m1
55-Cs-131g
23
53-I -134


MAT 5347
(α,remainder)
53-I -134
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
24
53-I -134
55-Cs-132g
55-Cs-133g
55-Cs-134g
55-Cs-134m1
55-Cs-135g
55-Cs-135m1
55-Cs-136g
55-Cs-136m1
55-Cs-137g
Photon

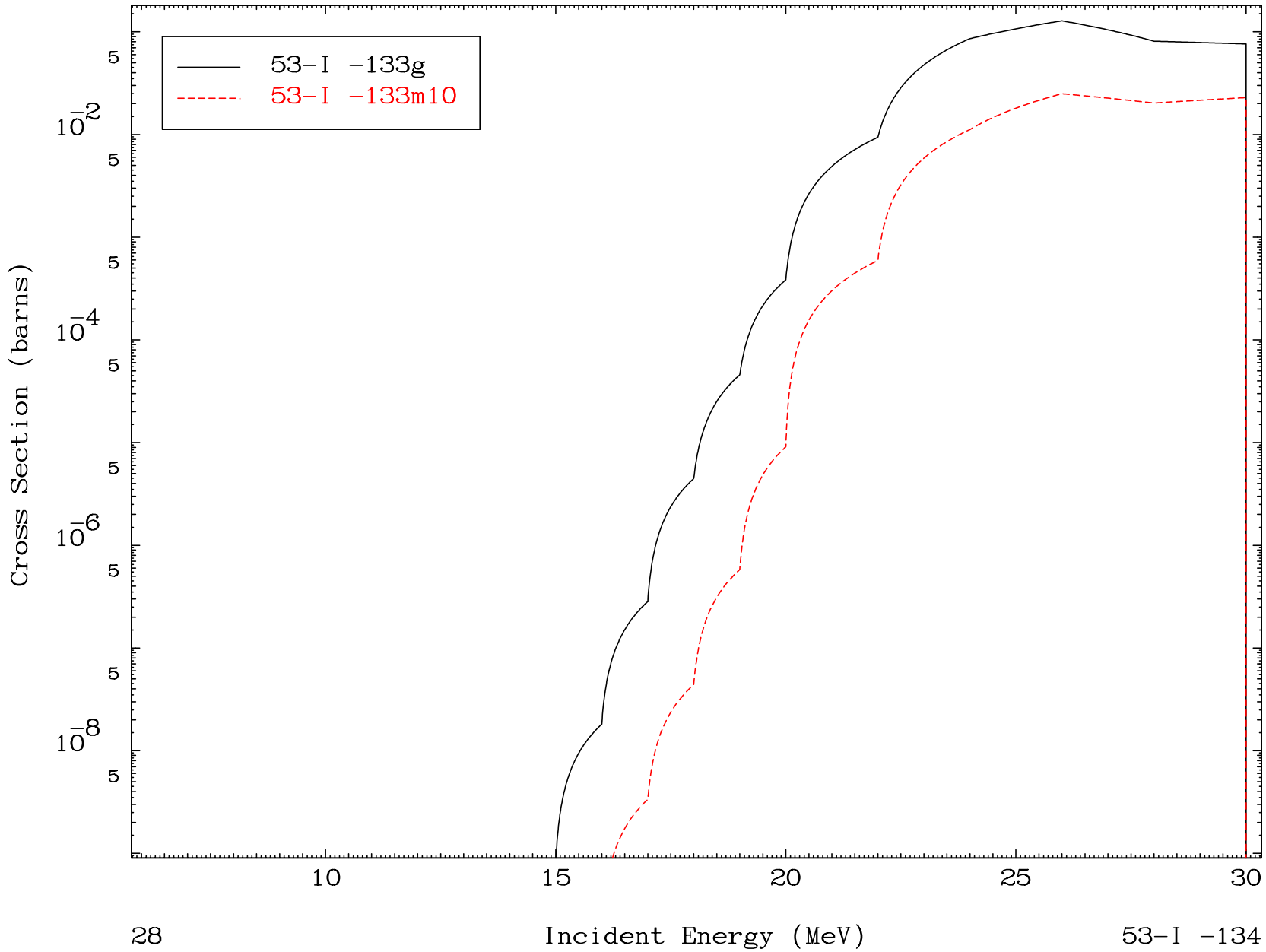

MAT 5347
(α,2n) d
53-I -134
Radionuclide Production Cross Section
54-Xe-134g
54-Xe-134m7
Cross Section (barns)
10^-6
10^-7
10^-8
10^-9
10^-10
10^-11
5
24
26
28
30
25
Incident Energy (MeV)
53-I -134

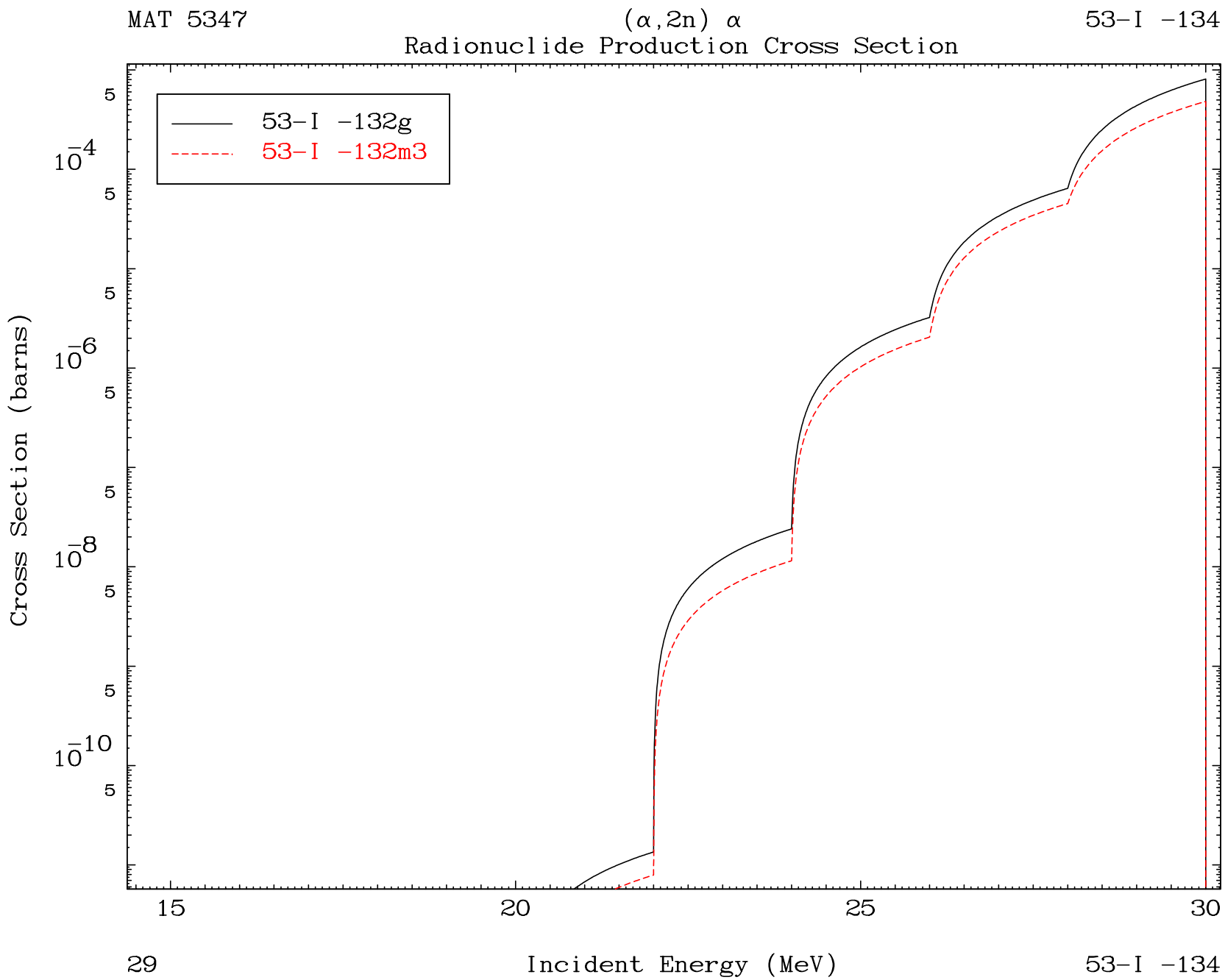

MAT 5347
(α,2n)
53-I -134
Radionuclide Production Cross Section
Cross Section (barns)
10⁻¹
5
10⁻²
5
10⁻³
5
10⁻⁴
5
15
20
25
30
Incident Energy (MeV)
55-Cs-136g
55-Cs-136m1
26
53-I -134

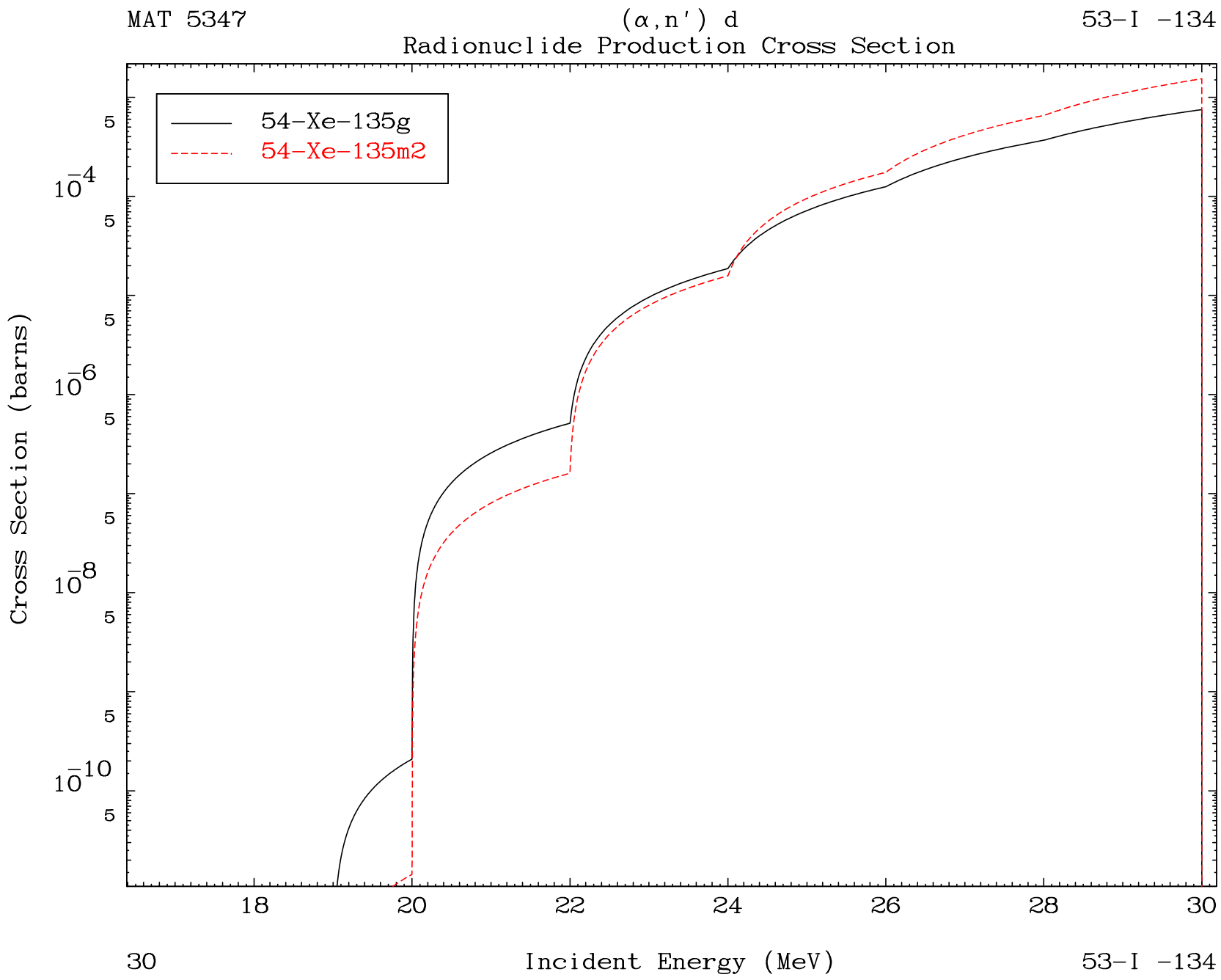
Radionuclide Production Cross Section

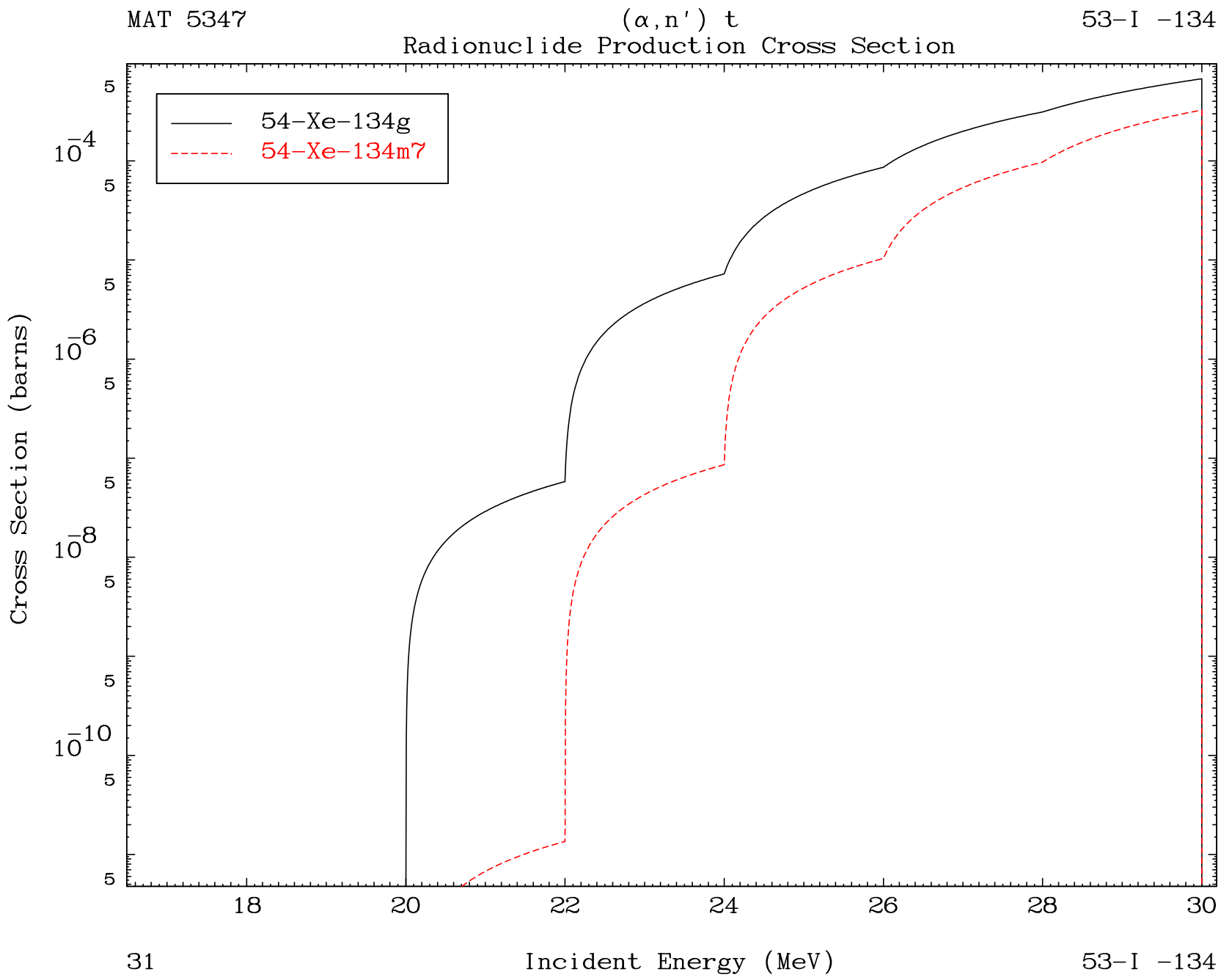


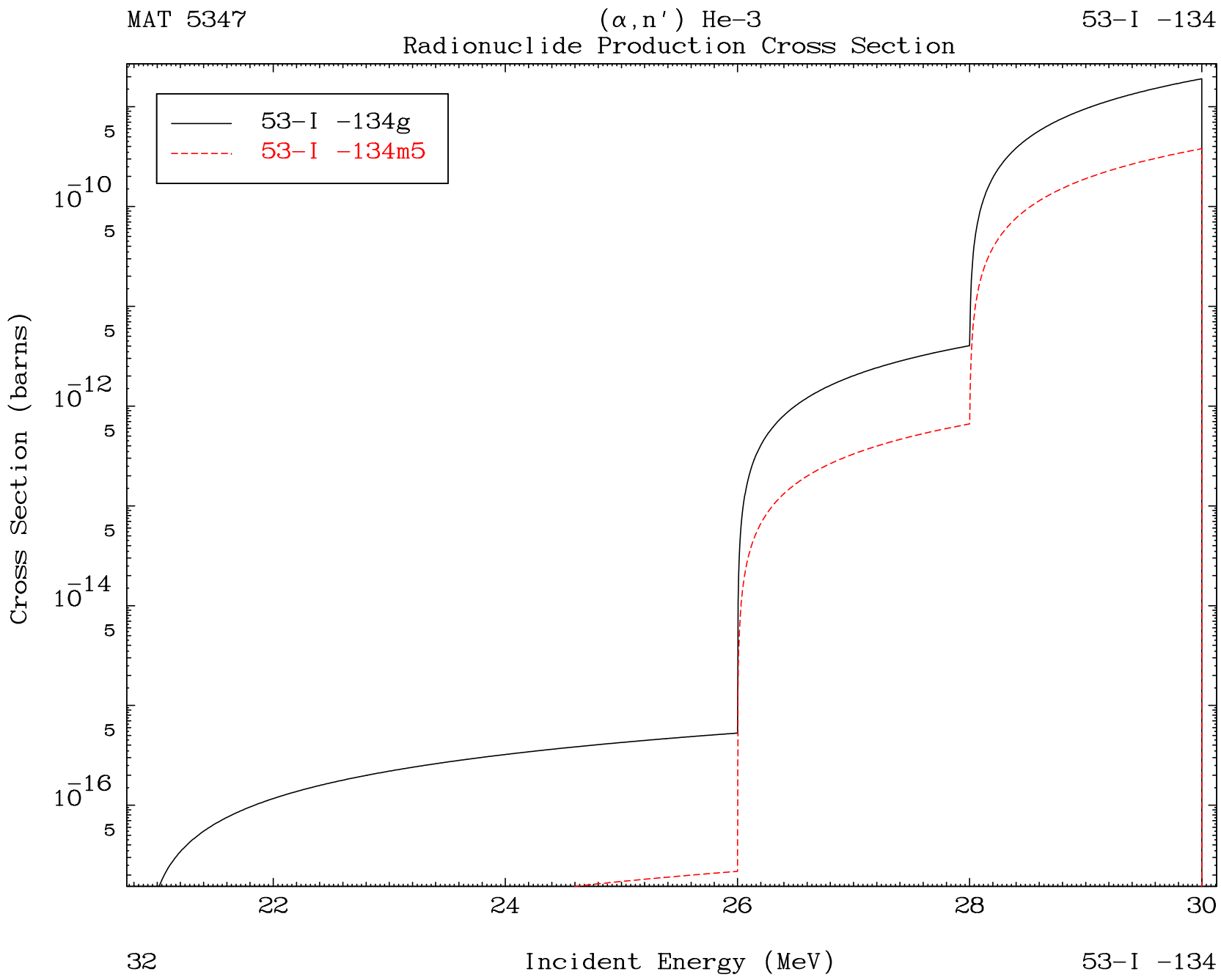
Radionuclide Production Cross Section

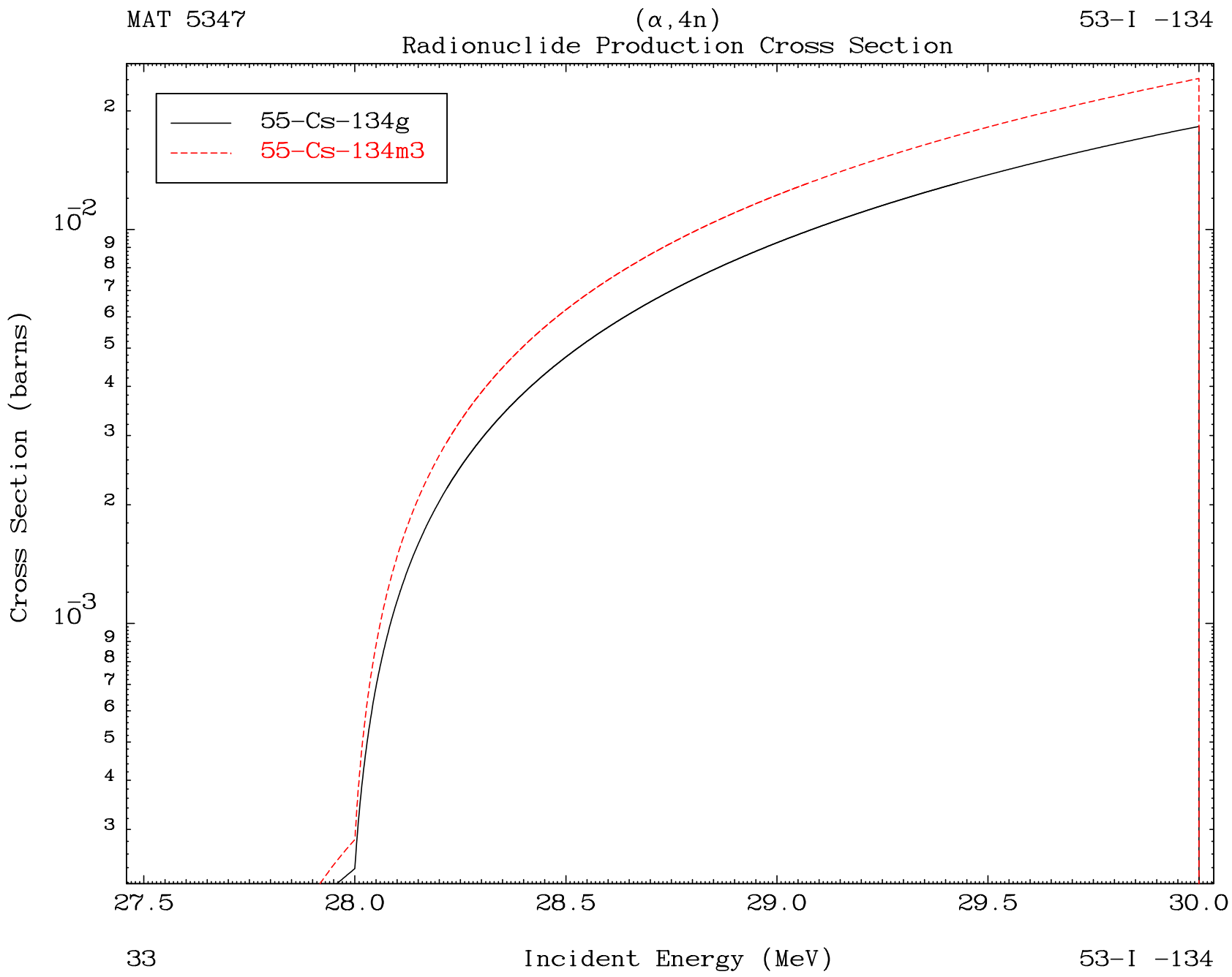


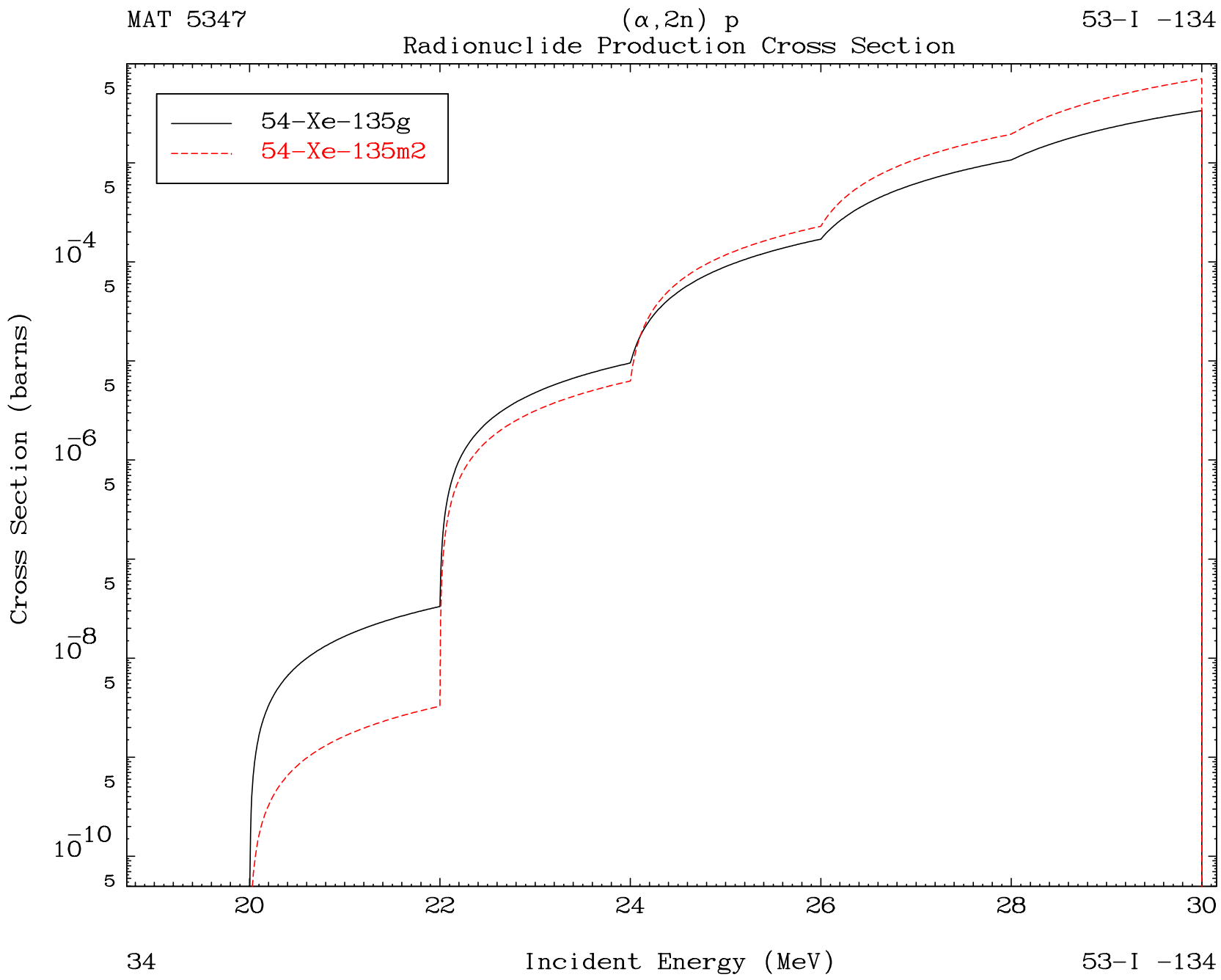

MAT 5347
(α,2n) α
53-I -134
Radionuclide Production Cross Section
53-I -132g
53-I -132m3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
15
20
25
30
29
Incident Energy (MeV)
53-I -134

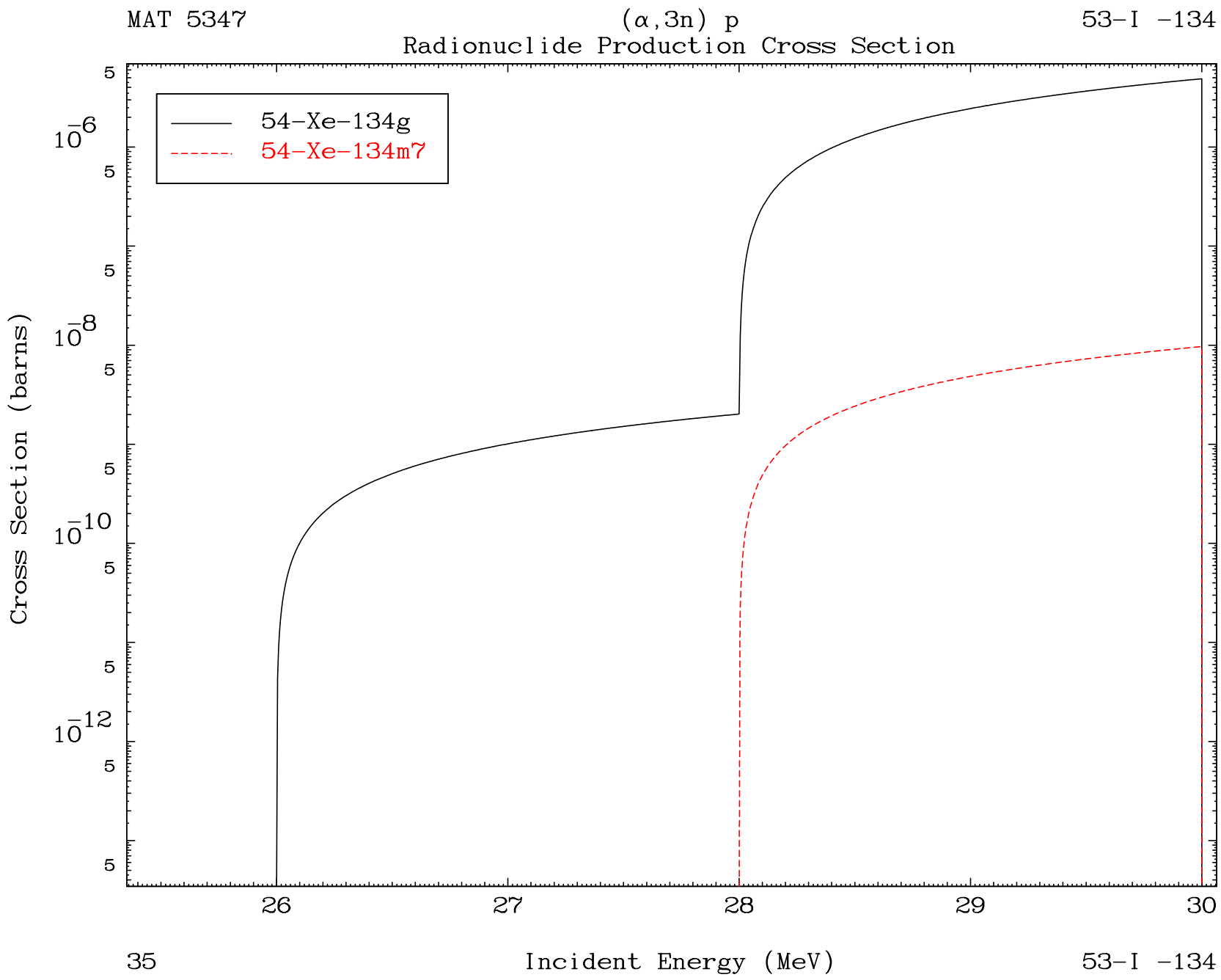

MAT 5347
(α,n') d
53-I -134
Radionuclide Production Cross Section
54-Xe-135g
54-Xe-135m2
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
18
20
22
24
26
28
30
Incident Energy (MeV)
30
53-I -134


MAT 5347
(α,n') t
53-I -134
Radionuclide Production Cross Section
54-Xe-134g
54-Xe-134m7
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
18
20
22
24
26
28
30
31
Incident Energy (MeV)
53-I -134

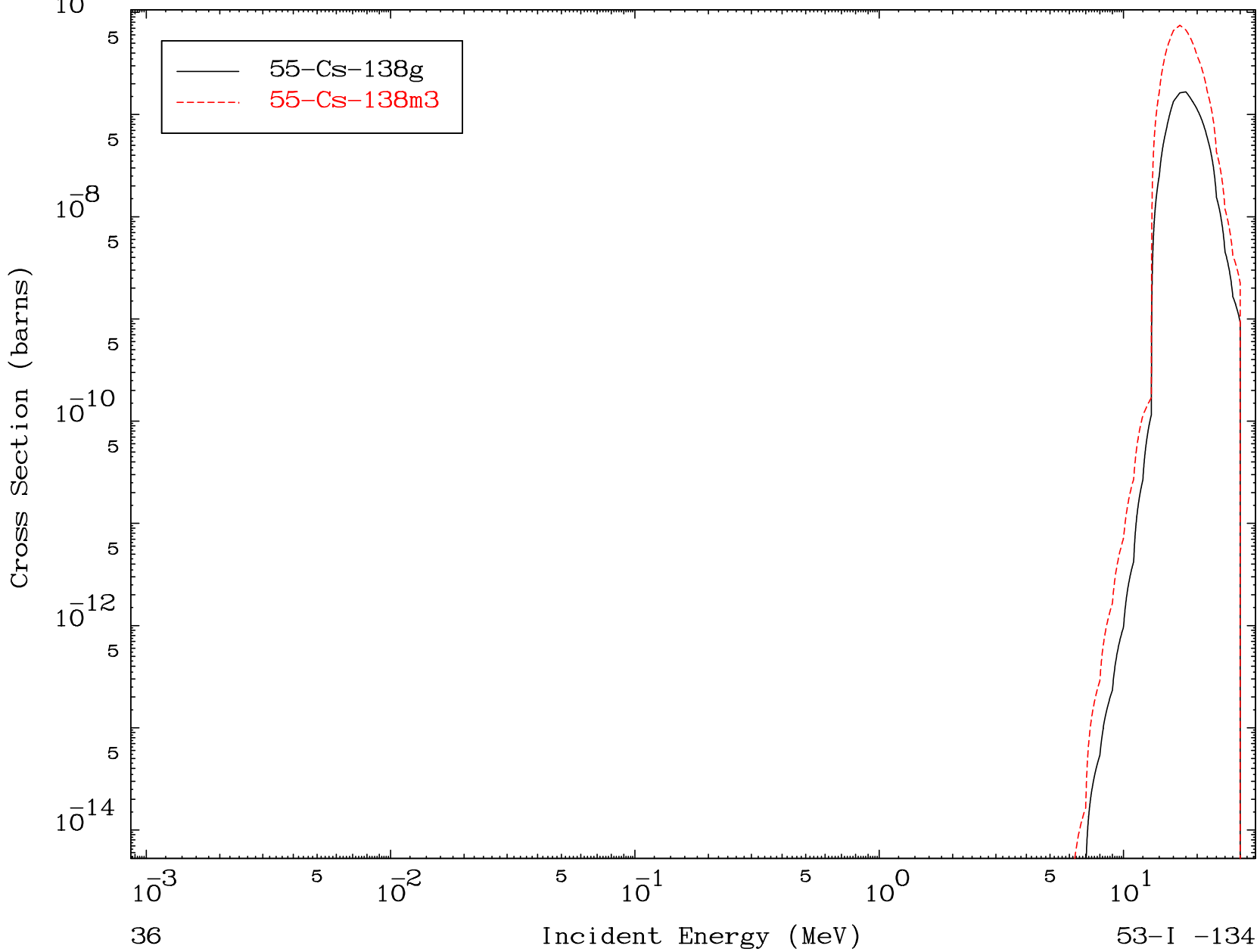

MAT 5347
(α,n') He-3
53-I -134
Radionuclide Production Cross Section
53-I -134g
53-I -134m5
Cross Section (barns)
10⁻¹⁰
10⁻¹²
10⁻¹⁴
10⁻¹⁶
5
22
24
26
28
30
32
Incident Energy (MeV)
53-I -134


MAT 5347
(α,4n)
53-I -134
Radionuclide Production Cross Section
55-Cs-134g
55-Cs-134m3
Cross Section (barns)
Incident Energy (MeV)
27.5
28.0
28.5
29.0
29.5
30.0
33
53-I -134

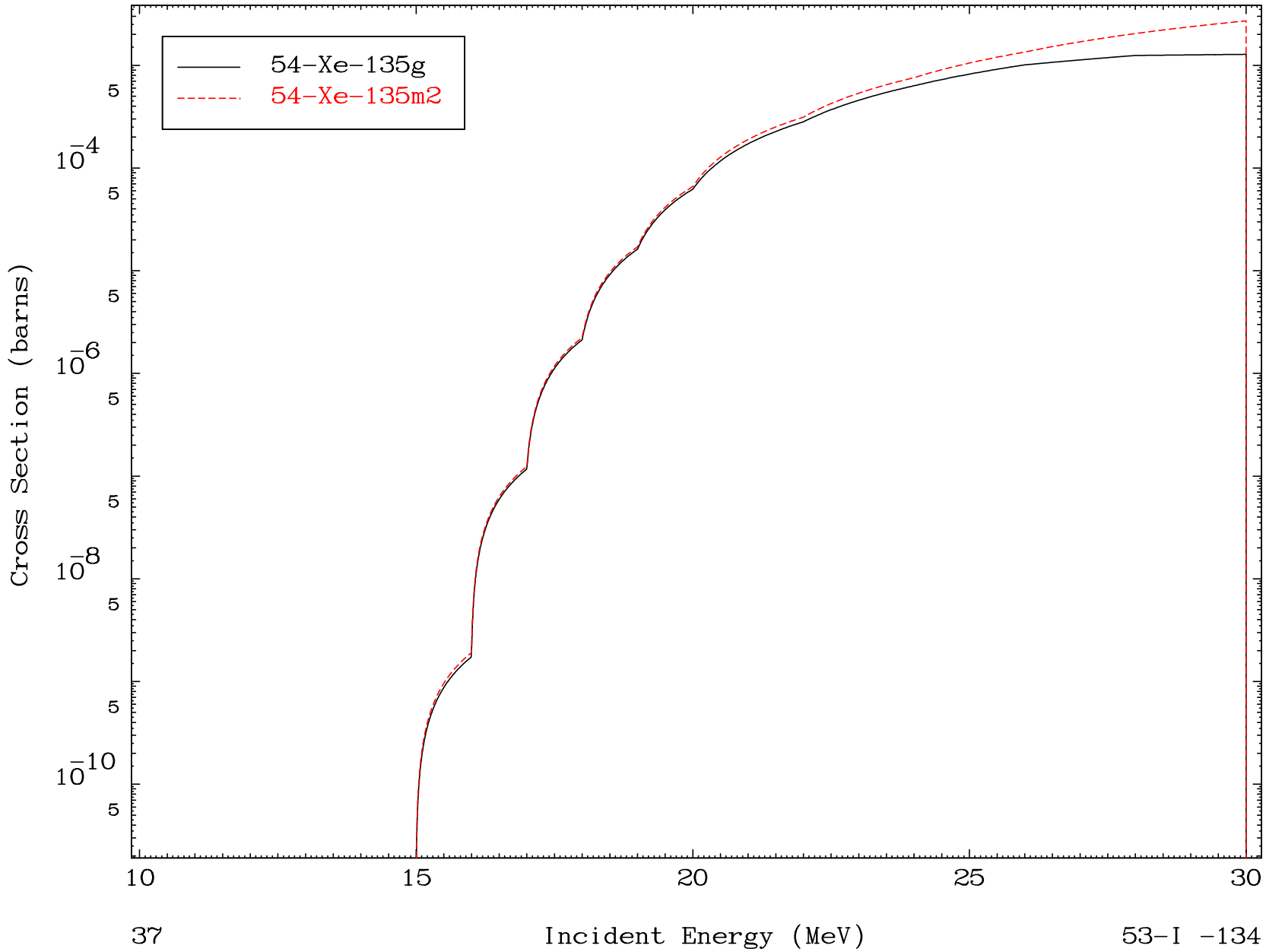

MAT 5347
(α,2n) p
53-I -134
Radionuclide Production Cross Section
54-Xe-135g
54-Xe-135m2
Cross Section (barns)
Incident Energy (MeV)
34
53-I -134

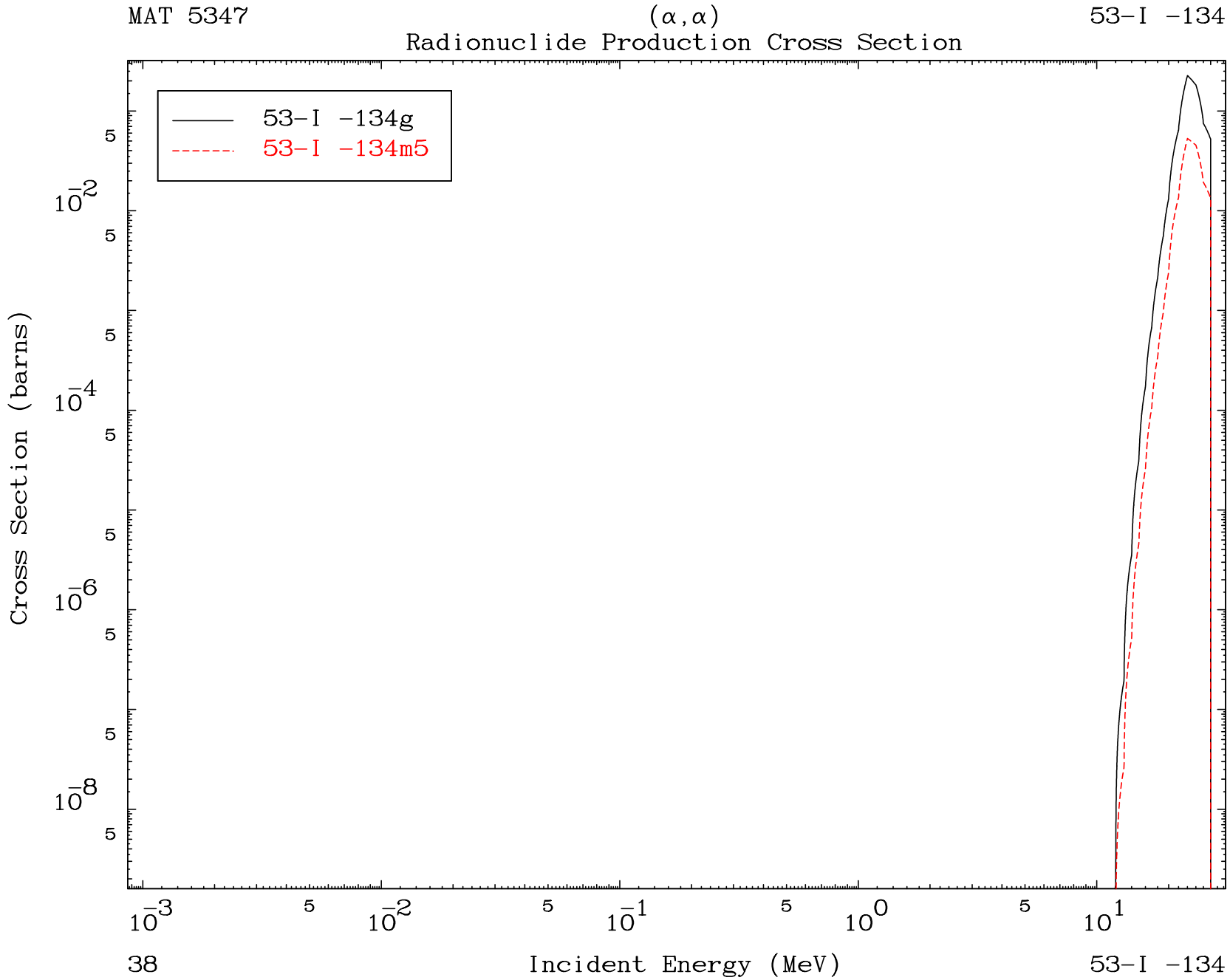

MAT 5347
(α,3n) p
53-I -134
Radionuclide Production Cross Section
54-Xe-134g
54-Xe-134m7
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
26
27
28
29
30
35
Incident Energy (MeV)
53-I -134

Radionuclide Production Cross Section

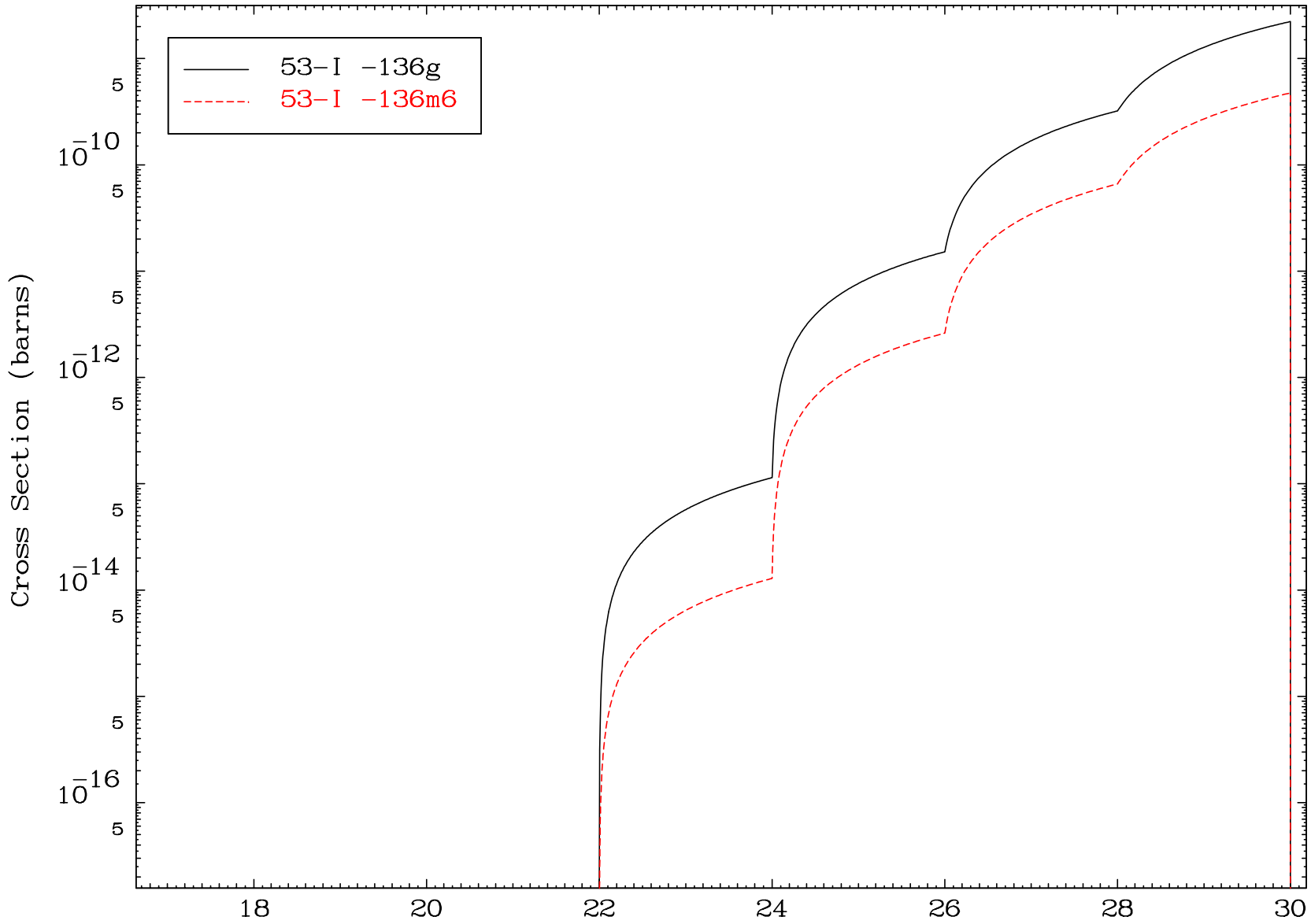


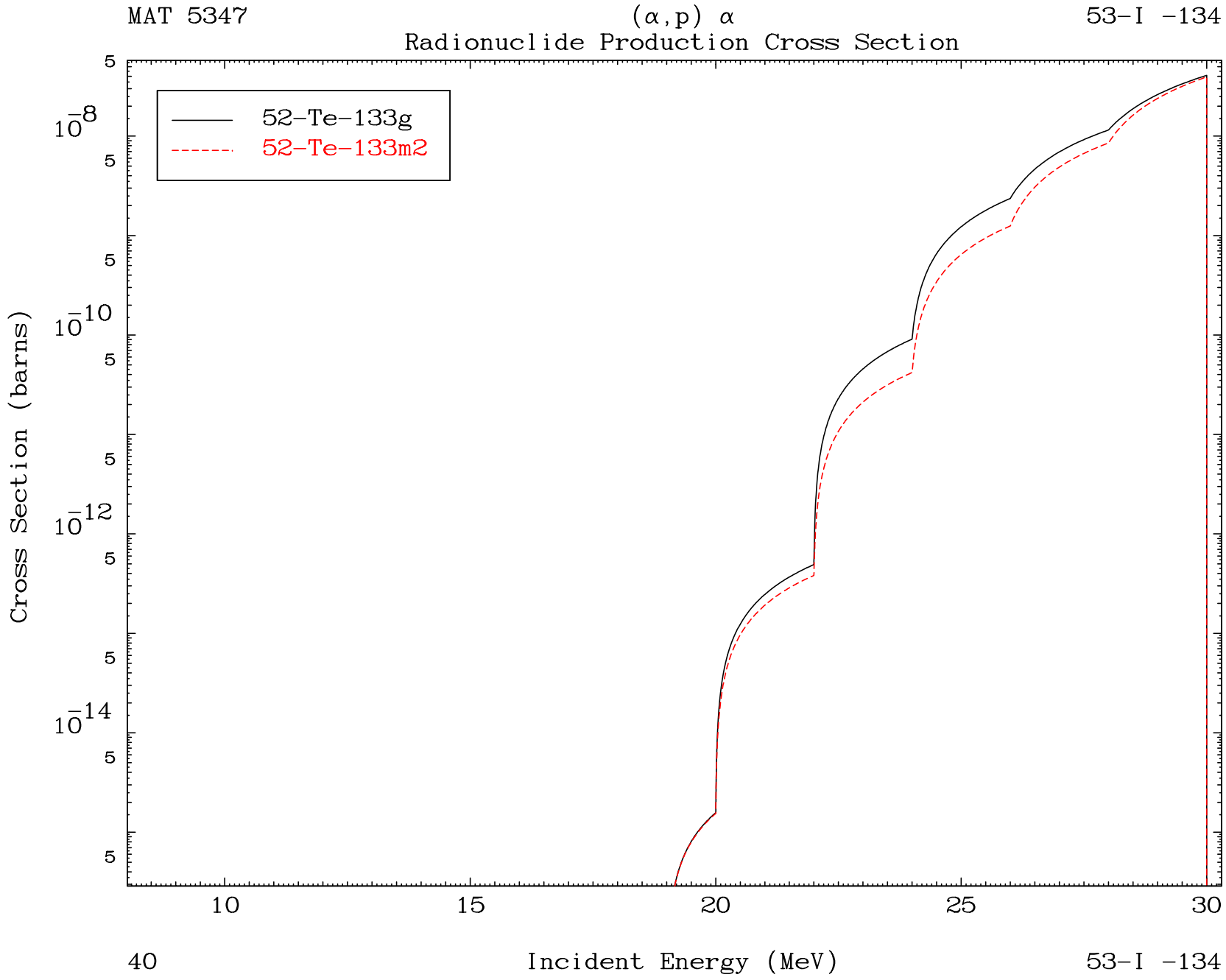
Radionuclide Production Cross Section




MAT 5347
(α,α)
53-I -134
Radionuclide Production Cross Section
53-I -134g
53-I -134m5
Cross Section (barns)
Incident Energy (MeV)
38
53-I -134

Radionuclide Production Cross Section




MAT 5347
(α,p) α
53-I -134
Radionuclide Production Cross Section
52-Te-133g
52-Te-133m2
Cross Section (barns)
Incident Energy (MeV)
10
15
20
25
30
40
53-I -134