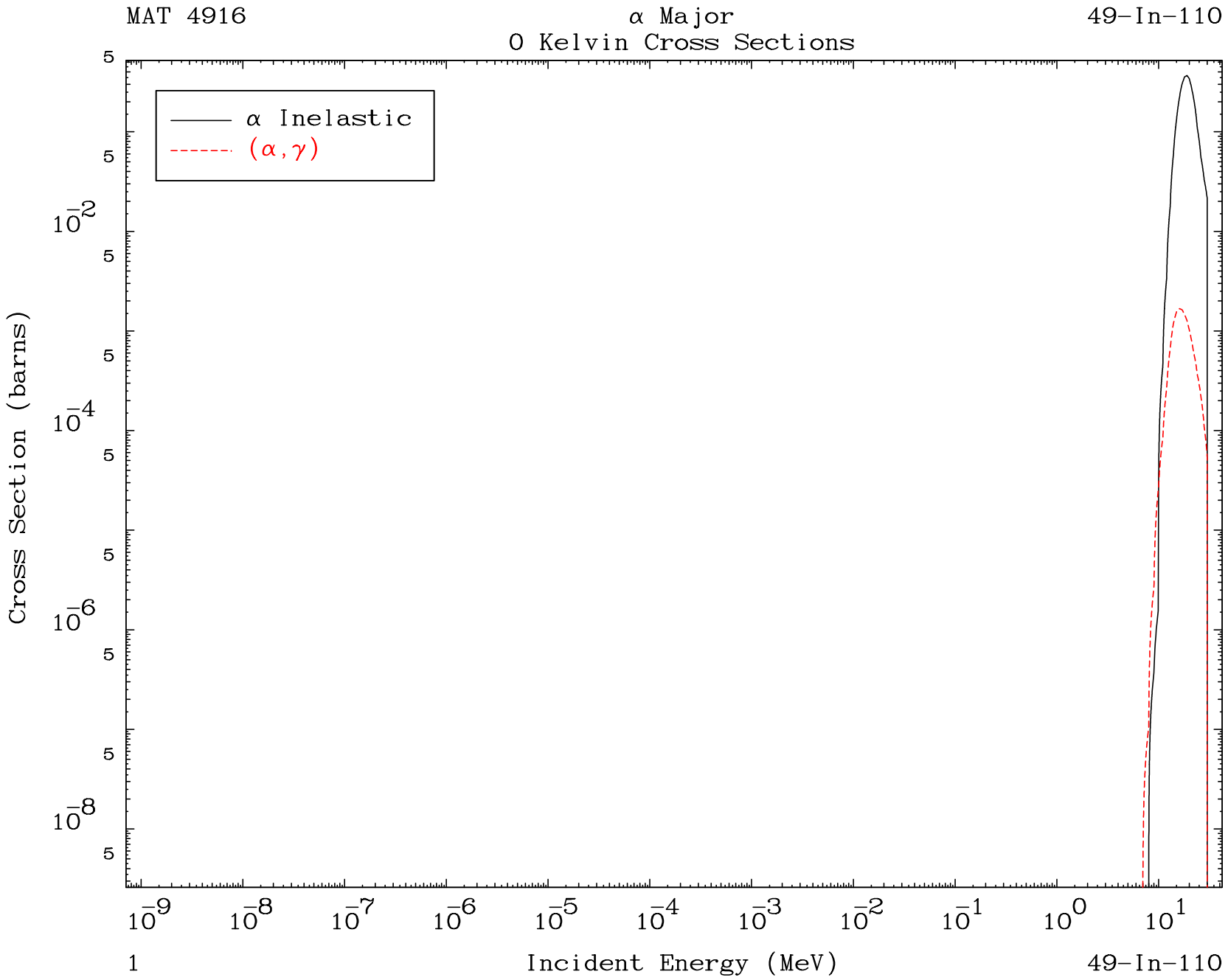
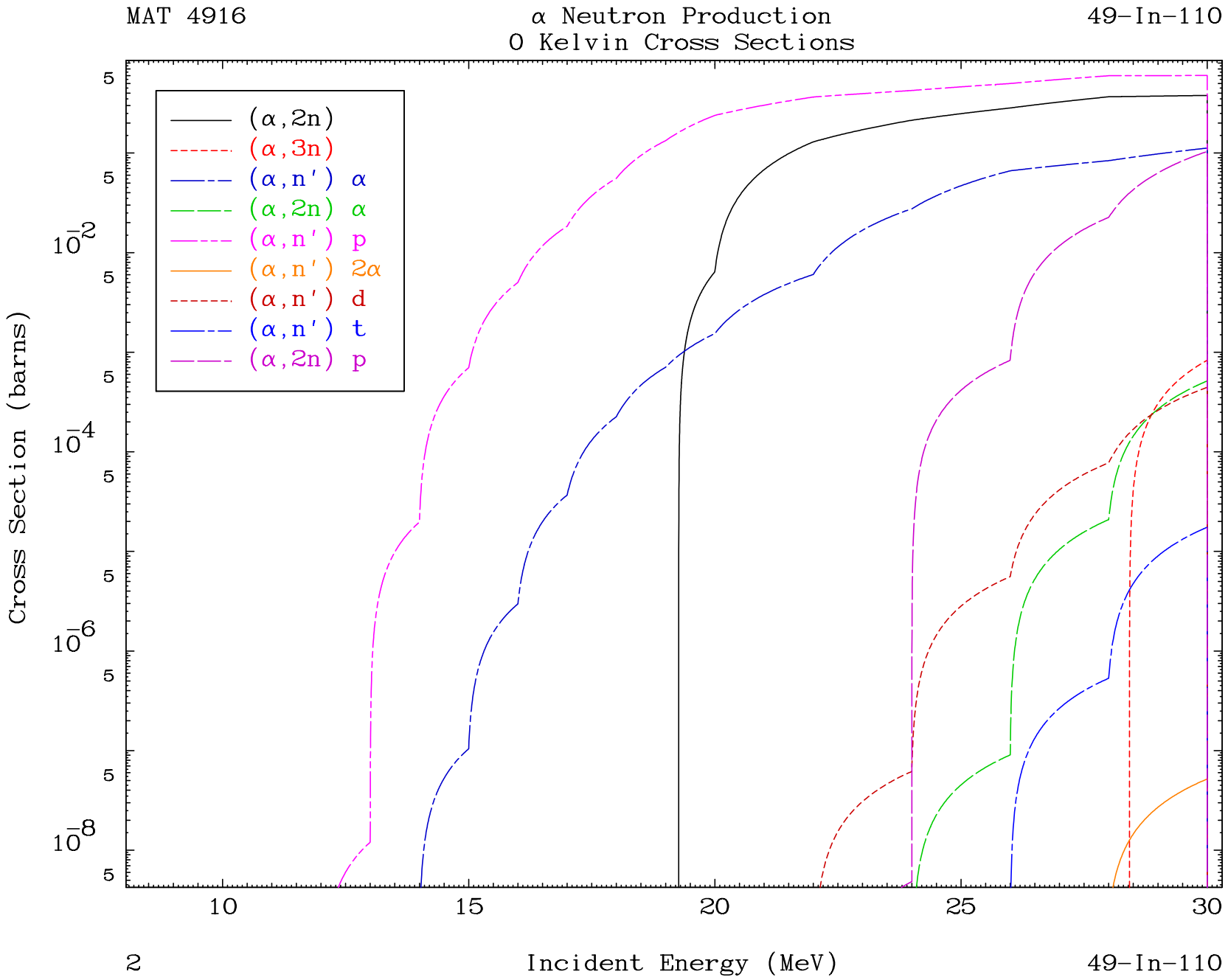
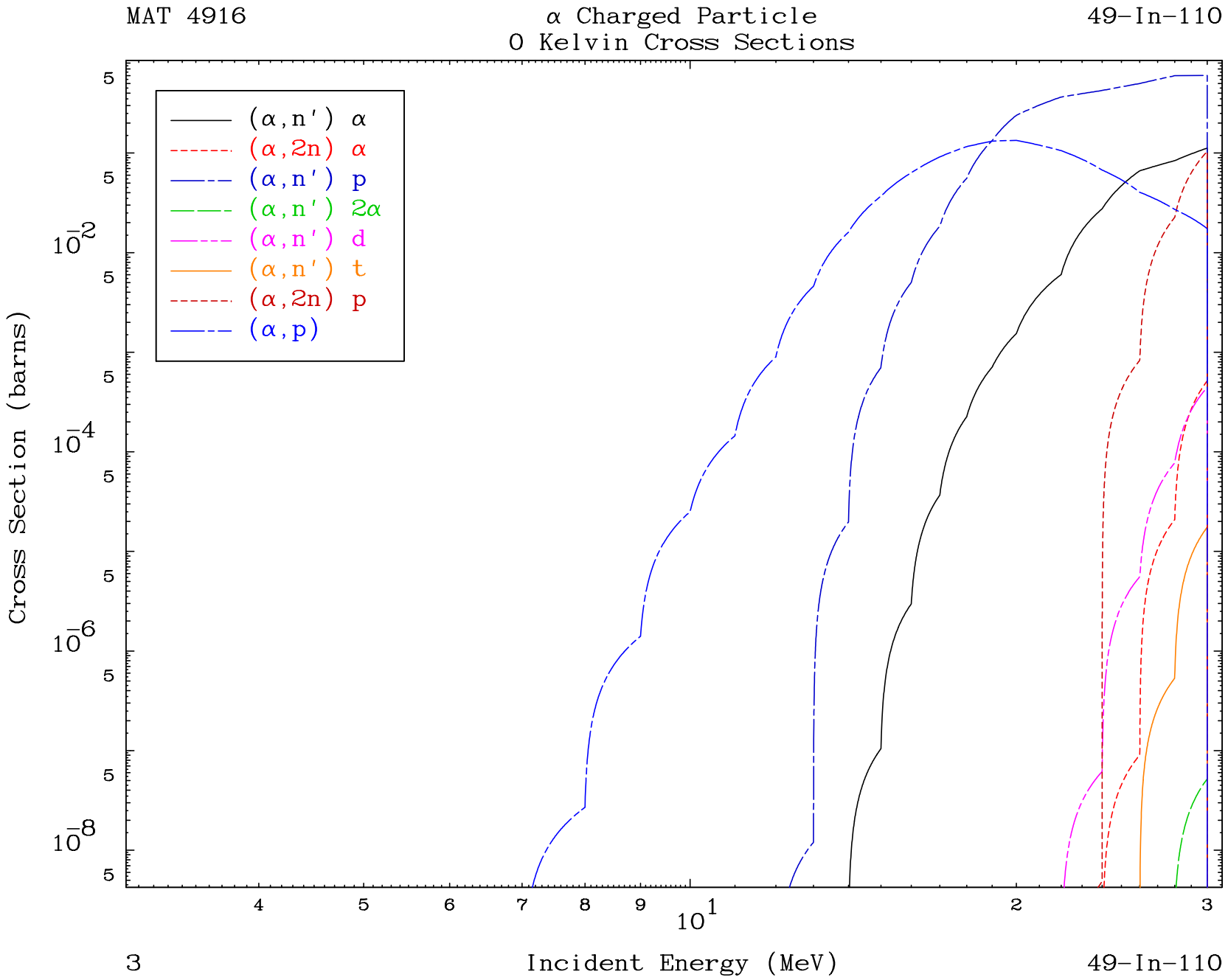
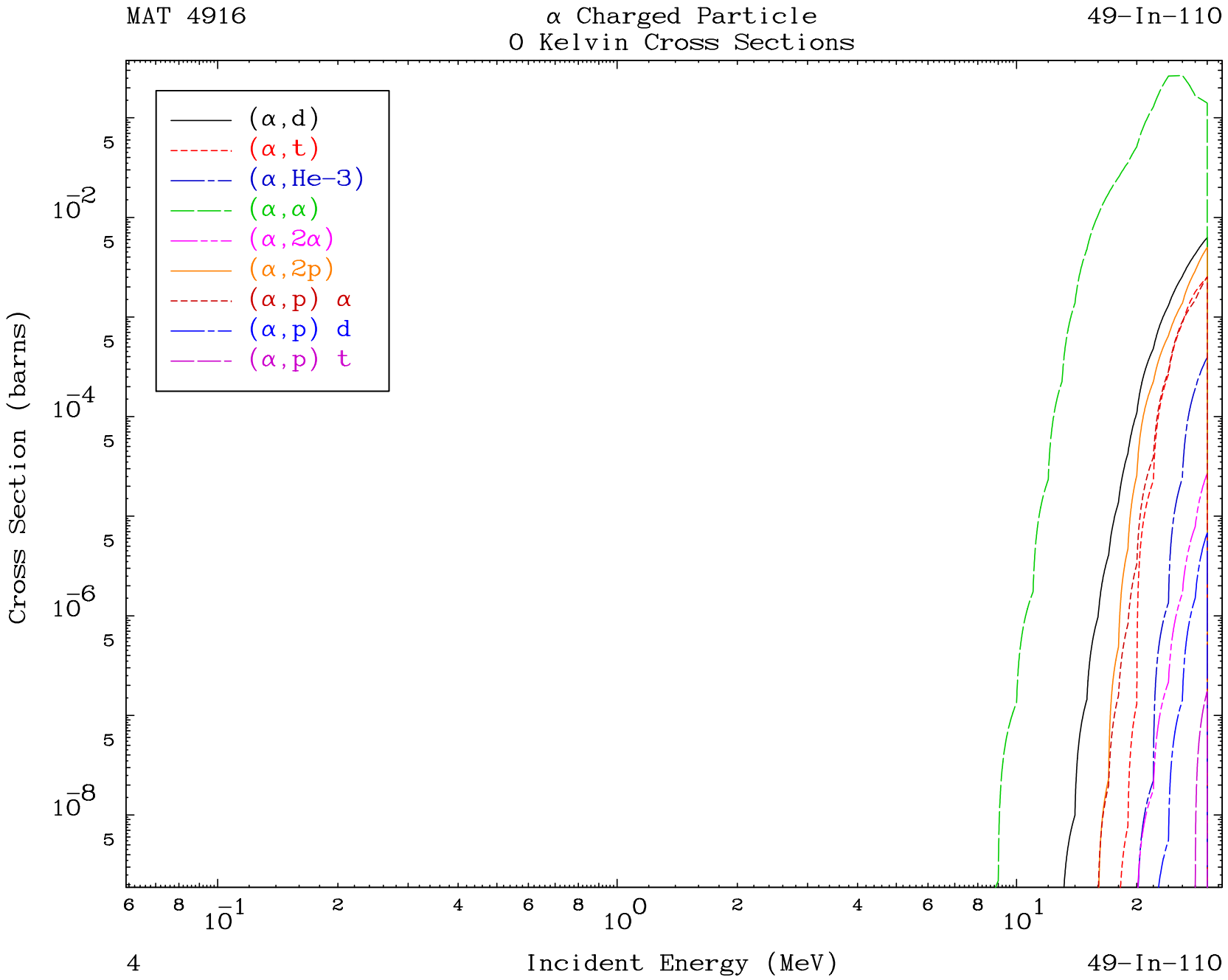
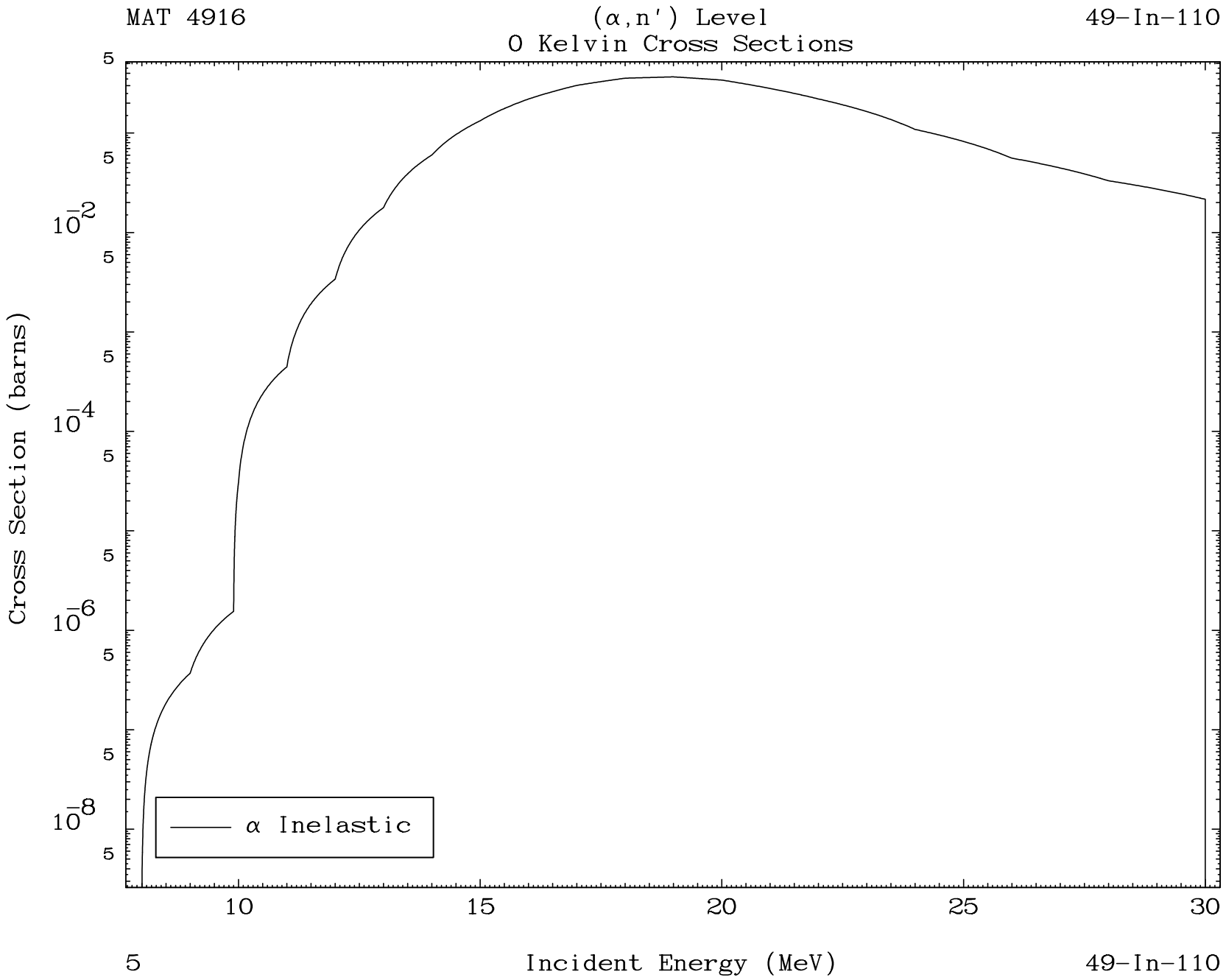
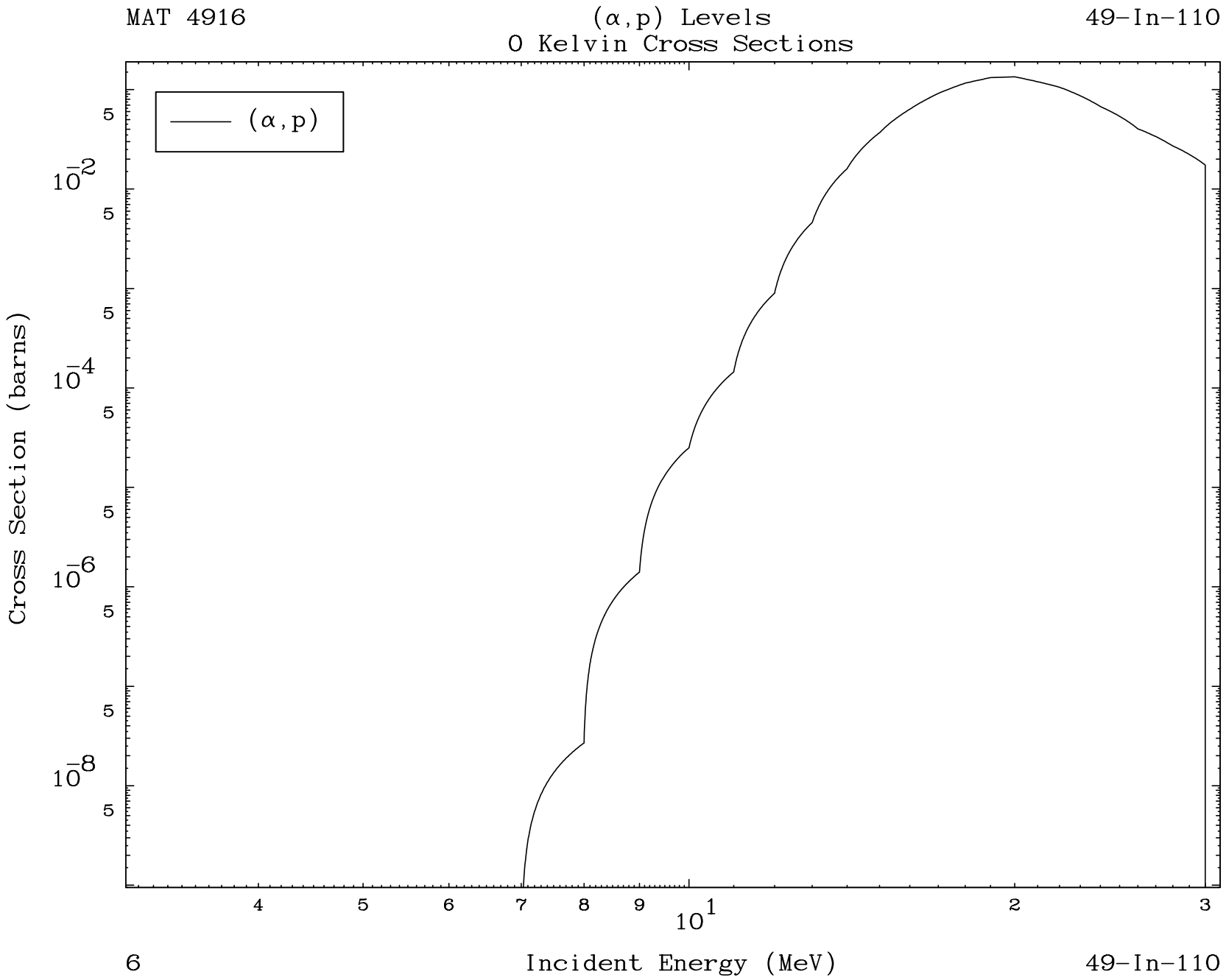

MAT 4916
α Major
49-In-110
0 Kelvin Cross Sections
α Inelastic
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
49-In-110

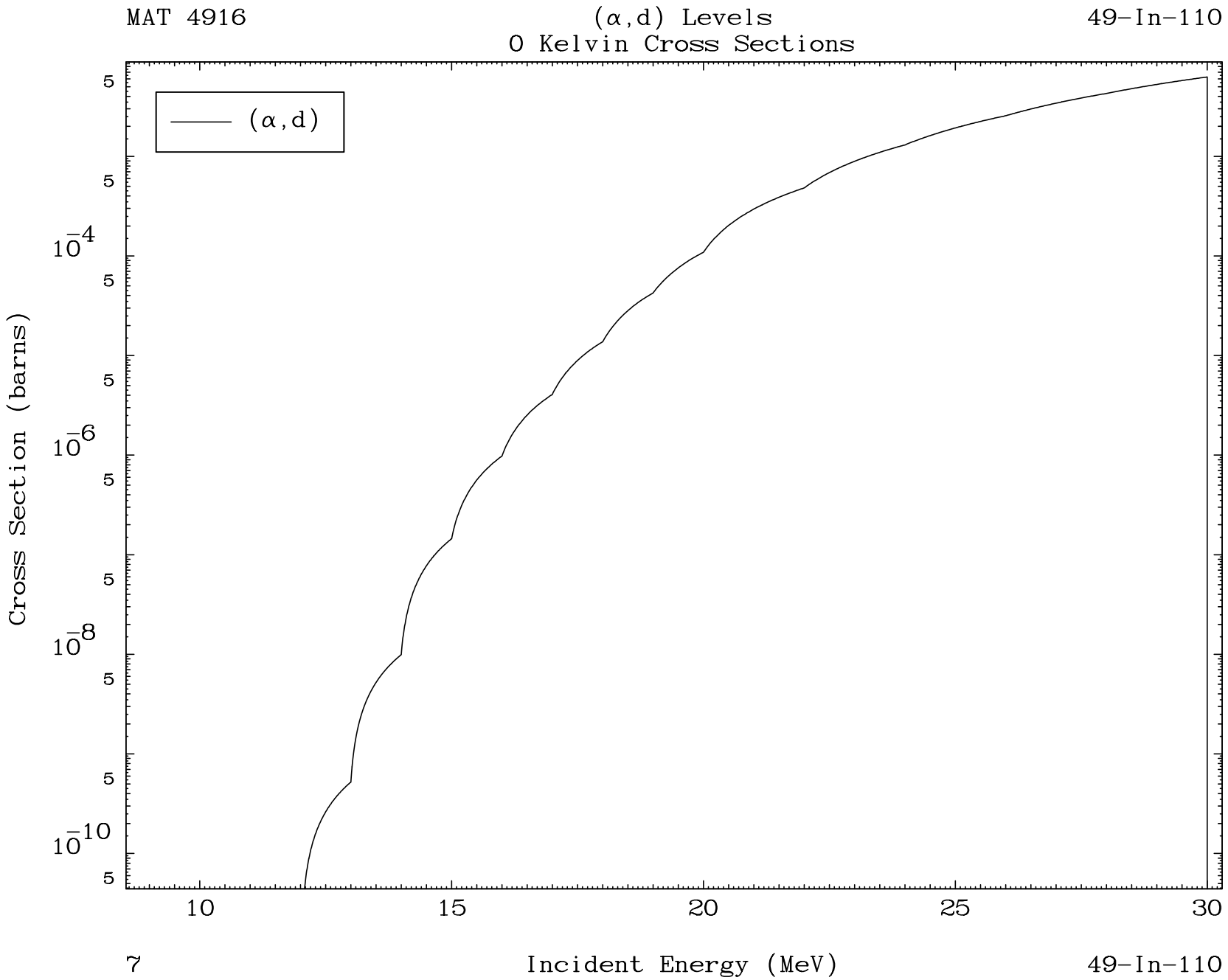

MAT 4916
α Neutron Production
0 Kelvin Cross Sections
49-In-110
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,n') p
(α,n') 2α
(α,n') d
(α,n') t
(α,2n) p
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10
15
20
25
30
2
Incident Energy (MeV)
49-In-110

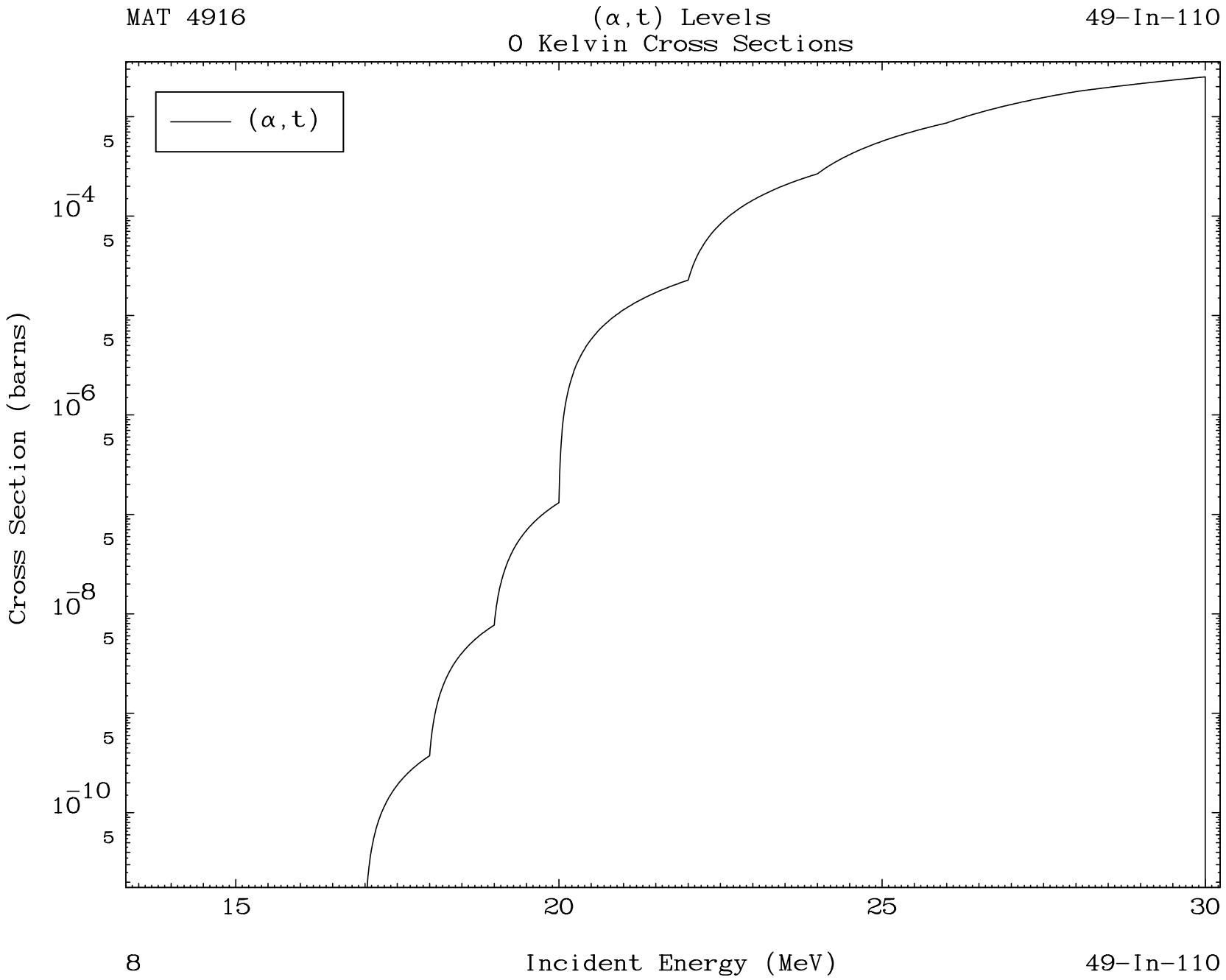

MAT 4916
α Charged Particle
0 Kelvin Cross Sections
49-In-110
(α,n') α
(α,2n) α
(α,n') p
(α,n') 2α
(α,n') d
(α,n') t
(α,2n) p
(α,p)
Cross Section (barns)
Incident Energy (MeV)
3
49-In-110

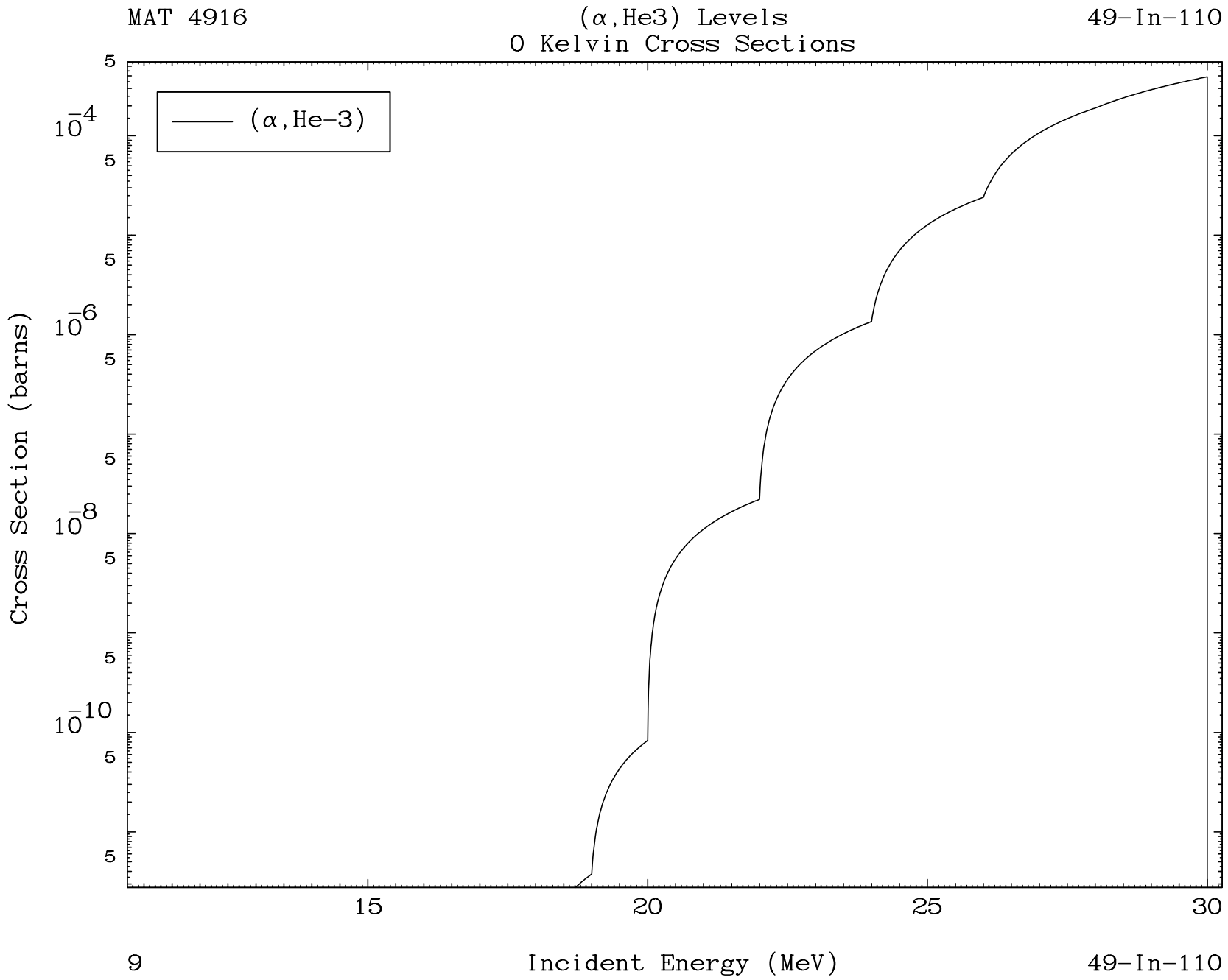

MAT 4916
α Charged Particle
0 Kelvin Cross Sections
49-In-110
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
(α,p) t
Cross Section (barns)
Incident Energy (MeV)
49-In-110
4

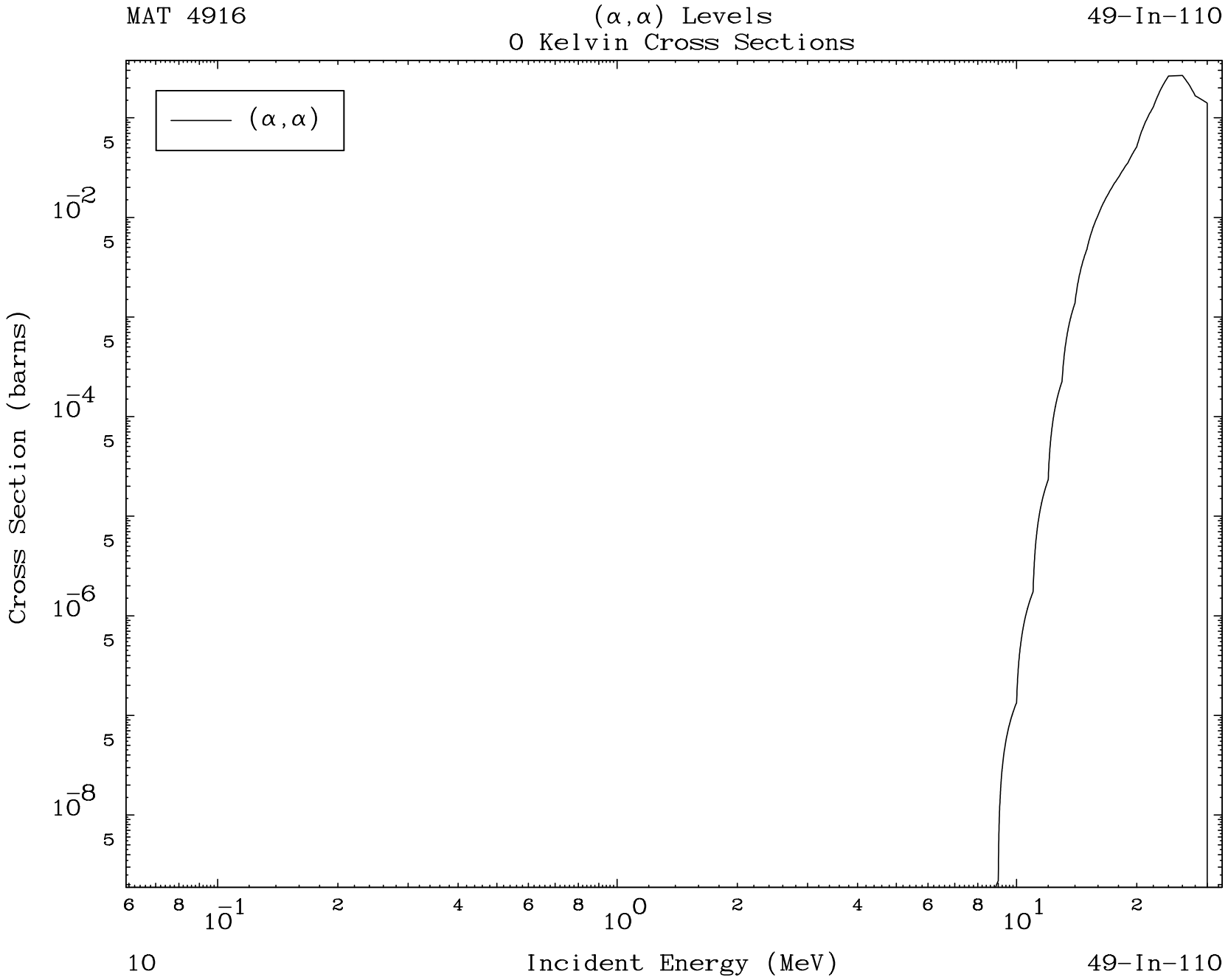

MAT 4916
(α,n') Level
49-In-110
0 Kelvin Cross Sections
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10
15
20
25
30
α Inelastic
Incident Energy (MeV)
49-In-110

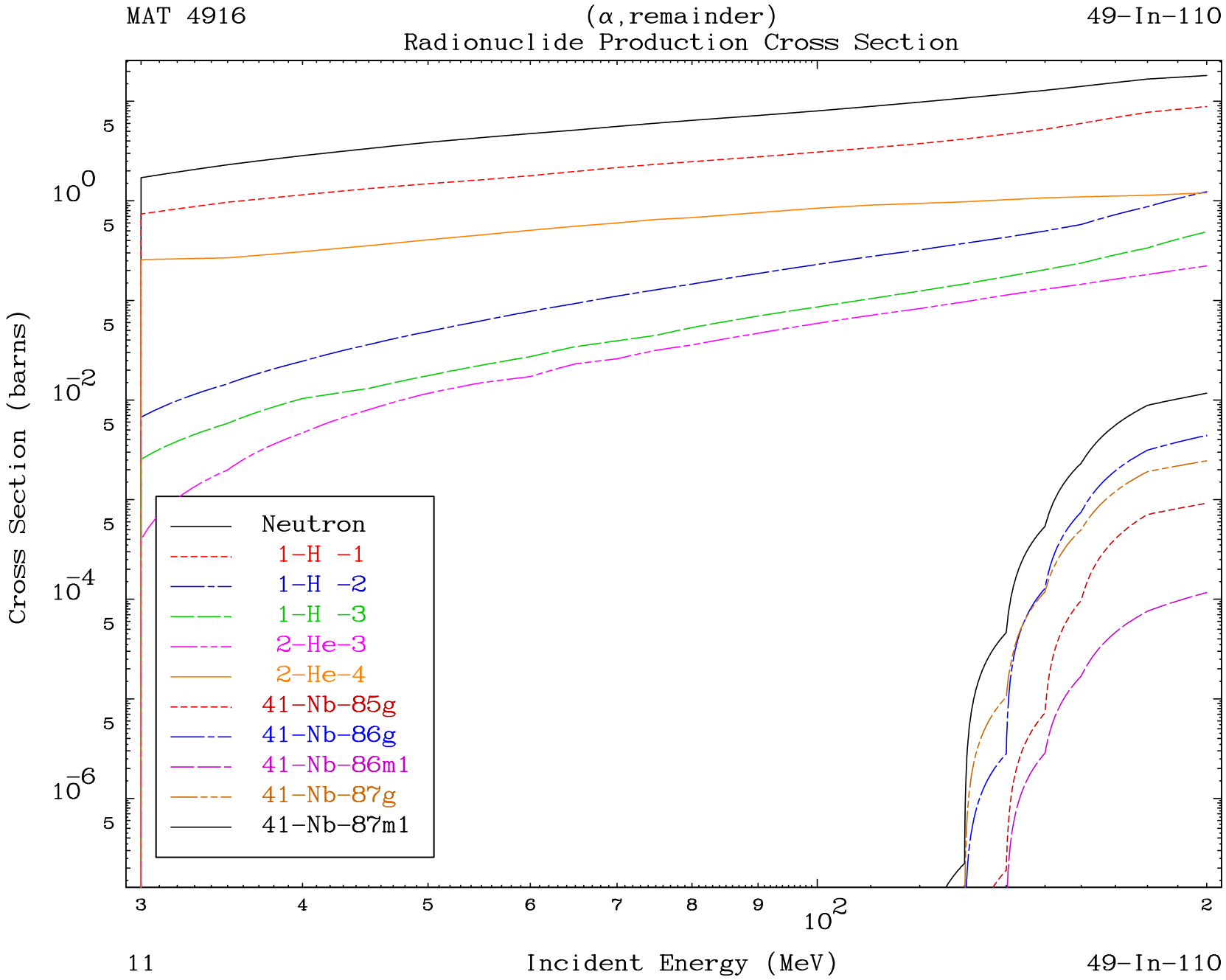

MAT 4916
(α,p) Levels
49-In-110
0 Kelvin Cross Sections
(α,p)
Cross Section (barns)
10-2
10-4
10-6
10-8
5
4
6
7
8
9
101
2
3
Incident Energy (MeV)
6
49-In-110

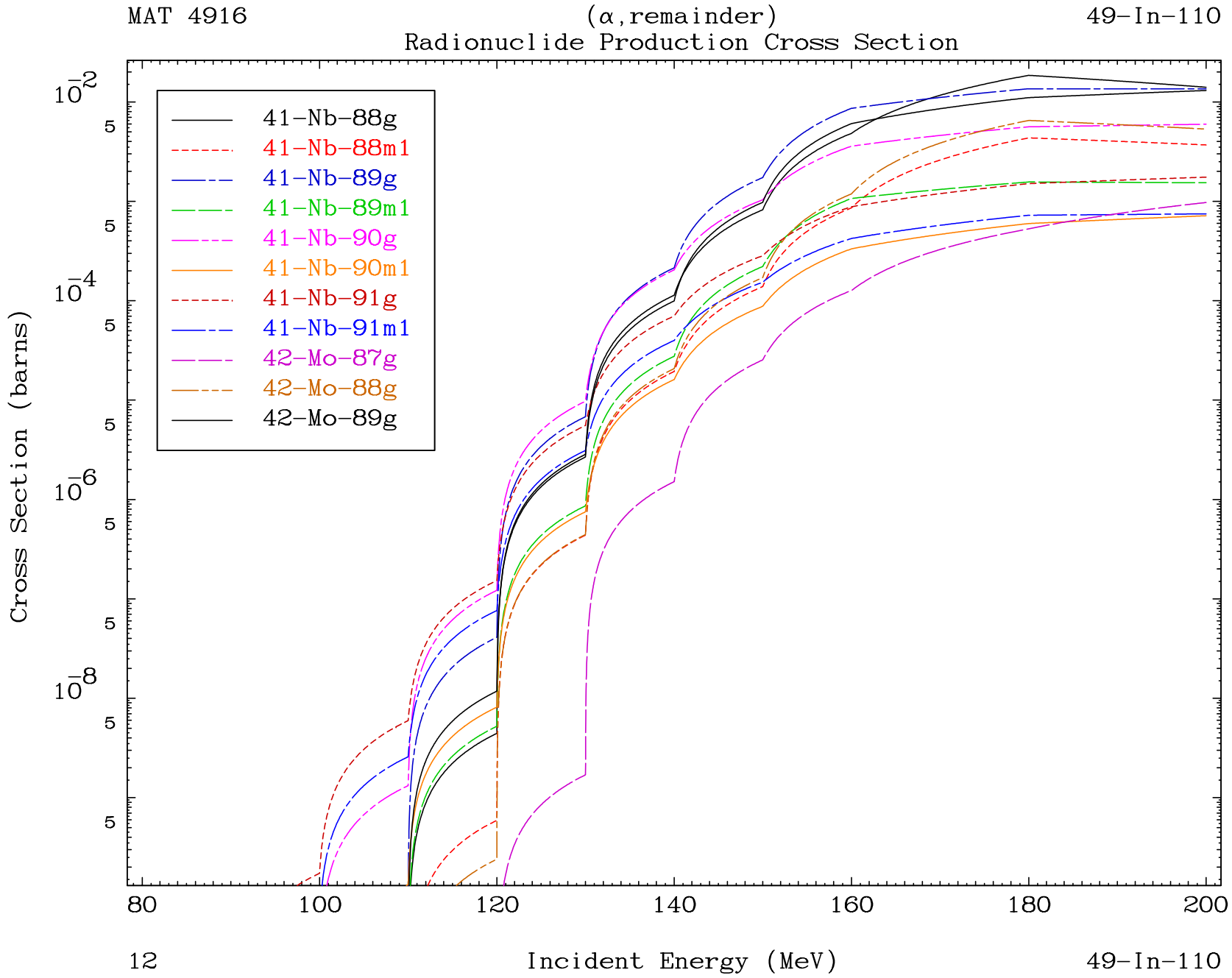

MAT 4916
(α,d) Levels
49-In-110
0 Kelvin Cross Sections
(α,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10
15
20
25
30
Incident Energy (MeV)
7
49-In-110

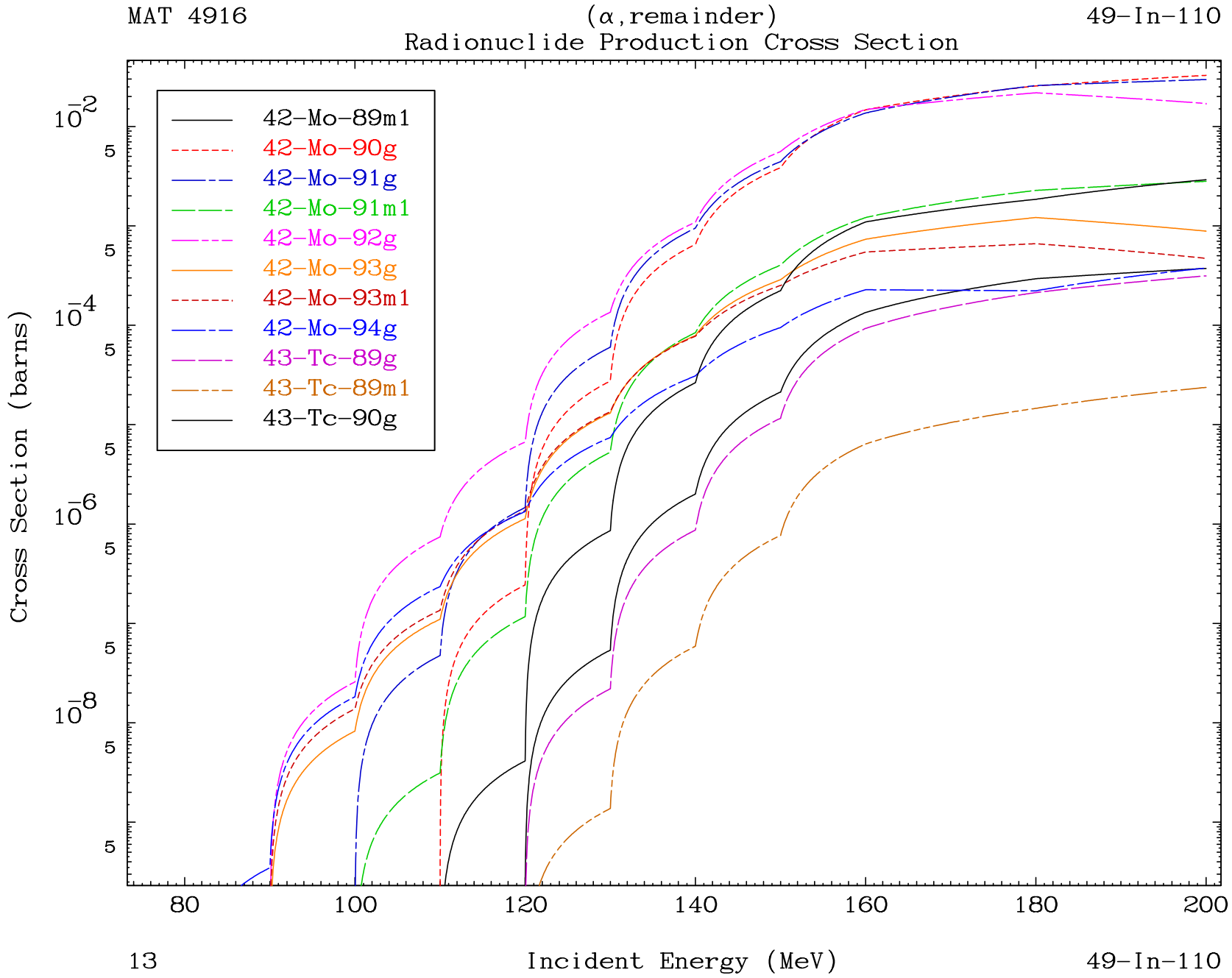

MAT 4916
(α,t) Levels
49-In-110
0 Kelvin Cross Sections
(α,t)
Cross Section (barns)
10-4
10-6
10-8
10-10
5
15
20
25
30
8
Incident Energy (MeV)
49-In-110

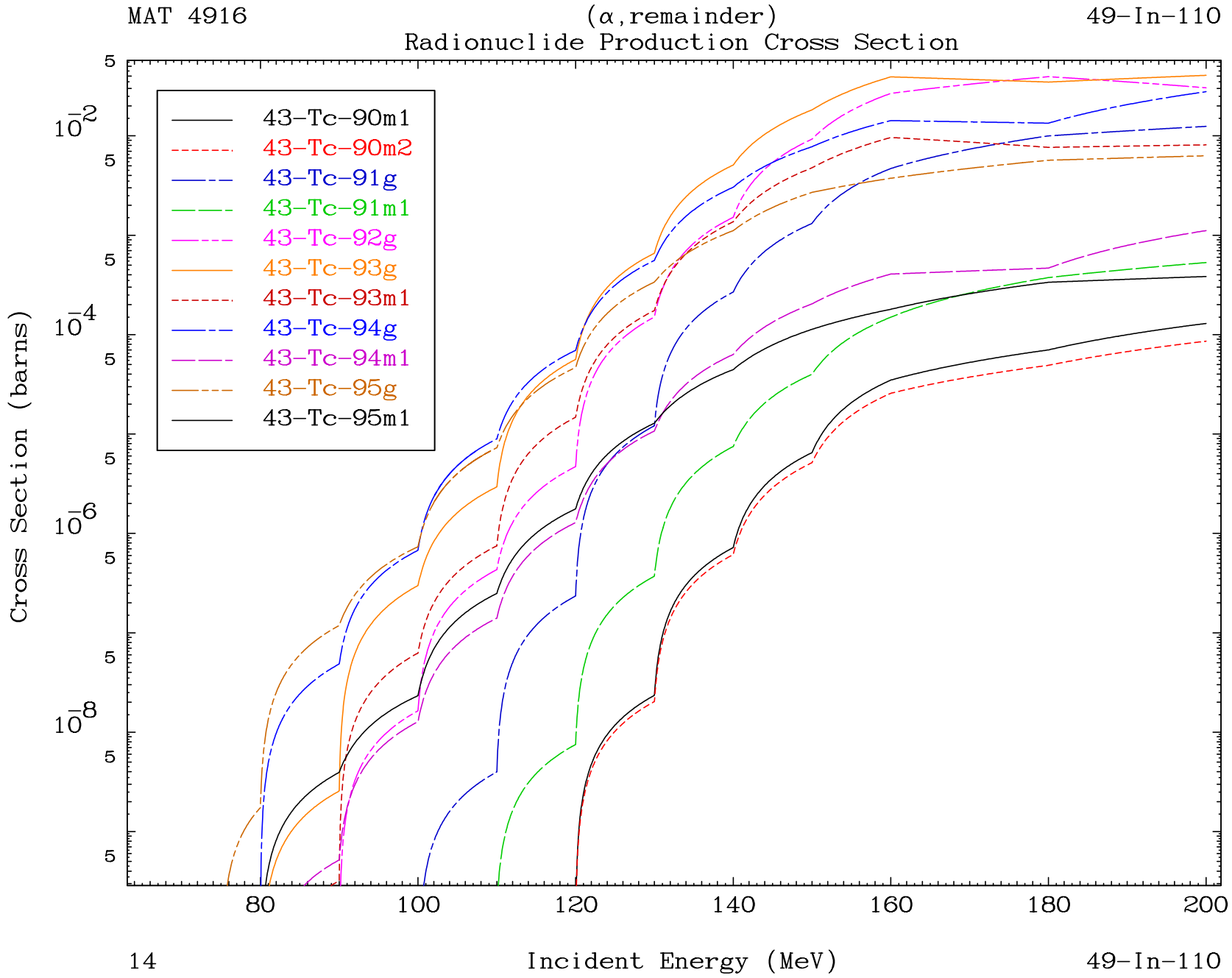

MAT 4916
(α,He3) Levels
49-In-110
0 Kelvin Cross Sections
(α,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
15
20
25
30
9
Incident Energy (MeV)
49-In-110

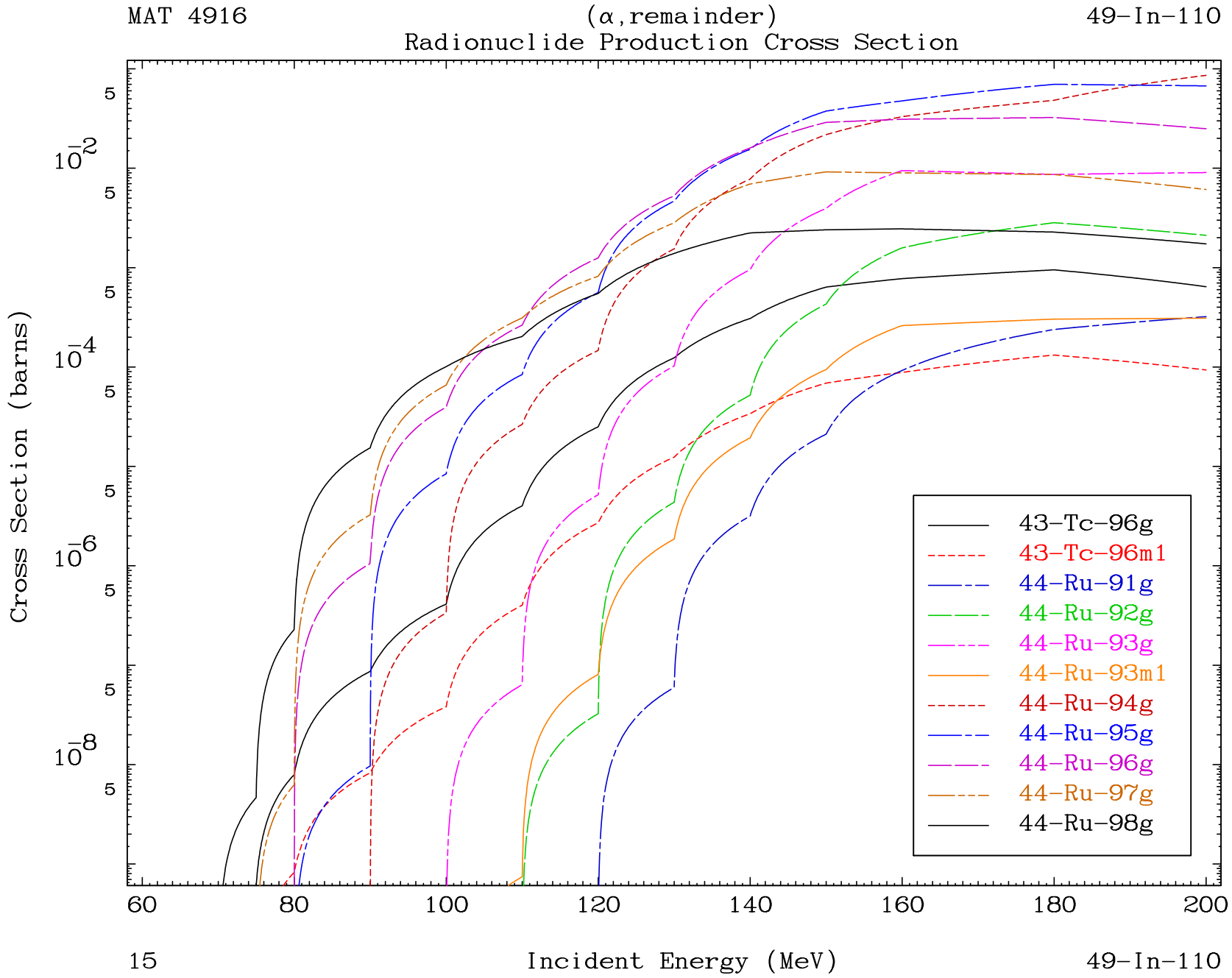

MAT 4916
(α,α) Levels
49-In-110
0 Kelvin Cross Sections
(α,α)
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-1
10^0
10^1
Incident Energy (MeV)
49-In-110

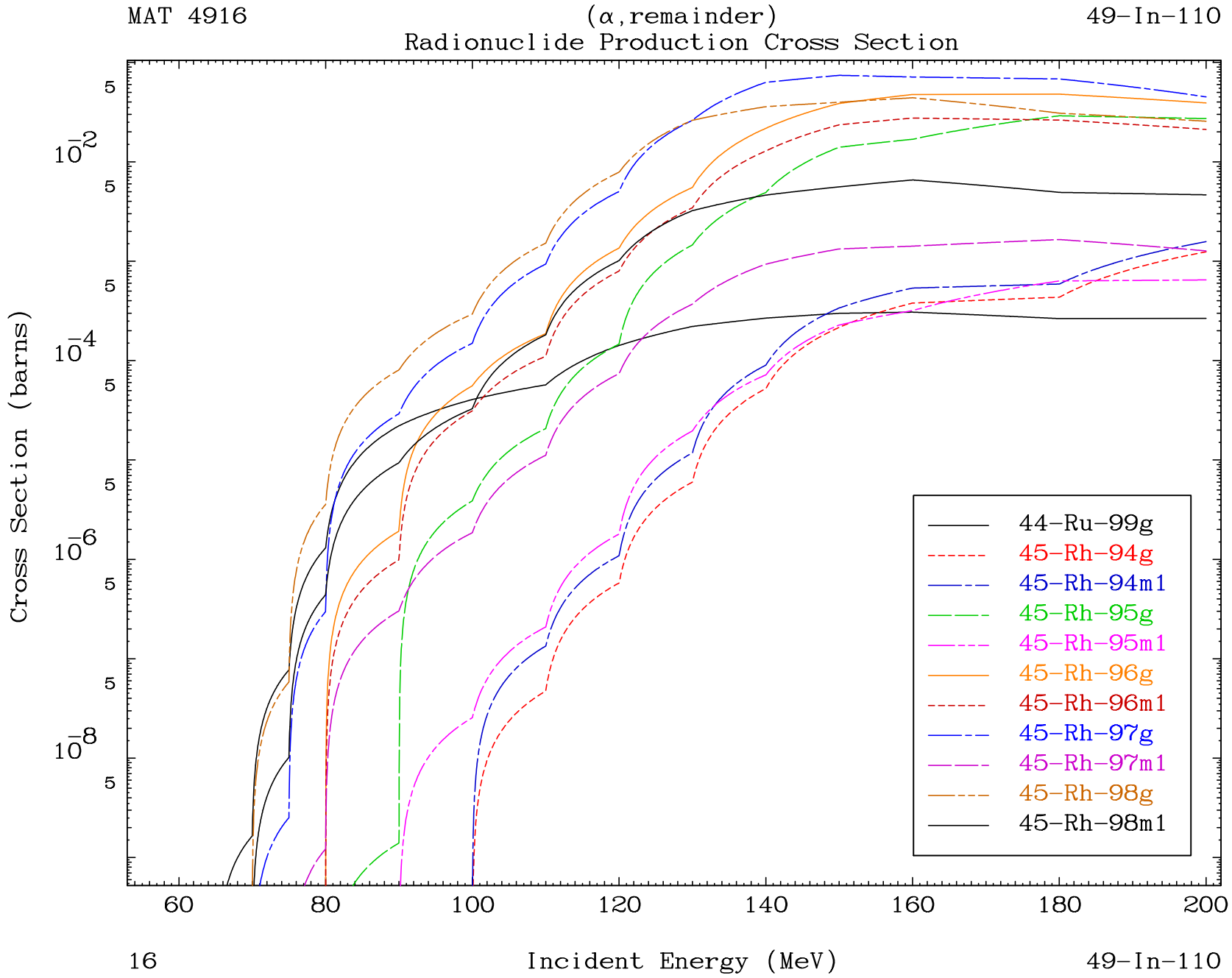

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
5
3
4
5
6
7
8
9
10^2
2
Neutron
1-H -1
1-H -2
1-H -3
2-He-3
2-He-4
41-Nb-85g
41-Nb-86g
41-Nb-86m1
41-Nb-87g
41-Nb-87m1
11
Incident Energy (MeV)
49-In-110

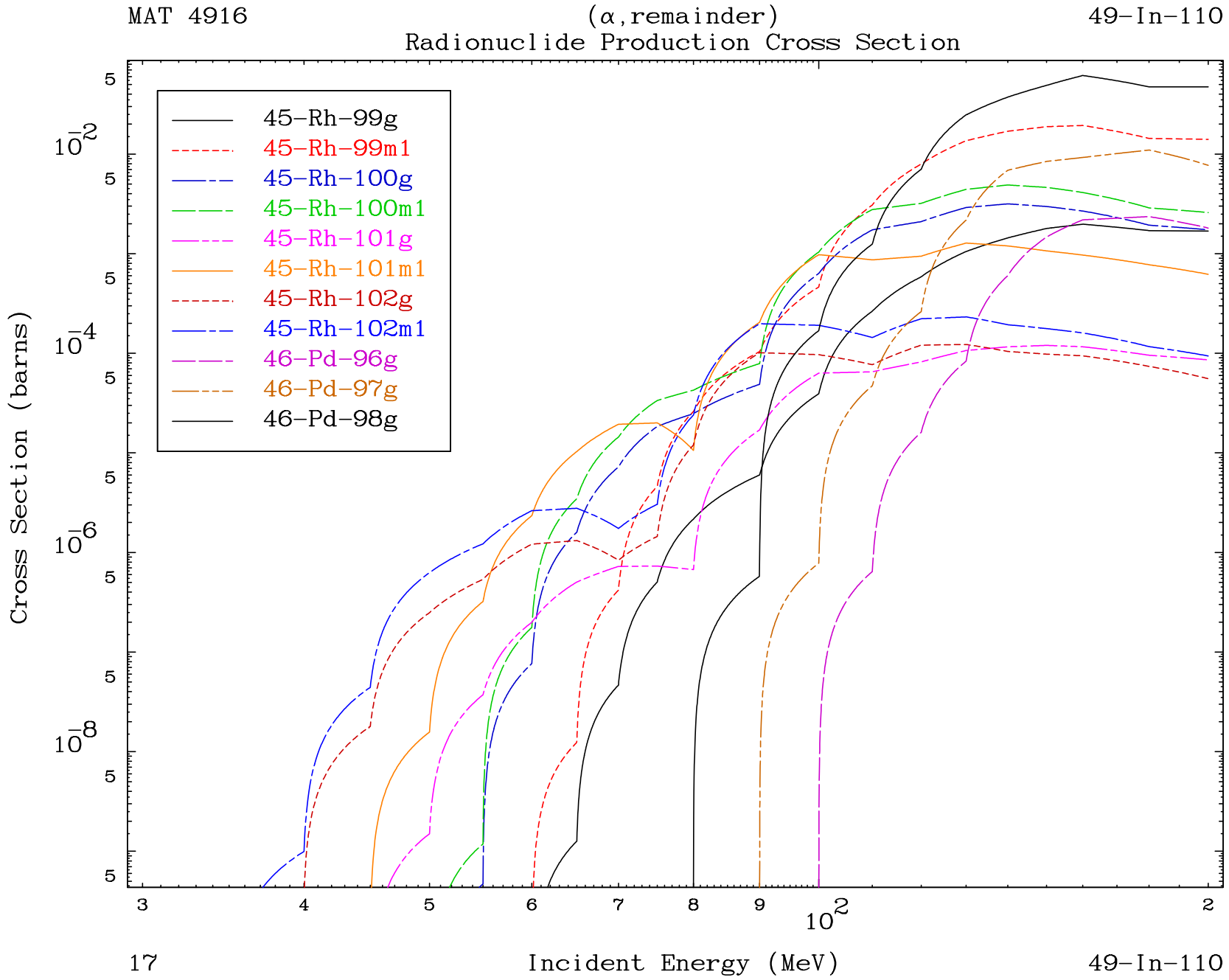

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
41-Nb-88g
41-Nb-88m1
41-Nb-89g
41-Nb-89m1
41-Nb-90g
41-Nb-90m1
41-Nb-91g
41-Nb-91m1
42-Mo-87g
42-Mo-88g
42-Mo-89g
Cross Section (barns)
10-2
10-4
10-6
10-8
5
80
100
120
140
160
180
200
12
Incident Energy (MeV)
49-In-110

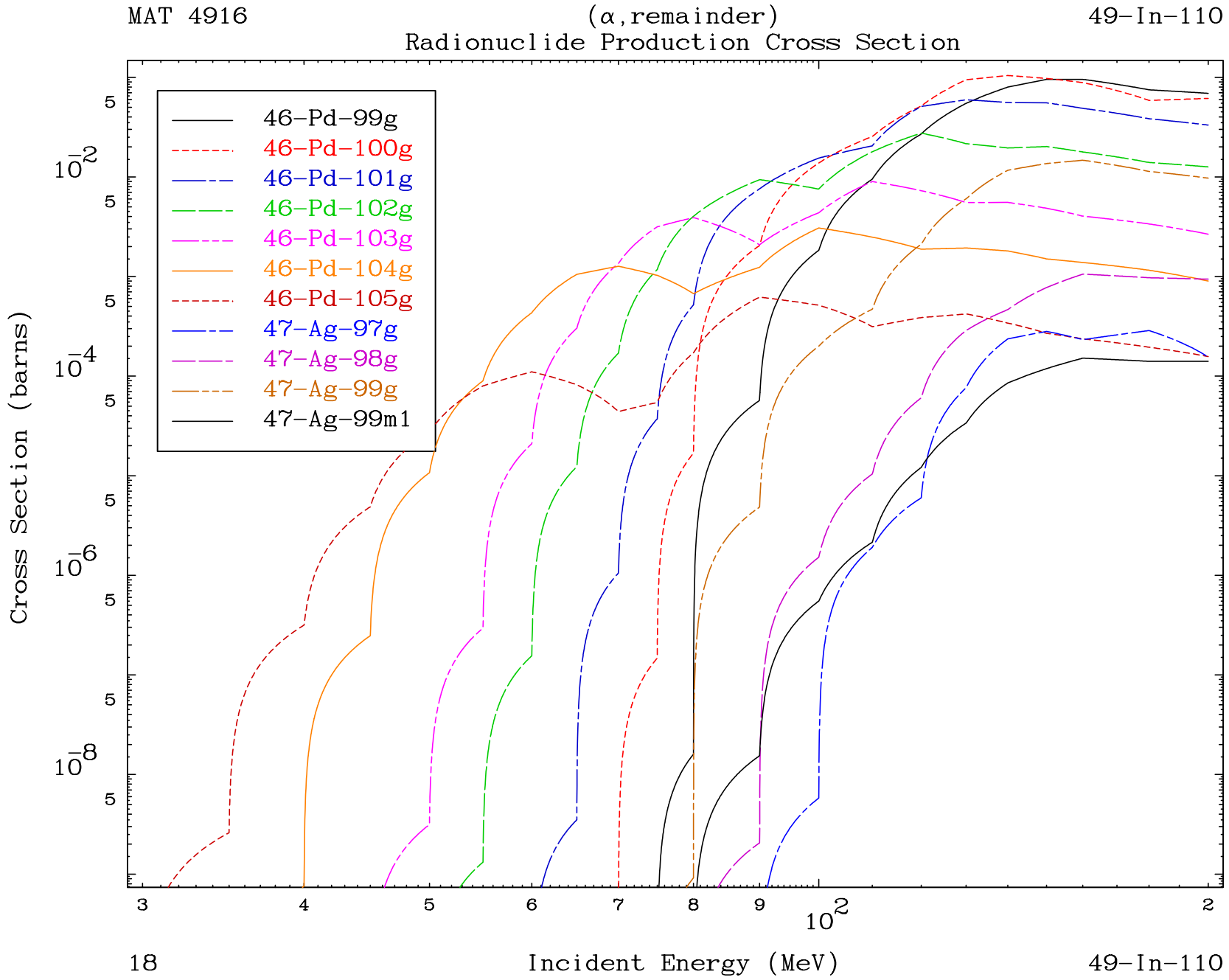

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
42-Mo-89m1
42-Mo-90g
42-Mo-91g
42-Mo-91m1
42-Mo-92g
42-Mo-93g
42-Mo-93m1
42-Mo-94g
43-Tc-89g
43-Tc-89m1
43-Tc-90g
Cross Section (barns)
10-2
10-4
10-6
10-8
5
80
100
120
140
160
180
200
13
Incident Energy (MeV)
49-In-110

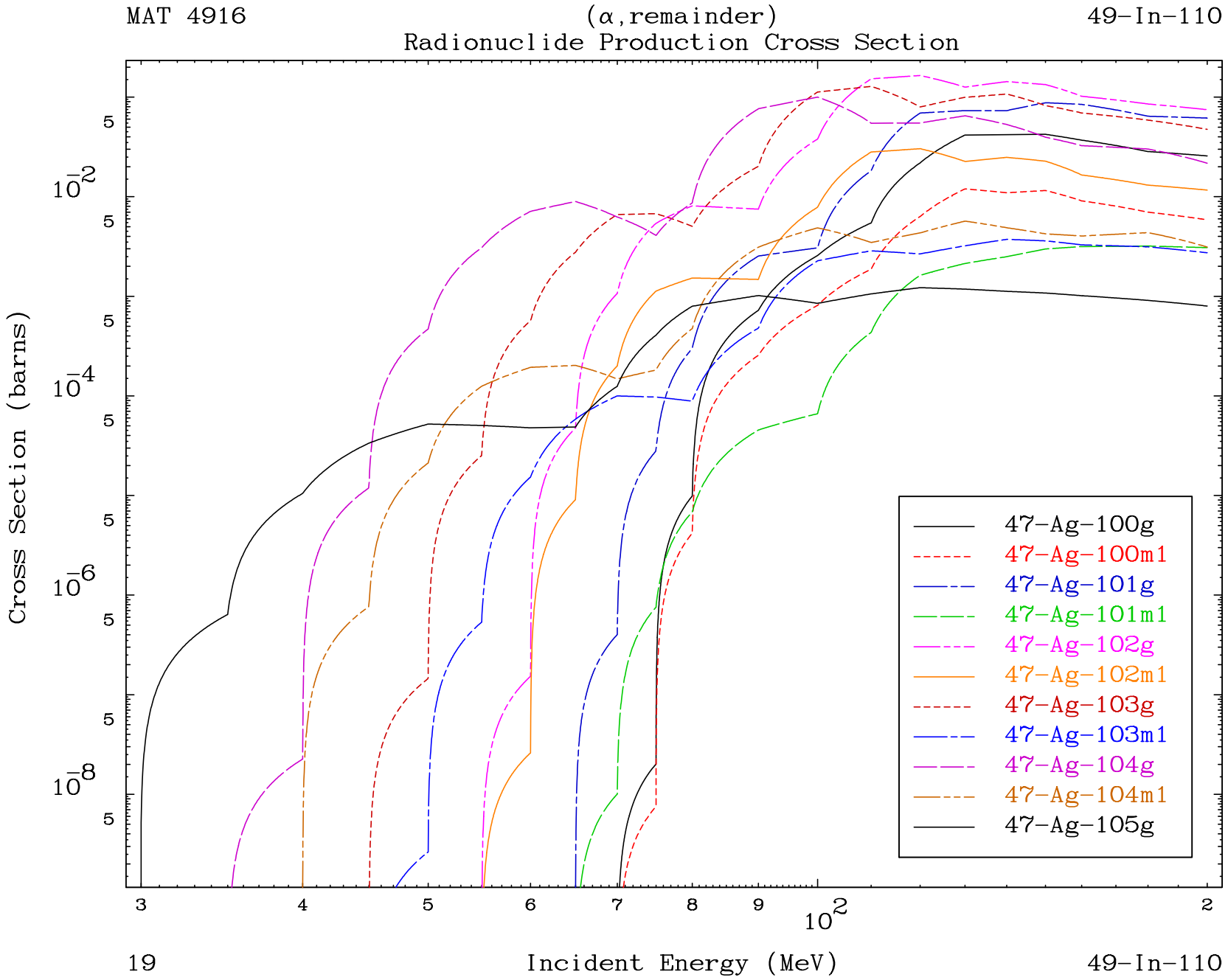

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
43-Tc-90m1
43-Tc-90m2
43-Tc-91g
43-Tc-91m1
43-Tc-92g
43-Tc-93g
43-Tc-93m1
43-Tc-94g
43-Tc-94m1
43-Tc-95g
43-Tc-95m1
Cross Section (barns)
10-2
10-4
10-6
10-8
80
100
120
140
160
180
200
14
Incident Energy (MeV)
49-In-110


MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
49-In-110
43-Tc-96g
43-Tc-96m1
44-Ru-91g
44-Ru-92g
44-Ru-93g
44-Ru-93m1
44-Ru-94g
44-Ru-95g
44-Ru-96g
44-Ru-97g
44-Ru-98g

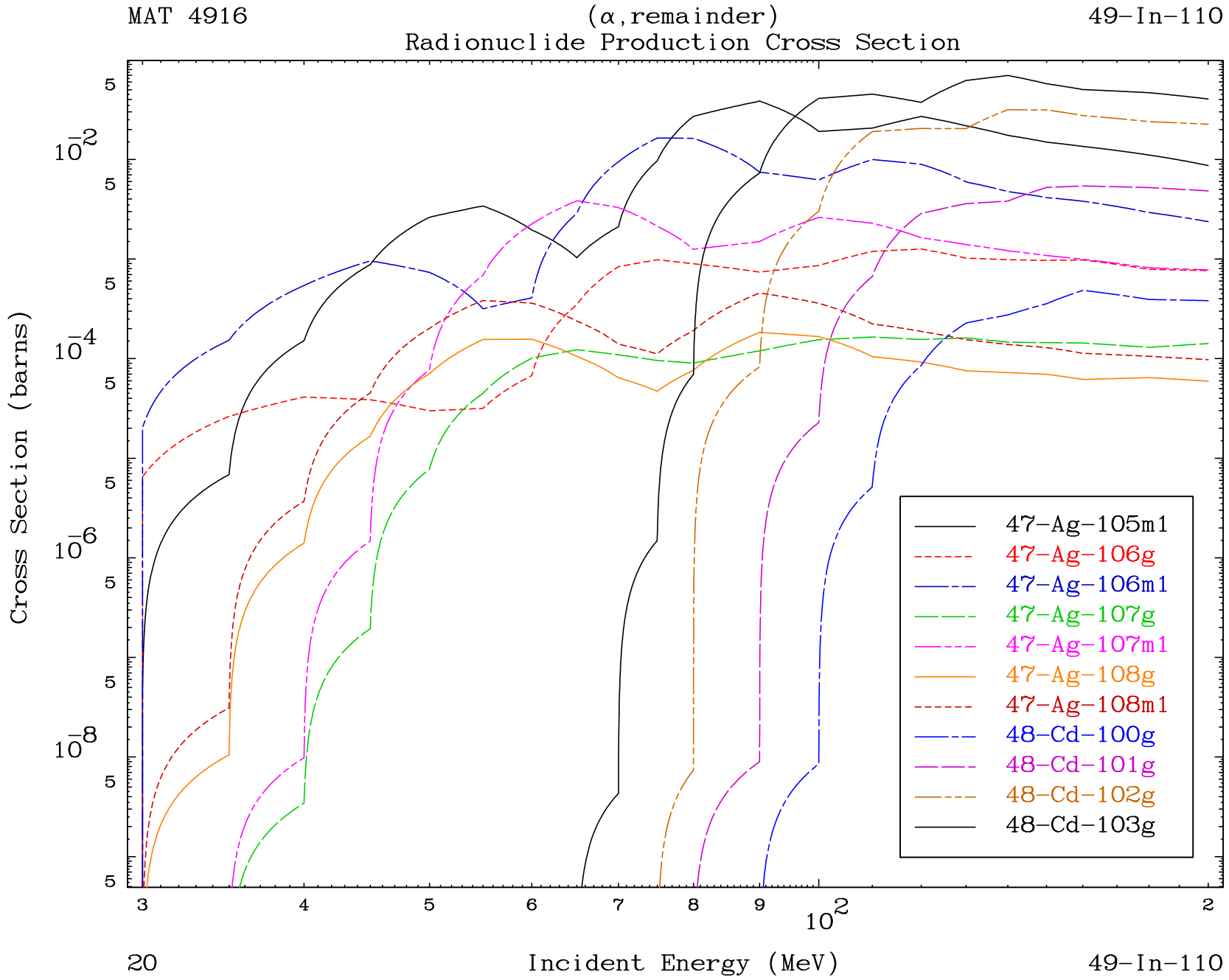

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
49-In-110
44-Ru-99g
45-Rh-94g
45-Rh-94m1
45-Rh-95g
45-Rh-95m1
45-Rh-96g
45-Rh-96m1
45-Rh-97g
45-Rh-97m1
45-Rh-98g
45-Rh-98m1

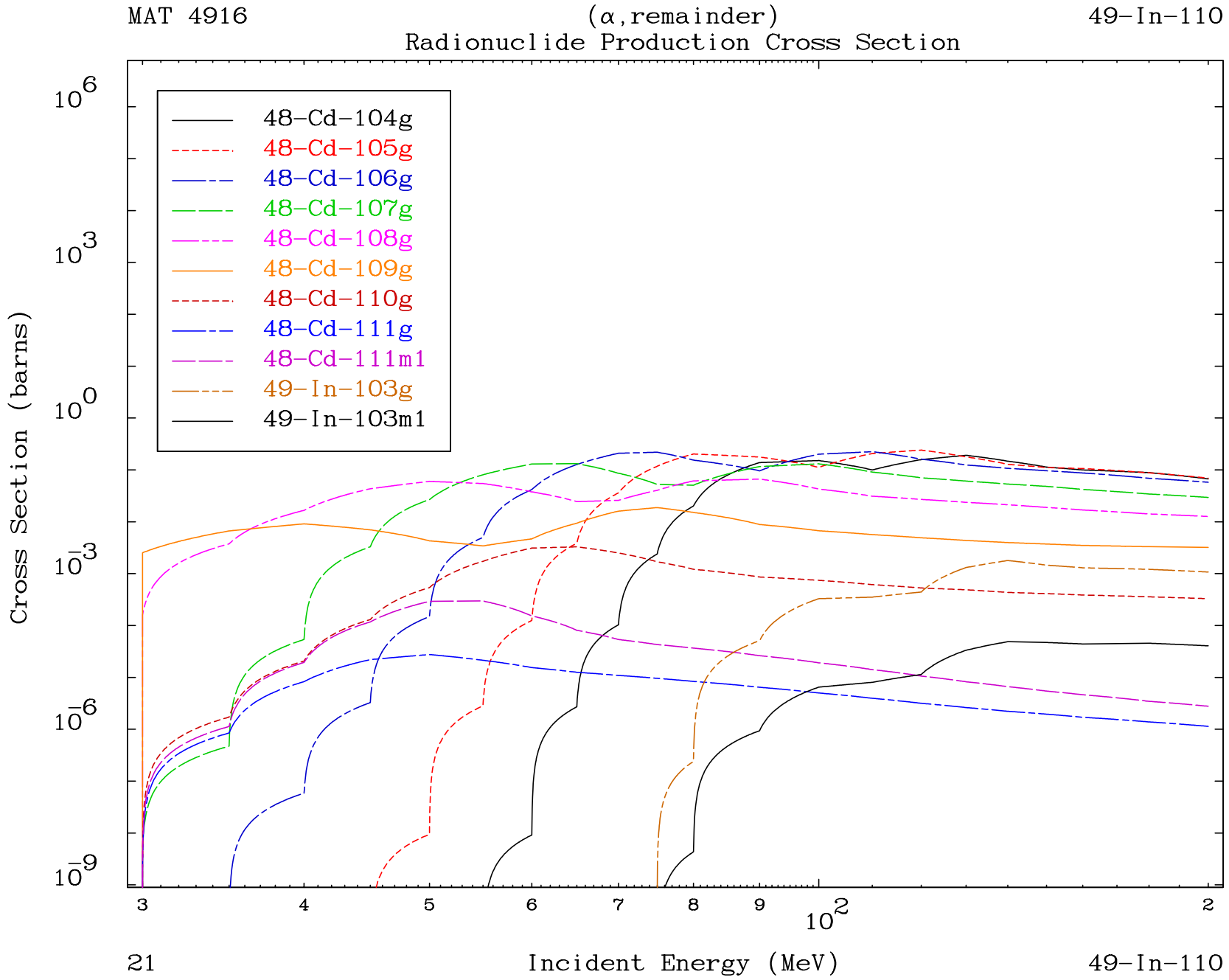

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
45-Rh-99g
45-Rh-99m1
45-Rh-100g
45-Rh-100m1
45-Rh-101g
45-Rh-101m1
45-Rh-102g
45-Rh-102m1
46-Pd-96g
46-Pd-97g
46-Pd-98g
Cross Section (barns)
Incident Energy (MeV)
17
49-In-110

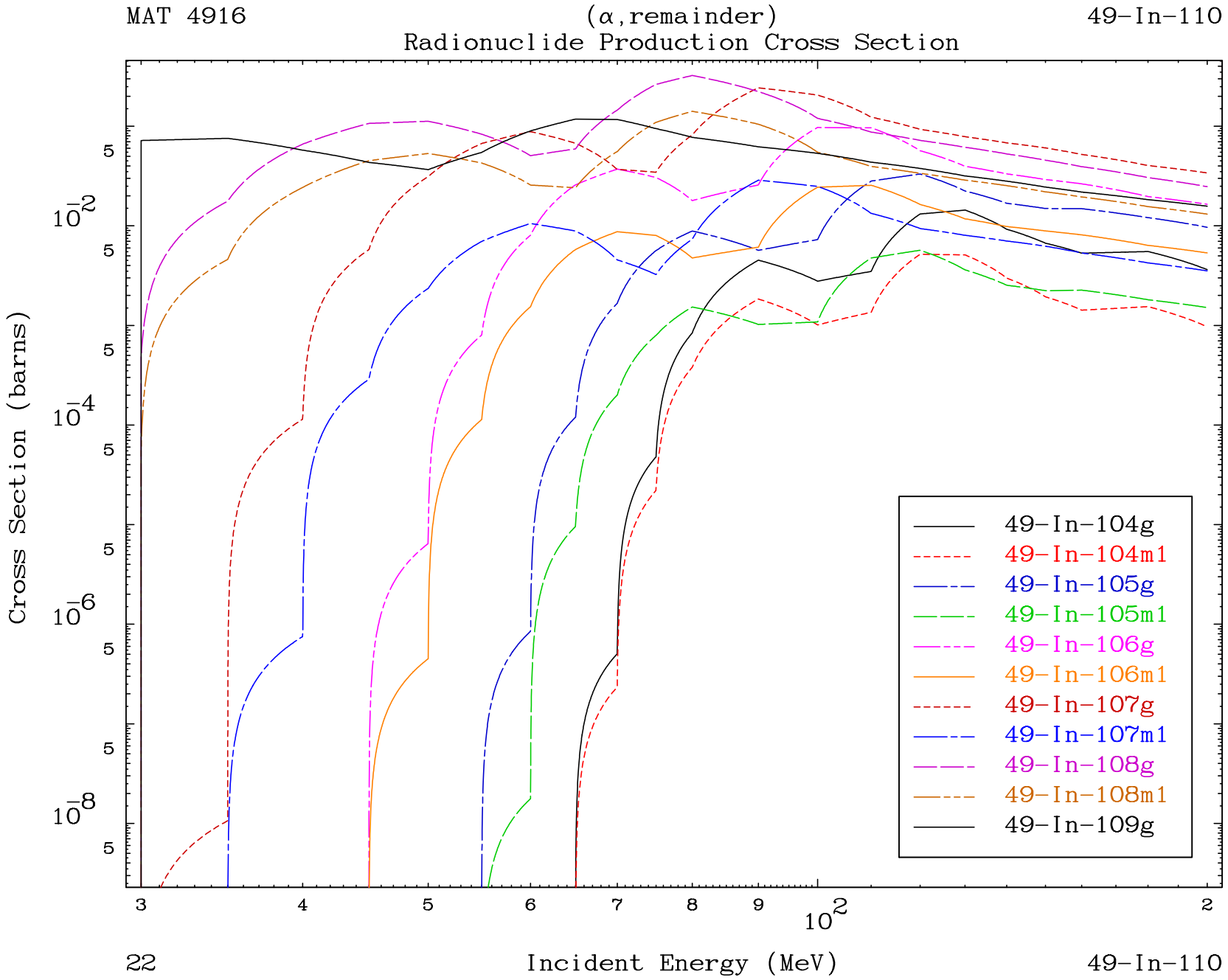

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
46-Pd-99g
46-Pd-100g
46-Pd-101g
46-Pd-102g
46-Pd-103g
46-Pd-104g
46-Pd-105g
47-Ag-97g
47-Ag-98g
47-Ag-99g
47-Ag-99m1
Cross Section (barns)
10-2
10-4
10-6
10-8
3
4
5
6
7
8
9
10 2
2
18
Incident Energy (MeV)
49-In-110

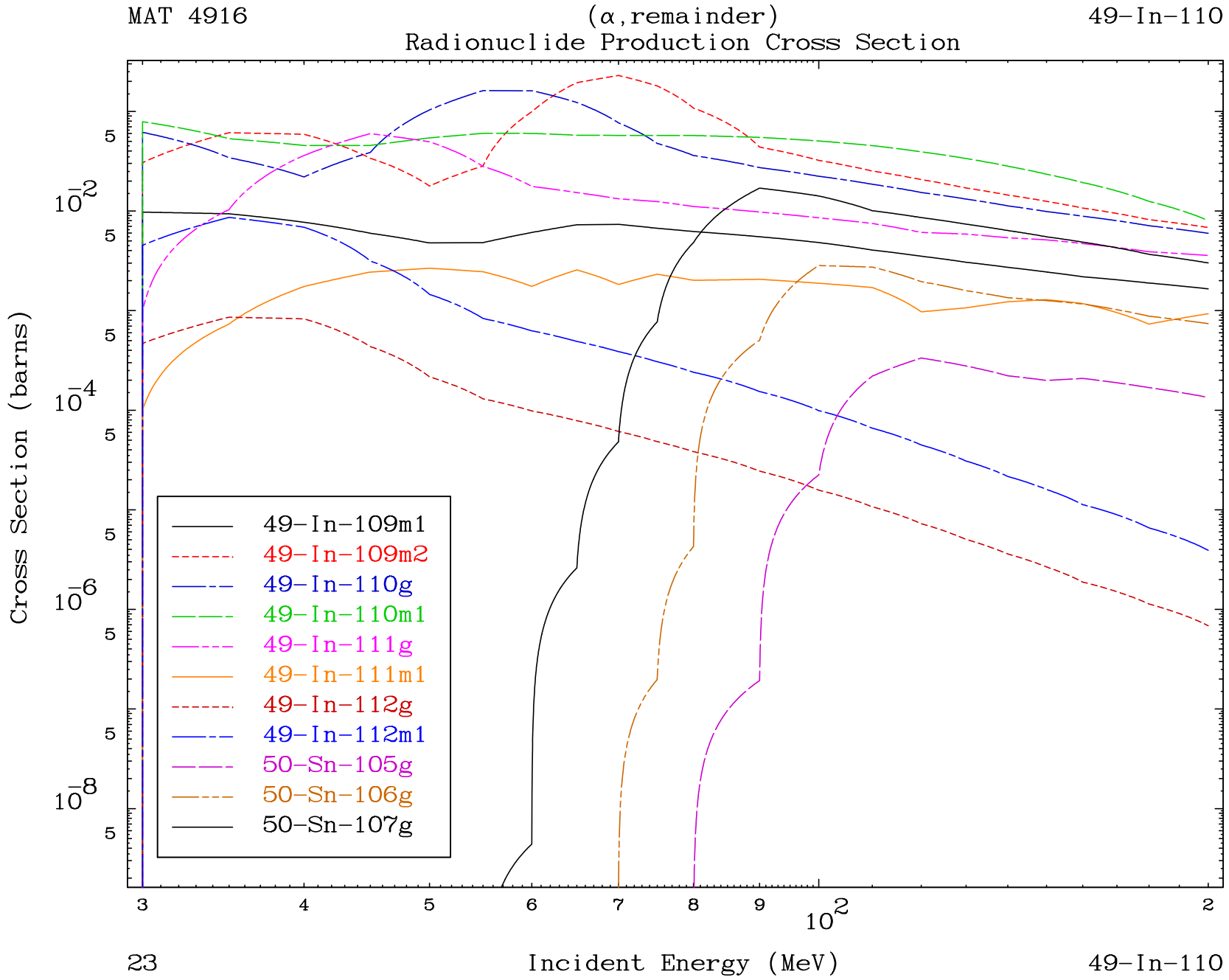

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
47-Ag-100g
47-Ag-100m1
47-Ag-101g
47-Ag-101m1
47-Ag-102g
47-Ag-102m1
47-Ag-103g
47-Ag-103m1
47-Ag-104g
47-Ag-104m1
47-Ag-105g

49-In-110

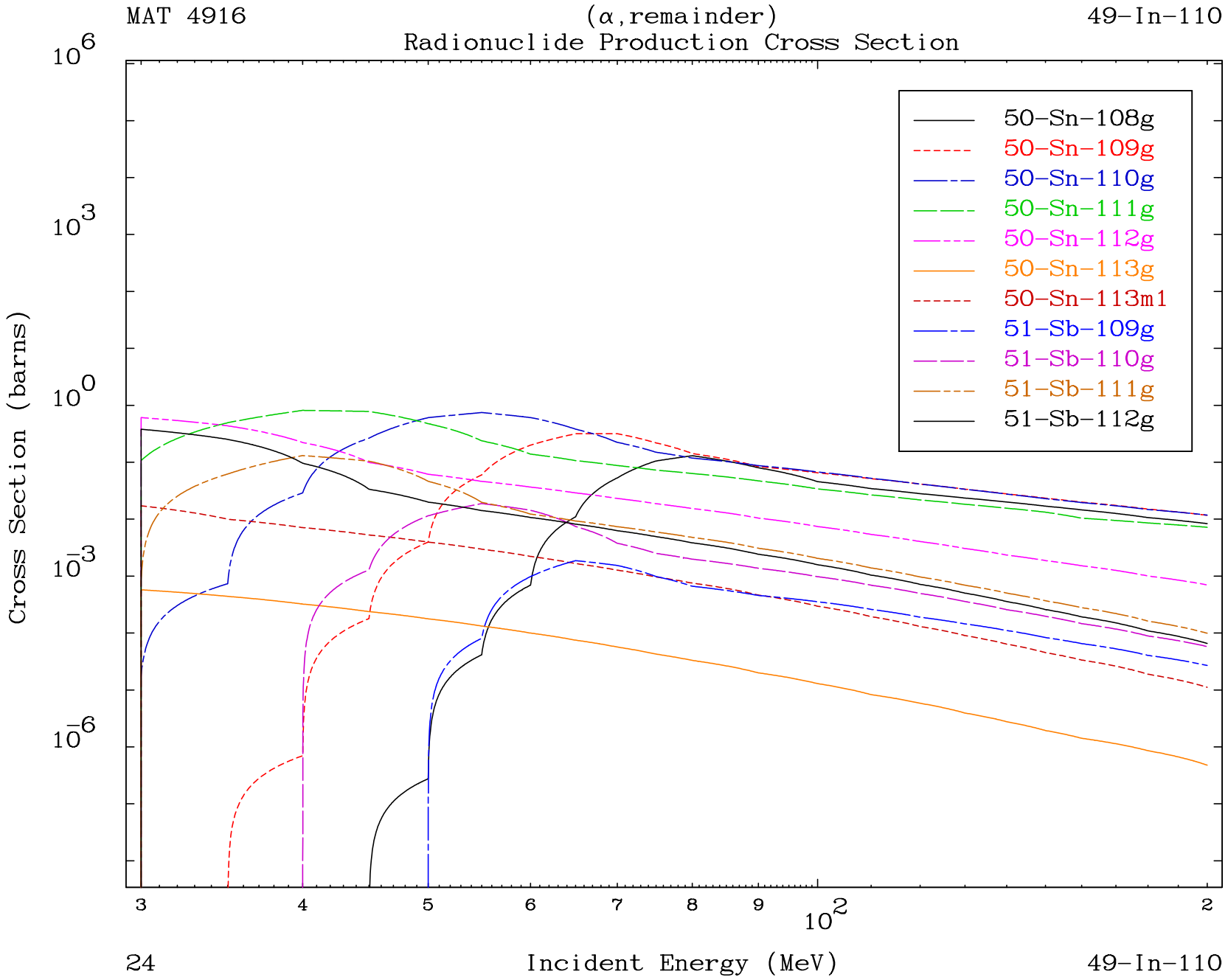

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
20
49-In-110
47-Ag-105m1
47-Ag-106g
47-Ag-106m1
47-Ag-107g
47-Ag-107m1
47-Ag-108g
47-Ag-108m1
48-Cd-100g
48-Cd-101g
48-Cd-102g
48-Cd-103g

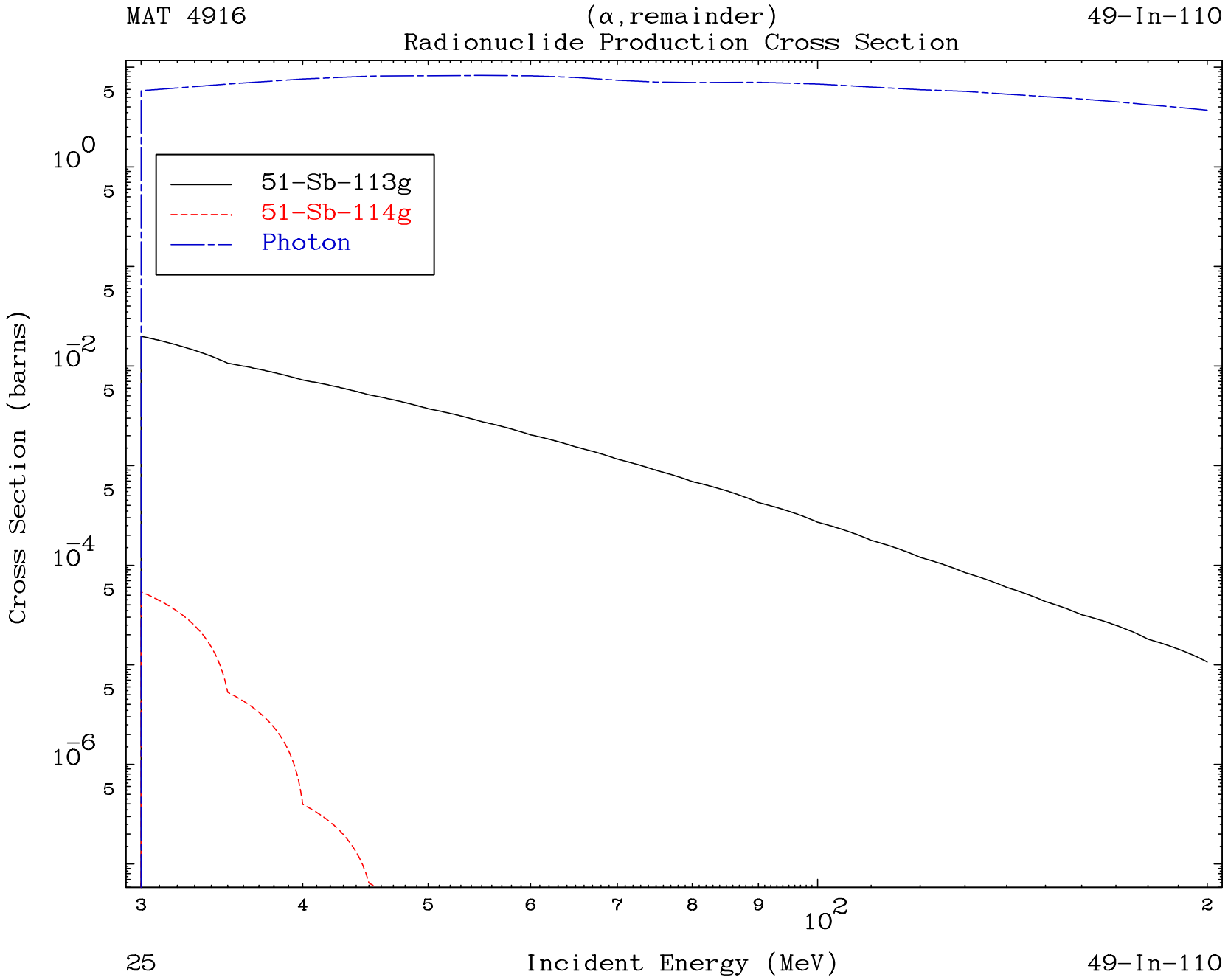

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
48-Cd-104g
48-Cd-105g
48-Cd-106g
48-Cd-107g
48-Cd-108g
48-Cd-109g
48-Cd-110g
48-Cd-111g
48-Cd-111m1
49-In-103g
49-In-103m1
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-9
3
4
5
6
7
8
9
10^2
2
21
Incident Energy (MeV)
49-In-110

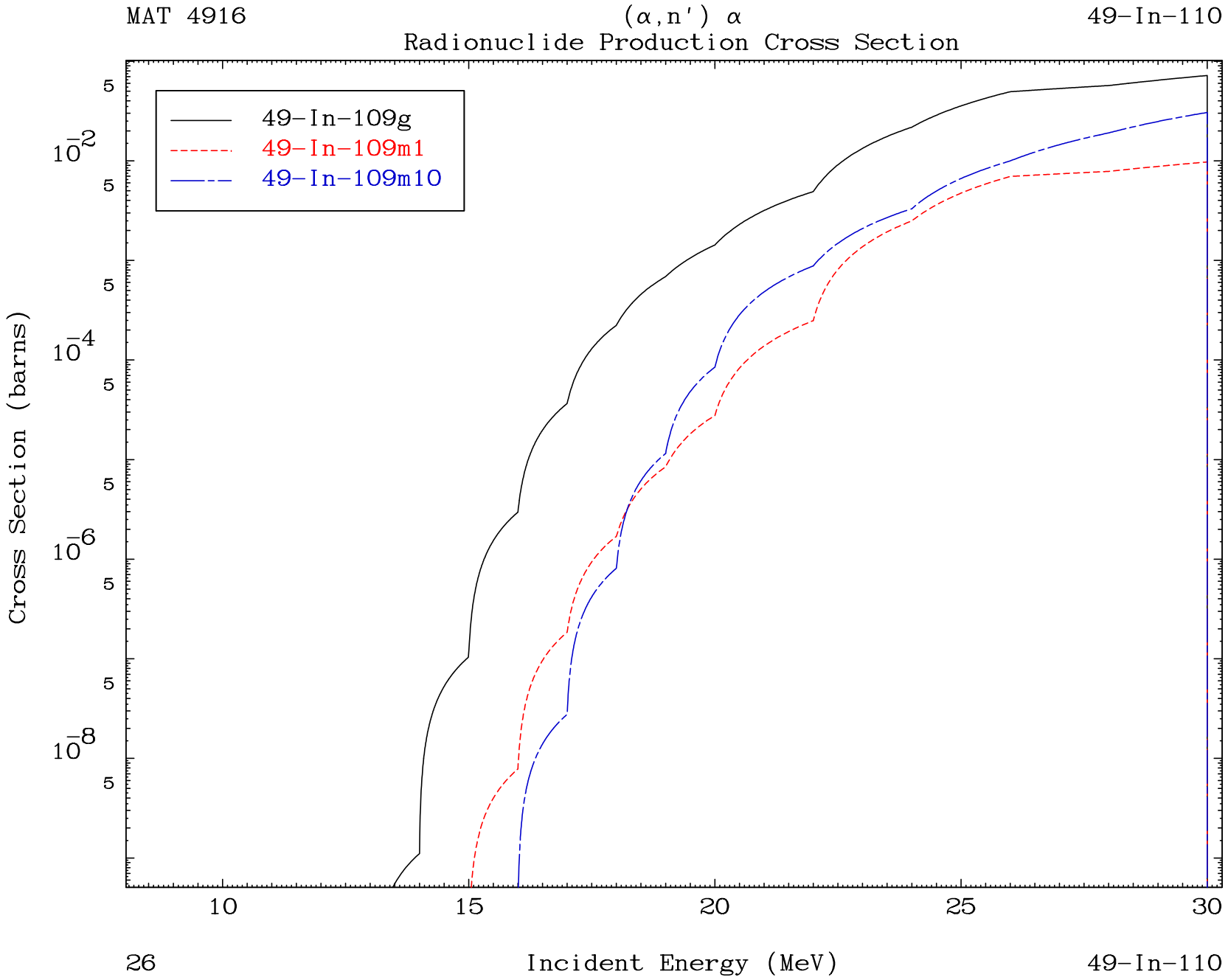

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
22
49-In-110
49-In-104g
49-In-104m1
49-In-105g
49-In-105m1
49-In-106g
49-In-106m1
49-In-107g
49-In-107m1
49-In-108g
49-In-108m1
49-In-109g

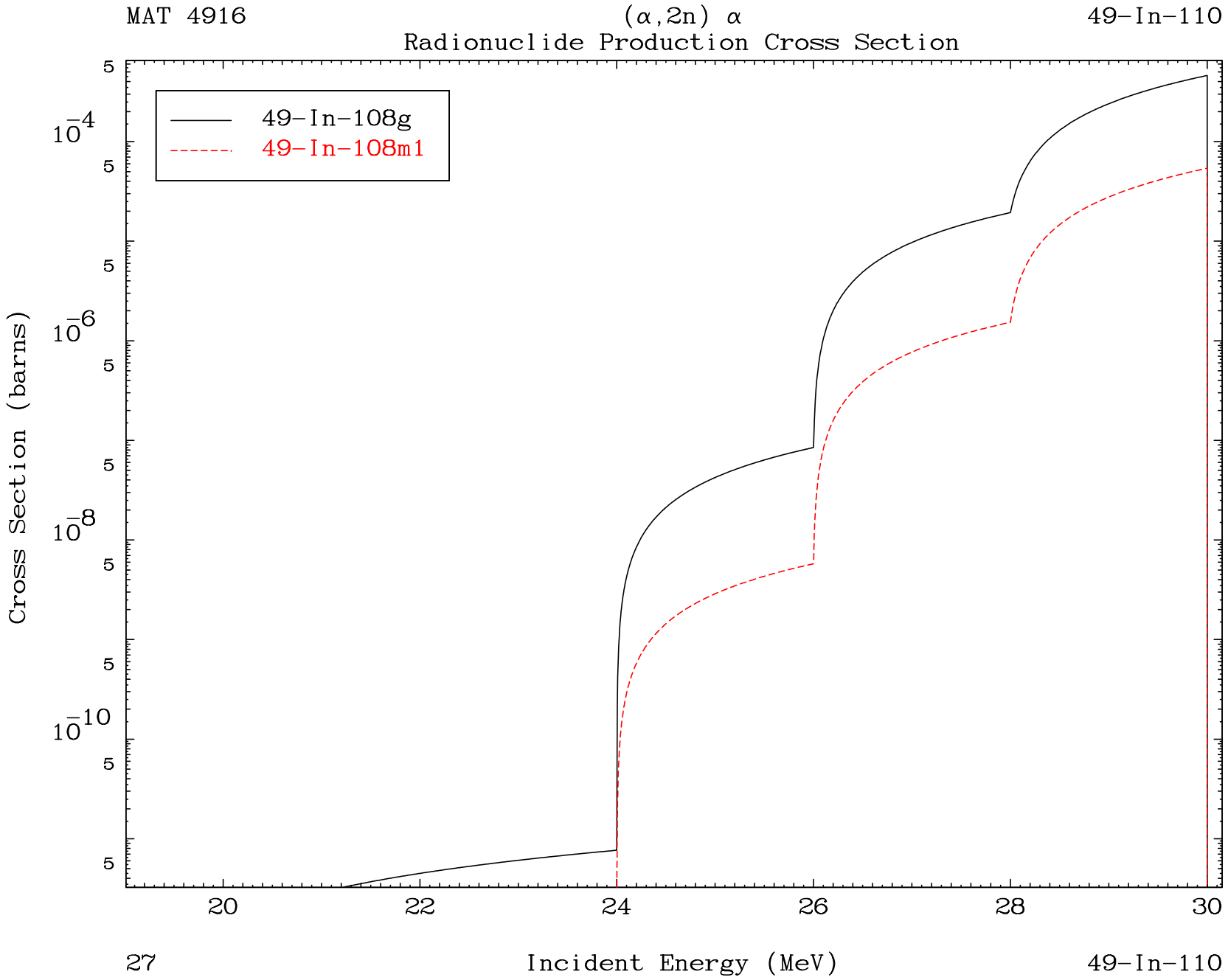

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
Cross Section (barns)
10-2
10-4
10-6
10-8
5
3
4
5
6
7
8
9
10 2
2
Incident Energy (MeV)
49-In-109m1
49-In-109m2
49-In-110g
49-In-110m1
49-In-111g
49-In-111m1
49-In-112g
49-In-112m1
50-Sn-105g
50-Sn-106g
50-Sn-107g

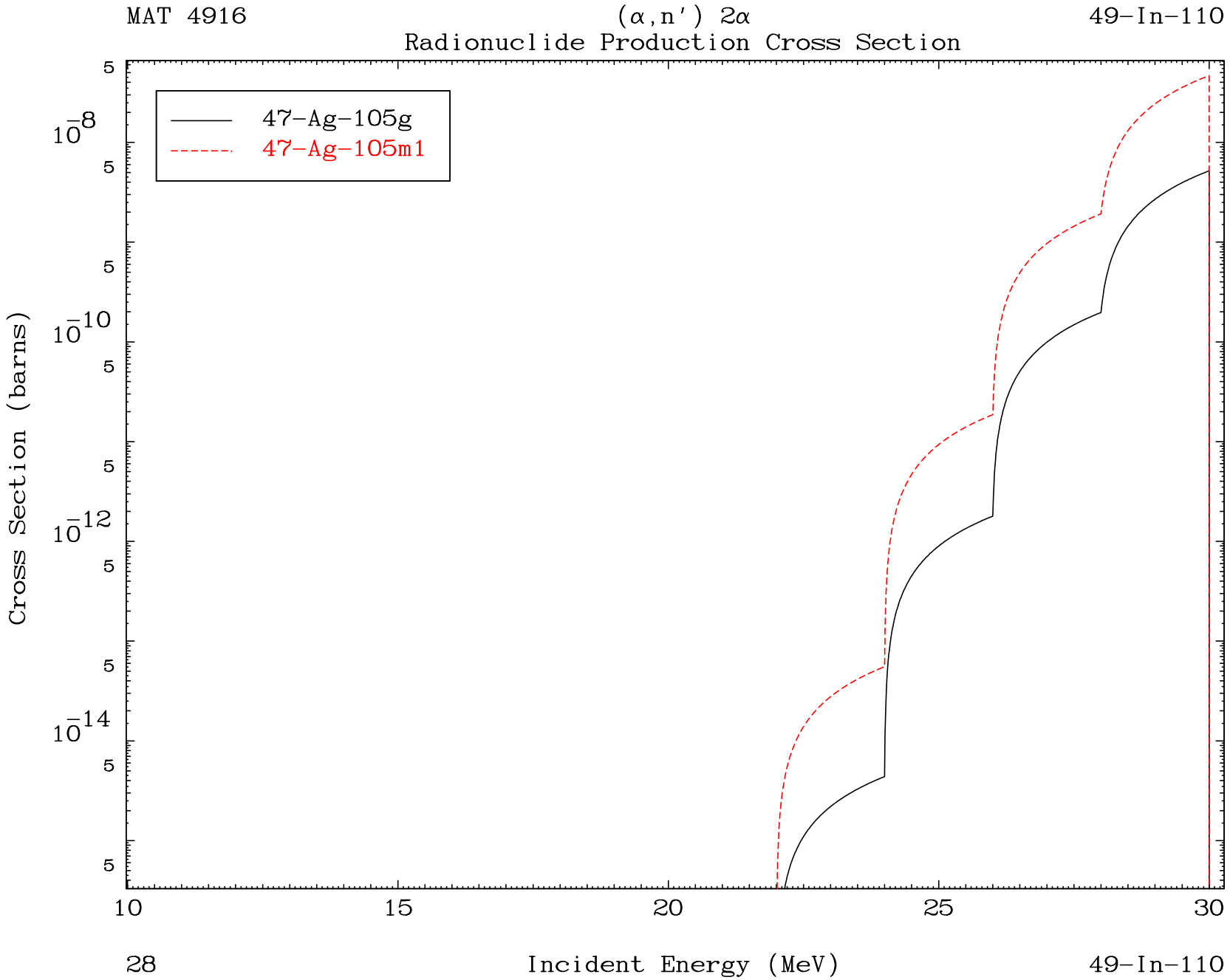
49-In-110

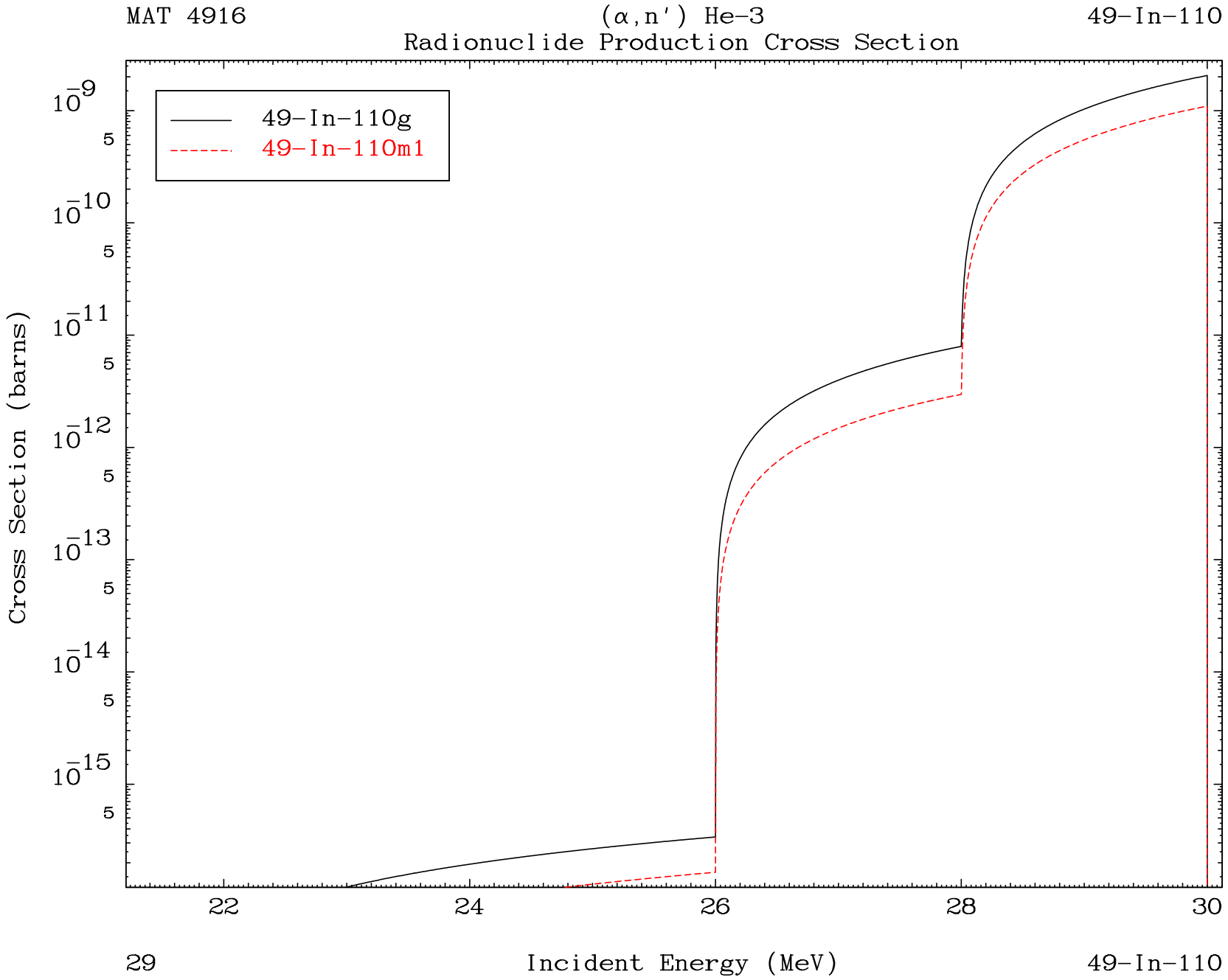

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
50-Sn-108g
50-Sn-109g
50-Sn-110g
50-Sn-111g
50-Sn-112g
50-Sn-113g
50-Sn-113m1
51-Sb-109g
51-Sb-110g
51-Sb-111g
51-Sb-112g
3
4
5
6
7
8
9
10^2
2
24
Incident Energy (MeV)
49-In-110

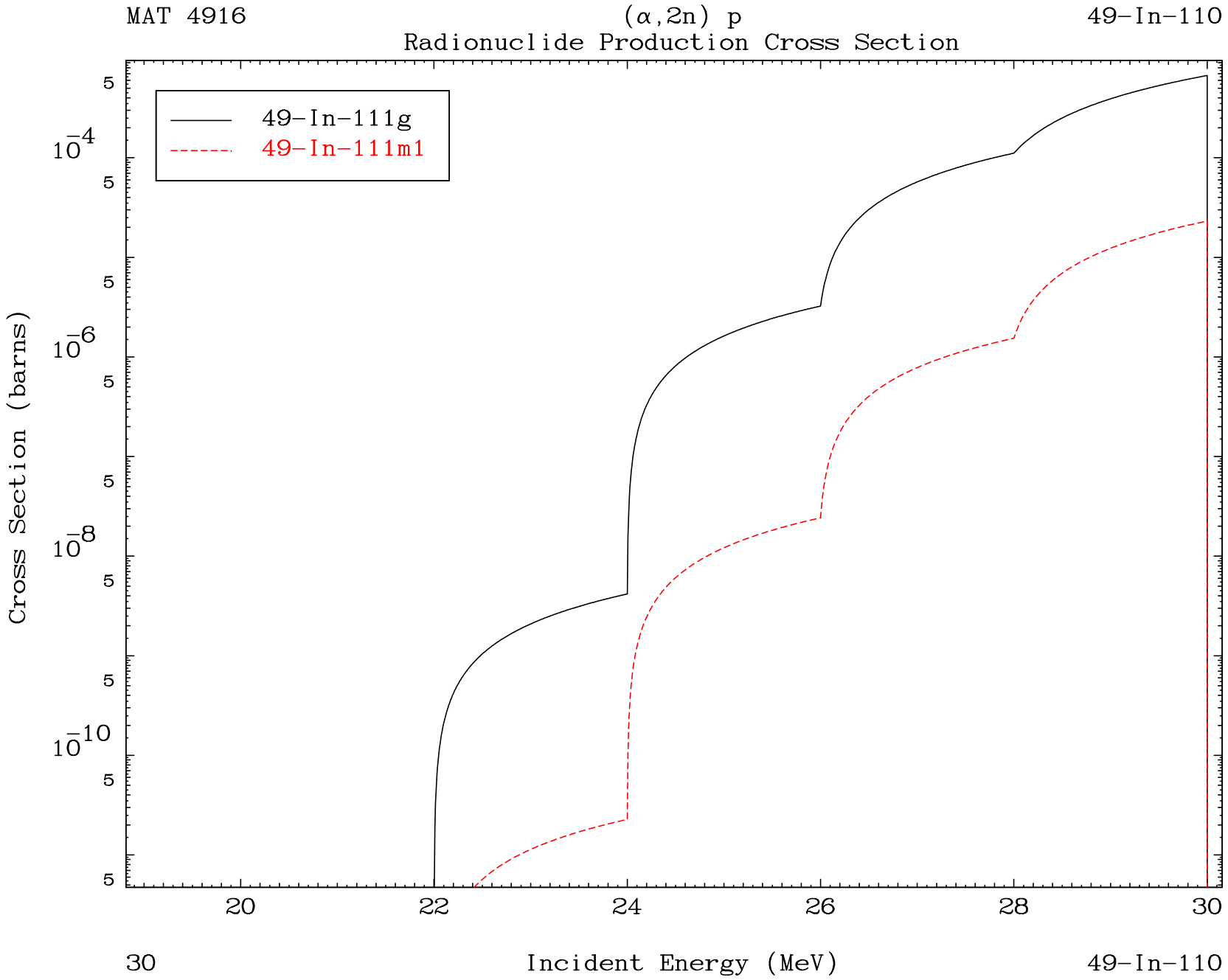

MAT 4916
(α,remainder)
49-In-110
Radionuclide Production Cross Section
51-Sb-113g
51-Sb-114g
Photon
Cross Section (barns)
Incident Energy (MeV)
25
49-In-110

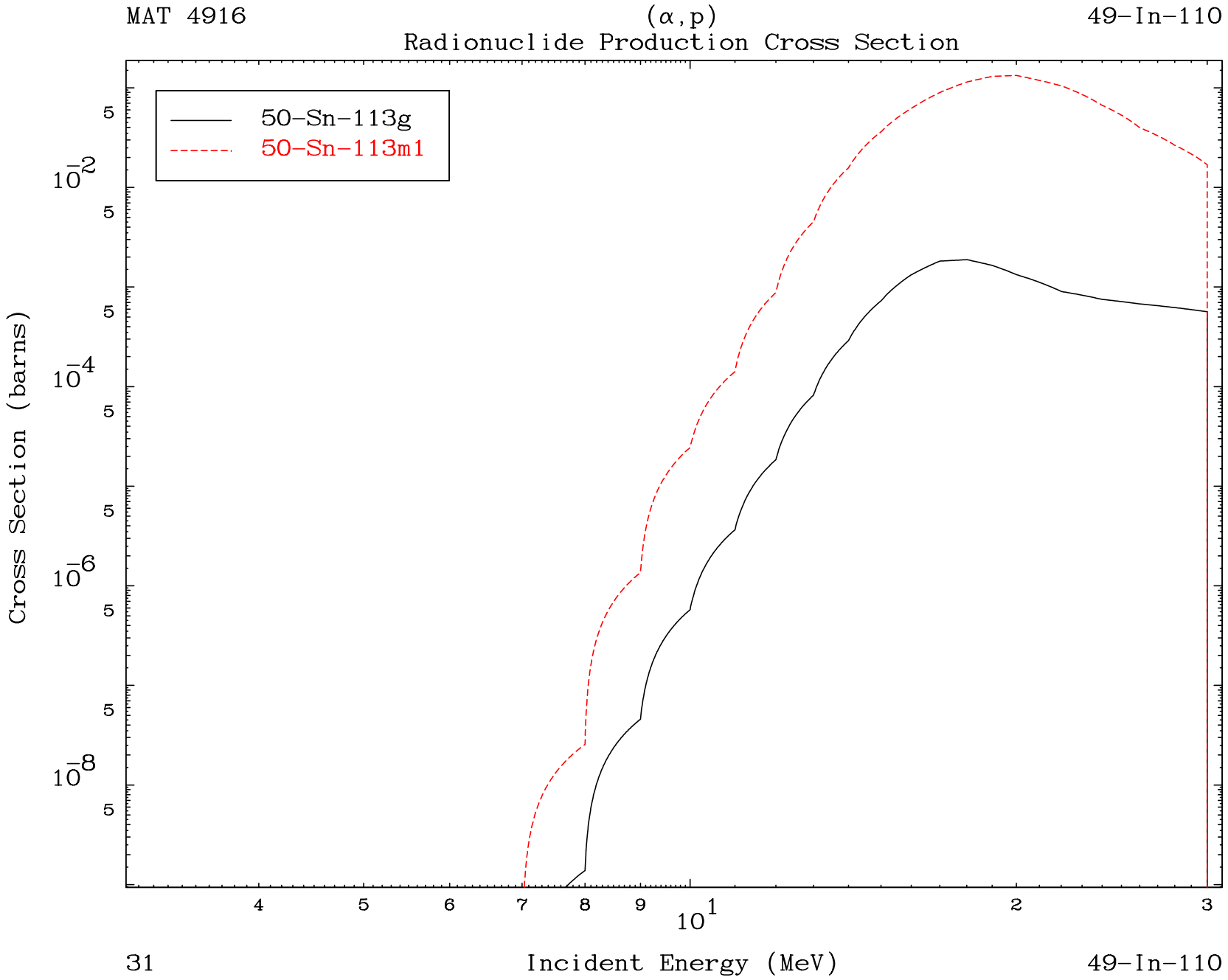

MAT 4916
(α,n') α
49-In-110
Radionuclide Production Cross Section
49-In-109g
49-In-109m1
49-In-109m10
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
5
10
15
20
25
30
26
Incident Energy (MeV)
49-In-110

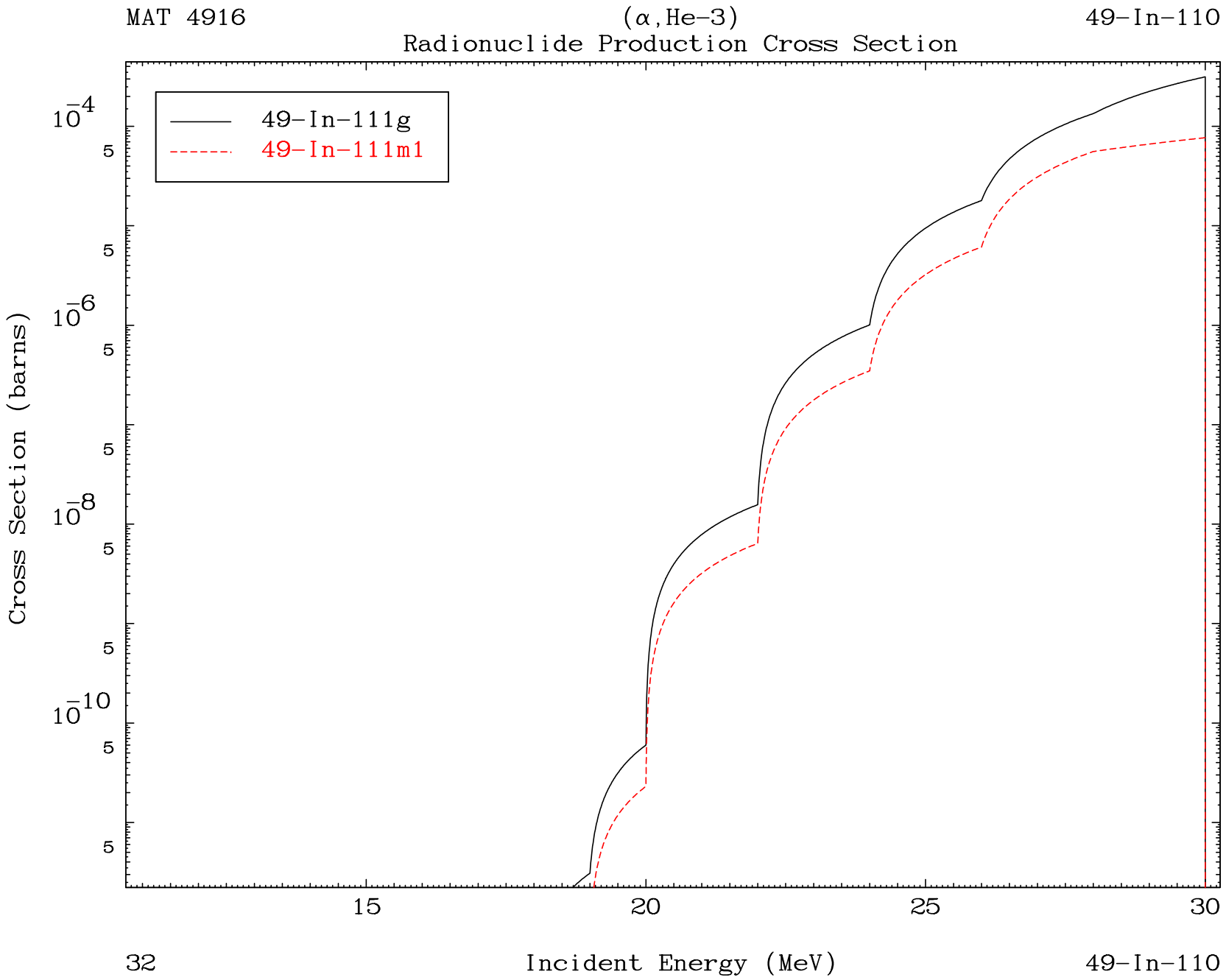

MAT 4916
(α,2n) α
49-In-110
Radionuclide Production Cross Section
49-In-108g
49-In-108m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
20
22
24
26
28
30
27
Incident Energy (MeV)
49-In-110

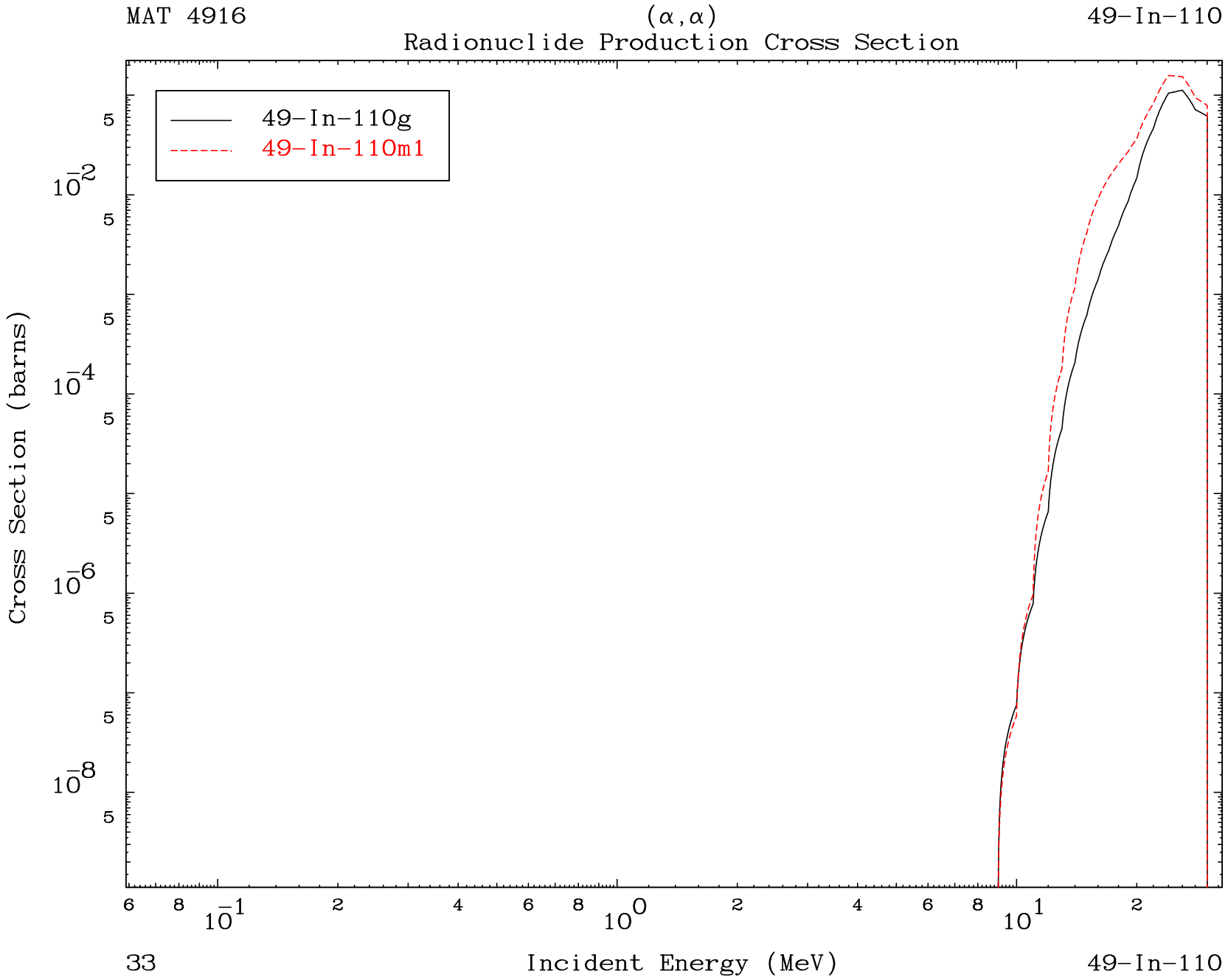

MAT 4916
(α,n') 2α
49-In-110
Radionuclide Production Cross Section
47-Ag-105g
47-Ag-105m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
10
15
20
25
30
28
Incident Energy (MeV)
49-In-110

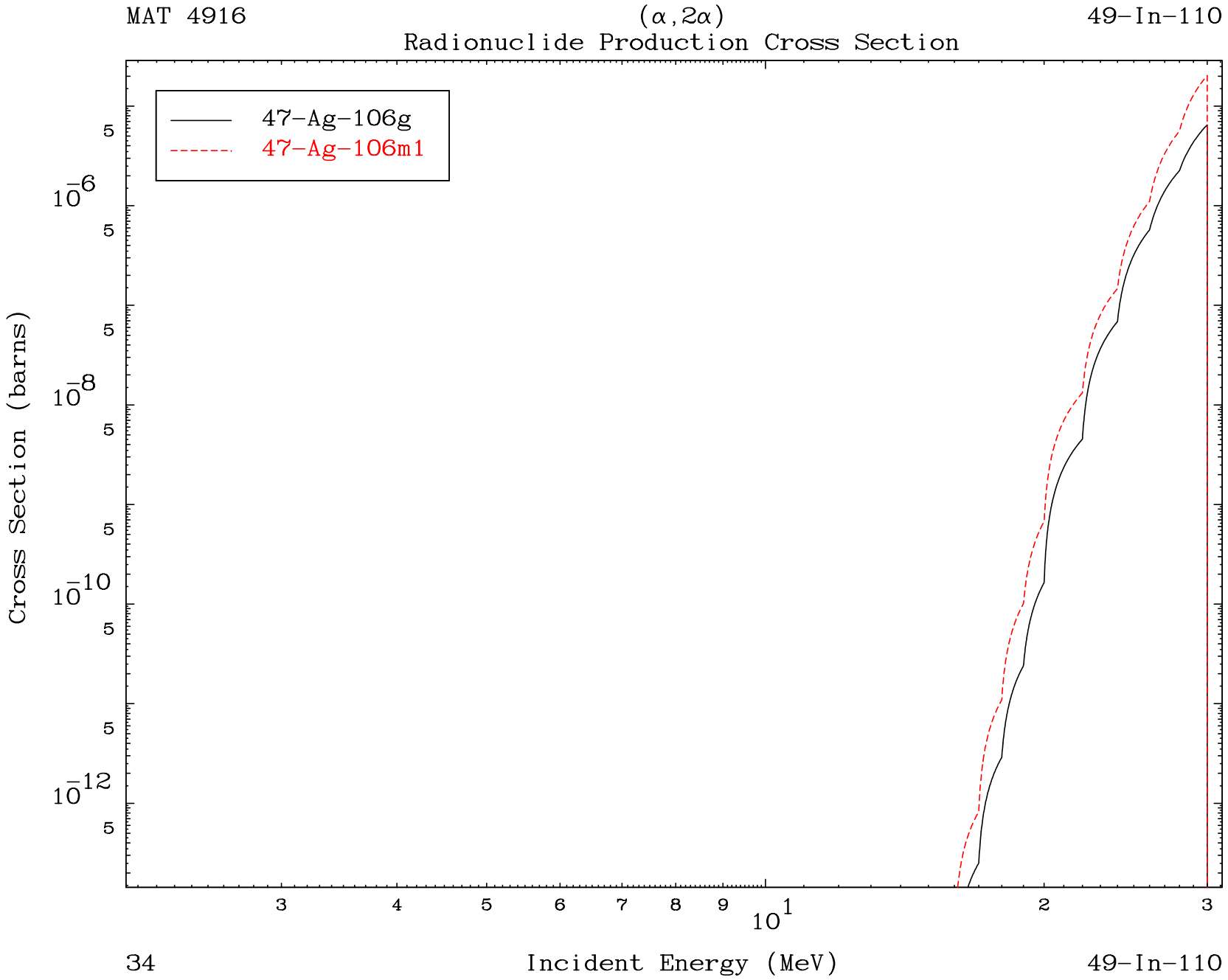

MAT 4916
(α,n') He-3
49-In-110
Radionuclide Production Cross Section
49-In-110g
49-In-110m1
Cross Section (barns)
10-9
10-10
10-11
10-12
10-13
10-14
10-15
5
22
24
26
28
30
29
Incident Energy (MeV)
49-In-110

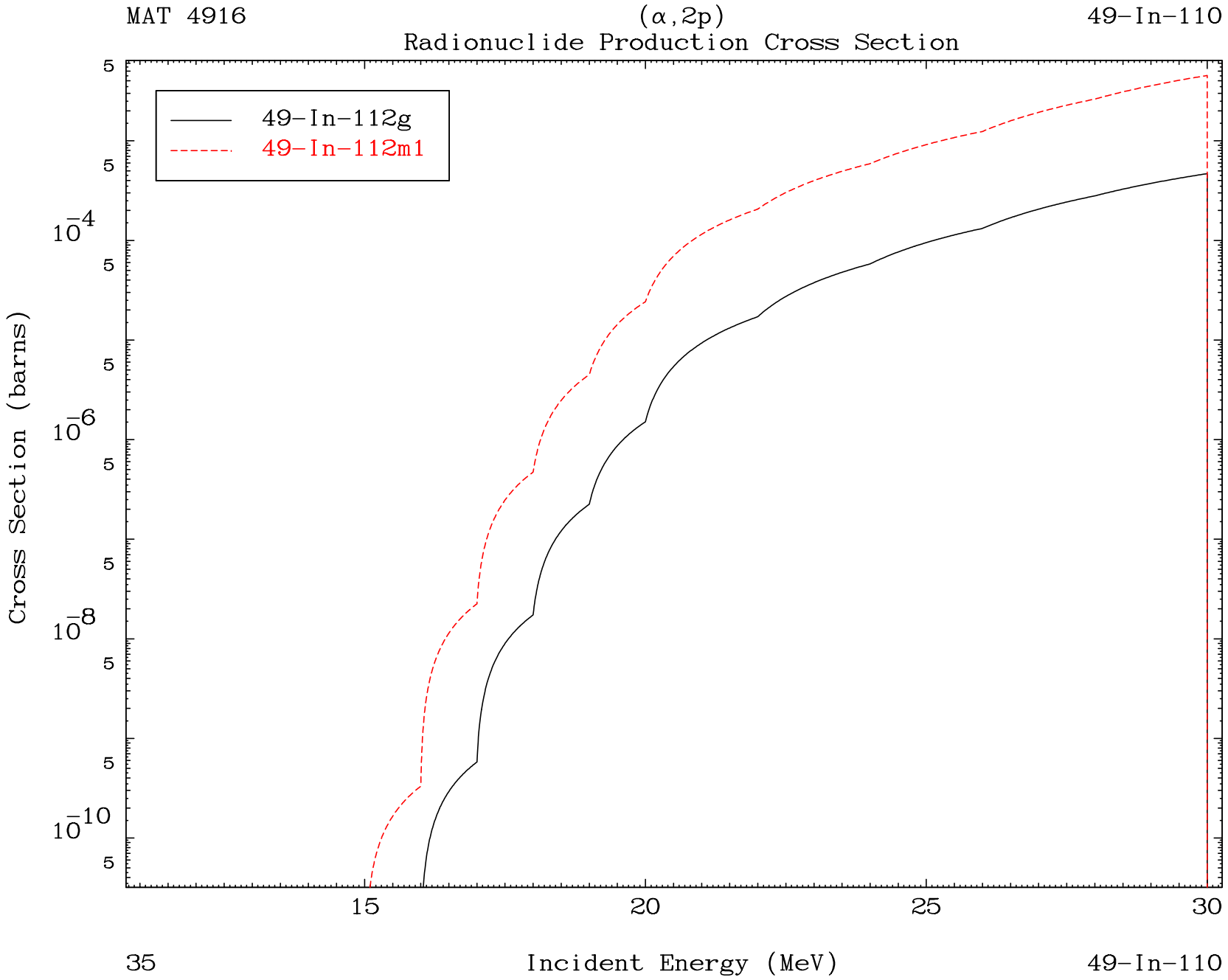

MAT 4916
(α,2n) p
49-In-110
Radionuclide Production Cross Section
49-In-111g
49-In-111m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
20
22
24
26
28
30
Incident Energy (MeV)
49-In-110

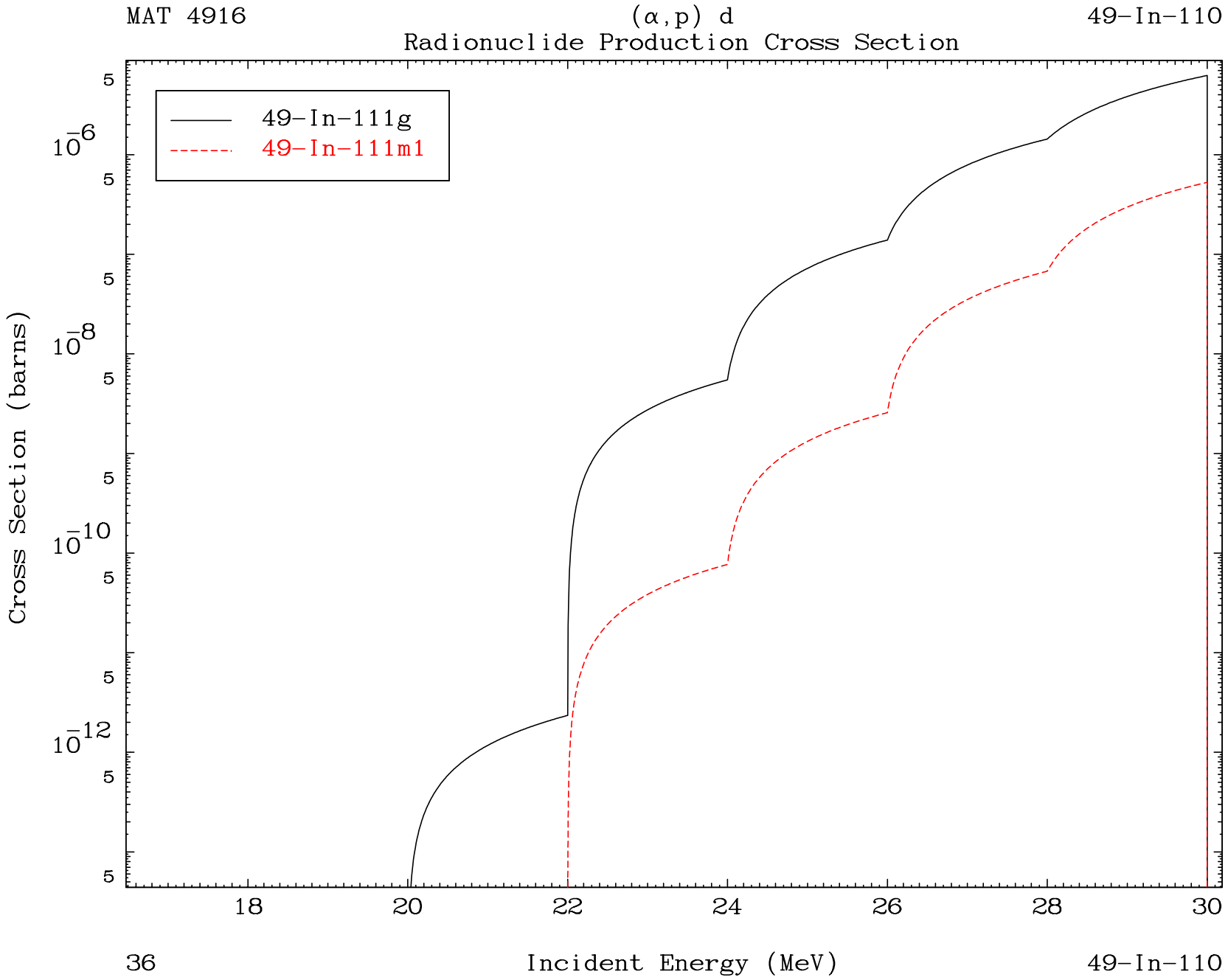

MAT 4916
(α,p)
49-In-110
Radionuclide Production Cross Section
50-Sn-113g
50-Sn-113m1
Cross Section (barns)
10-2
10-4
10-6
10-8
4
5
6
7
8
9
10 1
2
3
31
Incident Energy (MeV)
49-In-110

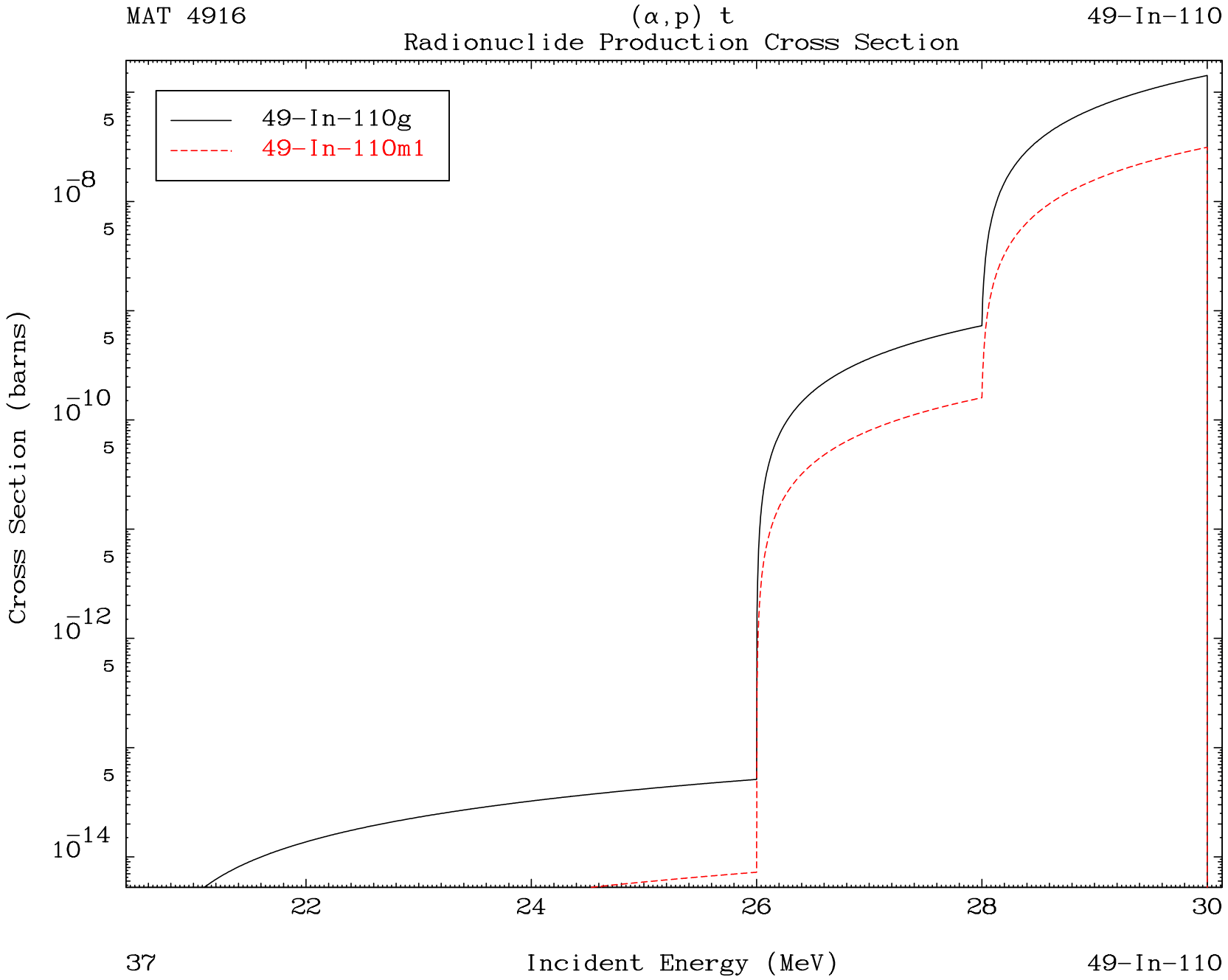

MAT 4916
(α,He-3)
49-In-110
Radionuclide Production Cross Section
49-In-111g
49-In-111m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
15
20
25
30
32
Incident Energy (MeV)
49-In-110


MAT 4916
(α,α)
49-In-110
Radionuclide Production Cross Section
49-In-110g
49-In-110m1
Cross Section (barns)
10^-2
10^-4
10^-6
10^-8
10^-1
10^0
10^1
Incident Energy (MeV)
33
49-In-110


MAT 4916
(α,2α)
49-In-110
Radionuclide Production Cross Section
47-Ag-106g
47-Ag-106m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
3
4
5
6
7
8
9
10^1
2
3
34
Incident Energy (MeV)
49-In-110


MAT 4916
(α,2p)
49-In-110
Radionuclide Production Cross Section
49-In-112g
49-In-112m1
Cross Section (barns)
10-4
10-6
10-8
10-10
15
20
25
30
35
Incident Energy (MeV)
49-In-110


MAT 4916
(α,p) d
49-In-110
Radionuclide Production Cross Section
49-In-111g
49-In-111m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
18
20
22
24
26
28
30
36
Incident Energy (MeV)
49-In-110


MAT 4916
(α,p) t
49-In-110
Radionuclide Production Cross Section
49-In-110g
49-In-110m1
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
22
24
26
28
30
37
Incident Energy (MeV)
49-In-110