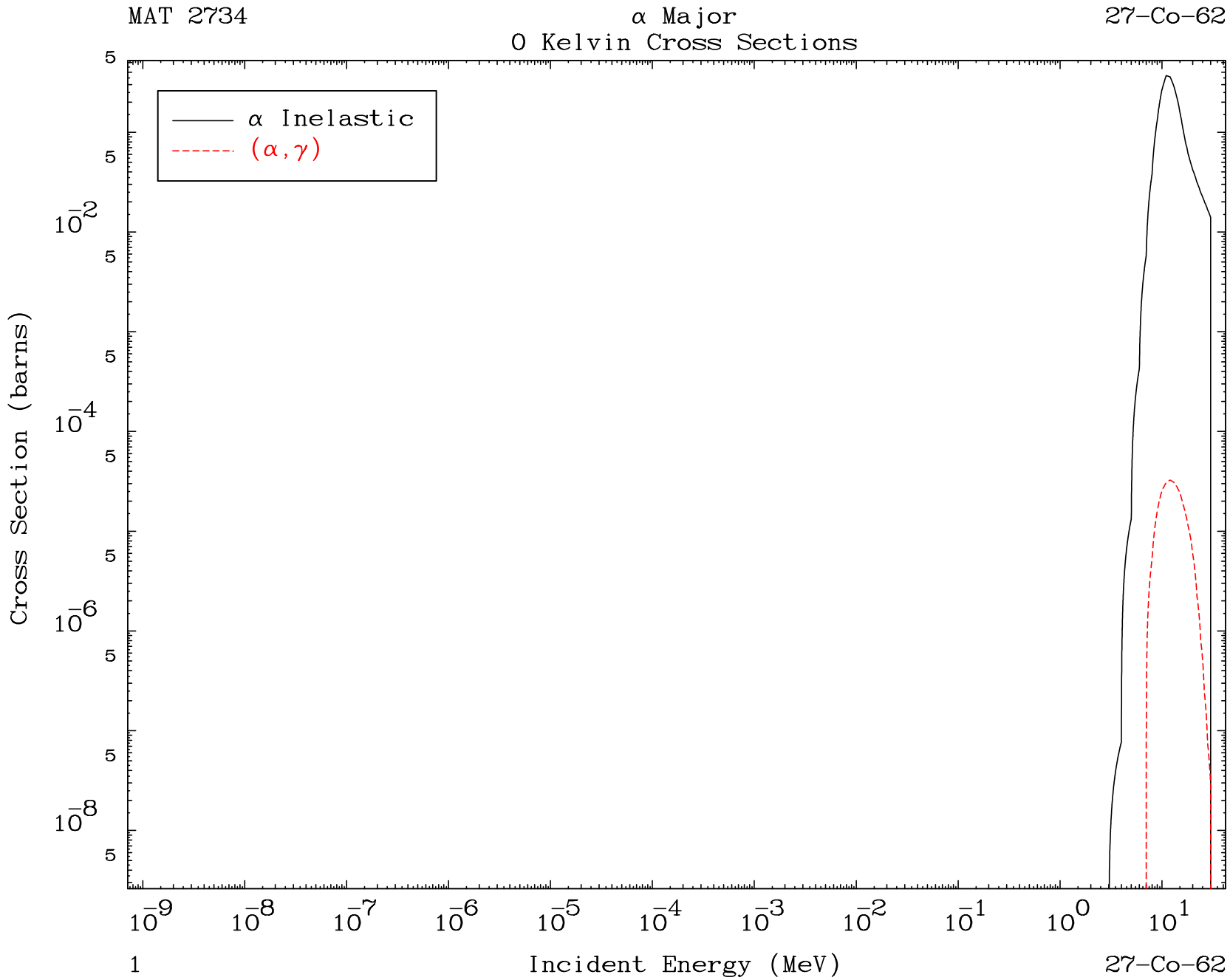
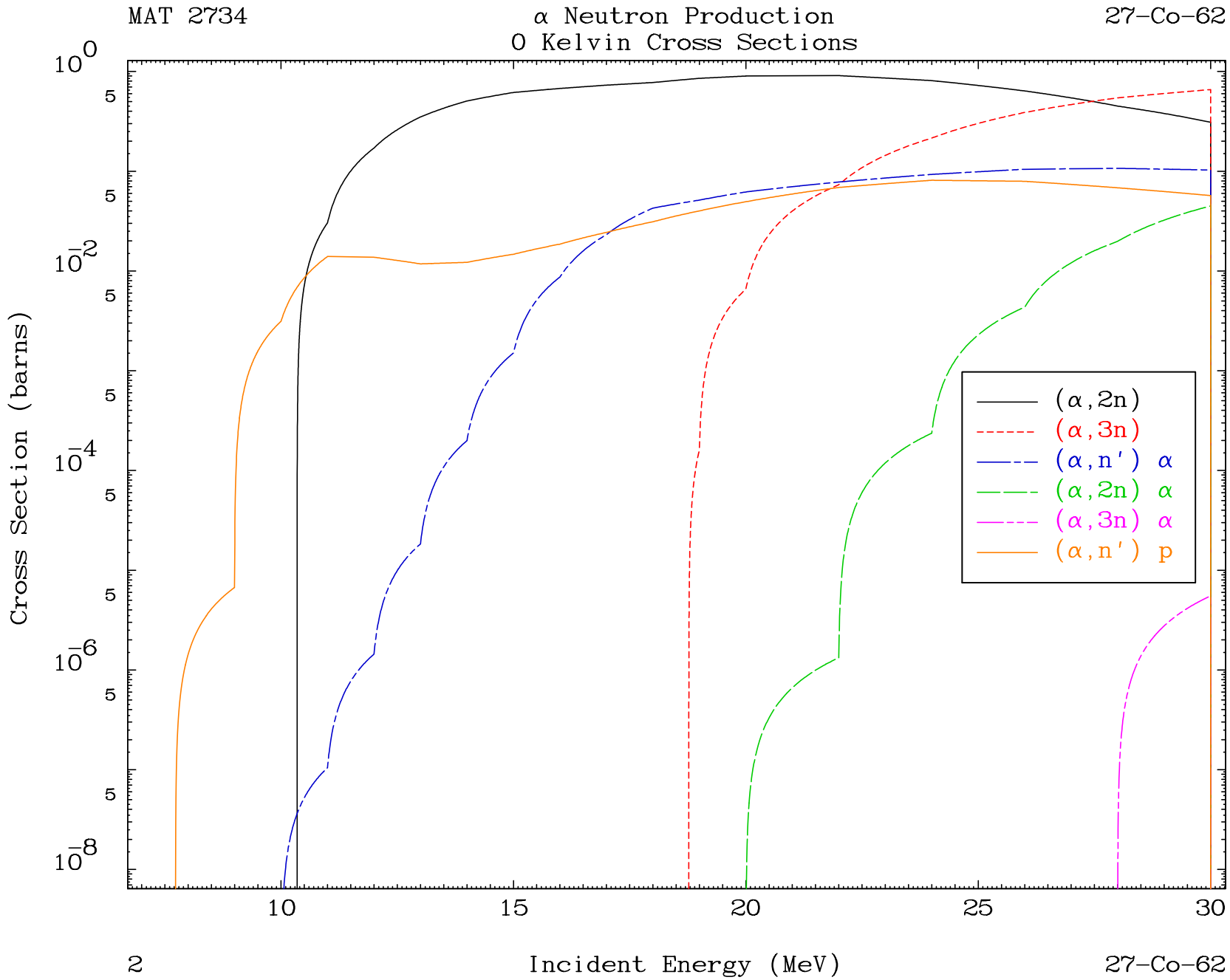
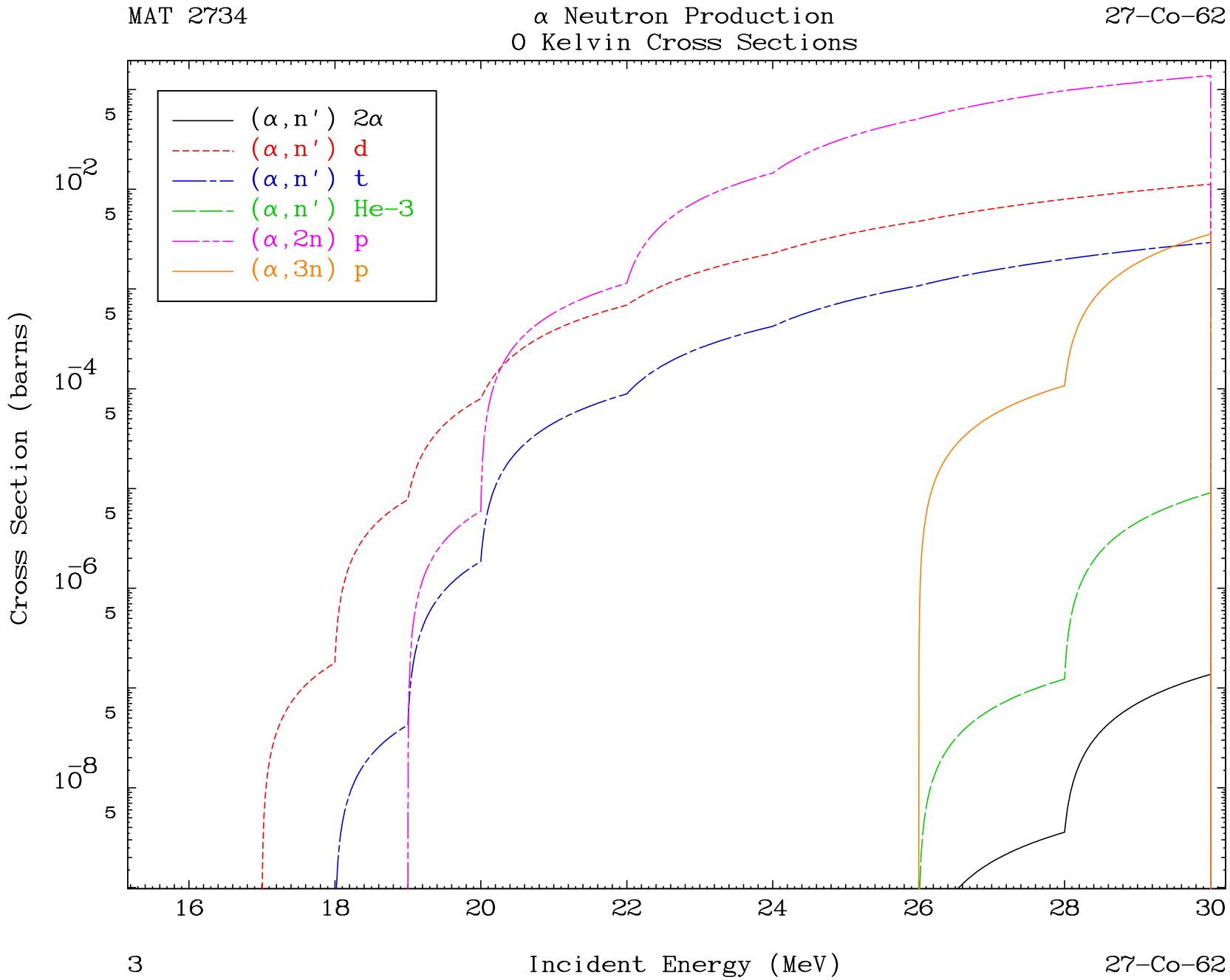
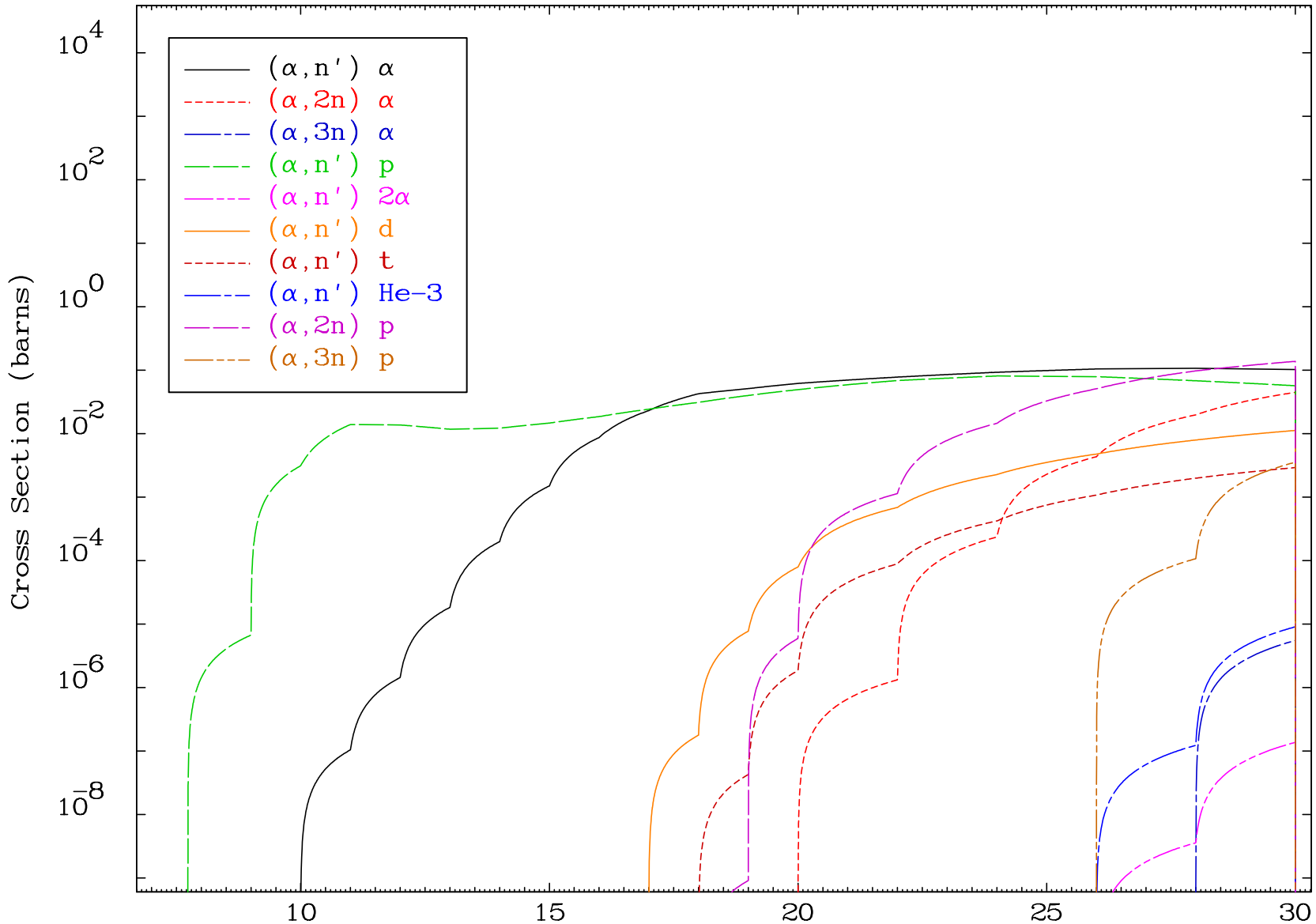
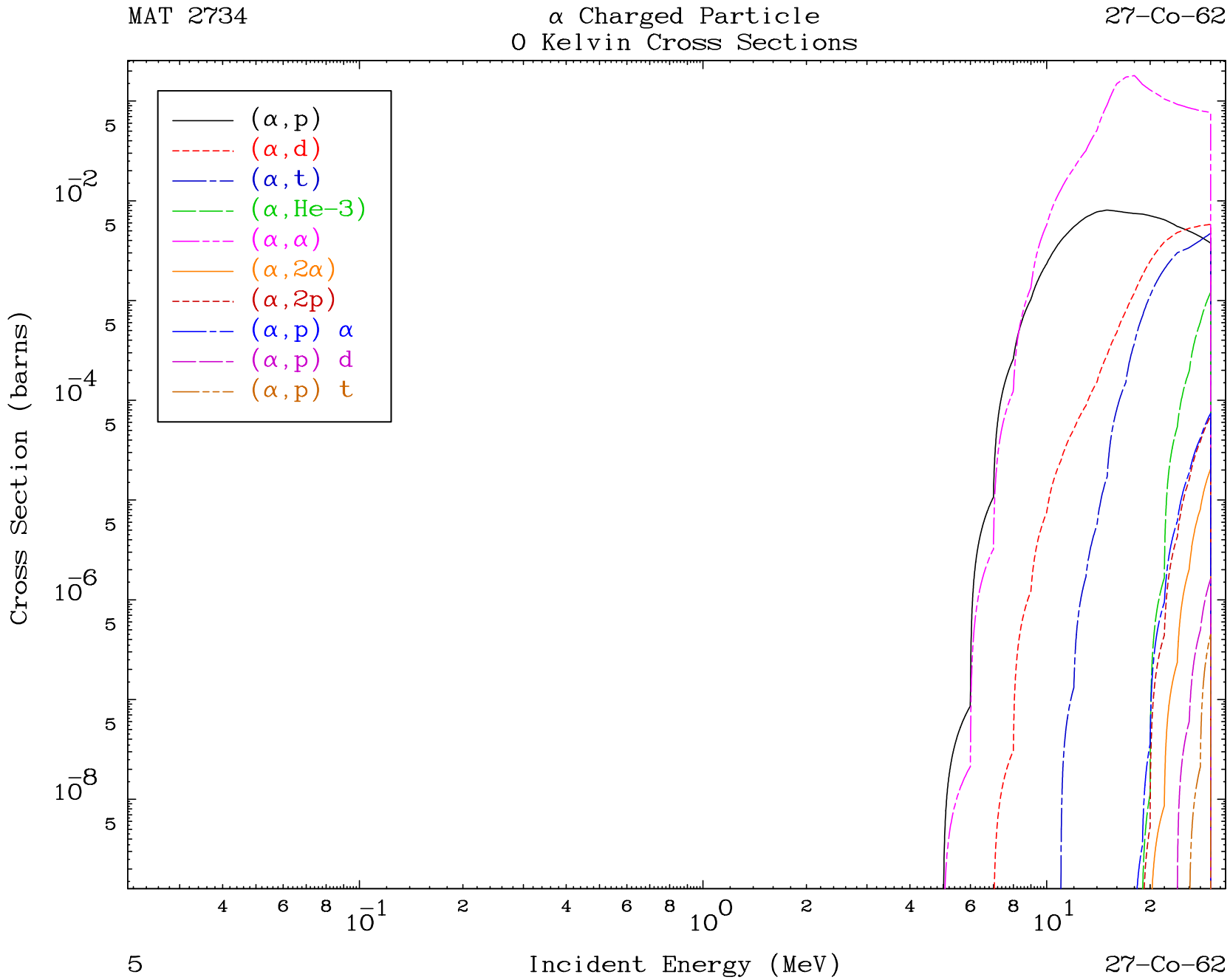

MAT 2734
α Major
27-Co-62
0 Kelvin Cross Sections
α Inelastic
(α,γ)
Cross Section (barns)
Incident Energy (MeV)
27-Co-62


MAT 2734
α Neutron Production
0 Kelvin Cross Sections
27-Co-62
Cross Section (barns)
Incident Energy (MeV)
(α,2n)
(α,3n)
(α,n') α
(α,2n) α
(α,3n) α
(α,n') p
2
27-Co-62

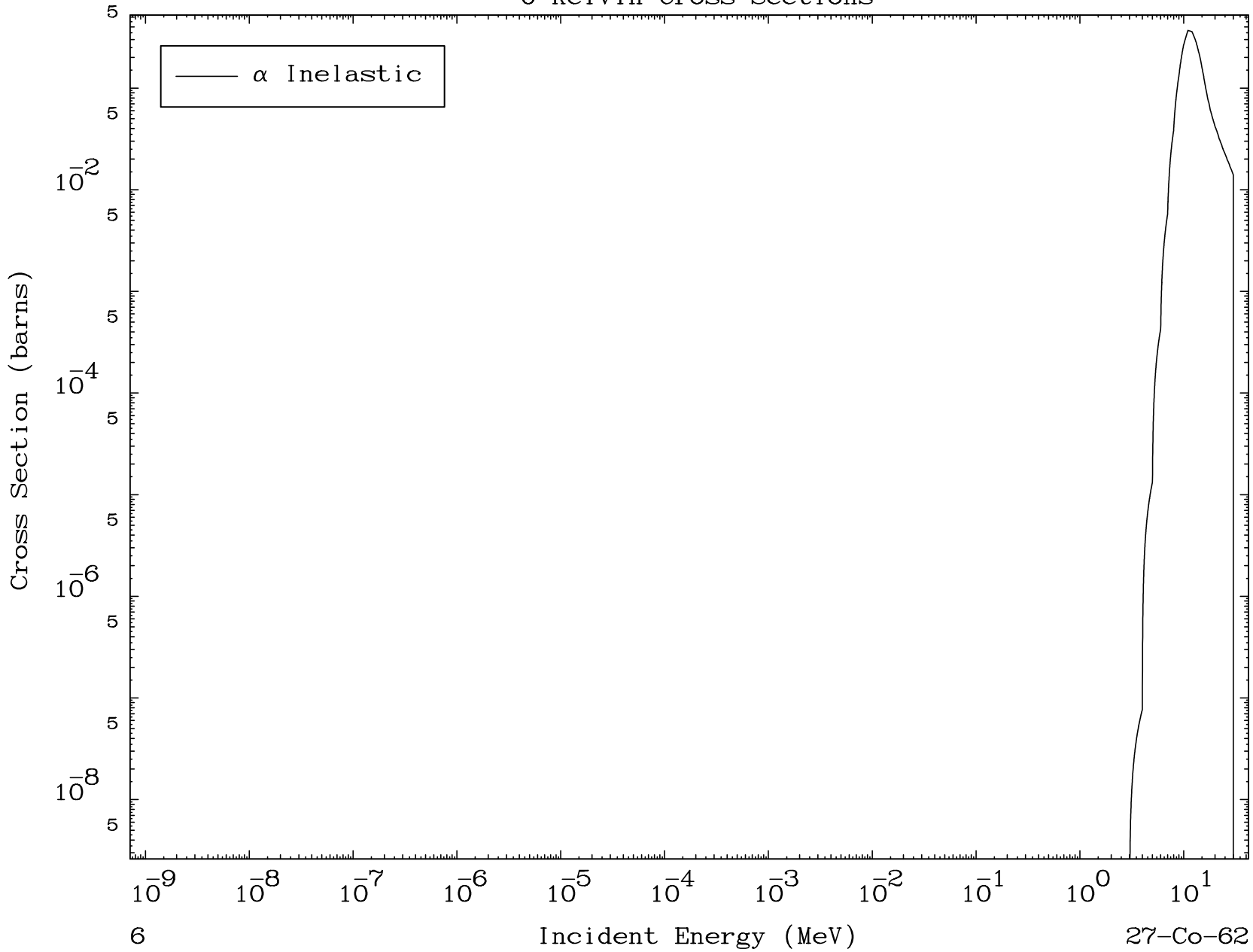

MAT 2734
α Neutron Production
0 Kelvin Cross Sections
27-Co-62
(α,n') 2α
(α,n') d
(α,n') t
(α,n') He-3
(α,2n) p
(α,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
27-Co-62

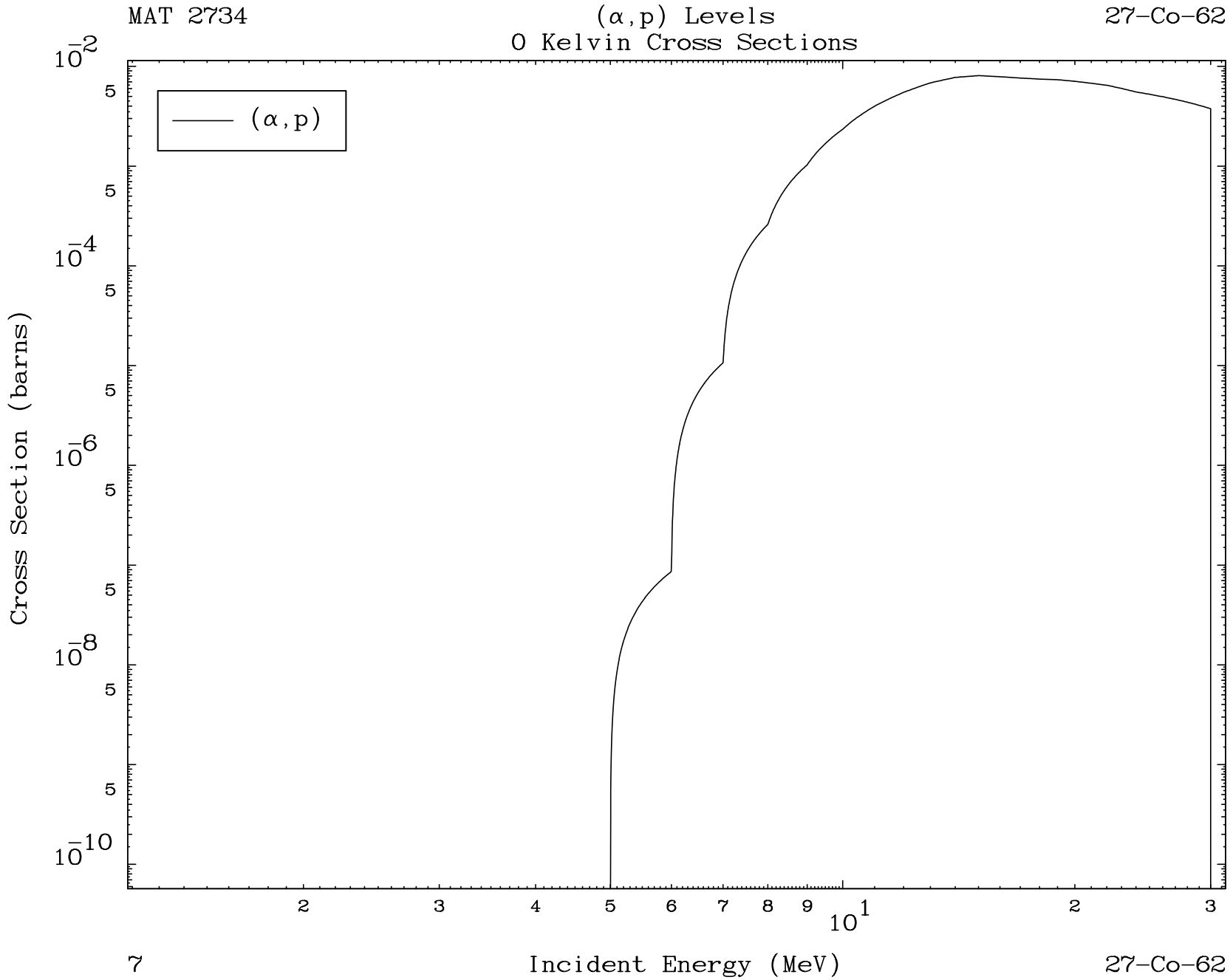
0 Kelvin Cross Sections



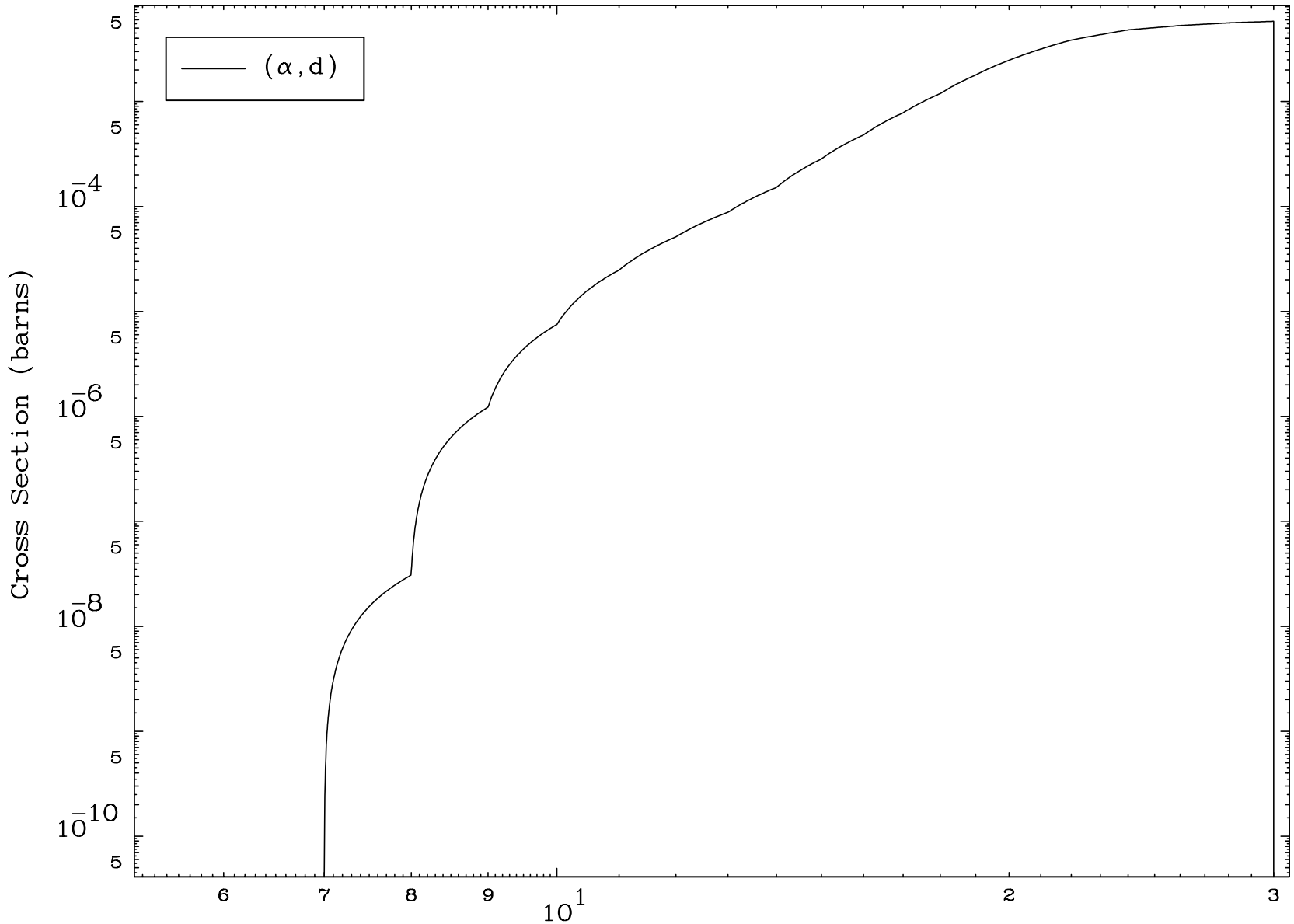

MAT 2734
α Charged Particle
0 Kelvin Cross Sections
27-Co-62
(α,p)
(α,d)
(α,t)
(α,He-3)
(α,α)
(α,2α)
(α,2p)
(α,p) α
(α,p) d
(α,p) t
Cross Section (barns)
Incident Energy (MeV)
5
27-Co-62

0 Kelvin Cross Sections

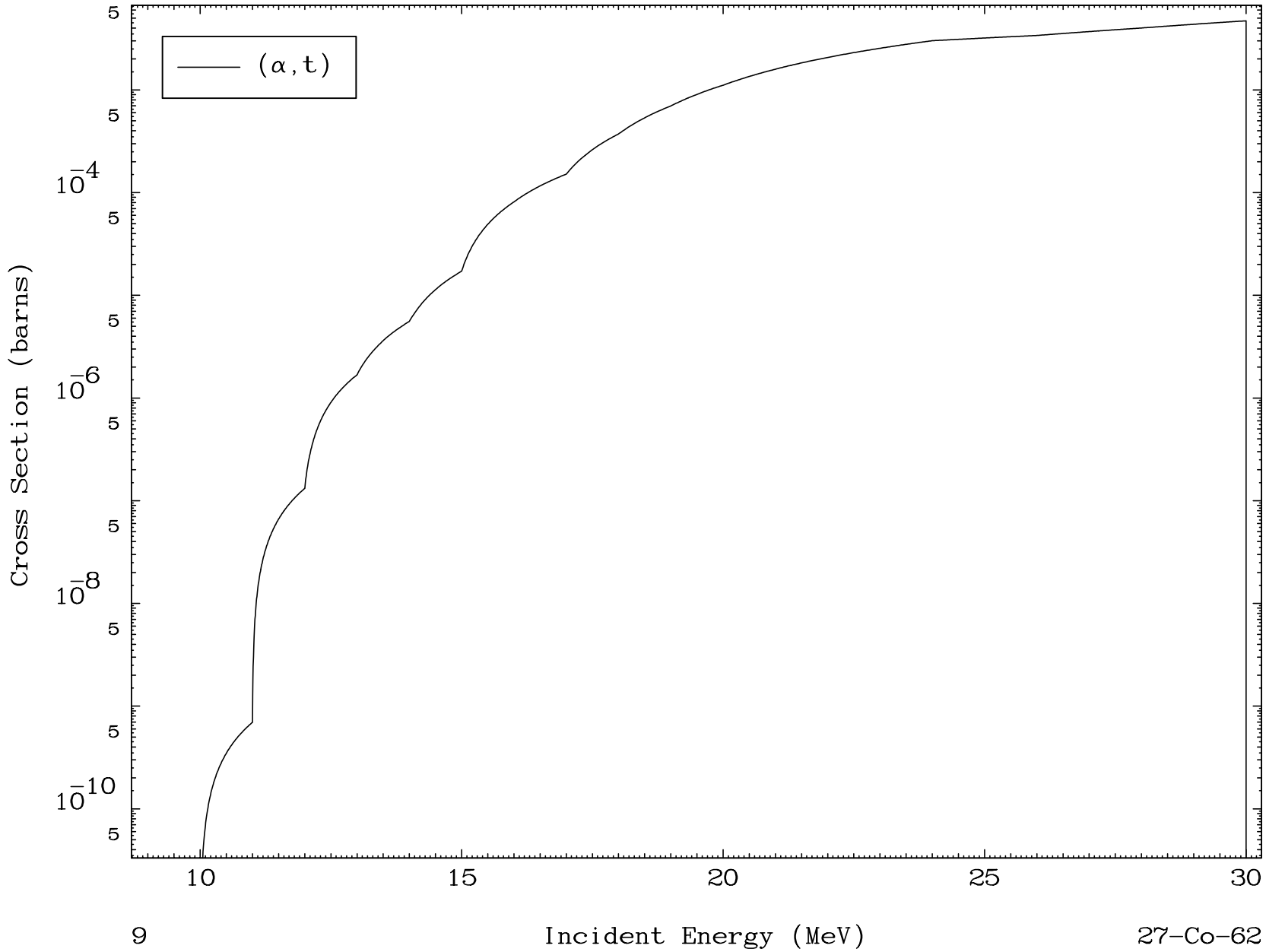


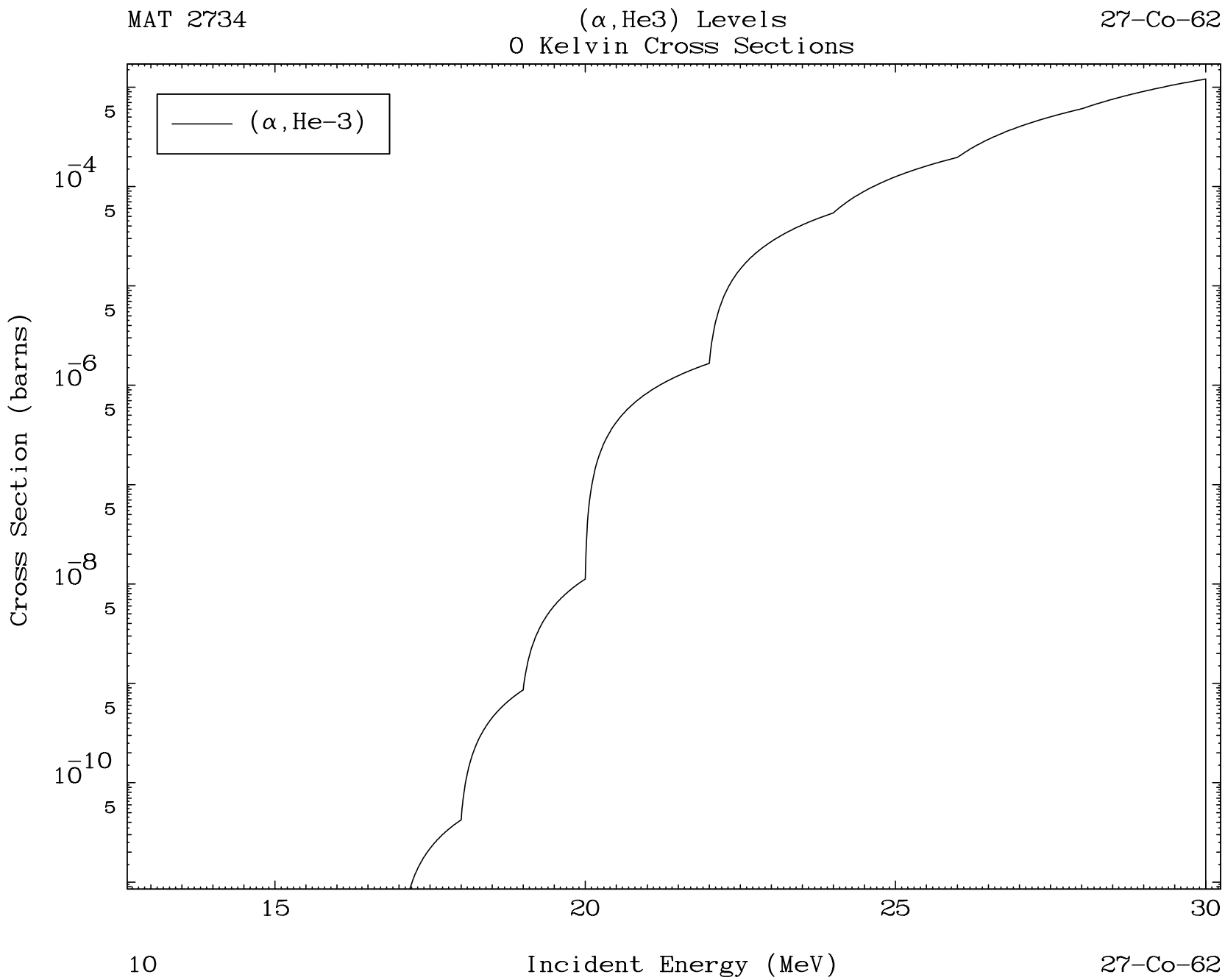

MAT 2734
(α,p) Levels
0 Kelvin Cross Sections
27-Co-62
(α,p)
Cross Section (barns)
Incident Energy (MeV)
7
27-Co-62

0 Kelvin Cross Sections

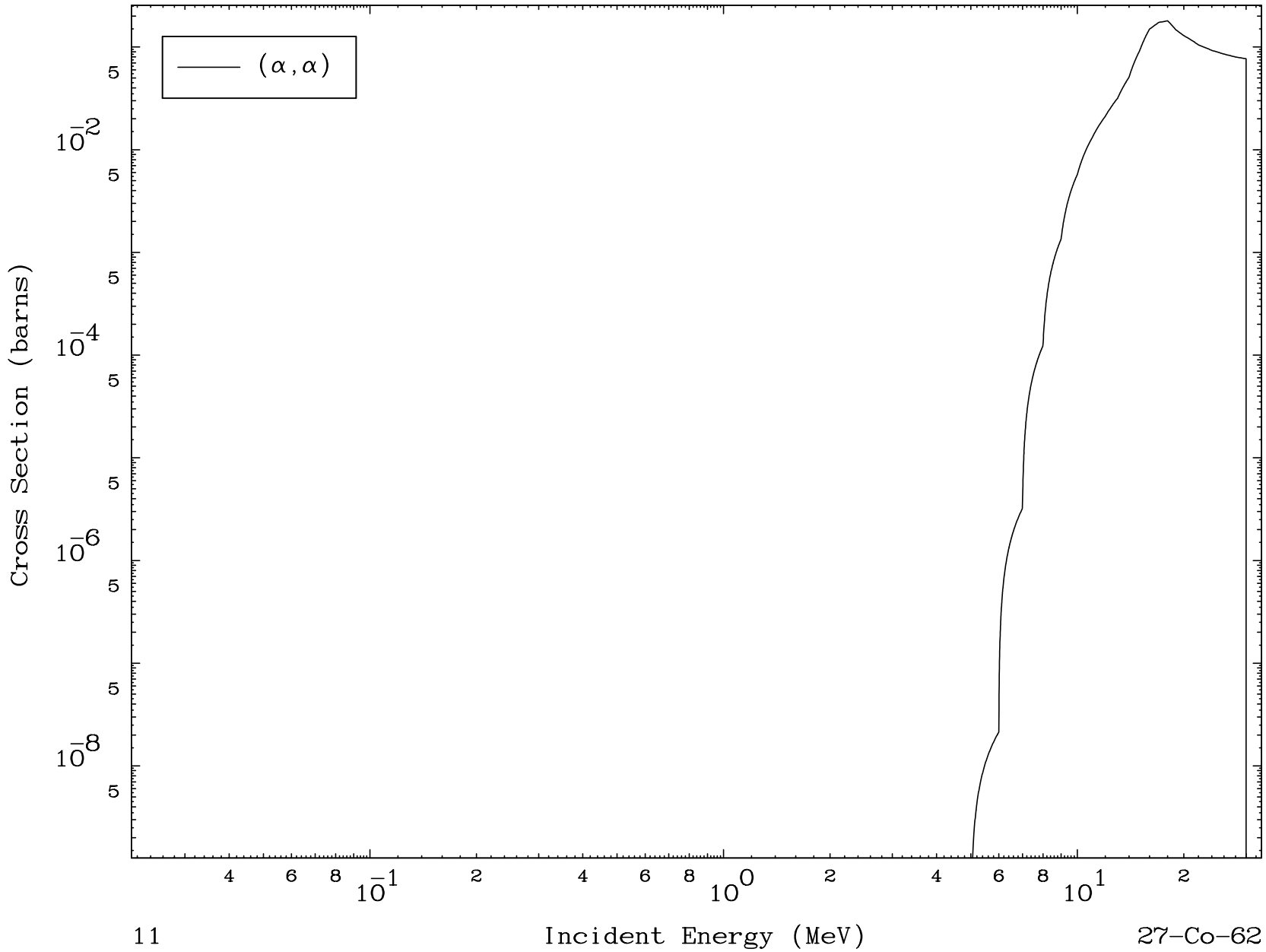


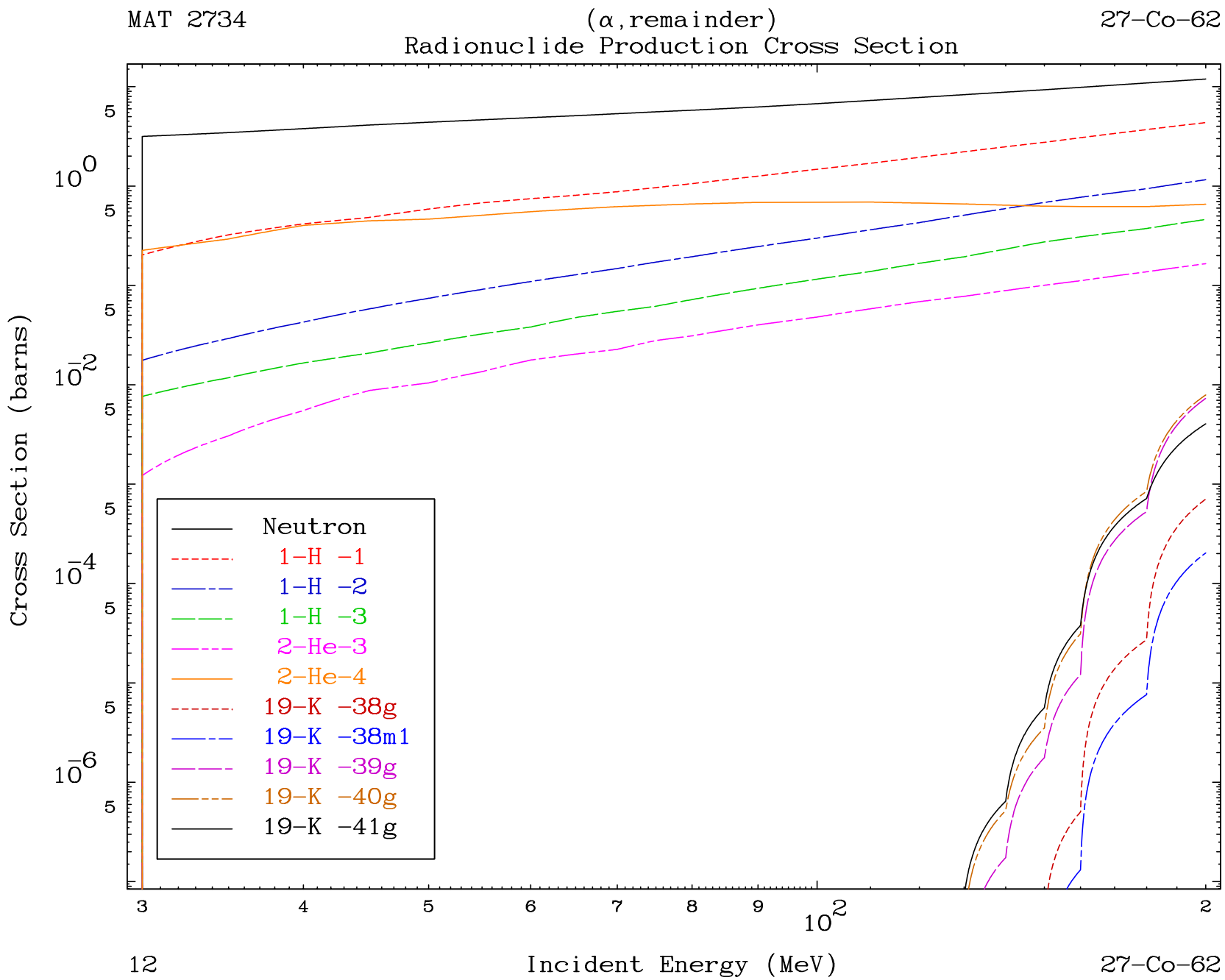
(α,t) Levels
0 Kelvin Cross Sections

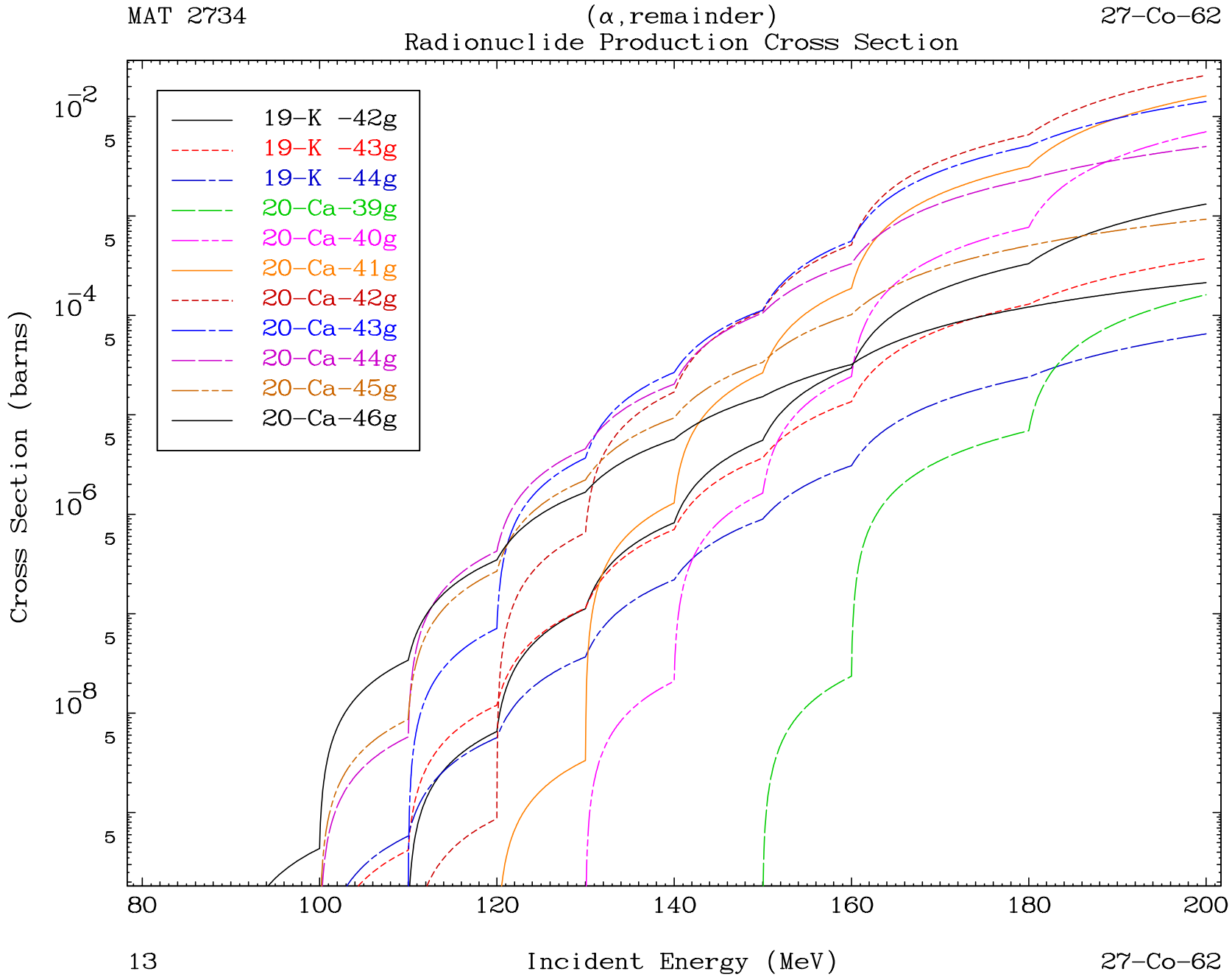



MAT 2734
(α,He3) Levels
0 Kelvin Cross Sections
27-Co-62
(α,He-3)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
15
20
25
30
10
Incident Energy (MeV)
27-Co-62

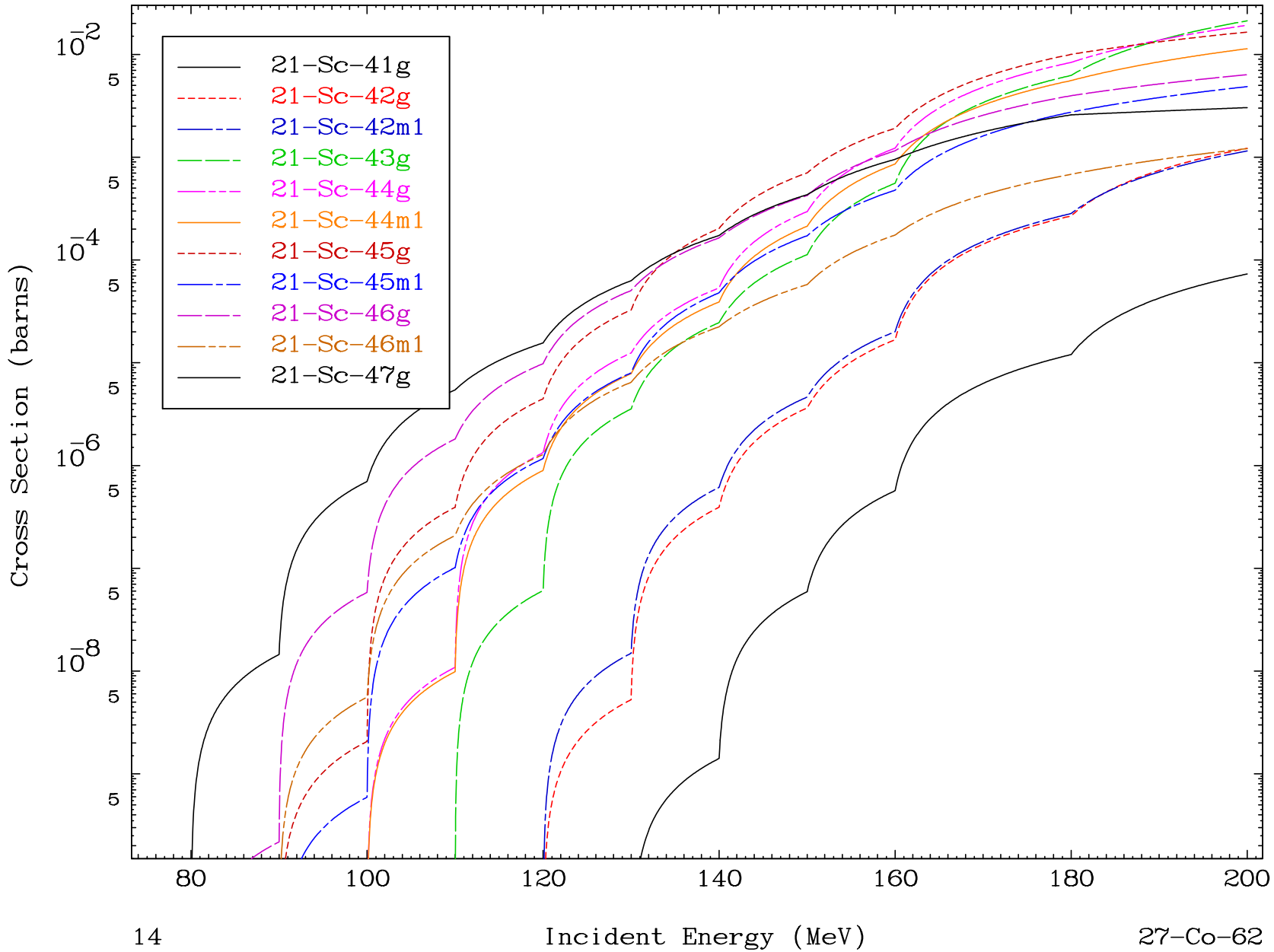
(α,α) Levels
0 Kelvin Cross Sections

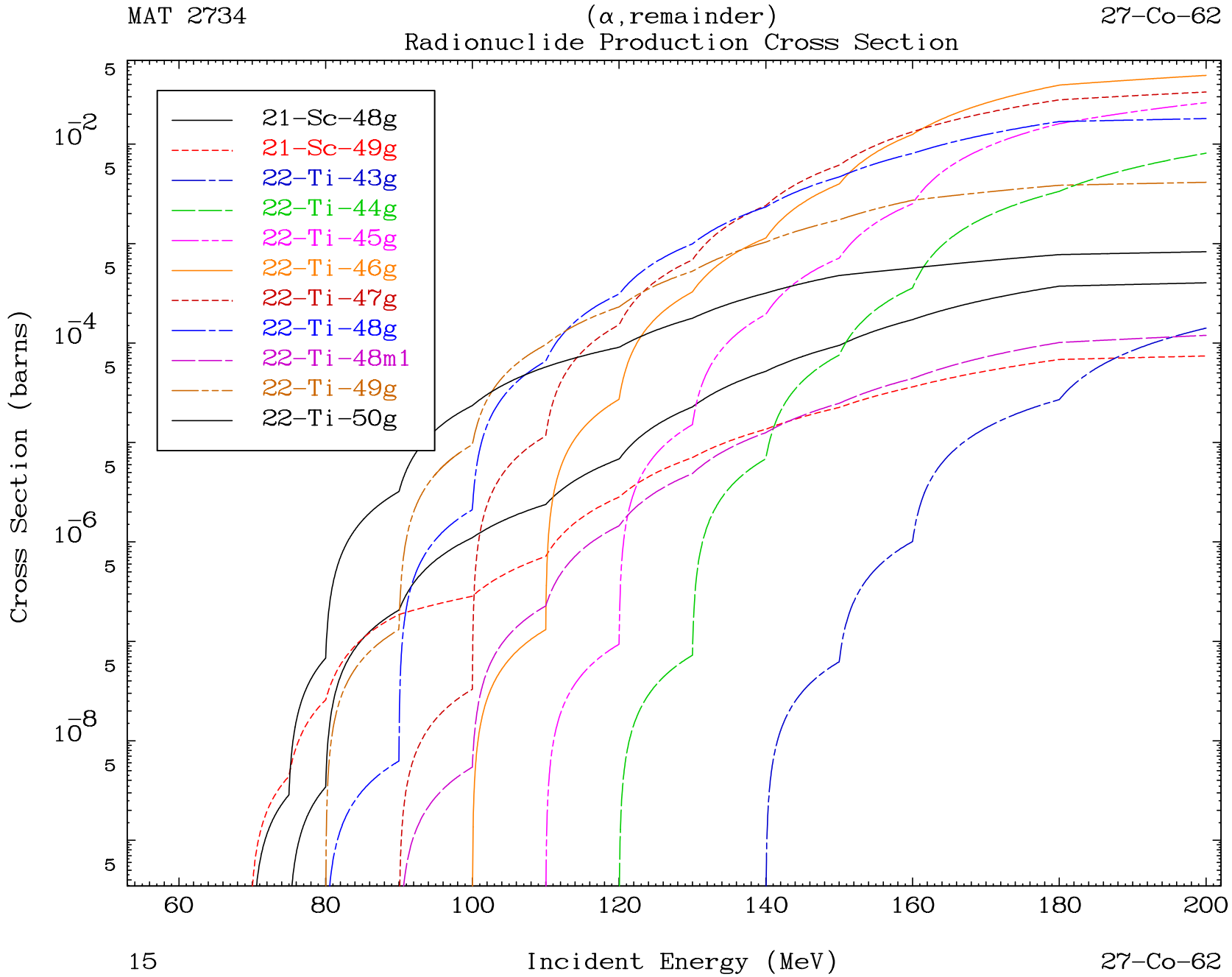


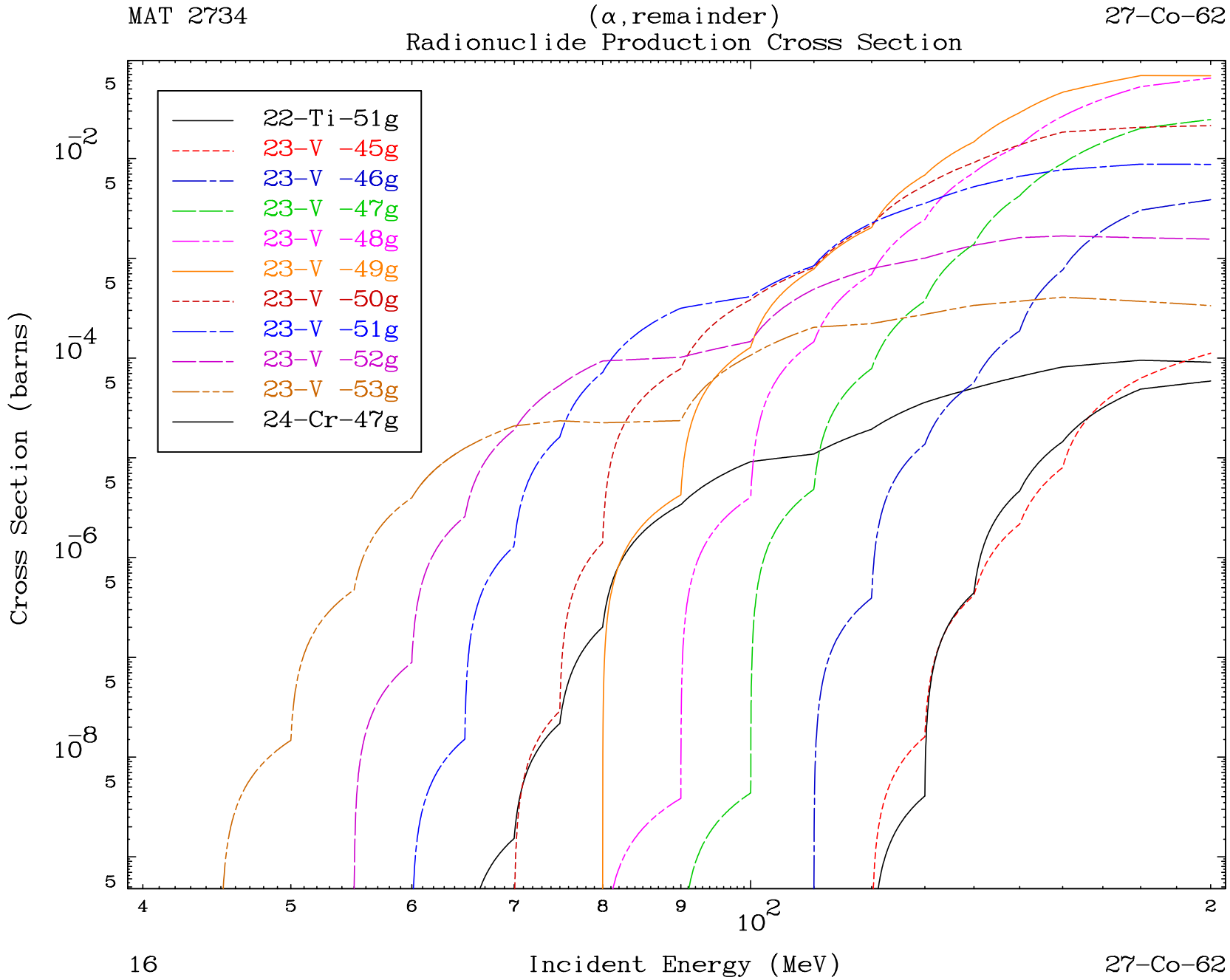

MAT 2734
(α,remainder)
27-Co-62
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
Neutron
1-H -1
1-H -2
1-H -3
2-He-3
2-He-4
19-K -38g
19-K -38m1
19-K -39g
19-K -40g
19-K -41g
12
27-Co-62

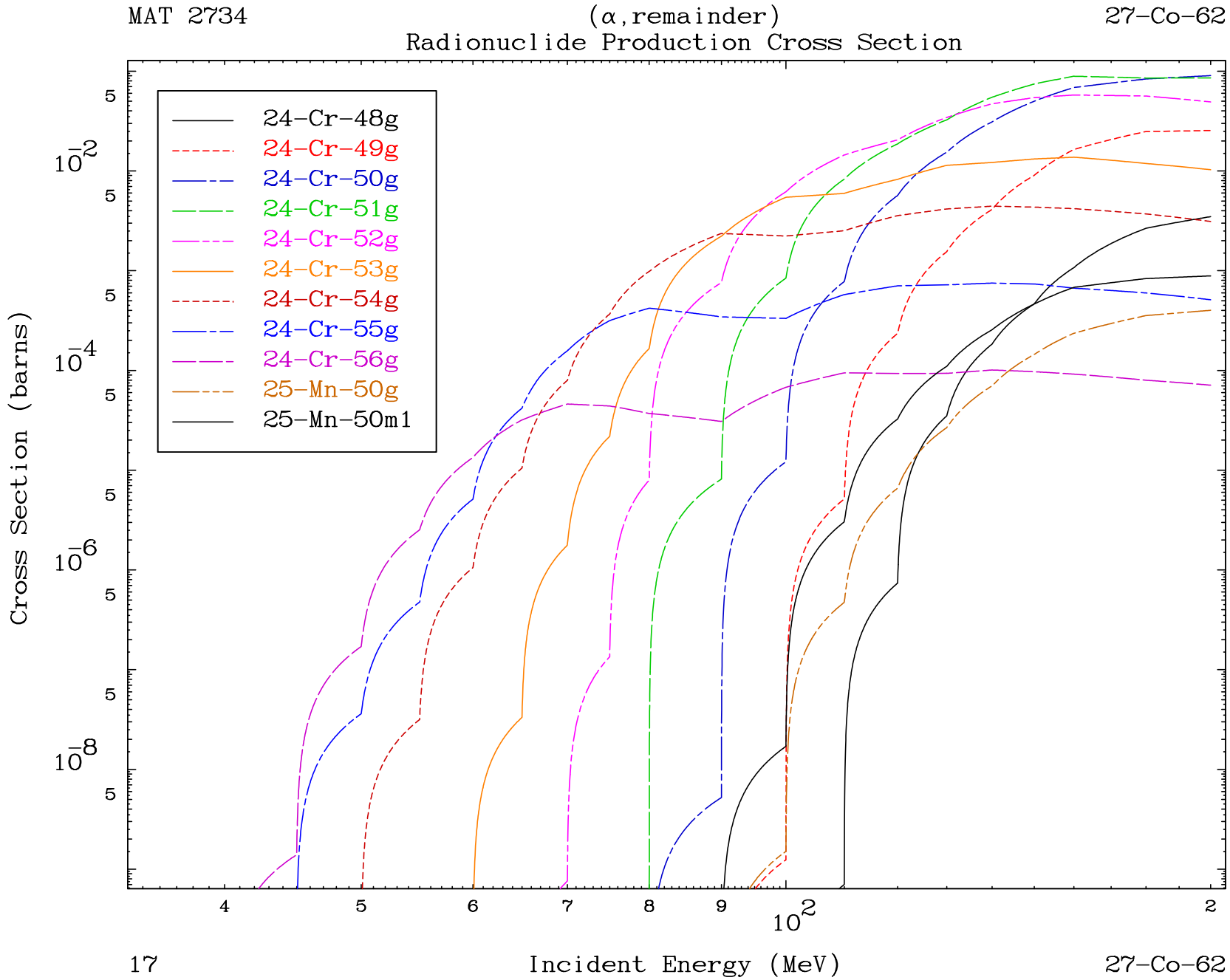

MAT 2734
(α,remainder)
27-Co-62
Radionuclide Production Cross Section
19-K -42g
19-K -43g
19-K -44g
20-Ca-39g
20-Ca-40g
20-Ca-41g
20-Ca-42g
20-Ca-43g
20-Ca-44g
20-Ca-45g
20-Ca-46g
Cross Section (barns)
Incident Energy (MeV)
13
27-Co-62

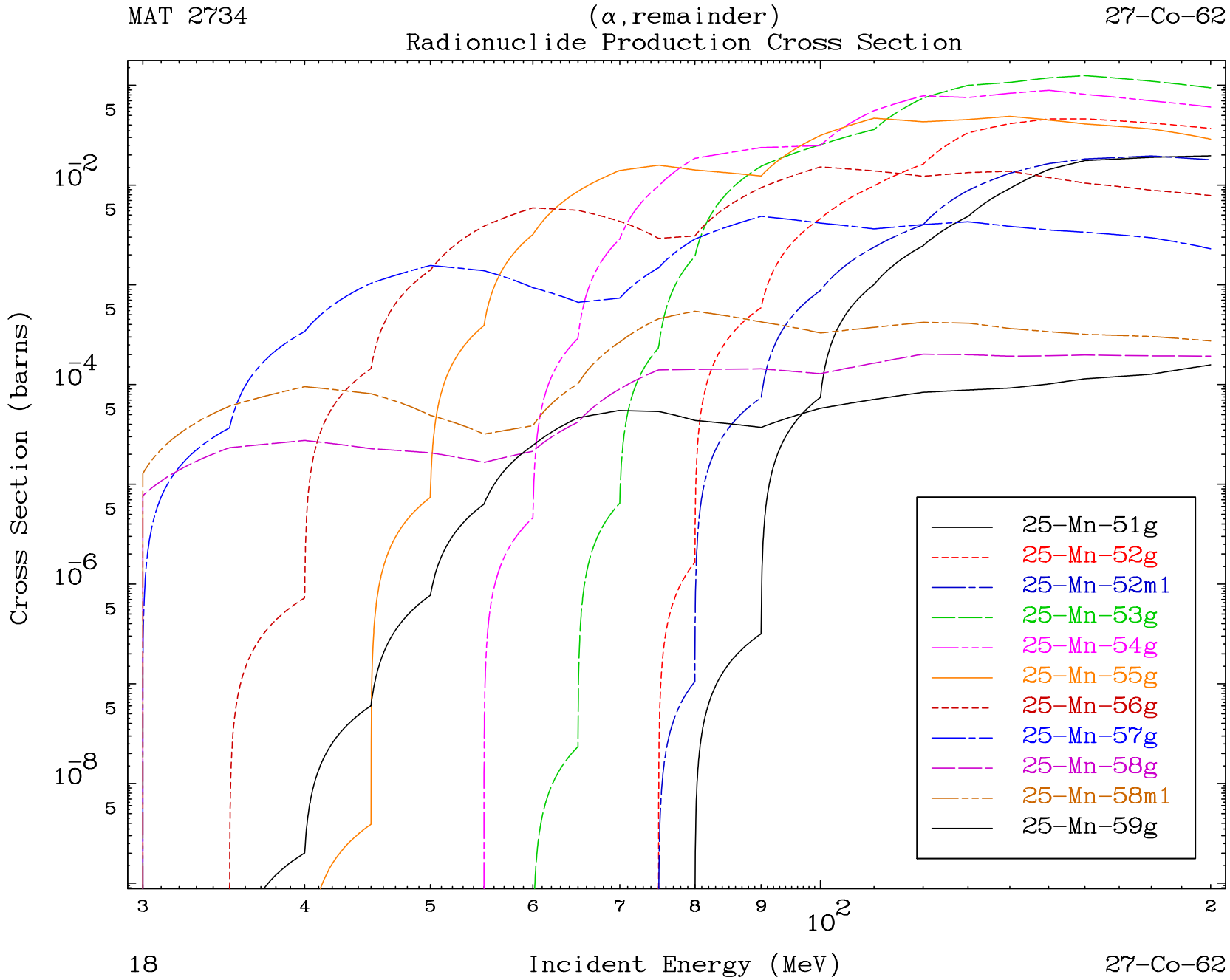
Radionuclide Production Cross Section

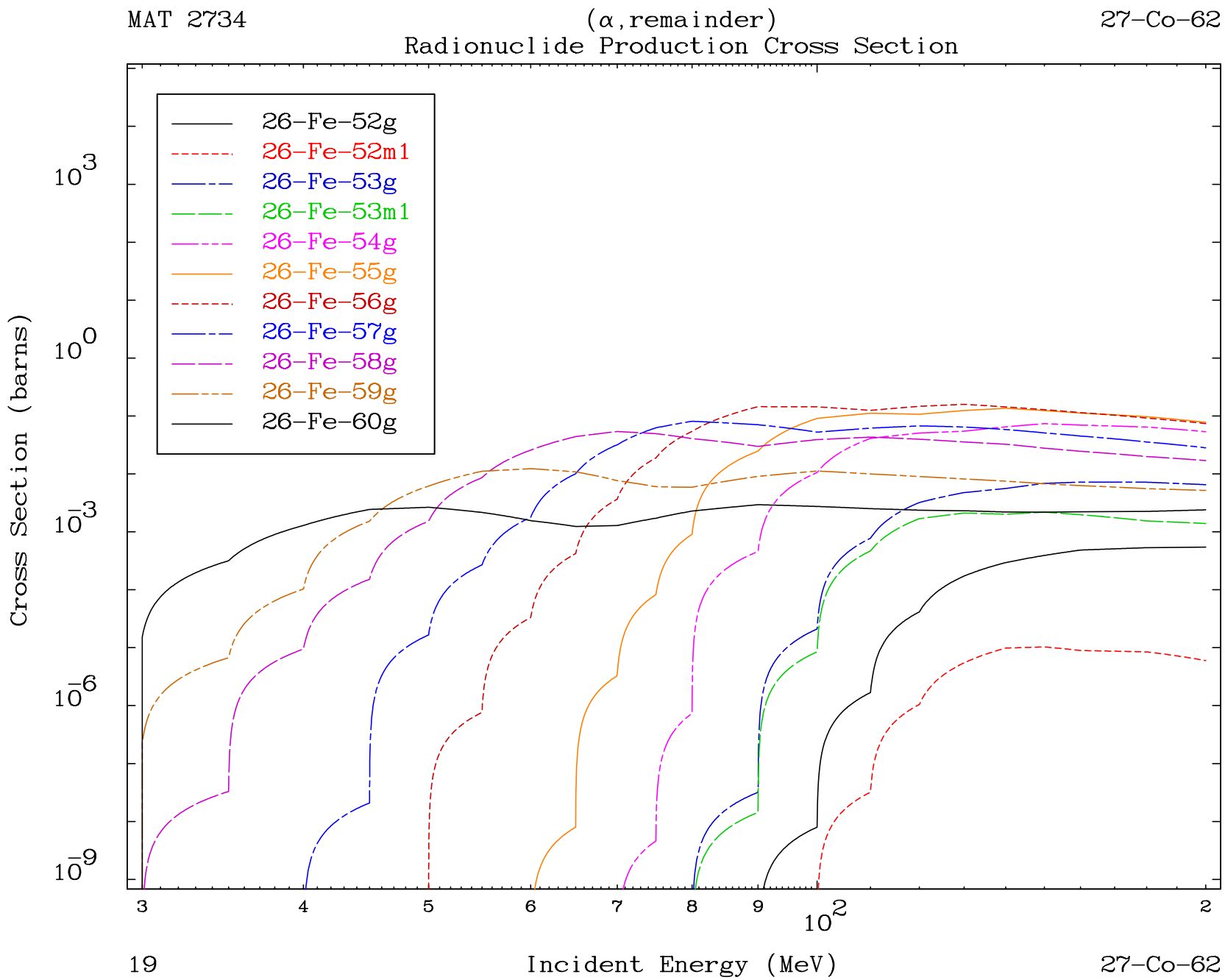


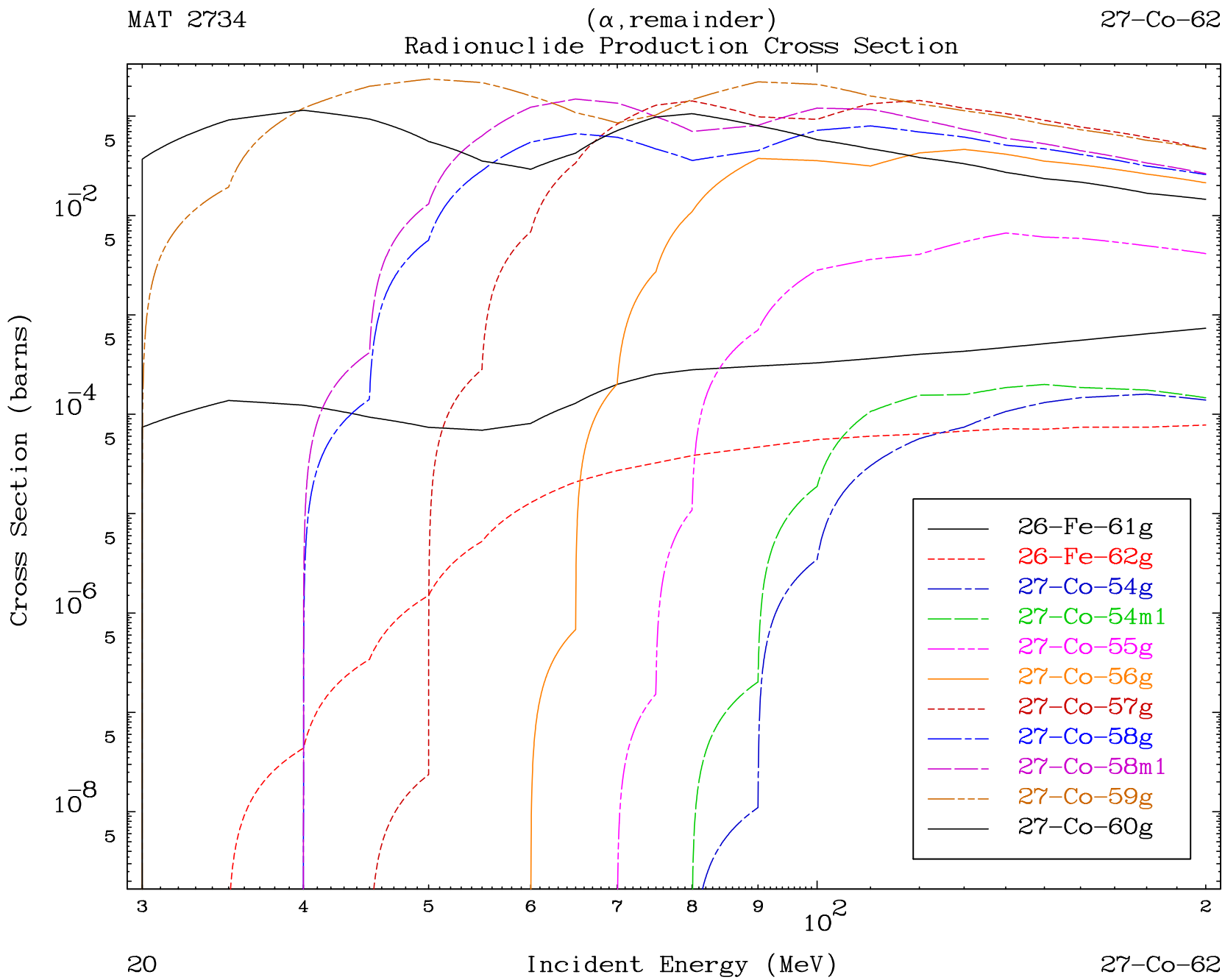

MAT 2734
(α,remainder)
27-Co-62
Radionuclide Production Cross Section
21-Sc-48g
21-Sc-49g
22-Ti-43g
22-Ti-44g
22-Ti-45g
22-Ti-46g
22-Ti-47g
22-Ti-48g
22-Ti-48m1
22-Ti-49g
22-Ti-50g
Cross Section (barns)
Incident Energy (MeV)
60
80
100
120
140
160
180
200
15
27-Co-62

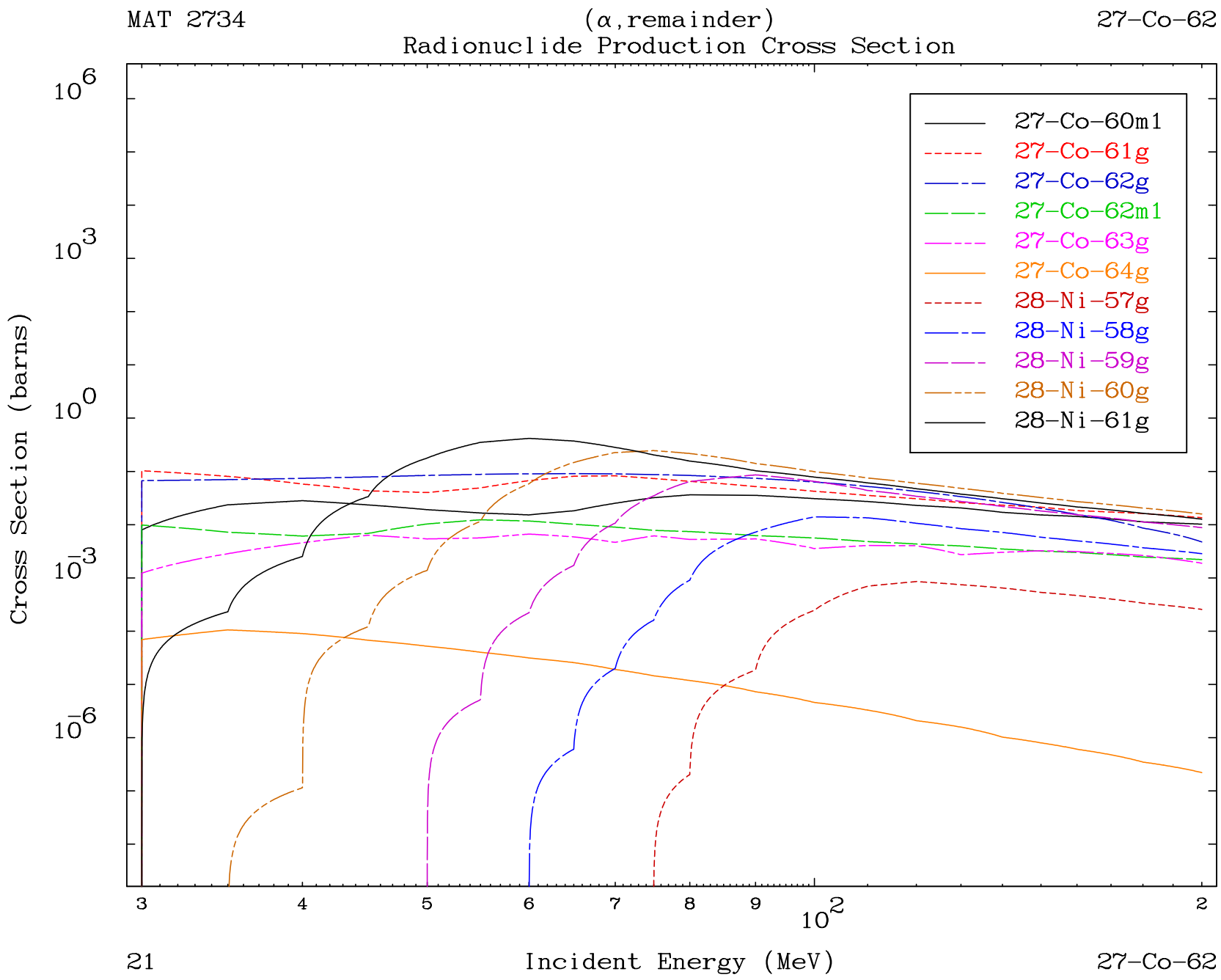

MAT 2734
(α,remainder)
27-Co-62
Radionuclide Production Cross Section
22-Ti-51g
23-V -45g
23-V -46g
23-V -47g
23-V -48g
23-V -49g
23-V -50g
23-V -51g
23-V -52g
23-V -53g
24-Cr-47g
Cross Section (barns)
Incident Energy (MeV)
16
27-Co-62

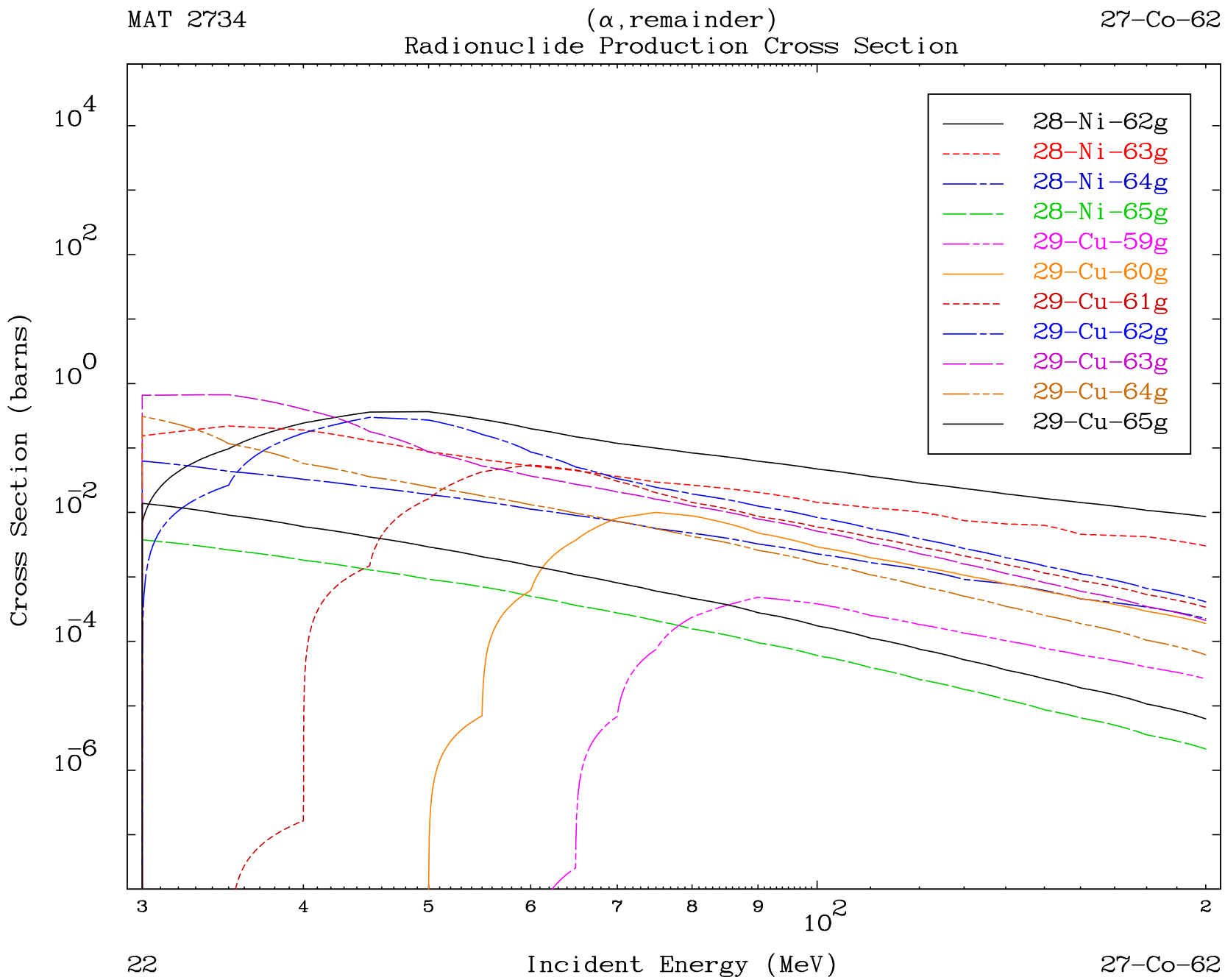

MAT 2734
(α,remainder)
27-Co-62
Radionuclide Production Cross Section
24-Cr-48g
24-Cr-49g
24-Cr-50g
24-Cr-51g
24-Cr-52g
24-Cr-53g
24-Cr-54g
24-Cr-55g
24-Cr-56g
25-Mn-50g
25-Mn-50m1
Cross Section (barns)
Incident Energy (MeV)
17
27-Co-62

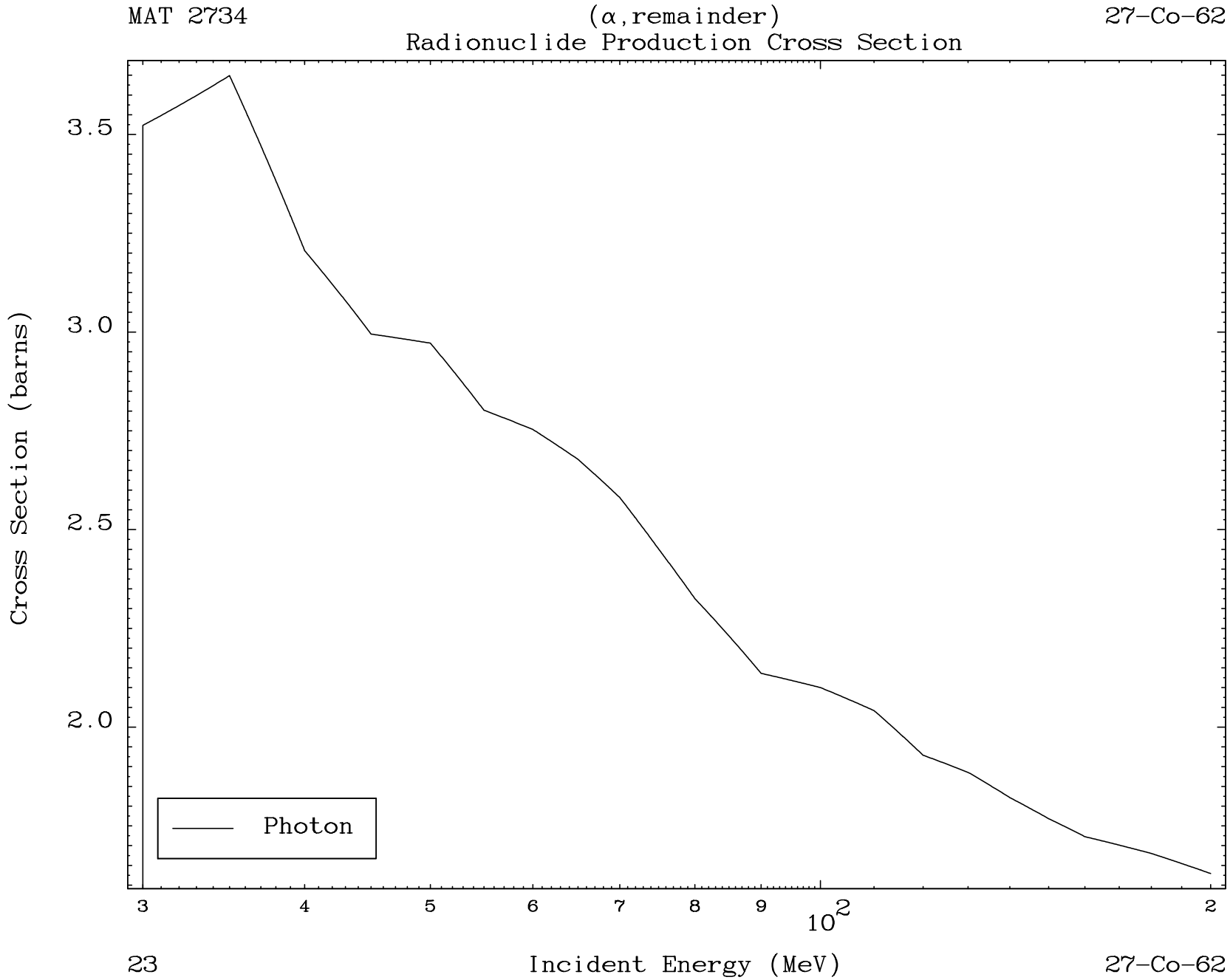

MAT 2734
(α,remainder)
Radionuclide Production Cross Section
27-Co-62
Cross Section (barns)
Incident Energy (MeV)
25-Mn-51g
25-Mn-52g
25-Mn-52m1
25-Mn-53g
25-Mn-54g
25-Mn-55g
25-Mn-56g
25-Mn-57g
25-Mn-58g
25-Mn-58m1
25-Mn-59g
18
27-Co-62

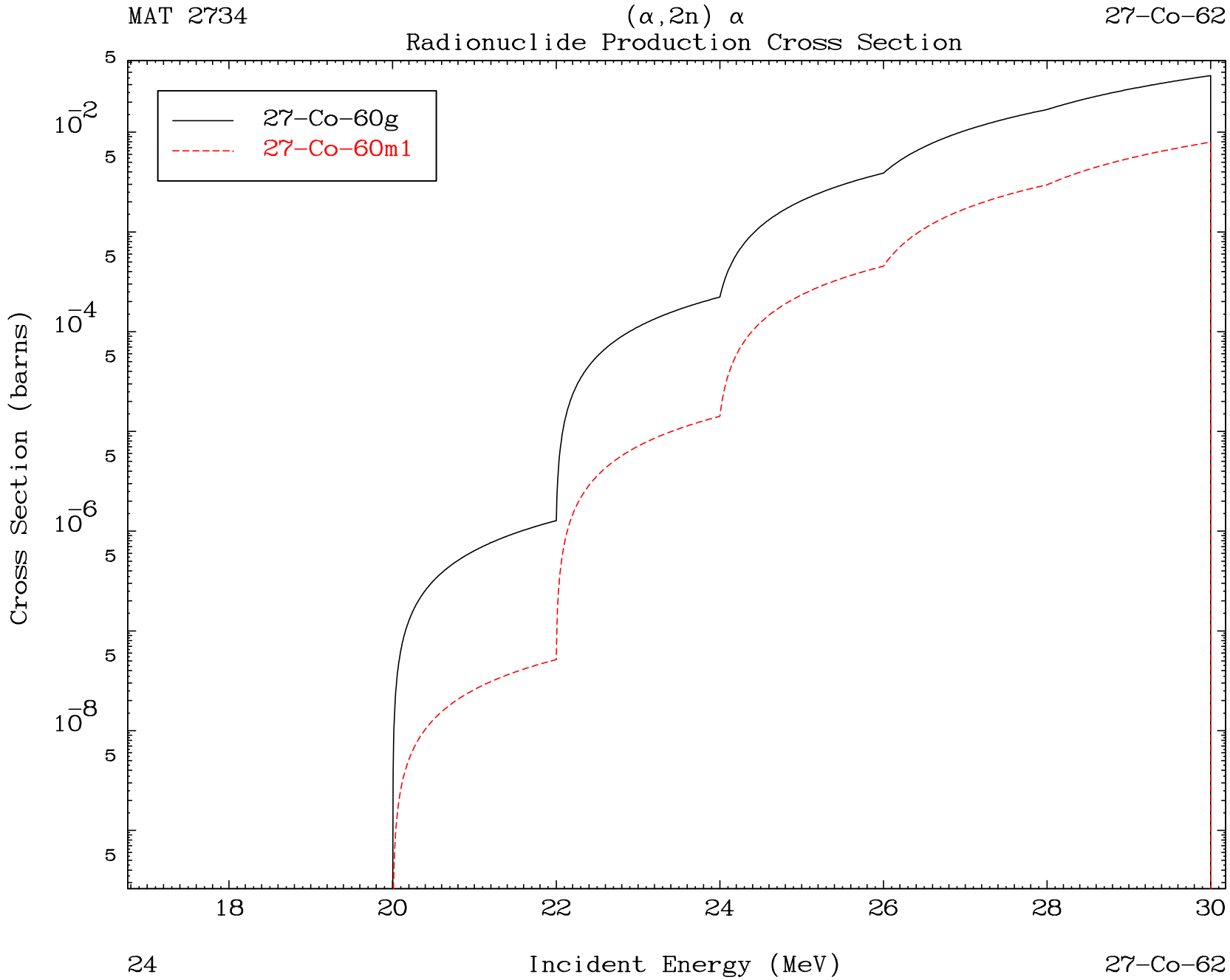

MAT 2734
(α,remainder)
27-Co-62
Radionuclide Production Cross Section
26-Fe-52g
26-Fe-52m1
26-Fe-53g
26-Fe-53m1
26-Fe-54g
26-Fe-55g
26-Fe-56g
26-Fe-57g
26-Fe-58g
26-Fe-59g
26-Fe-60g
Cross Section (barns)
10^3
10^0
10^-3
10^-6
10^-9
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
19
27-Co-62

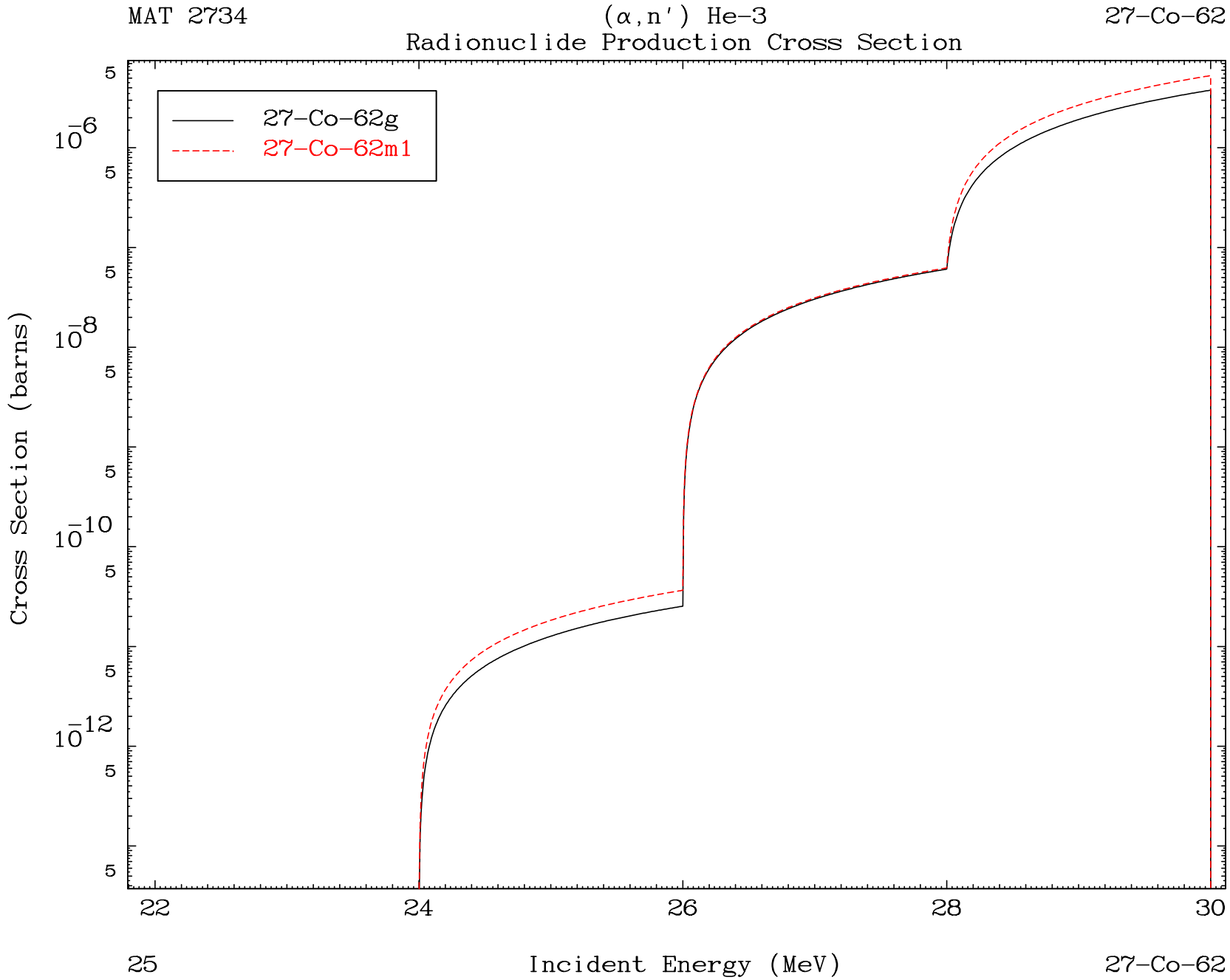

MAT 2734
(α,remainder)
27-Co-62
Radionuclide Production Cross Section
Cross Section (barns)
Incident Energy (MeV)
26-Fe-61g
26-Fe-62g
27-Co-54g
27-Co-54m1
27-Co-55g
27-Co-56g
27-Co-57g
27-Co-58g
27-Co-58m1
27-Co-59g
27-Co-60g
20
27-Co-62

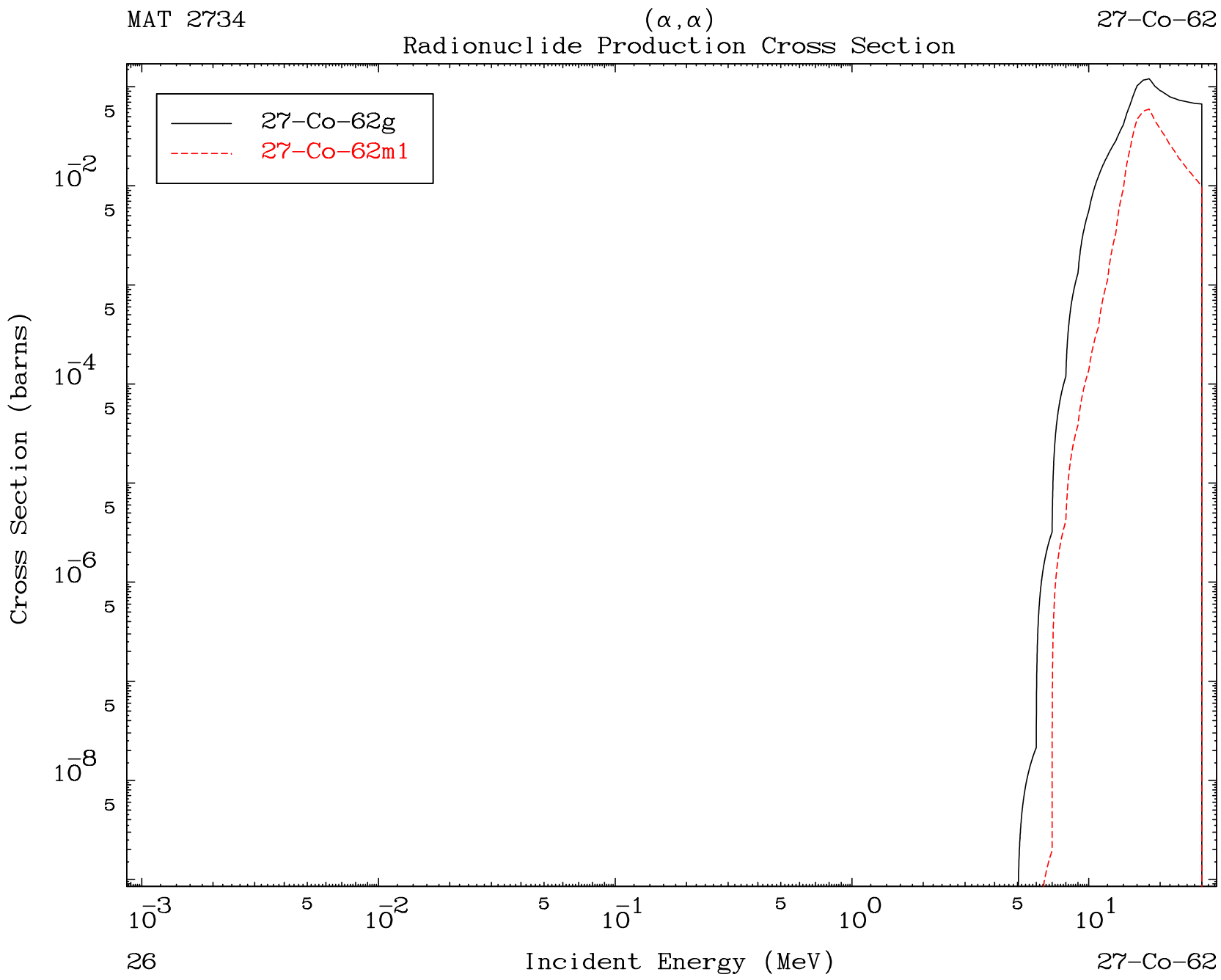

MAT 2734
(α,remainder)
27-Co-62
Radionuclide Production Cross Section
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
27-Co-60m1
27-Co-61g
27-Co-62g
27-Co-62m1
27-Co-63g
27-Co-64g
28-Ni-57g
28-Ni-58g
28-Ni-59g
28-Ni-60g
28-Ni-61g
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
21
27-Co-62

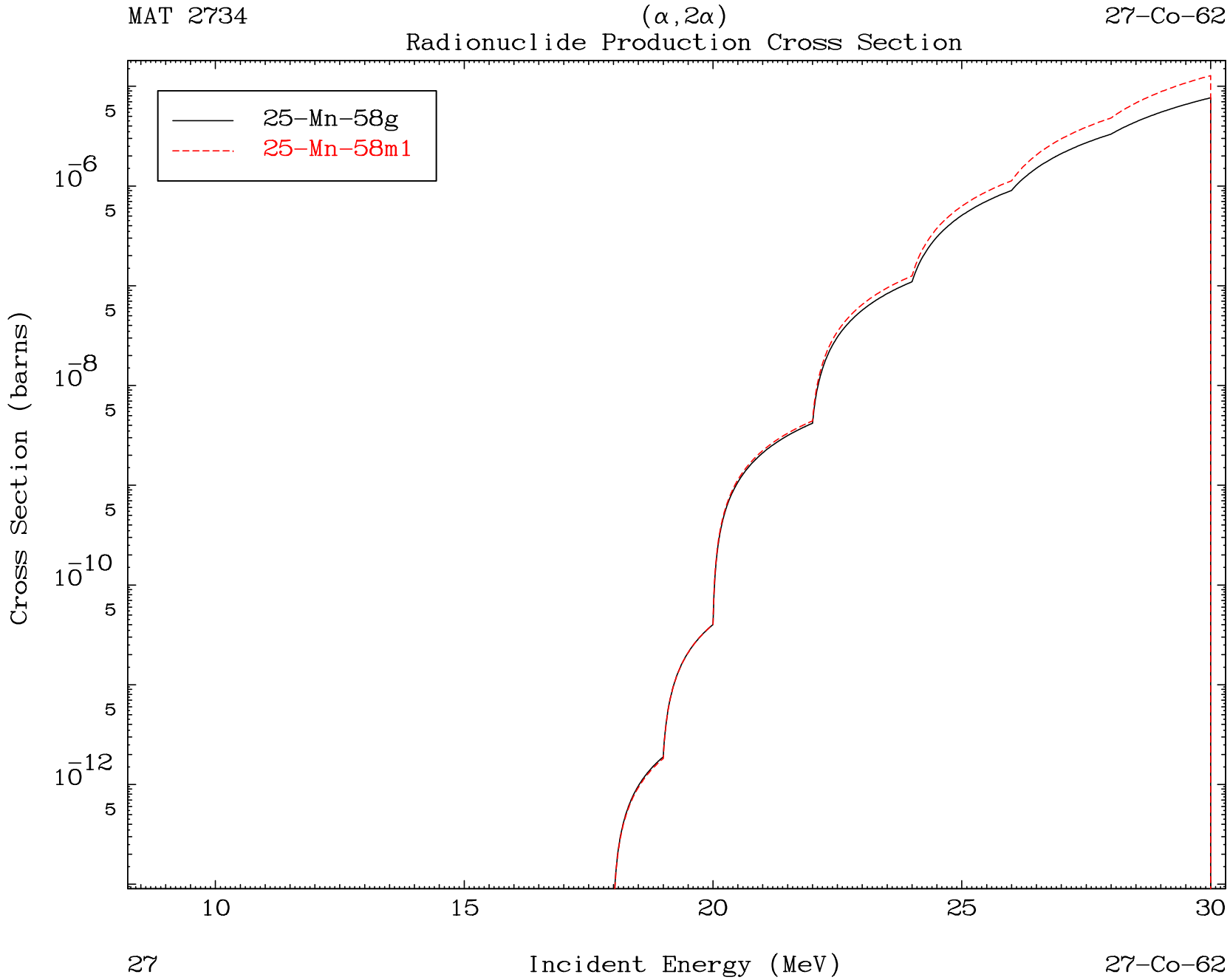

MAT 2734
(α,remainder)
27-Co-62
Radionuclide Production Cross Section
Cross Section (barns)
10^4
10^2
10^0
10^-2
10^-4
10^-6
28-Ni-62g
28-Ni-63g
28-Ni-64g
28-Ni-65g
29-Cu-59g
29-Cu-60g
29-Cu-61g
29-Cu-62g
29-Cu-63g
29-Cu-64g
29-Cu-65g
3
4
5
6
7
8
9
10^2
2
22
Incident Energy (MeV)
27-Co-62

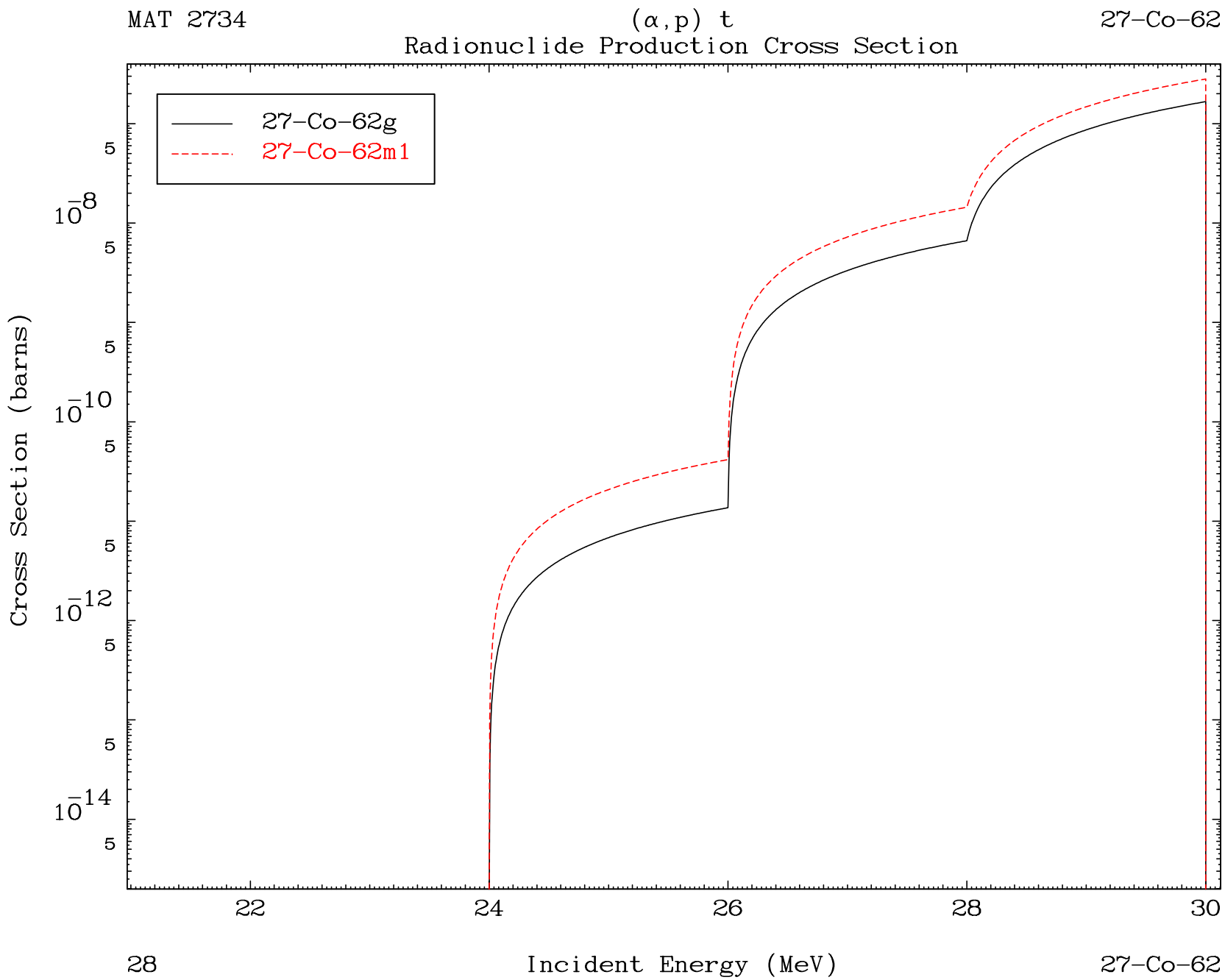

MAT 2734
(α,remainder)
27-Co-62
Radionuclide Production Cross Section
Cross Section (barns)
3.5
3.0
2.5
2.0
Photon
3
4
5
6
7
8
9
10^2
2
23
Incident Energy (MeV)
27-Co-62


MAT 2734
(α,2n) α
27-Co-62
Radionuclide Production Cross Section
27-Co-60g
27-Co-60m1
Cross Section (barns)
Incident Energy (MeV)
24
27-Co-62


MAT 2734
(α,n') He-3
27-Co-62
Radionuclide Production Cross Section
27-Co-62g
27-Co-62m1
Cross Section (barns)
Incident Energy (MeV)
25
27-Co-62
22
24
26
28
30
10^-6
10^-8
10^-10
10^-12
5


MAT 2734
(α,α)
27-Co-62
Radionuclide Production Cross Section
27-Co-62g
27-Co-62m1
Cross Section (barns)
Incident Energy (MeV)
26
27-Co-62


MAT 2734
(α,2α)
27-Co-62
Radionuclide Production Cross Section
25-Mn-58g
25-Mn-58m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
10
15
20
25
30
27
Incident Energy (MeV)
27-Co-62


MAT 2734
(α,p) t
27-Co-62
Radionuclide Production Cross Section
27-Co-62g
27-Co-62m1
Cross Section (barns)
10⁻⁸
10⁻¹⁰
10⁻¹²
10⁻¹⁴
5
22
24
26
28
30
Incident Energy (MeV)
28
27-Co-62