Program EVALPLOT
(Version 2021-1)
by
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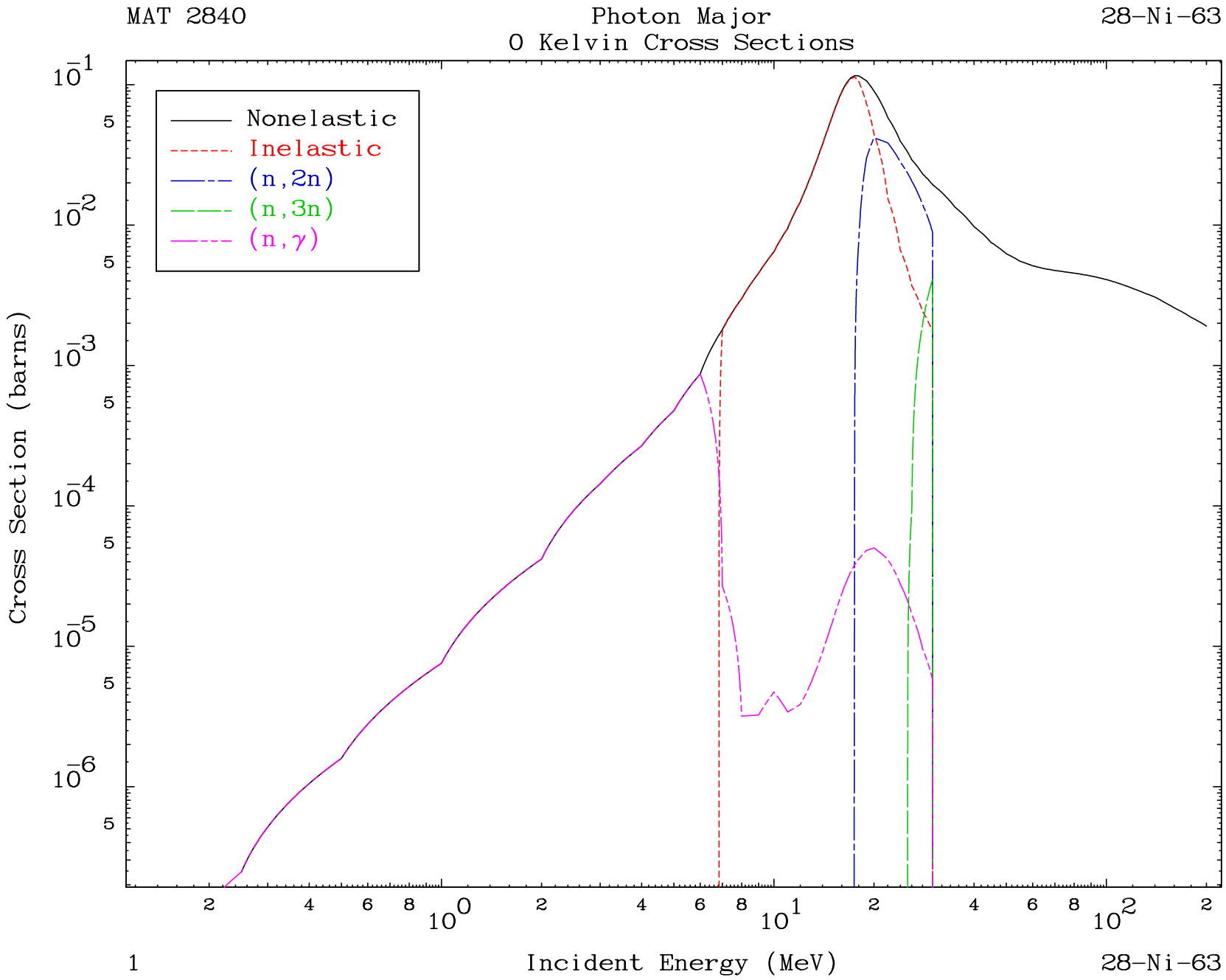
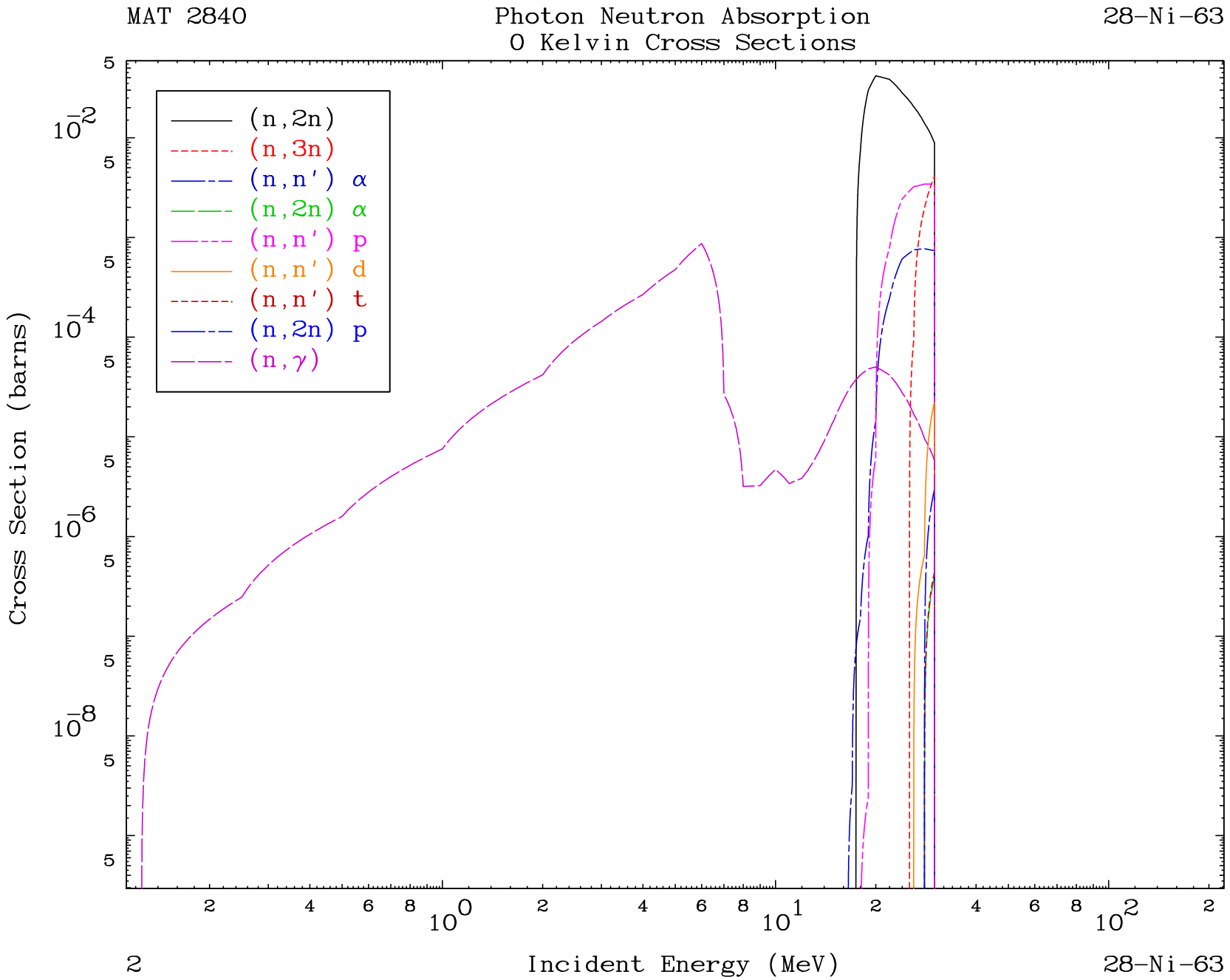
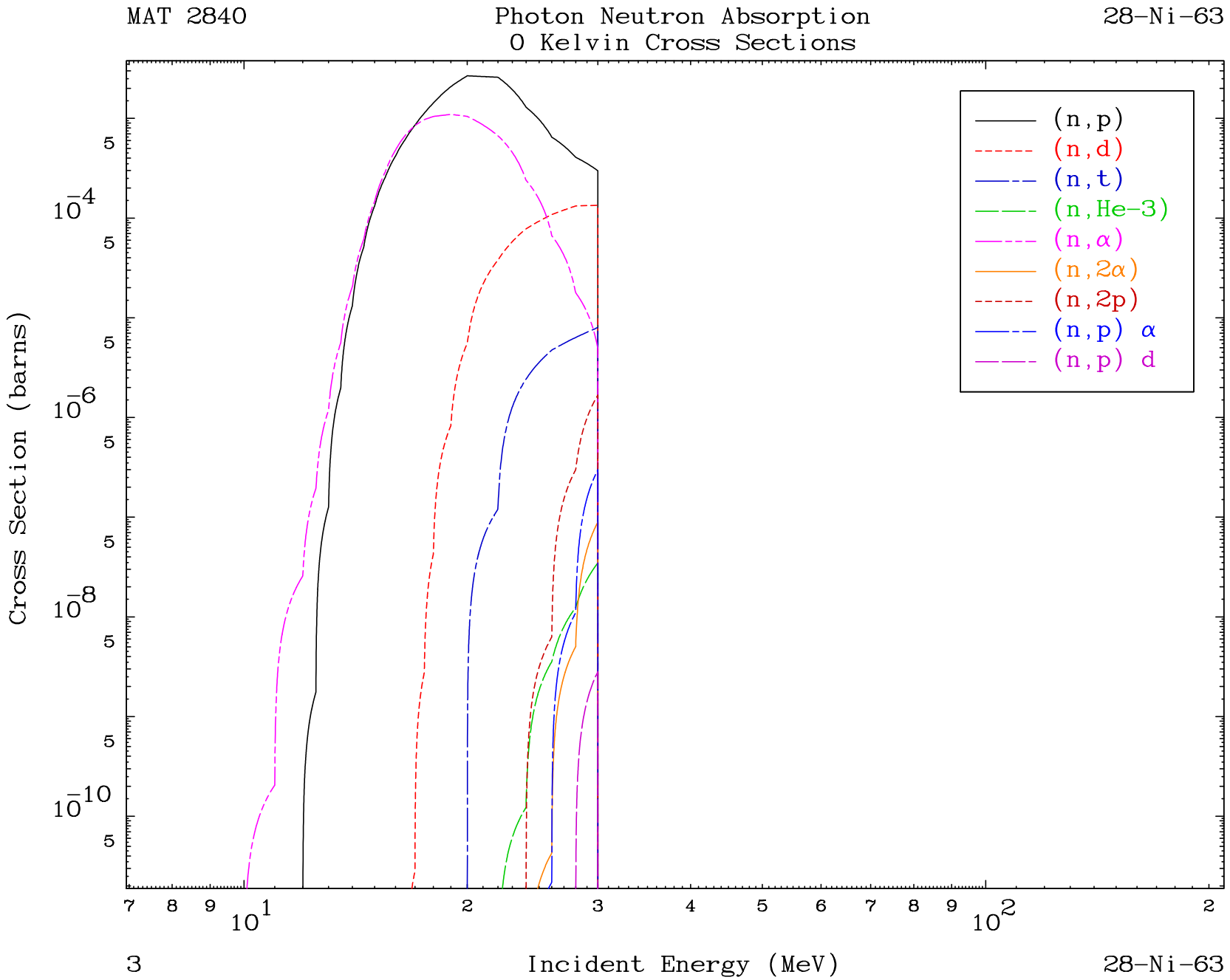
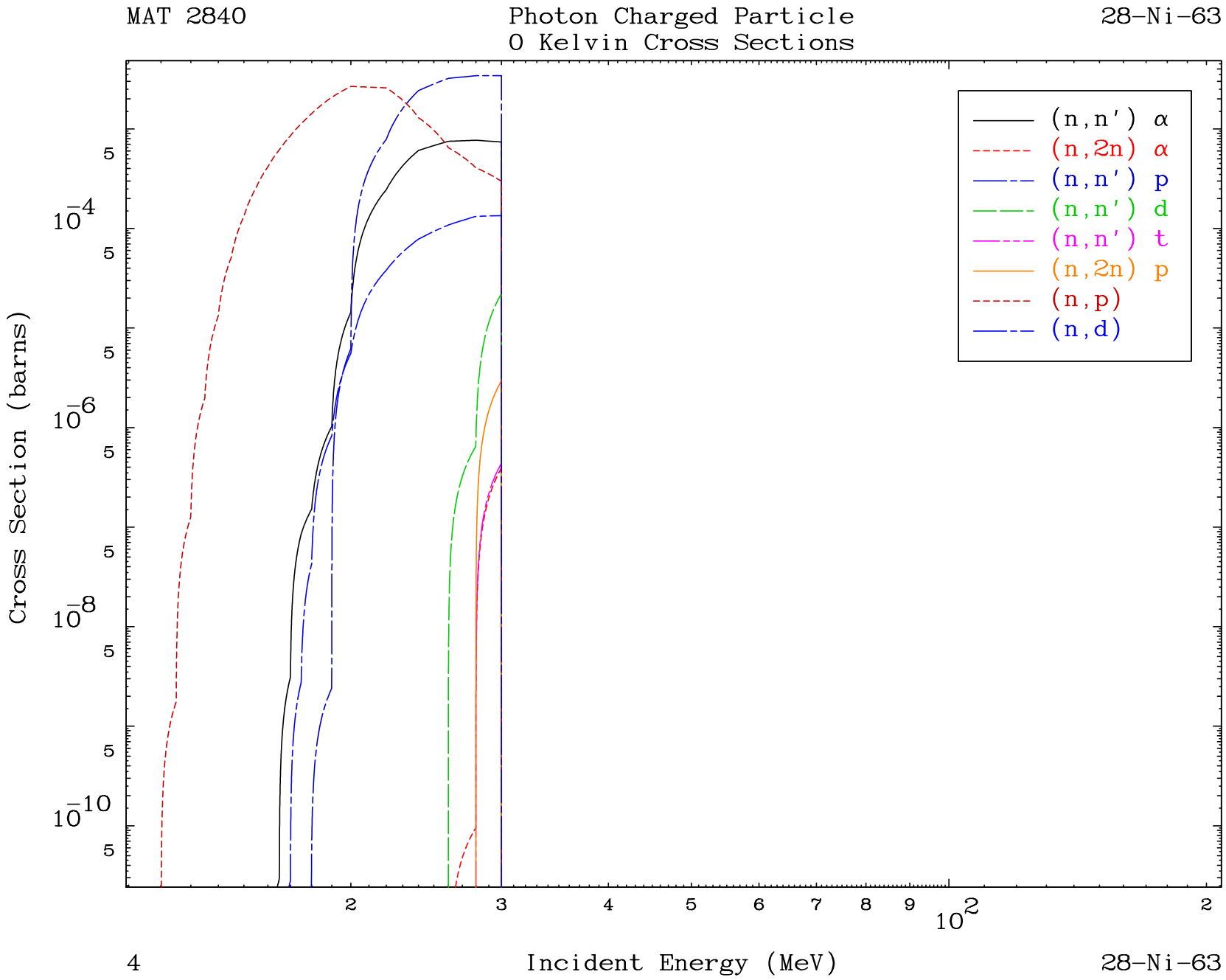
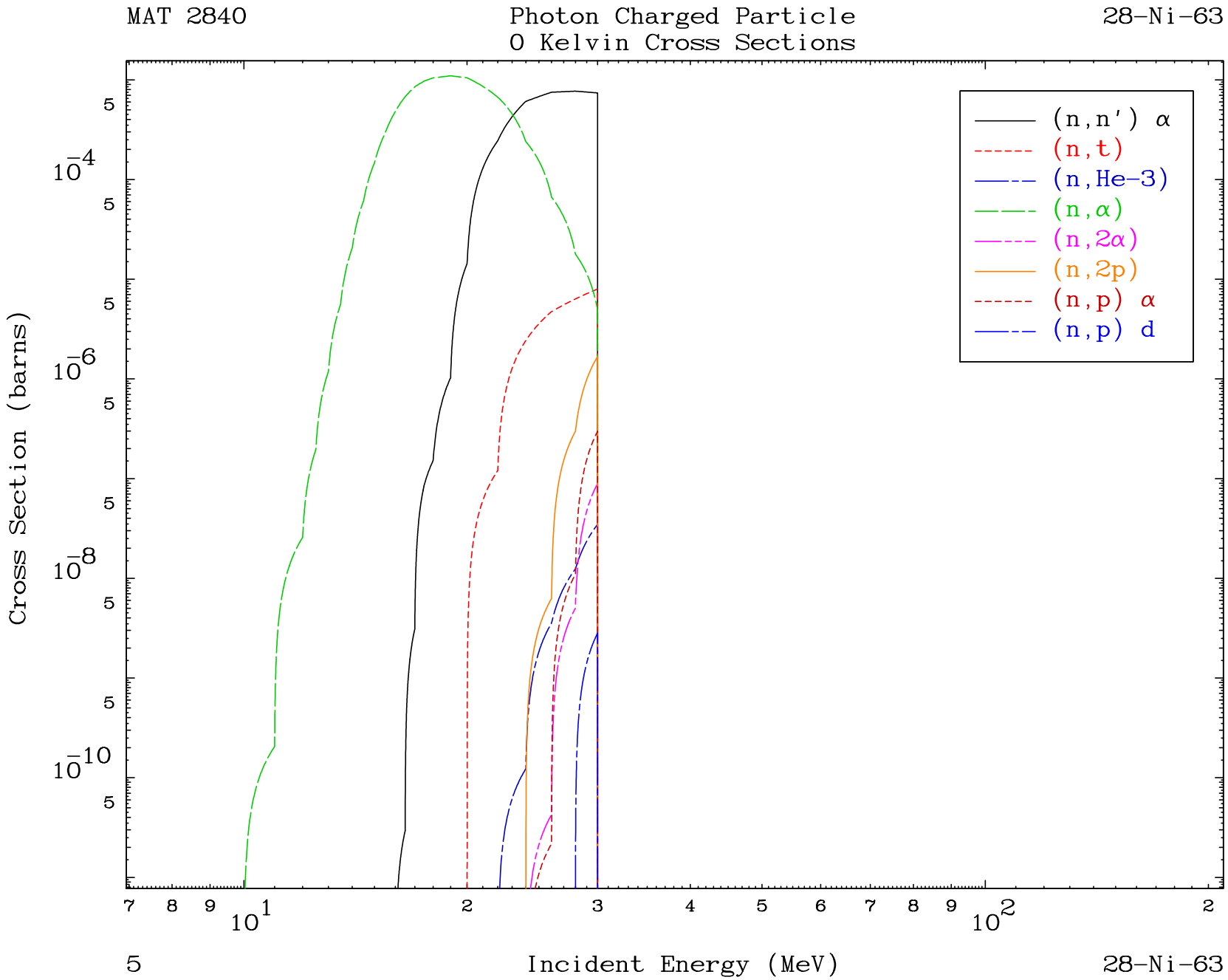
Press Mouse Button to Start

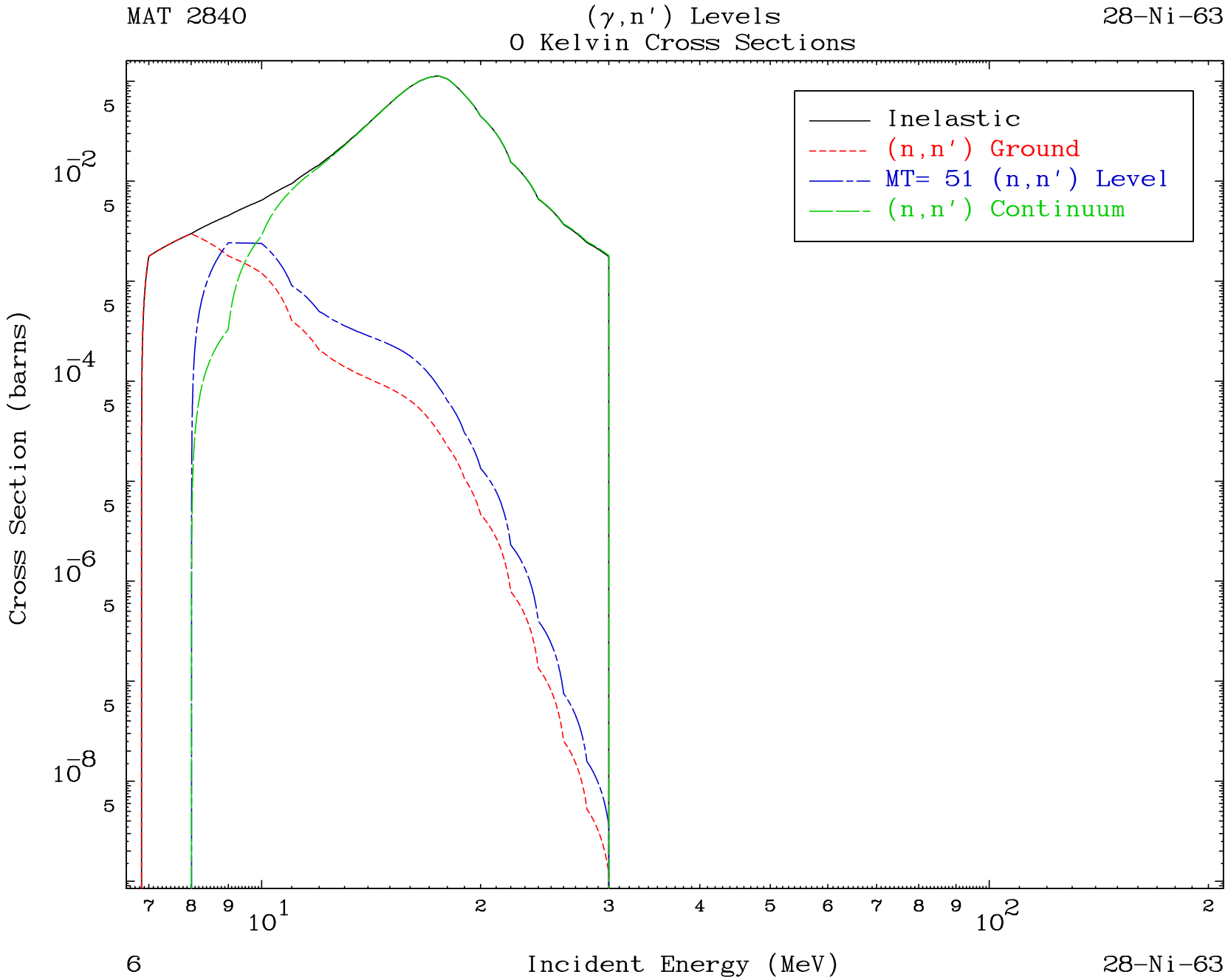

MAT 2840
Photon Major
28-Ni-63
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
28-Ni-63

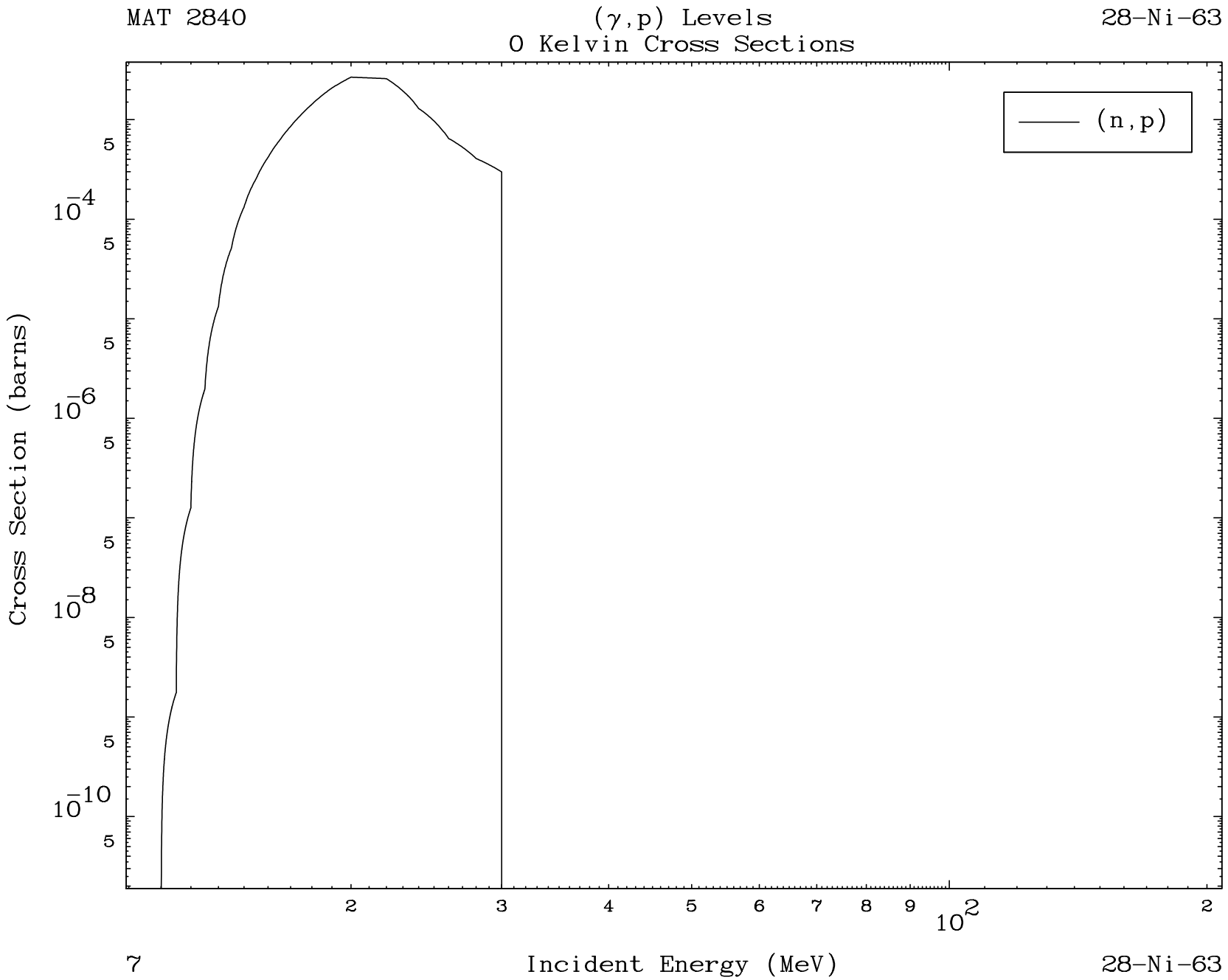

MAT 2840
Photon Neutron Absorption
0 Kelvin Cross Sections
28-Ni-63
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
28-Ni-63

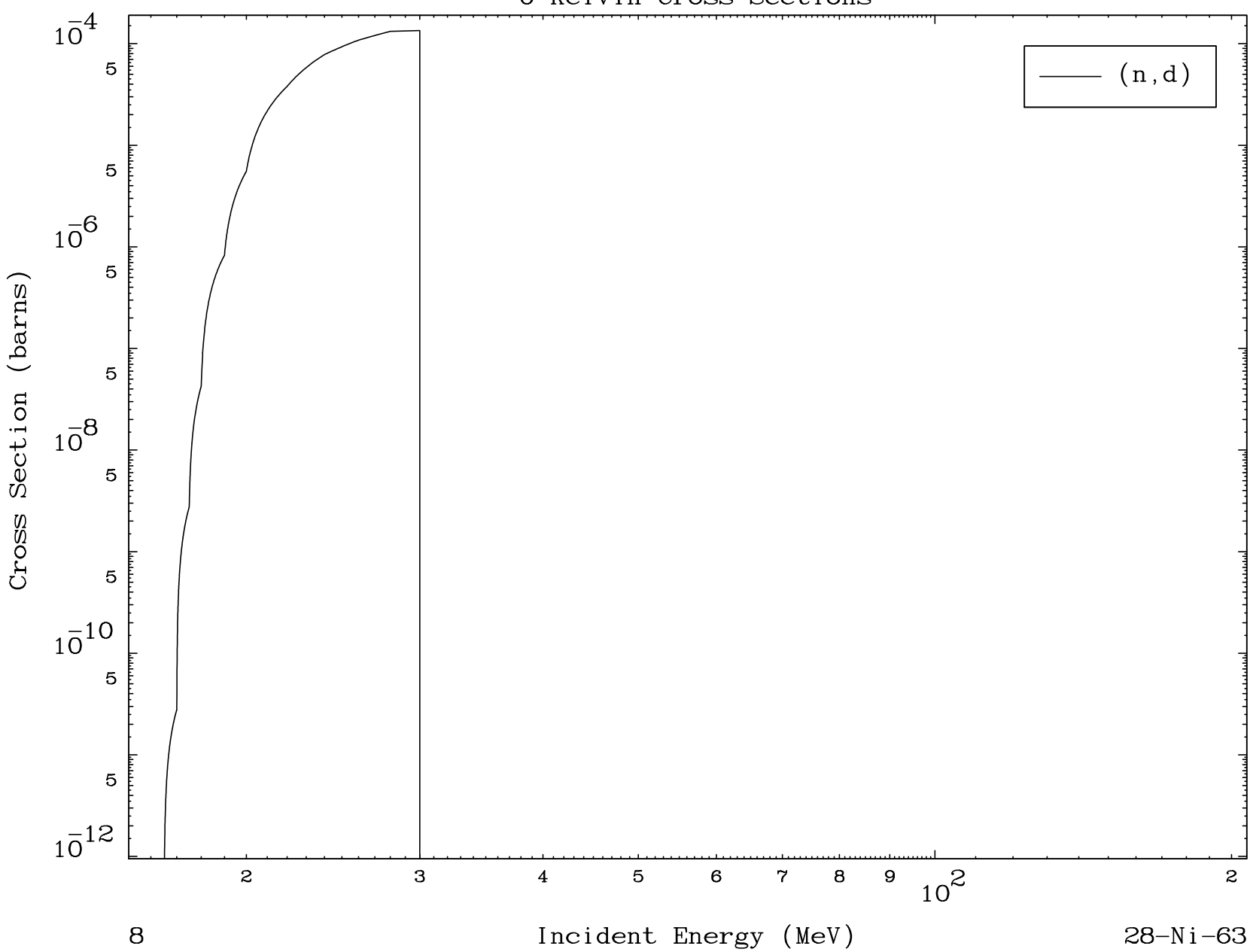

MAT 2840
Photon Neutron Absorption
0 Kelvin Cross Sections
28-Ni-63
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
Cross Section (barns)
Incident Energy (MeV)
3
28-Ni-63

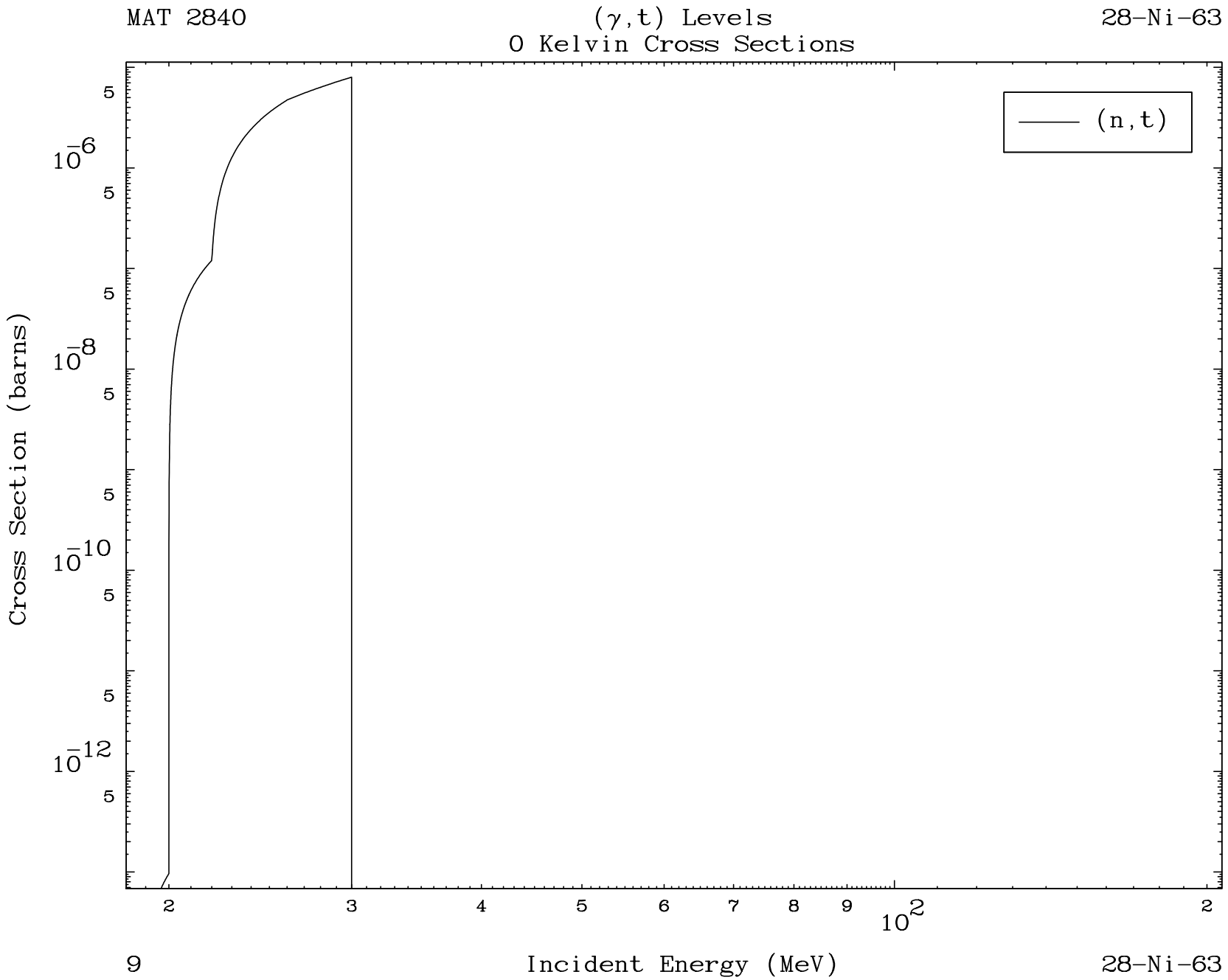

MAT 2840
Photon Charged Particle
0 Kelvin Cross Sections
28-Ni-63
(n,n') α
(n,2n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
(n,p)
(n,d)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
Incident Energy (MeV)
10^2
4
28-Ni-63

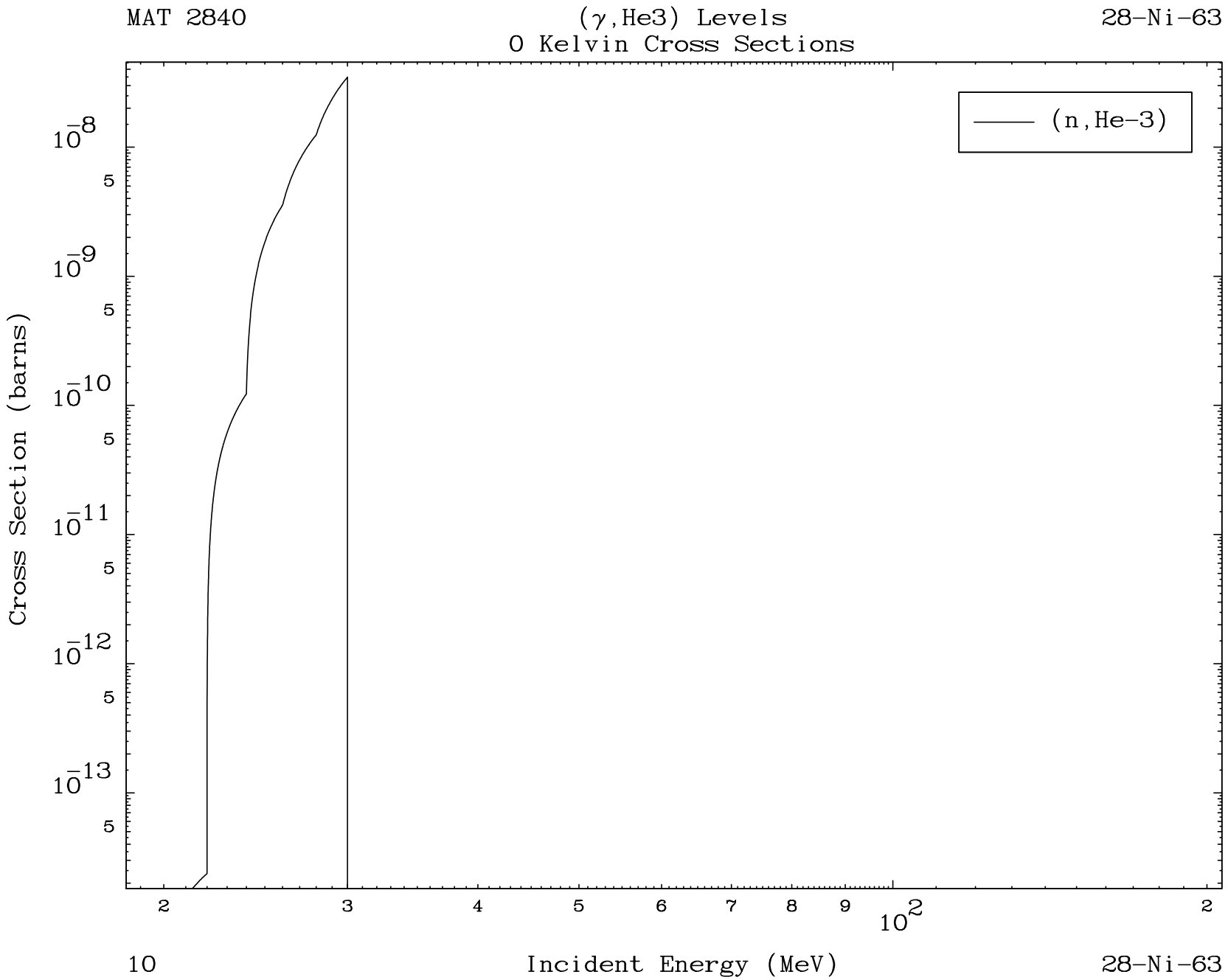

MAT 2840
Photon Charged Particle
0 Kelvin Cross Sections
28-Ni-63
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
(n,n') α
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
28-Ni-63

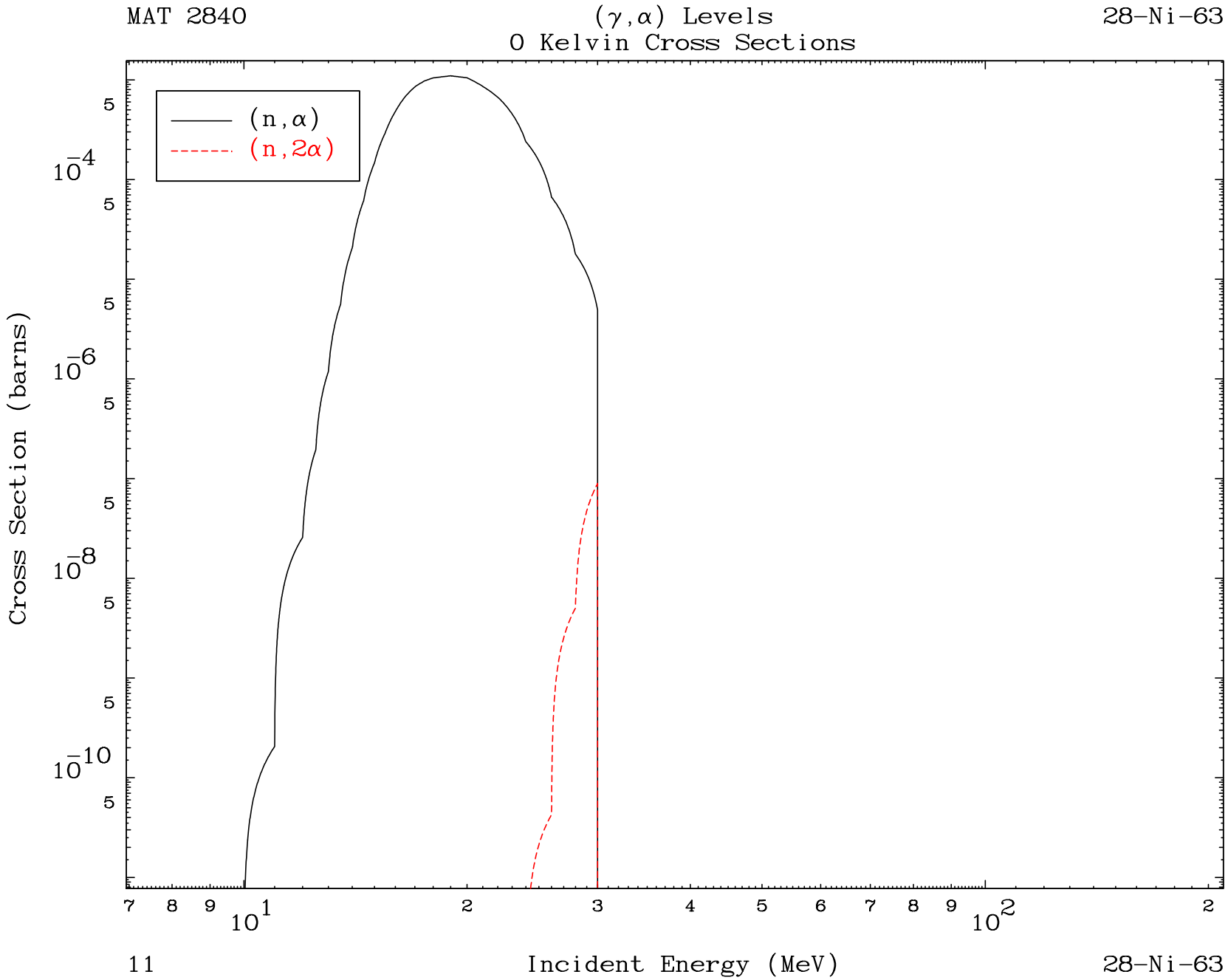

MAT 2840
(γ,n') Levels
28-Ni-63
0 Kelvin Cross Sections
Inelastic
(n,n') Ground
MT= 51 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
6
28-Ni-63

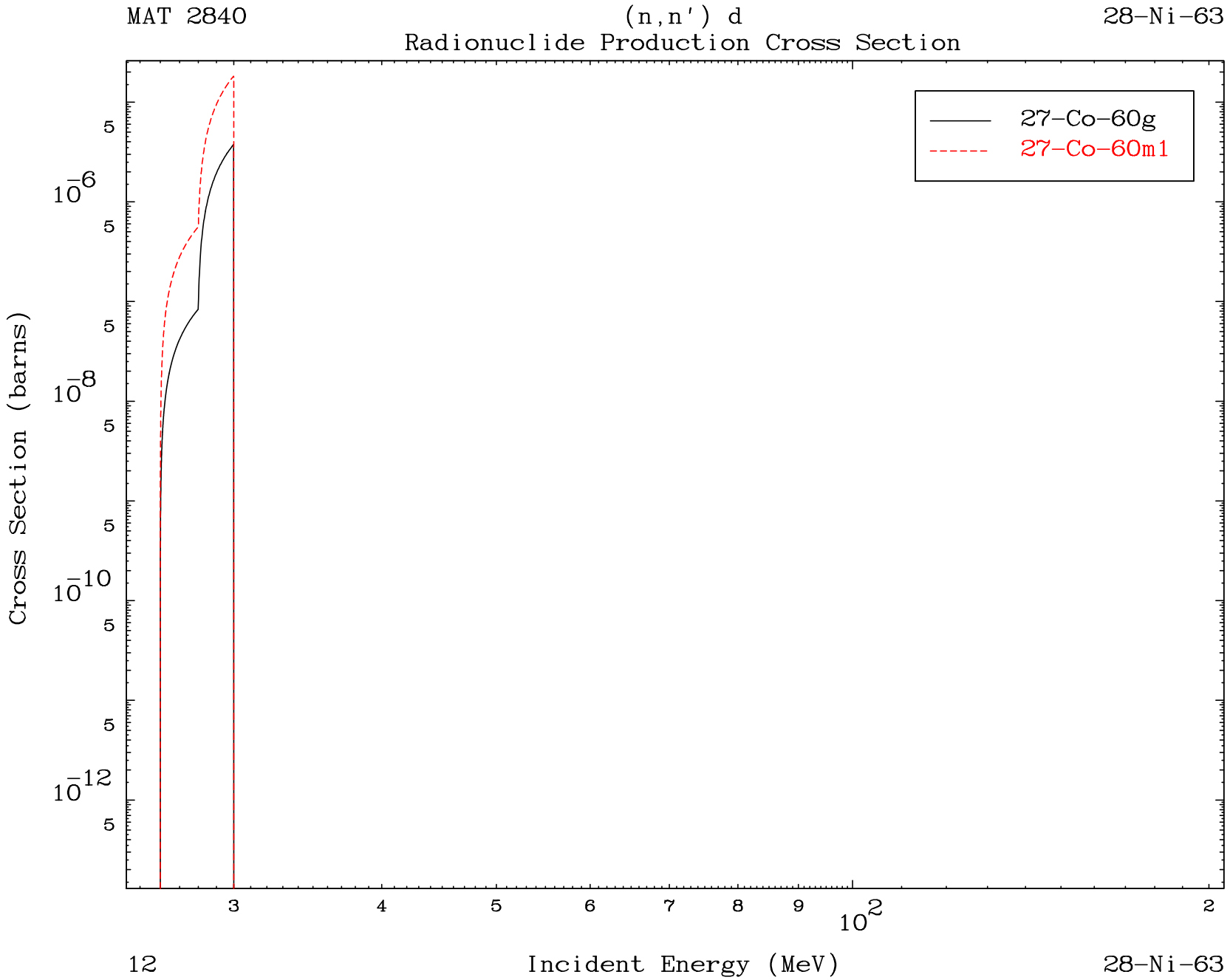

MAT 2840
(γ,p) Levels
28-Ni-63
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
7
28-Ni-63

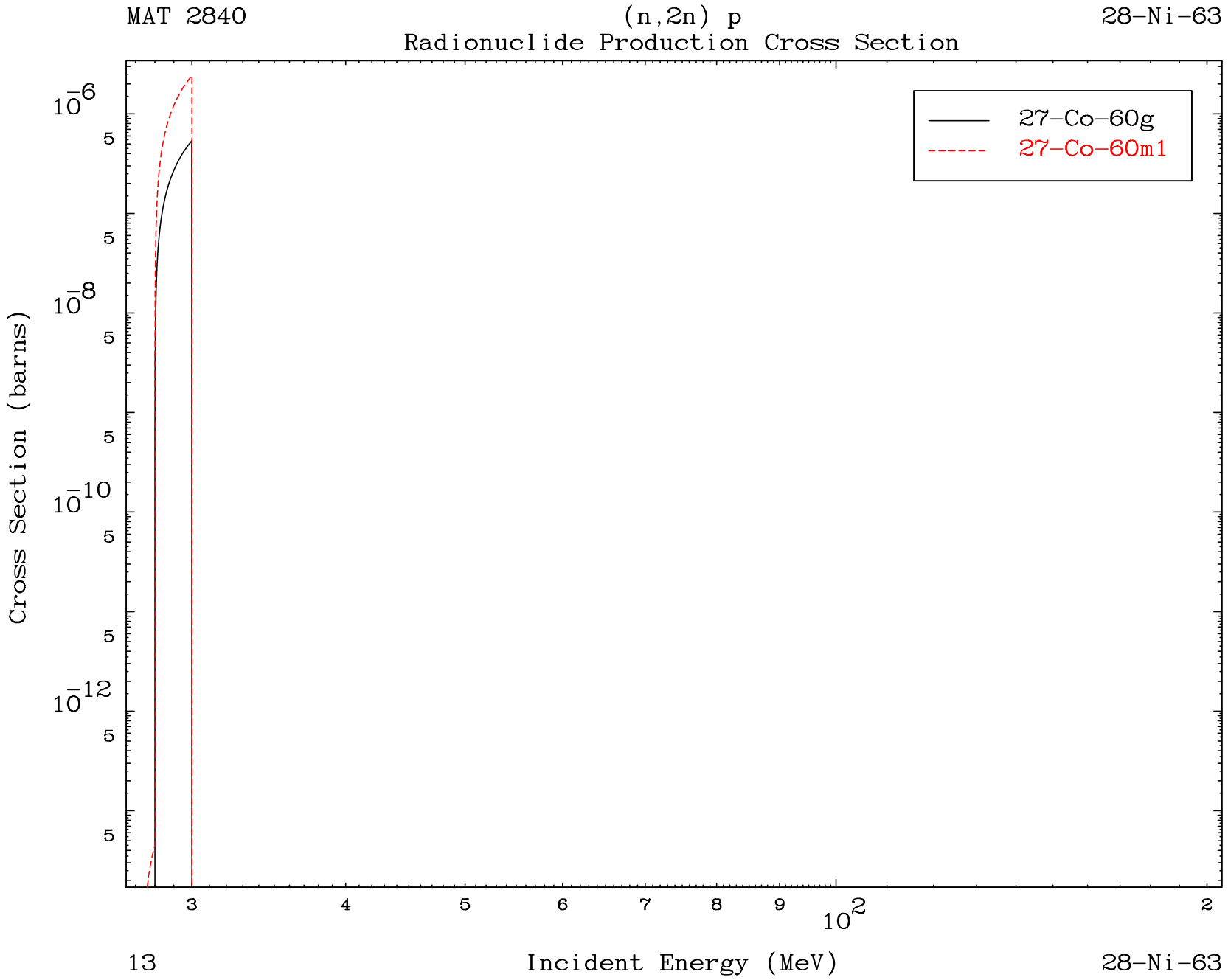

0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10^-4
5
10^-6
5
10^-8
5
10^-10
5
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)

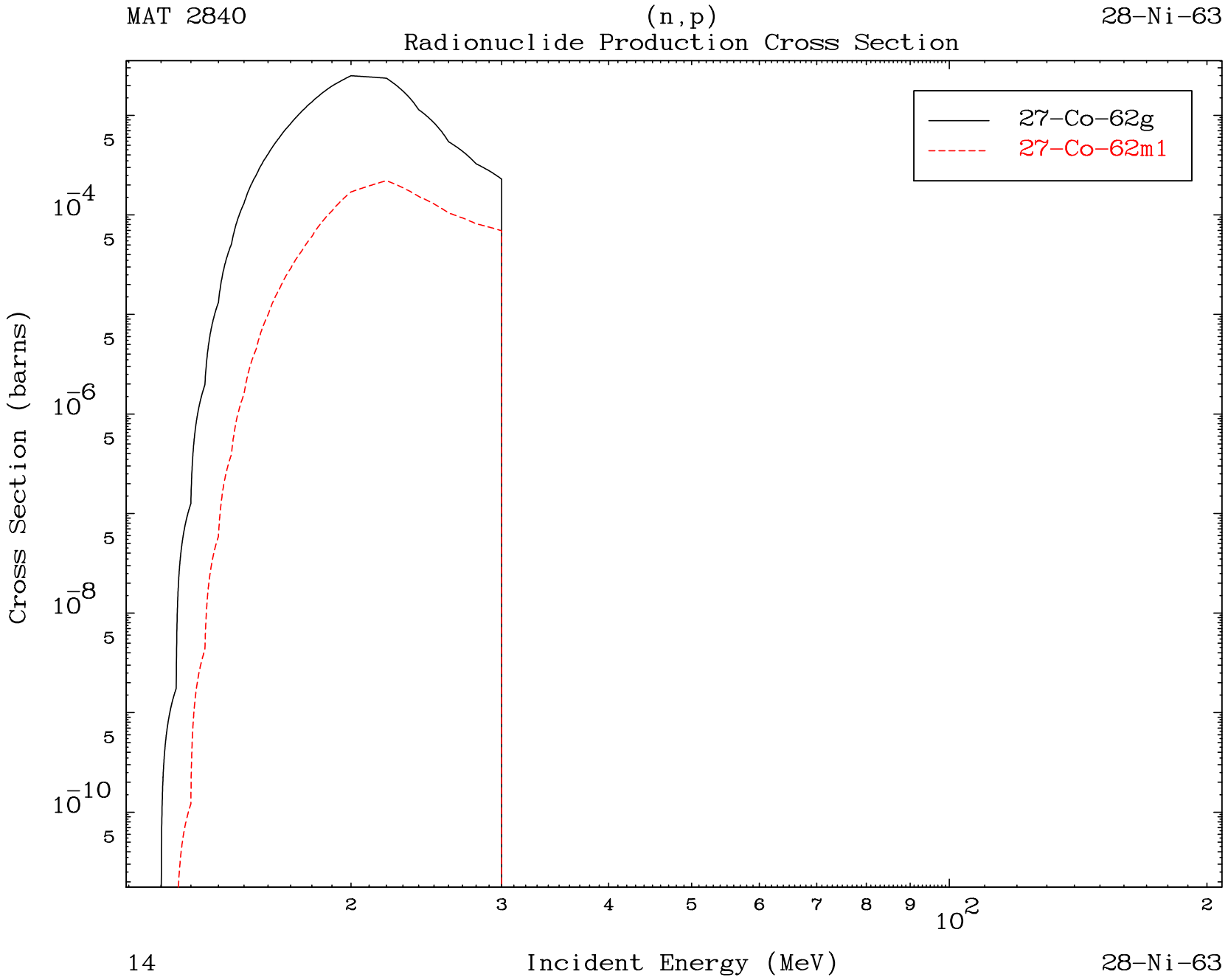

MAT 2840
(γ,t) Levels
28-Ni-63
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
2
3
4
5
6
7
8
9
10^2
2
Incident Energy (MeV)
9
28-Ni-63

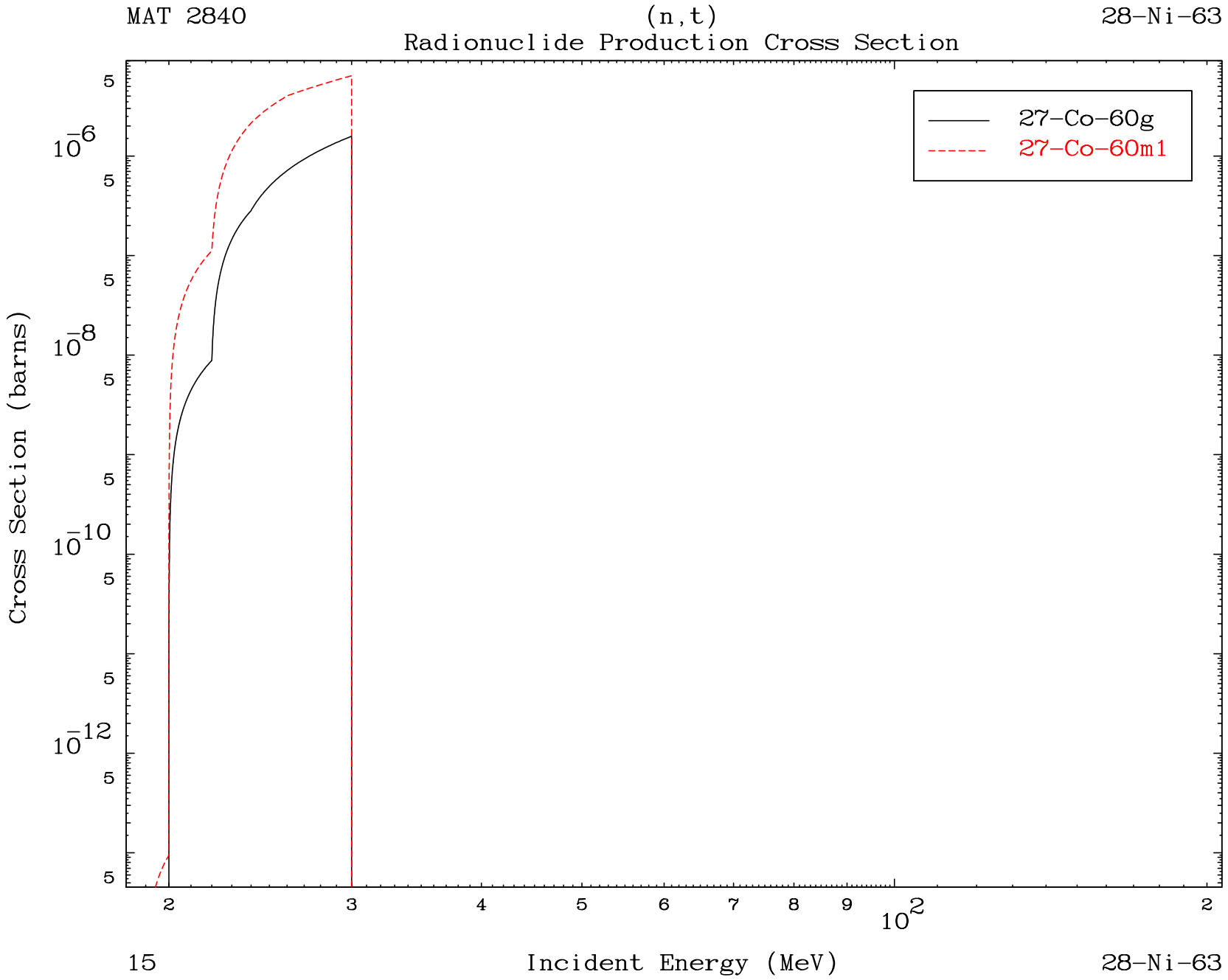

MAT 2840
(γ,He3) Levels
28-Ni-63
0 Kelvin Cross Sections
(n,He-3)
Cross Section (barns)
10^-8
10^-9
10^-10
10^-11
10^-12
10^-13
5
2
3
4
5
6
7
8
9
10^2
2
10
Incident Energy (MeV)
28-Ni-63

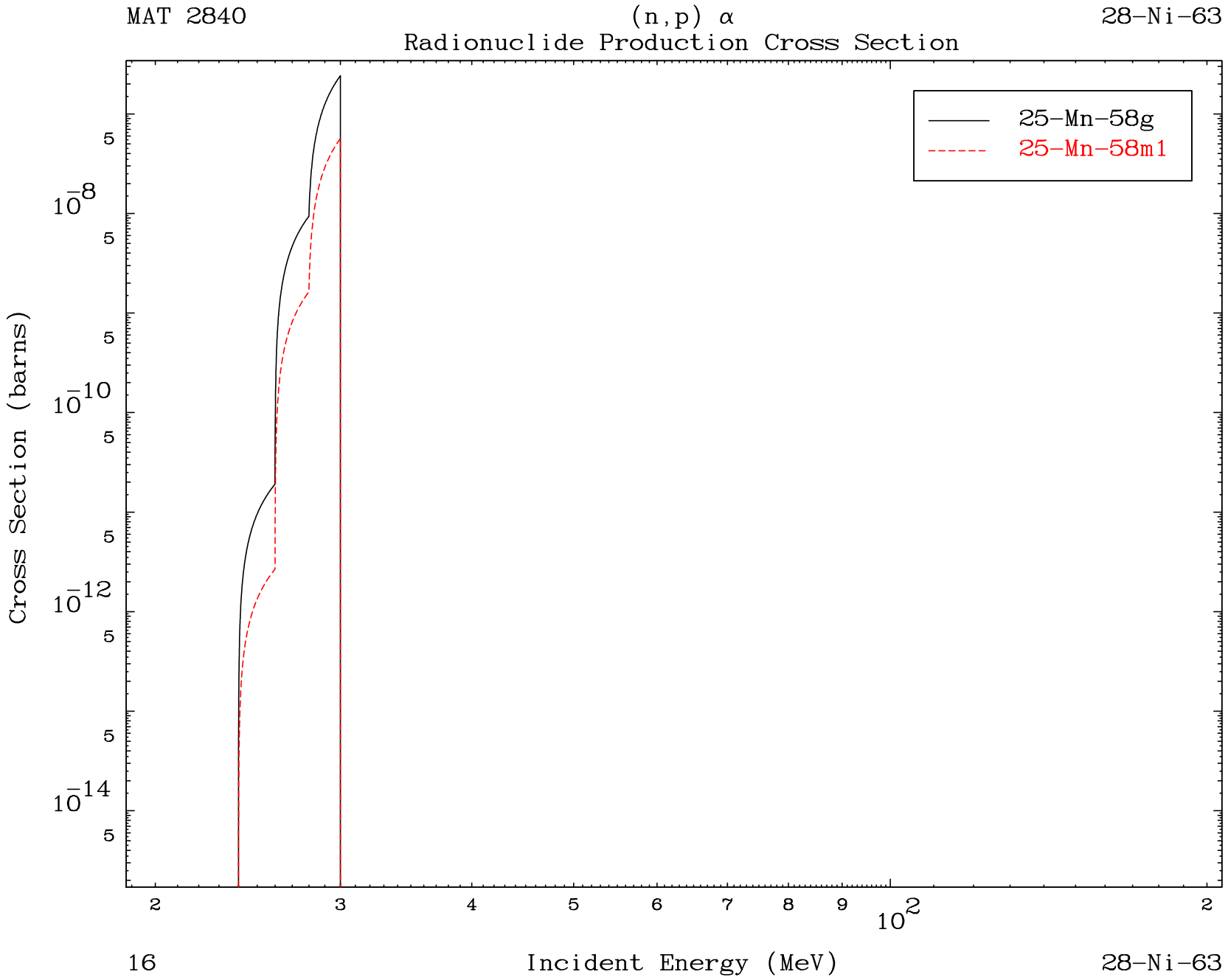

MAT 2840
(γ,α) Levels
28-Ni-63
0 Kelvin Cross Sections
(n,α)
(n,2α)
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
5
7 8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
Incident Energy (MeV)
11
28-Ni-63


MAT 2840
(n,n') d
28-Ni-63
Radionuclide Production Cross Section
27-Co-60g
27-Co-60m1
Cross Section (barns)
10-6
10-8
10-10
10-12
5
3
4
5
6
7
8
9
10 2
2
12
Incident Energy (MeV)
28-Ni-63


MAT 2840
(n,2n) p
28-Ni-63
Radionuclide Production Cross Section
27-Co-60g
27-Co-60m1
Cross Section (barns)
10^-6
10^-8
10^-10
10^-12
5
3
4
5
6
7
8
9
10^2
2
13
Incident Energy (MeV)
28-Ni-63


MAT 2840
(n,p)
28-Ni-63
Radionuclide Production Cross Section
27-Co-62g
27-Co-62m1
Cross Section (barns)
10-4
10-6
10-8
10-10
5
2
3
4
5
6
7
8
9
10 2
2
14
Incident Energy (MeV)
28-Ni-63


MAT 2840
(n,t)
28-Ni-63
Radionuclide Production Cross Section
27-Co-60g
27-Co-60m1
Cross Section (barns)
10-6
10-8
10-10
10-12
2
3
4
5
6
7
8
9
10 2
Incident Energy (MeV)
15
28-Ni-63


MAT 2840
(n,p) α
28-Ni-63
Radionuclide Production Cross Section
25-Mn-58g
25-Mn-58m1
Cross Section (barns)
10-8
10-10
10-12
10-14
5
2
3
4
5
6
7
8
9
10 2
2
16
Incident Energy (MeV)
28-Ni-63