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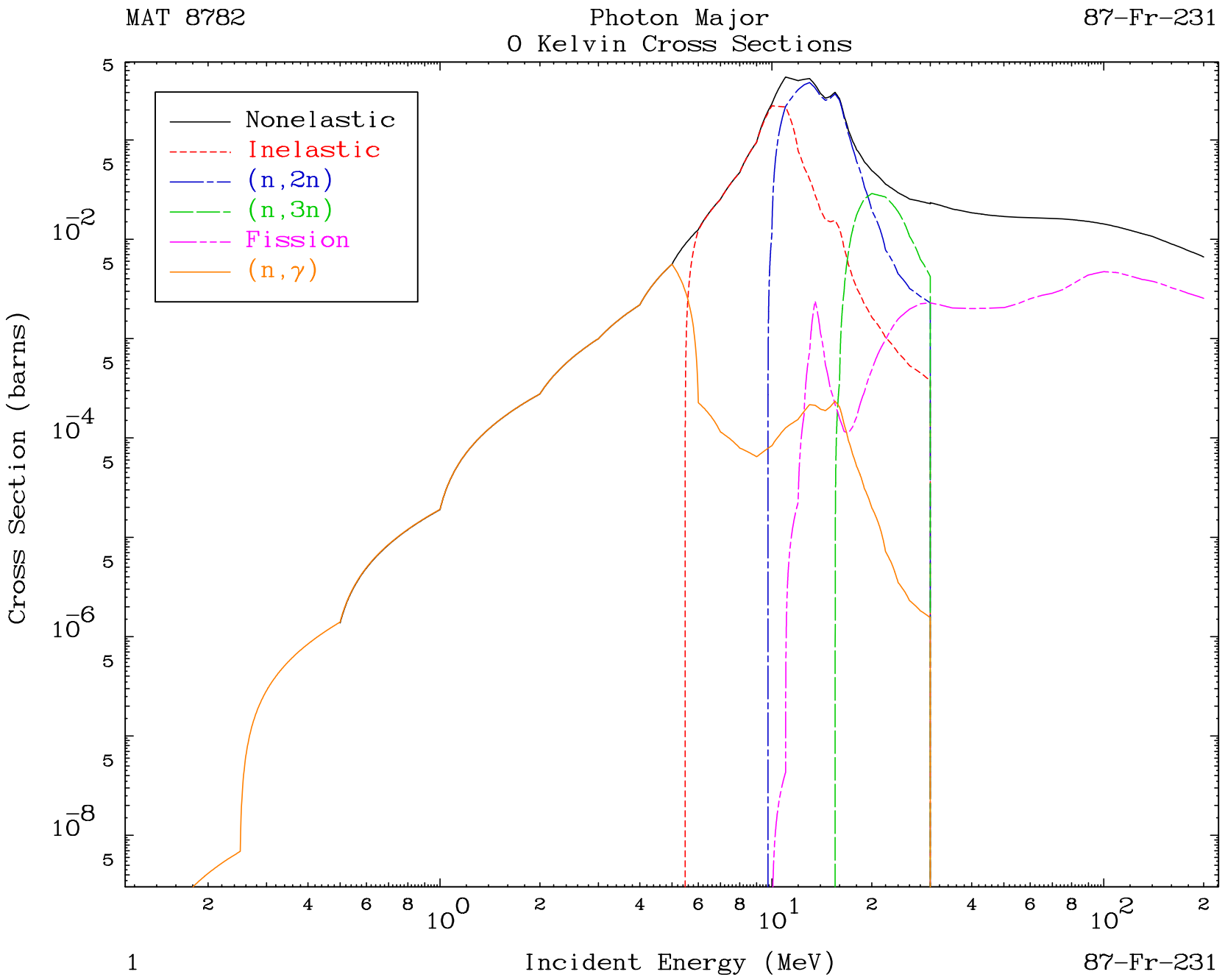
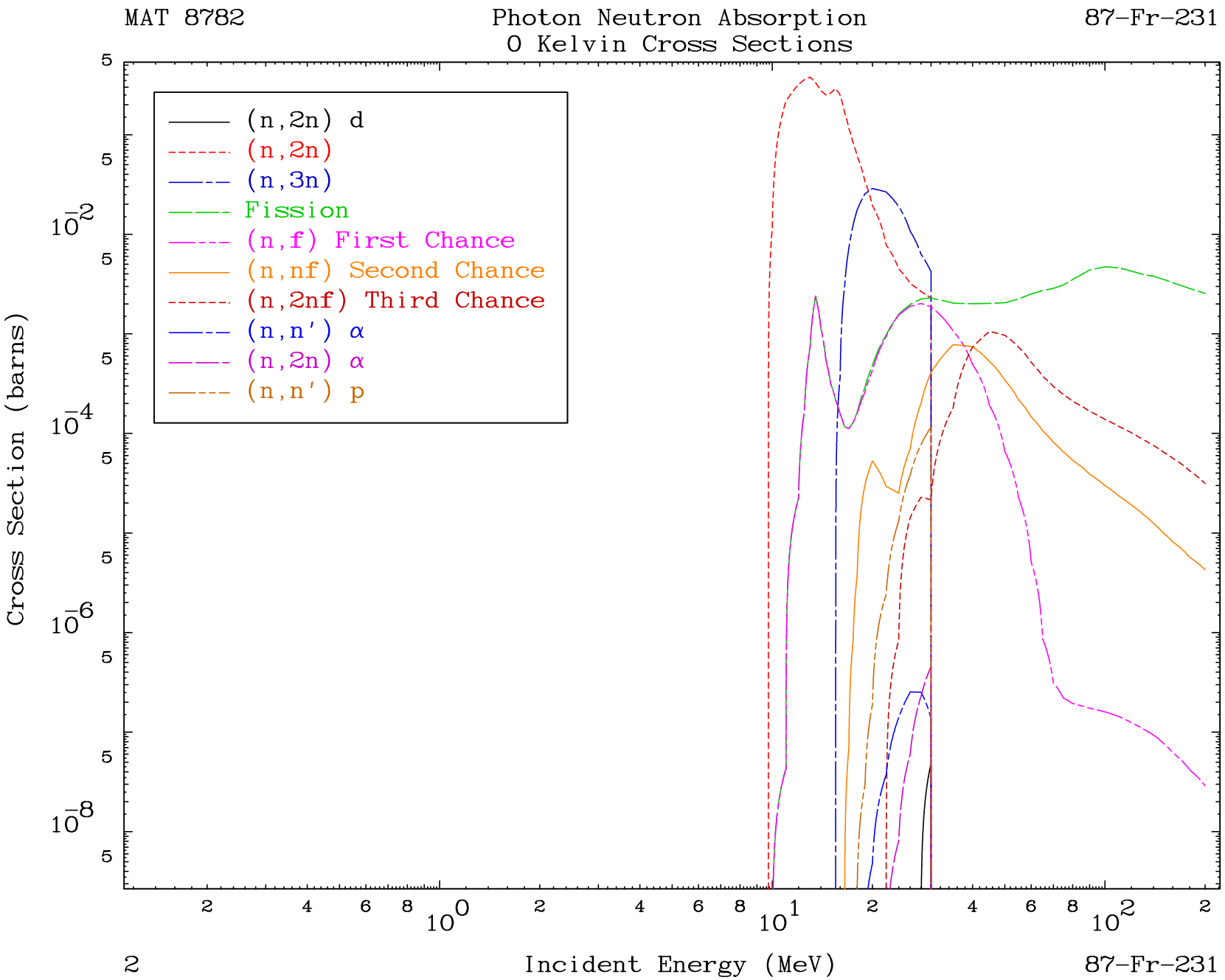
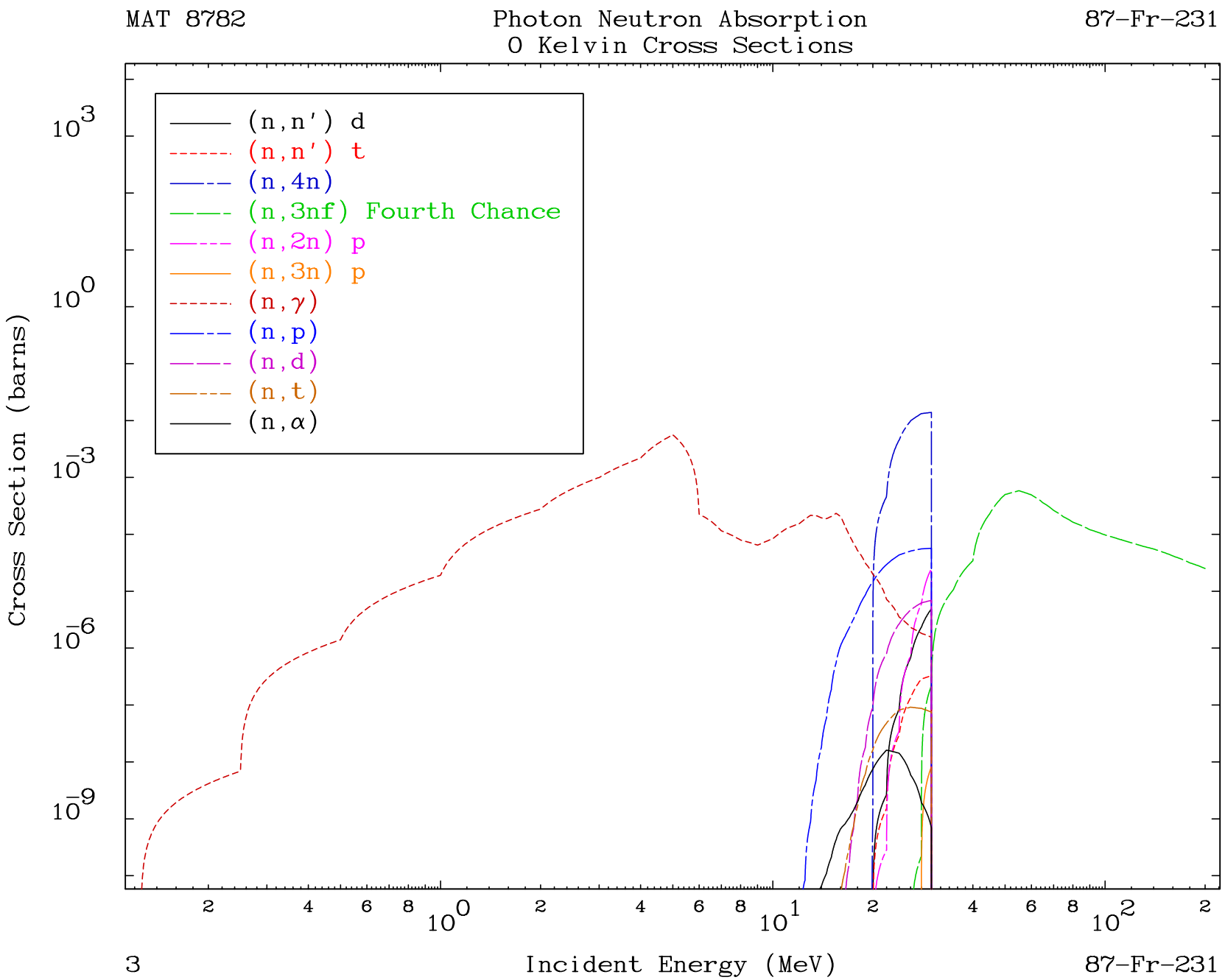
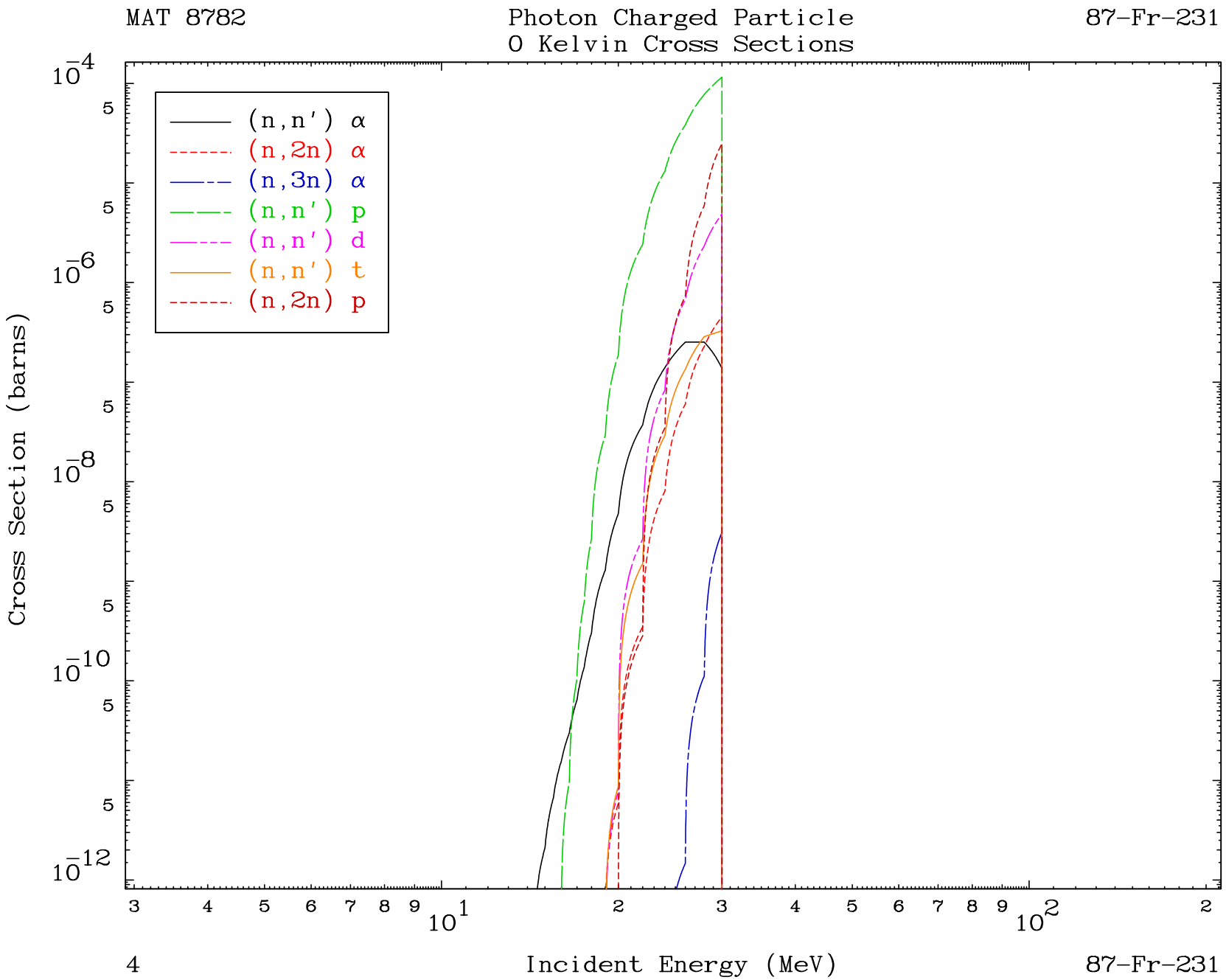
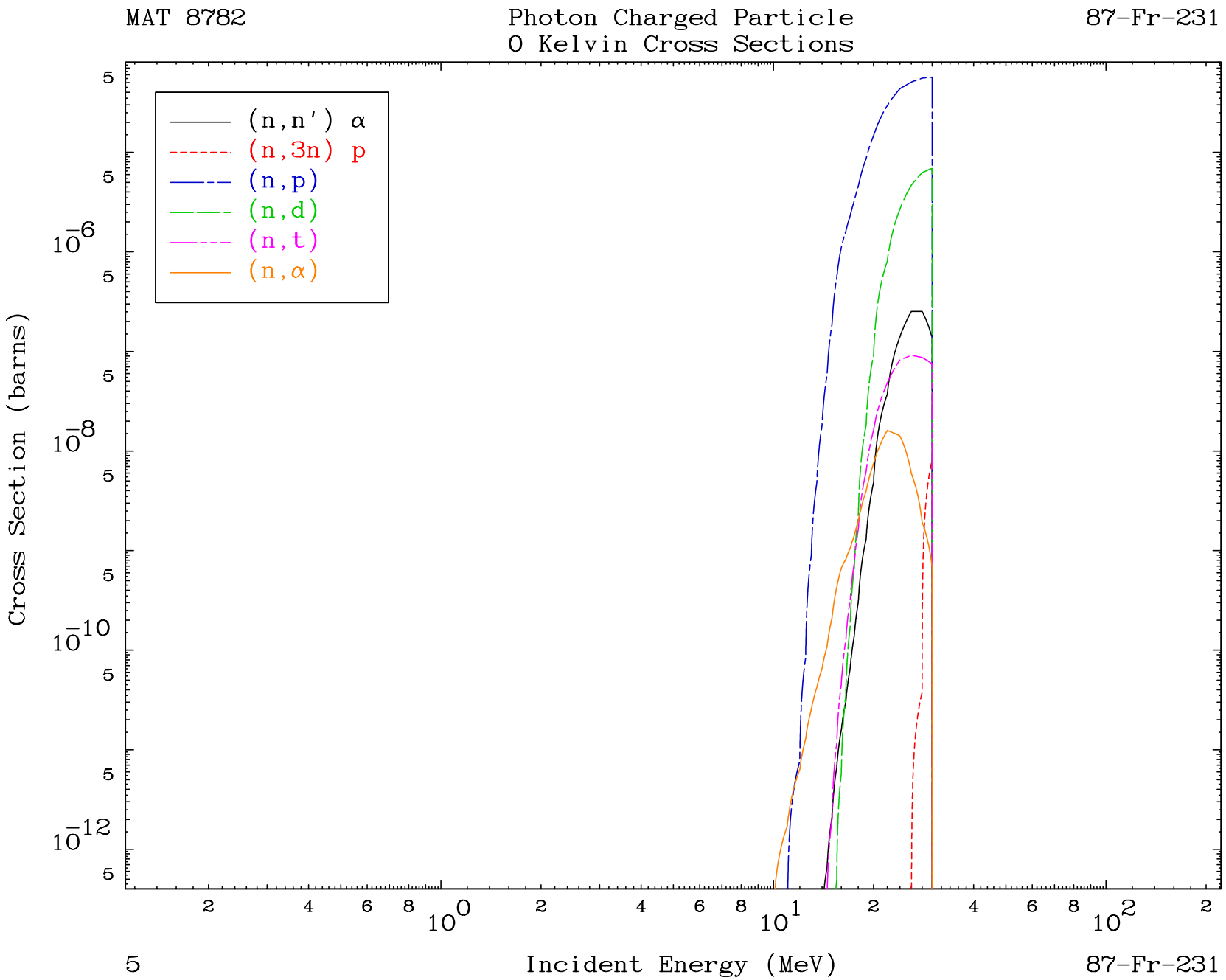
Press Mouse Button to Start

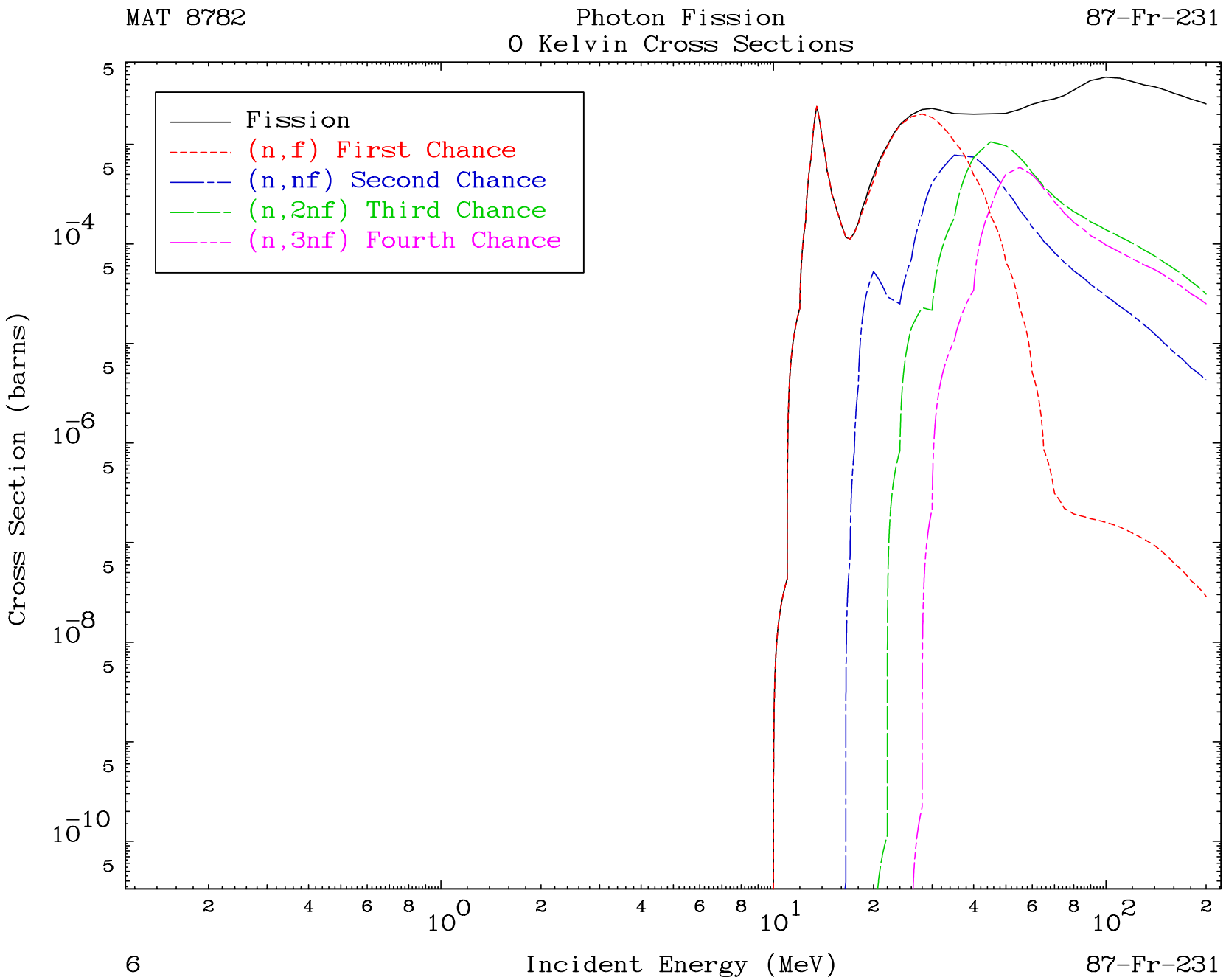

MAT 8782
Photon Major
87-Fr-231
0 Kelvin Cross Sections
Nonelastic
Inelastic
(n,2n)
(n,3n)
Fission
(n,γ)
Cross Section (barns)
Incident Energy (MeV)
87-Fr-231
1

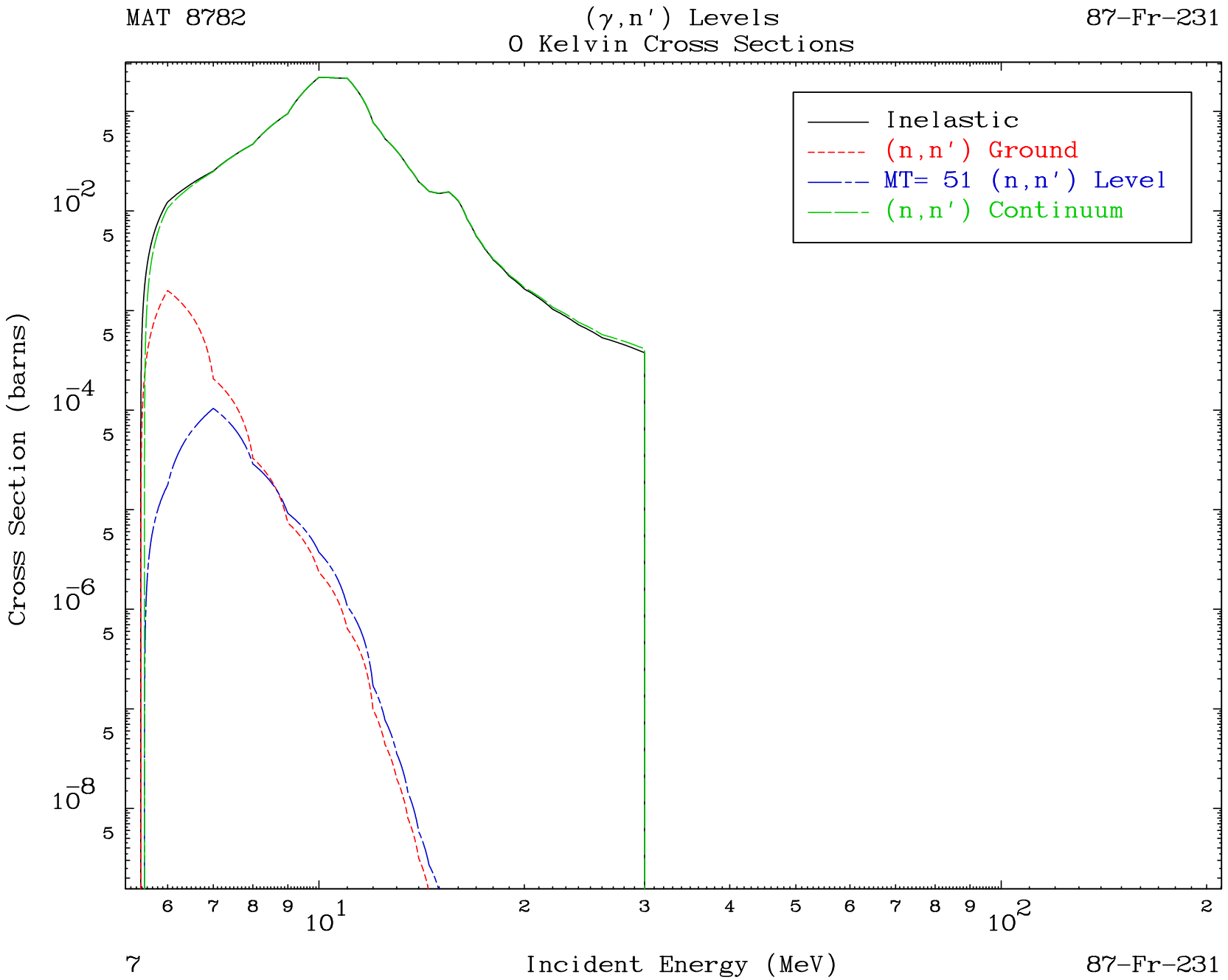

MAT 8782
Photon Neutron Absorption
0 Kelvin Cross Sections
87-Fr-231
(n,2n) d
(n,2n)
(n,3n)
Fission
(n,f) First Chance
(n,nf) Second Chance
(n,2nf) Third Chance
(n,n') α
(n,2n) α
(n,n') p
Cross Section (barns)
Incident Energy (MeV)
87-Fr-231
2

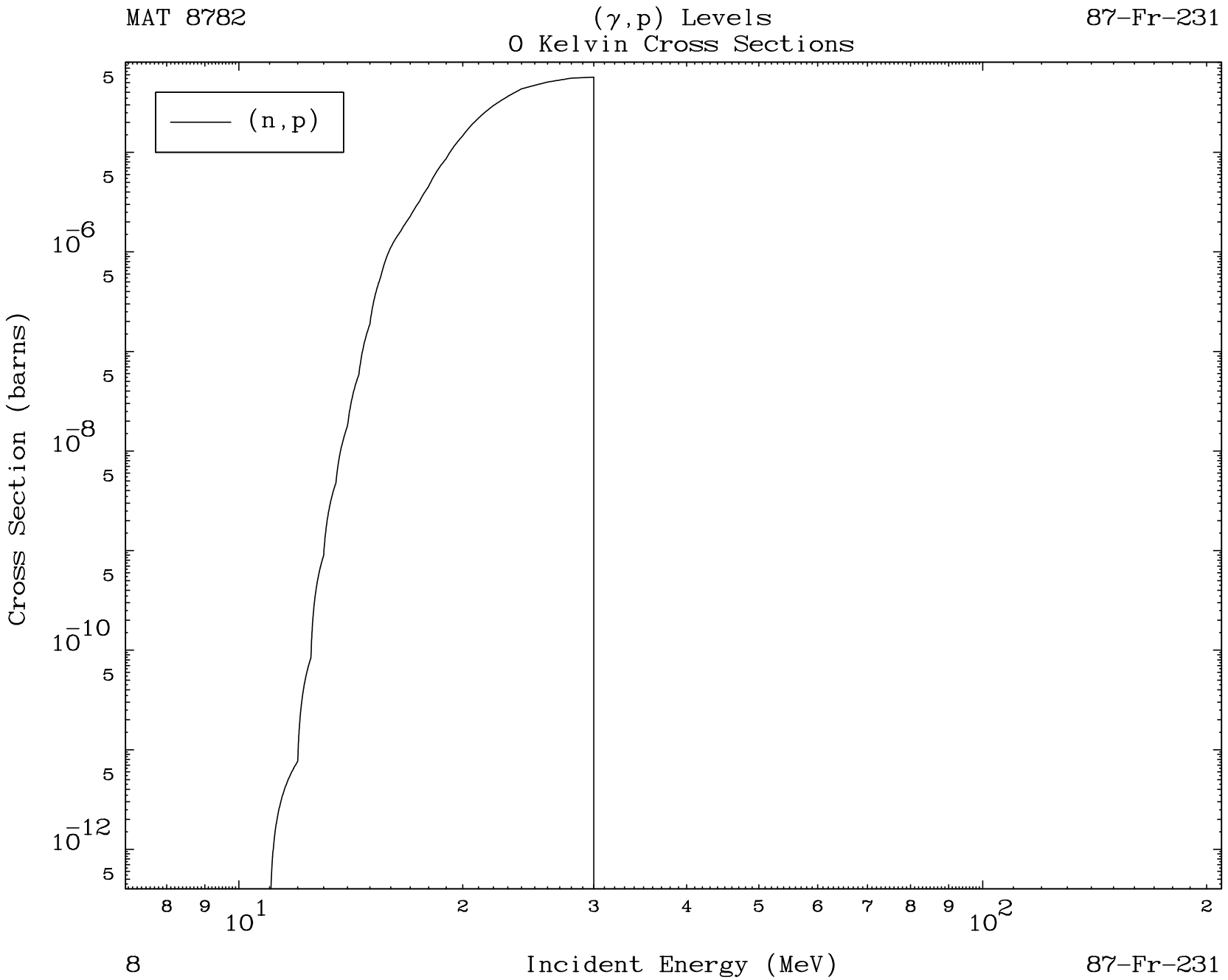

MAT 8782
Photon Neutron Absorption
0 Kelvin Cross Sections
87-Fr-231
(n,n') d
(n,n') t
(n,4n)
(n,3nf) Fourth Chance
(n,2n) p
(n,3n) p
(n,γ)
(n,p)
(n,d)
(n,t)
(n,α)
Cross Section (barns)
10^3
10^0
10^-3
10^-6
10^-9
2 4 6 8 10^0 2 4 6 8 10^1 2 4 6 8 10^2 2
Incident Energy (MeV)
3
87-Fr-231

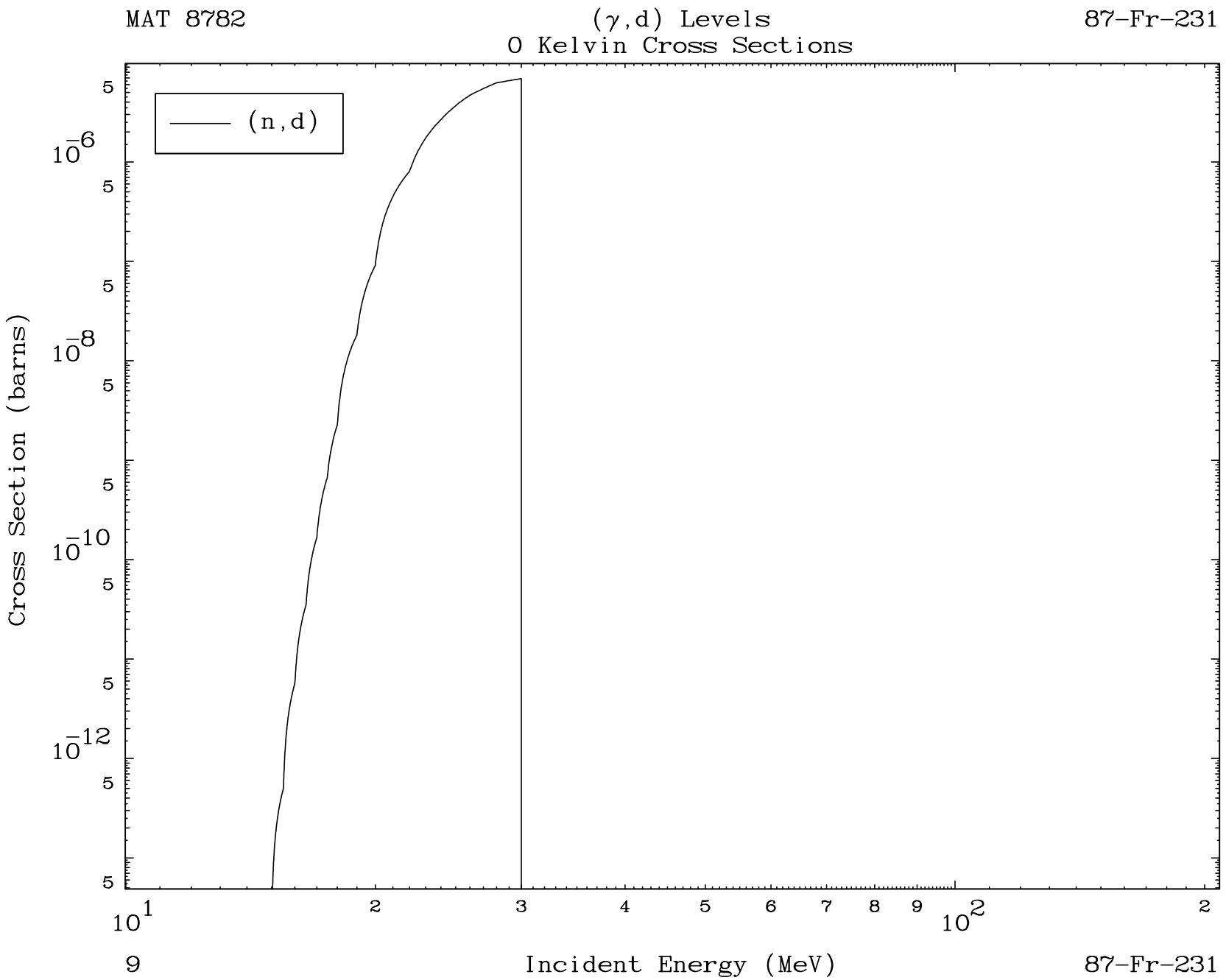

MAT 8782
Photon Charged Particle
0 Kelvin Cross Sections
87-Fr-231
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,2n) p
Cross Section (barns)
Incident Energy (MeV)
4
87-Fr-231

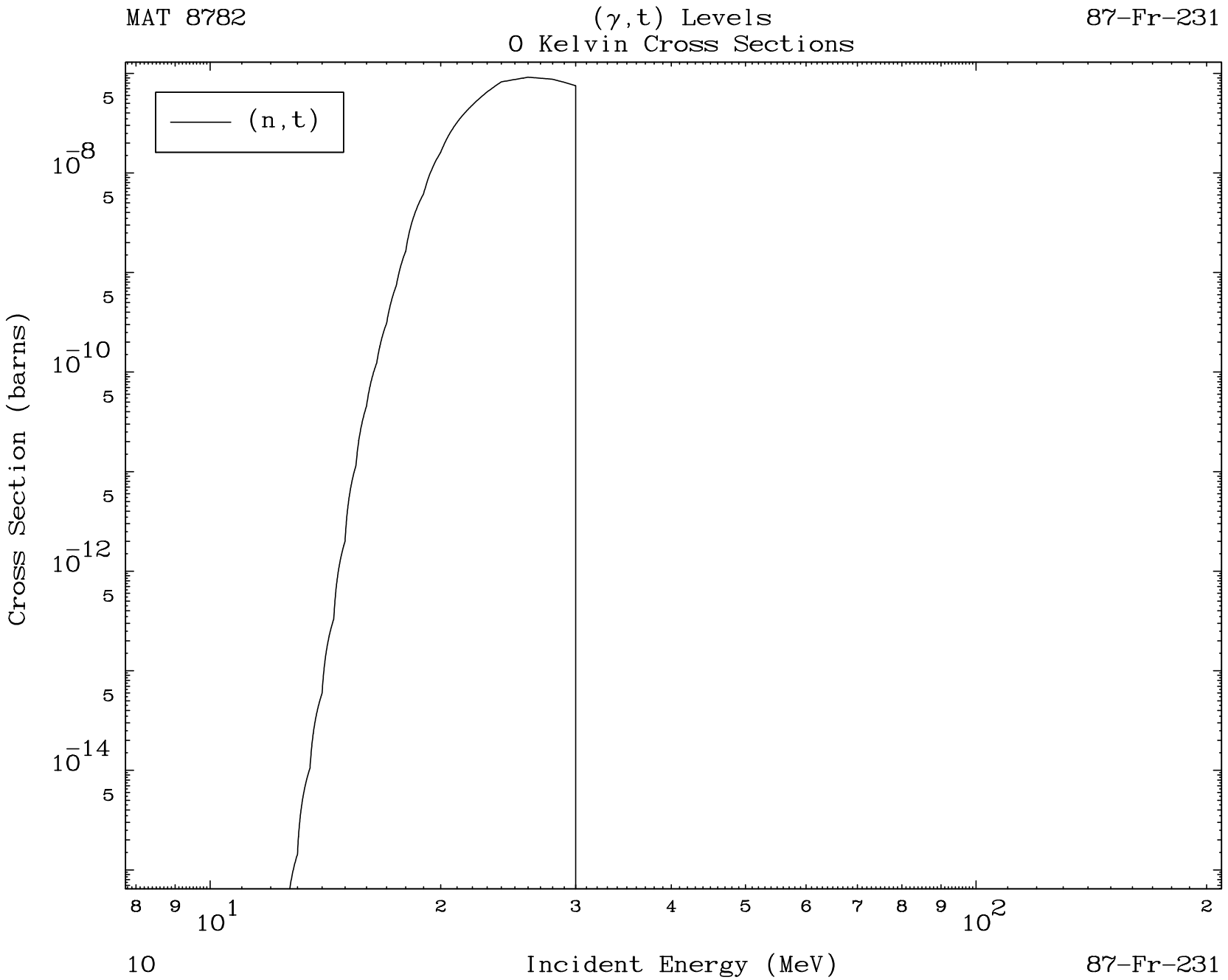

MAT 8782
Photon Charged Particle
0 Kelvin Cross Sections
87-Fr-231
(n,n') α
(n,3n) p
(n,p)
(n,d)
(n,t)
(n,α)
Cross Section (barns)
Incident Energy (MeV)
87-Fr-231

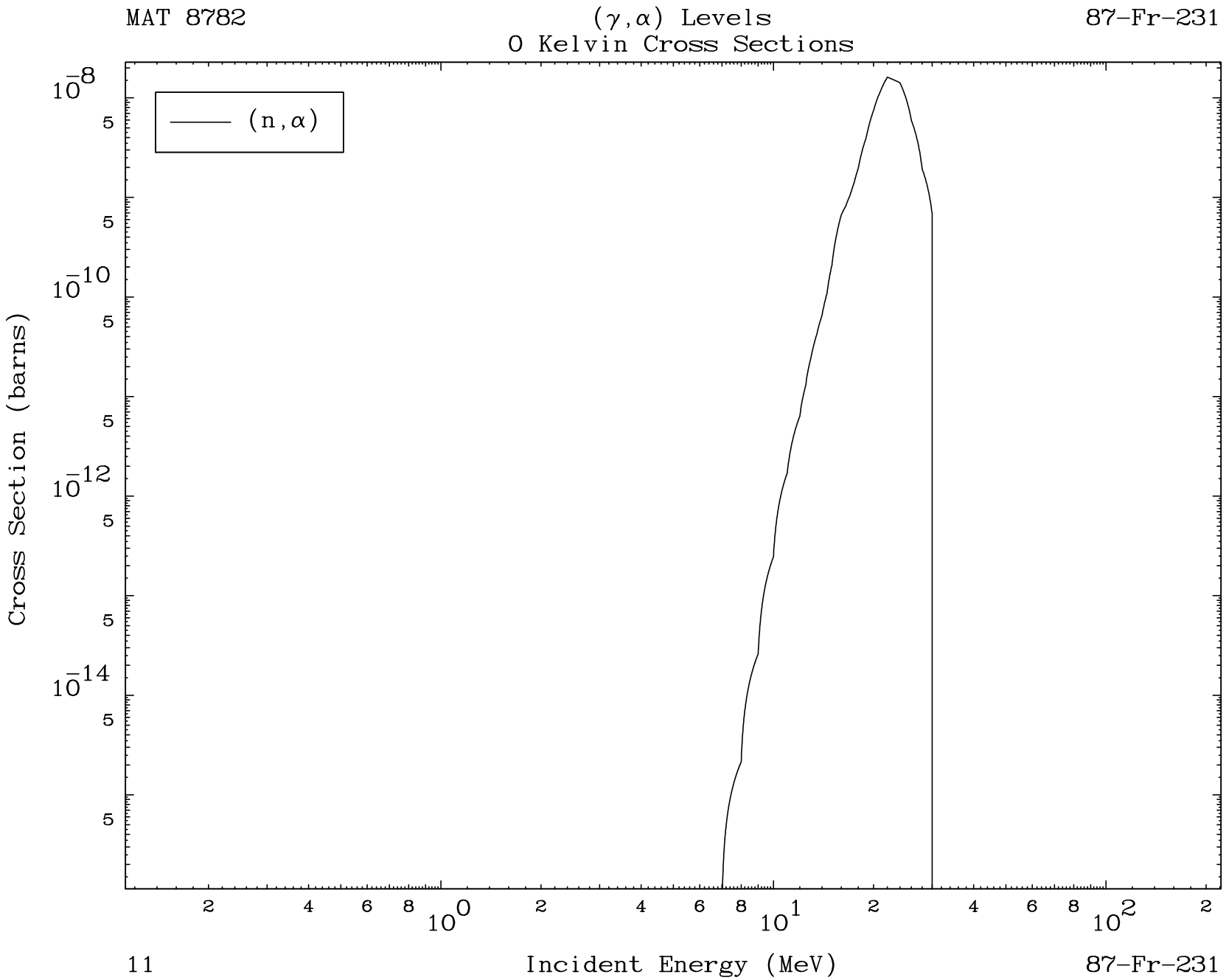

MAT 8782
Photon Fission
87-Fr-231
0 Kelvin Cross Sections
Fission
(n,f) First Chance
(n,nf) Second Chance
(n,2nf) Third Chance
(n,3nf) Fourth Chance
Cross Section (barns)
Incident Energy (MeV)
6
87-Fr-231


MAT 8782
(γ,n') Levels
87-Fr-231
0 Kelvin Cross Sections
Inelastic
(n,n') Ground
MT= 51 (n,n') Level
(n,n') Continuum
Cross Section (barns)
Incident Energy (MeV)
87-Fr-231
7


MAT 8782
(γ,p) Levels
87-Fr-231
0 Kelvin Cross Sections
(n,p)
Cross Section (barns)
Incident Energy (MeV)
87-Fr-231
8


MAT 8782
(γ,d) Levels
87-Fr-231
0 Kelvin Cross Sections
(n,d)
Cross Section (barns)
10-6
10-8
10-10
10-12
Incident Energy (MeV)
87-Fr-231


MAT 8782
(γ,t) Levels
87-Fr-231
0 Kelvin Cross Sections
(n,t)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
8 9 10^1 2 3 4 5 6 7 8 9 10^2 2
10
Incident Energy (MeV)
87-Fr-231


MAT 8782
(γ,α) Levels
87-Fr-231
0 Kelvin Cross Sections
(n,α)
Cross Section (barns)
10^-8
10^-10
10^-12
10^-14
5
2
4
6
8
10^0
10^1
10^2
11
Incident Energy (MeV)
87-Fr-231