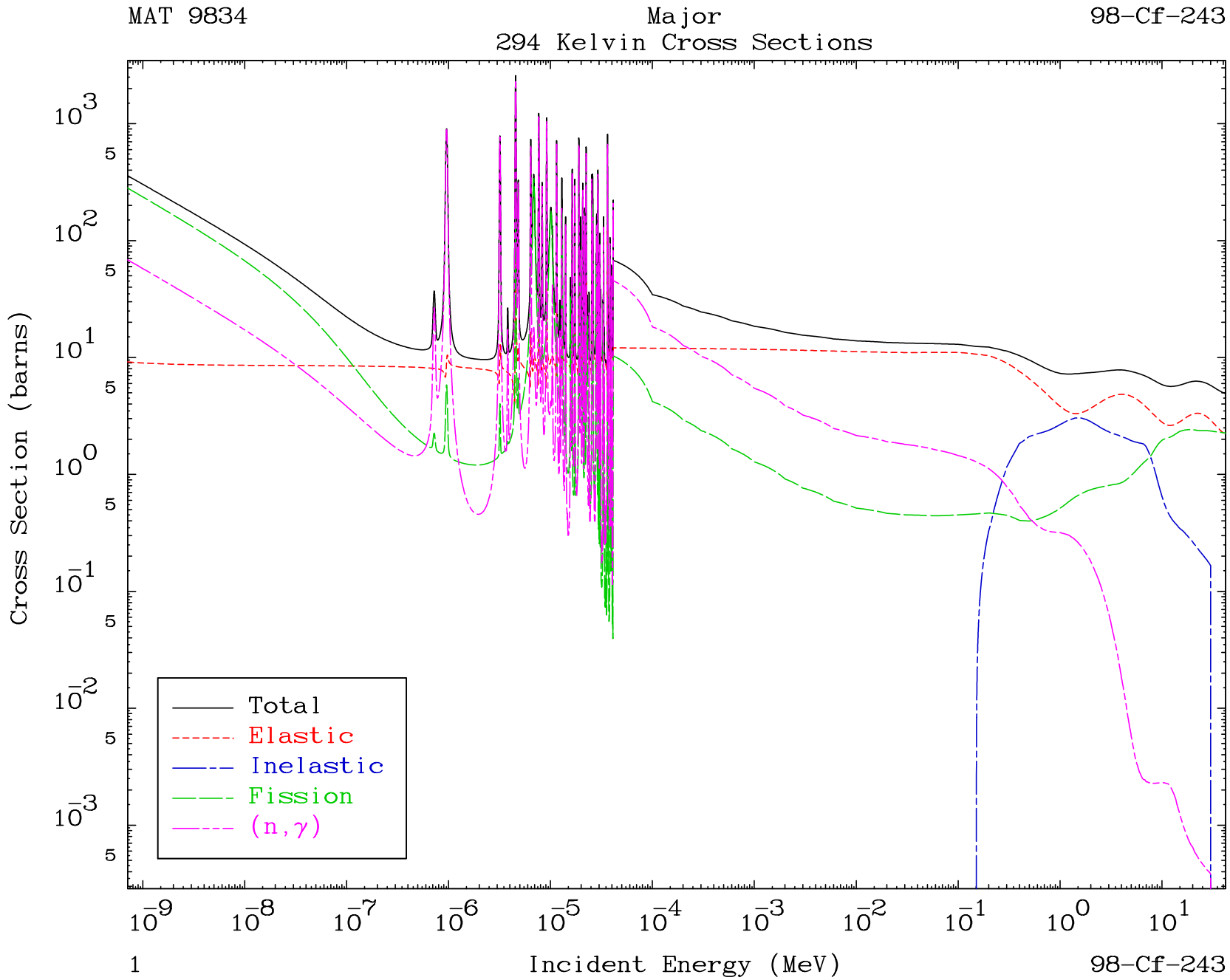
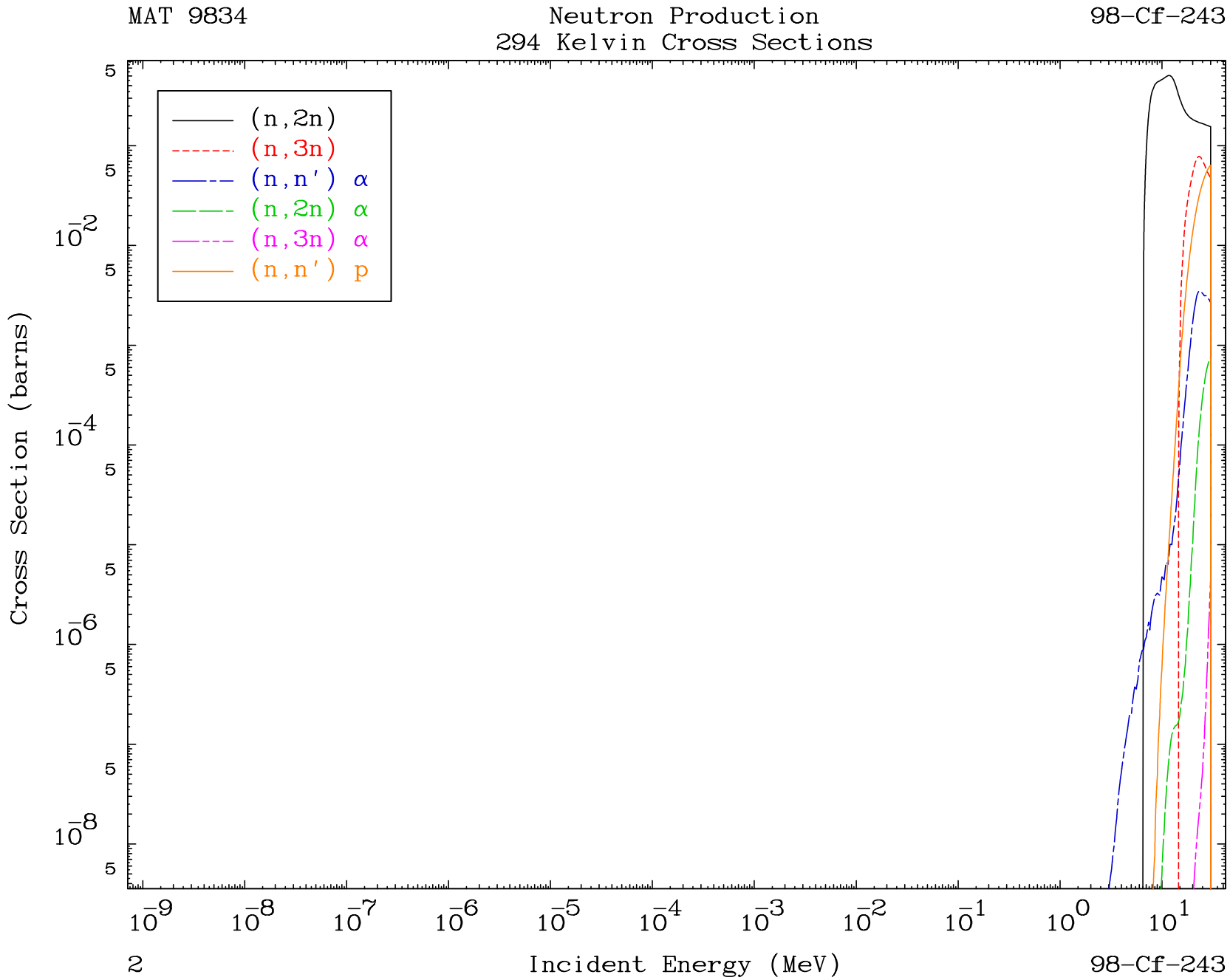
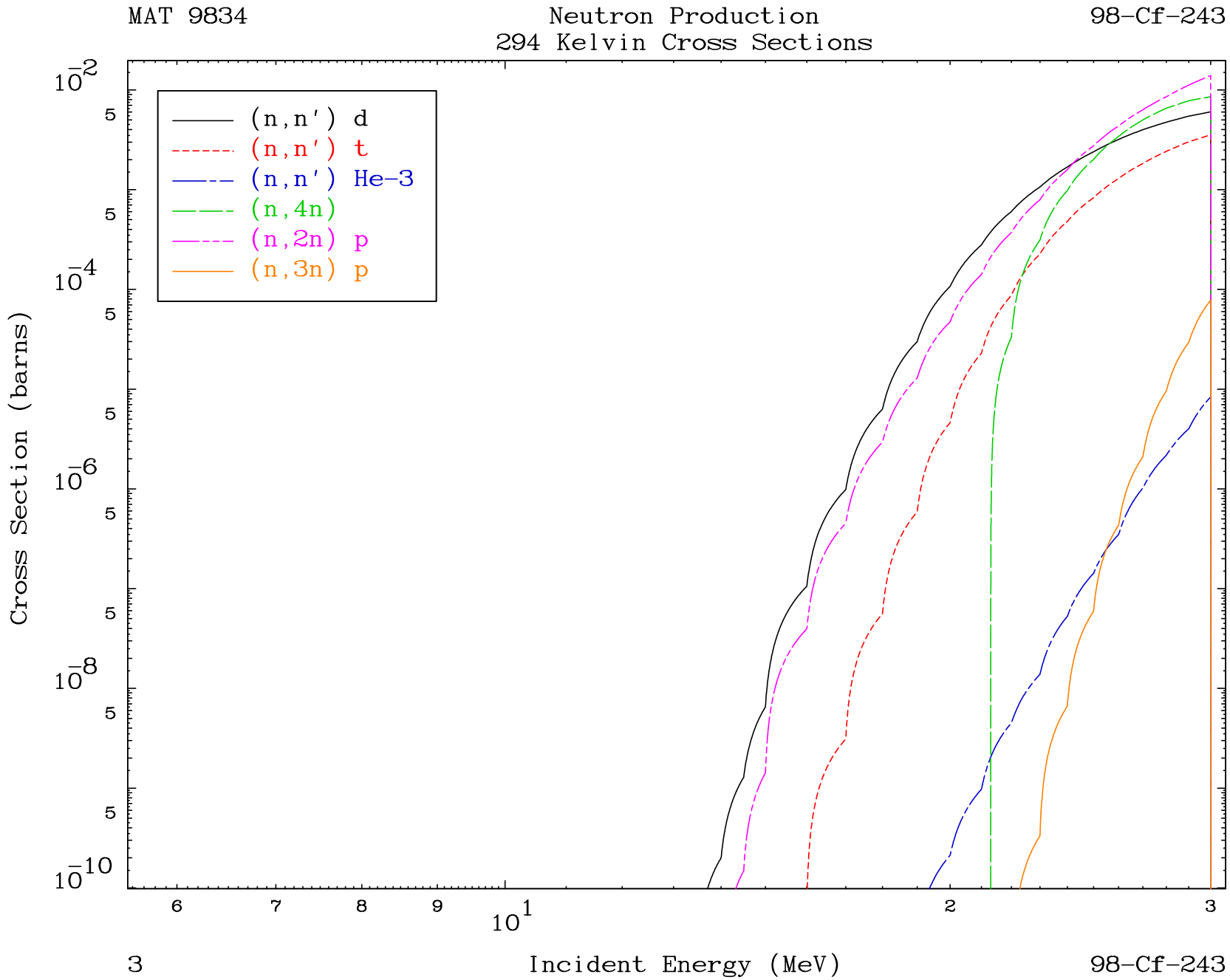
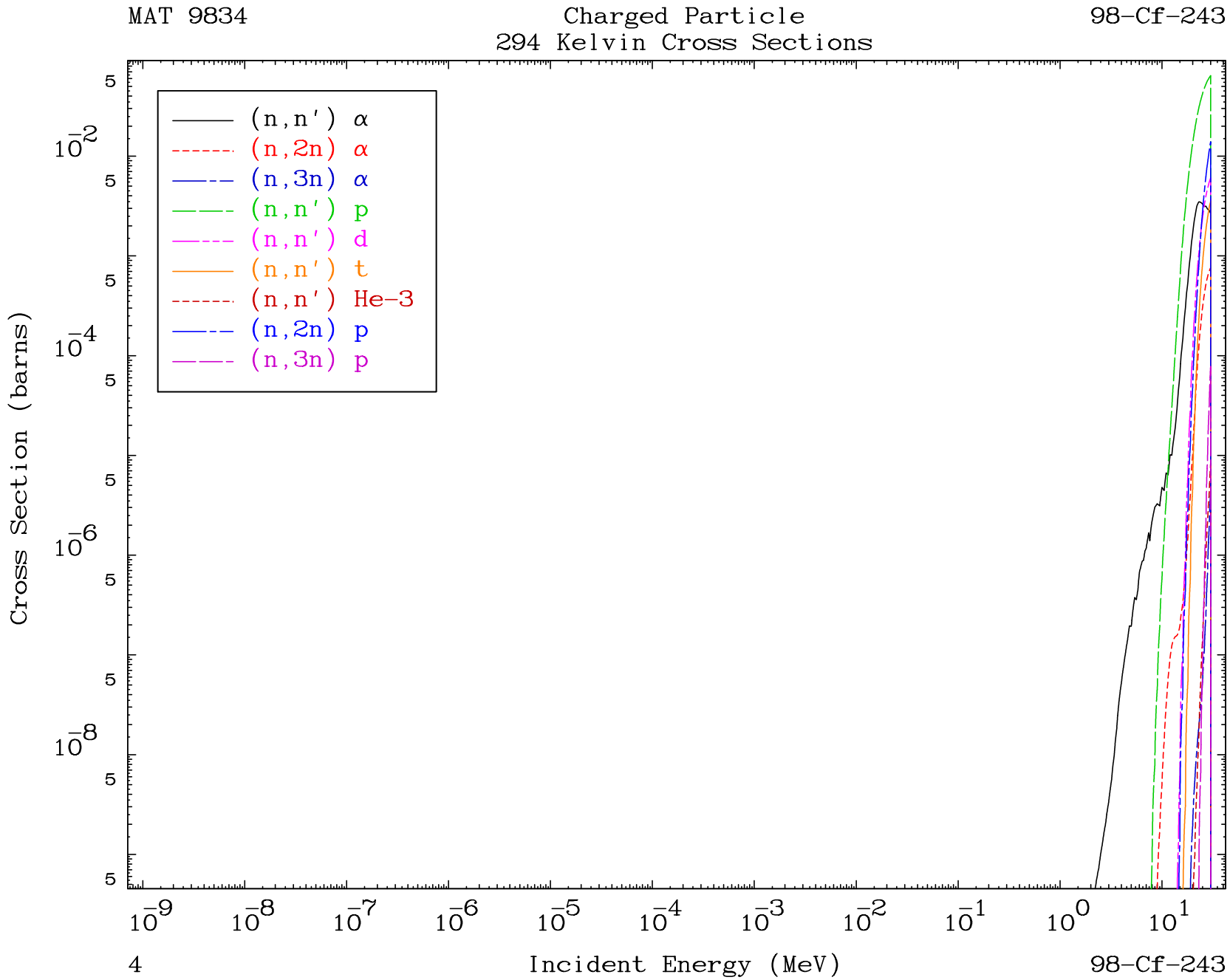
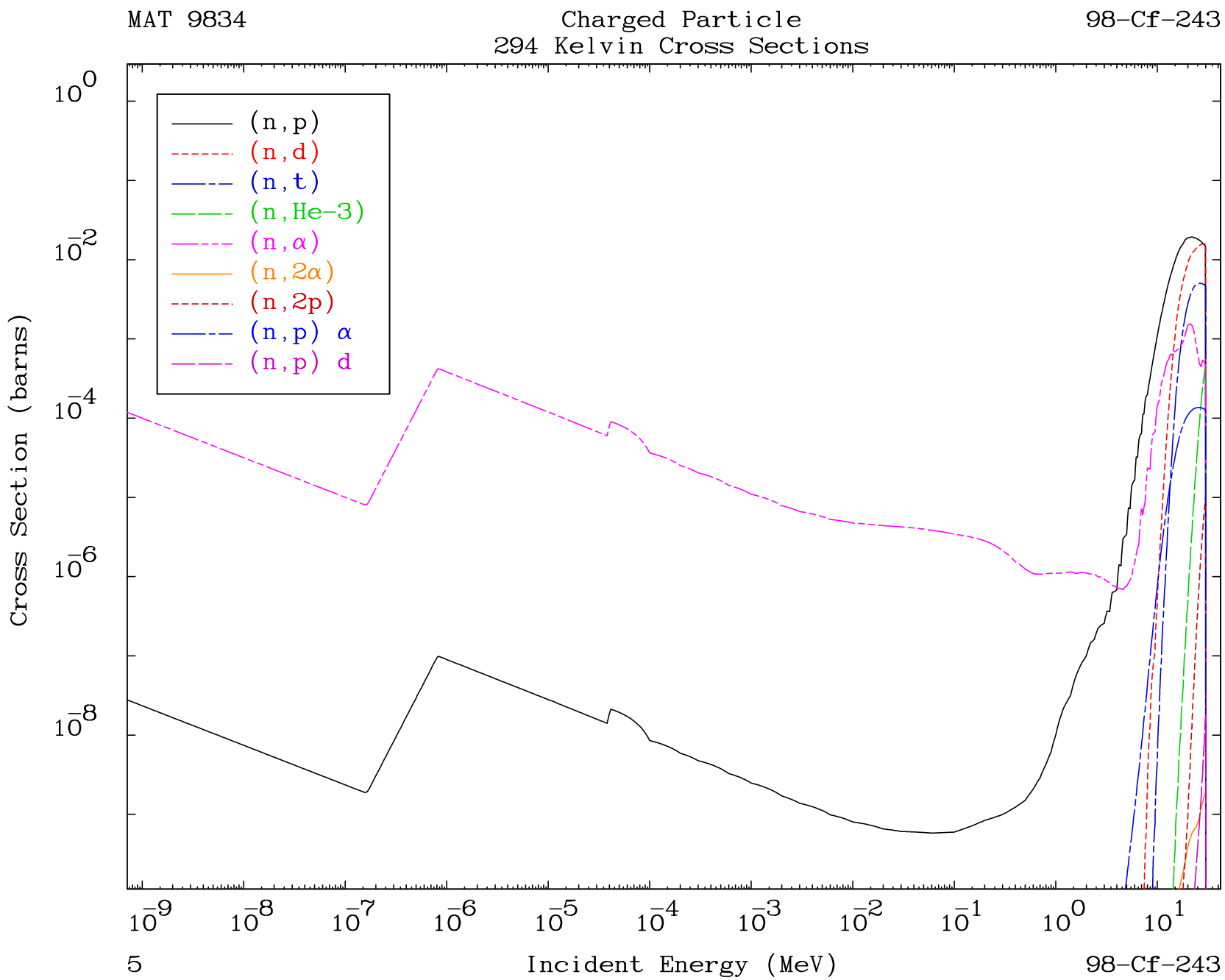

MAT 9834
Major
294 Kelvin Cross Sections
98-Cf-243
Cross Section (barns)
Incident Energy (MeV)
Total
Elastic
Inelastic
Fission
(n,γ)
1
98-Cf-243

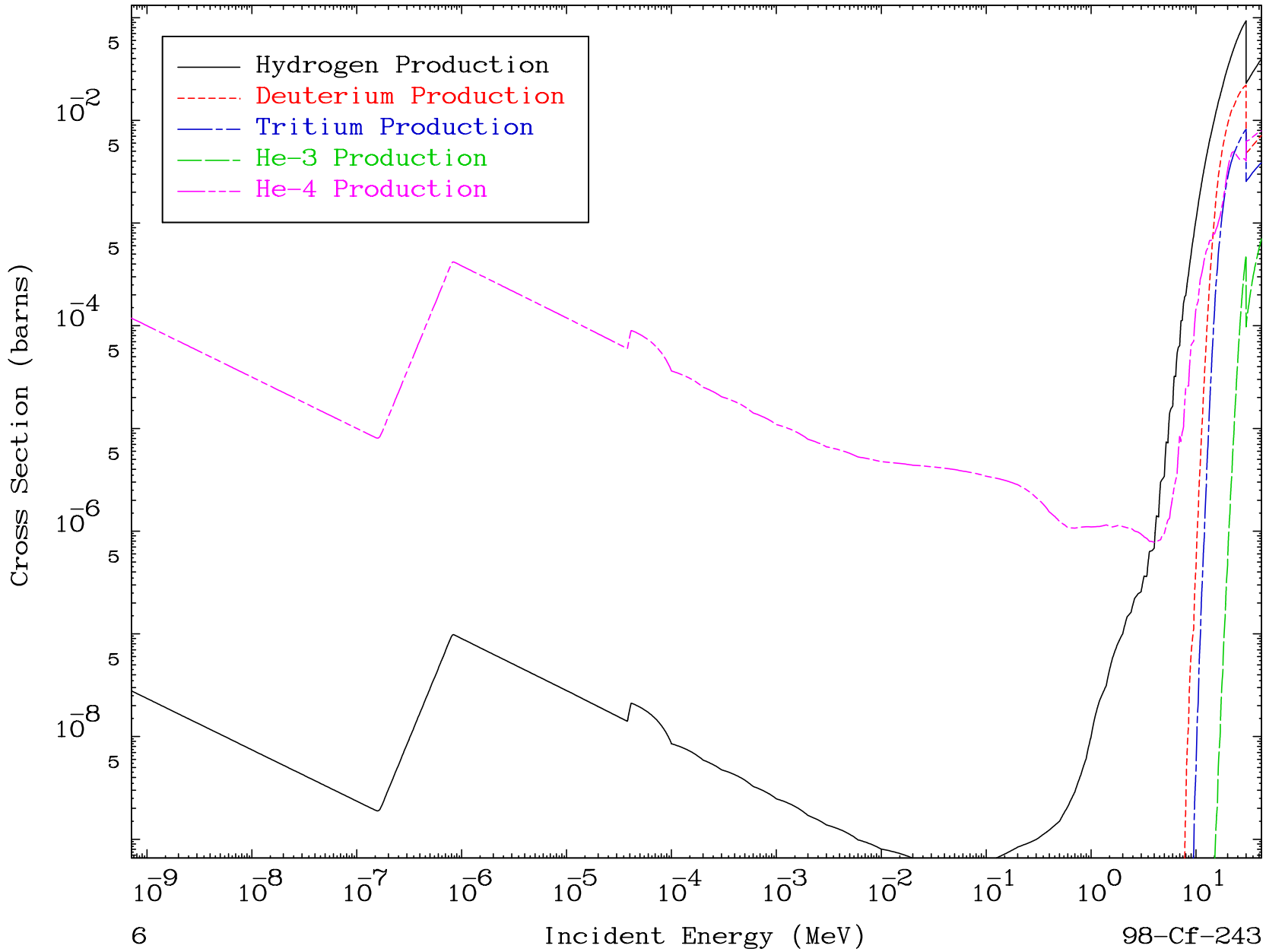

MAT 9834
Neutron Production
294 Kelvin Cross Sections
98-Cf-243
(n,2n)
(n,3n)
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
Cross Section (barns)
Incident Energy (MeV)
2
98-Cf-243

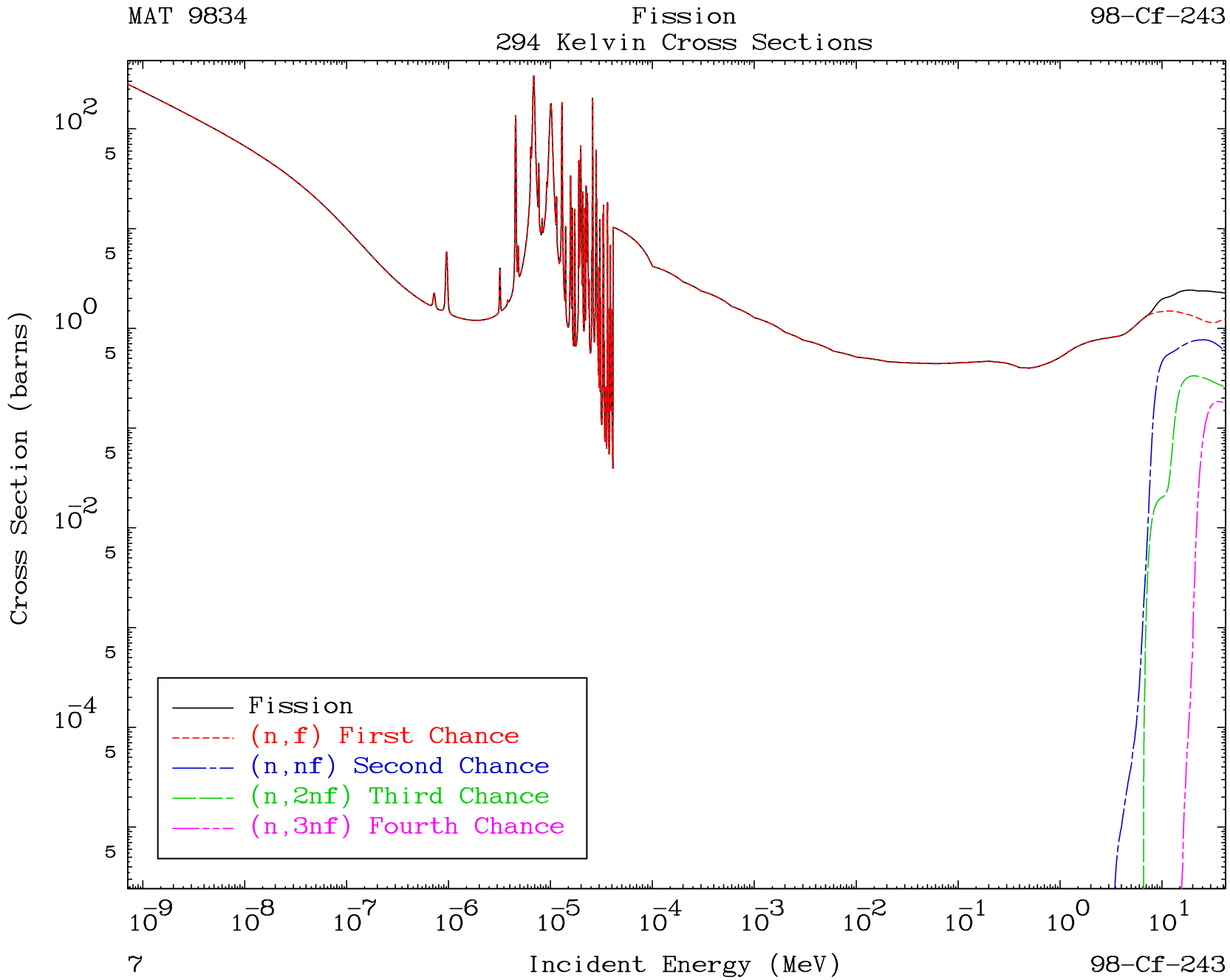

MAT 9834
Neutron Production
294 Kelvin Cross Sections
98-Cf-243
(n,n') d
(n,n') t
(n,n') He-3
(n,4n)
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
3
98-Cf-243

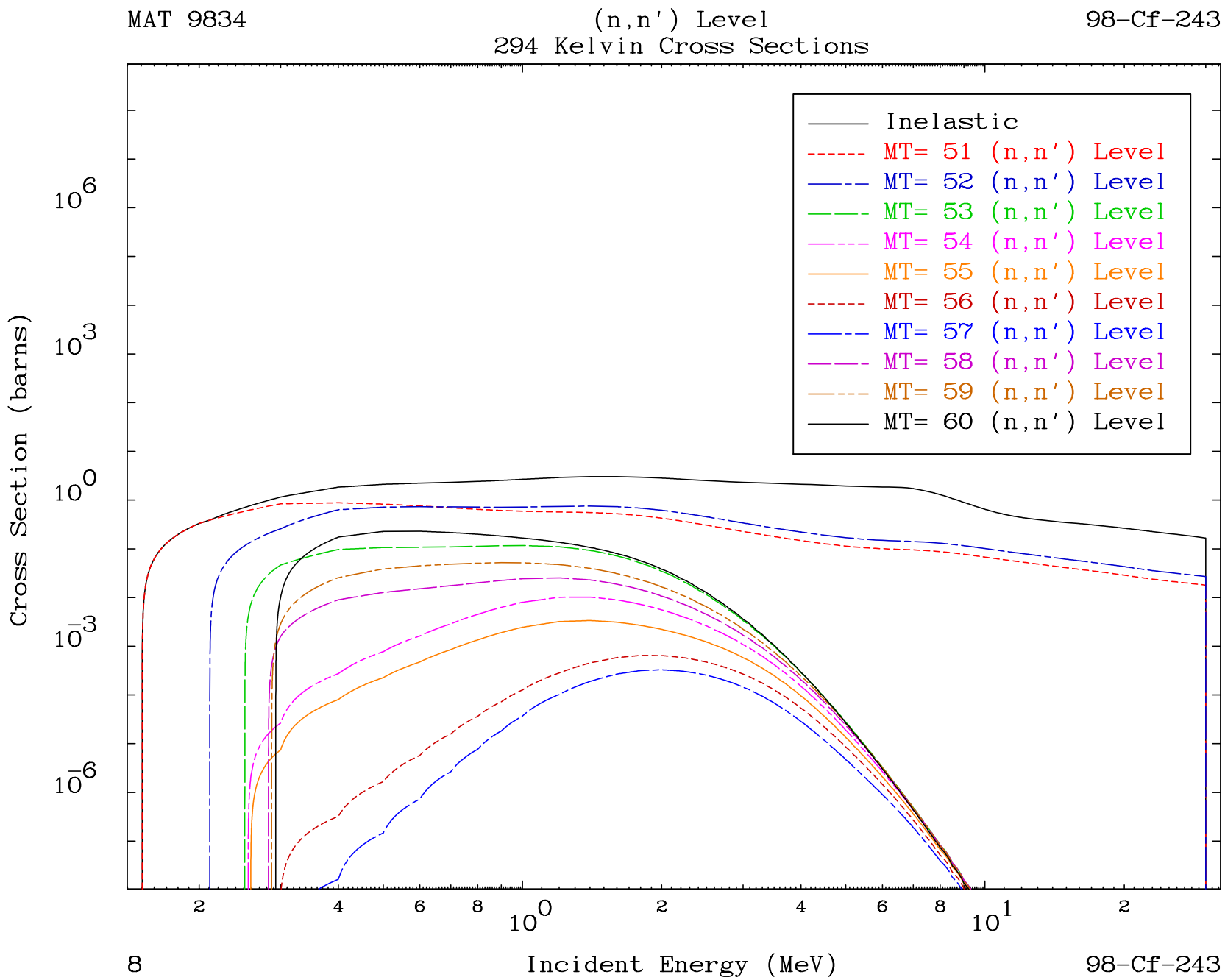

MAT 9834
Charged Particle
294 Kelvin Cross Sections
98-Cf-243
(n,n') α
(n,2n) α
(n,3n) α
(n,n') p
(n,n') d
(n,n') t
(n,n') He-3
(n,2n) p
(n,3n) p
Cross Section (barns)
Incident Energy (MeV)
4
98-Cf-243

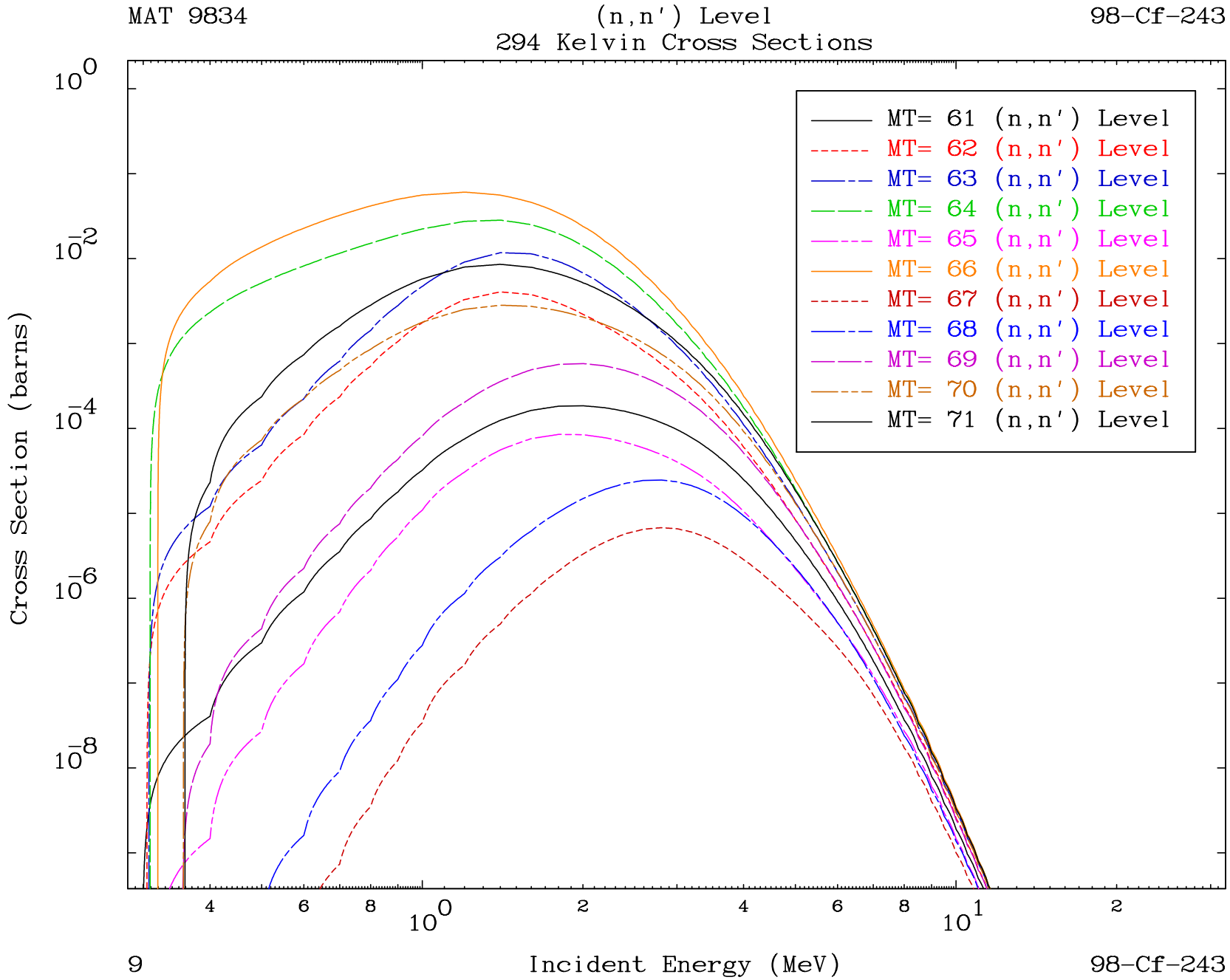

MAT 9834
Charged Particle
294 Kelvin Cross Sections
98-Cf-243
(n,p)
(n,d)
(n,t)
(n,He-3)
(n,α)
(n,2α)
(n,2p)
(n,p) α
(n,p) d
Cross Section (barns)
Incident Energy (MeV)
5
98-Cf-243

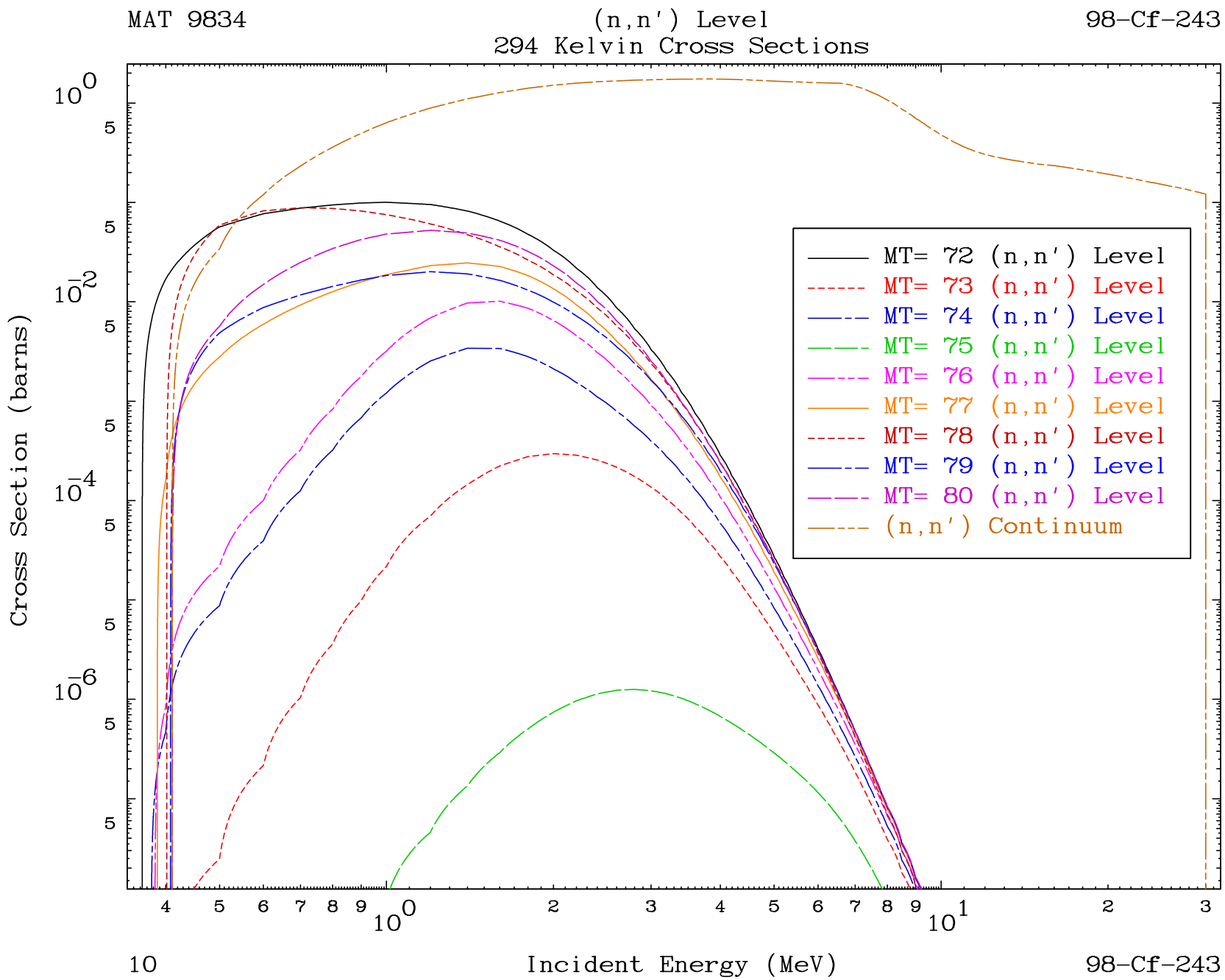
Particle Production
294 Kelvin Cross Sections



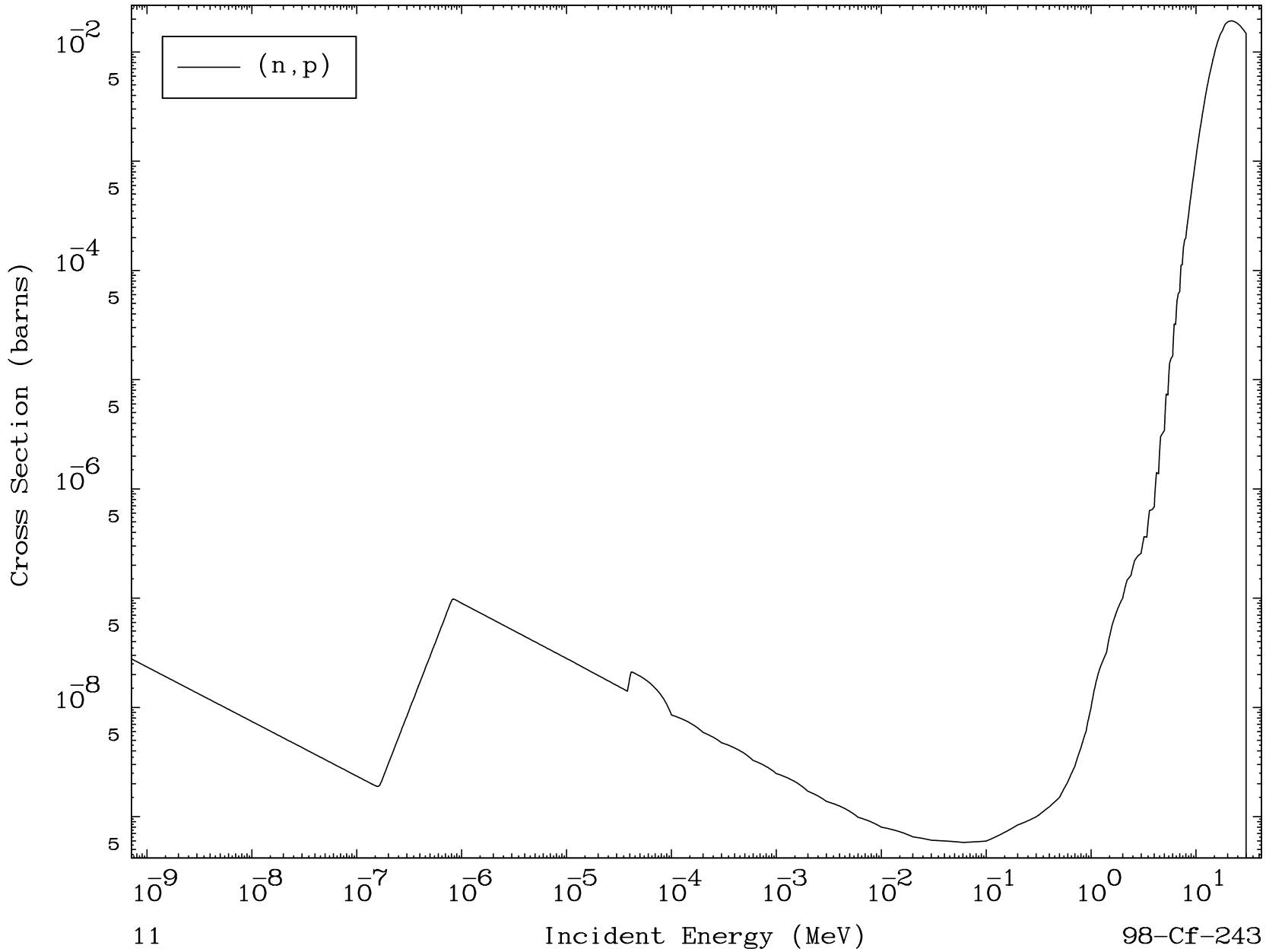

MAT 9834
Fission
98-Cf-243
294 Kelvin Cross Sections
Cross Section (barns)
Incident Energy (MeV)
Fission
(n,f) First Chance
(n,nf) Second Chance
(n,2nf) Third Chance
(n,3nf) Fourth Chance
7
98-Cf-243


MAT 9834
(n,n') Level
294 Kelvin Cross Sections
98-Cf-243
Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
MT= 53 (n,n') Level
MT= 54 (n,n') Level
MT= 55 (n,n') Level
MT= 56 (n,n') Level
MT= 57 (n,n') Level
MT= 58 (n,n') Level
MT= 59 (n,n') Level
MT= 60 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
8
98-Cf-243

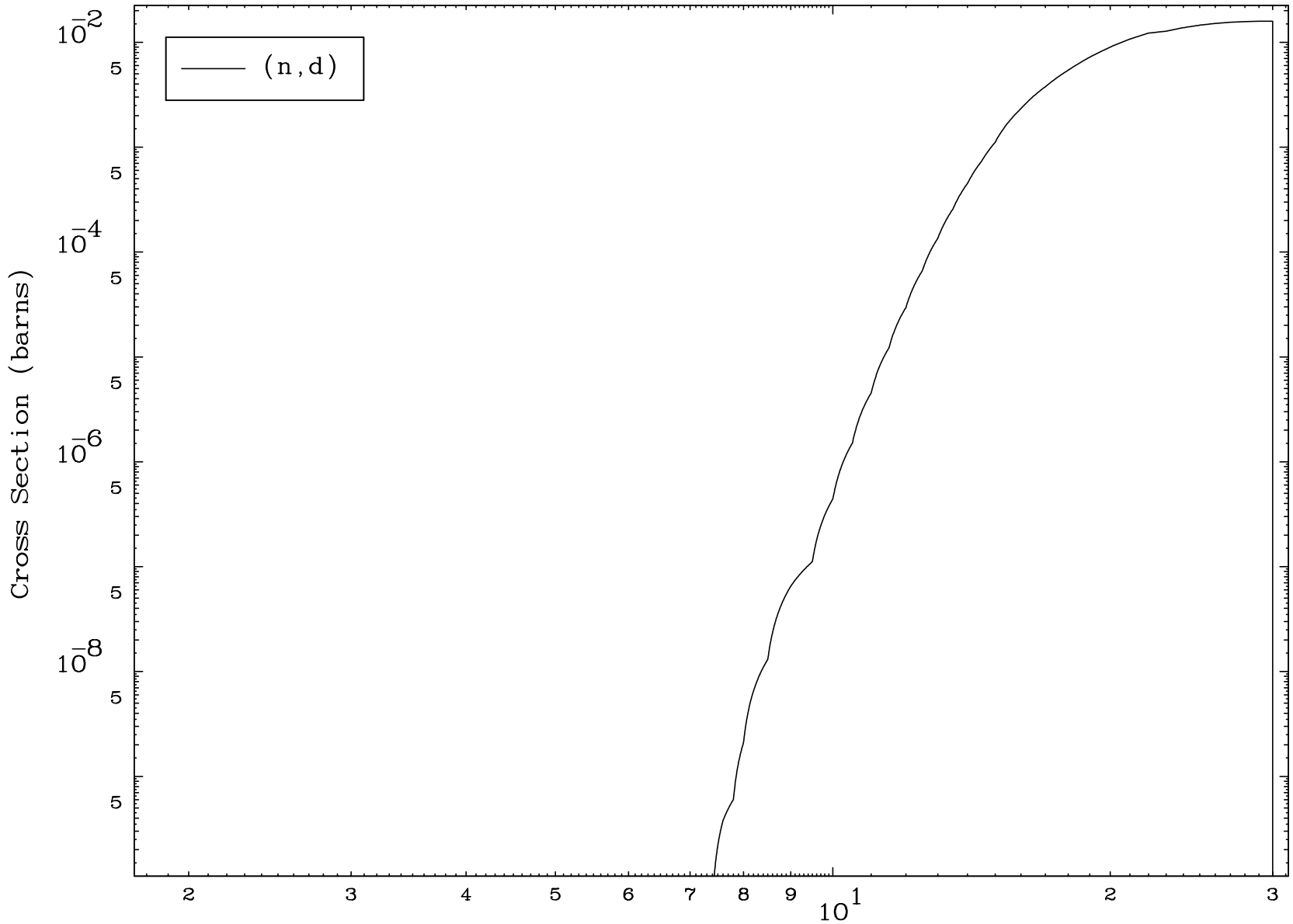

MAT 9834
(n,n') Level
294 Kelvin Cross Sections
98-Cf-243
MT= 61 (n,n') Level
MT= 62 (n,n') Level
MT= 63 (n,n') Level
MT= 64 (n,n') Level
MT= 65 (n,n') Level
MT= 66 (n,n') Level
MT= 67 (n,n') Level
MT= 68 (n,n') Level
MT= 69 (n,n') Level
MT= 70 (n,n') Level
MT= 71 (n,n') Level
Cross Section (barns)
Incident Energy (MeV)
9
98-Cf-243


MAT 9834
(n,n') Level
294 Kelvin Cross Sections
98-Cf-243
Cross Section (barns)
Incident Energy (MeV)
MT= 72 (n,n') Level
MT= 73 (n,n') Level
MT= 74 (n,n') Level
MT= 75 (n,n') Level
MT= 76 (n,n') Level
MT= 77 (n,n') Level
MT= 78 (n,n') Level
MT= 79 (n,n') Level
MT= 80 (n,n') Level
(n,n') Continuum
10
98-Cf-243

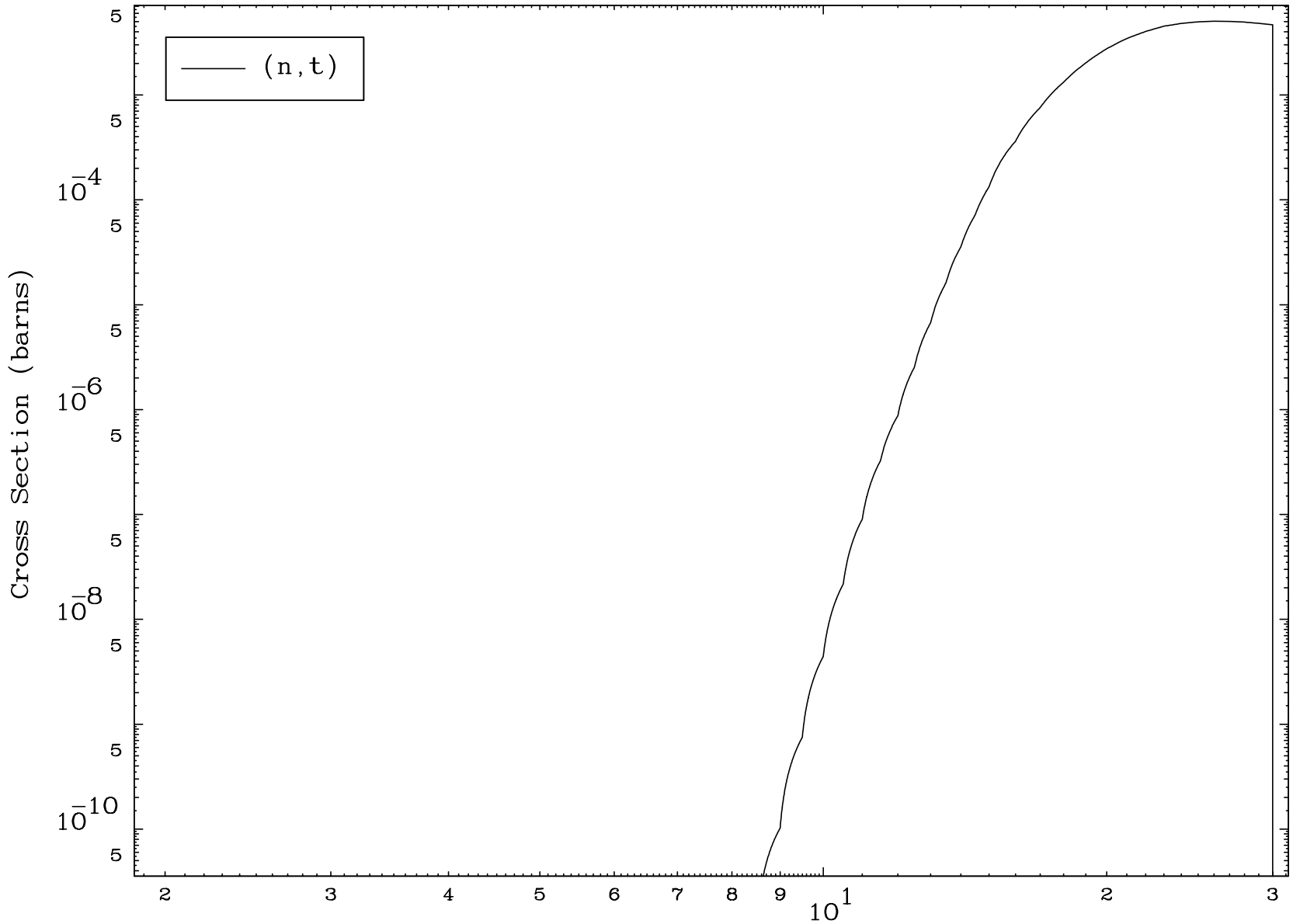
(n,p) Levels
294 Kelvin Cross Sections



(n,d) Levels
294 Kelvin Cross Sections

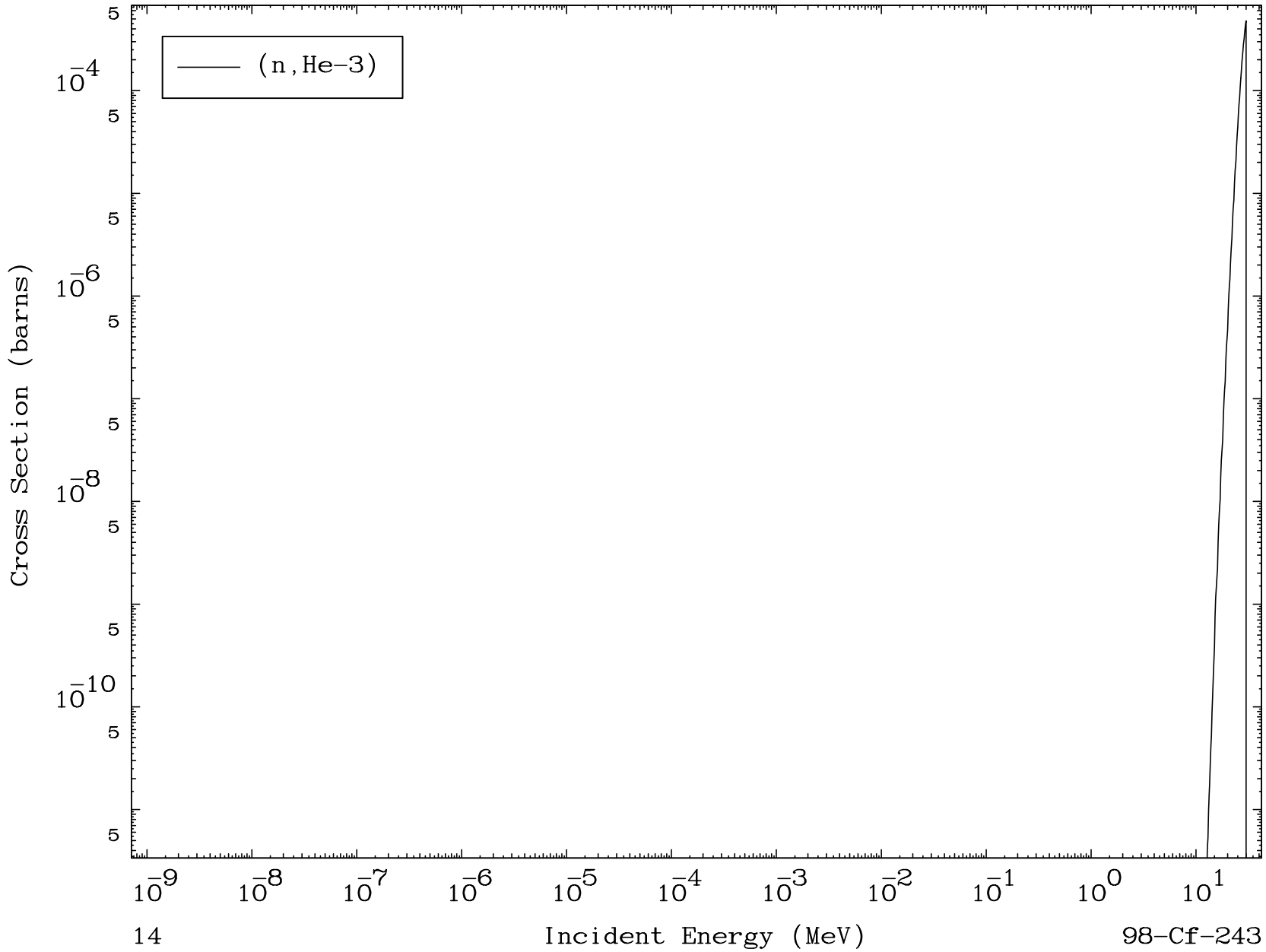


(n,t) Levels
294 Kelvin Cross Sections

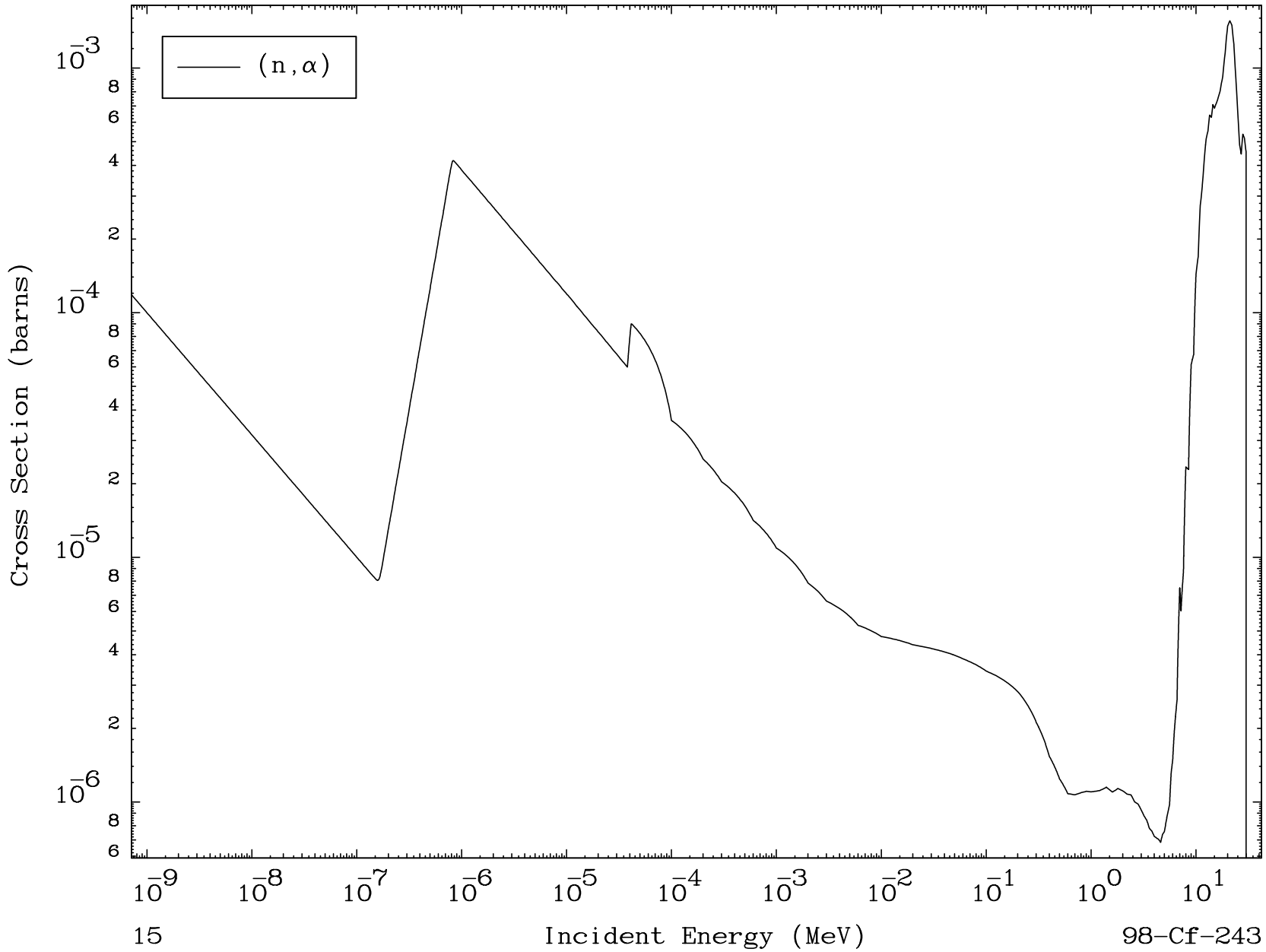


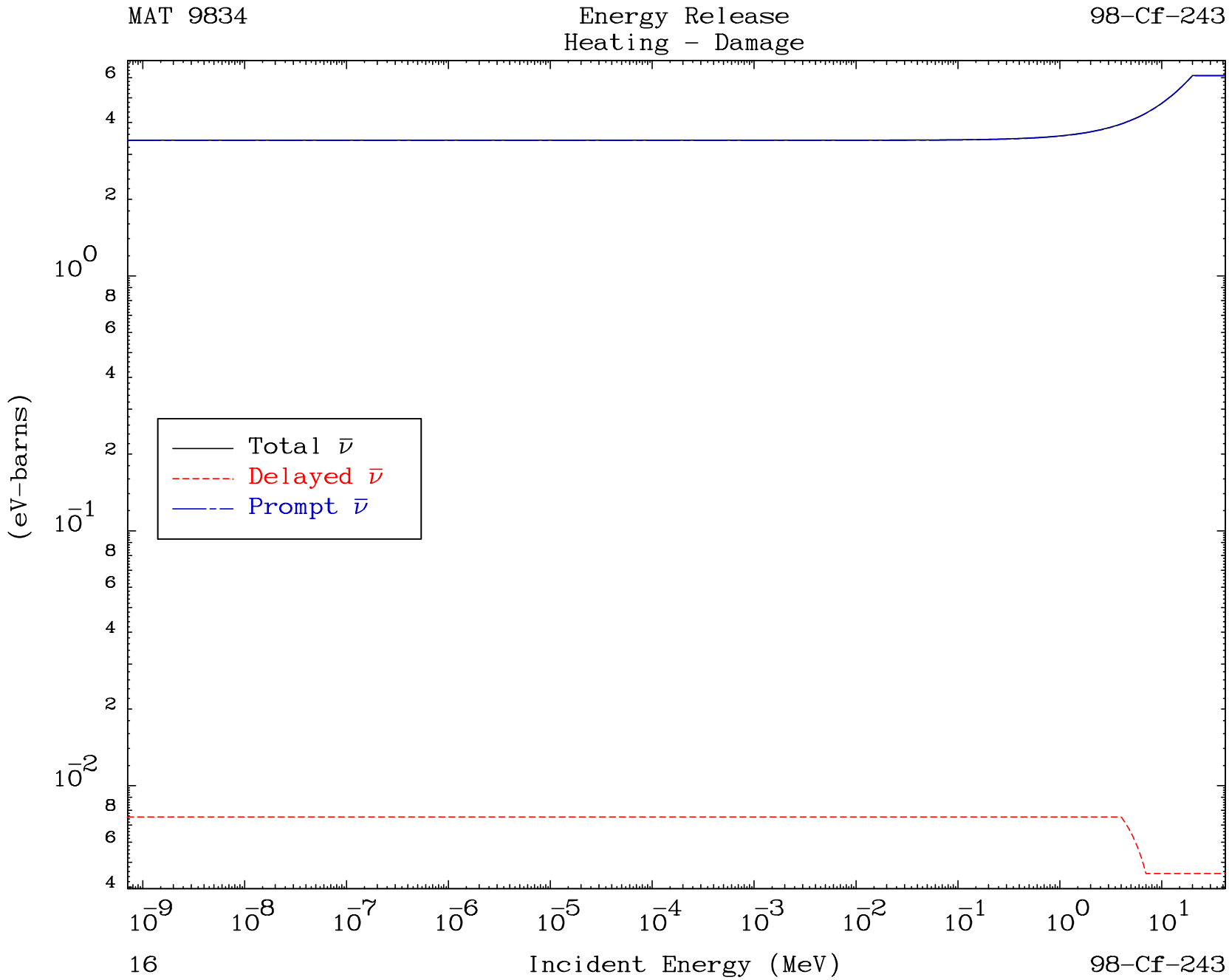
Incident Energy (MeV)

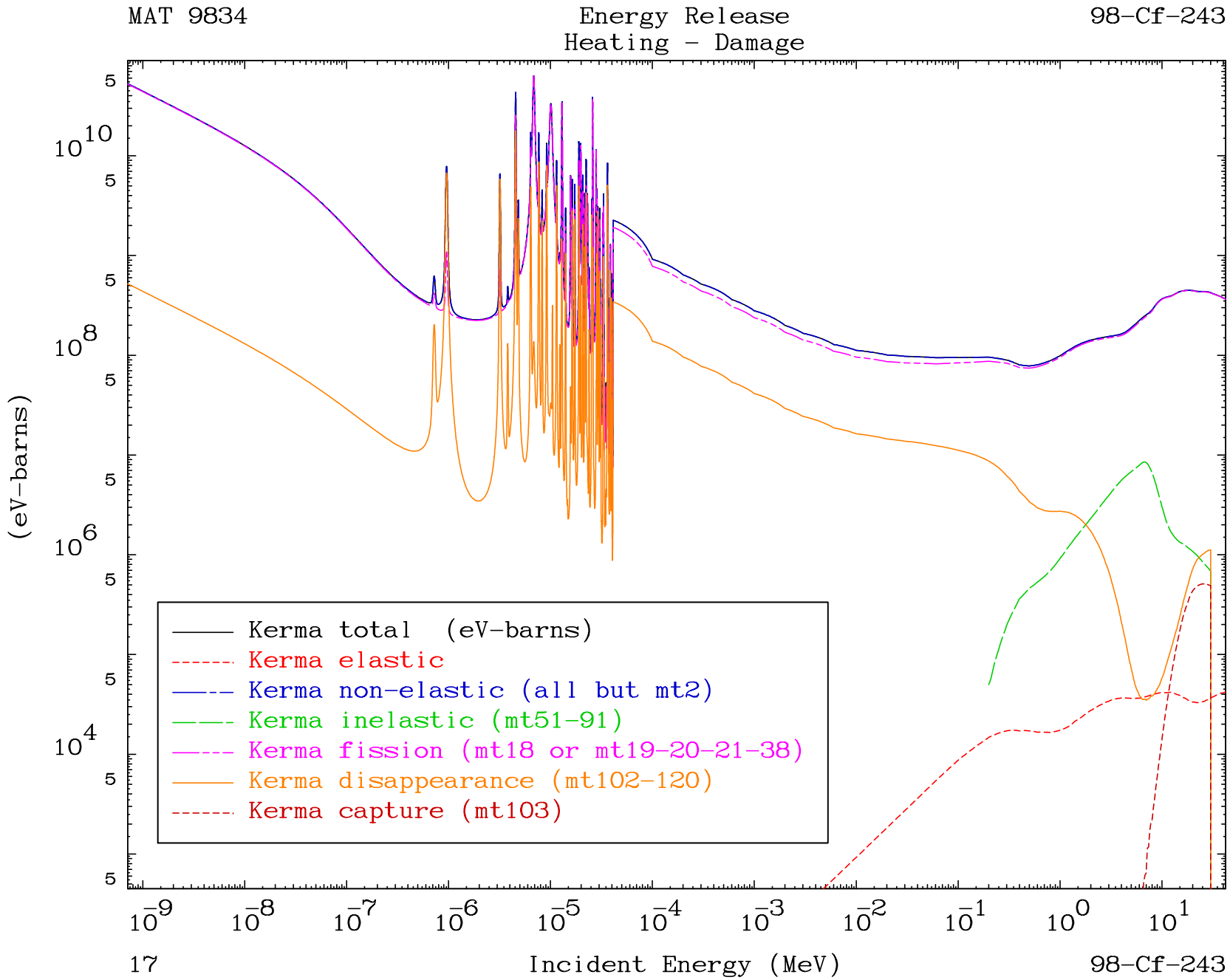
(n,He3) Levels
294 Kelvin Cross Sections



(n,α) Levels
294 Kelvin Cross Sections




MAT 9834
Energy Release
Heating - Damage
98-Cf-243
(eV-barns)
Total $\bar{\nu}$
Delayed $\bar{\nu}$
Prompt $\bar{\nu}$
Incident Energy (MeV)
16
98-Cf-243


MAT 9834
Energy Release
Heating - Damage
98-Cf-243
(eV-barns)
Kerma total (eV-barns)
Kerma elastic
Kerma non-elastic (all but mt2)
Kerma inelastic (mt51-91)
Kerma fission (mt18 or mt19-20-21-38)
Kerma disappearance (mt102-120)
Kerma capture (mt103)
Incident Energy (MeV)
17
98-Cf-243