

Program EVALPLOT  
(Version 2015-2)

by

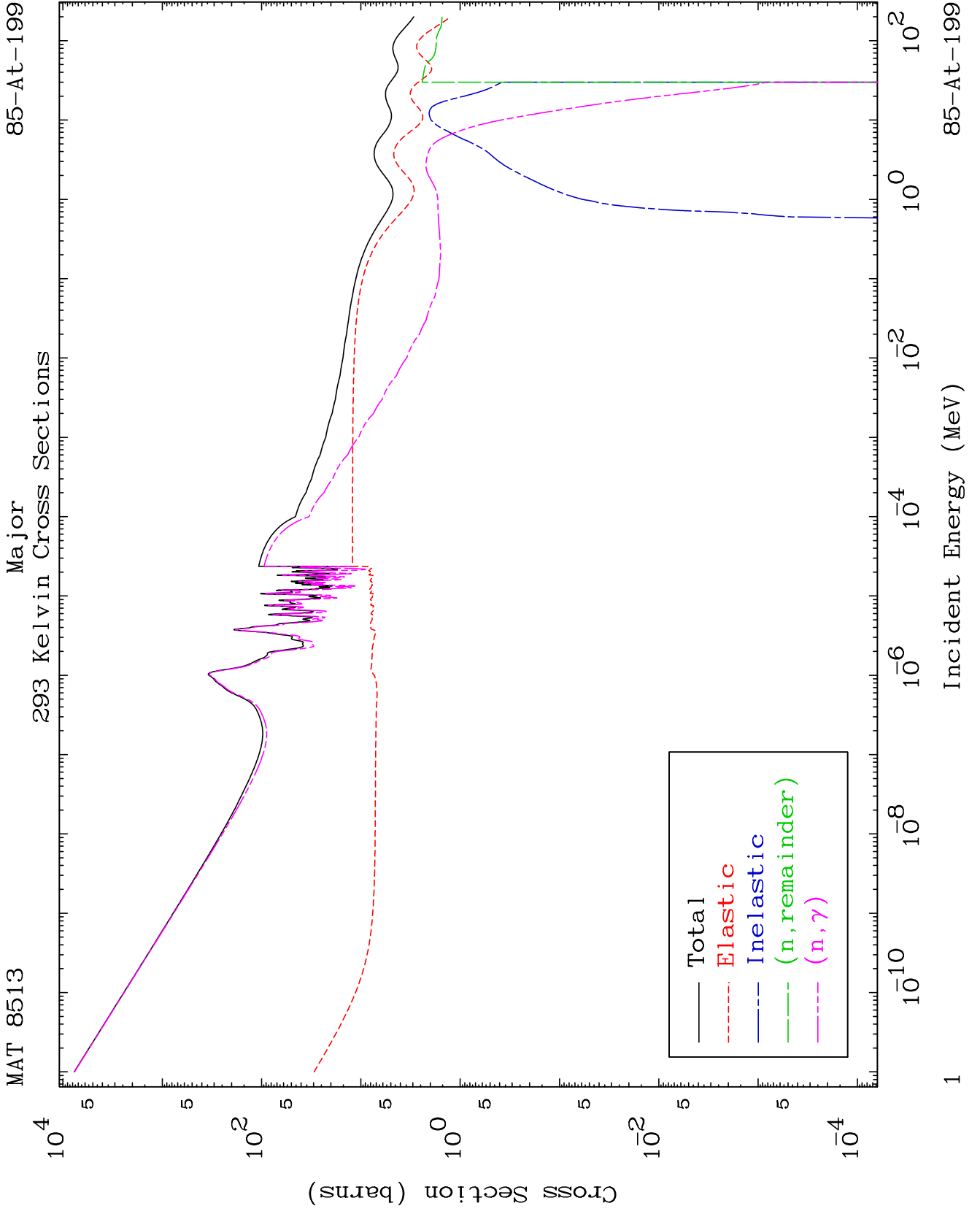
Dermott E. Cullen  
(Present Contact Information)

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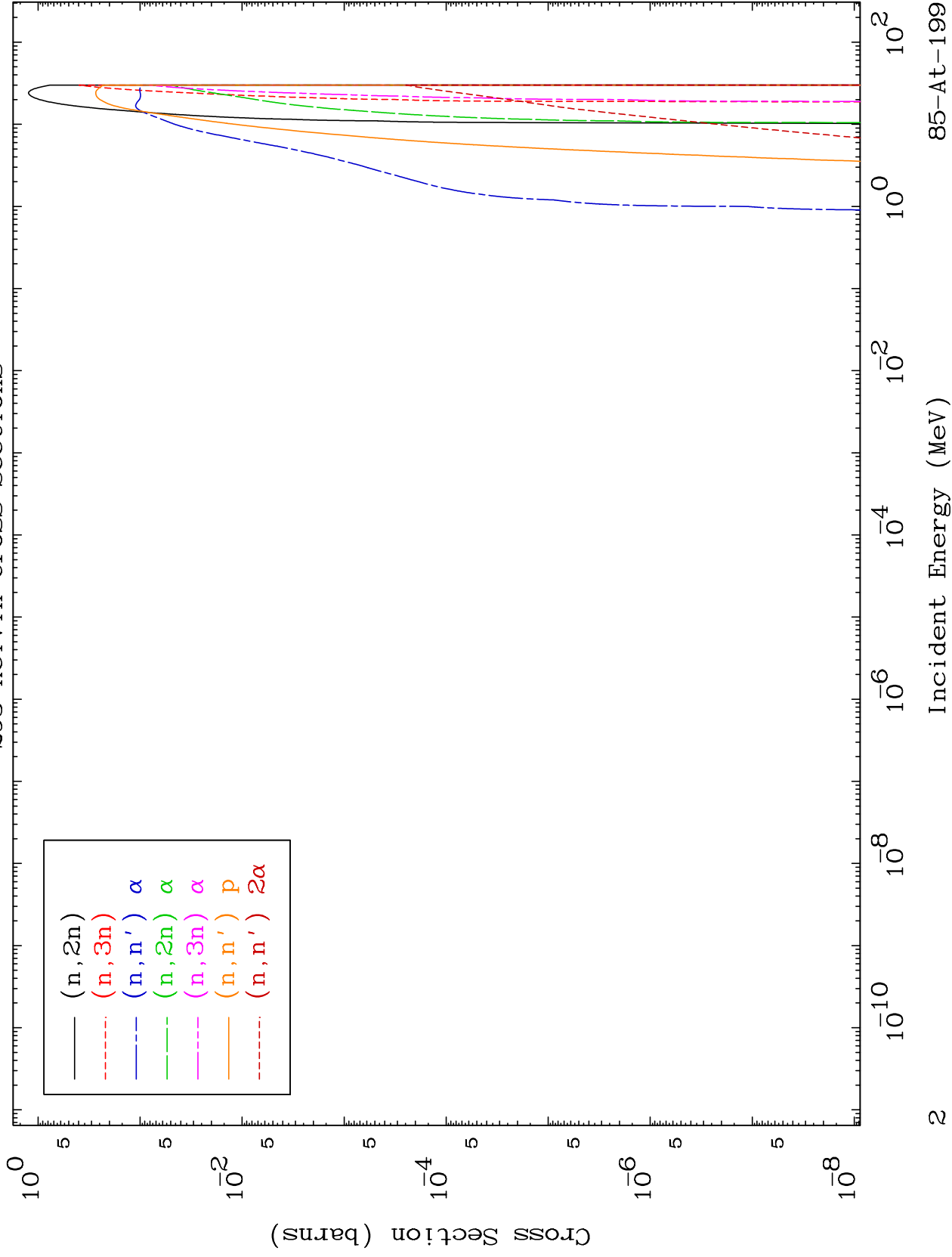
Press Mouse Button to Start



MAT 8513

Neutron Production  
293 Kelvin Cross Sections

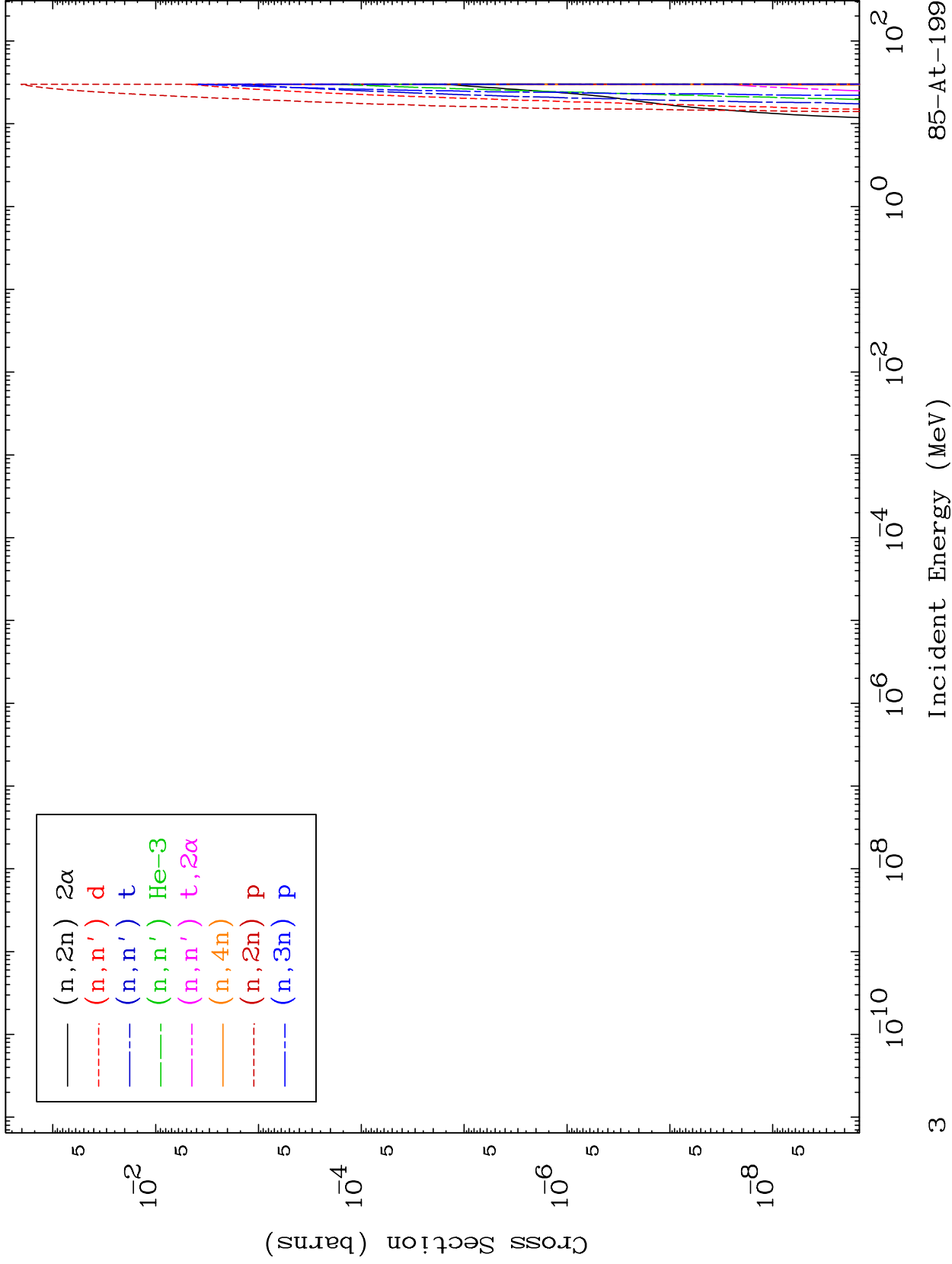
85-At-199



MAT 8513

Neutron Production  
293 Kelvin Cross Sections

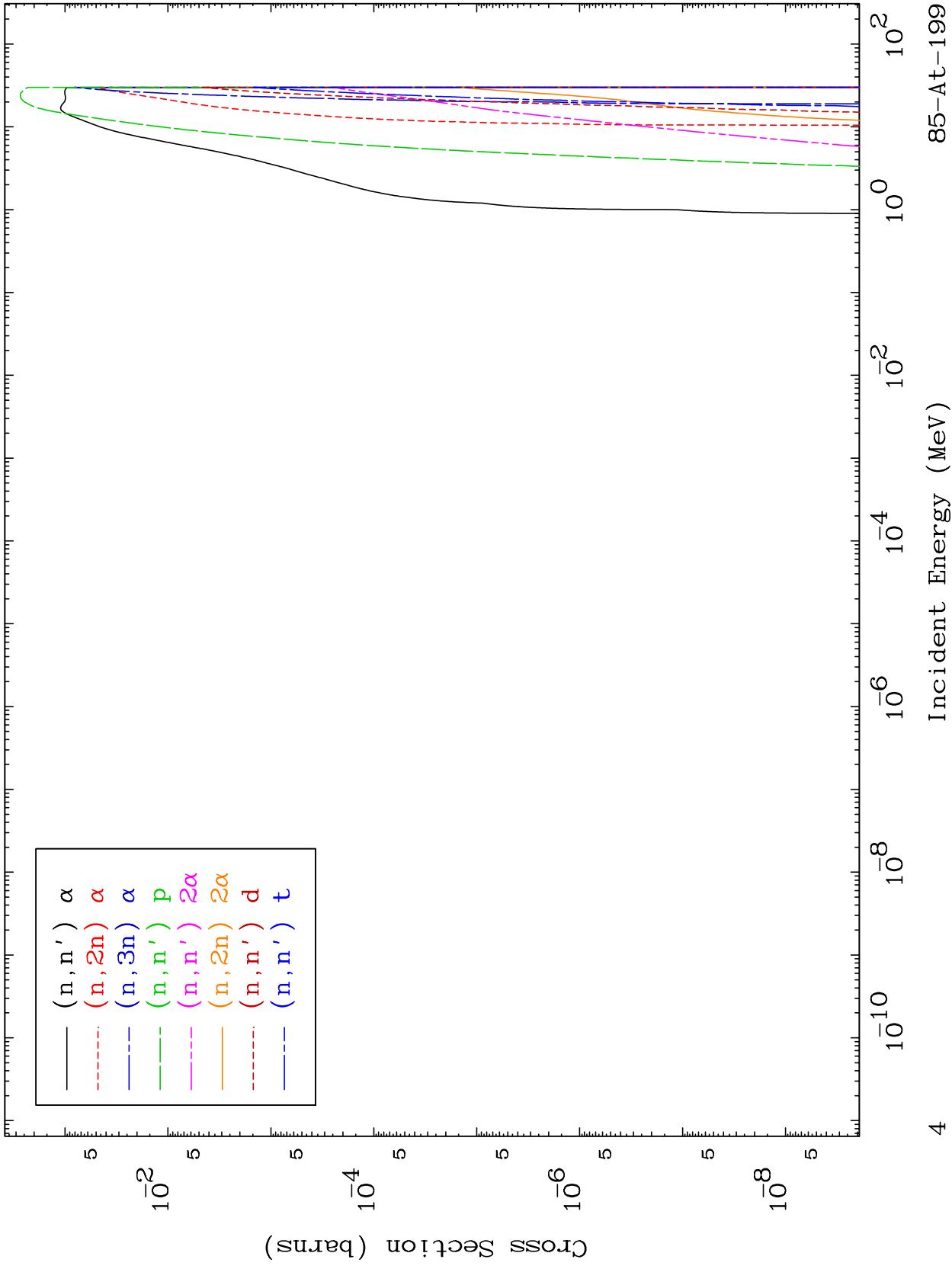
85-At-199



MAT 8513

Charged Particle  
293 Kelvin Cross Sections

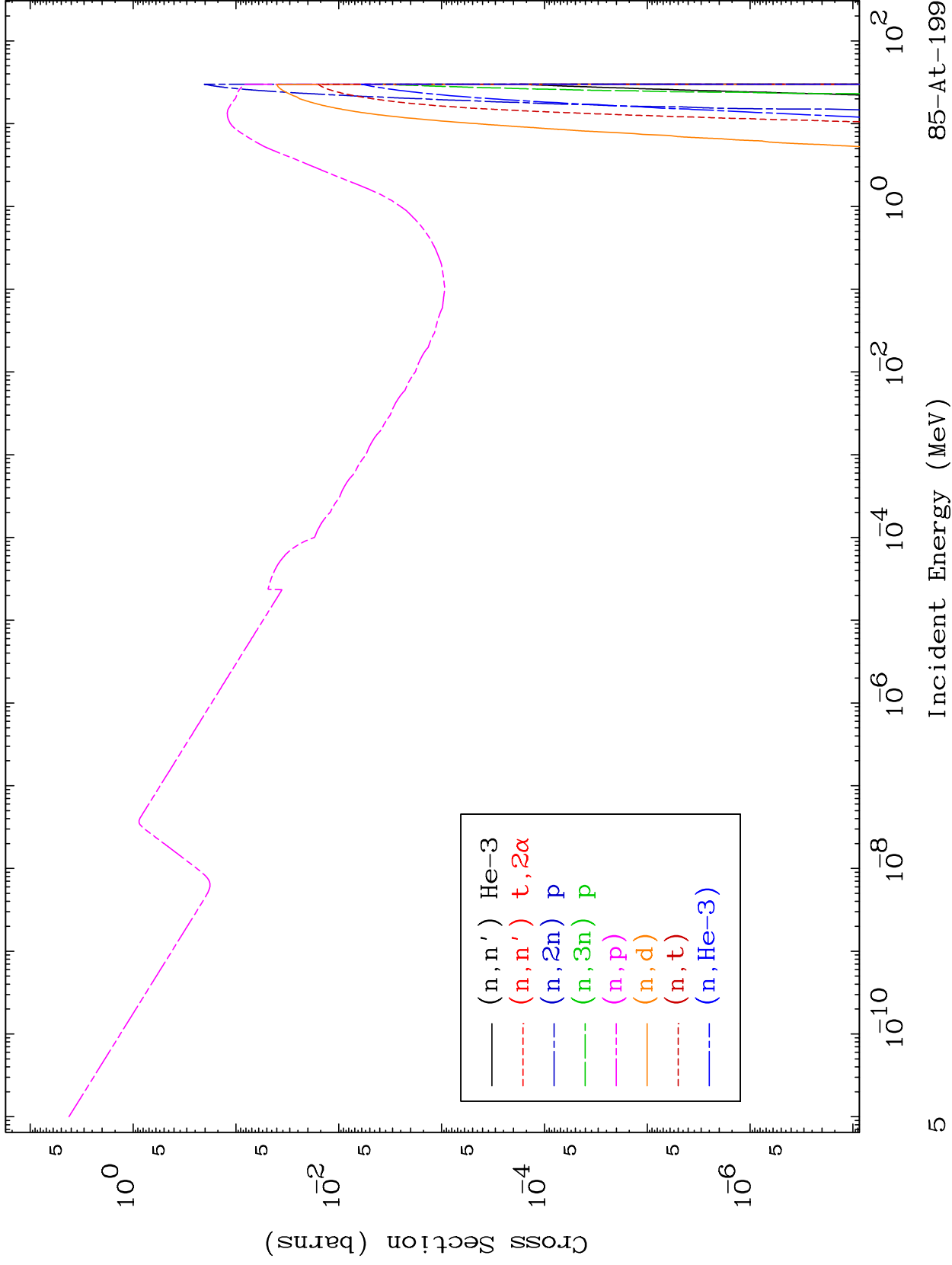
85-At-199



MAT 8513

Charged Particle  
293 Kelvin Cross Sections

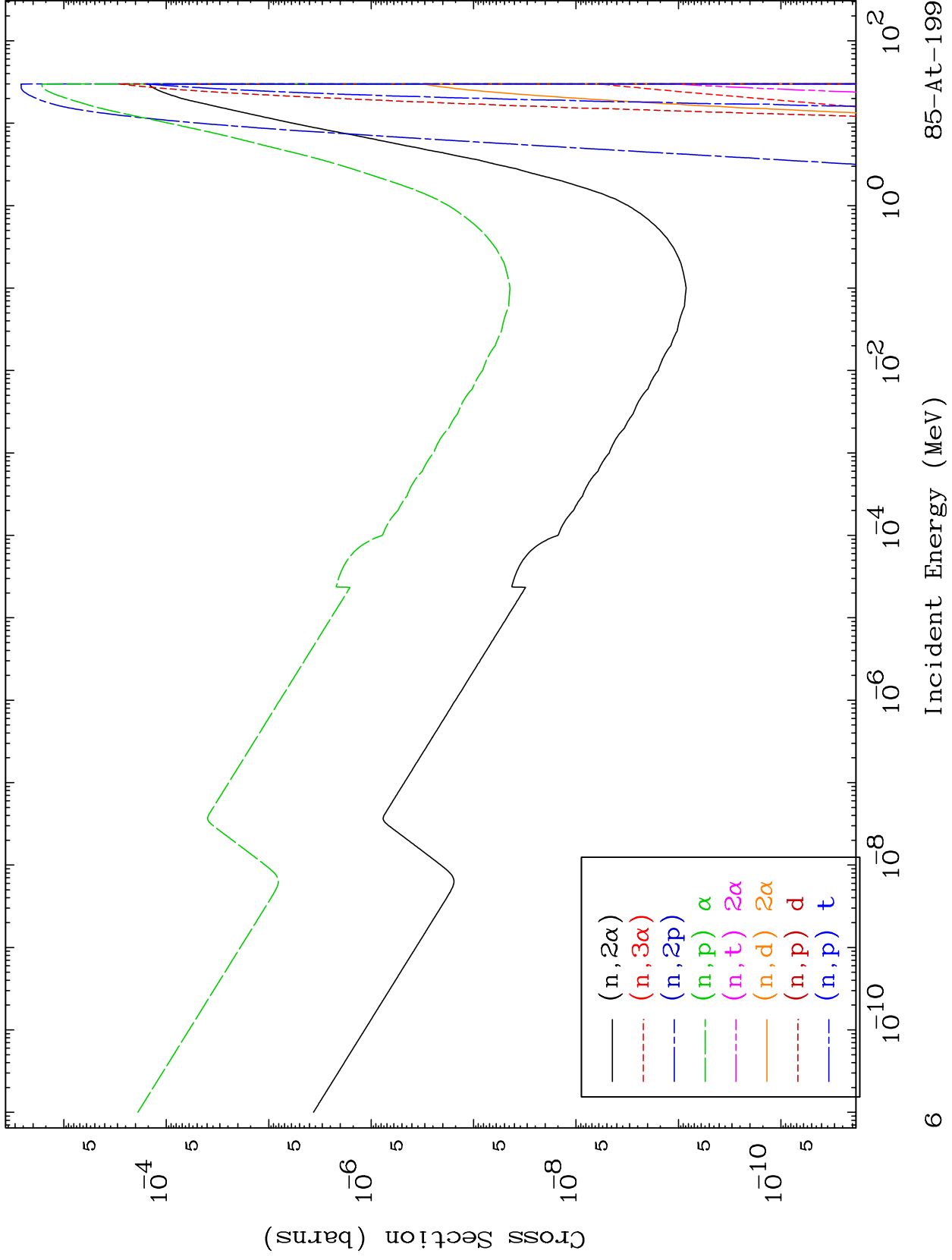
85-At-199



MAT 8513

Charged Particle  
293 Kelvin Cross Sections

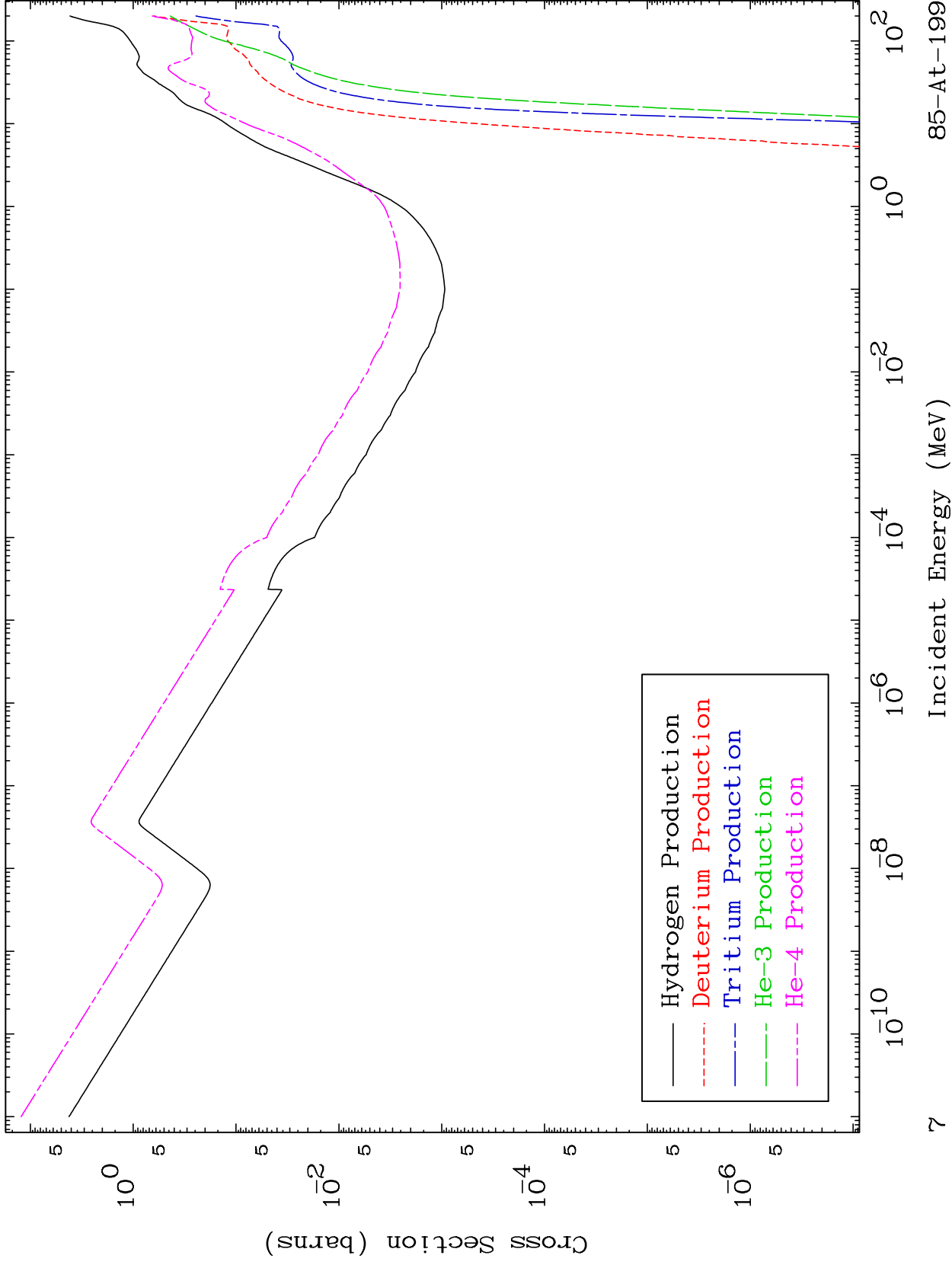
85-At-199



MAT 8513

Particle Production  
293 Kelvin Cross Sections

85-At-199



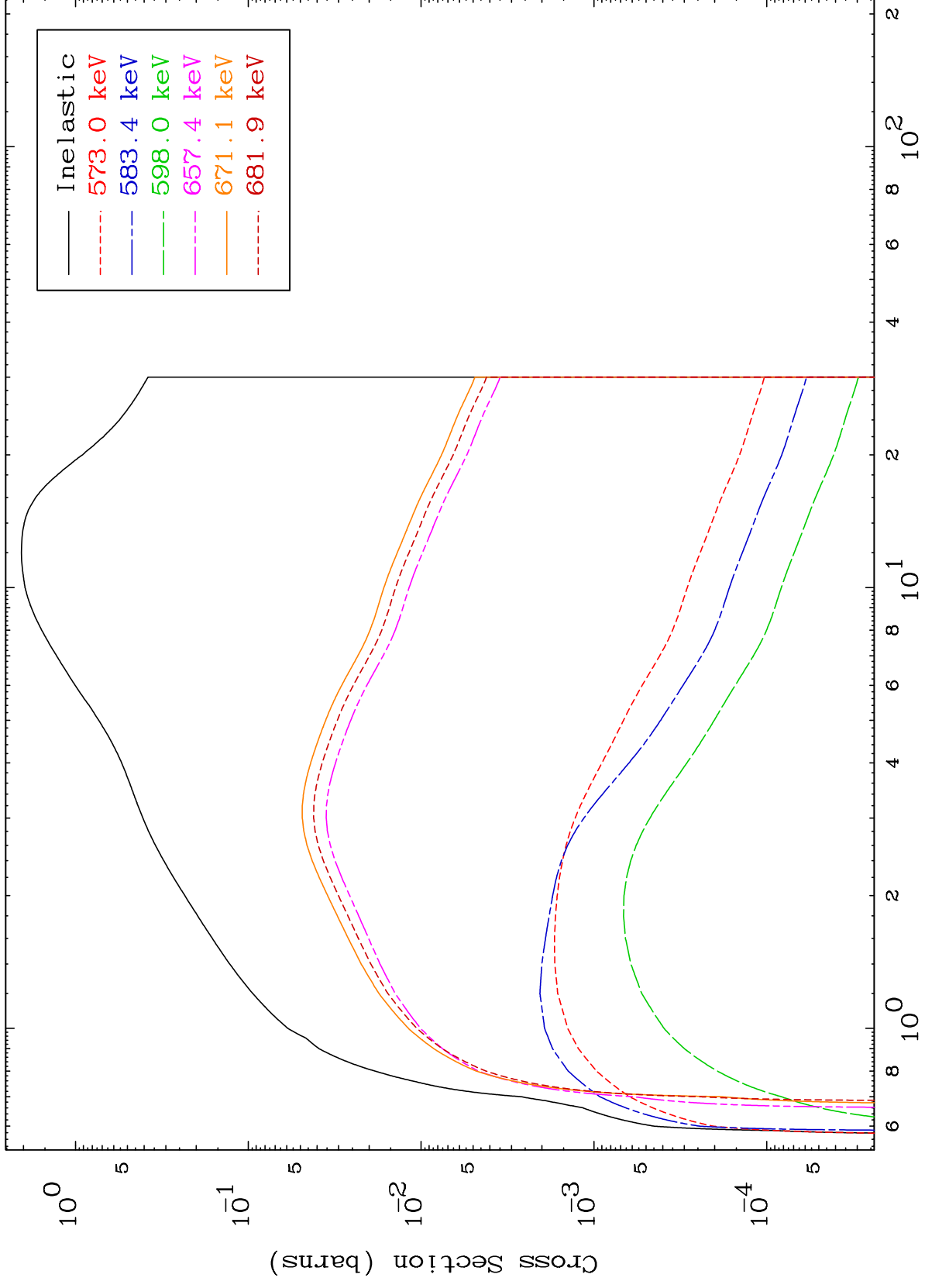


MAT 8513

(n,n') Level

85-At-199

293 Kelvin Cross Sections



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Incident Energy (MeV)

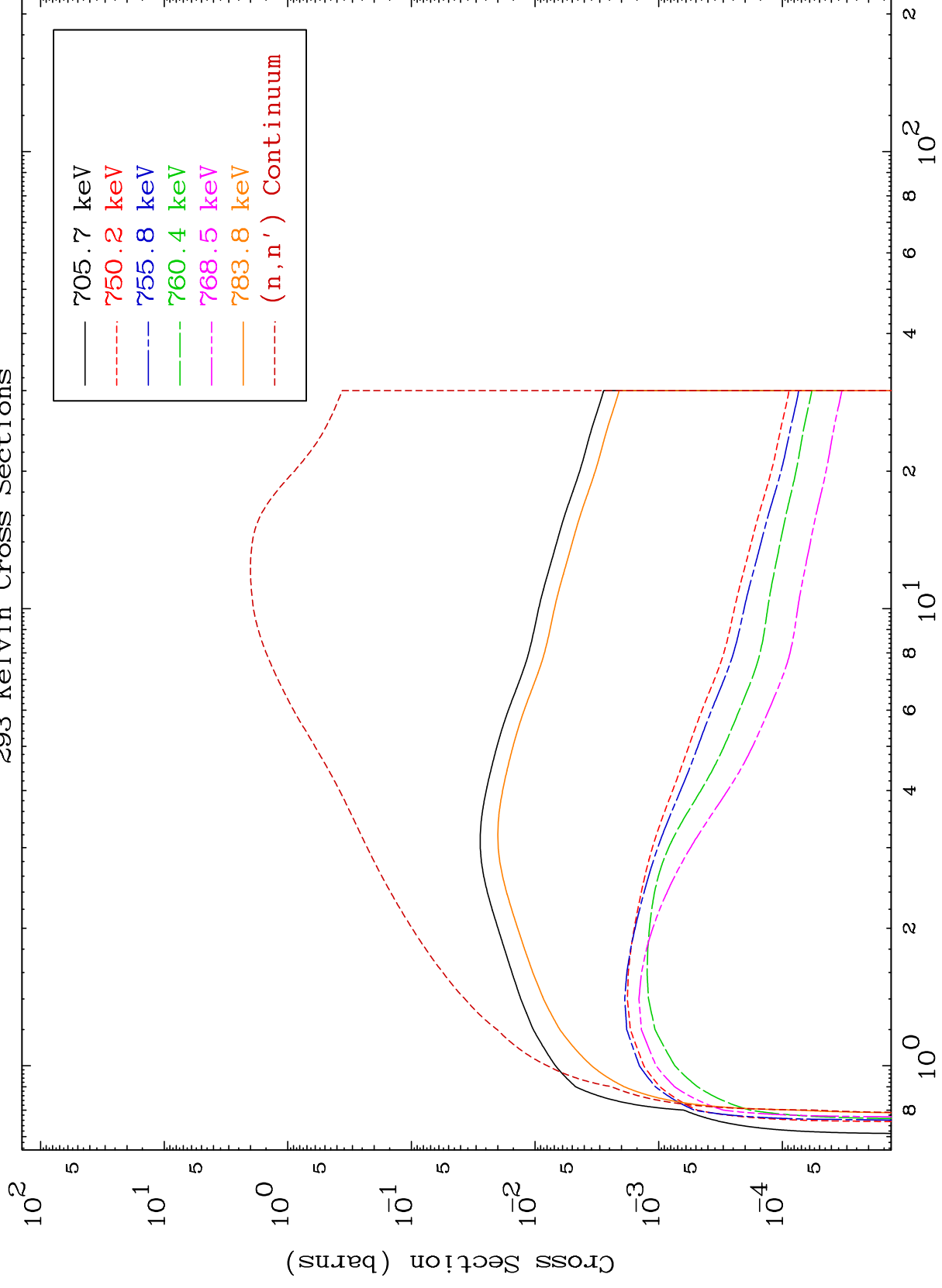
85-At-199

MAT 8513

(n,n') Level

85-At-199

293 Kelvin Cross Sections



9

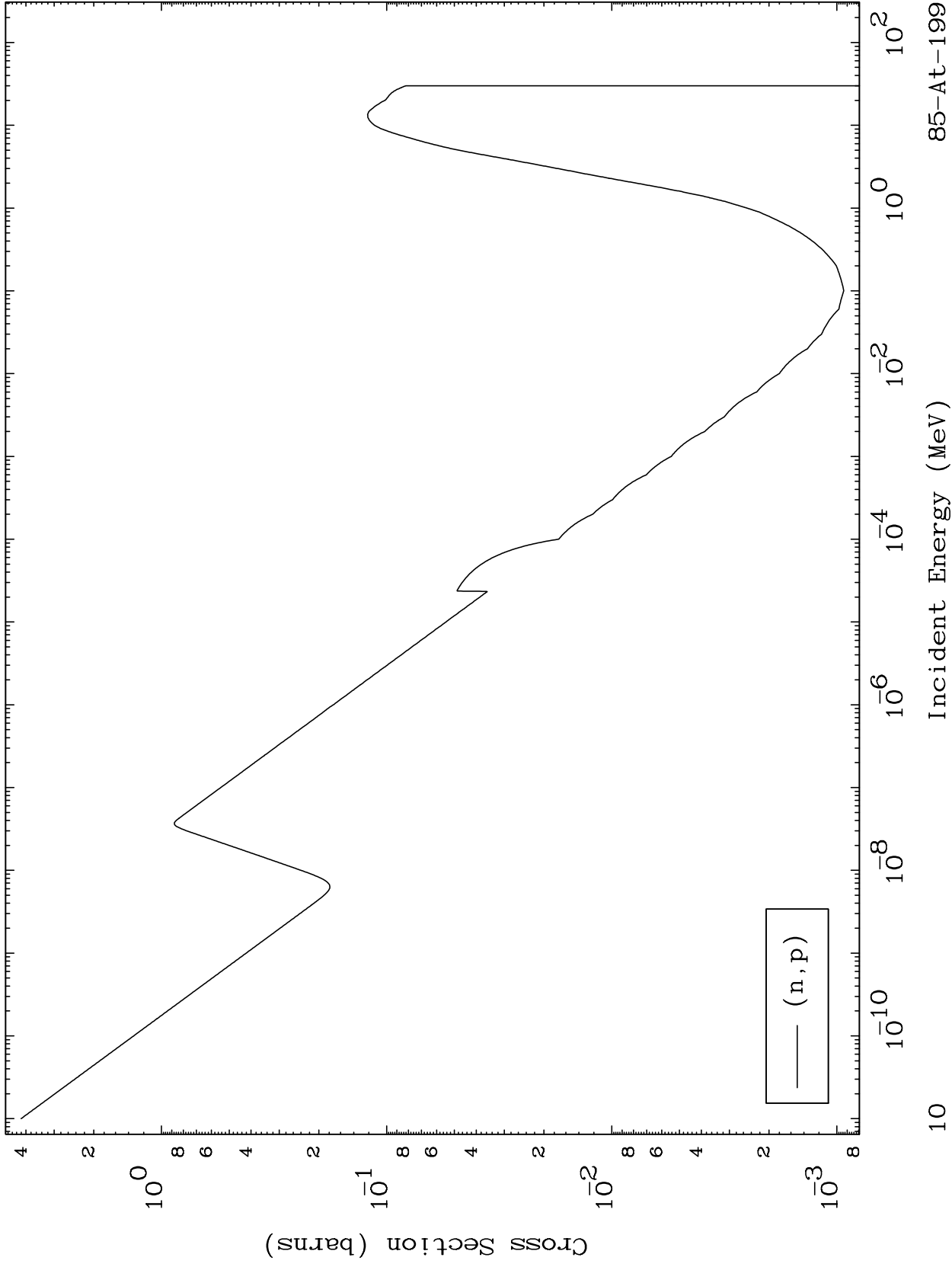
Incident Energy (MeV)

85-At-199

MAT 8513

(n,p) Levels  
293 Kelvin Cross Sections

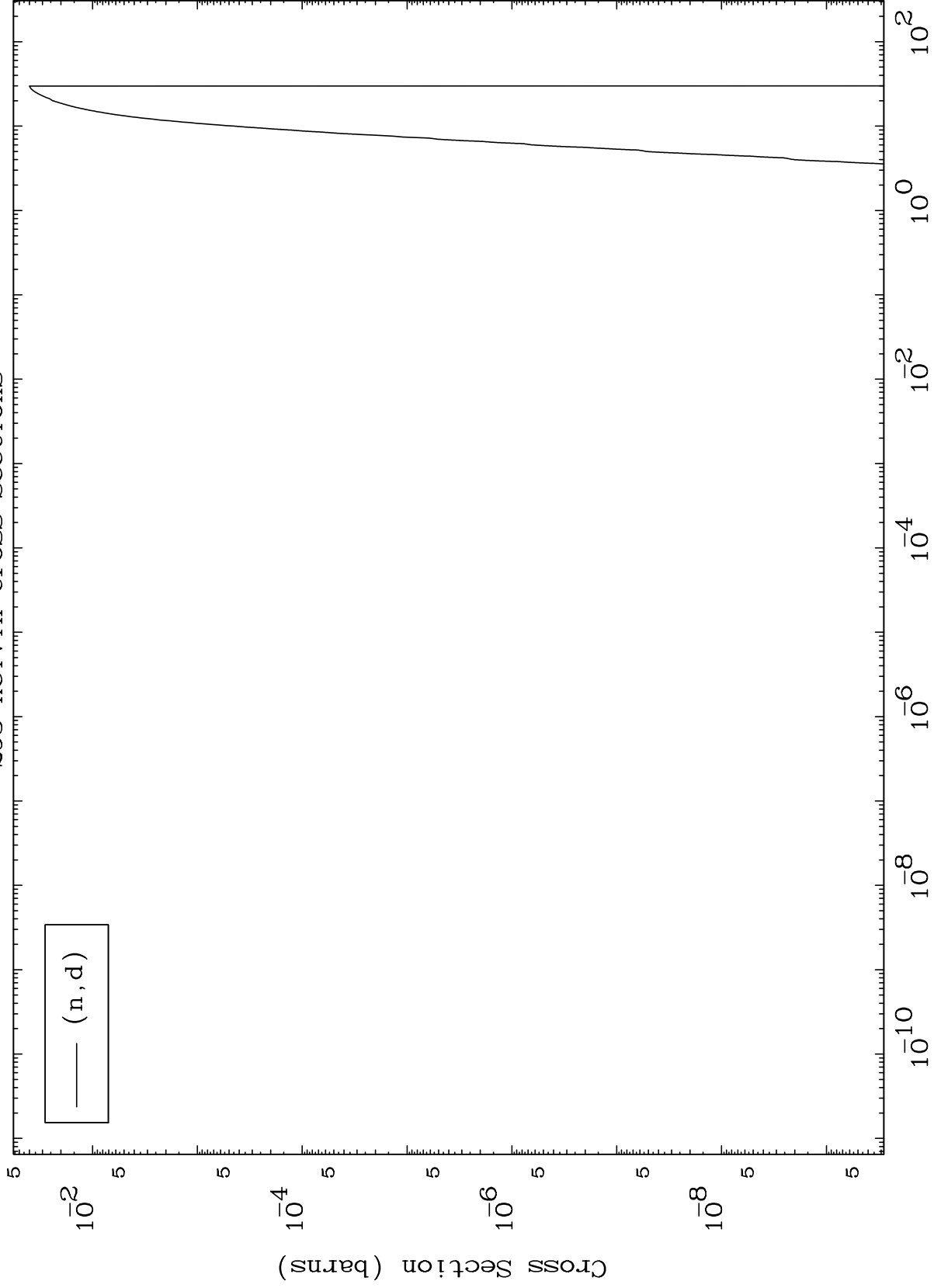
85-At-199



MAT 8513

(n,d) Levels  
293 Kelvin Cross Sections

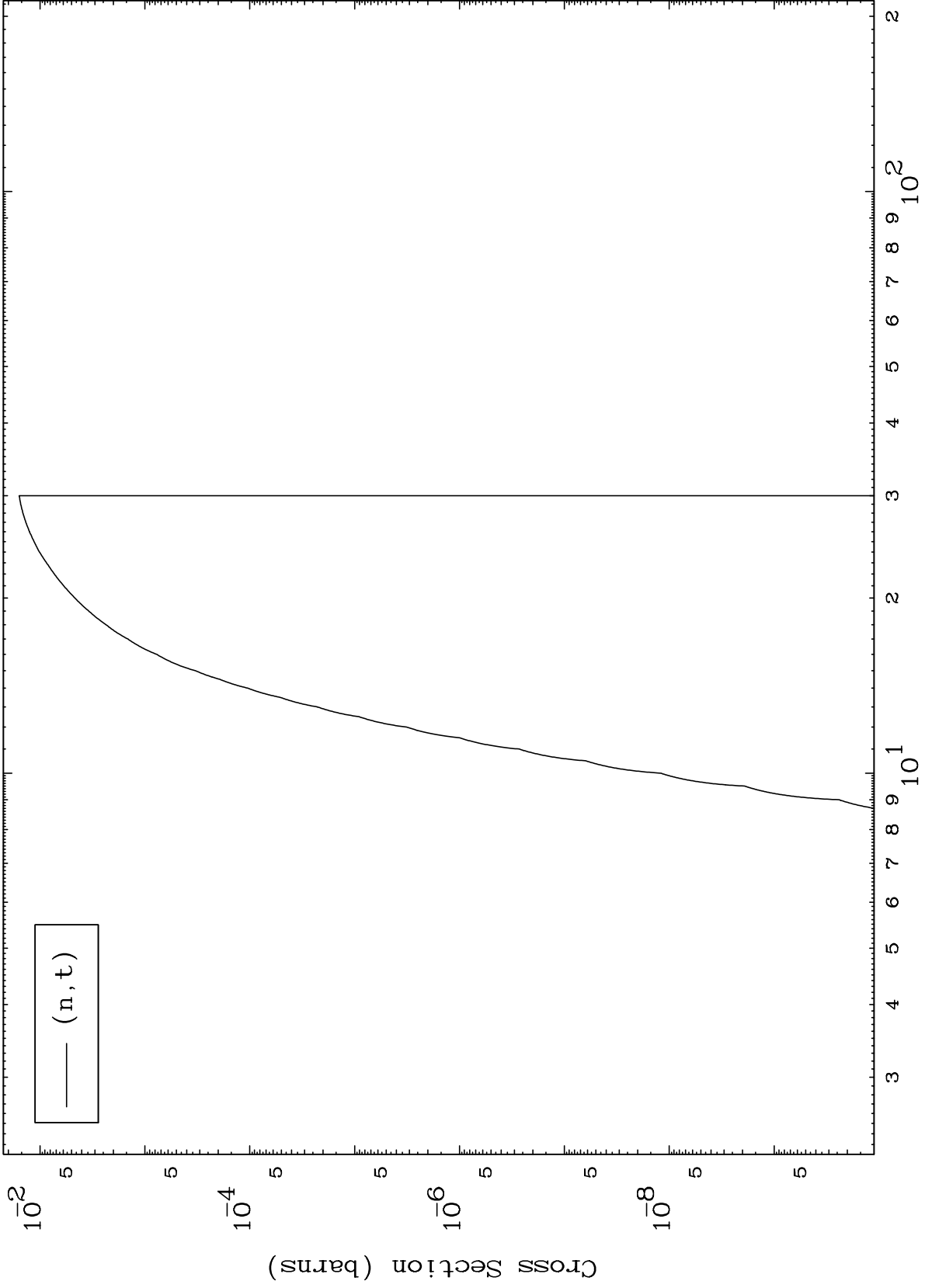
85-At-199



MAT 8513

(n,t) Levels  
293 Kelvin Cross Sections

85-At-199



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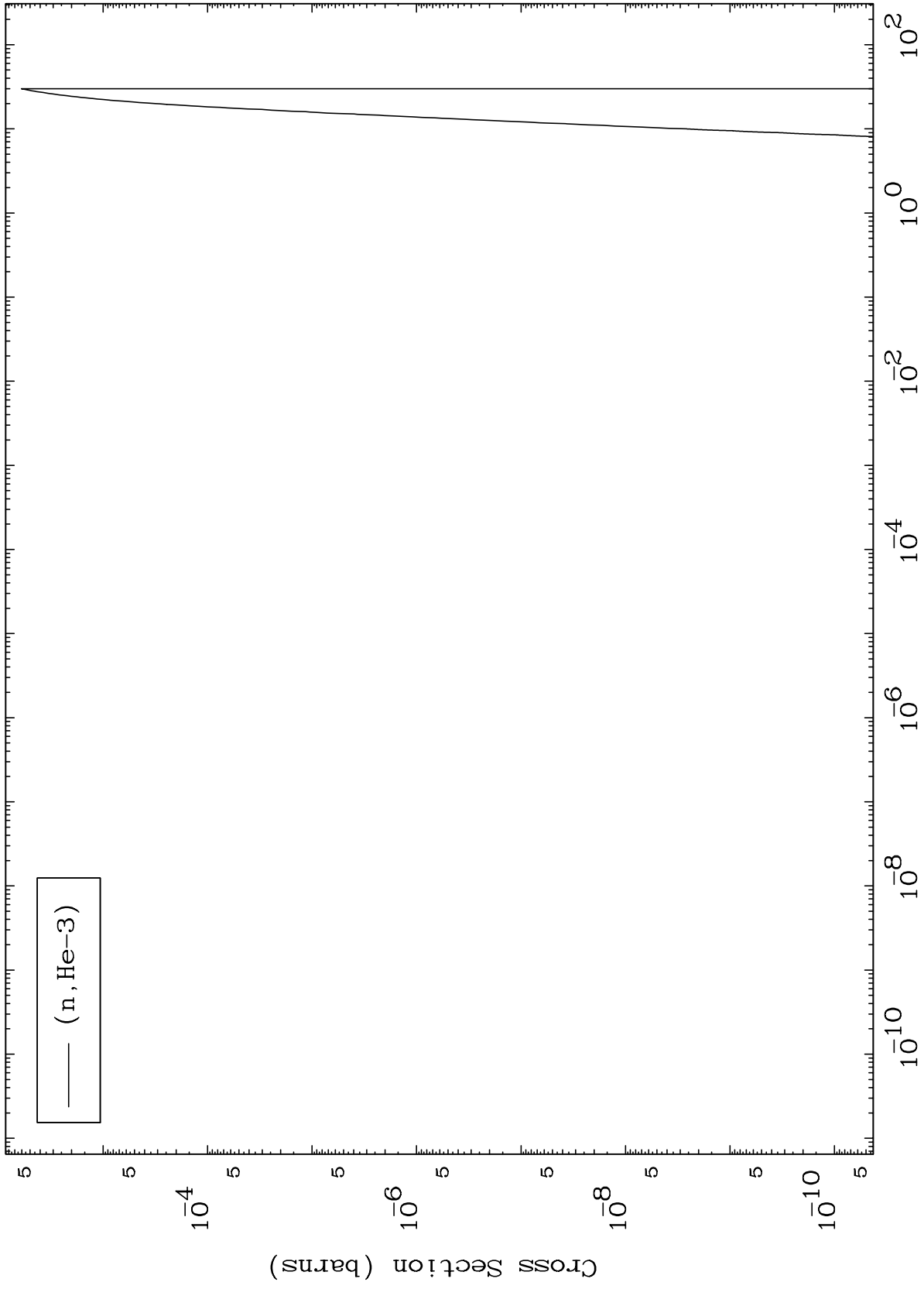
Incident Energy (MeV)

85-At-199

MAT 8513

(n,He3) Levels  
293 Kelvin Cross Sections

85-At-199



13

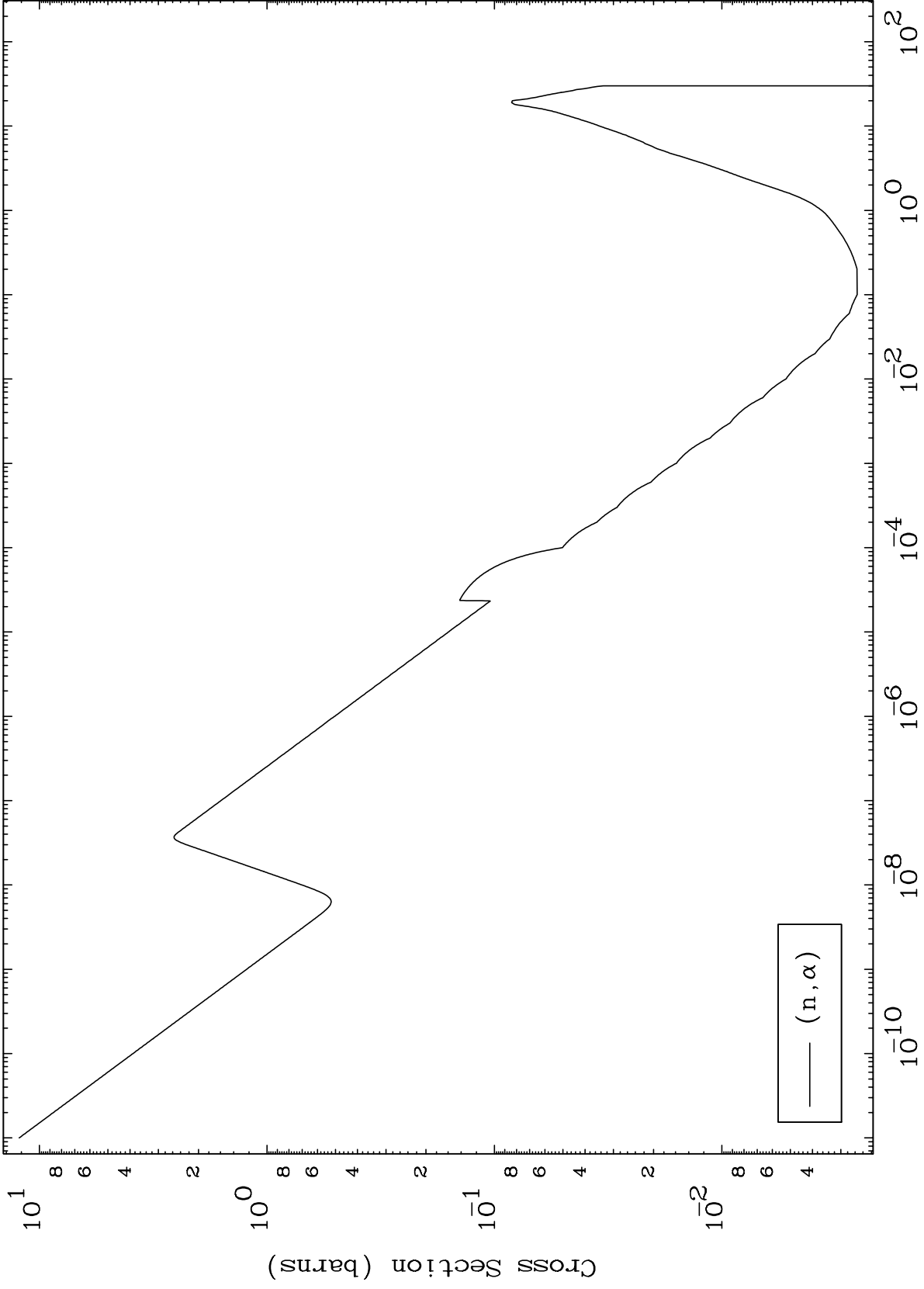
Incident Energy (MeV)

85-At-199

MAT 8513

(n,α) Levels  
293 Kelvin Cross Sections

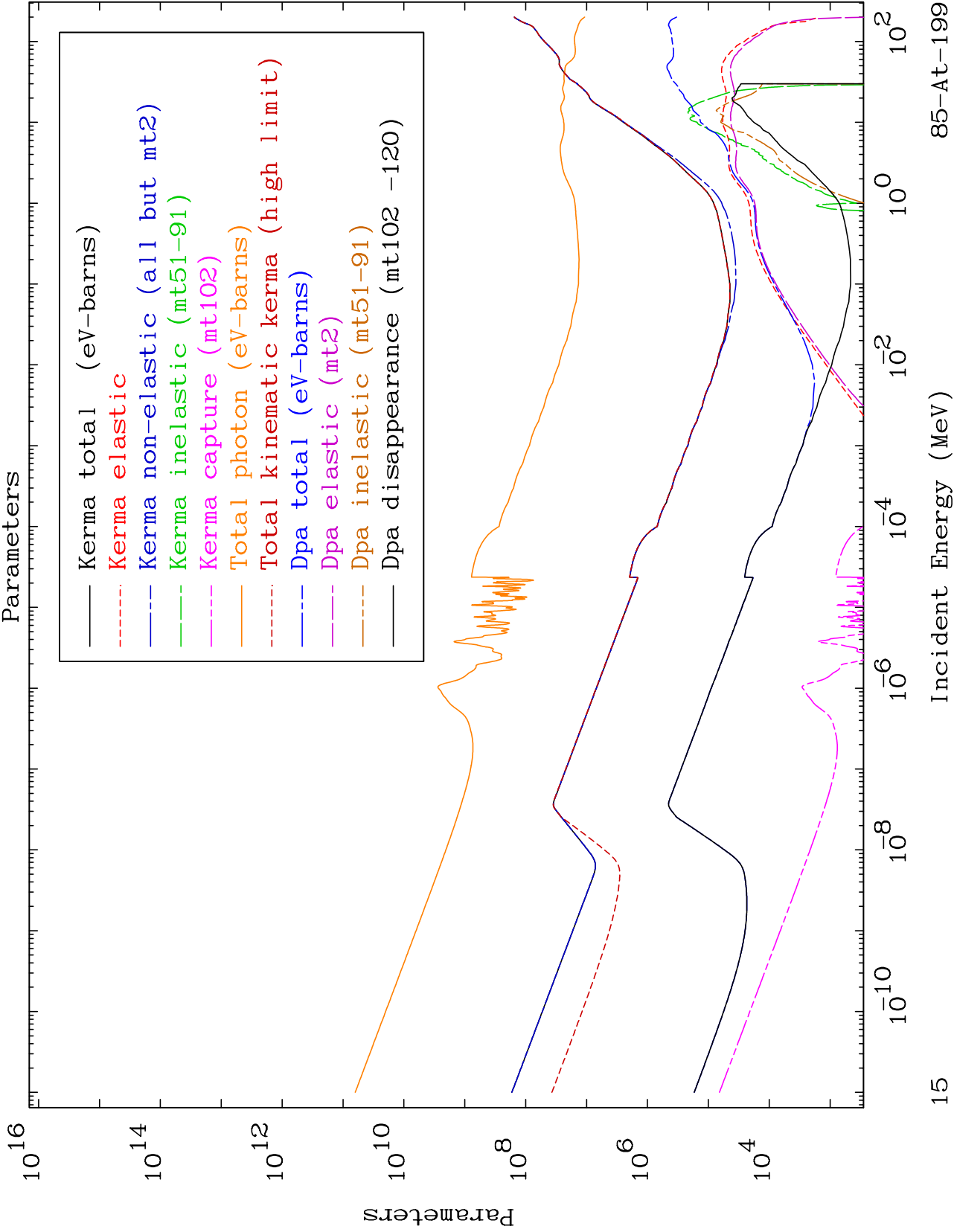
85-At-199



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Incident Energy (MeV)

85-At-199

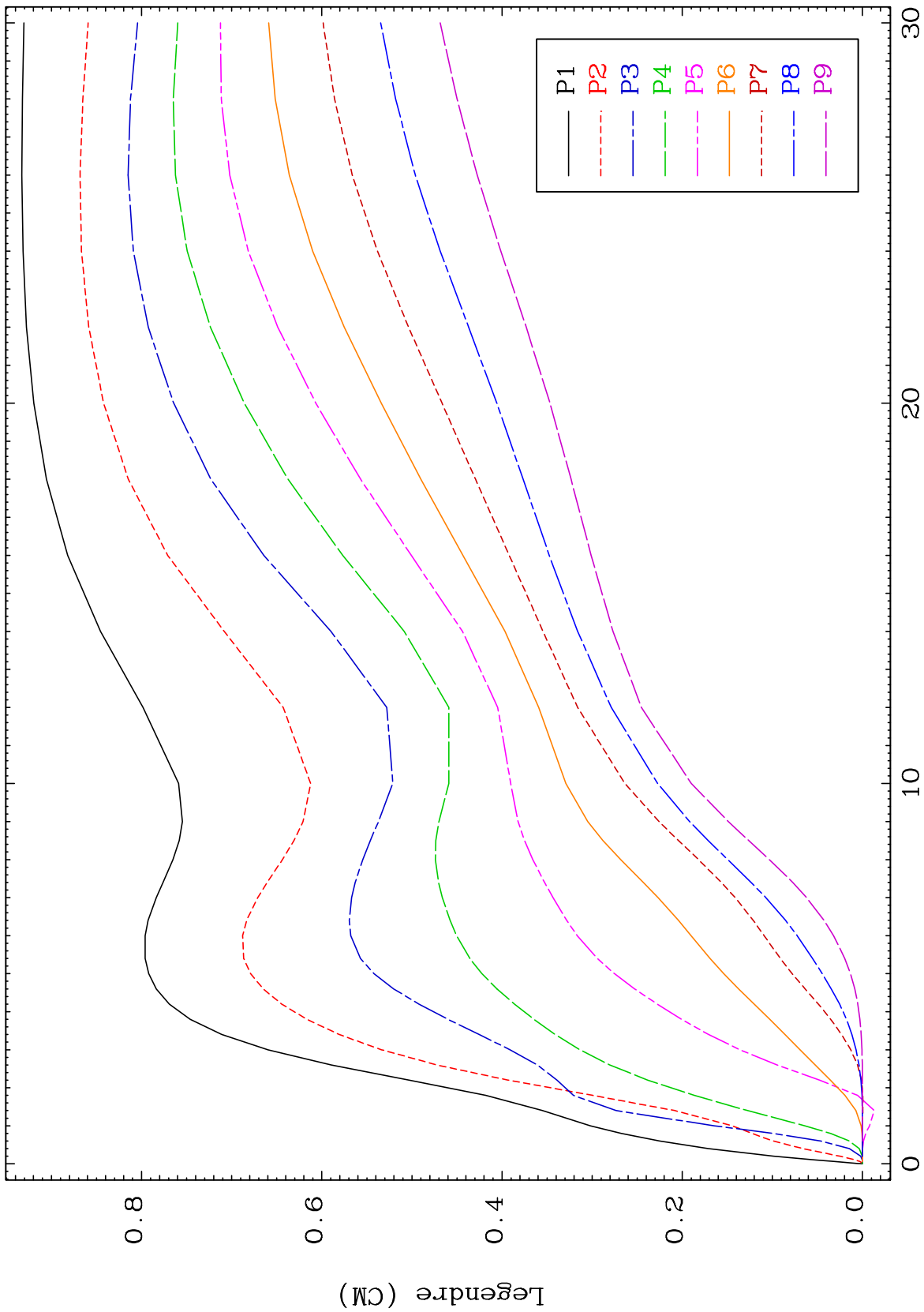




MAT 8513

85-At-199

Elastic Legendre Coefficients



85-At-199

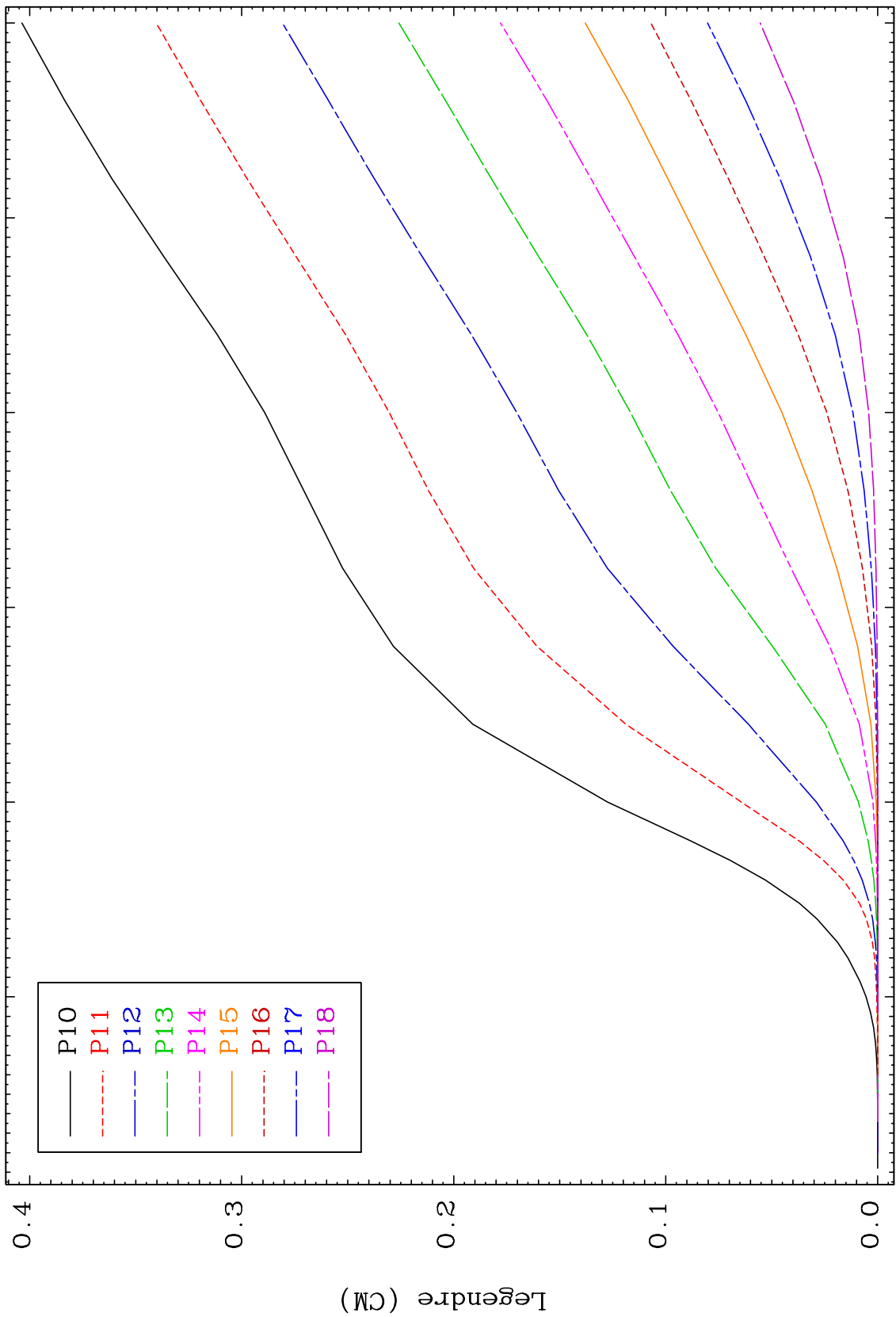
Incident Energy (MeV)

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MAT 8513

Elastic Legendre Coefficients

85-At-199



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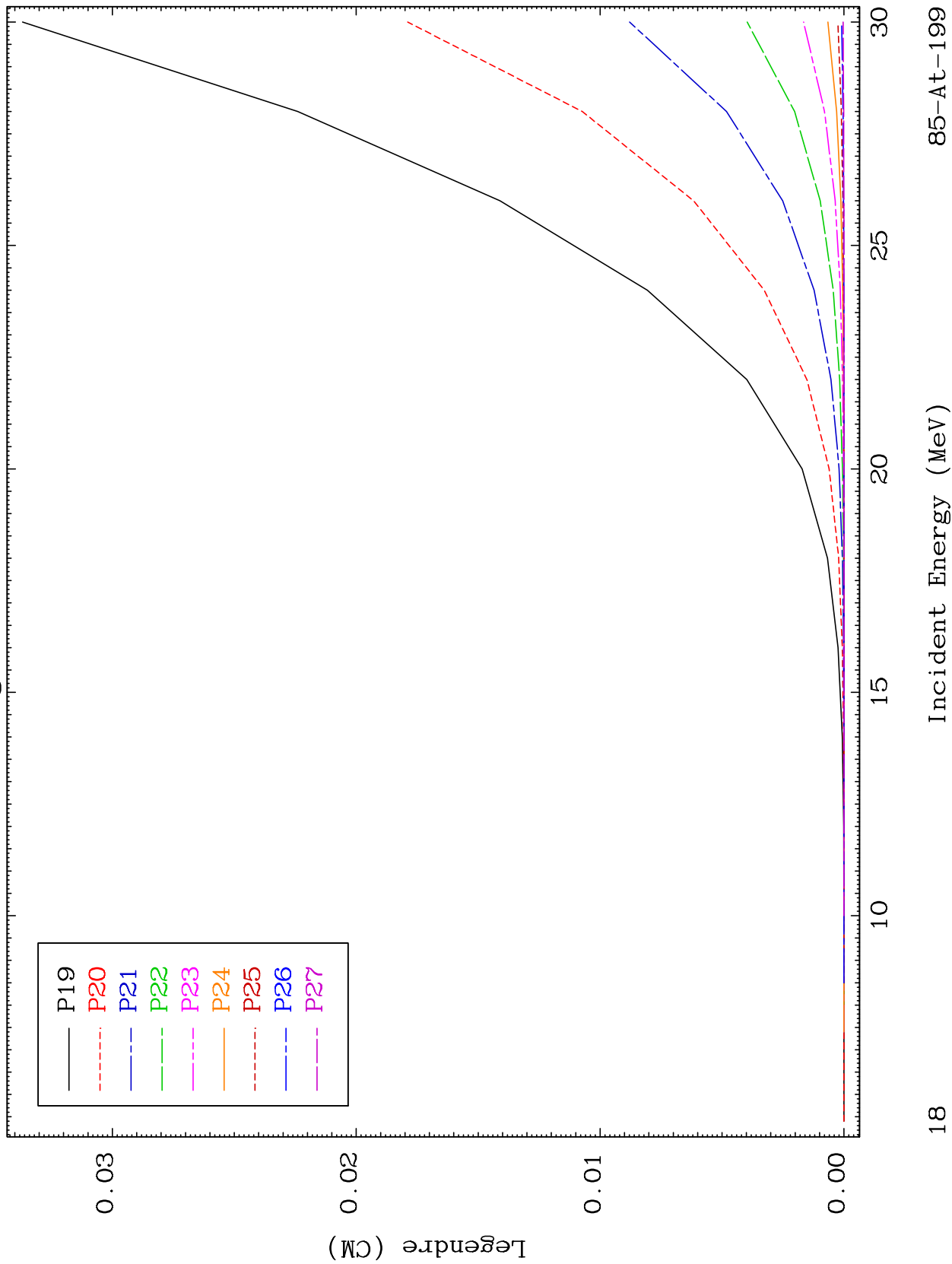
Incident Energy (MeV)

85-At-199

MAT 8513

### Elastic Legendre Coefficients

85-At-199



18

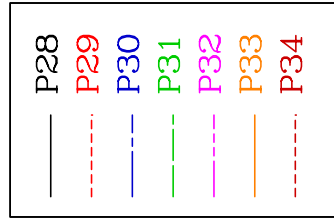
Incident Energy (MeV)

85-At-199

MAT 8513

Elastic Legendre Coefficients

85-At-199



$\times 10^{-5}$   
1.0  
0.8

Legendre (CM)

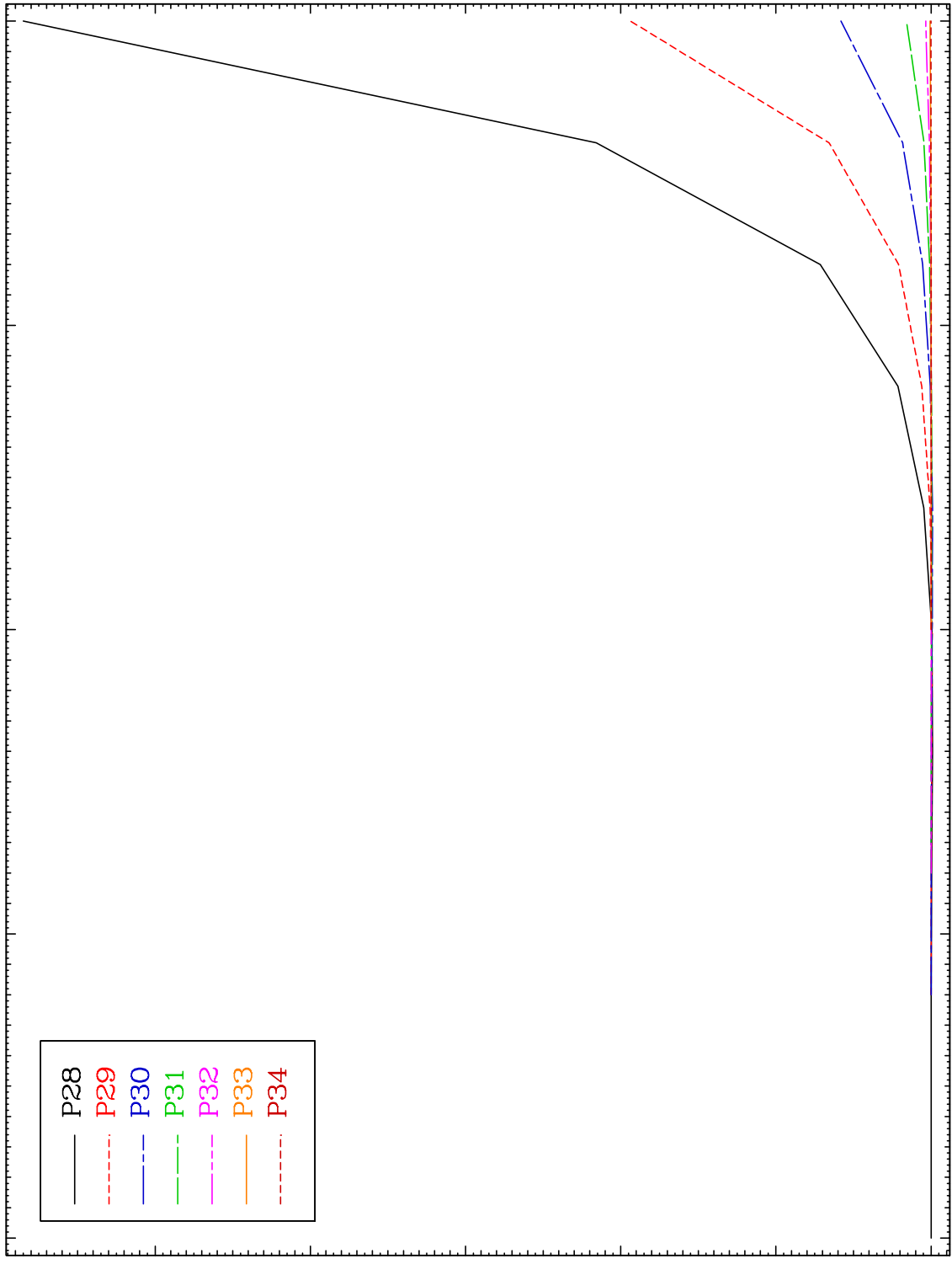
0.6  
0.4  
0.2  
0.0

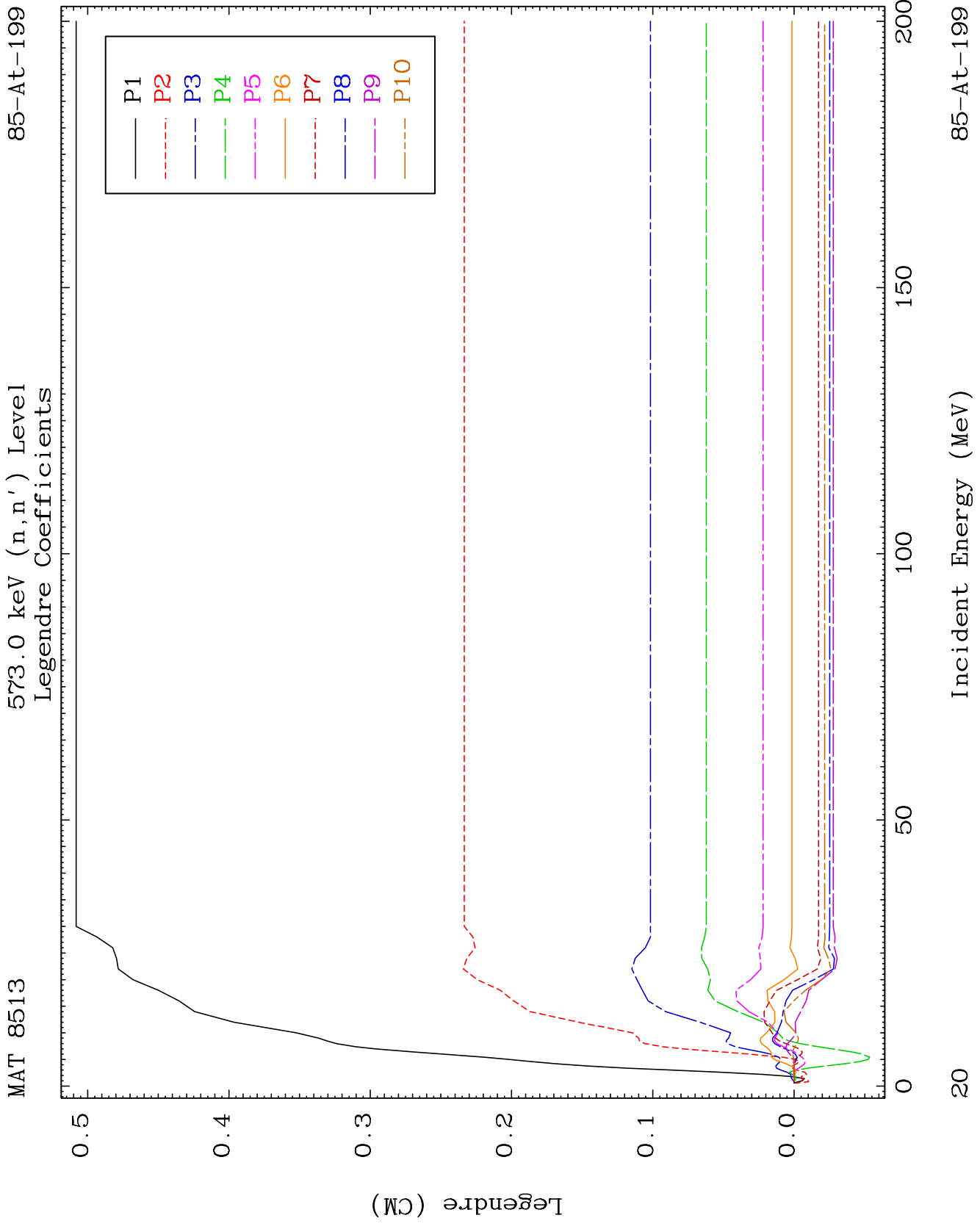
10 15 20 25 30

19

Incident Energy (MeV)

85-At-199

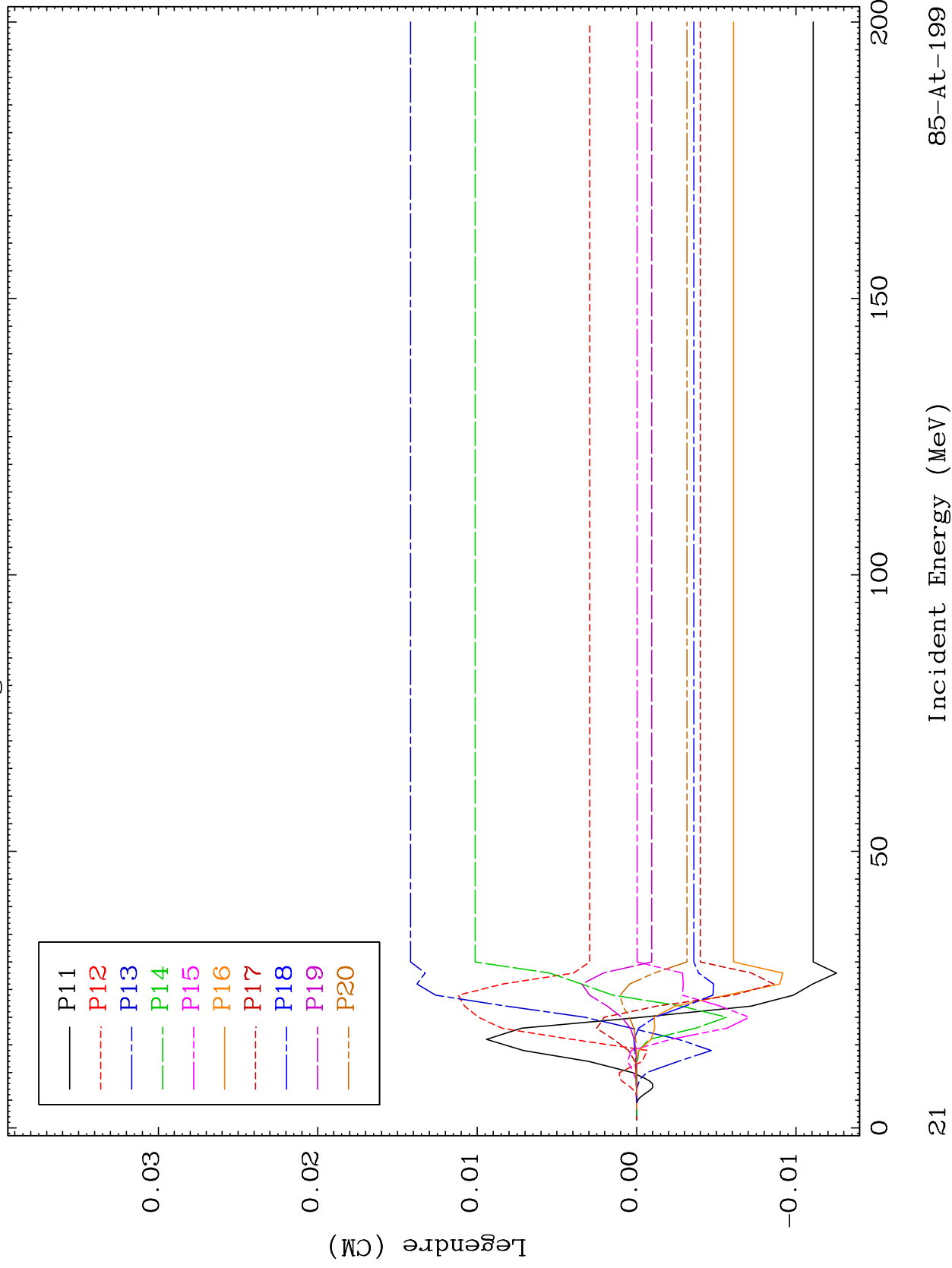




MAT 8513

573.0 keV (n,n') Level  
Legendre Coefficients

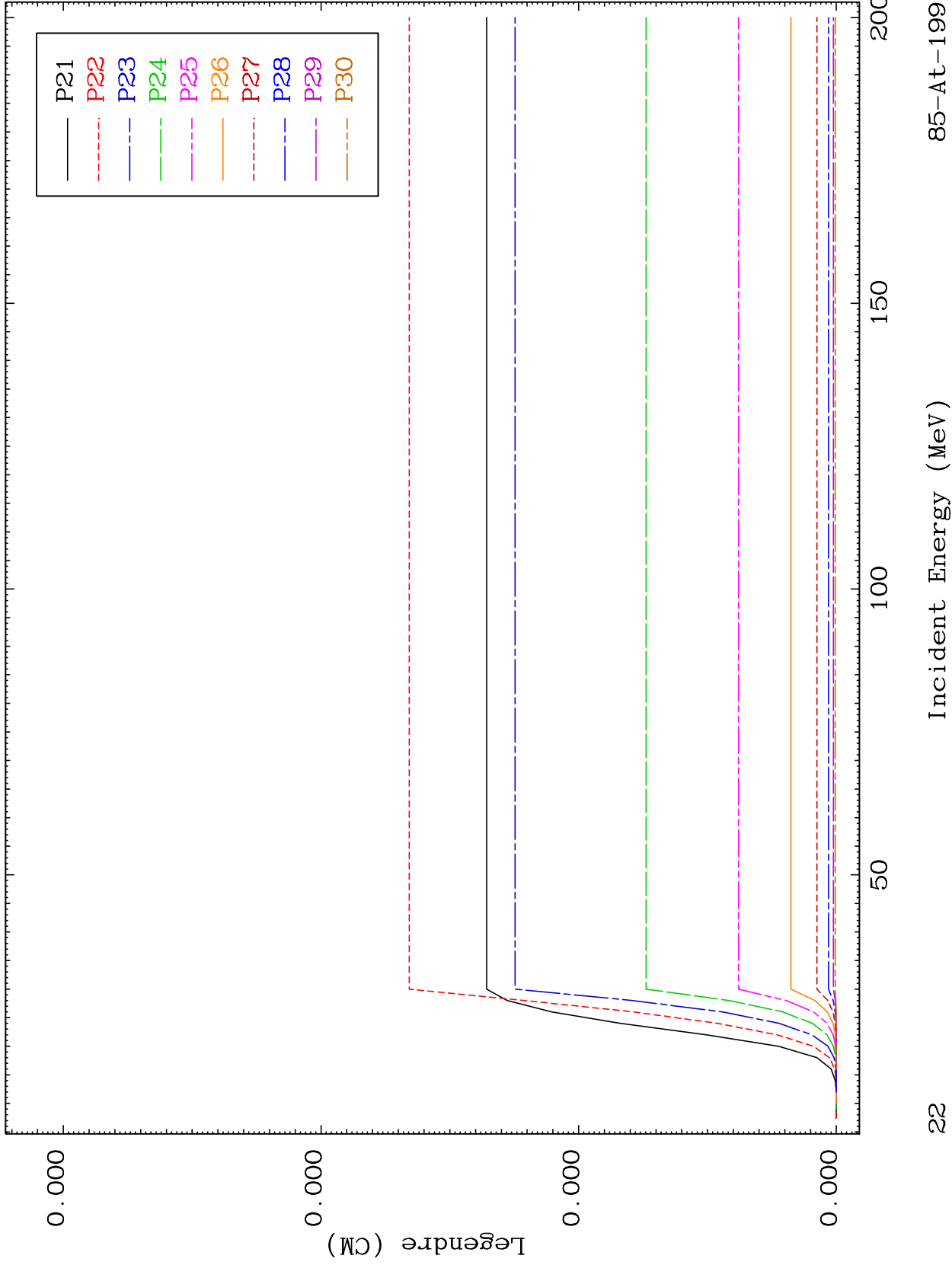
85-At-199

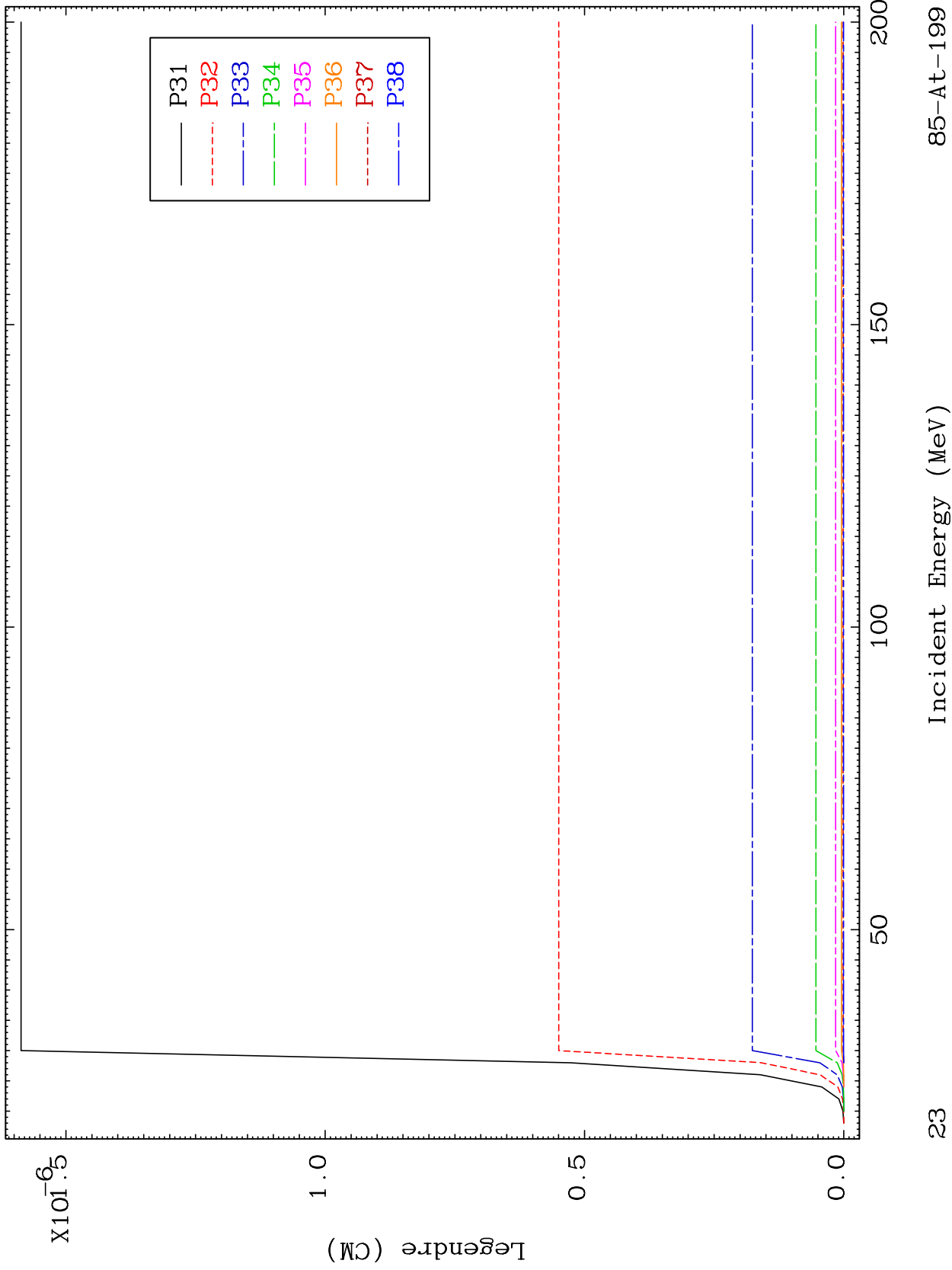


MAT 8513

573.0 keV (n,n') Level  
Legendre Coefficients

85-At-199



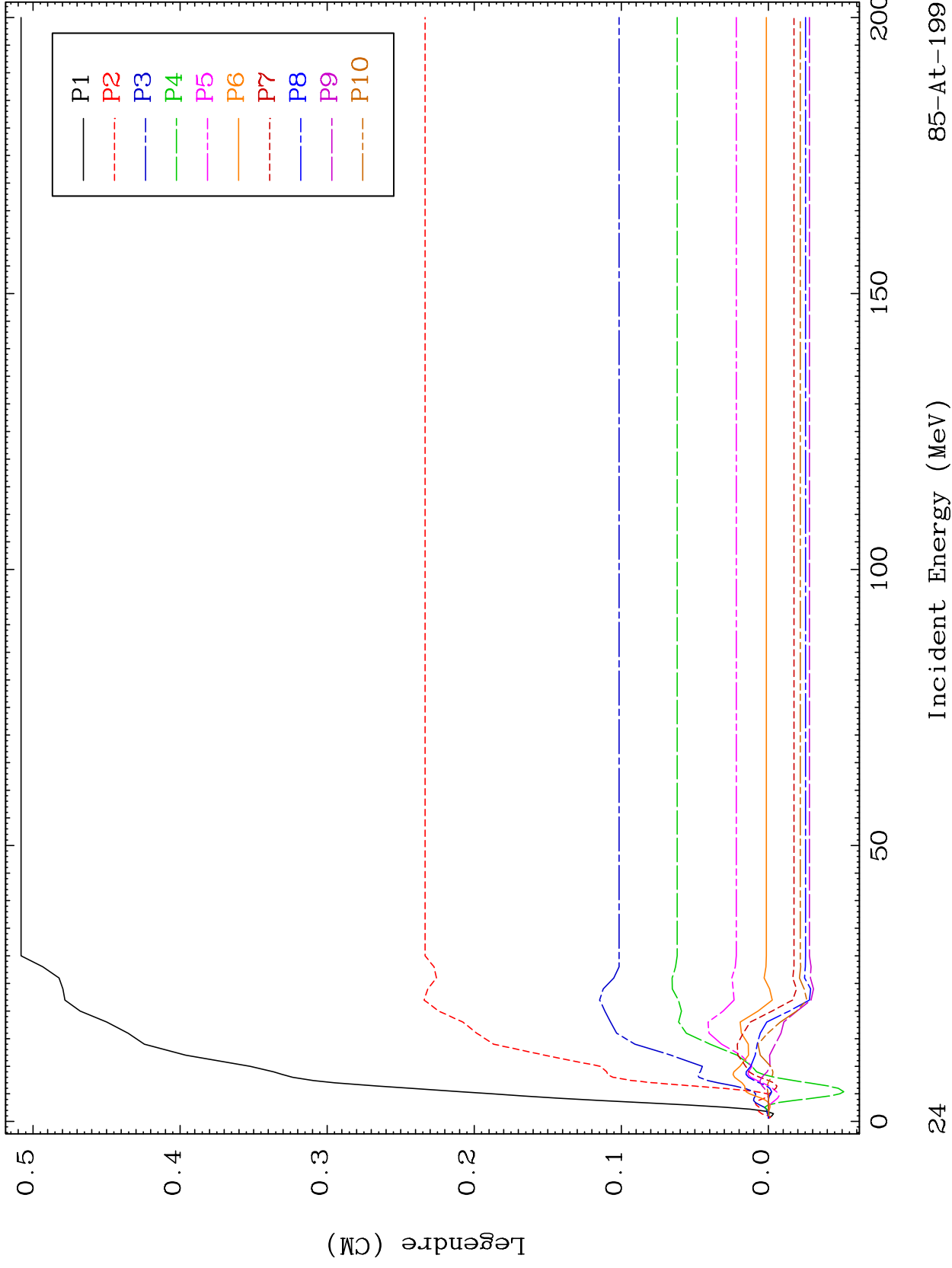




MAT 8513

583.4 keV (n,n') Level  
Legendre Coefficients

85-At-199



24

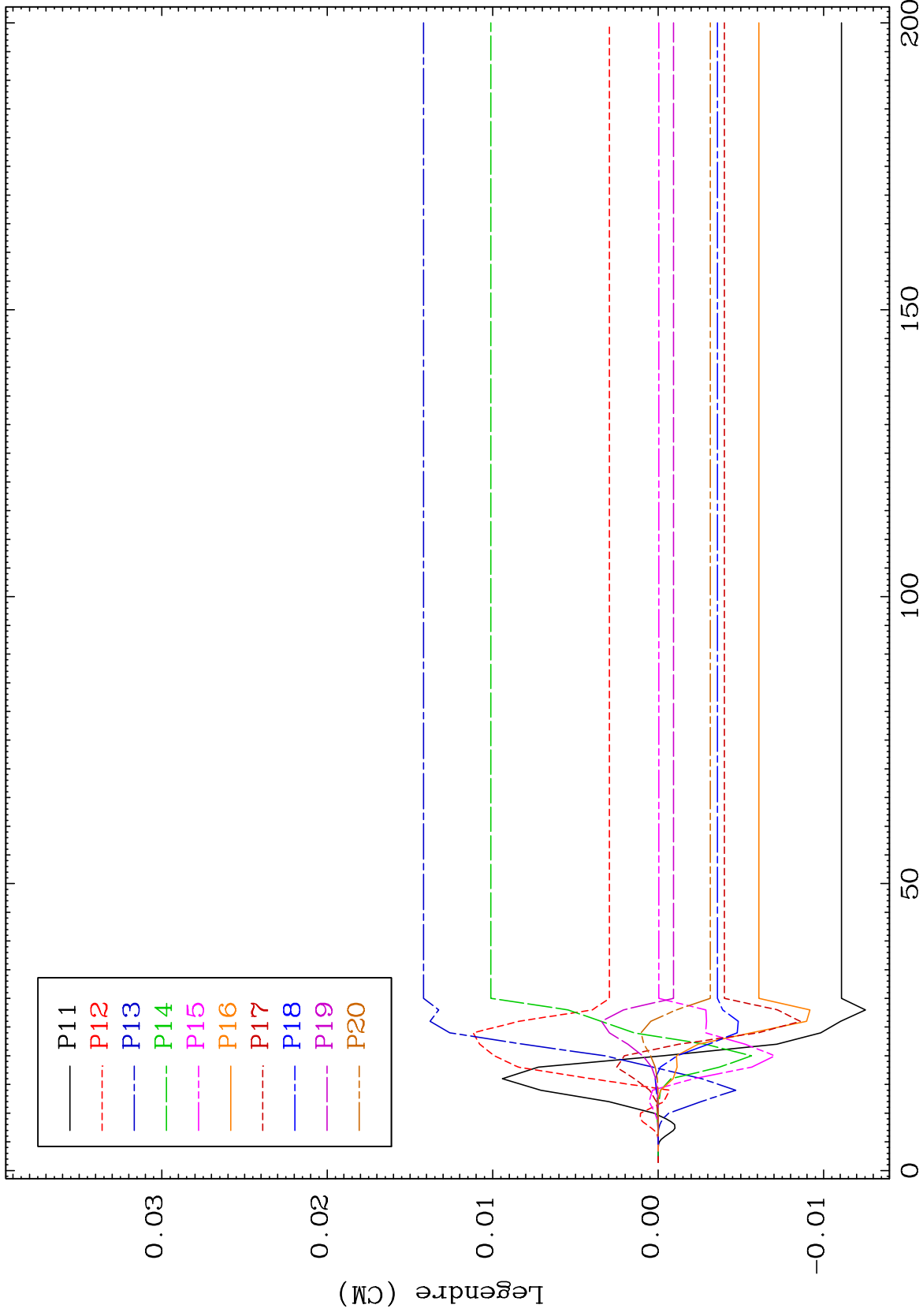
Incident Energy (MeV)

85-At-199

MAT 8513

583.4 keV (n,n') Level  
Legendre Coefficients

85-At-199



25

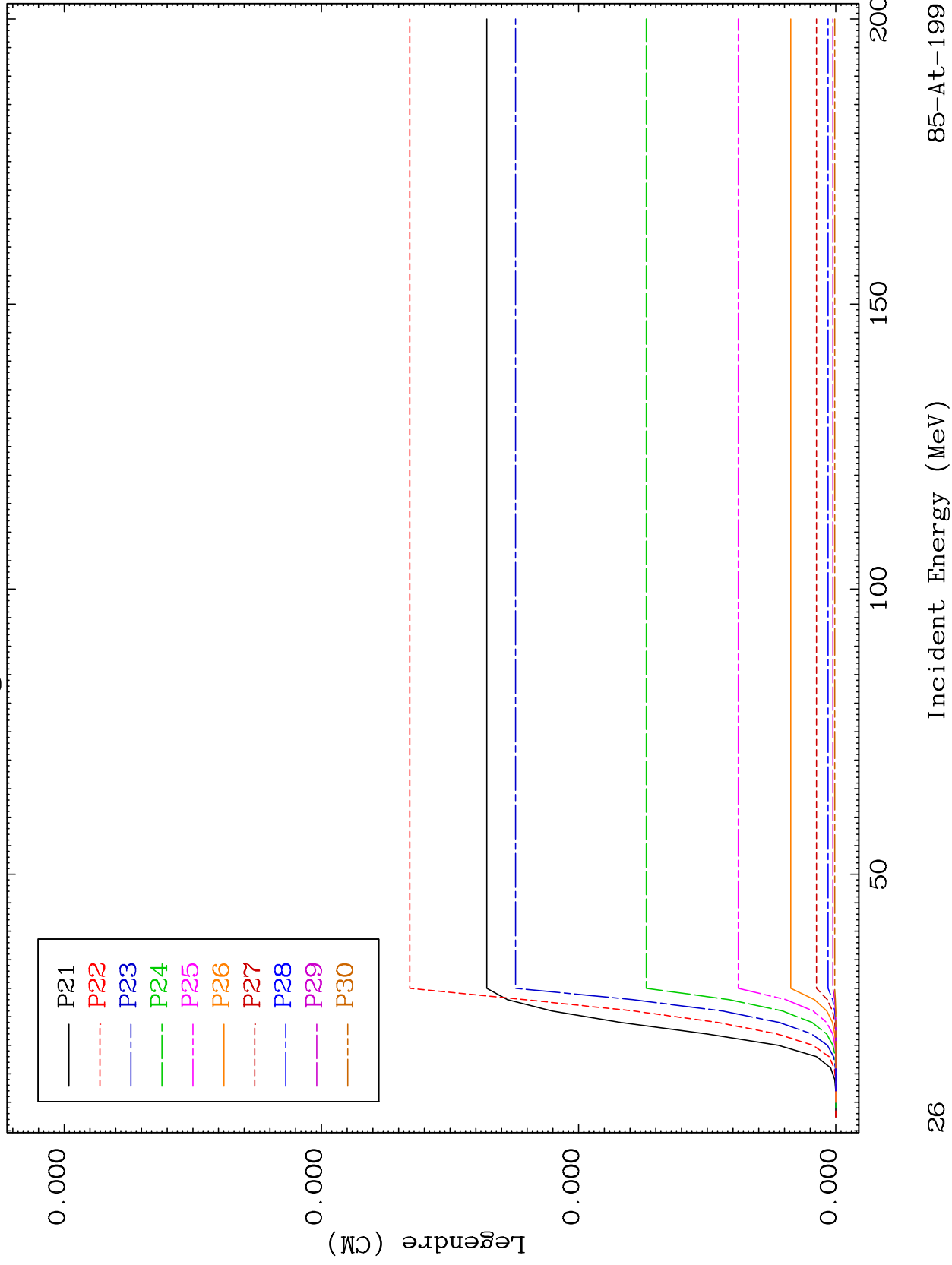
Incident Energy (MeV)

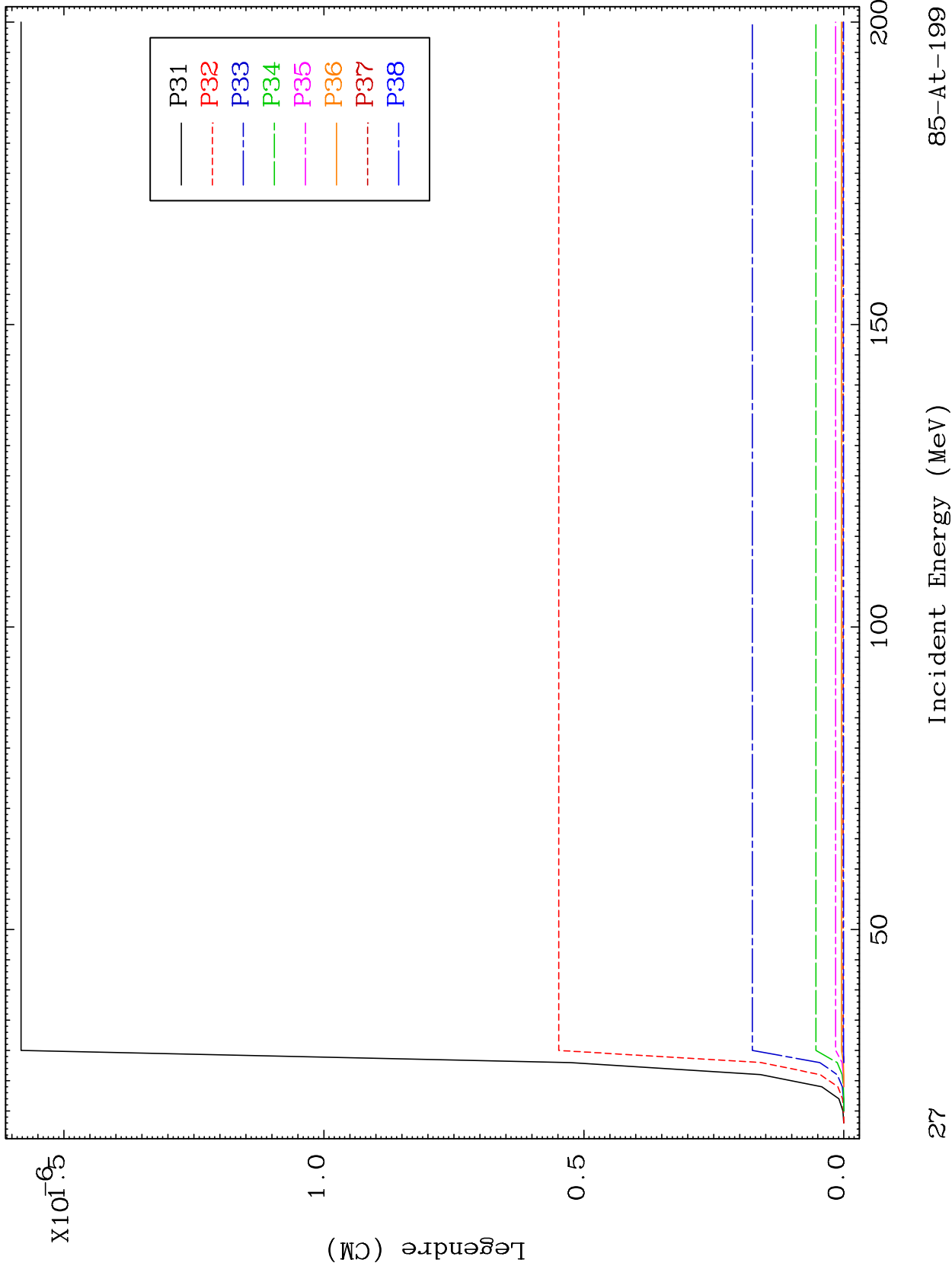
85-At-199

MAT 8513

583.4 keV (n,n') Level  
Legendre Coefficients

85-At-199

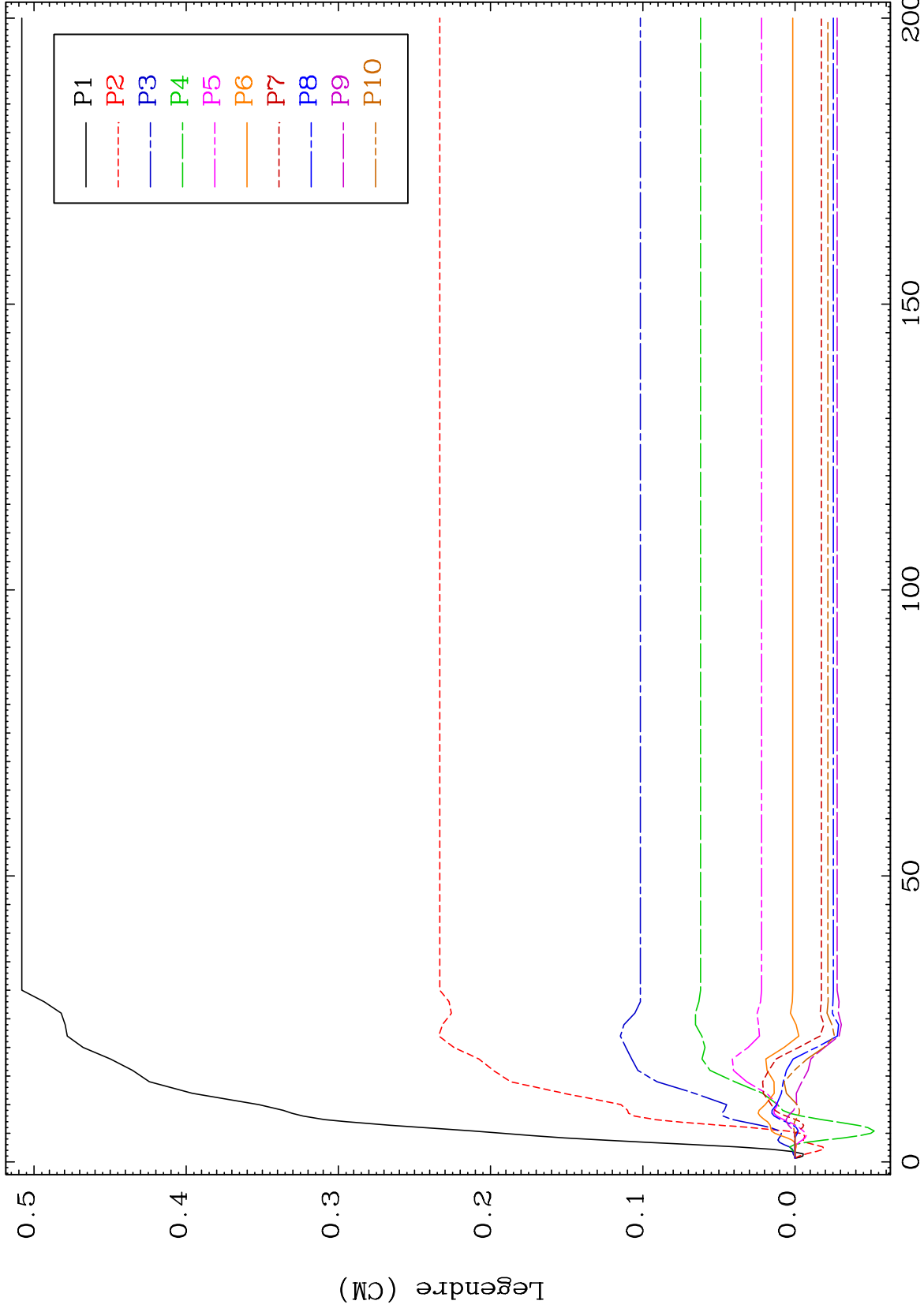




MAT 8513

598.0 keV (n,n') Level  
Legendre Coefficients

85-At-199



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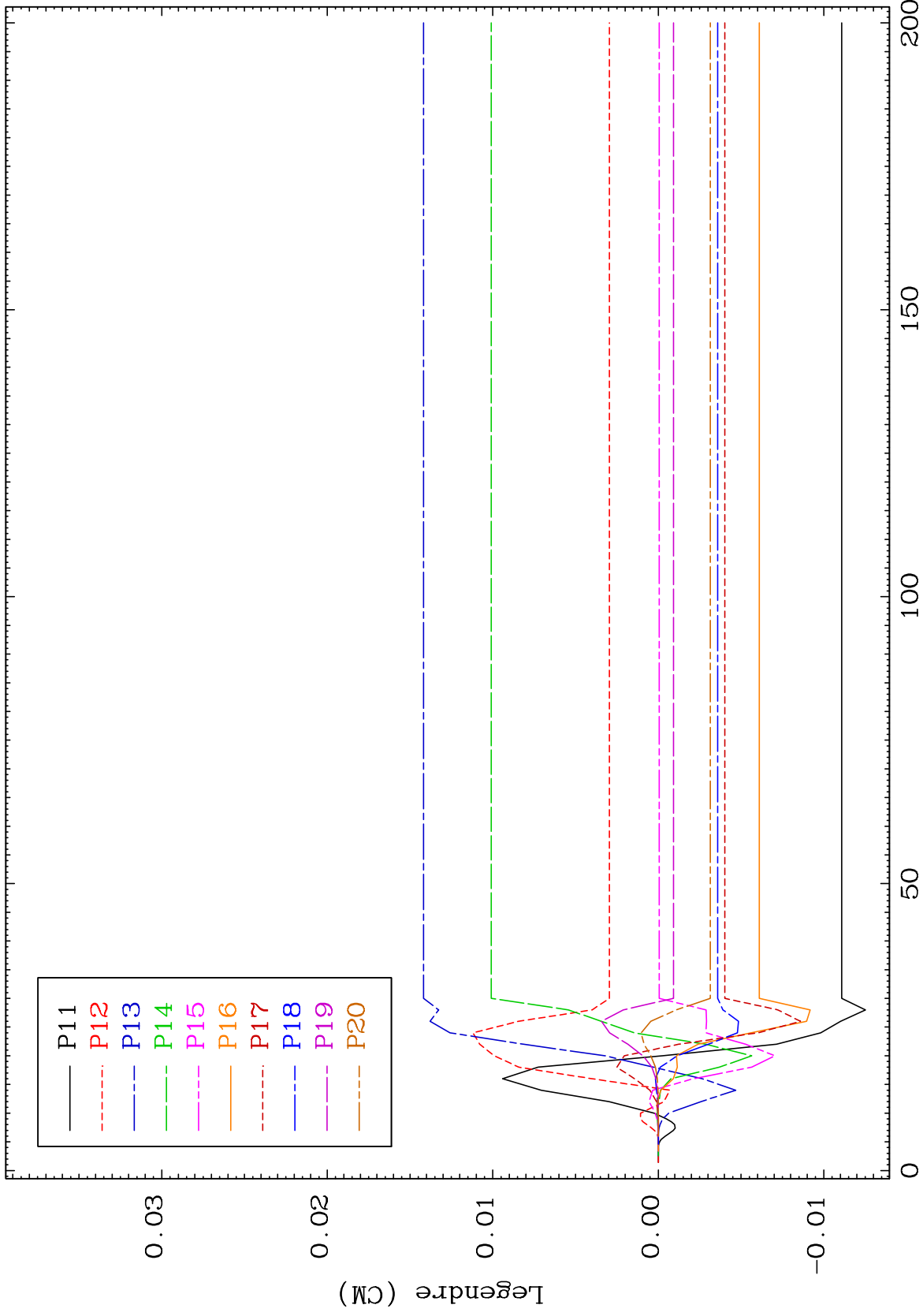
Incident Energy (MeV)

85-At-199

MAT 8513

598.0 keV (n,n') Level  
Legendre Coefficients

85-At-199



29

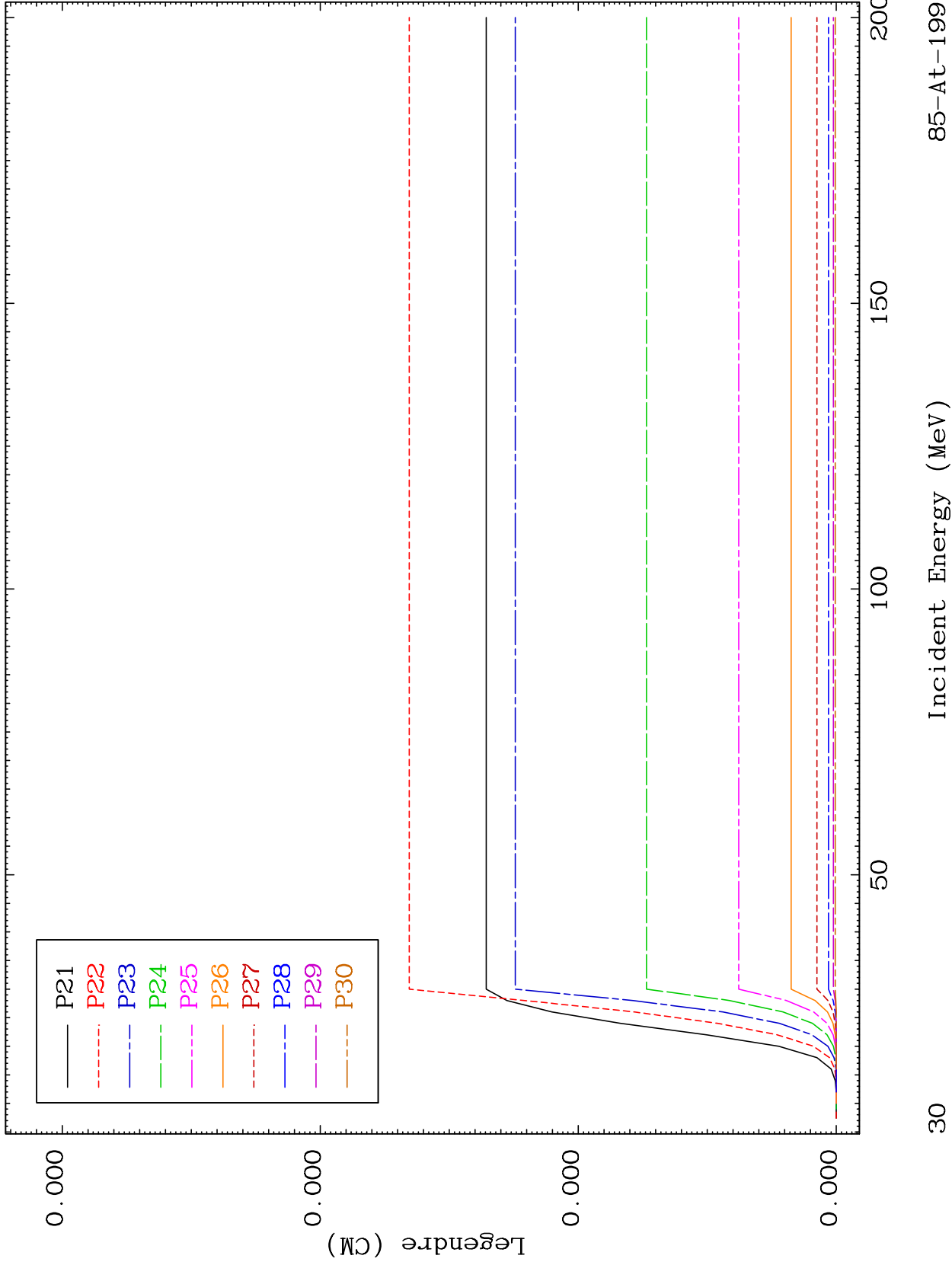
Incident Energy (MeV)

85-At-199

MAT 8513

598.0 keV (n,n') Level  
Legendre Coefficients

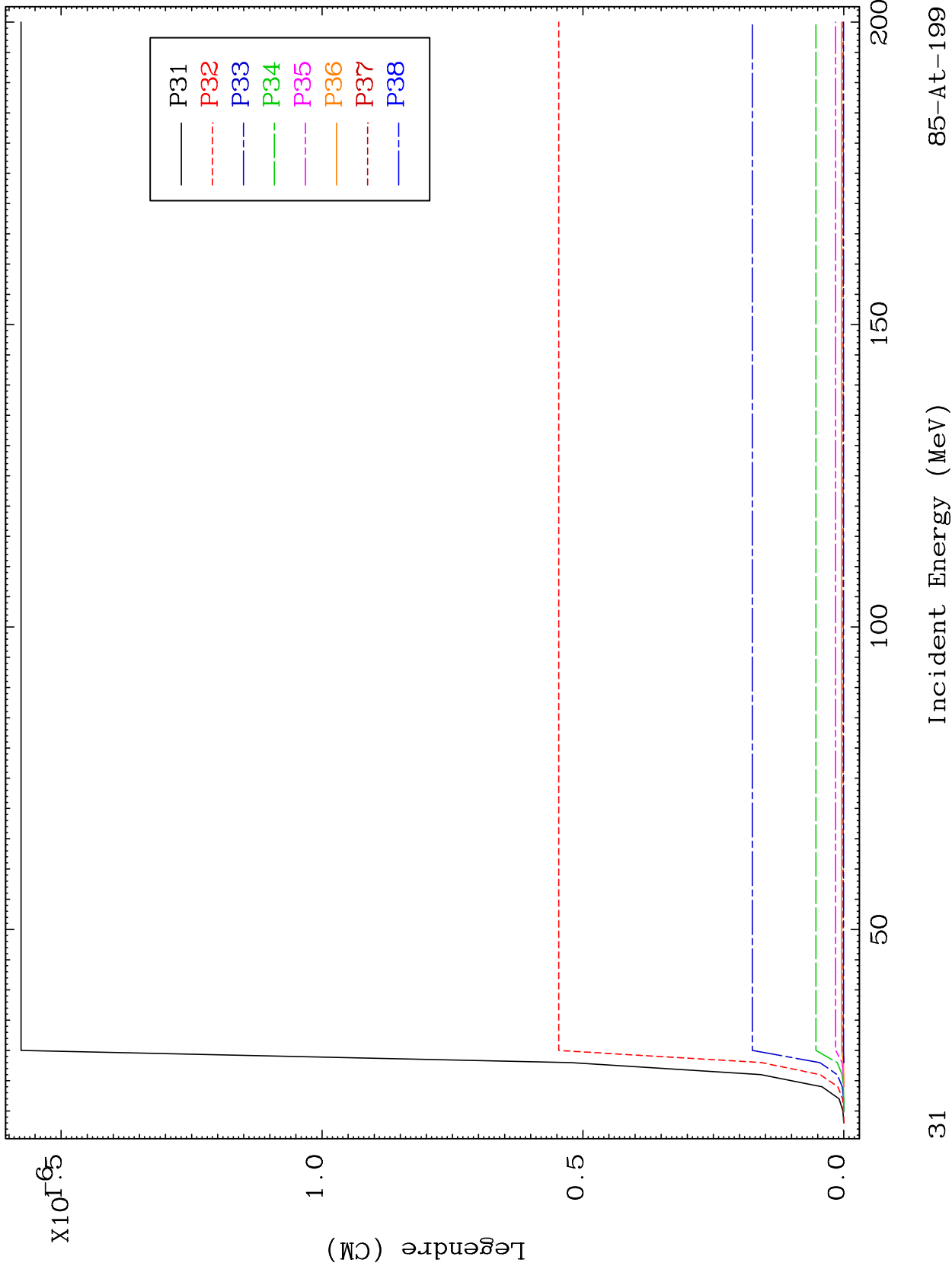
85-At-199



85-At-199

Incident Energy (MeV)

30

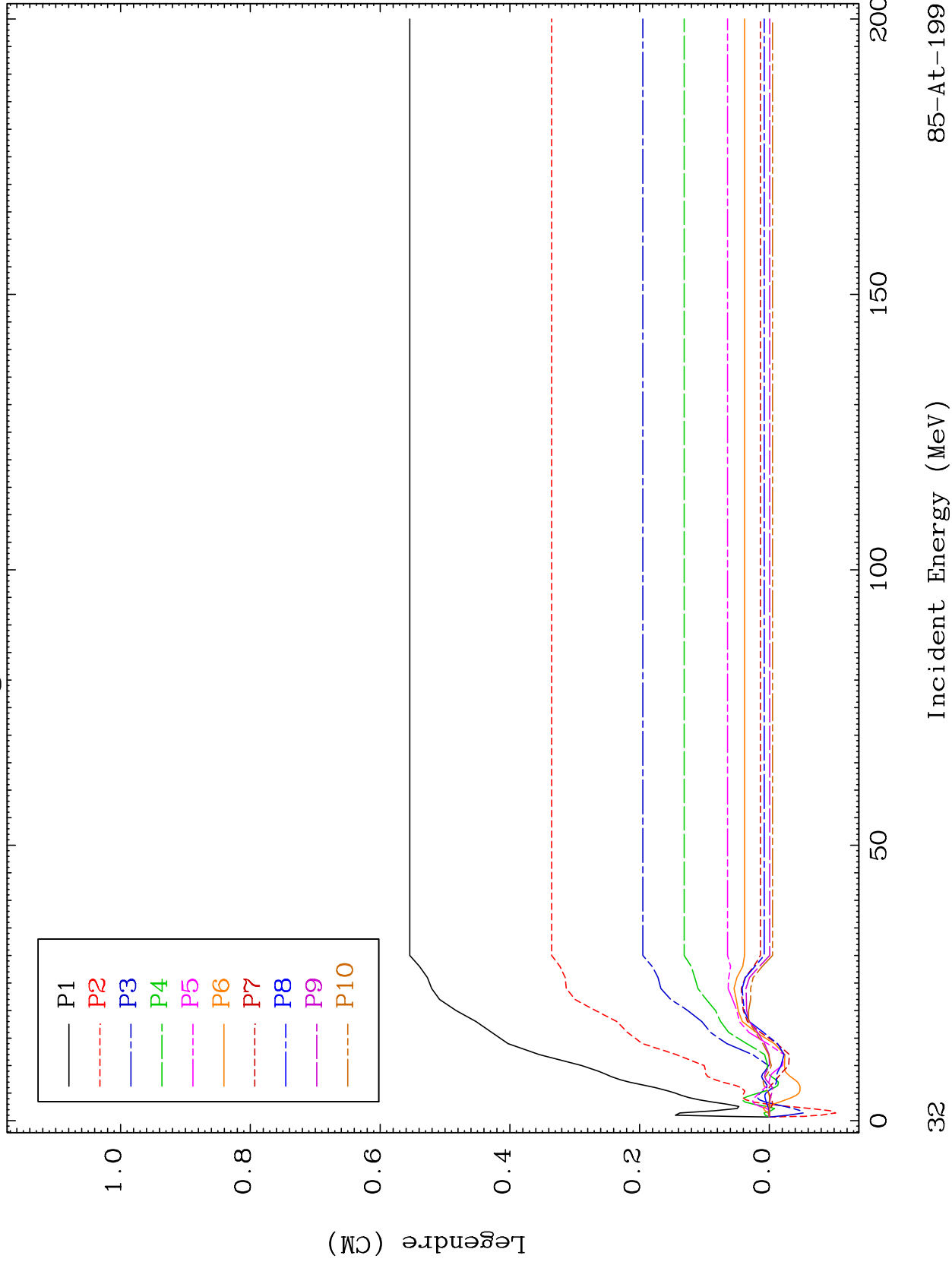




MAT 8513

657.4 keV (n,n') Level  
Legendre Coefficients

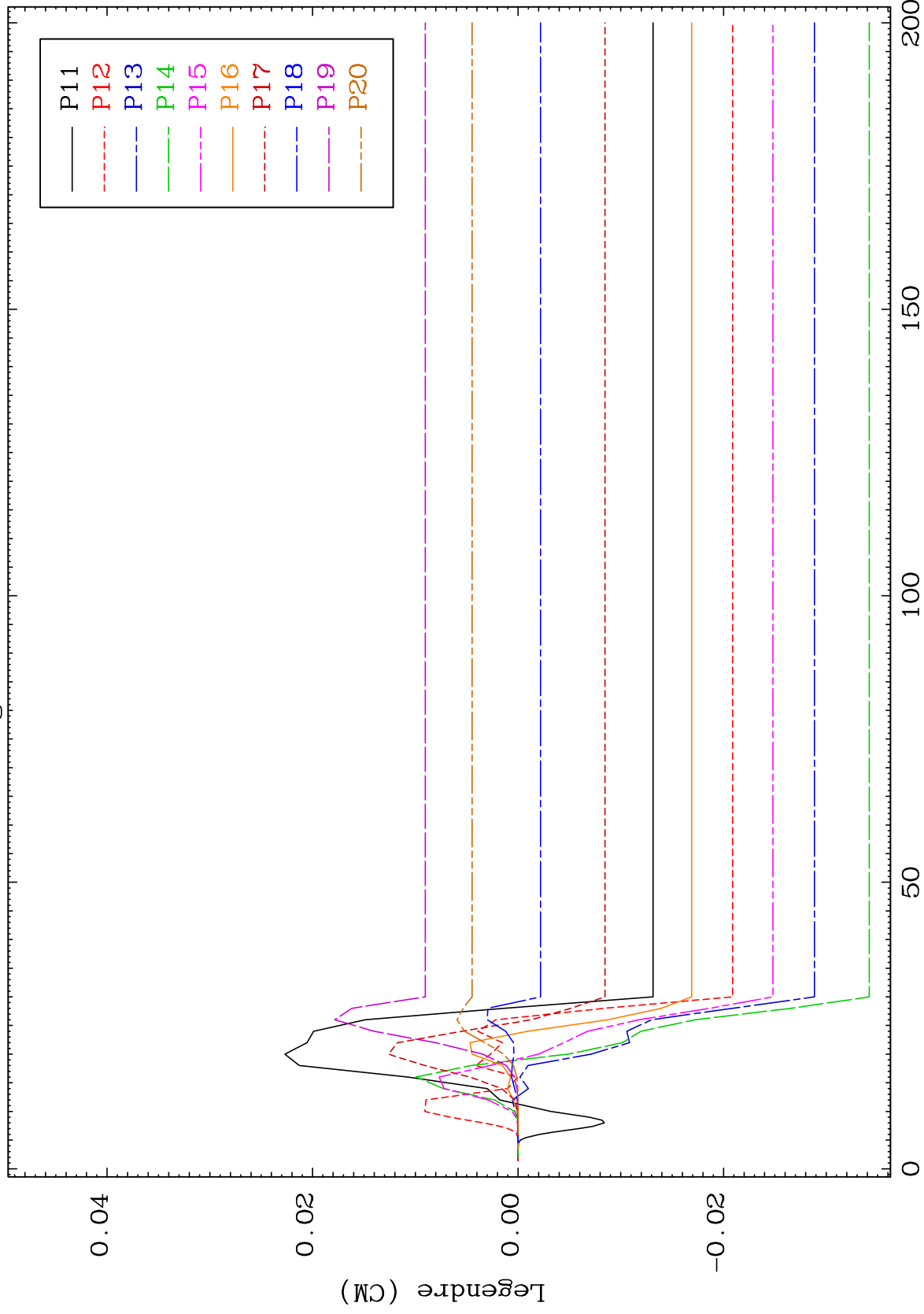
85-At-199



MAT 8513

657.4 keV (n,n') Level  
Legendre Coefficients

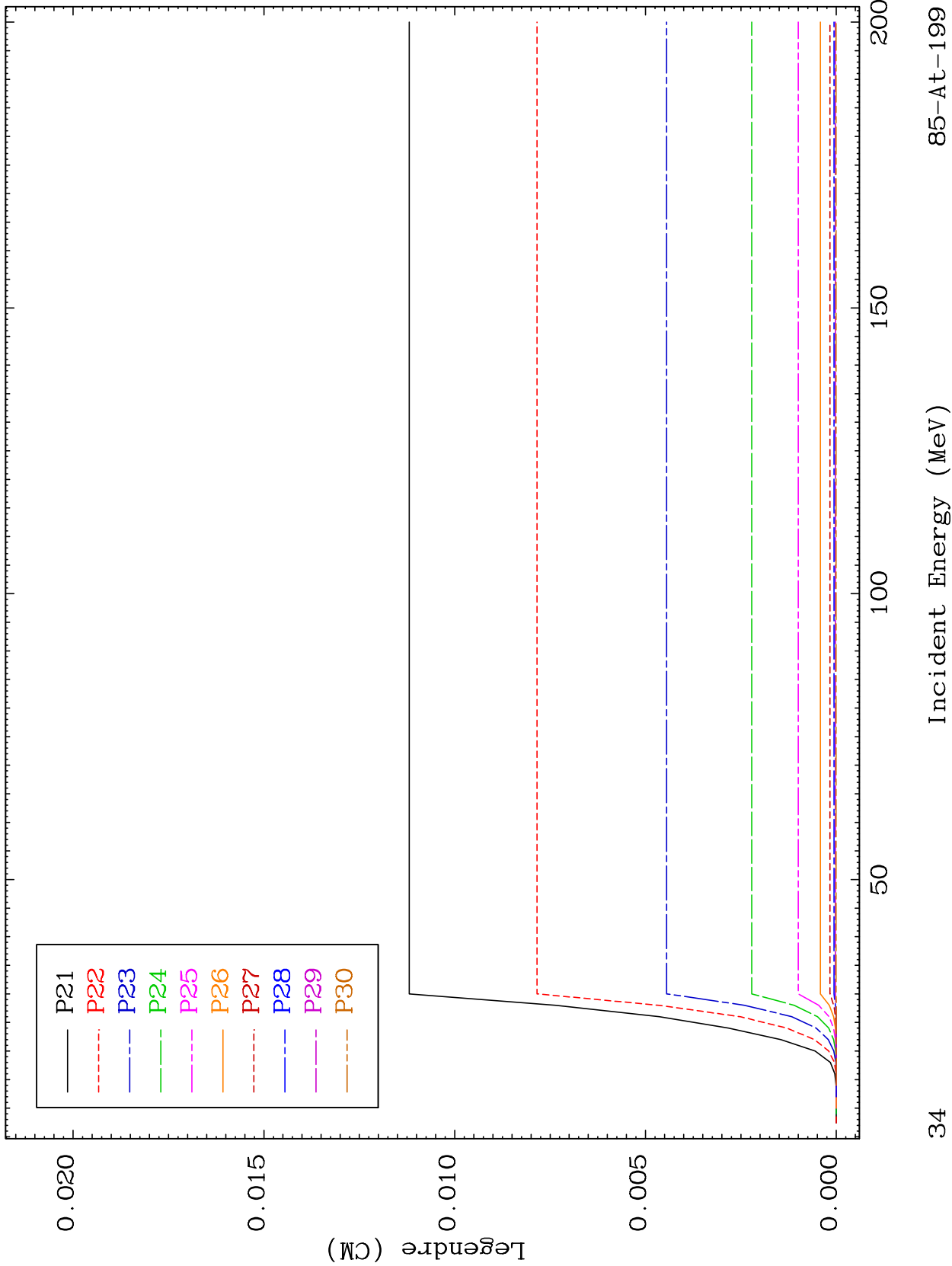
85-At-199



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Incident Energy (MeV)

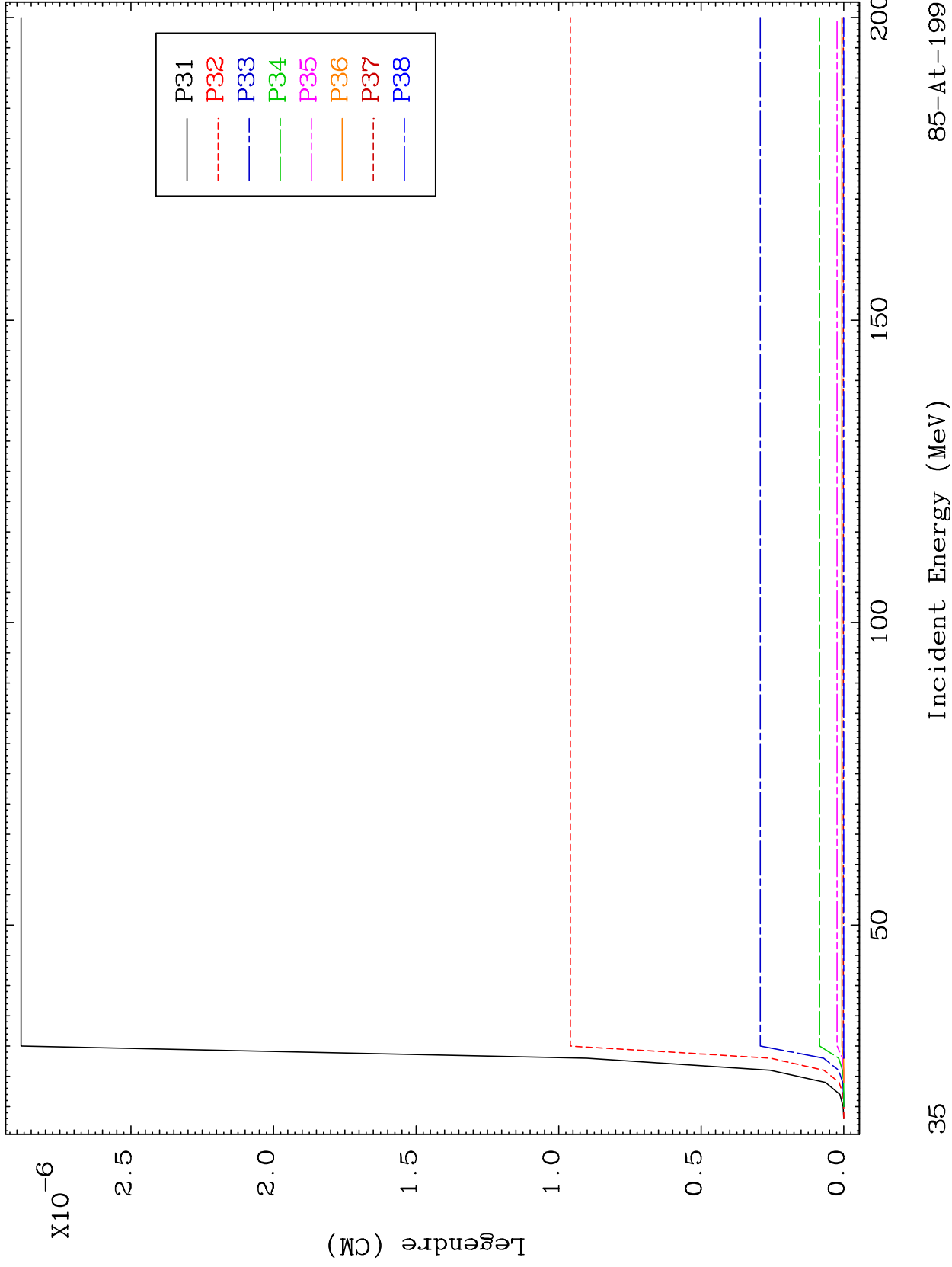
85-At-199



MAT 8513

657.4 keV (n,n') Level  
Legendre Coefficients

85-At-199



35

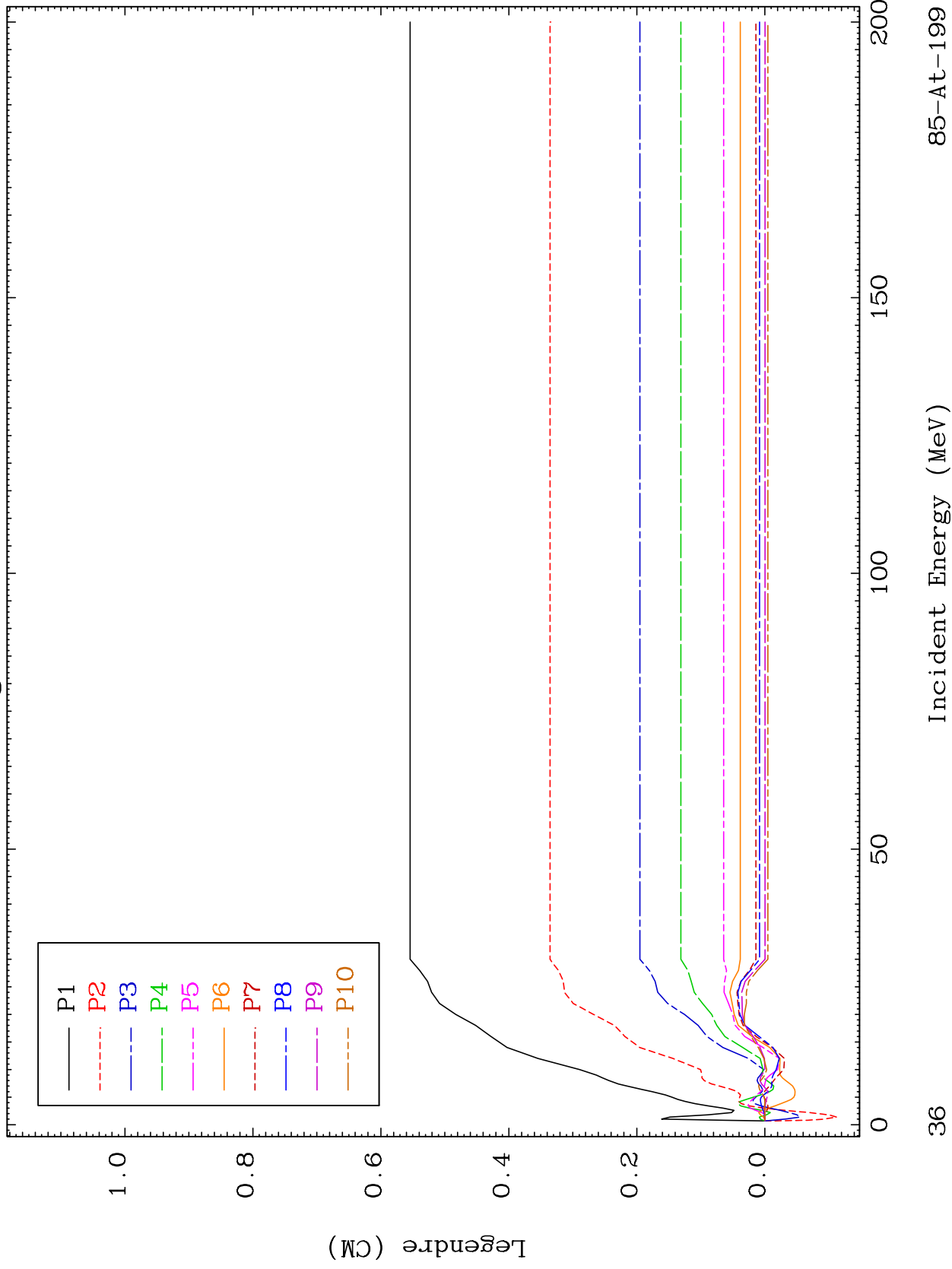
Incident Energy (MeV)

85-At-199

MAT 8513

671.1 keV (n,n') Level  
Legendre Coefficients

85-At-199



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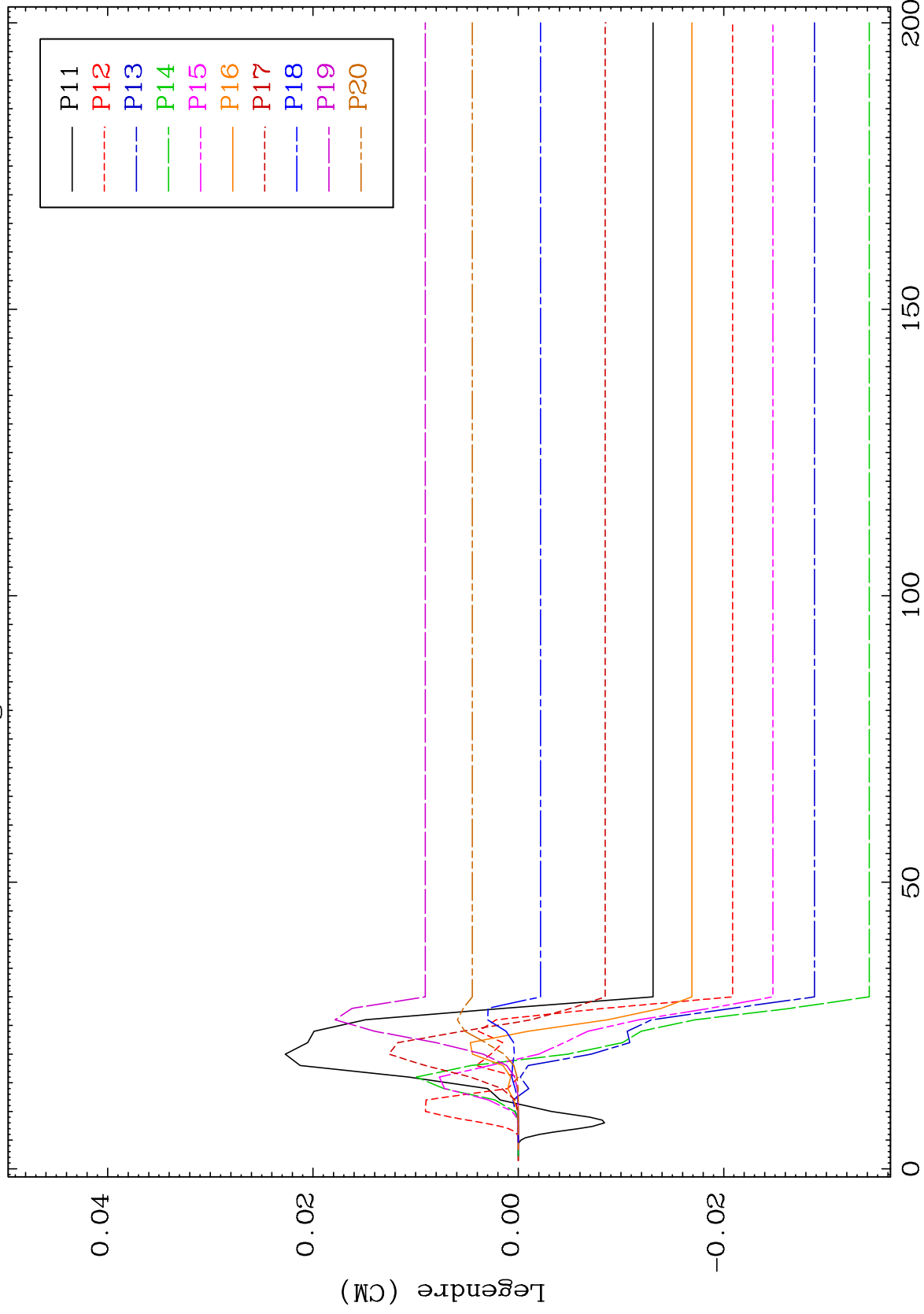
Incident Energy (MeV)

85-At-199

MAT 8513

671.1 keV (n,n') Level  
Legendre Coefficients

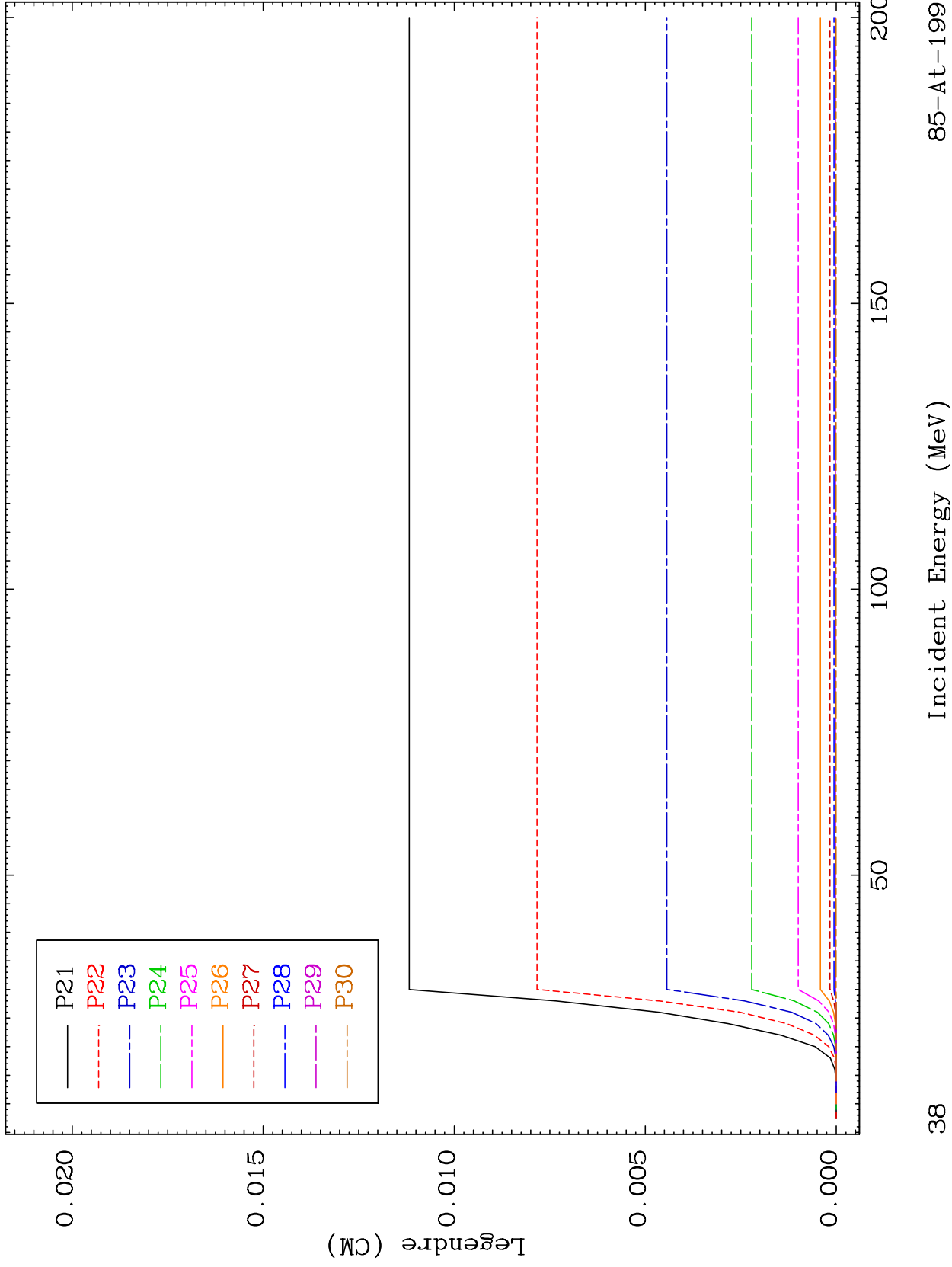
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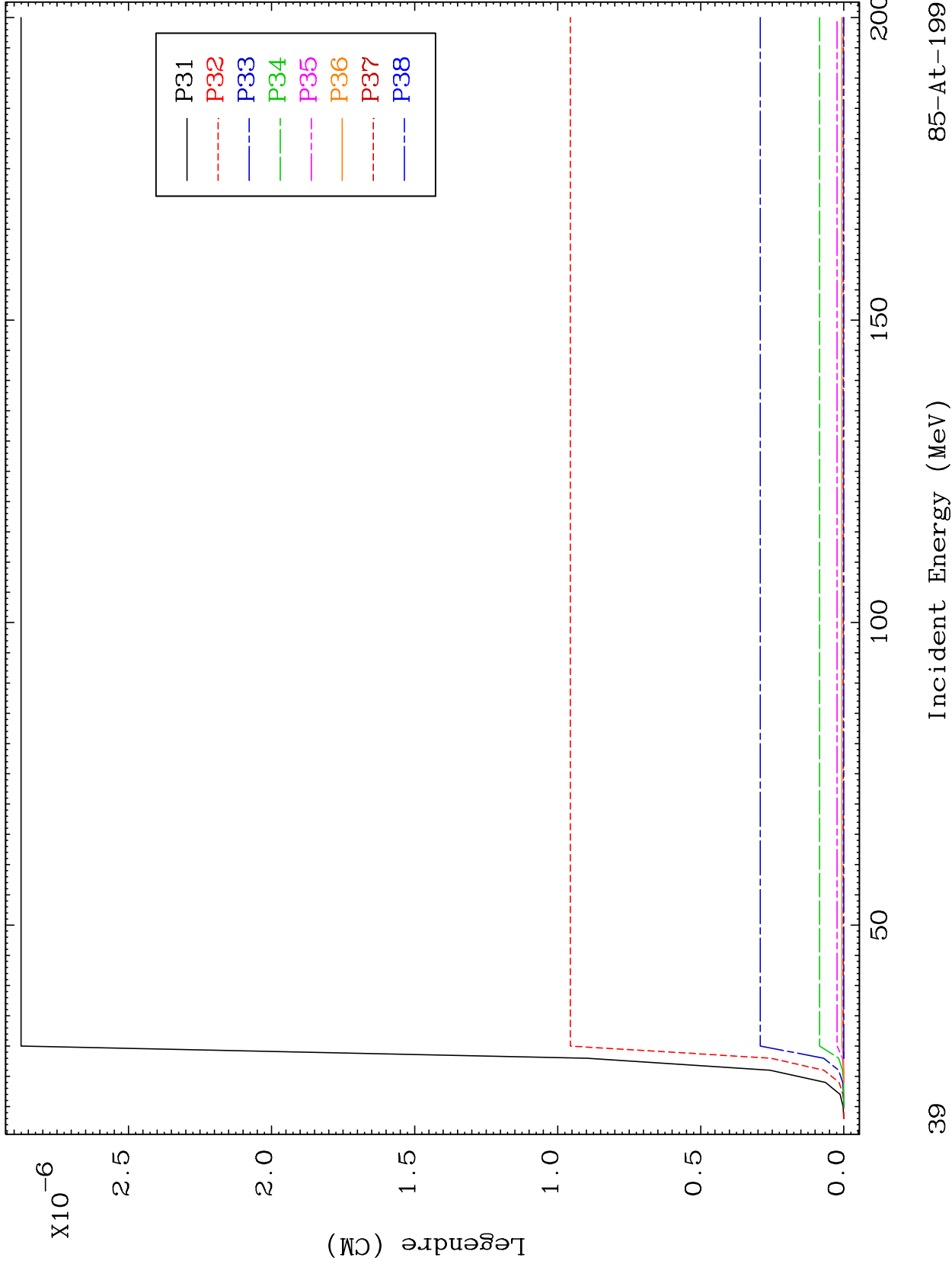


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Incident Energy (MeV)

85-At-199



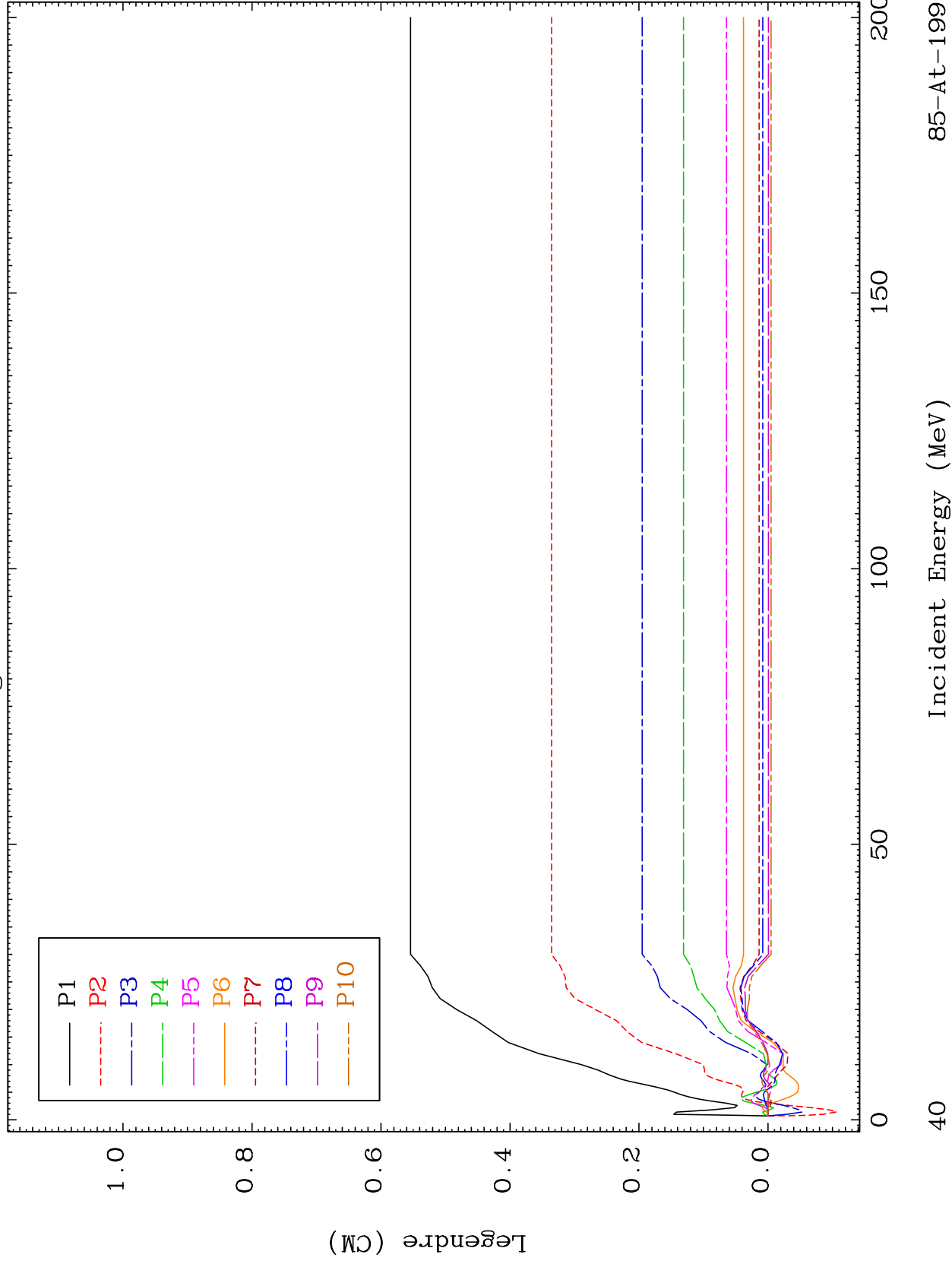




MAT 8513

681.9 keV (n,n') Level  
Legendre Coefficients

85-At-199



85-At-199

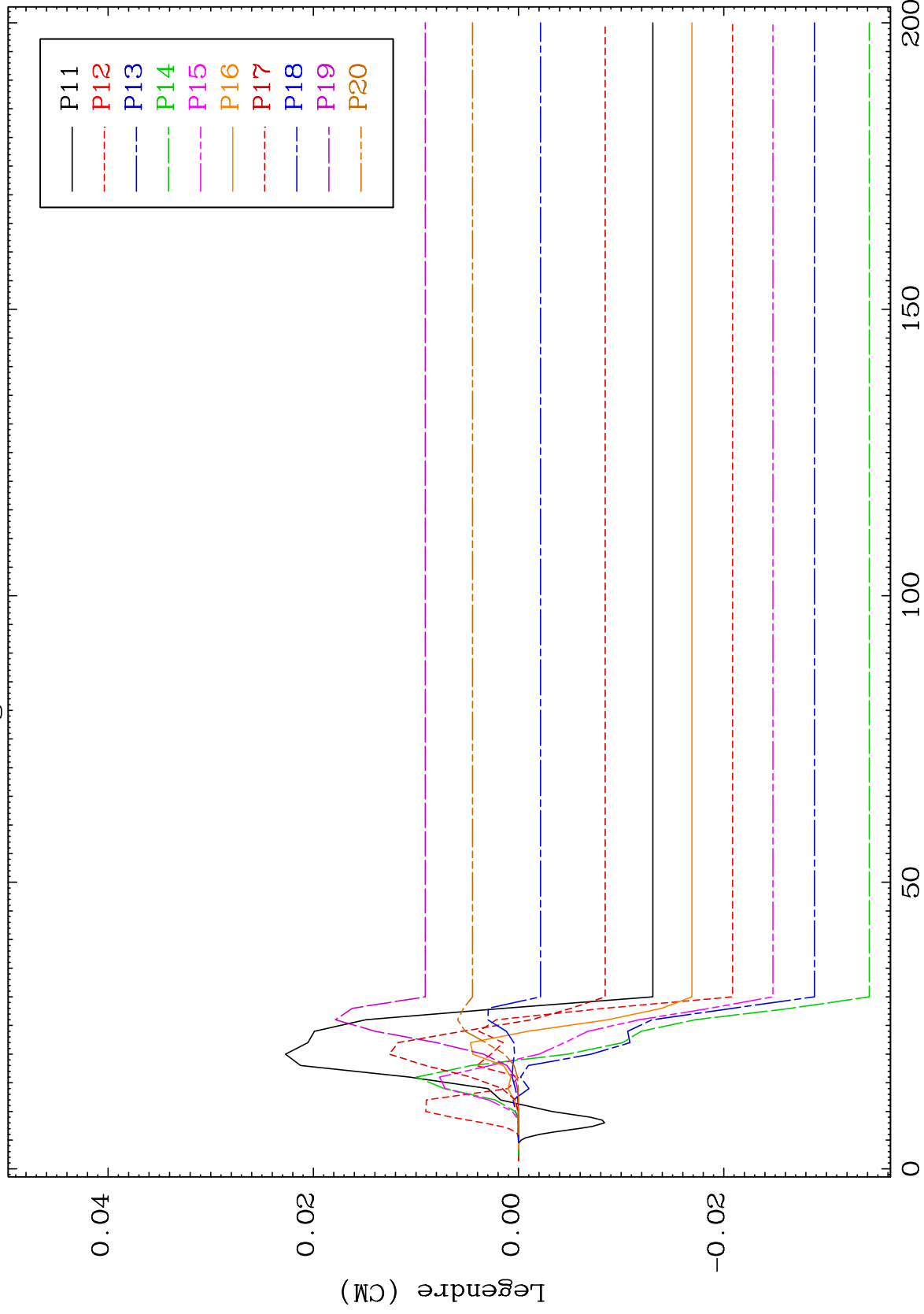
Incident Energy (MeV)

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MAT 8513

681.9 keV (n,n') Level  
Legendre Coefficients

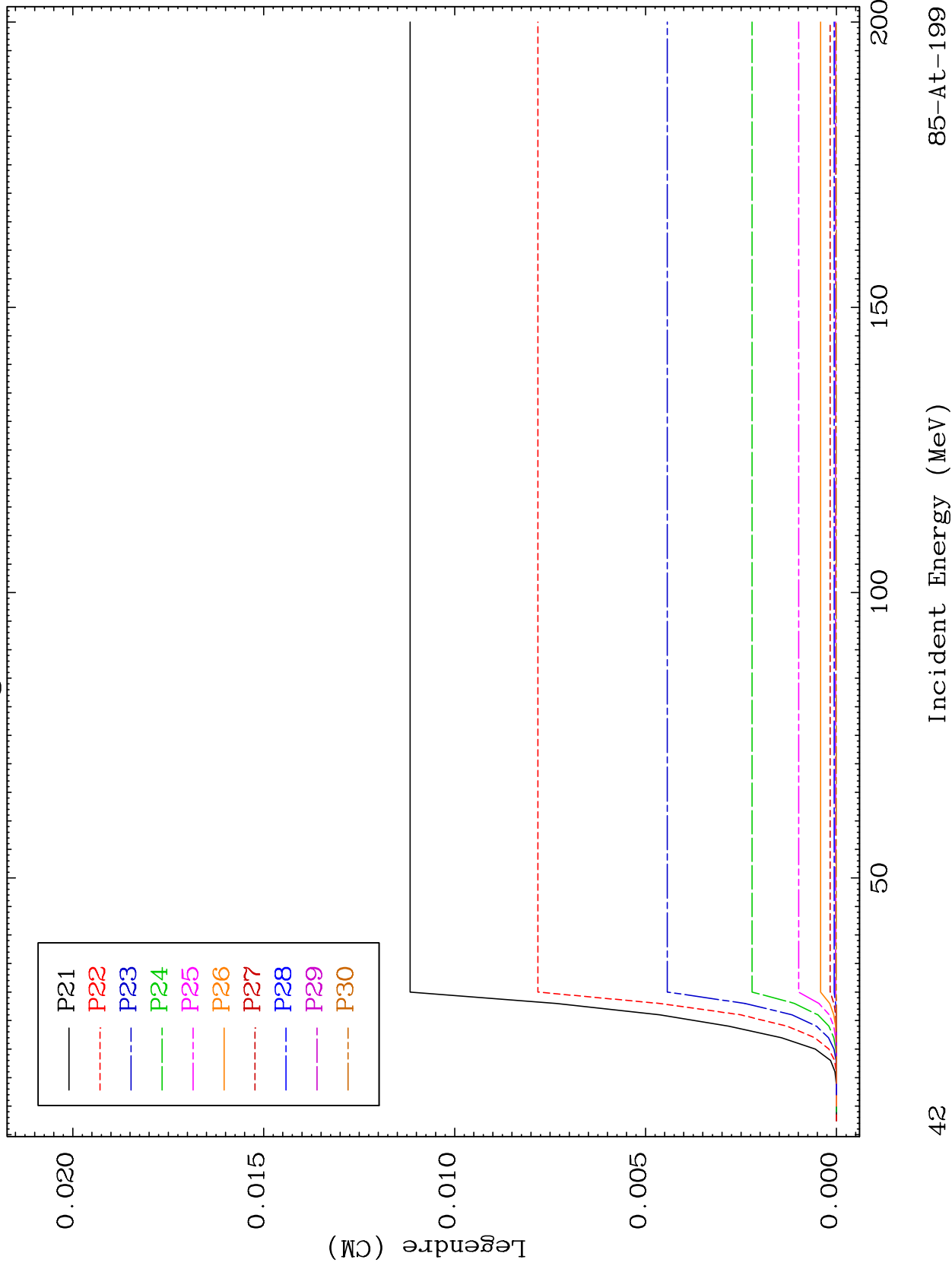
85-At-199



MAT 8513

681.9 keV (n,n') Level  
Legendre Coefficients

85-At-199



42

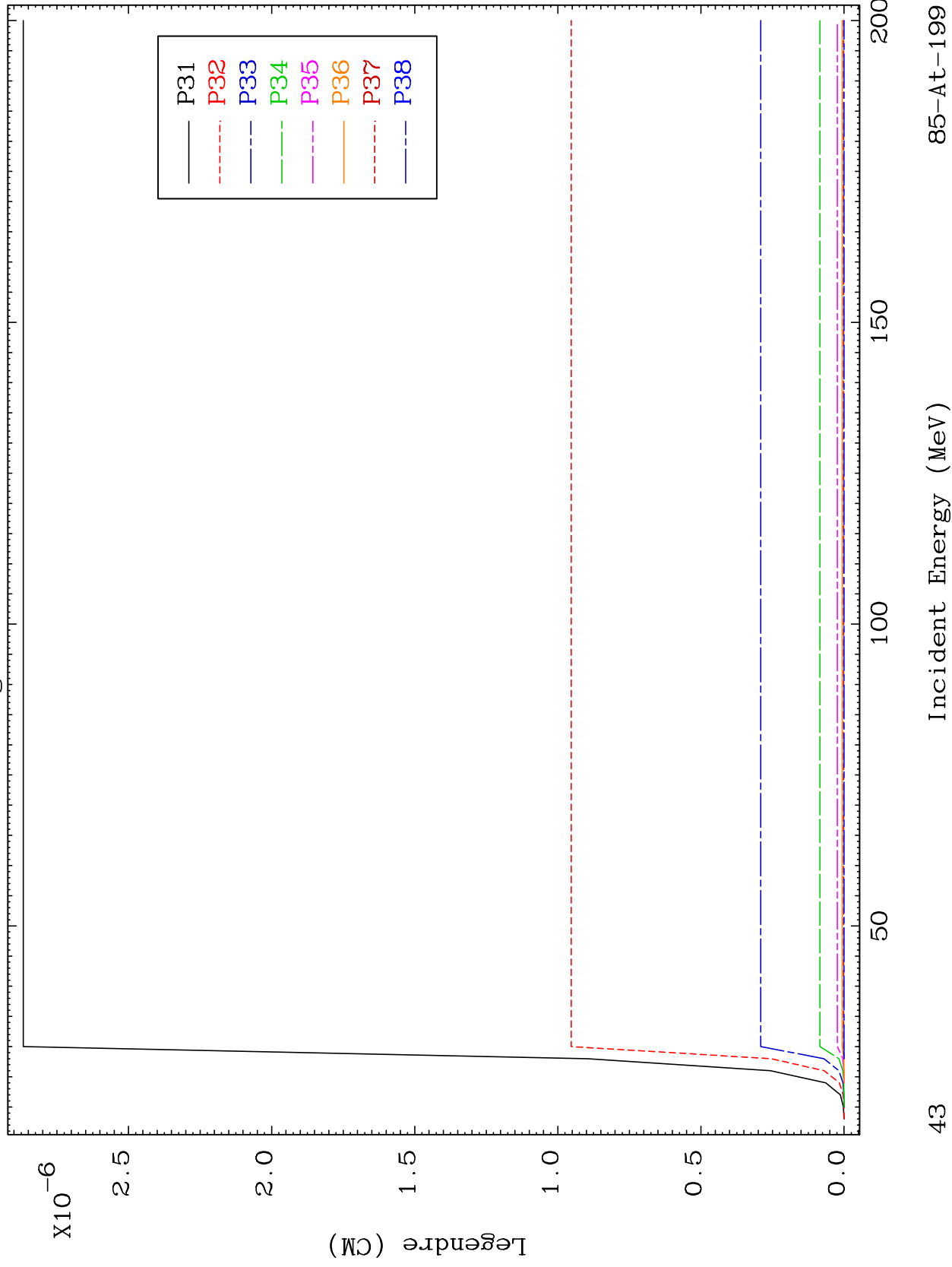
Incident Energy (MeV)

85-At-199

MAT 8513

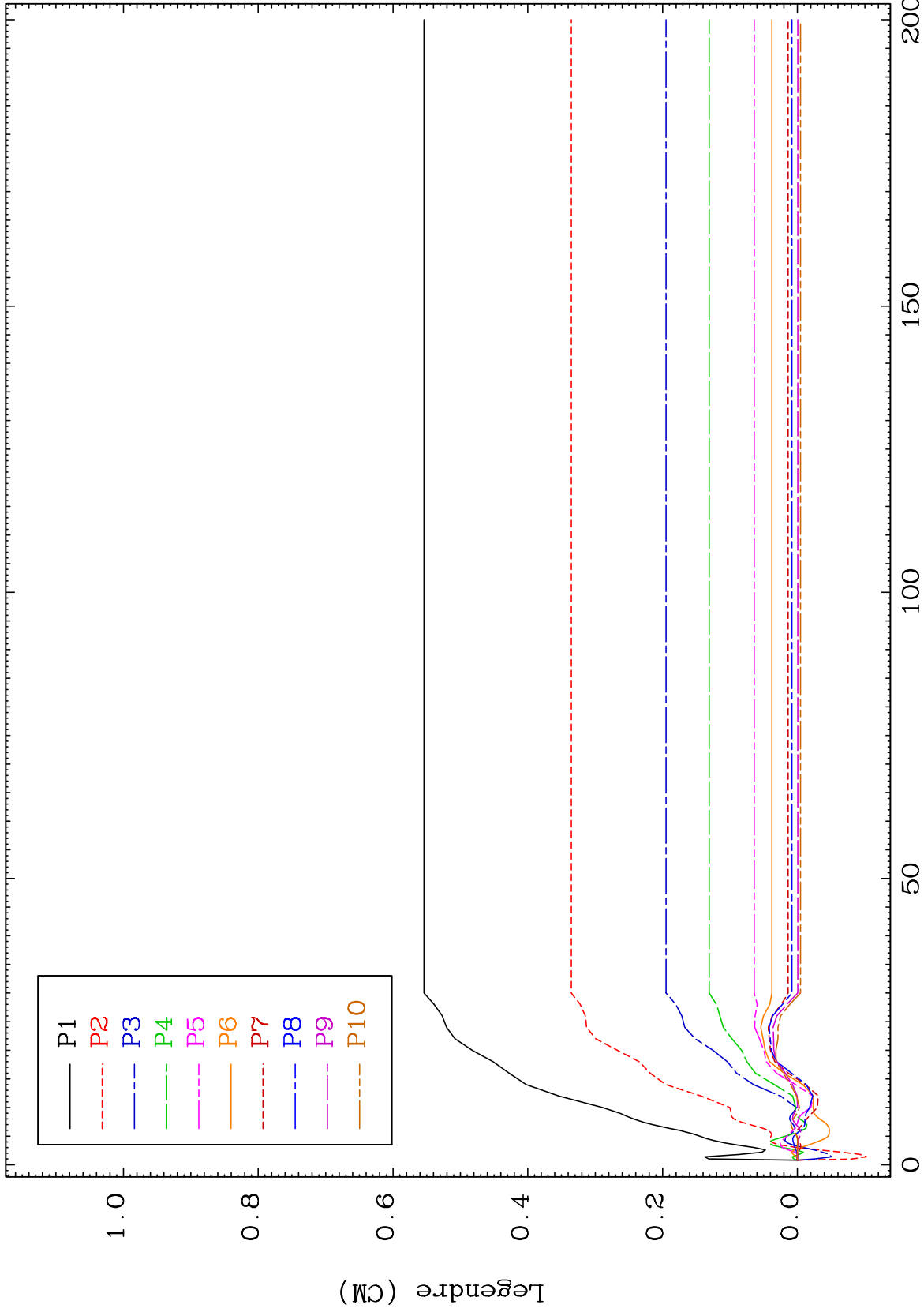
681.9 keV (n,n') Level  
Legendre Coefficients

85-At-199



43

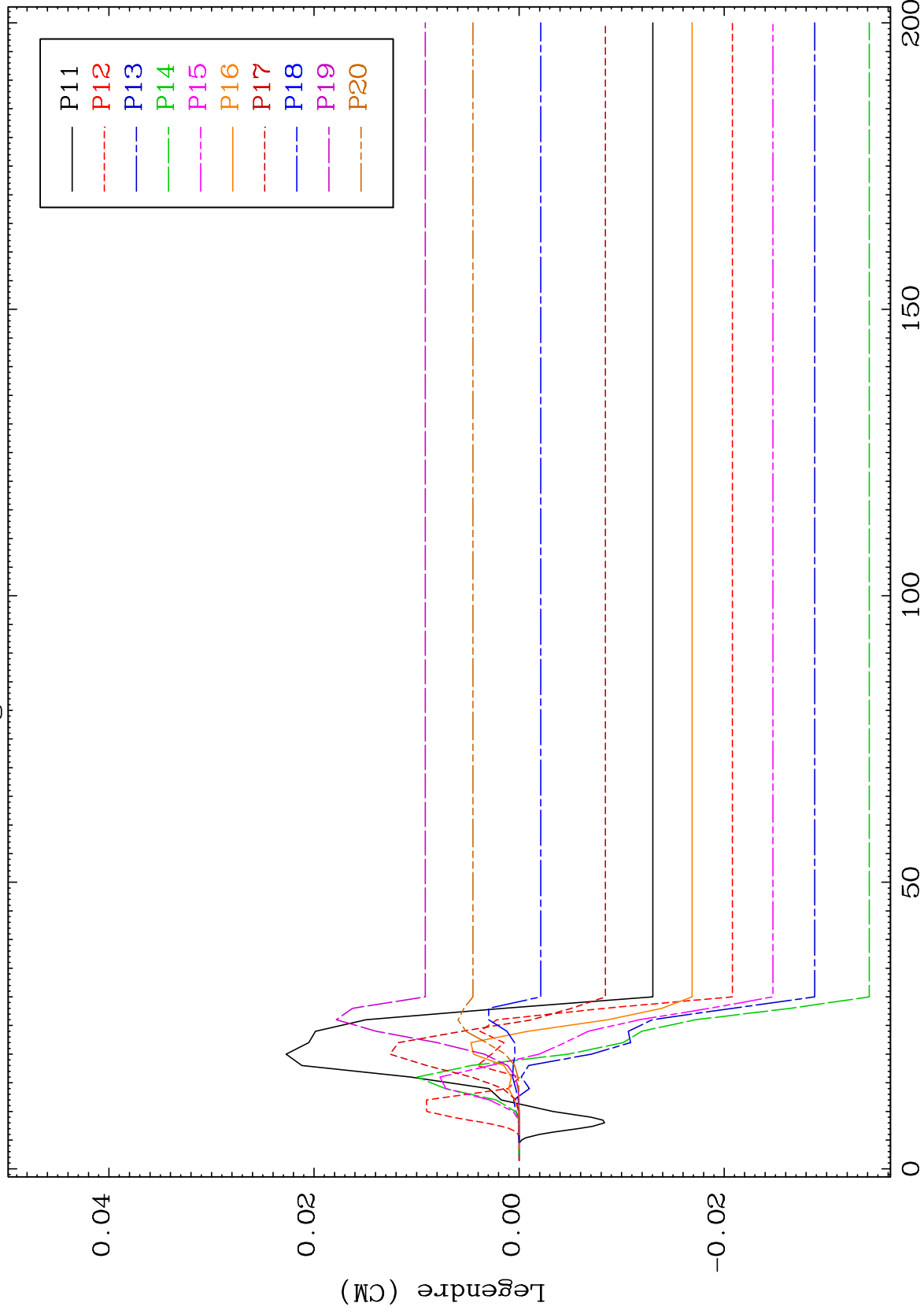
85-At-199



MAT 8513

705.7 keV (n,n') Level  
Legendre Coefficients

85-At-199



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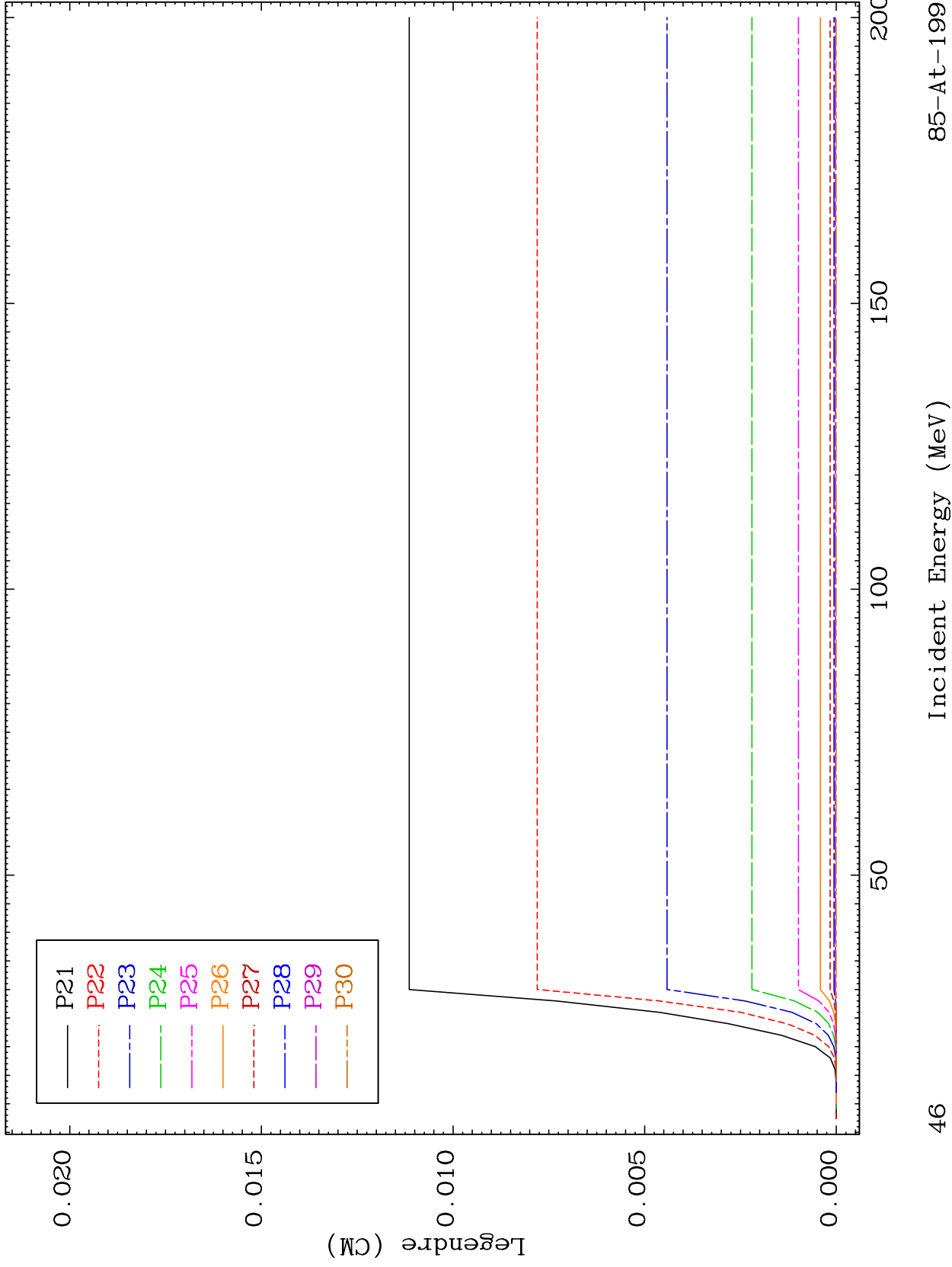
Incident Energy (MeV)

85-At-199

MAT 8513

705.7 keV (n,n') Level  
Legendre Coefficients

85-At-199



46

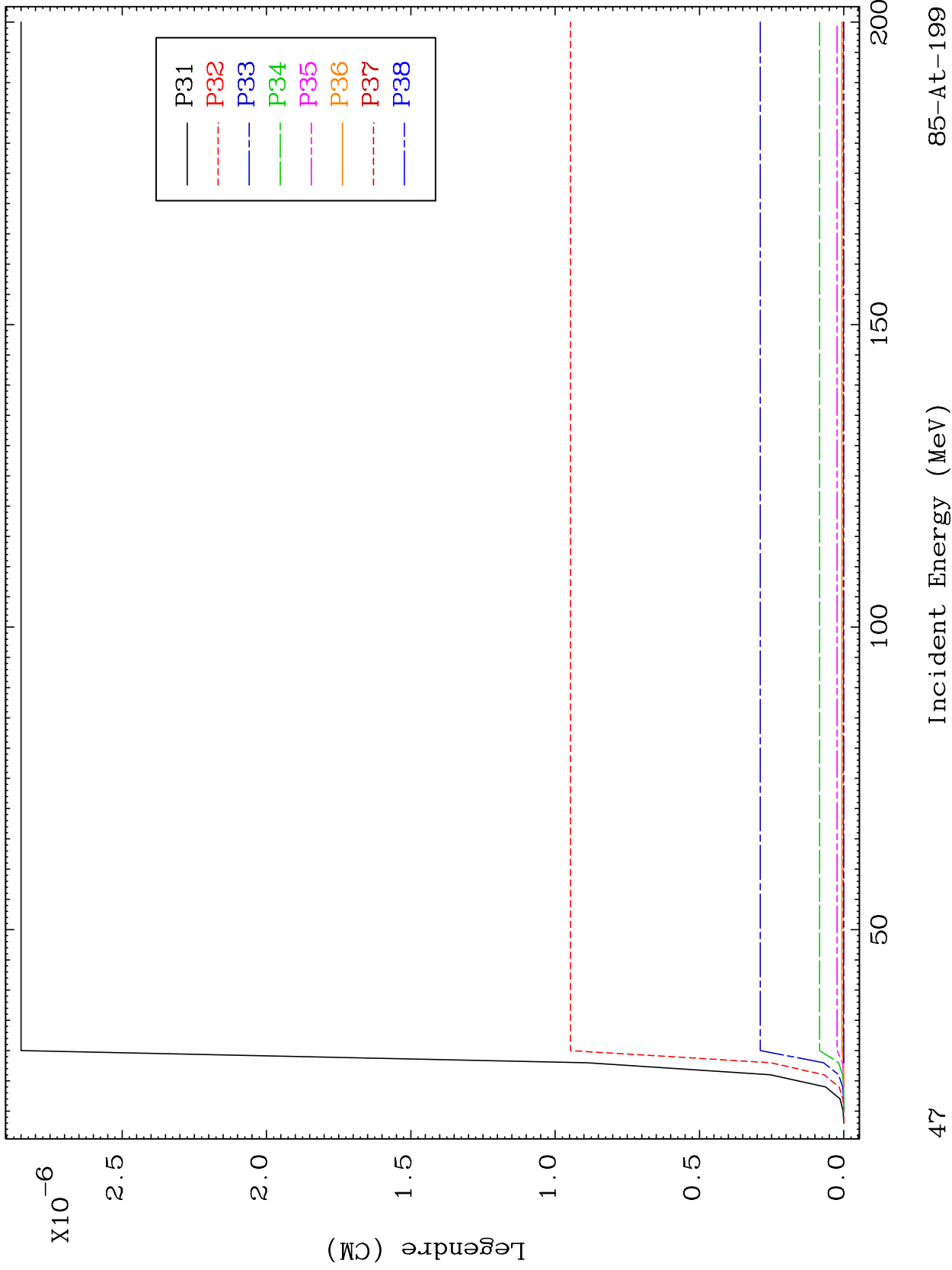
Incident Energy (MeV)

85-At-199

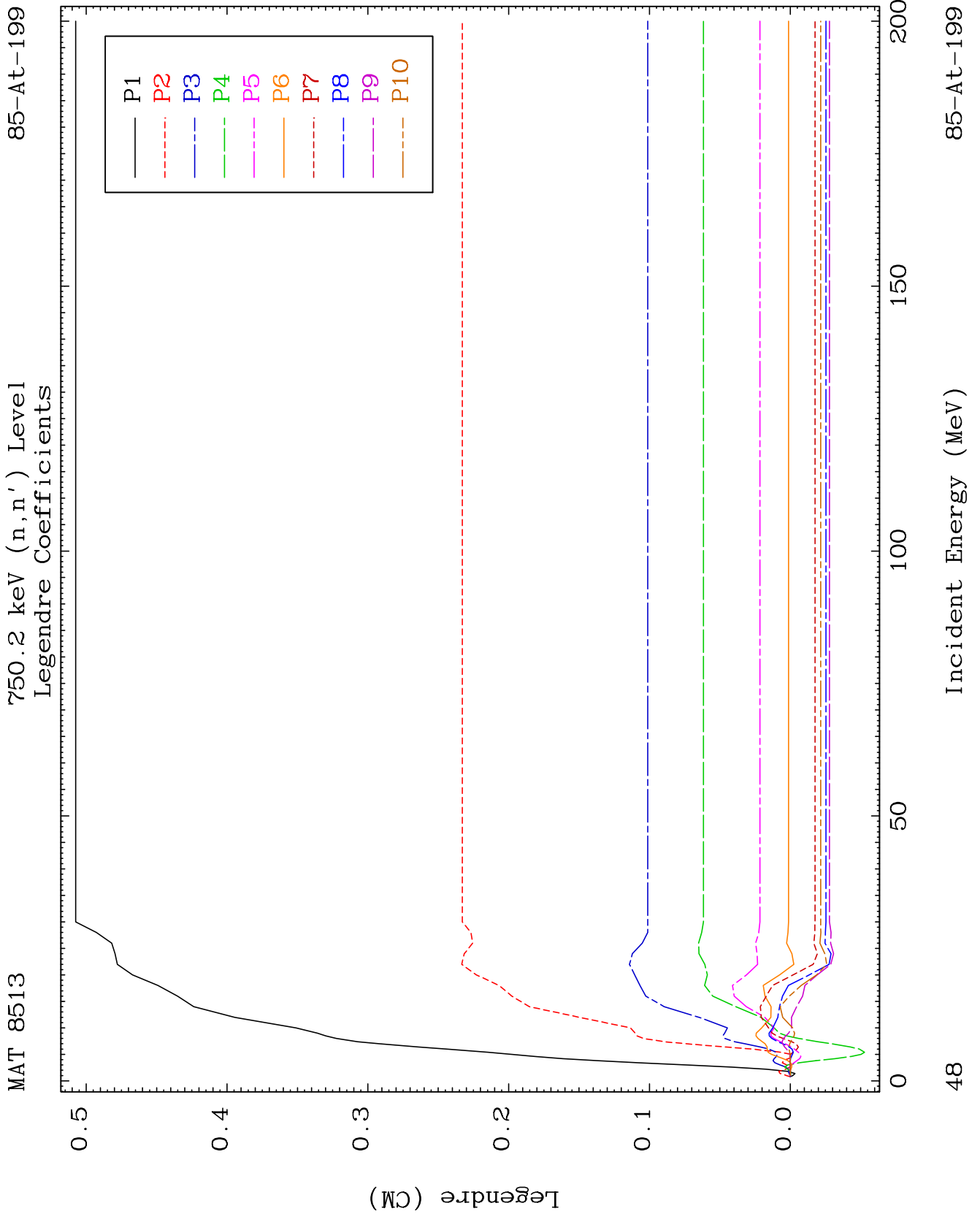
MAT 8513

705.7 keV (n,n') Level  
Legendre Coefficients

85-At-199



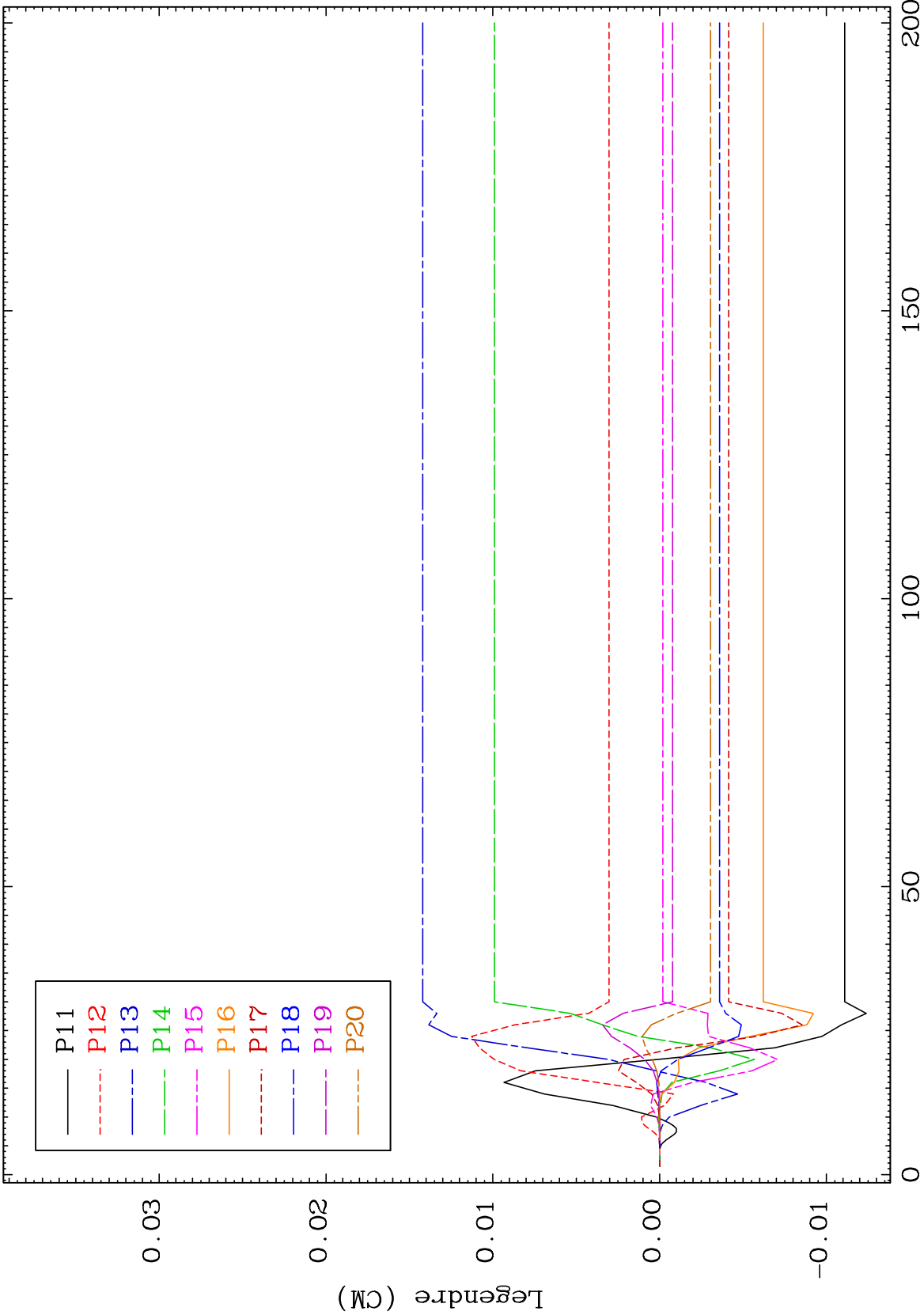




MAT 8513

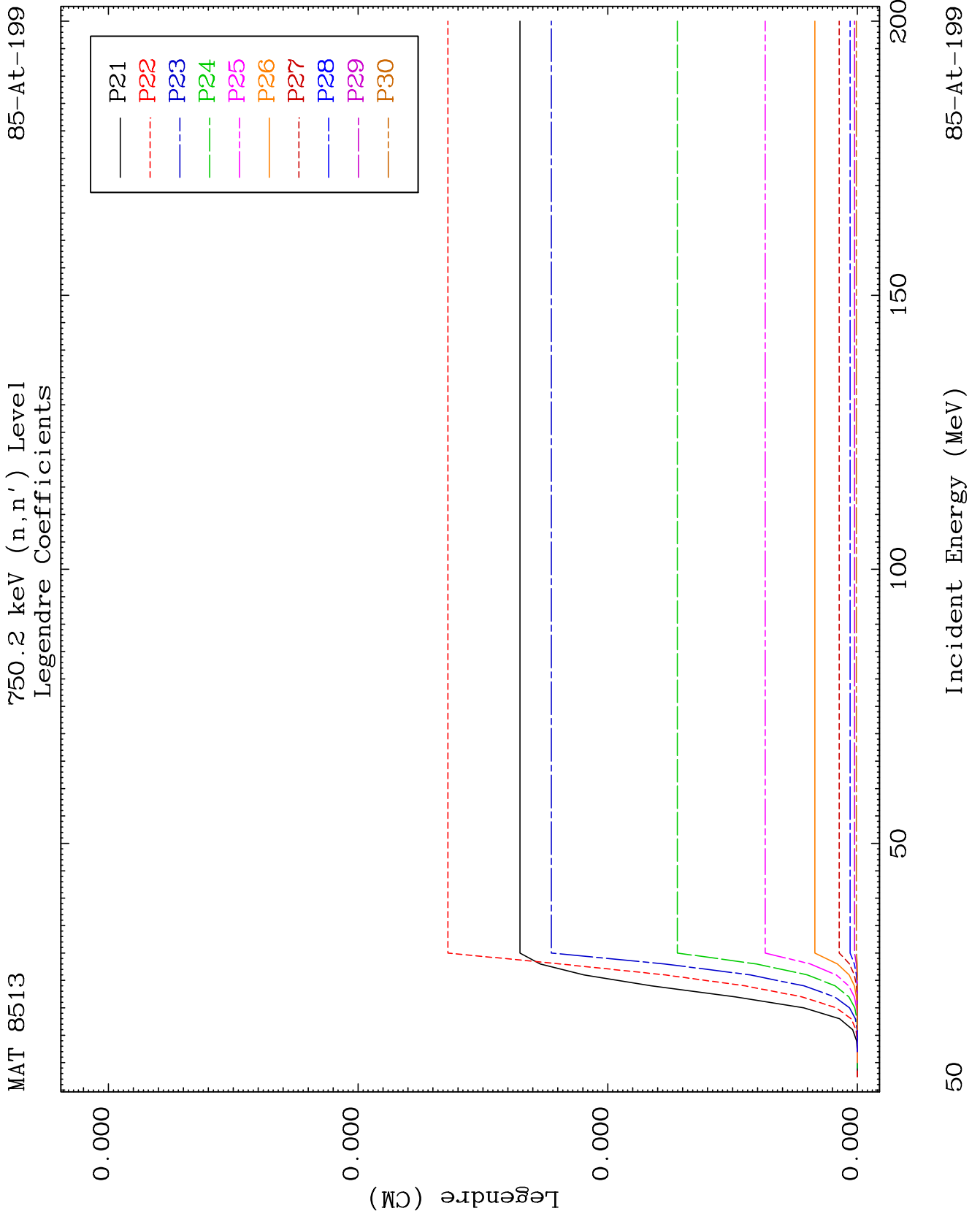
750.2 keV (n,n') Level  
Legendre Coefficients

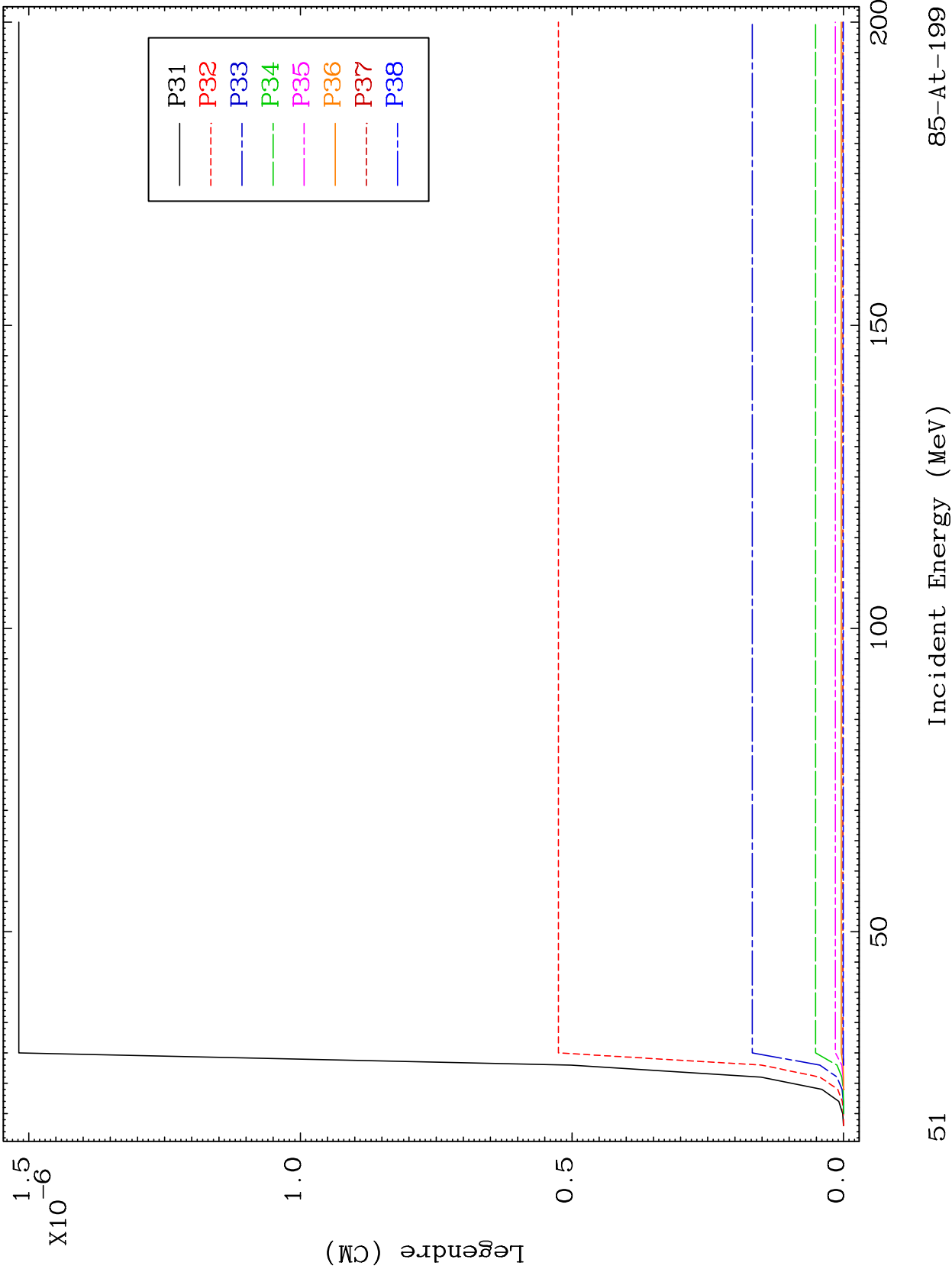
85-At-199

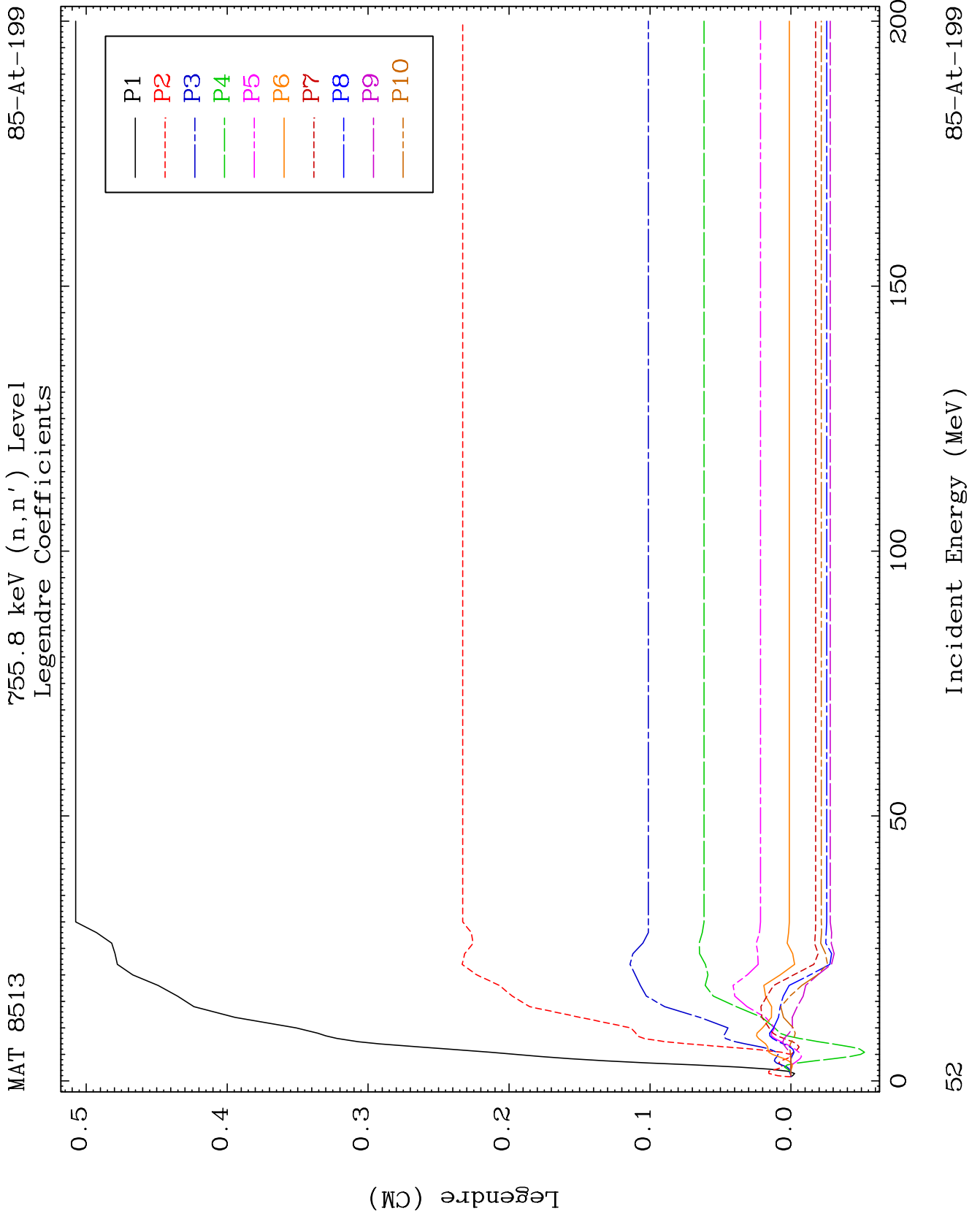


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85-At-199



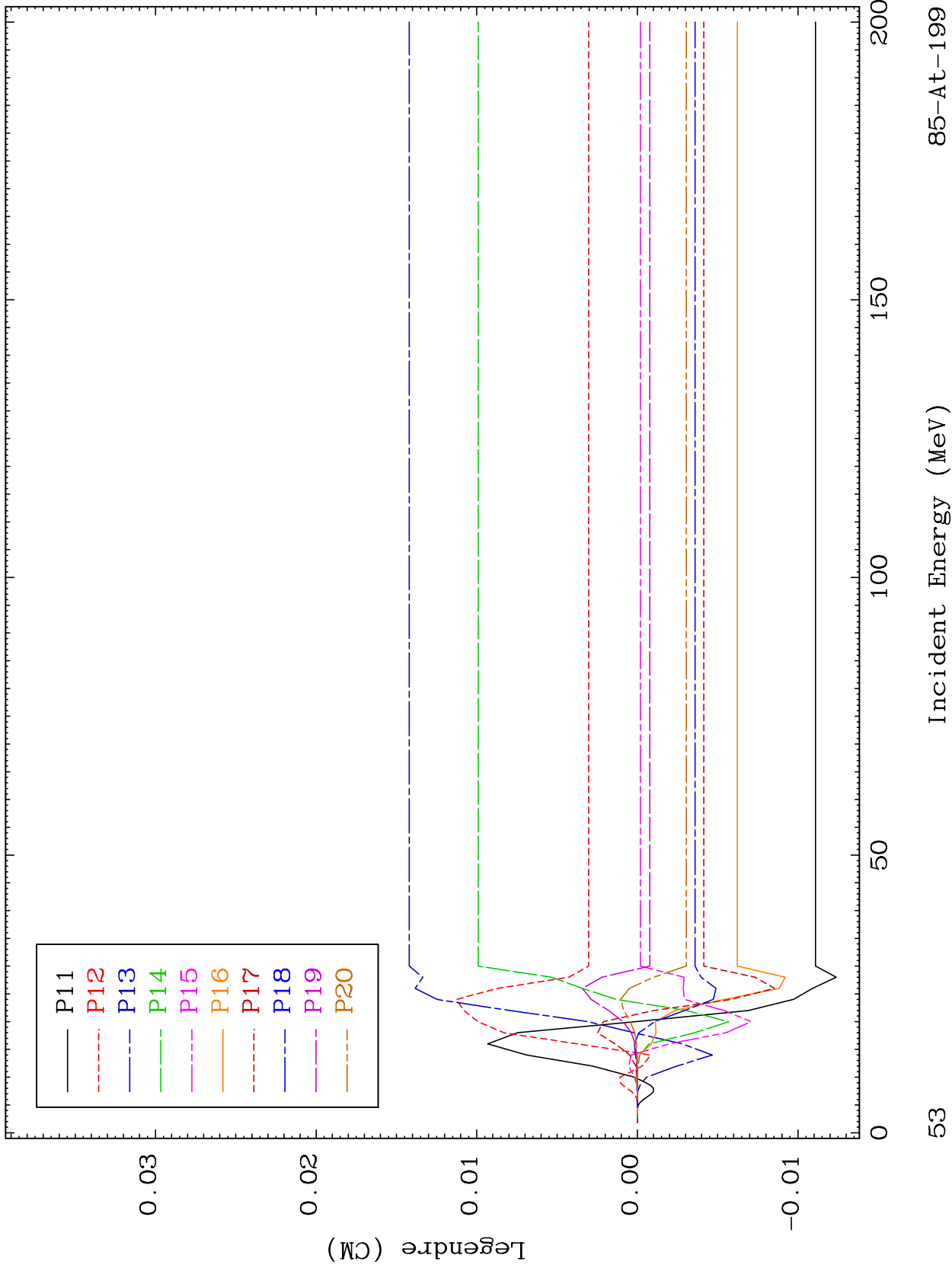




MAT 8513

755.8 keV (n,n') Level  
Legendre Coefficients

85-At-199



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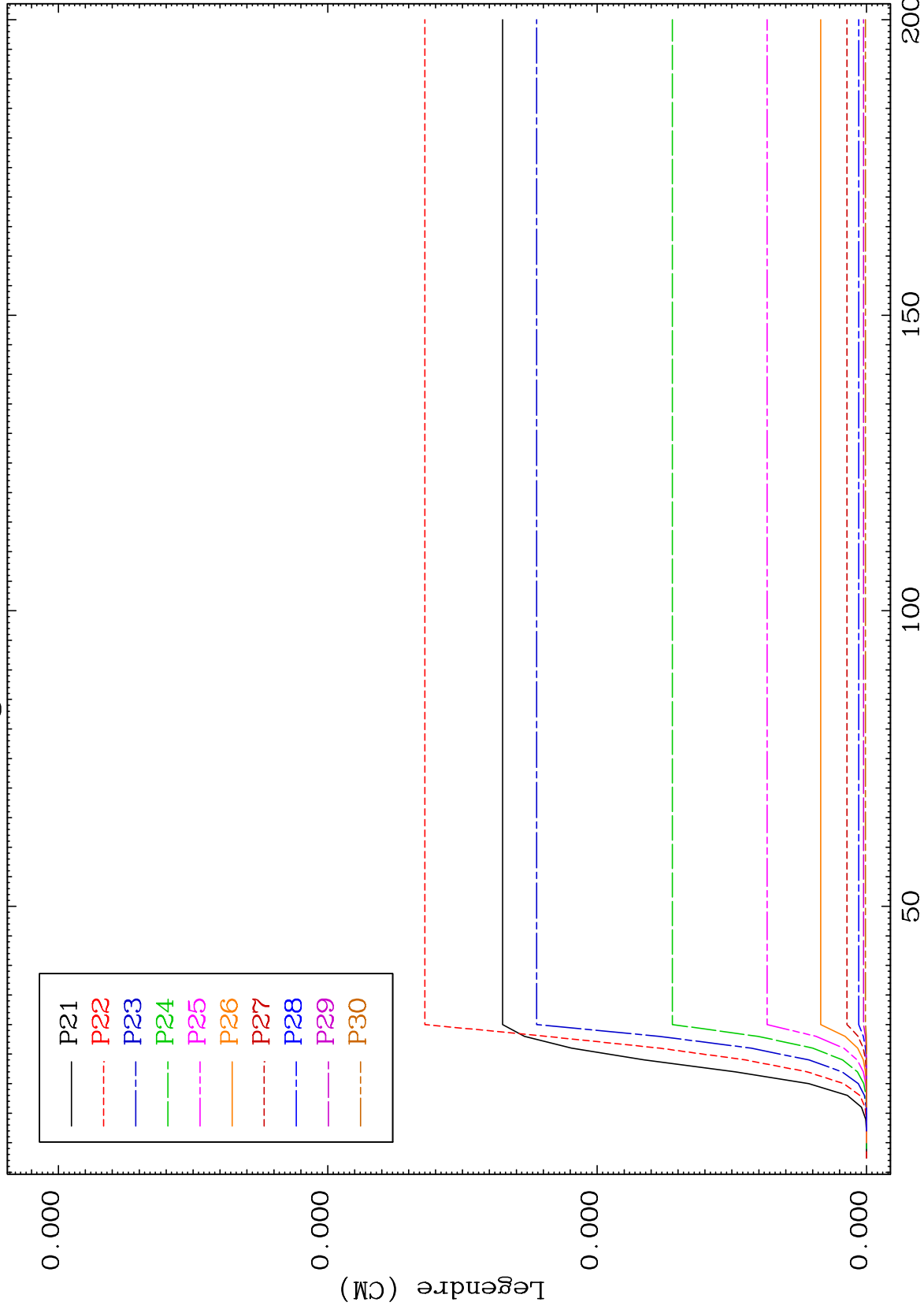
Incident Energy (MeV)

85-At-199

MAT 8513

755.8 keV (n,n') Level  
Legendre Coefficients

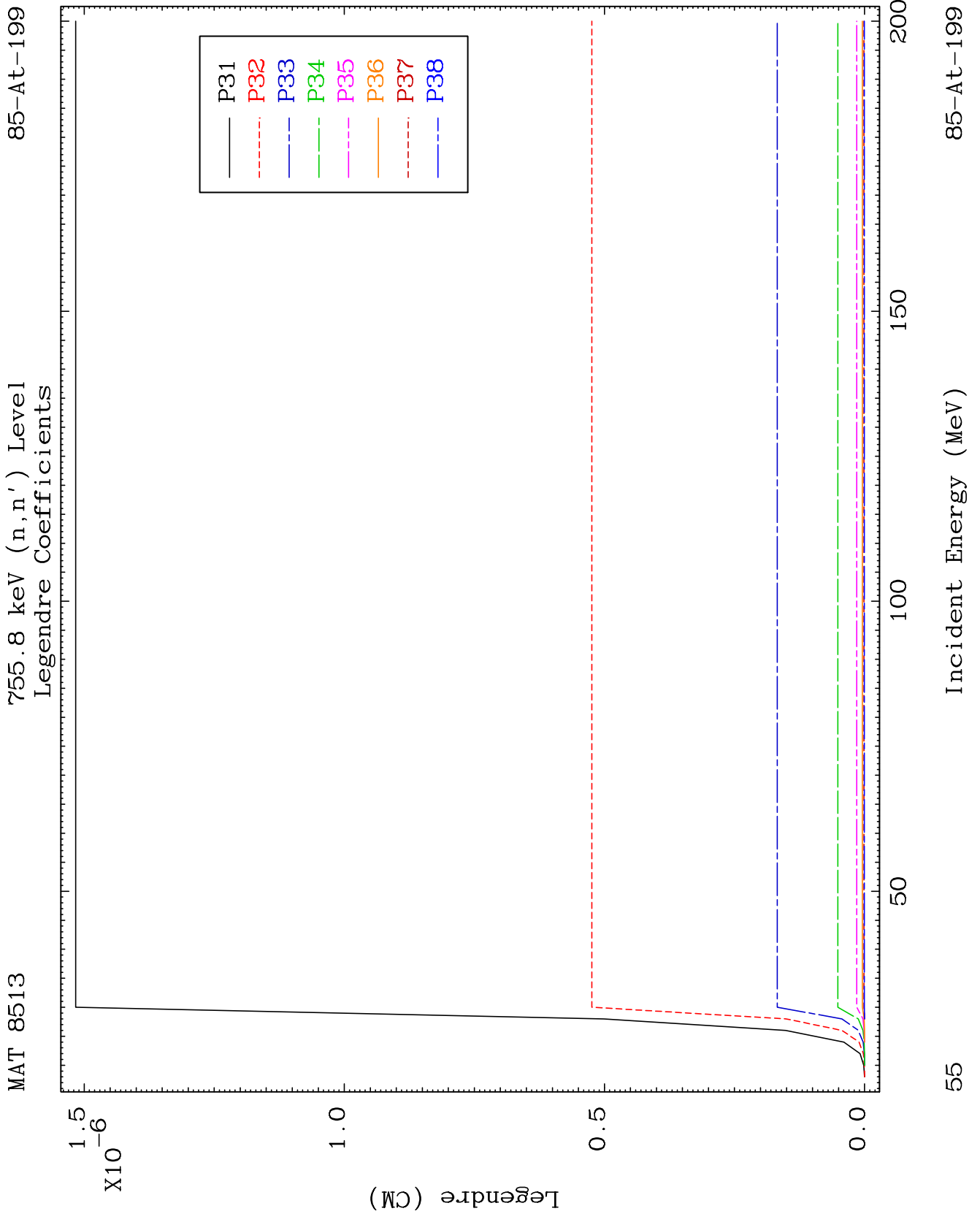
85-At-199



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Incident Energy (MeV)

85-At-199

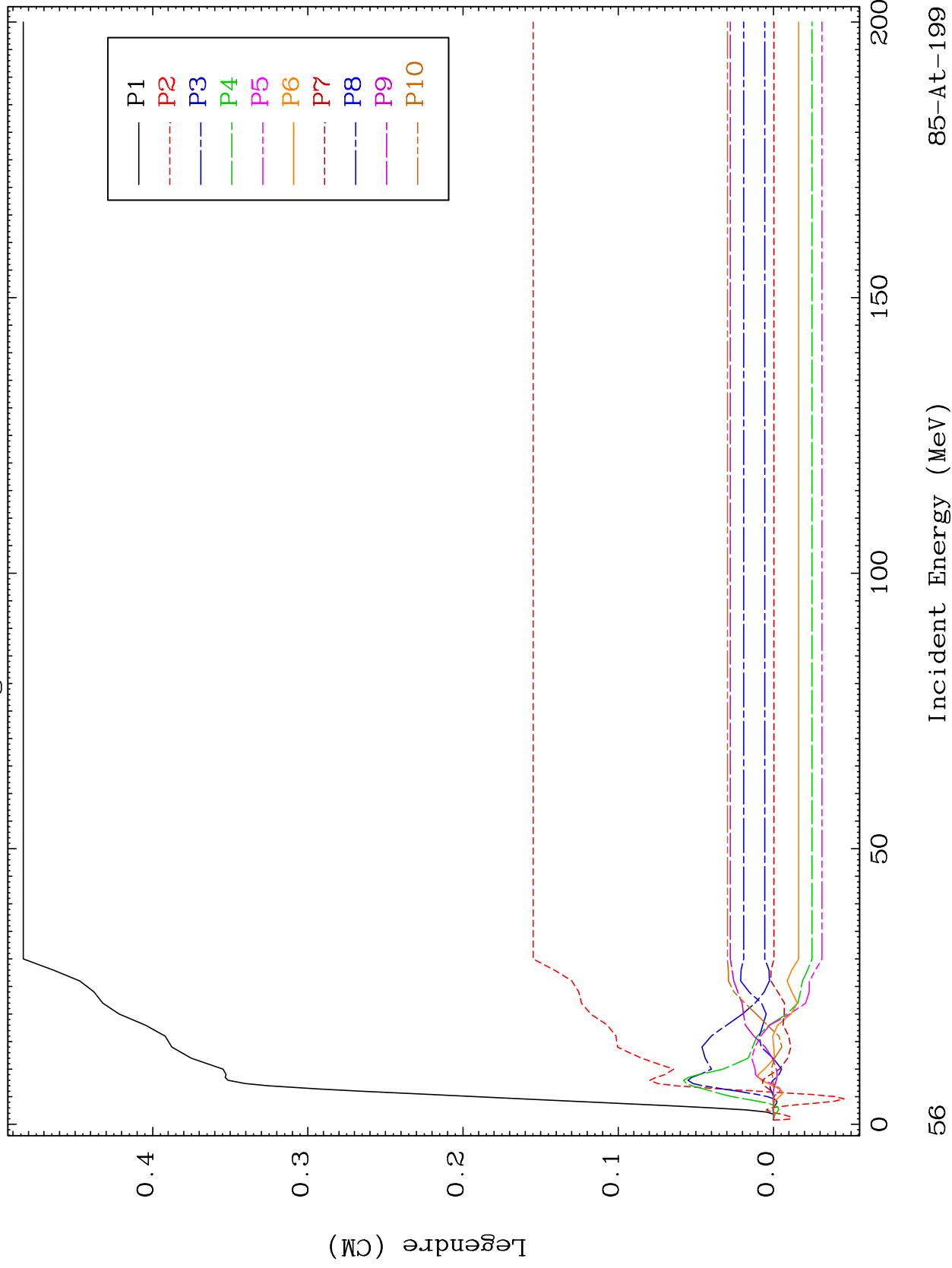




MAT 8513

760.4 keV (n,n') Level  
Legendre Coefficients

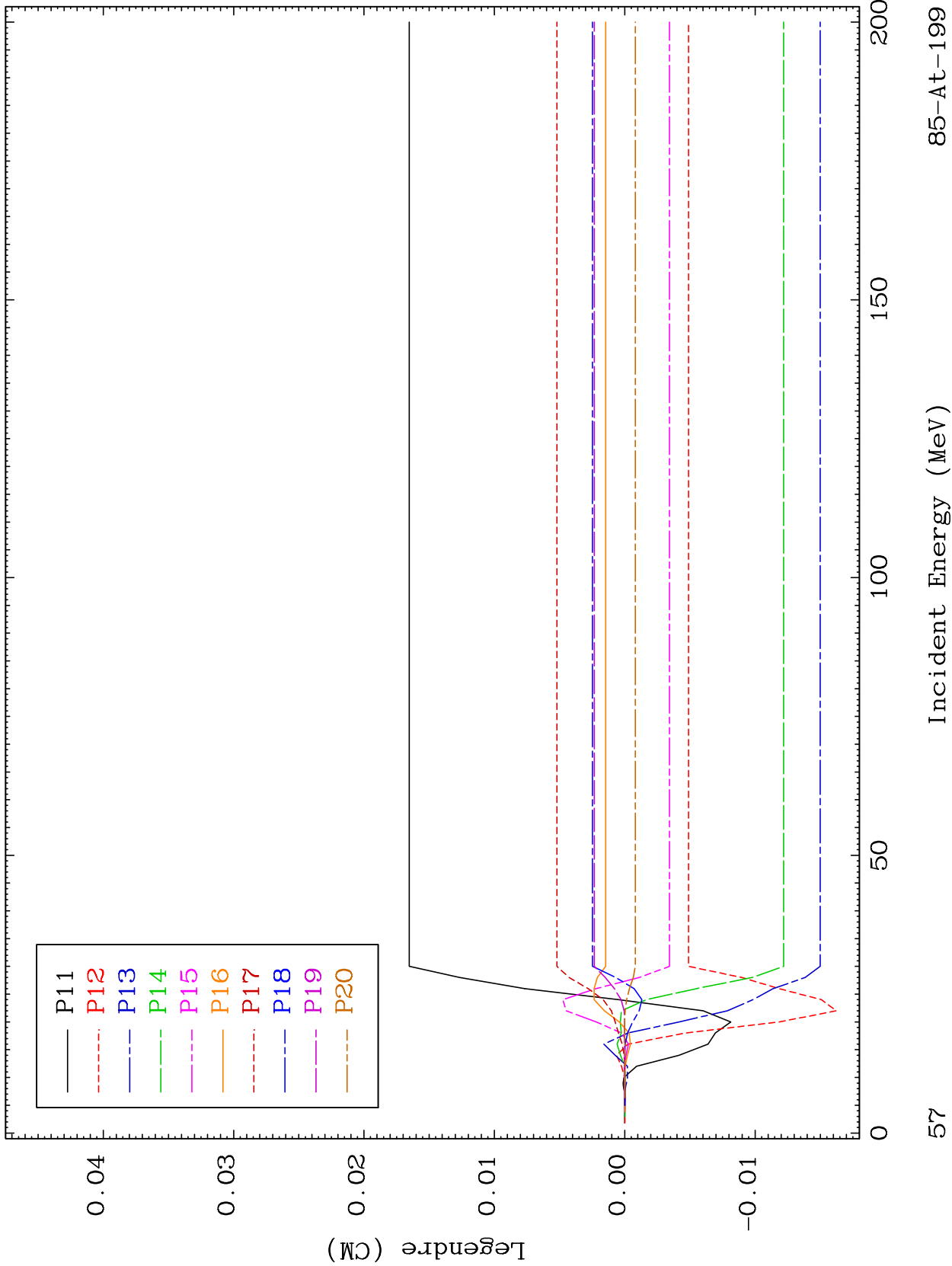
85-At-199

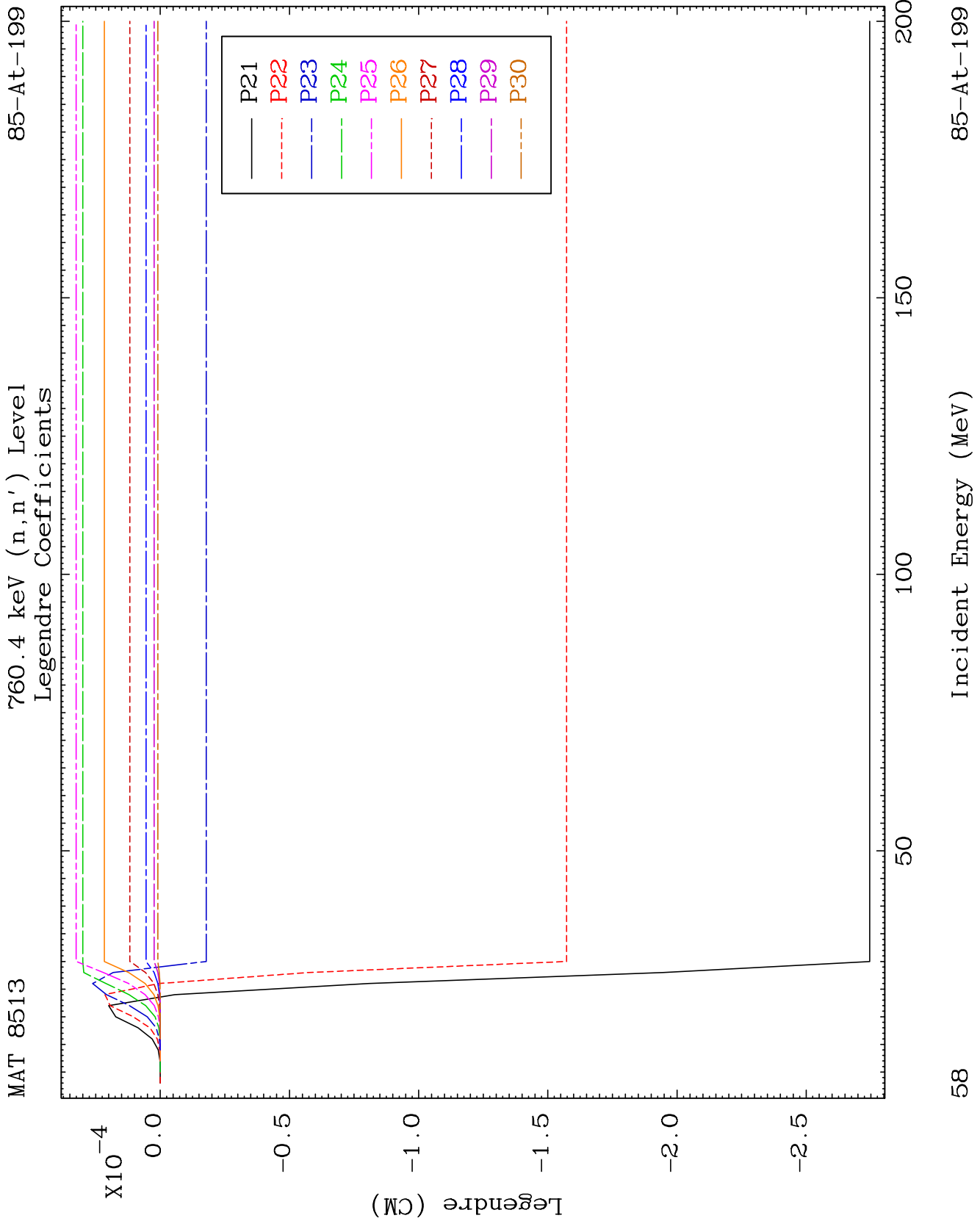


85-At-199

Incident Energy (MeV)

56

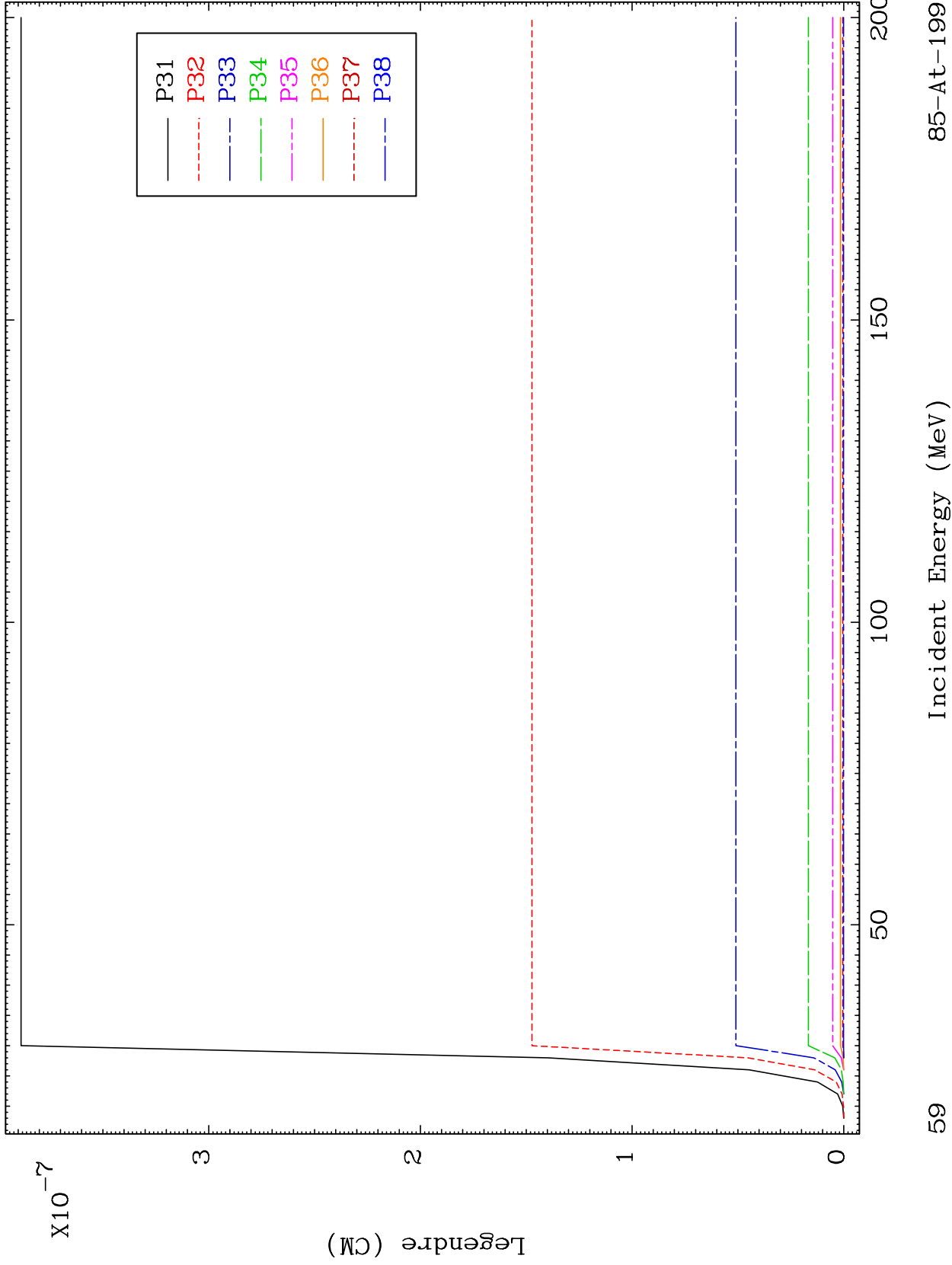




MAT 8513

760.4 keV (n,n') Level  
Legendre Coefficients

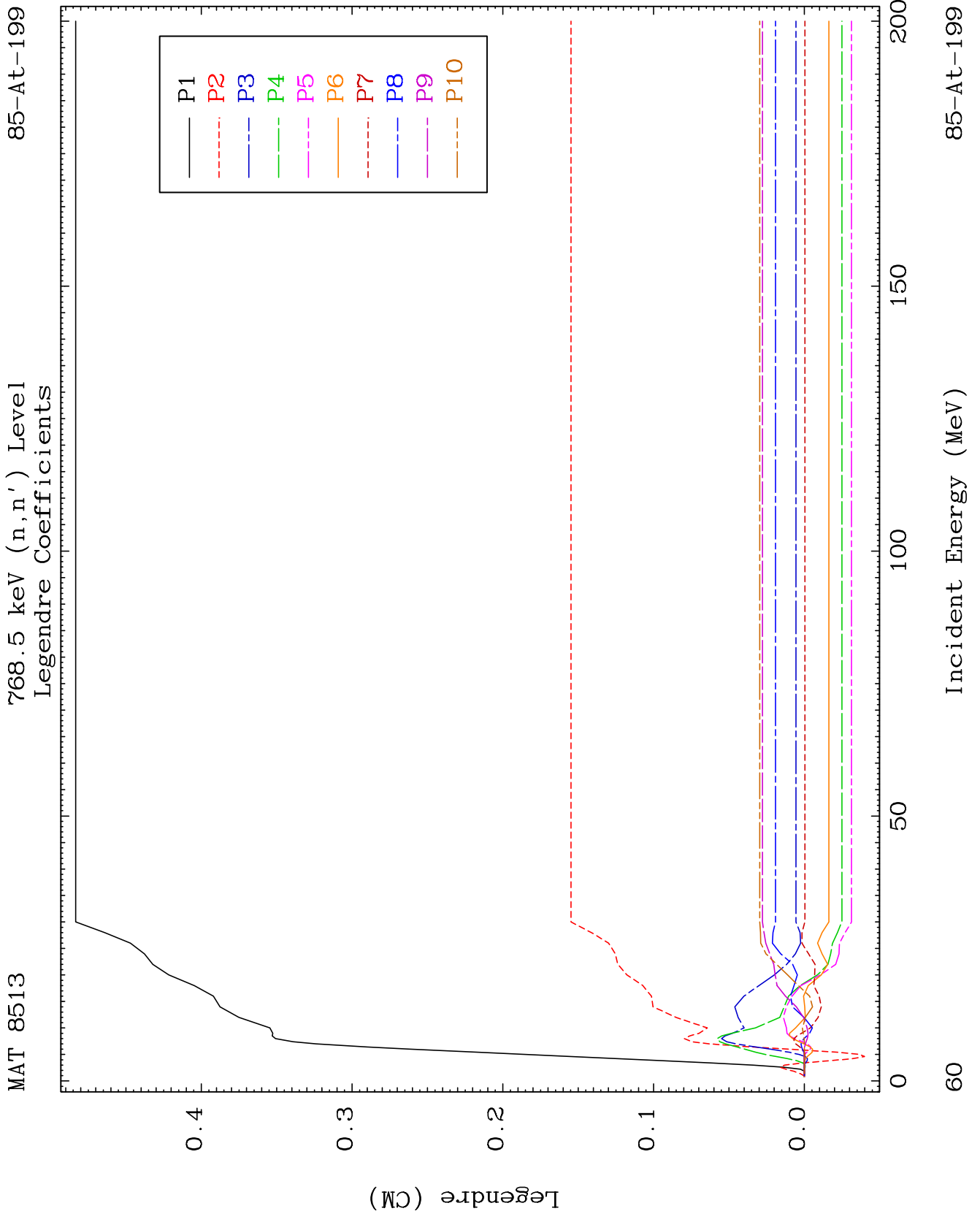
85-At-199



85-At-199

Incident Energy (MeV)

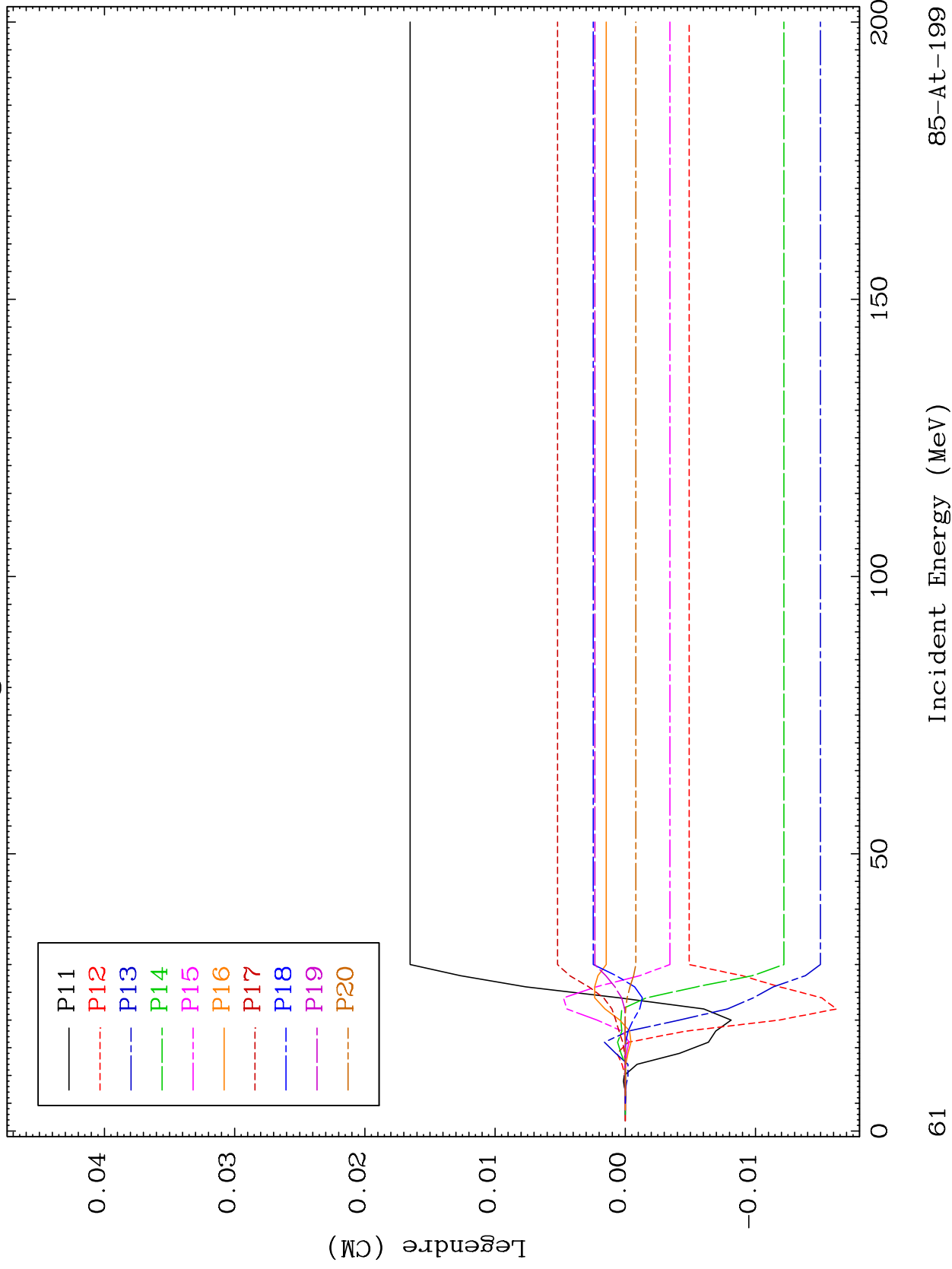
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MAT 8513

768.5 keV (n,n') Level  
Legendre Coefficients

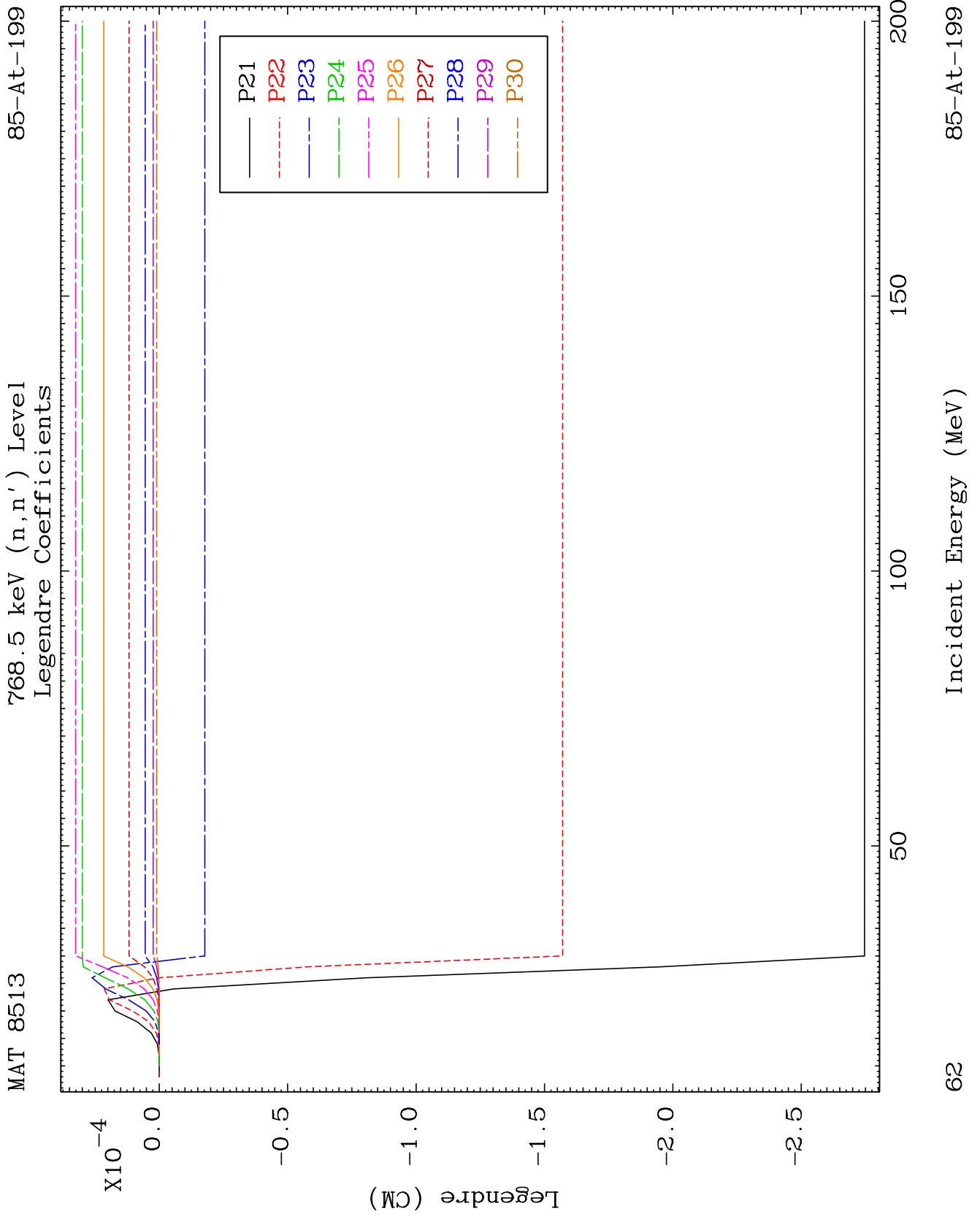
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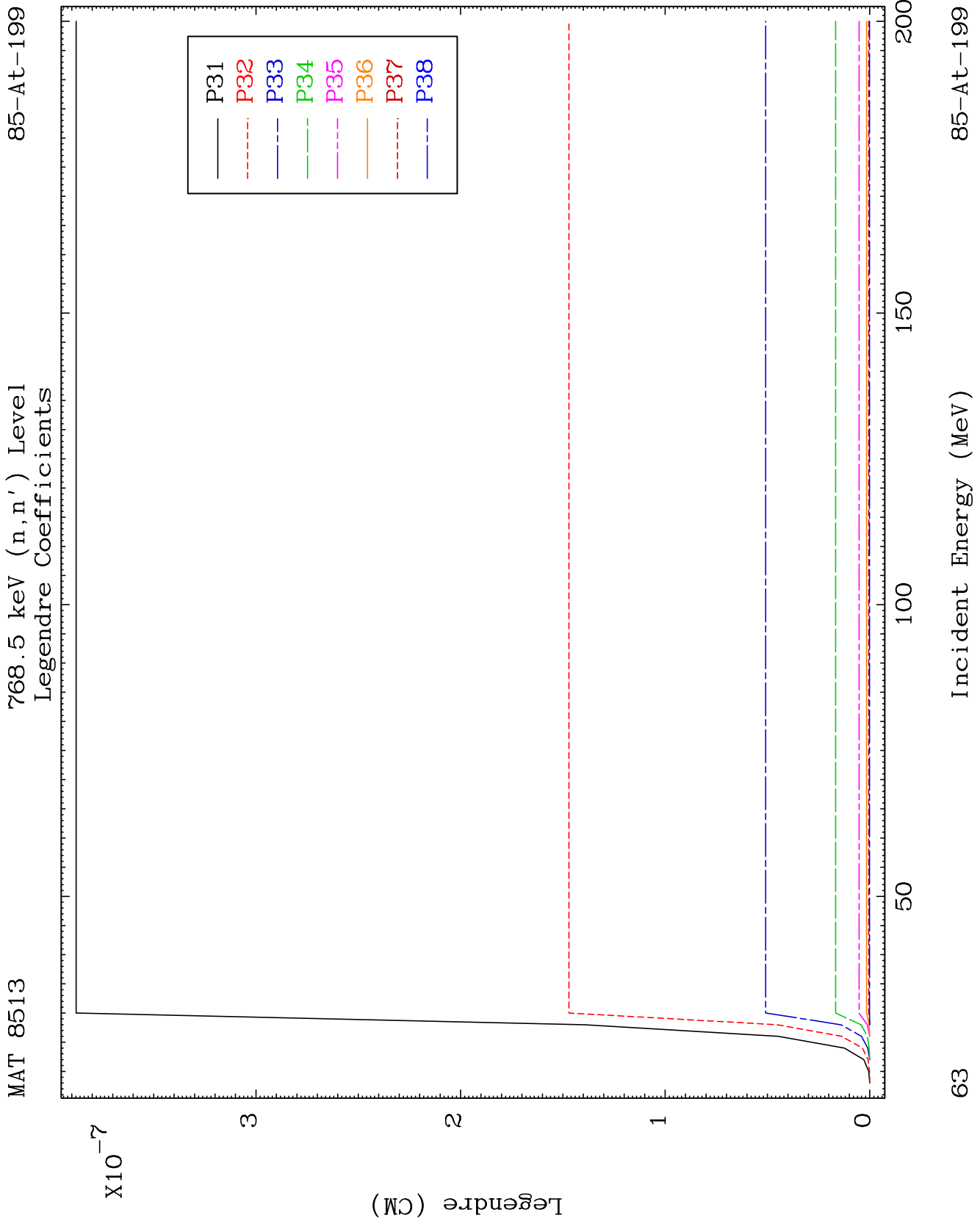


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Incident Energy (MeV)

85-At-199



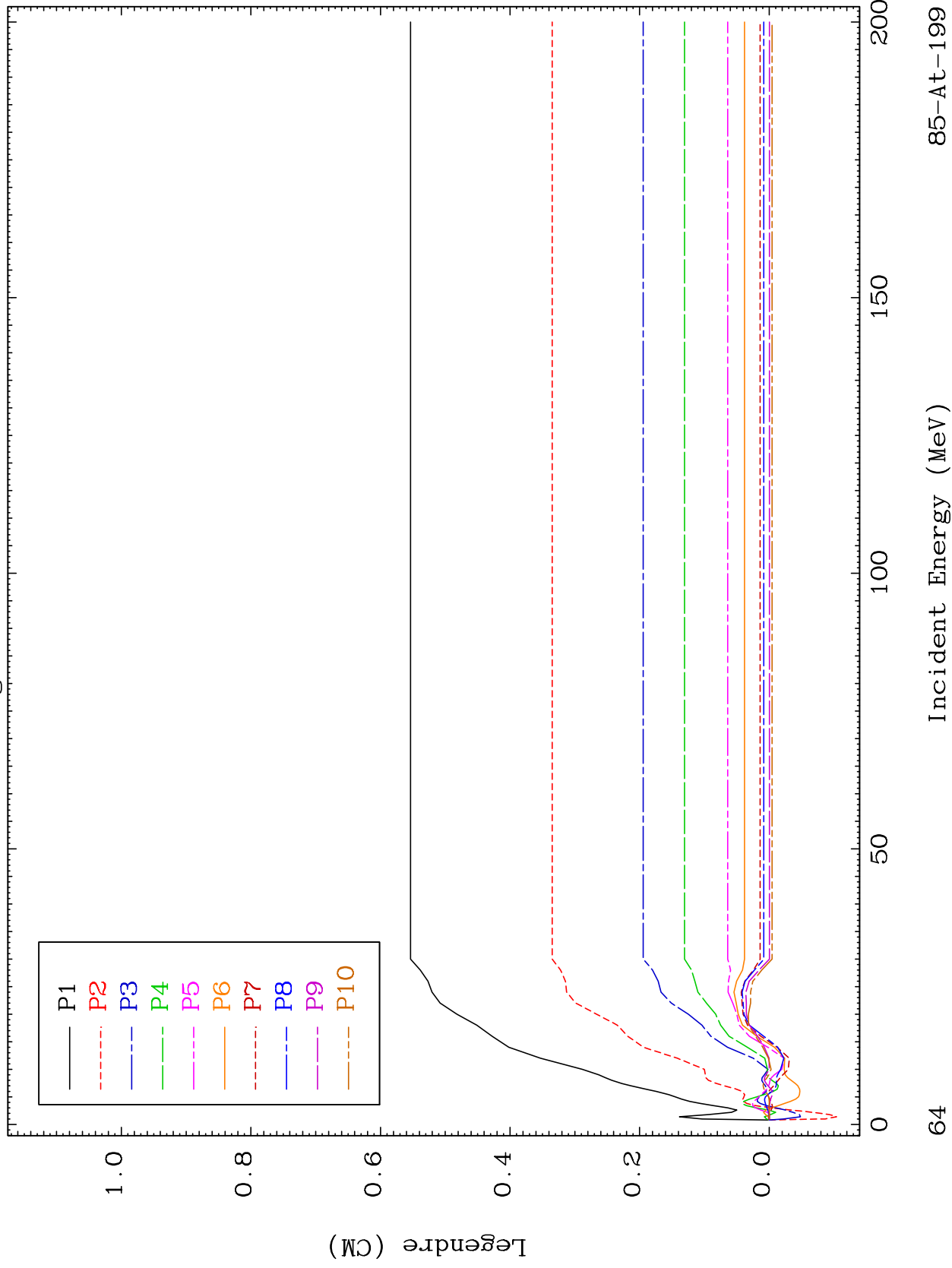




MAT 8513

783.8 keV (n,n') Level  
Legendre Coefficients

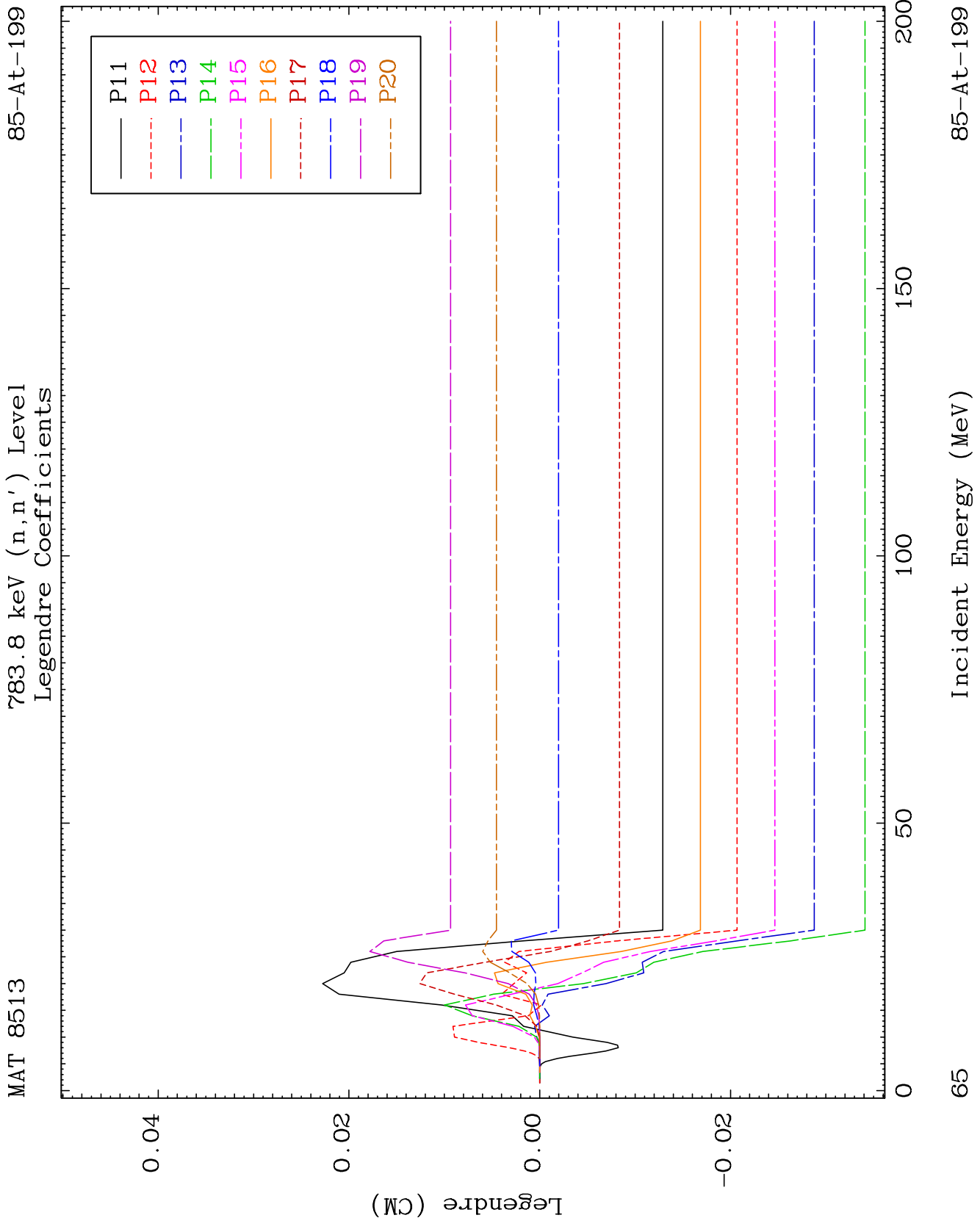
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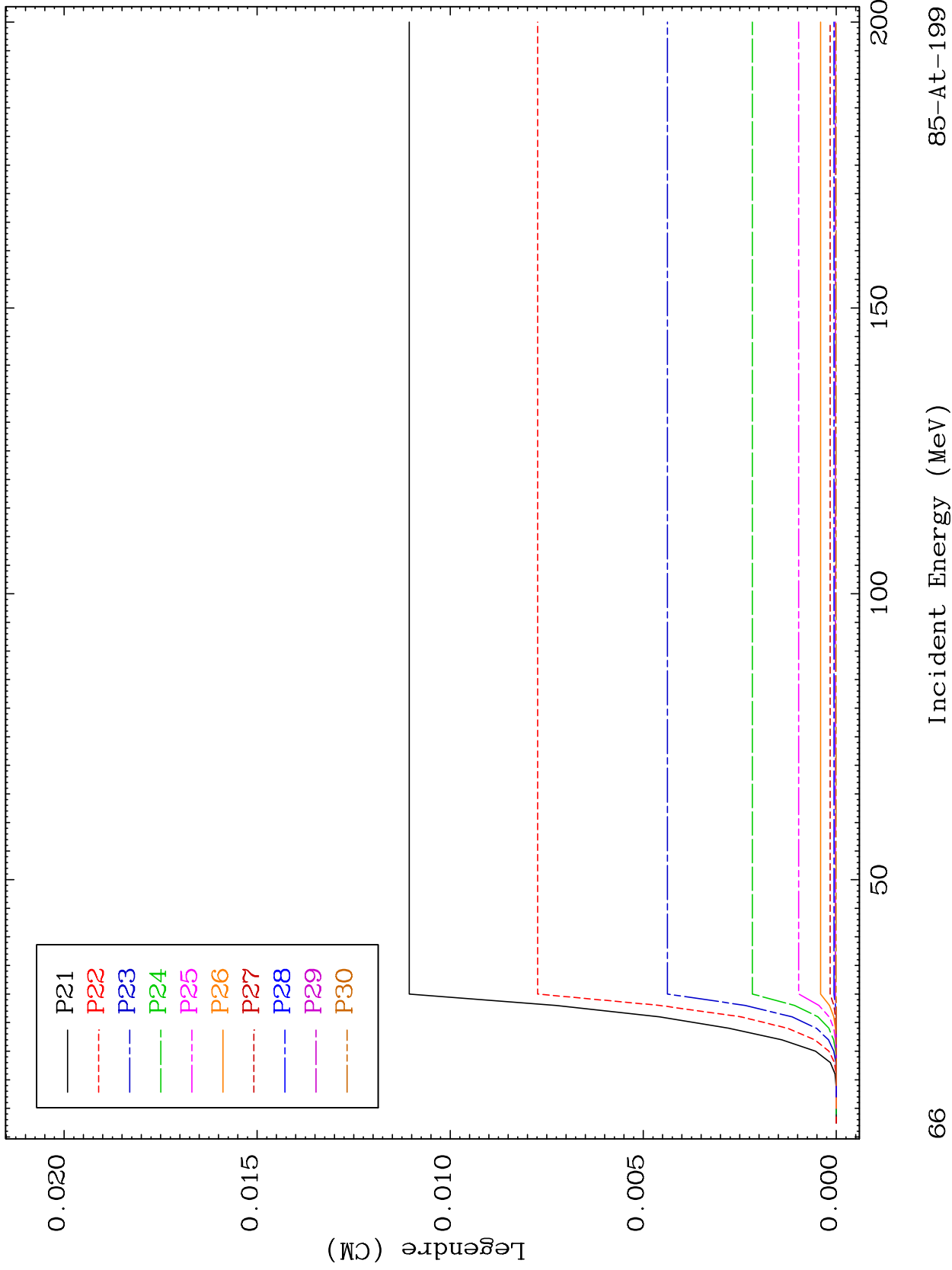


85-At-199

Incident Energy (MeV)

64

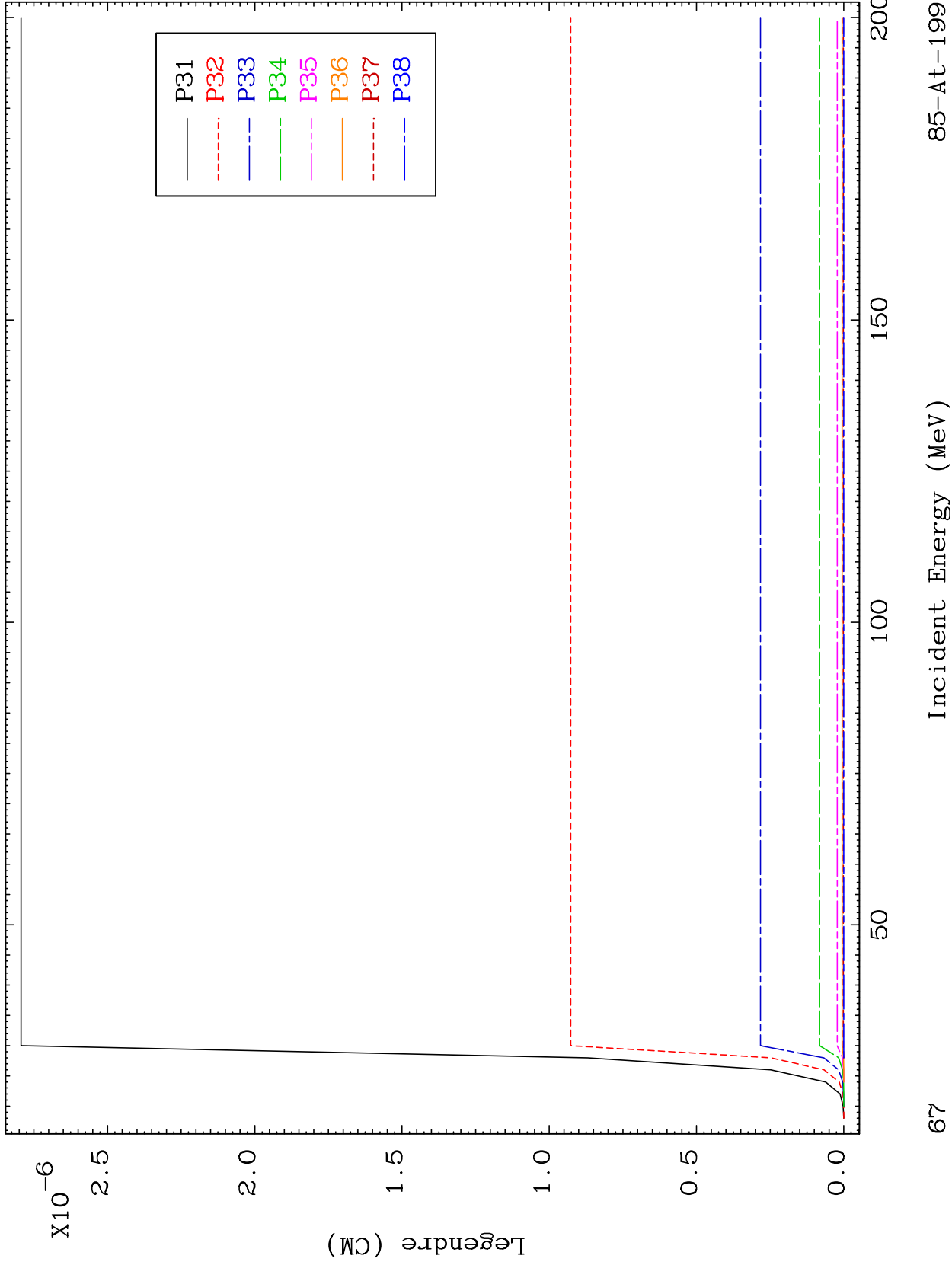


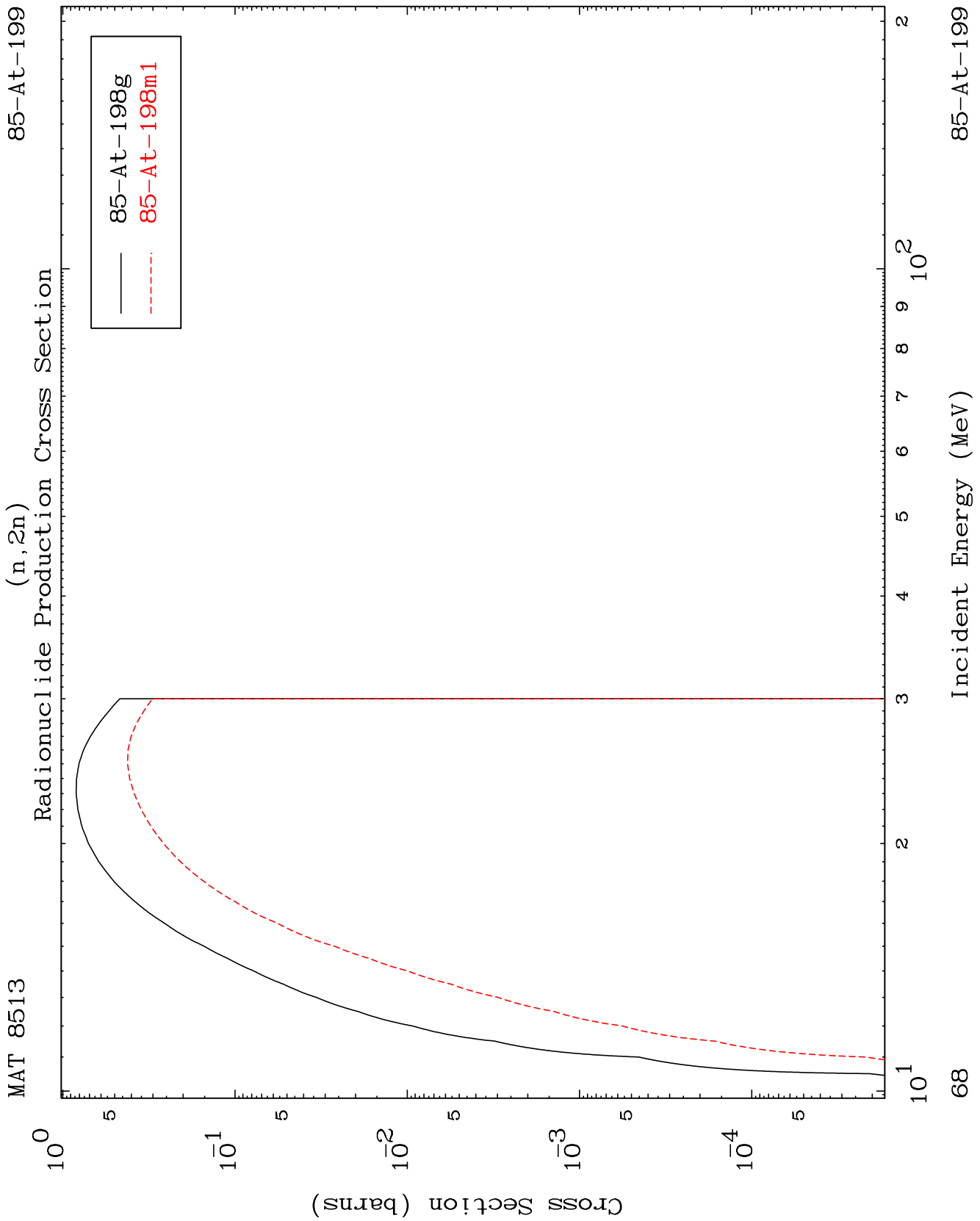


MAT 8513

783.8 keV (n,n') Level  
Legendre Coefficients

85-At-199

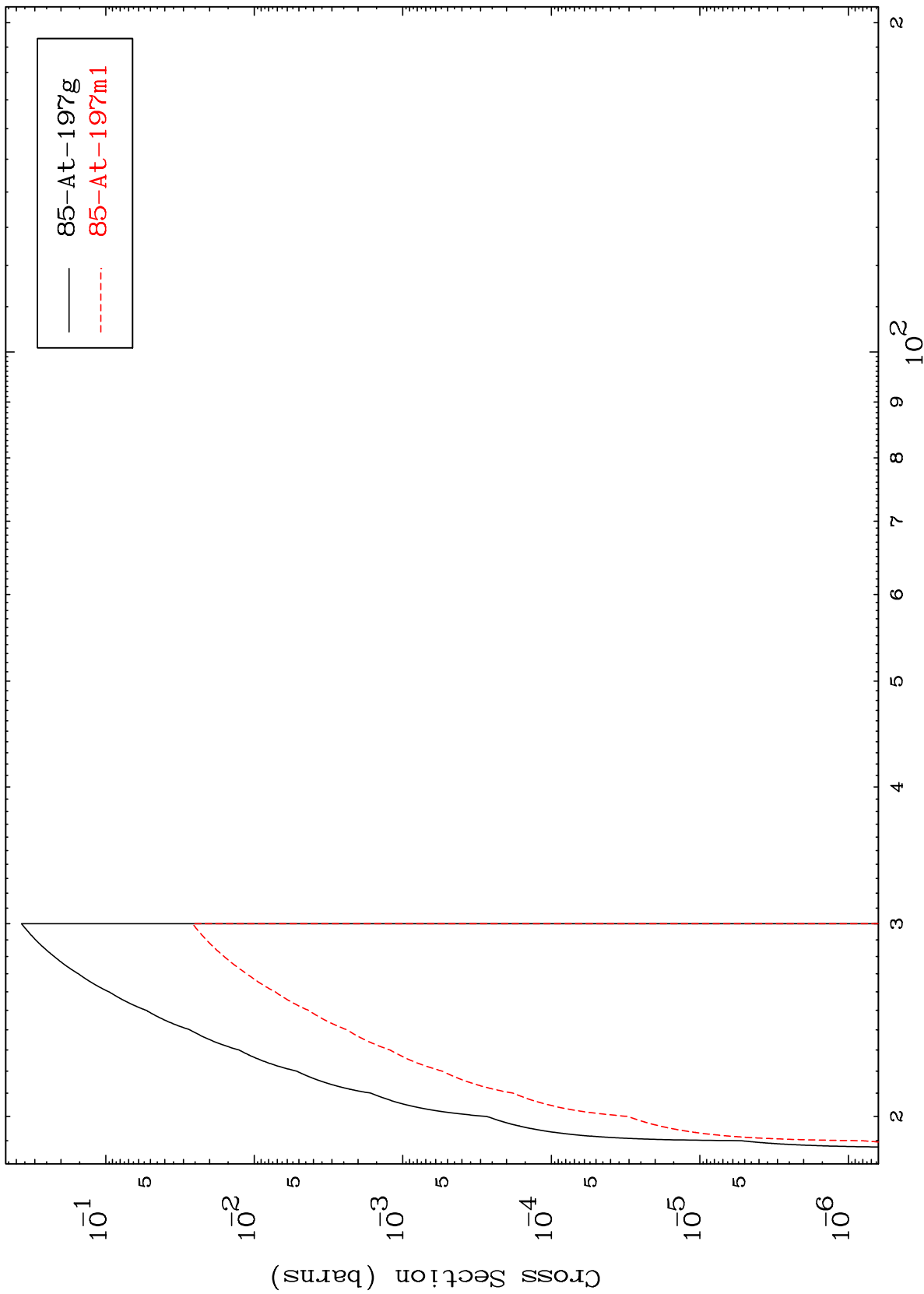




MAT 8513

85-At-199

(n,3n)  
Radionuclide Production Cross Section



69

Incident Energy (MeV)

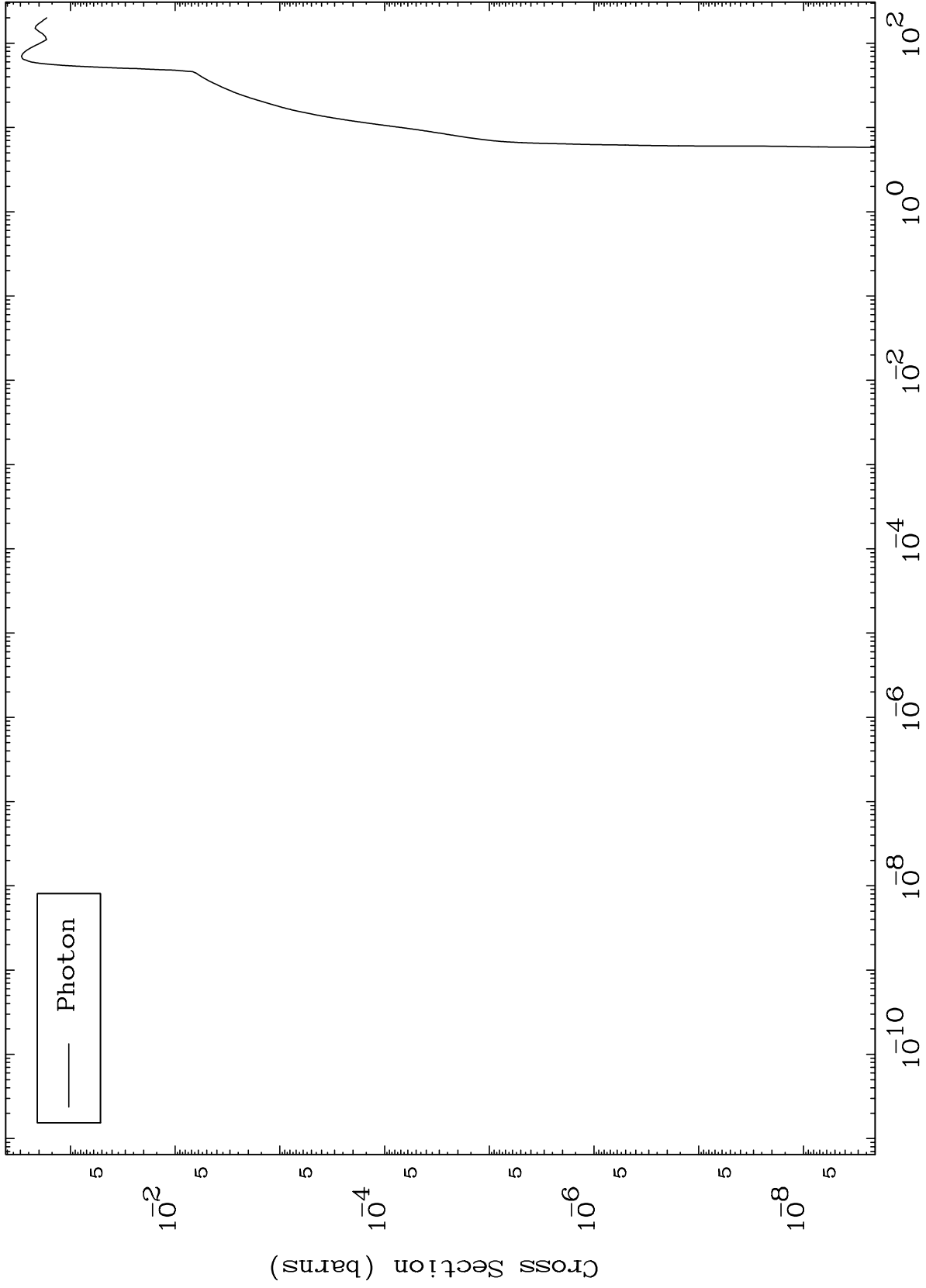
85-At-199

MAT 8513

Fission

85-At-199

Radionuclide Production Cross Section



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Incident Energy (MeV)

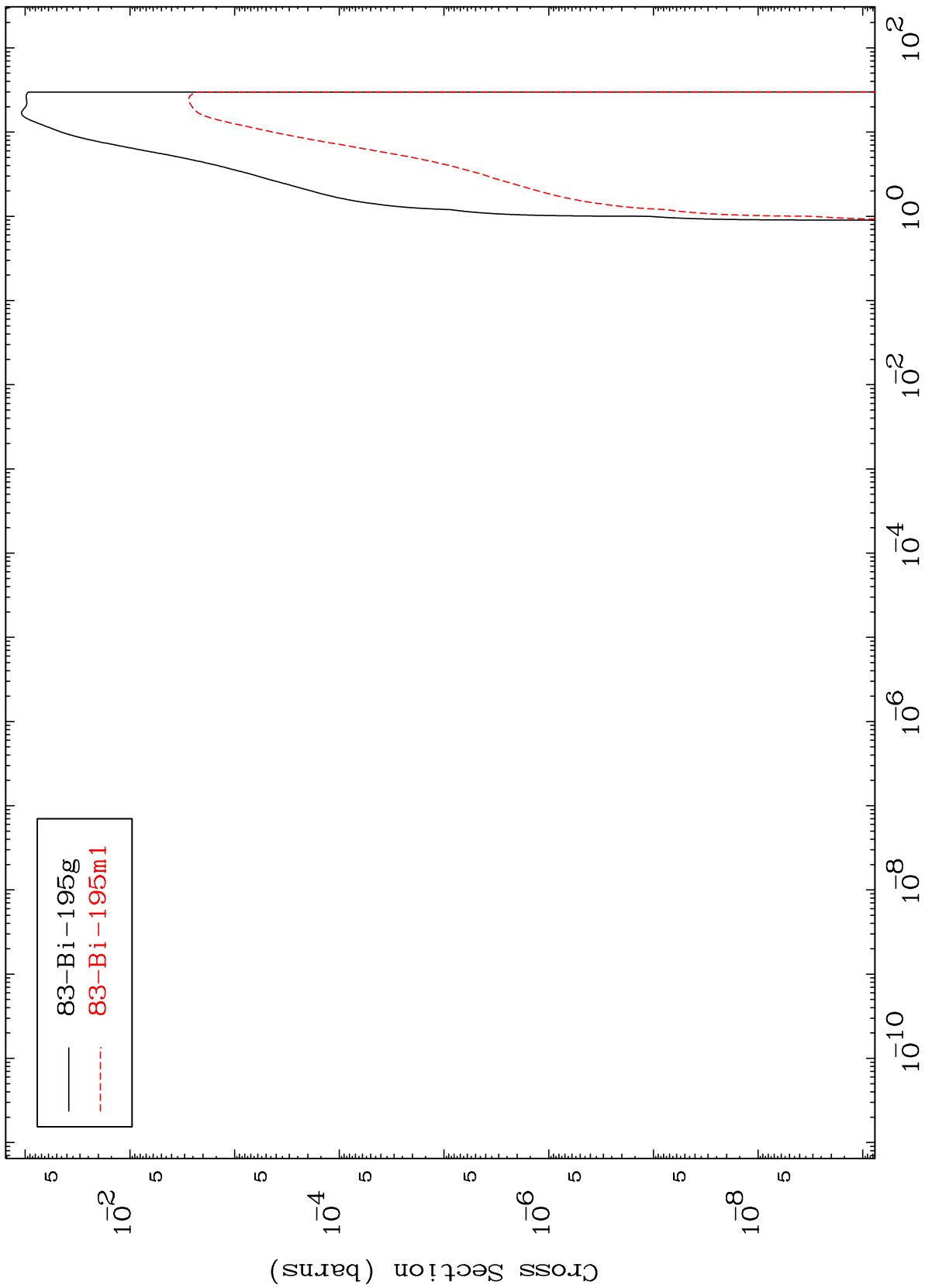
85-At-199

MAT 8513

$(n, n') \alpha$

85-At-199

Radionuclide Production Cross Section



71

Incident Energy (MeV)

85-At-199

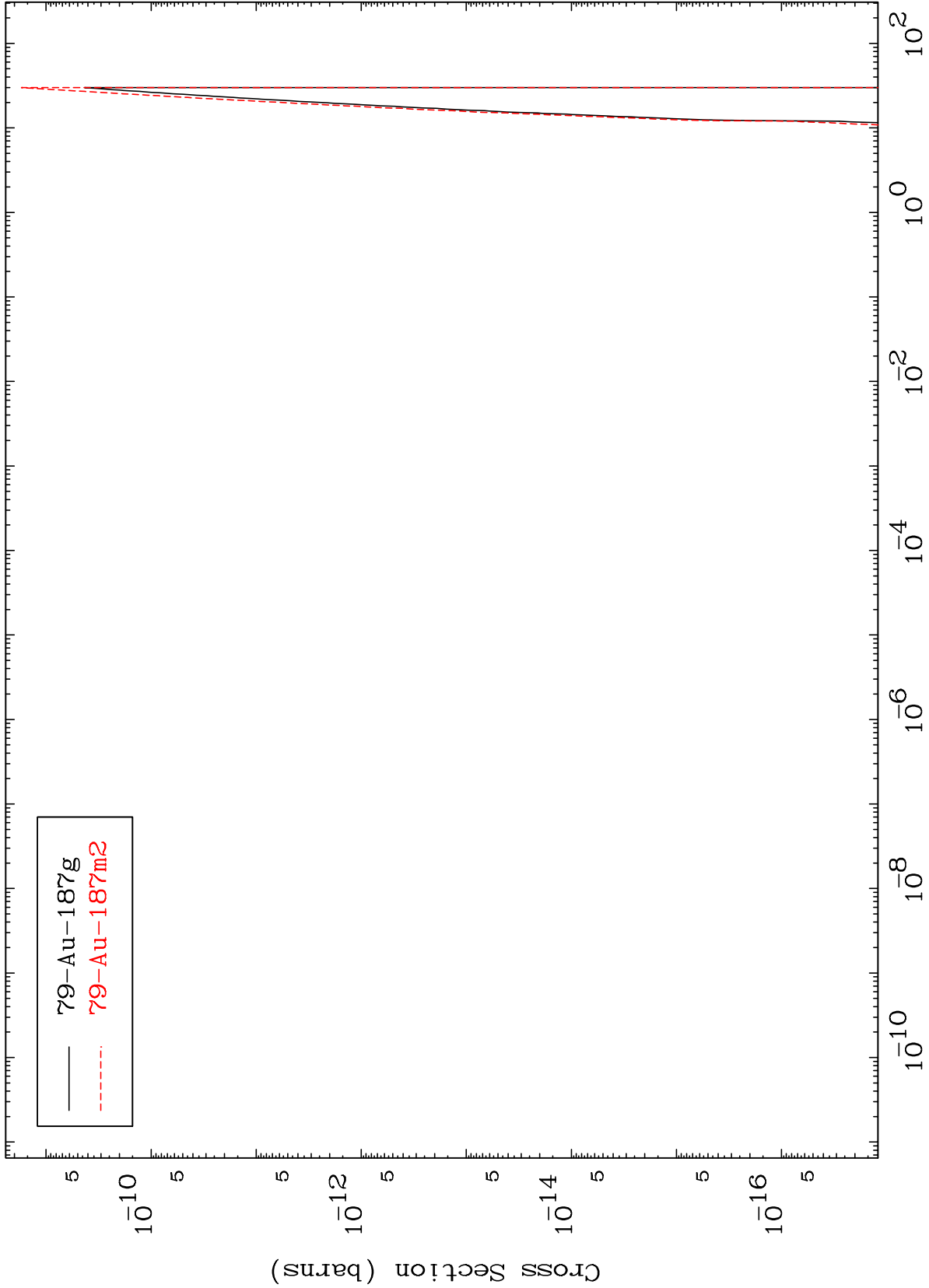


MAT 8513

(n,n') 3 $\alpha$

85-At-199

Radionuclide Production Cross Section



79-Au-187g  
79-Au-187m2

72

Incident Energy (MeV)

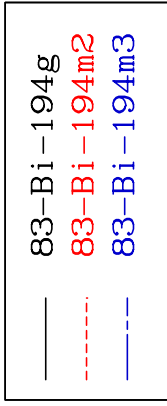
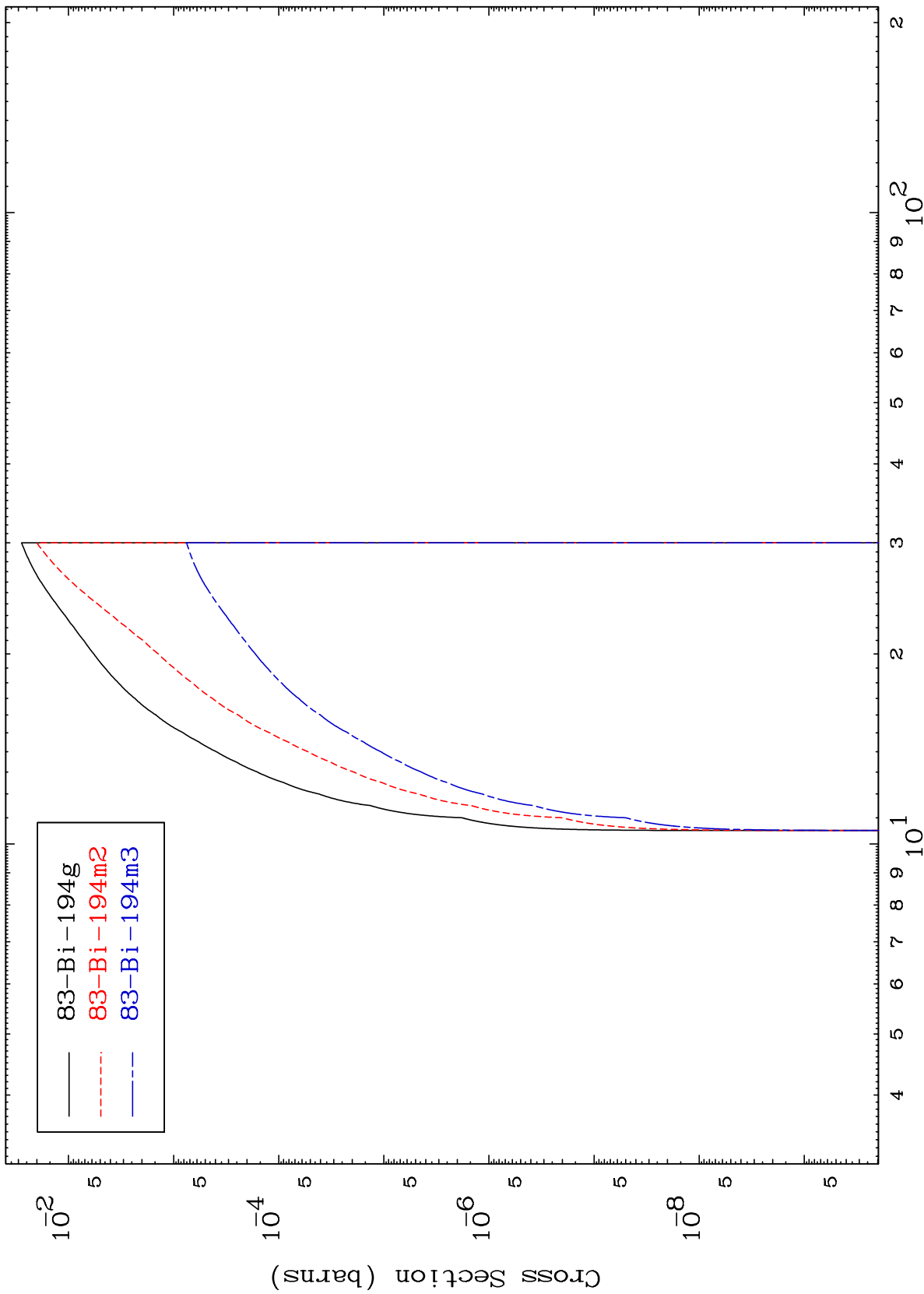
85-At-199

MAT 8513

(n,2n)  $\alpha$

85-At-199

Radionuclide Production Cross Section



73

Incident Energy (MeV)

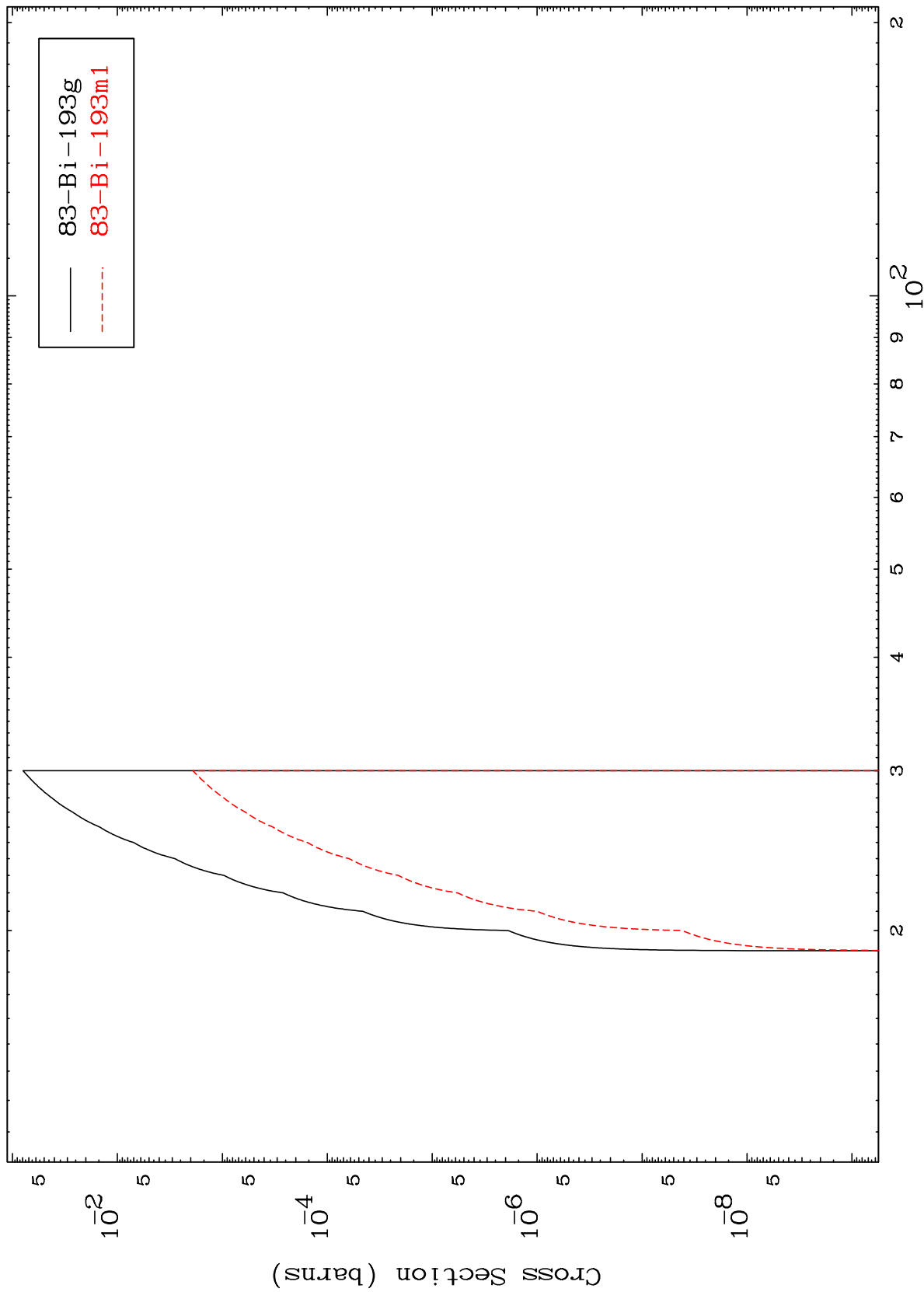
85-At-199

MAT 8513

(n,3n)  $\alpha$

85-At-199

Radionuclide Production Cross Section



74

Incident Energy (MeV)

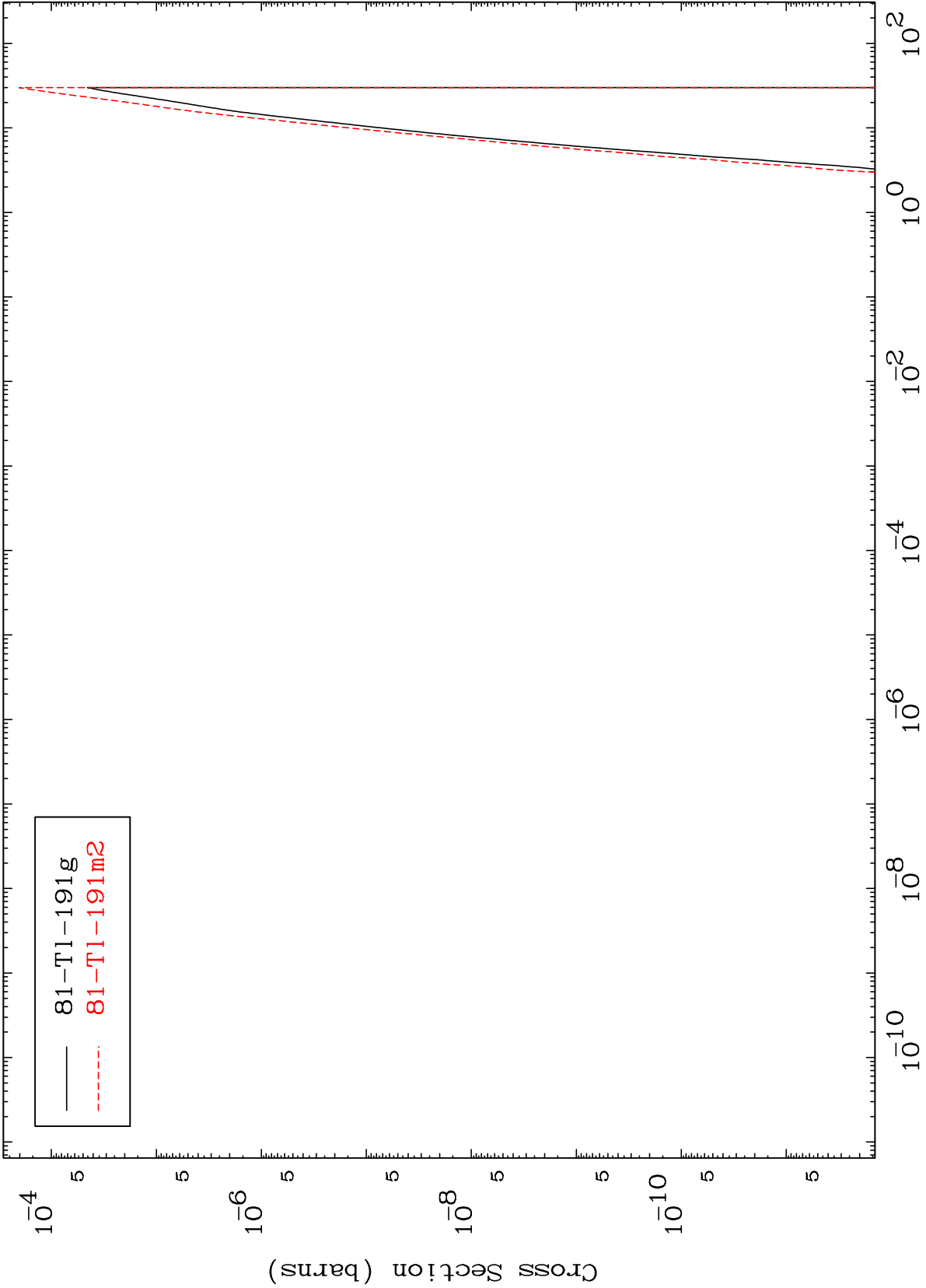
85-At-199

MAT 8513

(n,n') 2α

85-At-199

Radionuclide Production Cross Section



81-Tl-191g  
81-Tl-191m2

75

Incident Energy (MeV)

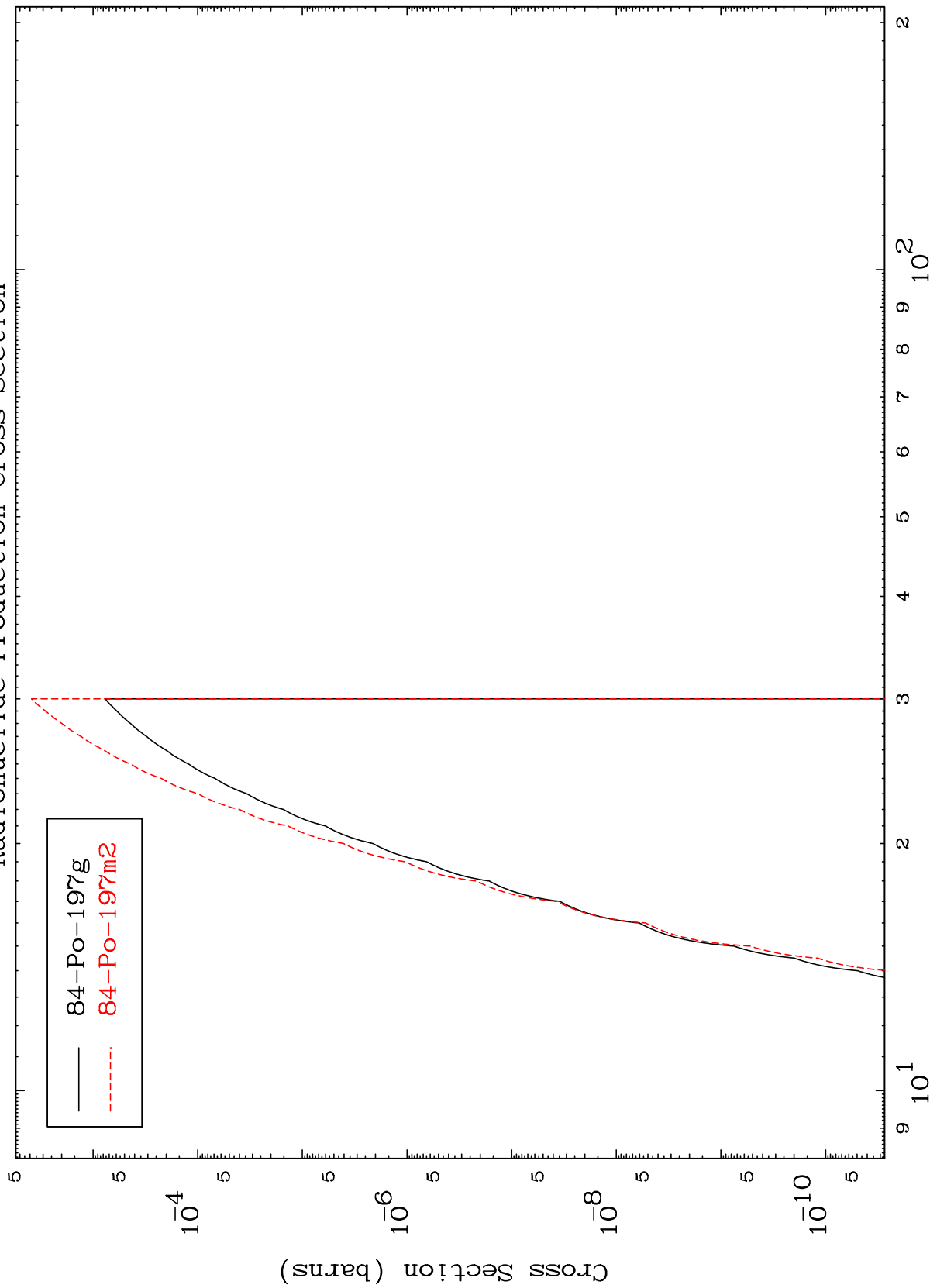
85-At-199

MAT 8513

(n,n') d

85-At-199

Radionuclide Production Cross Section



76

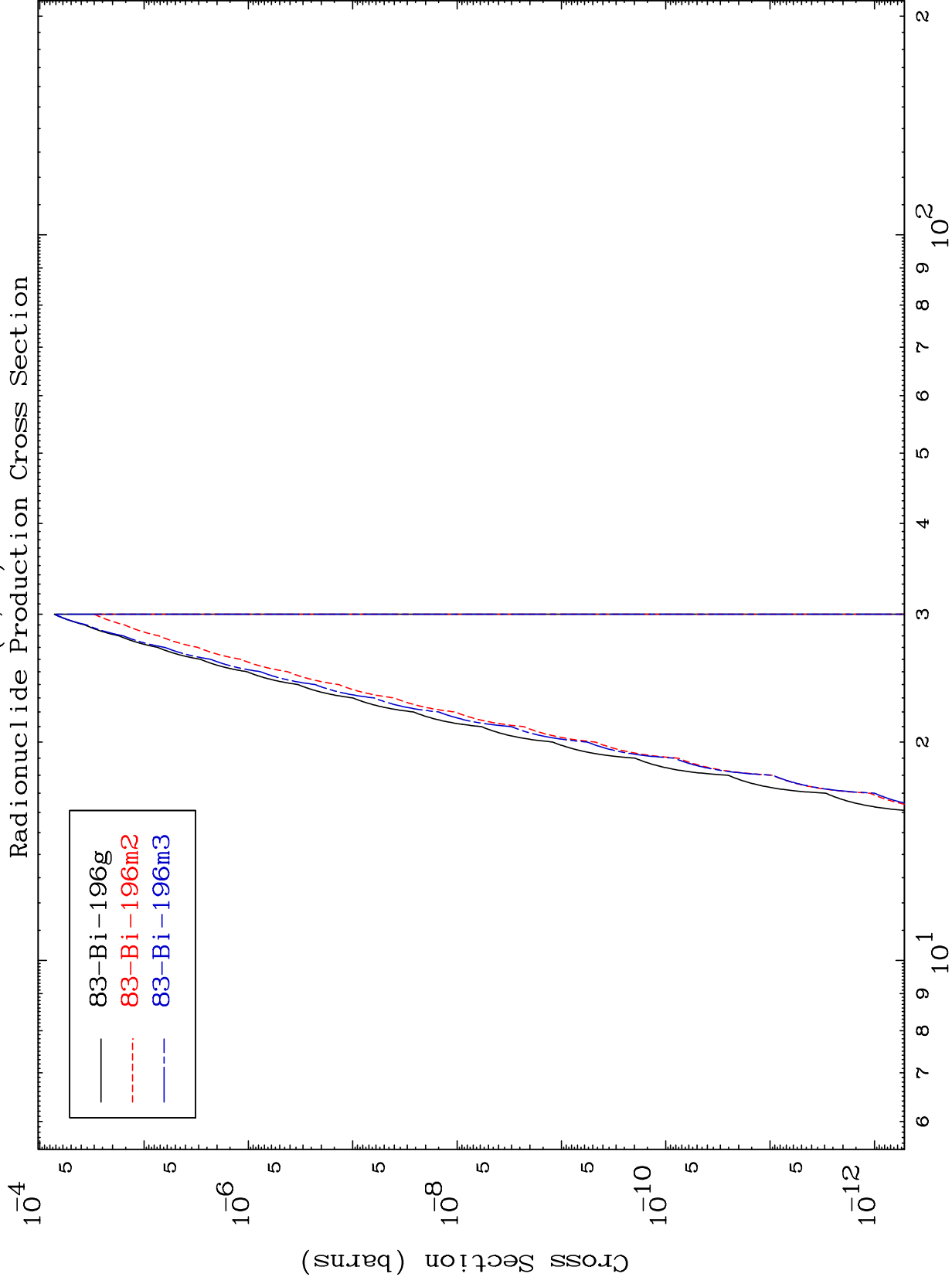
Incident Energy (MeV)

85-At-199

MAT 8513

(n,n') He-3

85-At-199



77

Incident Energy (MeV)

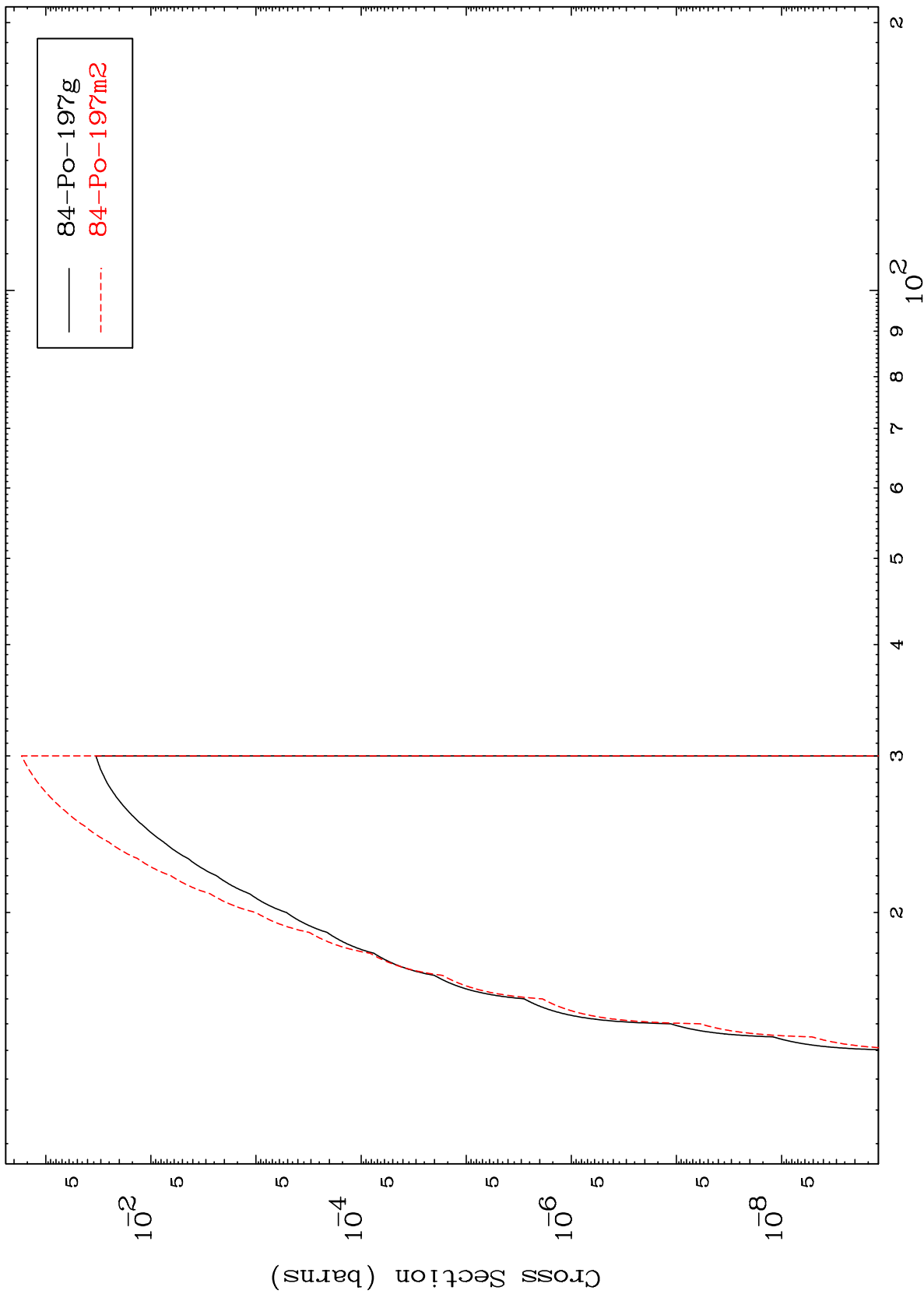
85-At-199

MAT 8513

(n,2n) p

85-At-199

Radionuclide Production Cross Section



78

Incident Energy (MeV)

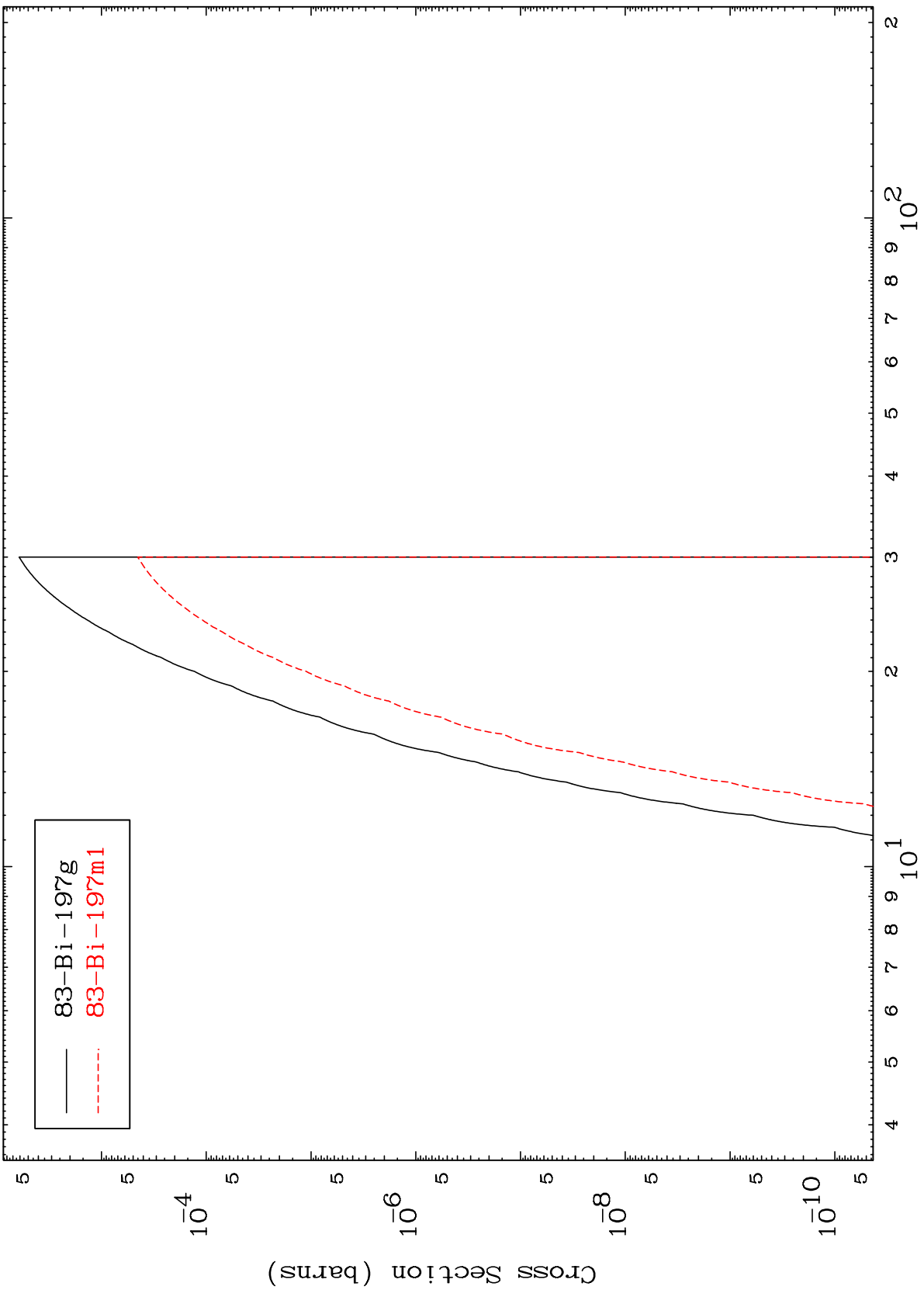
85-At-199

MAT 8513

(n,2n) p

85-At-199

Radionuclide Production Cross Section



83-Bi-197g  
83-Bi-197m1

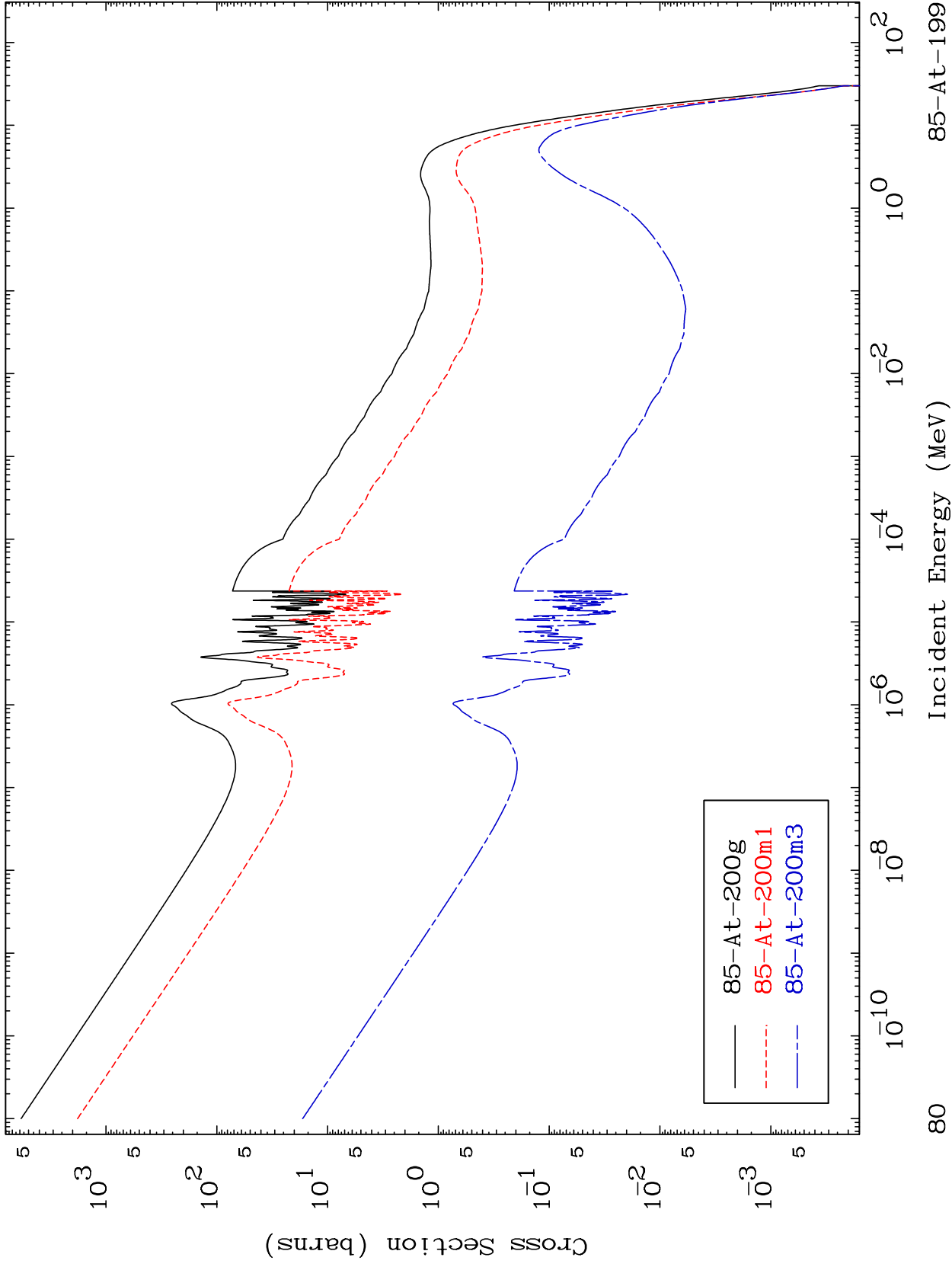
79

Incident Energy (MeV)

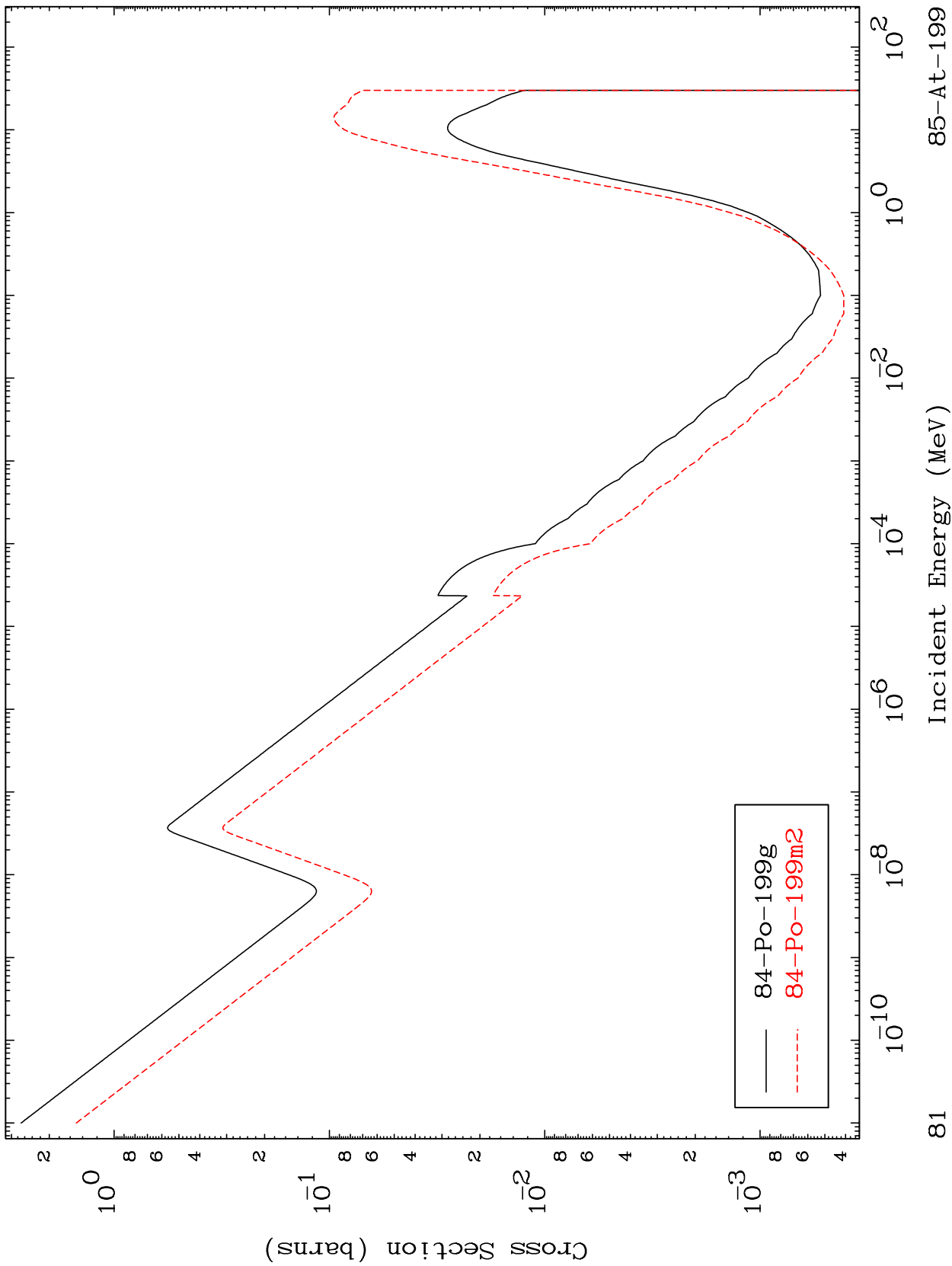
85-At-199



(n,γ)  
Radionuclide Production Cross Section



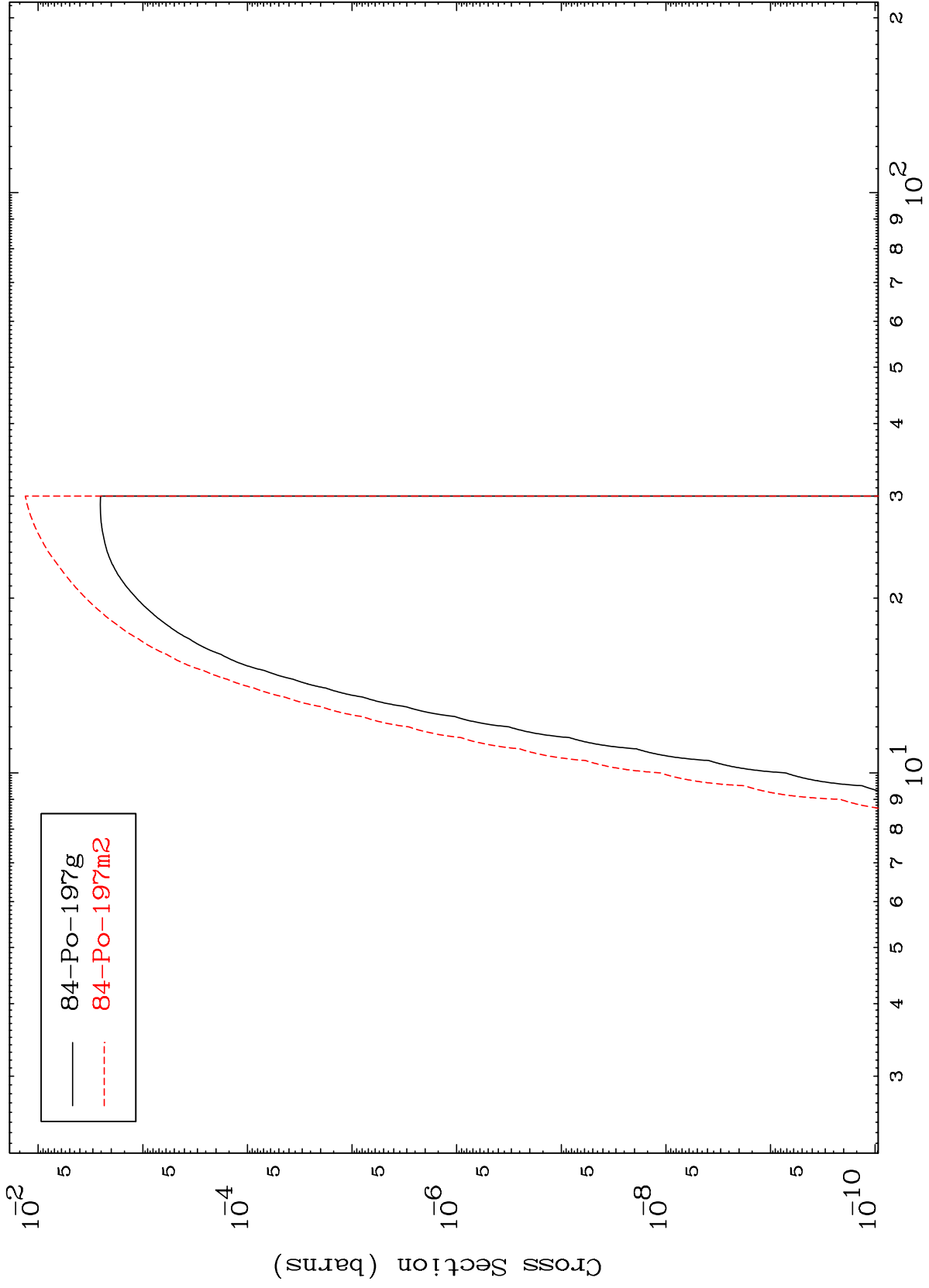
Radionuclide Production Cross Section (n,p)



MAT 8513

85-At-199

(n, t)  
Radionuclide Production Cross Section



82

Incident Energy (MeV)

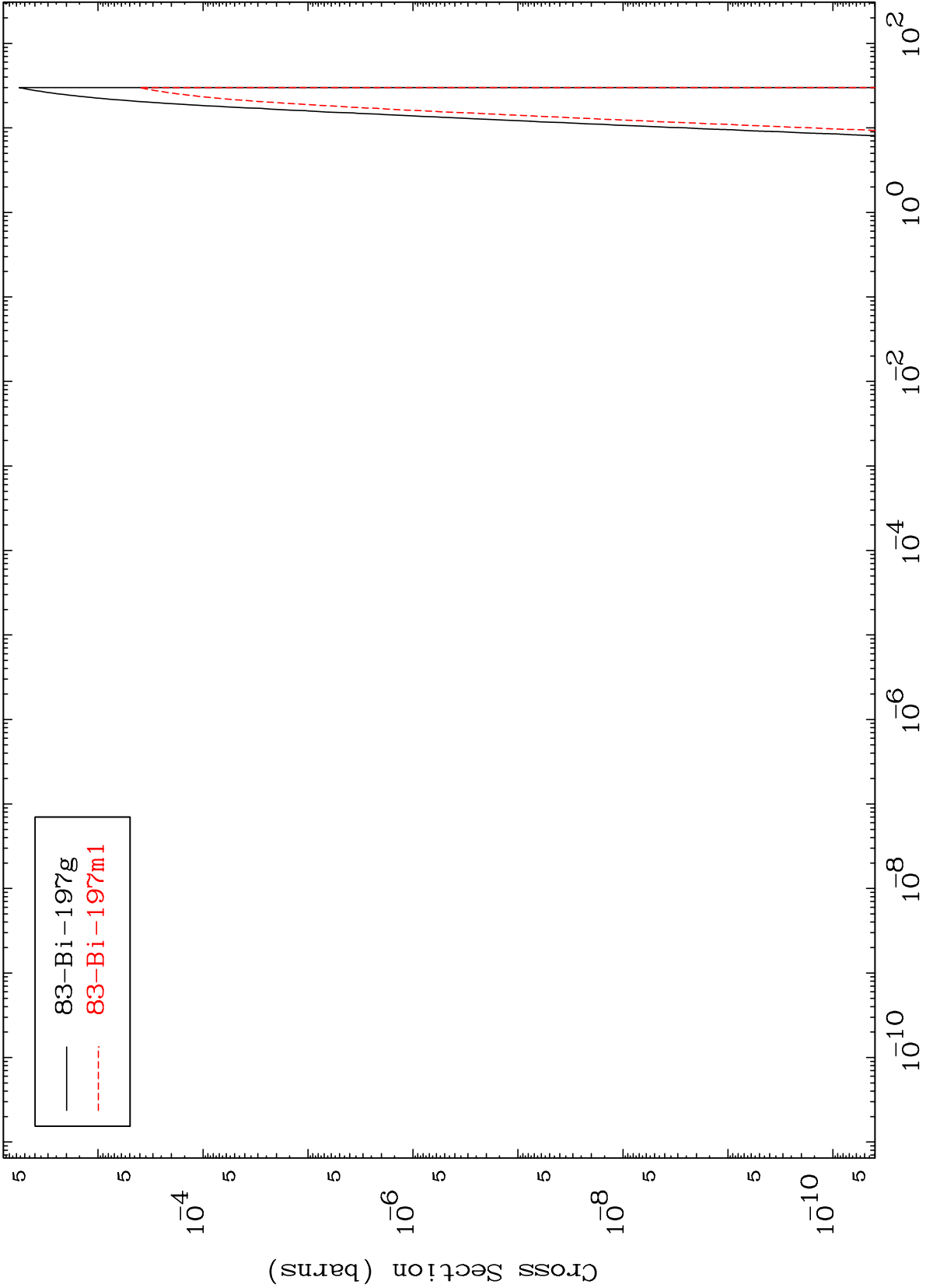
85-At-199

MAT 8513

(n,He-3)

85-At-199

Radionuclide Production Cross Section



83

Incident Energy (MeV)

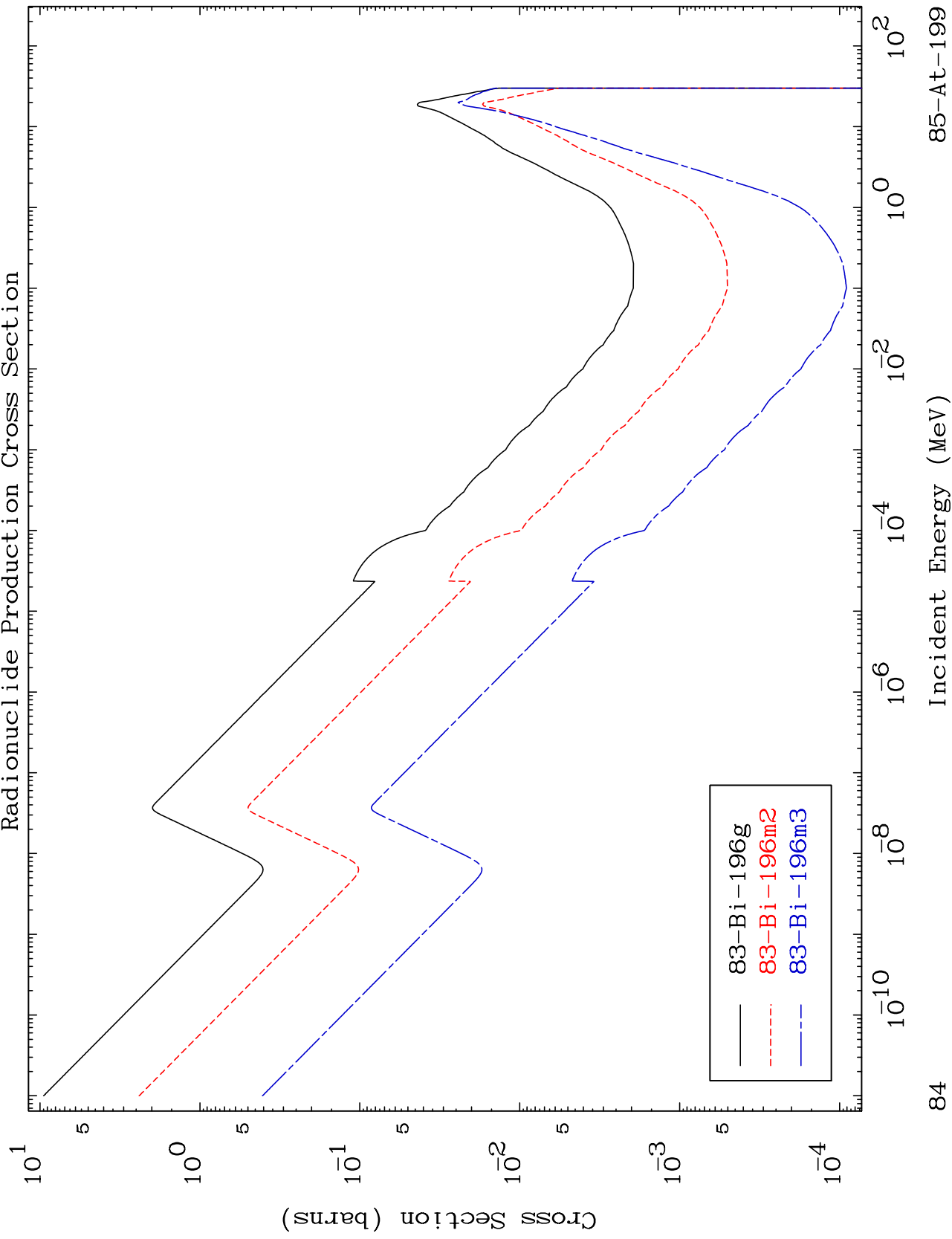
85-At-199

MAT 8513

85-At-199

Radionuclide Production Cross Section

(n,  $\alpha$ )



84

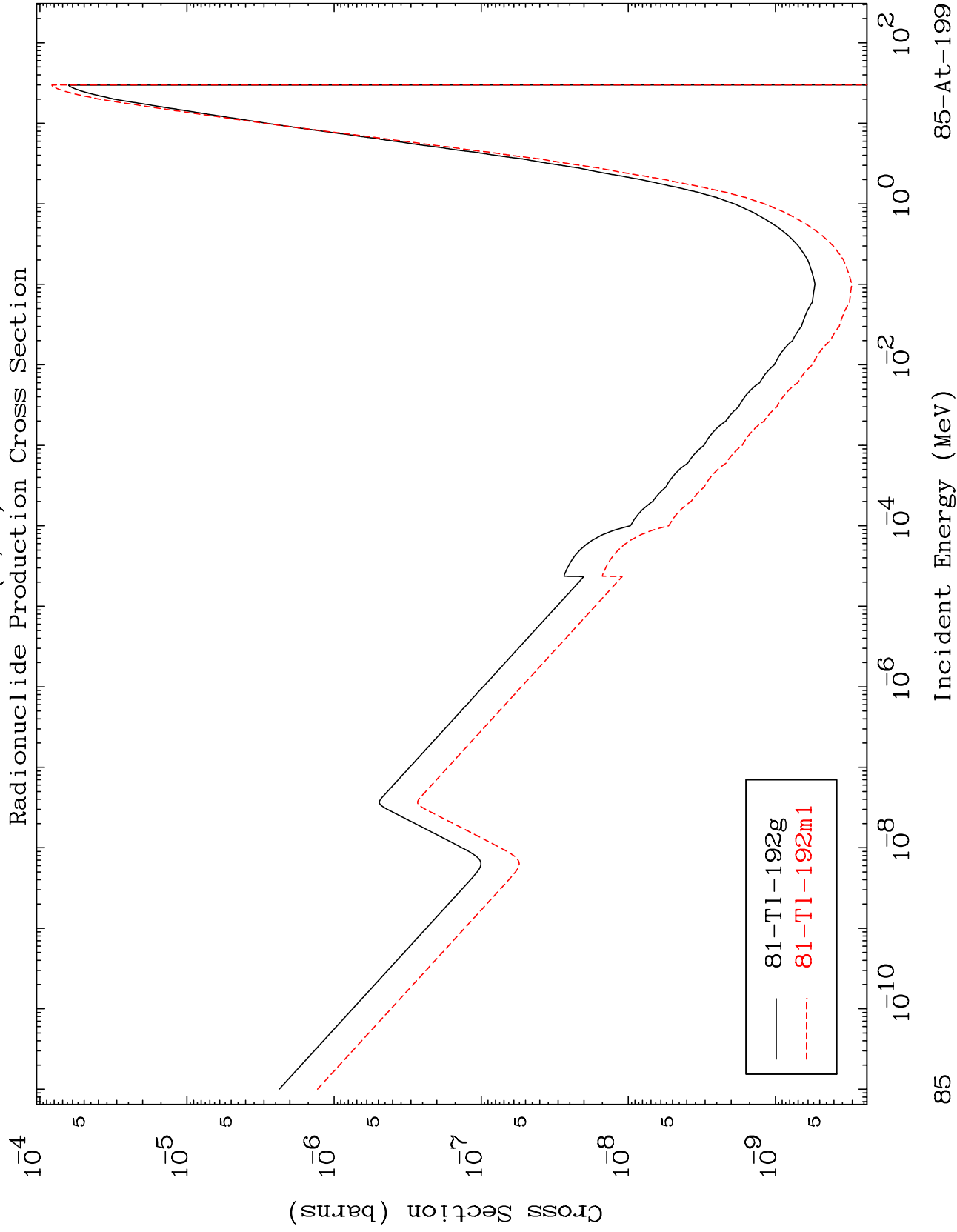
85-At-199

MAT 8513

(n,2α)

85-At-199

Radionuclide Production Cross Section



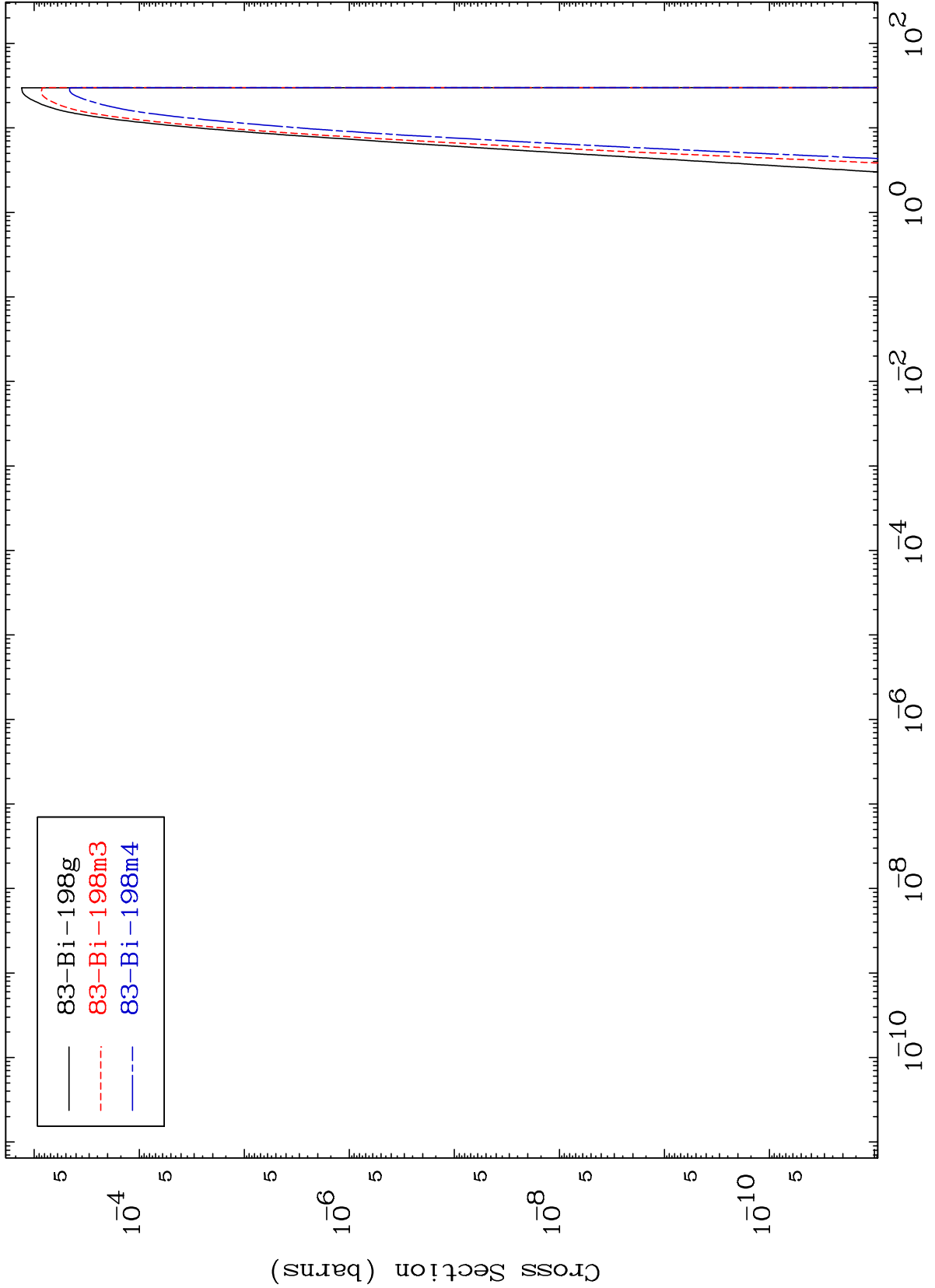
85

MAT 8513

(n,2p)

85-At-199

Radionuclide Production Cross Section



86

Incident Energy (MeV)

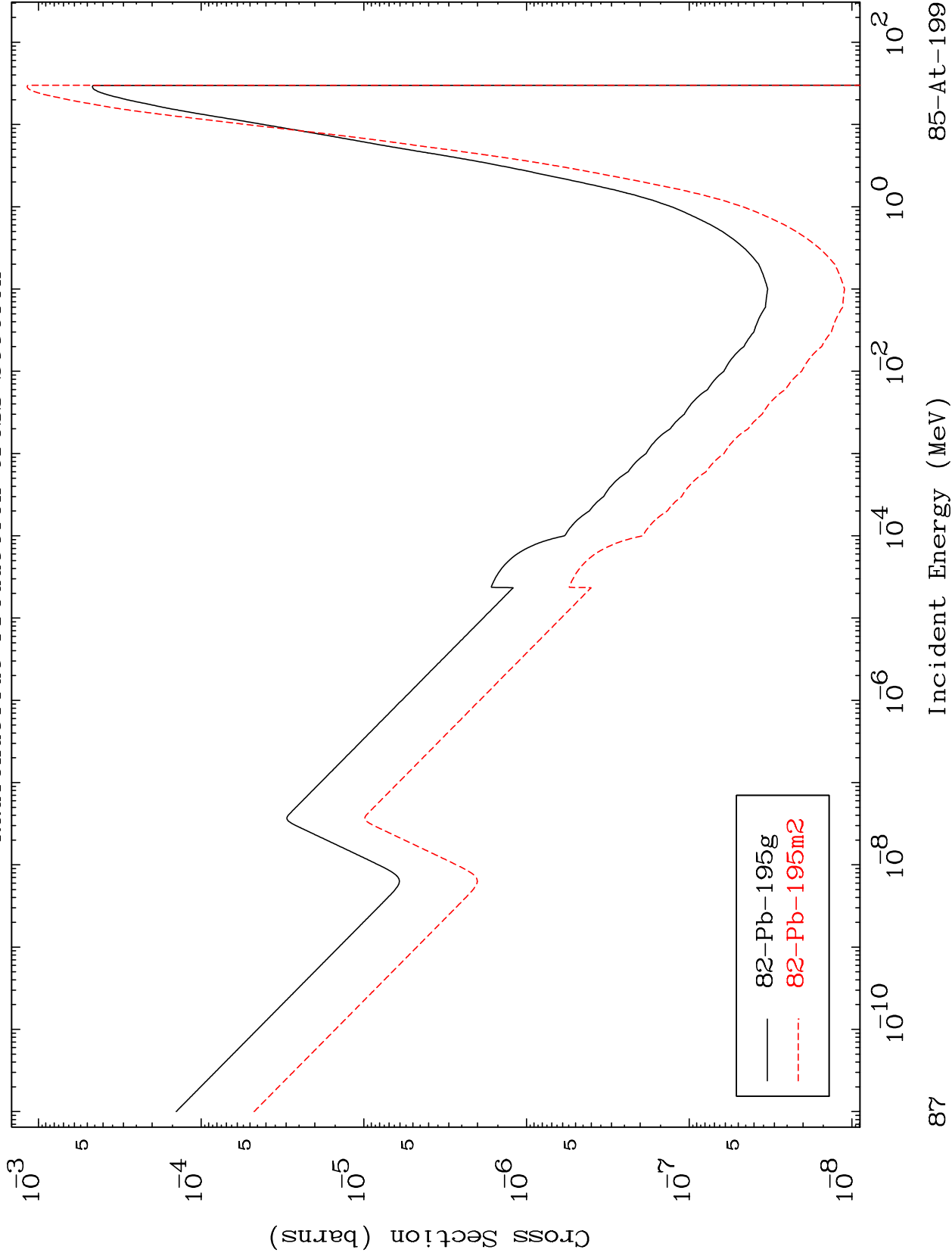
85-At-199

MAT 8513

(n,p)  $\alpha$

85-At-199

Radionuclide Production Cross Section



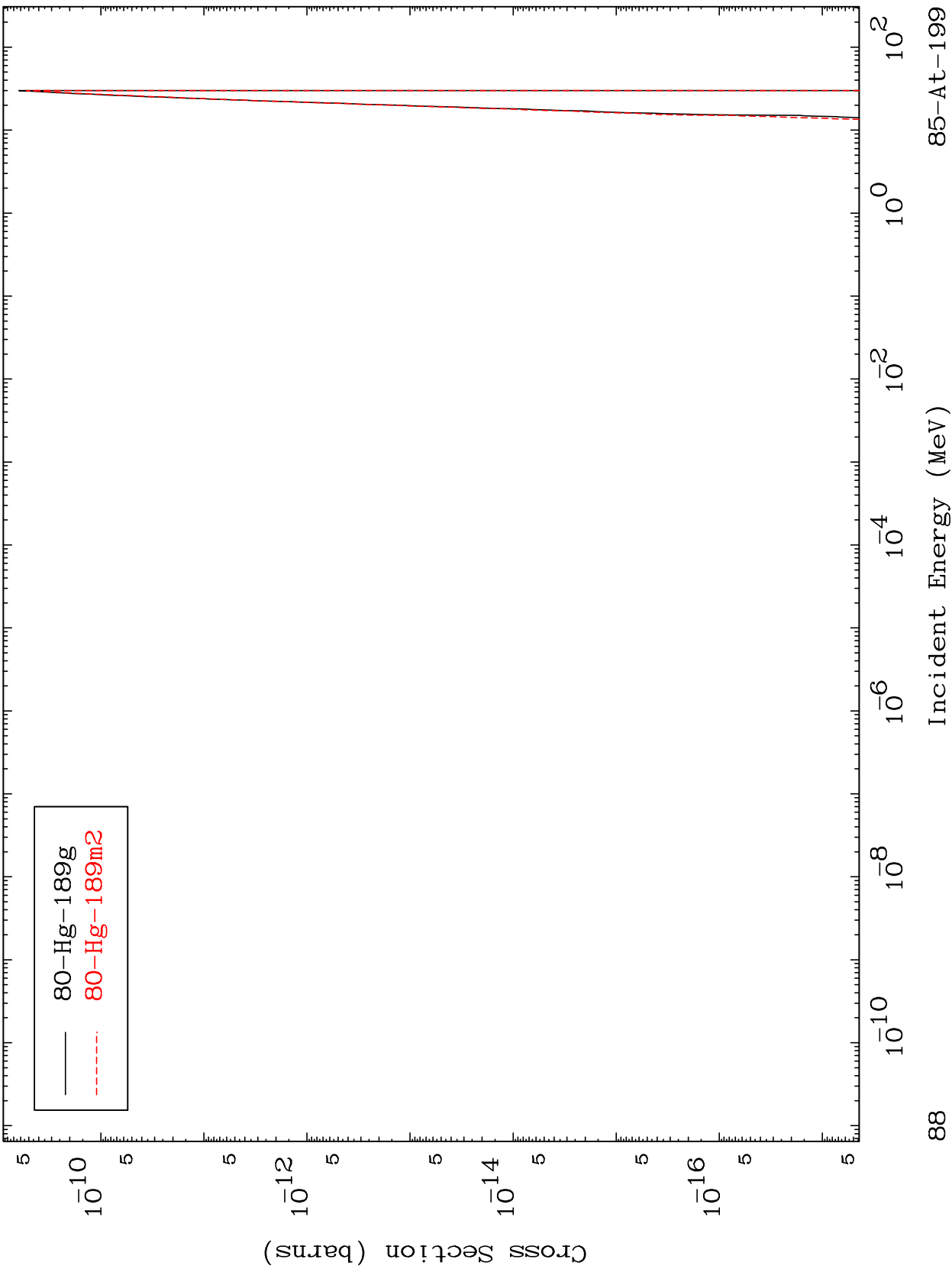


MAT 8513

(n,t) 2 $\alpha$

85-At-199

Radionuclide Production Cross Section



88

Incident Energy (MeV)

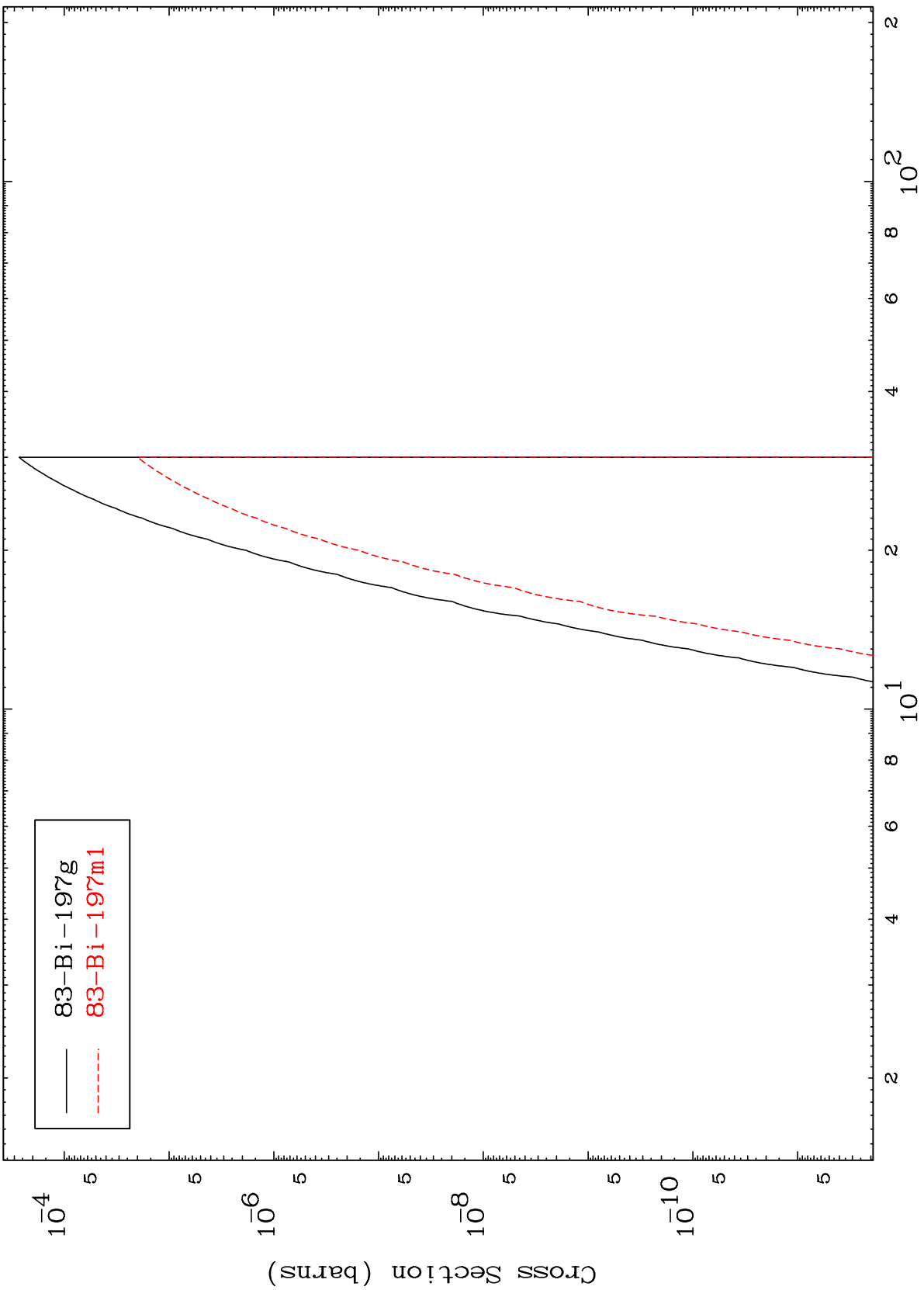
85-At-199

MAT 8513

(n,p) d

85-At-199

Radionuclide Production Cross Section



— 83-Bi-197g  
- - - 83-Bi-197m1

89

Incident Energy (MeV)

85-At-199

Radionuclide Production Cross Section

