

Program EVALPLOT  
(Version 2018-1)

by

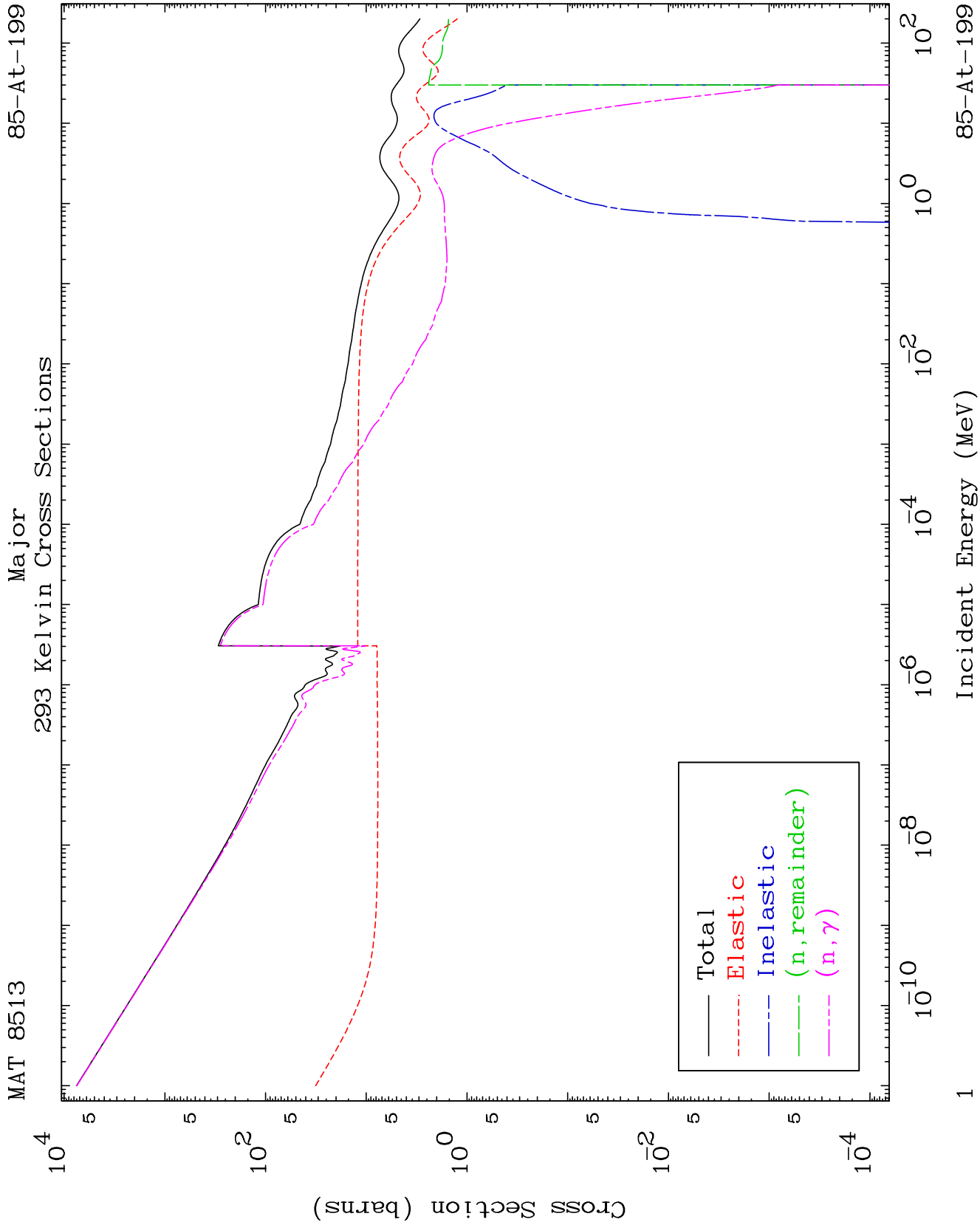
Dermott E. Cullen  
(Present Contact Information)

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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

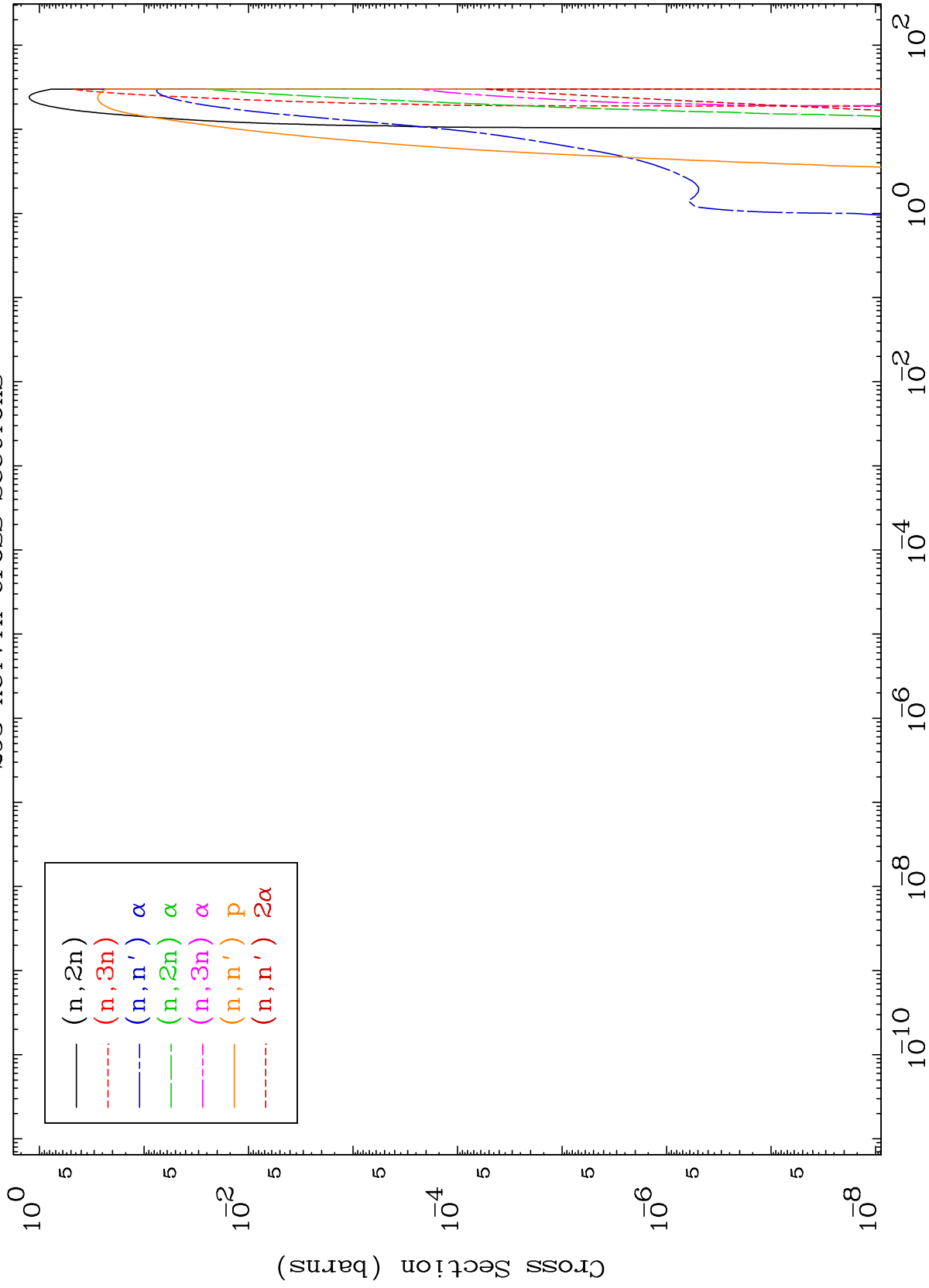
Press Mouse Button to Start



MAT 8513

Neutron Production  
293 Kelvin Cross Sections

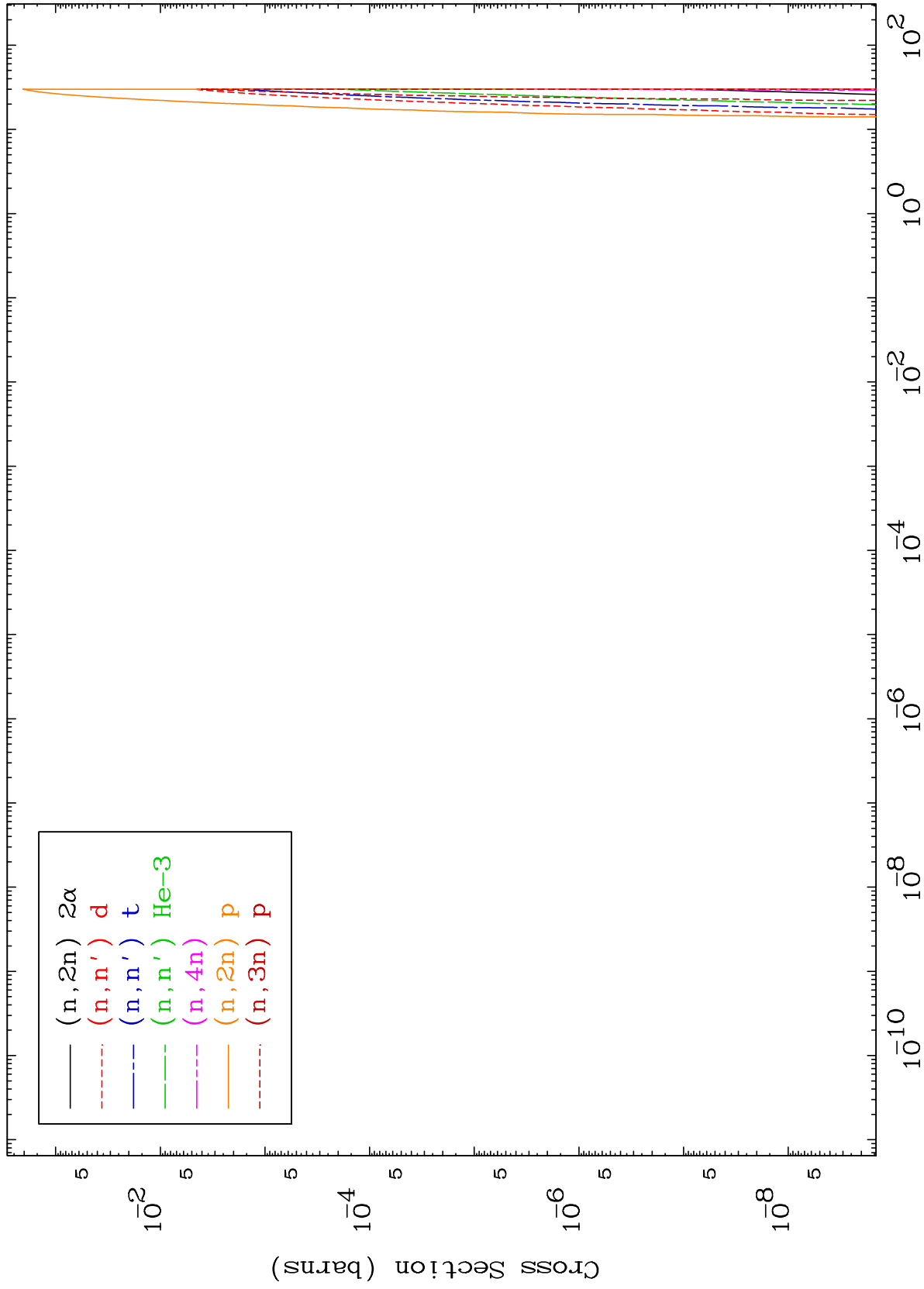
85-At-199



MAT 8513

Neutron Production  
293 Kelvin Cross Sections

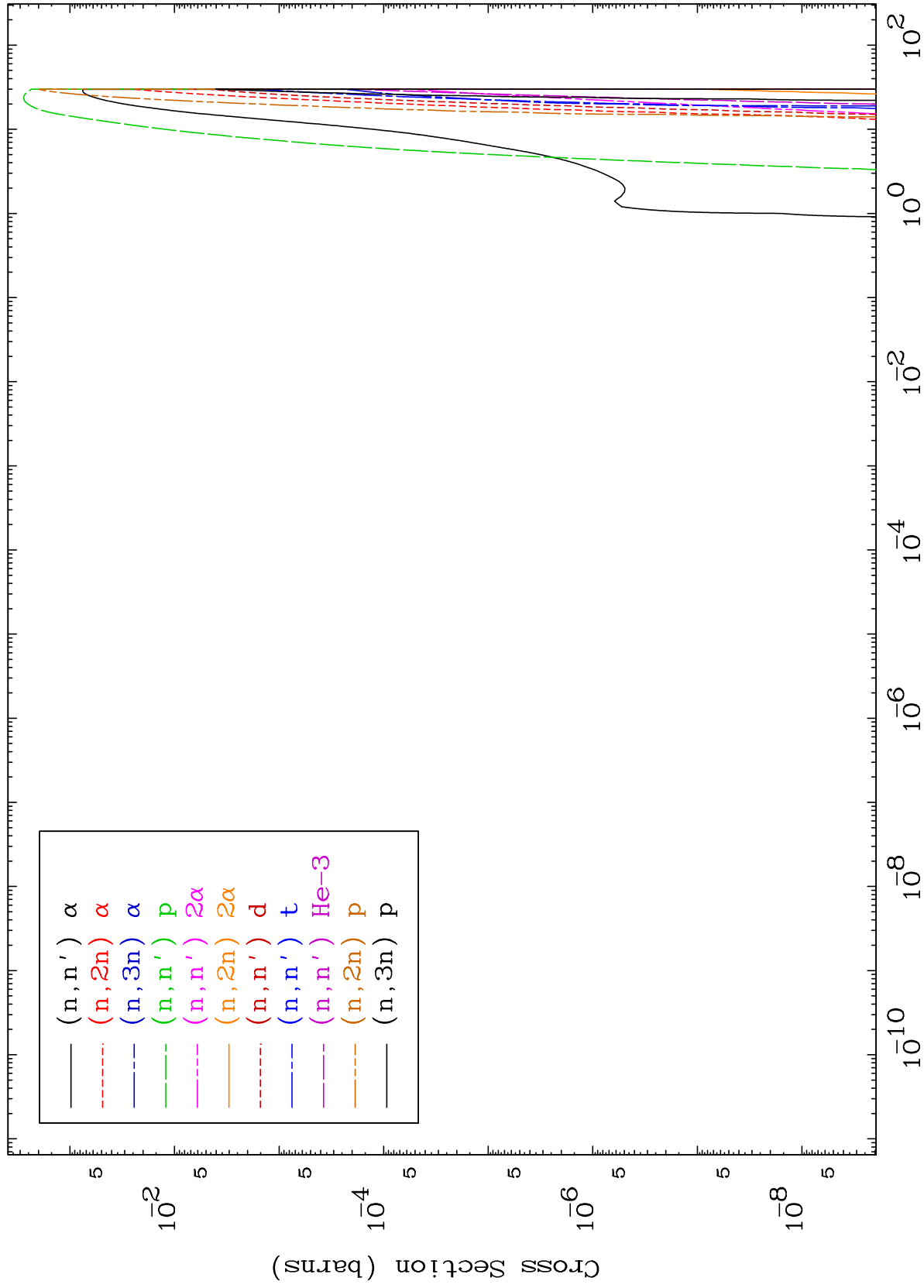
85-At-199



3

Incident Energy (MeV)

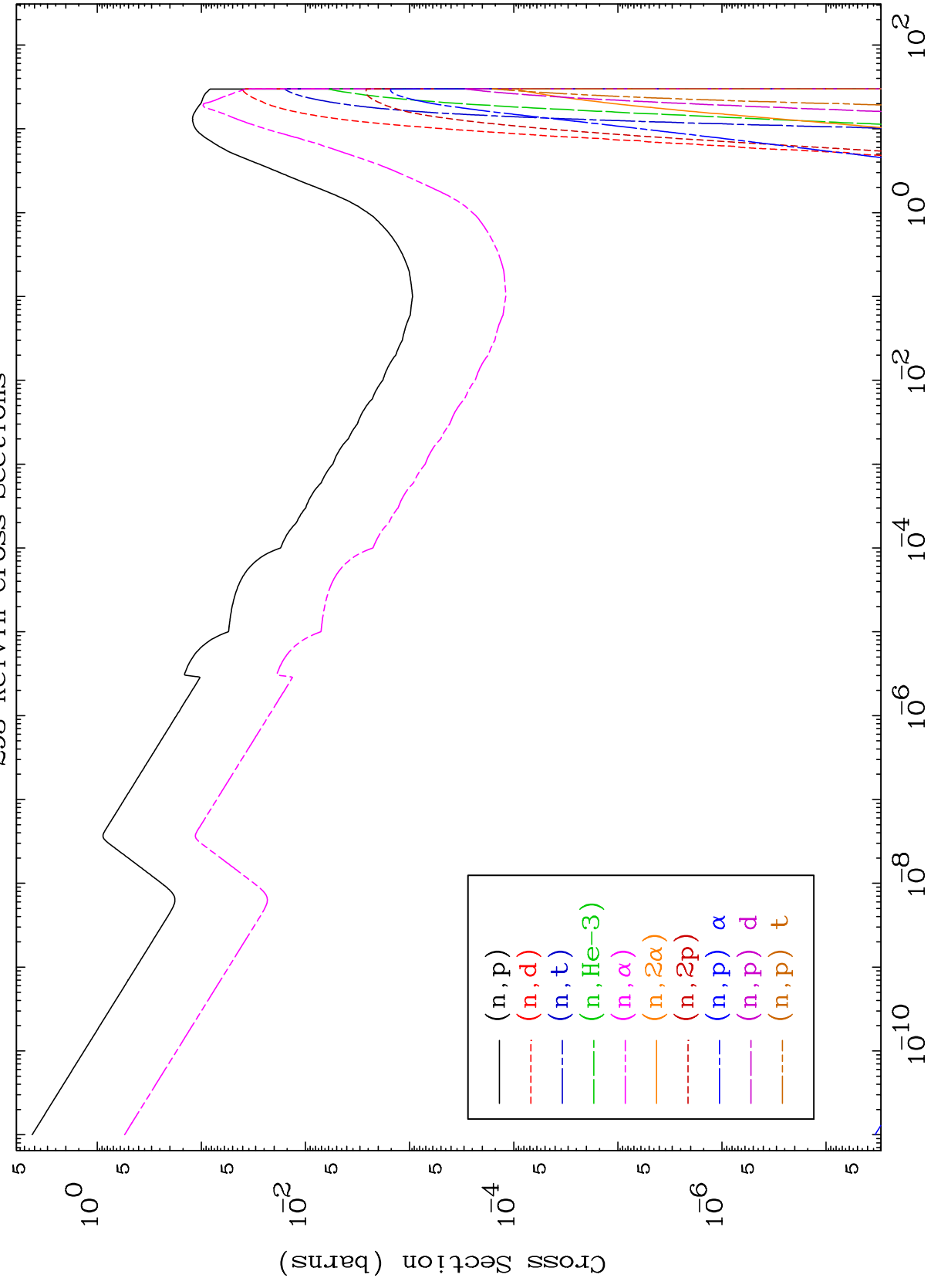
85-At-199



MAT 8513

Charged Particle  
293 Kelvin Cross Sections

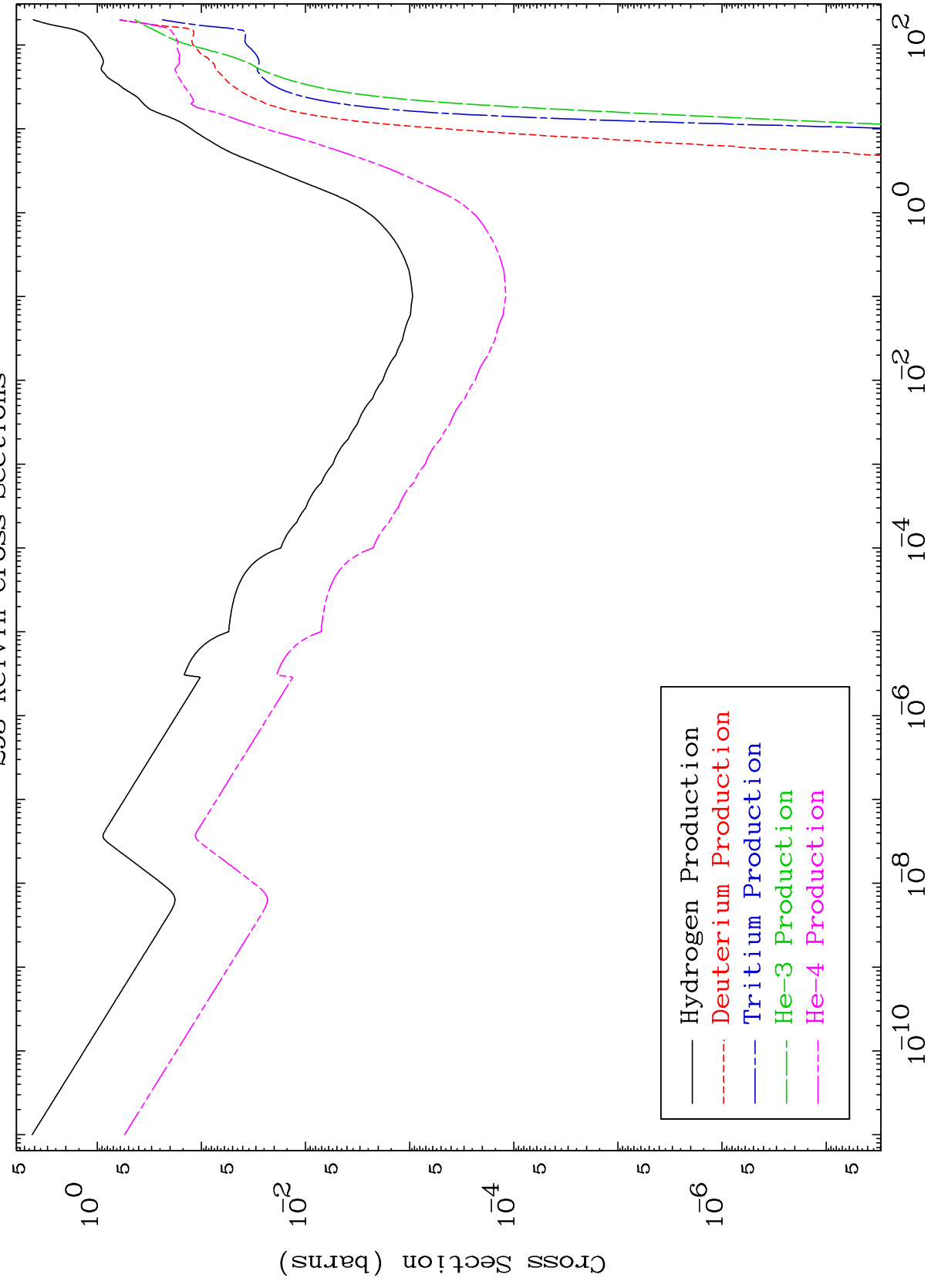
85-At-199



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Incident Energy (MeV)

85-At-199

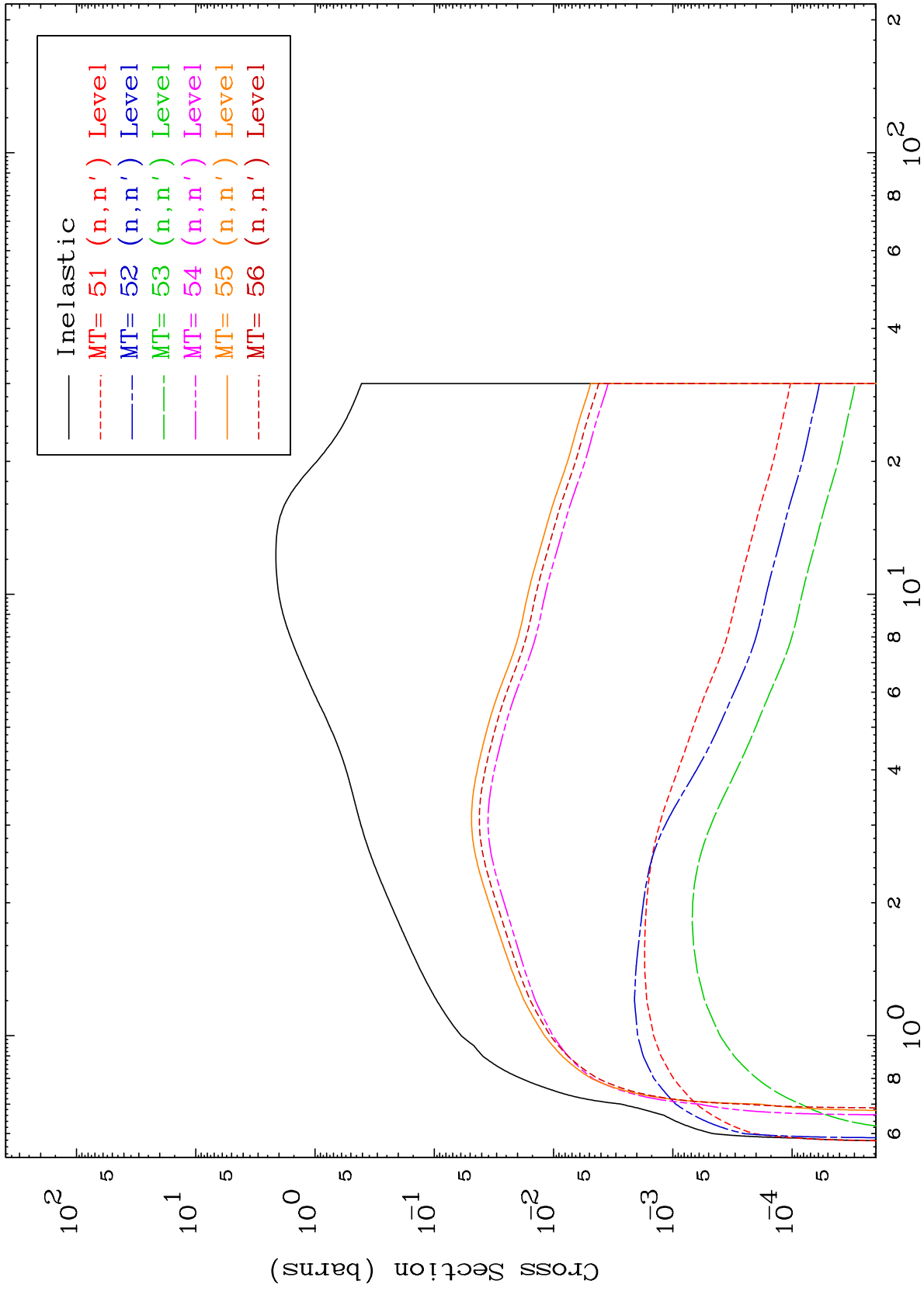


MAT 8513

(n,n') Level

85-At-199

293 Kelvin Cross Sections

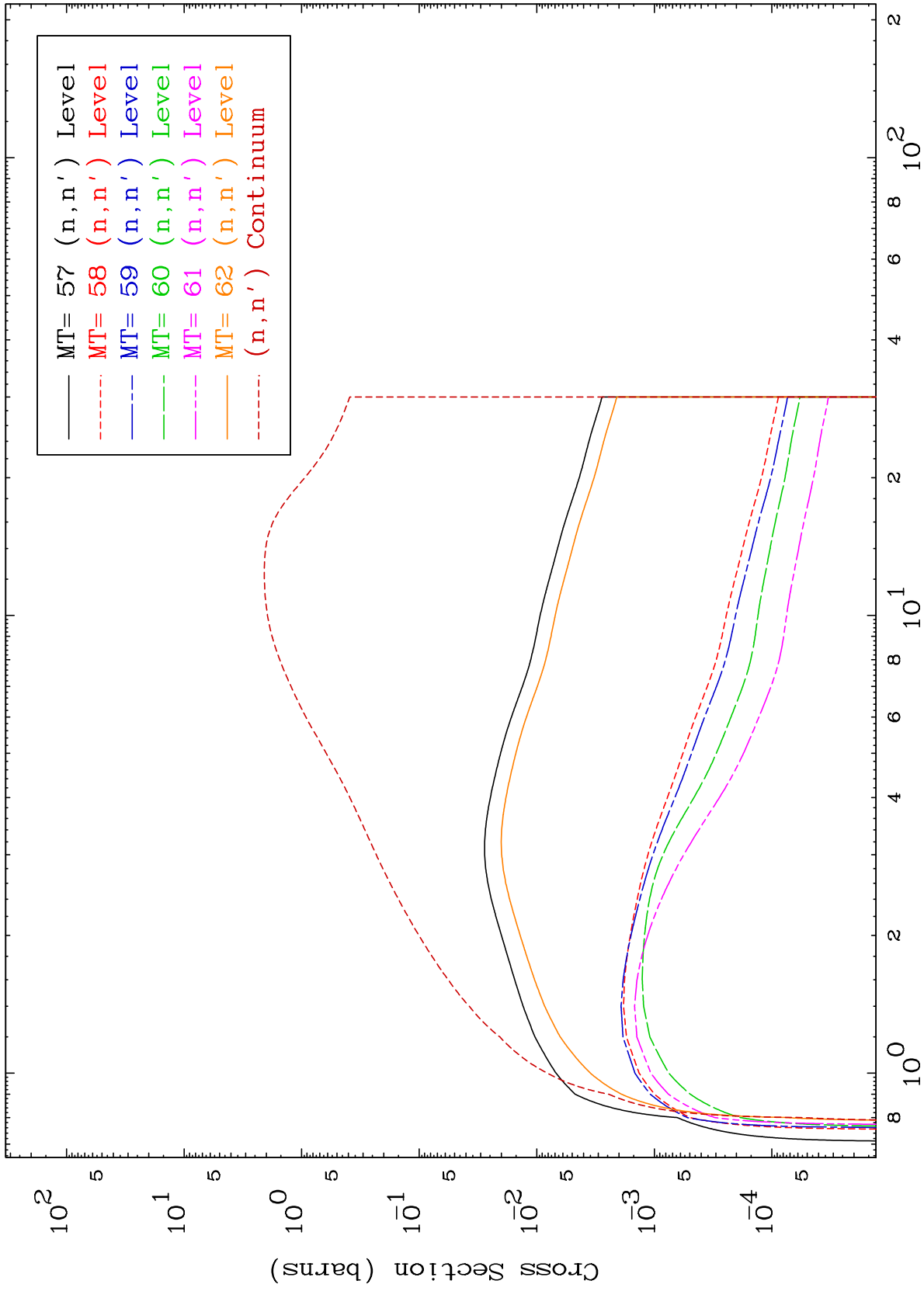


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Incident Energy (MeV)

85-At-199

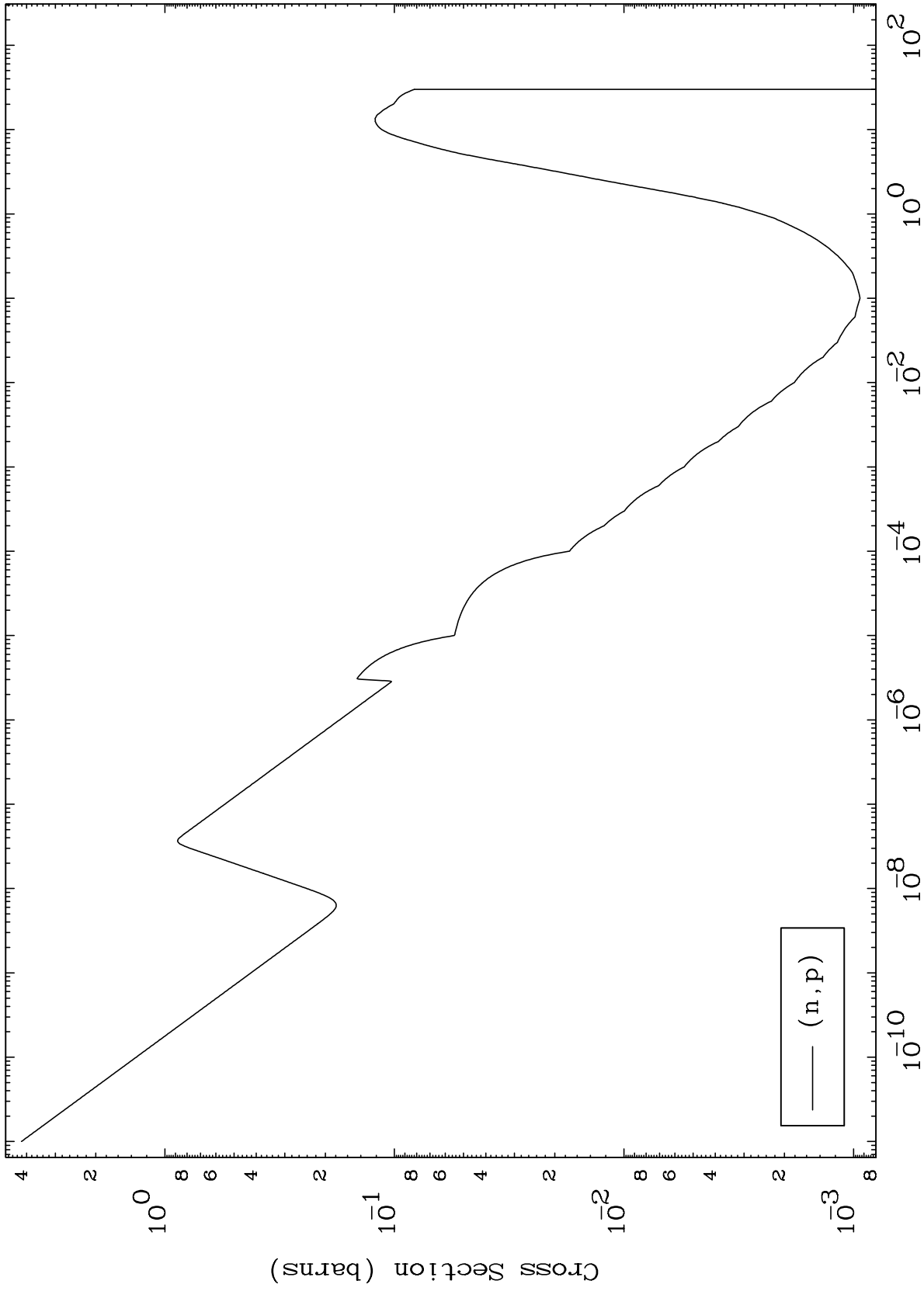




MAT 8513

(n,p) Levels  
293 Kelvin Cross Sections

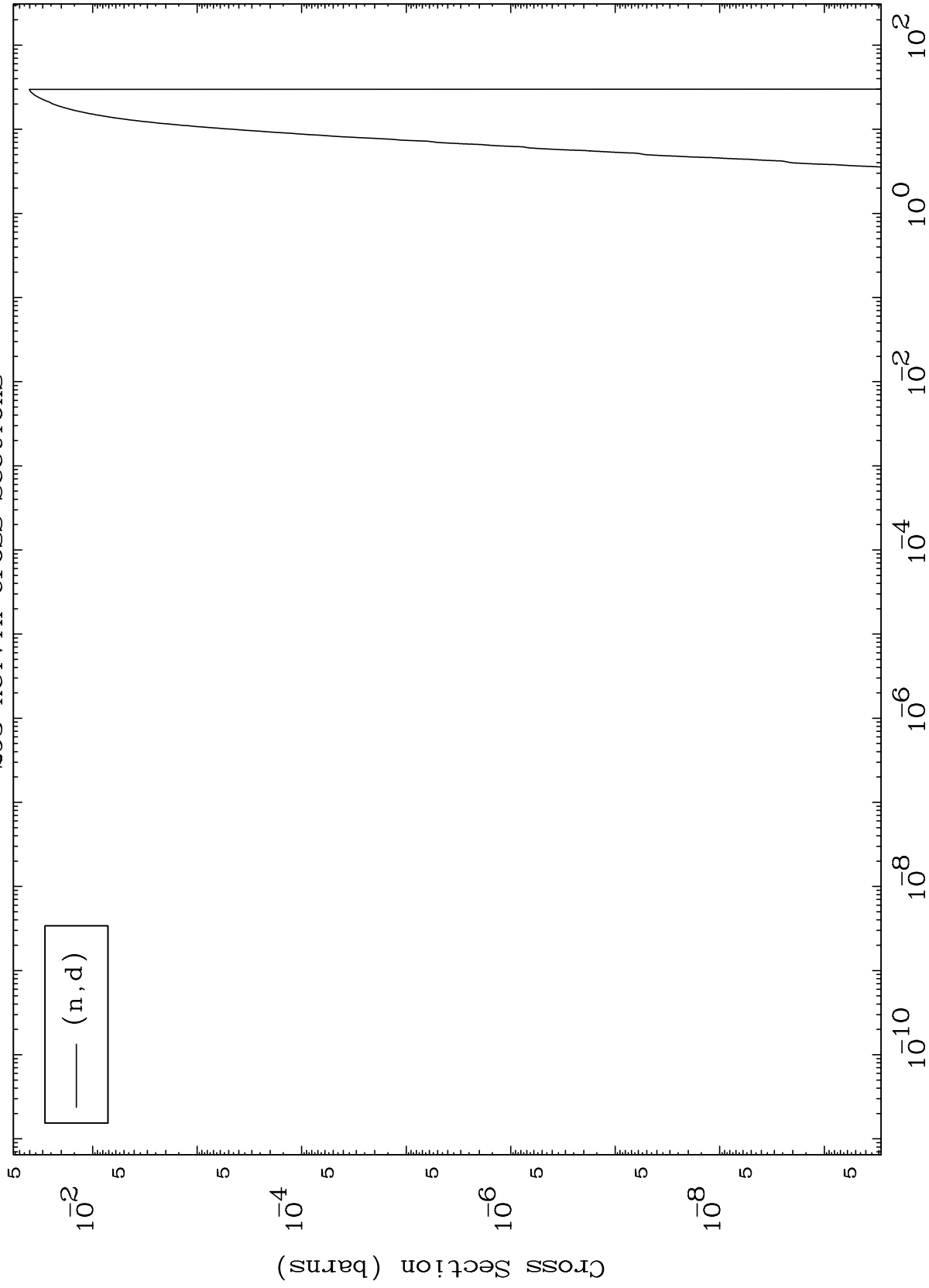
85-At-199



MAT 8513

(n,d) Levels  
293 Kelvin Cross Sections

85-At-199



10

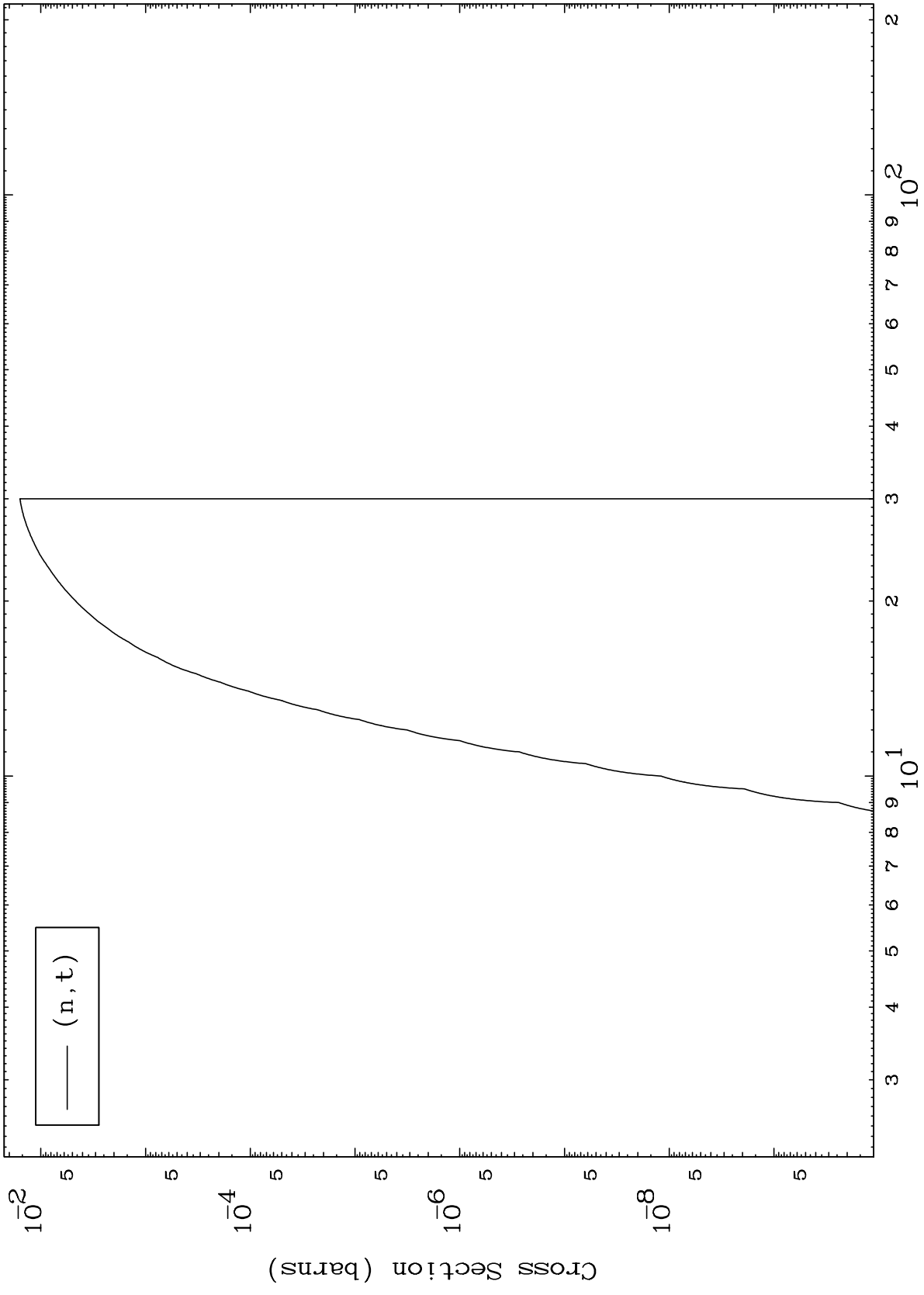
Incident Energy (MeV)

85-At-199

MAT 8513

(n,t) Levels  
293 Kelvin Cross Sections

85-At-199



11

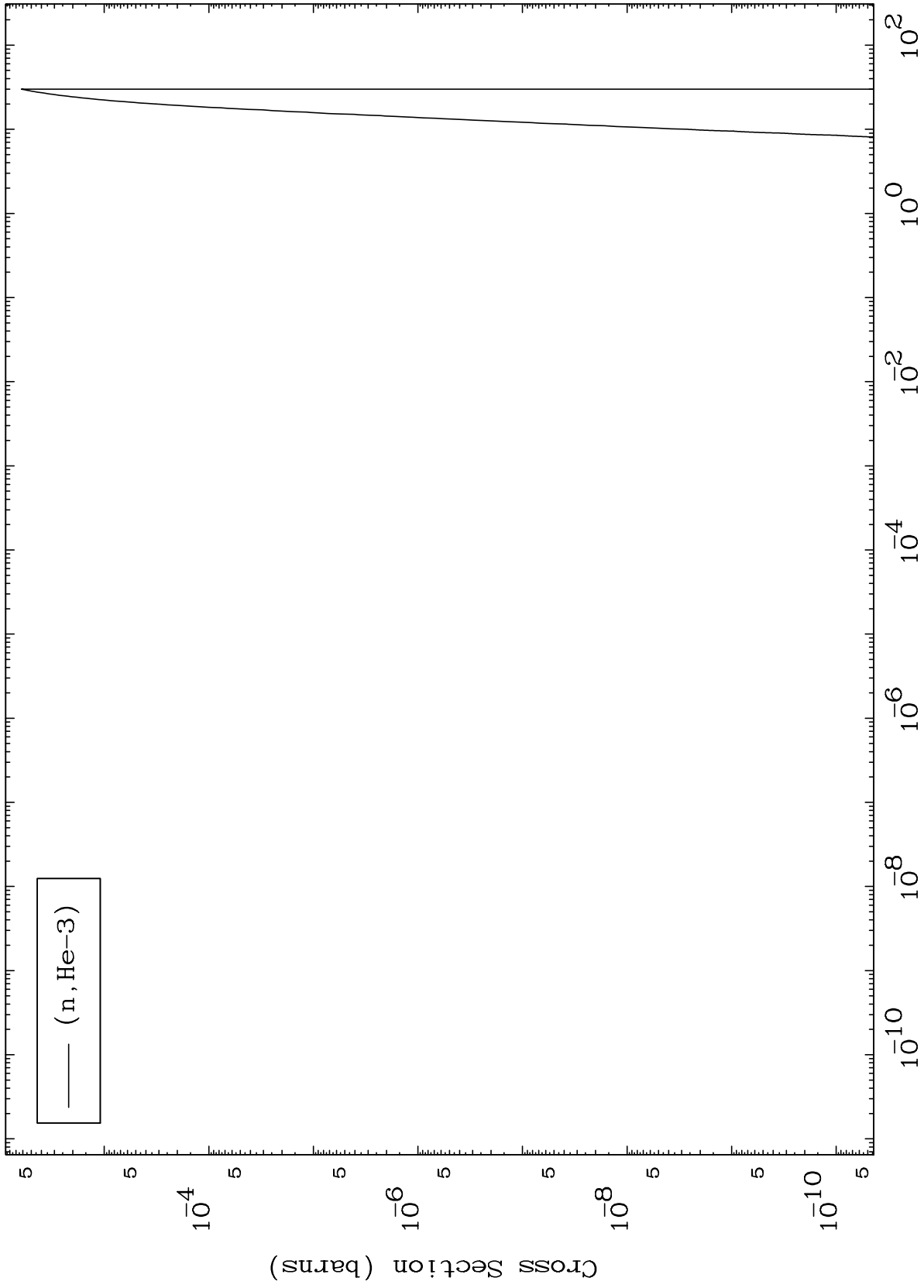
Incident Energy (MeV)

85-At-199

MAT 8513

(n,He3) Levels  
293 Kelvin Cross Sections

85-At-199



12

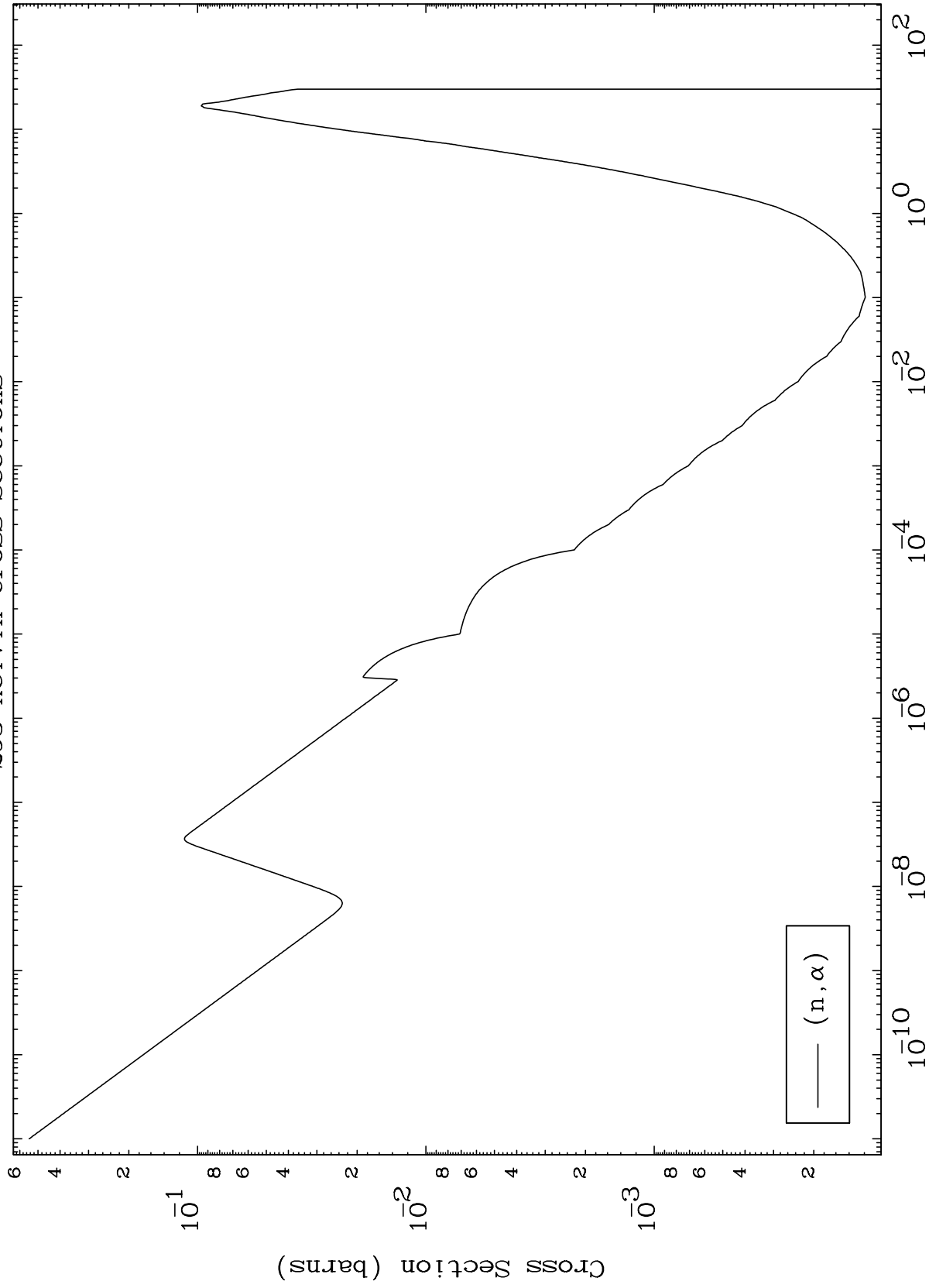
Incident Energy (MeV)

85-At-199

MAT 8513

(n,α) Levels  
293 Kelvin Cross Sections

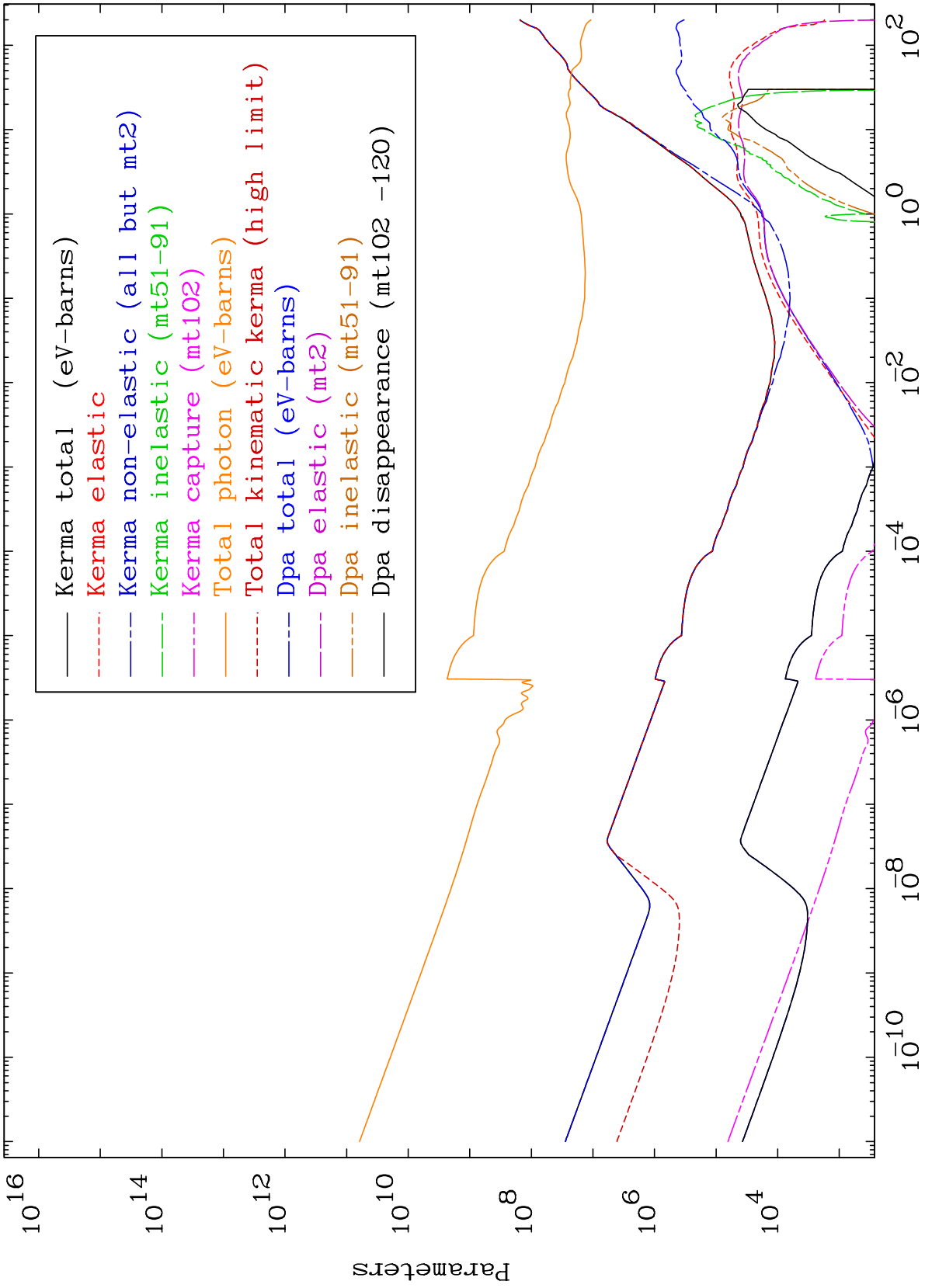
85-At-199



13

Incident Energy (MeV)

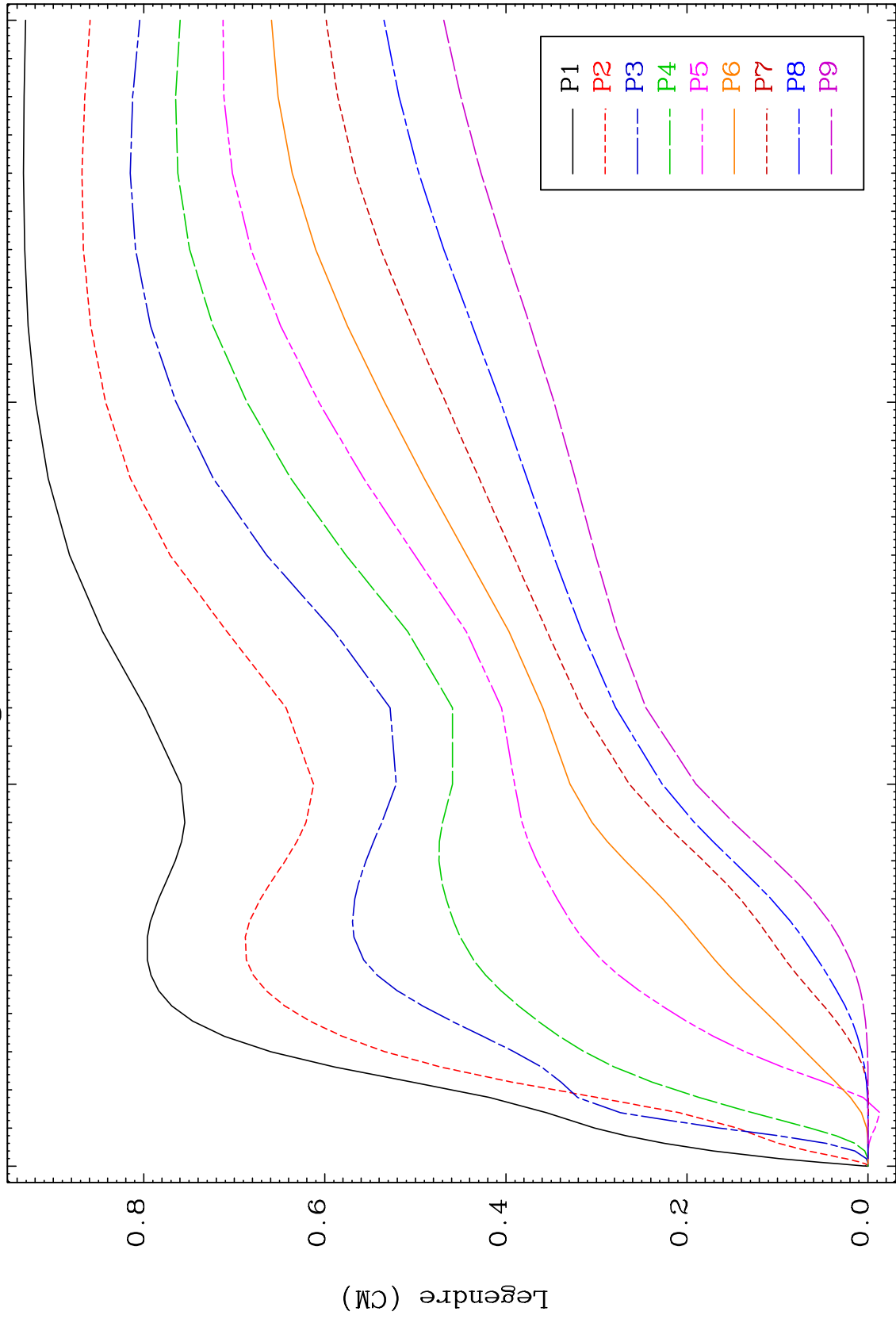
85-At-199



MAT 8513

Elastic Legendre Coefficients

85-At-199



0

15

10

20

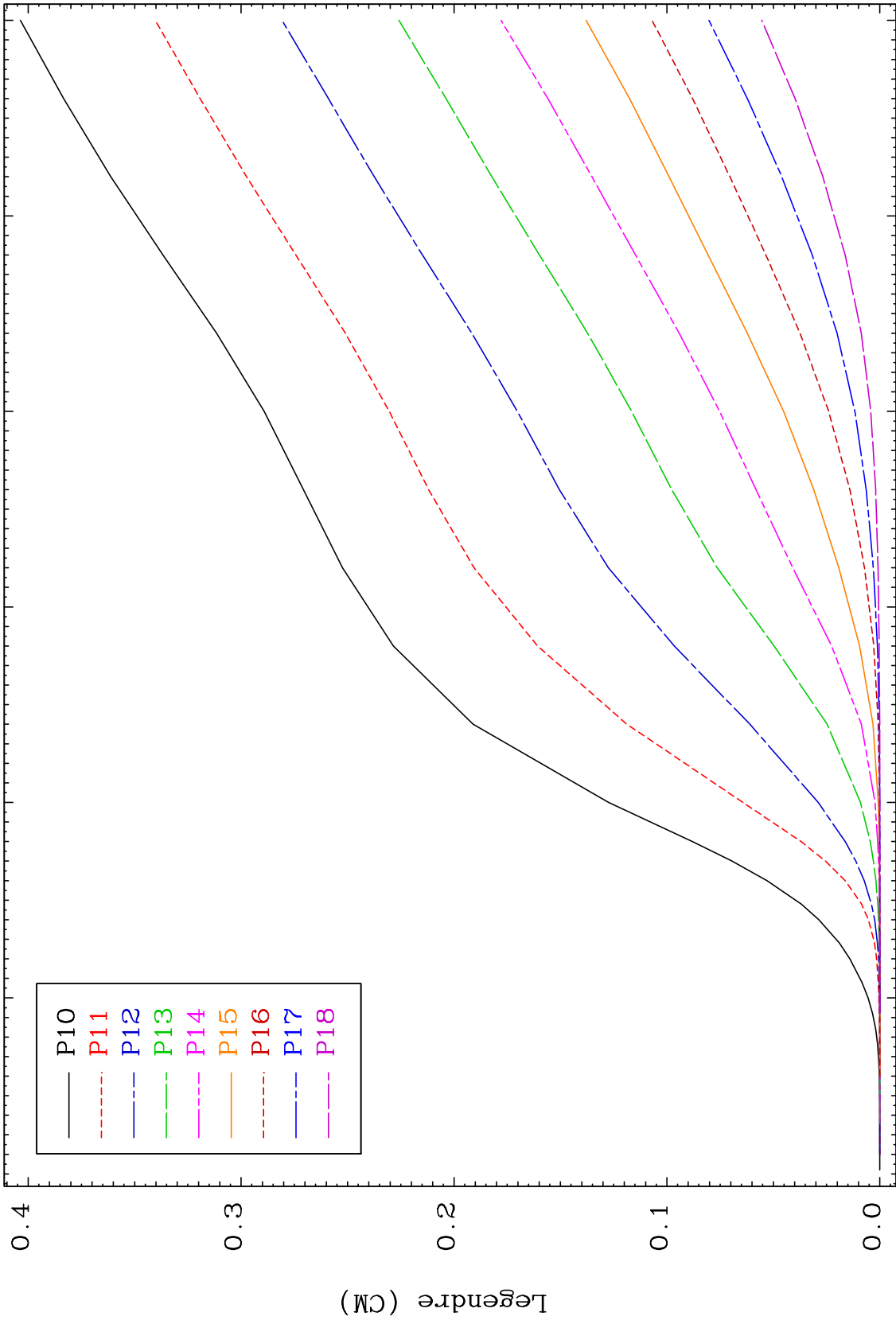
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MAT 8513

Elastic Legendre Coefficients

85-At-199



16

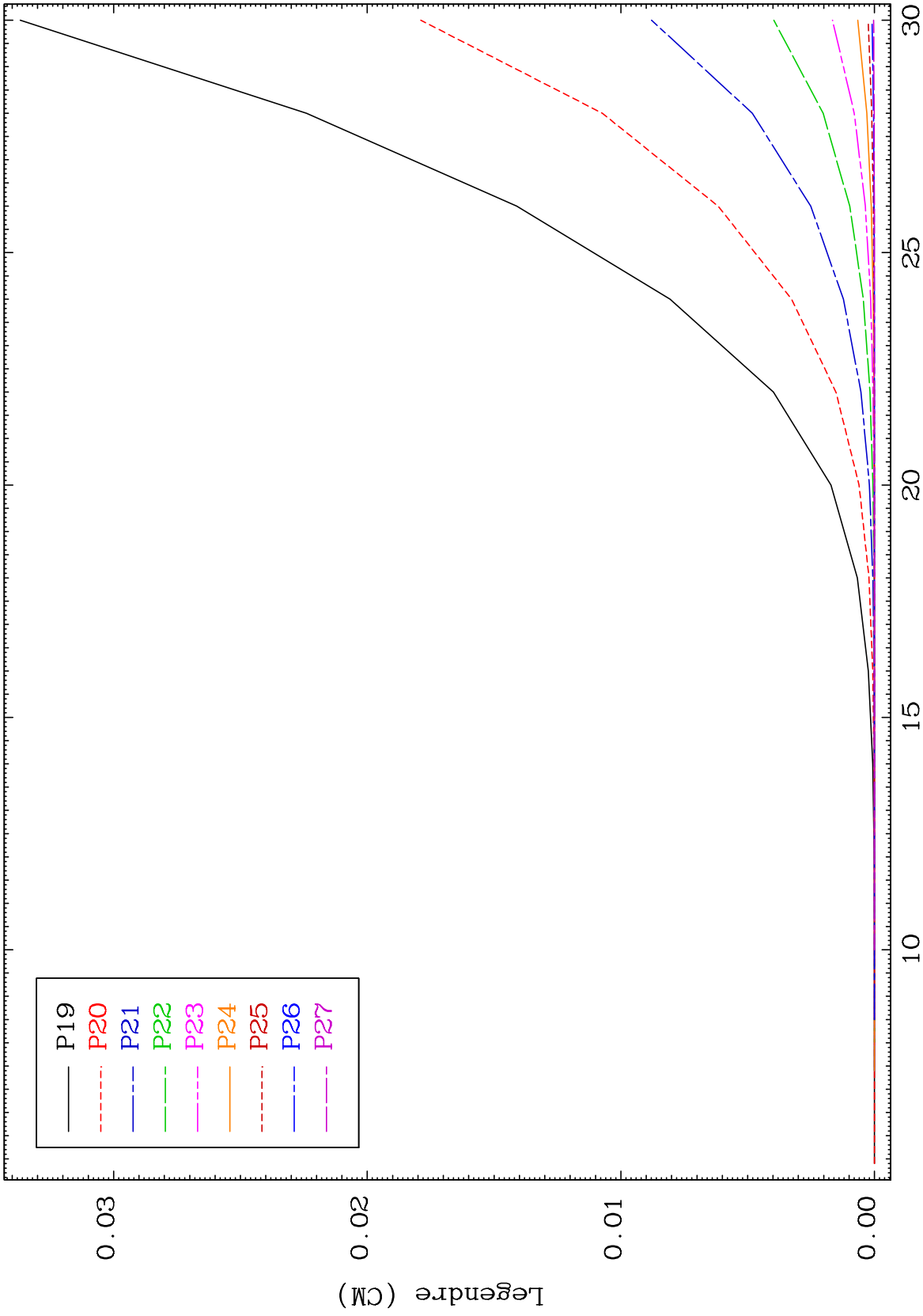
Incident Energy (MeV)

85-At-199

MAT 8513

### Elastic Legendre Coefficients

85-At-199



17

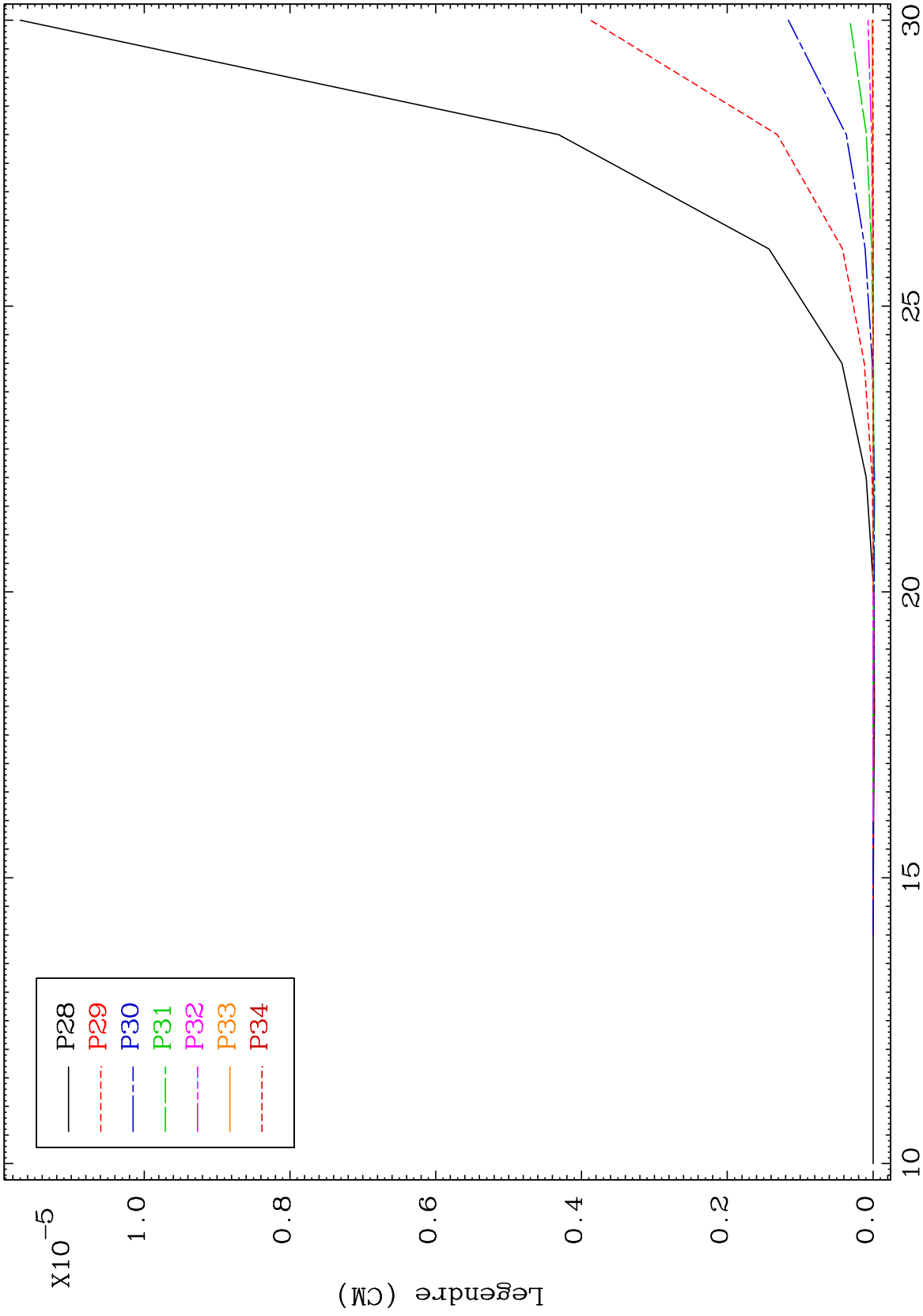
Incident Energy (MeV)

85-At-199

MAT 8513

### Elastic Legendre Coefficients

85-At-199



18

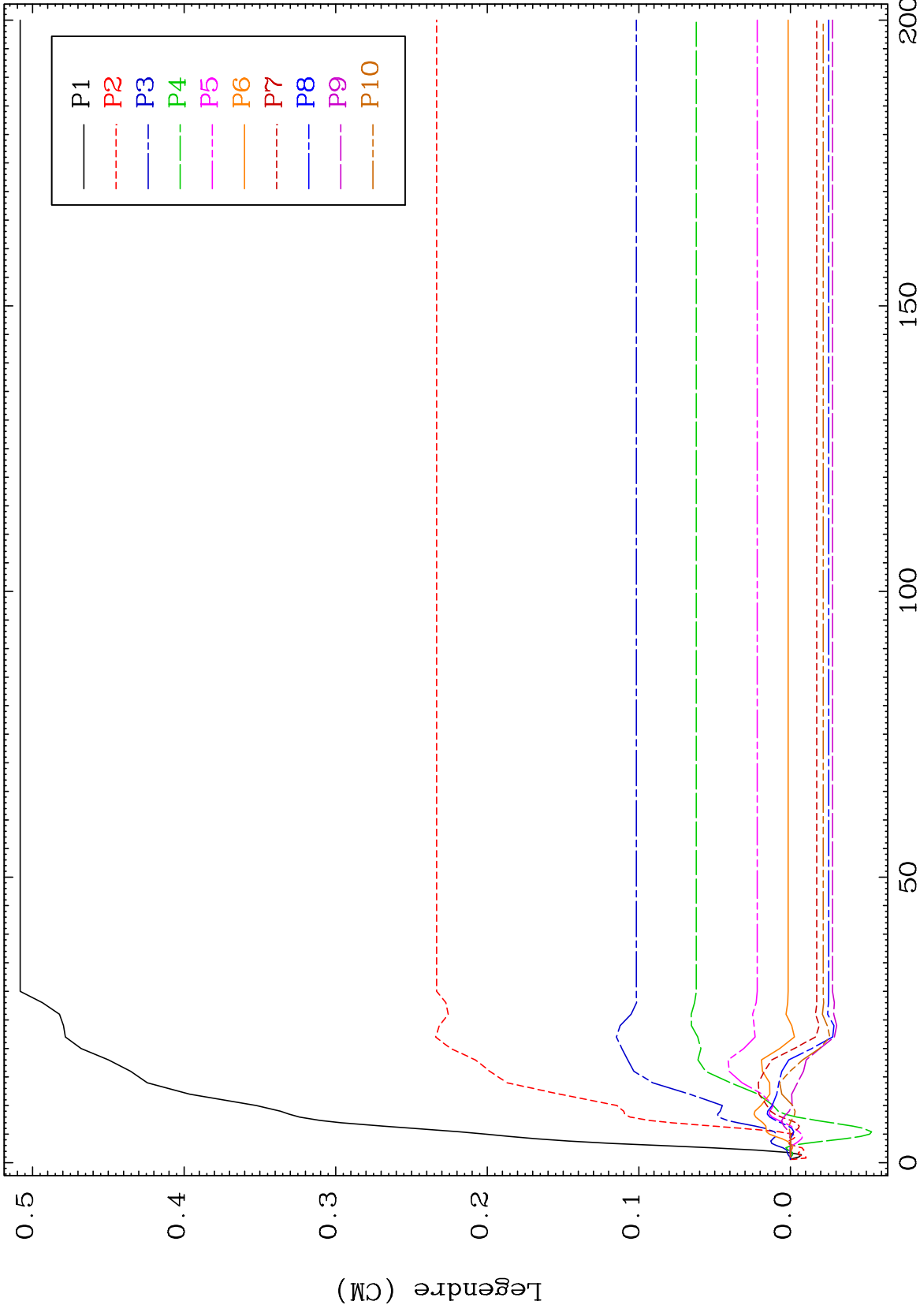
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 51 (n,n') Level  
Legendre Coefficients

85-At-199



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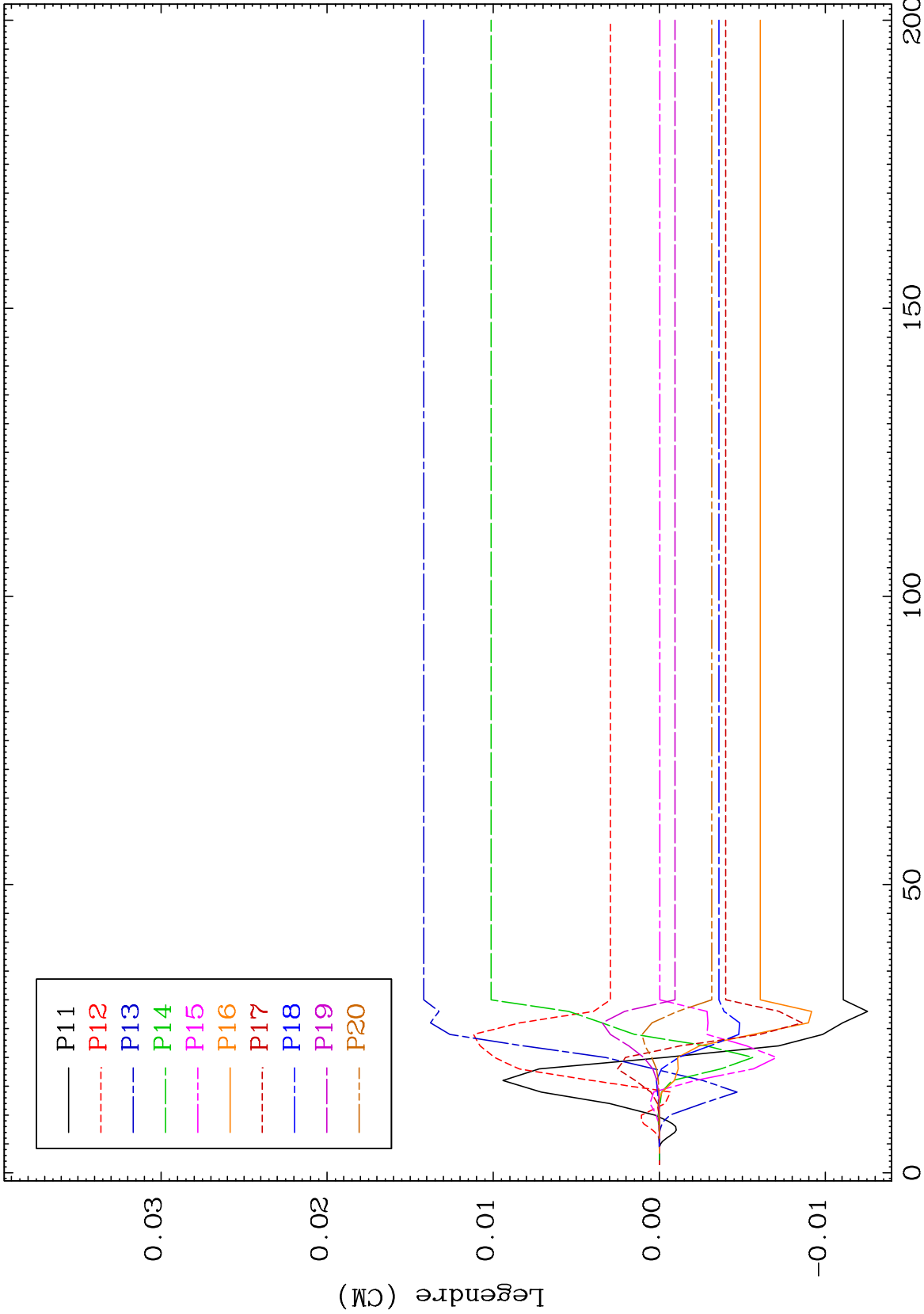
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 51 (n,n') Level  
Legendre Coefficients

85-At-199



20

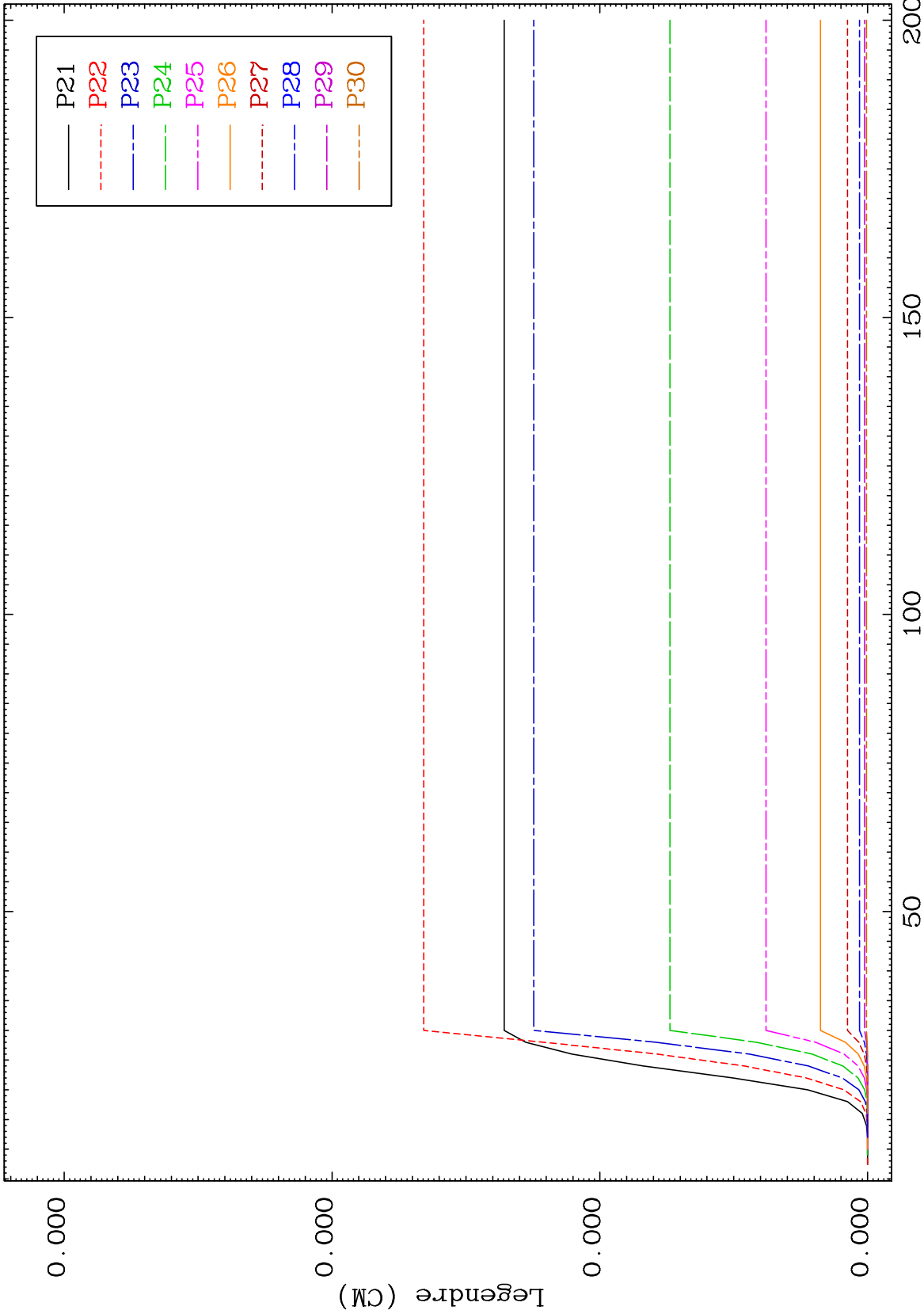
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 51 (n,n') Level  
Legendre Coefficients

85-At-199



21

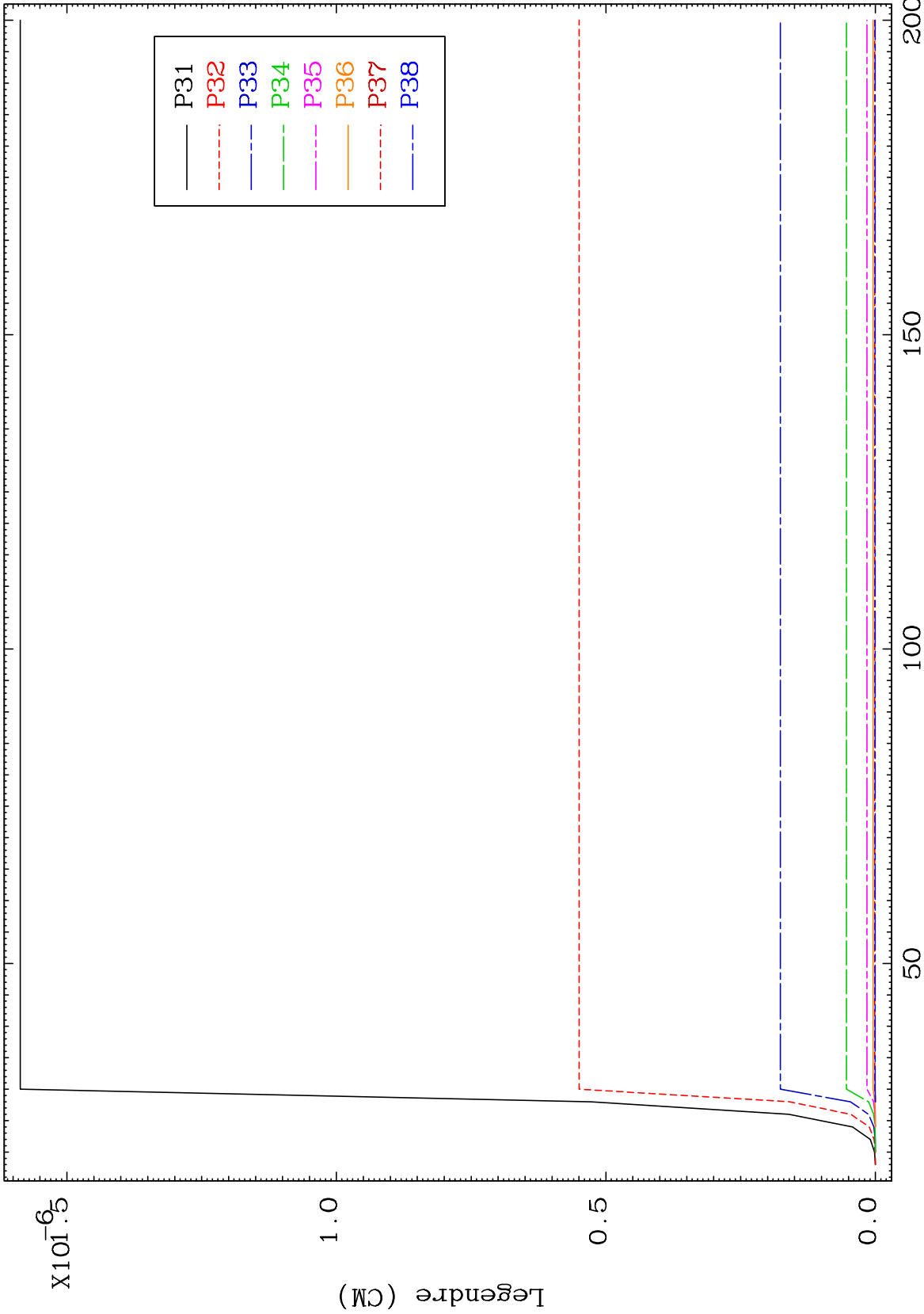
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 51 (n,n') Level  
Legendre Coefficients

85-At-199



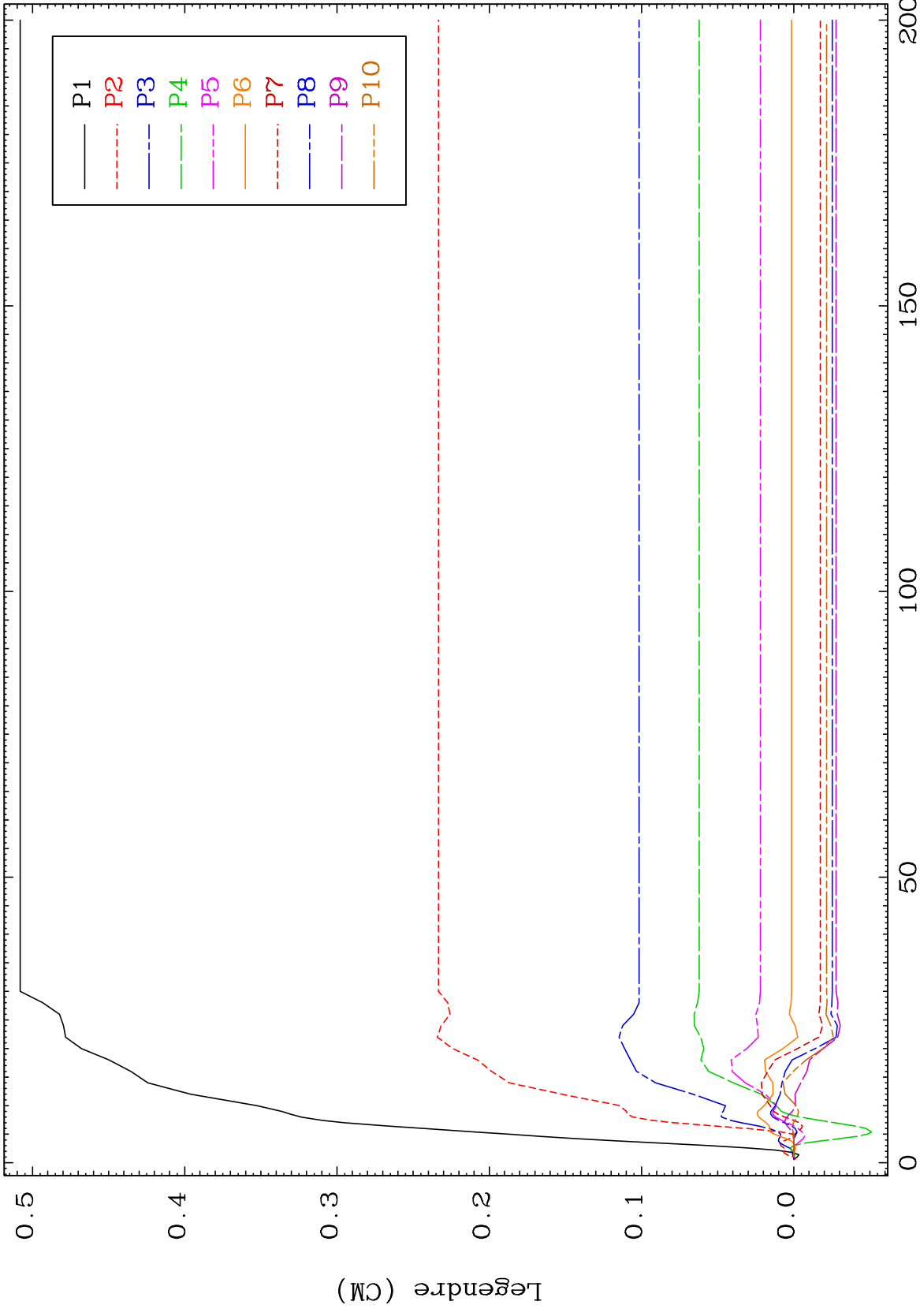
22

85-At-199

MAT 8513

MT= 52 (n,n') Level  
Legendre Coefficients

85-At-199



23

Incident Energy (MeV)

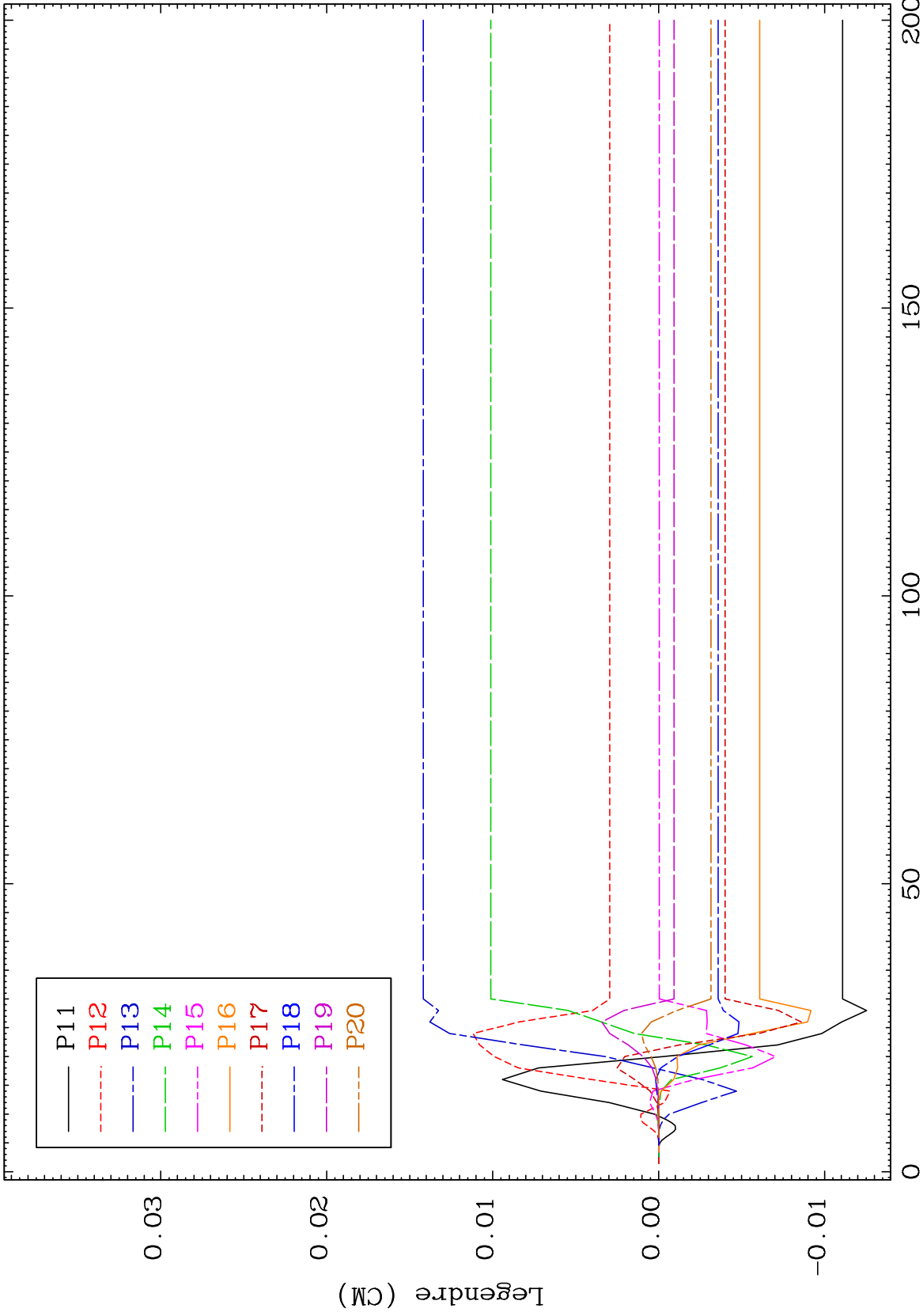
85-At-199



MAT 8513

MT= 52 (n,n') Level  
Legendre Coefficients

85-At-199



24

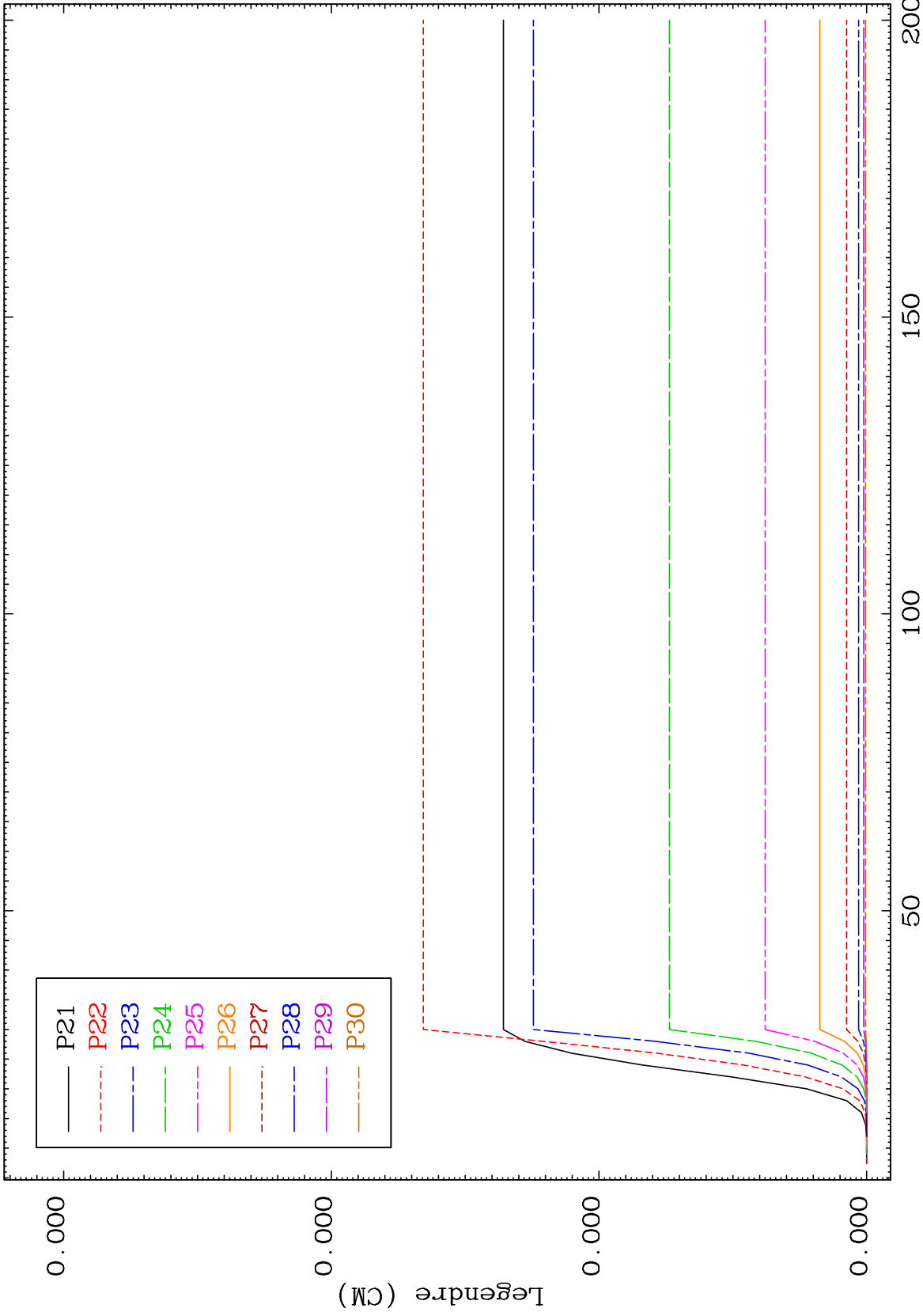
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 52 (n,n') Level  
Legendre Coefficients

85-At-199



25

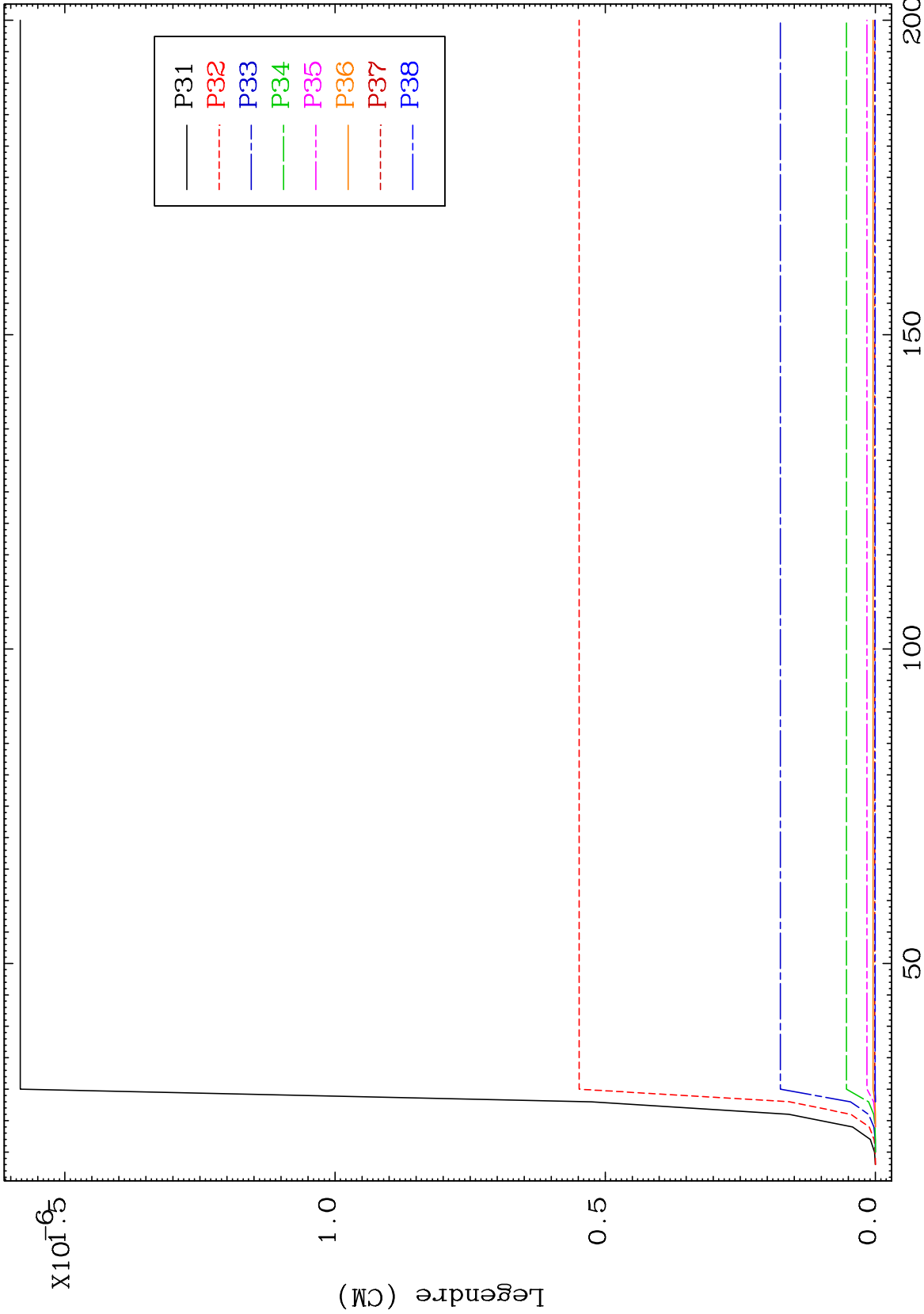
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 52 (n,n') Level  
Legendre Coefficients

85-At-199



26

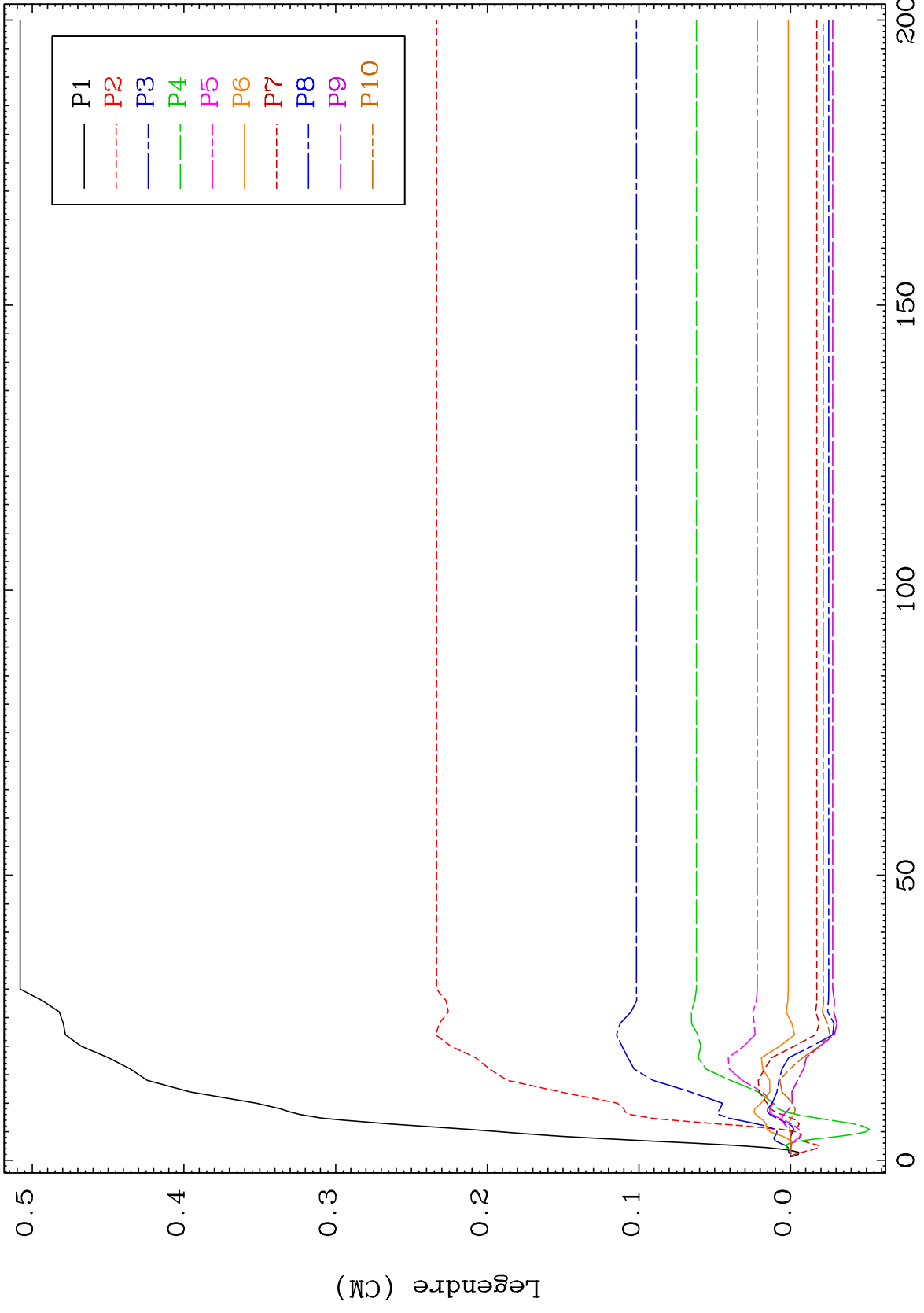
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 53 (n,n') Level  
Legendre Coefficients

85-At-199



27

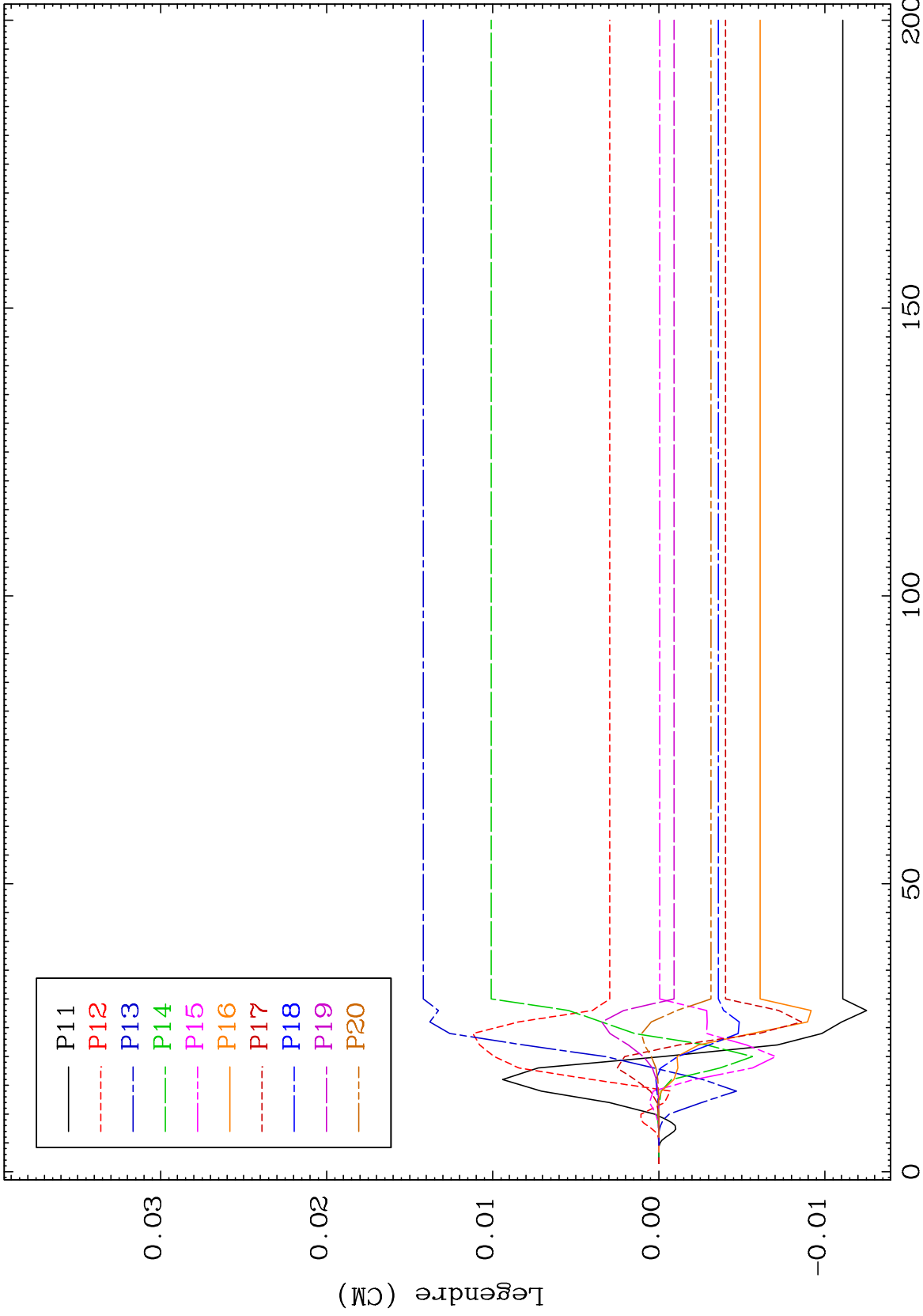
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 53 (n,n') Level  
Legendre Coefficients

85-At-199



28

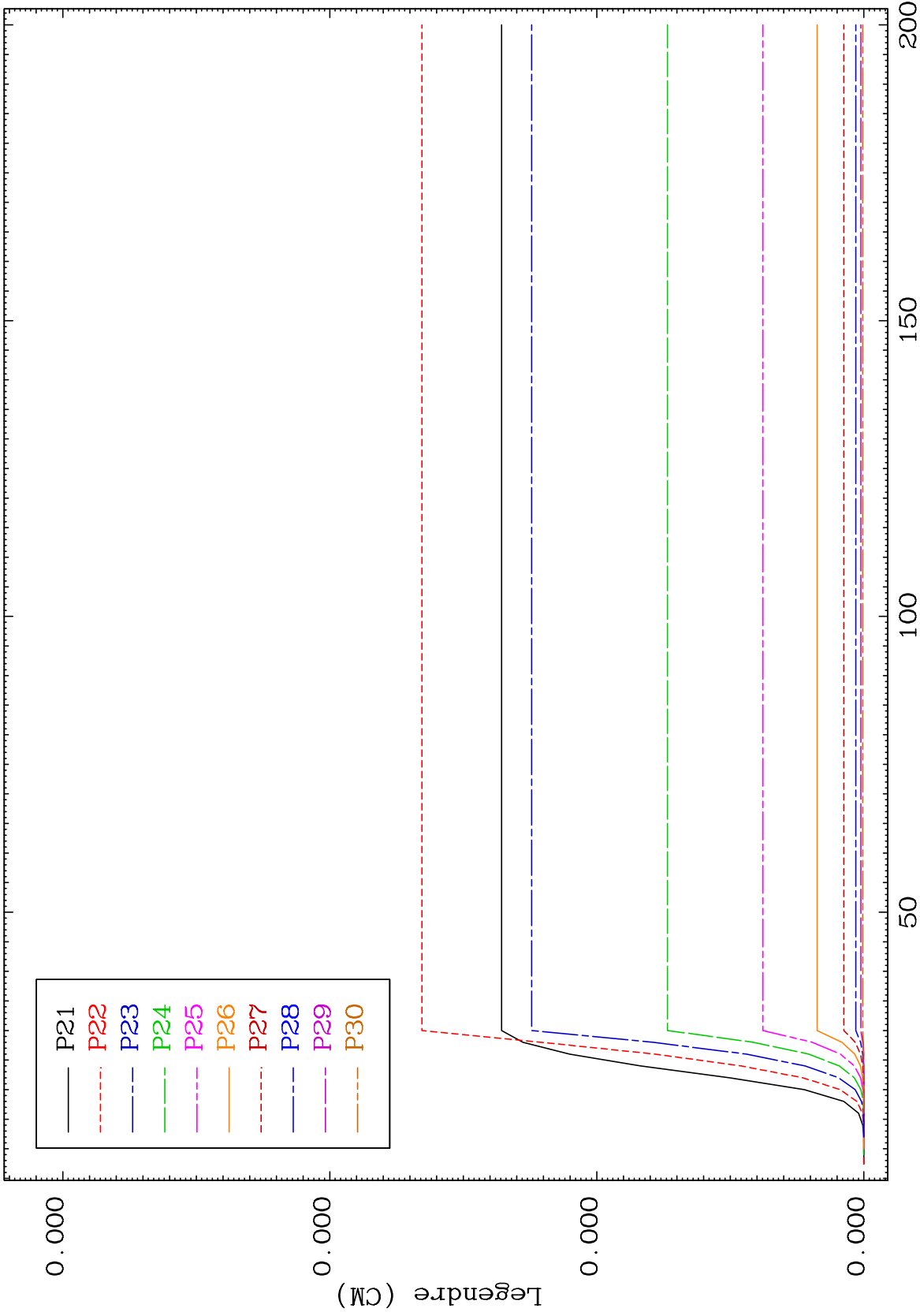
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 53 (n,n') Level  
Legendre Coefficients

85-At-199



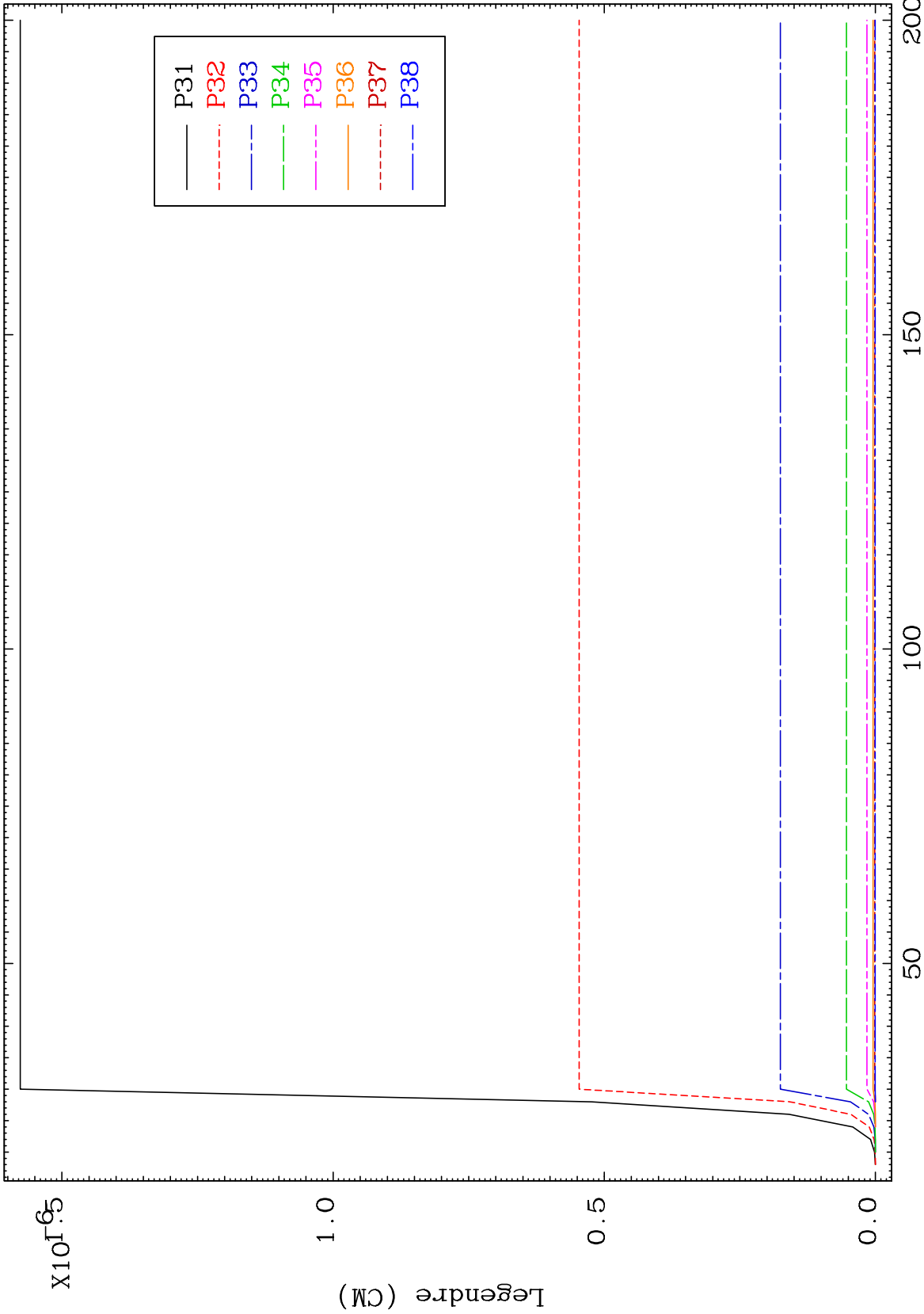
29

85-At-199

MAT 8513

MT= 53 (n,n') Level  
Legendre Coefficients

85-At-199



30

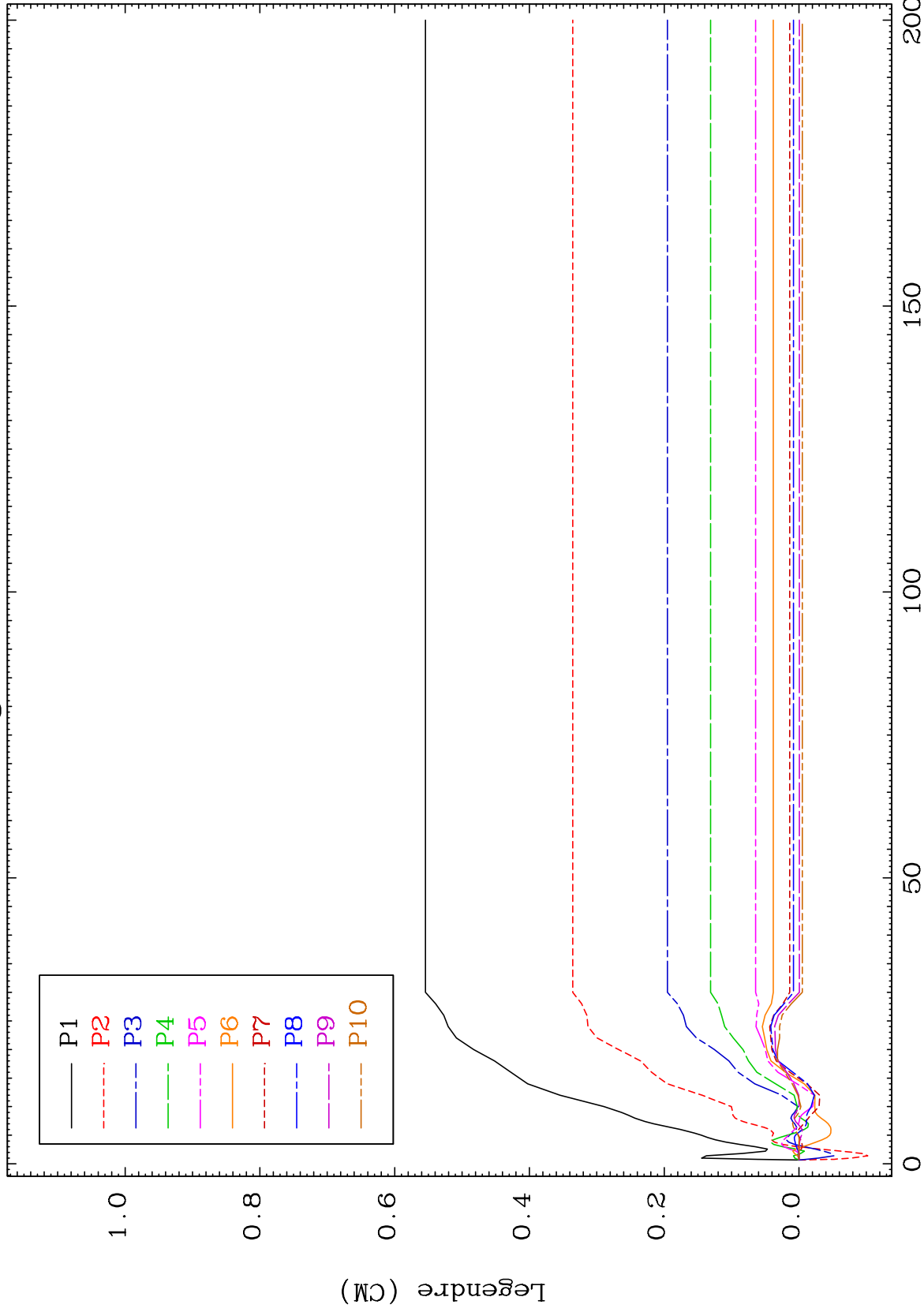
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 54 (n,n') Level  
Legendre Coefficients

85-At-199



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Incident Energy (MeV)

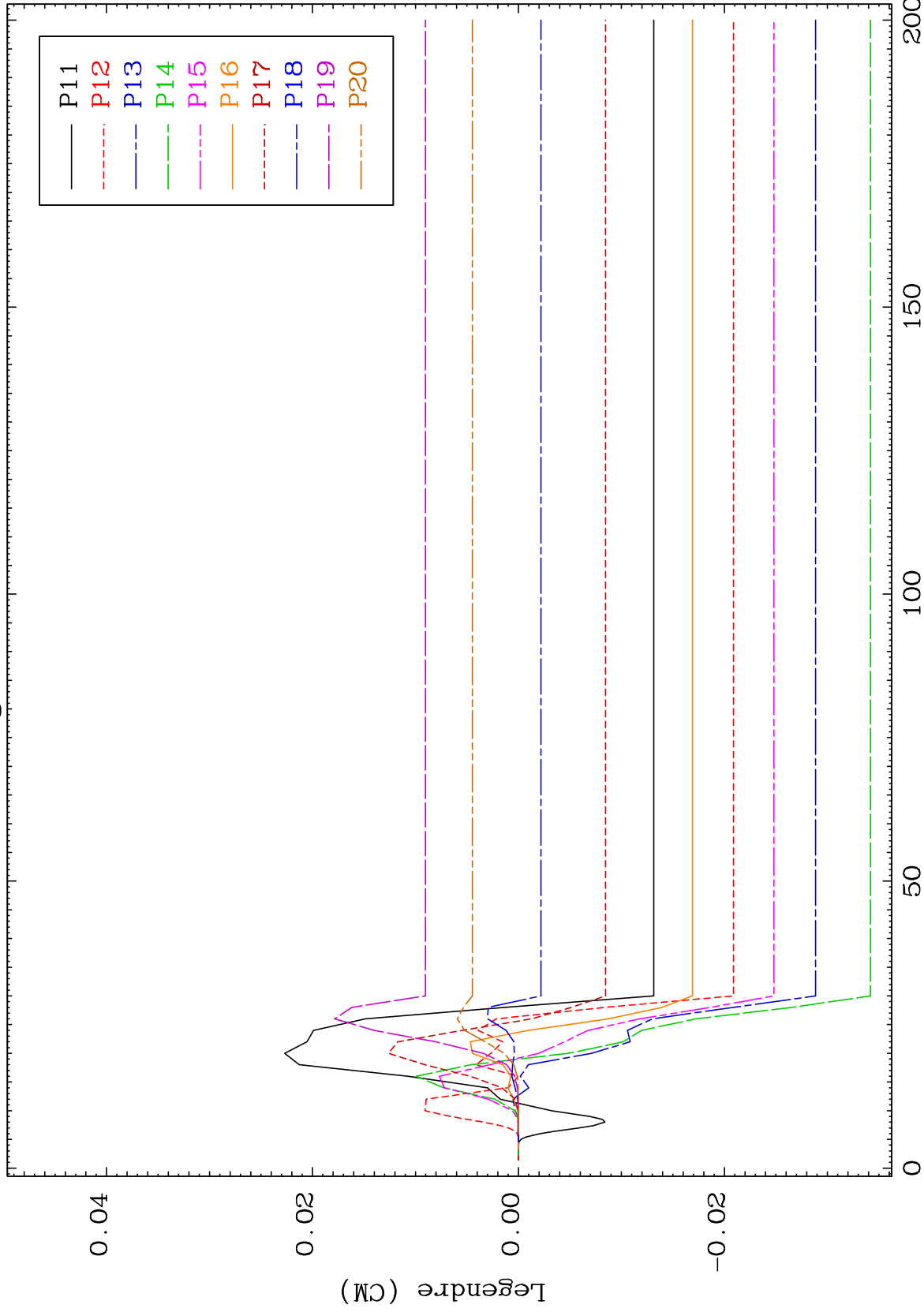
85-At-199



MAT 8513

MT= 54 (n,n') Level  
Legendre Coefficients

85-At-199



32

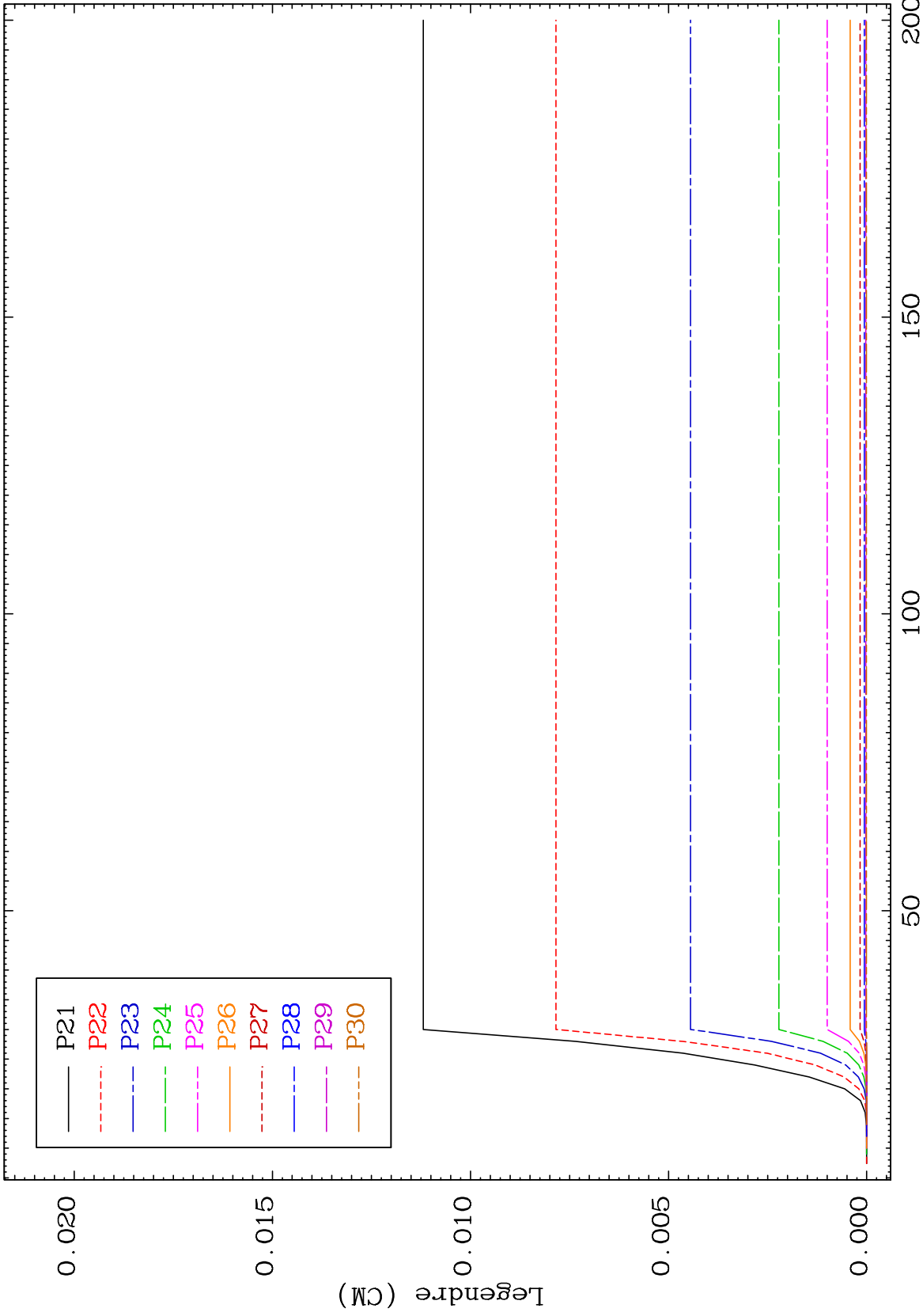
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 54 (n,n') Level  
Legendre Coefficients

85-At-199



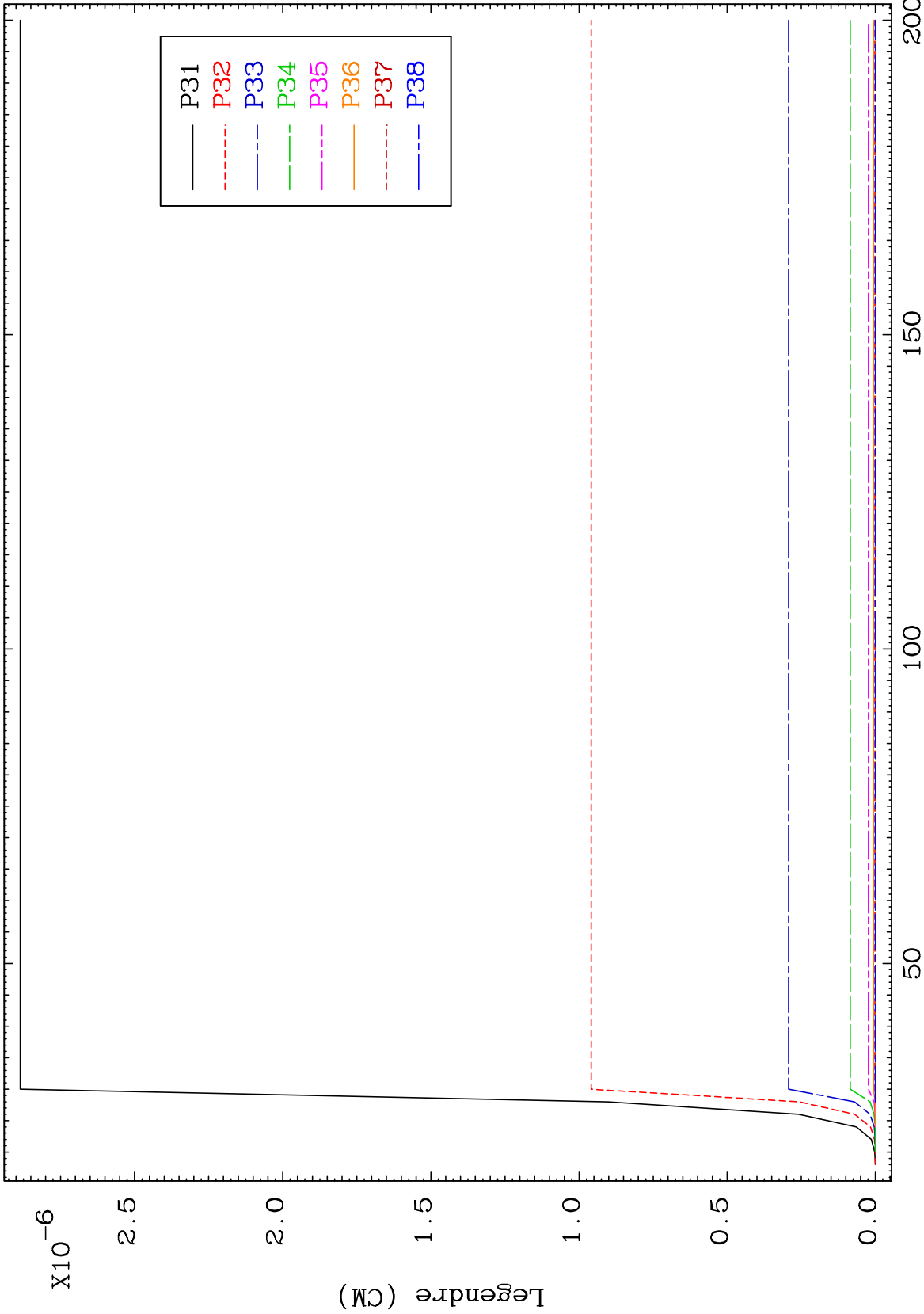
33

85-At-199

MAT 8513

MT= 54 (n,n') Level  
Legendre Coefficients

85-At-199



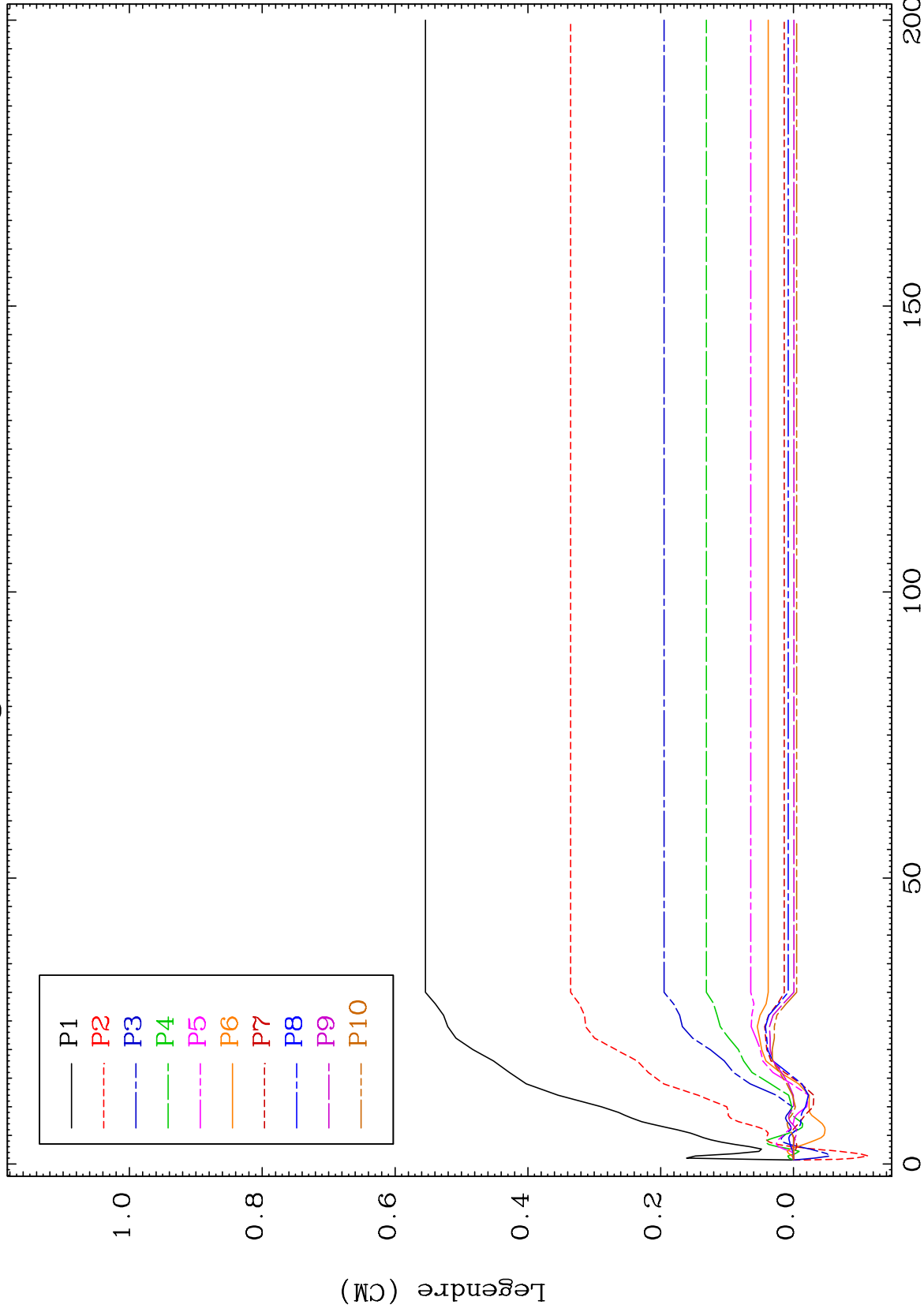
34

85-At-199

MAT 8513

MT= 55 (n,n') Level  
Legendre Coefficients

85-At-199



35

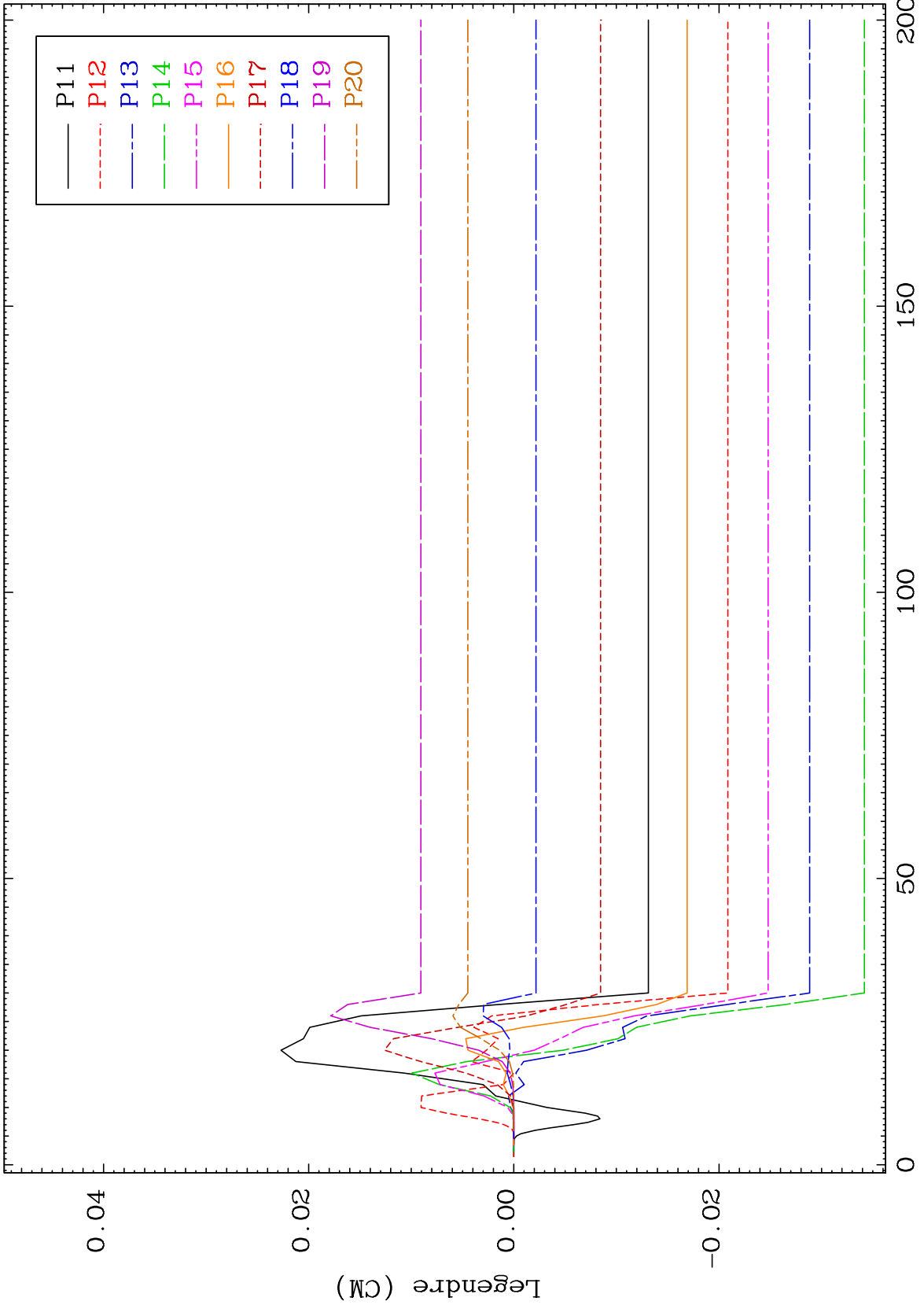
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 55 (n,n') Level  
Legendre Coefficients

85-At-199



36

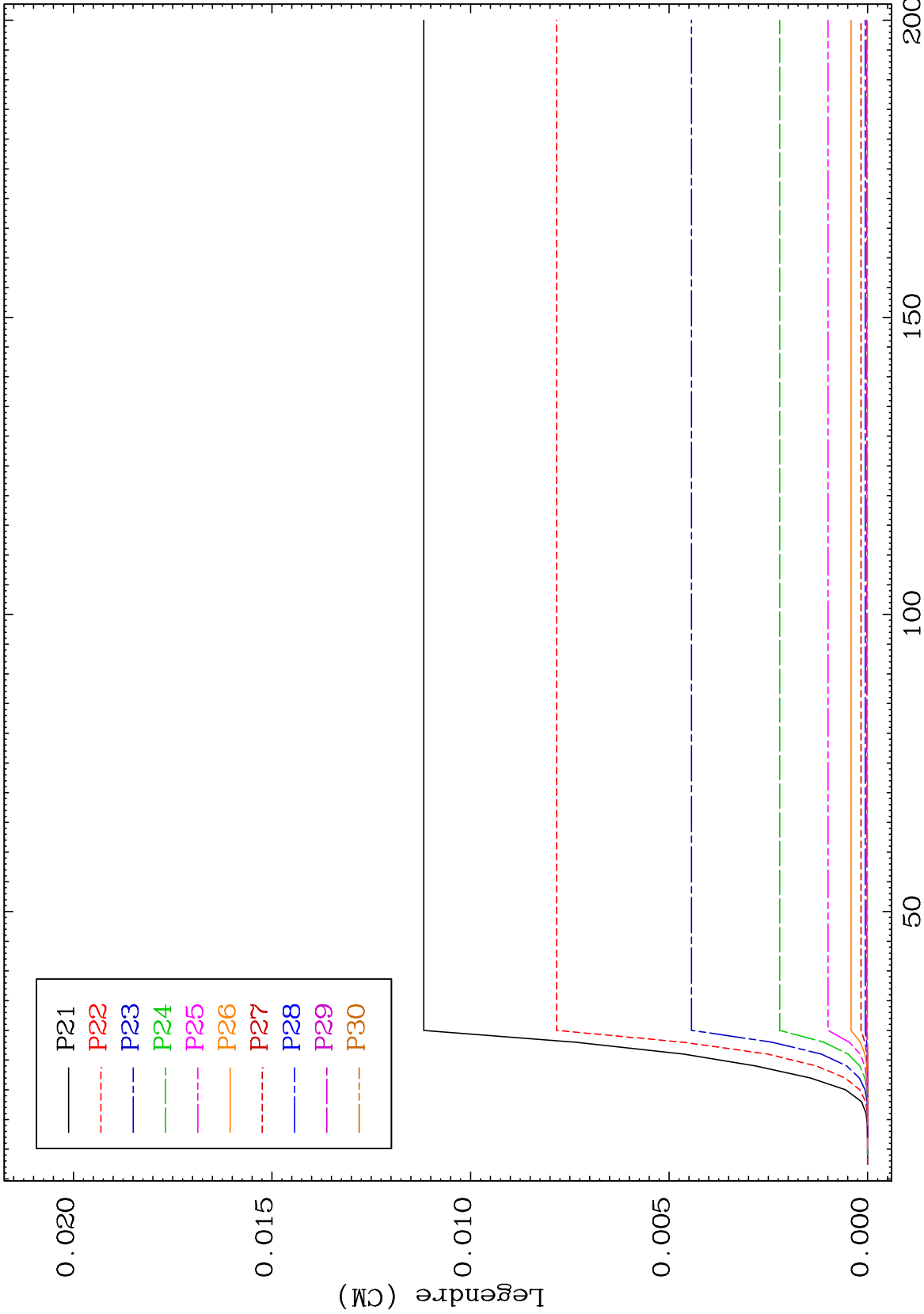
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 55 (n,n') Level  
Legendre Coefficients

85-At-199



37

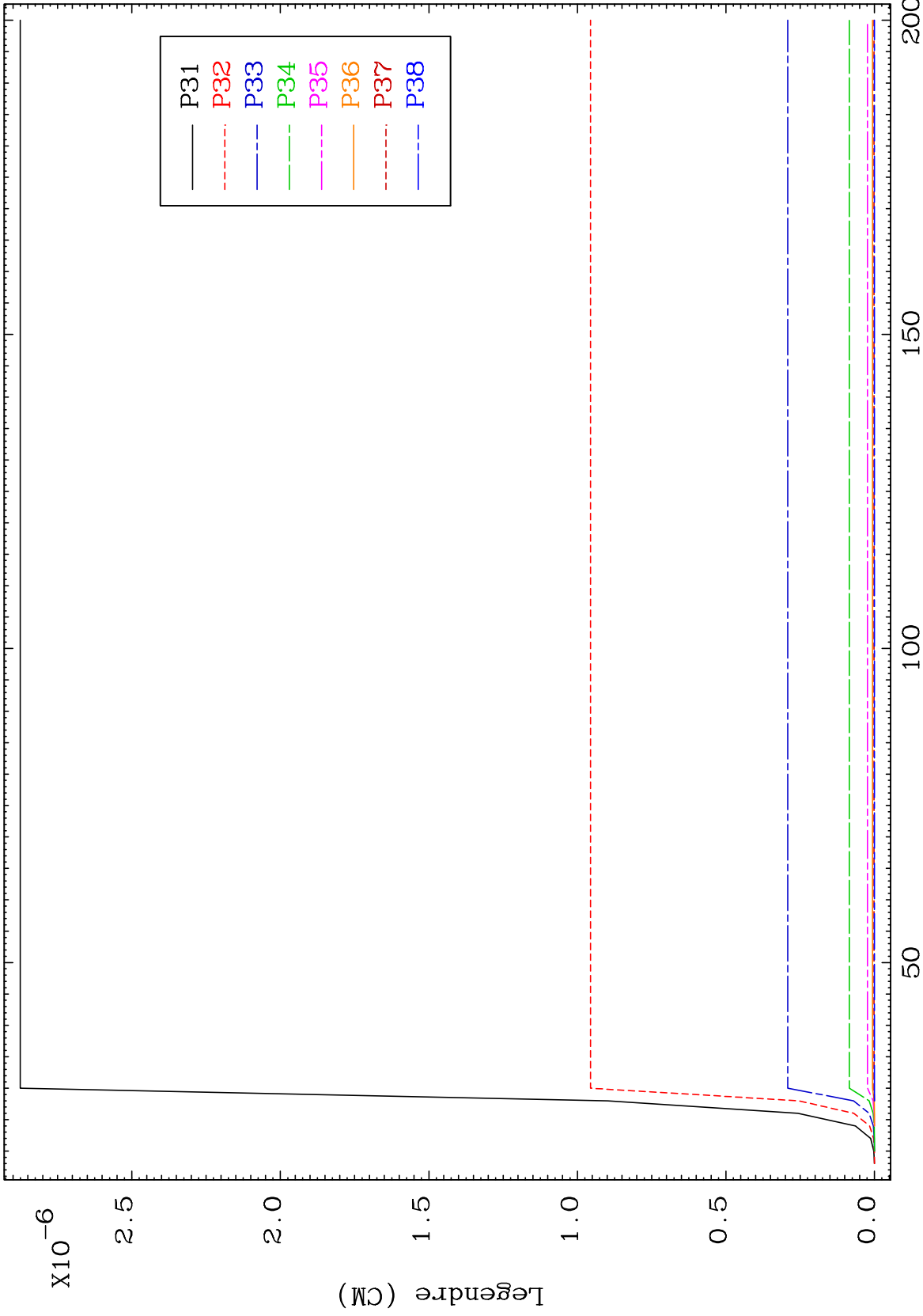
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 55 (n,n') Level  
Legendre Coefficients

85-At-199



38

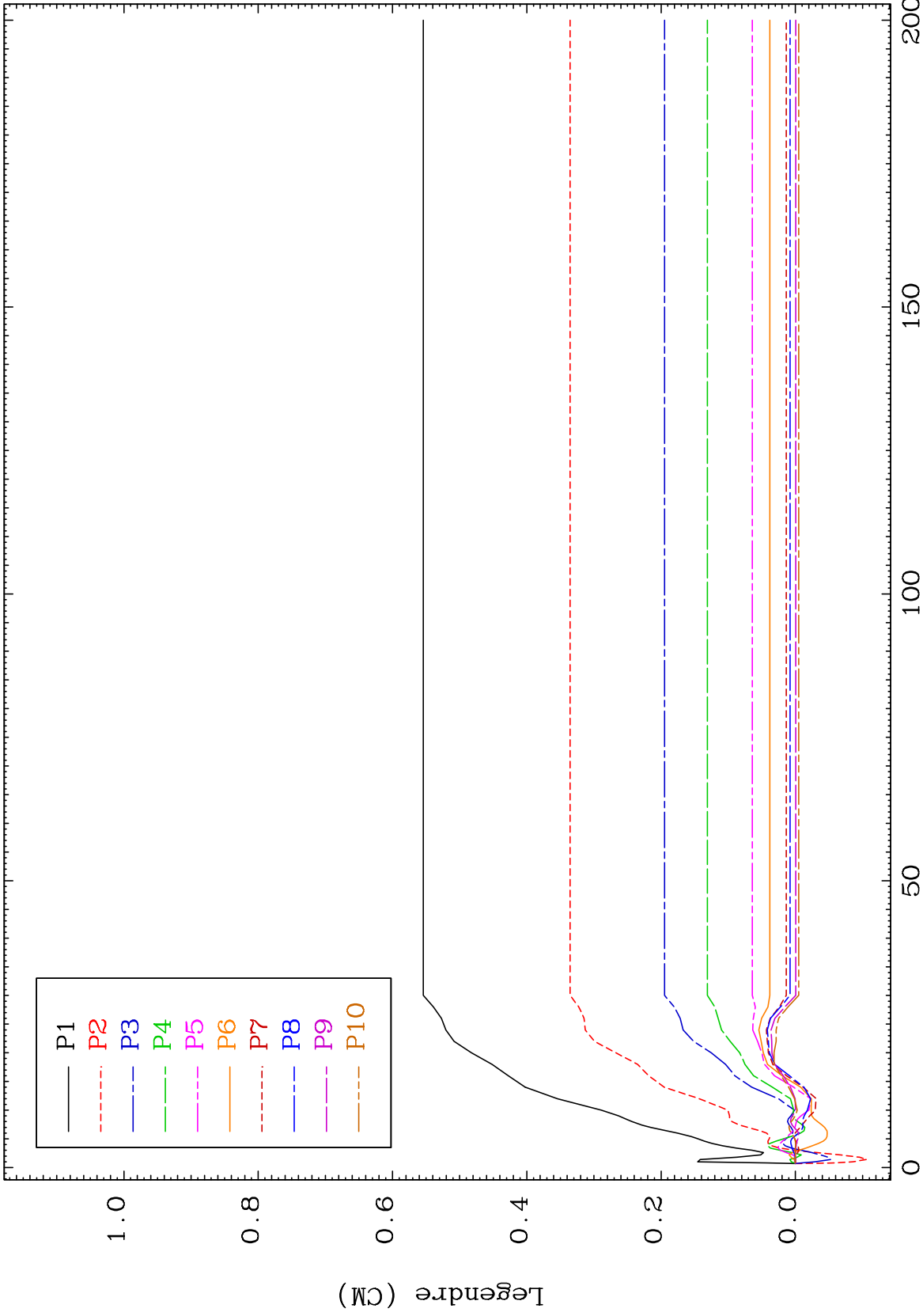
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 56 (n,n') Level  
Legendre Coefficients

85-At-199



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Incident Energy (MeV)

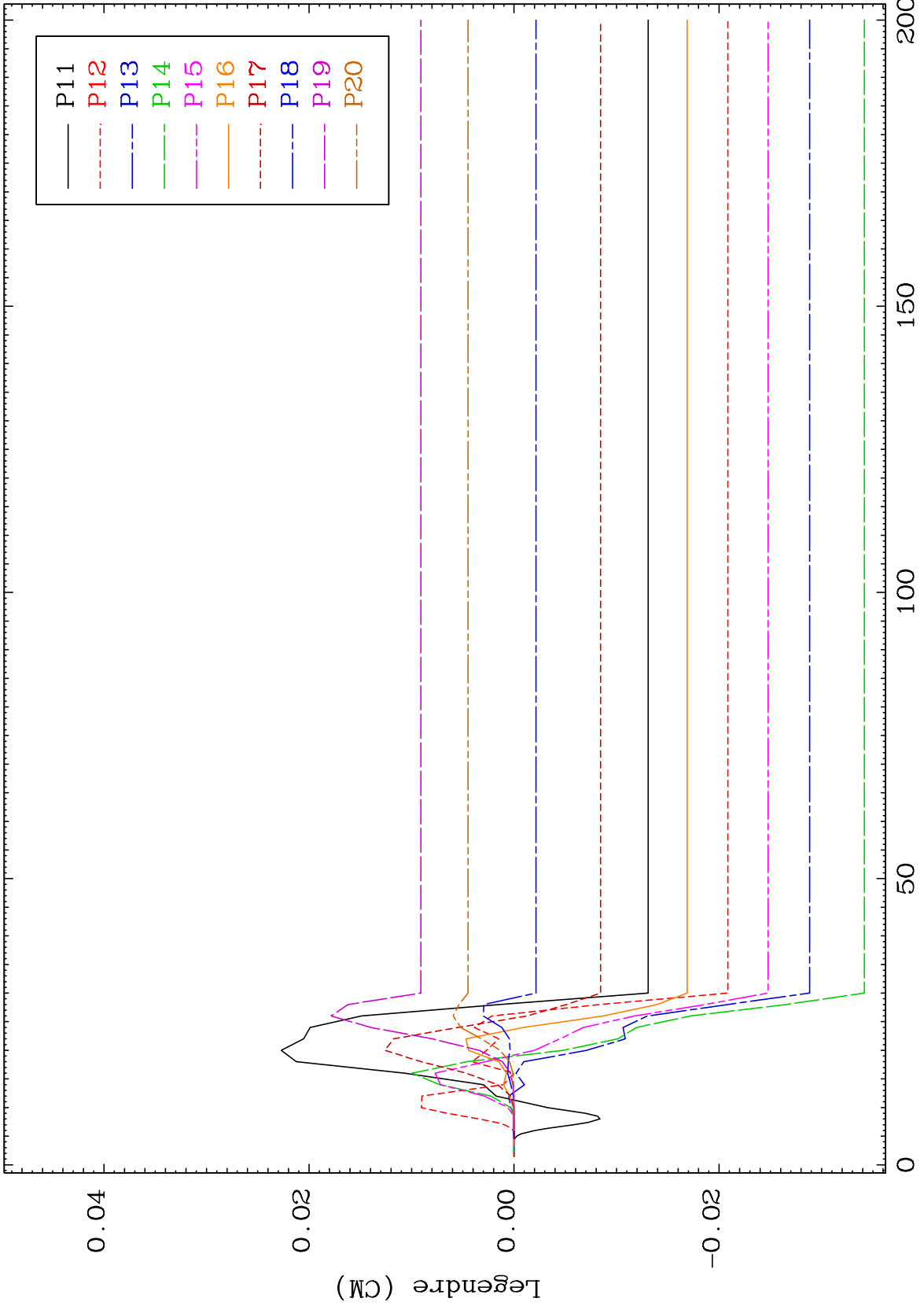
85-At-199



MAT 8513

MT= 56 (n,n') Level  
Legendre Coefficients

85-At-199



40

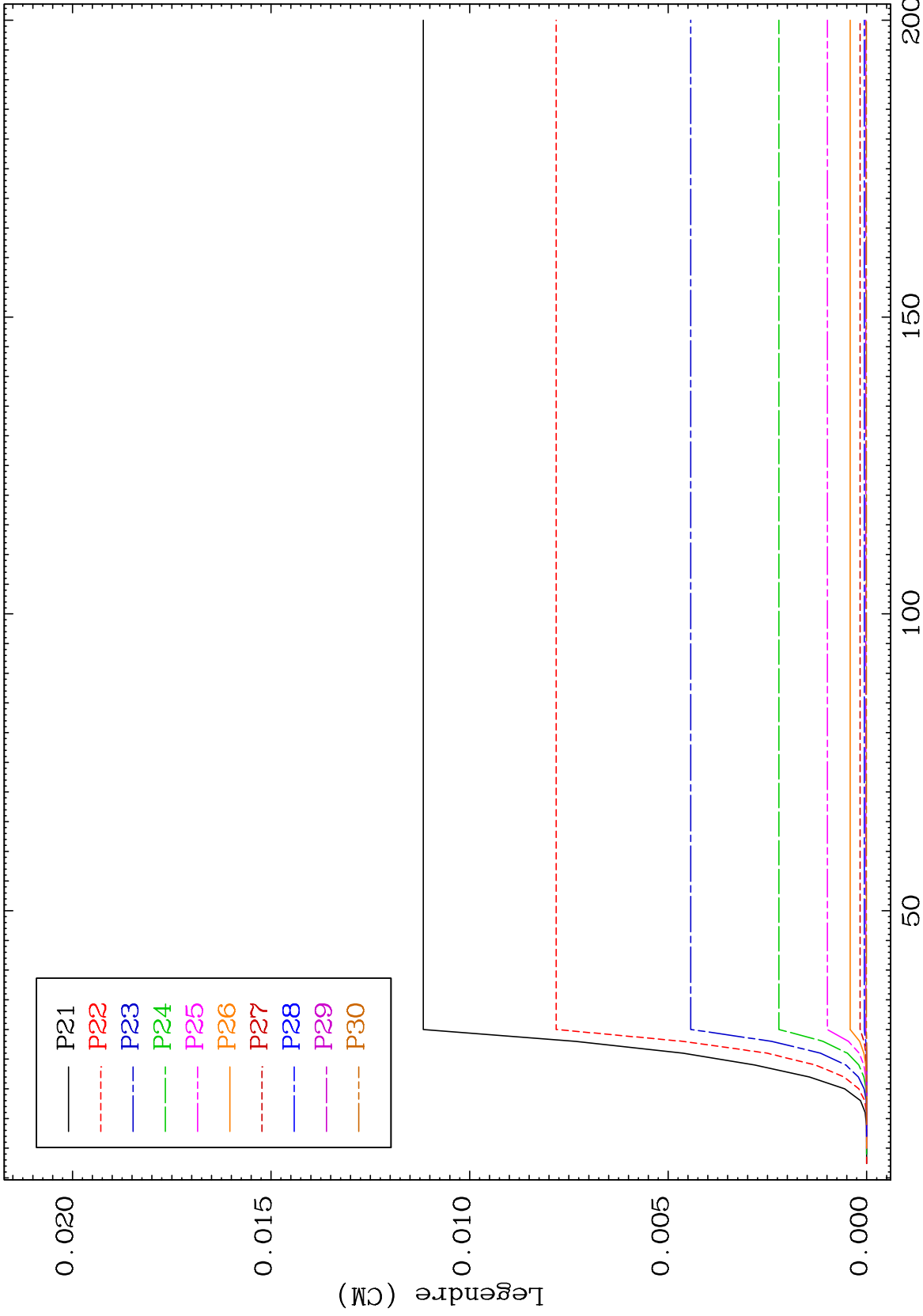
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 56 (n,n') Level  
Legendre Coefficients

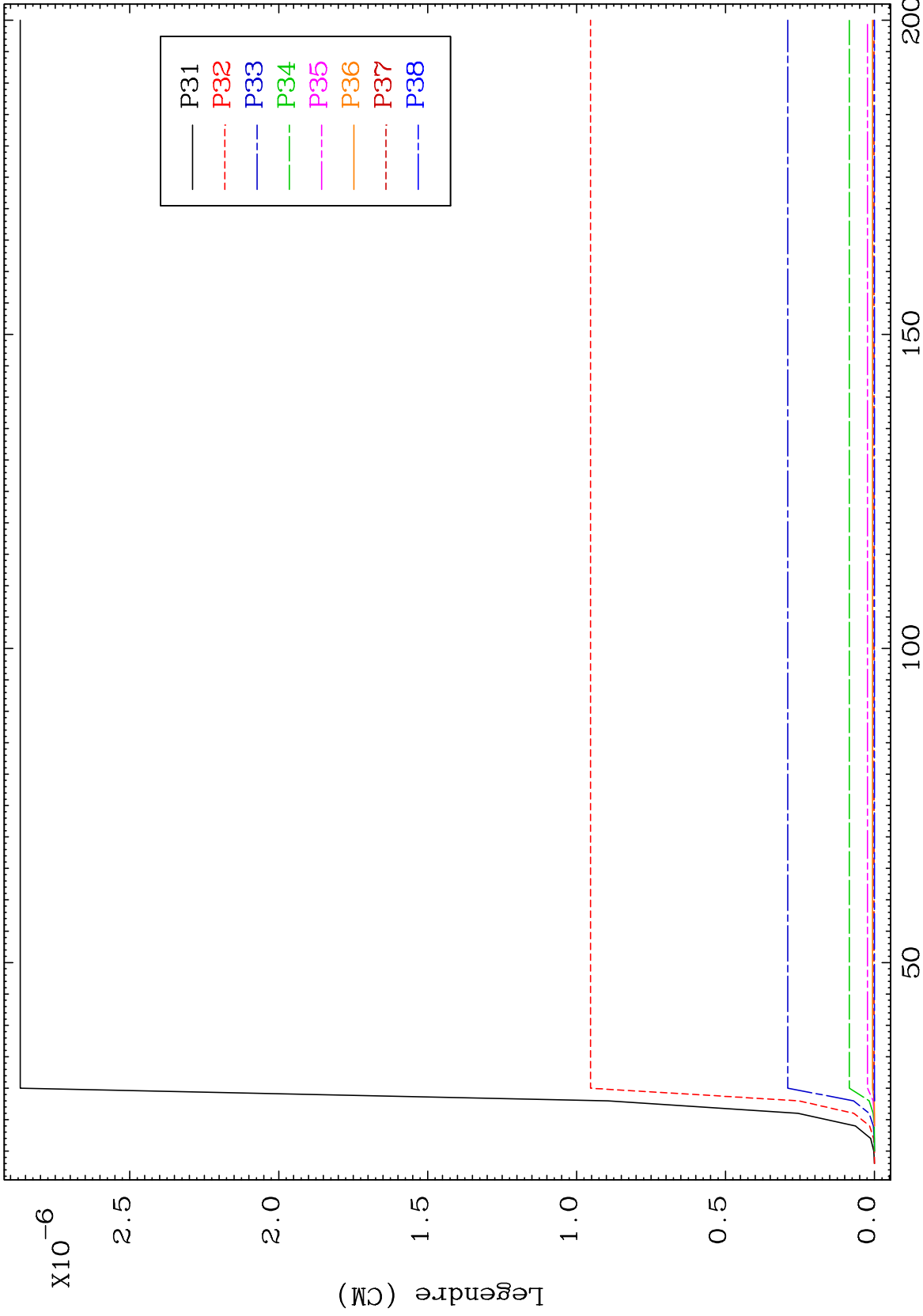
85-At-199



MAT 8513

MT= 56 (n,n') Level  
Legendre Coefficients

85-At-199



42

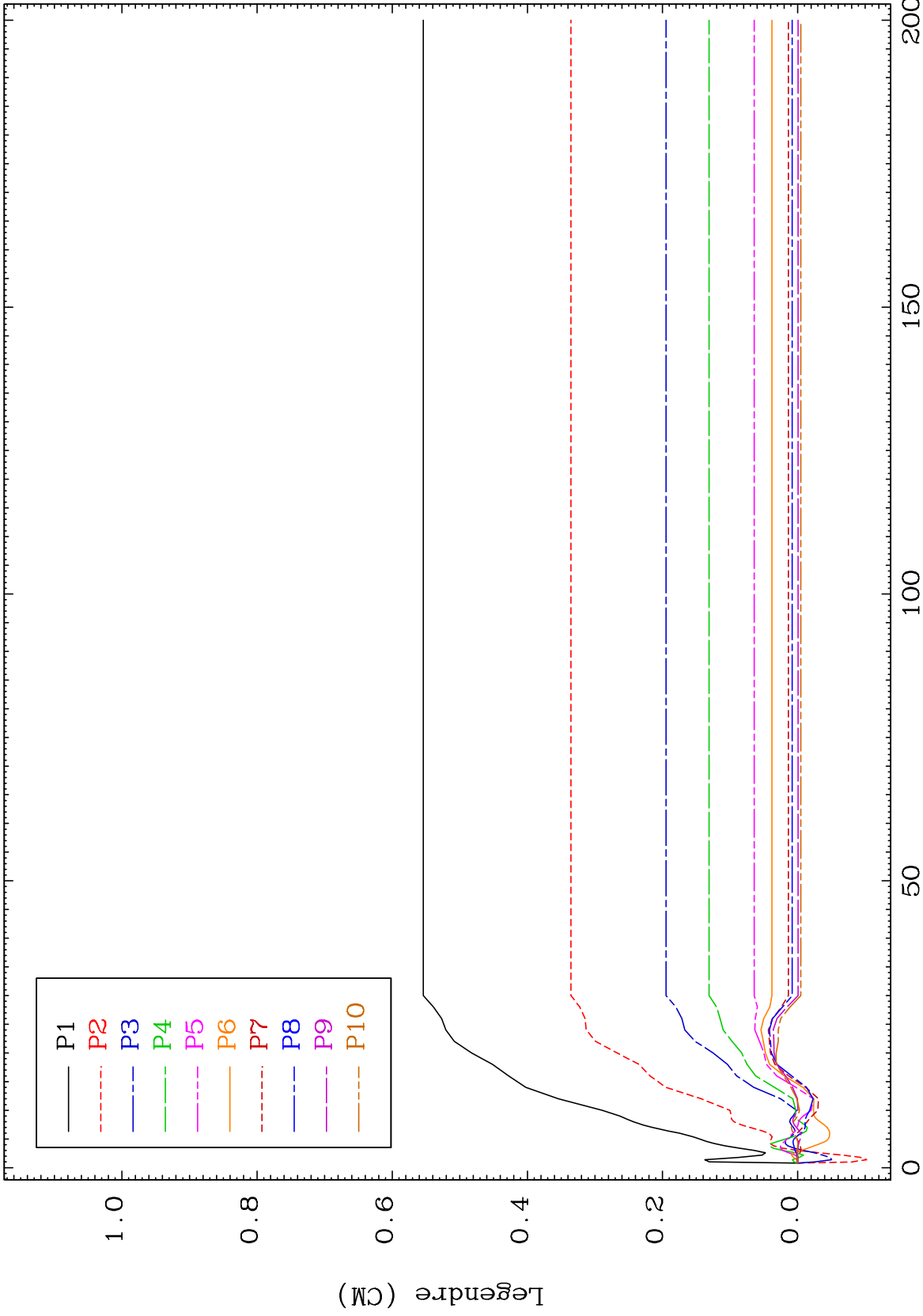
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 57 (n,n') Level  
Legendre Coefficients

85-At-199



43

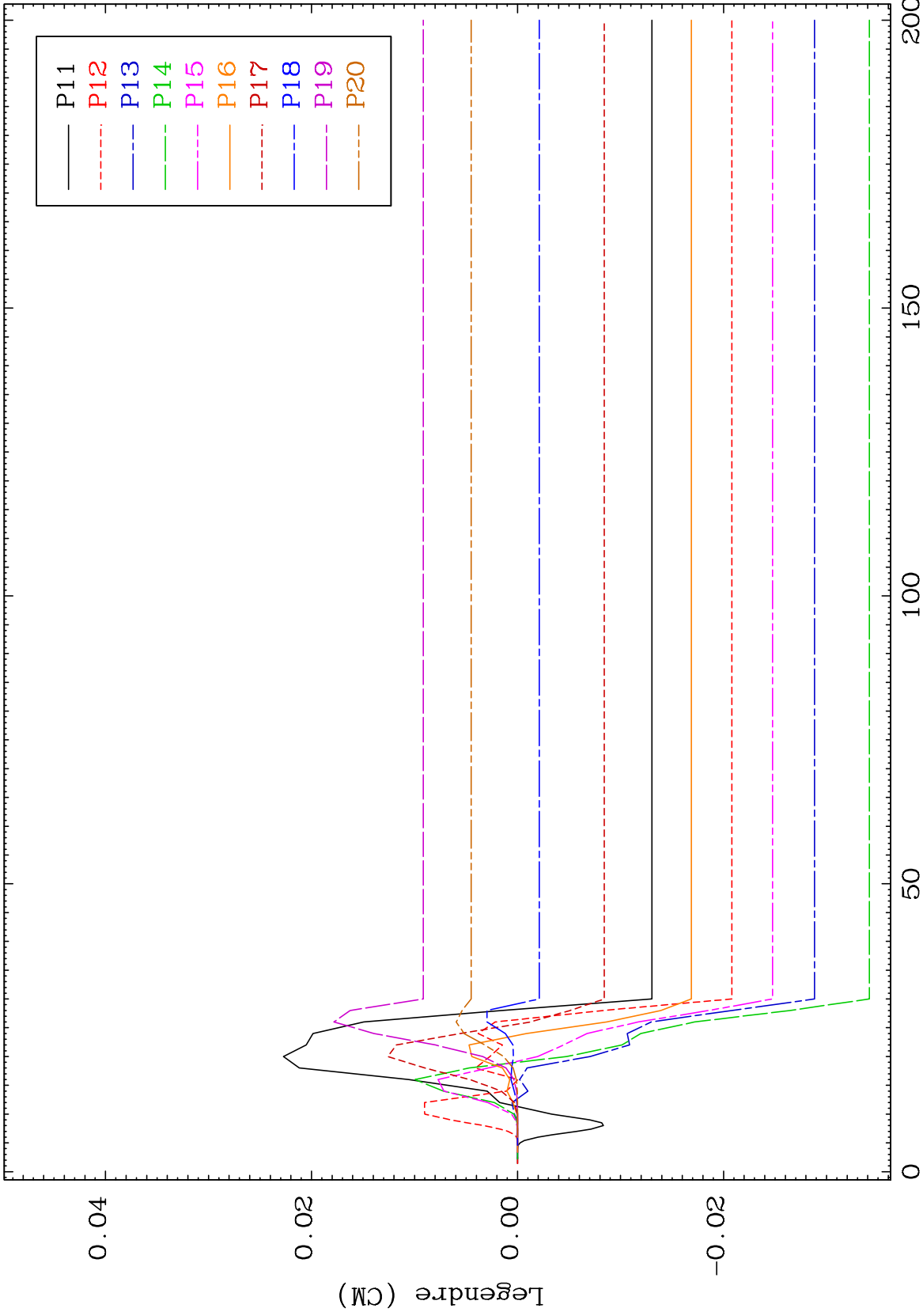
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 57 (n,n') Level  
Legendre Coefficients

85-At-199



44

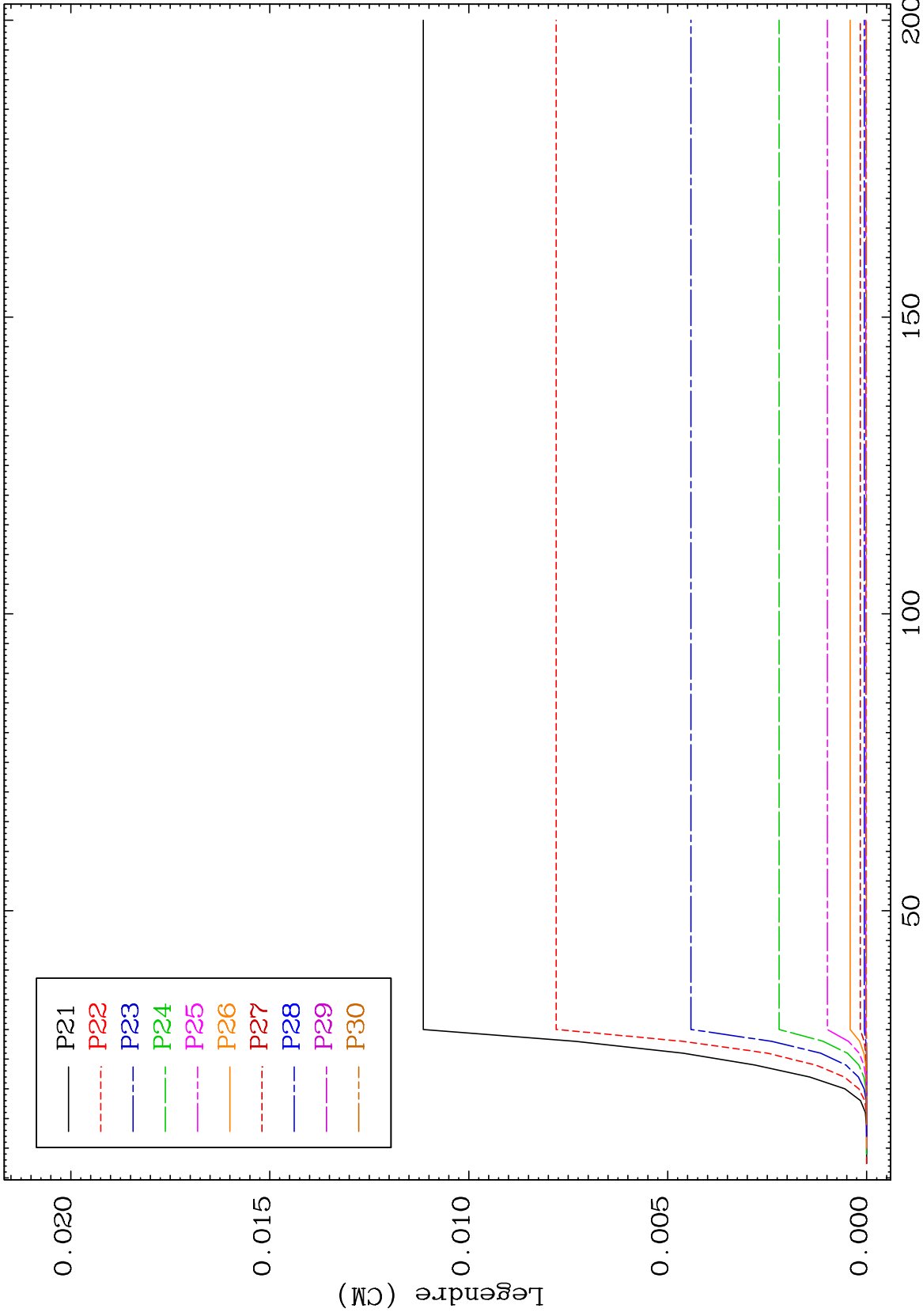
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 57 (n,n') Level  
Legendre Coefficients

85-At-199



45

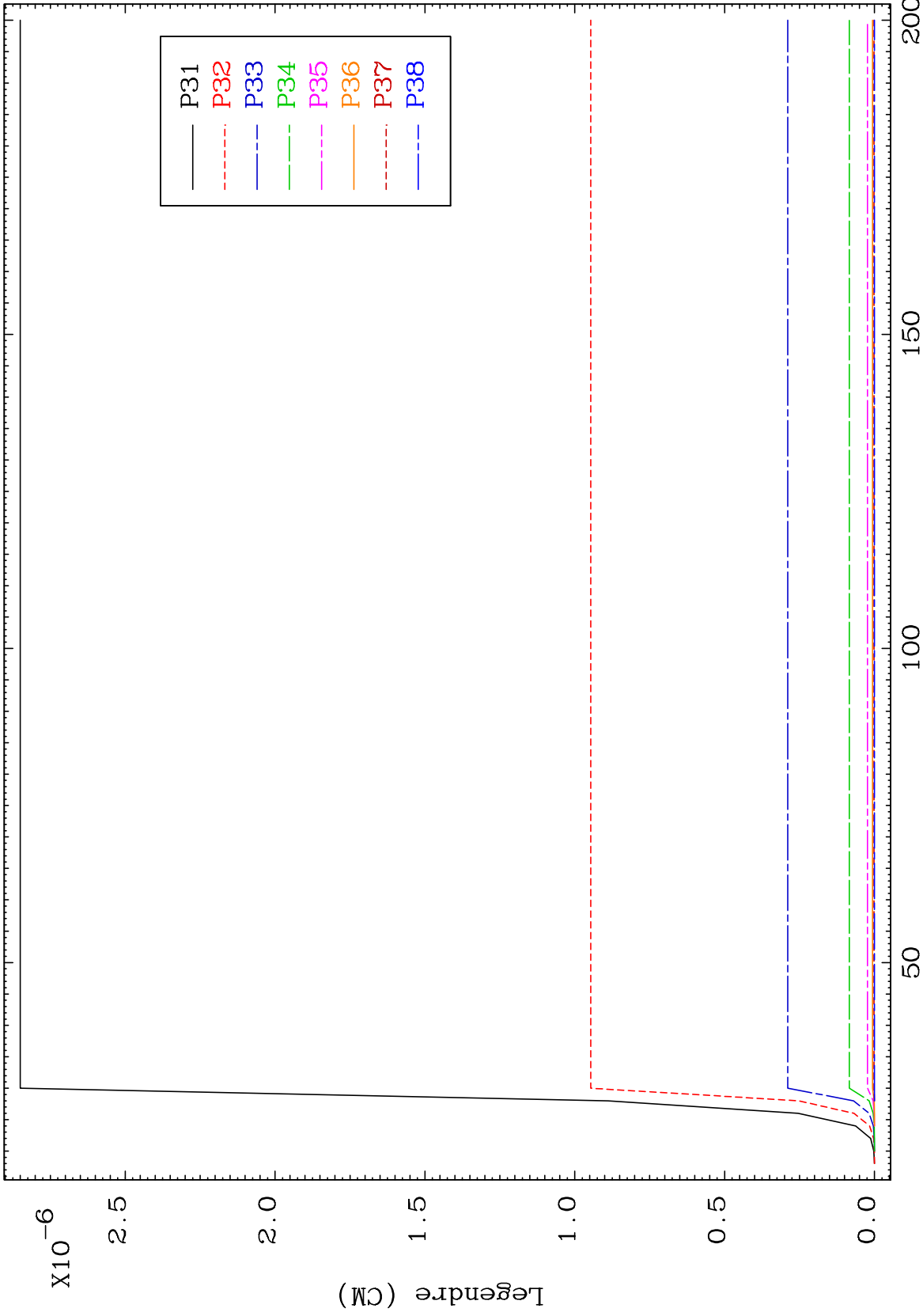
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 57 (n,n') Level  
Legendre Coefficients

85-At-199



46

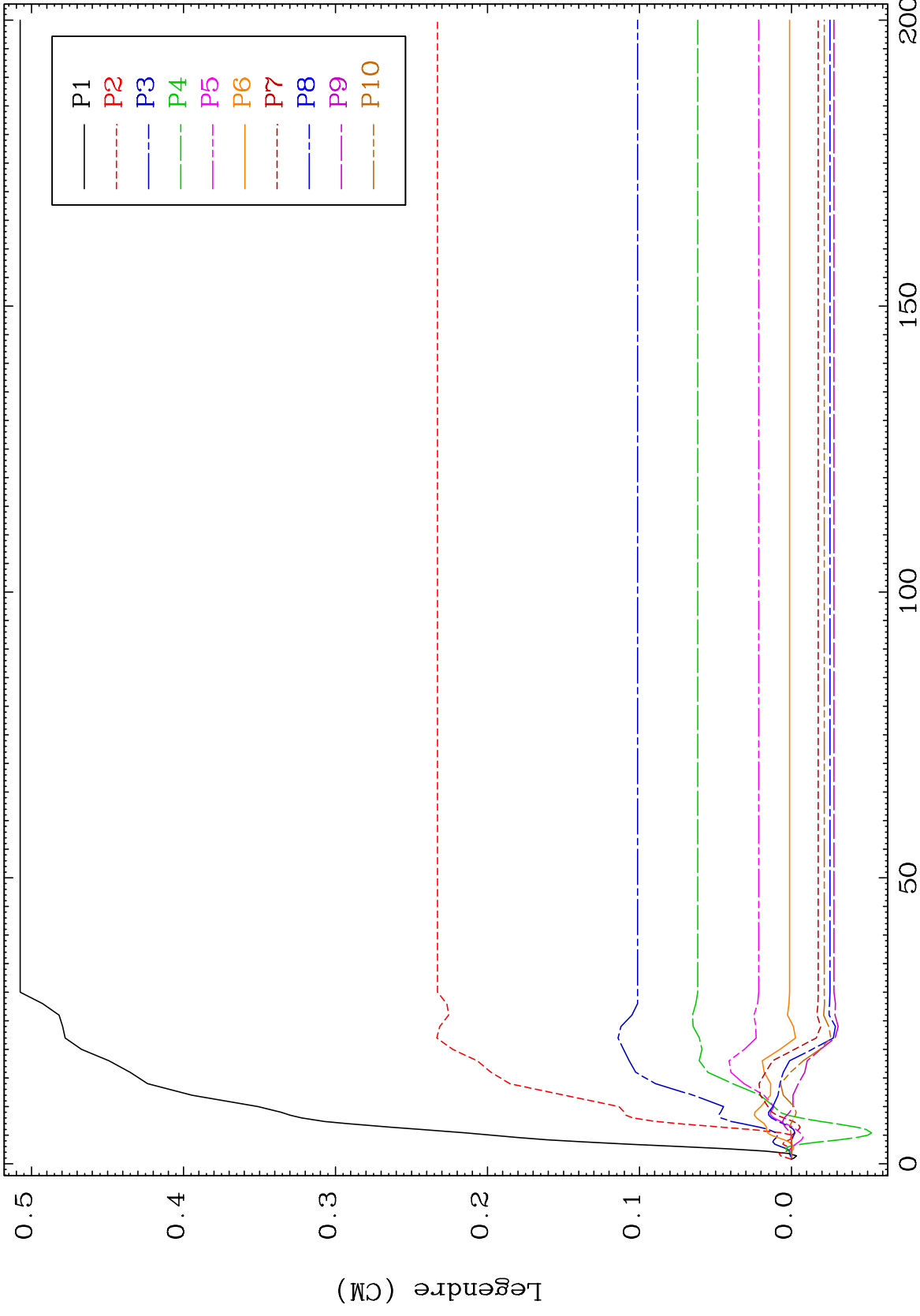
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 58 (n,n') Level  
Legendre Coefficients

85-At-199



47

Incident Energy (MeV)

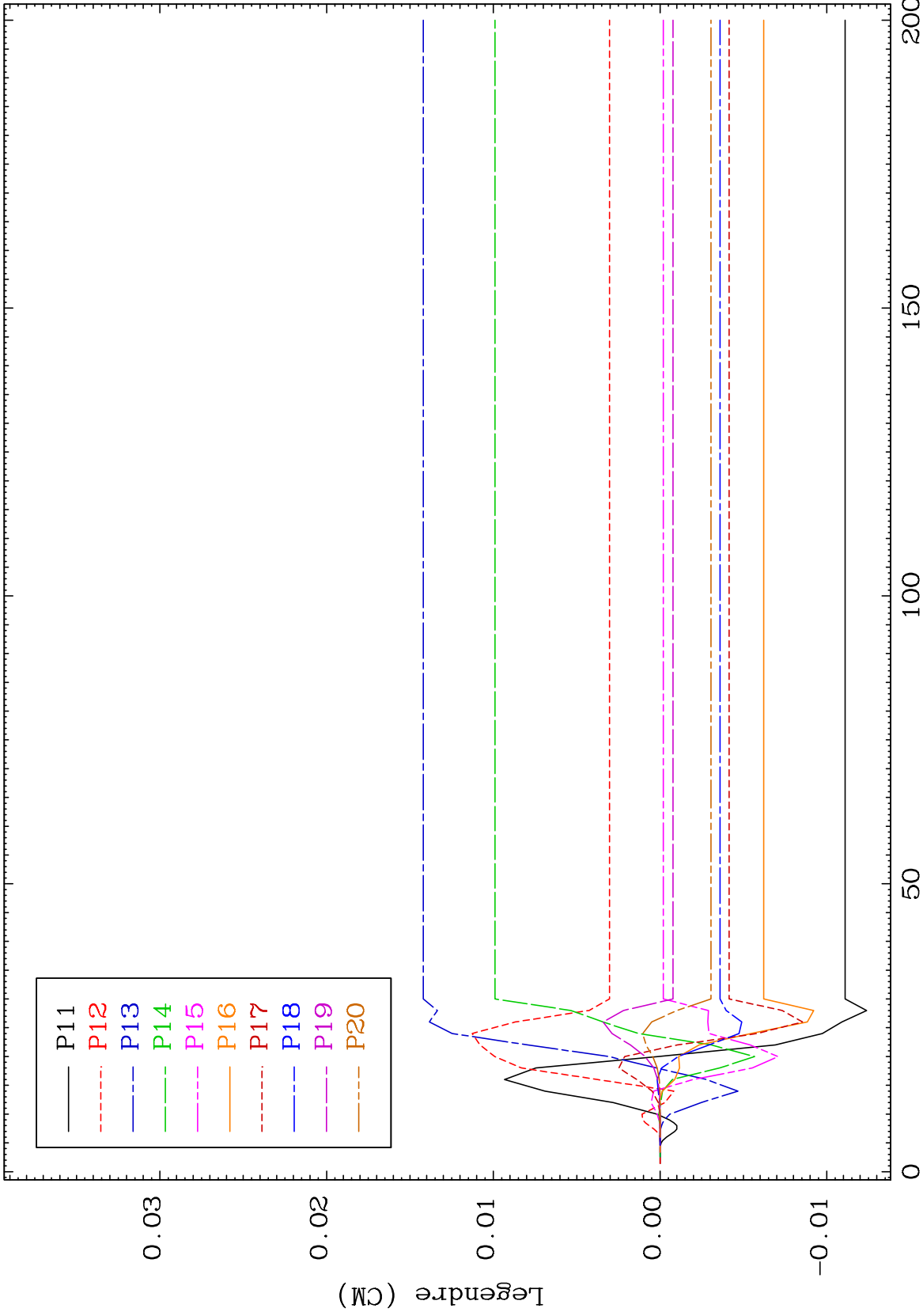
85-At-199



MAT 8513

MT= 58 (n,n') Level  
Legendre Coefficients

85-At-199



48

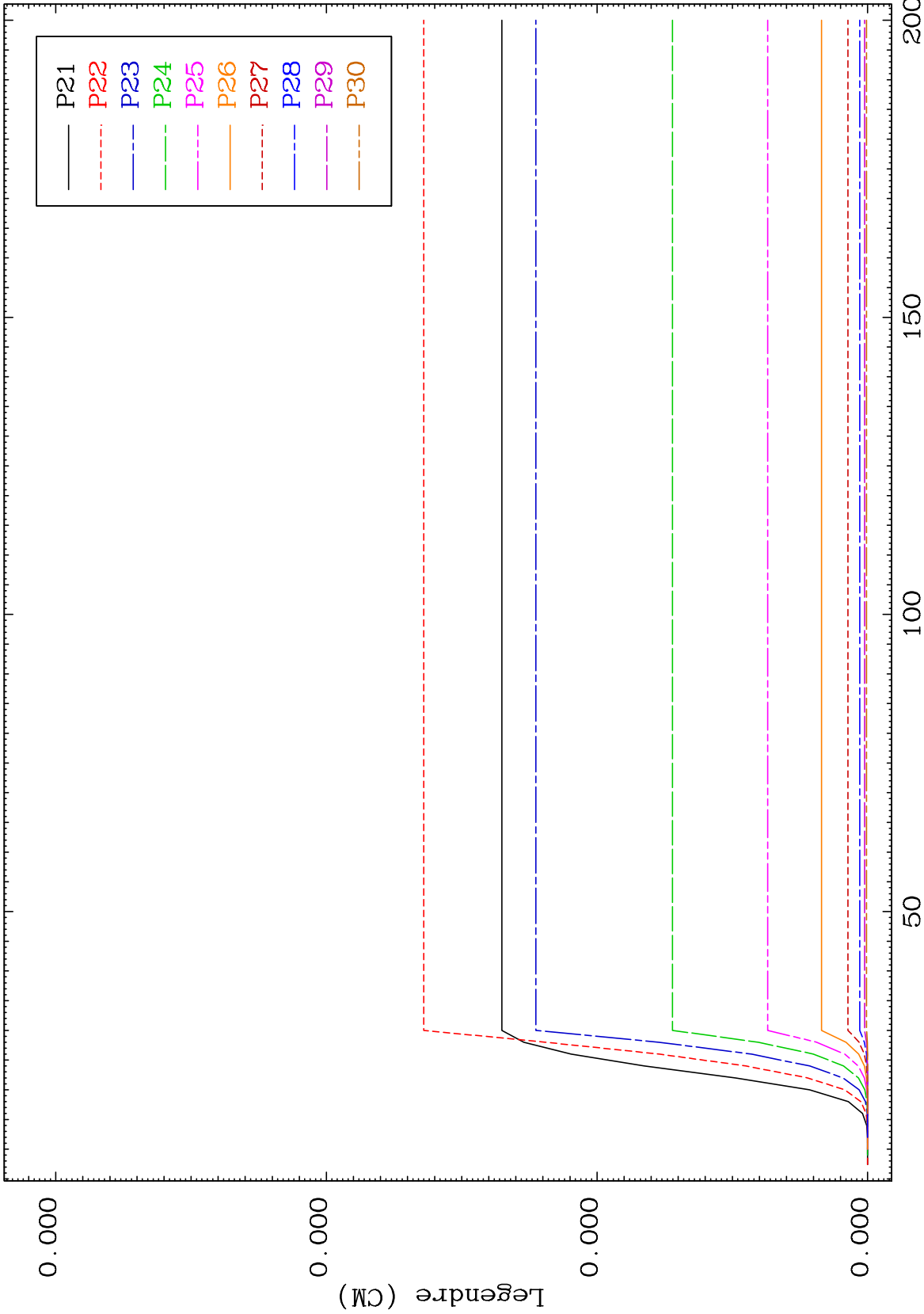
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 58 (n,n') Level  
Legendre Coefficients

85-At-199



49

Incident Energy (MeV)

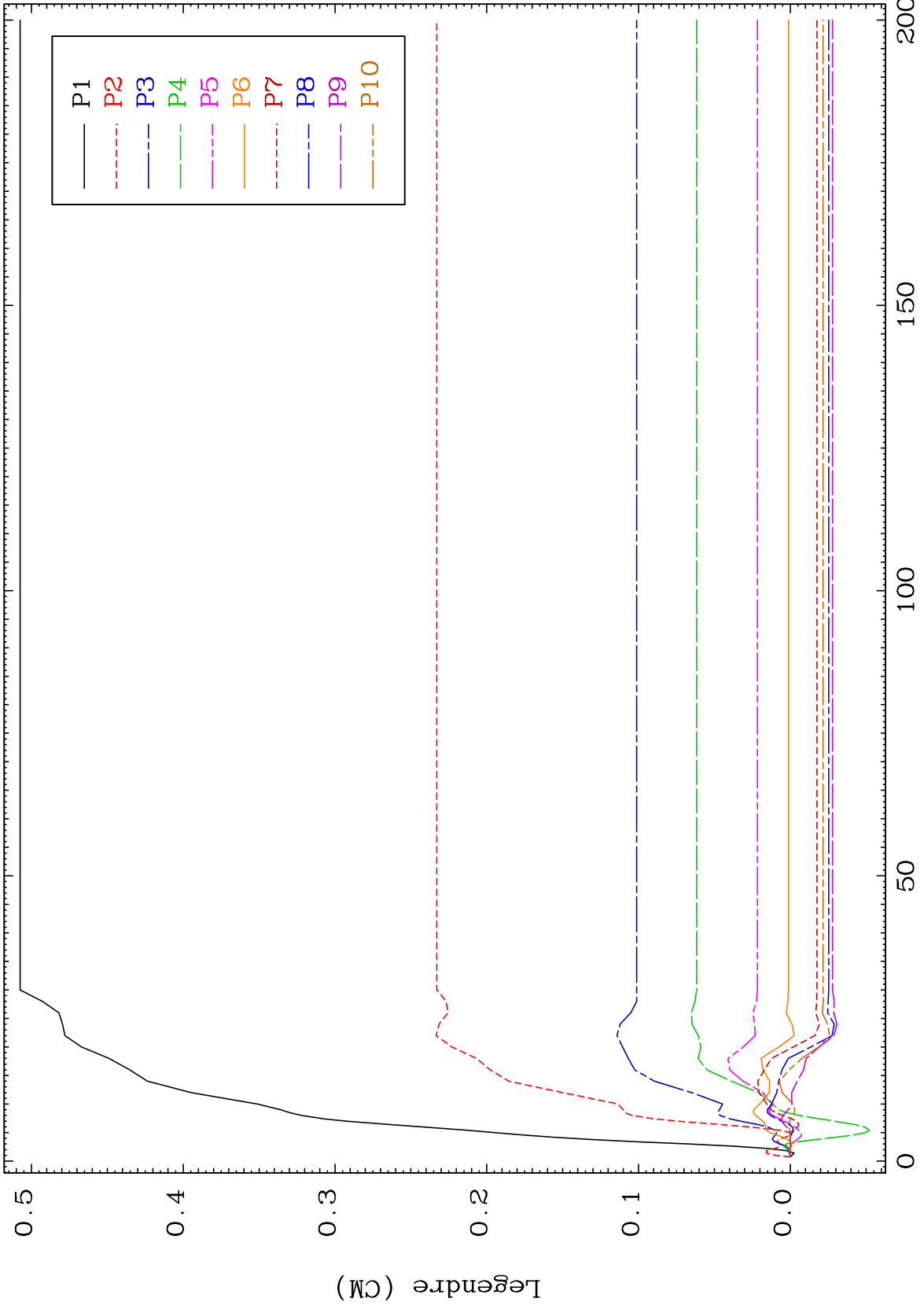
85-At-199



MAT 8513

MT= 59 (n,n') Level  
Legendre Coefficients

85-At-199



51

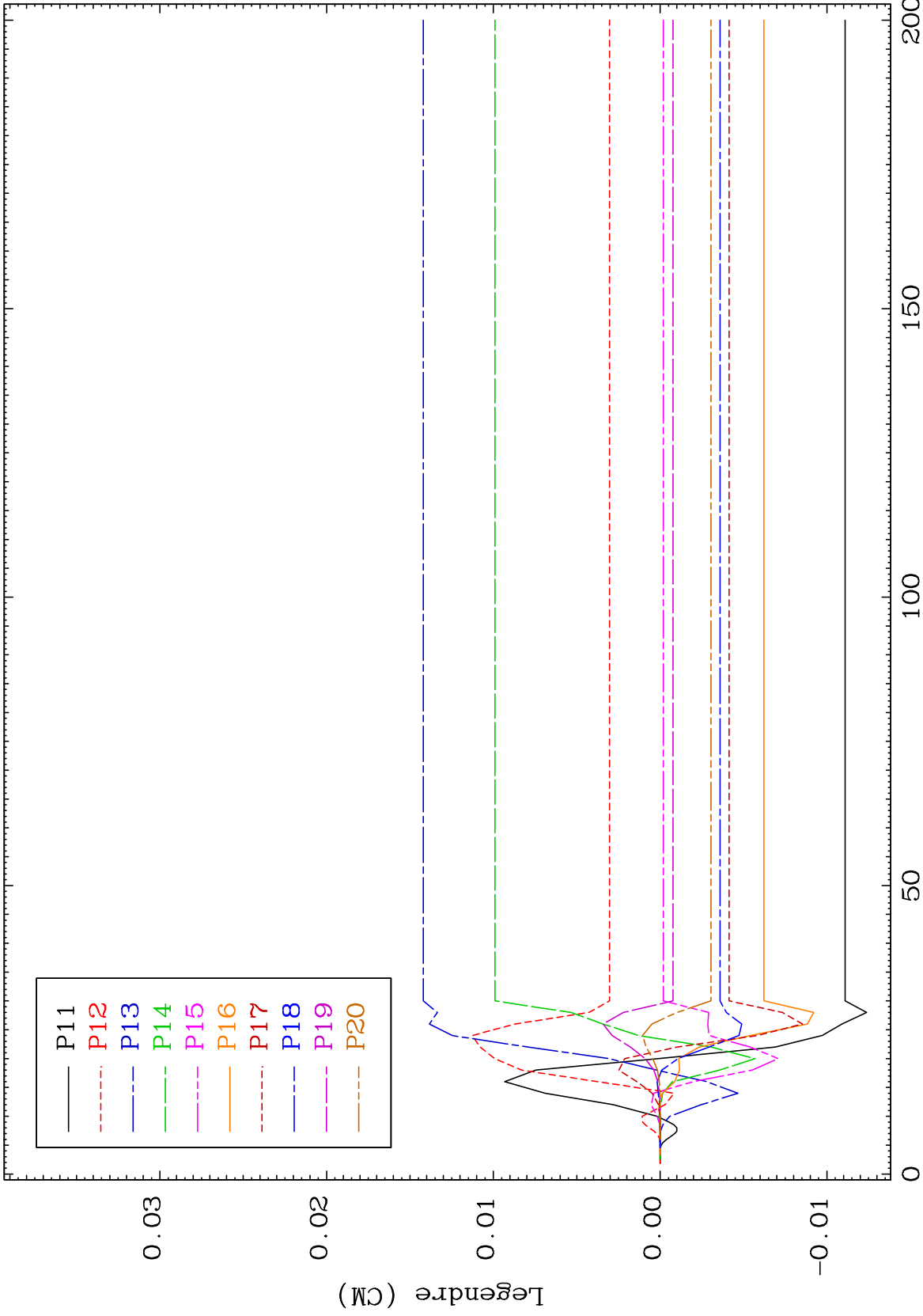
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 59 (n,n') Level  
Legendre Coefficients

85-At-199



52

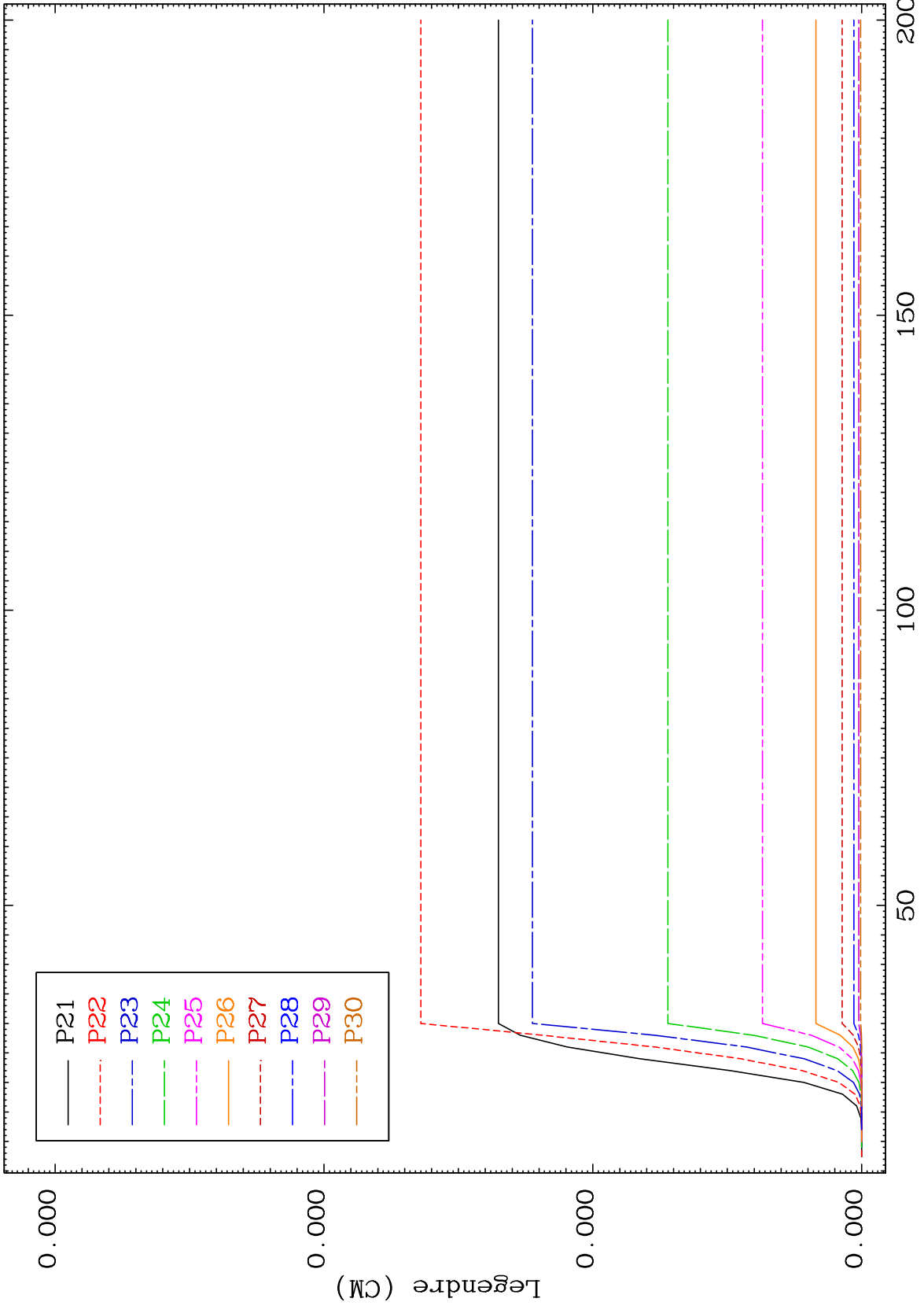
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 59 (n,n') Level  
Legendre Coefficients

85-At-199



53

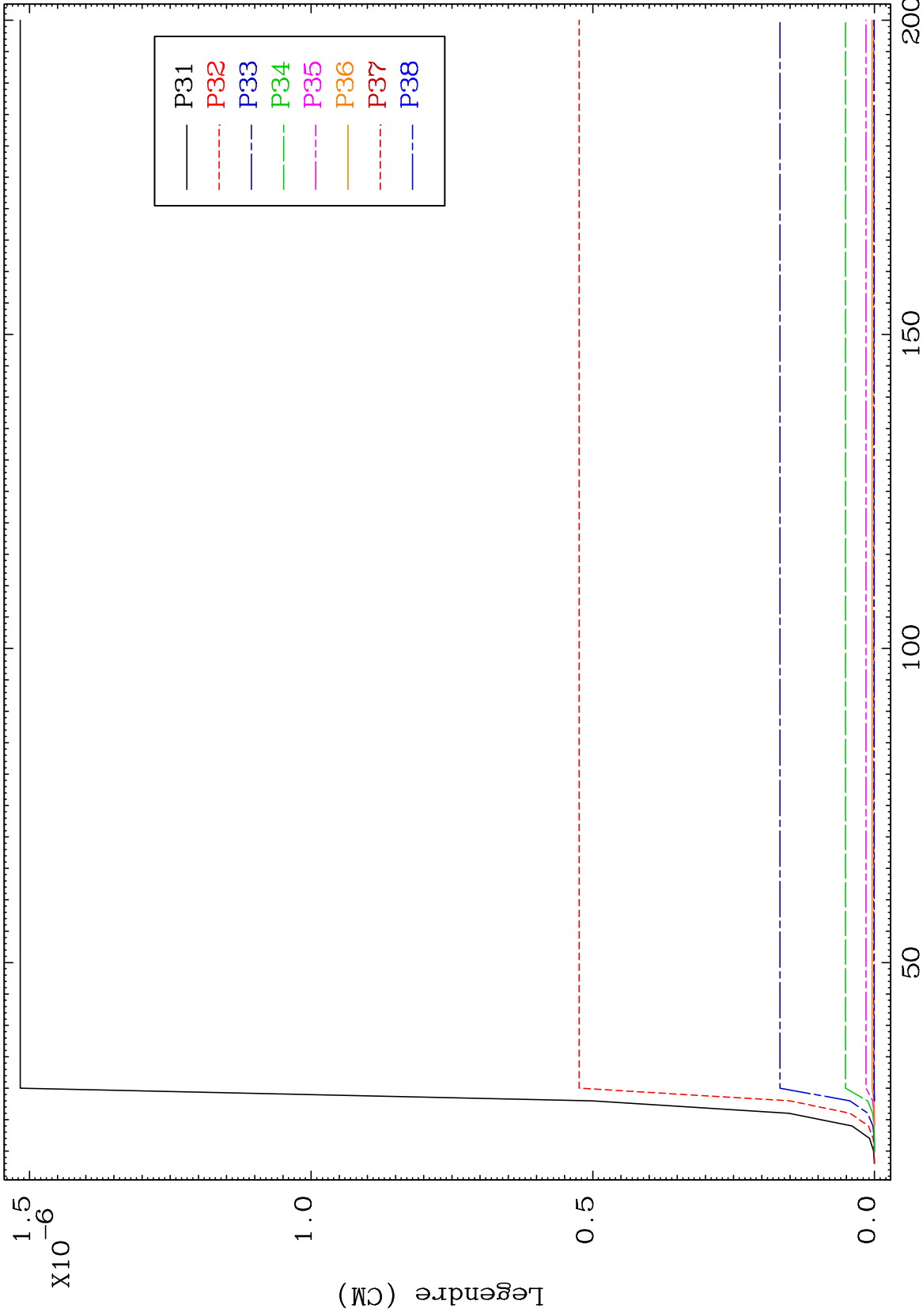
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 59 (n,n') Level  
Legendre Coefficients

85-At-199



54

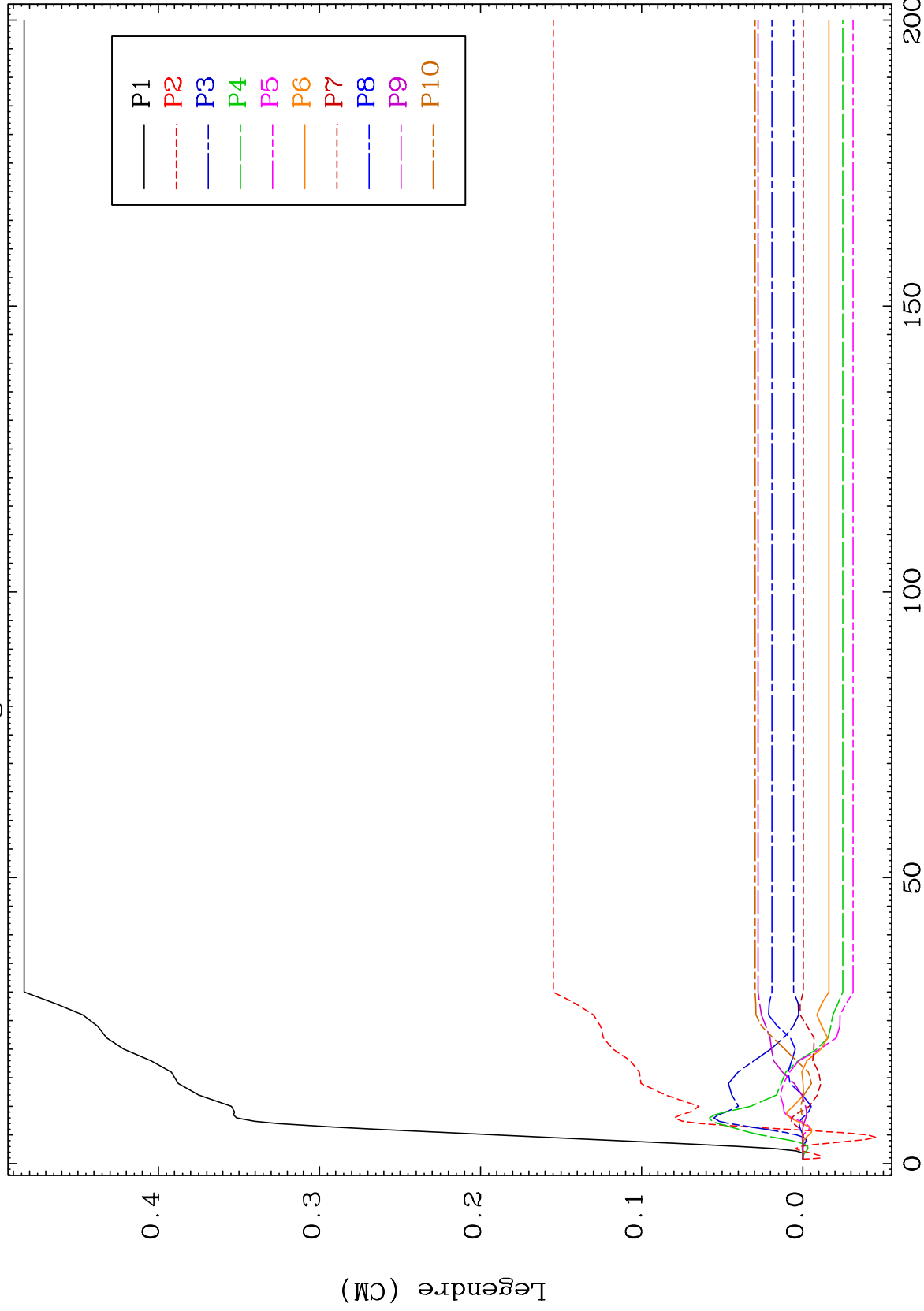
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 60 (n,n') Level  
Legendre Coefficients

85-At-199



55

Incident Energy (MeV)

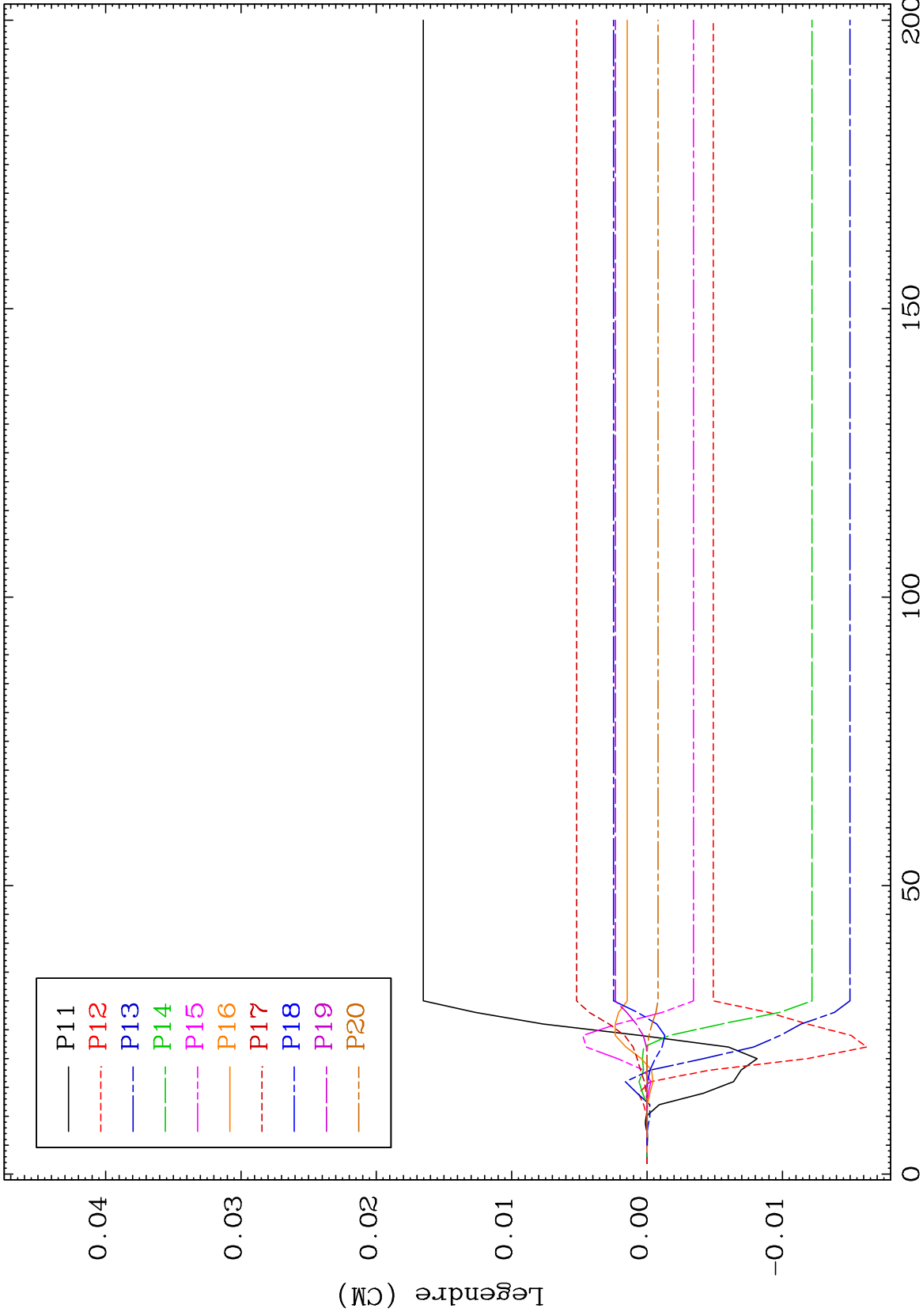
85-At-199



MAT 8513

MT= 60 (n,n') Level  
Legendre Coefficients

85-At-199



56

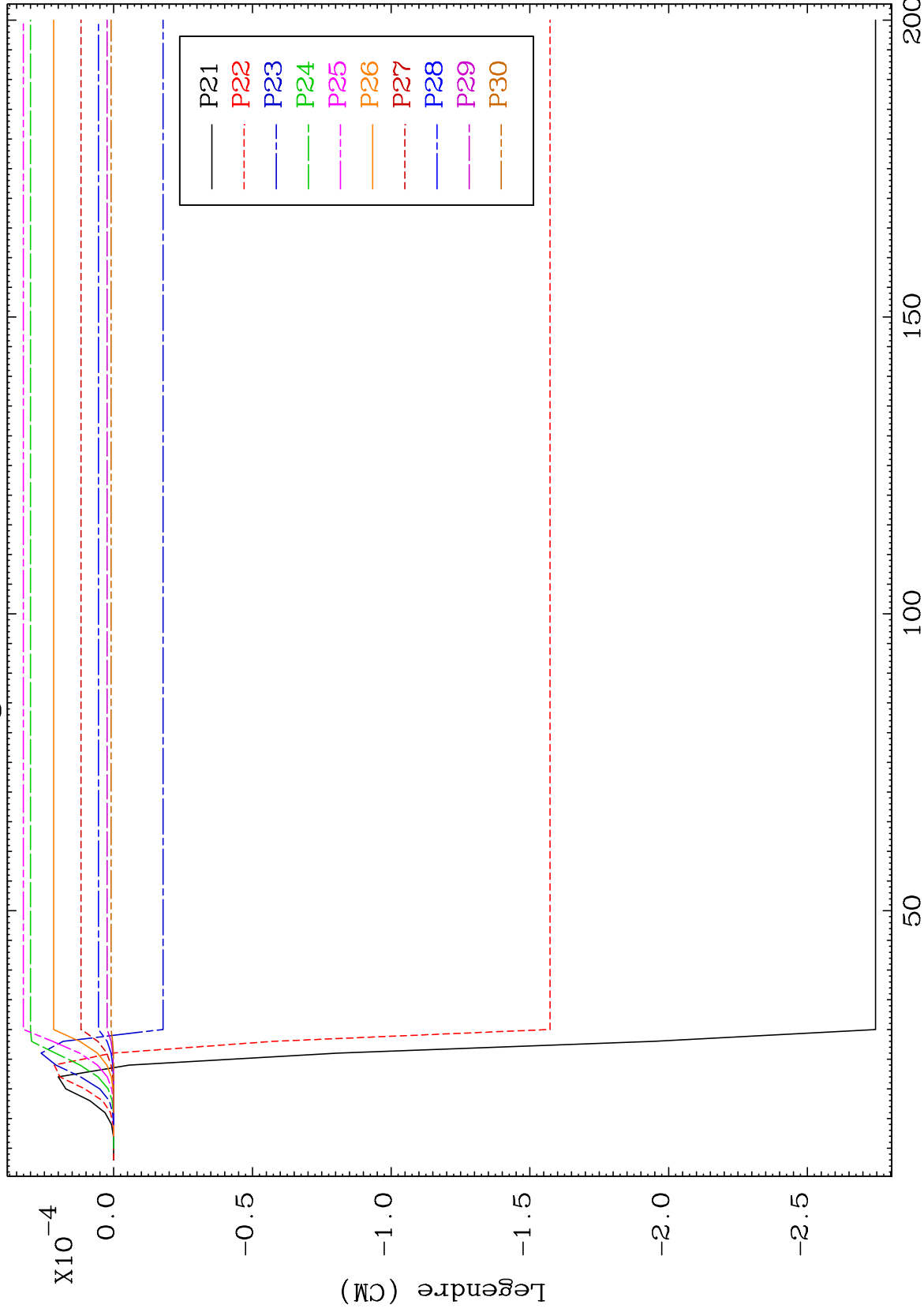
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 60 (n,n') Level  
Legendre Coefficients

85-At-199



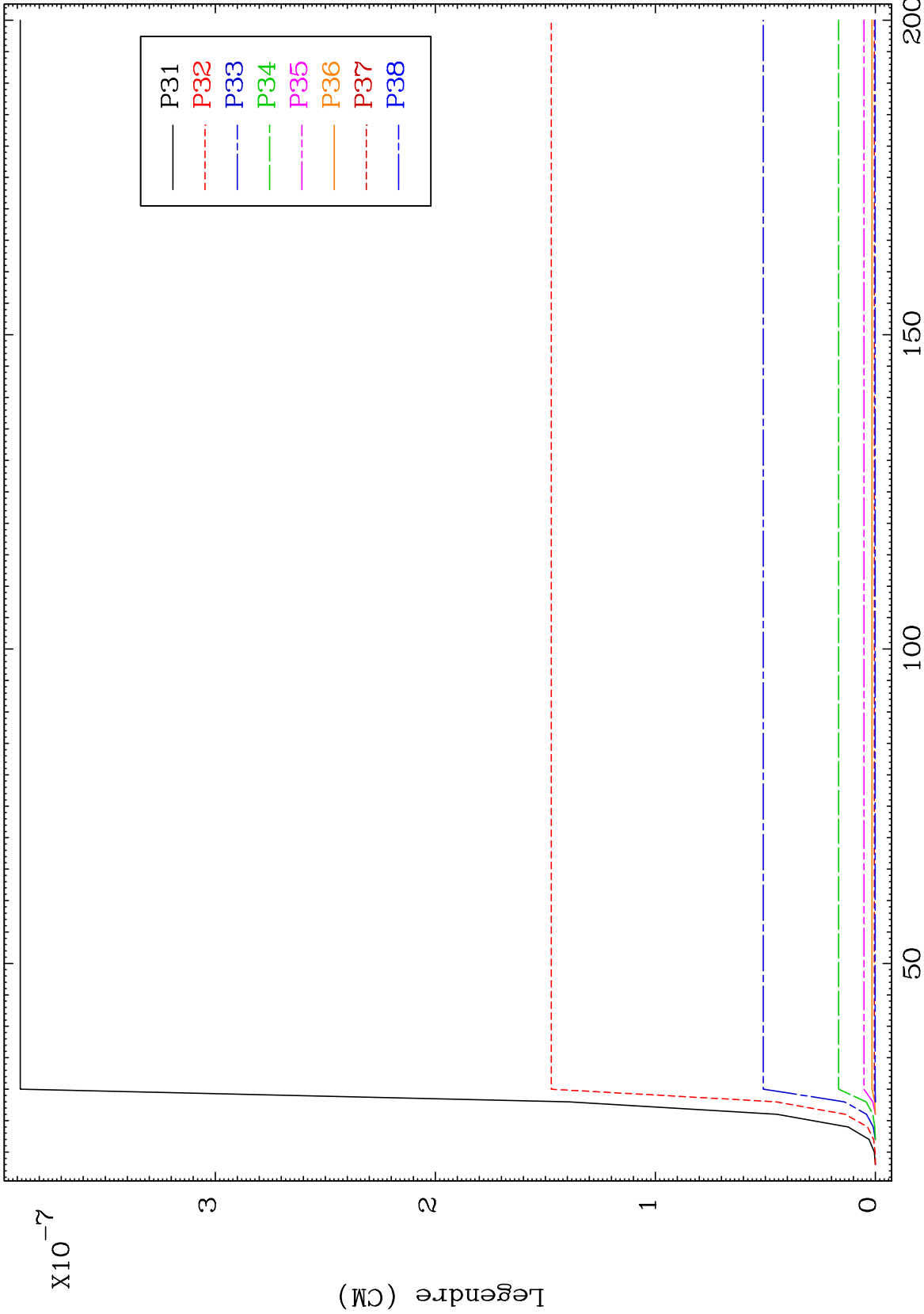
57

85-At-199

MAT 8513

MT= 60 (n,n') Level  
Legendre Coefficients

85-At-199



58

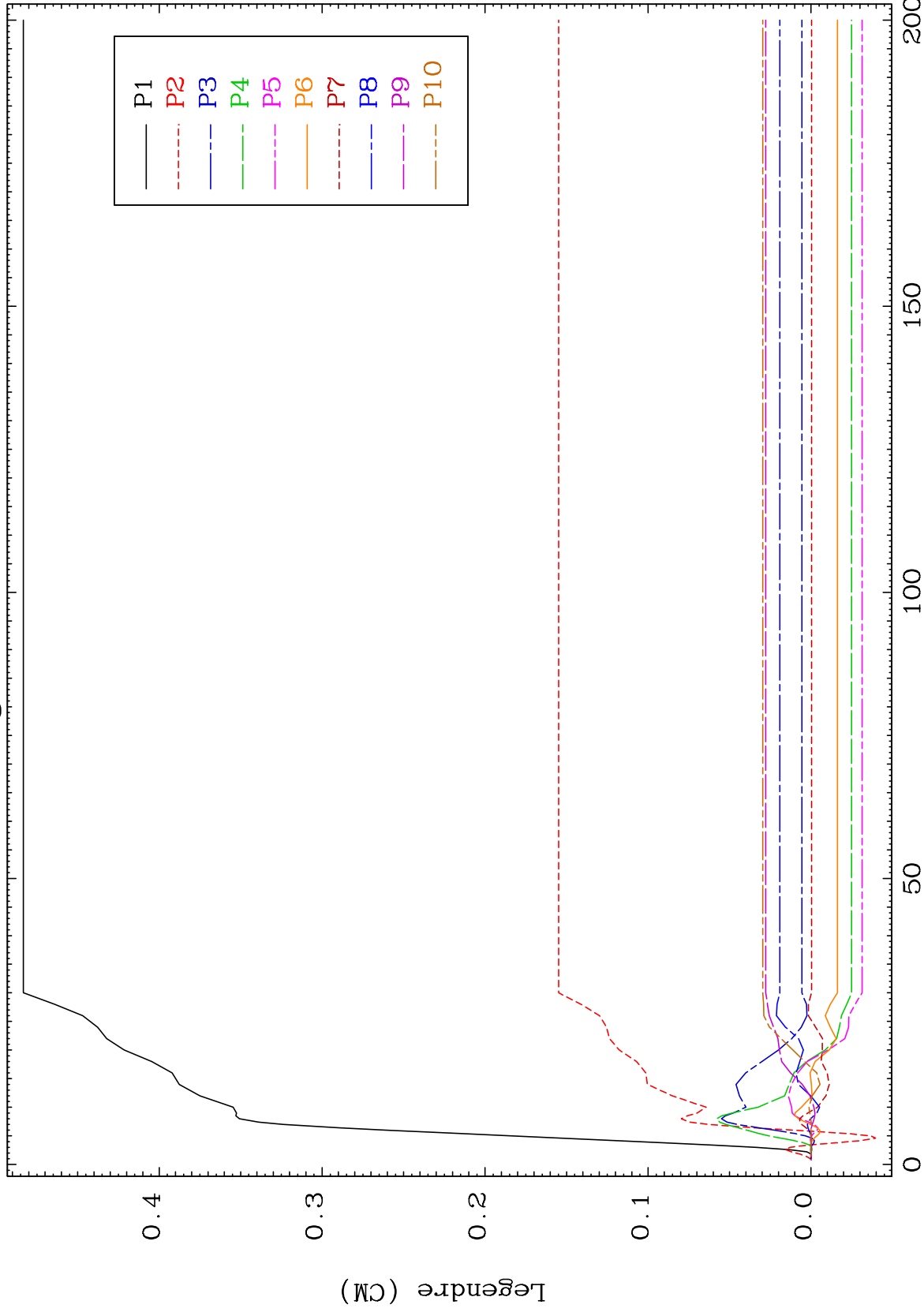
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 61 (n,n') Level  
Legendre Coefficients

85-At-199



59

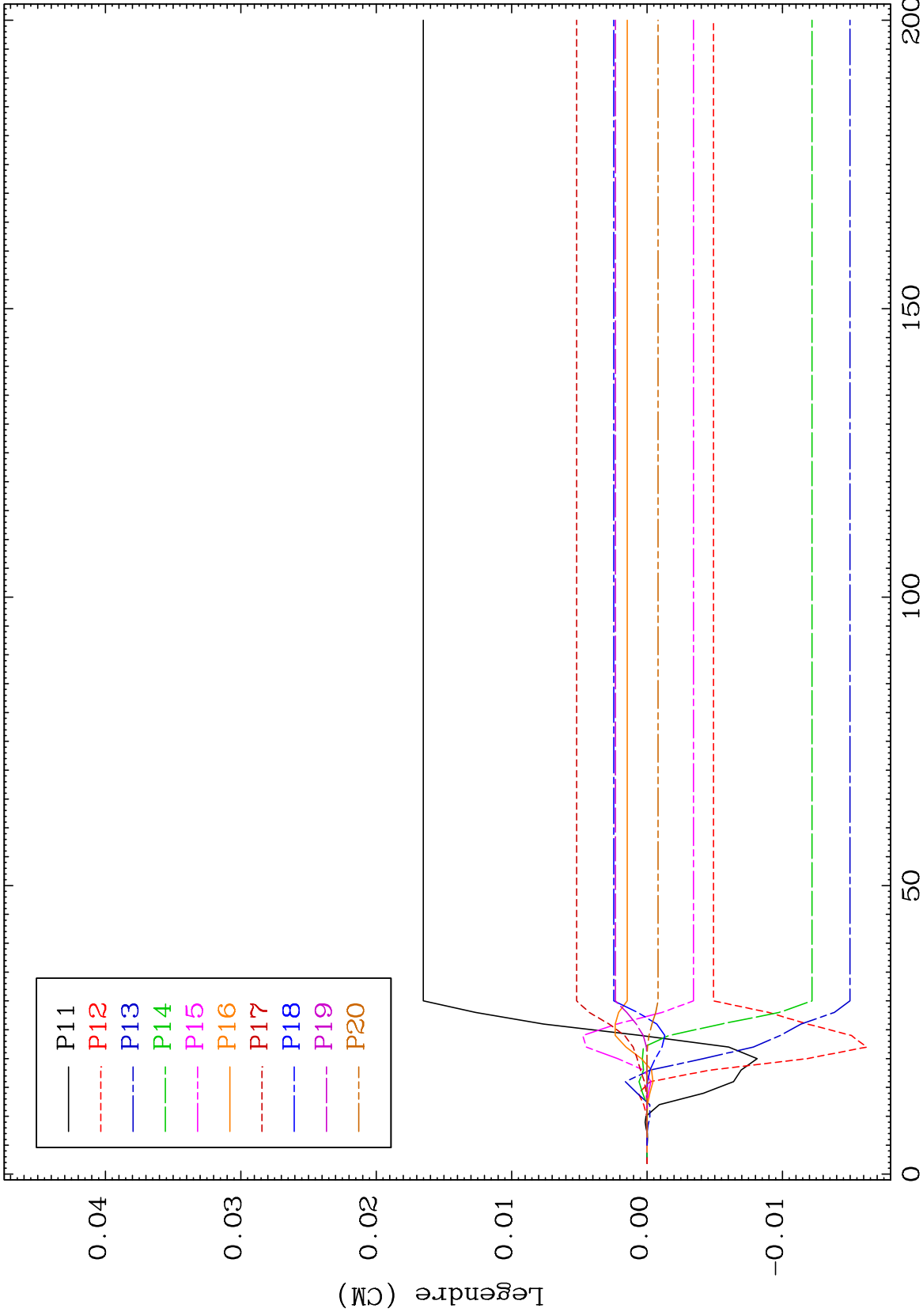
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 61 (n,n') Level  
Legendre Coefficients

85-At-199



60

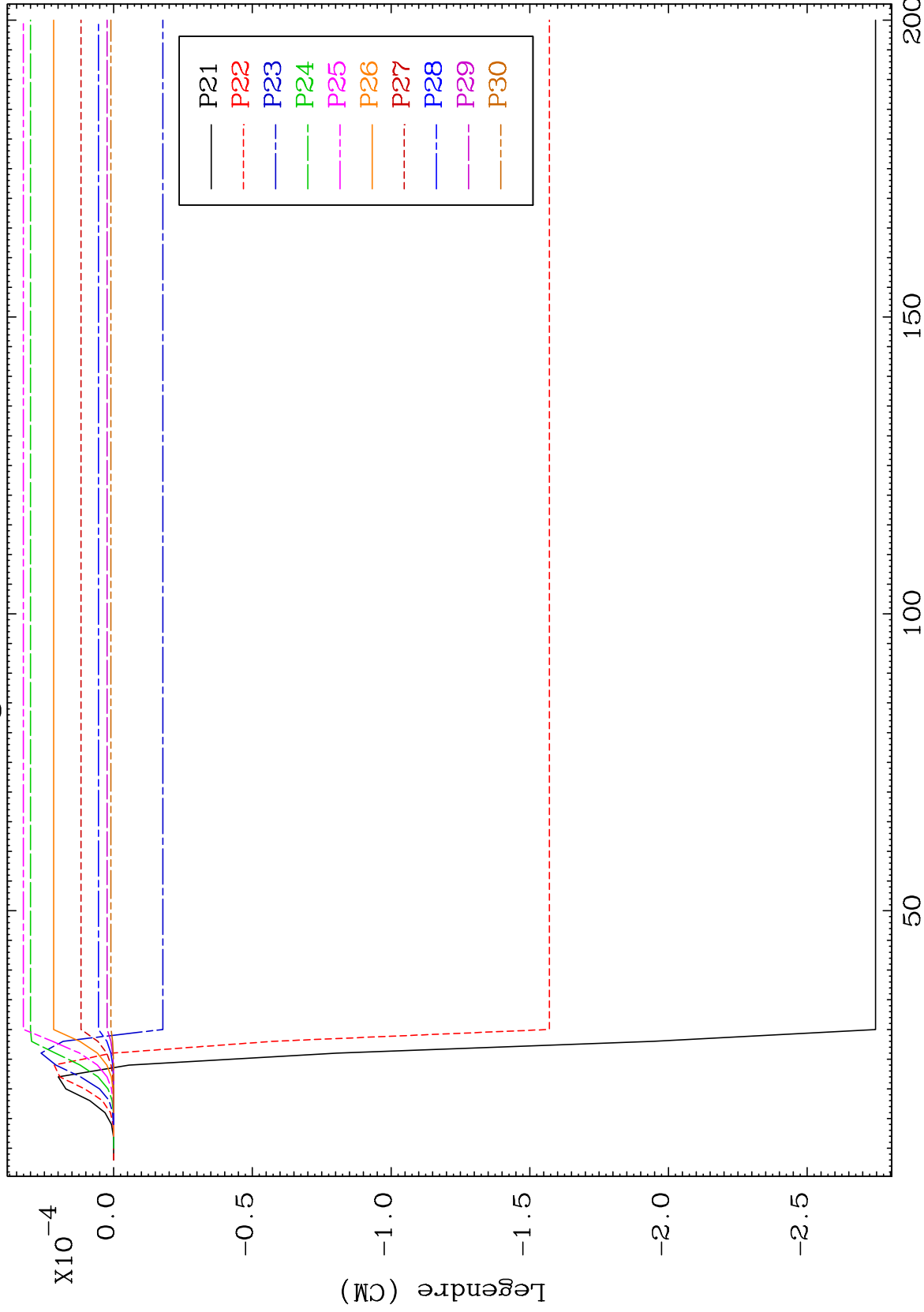
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 61 (n,n') Level  
Legendre Coefficients

85-At-199



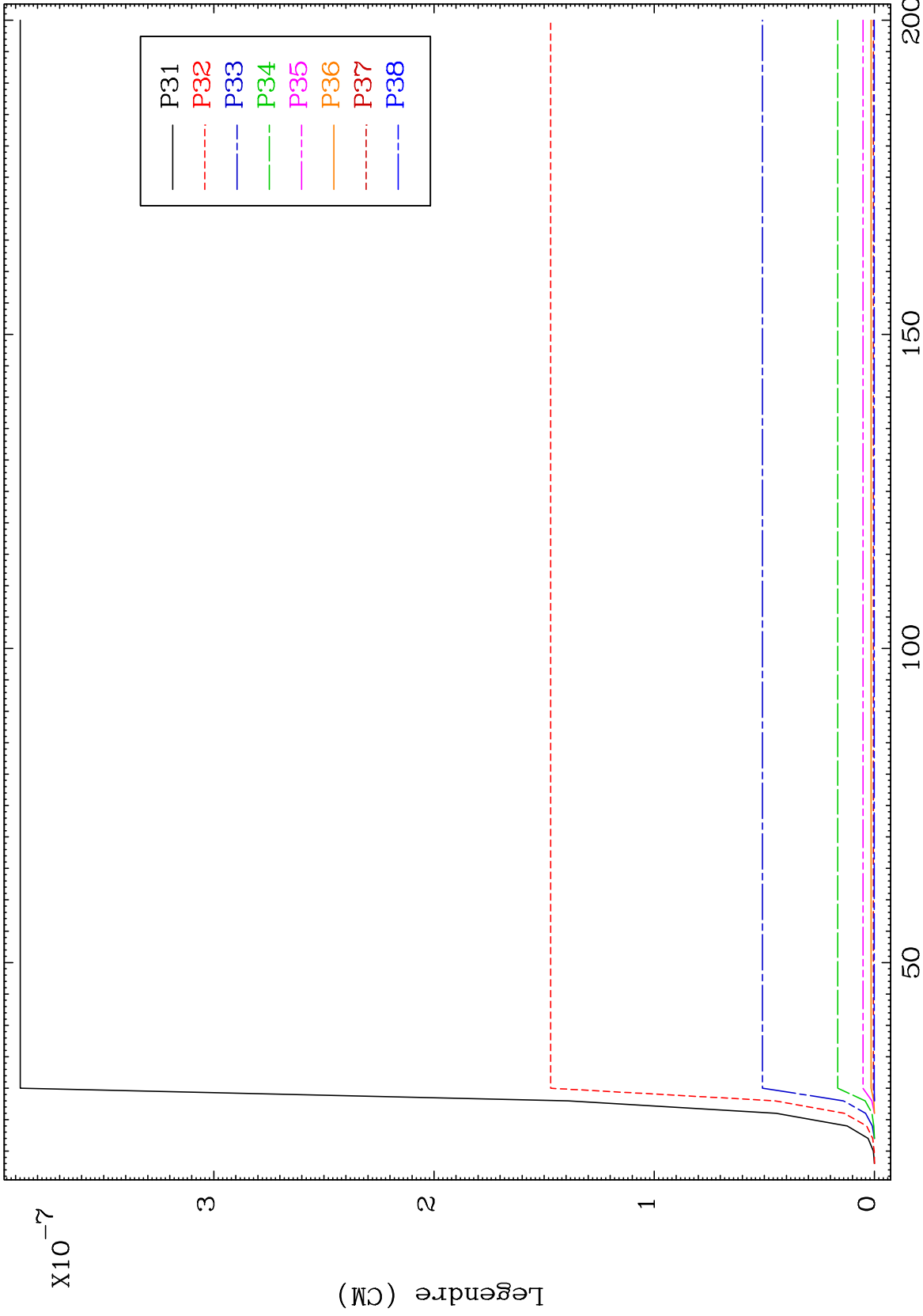
61

85-At-199

MAT 8513

MT= 61 (n,n') Level  
Legendre Coefficients

85-At-199



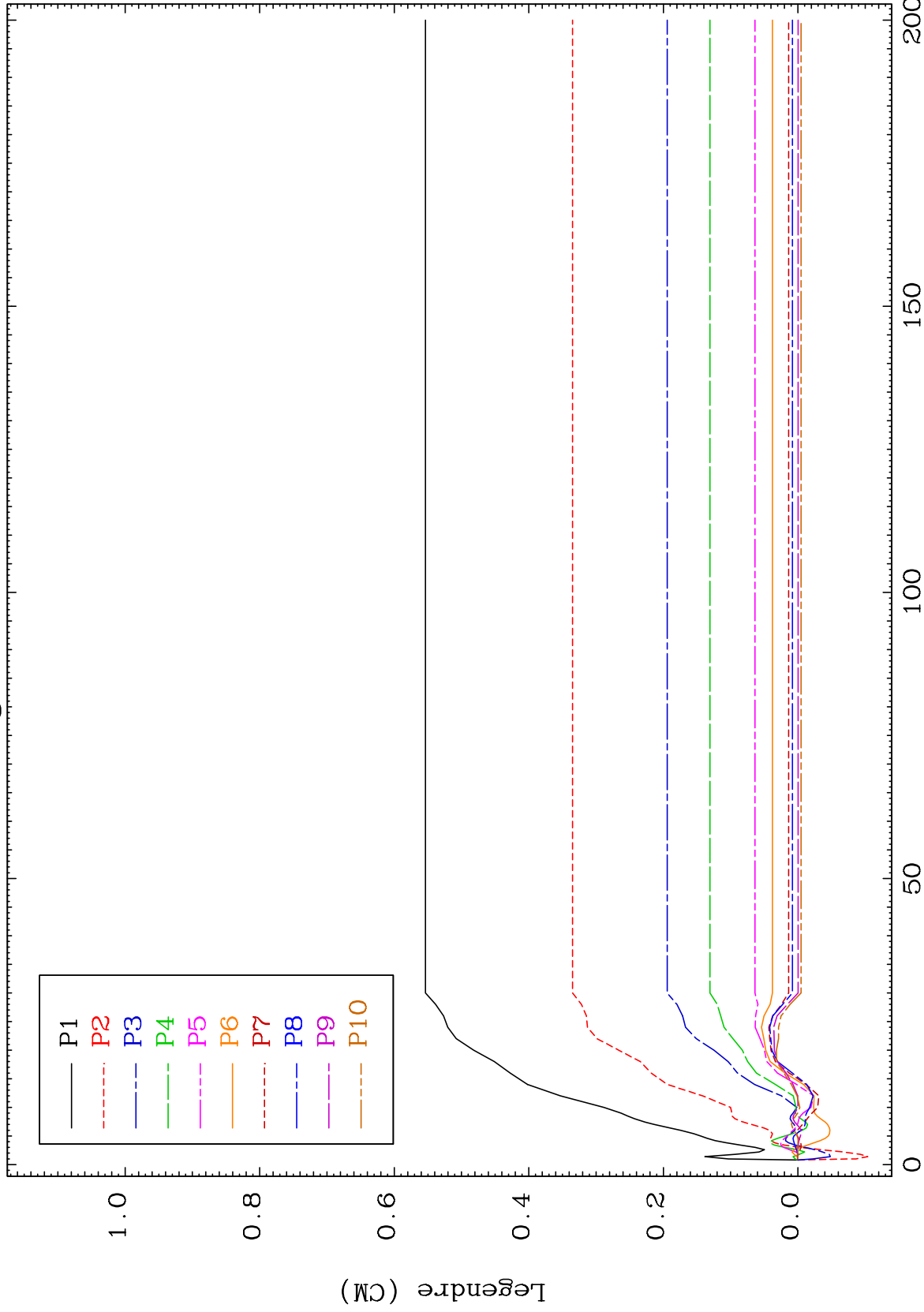
62

85-At-199

MAT 8513

MT= 62 (n,n') Level  
Legendre Coefficients

85-At-199



63

Incident Energy (MeV)

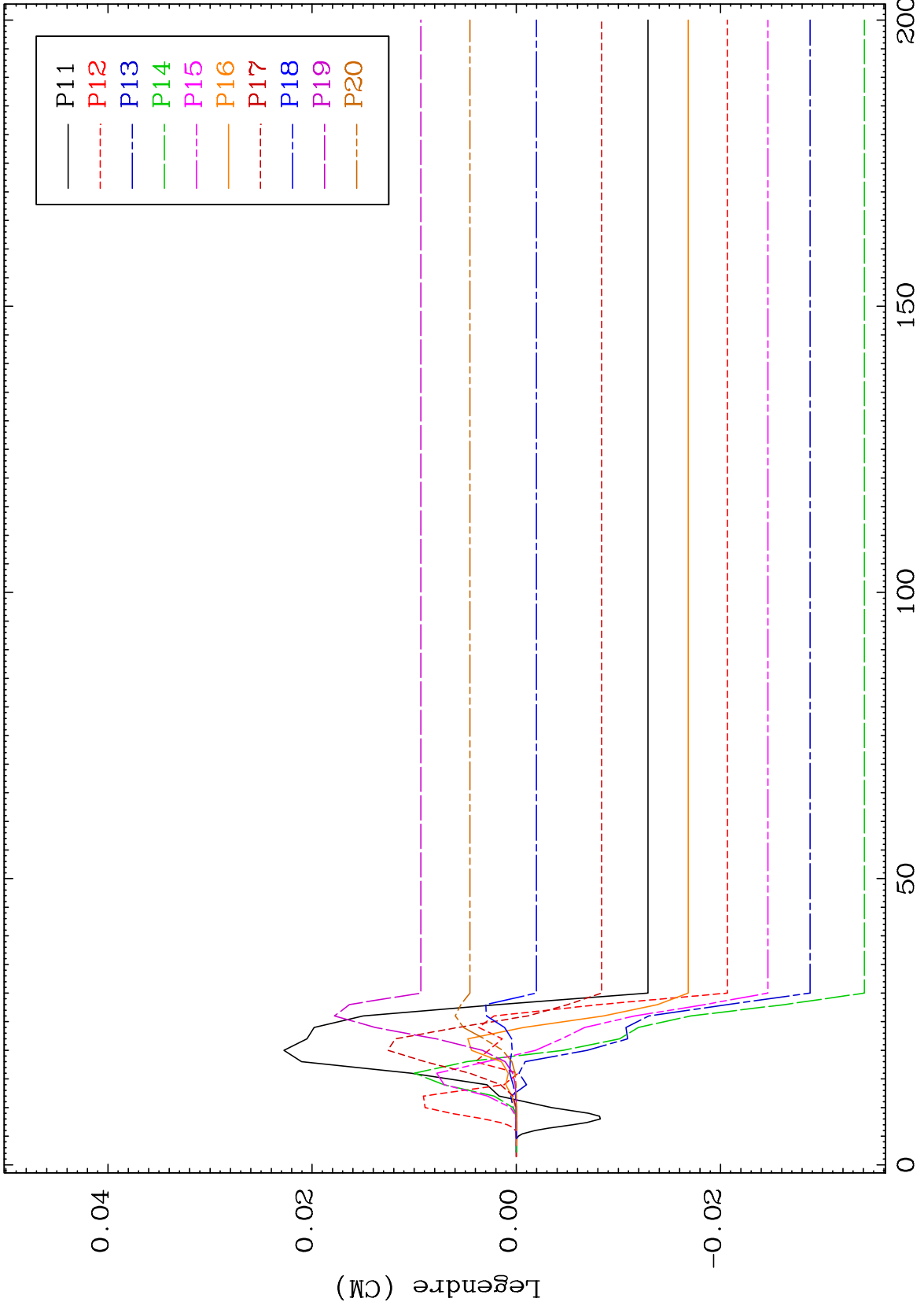
85-At-199



MAT 8513

MT= 62 (n,n') Level  
Legendre Coefficients

85-At-199



64

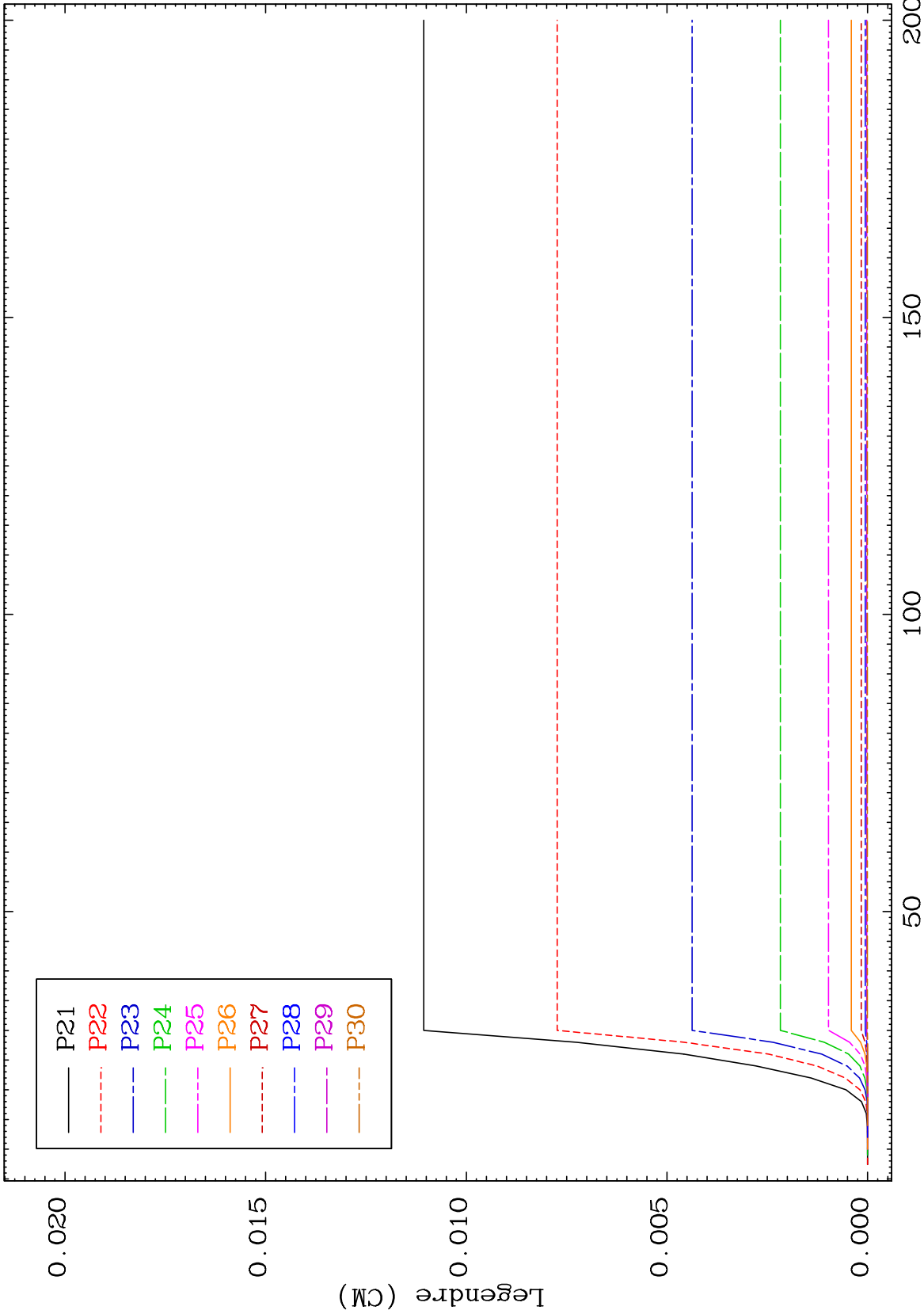
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 62 (n,n') Level  
Legendre Coefficients

85-At-199



65

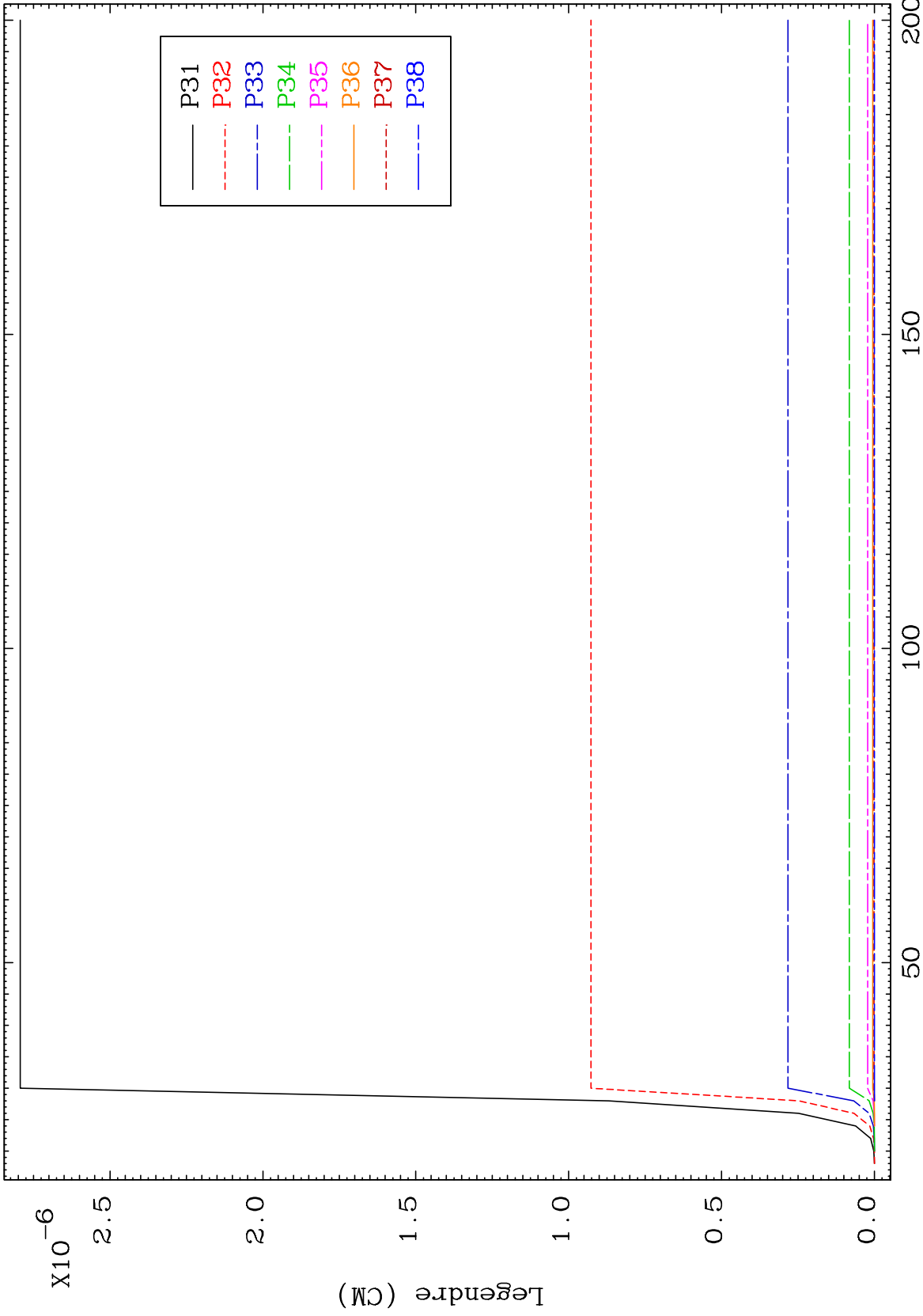
Incident Energy (MeV)

85-At-199

MAT 8513

MT= 62 (n,n') Level  
Legendre Coefficients

85-At-199



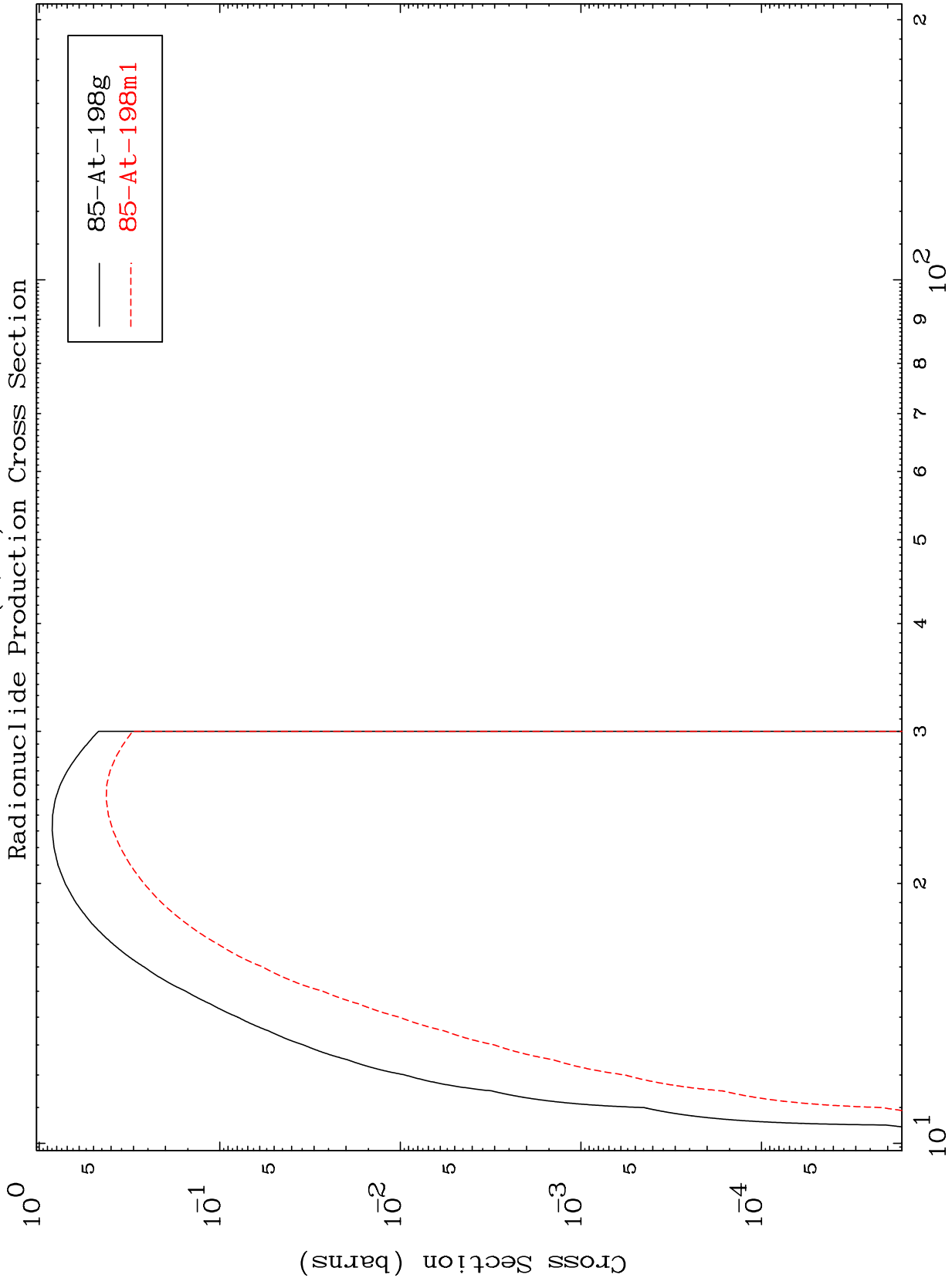
66

85-At-199

MAT 8513

(n,2n)

85-At-199



85-At-199

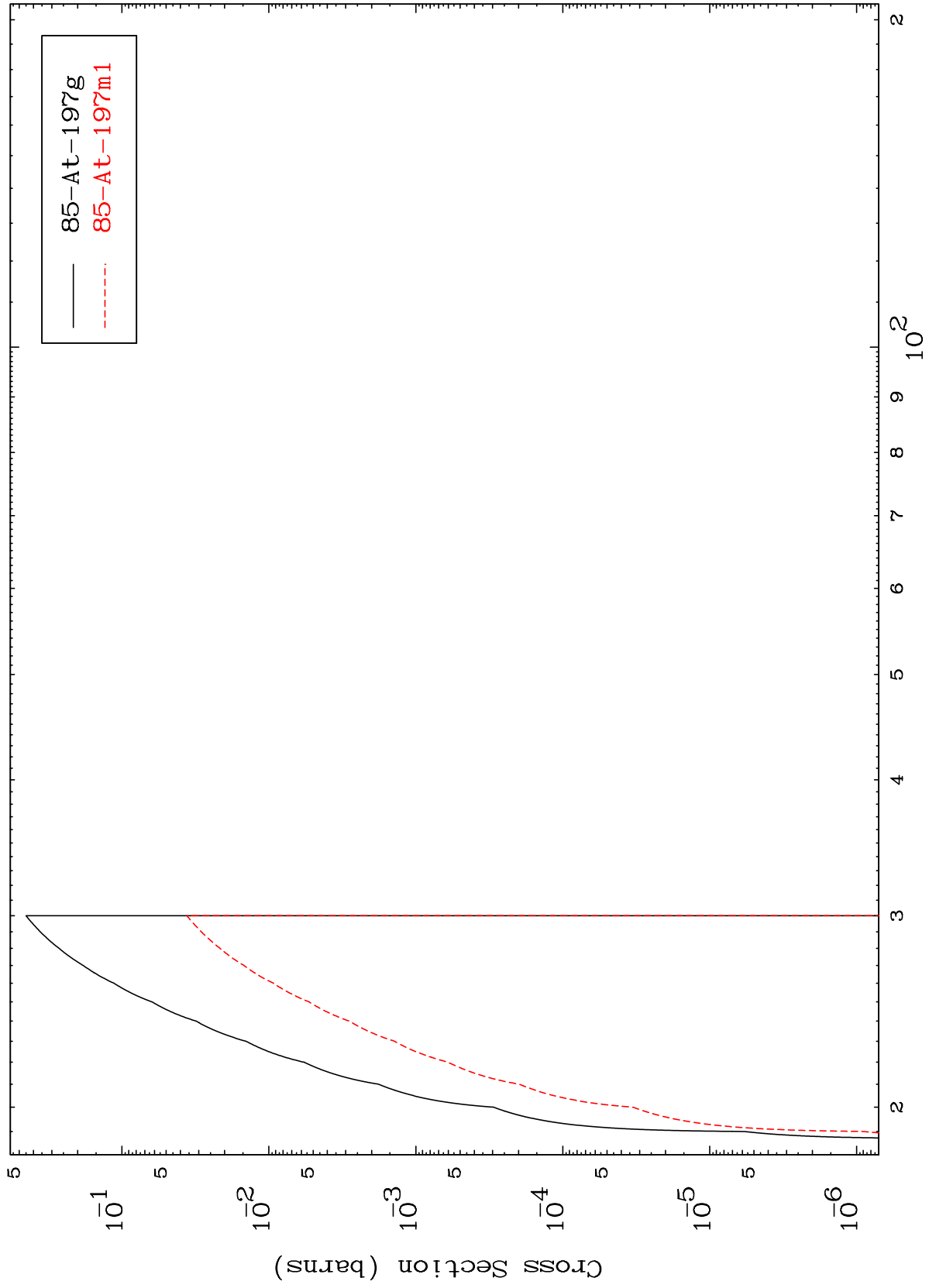
Incident Energy (MeV)

67

MAT 8513

85-At-199

(n,3n)  
Radionuclide Production Cross Section



68

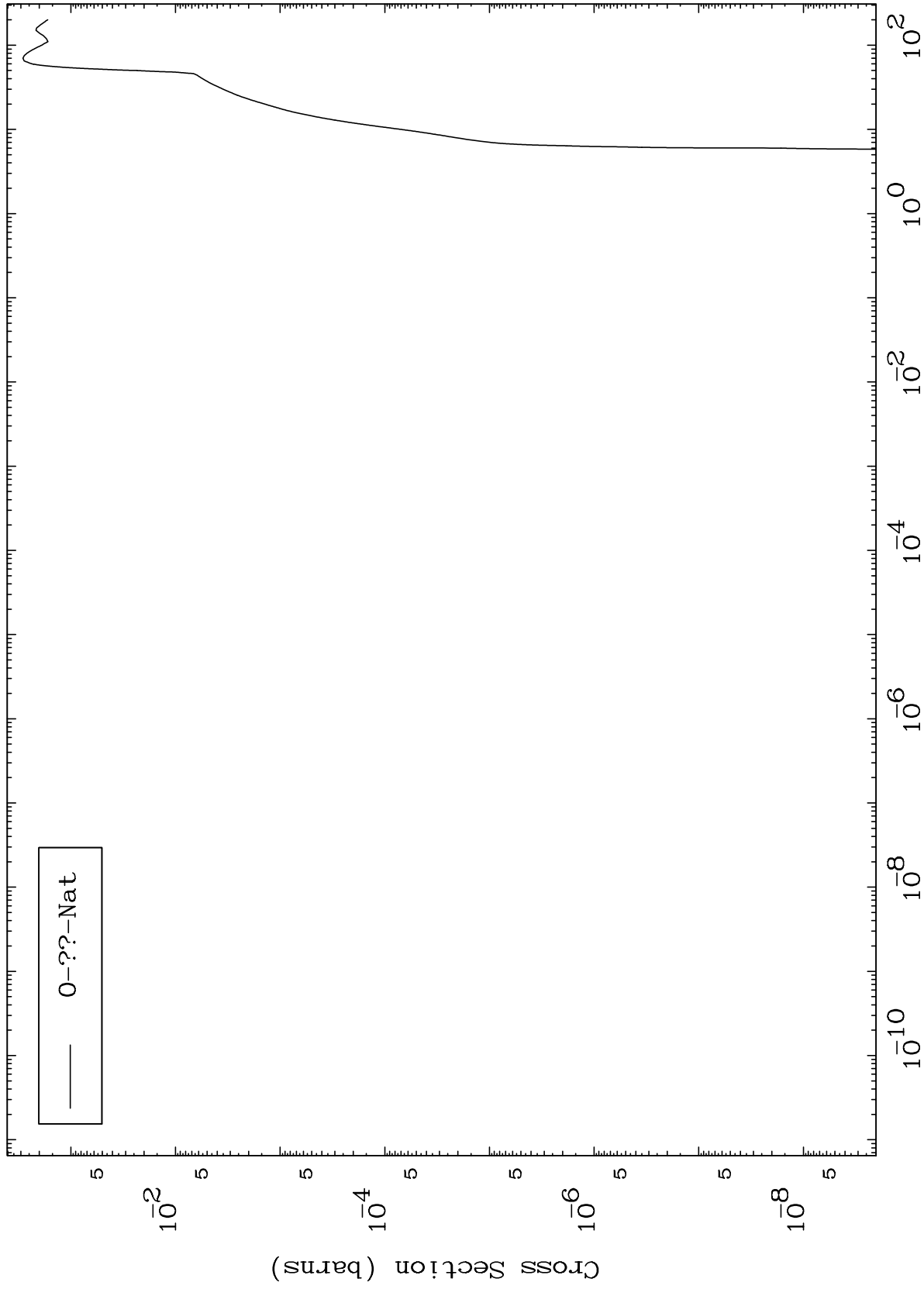
Incident Energy (MeV)

85-At-199

MAT 8513

Fission  
Radionuclide Production Cross Section

85-At-199



69

Incident Energy (MeV)

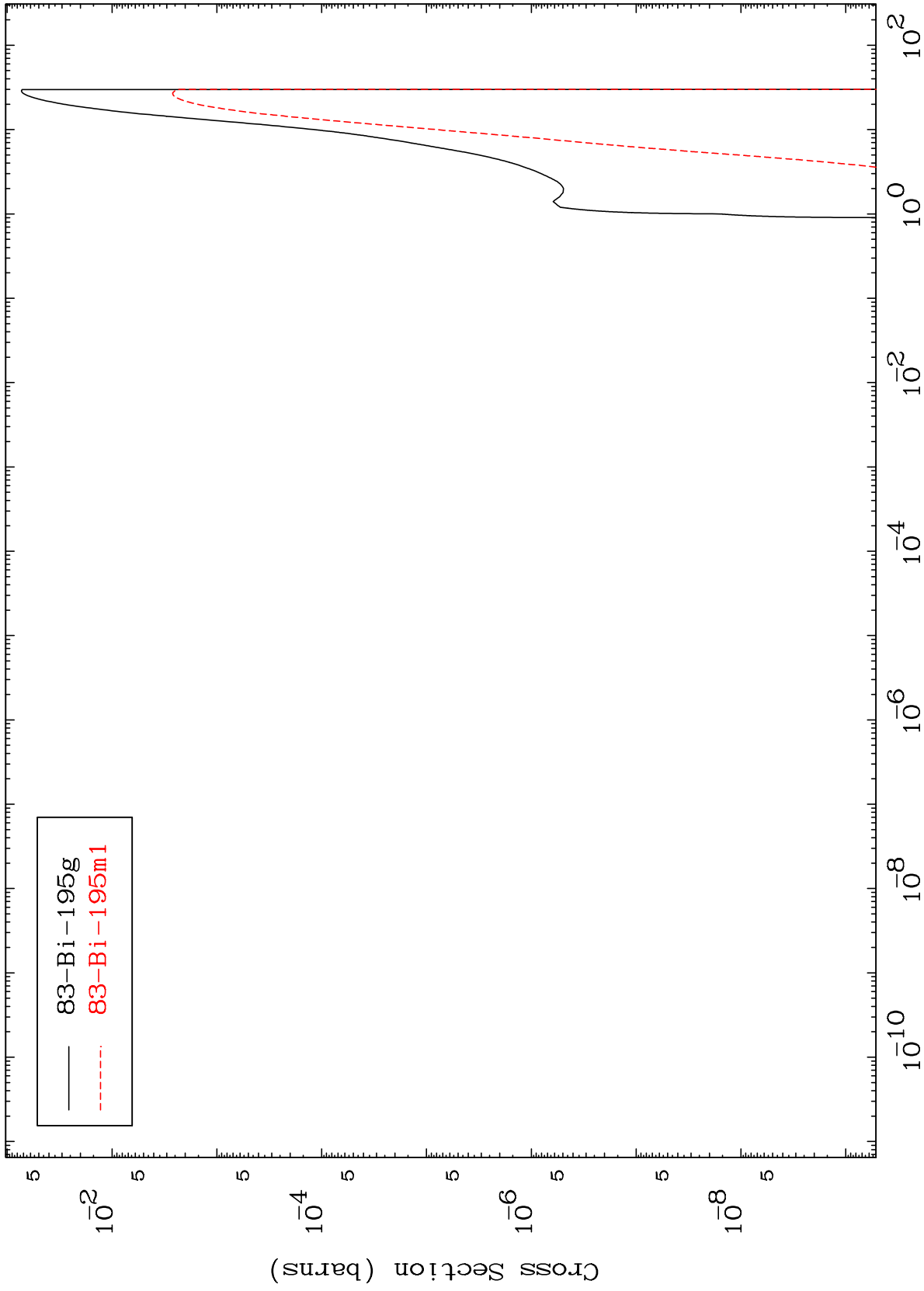
85-At-199

MAT 8513

(n,n')  $\alpha$

85-At-199

Radionuclide Production Cross Section



70

Incident Energy (MeV)

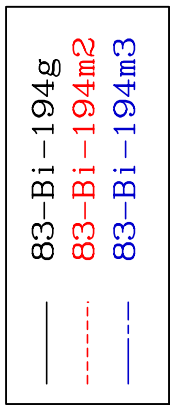
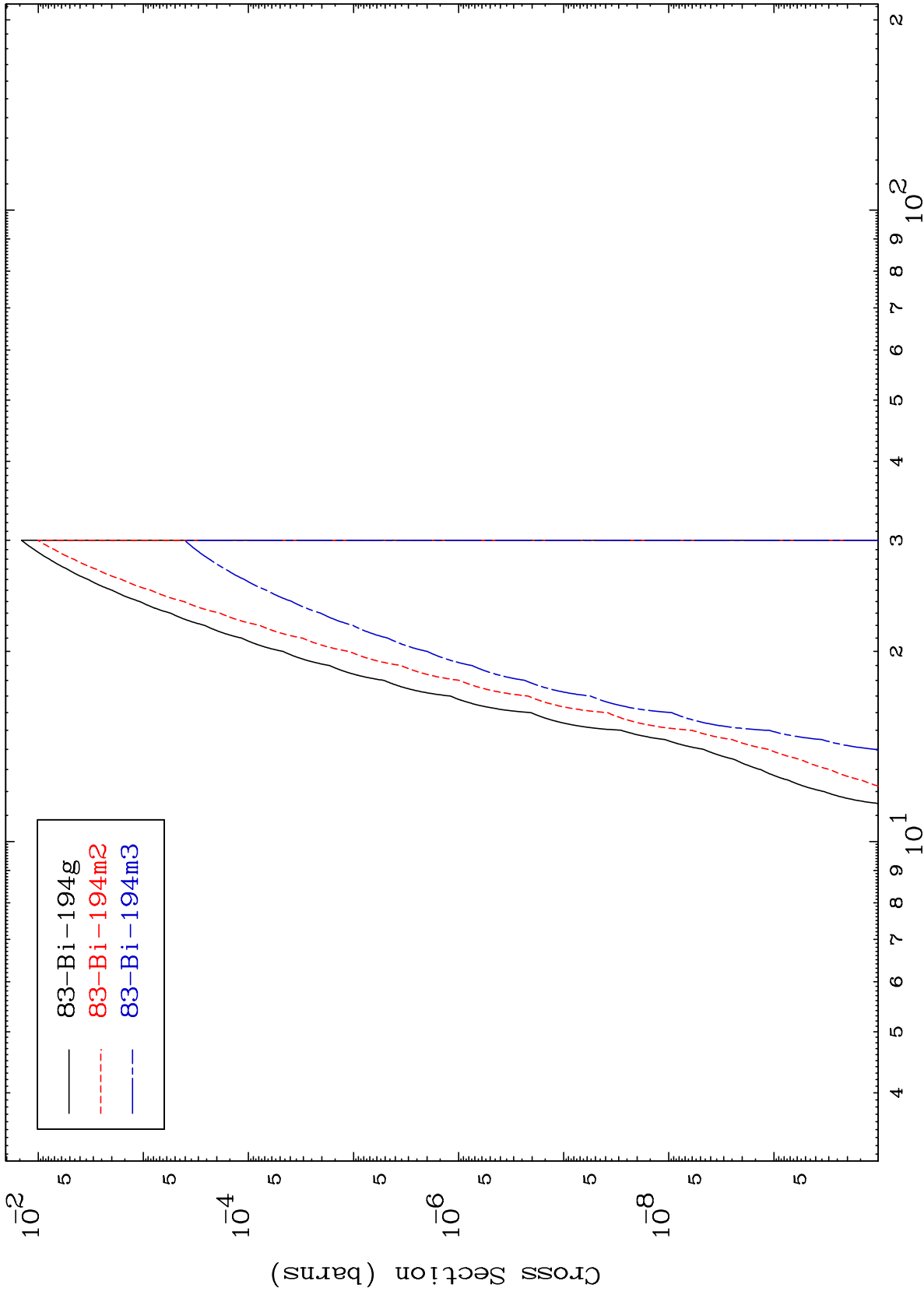
85-At-199

MAT 8513

(n,2n)  $\alpha$

85-At-199

Radionuclide Production Cross Section



71

Incident Energy (MeV)

85-At-199

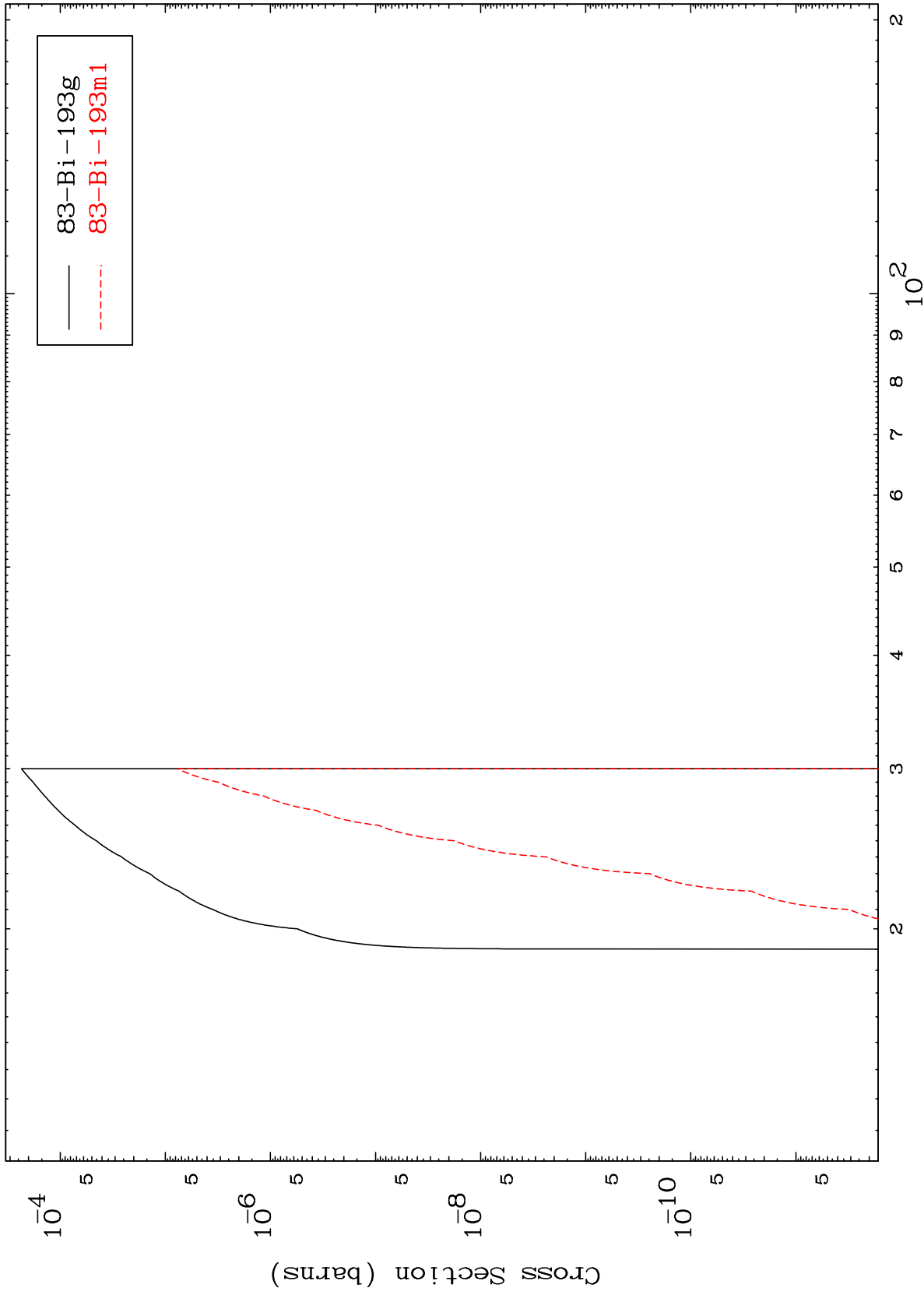


MAT 8513

(n,3n)  $\alpha$

85-At-199

Radionuclide Production Cross Section



72

Incident Energy (MeV)

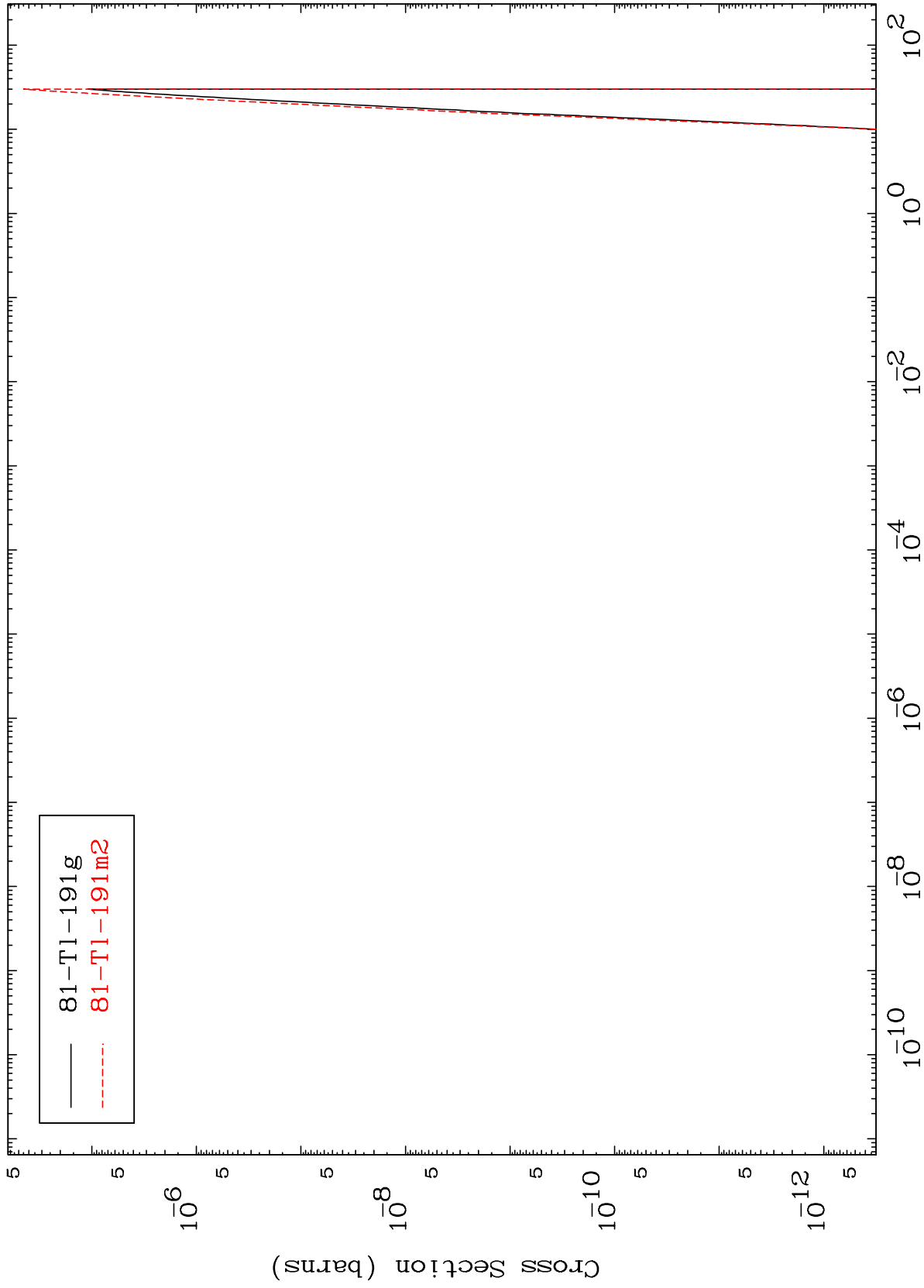
85-At-199

MAT 8513

(n,n') 2 $\alpha$

85-At-199

Radionuclide Production Cross Section



73

Incident Energy (MeV)

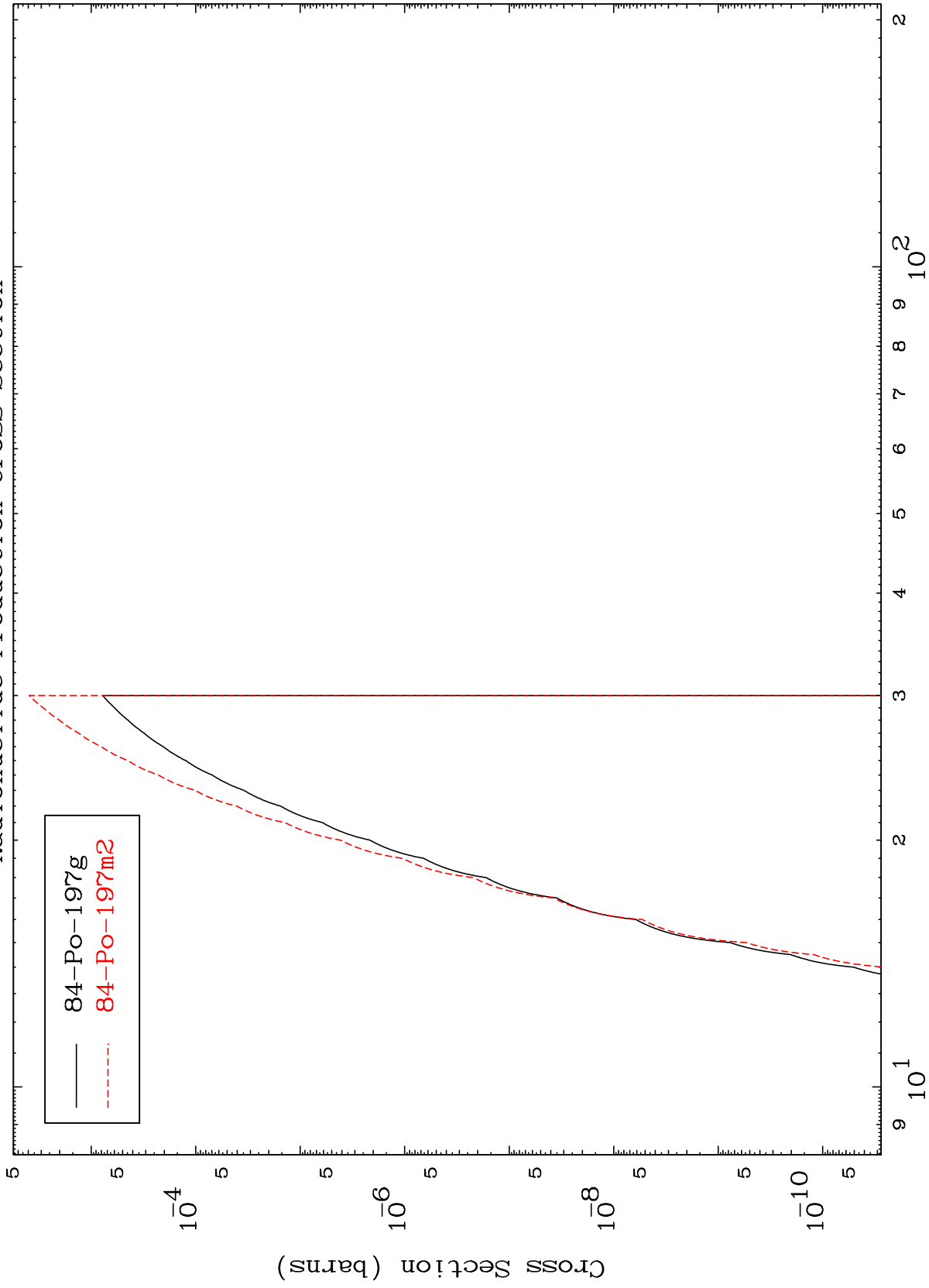
85-At-199

MAT 8513

(n,n') d

85-At-199

Radionuclide Production Cross Section



74

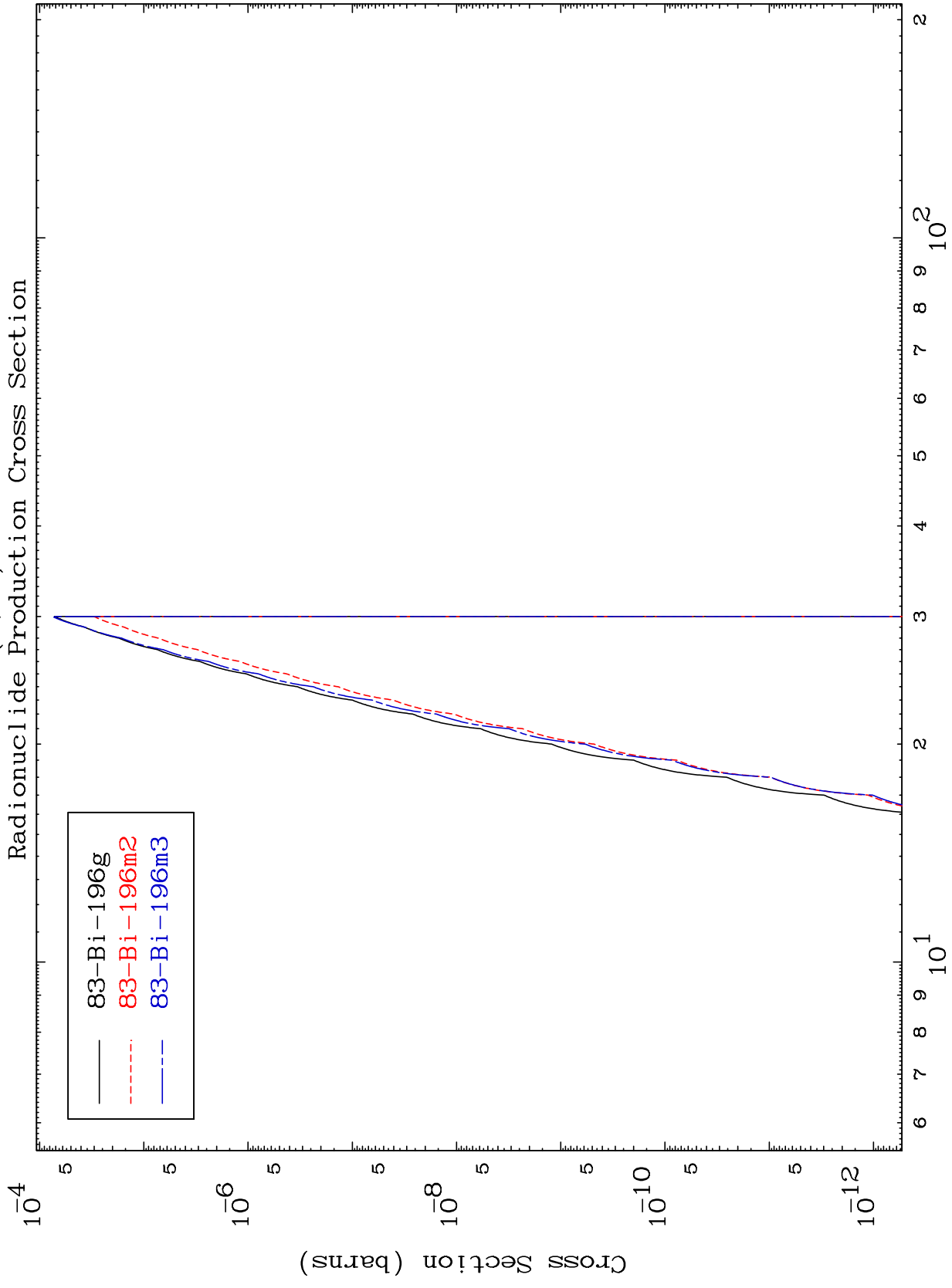
Incident Energy (MeV)

85-At-199

MAT 8513

(n, n') He-3

85-At-199



75

Incident Energy (MeV)

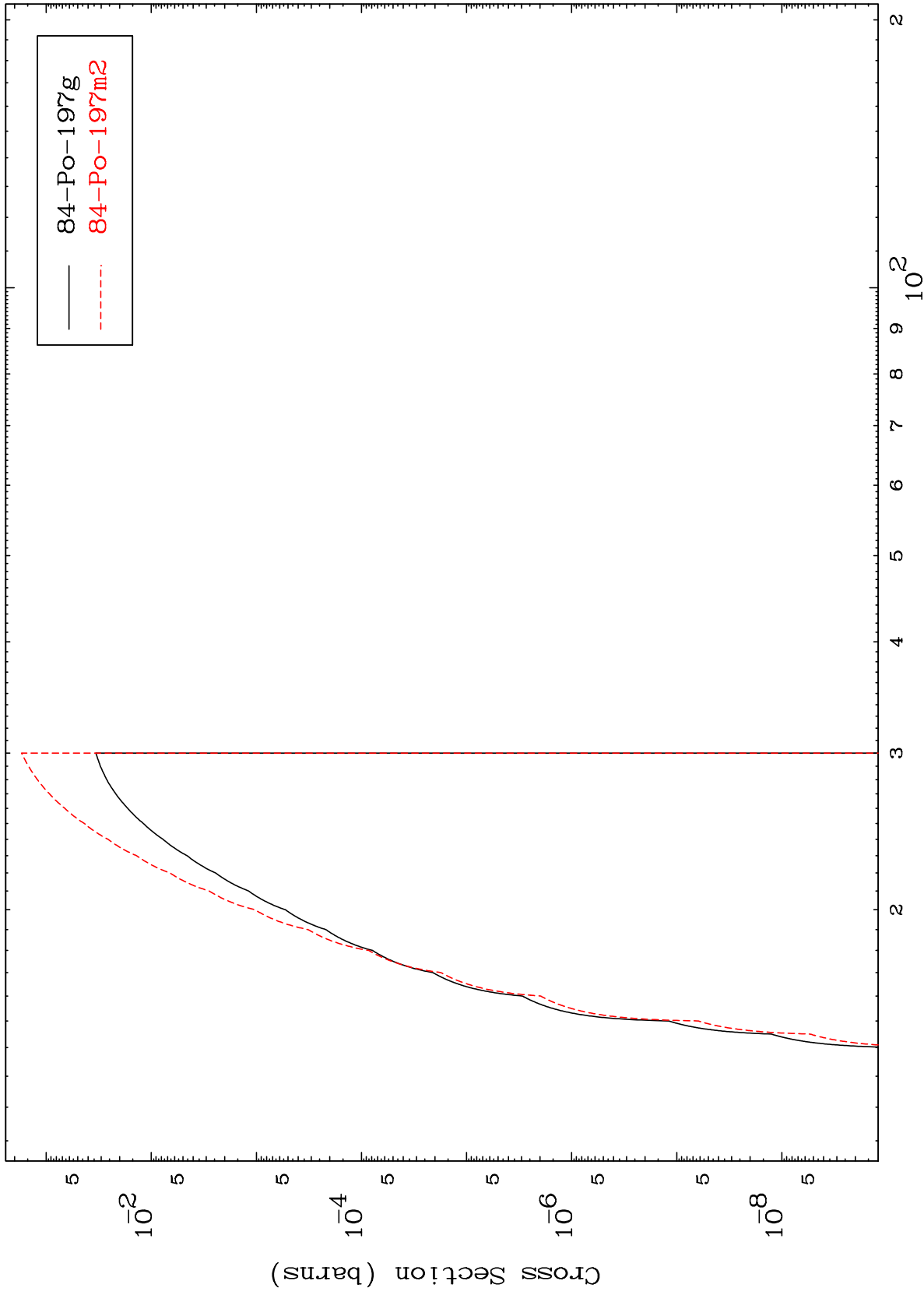
85-At-199

MAT 8513

(n,2n) p

85-At-199

Radionuclide Production Cross Section



76

Incident Energy (MeV)

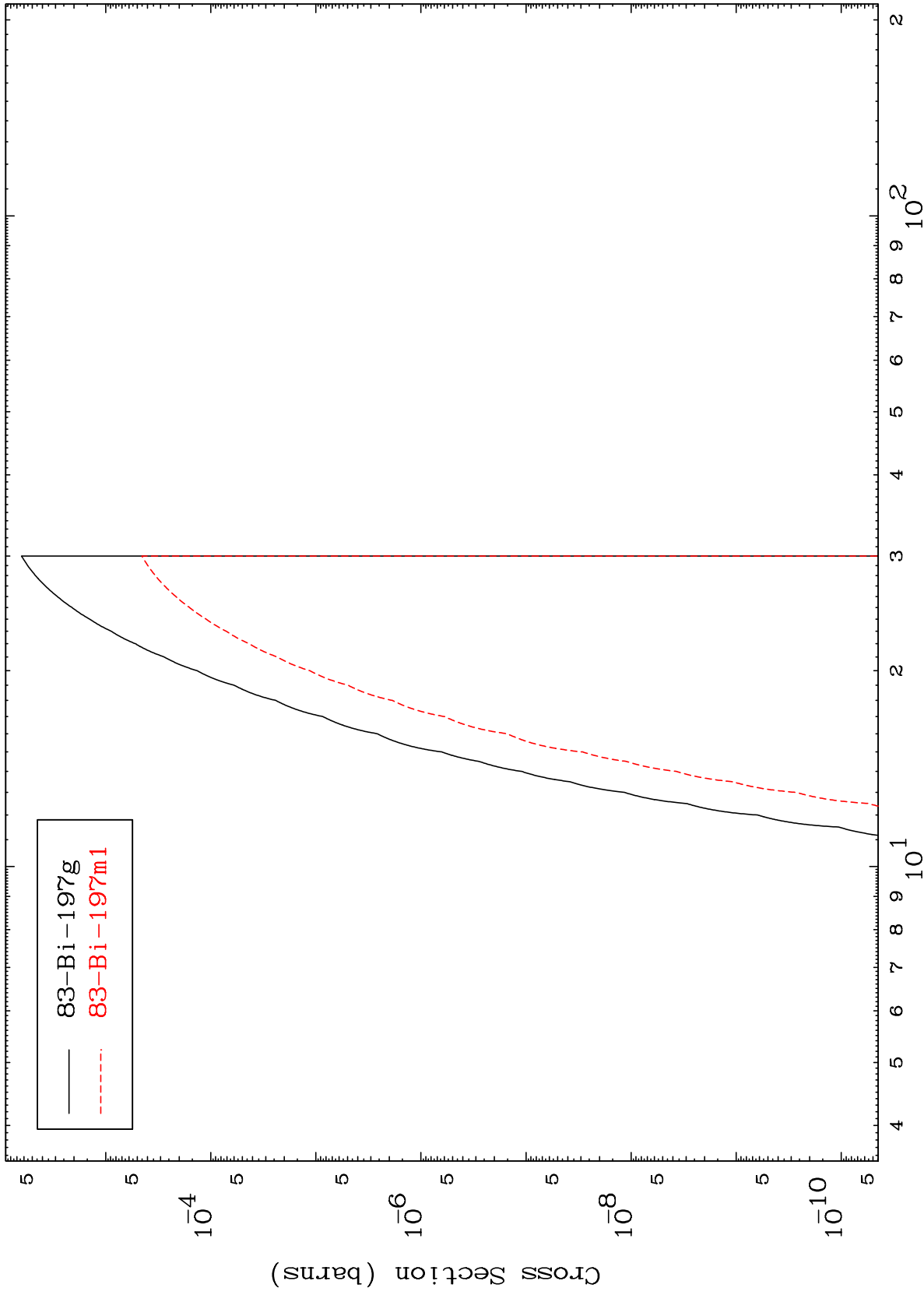
85-At-199

MAT 8513

(n,2n) p

85-At-199

Radionuclide Production Cross Section



77

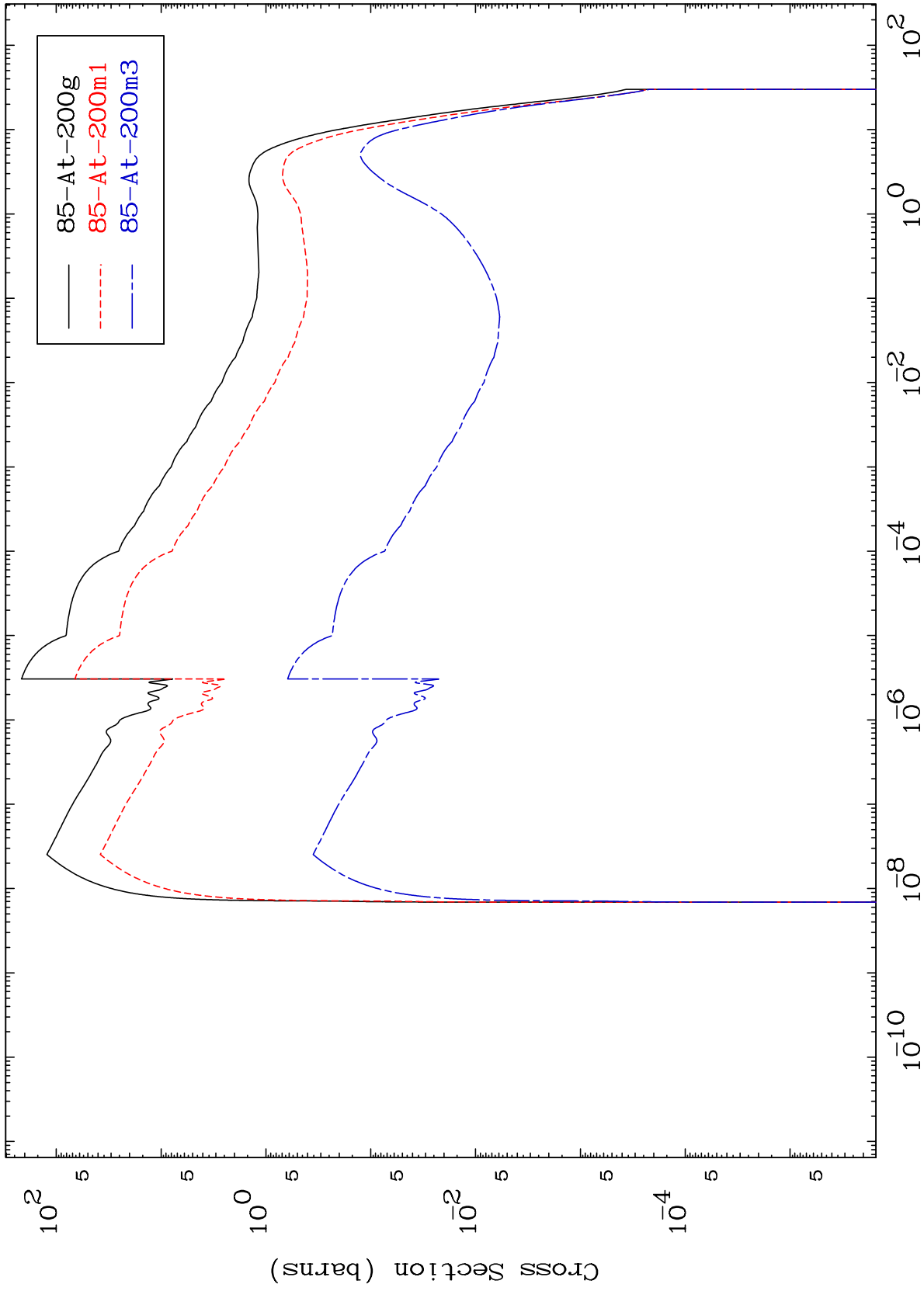
Incident Energy (MeV)

85-At-199

MAT 8513

85-At-199

(n,γ)  
Radionuclide Production Cross Section



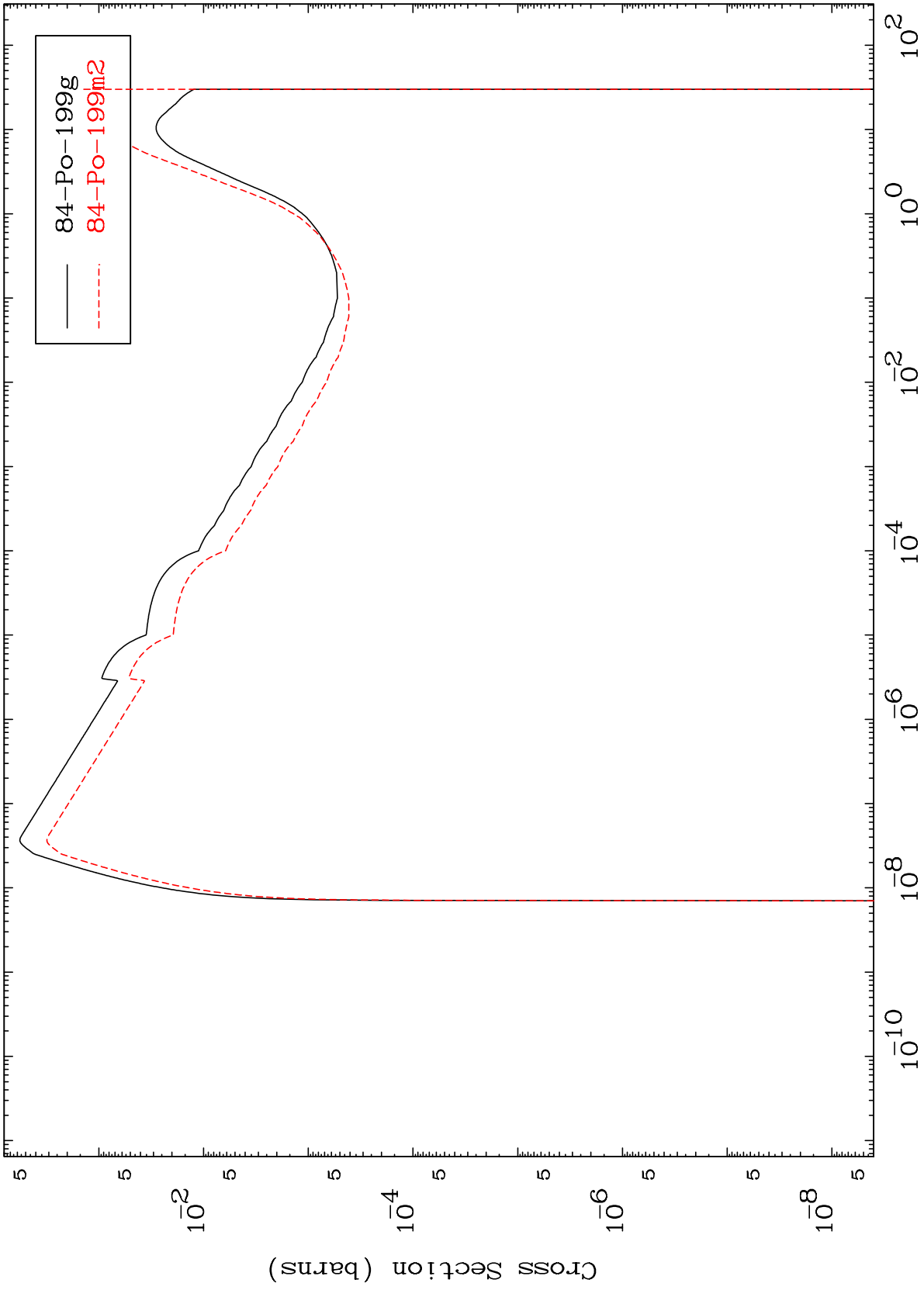
78

85-At-199

MAT 8513

85-At-199

(n,p)  
Radionuclide Production Cross Section



84-Po-199g  
84-Po-199m2

79

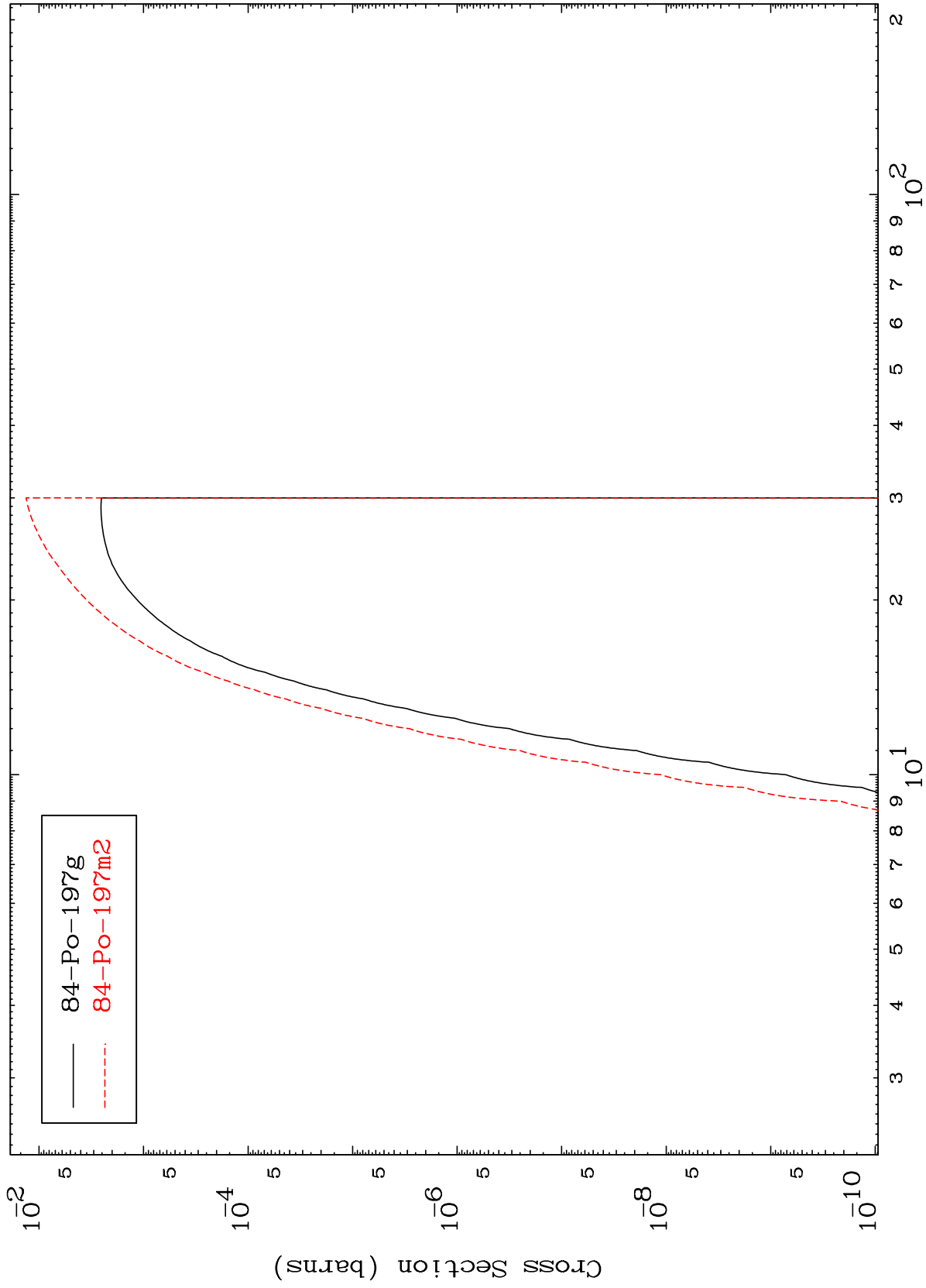
85-At-199



MAT 8513

85-At-199

(n, t)  
Radionuclide Production Cross Section



80

Incident Energy (MeV)

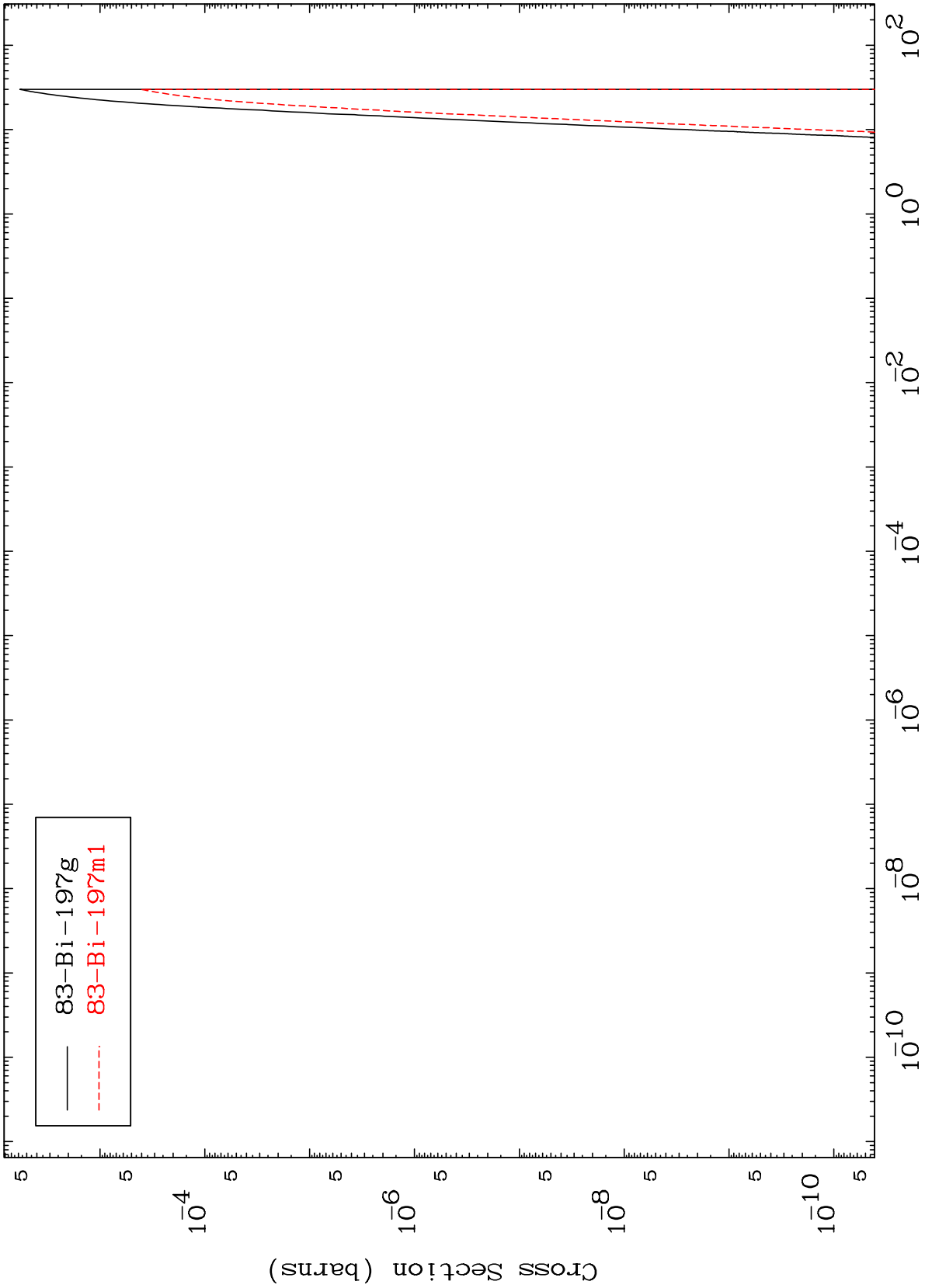
85-At-199

MAT 8513

(n,He-3)

85-At-199

Radionuclide Production Cross Section



81

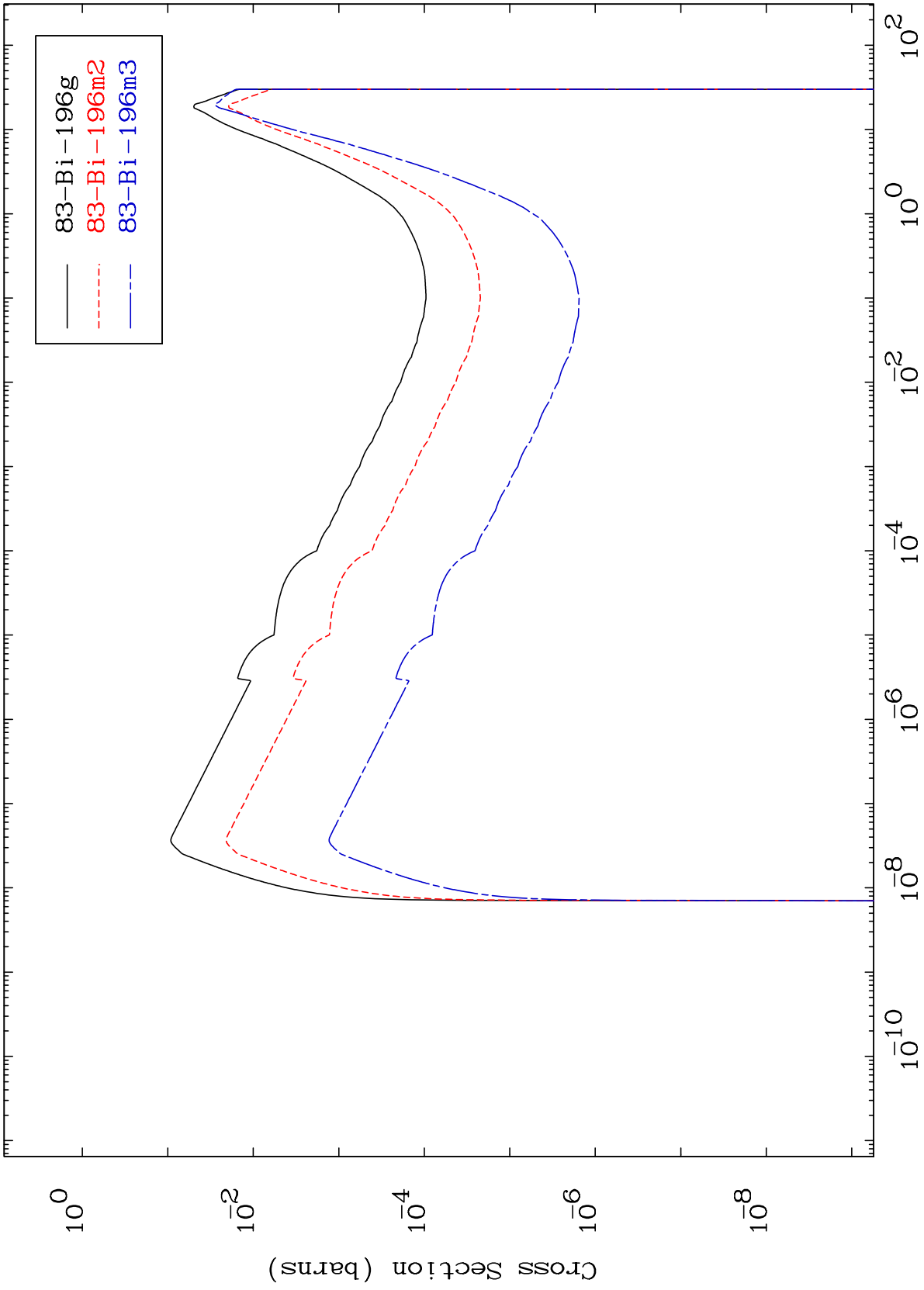
Incident Energy (MeV)

85-At-199

MAT 8513

85-At-199

(n,α)  
Radionuclide Production Cross Section



82

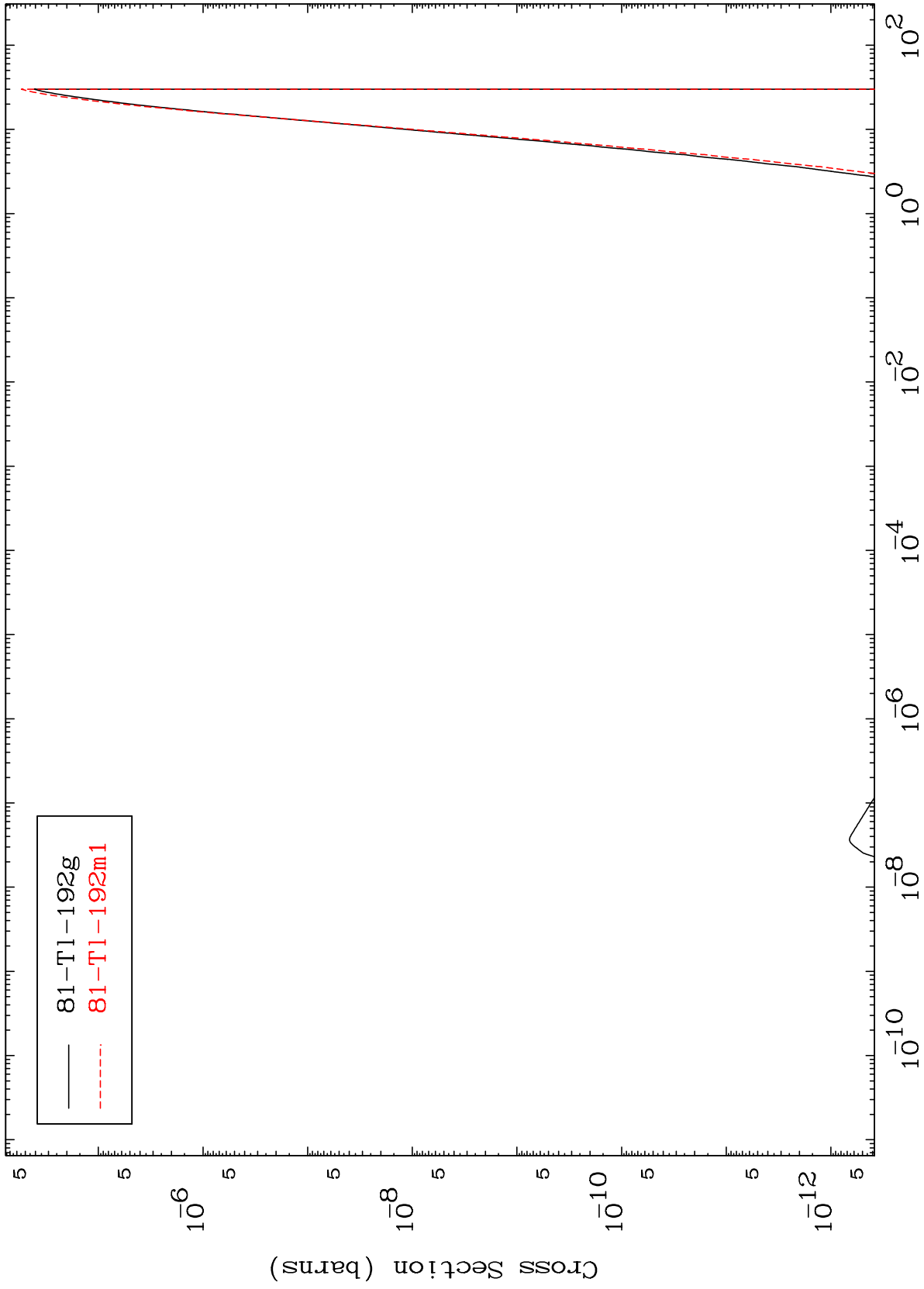
85-At-199

MAT 8513

(n,2α)

85-At-199

Radionuclide Production Cross Section



83

Incident Energy (MeV)

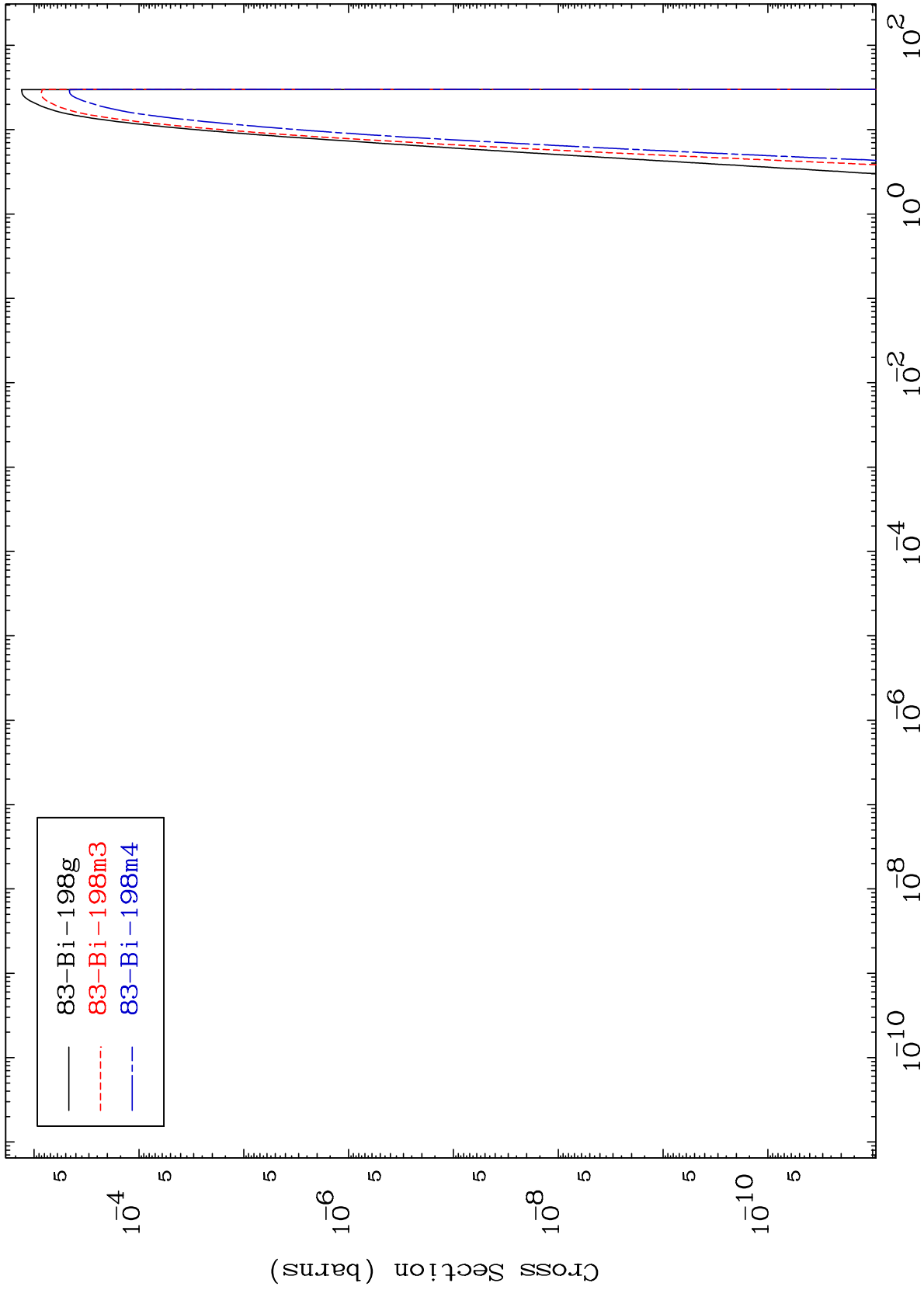
85-At-199

MAT 8513

(n,2p)

85-At-199

Radionuclide Production Cross Section



84

Incident Energy (MeV)

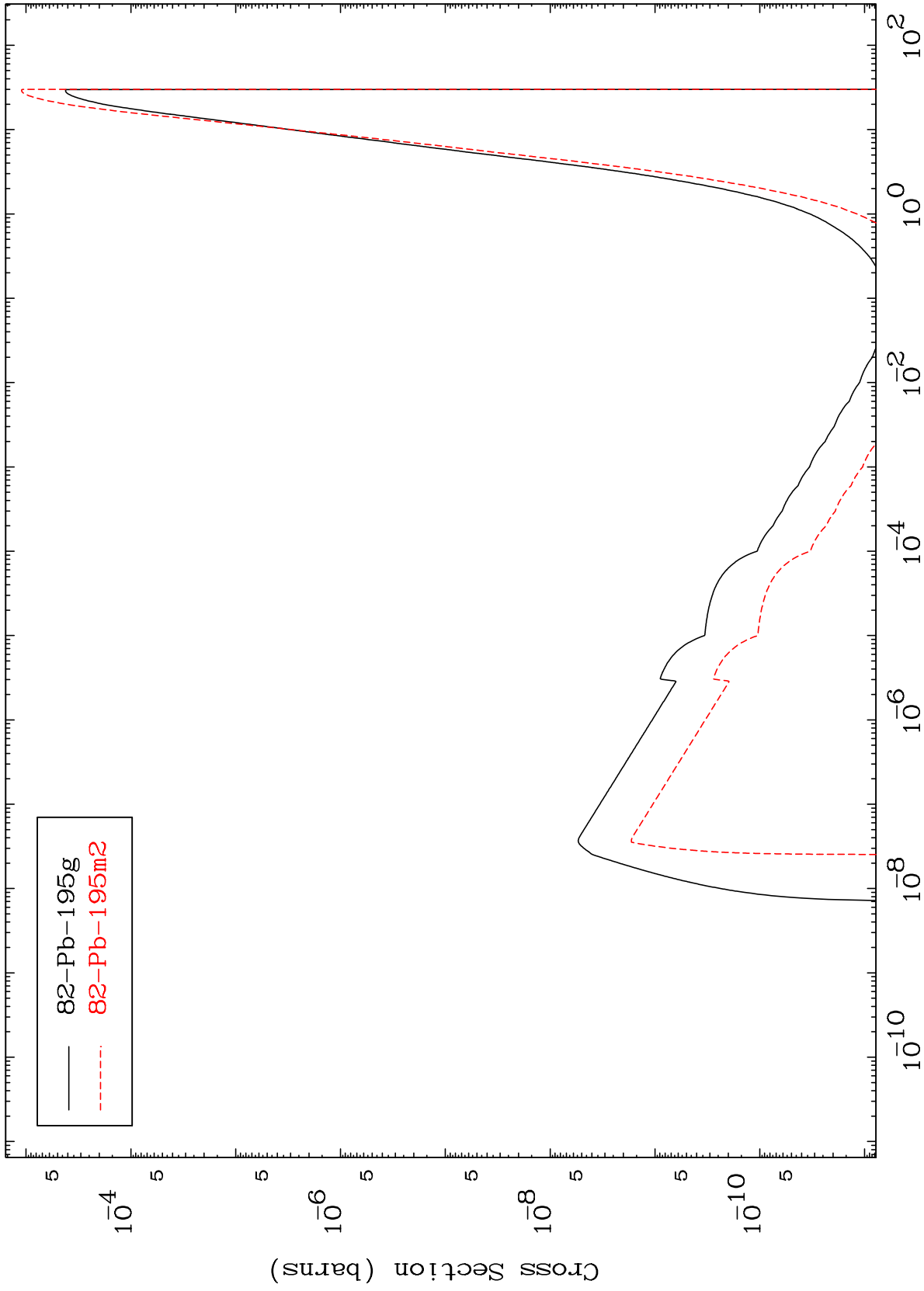
85-At-199

MAT 8513

(n,p)  $\alpha$

85-At-199

Radionuclide Production Cross Section



85

Incident Energy (MeV)

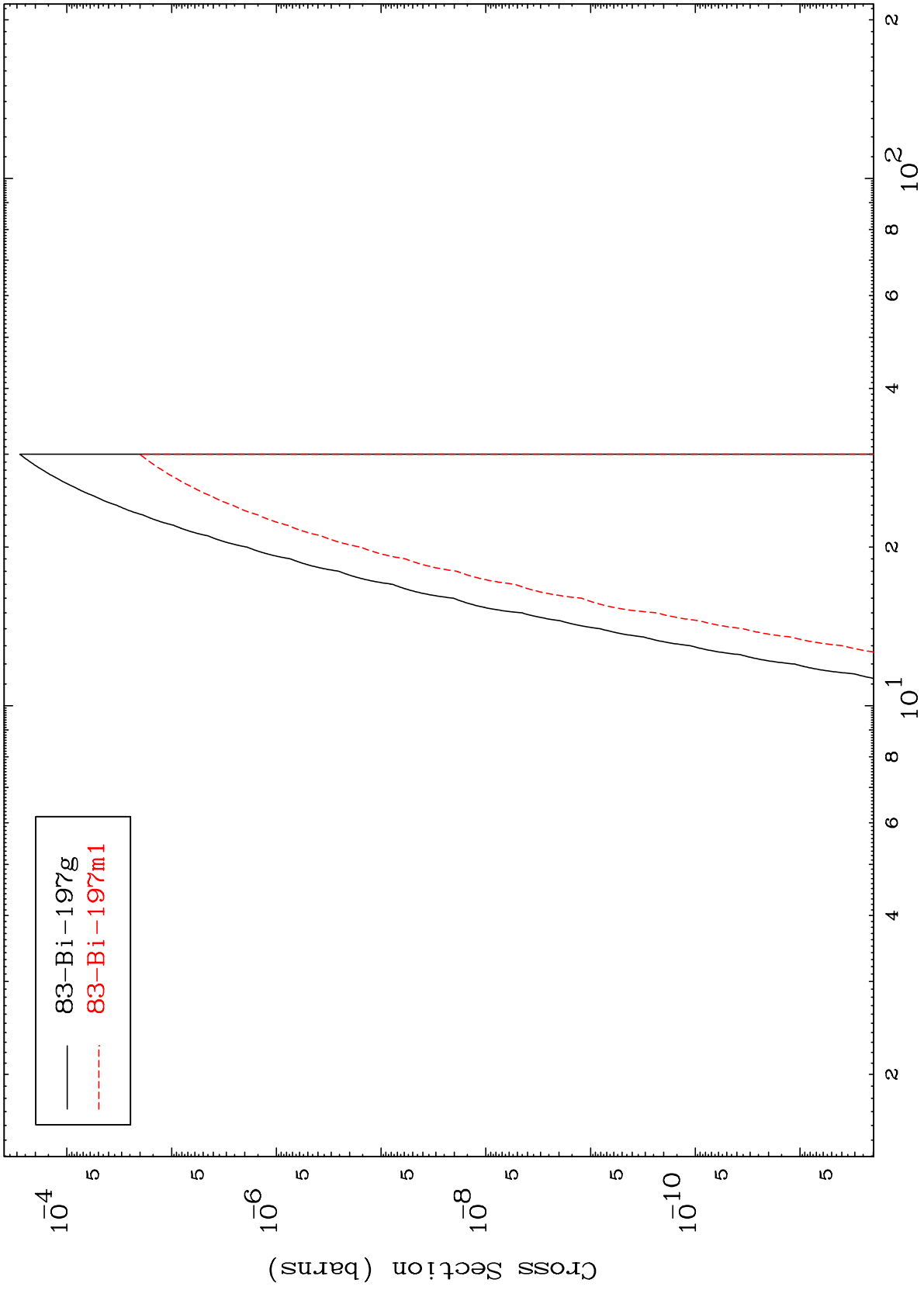
85-At-199

MAT 8513

(n,p) d

85-At-199

Radionuclide Production Cross Section



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

86

Incident Energy (MeV)

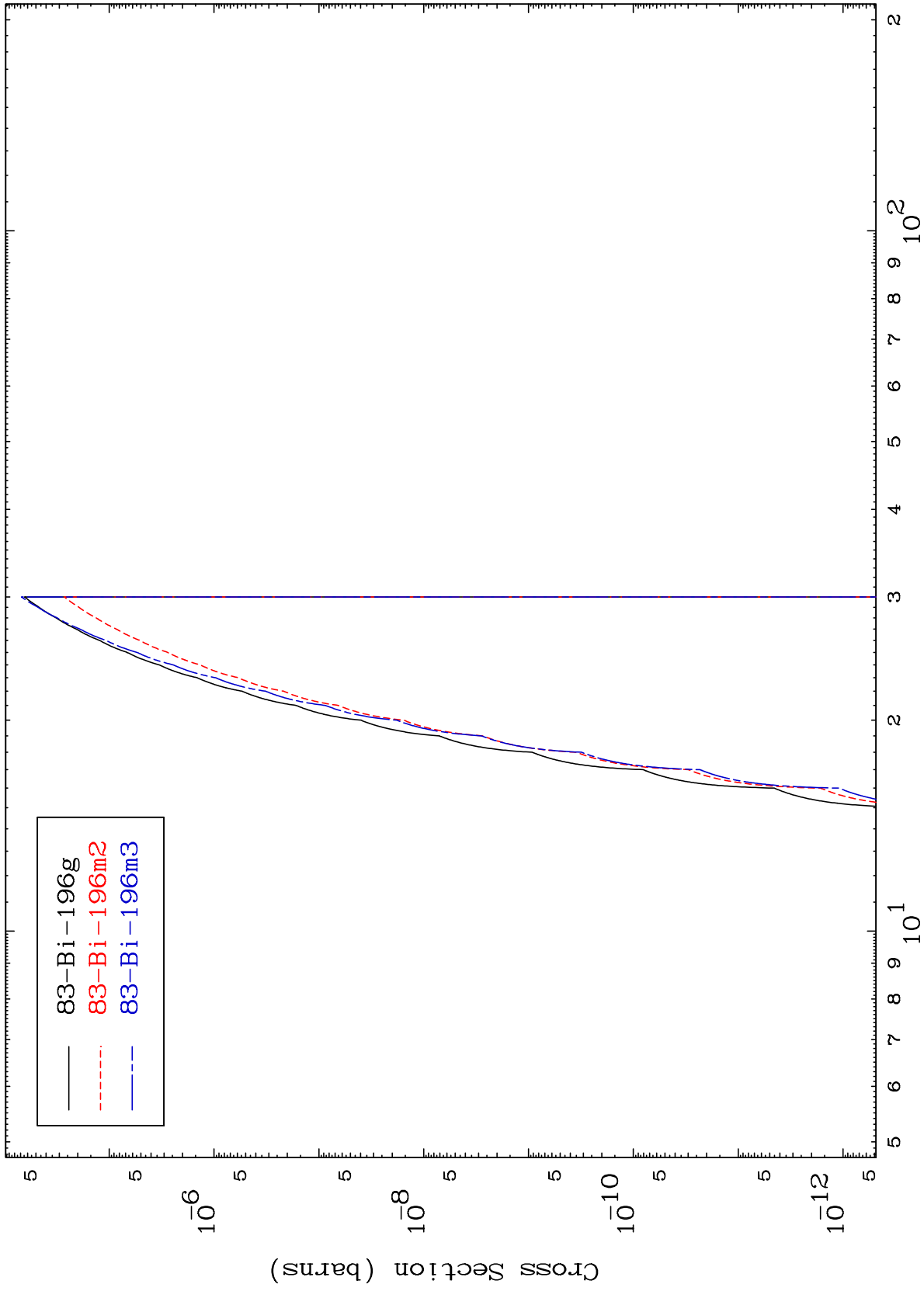
85-At-199

MAT 8513

(n,p) t

85-At-199

Radionuclide Production Cross Section



87

Incident Energy (MeV)

85-At-199