

Program EVALPLOT
(Version 2018-1)

by

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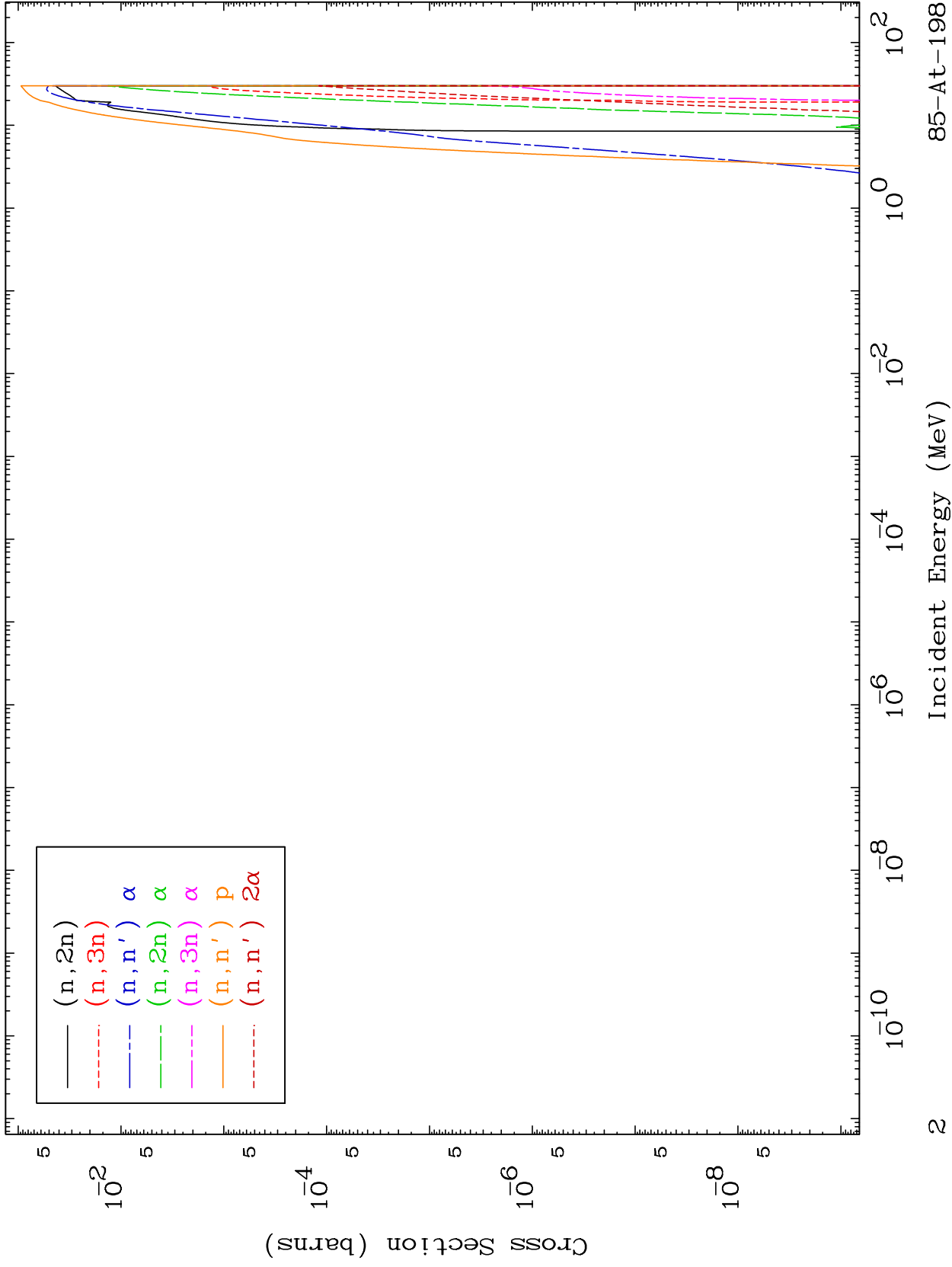
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8510

Neutron Production
293 Kelvin Cross Sections

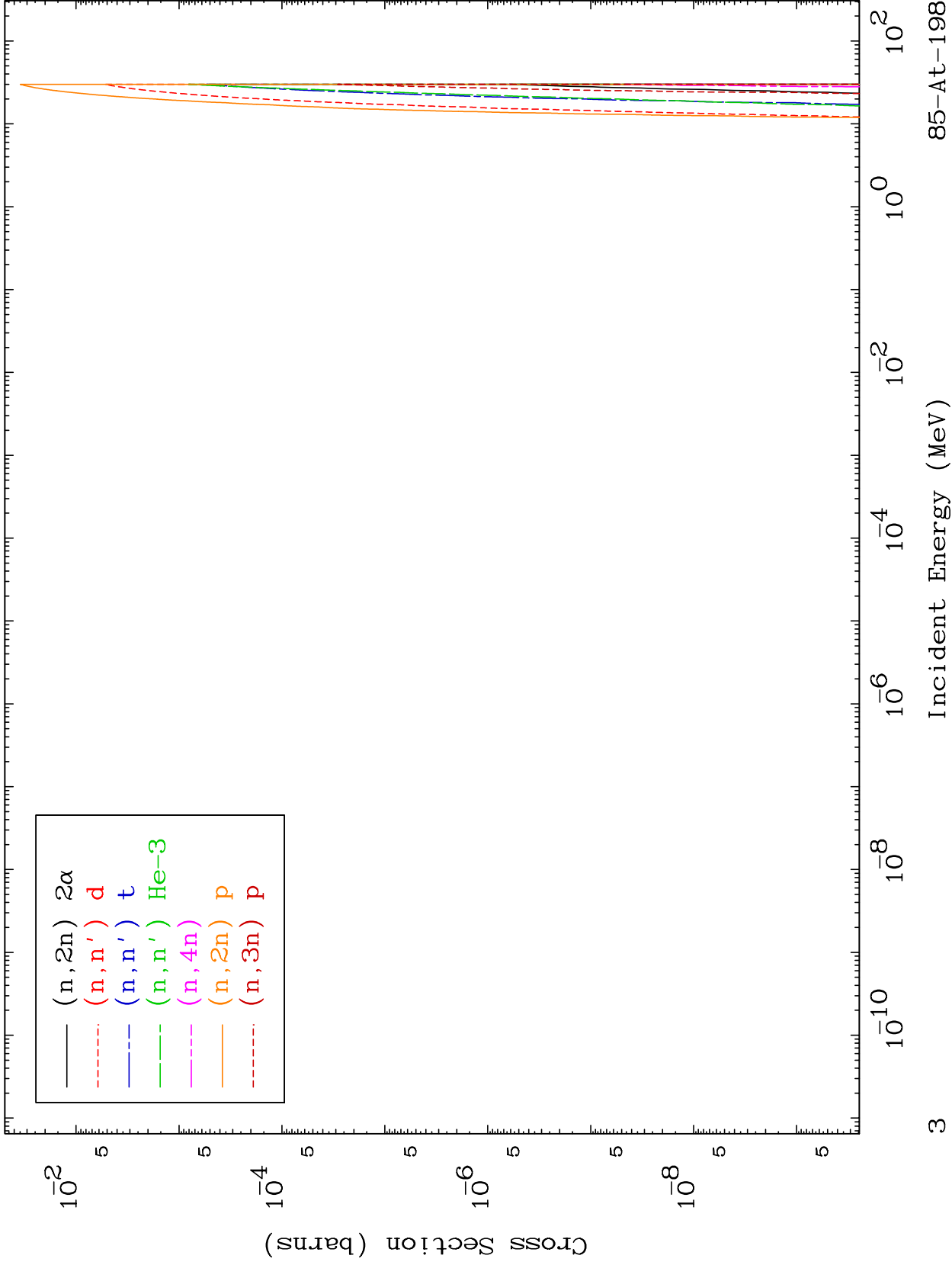
85-At-198



MAT 8510

Neutron Production
293 Kelvin Cross Sections

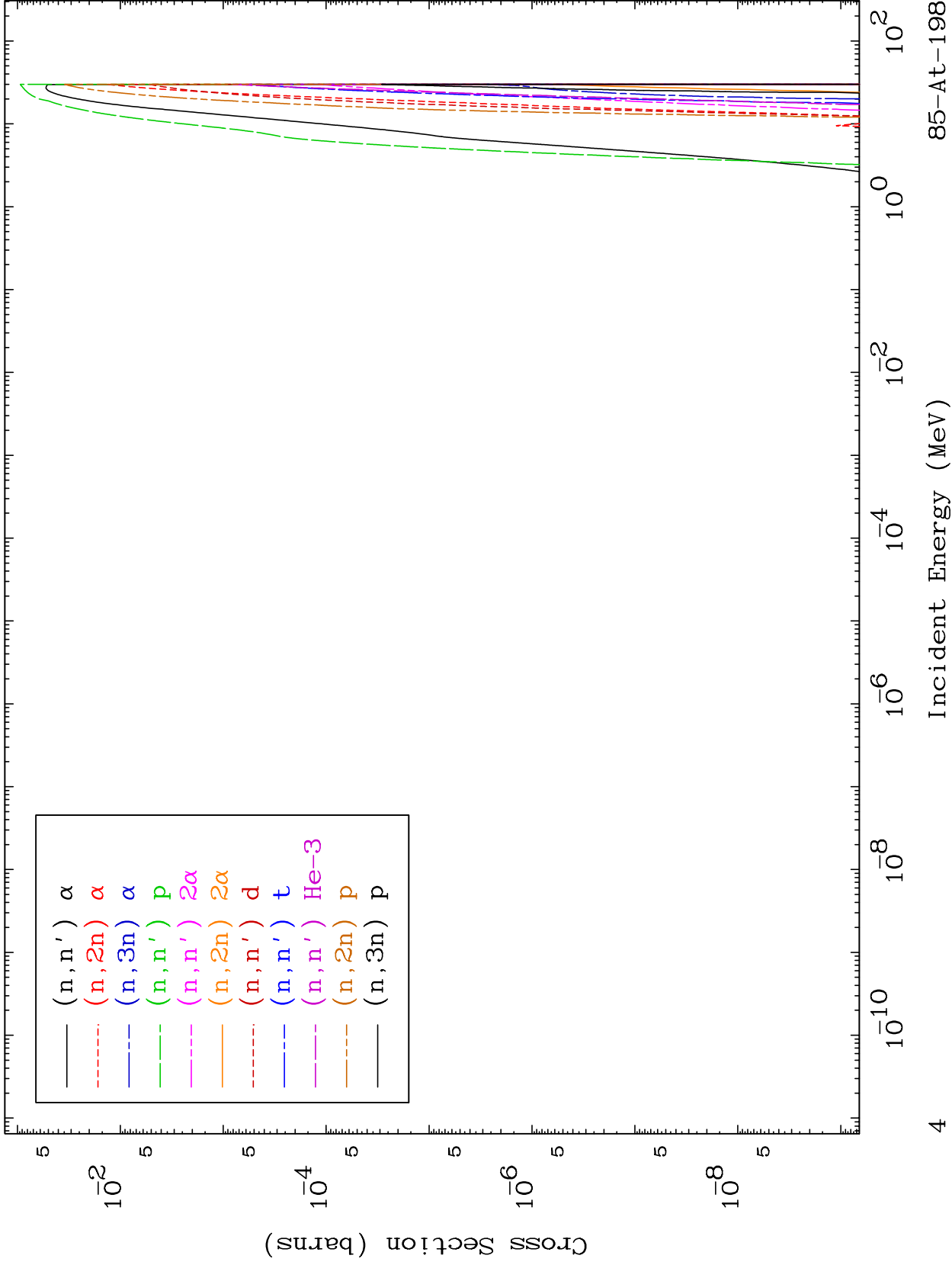
85-At-198

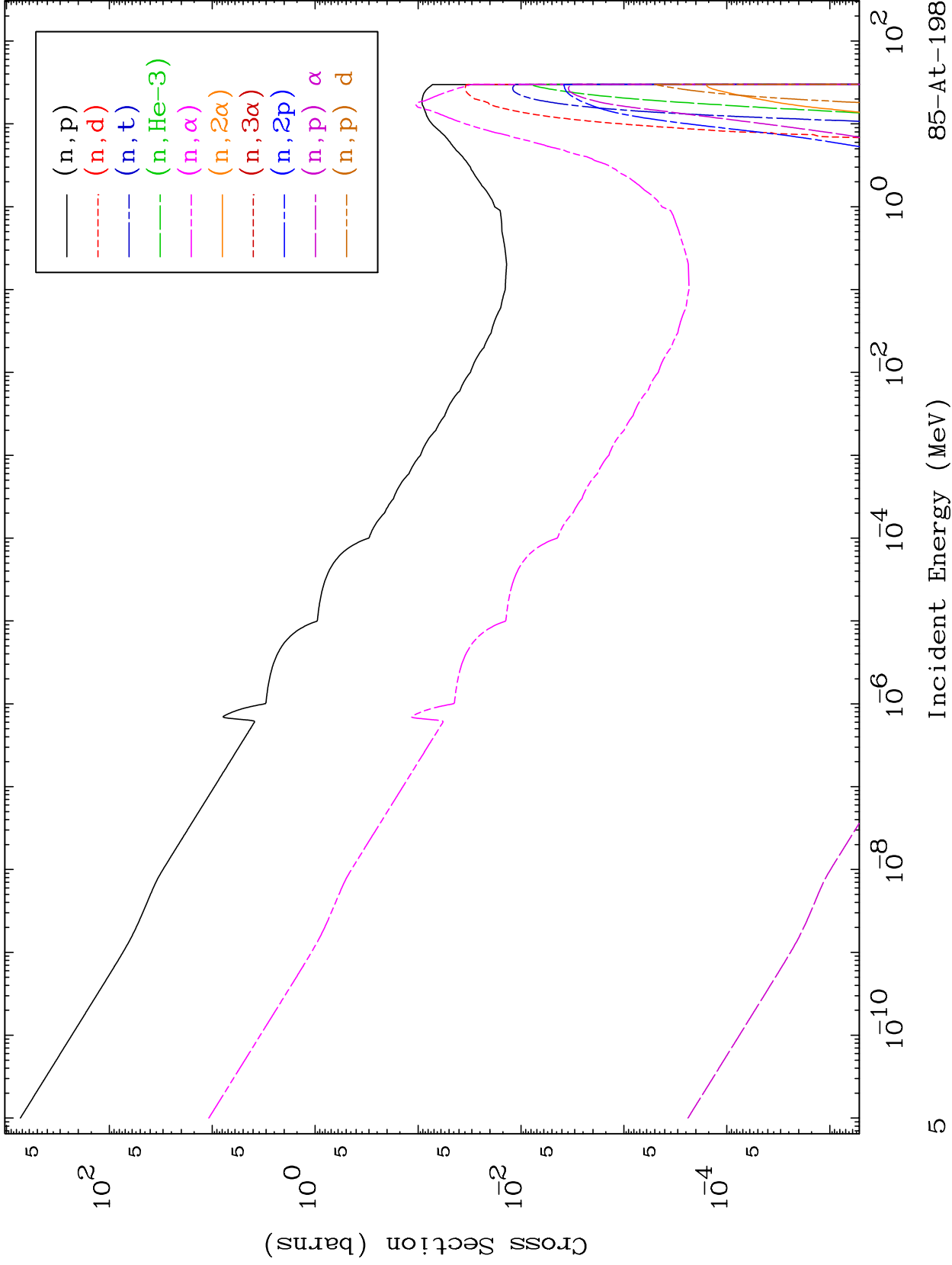


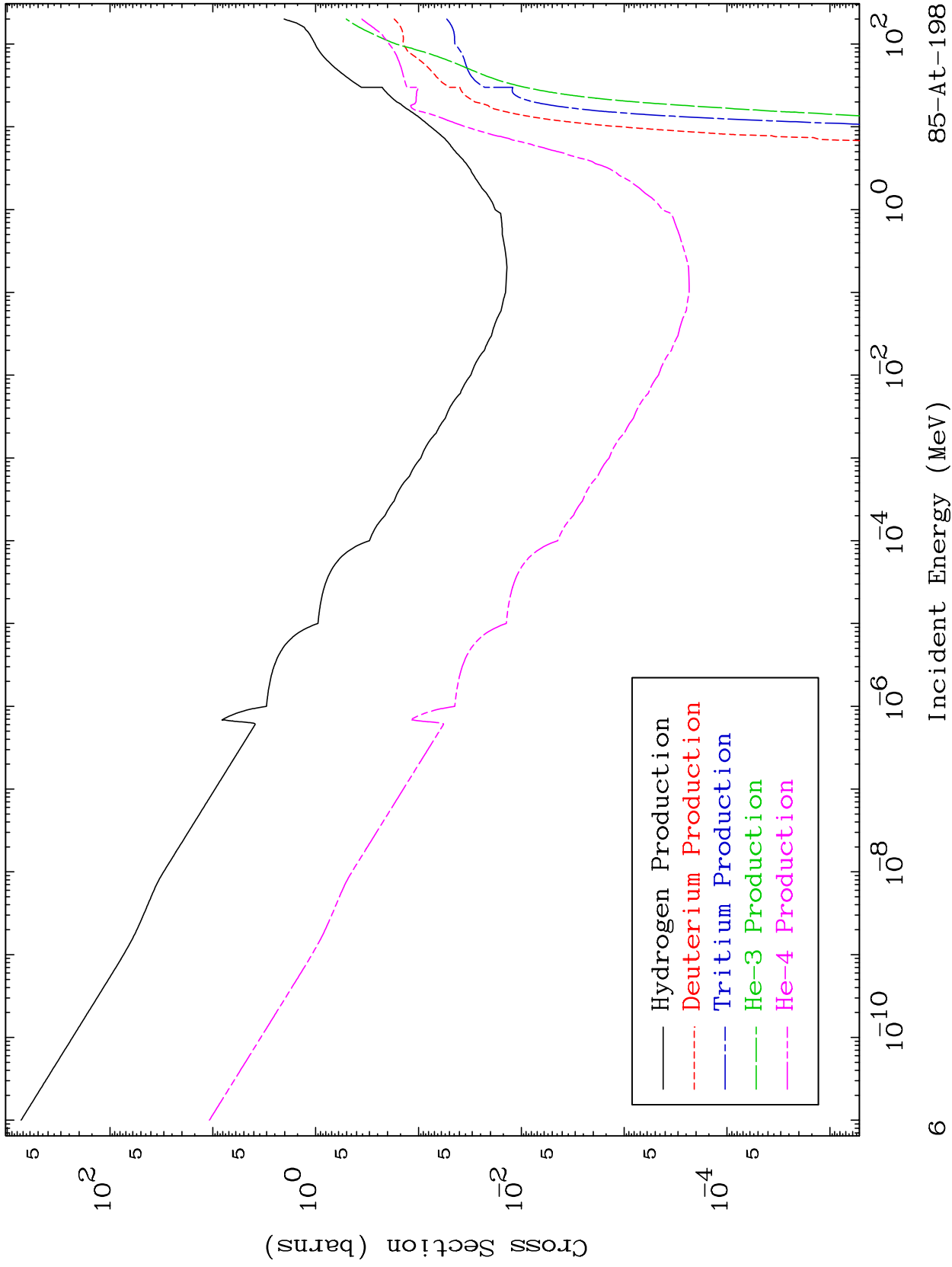
MAT 8510

Charged Particle
293 Kelvin Cross Sections

85-At-198





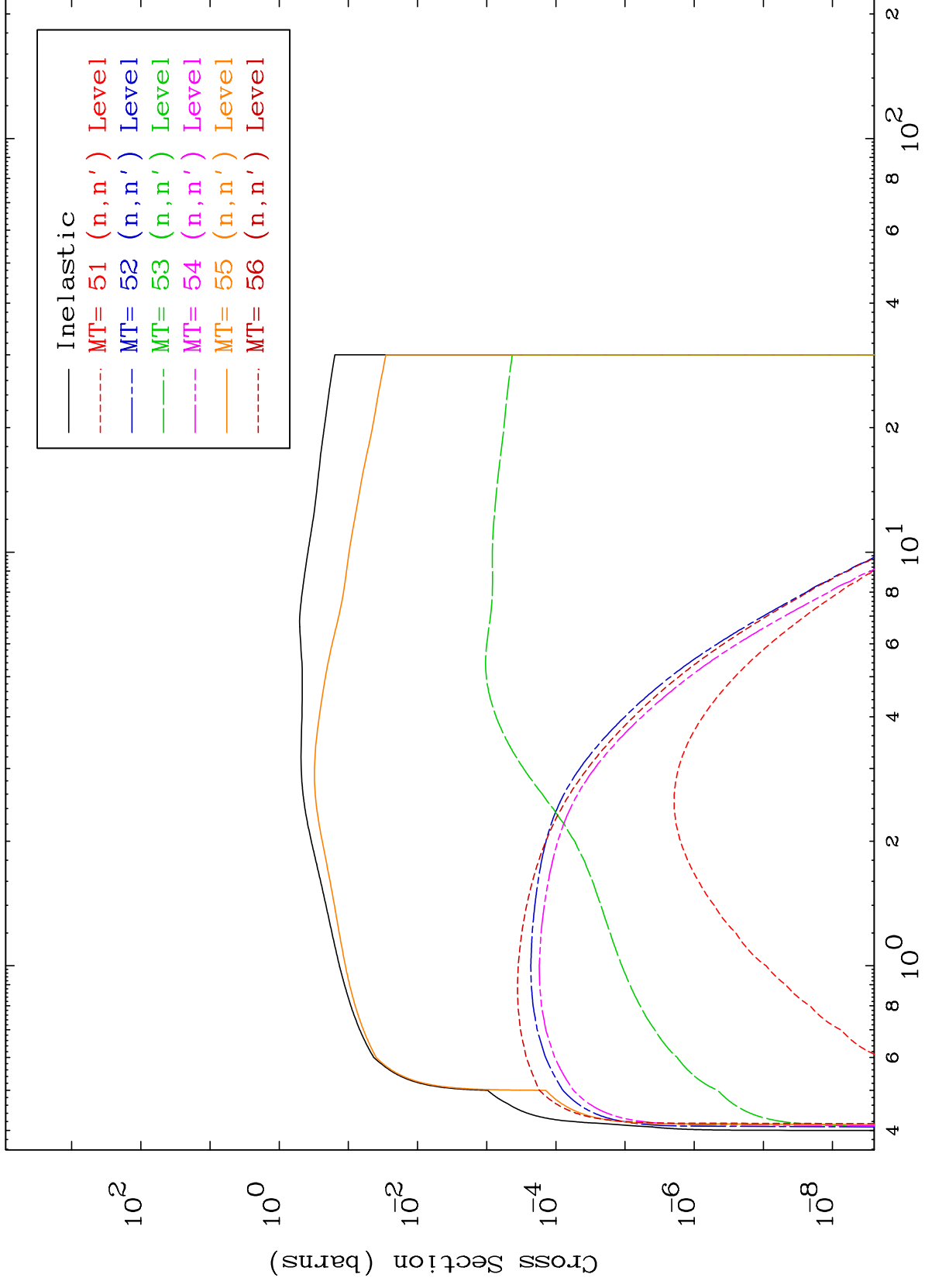


MAT 8510

(n,n') Level

85-At-198

293 Kelvin Cross Sections



7

Incident Energy (MeV)

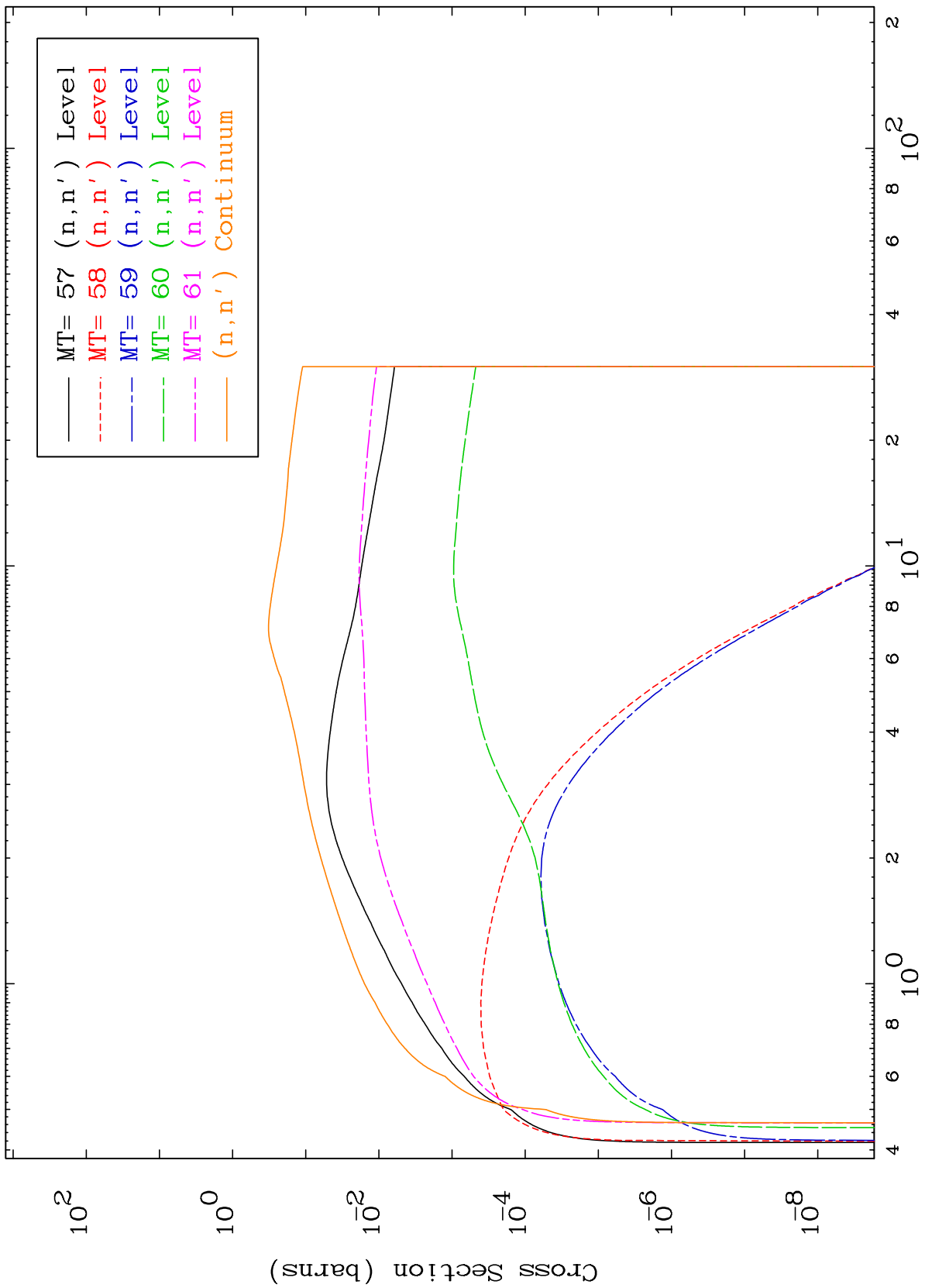
85-At-198

MAT 8510

(n,n') Level

85-At-198

293 Kelvin Cross Sections



8

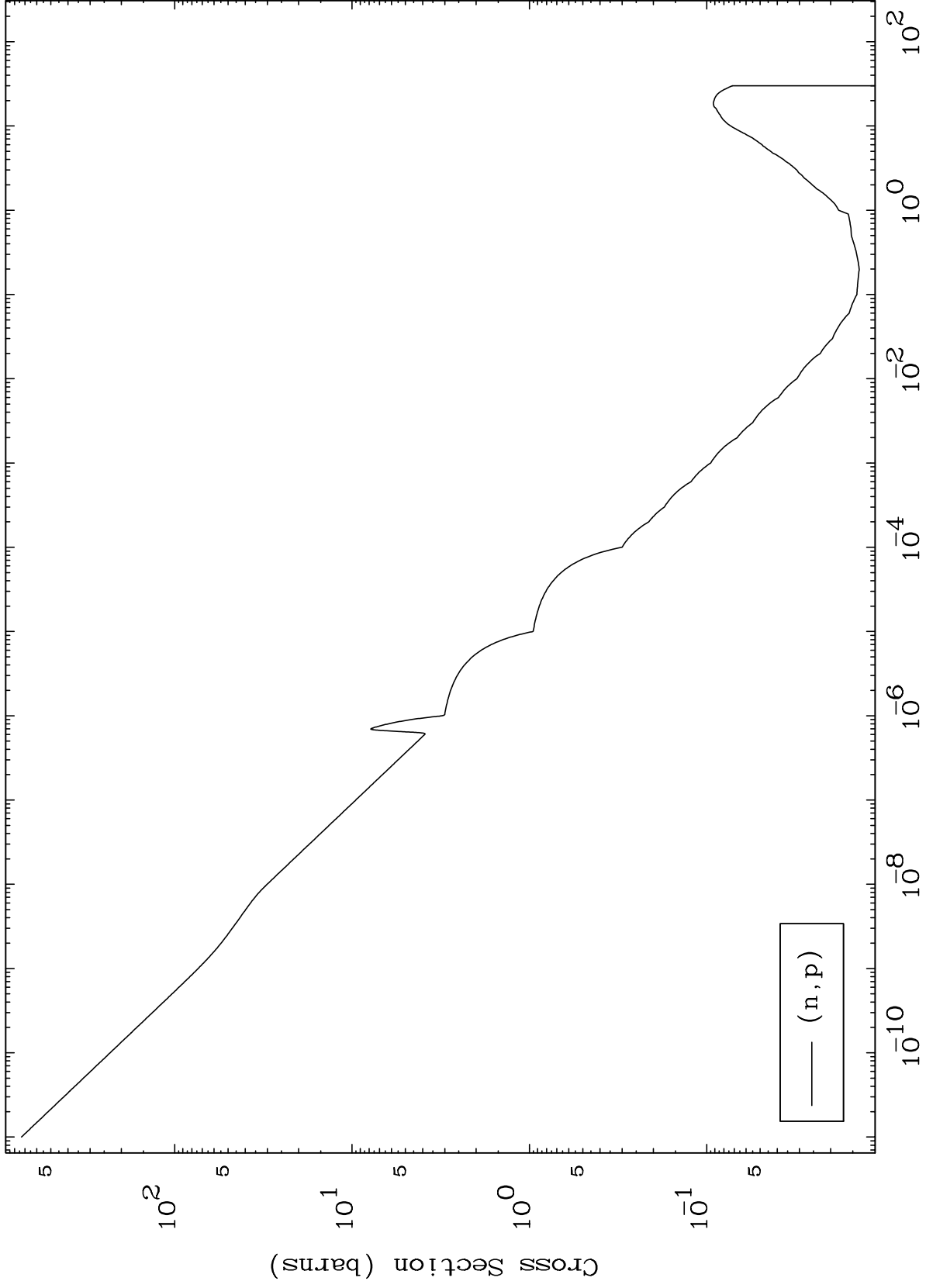
Incident Energy (MeV)

85-At-198

MAT 8510

(n,p) Levels
293 Kelvin Cross Sections

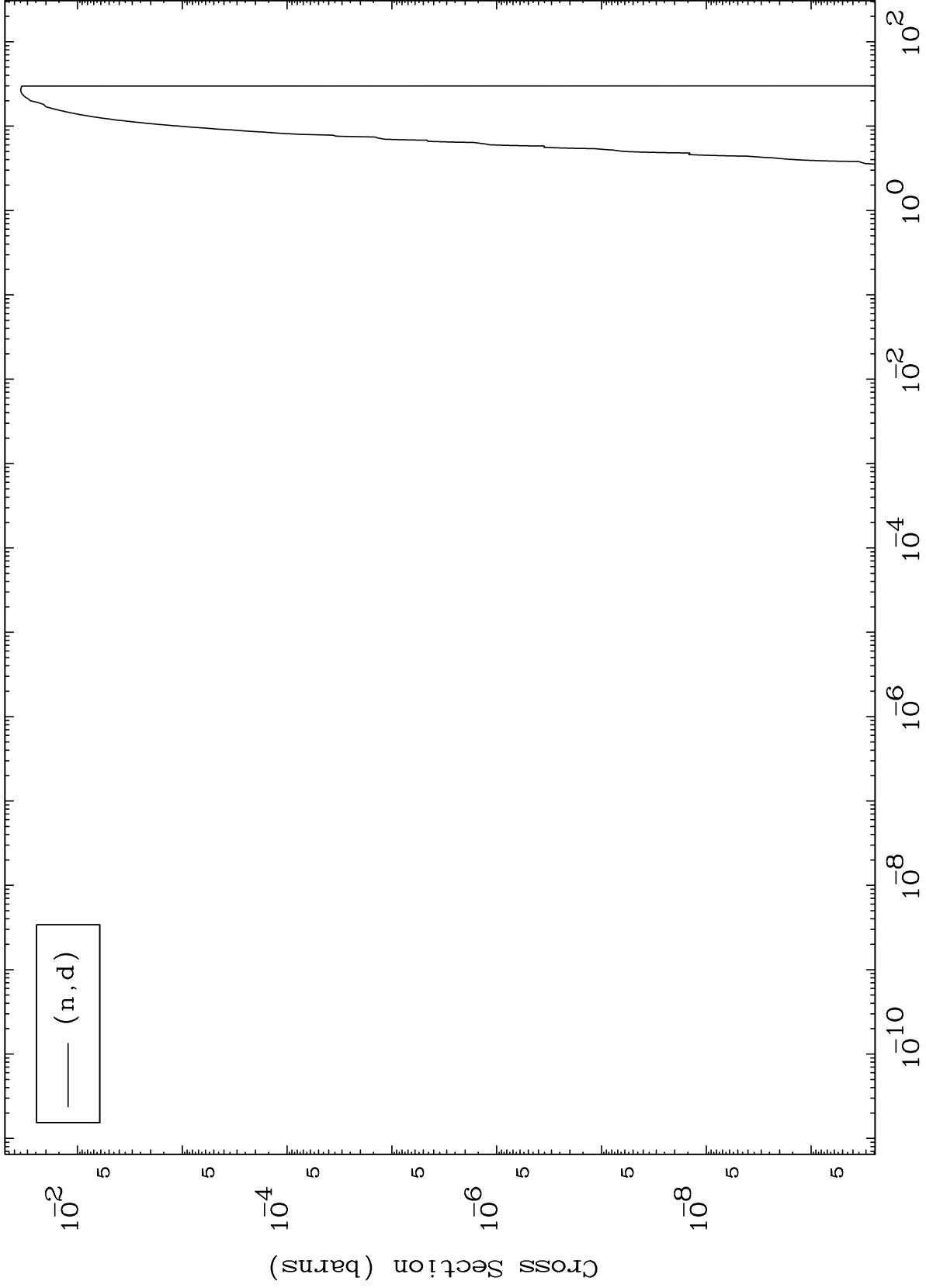
85-At-198



MAT 8510

(n,d) Levels
293 Kelvin Cross Sections

85-At-198



10

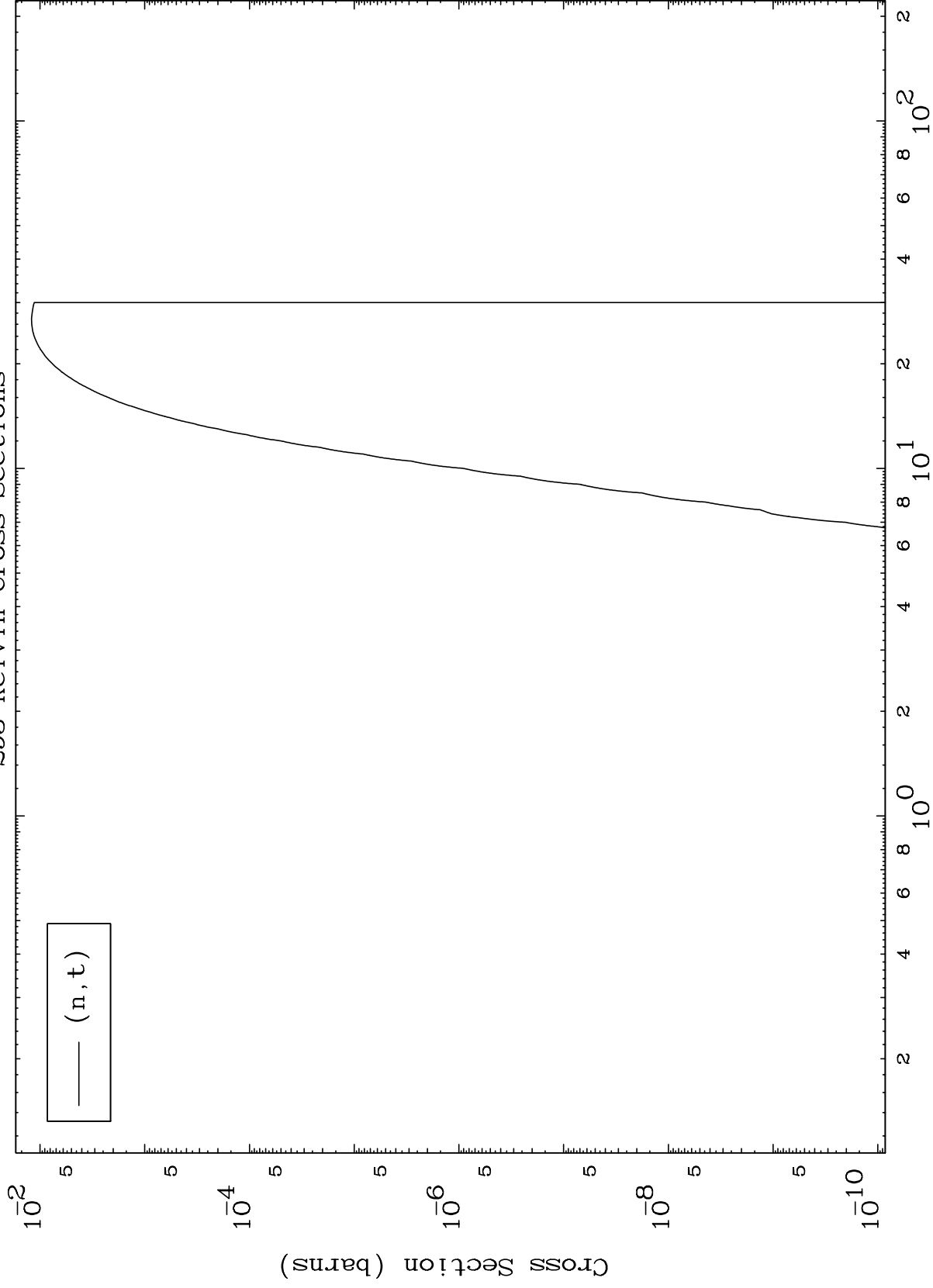
Incident Energy (MeV)

85-At-198

MAT 8510

(n,t) Levels
293 Kelvin Cross Sections

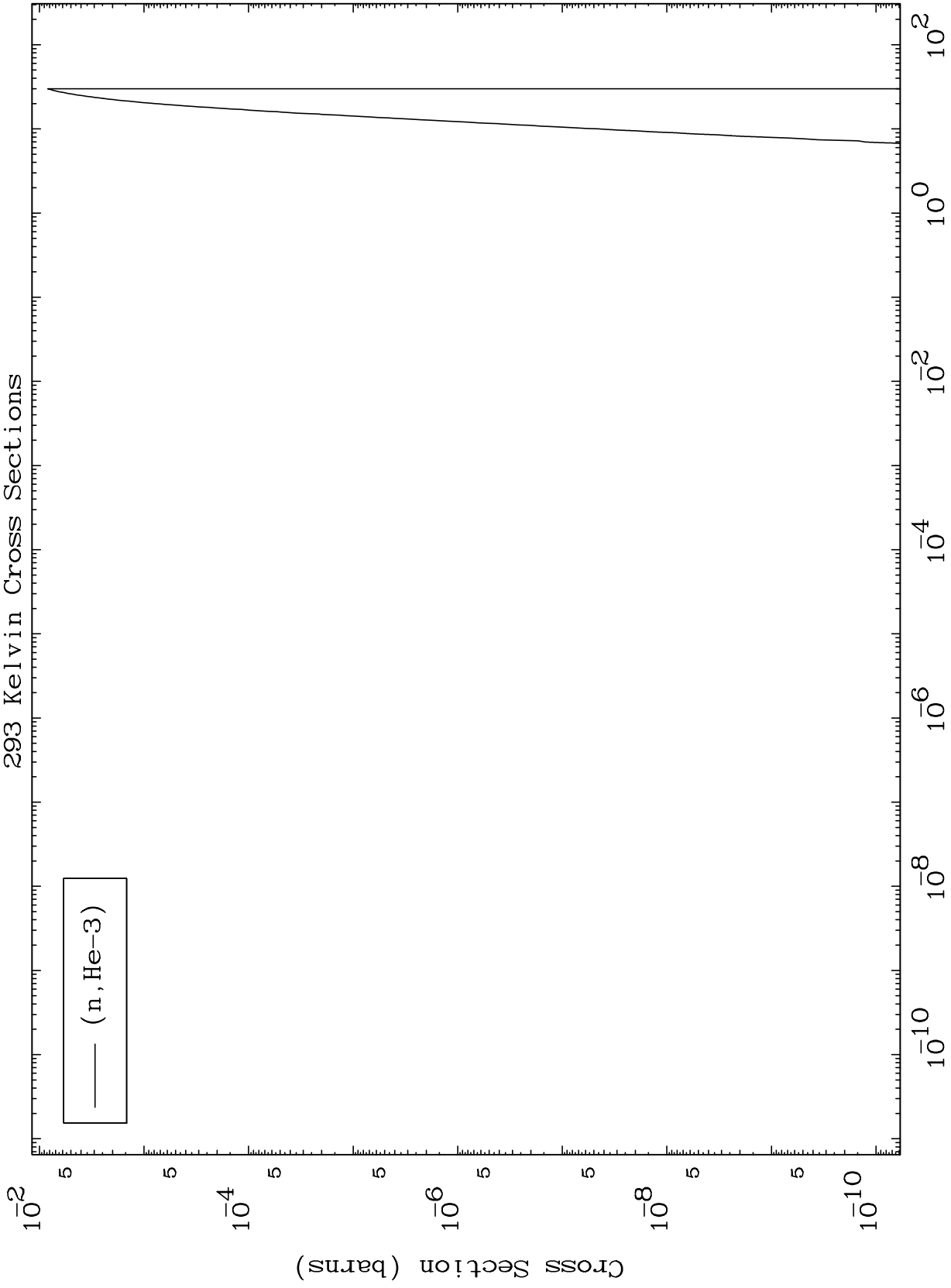
85-At-198



MAT 8510

(n,He3) Levels
293 Kelvin Cross Sections

85-At-198



12

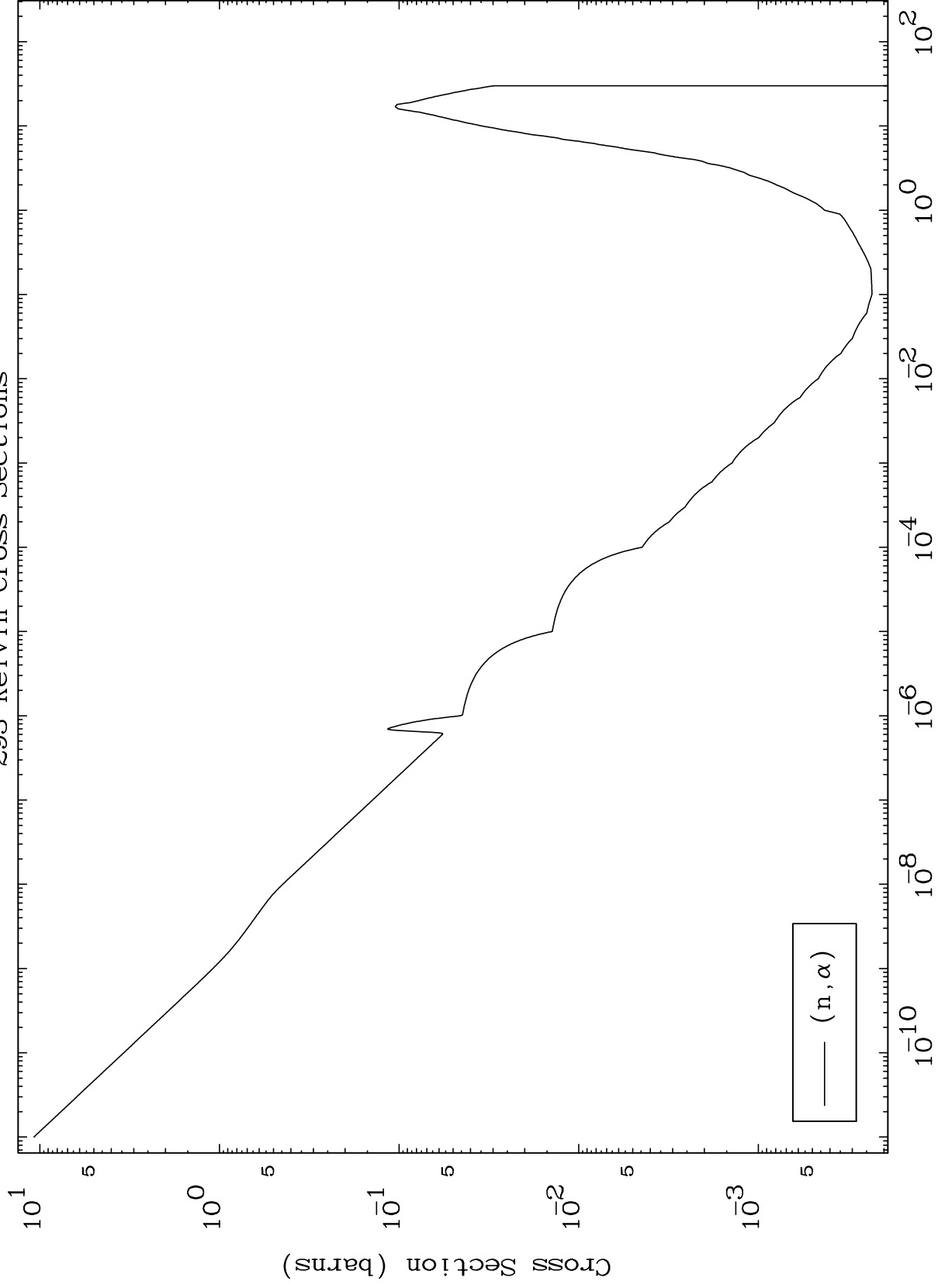
Incident Energy (MeV)

85-At-198

MAT 8510

(n,α) Levels
293 Kelvin Cross Sections

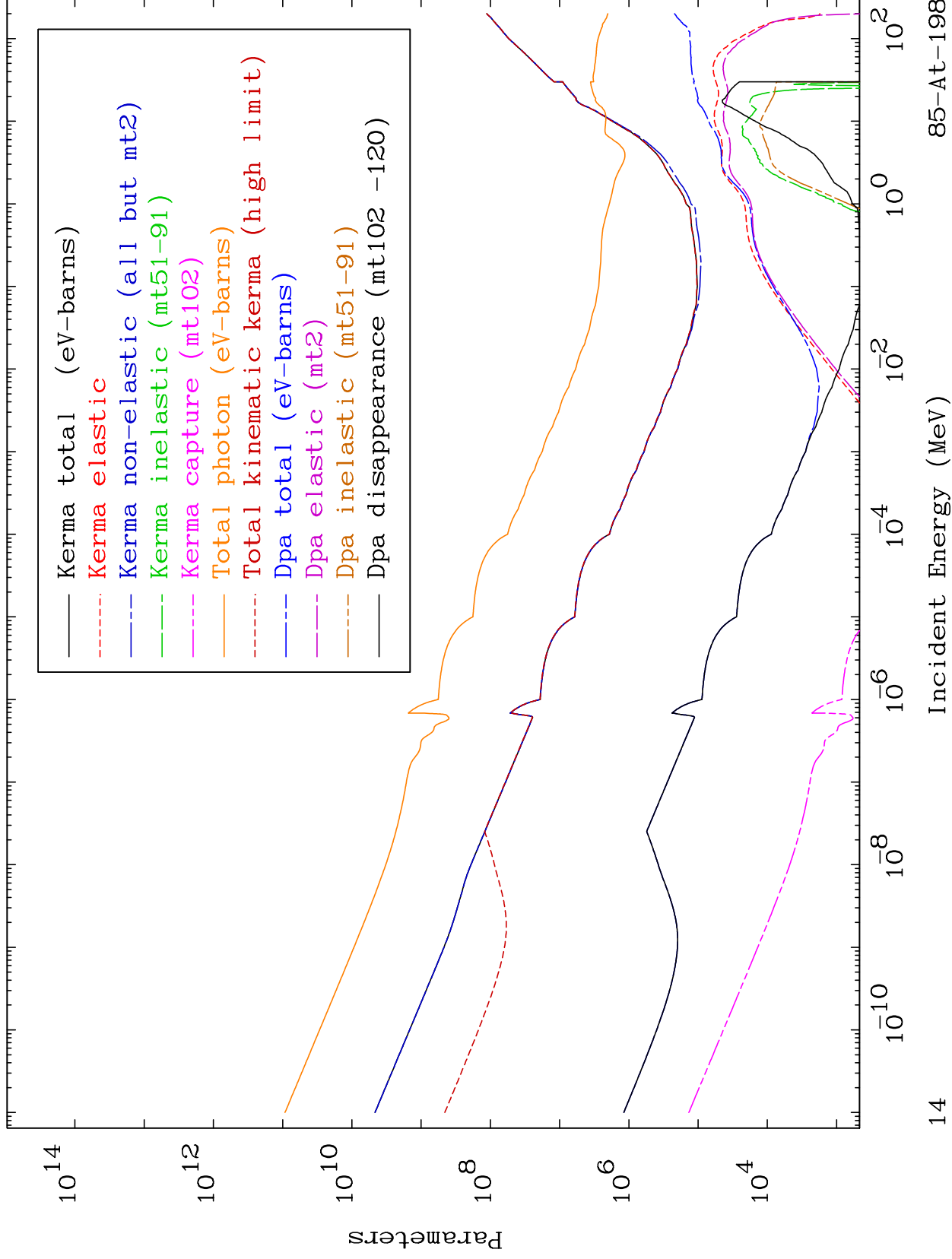
85-At-198



13

Incident Energy (MeV)

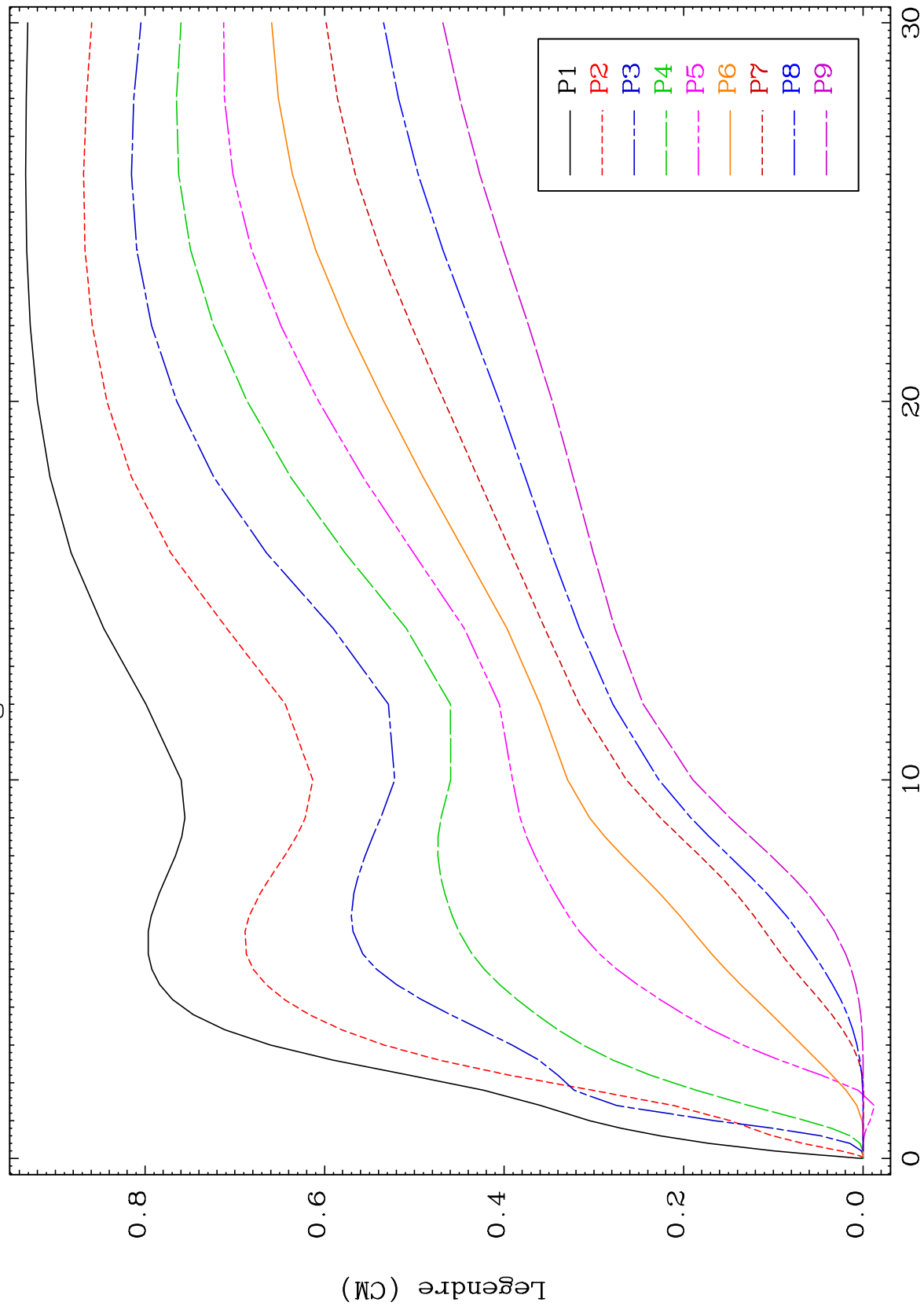
85-At-198



MAT 8510

85-At-198

Elastic Legendre Coefficients



85-At-198

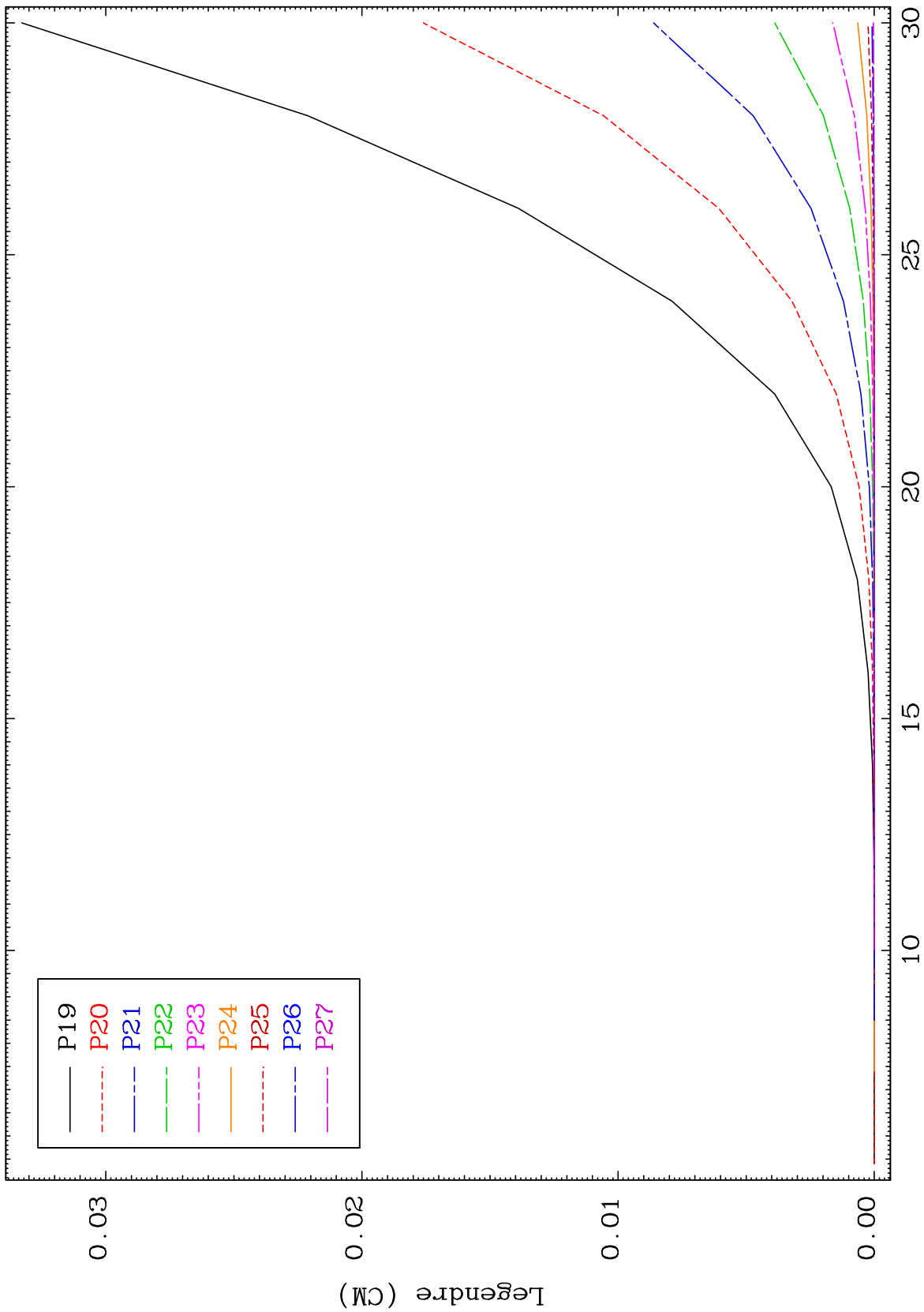
Incident Energy (MeV)

15

MAT 8510

Elastic Legendre Coefficients

85-At-198



17

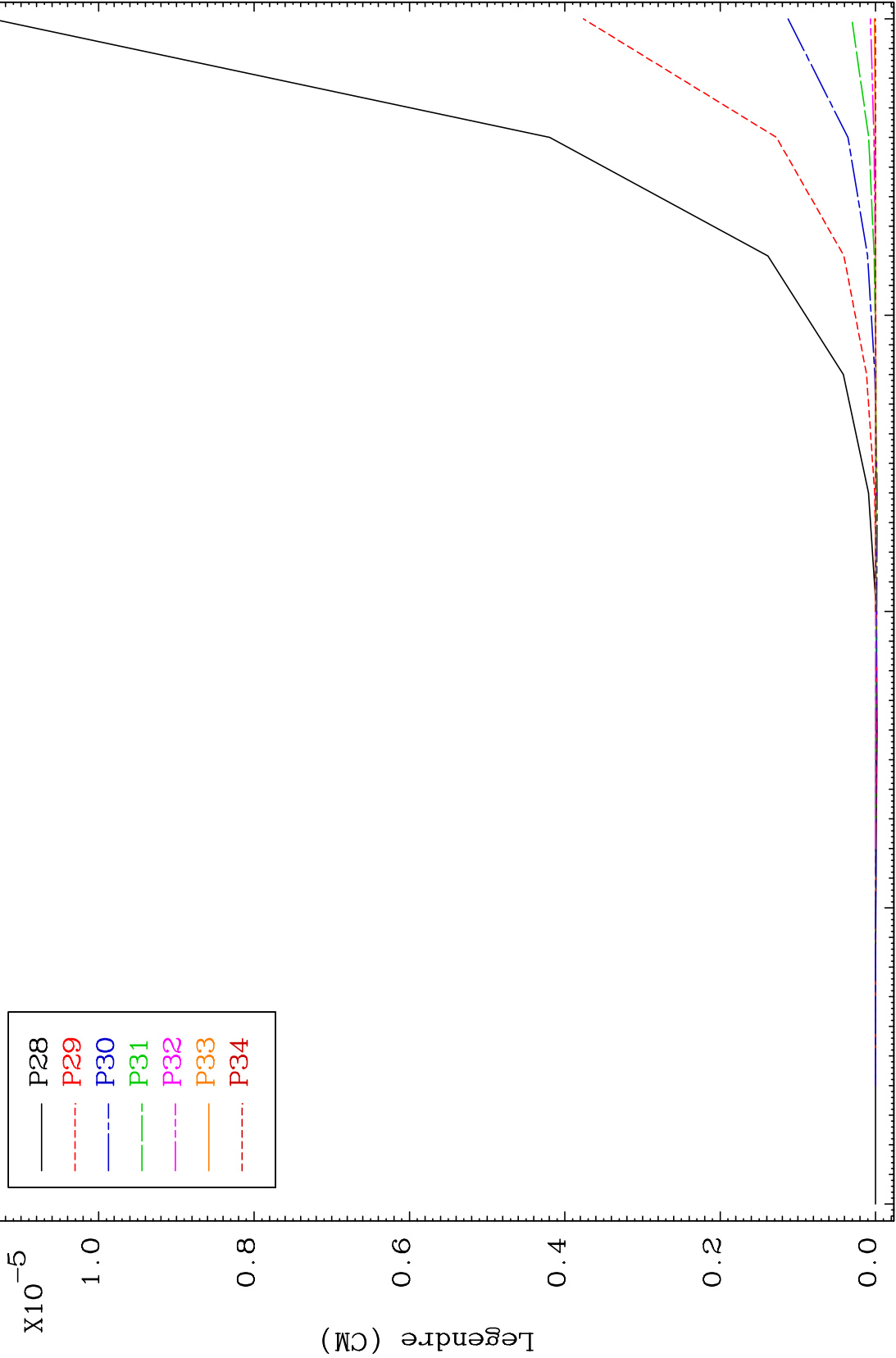
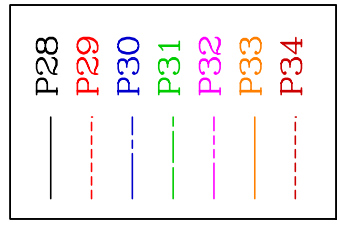
Incident Energy (MeV)

85-At-198

MAT 8510

Elastic
Legendre Coefficients

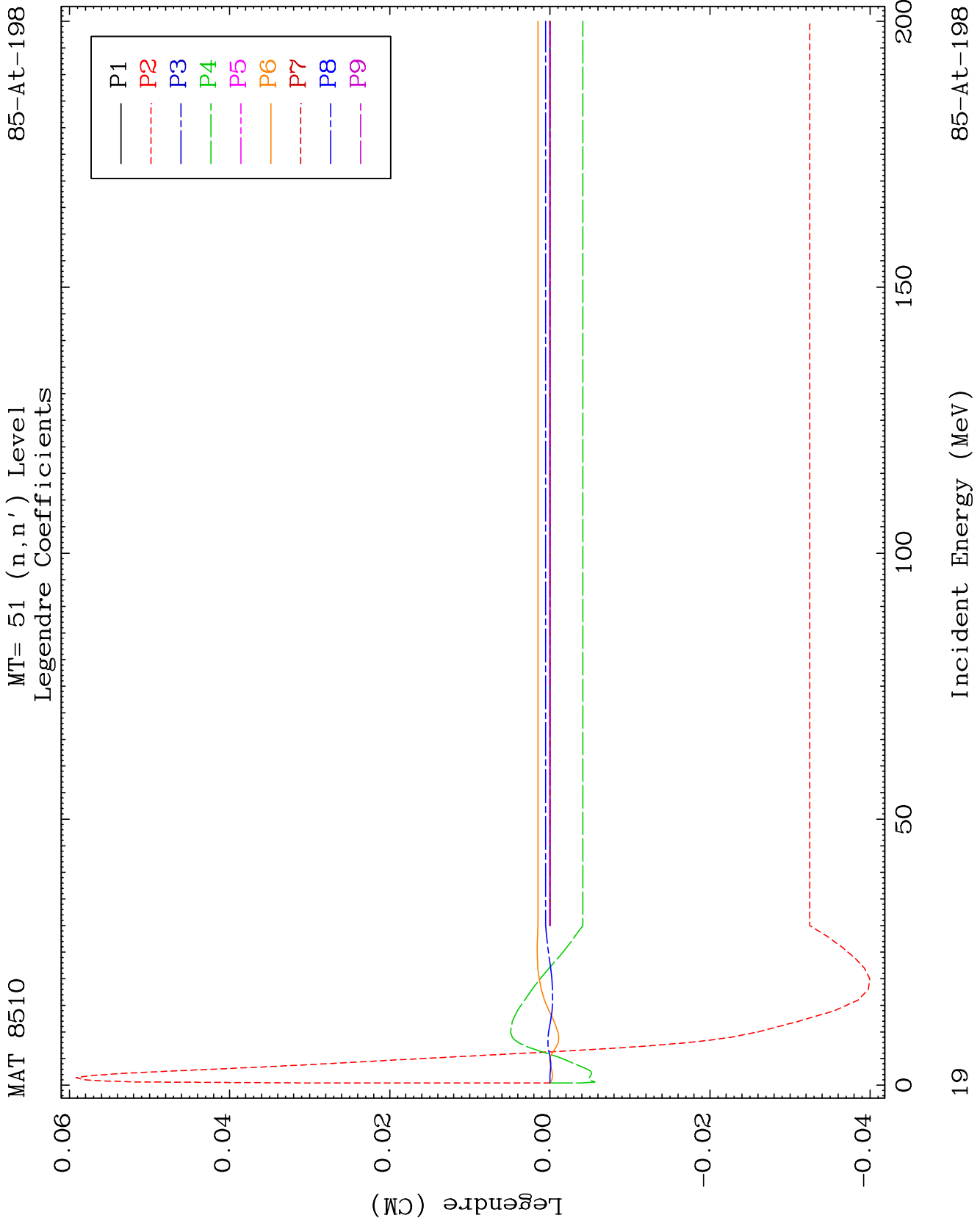
85-At-198



18

Incident Energy (MeV)

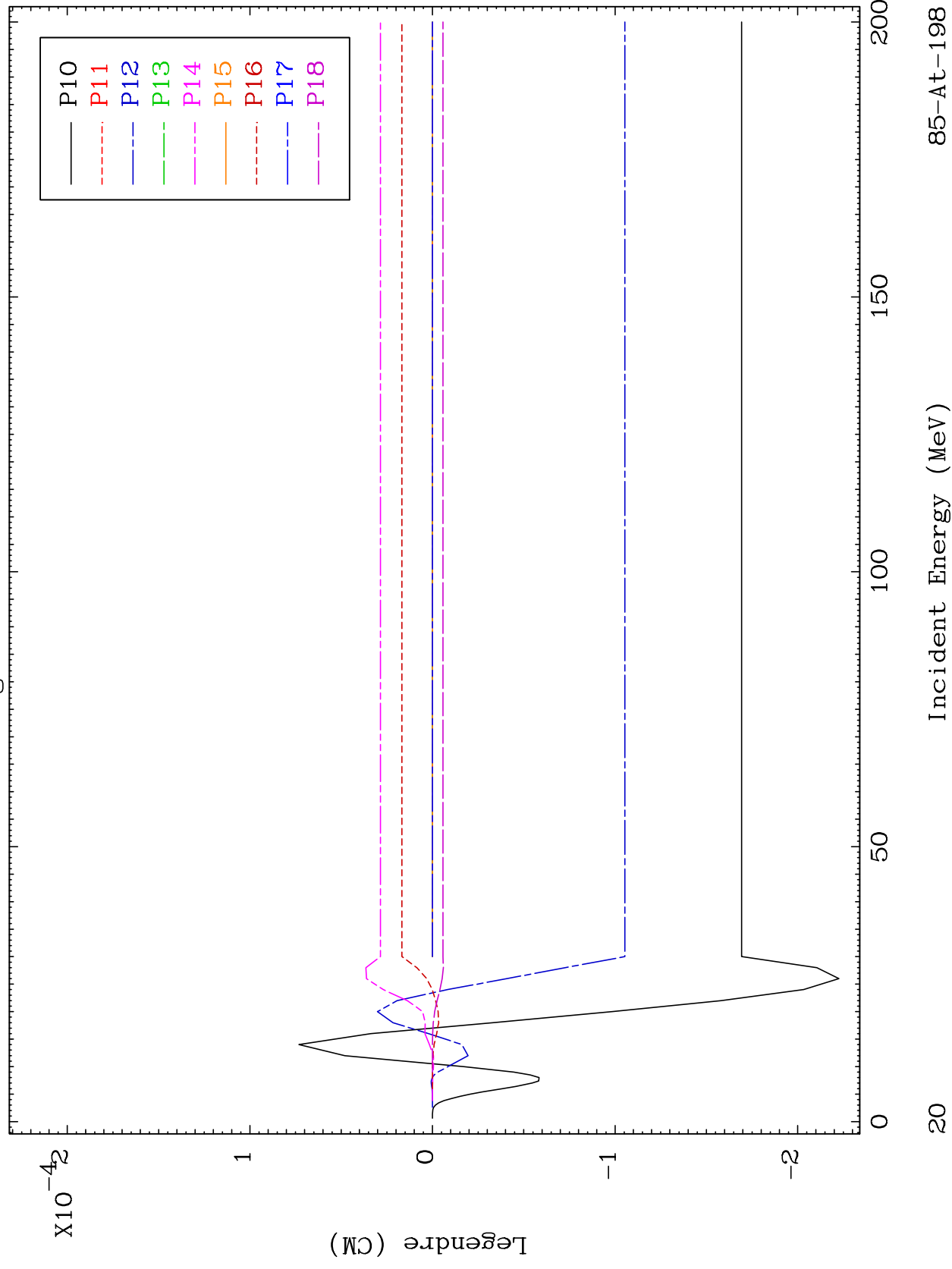
85-At-198



MAT 8510

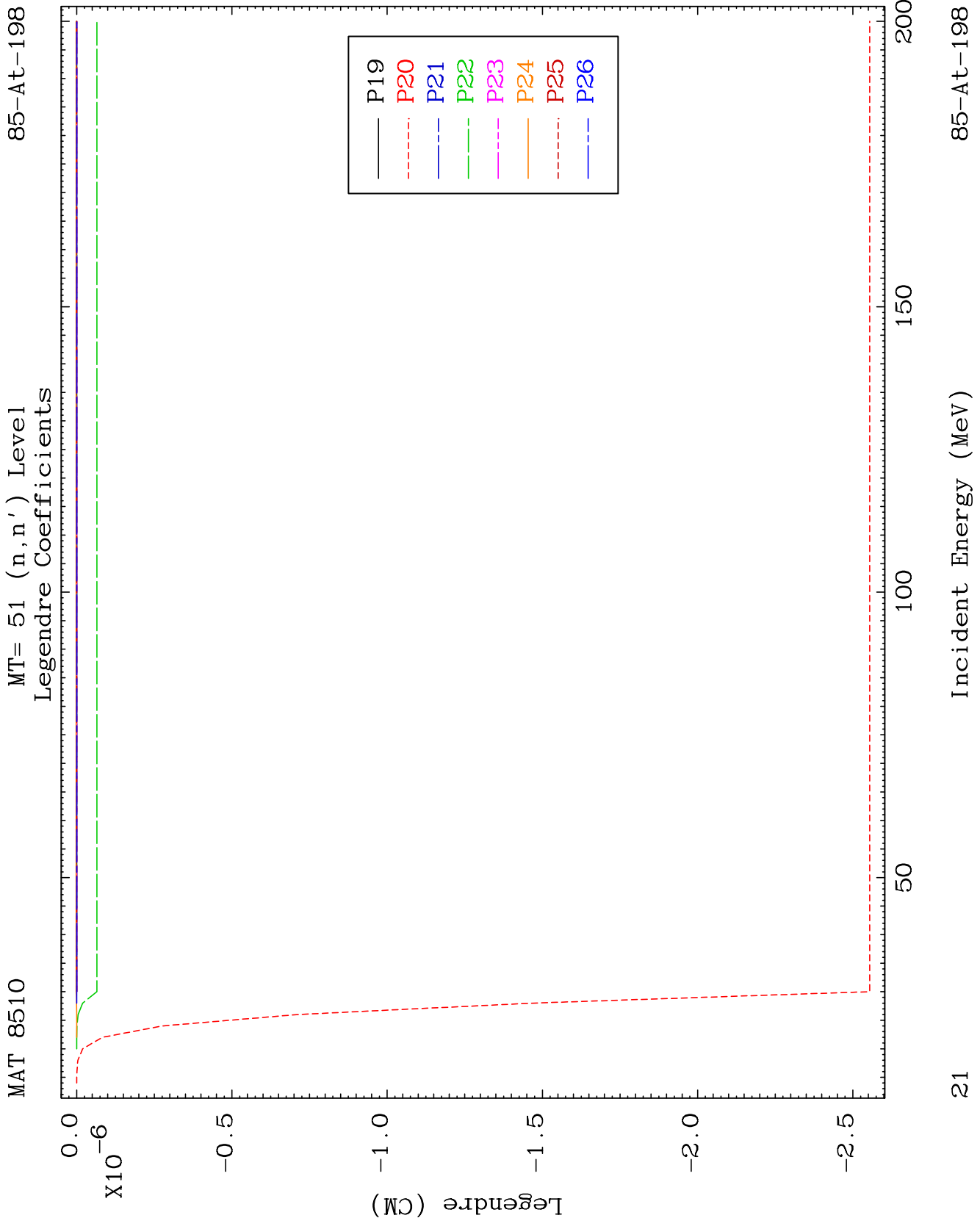
MT= 51 (n,n') Level
Legendre Coefficients

85-At-198



85-At-198

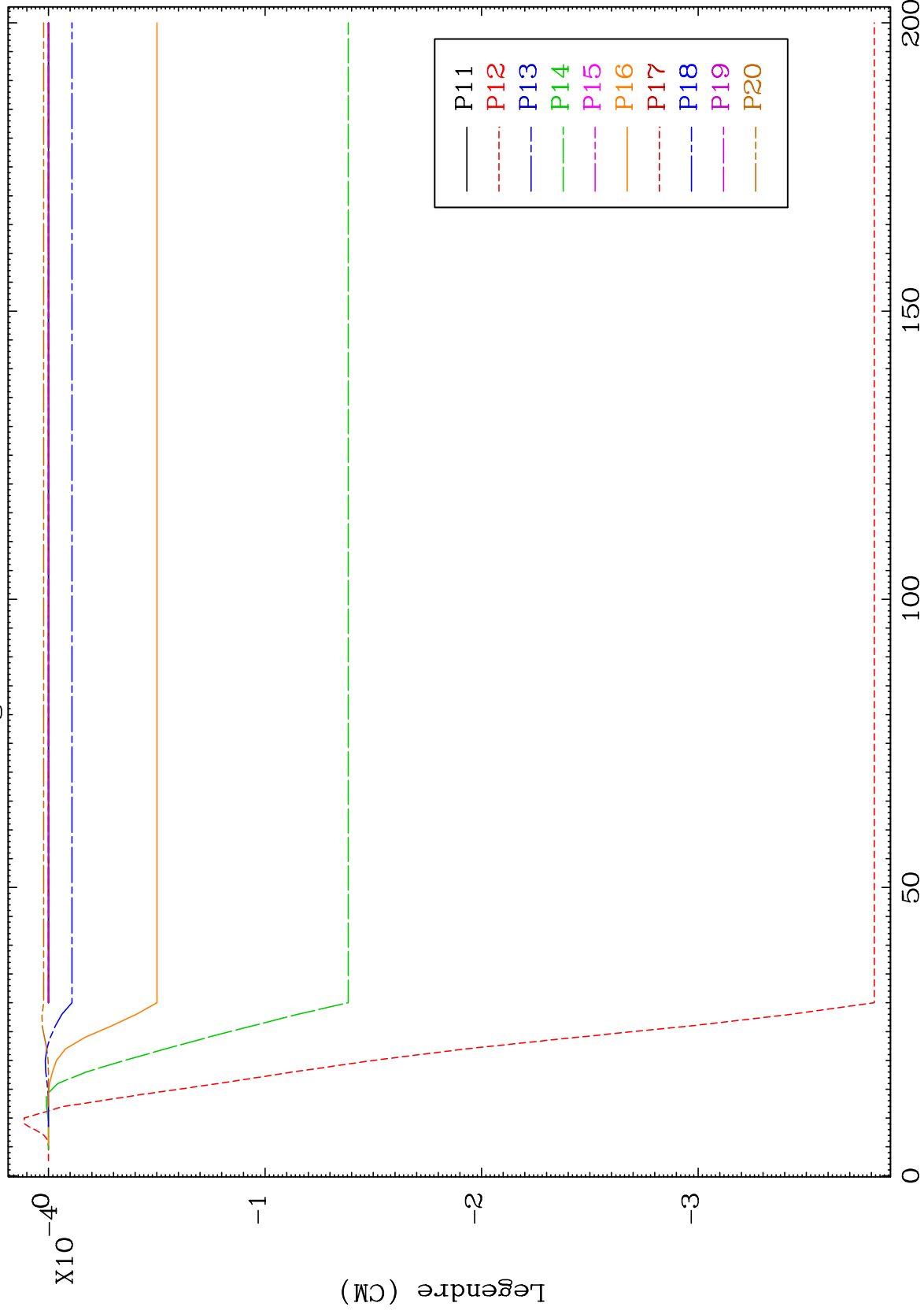
Incident Energy (MeV)



MAT 8510

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

85-At-198



23

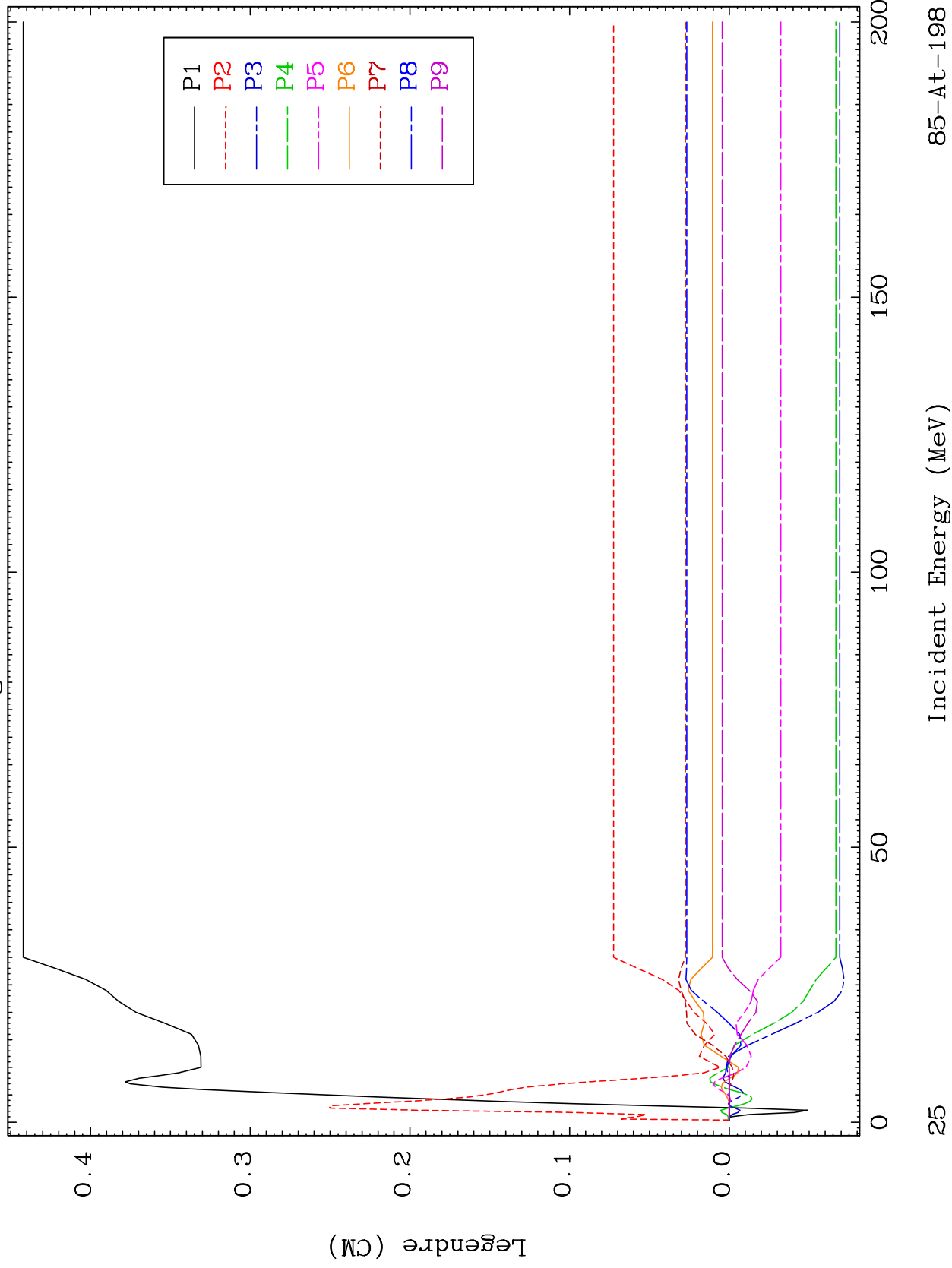
Incident Energy (MeV)

85-At-198

MAT 8510

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

85-At-198



85-At-198

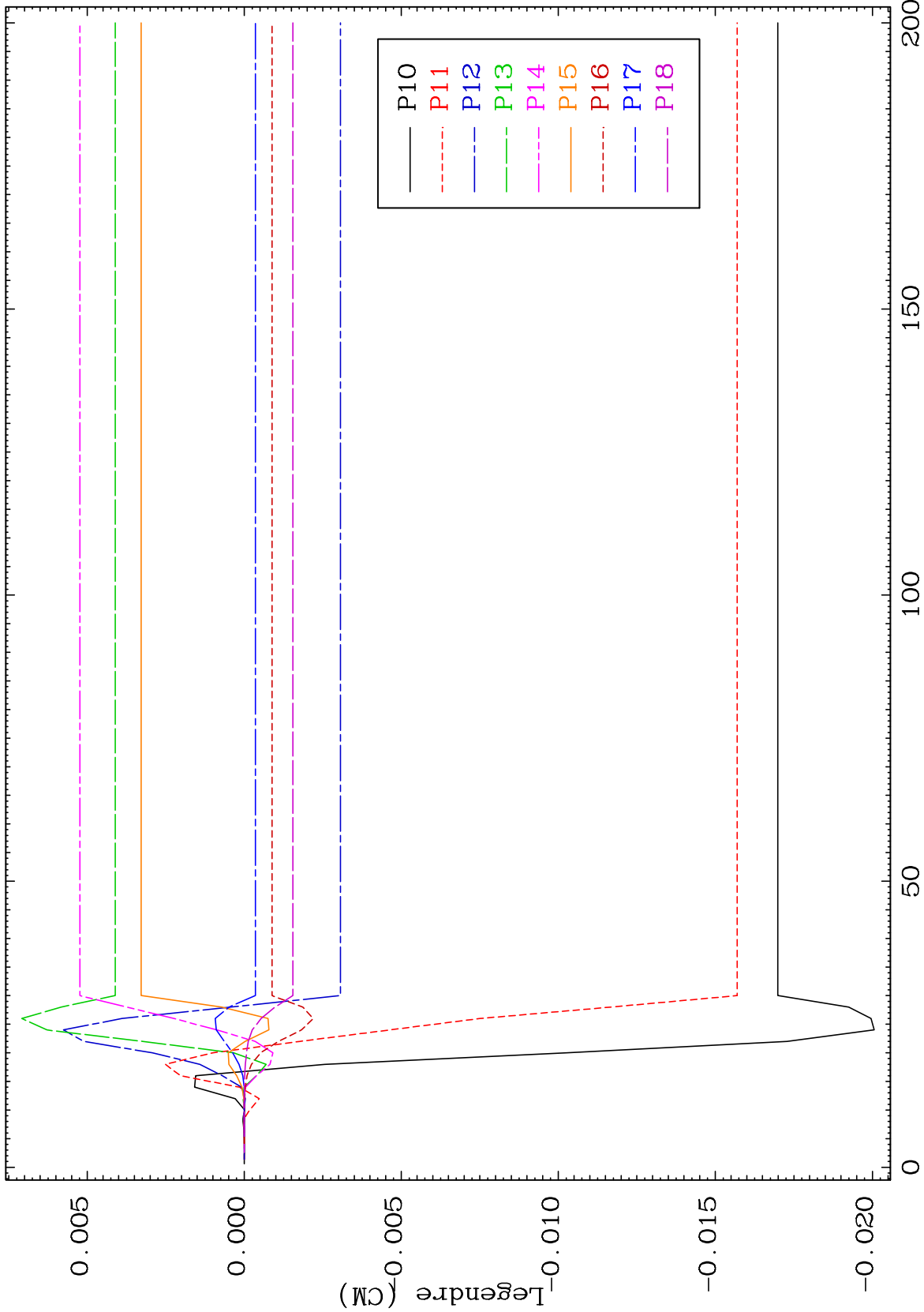
Incident Energy (MeV)

25

MAT 8510

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

85-At-198



26

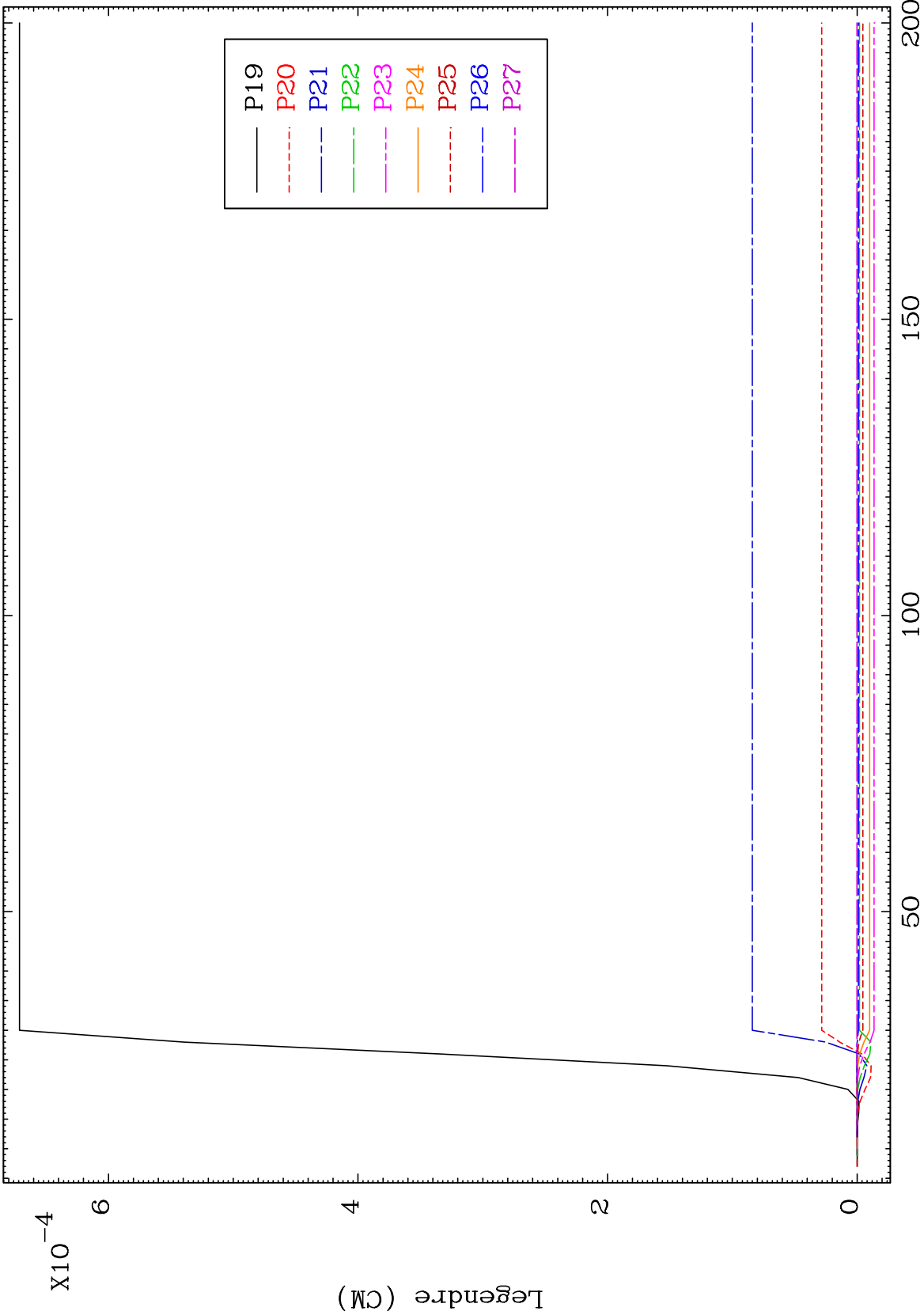
Incident Energy (MeV)

85-At-198

MAT 8510

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

85-At-198

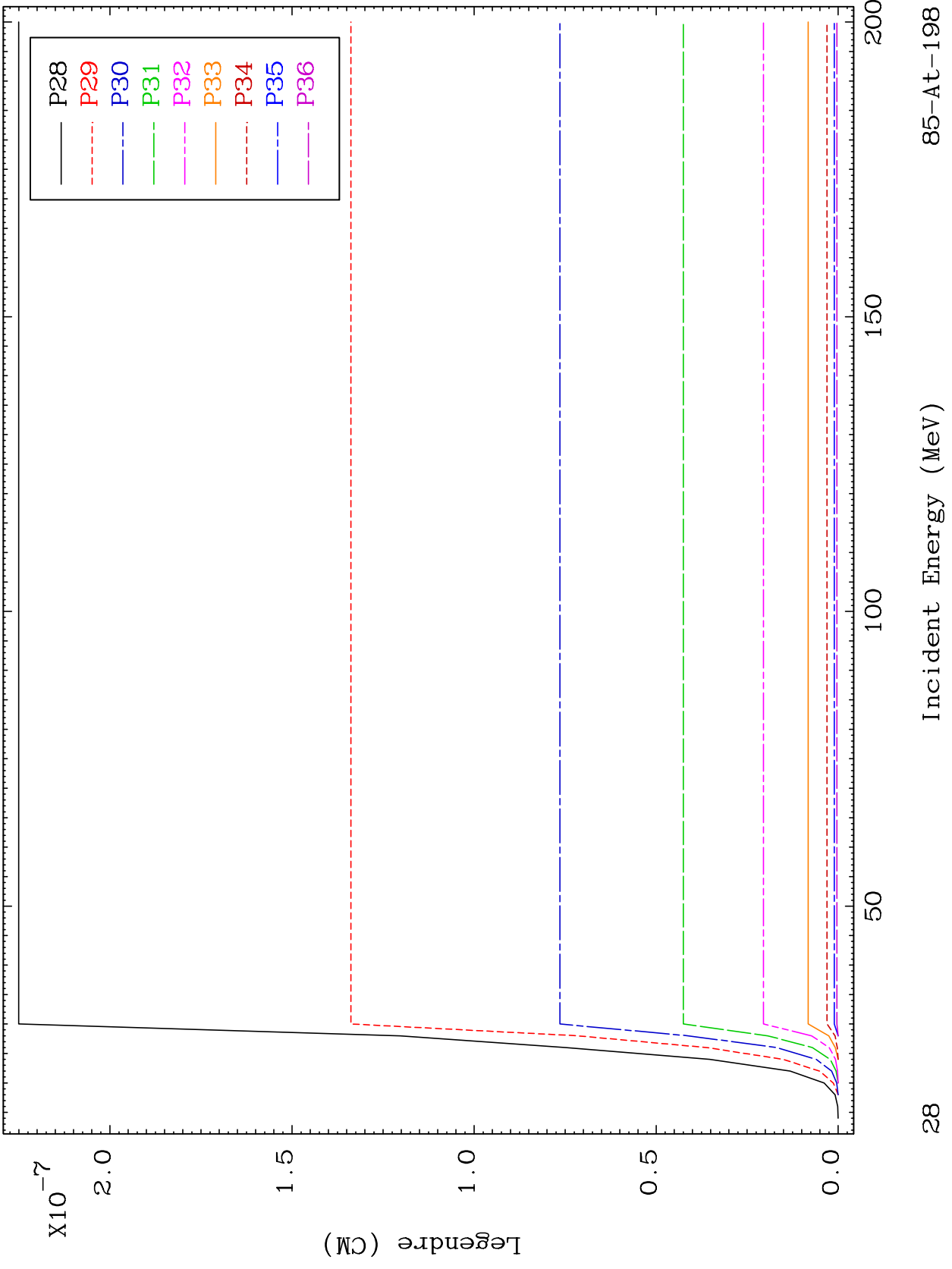


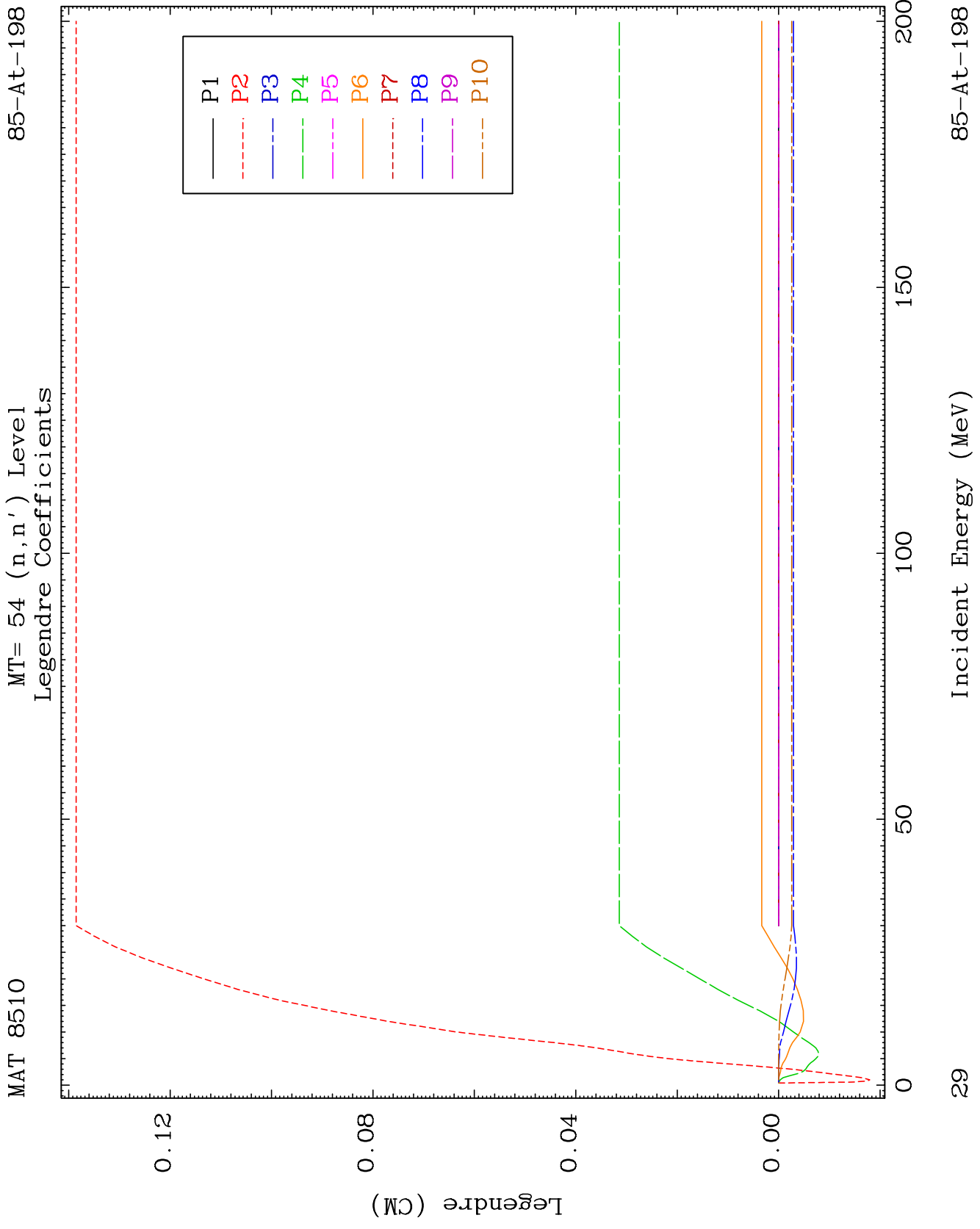
27

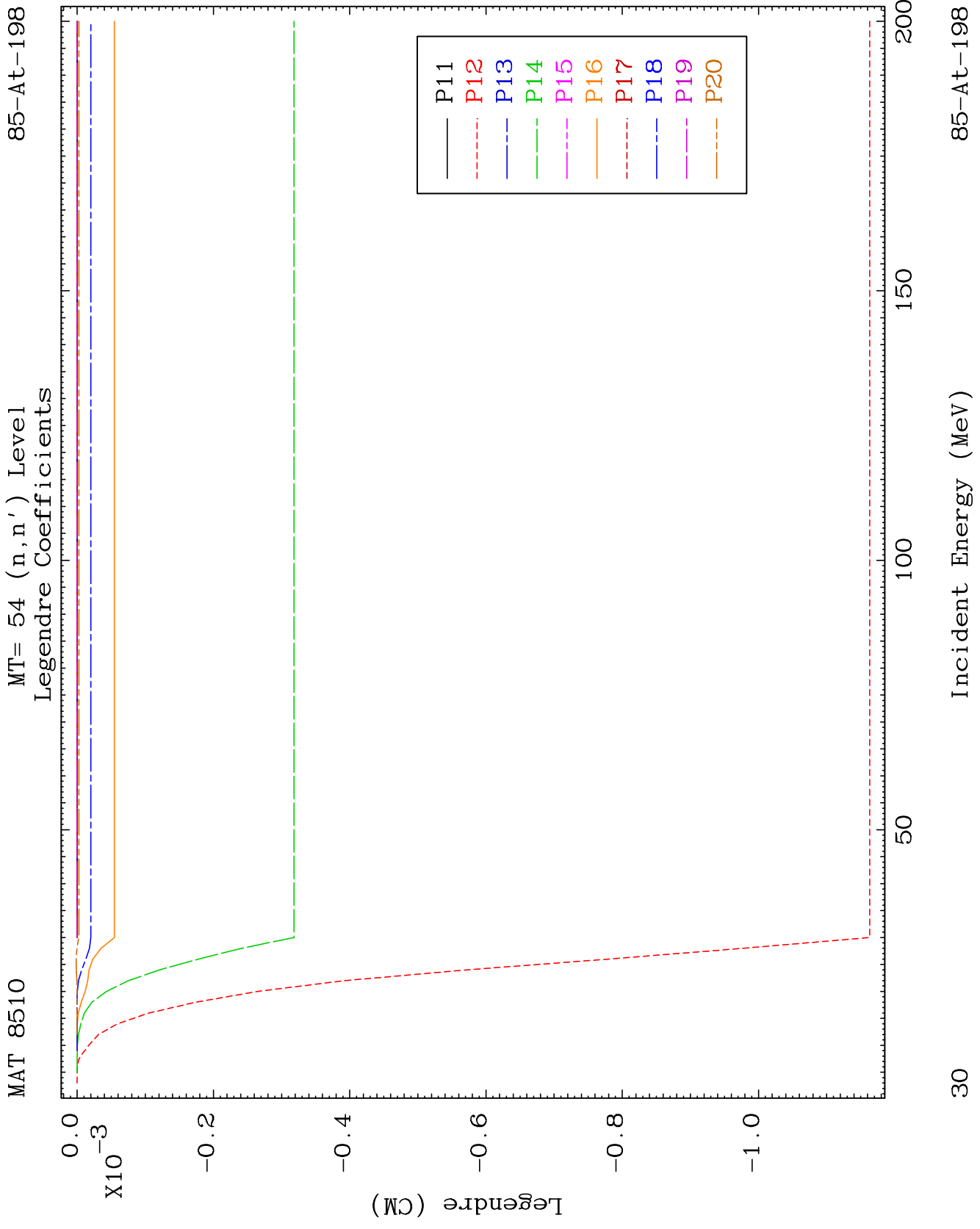
Incident Energy (MeV)

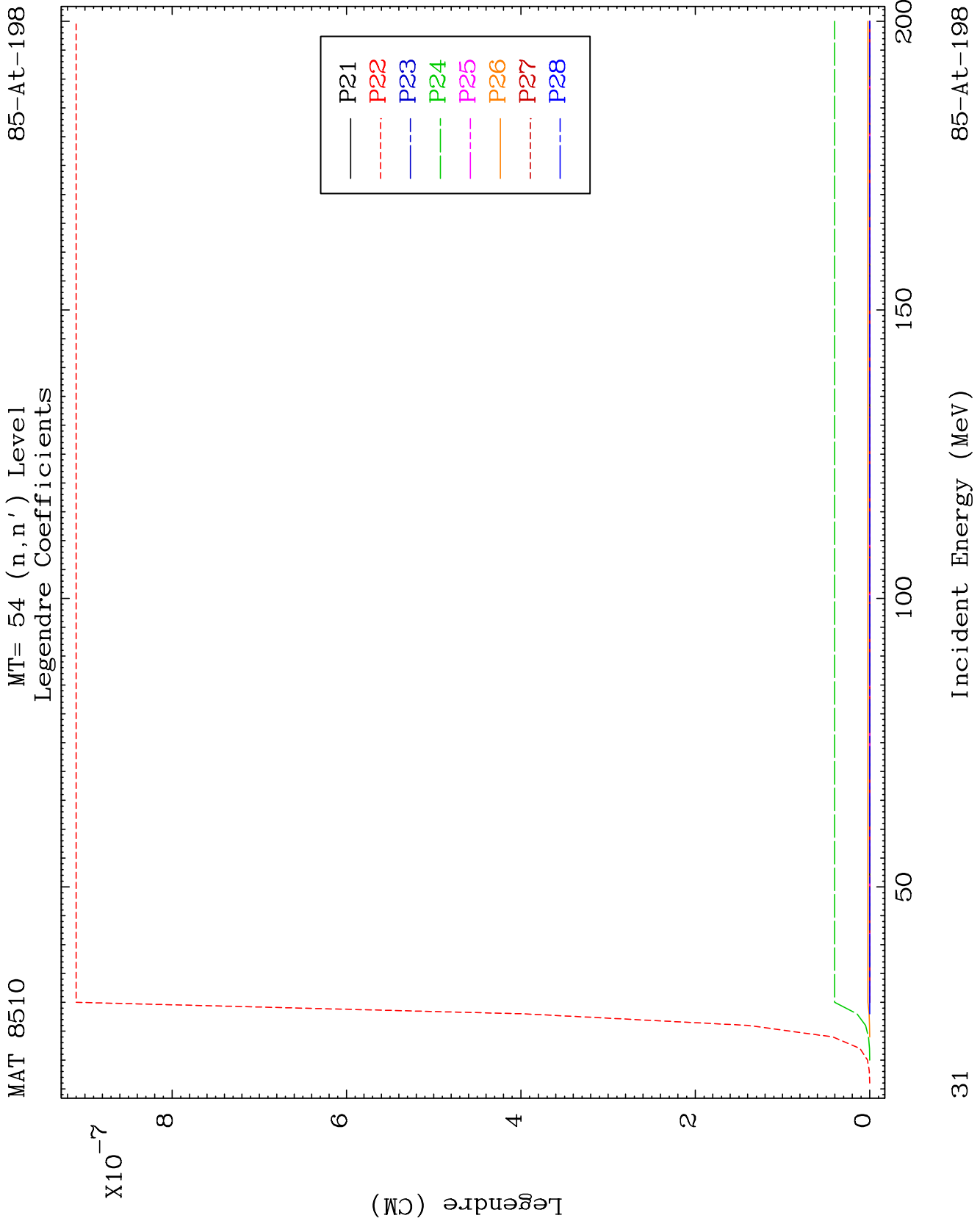
85-At-198

MAT 8510 MT= 53 (n,n') Level Legendre Coefficients 85-At-198





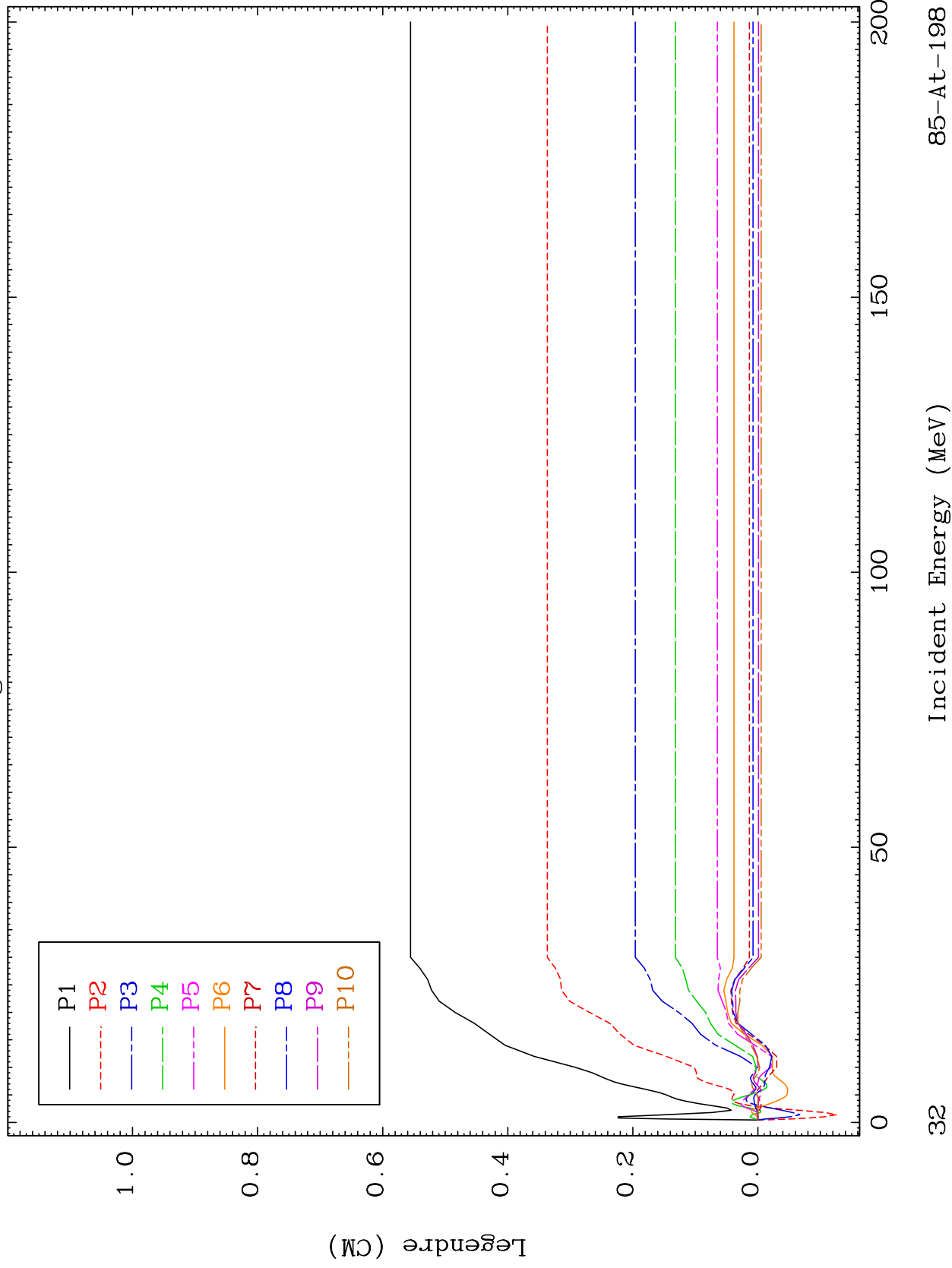




MAT 8510

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

85-At-198

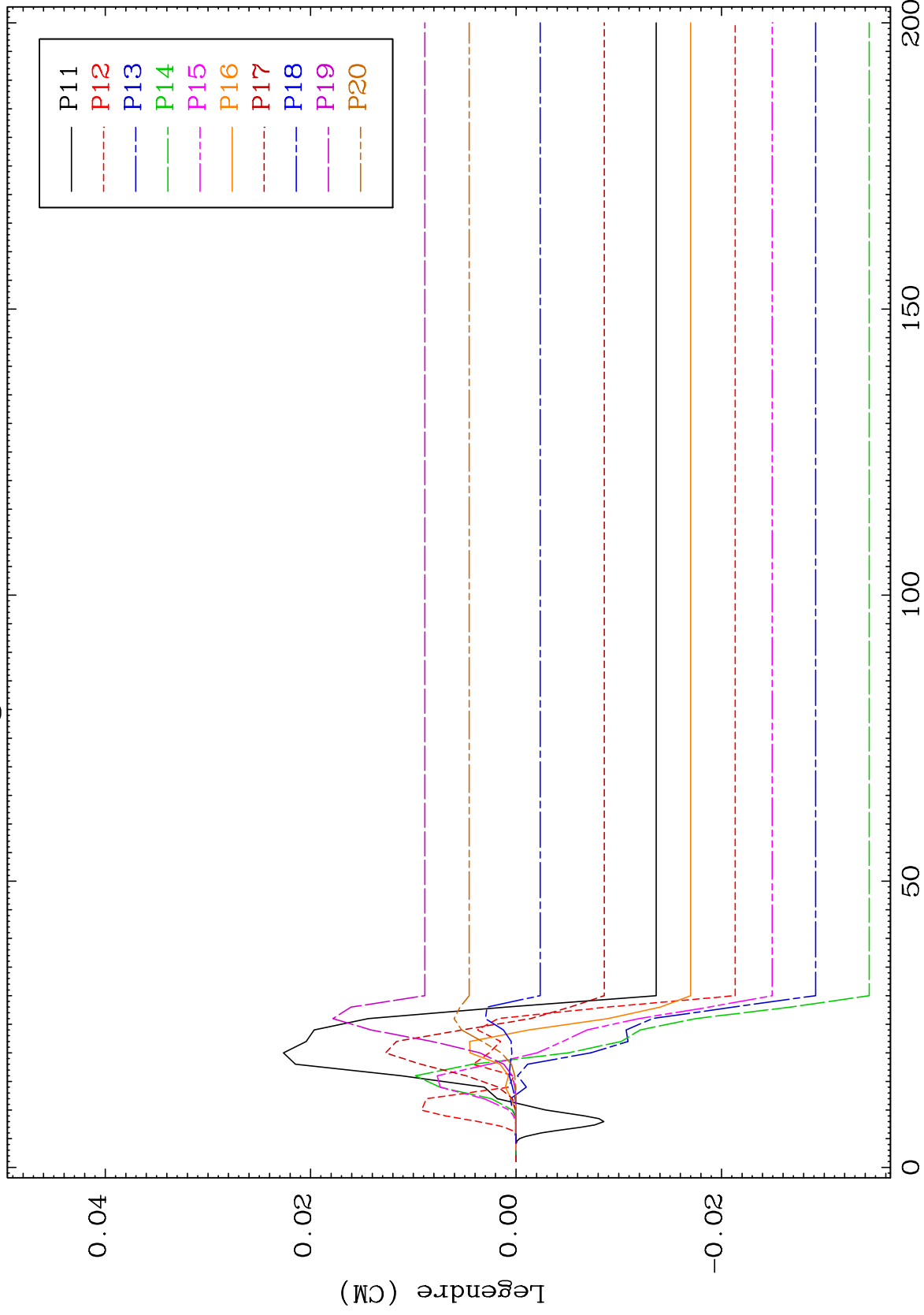


32

MAT 8510

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

85-At-198



33

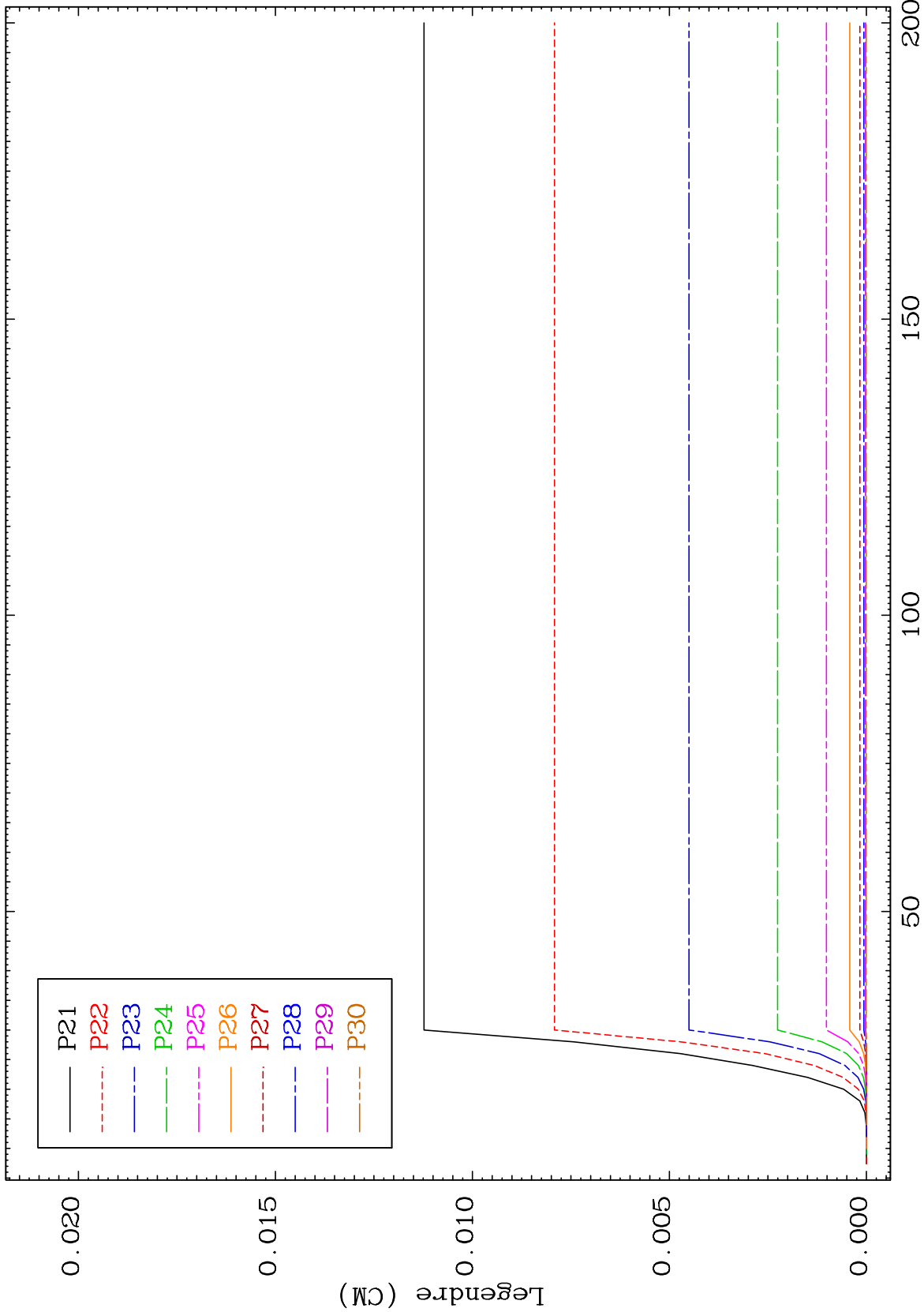
Incident Energy (MeV)

85-At-198

MAT 8510

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

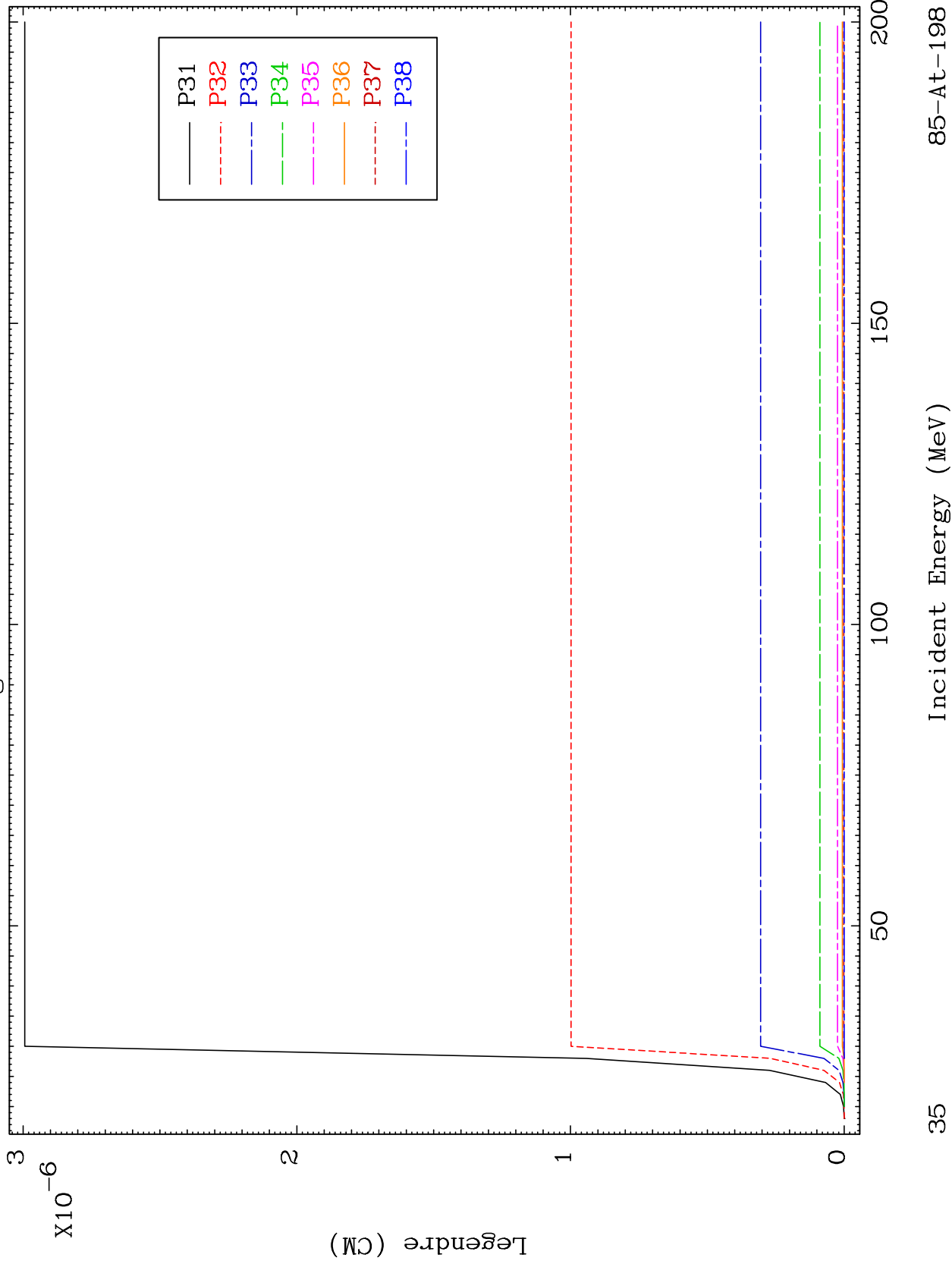
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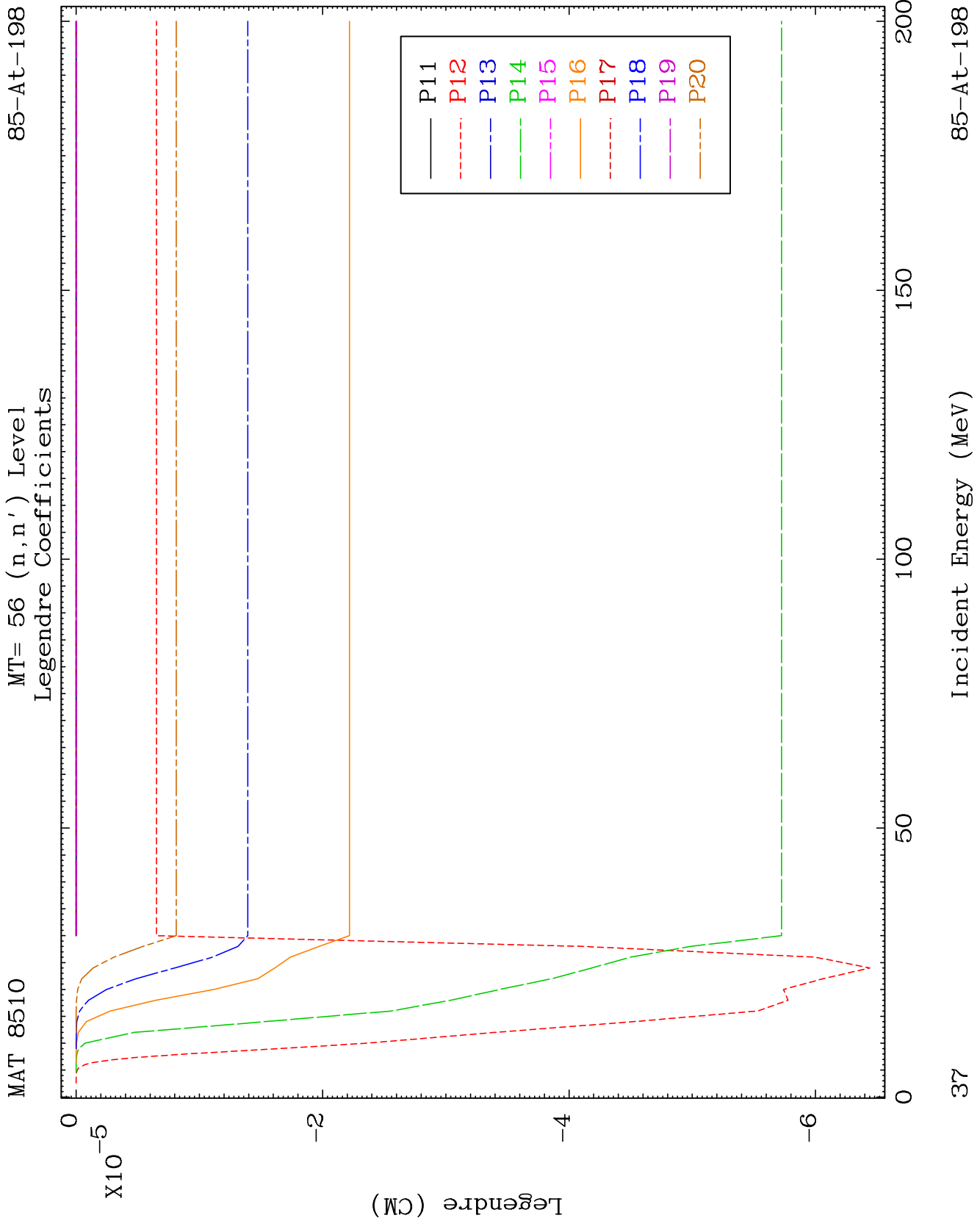


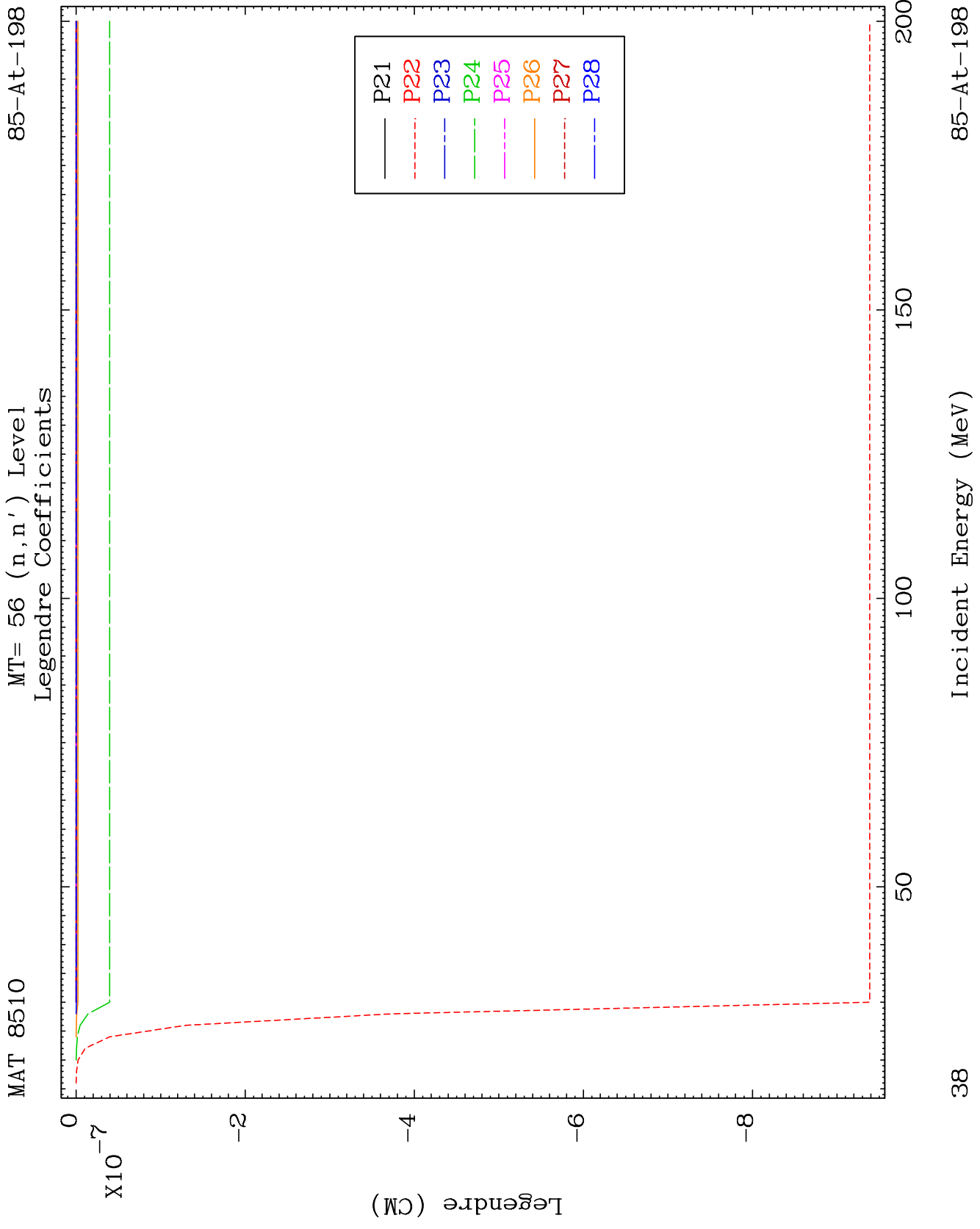
MAT 8510

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

85-At-198



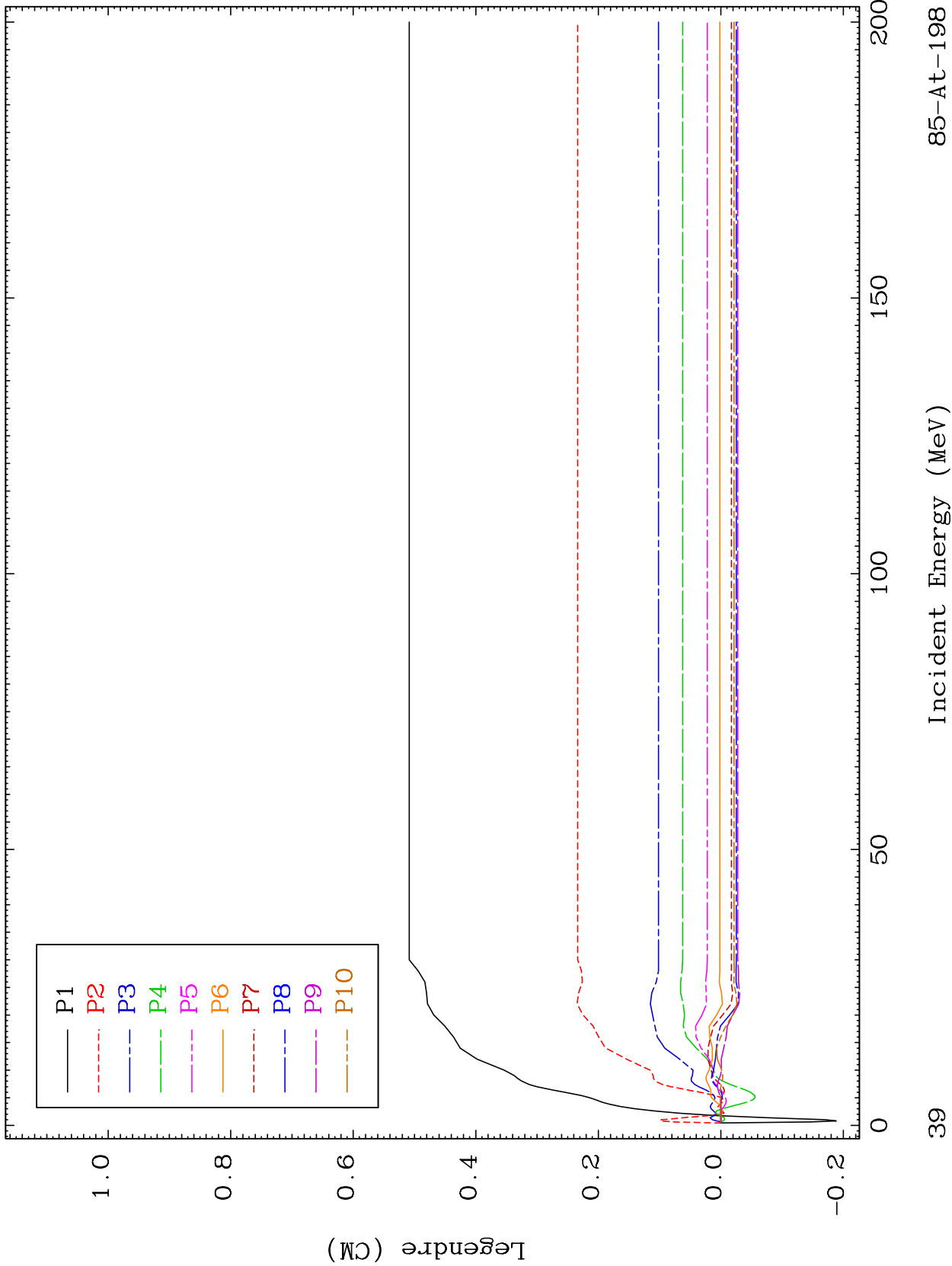




MAT 8510

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

85-At-198



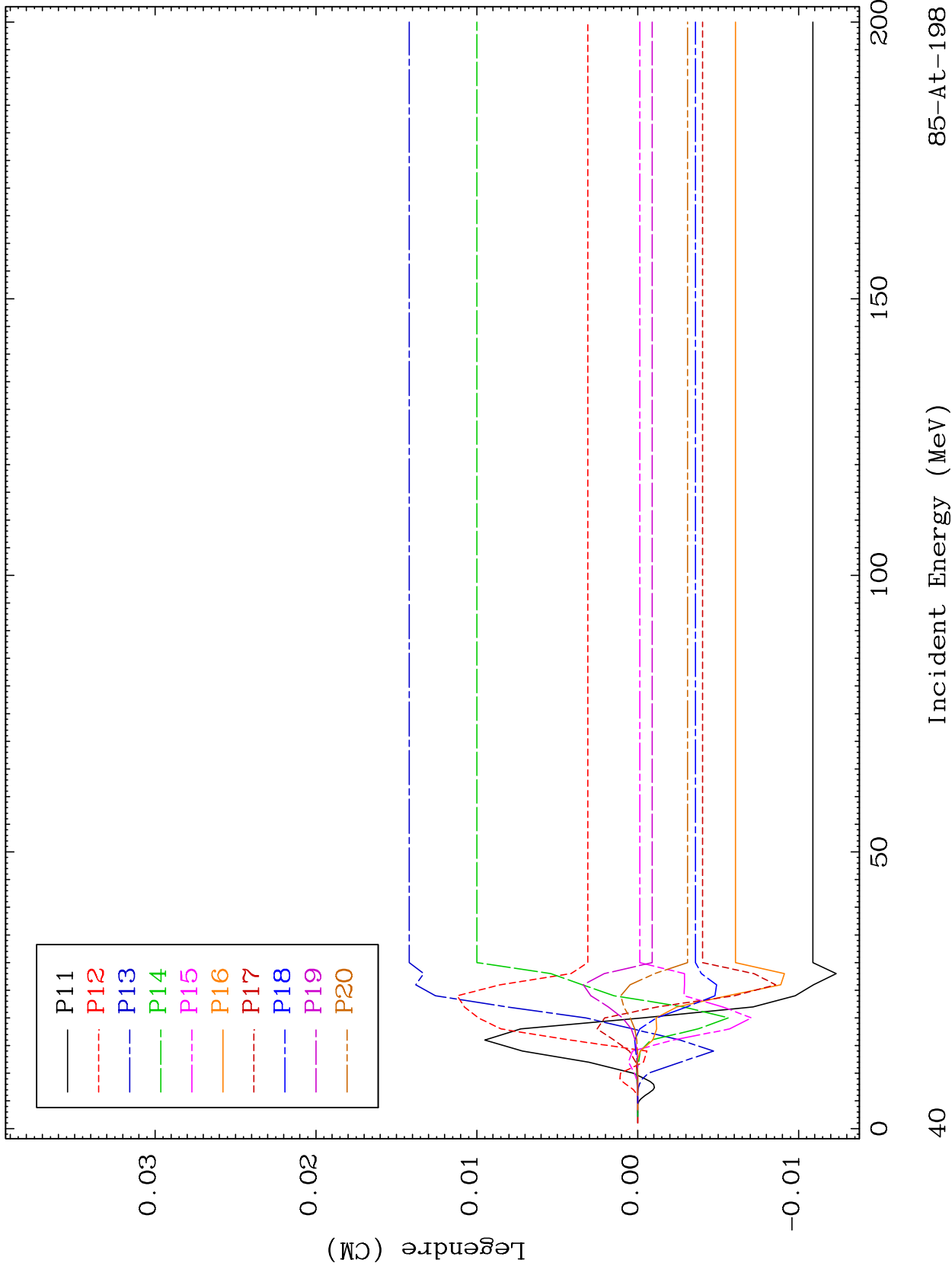
39

85-At-198

MAT 8510

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

85-At-198



85-At-198

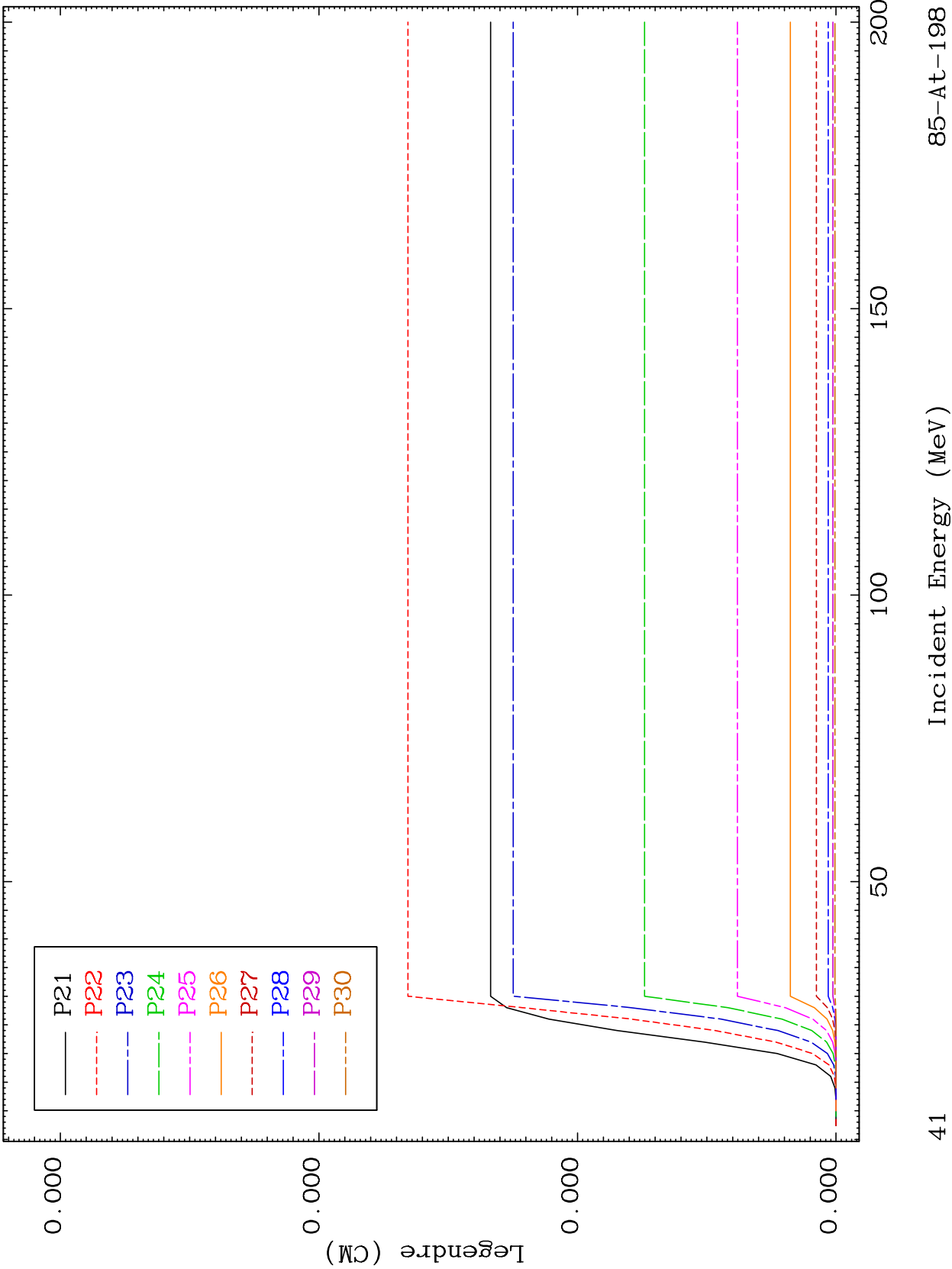
Incident Energy (MeV)

40

MAT 8510

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

85-At-198

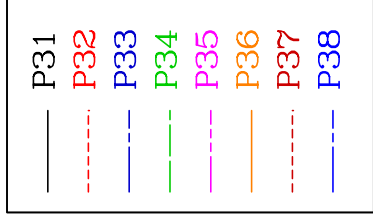


MAT 8510

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

85-At-198

$\times 10^{-6}$



Legendre (CM)

1.0

0.5

0.0

50

100

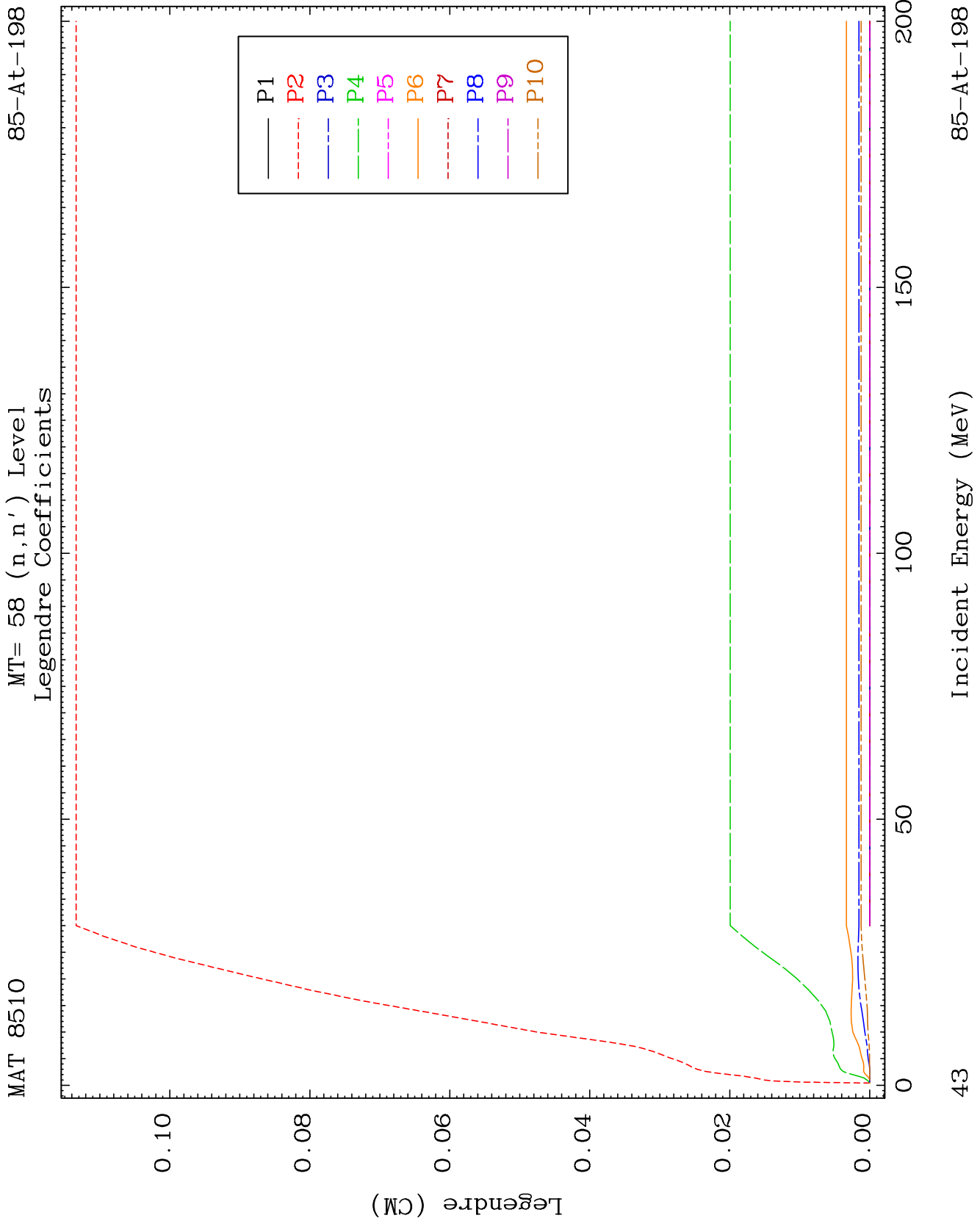
150

200

42

Incident Energy (MeV)

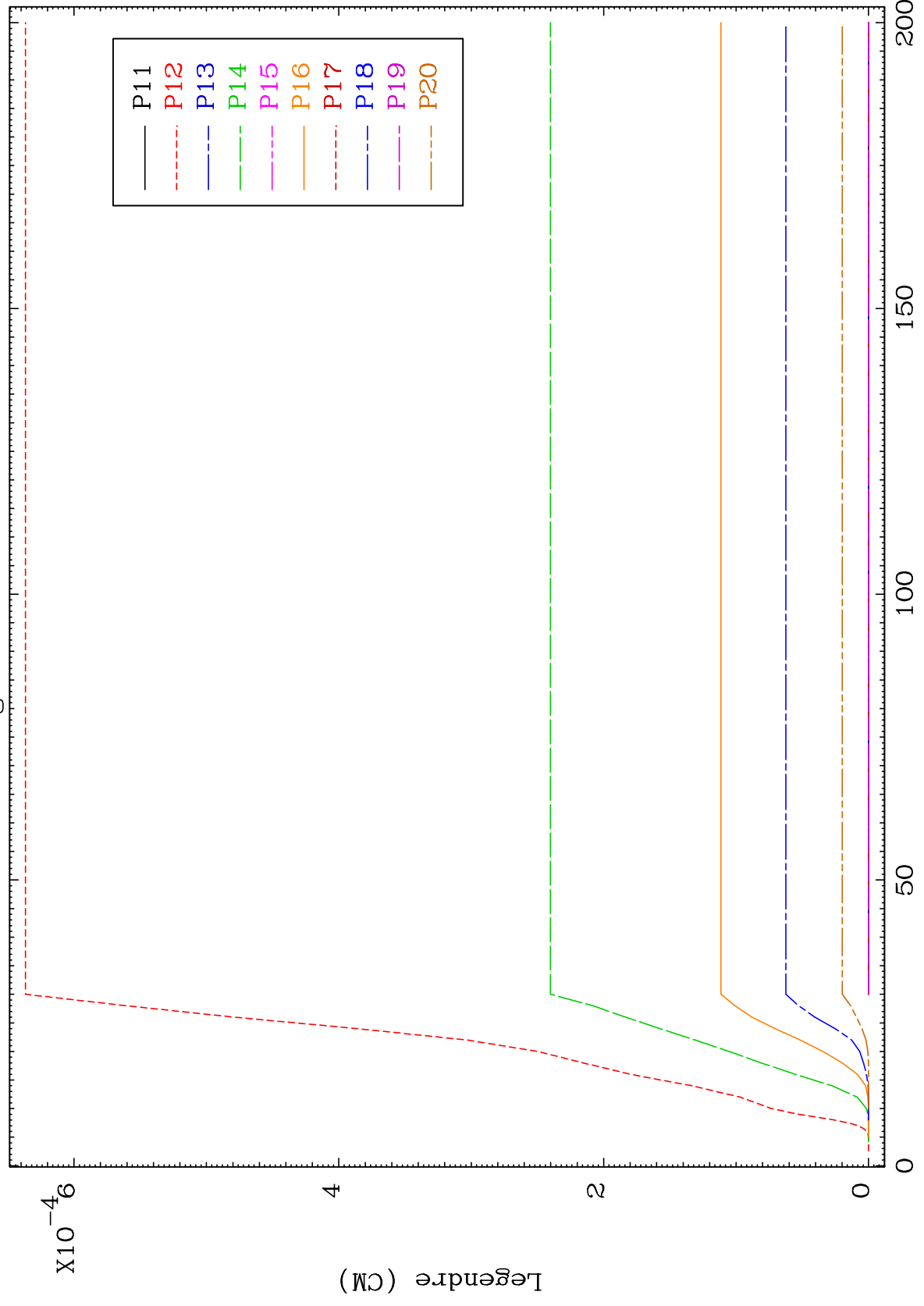
85-At-198



MAT 8510

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

85-At-198



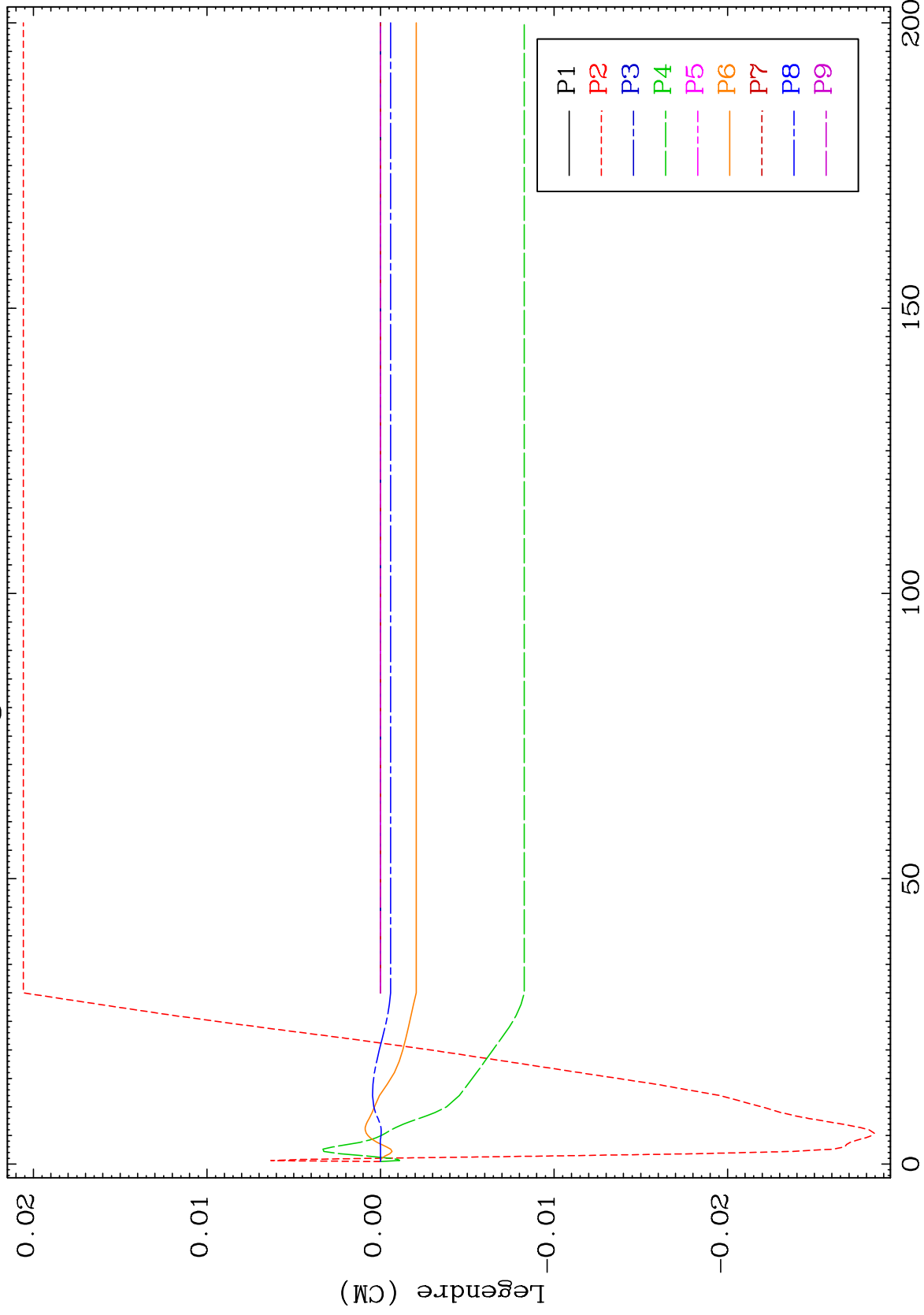
44

85-At-198

MAT 8510

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

85-At-198



46

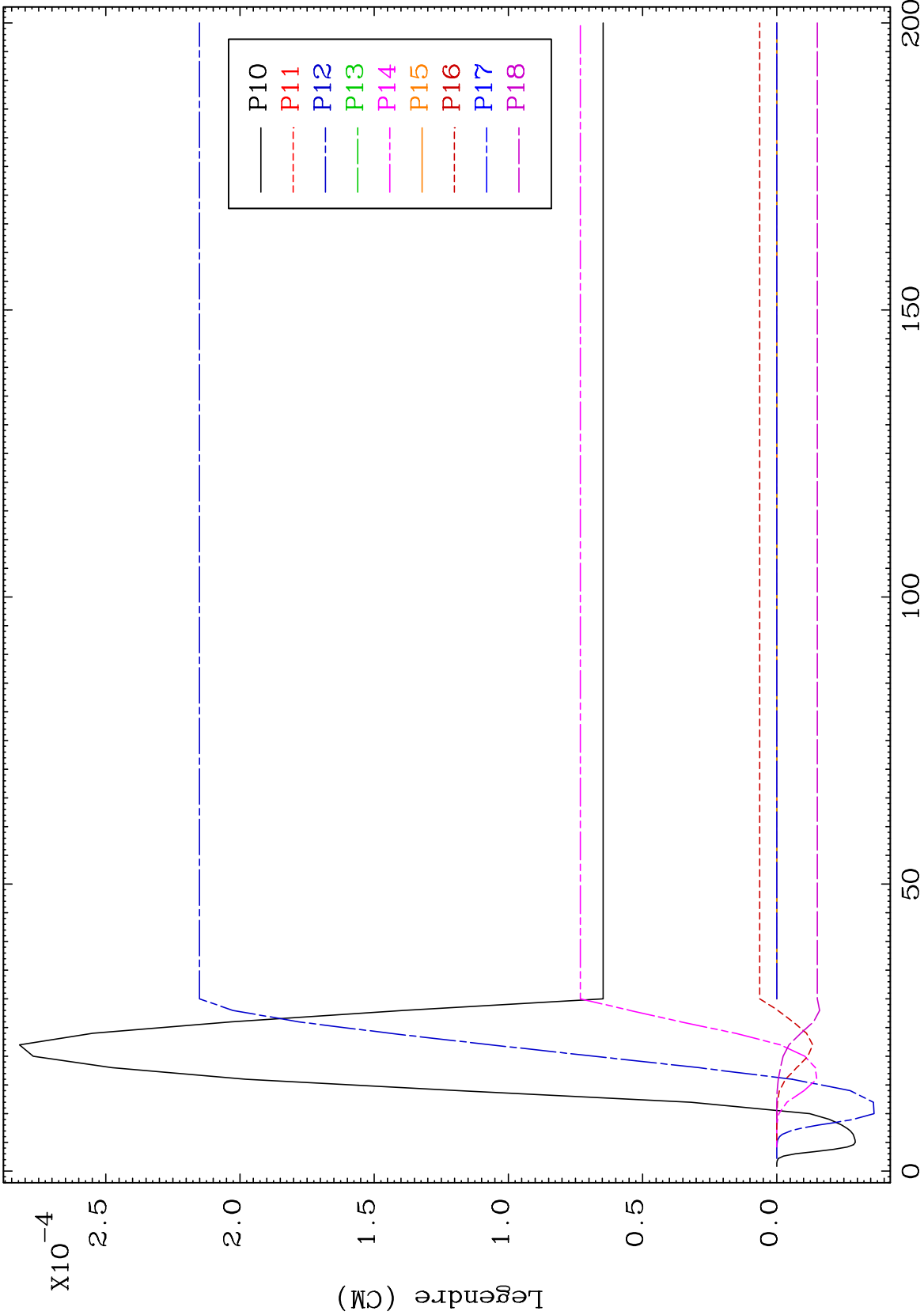
Incident Energy (MeV)

85-At-198

MAT 8510

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

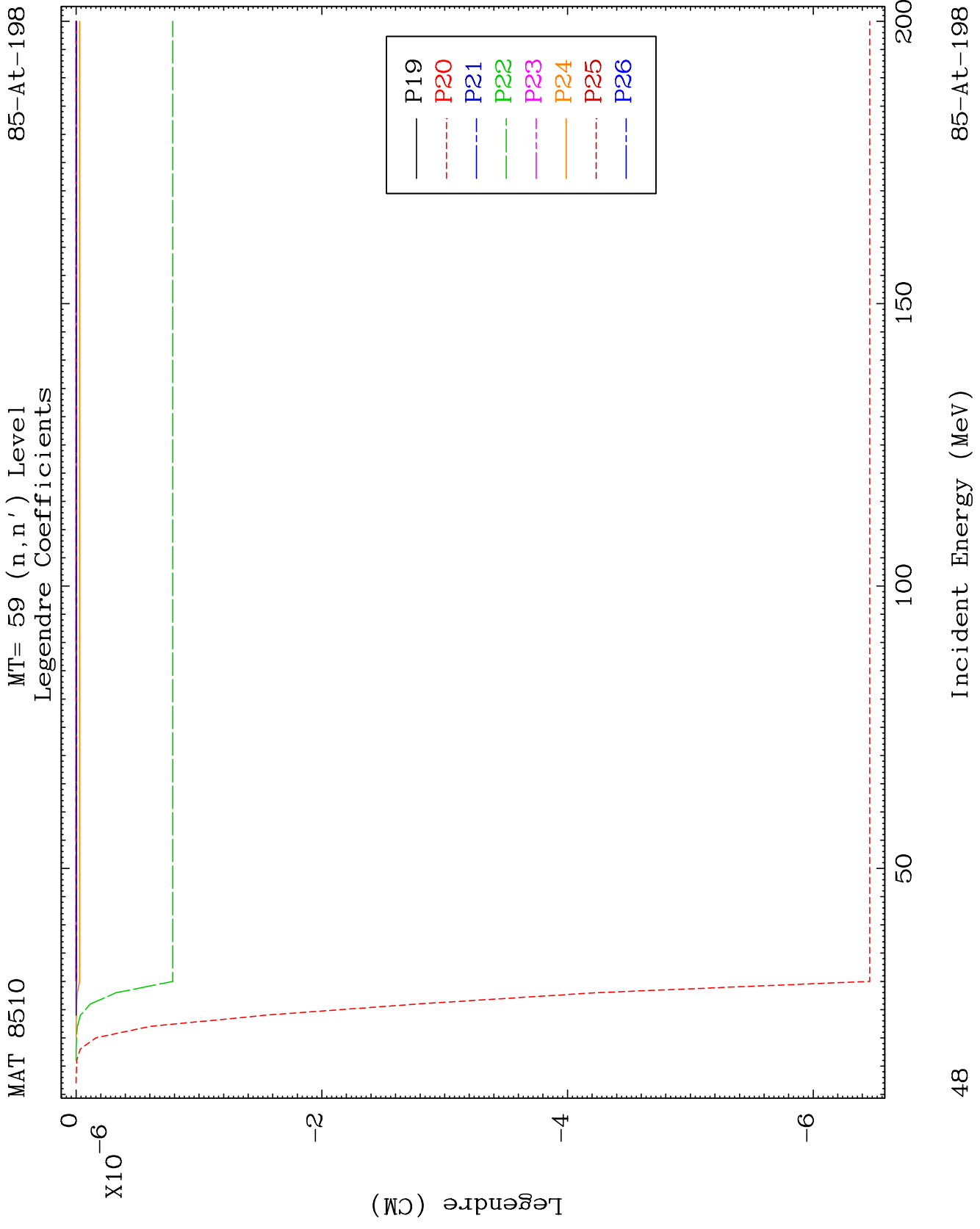
85-At-198



47

Incident Energy (MeV)

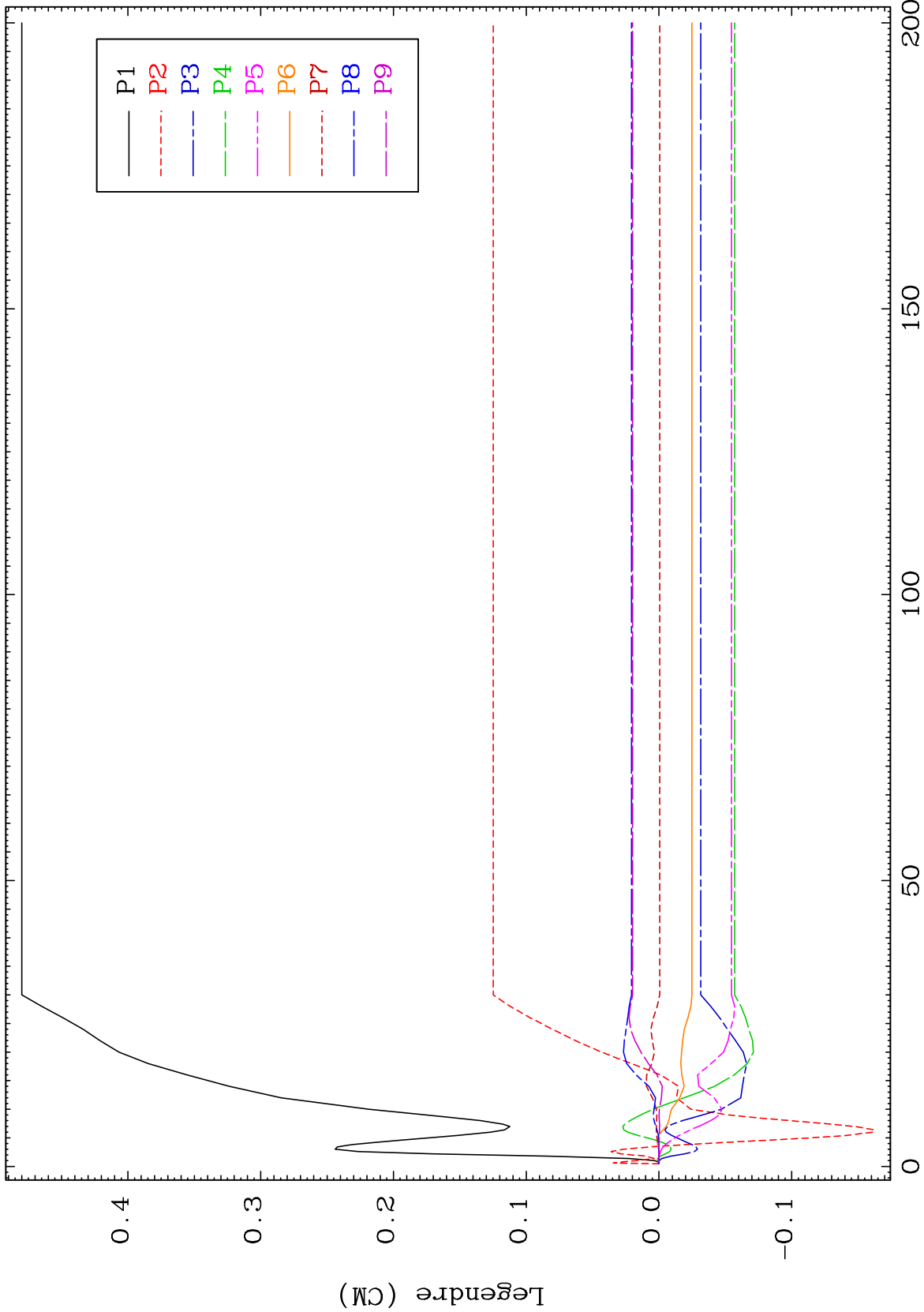
85-At-198



MAT 8510

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

85-At-198



49

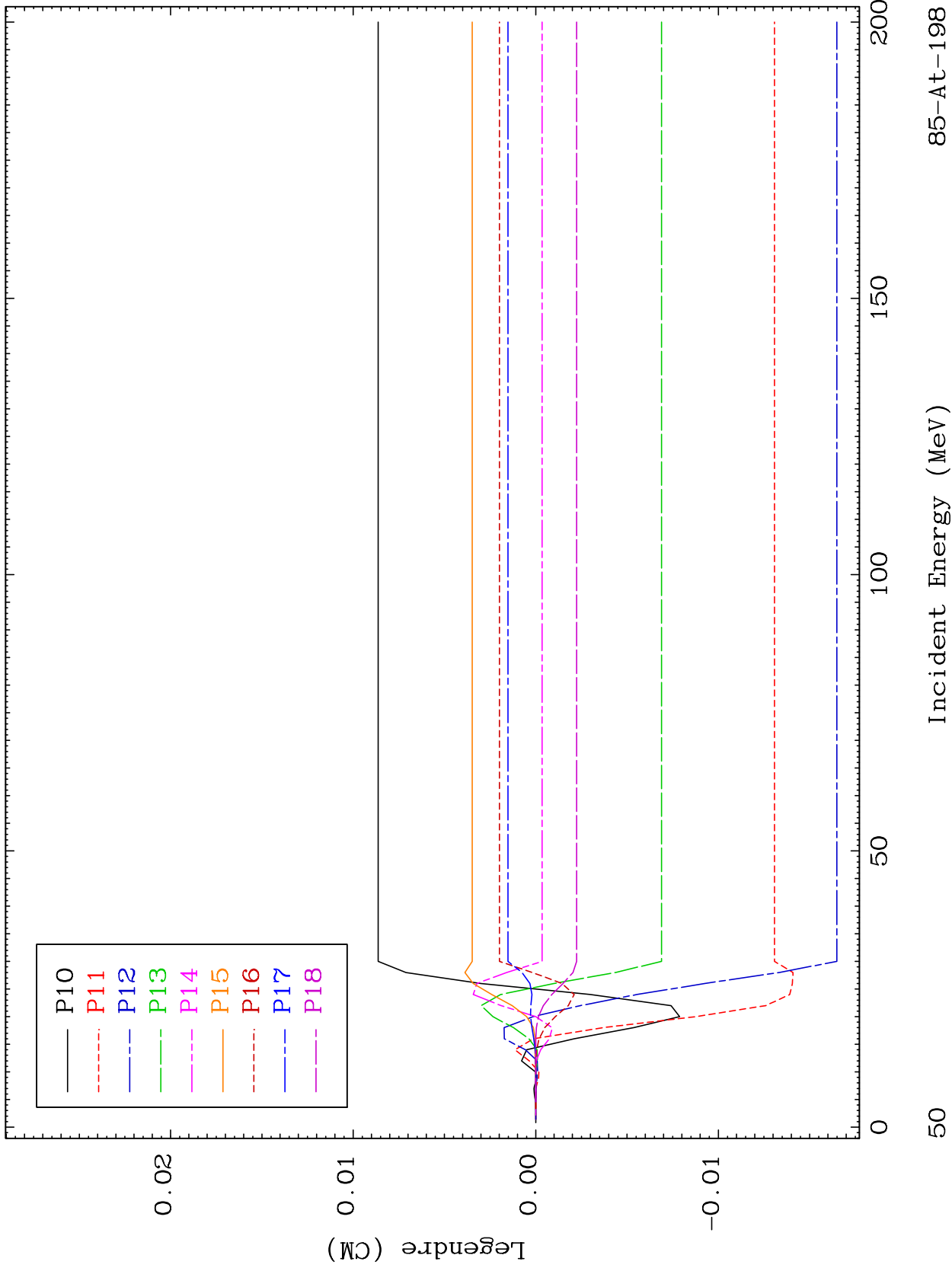
Incident Energy (MeV)

85-At-198

MAT 8510

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

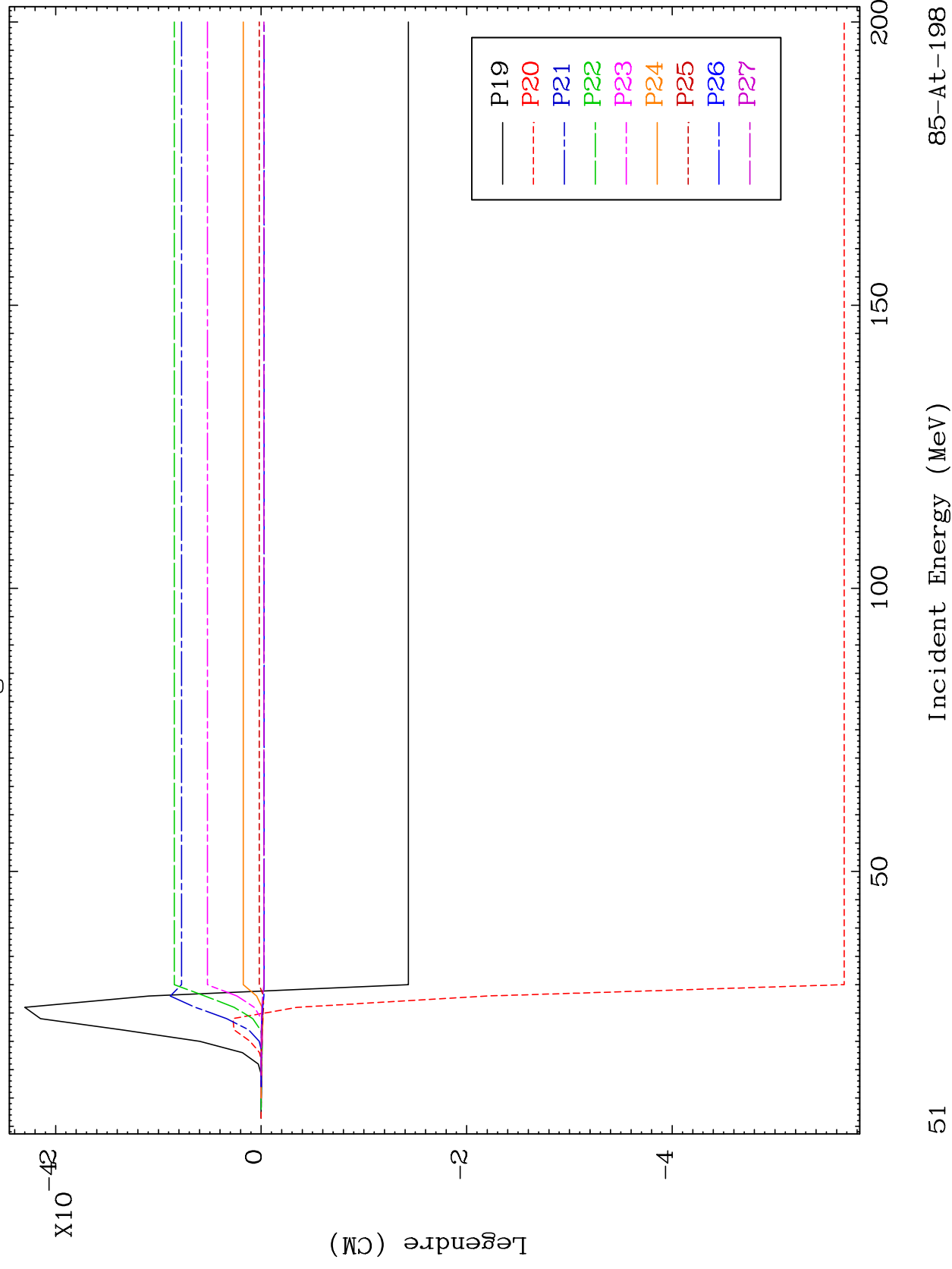
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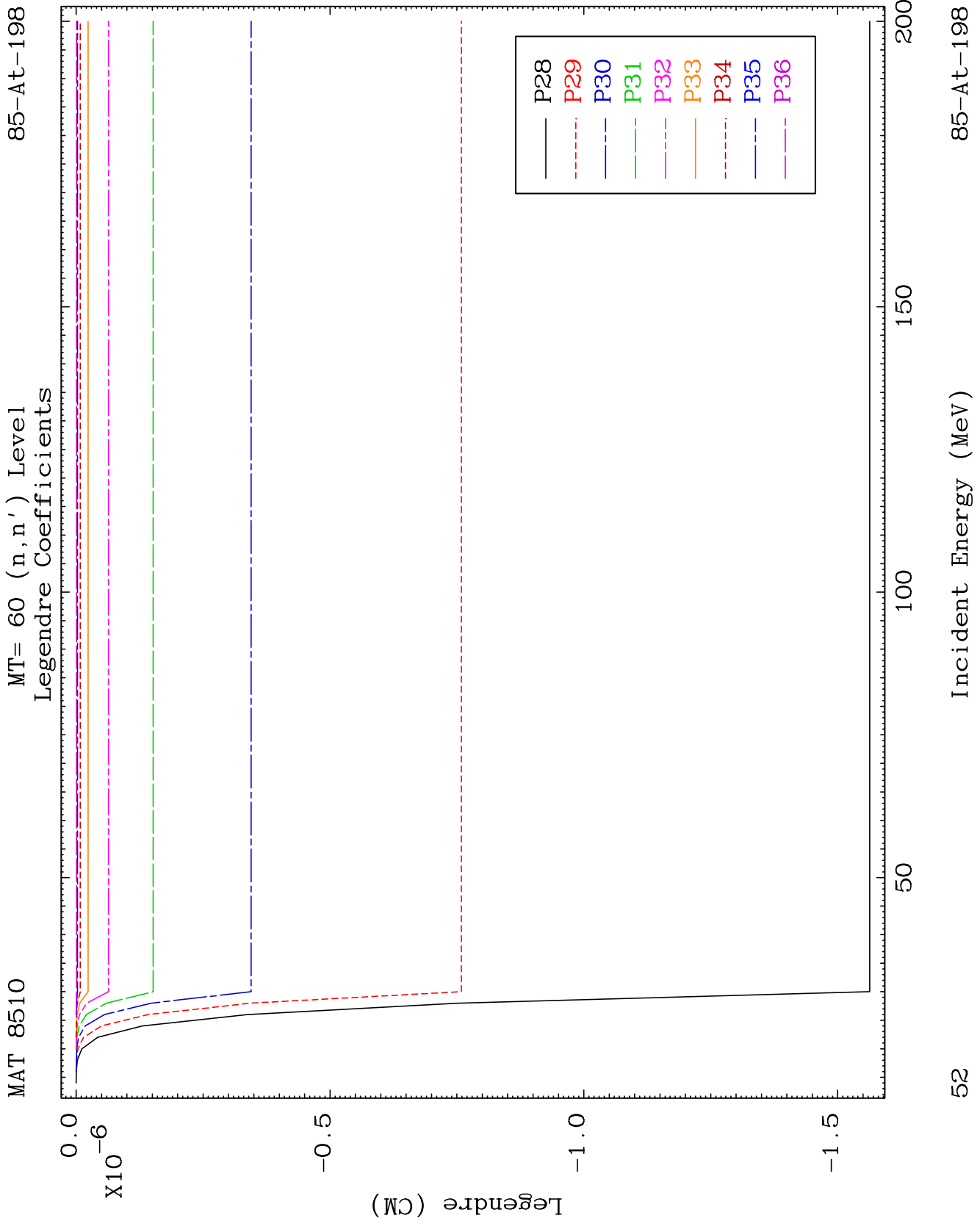


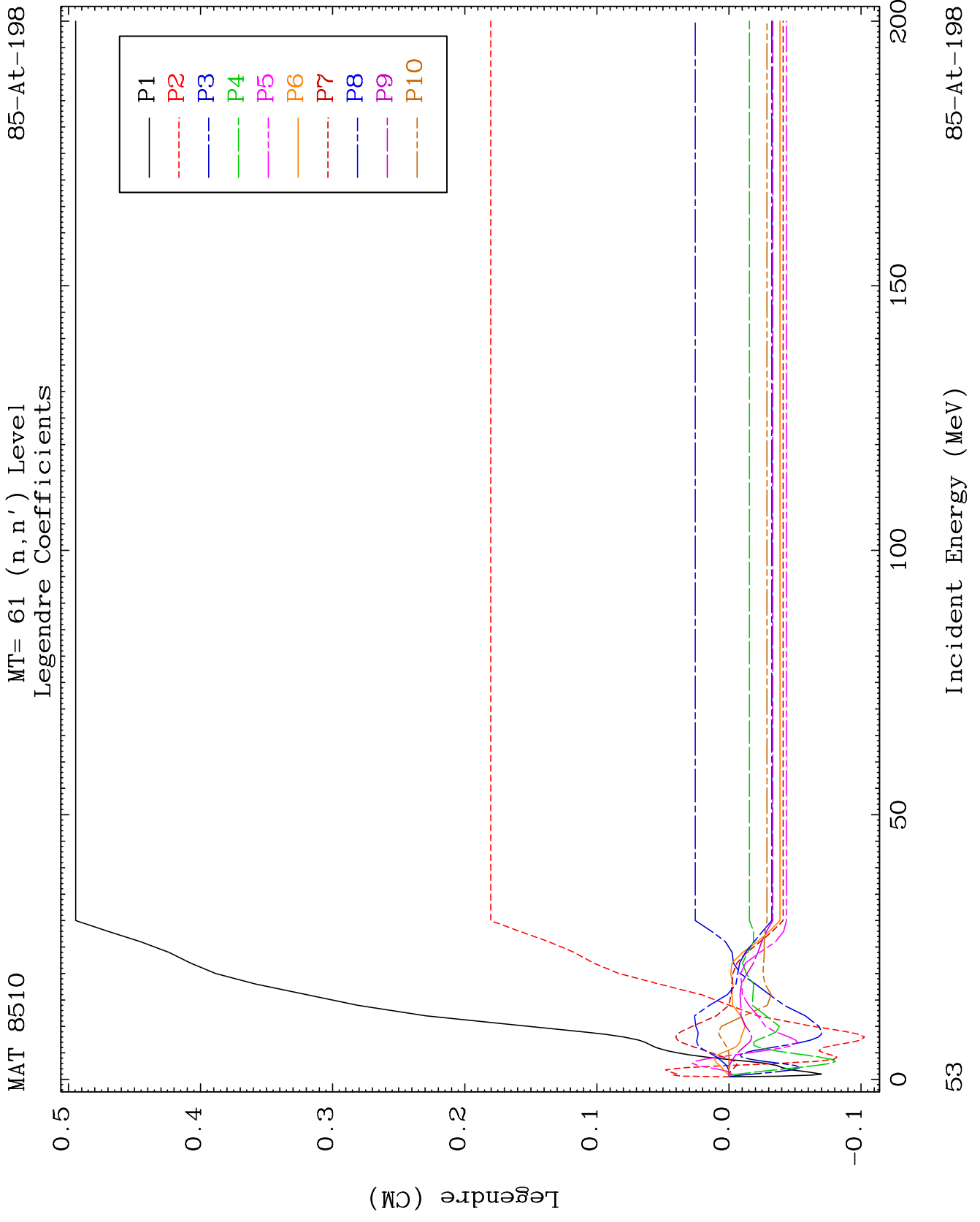
85-At-198

Incident Energy (MeV)

50



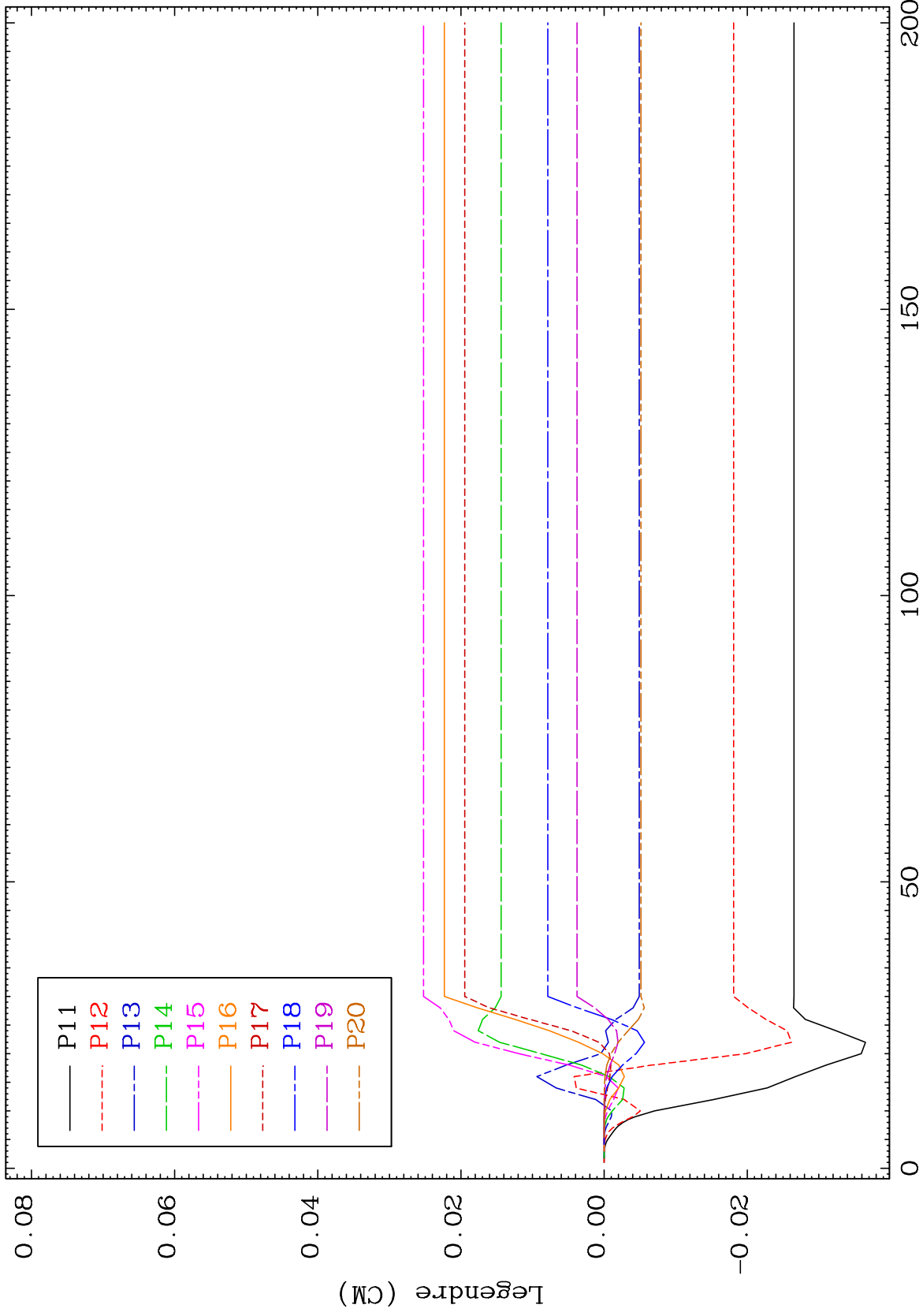




MAT 8510

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

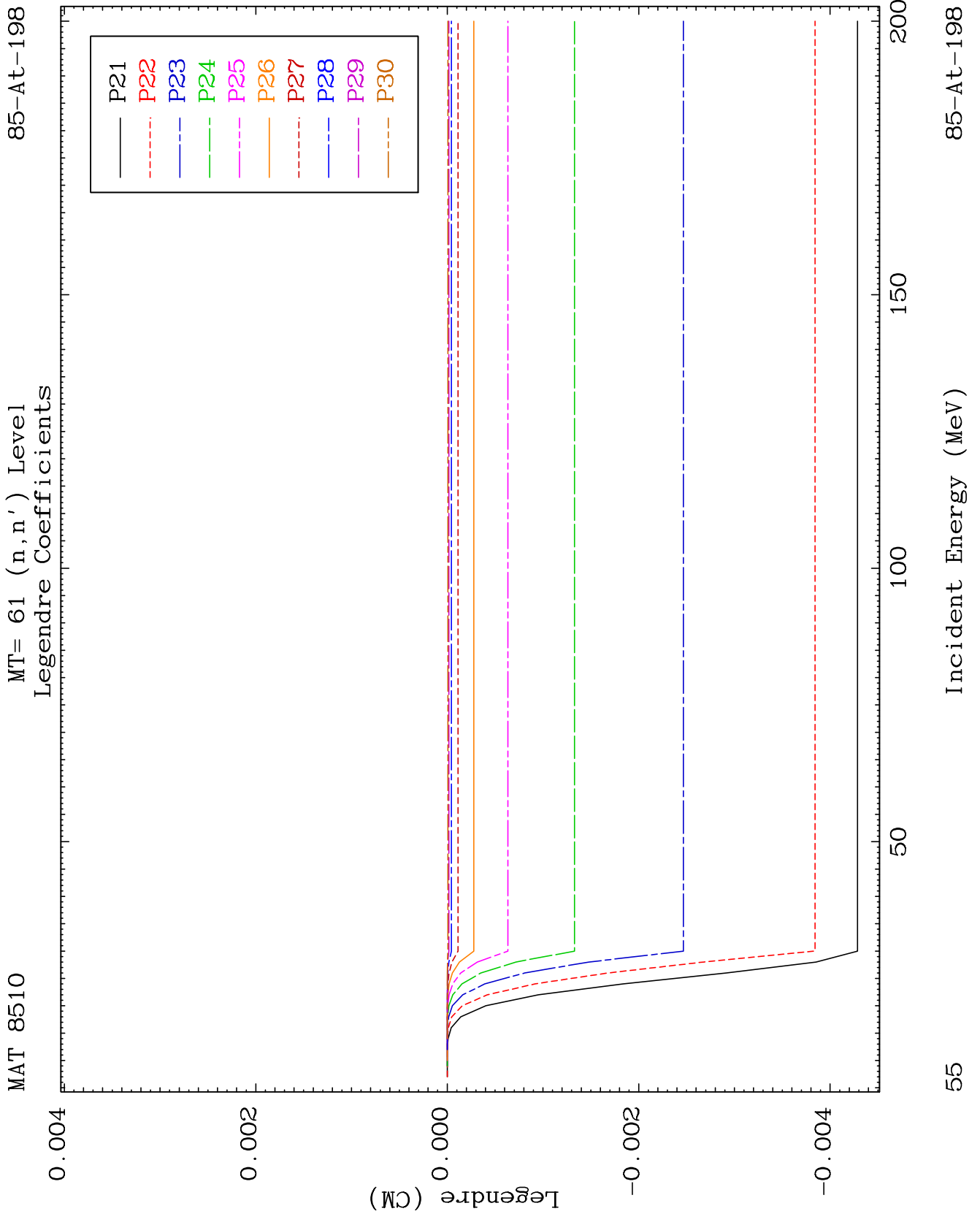
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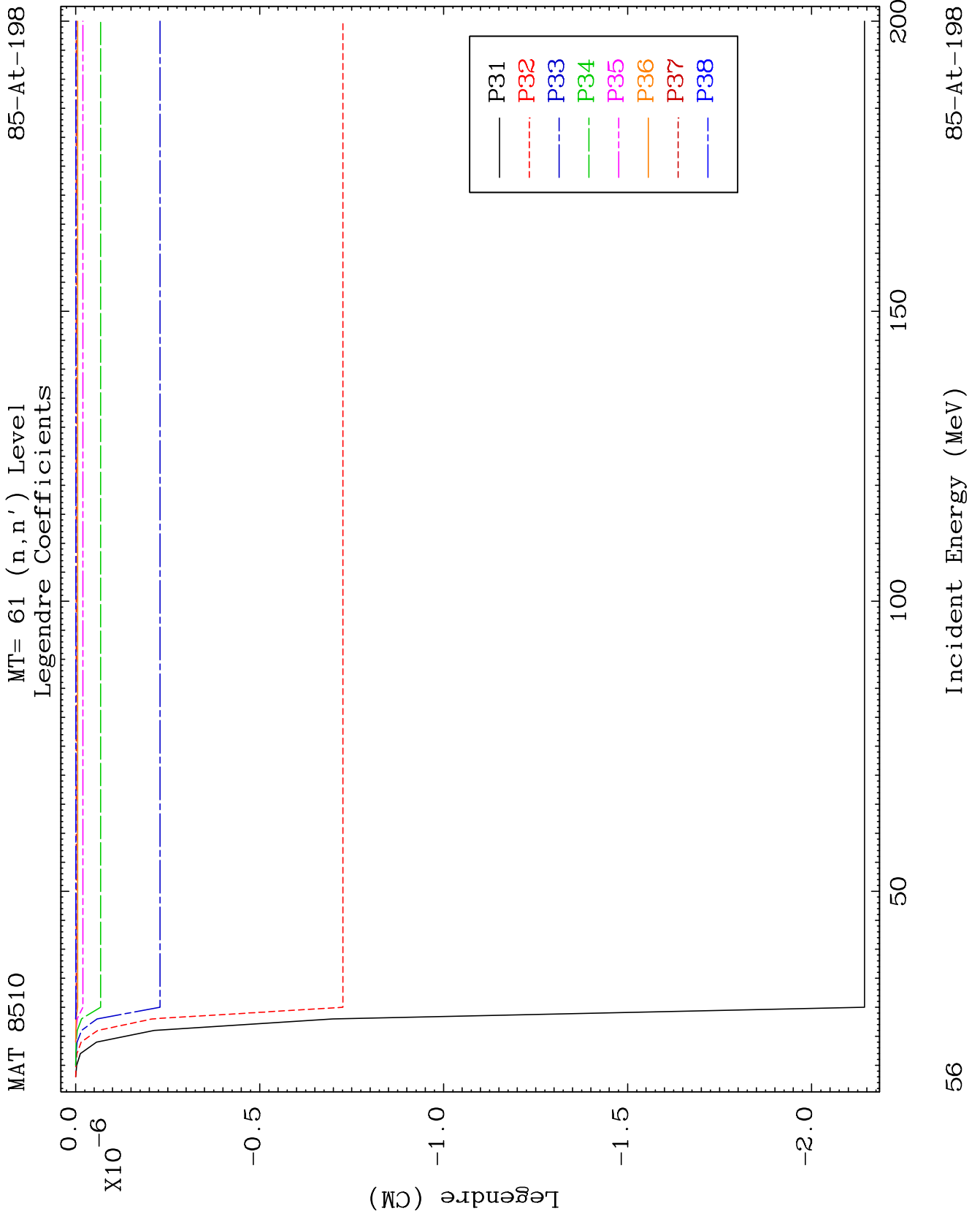


54

Incident Energy (MeV)

85-At-198

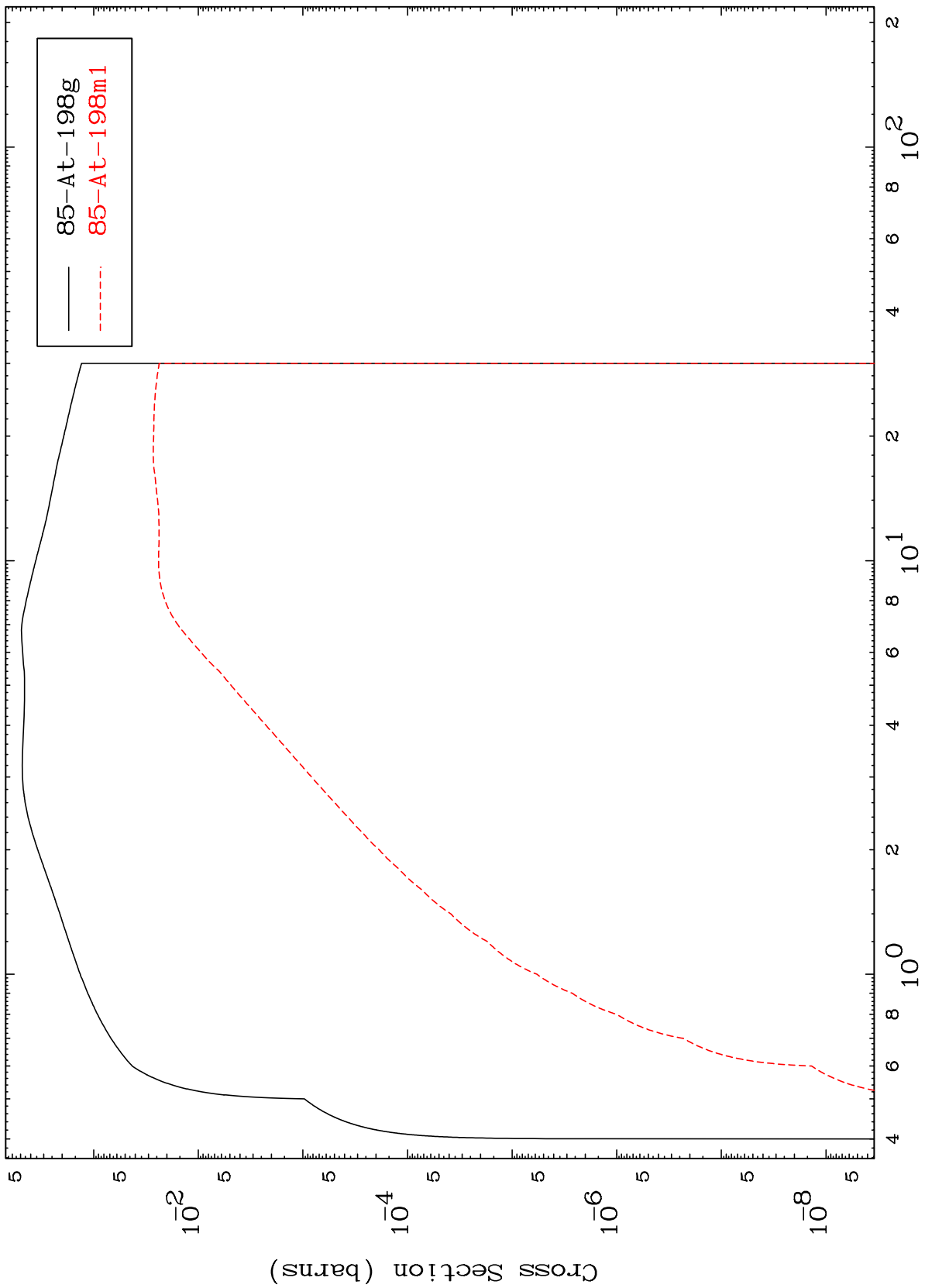




MAT 8510

85-At-198

Inelastic
Radionuclide Production Cross Section

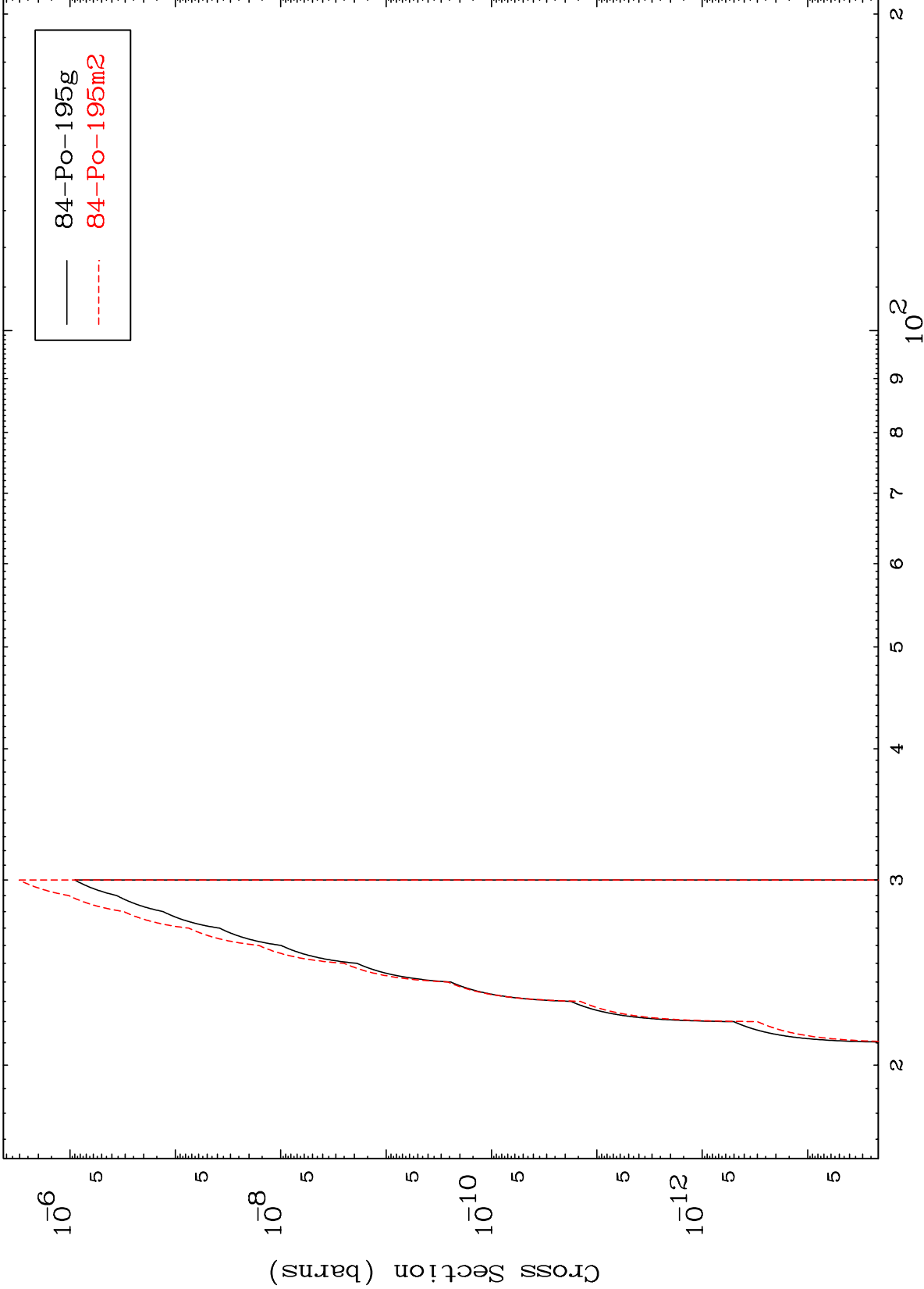


57

Incident Energy (MeV)

85-At-198

Radionuclide Production Cross Section

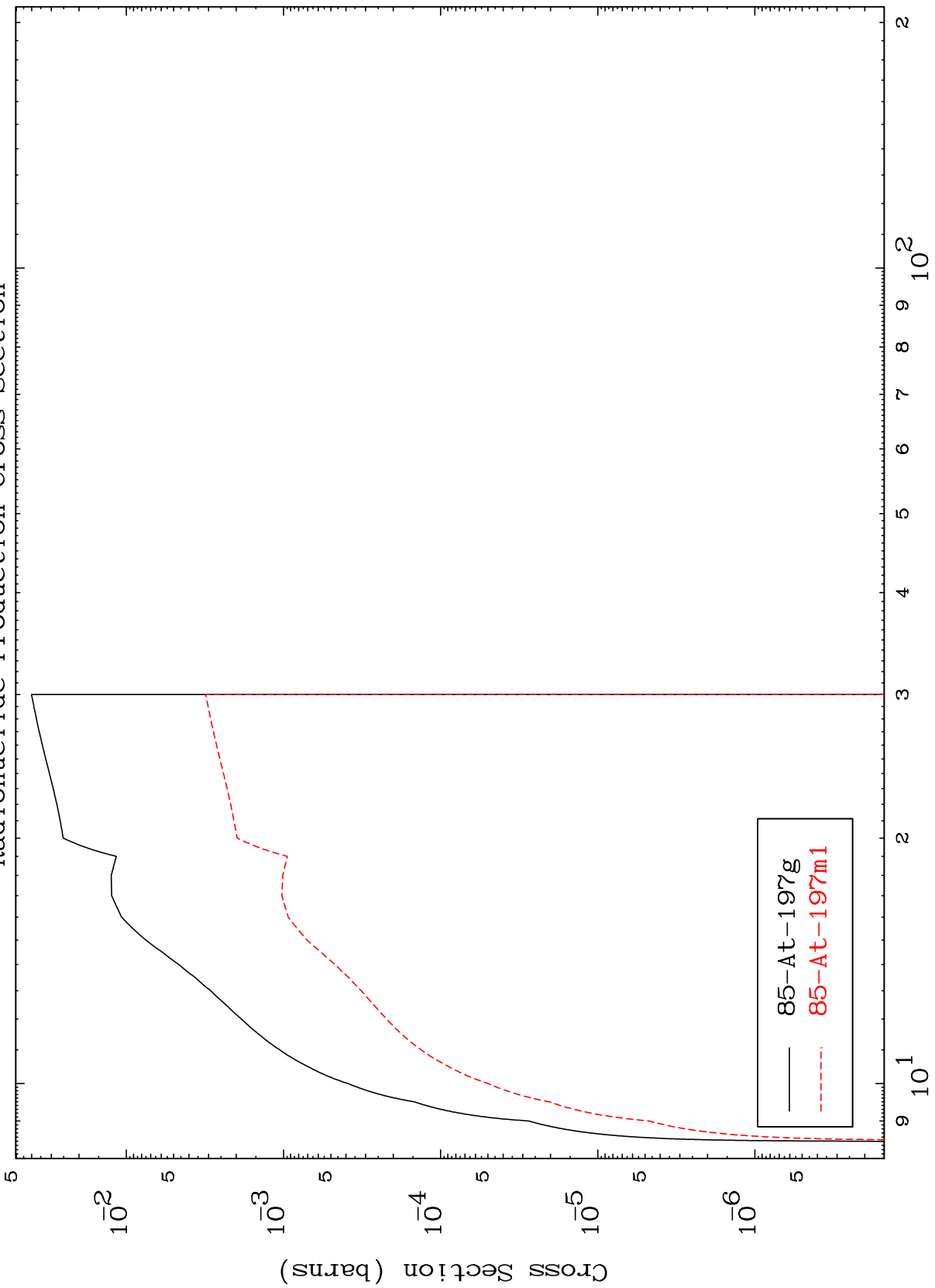


84-Po-195g
84-Po-195m2

MAT 8510

85-At-198

Radionuclide Production Cross Section
(n,2n)



59

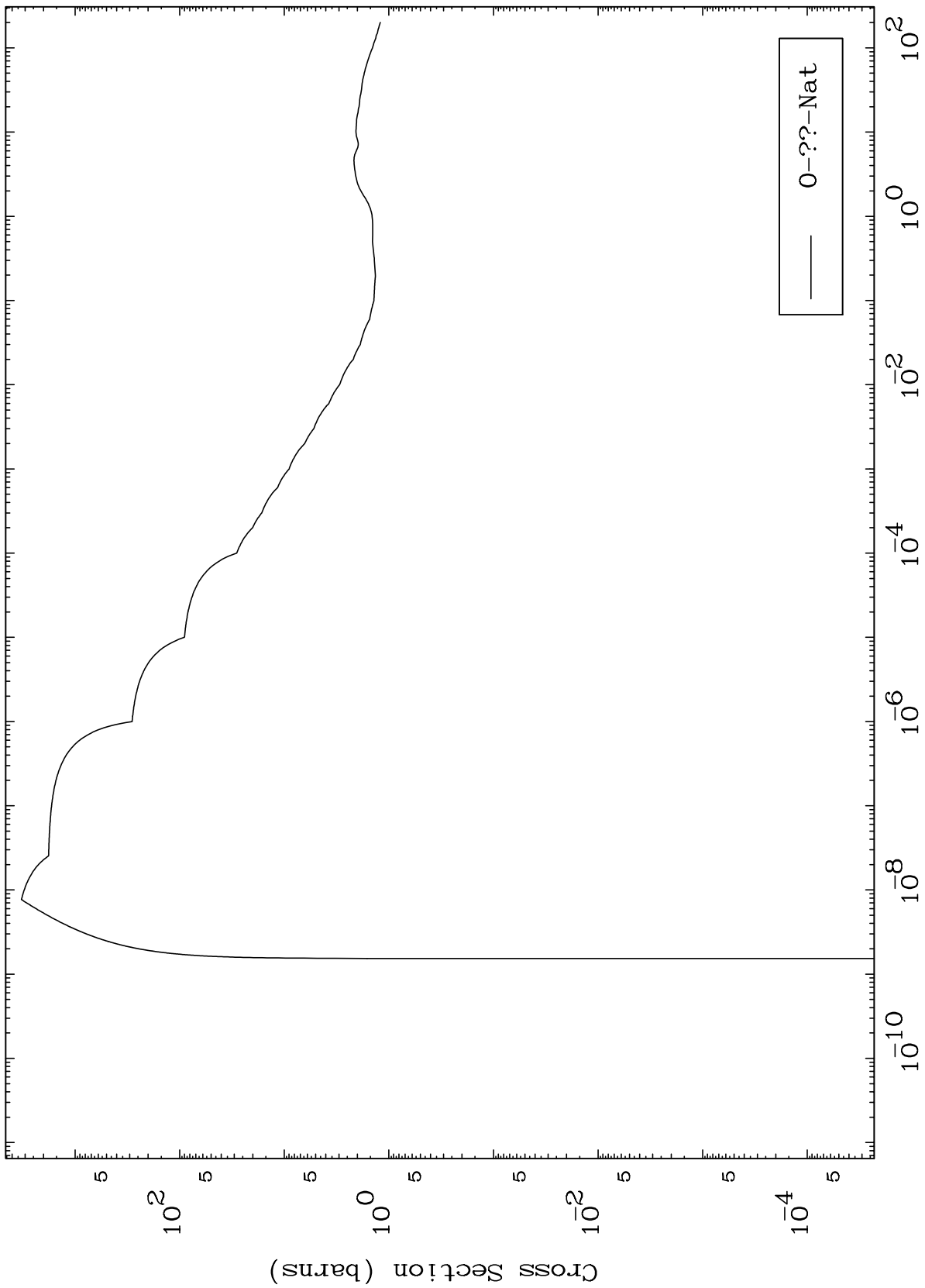
Incident Energy (MeV)

85-At-198

MAT 8510

85-At-198

Fission
Radionuclide Production Cross Section



60

85-At-198

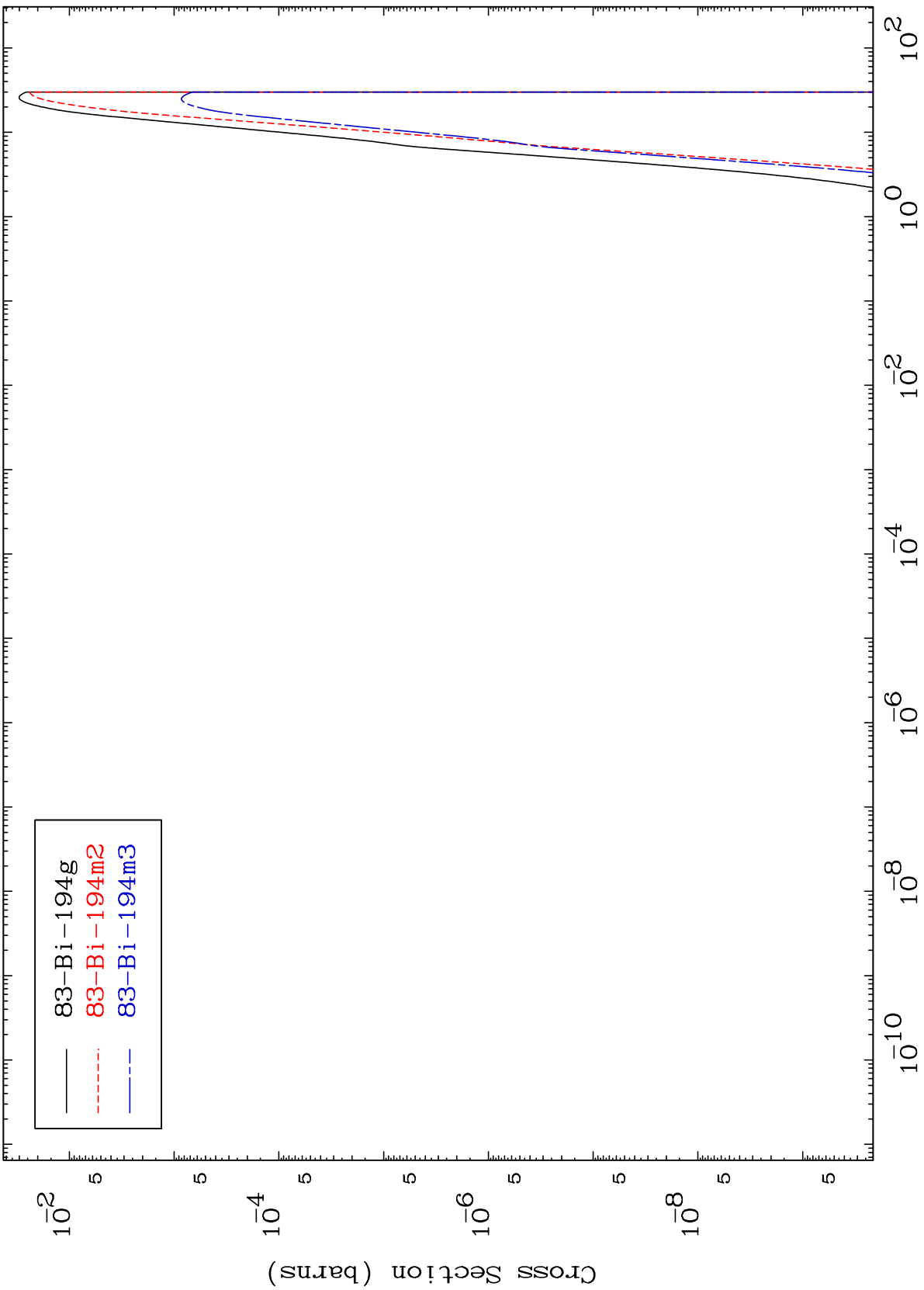
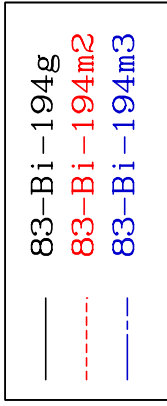
Incident Energy (MeV)

MAT 8510

$(n, n') \alpha$

85-At-198

Radionuclide Production Cross Section



61

Incident Energy (MeV)

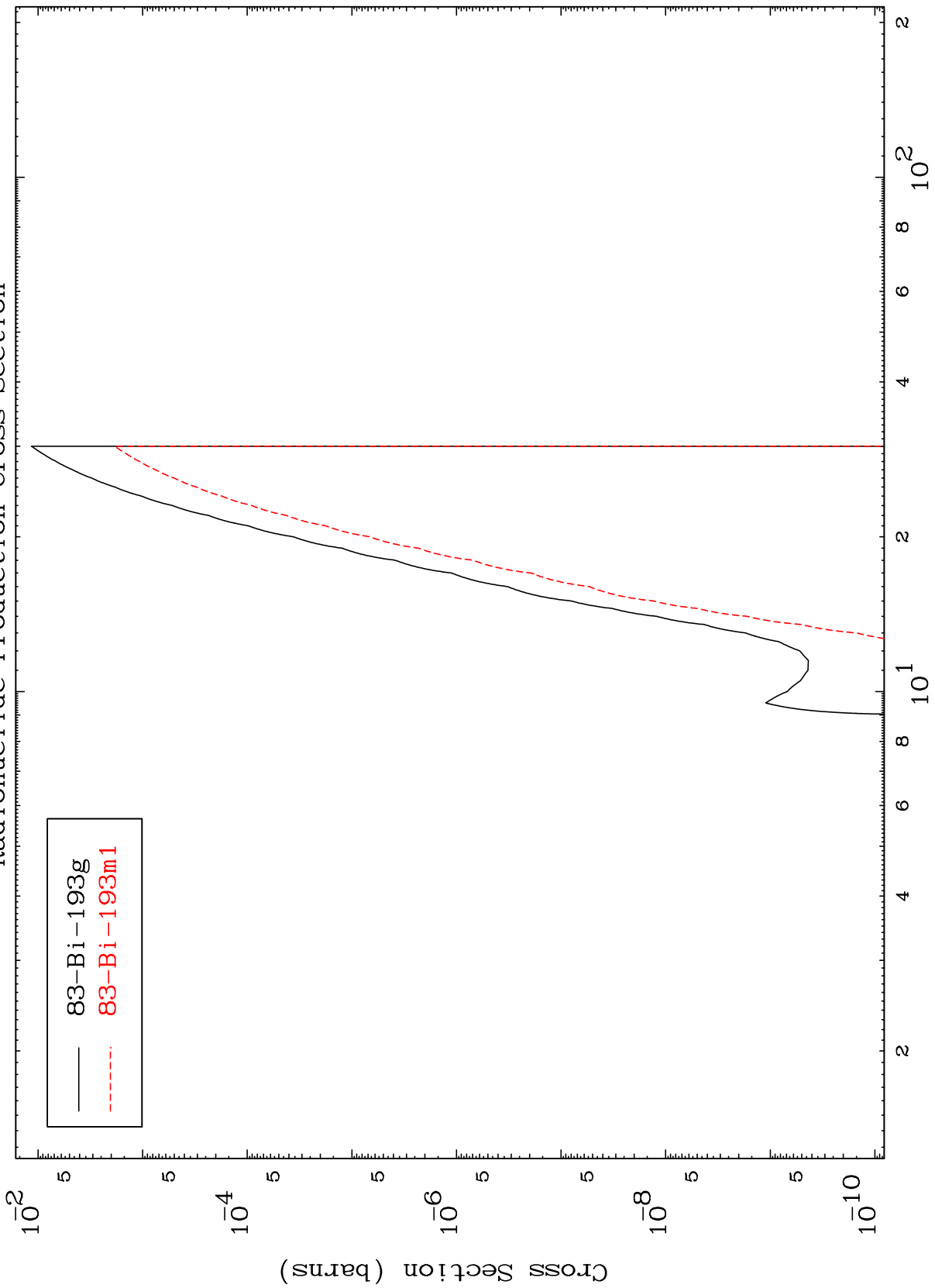
85-At-198

MAT 8510

(n,2n) α

85-At-198

Radionuclide Production Cross Section



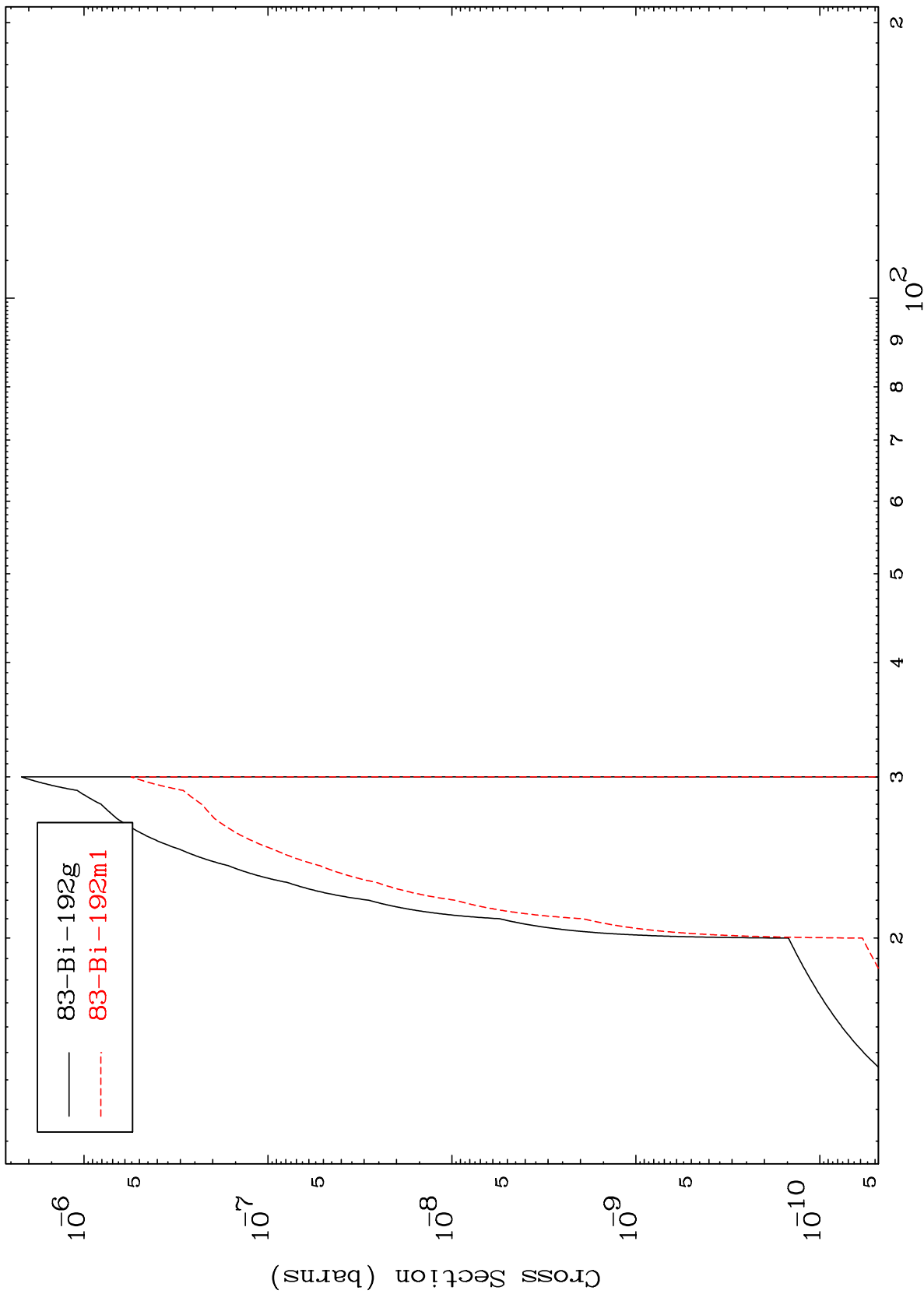
— 83-Bi-193g
- - - 83-Bi-193m1

MAT 8510

(n,3n) α

85-At-198

Radionuclide Production Cross Section



63

Incident Energy (MeV)

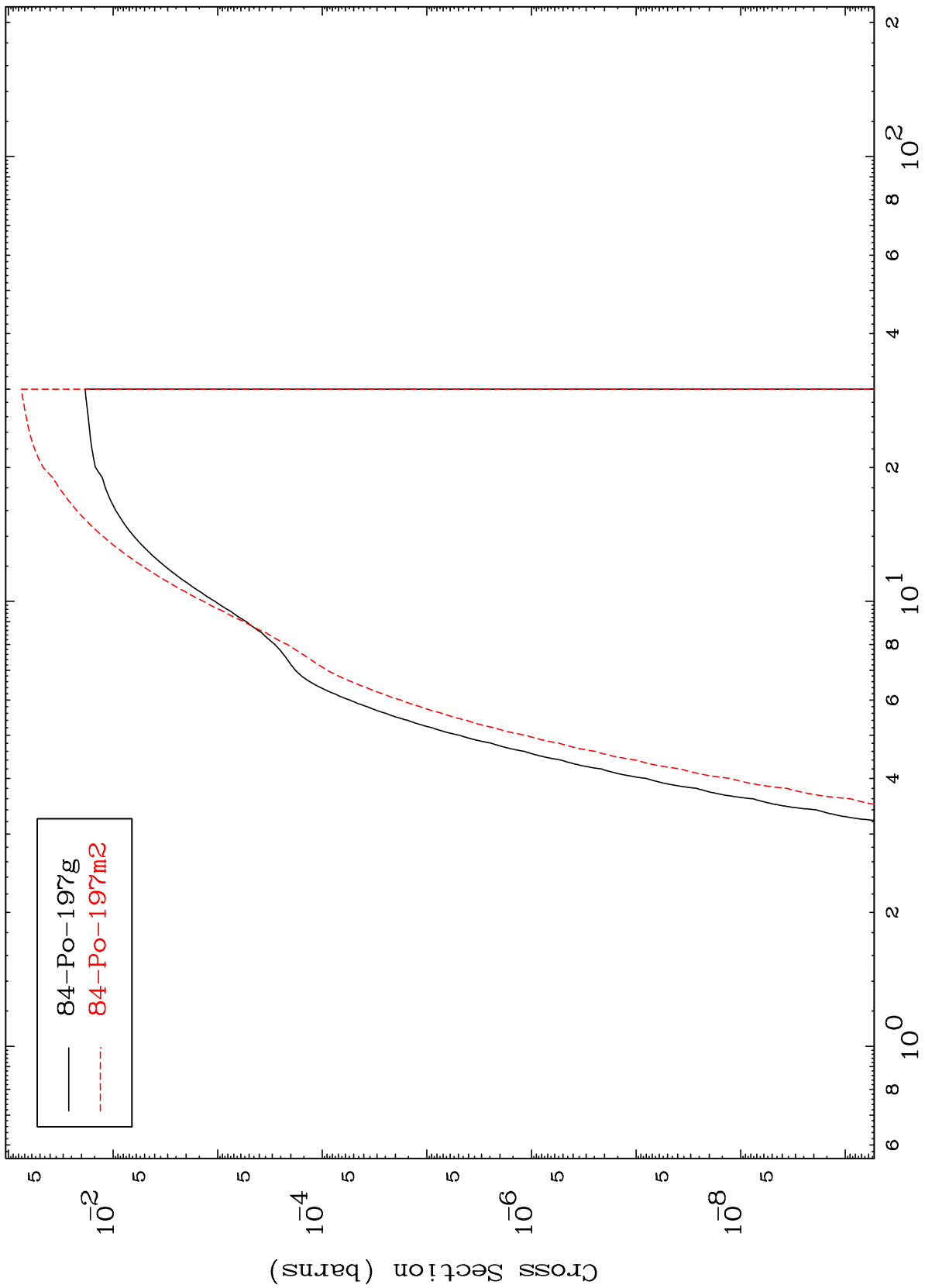
85-At-198

MAT 8510

(n,n') p

85-At-198

Radionuclide Production Cross Section



64

Incident Energy (MeV)

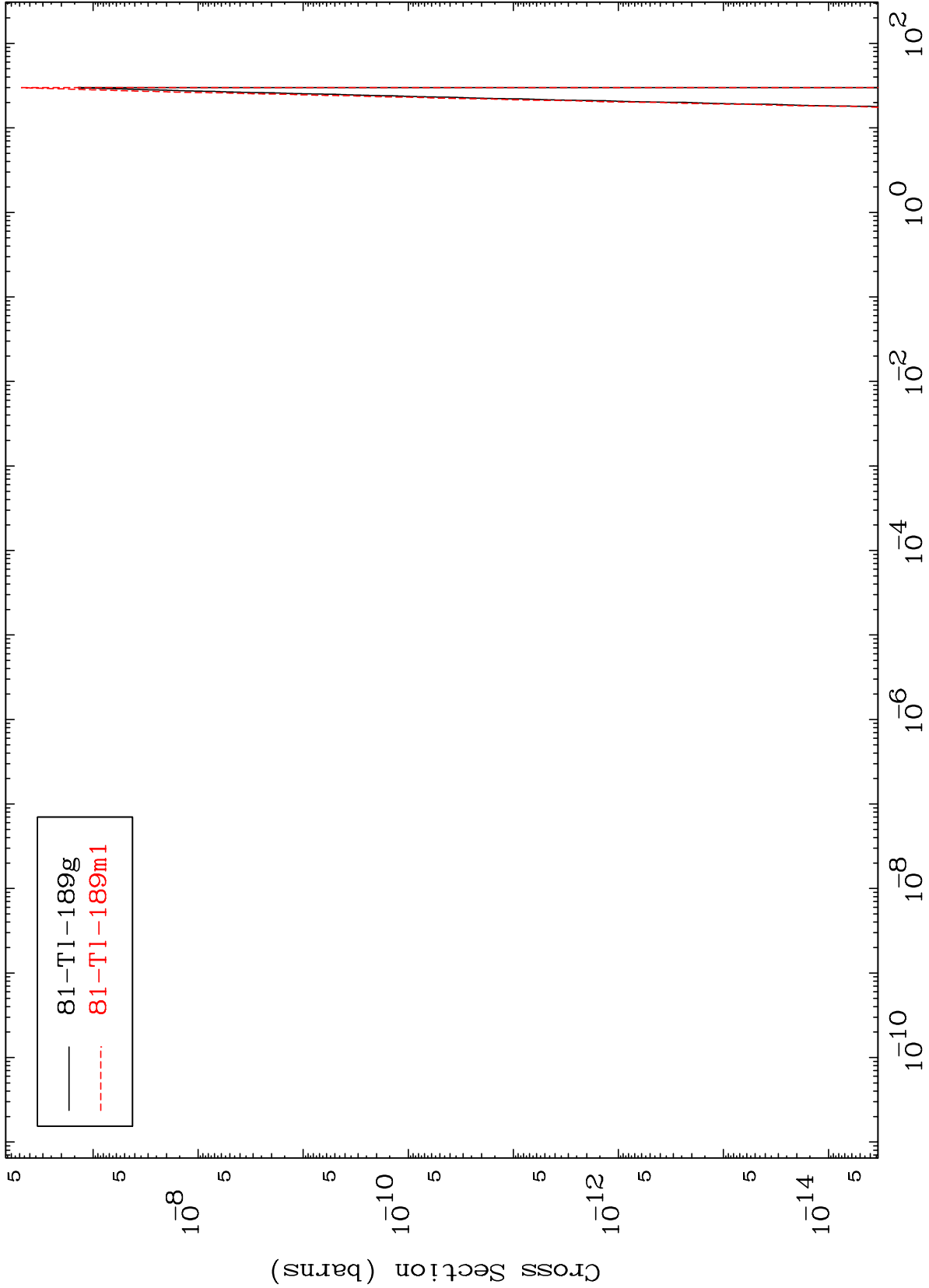
85-At-198

MAT 8510

(n,2n) 2 α

85-At-198

Radionuclide Production Cross Section



81-Tl-189g
81-Tl-189m1

65

Incident Energy (MeV)

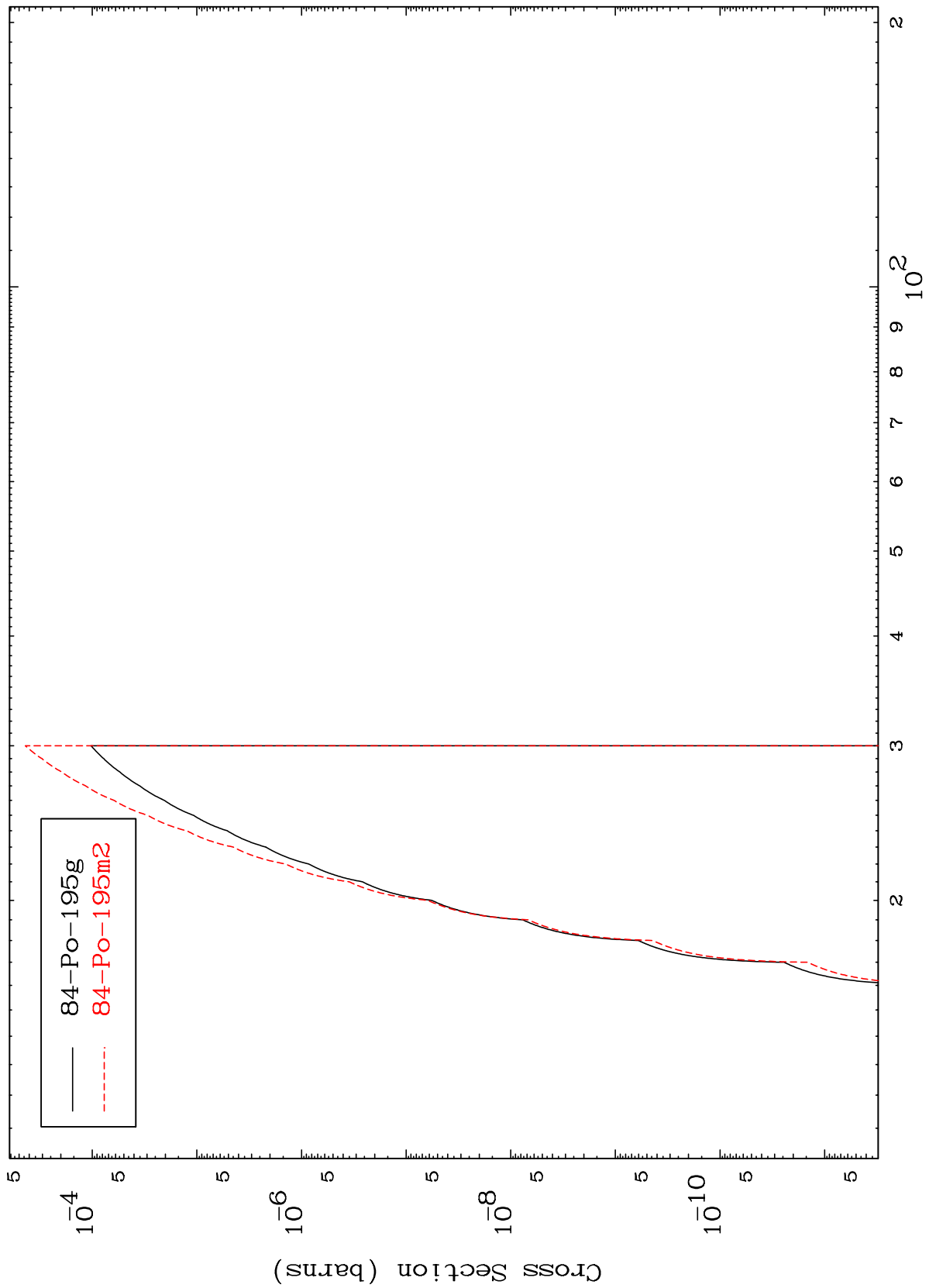
85-At-198

MAT 8510

(n,n') t

85-At-198

Radionuclide Production Cross Section



66

Incident Energy (MeV)

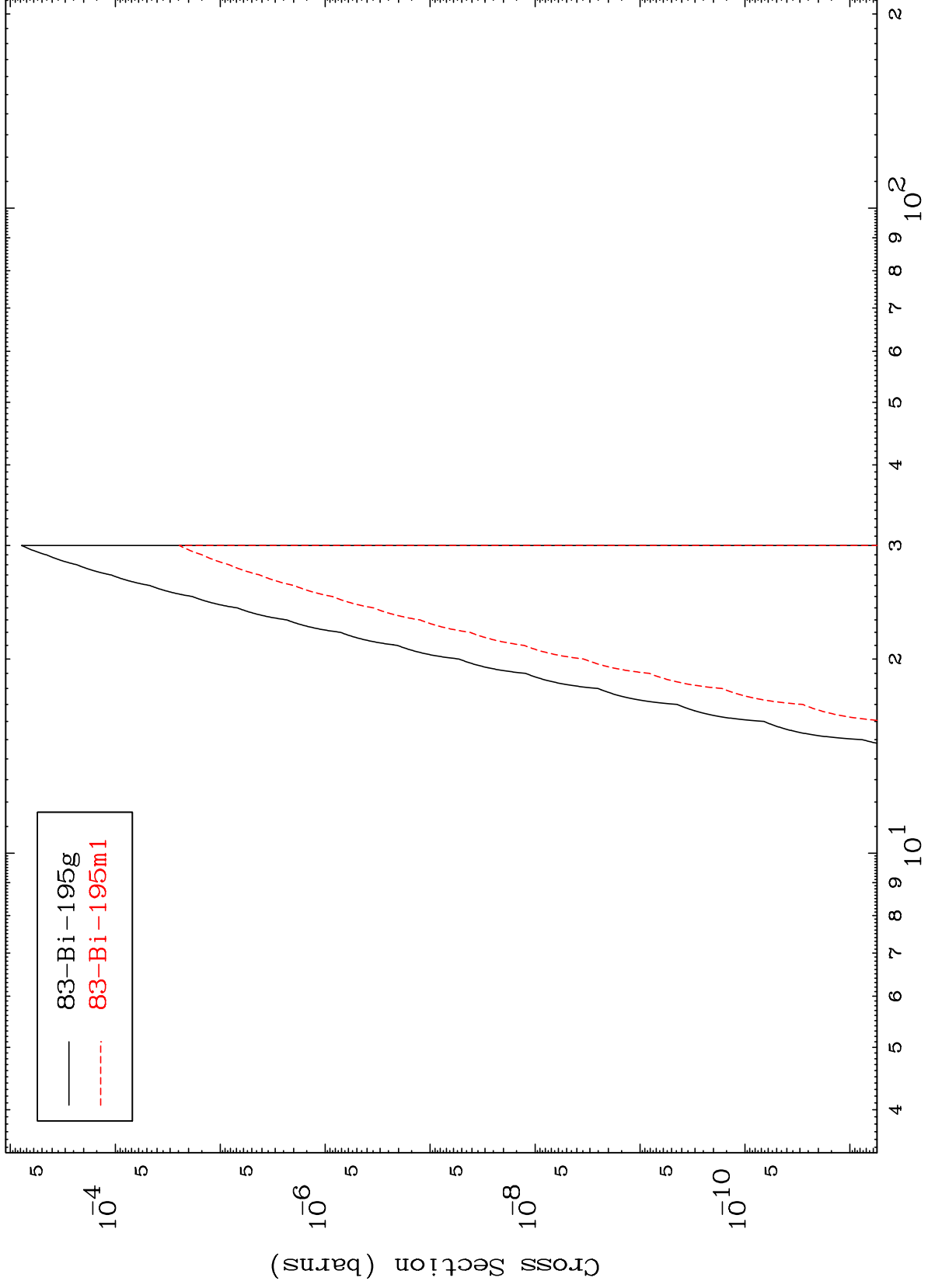
85-At-198

MAT 8510

(n,n') He-3

85-At-198

Radionuclide Production Cross Section



67

Incident Energy (MeV)

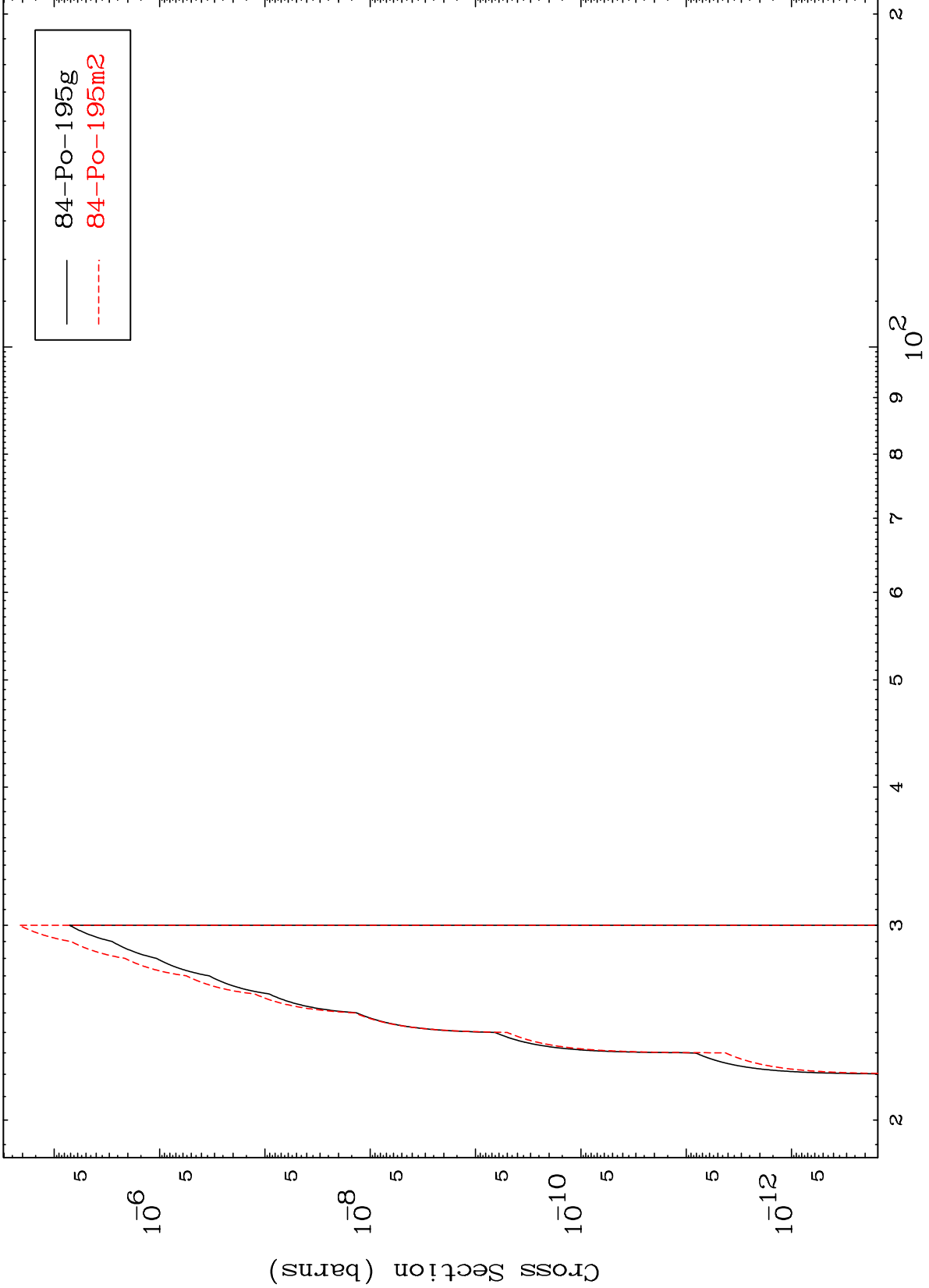
85-At-198

MAT 8510

(n,3n) p

85-At-198

Radionuclide Production Cross Section



68

Incident Energy (MeV)

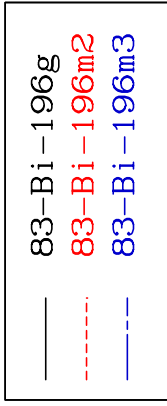
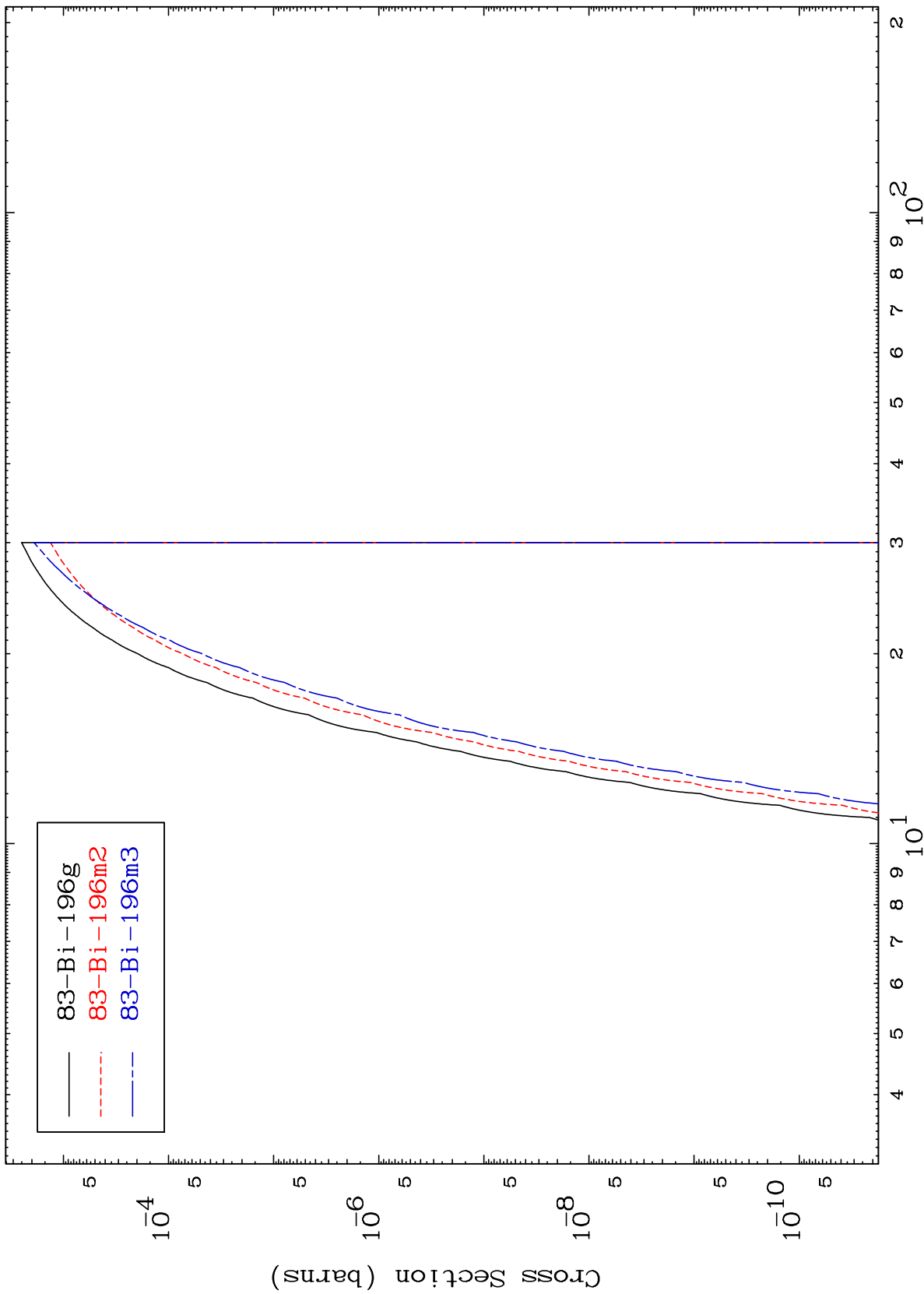
85-At-198

MAT 8510

85-At-198

(n,2n) p

Radionuclide Production Cross Section



69

Incident Energy (MeV)

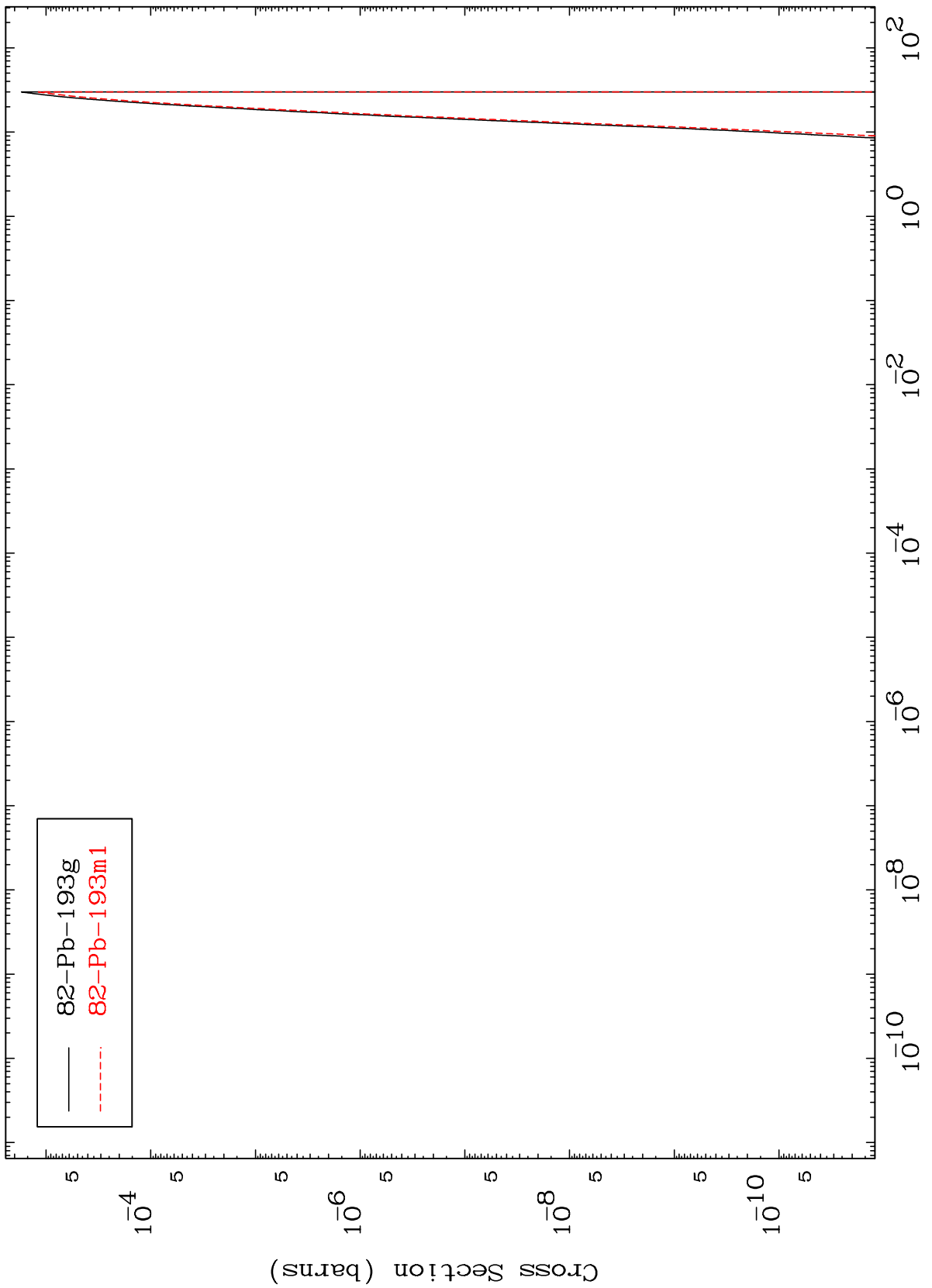
85-At-198

MAT 8510

(n,n') p α

85-At-198

Radionuclide Production Cross Section



82-Pb-193g
82-Pb-193m1

70

Incident Energy (MeV)

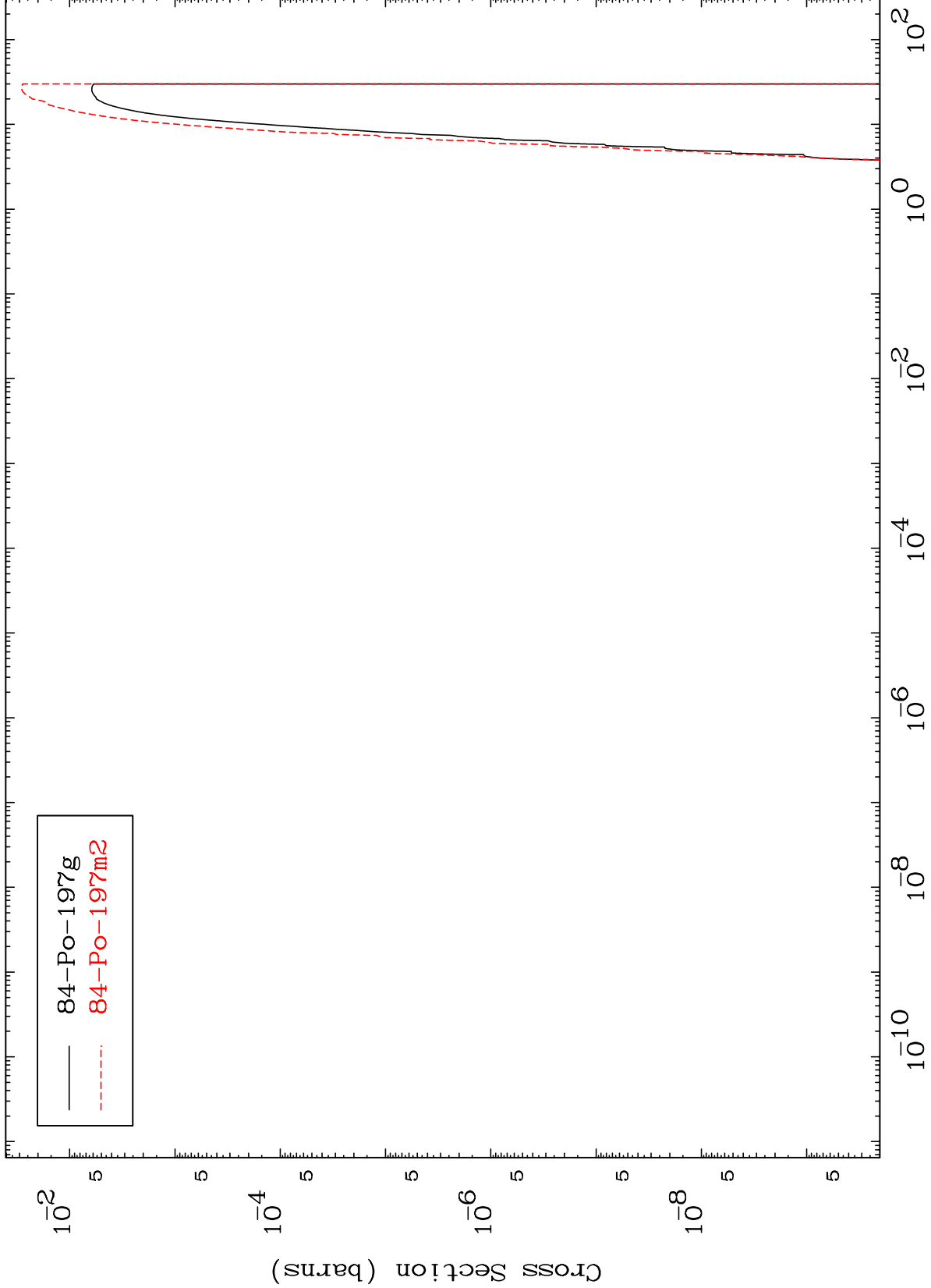
85-At-198

MAT 8510

(n,d)

85-At-198

Radionuclide Production Cross Section

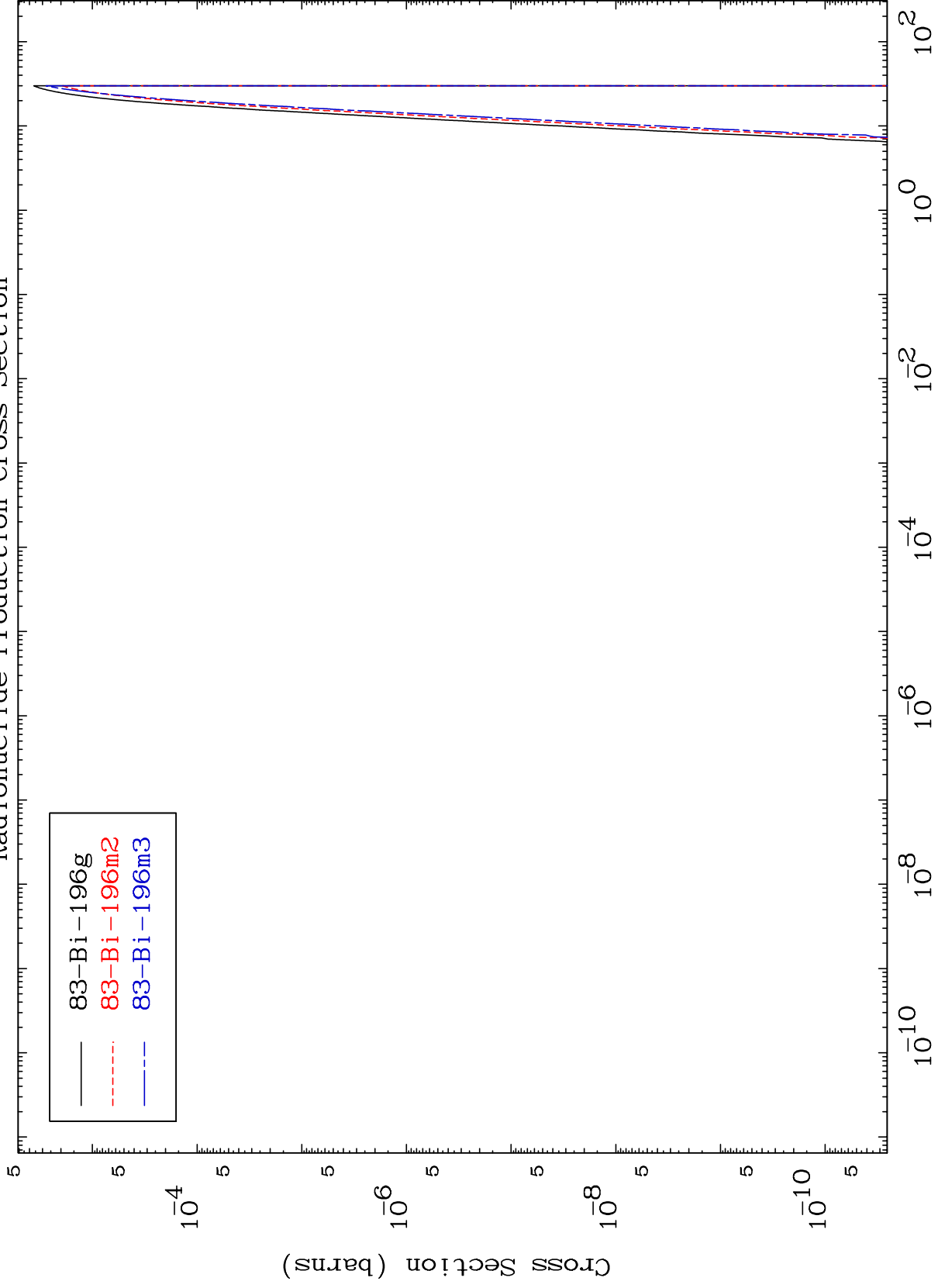


MAT 8510

(n,He-3)

85-At-198

Radionuclide Production Cross Section



72

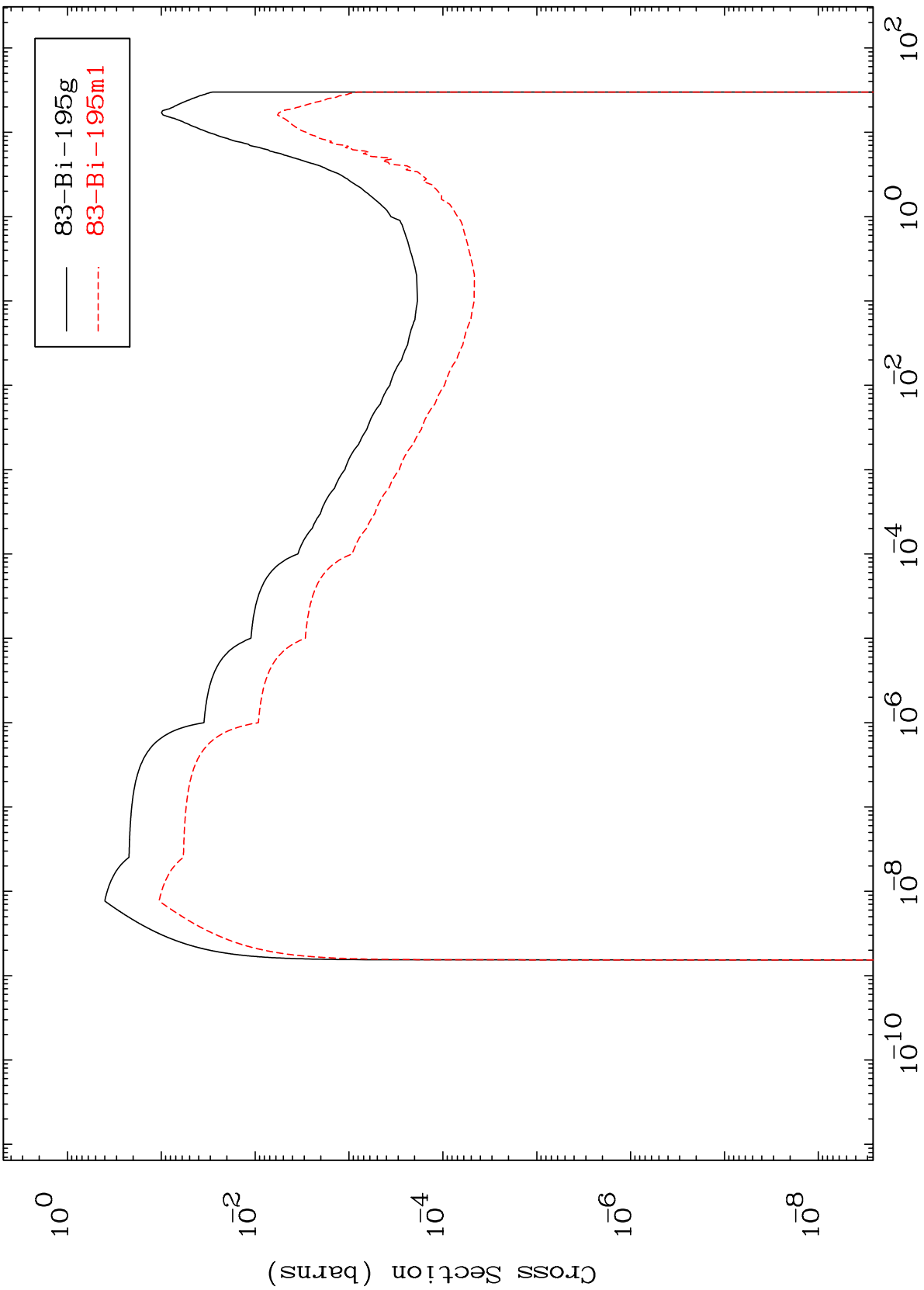
Incident Energy (MeV)

85-At-198

MAT 8510

85-At-198

(n, α)
Radionuclide Production Cross Section



— 83-Bi - 195g
- - - 83-Bi - 195m1

73

85-At-198

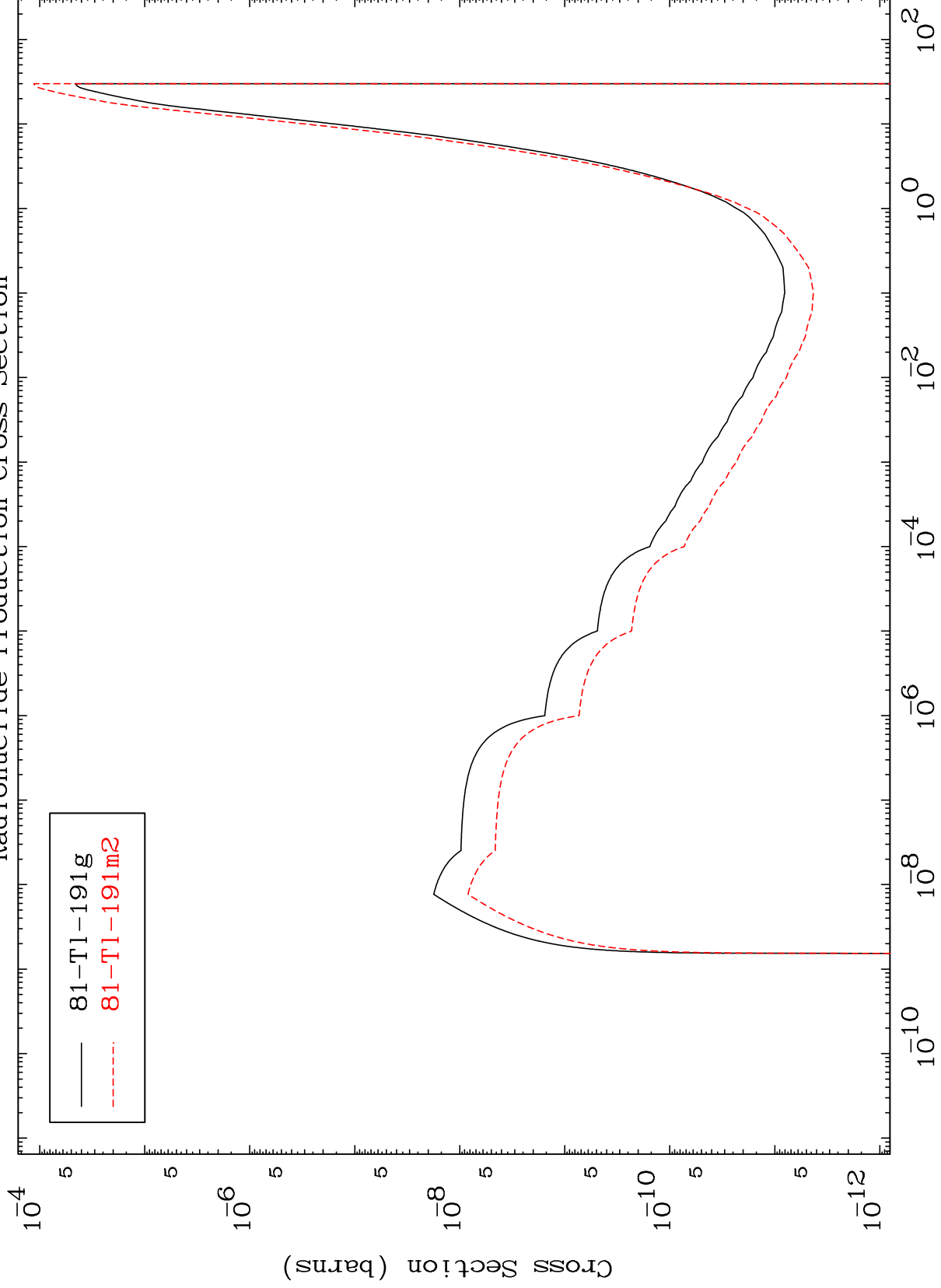
Incident Energy (MeV)

MAT 8510

(n,2α)

85-At-198

Radionuclide Production Cross Section



74

Incident Energy (MeV)

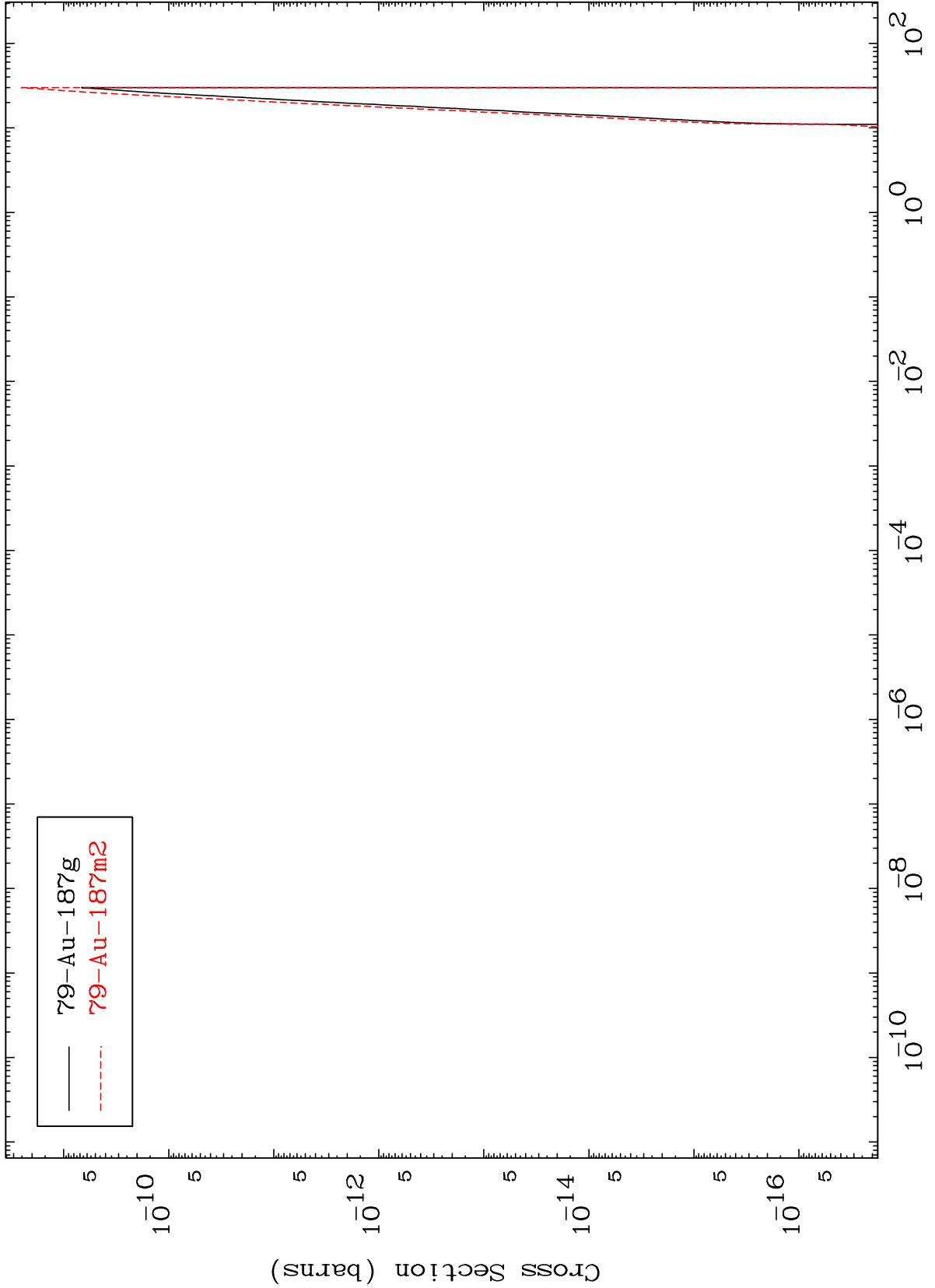
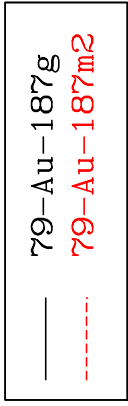
85-At-198

MAT 8510

(n,3α)

85-At-198

Radionuclide Production Cross Section



75

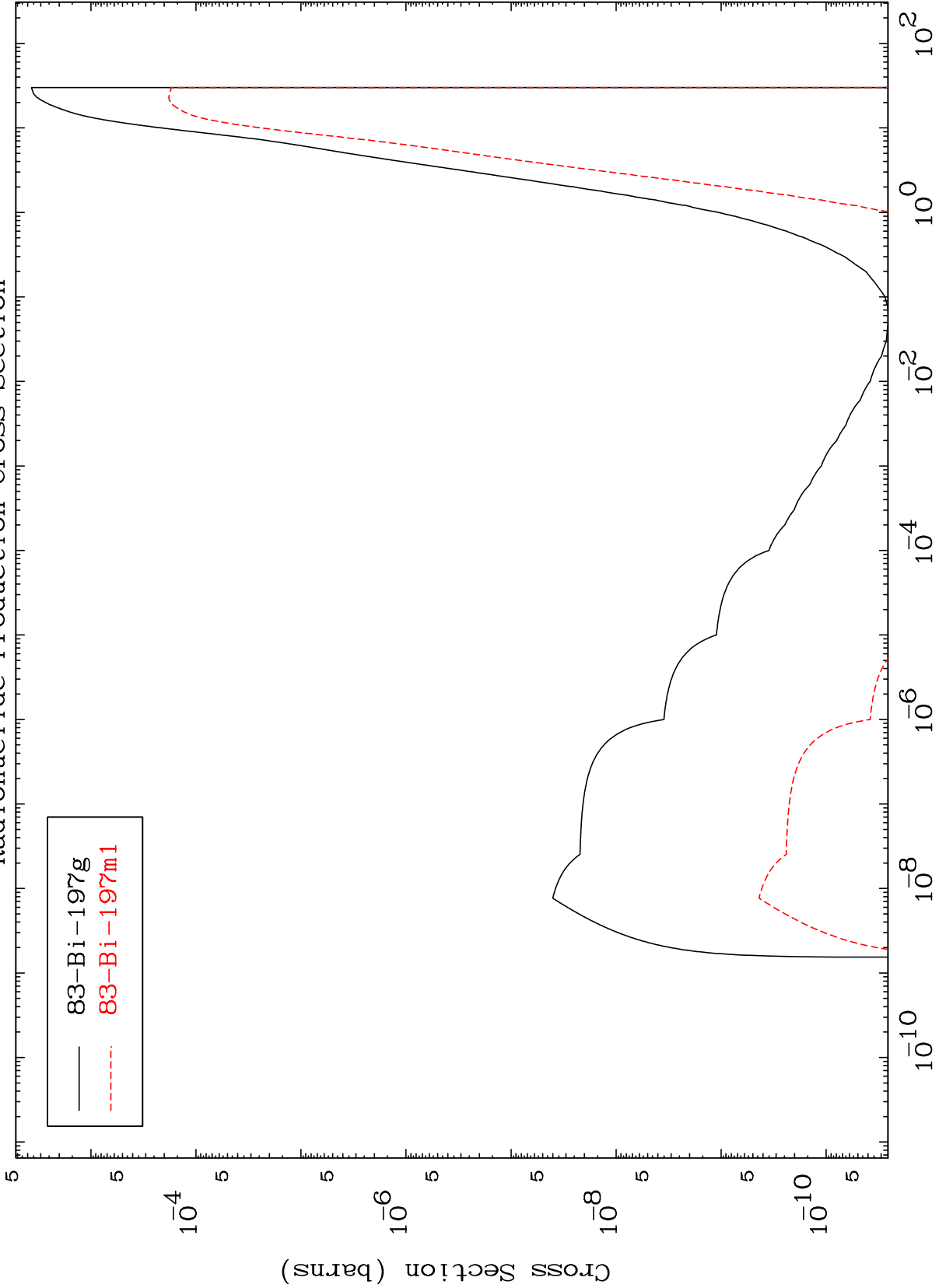
85-At-198

MAT 8510

(n,2p)

85-At-198

Radionuclide Production Cross Section



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

76

Incident Energy (MeV)

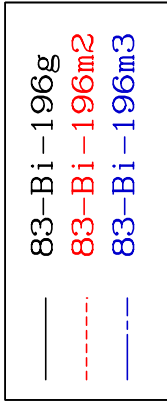
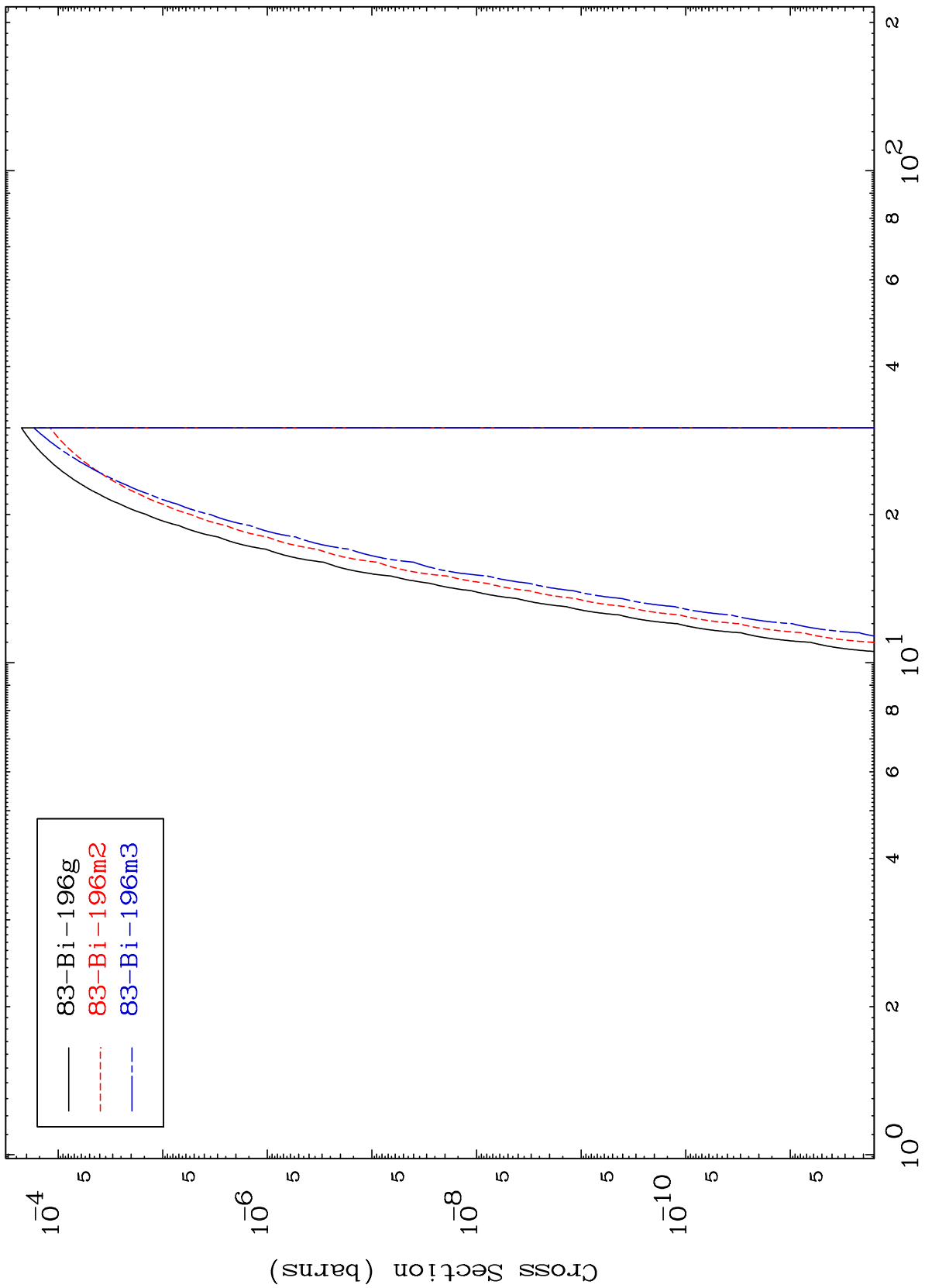
85-At-198

MAT 8510

(n,p) d

85-At-198

Radionuclide Production Cross Section



77

Incident Energy (MeV)

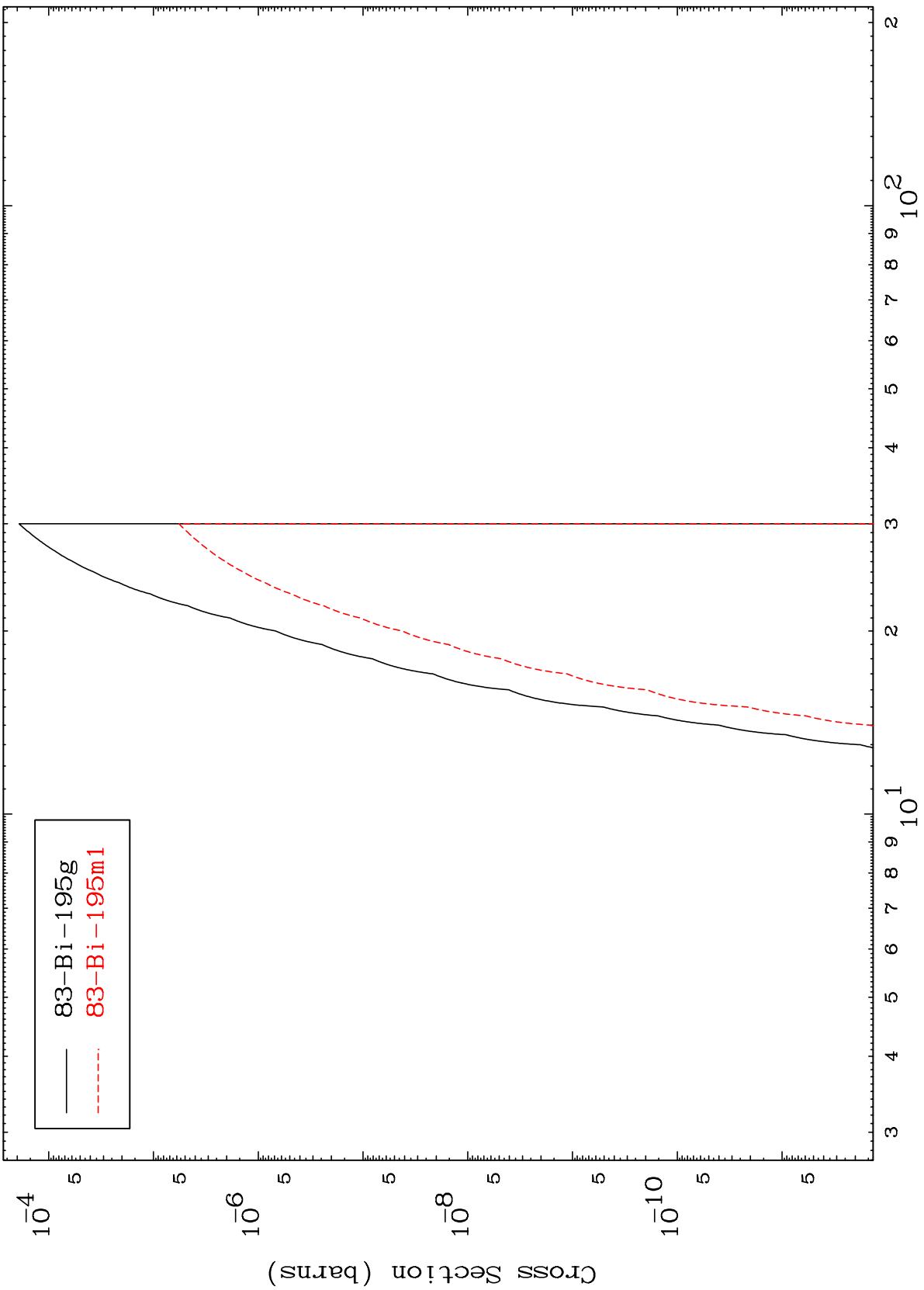
85-At-198

MAT 8510

(n,p) t

85-At-198

Radionuclide Production Cross Section



78

Incident Energy (MeV)

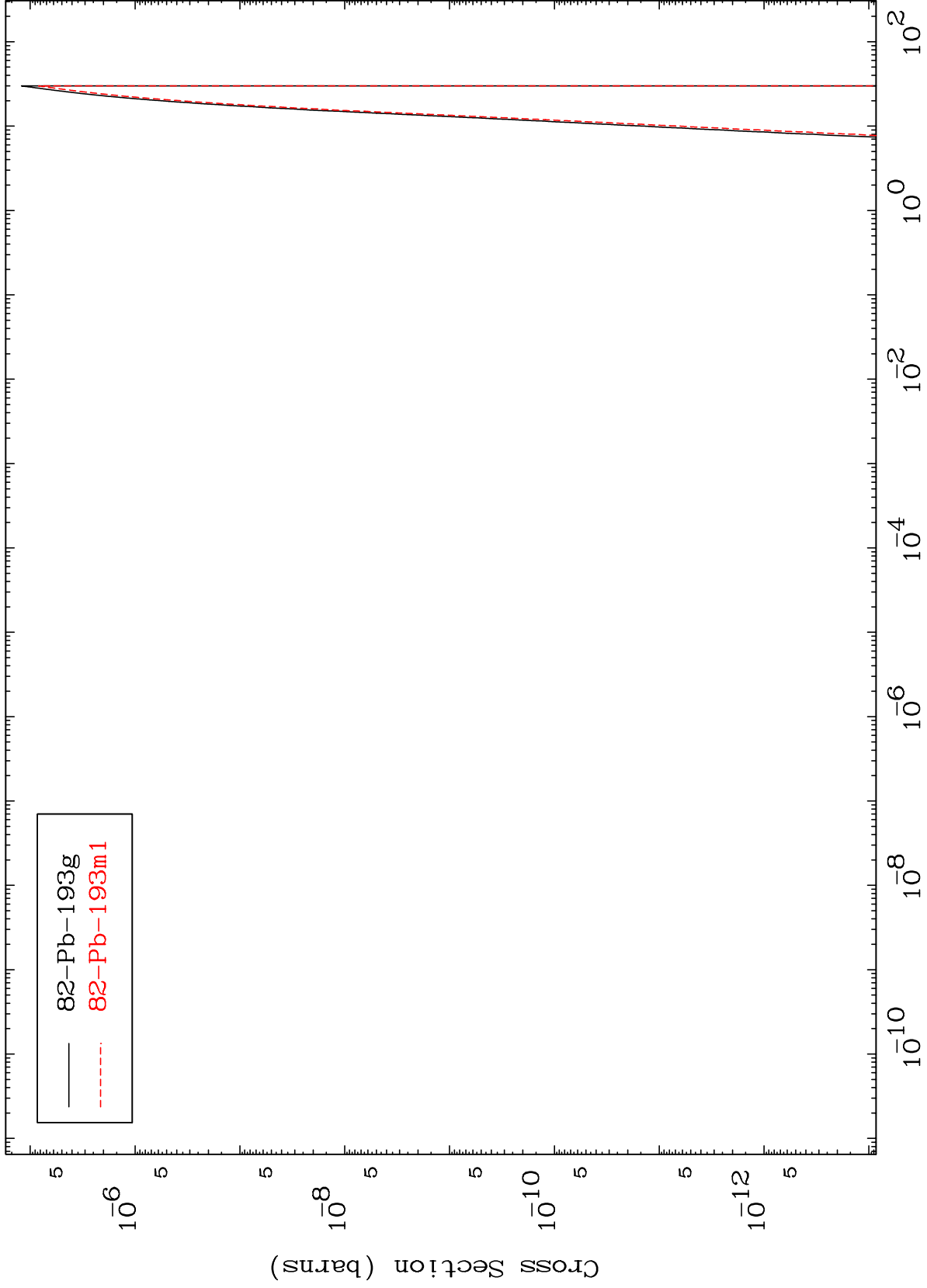
85-At-198

MAT 8510

(n,d) α

85-At-198

Radionuclide Production Cross Section



79

Incident Energy (MeV)

85-At-198