

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

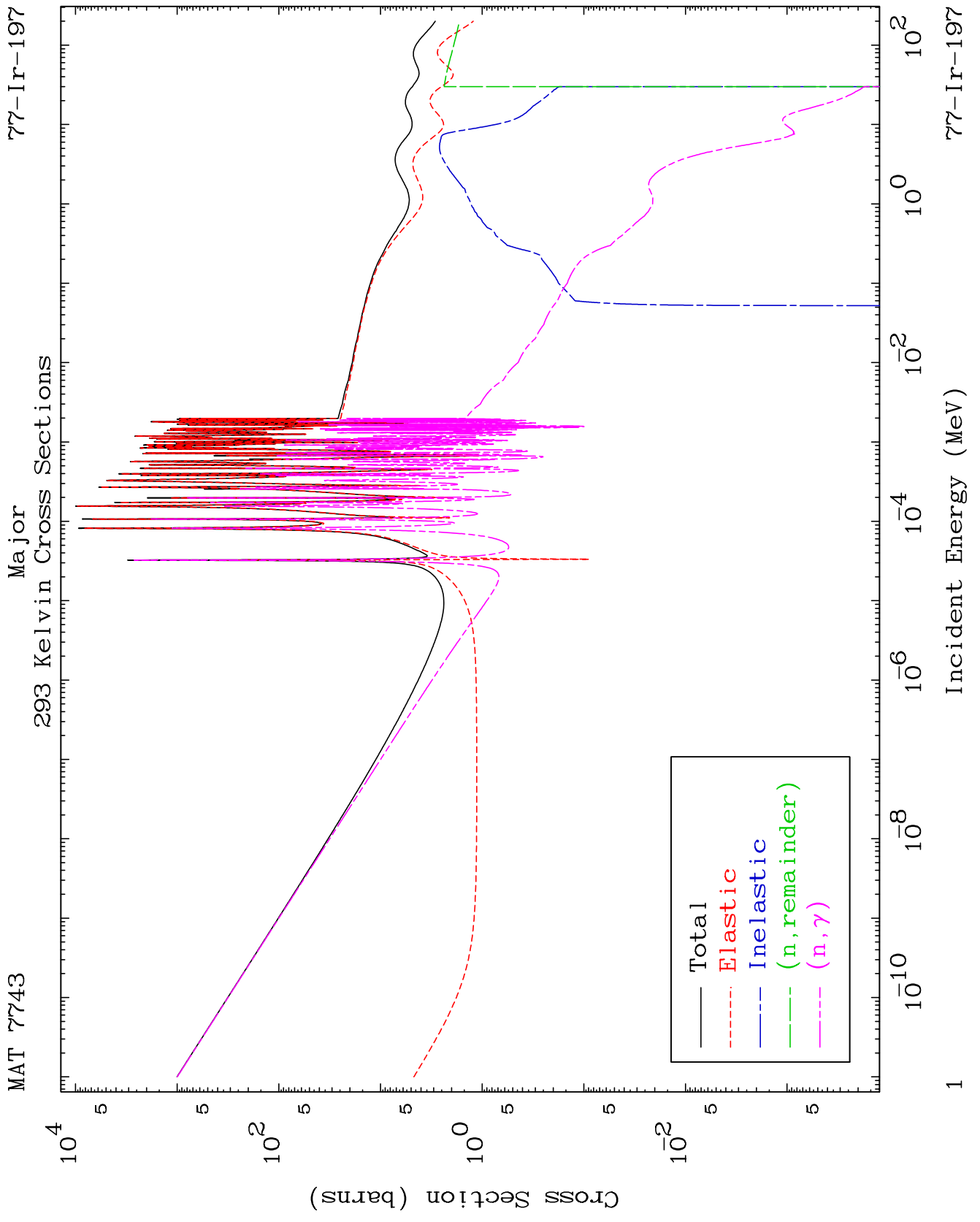
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

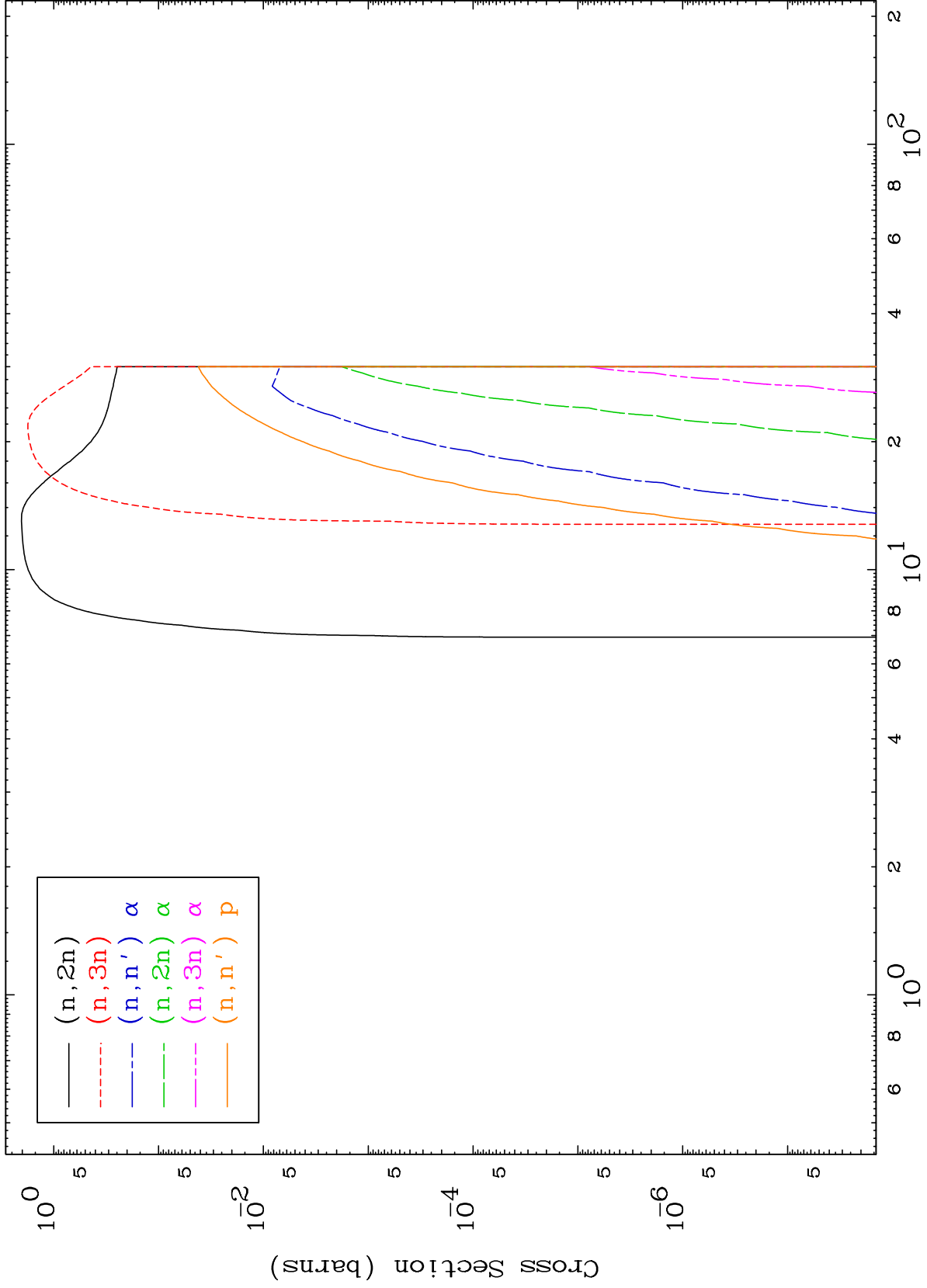
Tele: 925-443-1911

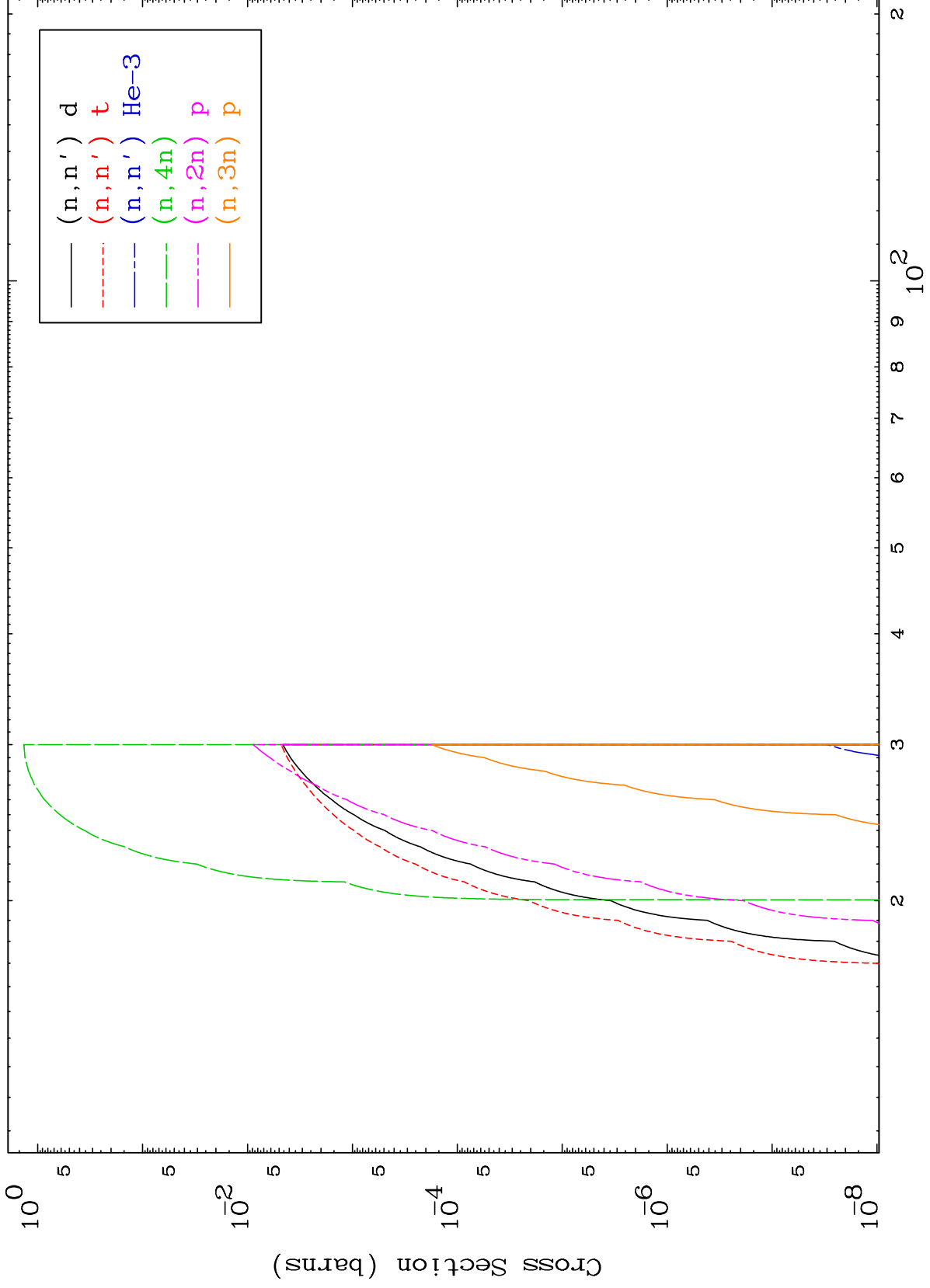
E.Mail: redcullen1@comcast.net

Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start





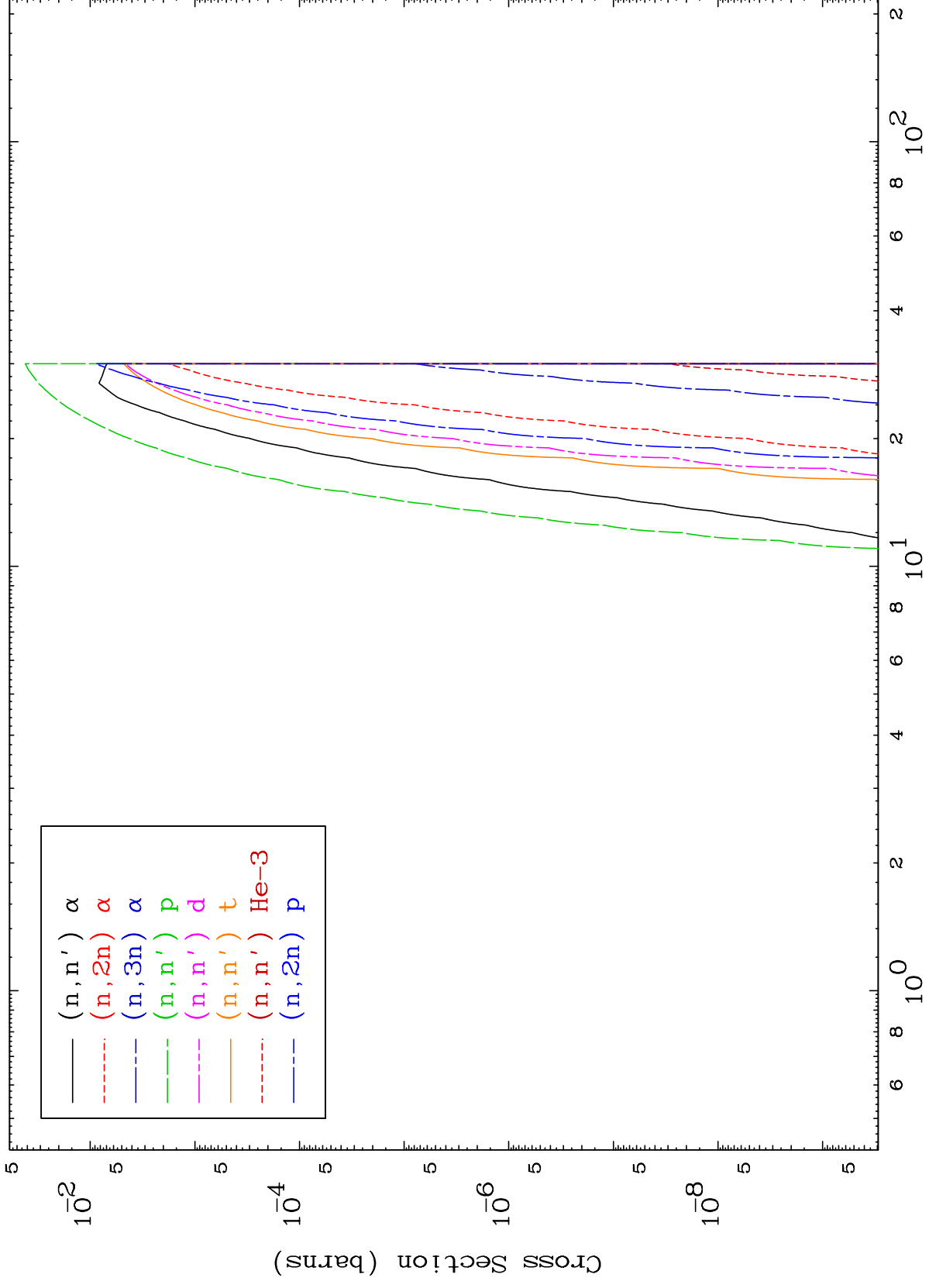


MAT 7743

Charged Particle

77-Ir-197

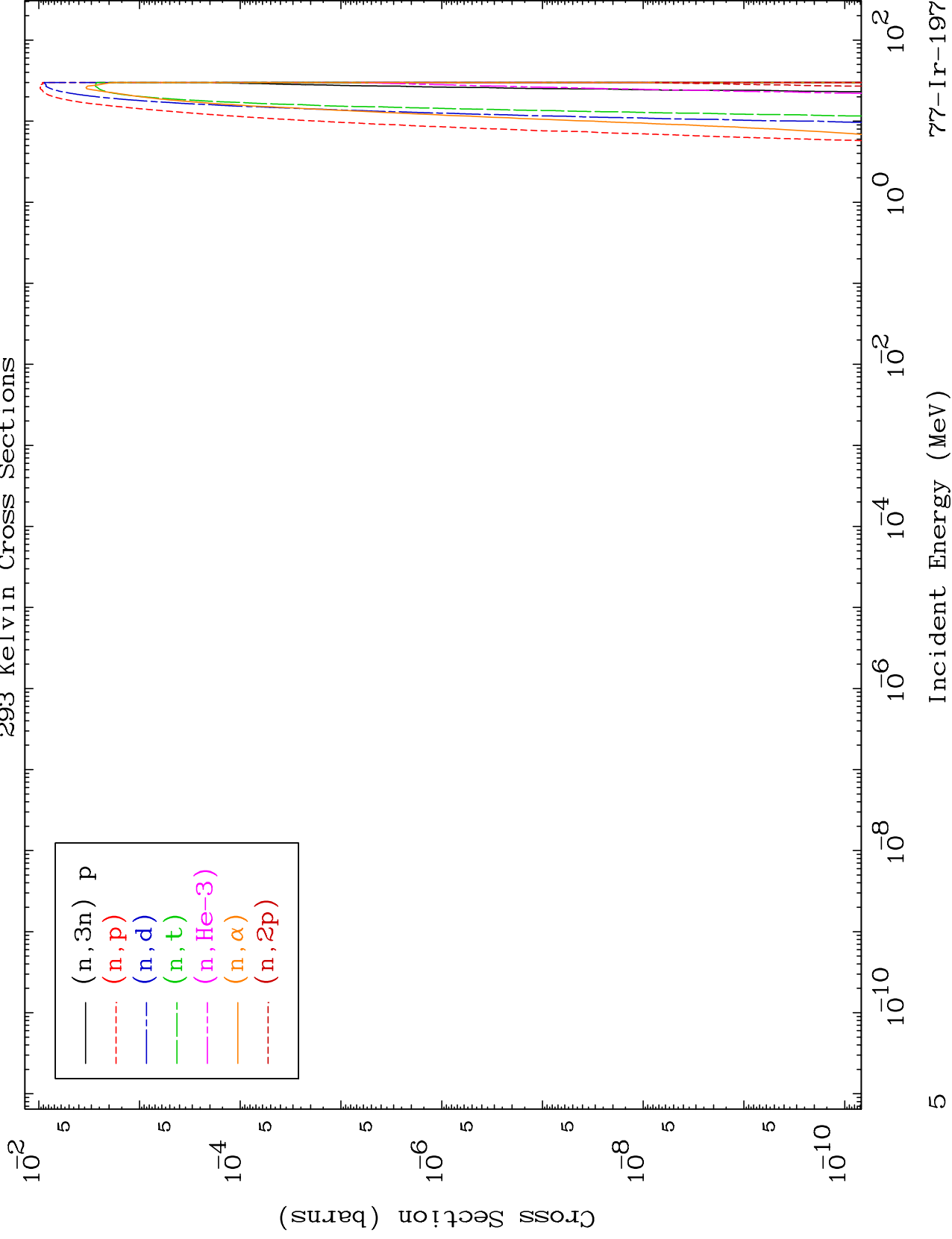
293 Kelvin Cross Sections



MAT 7743

Charged Particle
293 Kelvin Cross Sections

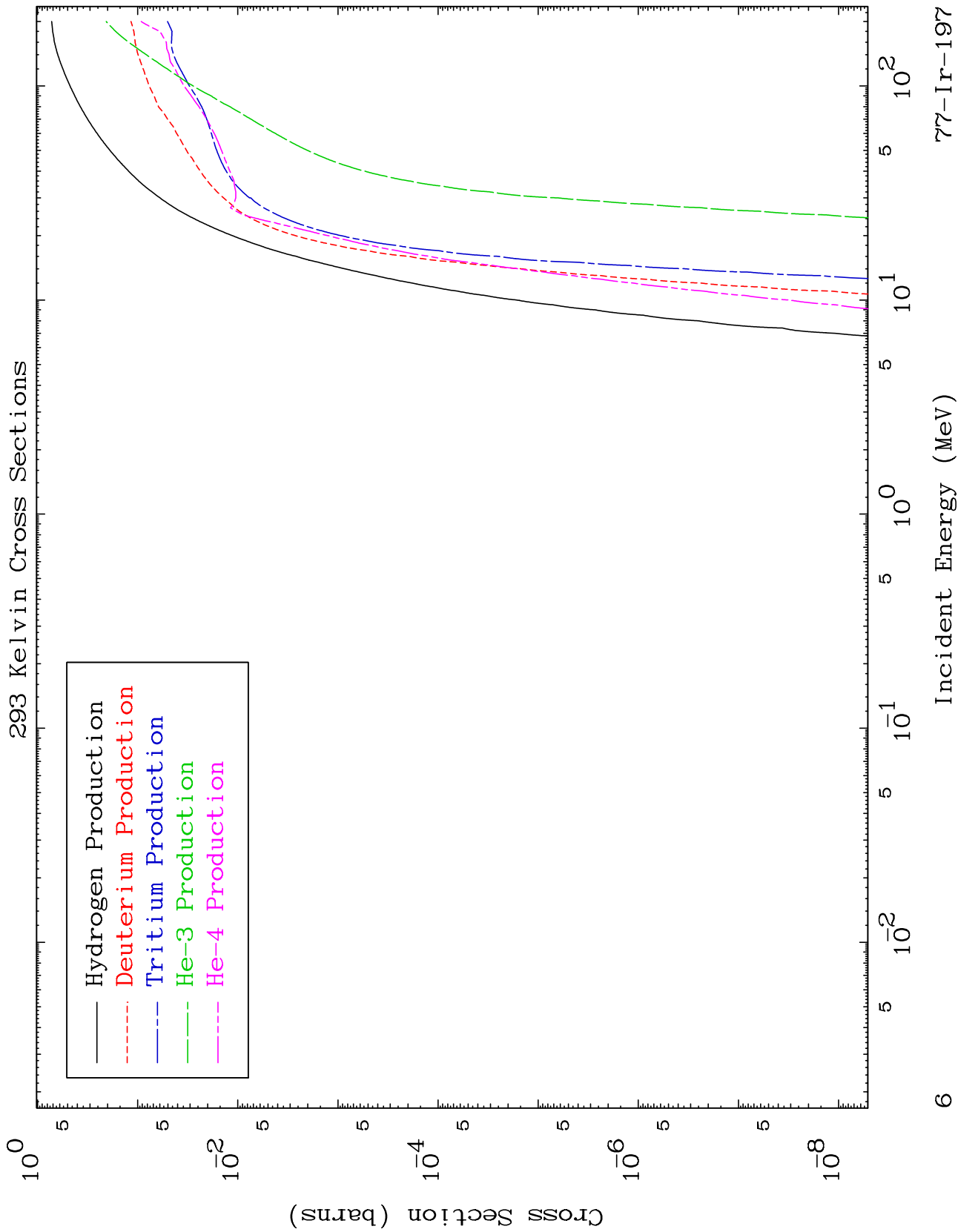
77-Ir-197



MAT 7743

Particle Production
293 Kelvin Cross Sections

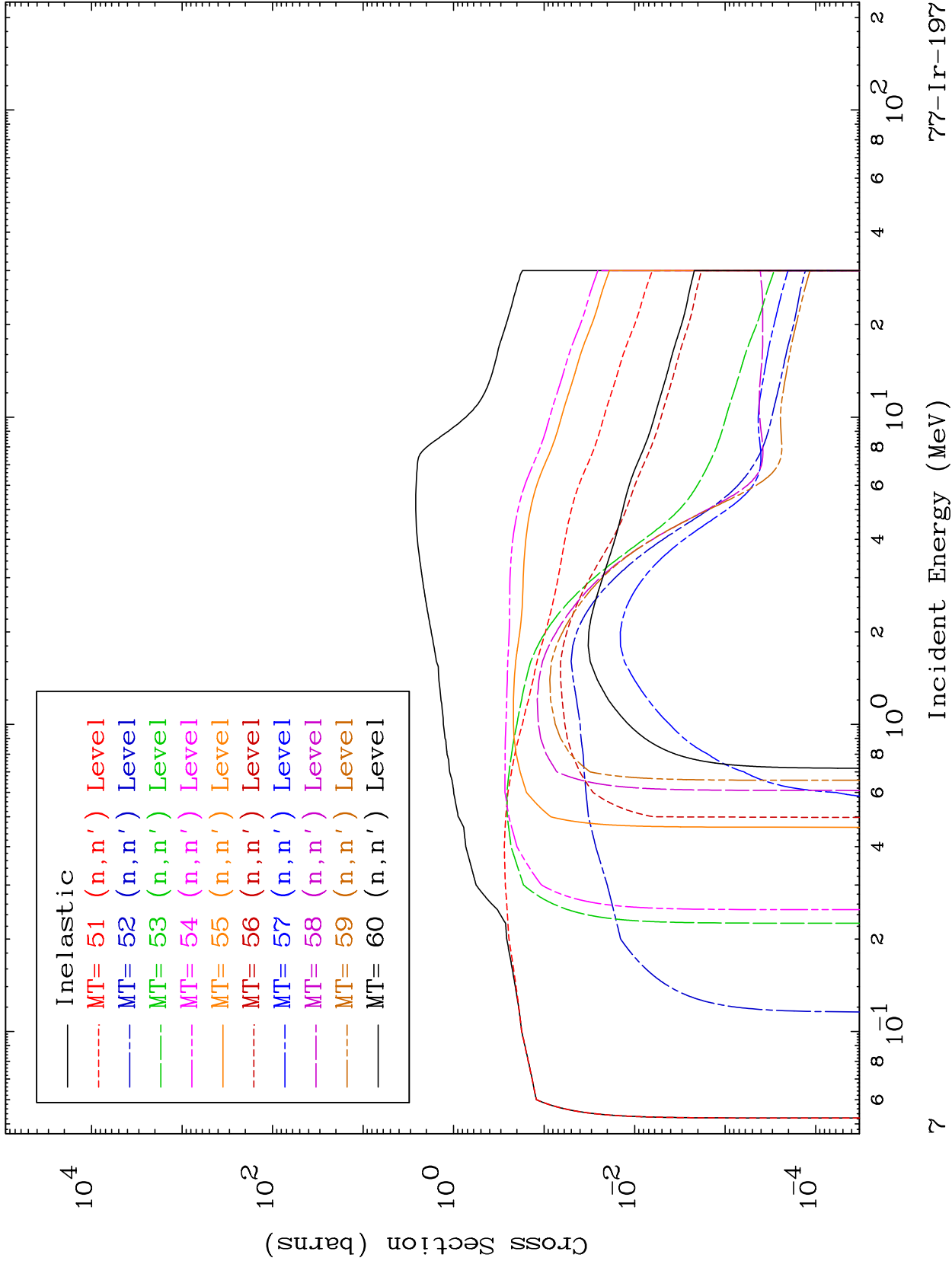
77-Ir-197



MAT 7743

(n,n') Level
293 Kelvin Cross Sections

77-Ir-197

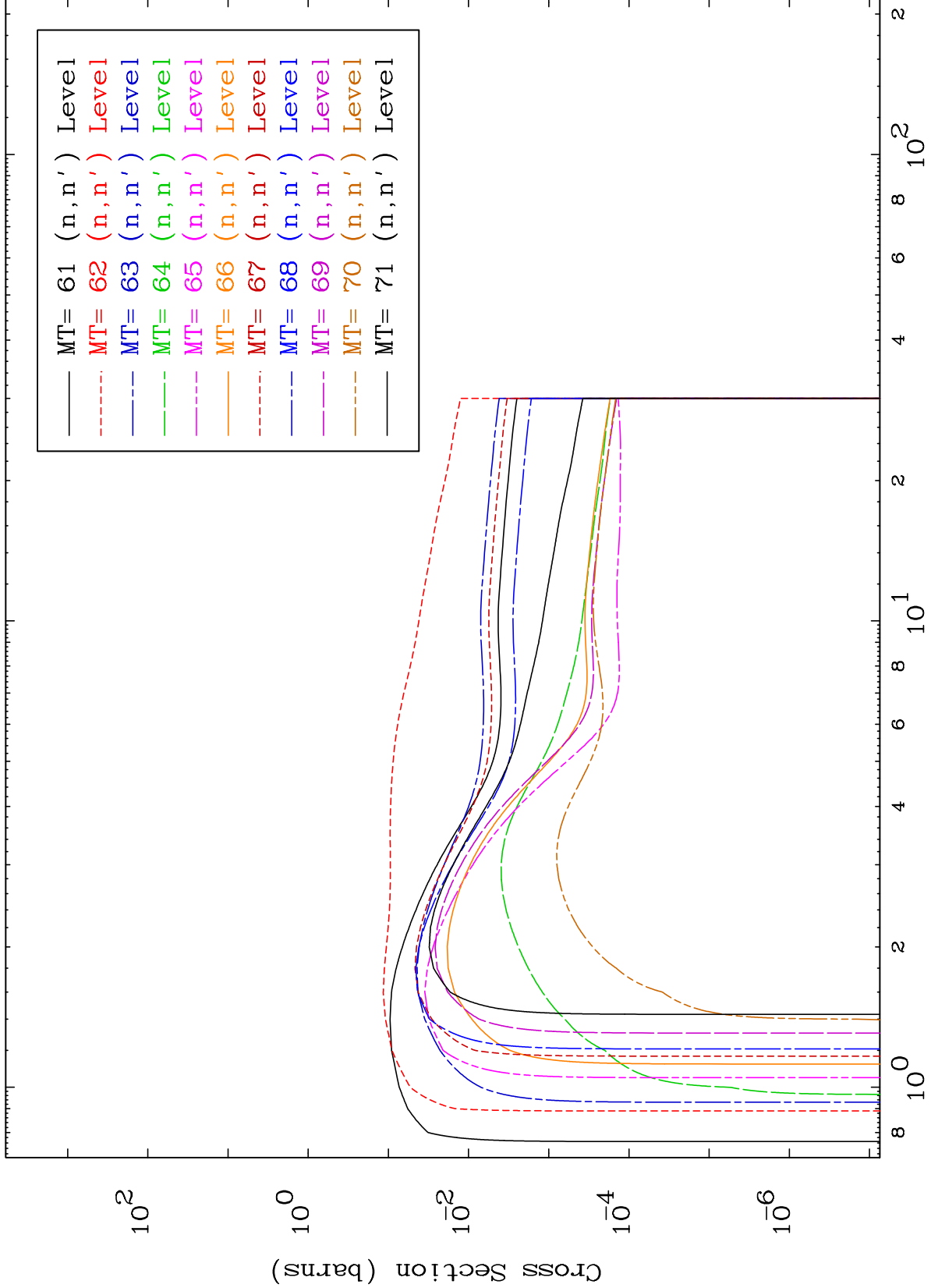


MAT 7743

(n,n') Level

77-Ir-197

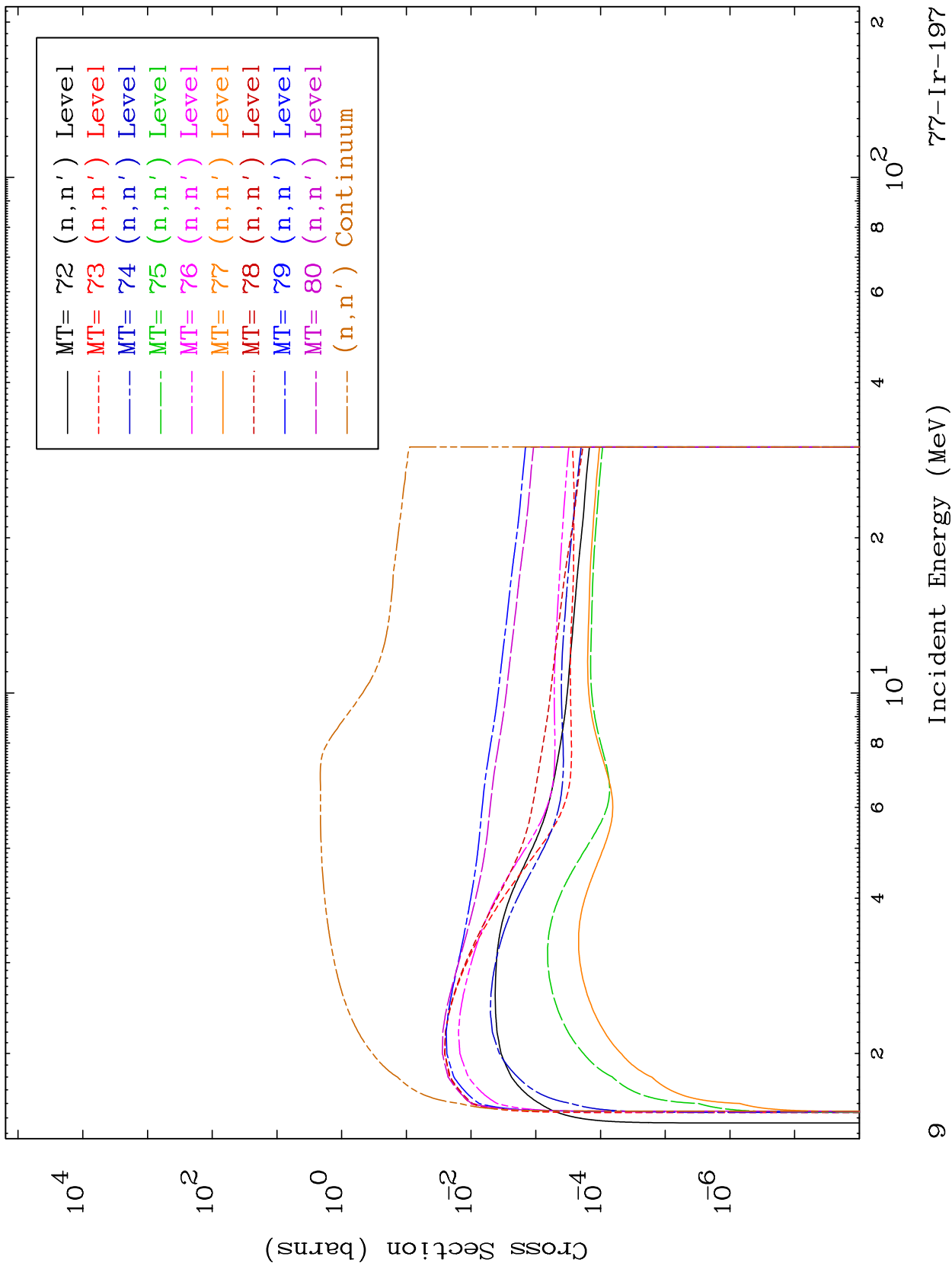
293 Kelvin Cross Sections



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Incident Energy (MeV)

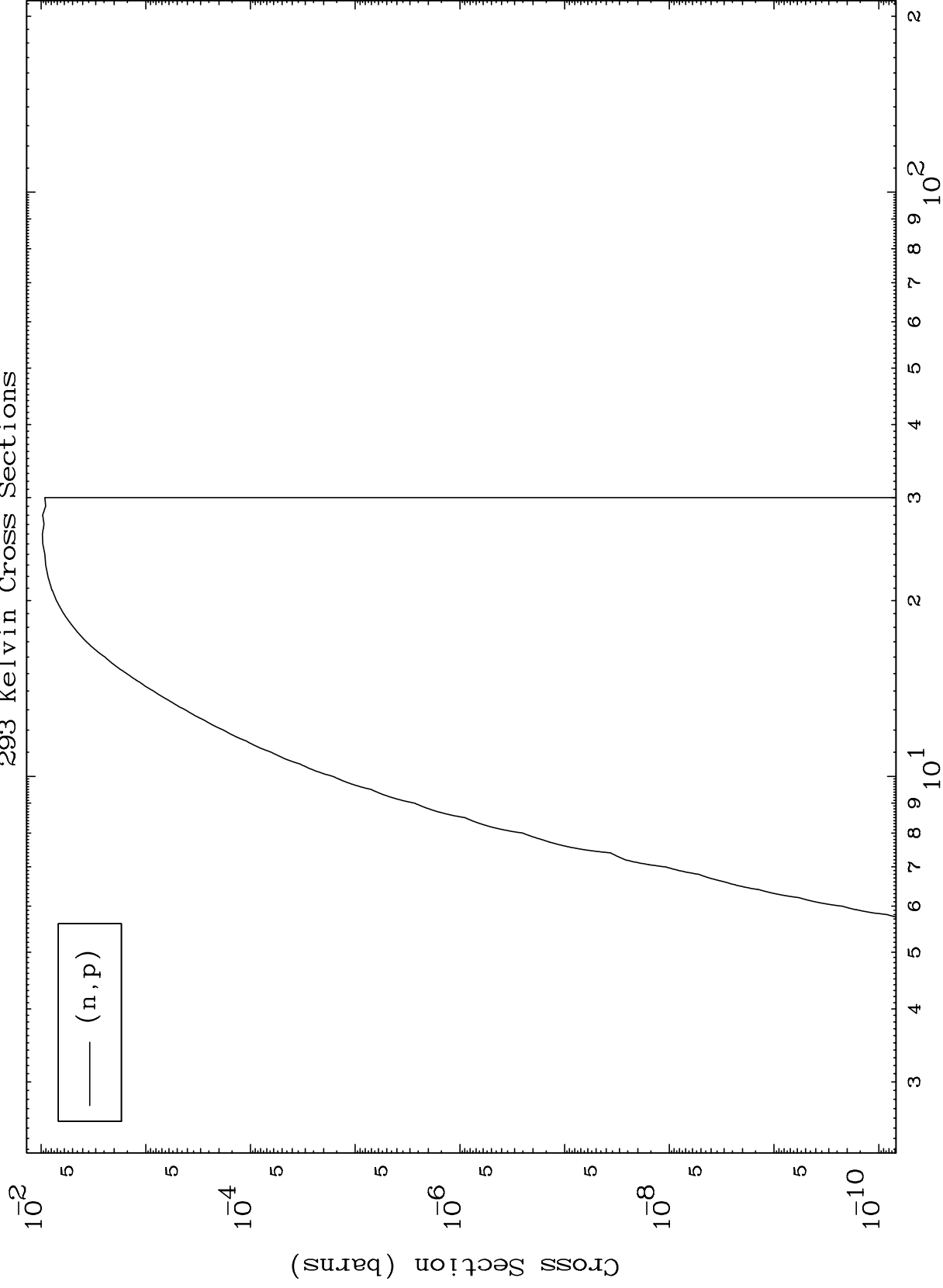
77-Ir-197



MAT 7743

(n,p) Levels
293 Kelvin Cross Sections

77-Ir-197



10

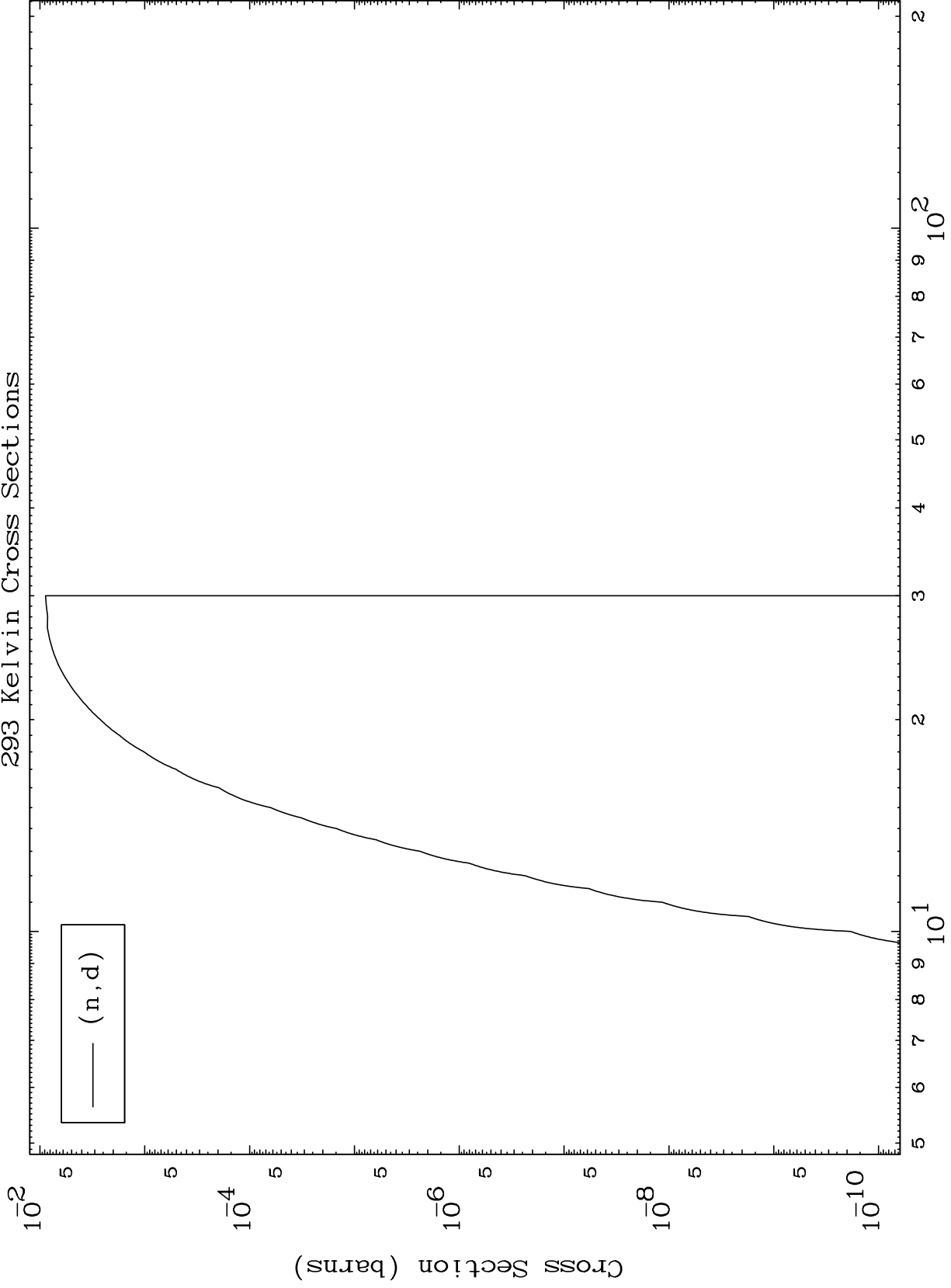
Incident Energy (MeV)

77-Ir-197

MAT 7743

(n,d) Levels
293 Kelvin Cross Sections

77-Ir-197



11

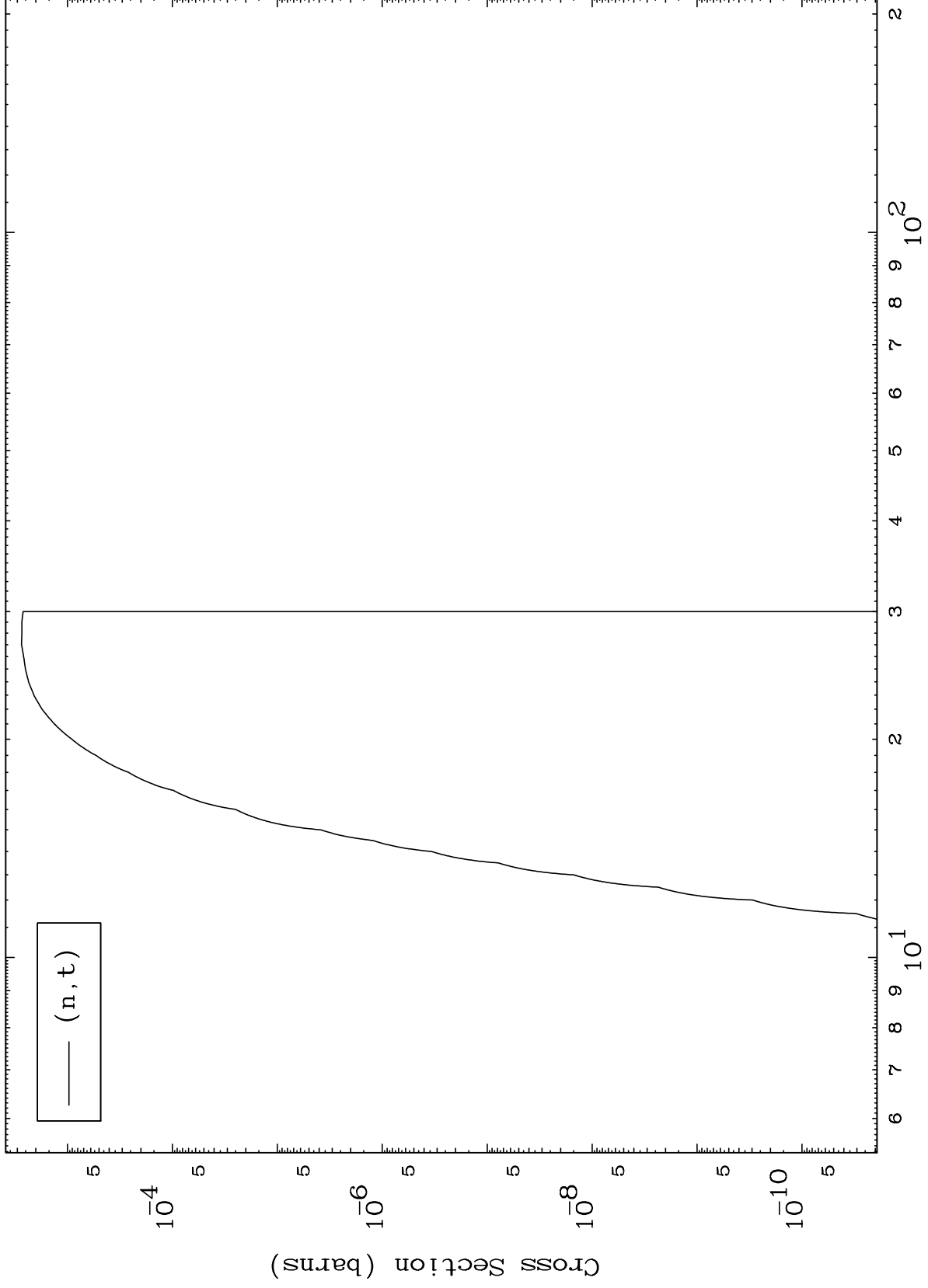
Incident Energy (MeV)

77-Ir-197

MAT 7743

(n,t) Levels
293 Kelvin Cross Sections

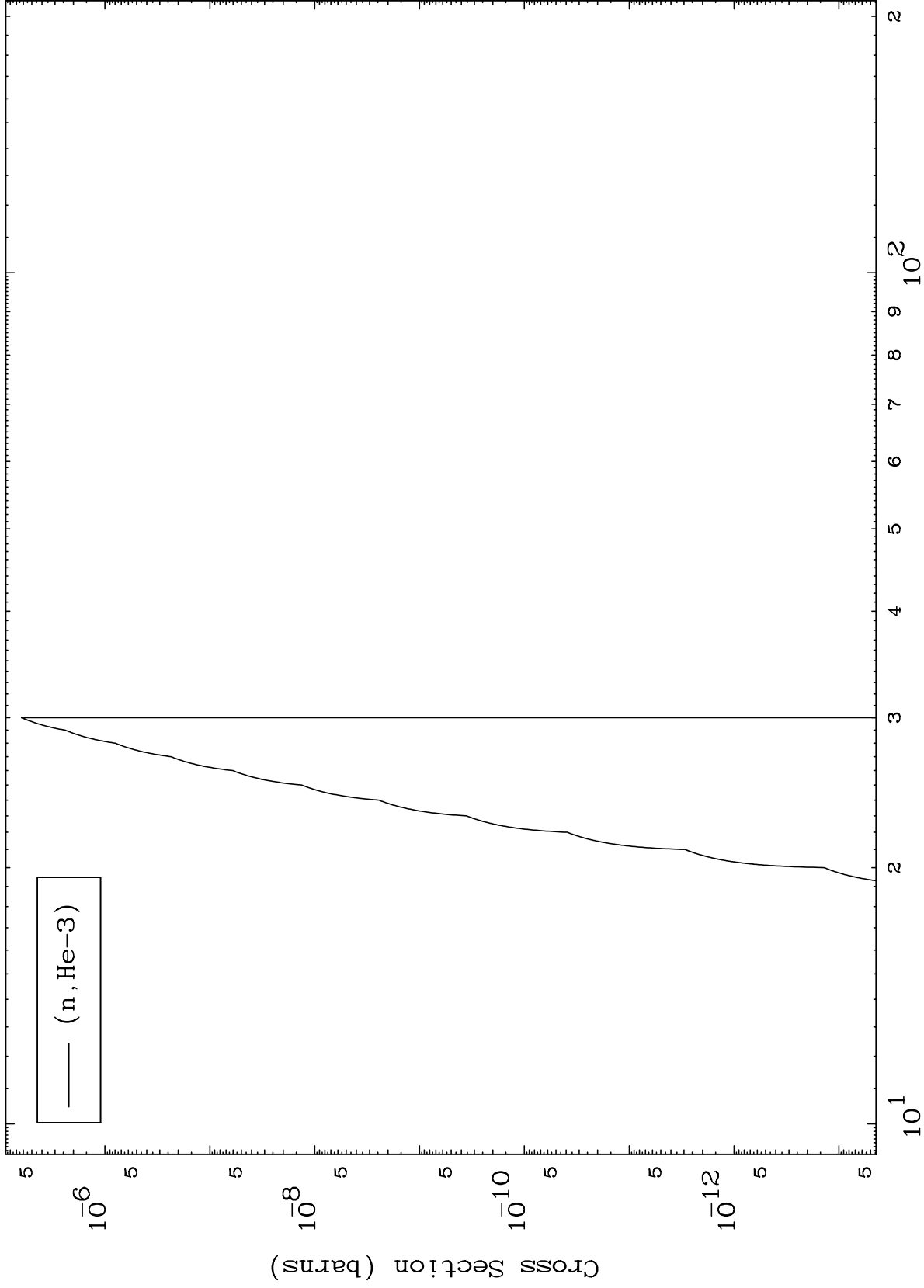
77-Ir-197



MAT 7743

(n,He3) Levels
293 Kelvin Cross Sections

77-Ir-197



Incident Energy (MeV)

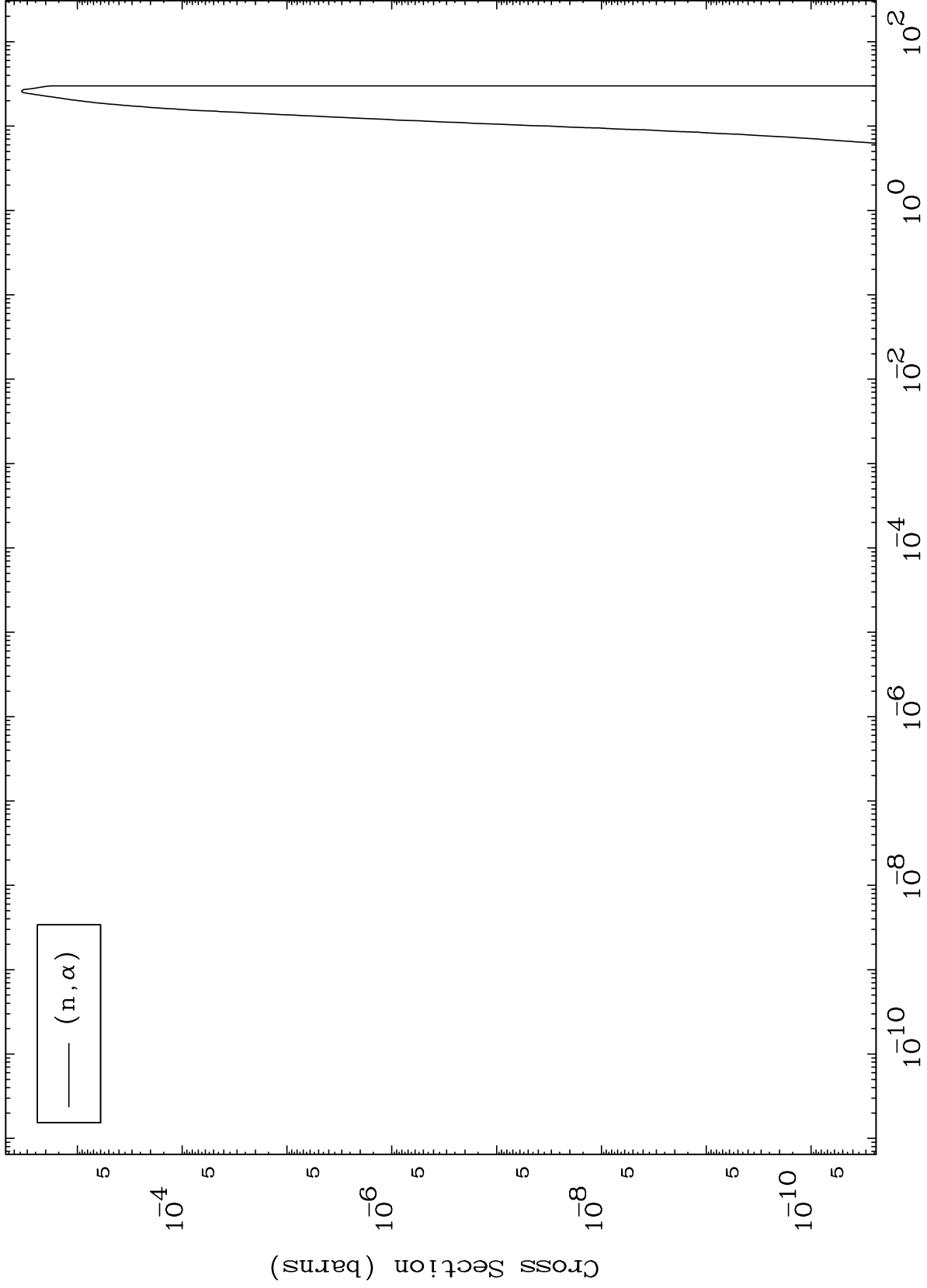
77-Ir-197

13

MAT 7743

(n, α) Levels
293 Kelvin Cross Sections

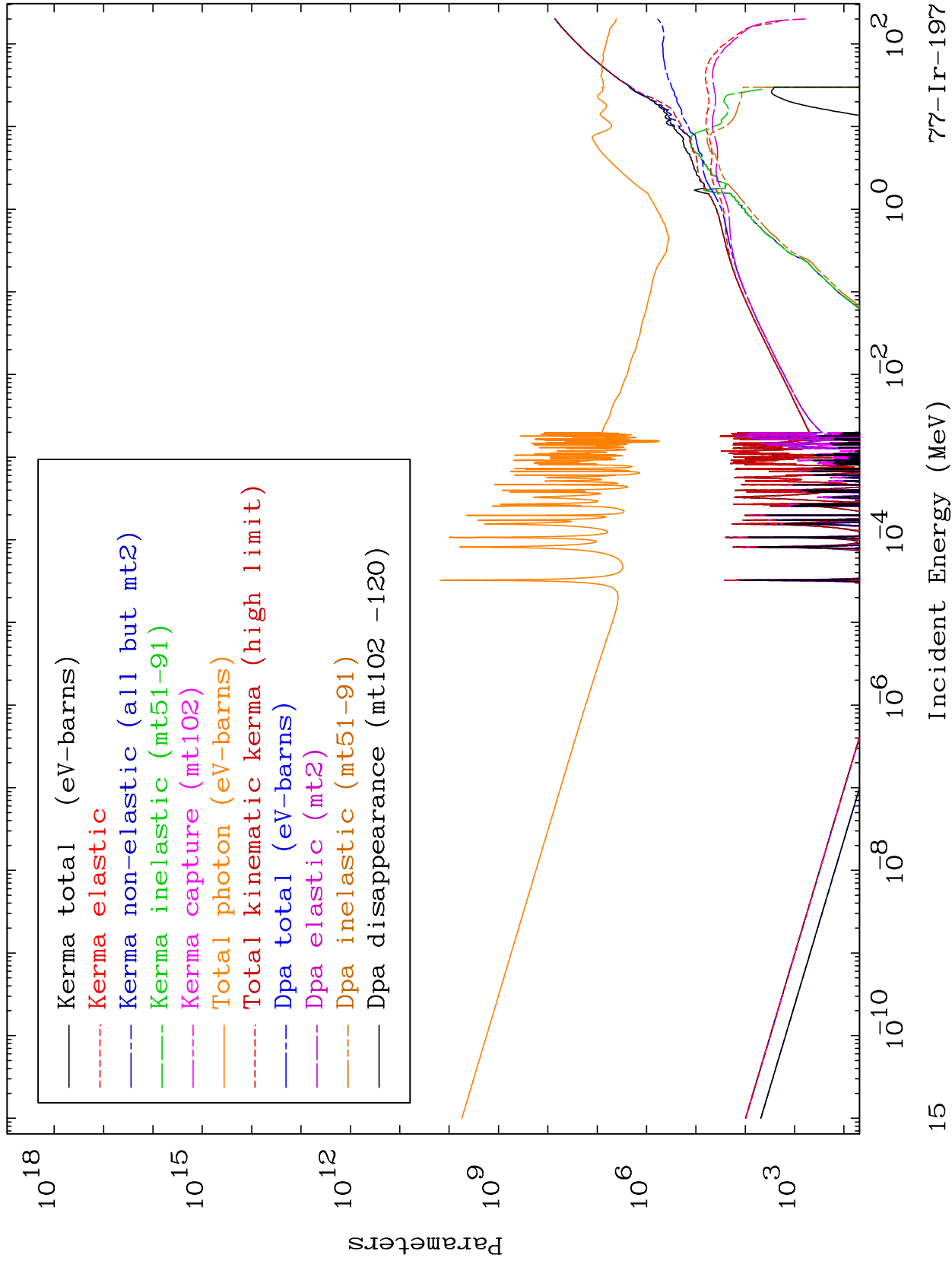
77-Ir-197



14

Incident Energy (MeV)

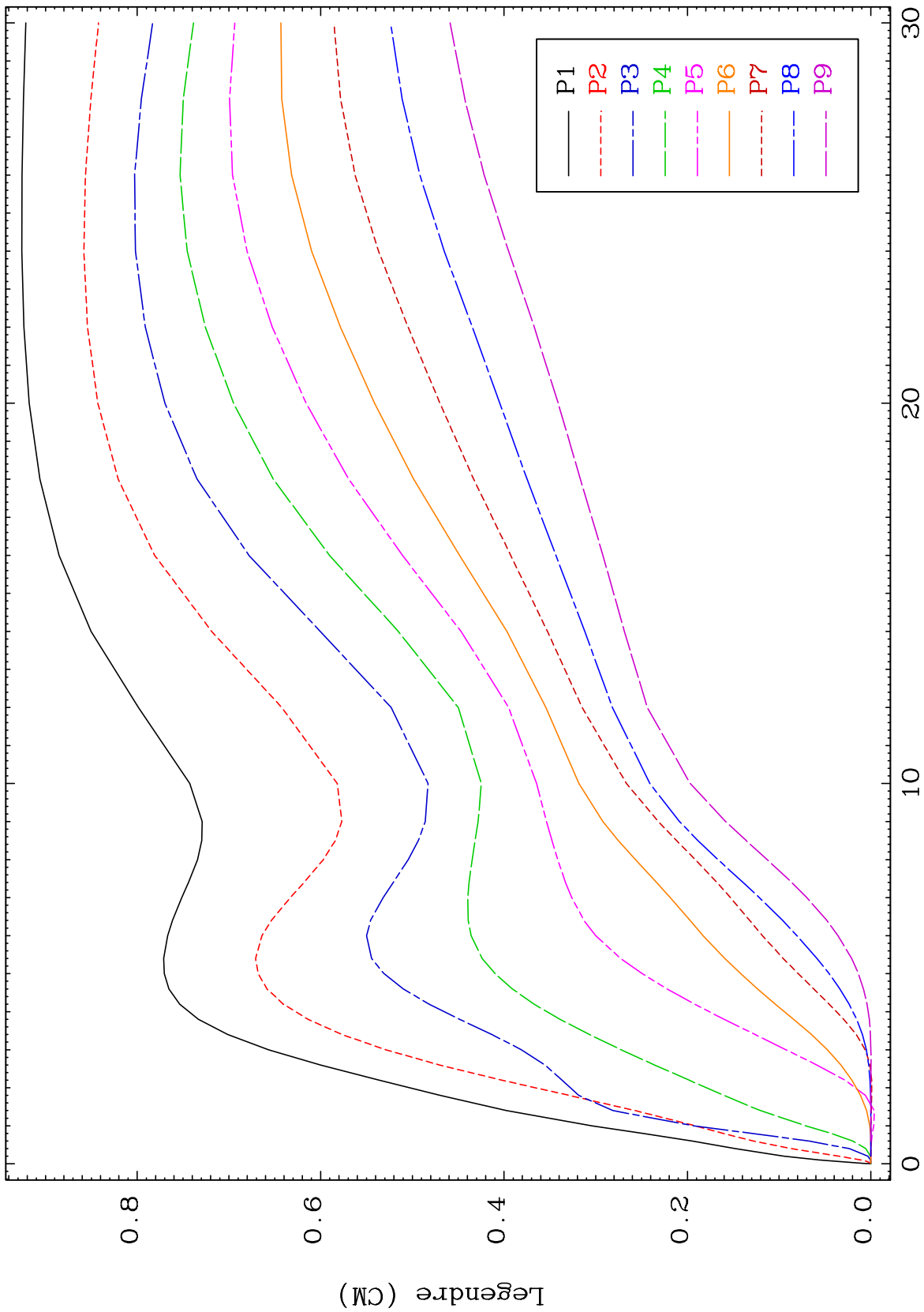
77-Ir-197



MAT 7743

77-Ir-197

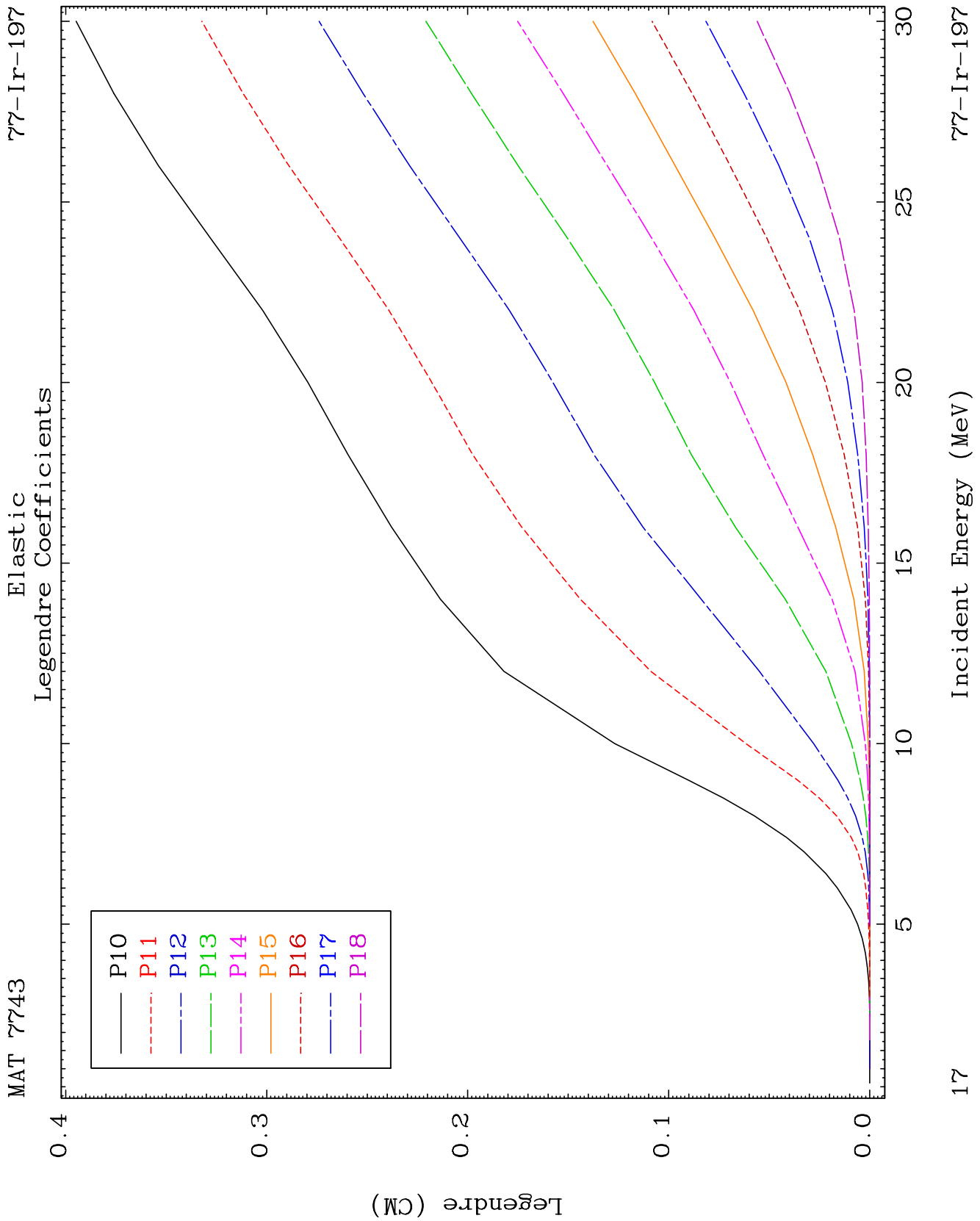
Elastic Legendre Coefficients



77-Ir-197

Incident Energy (MeV)

16



MAT 7743

Elastic Legendre Coefficients

77-Ir-197

17

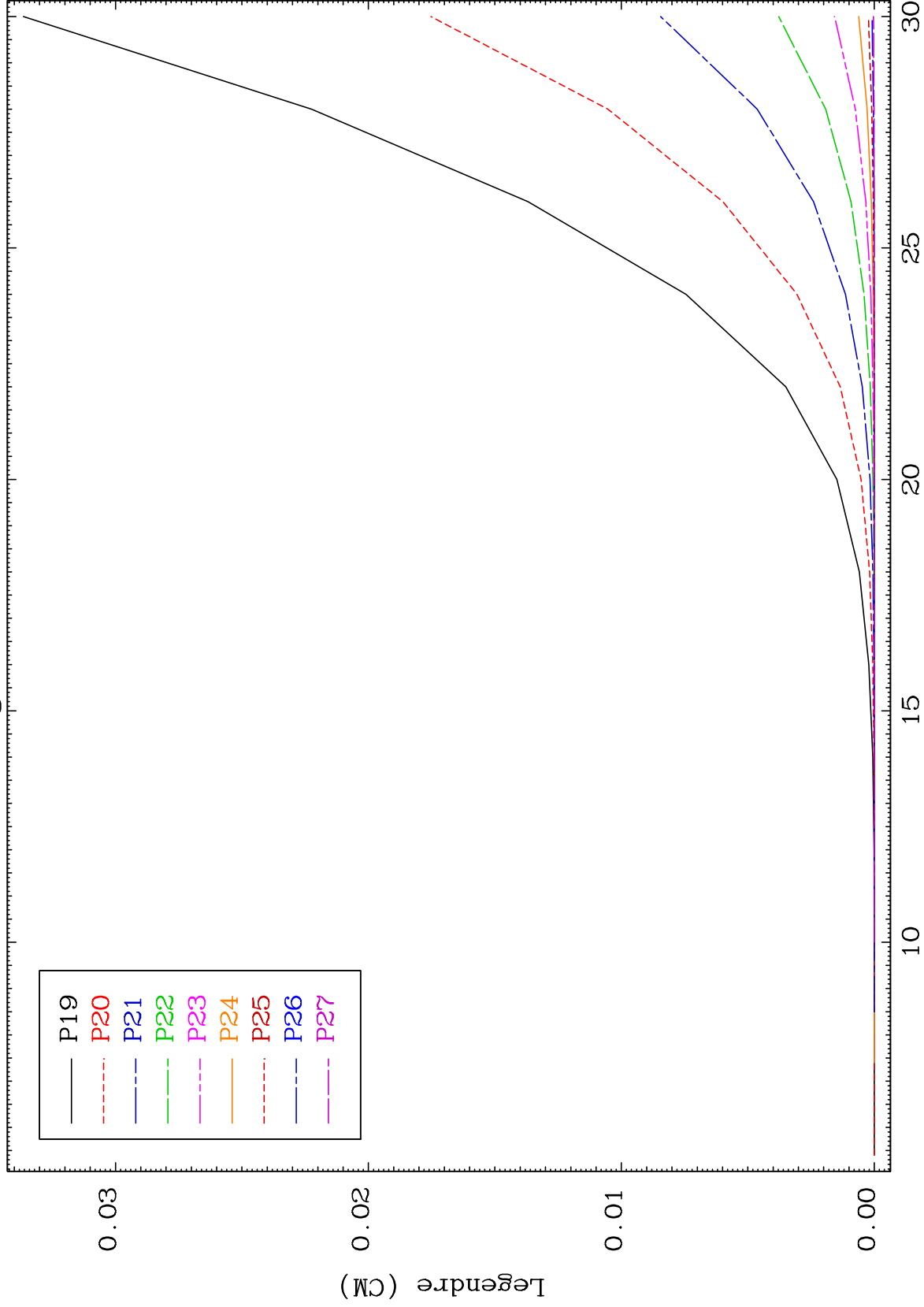
Incident Energy (MeV)

77-Ir-197

MAT 7743

Elastic Legendre Coefficients

77-Ir-197



18

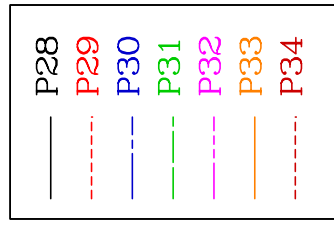
Incident Energy (MeV)

77-Ir-197

MAT 7743

Elastic Legendre Coefficients

77-Ir-197



$\times 10^{-5}$
1.0
0.8
0.6
0.4
0.2
0.0

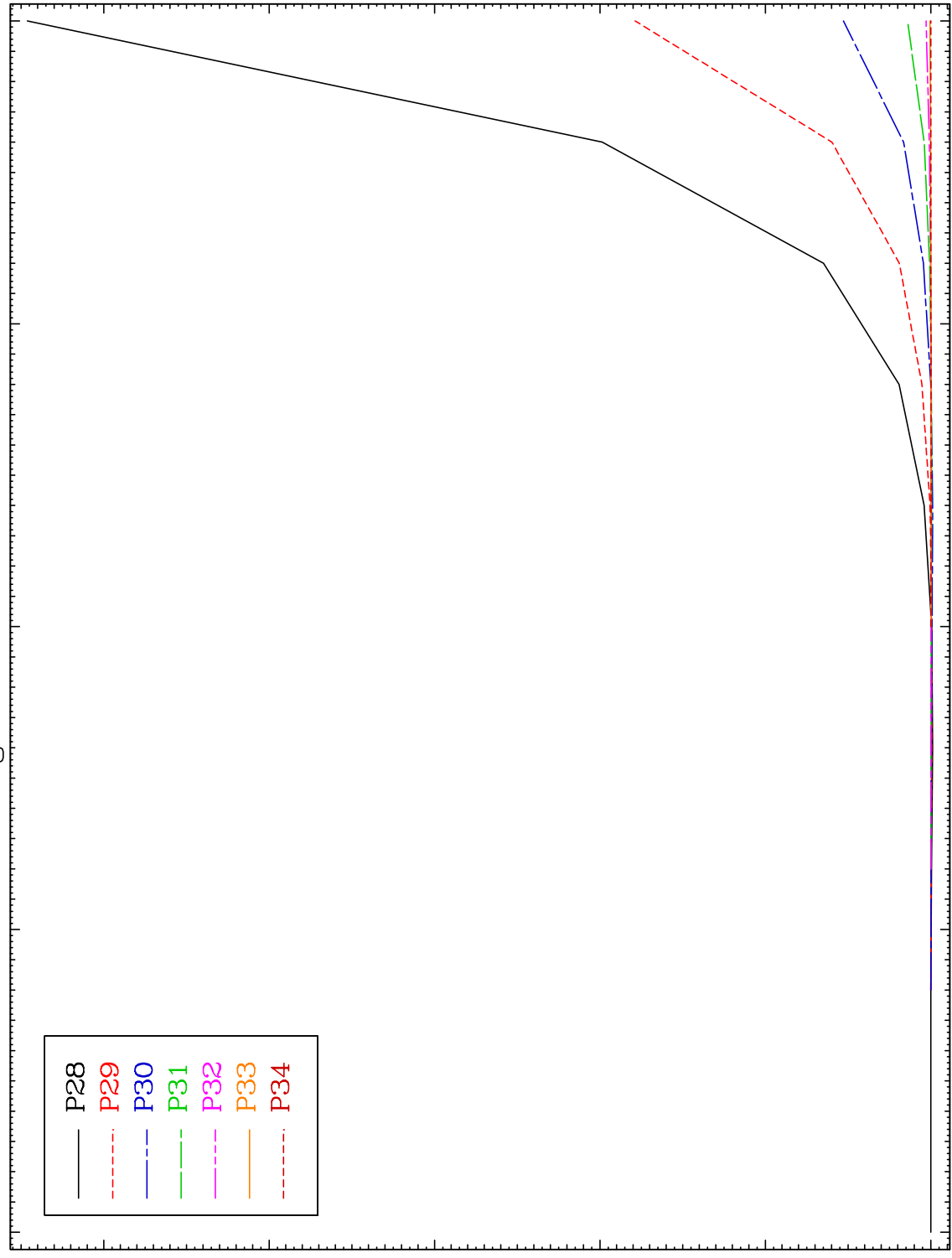
Legendre (CM)

10 15 20 25 30

19

Incident Energy (MeV)

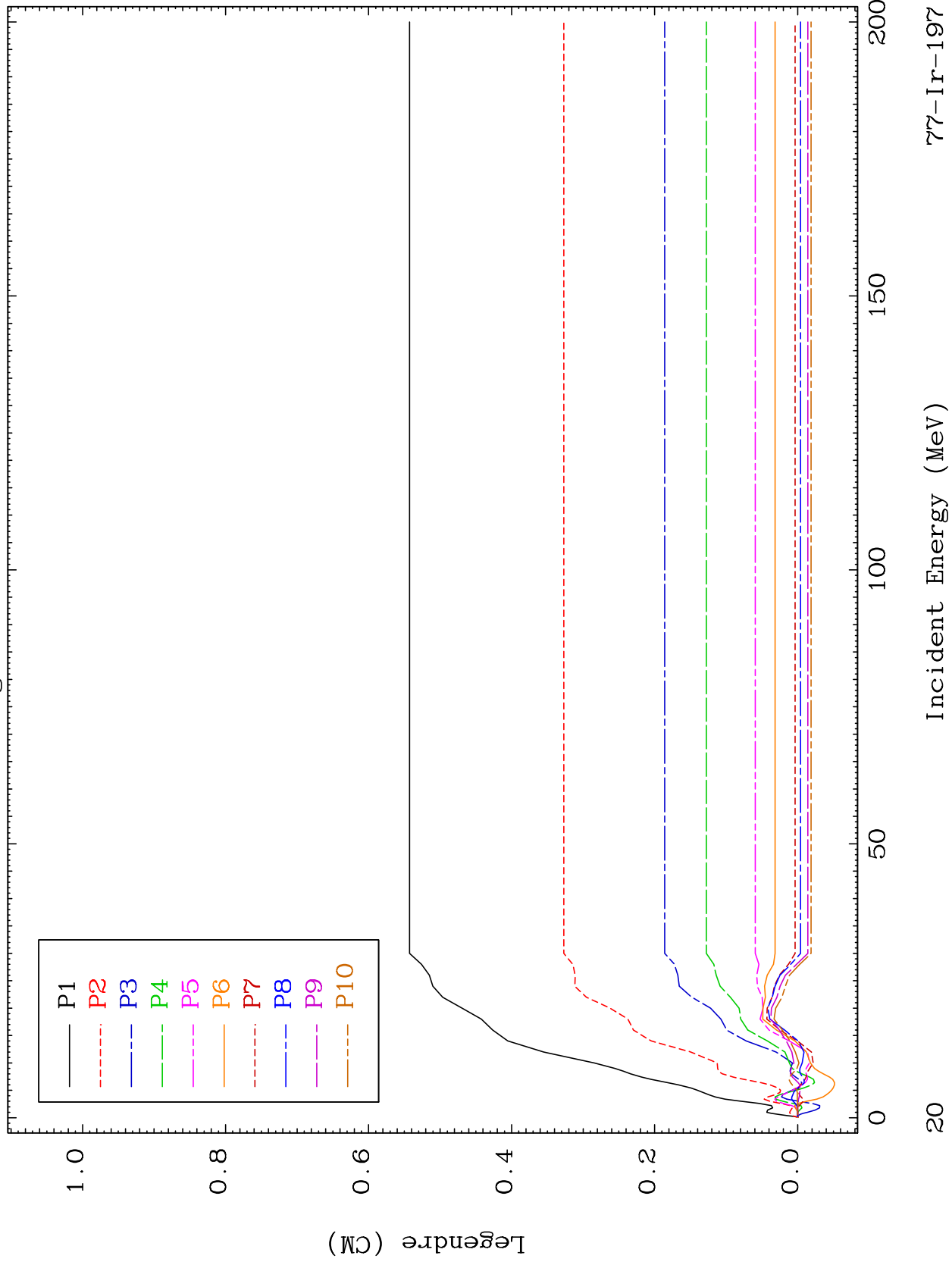
77-Ir-197



MAT 7743

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

77-Ir-197



77-Ir-197

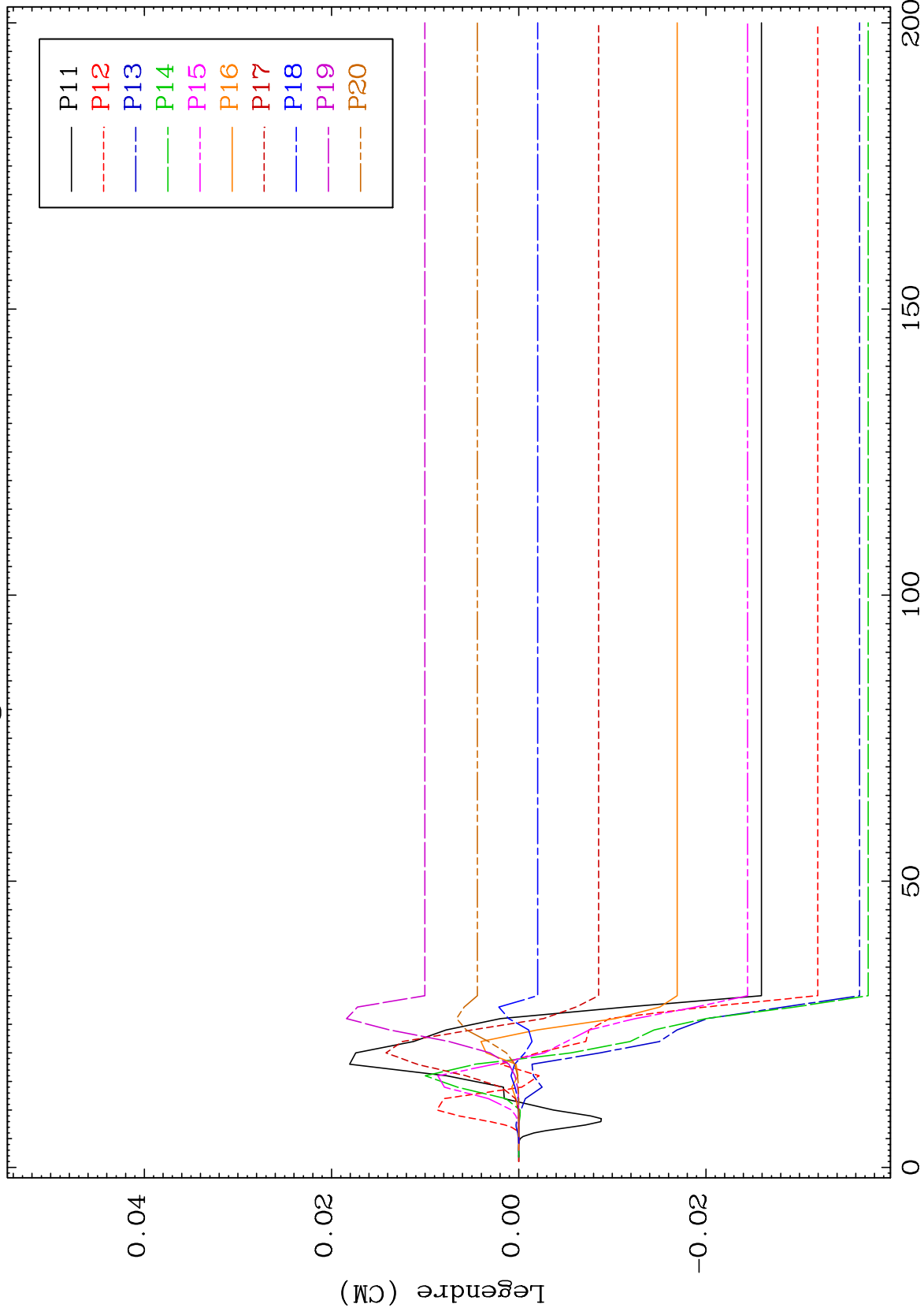
Incident Energy (MeV)

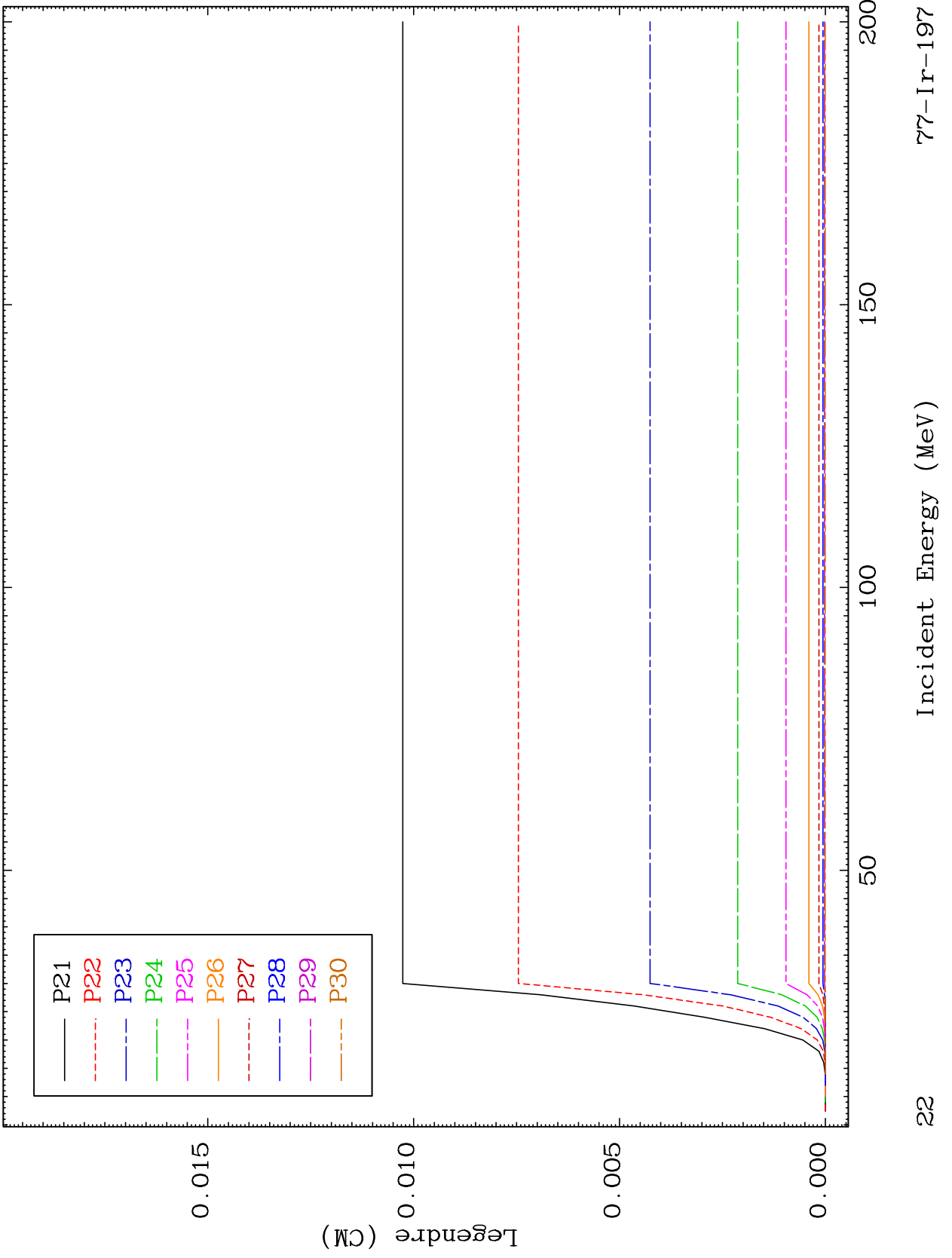
20

MAT 7743

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

77-Ir-197

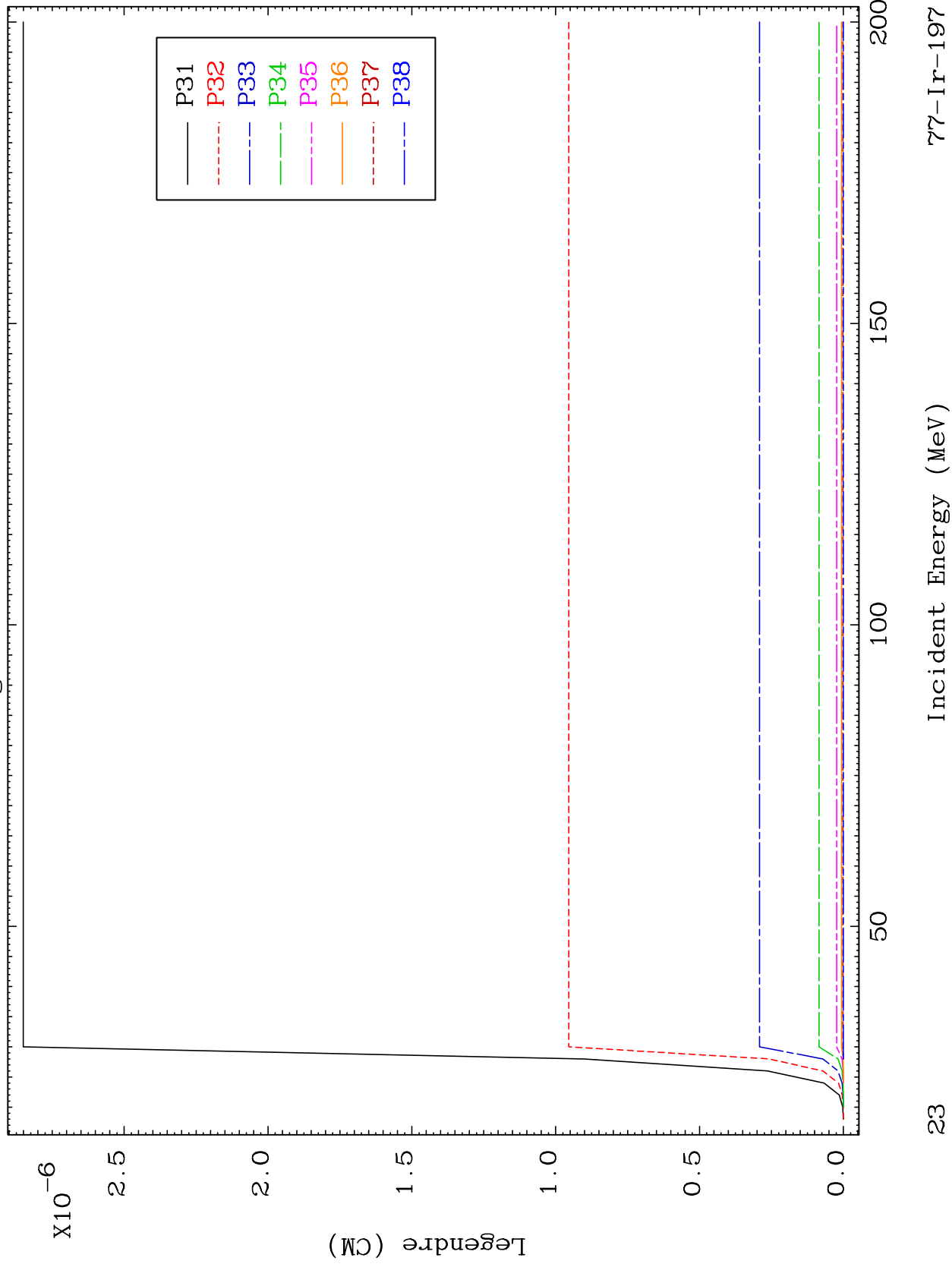




MAT 7743

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

77-Ir-197



23

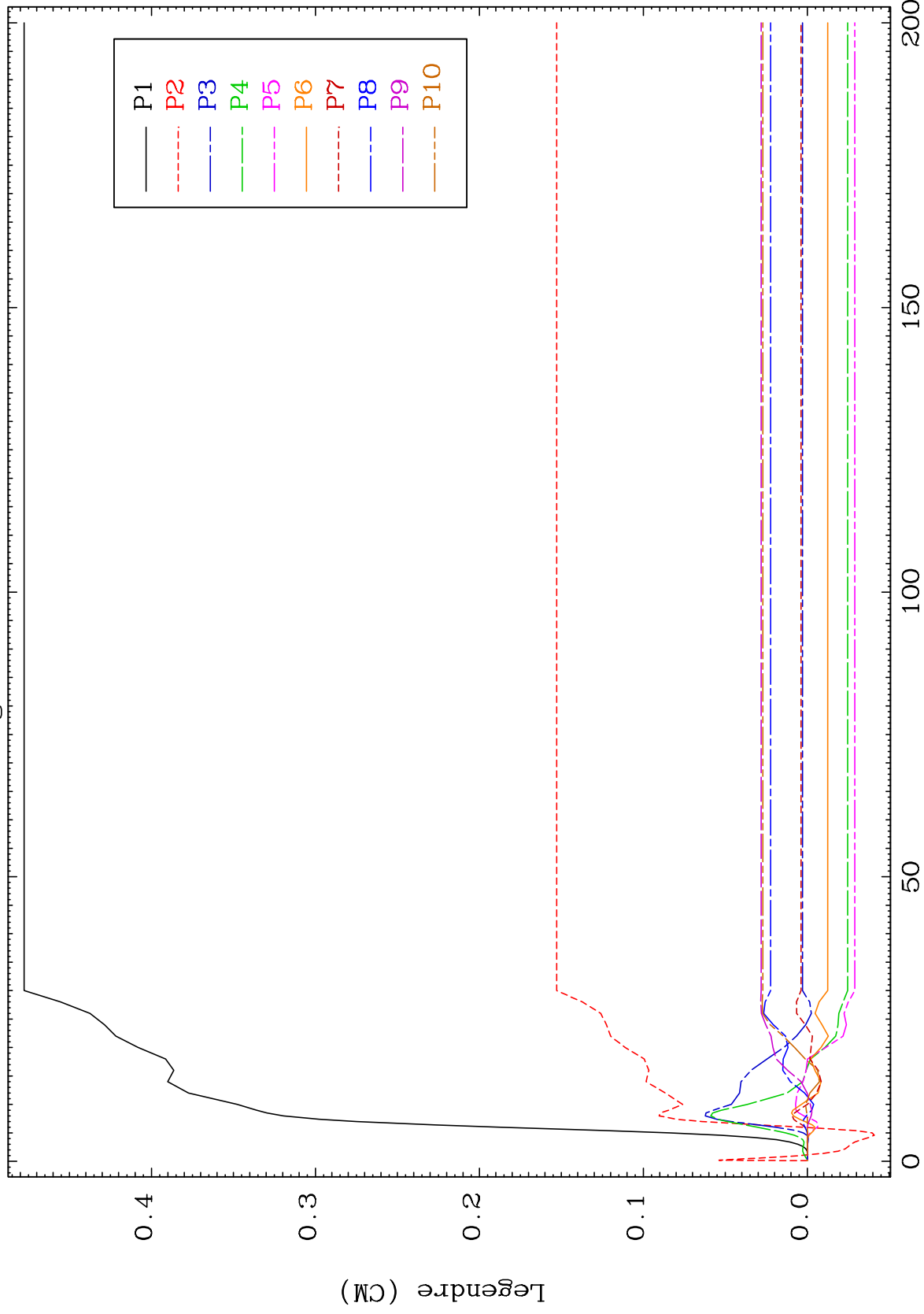
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

77-Ir-197



24

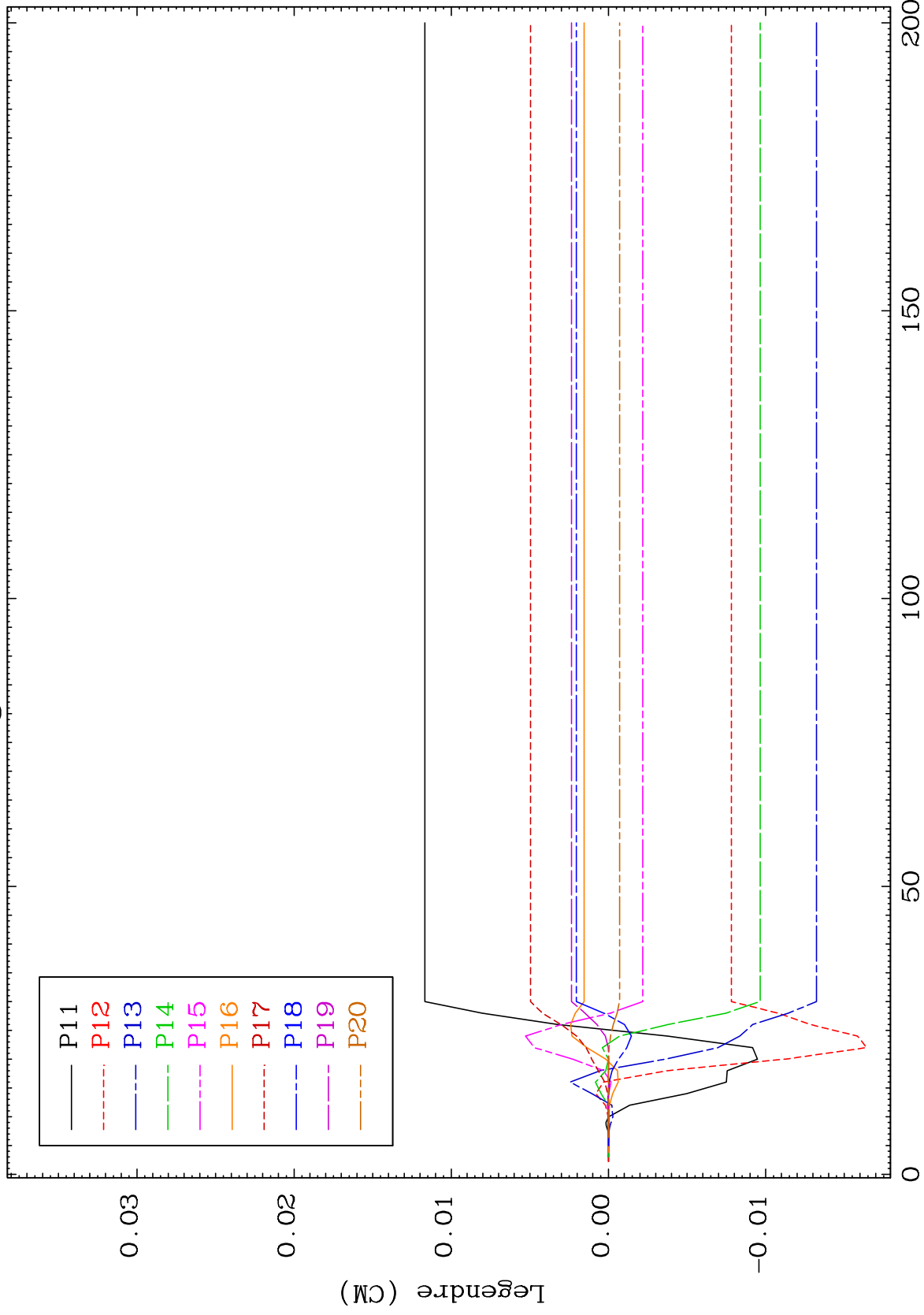
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

77-Ir-197



25

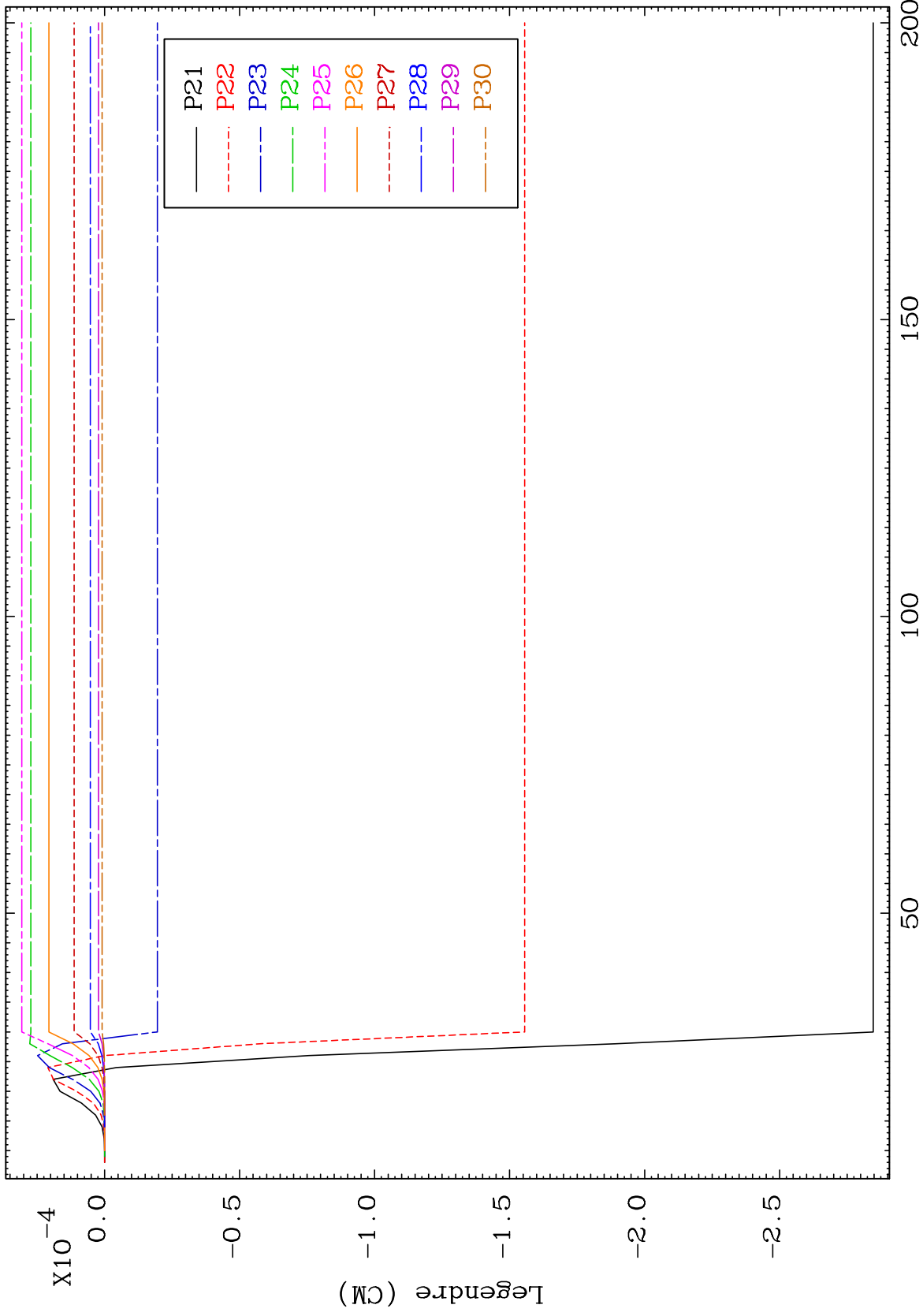
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

77-Ir-197



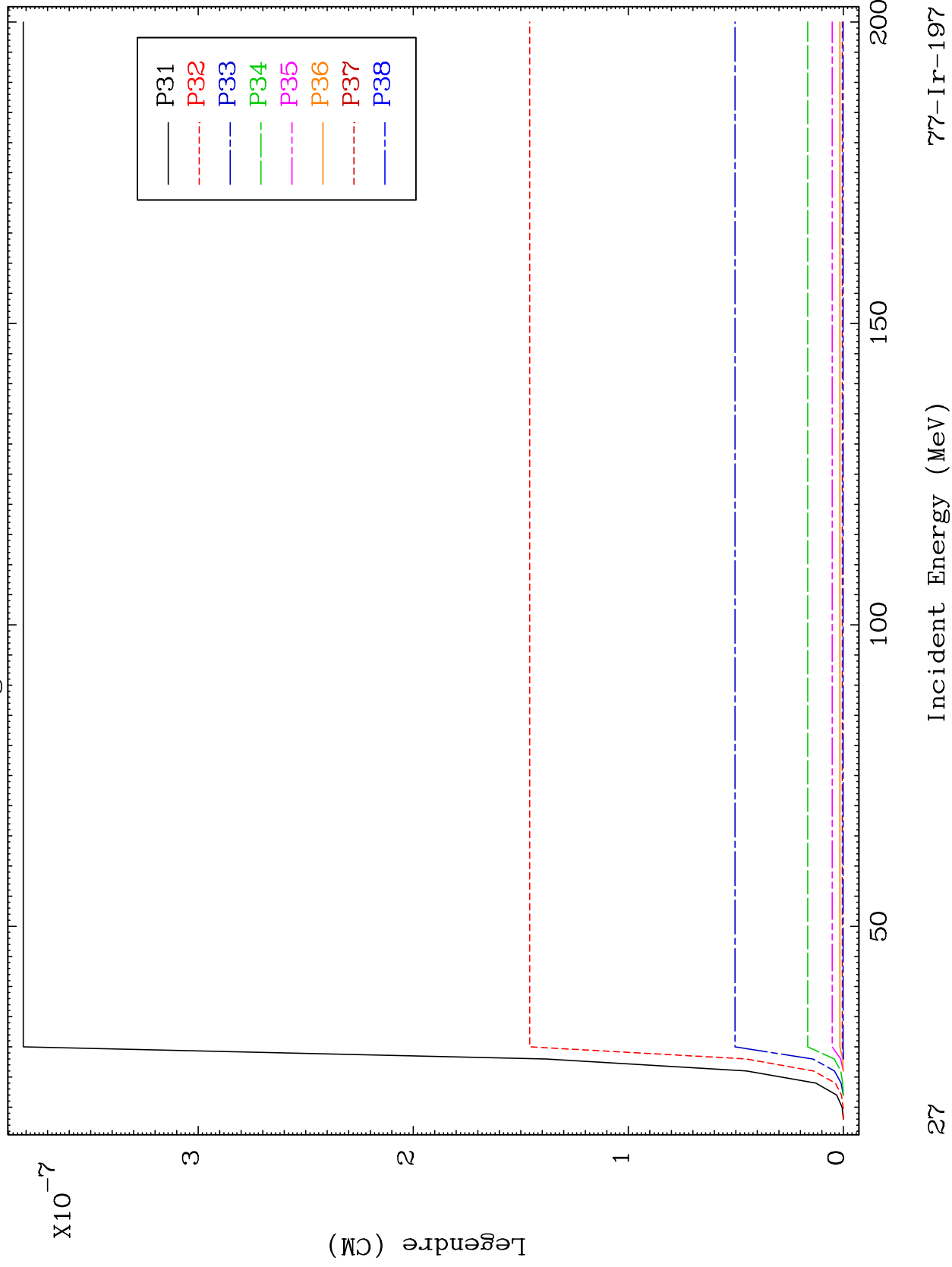
26

77-Ir-197

MAT 7743

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

77-Ir-197



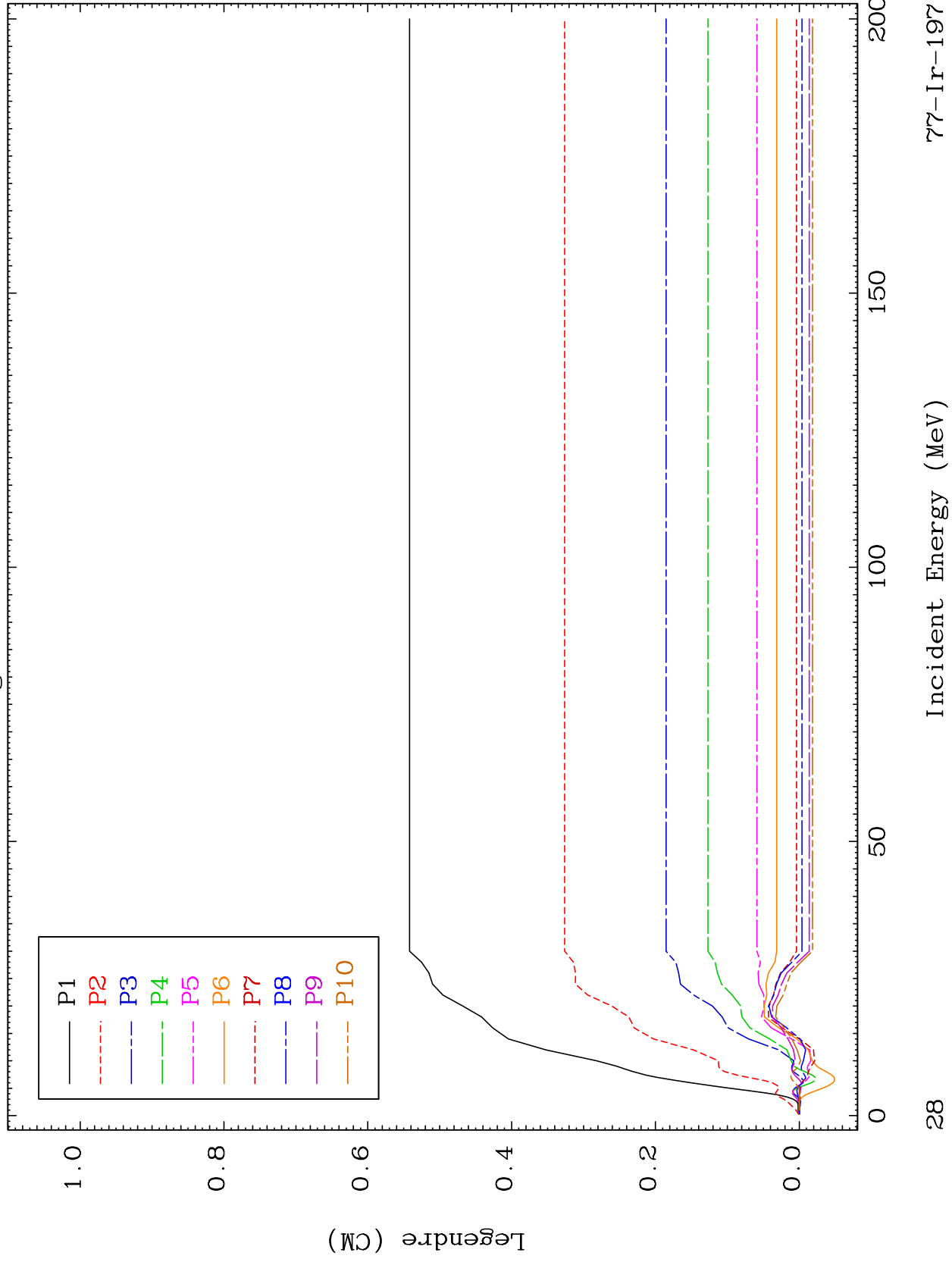
27

77-Ir-197

MAT 7743

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

77-Ir-197



77-Ir-197

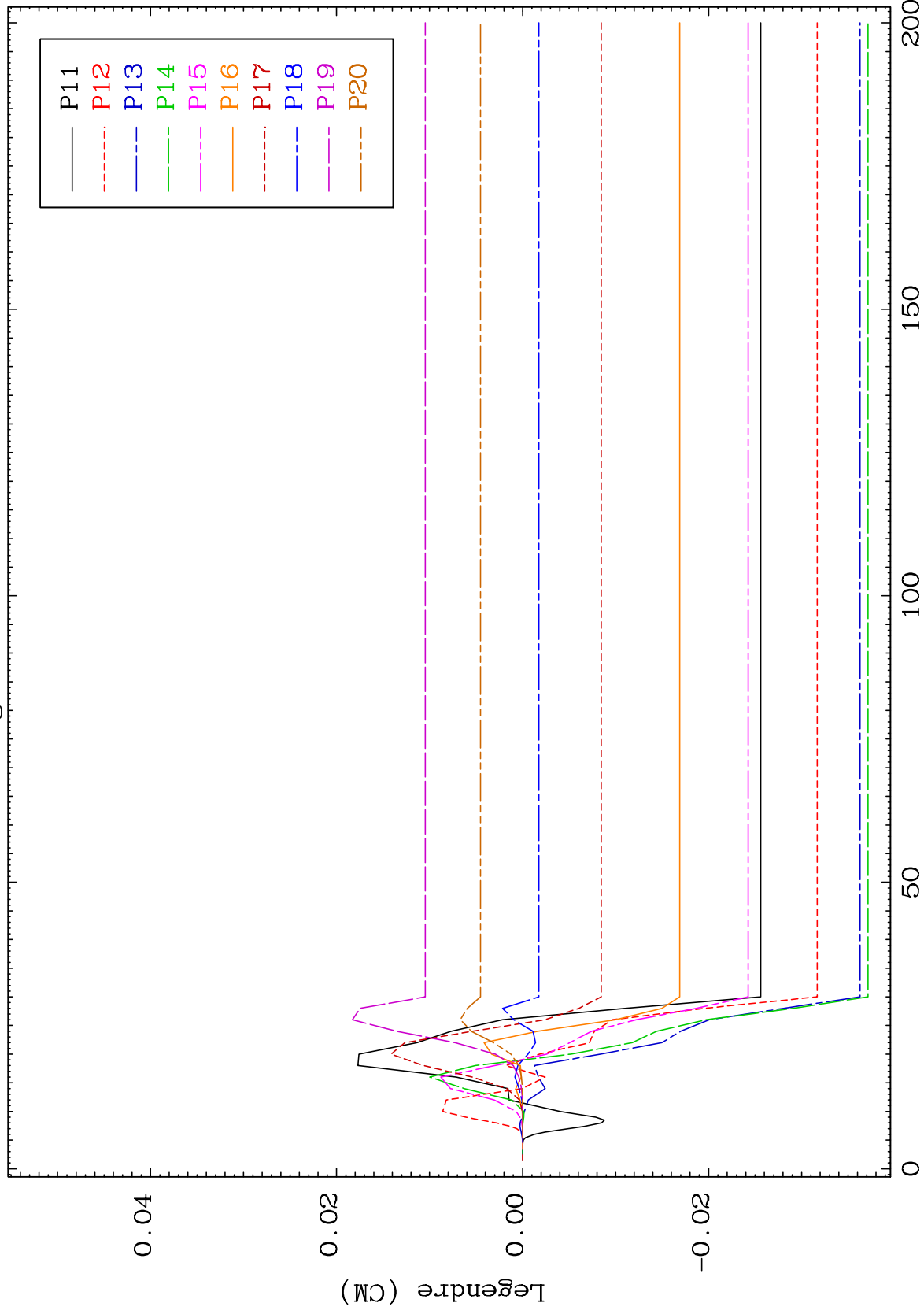
Incident Energy (MeV)

28

MAT 7743

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

77-Ir-197



29

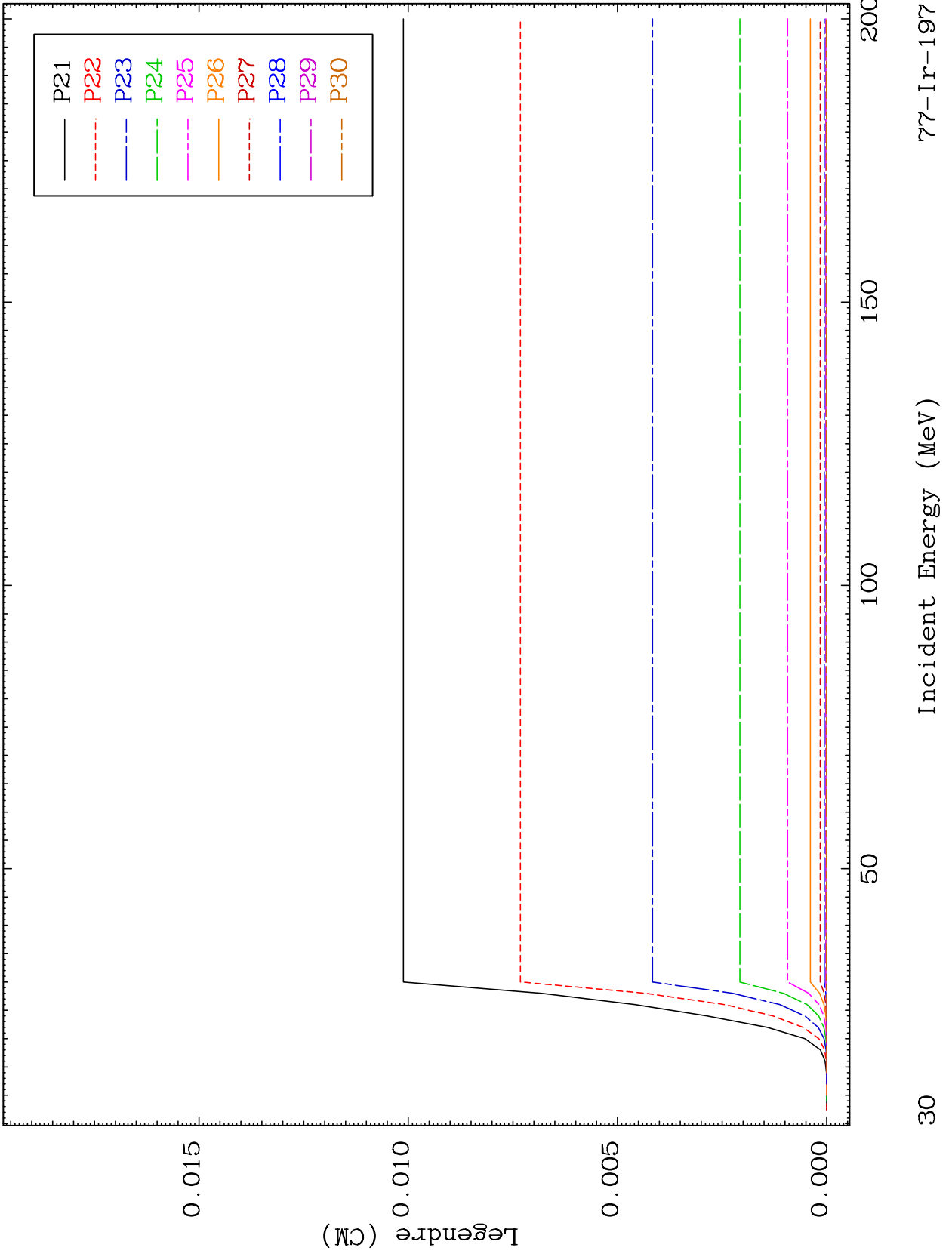
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

77-Ir-197

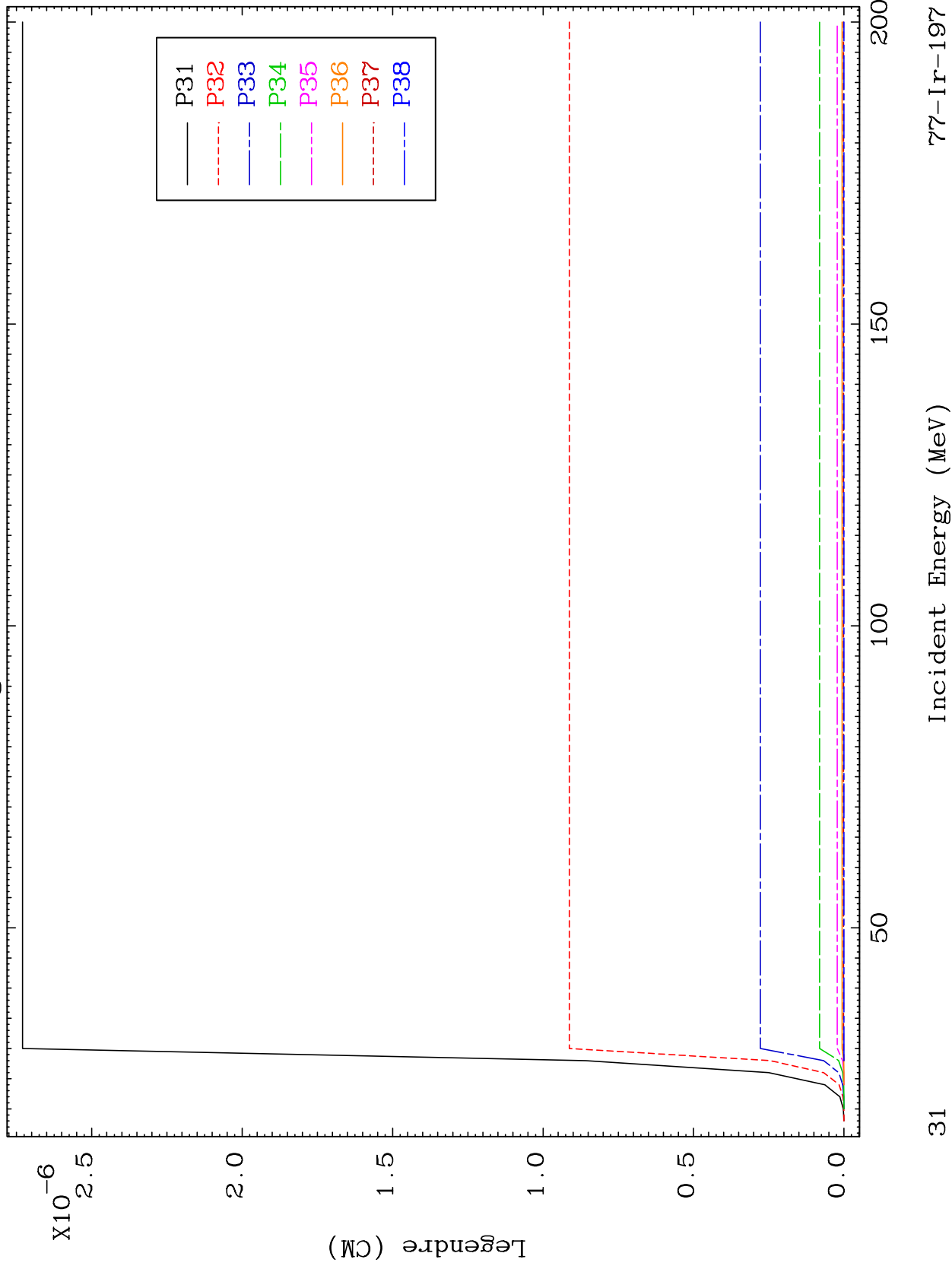


77-Ir-197

MAT 7743

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

77-Ir-197



31

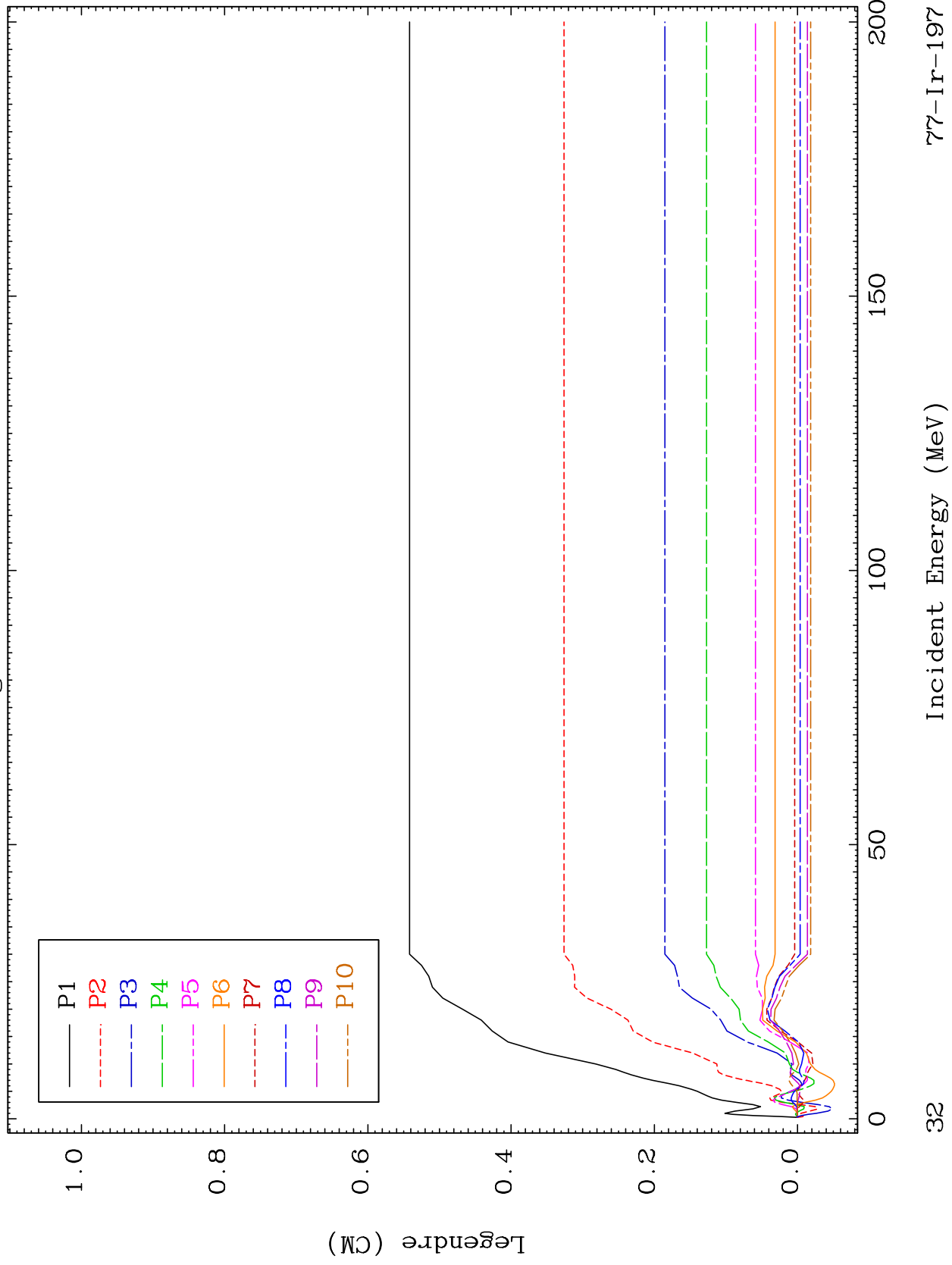
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

77-Ir-197



77-Ir-197

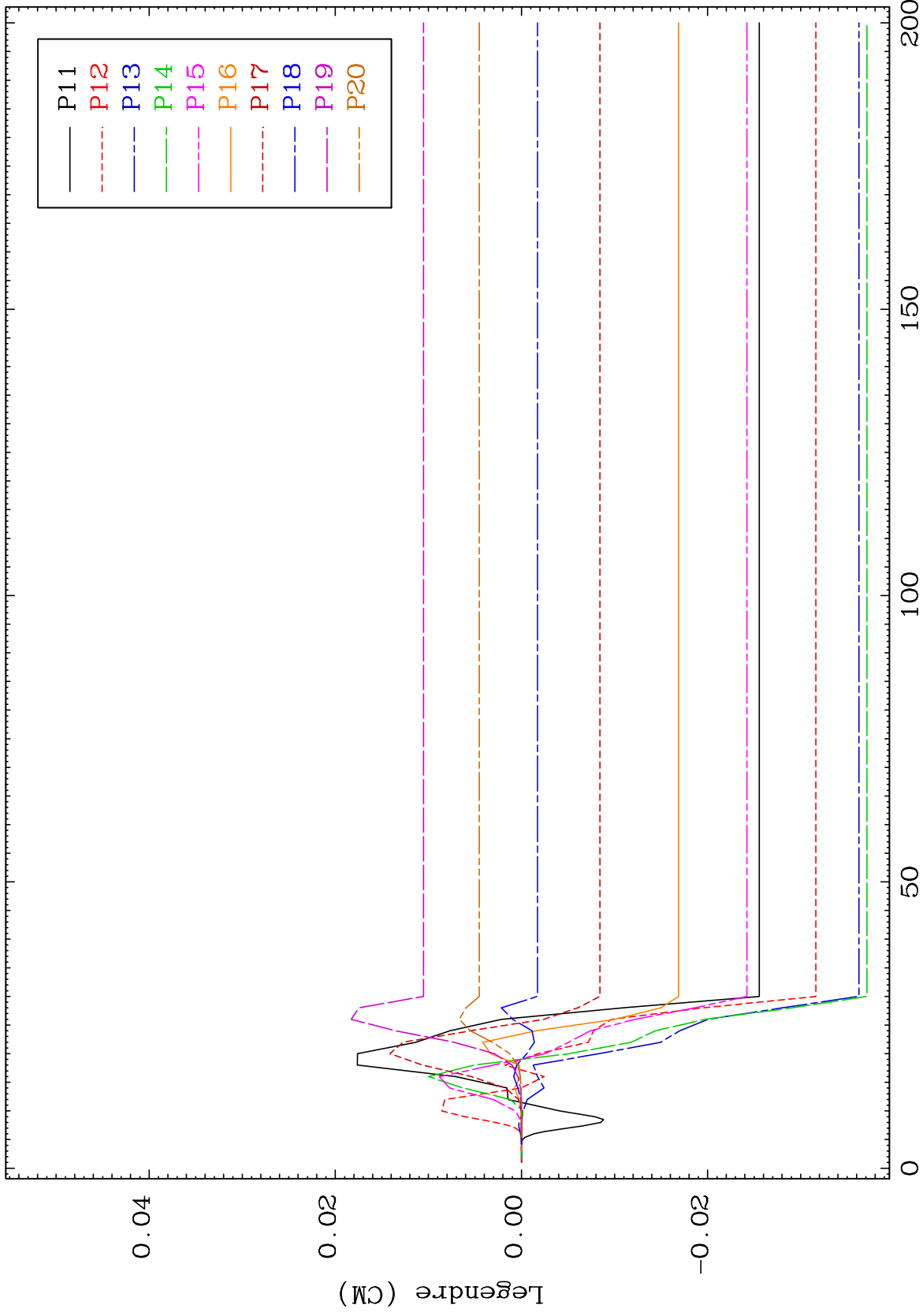
Incident Energy (MeV)

32

MAT 7743

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

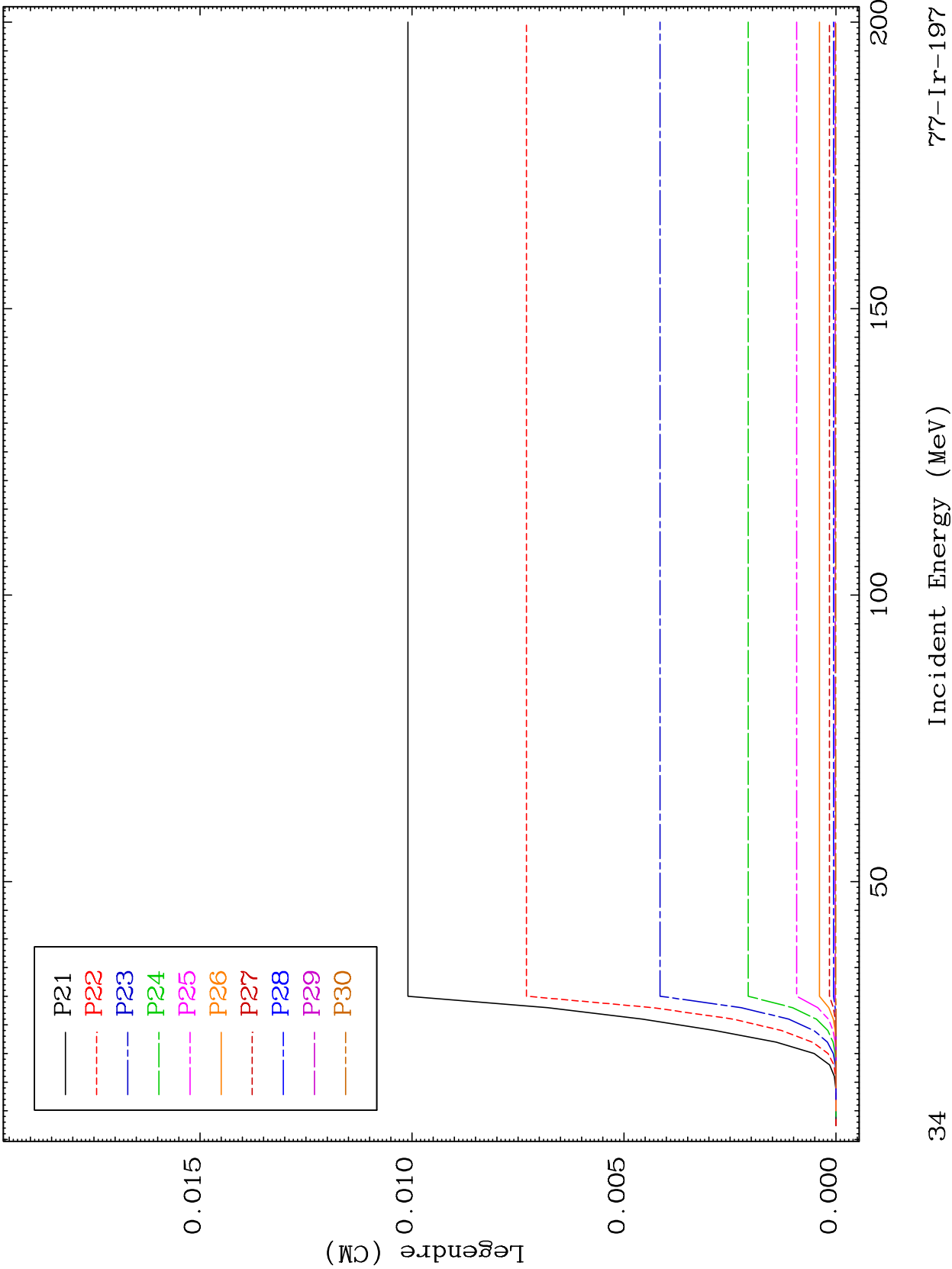
77-Ir-197



33

Incident Energy (MeV)

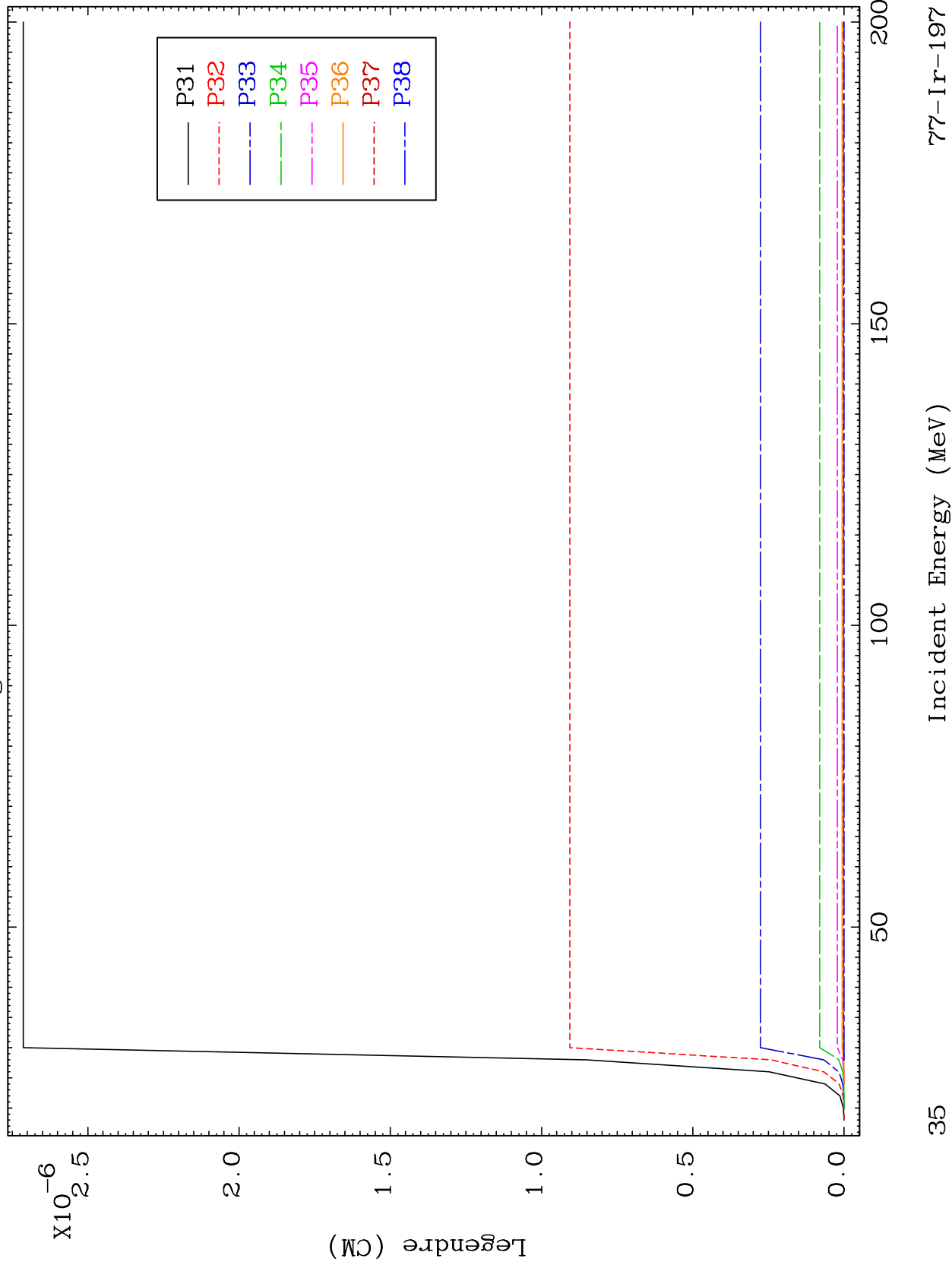
77-Ir-197



MAT 7743

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

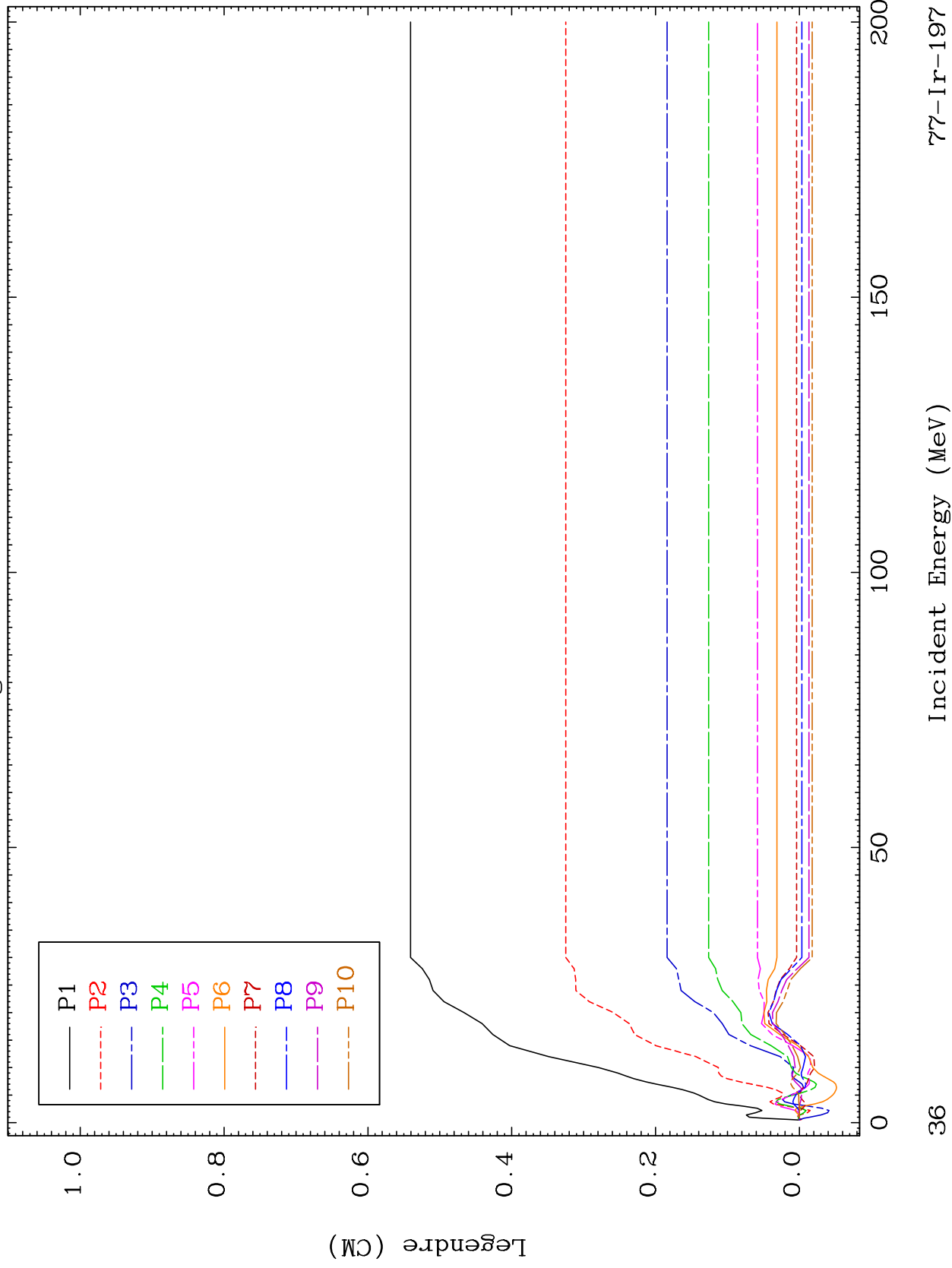
77-Ir-197



35

Incident Energy (MeV)

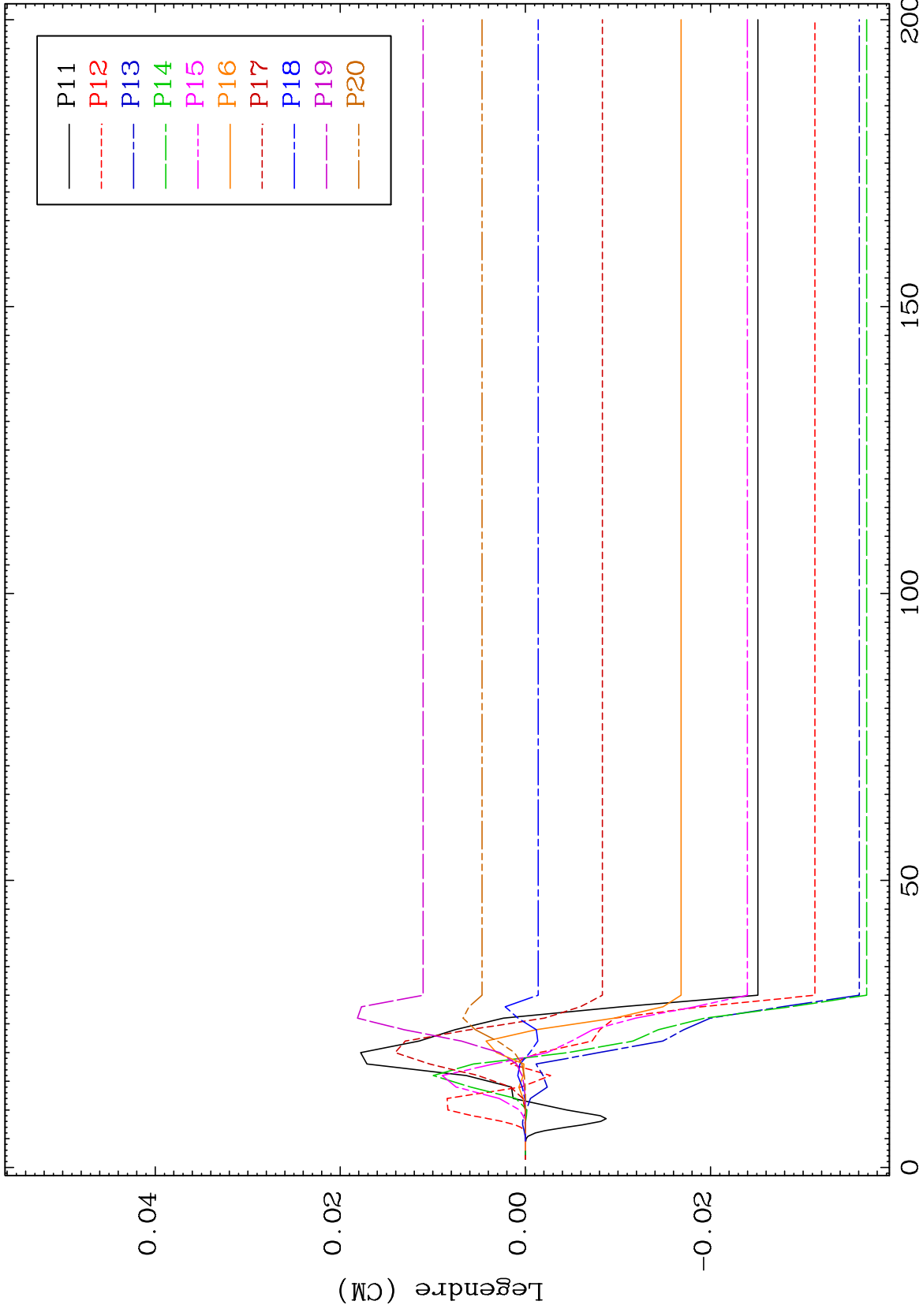
77-Ir-197



MAT 7743

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

77-Ir-197



37

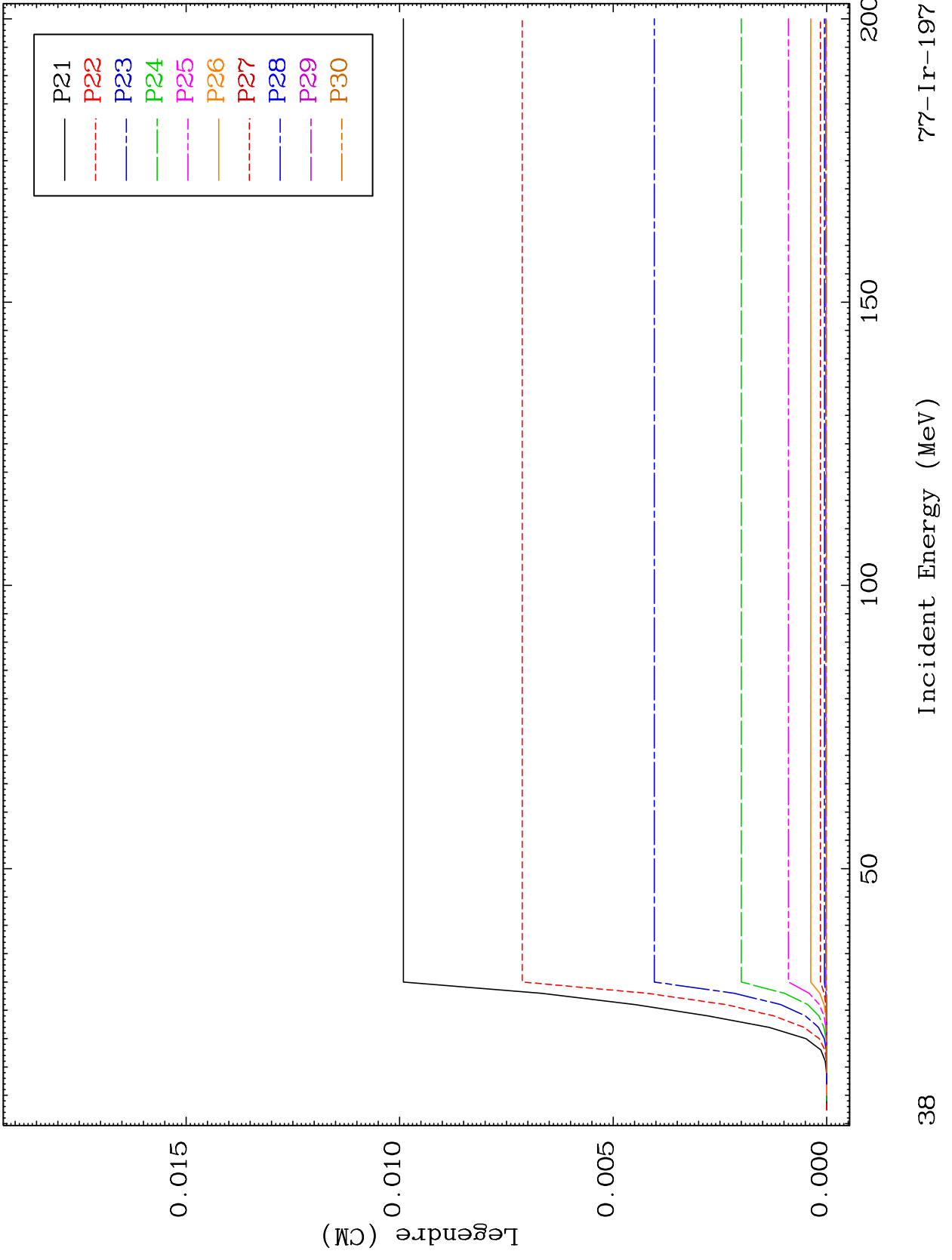
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

77-Ir-197



38

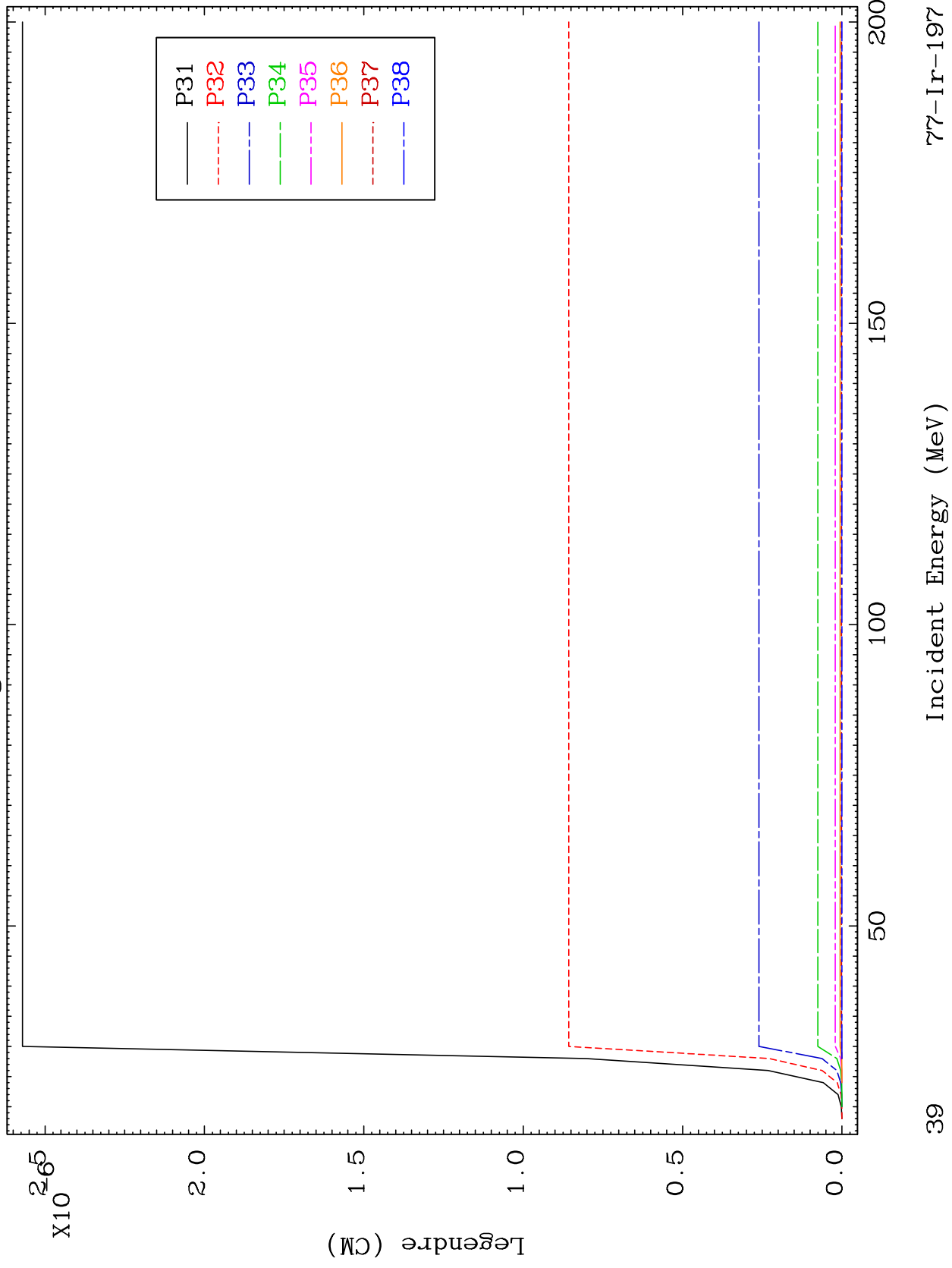
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

77-Ir-197



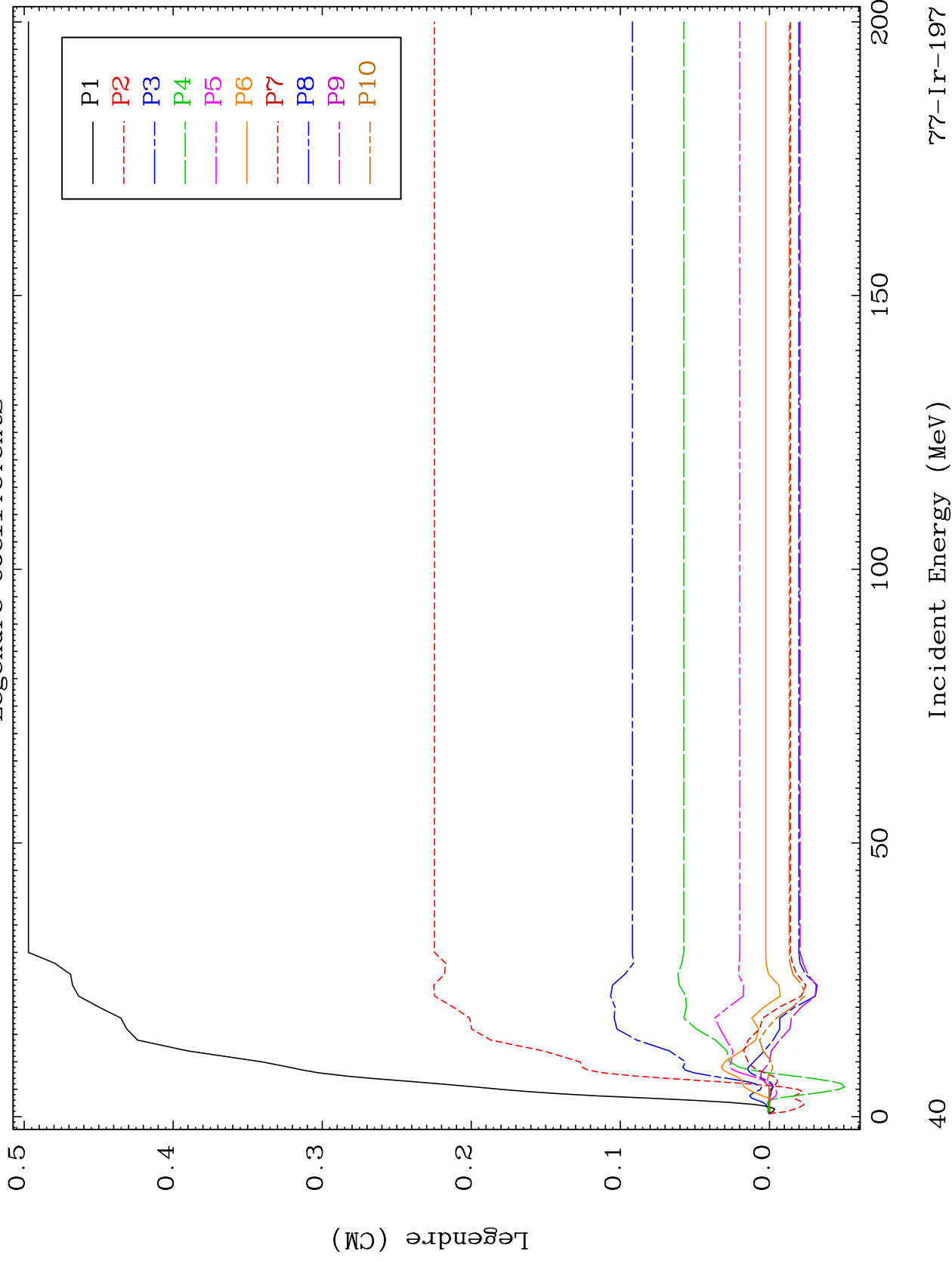
39

77-Ir-197

MAT 7743

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

77-Ir-197

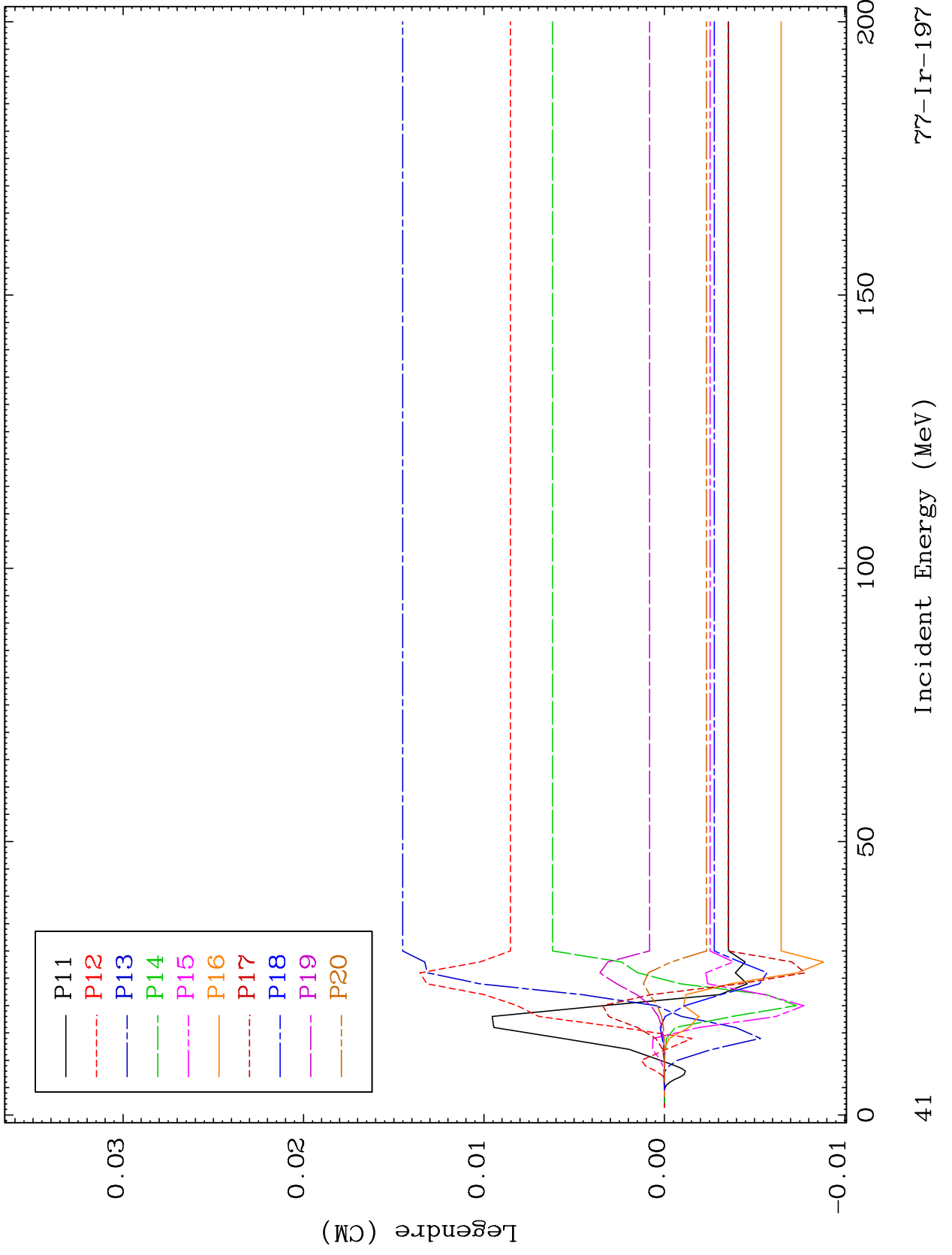


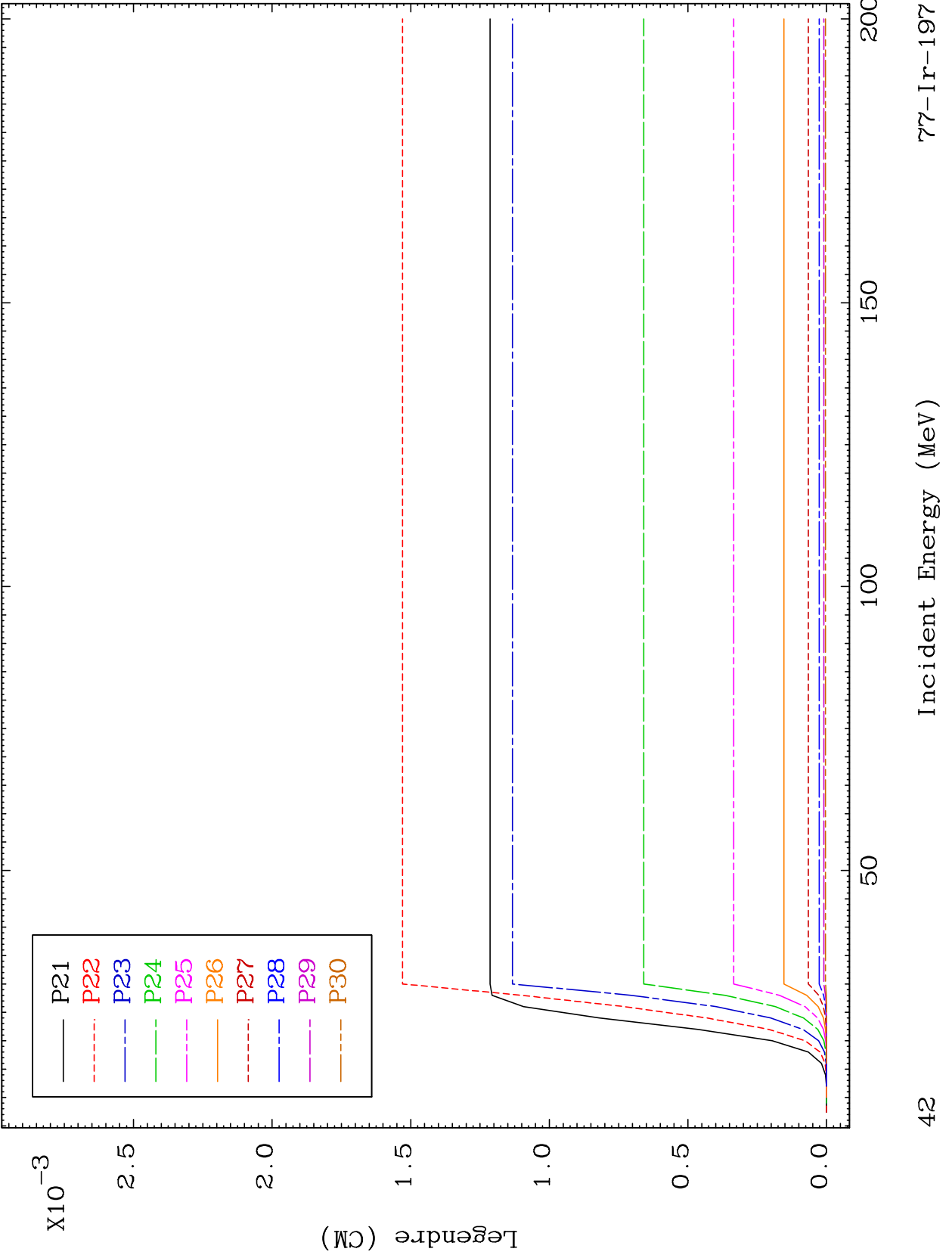
77-Ir-197

MAT 7743

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

77-Ir-197

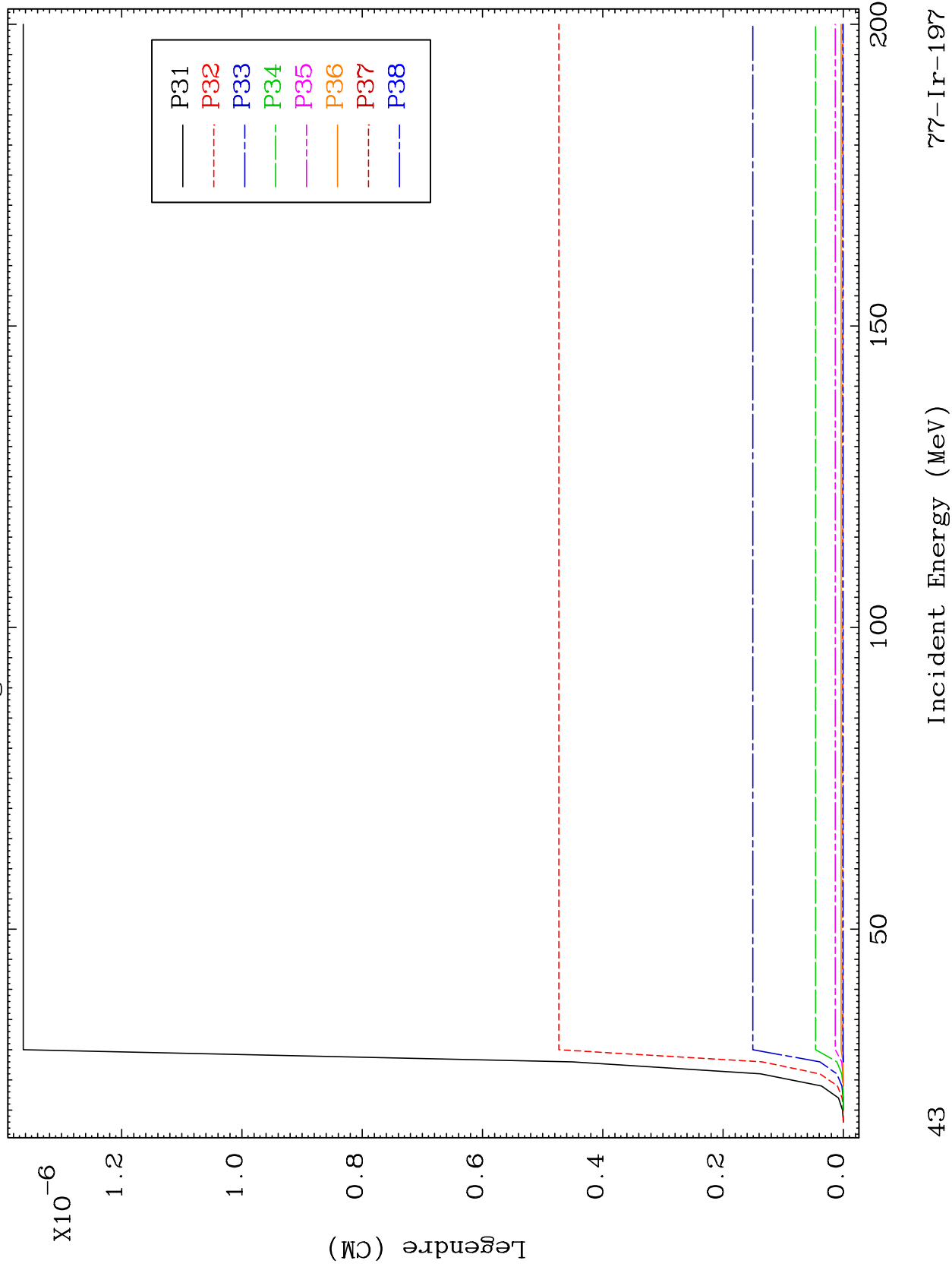




MAT 7743

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

77-Ir-197



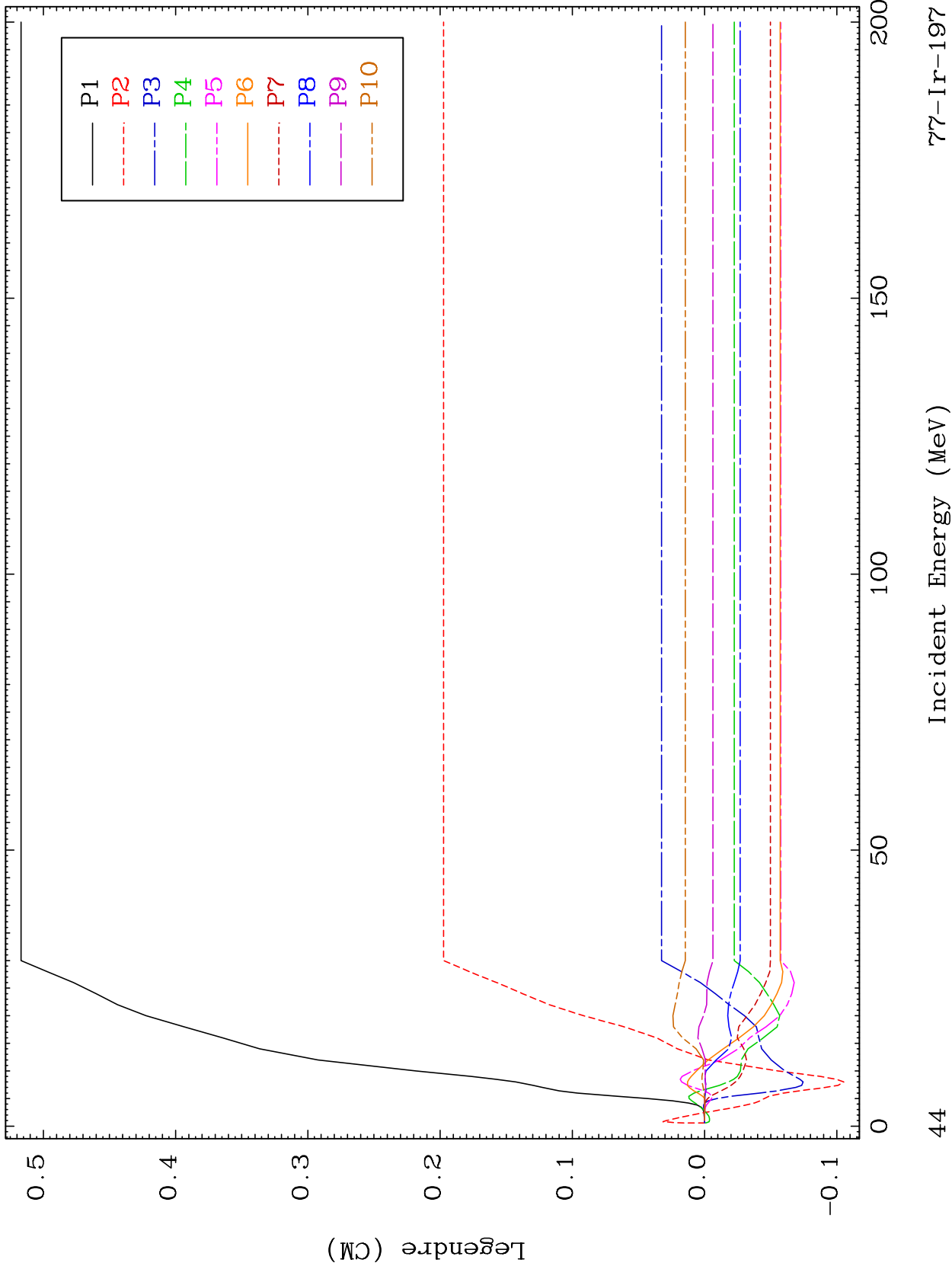
43

77-Ir-197

MAT 7743

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

77-Ir-197



77-Ir-197

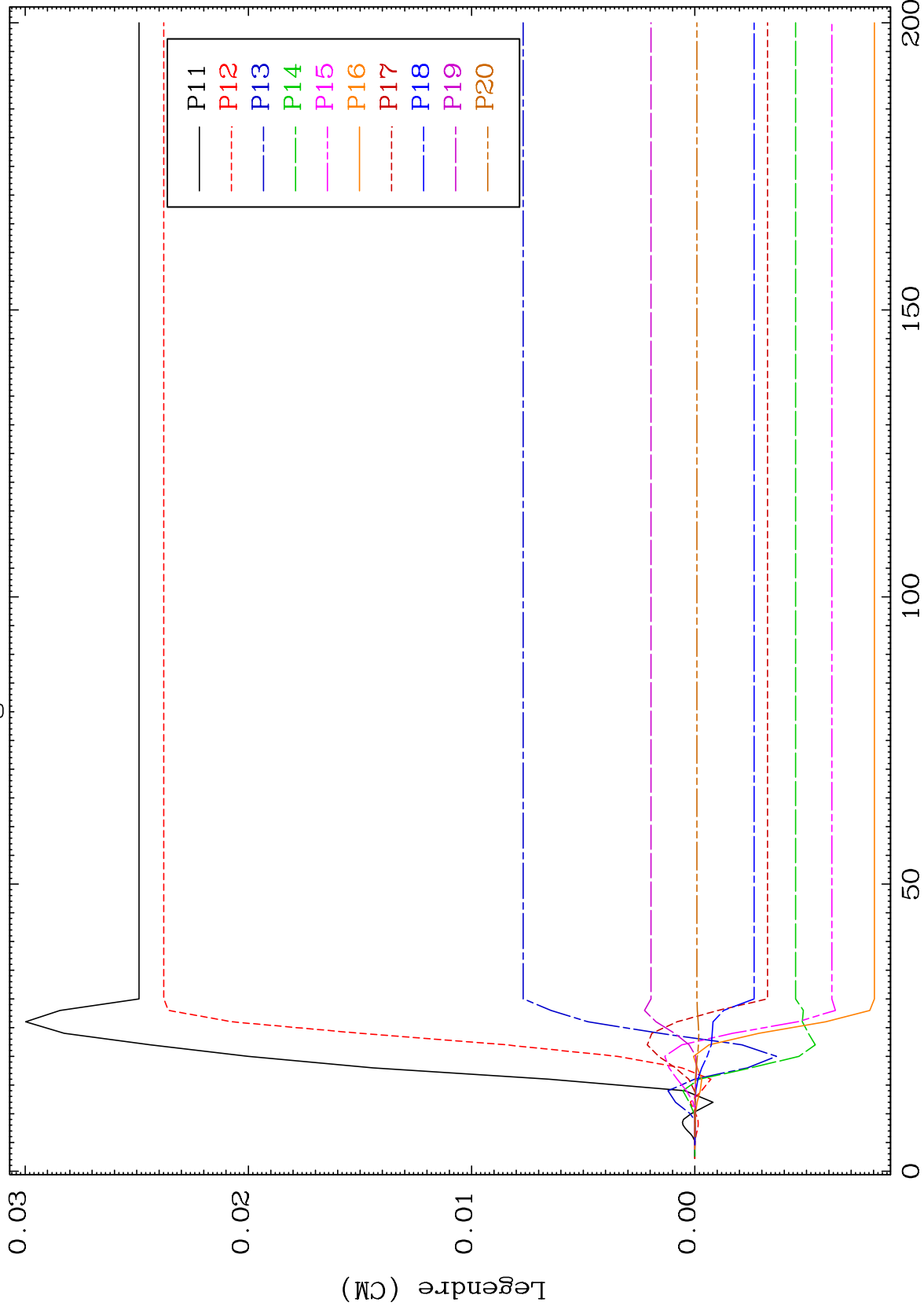
Incident Energy (MeV)

44

MAT 7743

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

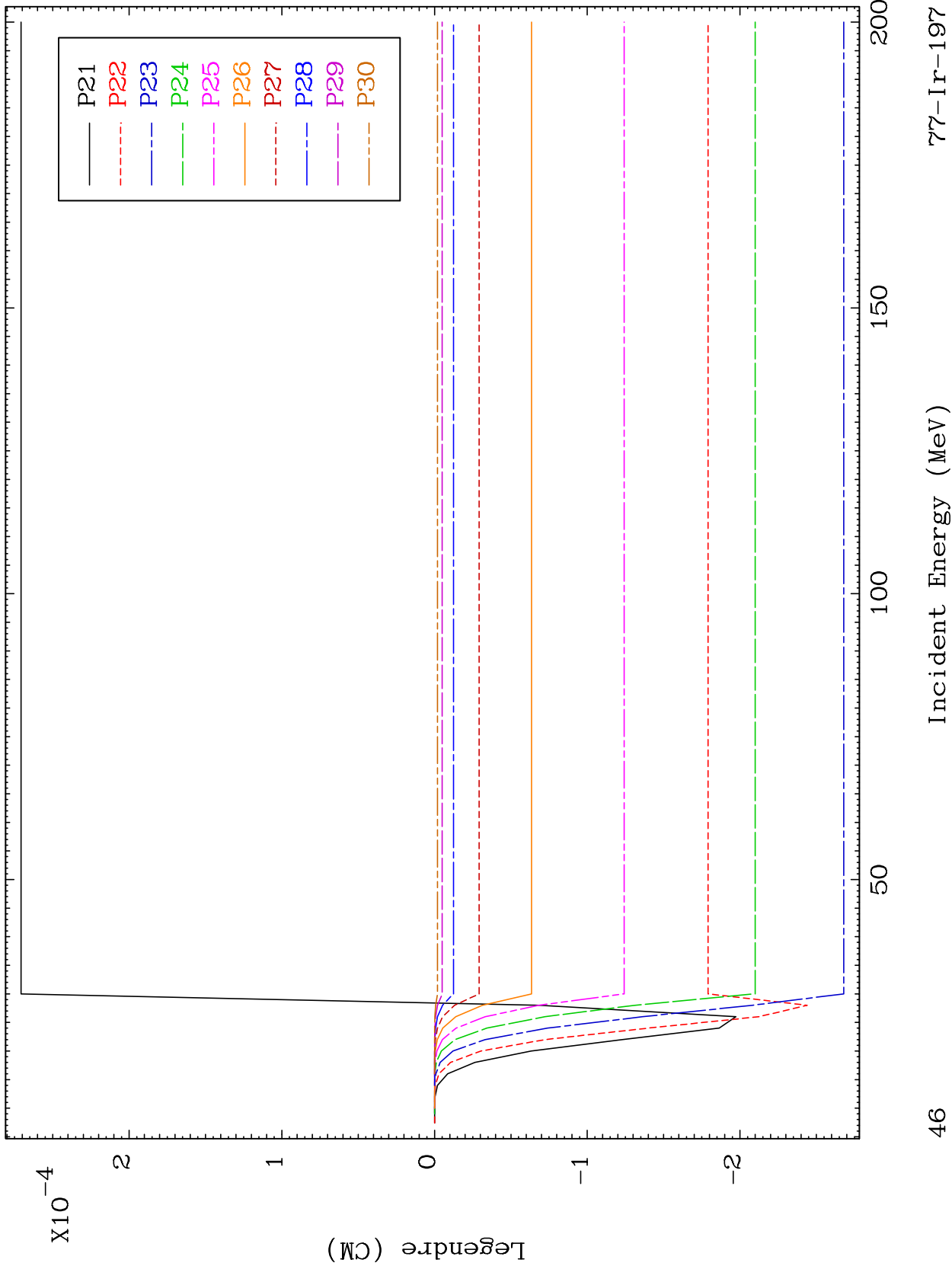
77-Ir-197



45

Incident Energy (MeV)

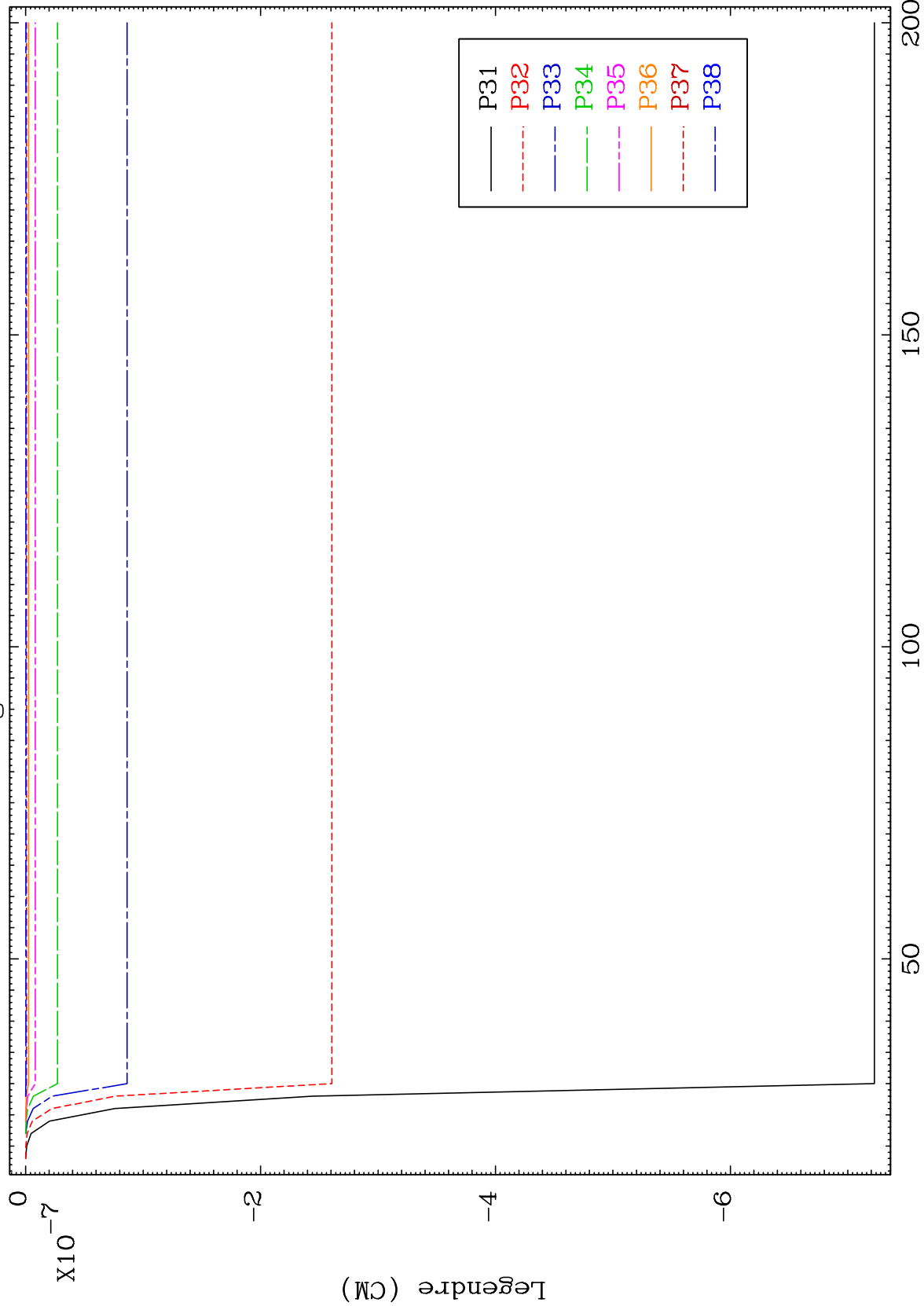
77-Ir-197



MAT 7743

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

77-Ir-197



77-Ir-197

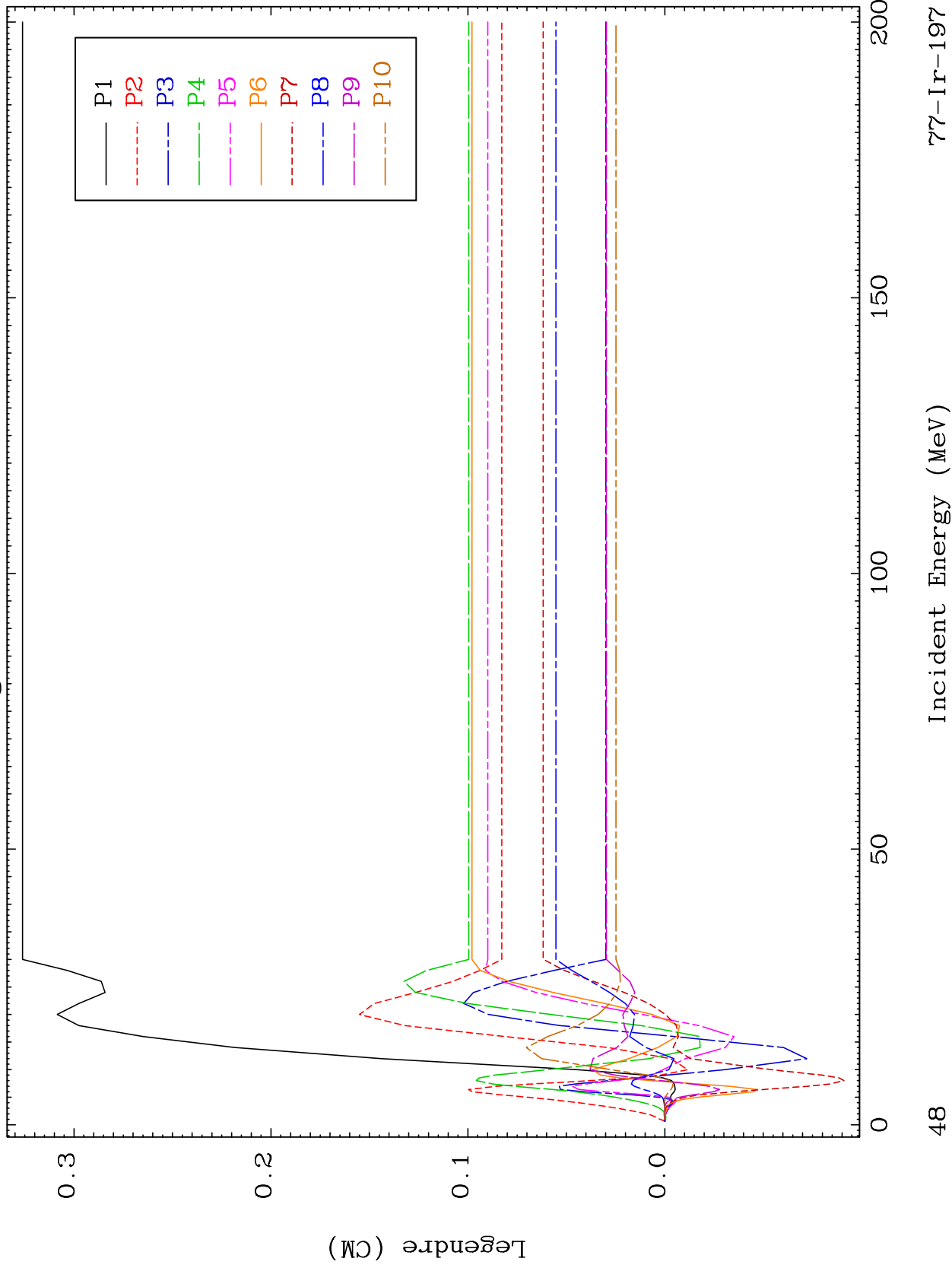
Incident Energy (MeV)

47

MAT 7743

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

77-Ir-197



77-Ir-197

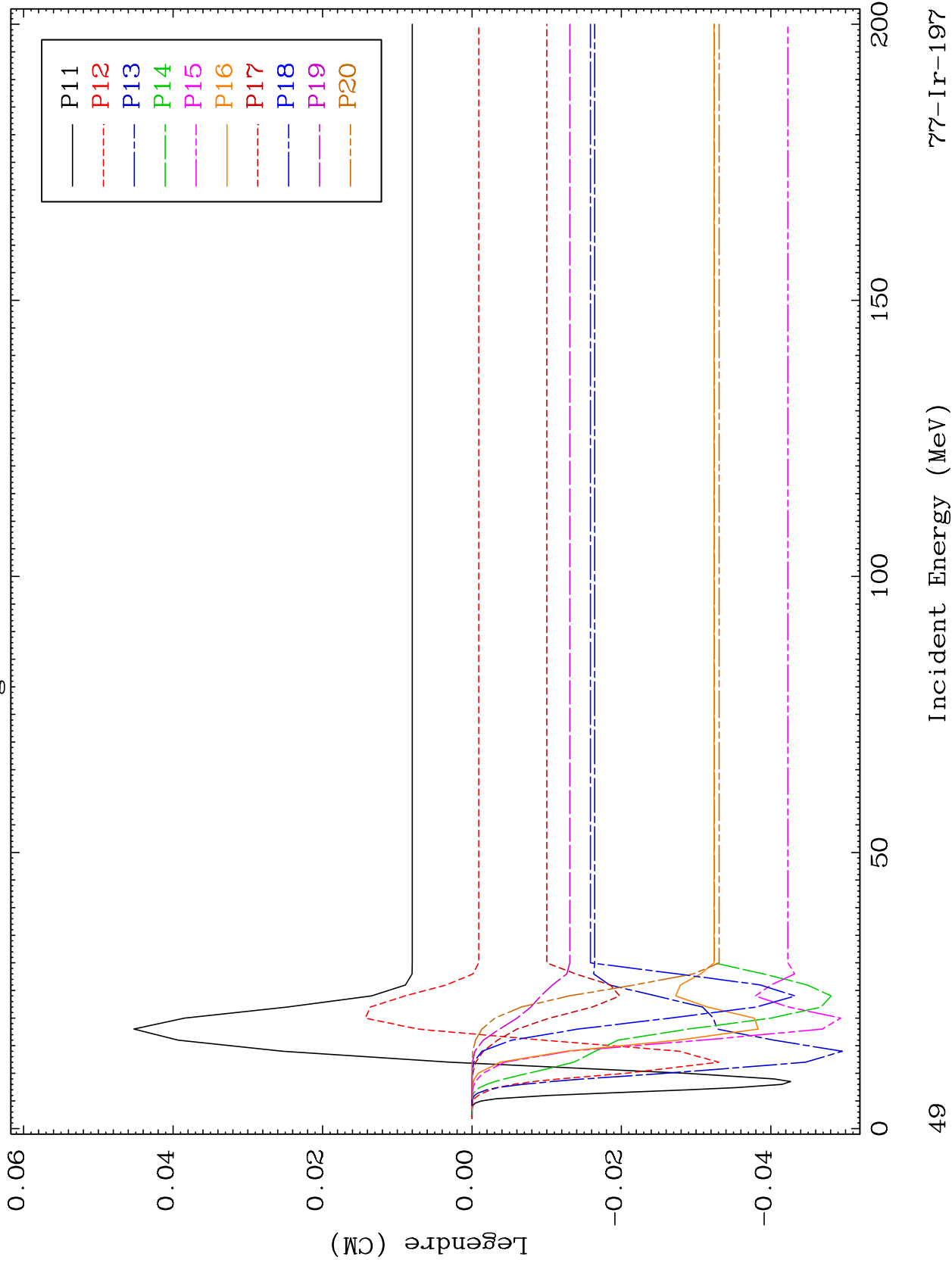
Incident Energy (MeV)

48

MAT 7743

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

77-Ir-197



77-Ir-197

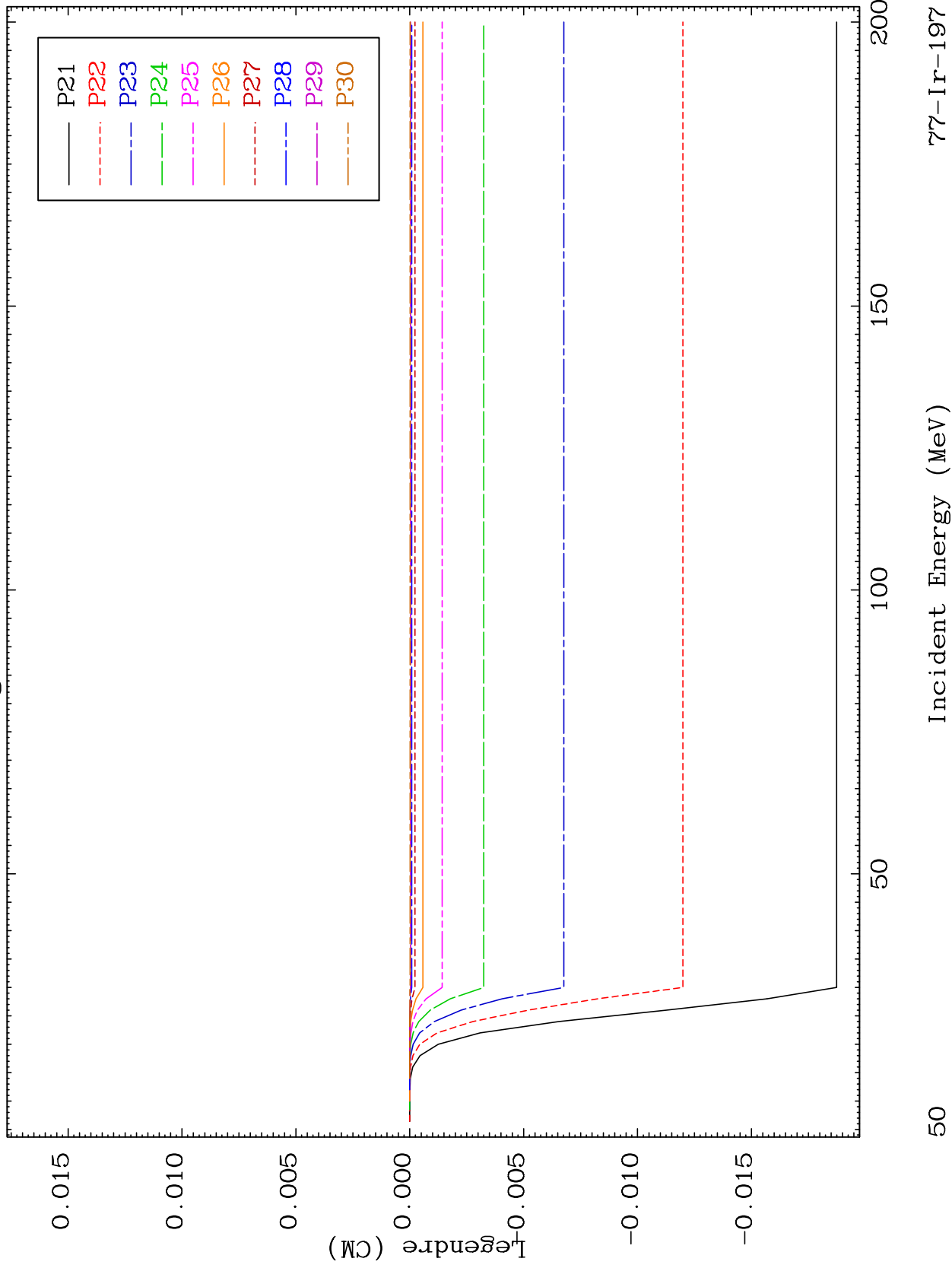
Incident Energy (MeV)

49

MAT 7743

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

77-Ir-197



77-Ir-197

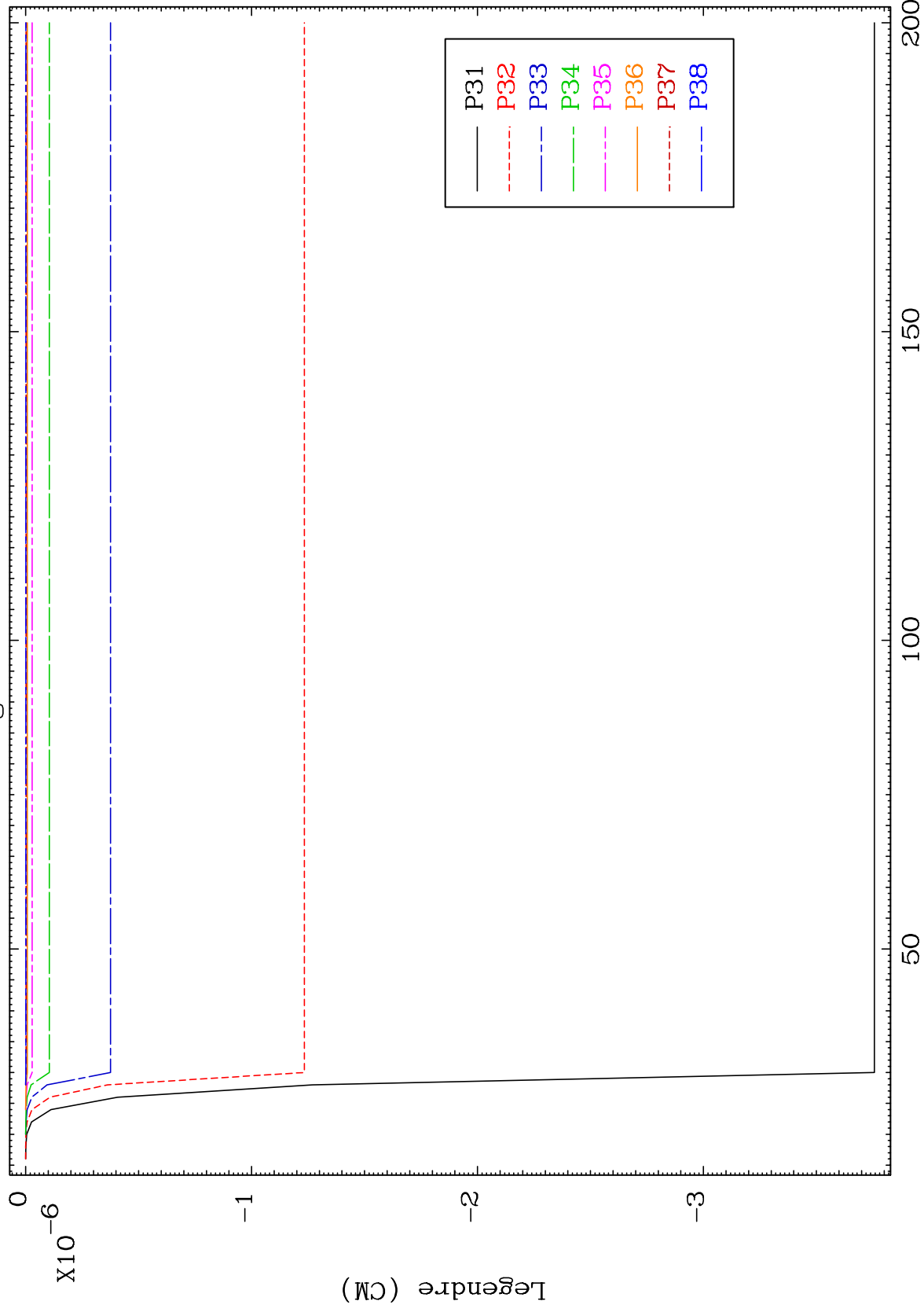
Incident Energy (MeV)

50

MAT 7743

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

77-Ir-197



51

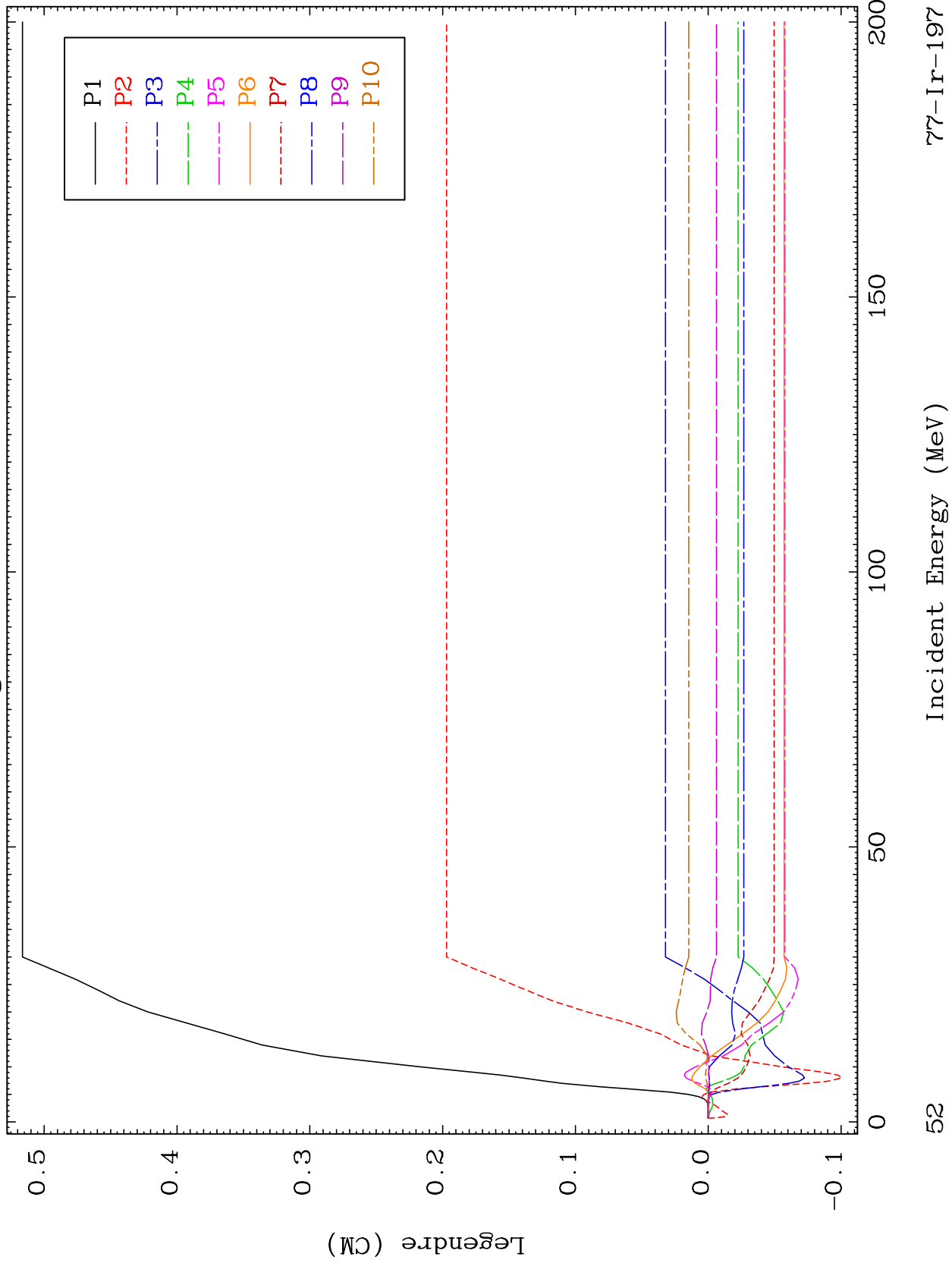
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

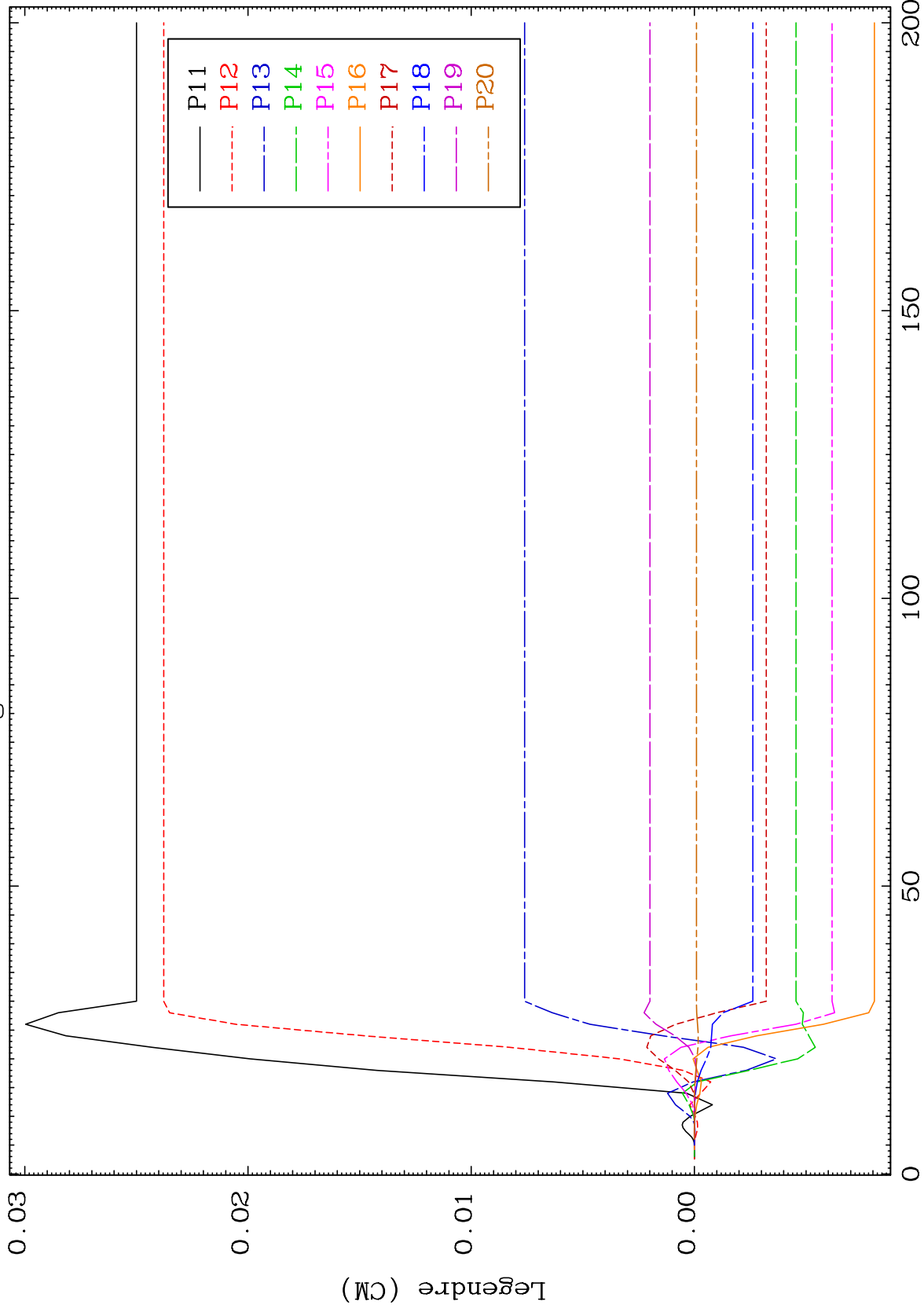
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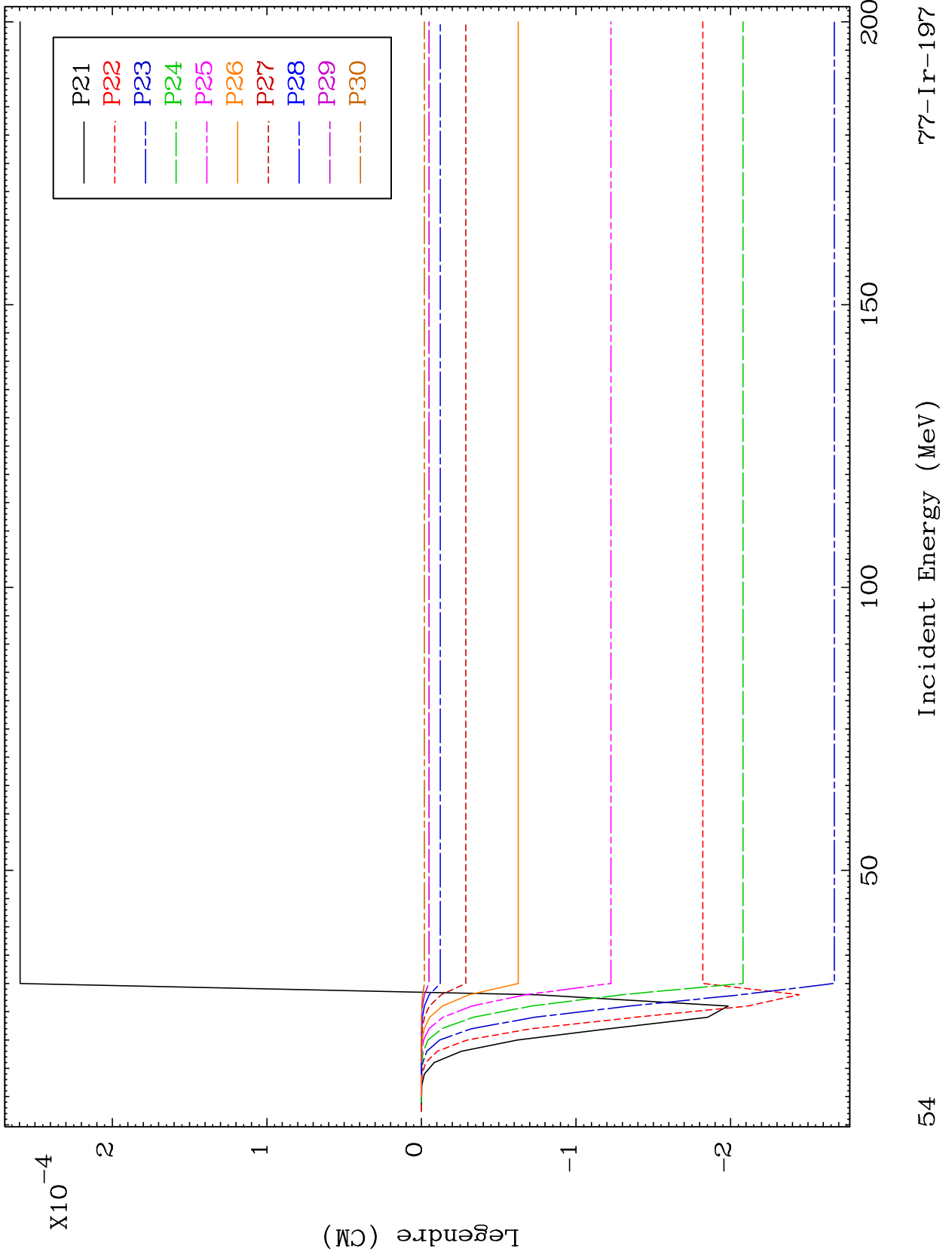


MAT 7743

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

77-Ir-197

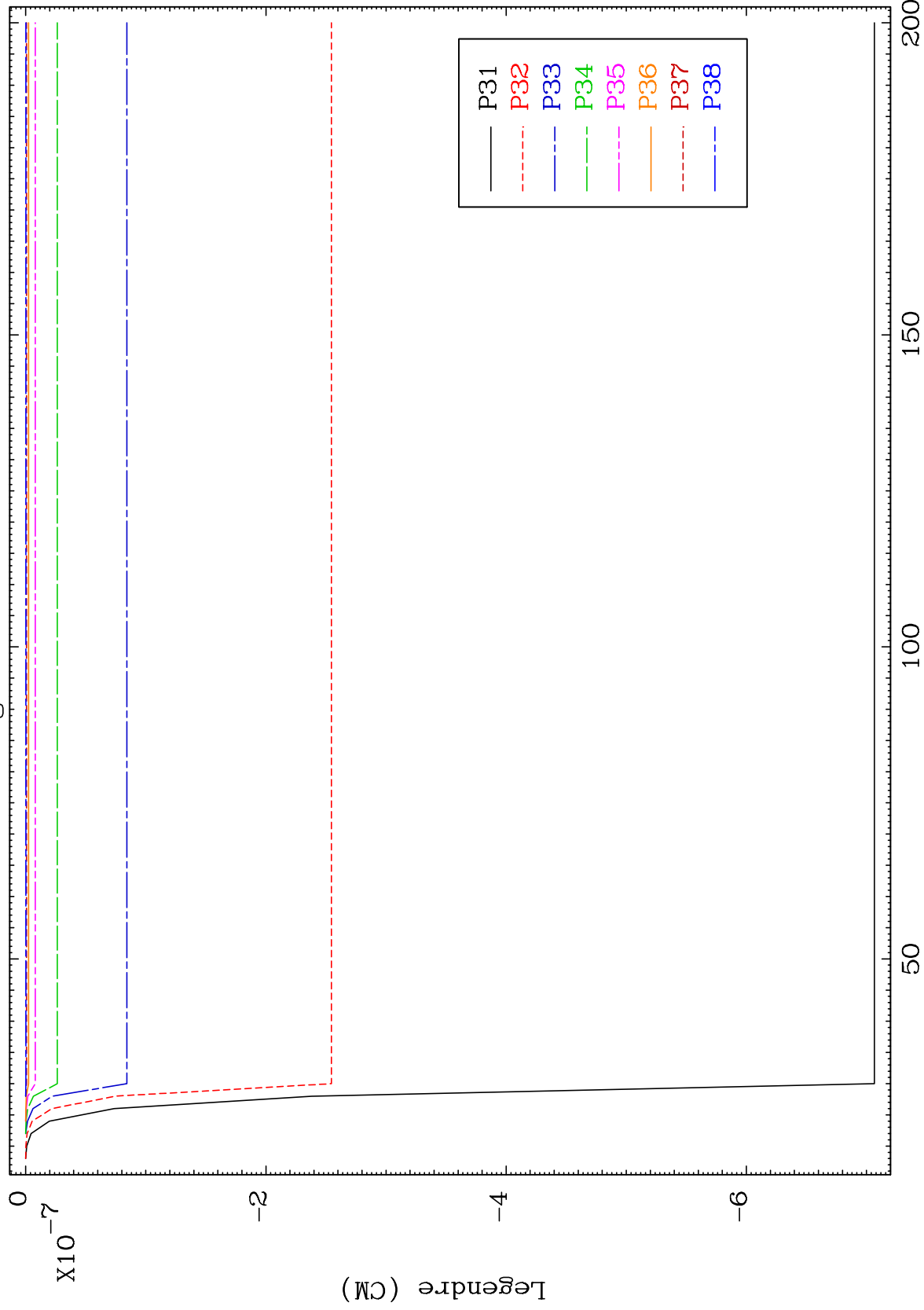




MAT 7743

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

77-Ir-197



55

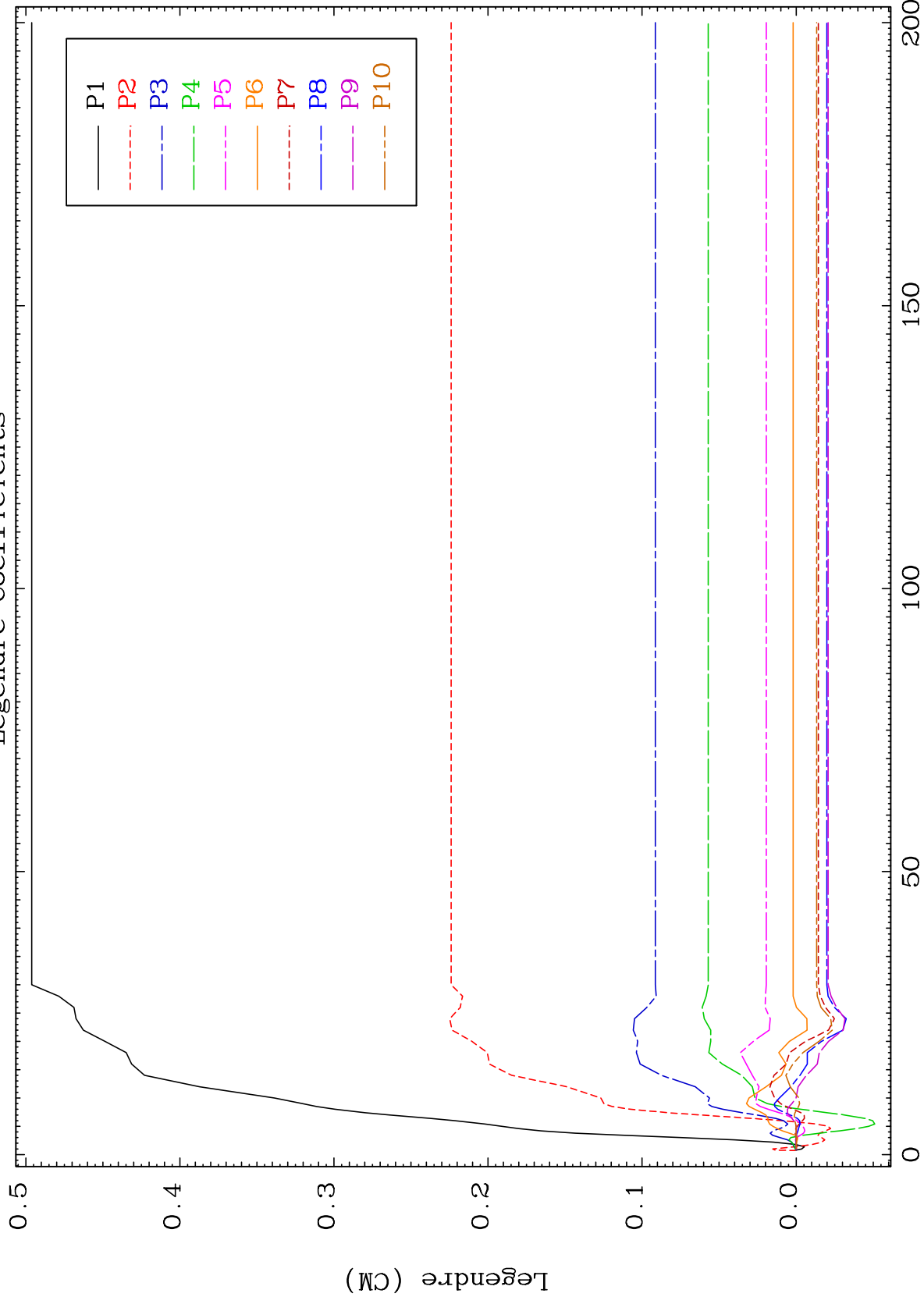
Incident Energy (MeV)

77-Ir-197

MAT 7743

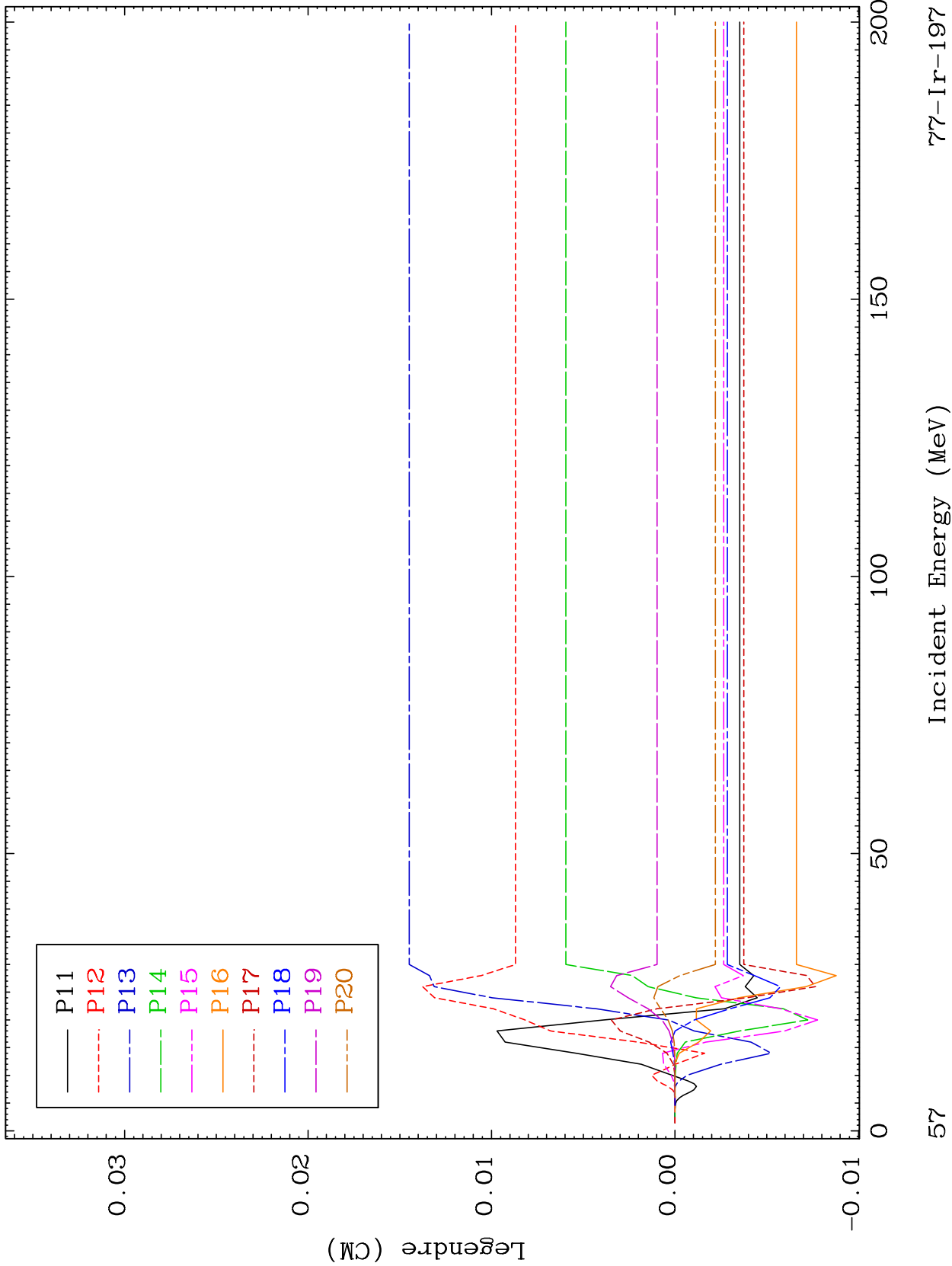
MT= 60 (n,n') Level
Legendre Coefficients

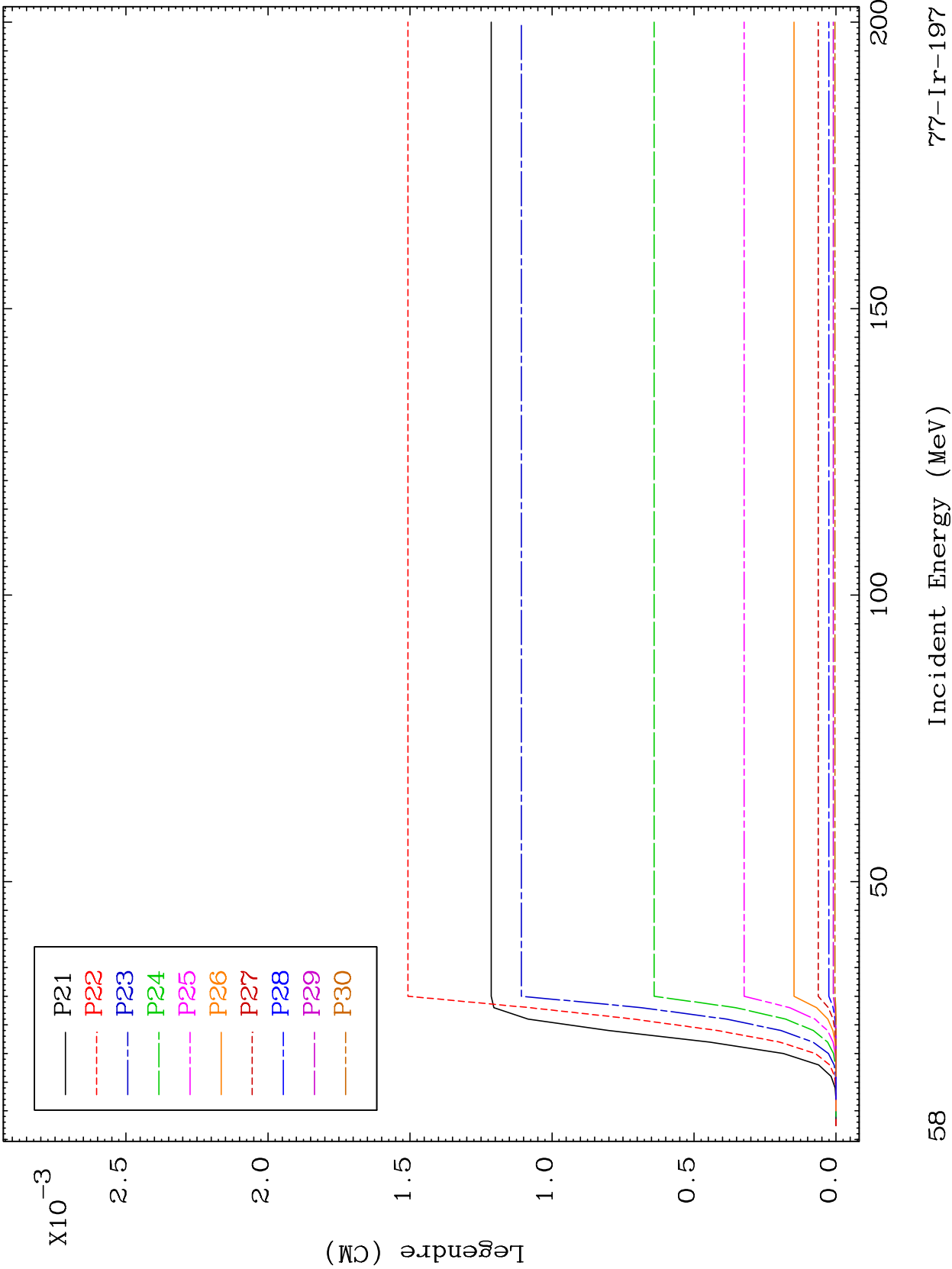
77-Ir-197

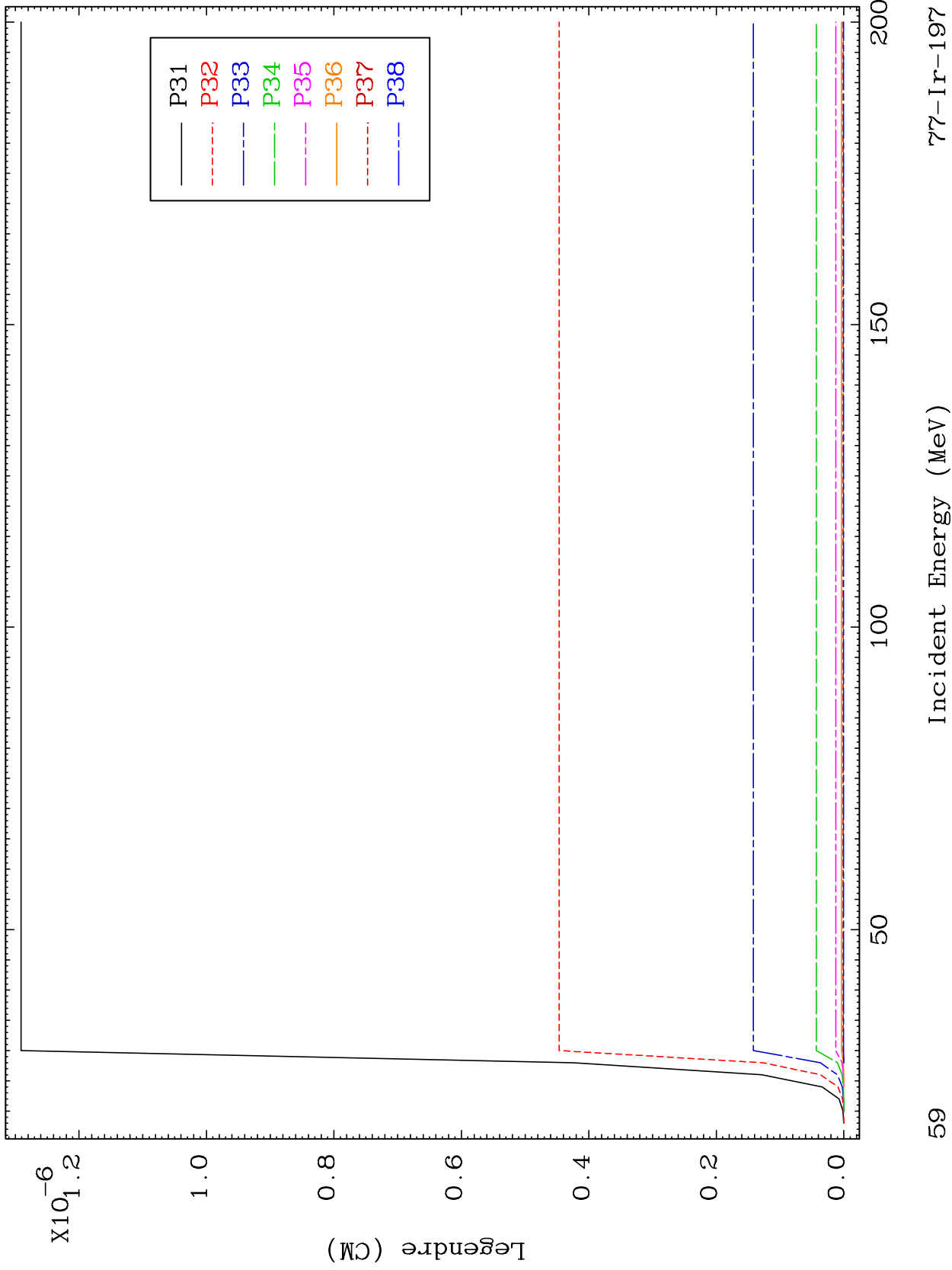


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77-Ir-197



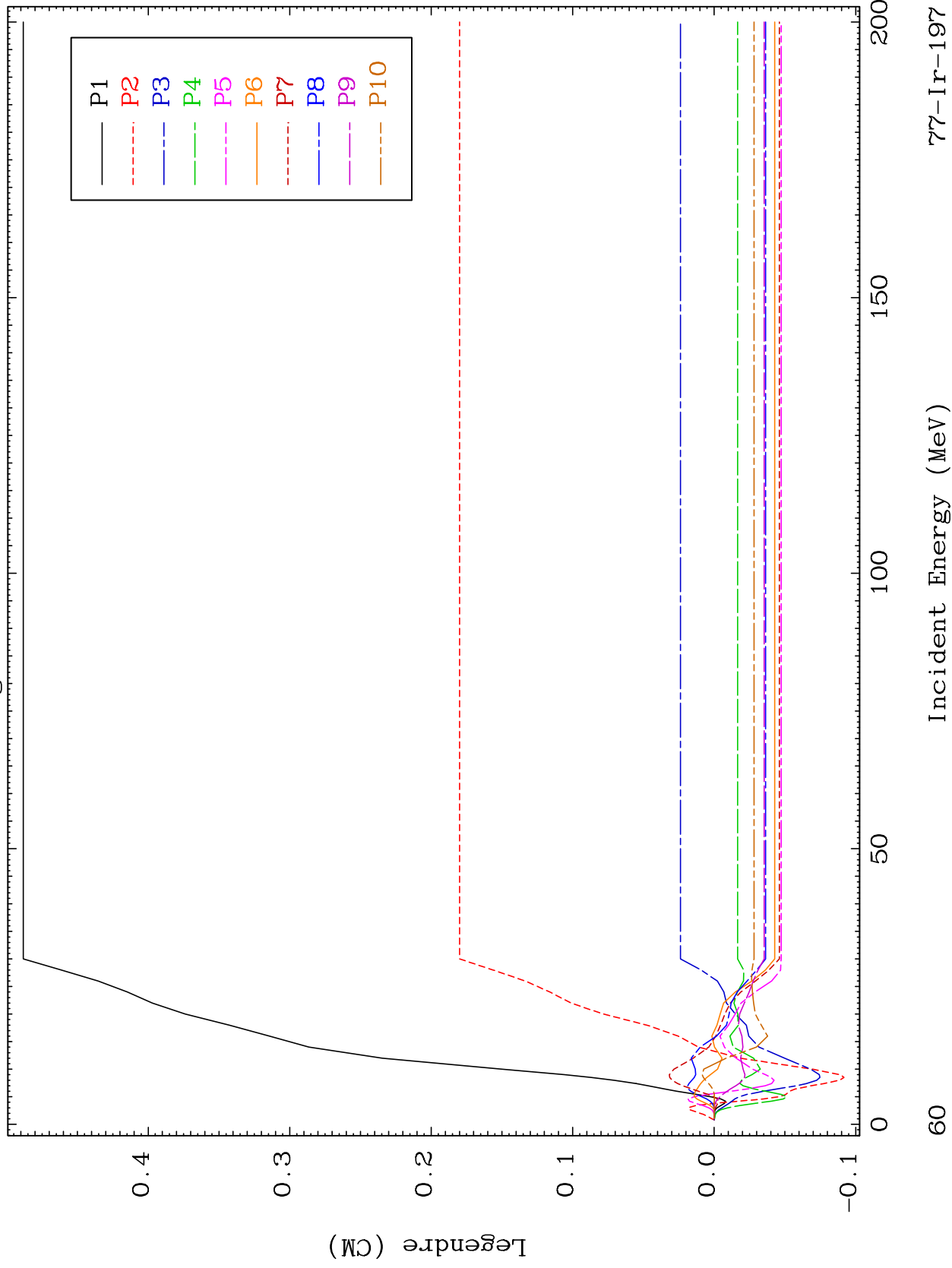




MAT 7743

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

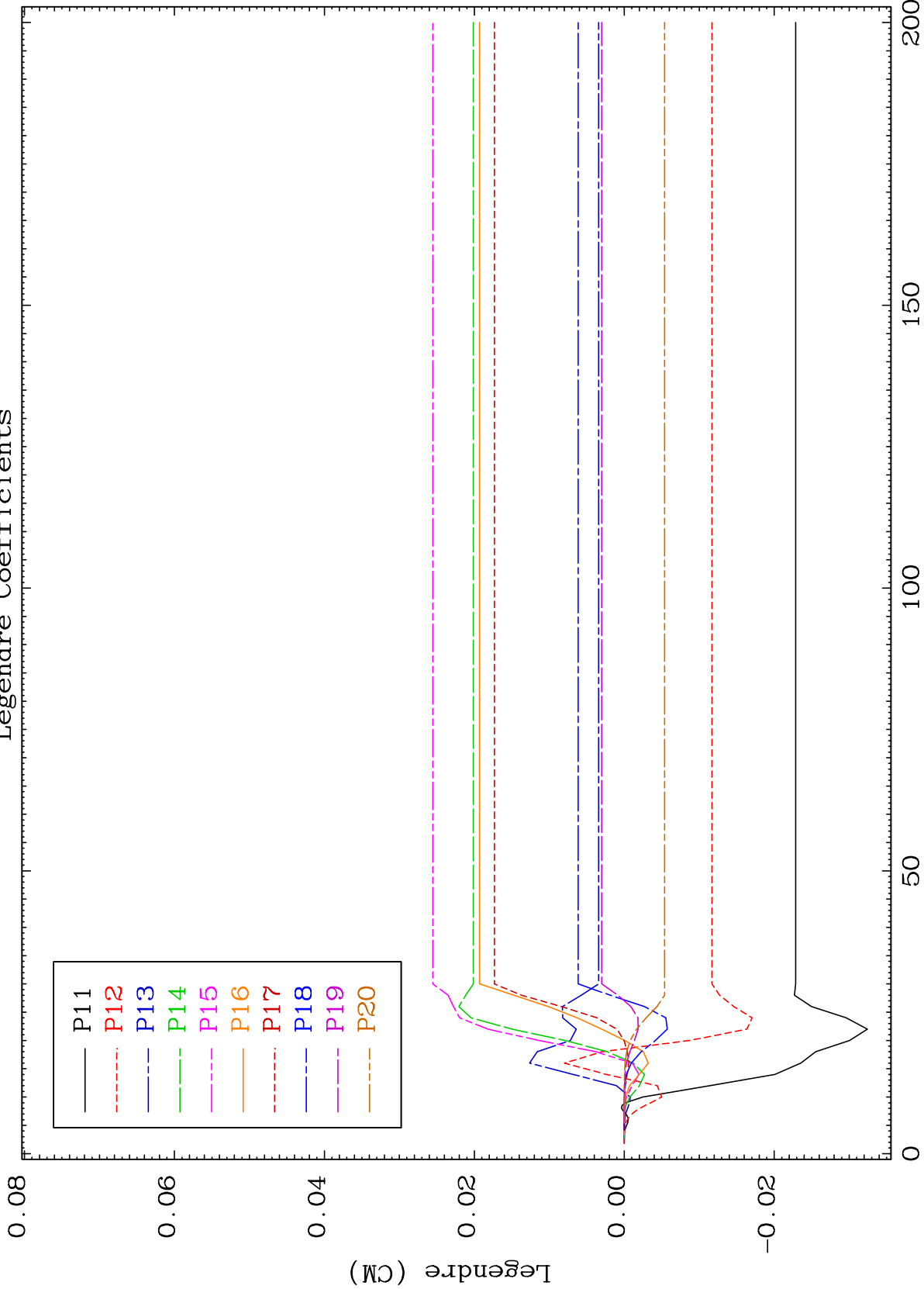
77-Ir-197



MAT 7743

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

77-Ir-197



61

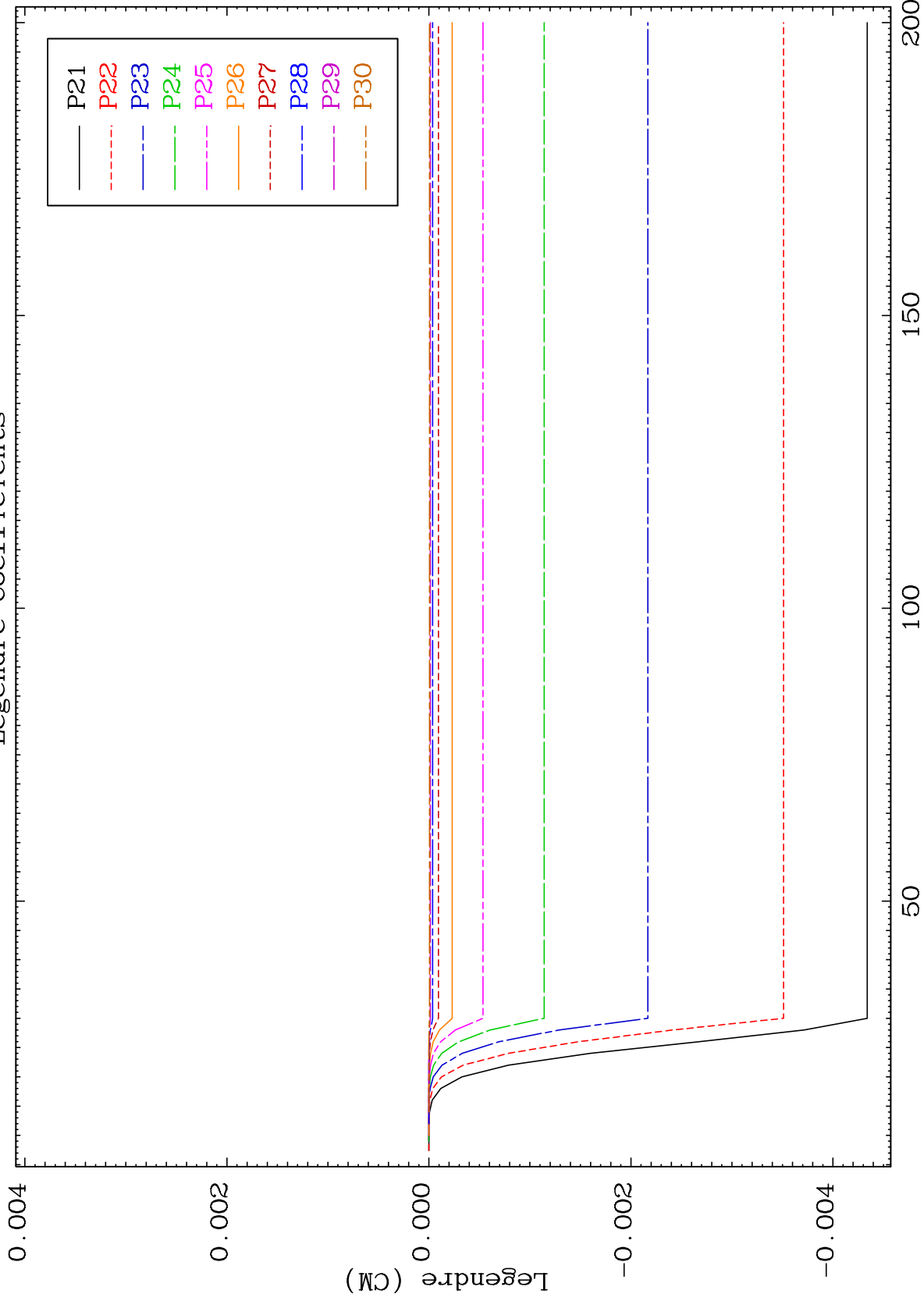
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

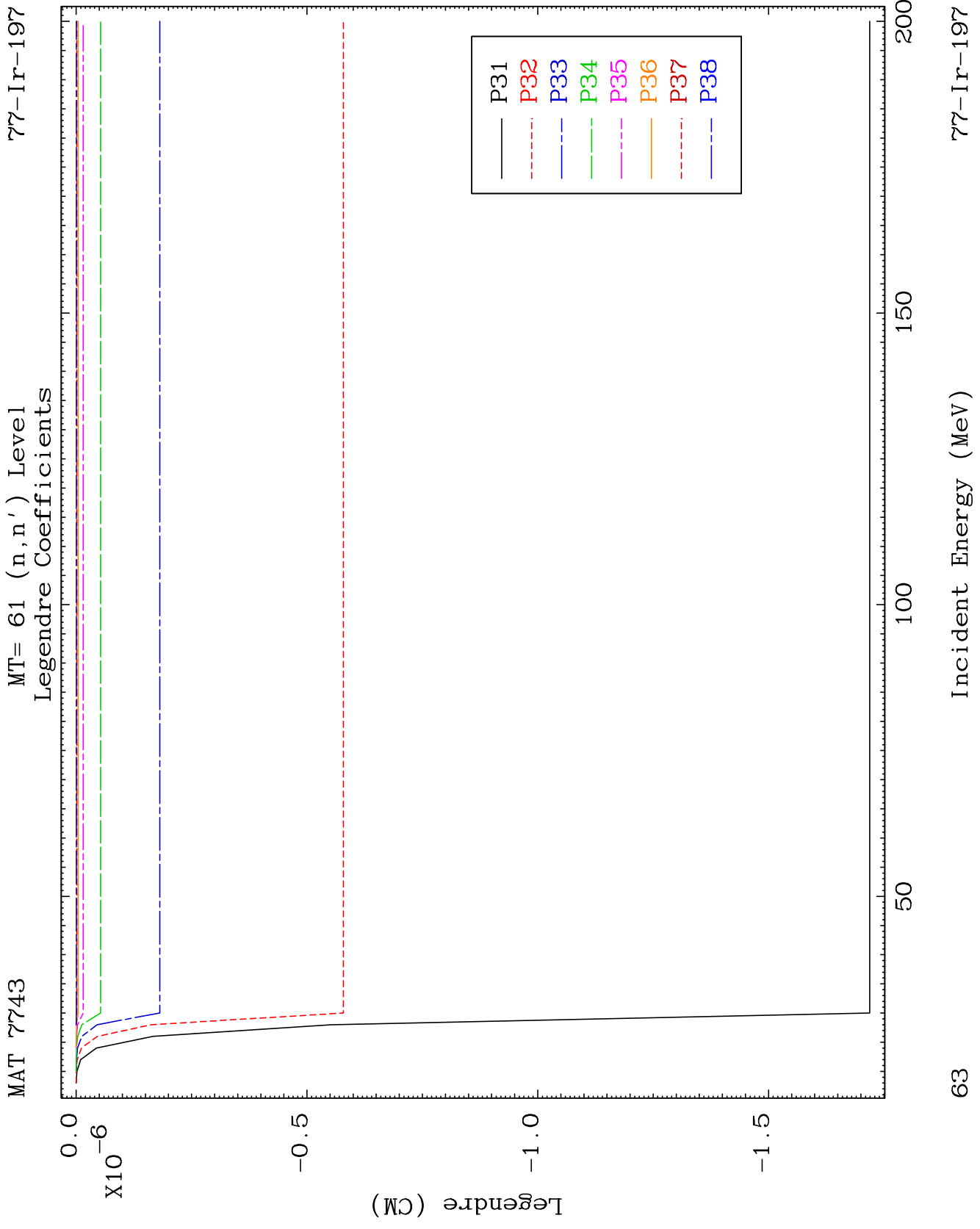
77-Ir-197



62

Incident Energy (MeV)

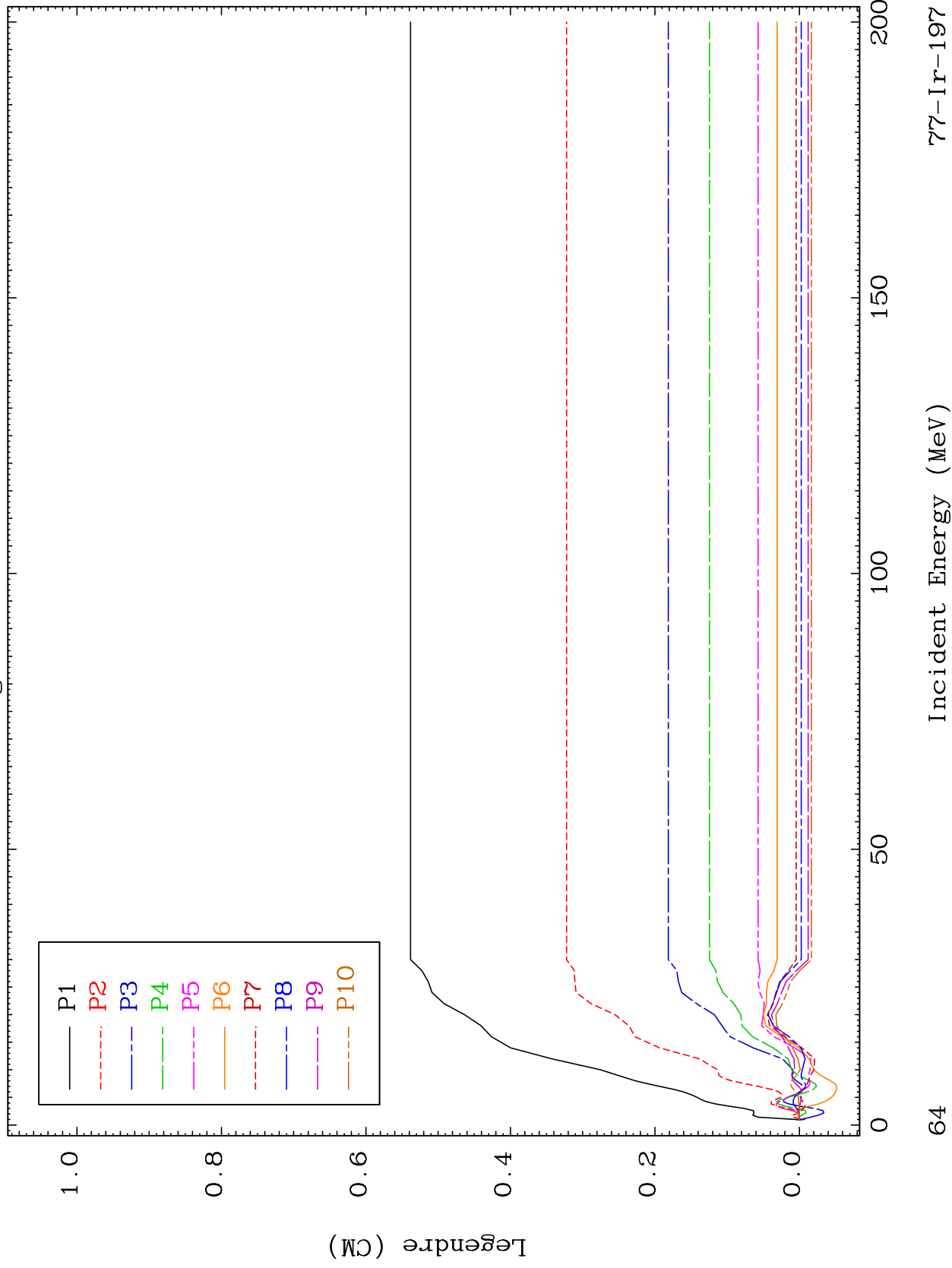
77-Ir-197



MAT 7743

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

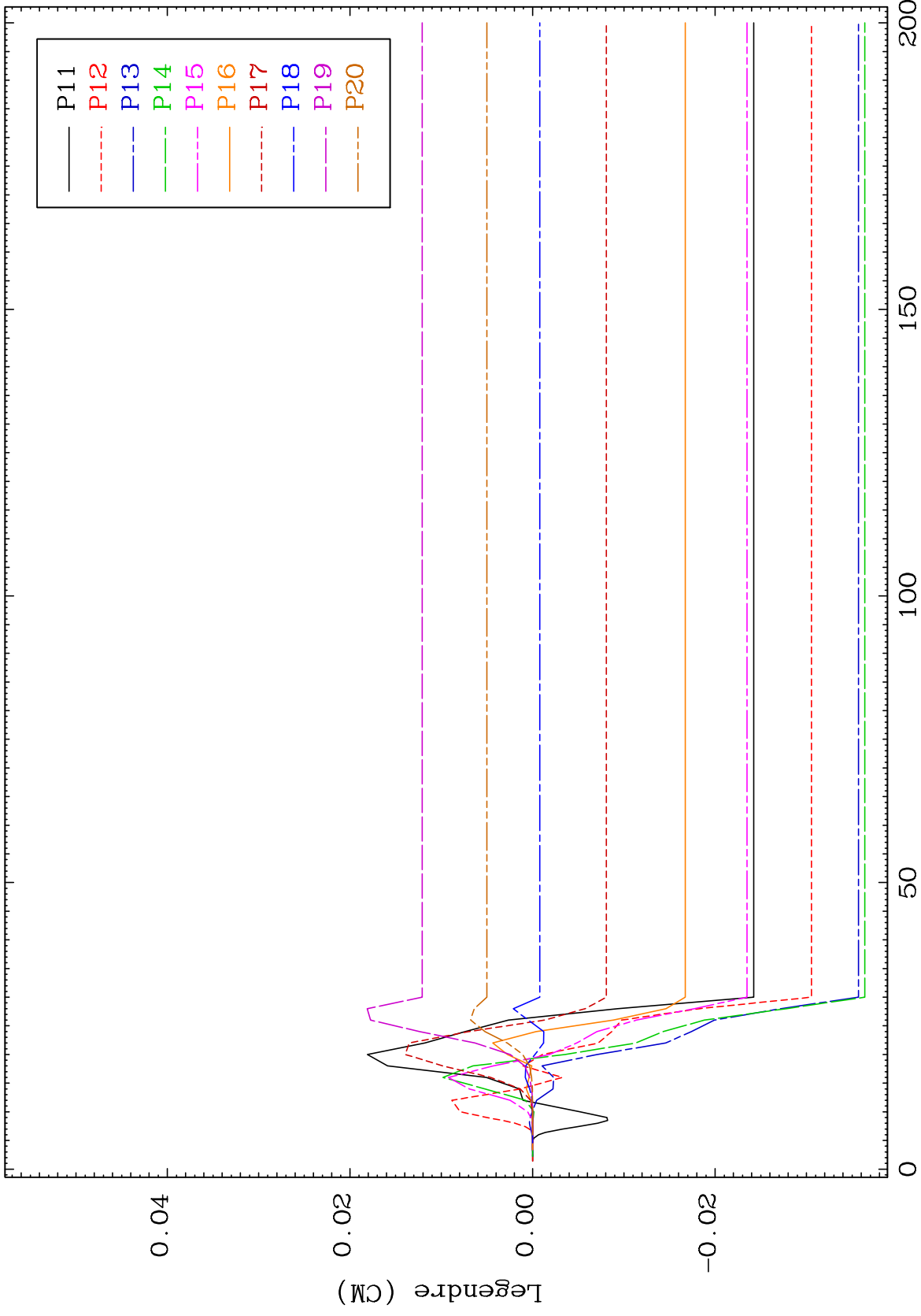
77-Ir-197



MAT 7743

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

77-Ir-197



65

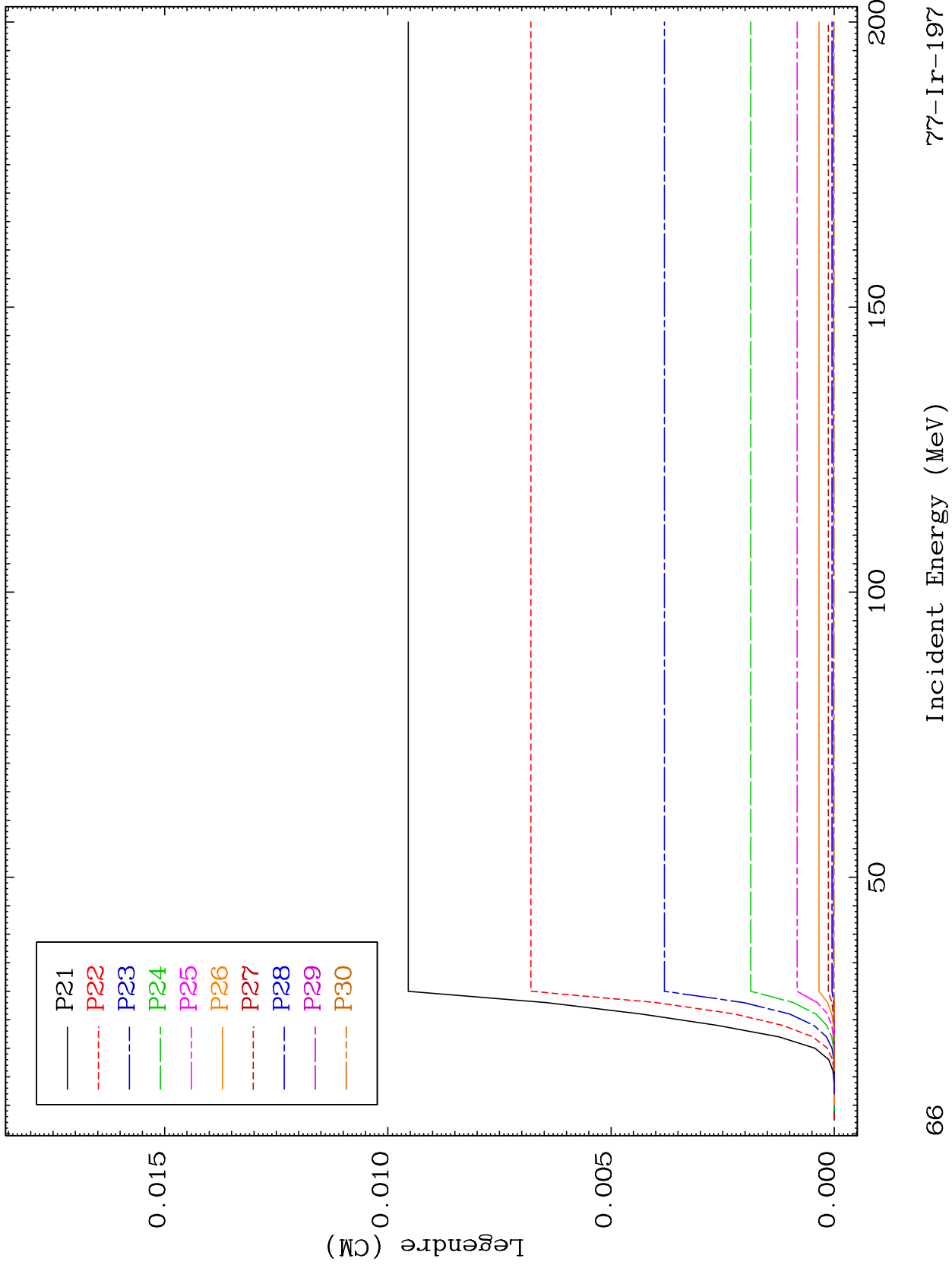
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

77-Ir-197



66

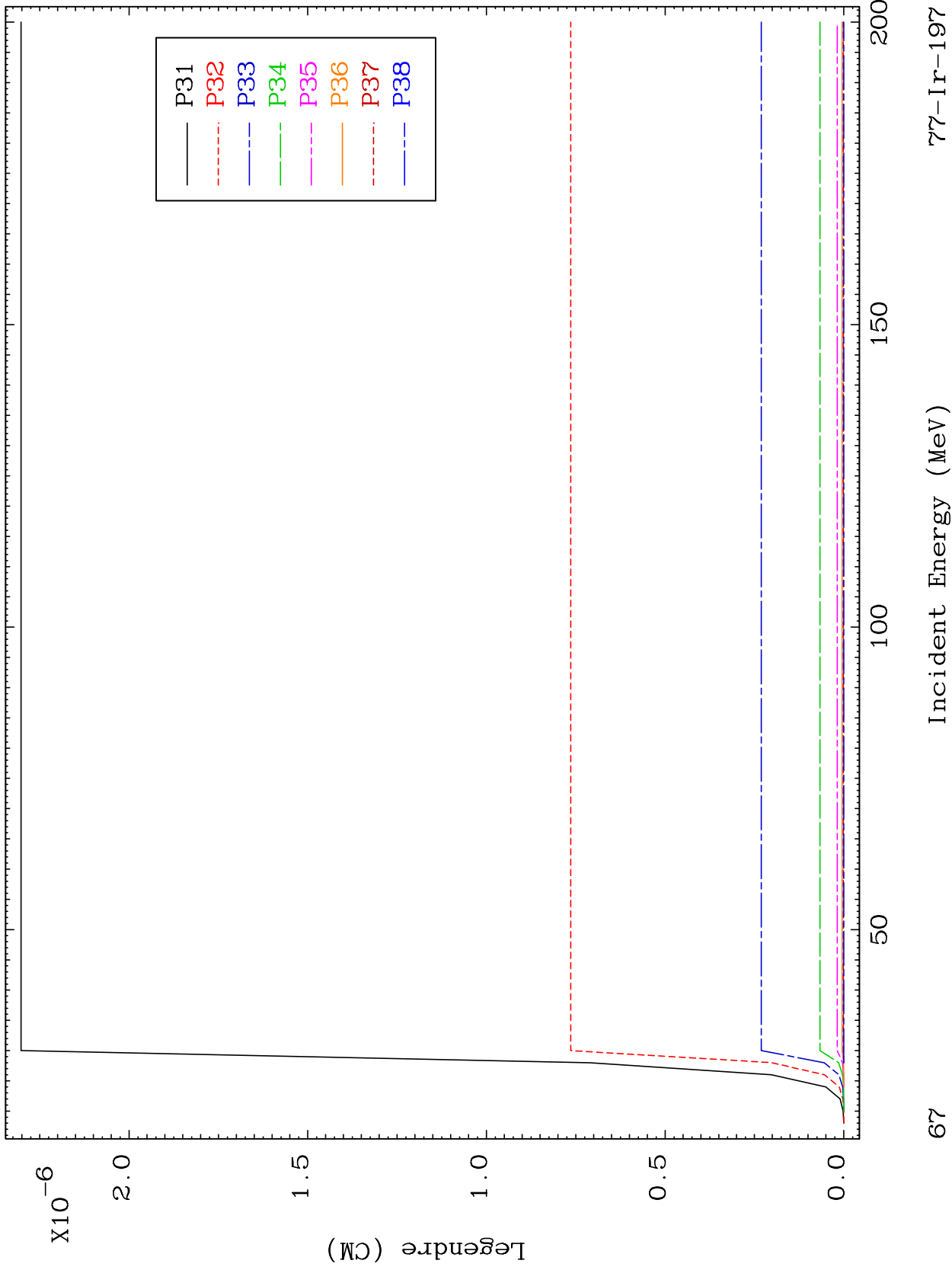
Incident Energy (MeV)

77-Ir-197

MAT 7743

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

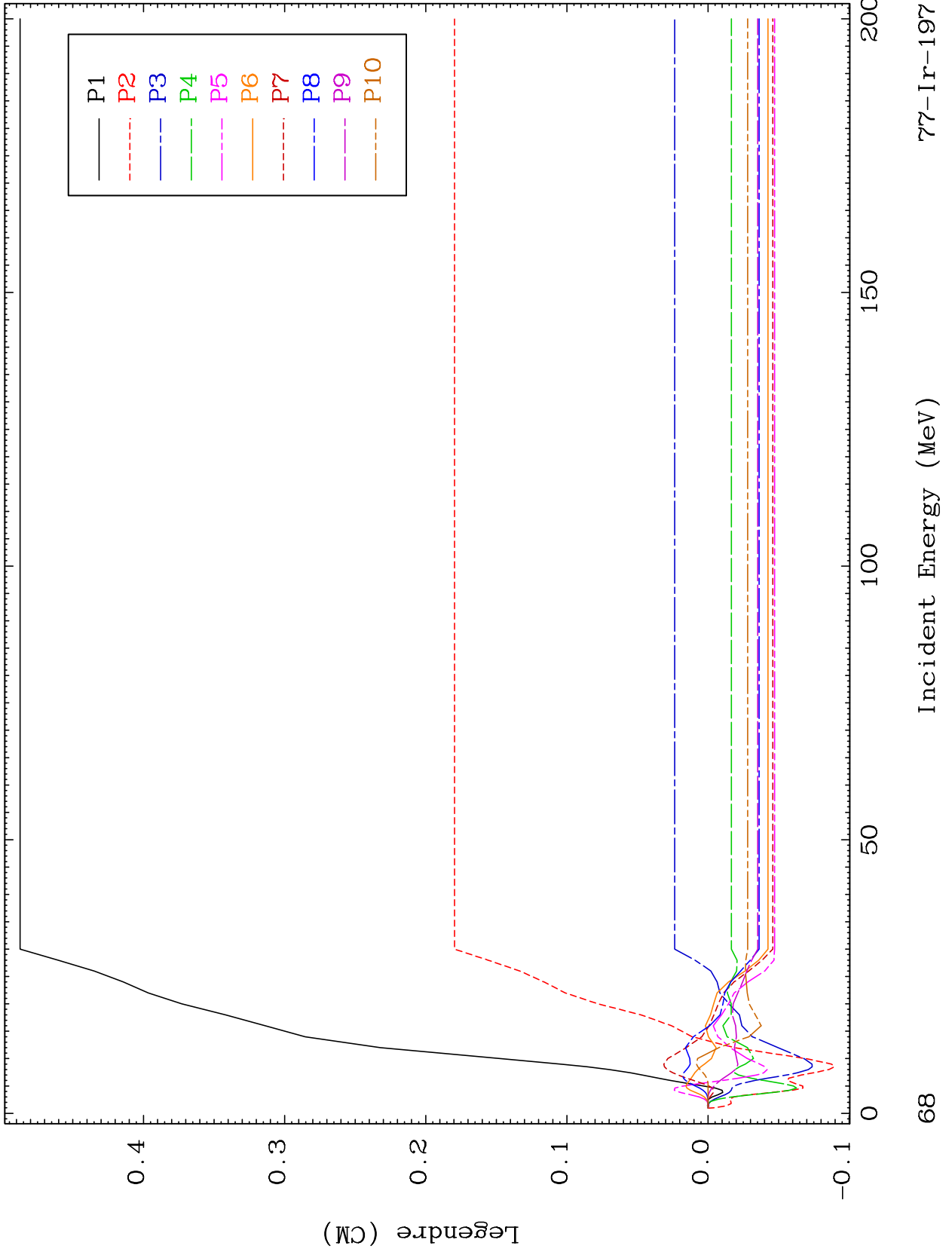
77-Ir-197



MAT 7743

MT= 63 (n,n') Level
Legendre Coefficients

77-Ir-197



68

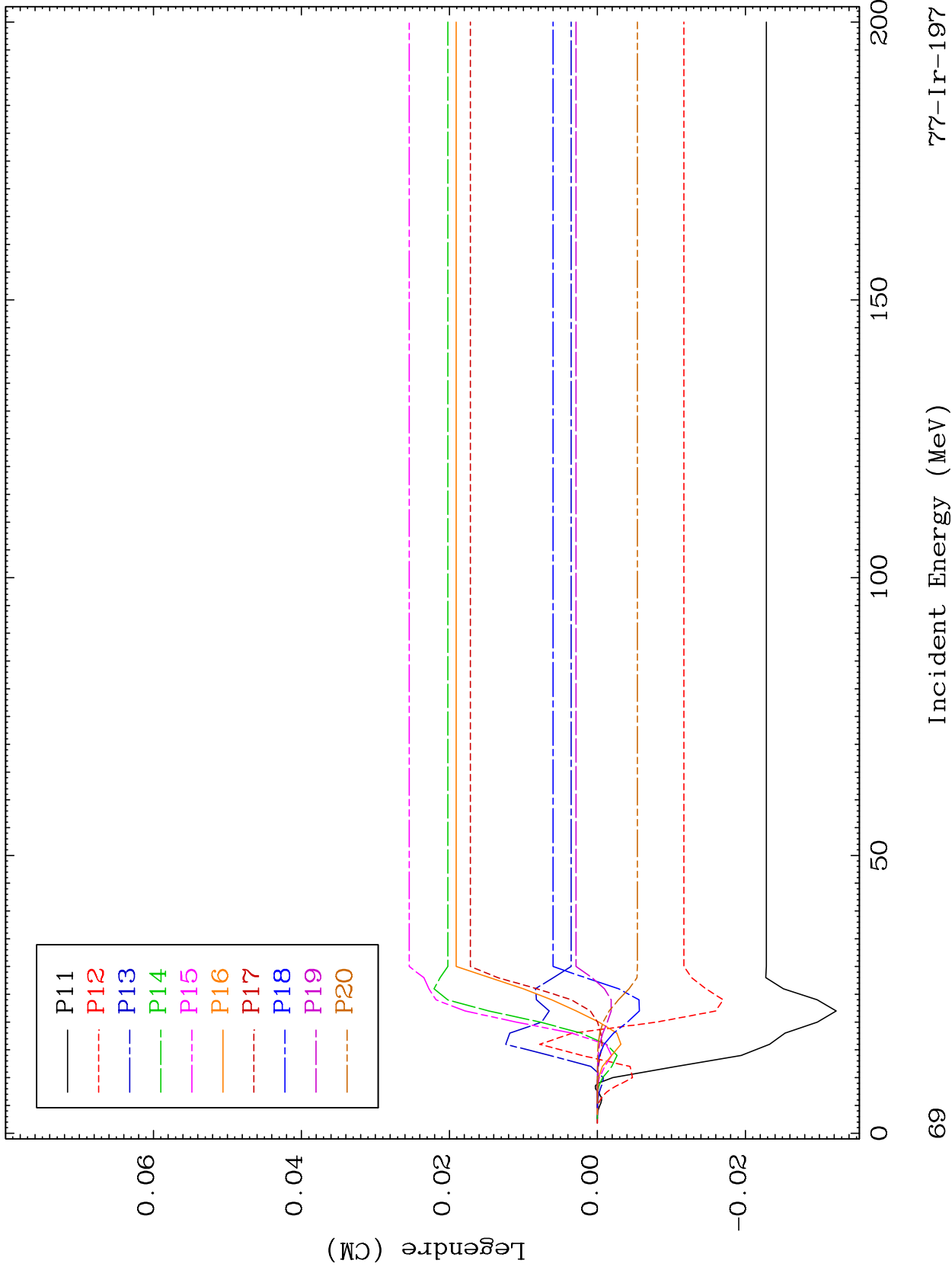
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 63 (n,n') Level
Legendre Coefficients

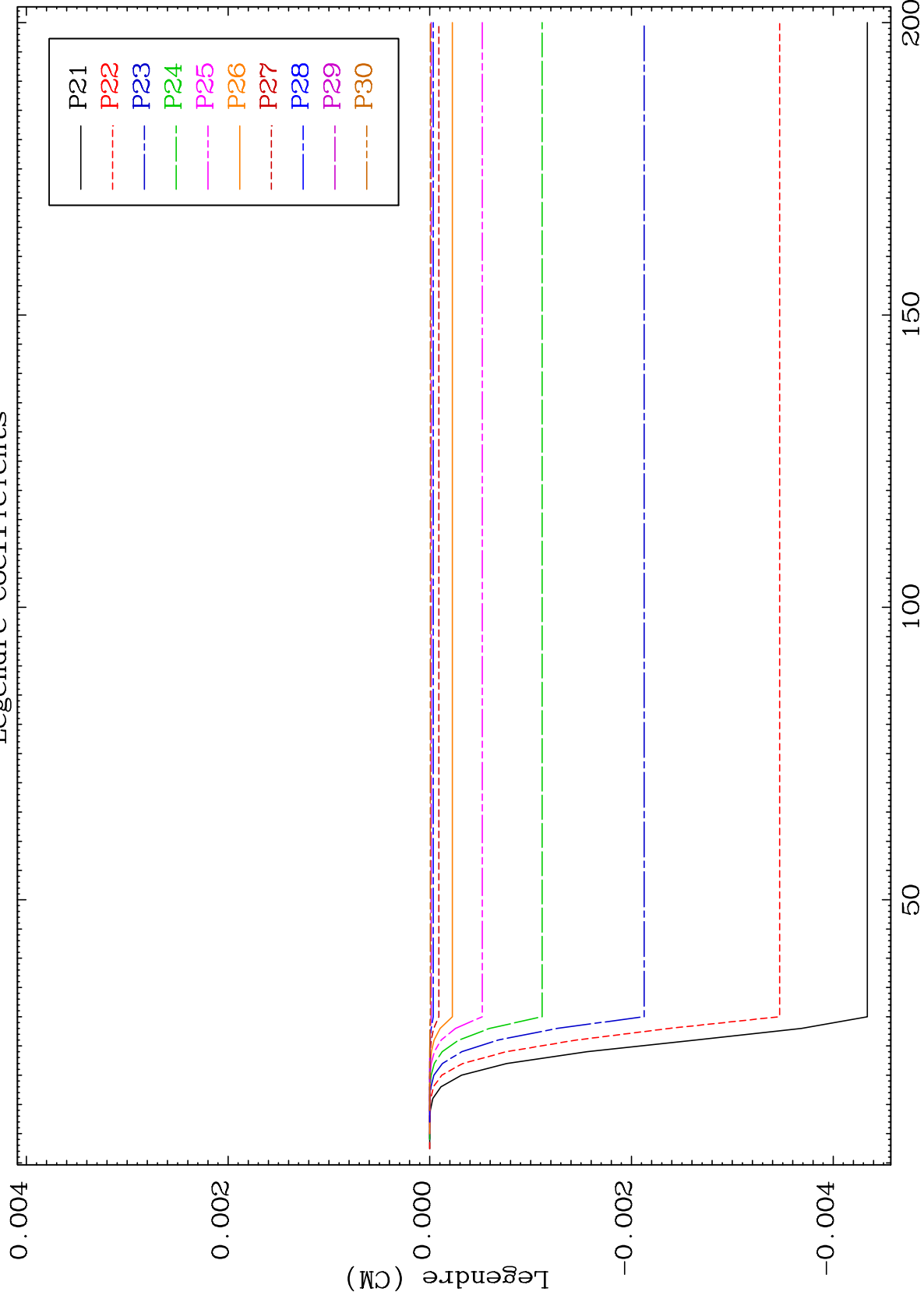
77-Ir-197



MAT 7743

MT= 63 (n,n') Level
Legendre Coefficients

77-Ir-197



70

Incident Energy (MeV)

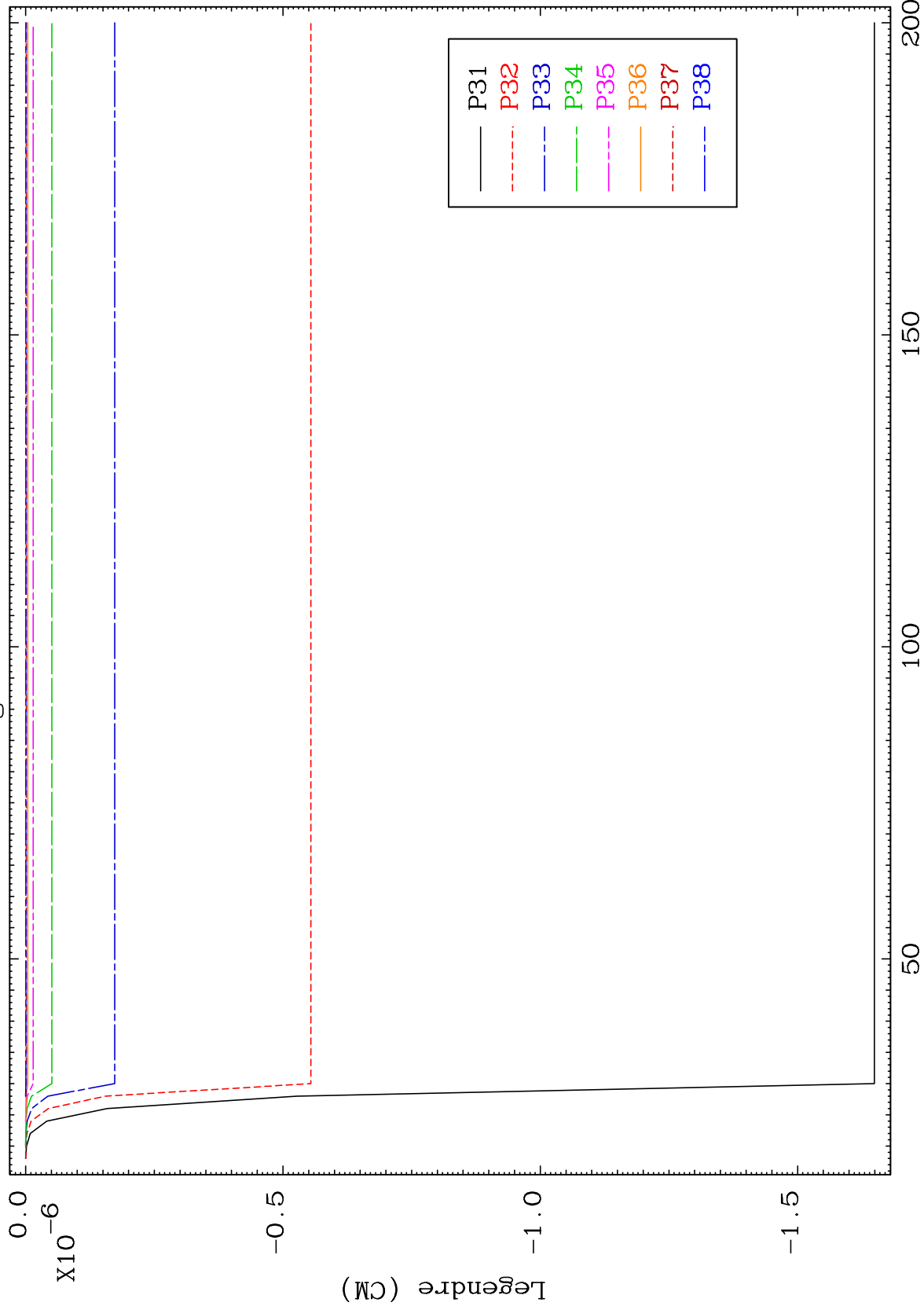
77-Ir-197

MAT 7743

MT= 63 (n,n') Level

77-Ir-197

Legendre Coefficients



77-Ir-197

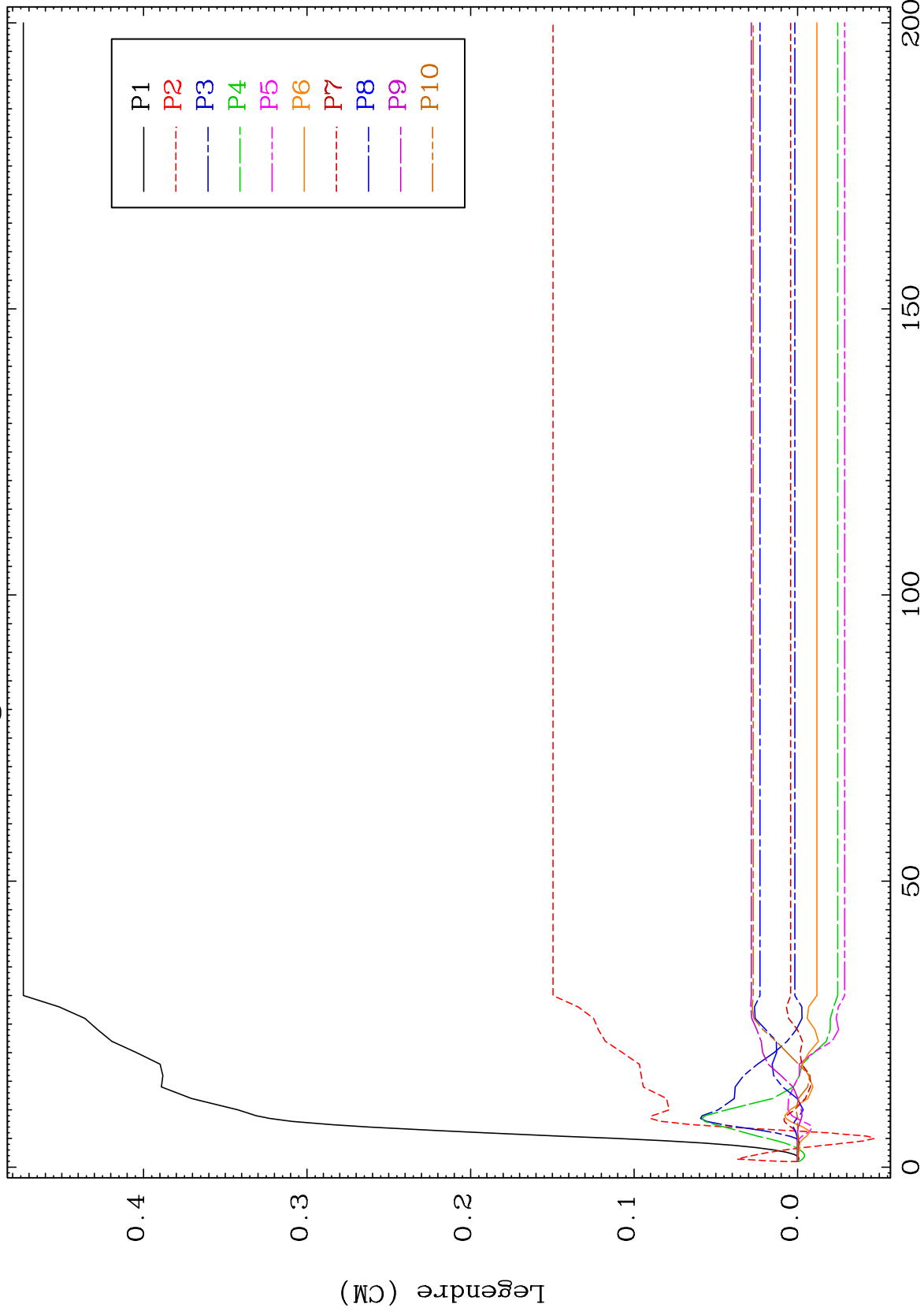
Incident Energy (MeV)

71

MAT 7743

MT= 64 (n,n') Level
Legendre Coefficients

77-Ir-197



72

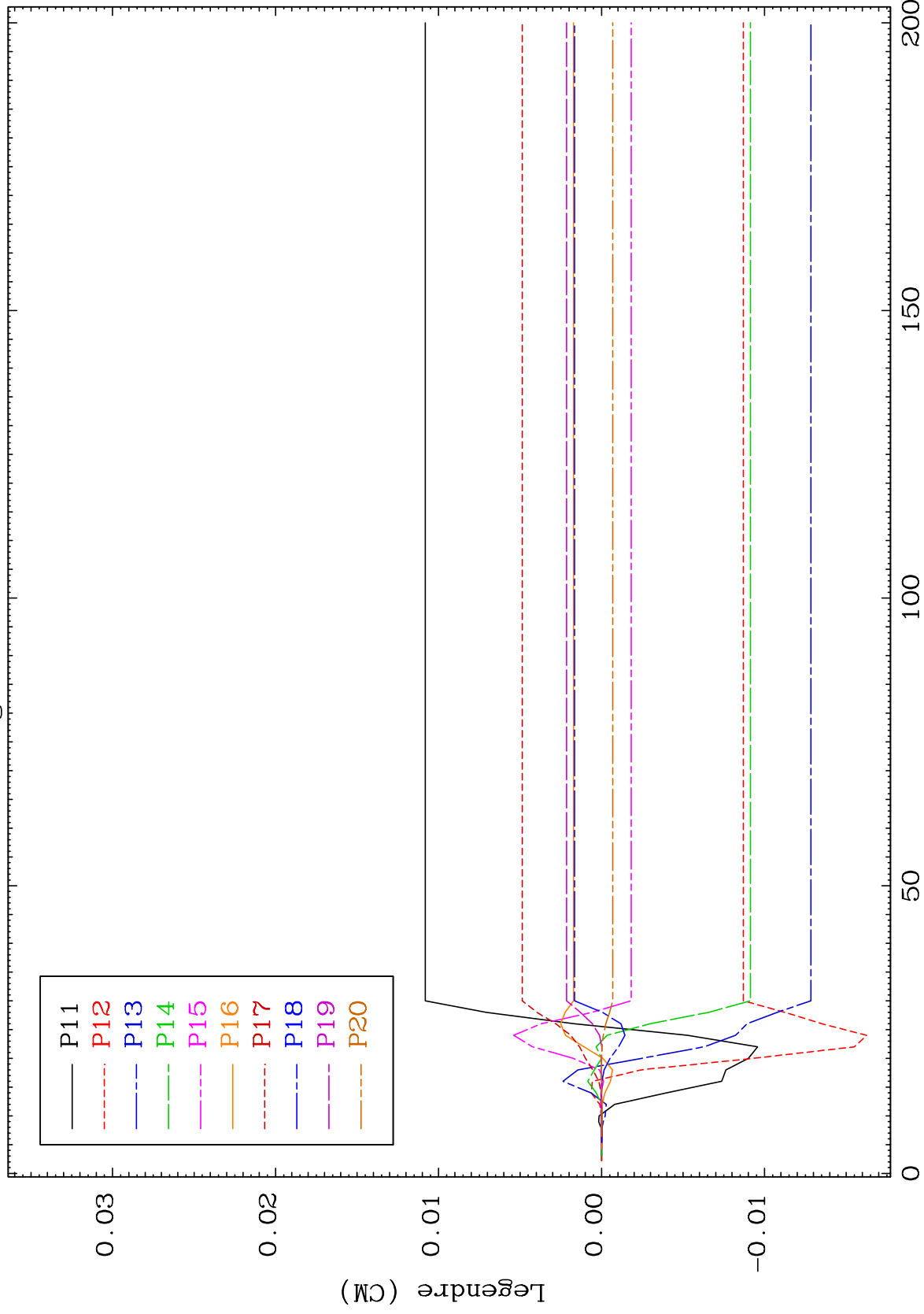
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 64 (n,n') Level
Legendre Coefficients

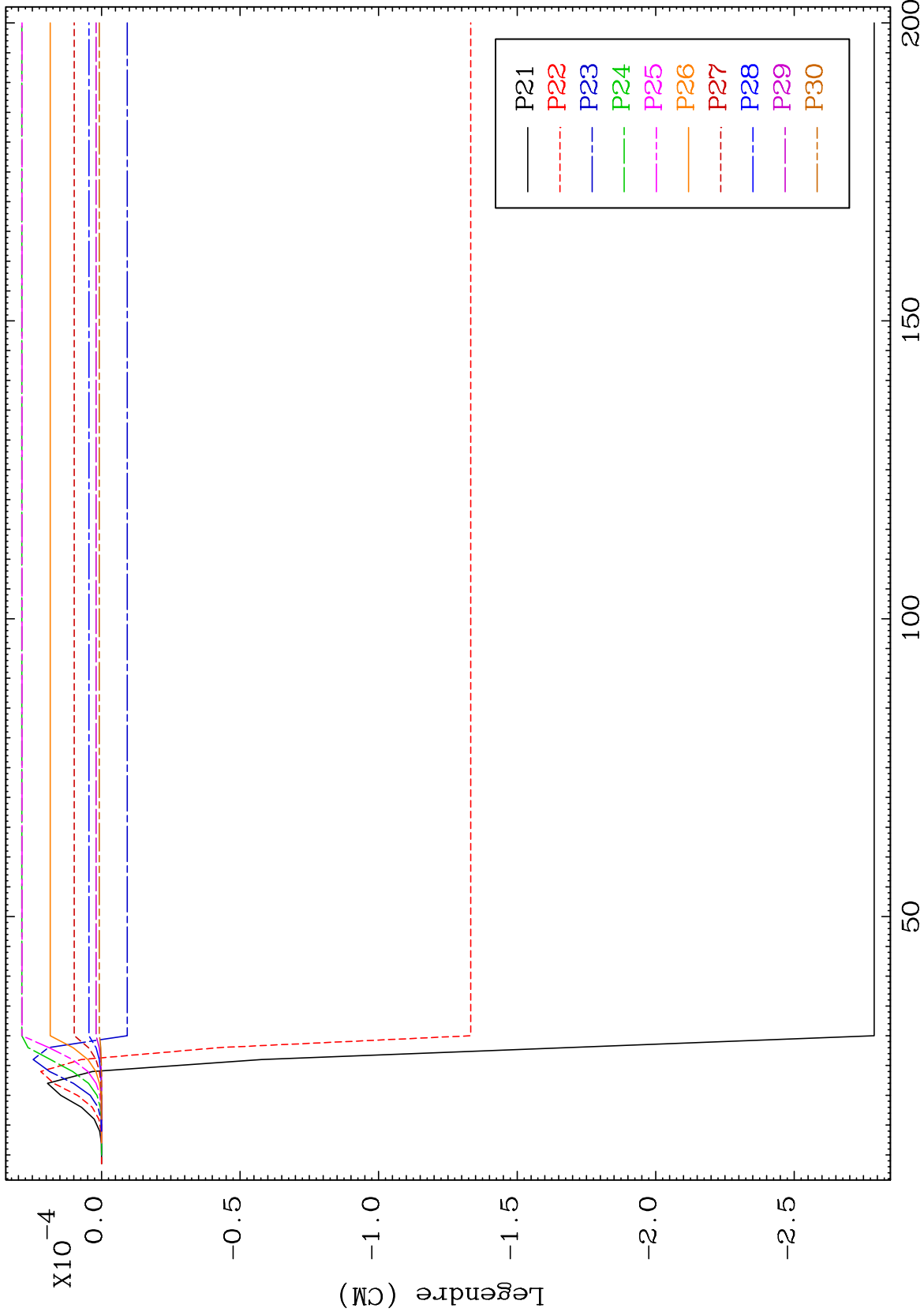
77-Ir-197



73

Incident Energy (MeV)

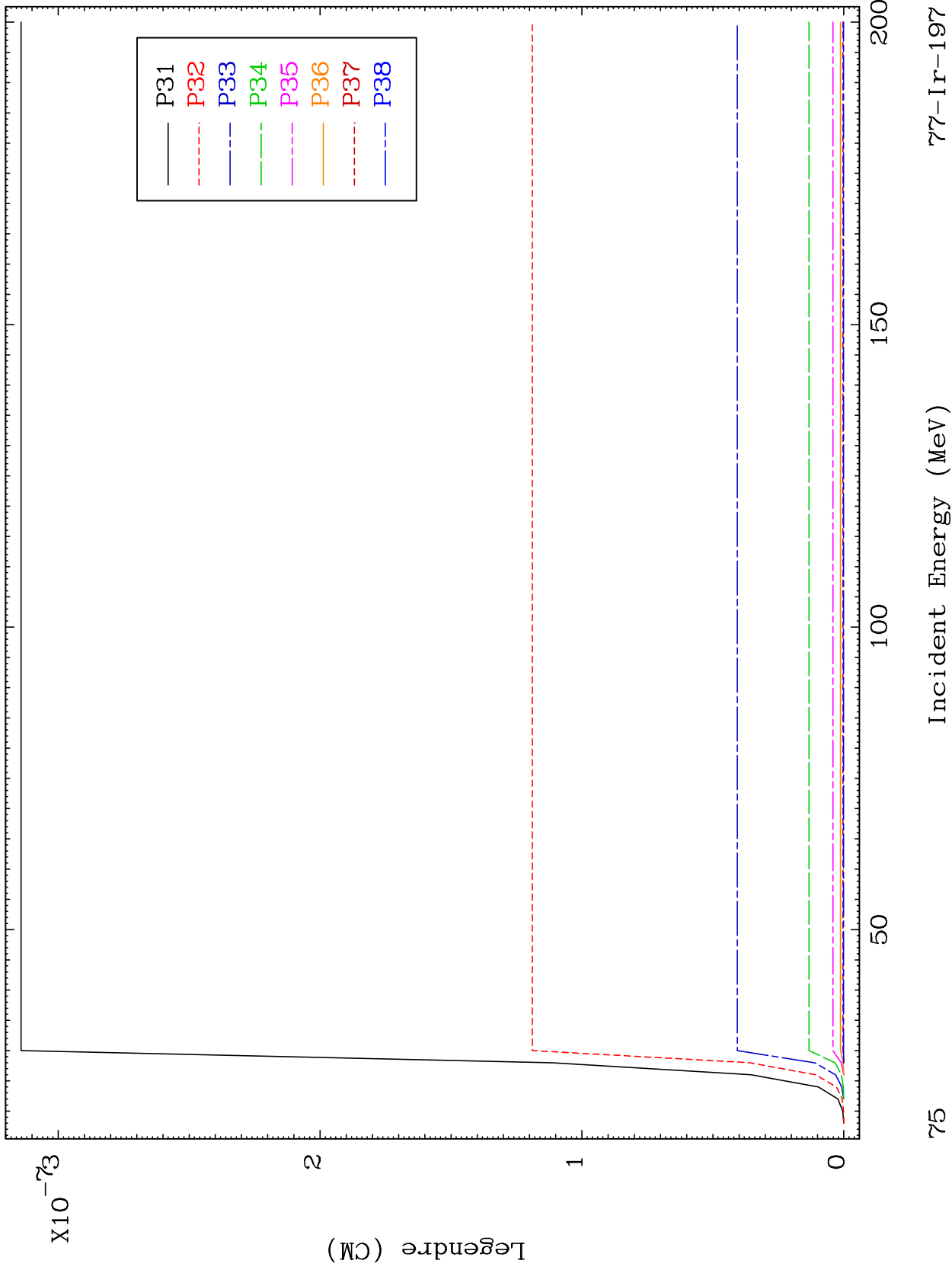
77-Ir-197



MAT 7743

MT= 64 (n,n') Level
Legendre Coefficients

77-Ir-197



75

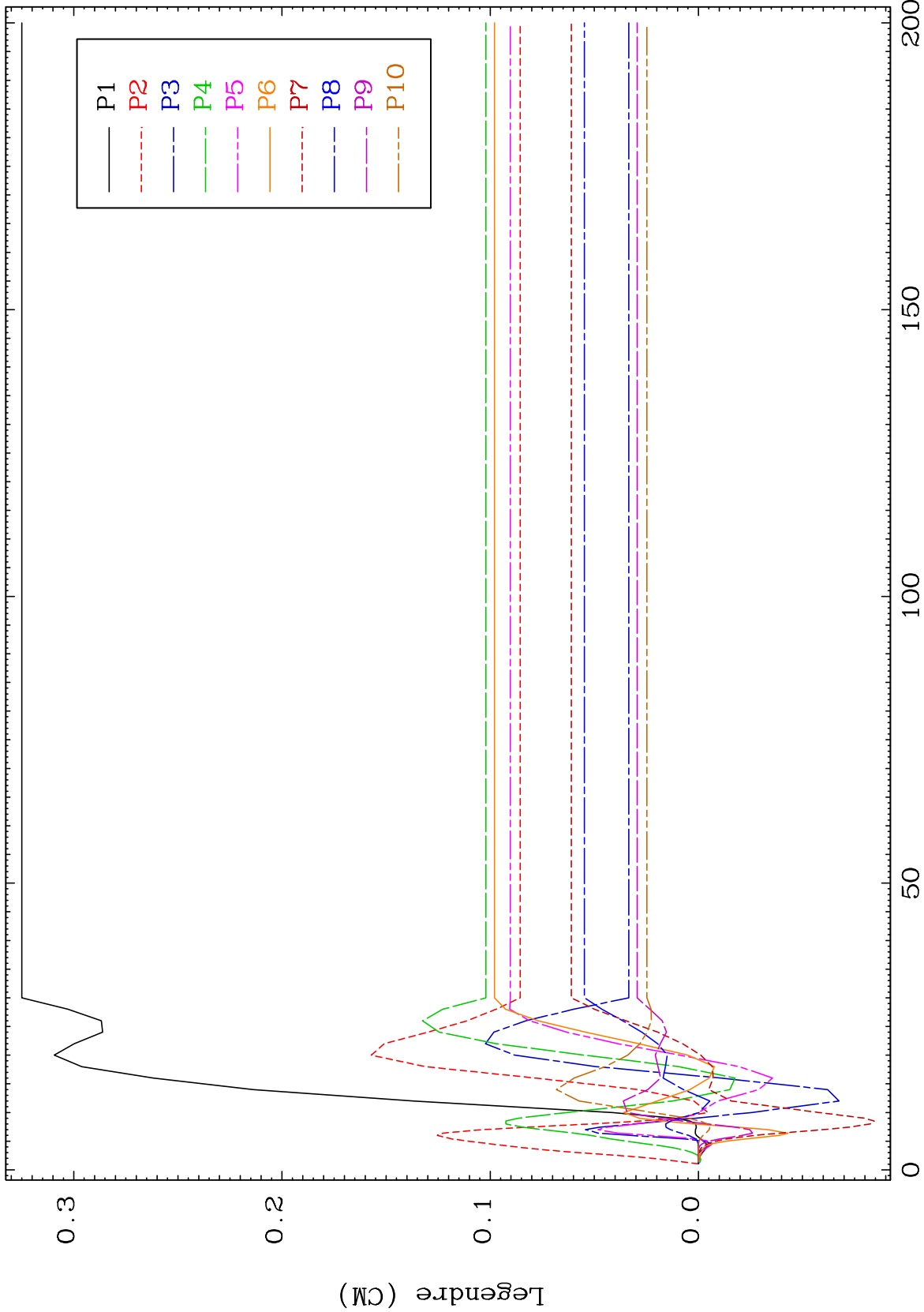
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 65 (n,n') Level
Legendre Coefficients

77-Ir-197



76

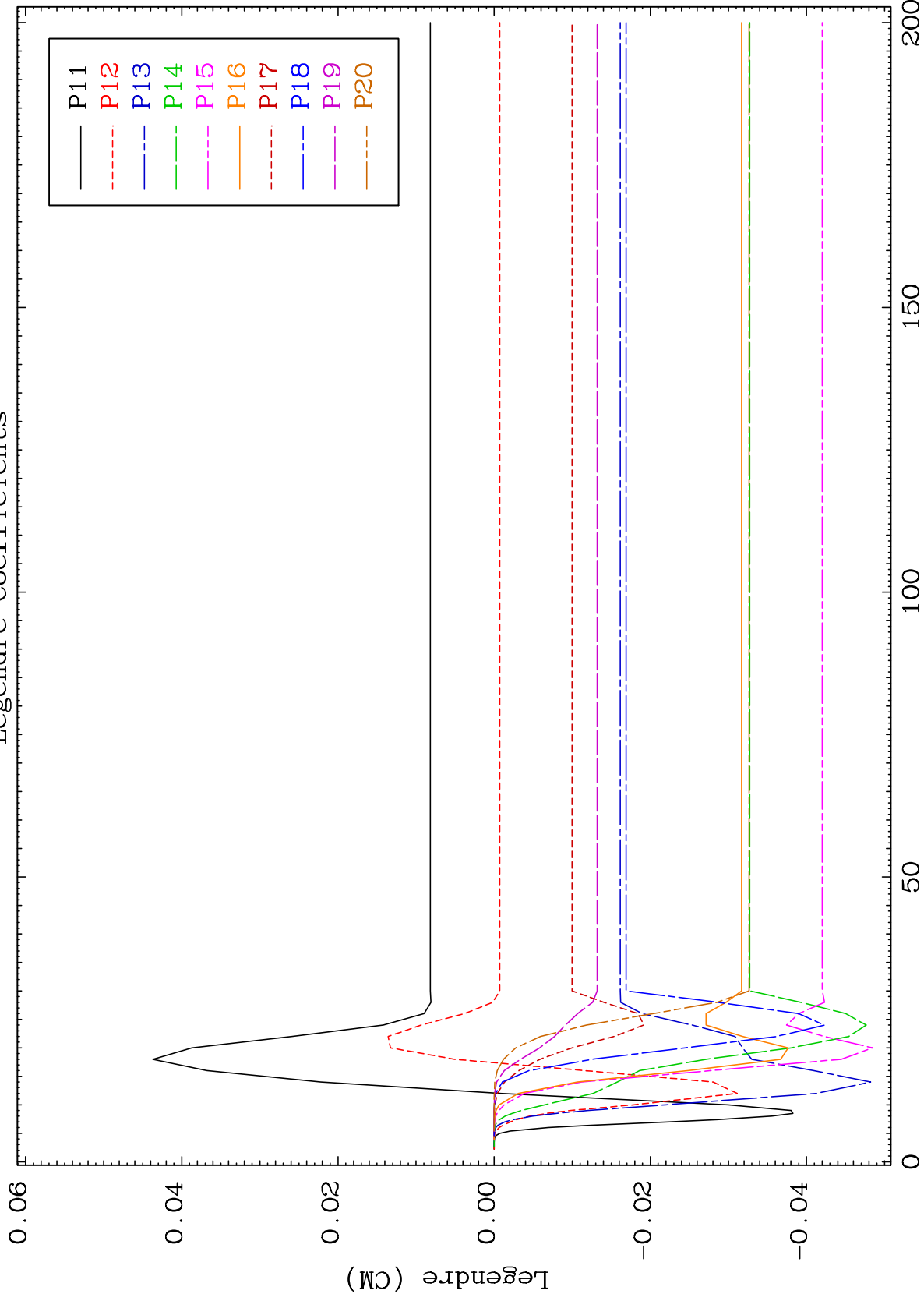
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 65 (n,n') Level
Legendre Coefficients

77-Ir-197



77

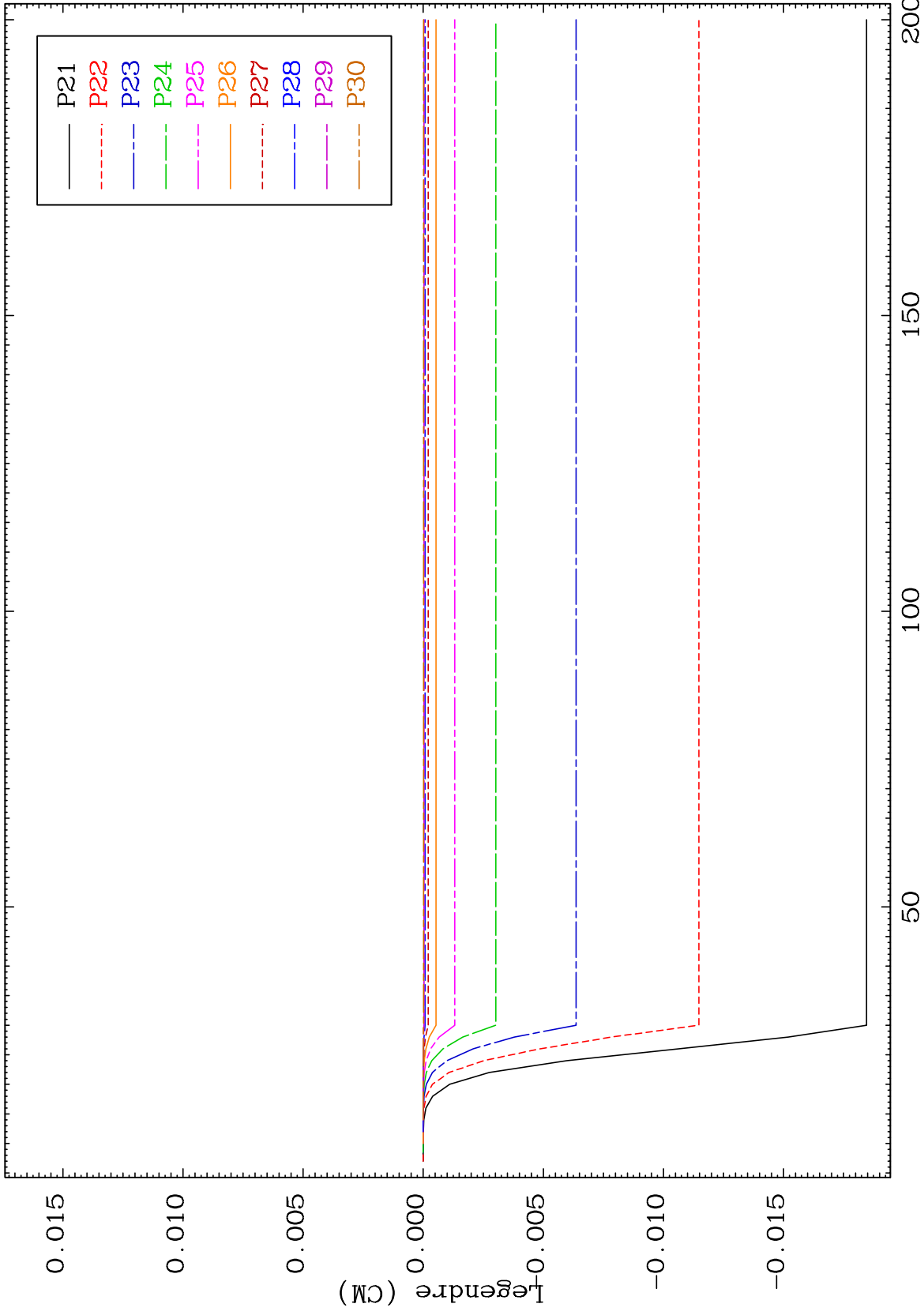
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 65 (n,n') Level
Legendre Coefficients

77-Ir-197



78

Incident Energy (MeV)

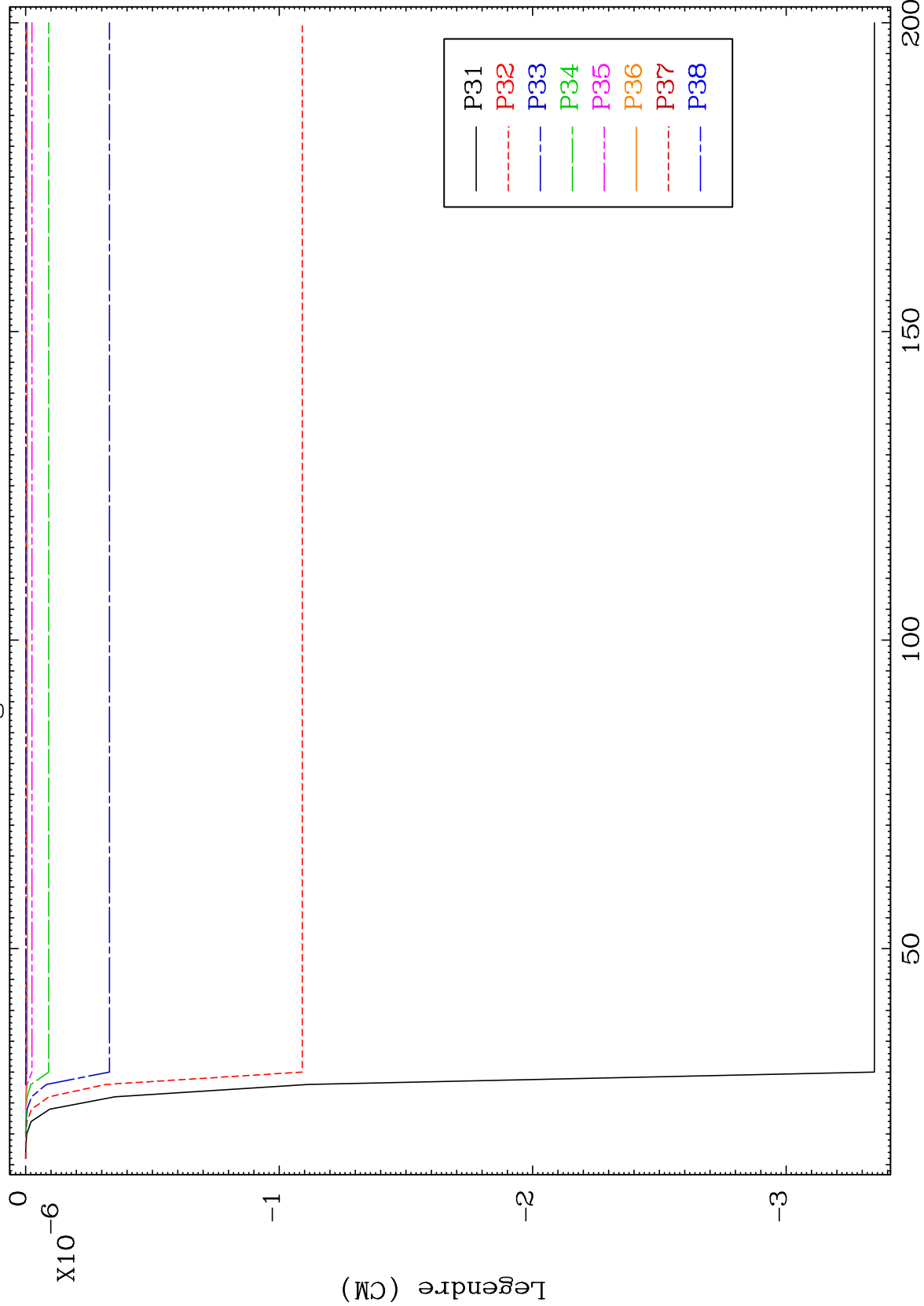
77-Ir-197

MAT 7743

MT= 65 (n,n') Level

77-Ir-197

Legendre Coefficients



79

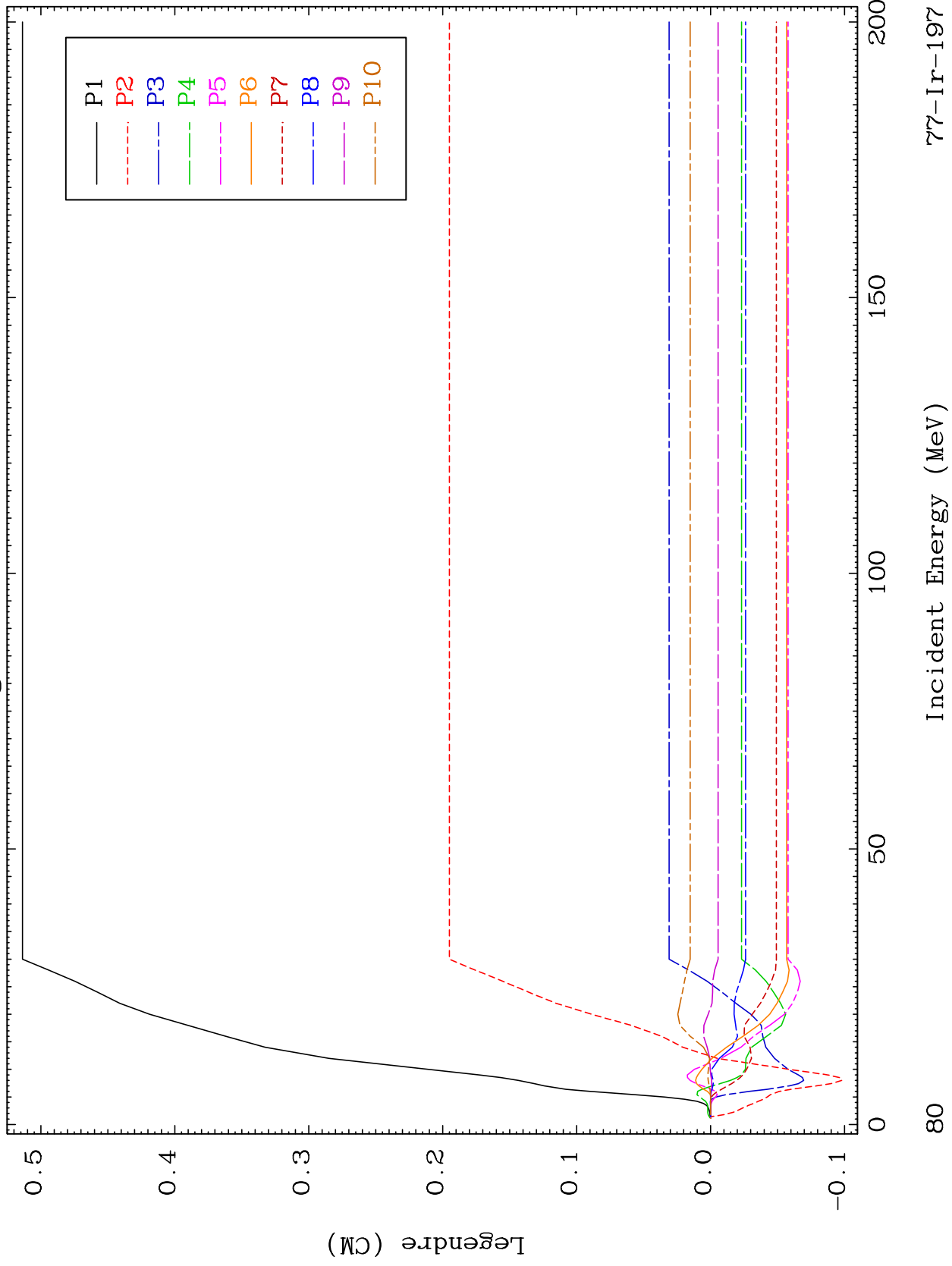
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 66 (n,n') Level
Legendre Coefficients

77-Ir-197



77-Ir-197

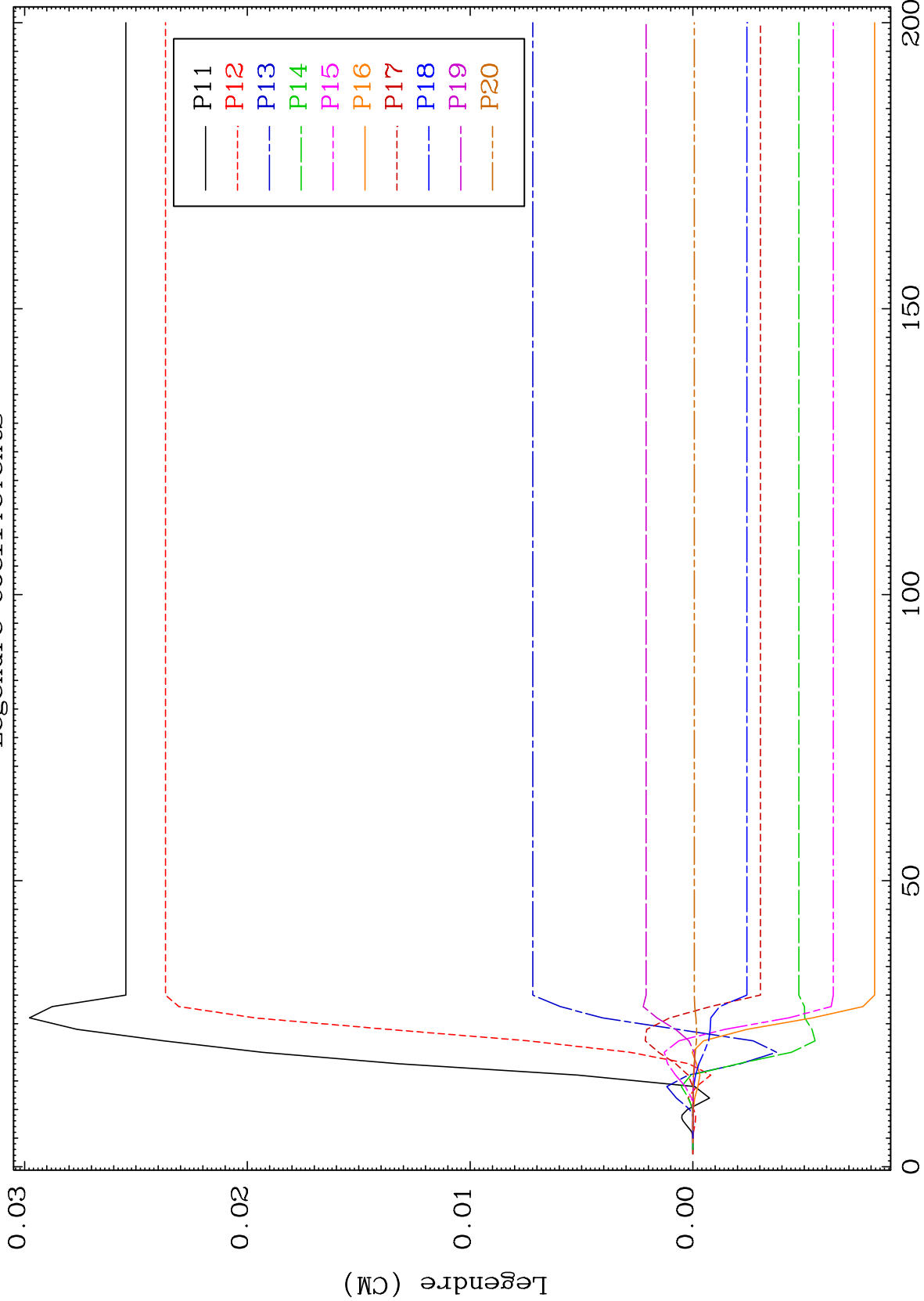
Incident Energy (MeV)

80

MAT 7743

MT= 66 (n,n') Level
Legendre Coefficients

77-Ir-197



81

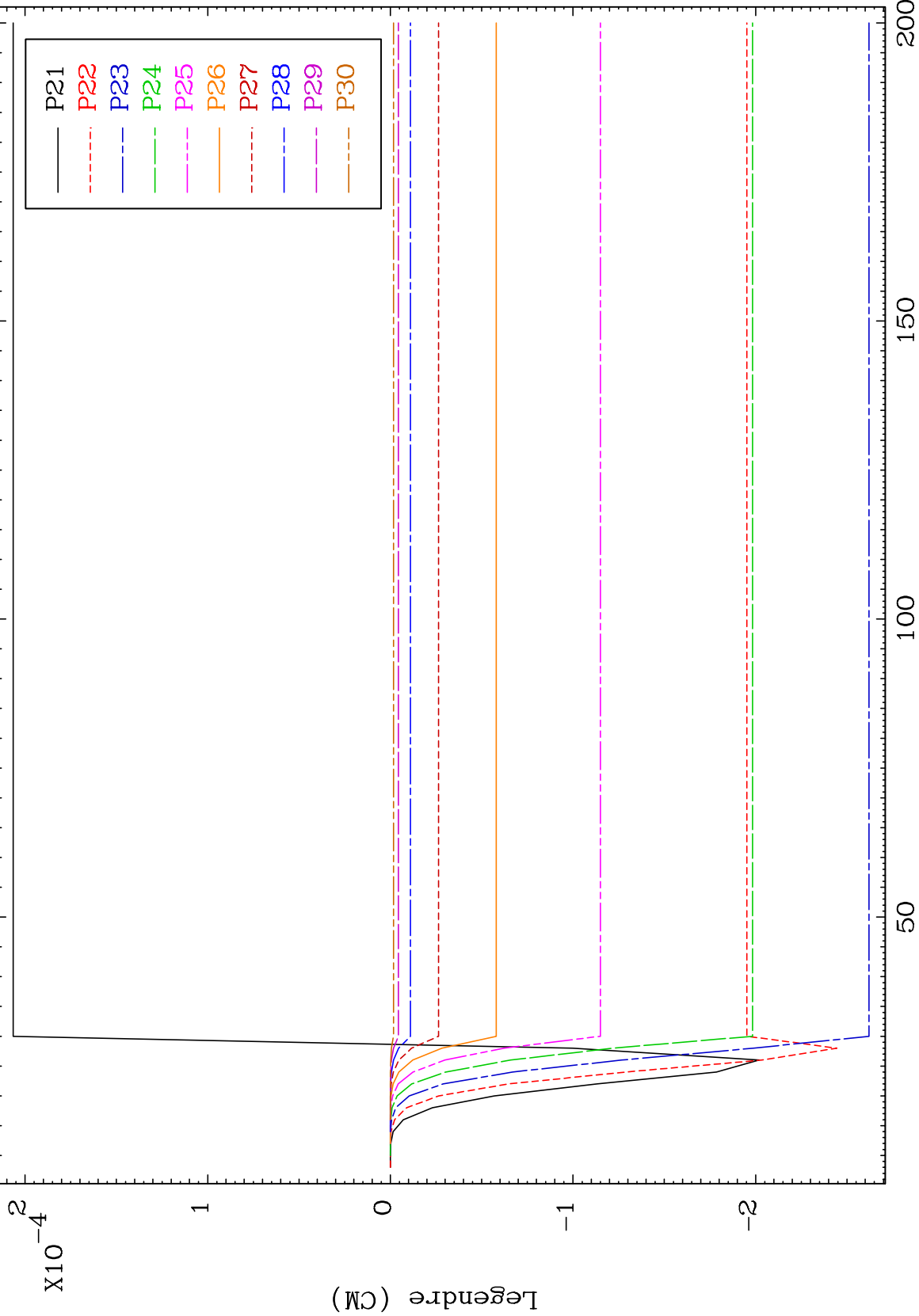
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 66 (n,n') Level
Legendre Coefficients

77-Ir-197



82

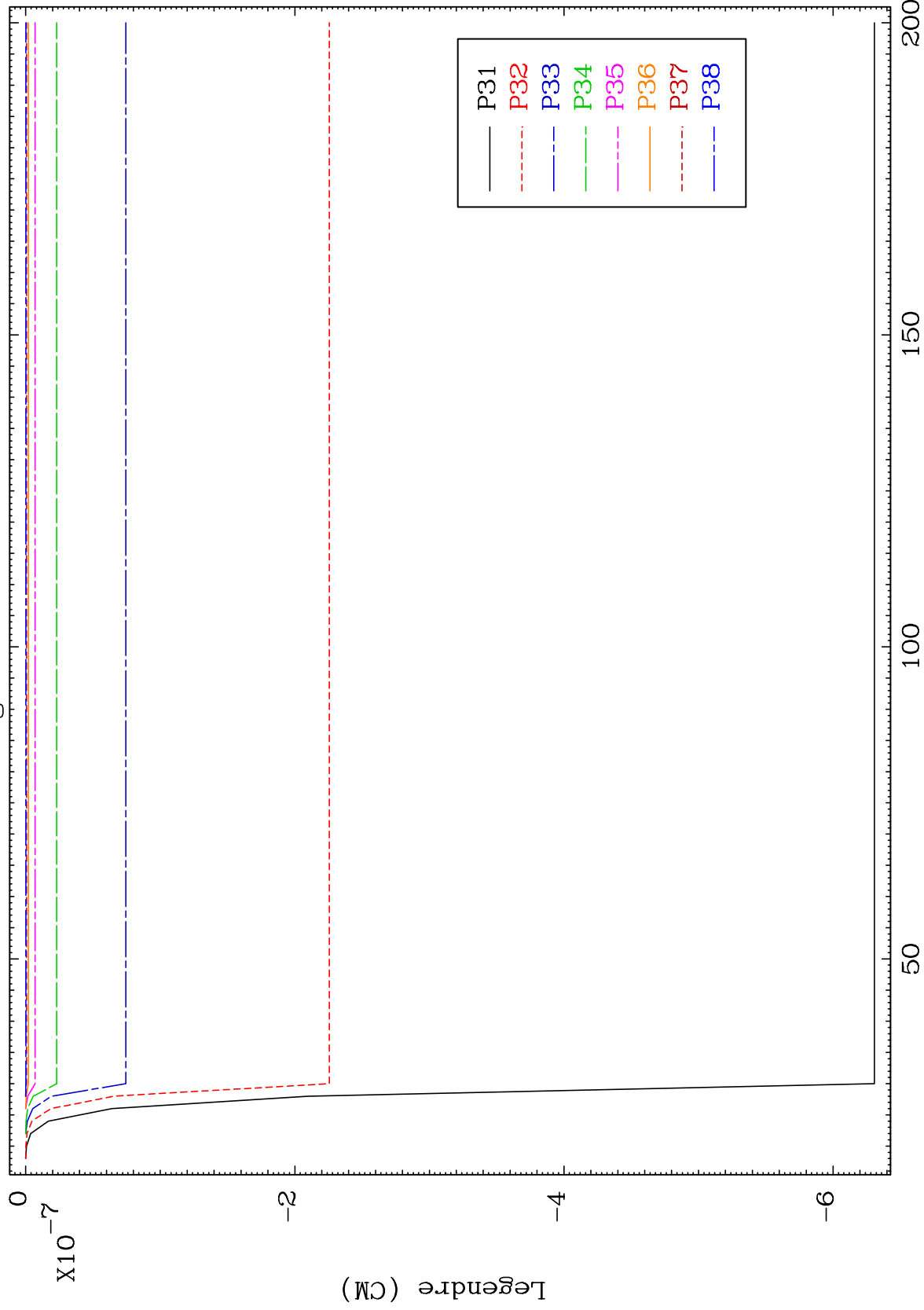
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 66 (n,n') Level
Legendre Coefficients

77-Ir-197



83

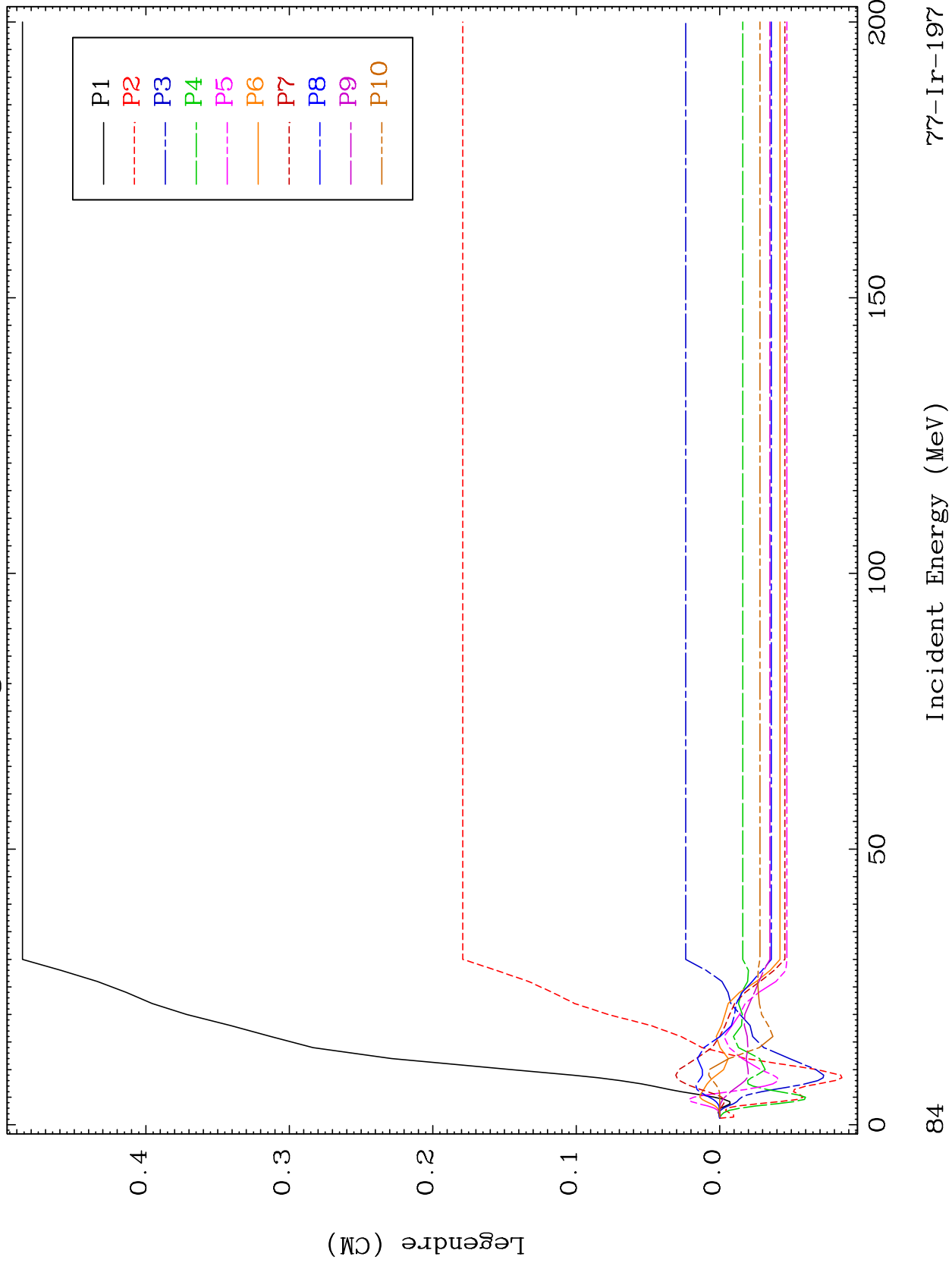
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 67 (n,n') Level
Legendre Coefficients

77-Ir-197



77-Ir-197

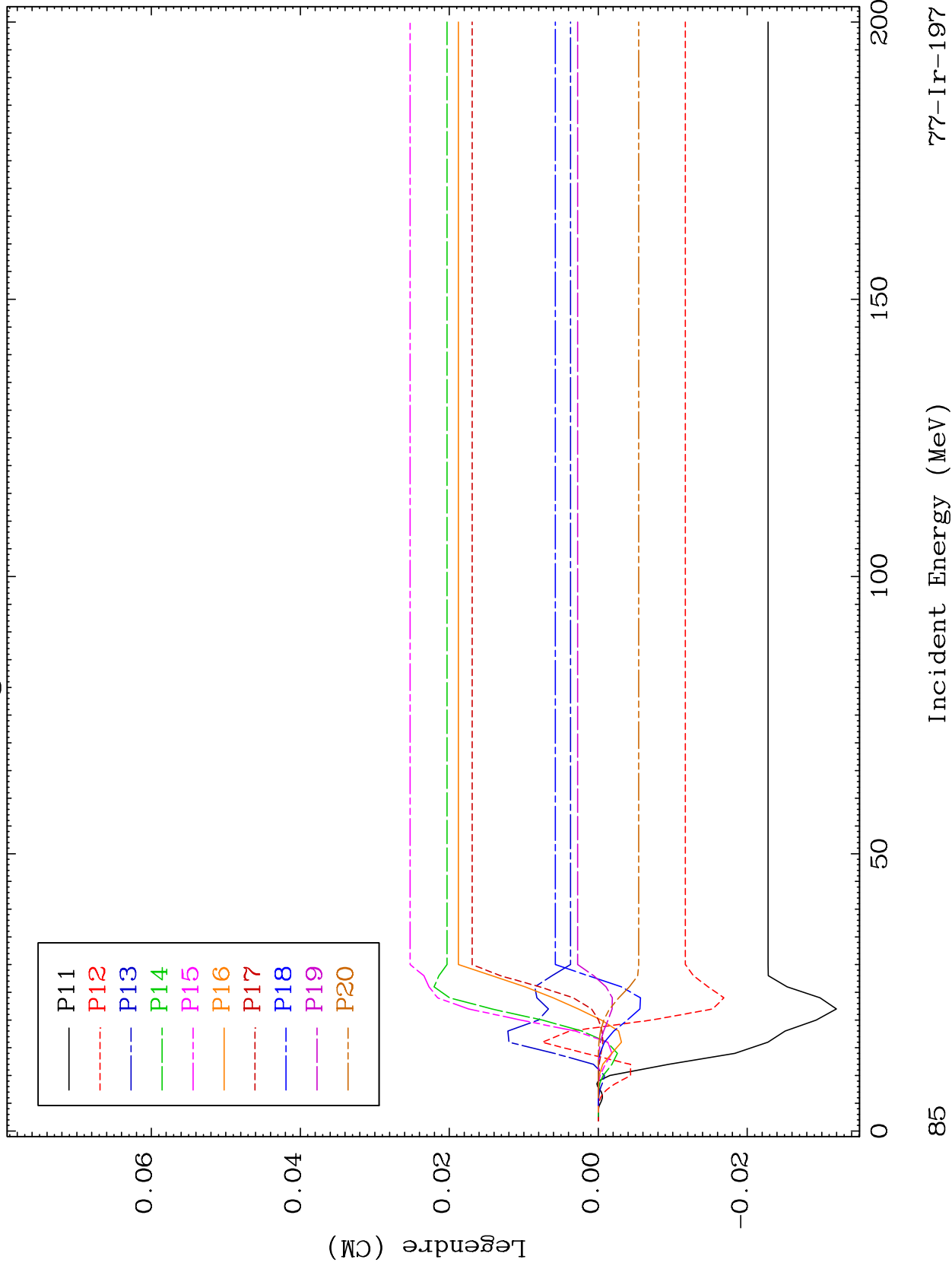
Incident Energy (MeV)

84

MAT 7743

MT= 67 (n,n') Level
Legendre Coefficients

77-Ir-197



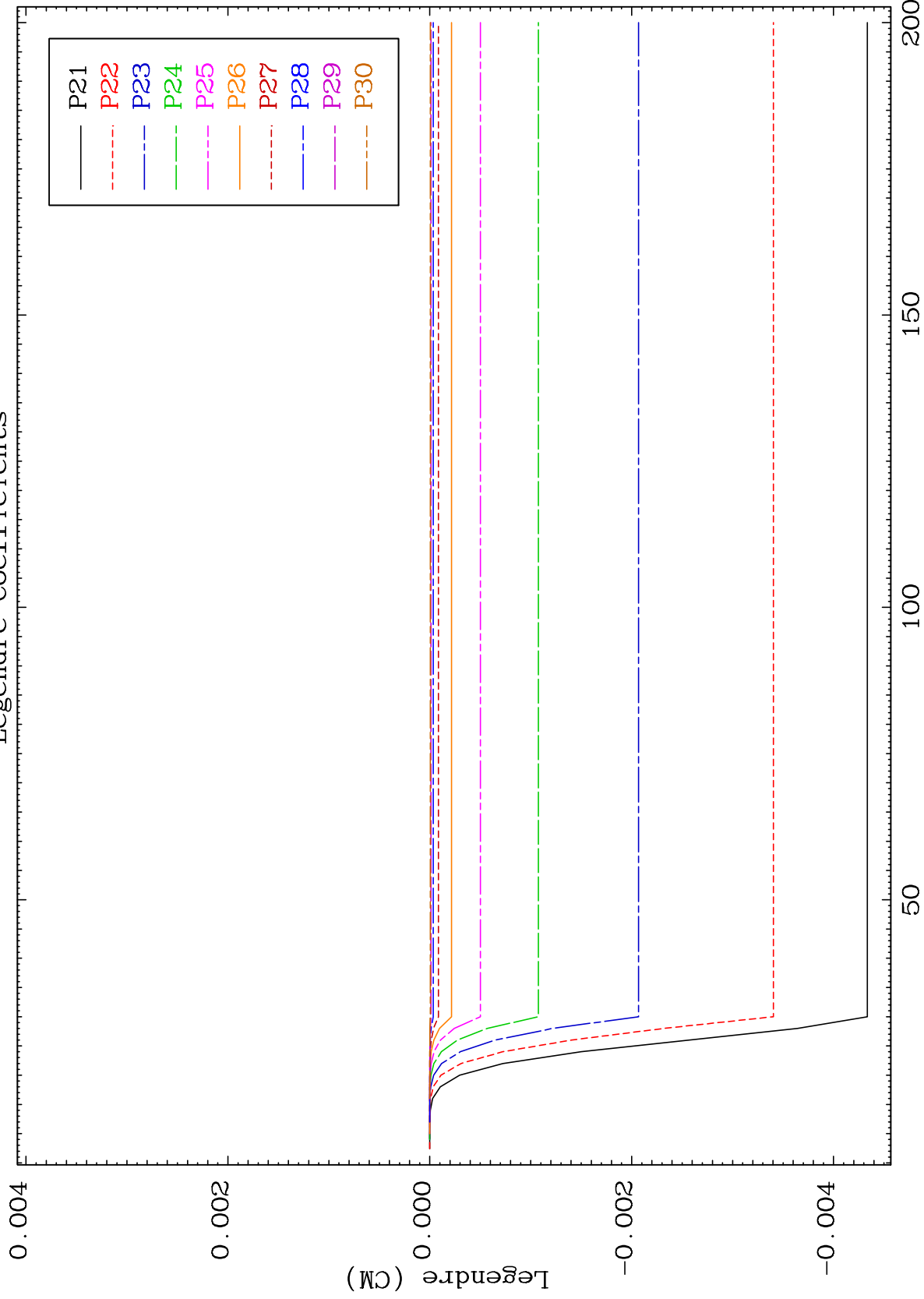
85

77-Ir-197

MAT 7743

MT= 67 (n,n') Level
Legendre Coefficients

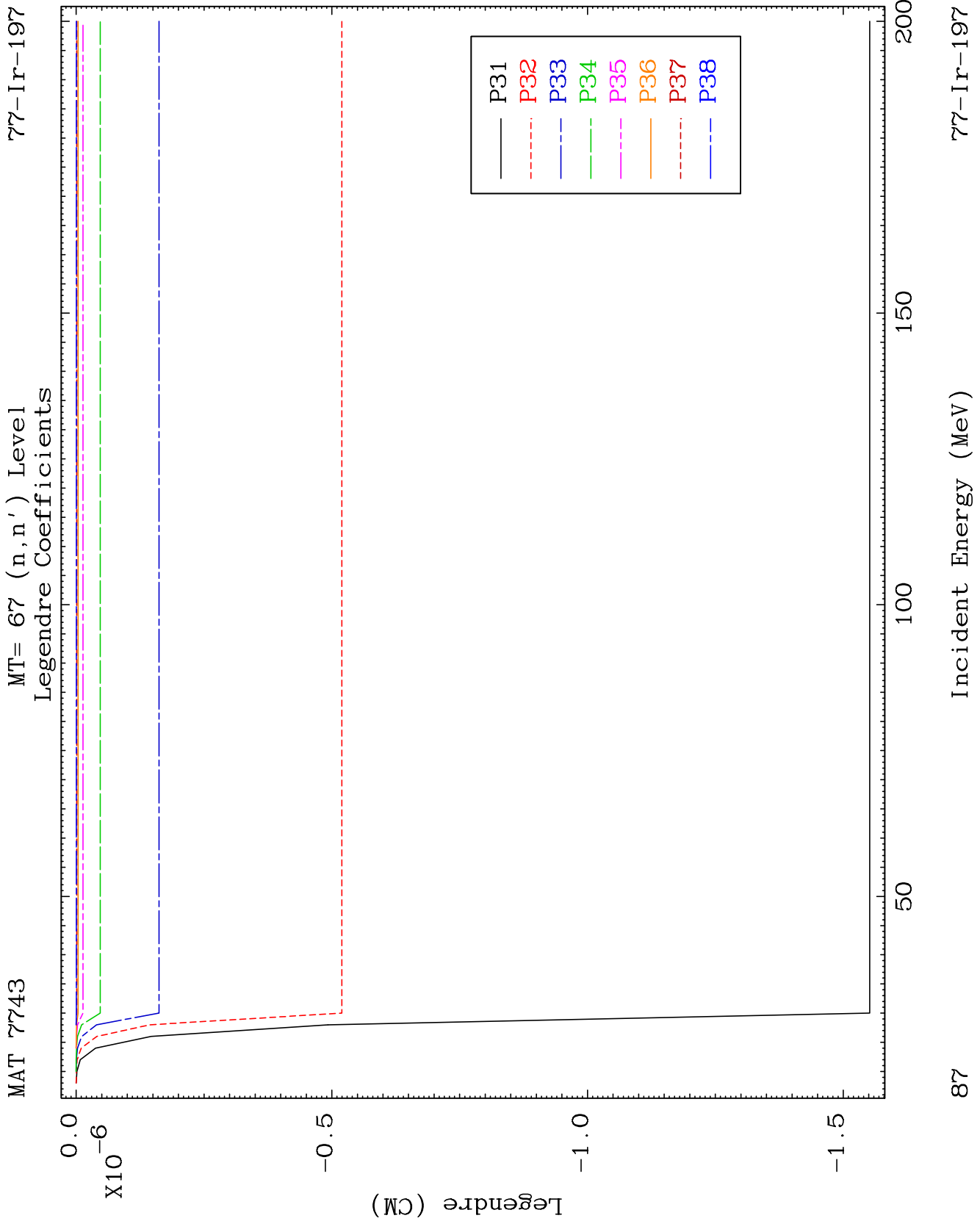
77-Ir-197



86

Incident Energy (MeV)

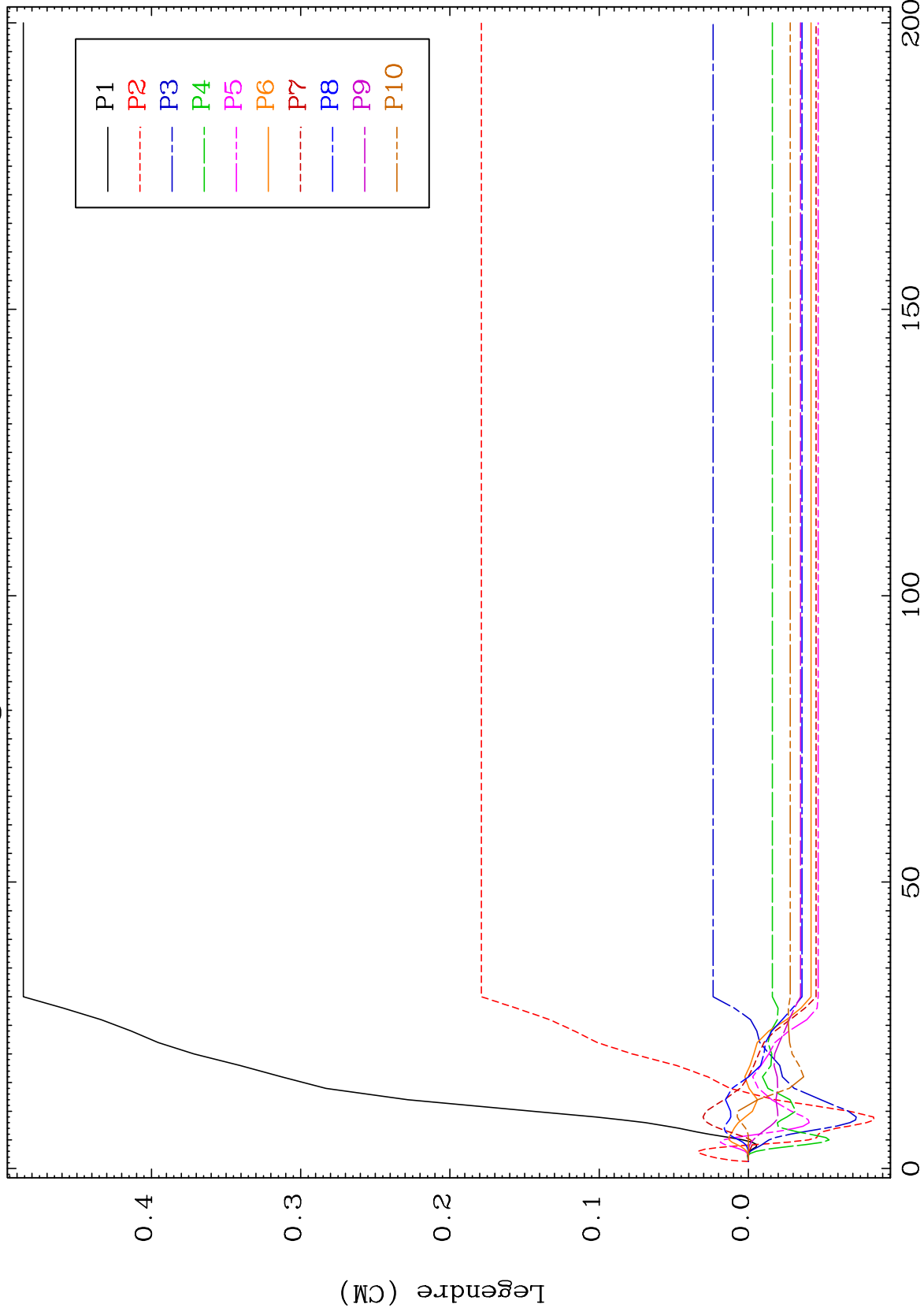
77-Ir-197



MAT 7743

MT= 68 (n,n') Level
Legendre Coefficients

77-Ir-197



88

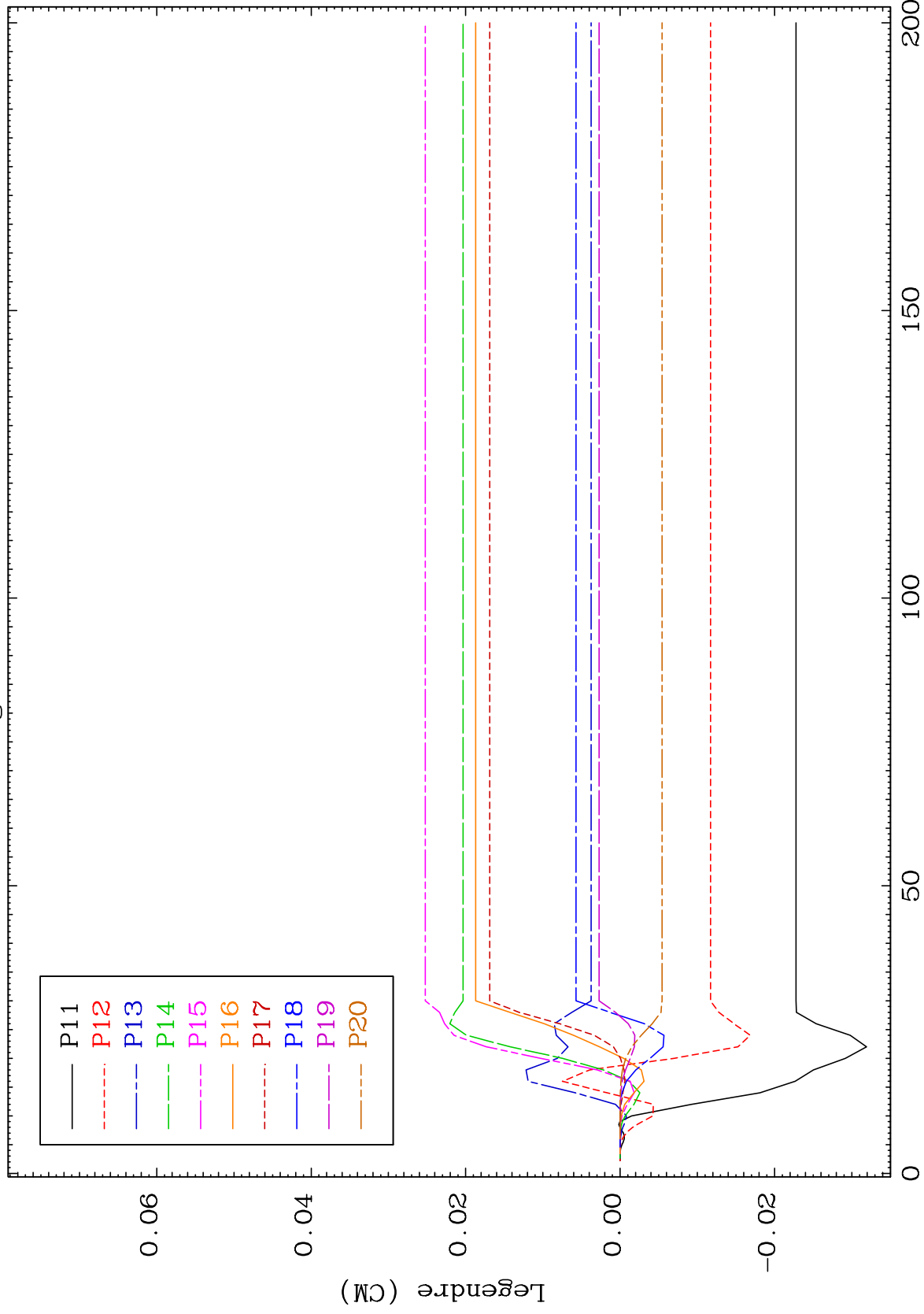
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 68 (n,n') Level
Legendre Coefficients

77-Ir-197



89

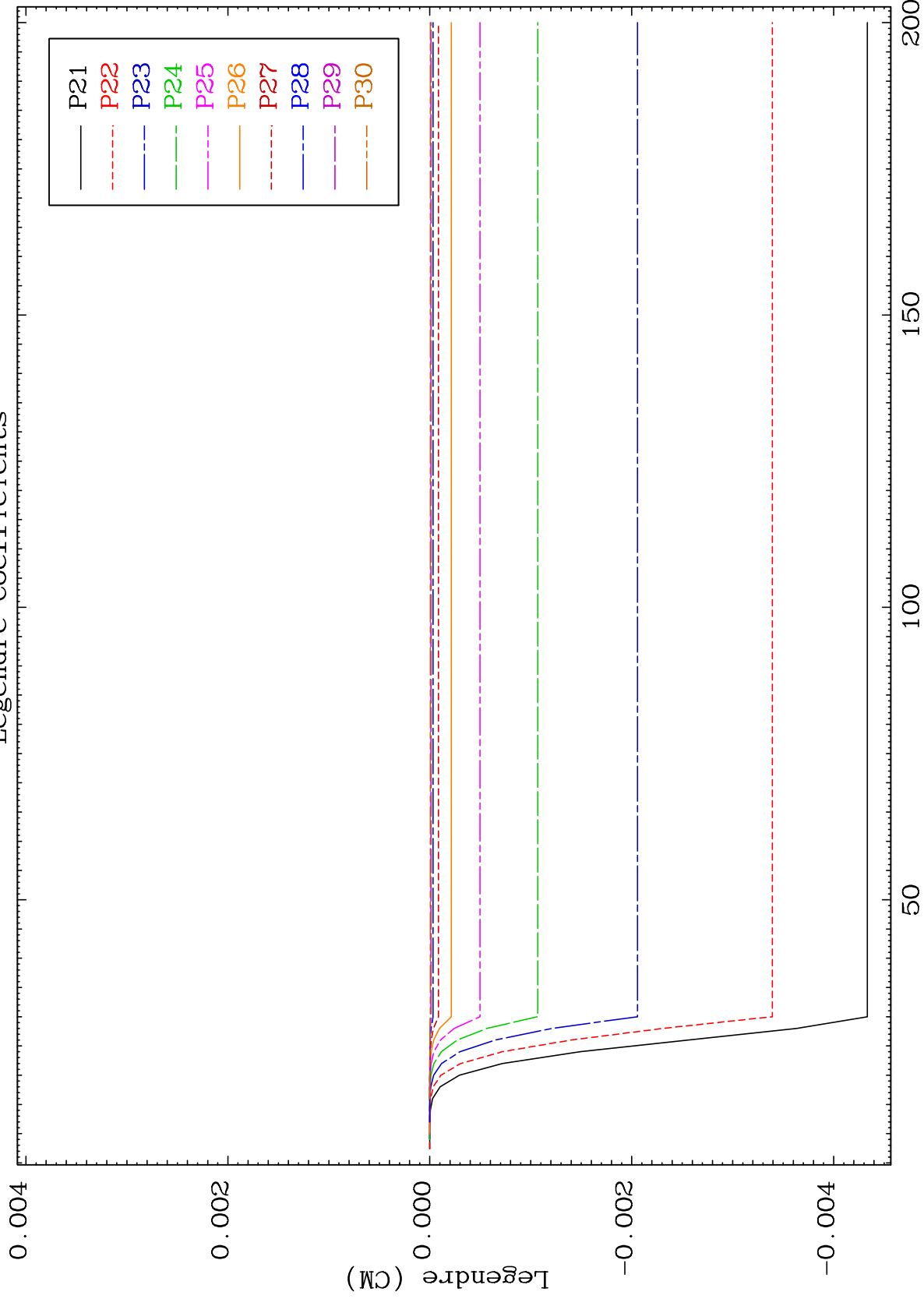
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 68 (n,n') Level
Legendre Coefficients

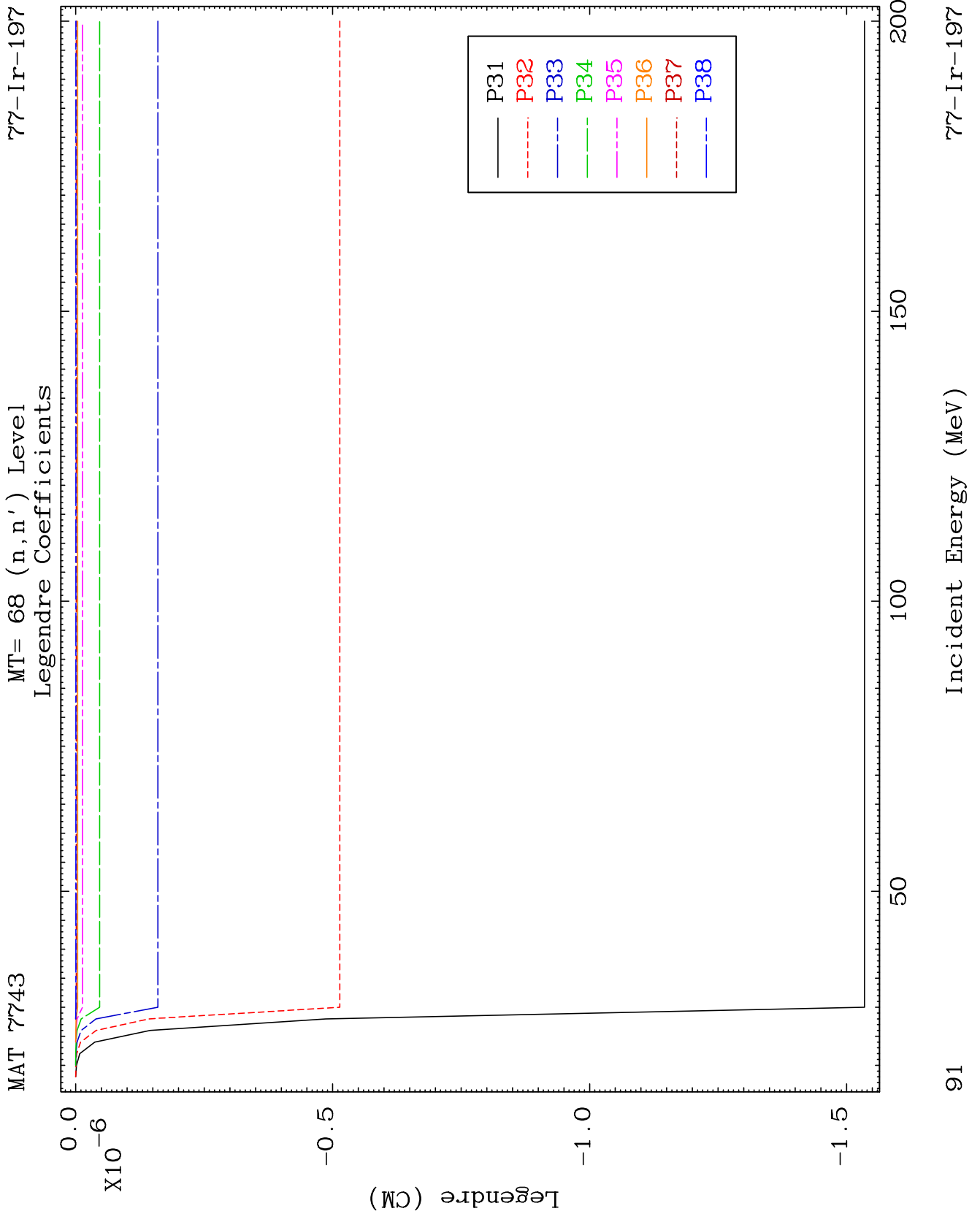
77-Ir-197



90

Incident Energy (MeV)

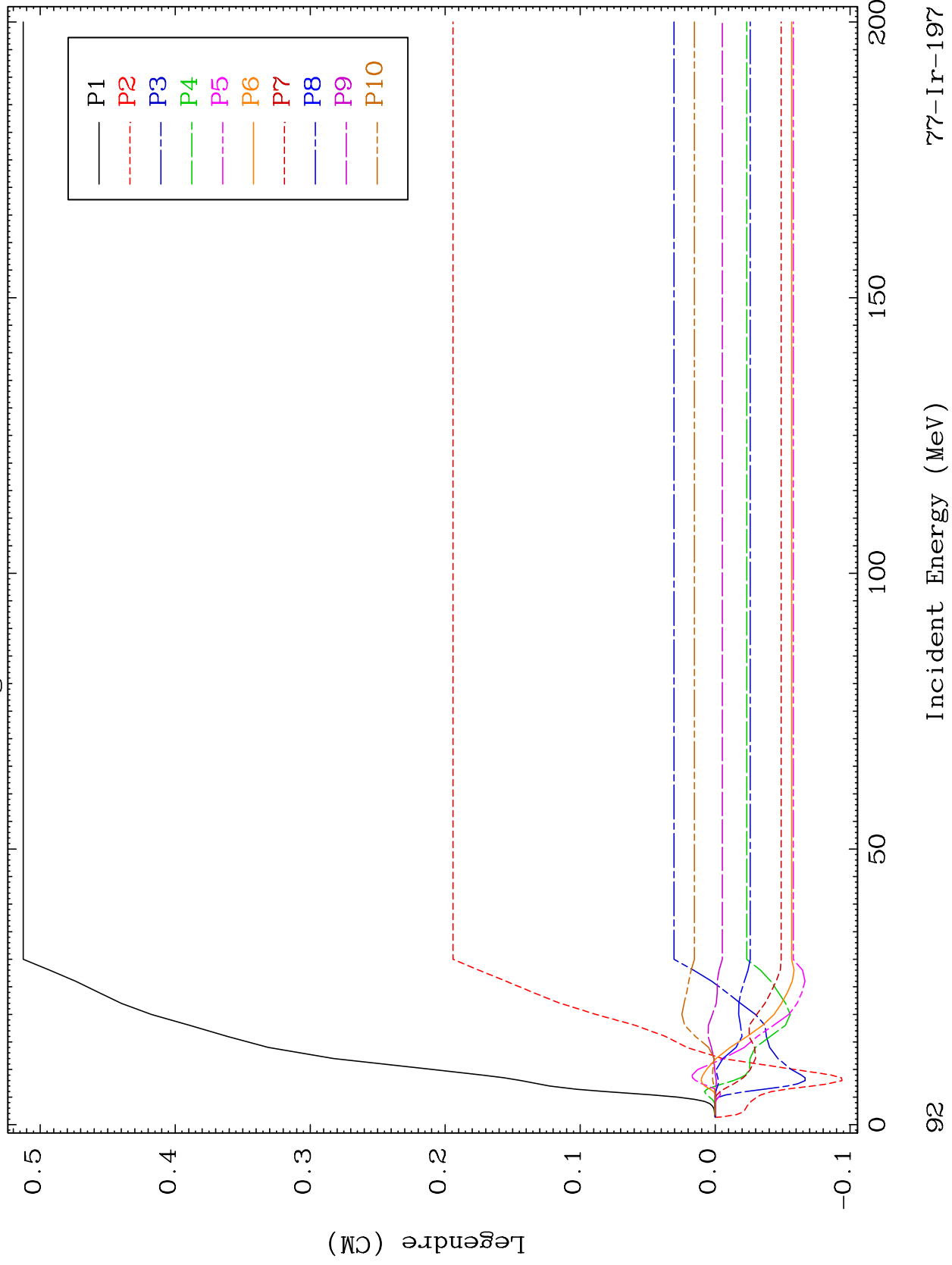
77-Ir-197



MAT 7743

MT= 69 (n,n') Level
Legendre Coefficients

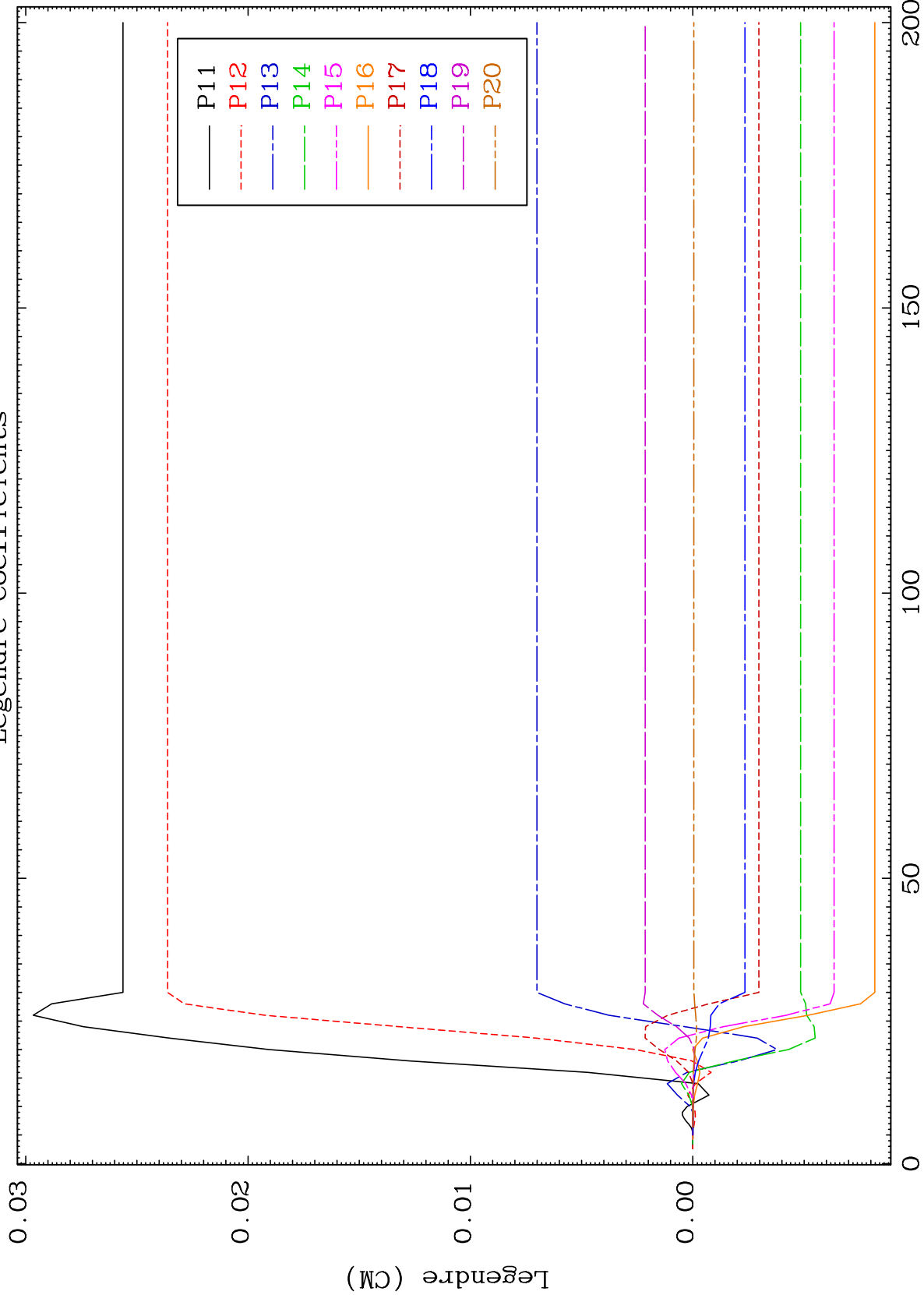
77-Ir-197



MAT 7743

MT= 69 (n,n') Level
Legendre Coefficients

77-Ir-197



93

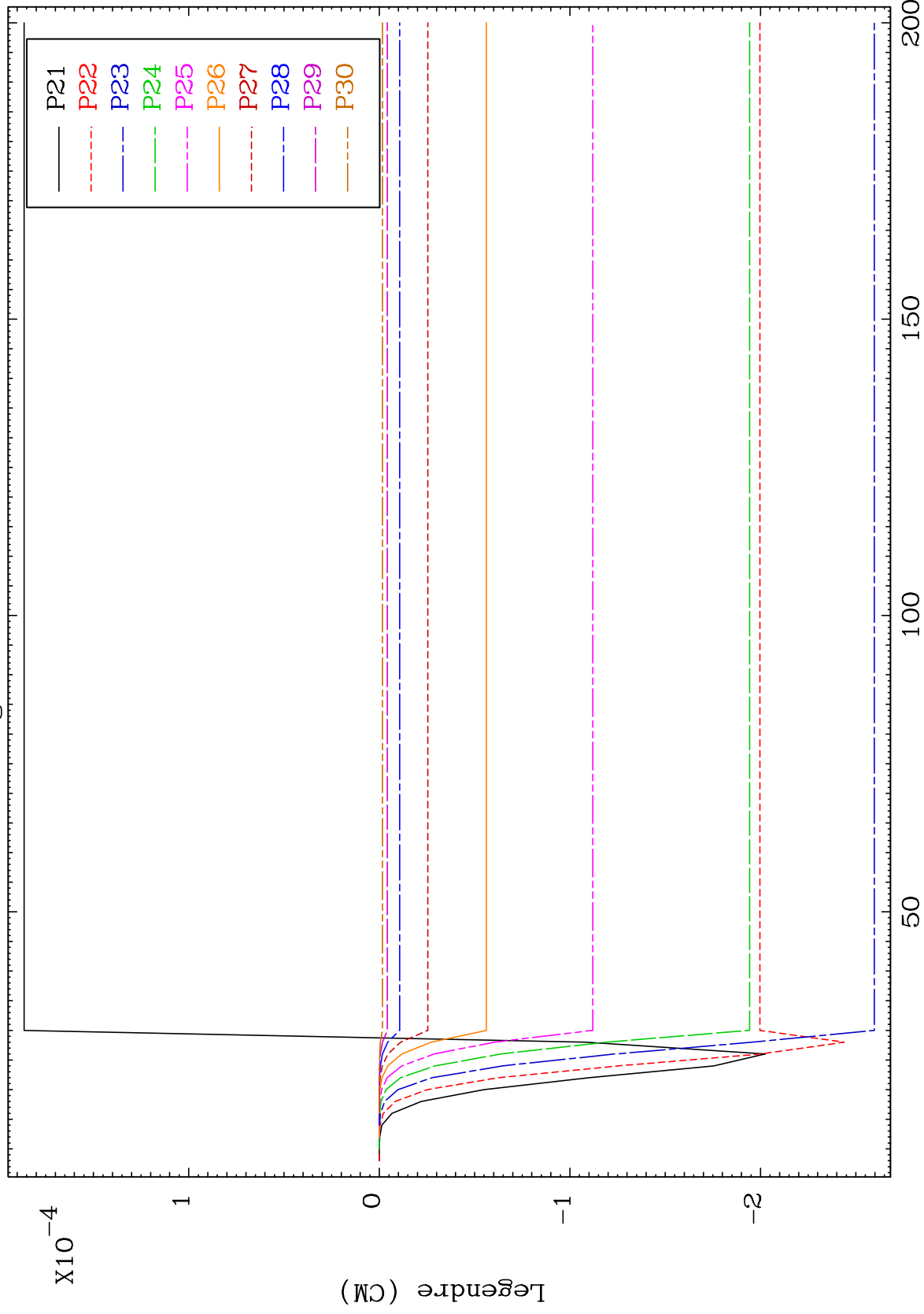
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 69 (n,n') Level
Legendre Coefficients

77-Ir-197



94

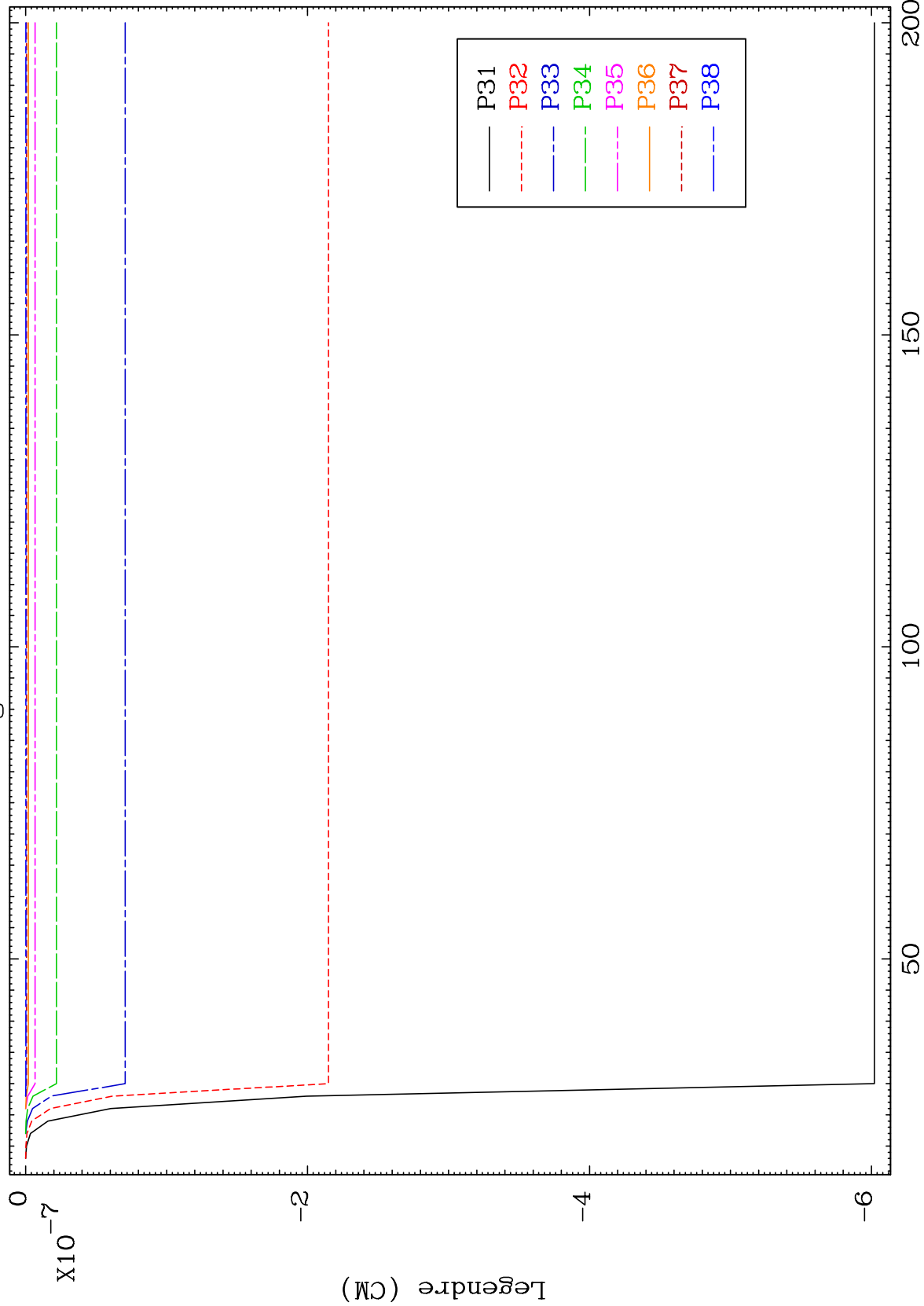
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 69 (n,n') Level Legendre Coefficients

77-Ir-197



77-Ir-197

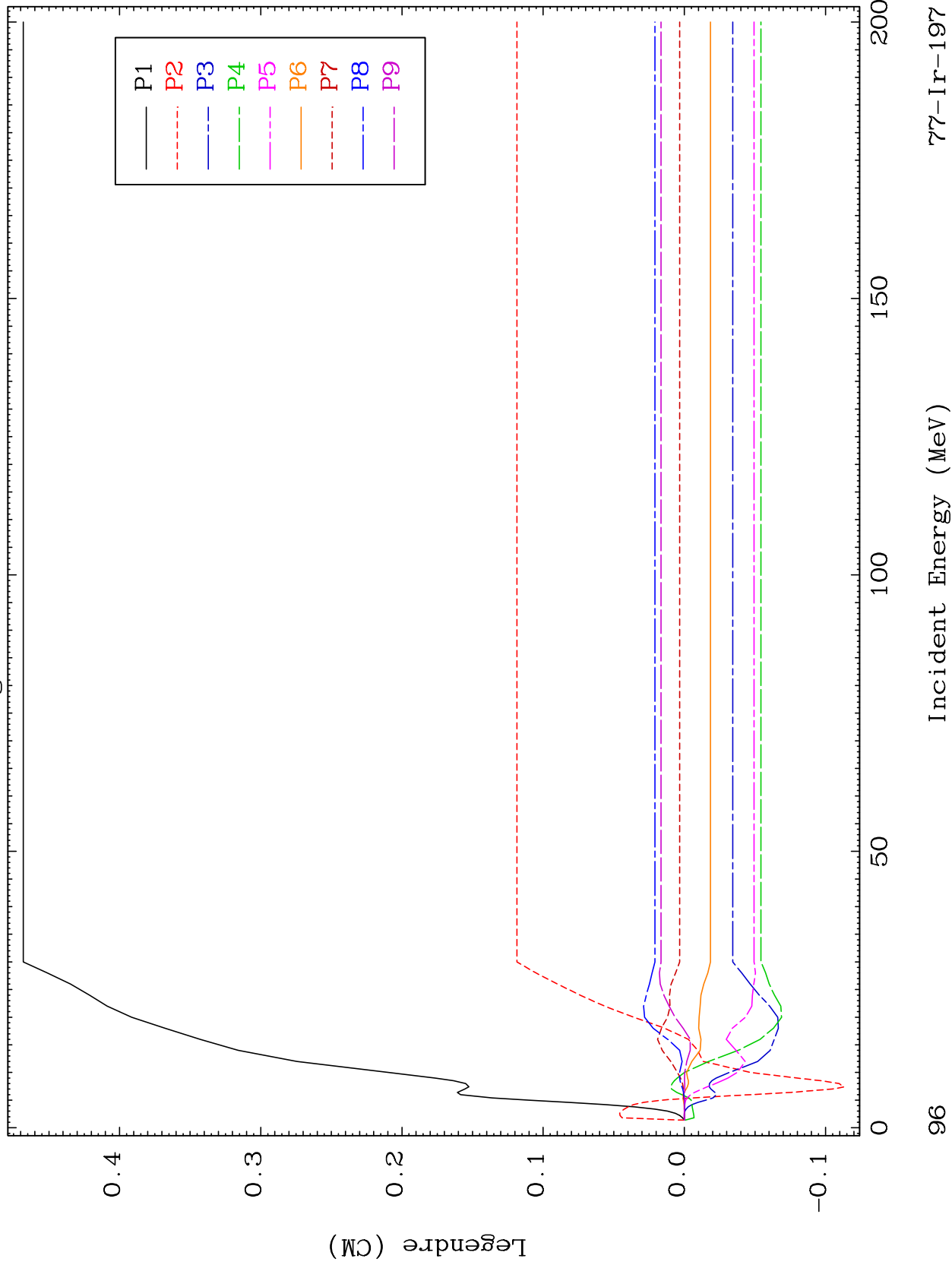
Incident Energy (MeV)

95

MAT 7743

MT= 70 (n,n') Level
Legendre Coefficients

77-Ir-197

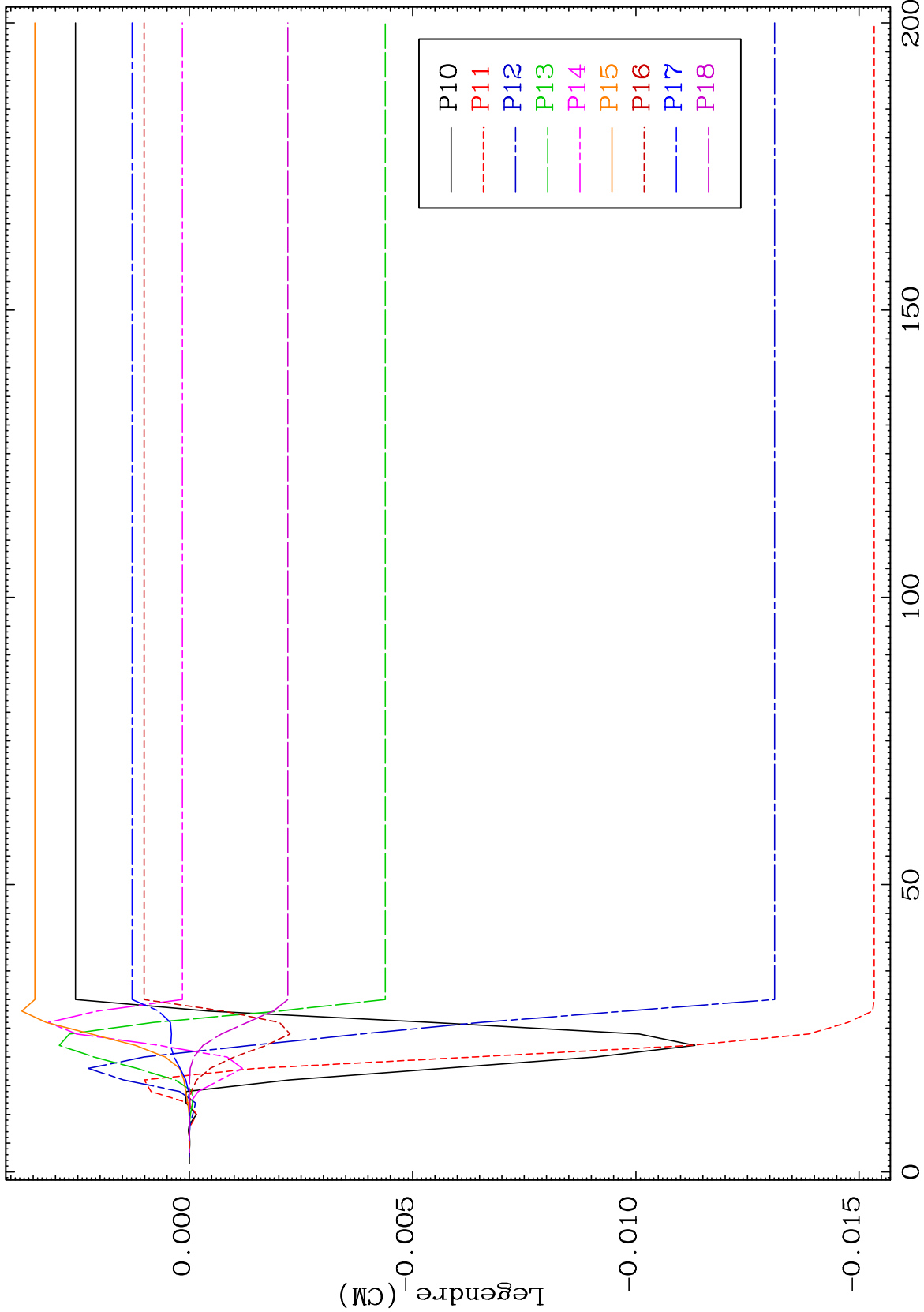


77-Ir-197

MAT 7743

MT= 70 (n,n') Level
Legendre Coefficients

77-Ir-197



97

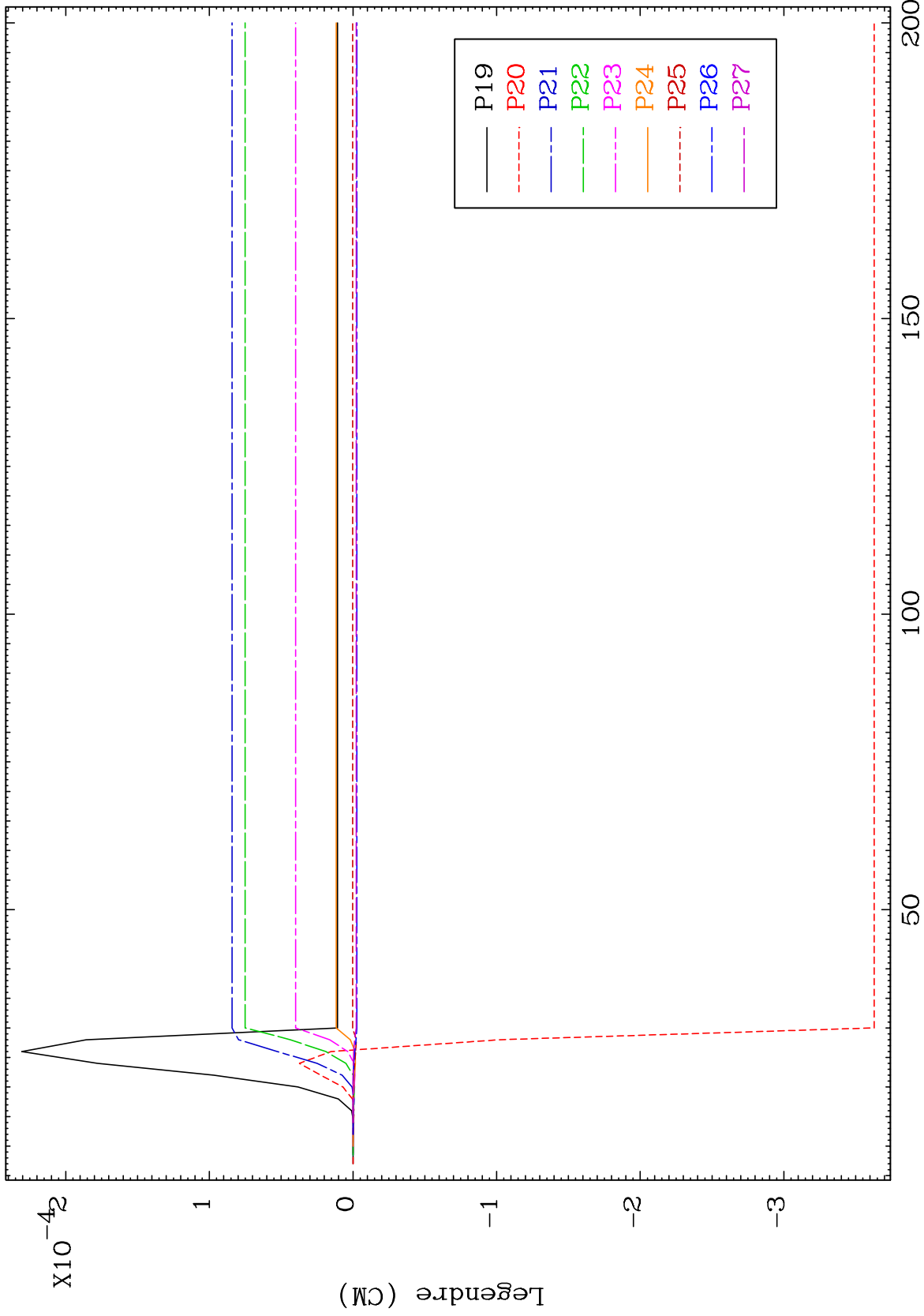
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 70 (n,n') Level
Legendre Coefficients

77-Ir-197



98

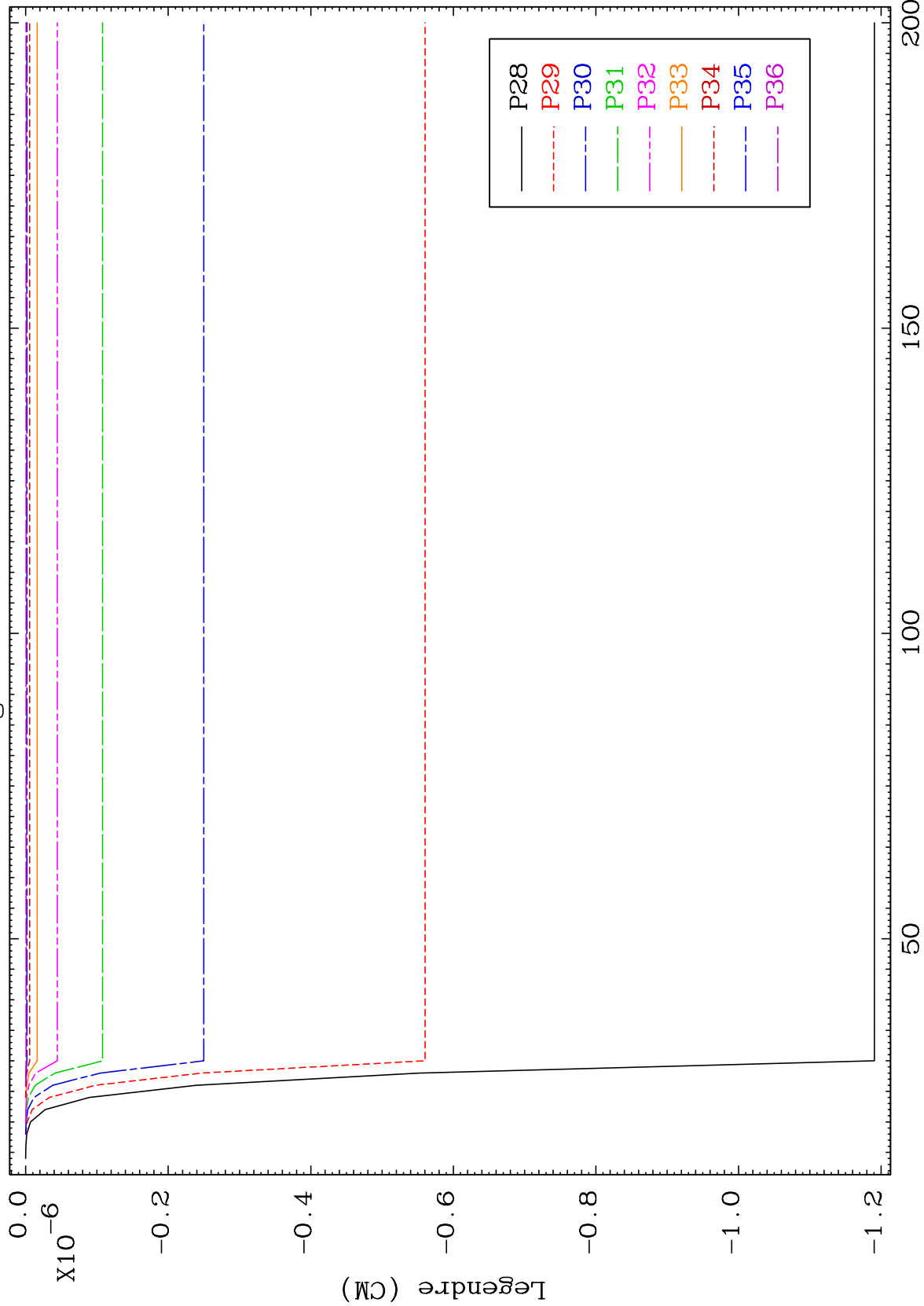
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 70 (n,n') Level
Legendre Coefficients

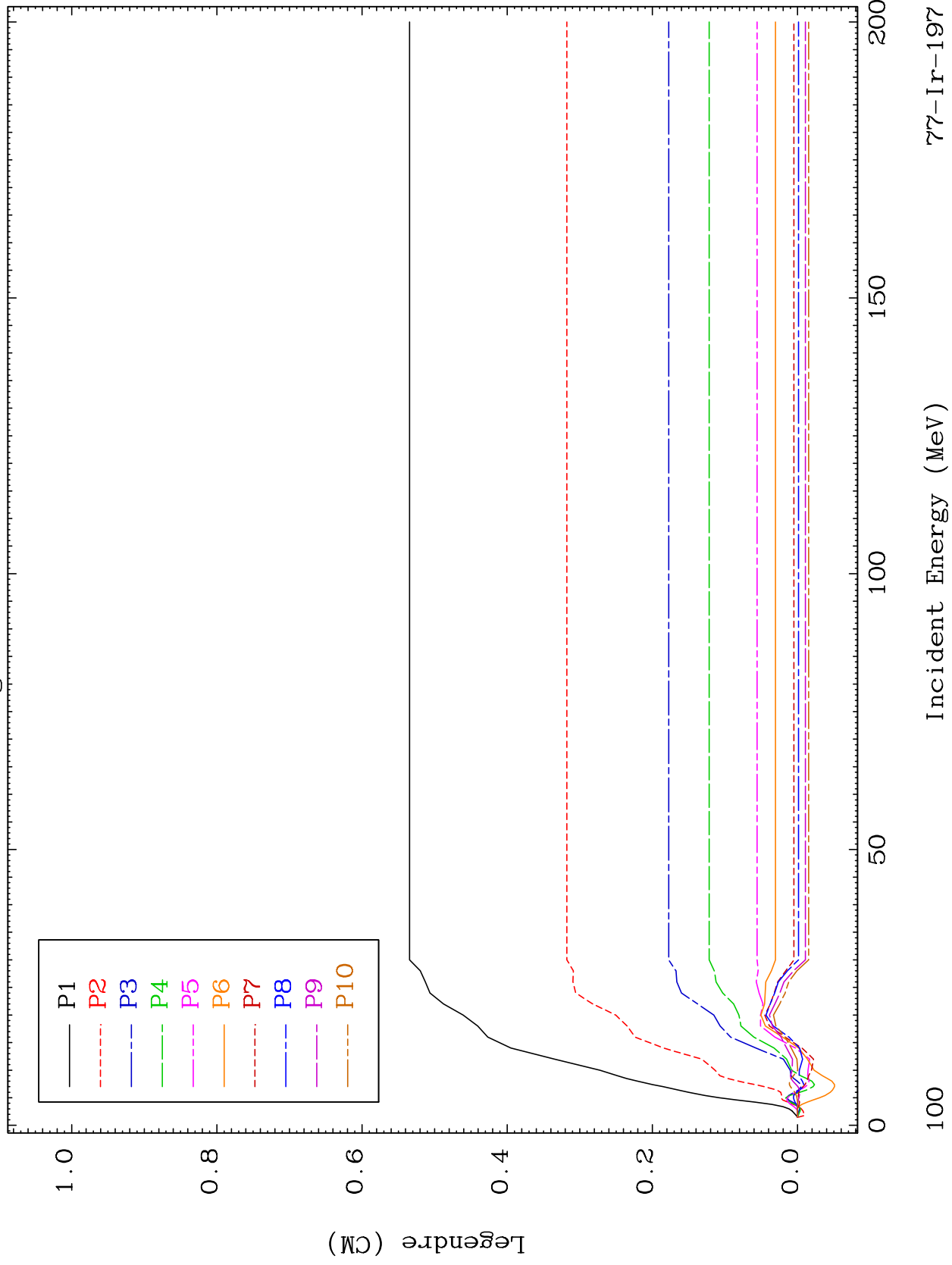
77-Ir-197



MAT 7743

MT= 71 (n,n') Level
Legendre Coefficients

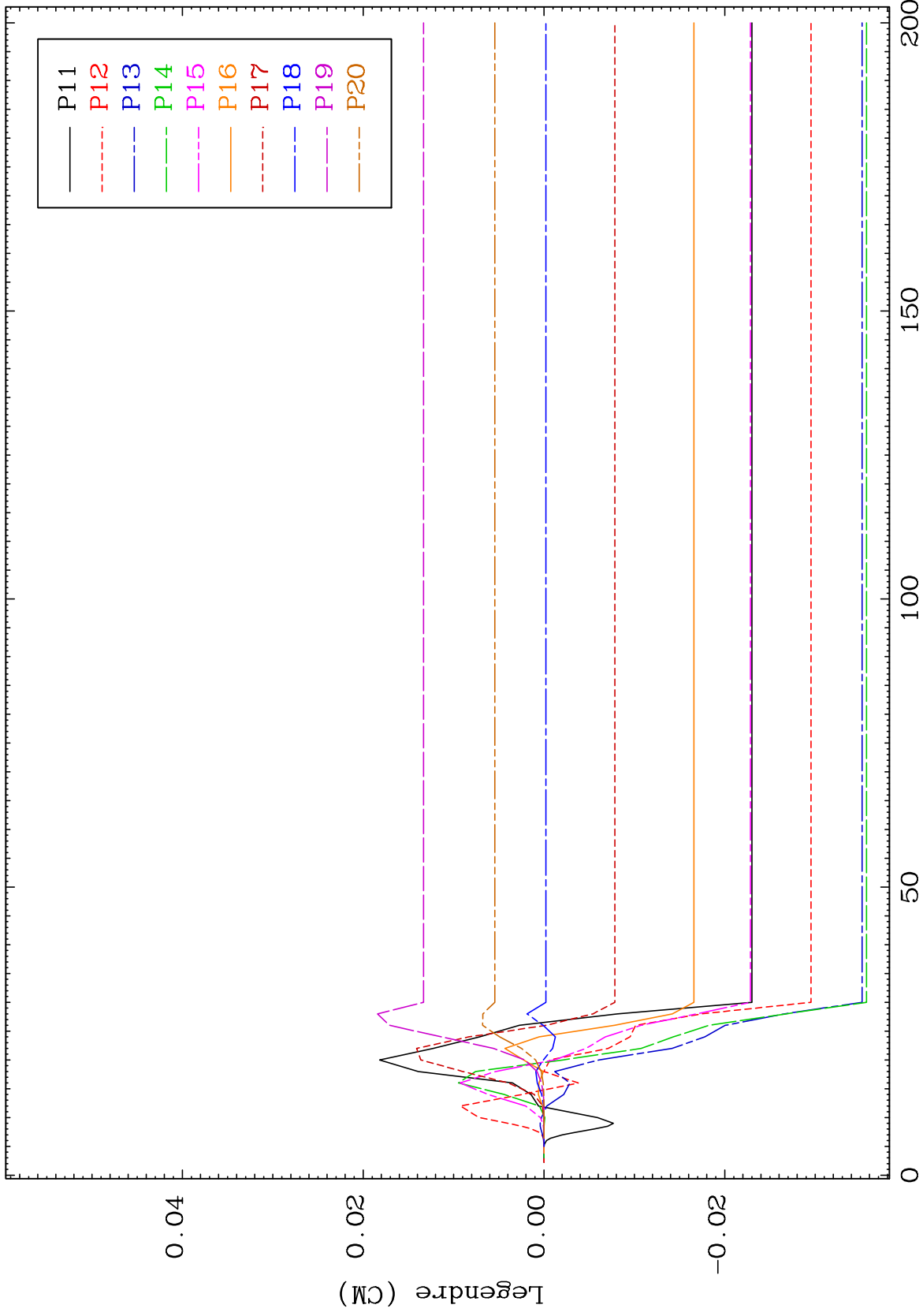
77-Ir-197



MAT 7743

MT= 71 (n,n') Level
Legendre Coefficients

77-Ir-197



101

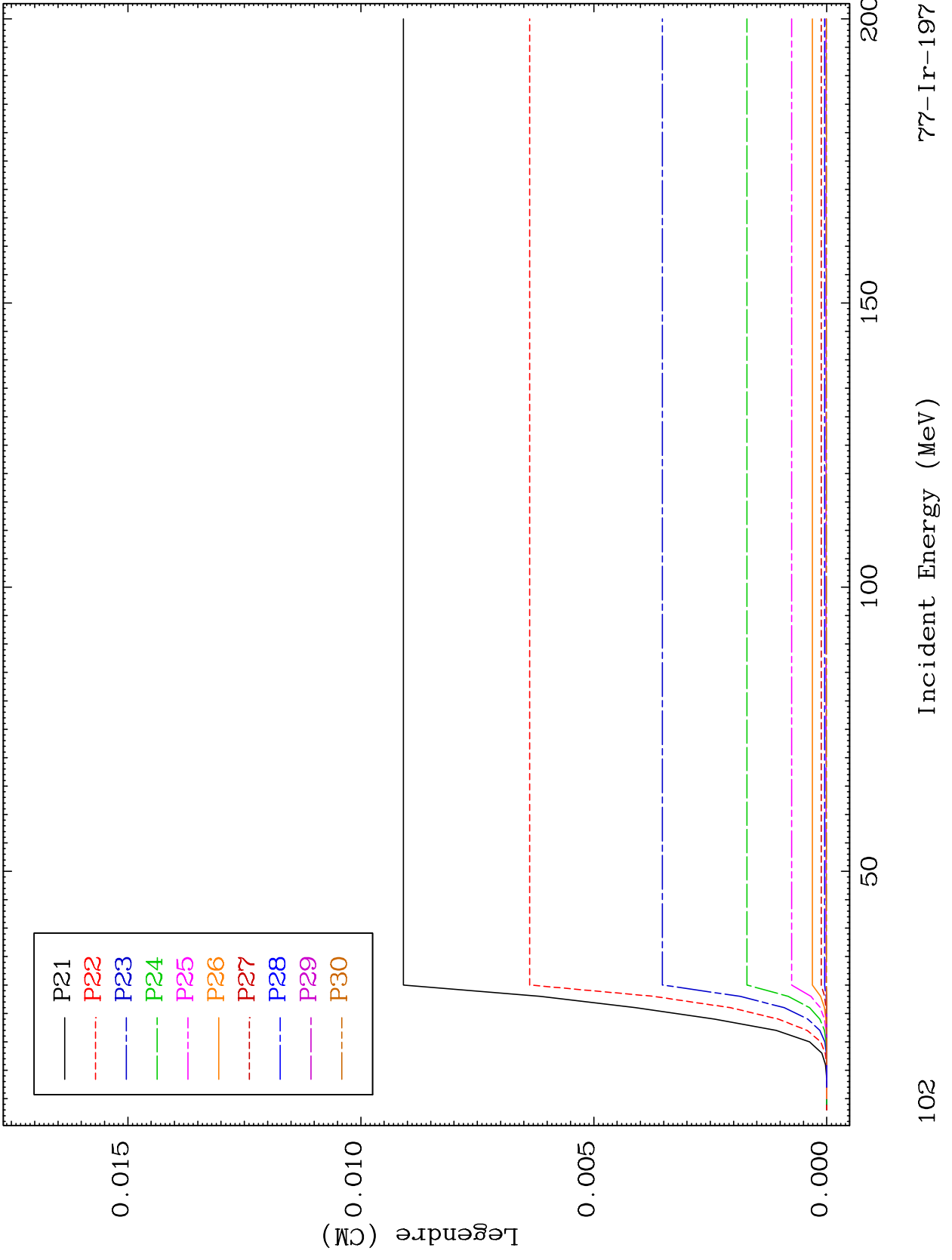
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 71 (n,n') Level
Legendre Coefficients

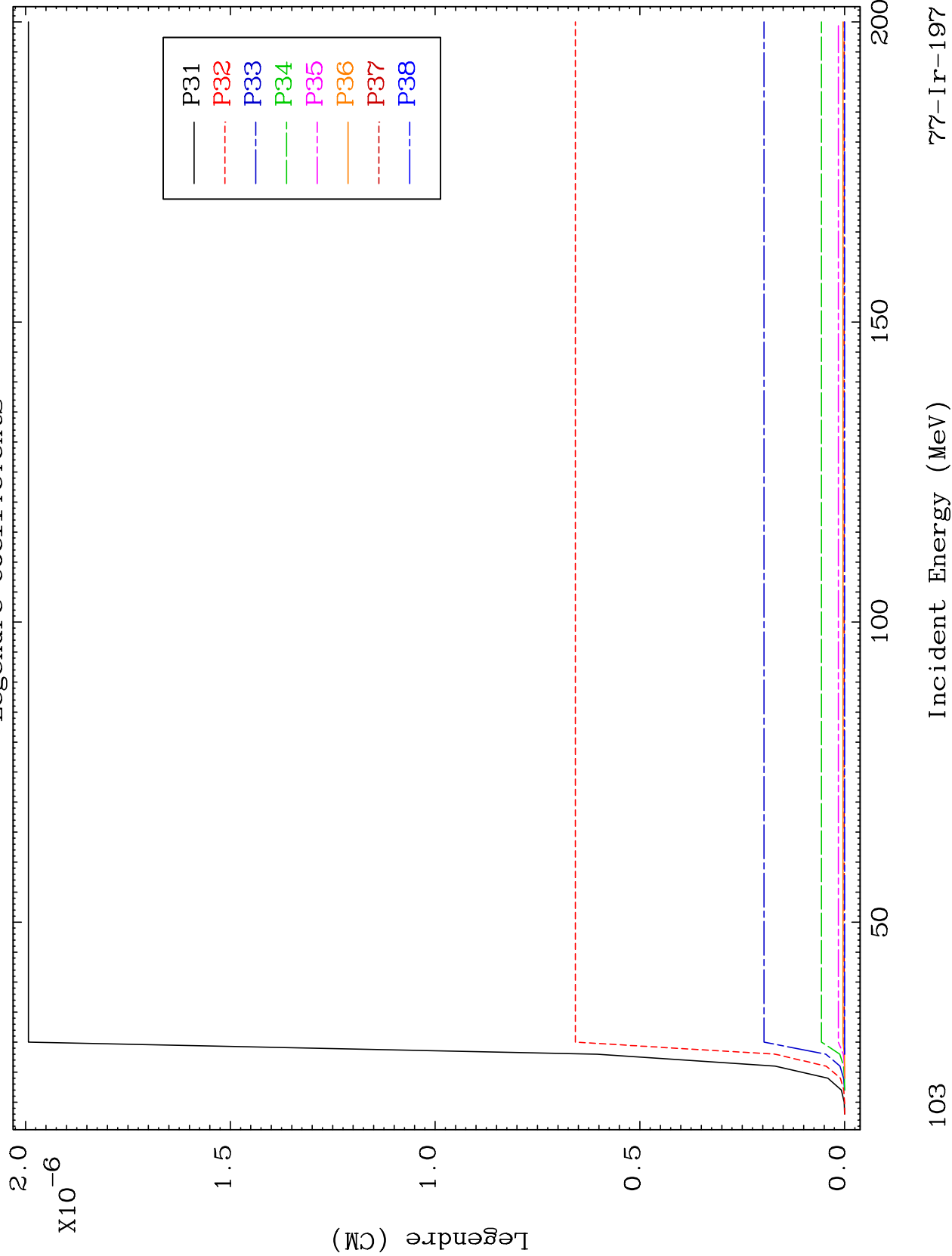
77-Ir-197



MAT 7743

MT= 71 (n,n') Level
Legendre Coefficients

77-Ir-197



77-Ir-197

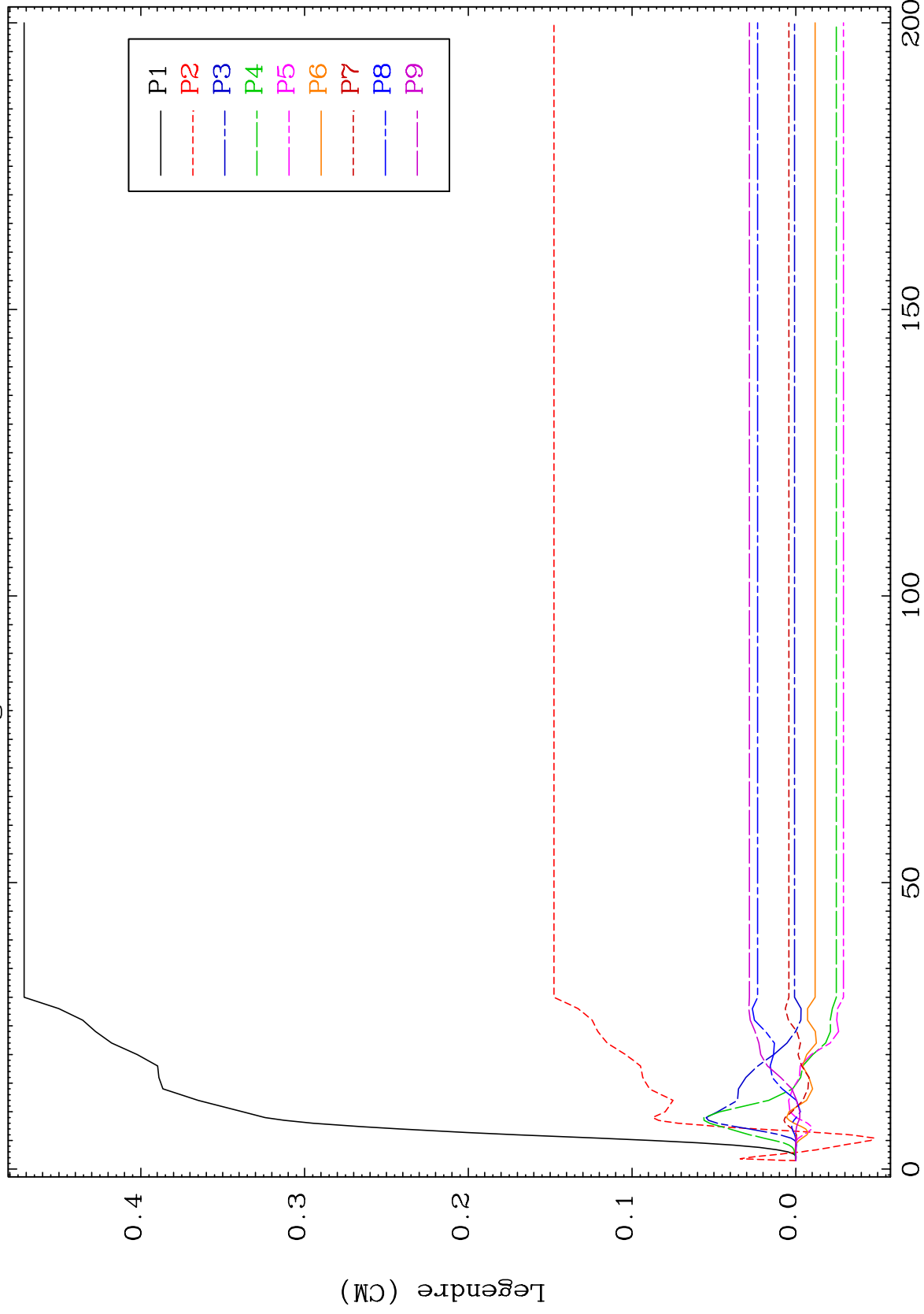
Incident Energy (MeV)

103

MAT 7743

MT= 72 (n,n') Level
Legendre Coefficients

77-Ir-197



104

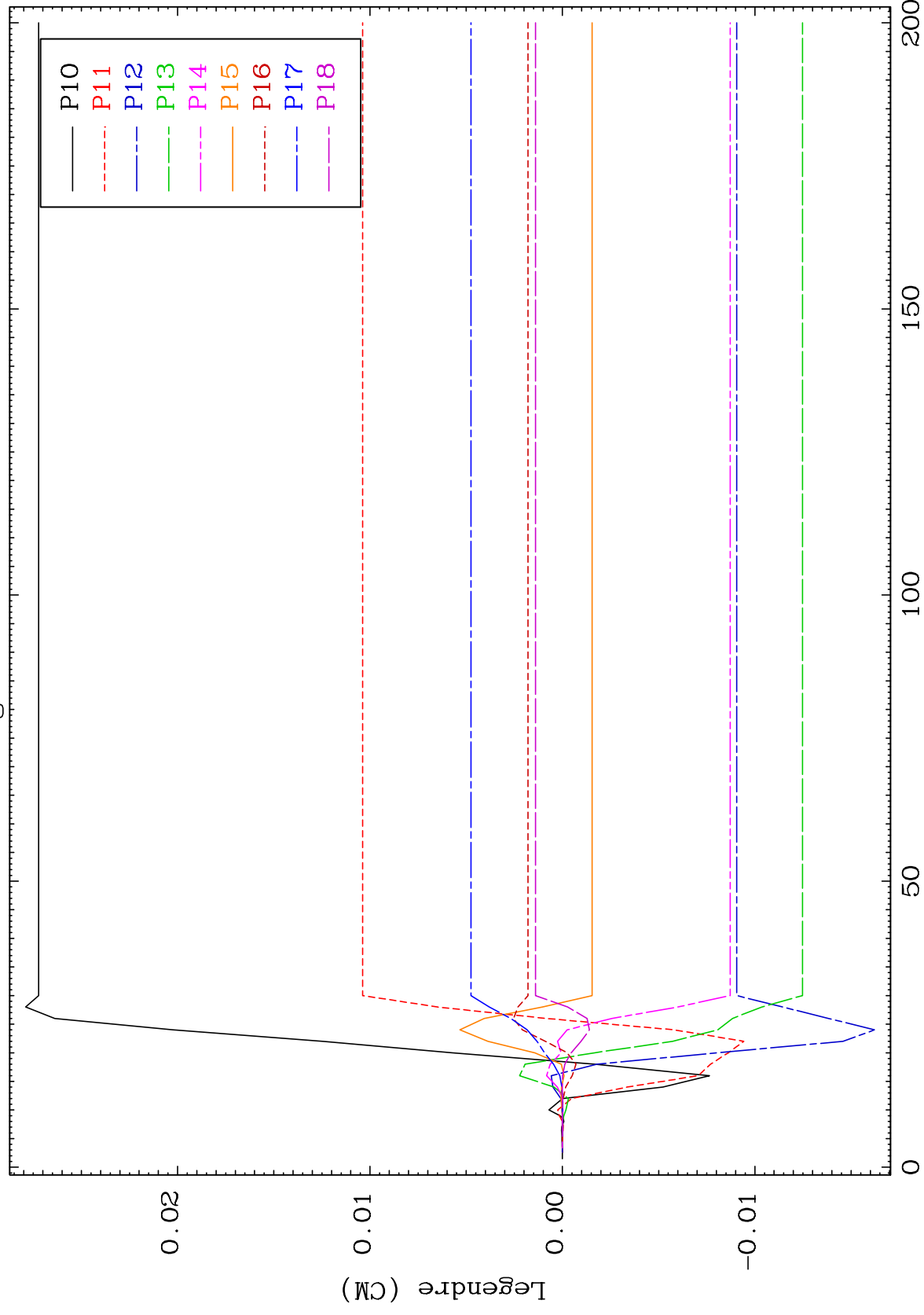
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 72 (n,n') Level
Legendre Coefficients

77-Ir-197



77-Ir-197

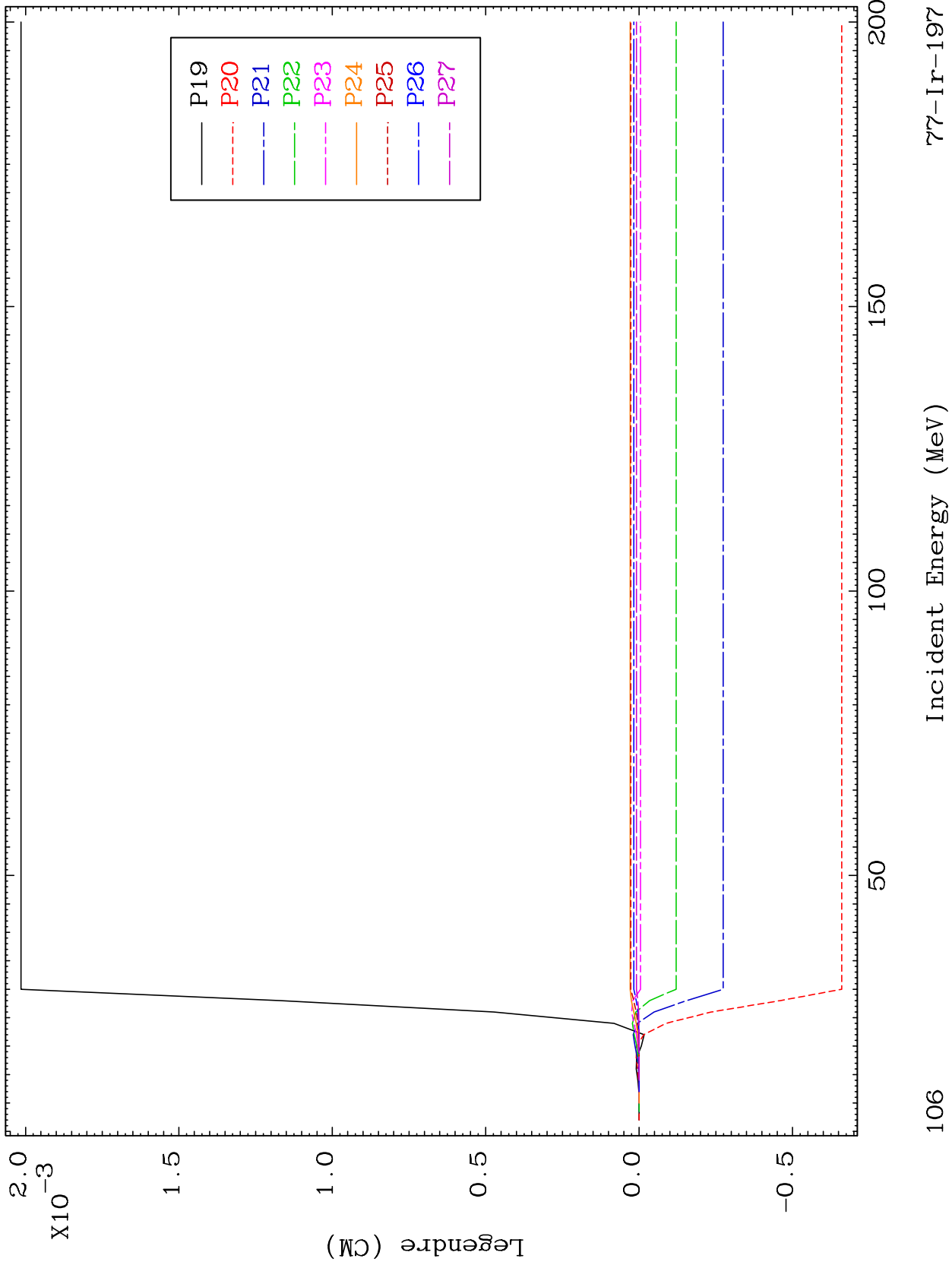
Incident Energy (MeV)

105

MAT 7743

MT= 72 (n,n') Level
Legendre Coefficients

77-Ir-197



106

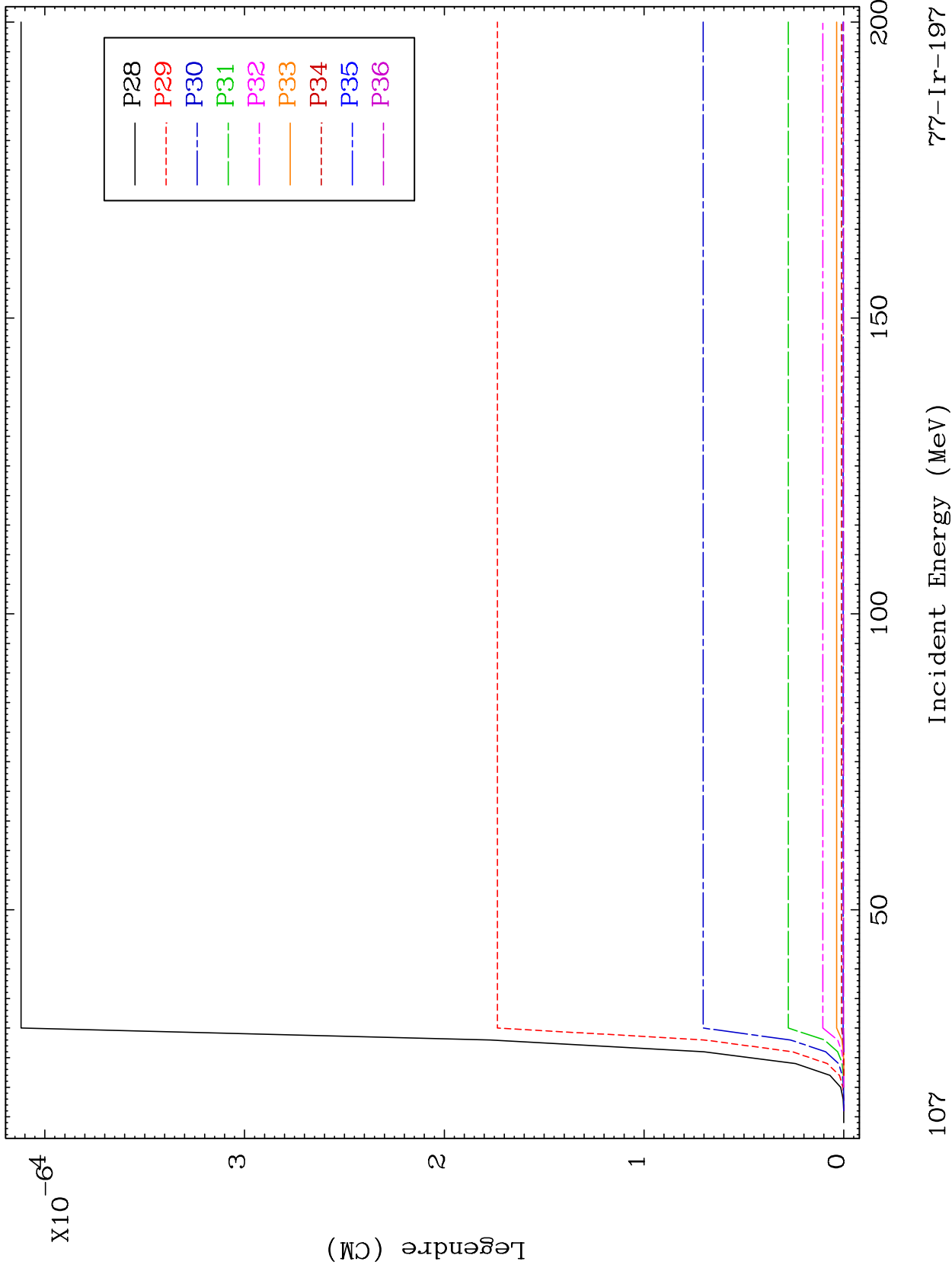
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 72 (n,n') Level
Legendre Coefficients

77-Ir-197

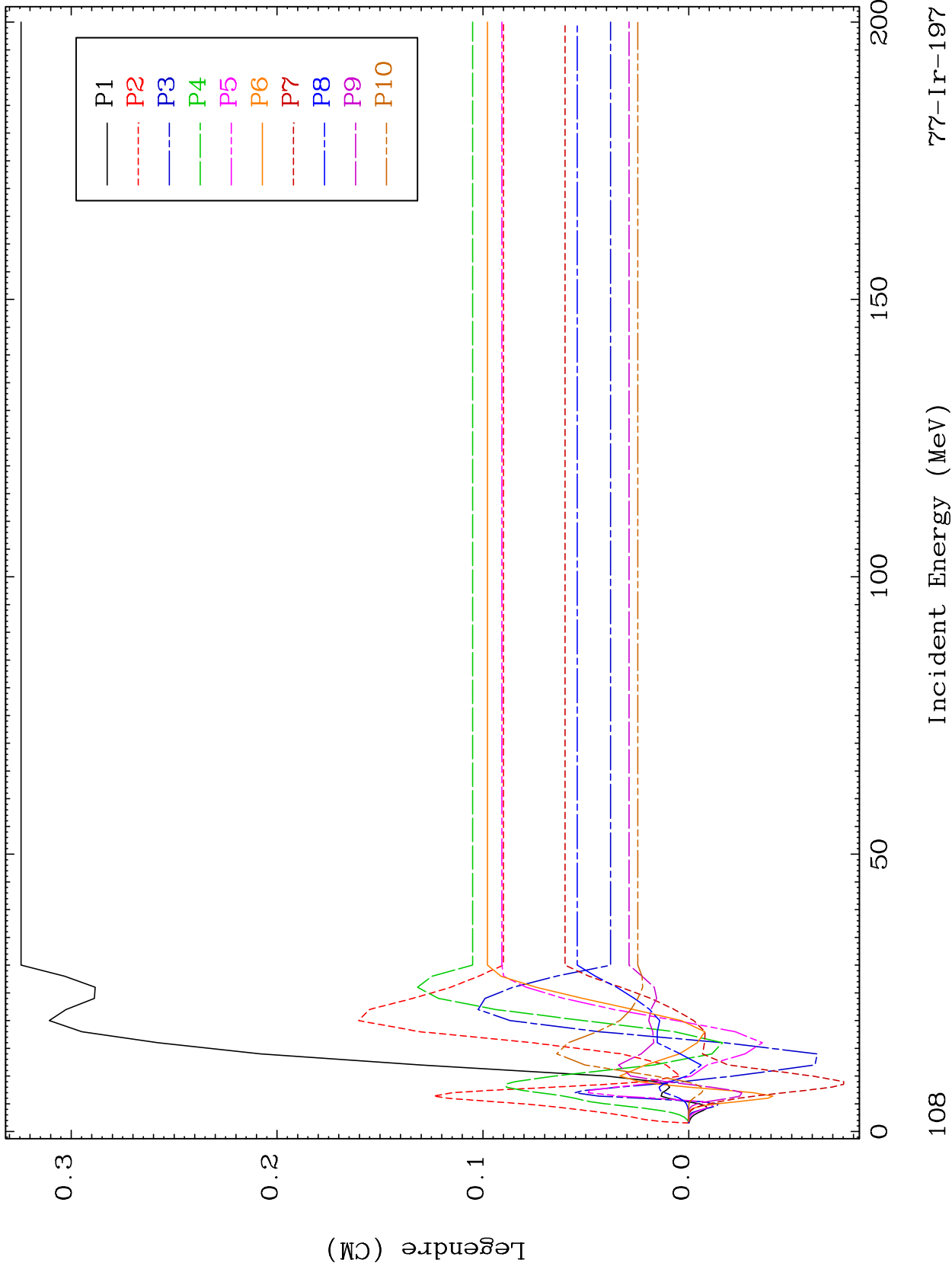


107

MAT 7743

MT= 73 (n,n') Level
Legendre Coefficients

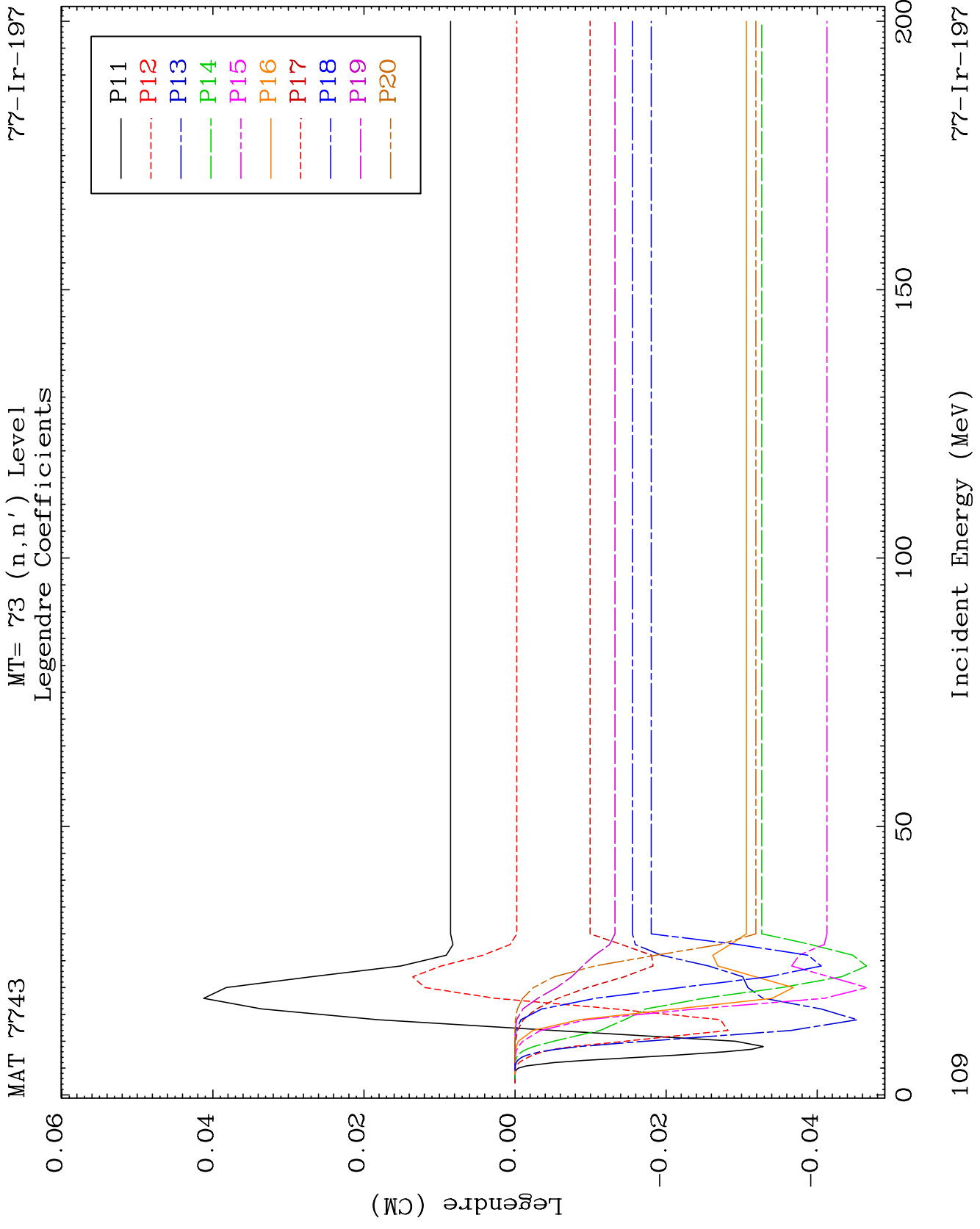
77-Ir-197



77-Ir-197

Incident Energy (MeV)

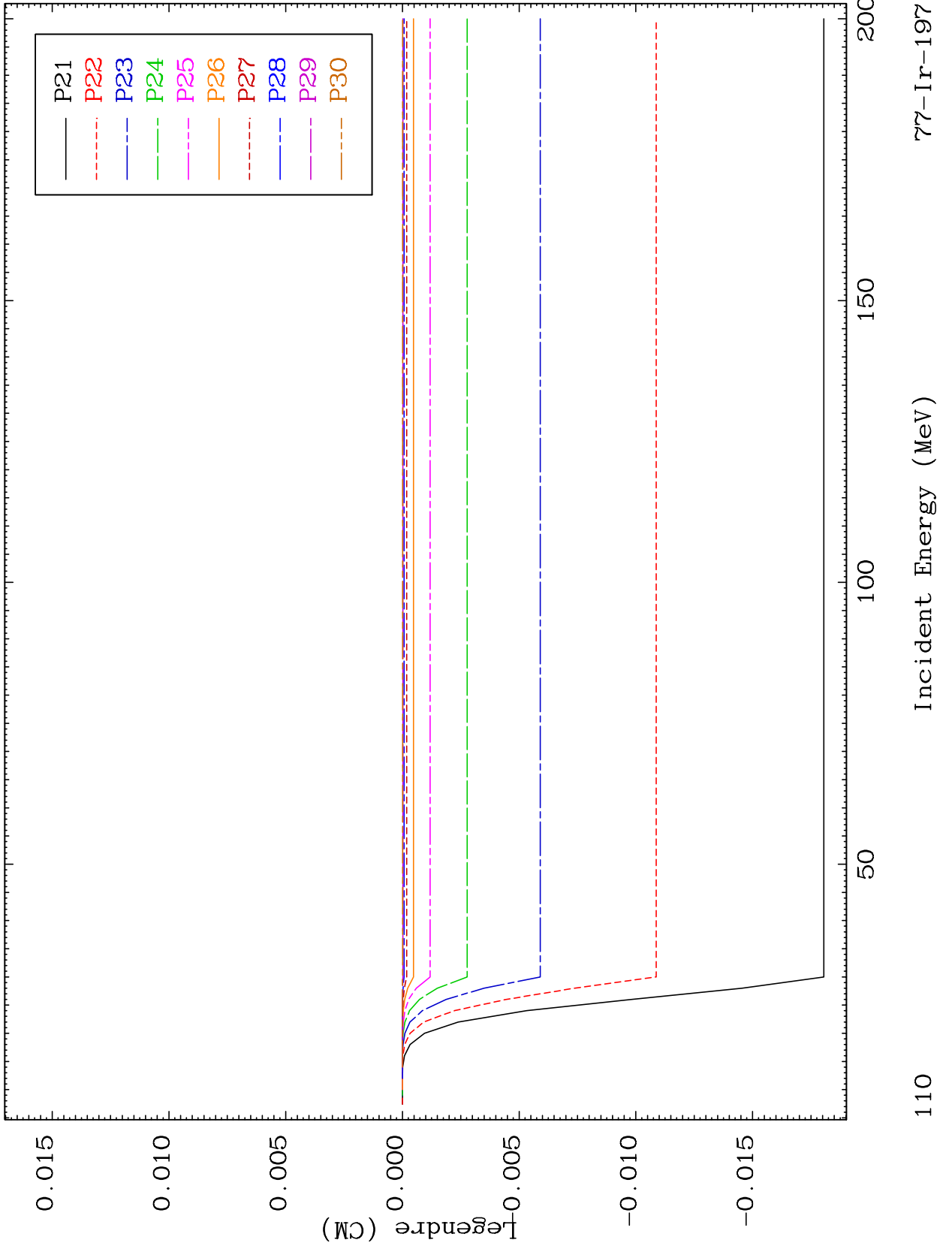
108



MAT 7743

MT= 73 (n,n') Level
Legendre Coefficients

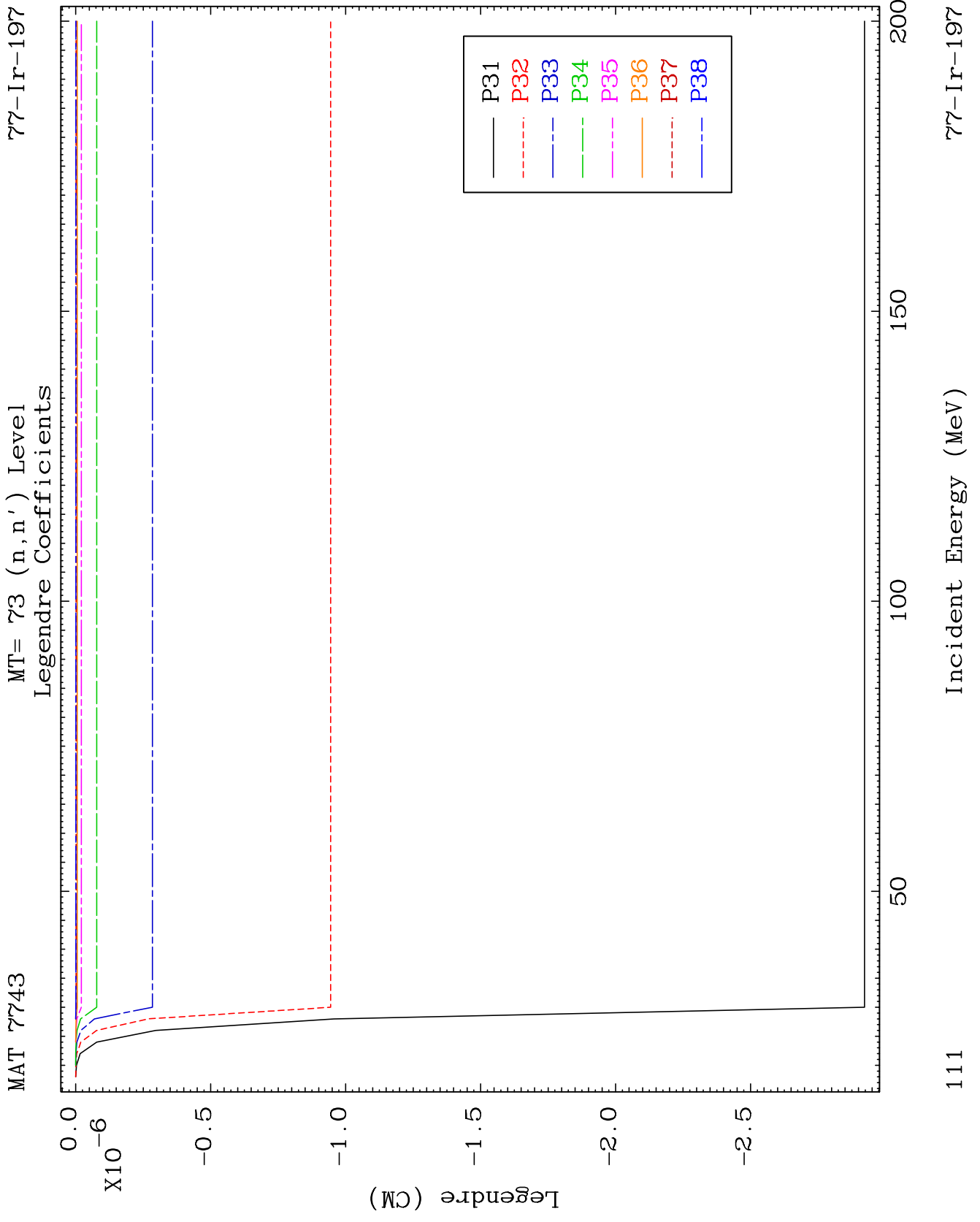
77-Ir-197



110

Incident Energy (MeV)

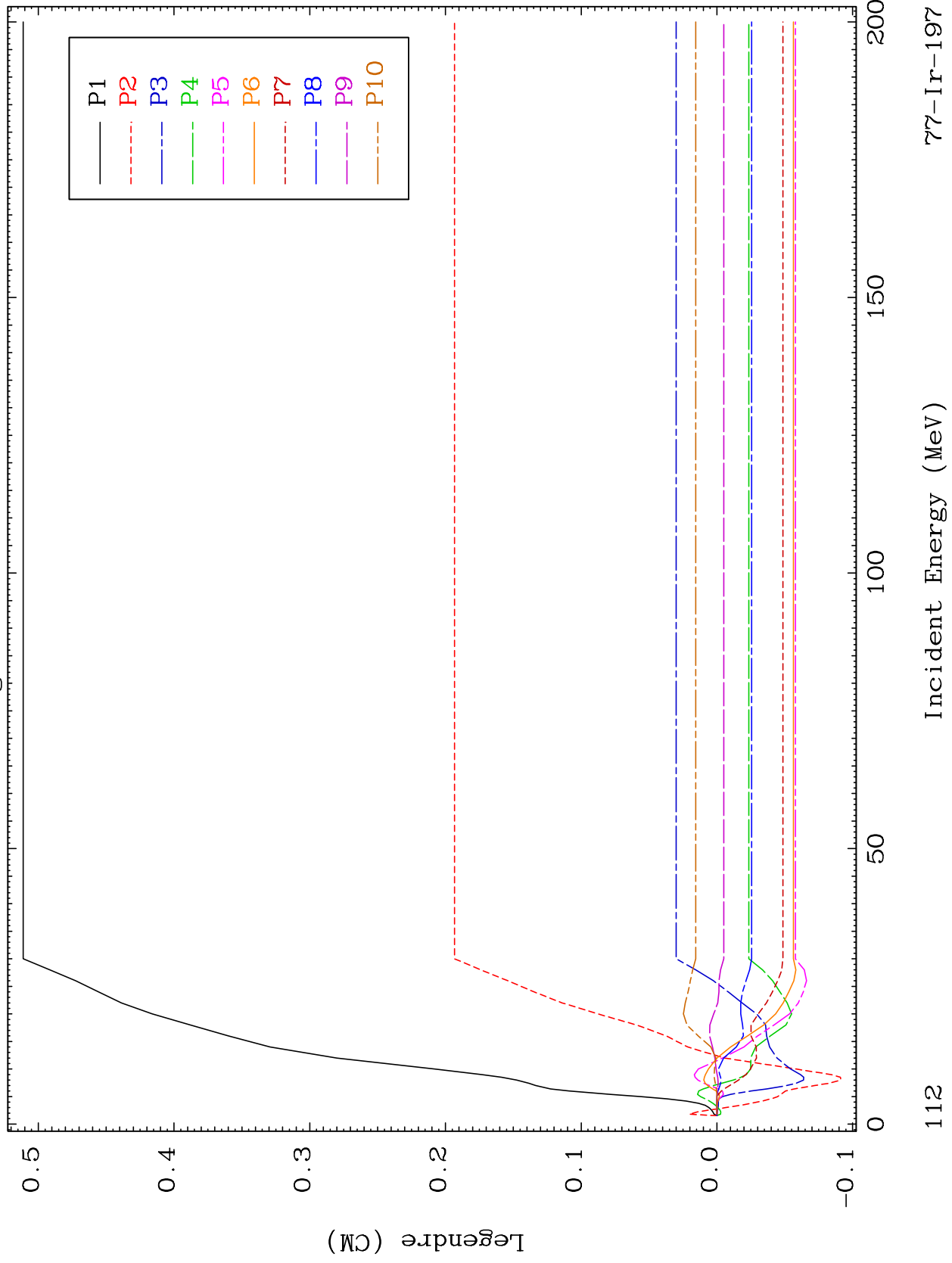
77-Ir-197



MAT 7743

MT= 74 (n,n') Level
Legendre Coefficients

77-Ir-197



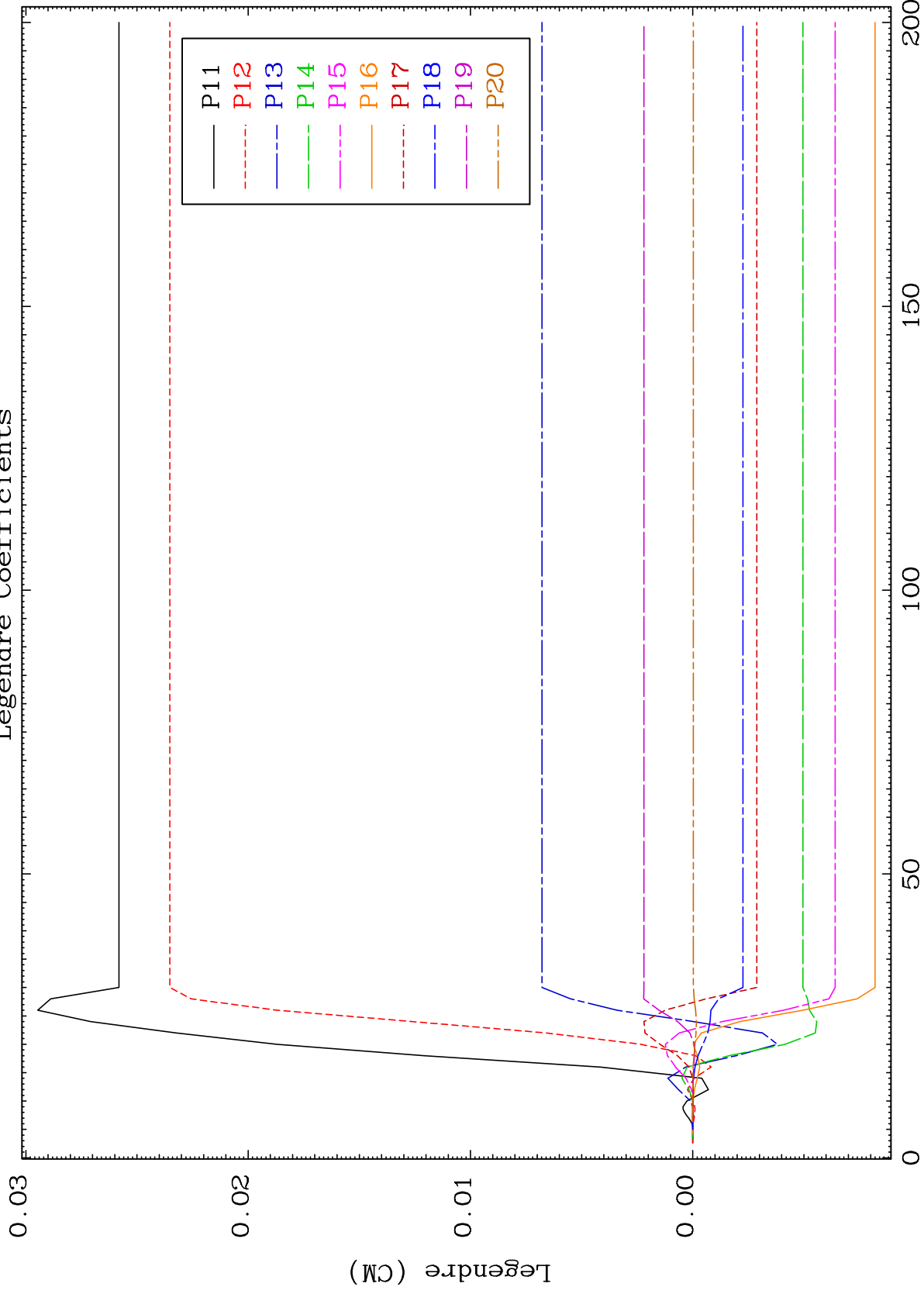
112

77-Ir-197

MAT 7743

MT= 74 (n,n') Level
Legendre Coefficients

77-Ir-197



113

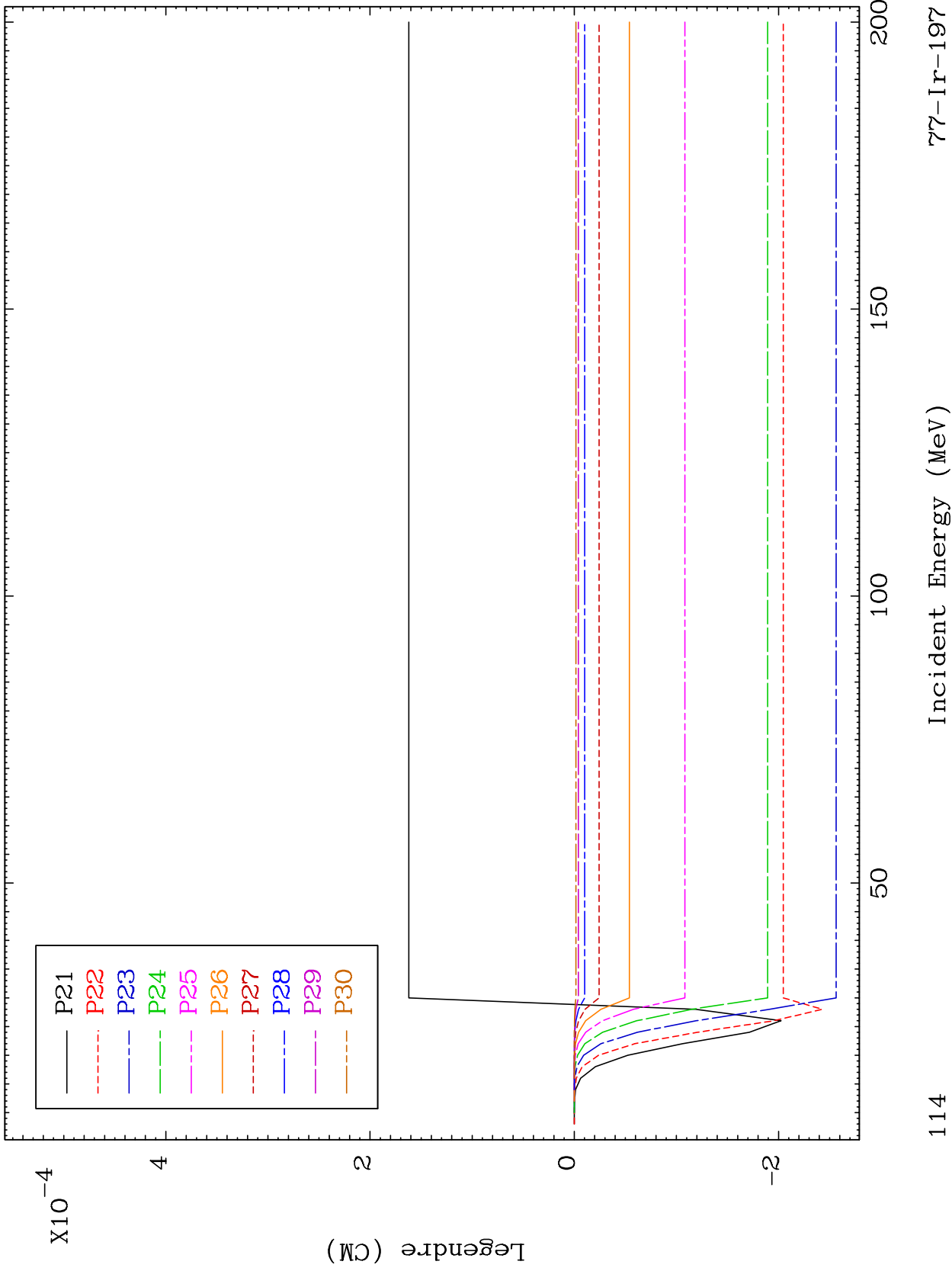
Incident Energy (MeV)

77-Ir-197

MAT 7743

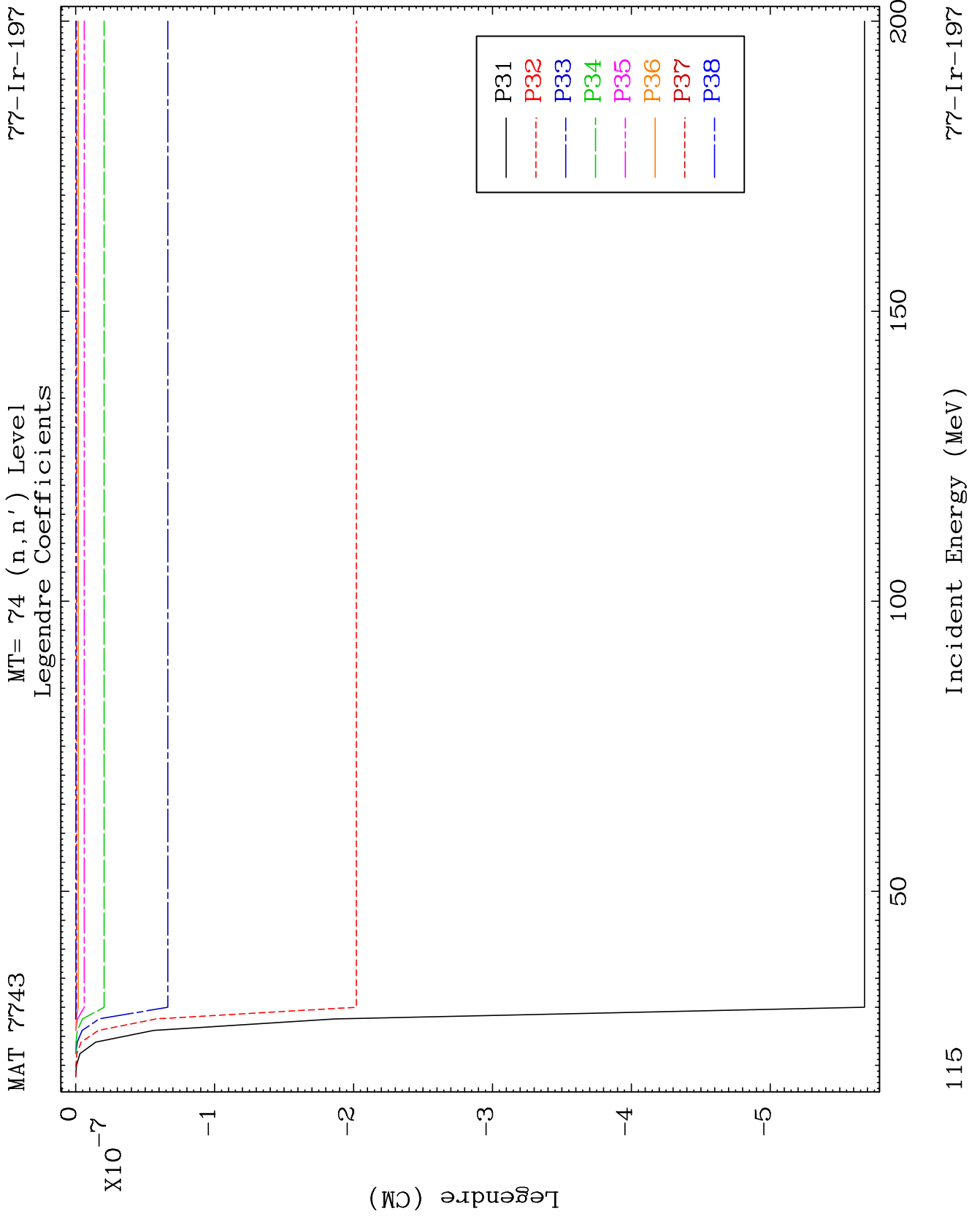
MT= 74 (n,n') Level
Legendre Coefficients

77-Ir-197



114

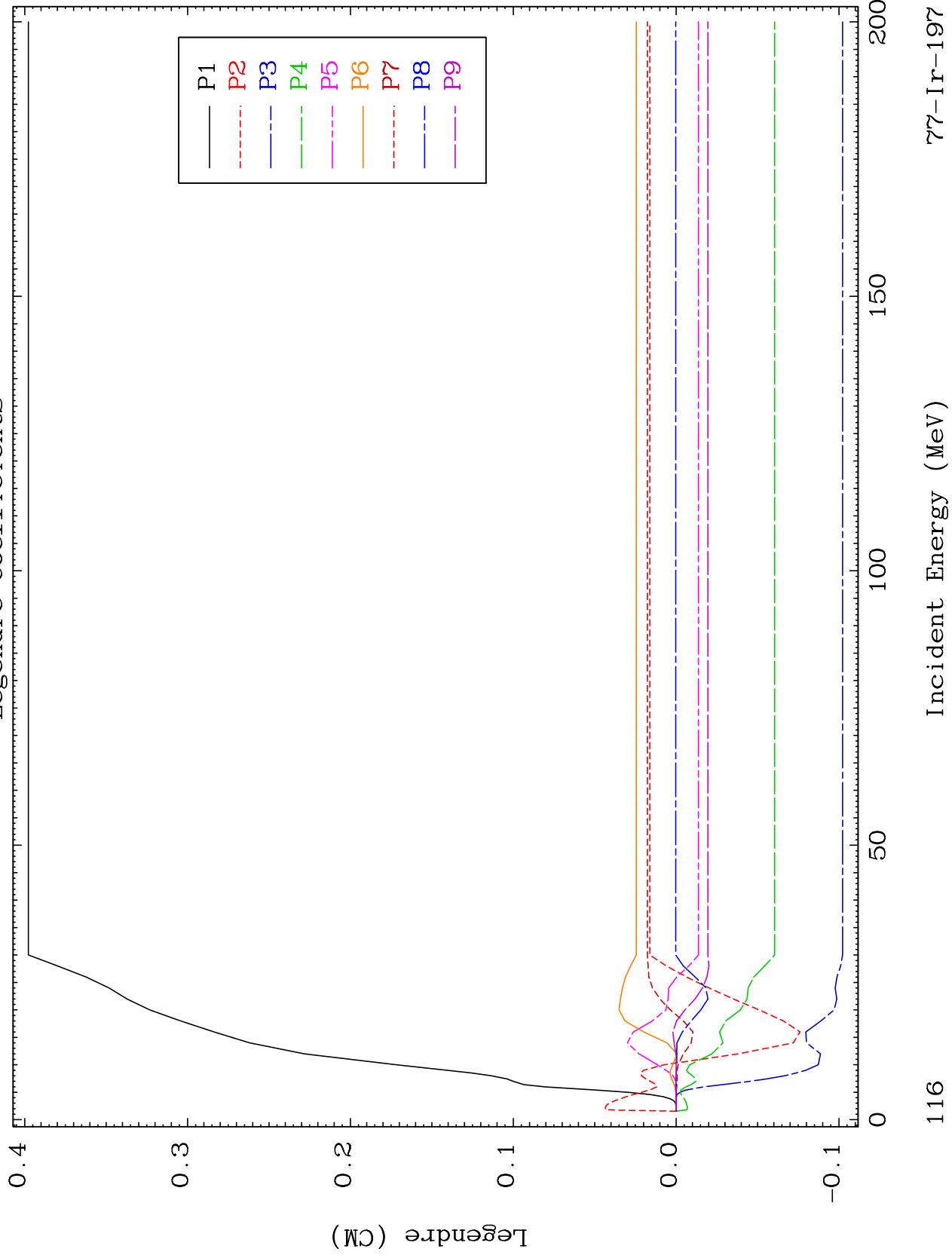
77-Ir-197



MAT 7743

MT= 75 (n,n') Level
Legendre Coefficients

77-Ir-197



77-Ir-197

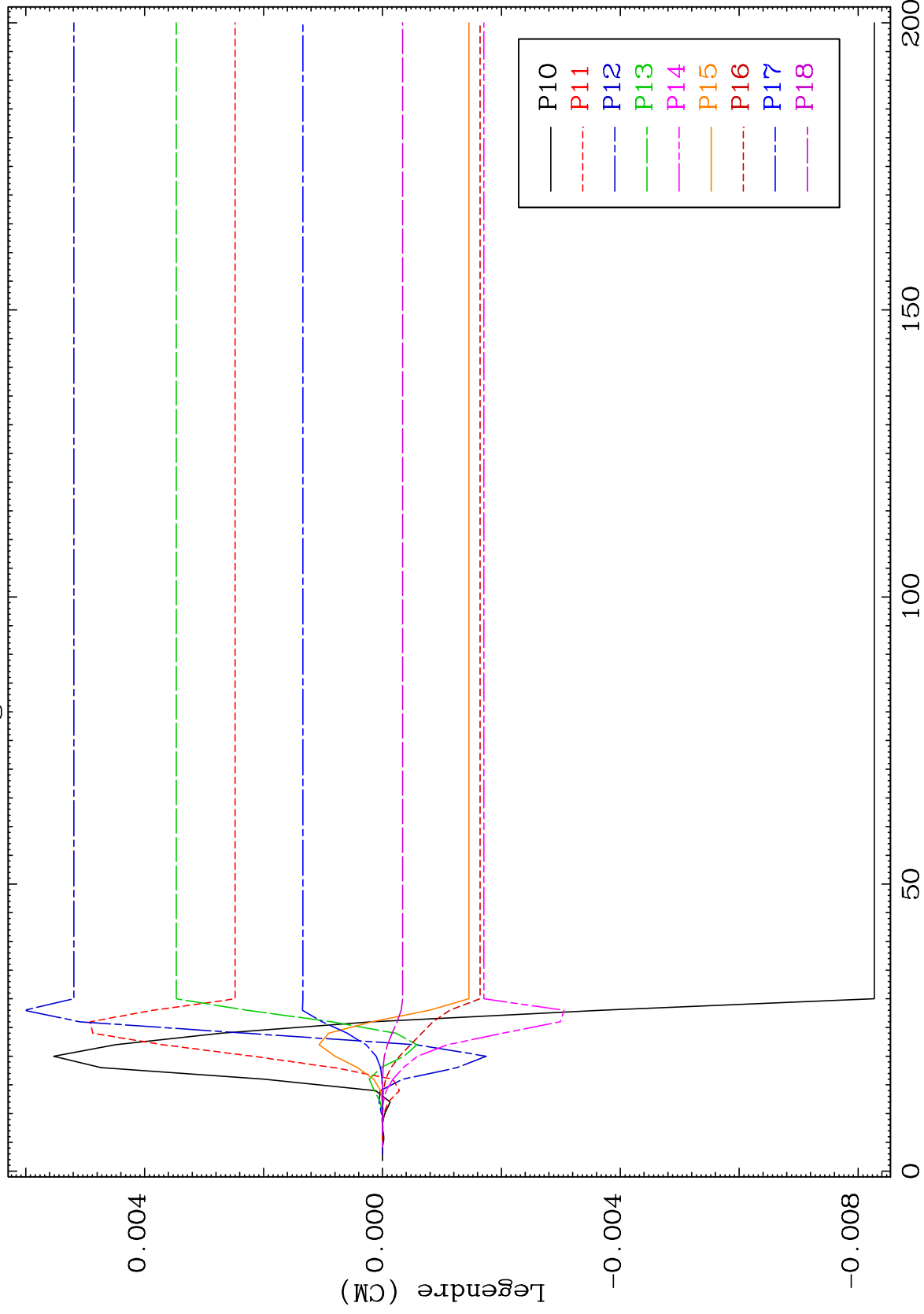
Incident Energy (MeV)

116

MAT 7743

MT= 75 (n,n') Level
Legendre Coefficients

77-Ir-197



117

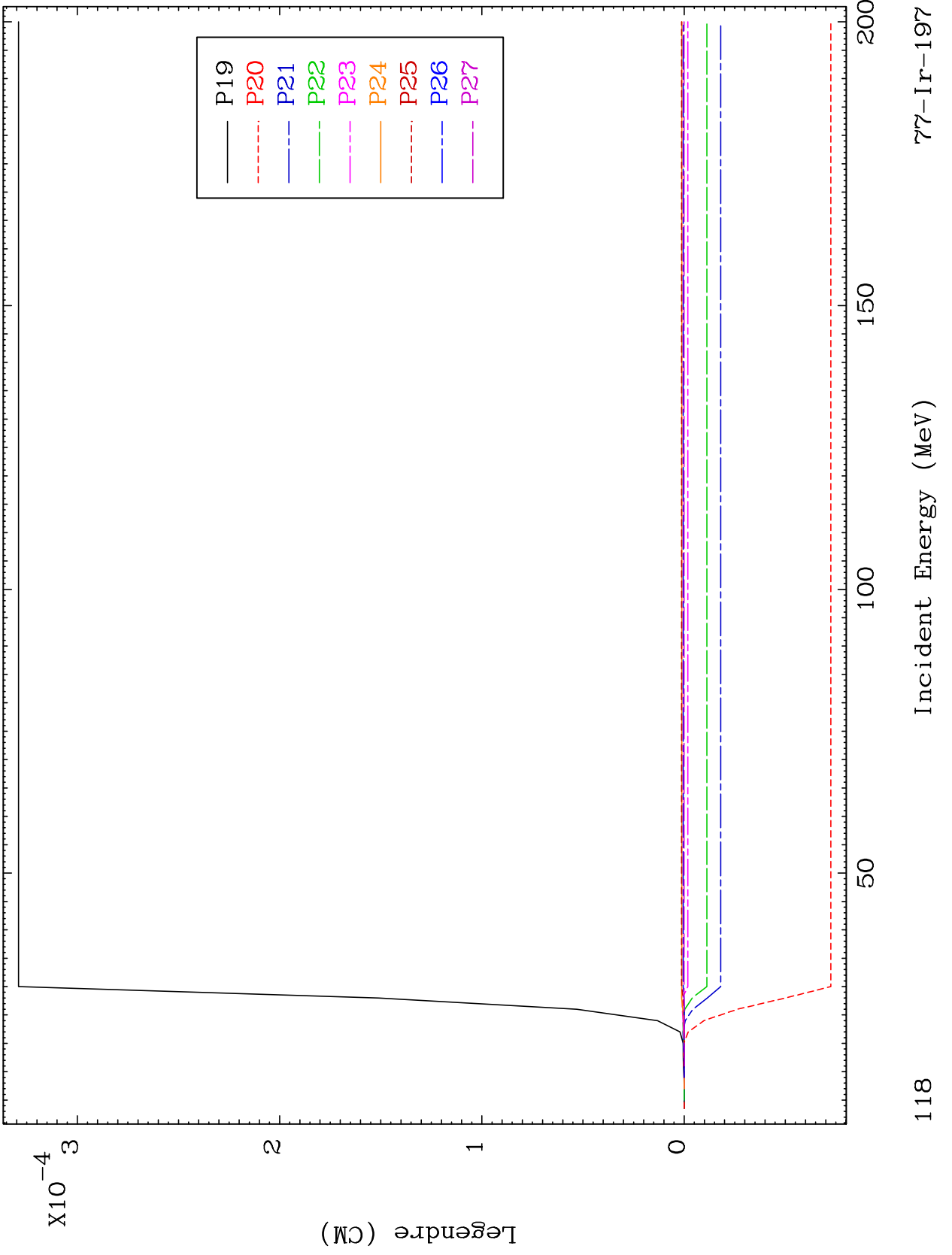
Incident Energy (MeV)

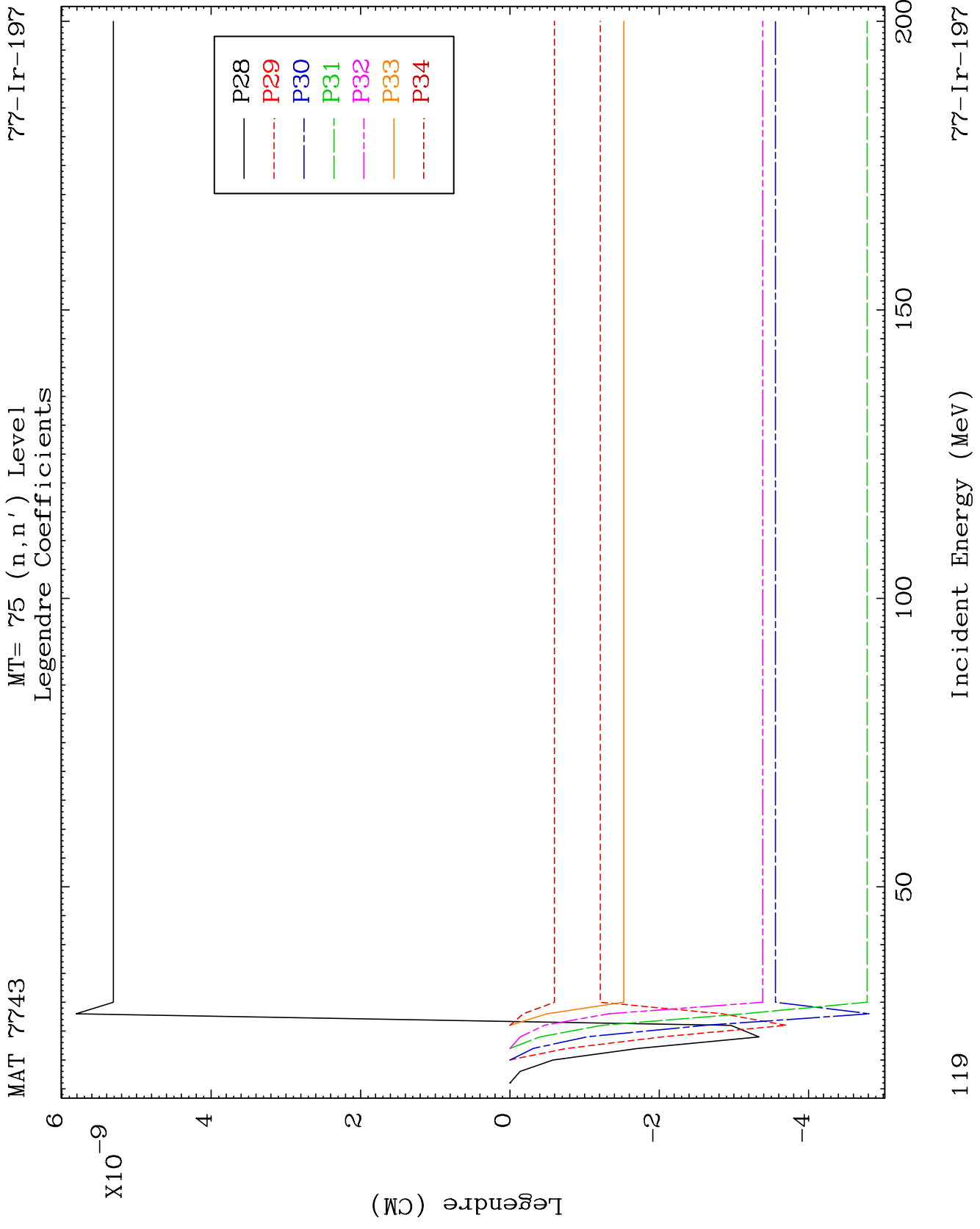
77-Ir-197

MAT 7743

MT= 75 (n,n') Level
Legendre Coefficients

77-Ir-197

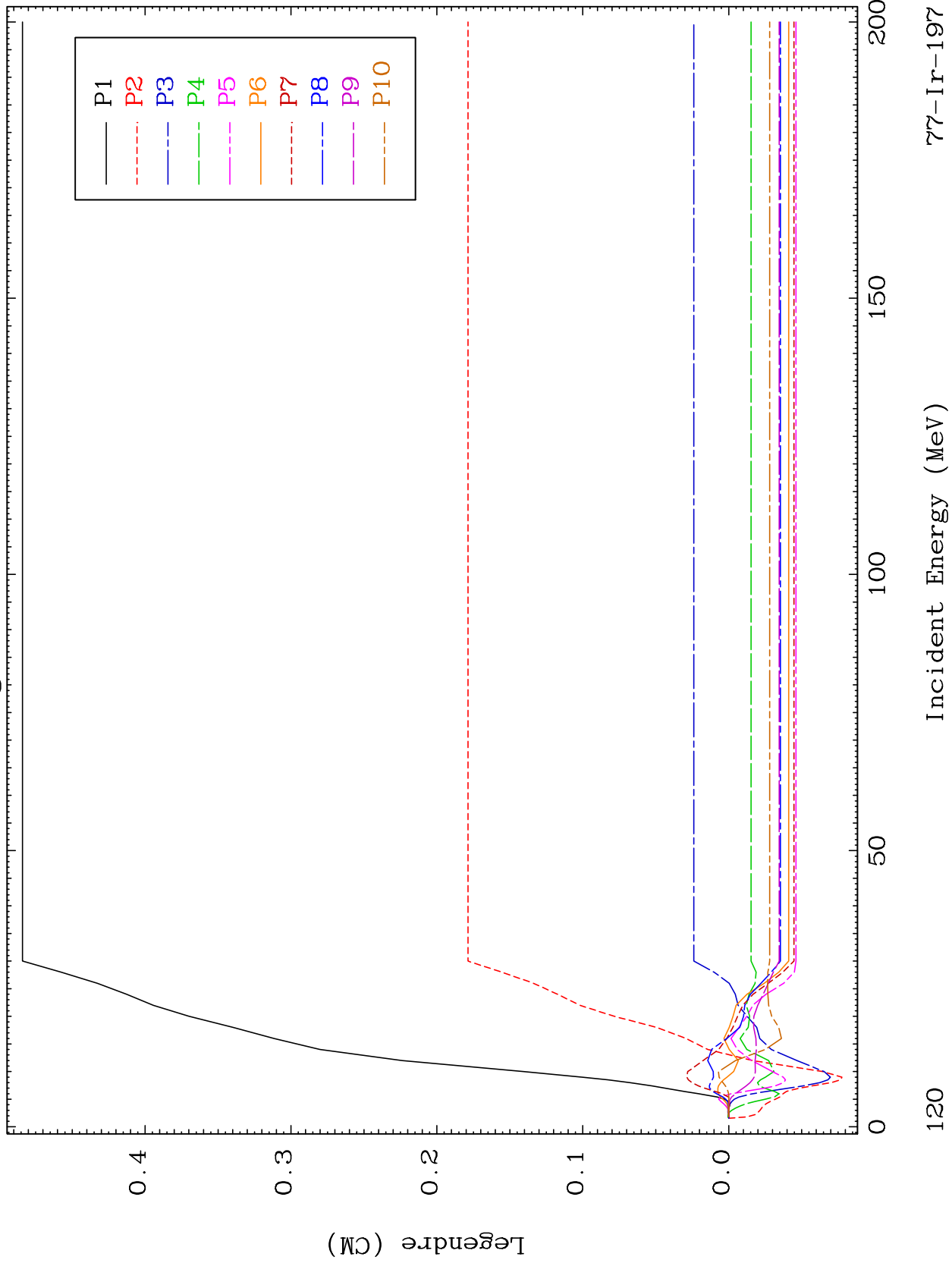




MAT 7743

MT= 76 (n,n') Level
Legendre Coefficients

77-Ir-197



77-Ir-197

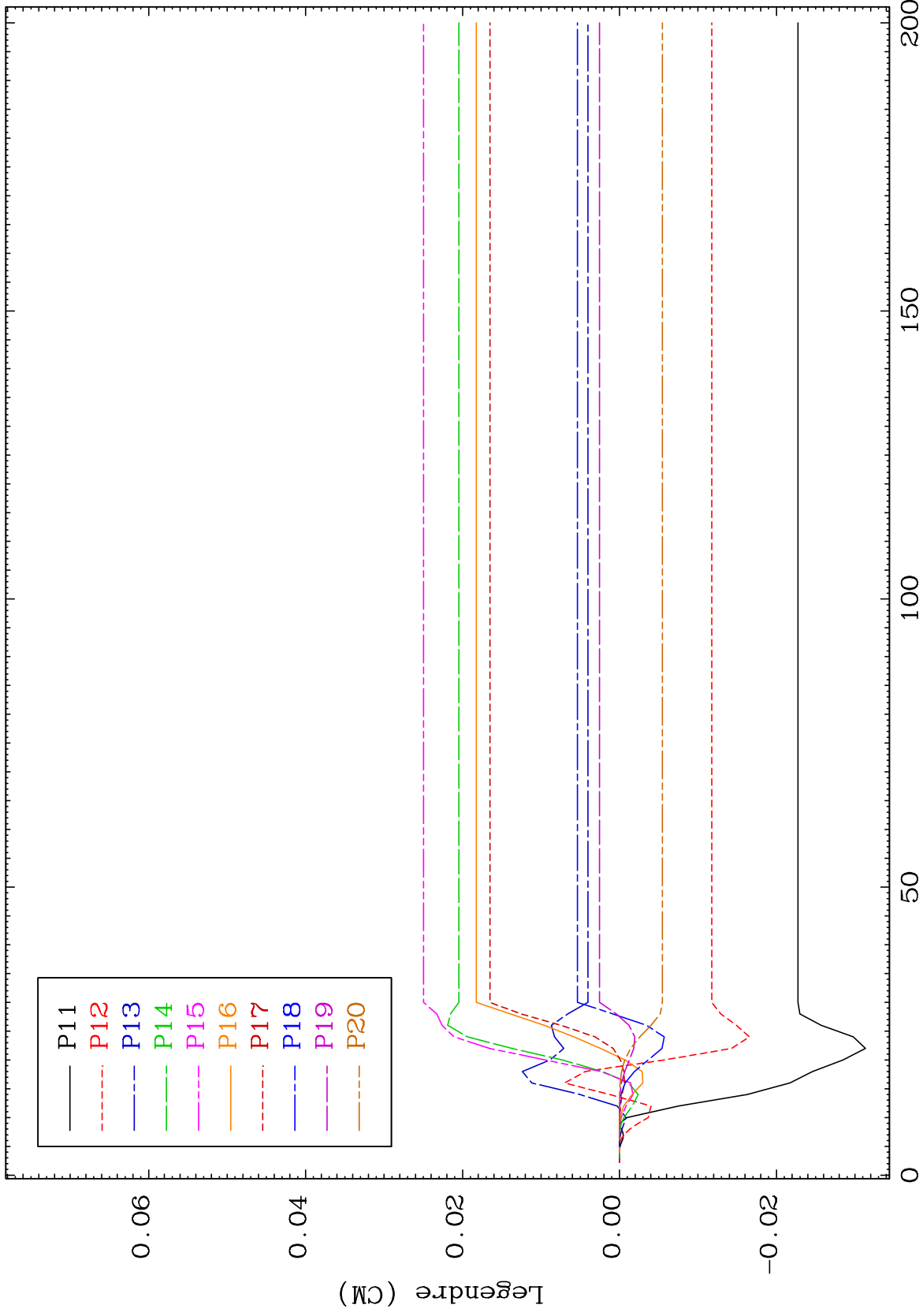
Incident Energy (MeV)

120

MAT 7743

MT= 76 (n,n') Level
Legendre Coefficients

77-Ir-197



121

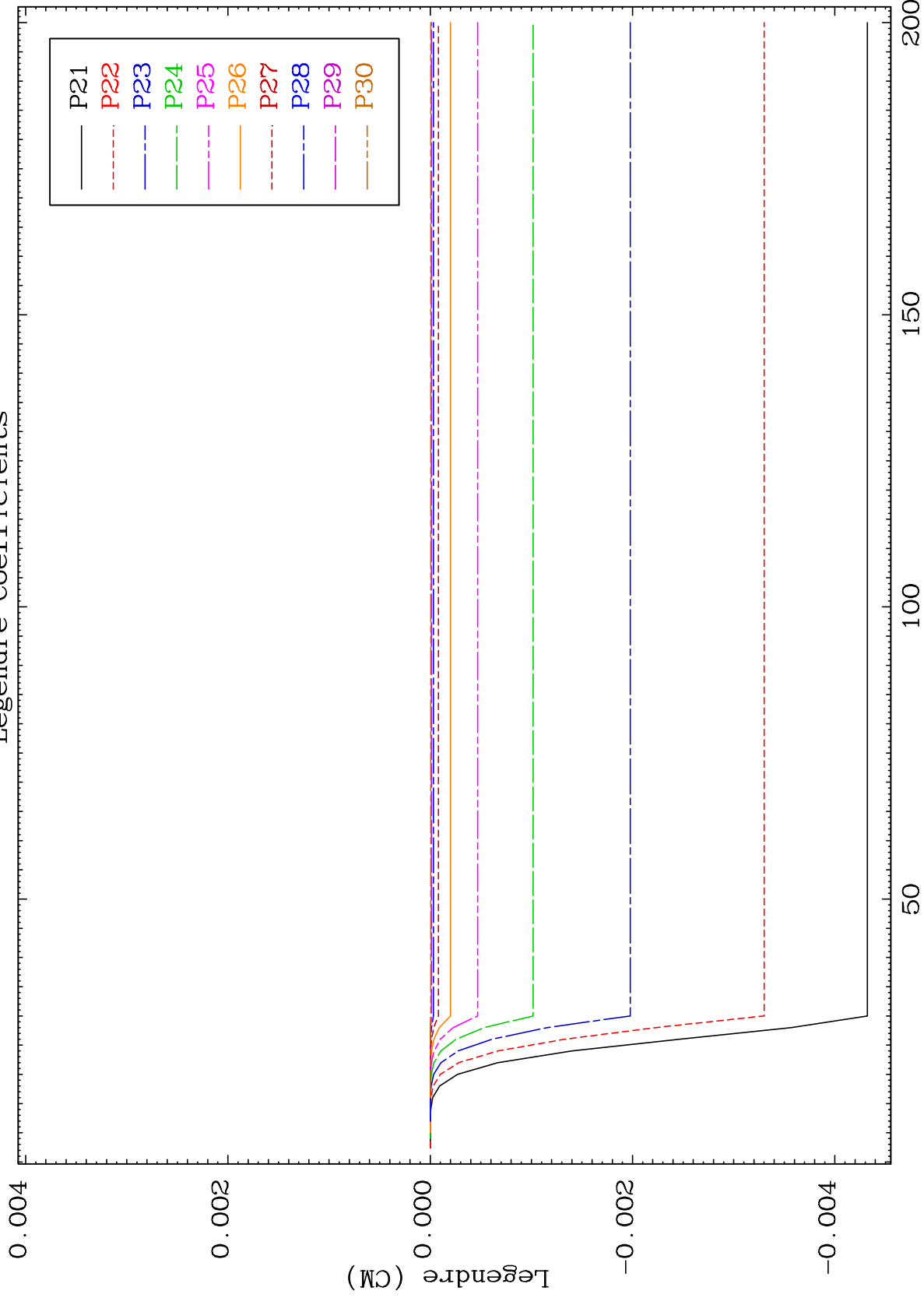
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 76 (n,n') Level
Legendre Coefficients

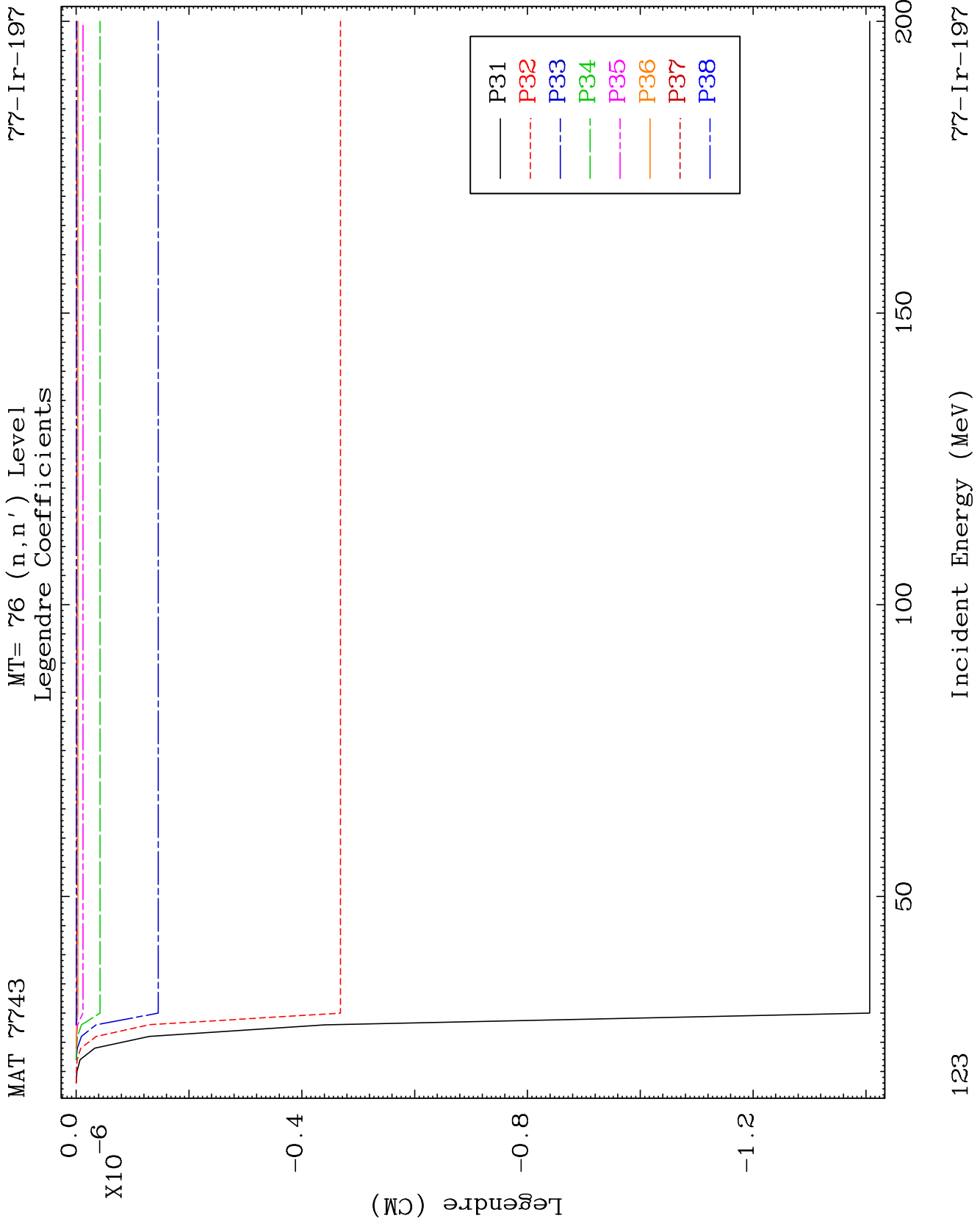
77-Ir-197



122

Incident Energy (MeV)

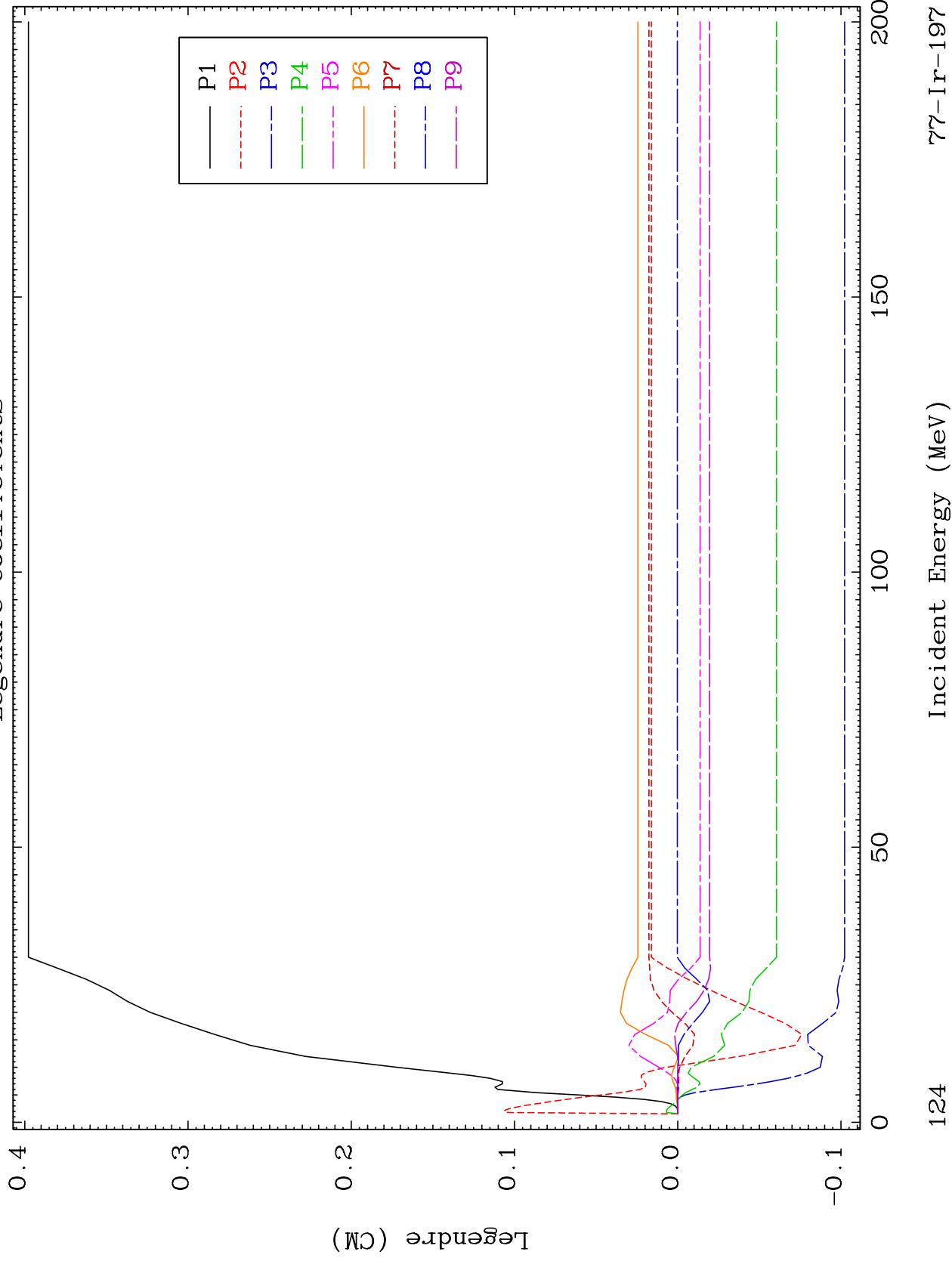
77-Ir-197



MAT 7743

MT= 77 (n,n') Level
Legendre Coefficients

77-Ir-197



77-Ir-197

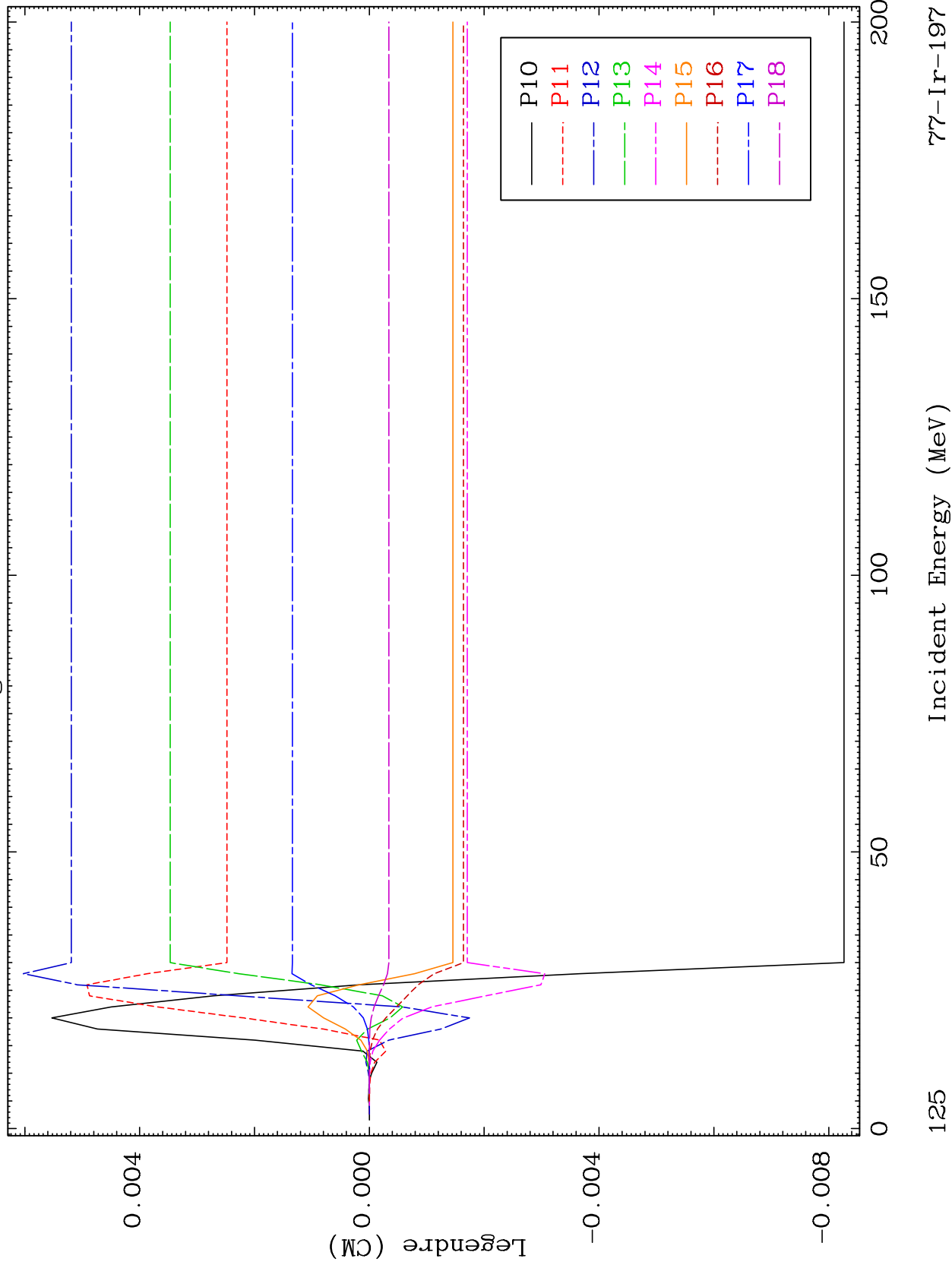
Incident Energy (MeV)

124

MAT 7743

MT= 77 (n,n') Level
Legendre Coefficients

77-Ir-197



77-Ir-197

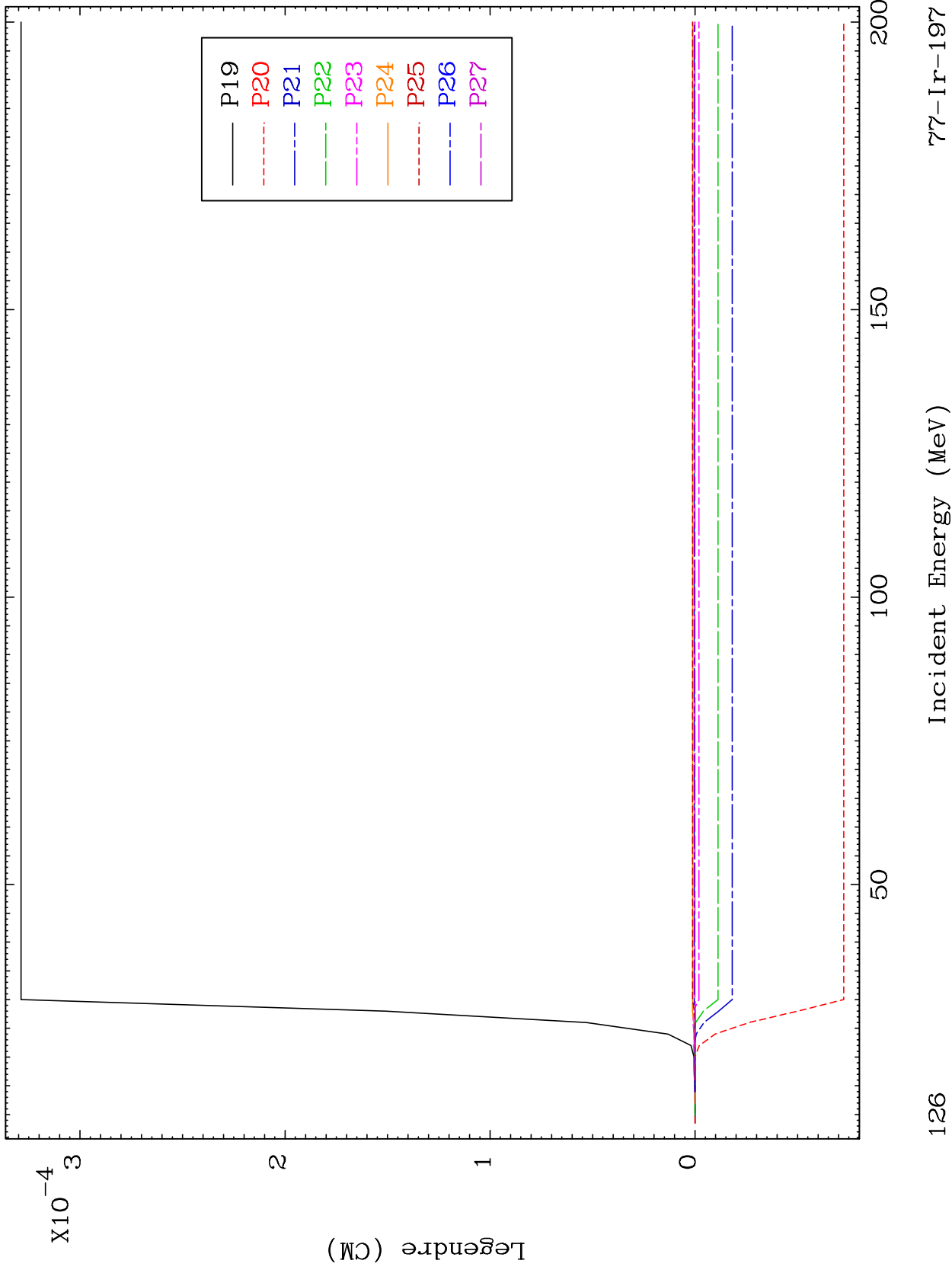
Incident Energy (MeV)

125

MAT 7743

MT= 77 (n,n') Level
Legendre Coefficients

77-Ir-197



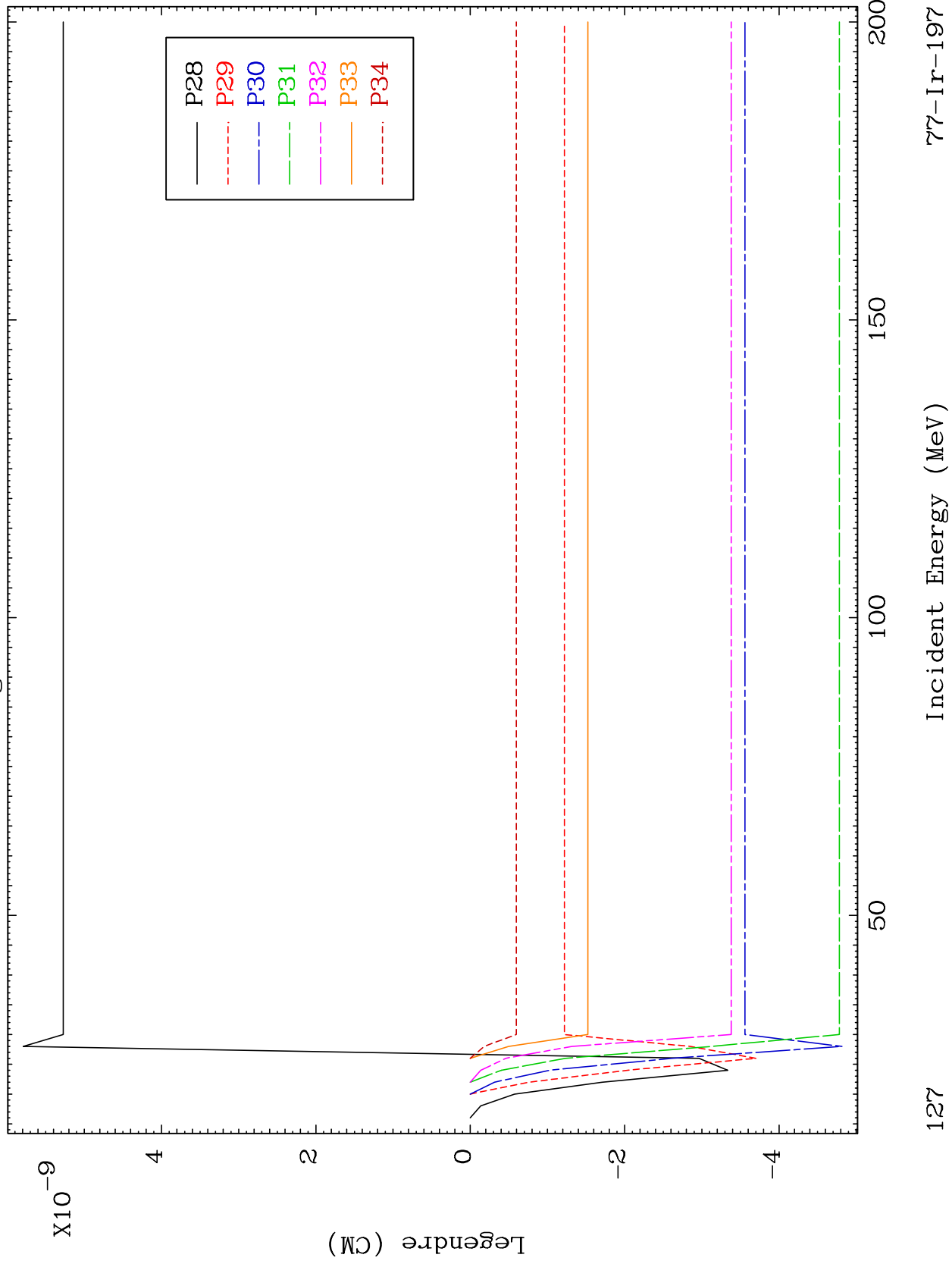
126

77-Ir-197

MAT 7743

MT= 77 (n,n') Level
Legendre Coefficients

77-Ir-197



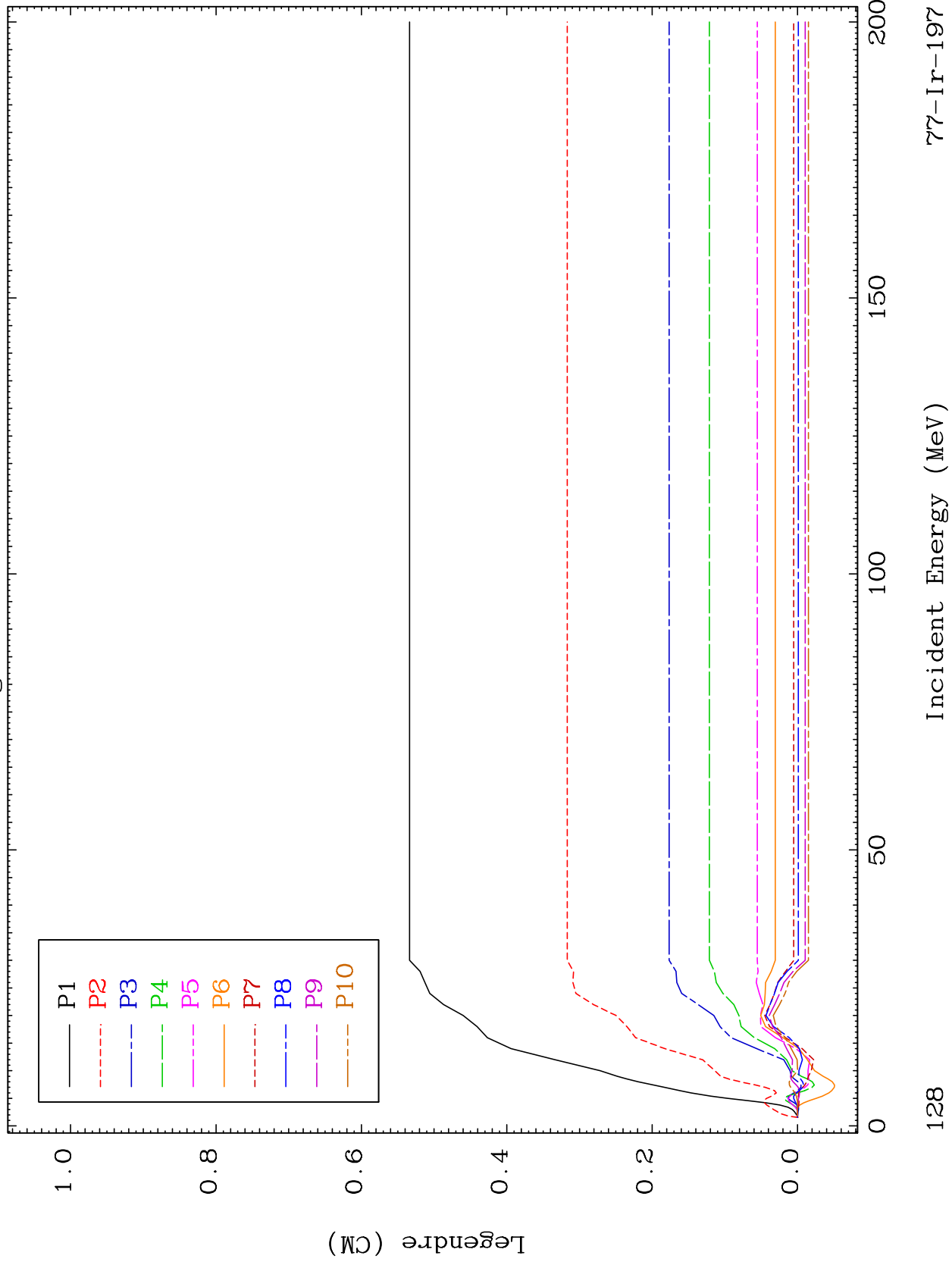
127

77-Ir-197

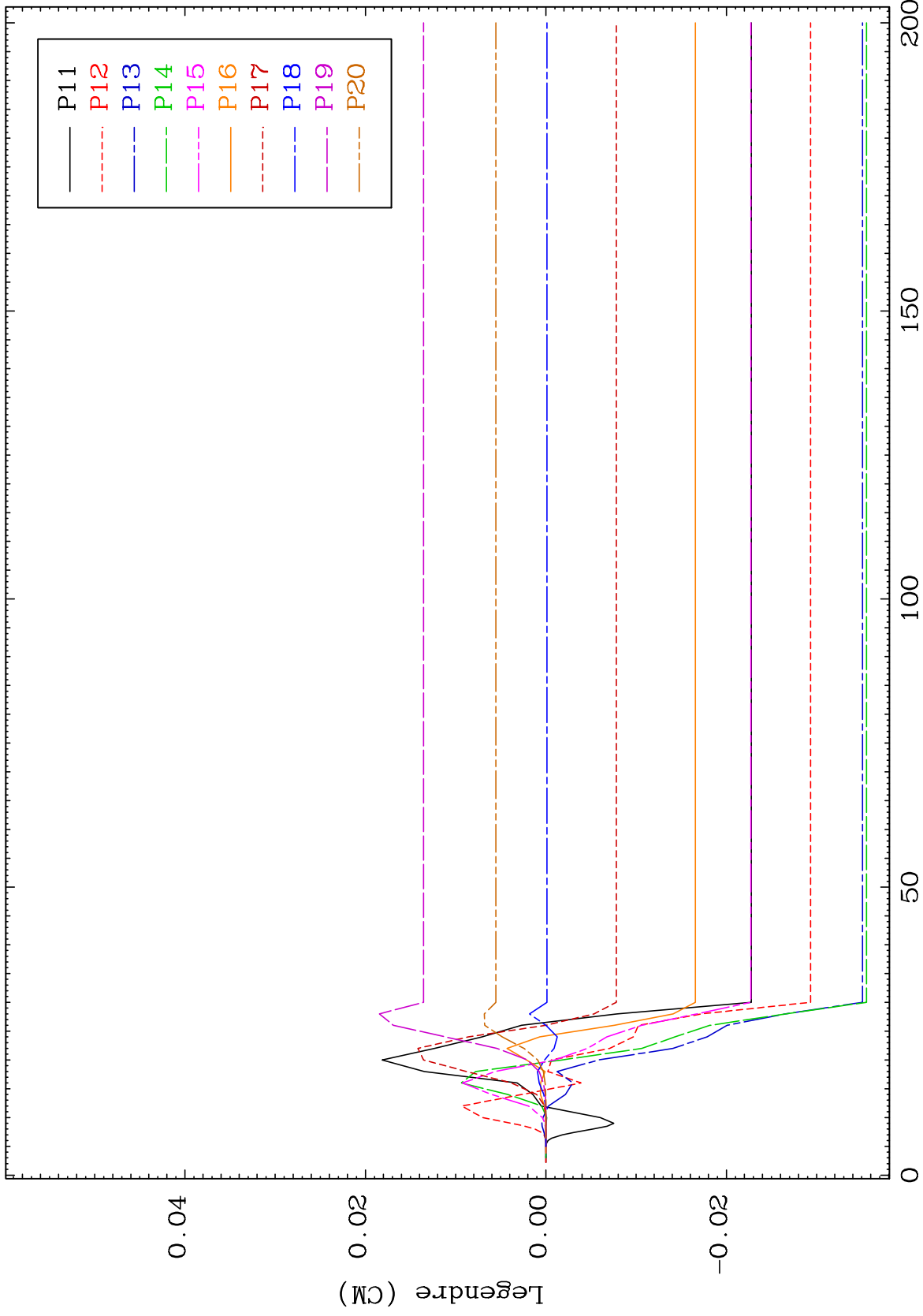
MAT 7743

MT= 78 (n,n') Level
Legendre Coefficients

77-Ir-197



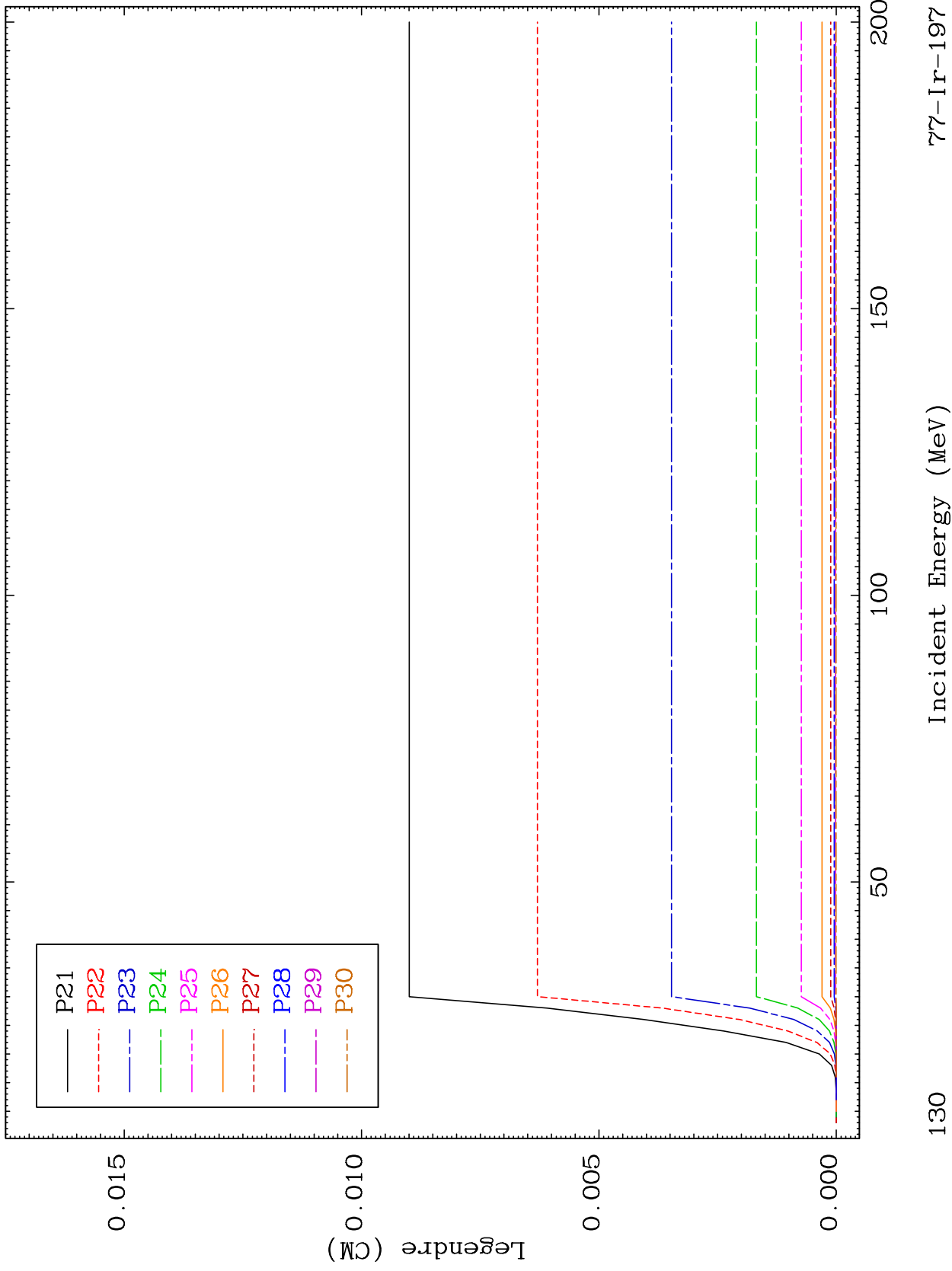
128



MAT 7743

MT= 78 (n,n') Level
Legendre Coefficients

77-Ir-197



130

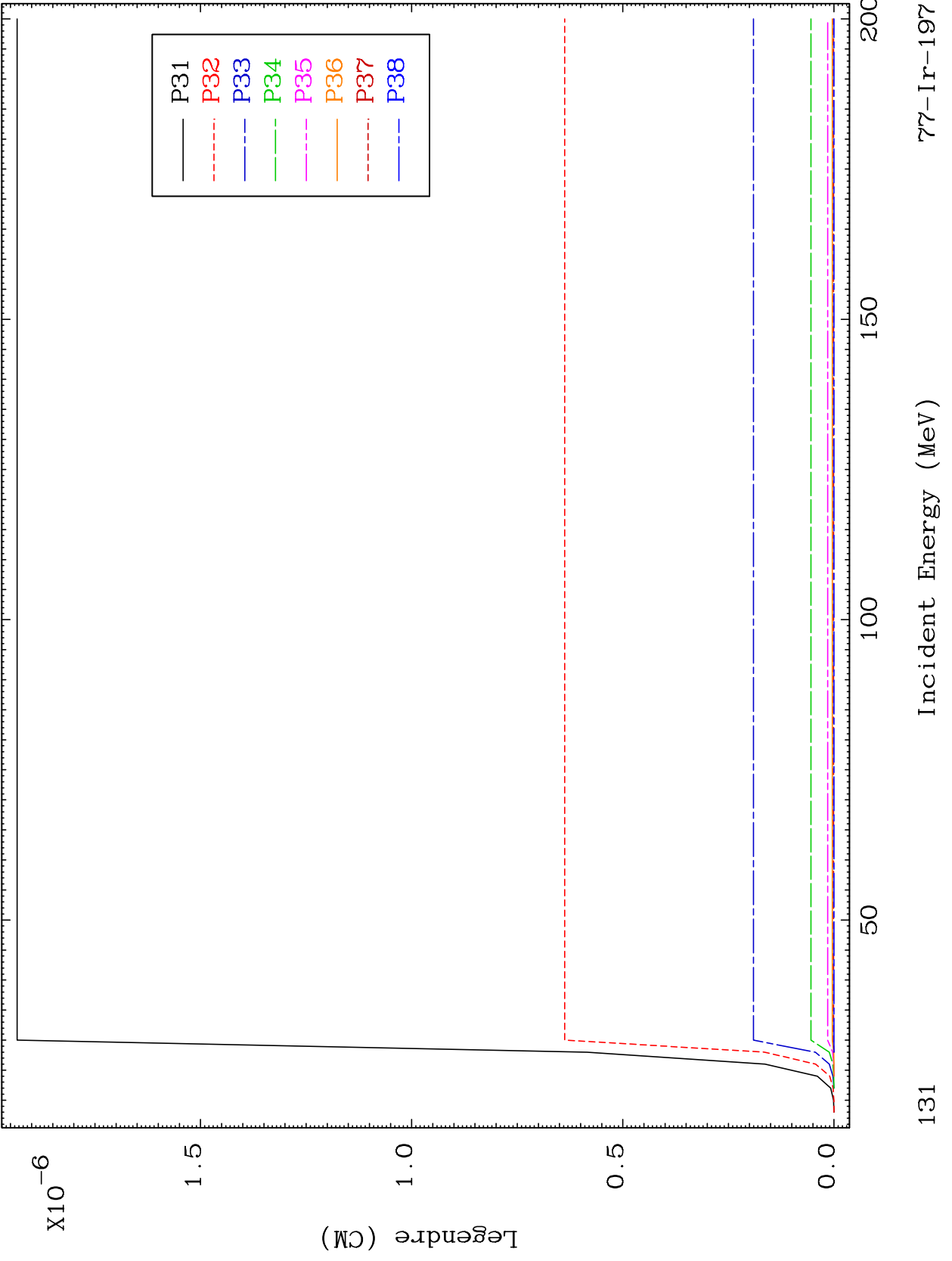
Incident Energy (MeV)

77-Ir-197

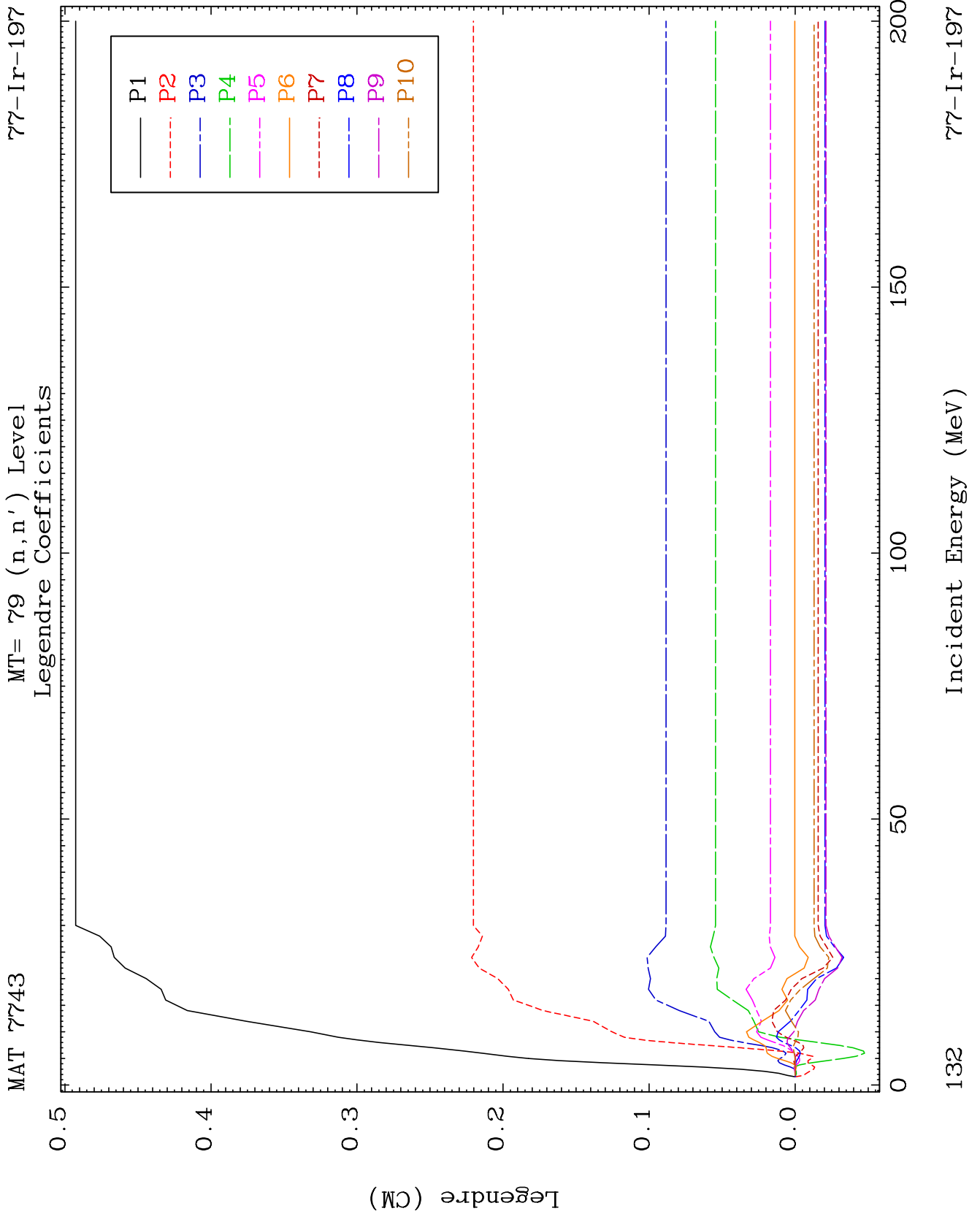
MAT 7743

MT= 78 (n,n') Level
Legendre Coefficients

77-Ir-197



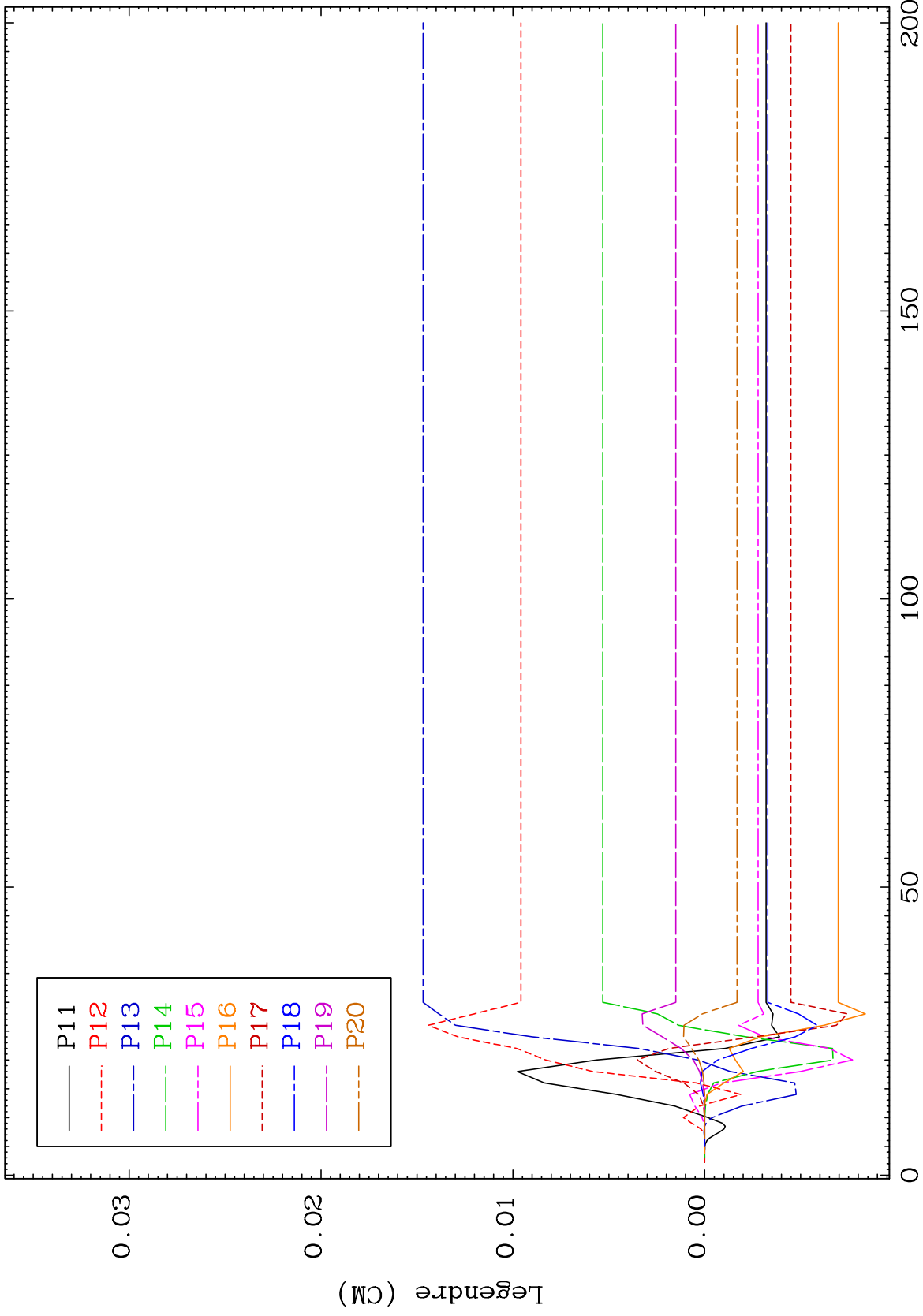
131



MAT 7743

MT= 79 (n,n') Level
Legendre Coefficients

77-Ir-197



133

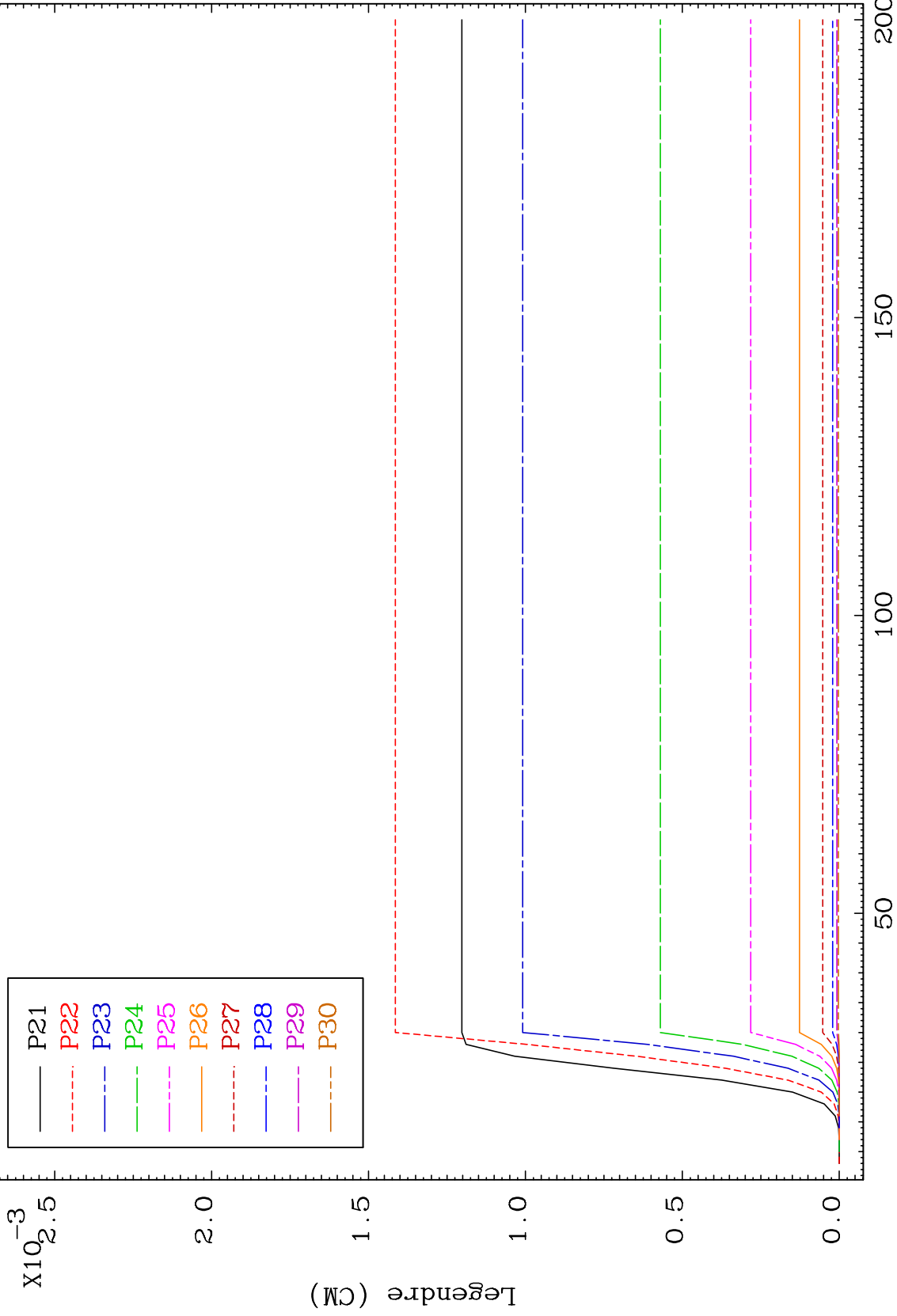
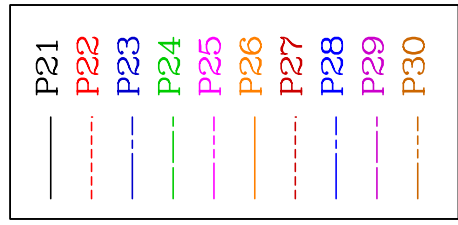
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 79 (n,n') Level
Legendre Coefficients

77-Ir-197



134

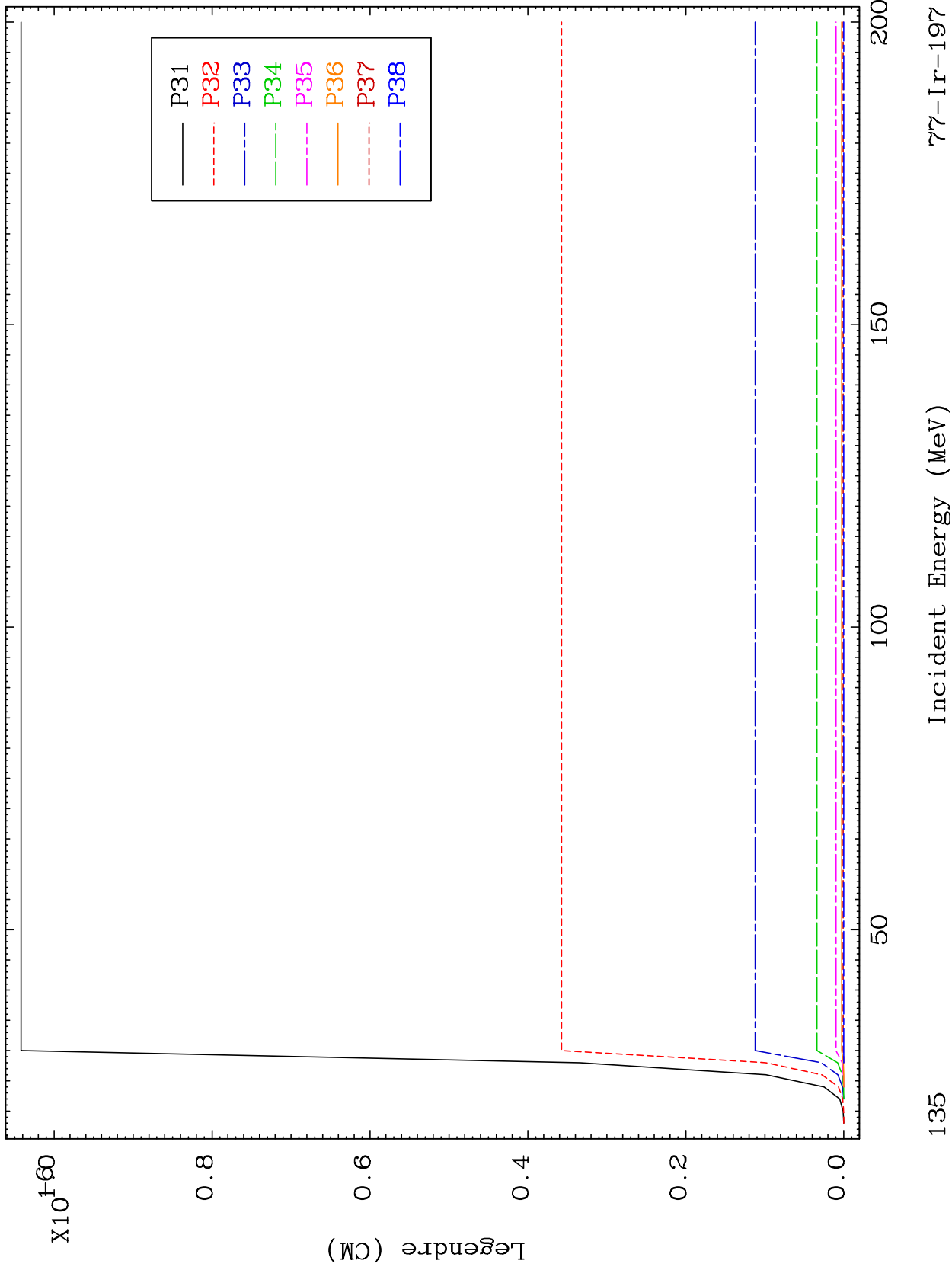
Incident Energy (MeV)

77-Ir-197

MAT 7743

MT= 79 (n,n') Level
Legendre Coefficients

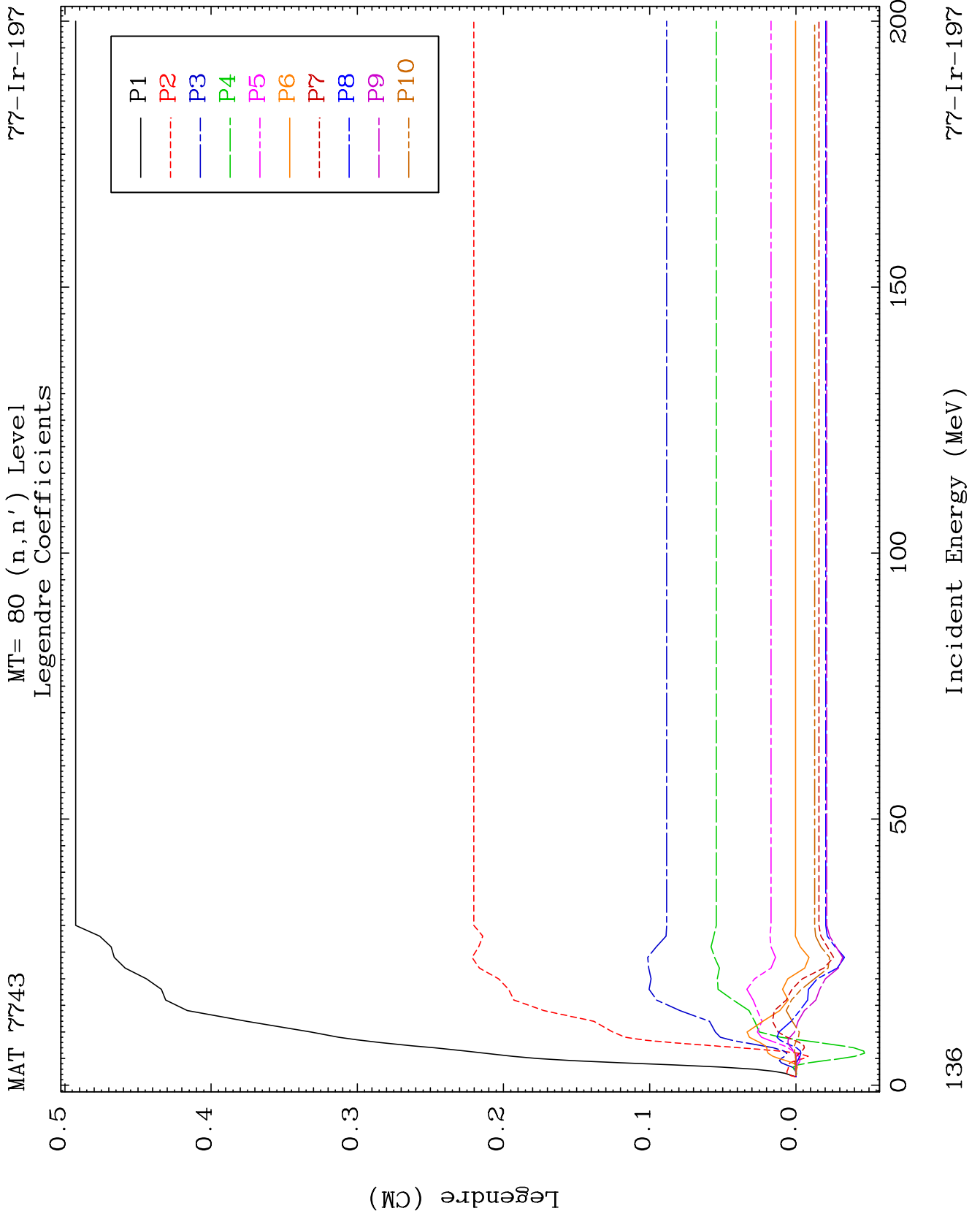
77-Ir-197



135

Incident Energy (MeV)

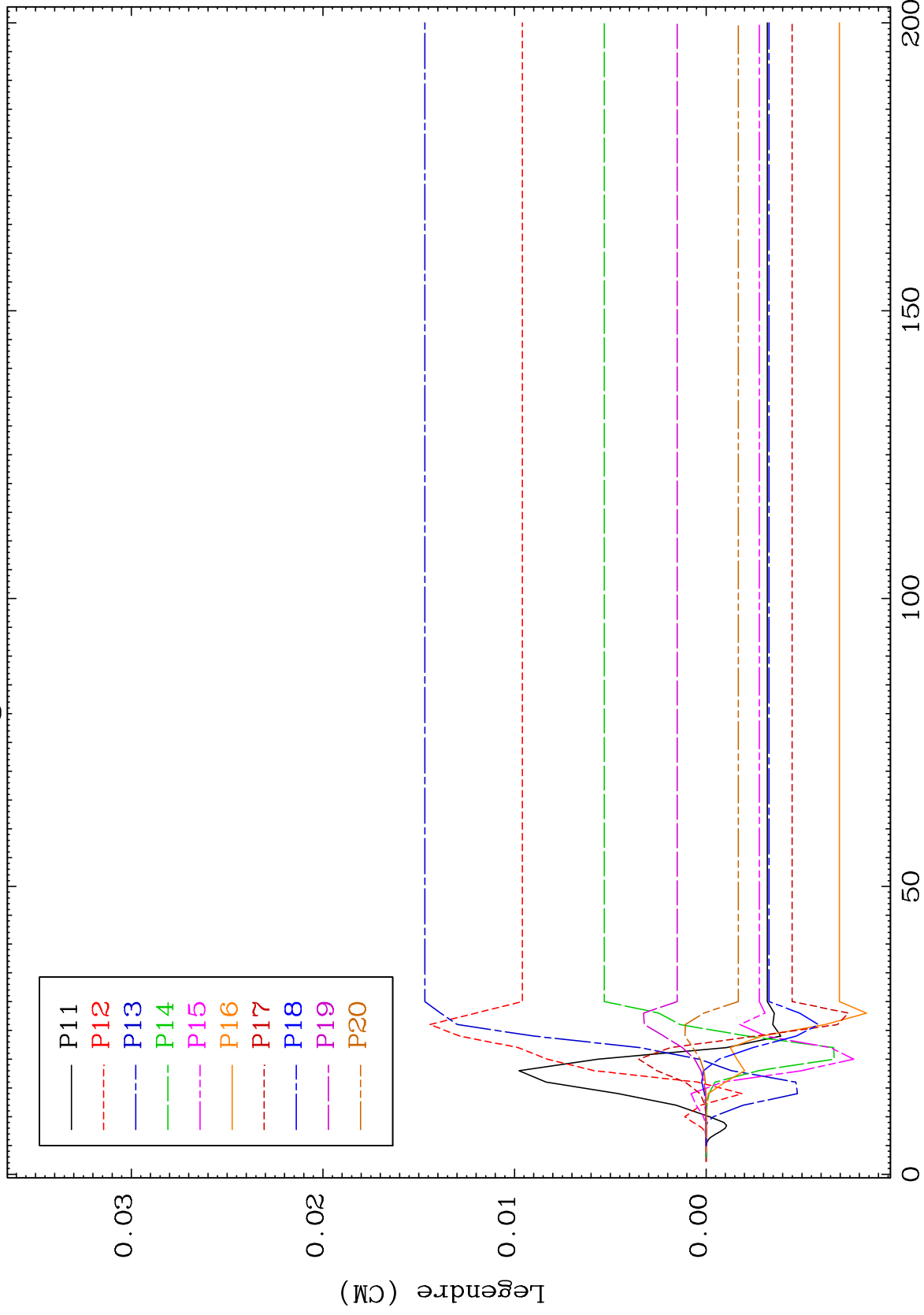
77-Ir-197



MAT 7743

MT= 80 (n,n') Level
Legendre Coefficients

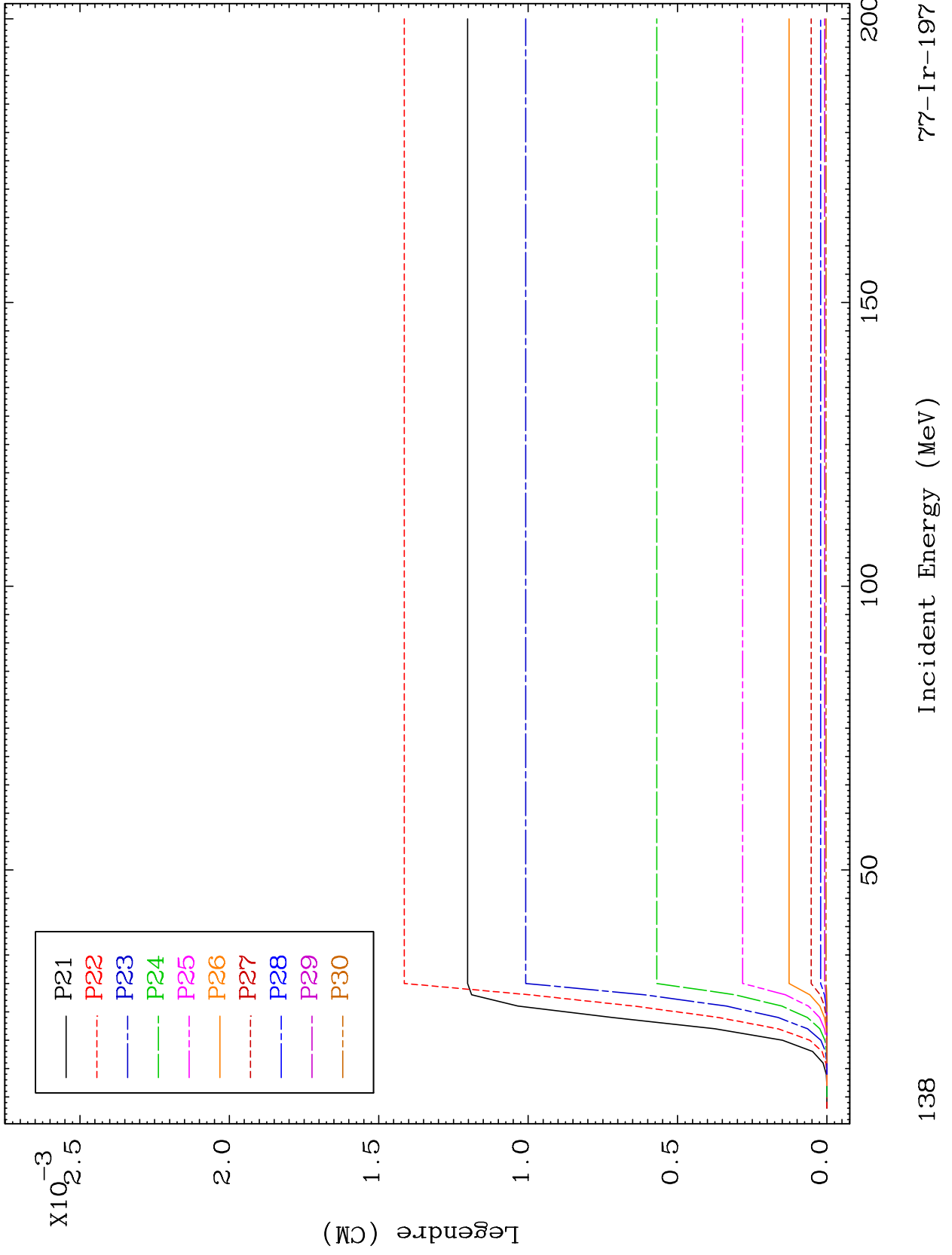
77-Ir-197



137

Incident Energy (MeV)

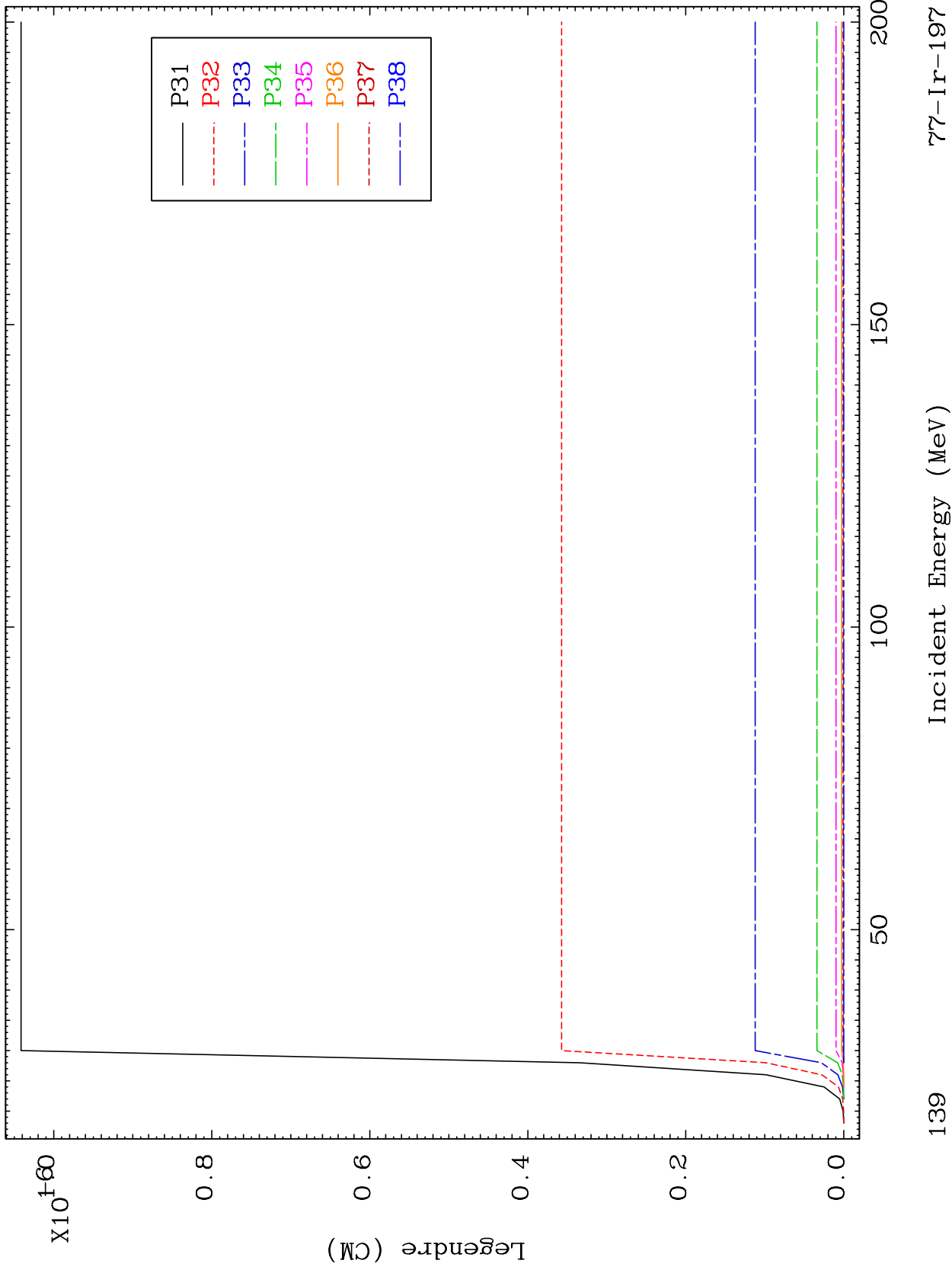
77-Ir-197



MAT 7743

MT= 80 (n,n') Level
Legendre Coefficients

77-Ir-197



139

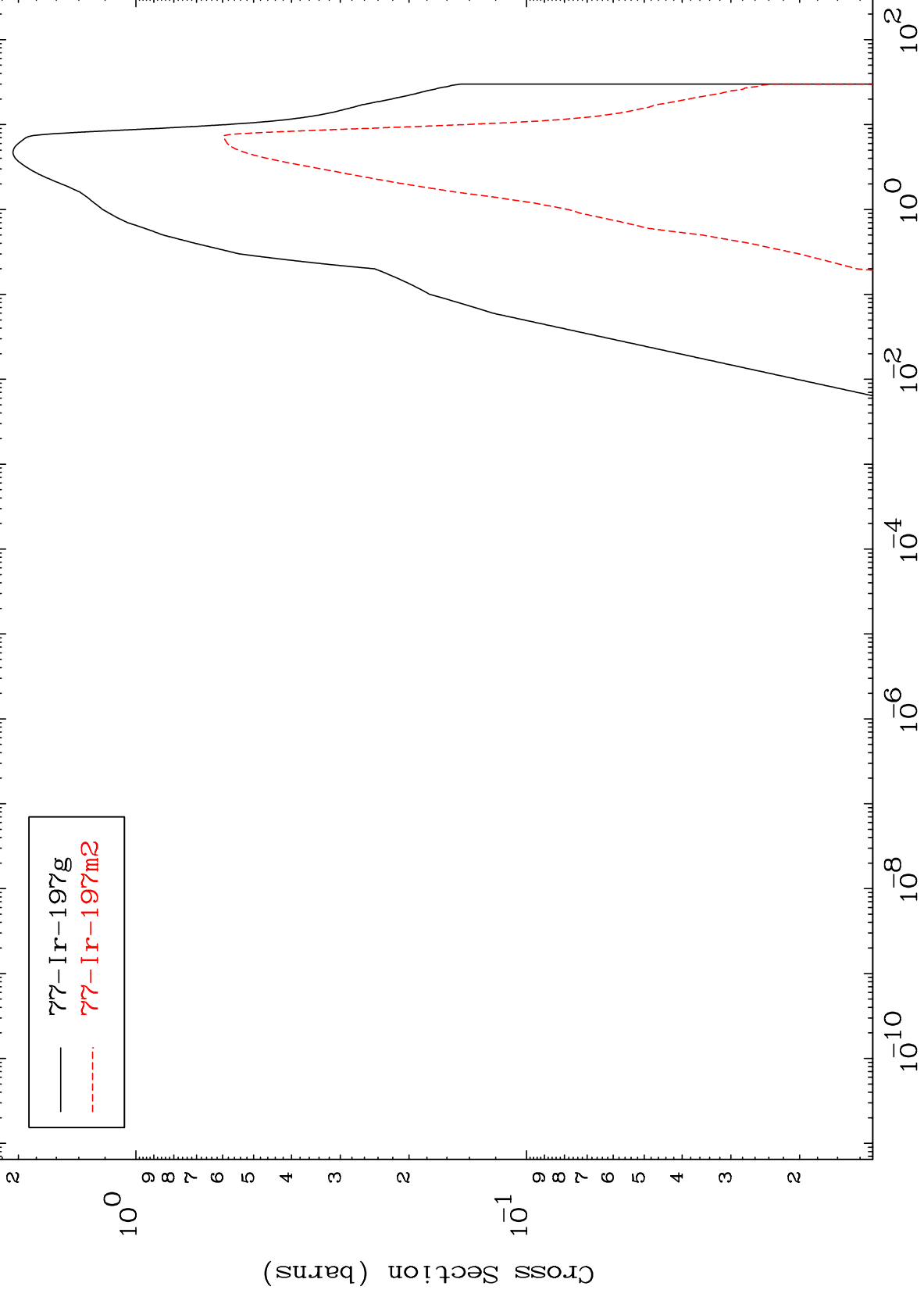
Incident Energy (MeV)

77-Ir-197

MAT 7743

Inelastic
Radionuclide Production Cross Section

⁷⁷Ir-197

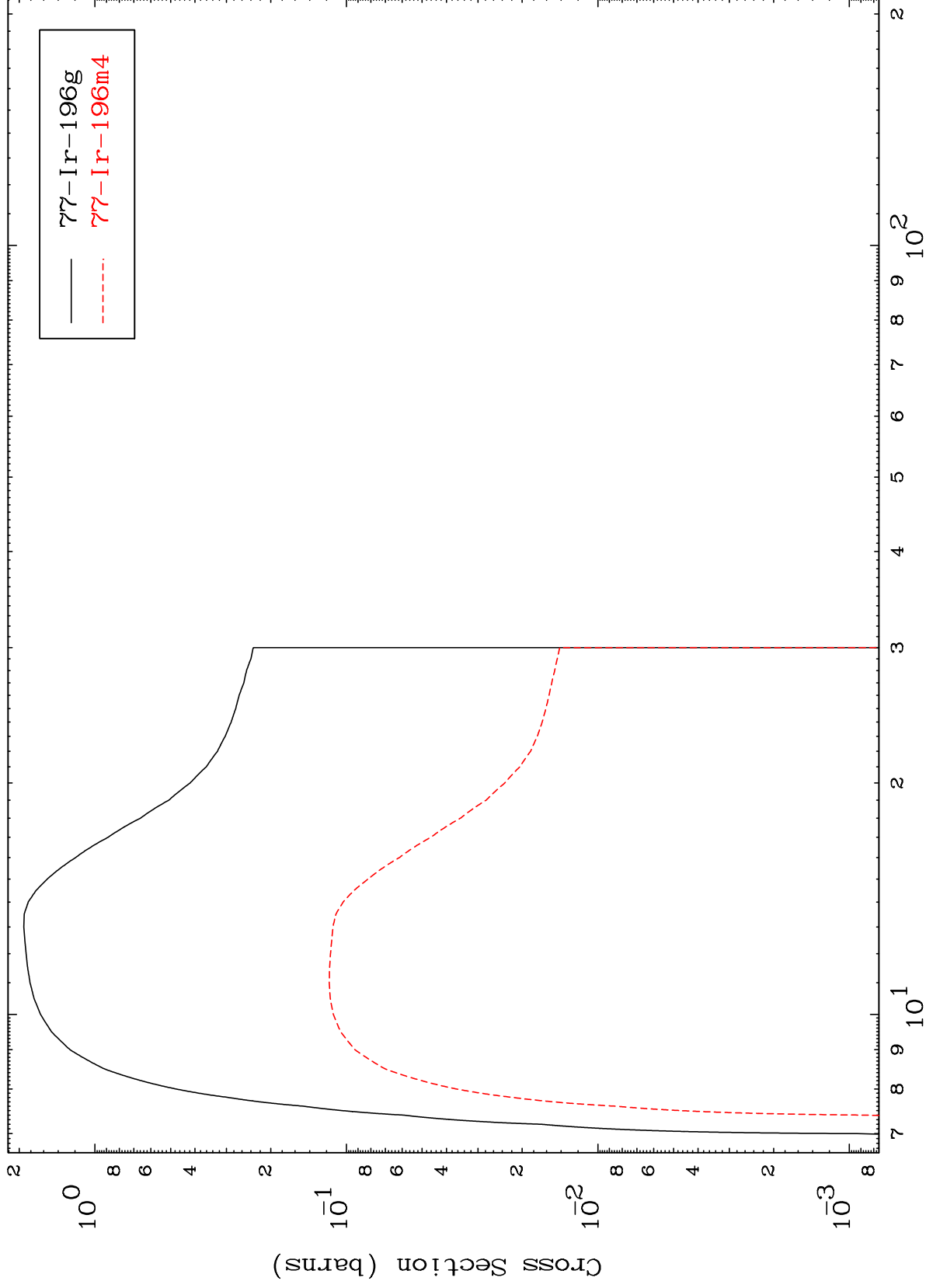


— ⁷⁷Ir-197g
- - - ⁷⁷Ir-197m2

MAT 7743

77-Ir-197

(n,2n)
Radionuclide Production Cross Section



141

Incident Energy (MeV)

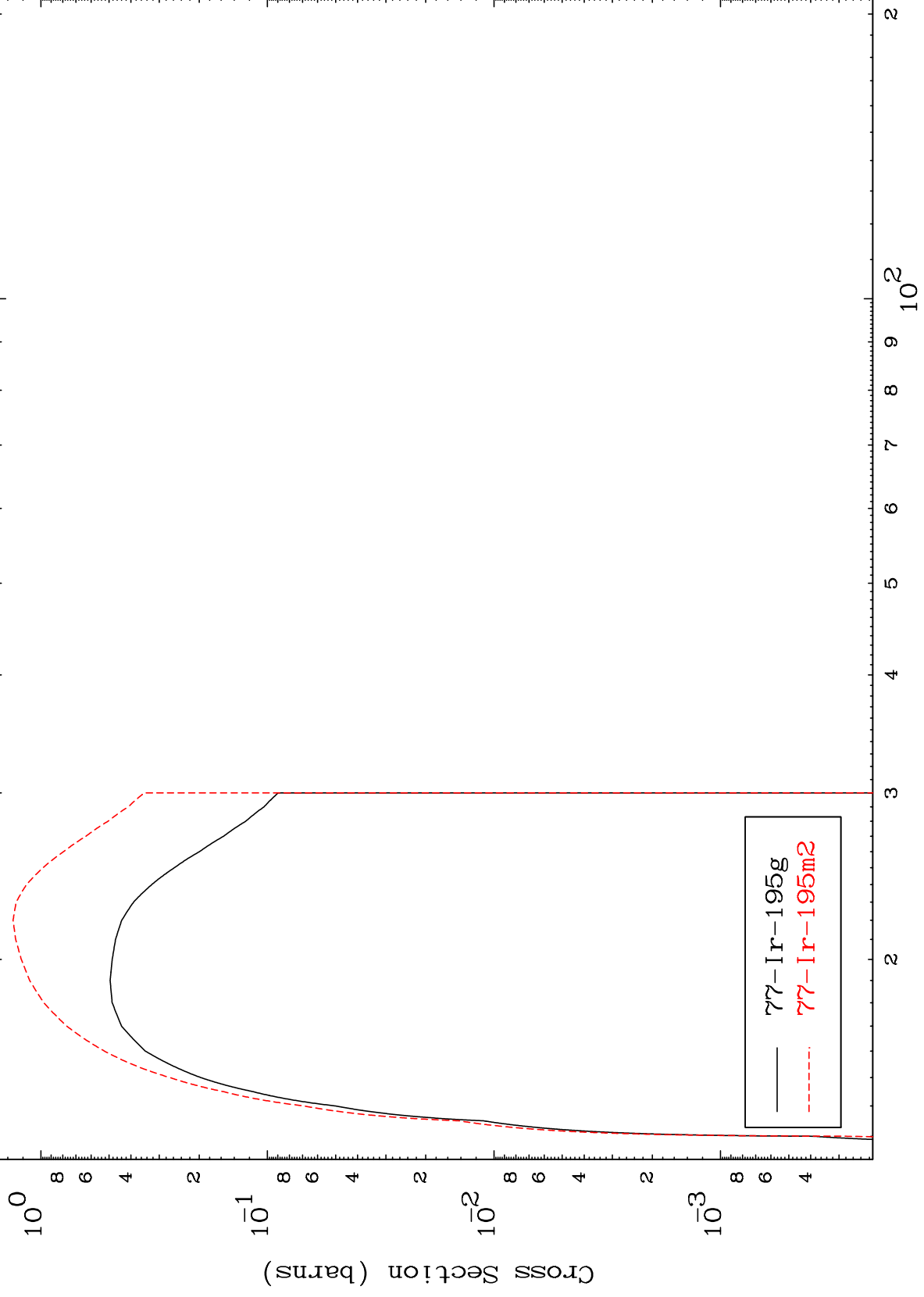
77-Ir-197

MAT 7743

(n,3n)

⁷⁷Ir-197

Radionuclide Production Cross Section



142

Incident Energy (MeV)

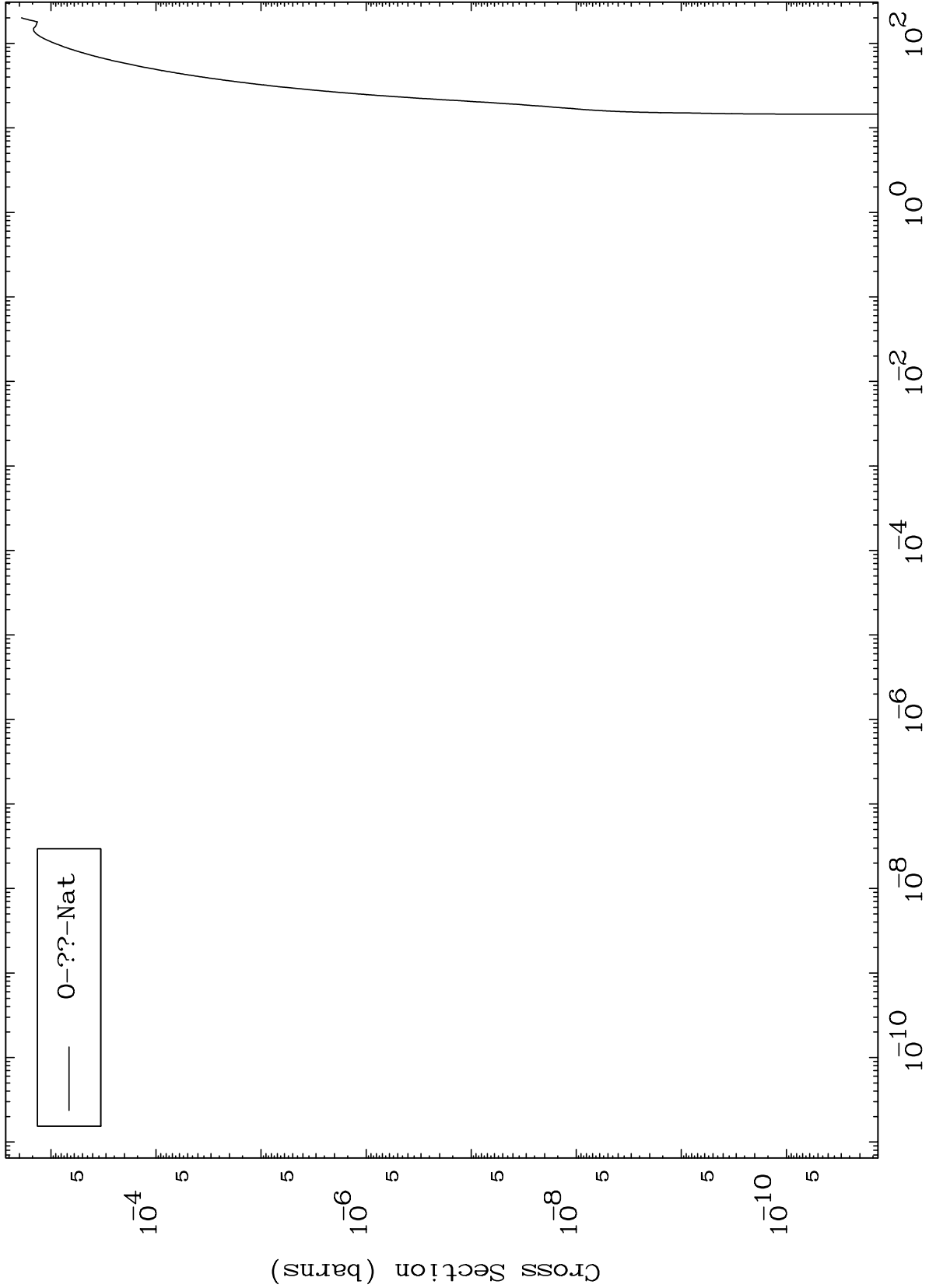
⁷⁷Ir-197

MAT 7743

Fission

⁷⁷Ir-197

Radionuclide Production Cross Section



143

Incident Energy (MeV)

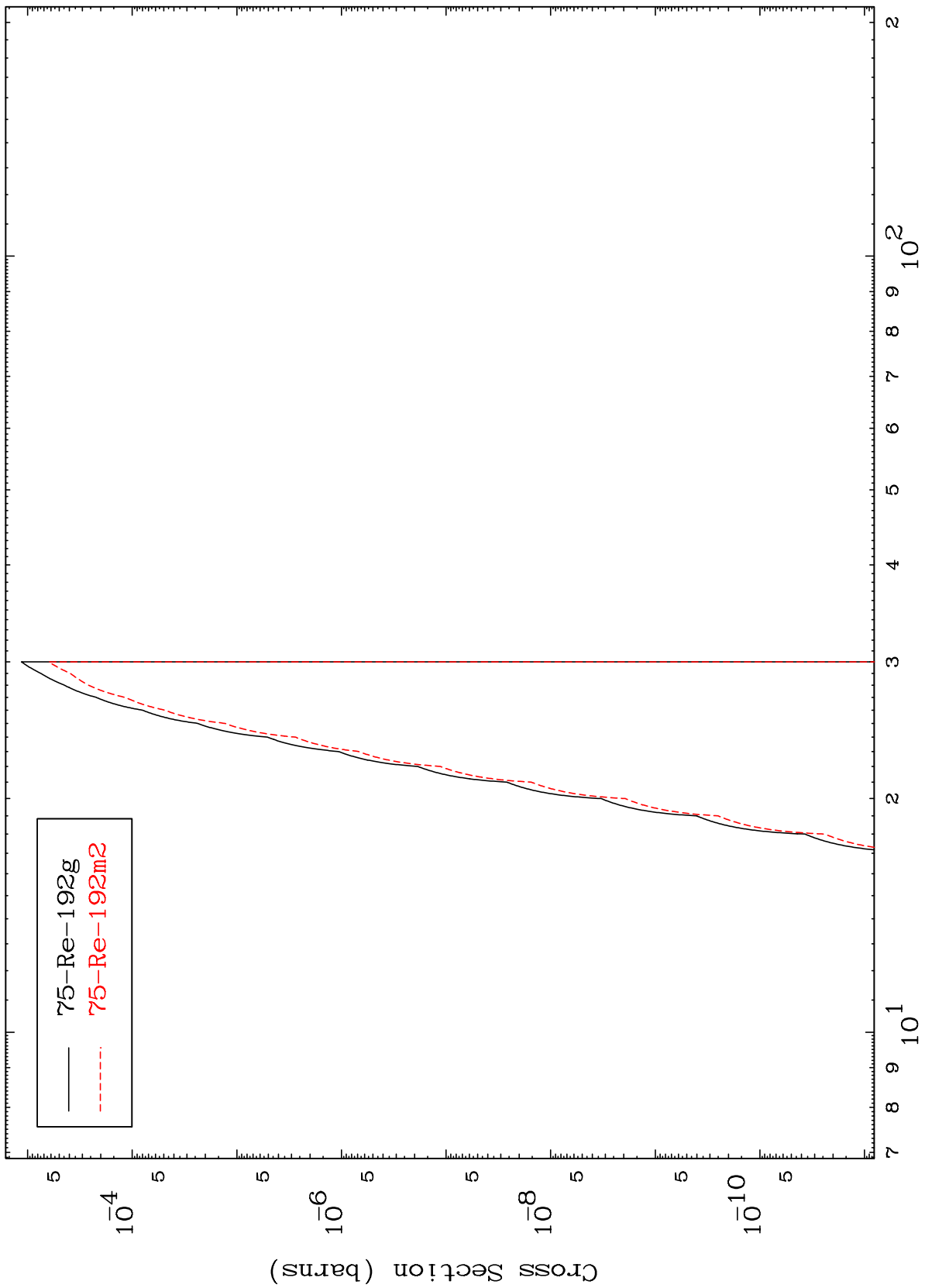
⁷⁷Ir-197

MAT 7743

(n,2n) α

77-Ir-197

Radionuclide Production Cross Section



144

Incident Energy (MeV)

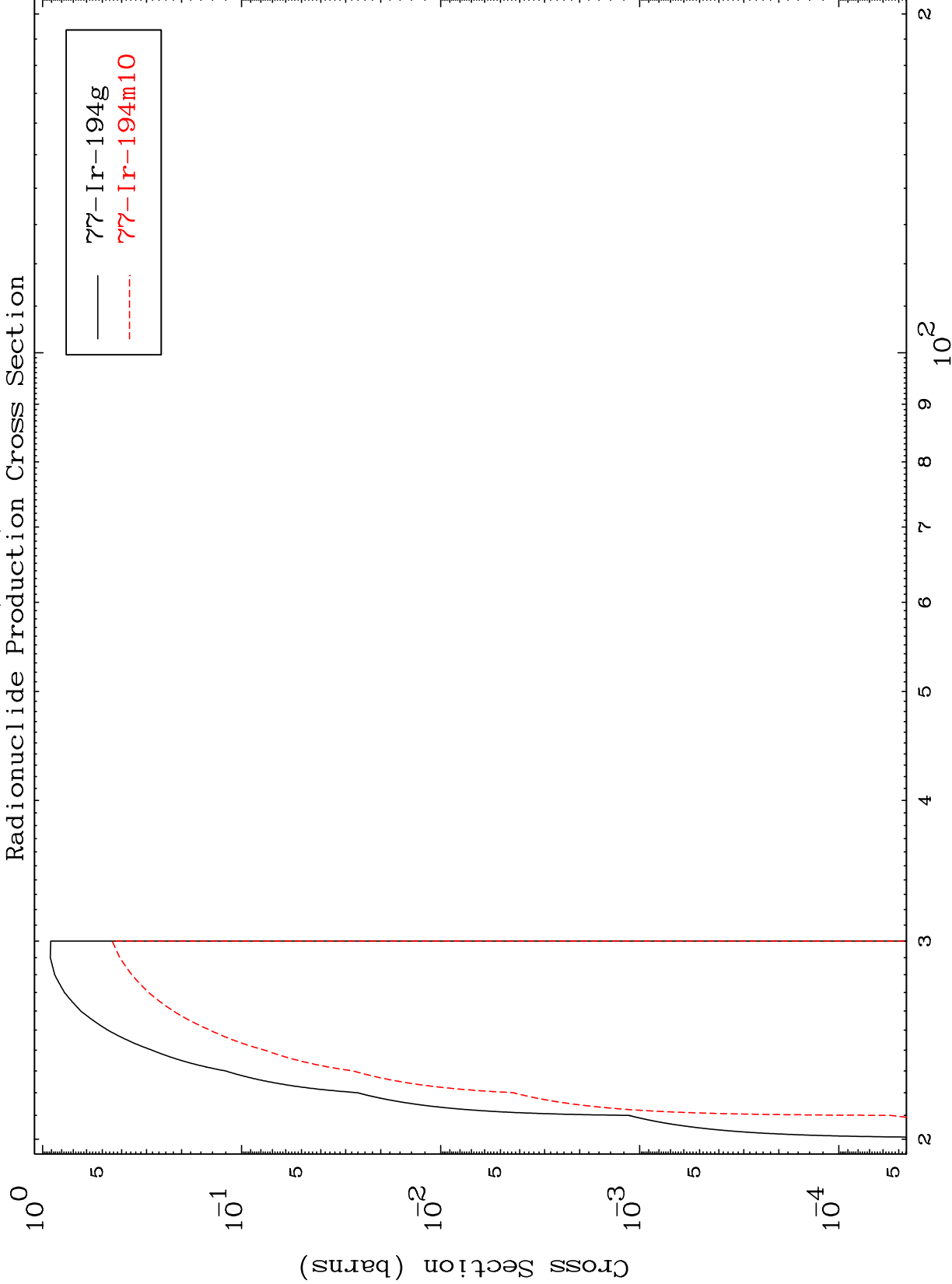
77-Ir-197

MAT 7743

(n,4n)

77-Ir-197

Radionuclide Production Cross Section



145

Incident Energy (MeV)

77-Ir-197