

Program EVALPLOT
(Version 2015-2)

by

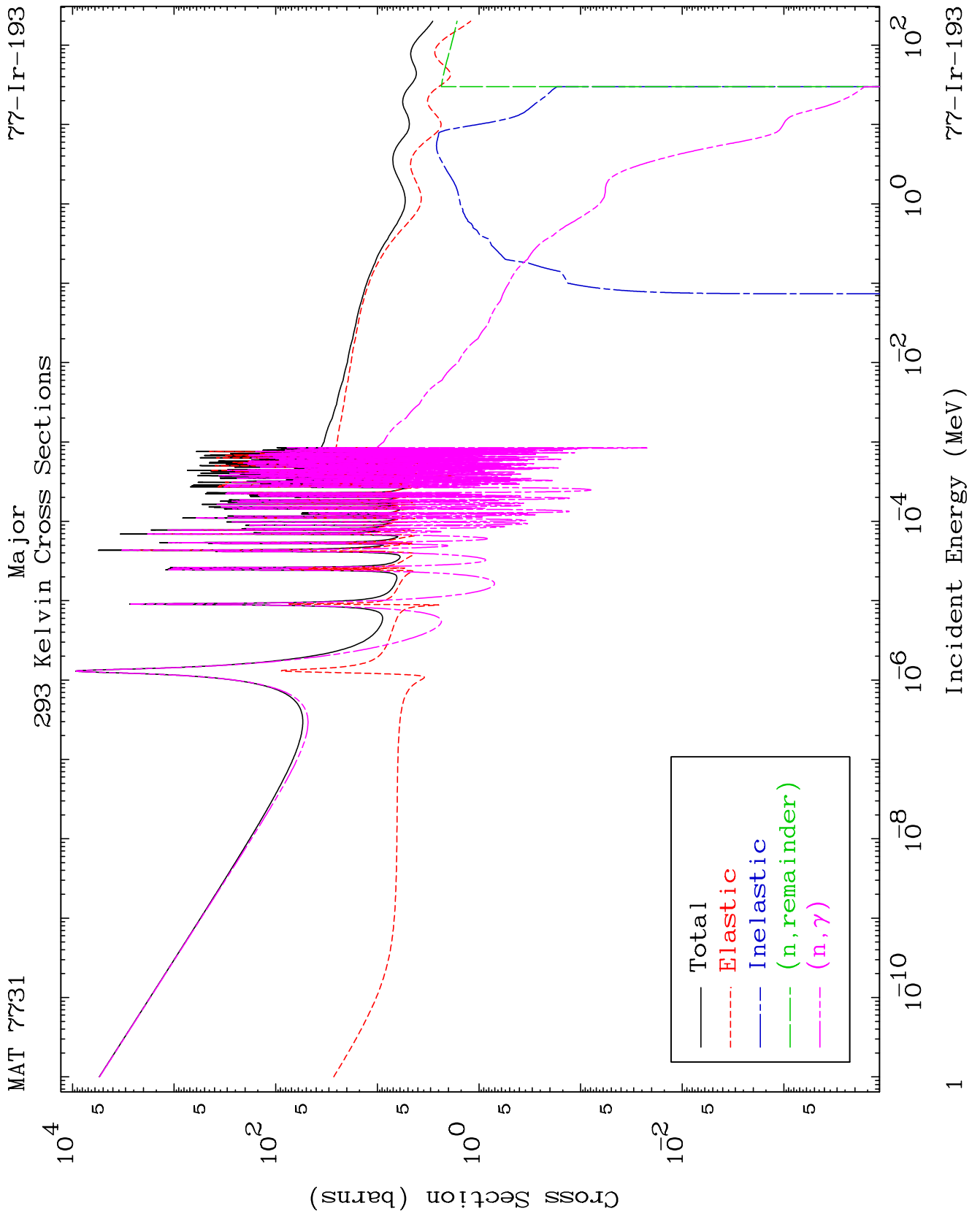
Dermott E. Cullen
(Present Contact Information)

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Livermore, CA 94550
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net
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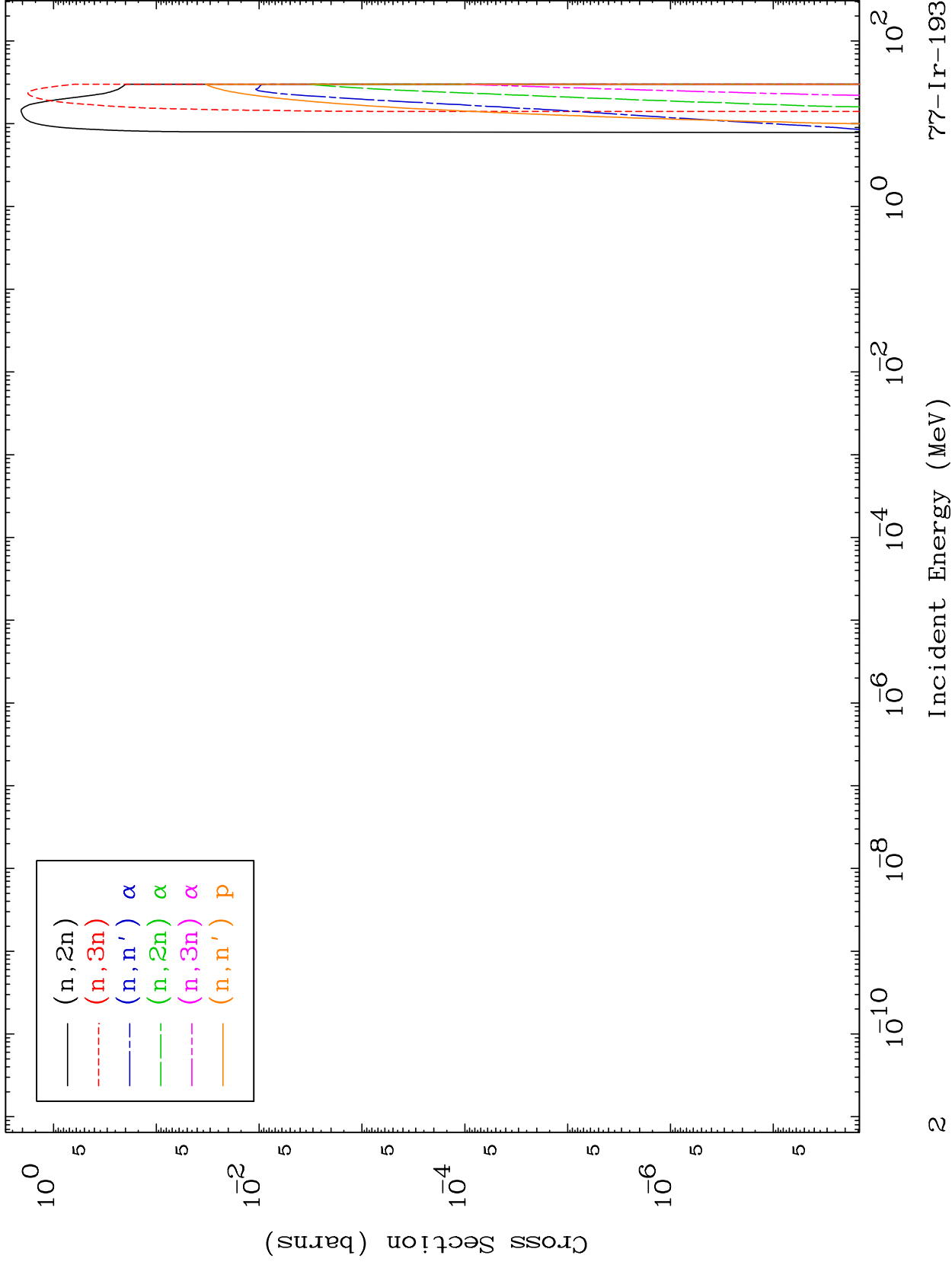
Press Mouse Button to Start

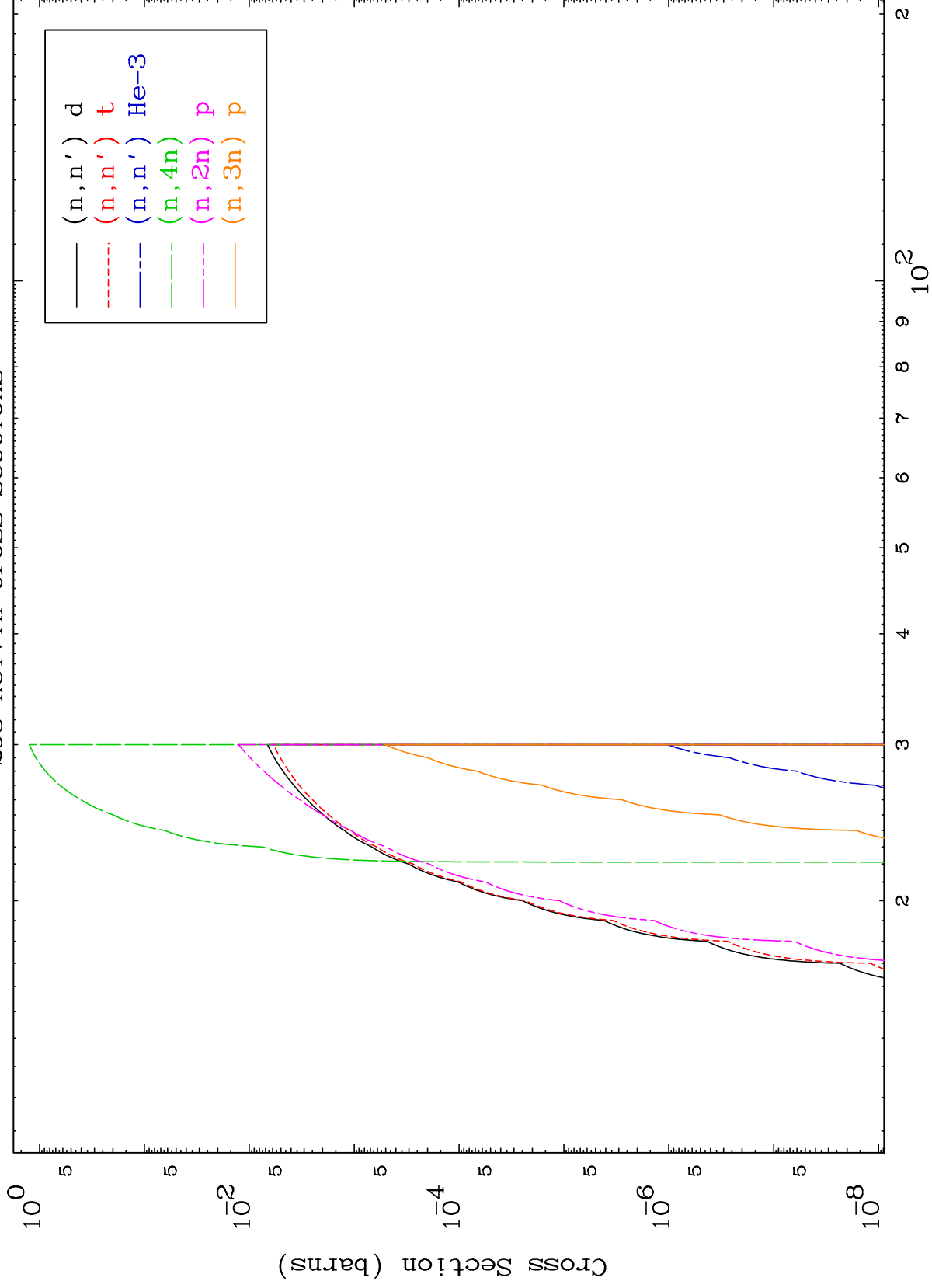


MAT 7731

Neutron Production
293 Kelvin Cross Sections

77-Ir-193

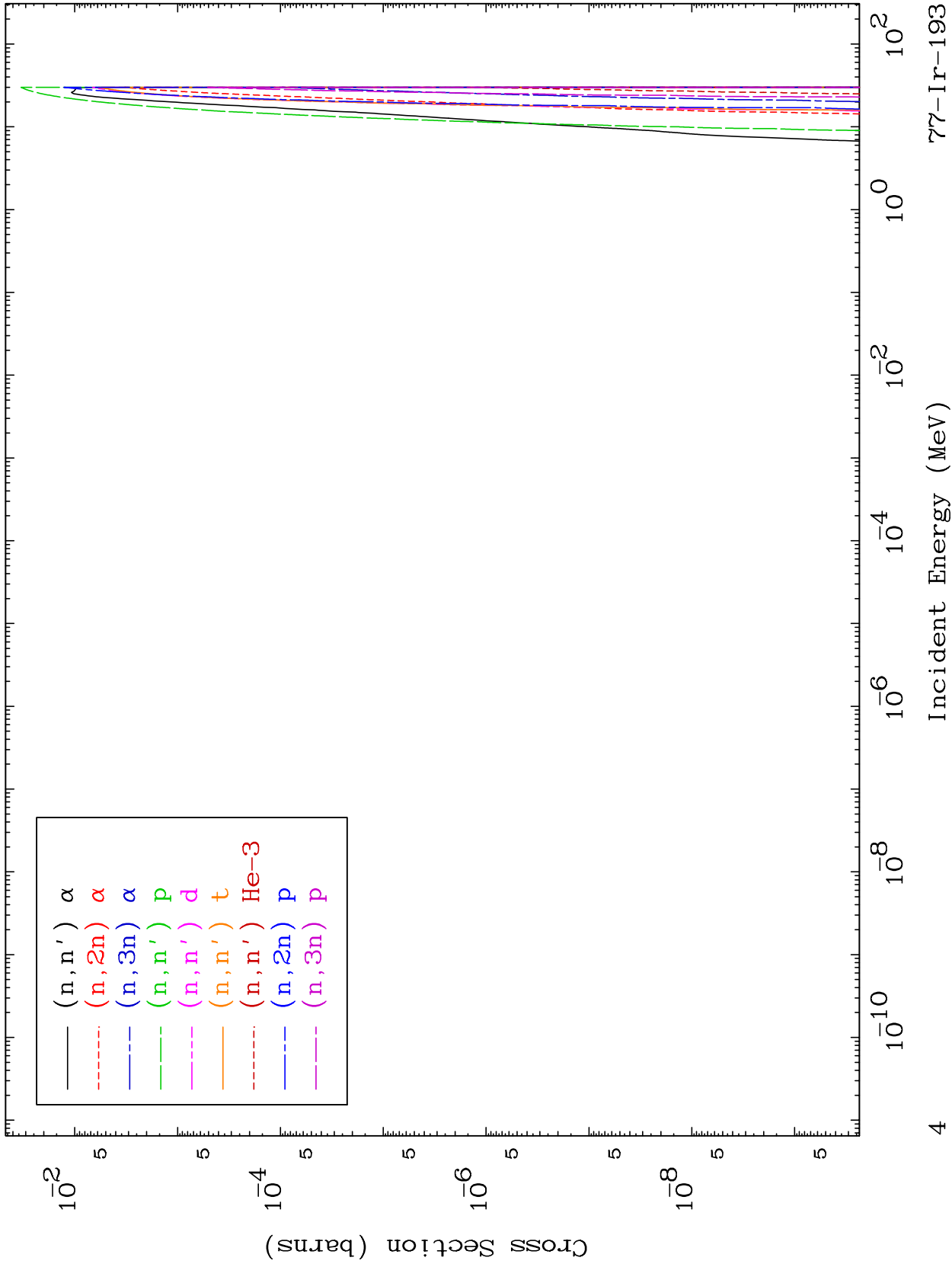




MAT 7731

Charged Particle
293 Kelvin Cross Sections

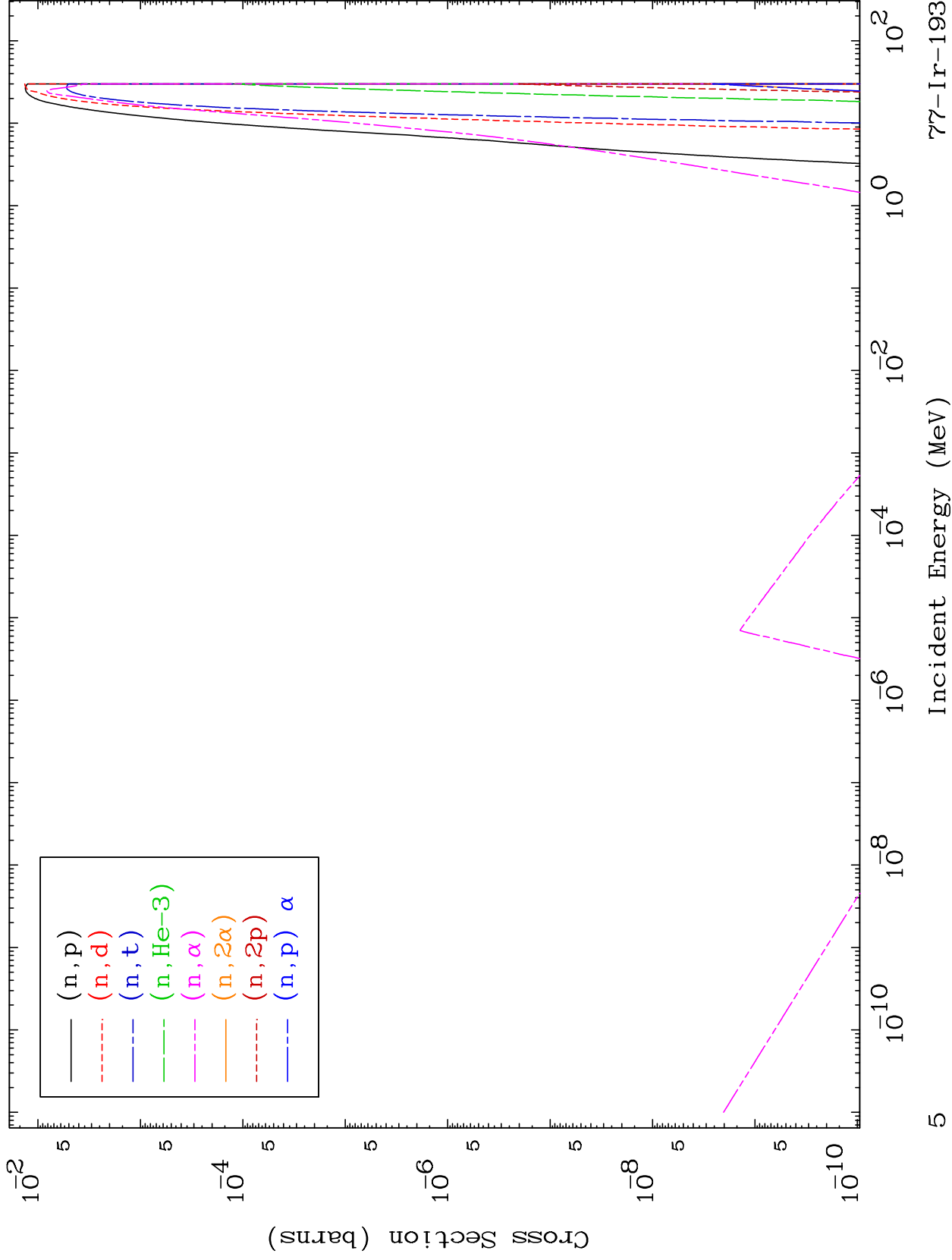
77-Ir-193



MAT 7731

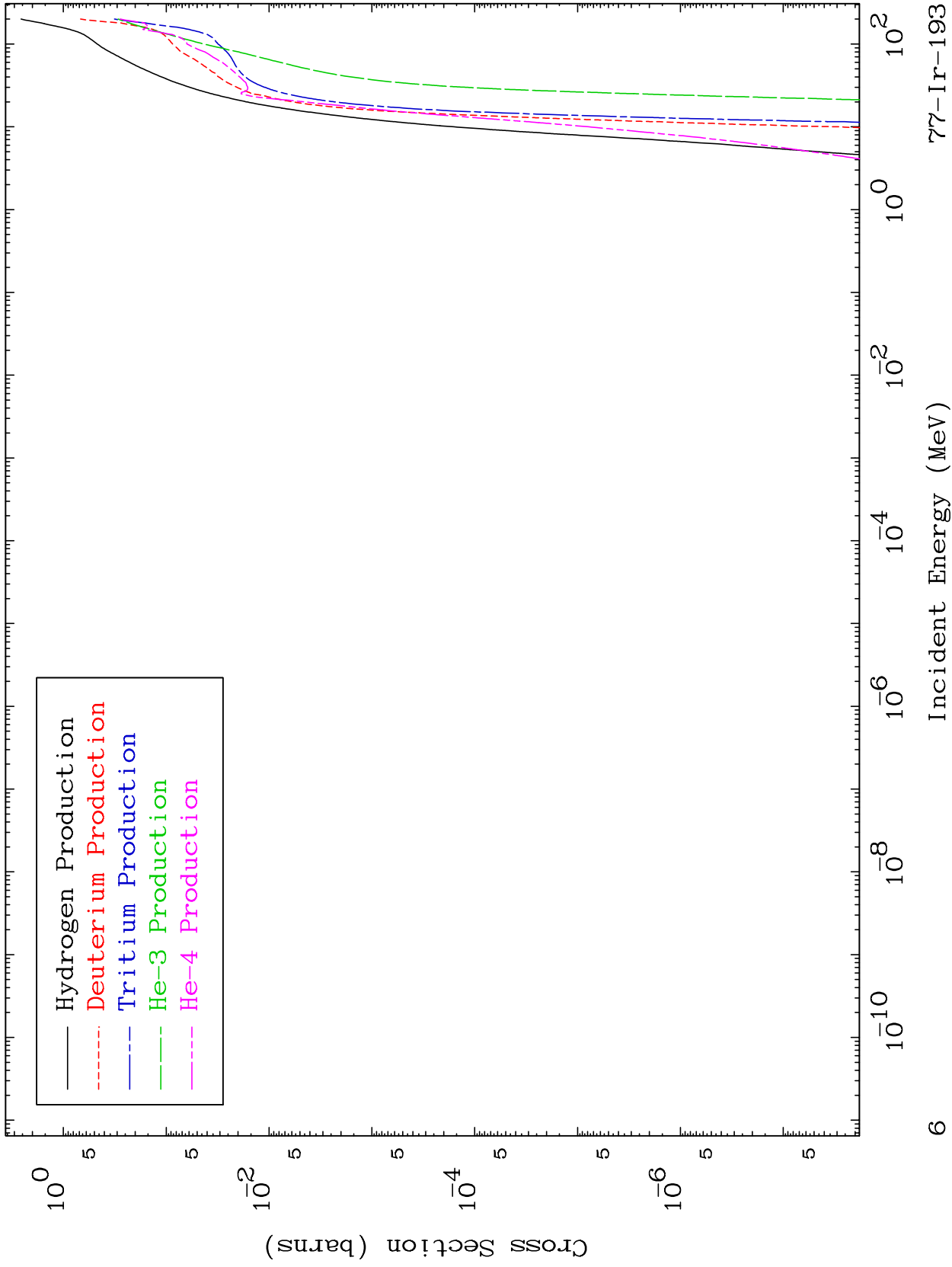
Charged Particle
293 Kelvin Cross Sections

77-Ir-193



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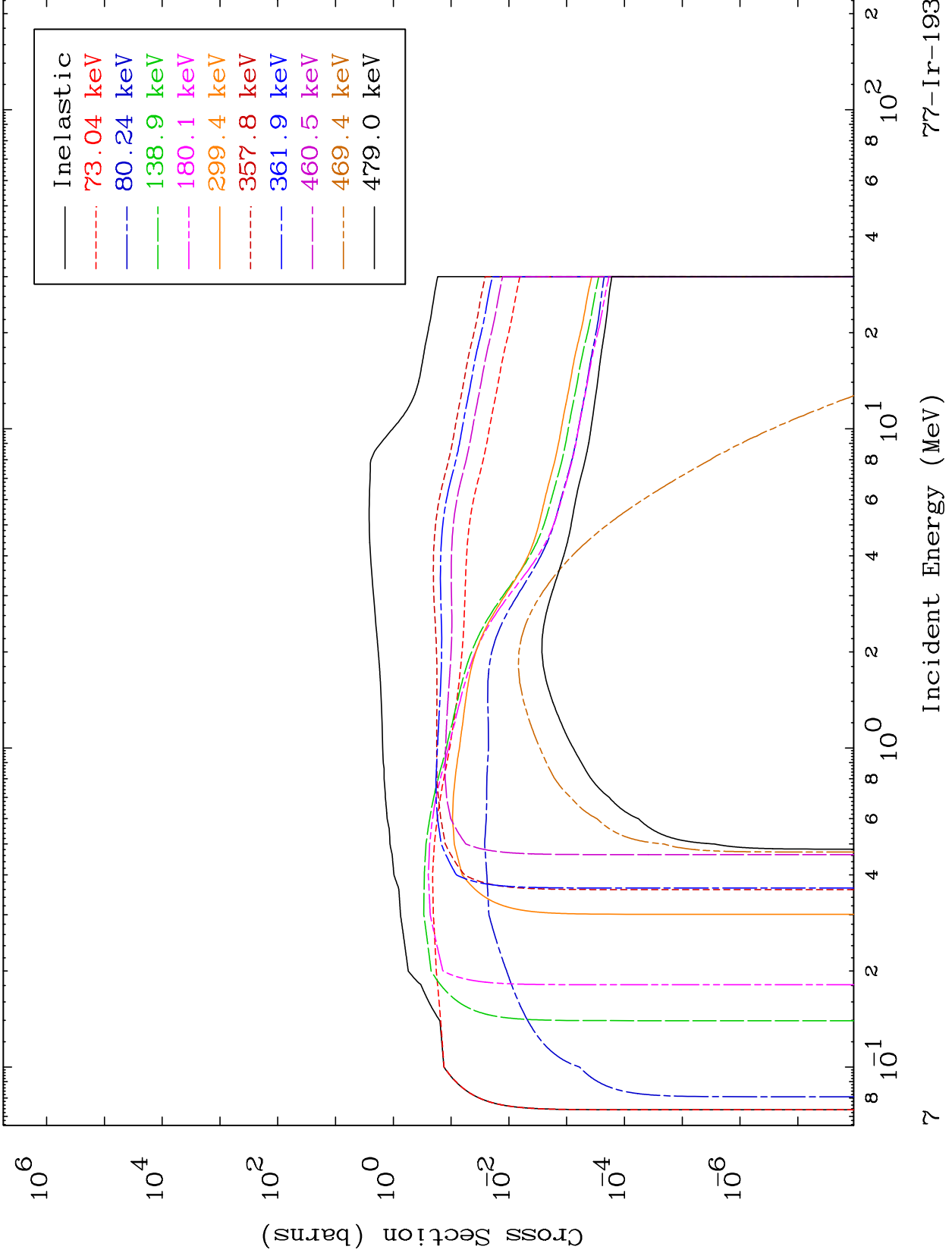
77-Ir-193



MAT 7731

(n,n') Level
293 Kelvin Cross Sections

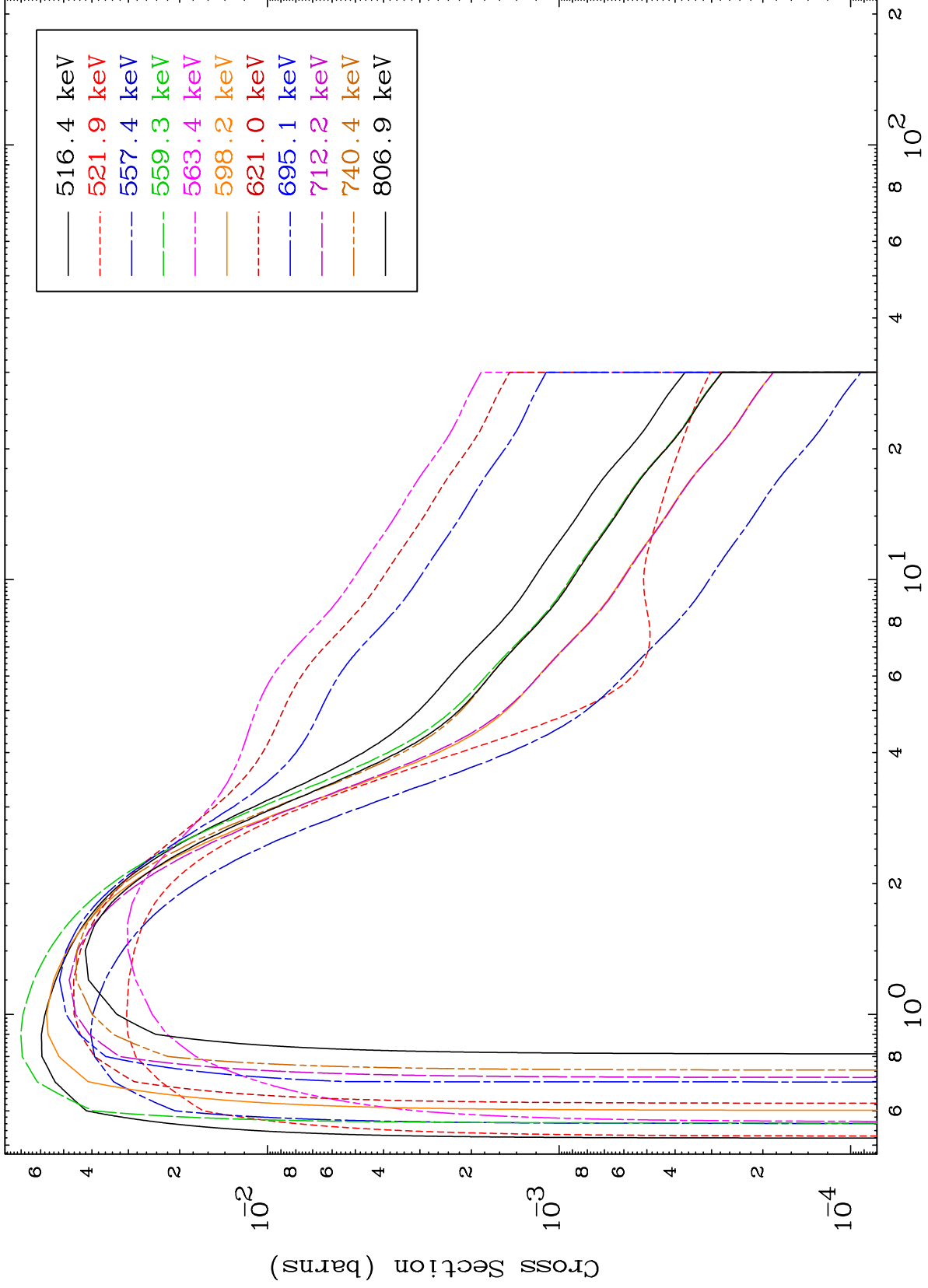
77-Ir-193



MAT 7731

(n,n') Level
293 Kelvin Cross Sections

77-Ir-193



8

Incident Energy (MeV)

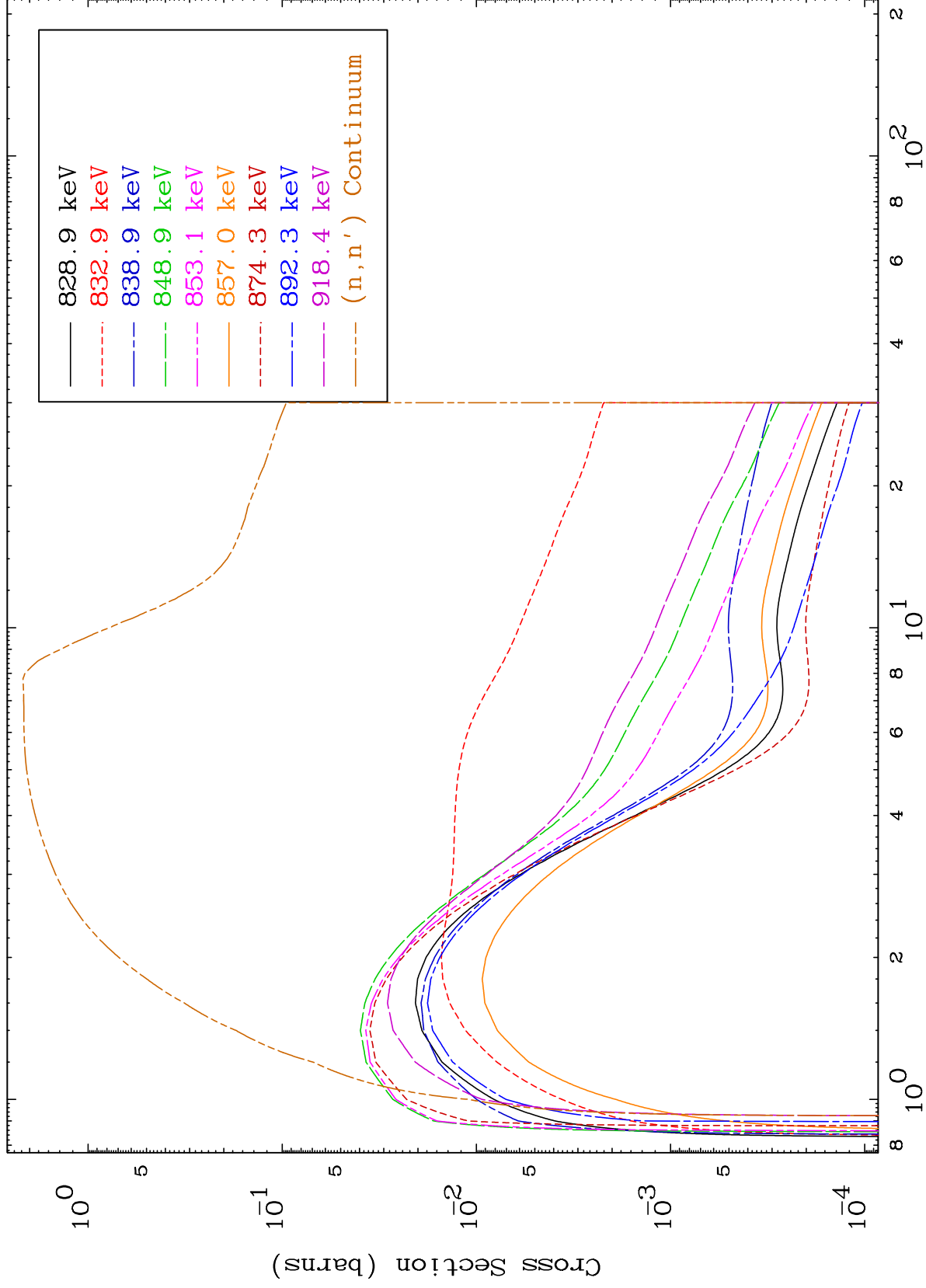
77-Ir-193

MAT 7731

(n,n') Level

77-Ir-193

293 Kelvin Cross Sections



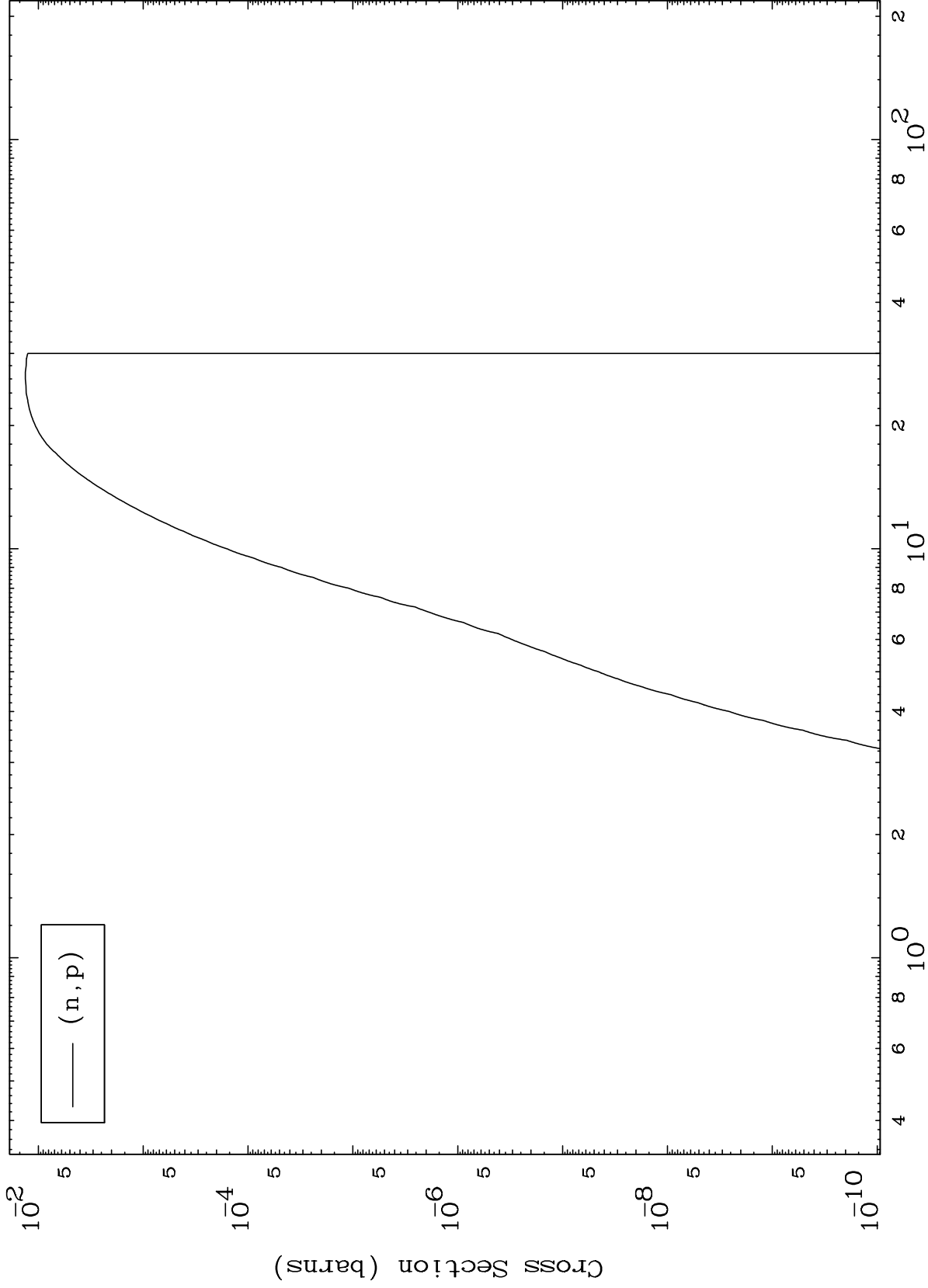
Incident Energy (MeV)

77-Ir-193

MAT 7731

(n,p) Levels
293 Kelvin Cross Sections

77-Ir-193



Incident Energy (MeV)

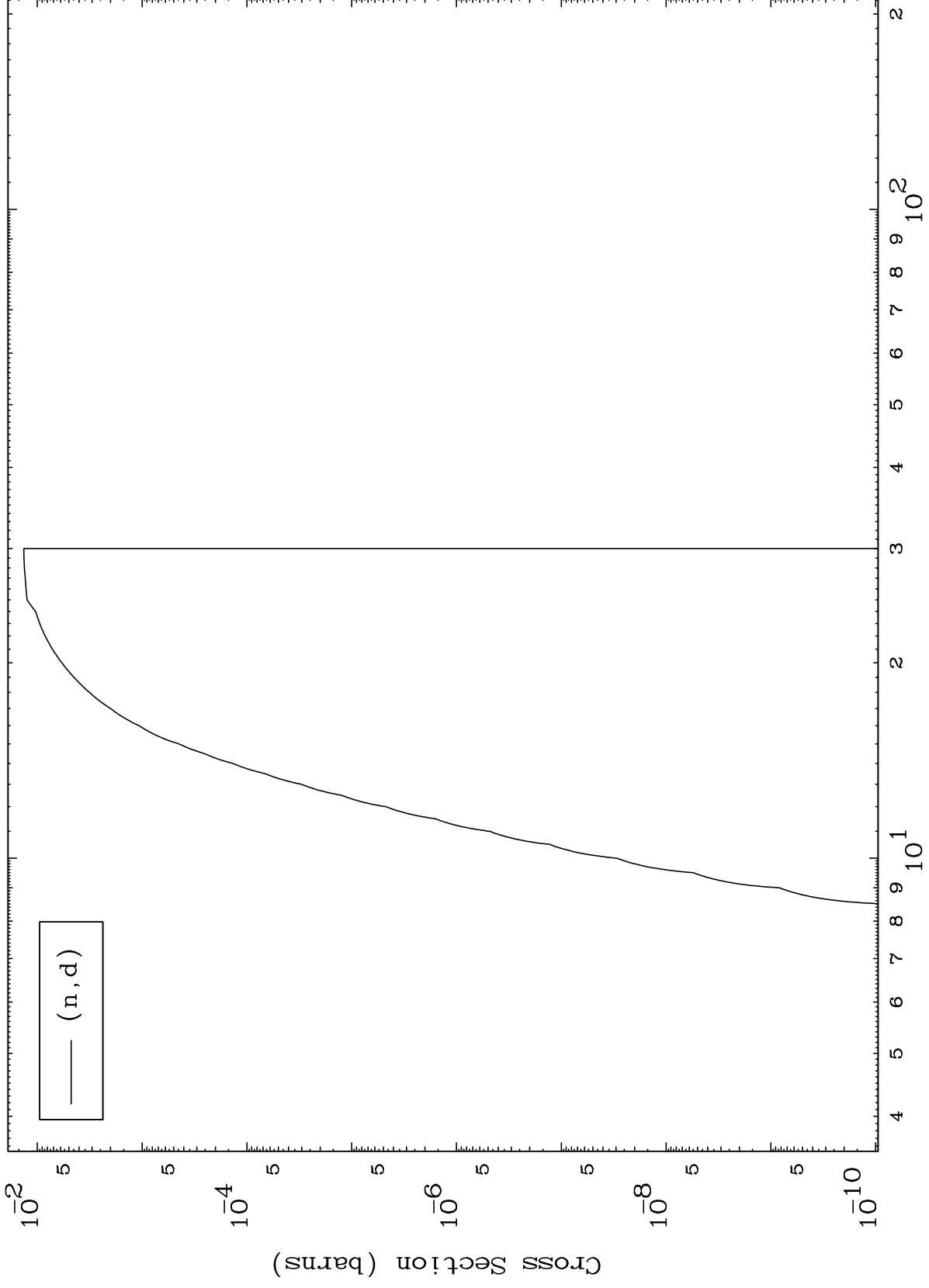
77-Ir-193

10

MAT 7731

(n,d) Levels
293 Kelvin Cross Sections

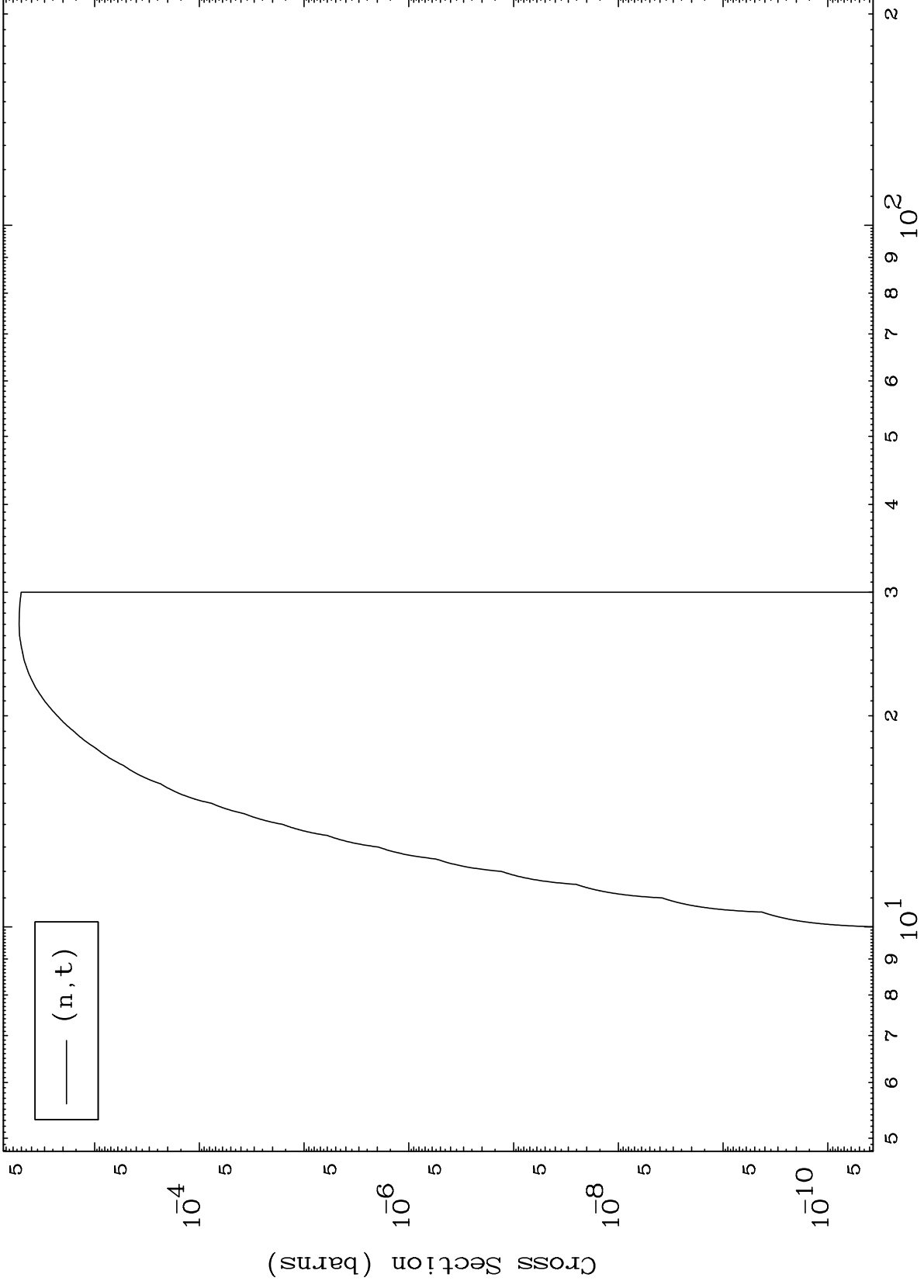
77-Ir-193



MAT 7731

(n,t) Levels
293 Kelvin Cross Sections

77-Ir-193



12

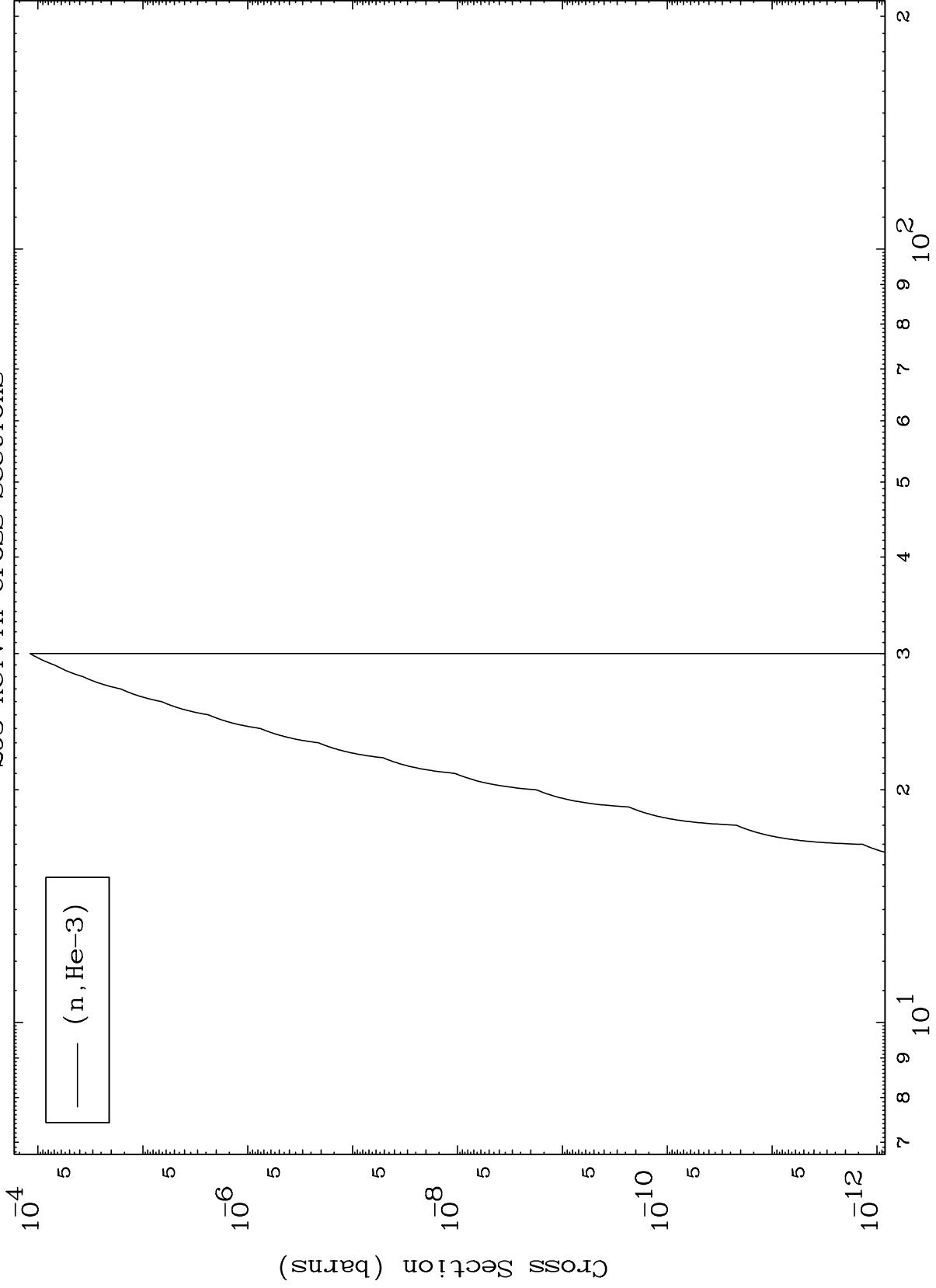
Incident Energy (MeV)

77-Ir-193

MAT 7731

(n,He3) Levels
293 Kelvin Cross Sections

77-Ir-193



13

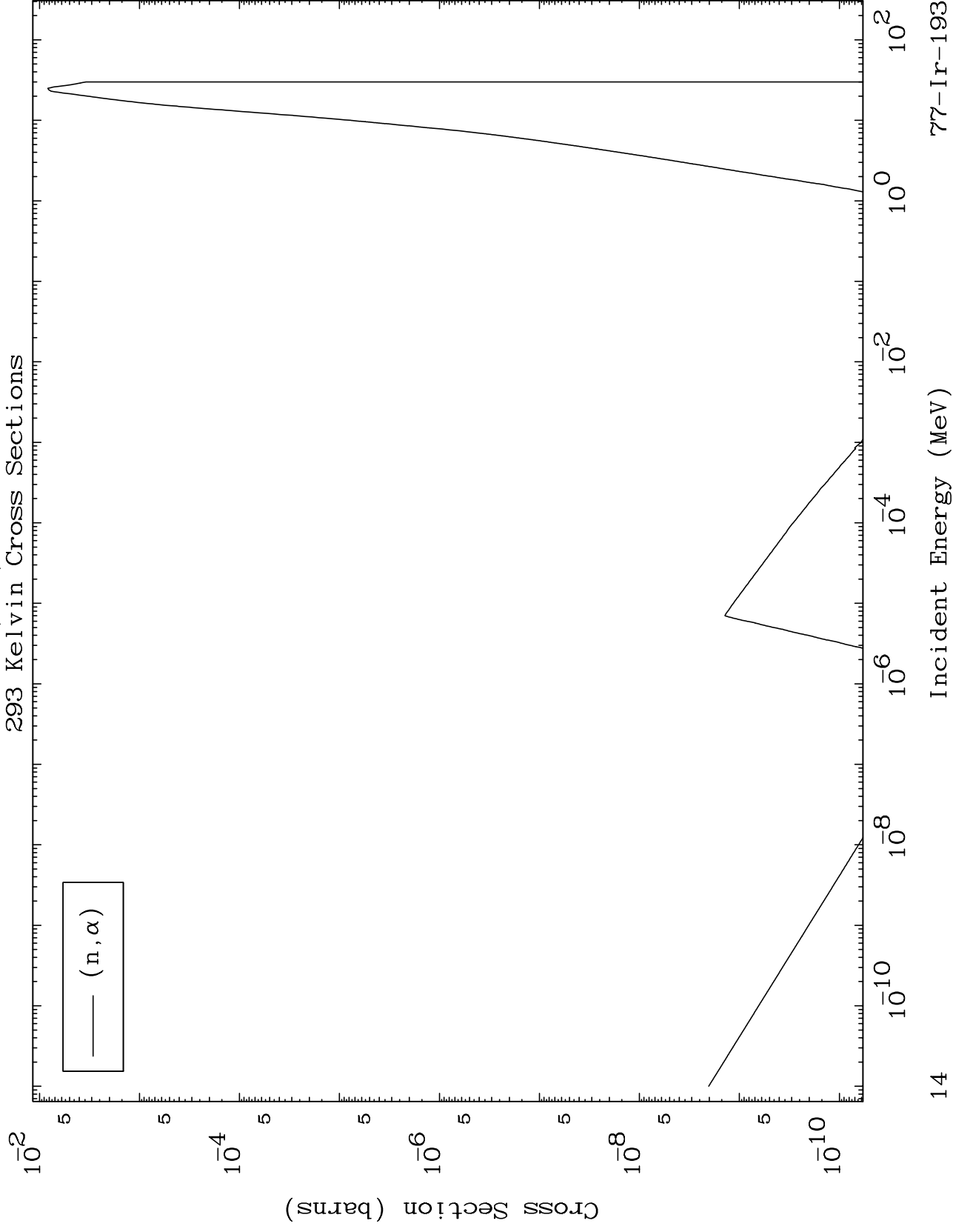
Incident Energy (MeV)

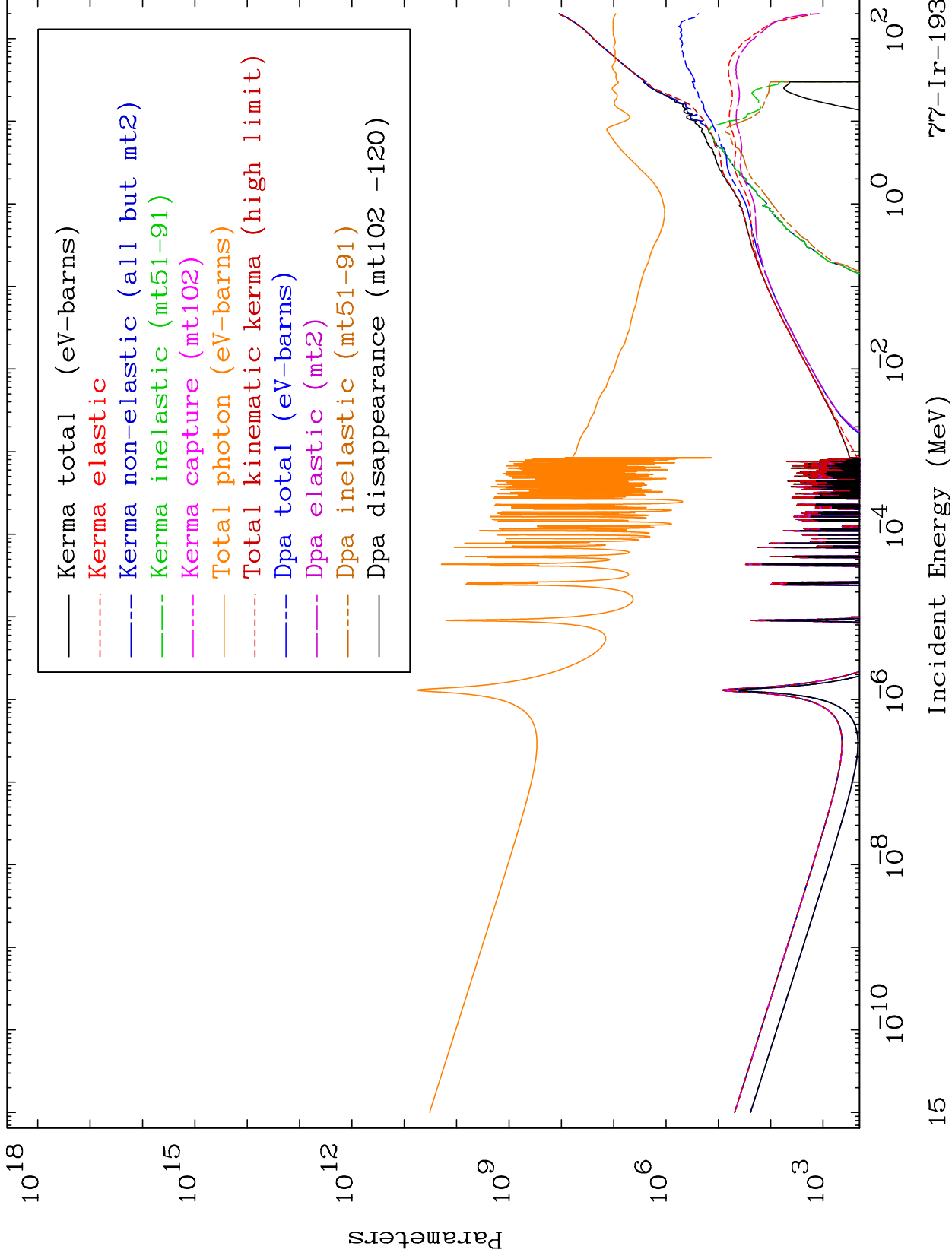
77-Ir-193

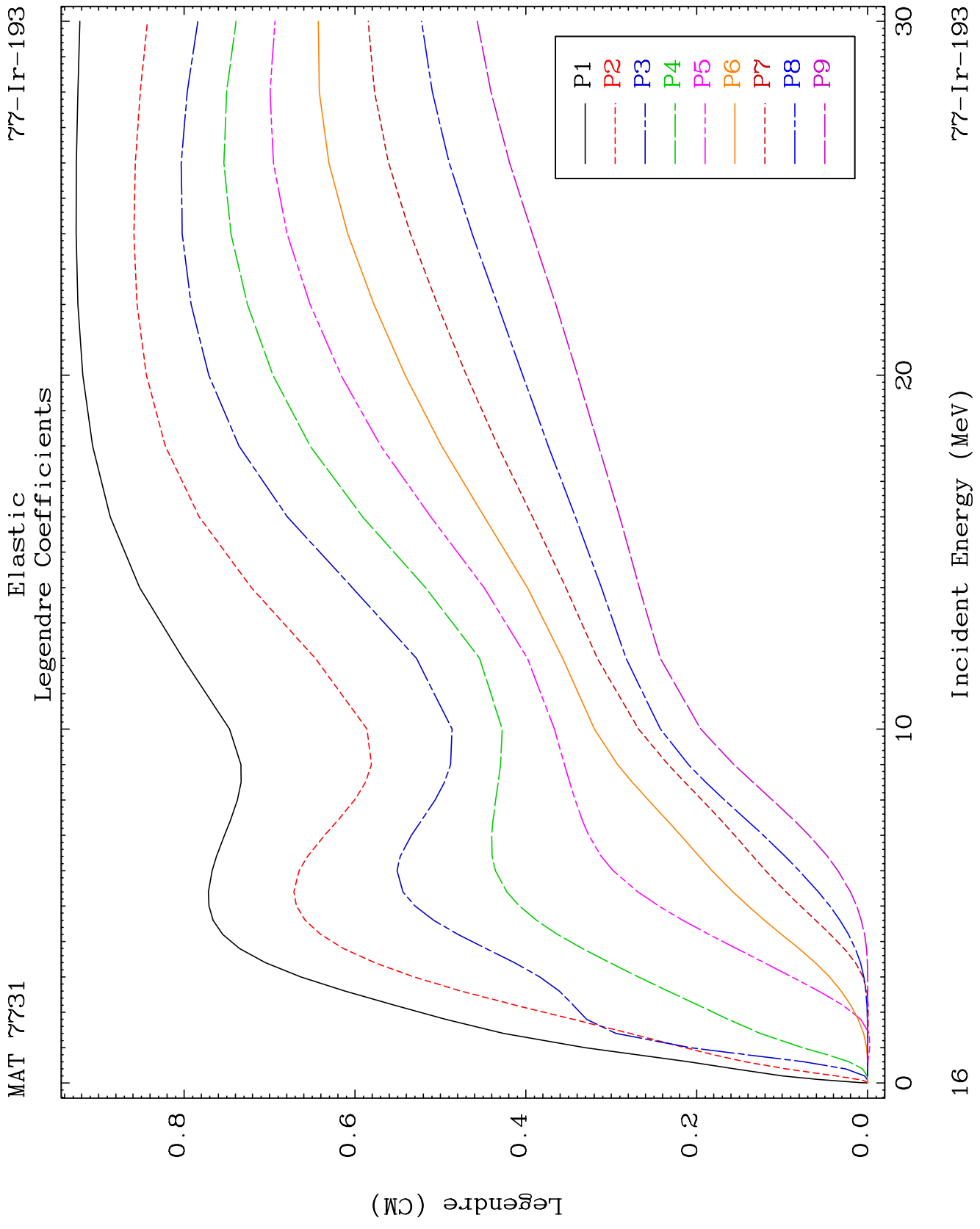
MAT 7731

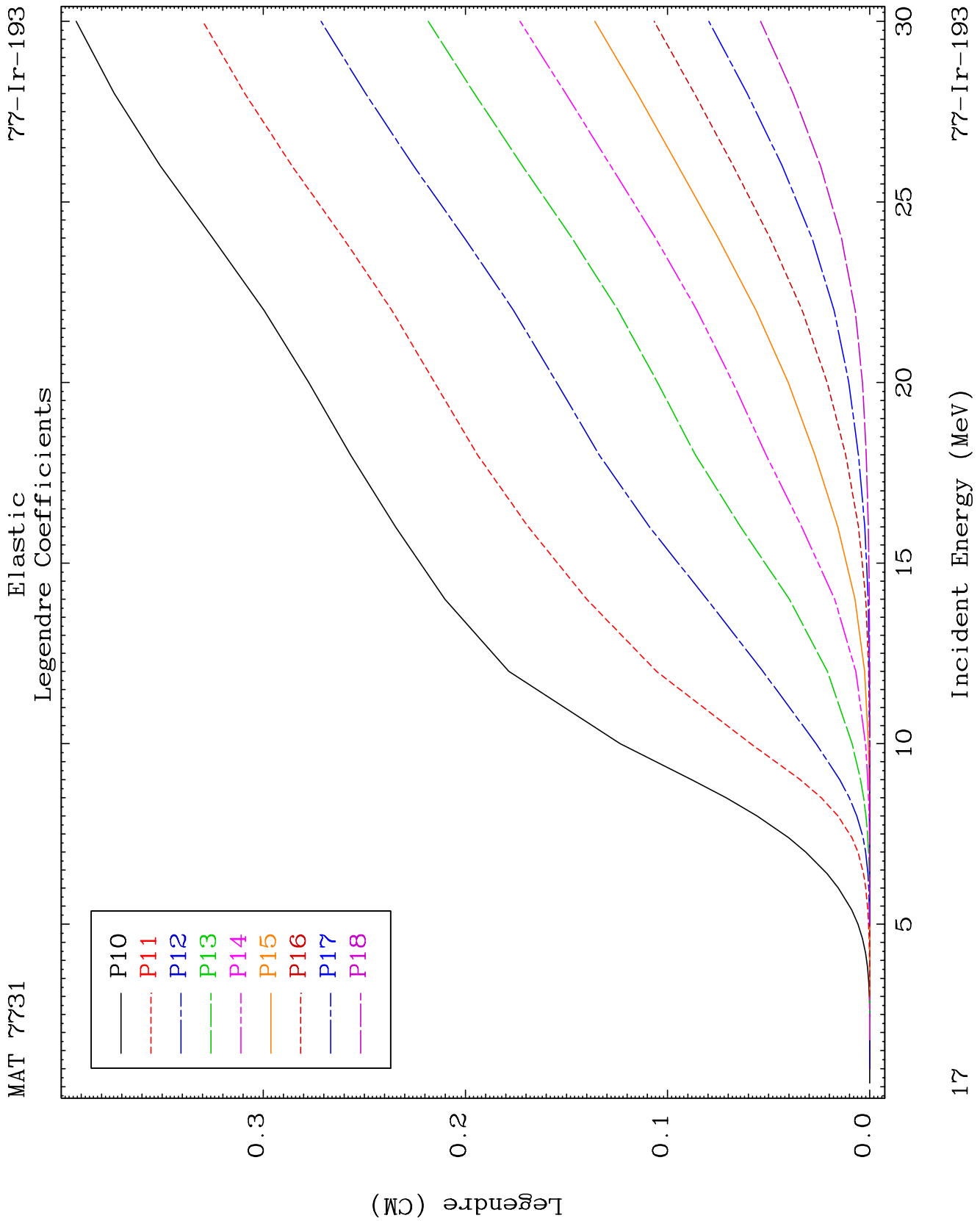
(n, α) Levels
293 Kelvin Cross Sections

⁷⁷Ir-193





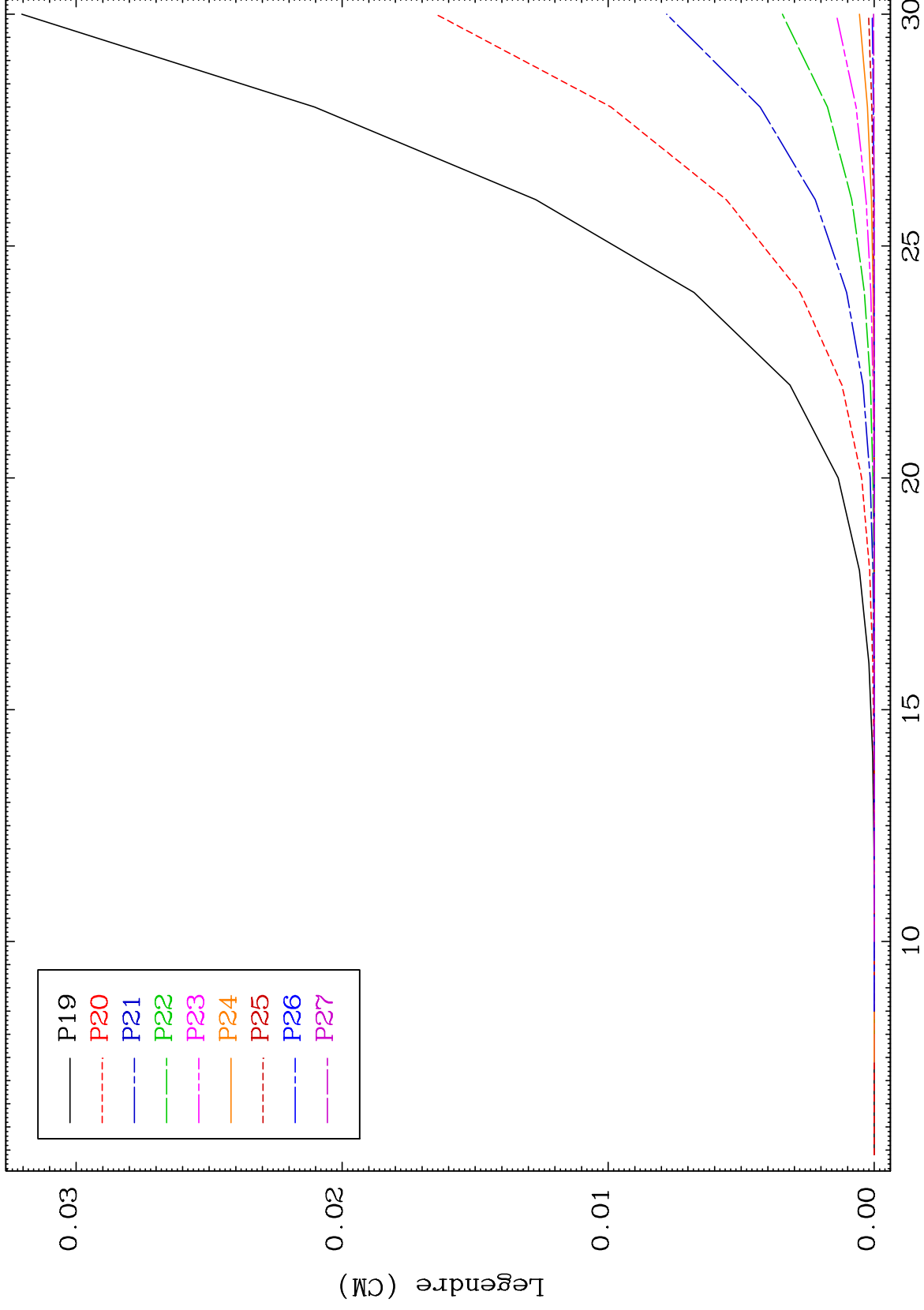




MAT 7731

Elastic
Legendre Coefficients

77-Ir-193



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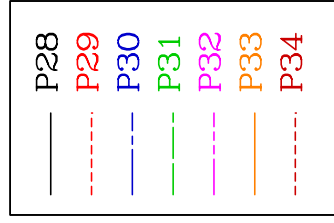
Incident Energy (MeV)

77-Ir-193

MAT 7731

Elastic
Legendre Coefficients

77-Ir-193



$\times 10^{-6}$

Legendre (CM)

8

6

4

2

0

15

20

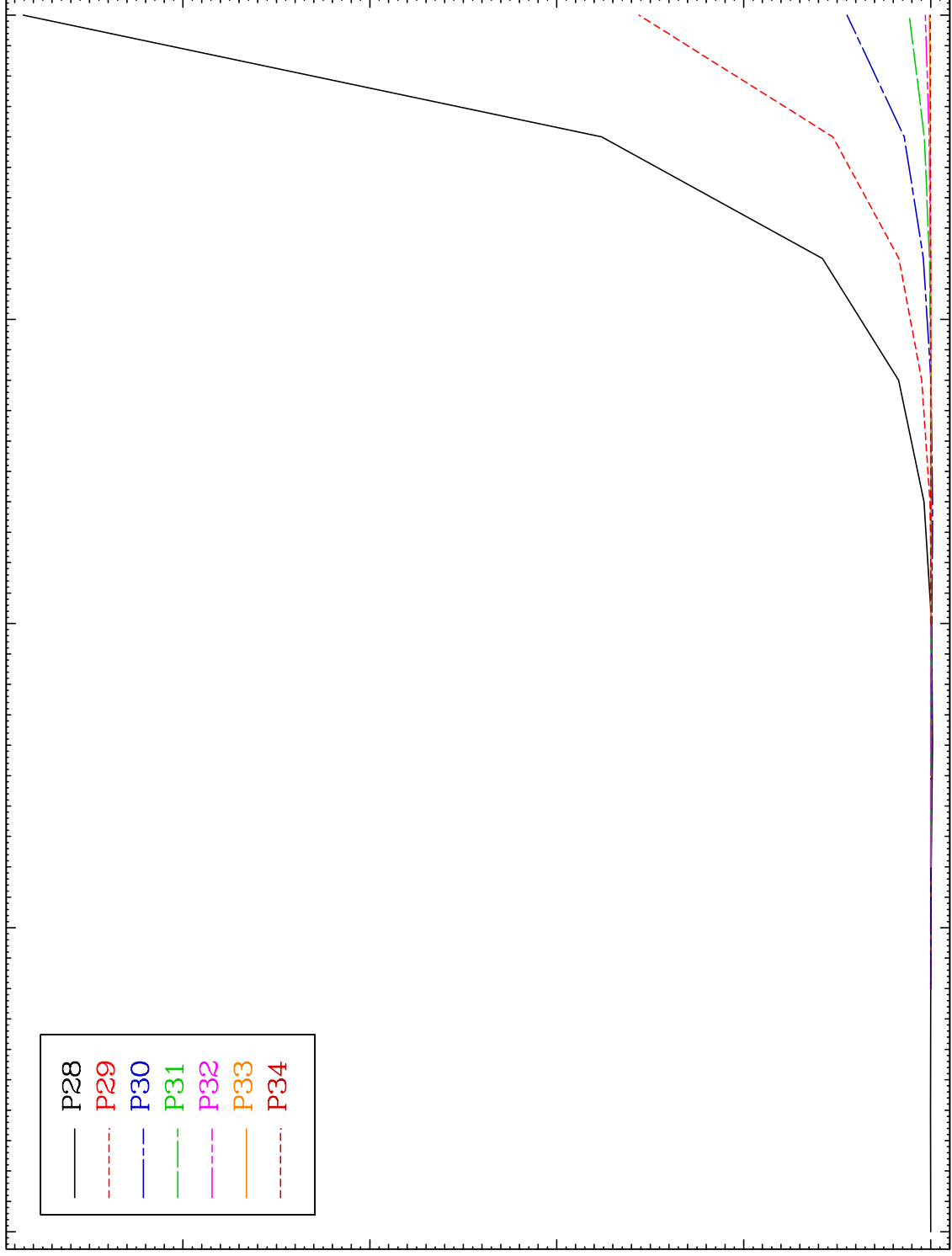
25

30

19

Incident Energy (MeV)

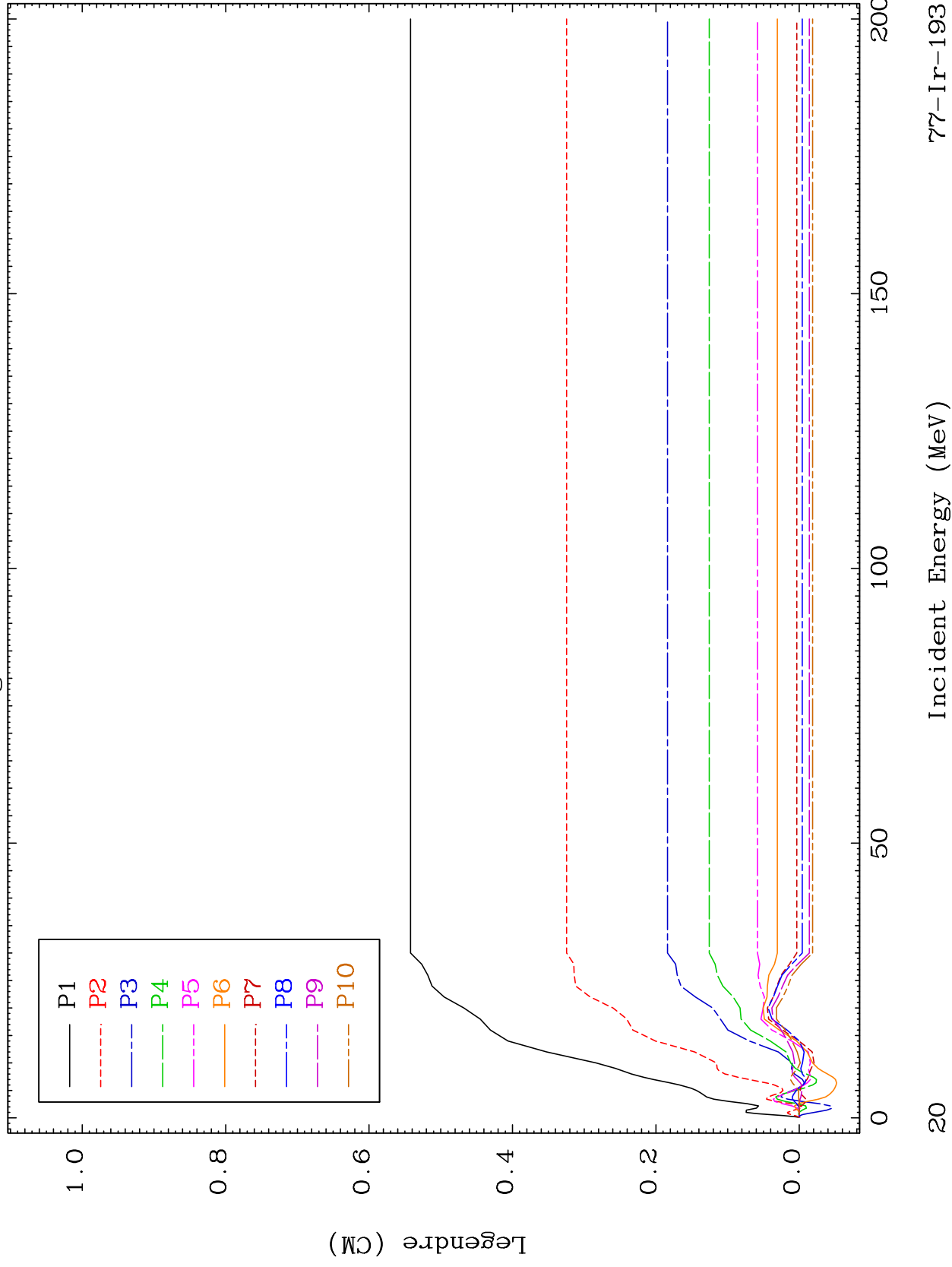
77-Ir-193



MAT 7731

73.04 keV (n,n') Level
Legendre Coefficients

77-Ir-193



77-Ir-193

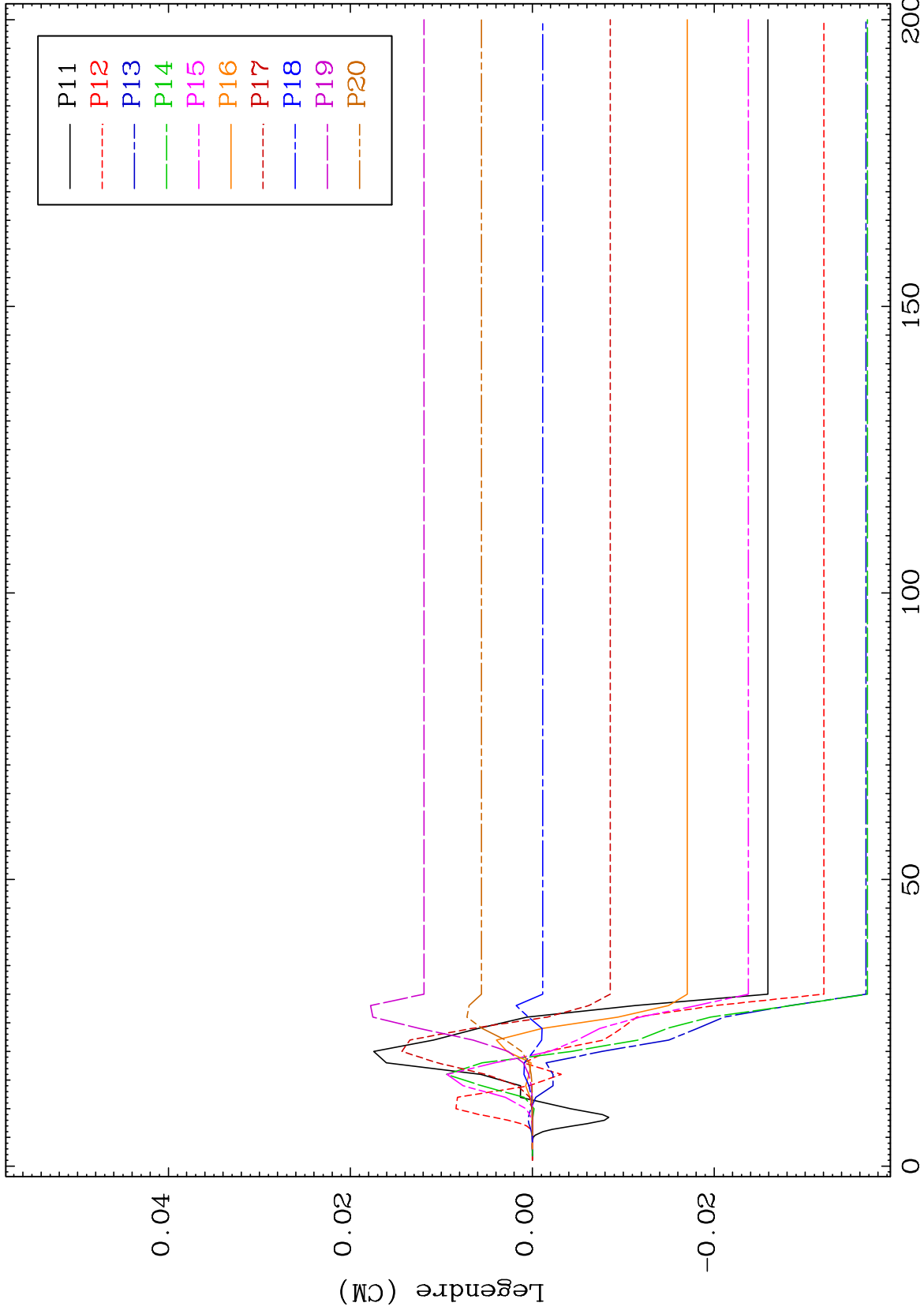
Incident Energy (MeV)

20

MAT 7731

73.04 keV (n,n') Level
Legendre Coefficients

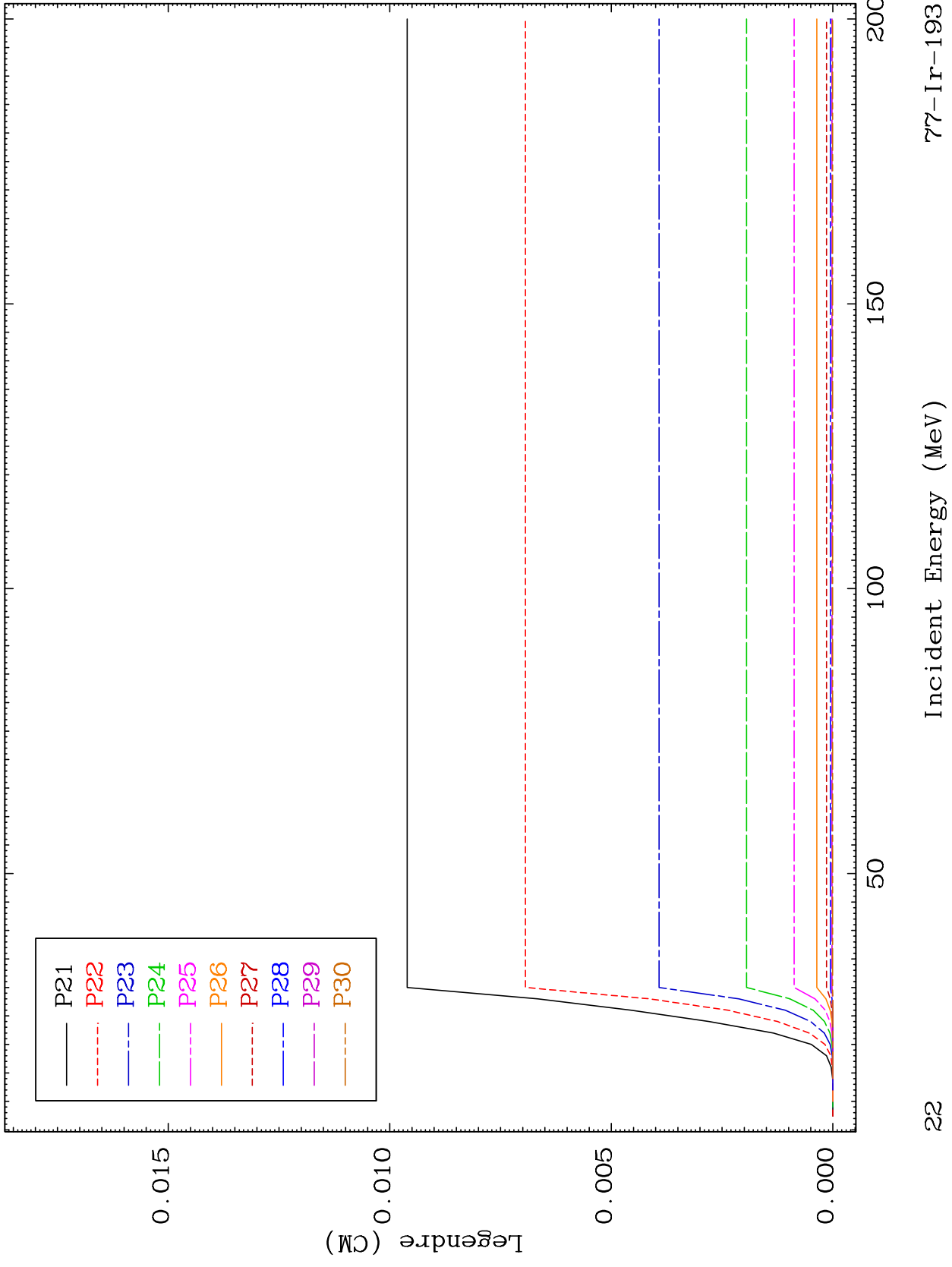
77-Ir-193

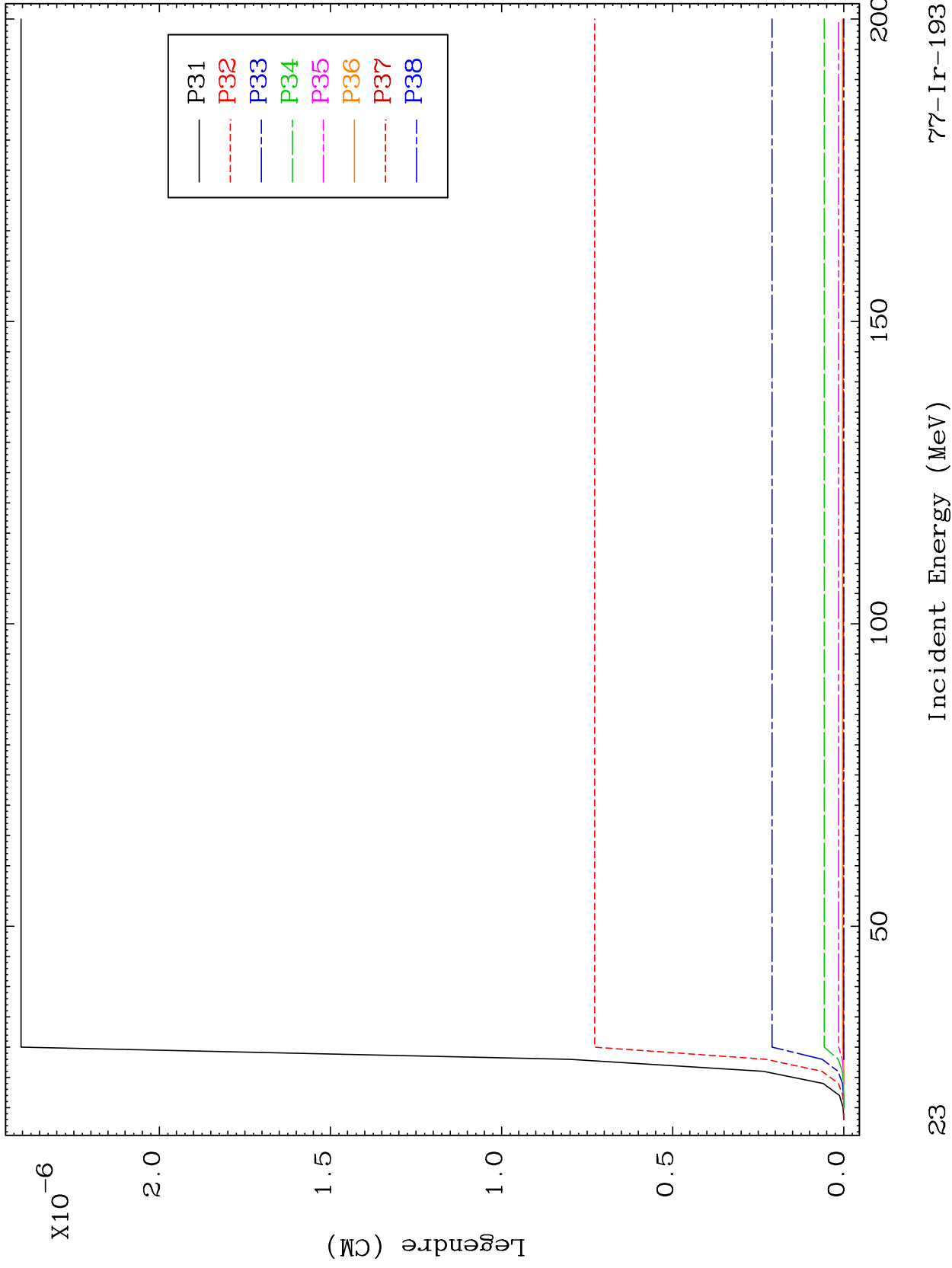


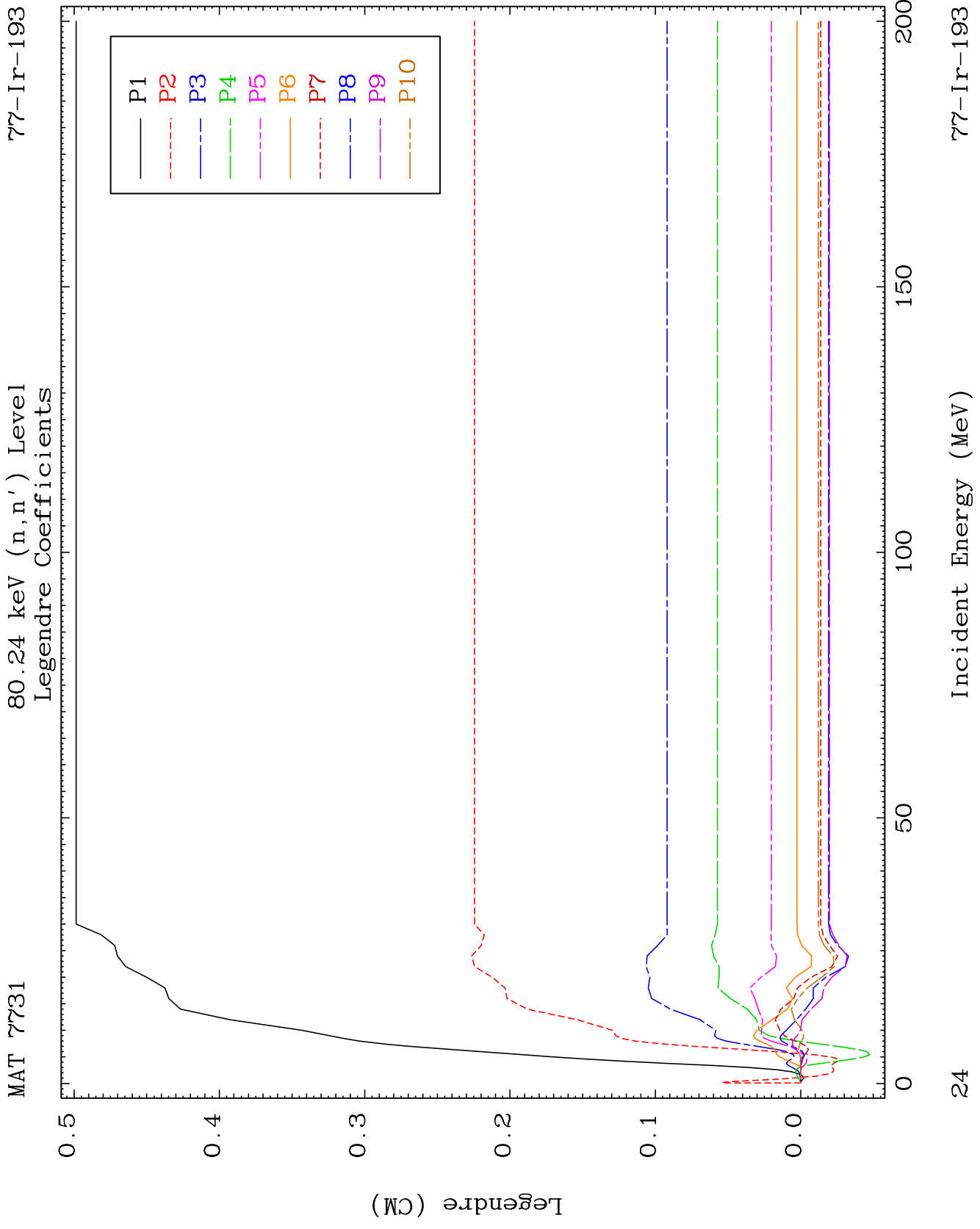
21

Incident Energy (MeV)

77-Ir-193



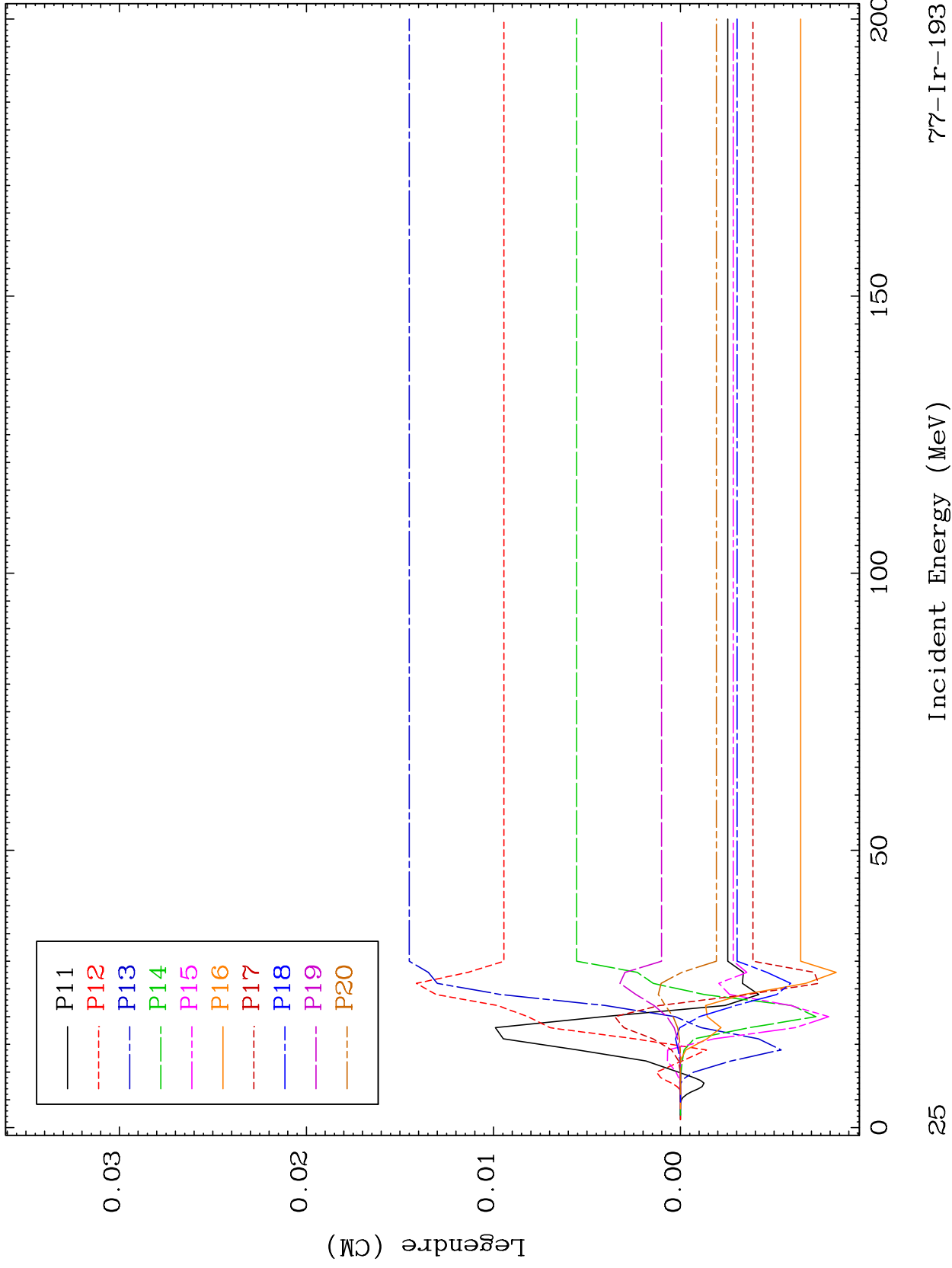




MAT 7731

80.24 keV (n,n') Level
Legendre Coefficients

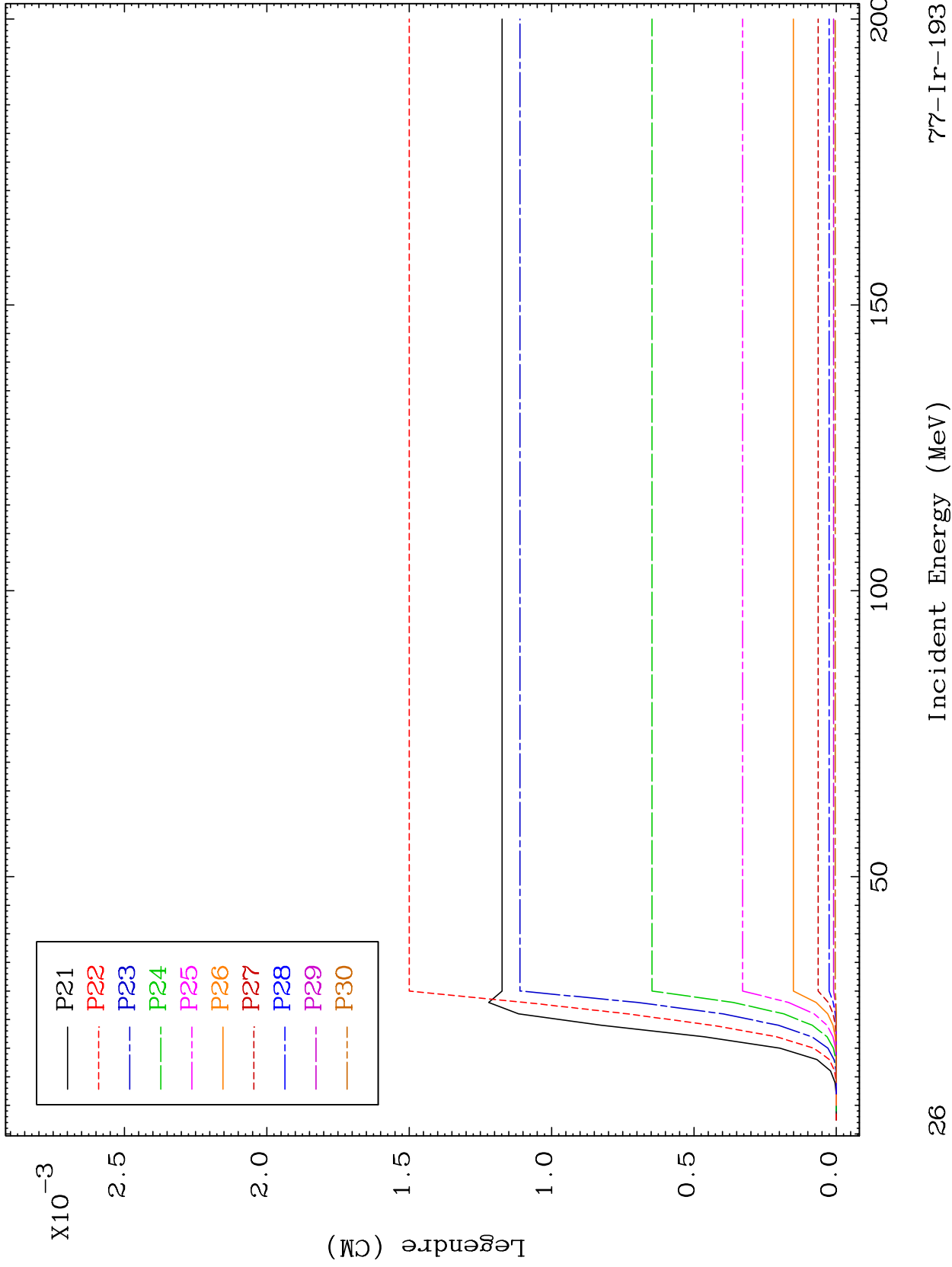
77-Ir-193



77-Ir-193

Incident Energy (MeV)

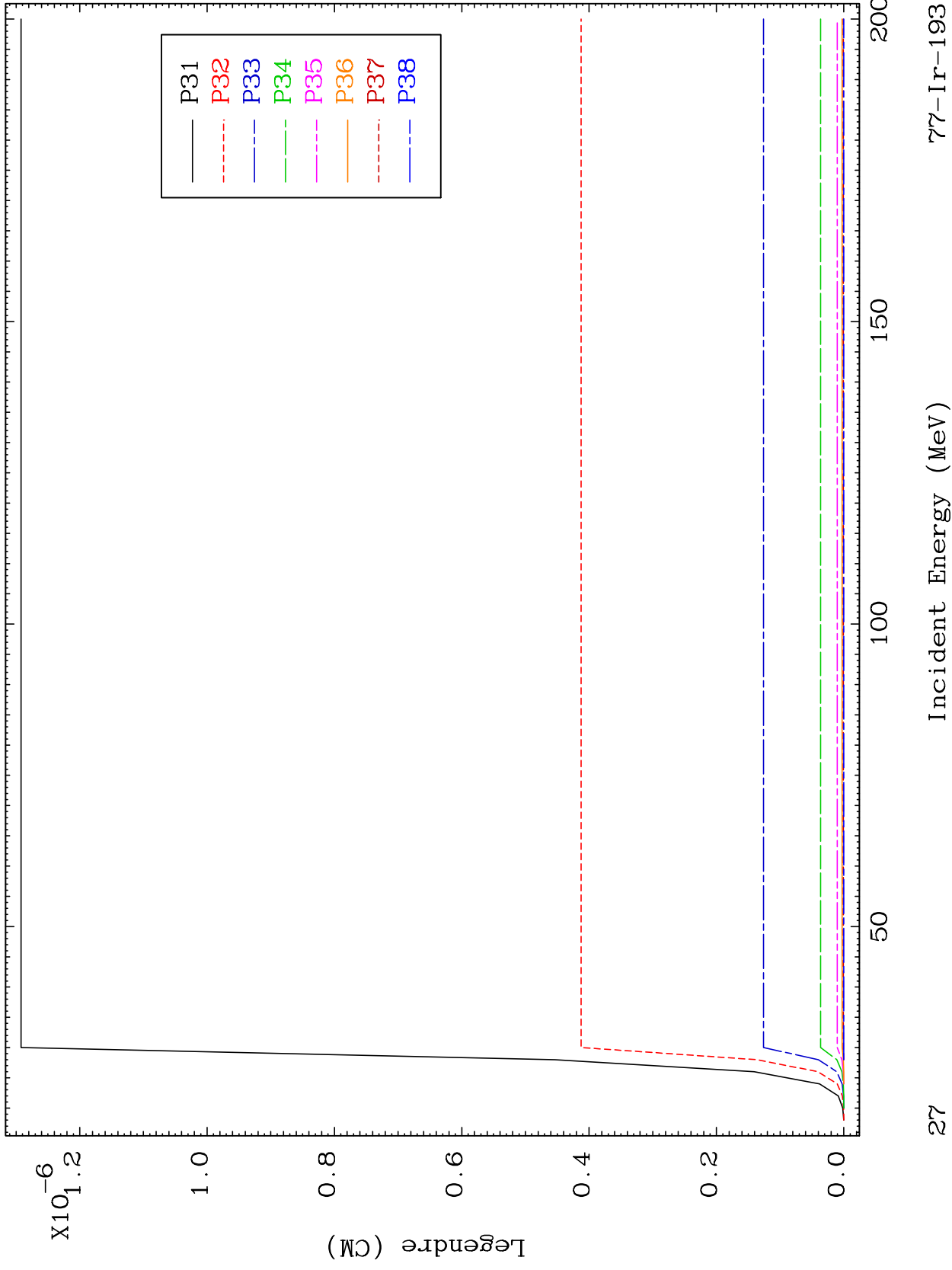
25



MAT 7731

80.24 keV (n,n') Level
Legendre Coefficients

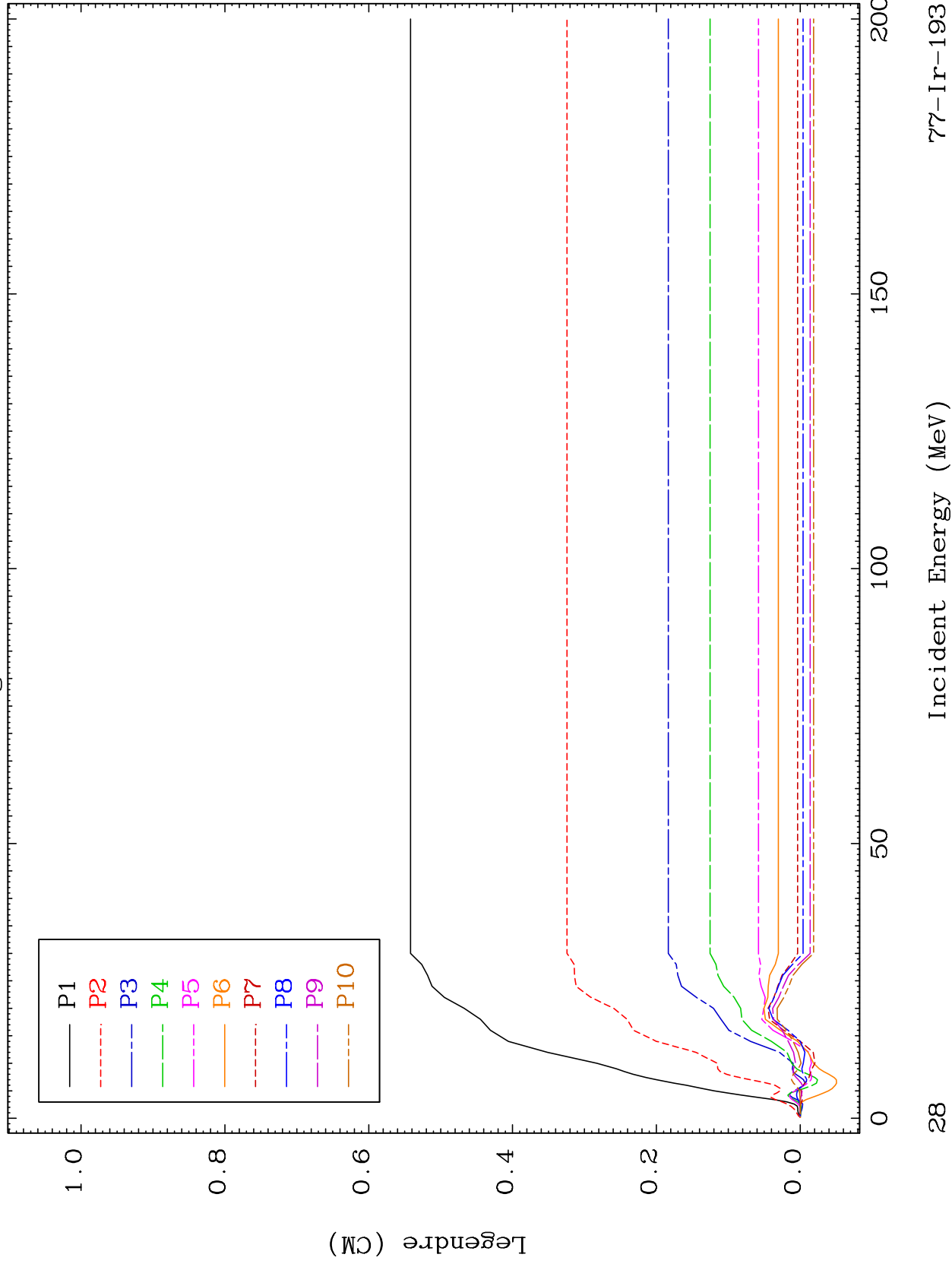
77-Ir-193



MAT 7731

138.9 keV (n,n') Level
Legendre Coefficients

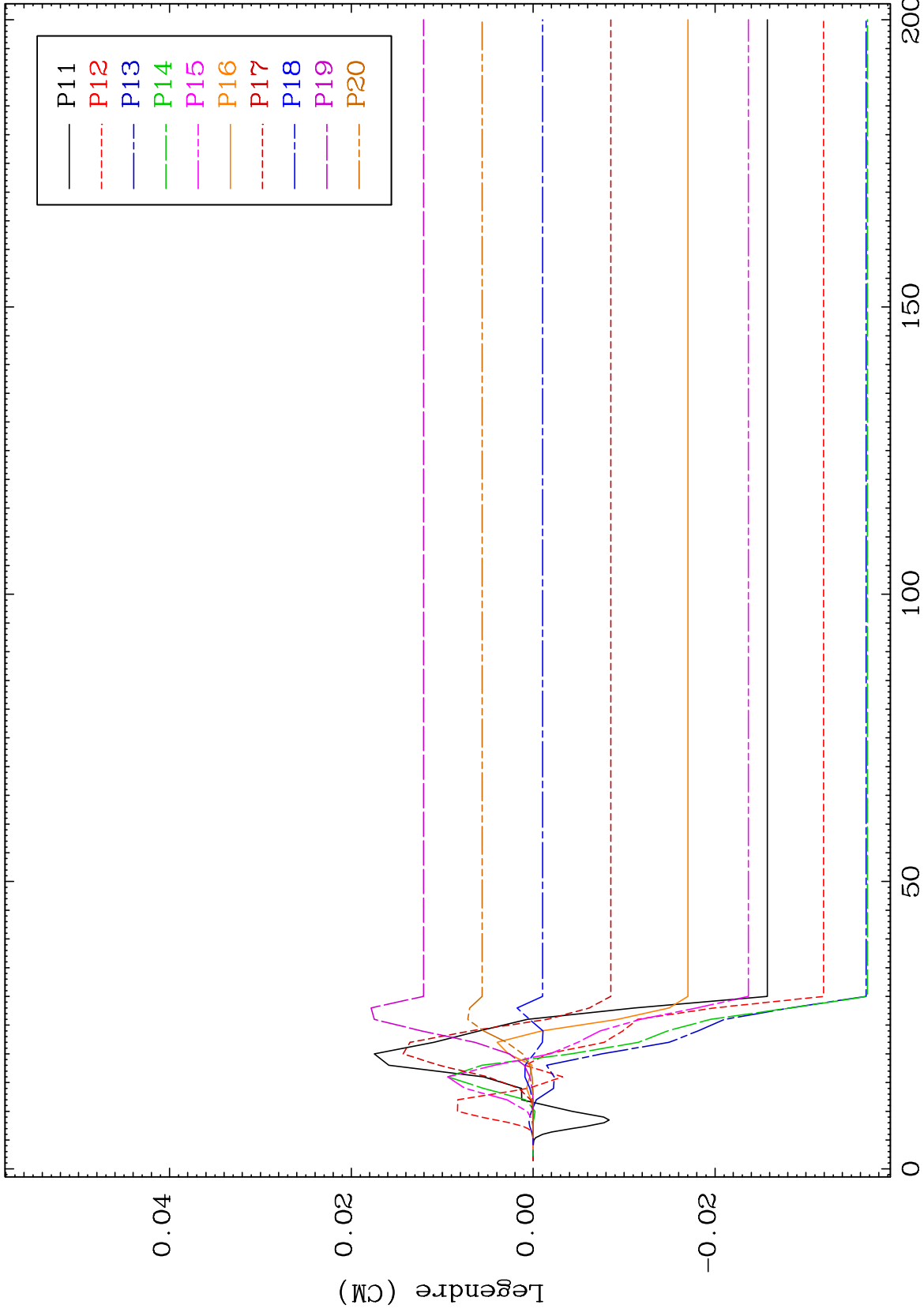
77-Ir-193



77-Ir-193

Incident Energy (MeV)

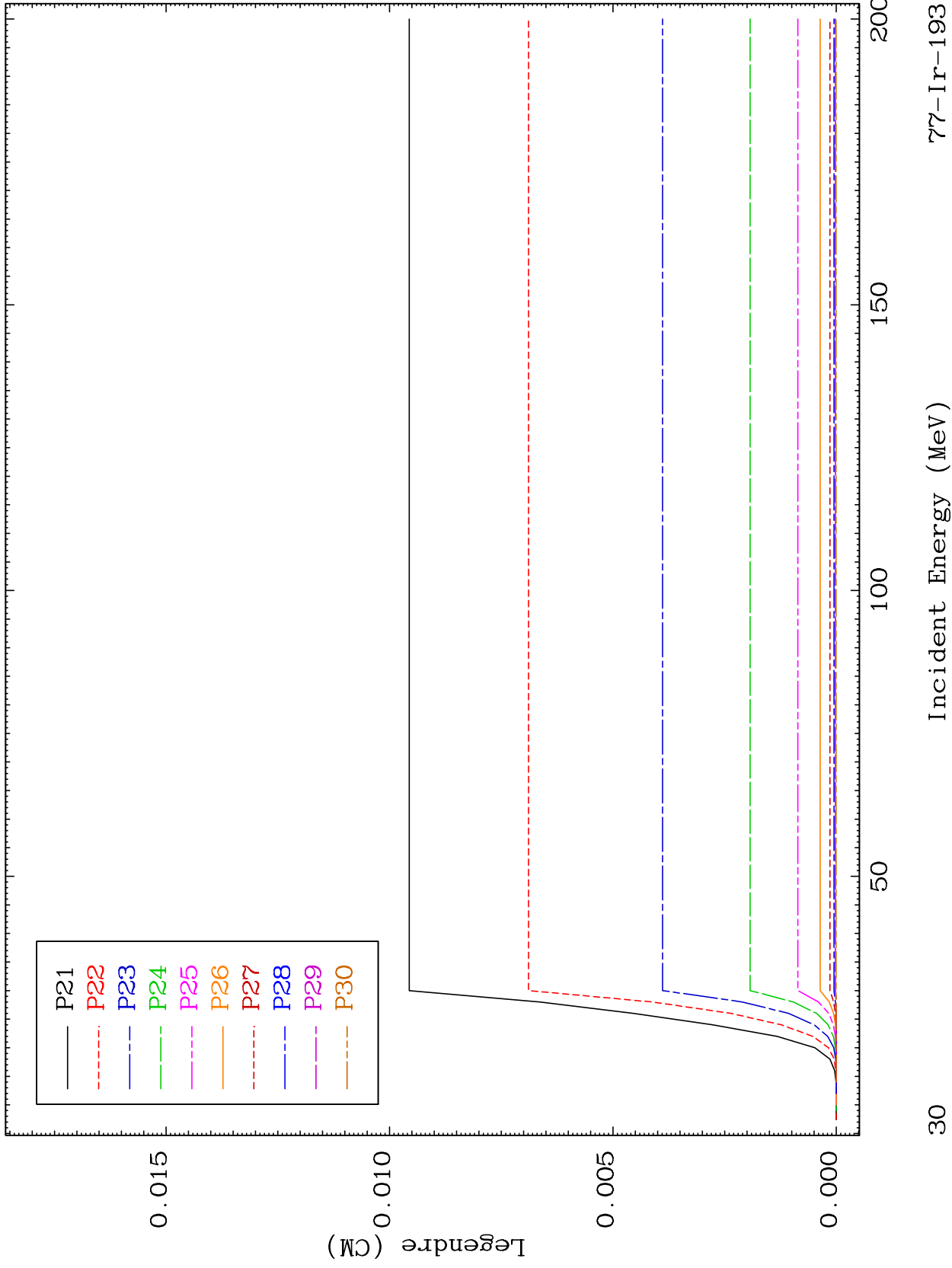
28



MAT 7731

138.9 keV (n,n') Level
Legendre Coefficients

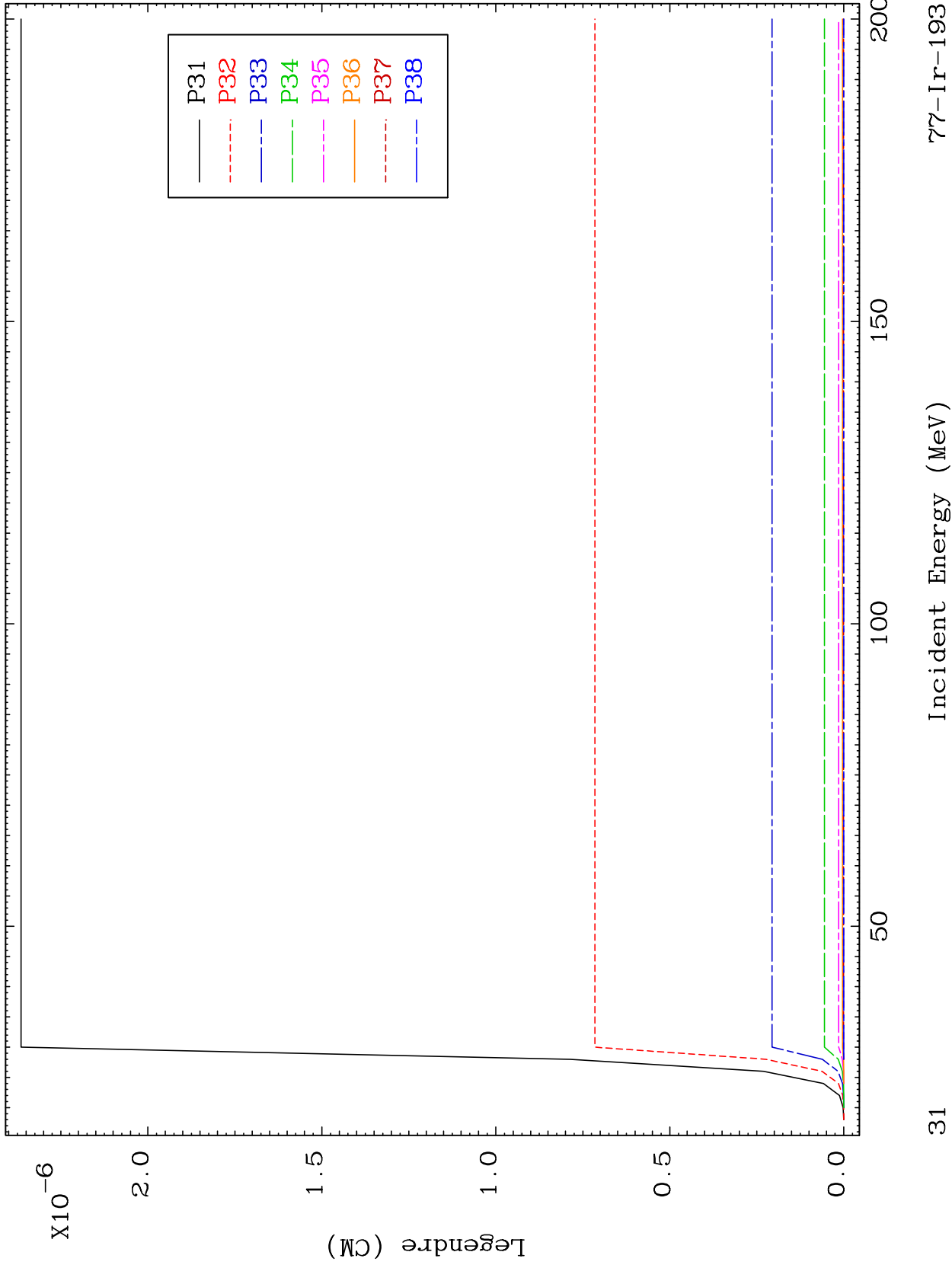
77-Ir-193



30

Incident Energy (MeV)

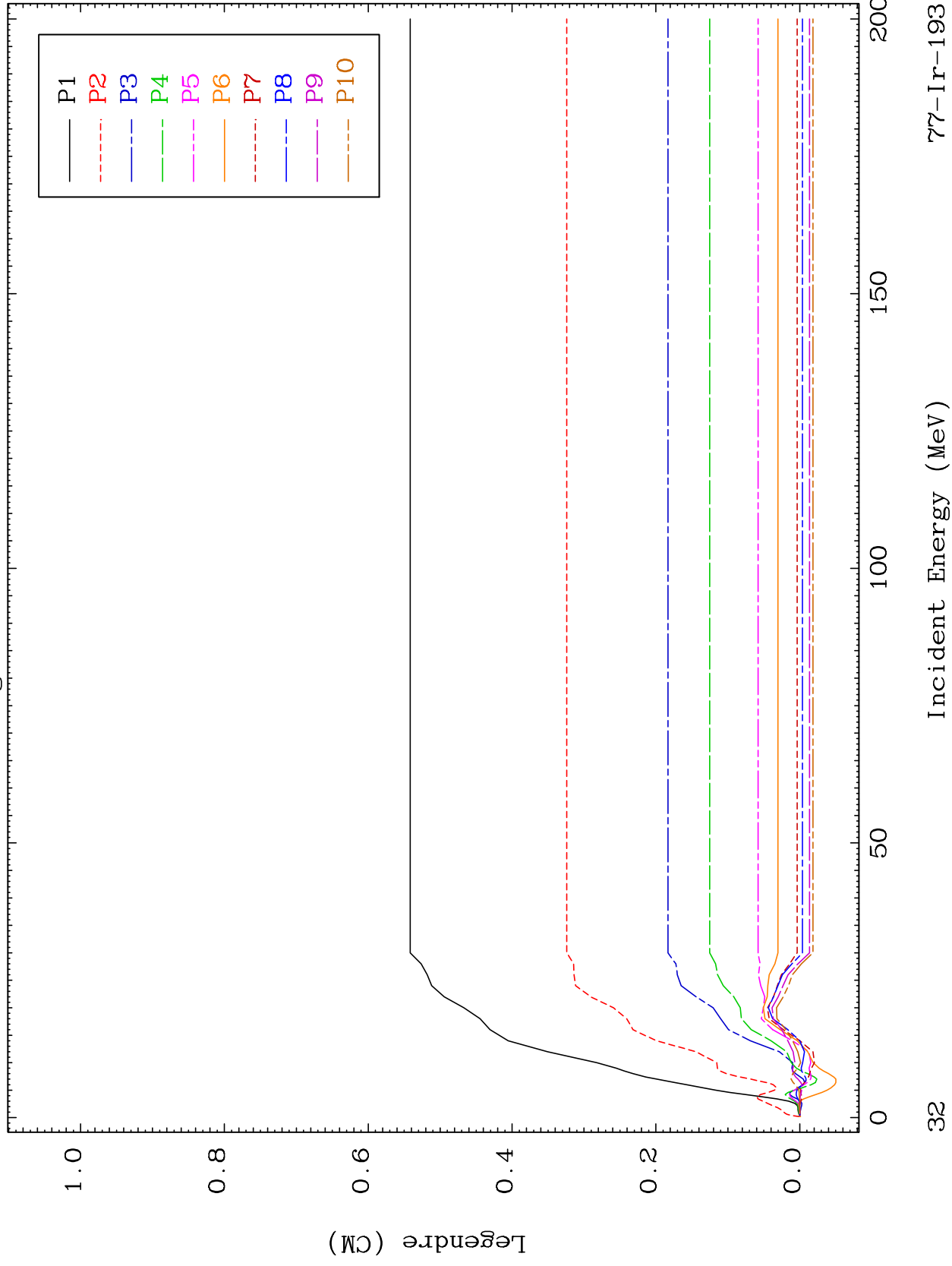
77-Ir-193



MAT 7731

180.1 keV (n,n') Level
Legendre Coefficients

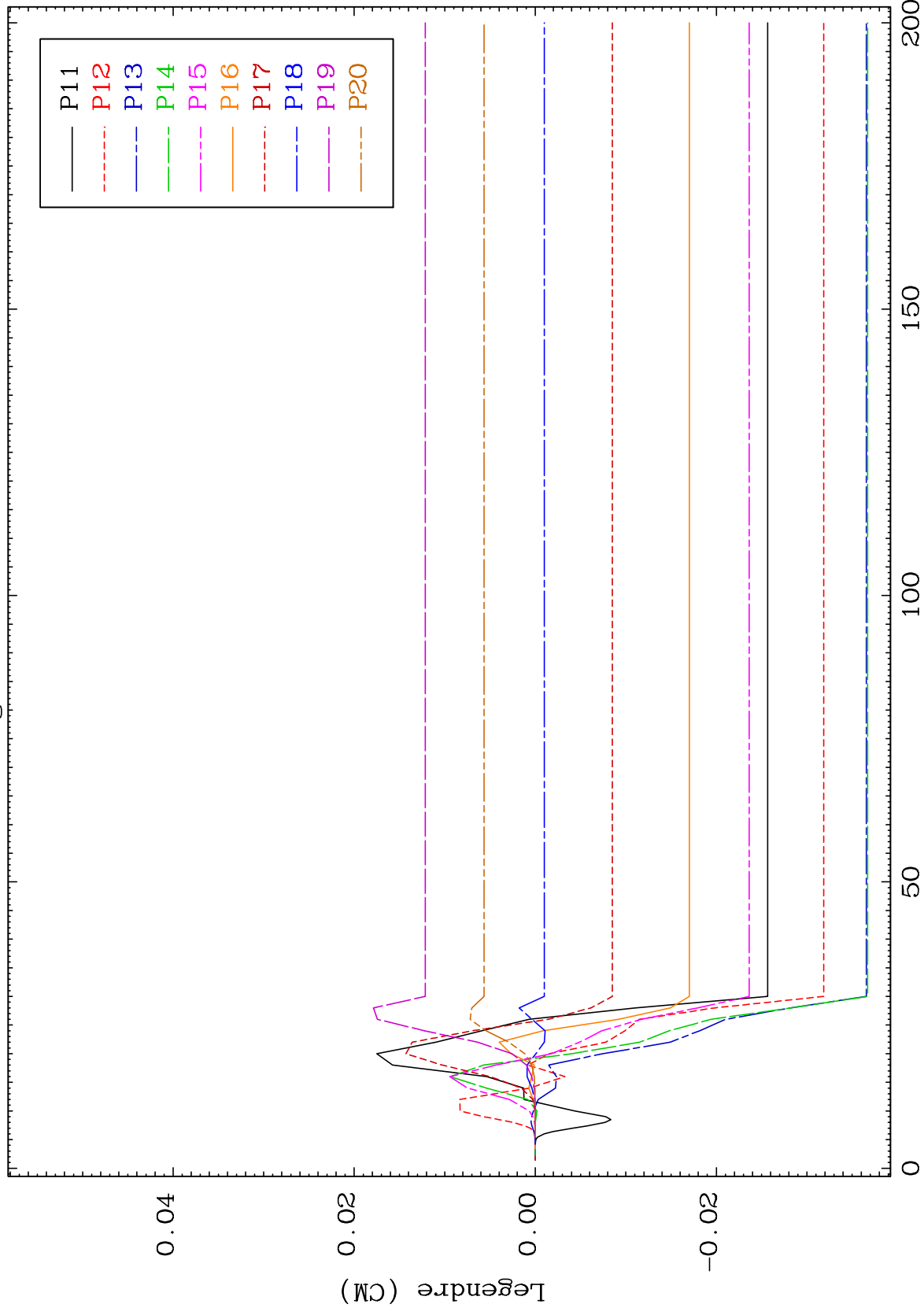
77-Ir-193

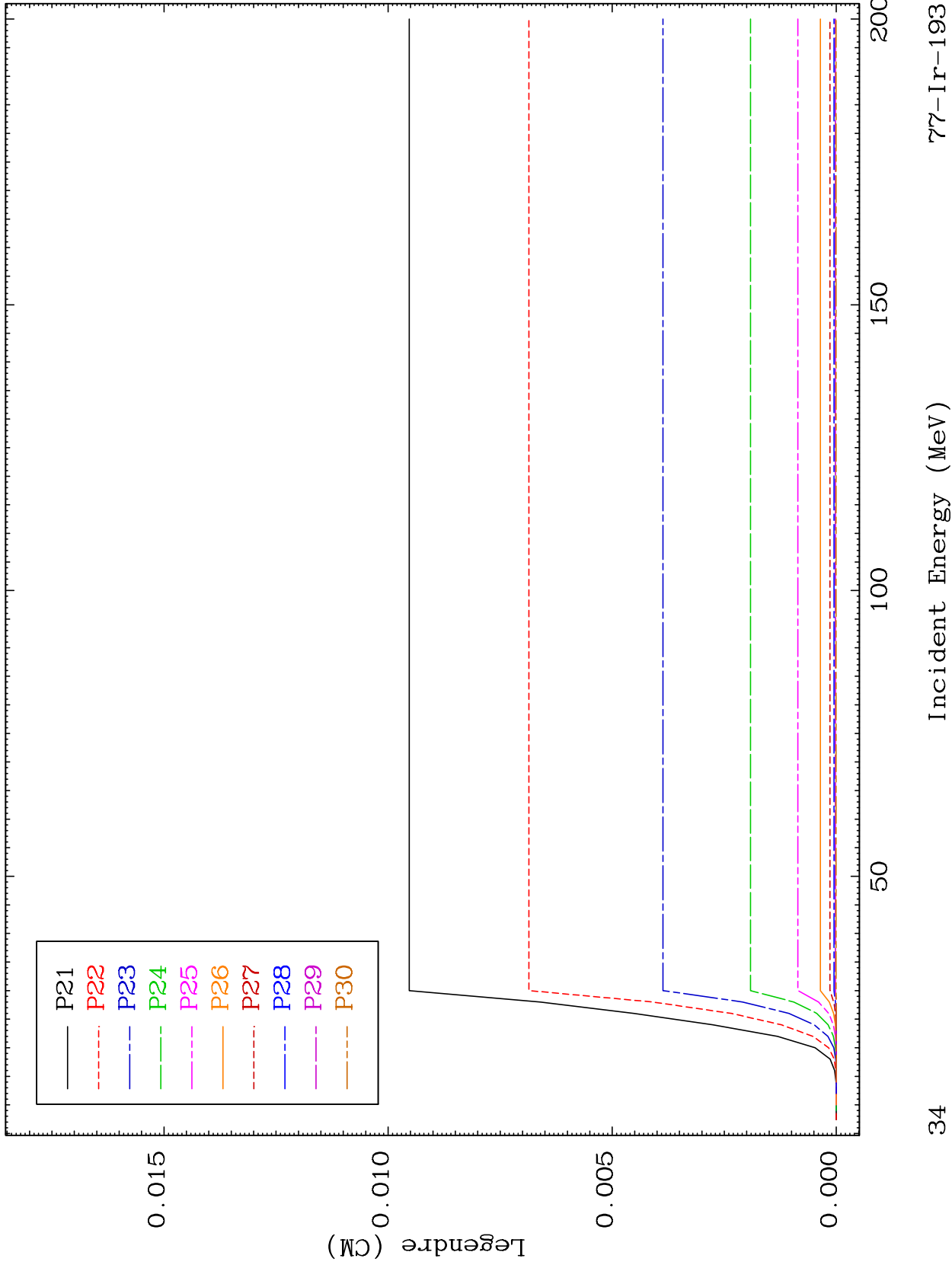


77-Ir-193

Incident Energy (MeV)

32

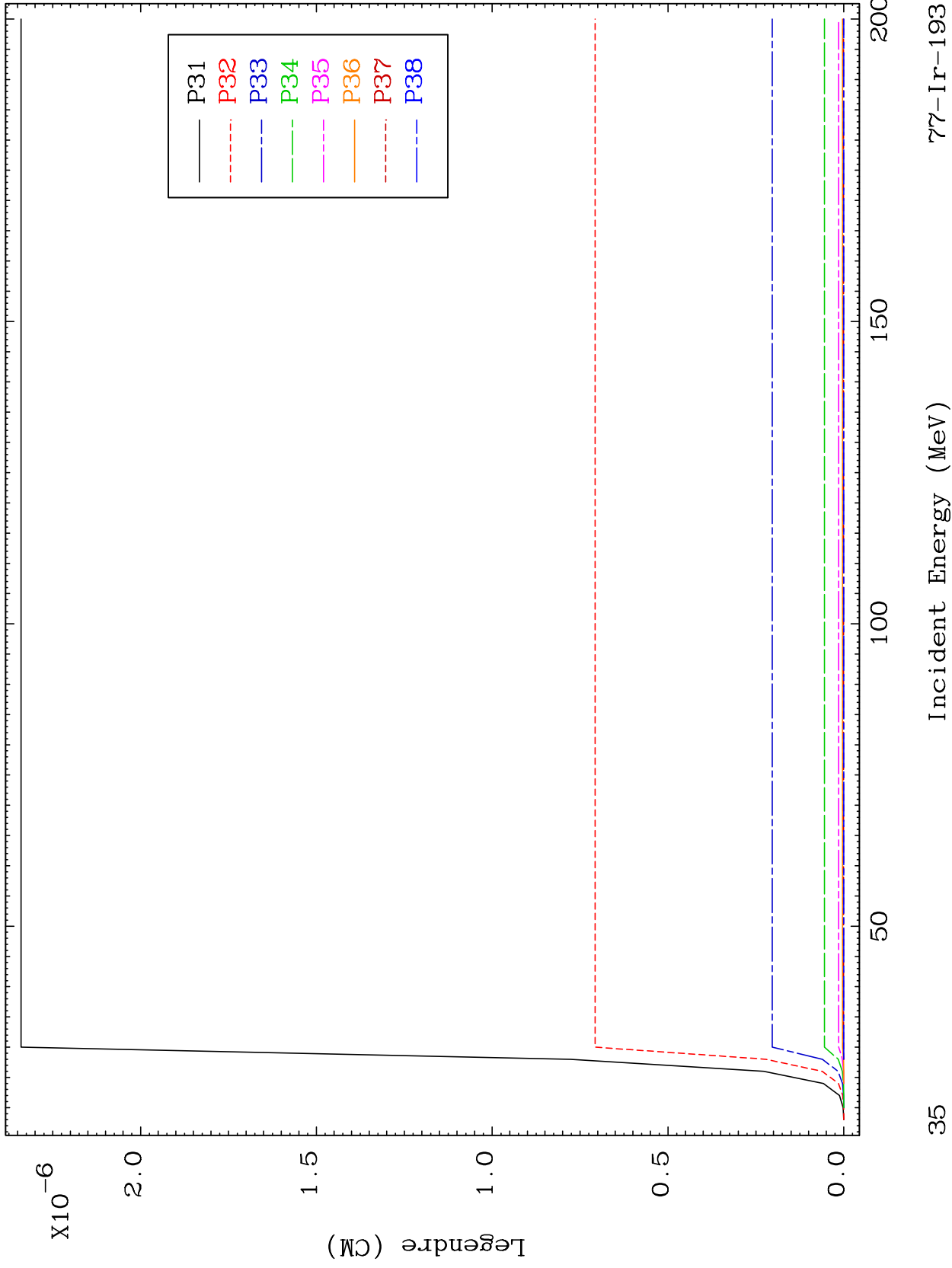




MAT 7731

180.1 keV (n,n') Level
Legendre Coefficients

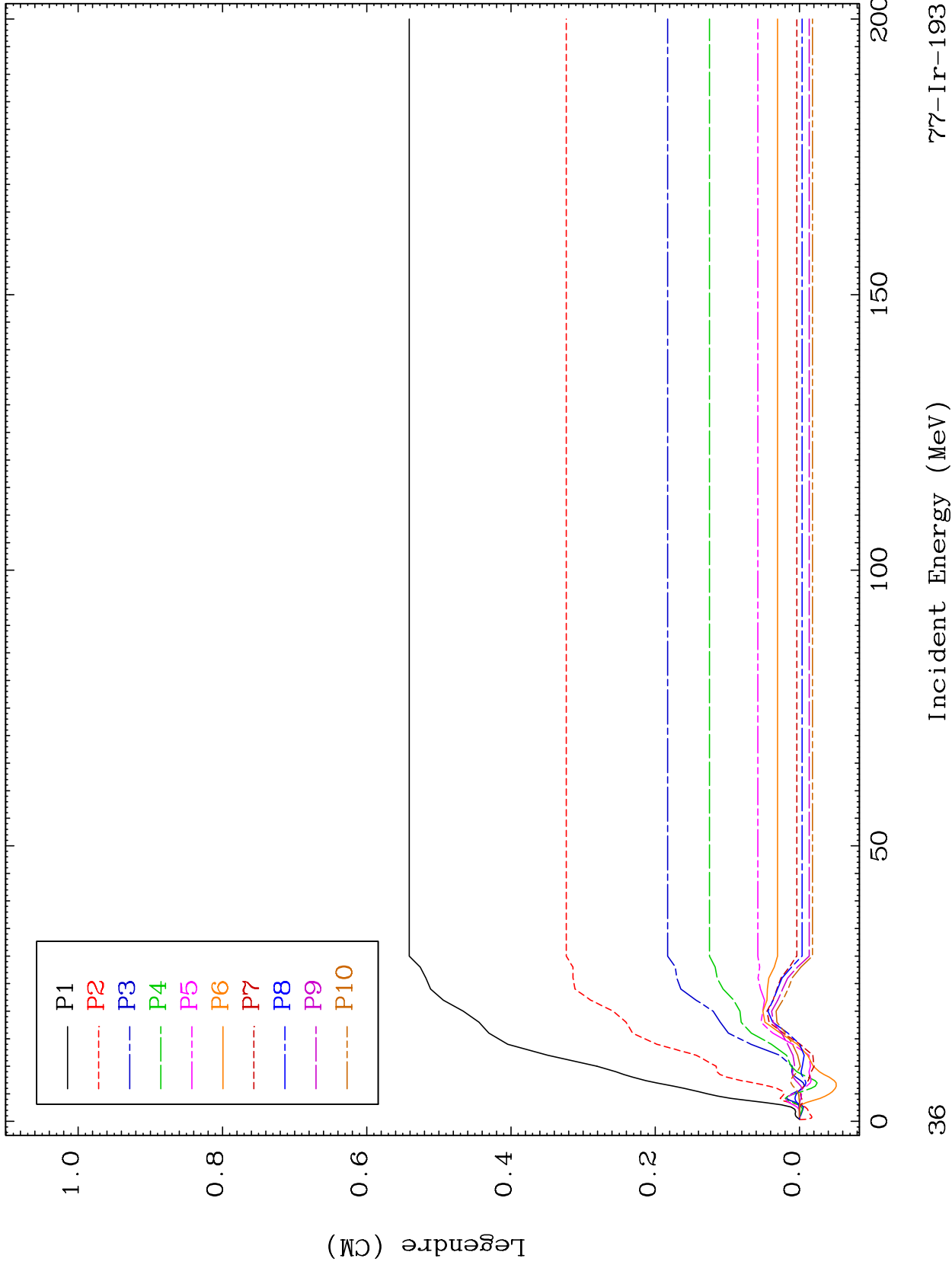
77-Ir-193

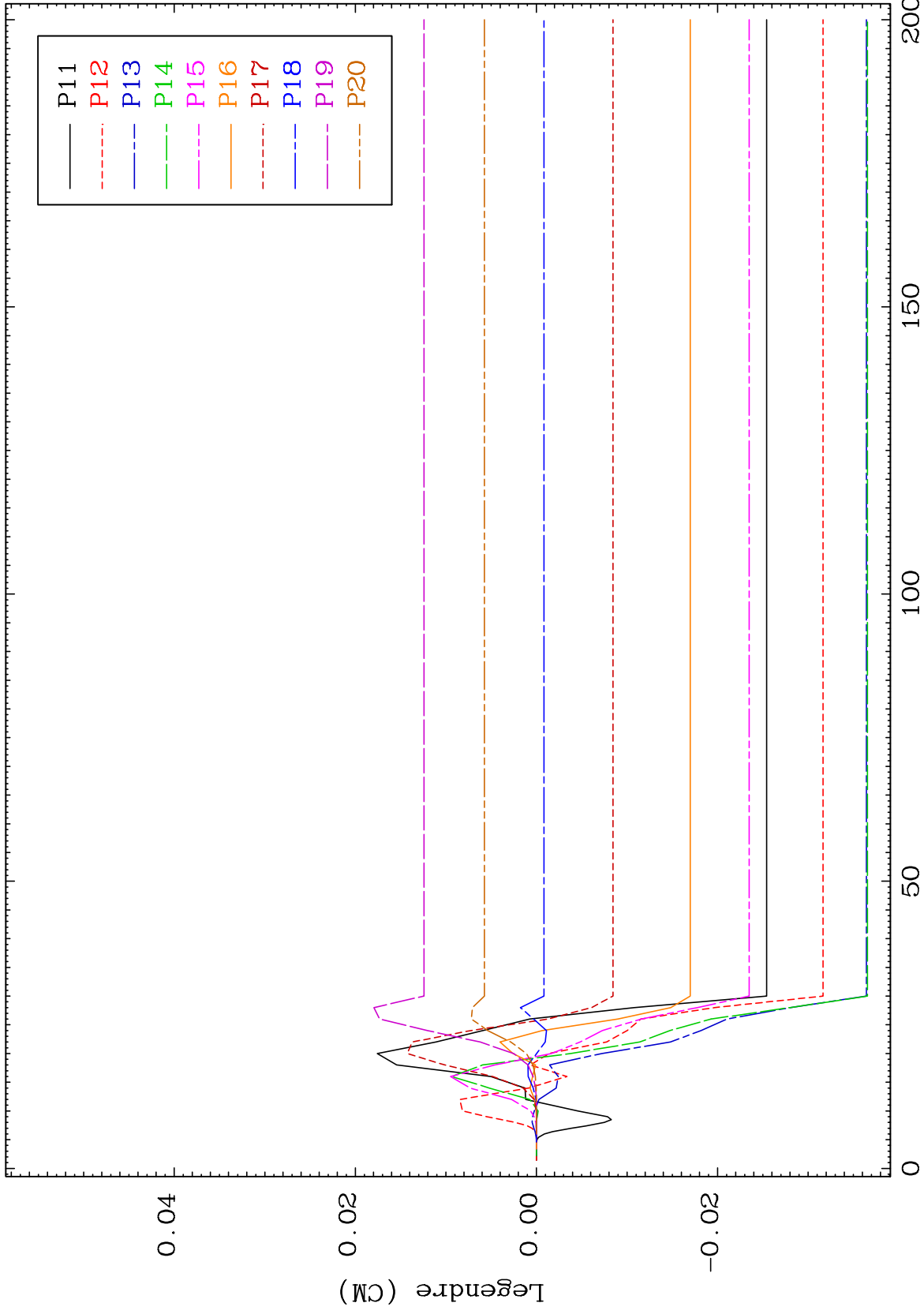


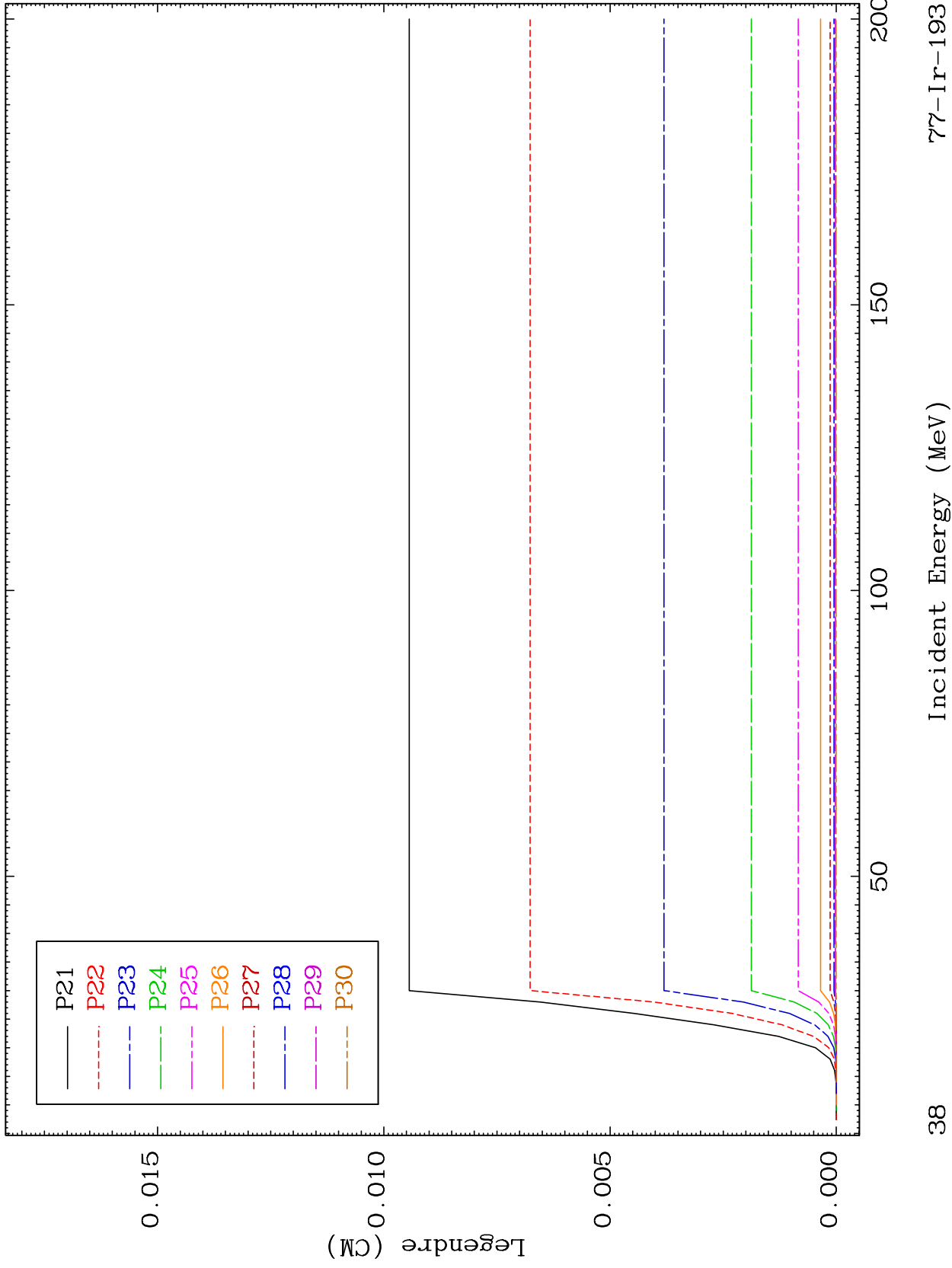
77-Ir-193

Incident Energy (MeV)

35



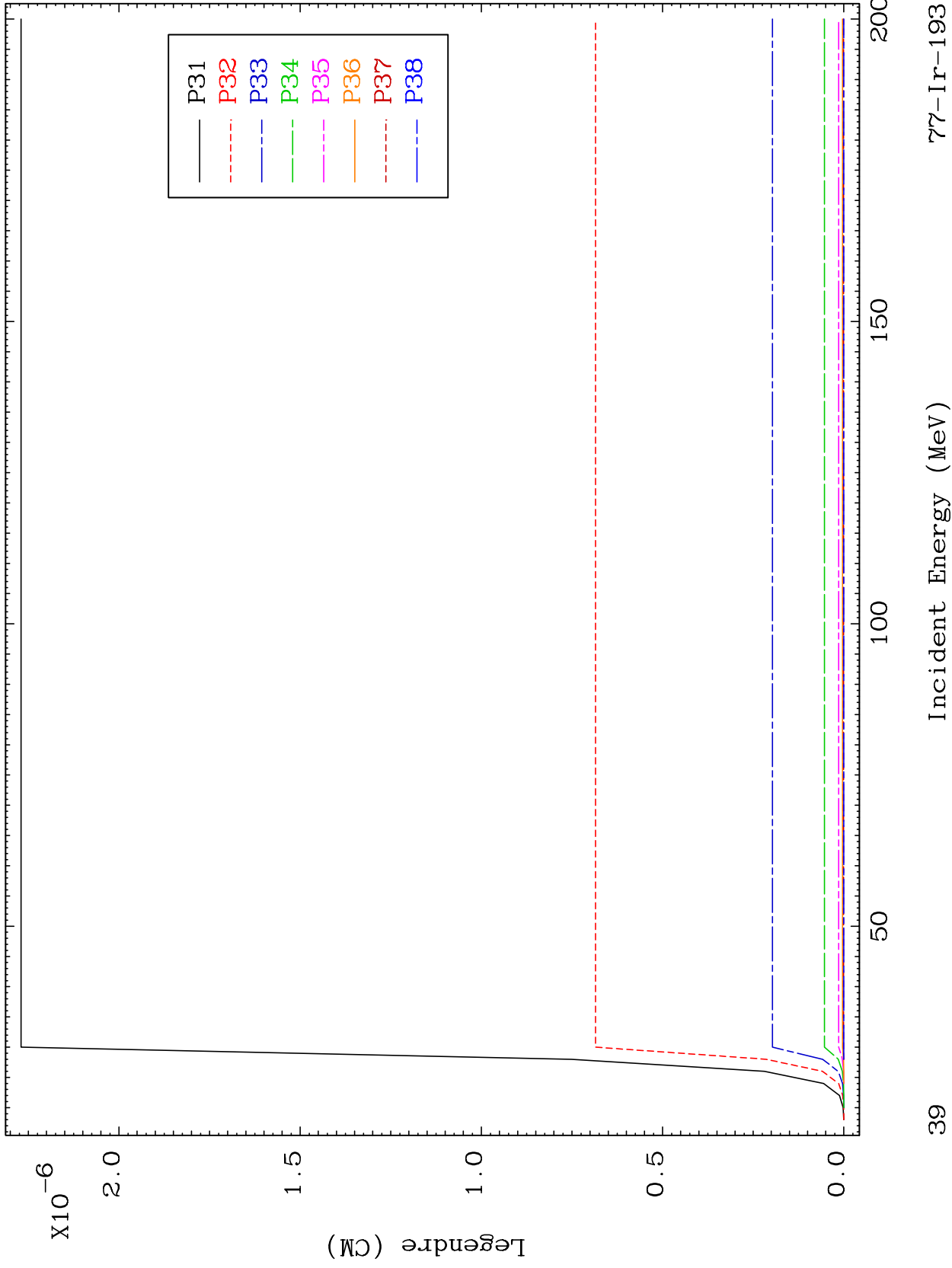




MAT 7731

299.4 keV (n,n') Level
Legendre Coefficients

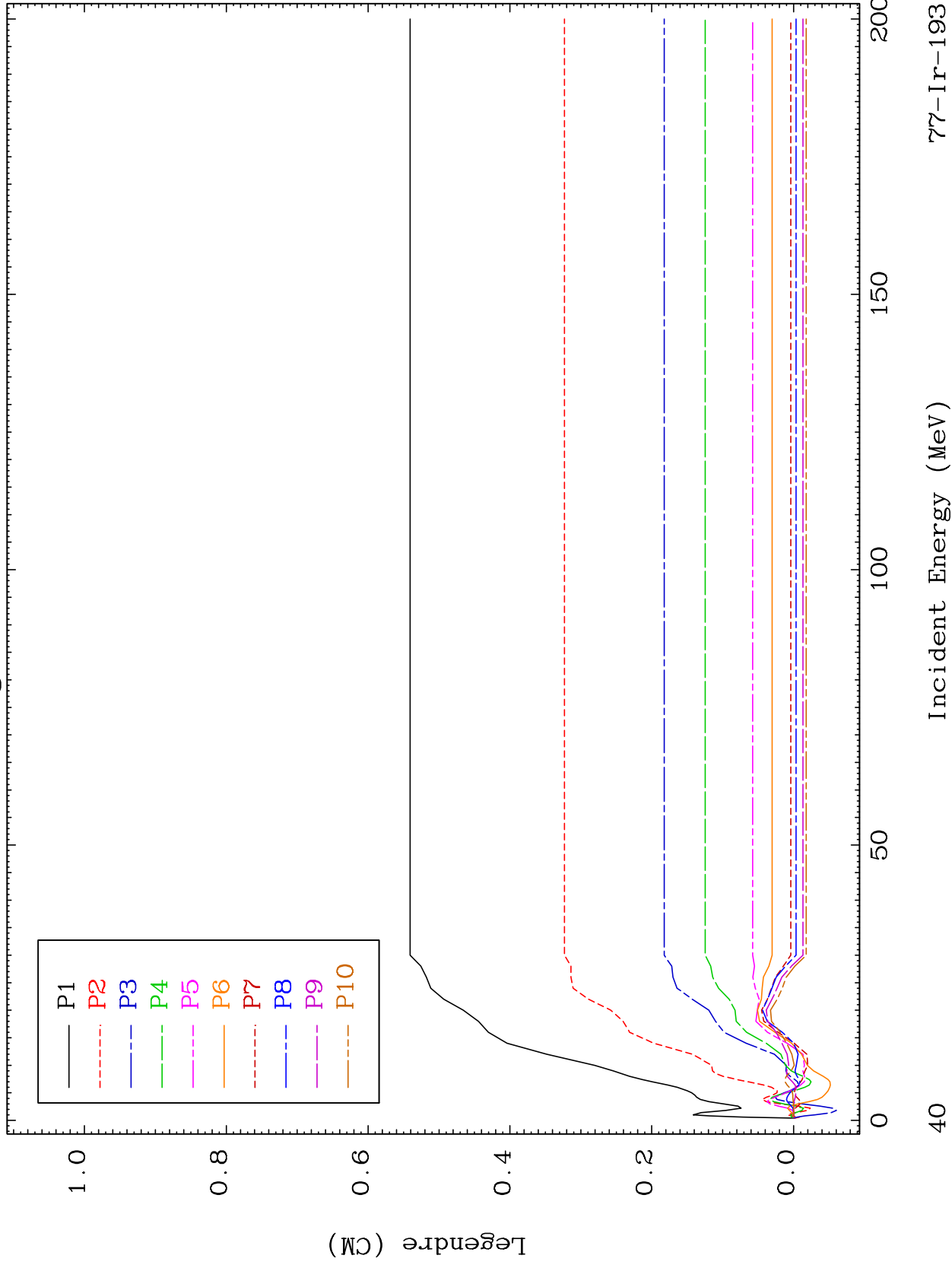
77-Ir-193



MAT 7731

357.8 keV (n, n') Level
Legendre Coefficients

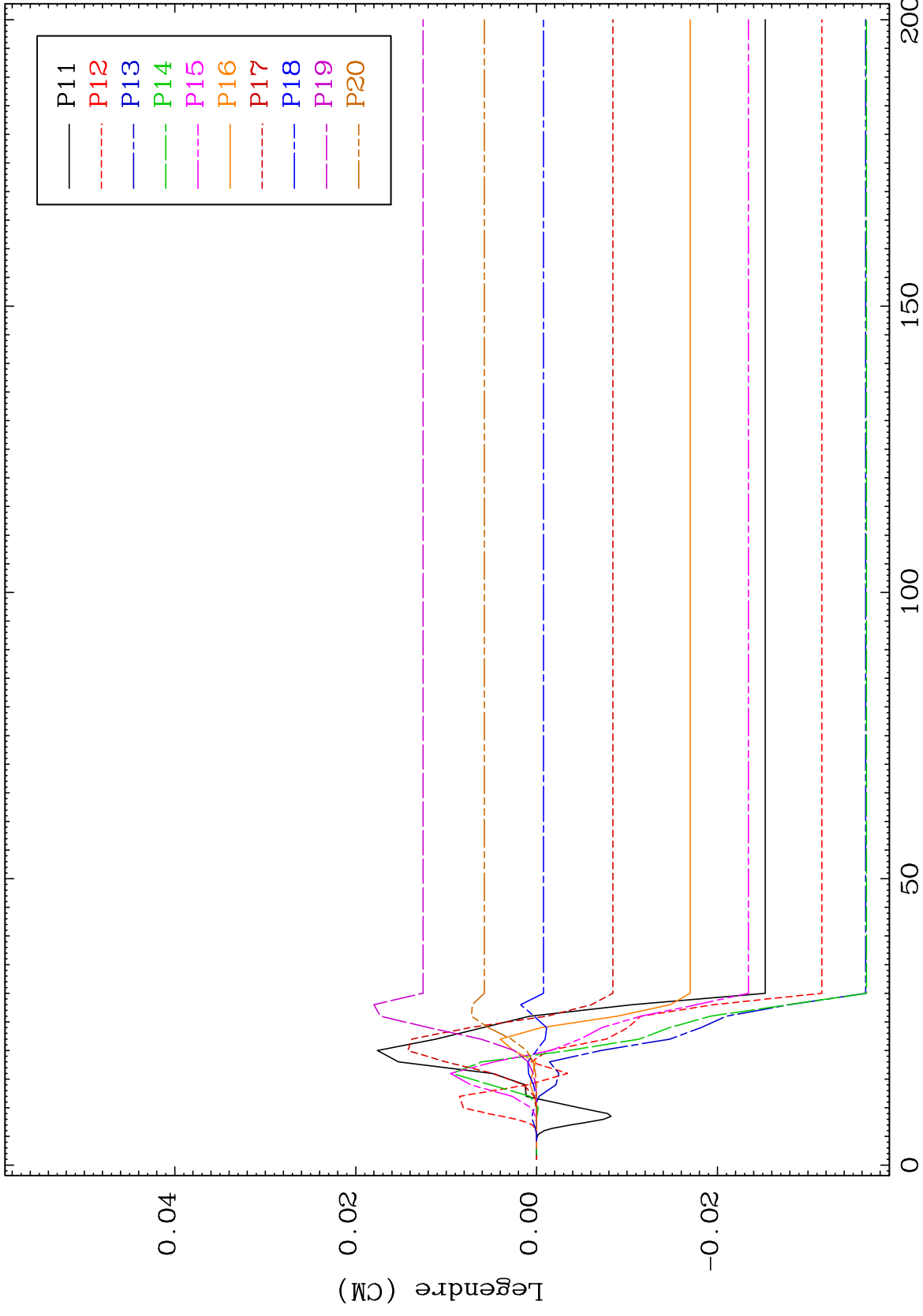
77-Ir-193

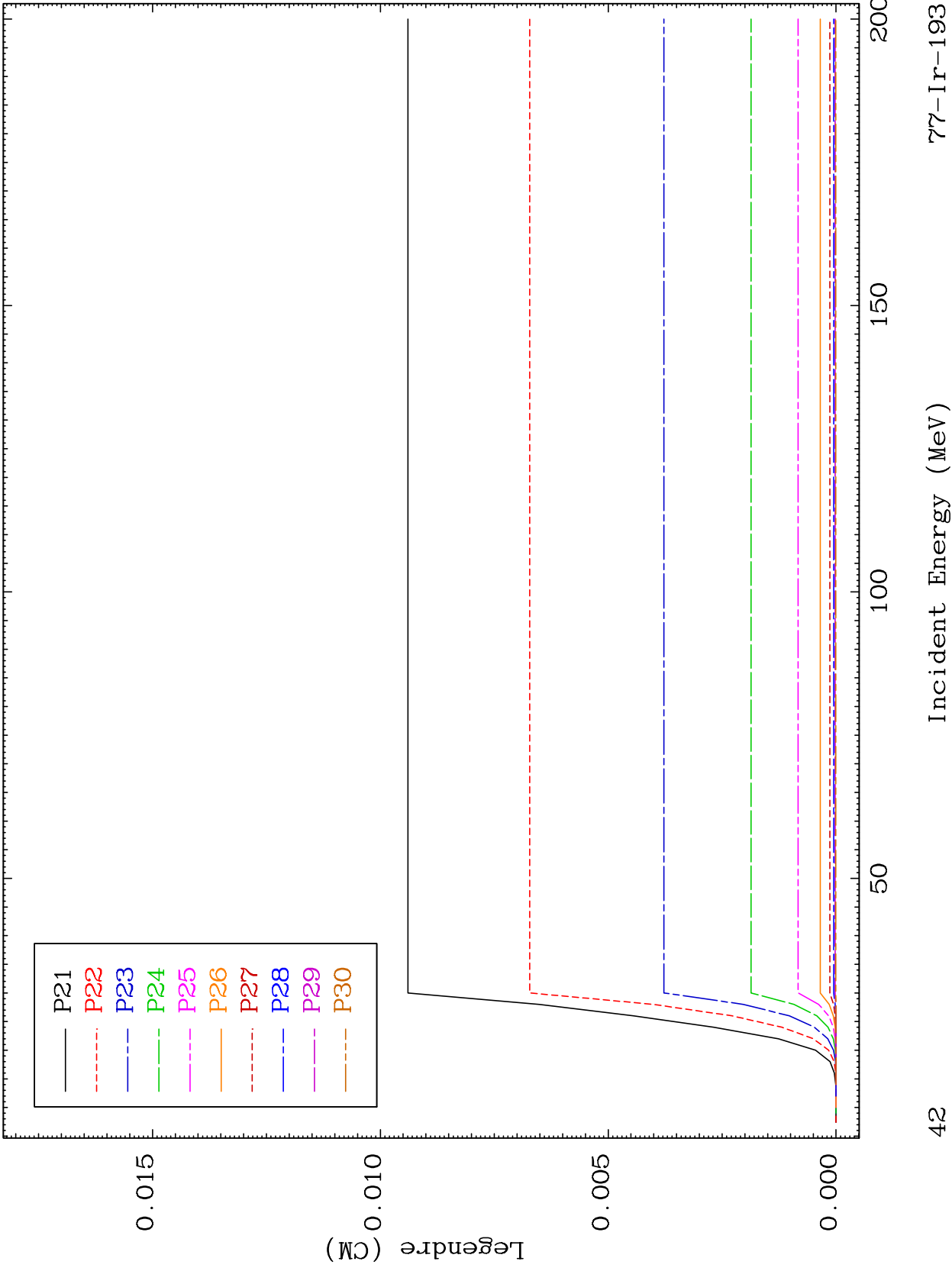


77-Ir-193

Incident Energy (MeV)

40

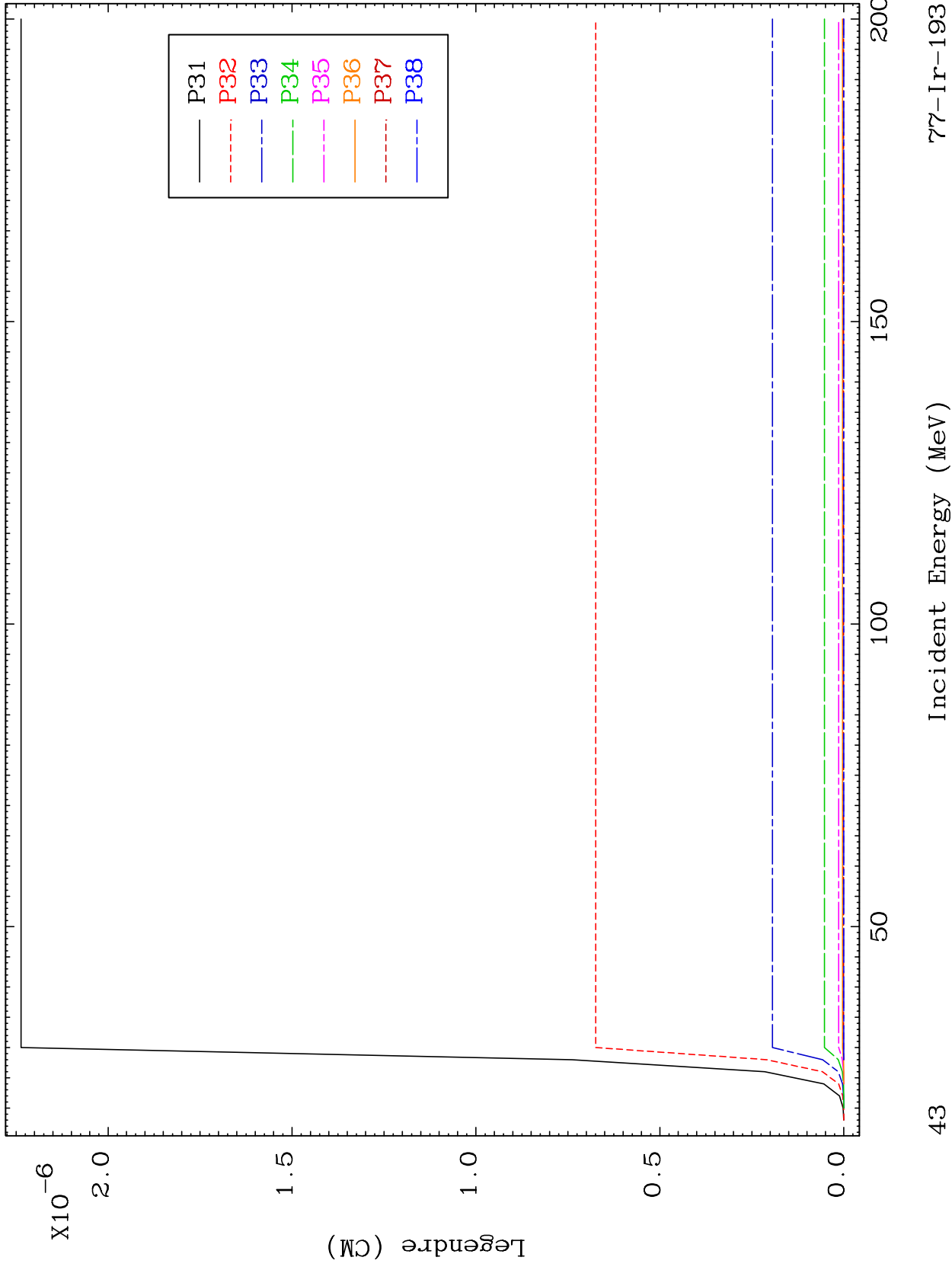




MAT 7731

357.8 keV (n,n') Level
Legendre Coefficients

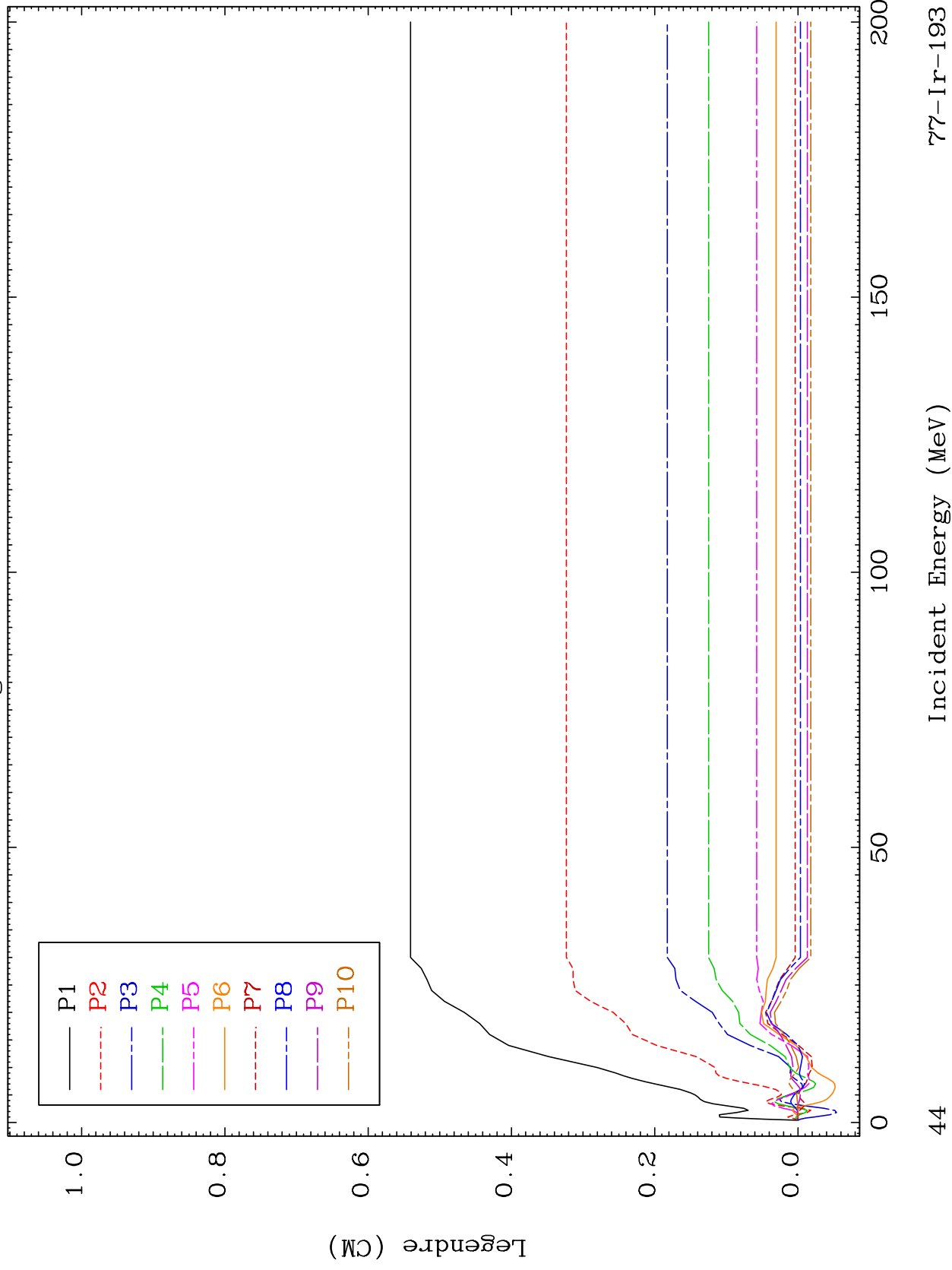
77-Ir-193



43

Incident Energy (MeV)

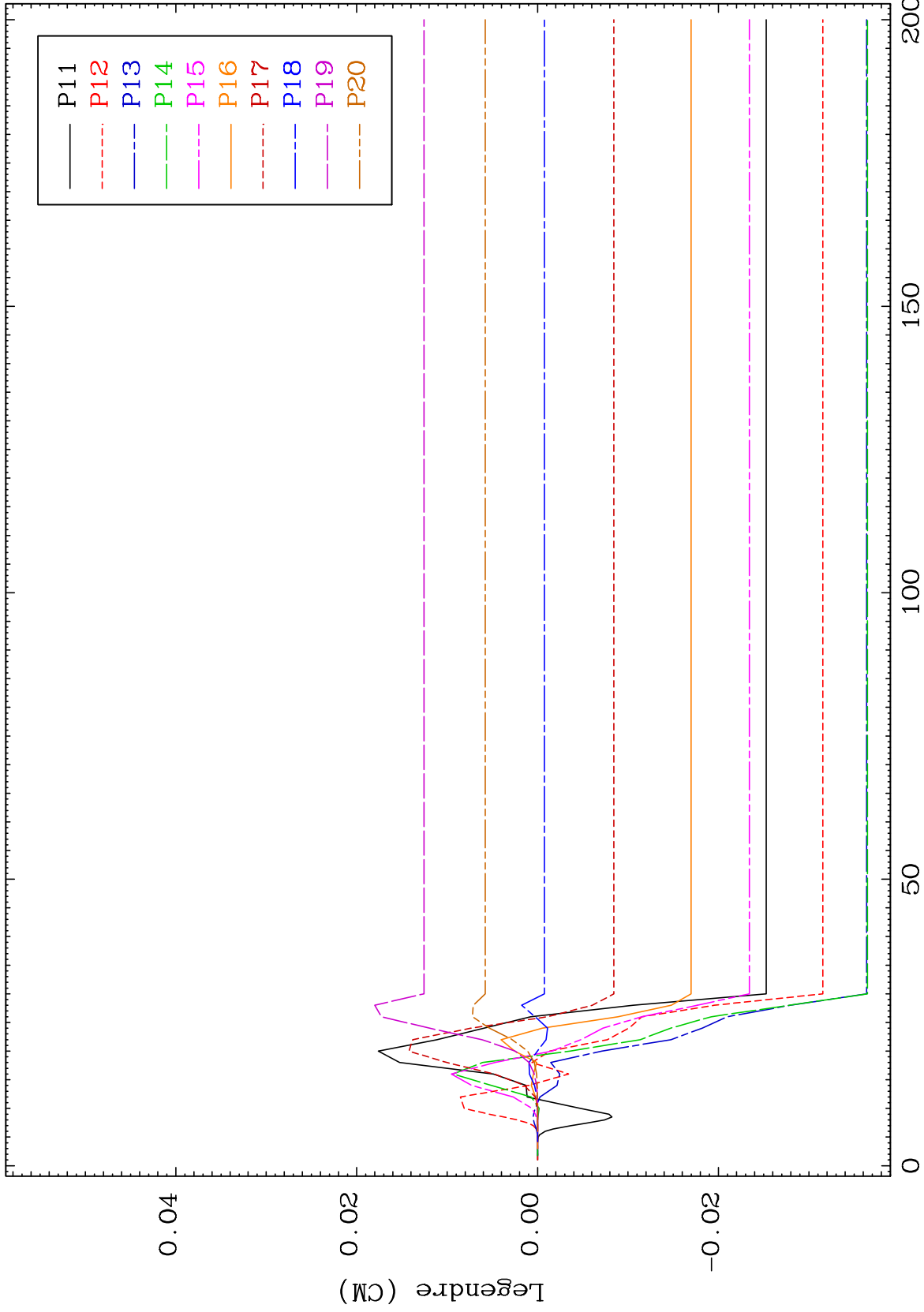
77-Ir-193



MAT 7731

361.9 keV (n,n') Level
Legendre Coefficients

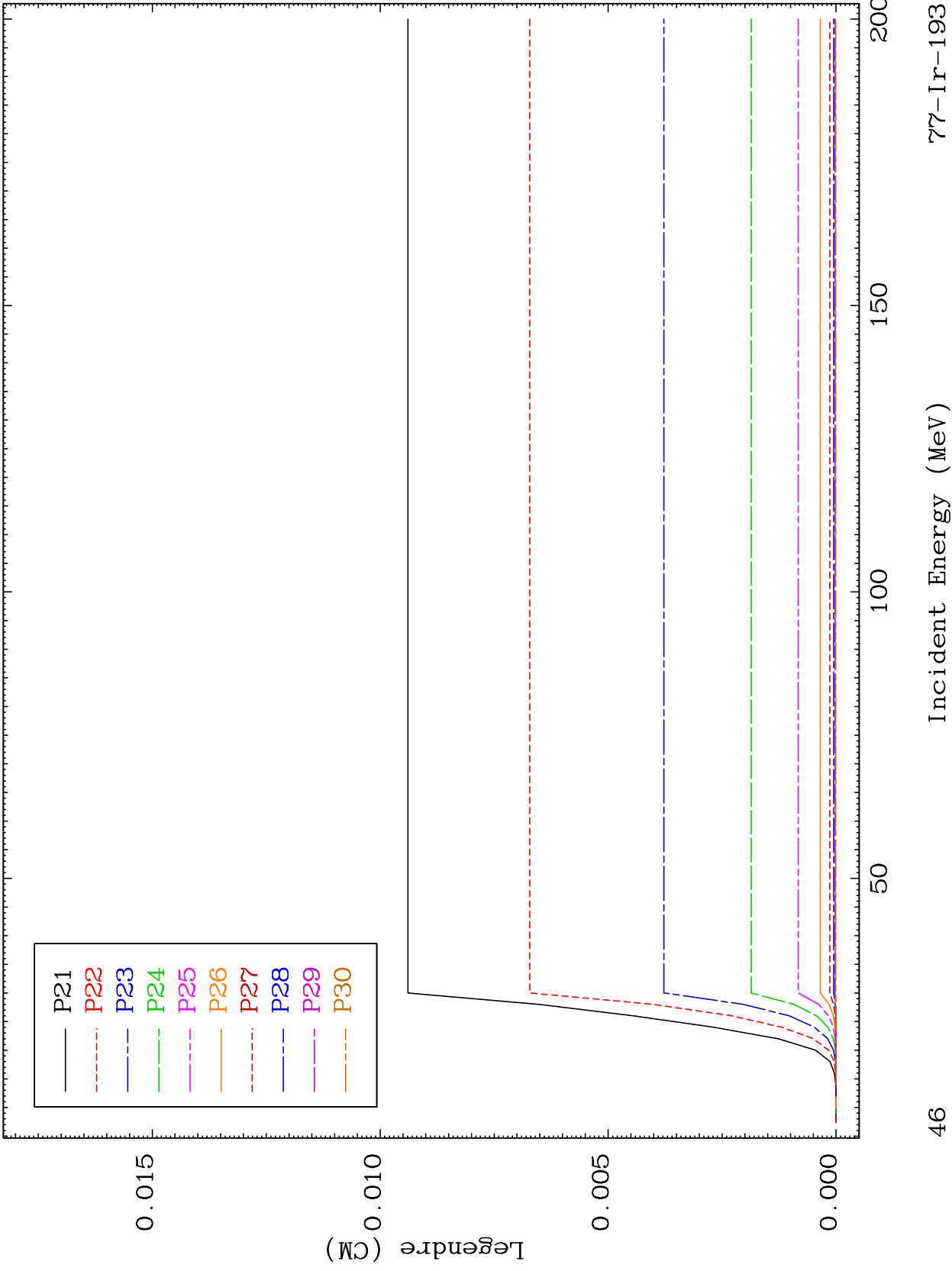
77-Ir-193



45

Incident Energy (MeV)

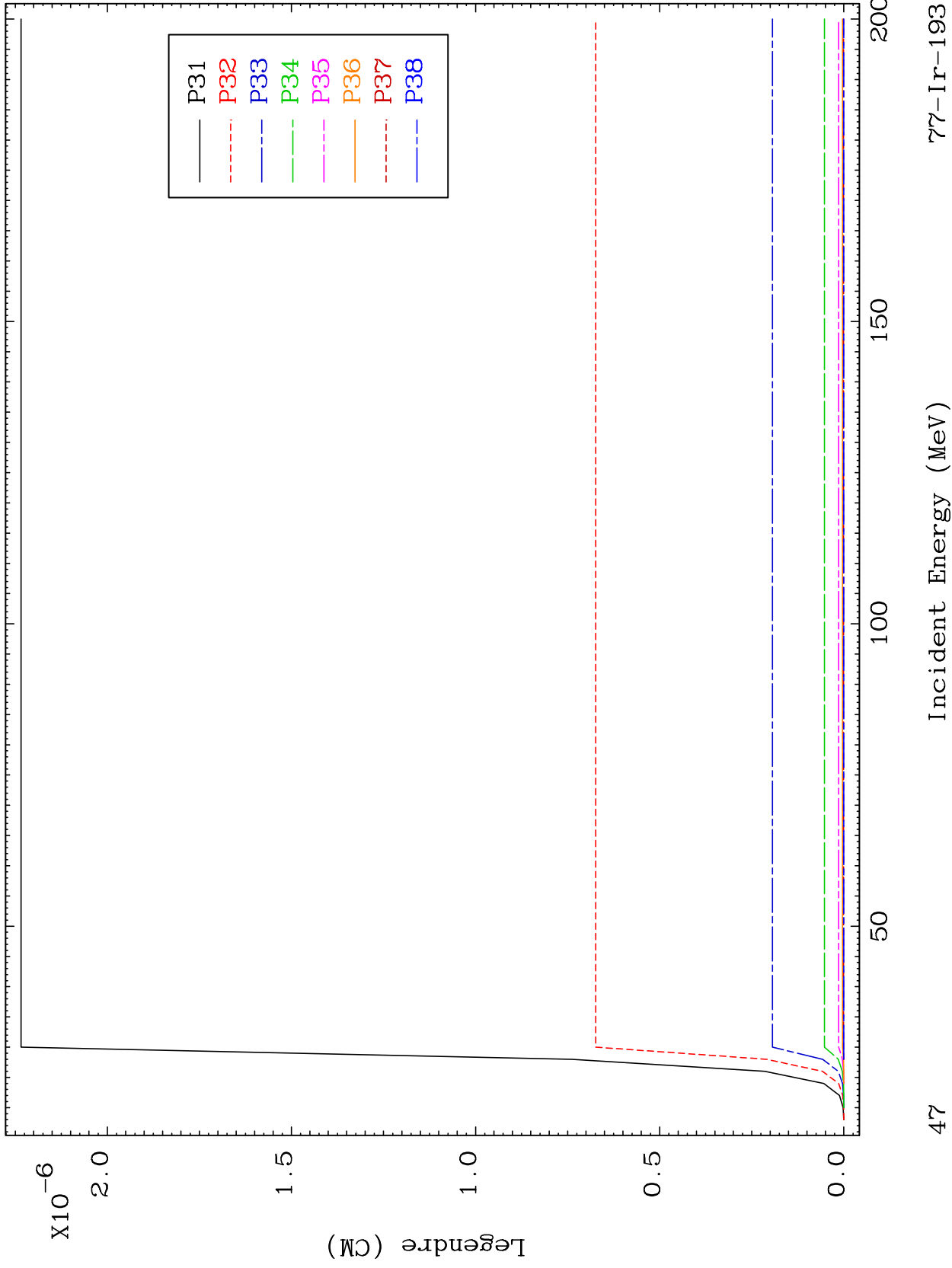
77-Ir-193



MAT 7731

361.9 keV (n,n') Level
Legendre Coefficients

77-Ir-193



47

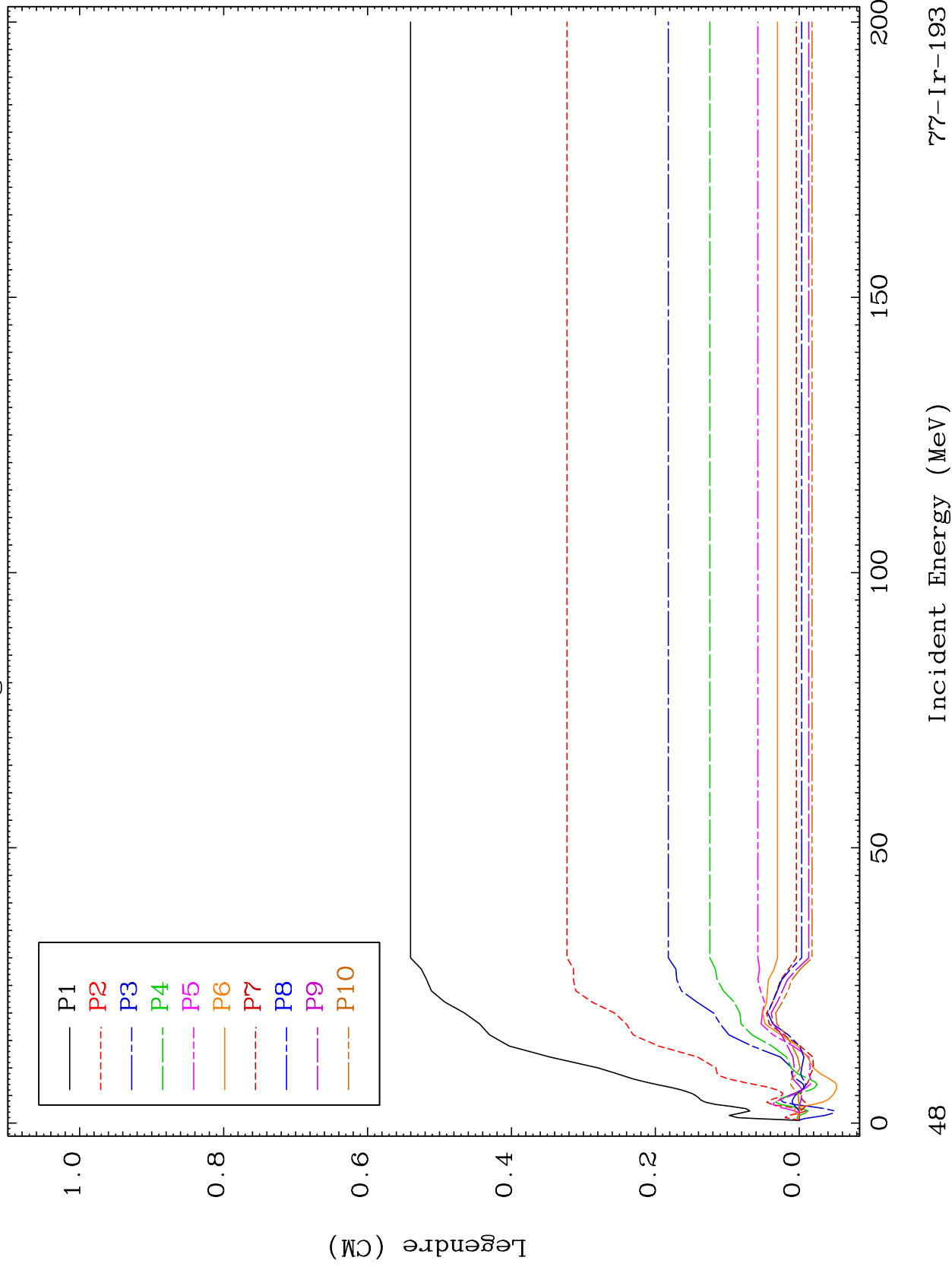
Incident Energy (MeV)

77-Ir-193

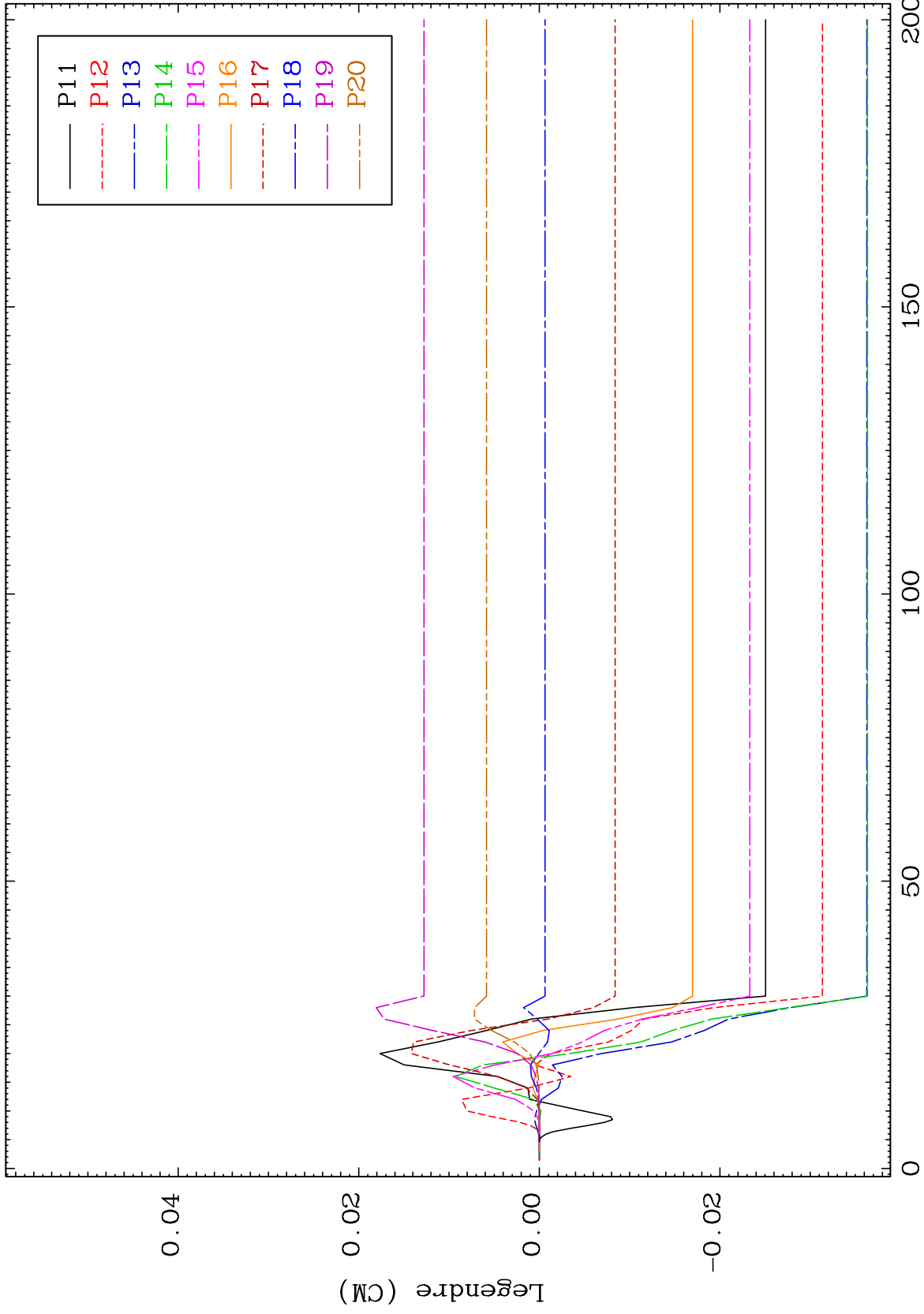
MAT 7731

460.5 keV (n, n') Level
Legendre Coefficients

77-Ir-193



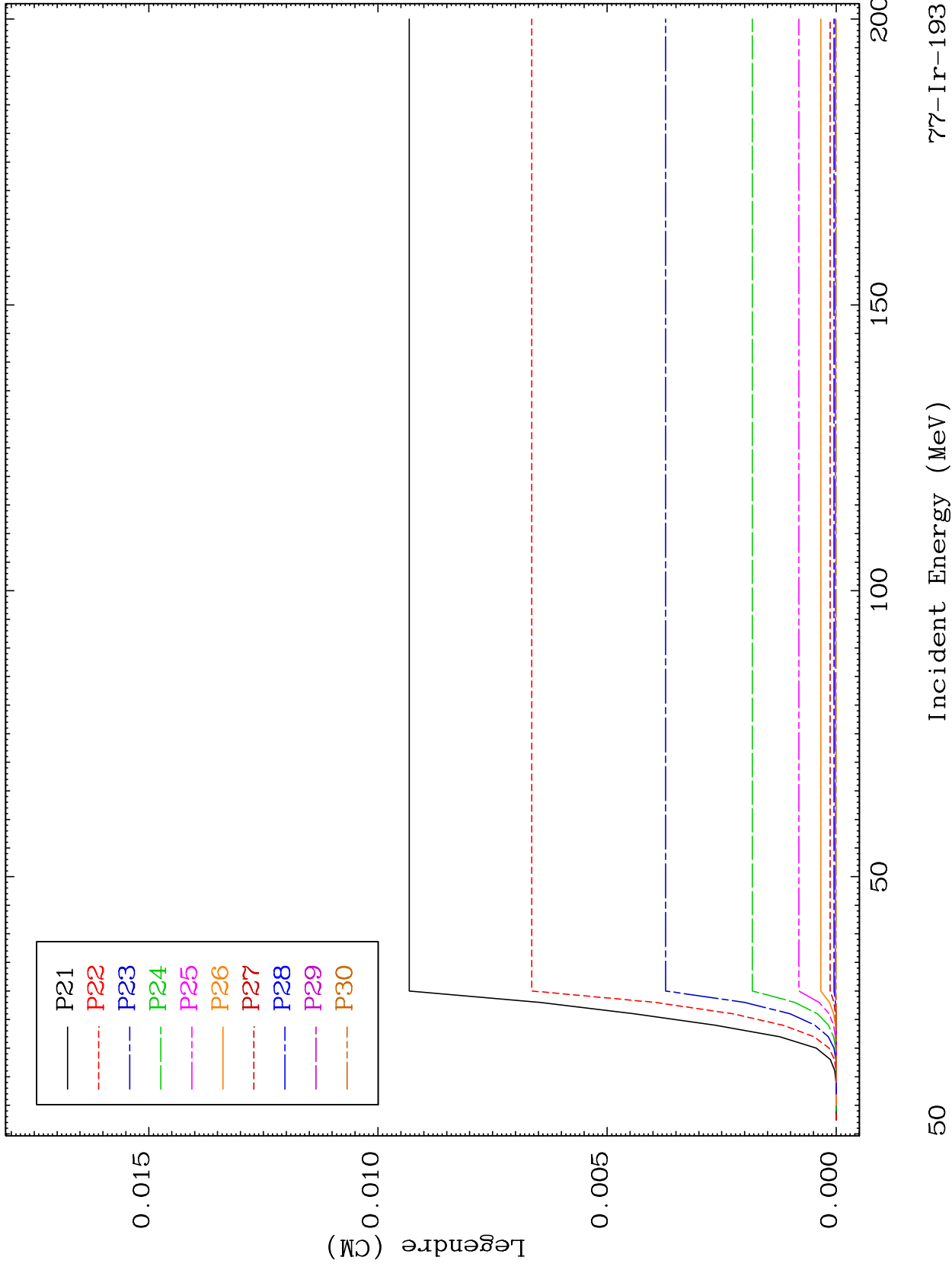
48



MAT 7731

460.5 keV (n,n') Level
Legendre Coefficients

77-Ir-193



77-Ir-193

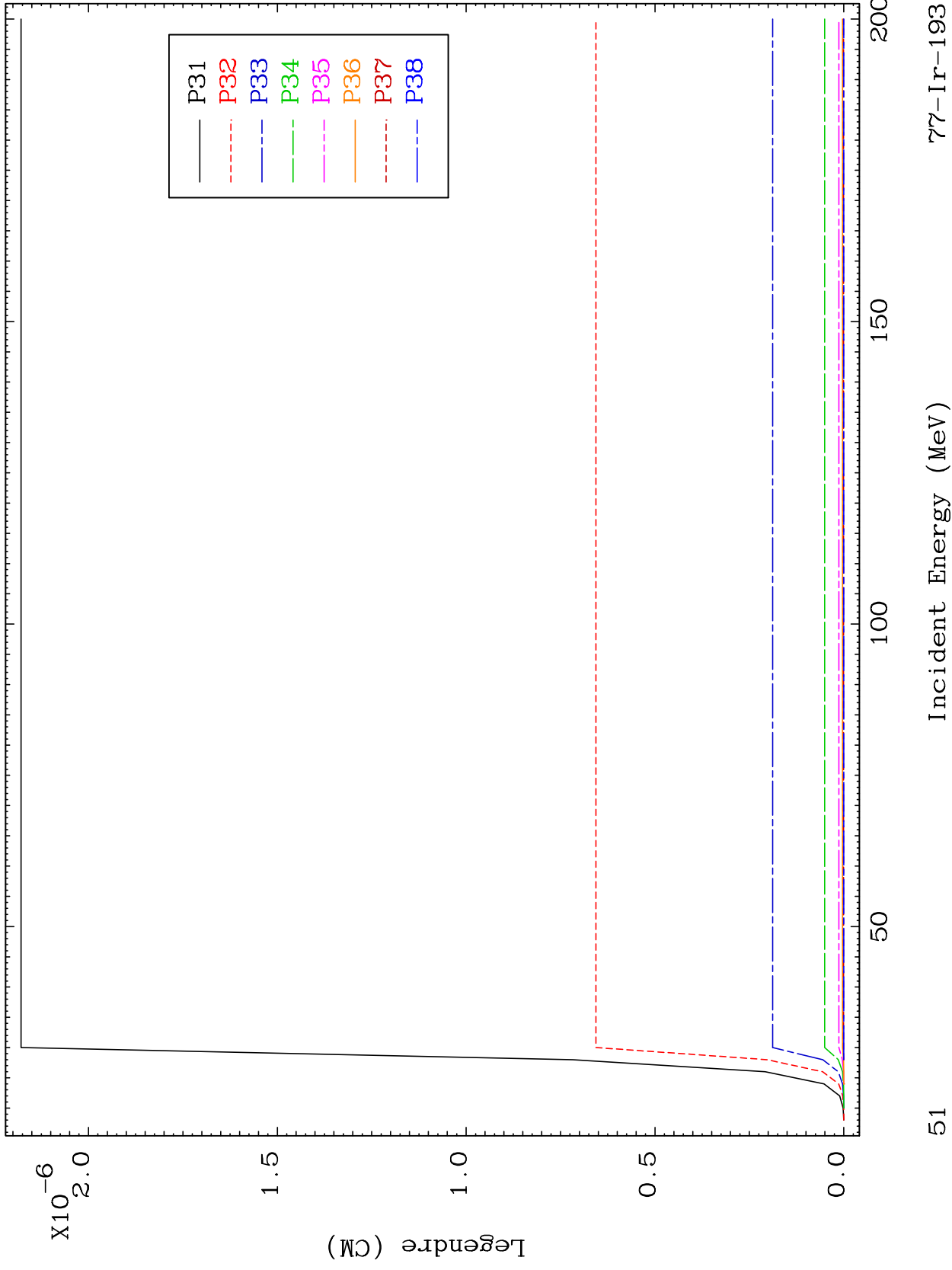
Incident Energy (MeV)

50

MAT 7731

460.5 keV (n,n') Level
Legendre Coefficients

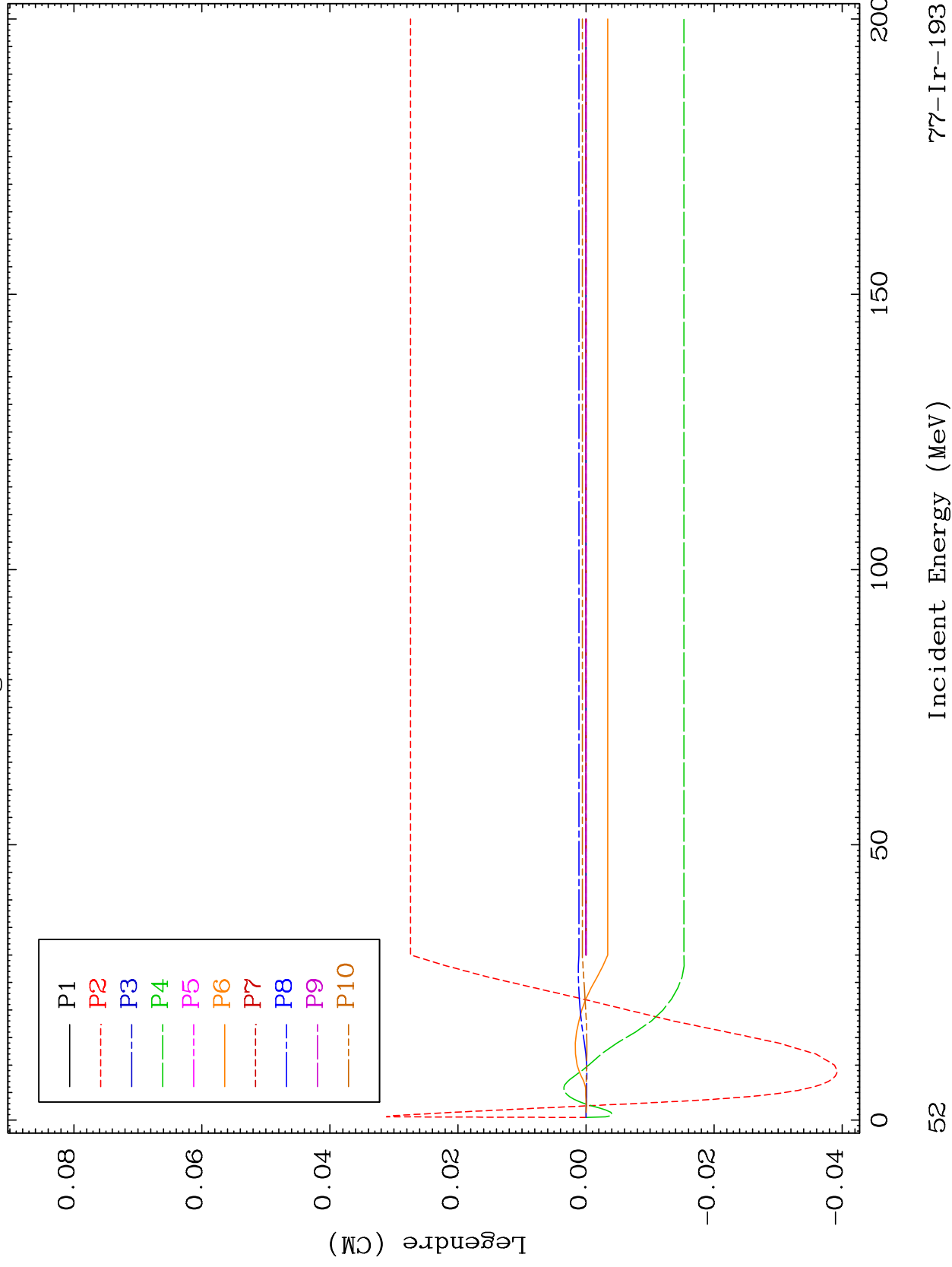
77-Ir-193

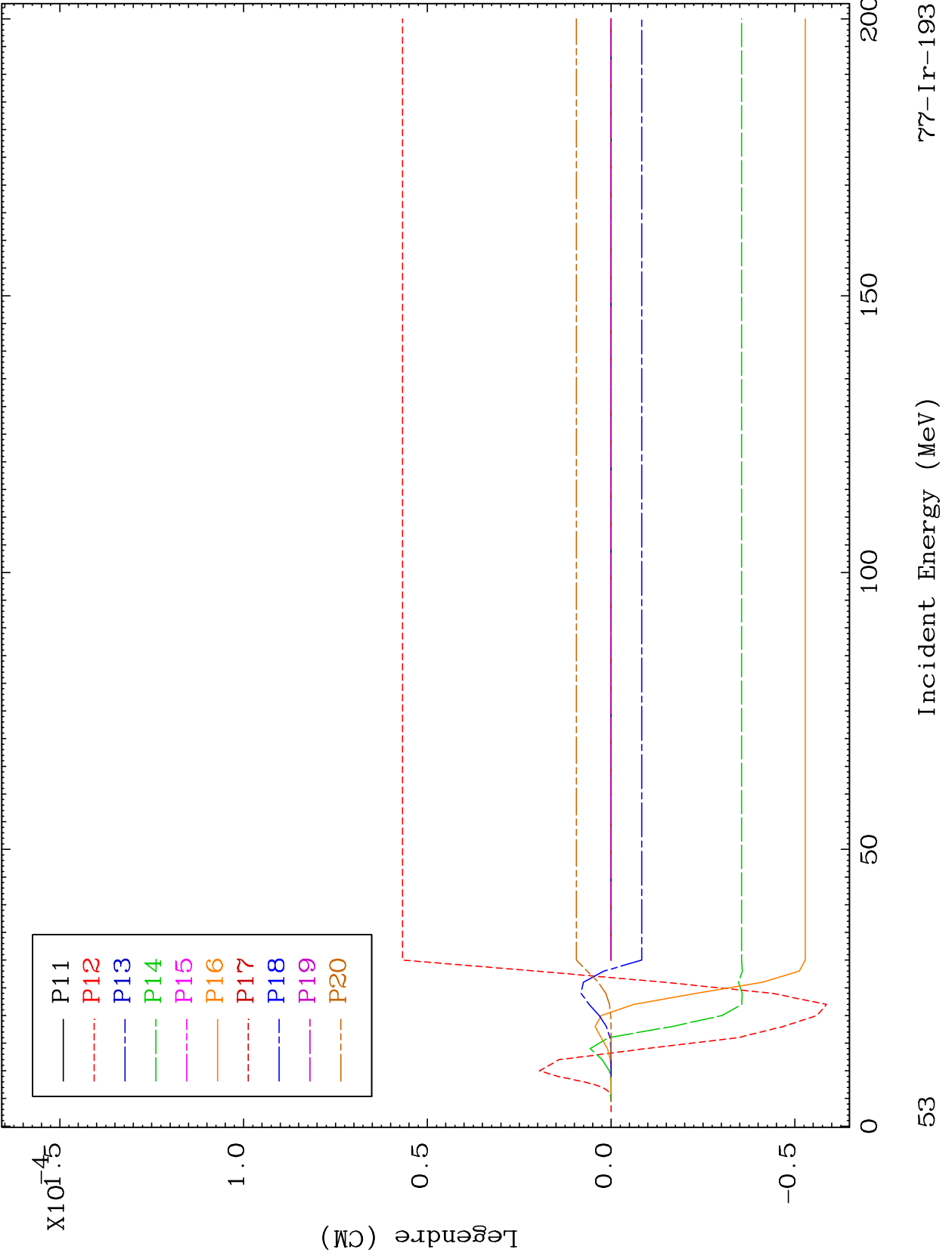


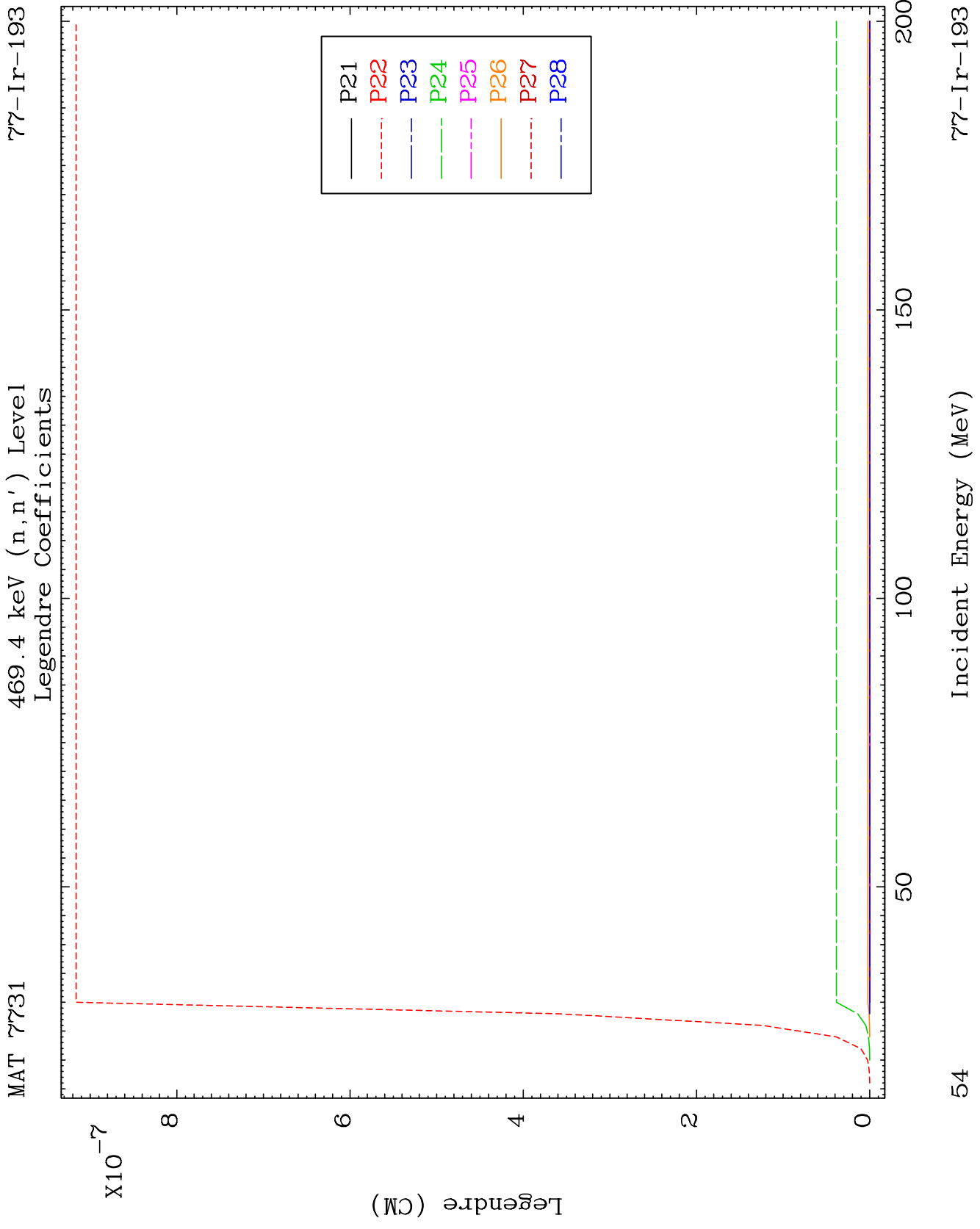
77-Ir-193

Incident Energy (MeV)

51



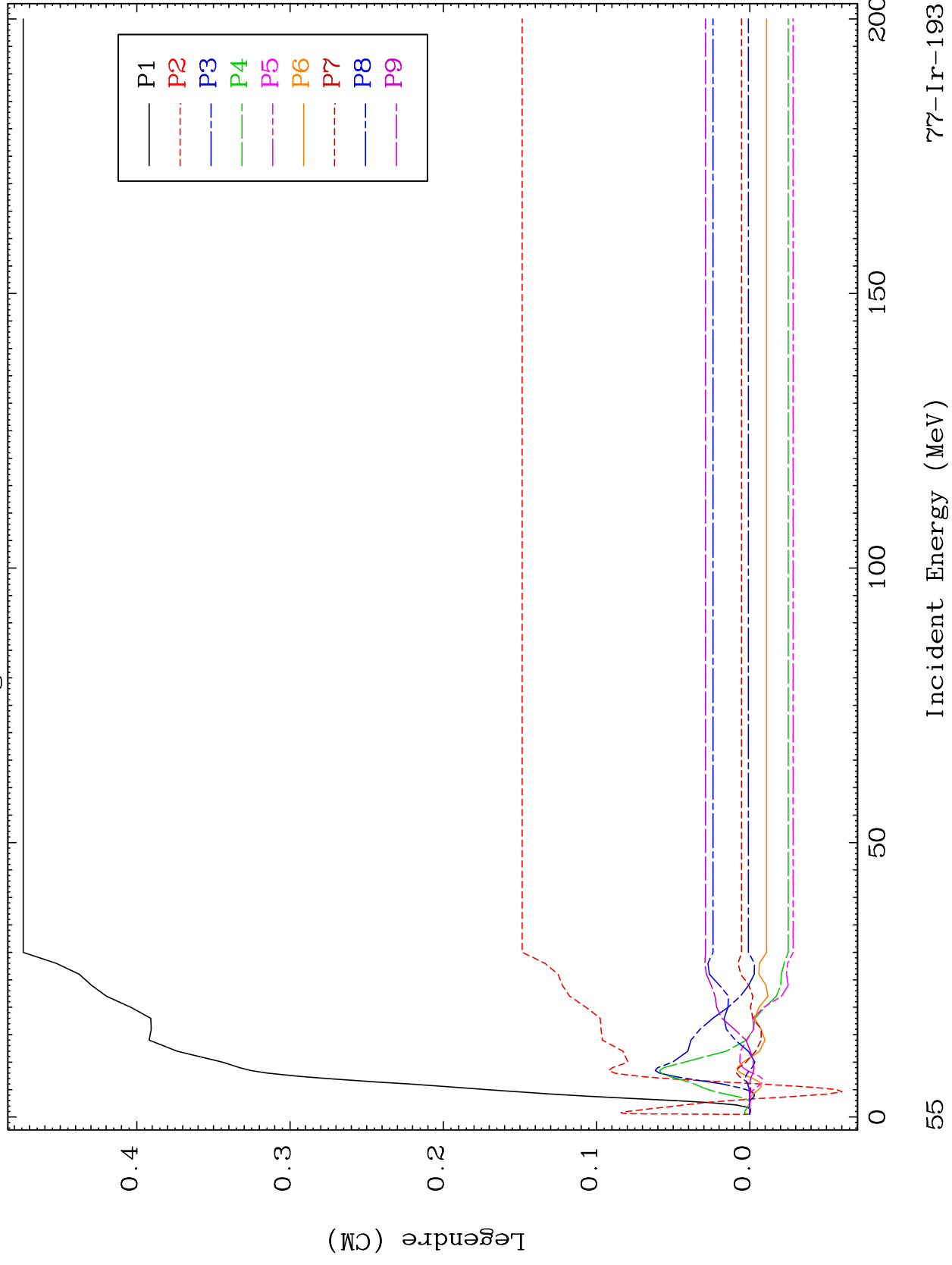




MAT 7731

479.0 keV (n,n') Level
Legendre Coefficients

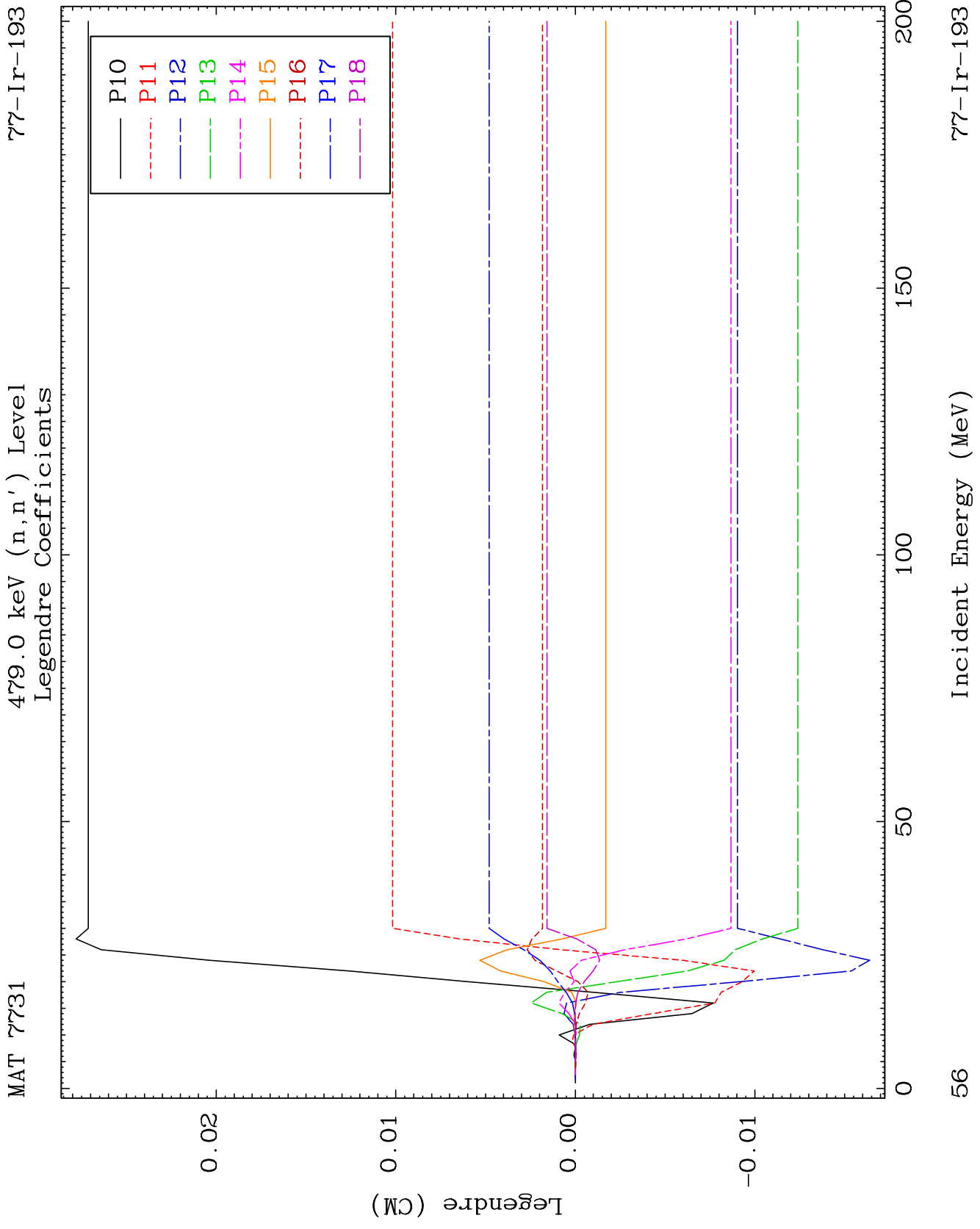
77-Ir-193

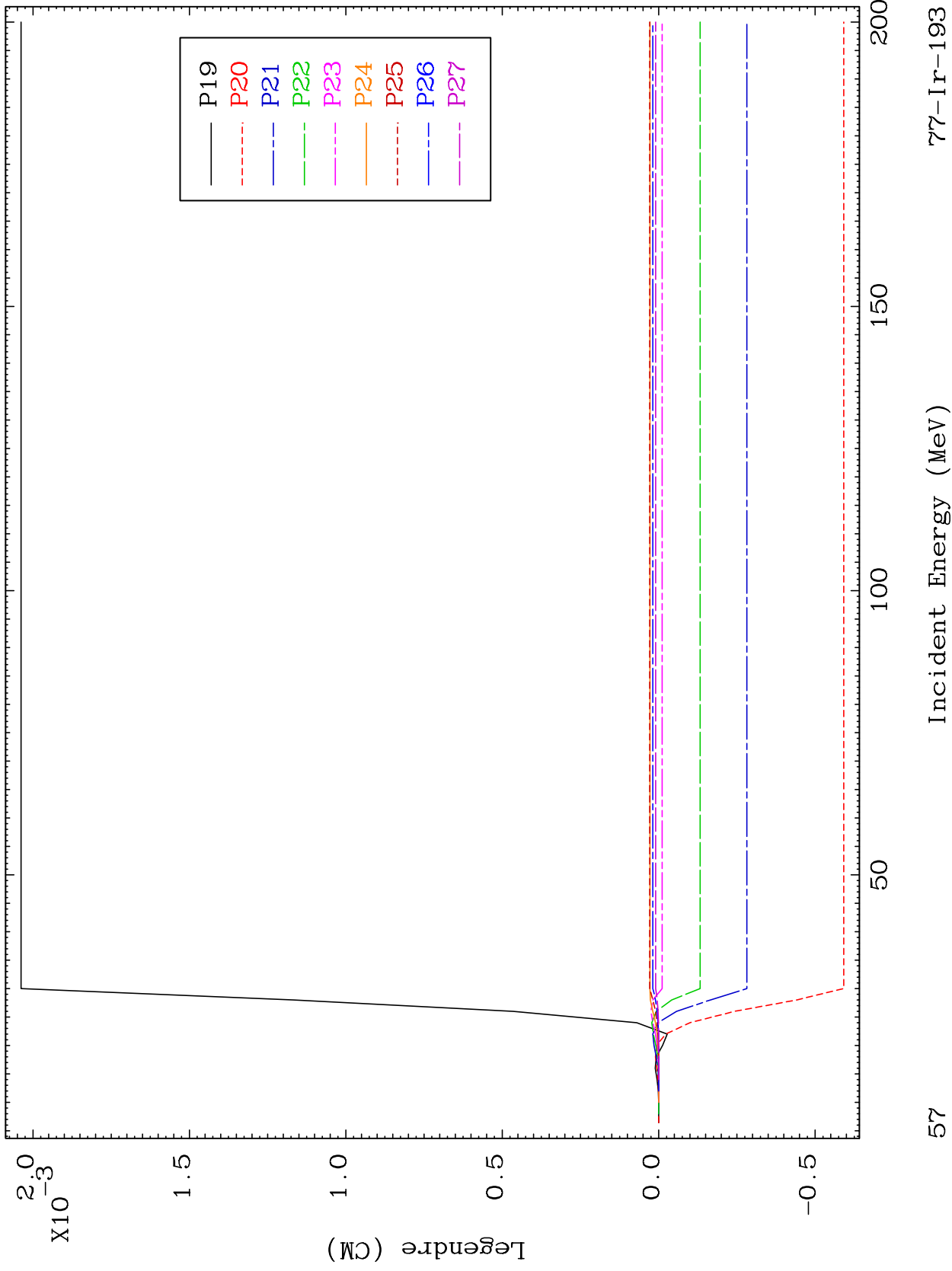


77-Ir-193

Incident Energy (MeV)

55

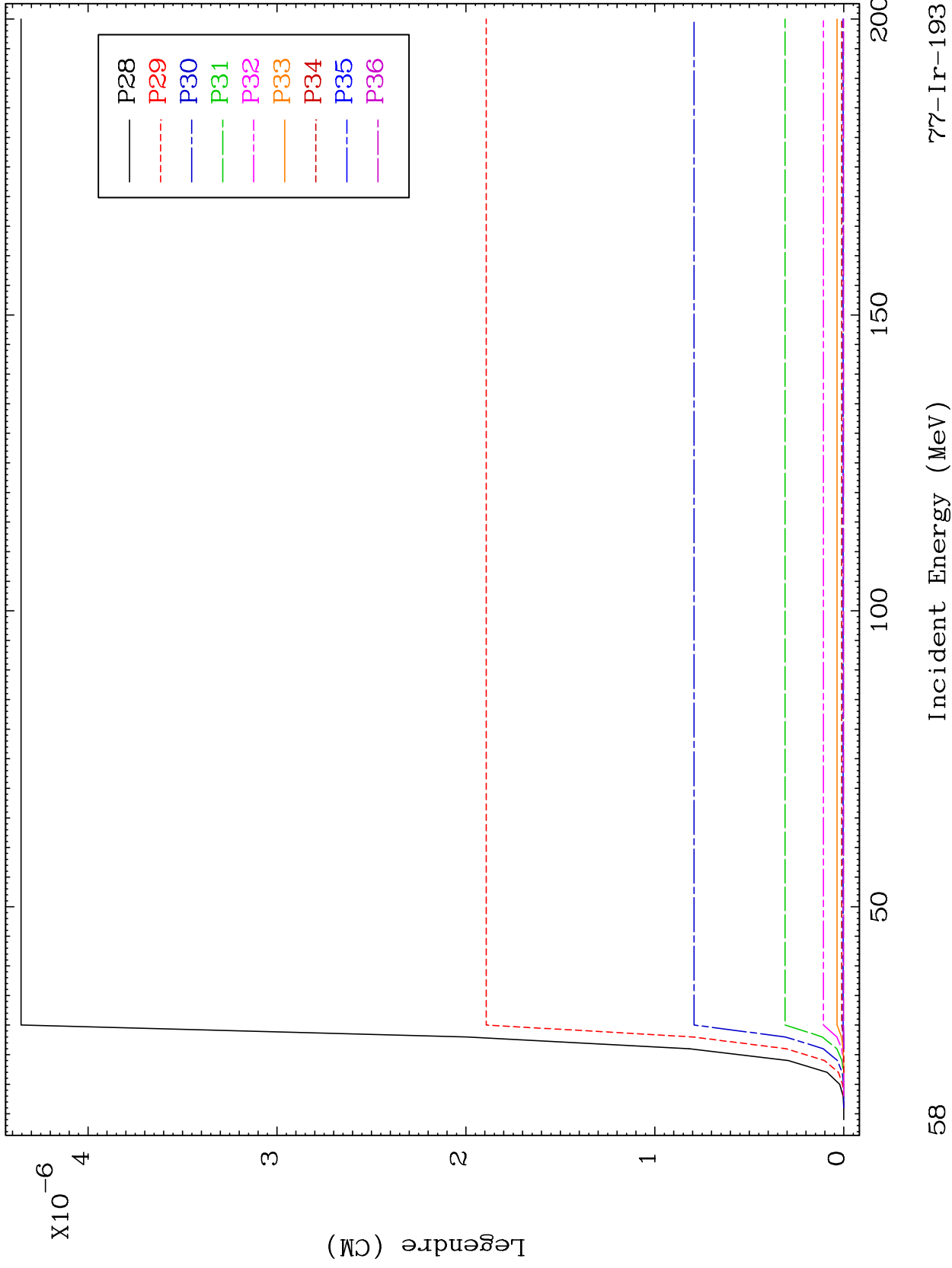




MAT 7731

479.0 keV (n,n') Level
Legendre Coefficients

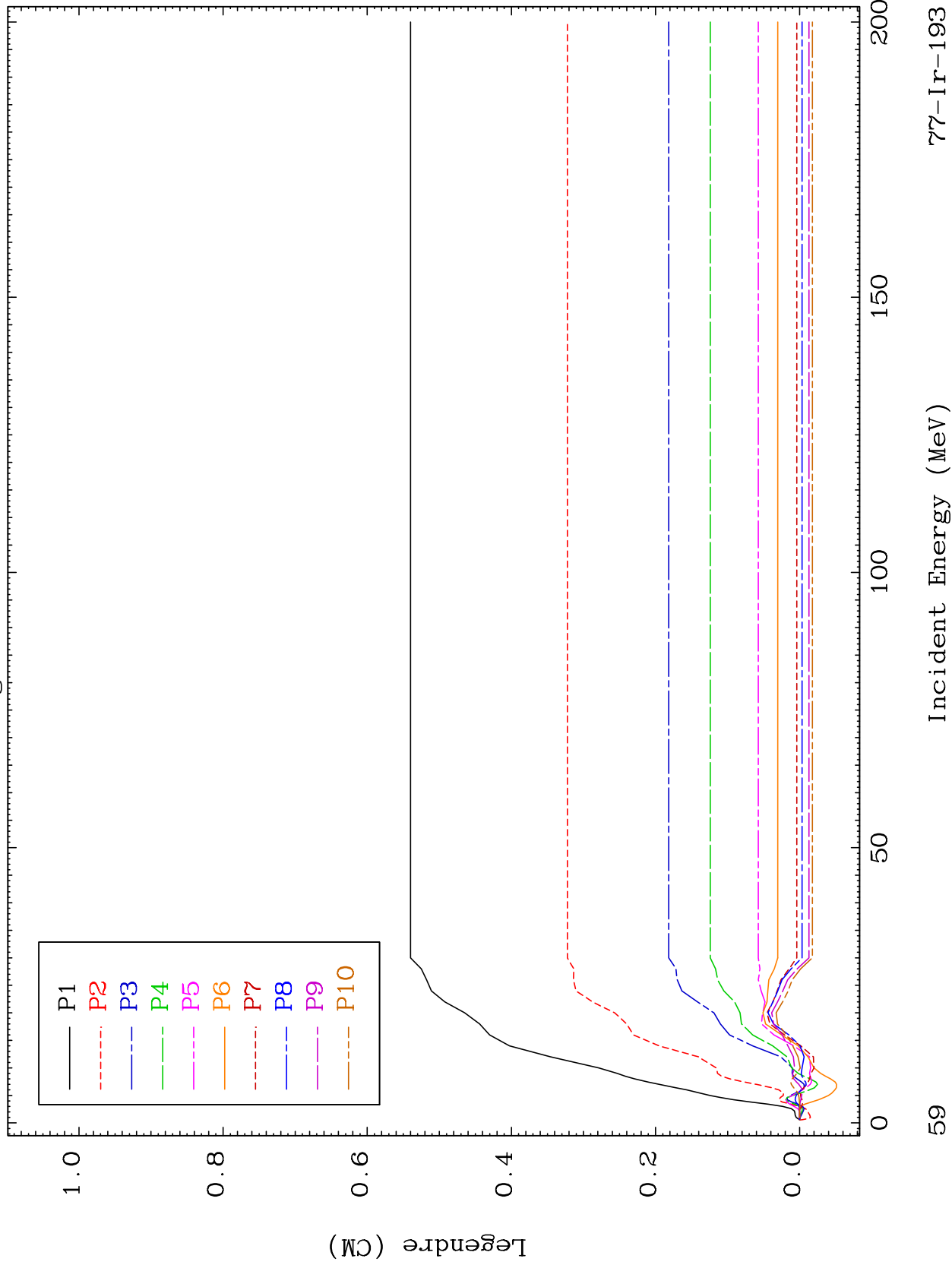
77-Ir-193



58

Incident Energy (MeV)

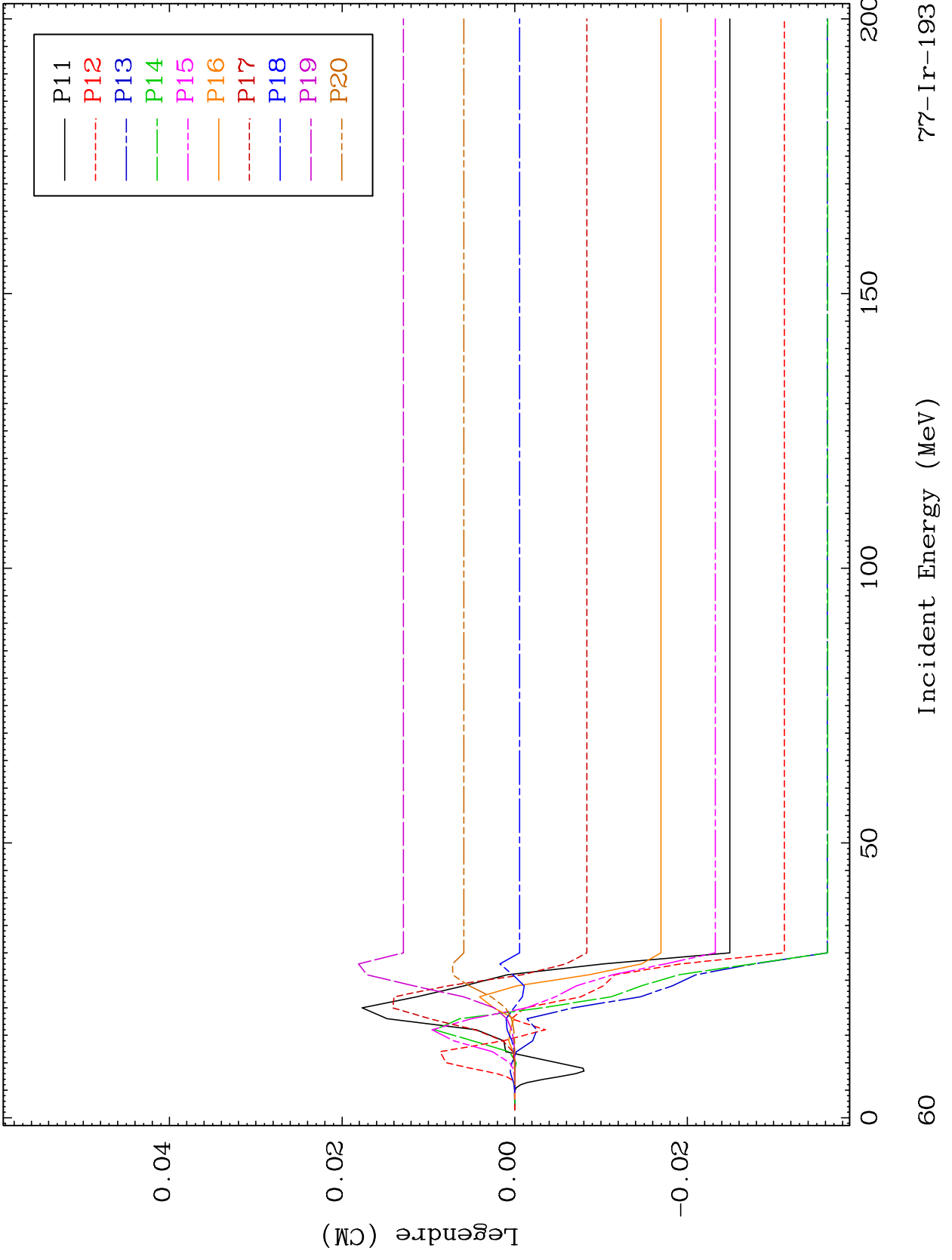
77-Ir-193



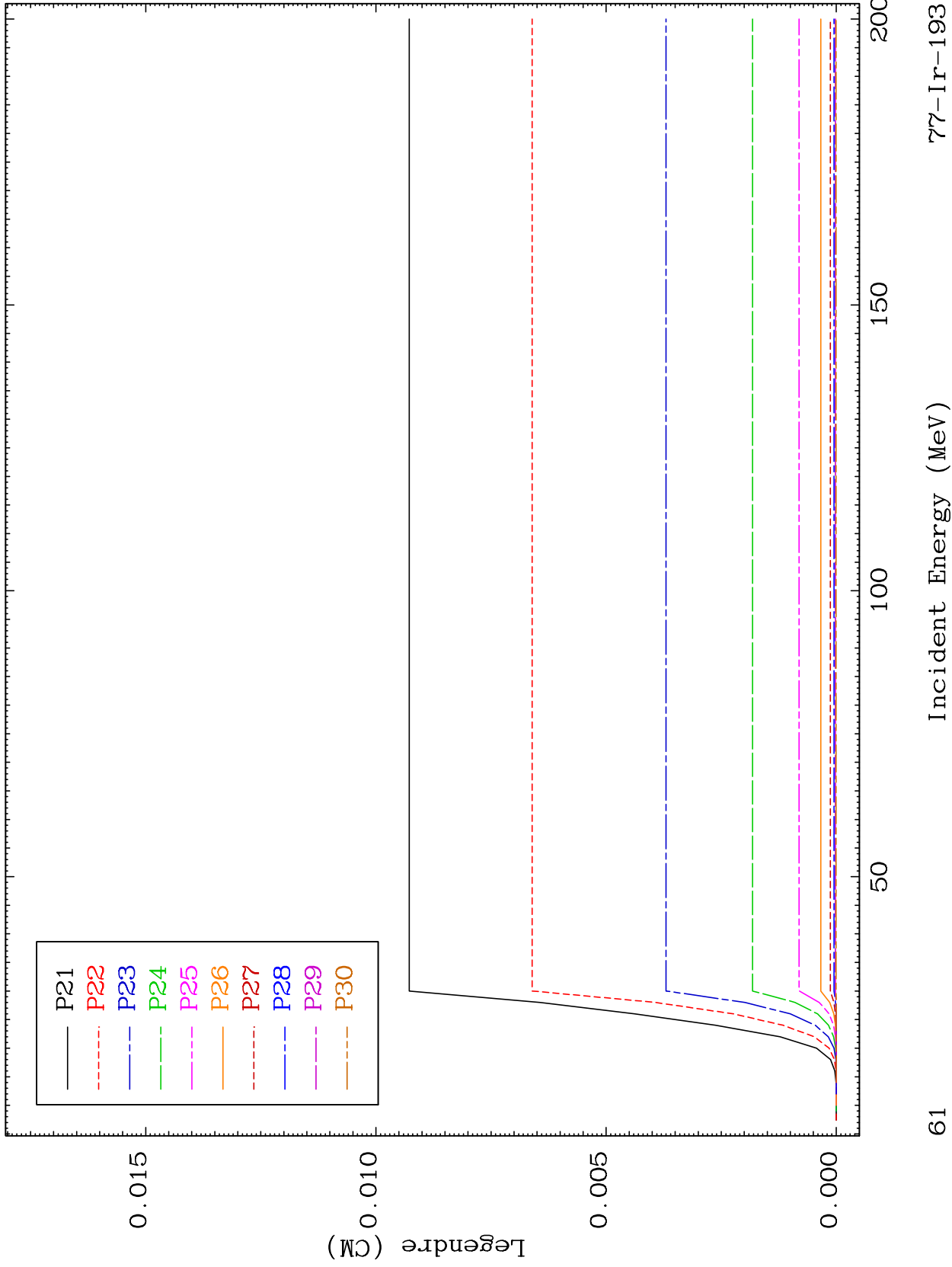
MAT 7731

516.4 keV (n,n') Level
Legendre Coefficients

77-Ir-193



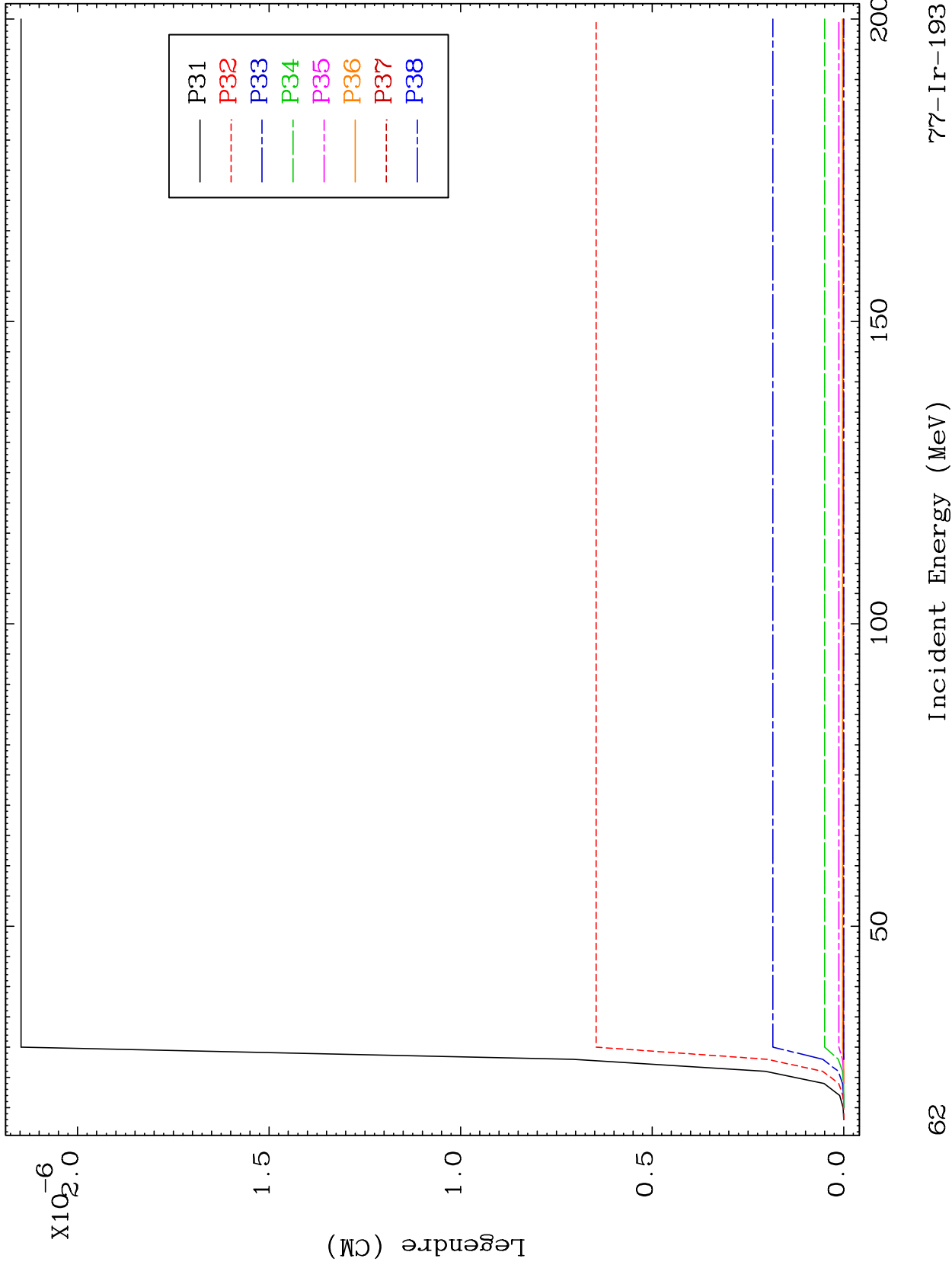
77-Ir-193



MAT 7731

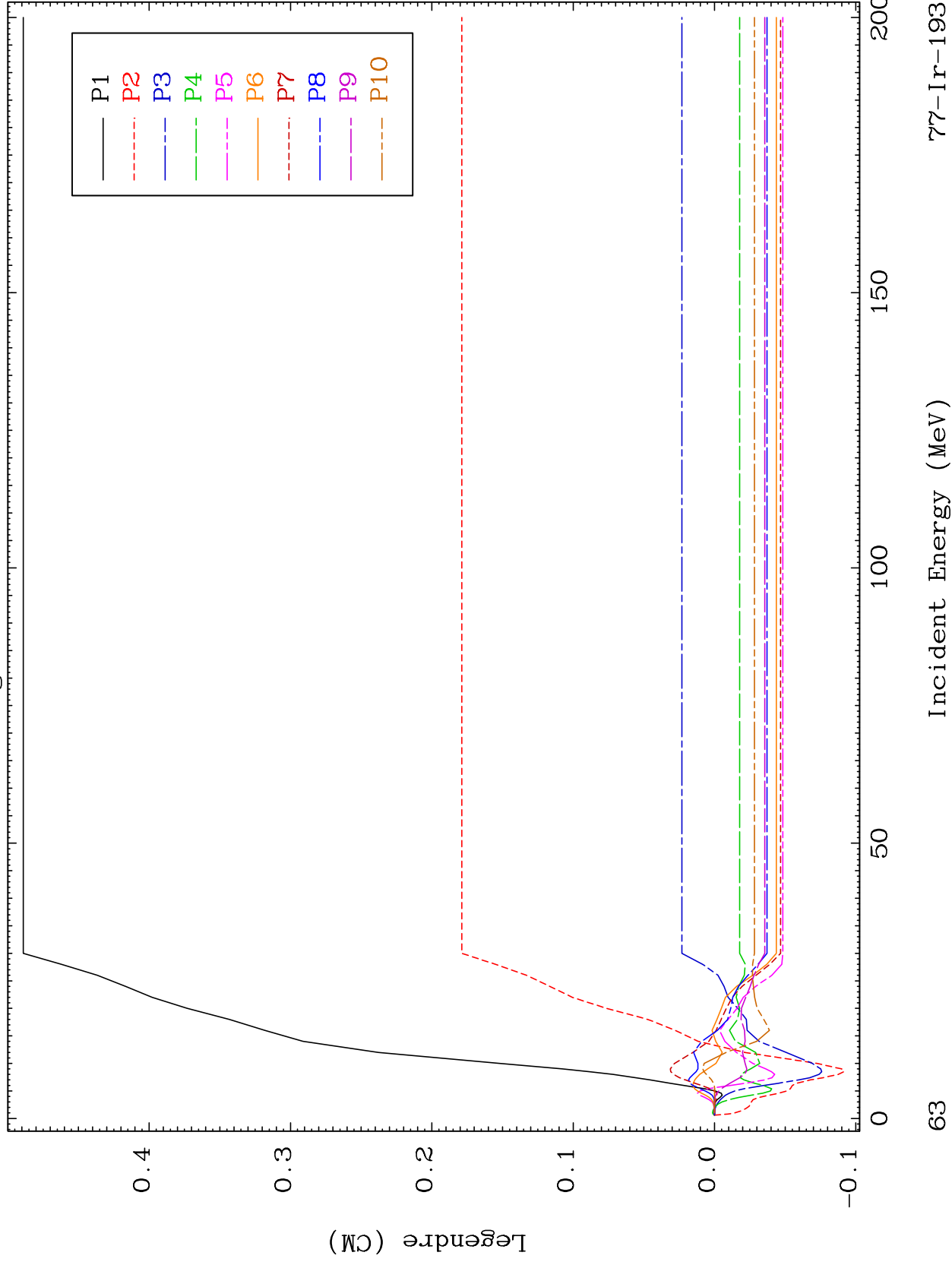
516.4 keV (n,n') Level
Legendre Coefficients

77-Ir-193



62

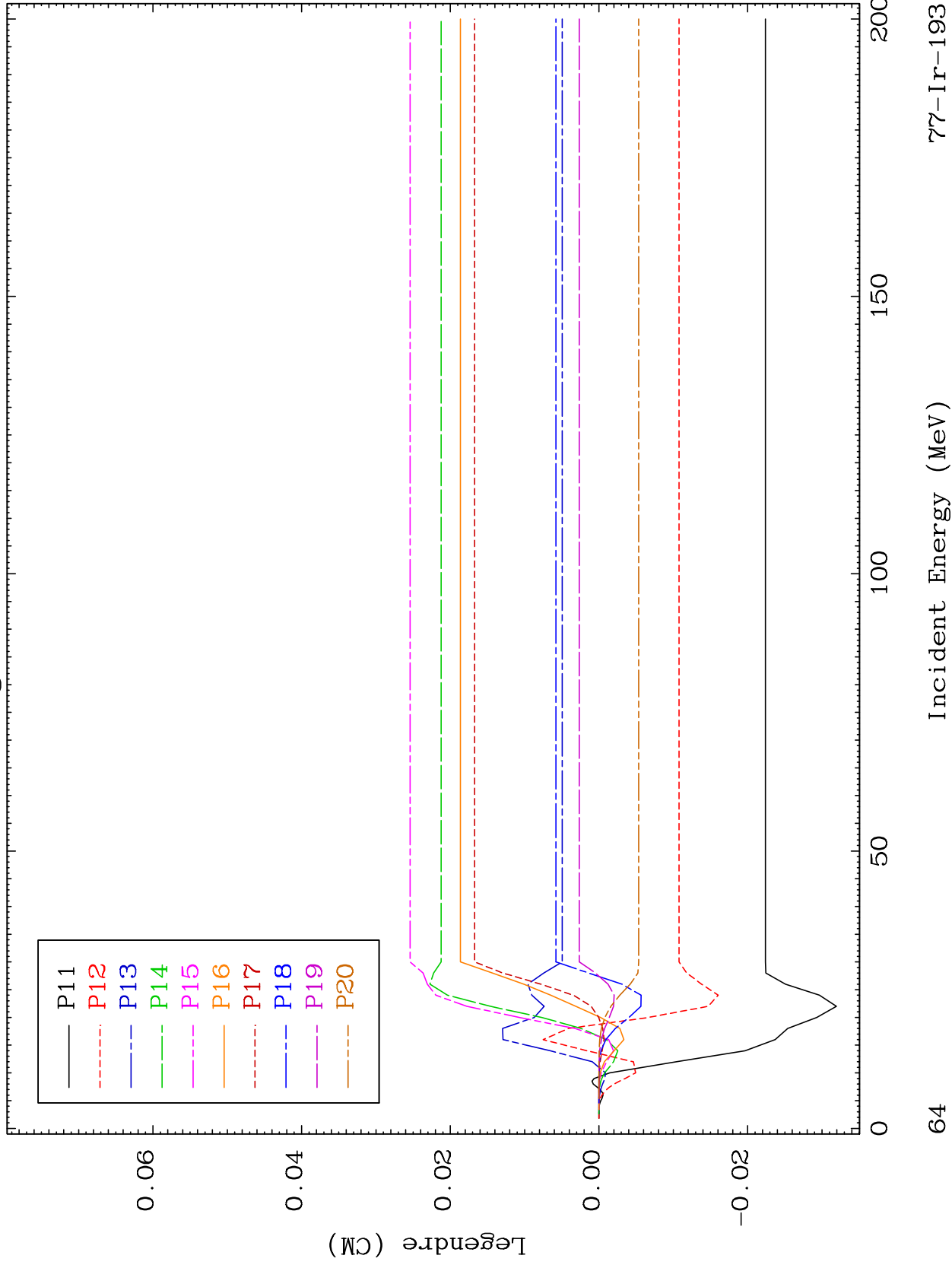
77-Ir-193



MAT 7731

521.9 keV (n,n') Level
Legendre Coefficients

77-Ir-193



77-Ir-193

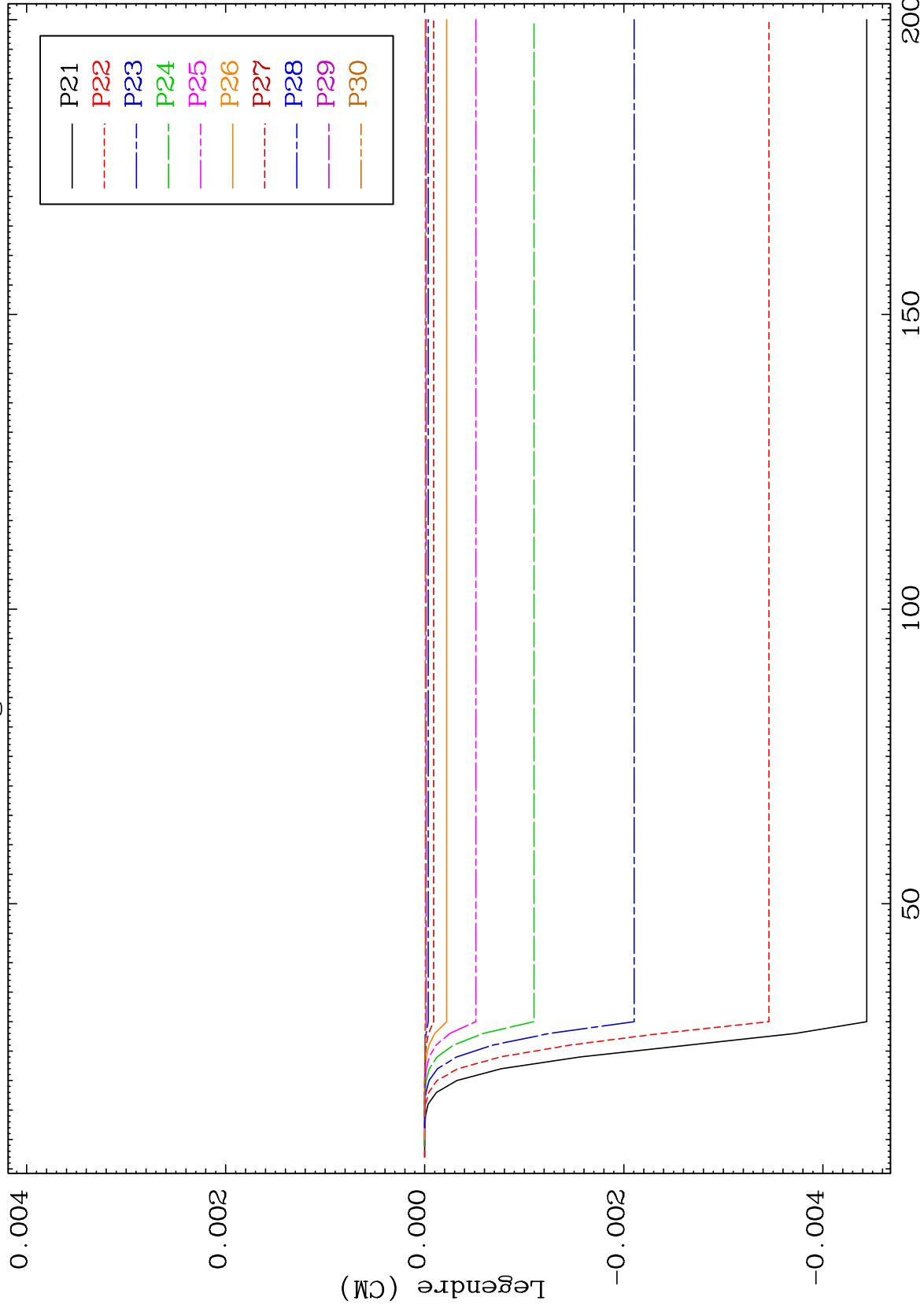
Incident Energy (MeV)

64

MAT 7731

521.9 keV (n,n') Level
Legendre Coefficients

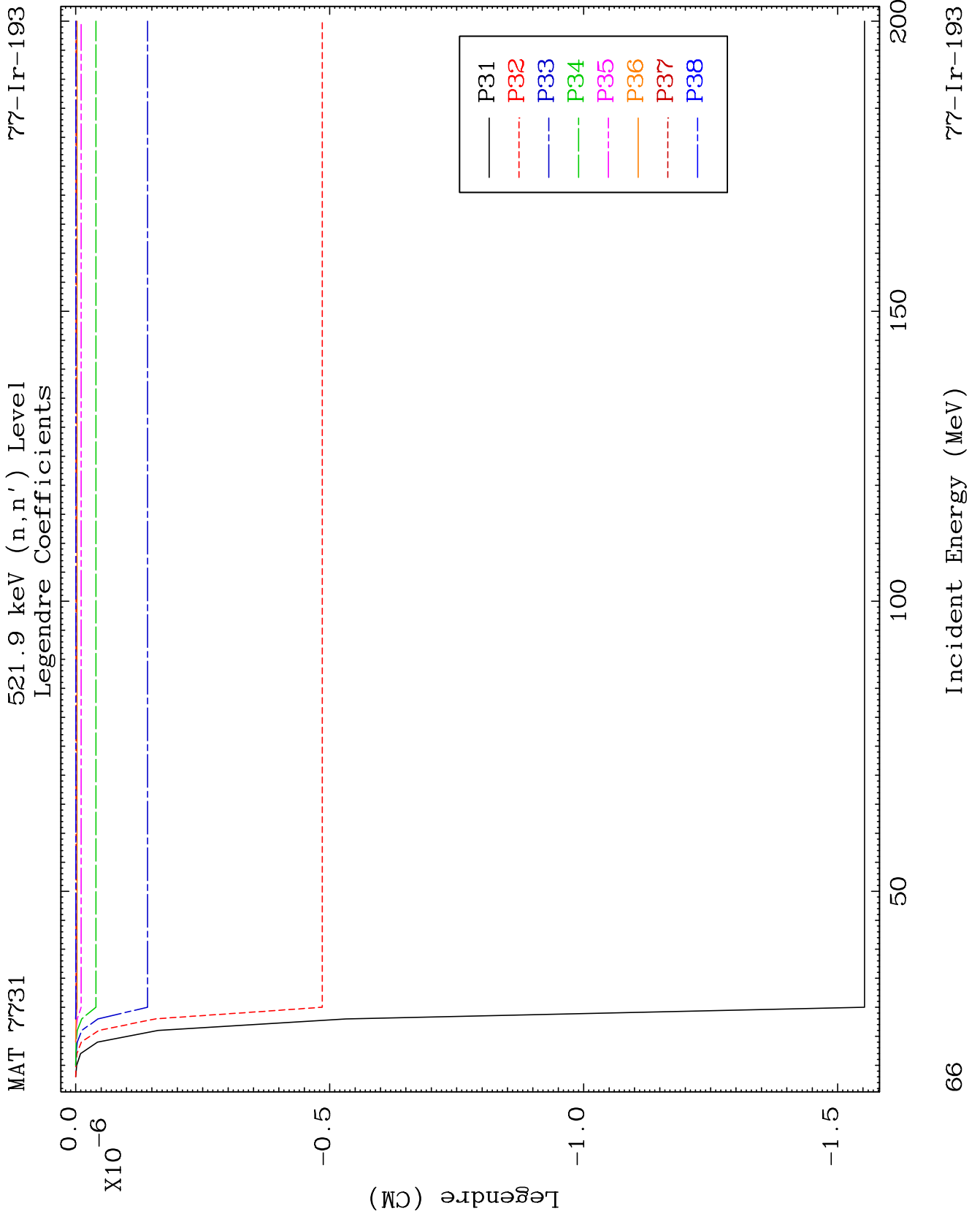
77-Ir-193



65

Incident Energy (MeV)

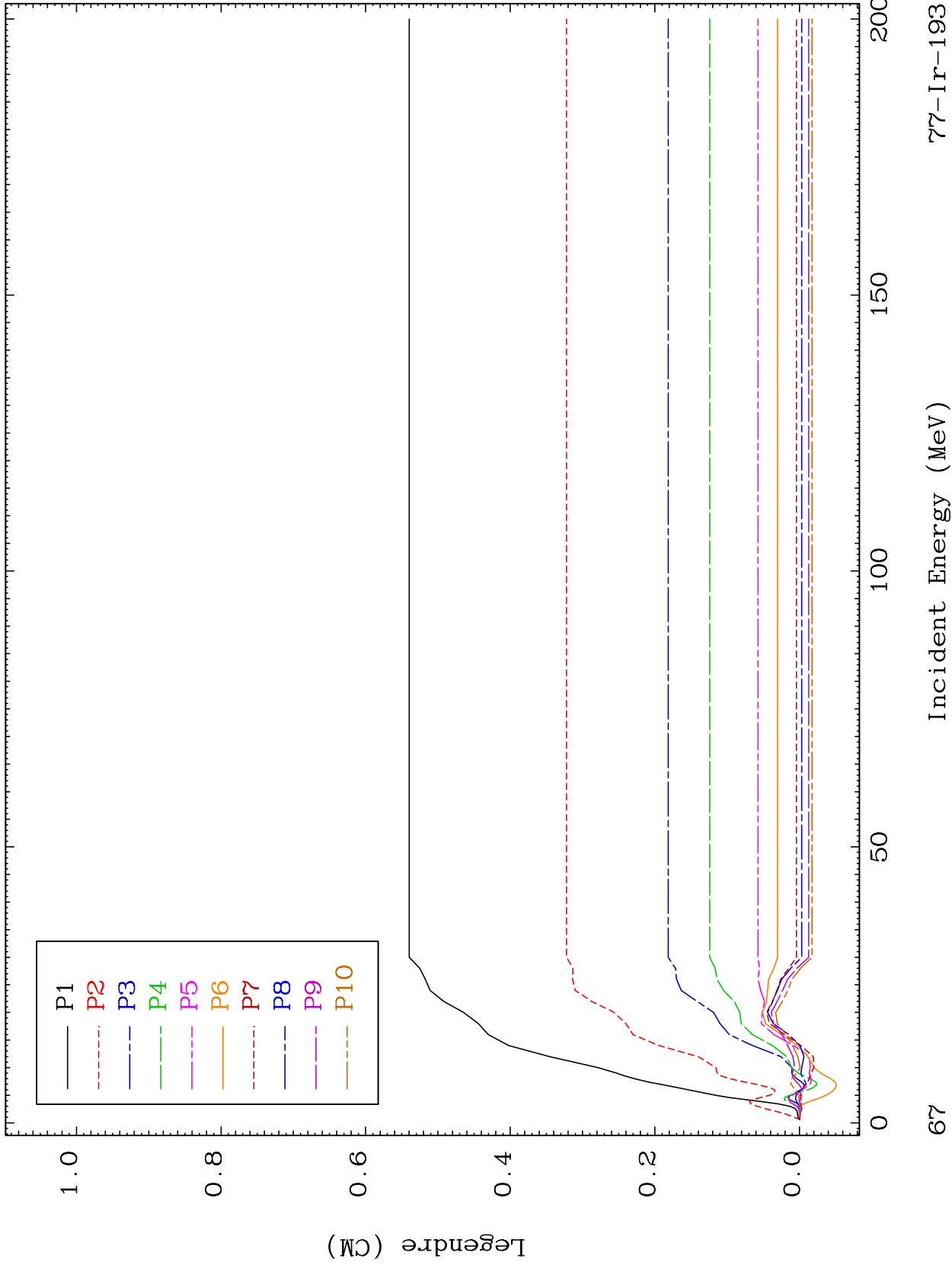
77-Ir-193



MAT 7731

557.4 keV (n,n') Level
Legendre Coefficients

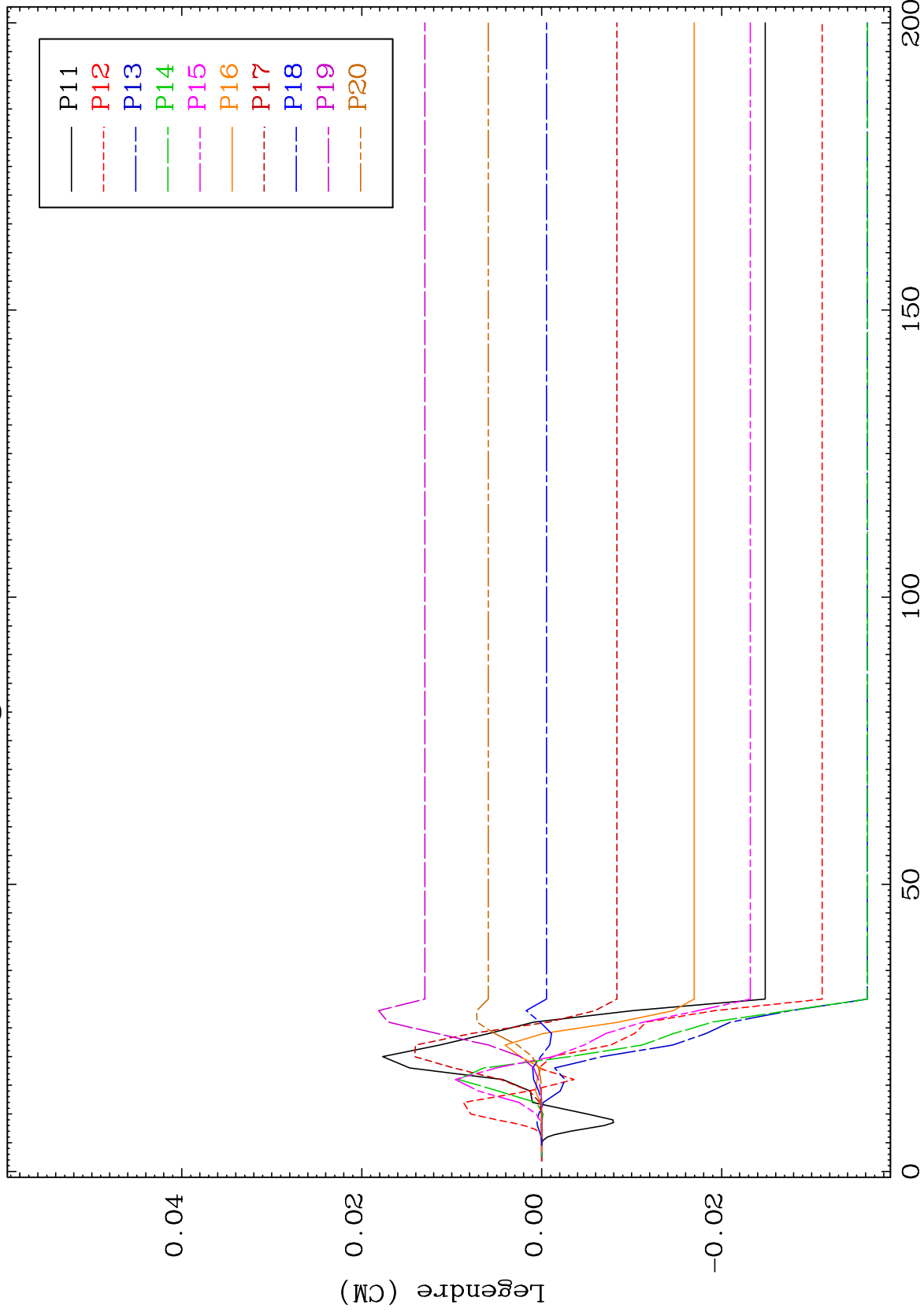
77-Ir-193

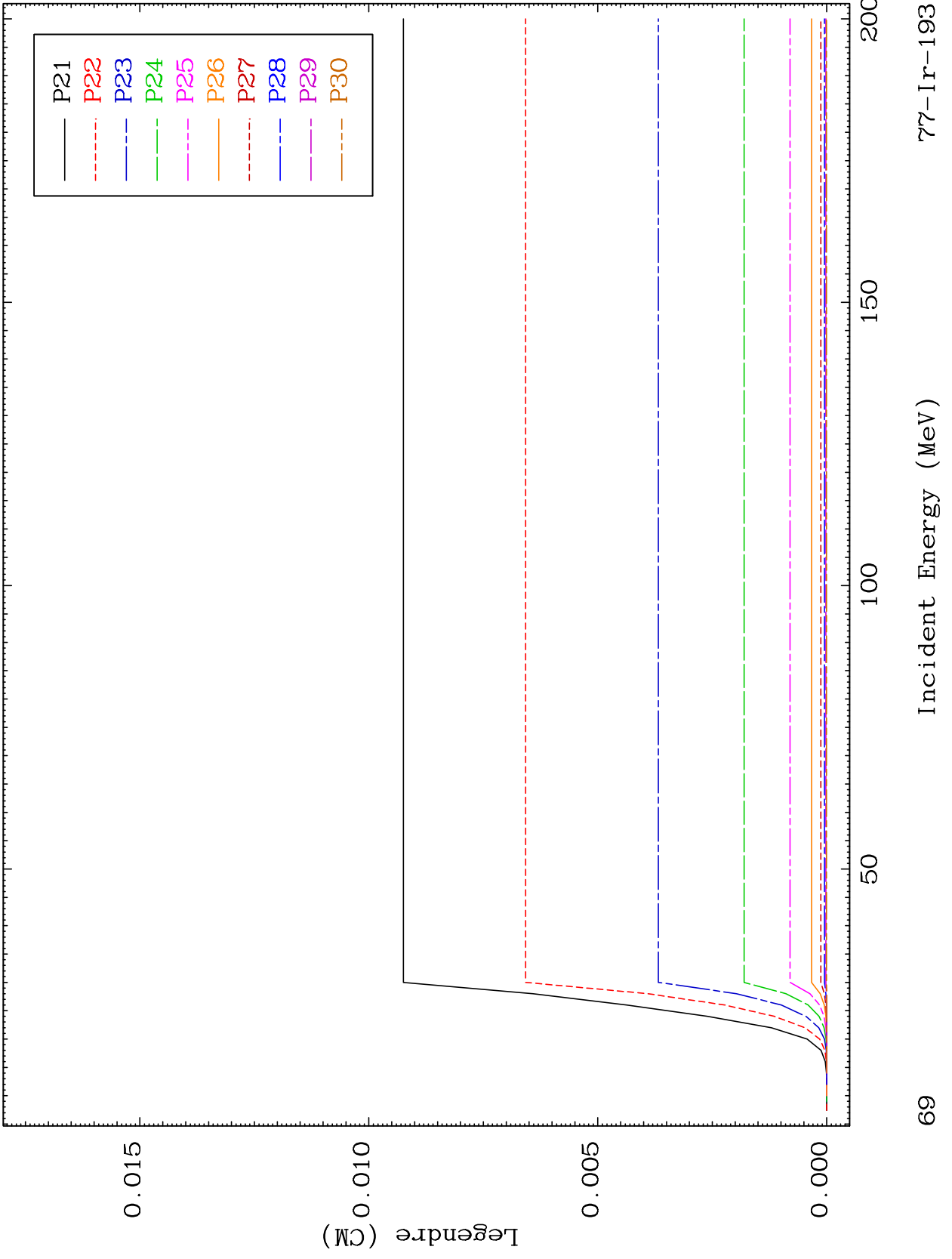


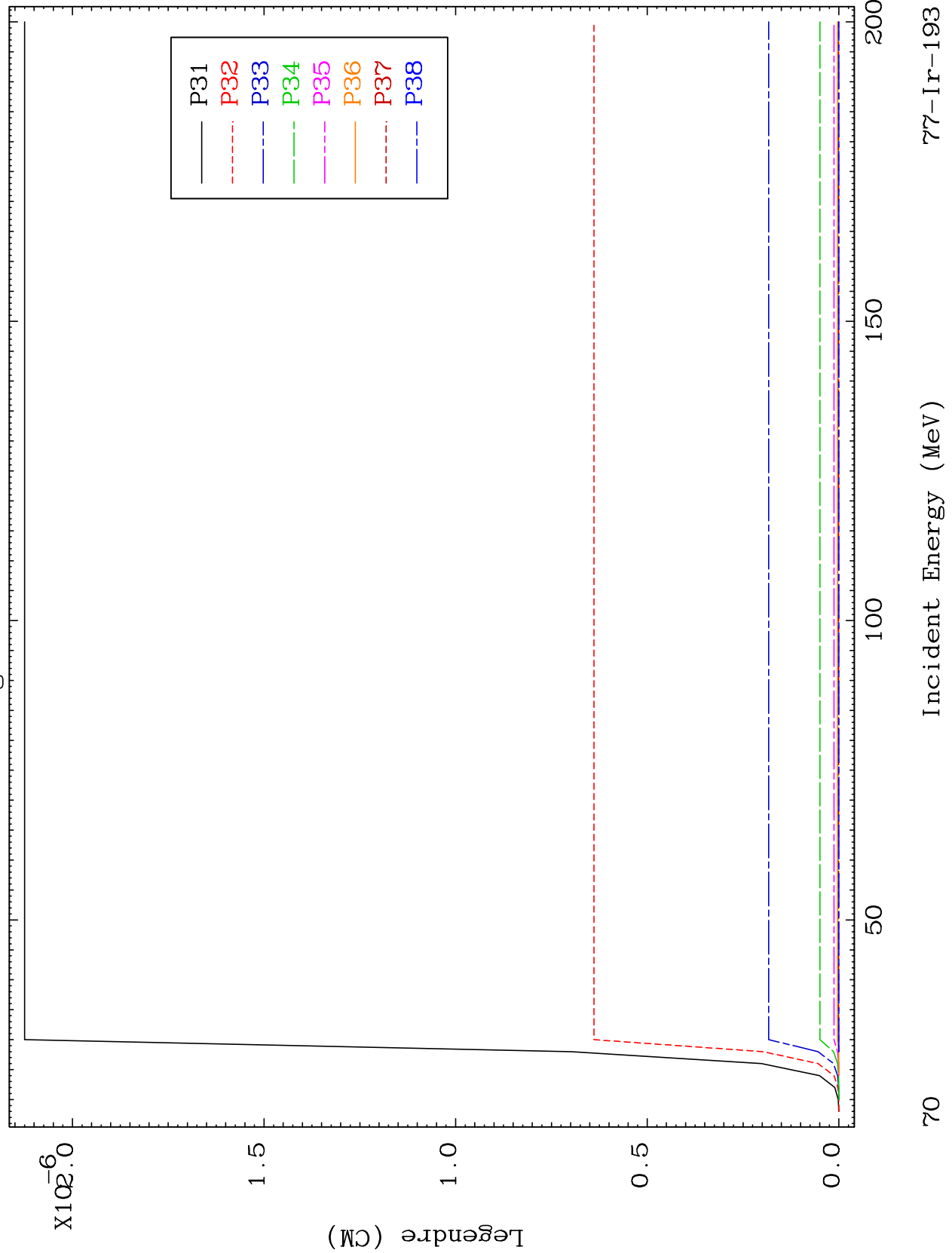
77-Ir-193

Incident Energy (MeV)

67



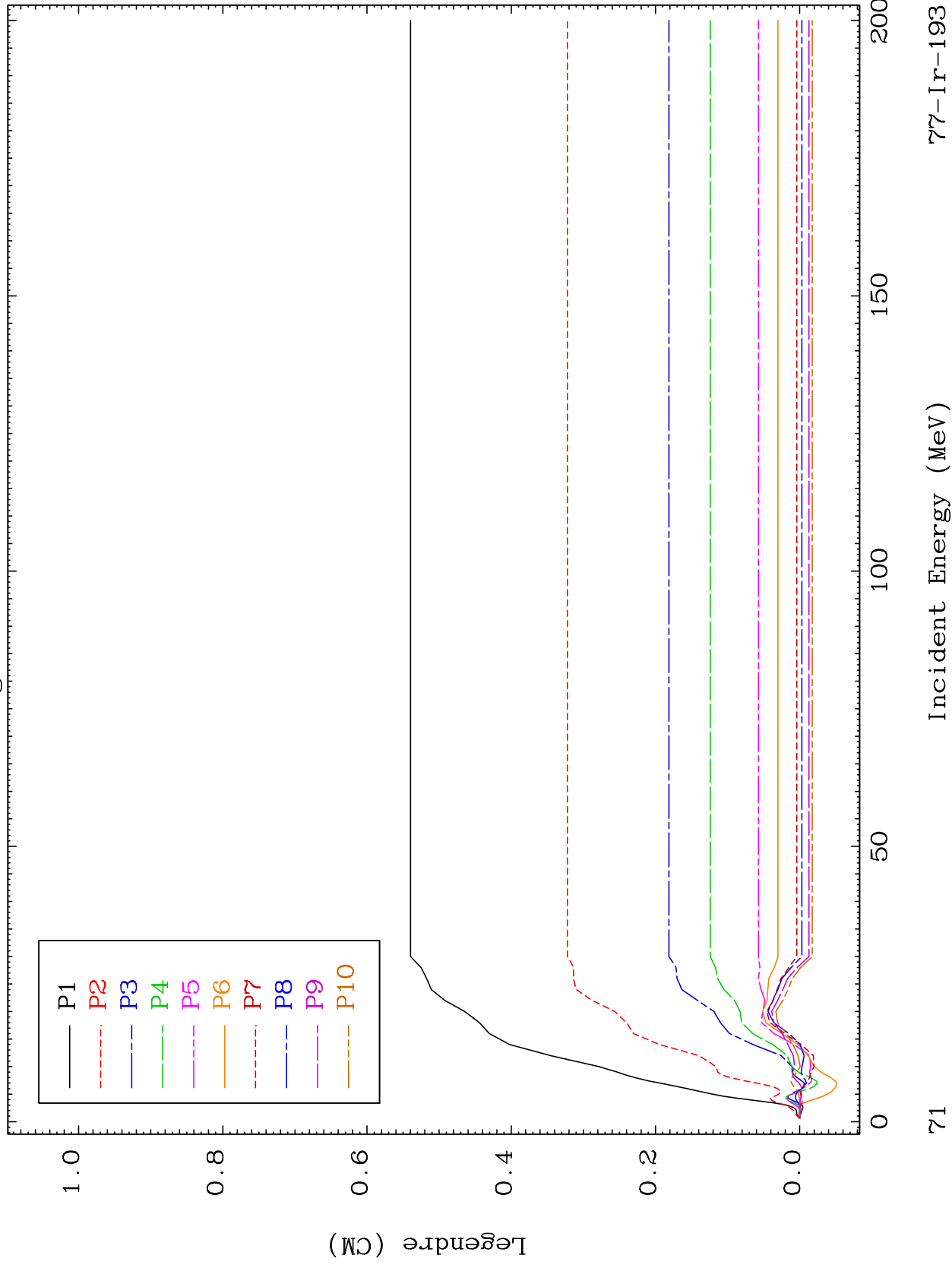




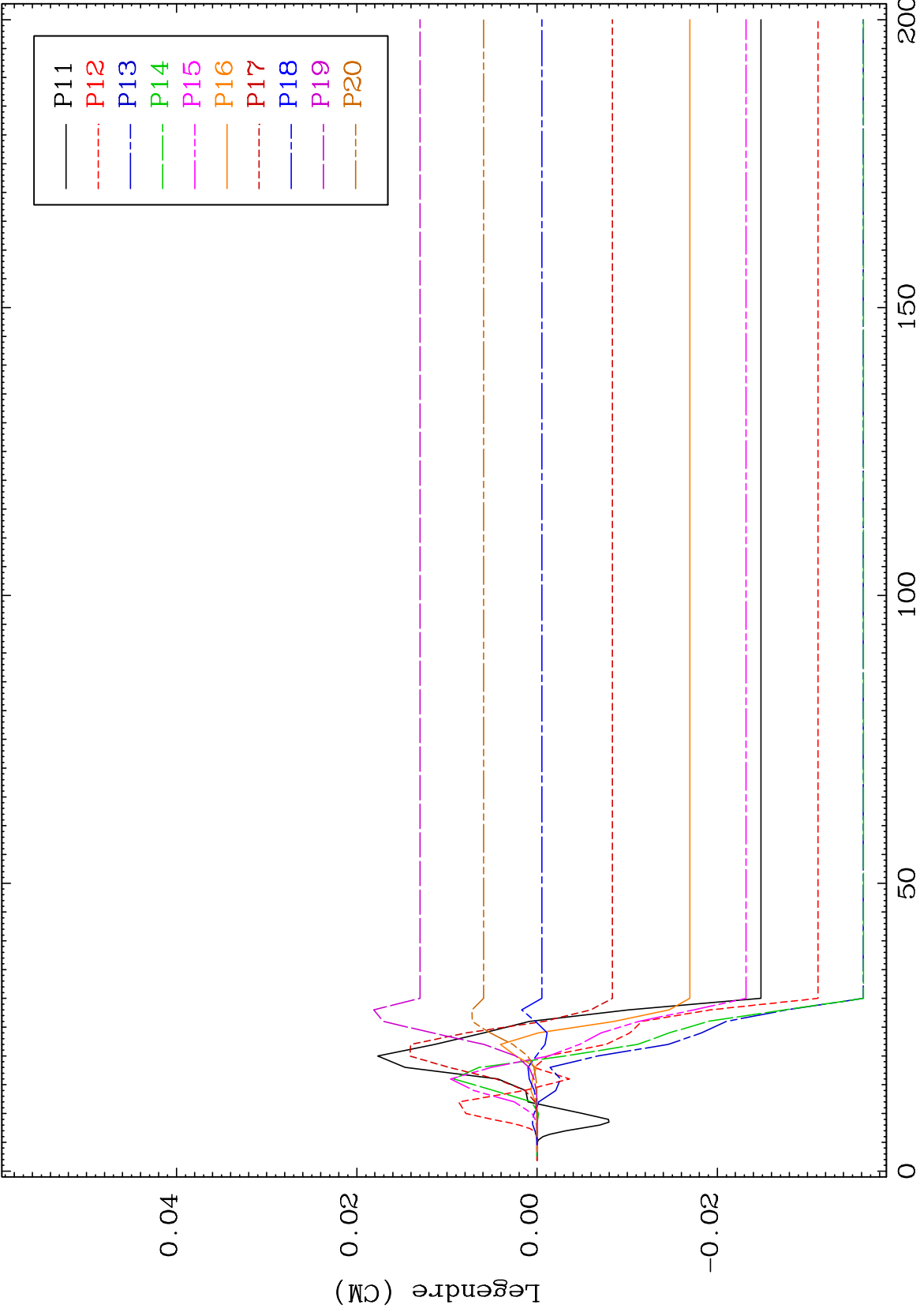
MAT 7731

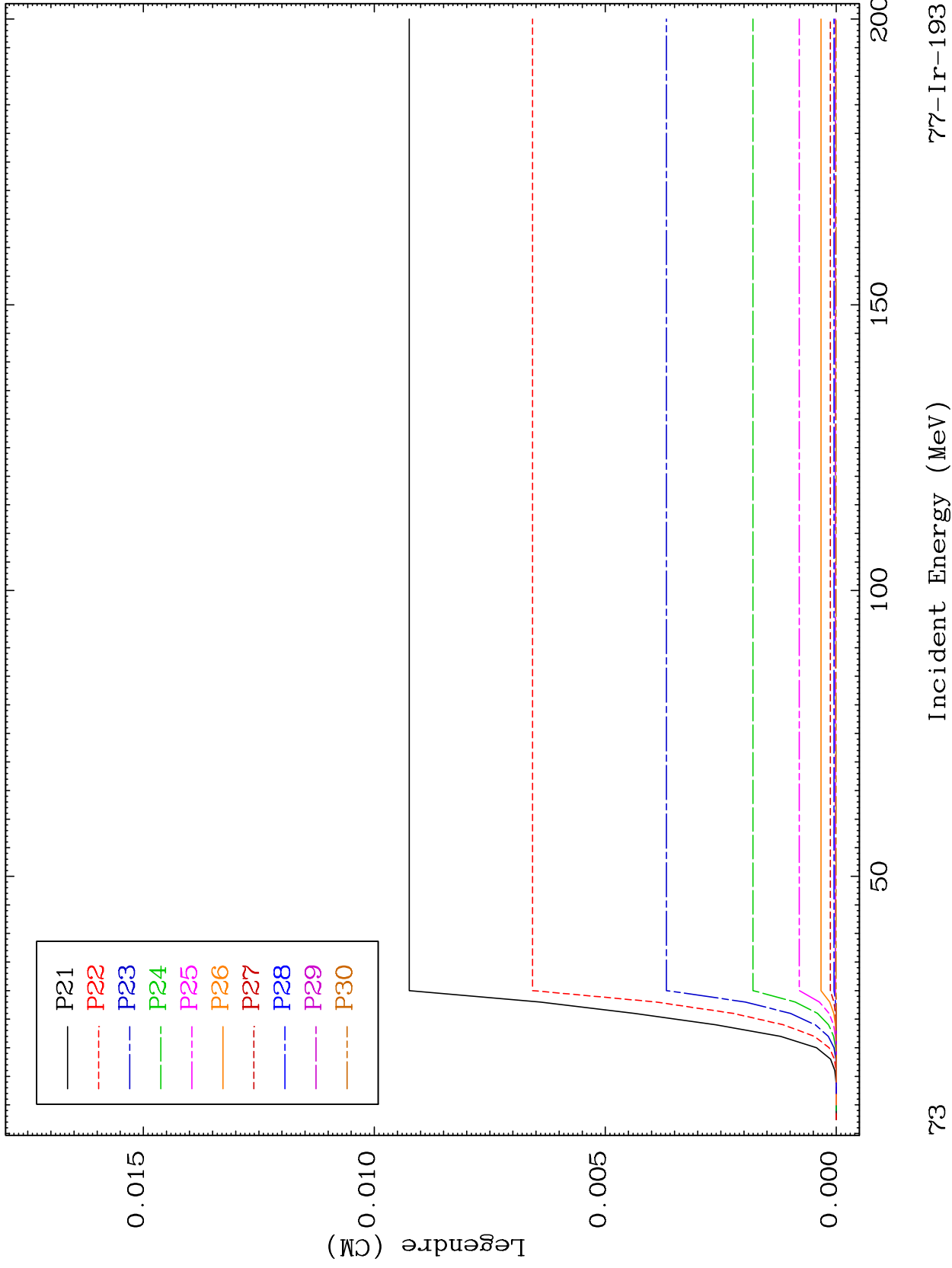
559.3 keV (n,n') Level
Legendre Coefficients

77-Ir-193



71

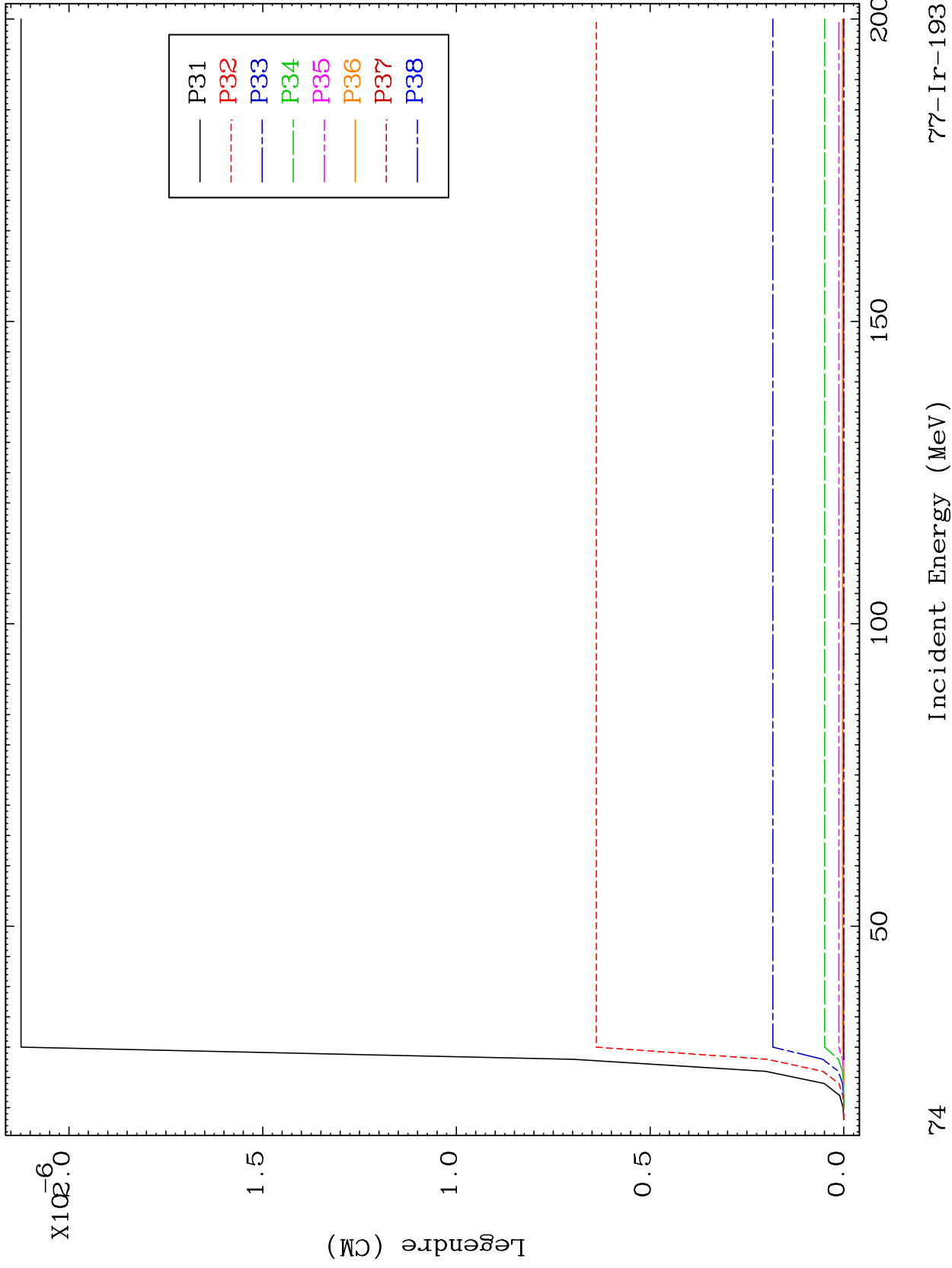




MAT 7731

559.3 keV (n,n') Level
Legendre Coefficients

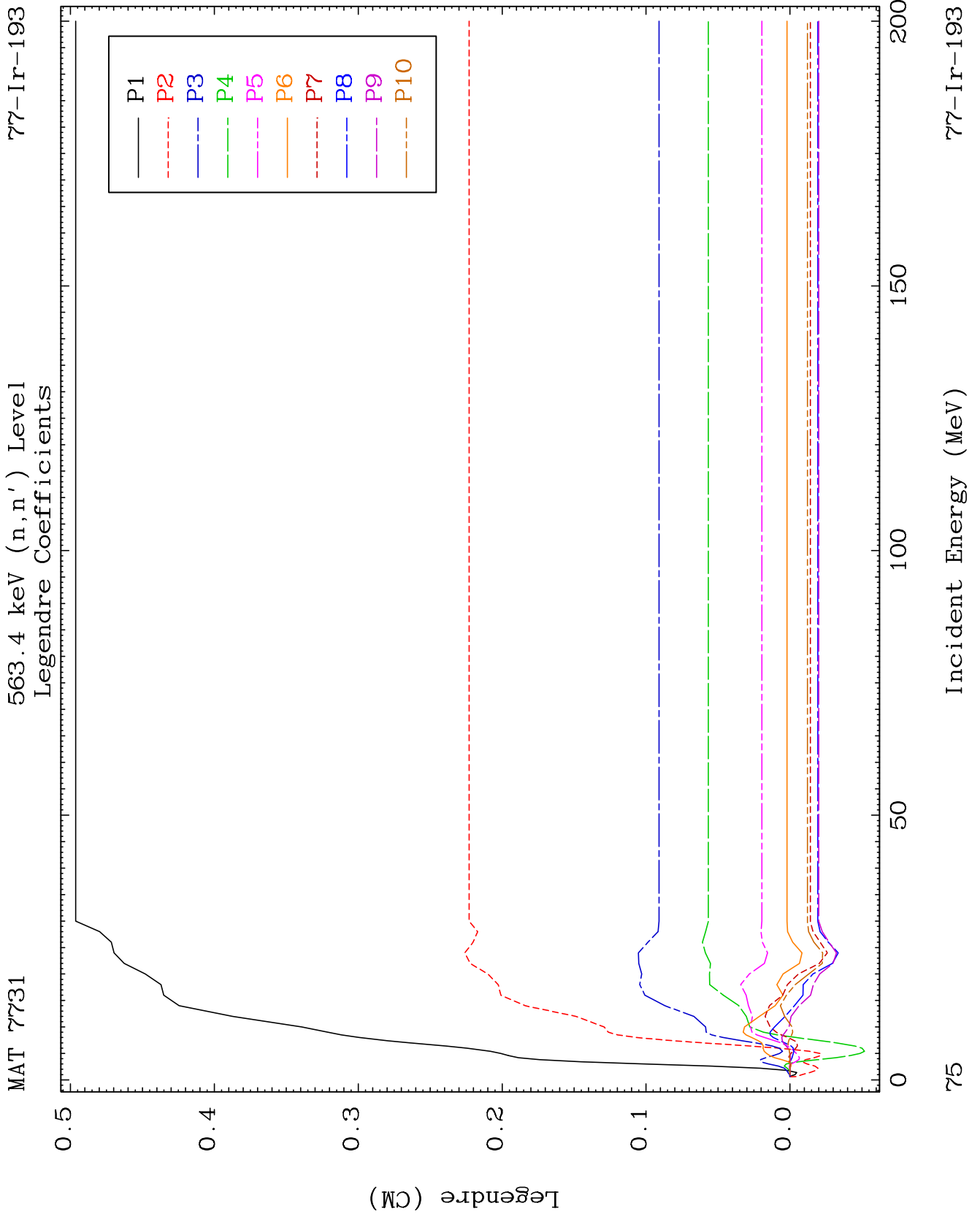
77-Ir-193



74

Incident Energy (MeV)

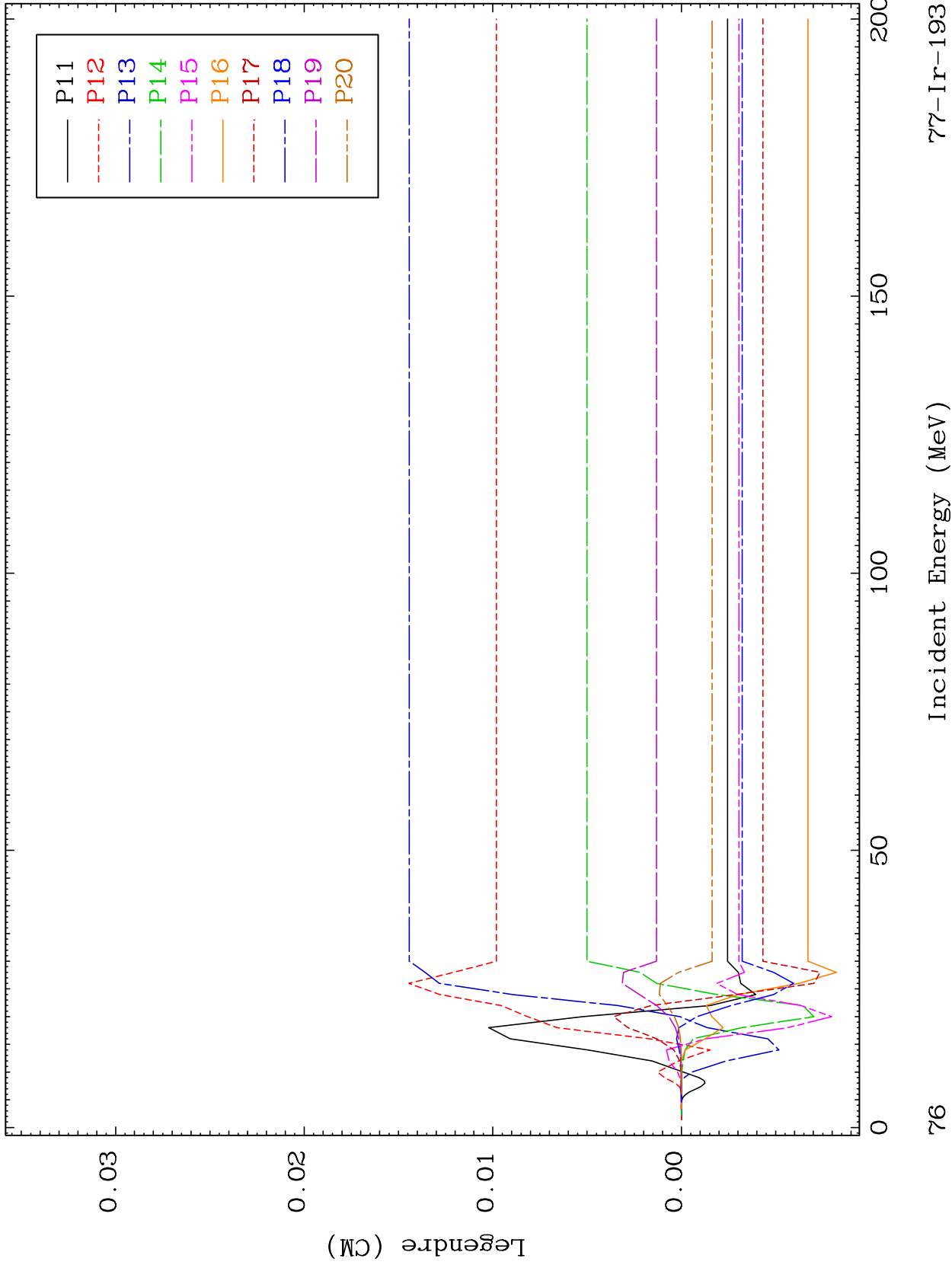
77-Ir-193



MAT 7731

563.4 keV (n,n') Level
Legendre Coefficients

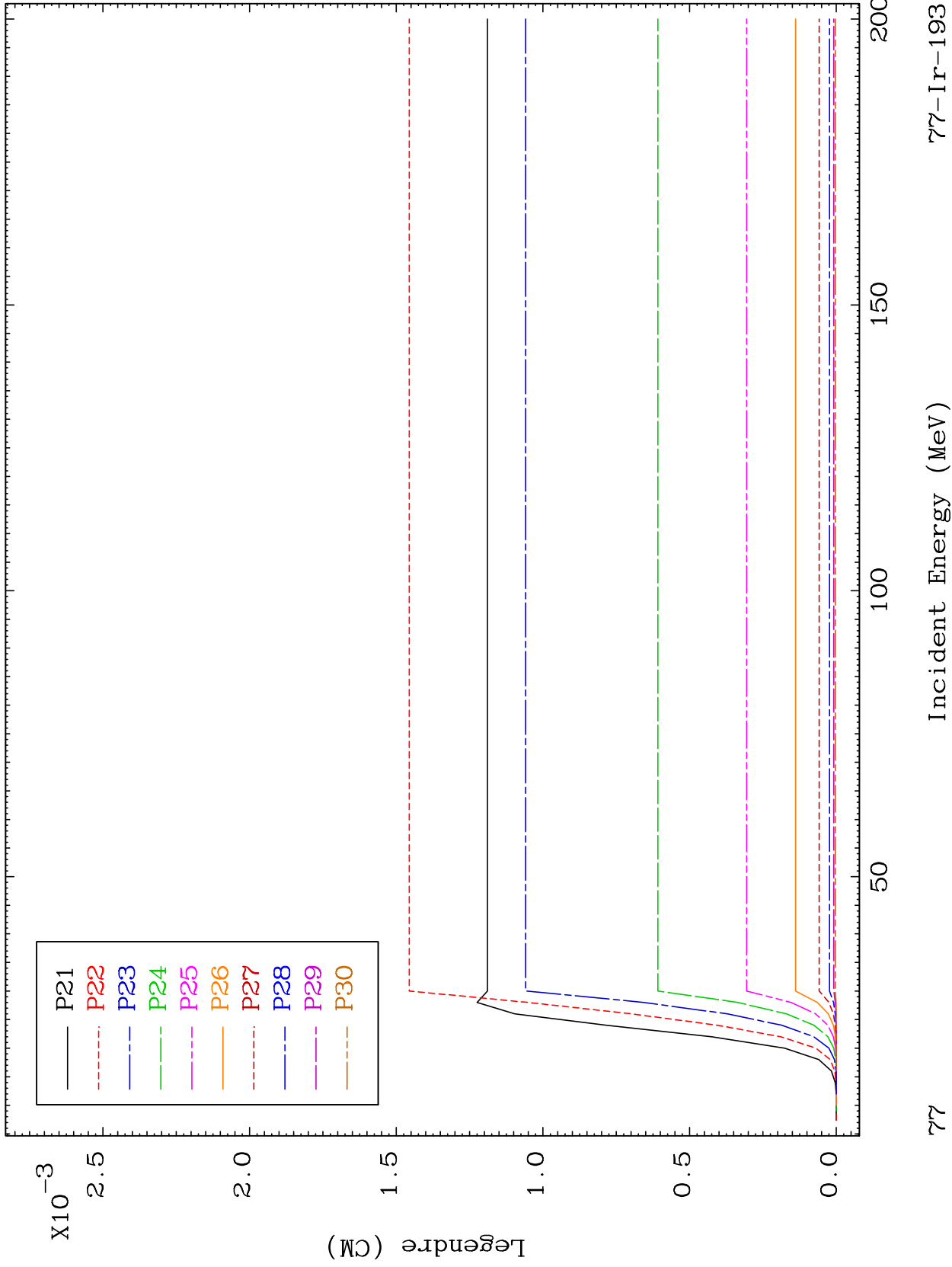
77-Ir-193

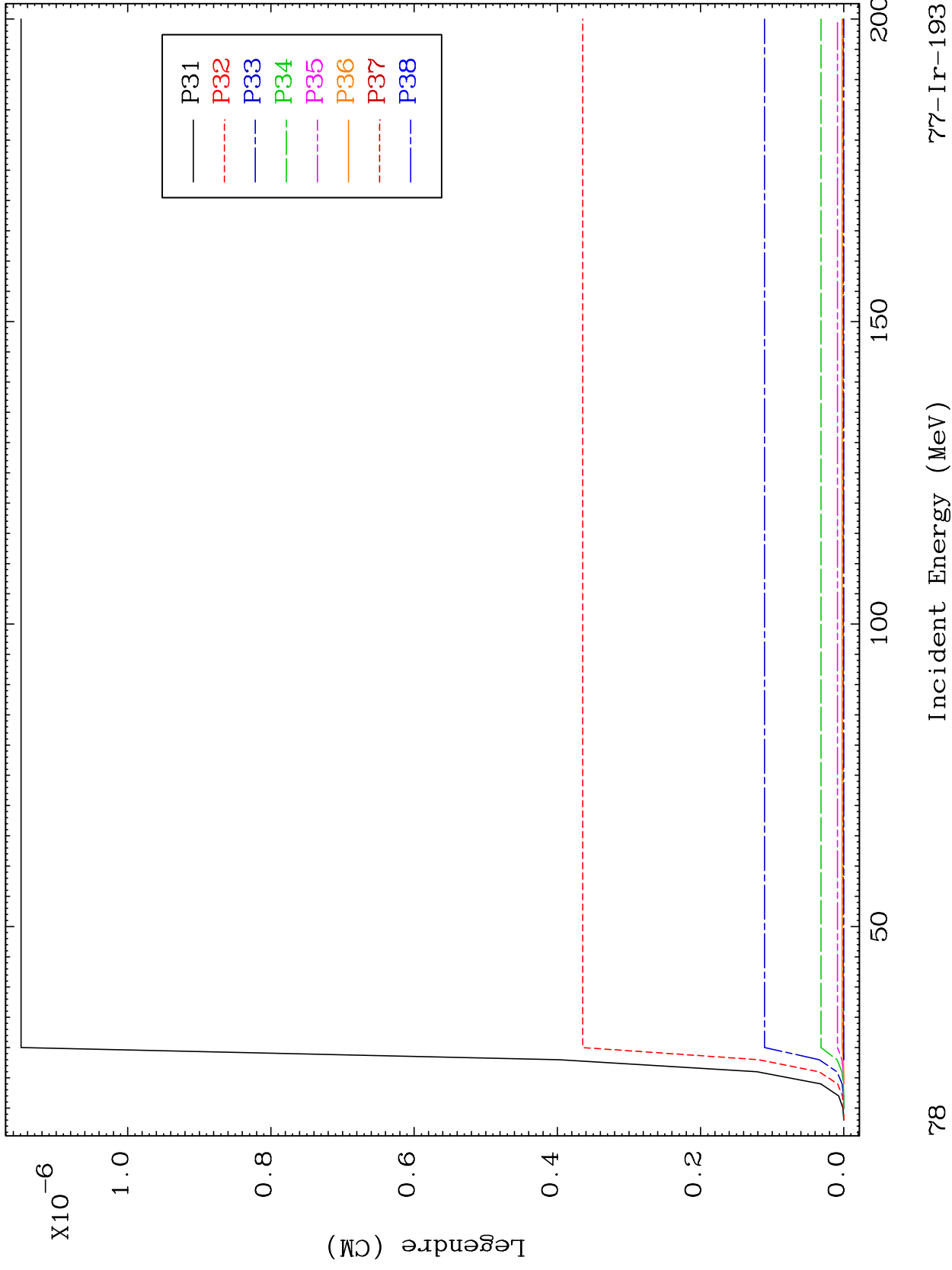


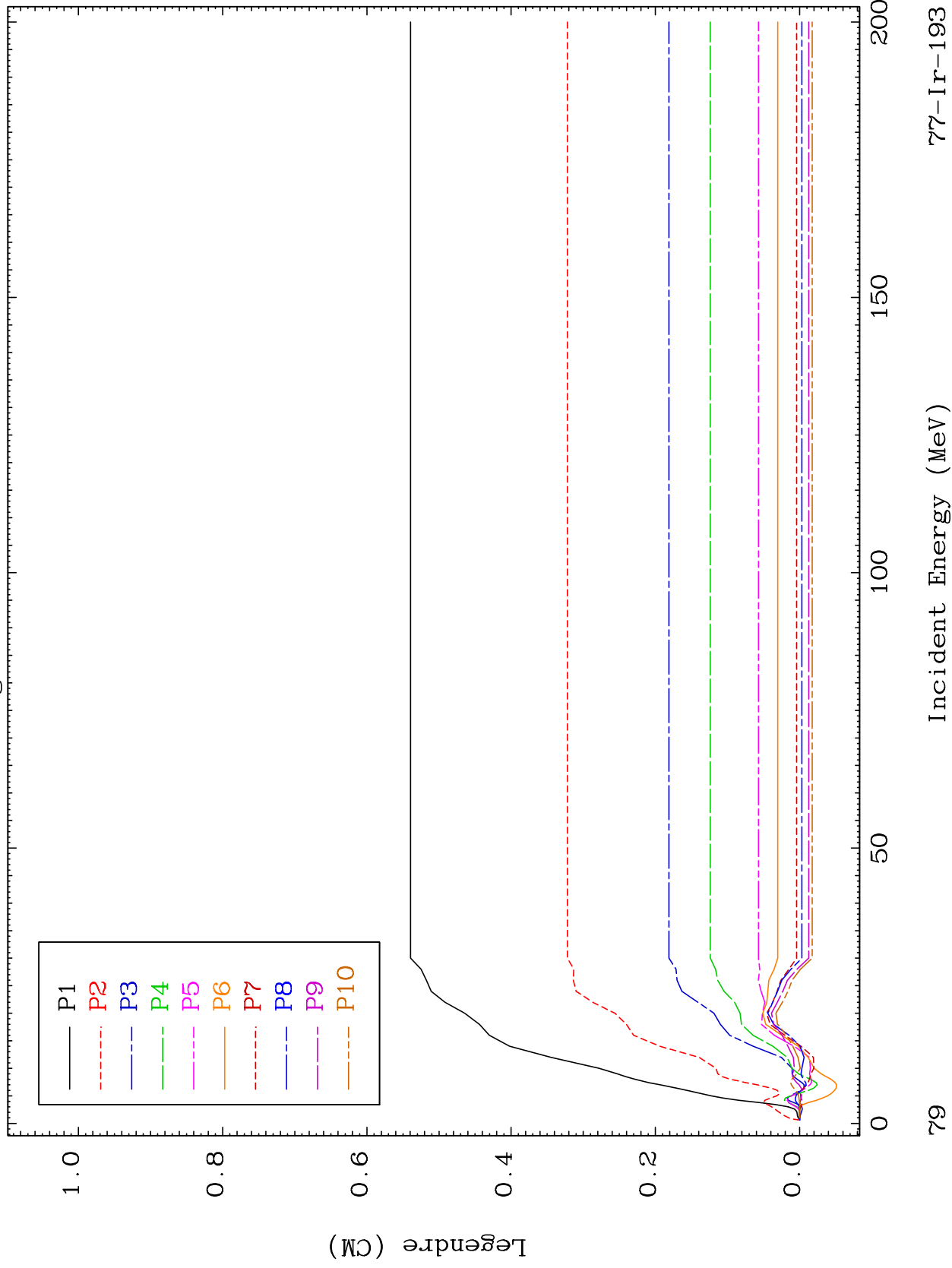
76

Incident Energy (MeV)

77-Ir-193



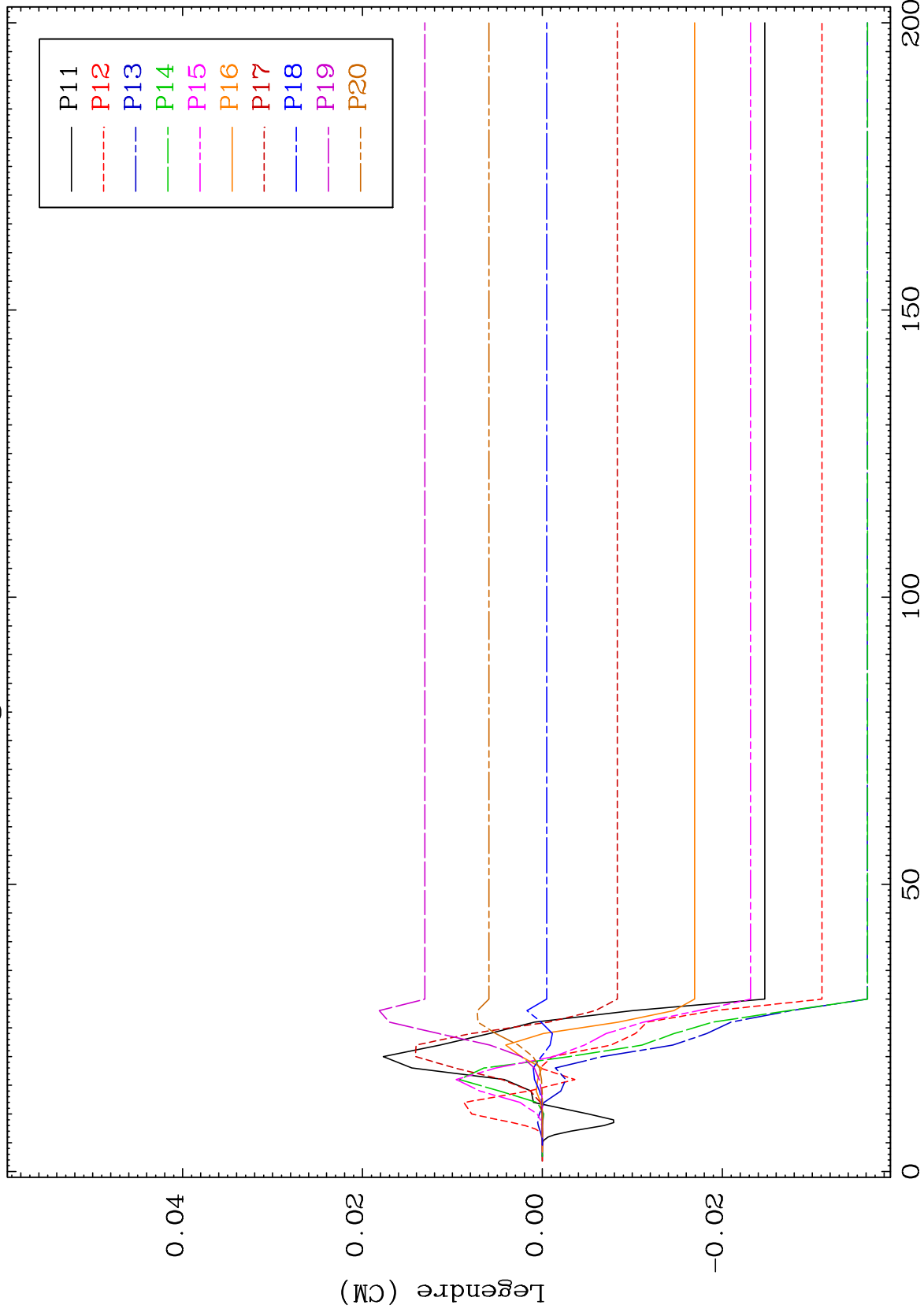




MAT 7731

598.2 keV (n,n') Level
Legendre Coefficients

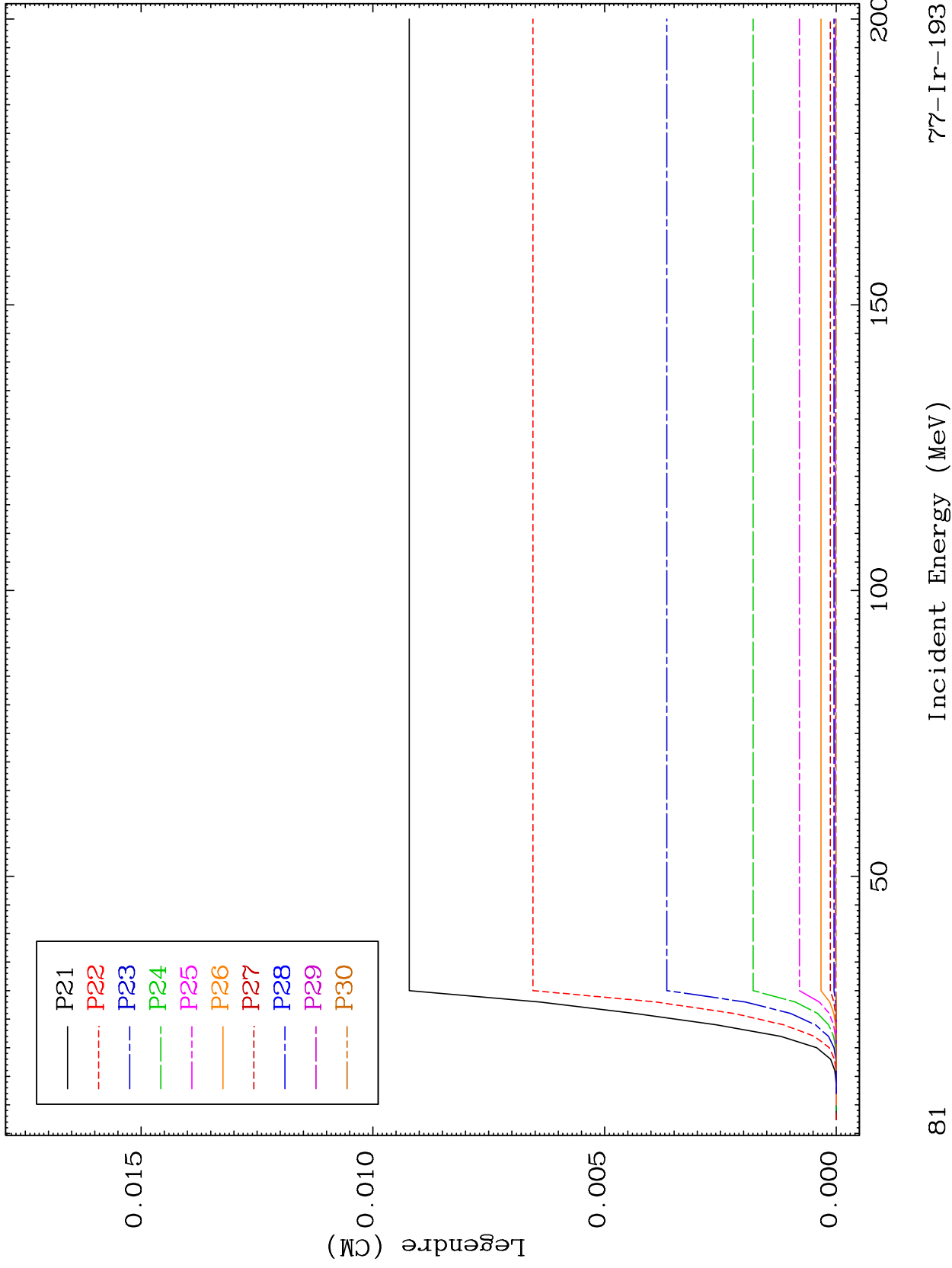
77-Ir-193



80

Incident Energy (MeV)

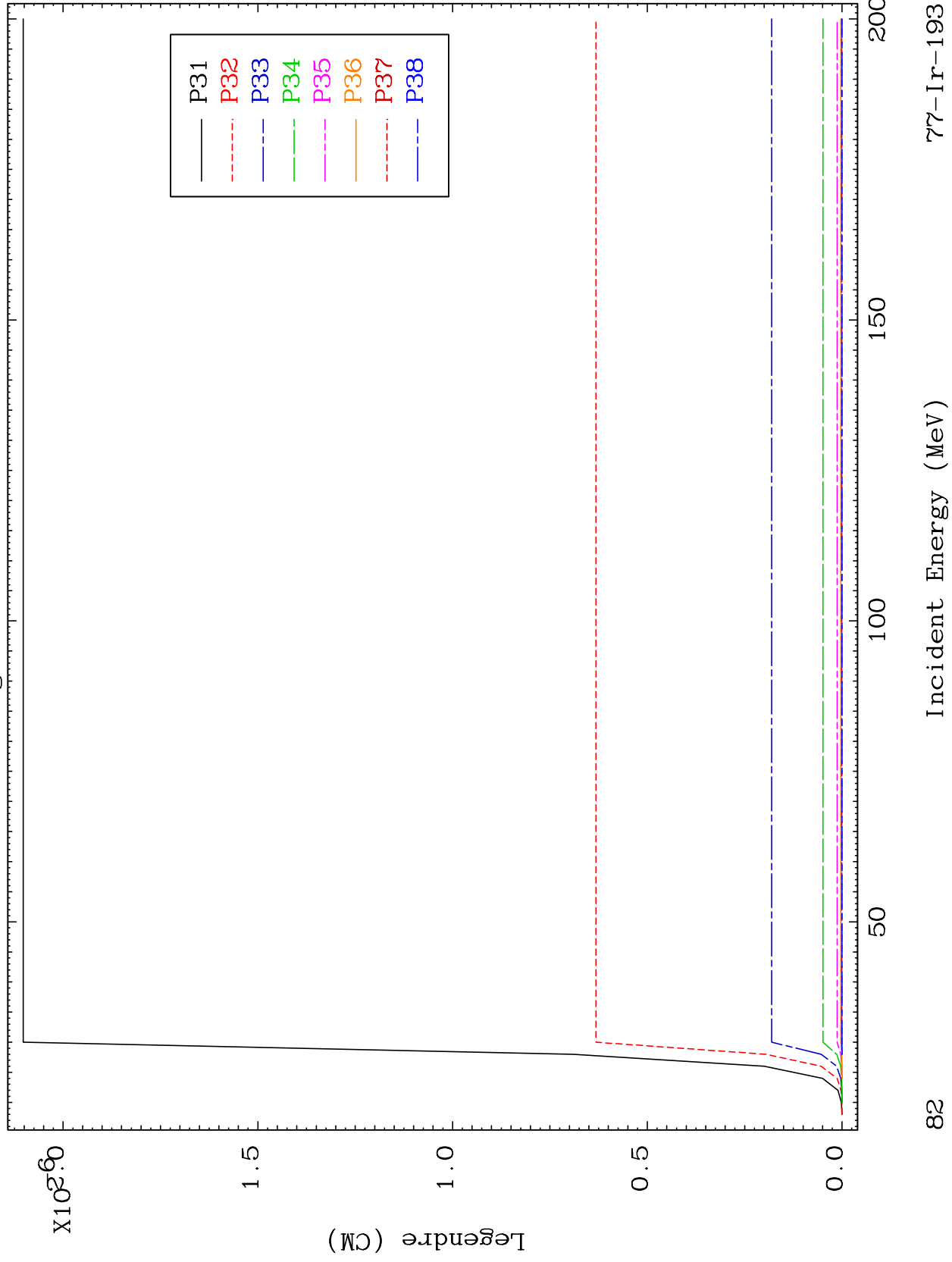
77-Ir-193



MAT 7731

598.2 keV (n,n') Level
Legendre Coefficients

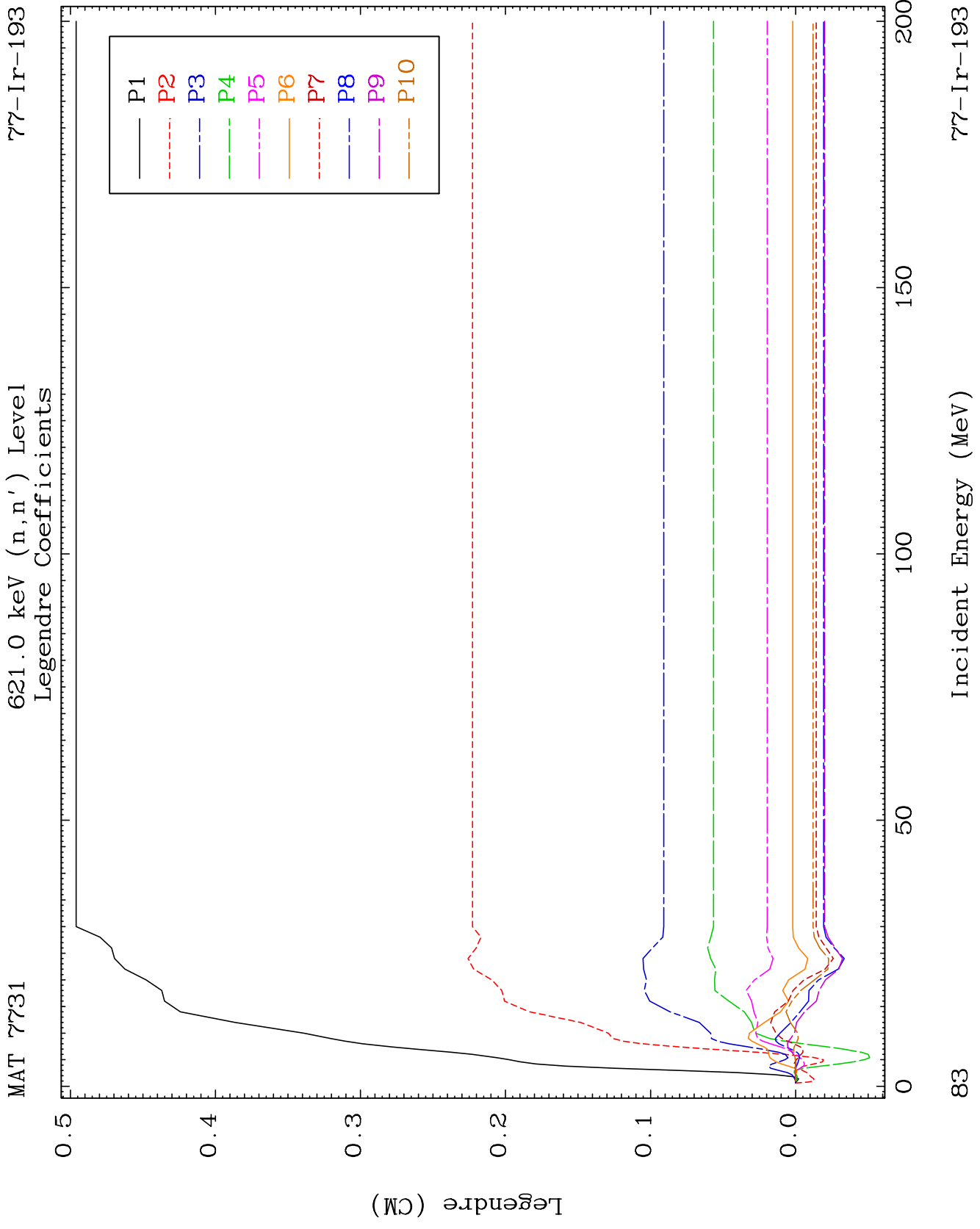
77-Ir-193



82

Incident Energy (MeV)

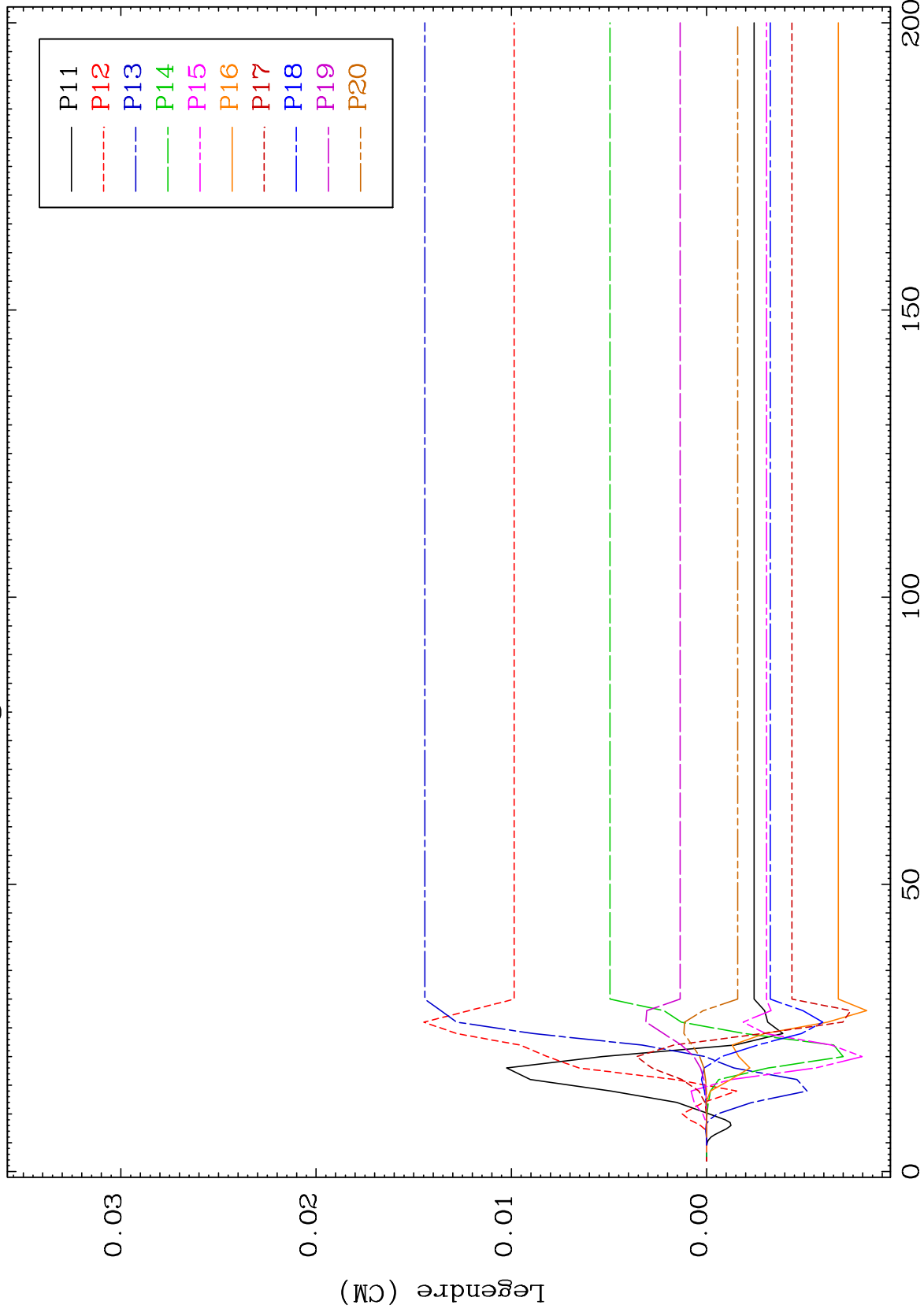
77-Ir-193



MAT 7731

621.0 keV (n,n') Level
Legendre Coefficients

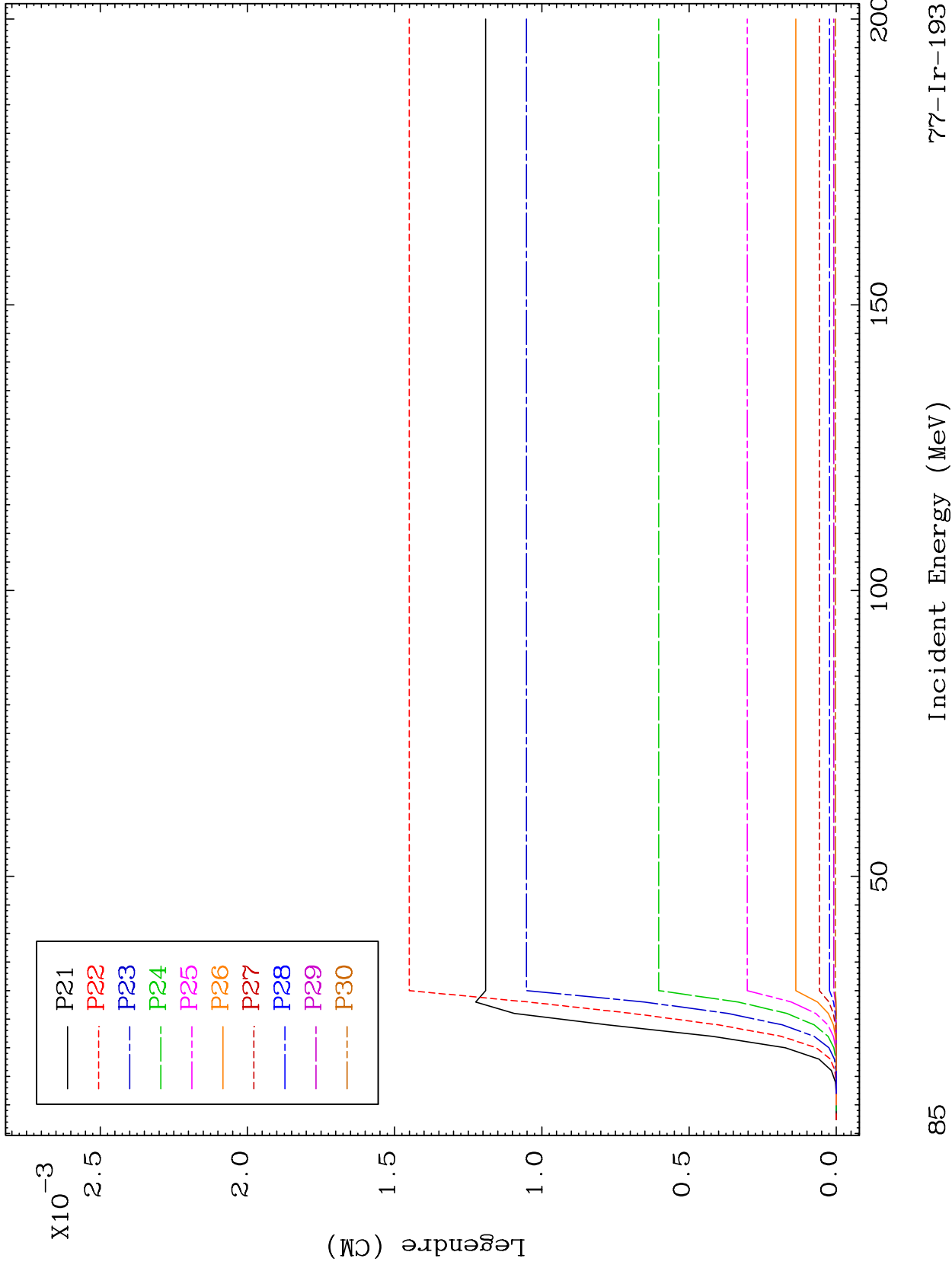
77-Ir-193

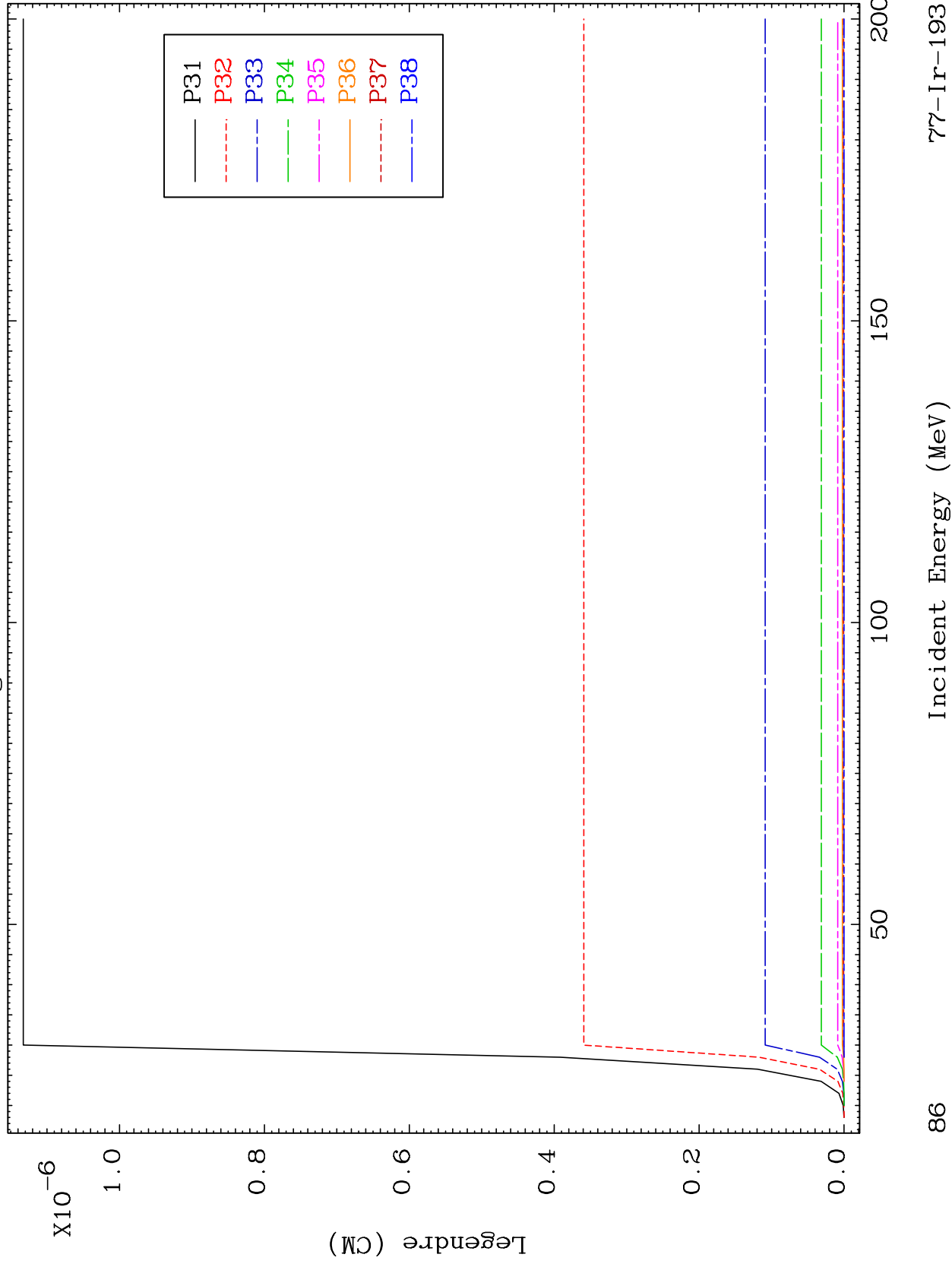


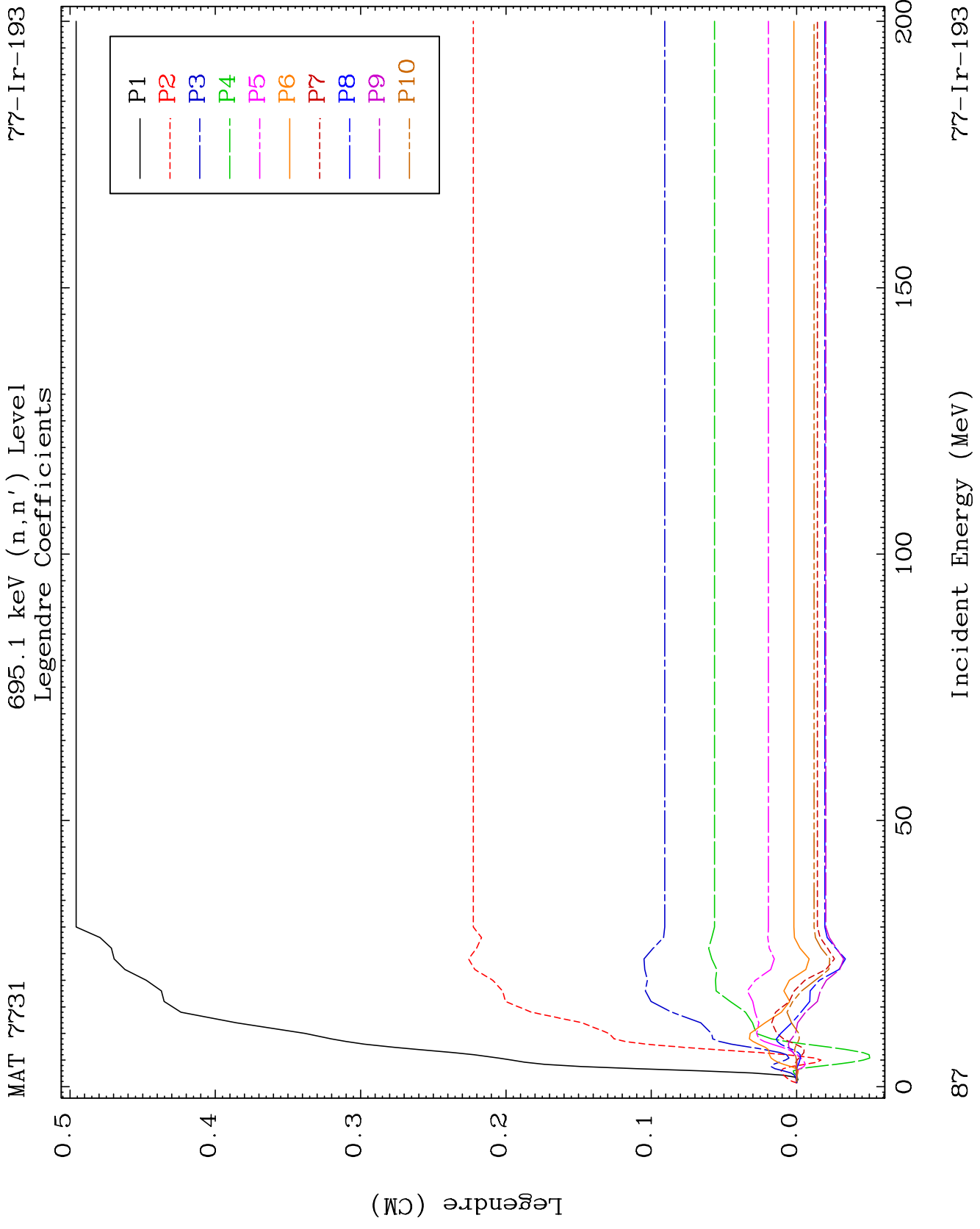
84

Incident Energy (MeV)

77-Ir-193



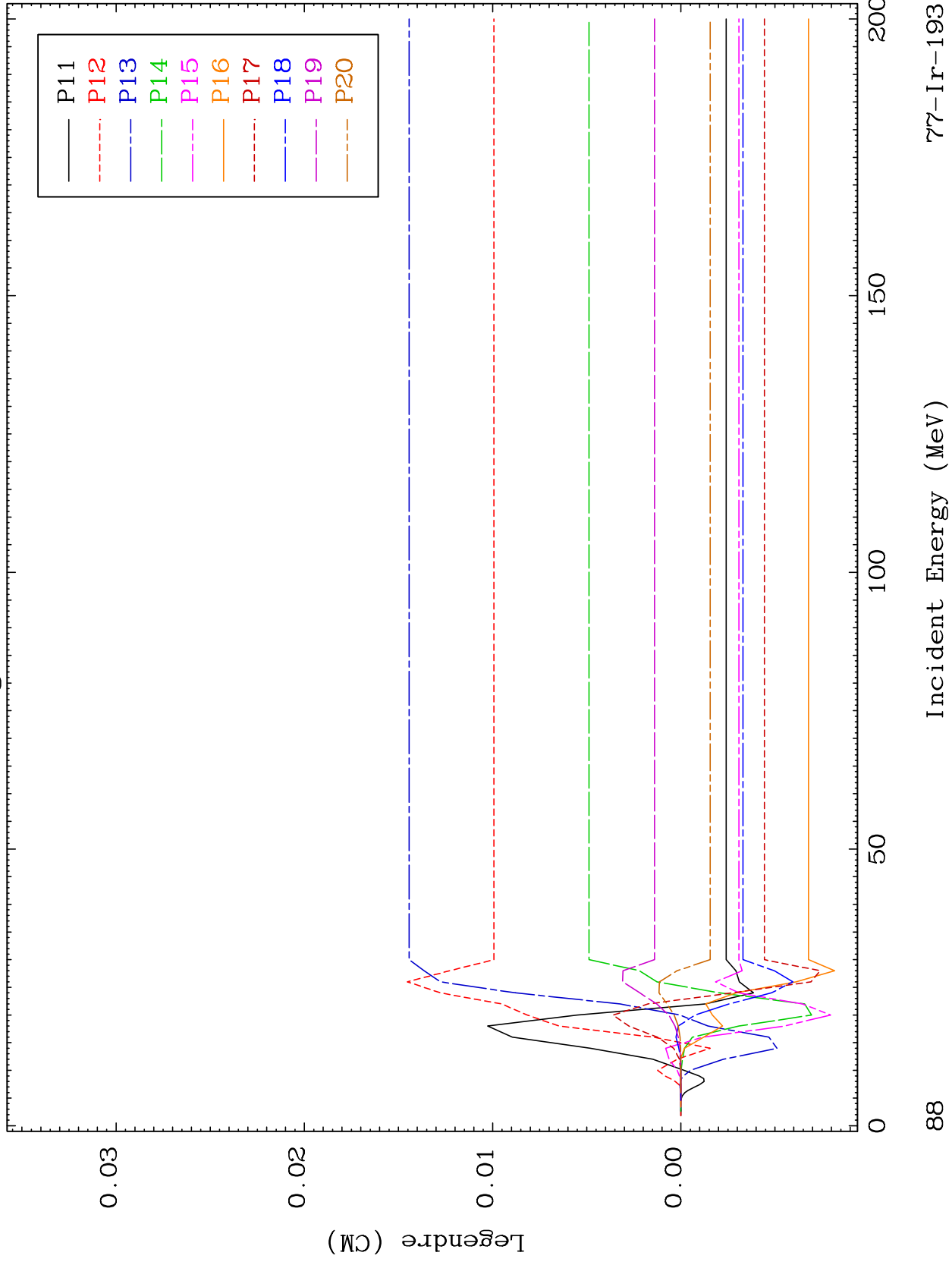




MAT 7731

695.1 keV (n,n') Level
Legendre Coefficients

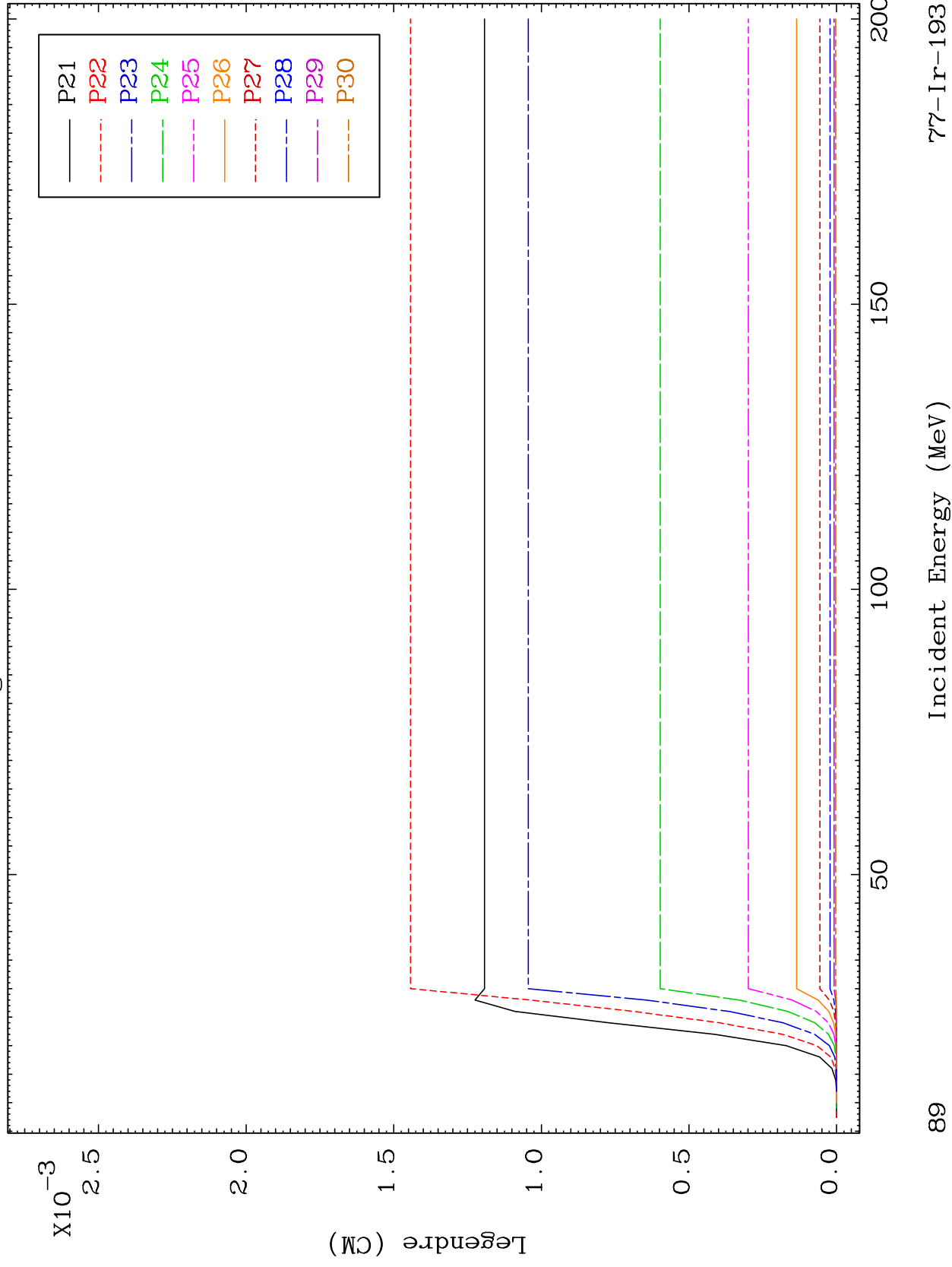
77-Ir-193



88

Incident Energy (MeV)

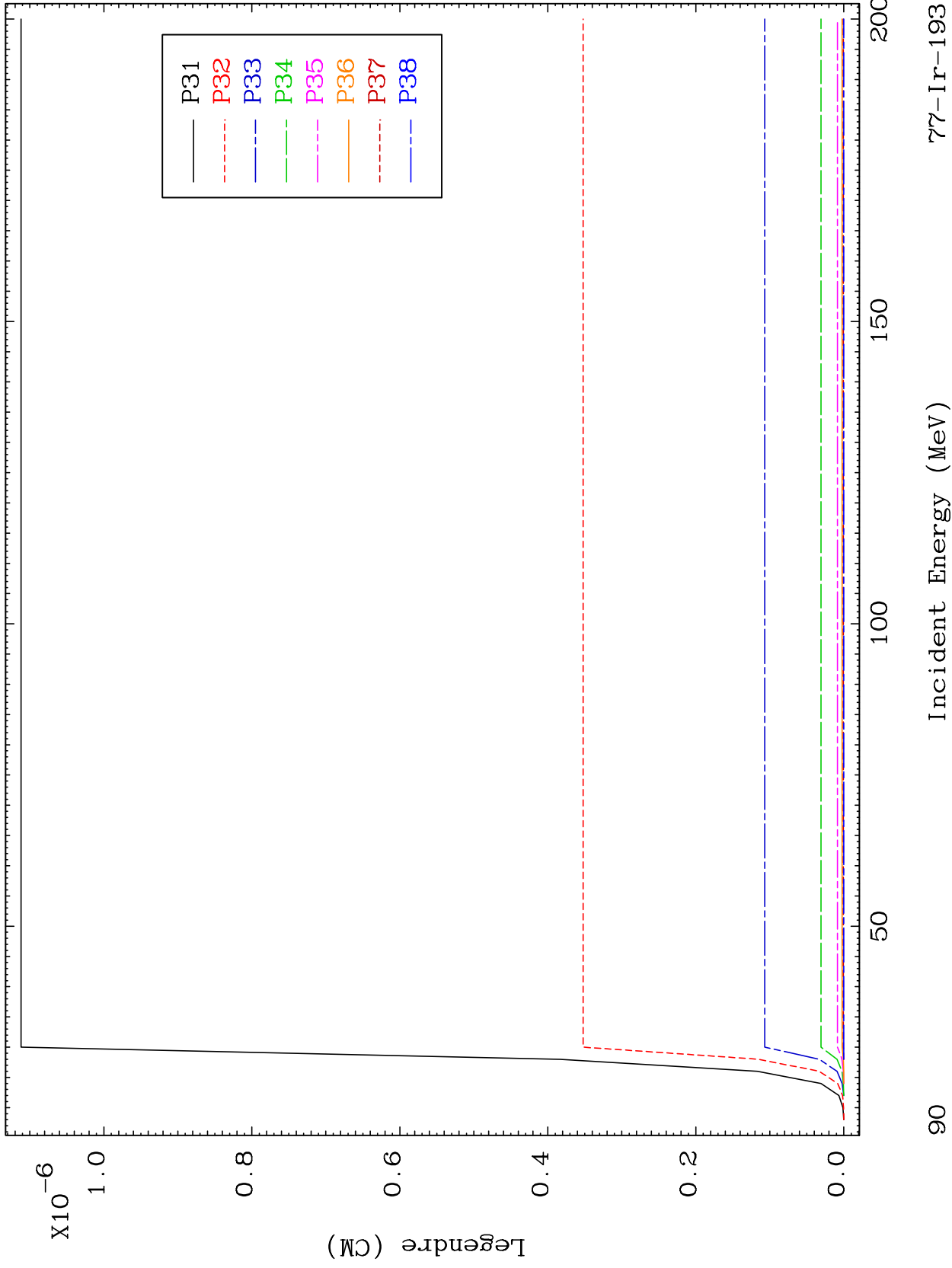
77-Ir-193



MAT 7731

695.1 keV (n,n') Level
Legendre Coefficients

77-Ir-193



90

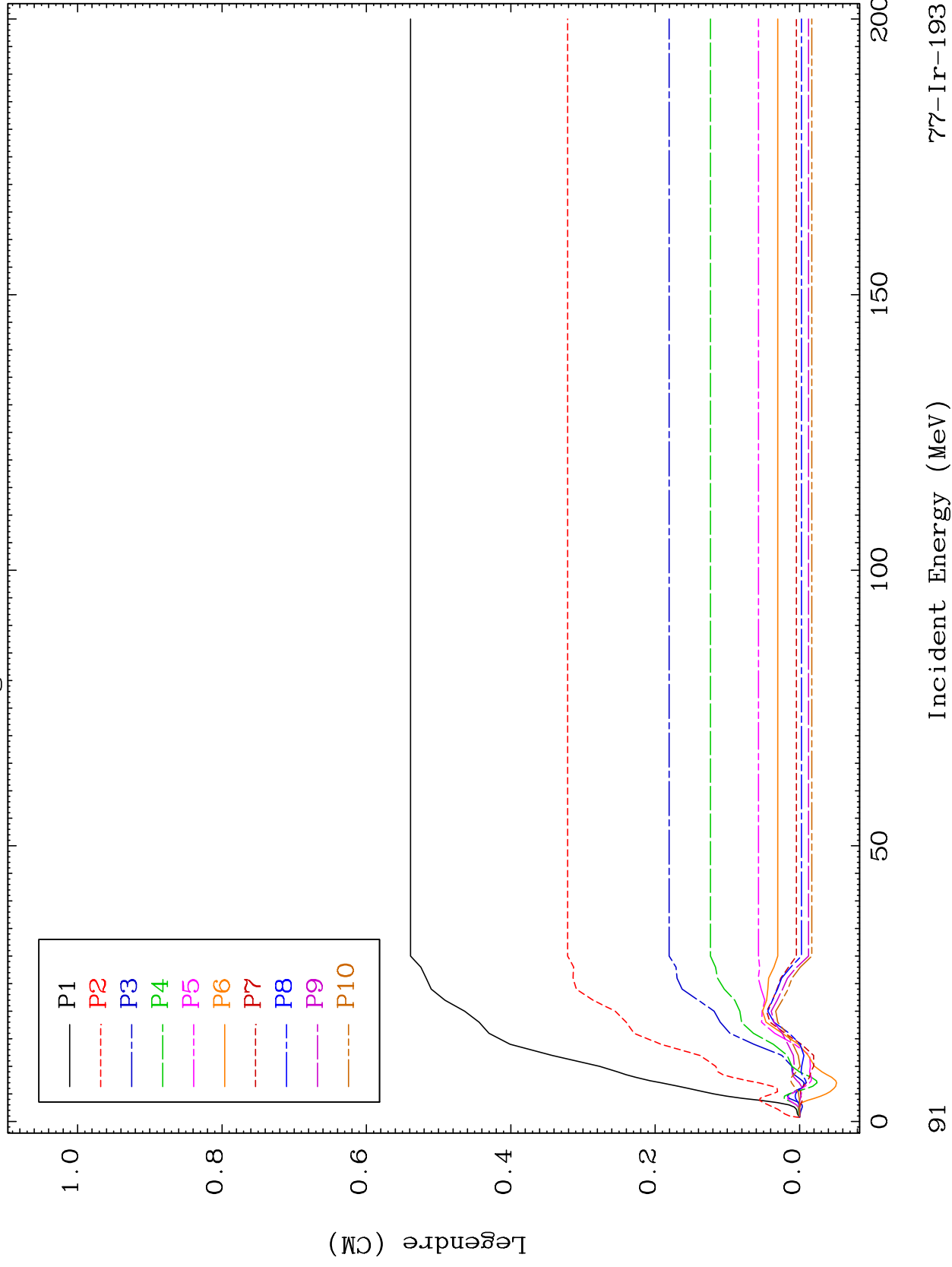
Incident Energy (MeV)

77-Ir-193

MAT 7731

712.2 keV (n,n') Level
Legendre Coefficients

77-Ir-193



77-Ir-193

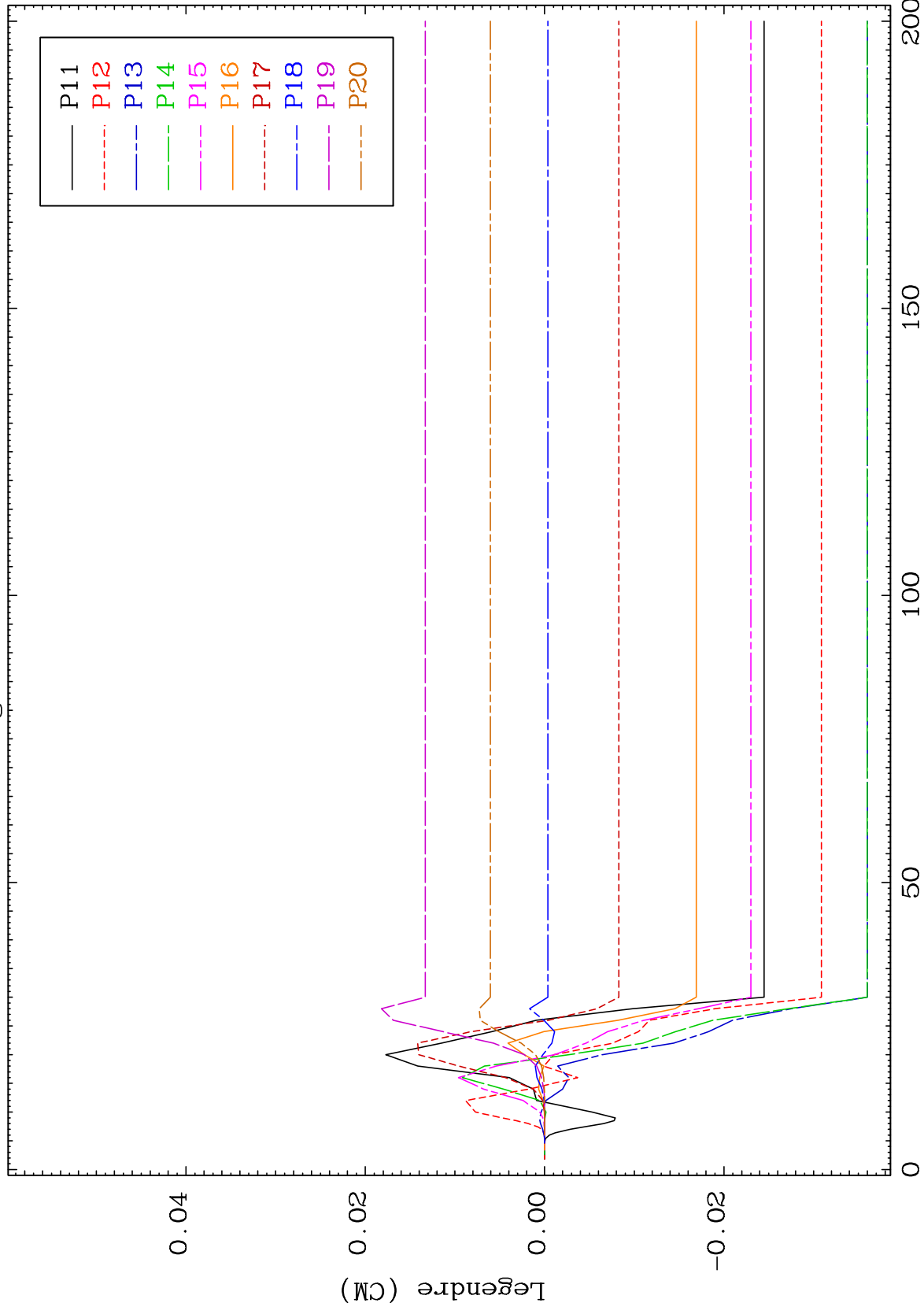
Incident Energy (MeV)

91

MAT 7731

712.2 keV (n,n') Level
Legendre Coefficients

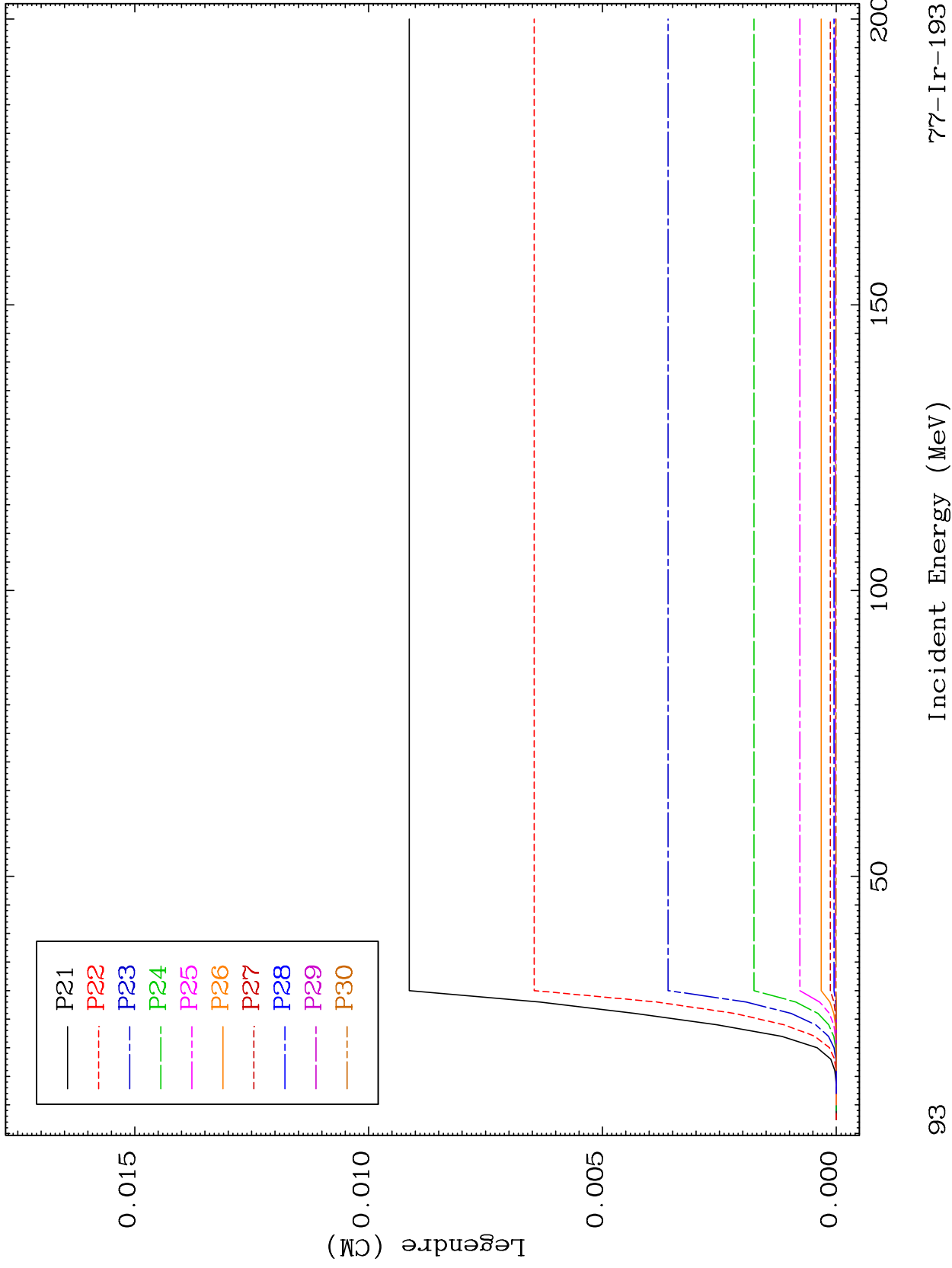
77-Ir-193



92

Incident Energy (MeV)

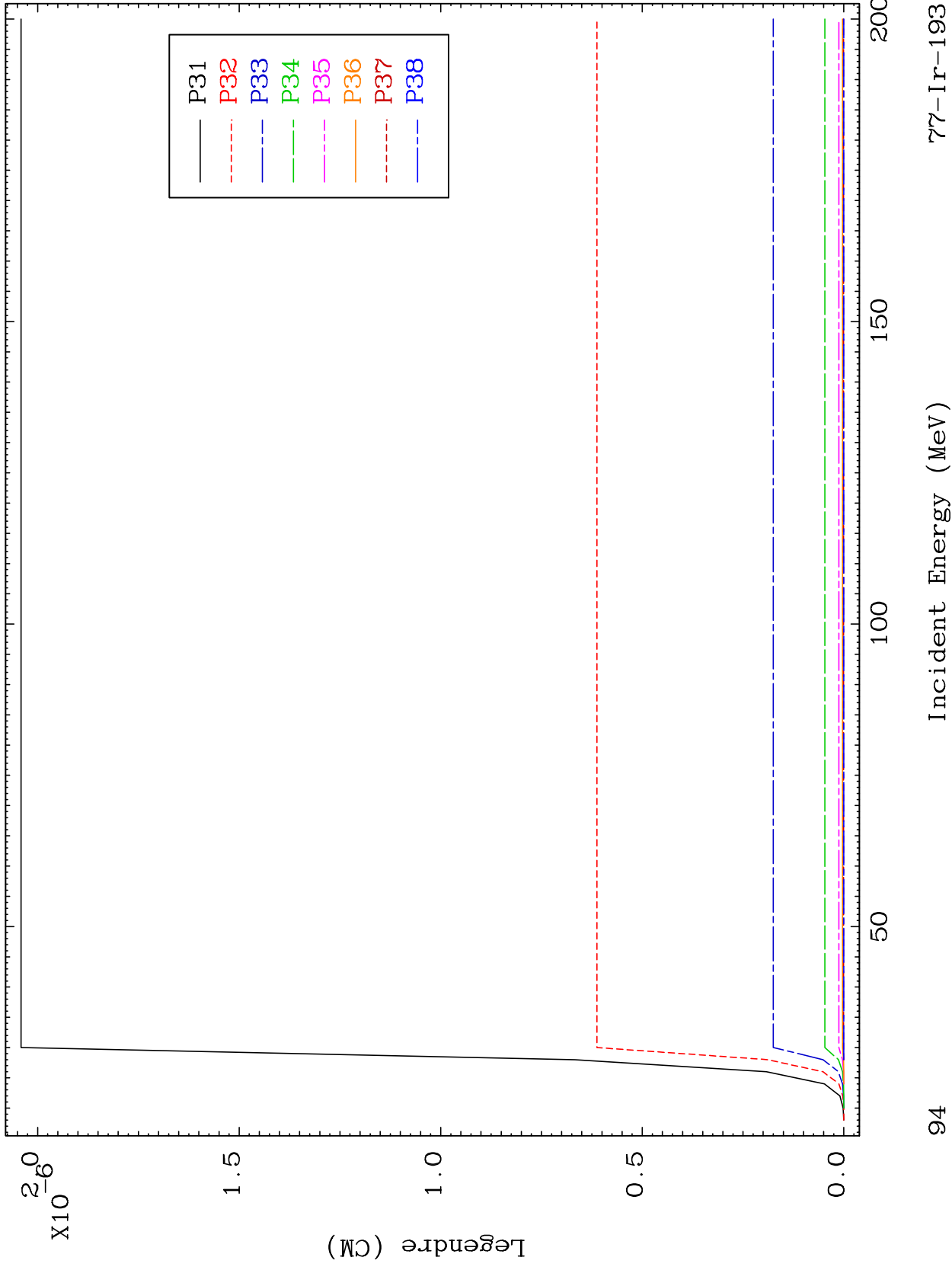
77-Ir-193



MAT 7731

712.2 keV (n,n') Level
Legendre Coefficients

77-Ir-193

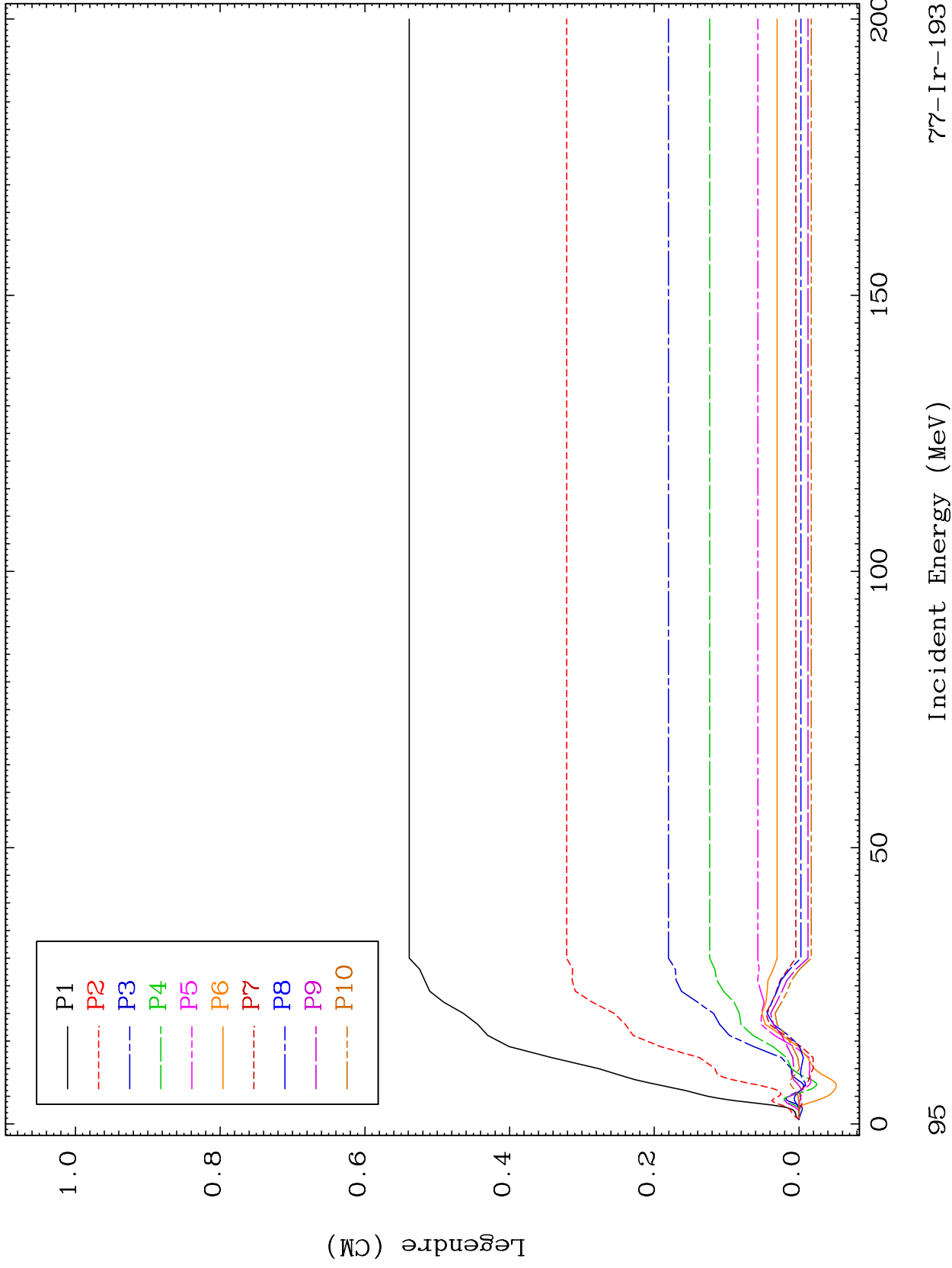


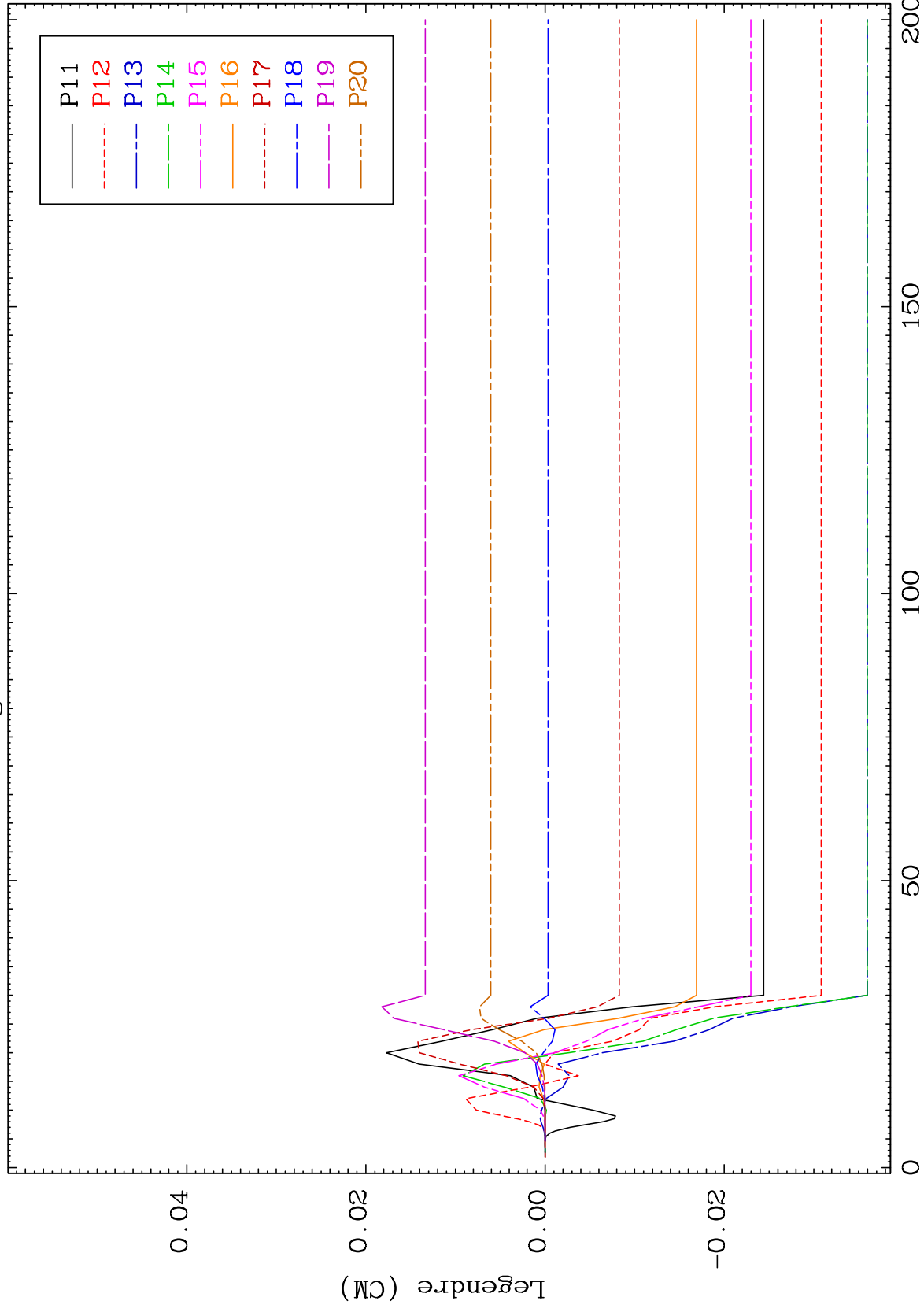
94

MAT 7731

740.4 keV (n,n') Level
Legendre Coefficients

77-Ir-193

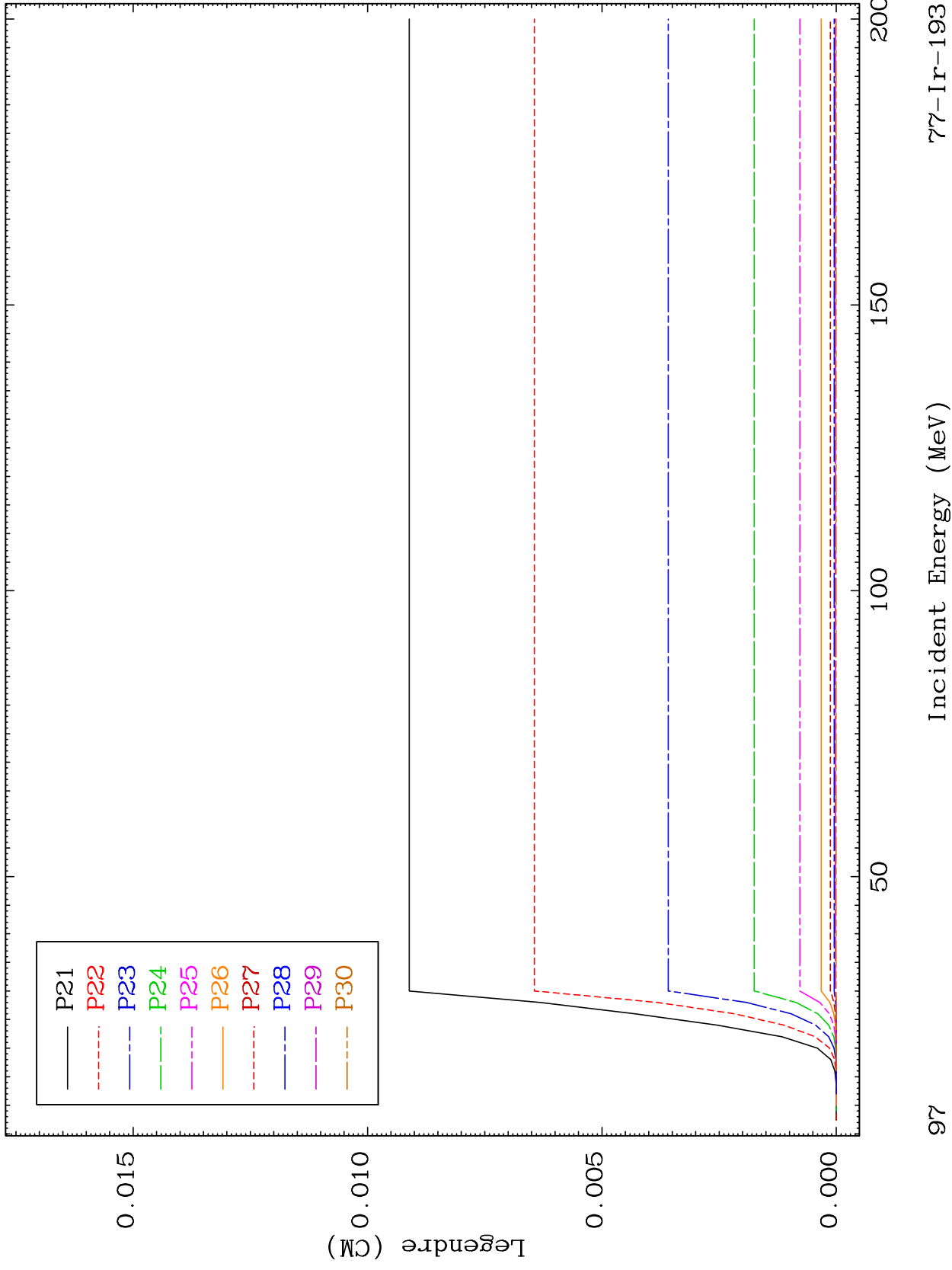




MAT 7731

740.4 keV (n,n') Level
Legendre Coefficients

77-Ir-193



97

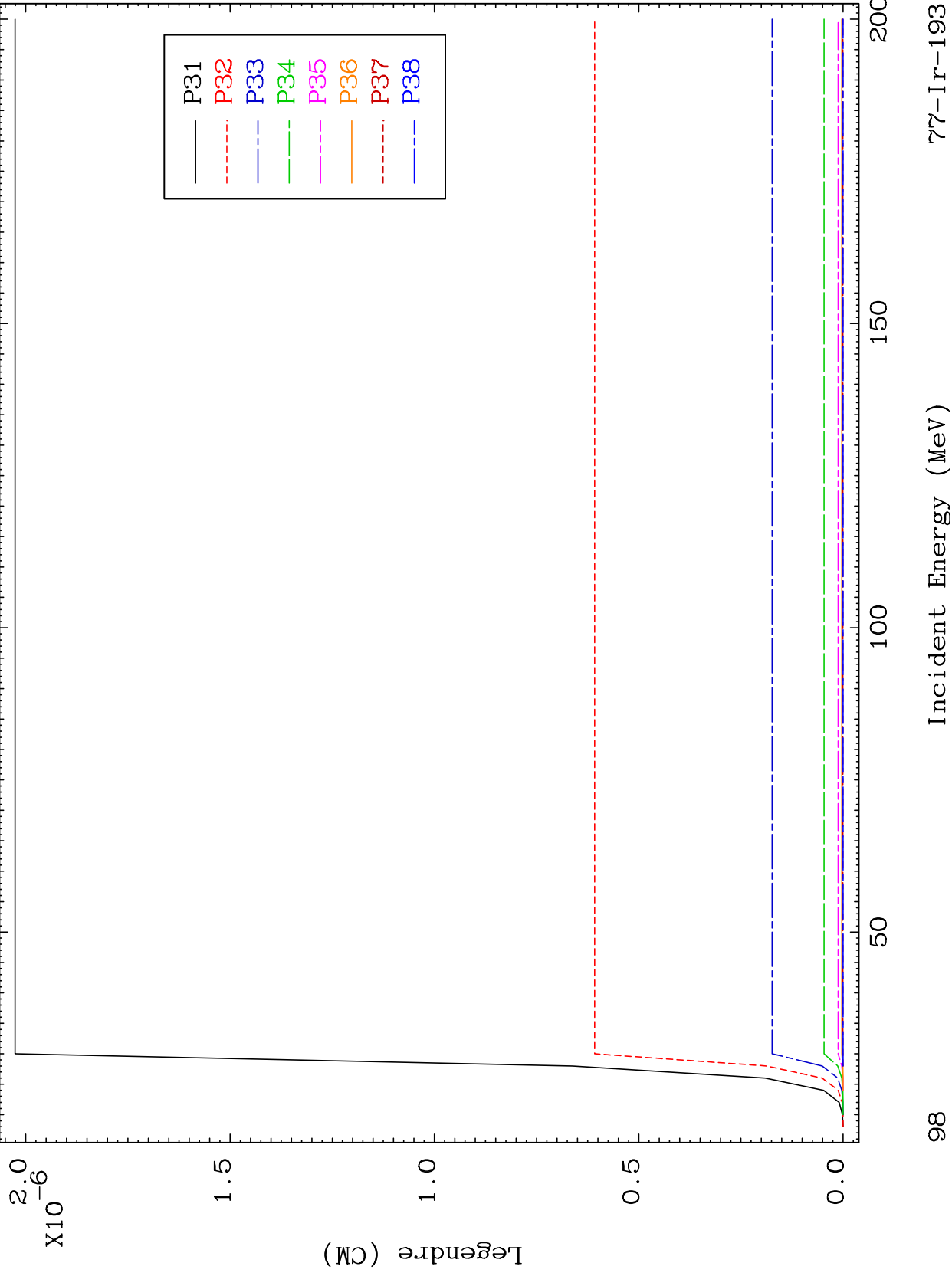
Incident Energy (MeV)

77-Ir-193

MAT 7731

740.4 keV (n,n') Level
Legendre Coefficients

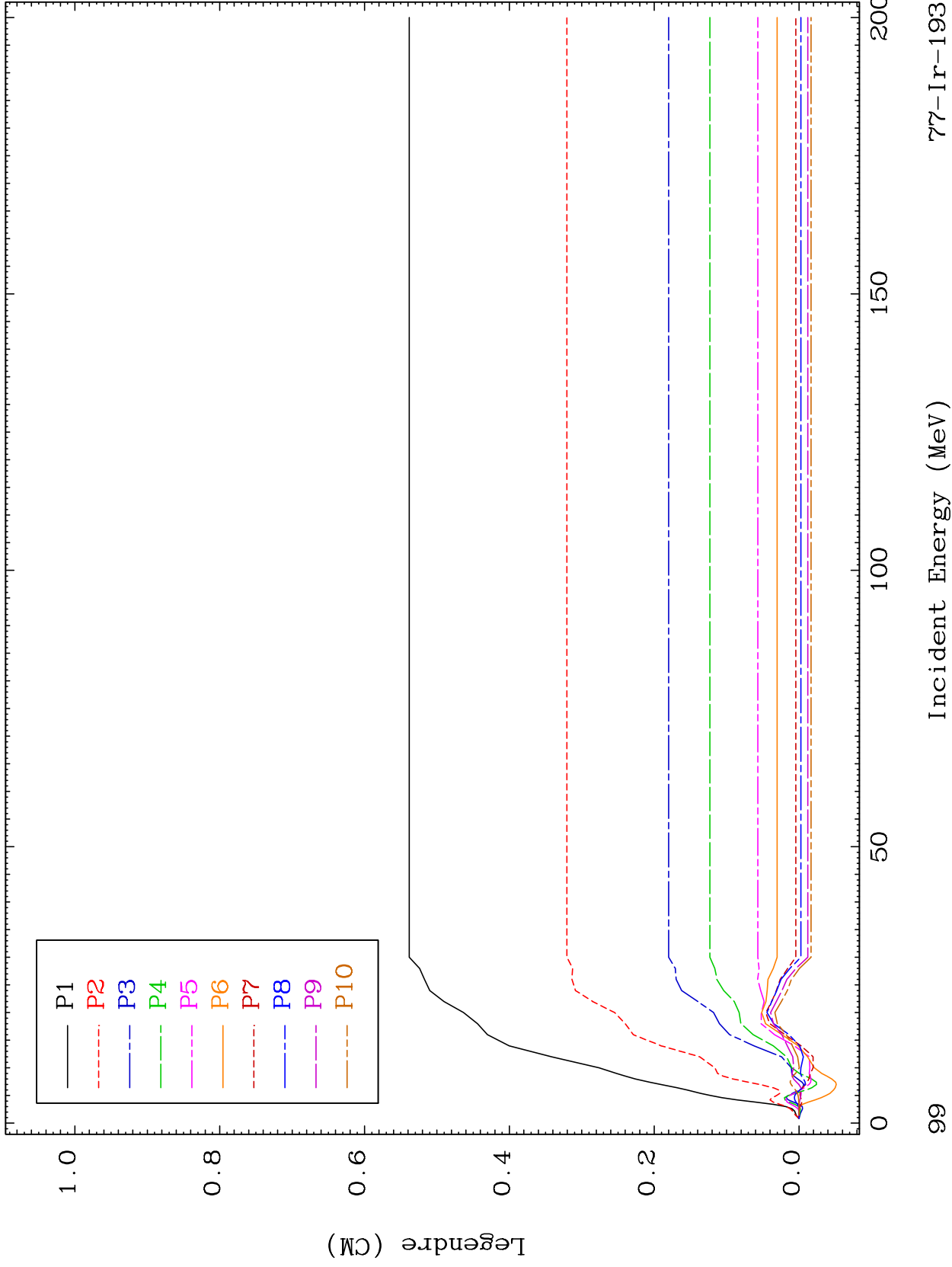
77-Ir-193

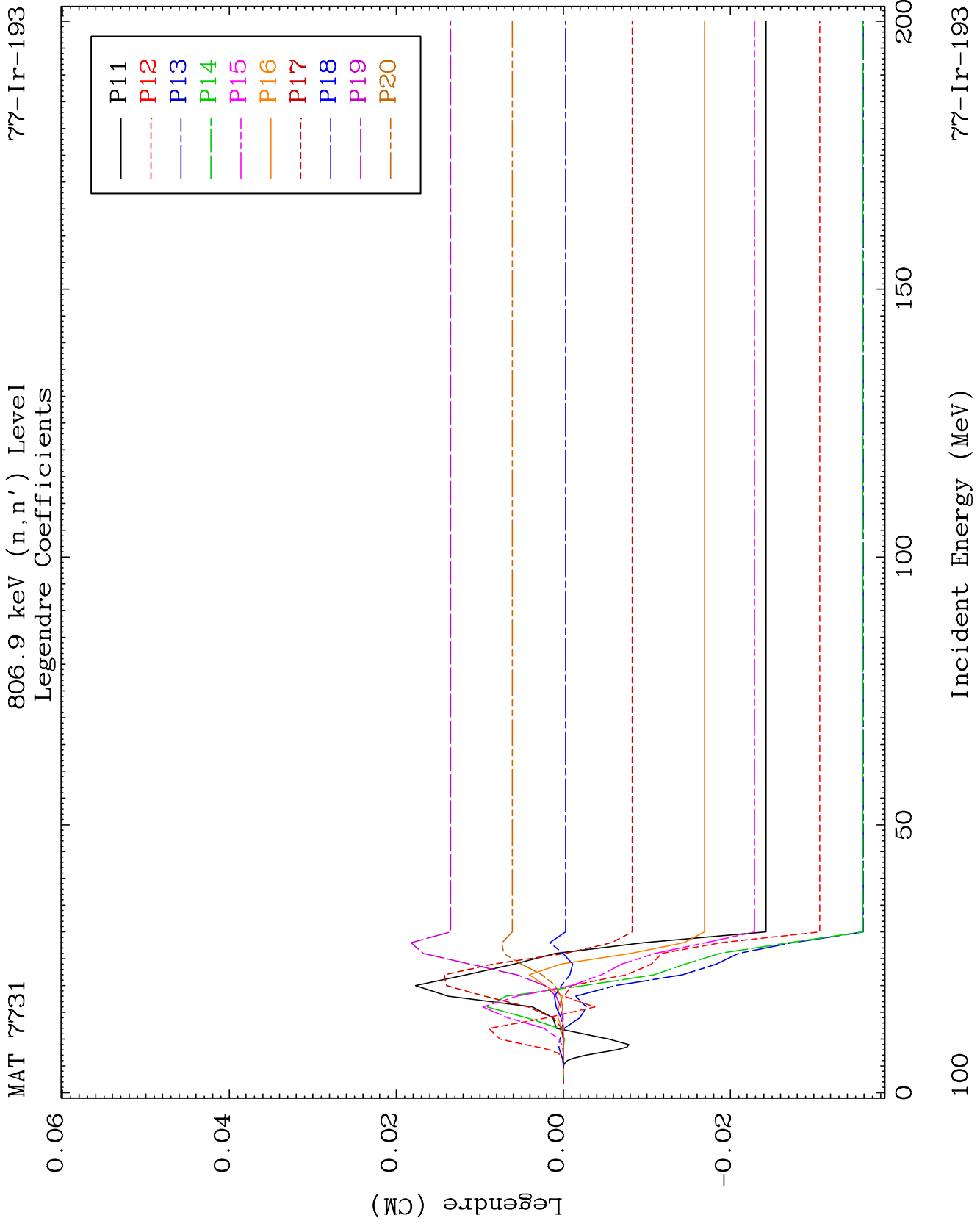


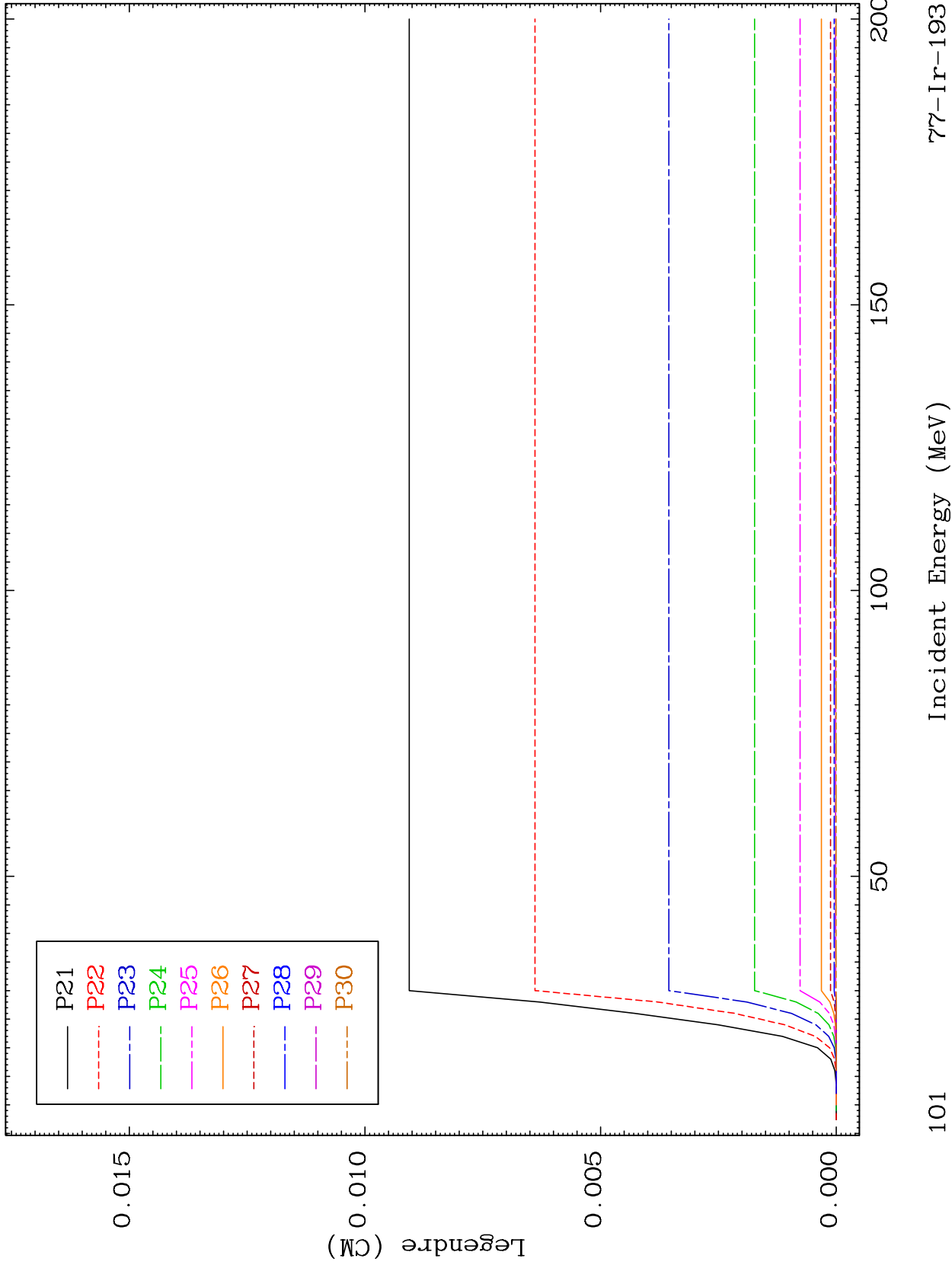
98

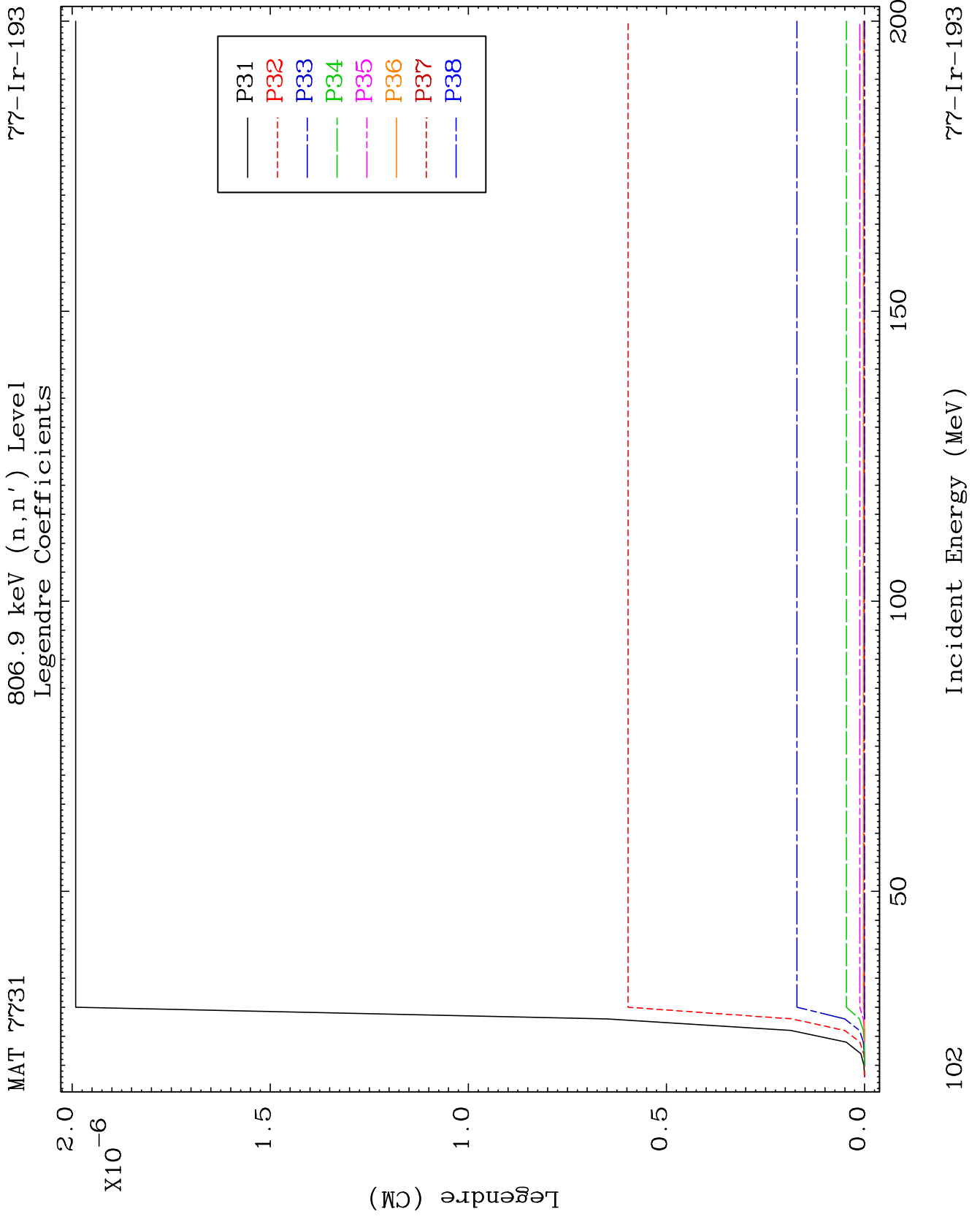
Incident Energy (MeV)

77-Ir-193





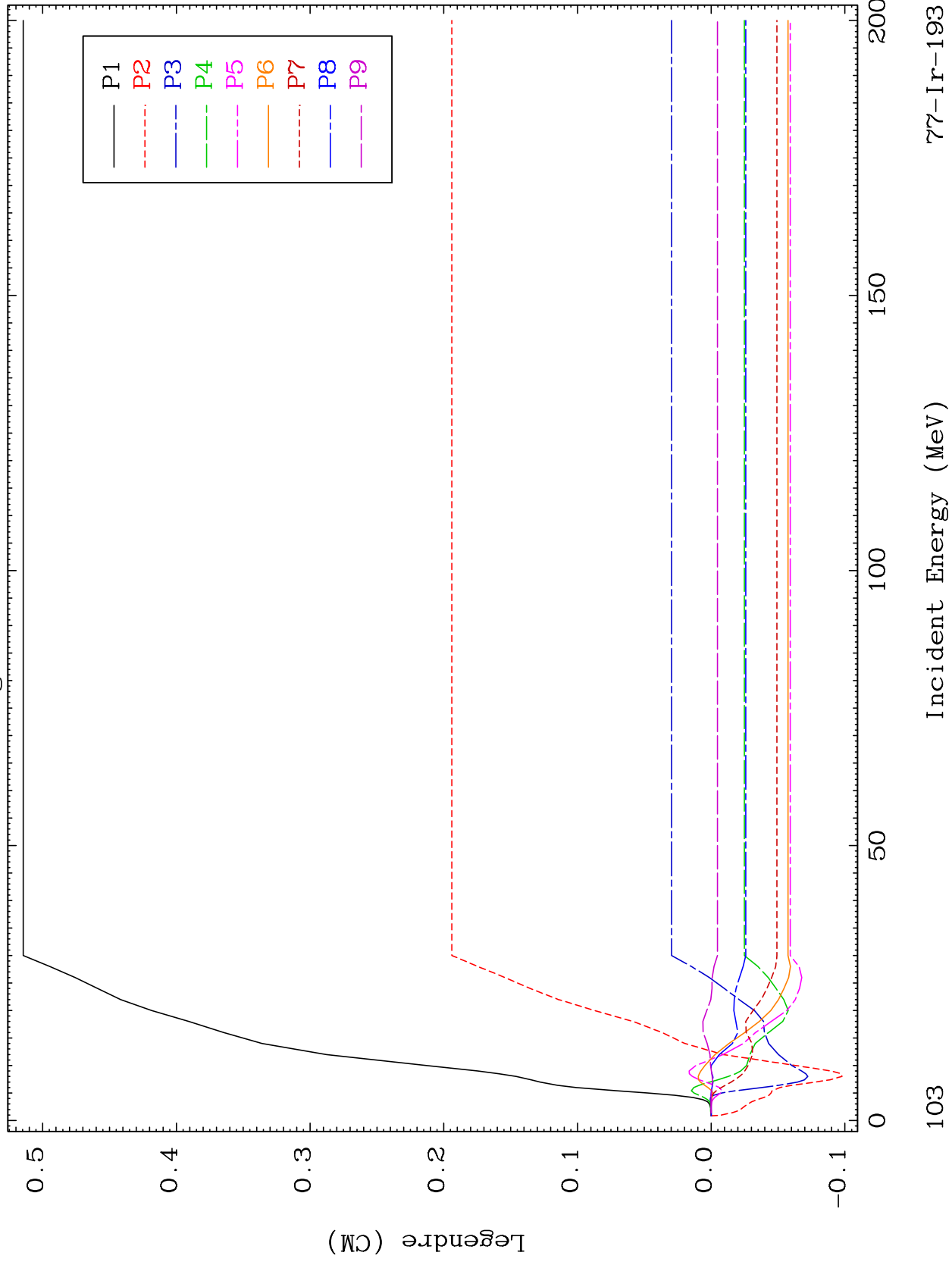




MAT 7731

828.9 keV (n,n') Level
Legendre Coefficients

77-Ir-193



77-Ir-193

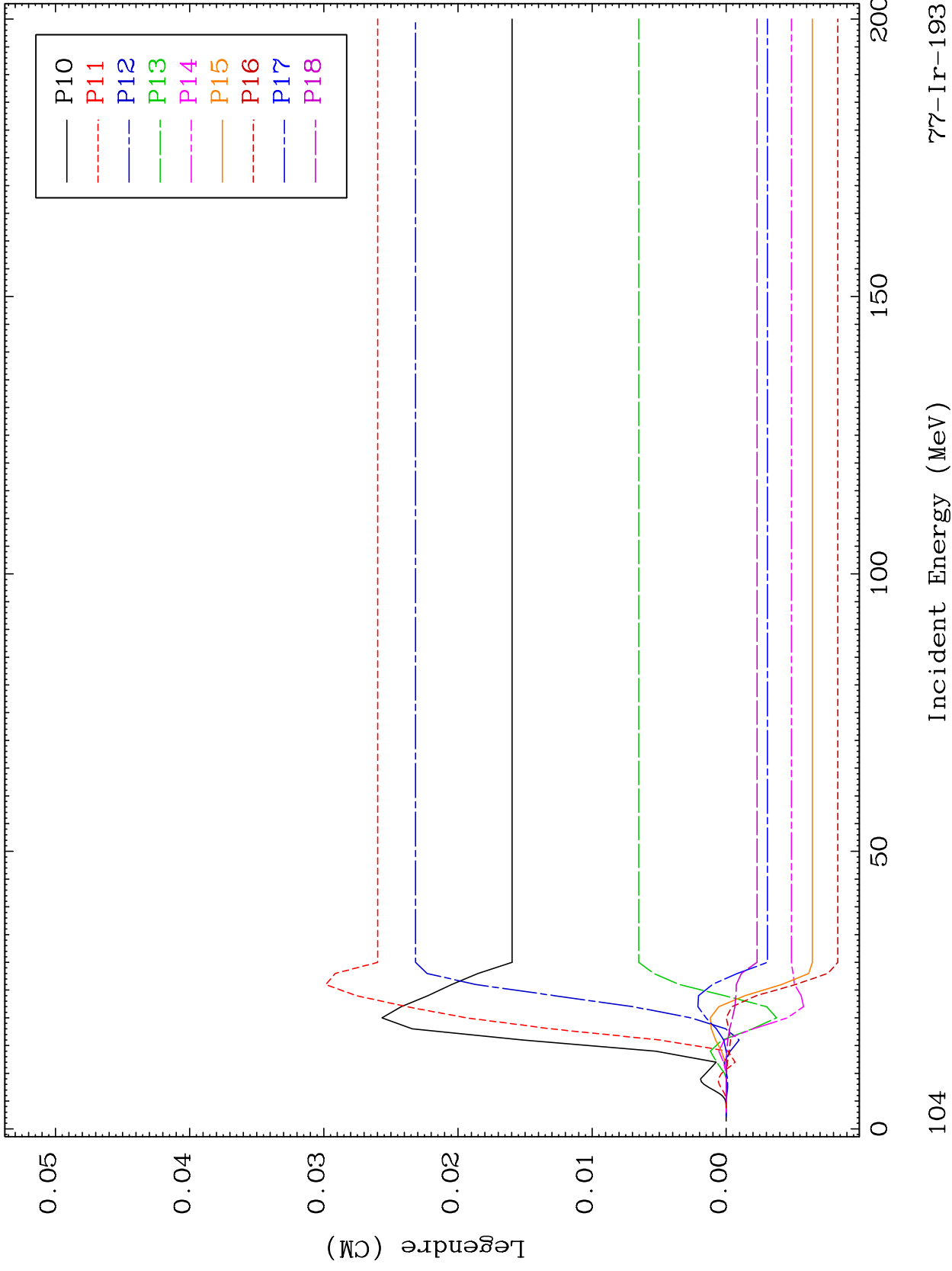
Incident Energy (MeV)

103

MAT 7731

828.9 keV (n,n') Level
Legendre Coefficients

77-Ir-193



104

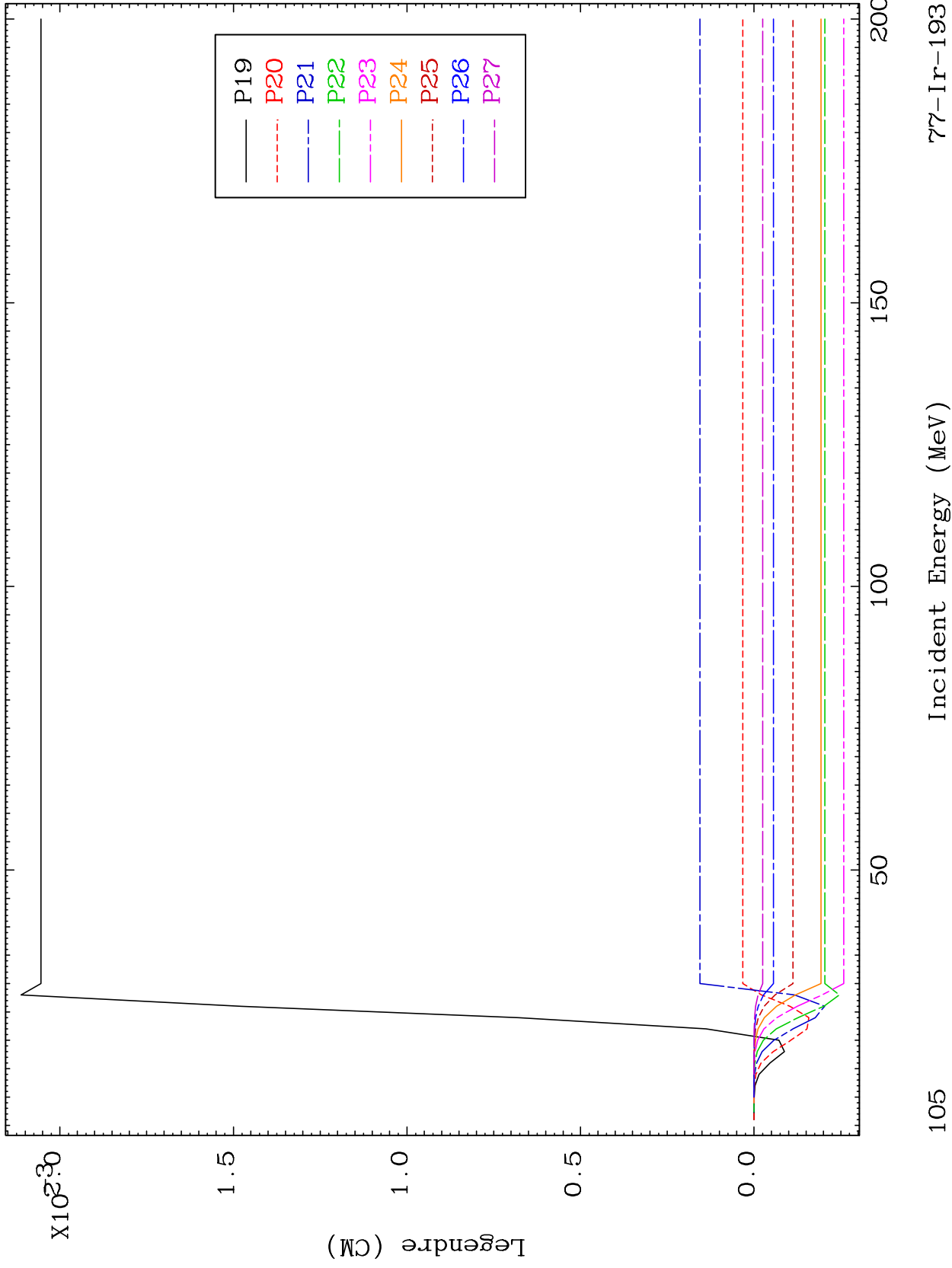
Incident Energy (MeV)

77-Ir-193

MAT 7731

828.9 keV (n, n') Level
Legendre Coefficients

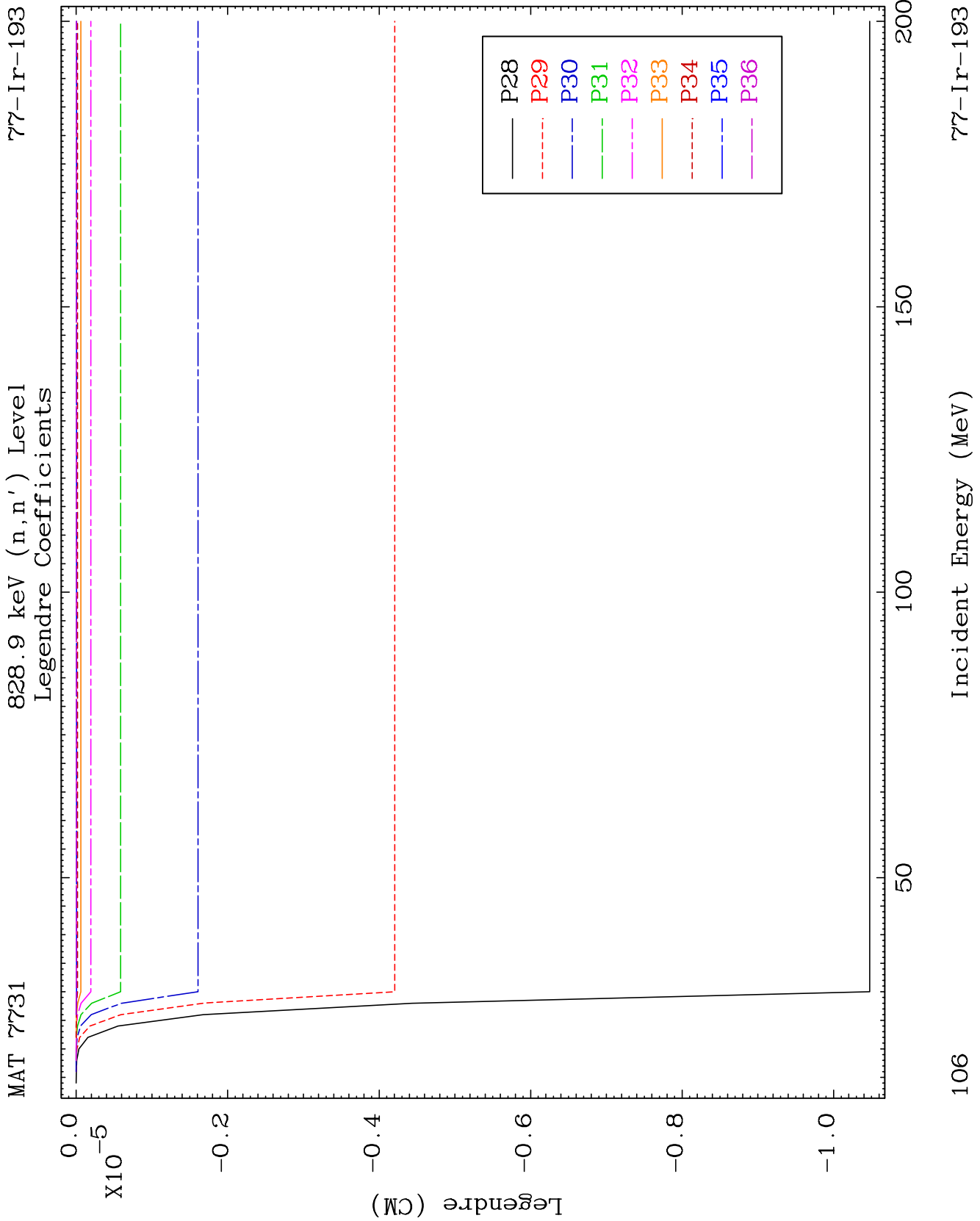
77-Ir-193

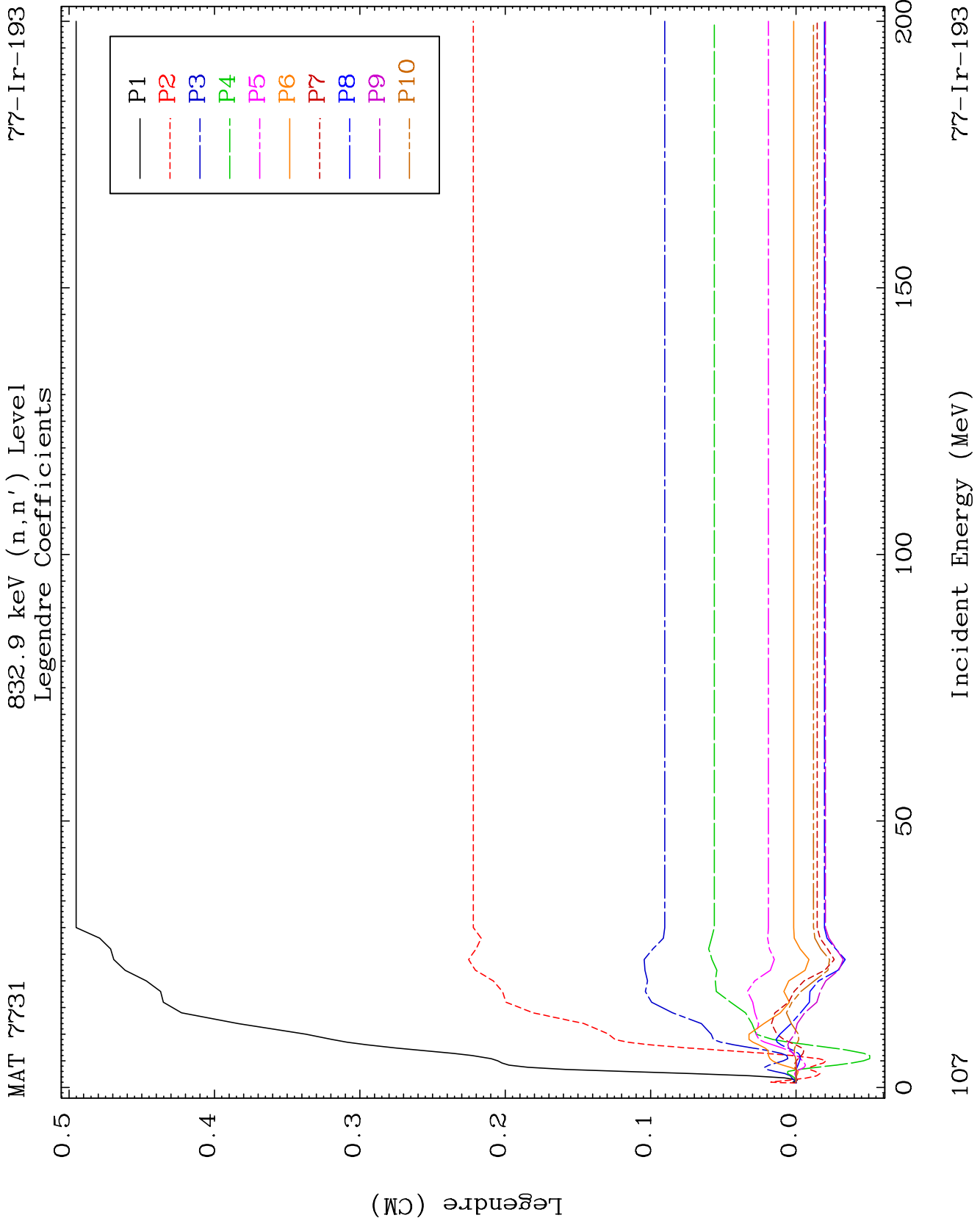


77-Ir-193

Incident Energy (MeV)

105

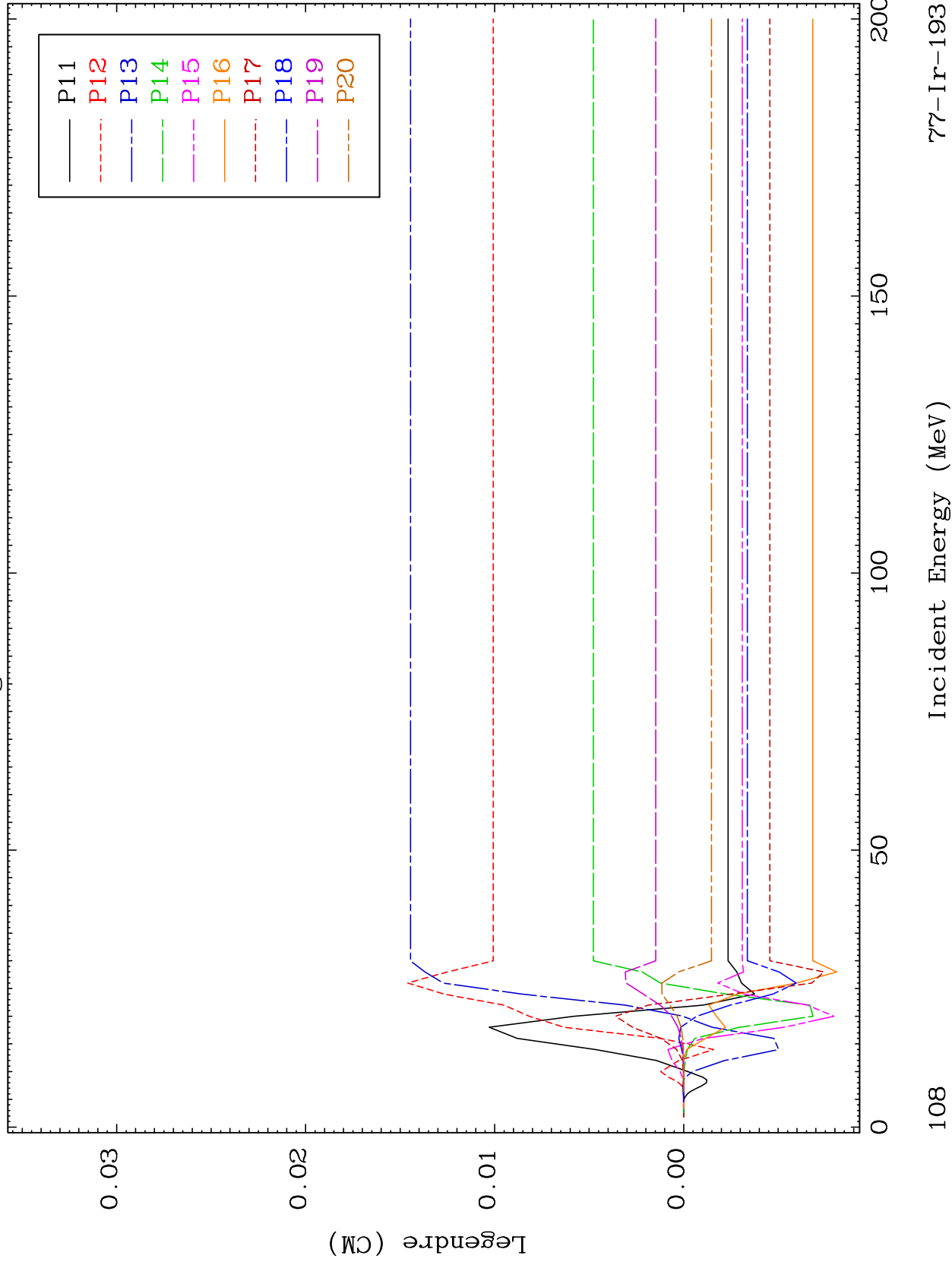




MAT 7731

832.9 keV (n,n') Level
Legendre Coefficients

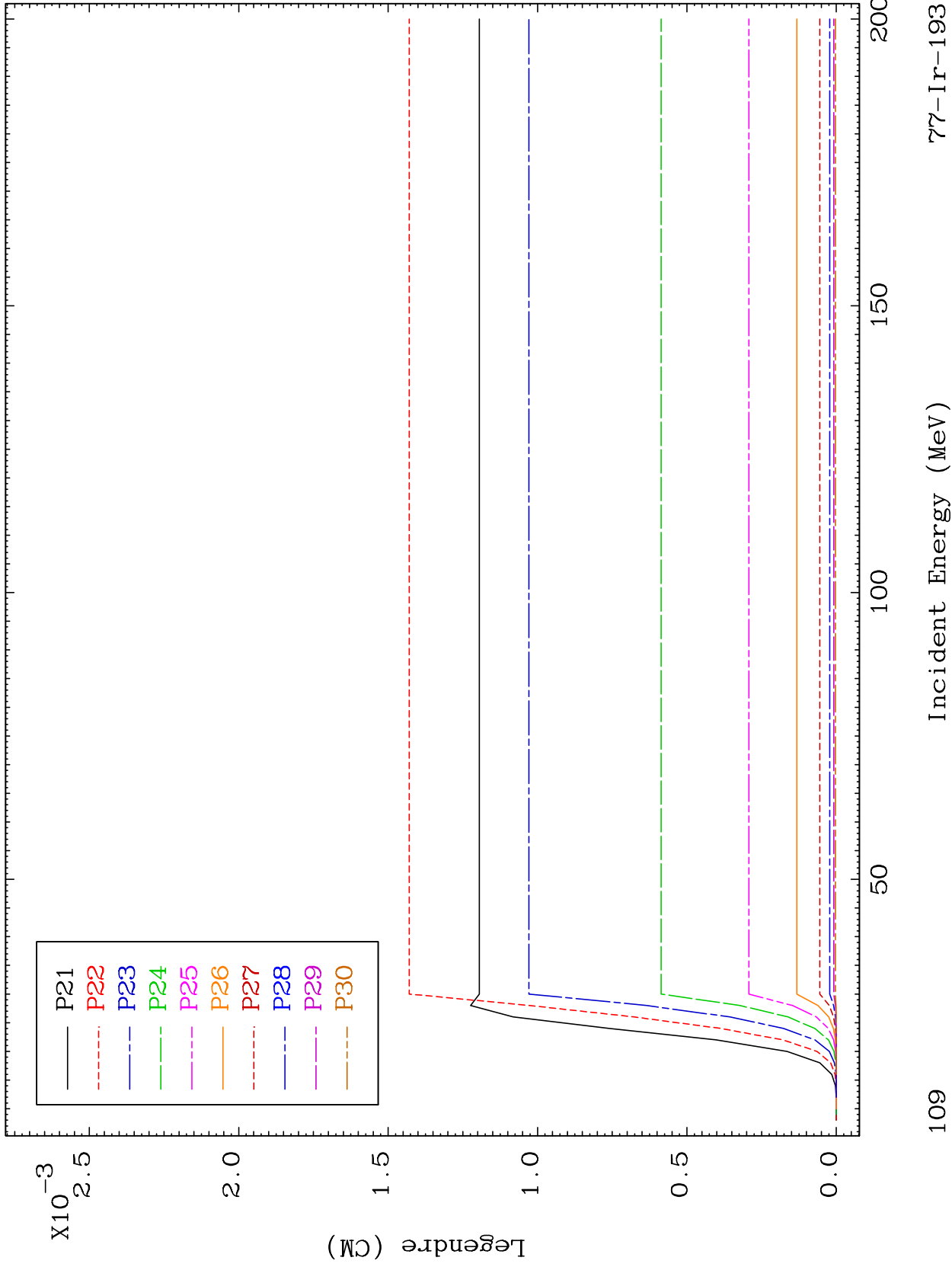
77-Ir-193



77-Ir-193

Incident Energy (MeV)

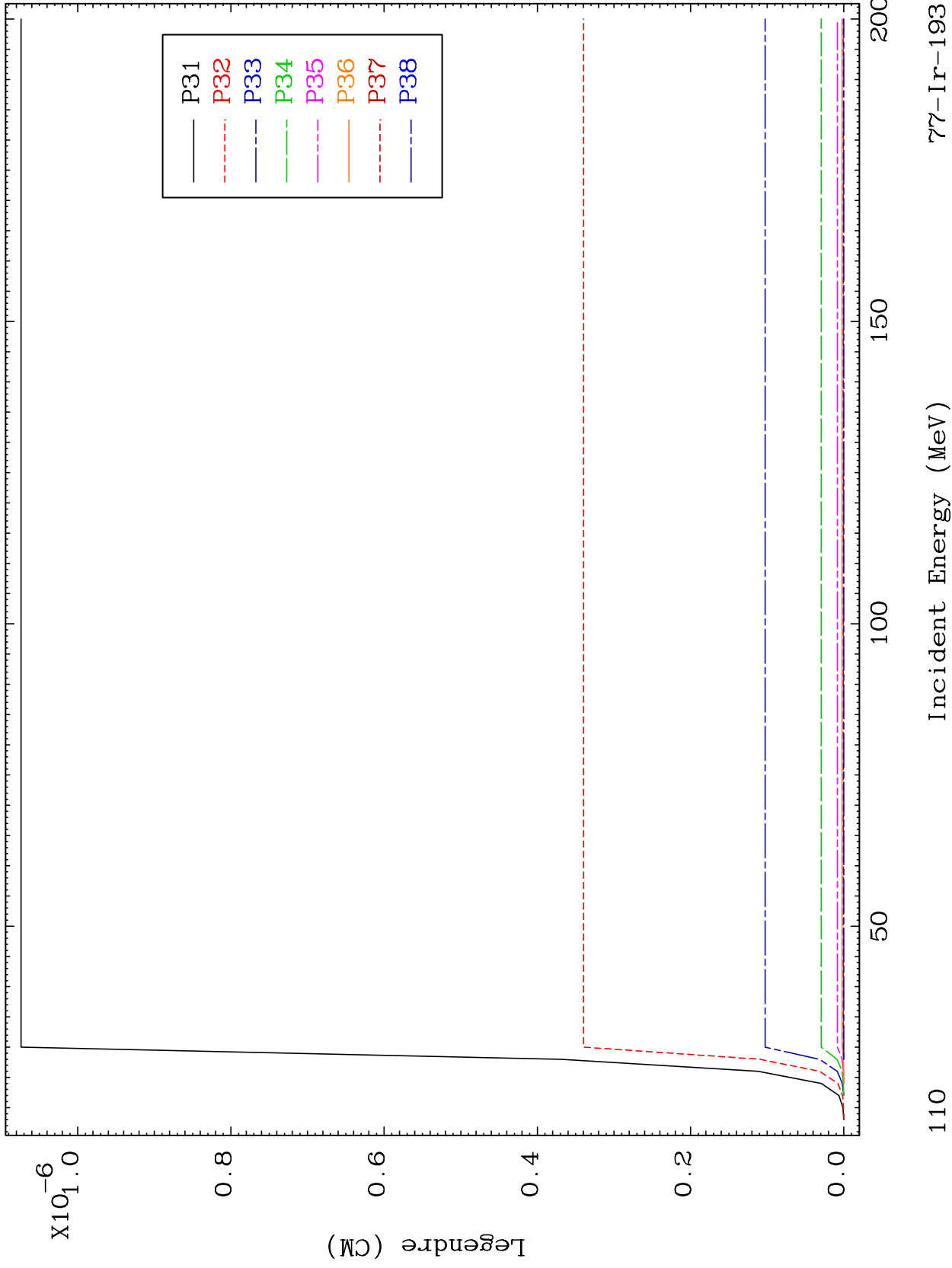
108



MAT 7731

832.9 keV (n,n') Level
Legendre Coefficients

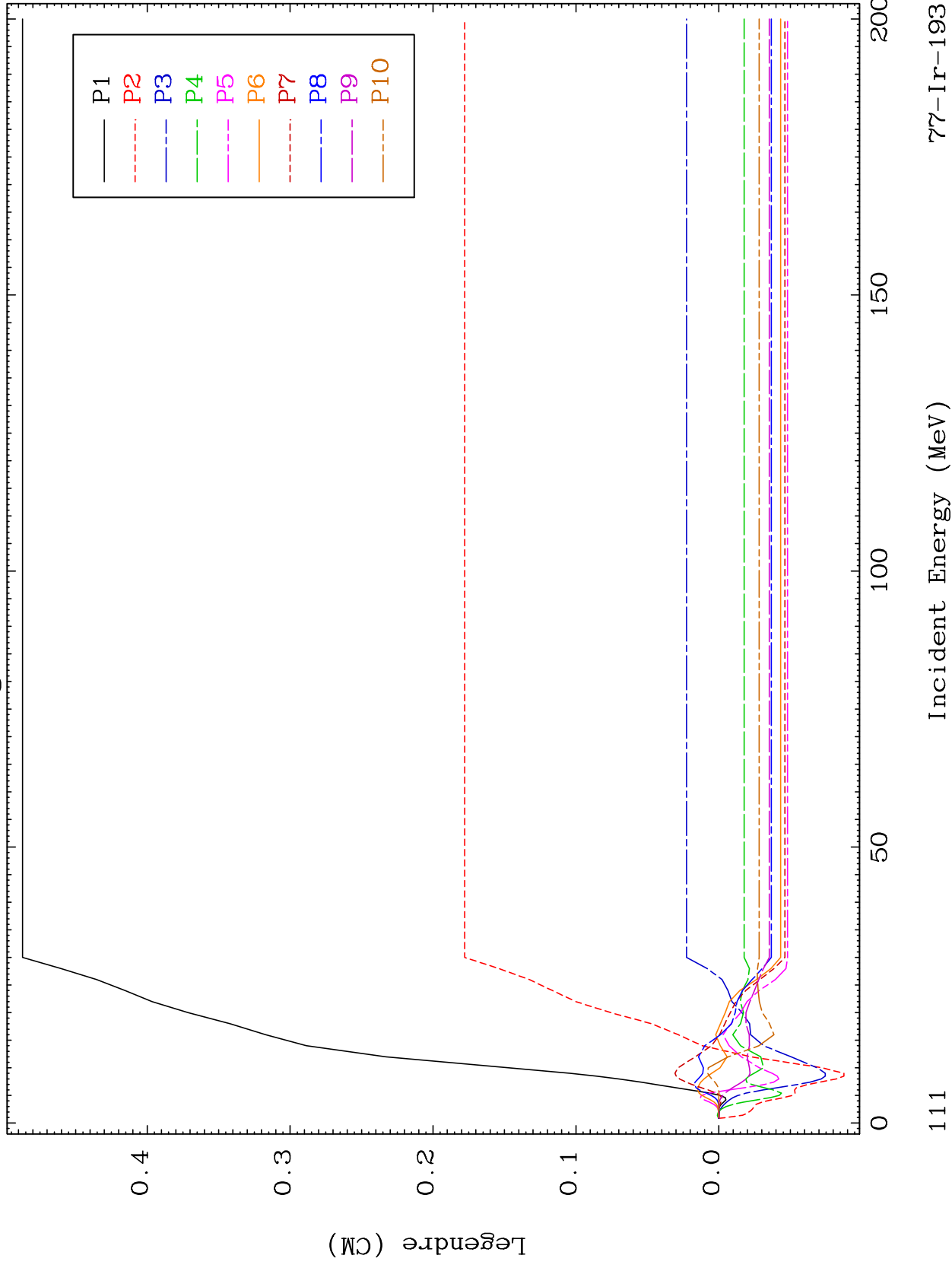
77-Ir-193



MAT 7731

838.9 keV (n,n') Level
Legendre Coefficients

77-Ir-193



77-Ir-193

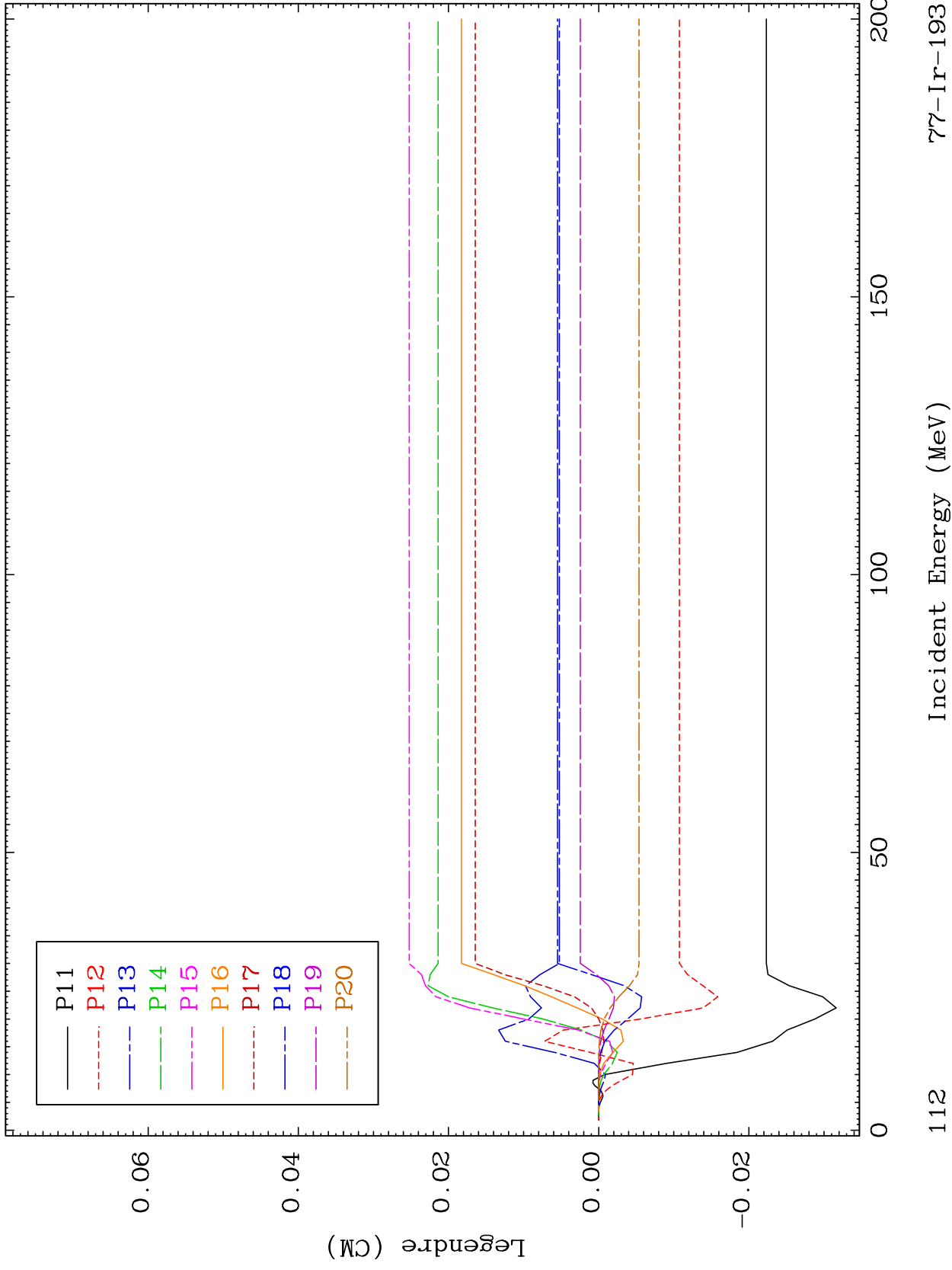
Incident Energy (MeV)

111

MAT 7731

838.9 keV (n,n') Level
Legendre Coefficients

77-Ir-193



77-Ir-193

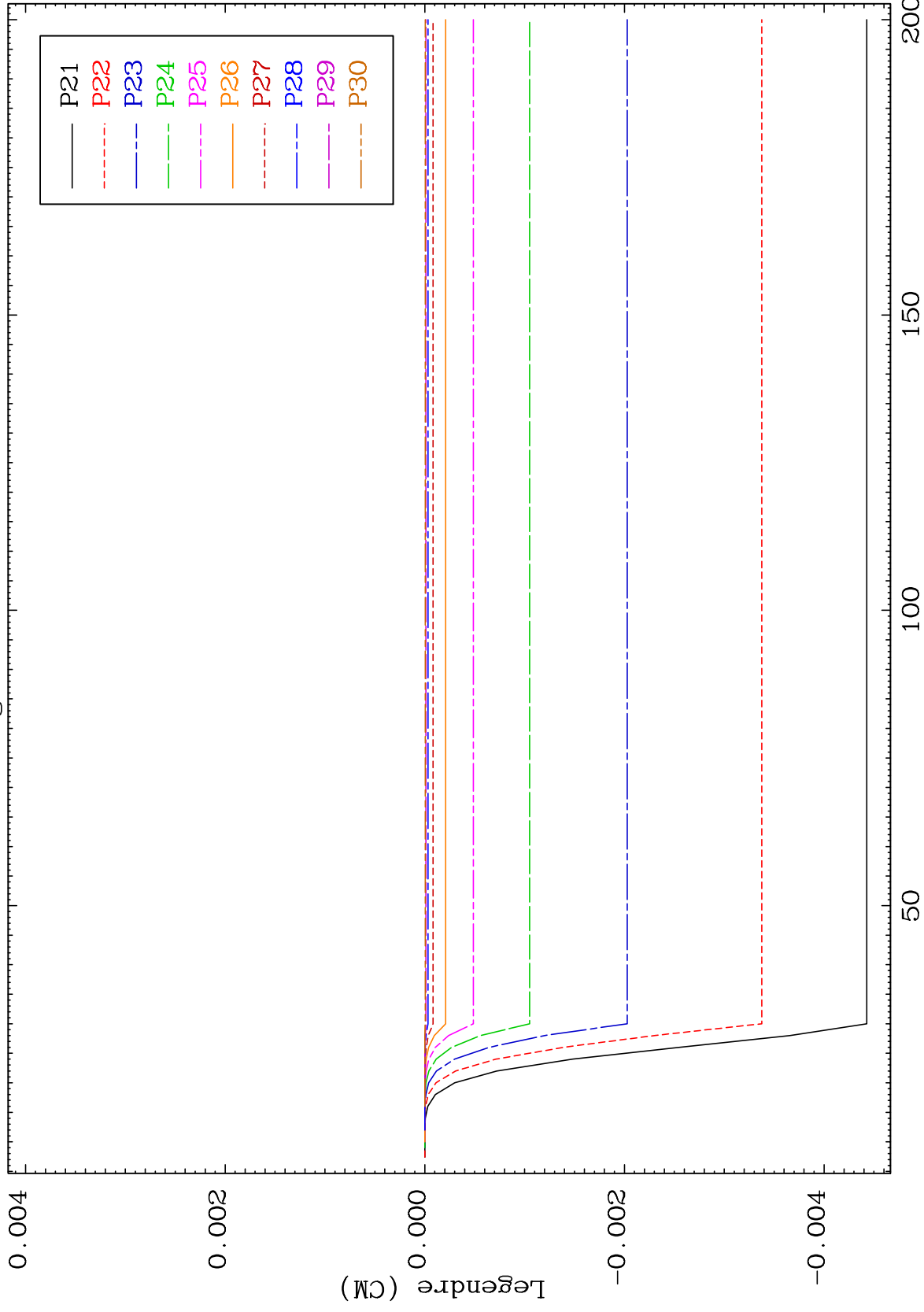
Incident Energy (MeV)

112

MAT 7731

838.9 keV (n,n') Level
Legendre Coefficients

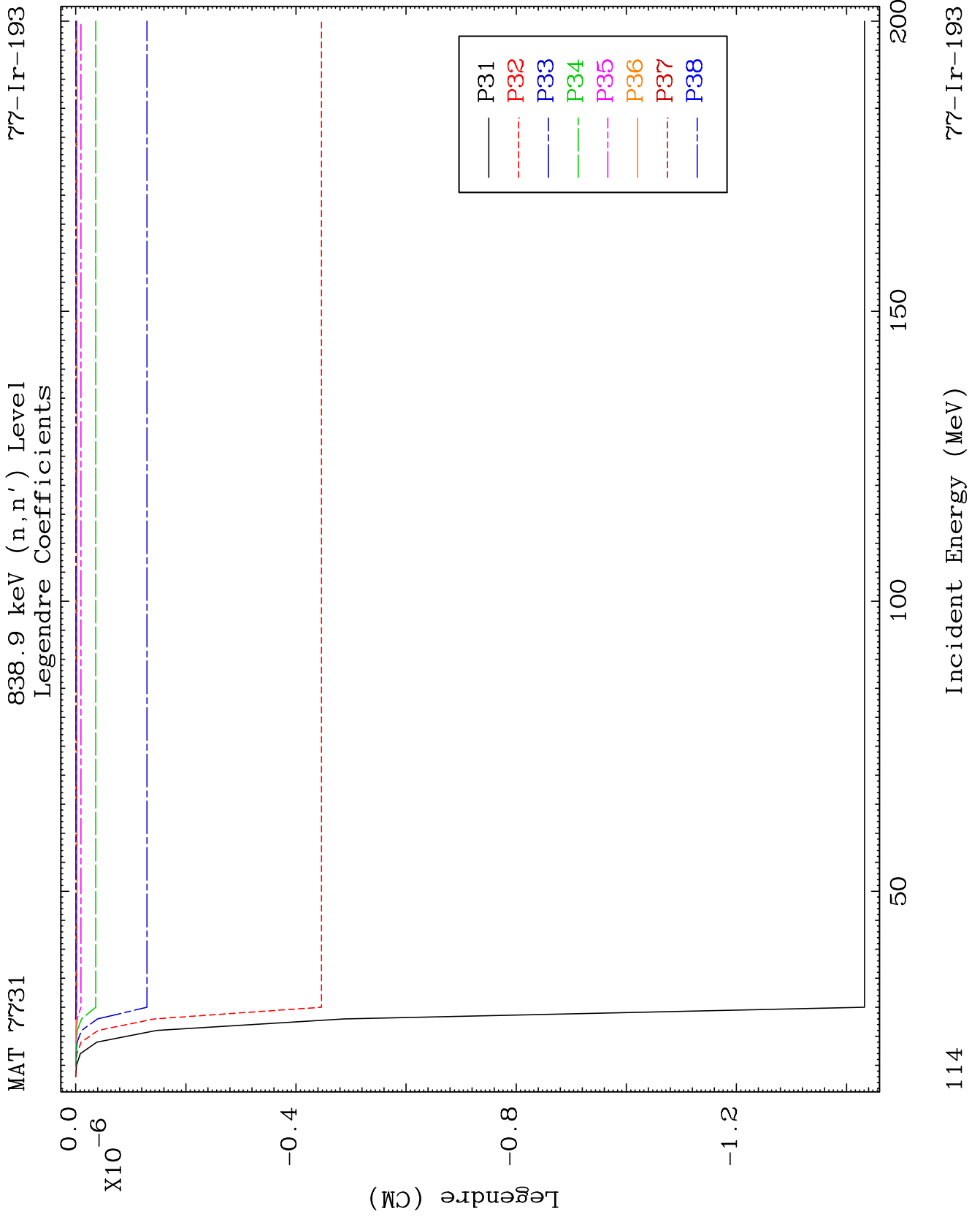
77-Ir-193



113

Incident Energy (MeV)

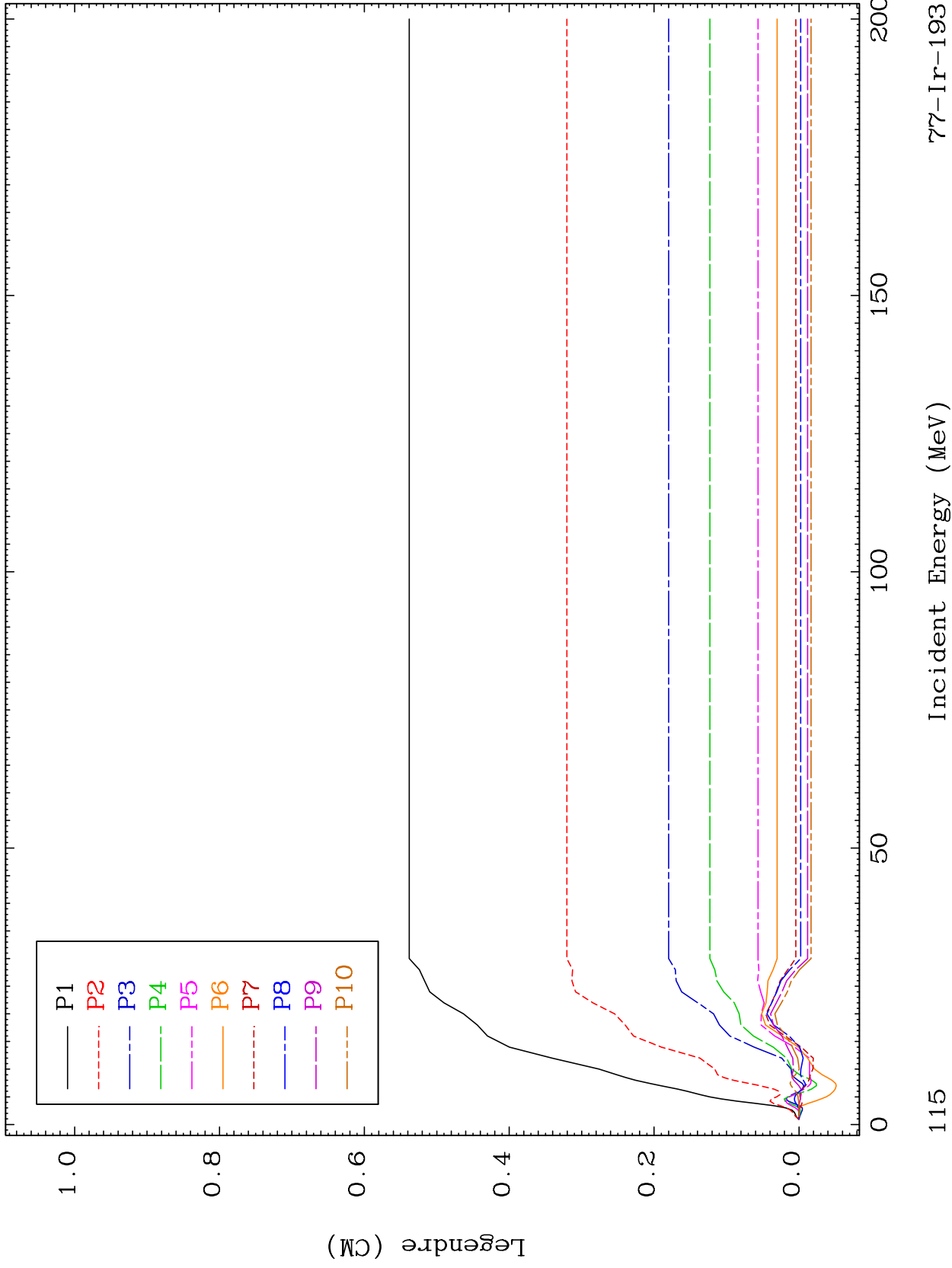
77-Ir-193



MAT 7731

848.9 keV (n,n') Level
Legendre Coefficients

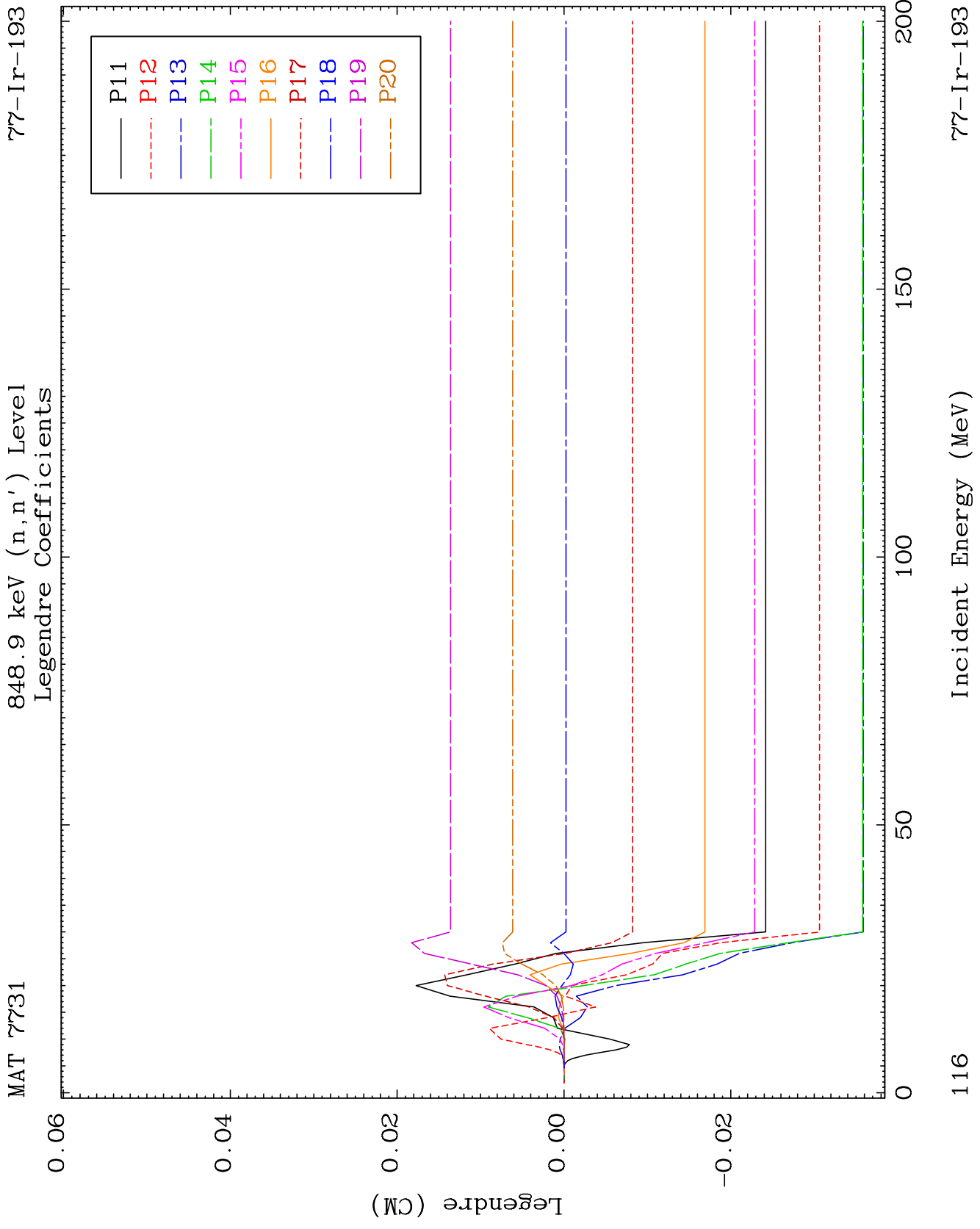
77-Ir-193

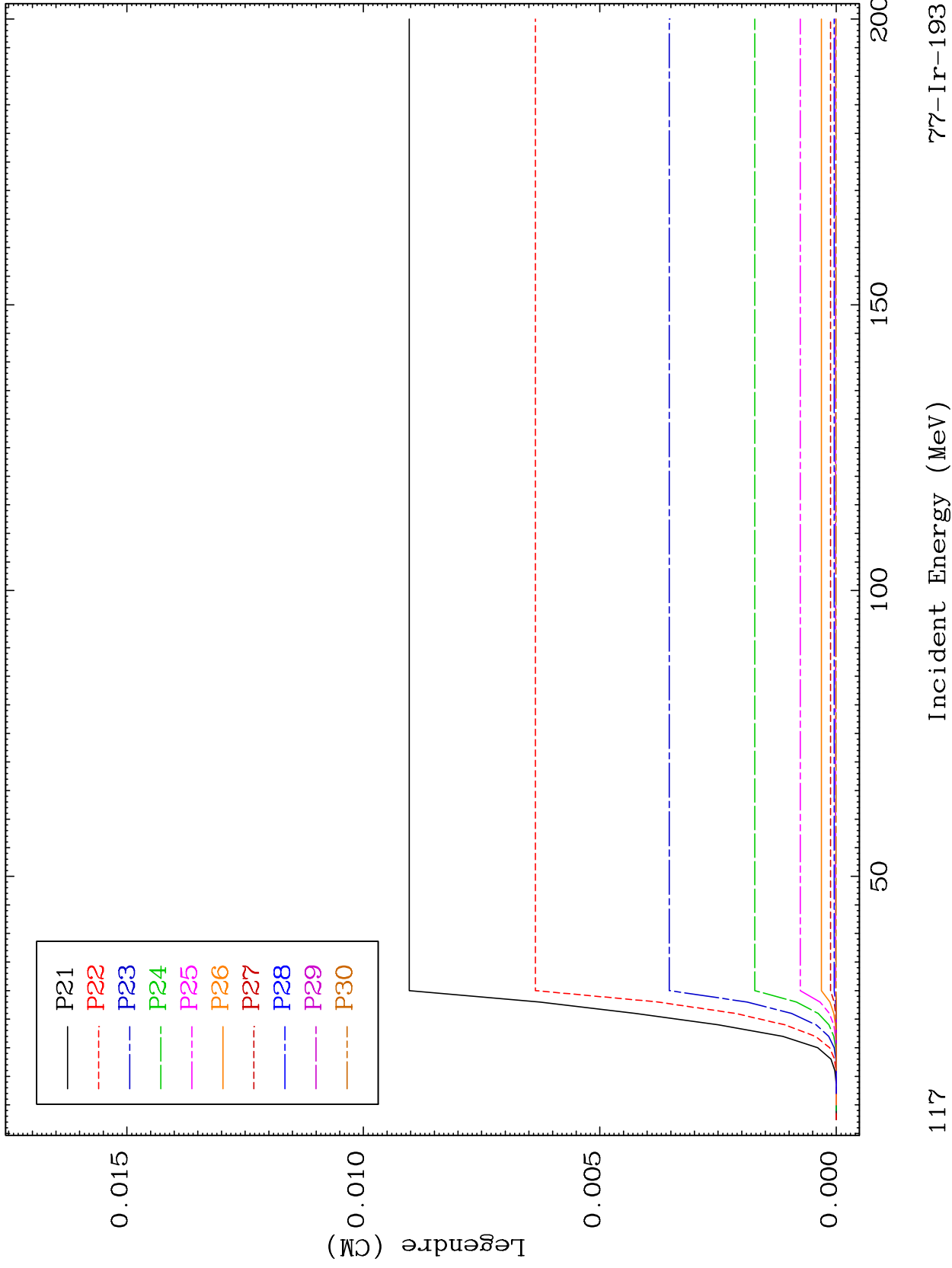


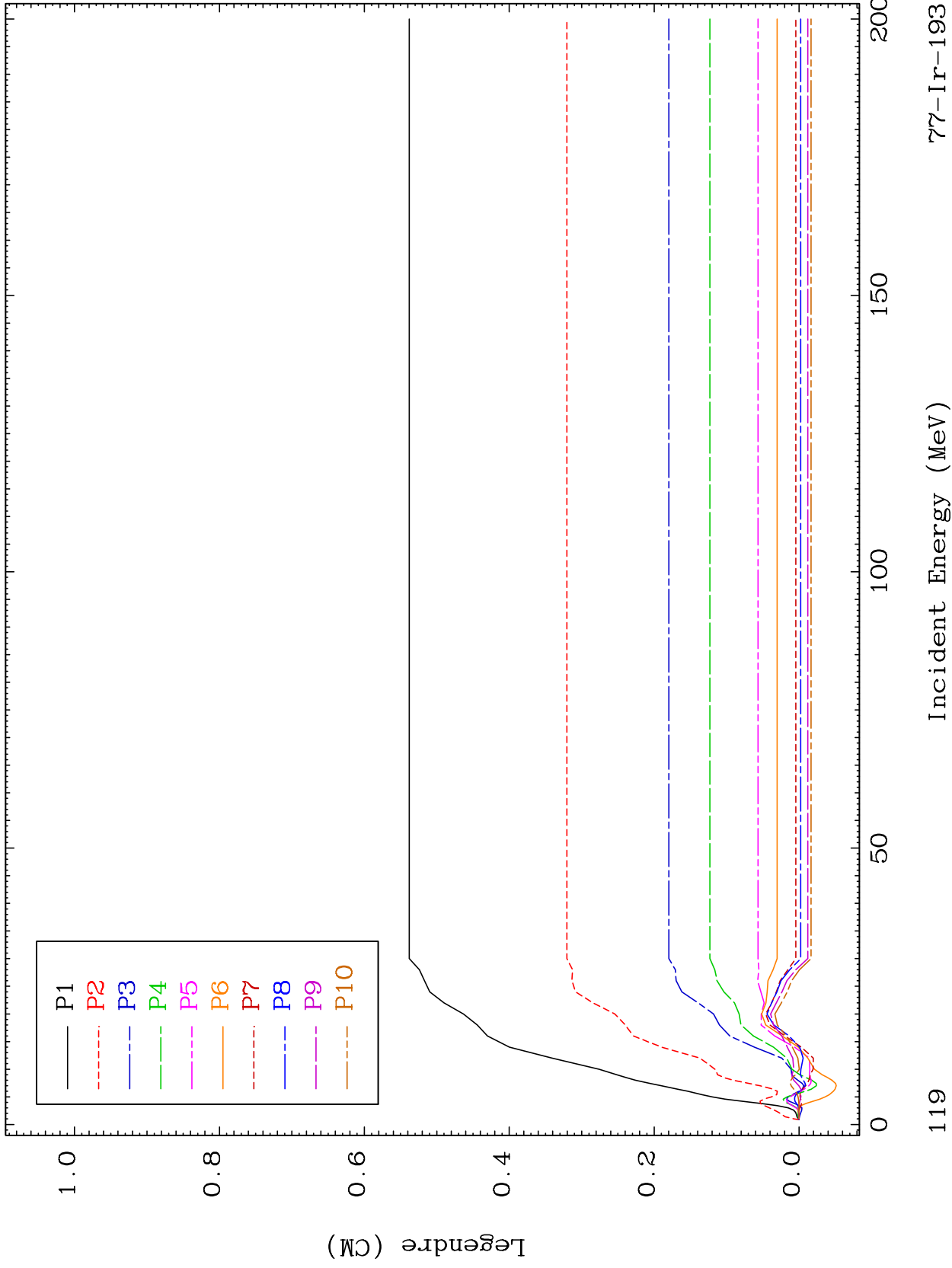
77-Ir-193

Incident Energy (MeV)

115



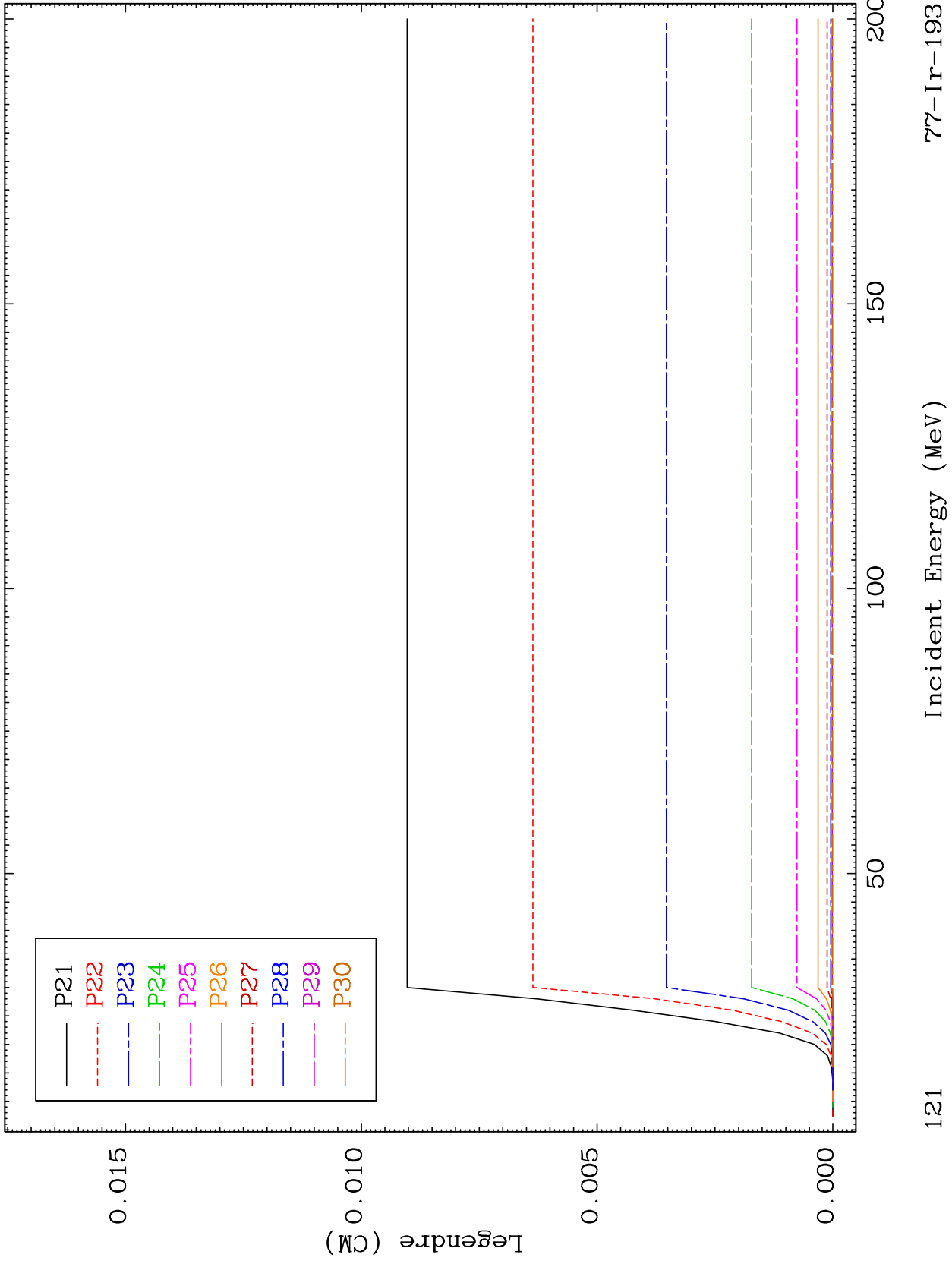




MAT 7731

853.1 keV (n,n') Level
Legendre Coefficients

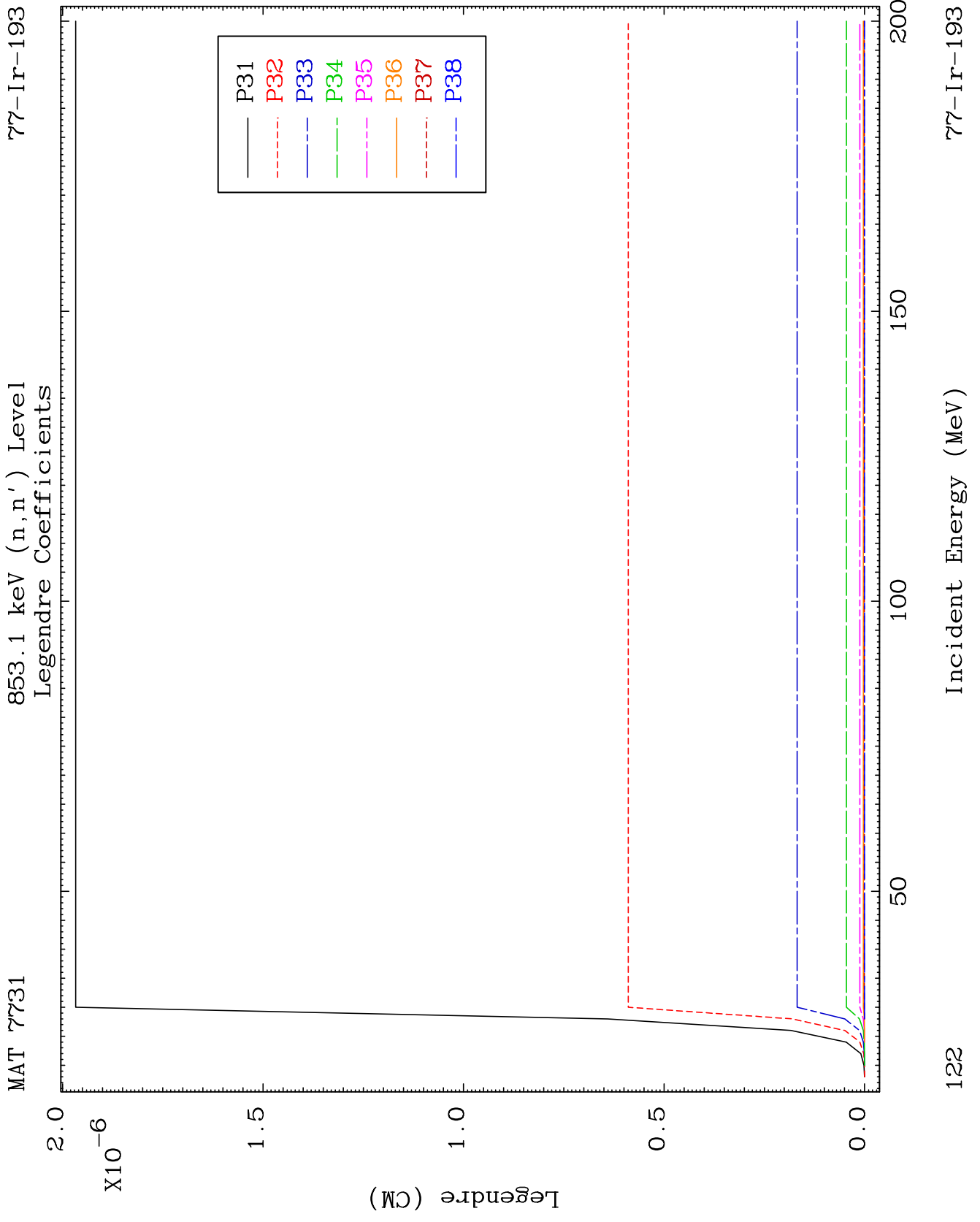
77-Ir-193



121

Incident Energy (MeV)

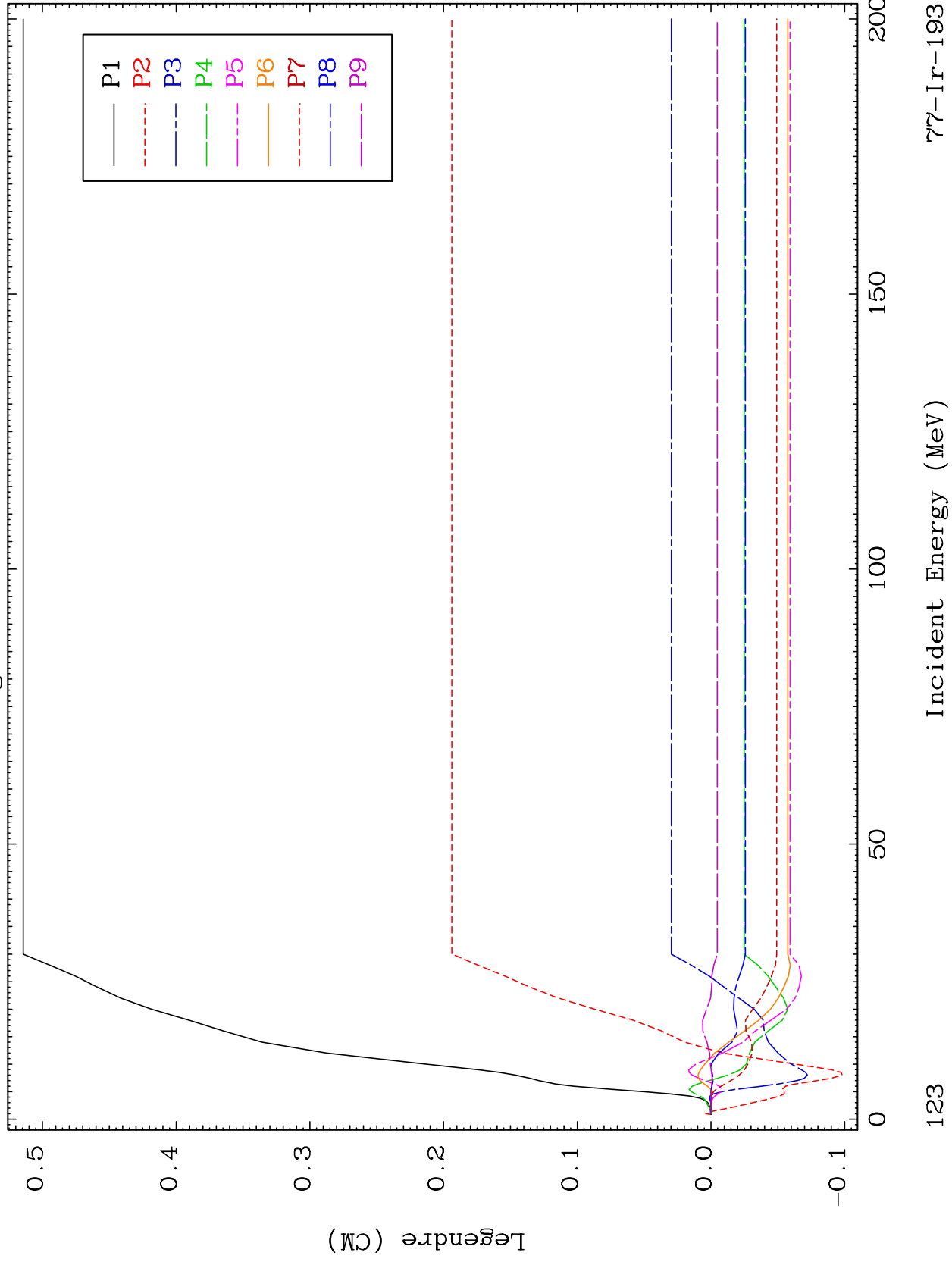
77-Ir-193



MAT 7731

857.0 keV (n,n') Level
Legendre Coefficients

77-Ir-193



77-Ir-193

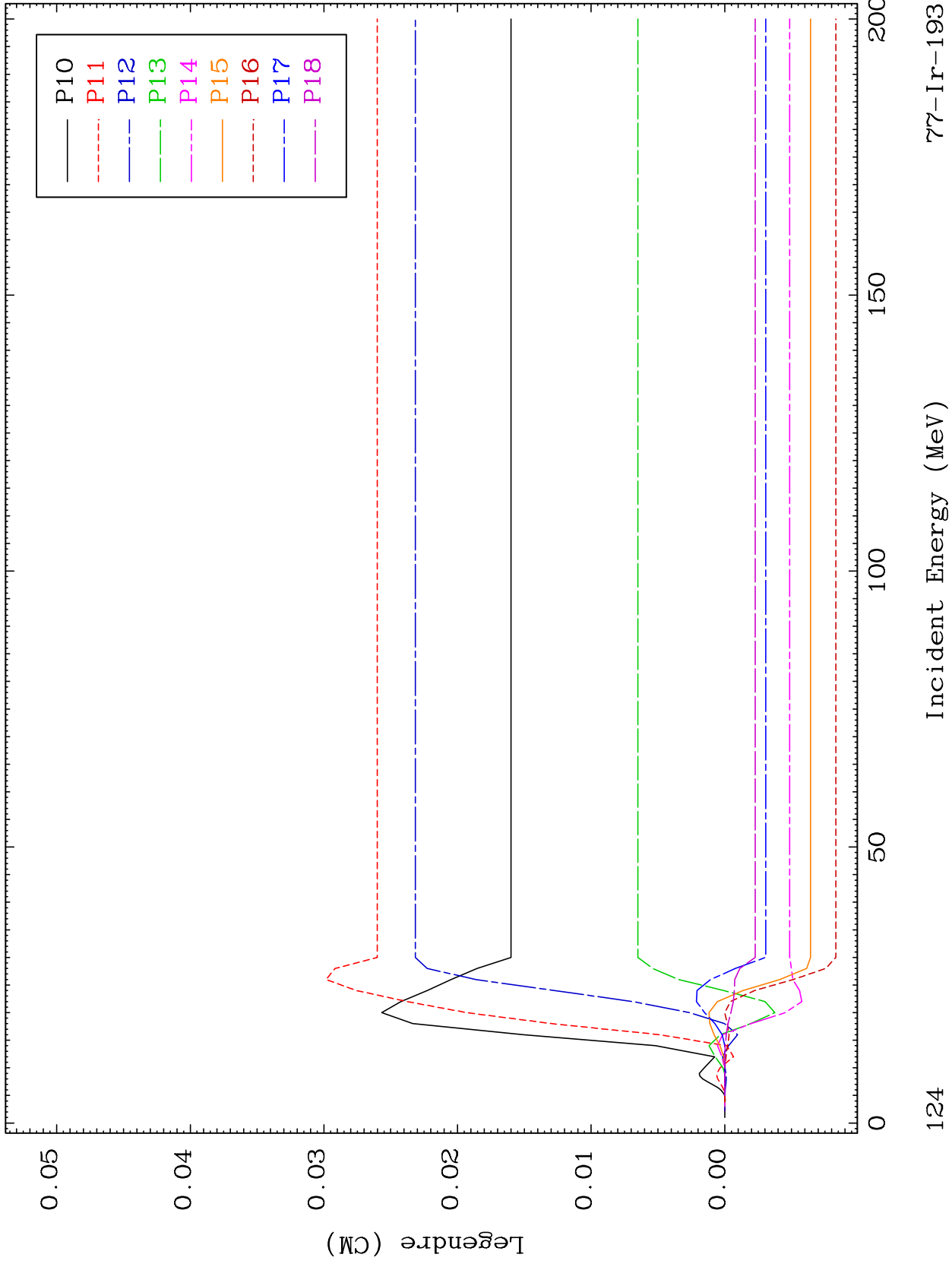
Incident Energy (MeV)

123

MAT 7731

857.0 keV (n,n') Level
Legendre Coefficients

77-Ir-193



77-Ir-193

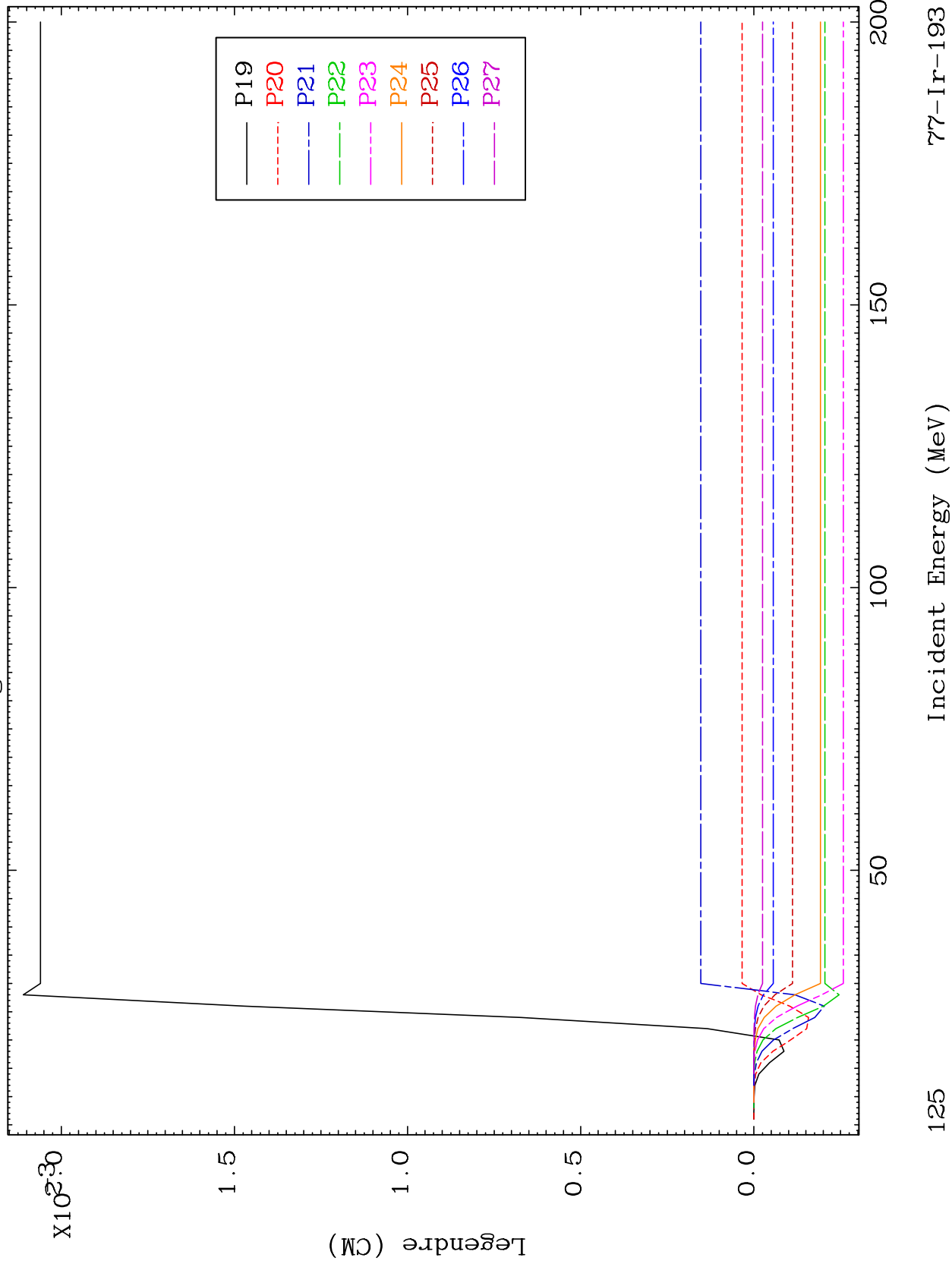
Incident Energy (MeV)

124

MAT 7731

857.0 keV (n,n') Level
Legendre Coefficients

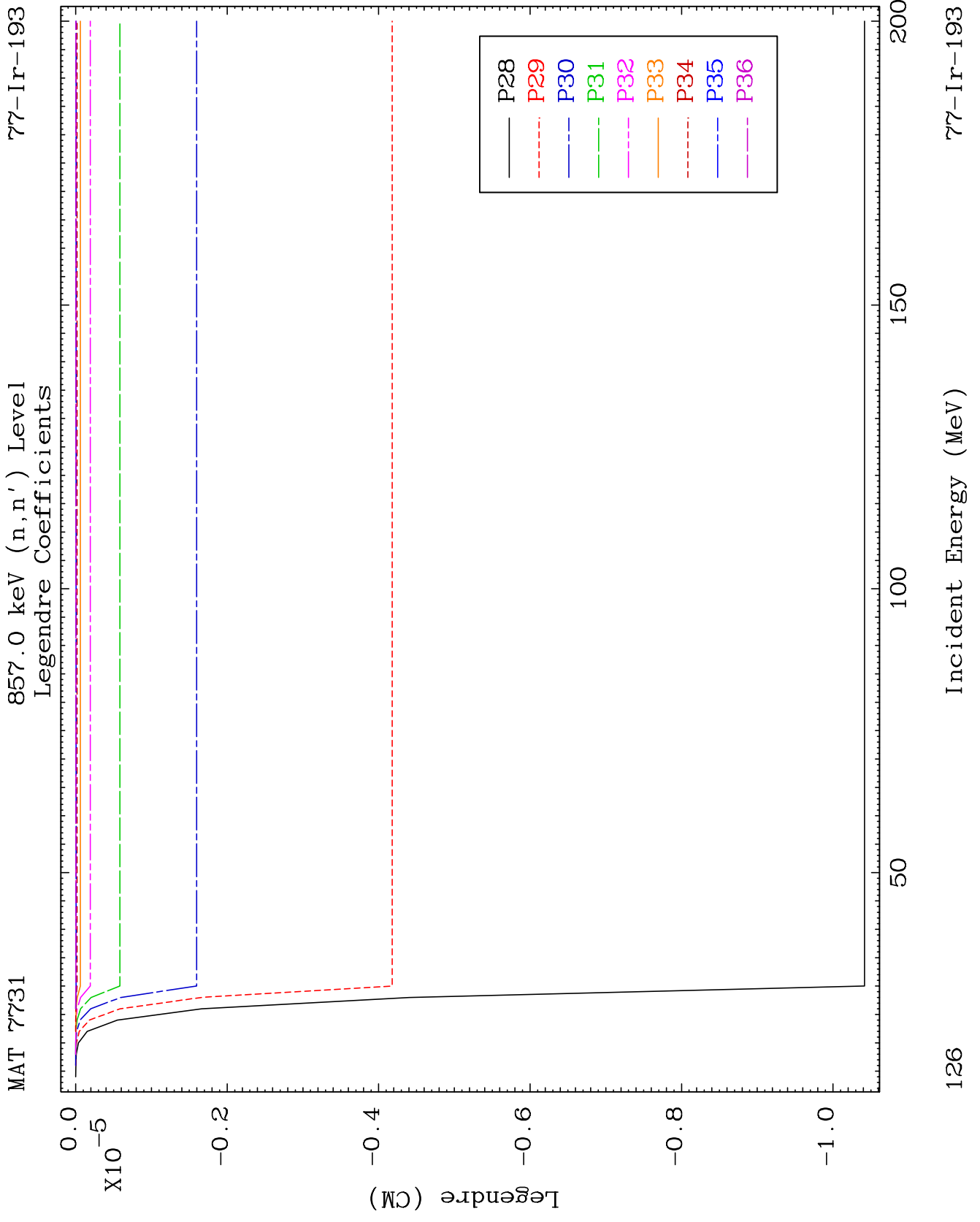
77-Ir-193



125

Incident Energy (MeV)

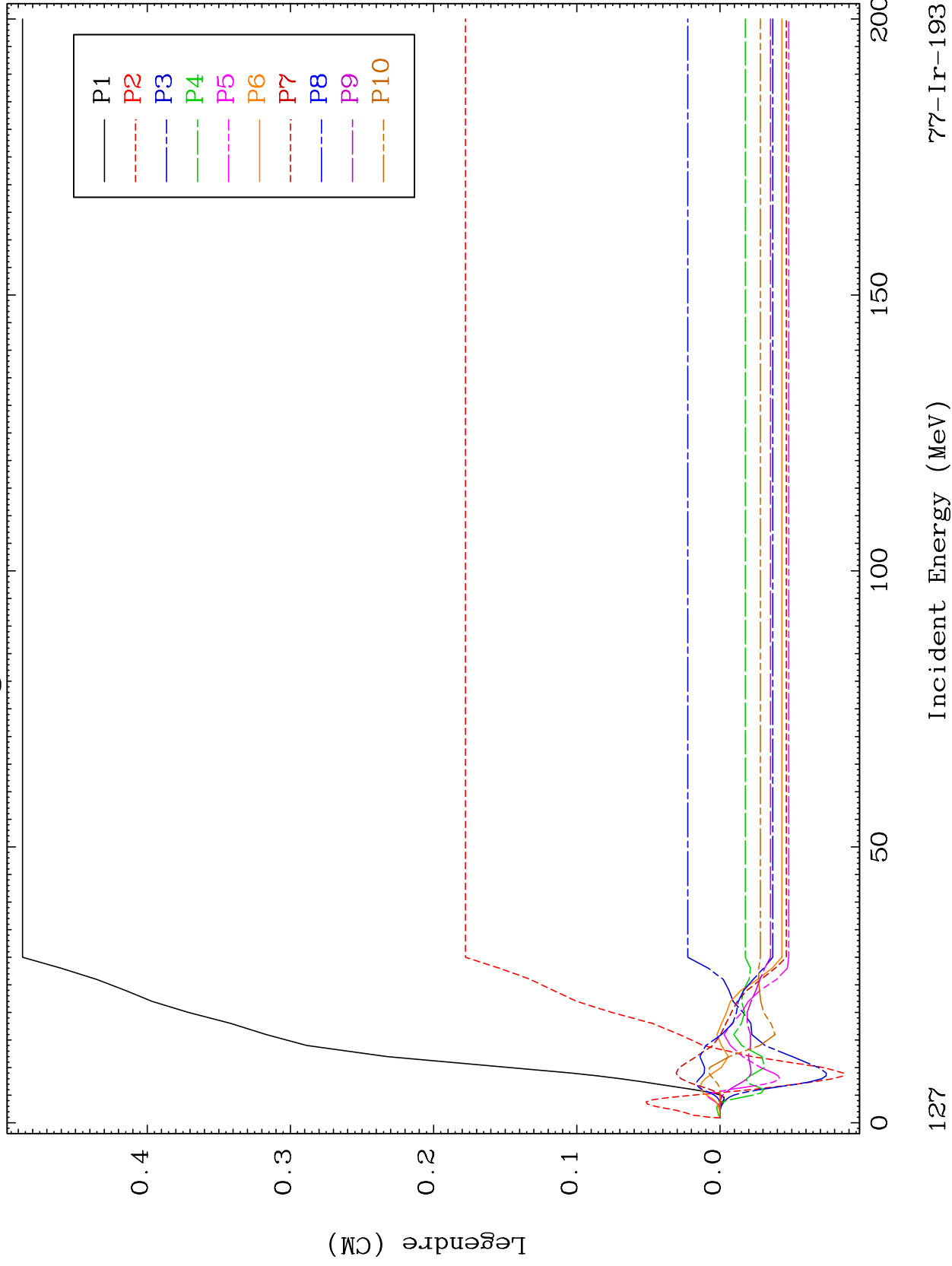
77-Ir-193



MAT 7731

874.3 keV (n,n') Level
Legendre Coefficients

77-Ir-193

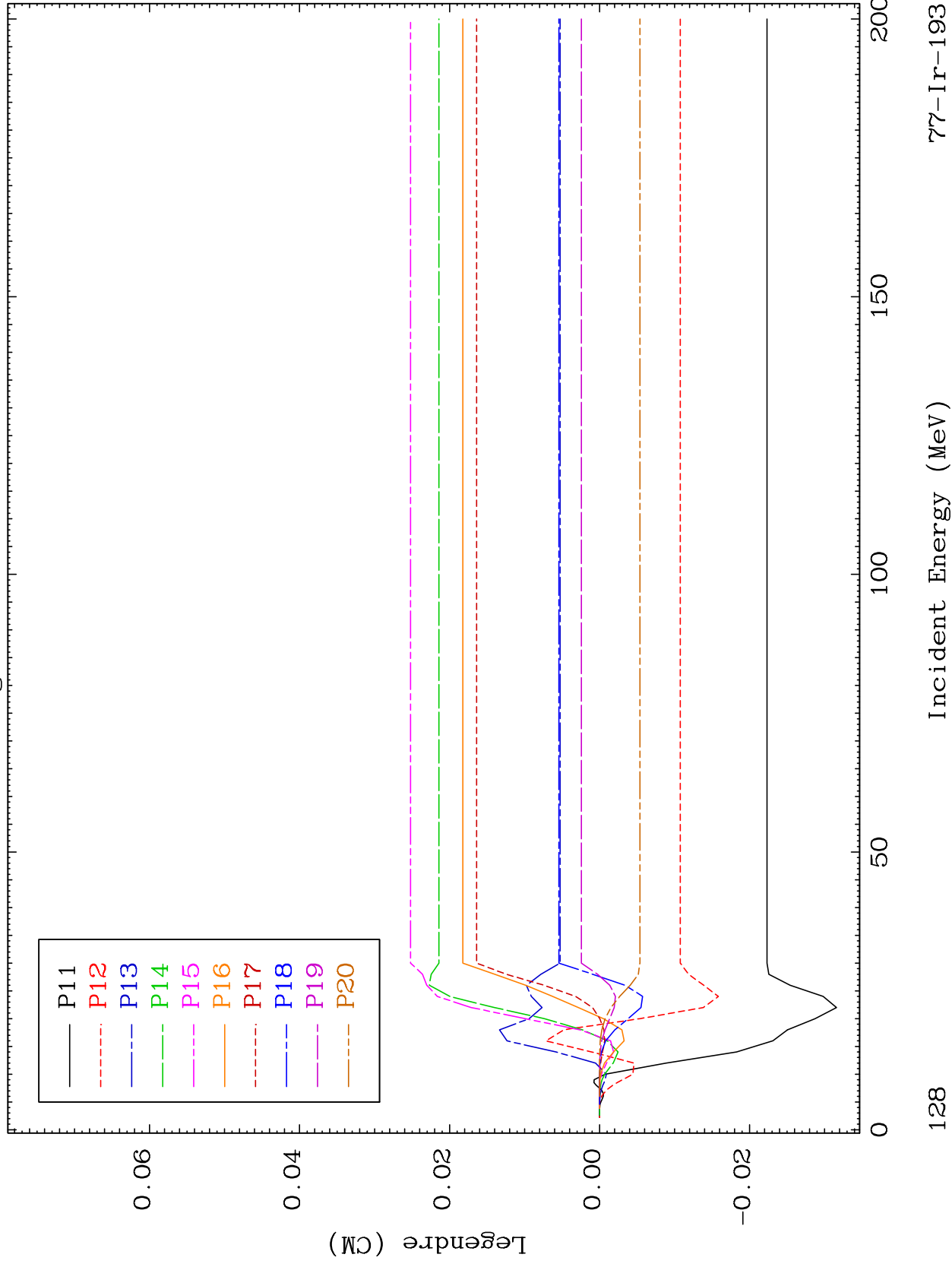


127

MAT 7731

874.3 keV (n,n') Level
Legendre Coefficients

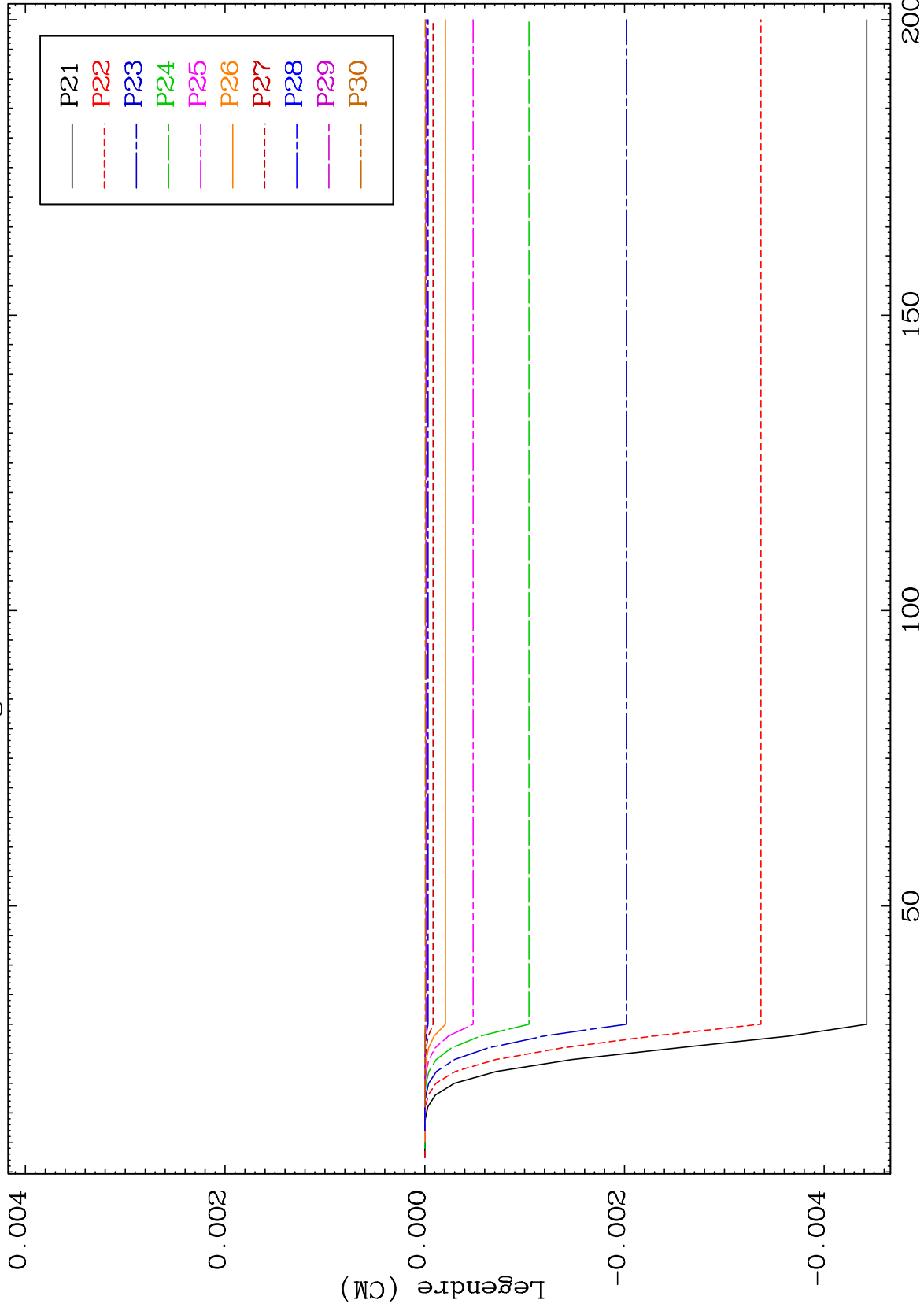
77-Ir-193

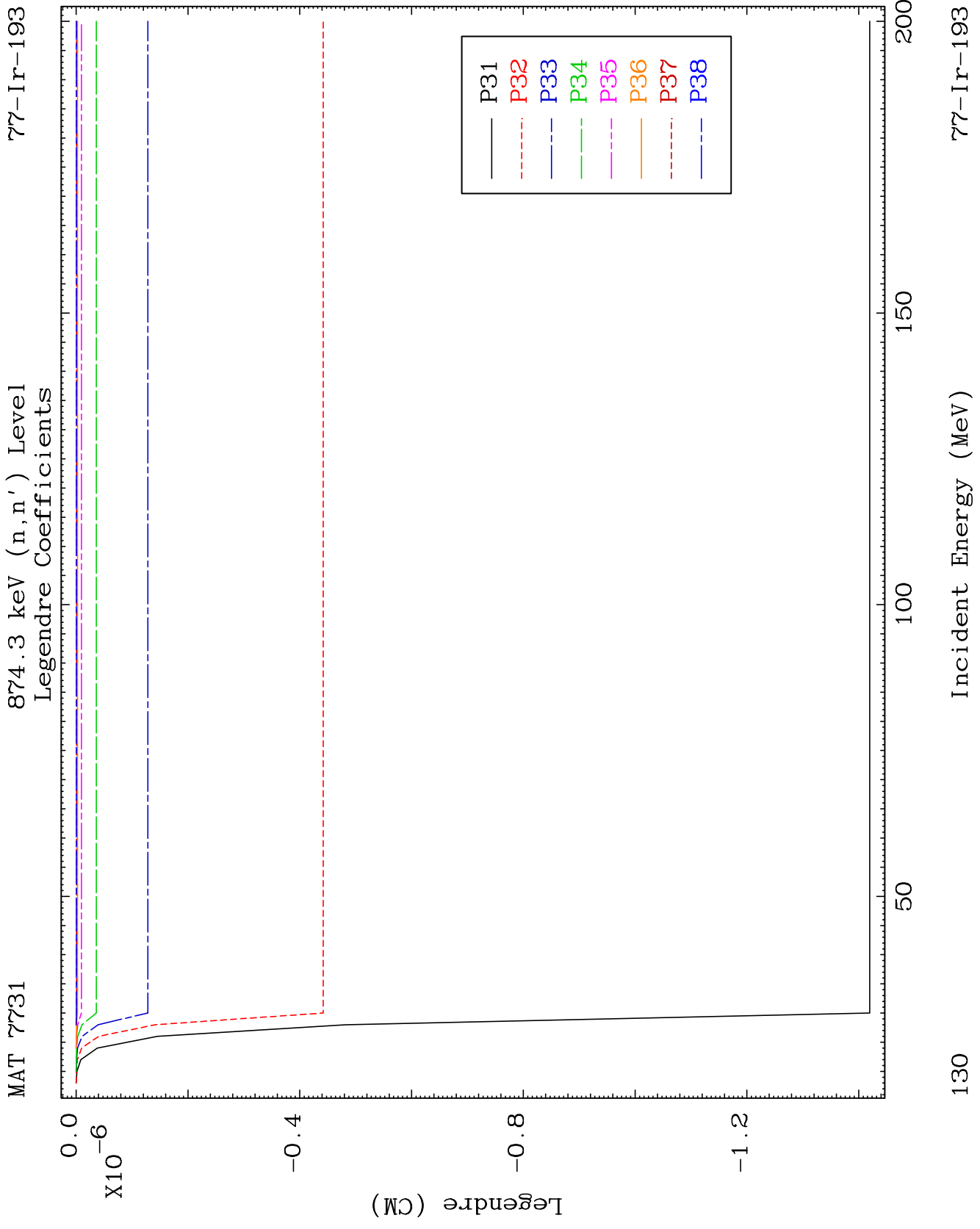


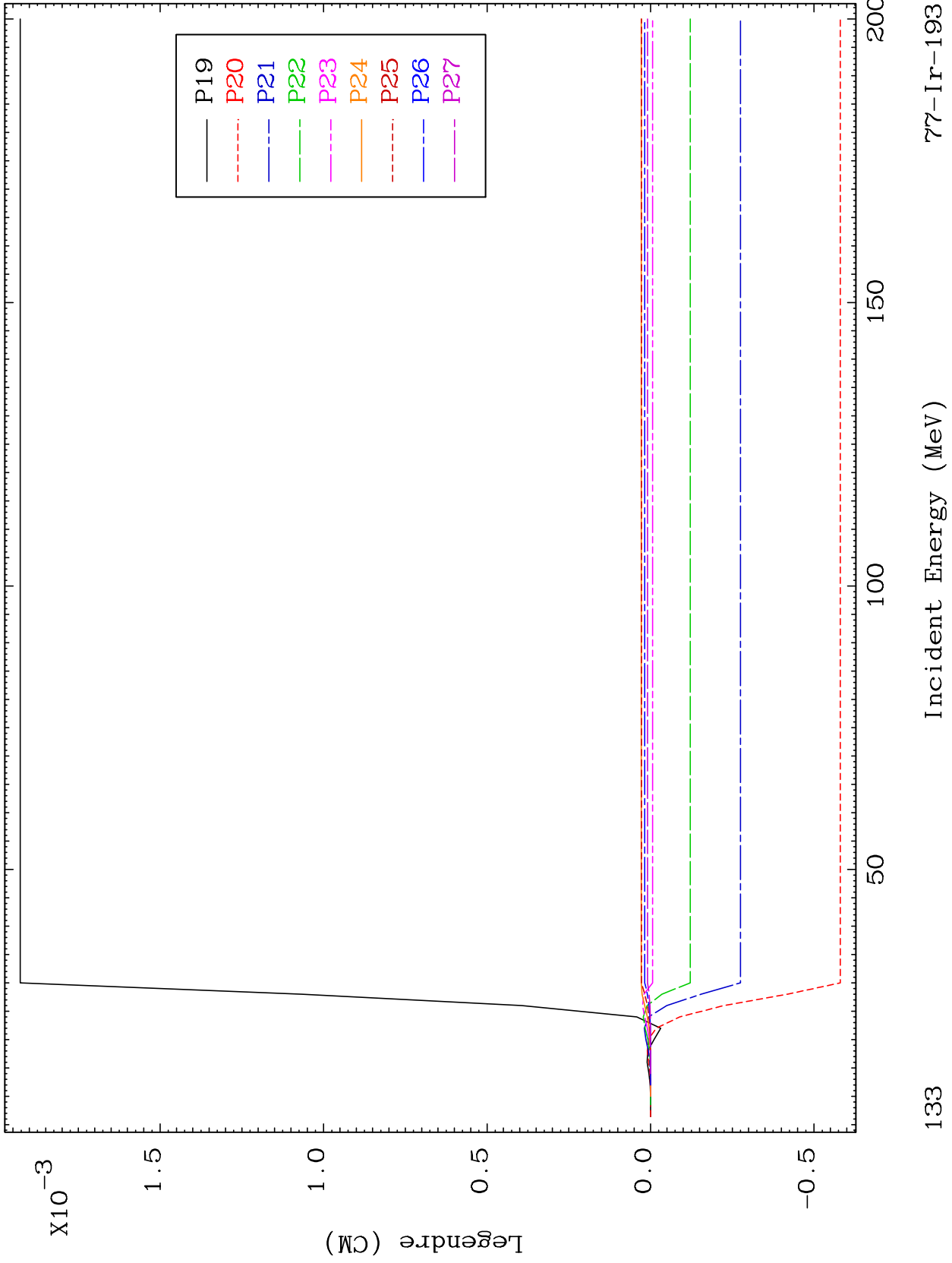
128

Incident Energy (MeV)

77-Ir-193



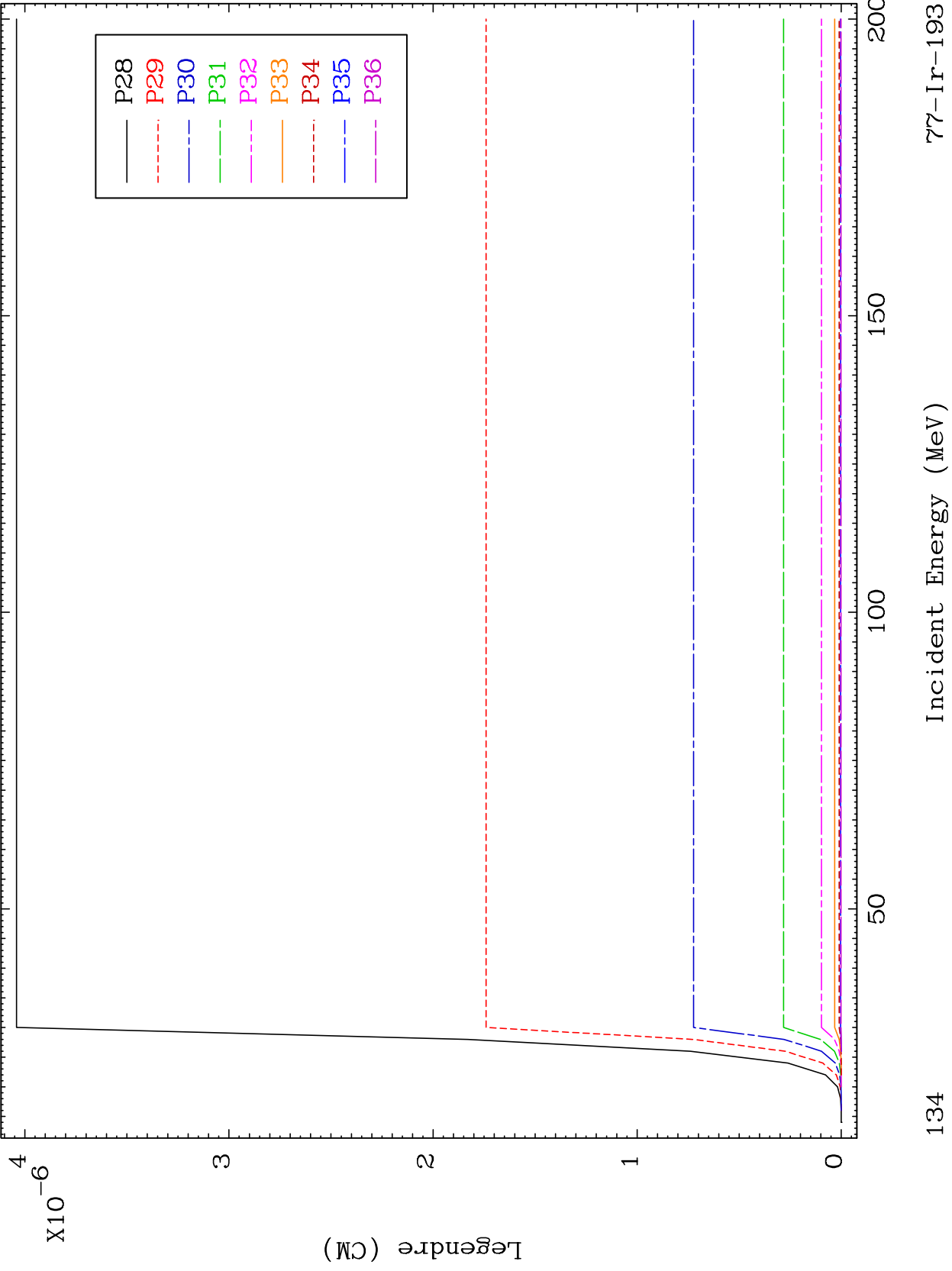




MAT 7731

892.3 keV (n,n') Level
Legendre Coefficients

77-Ir-193

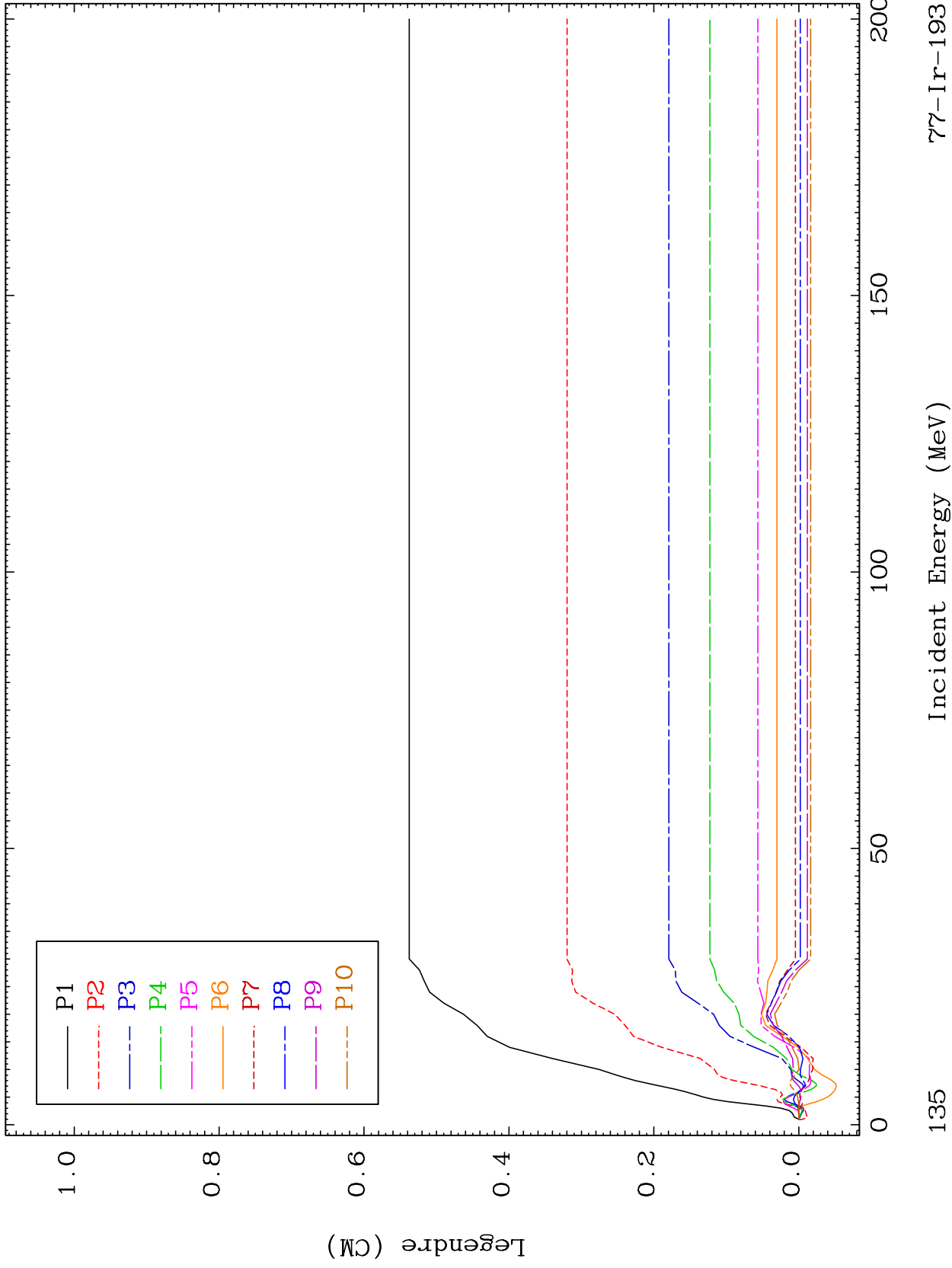


134

MAT 7731

918.4 keV (n,n') Level
Legendre Coefficients

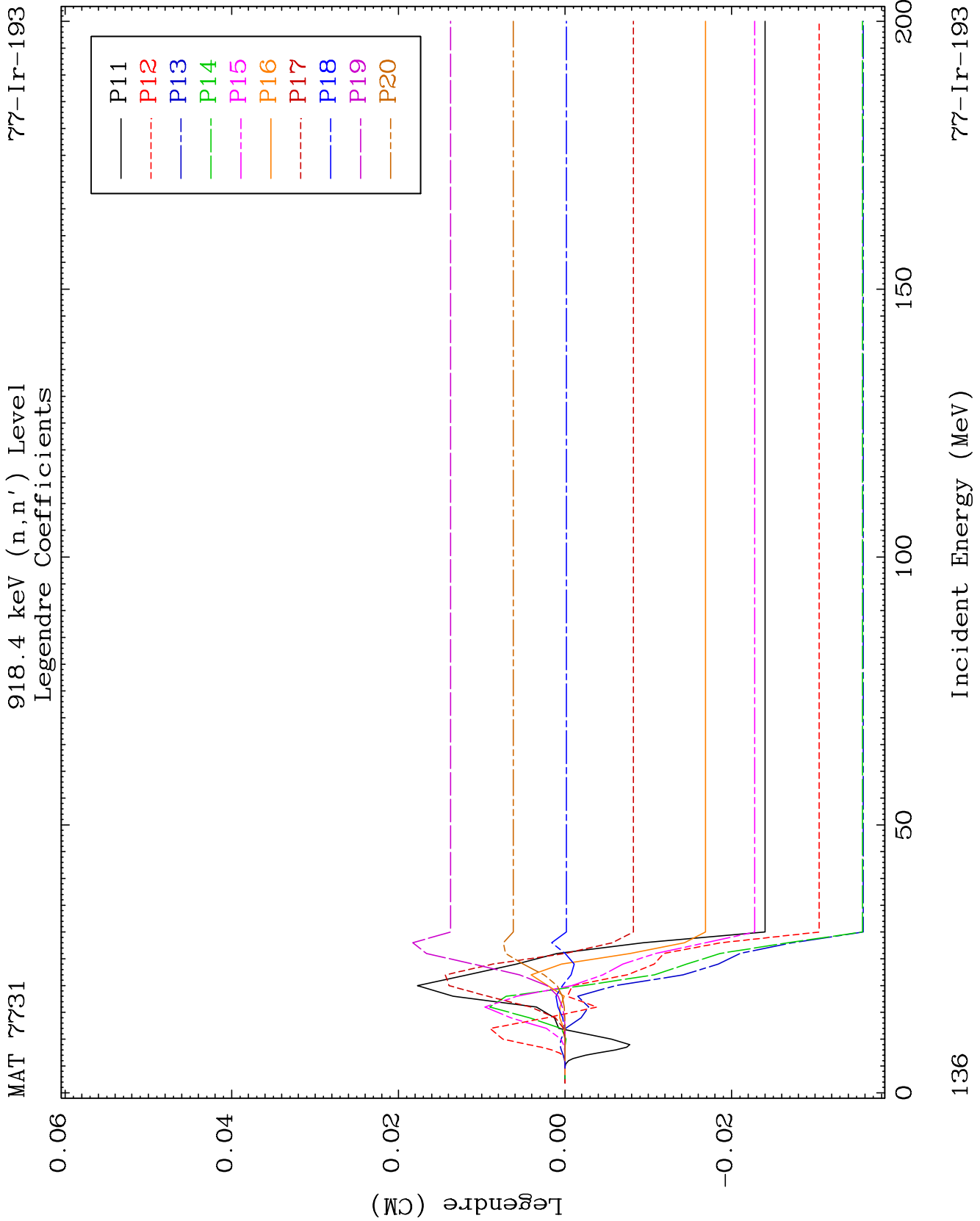
77-Ir-193



77-Ir-193

Incident Energy (MeV)

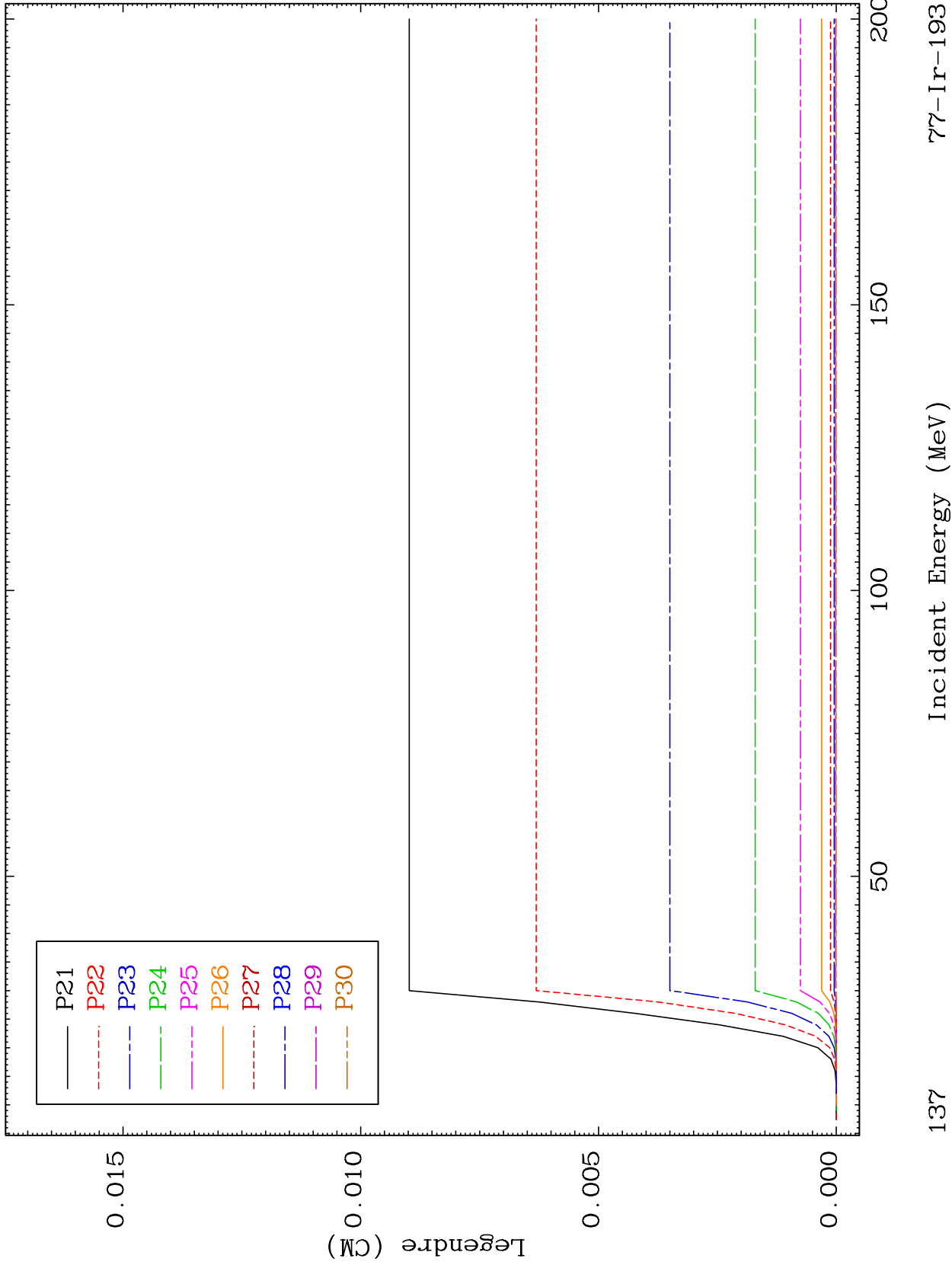
135



MAT 7731

918.4 keV (n,n') Level
Legendre Coefficients

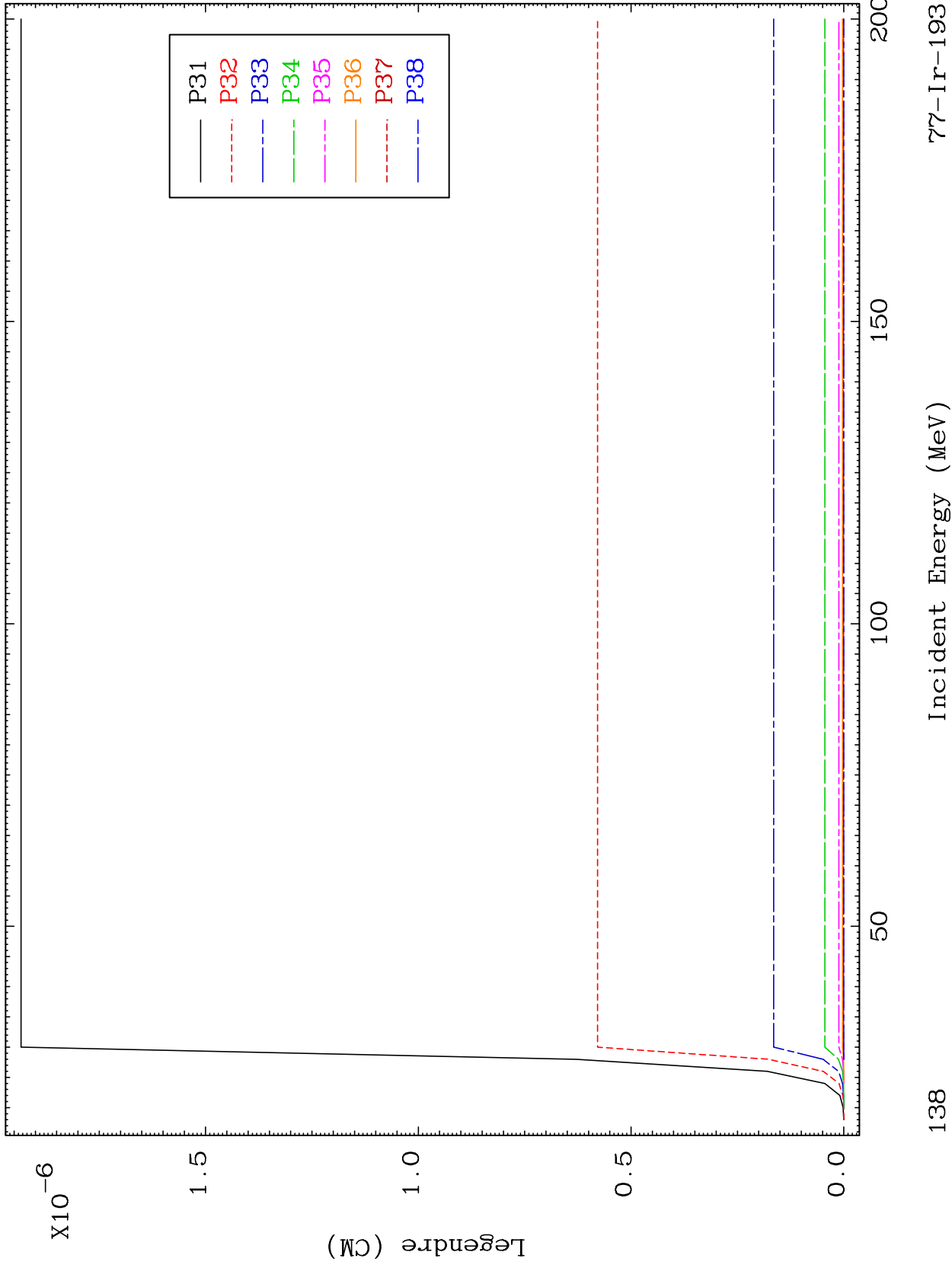
77-Ir-193



137

Incident Energy (MeV)

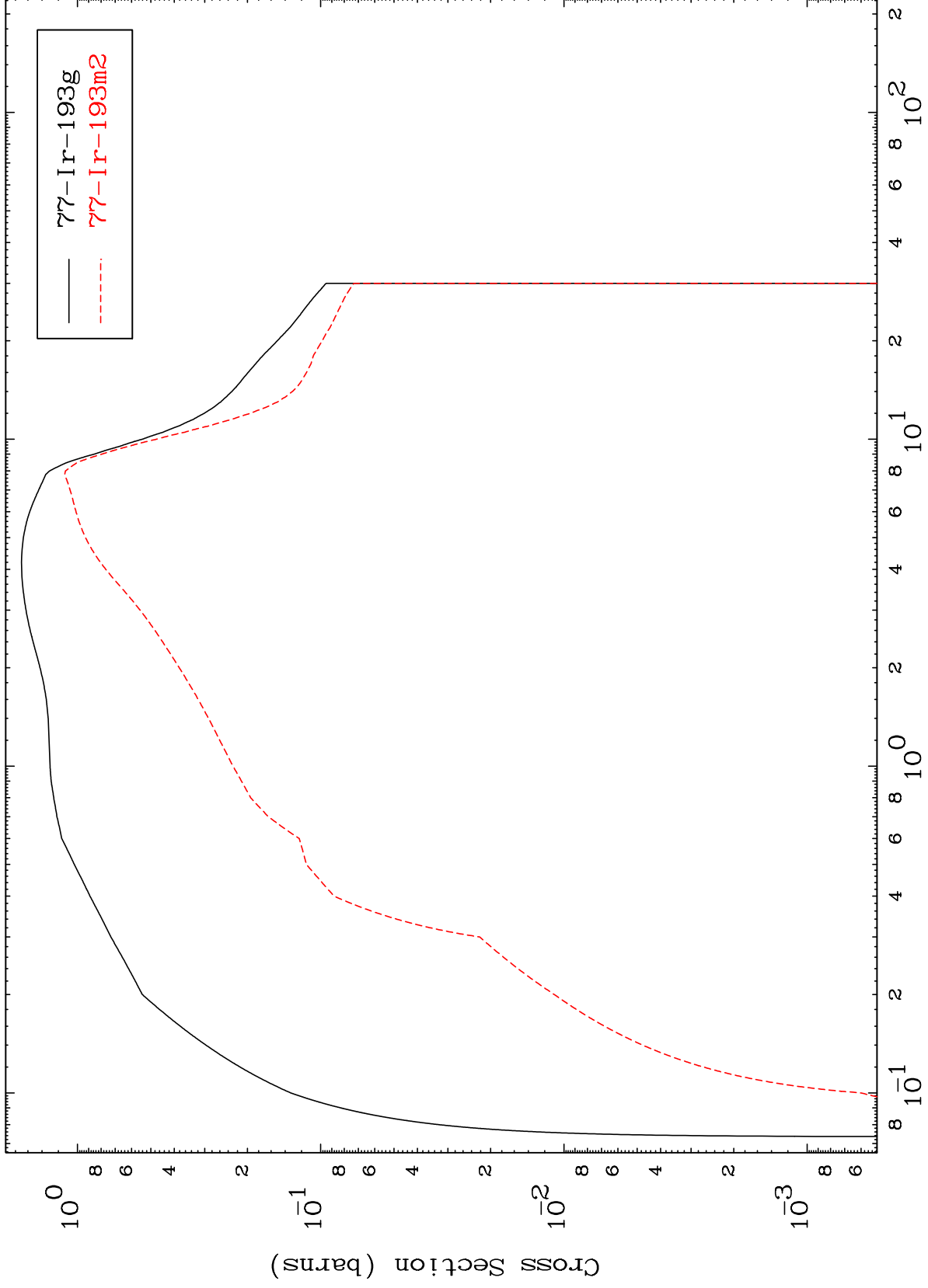
77-Ir-193



MAT 7731

77-Ir-193

Inelastic
Radionuclide Production Cross Section



139

Incident Energy (MeV)

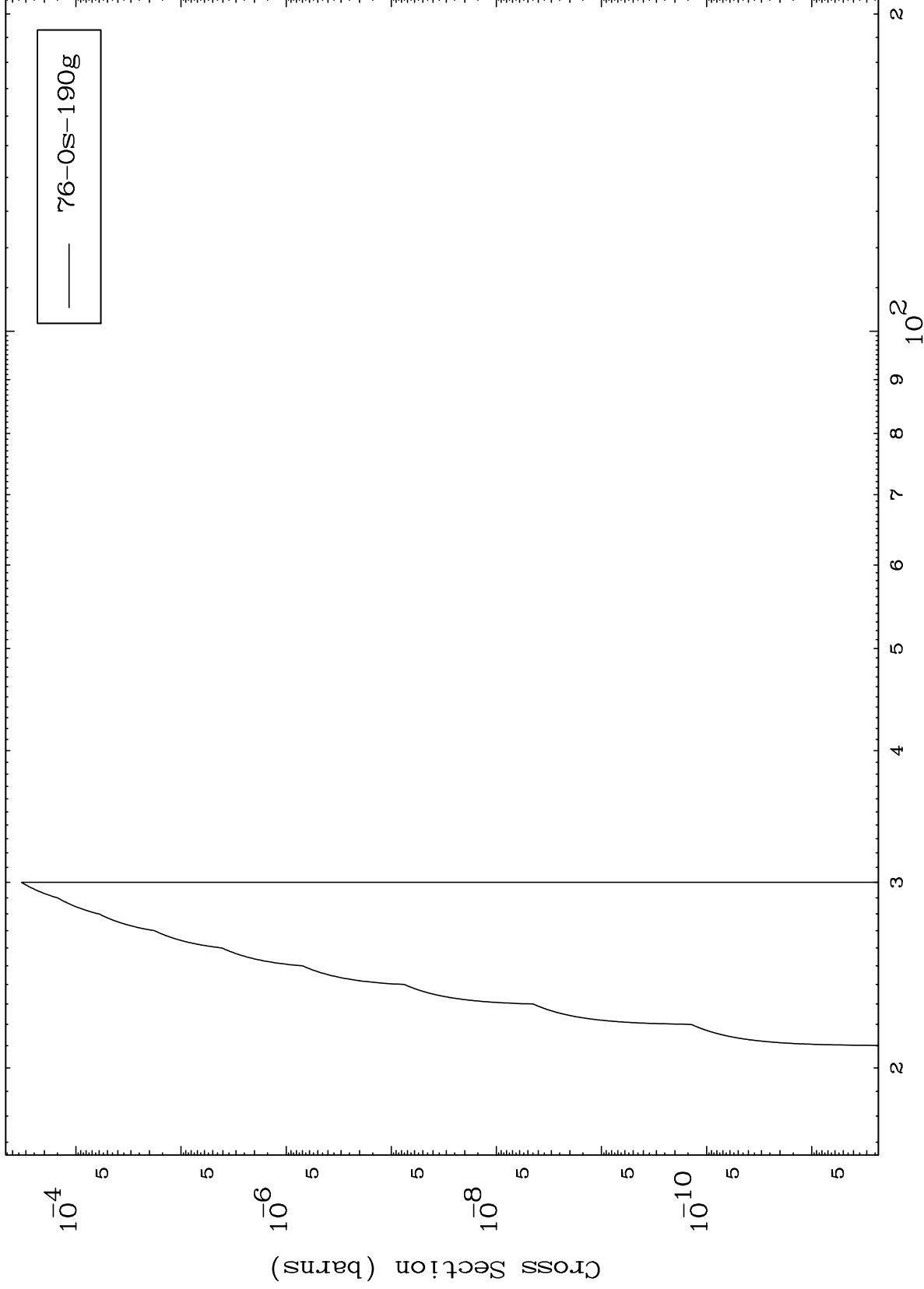
77-Ir-193

MAT 7731

(n,2n) d

77-Ir-193

Radionuclide Production Cross Section



140

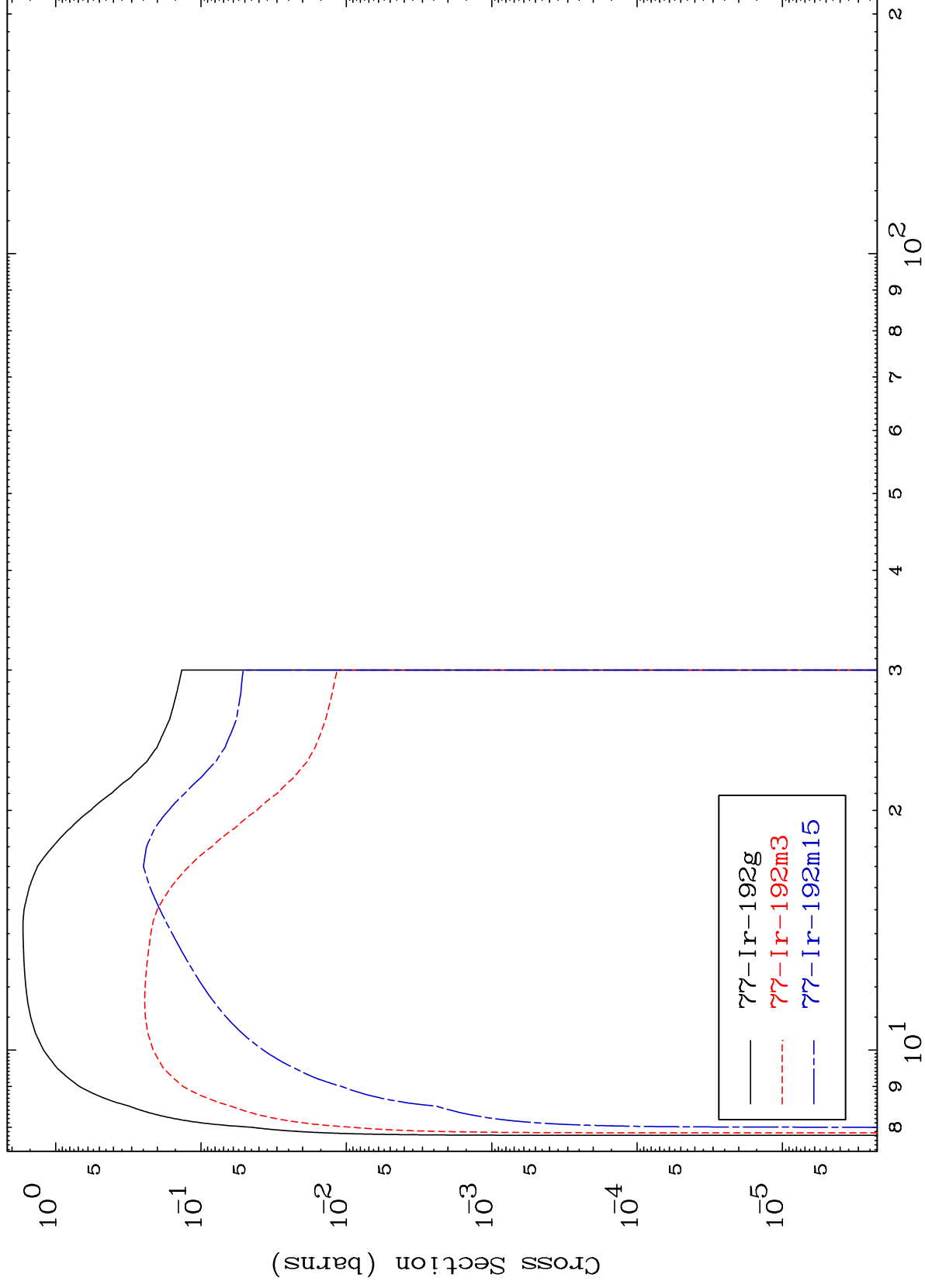
Incident Energy (MeV)

77-Ir-193

MAT 7731

⁷⁷Ir-193

Radionuclide Production Cross Section

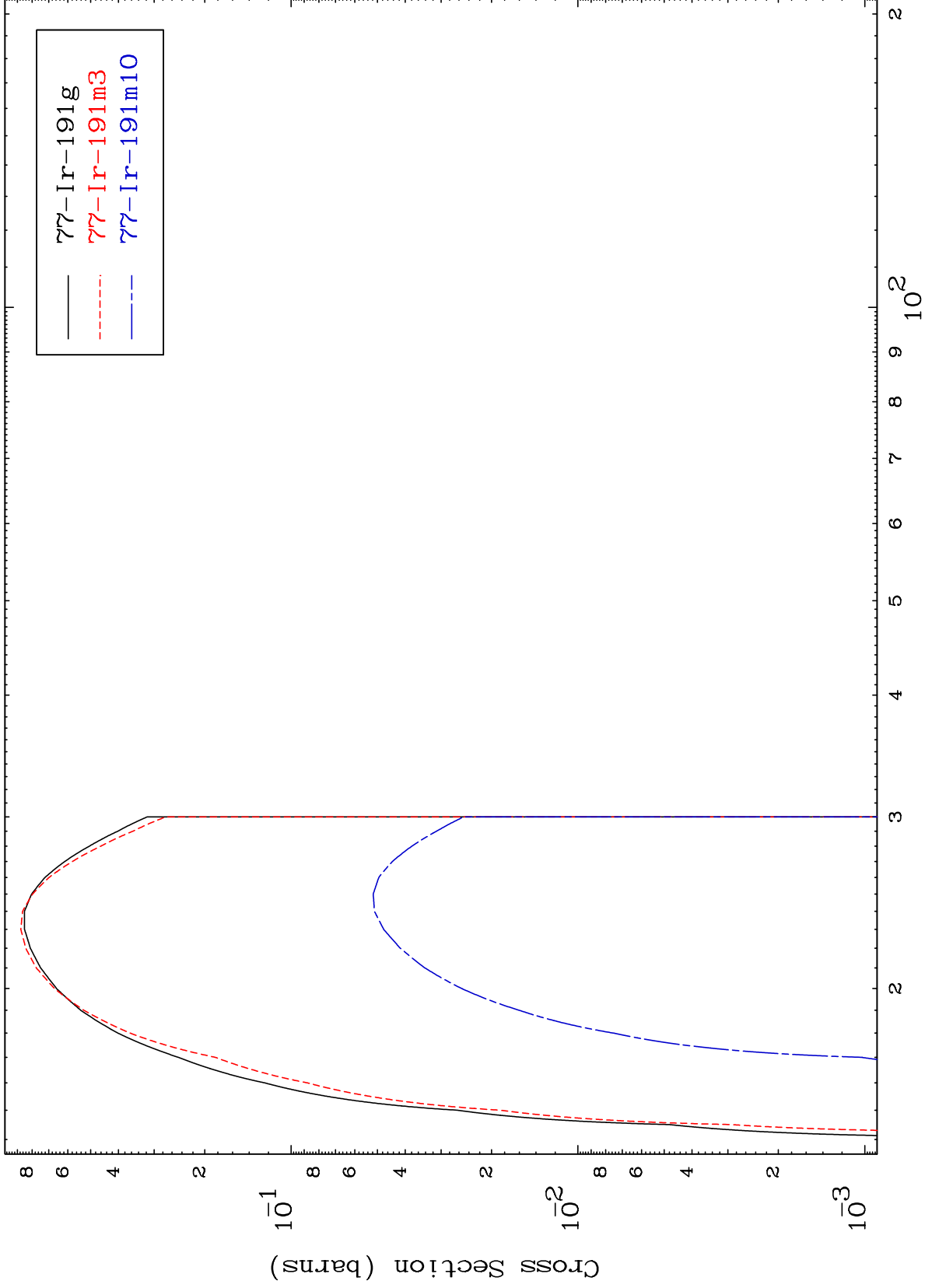


⁷⁷Ir-193

Incident Energy (MeV)

141

Radionuclide Production Cross Section

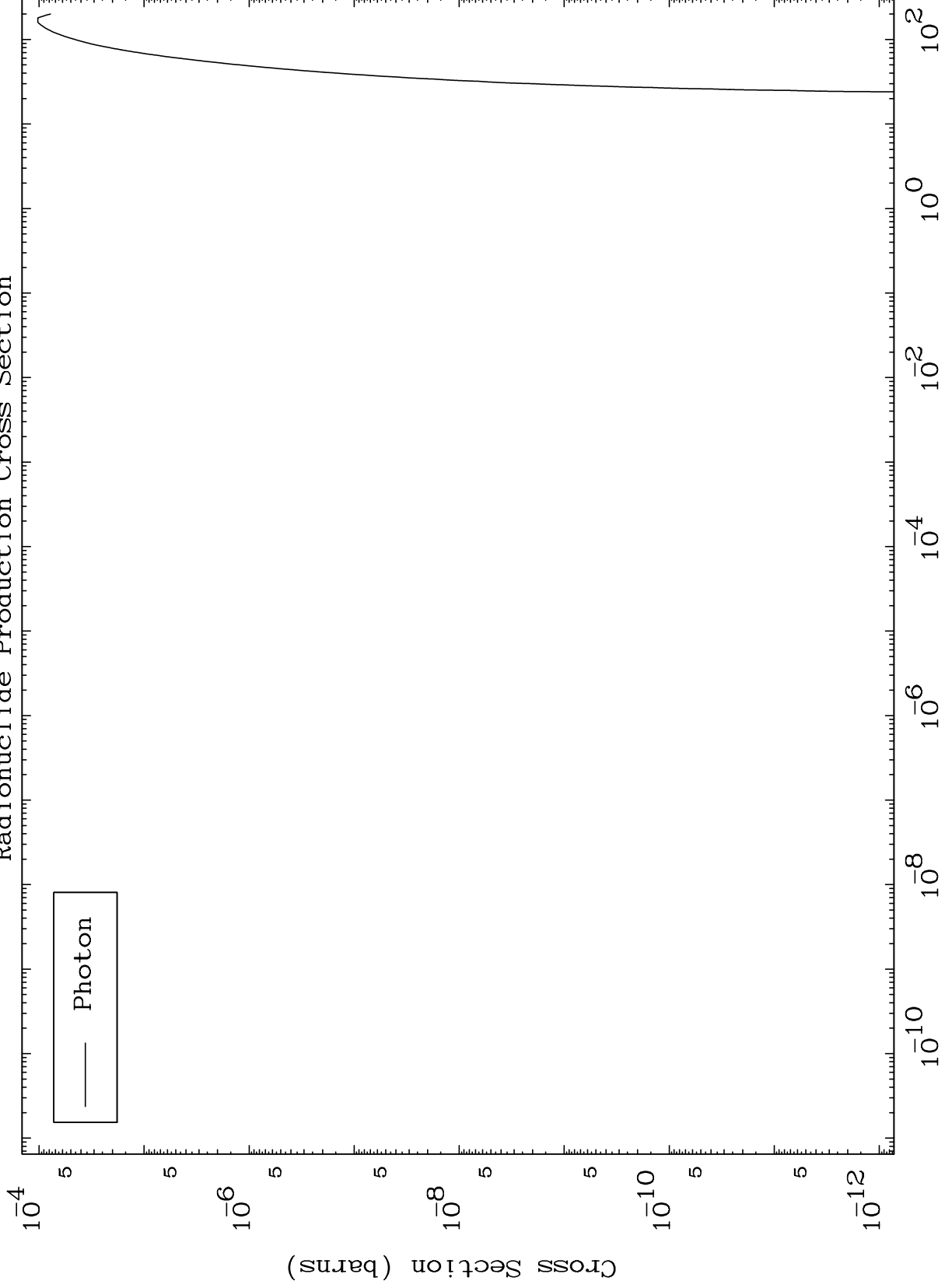


MAT 7731

Fission

77-Ir-193

Radionuclide Production Cross Section



143

Incident Energy (MeV)

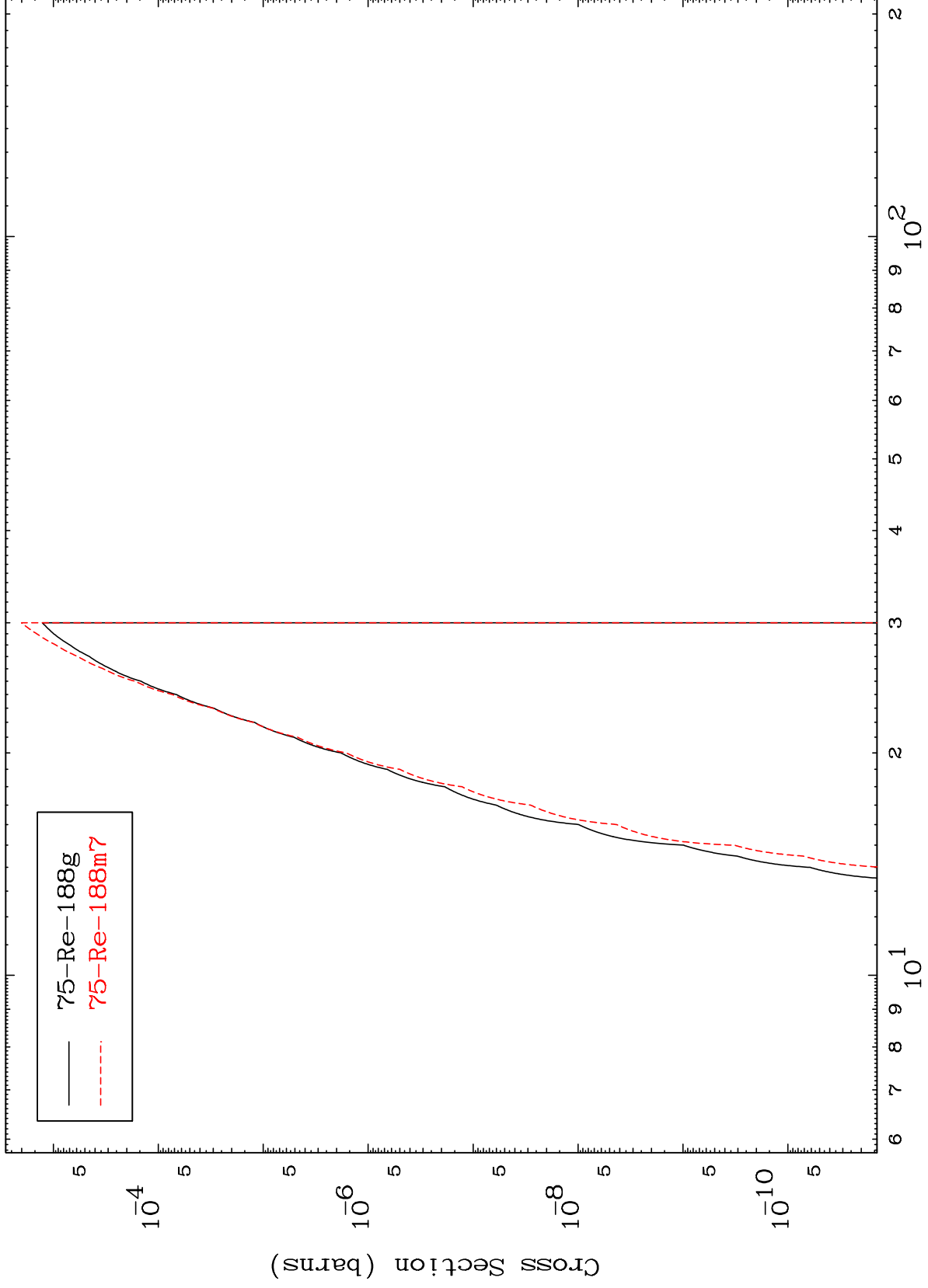
77-Ir-193

MAT 7731

$^{77}\text{Ir-193}$ α

$^{77}\text{Ir-193}$

Radionuclide Production Cross Section



144

Incident Energy (MeV)

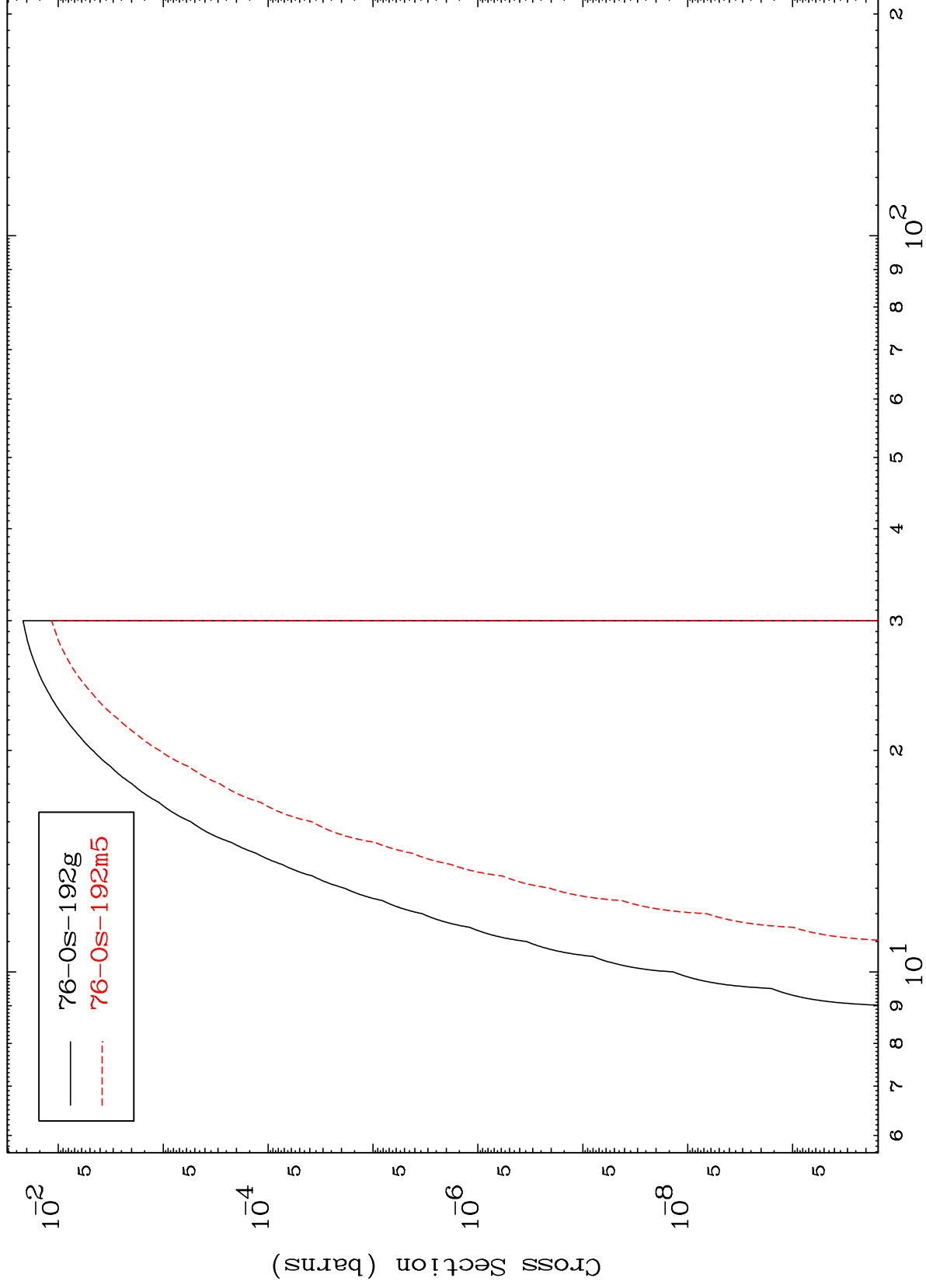
$^{77}\text{Ir-193}$

MAT 7731

(n,n') p

⁷⁷Ir-193

Radionuclide Production Cross Section

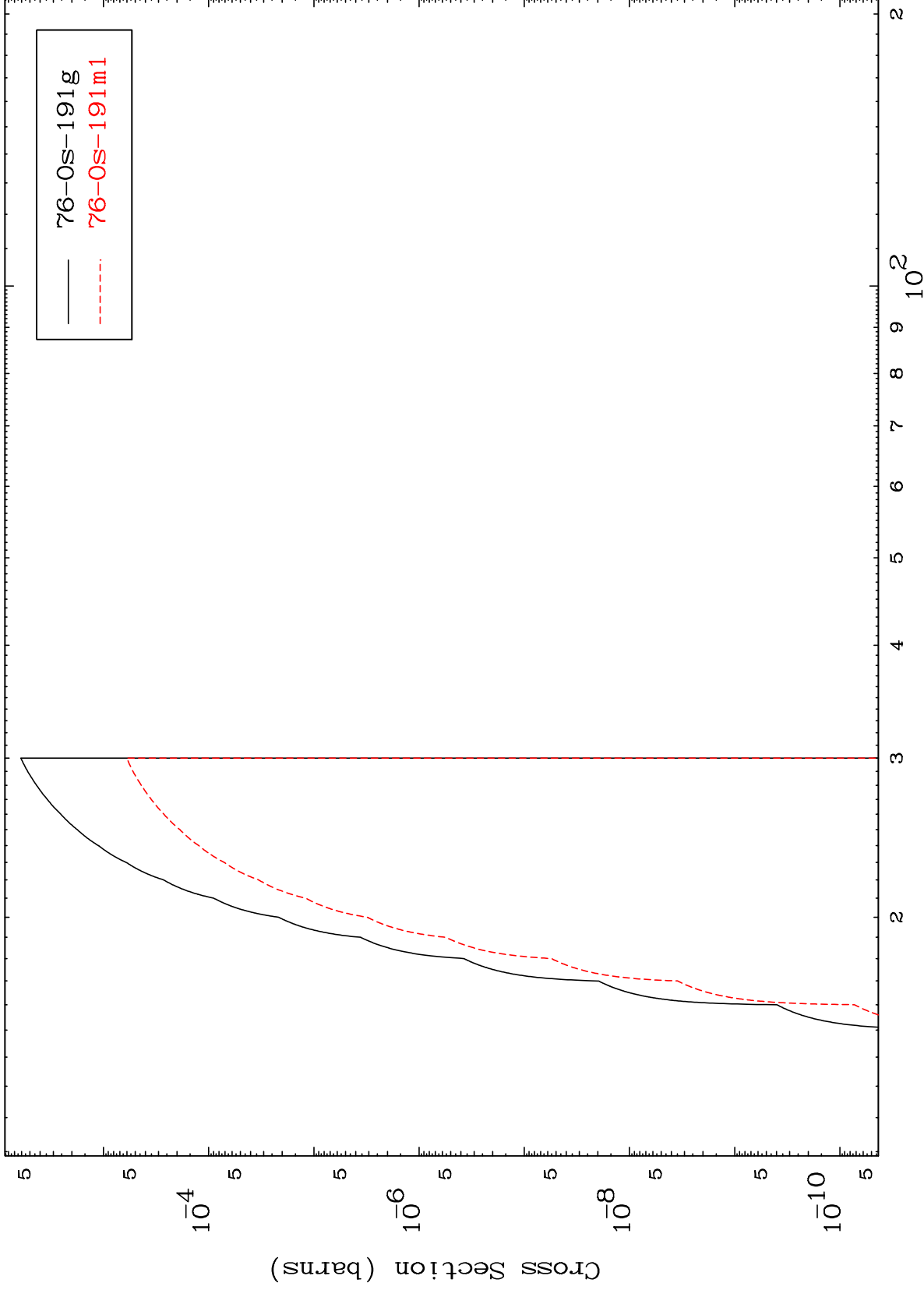


145

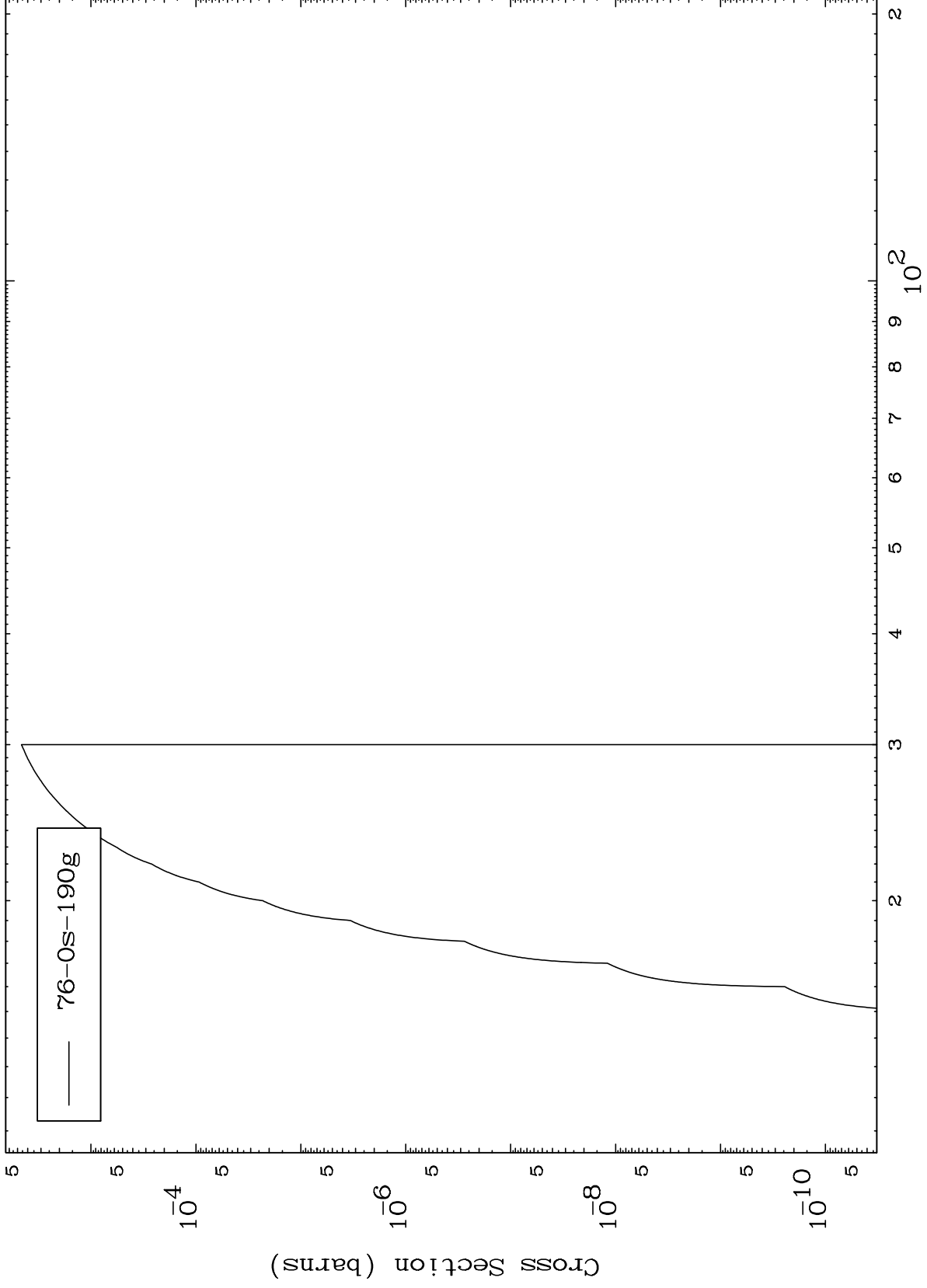
Incident Energy (MeV)

⁷⁷Ir-193

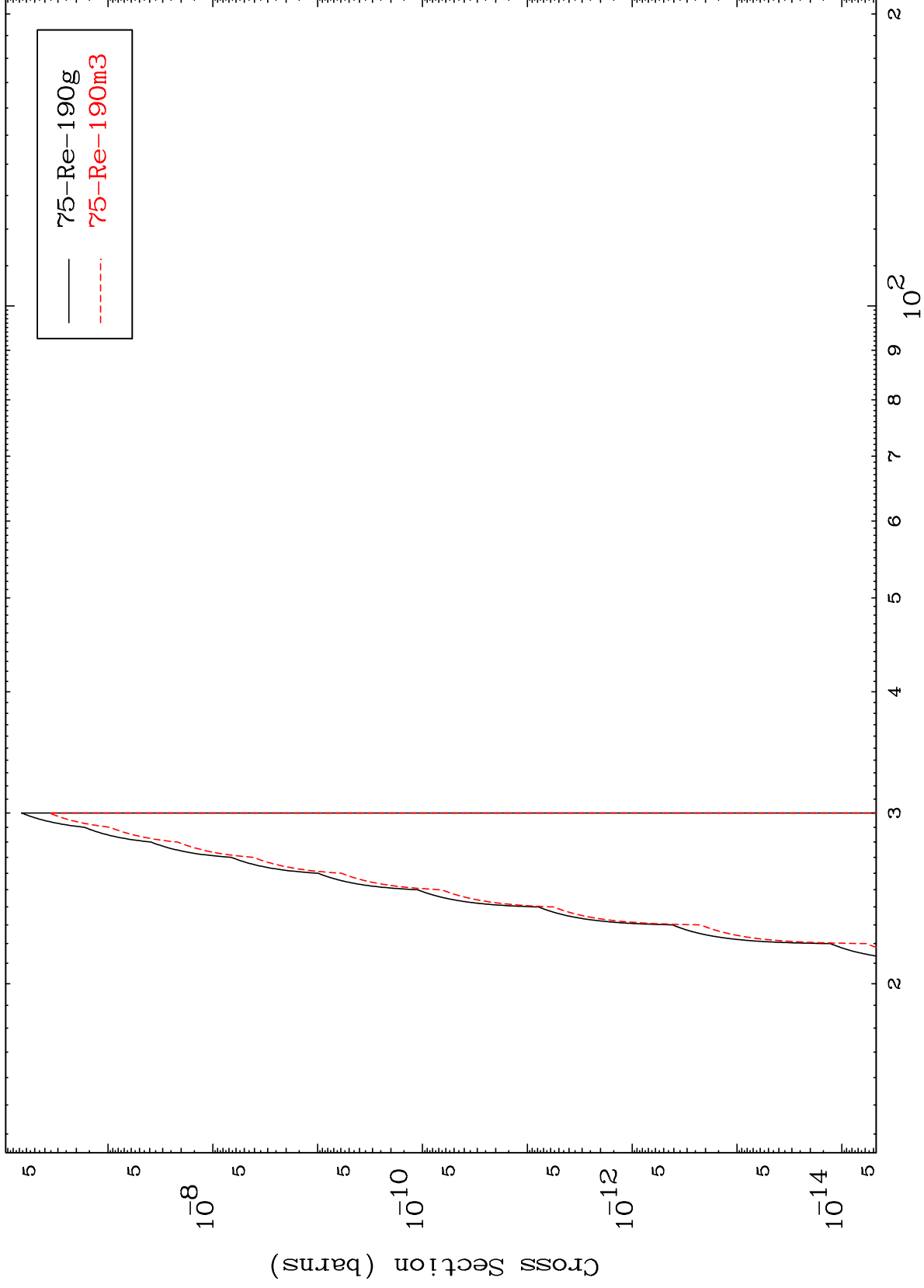
Radionuclide Production Cross Section



Radionuclide Production Cross Section



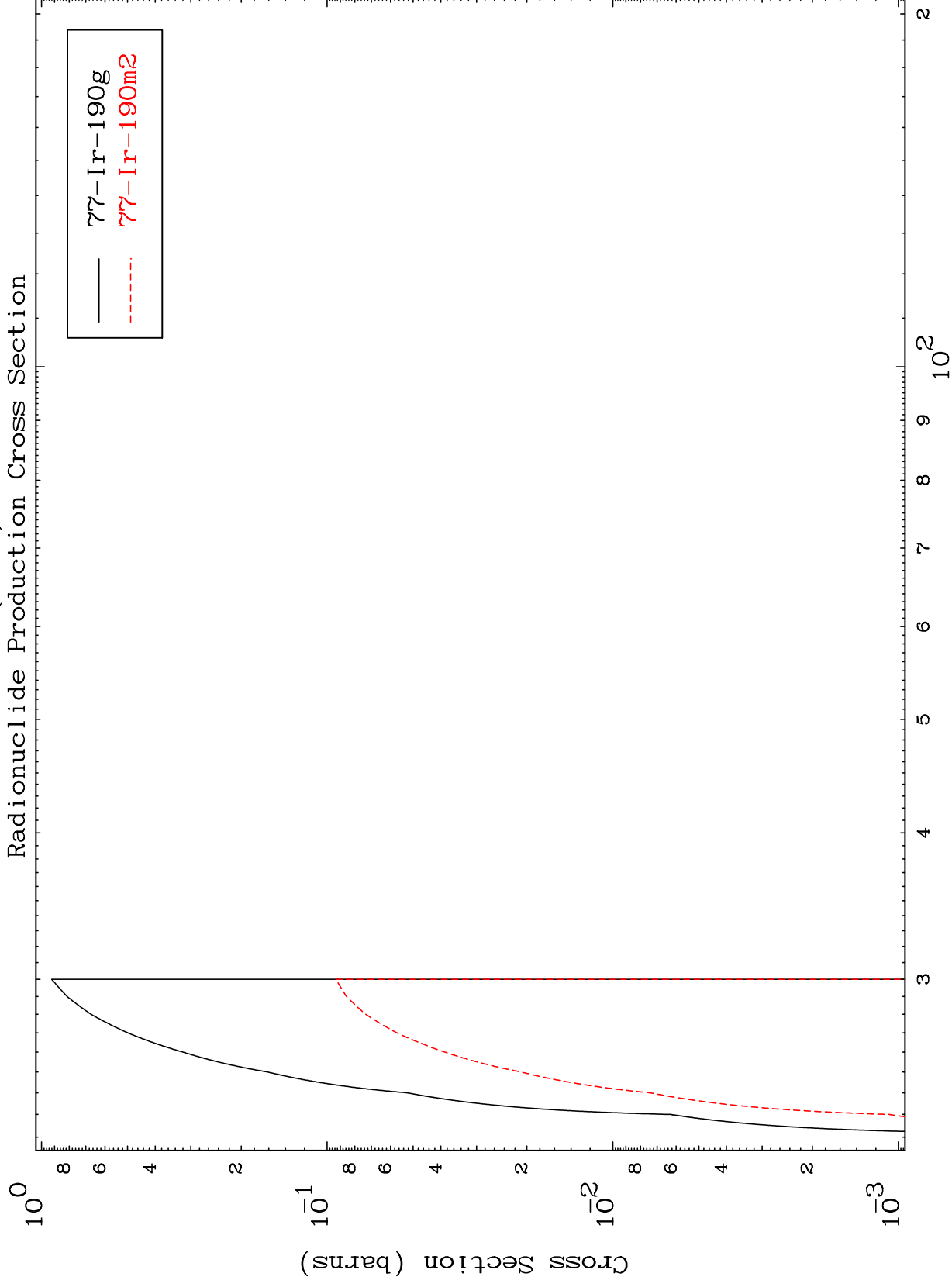
Radionuclide Production Cross Section



MAT 7731

77-Ir-193

(n,4n)
Radionuclide Production Cross Section



149

Incident Energy (MeV)

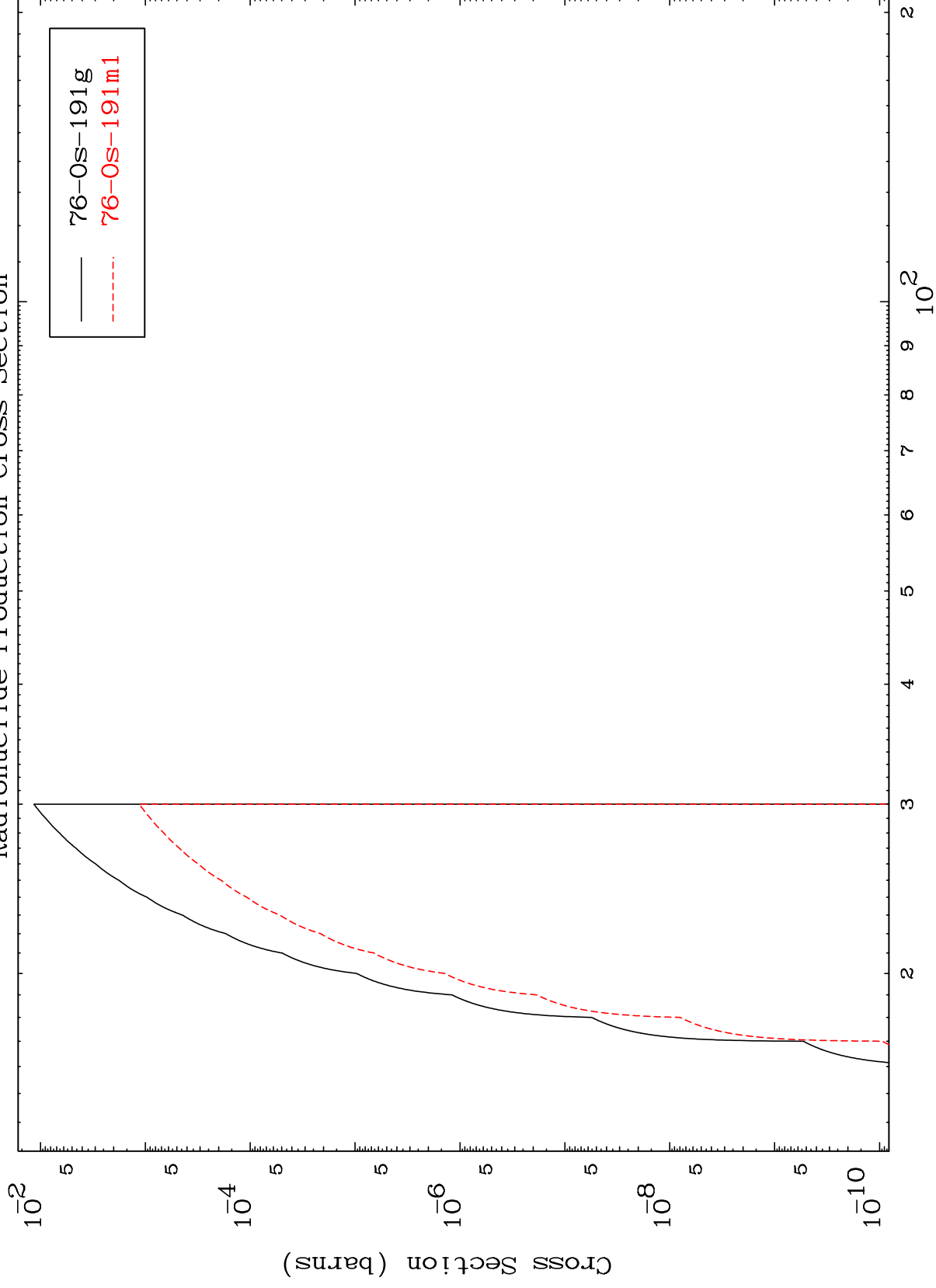
77-Ir-193

MAT 7731

77-Ir-193

(n,2n) p

Radionuclide Production Cross Section



150

Incident Energy (MeV)

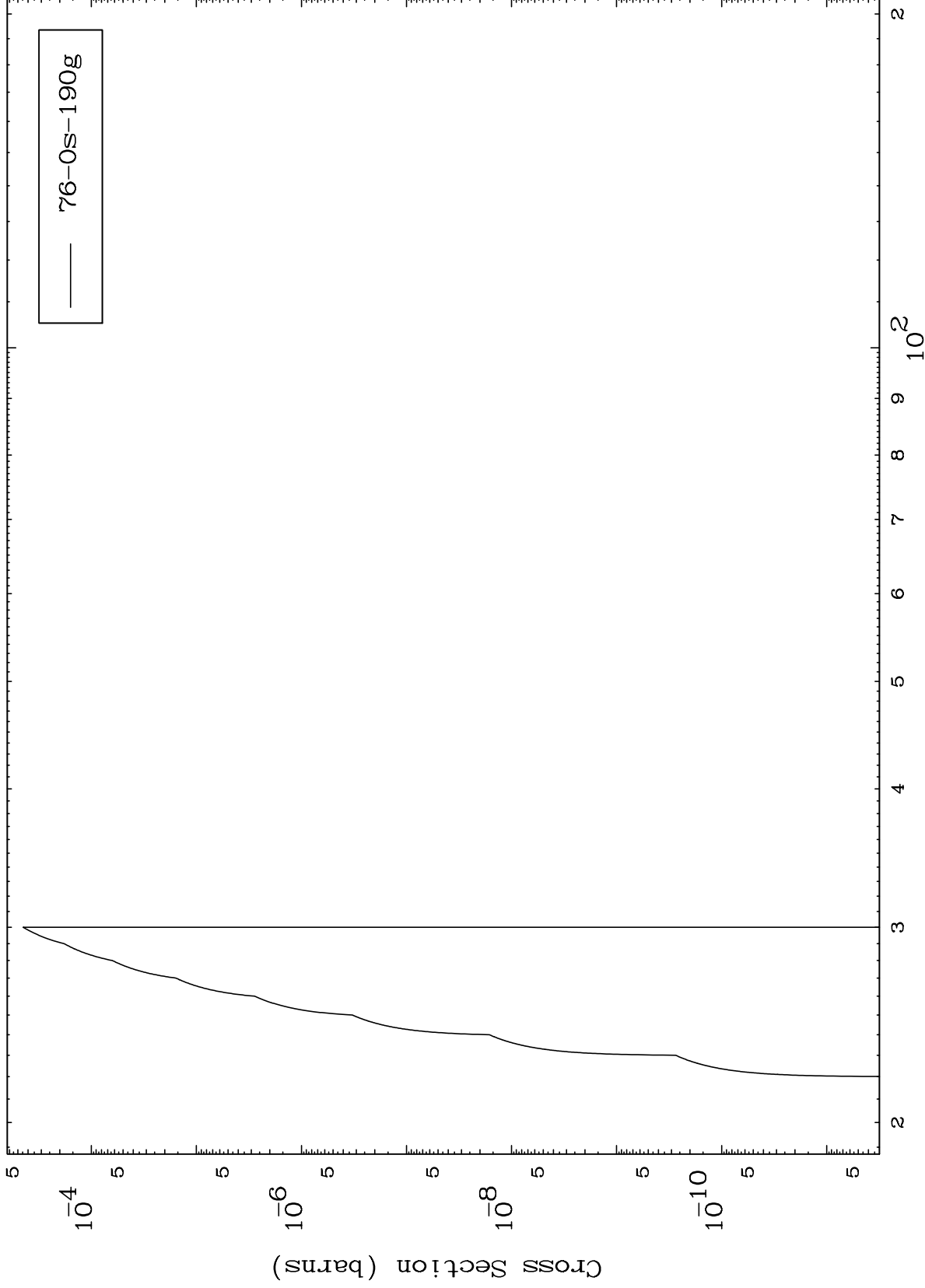
77-Ir-193

MAT 7731

(n,3n) p

77-Ir-193

Radionuclide Production Cross Section



151

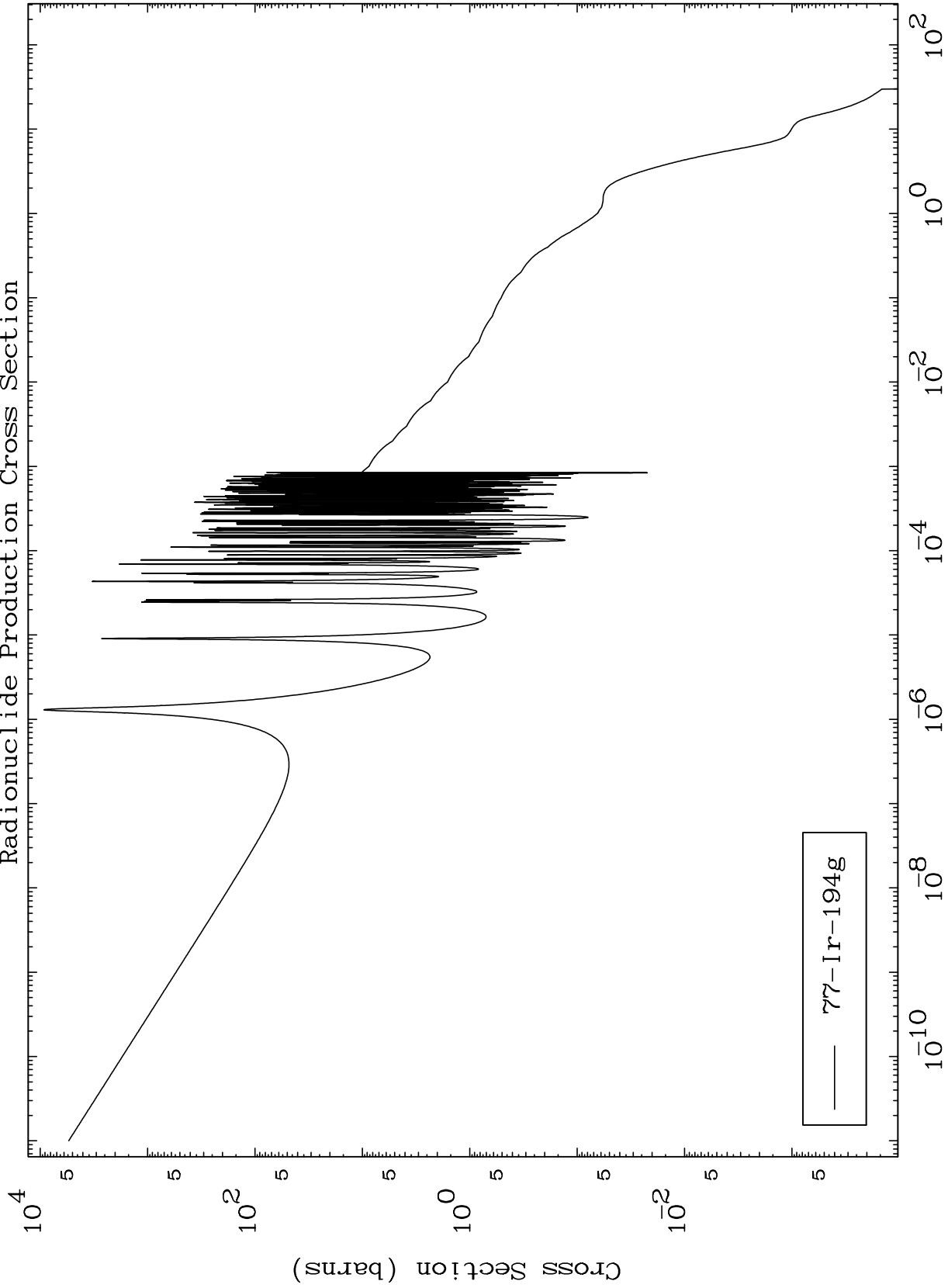
Incident Energy (MeV)

77-Ir-193

MAT 7731

77-Ir-193

Radionuclide Production Cross Section



152

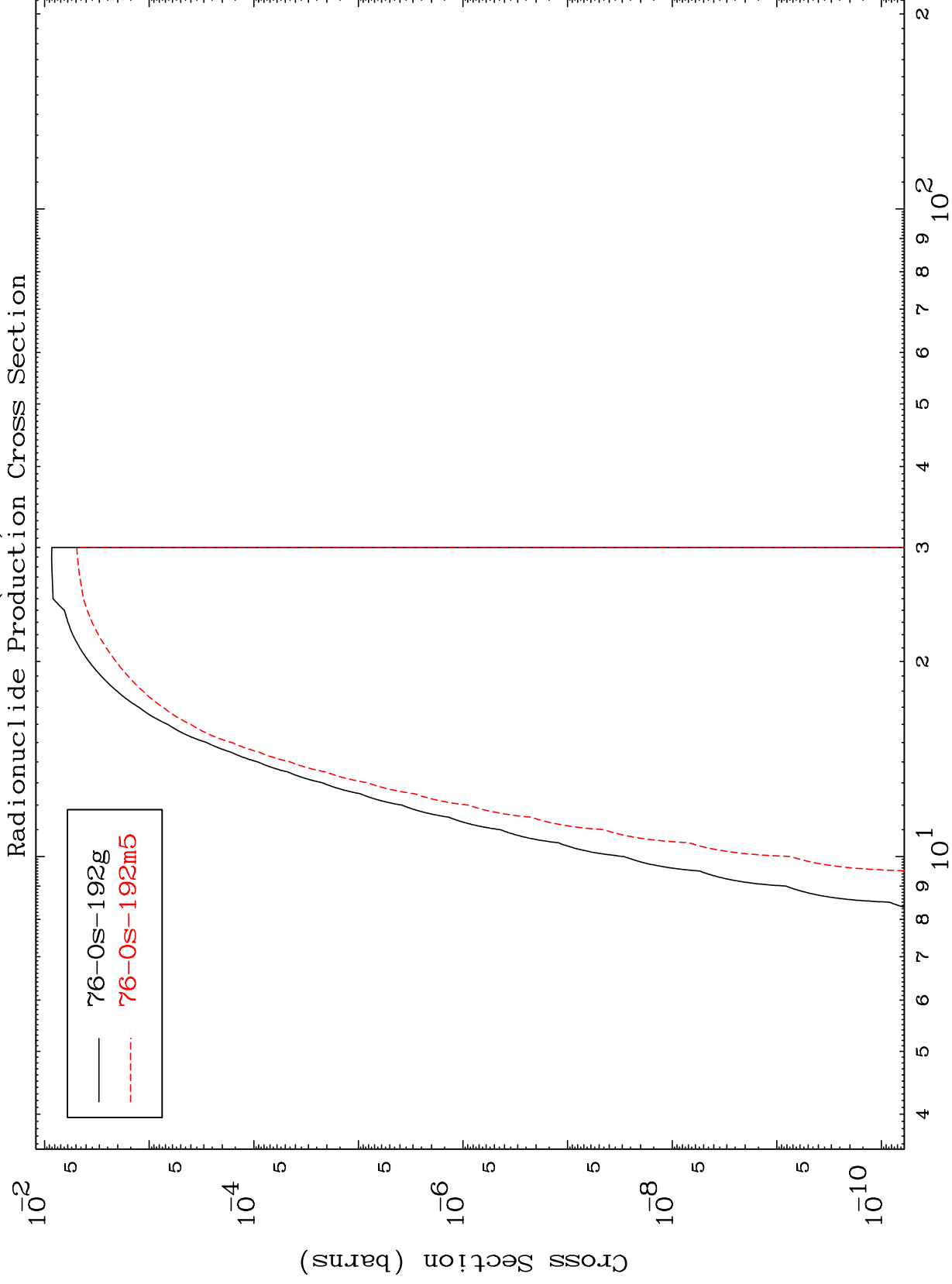
Incident Energy (MeV)

77-Ir-193

MAT 7731

(n,d)

⁷⁷Ir-193



153

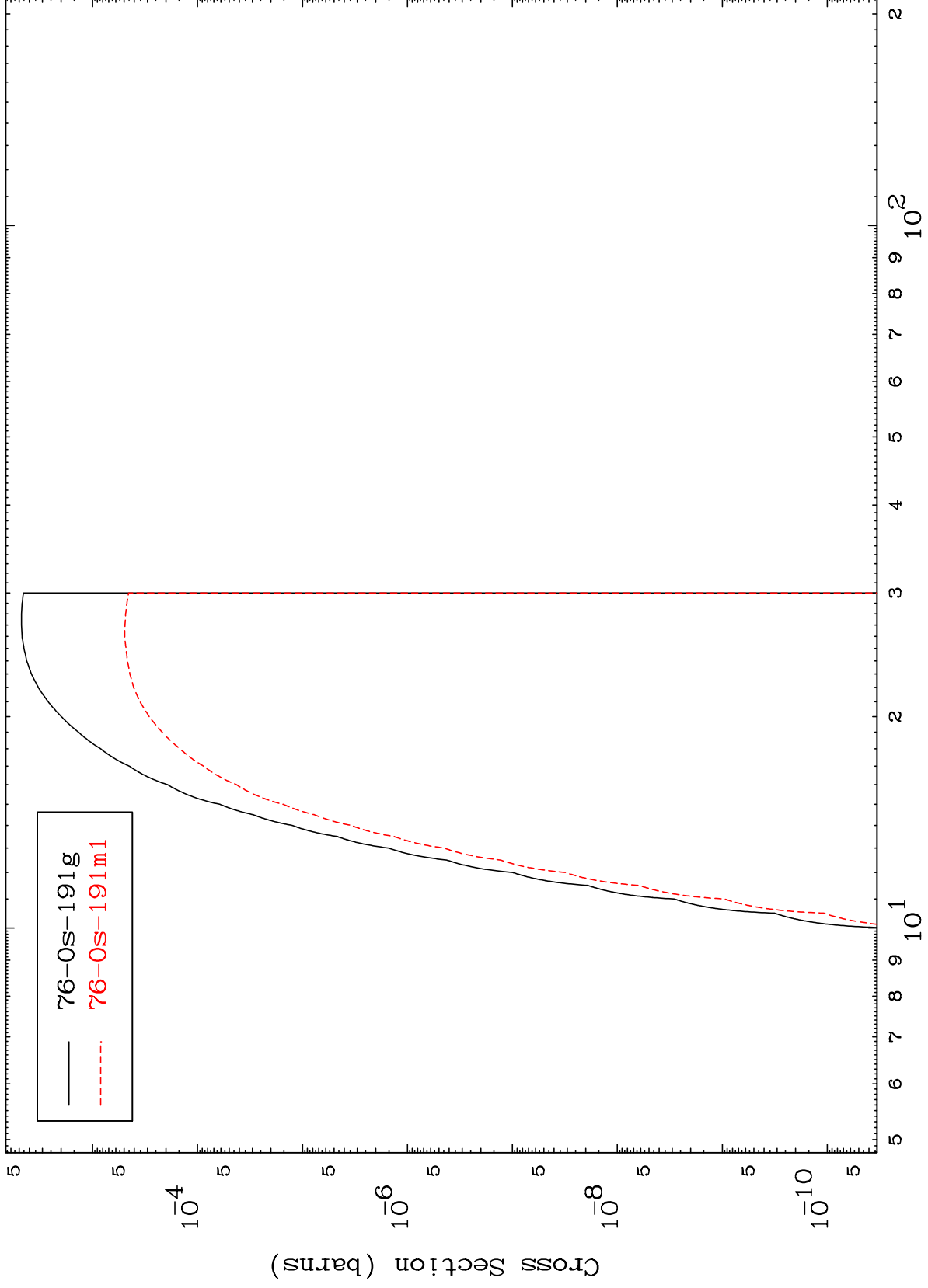
Incident Energy (MeV)

⁷⁷Ir-193

MAT 7731

77-Ir-193

(n,t)
Radionuclide Production Cross Section



154

Incident Energy (MeV)

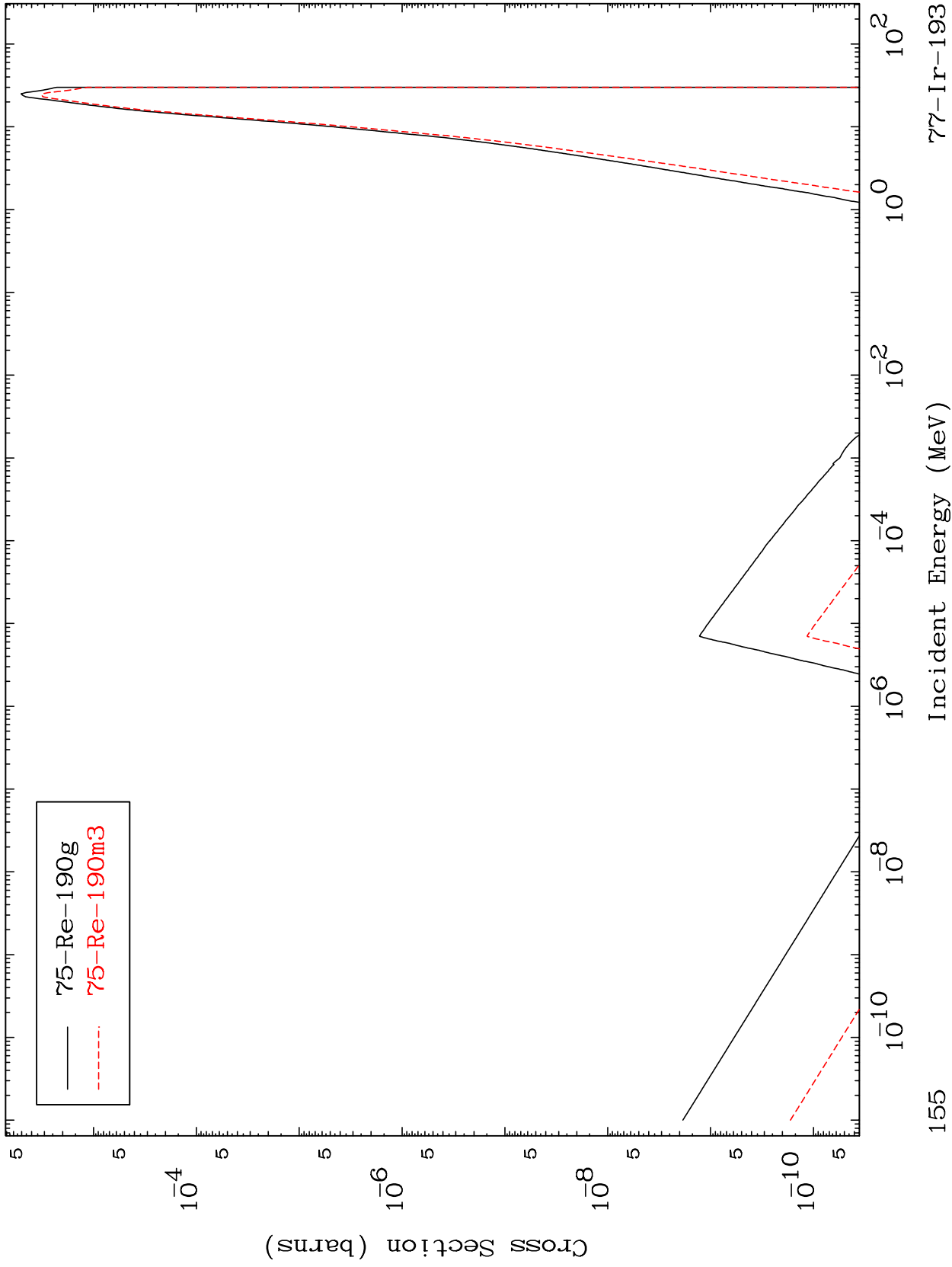
77-Ir-193

MAT 7731

(n, α)

⁷⁷Ir-193

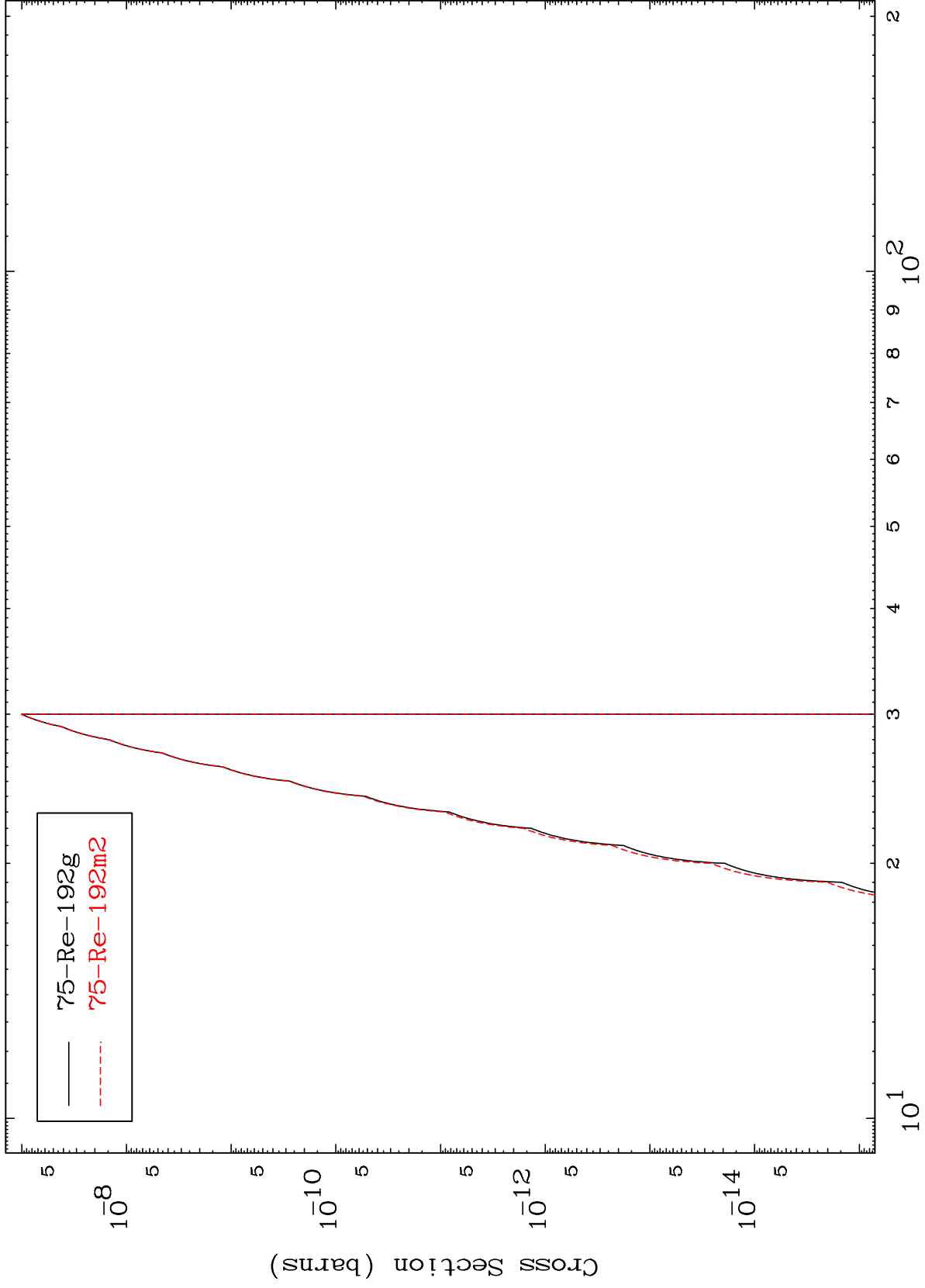
Radionuclide Production Cross Section



MAT 7731

77-Ir-193

(n,2p)
Radionuclide Production Cross Section



156

Incident Energy (MeV)

77-Ir-193