

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

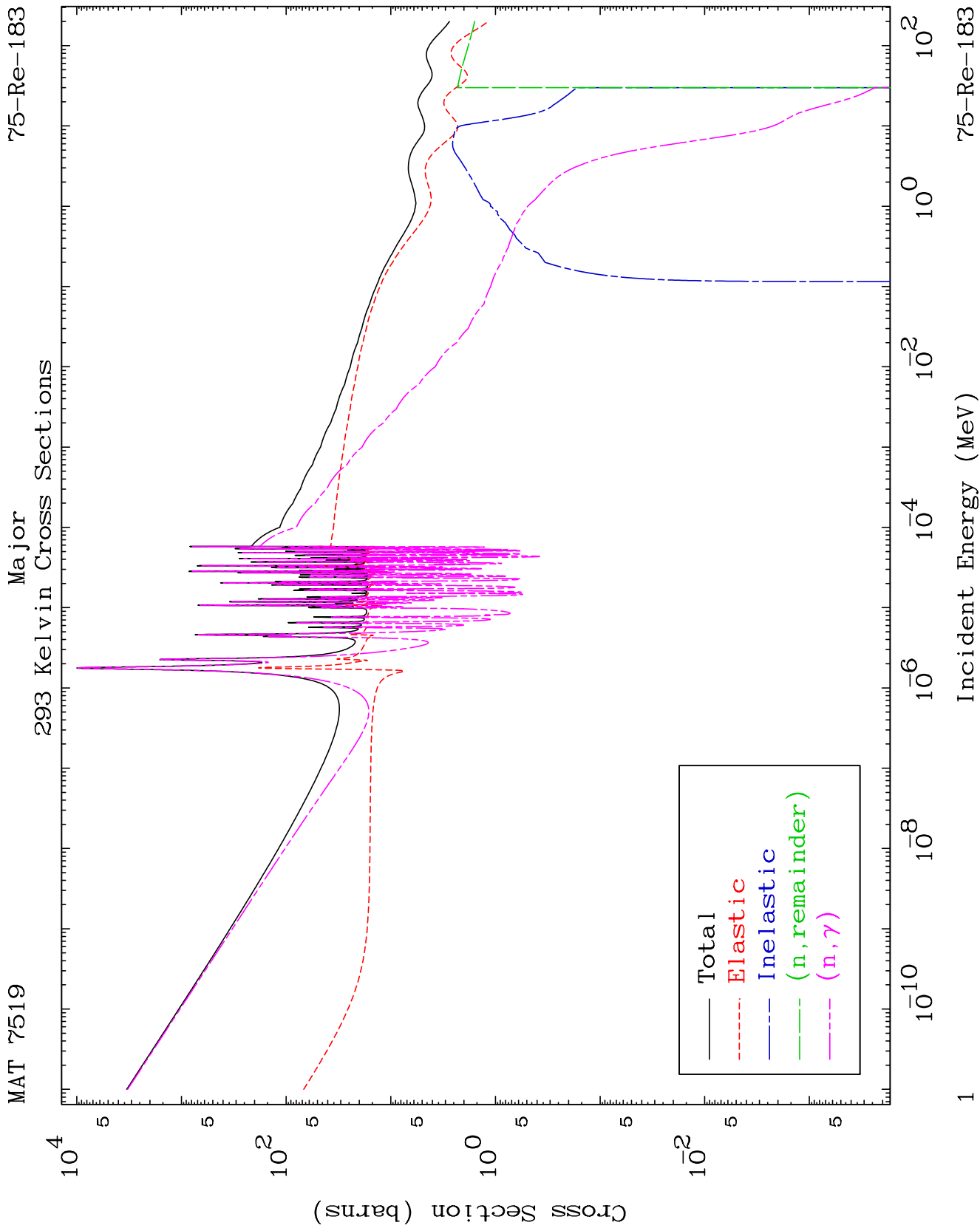
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

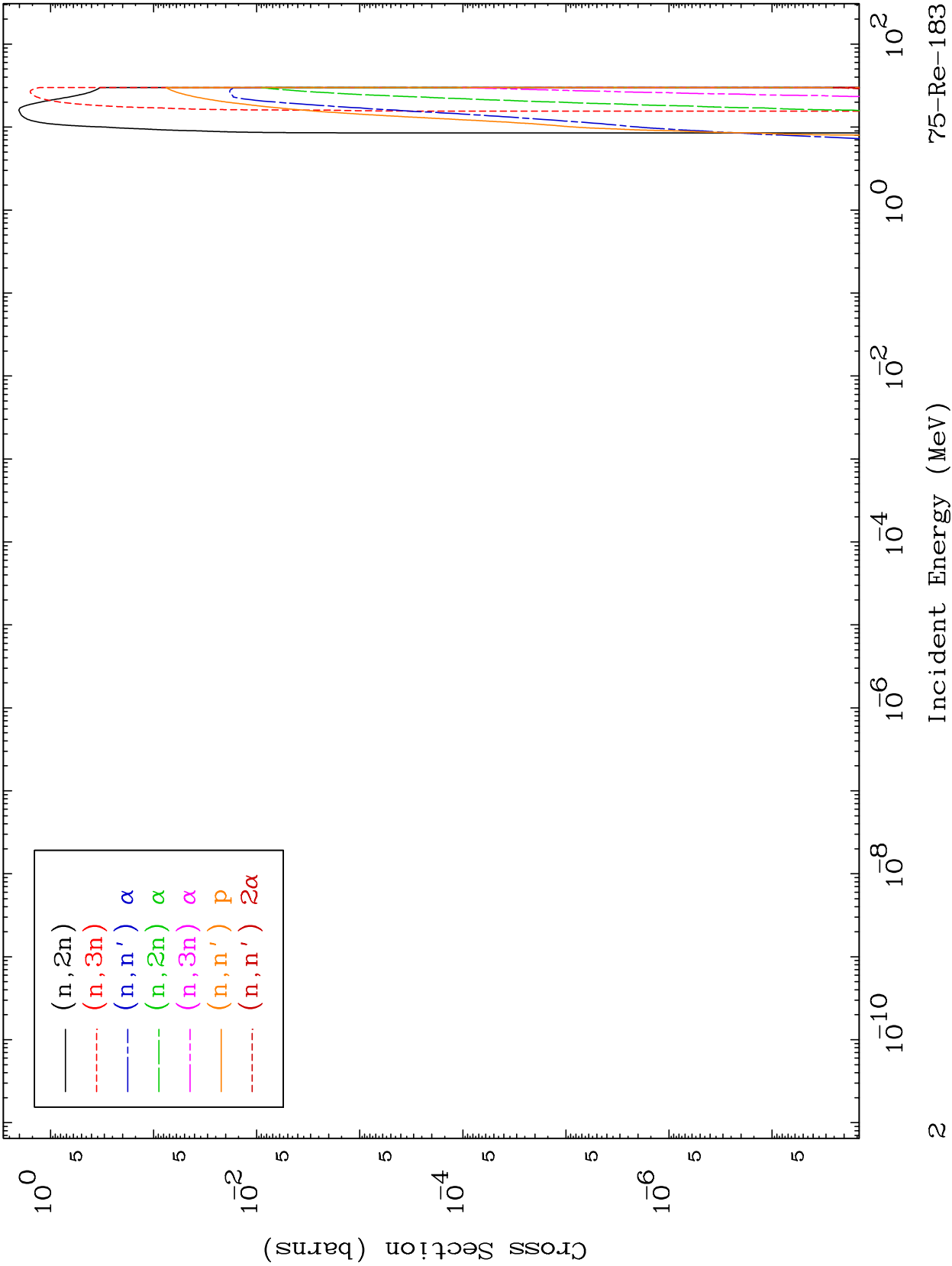
Press Mouse Button to Start

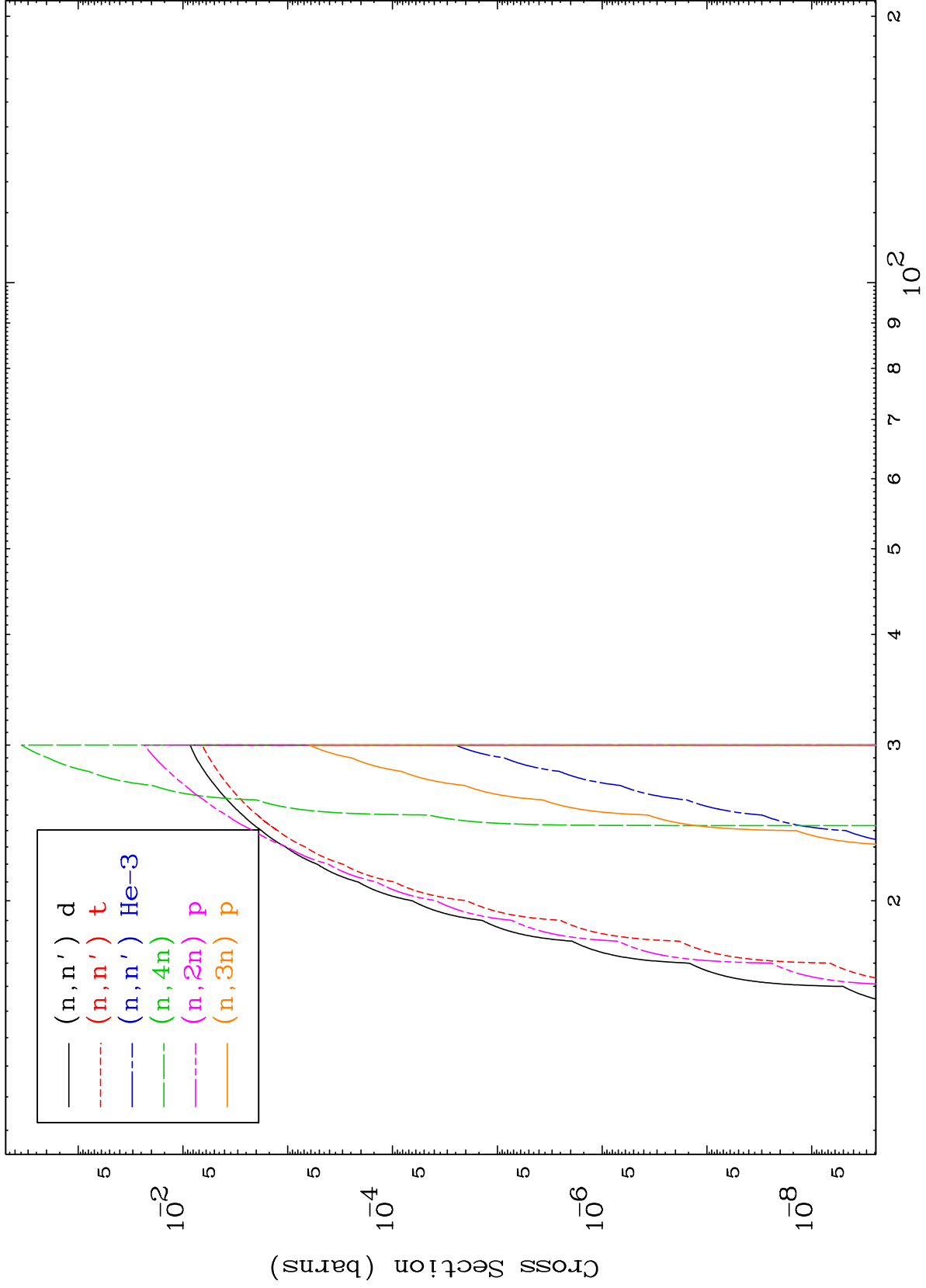


MAT 7519

Neutron Production
293 Kelvin Cross Sections

75-Re-183

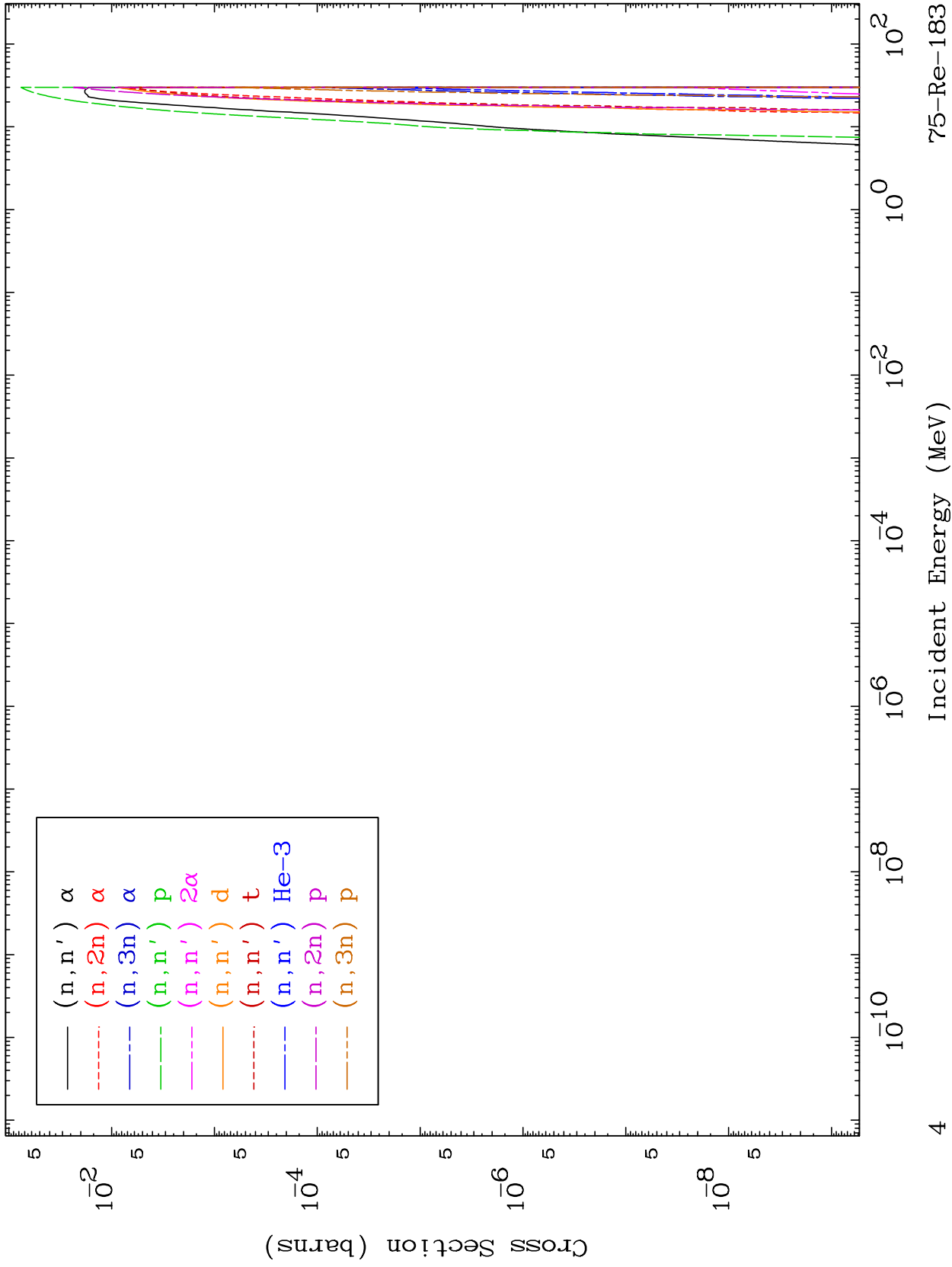




MAT 7519

Charged Particle
293 Kelvin Cross Sections

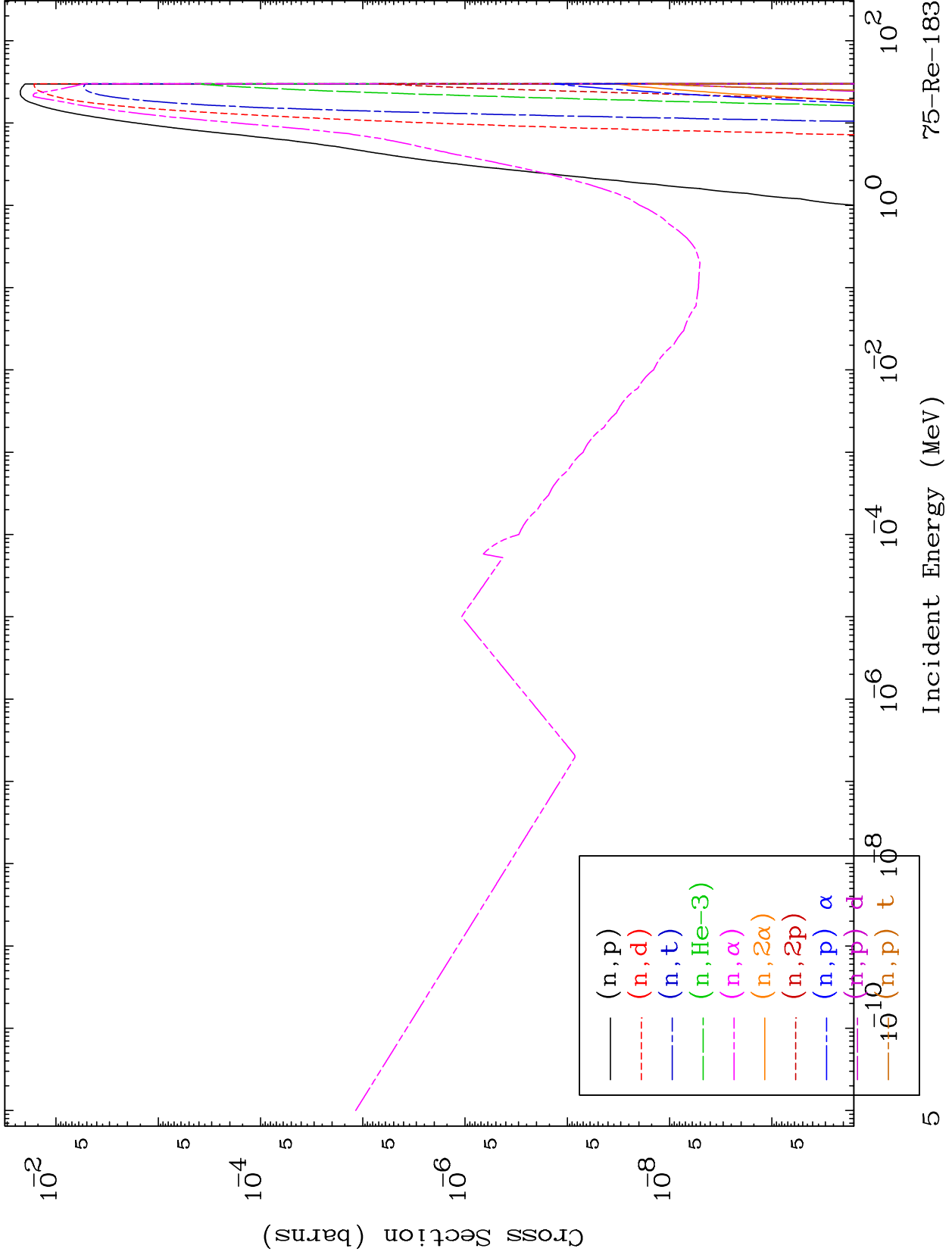
75-Re-183



MAT 7519

Charged Particle
293 Kelvin Cross Sections

75-Re-183



75-Re-183

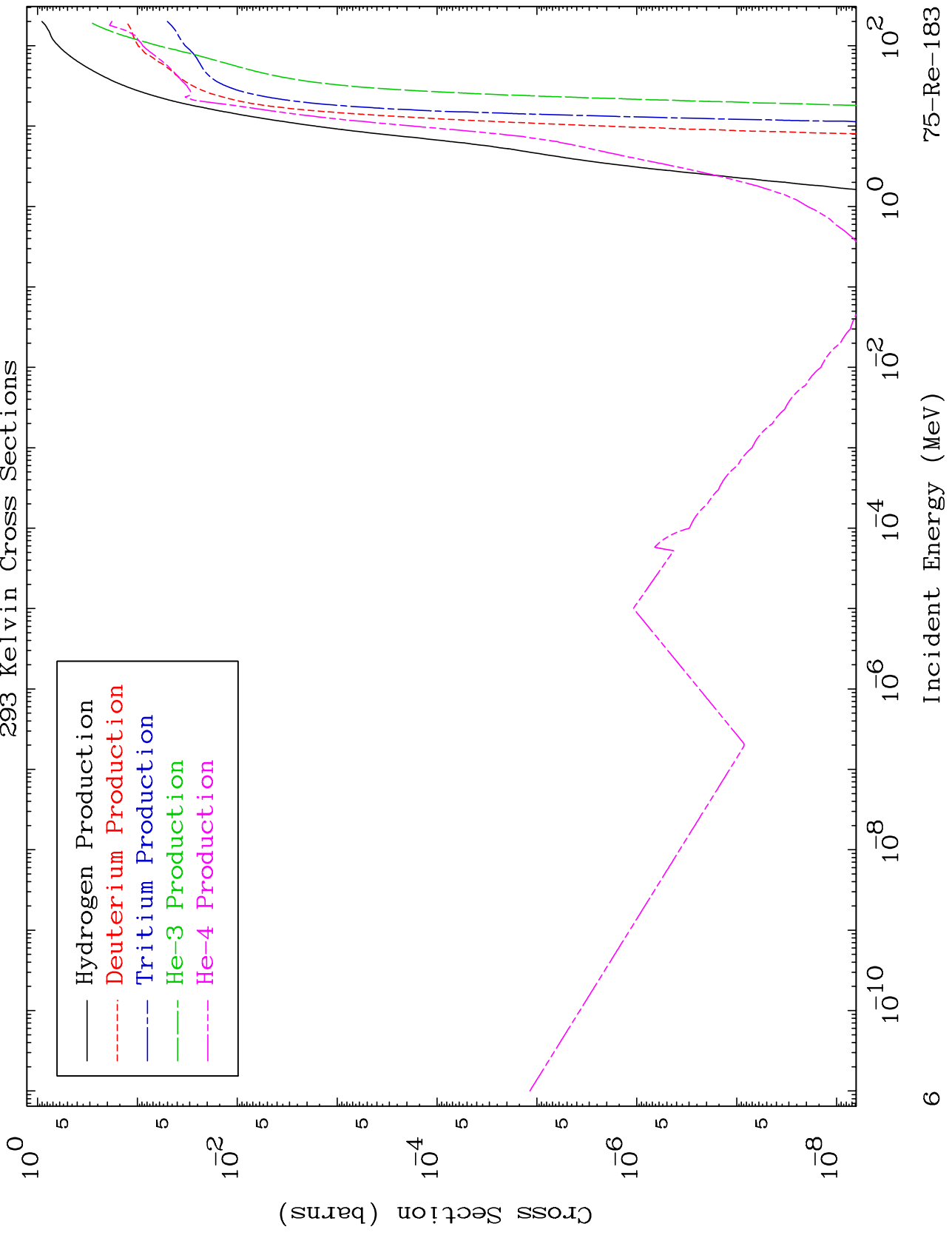
Incident Energy (MeV)

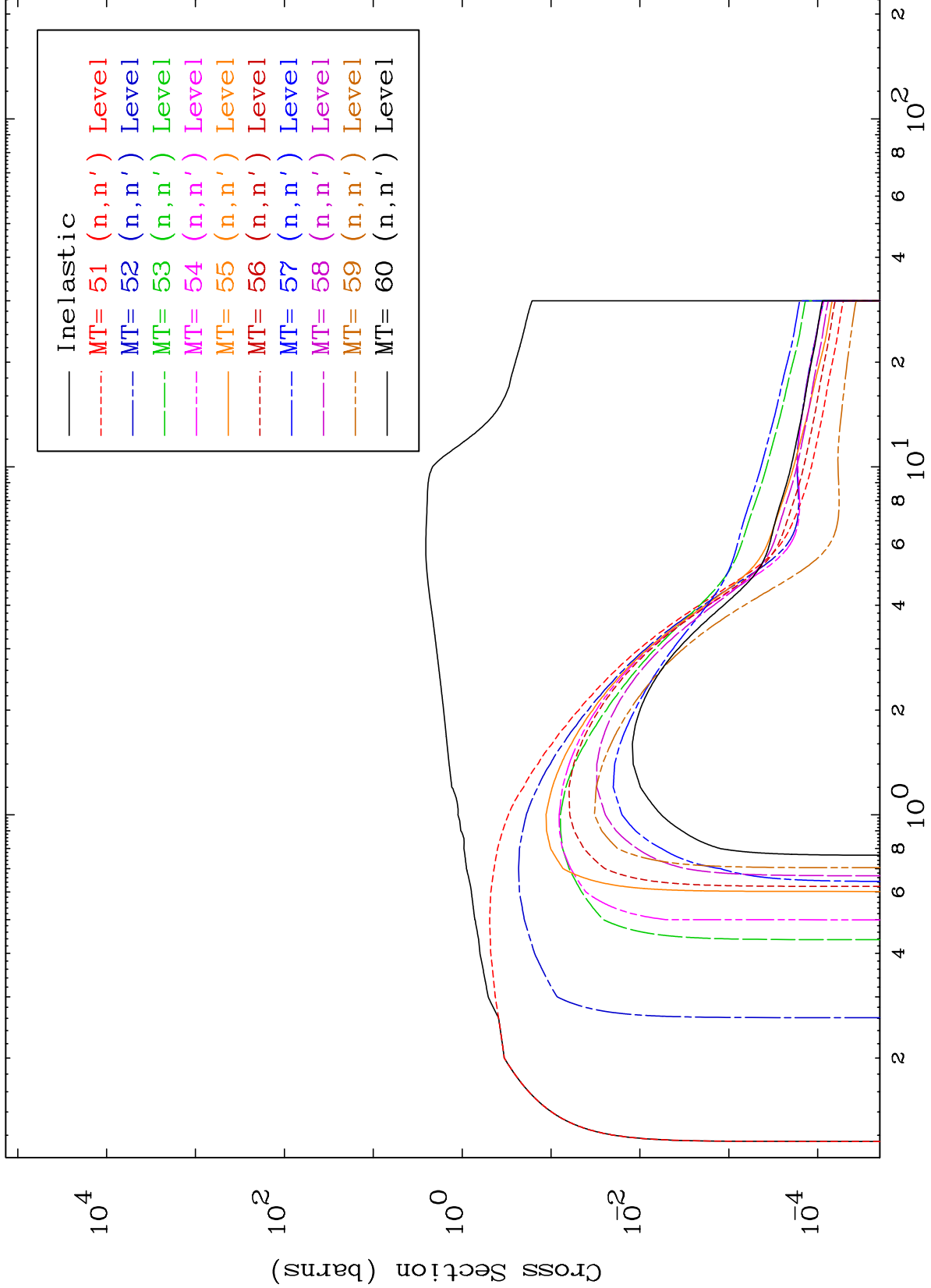
5

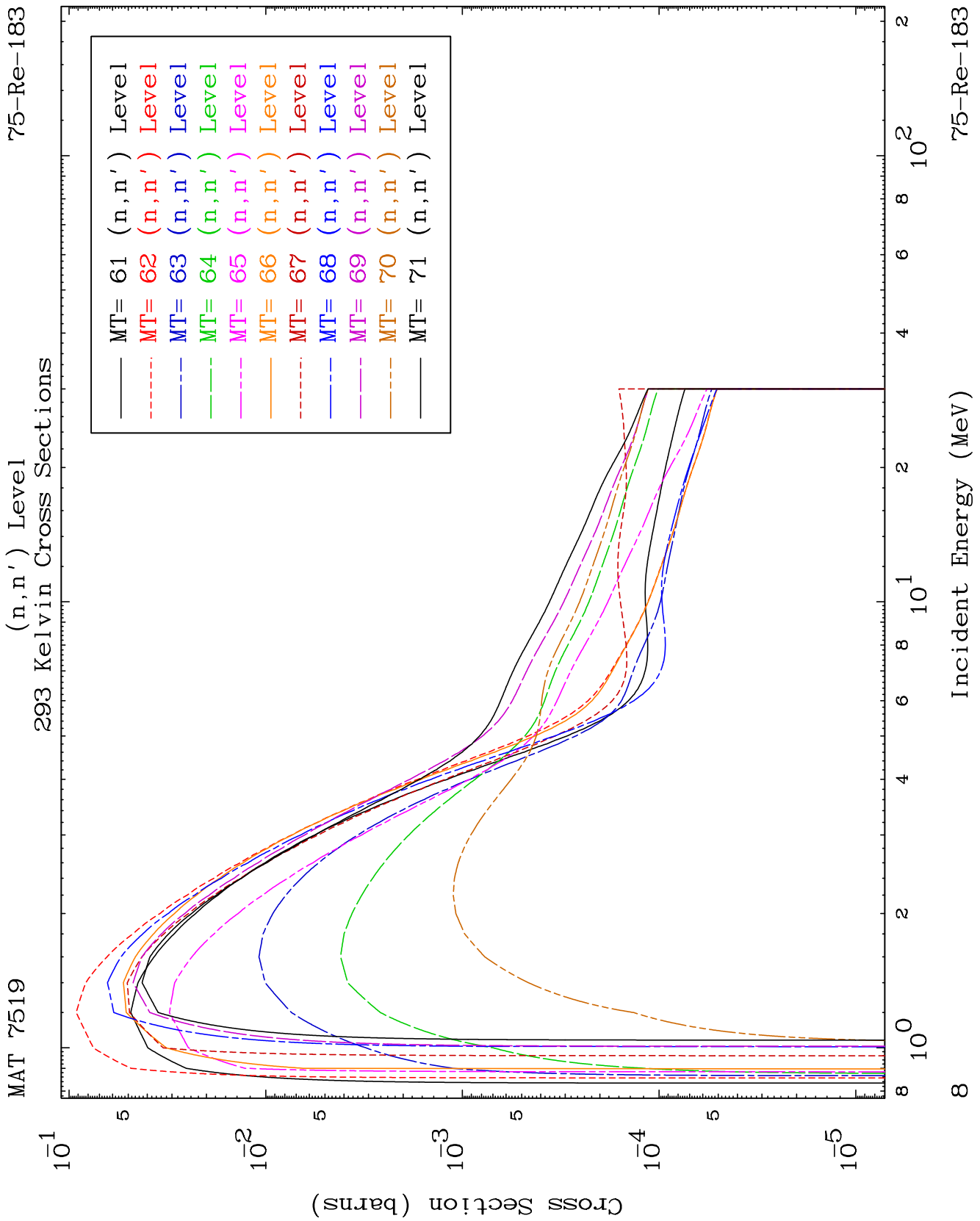
MAT 7519

Particle Production
293 Kelvin Cross Sections

75-Re-183





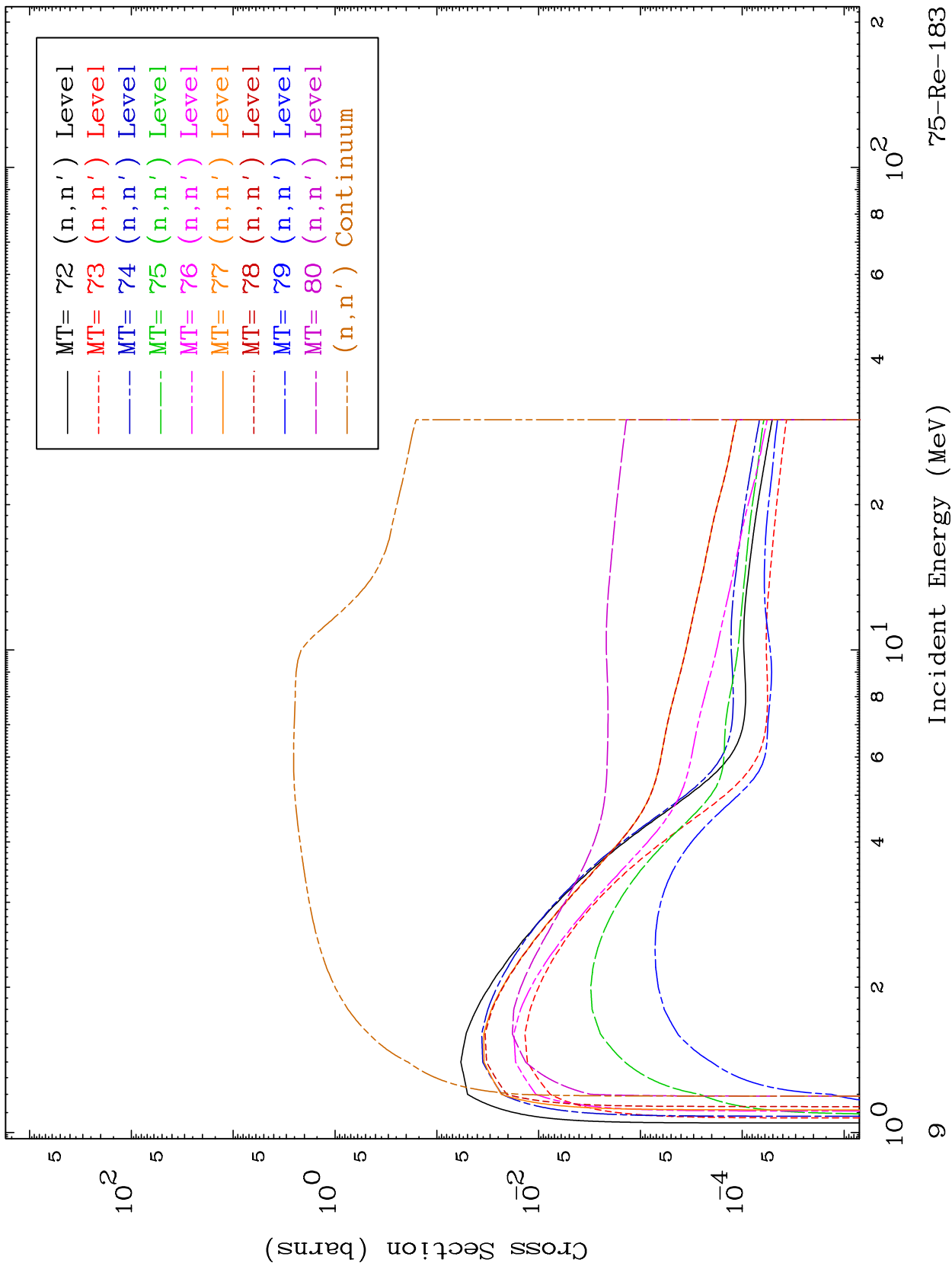


MAT 7519

(n,n') Level

75-Re-183

293 Kelvin Cross Sections



75-Re-183

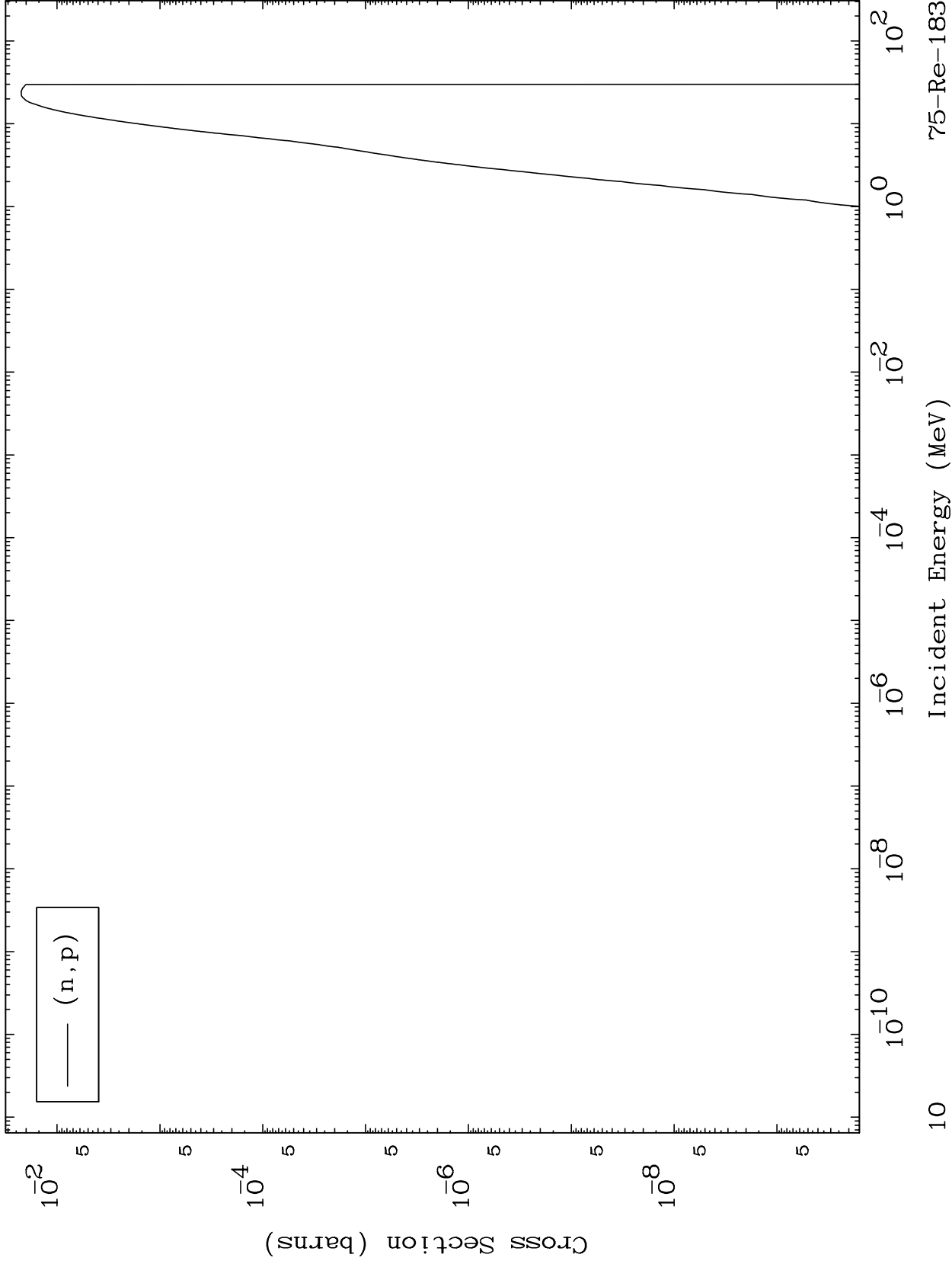
Incident Energy (MeV)

9

MAT 7519

(n,p) Levels
293 Kelvin Cross Sections

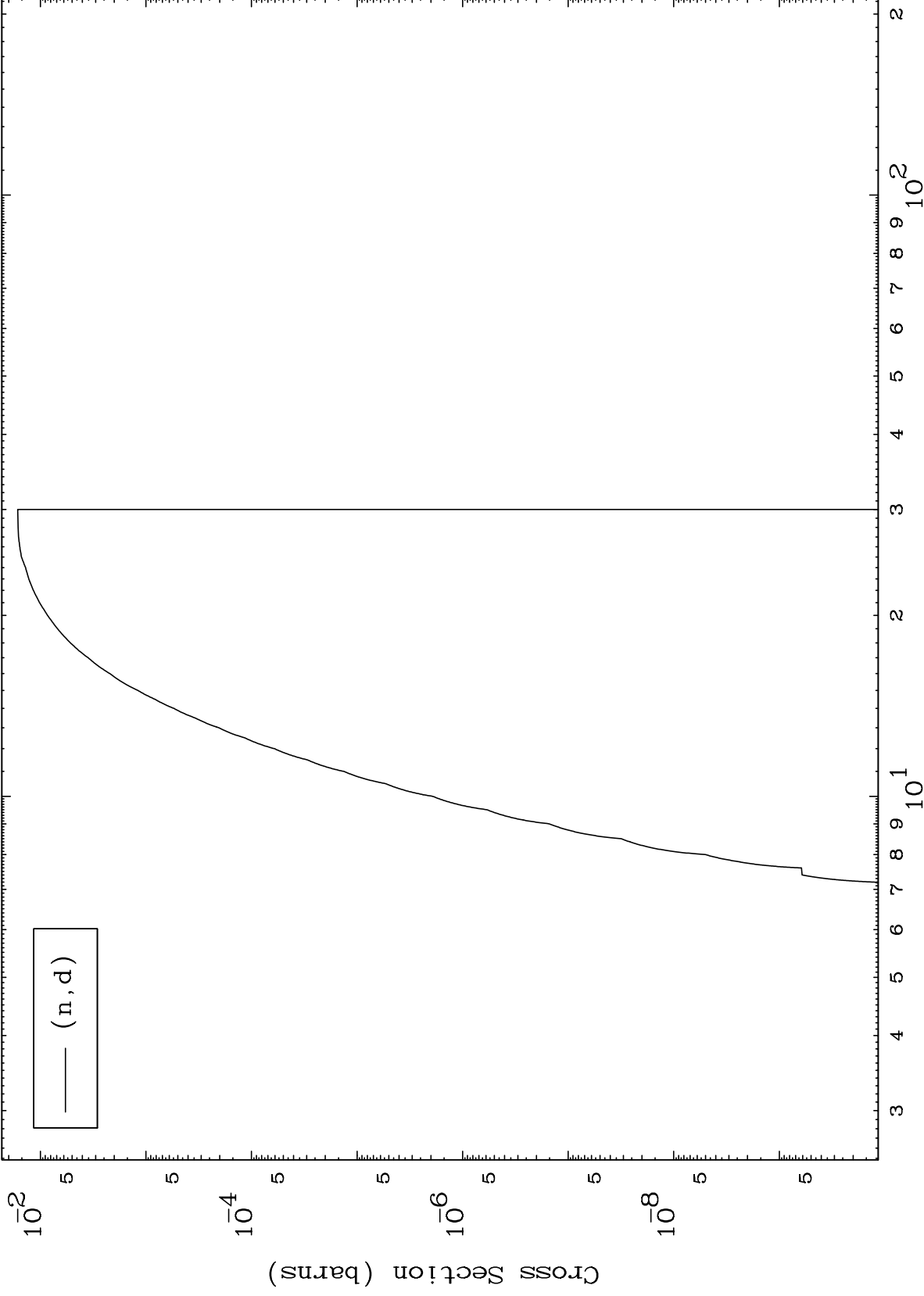
75-Re-183



MAT 7519

(n,d) Levels
293 Kelvin Cross Sections

75-Re-183



11

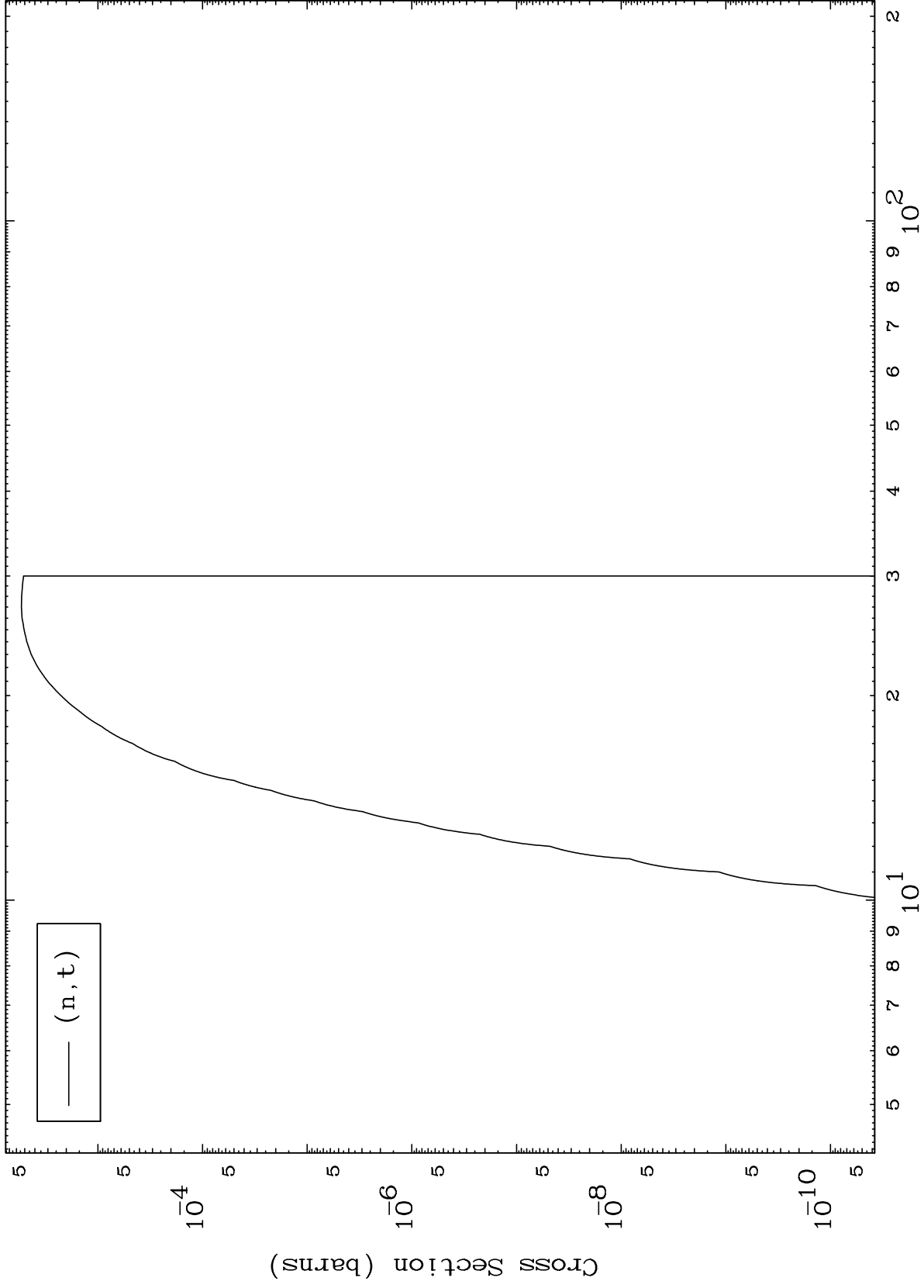
Incident Energy (MeV)

75-Re-183

MAT 7519

(n,t) Levels
293 Kelvin Cross Sections

75-Re-183



12

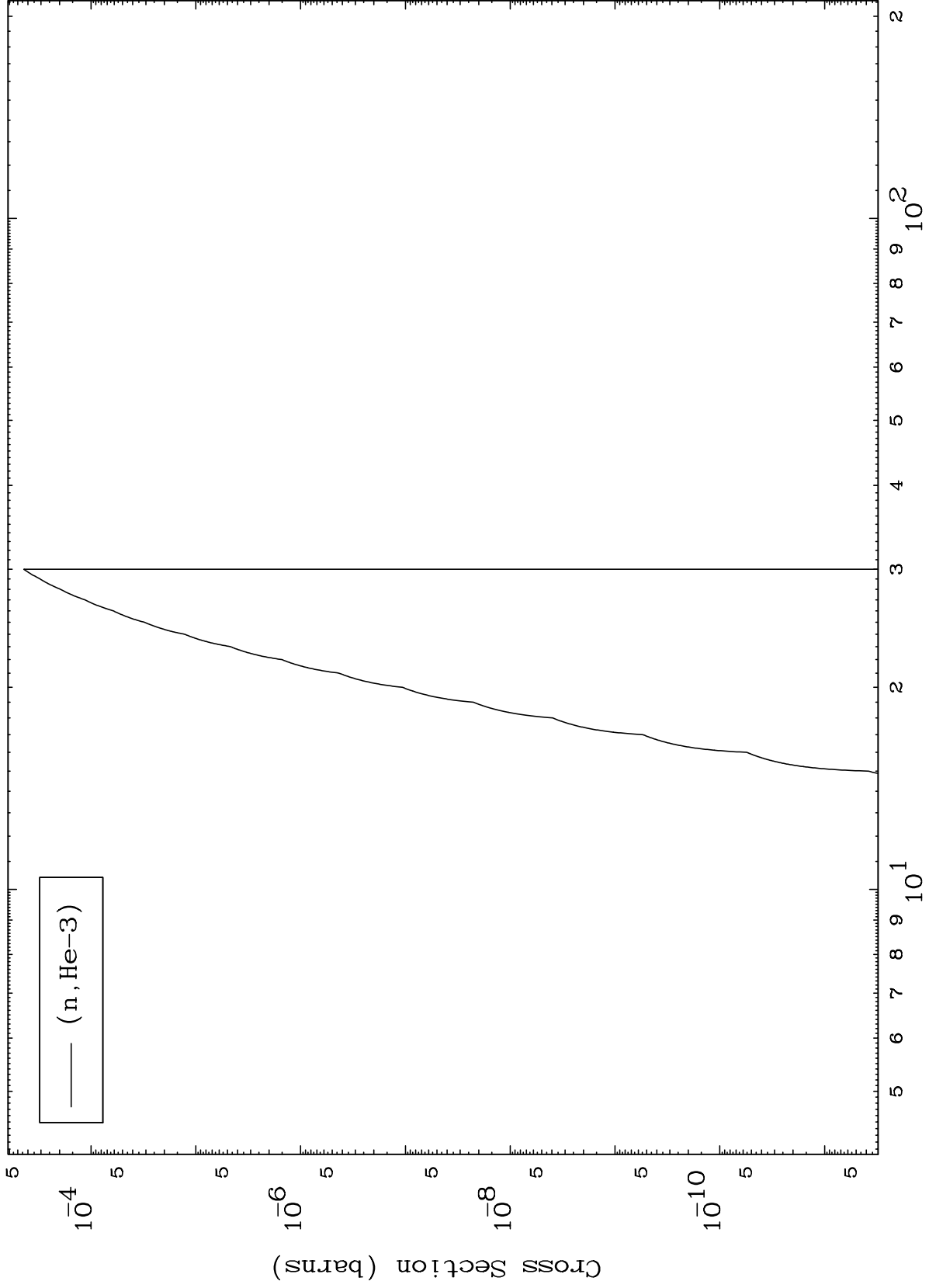
Incident Energy (MeV)

75-Re-183

MAT 7519

(n,He3) Levels
293 Kelvin Cross Sections

75-Re-183



13

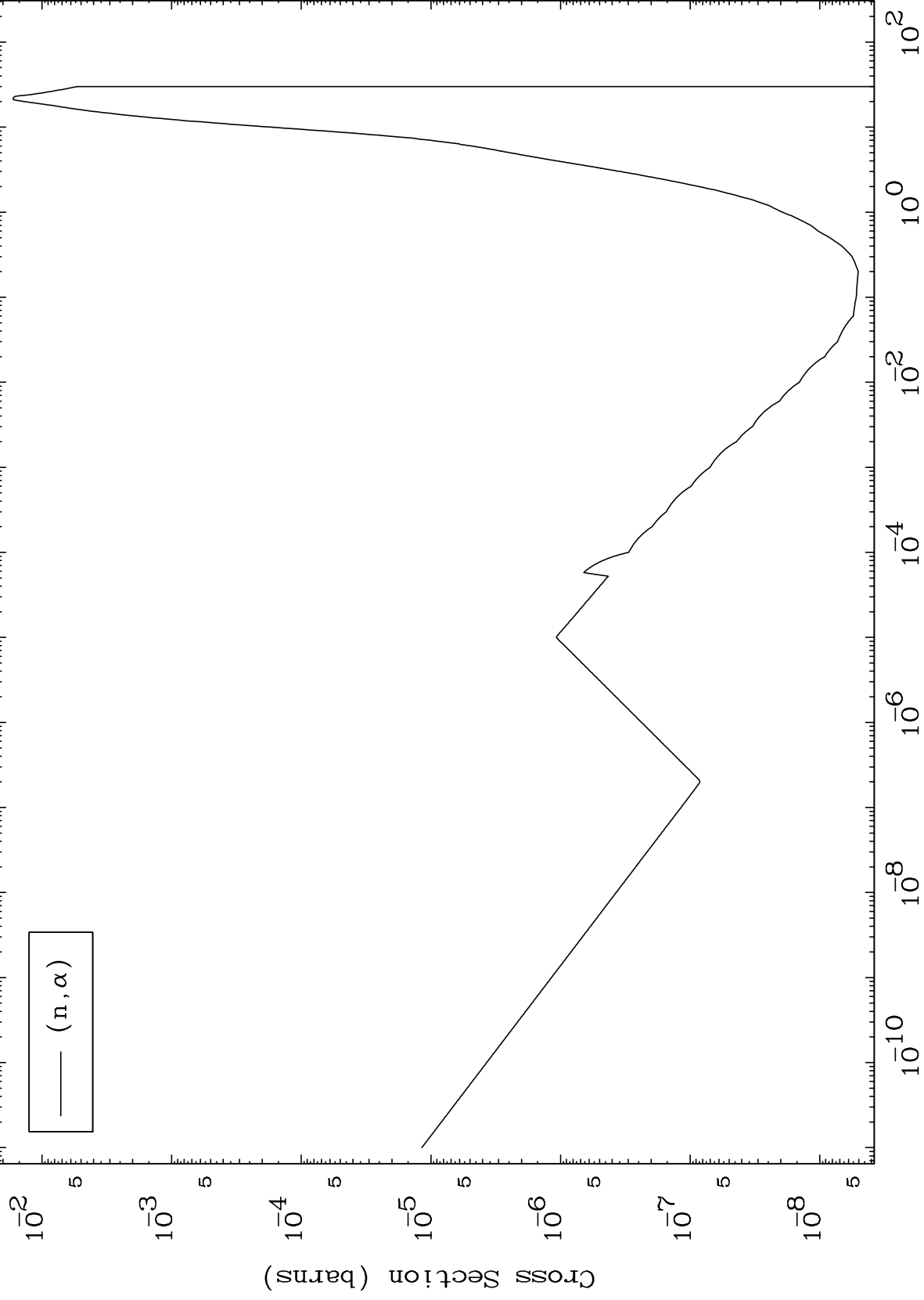
Incident Energy (MeV)

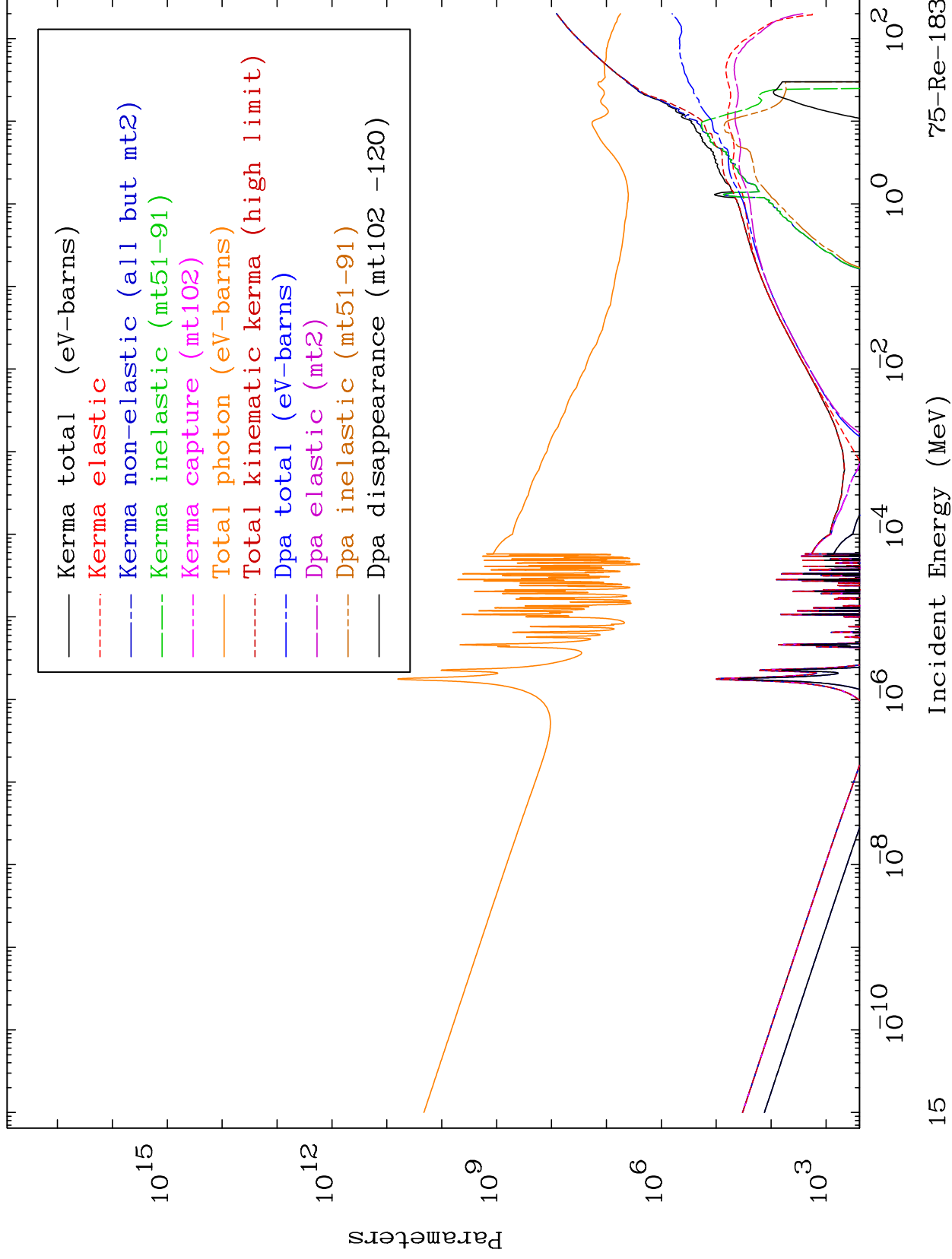
75-Re-183

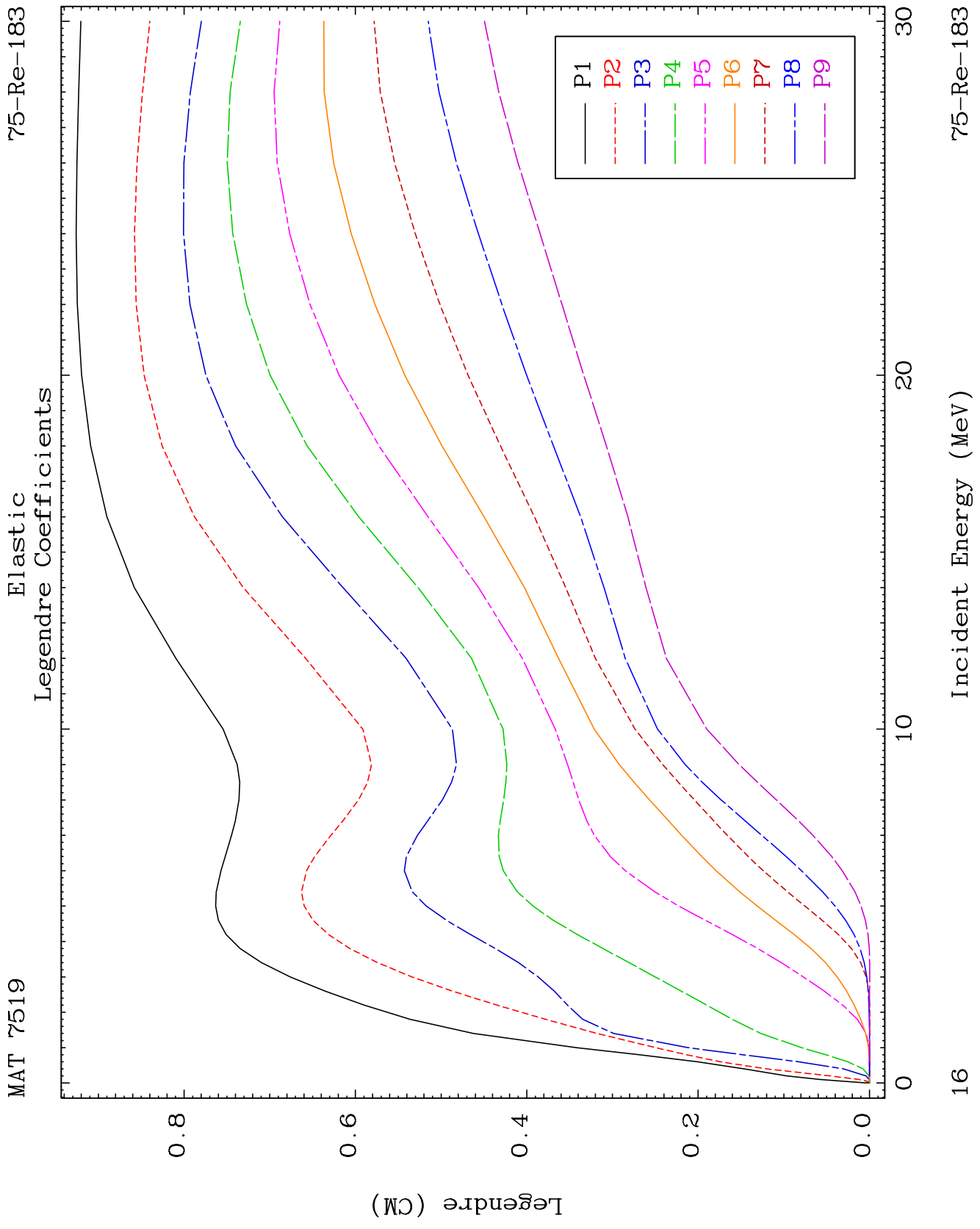
MAT 7519

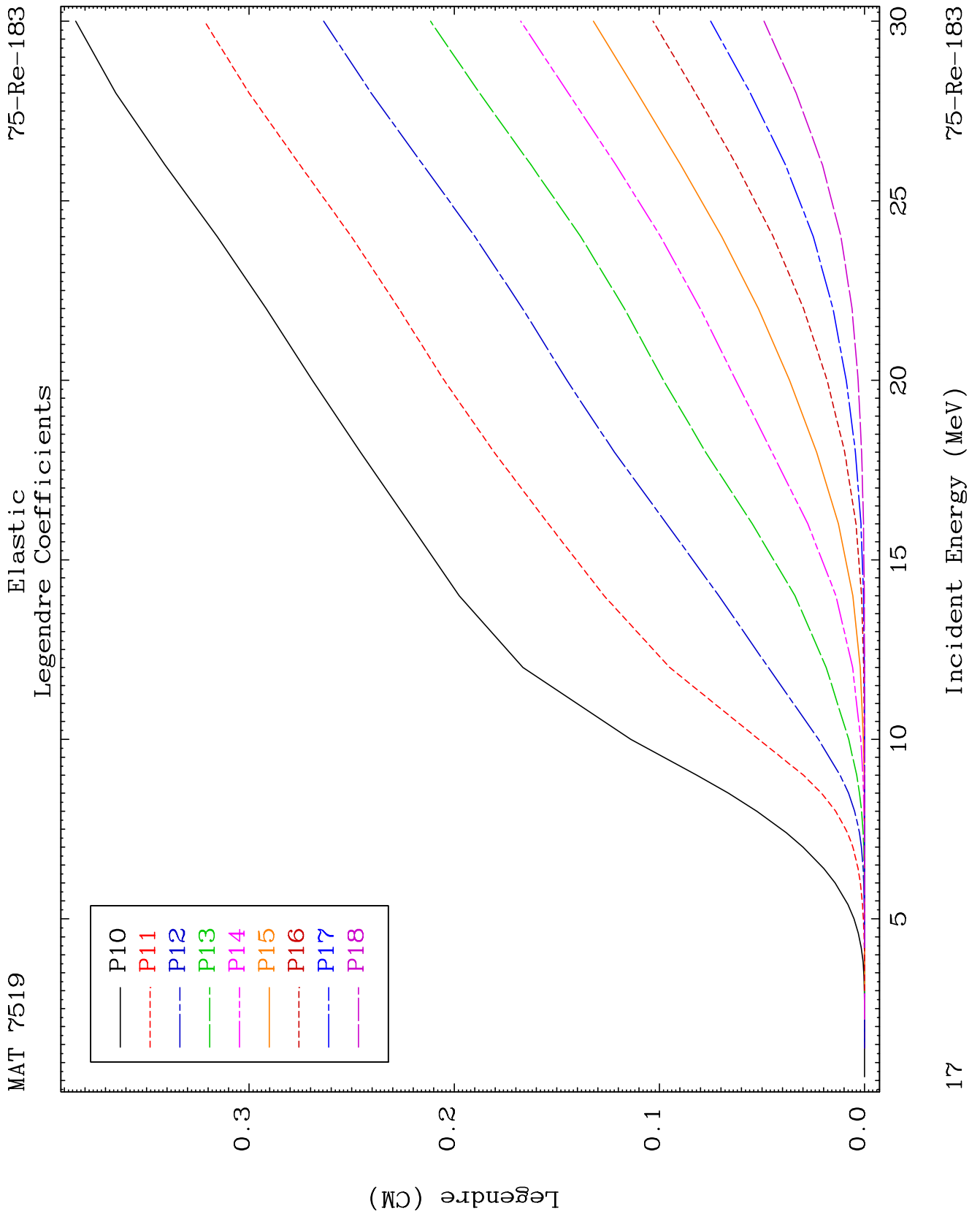
(n, α) Levels
293 Kelvin Cross Sections

75-Re-183









MAT 7519

Elastic Legendre Coefficients

75-Re-183

17

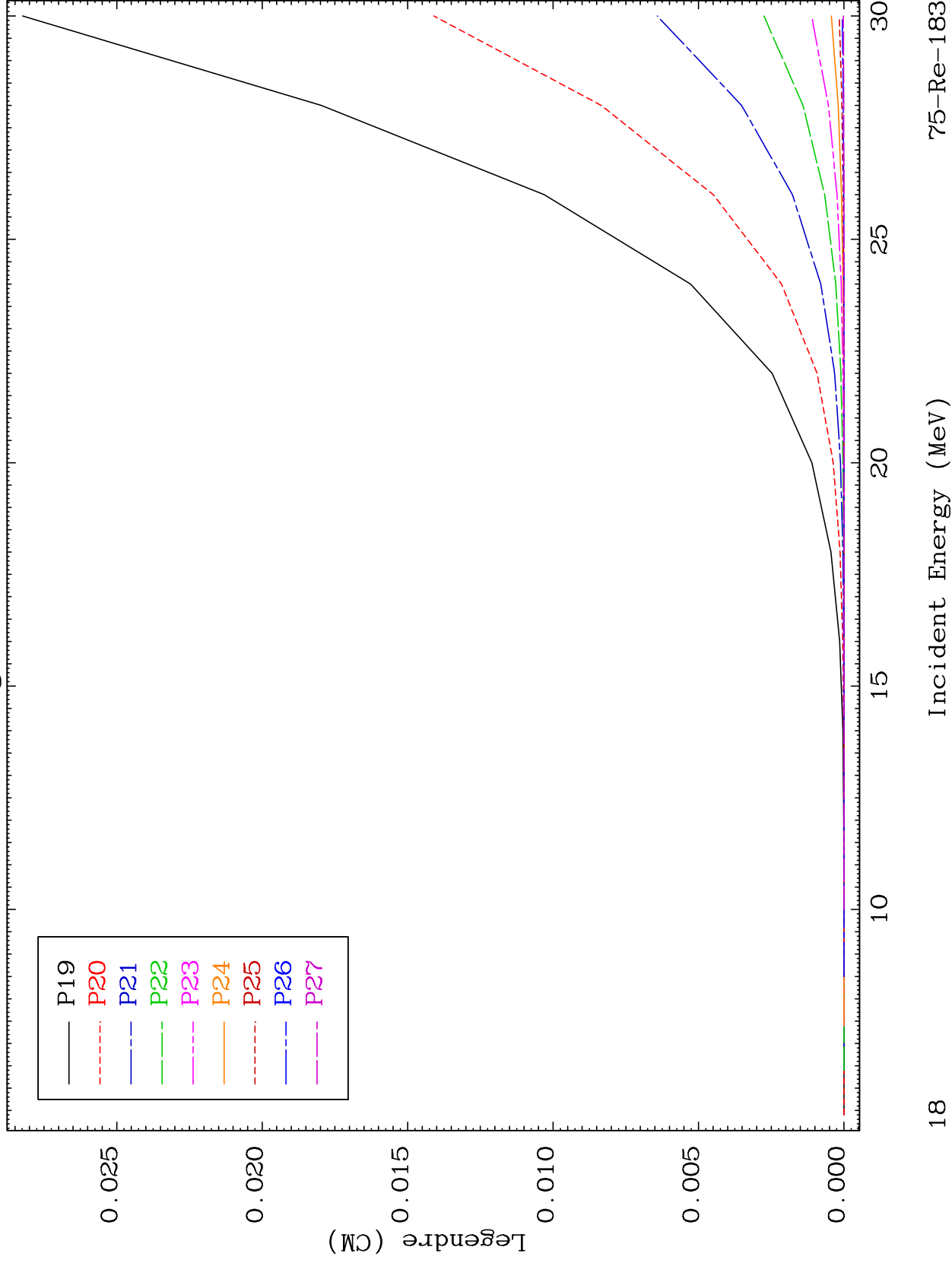
Incident Energy (MeV)

75-Re-183

MAT 7519

Elastic Legendre Coefficients

75-Re-183

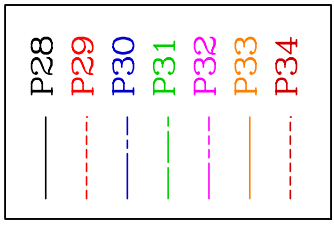


- P19
- P20
- P21
- P22
- P23
- P24
- P25
- P26
- P27

MAT 7519

Elastic Legendre Coefficients

75-Re-183



$\times 10^{-6}$

Legendre (CM)

10

15

20

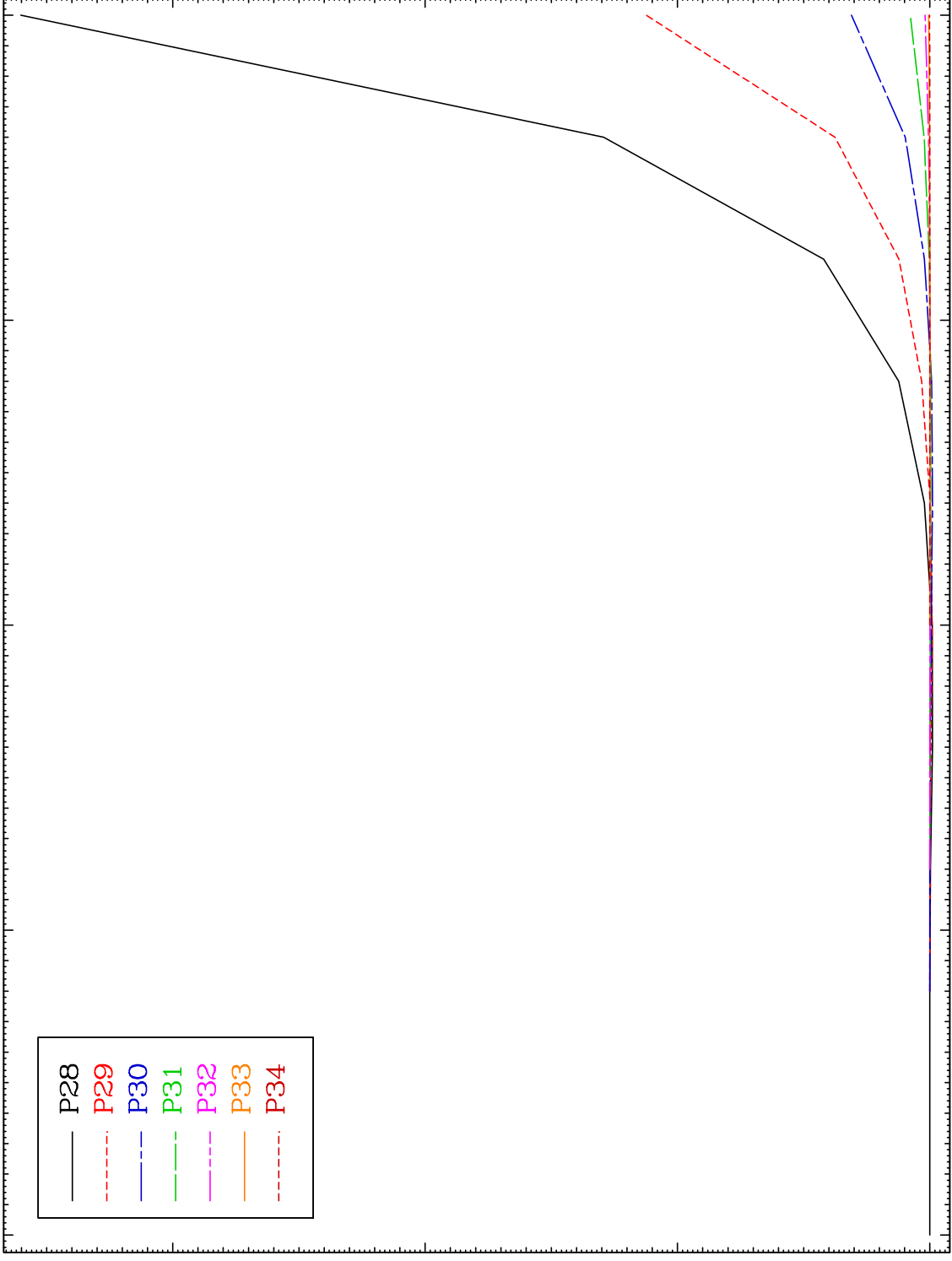
25

30

19

Incident Energy (MeV)

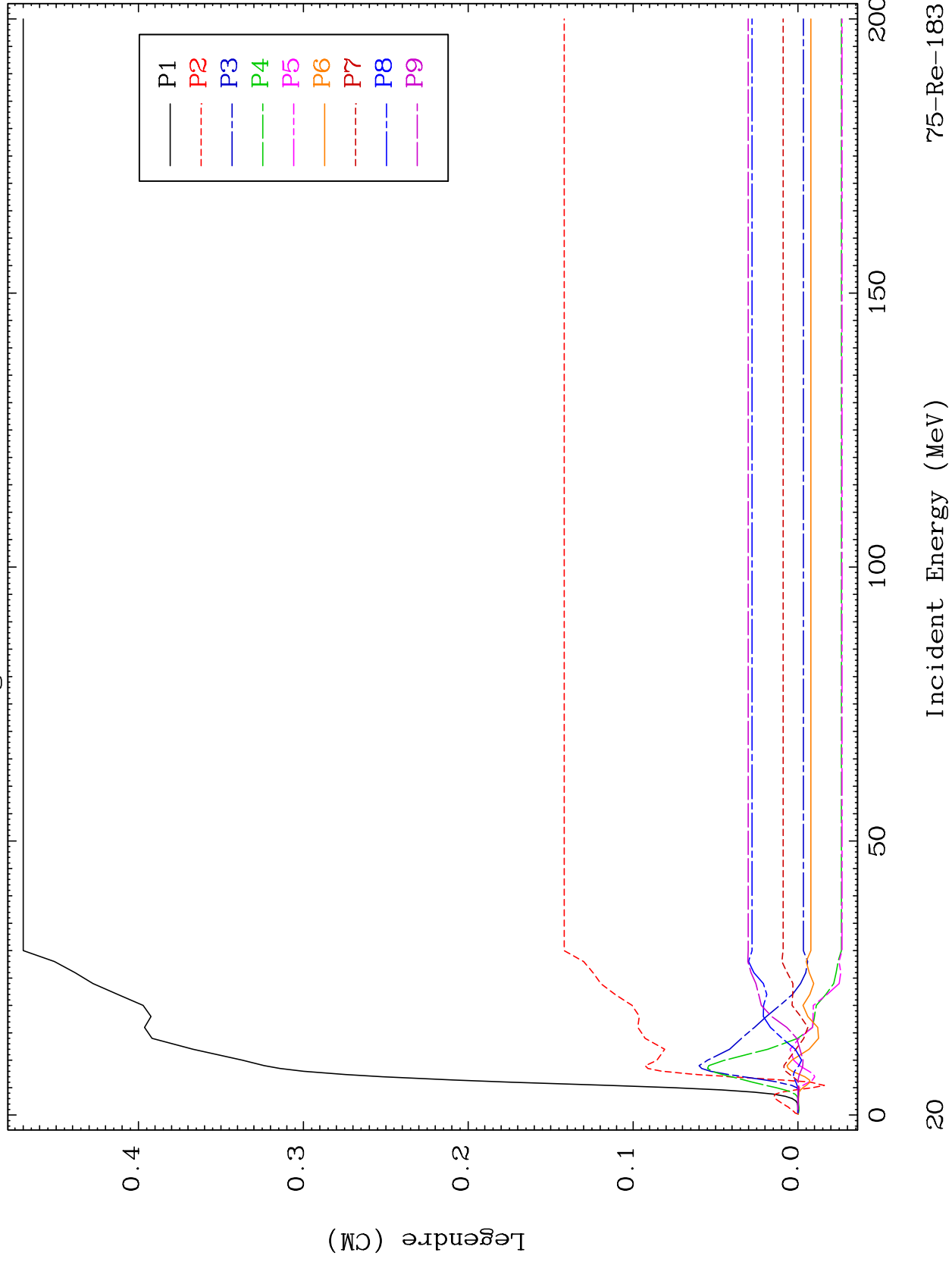
75-Re-183

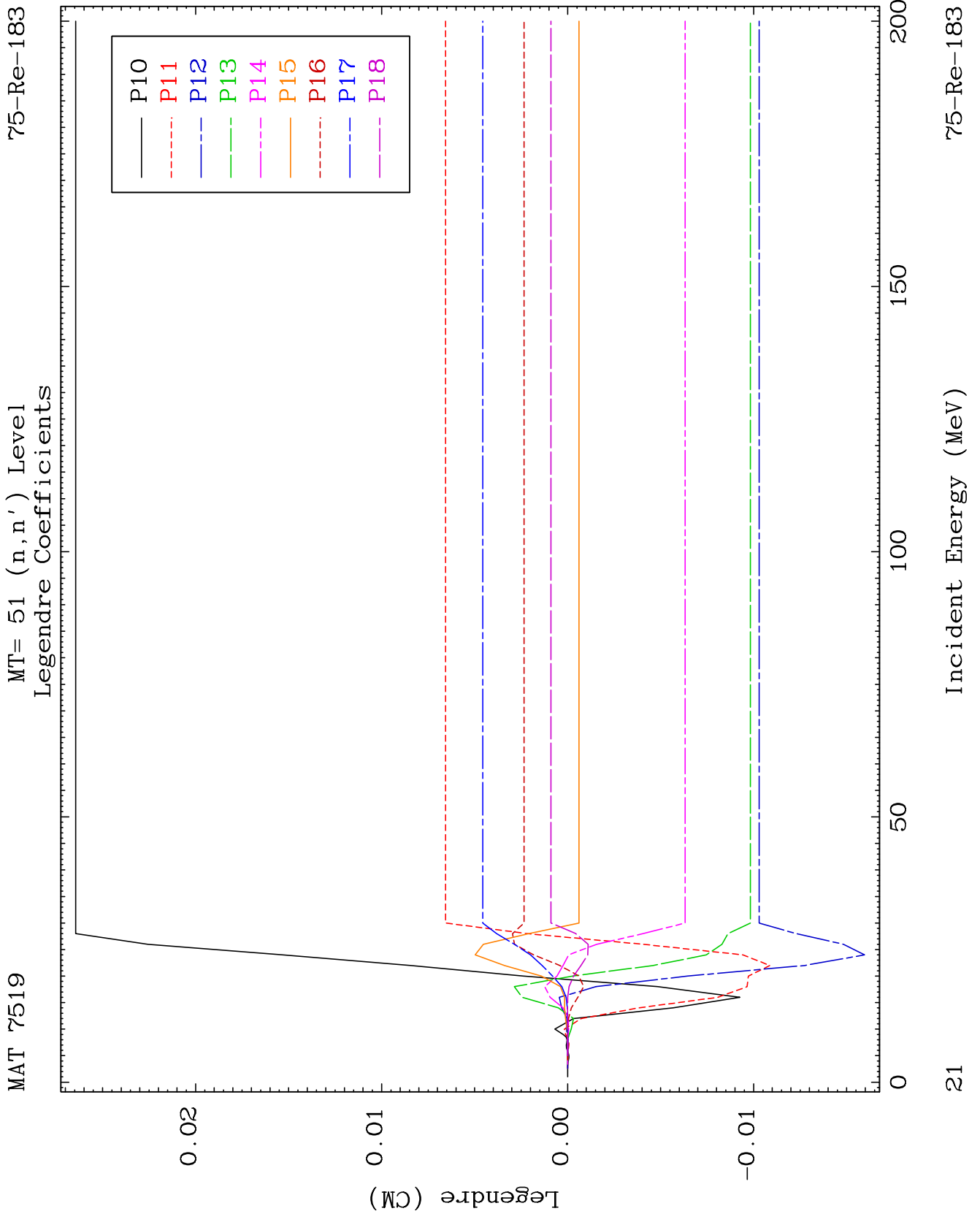


MAT 7519

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

75-Re-183

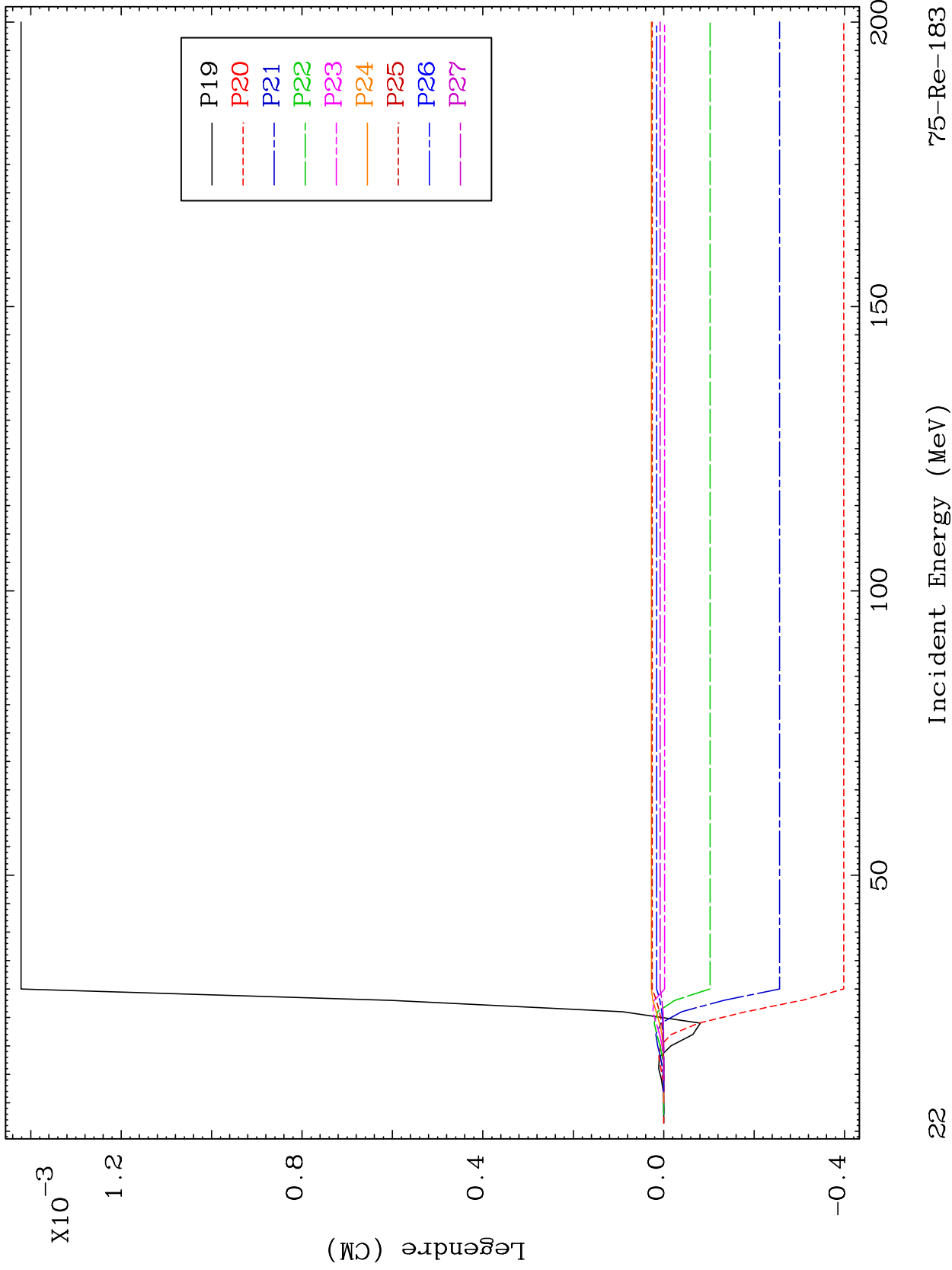




MAT 7519

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

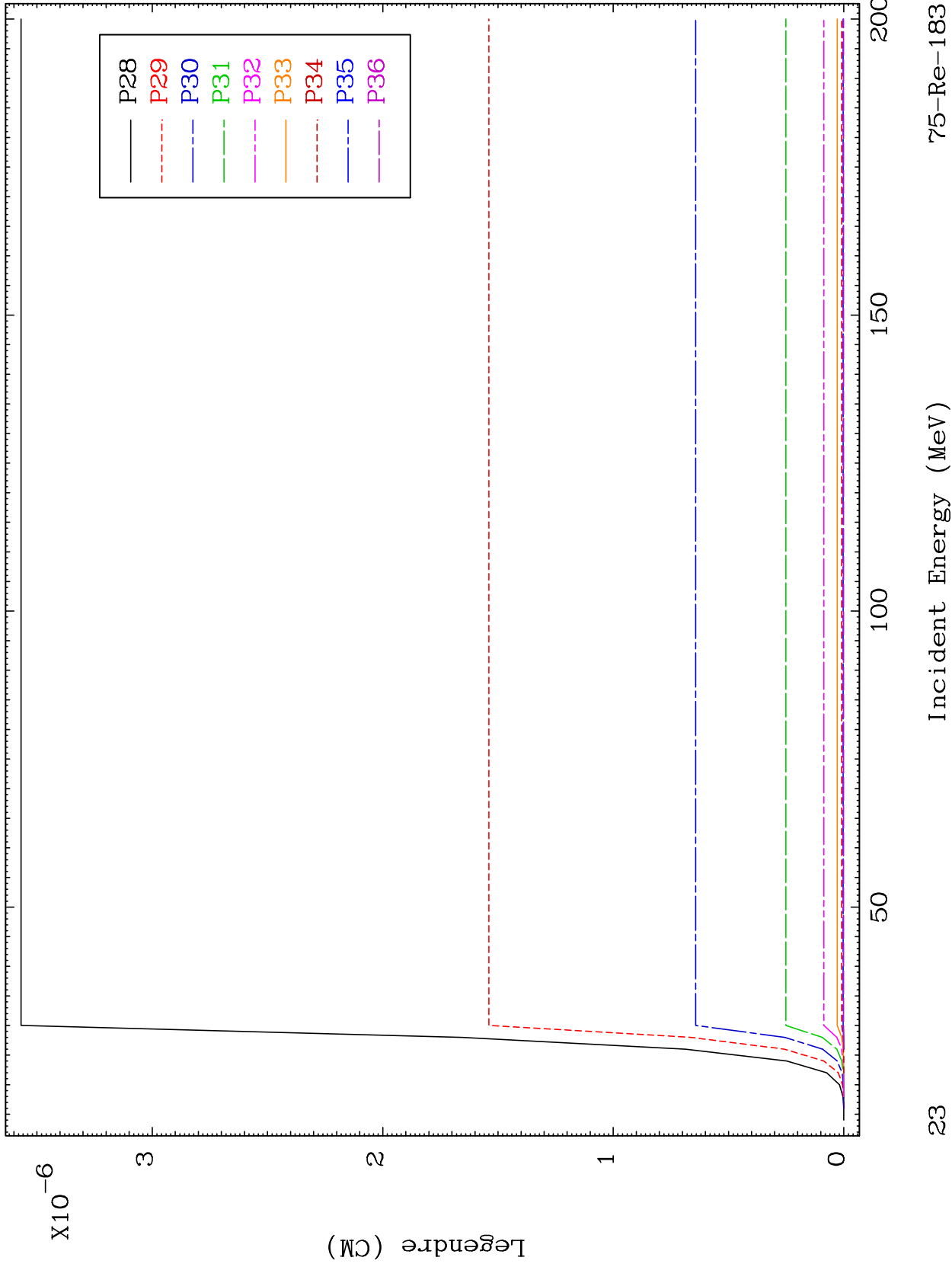
75-Re-183



MAT 7519

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

75-Re-183



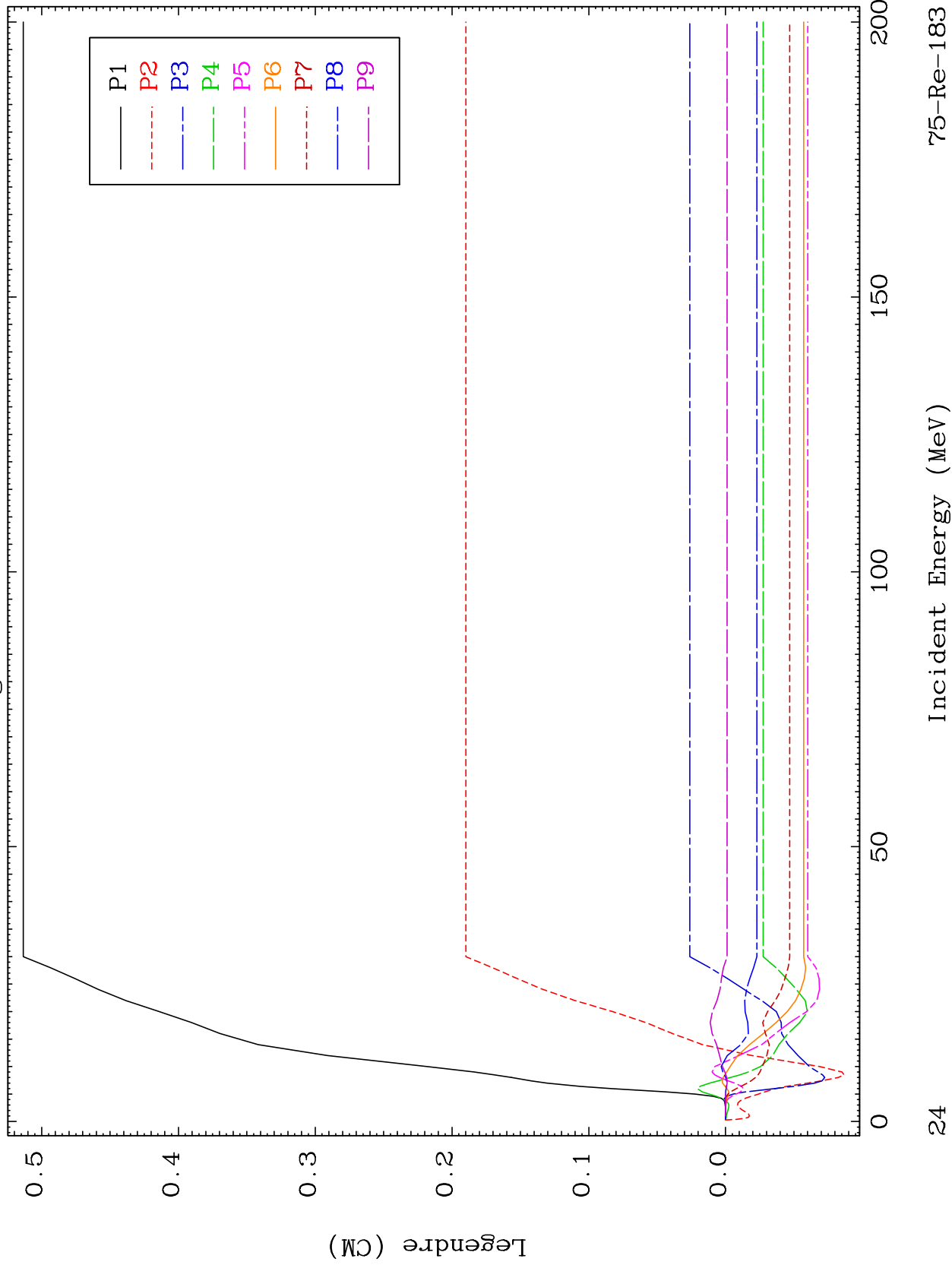
23

75-Re-183

MAT 7519

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

75-Re-183



75-Re-183

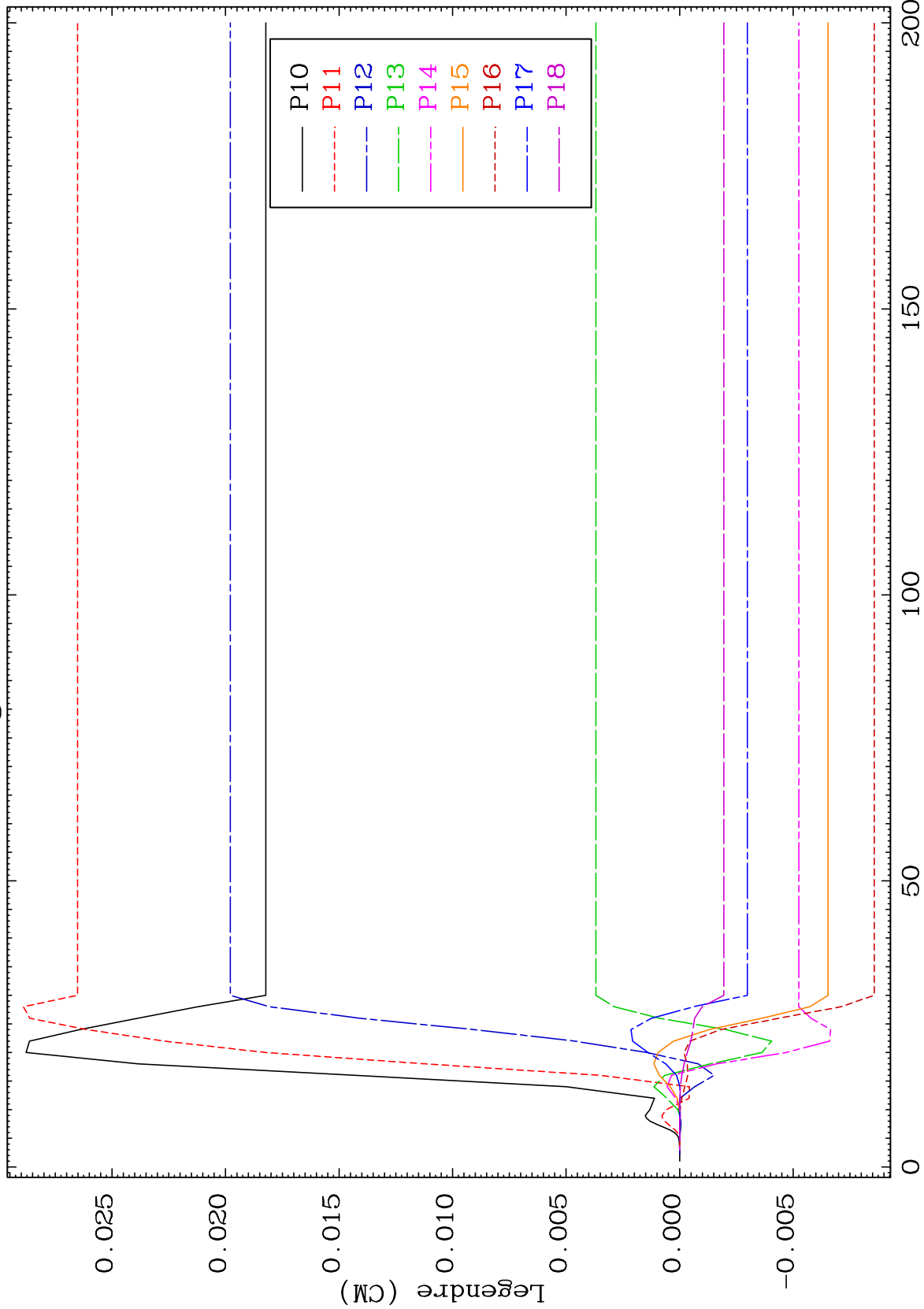
Incident Energy (MeV)

24

MAT 7519

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

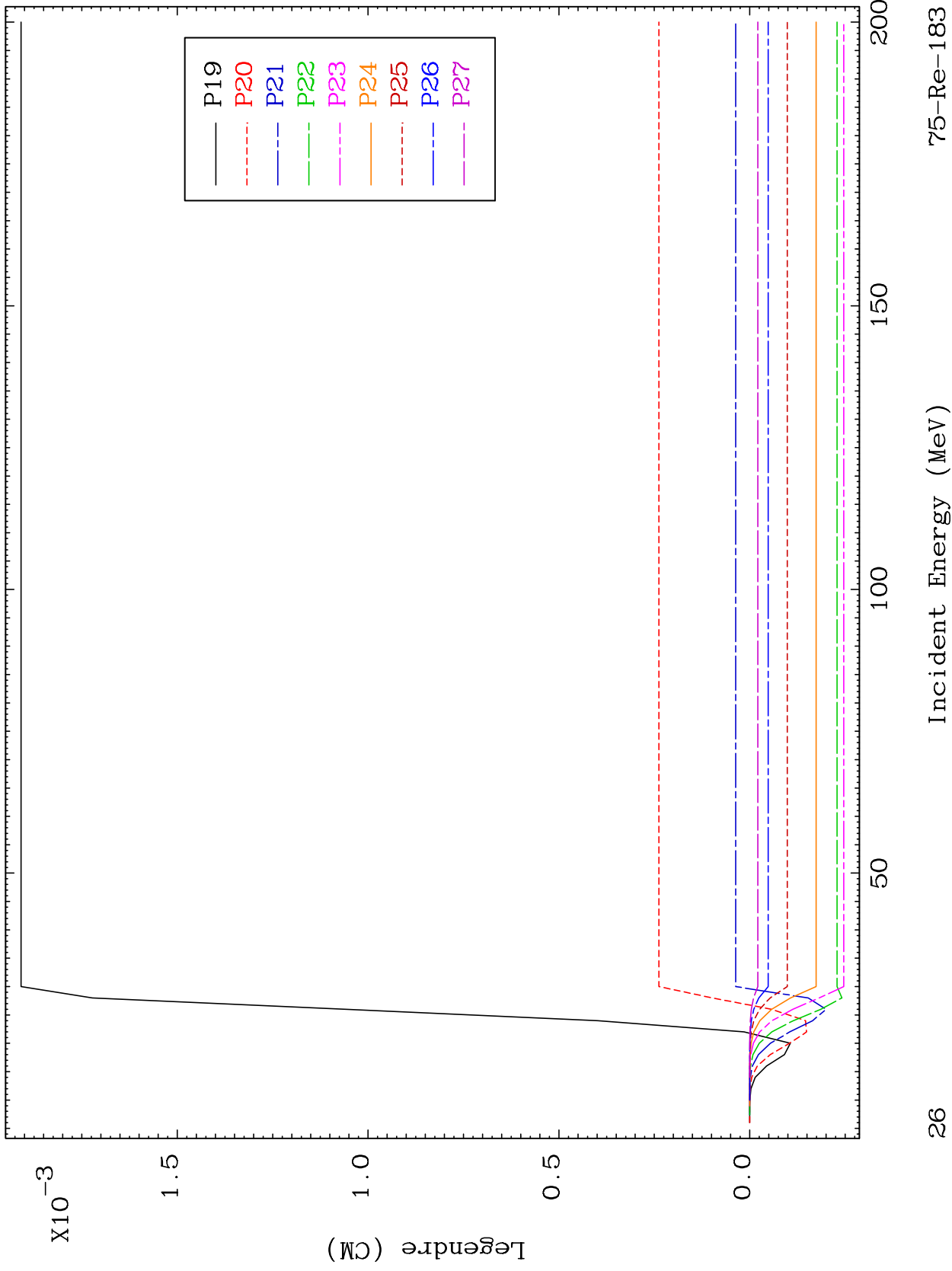
75-Re-183

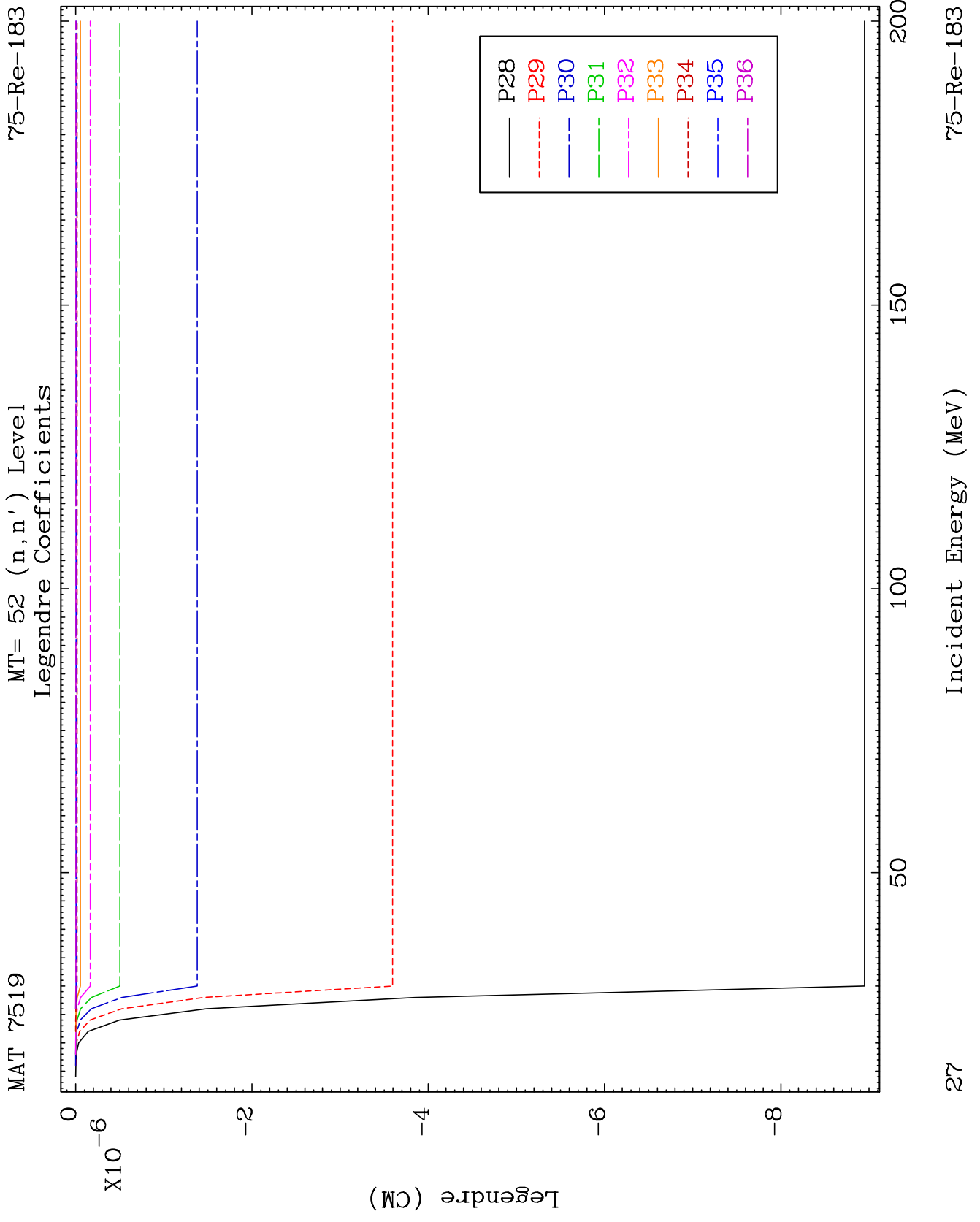


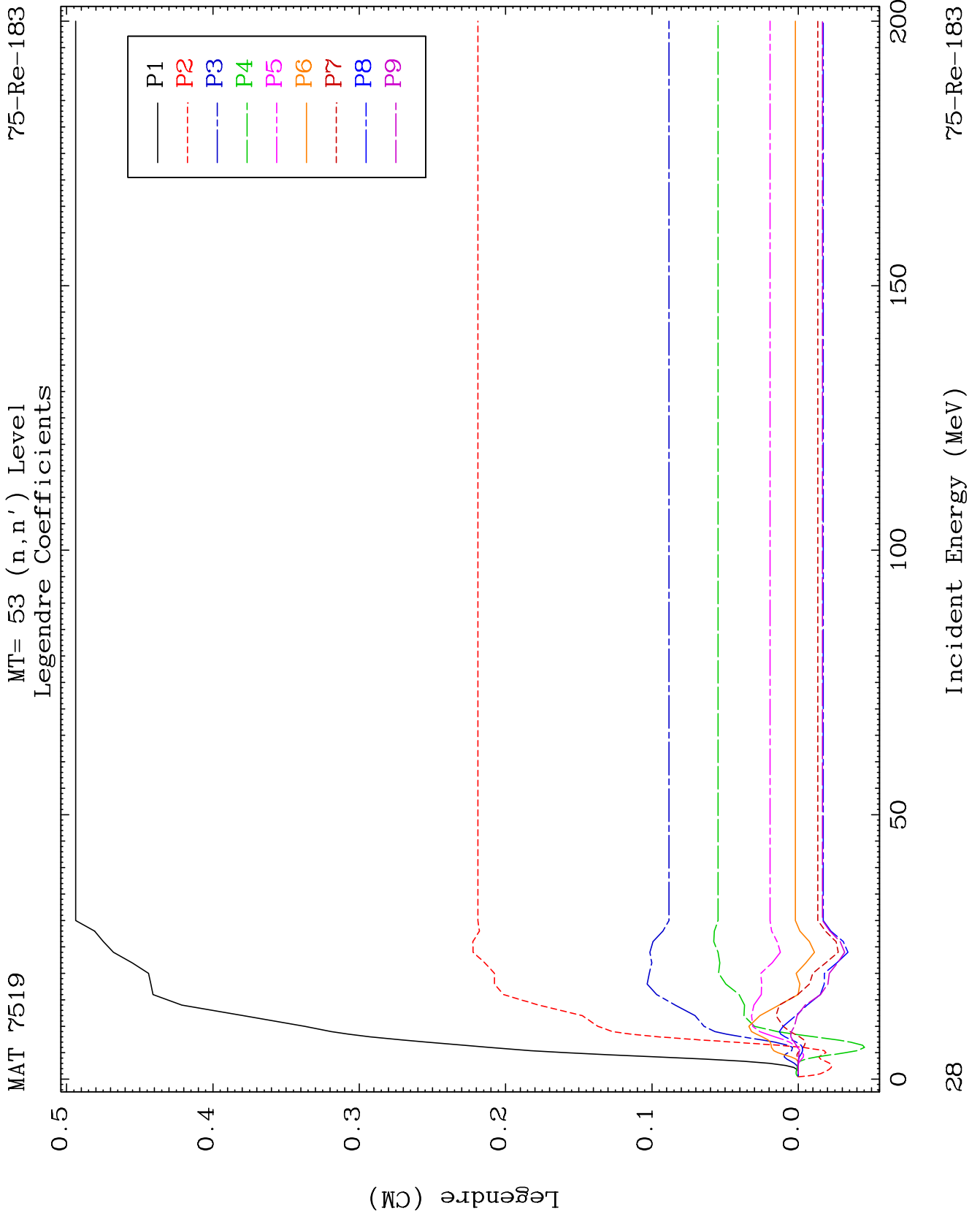
25

Incident Energy (MeV)

75-Re-183



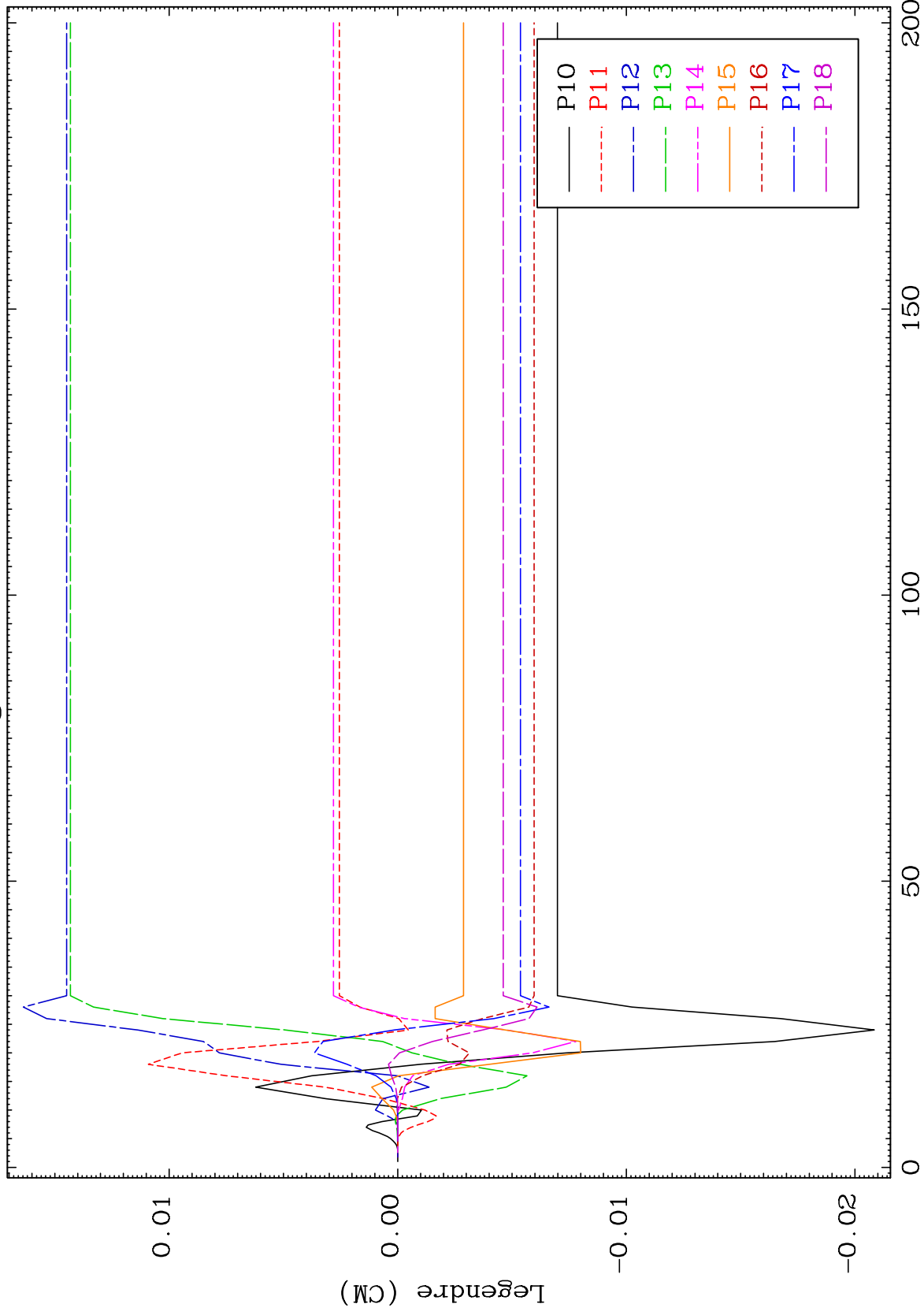




MAT 7519

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

75-Re-183



29

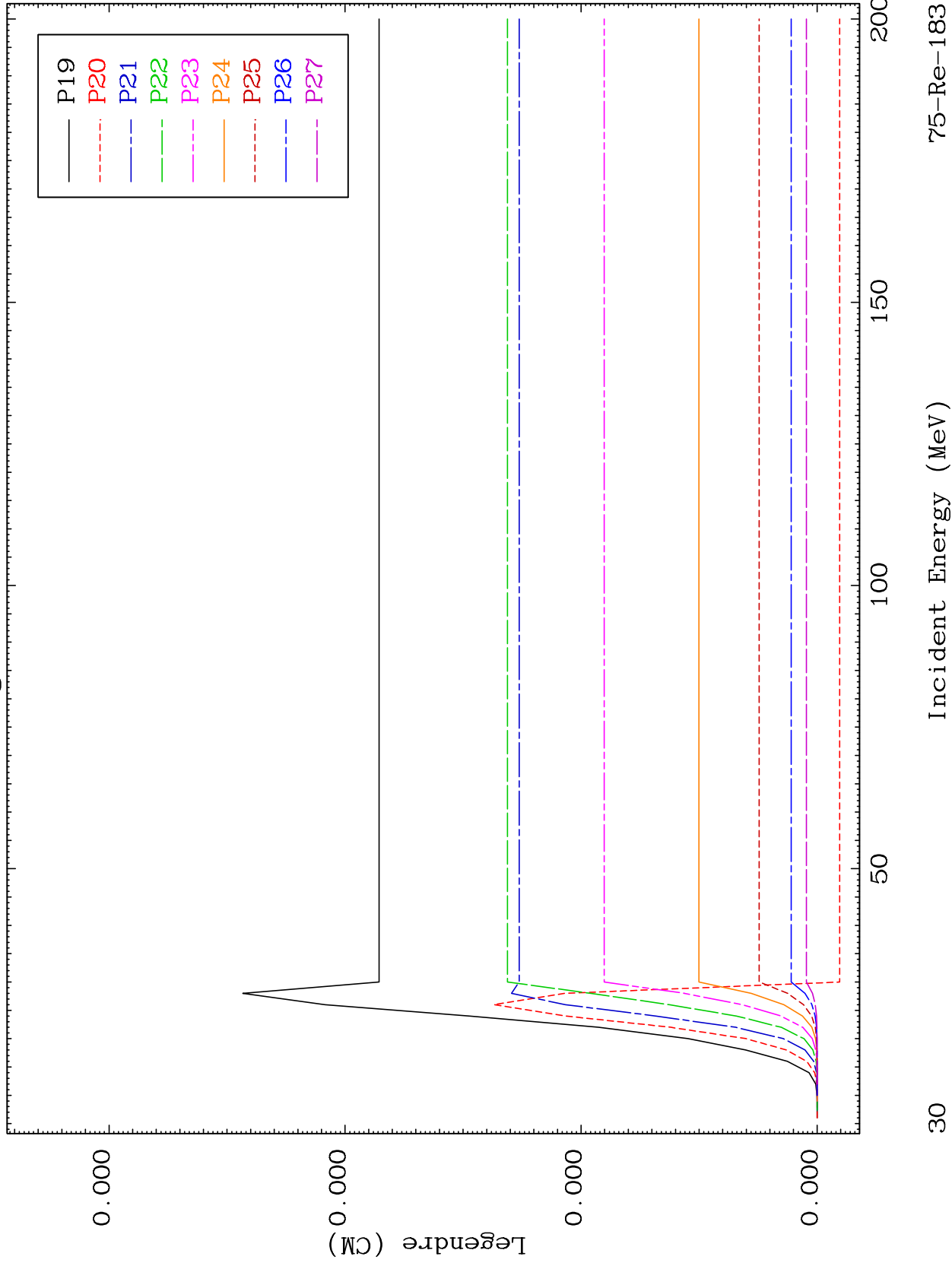
Incident Energy (MeV)

75-Re-183

MAT 7519

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

75-Re-183



30

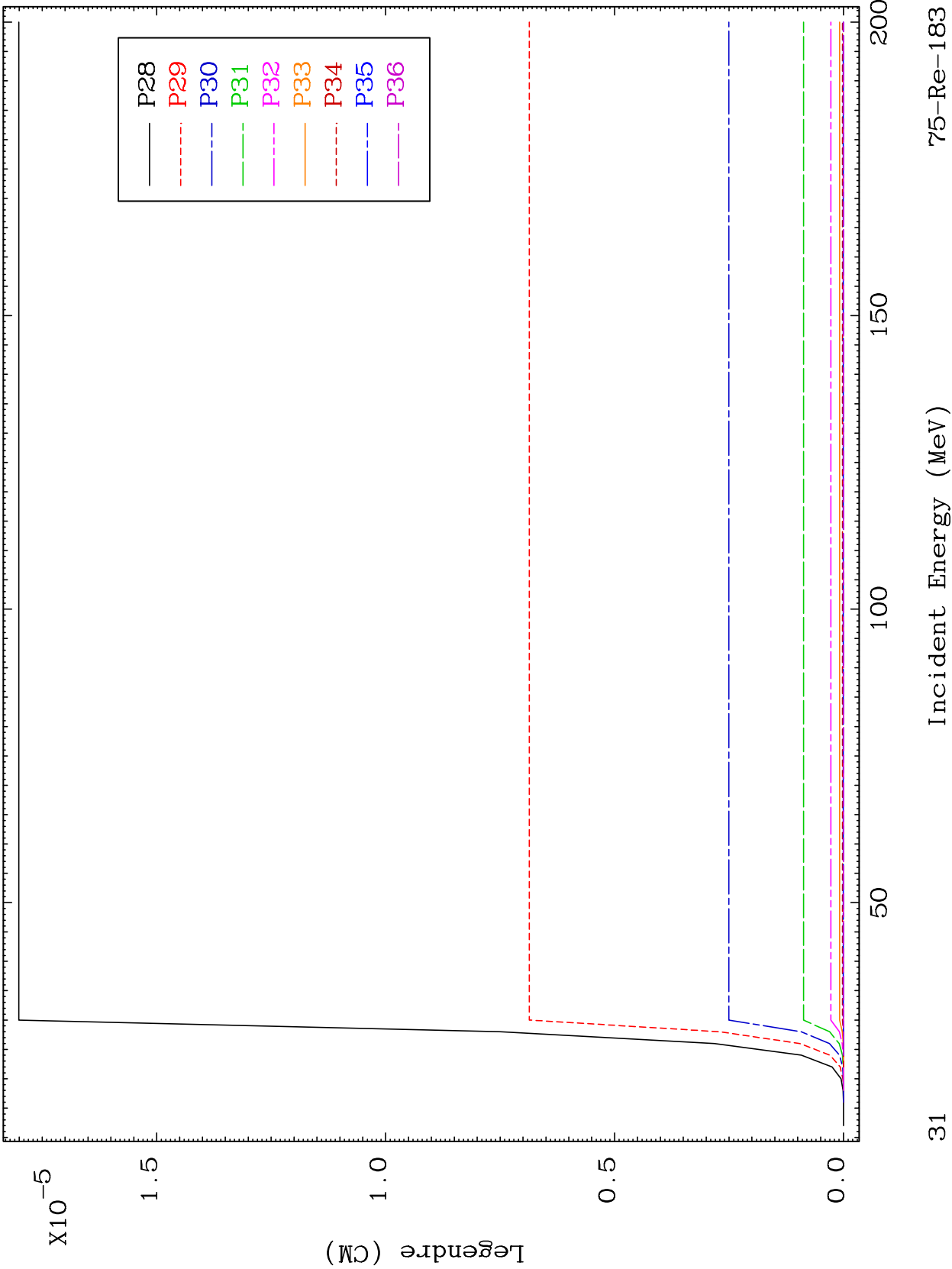
Incident Energy (MeV)

75-Re-183

MAT 7519

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

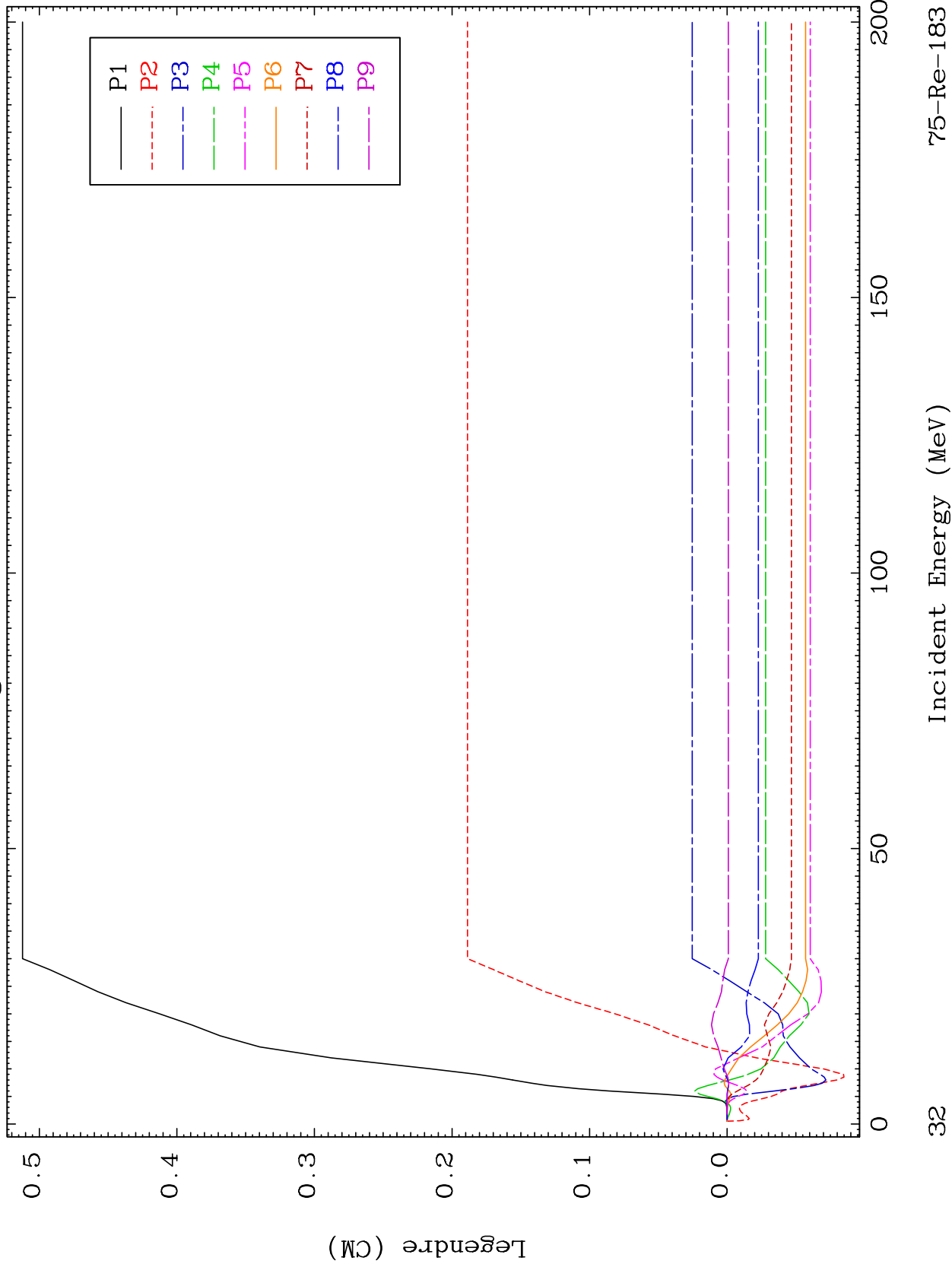
75-Re-183



MAT 7519

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

75-Re-183



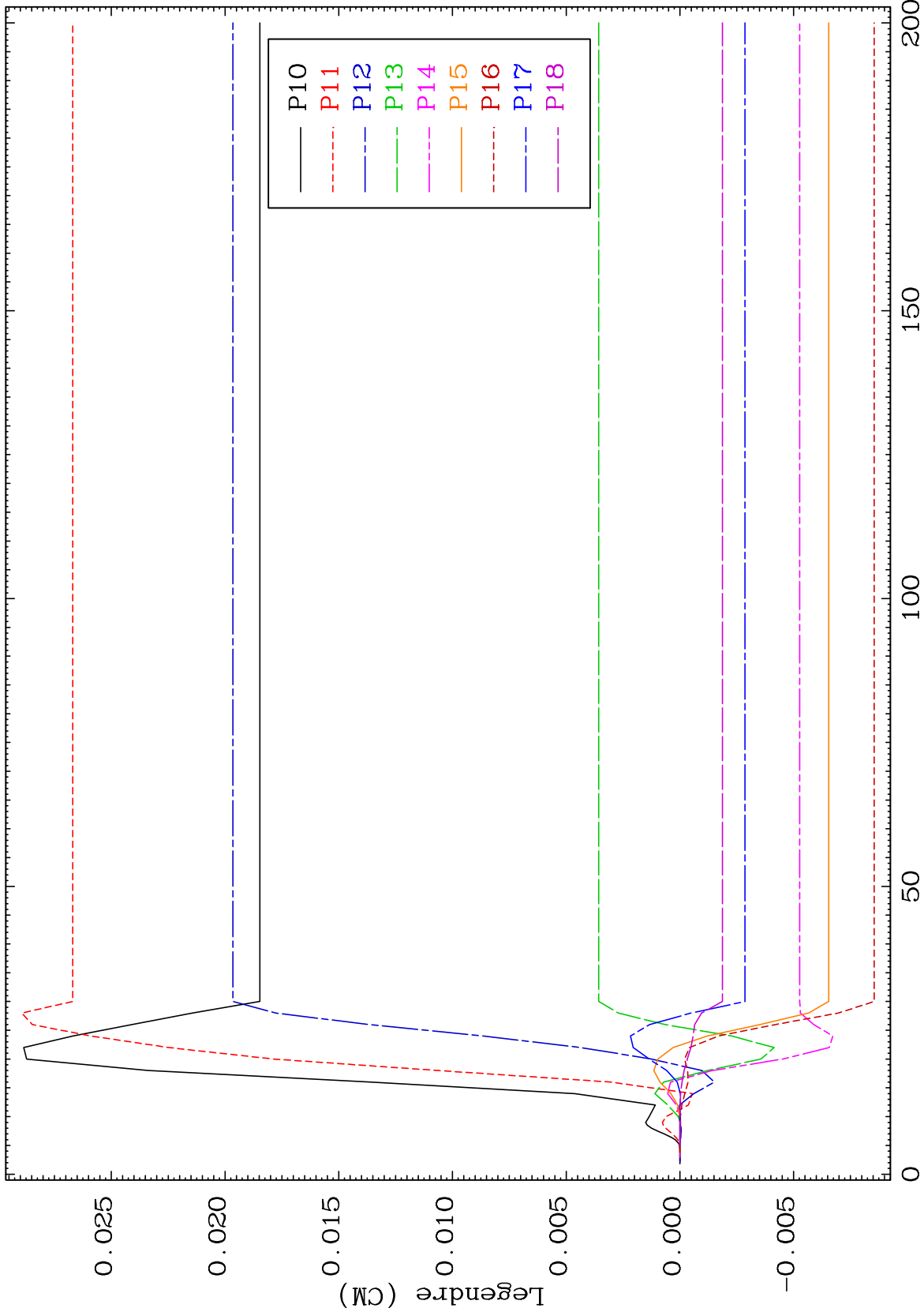
32

75-Re-183

MAT 7519

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

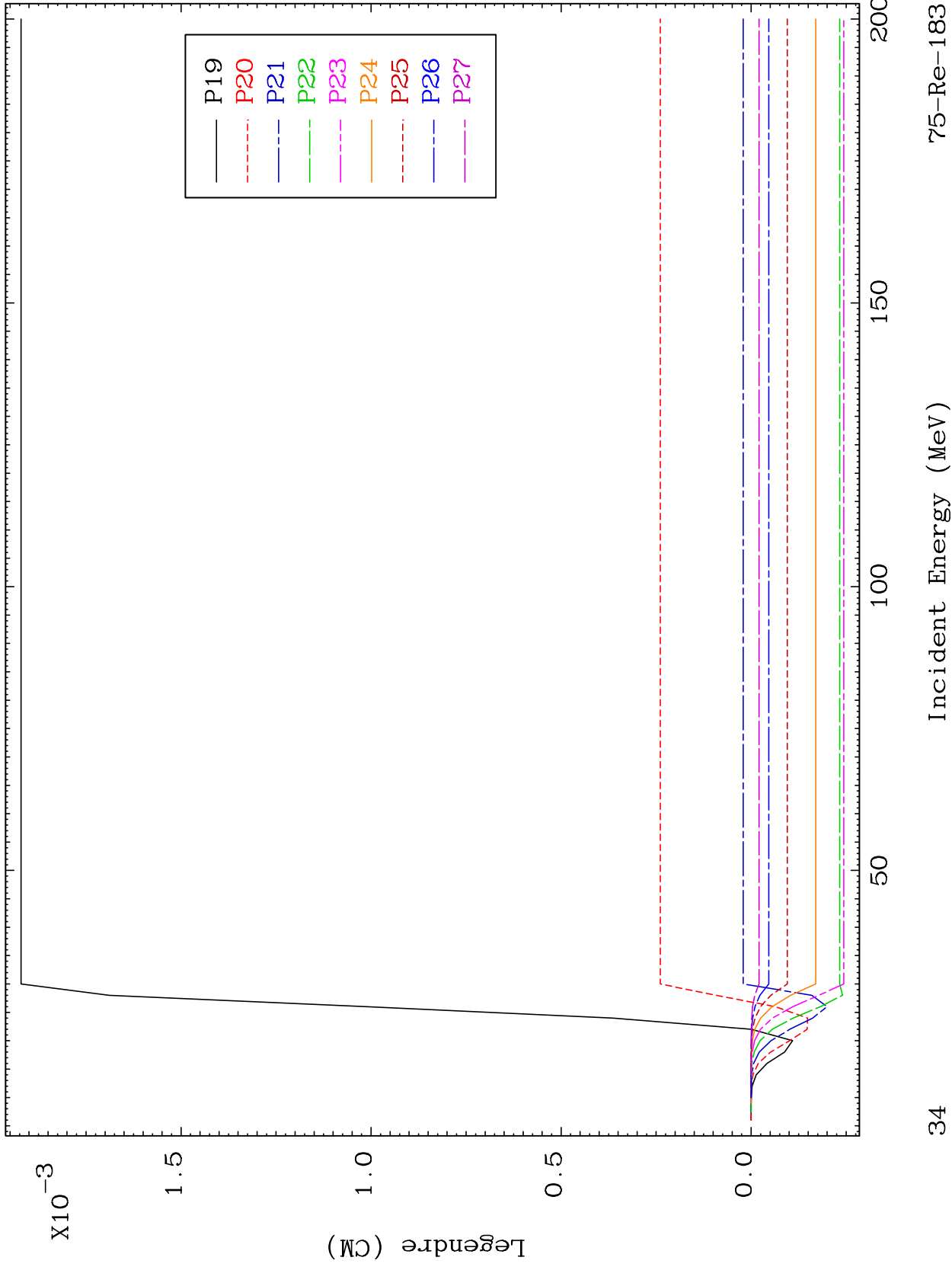
75-Re-183



MAT 7519

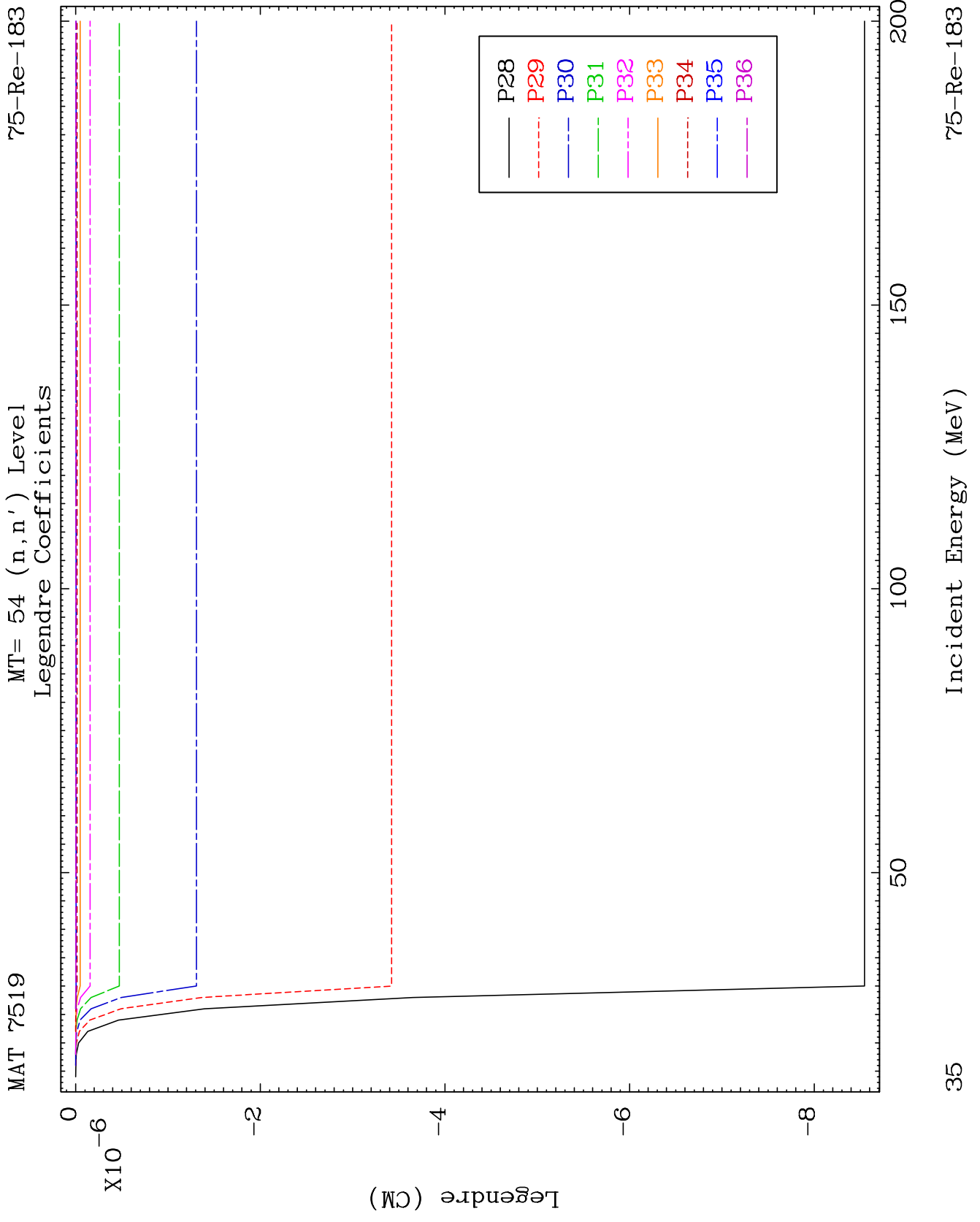
MT= 54 (n,n') Level
Legendre Coefficients

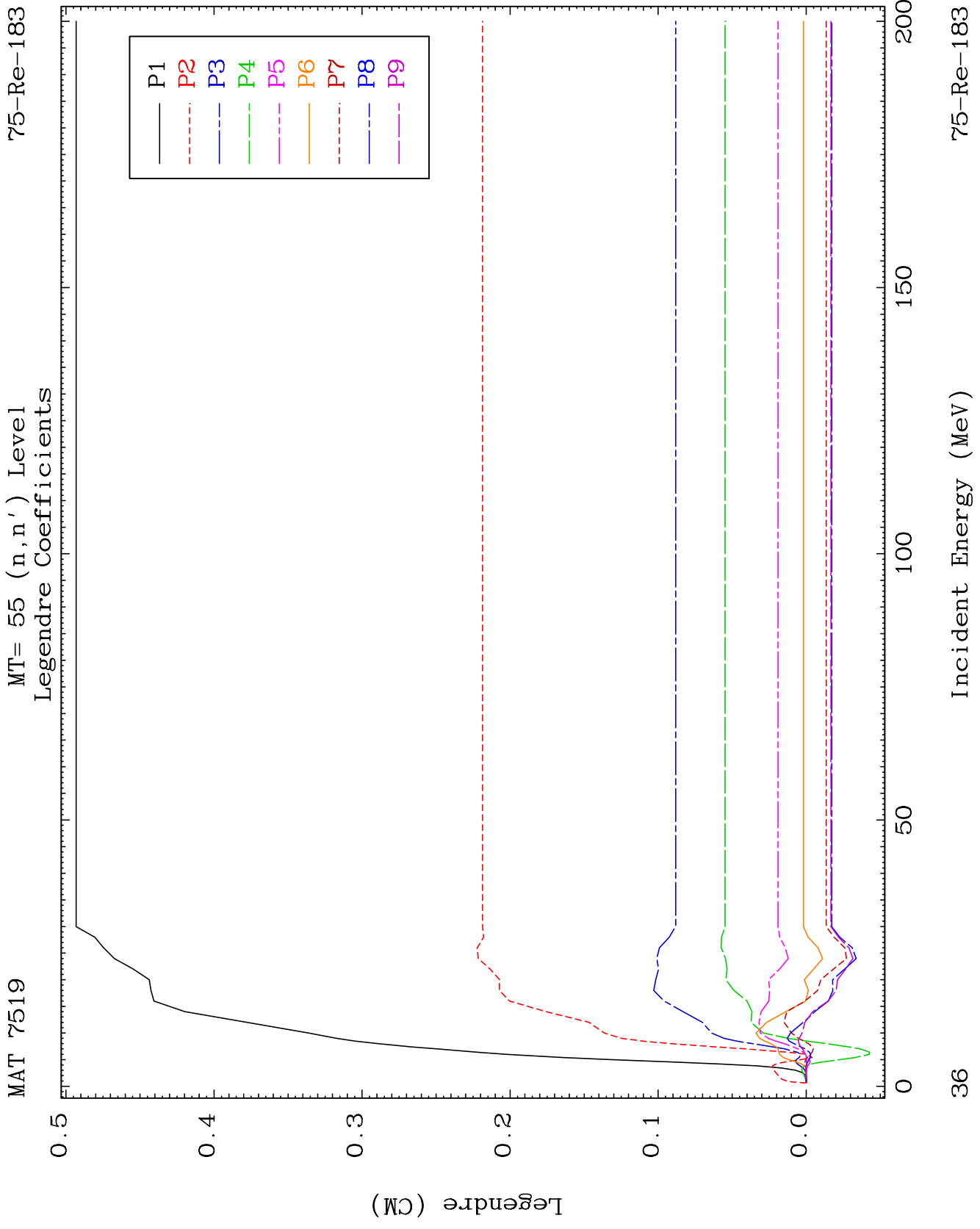
75-Re-183



34

75-Re-183

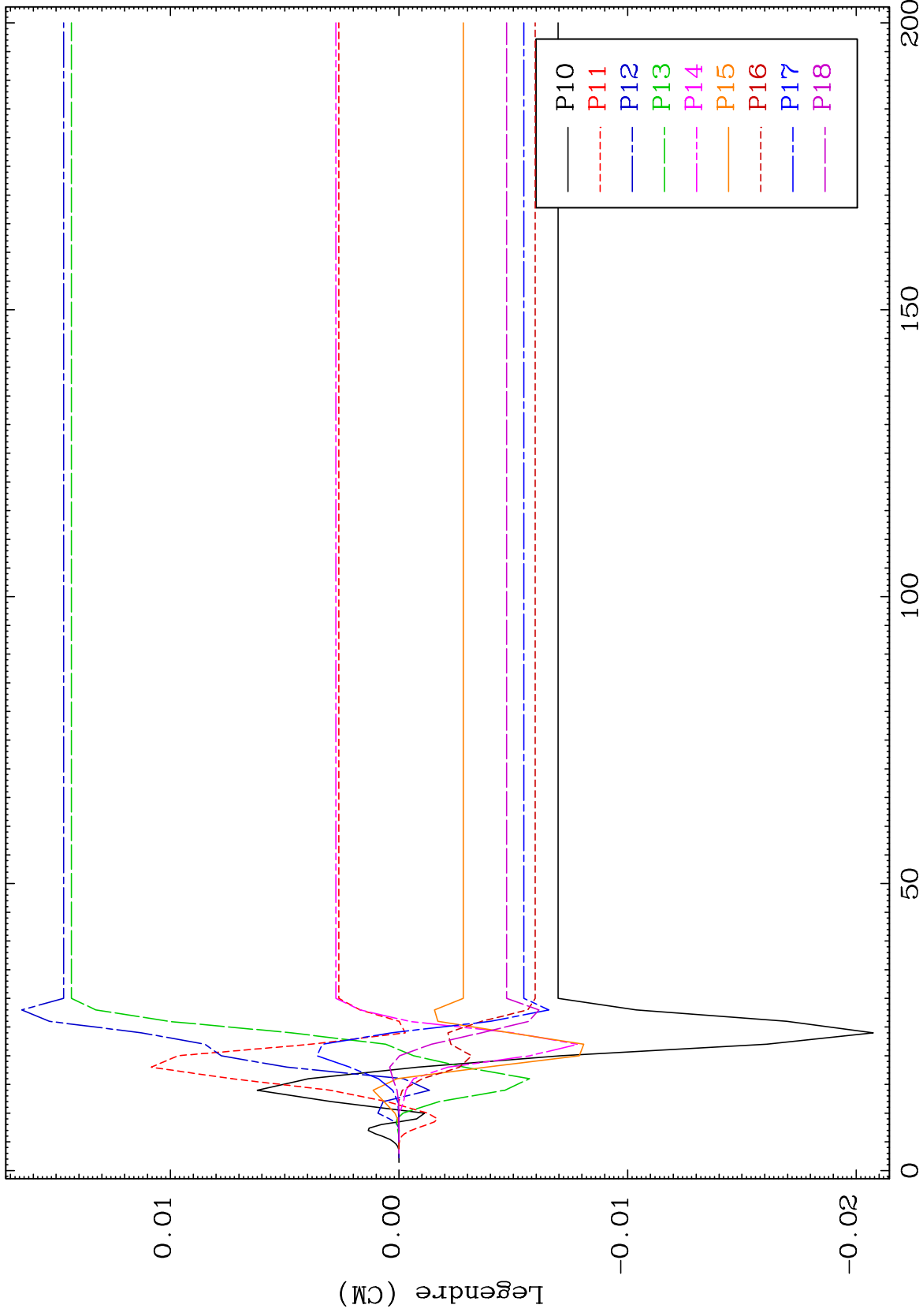




MAT 7519

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

75-Re-183



37

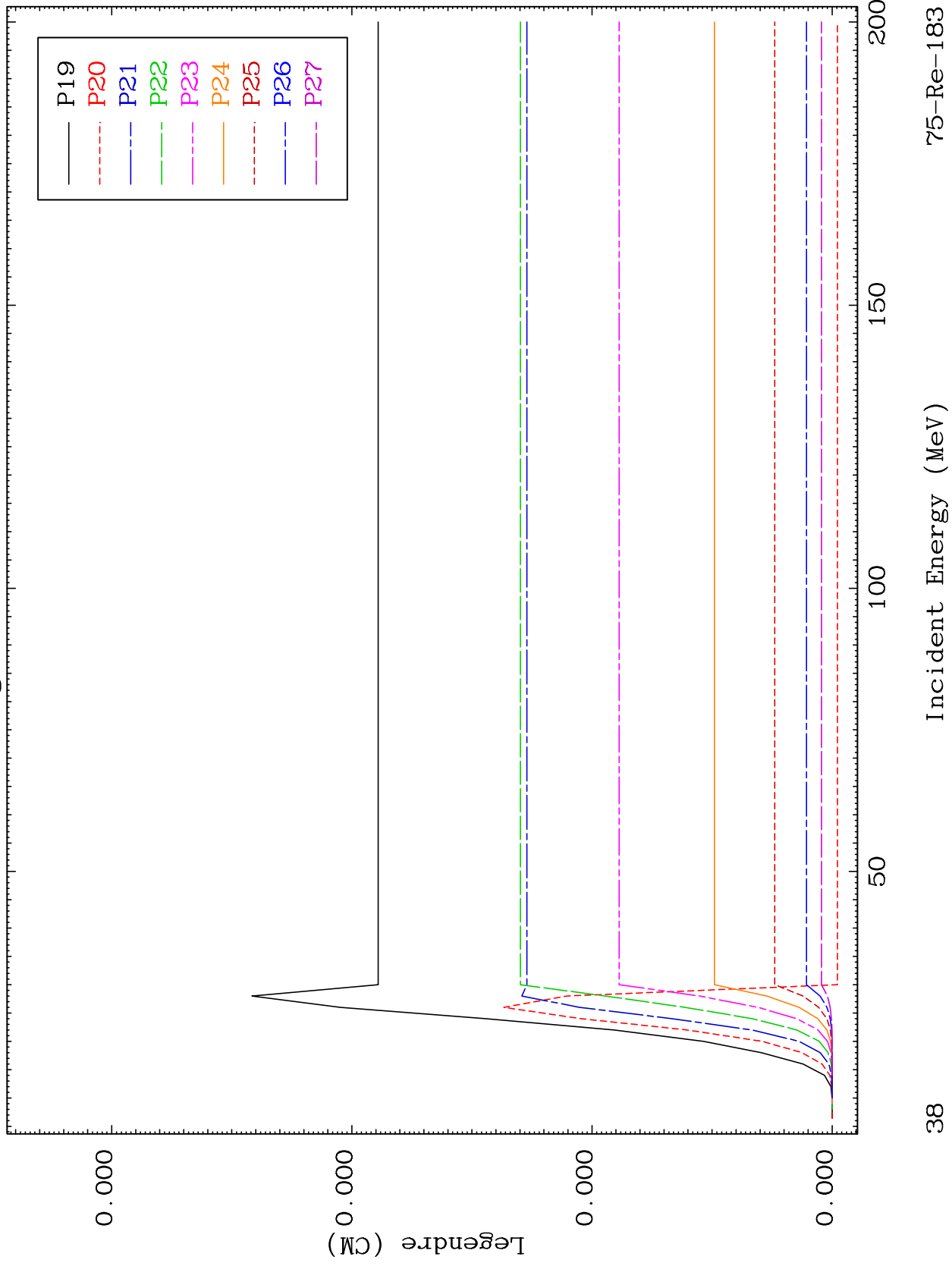
Incident Energy (MeV)

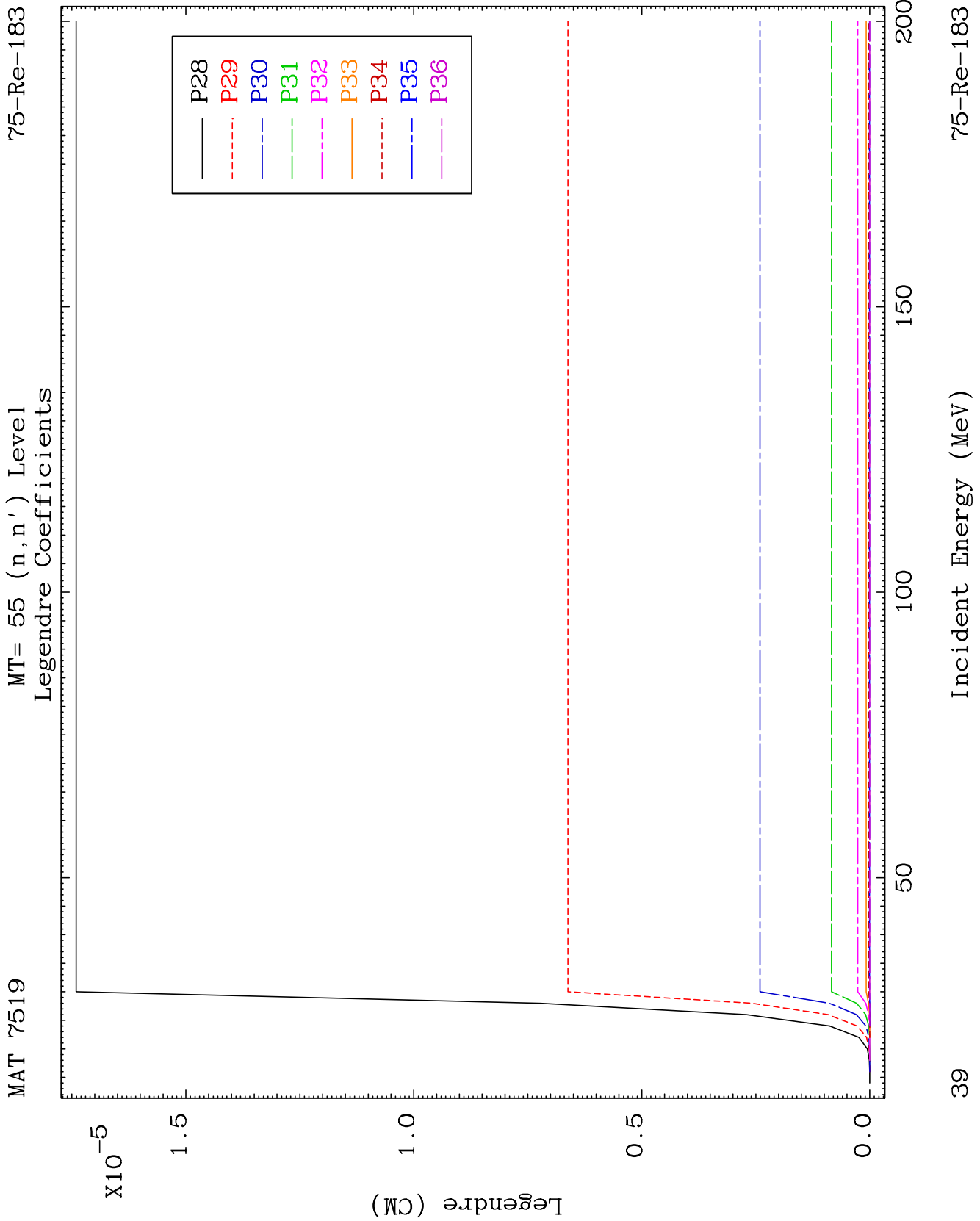
75-Re-183

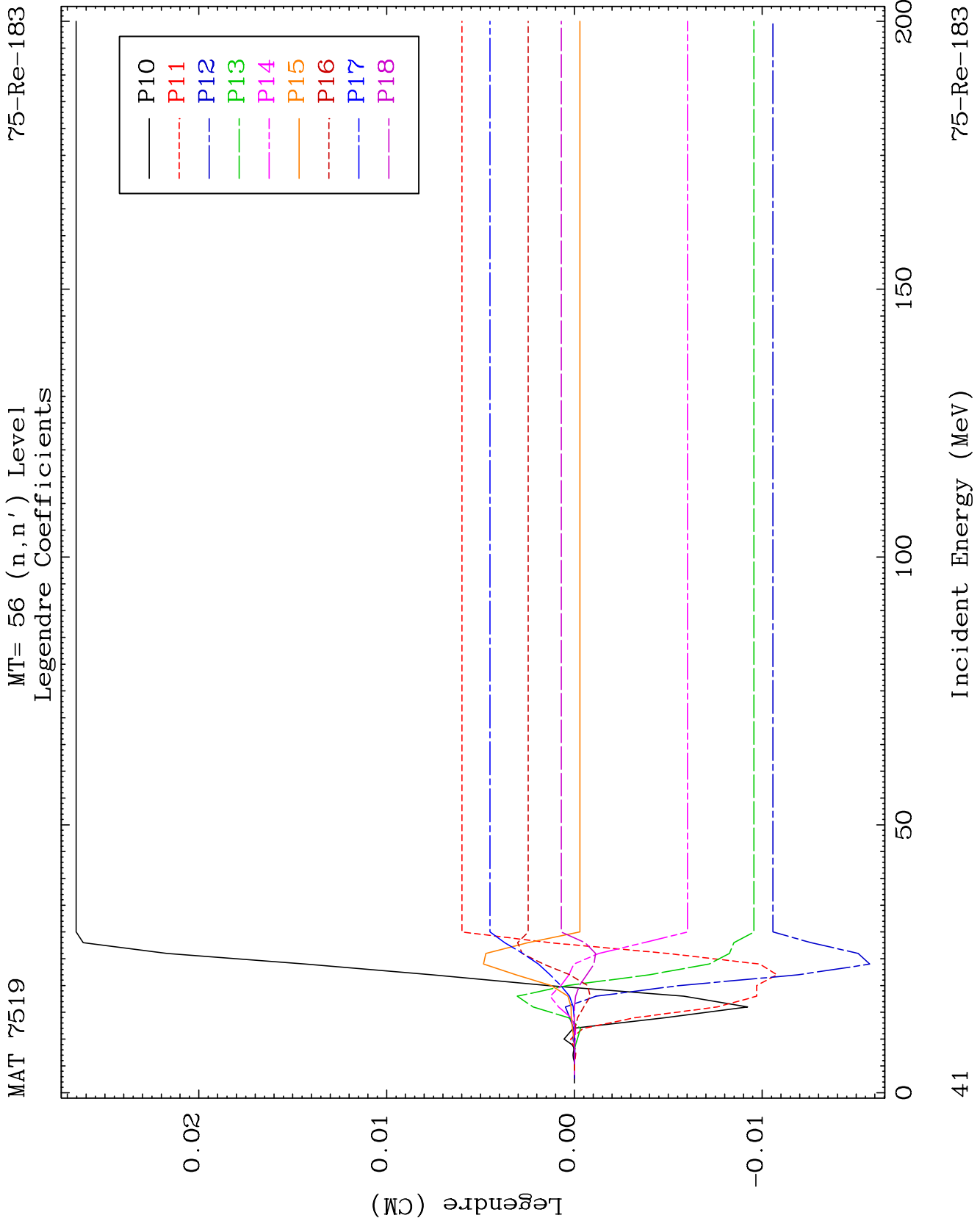
MAT 7519

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

75-Re-183



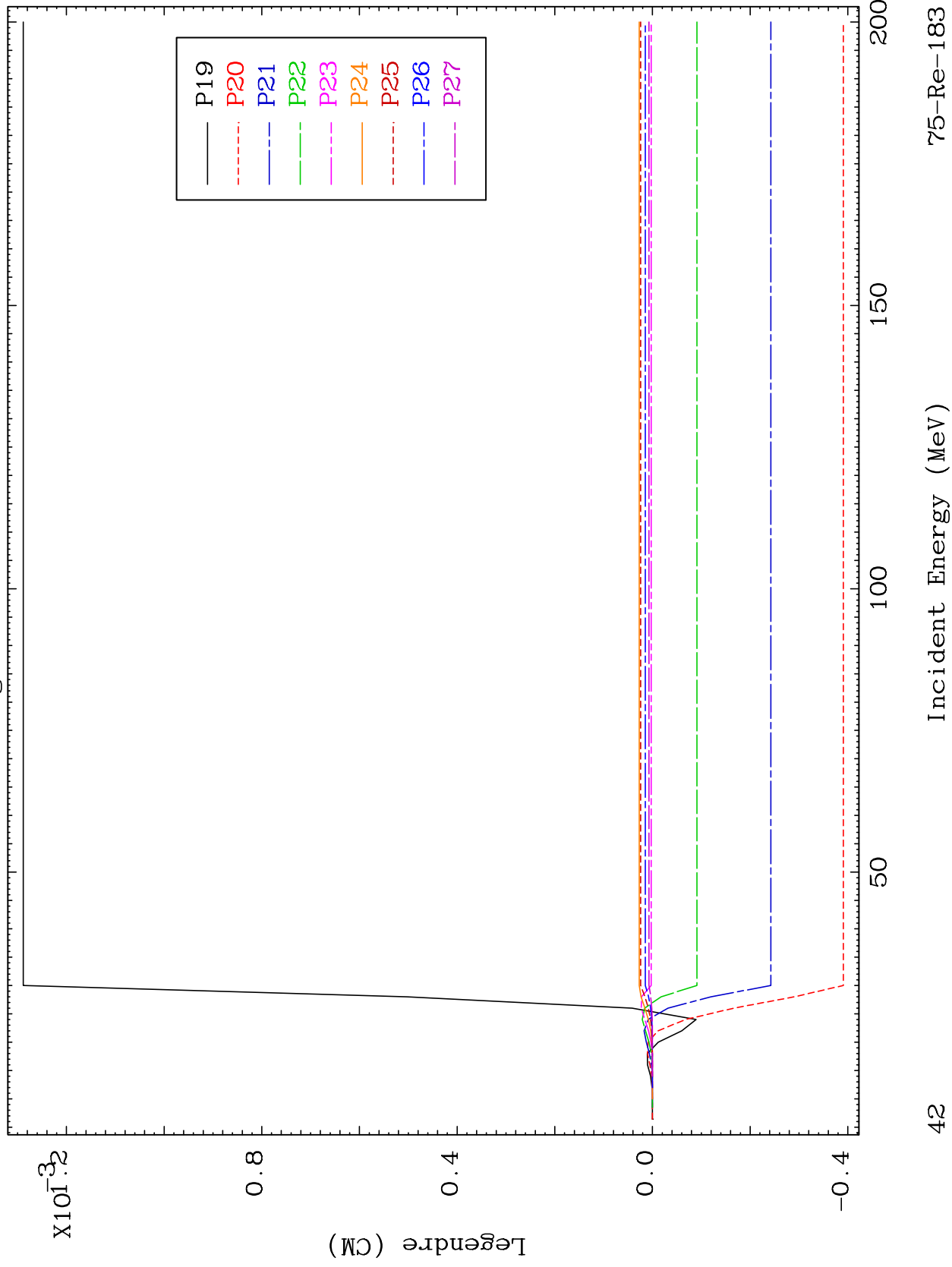




MAT 7519

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

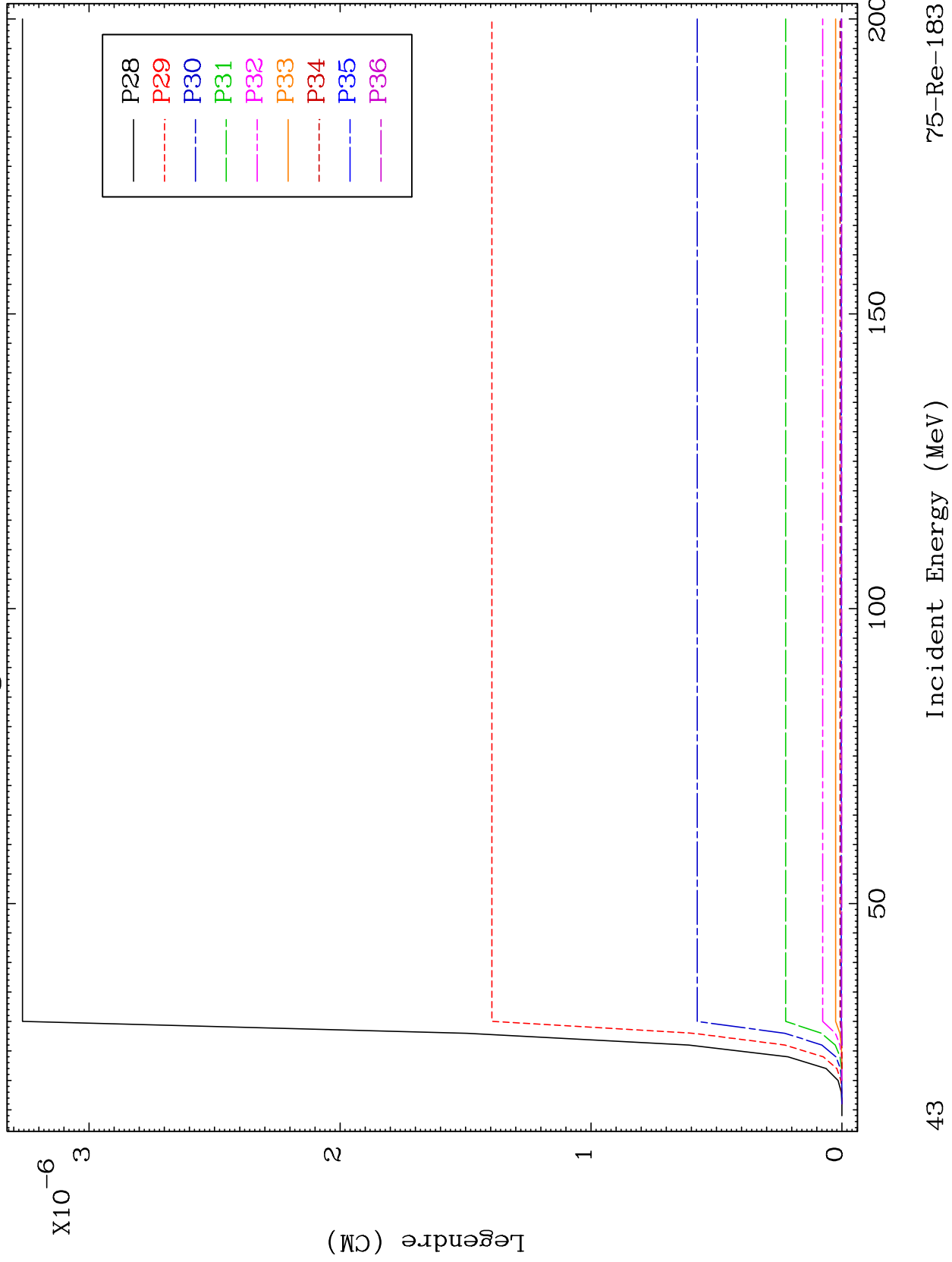
75-Re-183

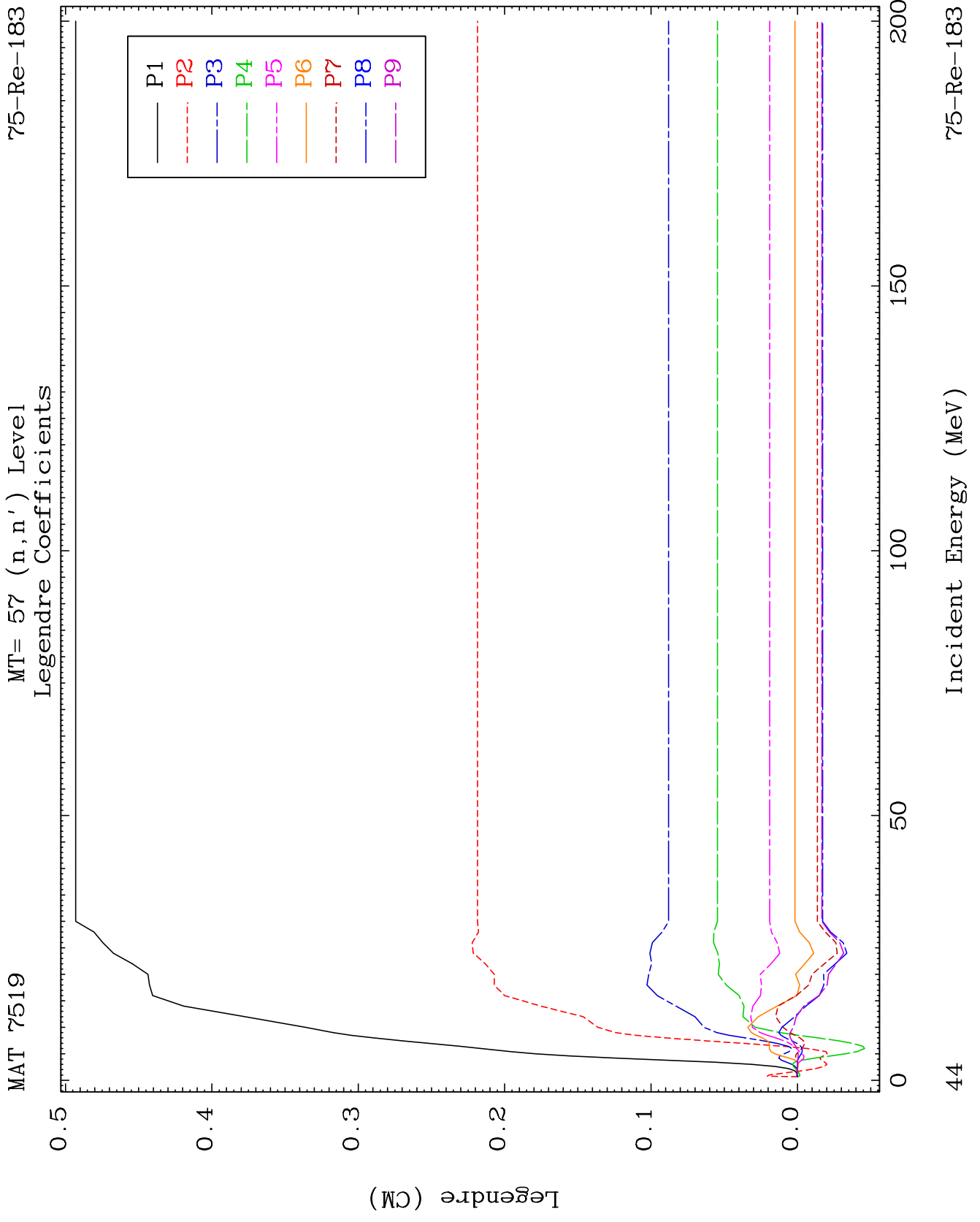


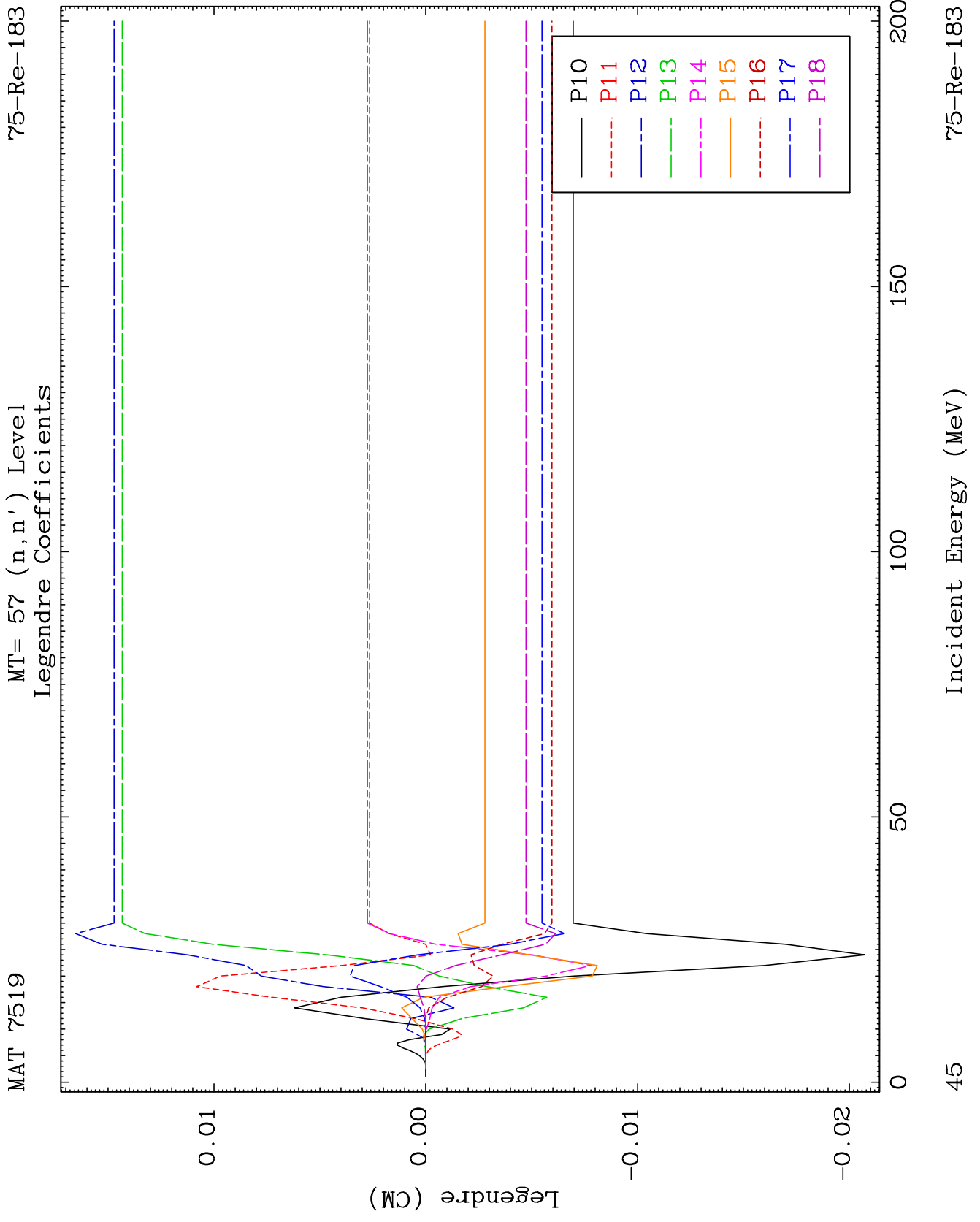
MAT 7519

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

75-Re-183



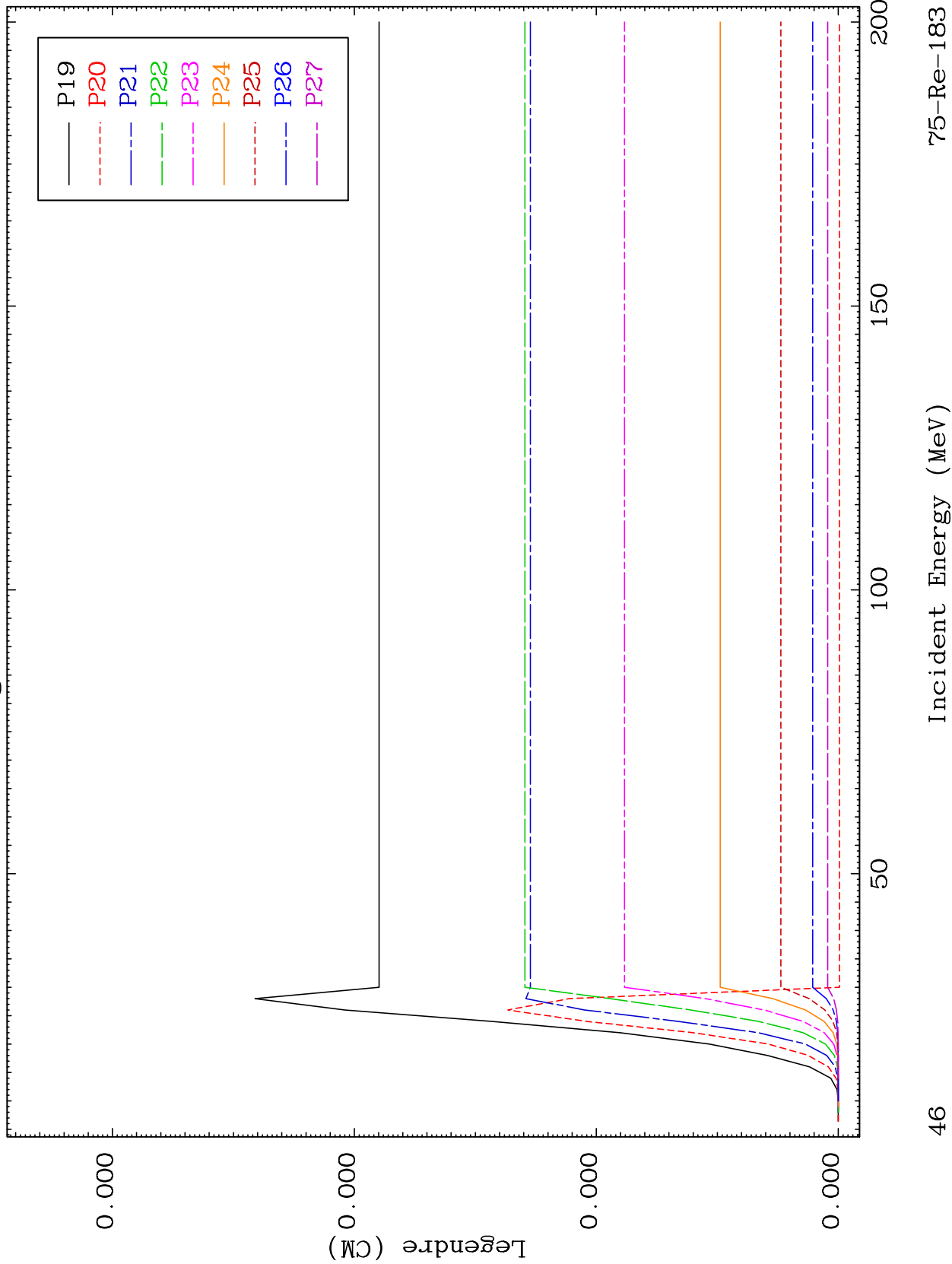




MAT 7519

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

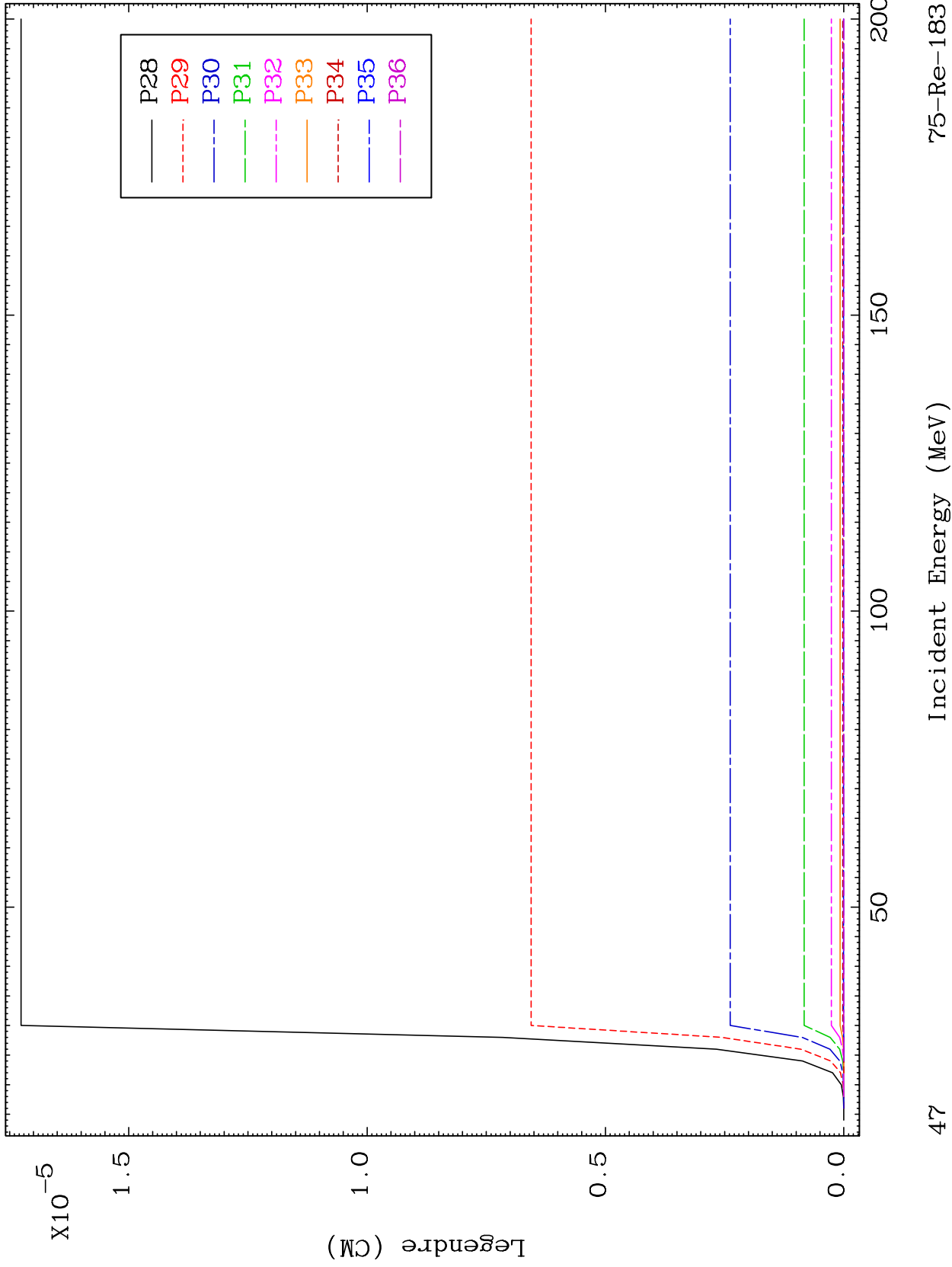
75-Re-183



MAT 7519

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

75-Re-183



47

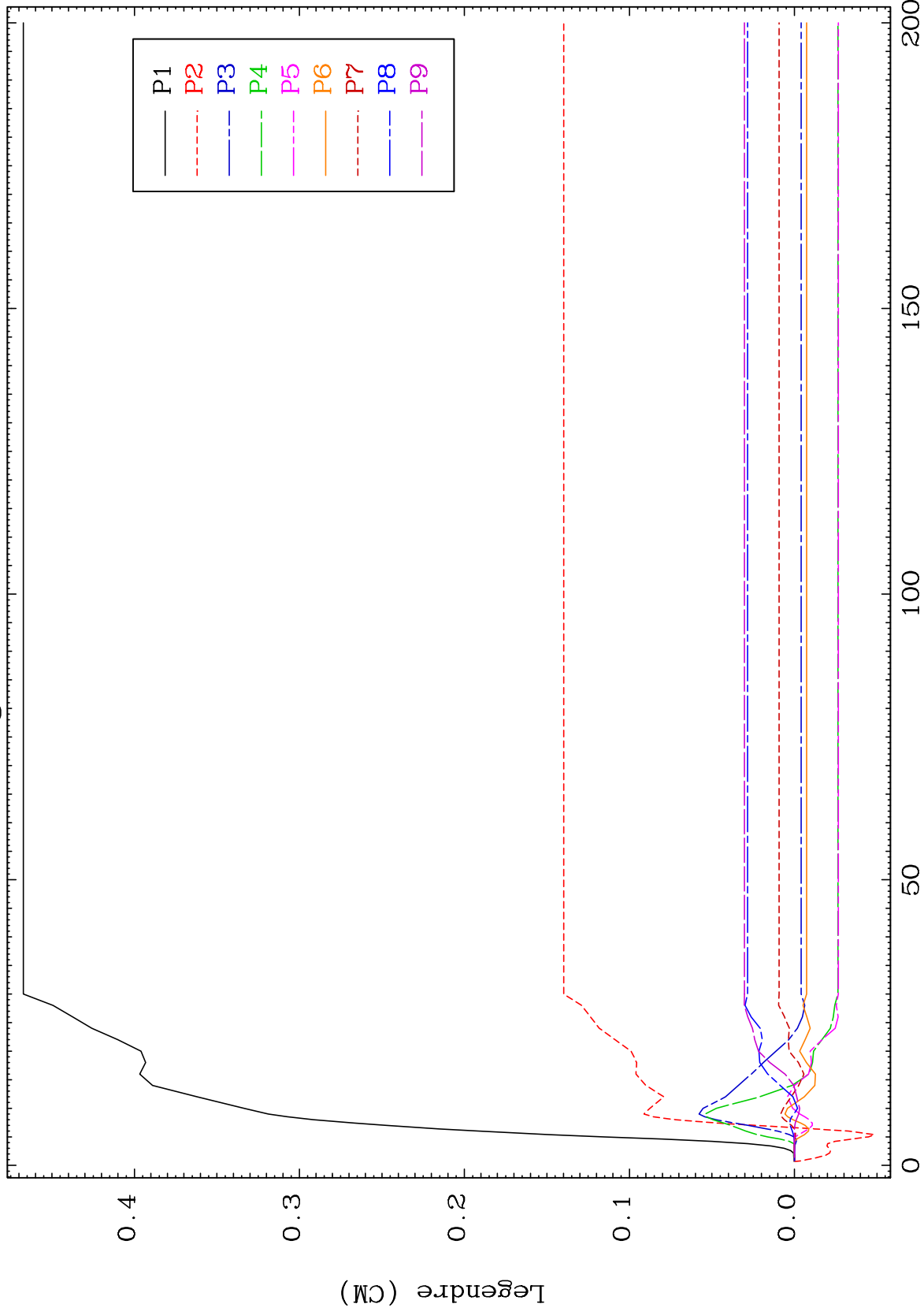
Incident Energy (MeV)

75-Re-183

MAT 7519

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

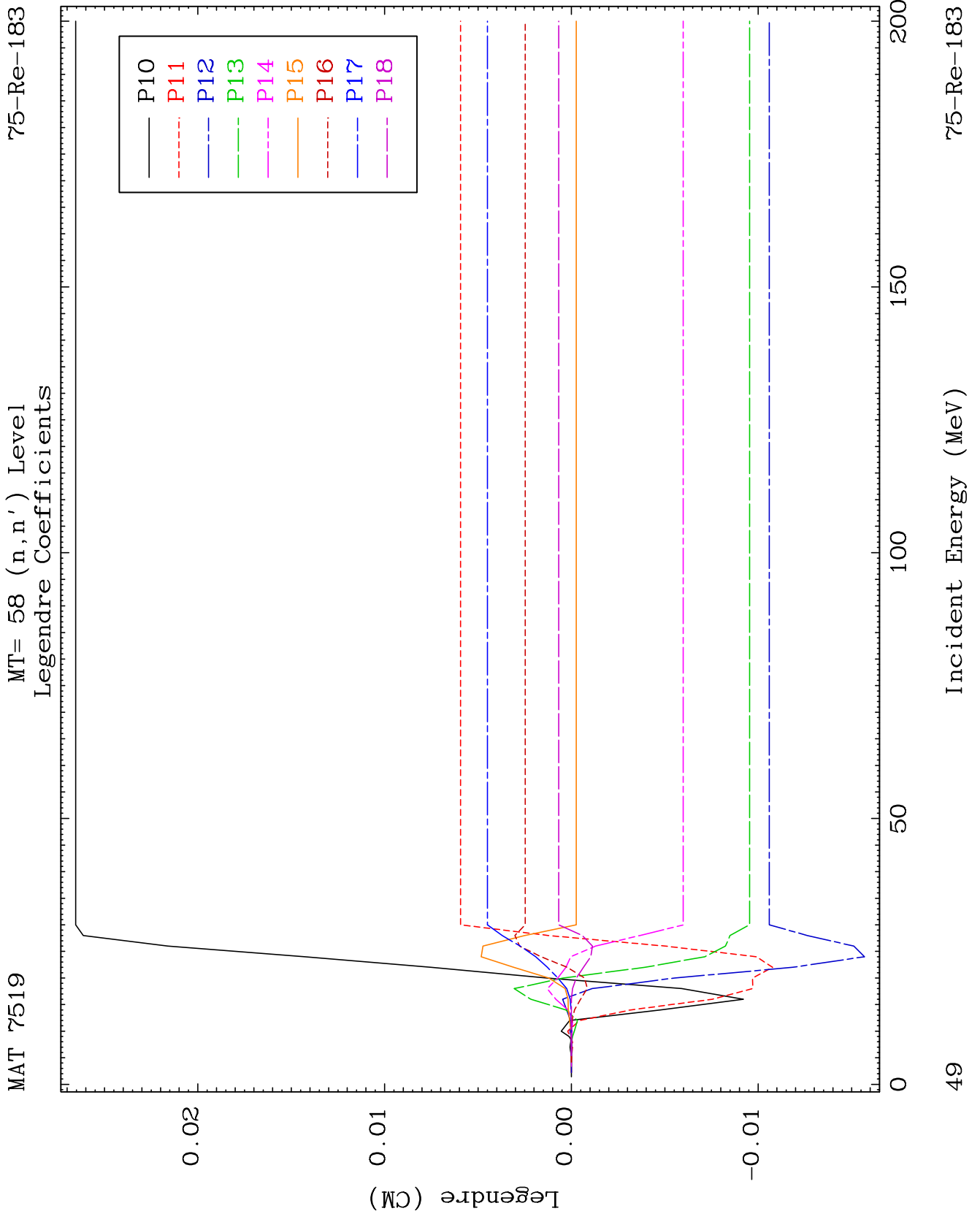
75-Re-183



48

Incident Energy (MeV)

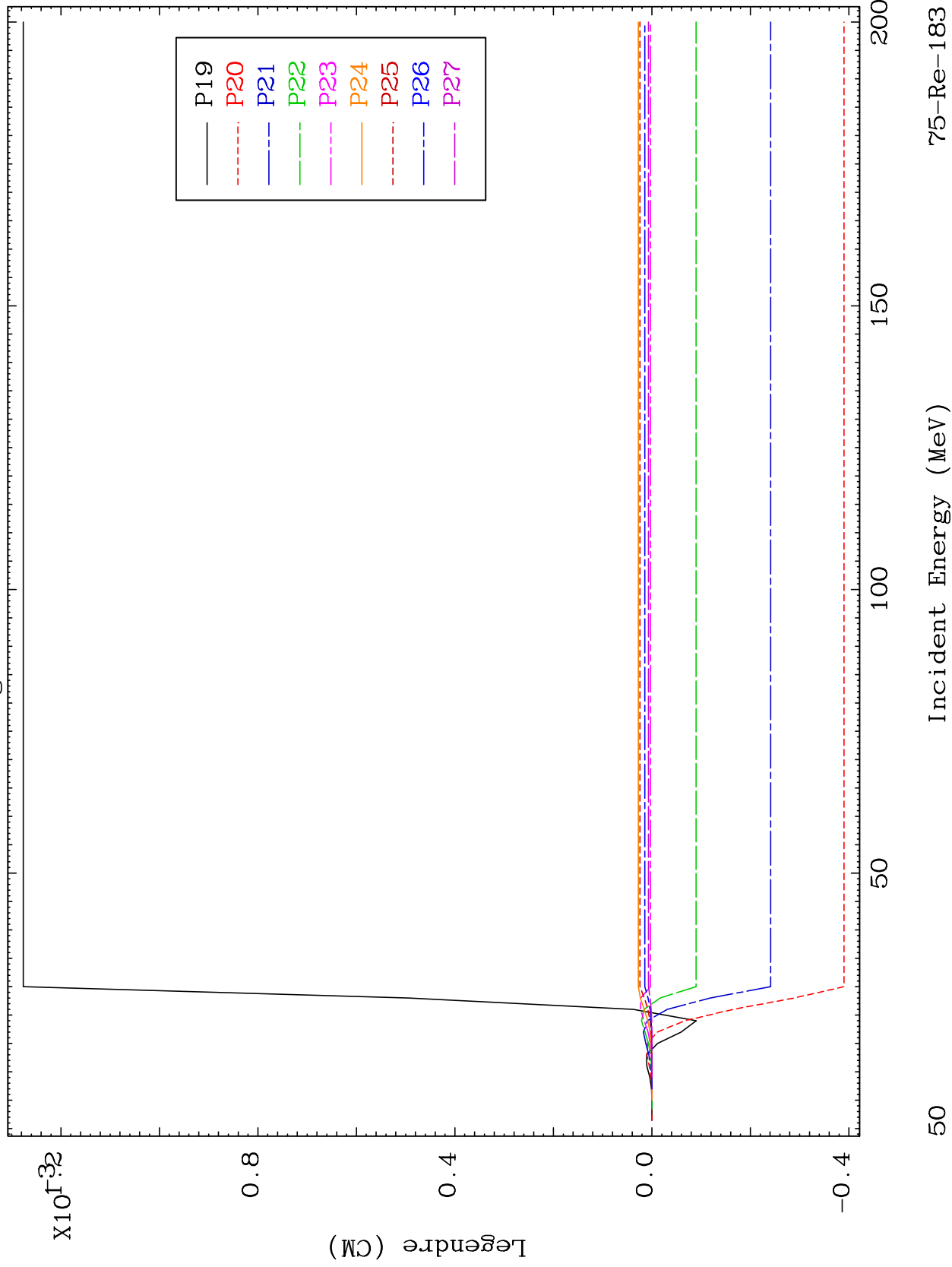
75-Re-183



MAT 7519

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

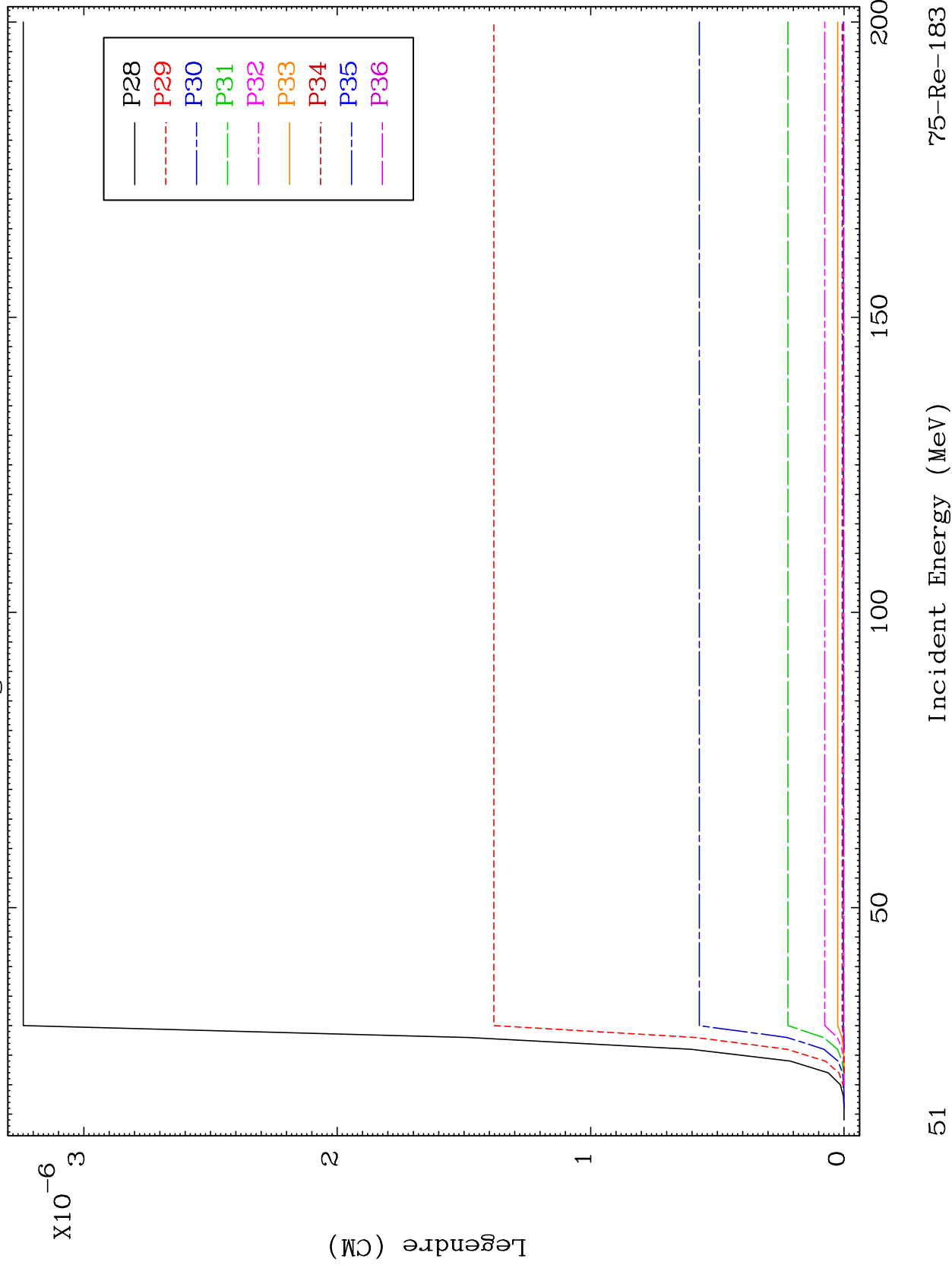
75-Re-183



MAT 7519

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

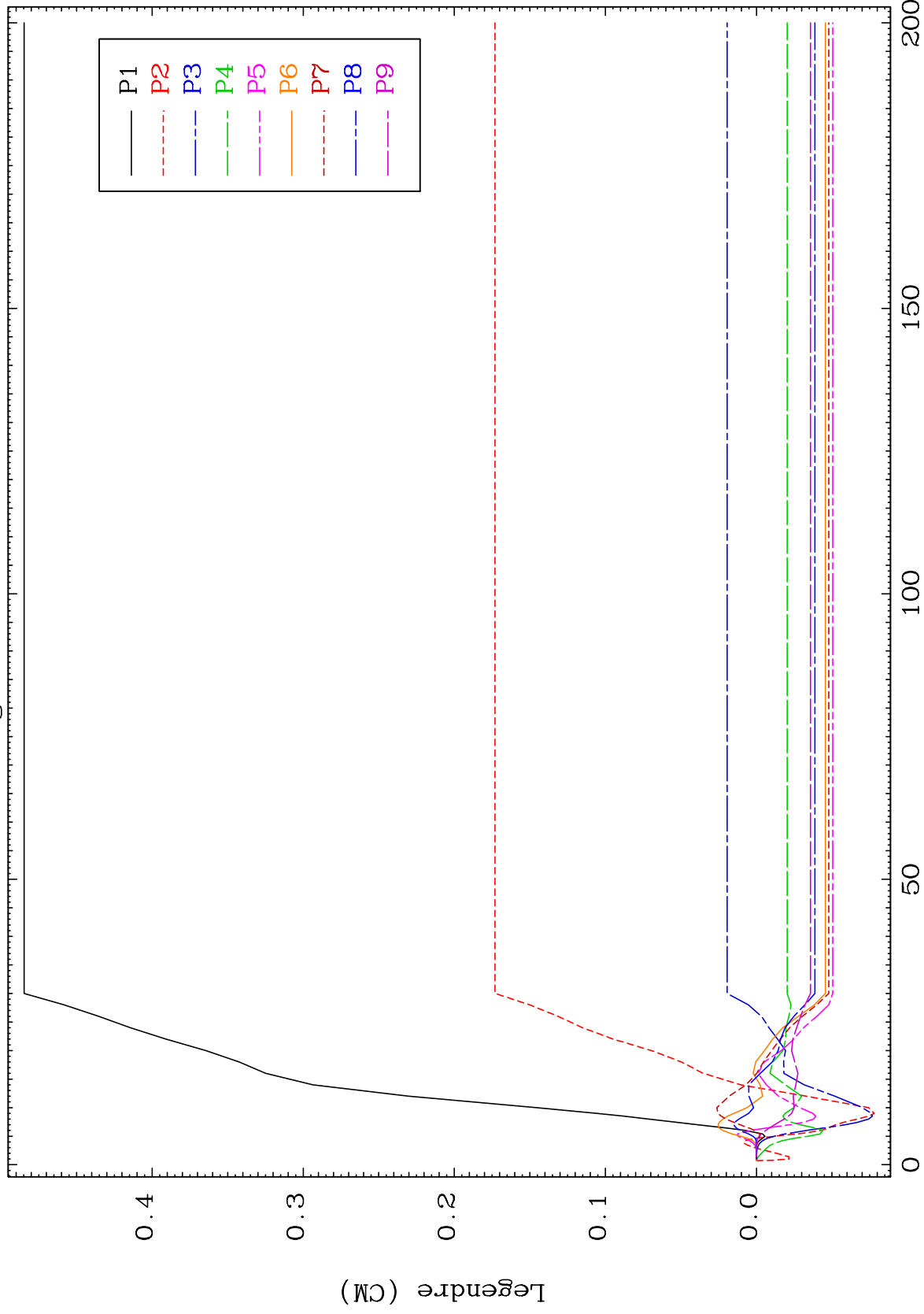
75-Re-183



MAT 7519

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

75-Re-183



52

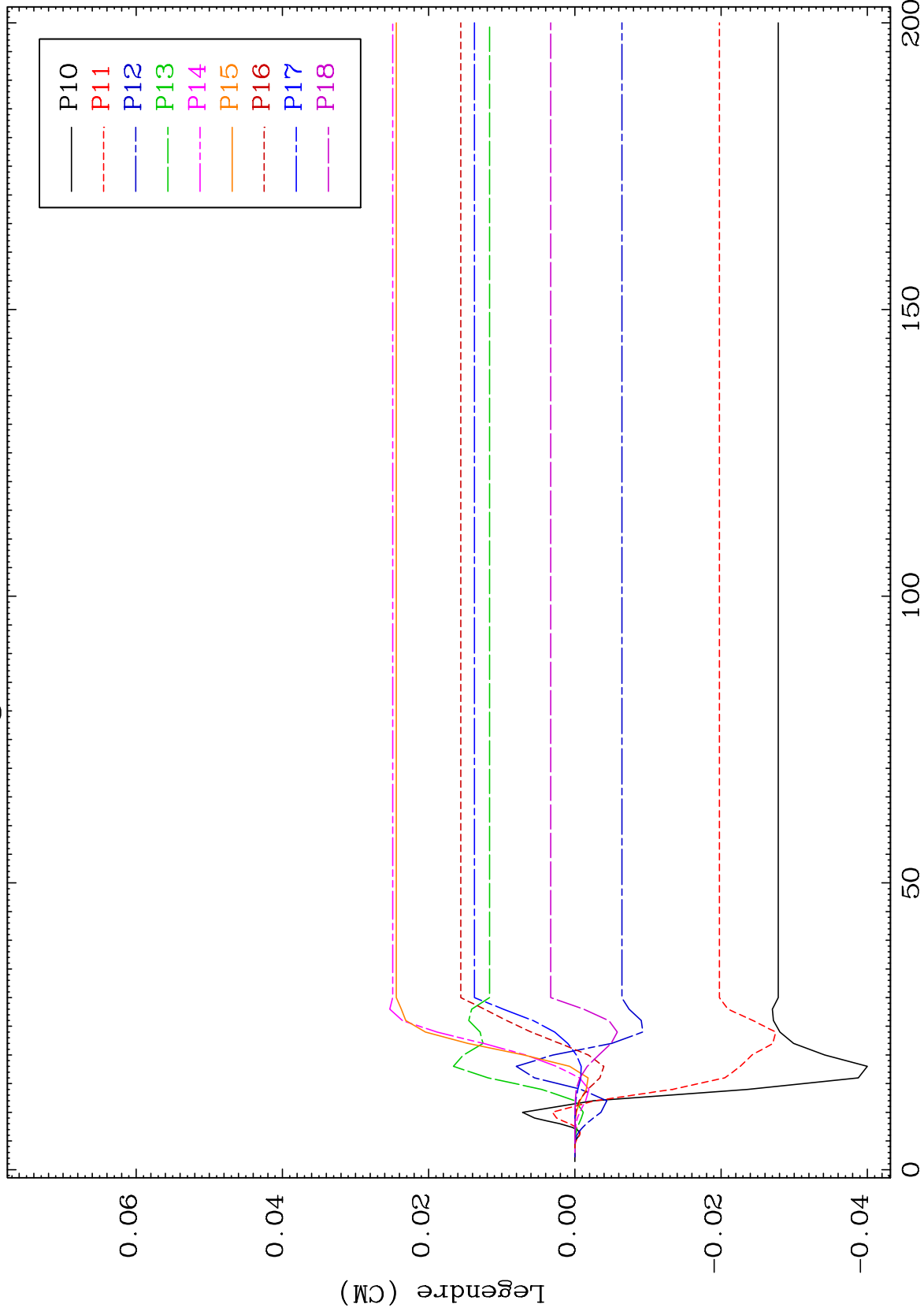
Incident Energy (MeV)

75-Re-183

MAT 7519

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

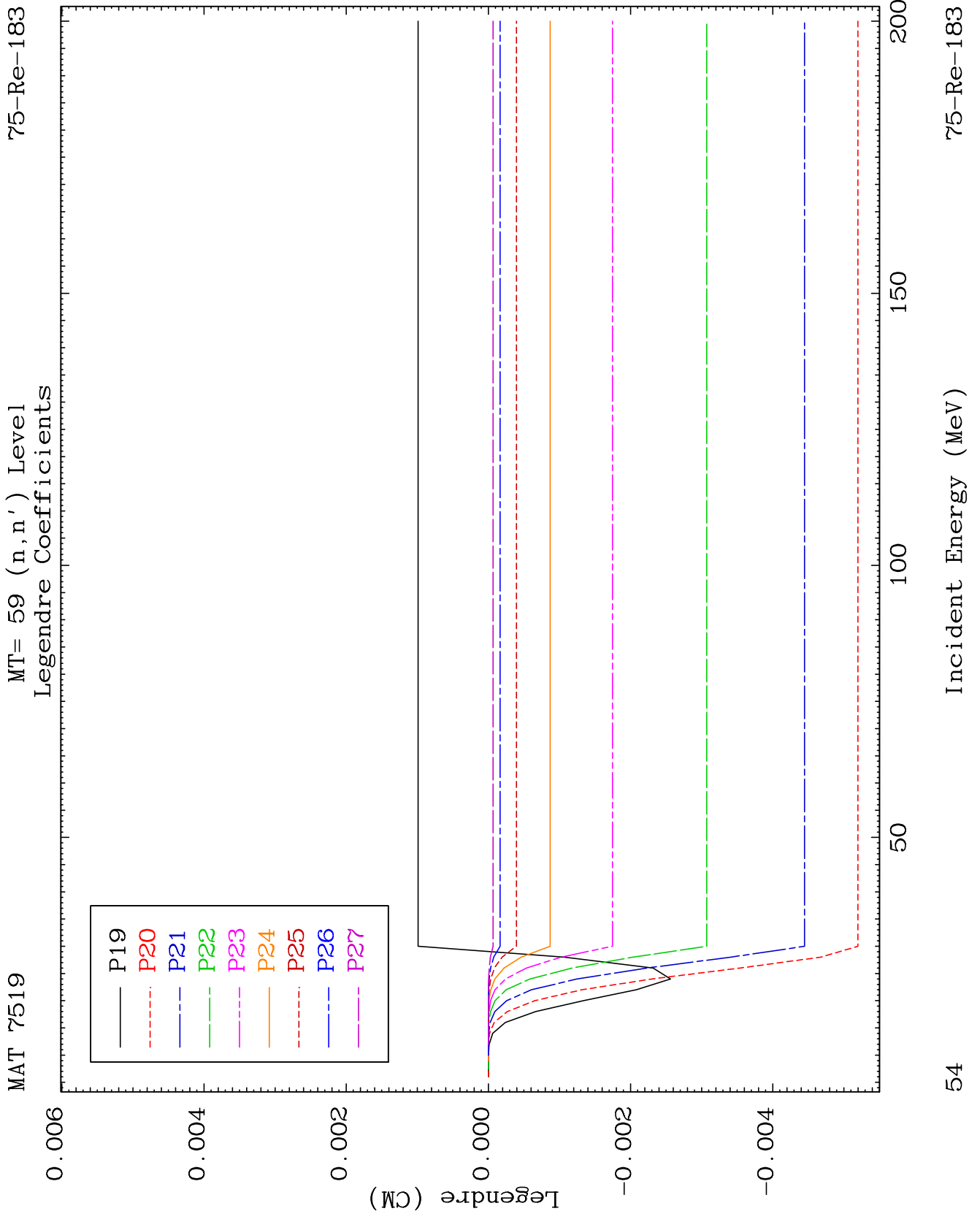
75-Re-183

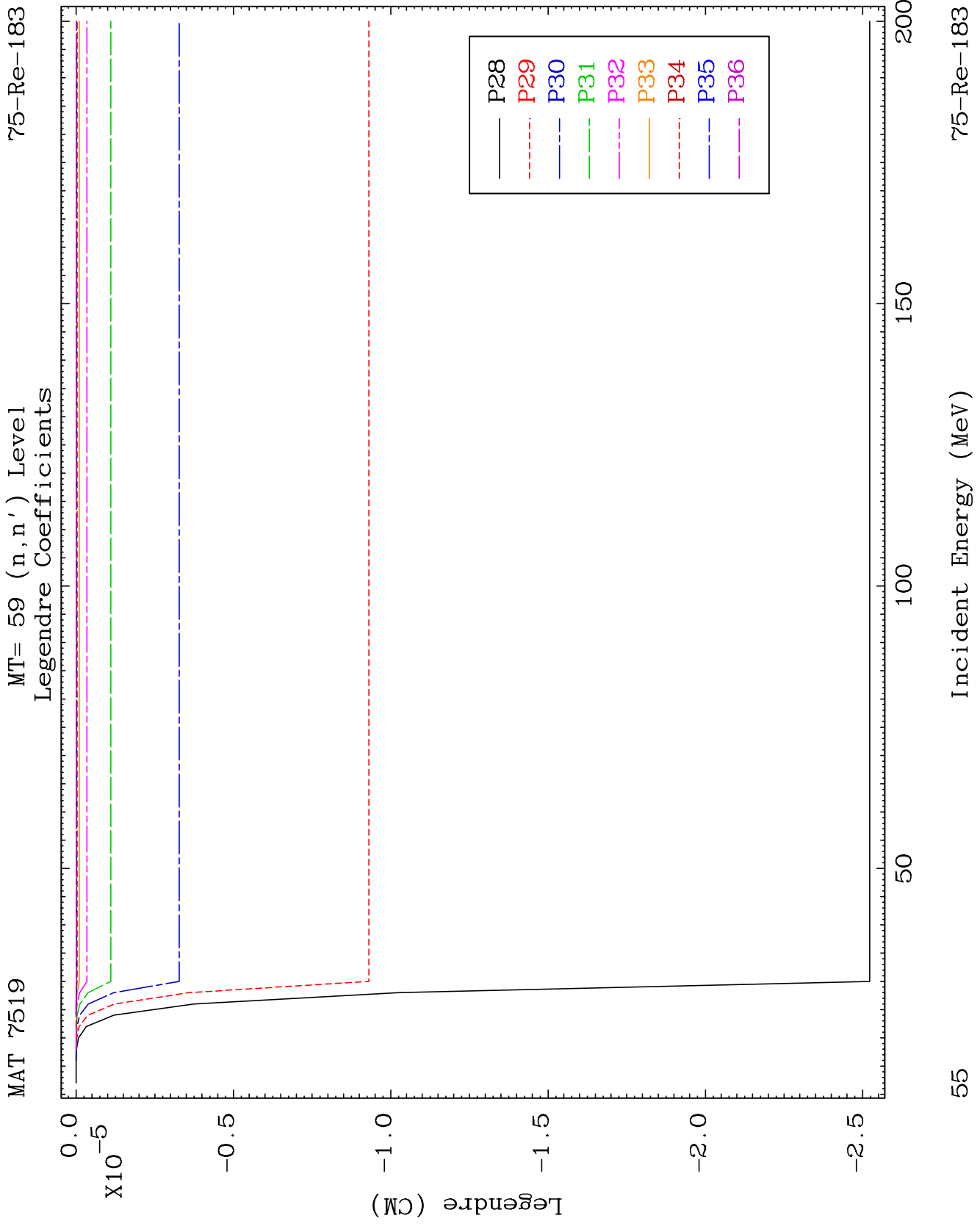


53

Incident Energy (MeV)

75-Re-183

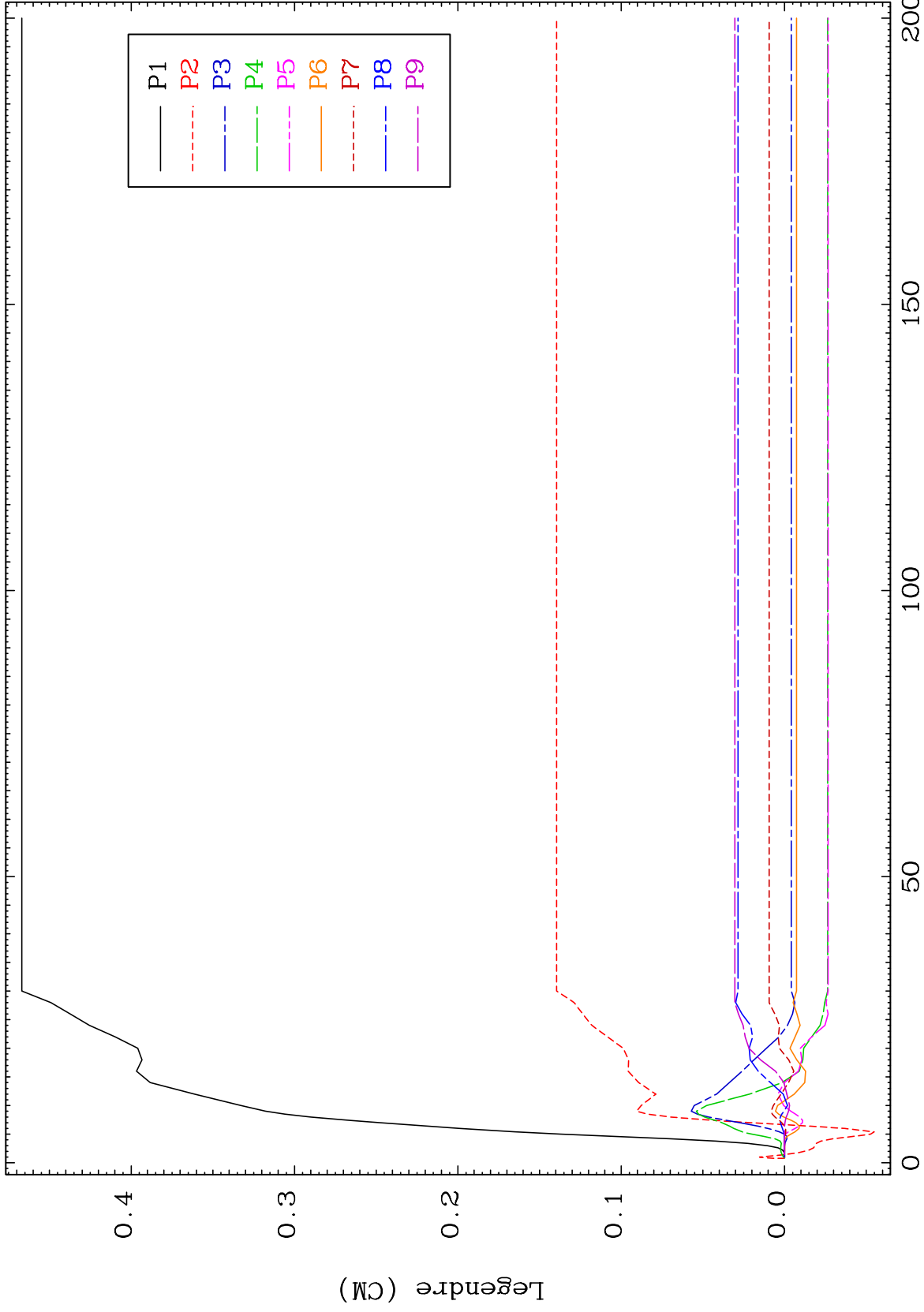




MAT 7519

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

75-Re-183



56

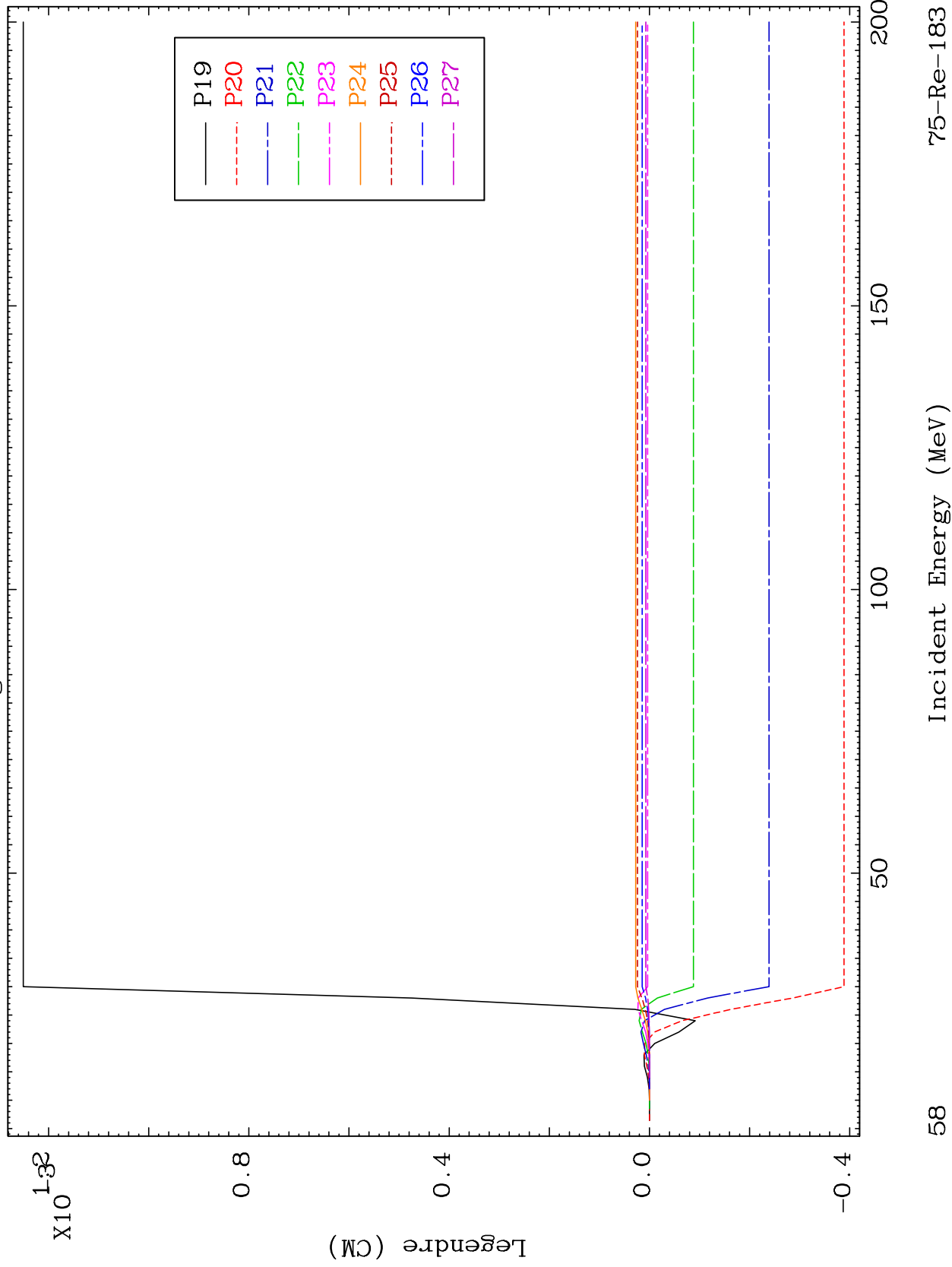
Incident Energy (MeV)

75-Re-183

MAT 7519

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

75-Re-183



58

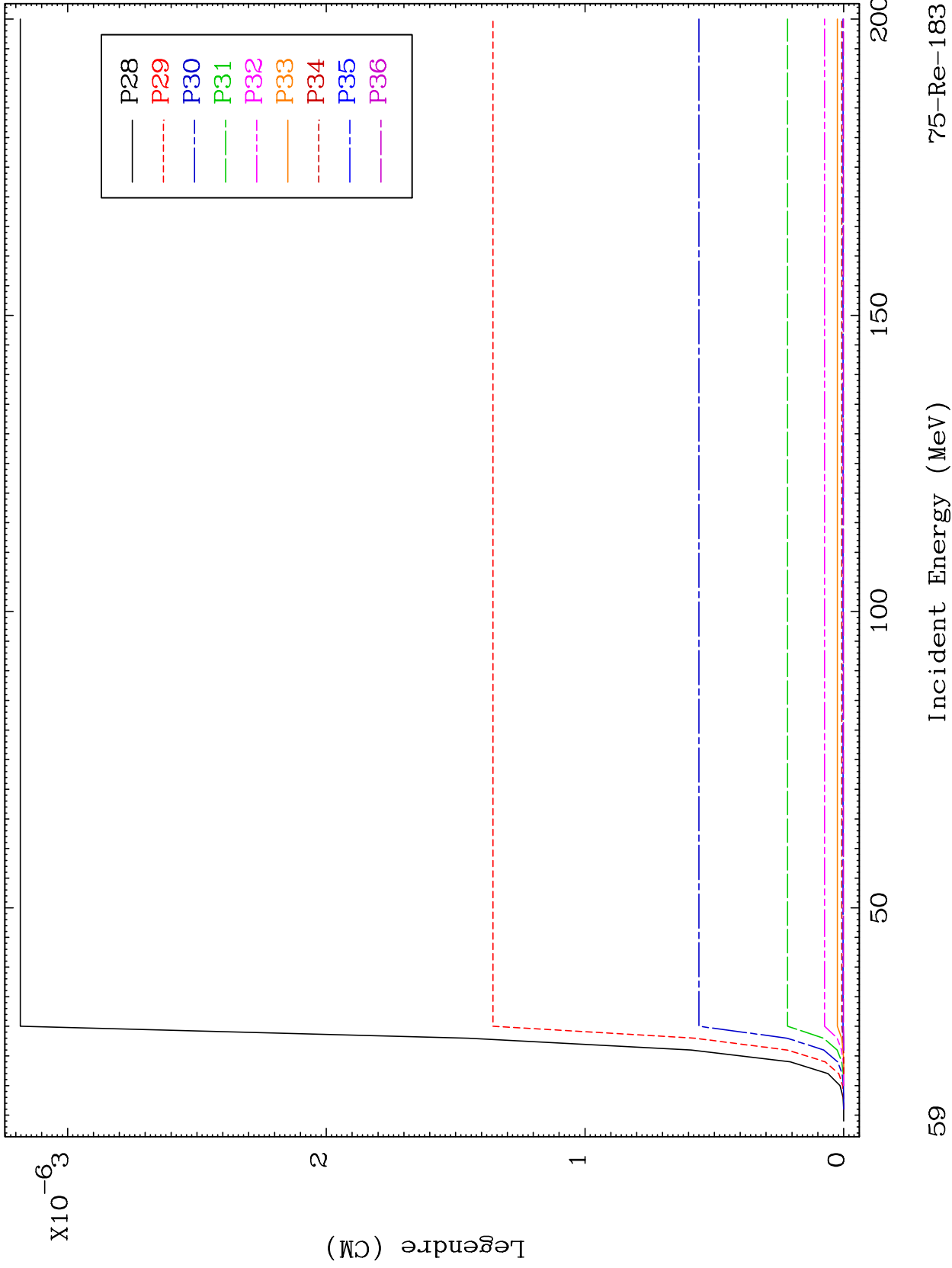
Incident Energy (MeV)

75-Re-183

MAT 7519

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

75-Re-183



59

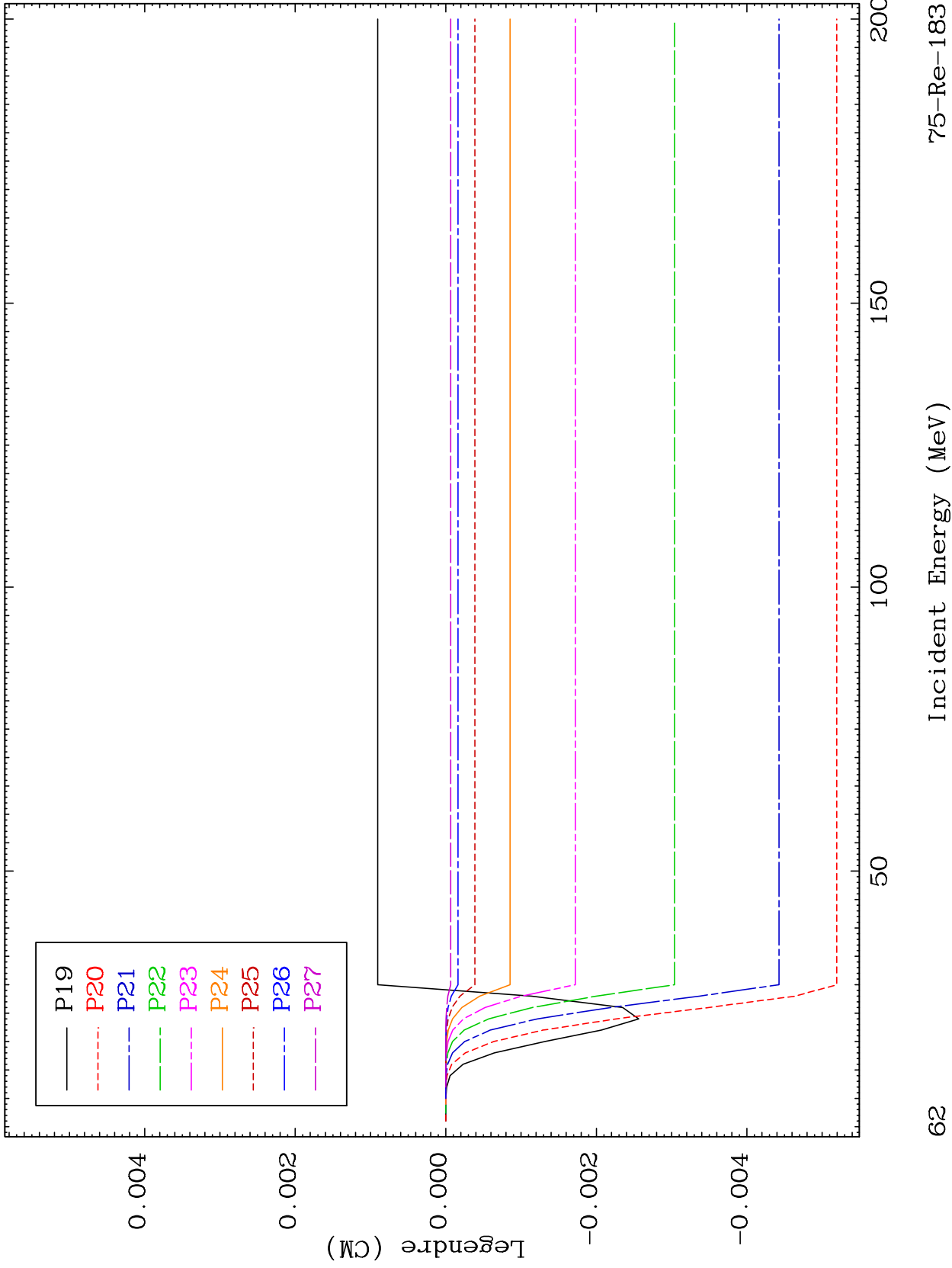
Incident Energy (MeV)

75-Re-183

MAT 7519

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

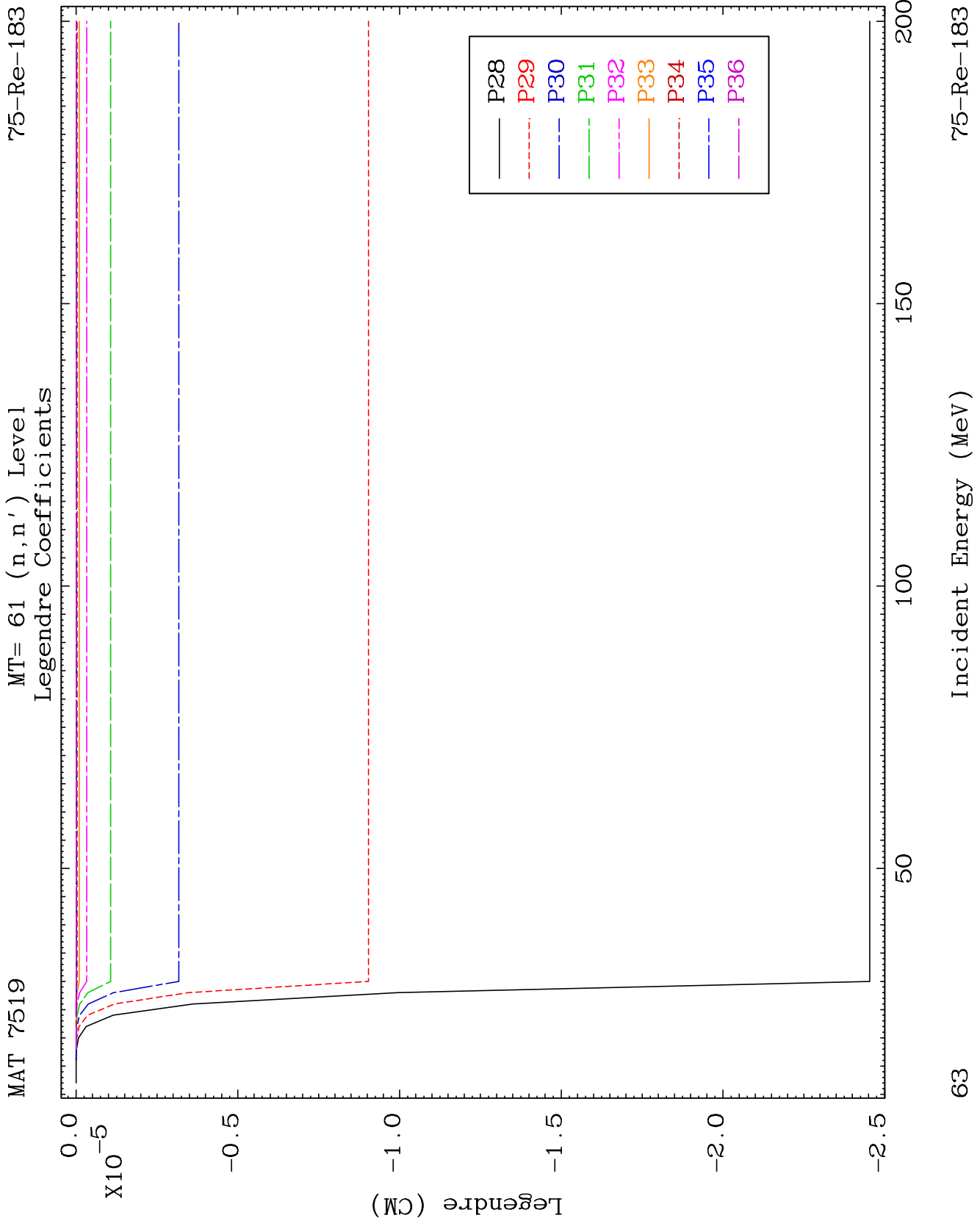
75-Re-183



62

Incident Energy (MeV)

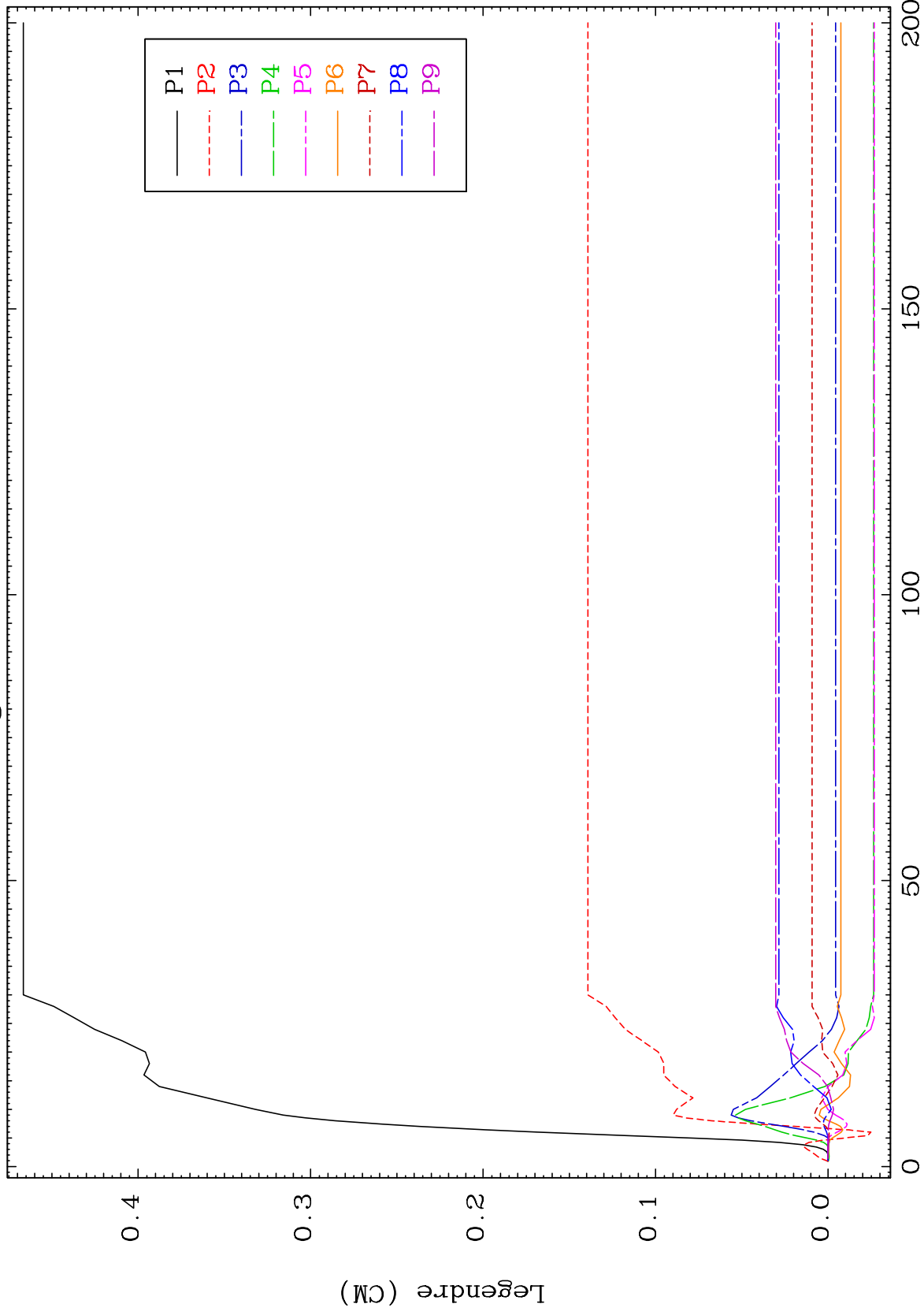
75-Re-183



MAT 7519

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

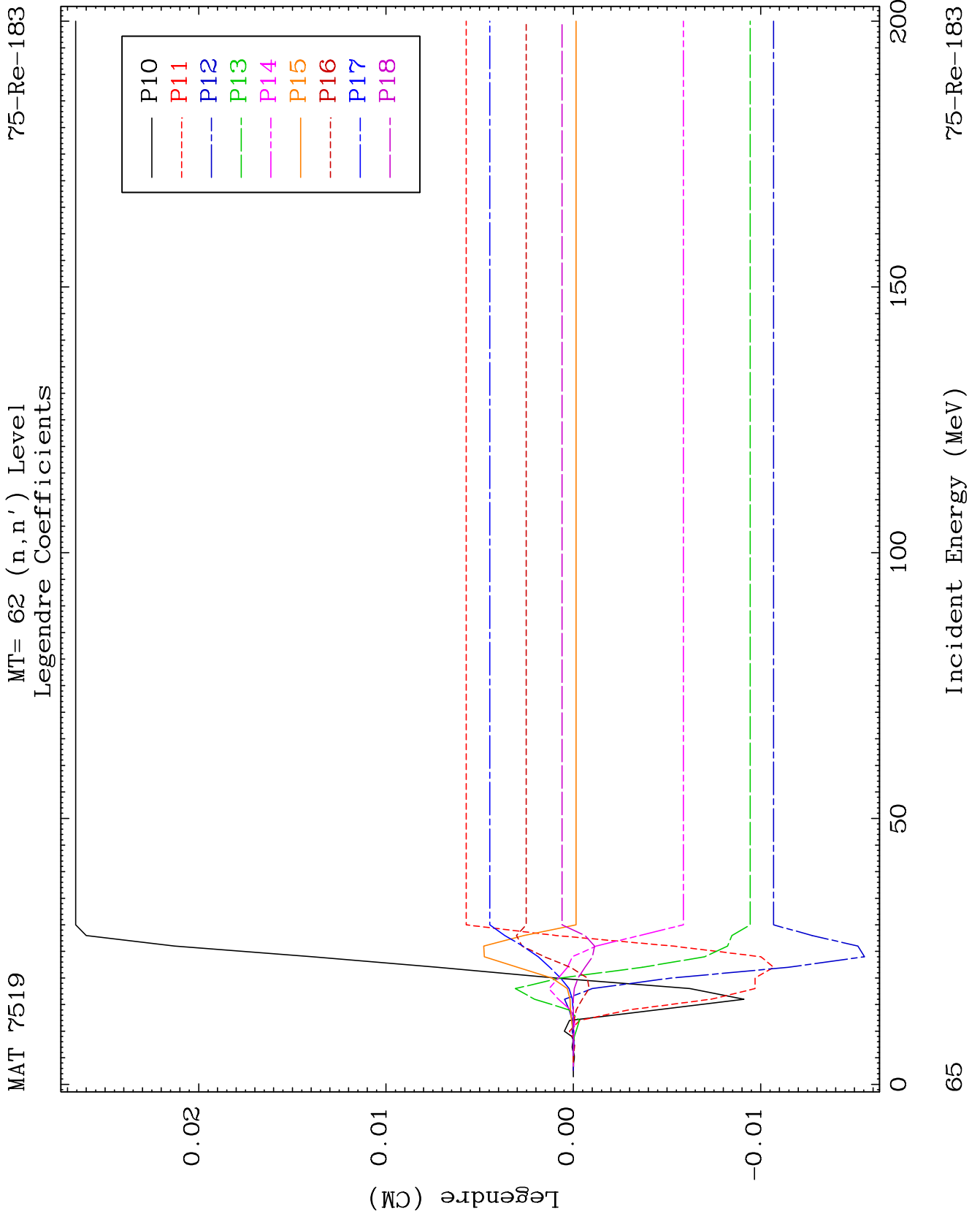
75-Re-183



64

Incident Energy (MeV)

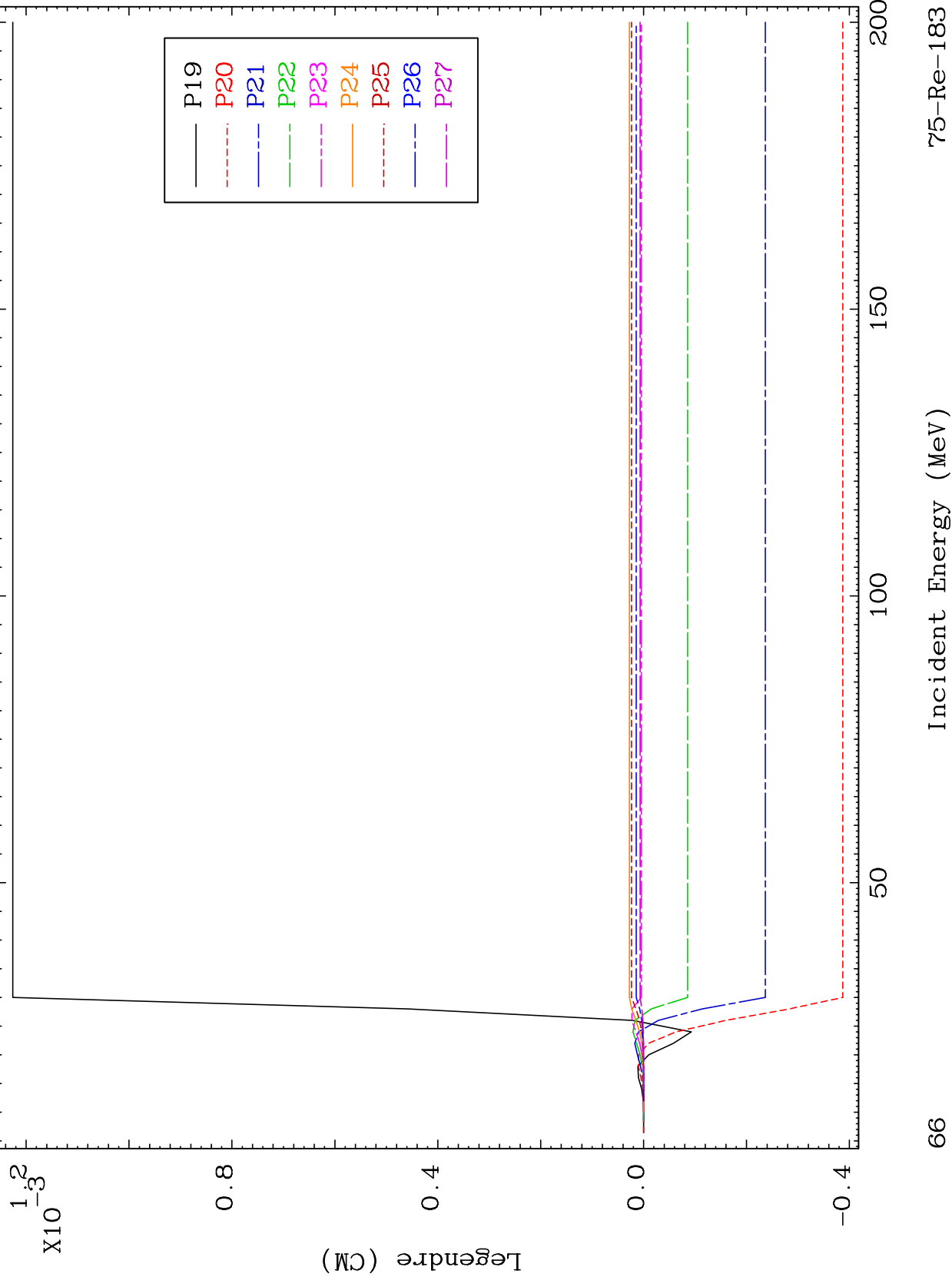
75-Re-183



MAT 7519

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

75-Re-183



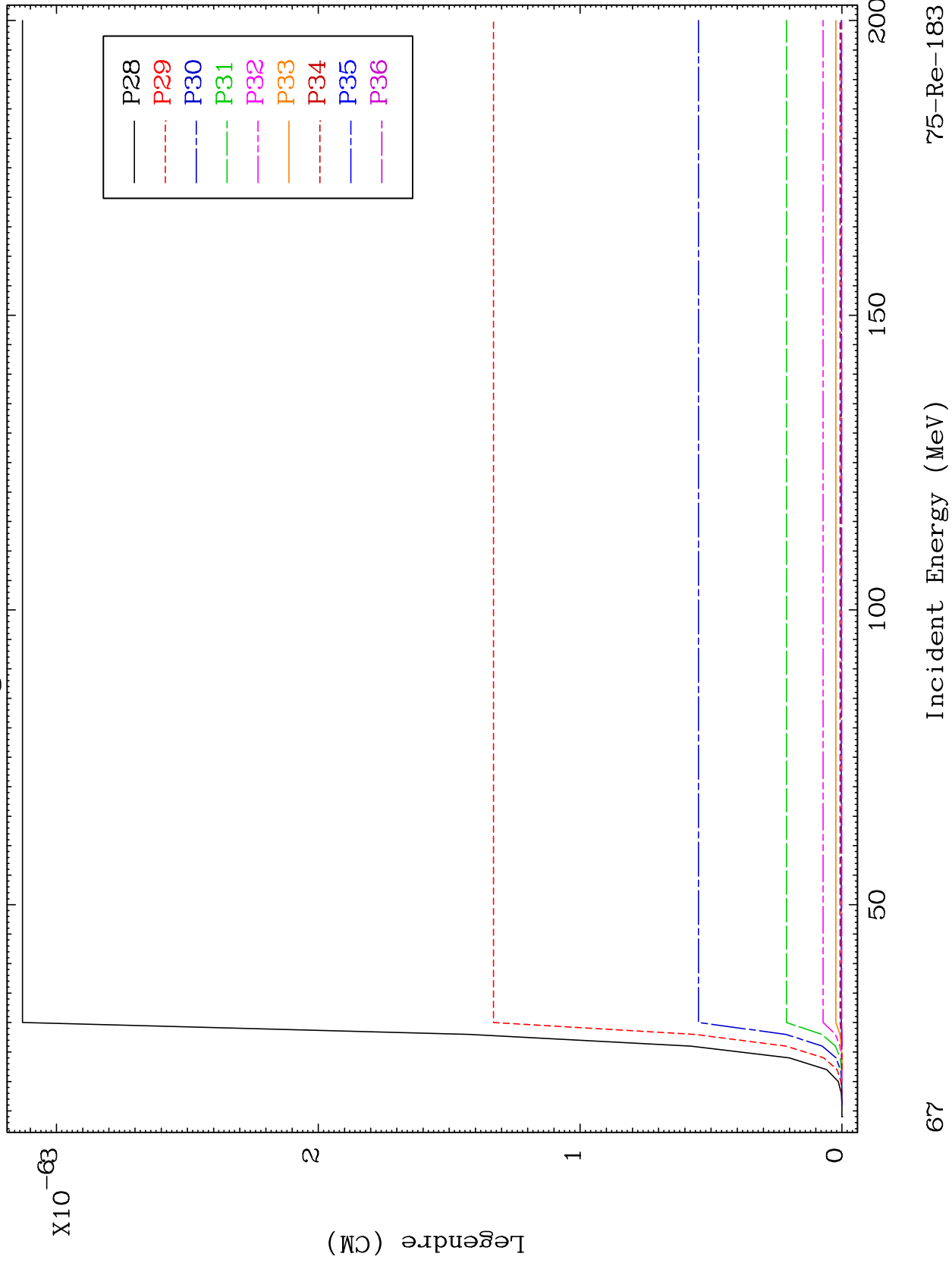
66

75-Re-183

MAT 7519

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

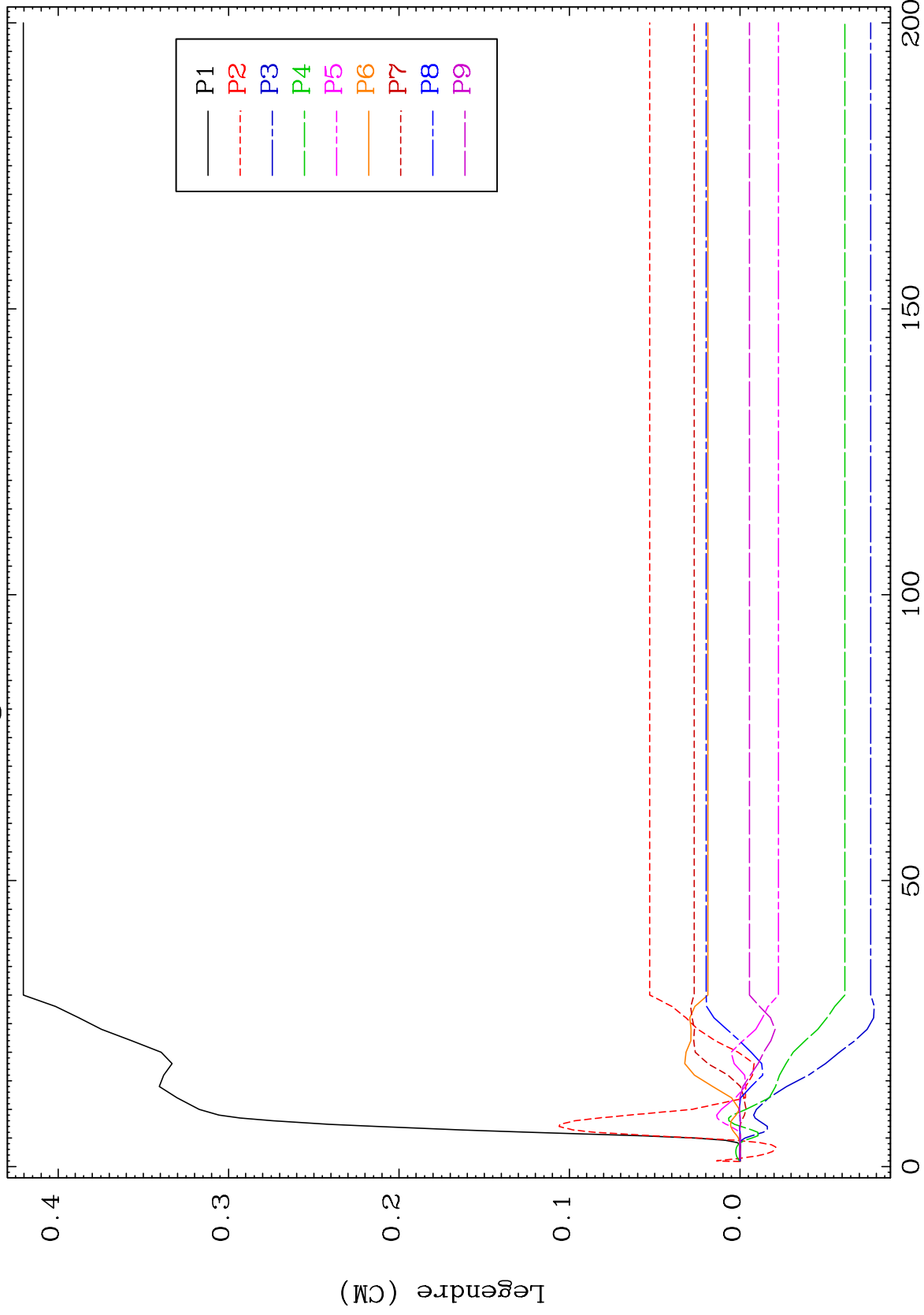
75-Re-183



MAT 7519

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

75-Re-183



68

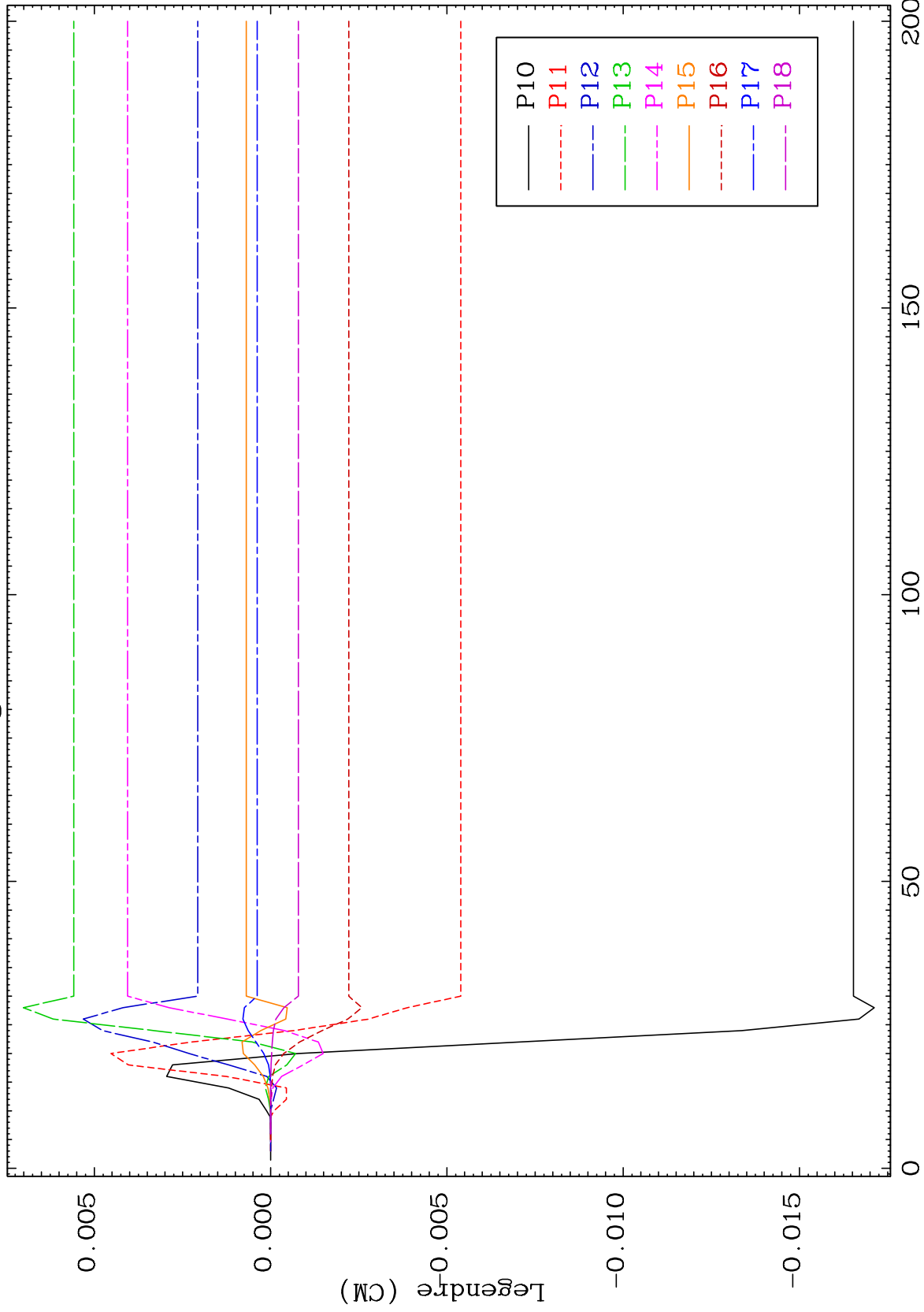
Incident Energy (MeV)

75-Re-183

MAT 7519

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

75-Re-183



69

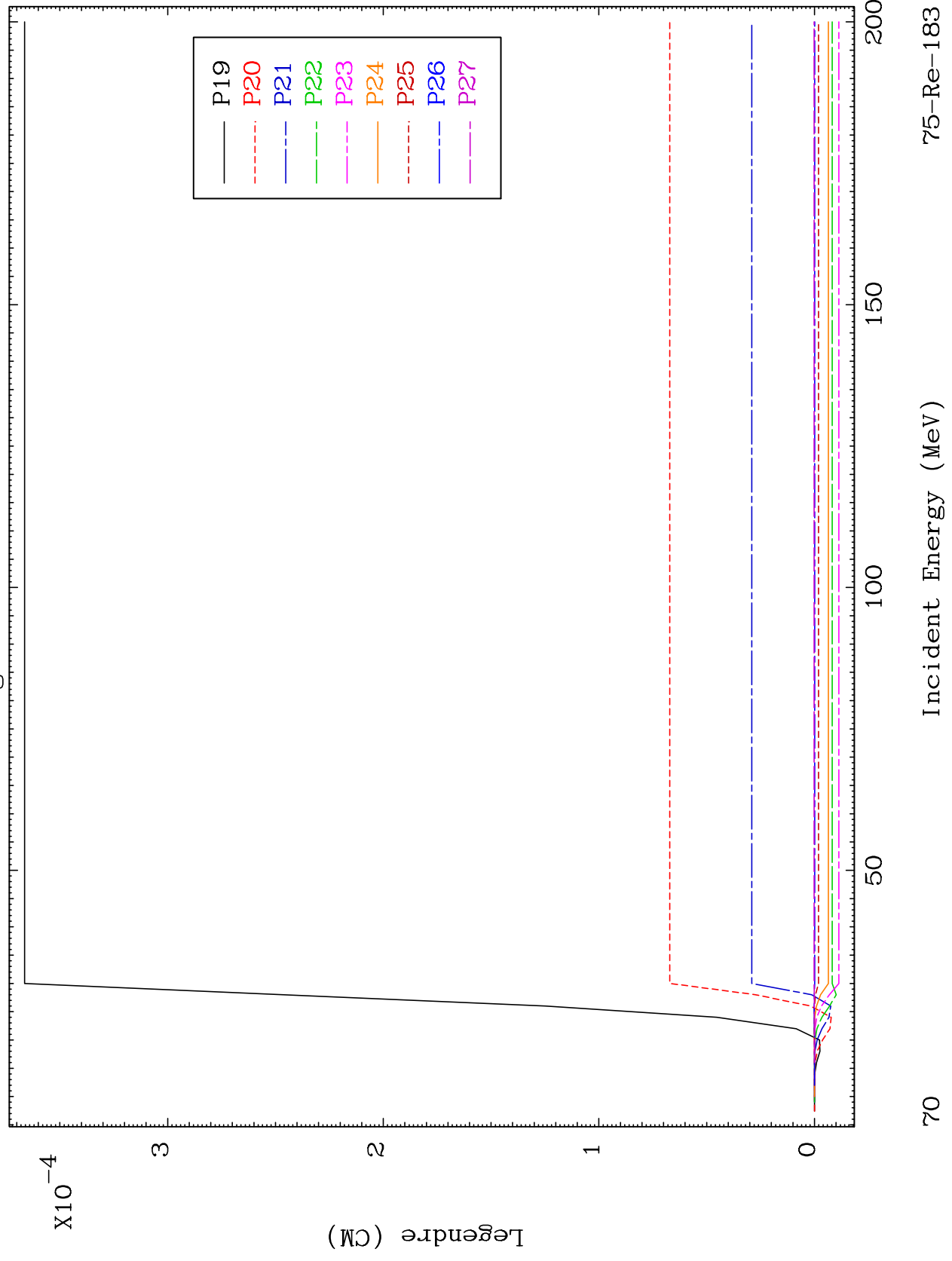
Incident Energy (MeV)

75-Re-183

MAT 7519

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

75-Re-183



70

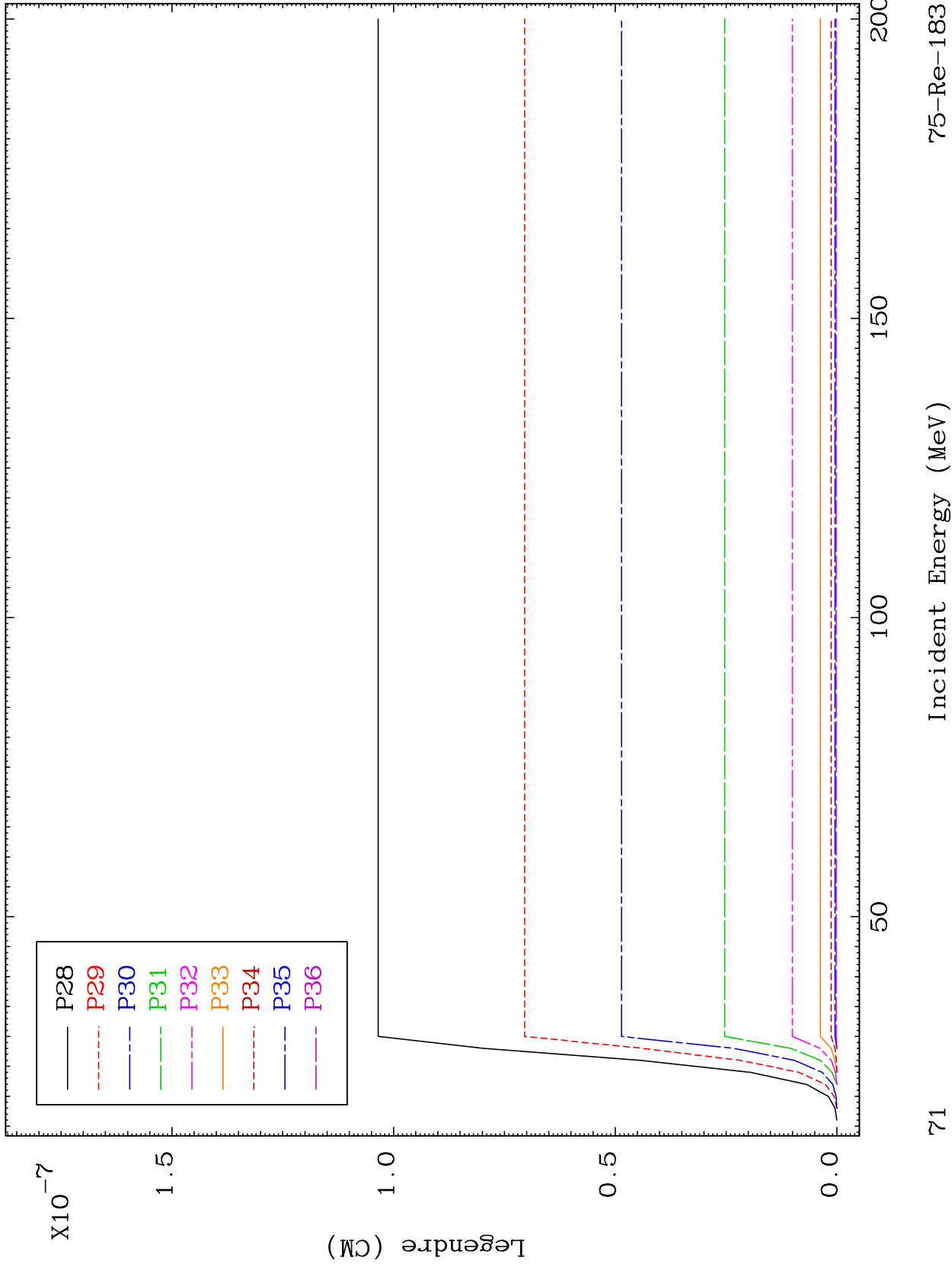
Incident Energy (MeV)

75-Re-183

MAT 7519

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

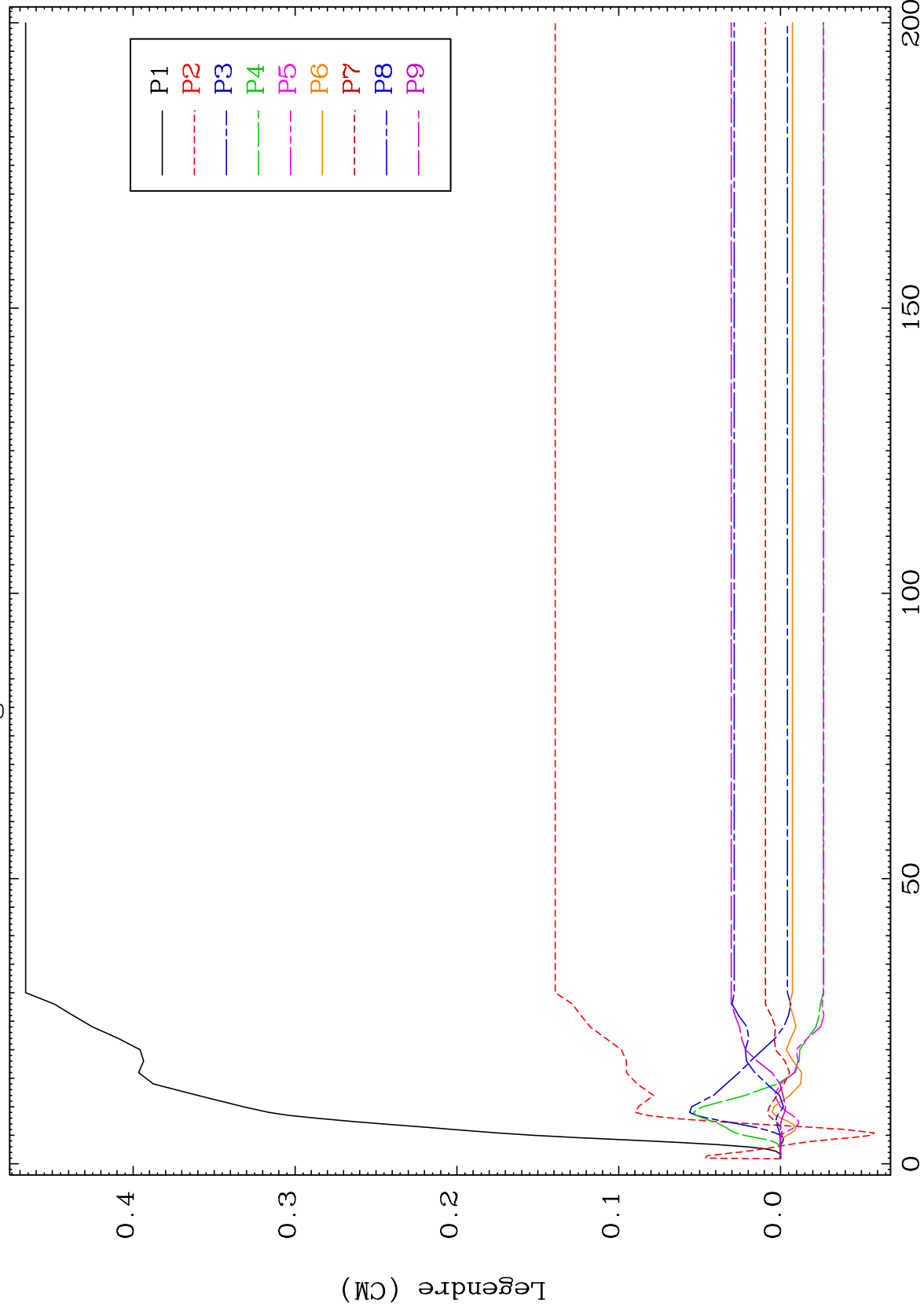
75-Re-183



MAT 7519

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

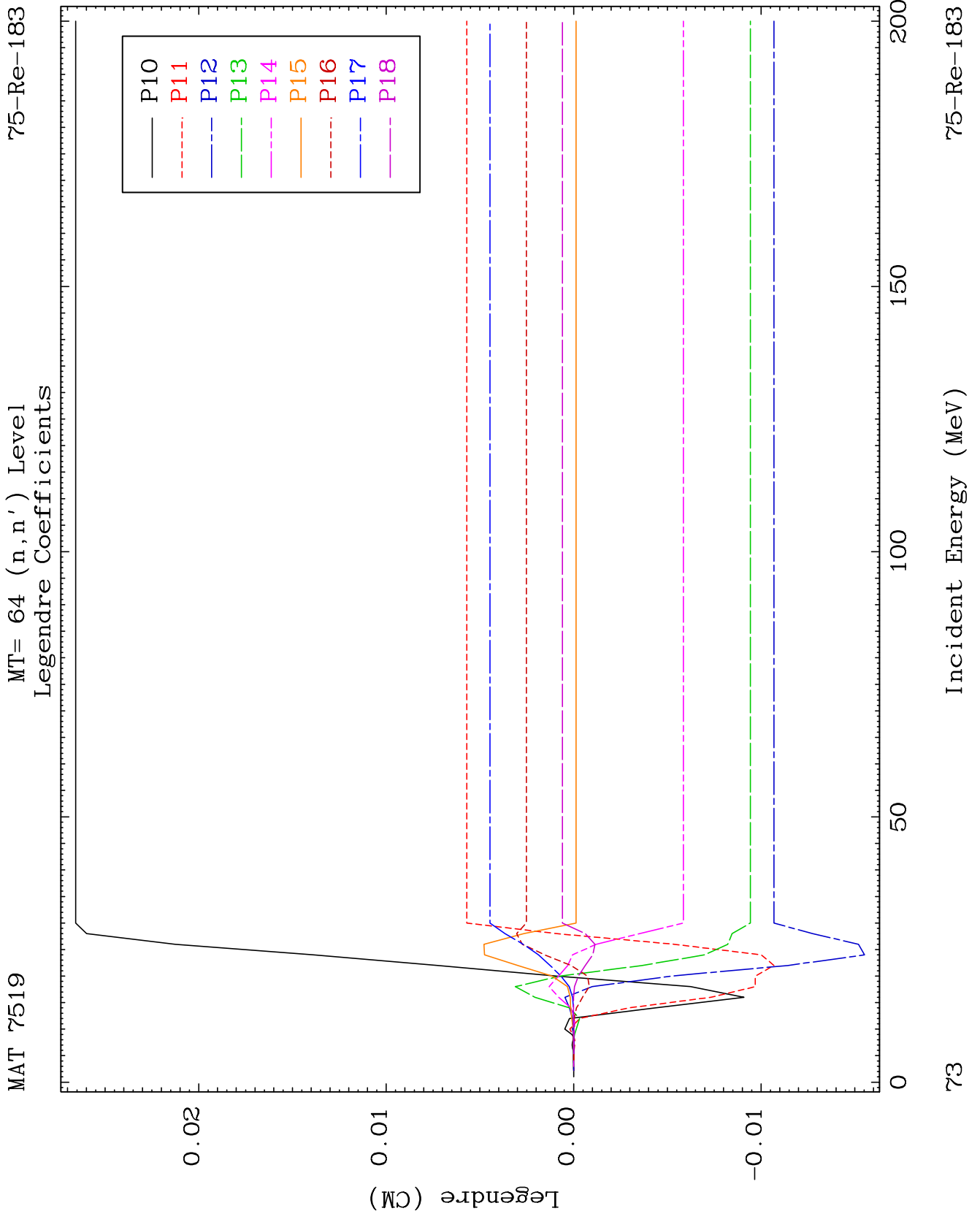
75-Re-183



72

Incident Energy (MeV)

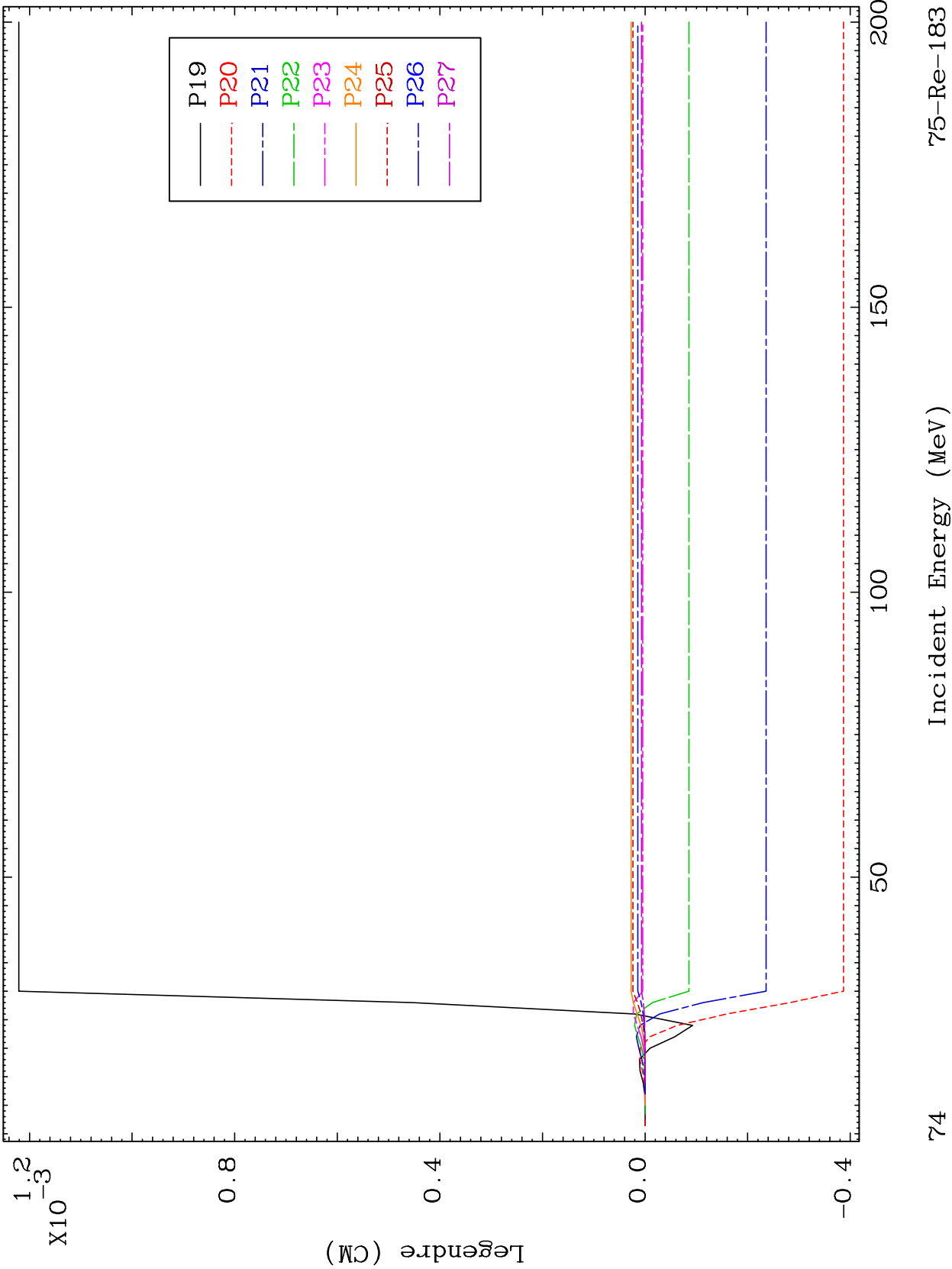
75-Re-183



MAT 7519

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

75-Re-183



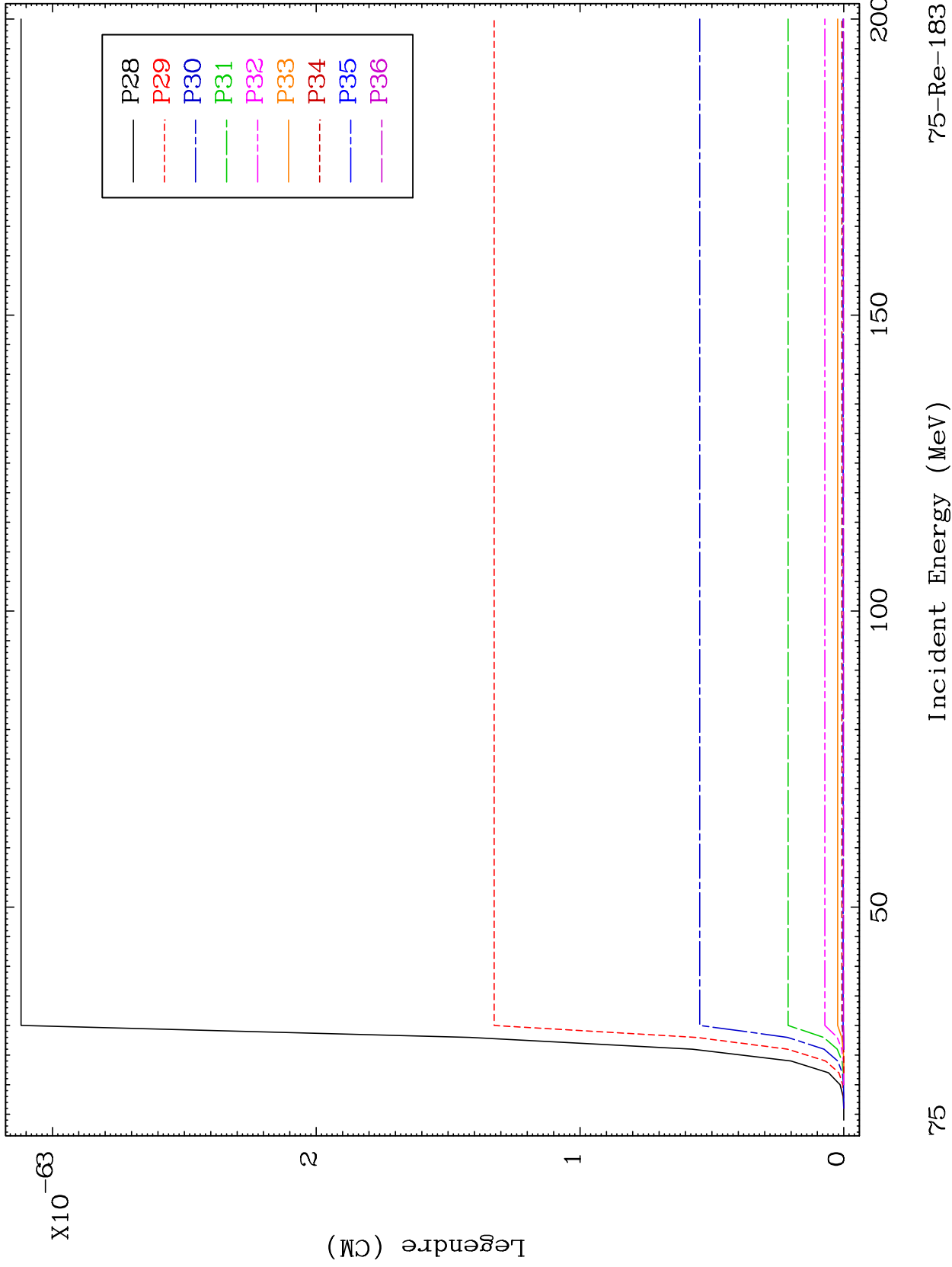
74

75-Re-183

MAT 7519

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

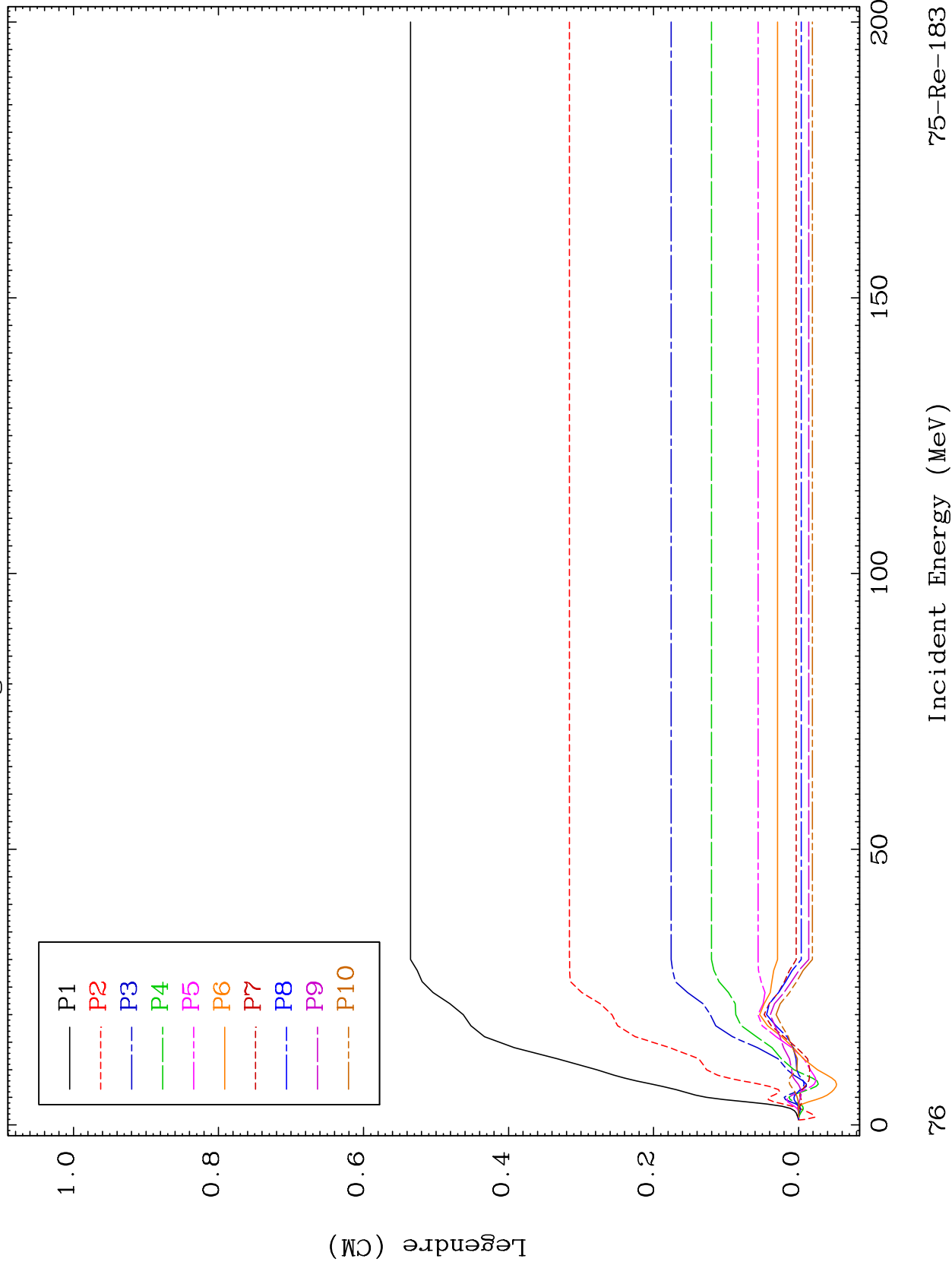
75-Re-183



MAT 7519

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

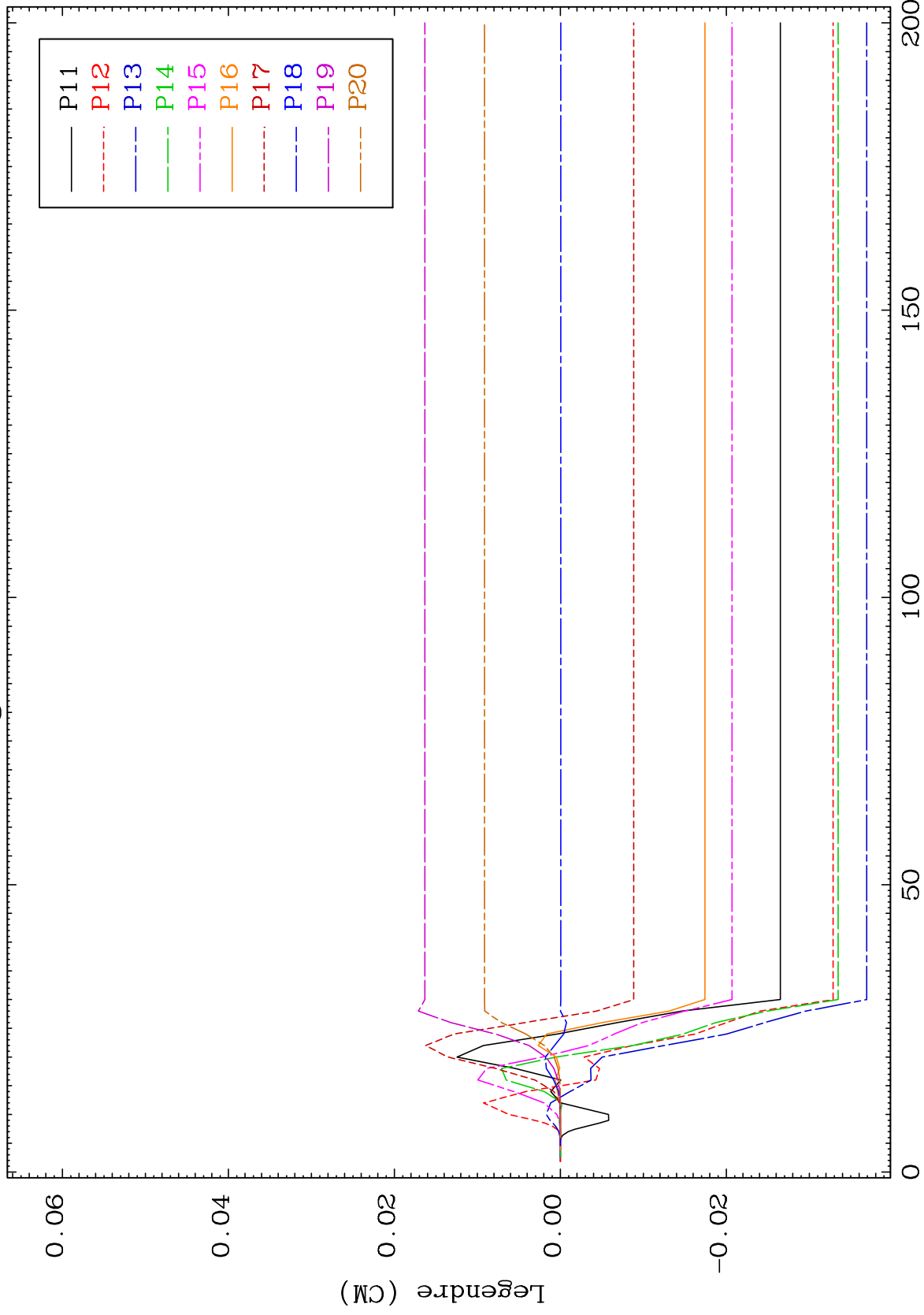
75-Re-183



MAT 7519

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

75-Re-183



77

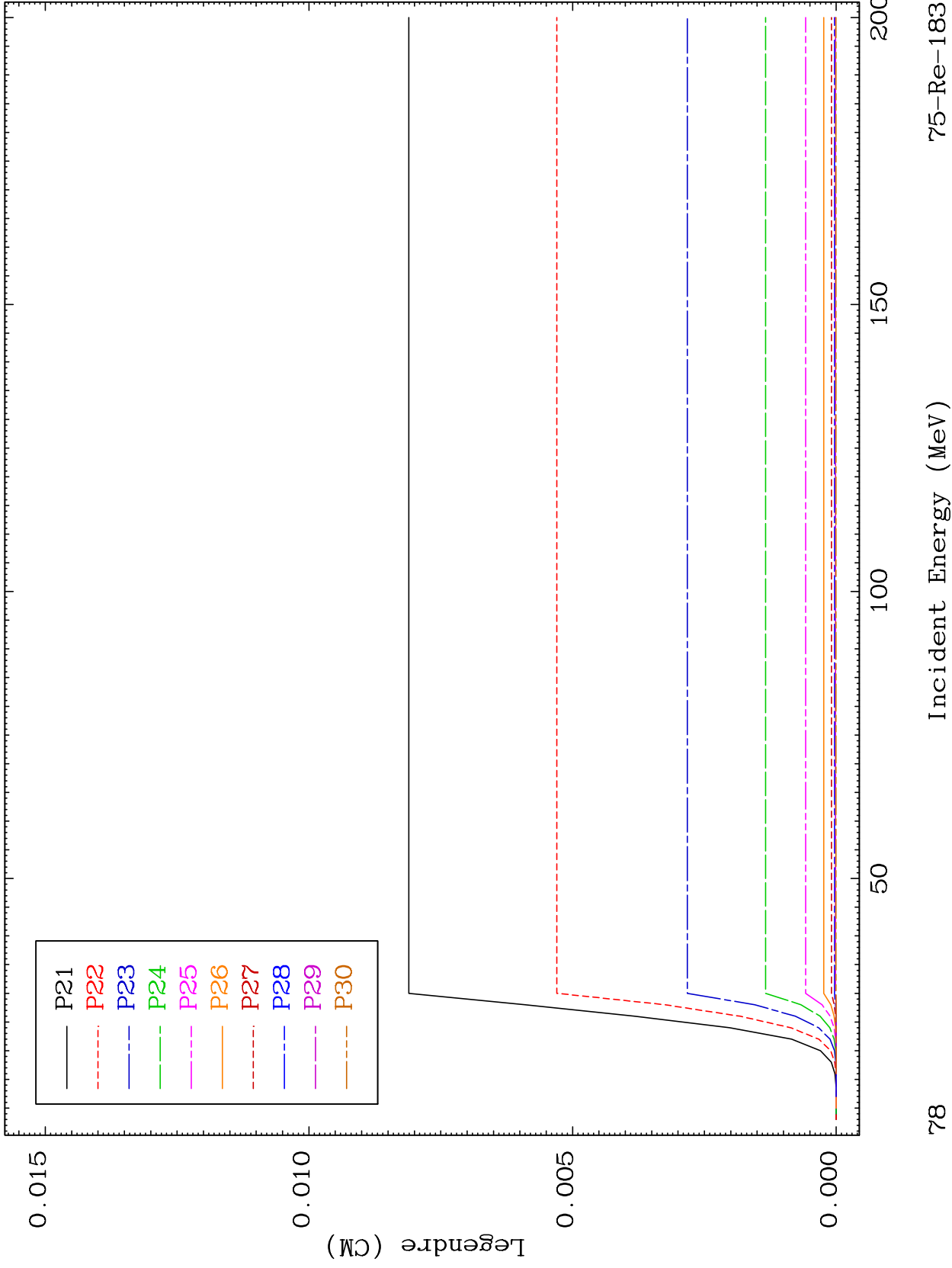
Incident Energy (MeV)

75-Re-183

MAT 7519

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

75-Re-183



78

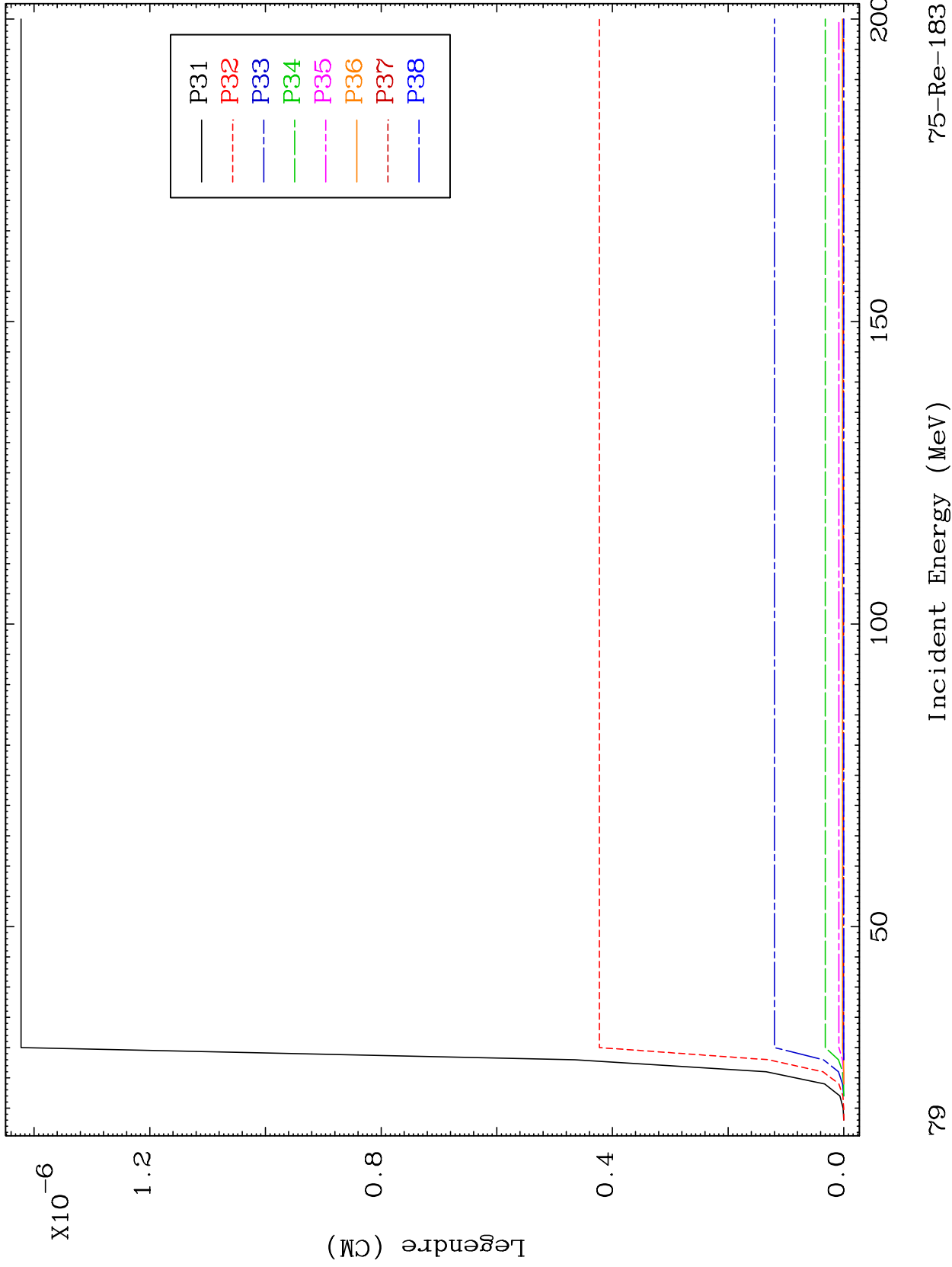
Incident Energy (MeV)

75-Re-183

MAT 7519

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

75-Re-183



79

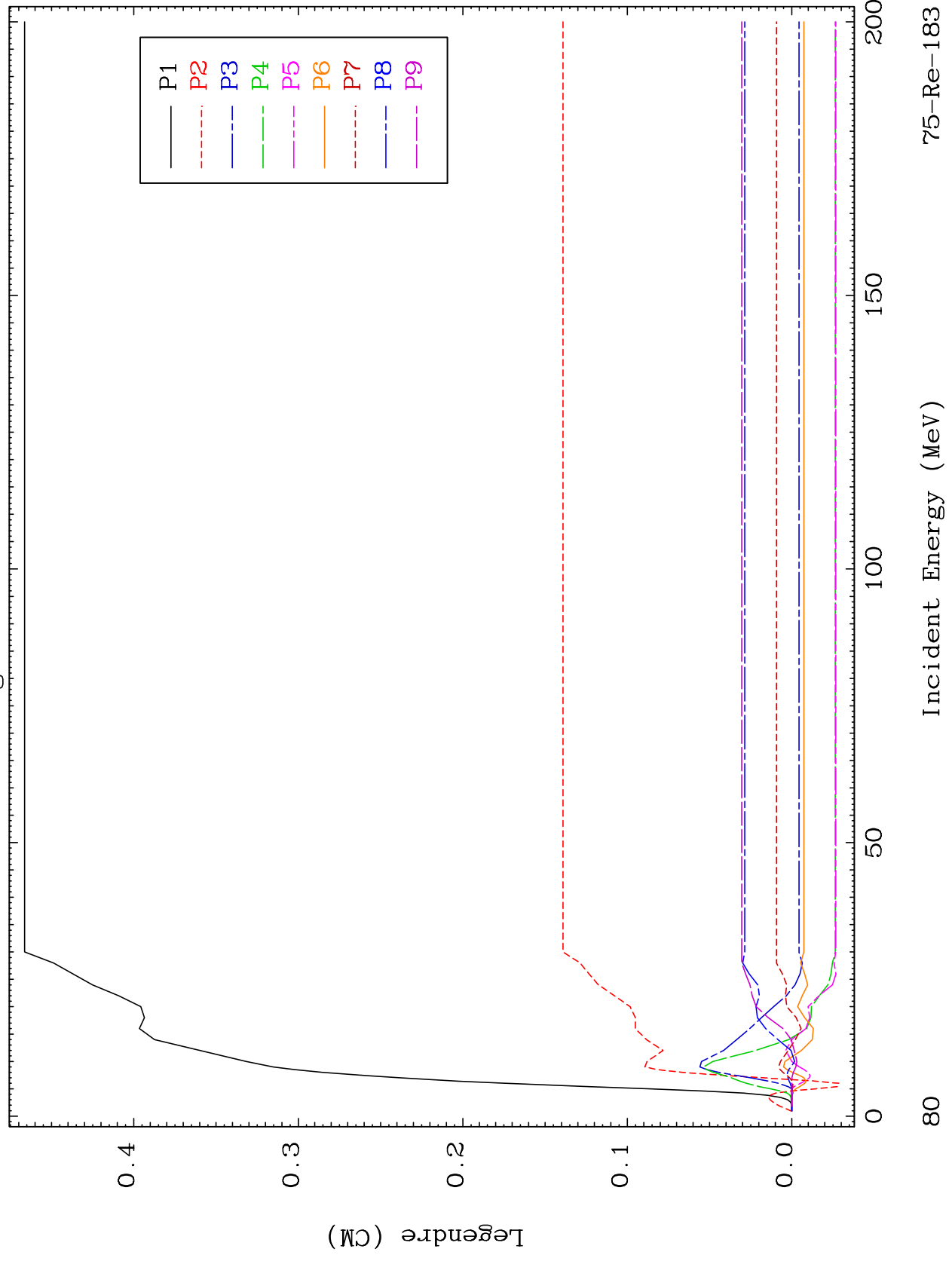
Incident Energy (MeV)

75-Re-183

MAT 7519

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

75-Re-183



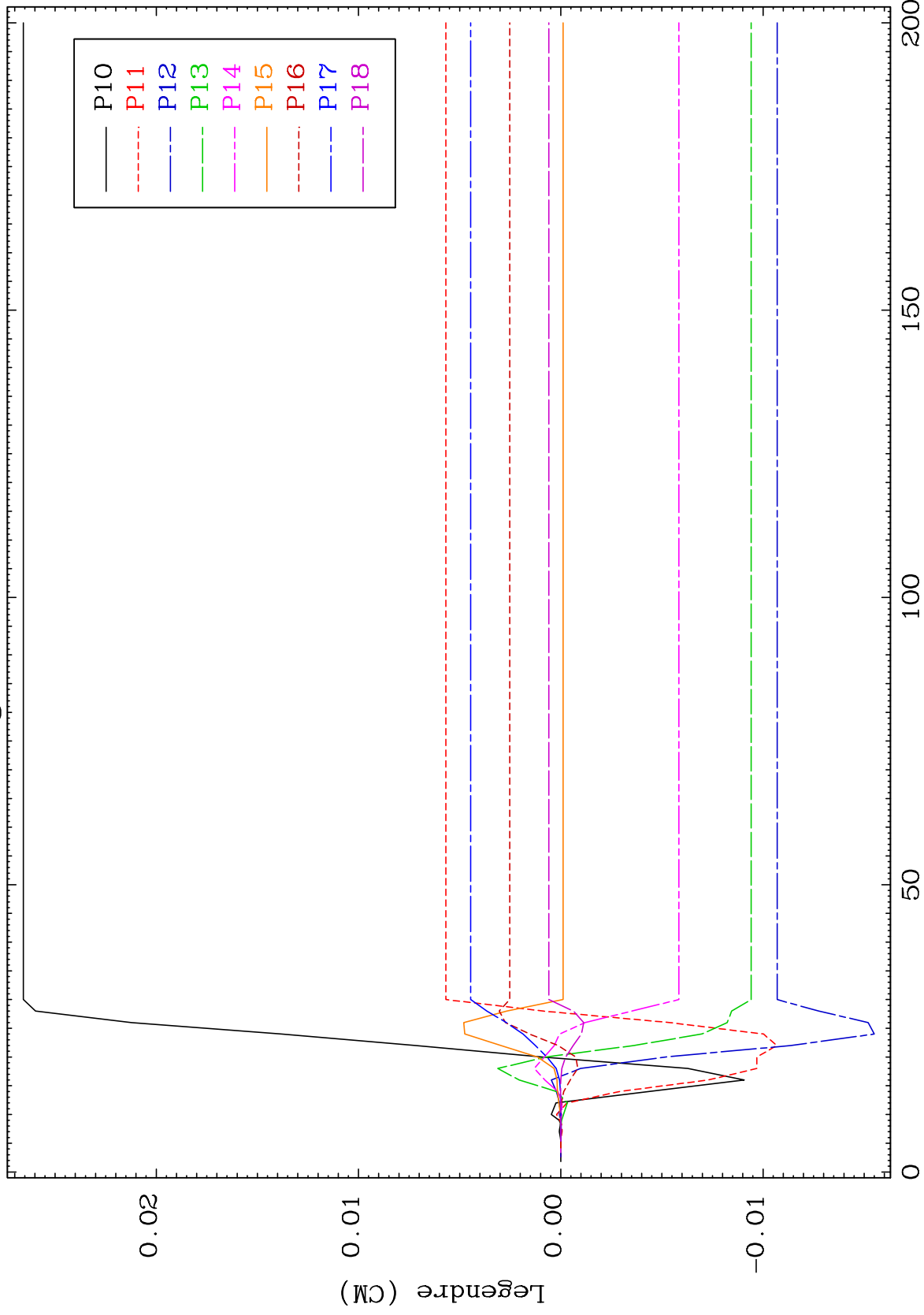
75-Re-183

Incident Energy (MeV)

MAT 7519

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

75-Re-183



81

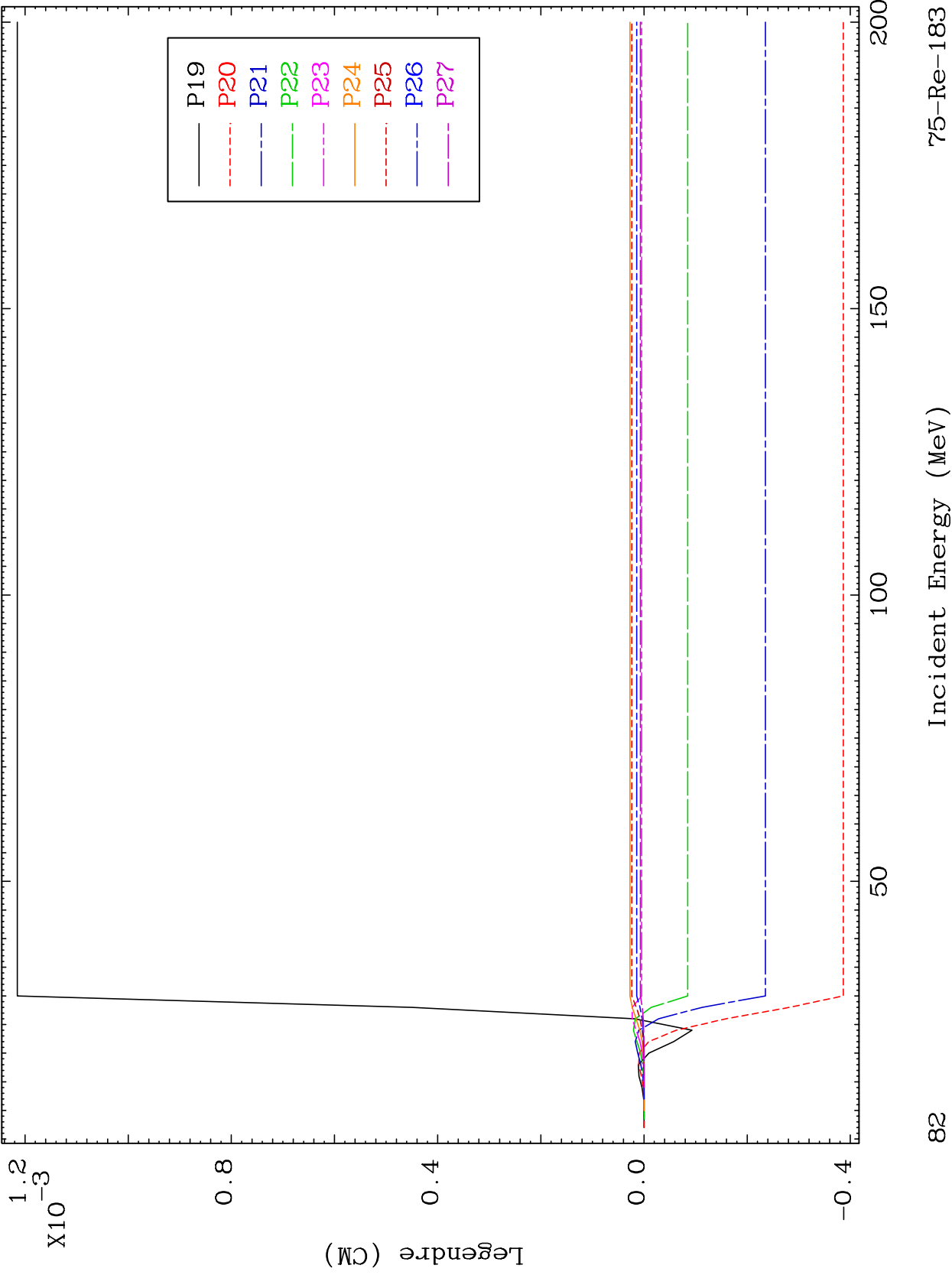
Incident Energy (MeV)

75-Re-183

MAT 7519

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

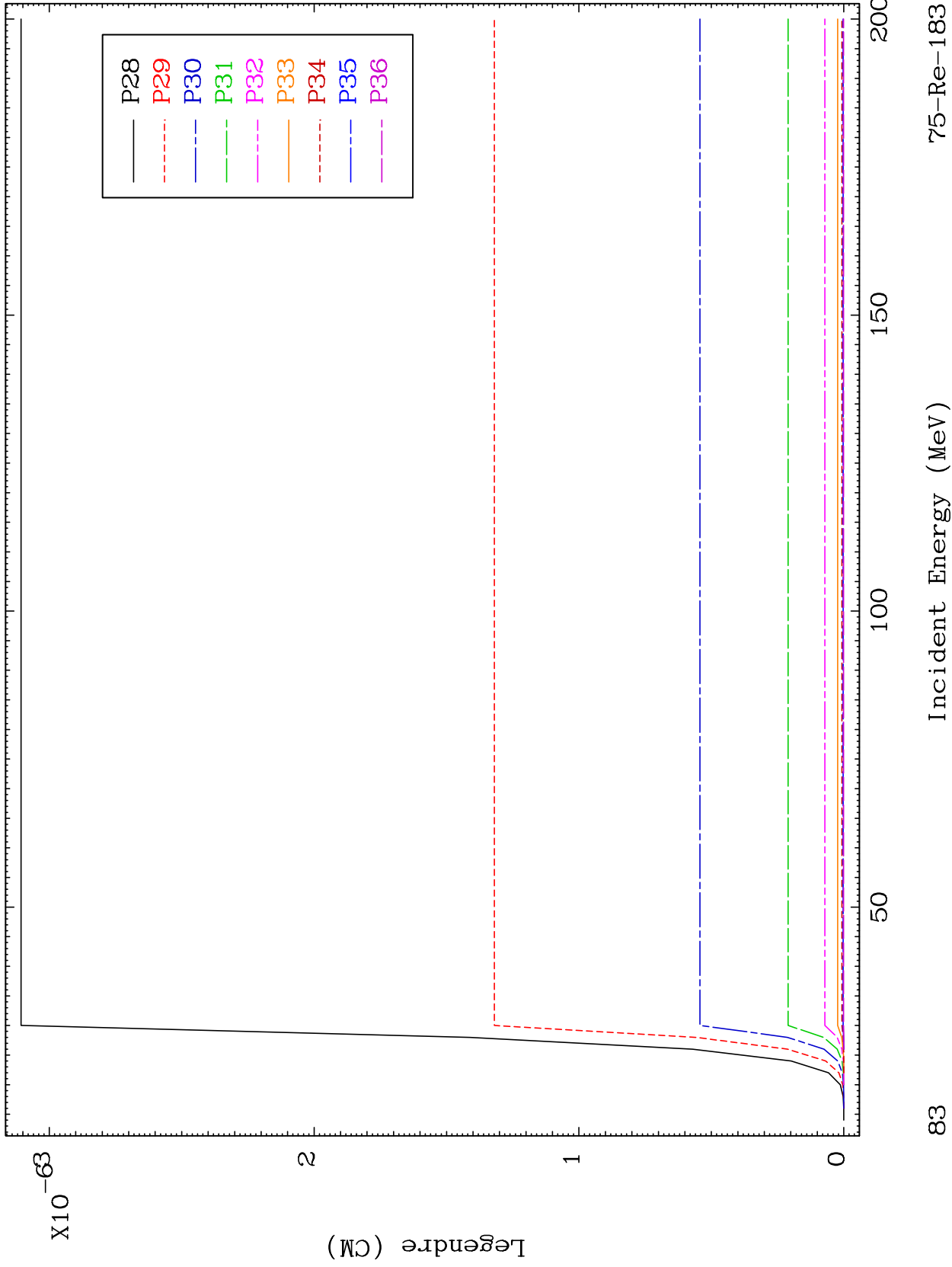
75-Re-183

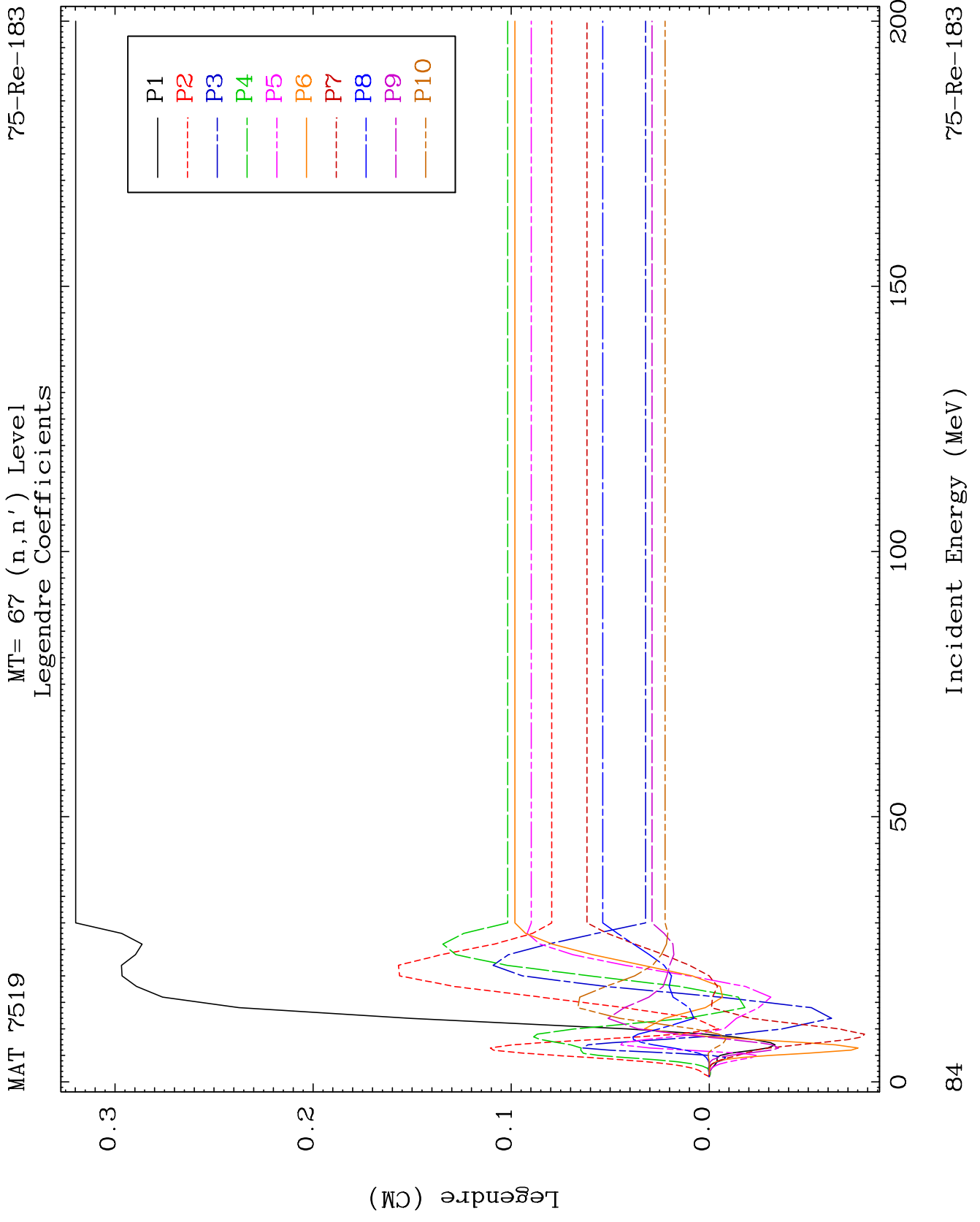


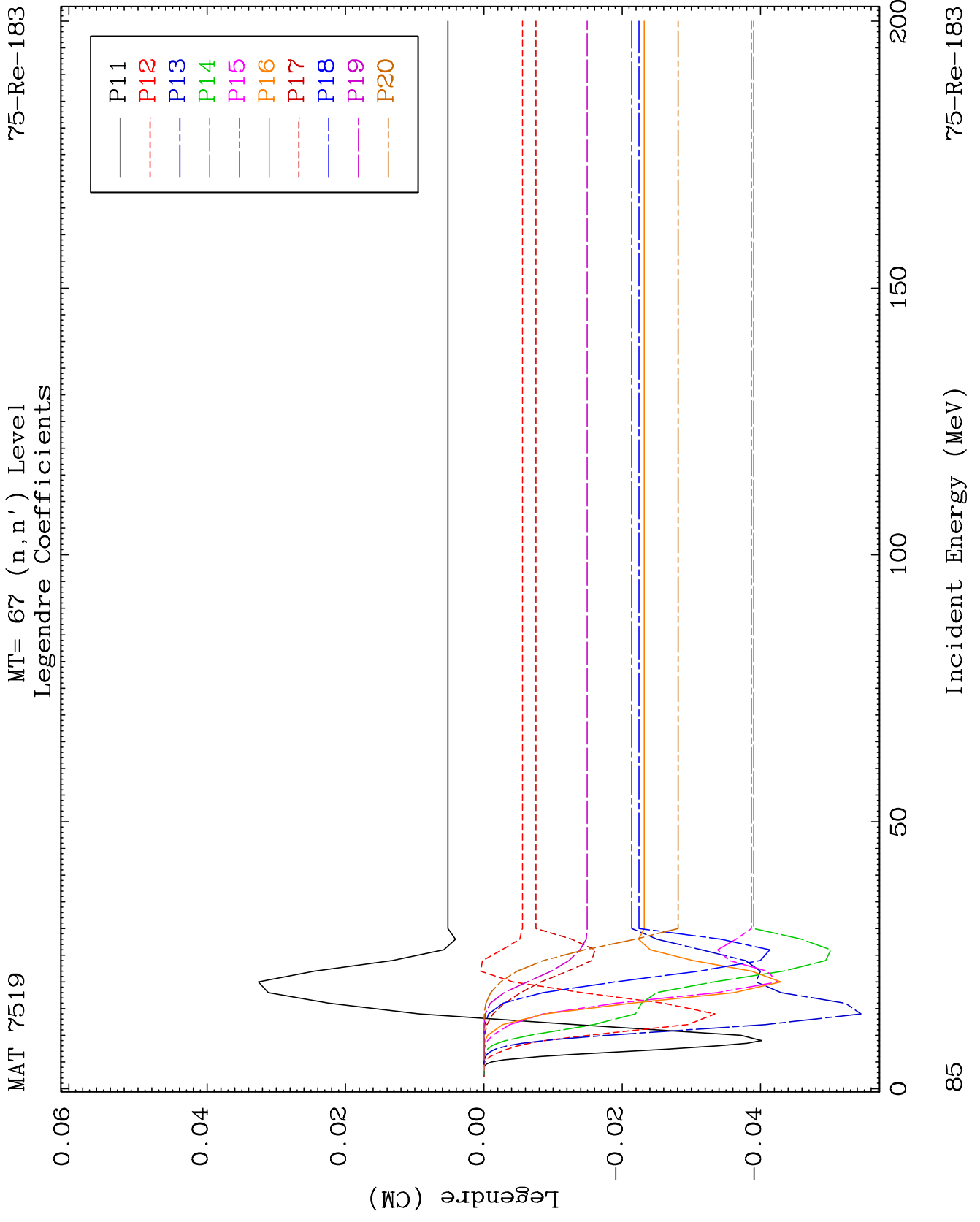
MAT 7519

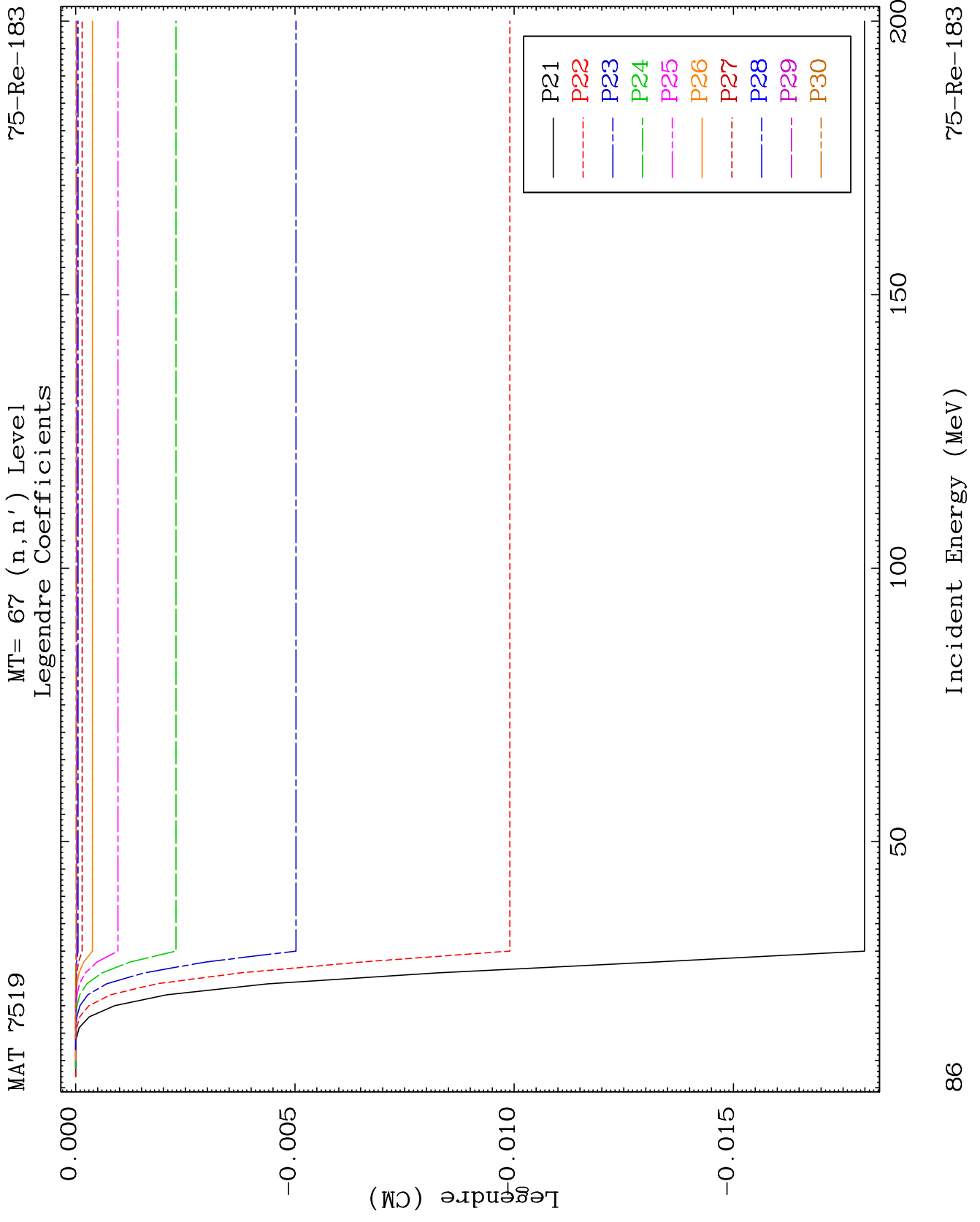
MT= 66 (n,n') Level
Legendre Coefficients

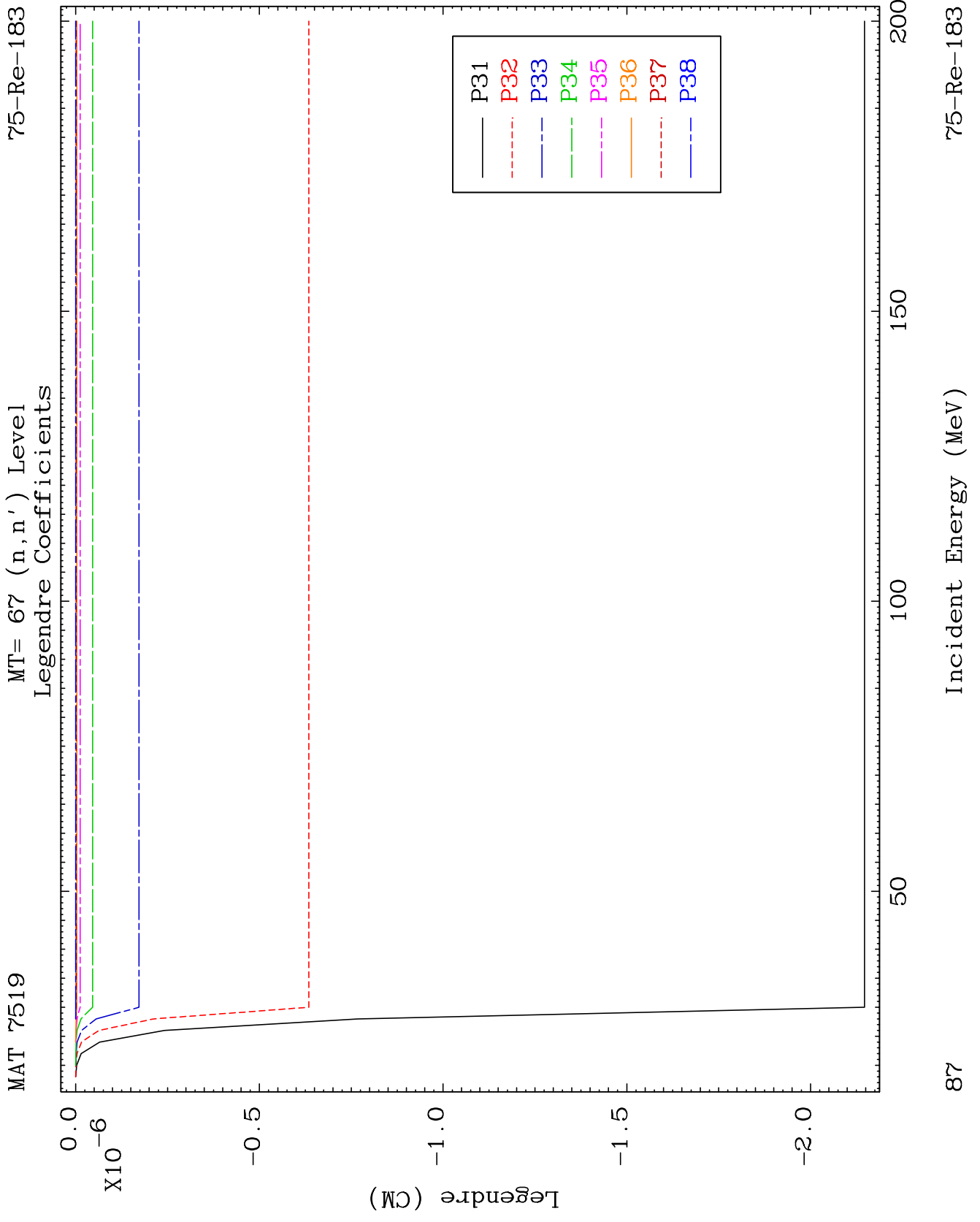
75-Re-183







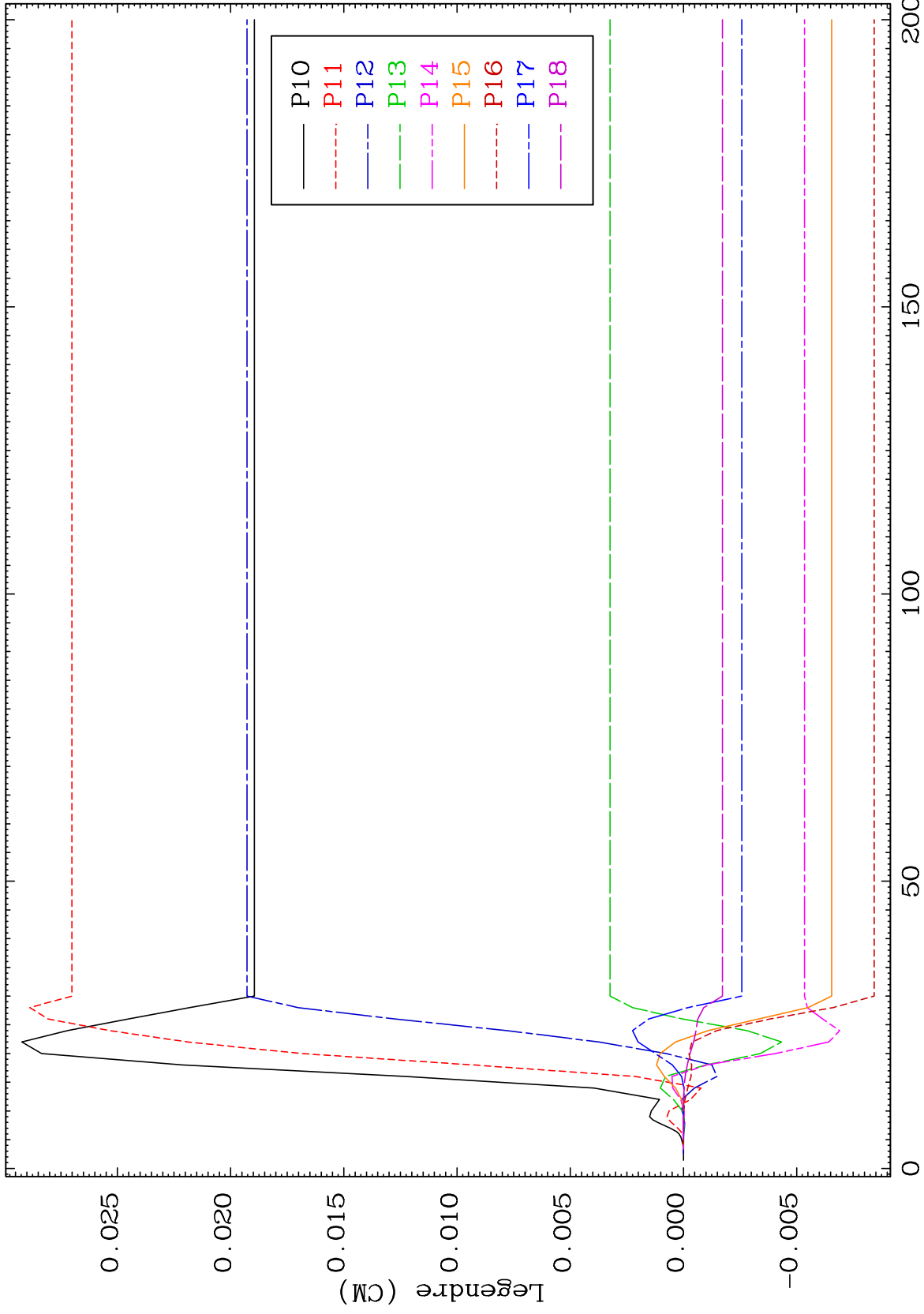




MAT 7519

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

75-Re-183



89

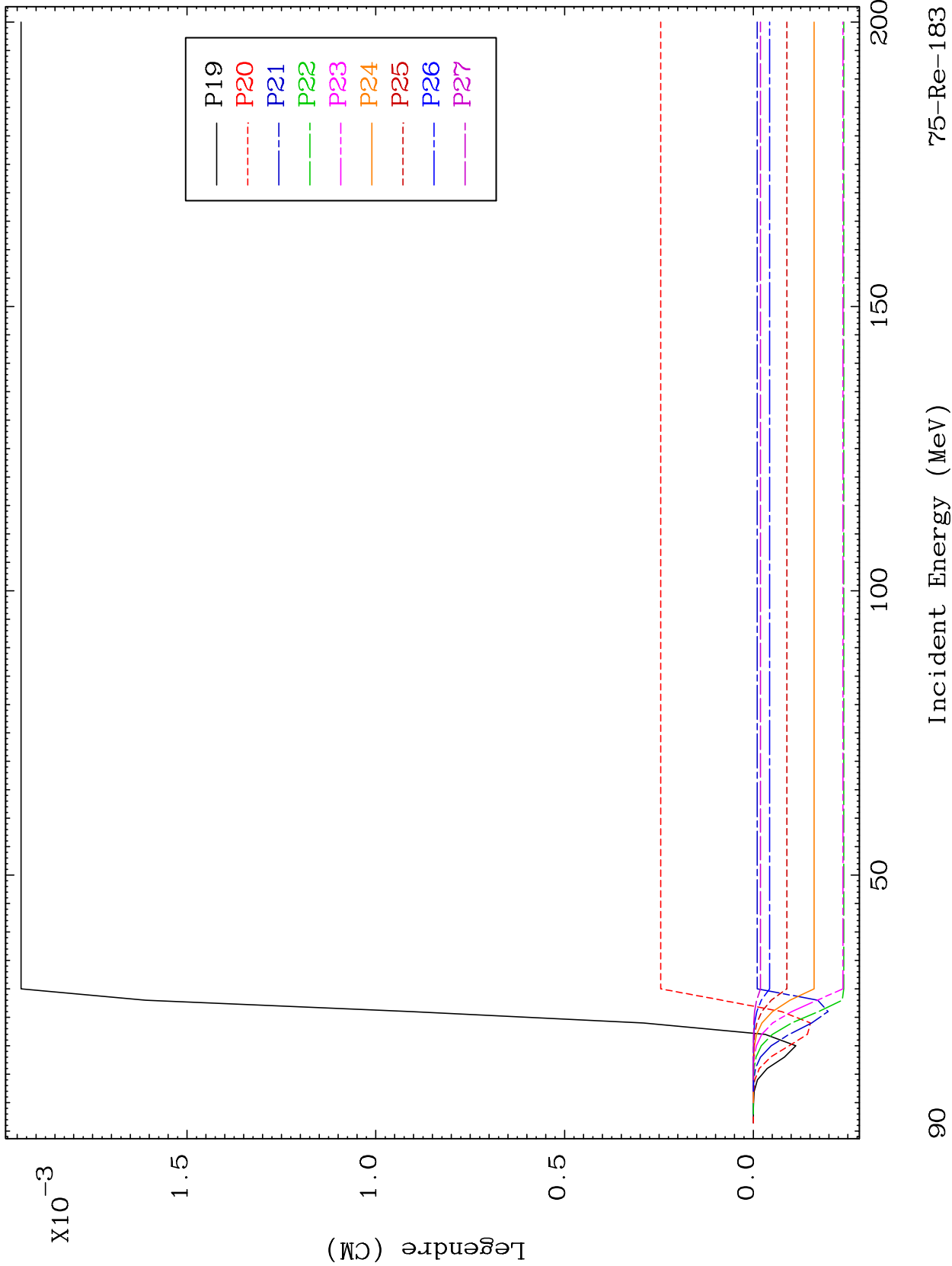
Incident Energy (MeV)

75-Re-183

MAT 7519

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

75-Re-183



90

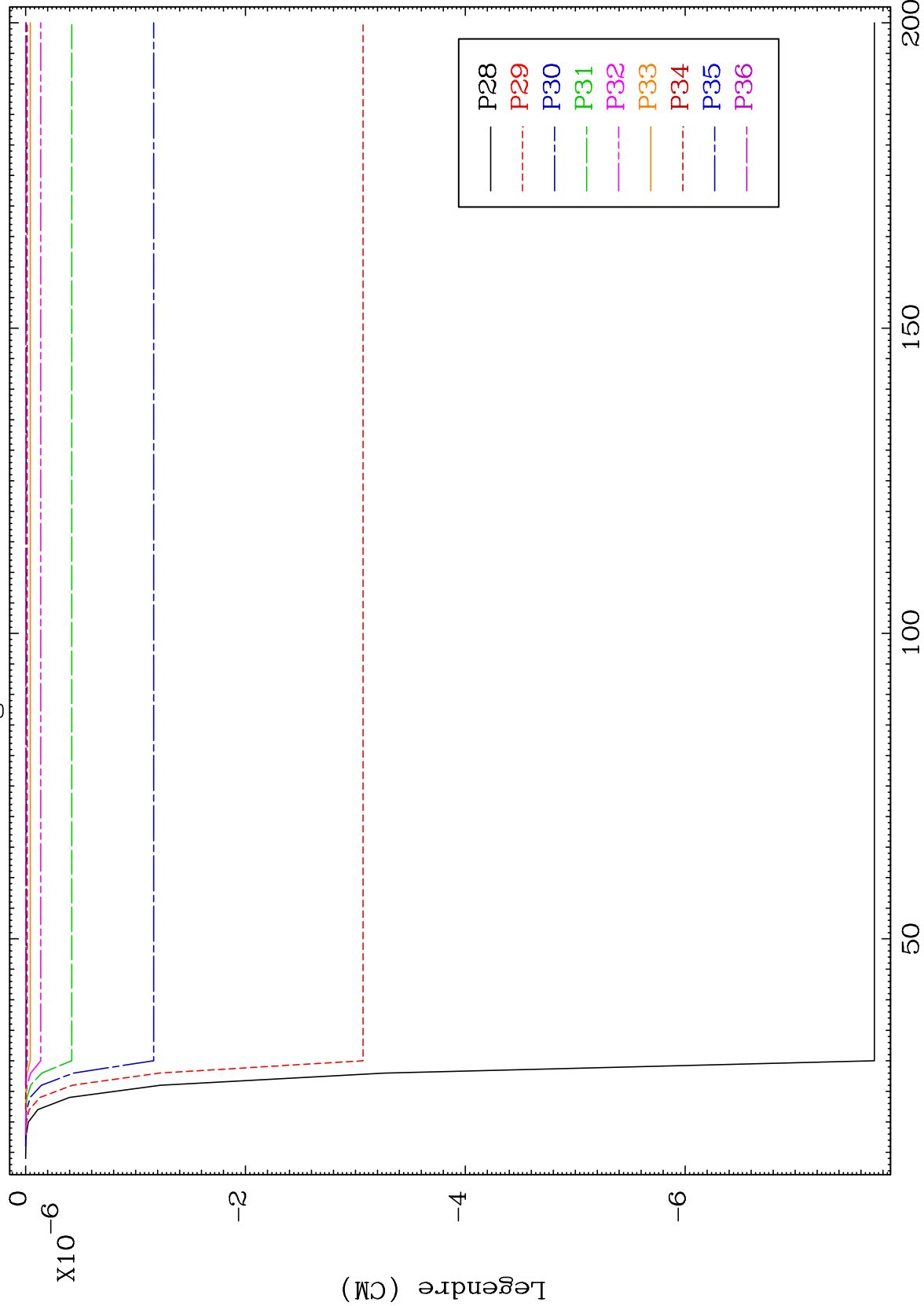
Incident Energy (MeV)

75-Re-183

MAT 7519

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

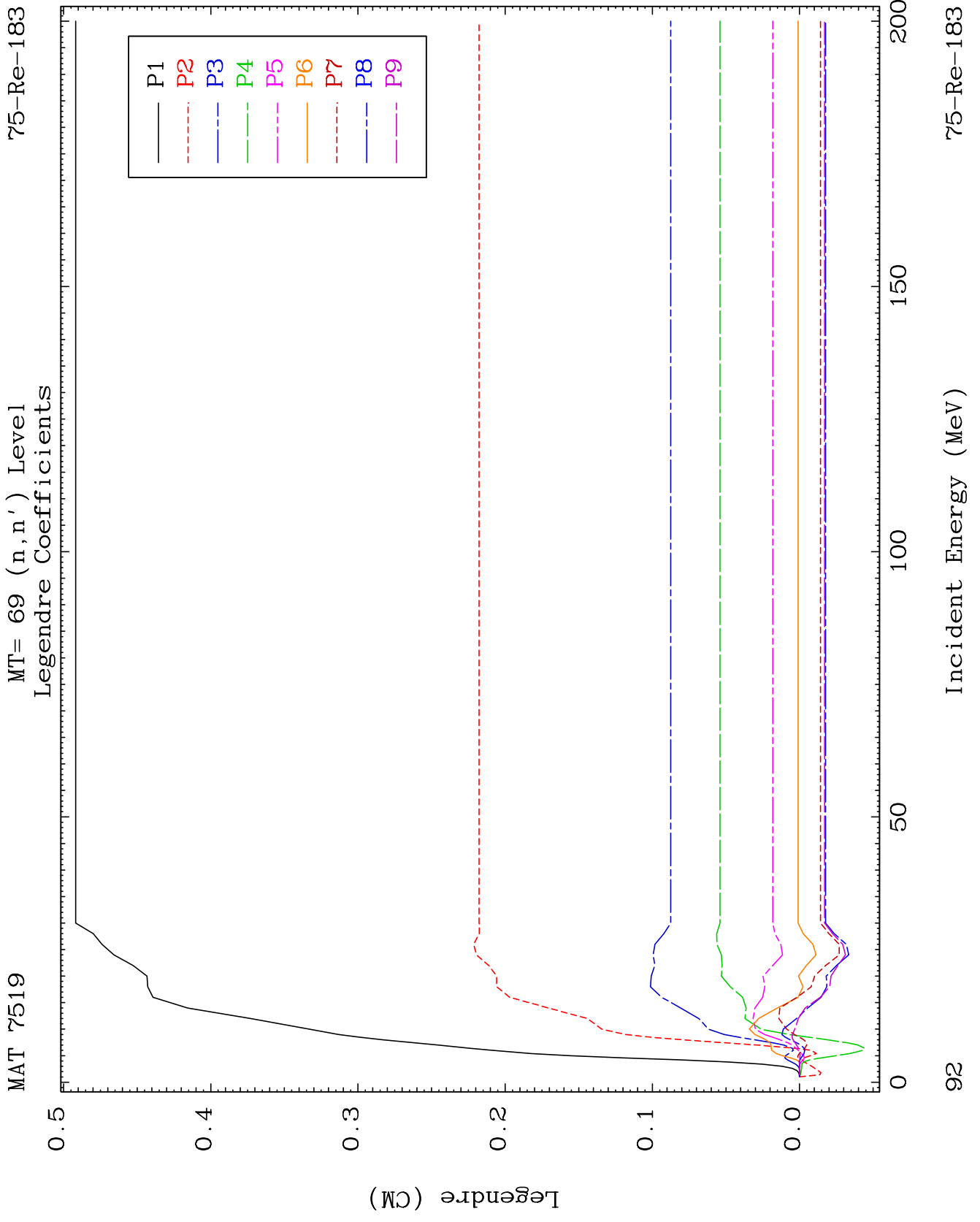
75-Re-183



75-Re-183

Incident Energy (MeV)

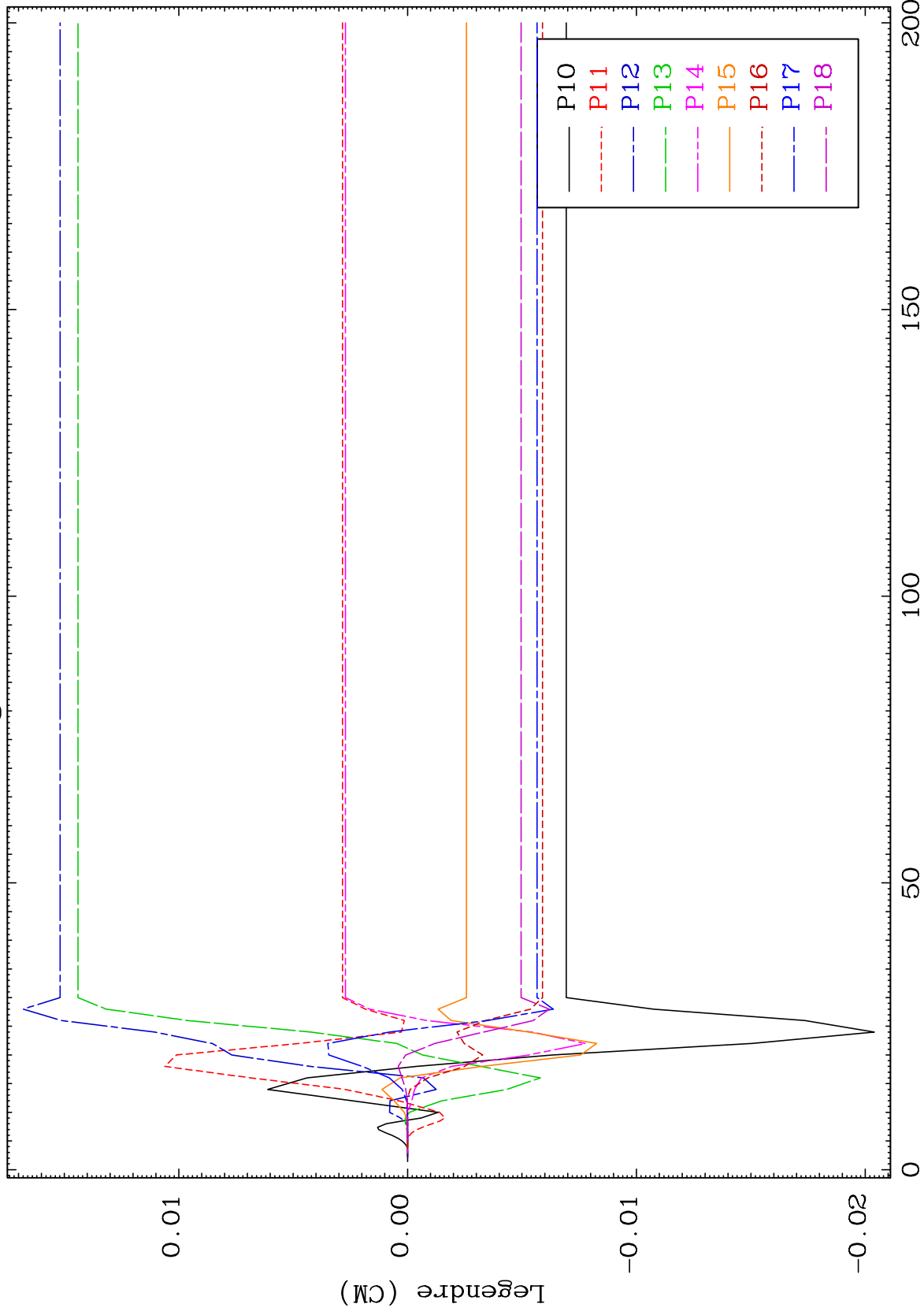
91



MAT 7519

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

75-Re-183



93

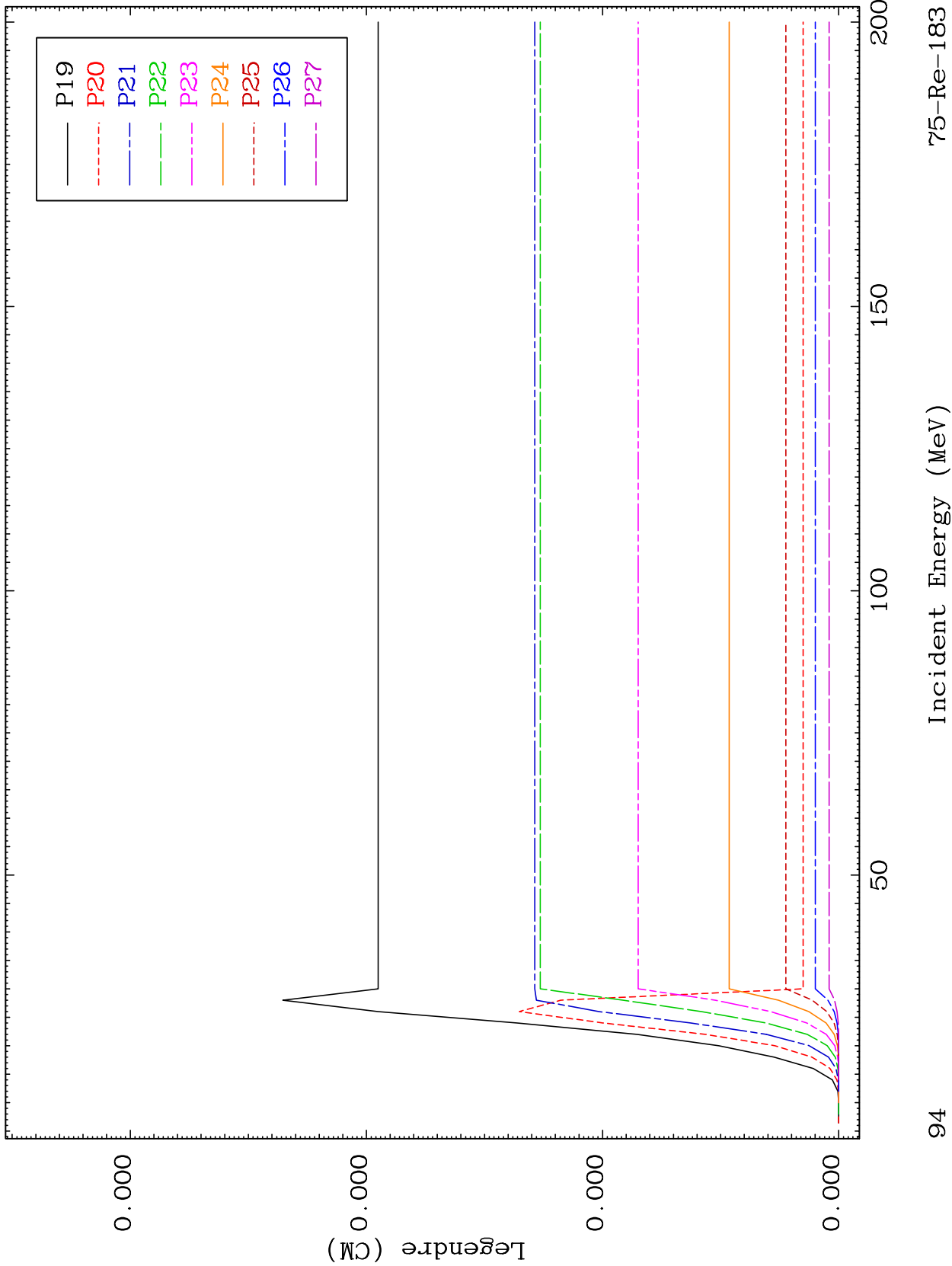
Incident Energy (MeV)

75-Re-183

MAT 7519

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

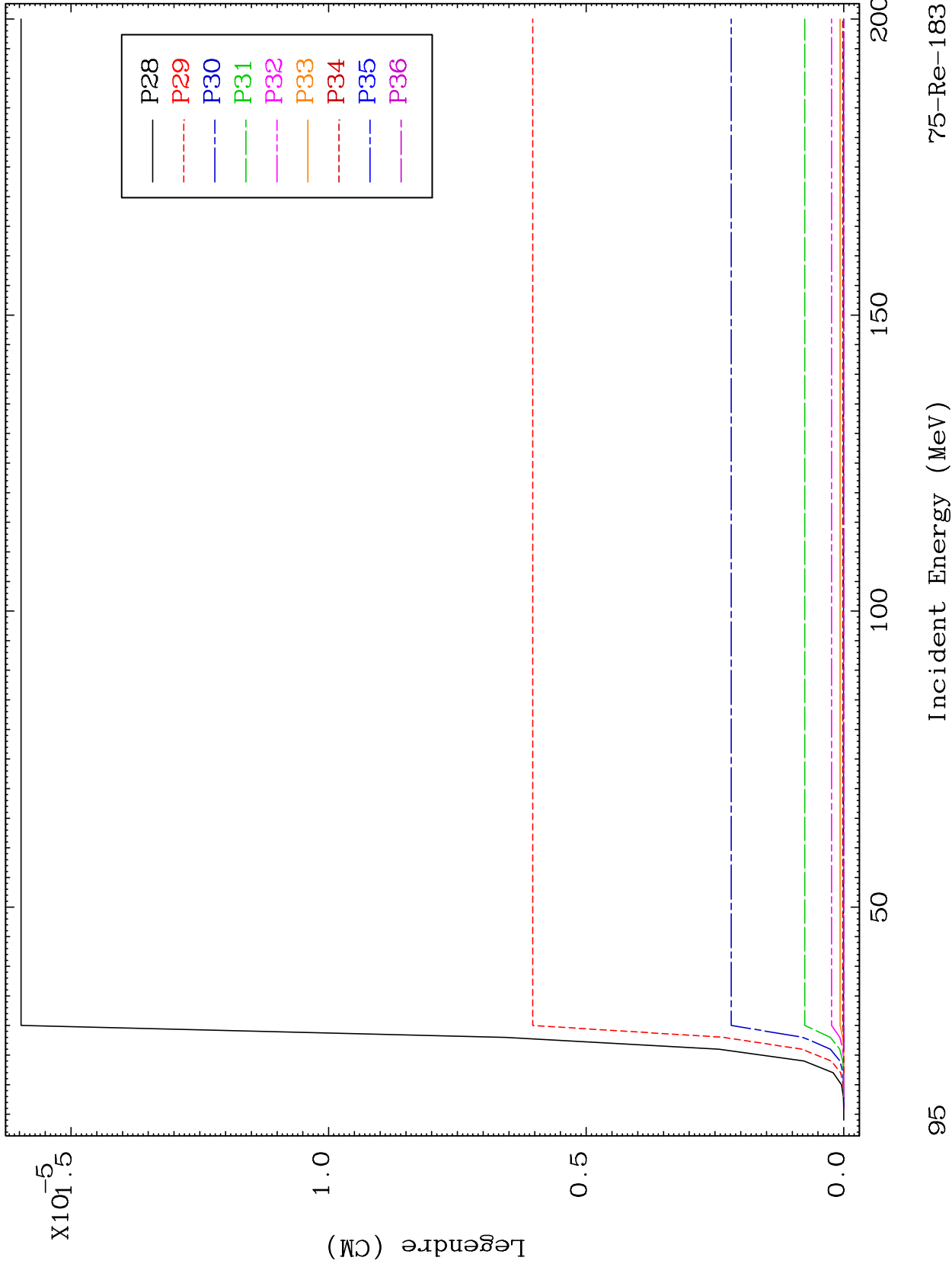
75-Re-183



MAT 7519

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

75-Re-183



95

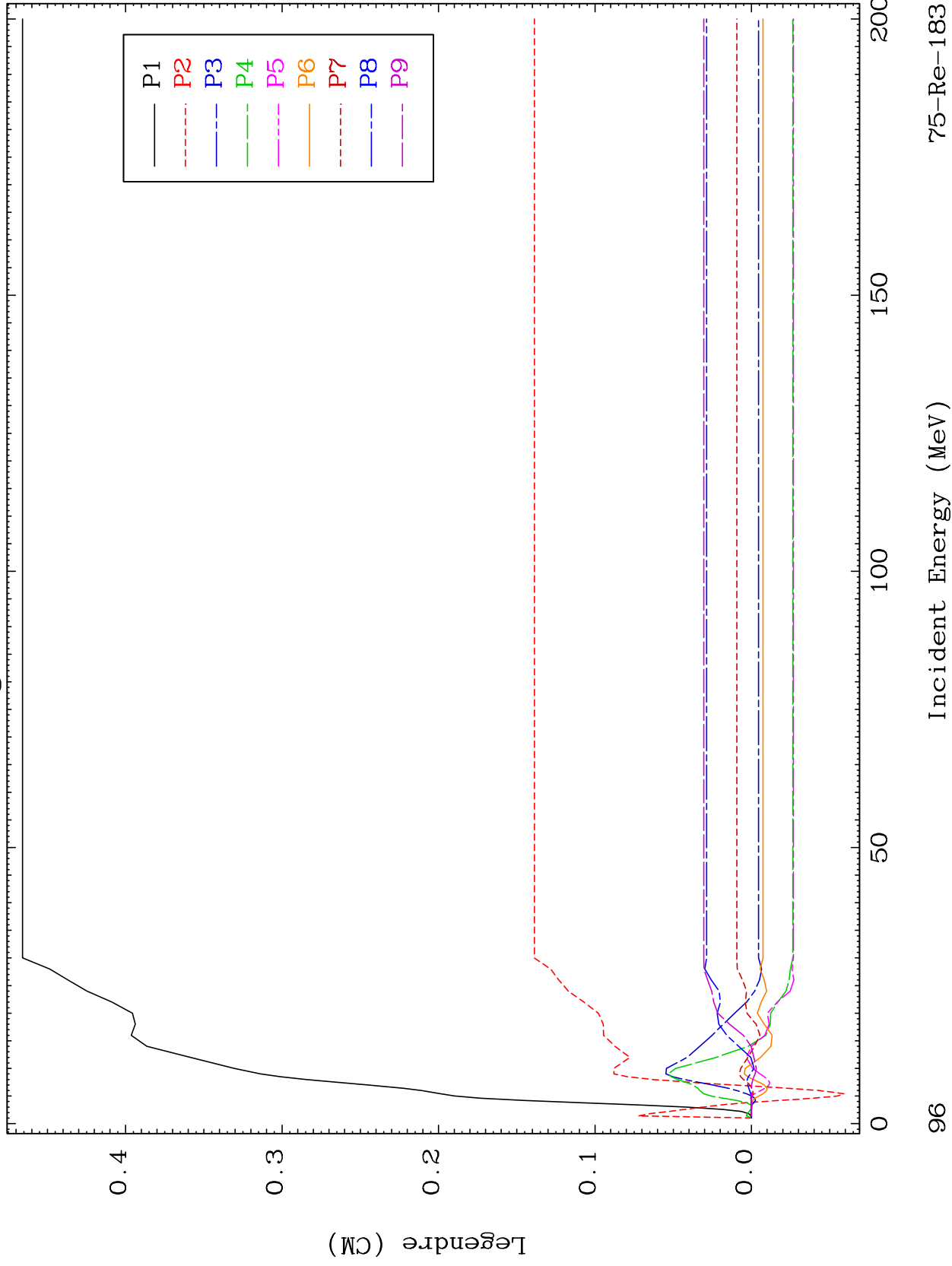
Incident Energy (MeV)

75-Re-183

MAT 7519

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

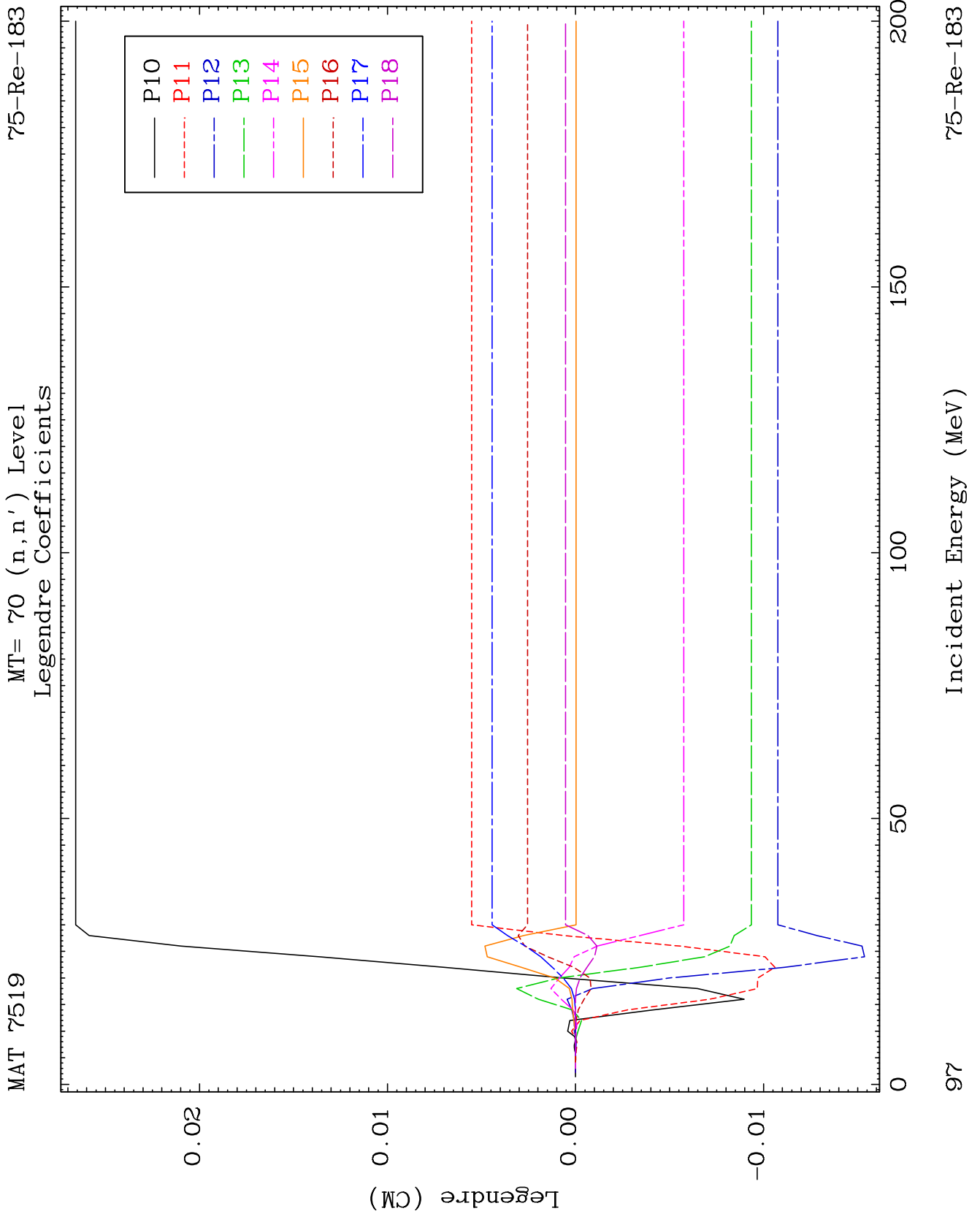
75-Re-183

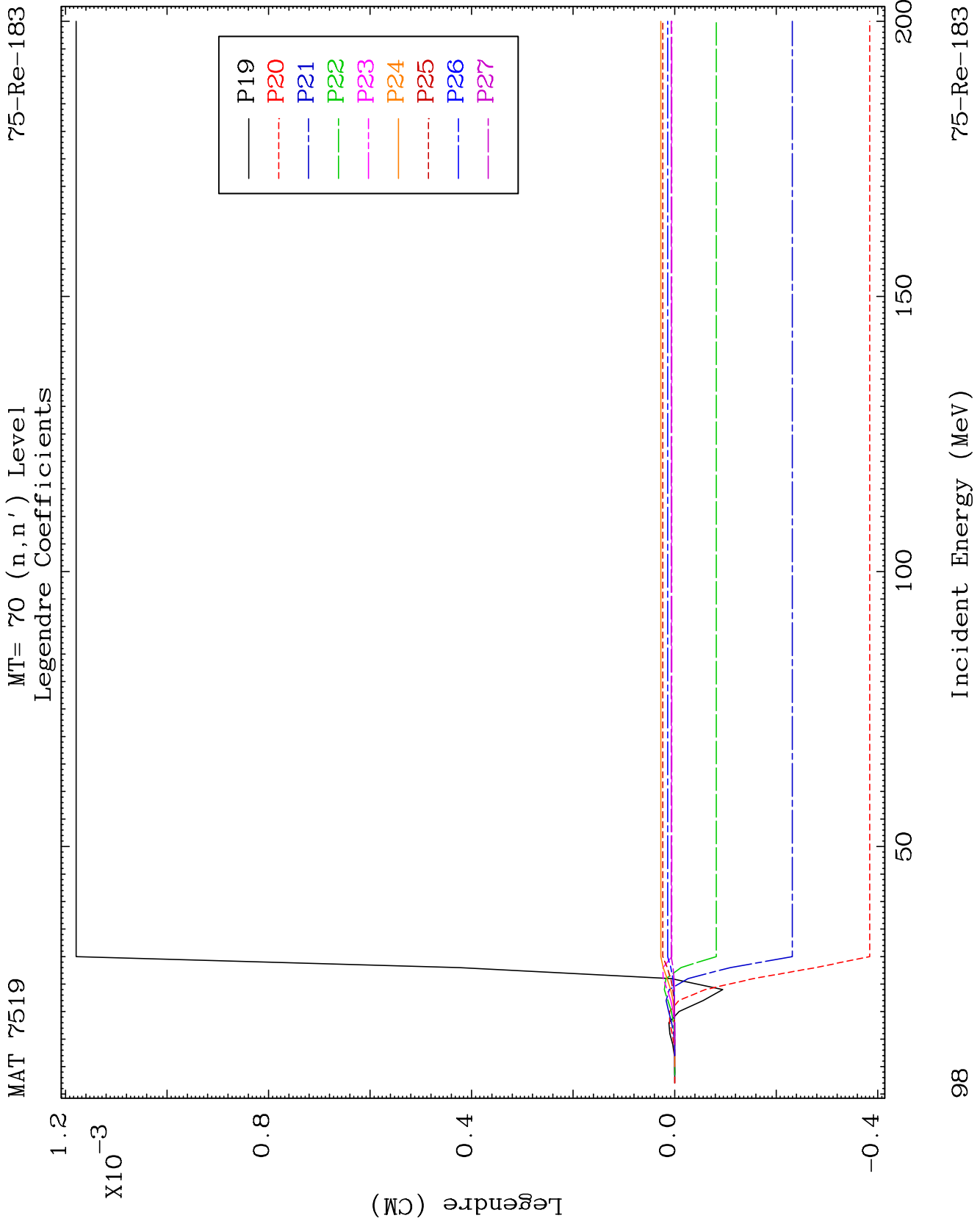


75-Re-183

Incident Energy (MeV)

96

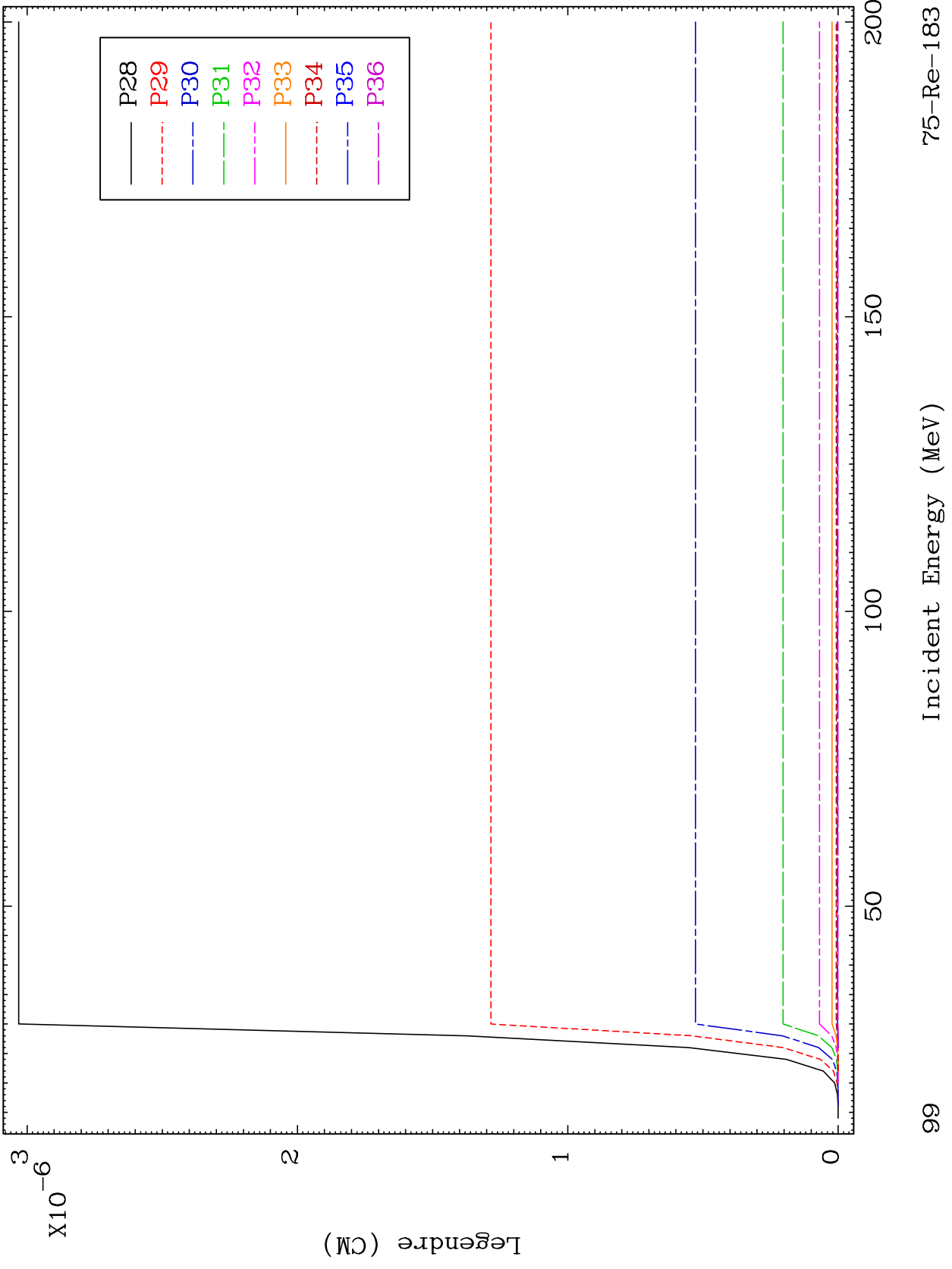




MAT 7519

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

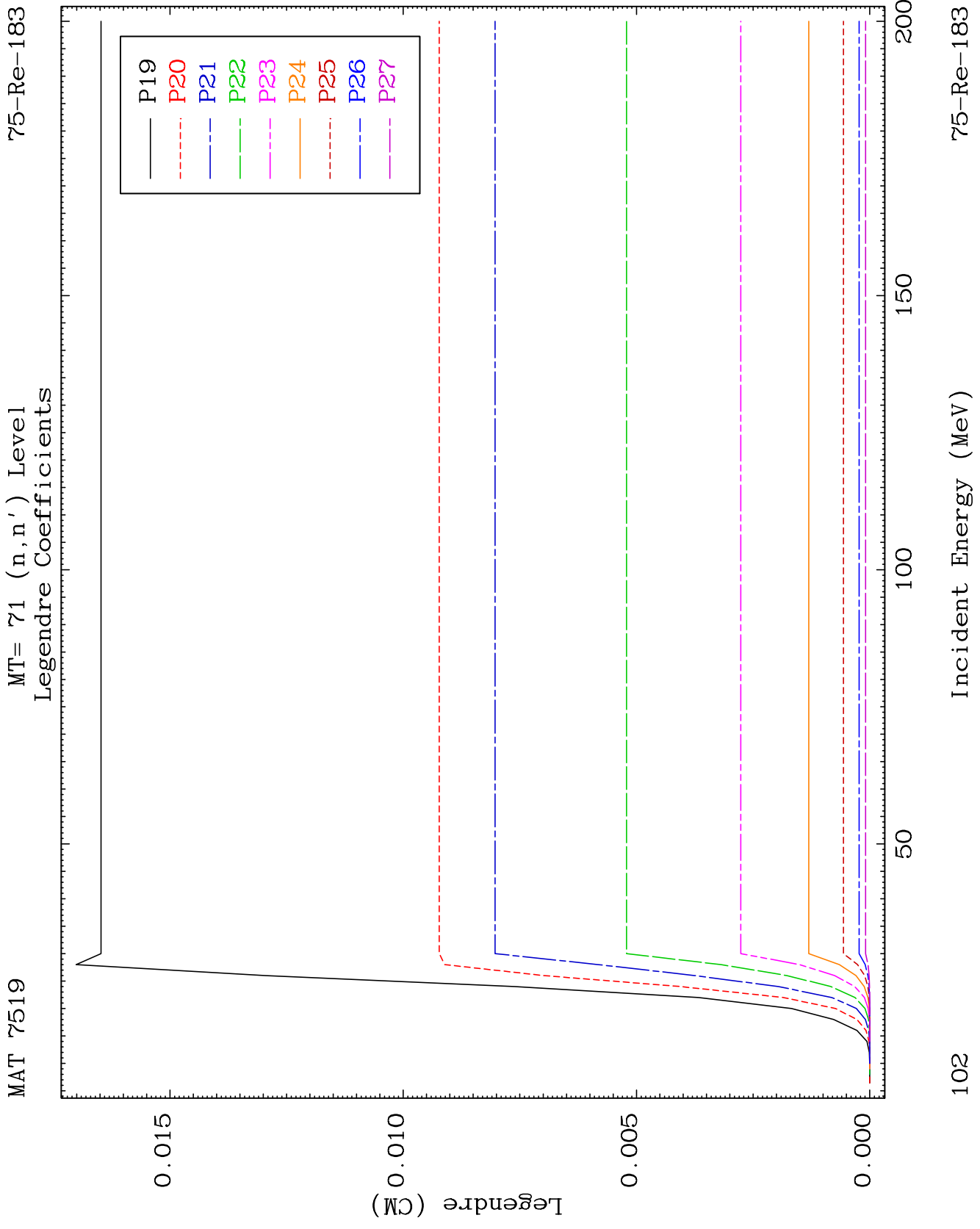
75-Re-183



75-Re-183

Incident Energy (MeV)

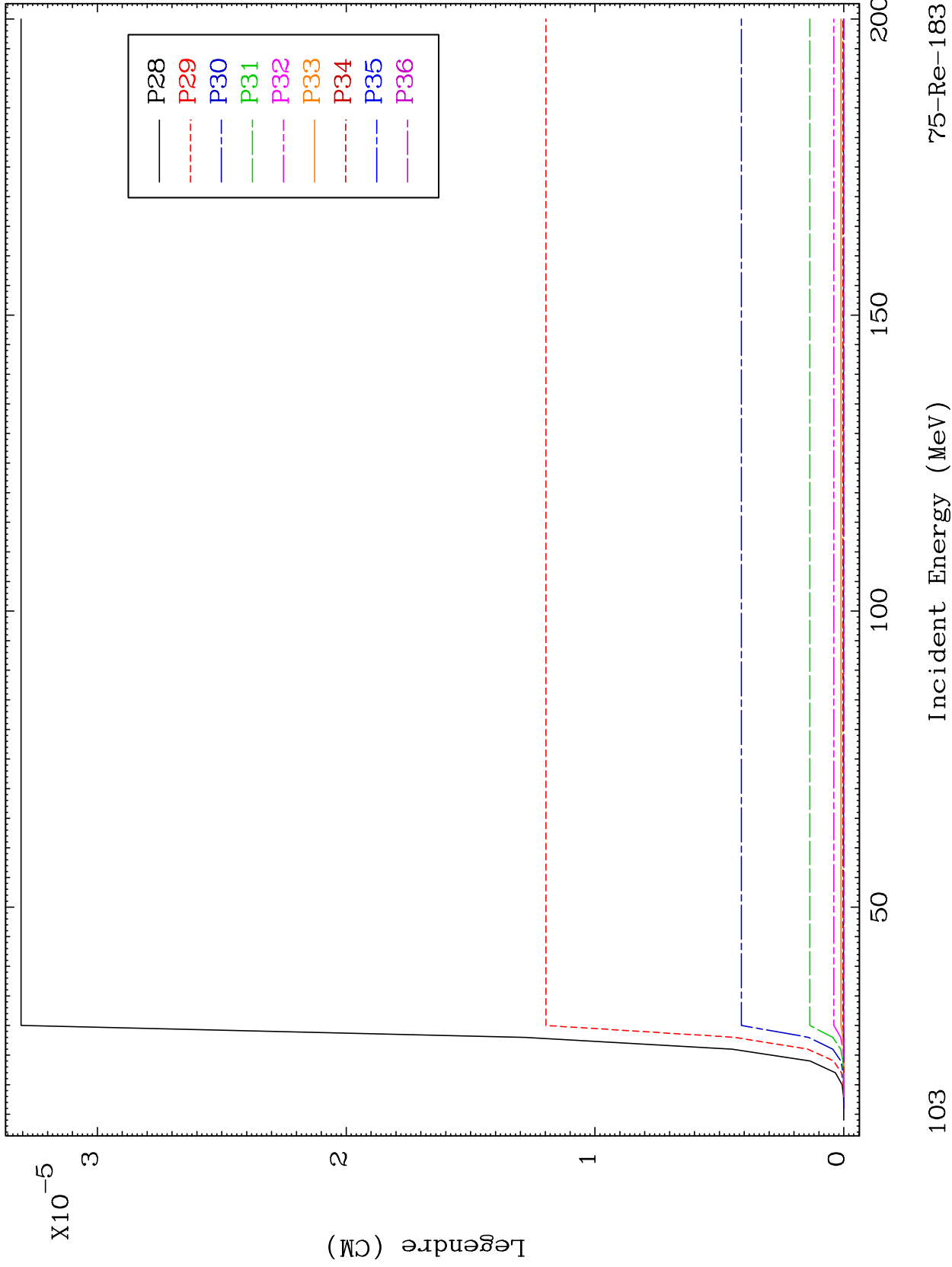
99



MAT 7519

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

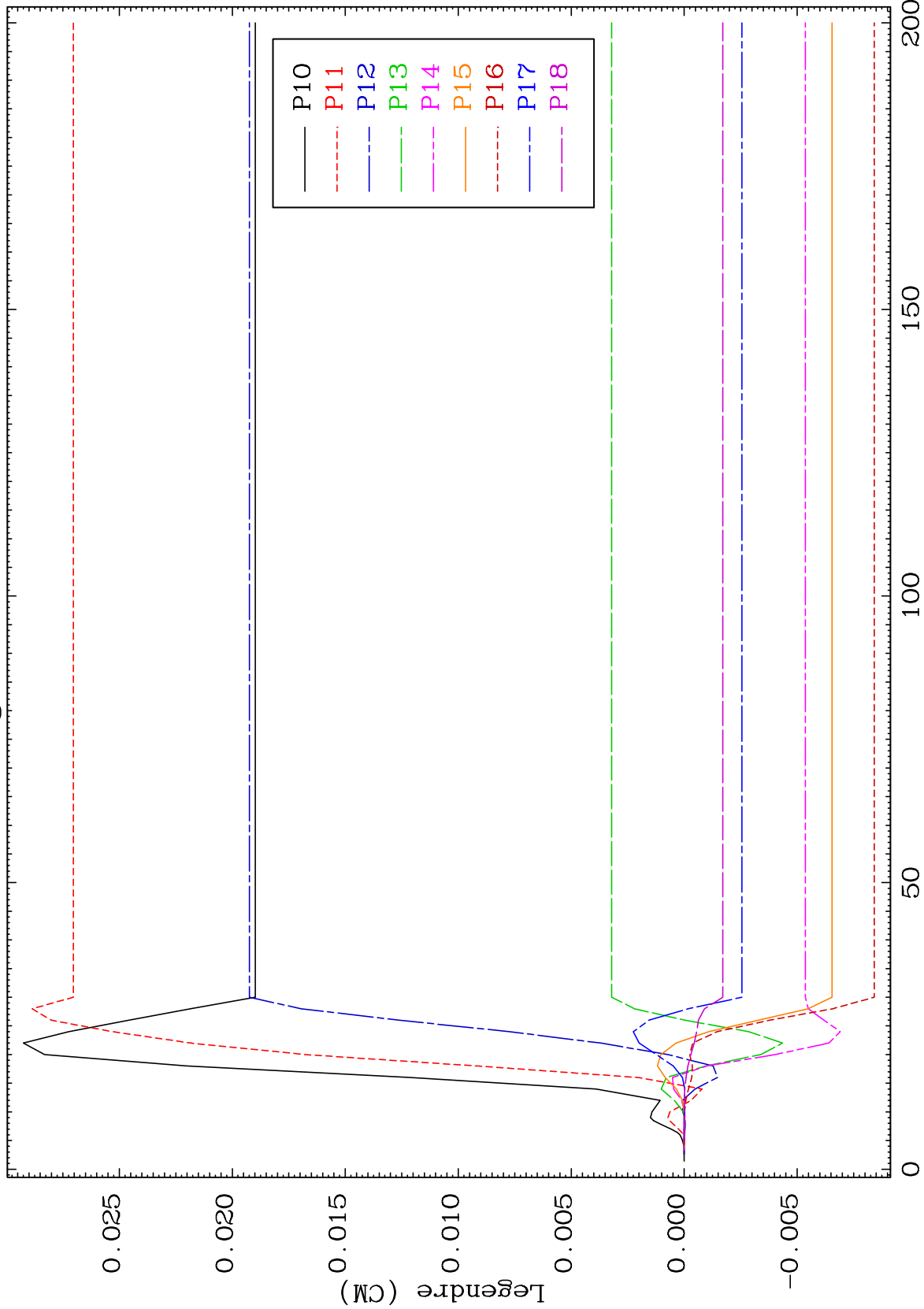
75-Re-183



MAT 7519

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

75-Re-183



75-Re-183

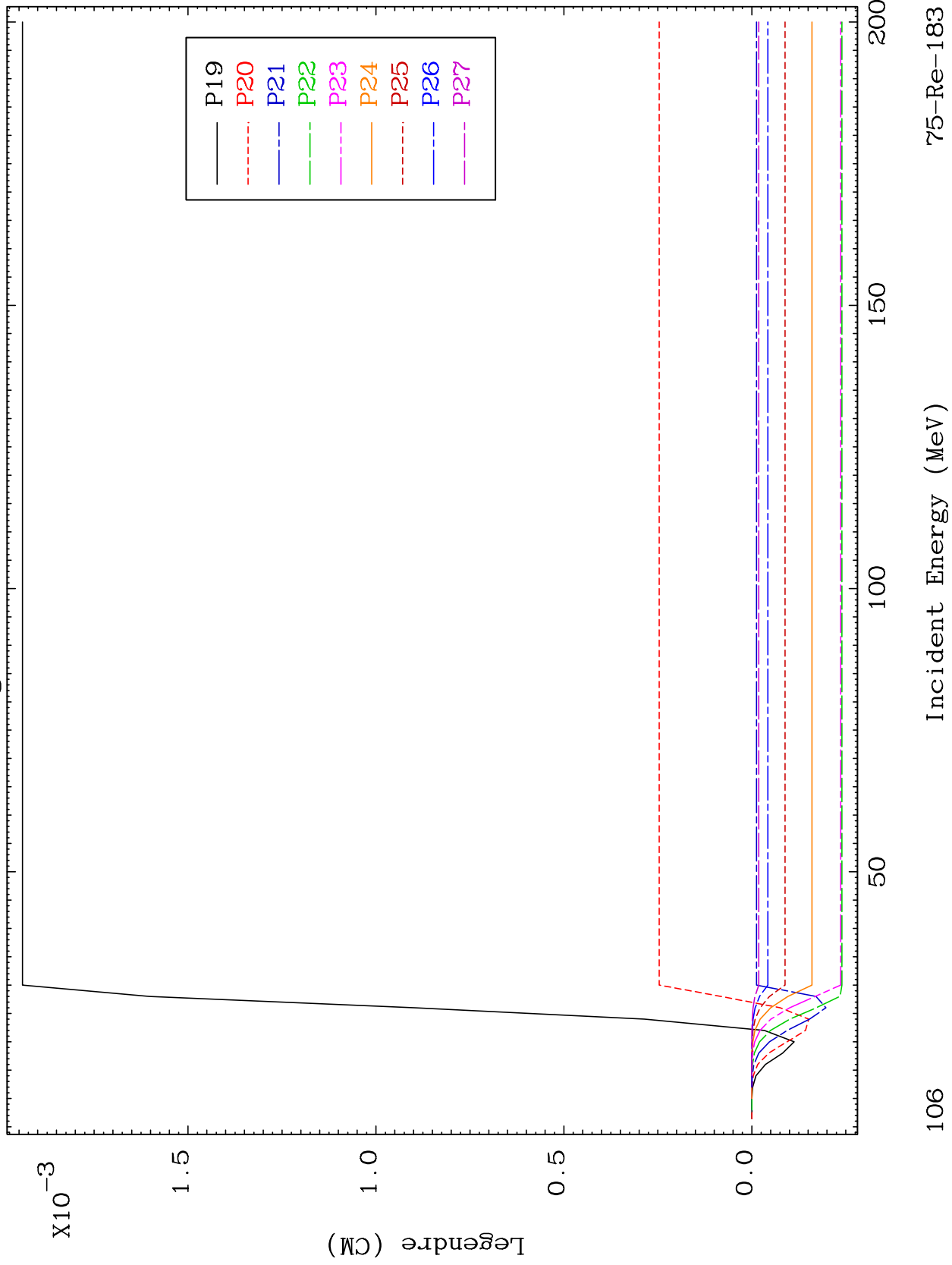
Incident Energy (MeV)

105

MAT 7519

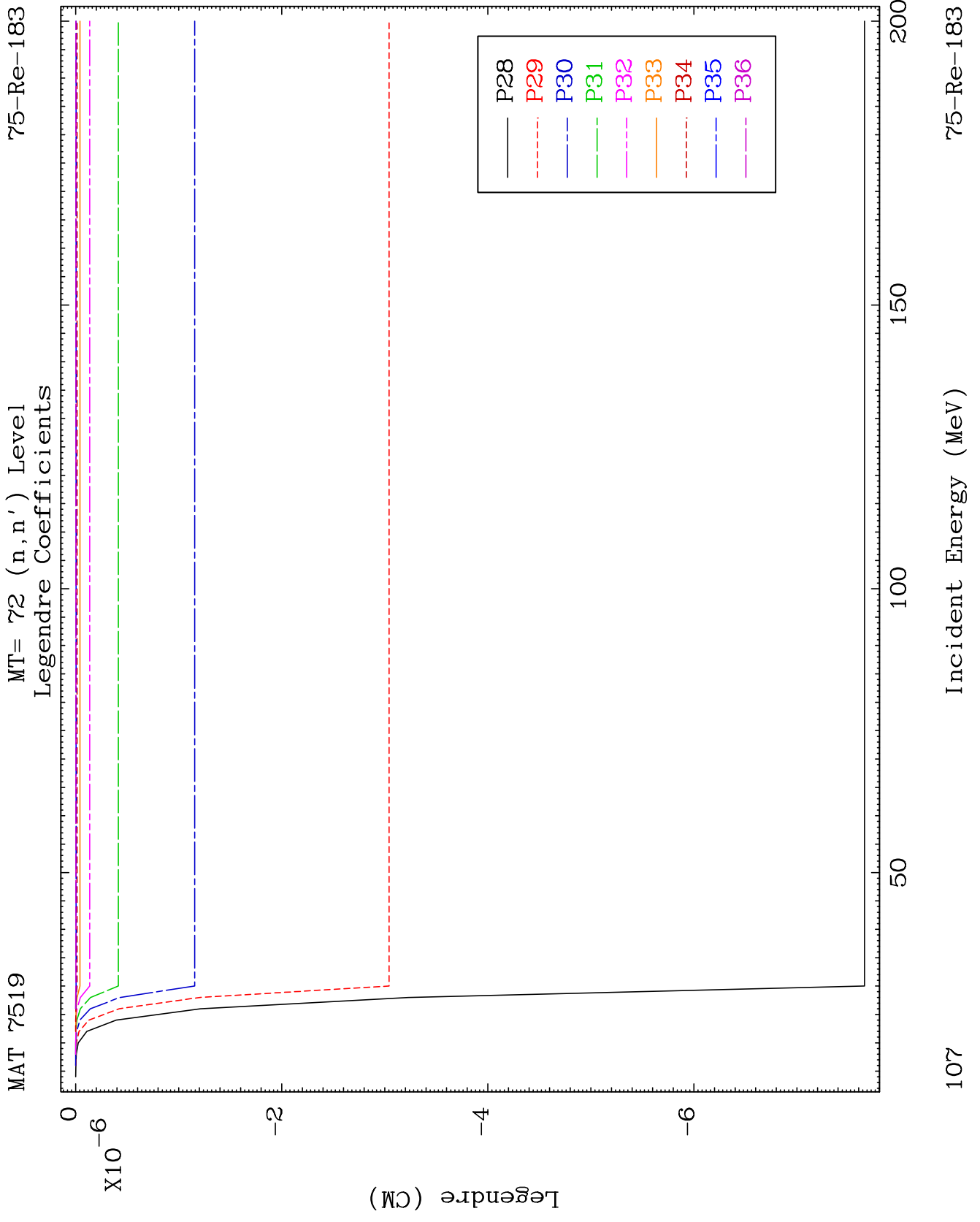
75-Re-183

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



106

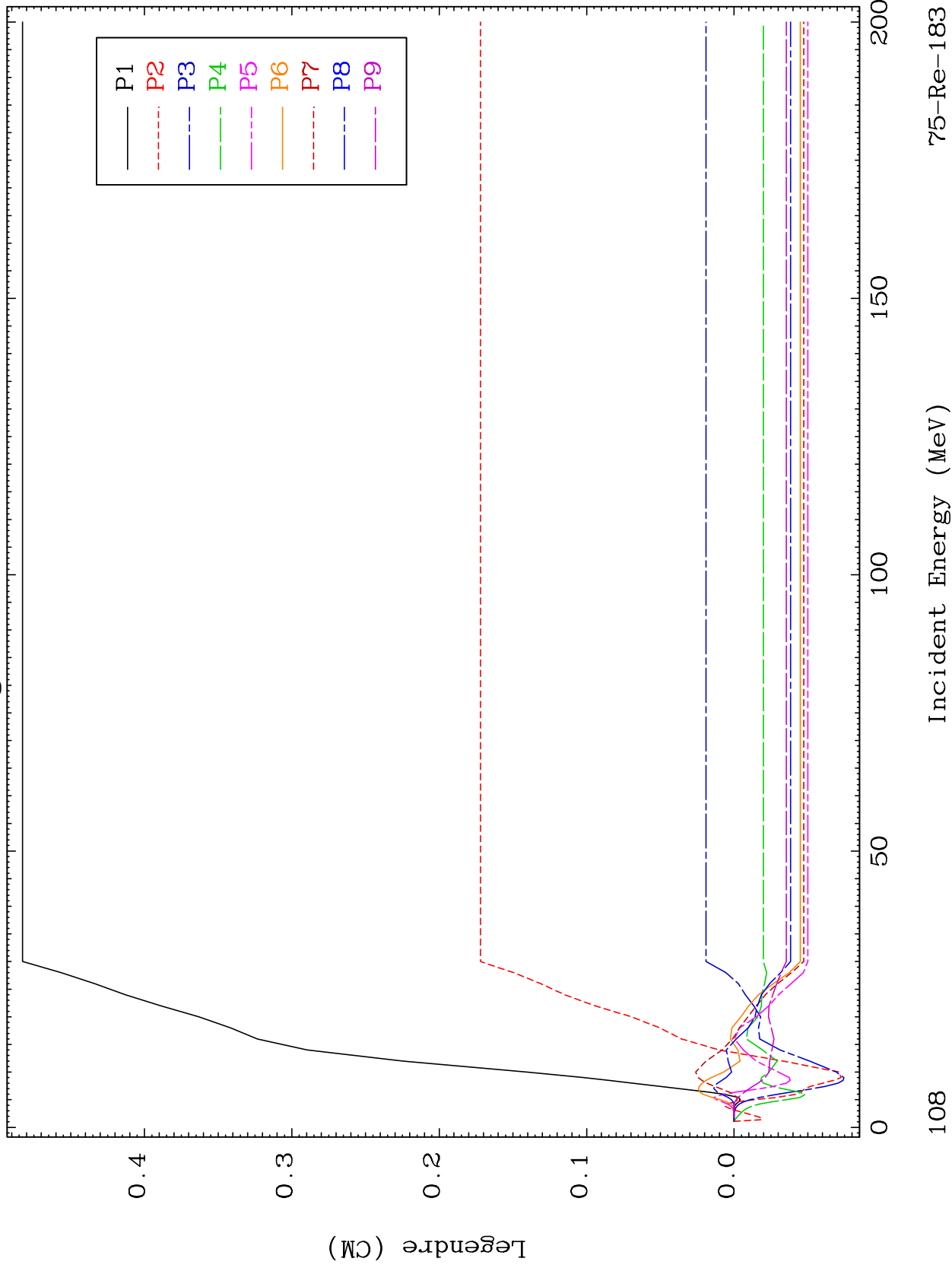
75-Re-183



MAT 7519

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

75-Re-183



75-Re-183

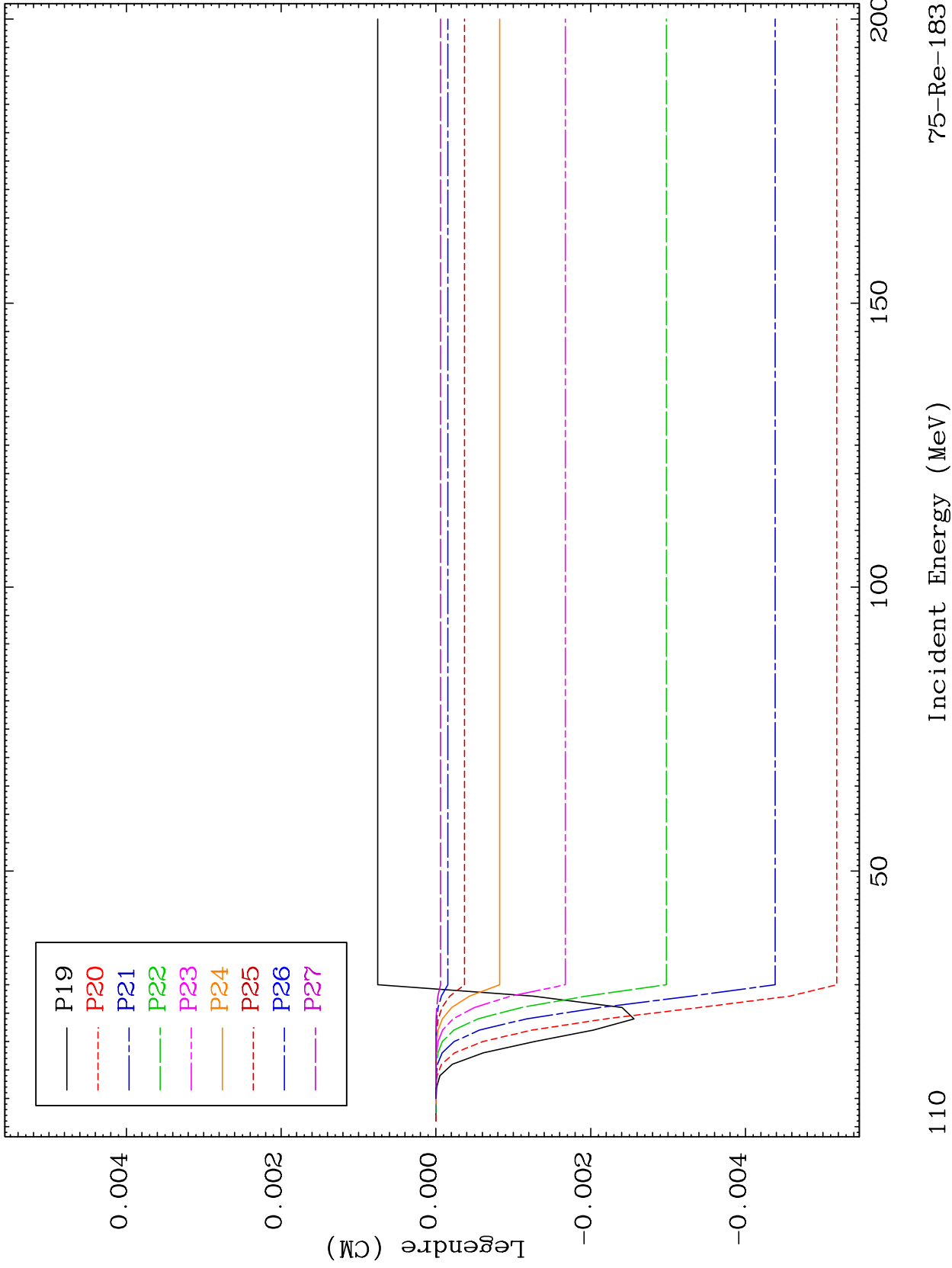
Incident Energy (MeV)

108

MAT 7519

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

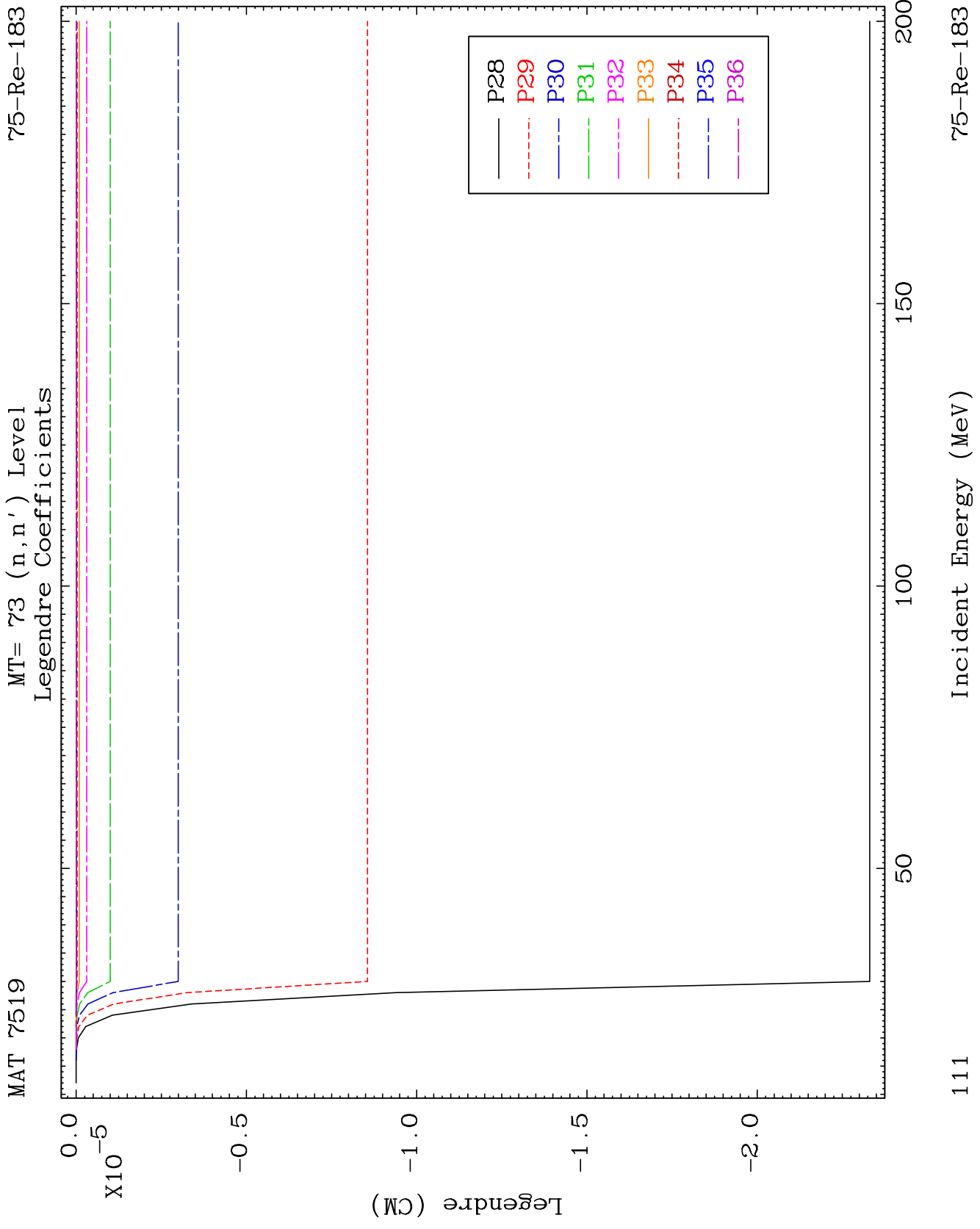
75-Re-183



110

Incident Energy (MeV)

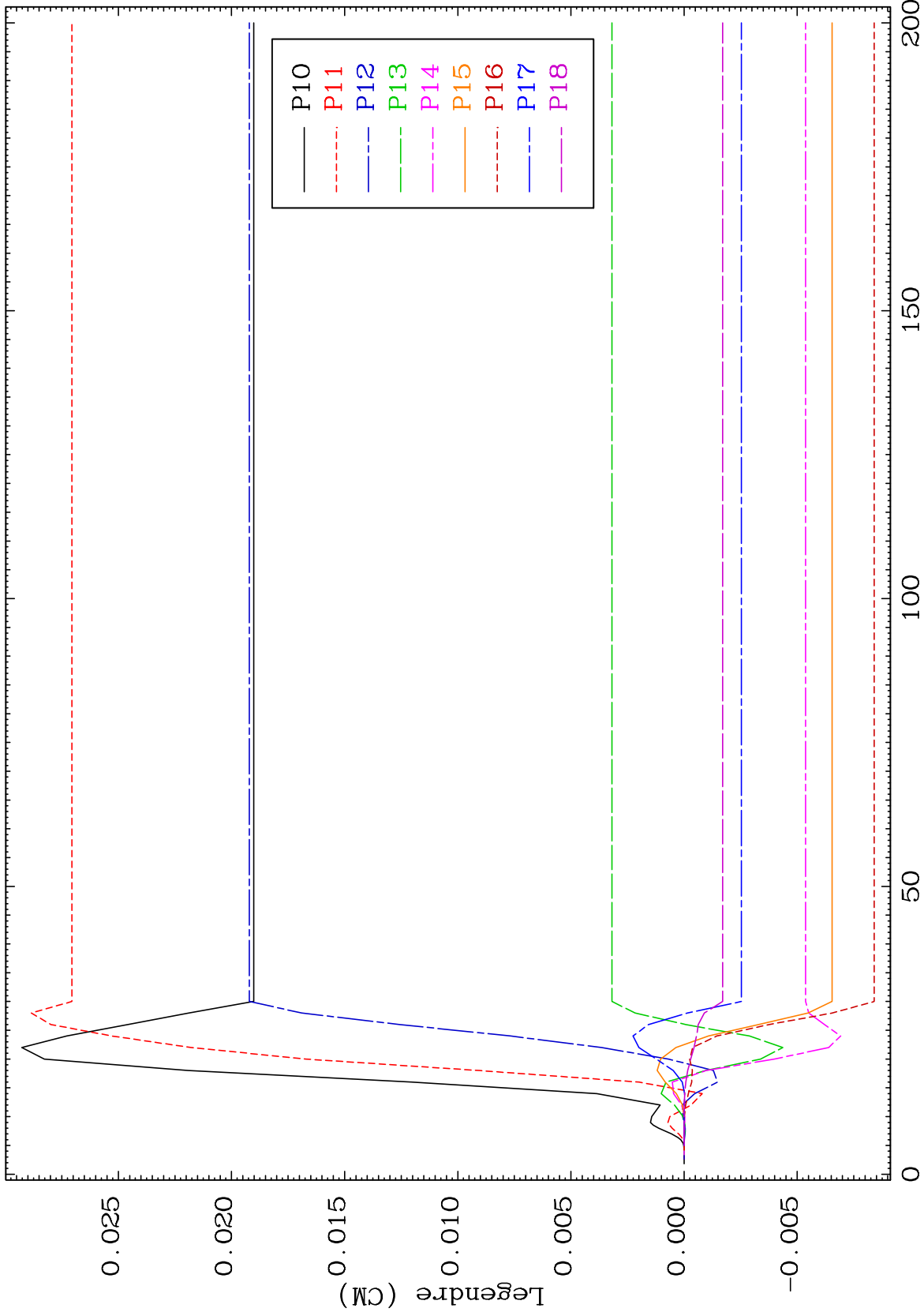
75-Re-183



MAT 7519

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

75-Re-183



113

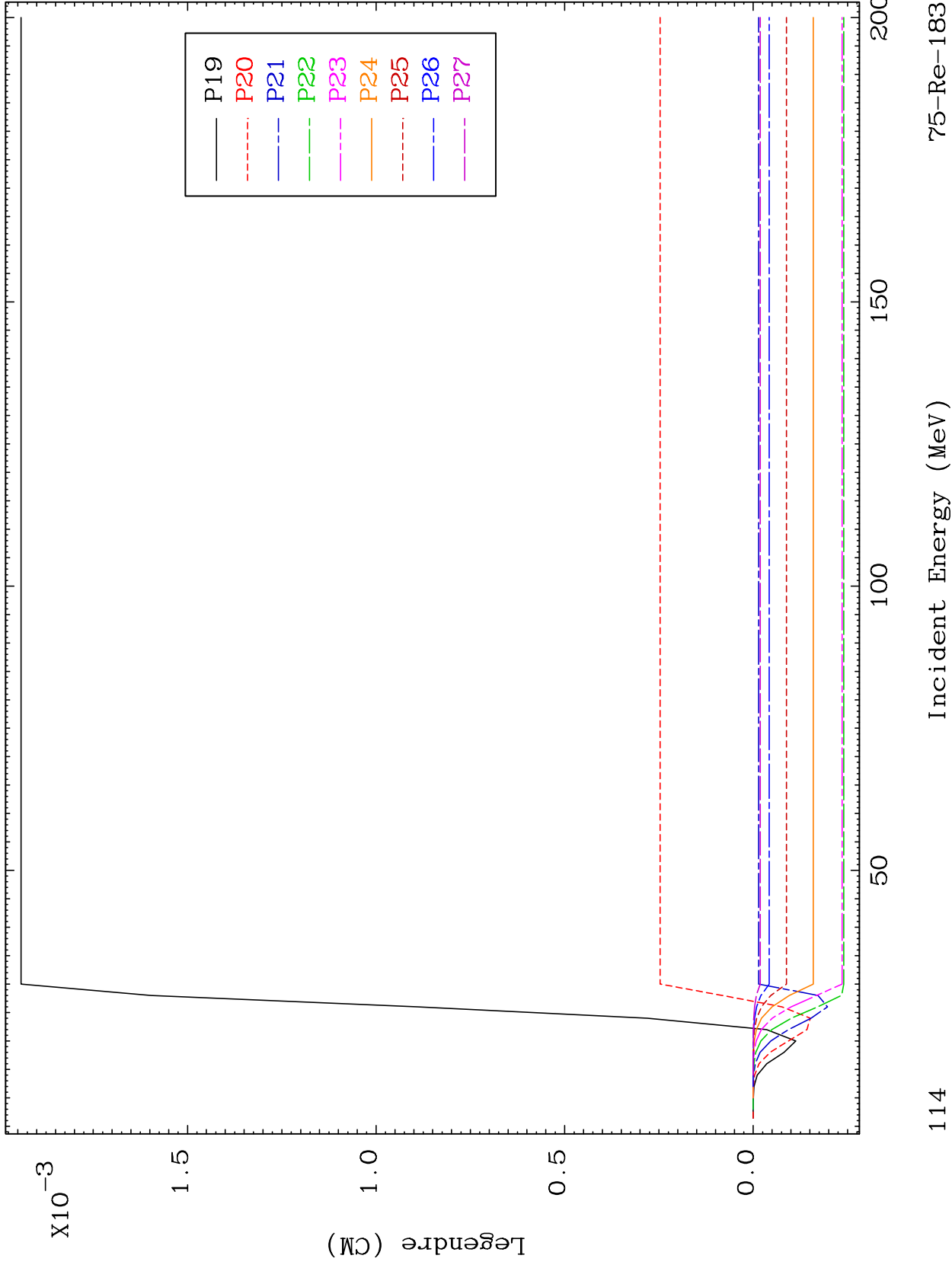
Incident Energy (MeV)

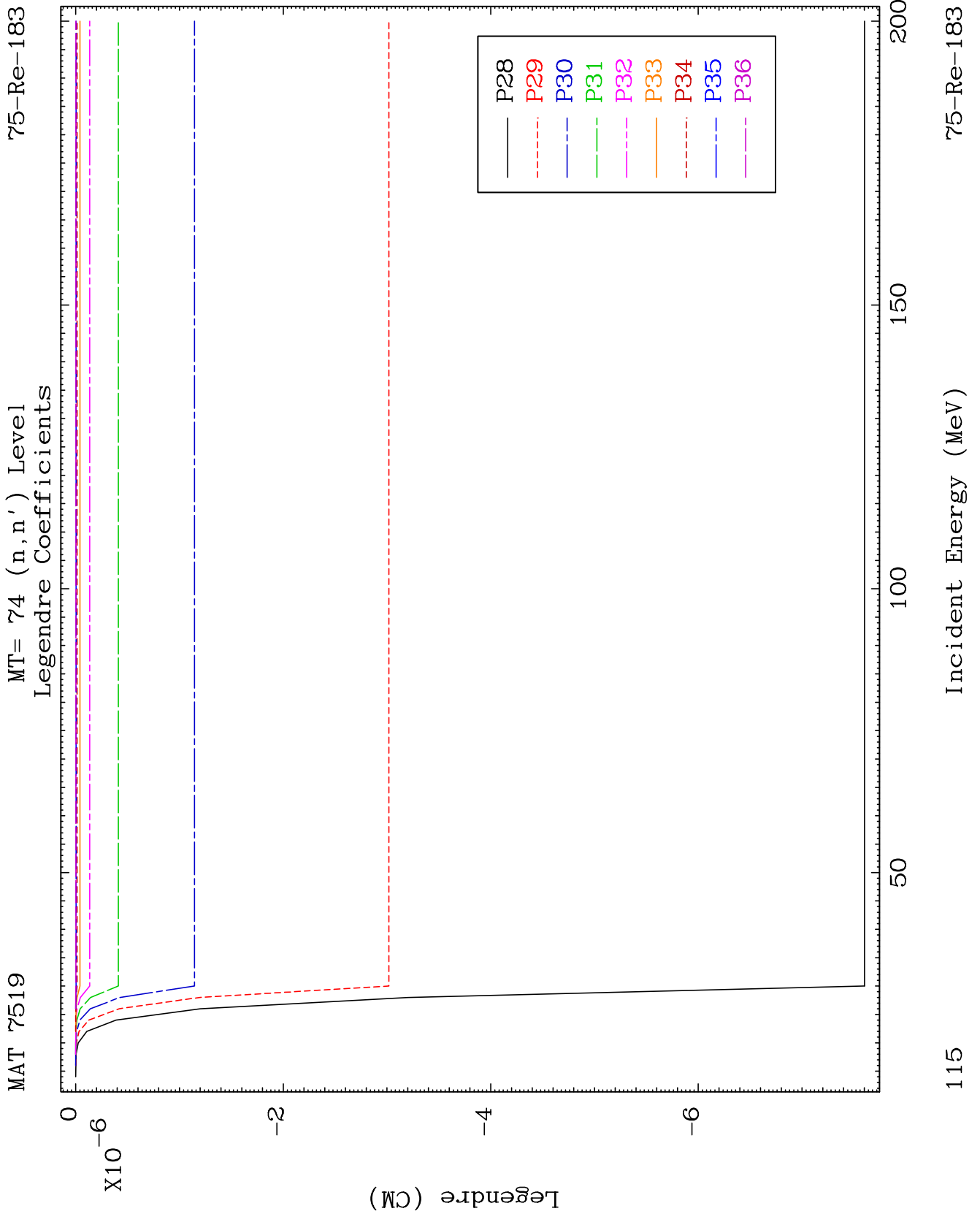
75-Re-183

MAT 7519

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

75-Re-183

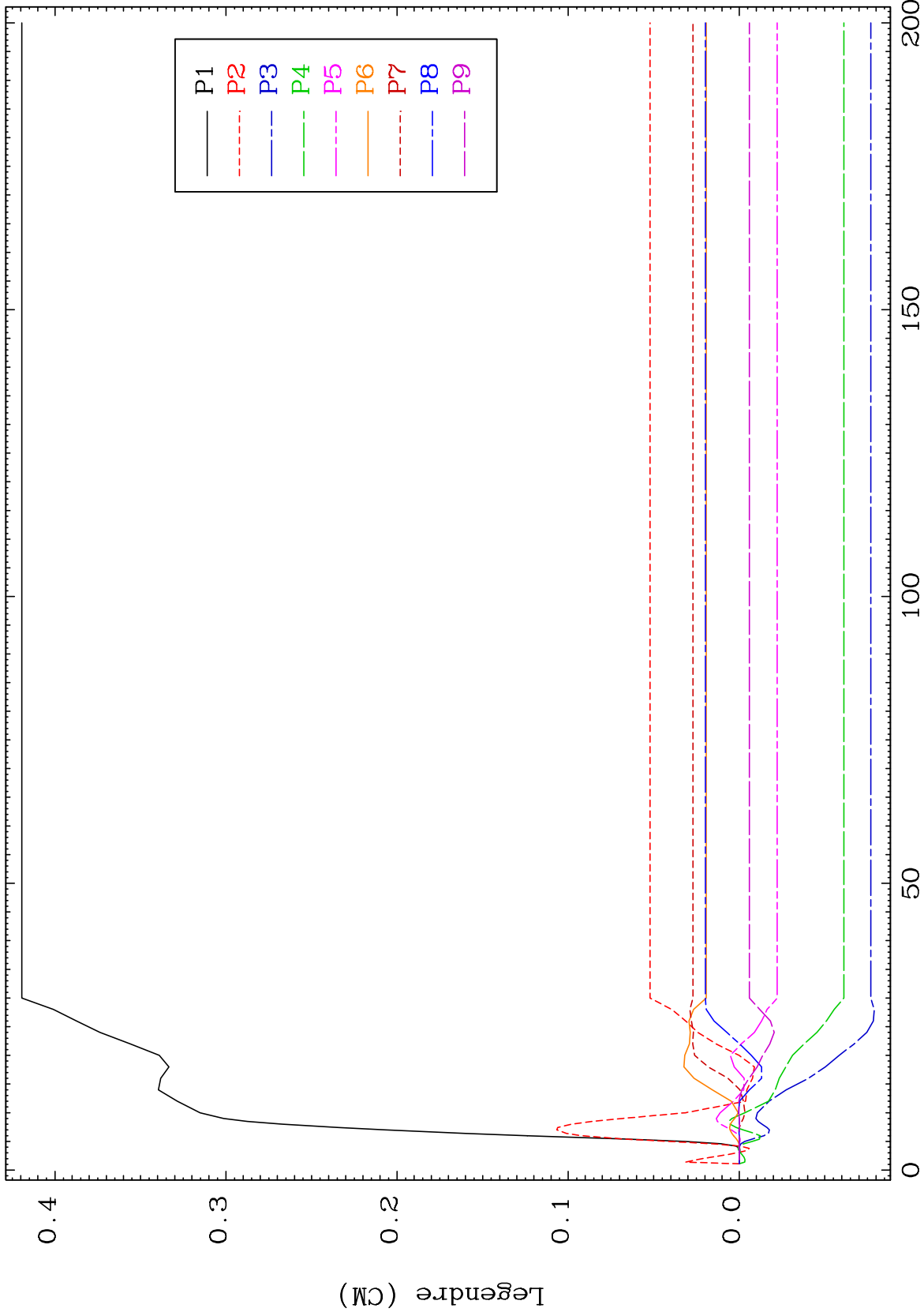




MAT 7519

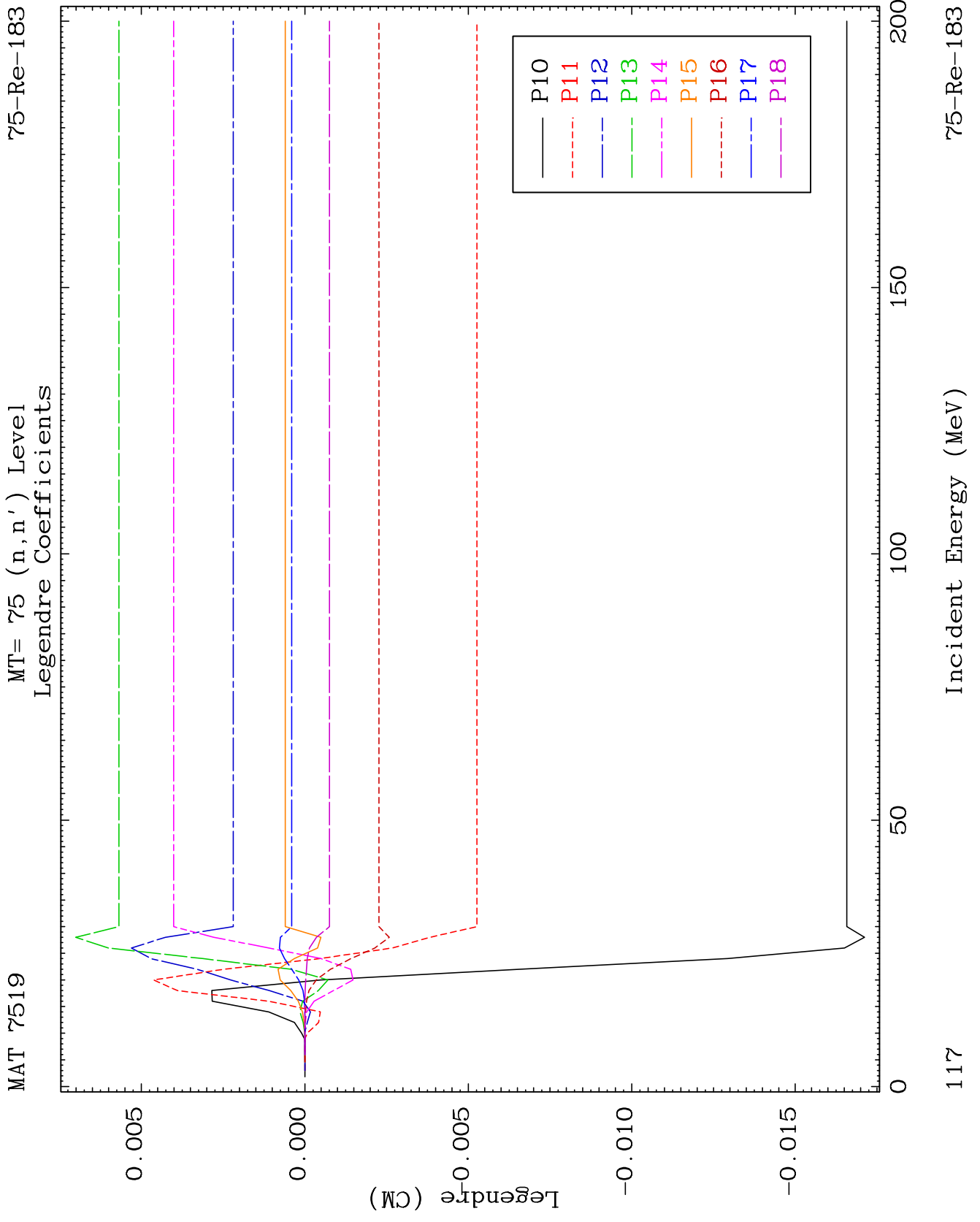
MT= 75 (n,n') Level Legendre Coefficients

75-Re-183



116

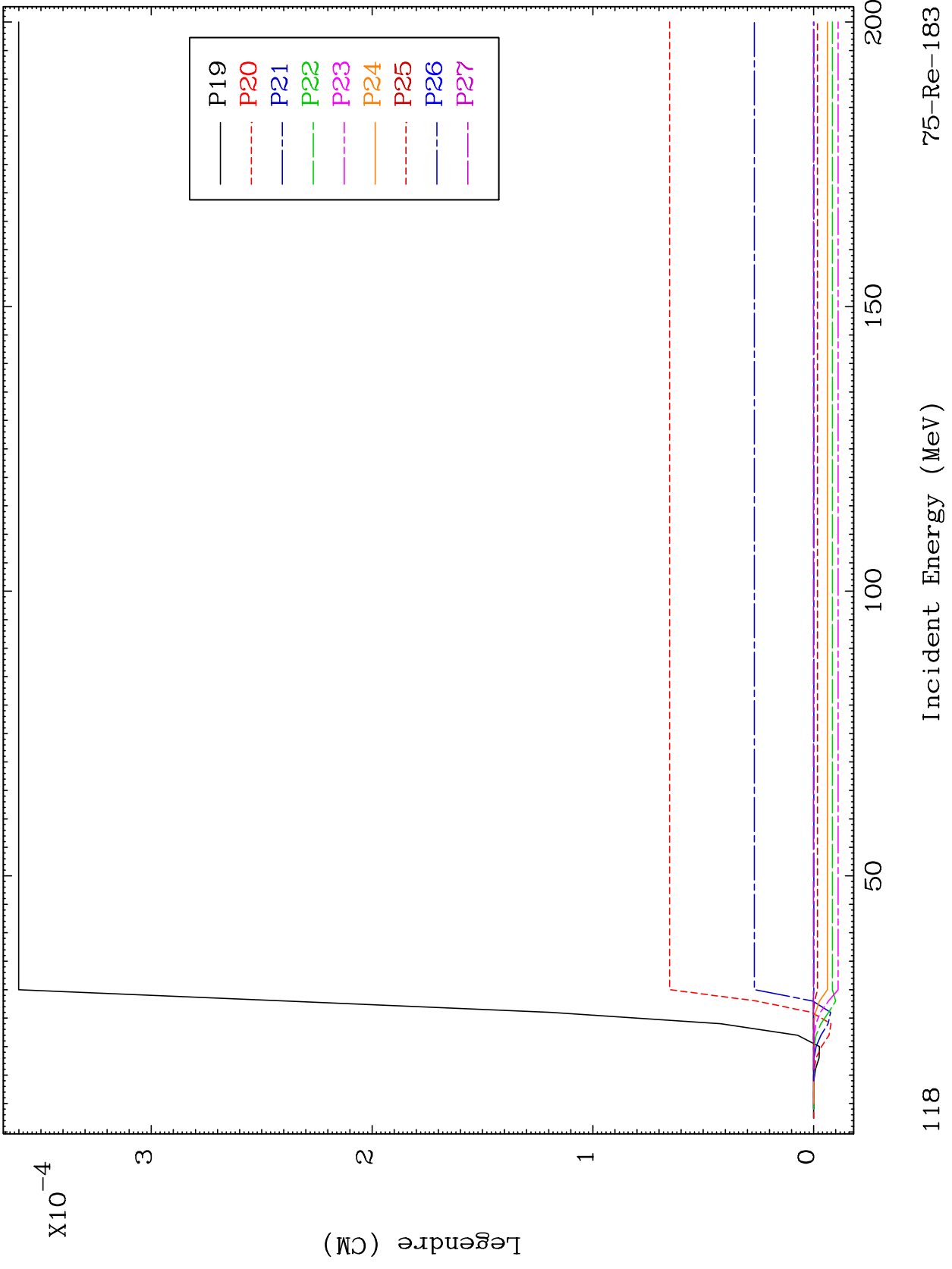
75-Re-183



MAT 7519

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

75-Re-183



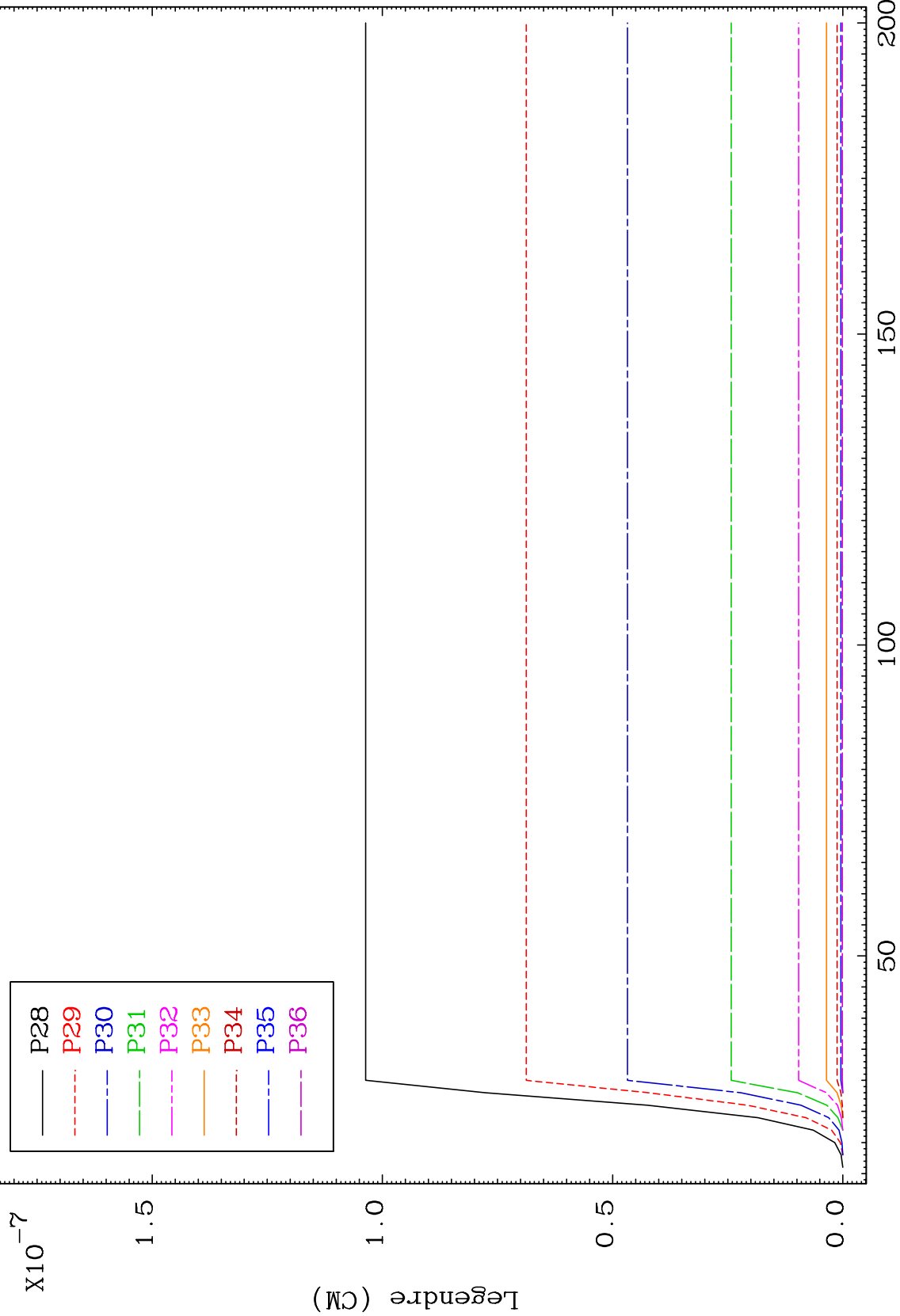
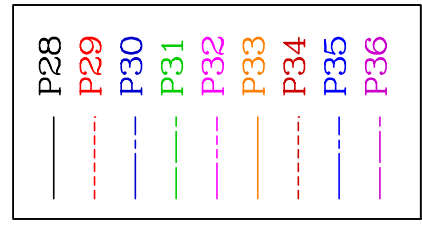
118

75-Re-183

MAT 7519

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

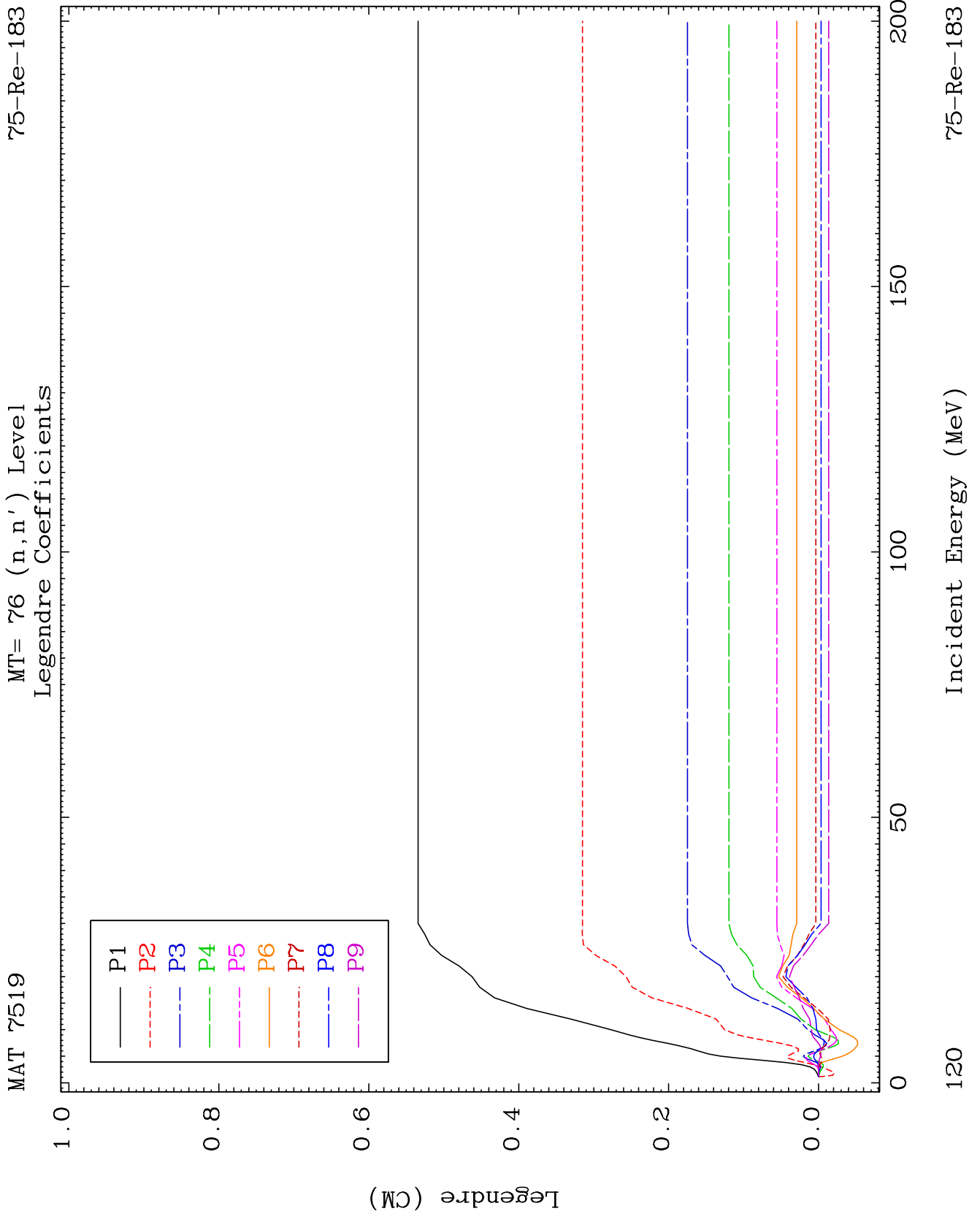
75-Re-183

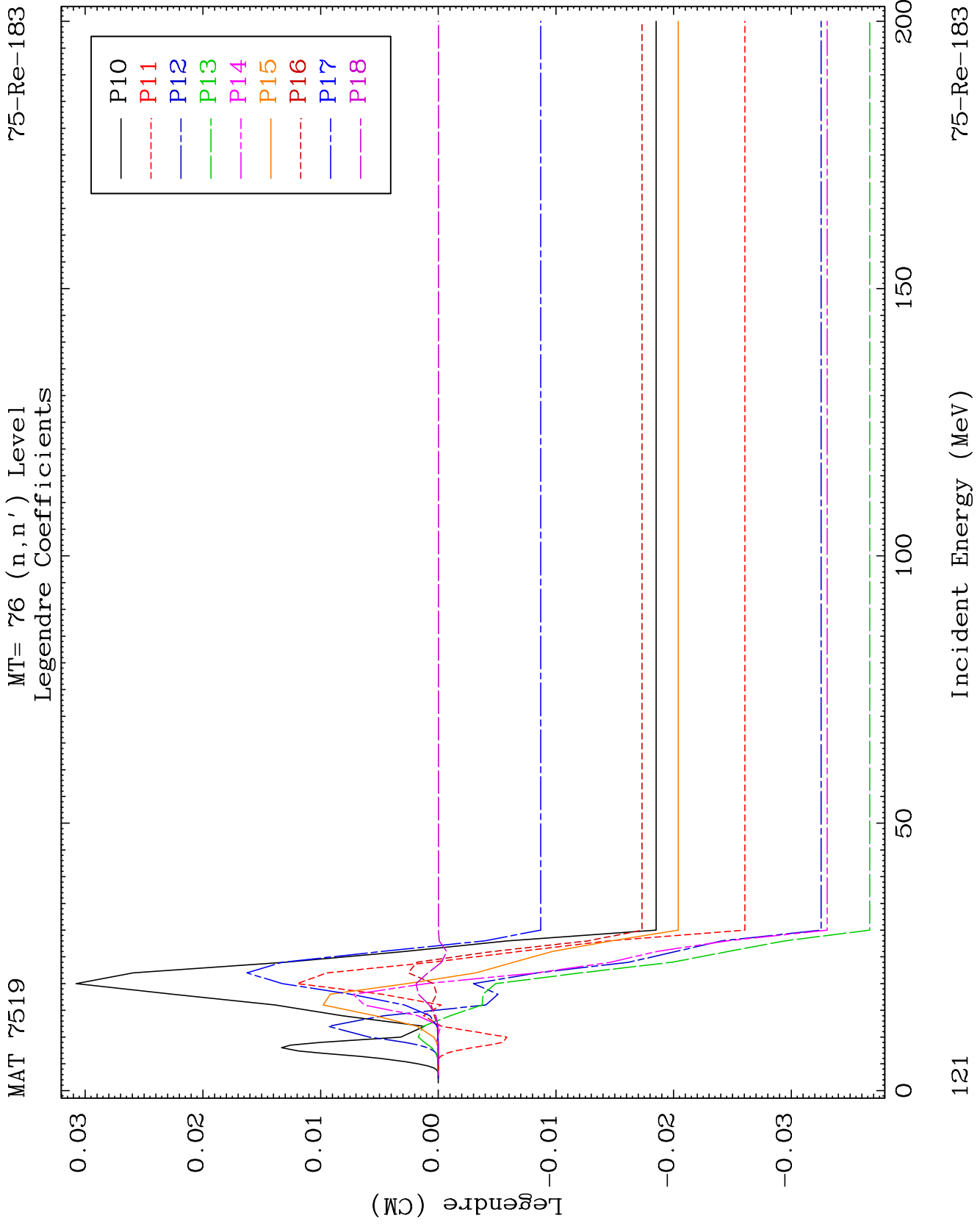


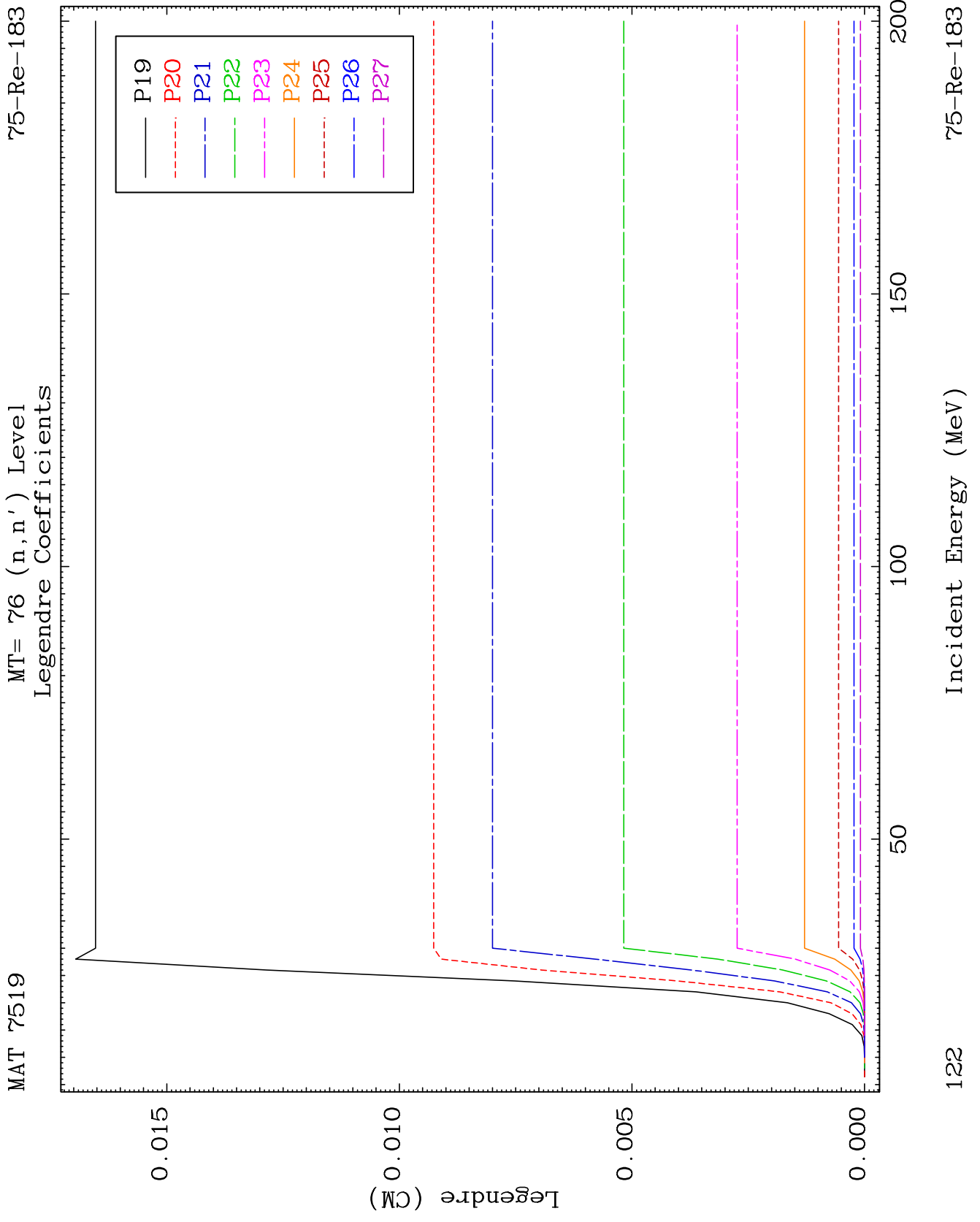
119

Incident Energy (MeV)

75-Re-183



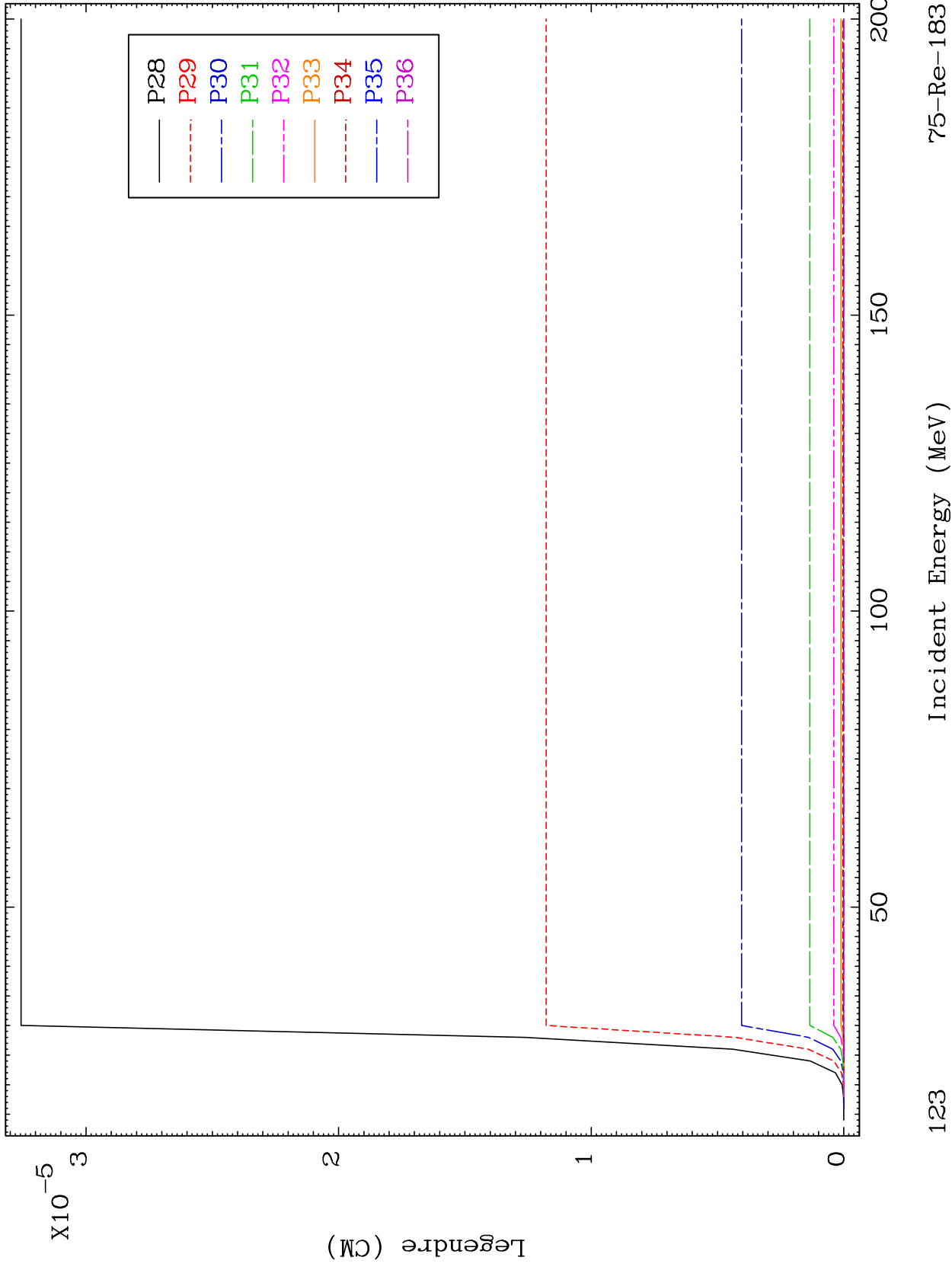




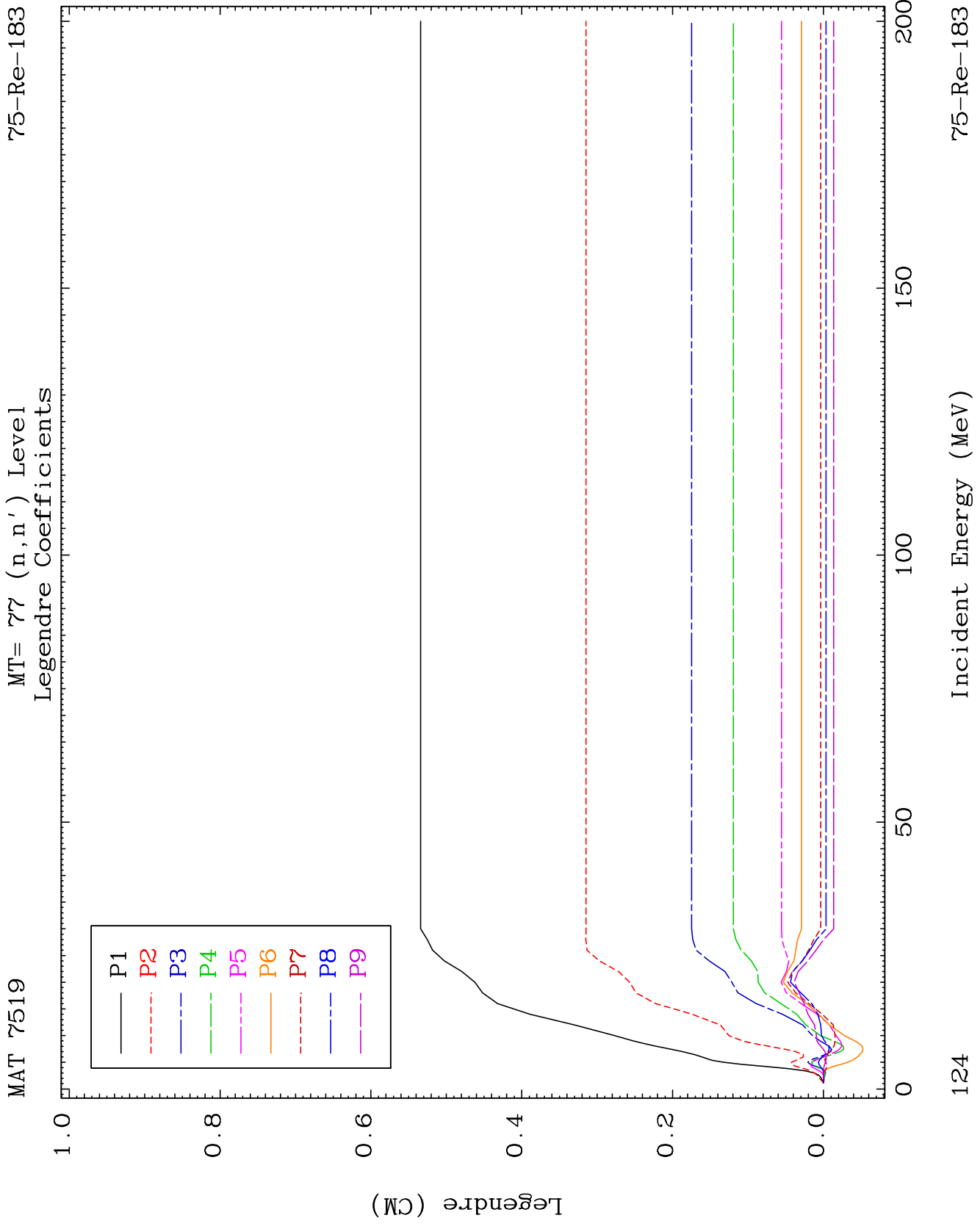
MAT 7519

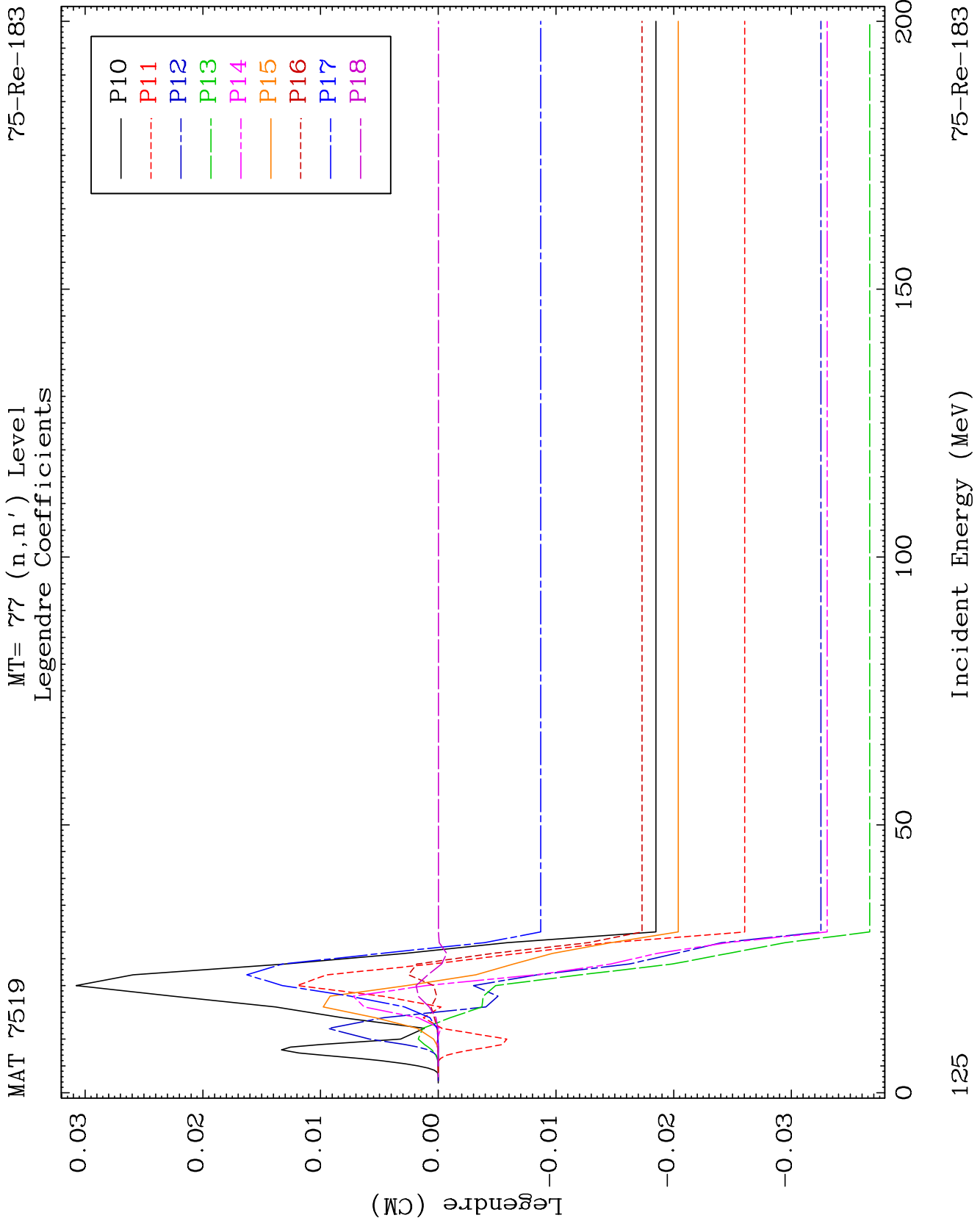
MT= 76 (n,n') Level
Legendre Coefficients

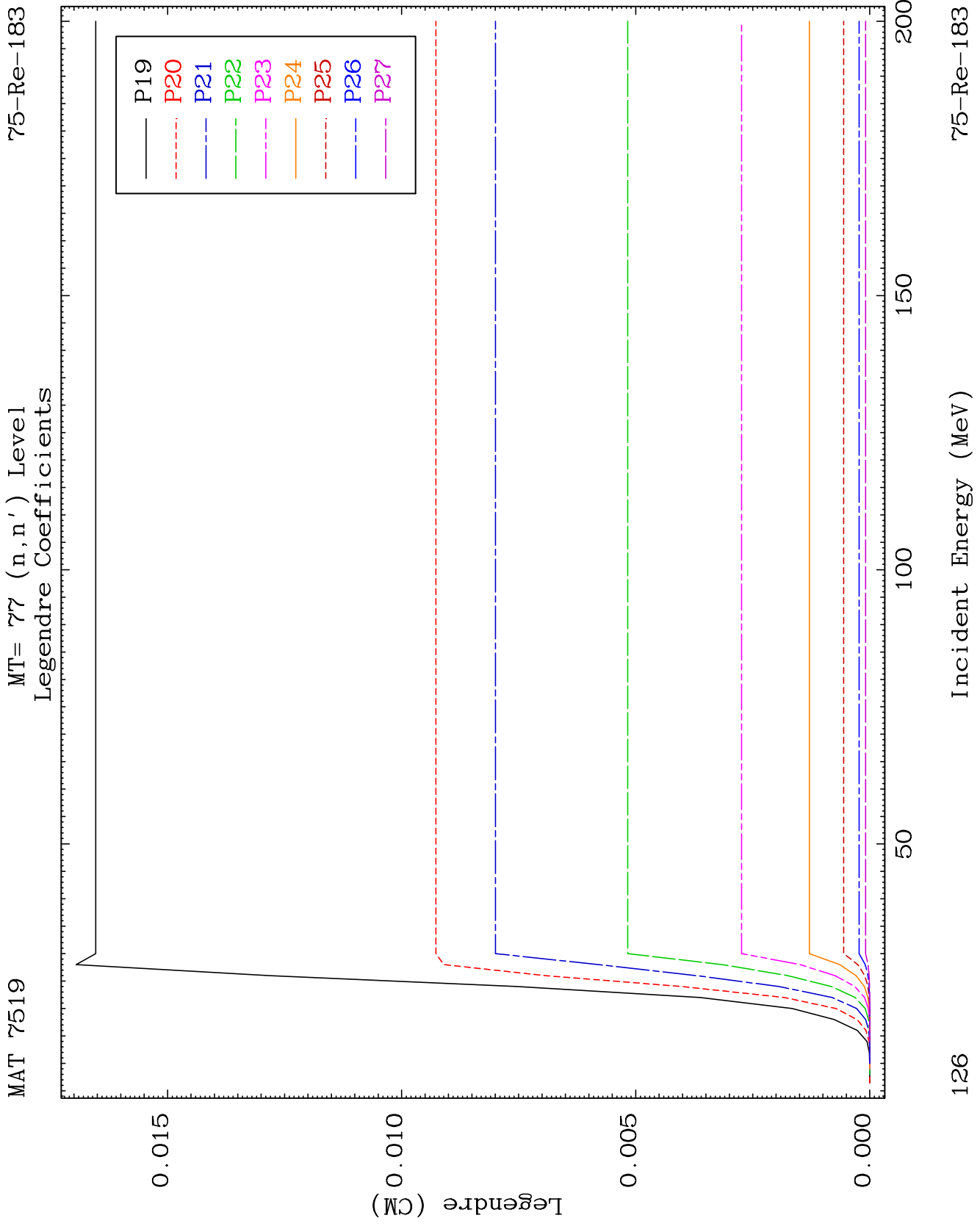
75-Re-183



123



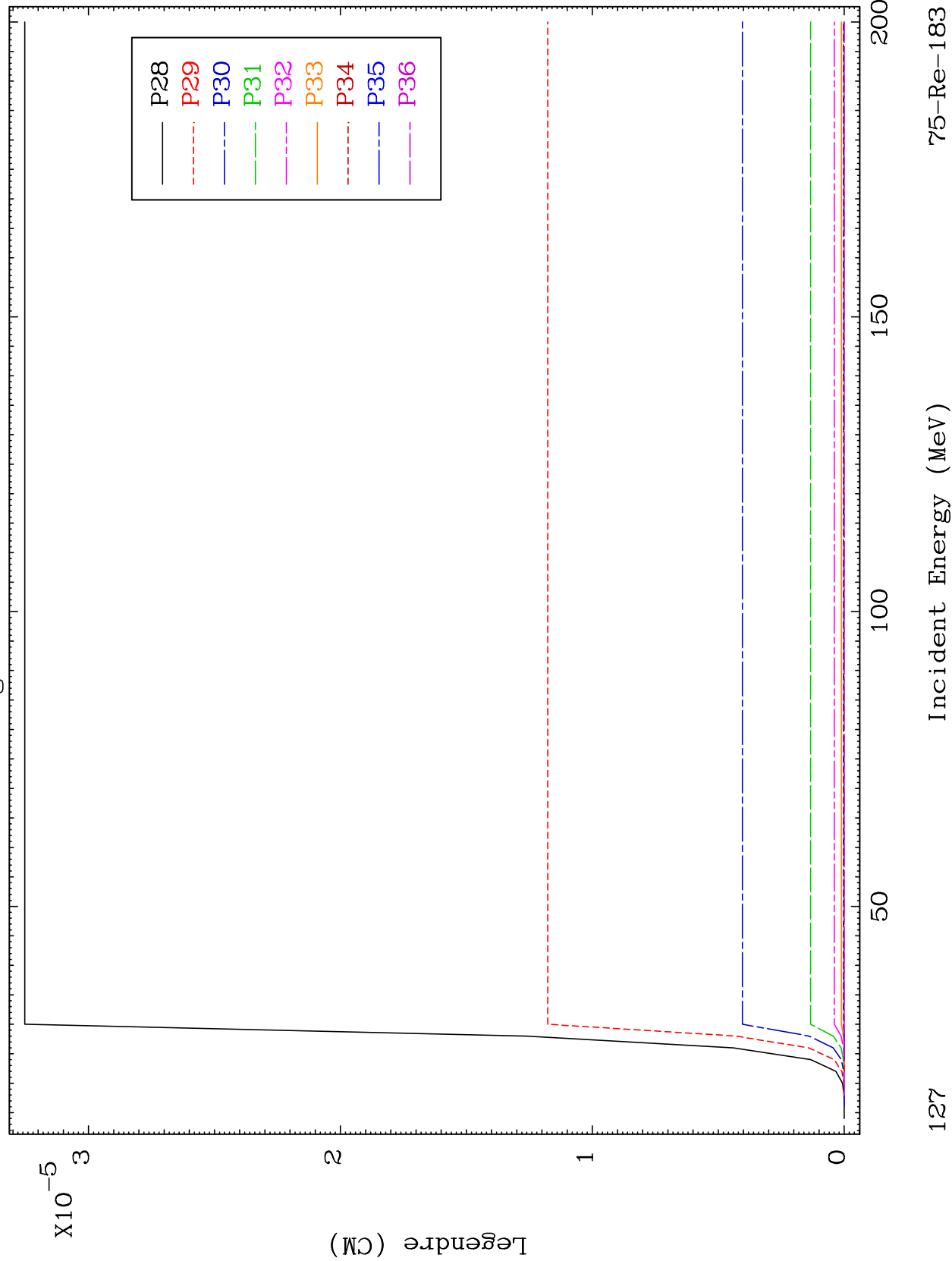


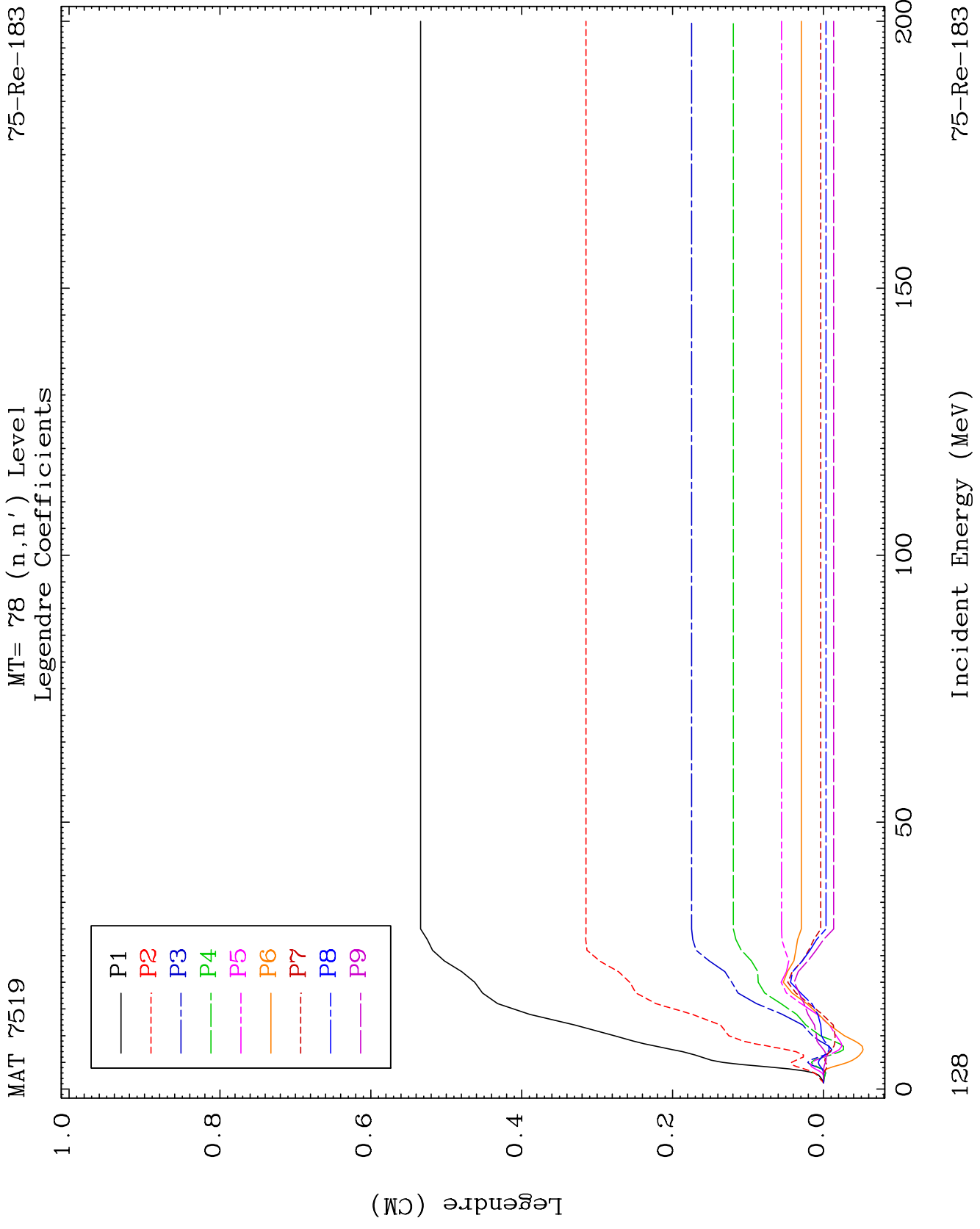


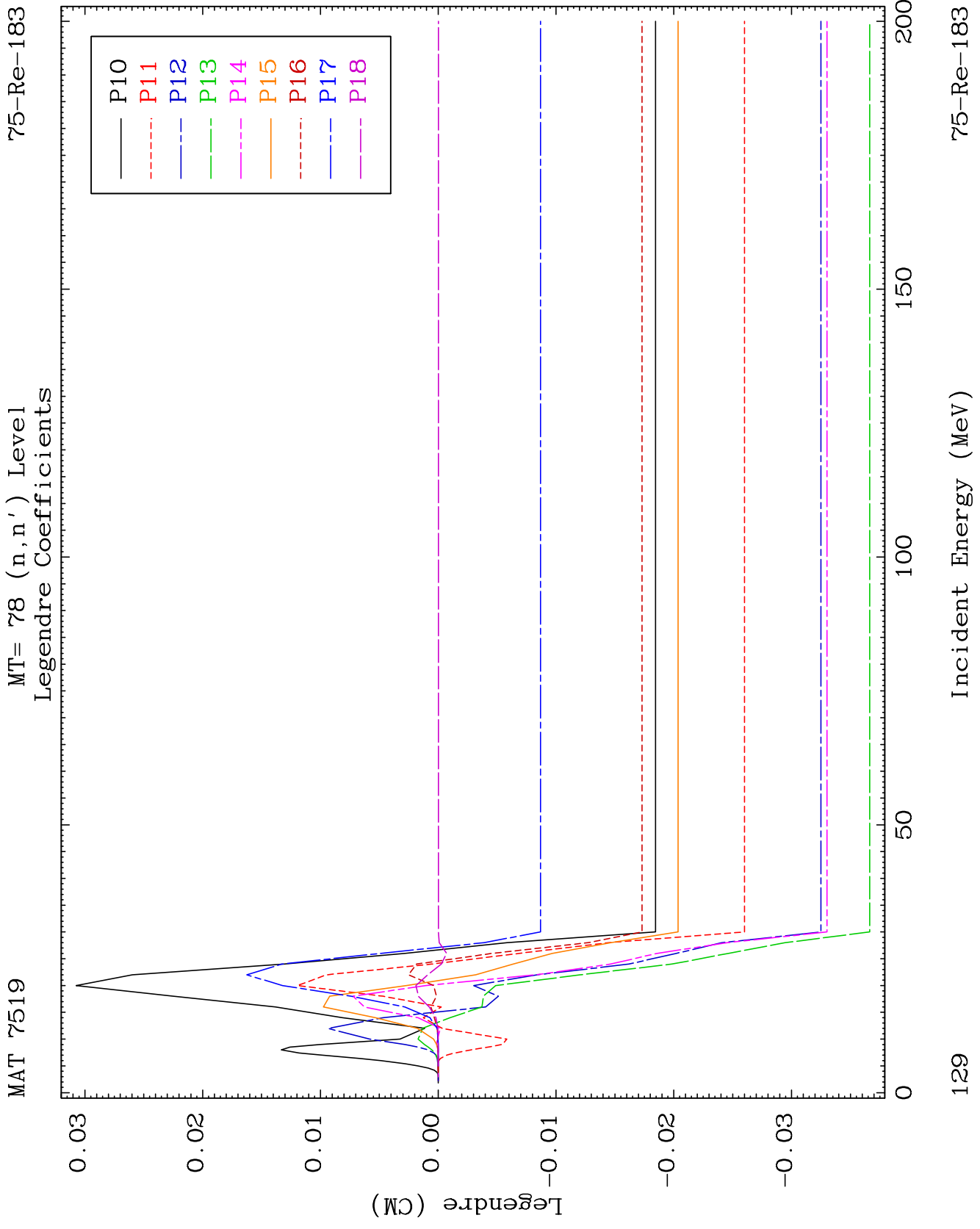
MAT 7519

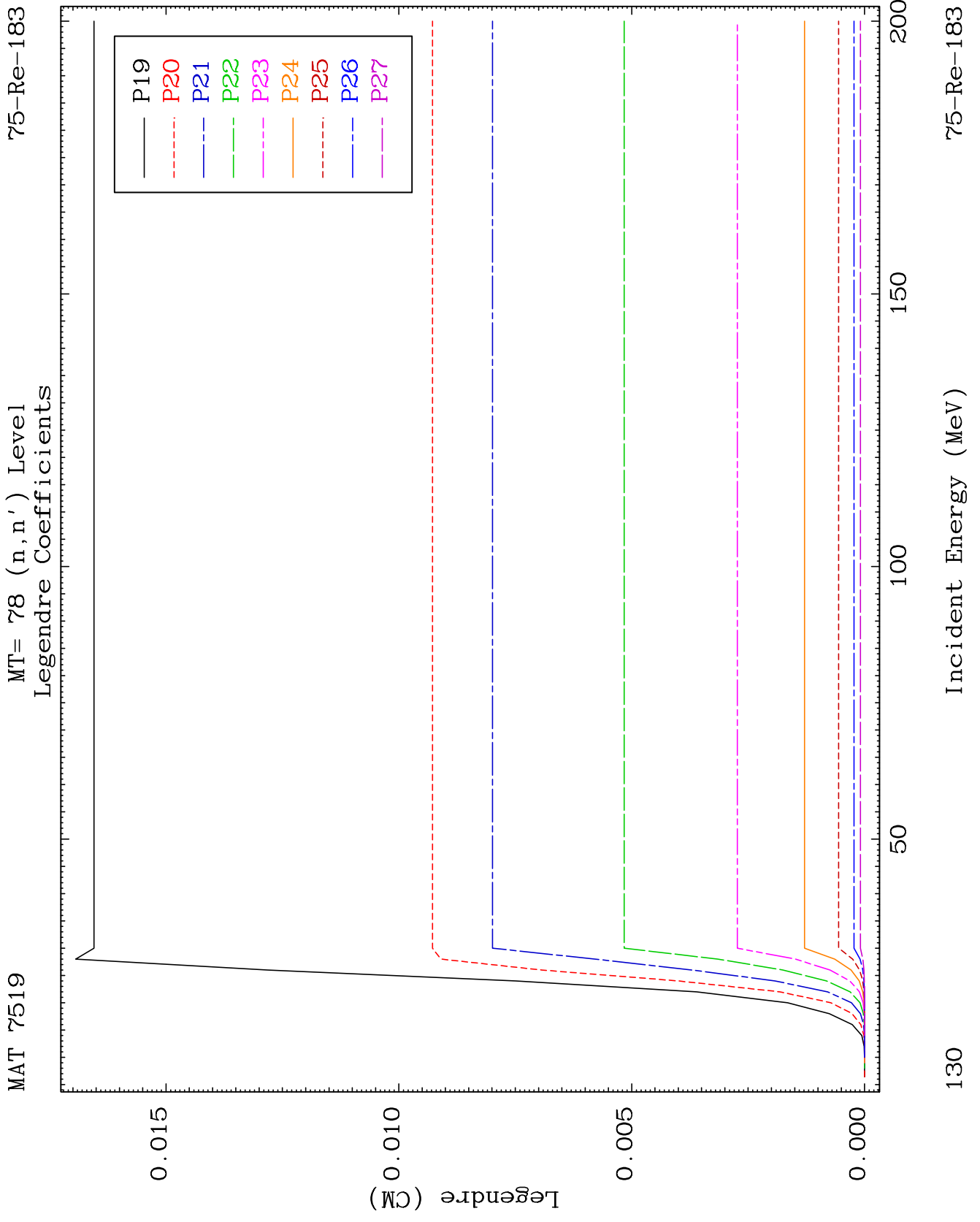
MT= 77 (n,n') Level
Legendre Coefficients

75-Re-183





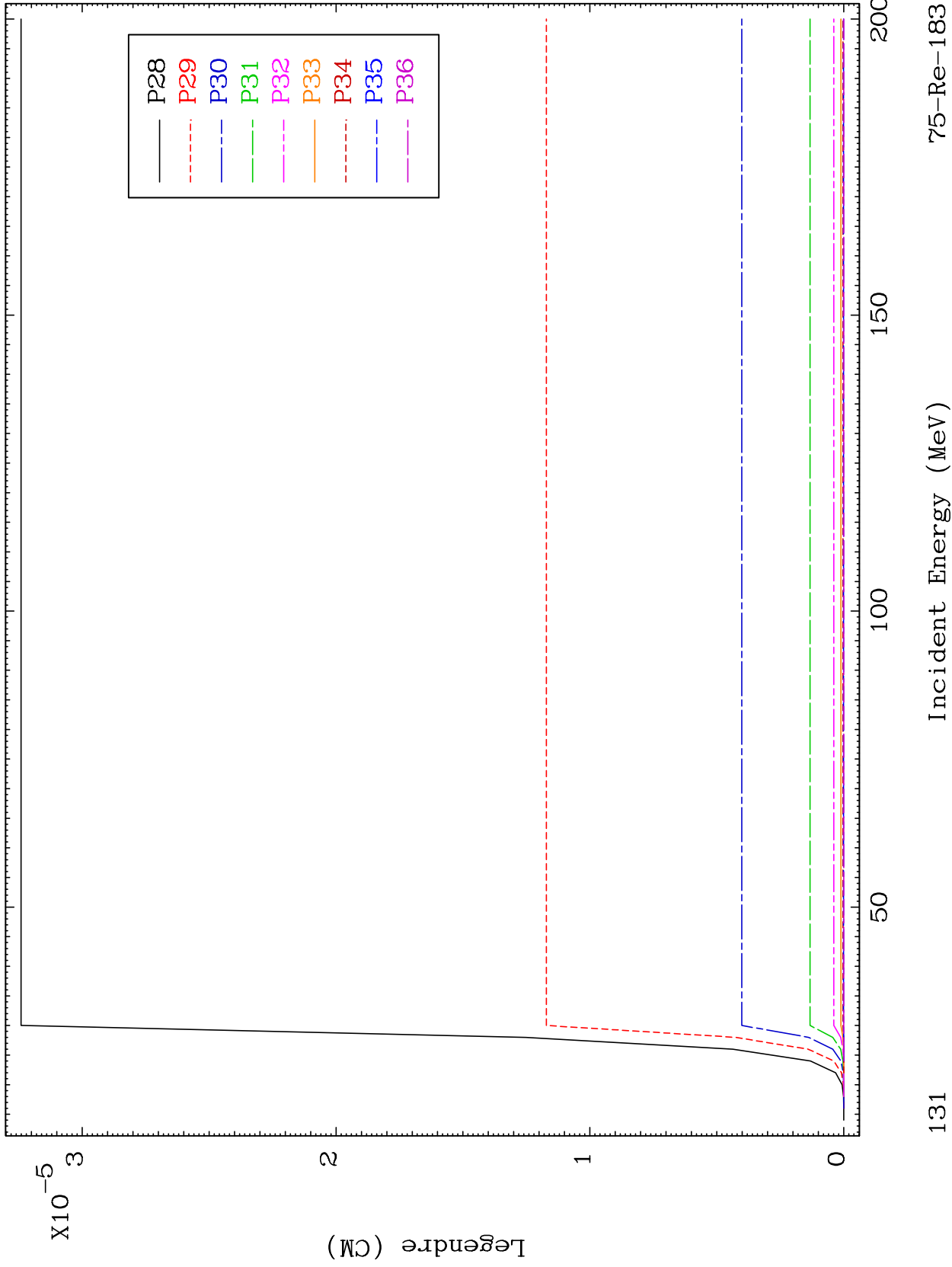




MAT 7519

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

75-Re-183



131

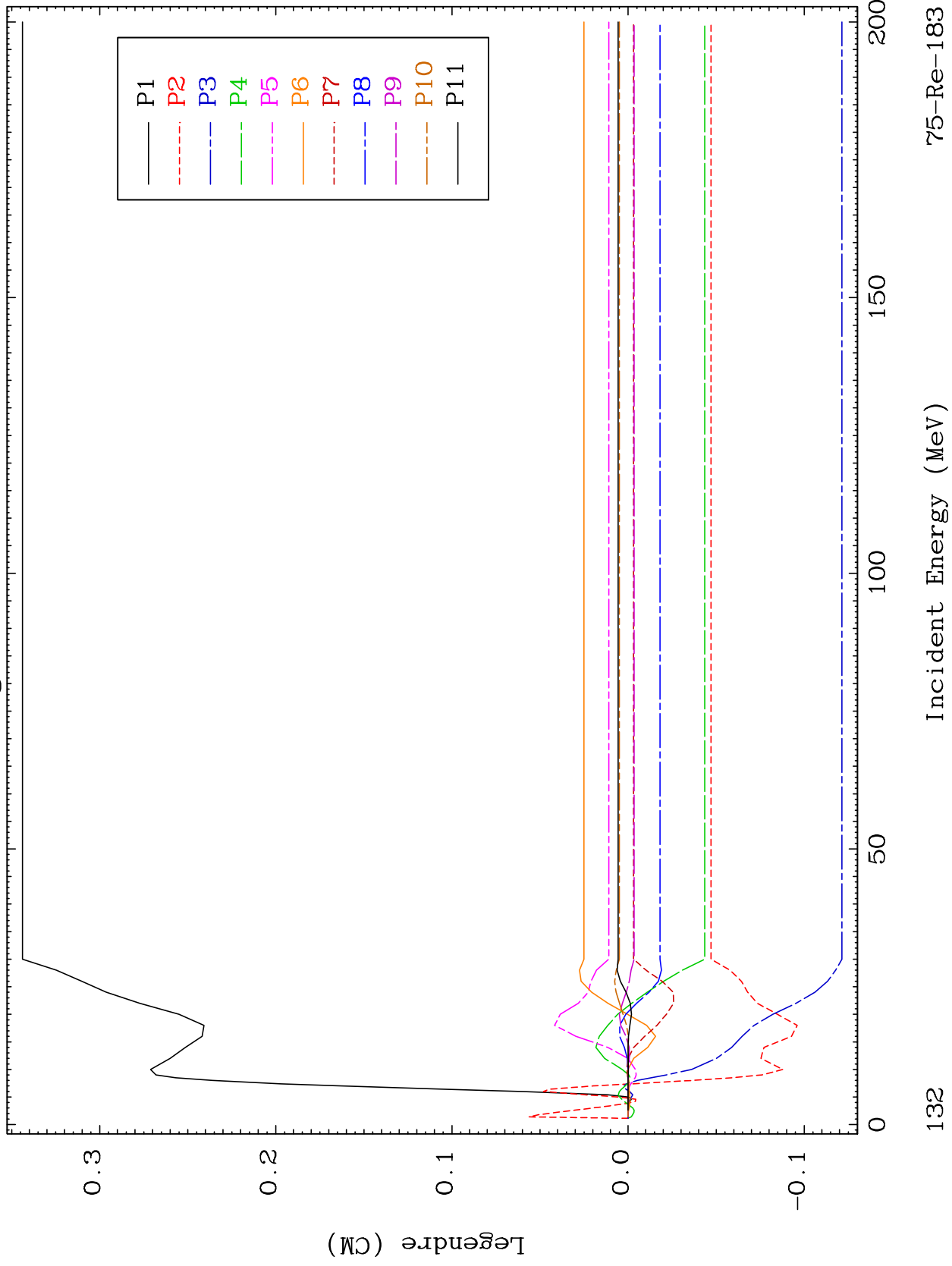
Incident Energy (MeV)

75-Re-183

MAT 7519

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

75-Re-183



75-Re-183

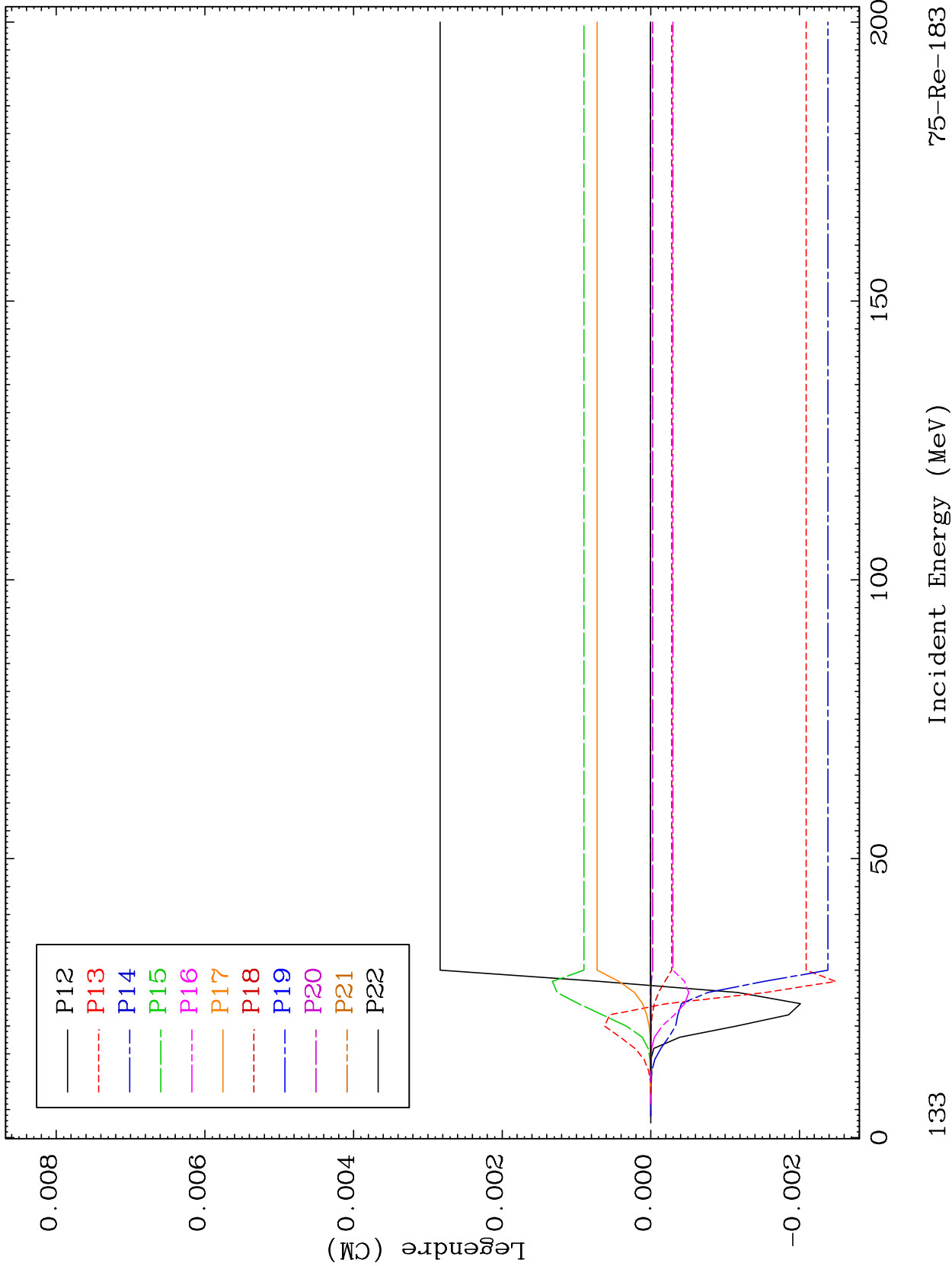
Incident Energy (MeV)

132

MAT 7519

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

75-Re-183



133

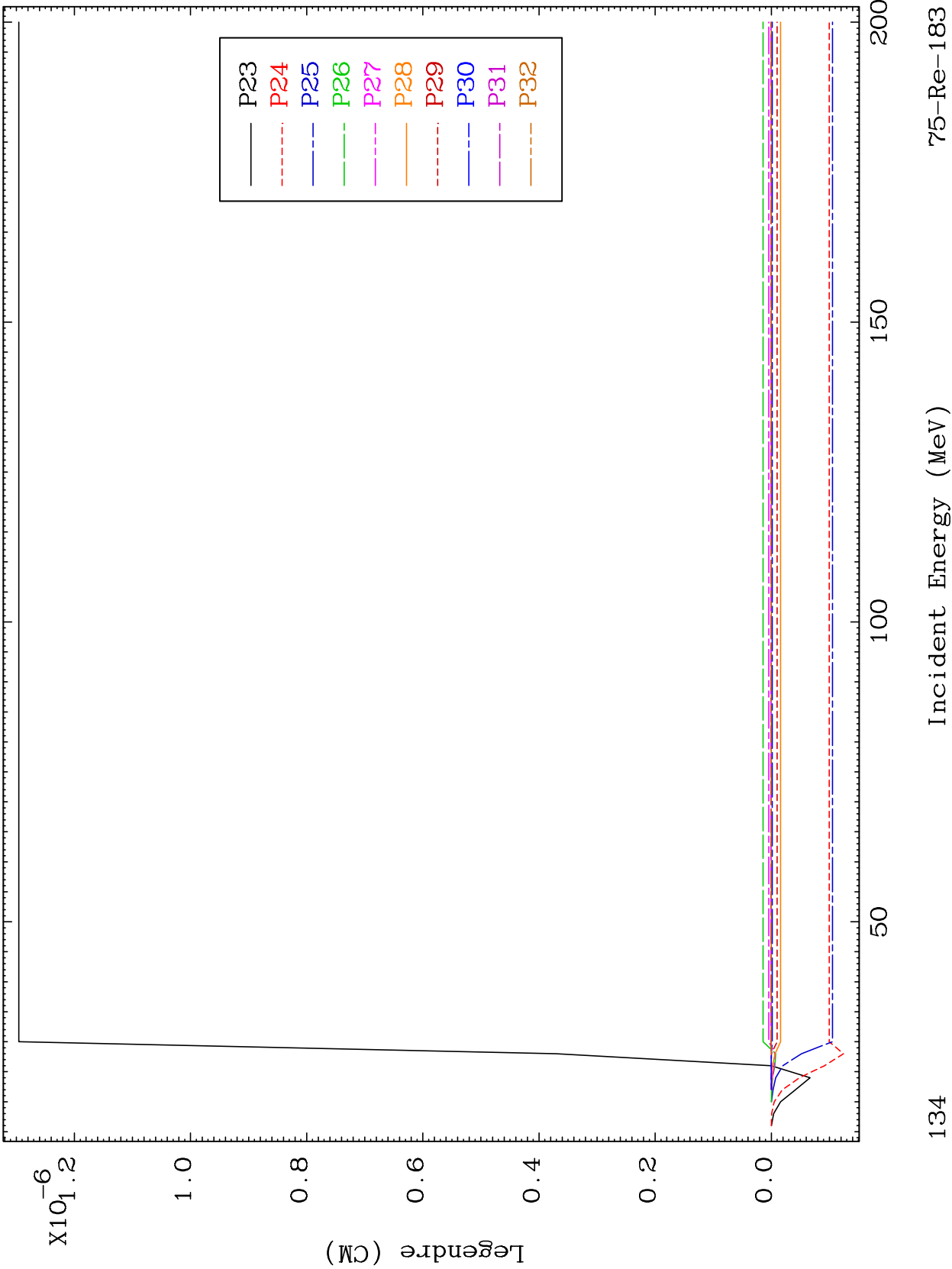
Incident Energy (MeV)

75-Re-183

MAT 7519

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

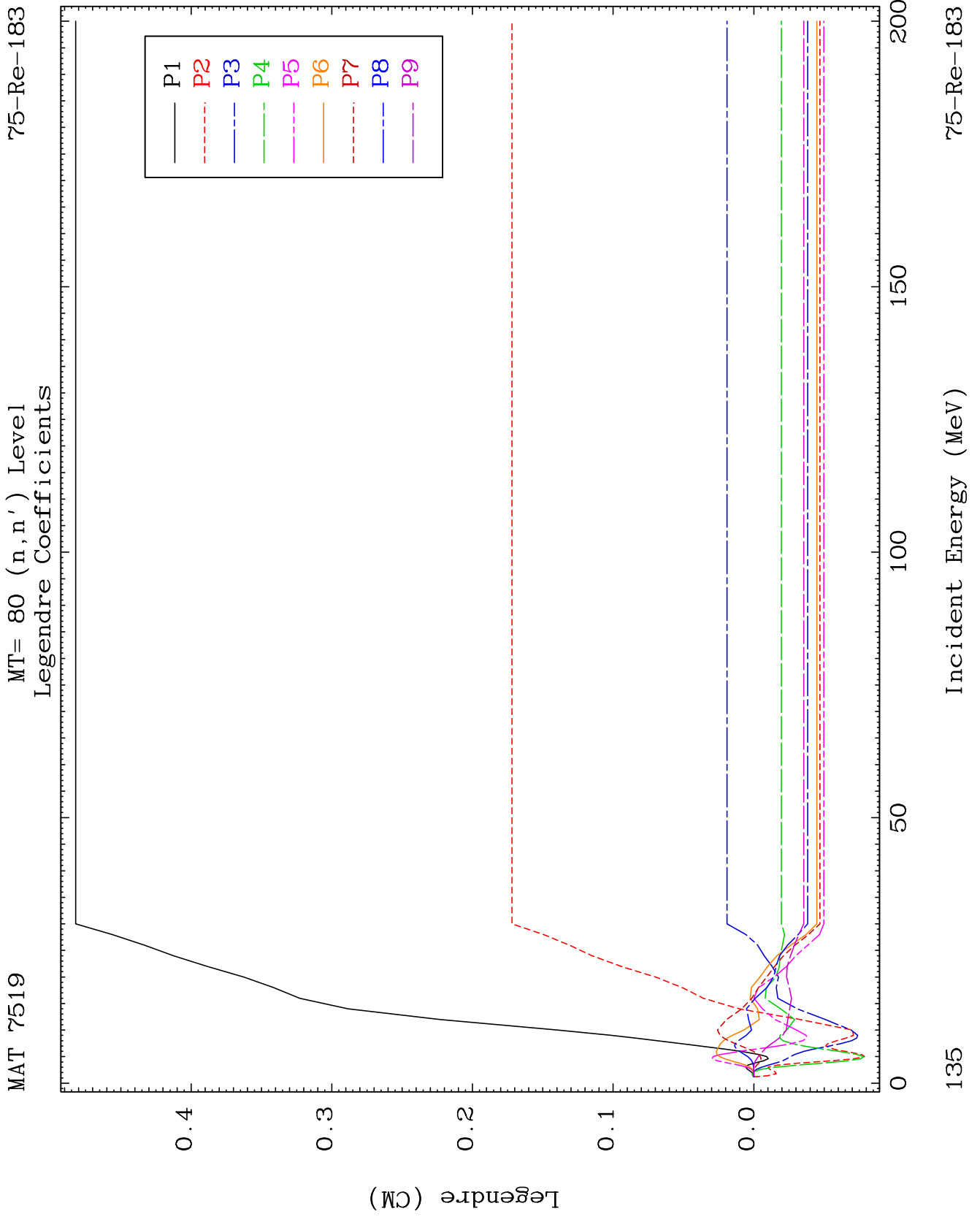
75-Re-183



134

Incident Energy (MeV)

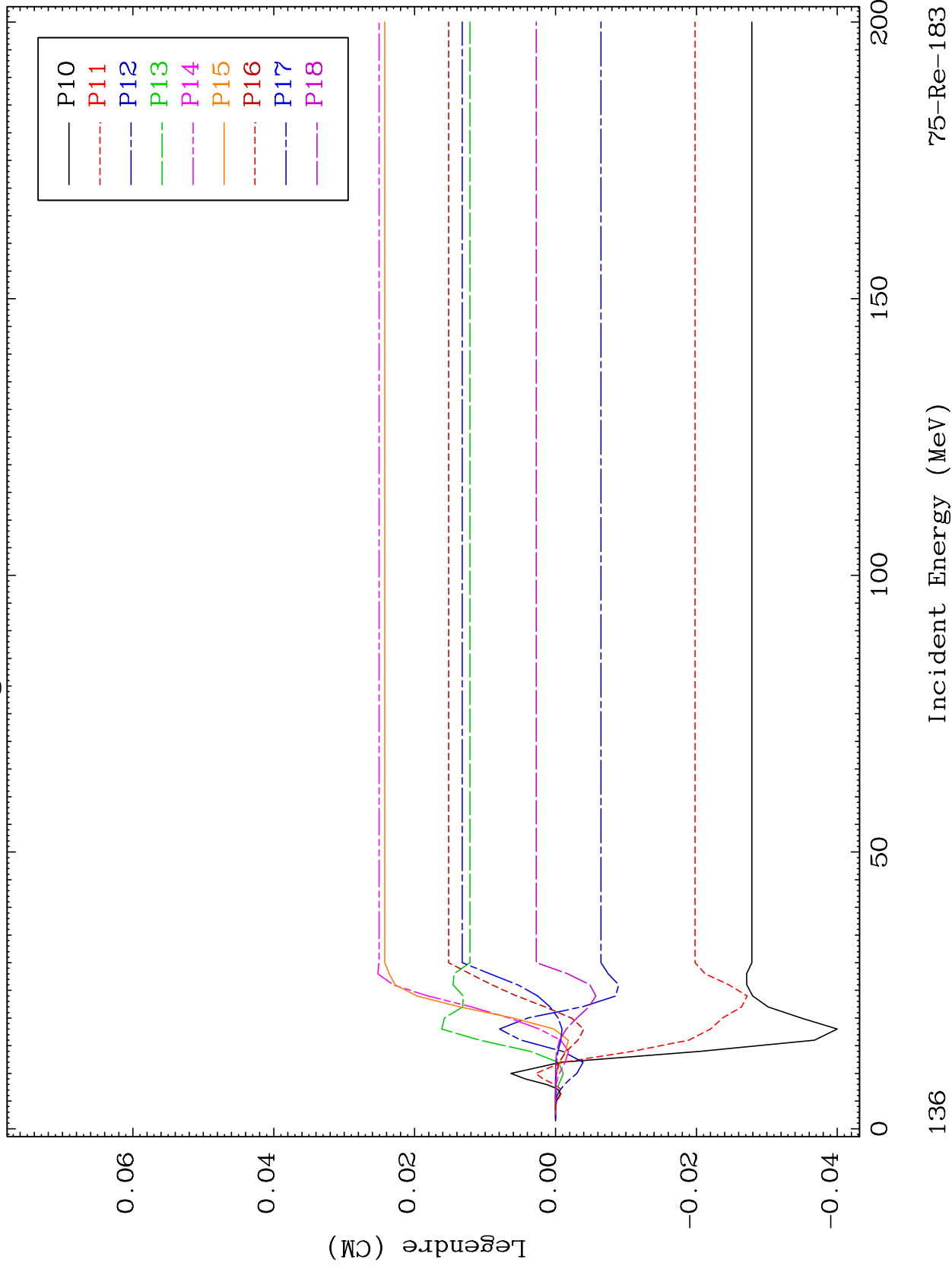
75-Re-183



MAT 7519

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

75-Re-183



136

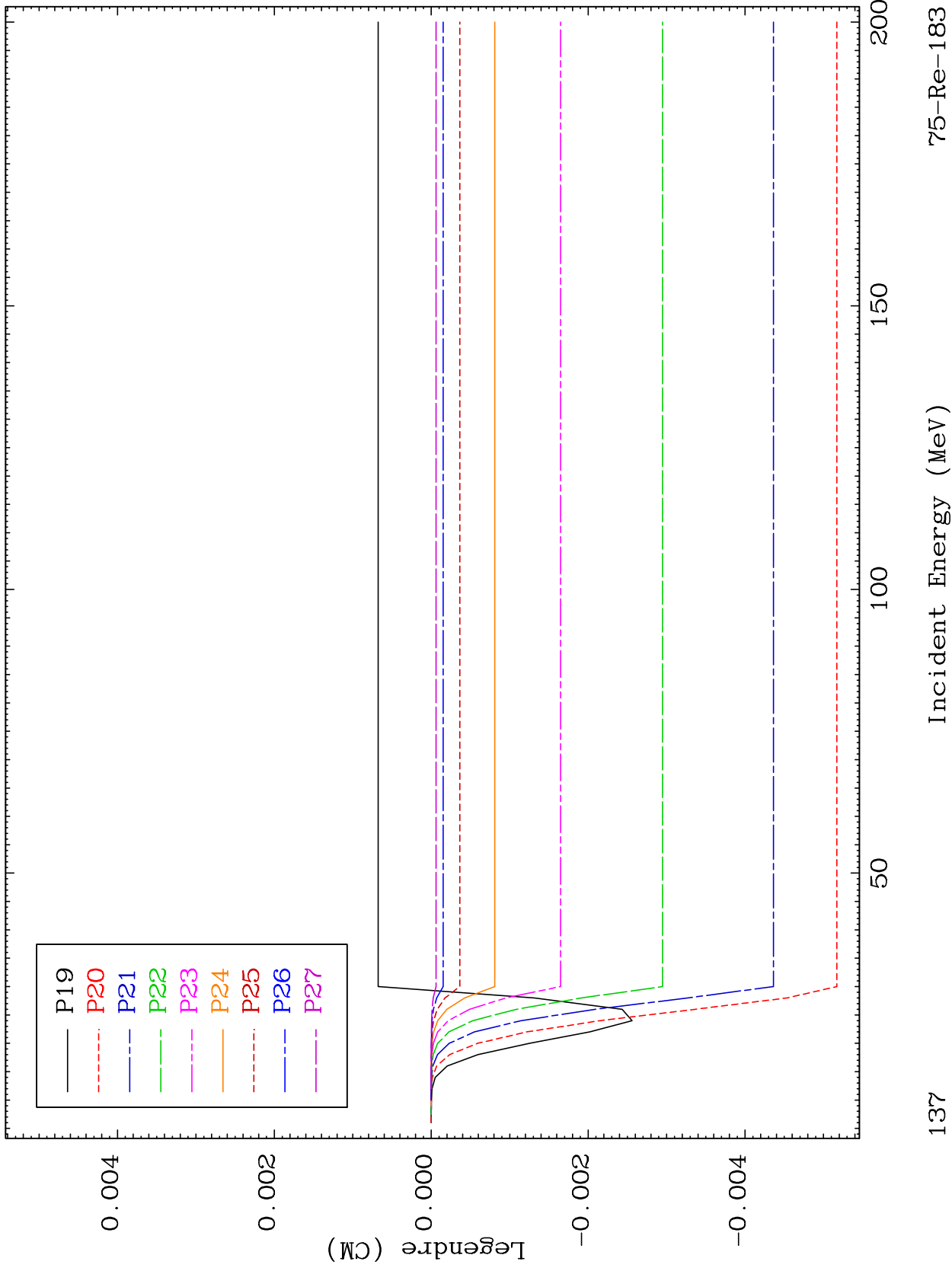
Incident Energy (MeV)

75-Re-183

MAT 7519

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

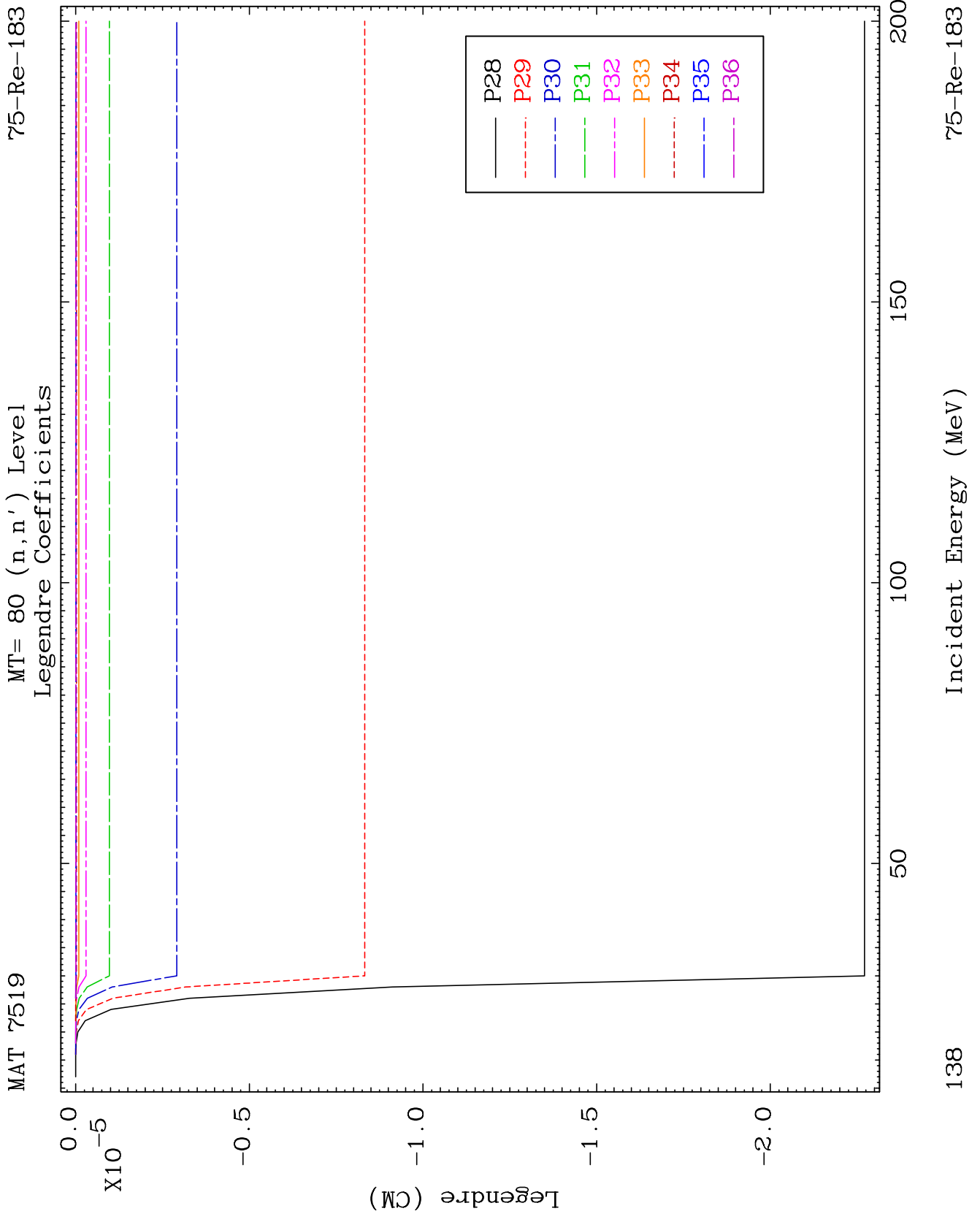
75-Re-183



137

Incident Energy (MeV)

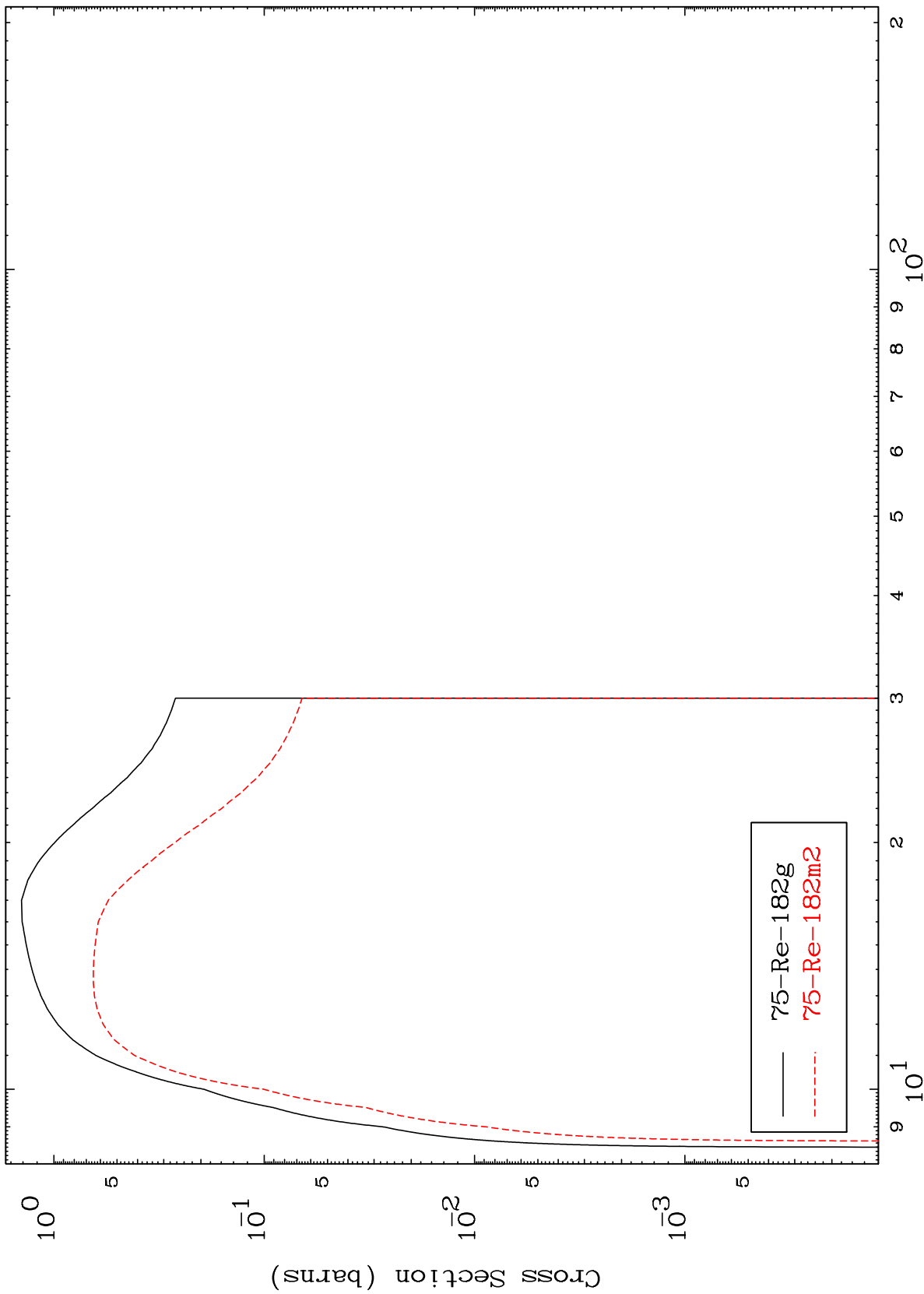
75-Re-183



MAT 7519

75-Re-183

(n,2n)
Radionuclide Production Cross Section



139

Incident Energy (MeV)

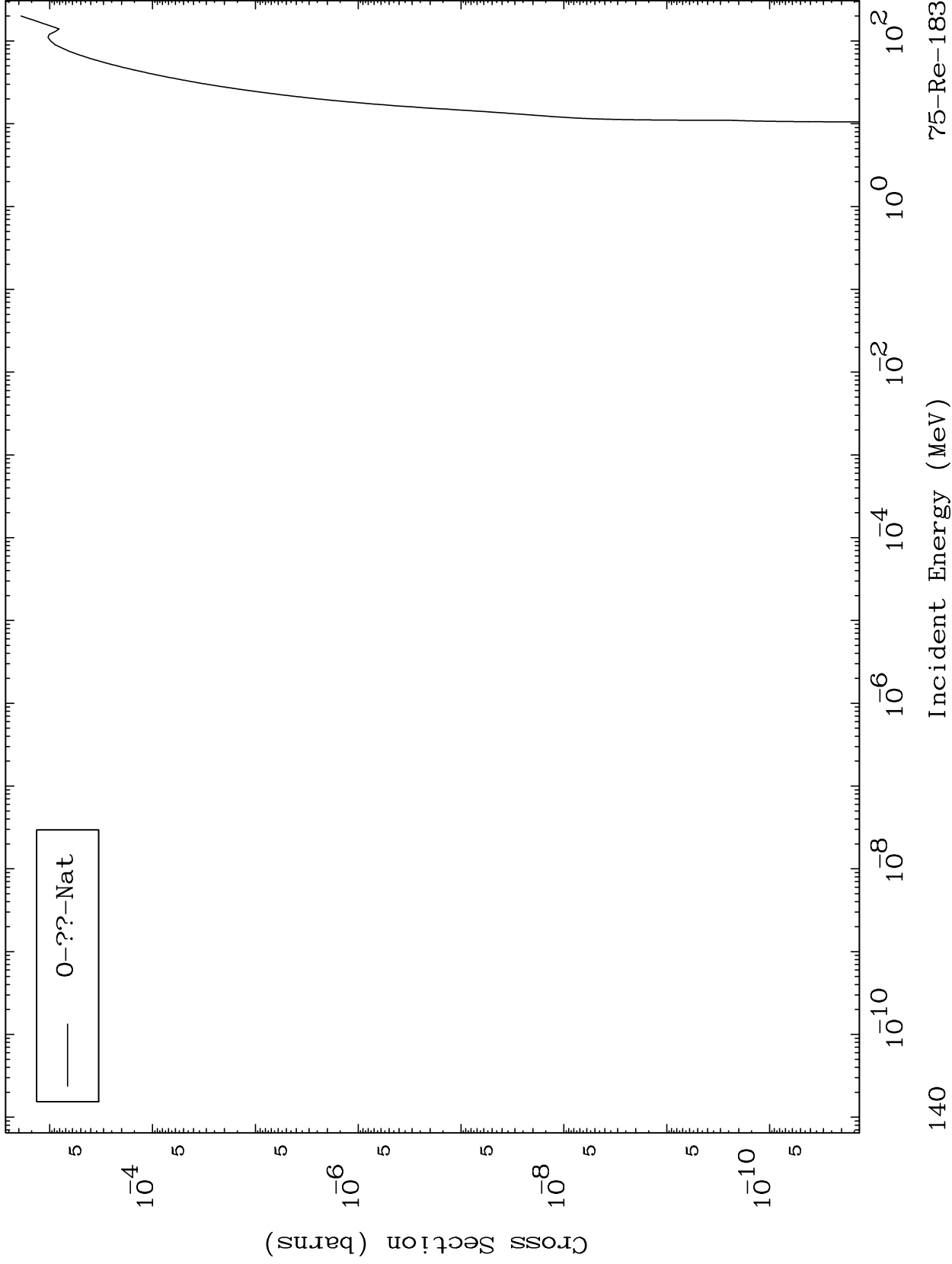
75-Re-183

MAT 7519

Fission

⁷⁵Re-183

Radionuclide Production Cross Section



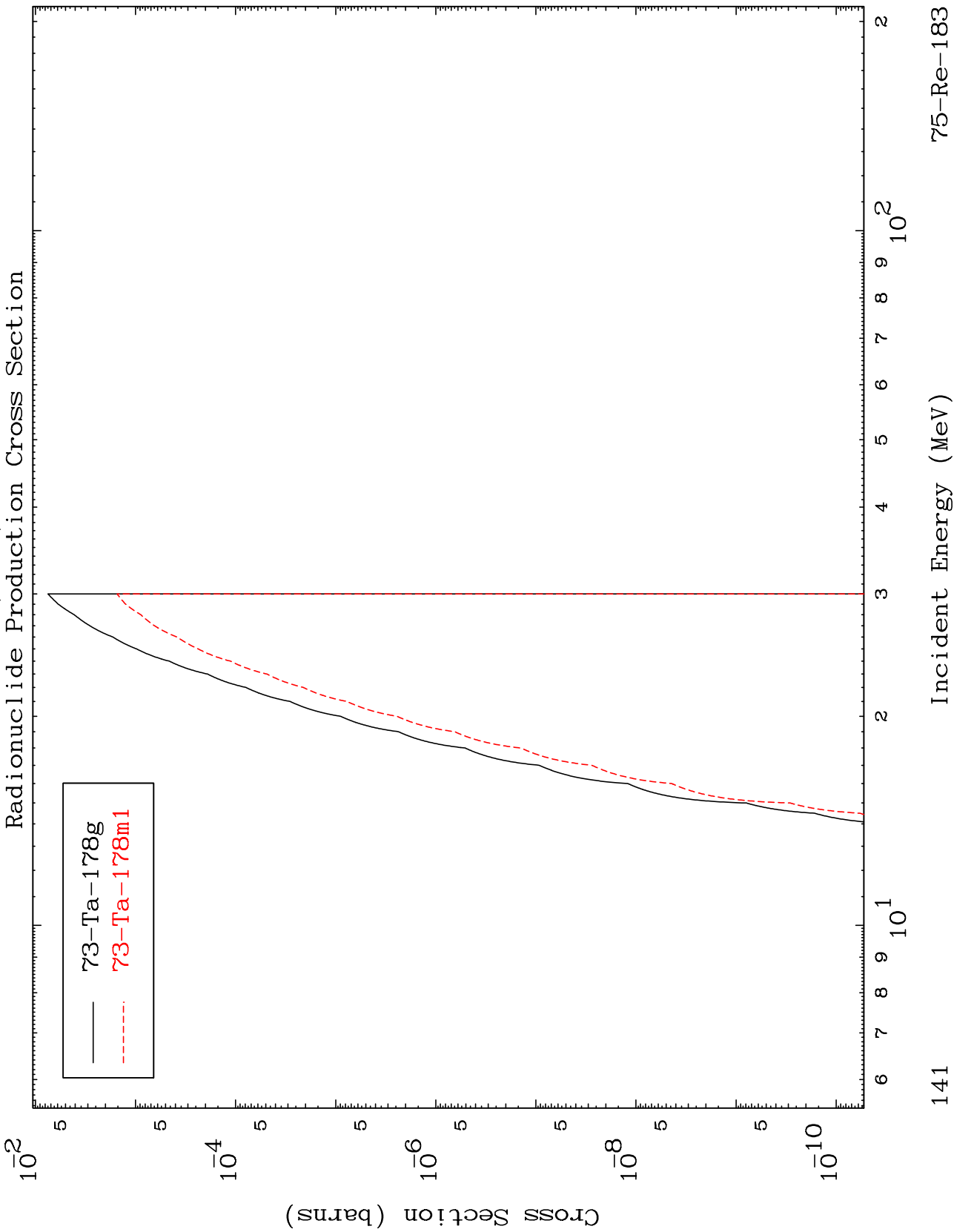
140

⁷⁵Re-183

MAT 7519

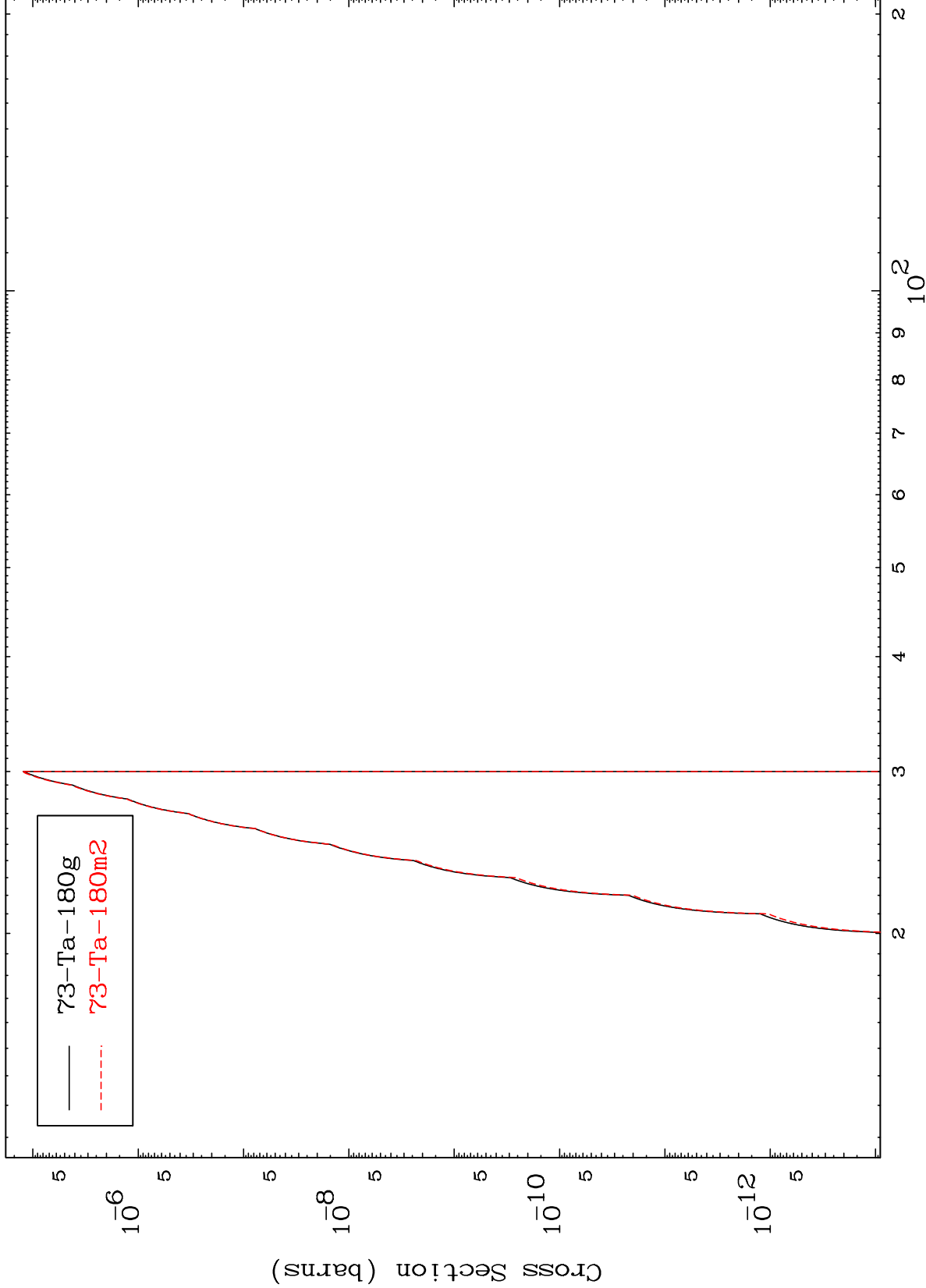
$(n, 2n) \alpha$

75-Re-183



141

Radionuclide Production Cross Section

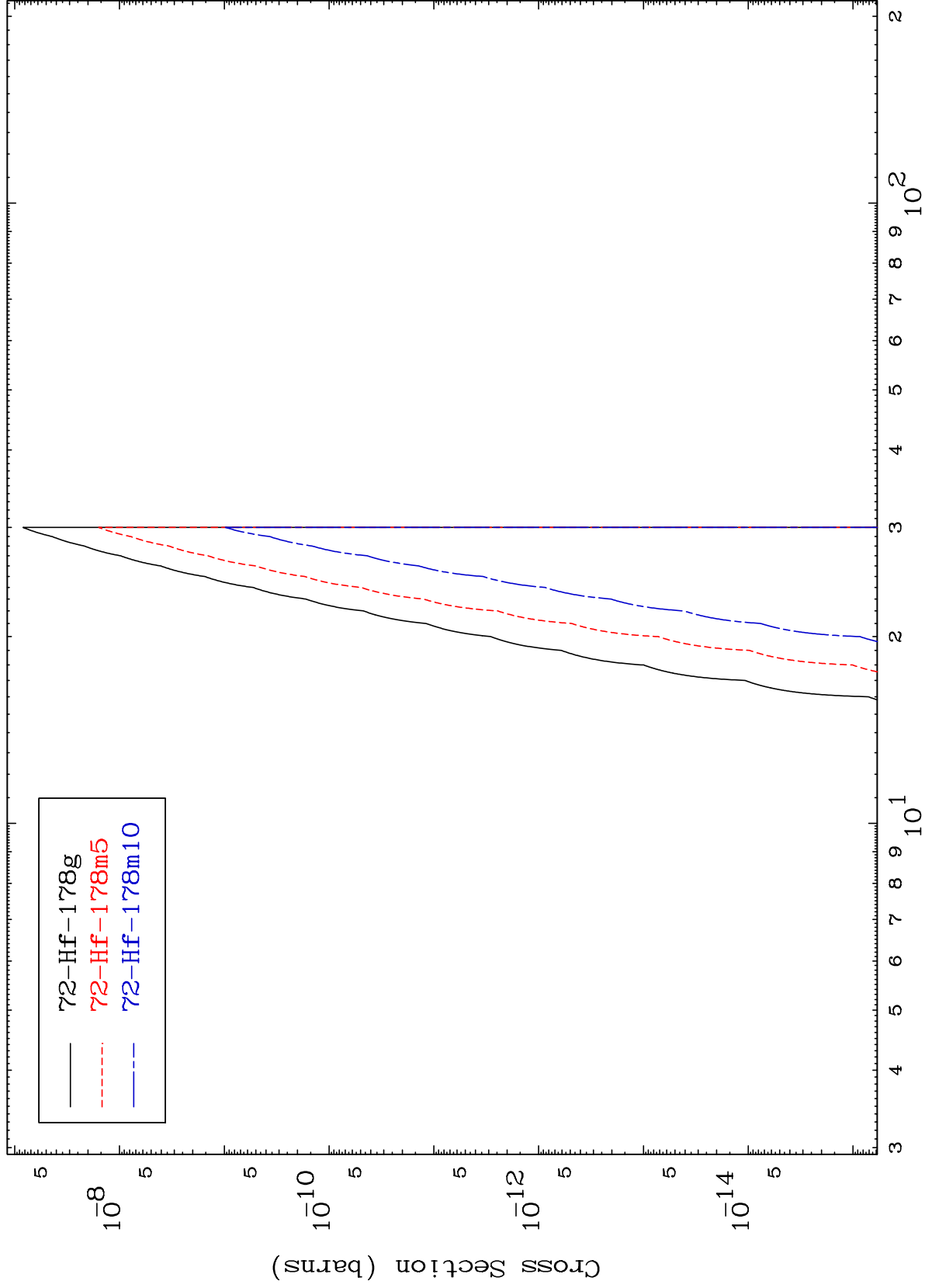


MAT 7519

(n,n') p α

75-Re-183

Radionuclide Production Cross Section



143

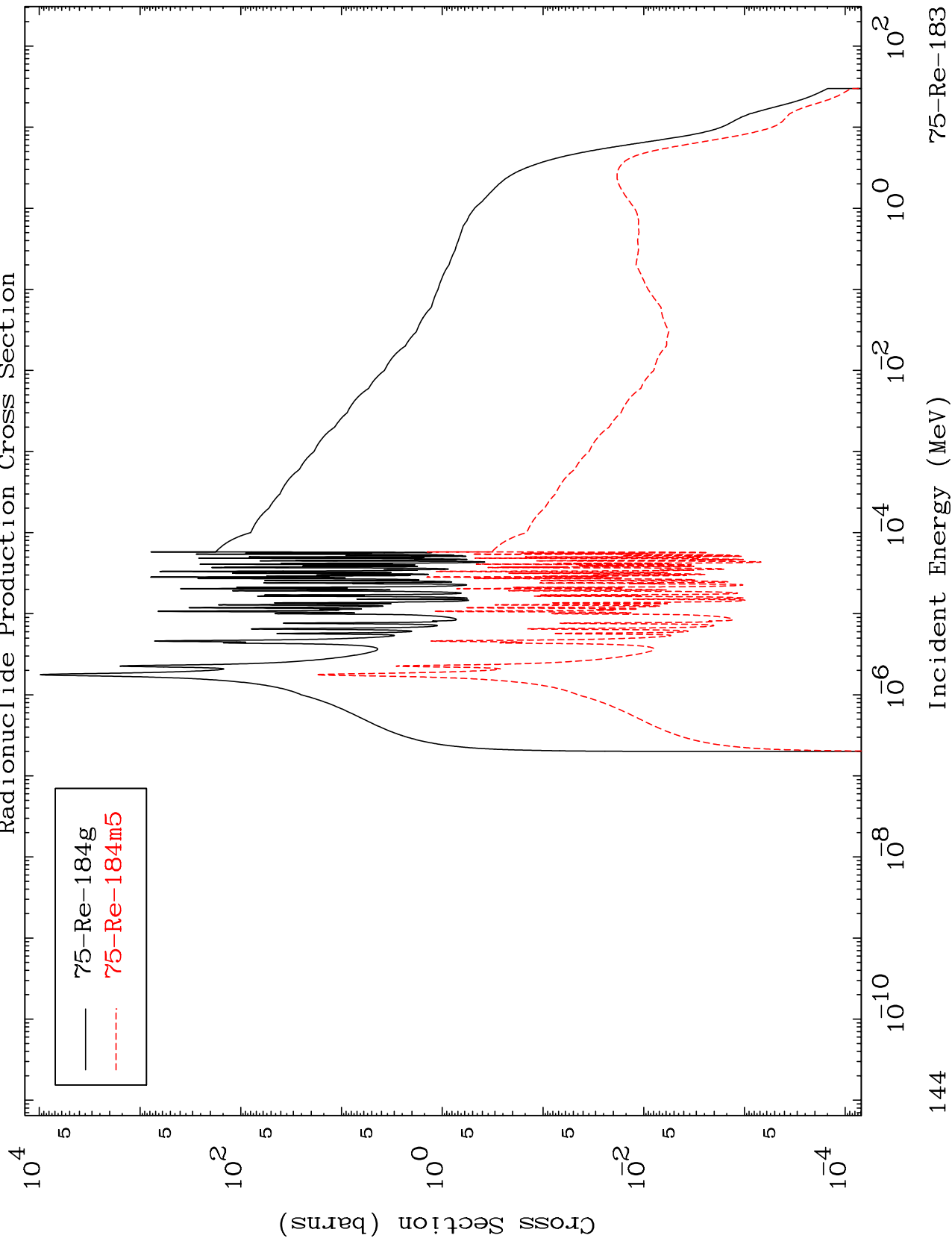
Incident Energy (MeV)

75-Re-183

MAT 7519

75-Re-183

Radionuclide Production Cross Section



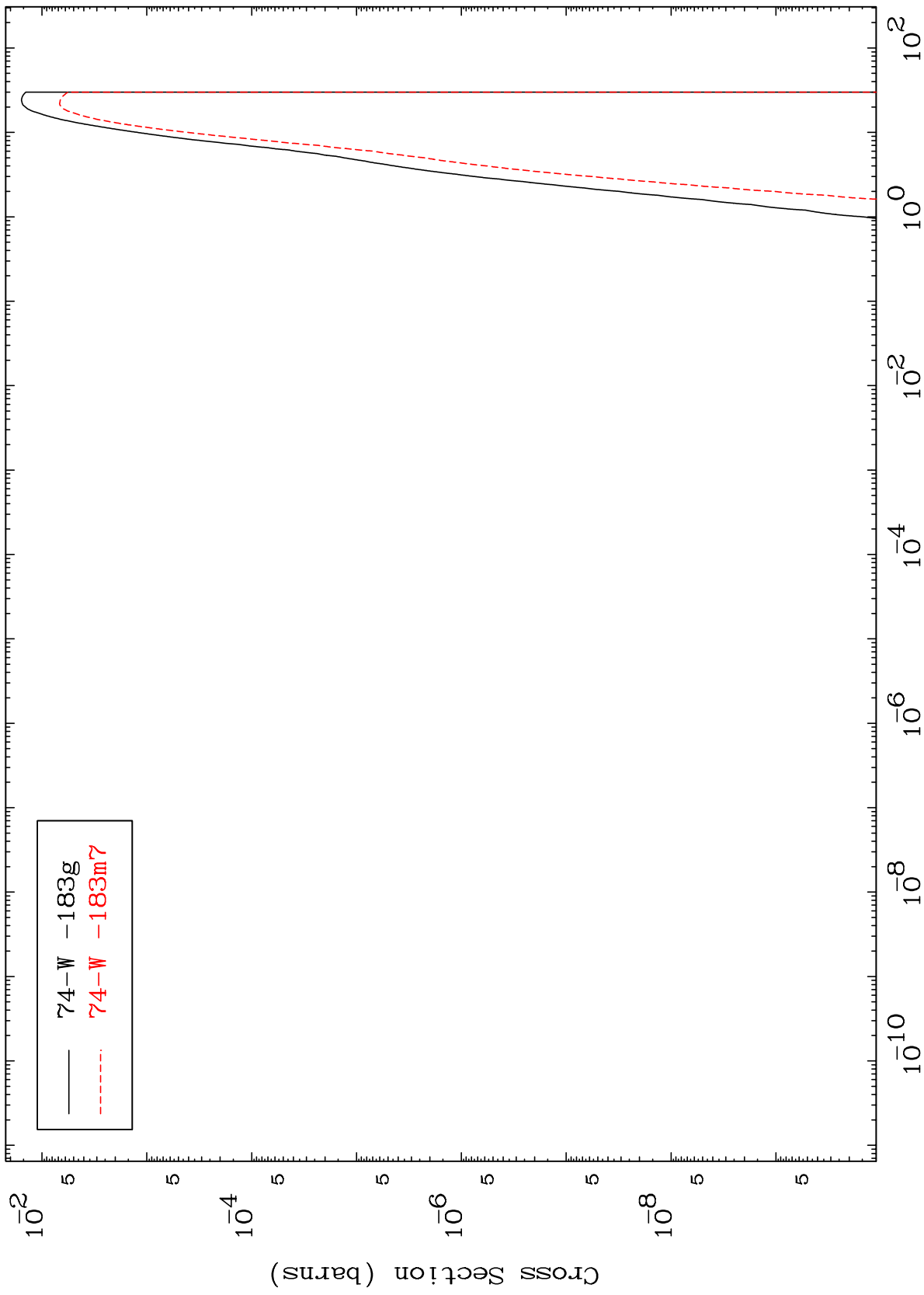
144

75-Re-183

MAT 7519

75-Re-183

(n,p)
Radionuclide Production Cross Section



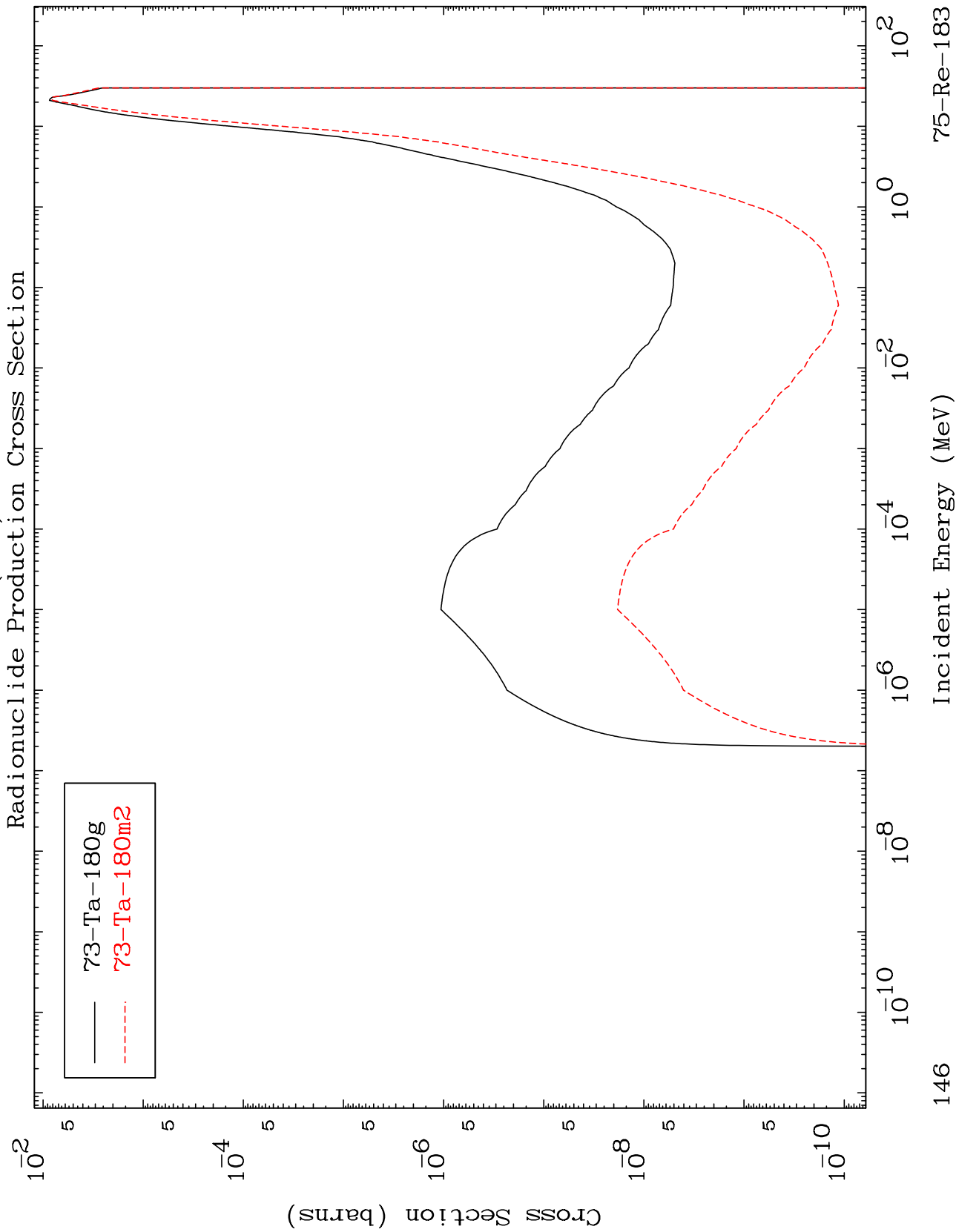
74-W-183g
74-W-183m7

145

75-Re-183

MAT 7519

75-Re-183

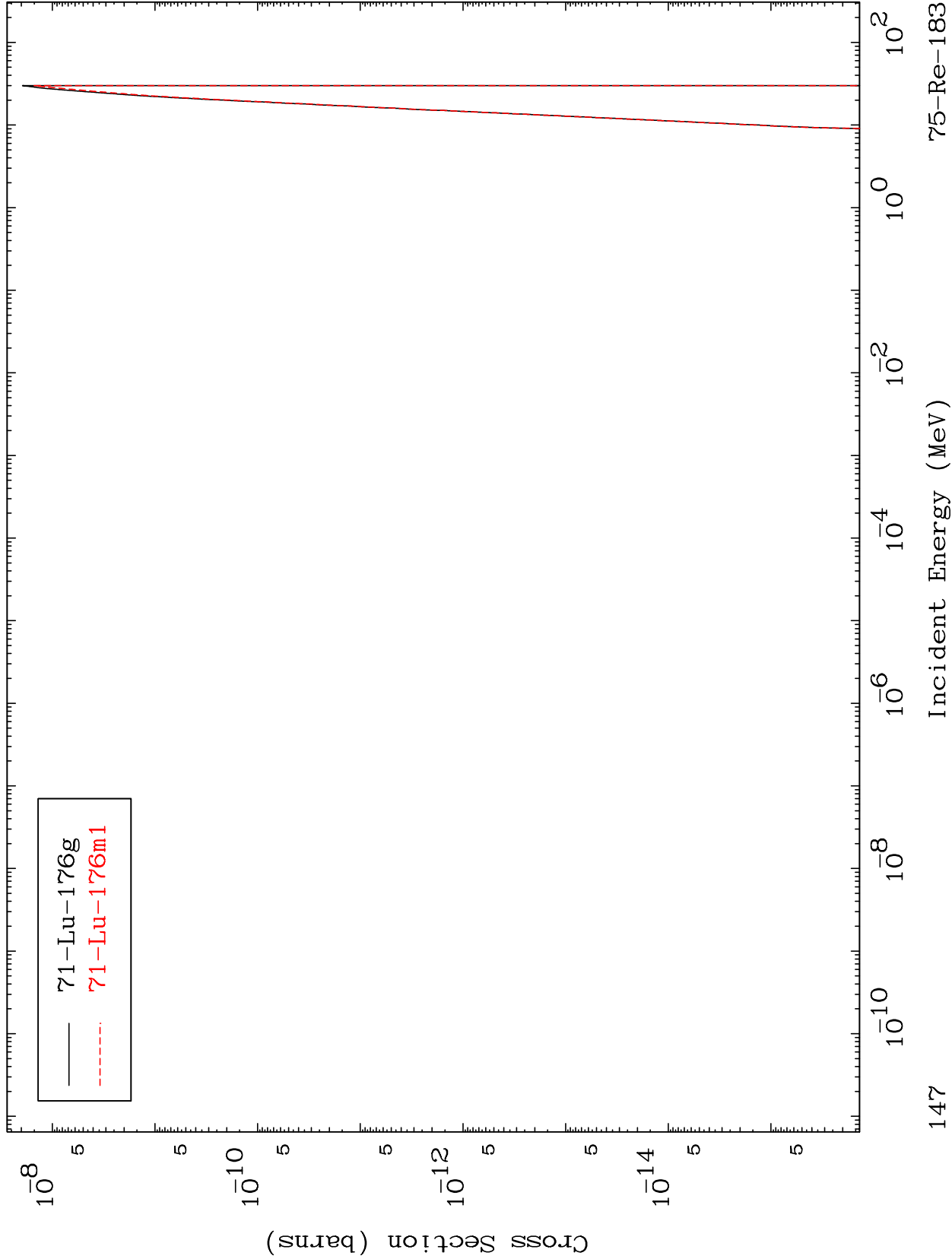


MAT 7519

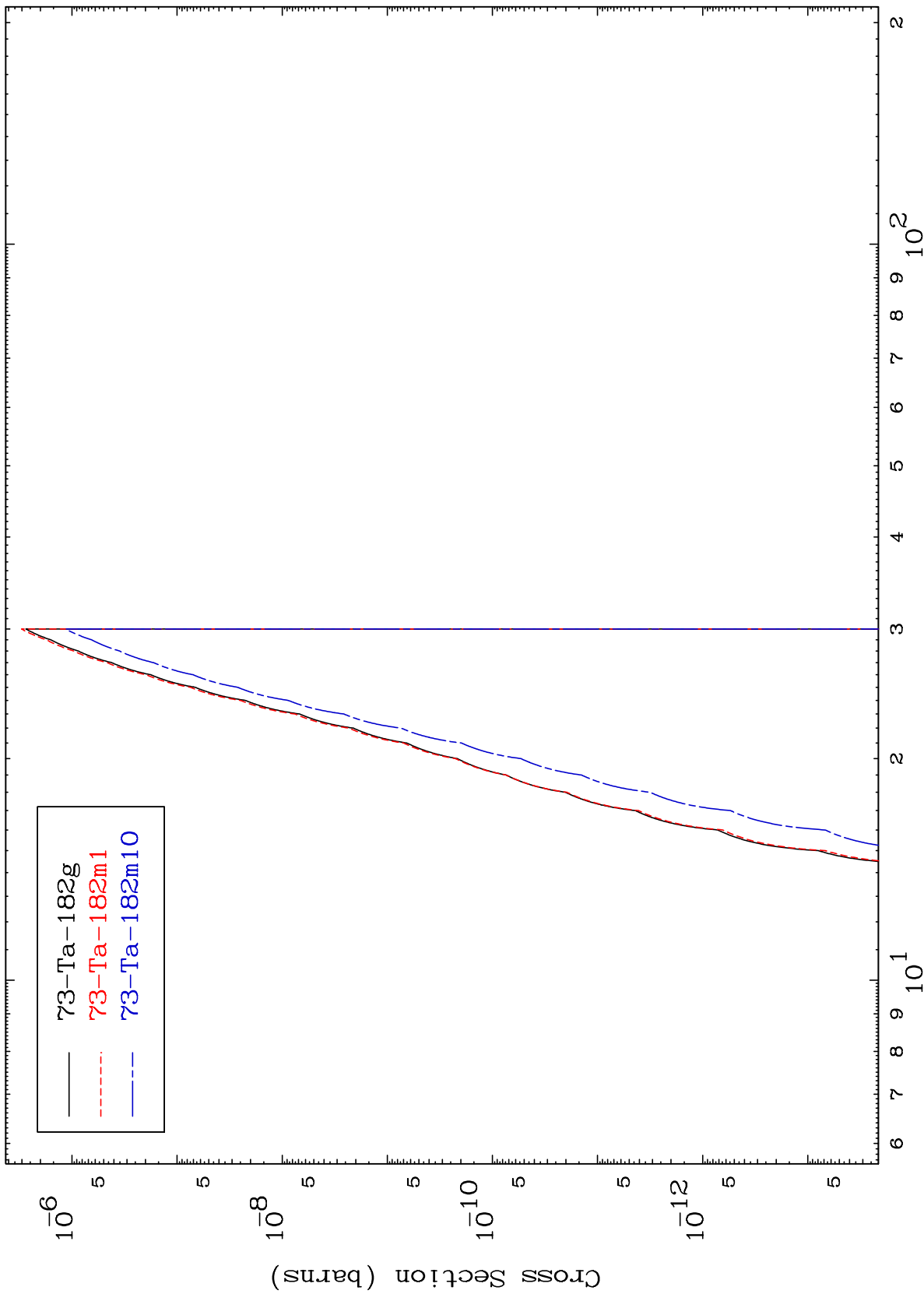
(n,2α)

75-Re-183

Radionuclide Production Cross Section



(n,2p)
Radionuclide Production Cross Section

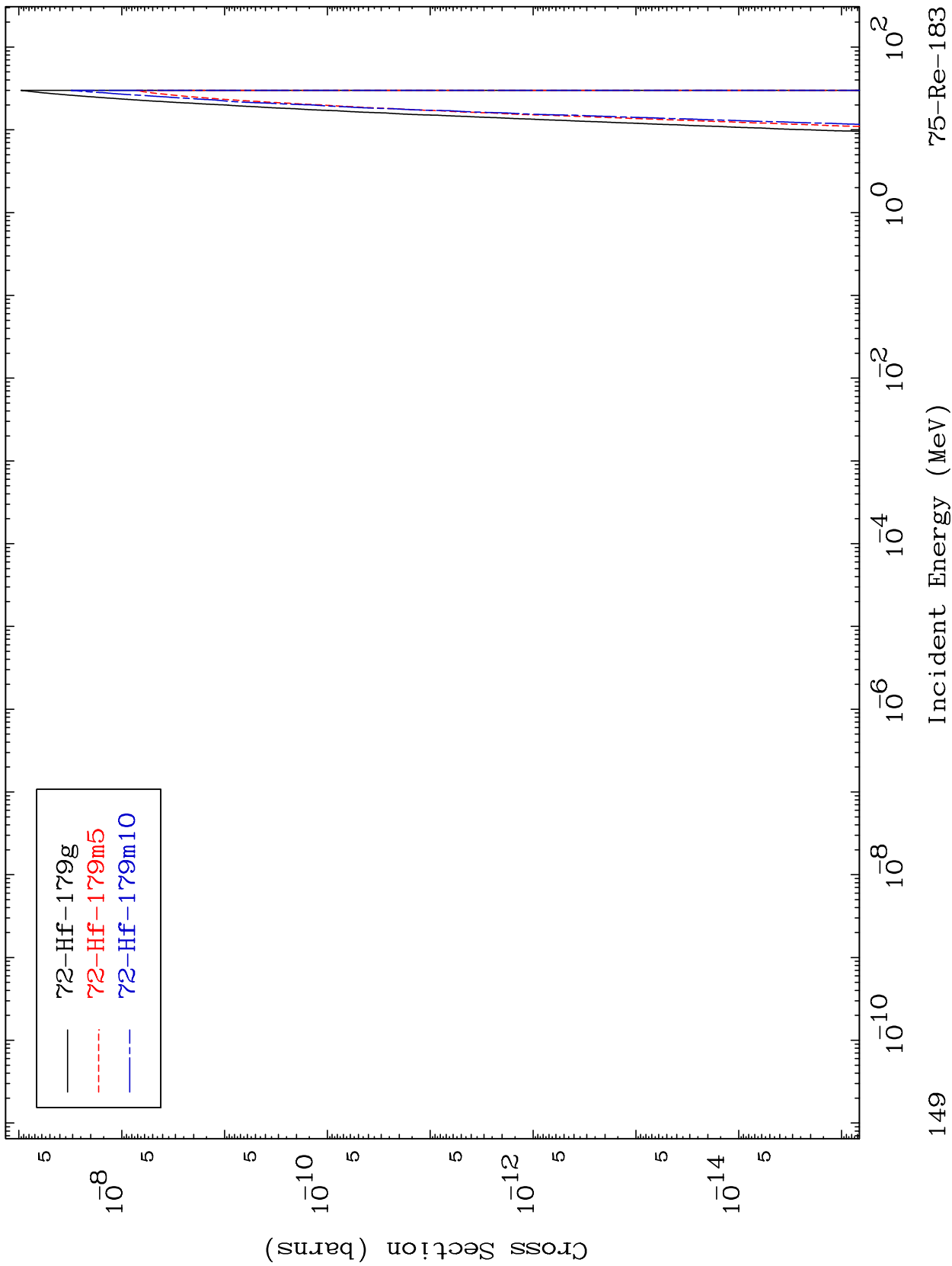


MAT 7519

(n,p) α

⁷⁵Re-183

Radionuclide Production Cross Section

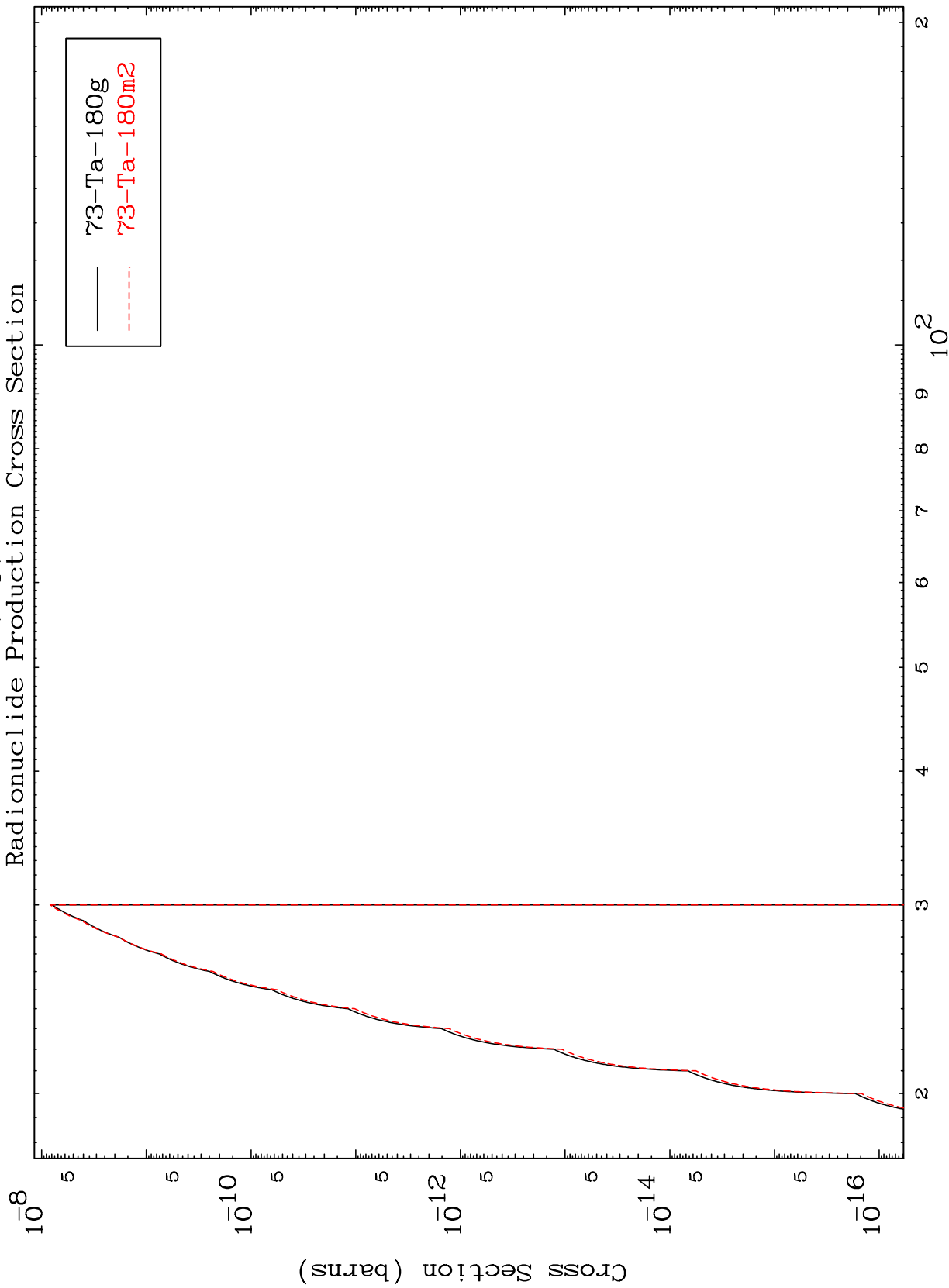


MAT 7519

(n,p) t

75-Re-183

Radionuclide Production Cross Section



150

Incident Energy (MeV)

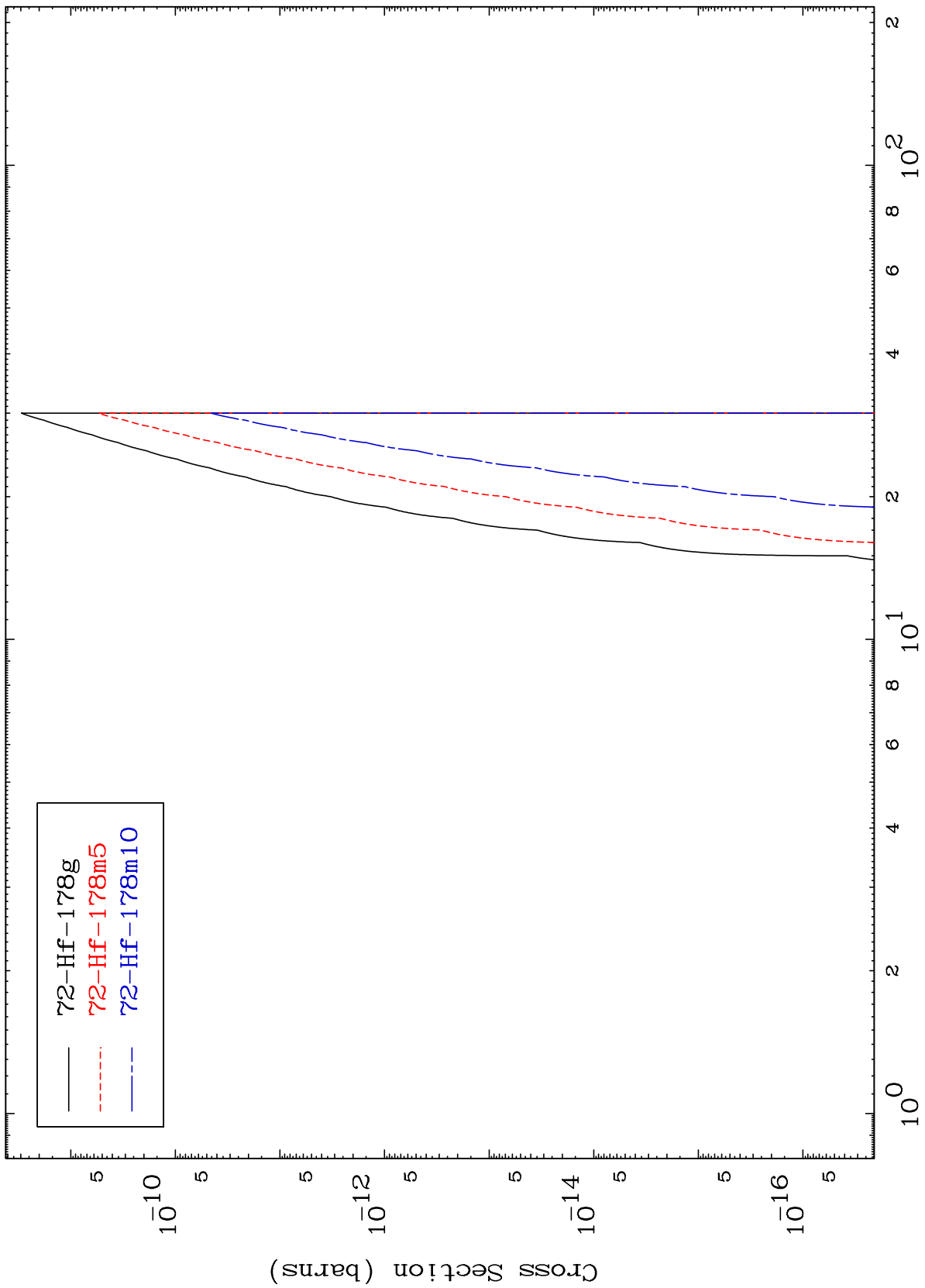
75-Re-183

MAT 7519

(n,d) α

75-Re-183

Radionuclide Production Cross Section



151

Incident Energy (MeV)

75-Re-183