

Program EVALPLOT
(Version 2021-1)

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

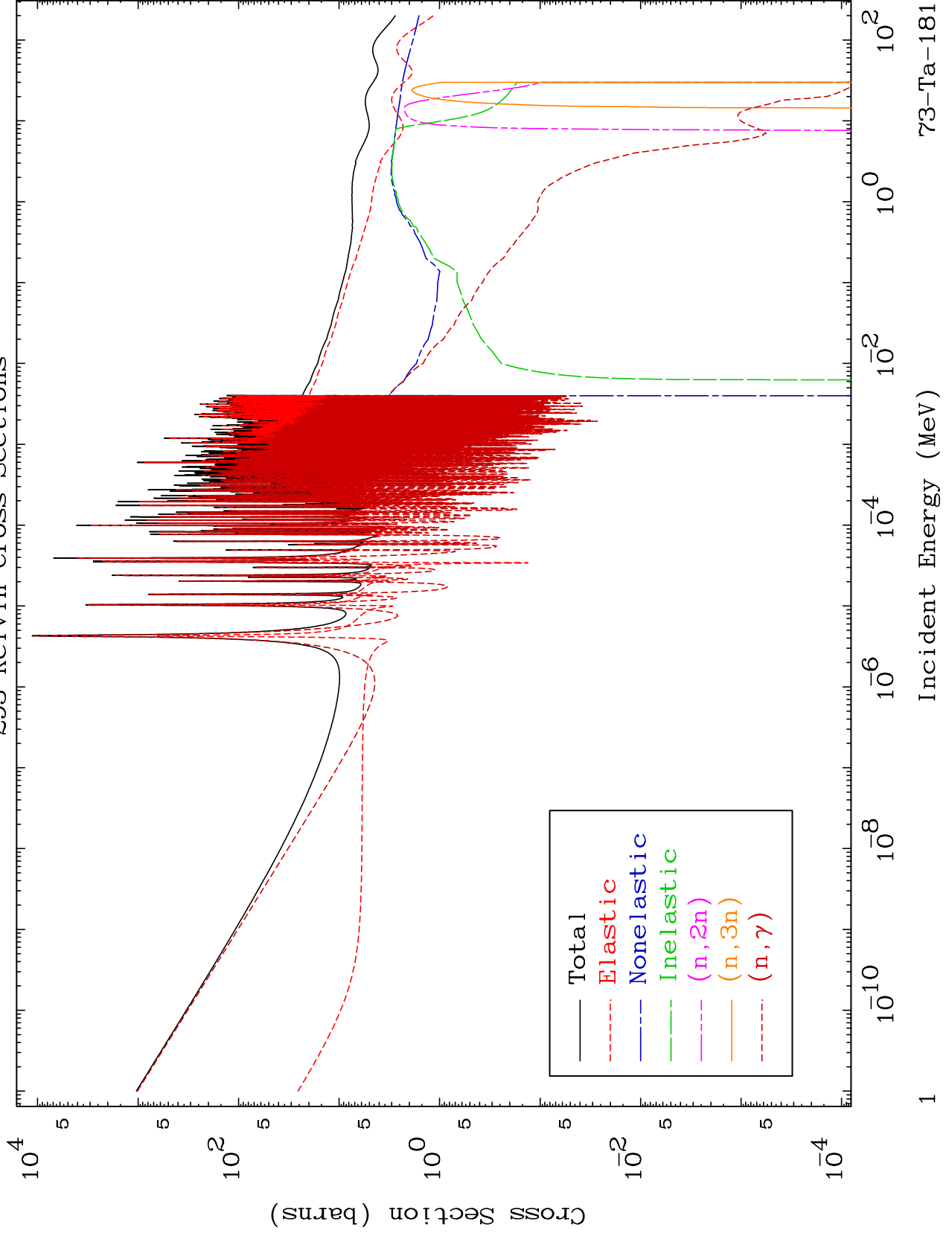
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7328

Neutron Major
293 Kelvin Cross Sections

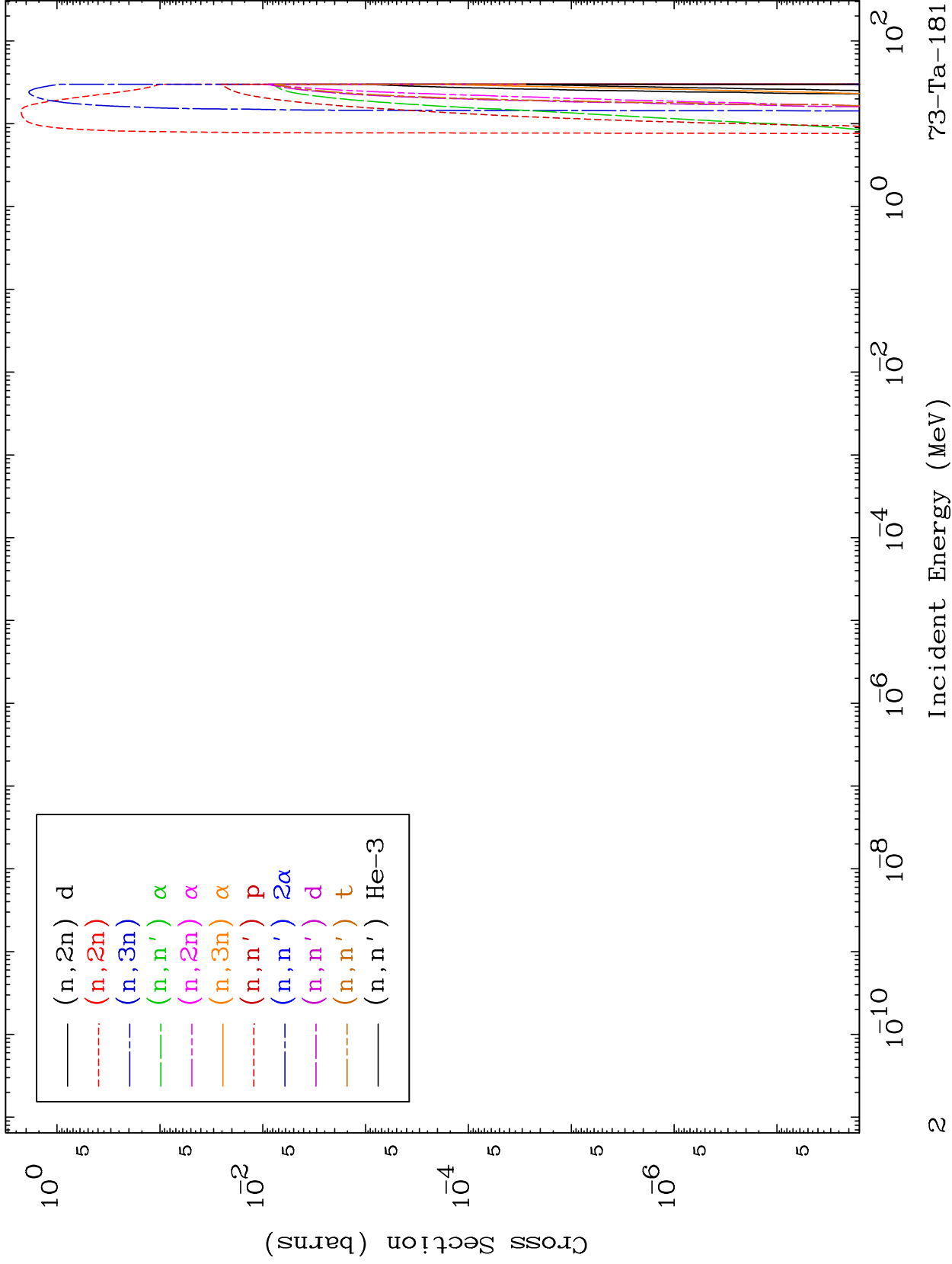
73-Ta-181



MAT 7328

Neutron Absorption
293 Kelvin Cross Sections

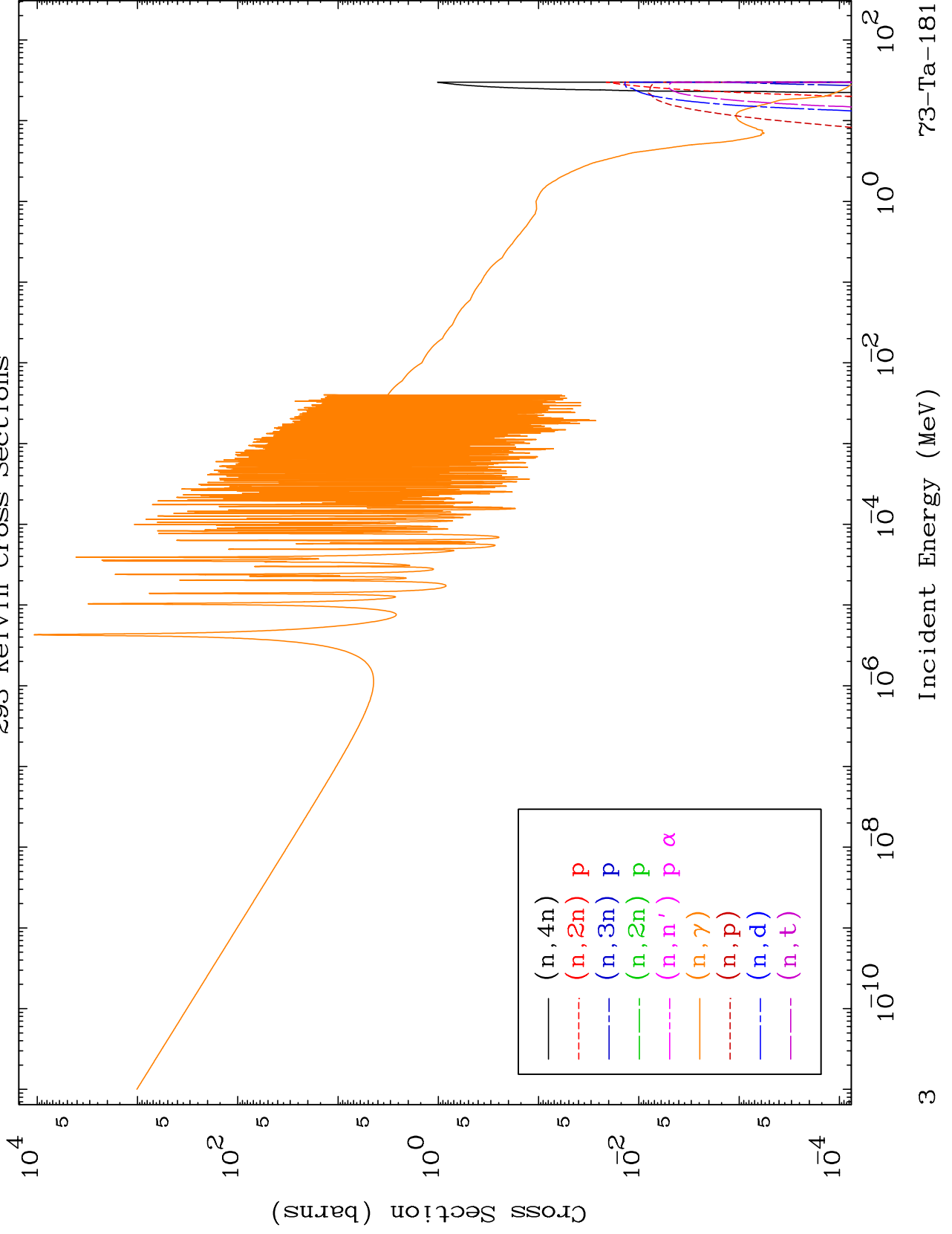
73-Ta-181



MAT 7328

Neutron Absorption
293 Kelvin Cross Sections

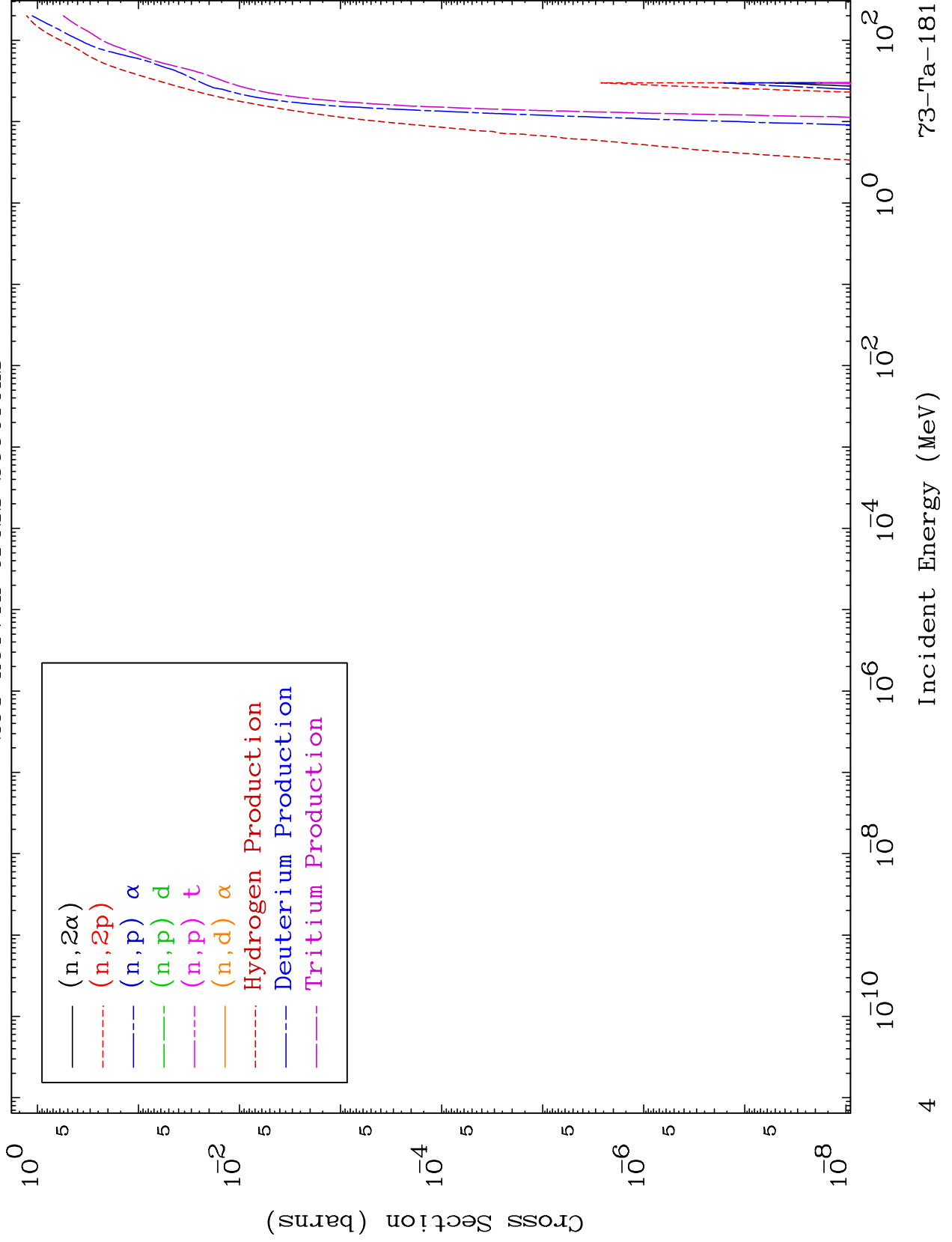
73-Ta-181



MAT 7328

Neutron Absorption
293 Kelvin Cross Sections

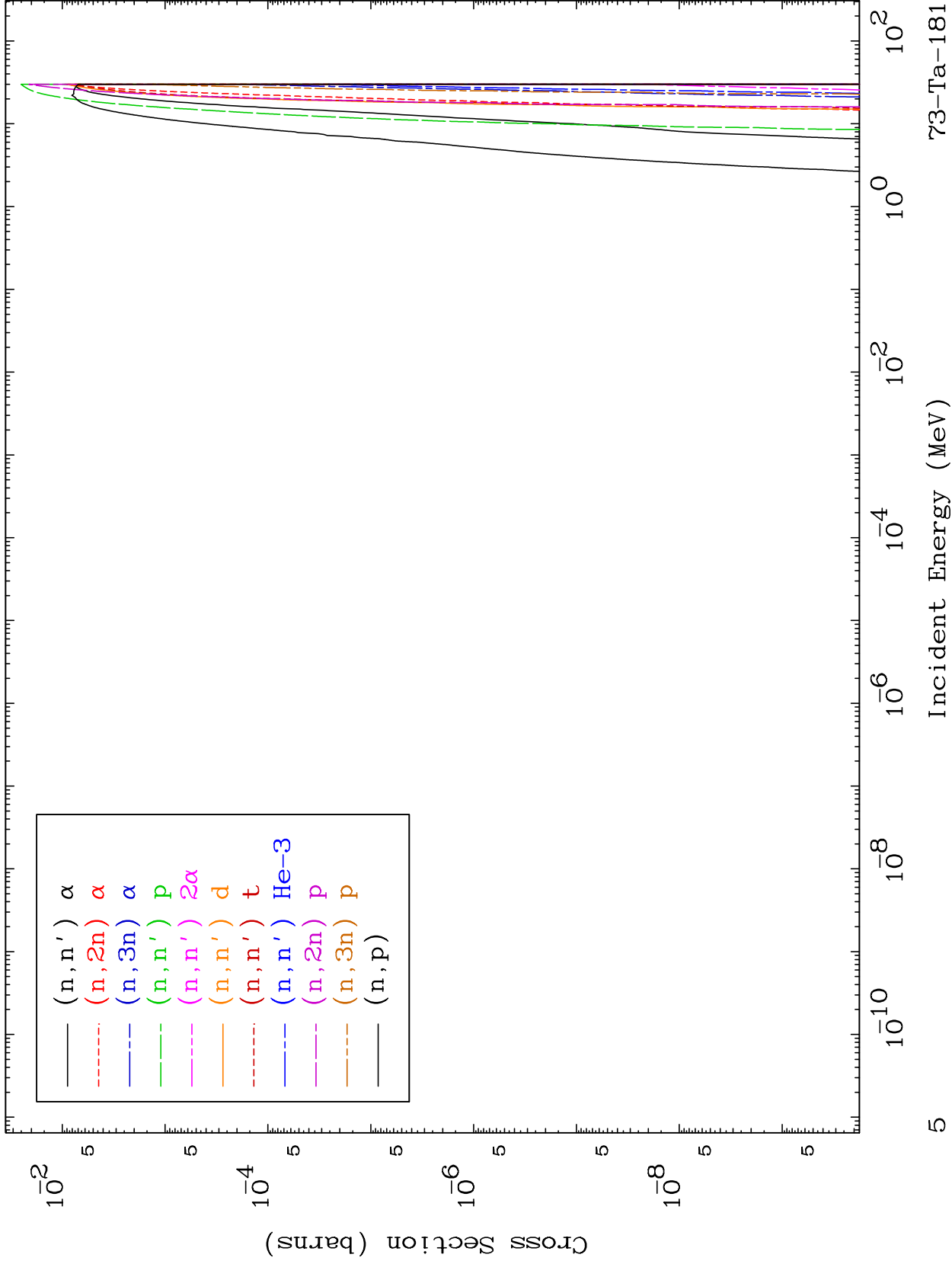
73-Ta-181



MAT 7328

Charged Particle
293 Kelvin Cross Sections

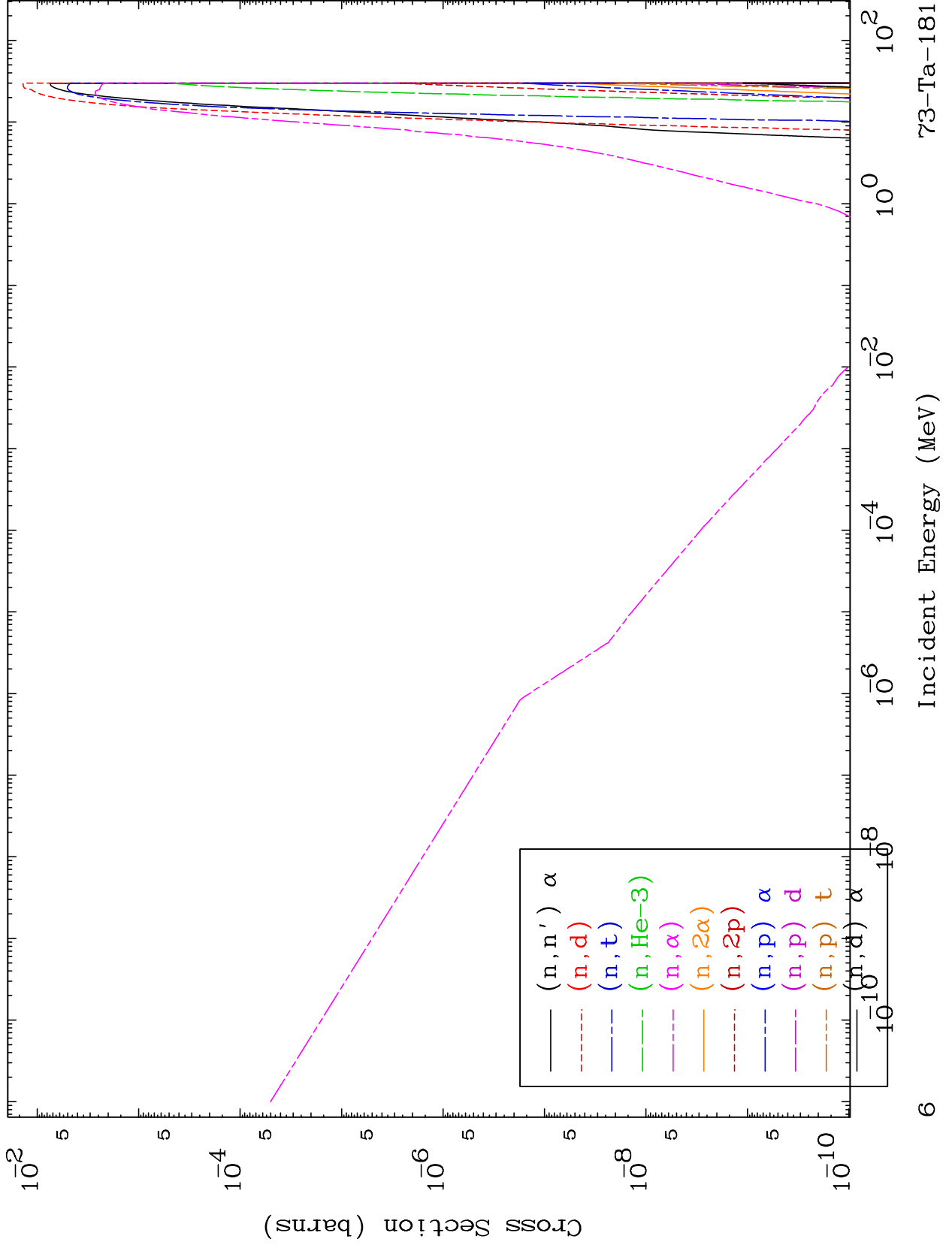
73-Ta-181



MAT 7328

Charged Particle
293 Kelvin Cross Sections

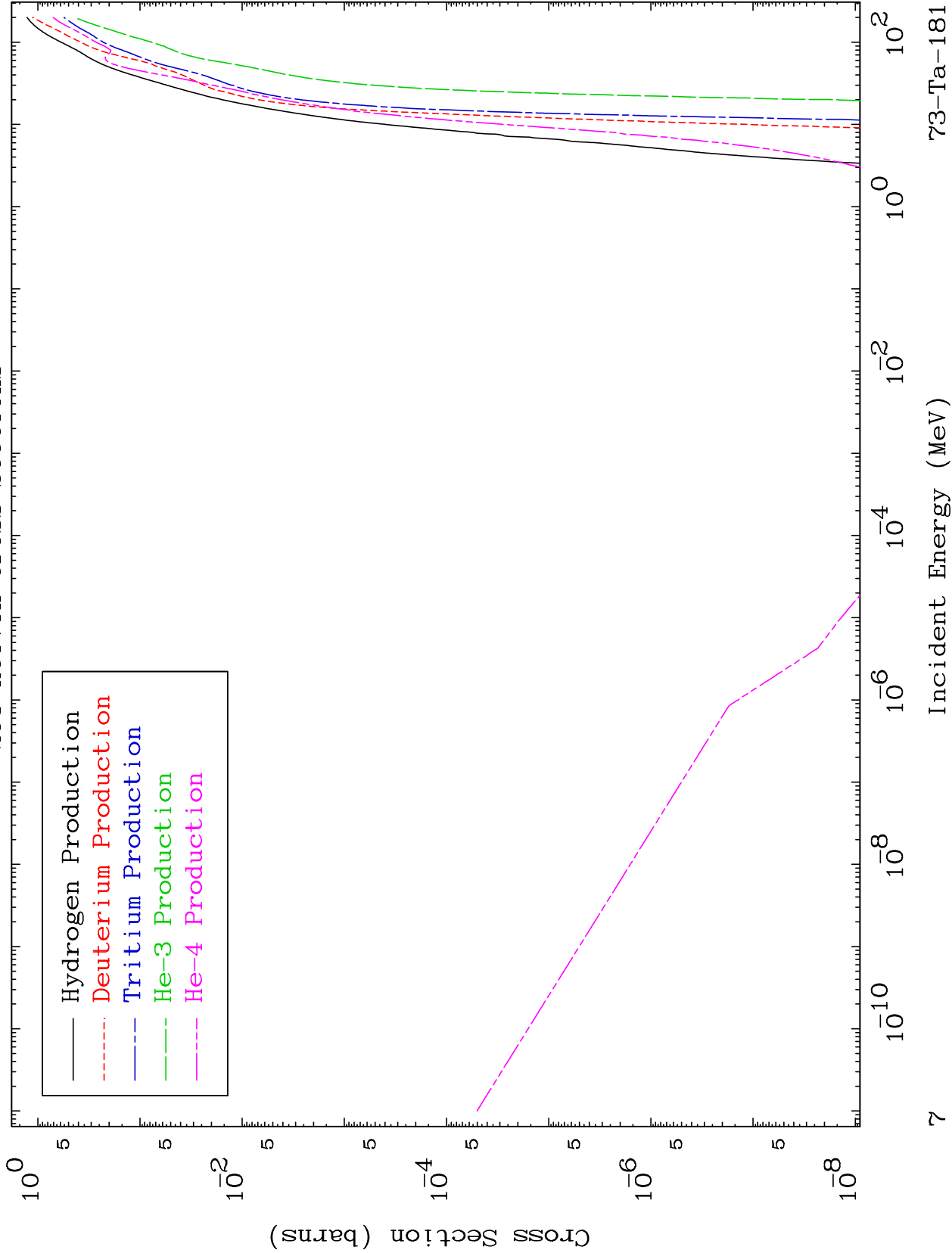
73-Ta-181

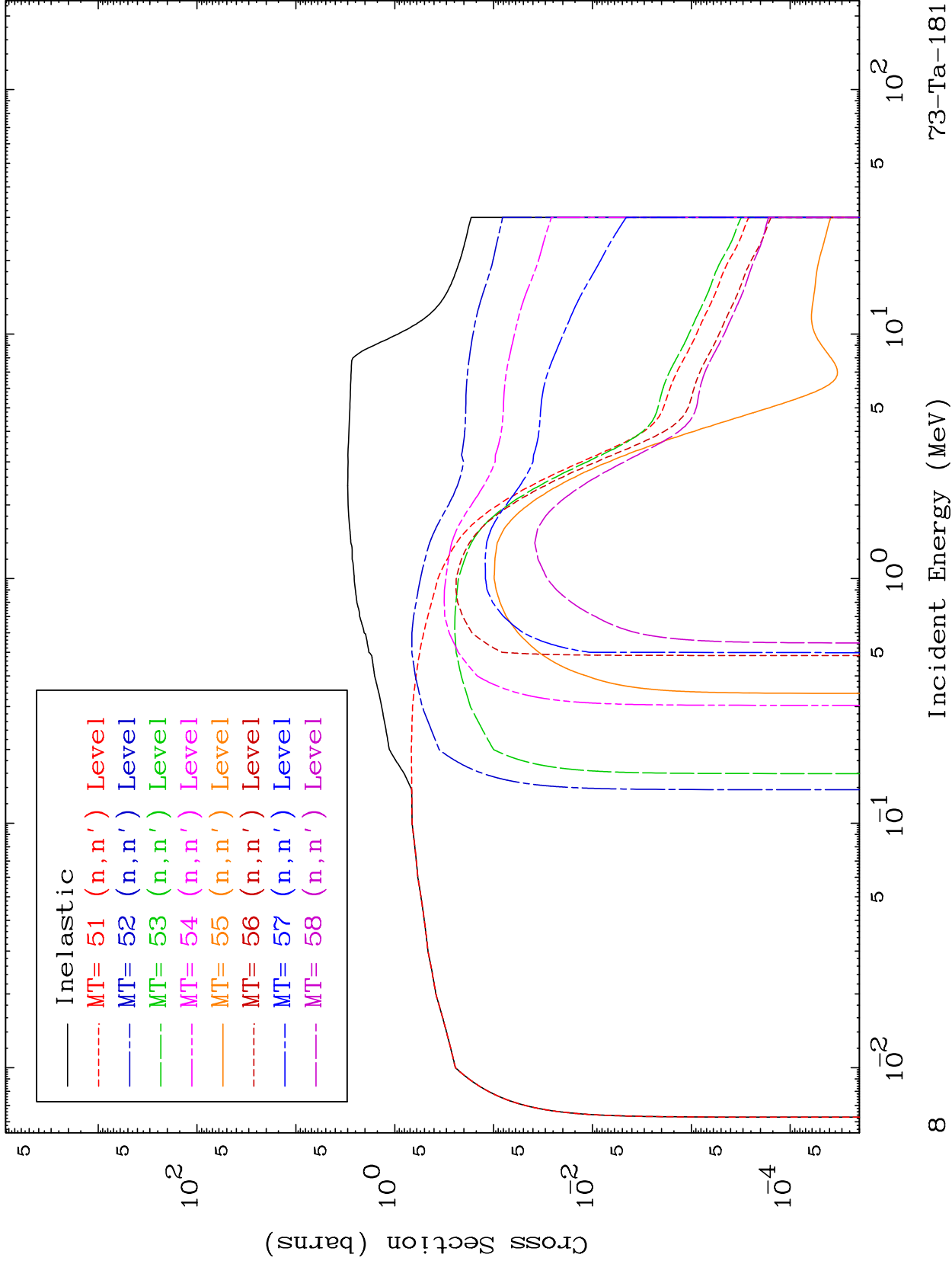


MAT 7328

Particle Production
293 Kelvin Cross Sections

73-Ta-181

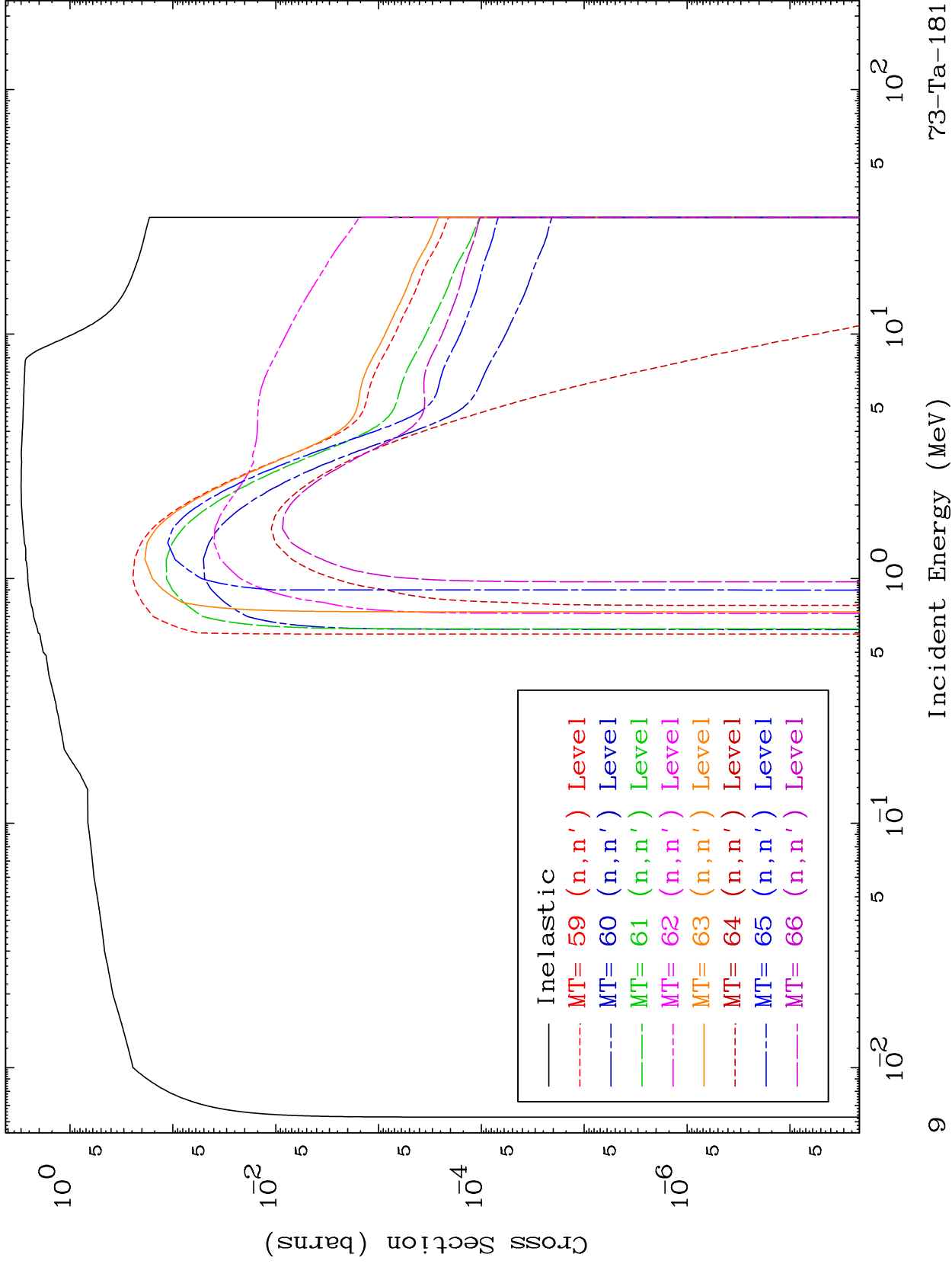




MAT 7328

(n,n') Levels
293 Kelvin Cross Sections

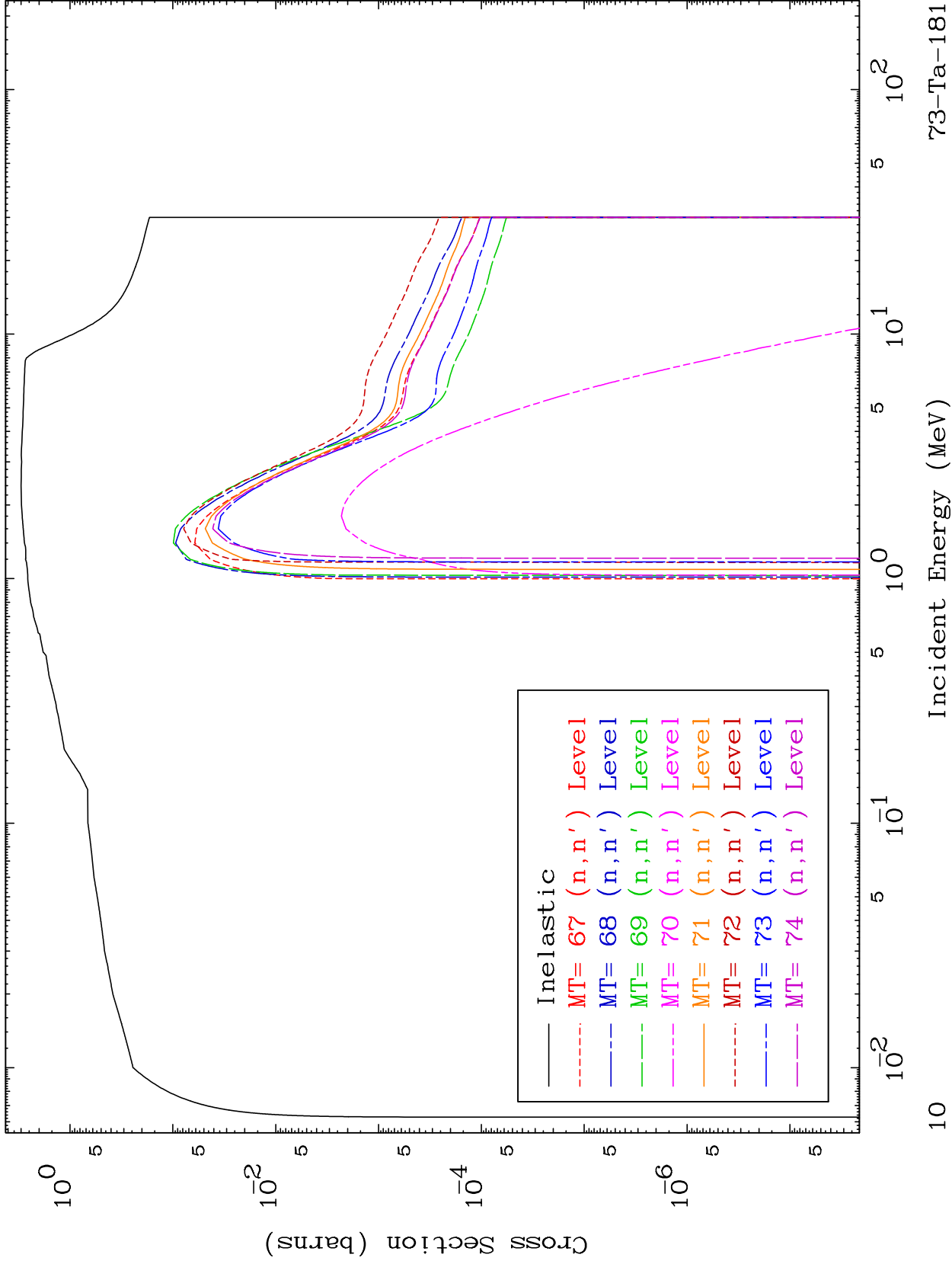
73-Ta-181



MAT 7328

(n,n') Levels
293 Kelvin Cross Sections

73-Ta-181



10

5

10⁻¹

5

10⁰

5

10¹

5

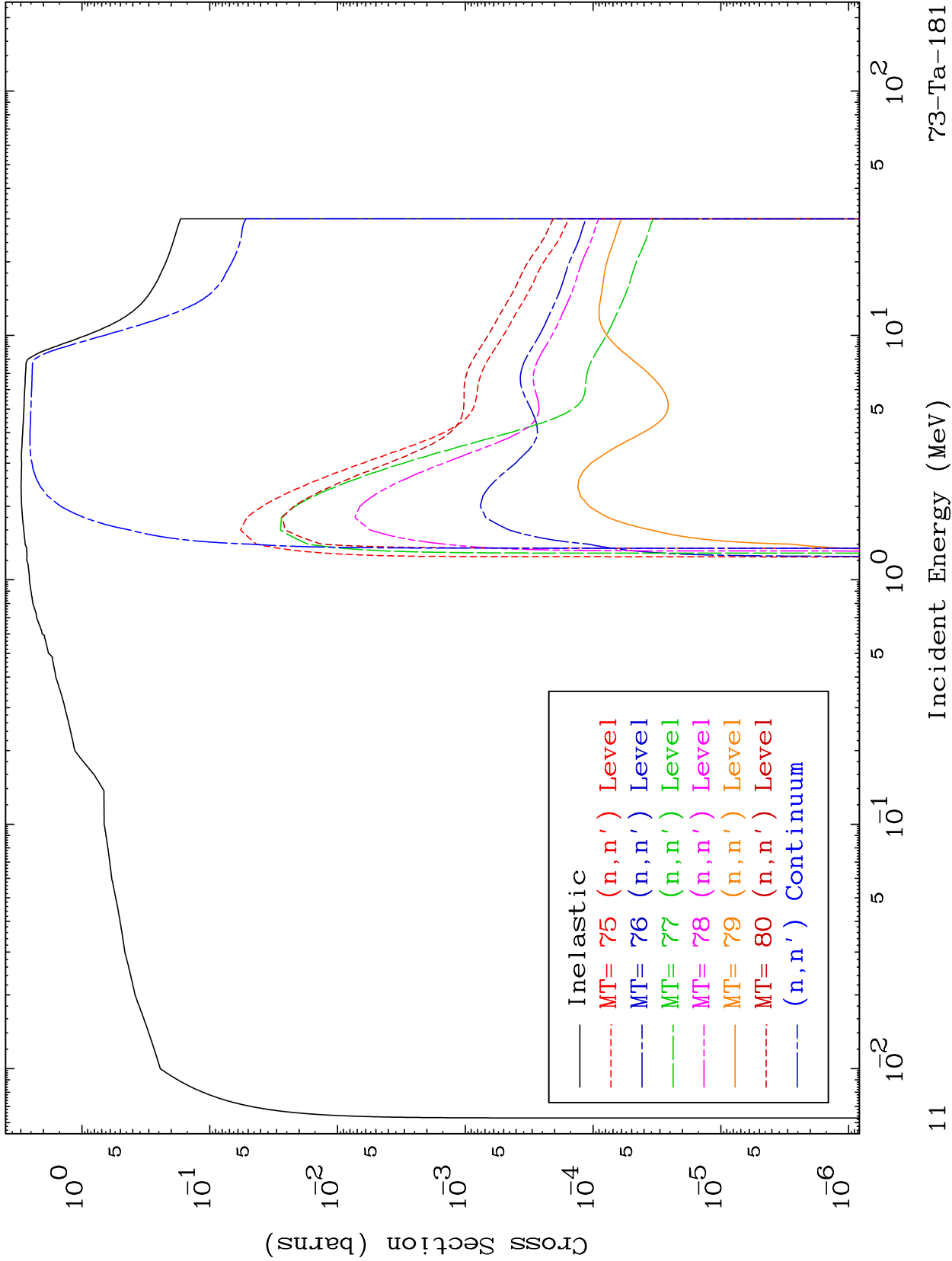
10²

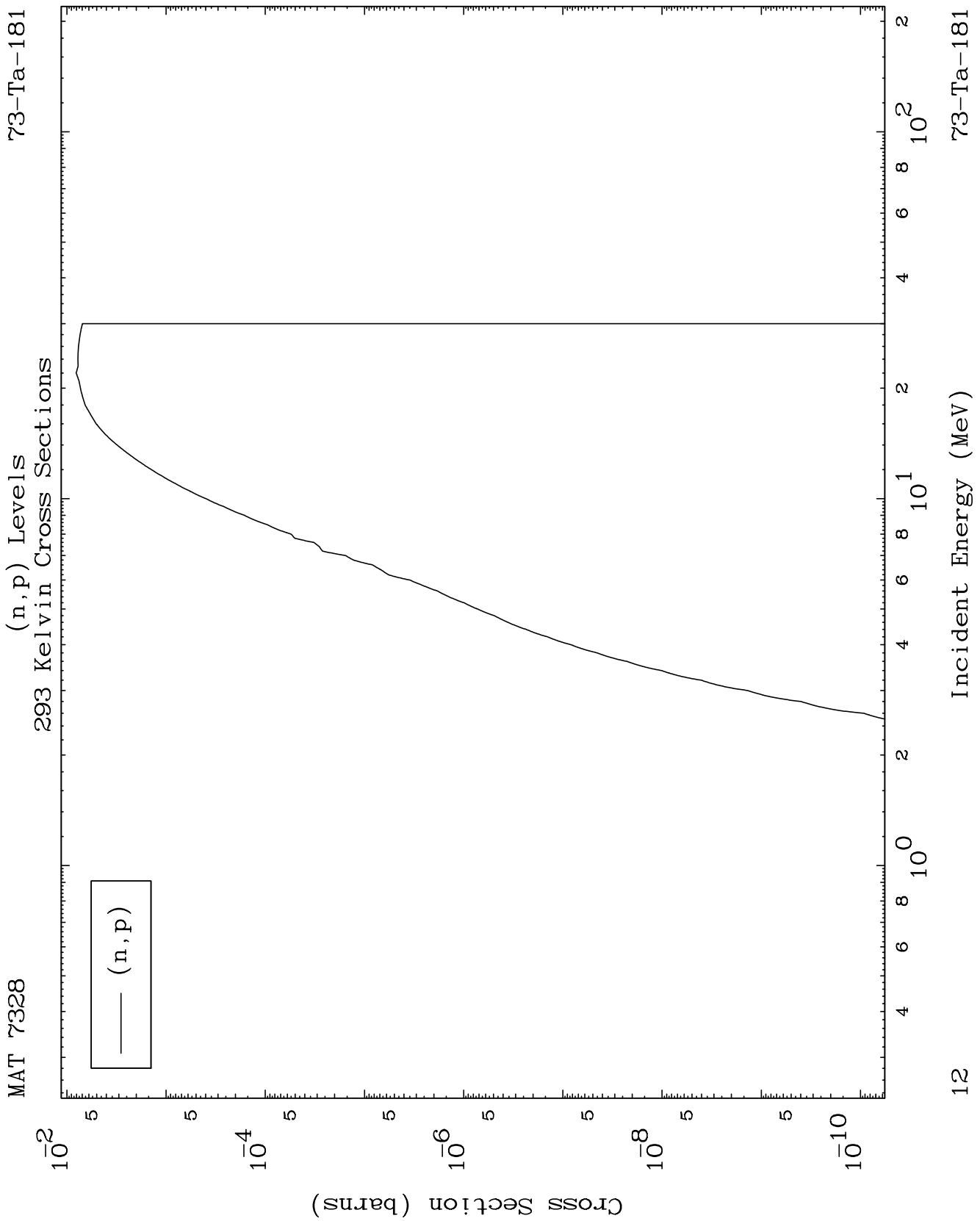
73-Ta-181

MAT 7328

73-Ta-181

(n,n') Levels
293 Kelvin Cross Sections

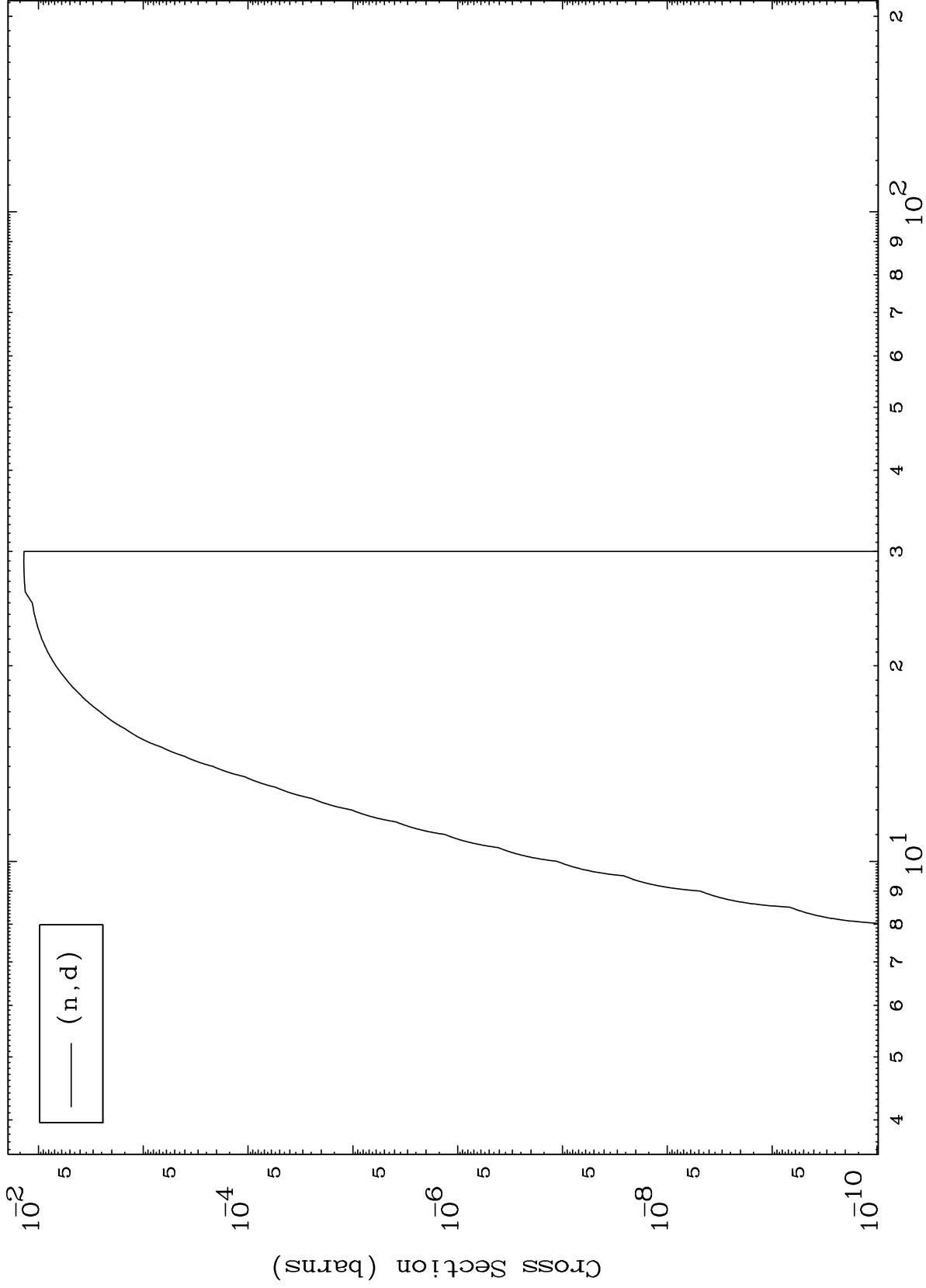




MAT 7328

(n,d) Levels
293 Kelvin Cross Sections

73-Ta-181



13

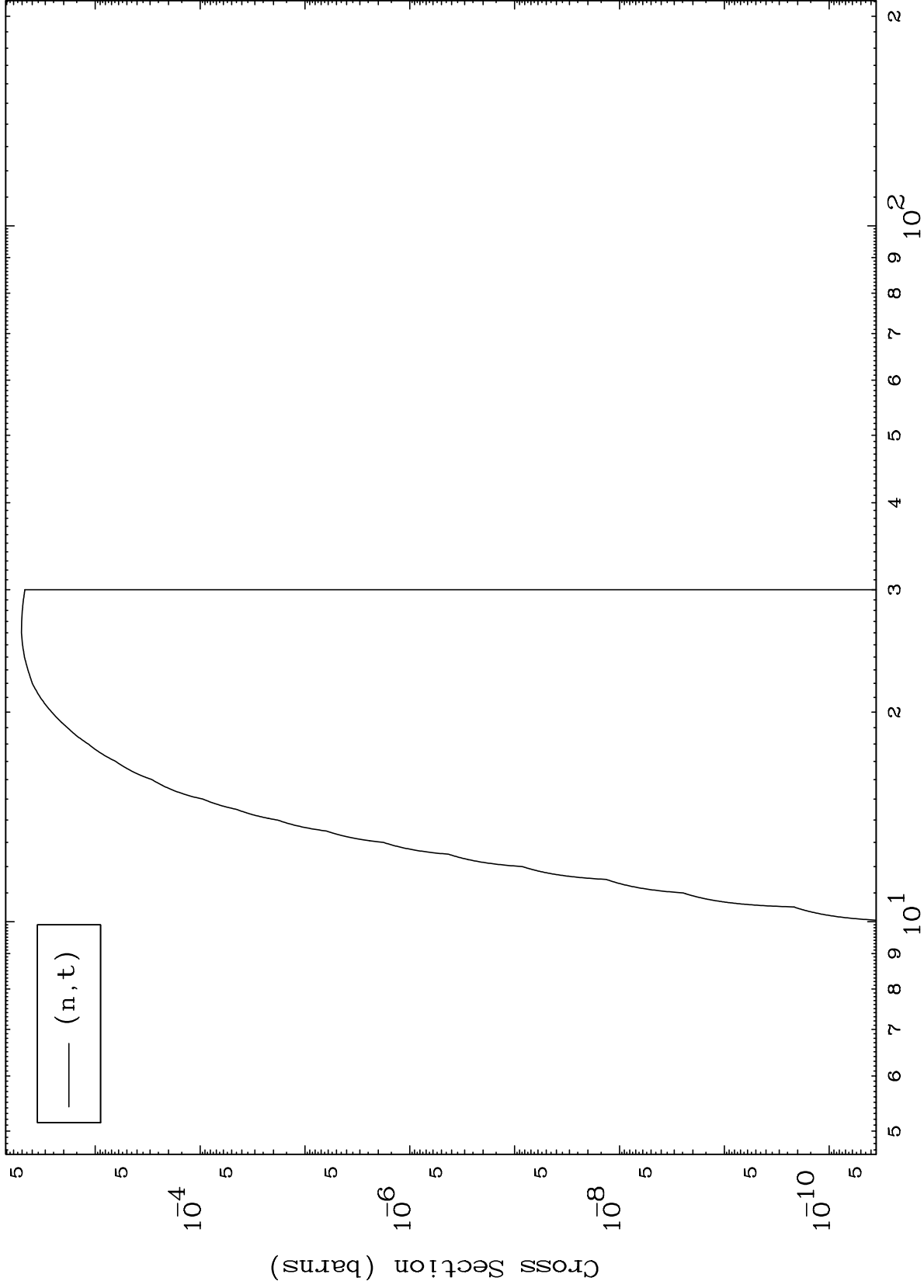
Incident Energy (MeV)

73-Ta-181

MAT 7328

(n,t) Levels
293 Kelvin Cross Sections

73-Ta-181



14

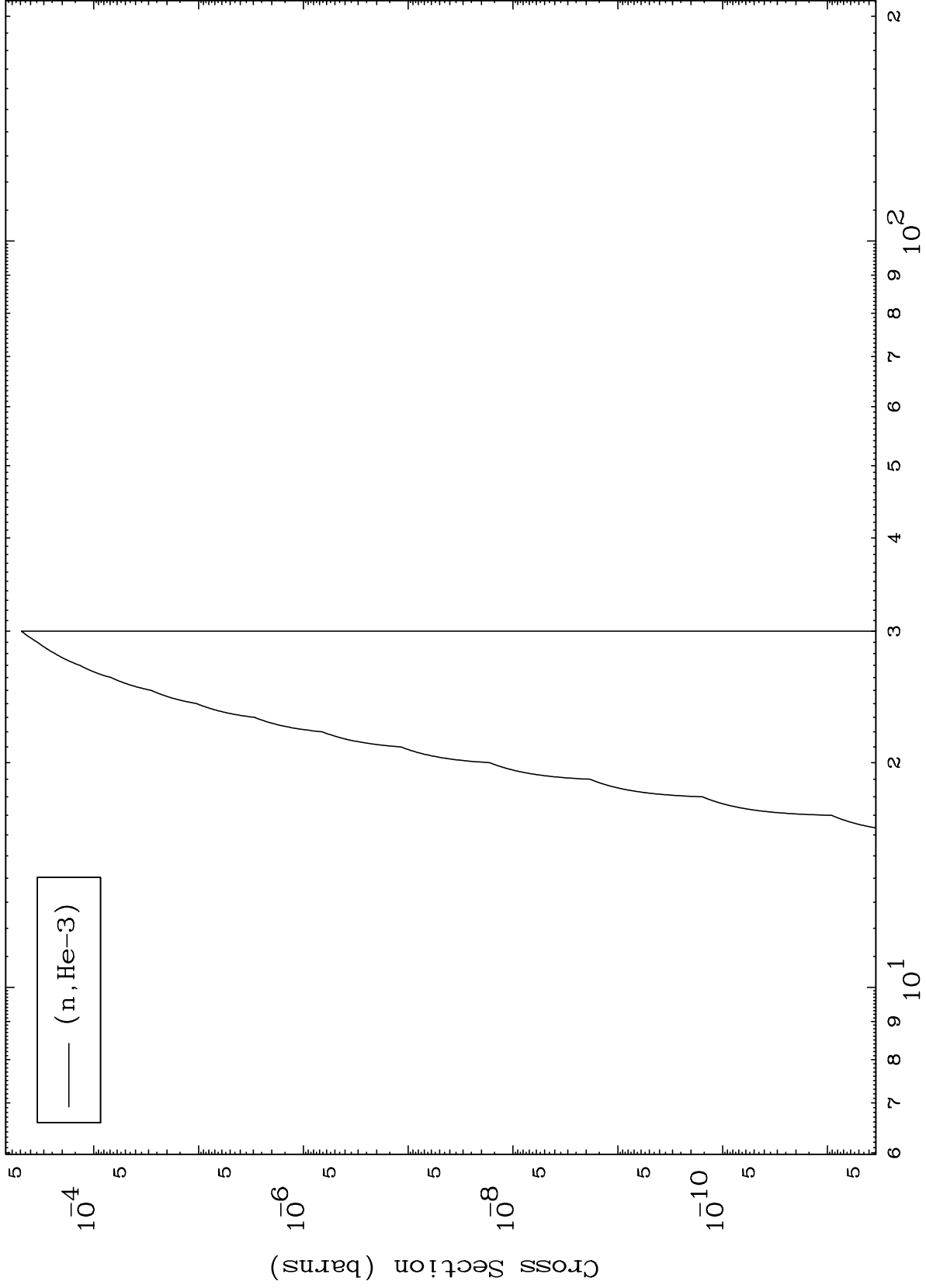
Incident Energy (MeV)

73-Ta-181

MAT 7328

(n,He3) Levels
293 Kelvin Cross Sections

73-Ta-181



15

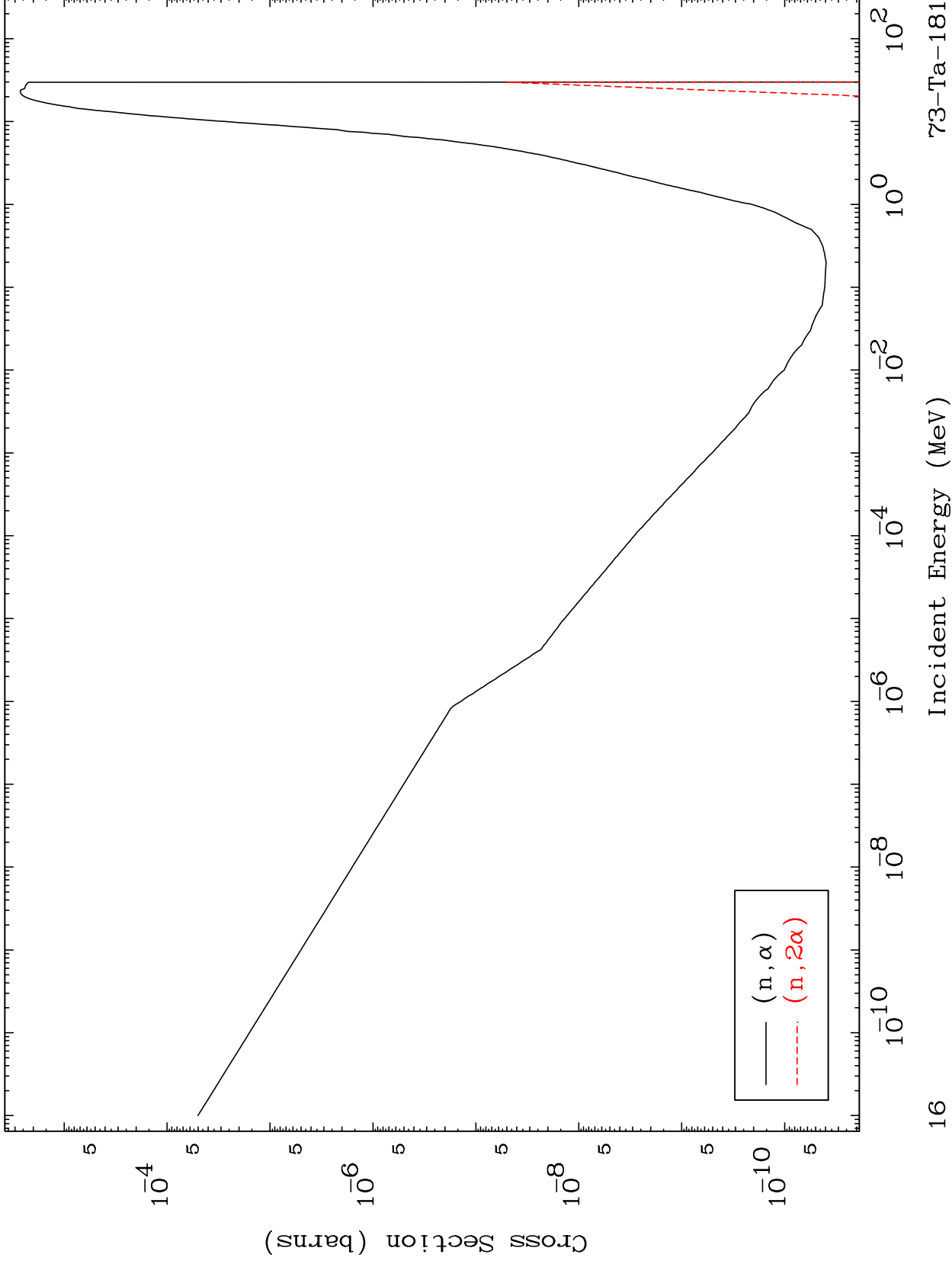
Incident Energy (MeV)

73-Ta-181

MAT 7328

(n,α) Levels
293 Kelvin Cross Sections

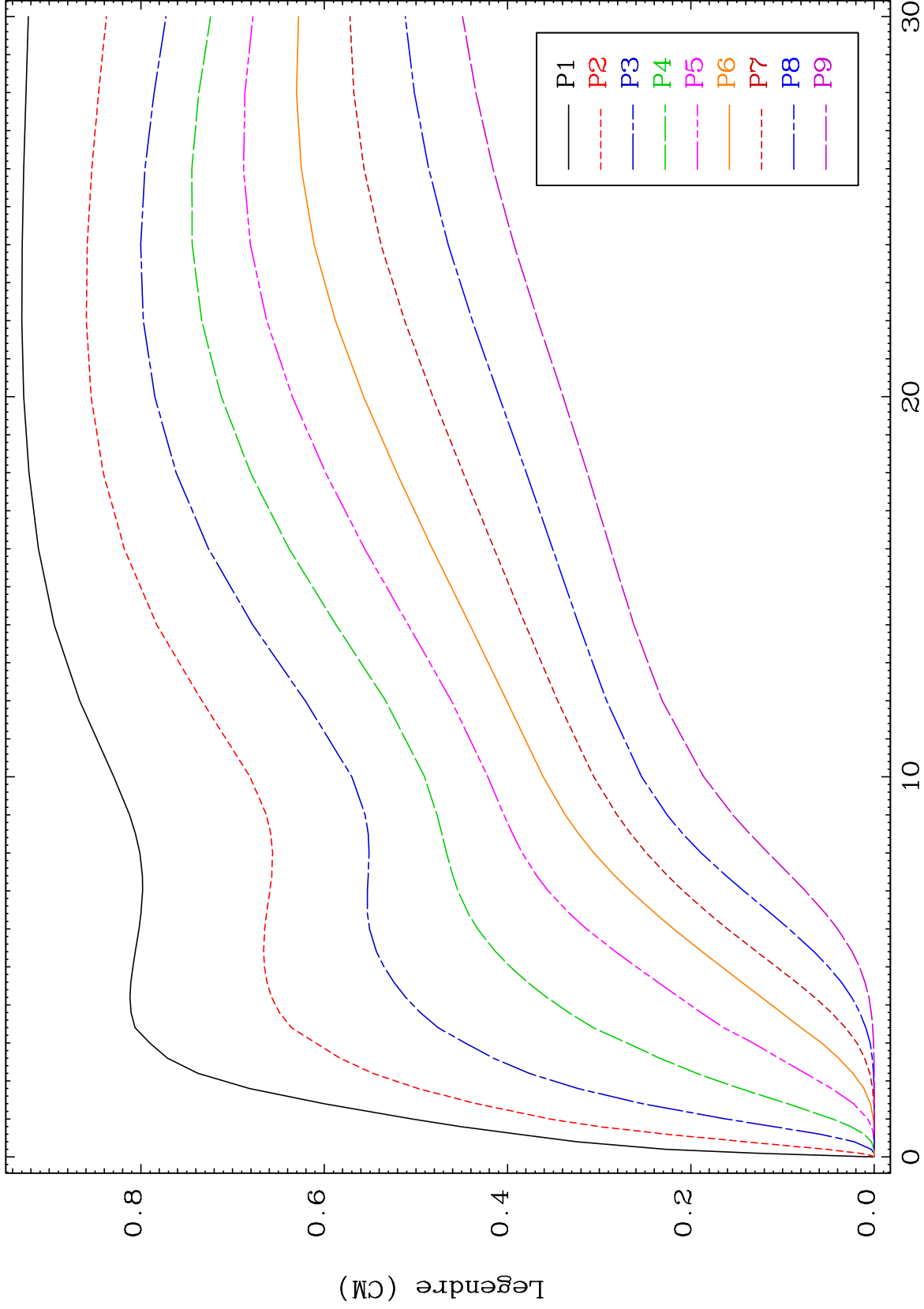
73-Ta-181



MAT 7328

Elastic Legendre Coefficients

⁷³Ta-181



17

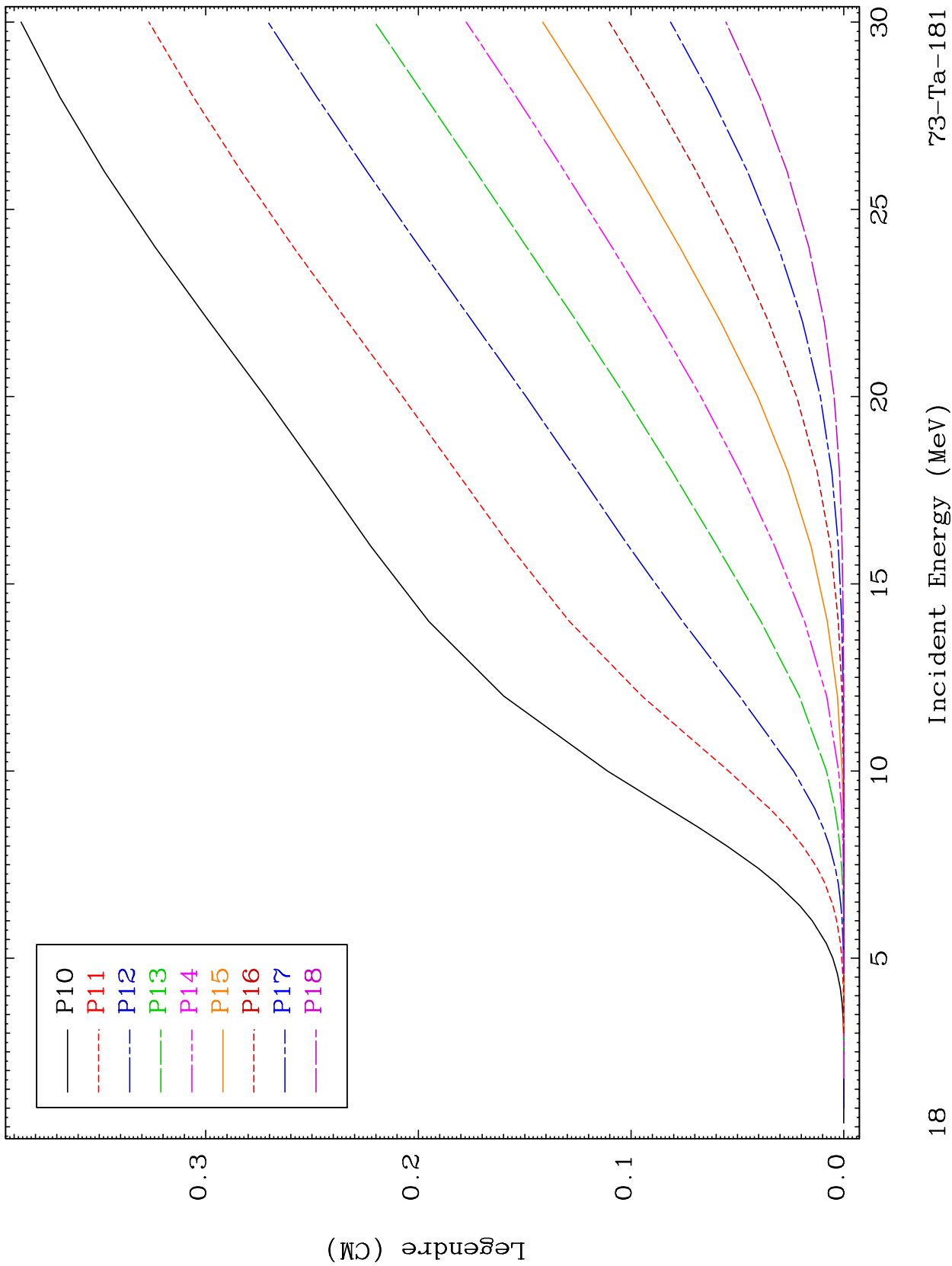
Incident Energy (MeV)

⁷³Ta-181

MAT 7328

Elastic Legendre Coefficients

⁷³Ta-181

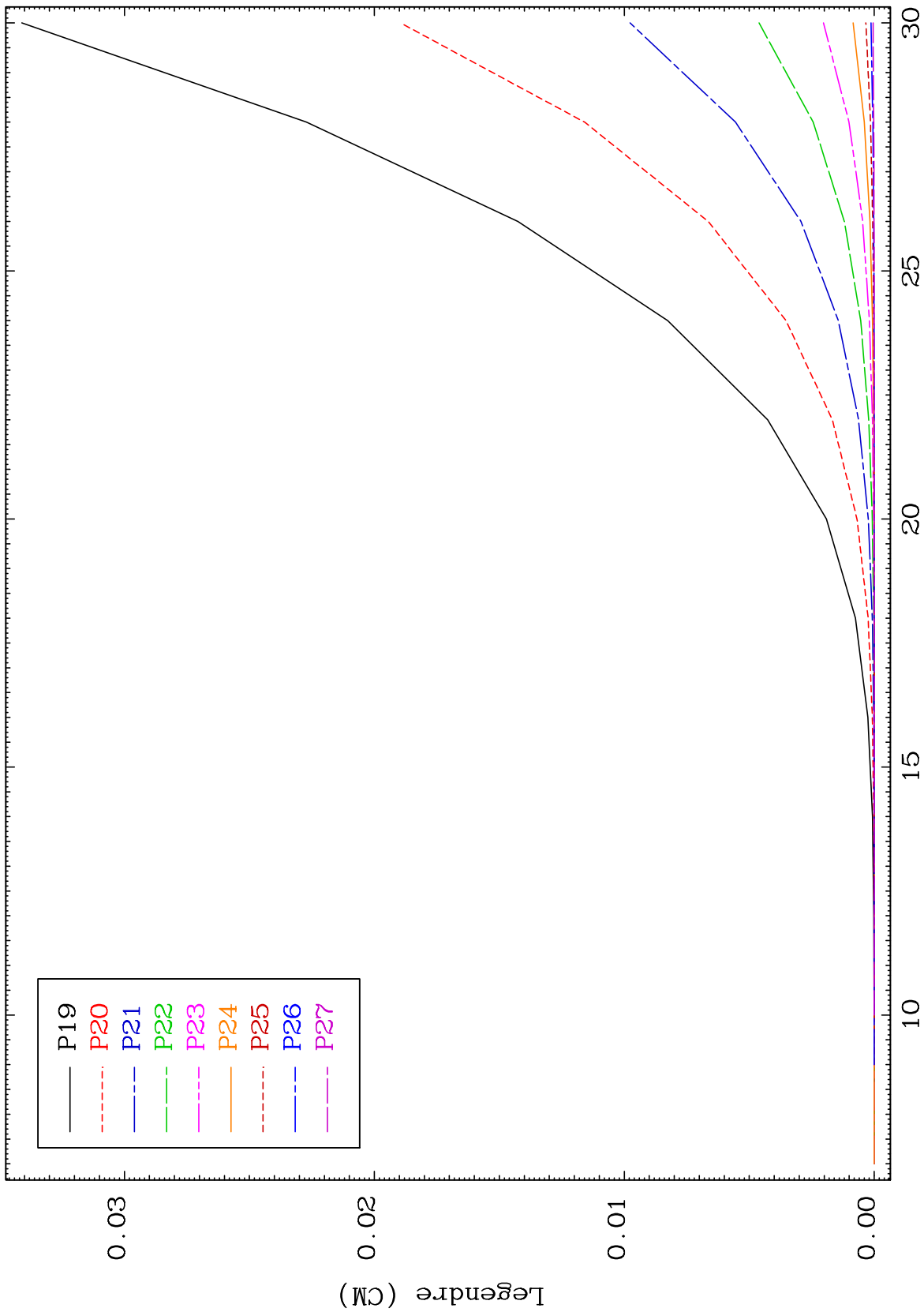


18

MAT 7328

Elastic
Legendre Coefficients

73-Ta-181



19

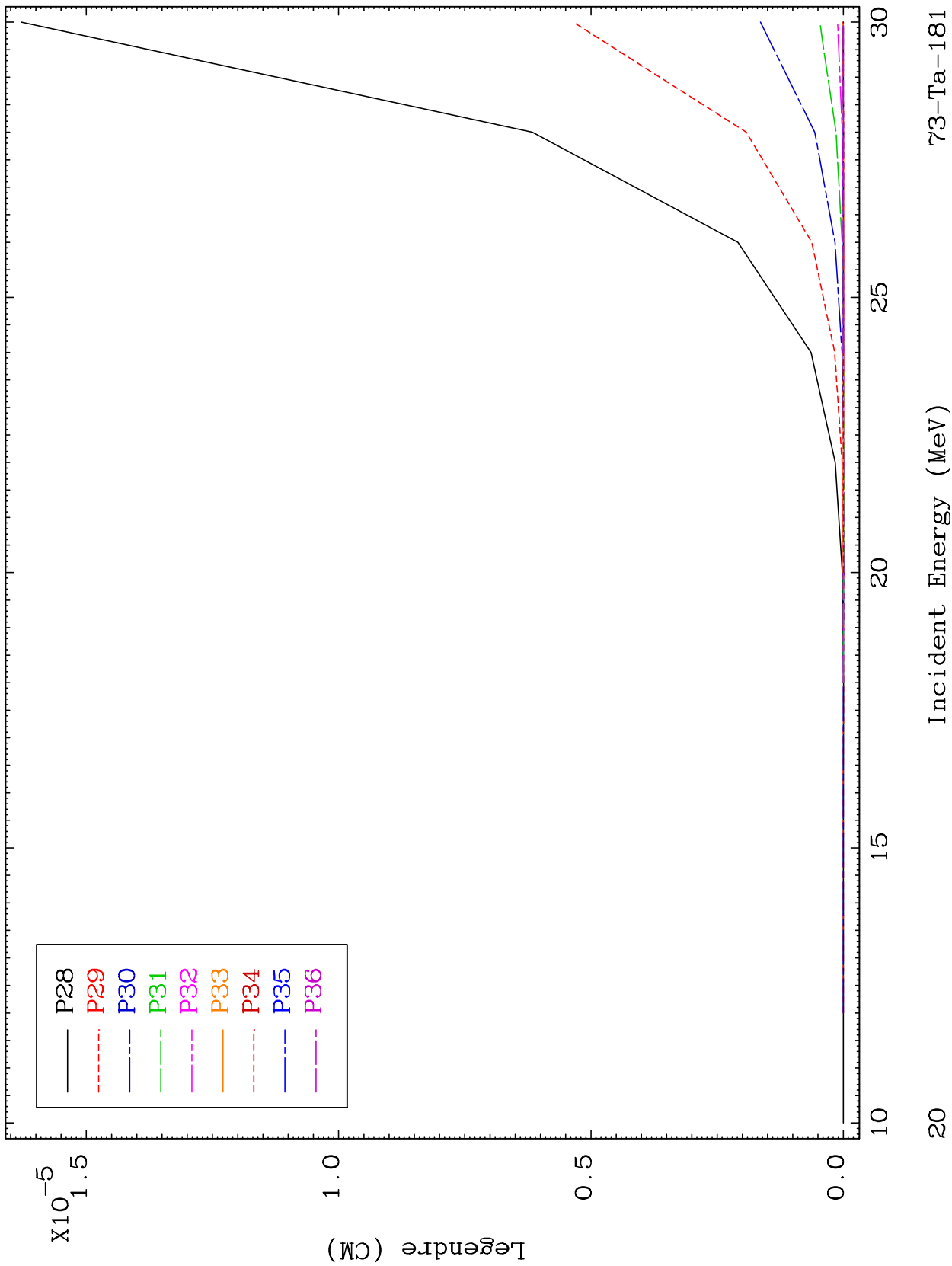
Incident Energy (MeV)

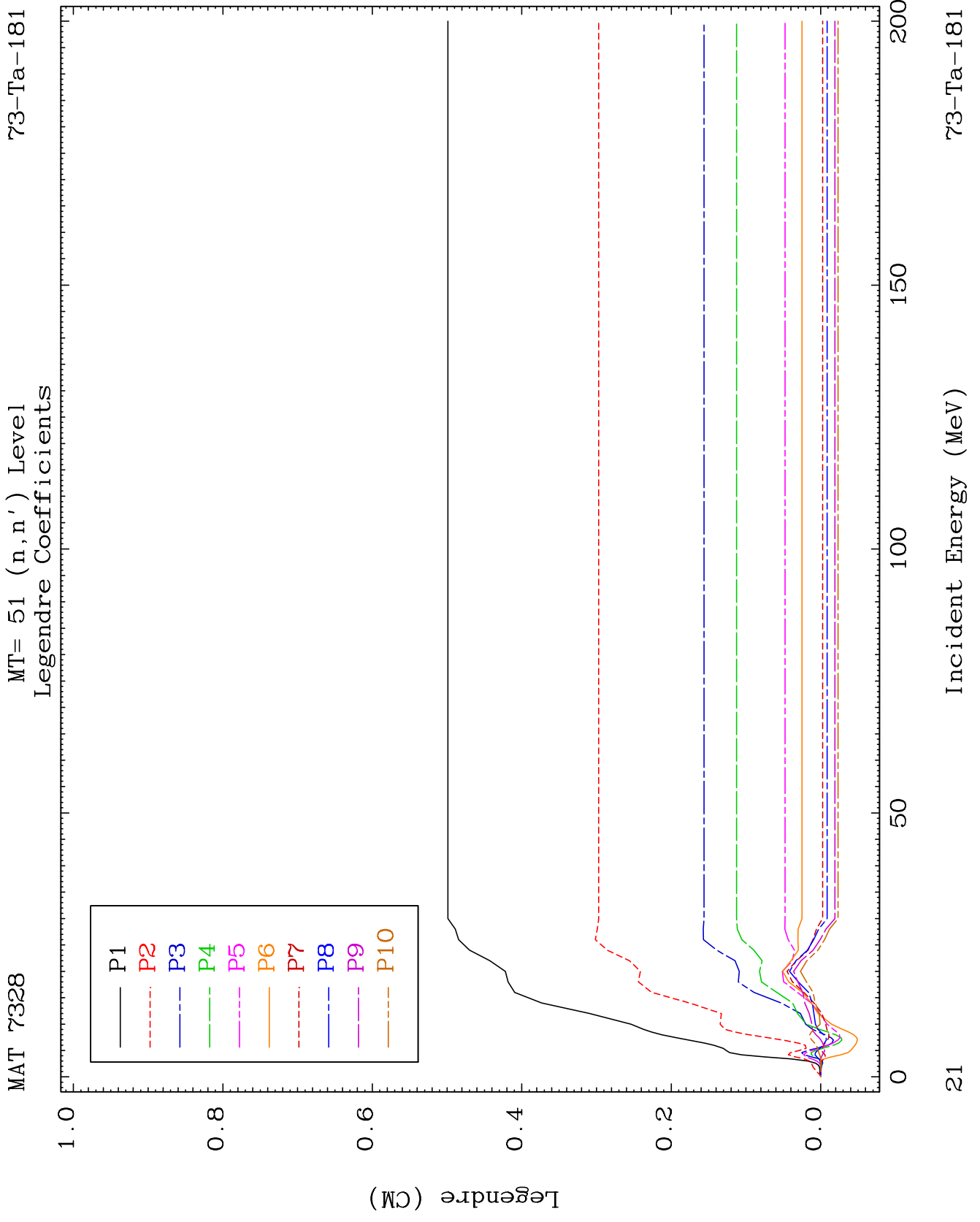
73-Ta-181

MAT 7328

Elastic Legendre Coefficients

⁷³Ta-181

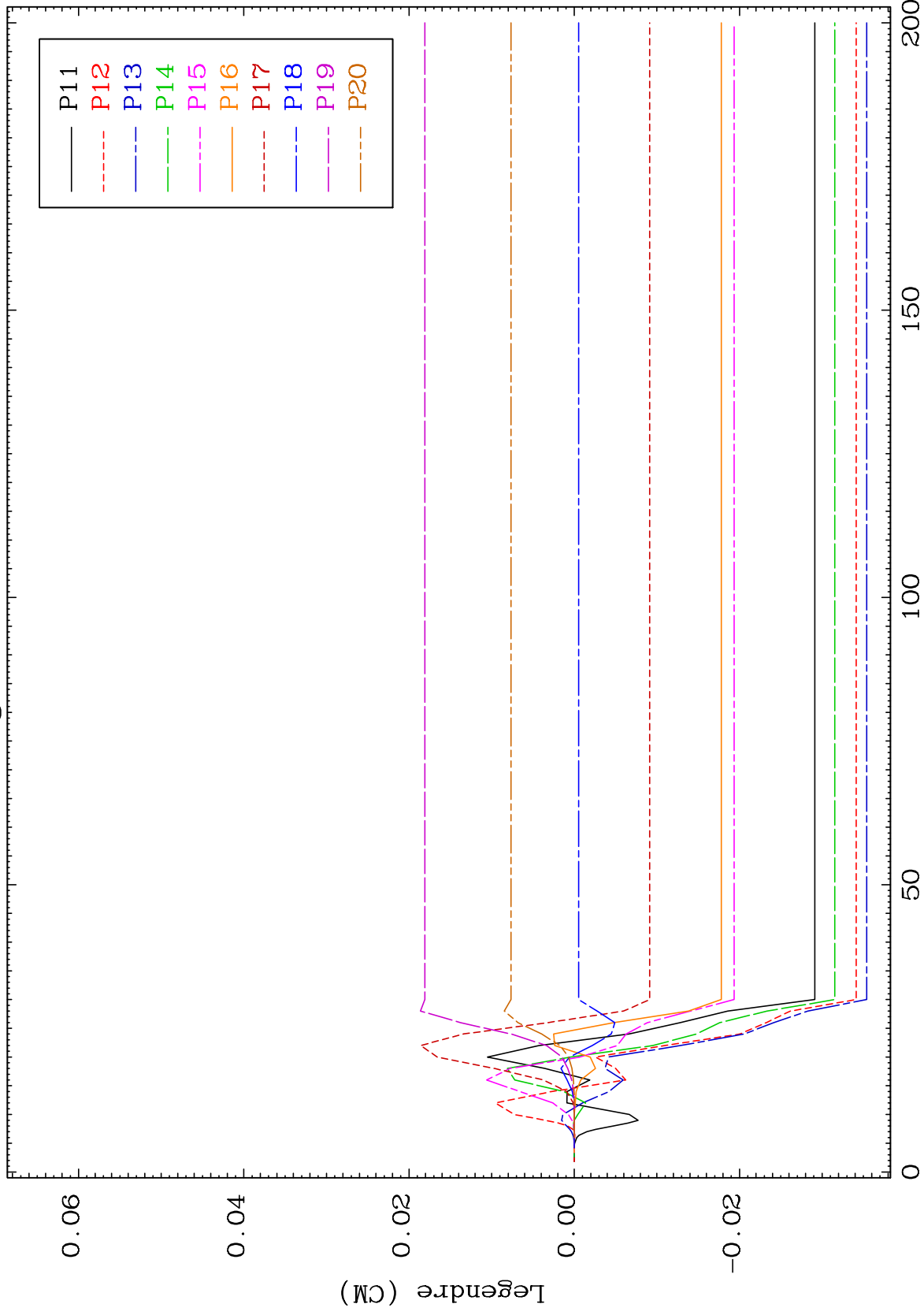




MAT 7328

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

73-Ta-181



22

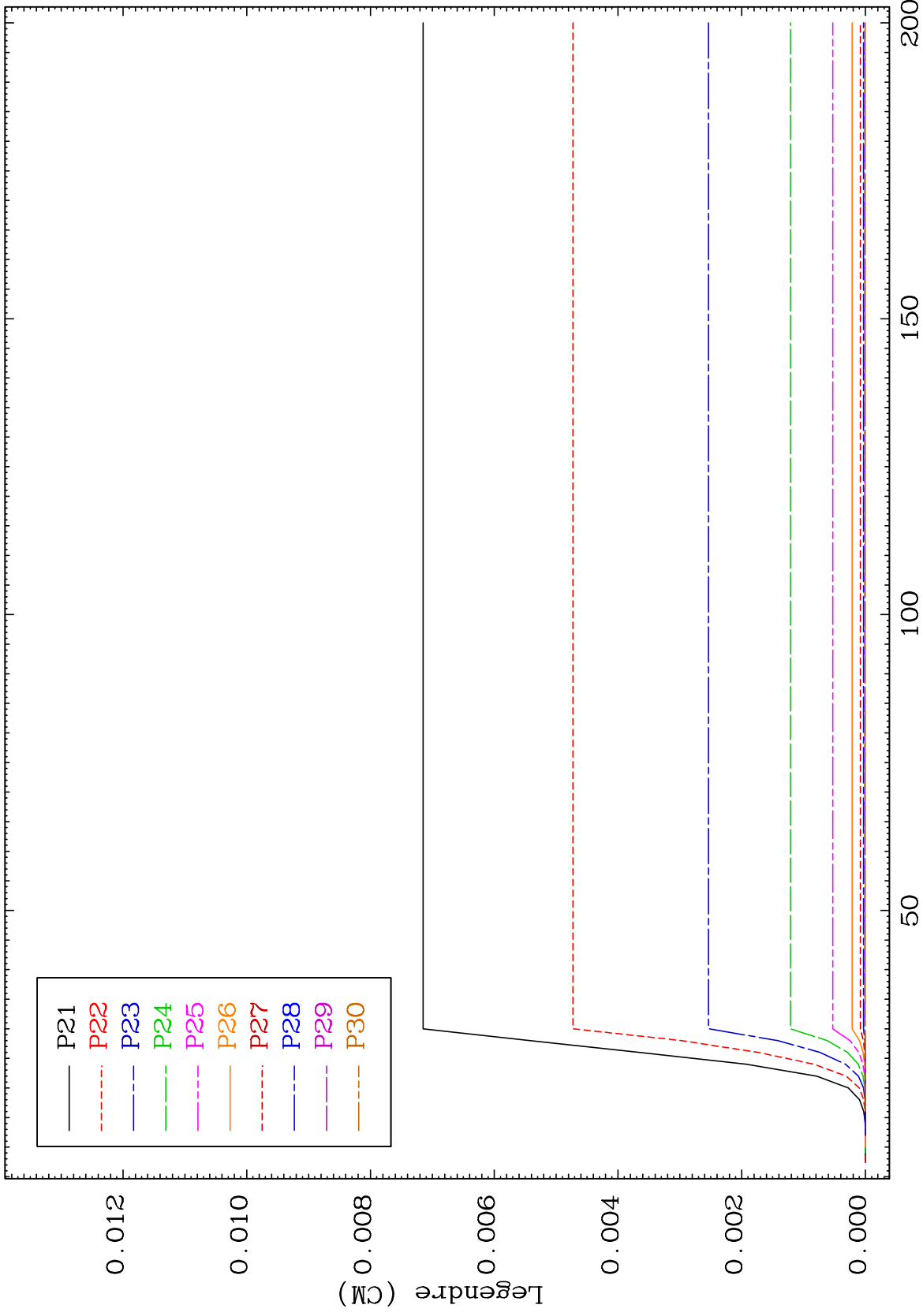
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

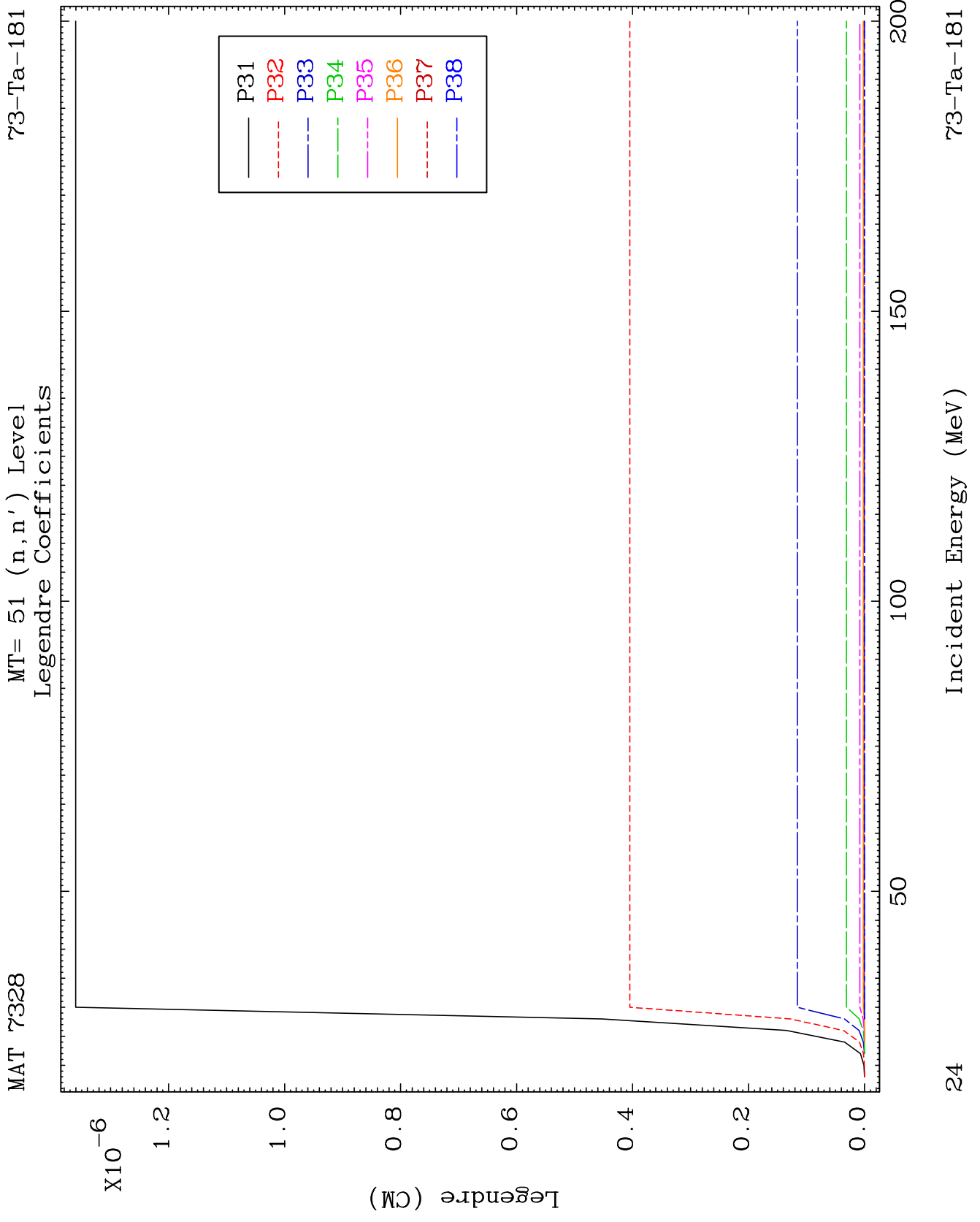
73-Ta-181

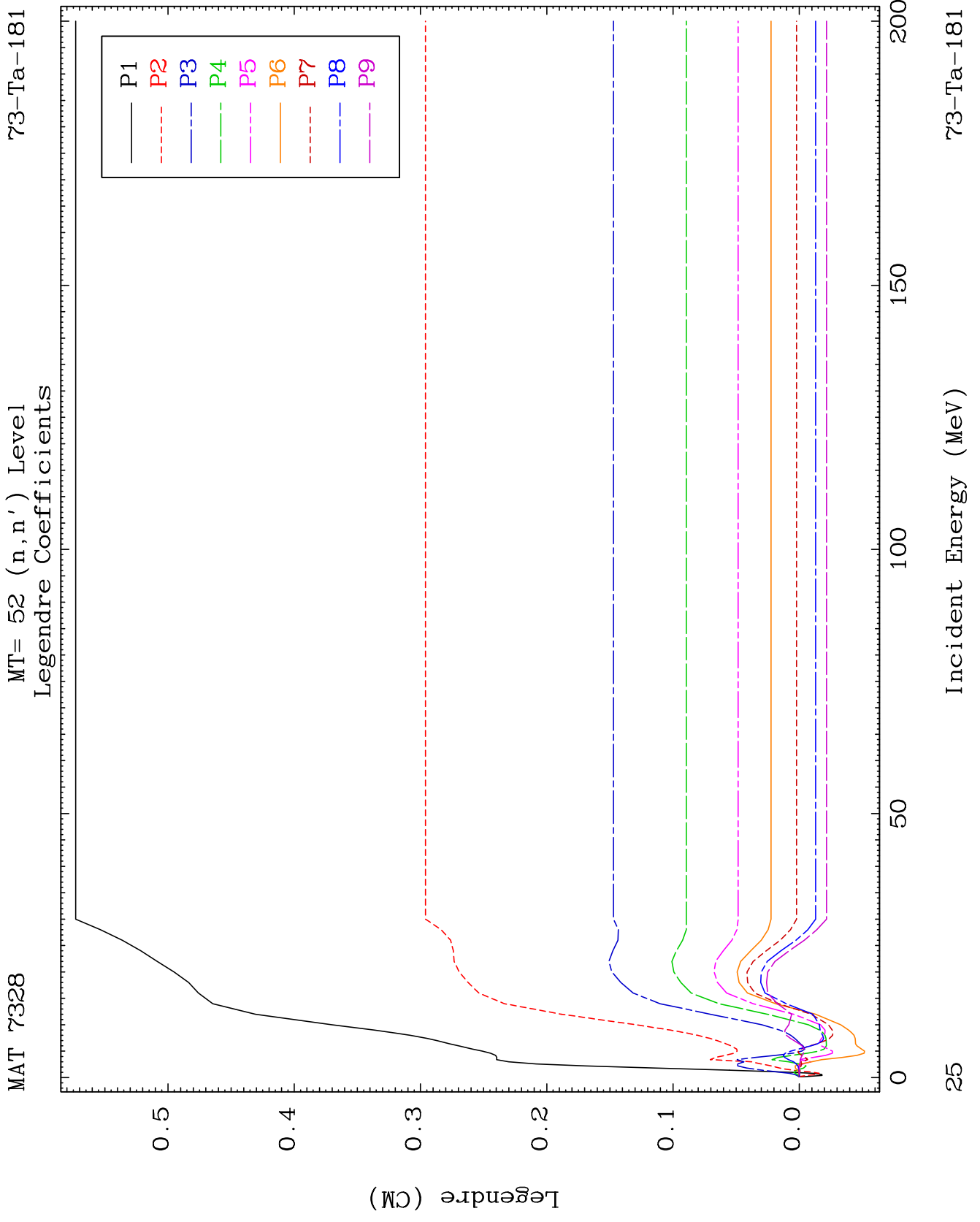


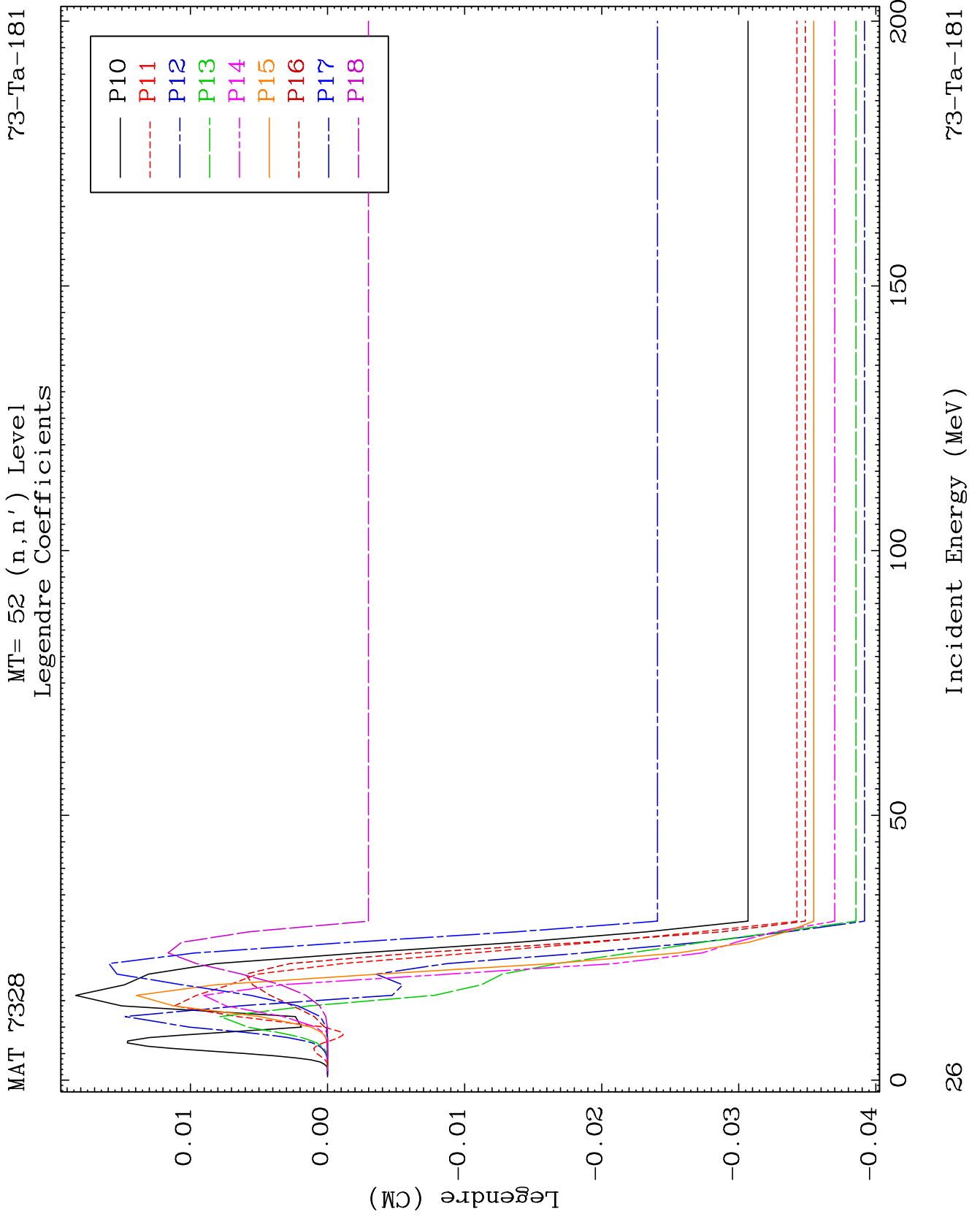
23

Incident Energy (MeV)

73-Ta-181



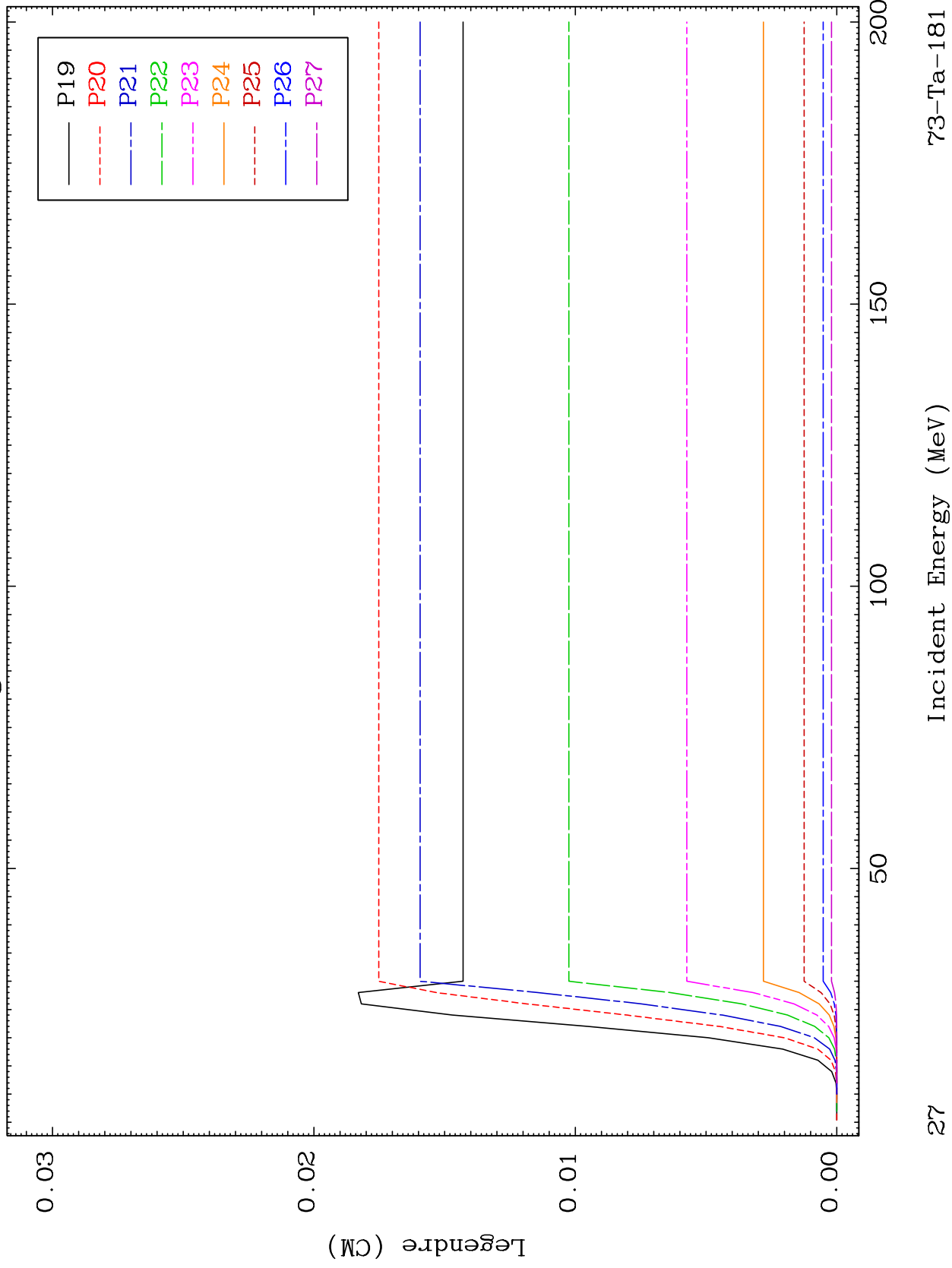




MAT 7328

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

73-Ta-181



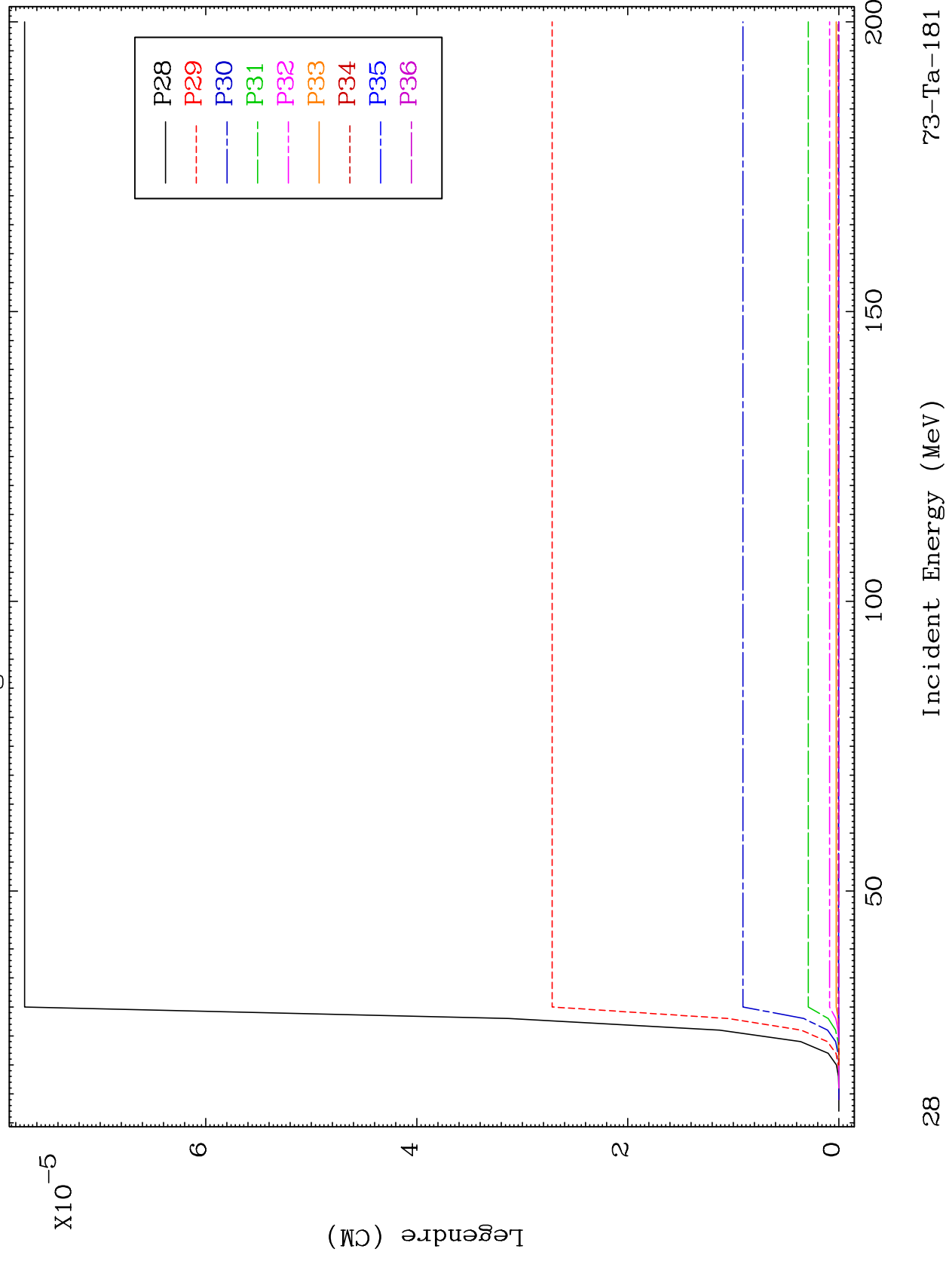
27

73-Ta-181

MAT 7328

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

73-Ta-181



28

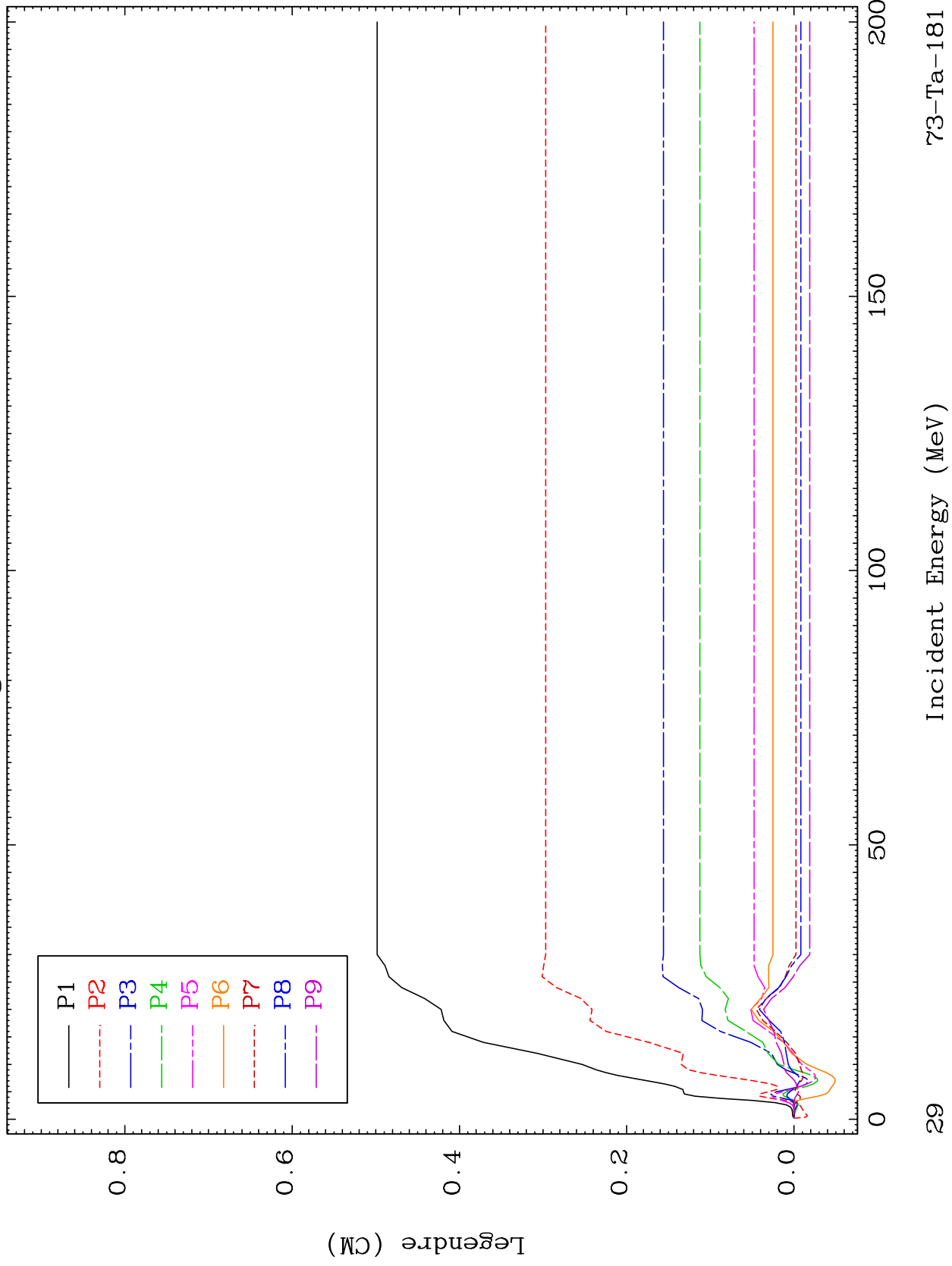
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

73-Ta-181



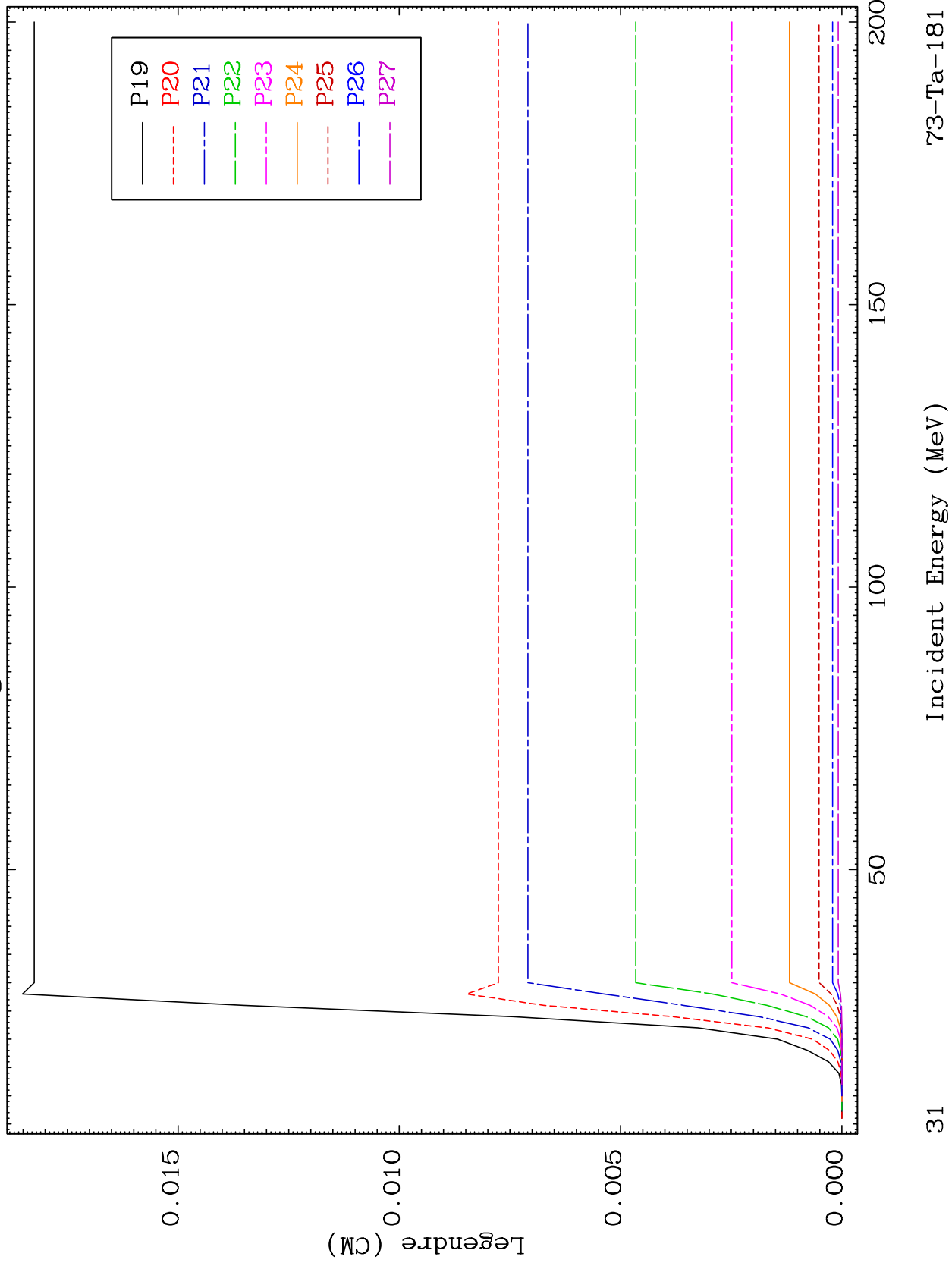
29

73-Ta-181

MAT 7328

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

73-Ta-181

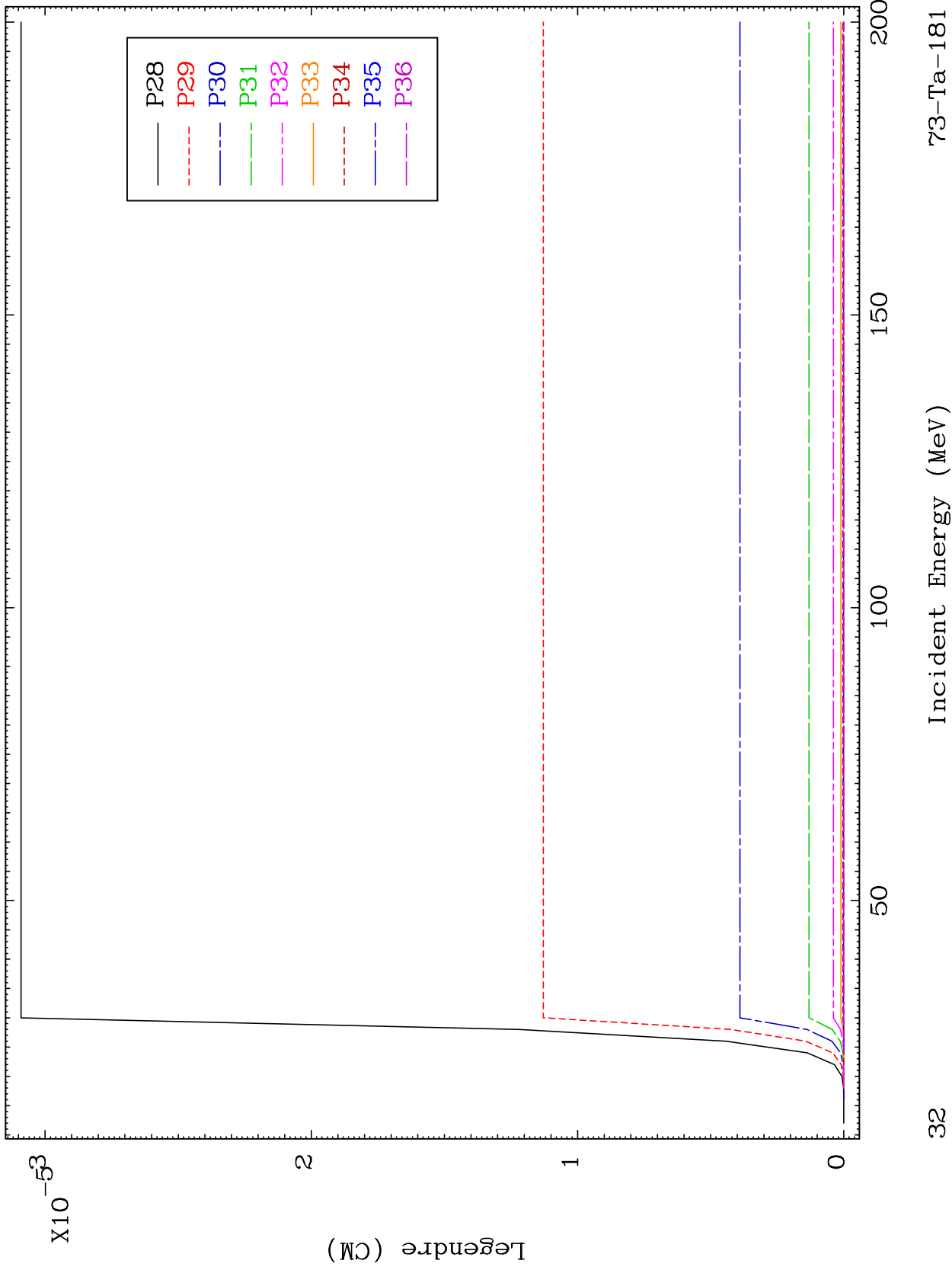


31

MAT 7328

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

73-Ta-181



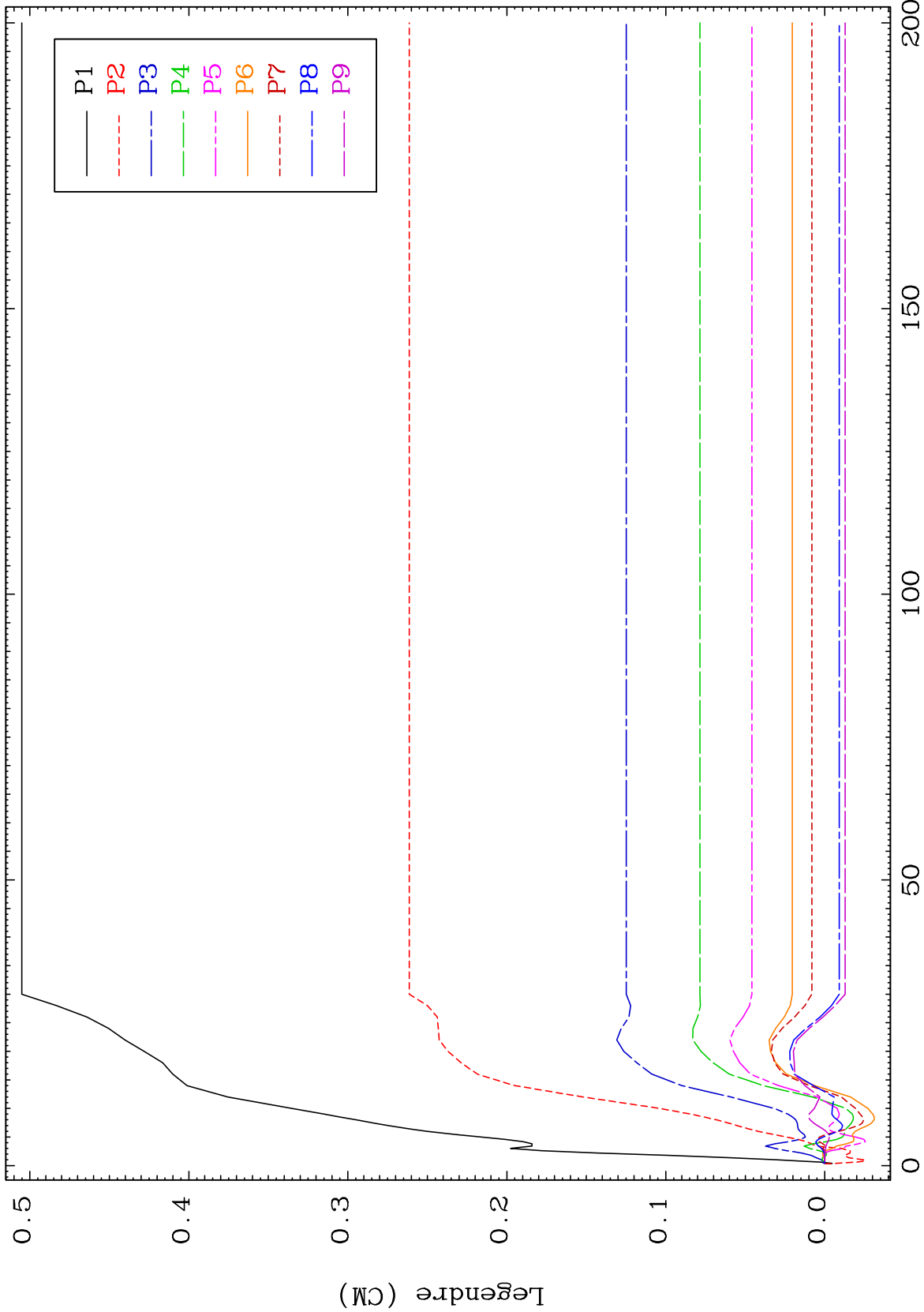
32

73-Ta-181

MAT 7328

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

73-Ta-181



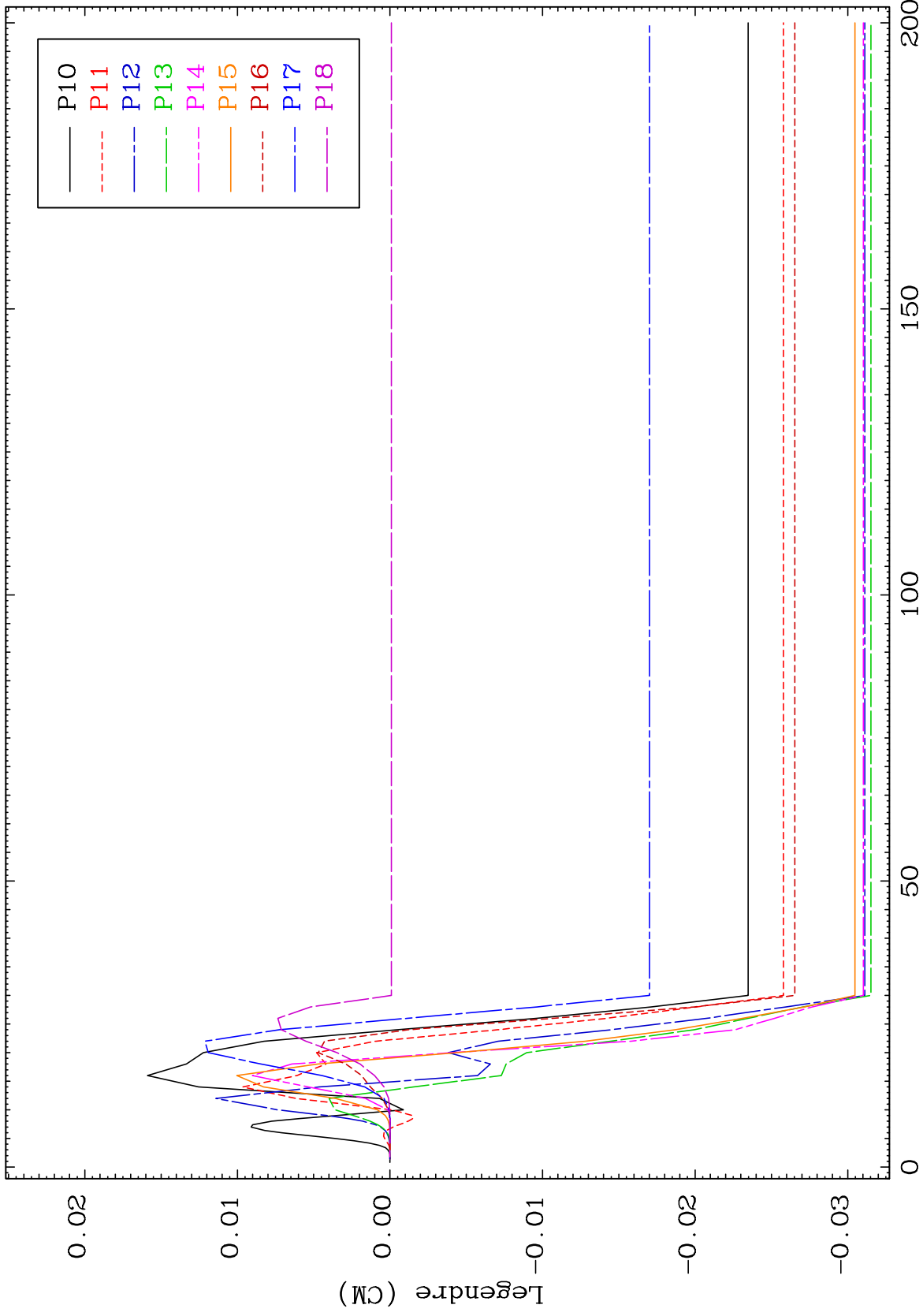
33

73-Ta-181

MAT 7328

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

73-Ta-181



34

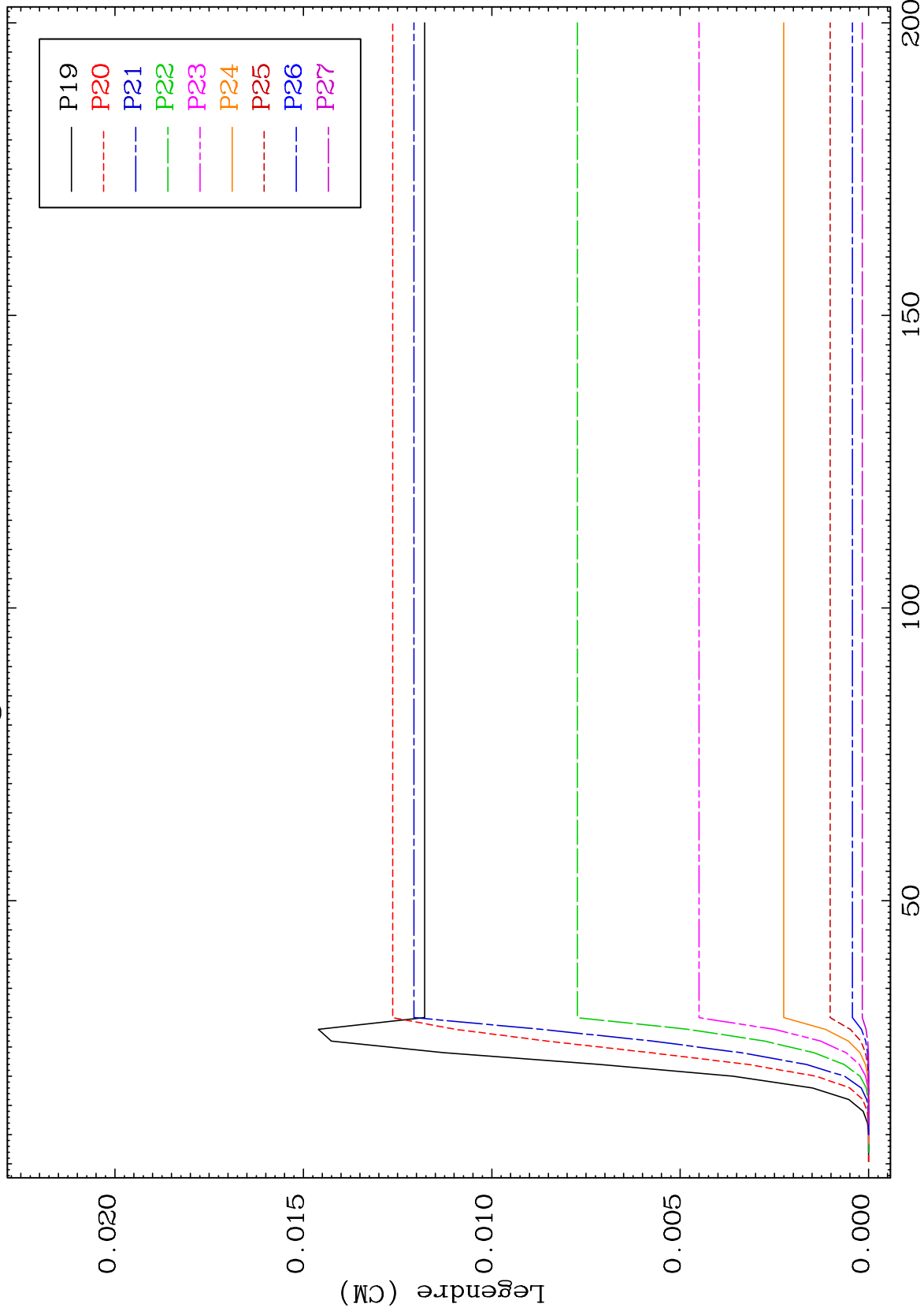
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

73-Ta-181



35

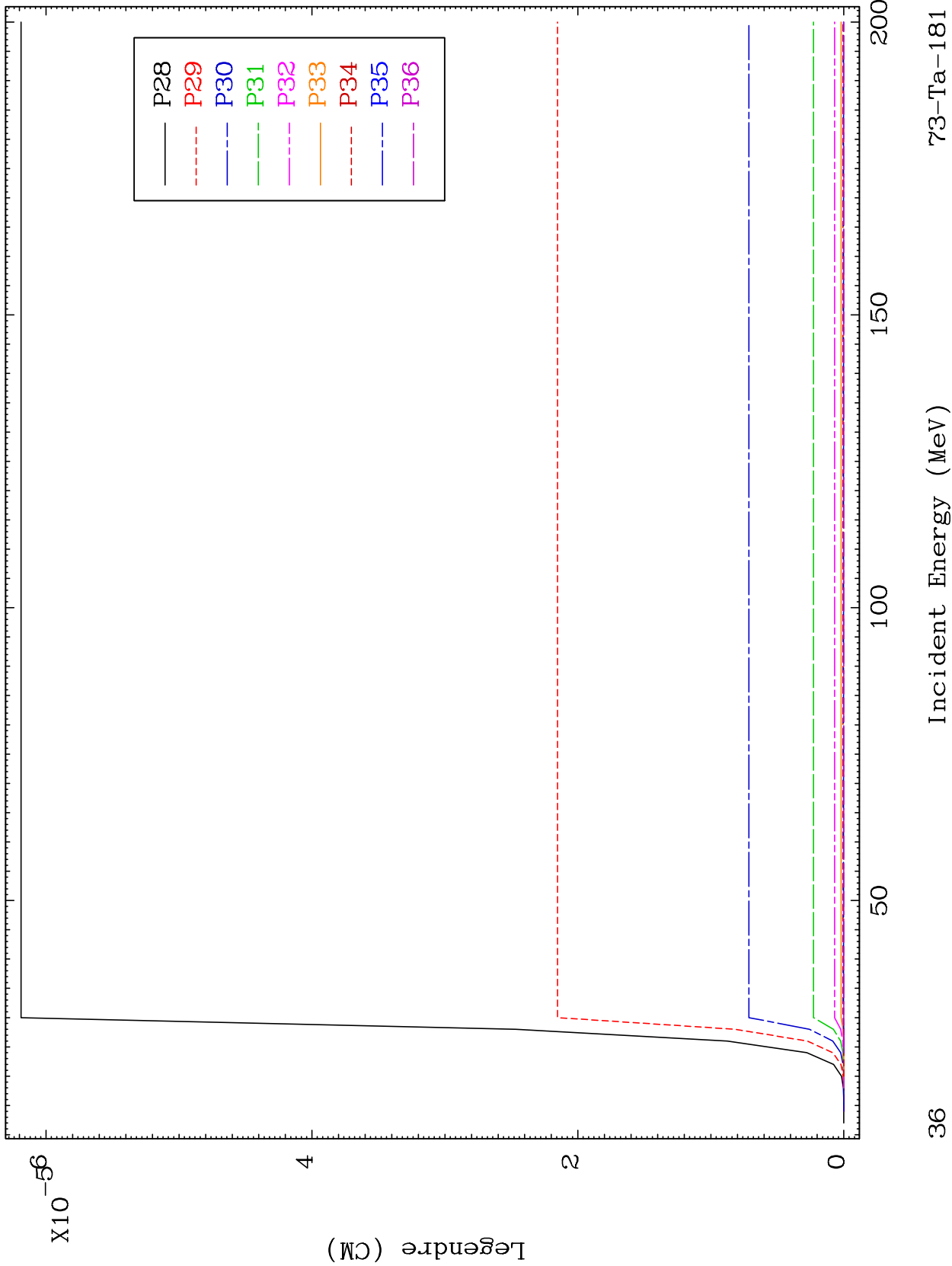
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

73-Ta-181



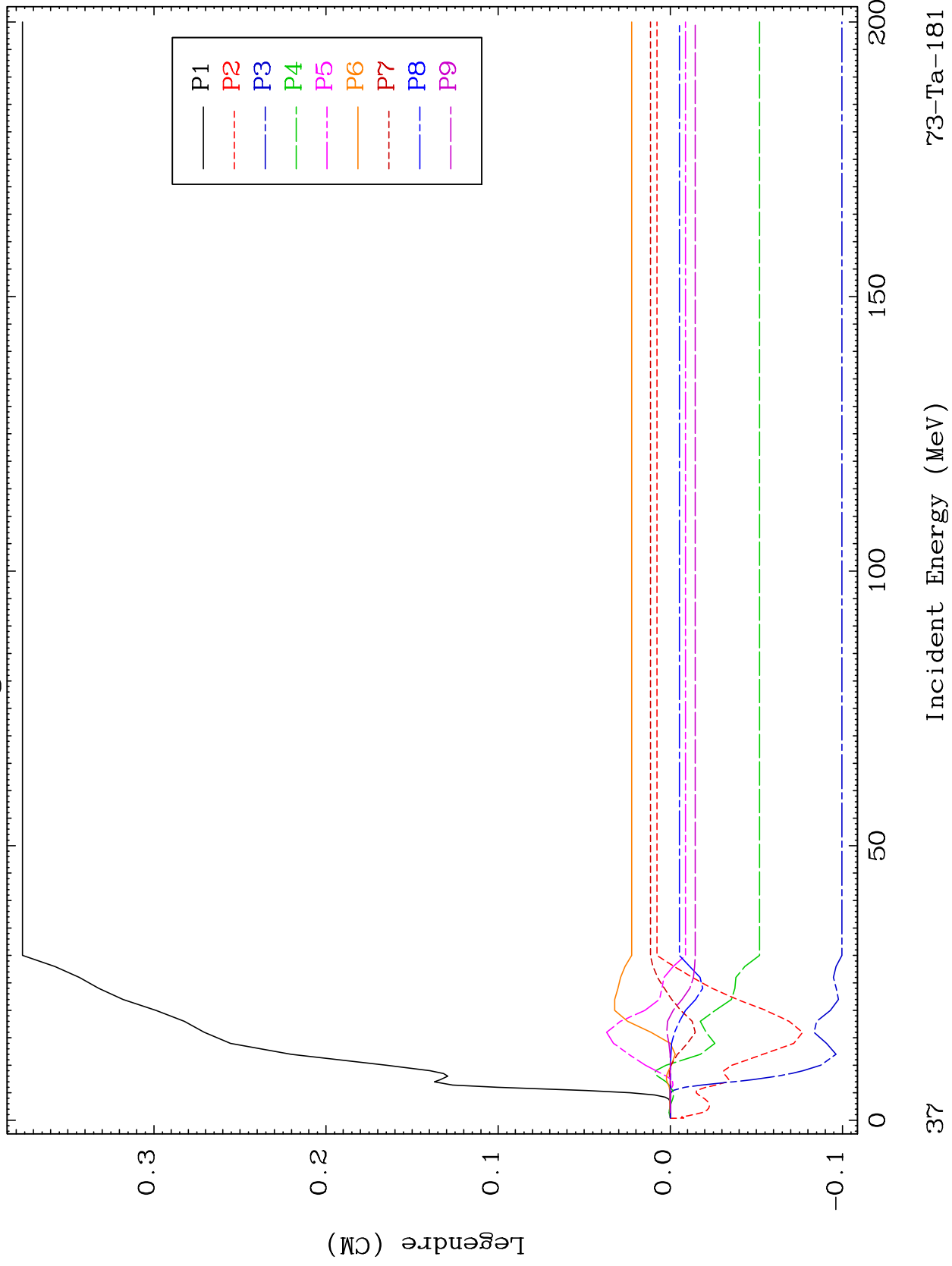
36

73-Ta-181

MAT 7328

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

73-Ta-181



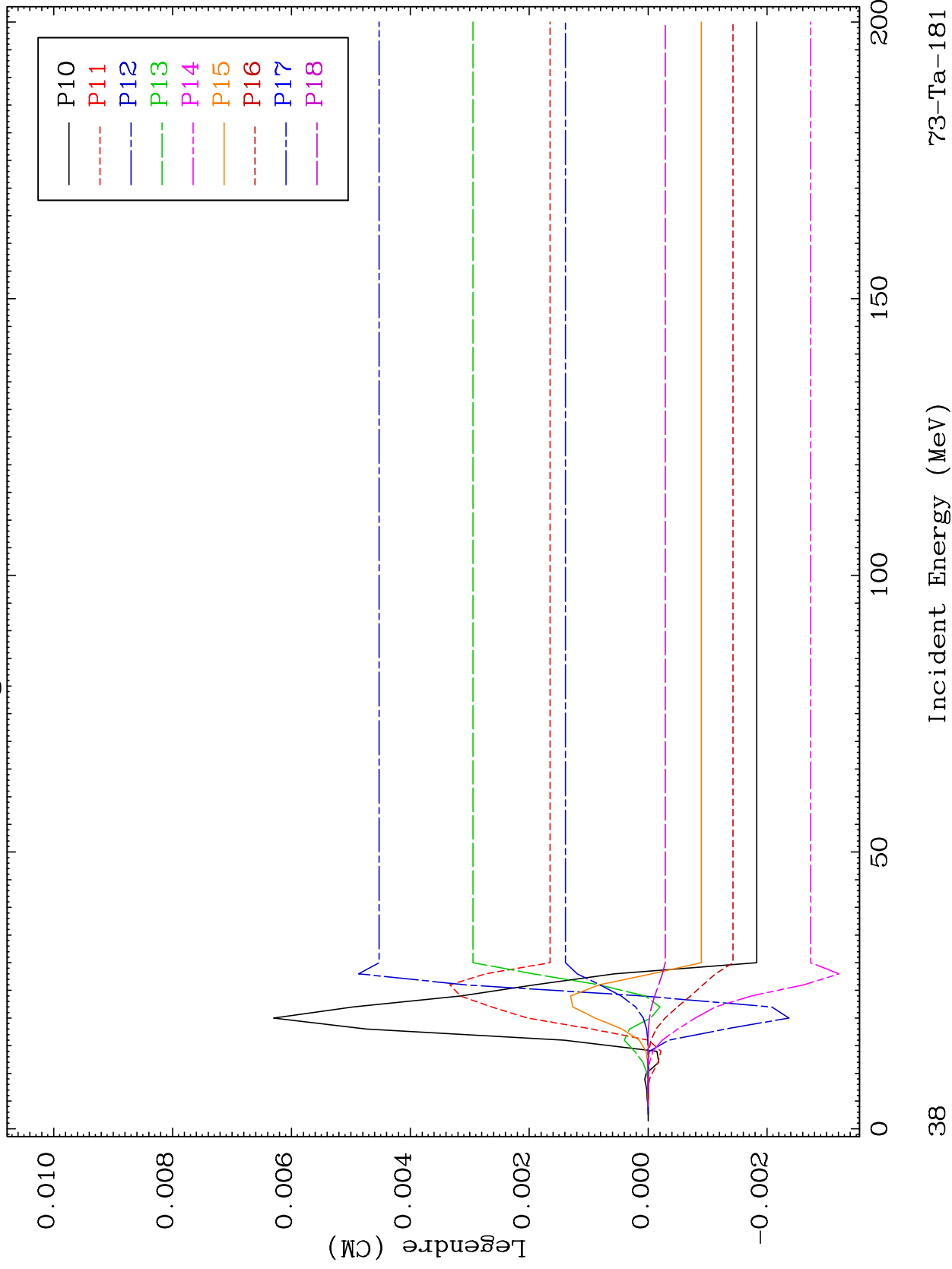
37

73-Ta-181

MAT 7328

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

73-Ta-181



73-Ta-181

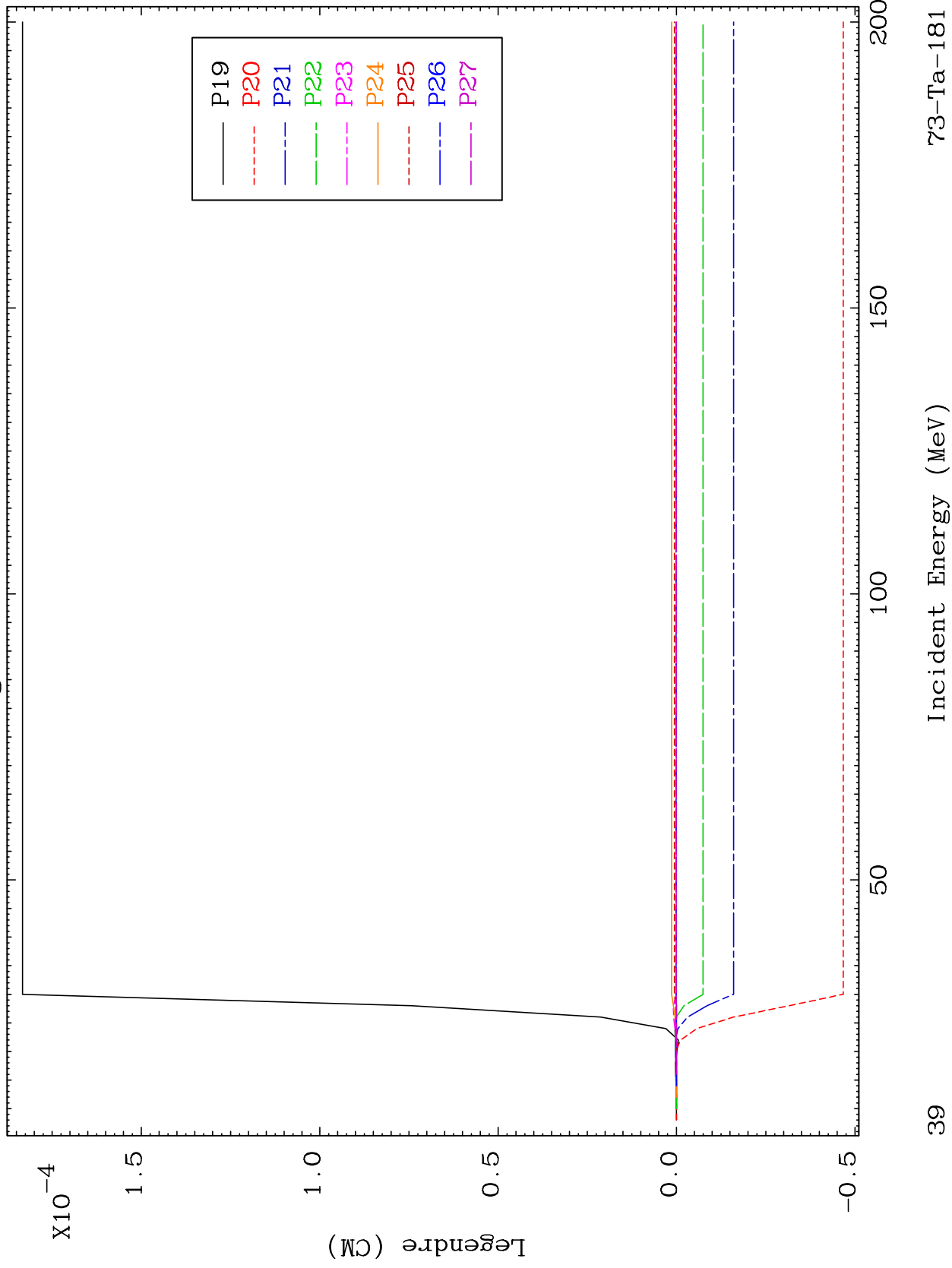
Incident Energy (MeV)

38

MAT 7328

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

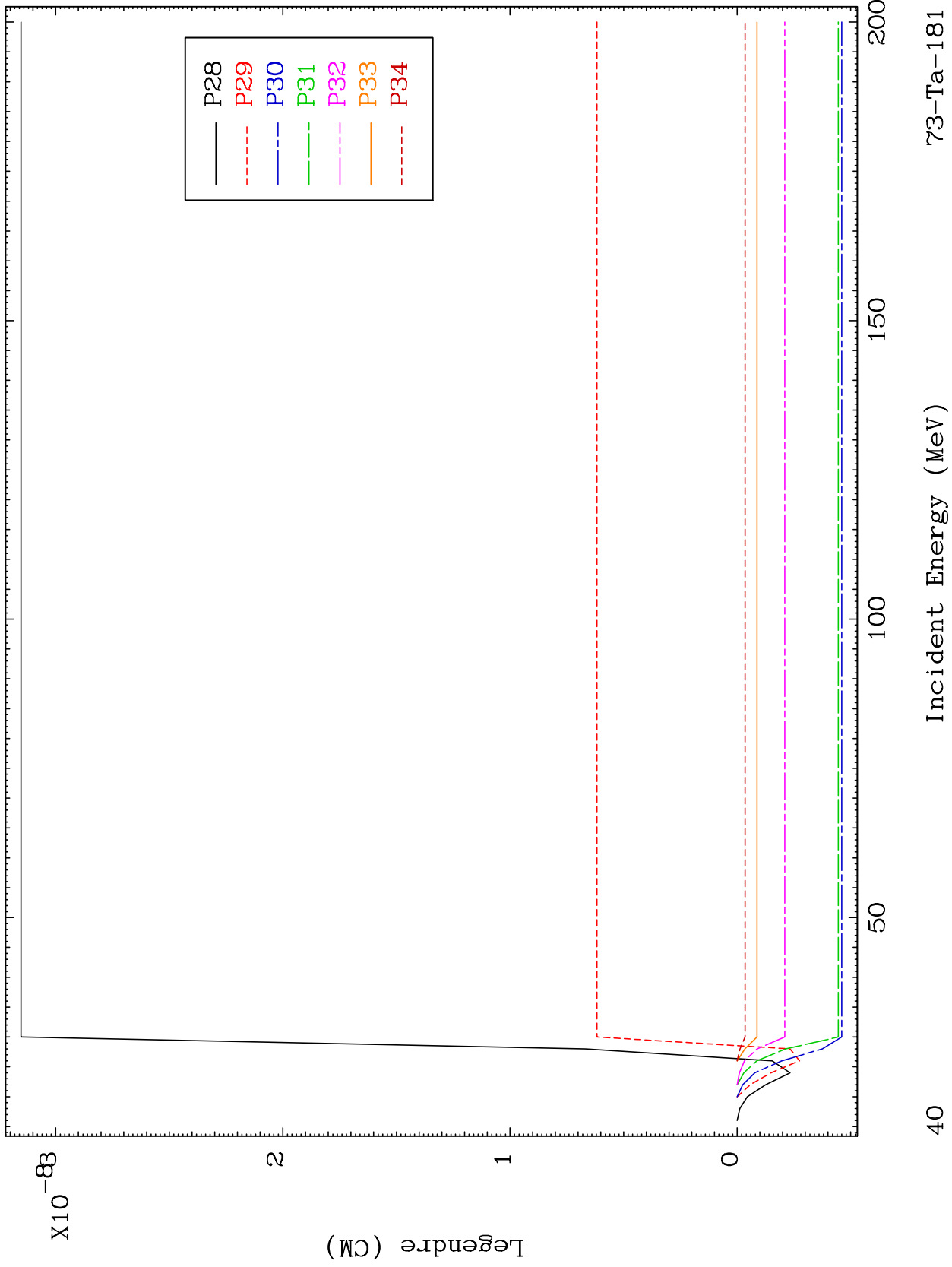
73-Ta-181



MAT 7328

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

73-Ta-181



73-Ta-181

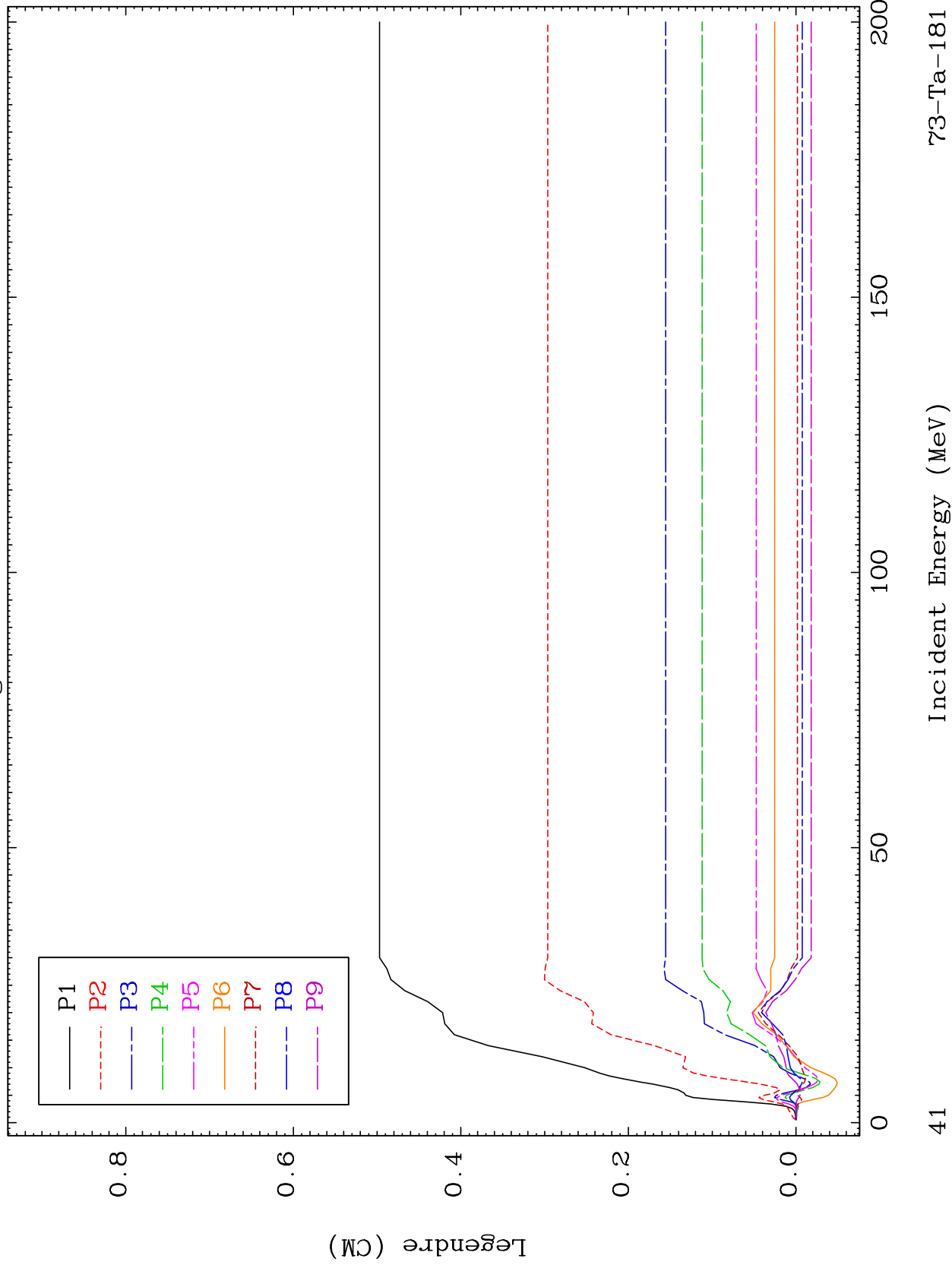
Incident Energy (MeV)

40

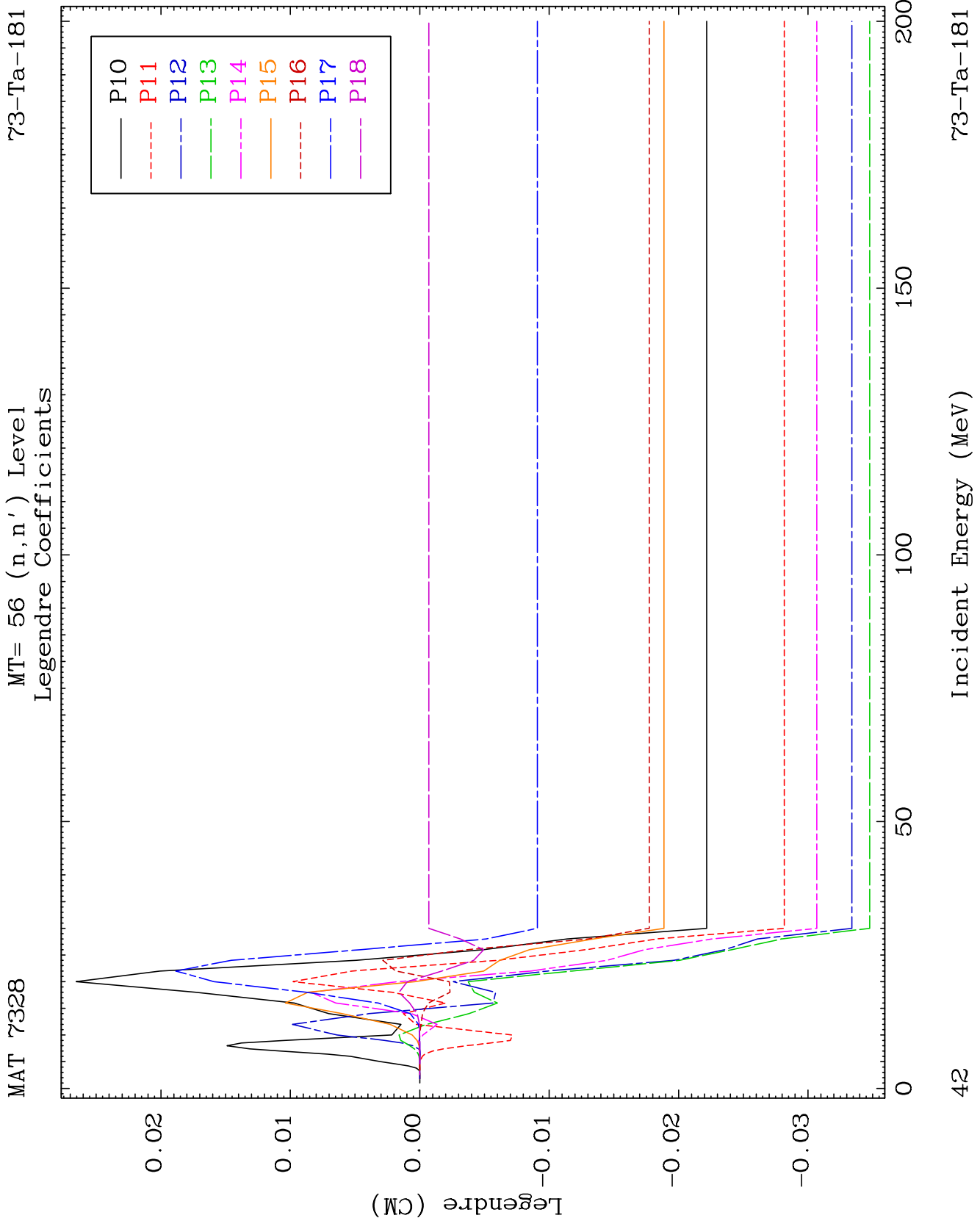
MAT 7328

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

73-Ta-181



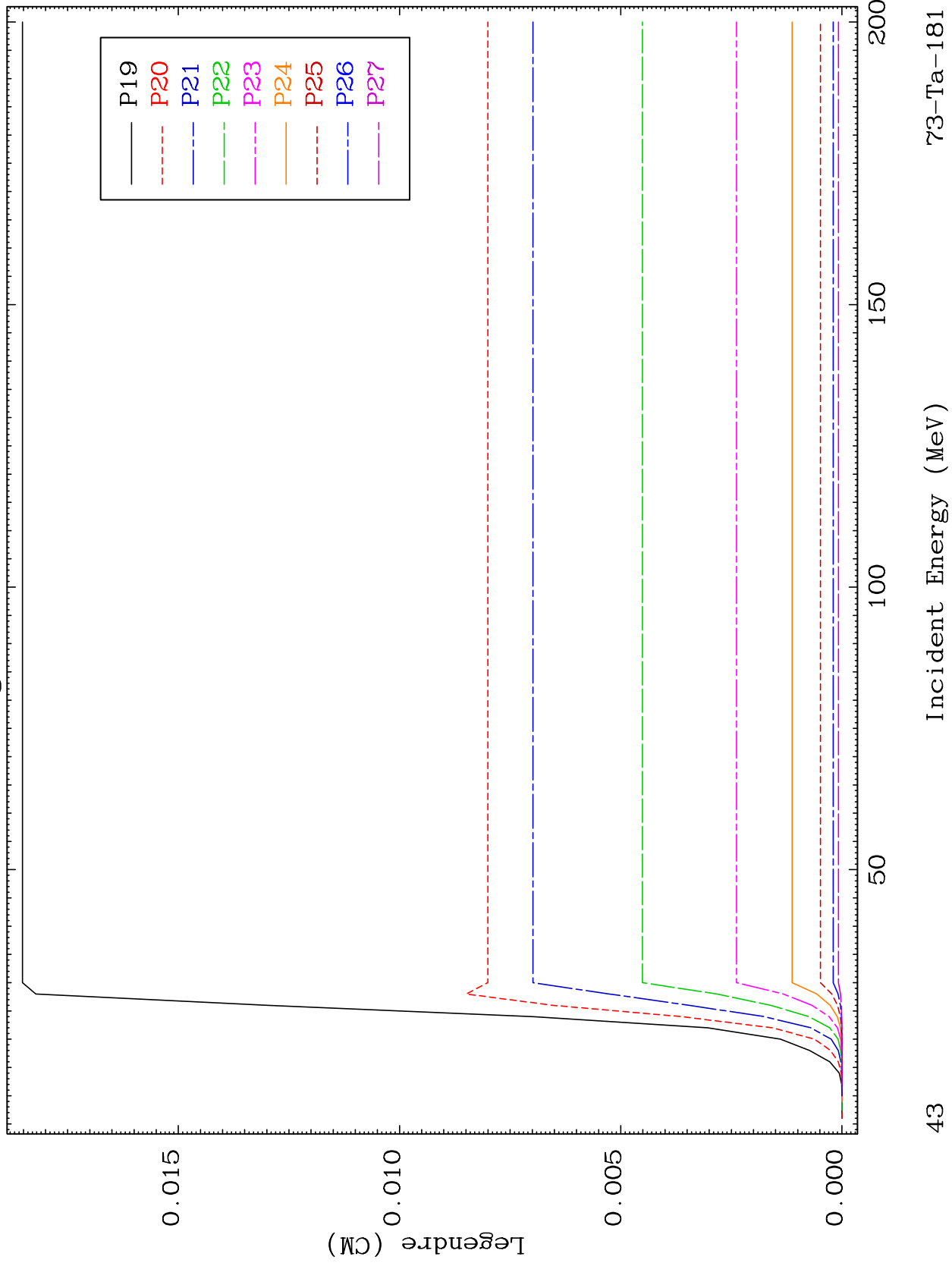
41



MAT 7328

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

73-Ta-181



43

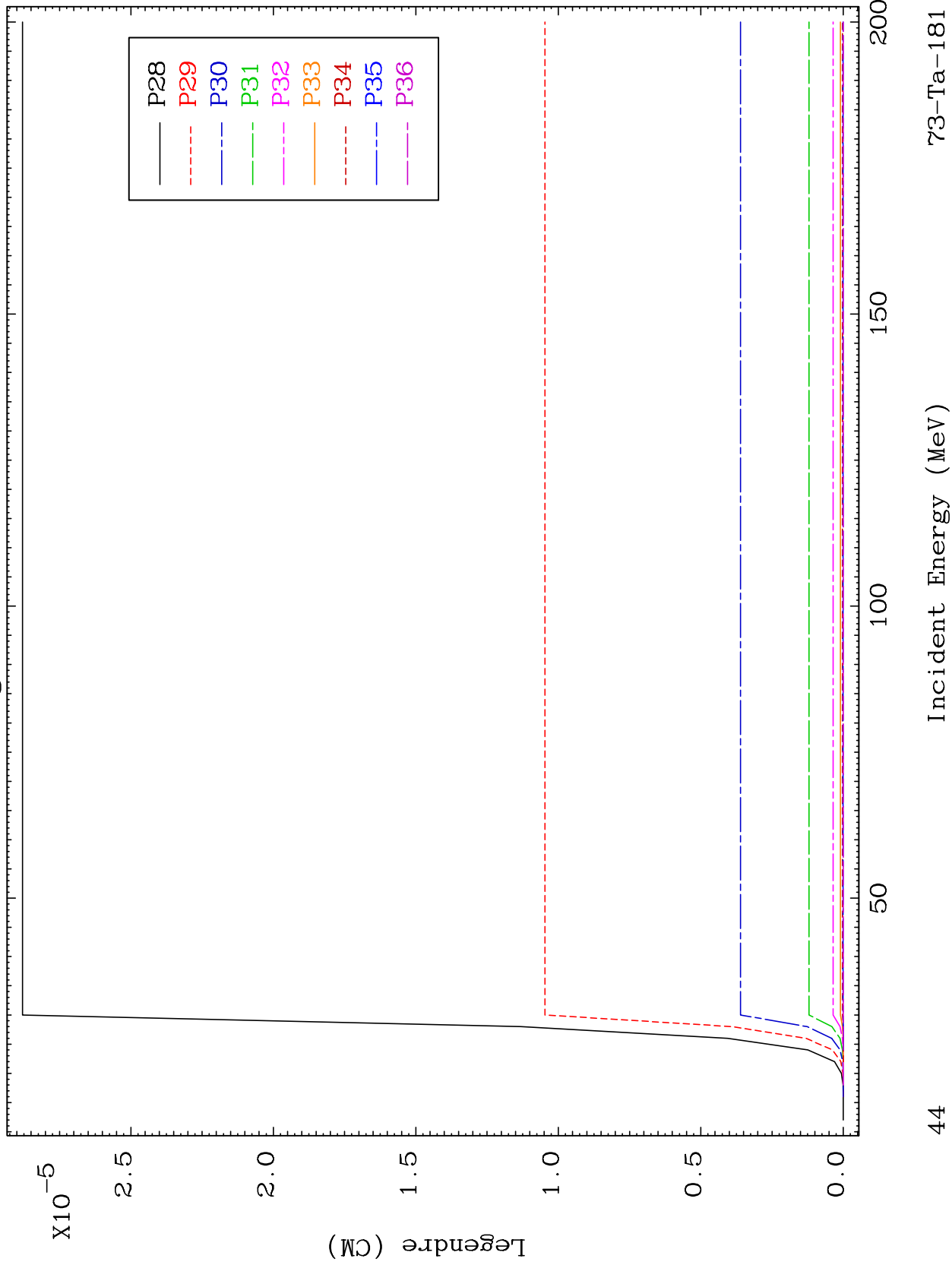
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

73-Ta-181



44

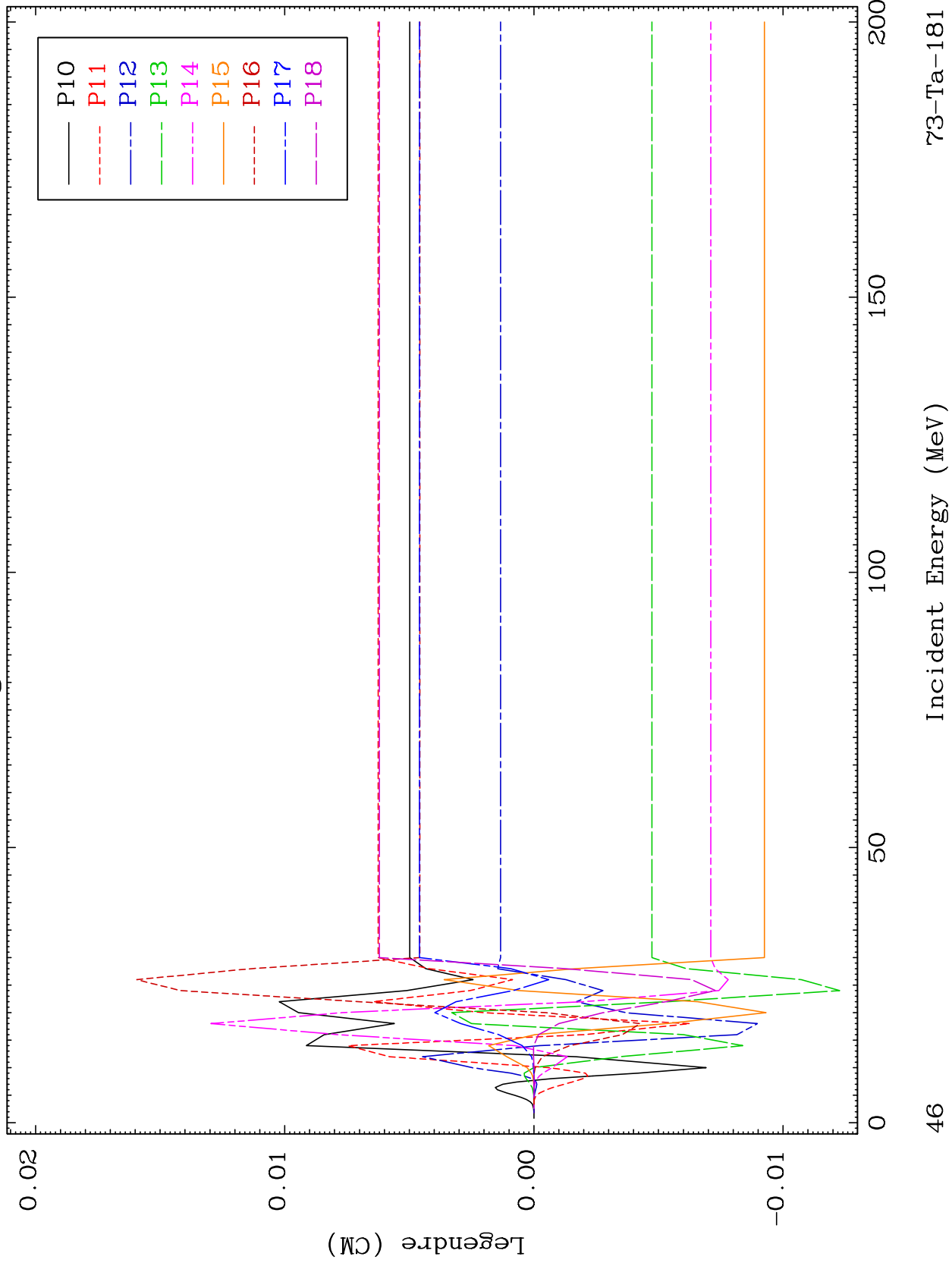
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

73-Ta-181



73-Ta-181

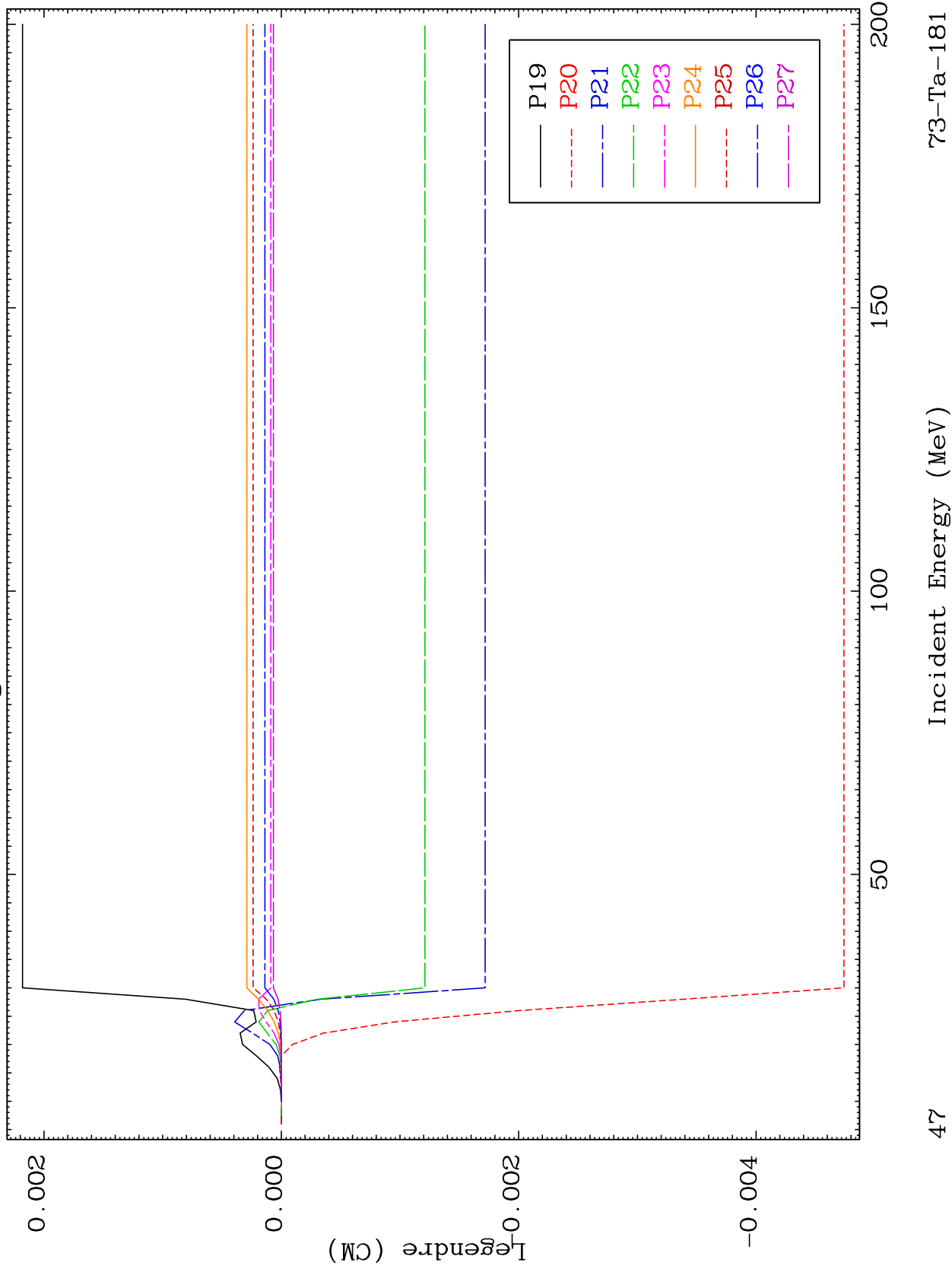
Incident Energy (MeV)

46

MAT 7328

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

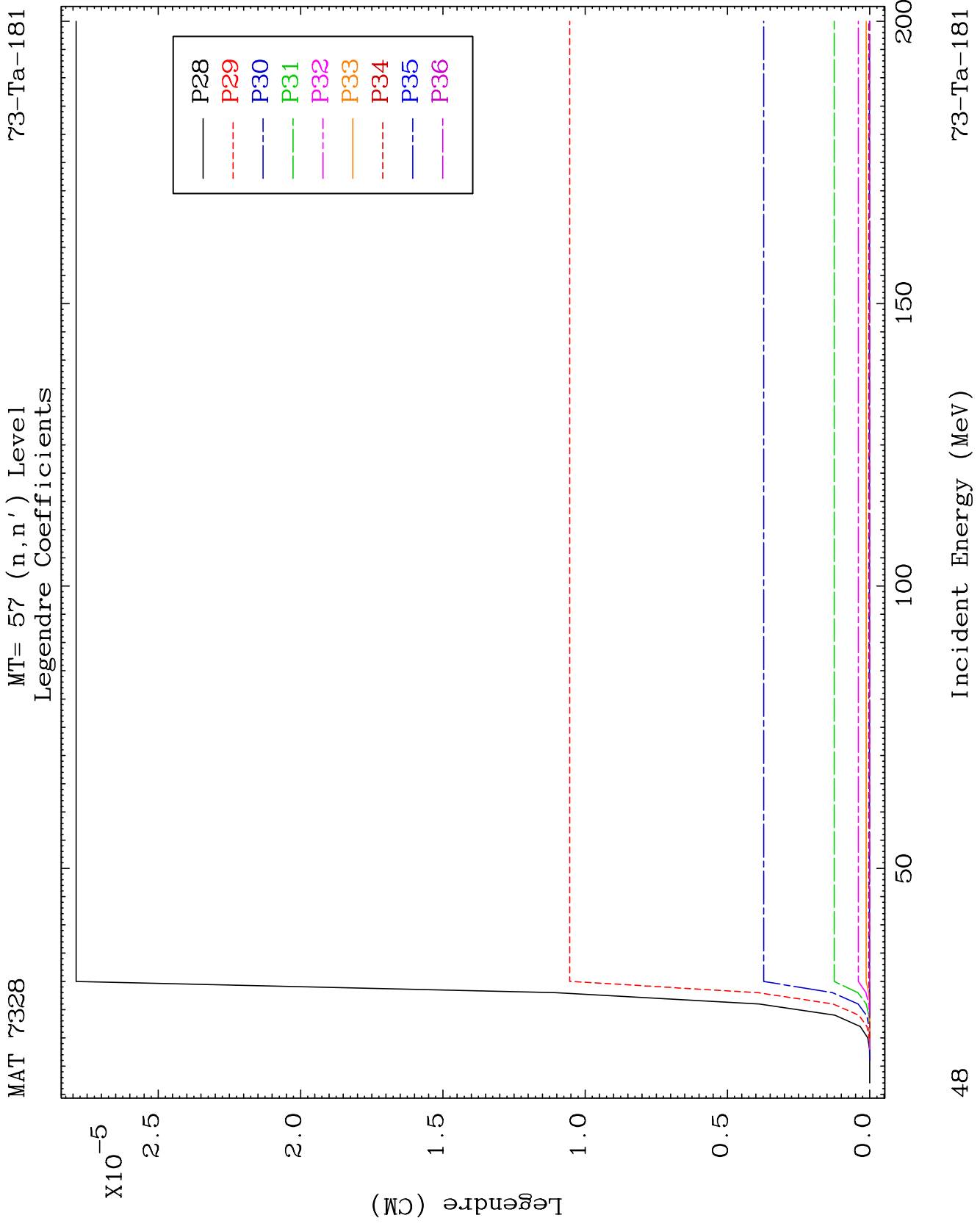
73-Ta-181

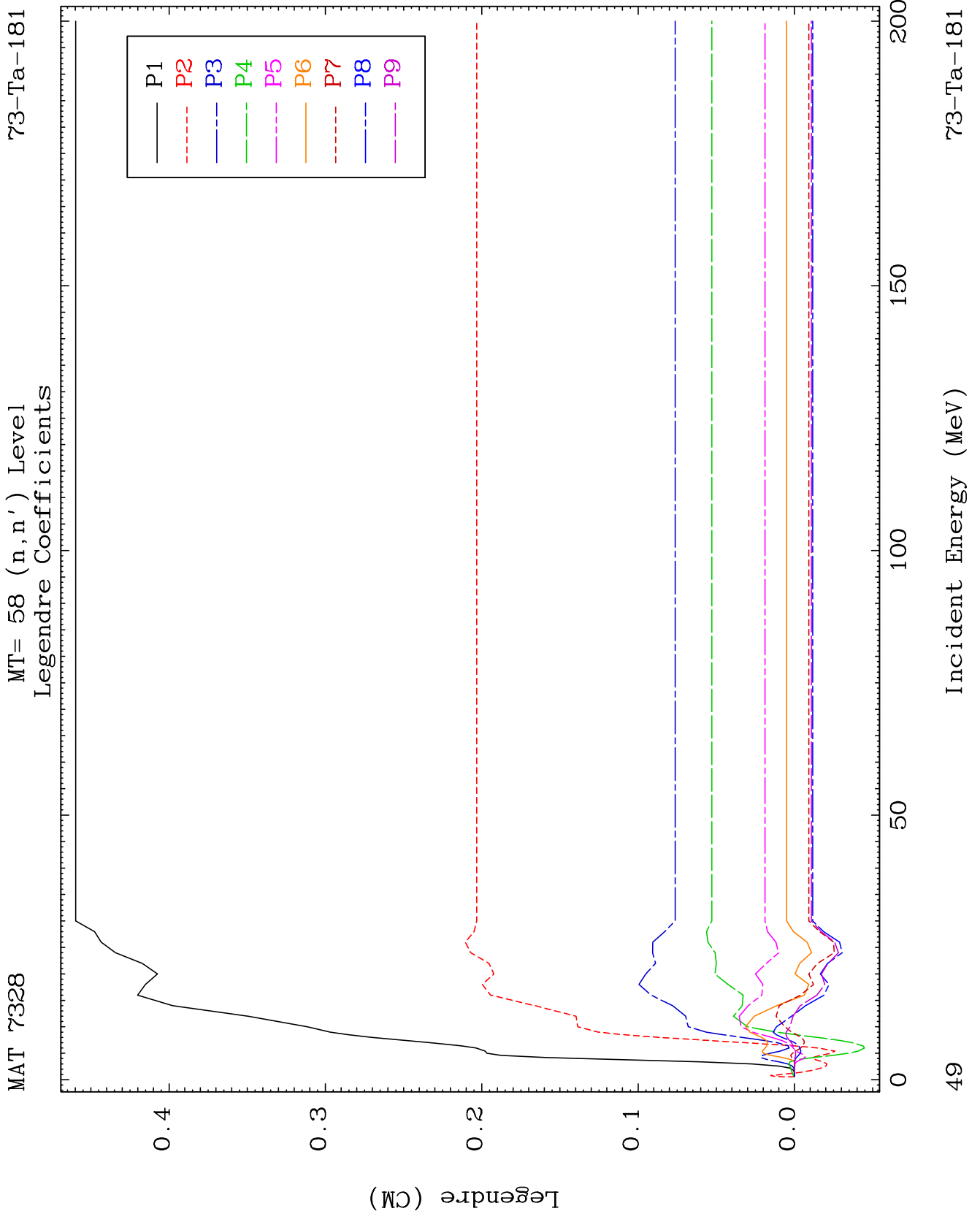


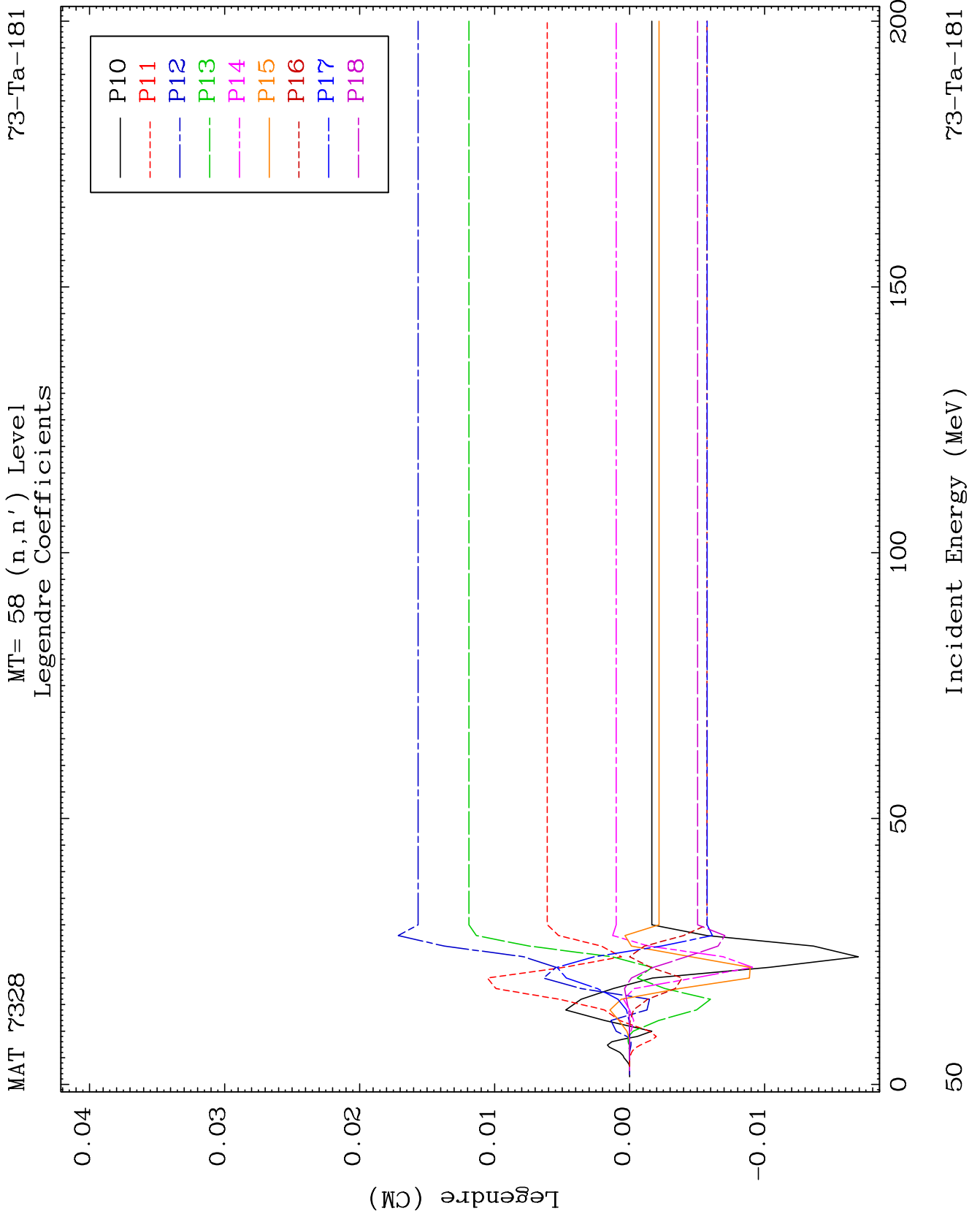
47

Incident Energy (MeV)

73-Ta-181



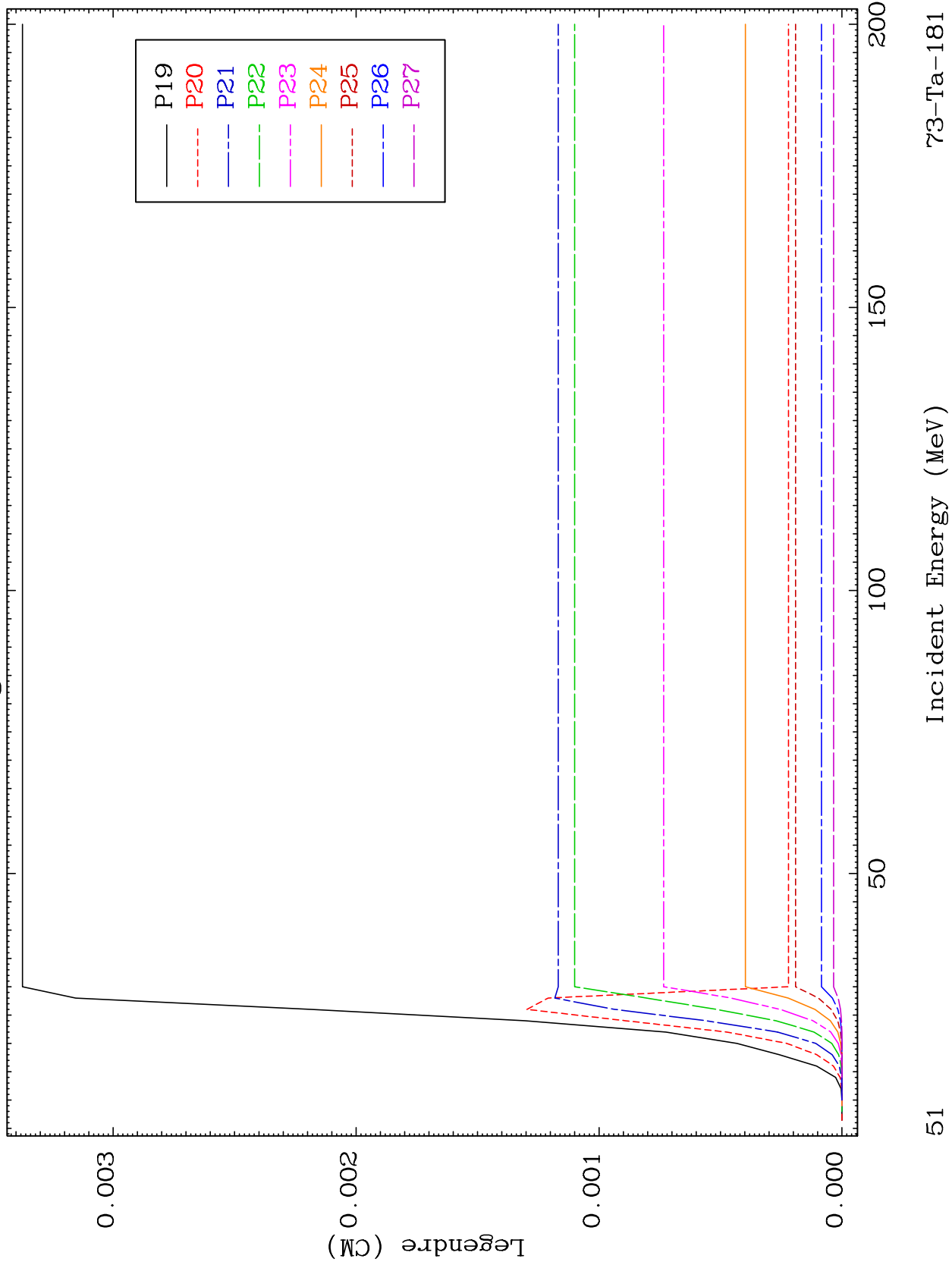




MAT 7328

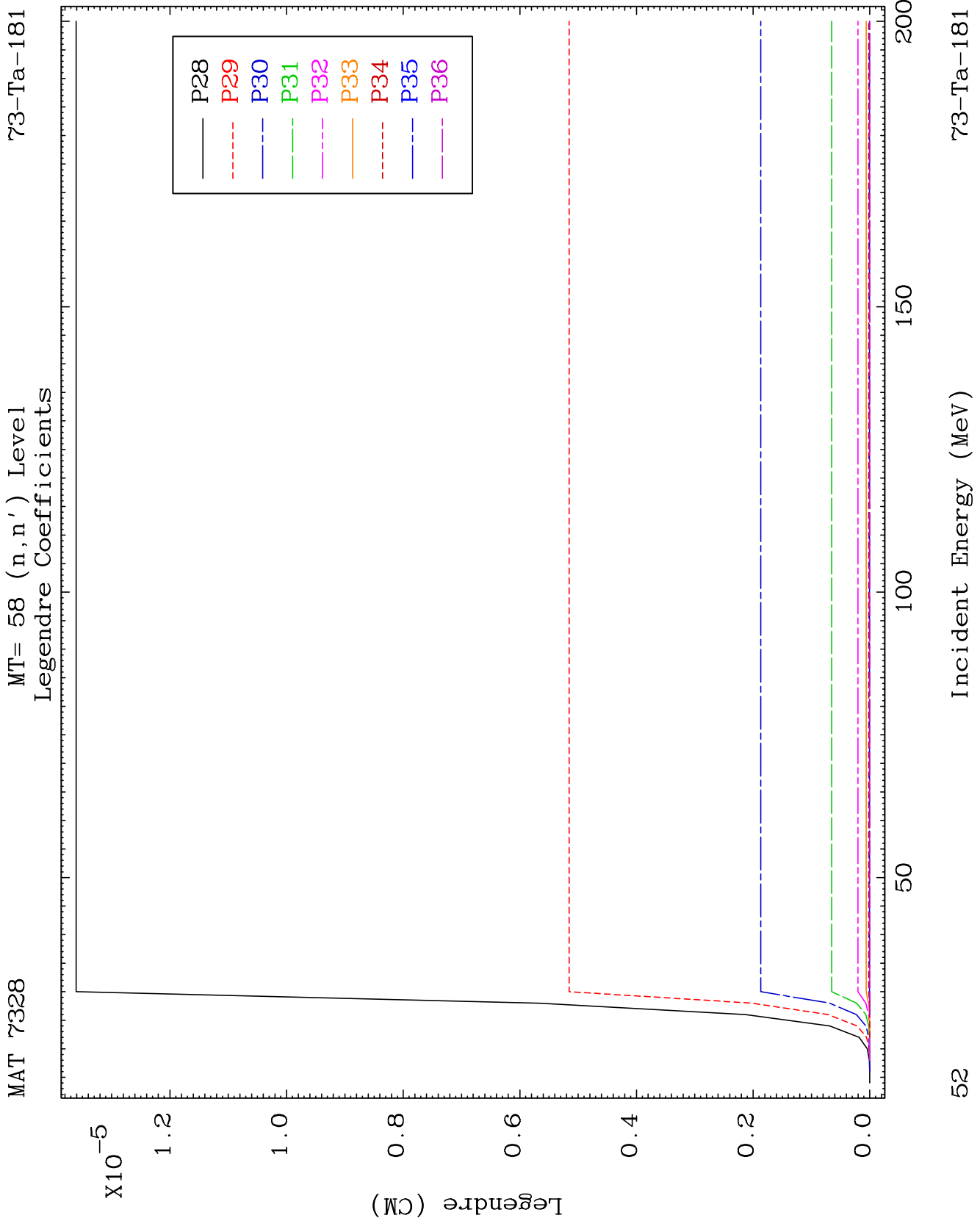
MT= 58 (n,n') Level
Legendre Coefficients

73-Ta-181



51

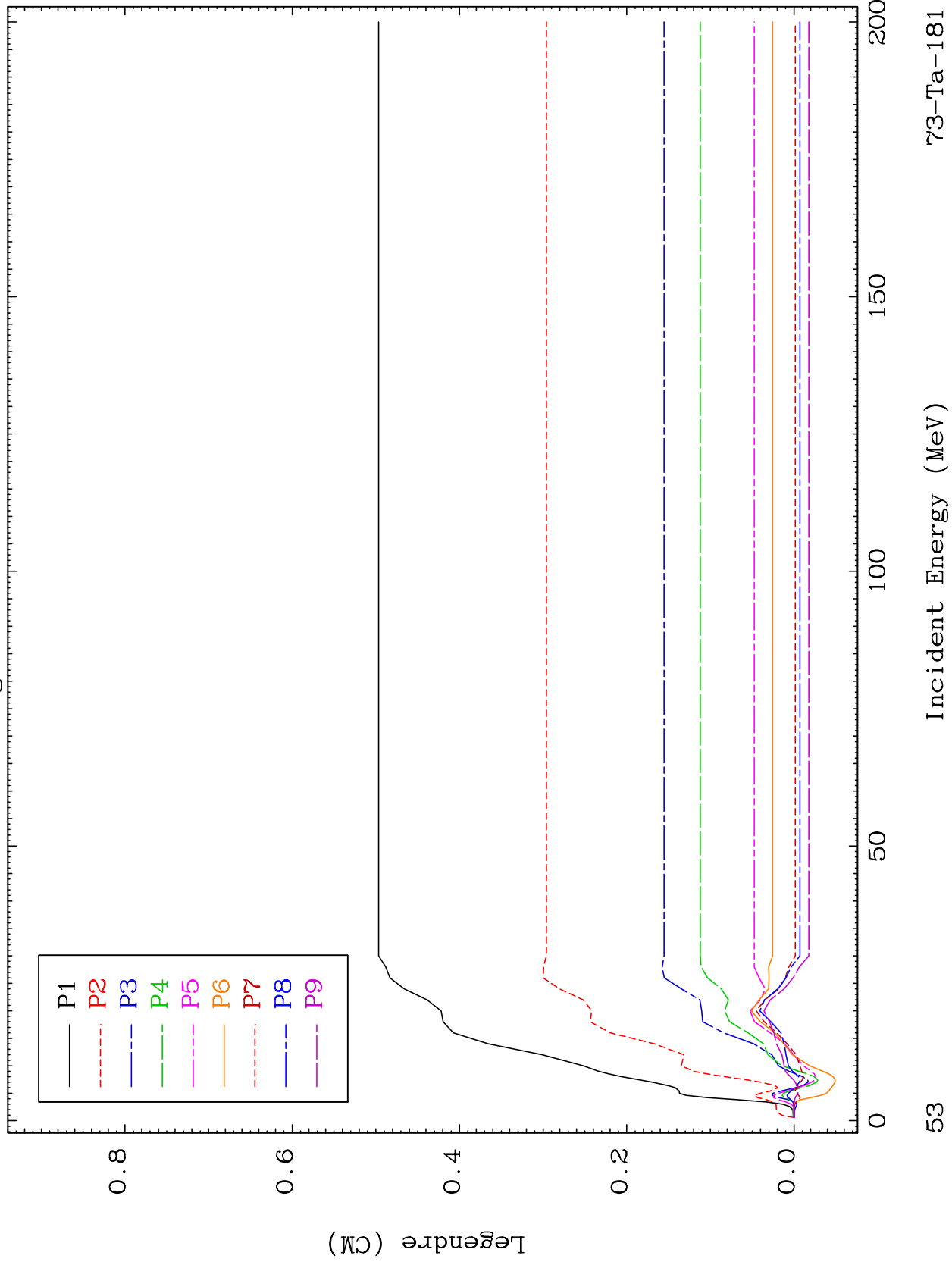
73-Ta-181



MAT 7328

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

73-Ta-181



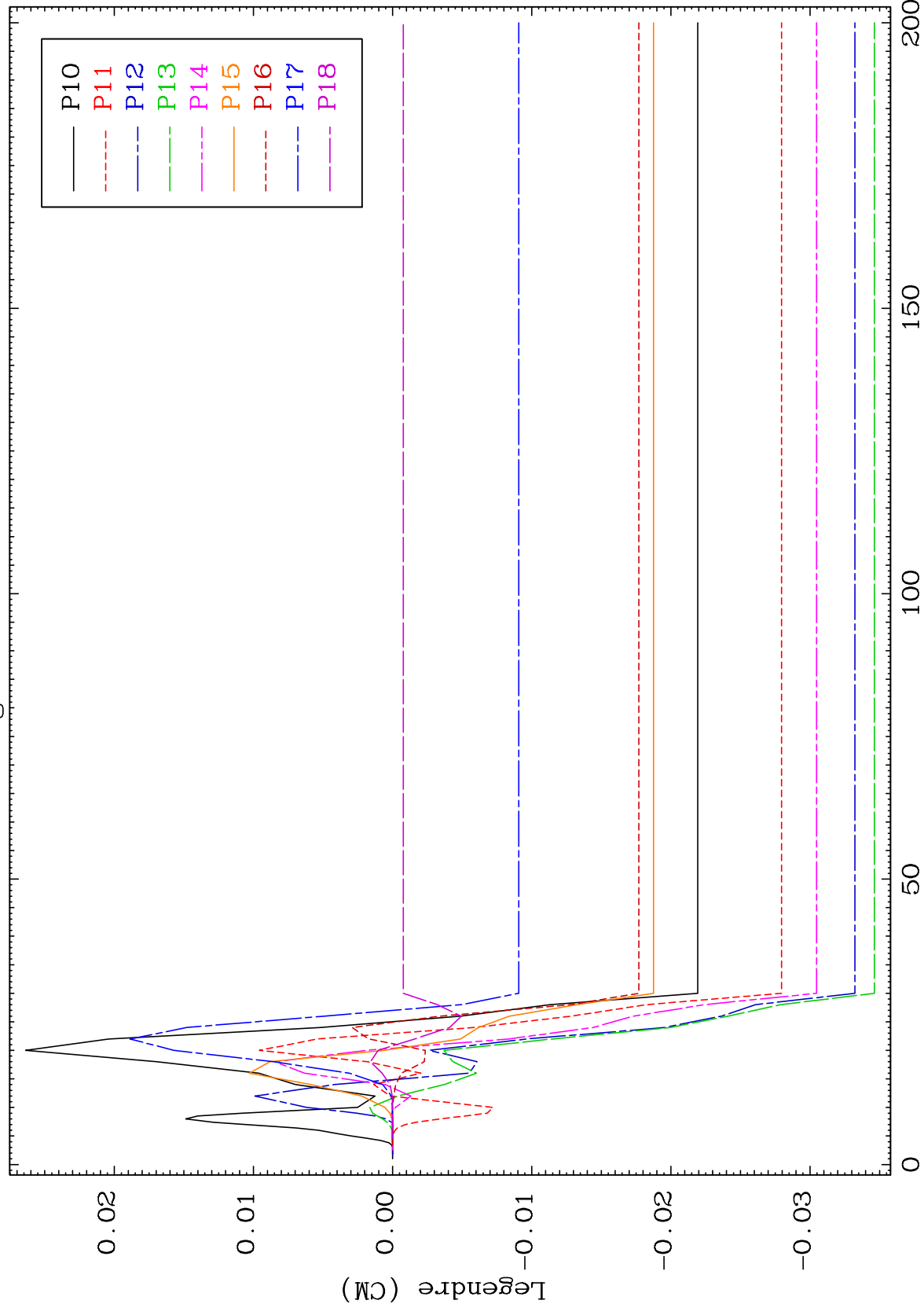
53

73-Ta-181

MAT 7328

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

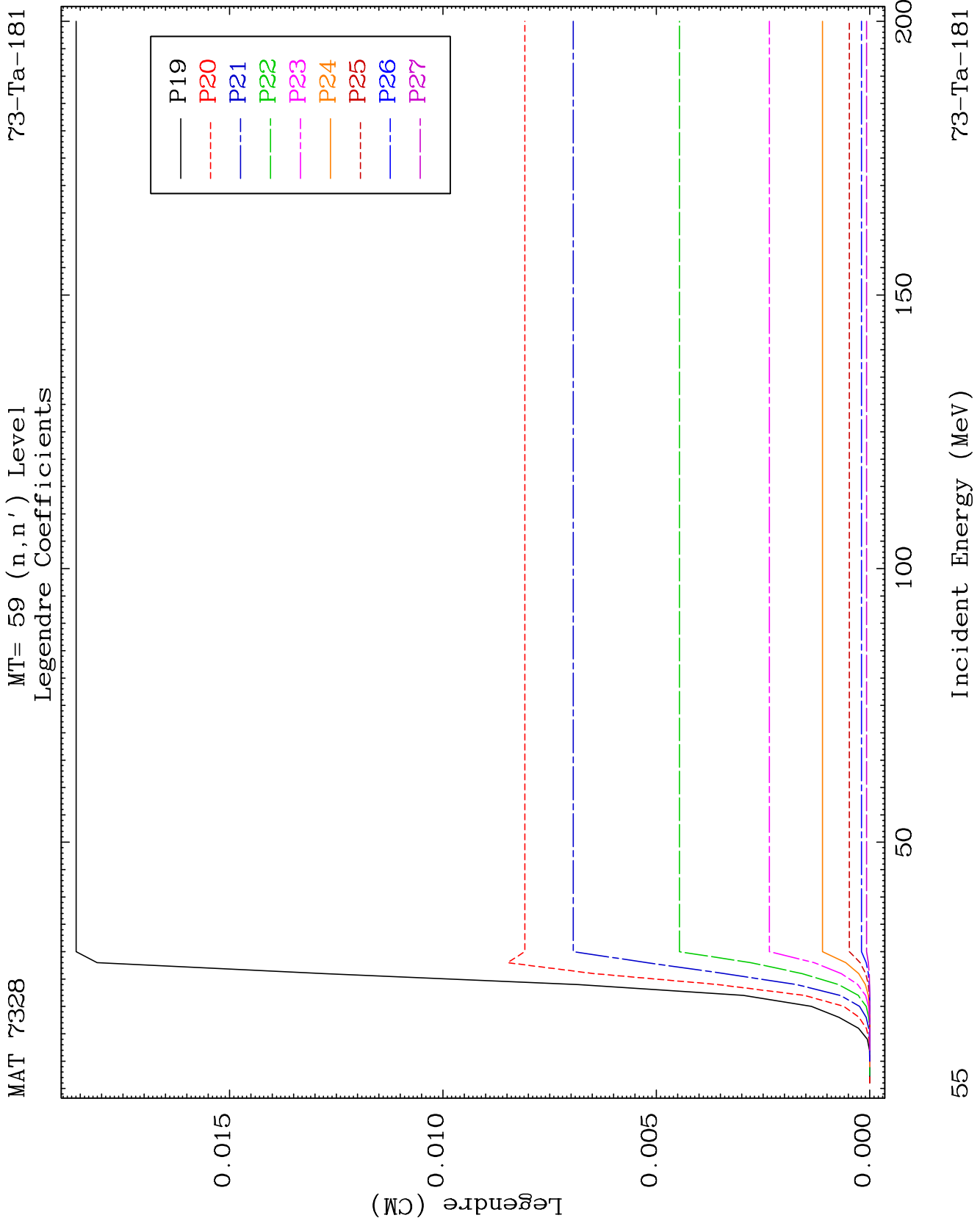
73-Ta-181



54

Incident Energy (MeV)

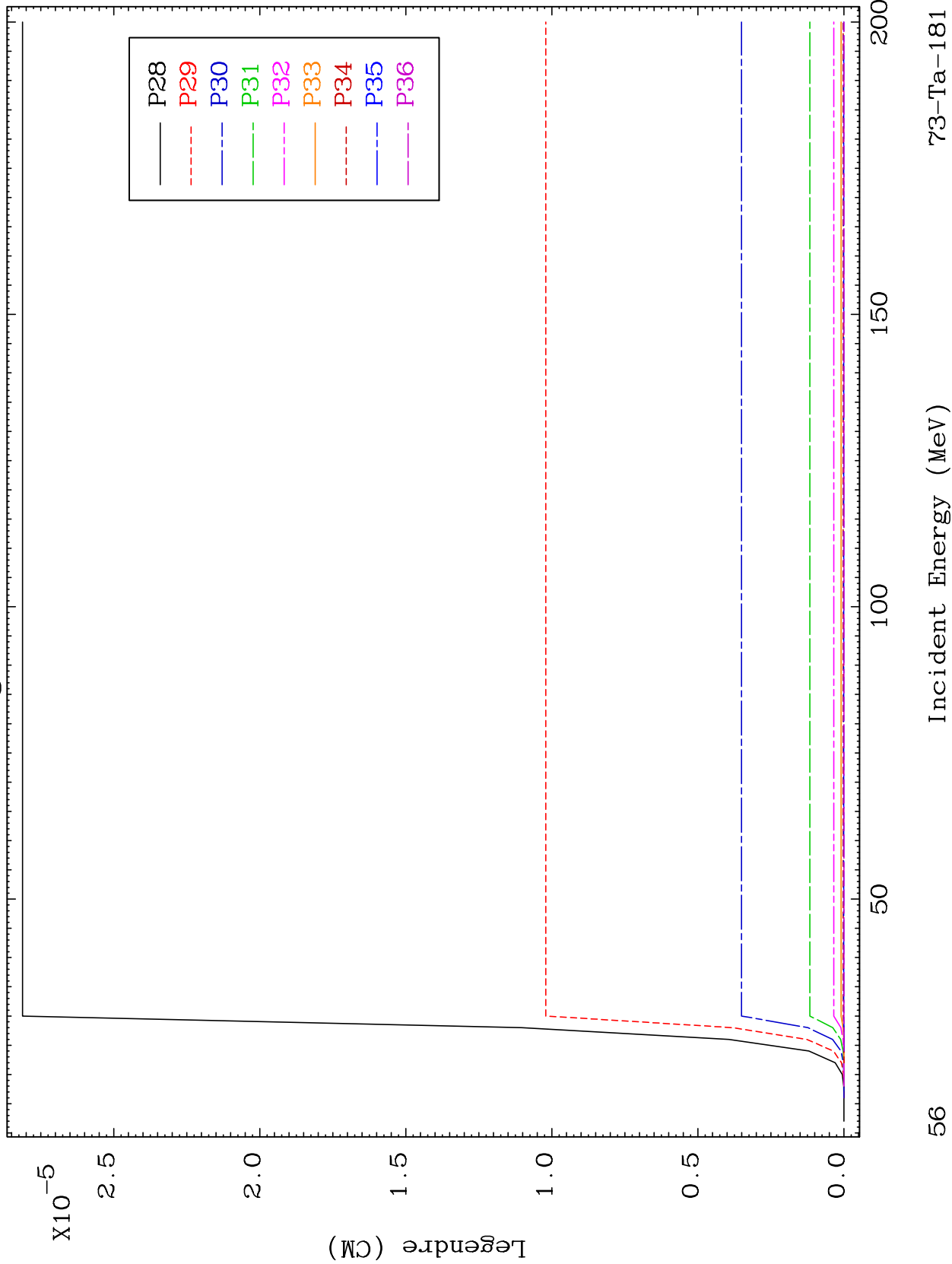
73-Ta-181



MAT 7328

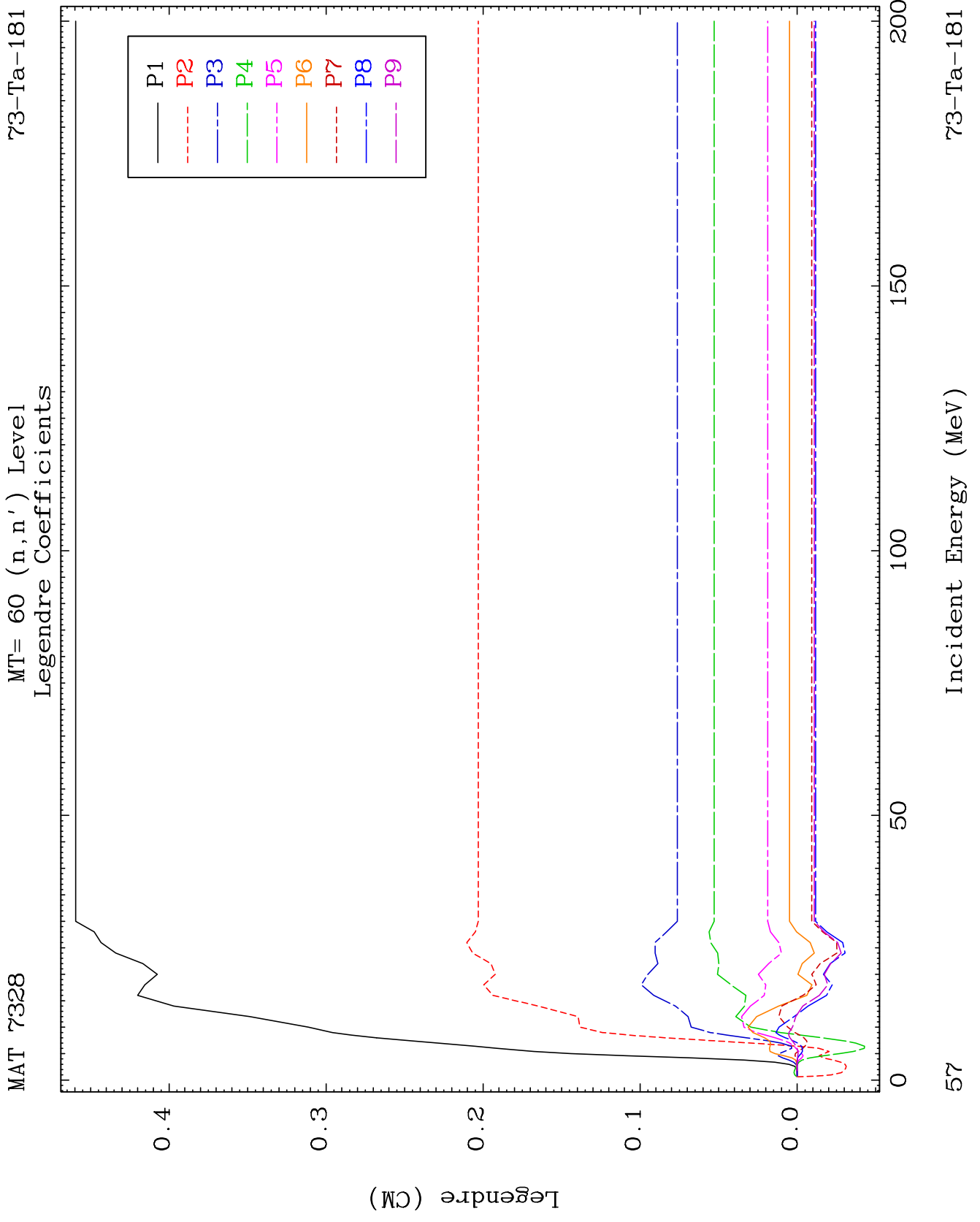
MT= 59 (n,n') Level
Legendre Coefficients

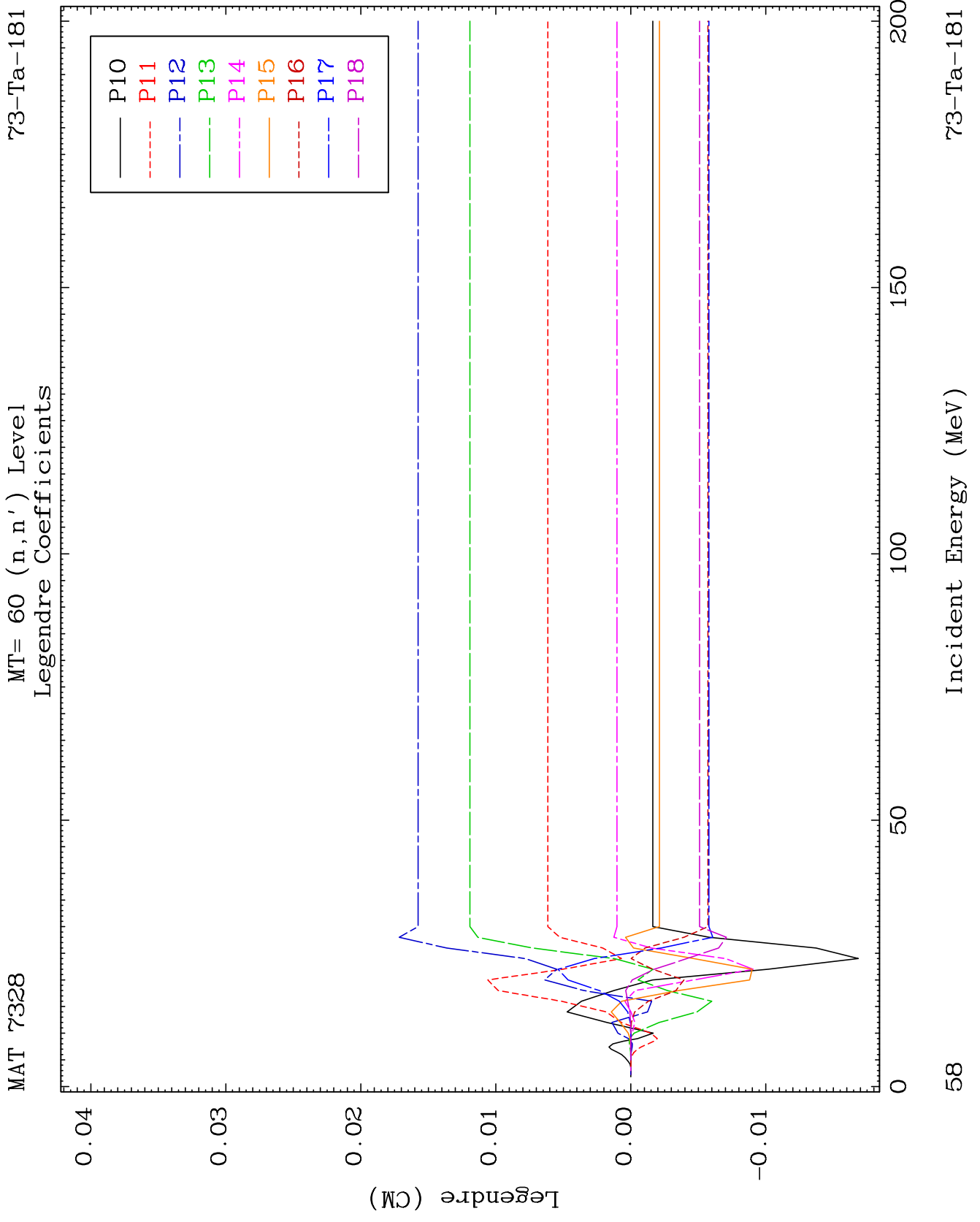
73-Ta-181



56

73-Ta-181





73-Ta-181

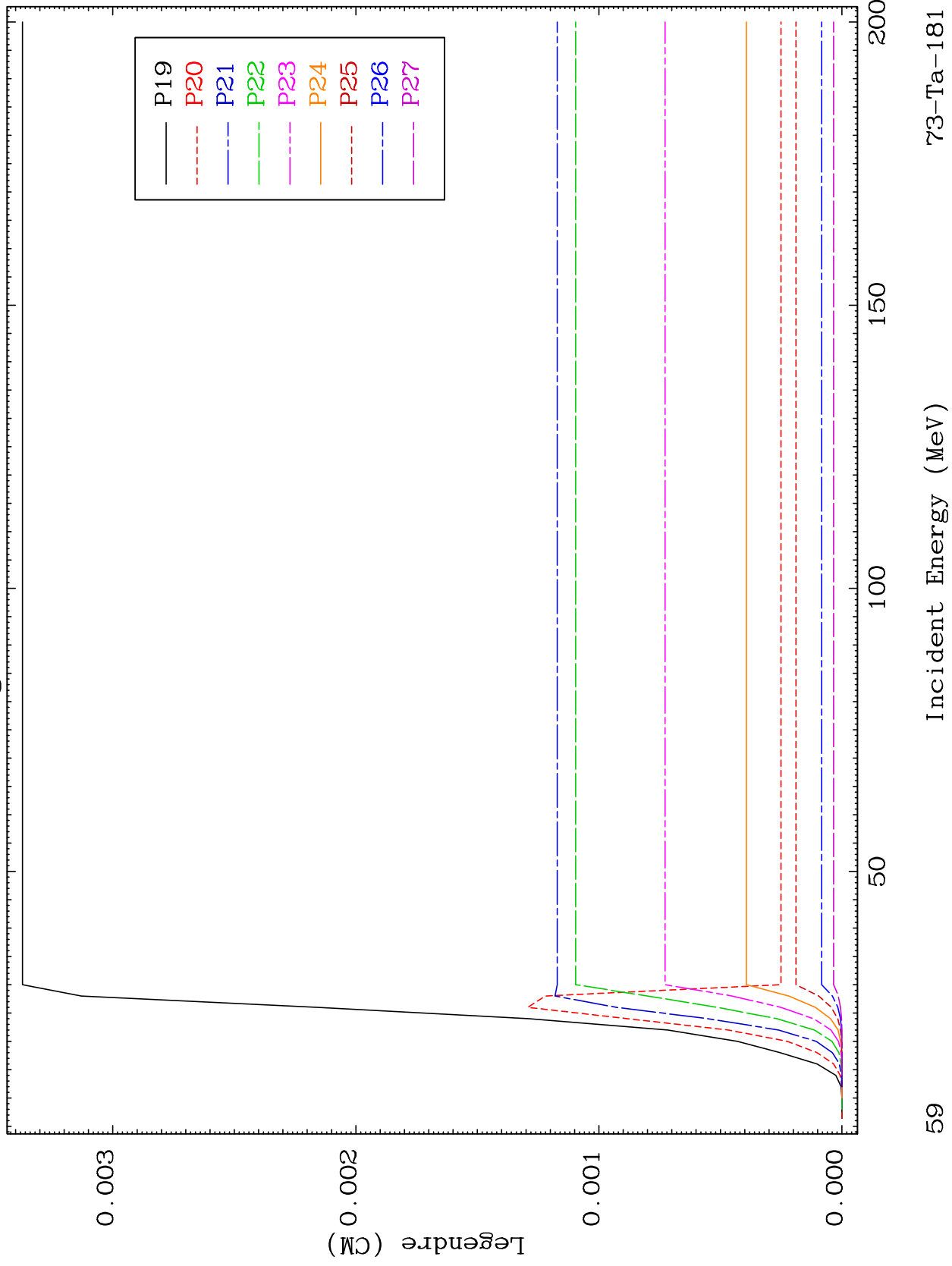
Incident Energy (MeV)

58

MAT 7328

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

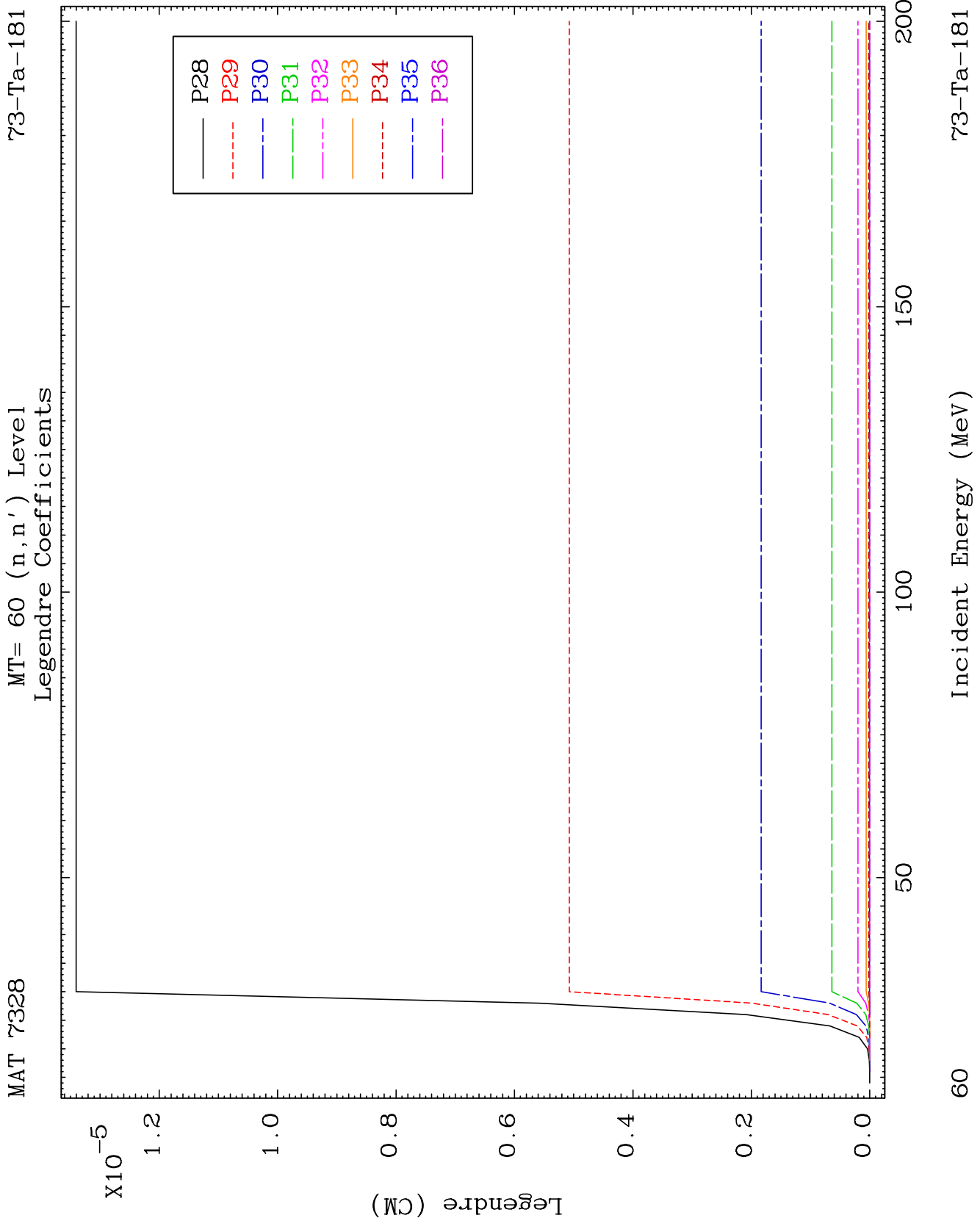
73-Ta-181



59

Incident Energy (MeV)

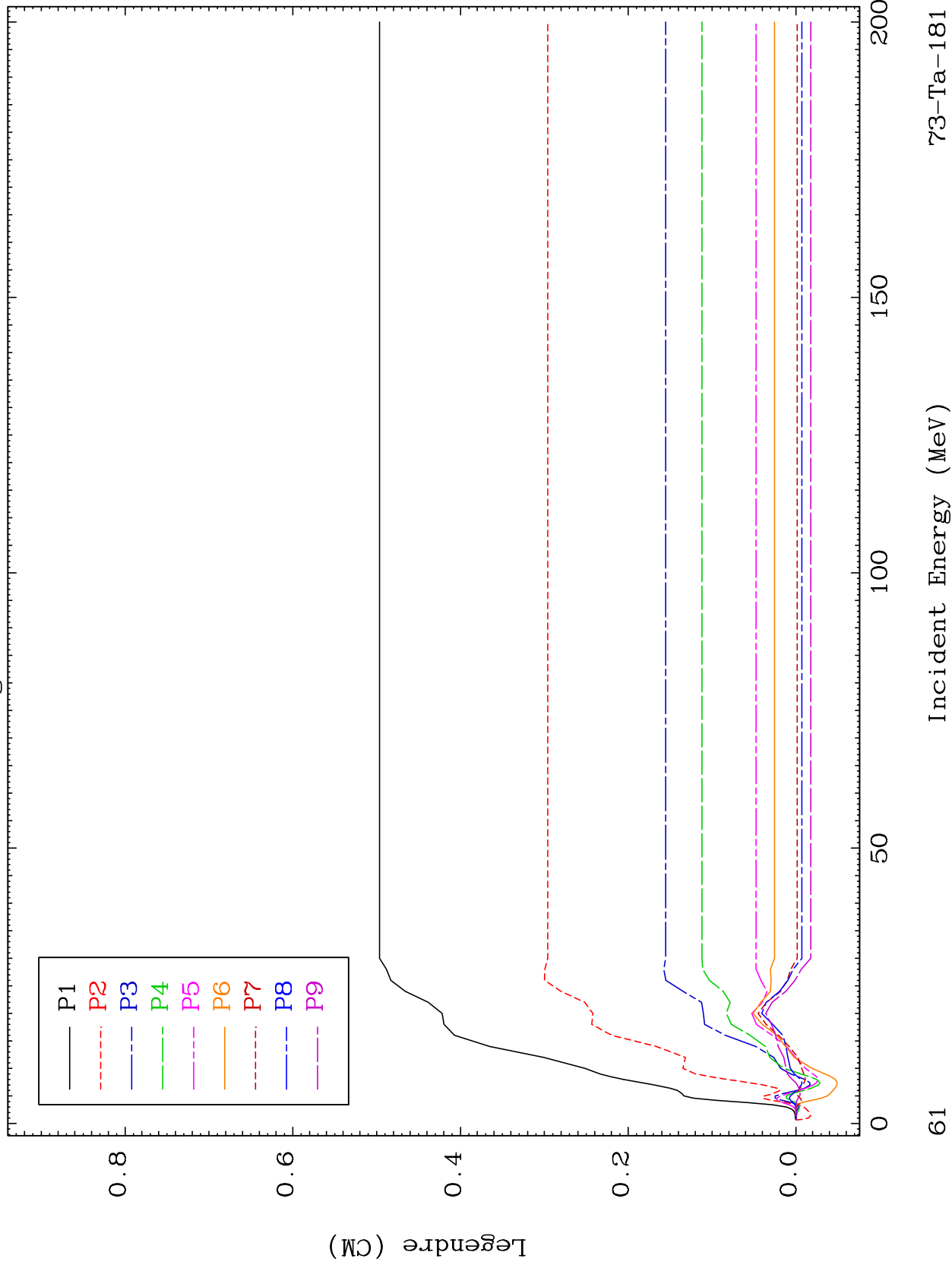
73-Ta-181

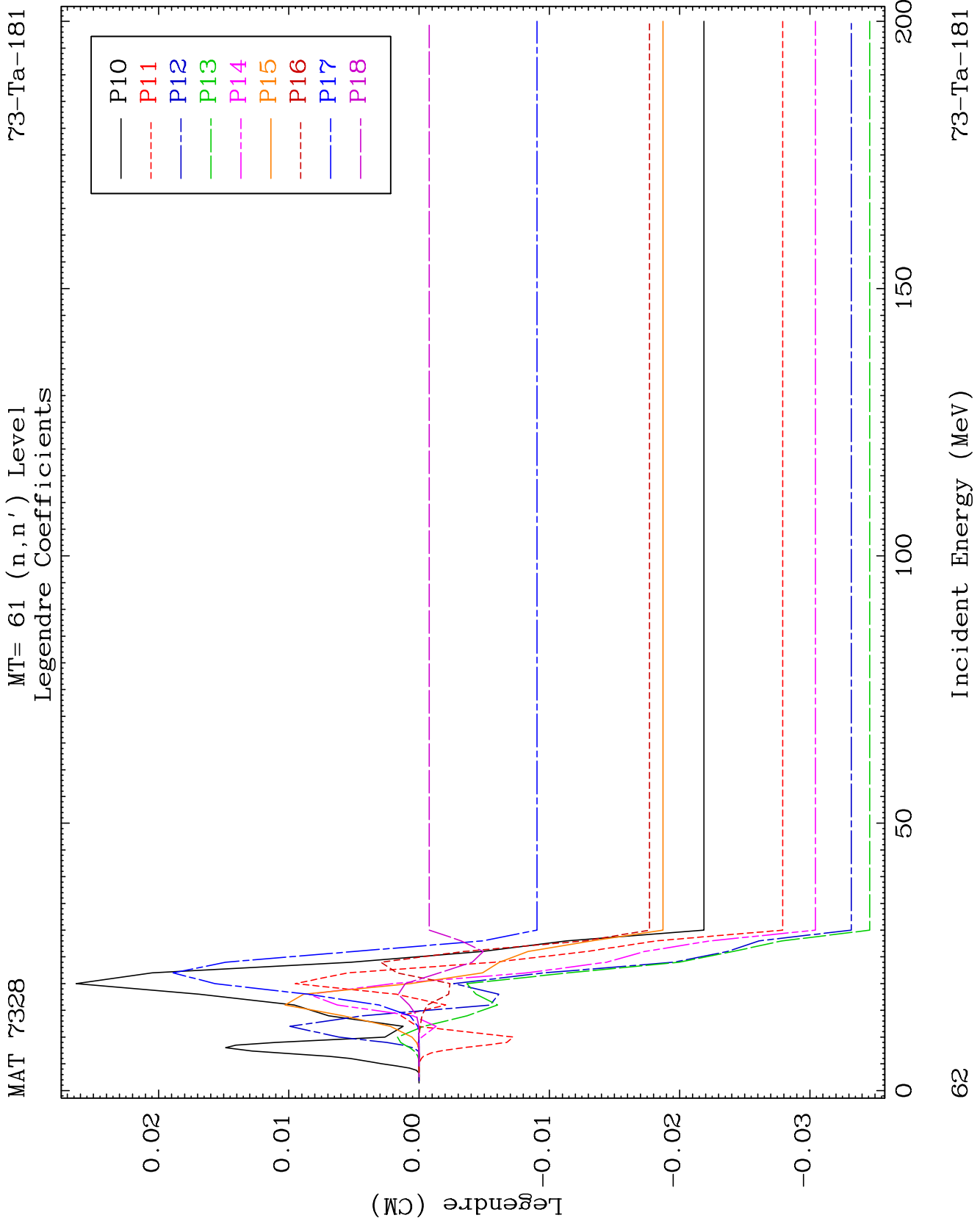


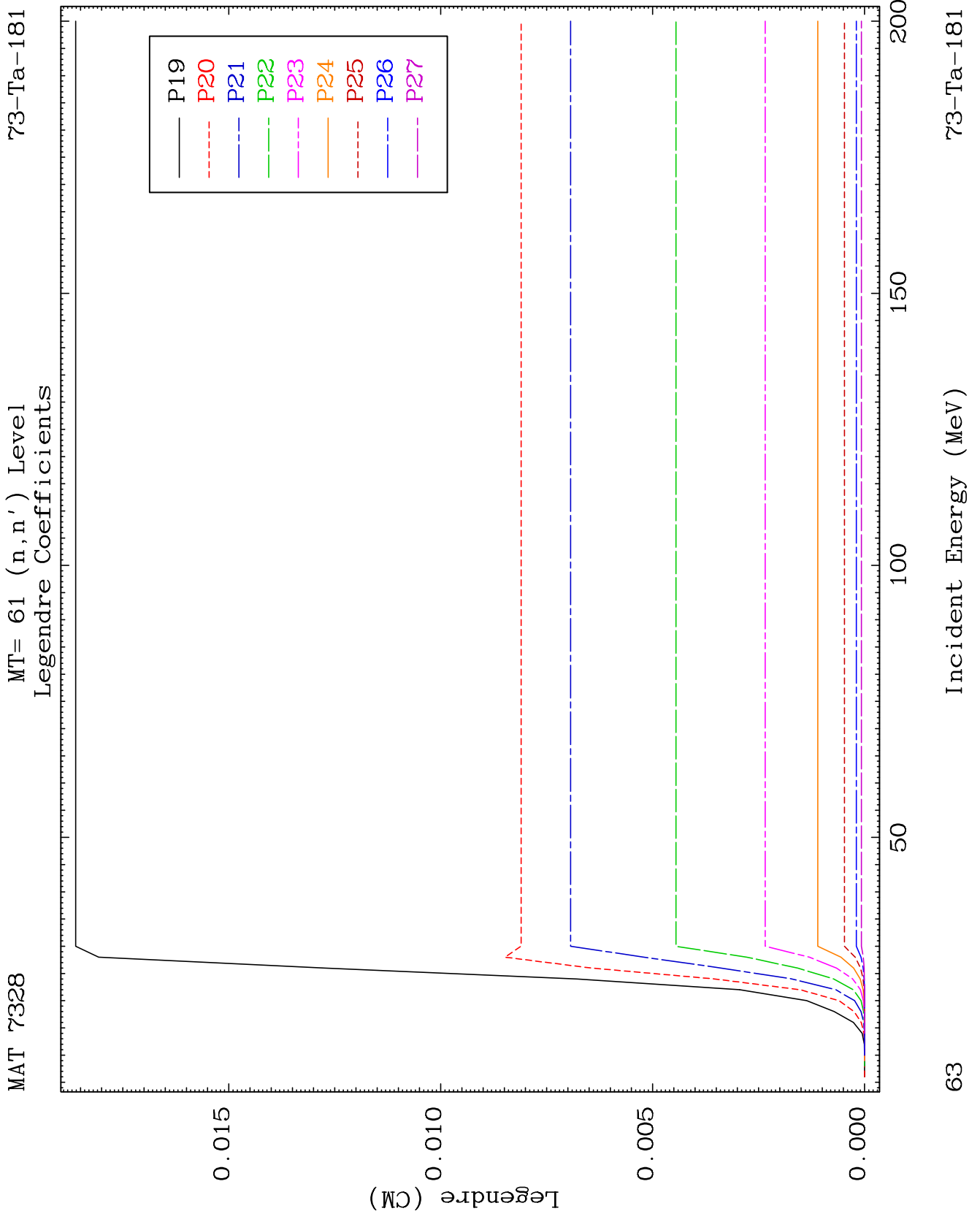
MAT 7328

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

73-Ta-181



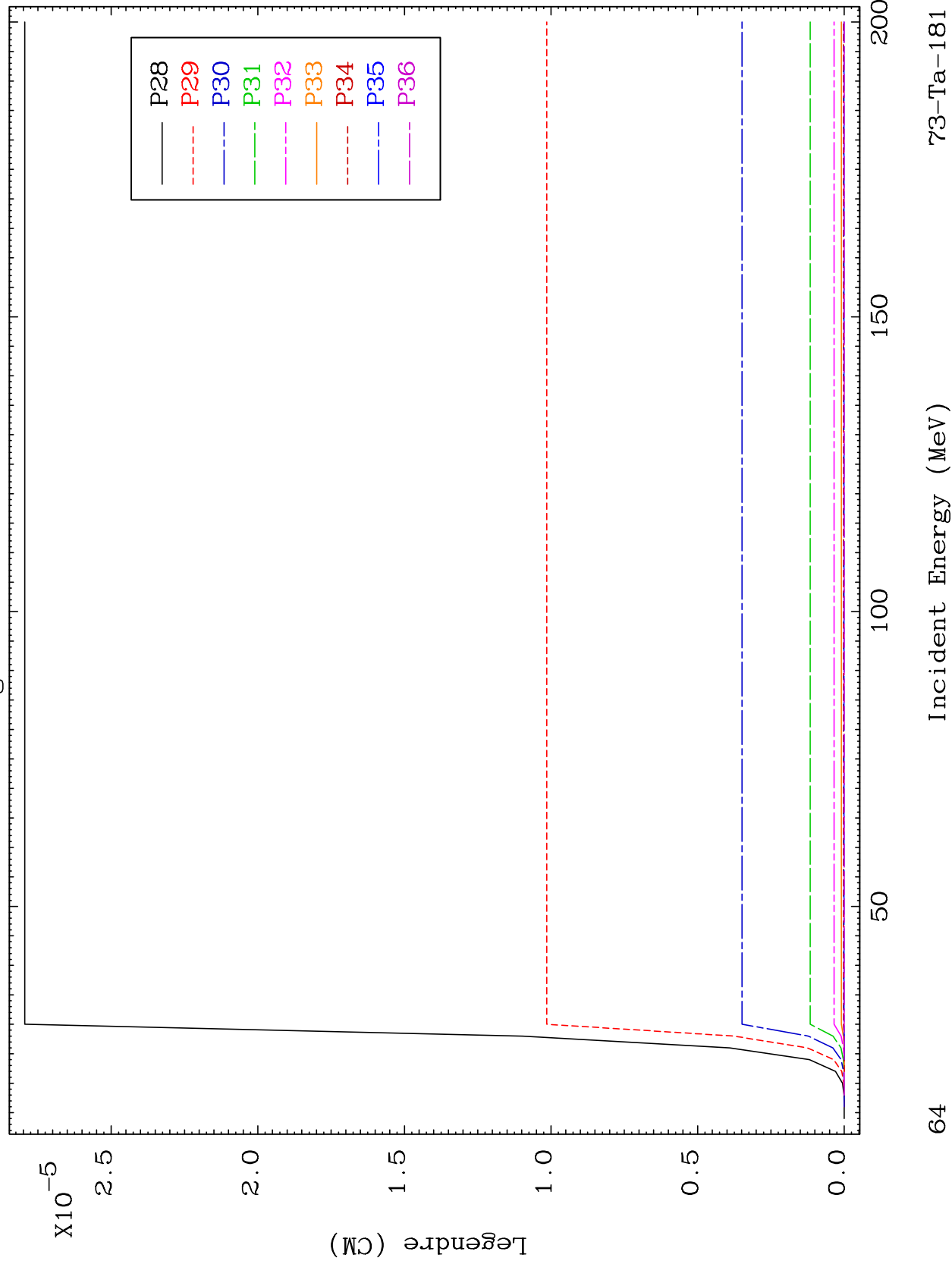




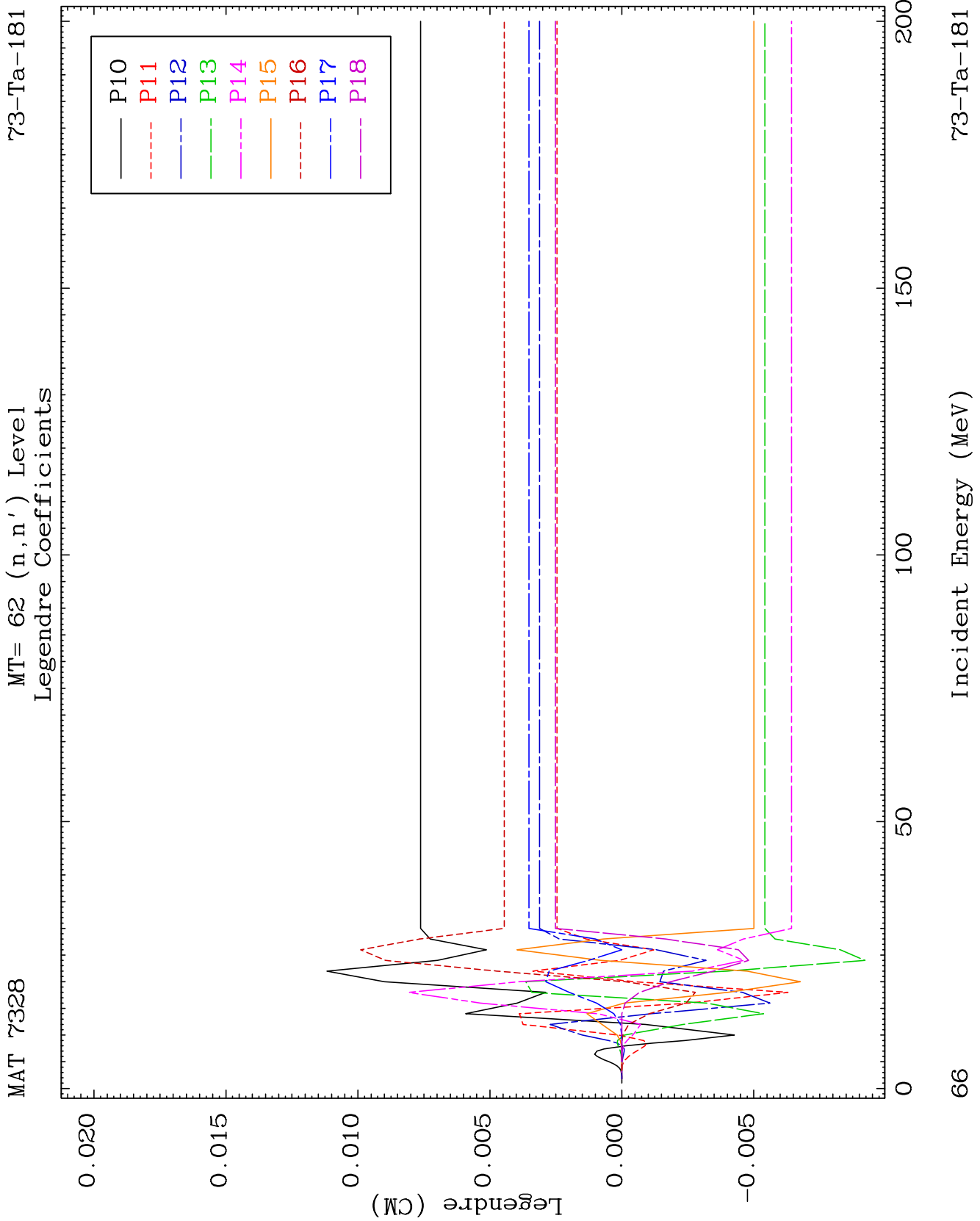
MAT 7328

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

73-Ta-181



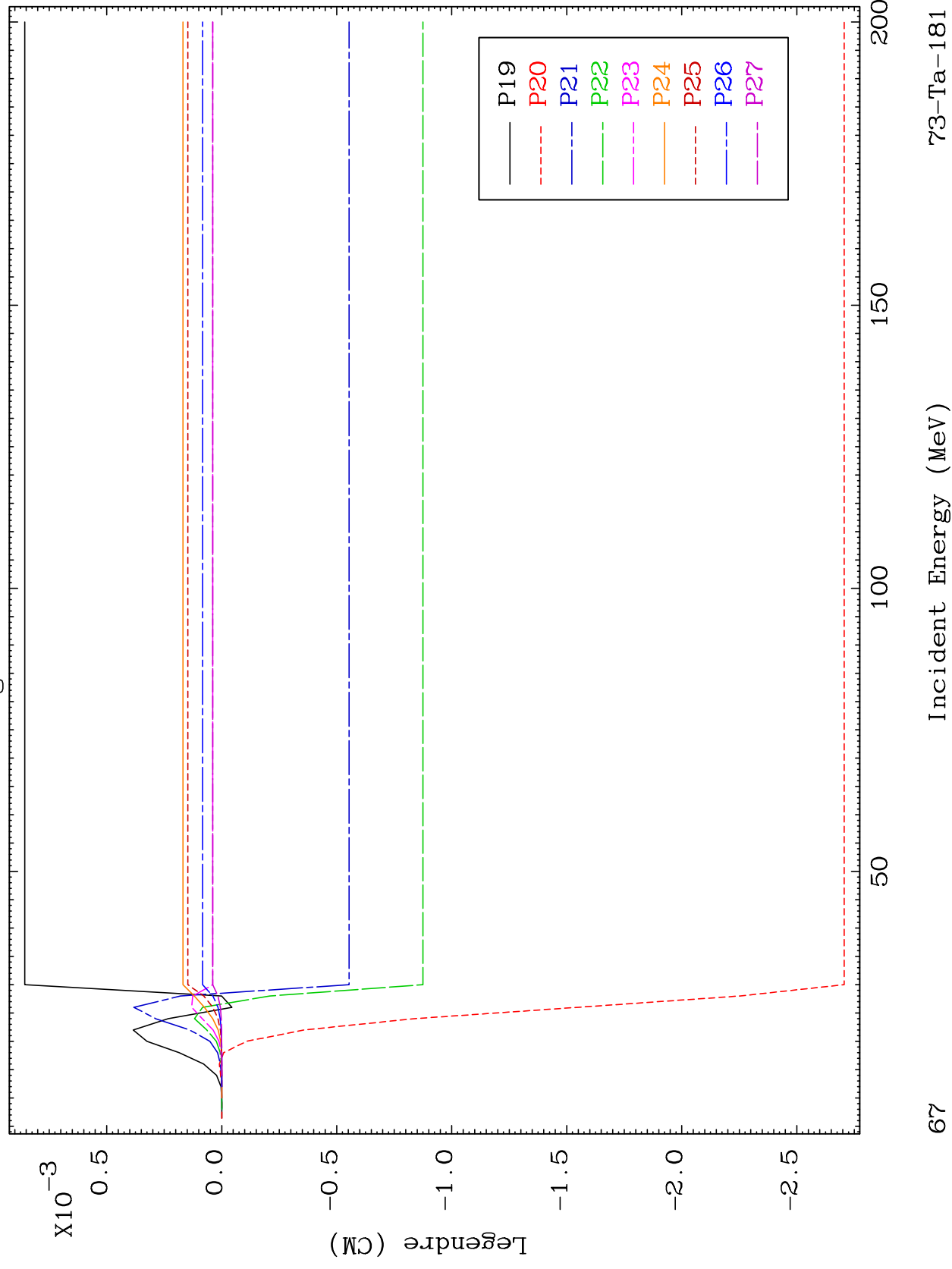
64



MAT 7328

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

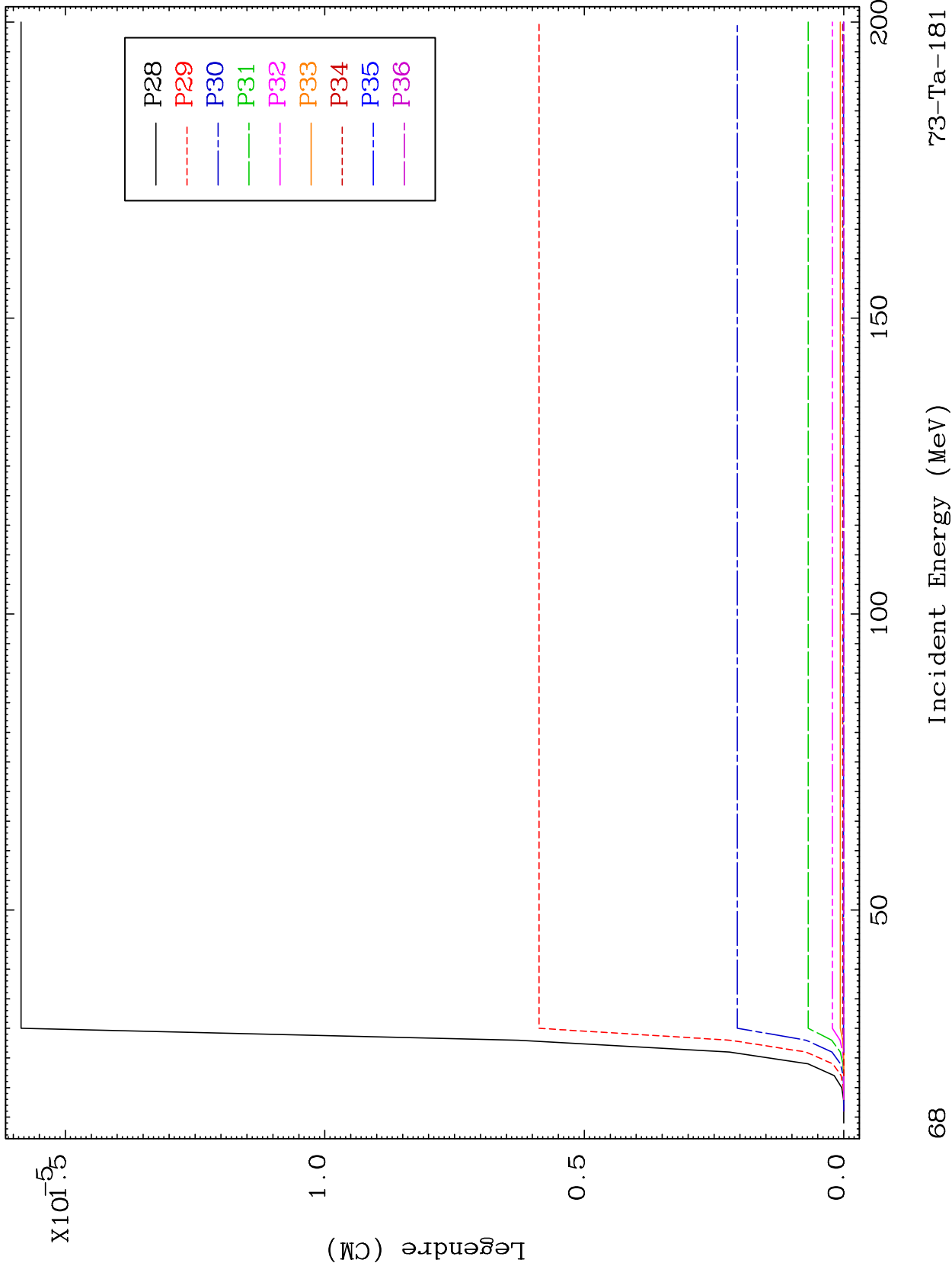
73-Ta-181



MAT 7328

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

73-Ta-181



68

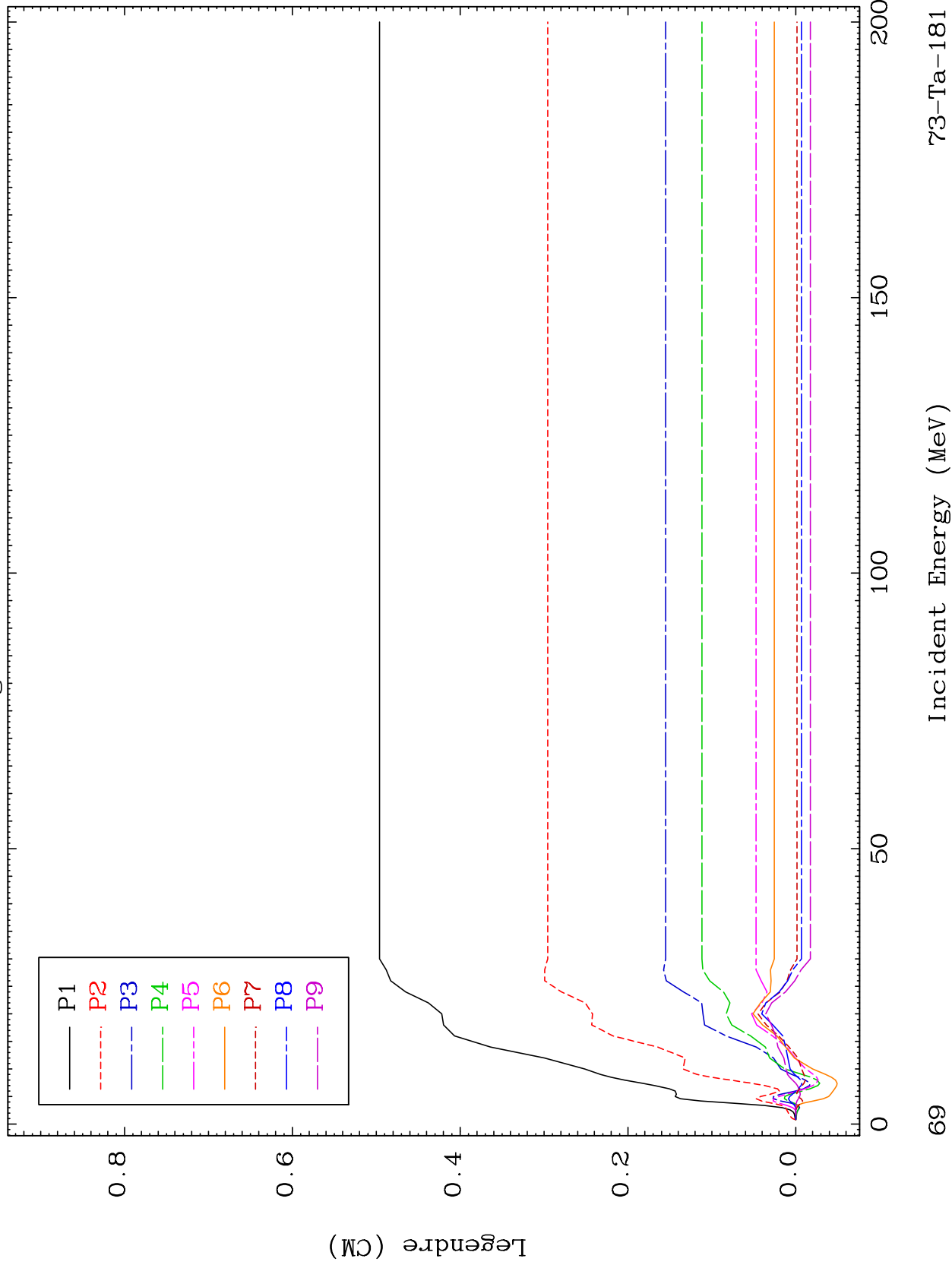
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

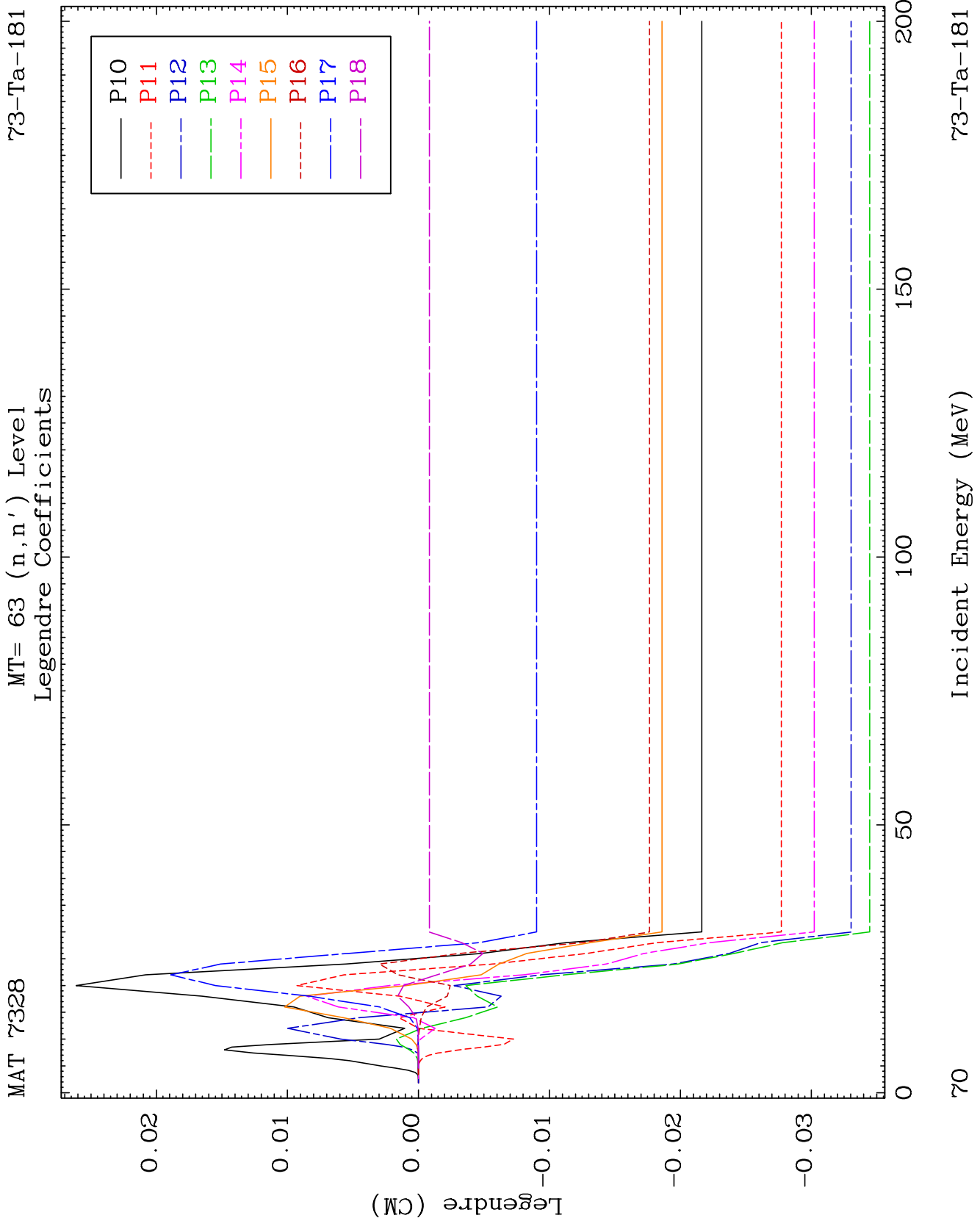
73-Ta-181



69

Incident Energy (MeV)

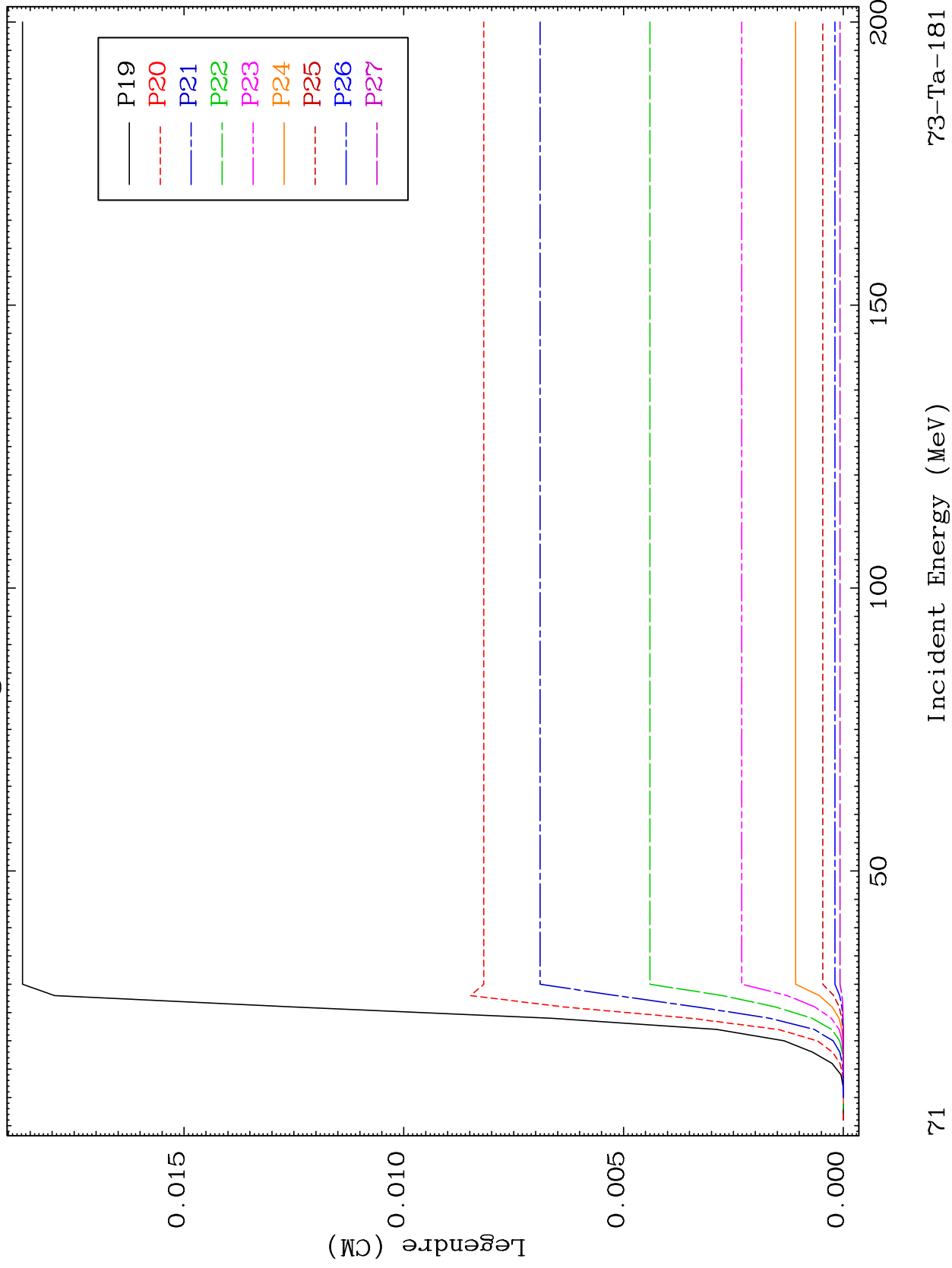
73-Ta-181



MAT 7328

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

73-Ta-181



71

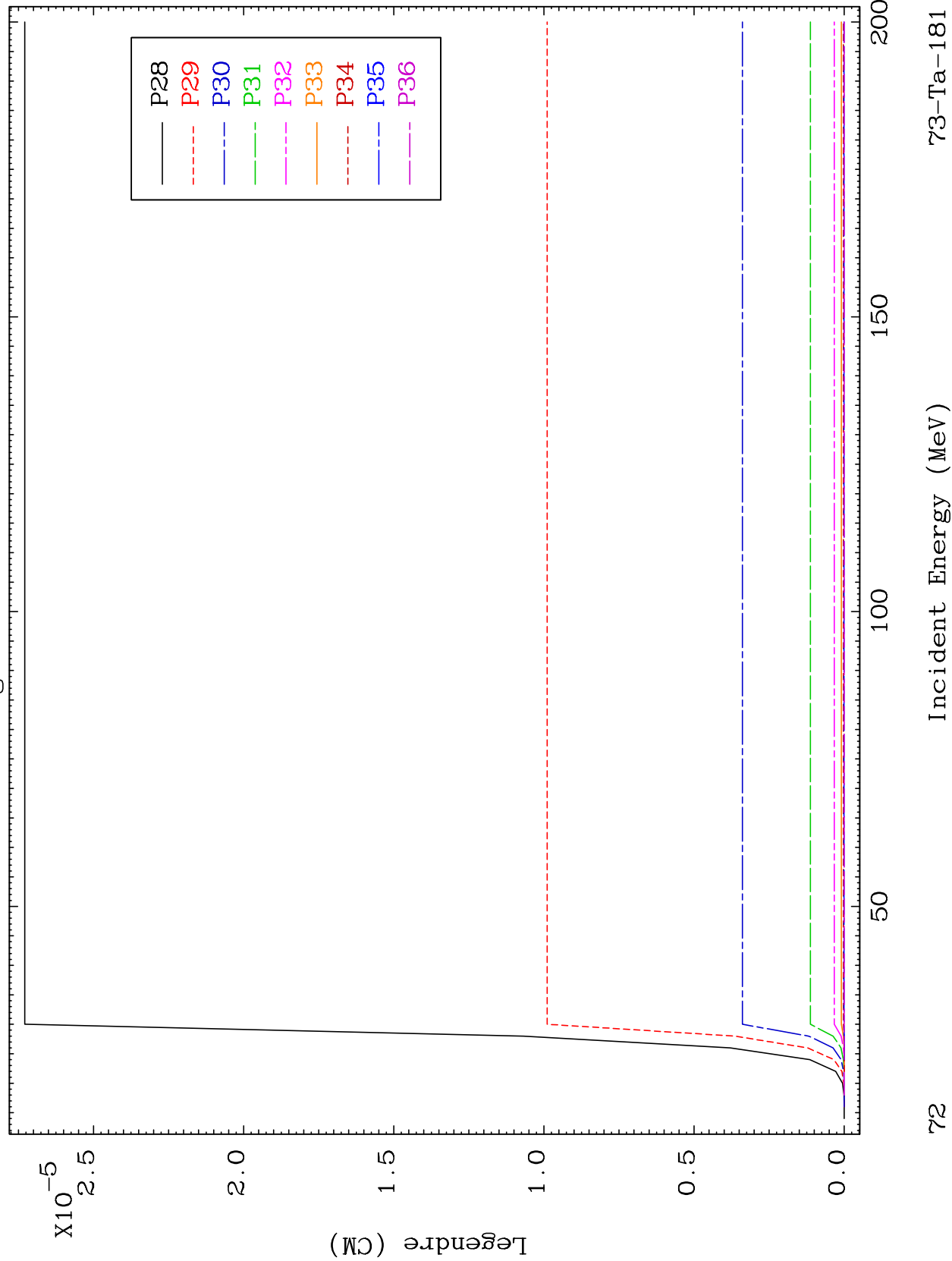
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

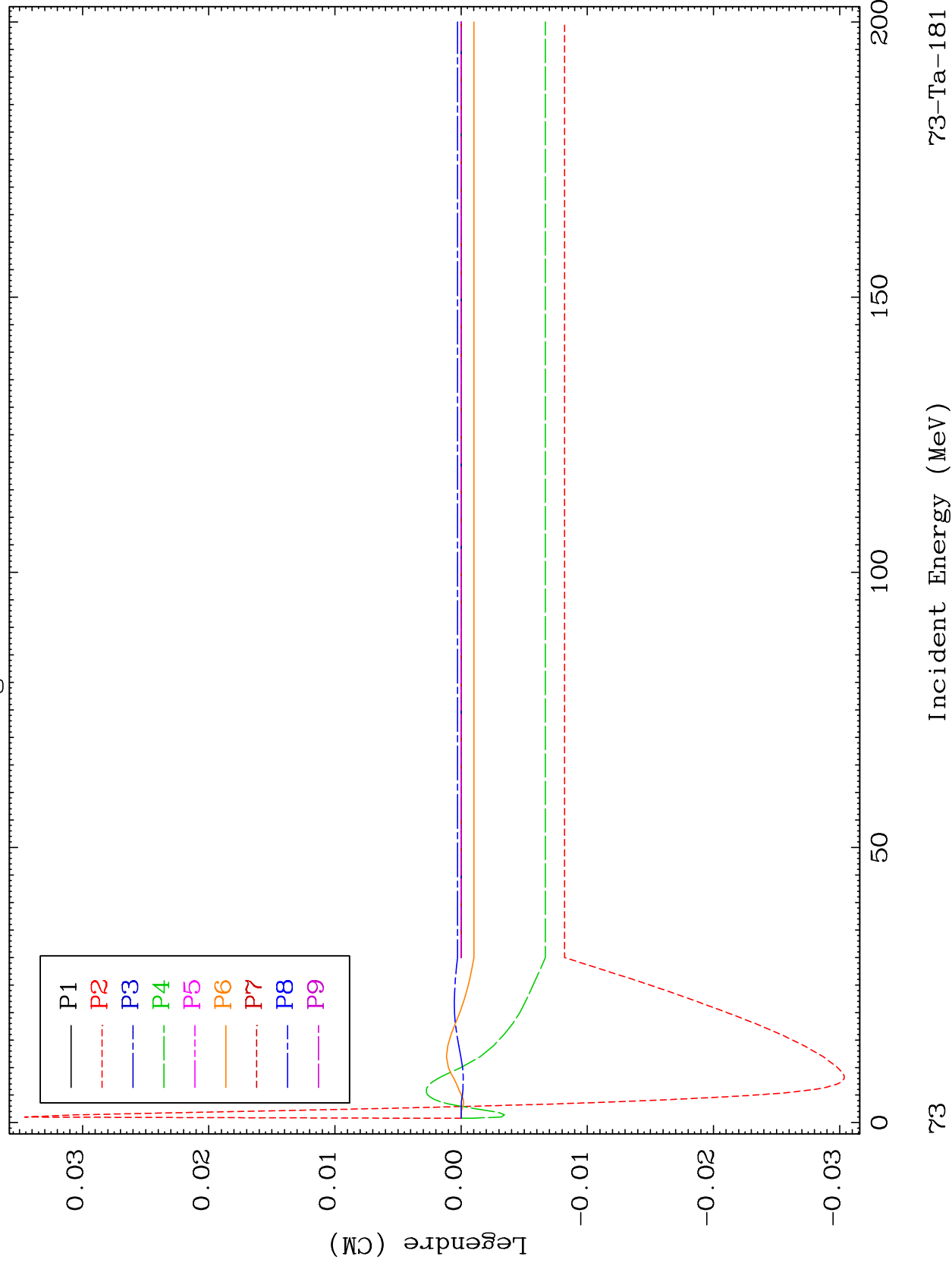
73-Ta-181



MAT 7328

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

73-Ta-181



73

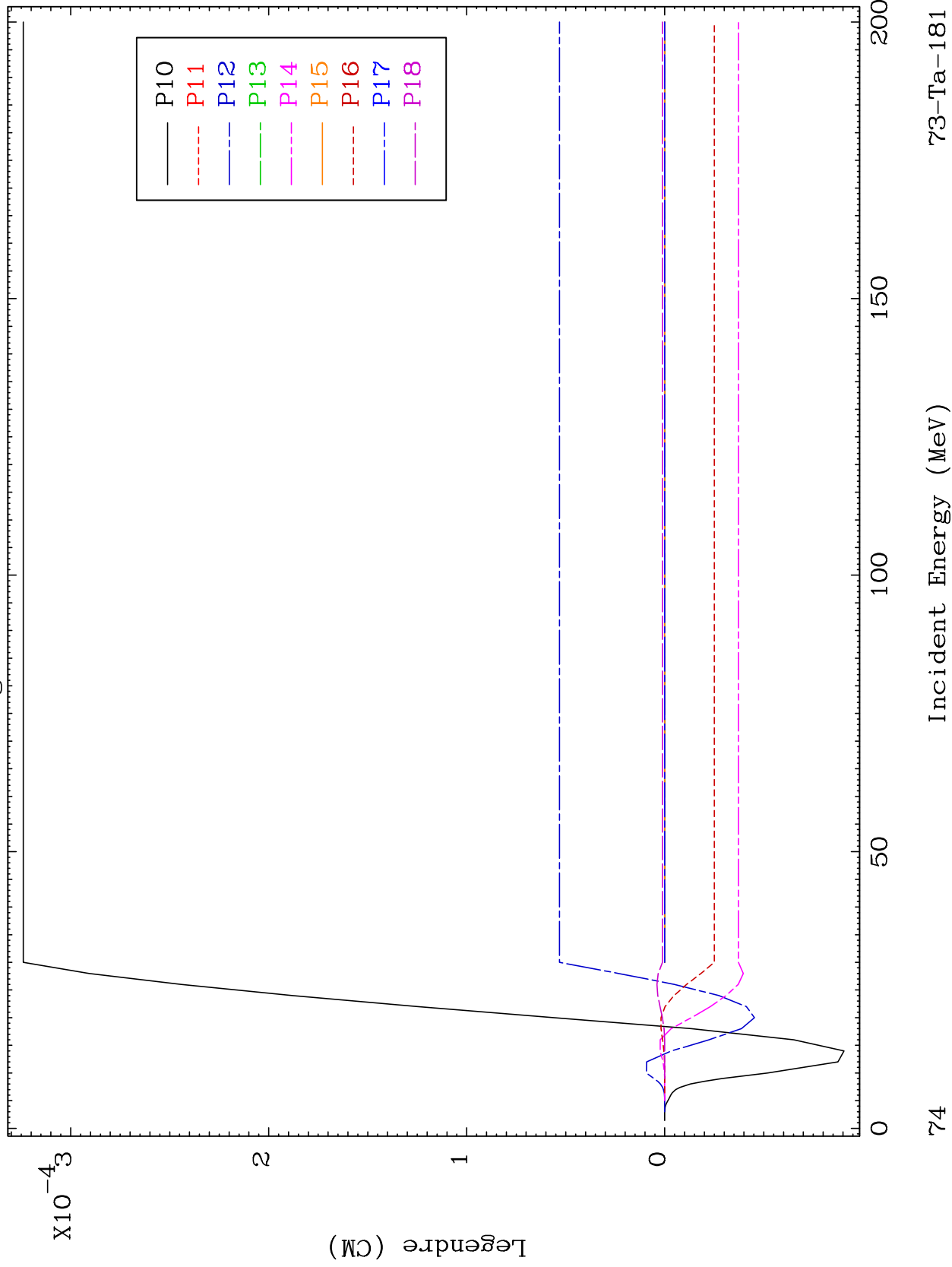
Incident Energy (MeV)

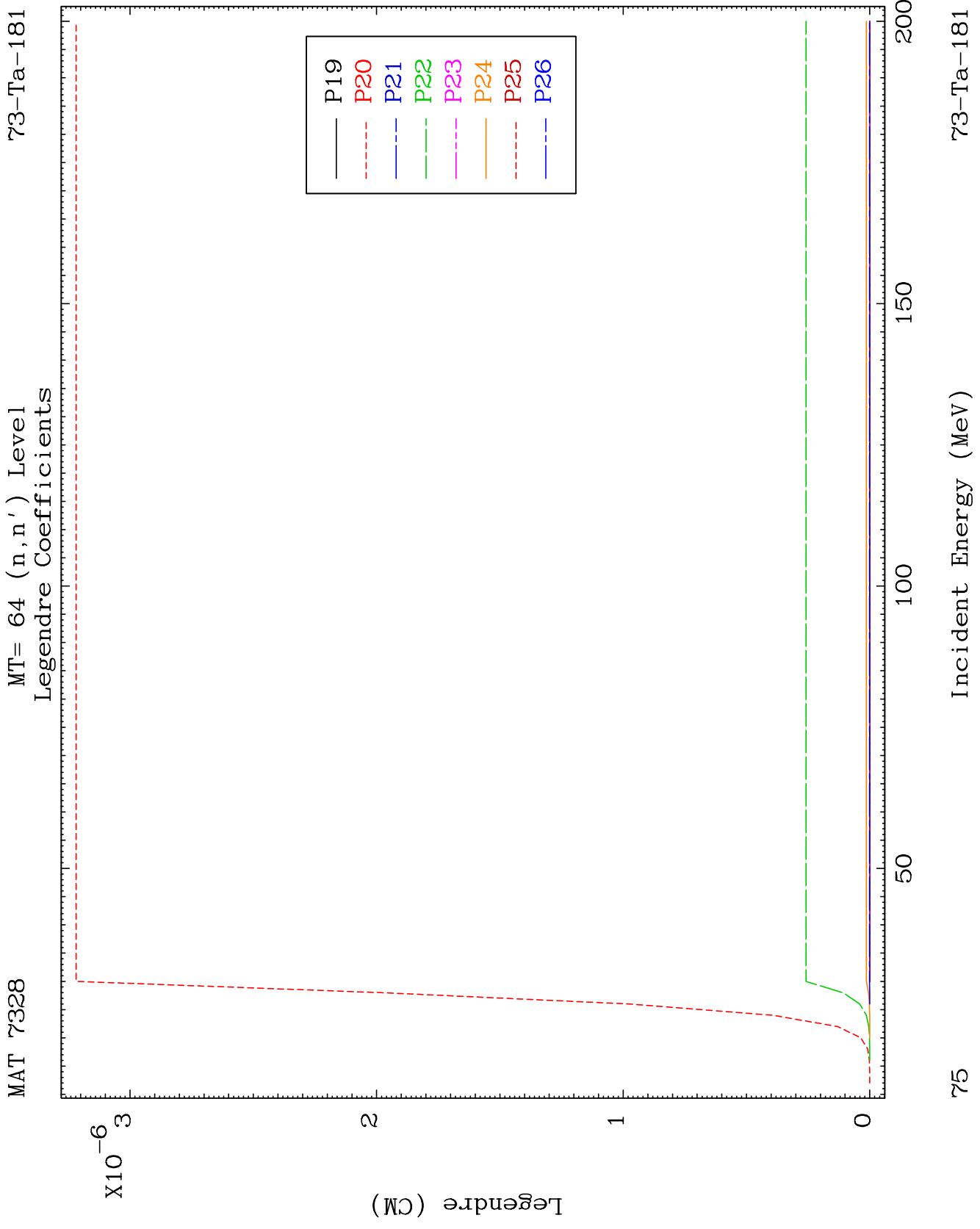
73-Ta-181

MAT 7328

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

73-Ta-181

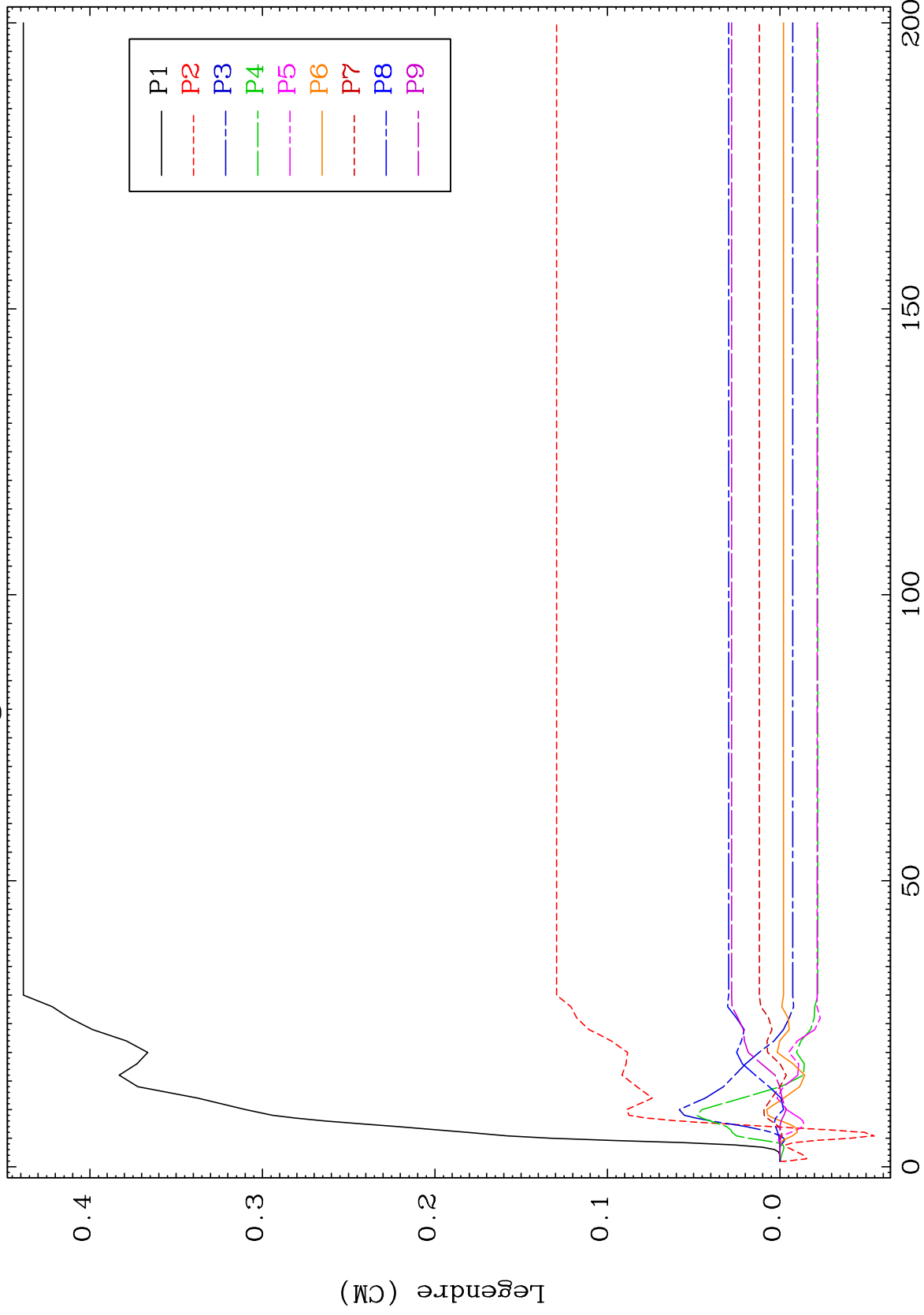




MAT 7328

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

73-Ta-181



76

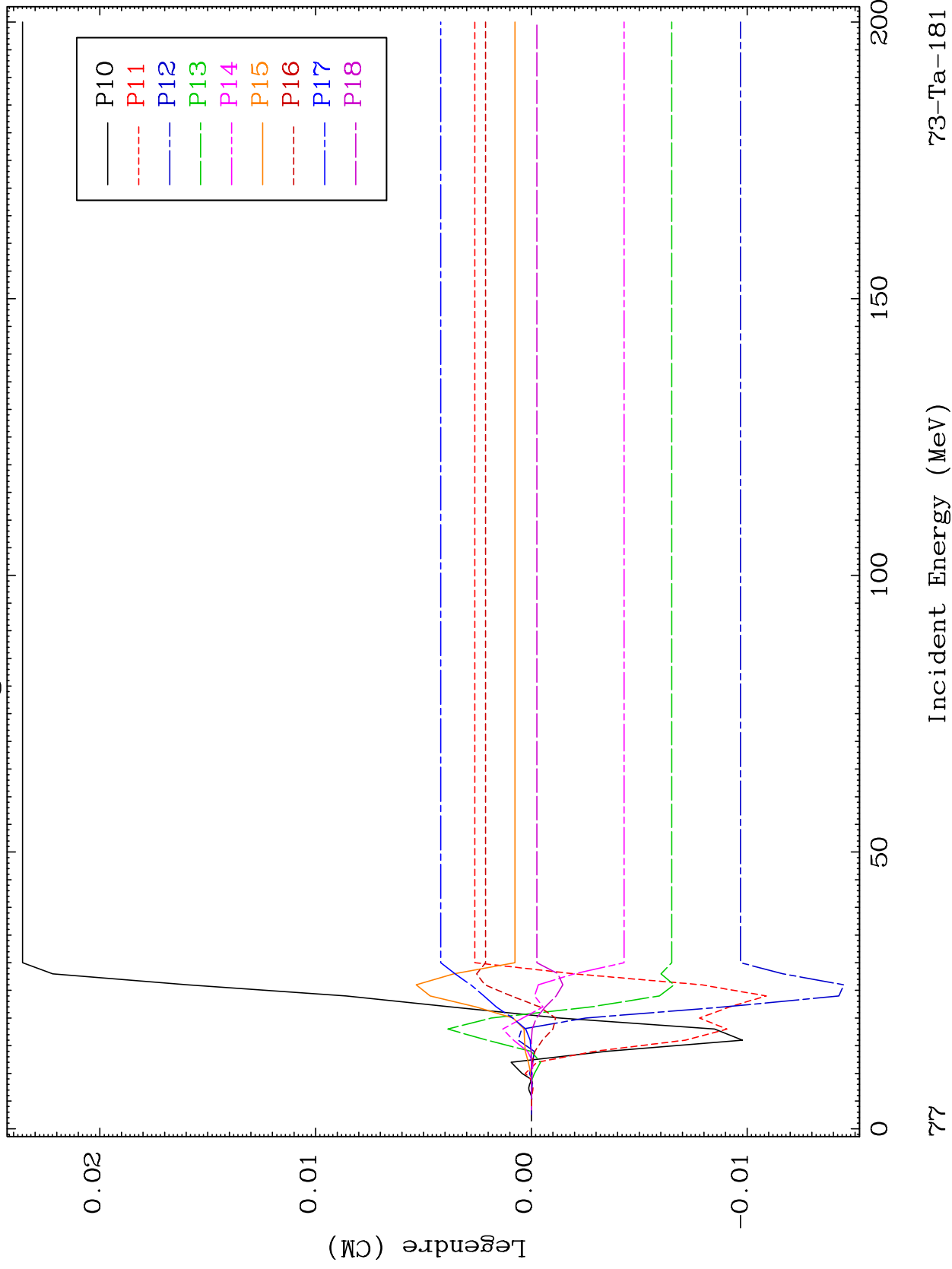
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

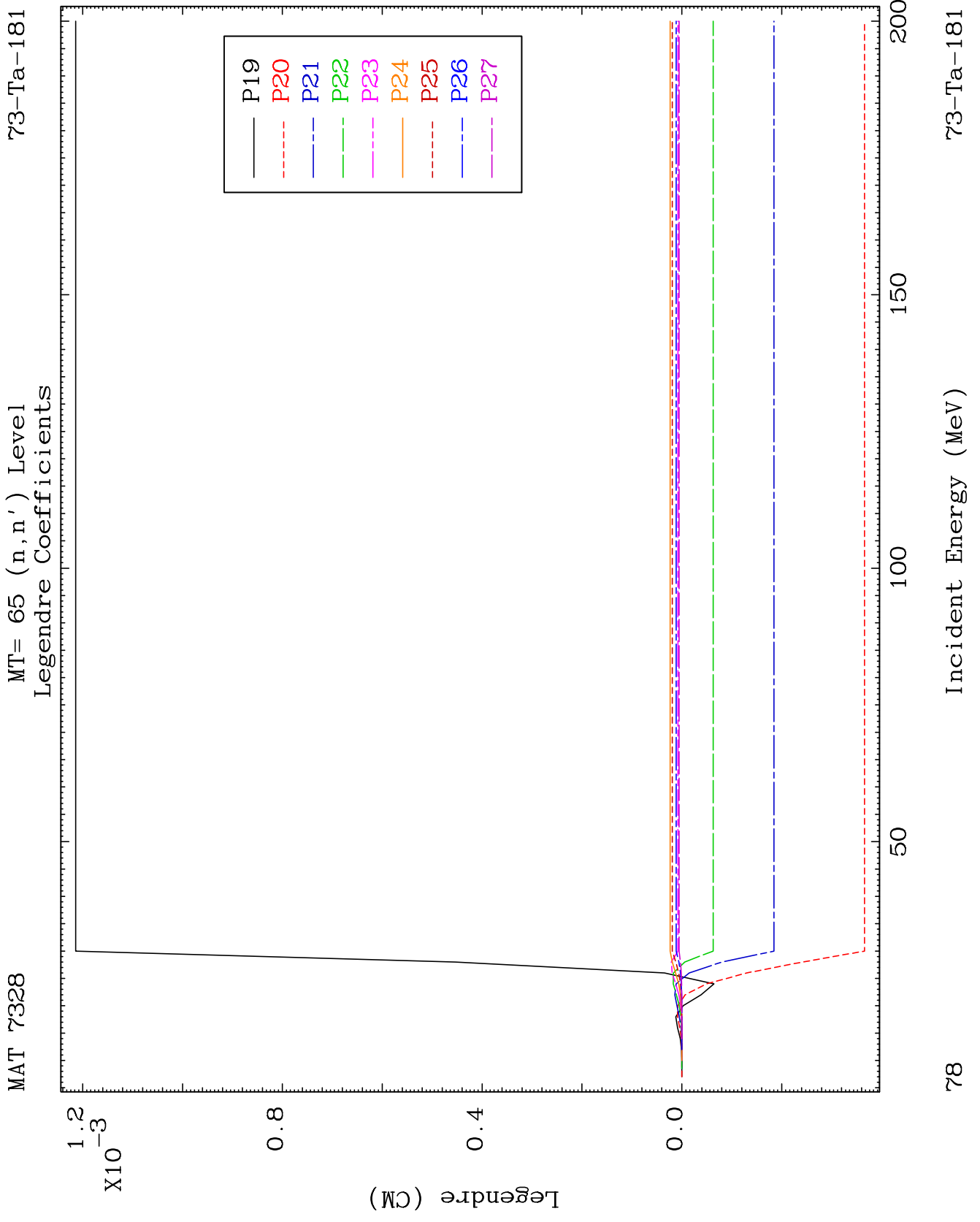
73-Ta-181

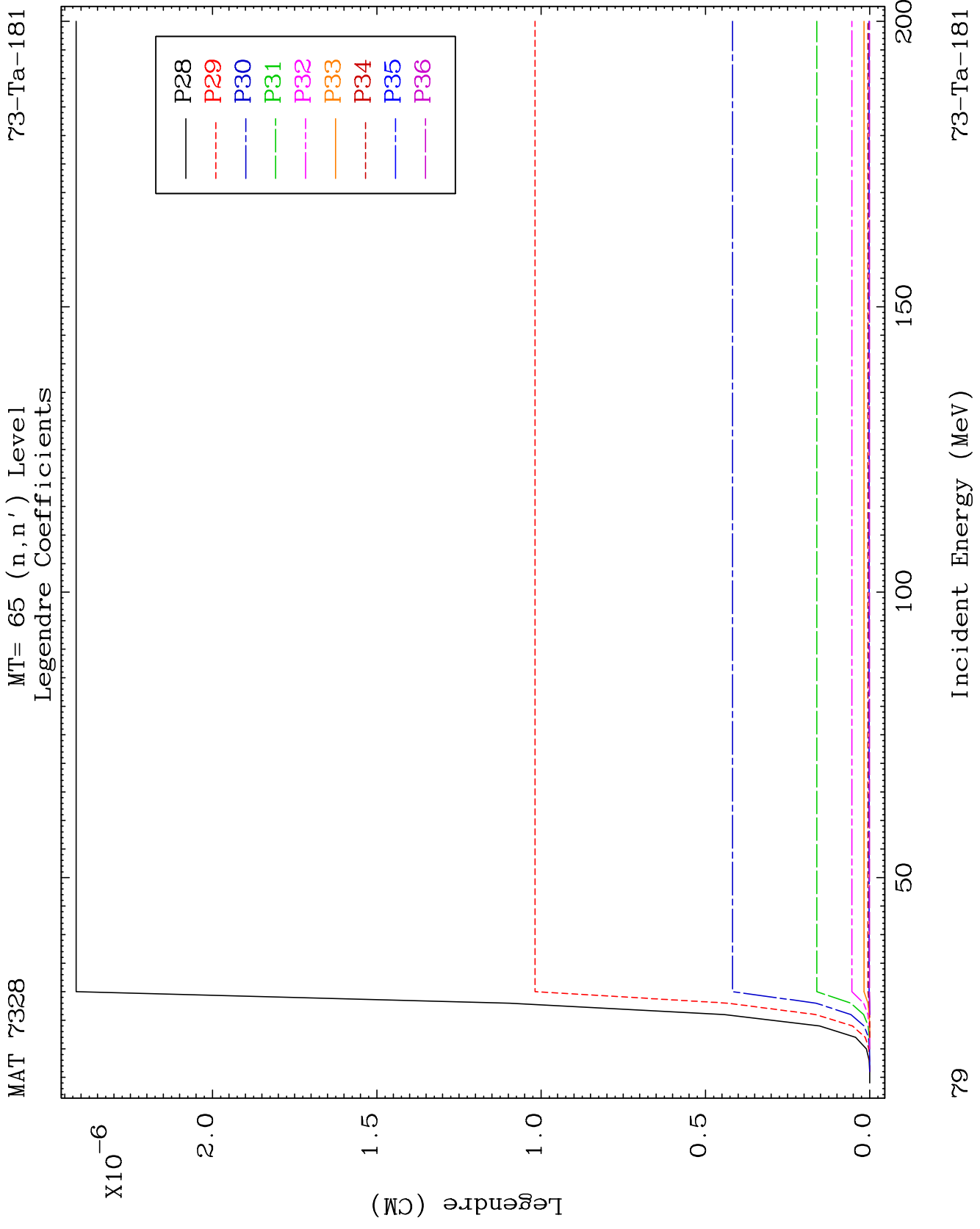


73-Ta-181

Incident Energy (MeV)

77

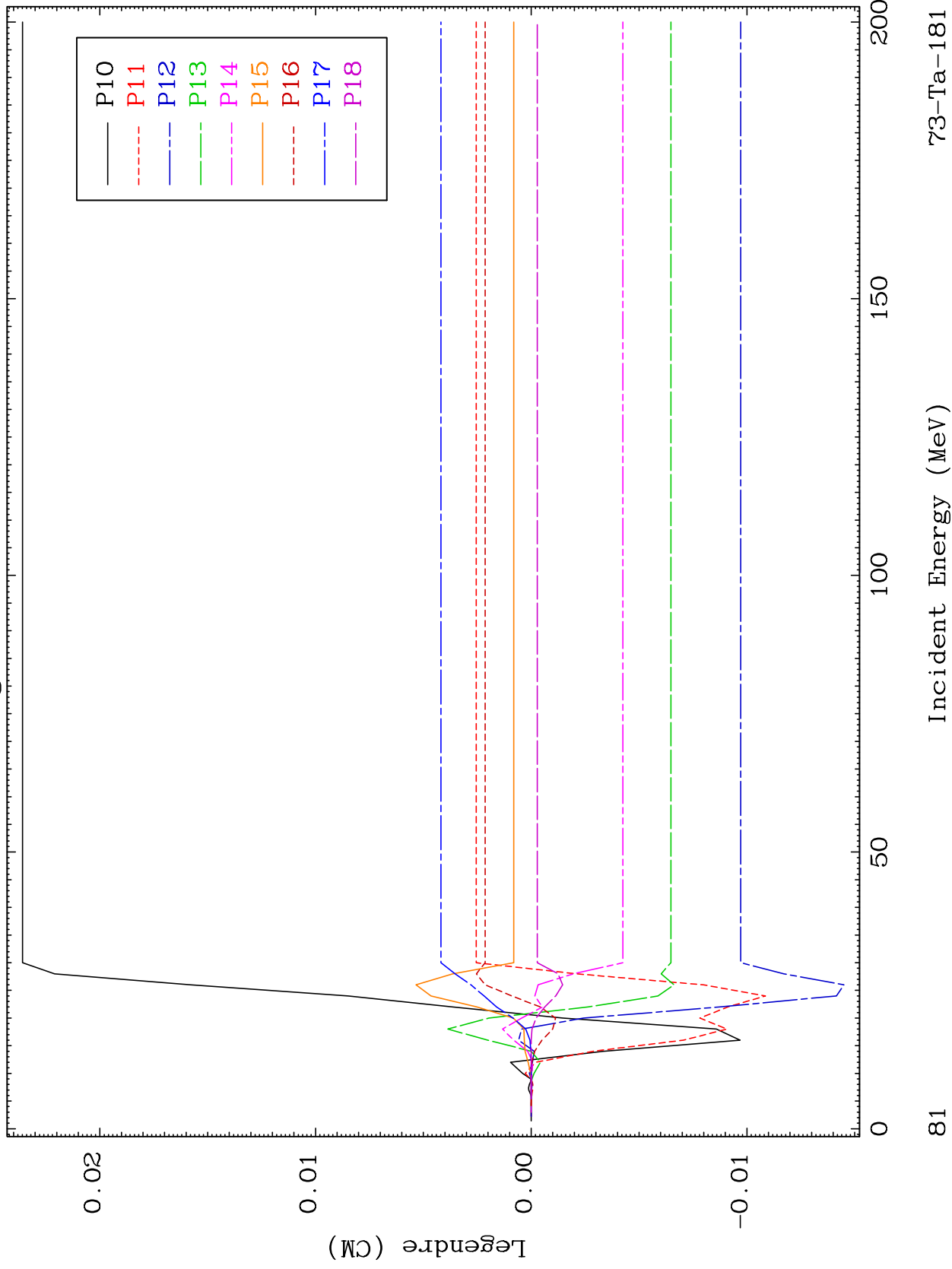




MAT 7328

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

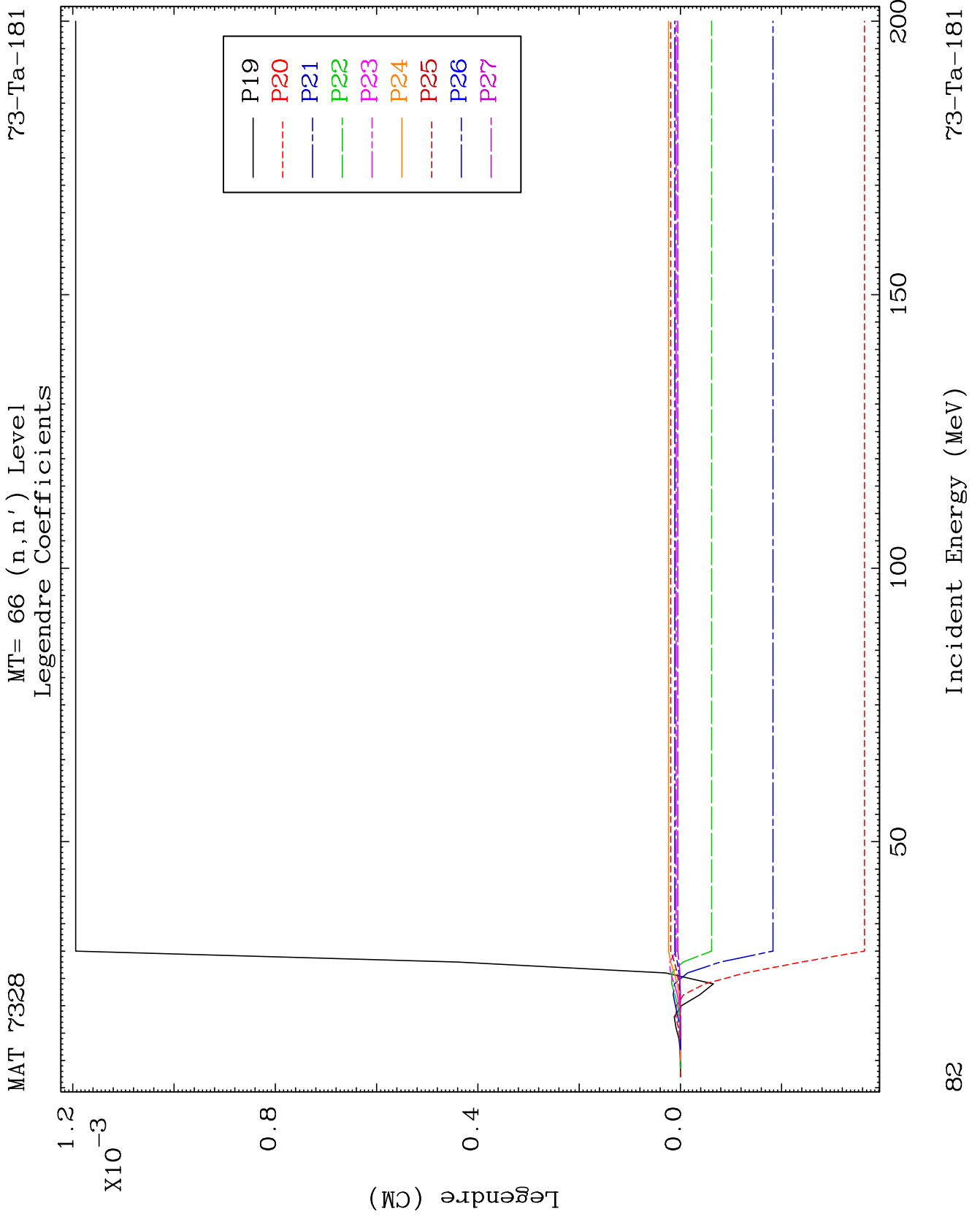
73-Ta-181

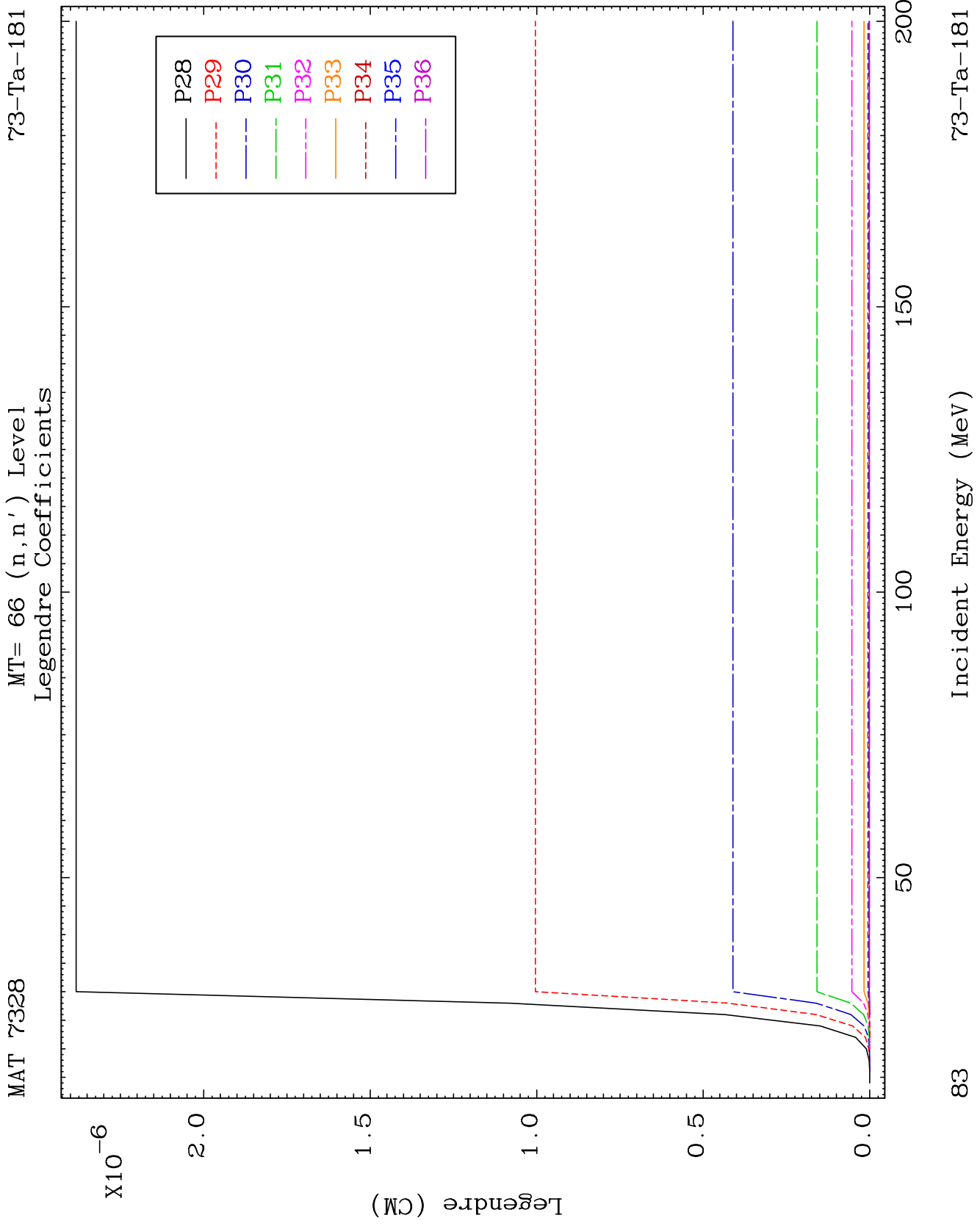


81

Incident Energy (MeV)

73-Ta-181

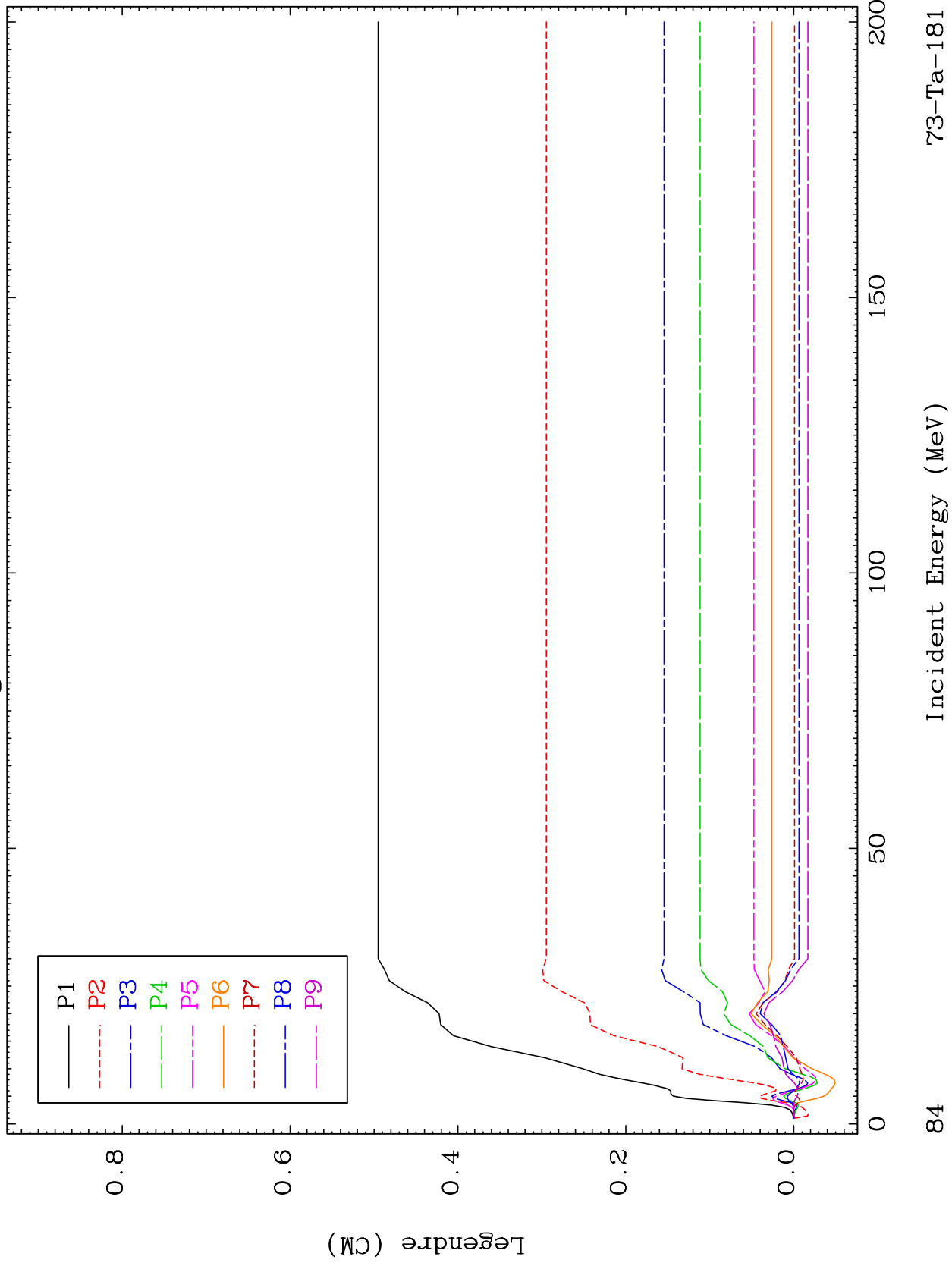




MAT 7328

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

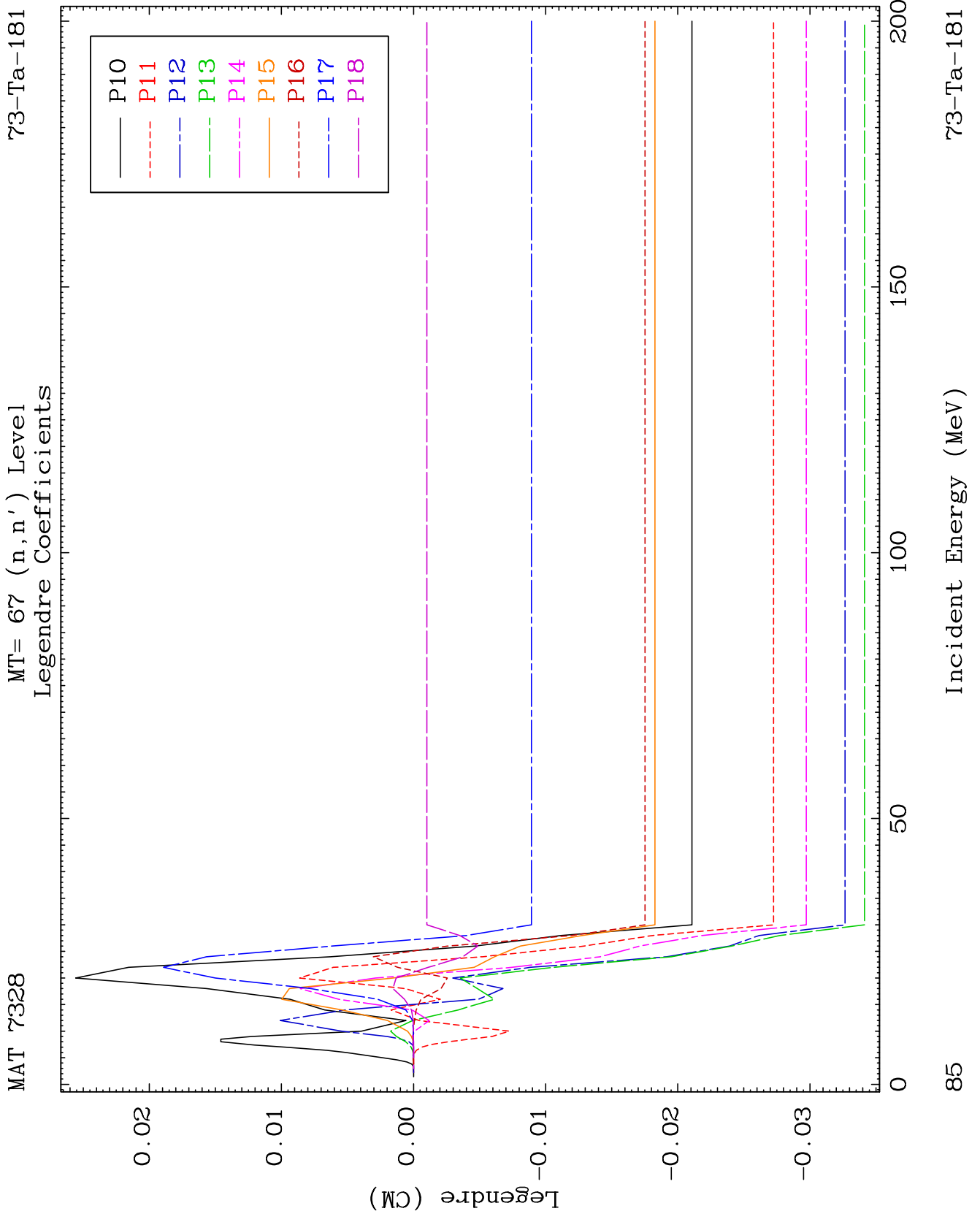
⁷³Ta-181



84

Incident Energy (MeV)

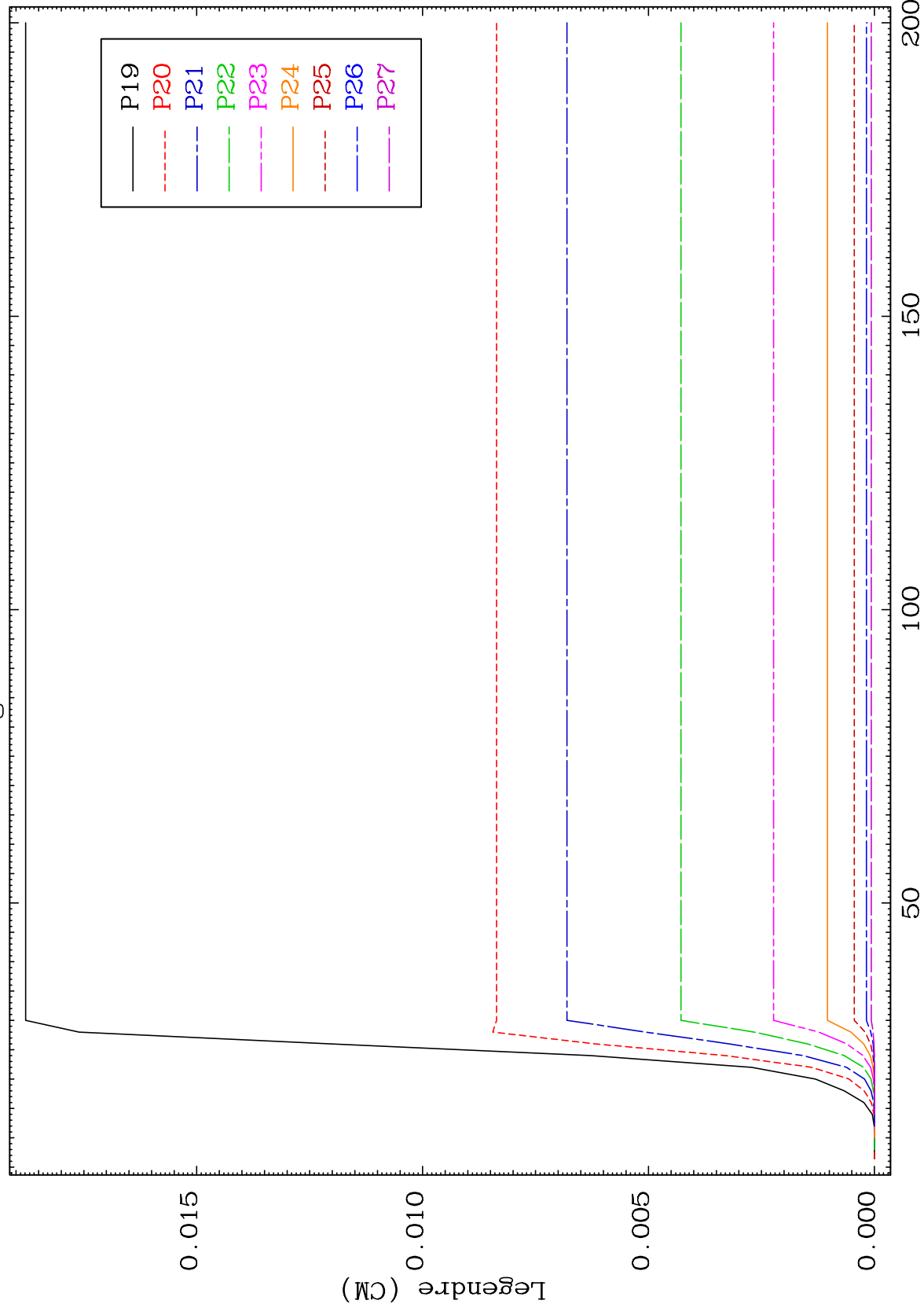
⁷³Ta-181



MAT 7328

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

73-Ta-181



86

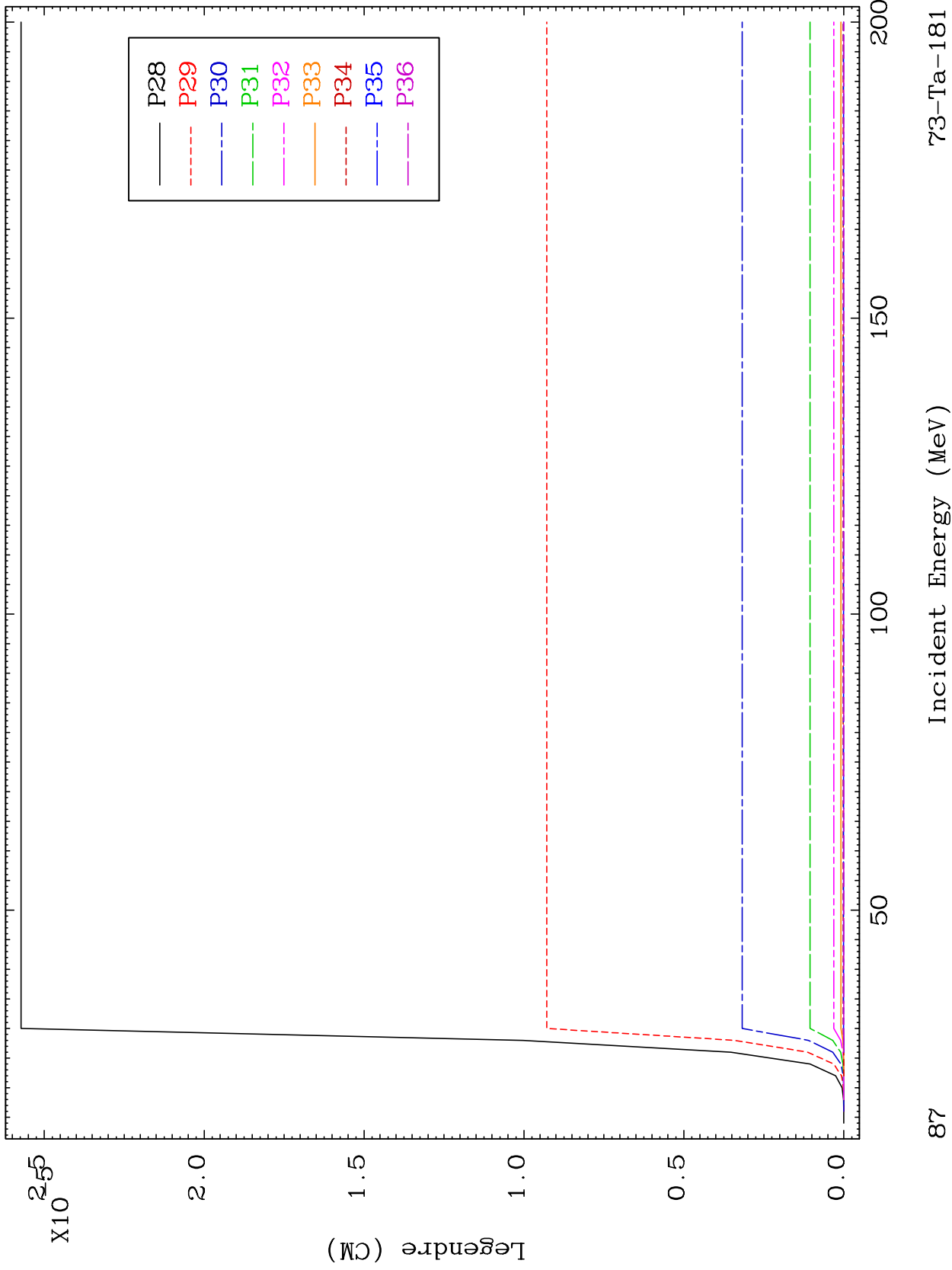
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

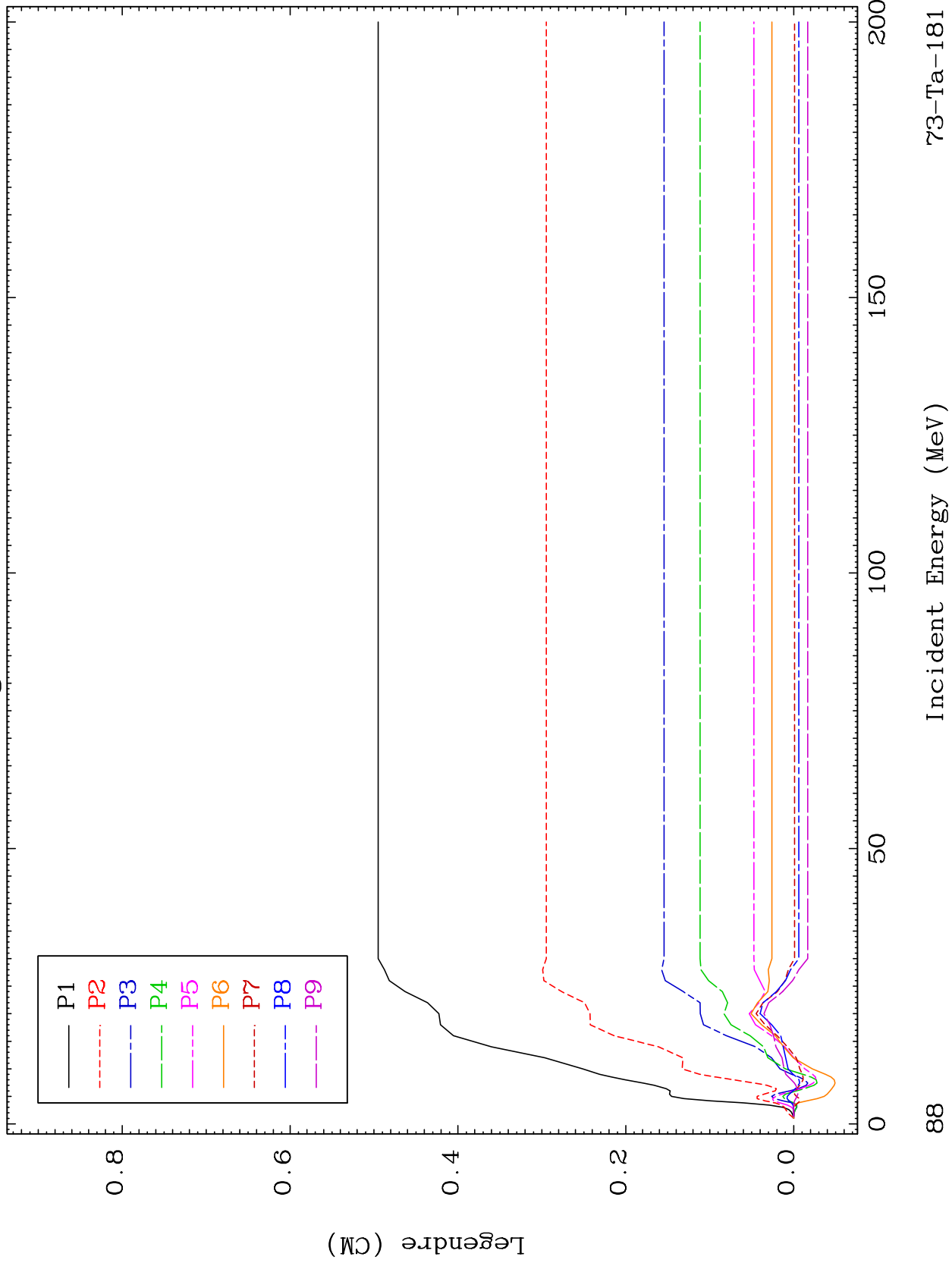
73-Ta-181



MAT 7328

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

73-Ta-181



73-Ta-181

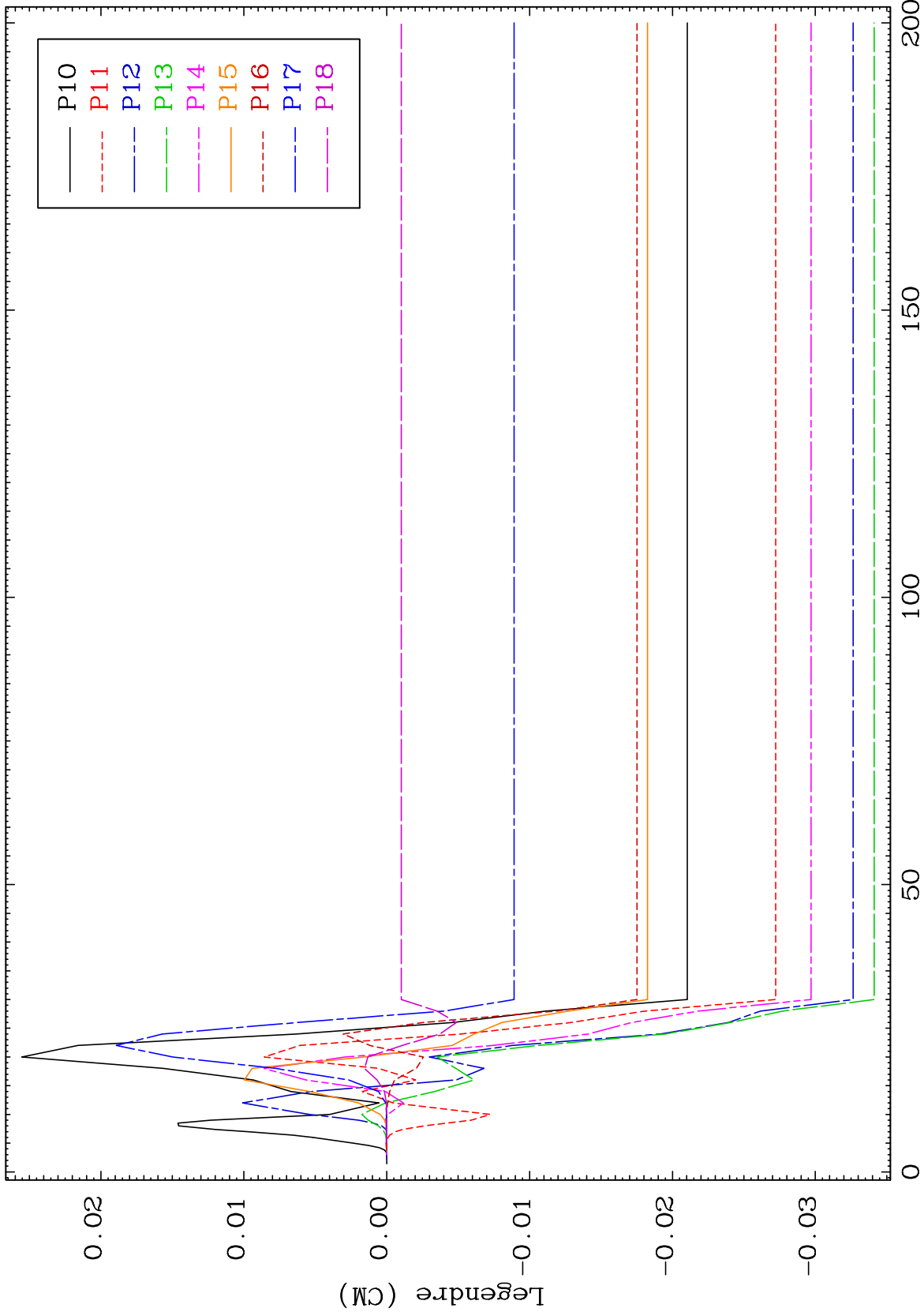
Incident Energy (MeV)

88

MAT 7328

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

73-Ta-181



89

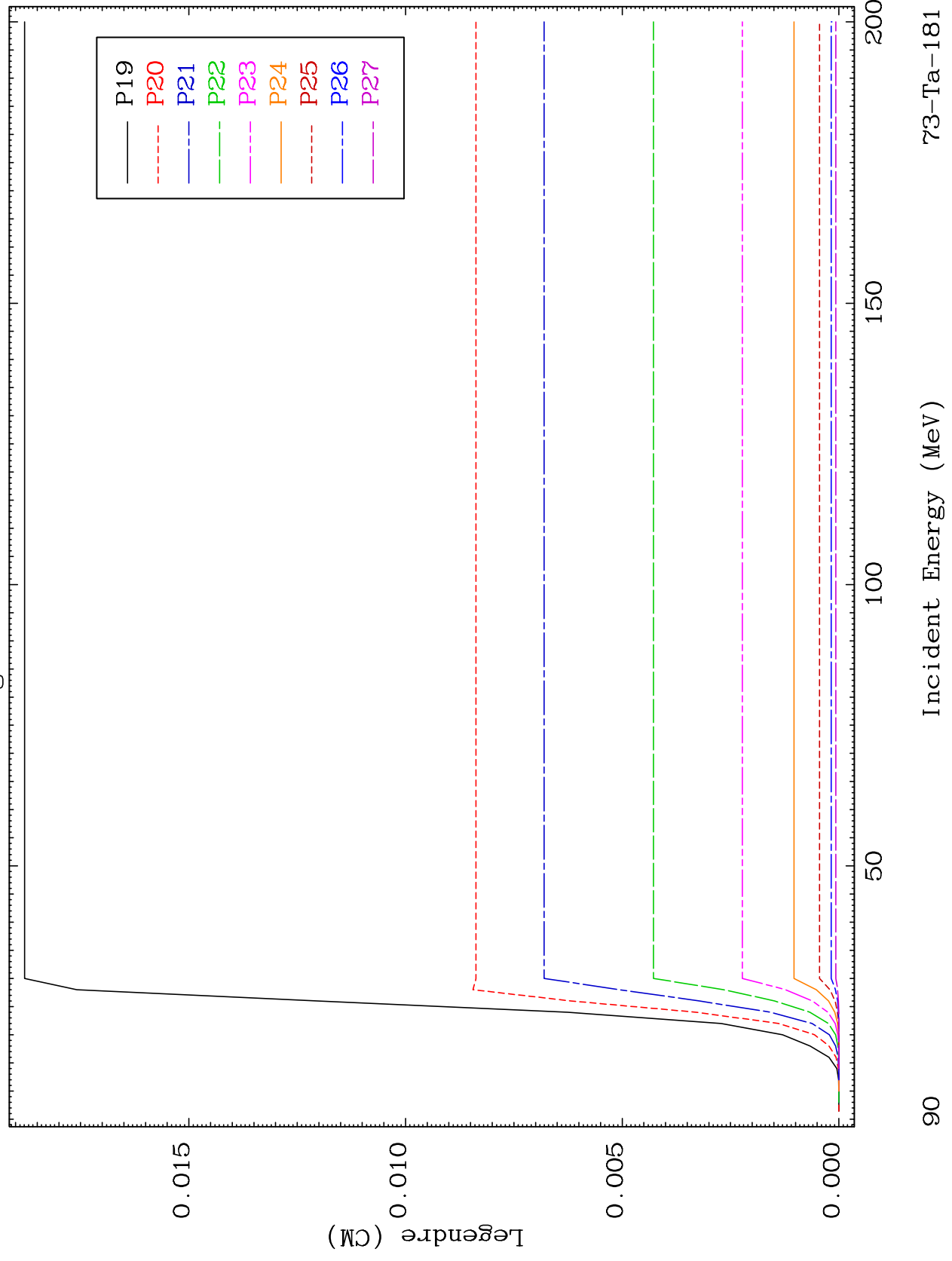
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

73-Ta-181



90

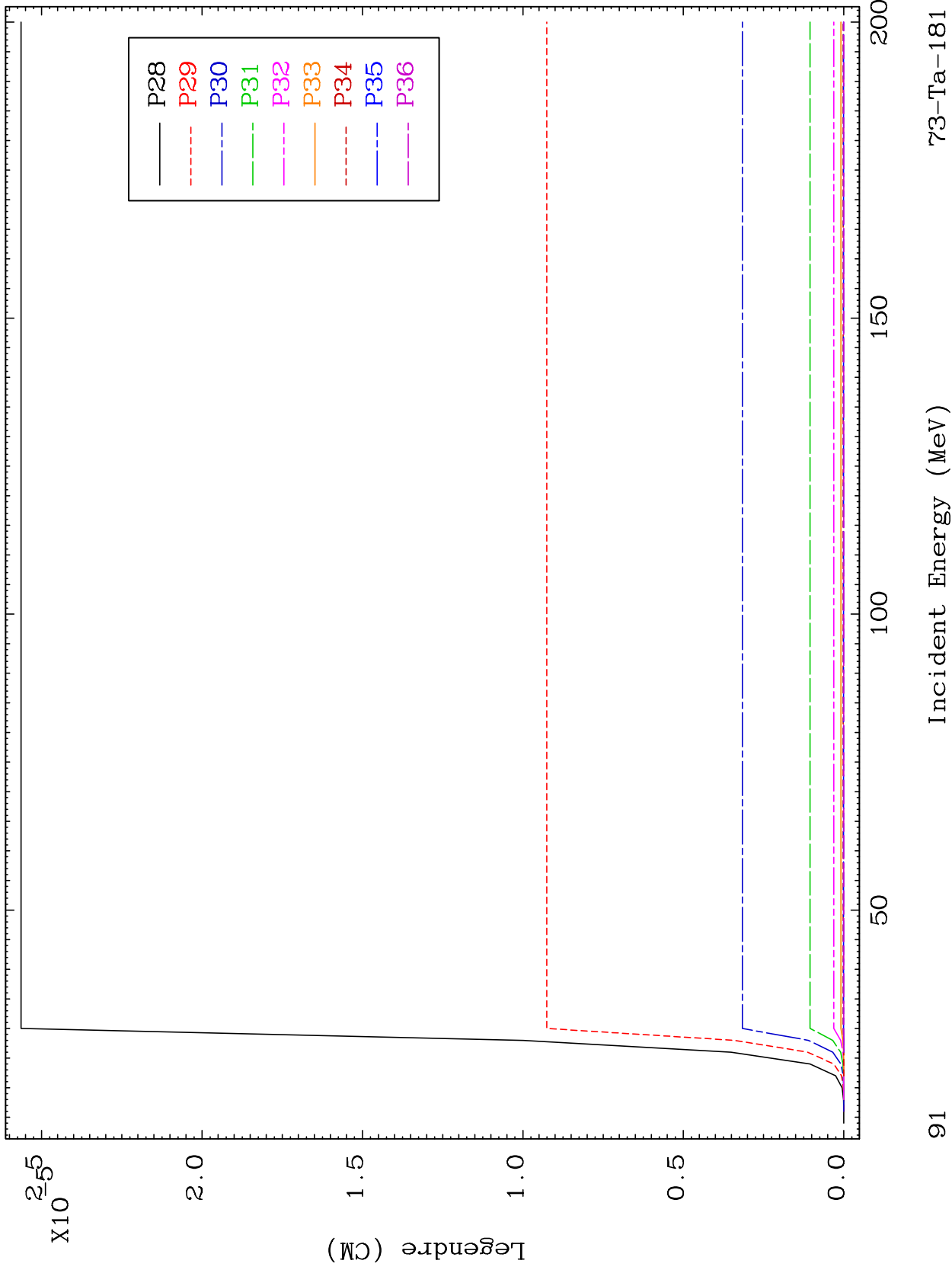
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

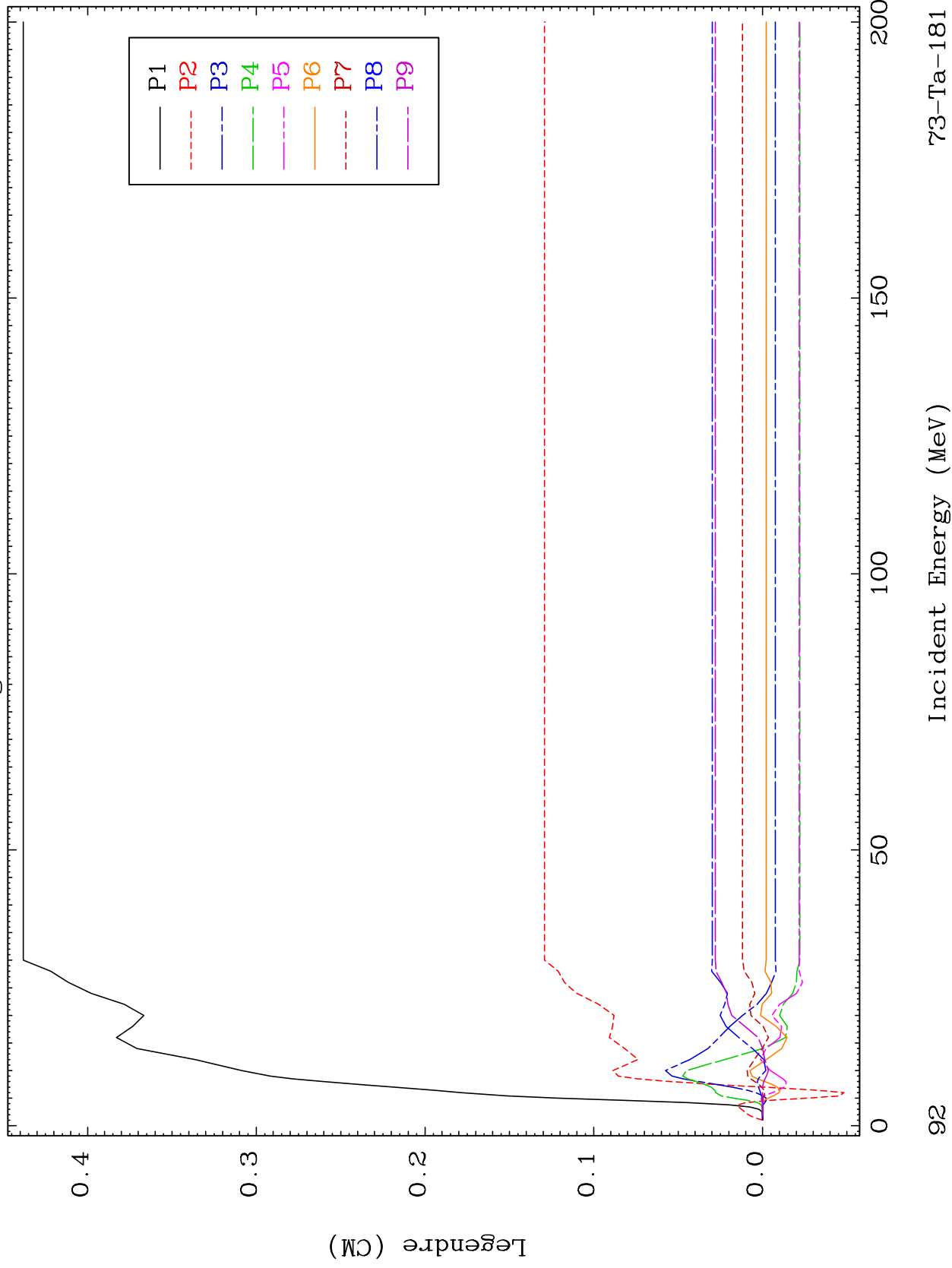
73-Ta-181



MAT 7328

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

73-Ta-181



92

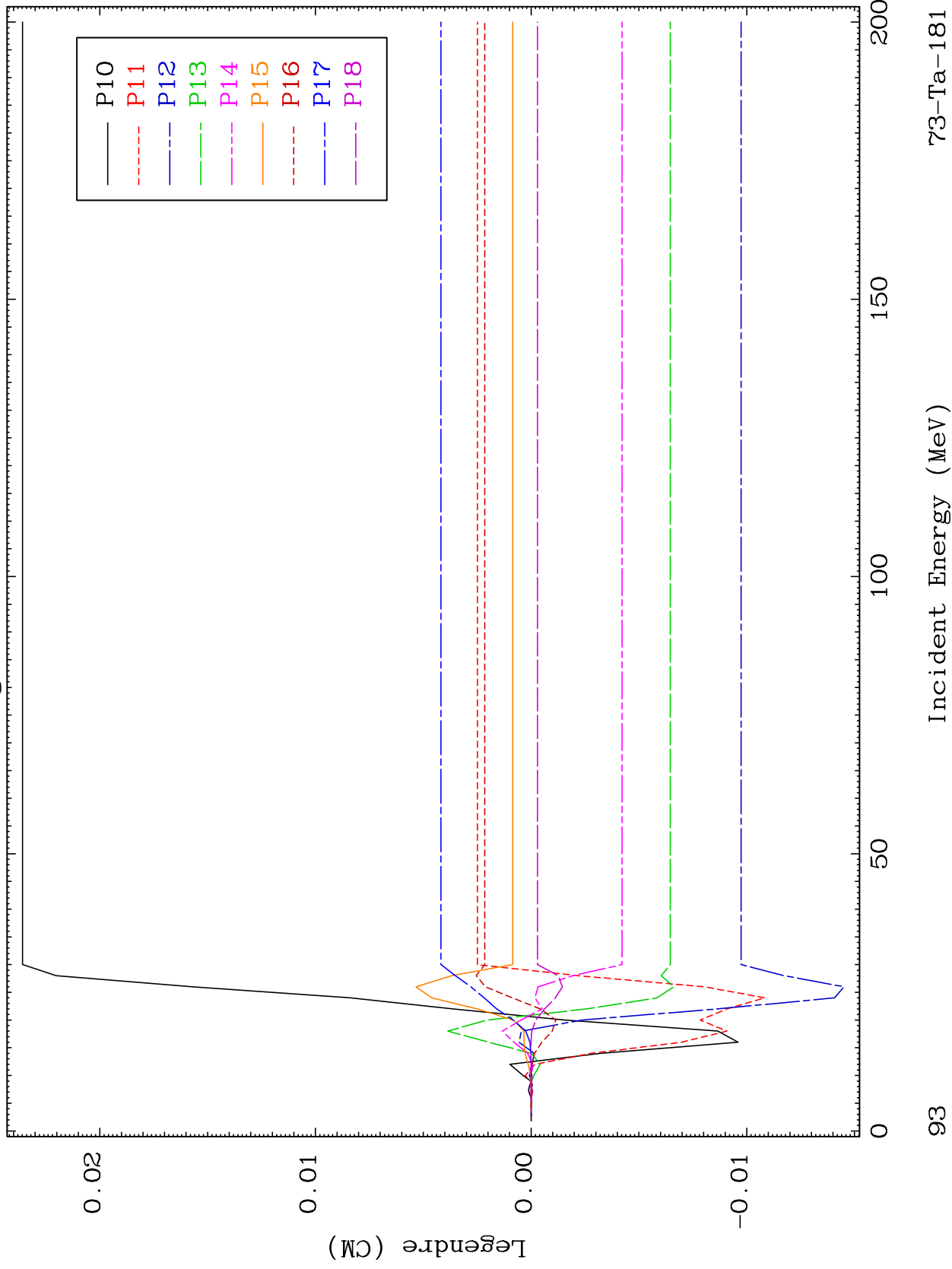
Incident Energy (MeV)

73-Ta-181

MAT 7328

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

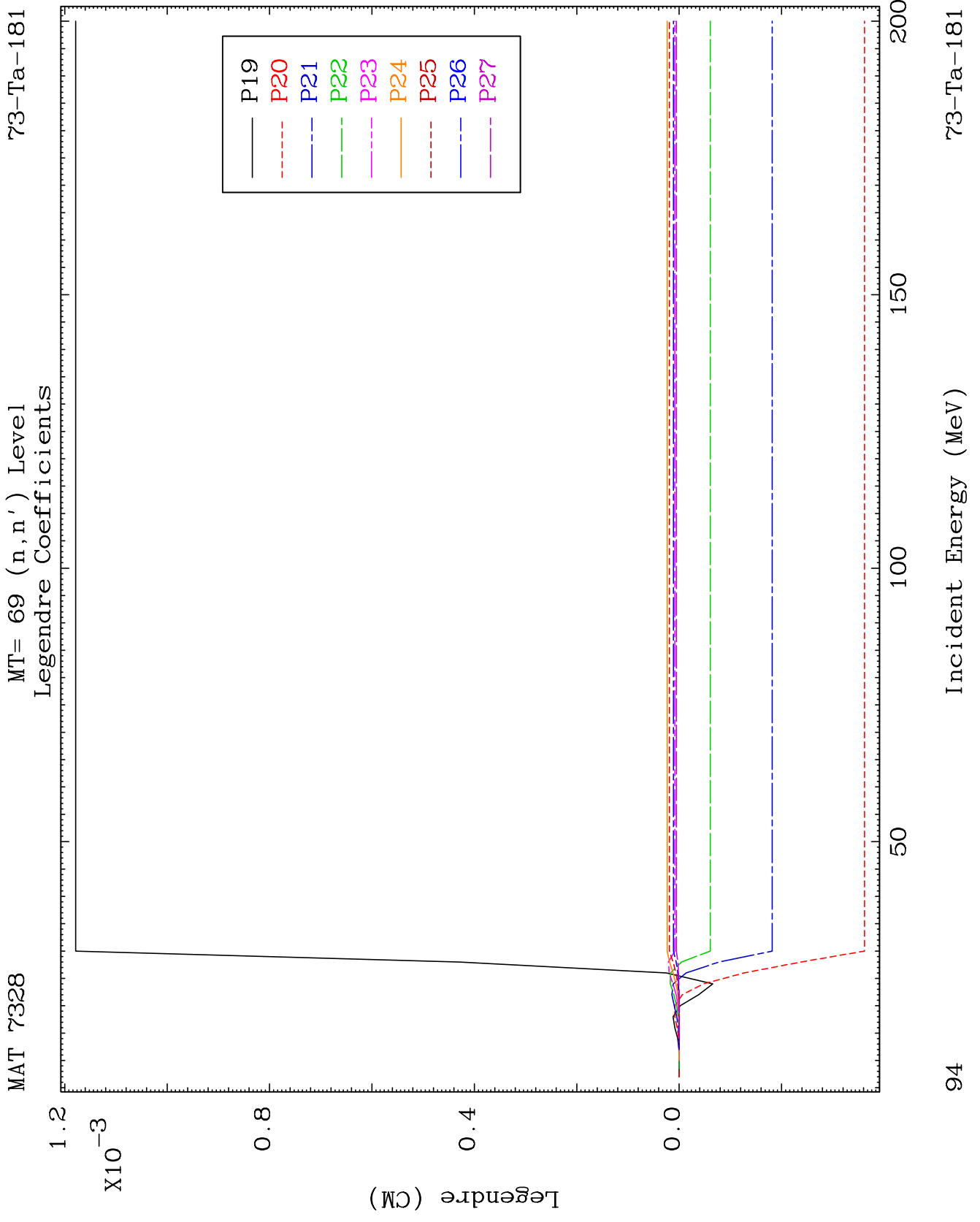
73-Ta-181

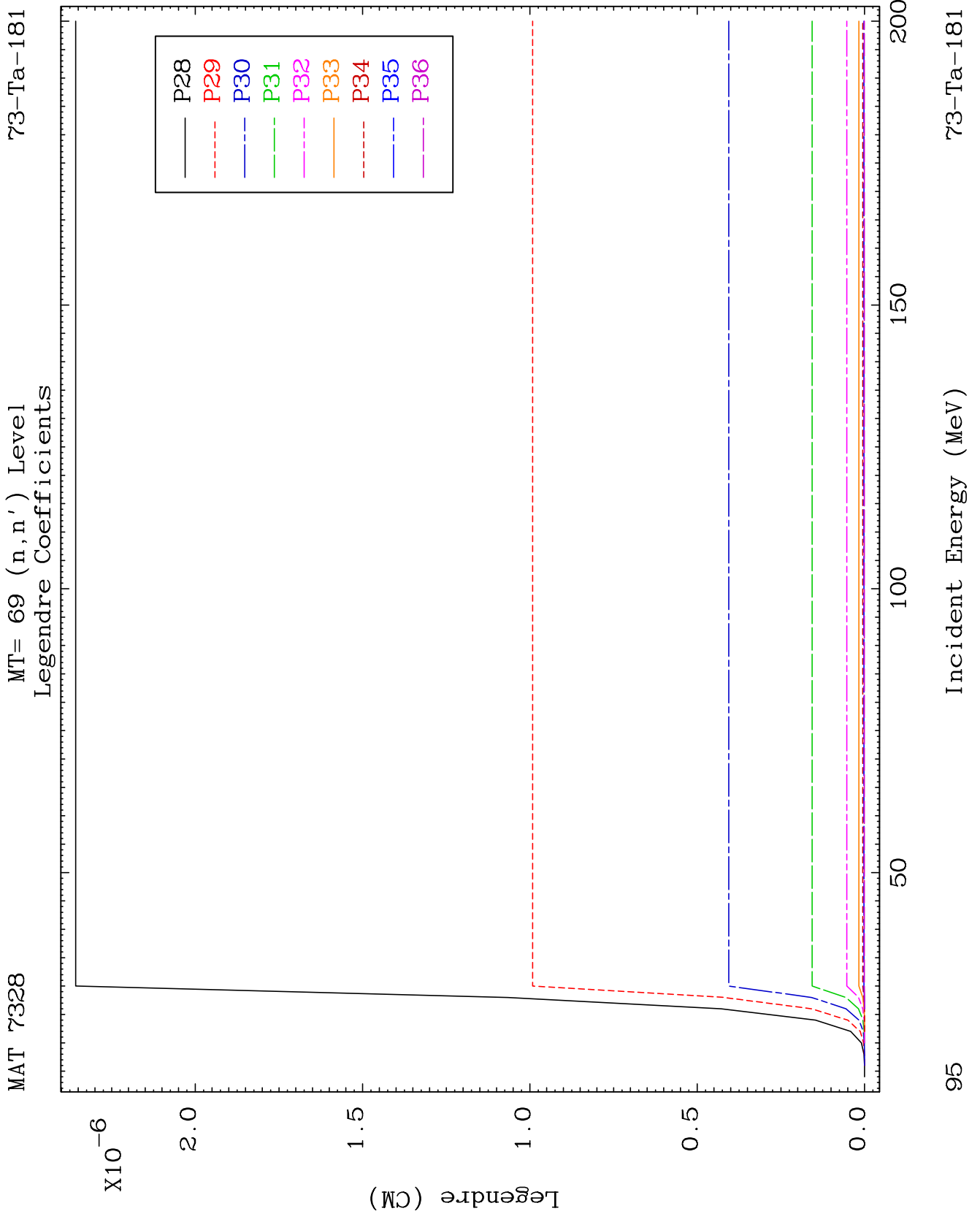


93

Incident Energy (MeV)

73-Ta-181

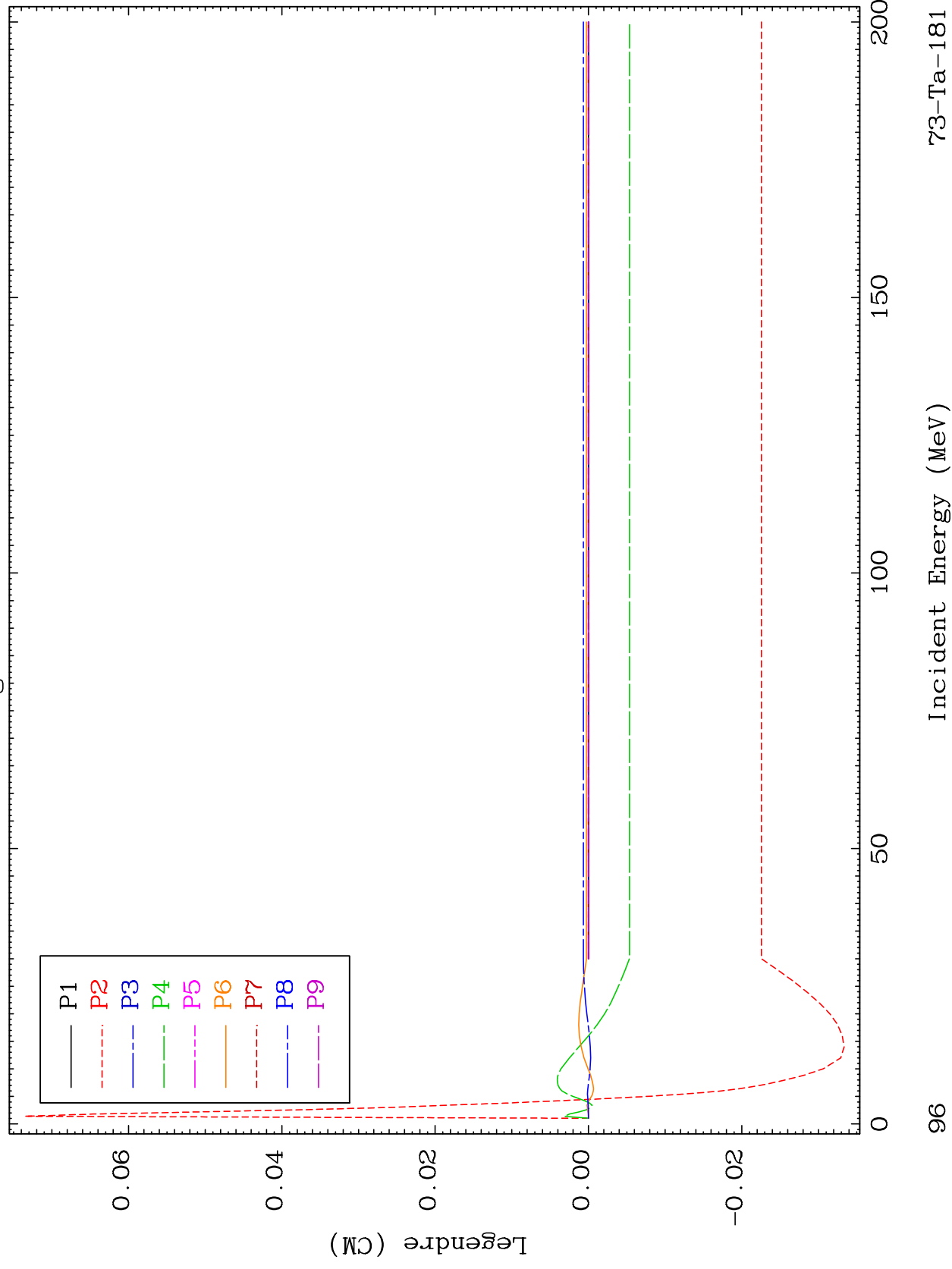




MAT 7328

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

⁷³Ta-181



96

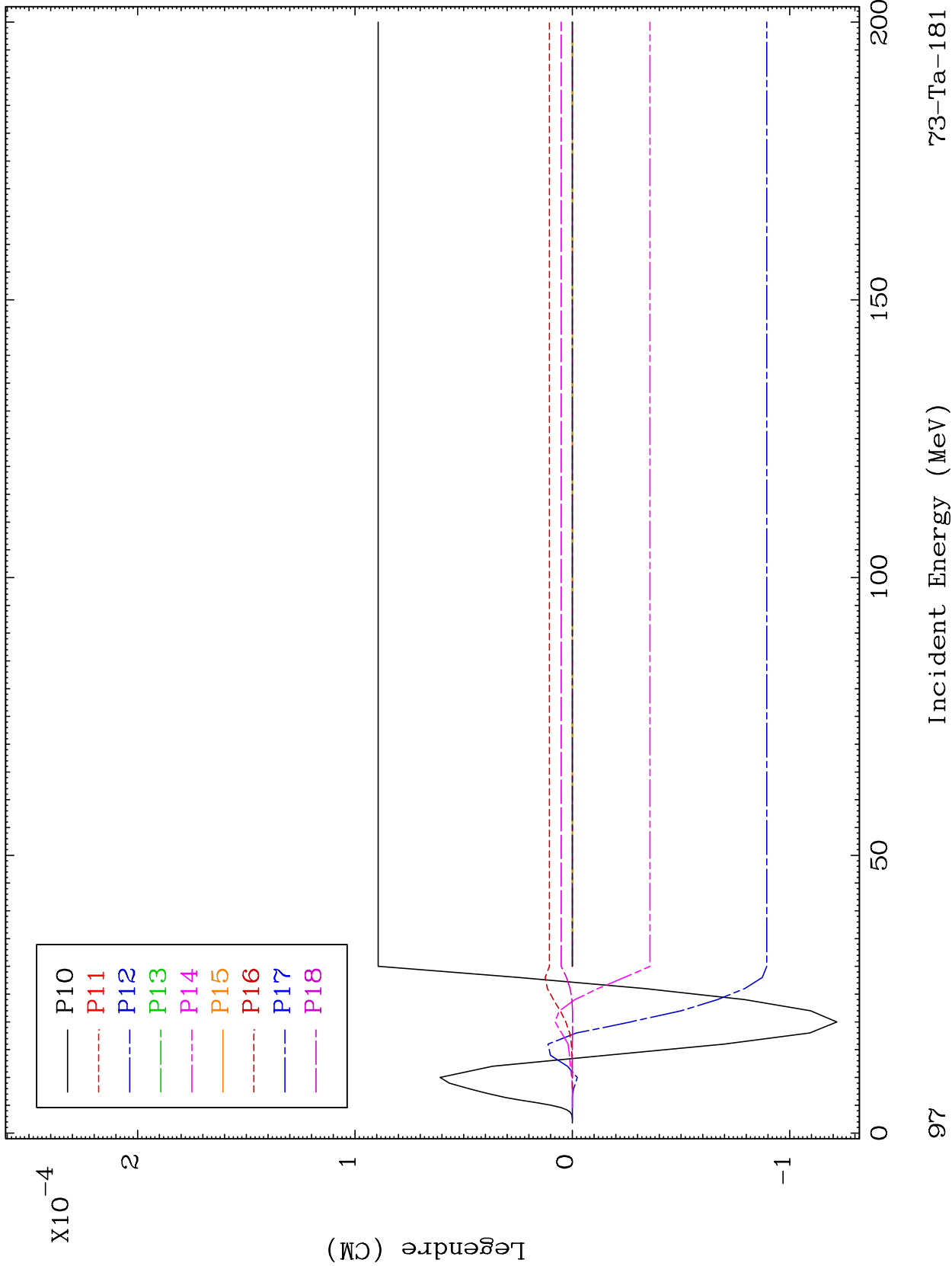
Incident Energy (MeV)

⁷³Ta-181

MAT 7328

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

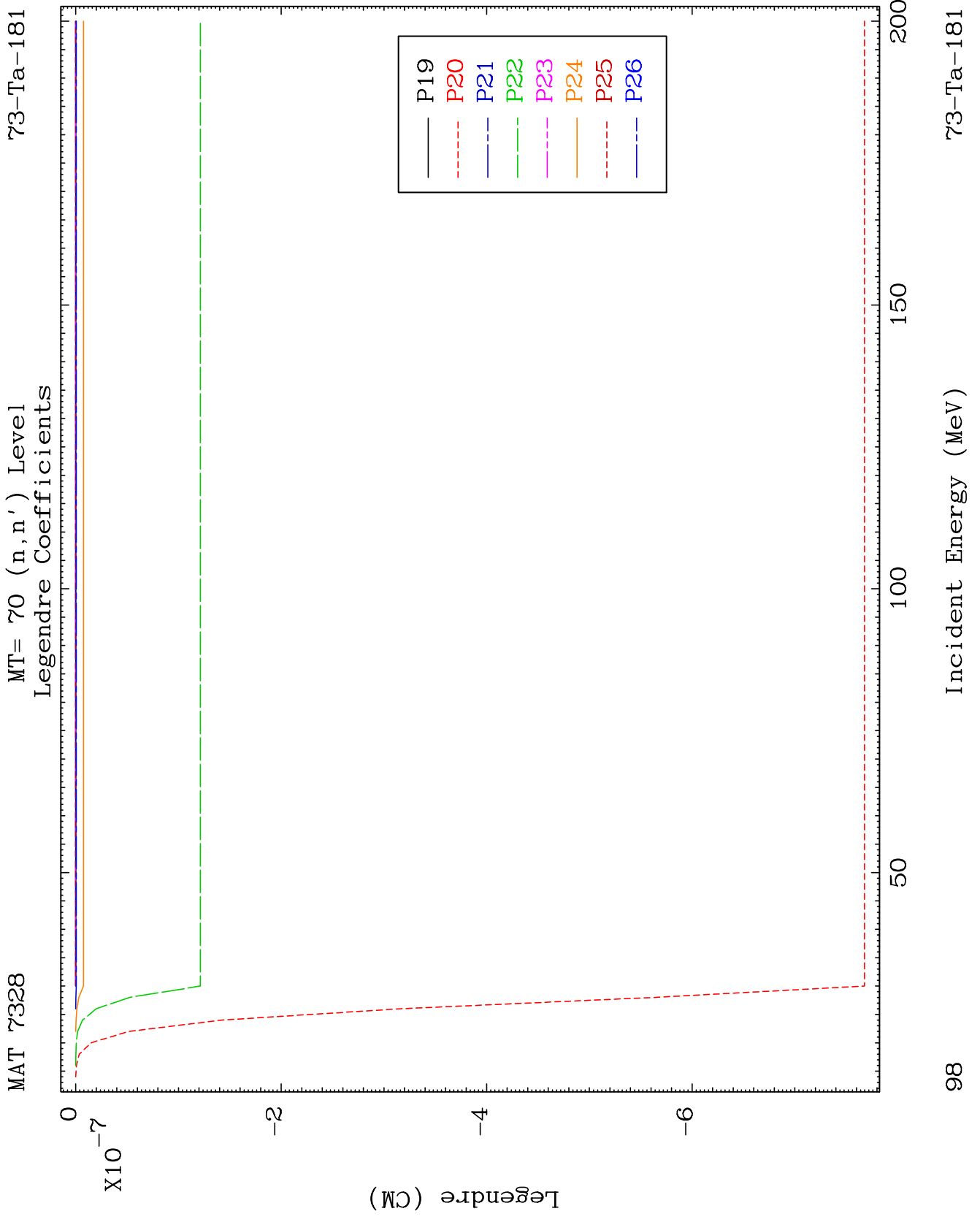
73-Ta-181

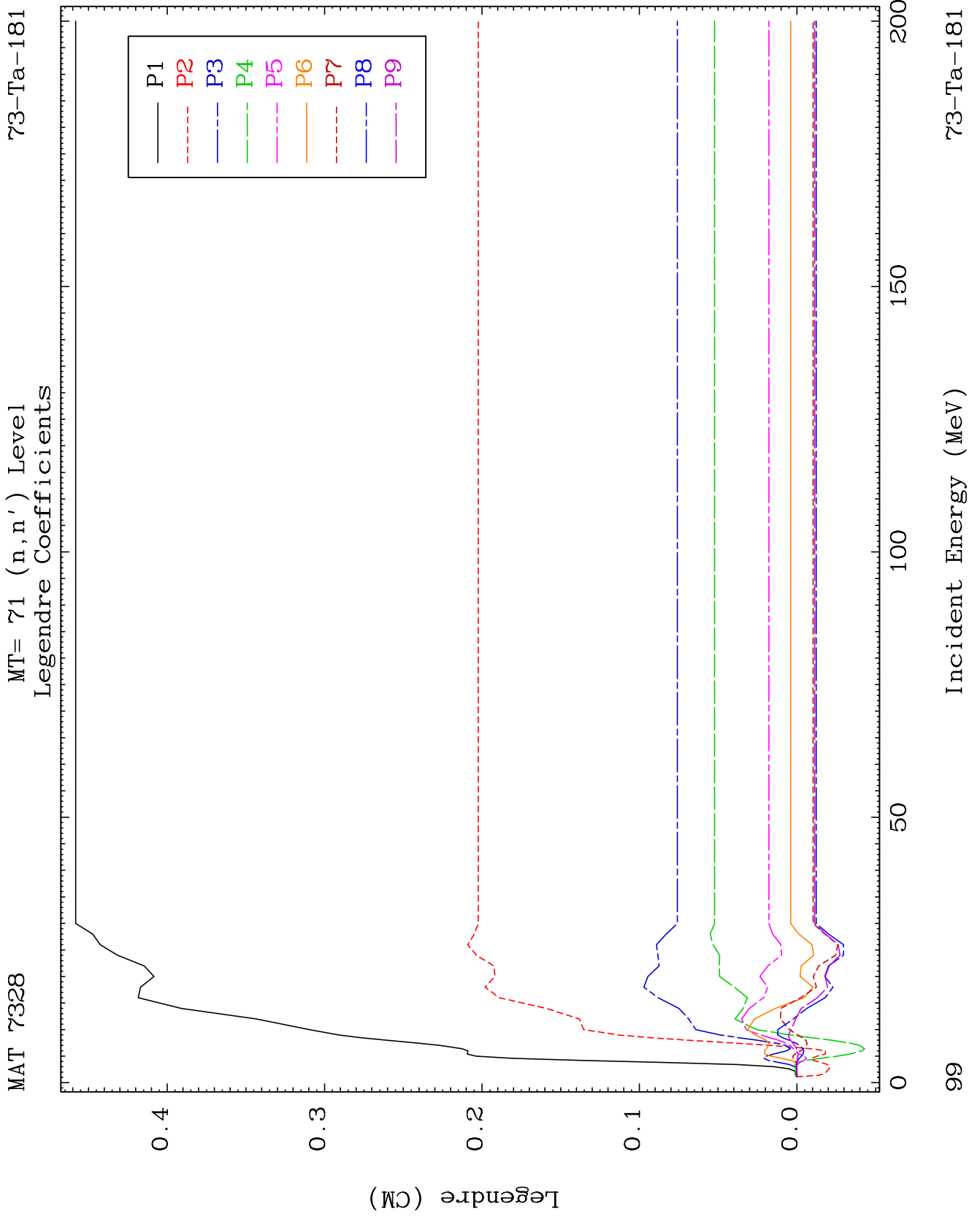


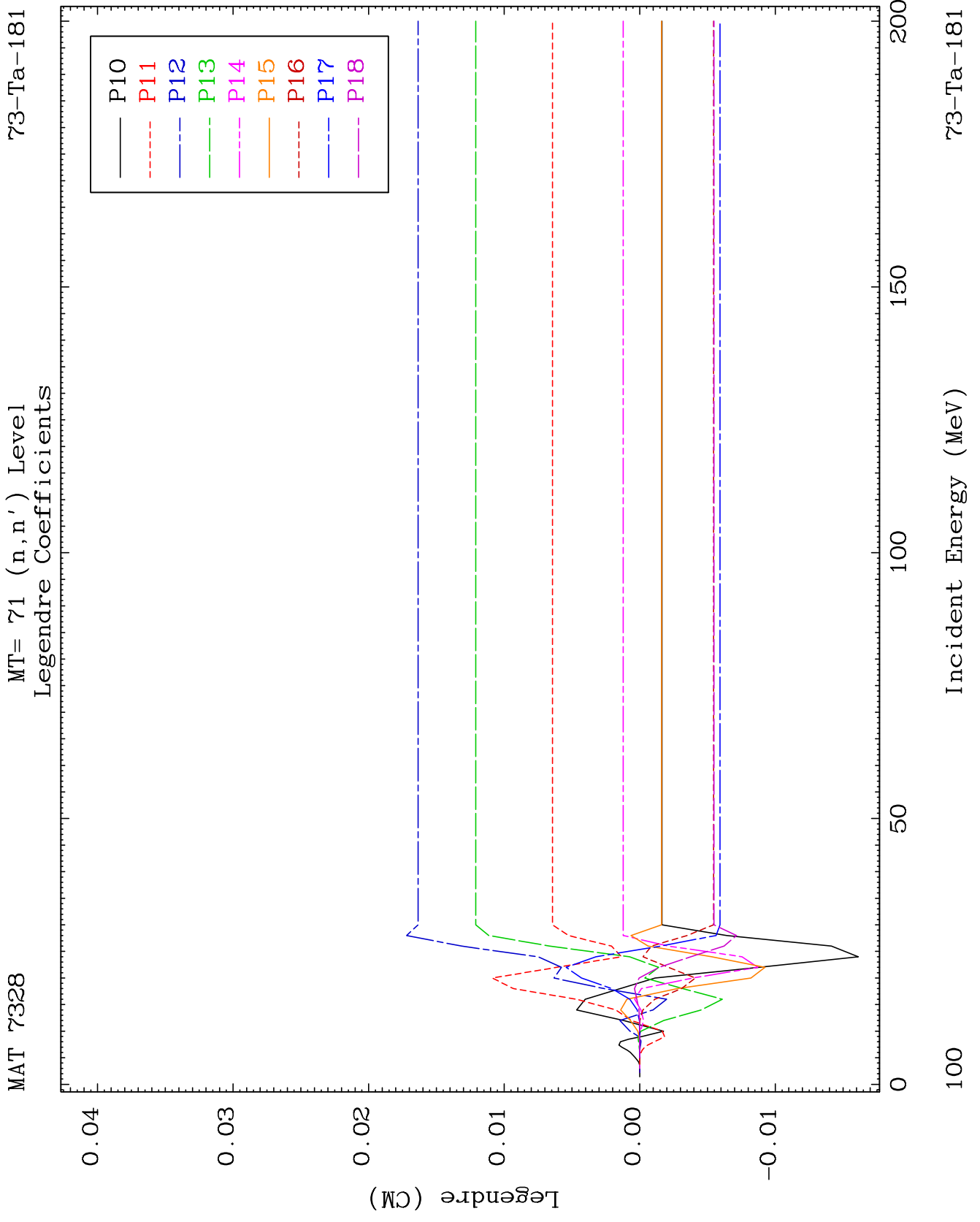
97

Incident Energy (MeV)

73-Ta-181



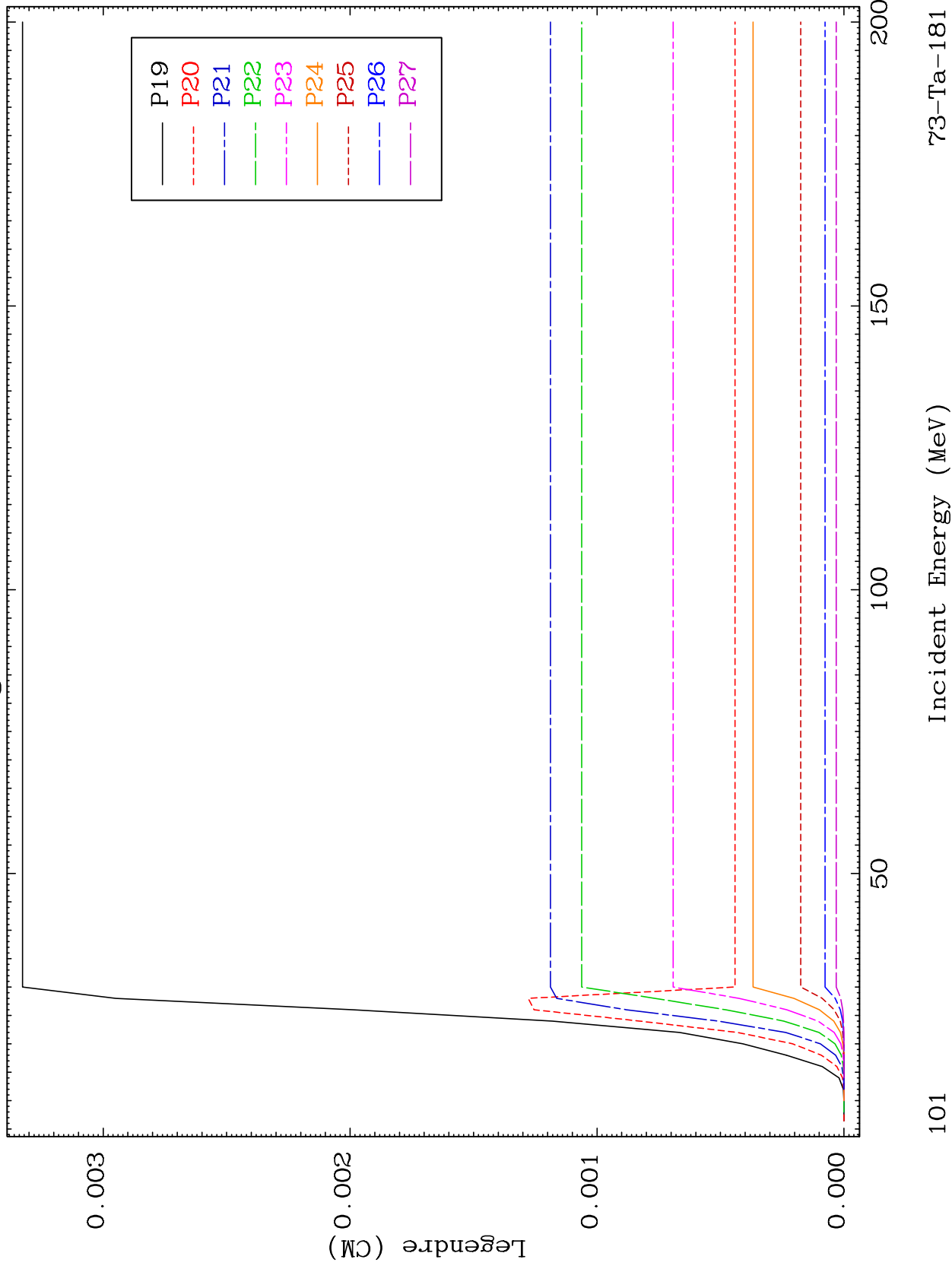




MAT 7328

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

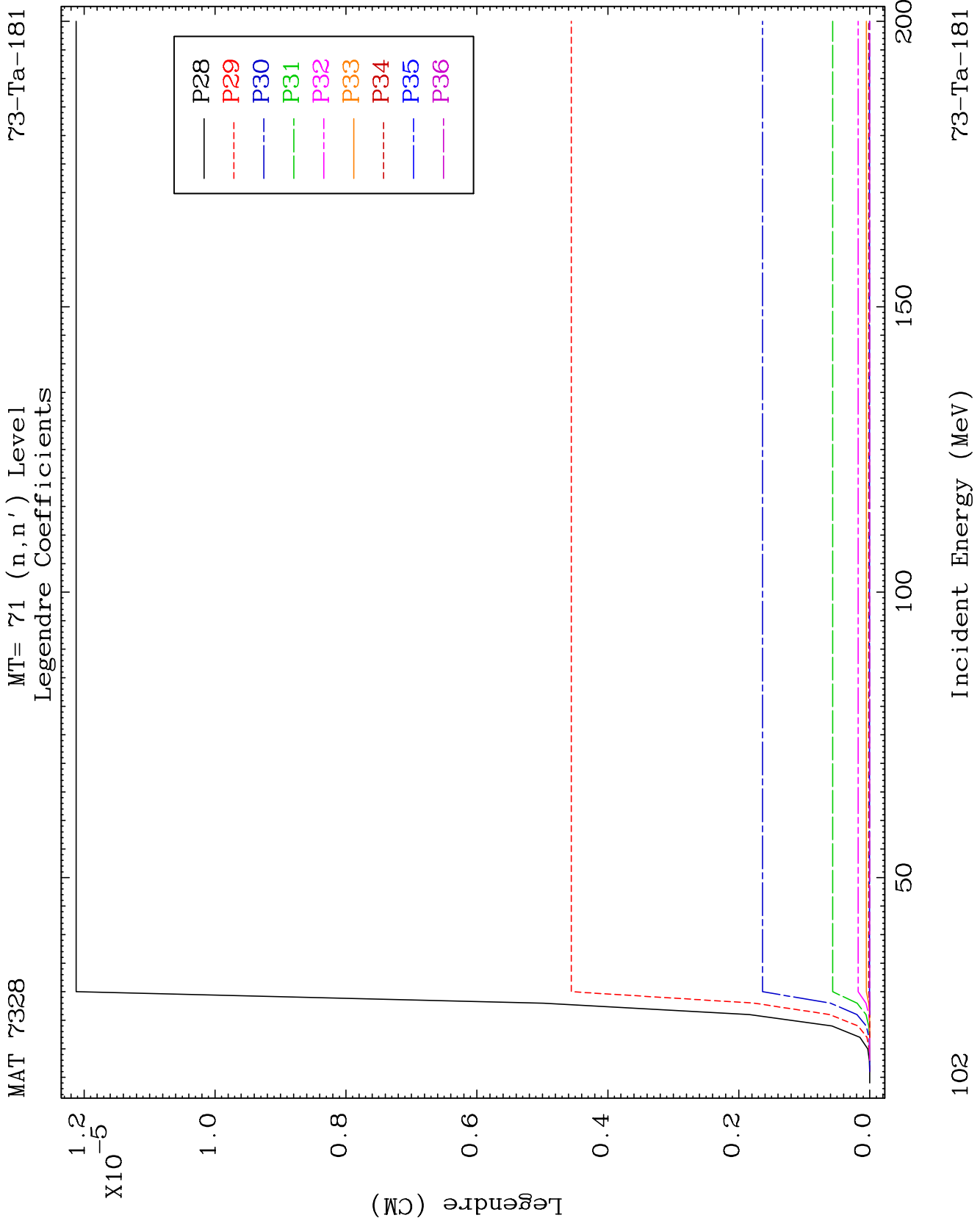
73-Ta-181

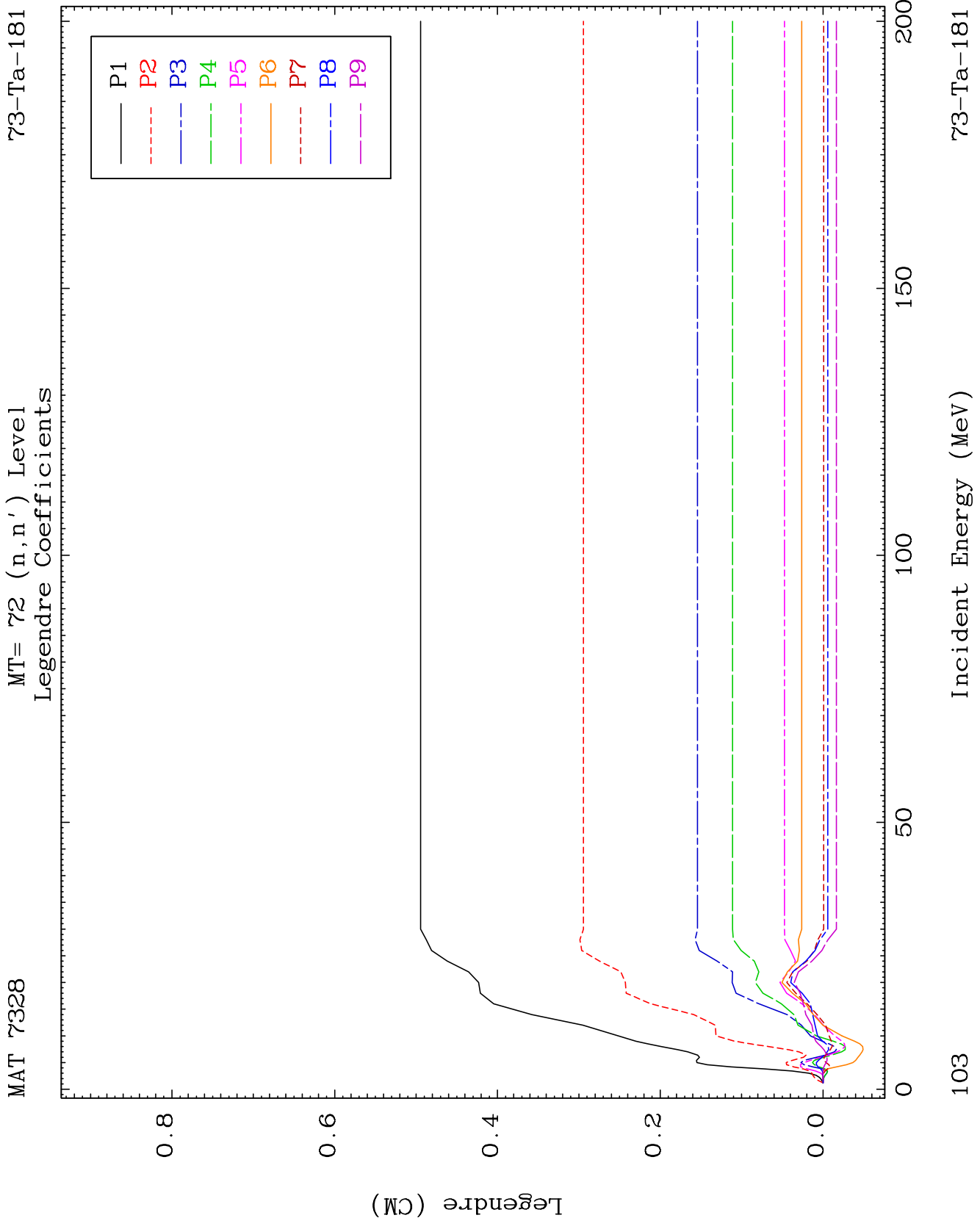


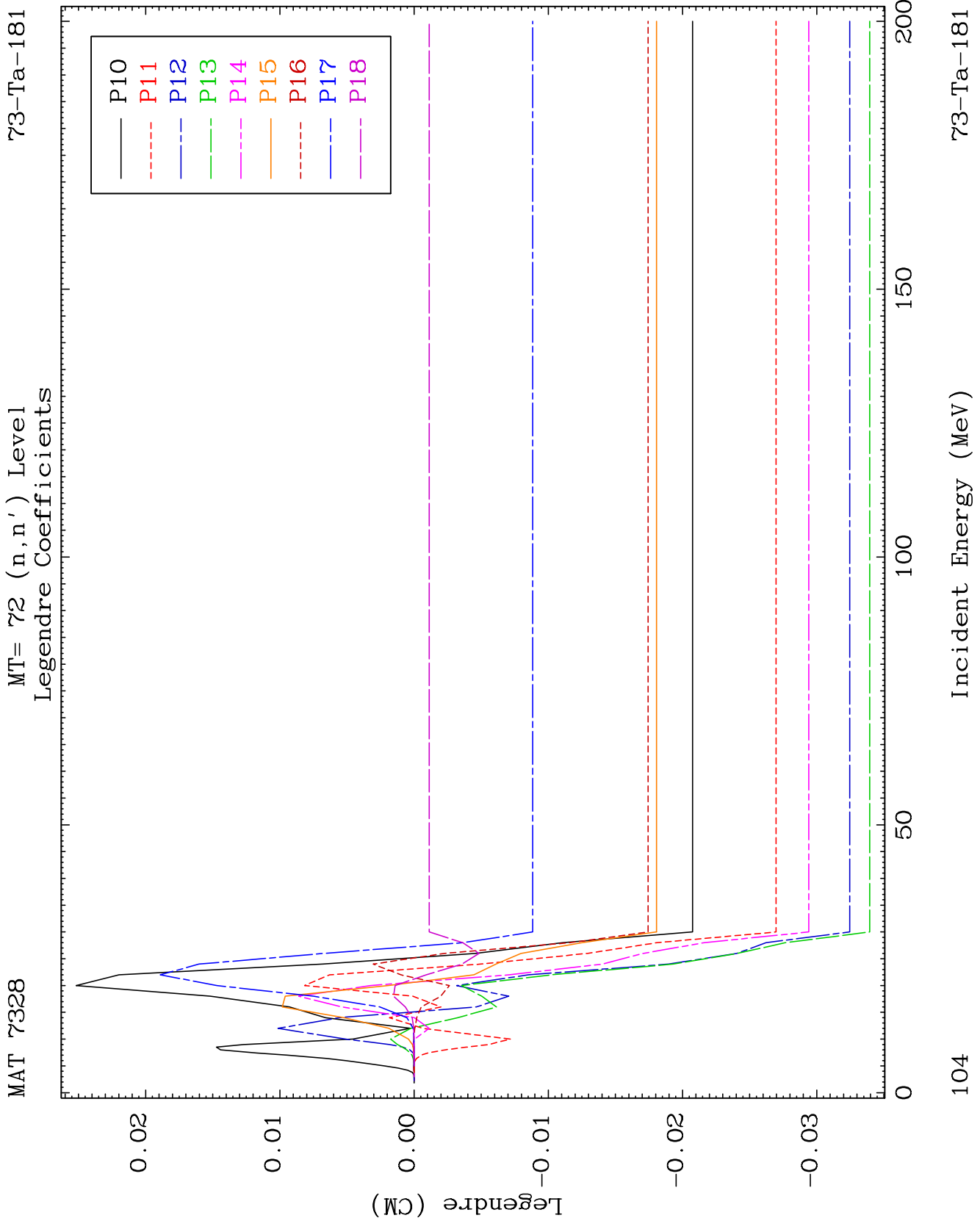
101

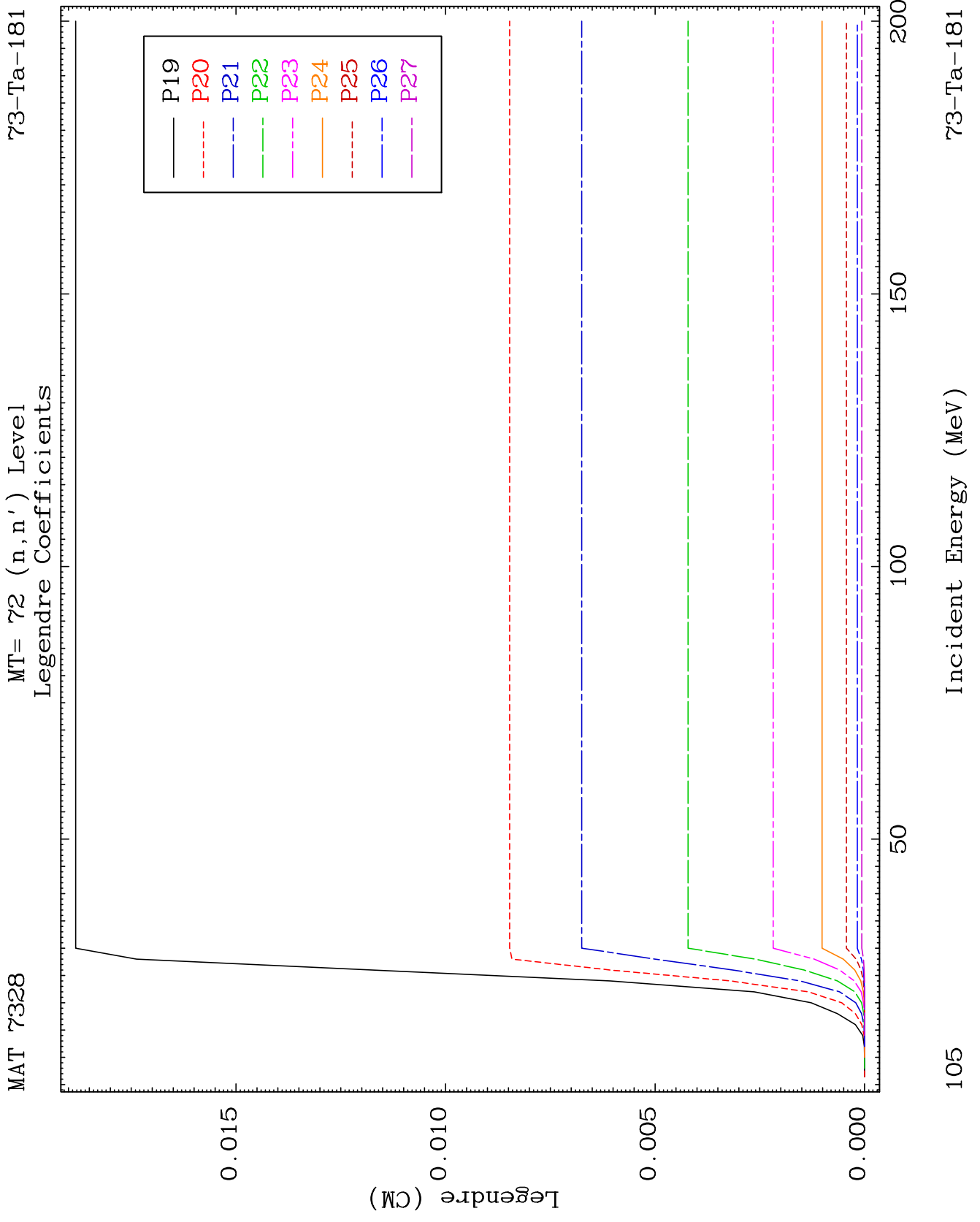
Incident Energy (MeV)

73-Ta-181





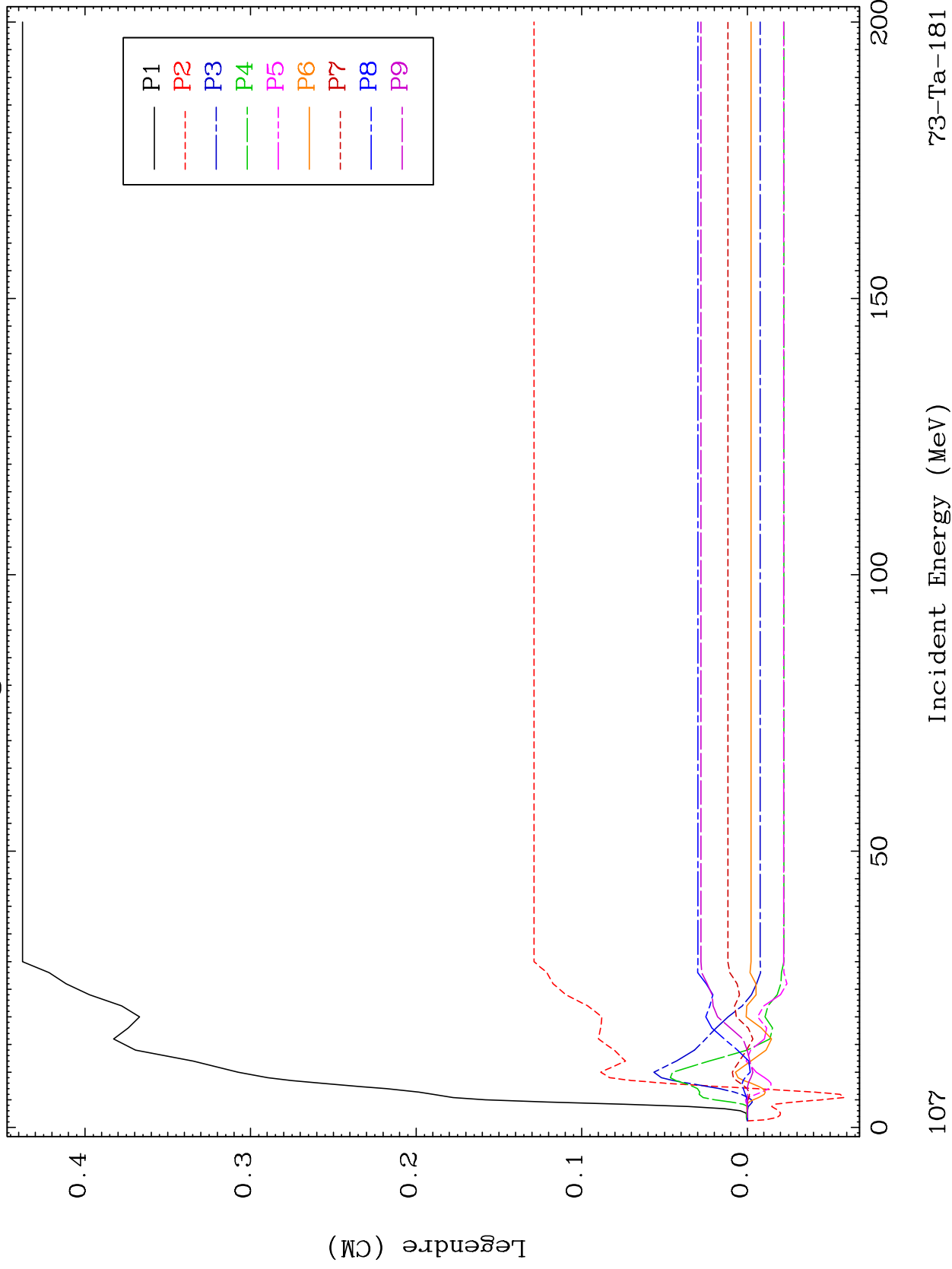




MAT 7328

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

73-Ta-181



73-Ta-181

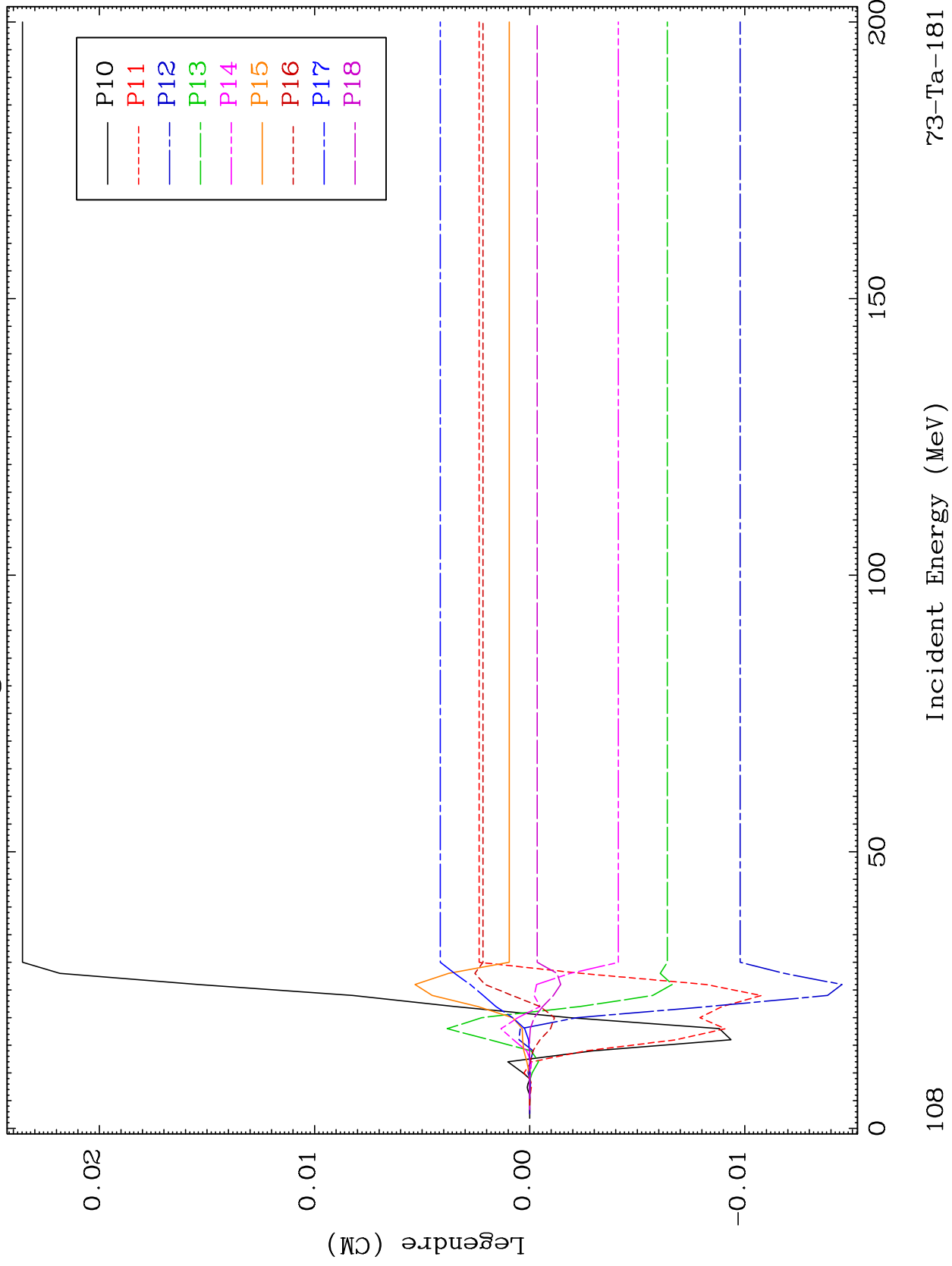
Incident Energy (MeV)

107

MAT 7328

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

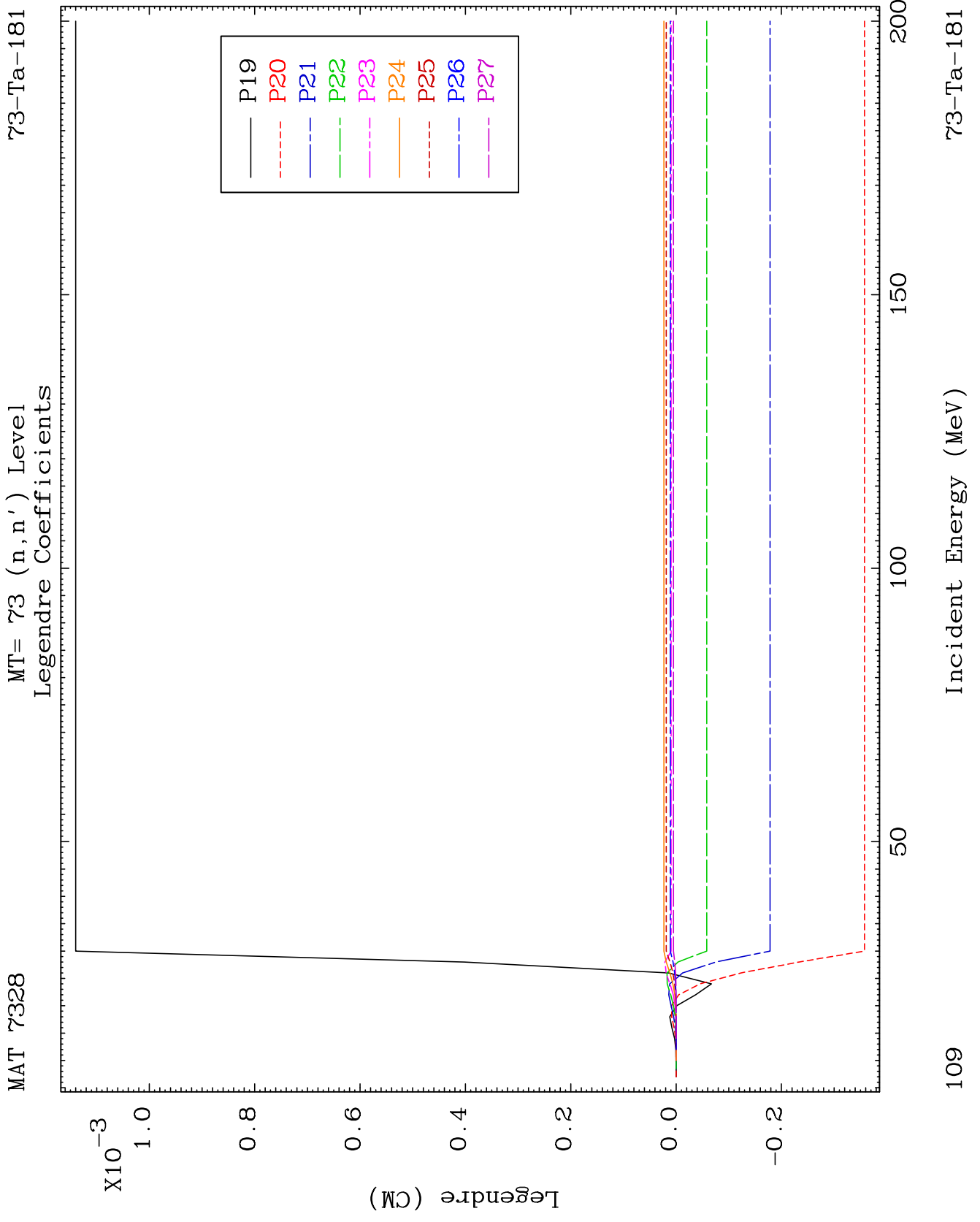
73-Ta-181

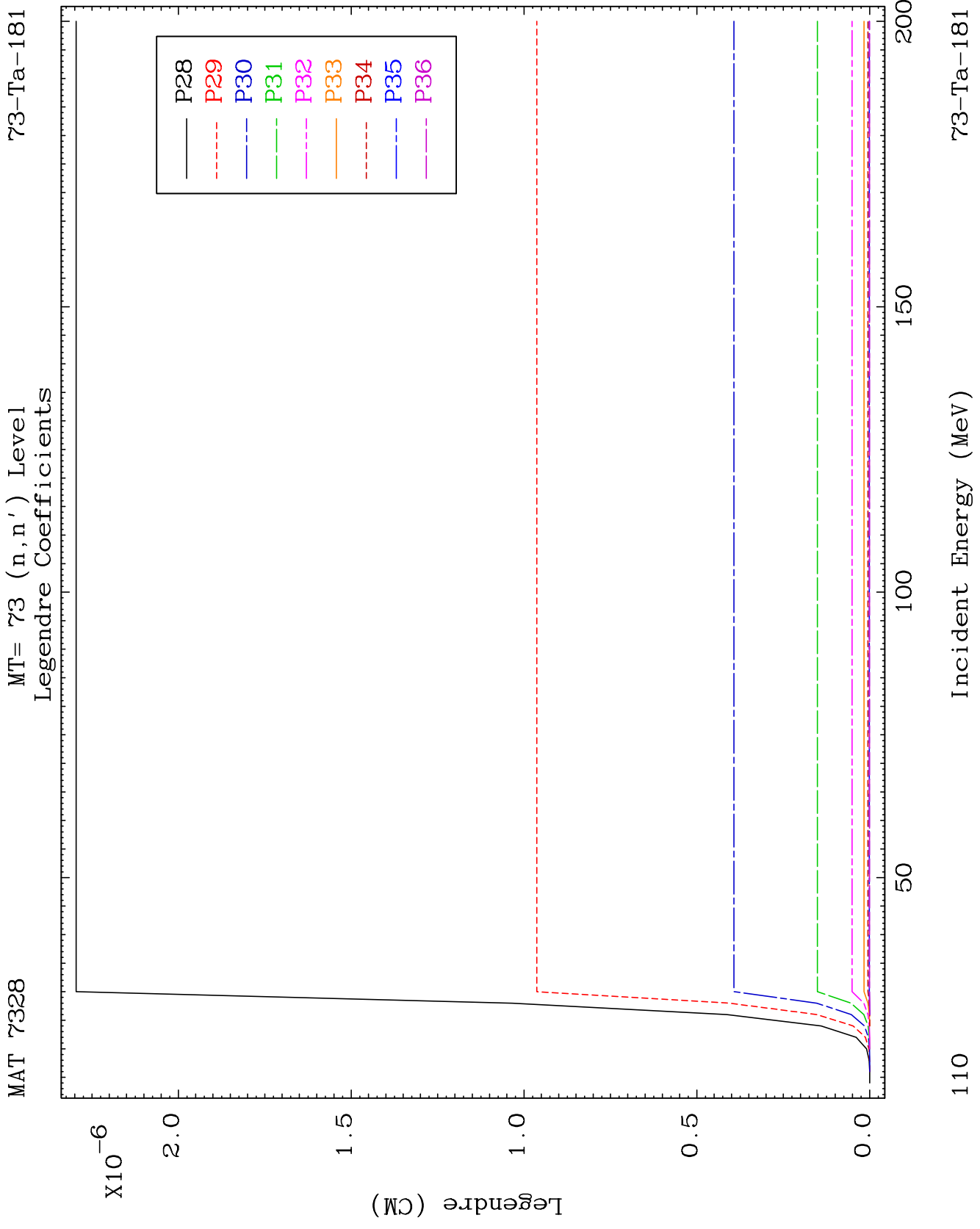


73-Ta-181

Incident Energy (MeV)

108

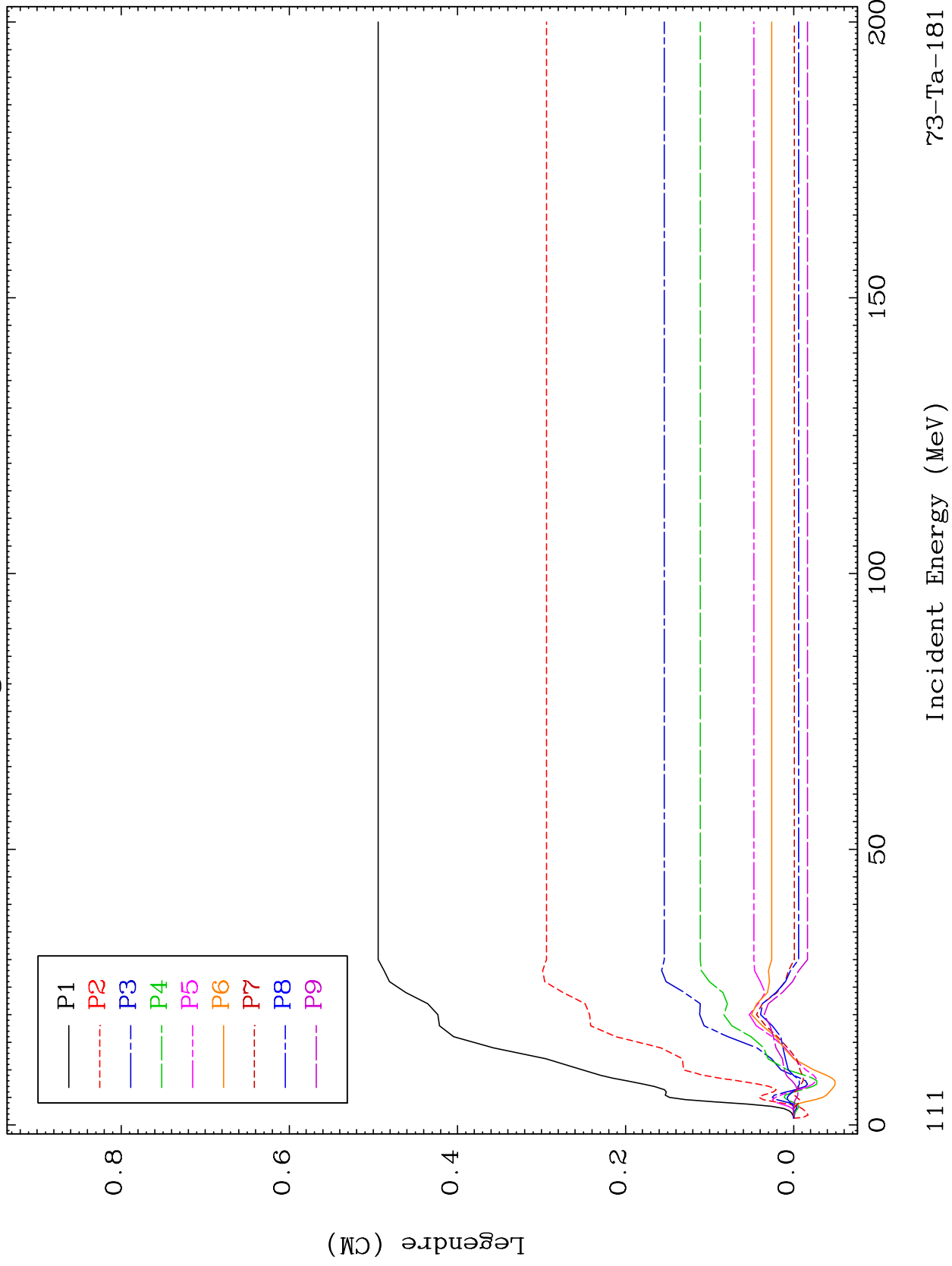




MAT 7328

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

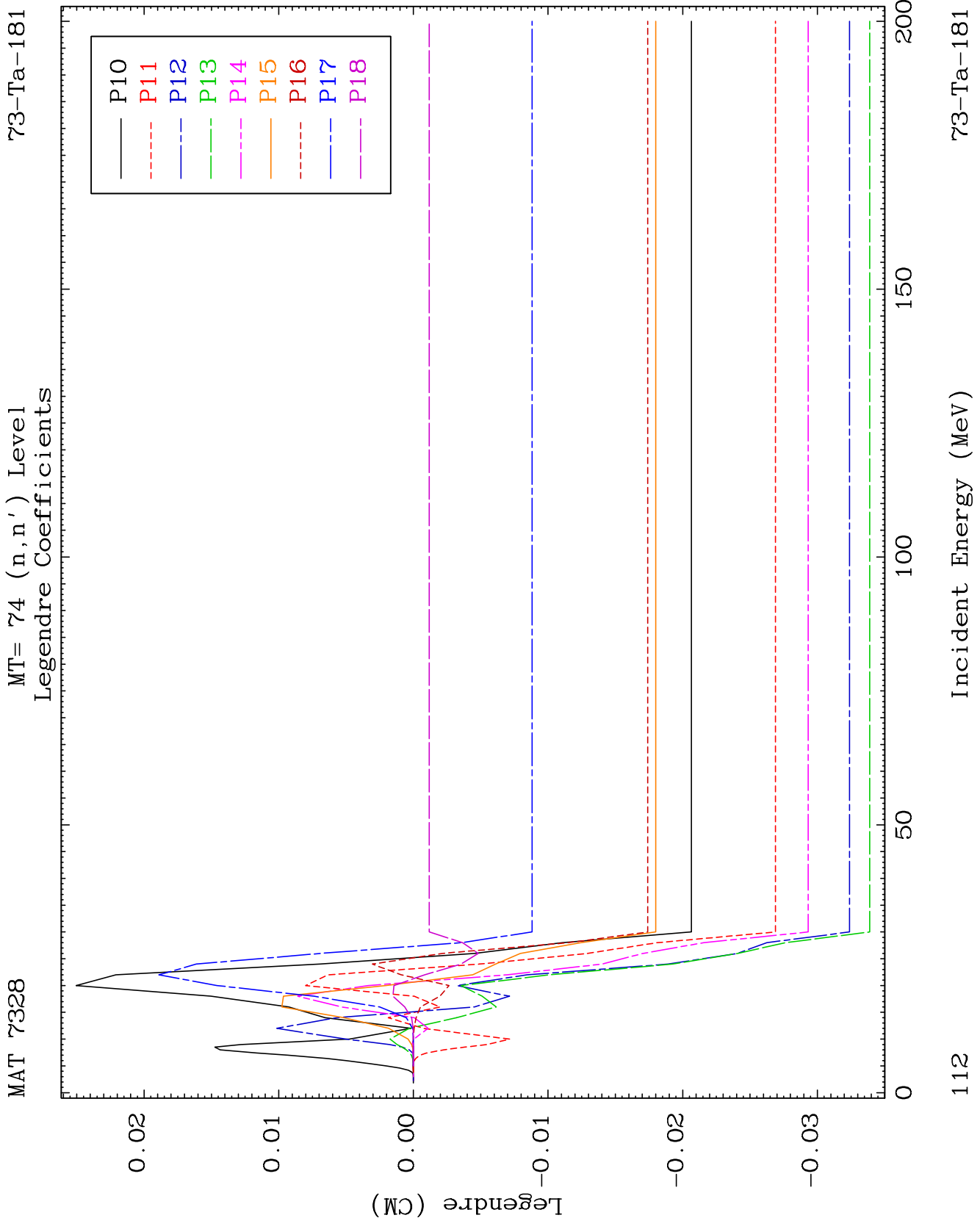
⁷³Ta-181

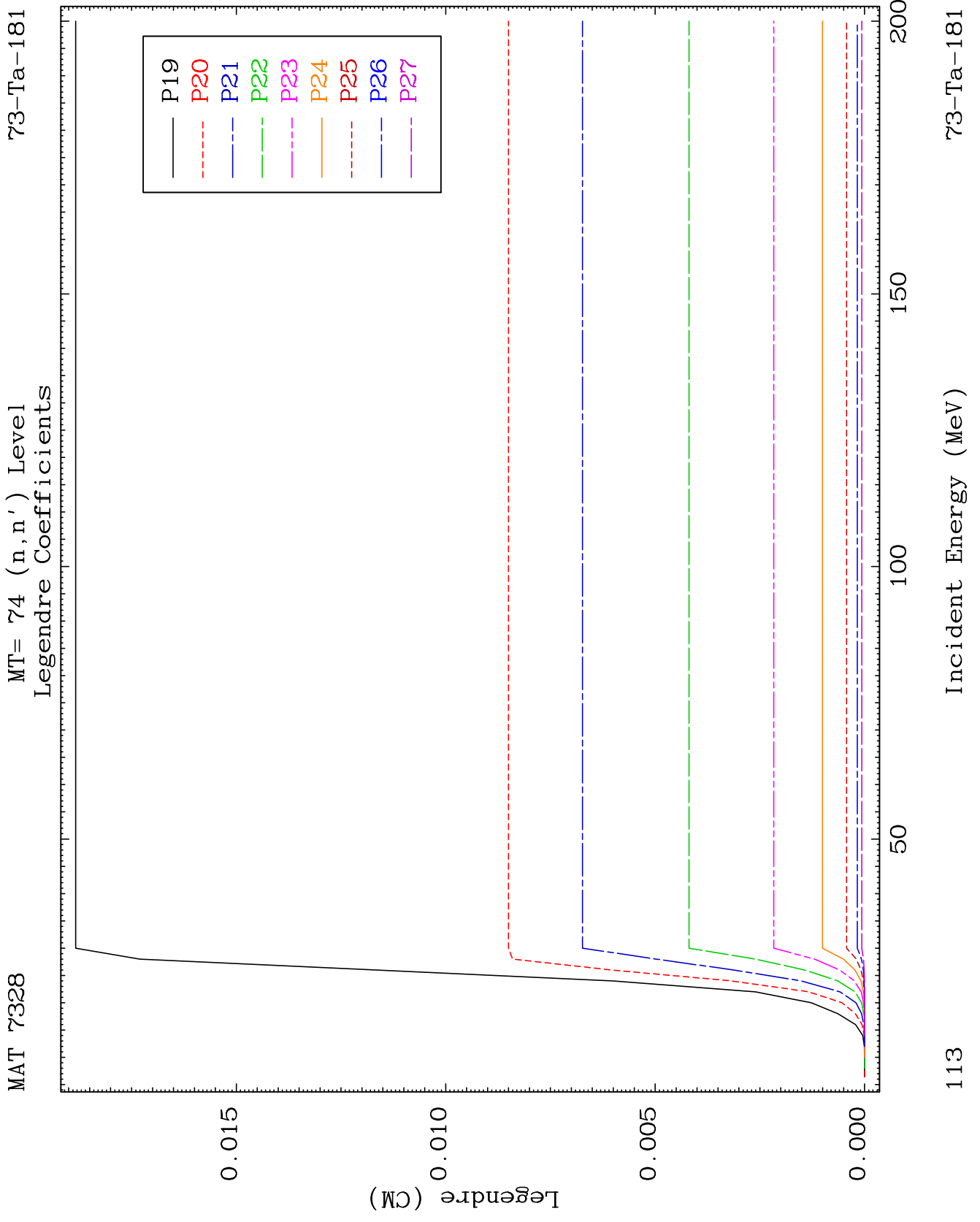


111

Incident Energy (MeV)

⁷³Ta-181

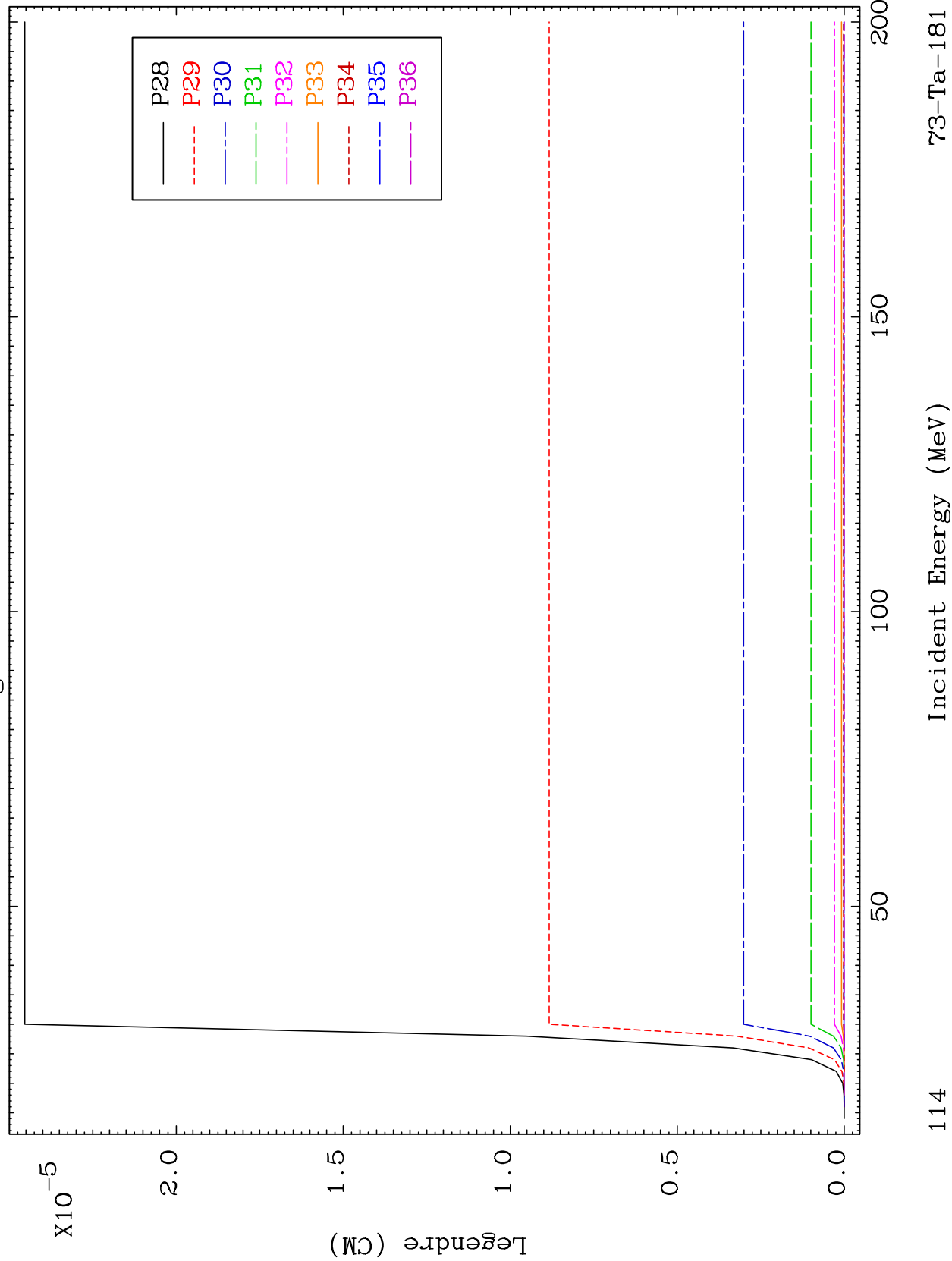




MAT 7328

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

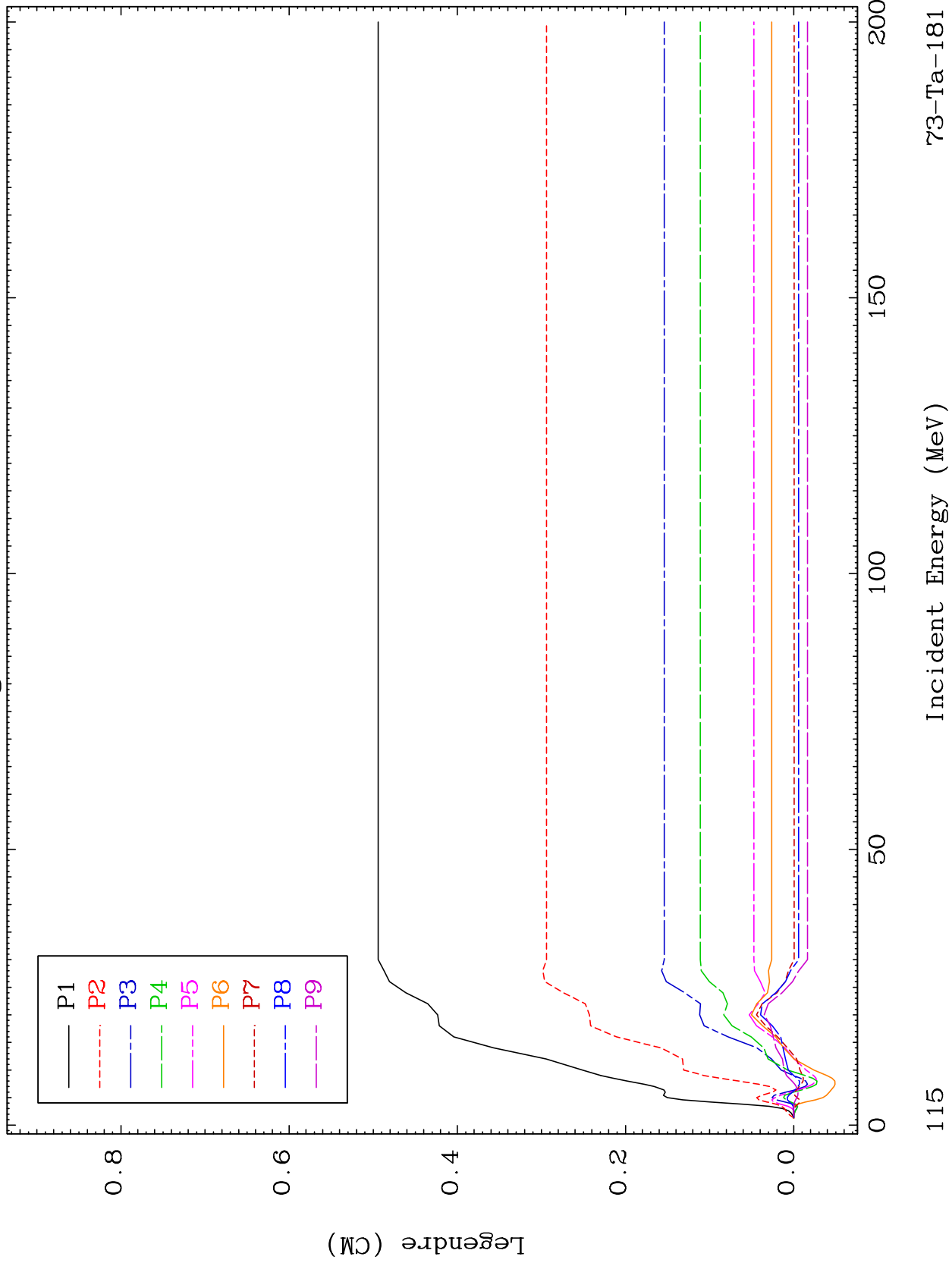
73-Ta-181



MAT 7328

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

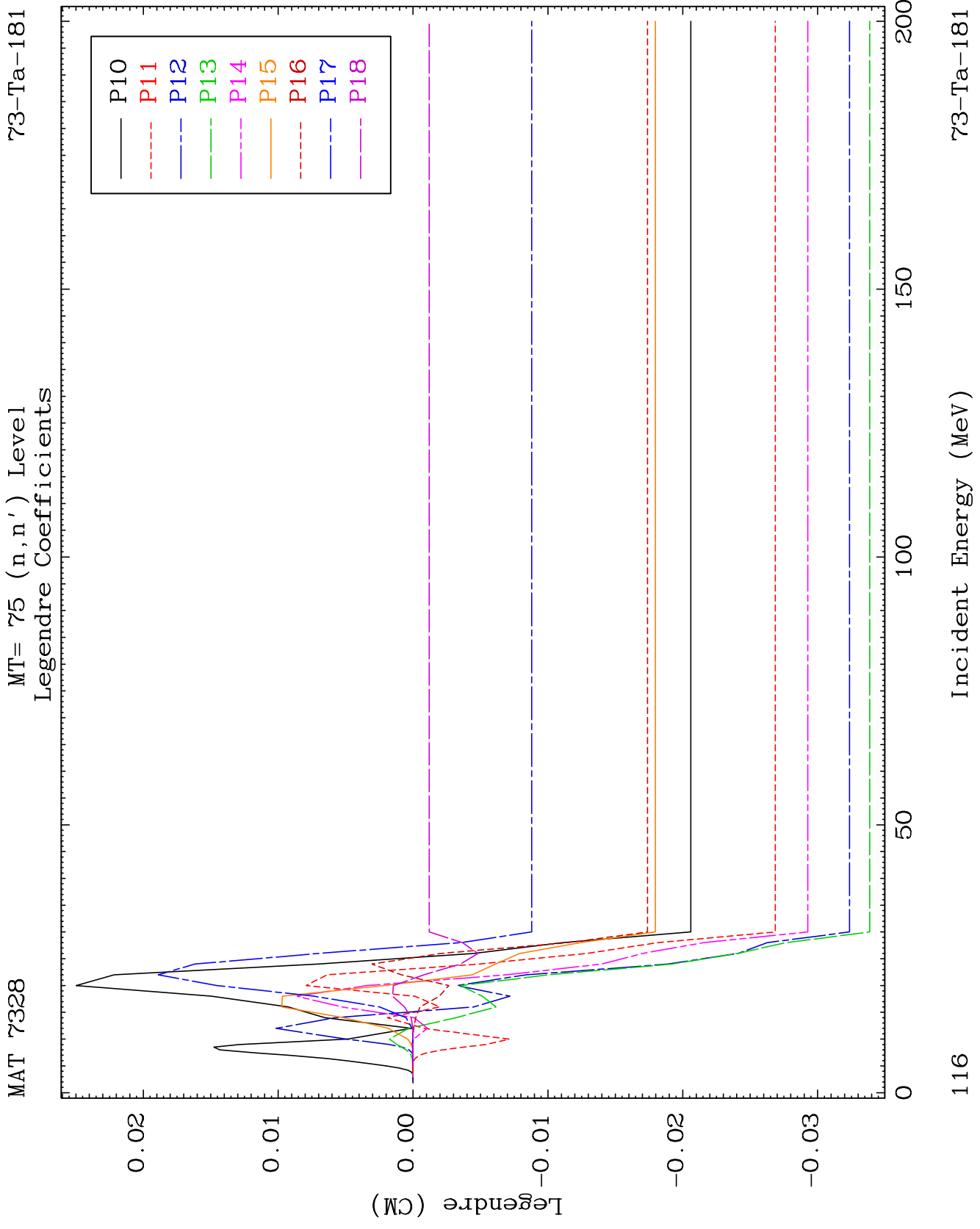
73-Ta-181

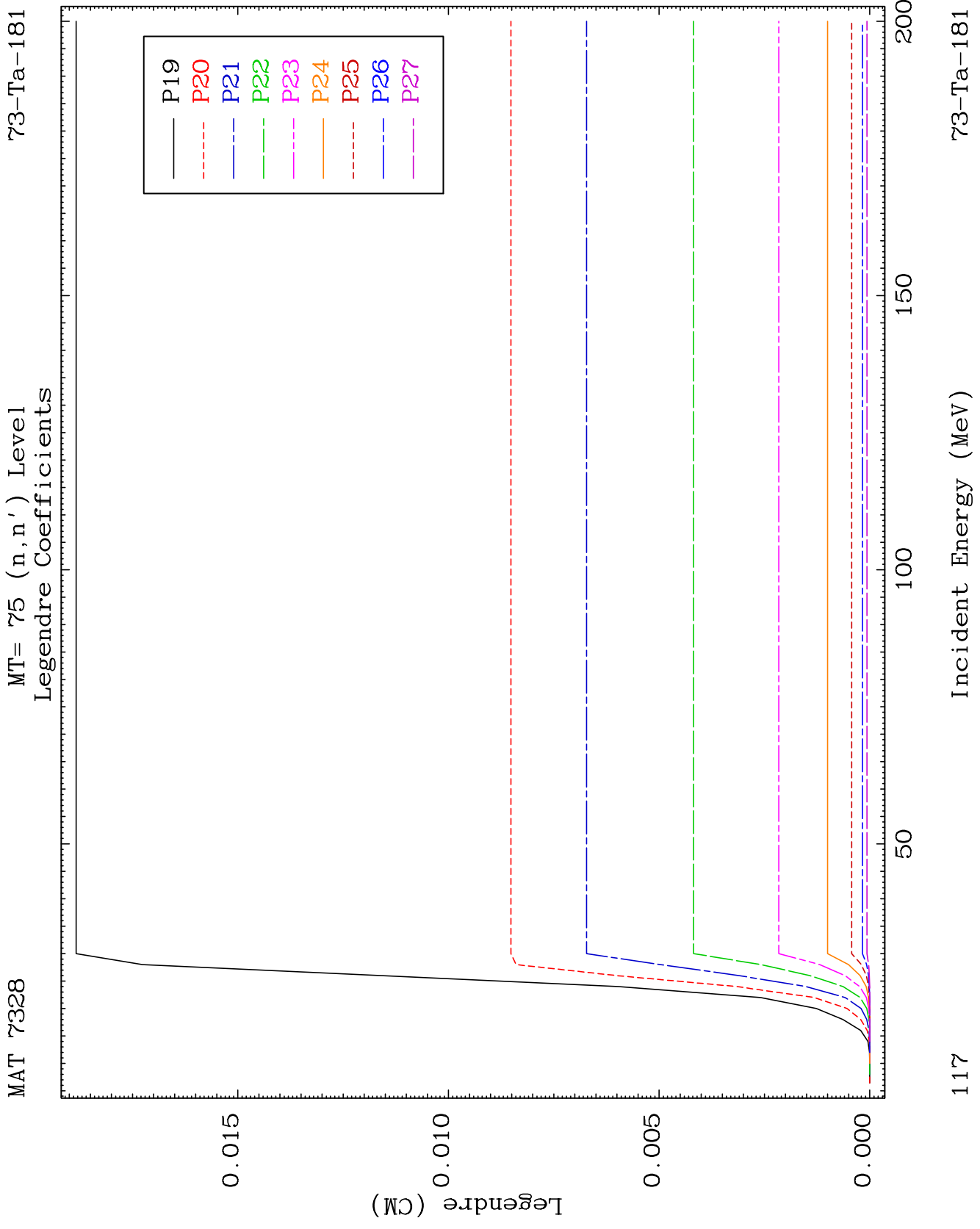


73-Ta-181

Incident Energy (MeV)

115

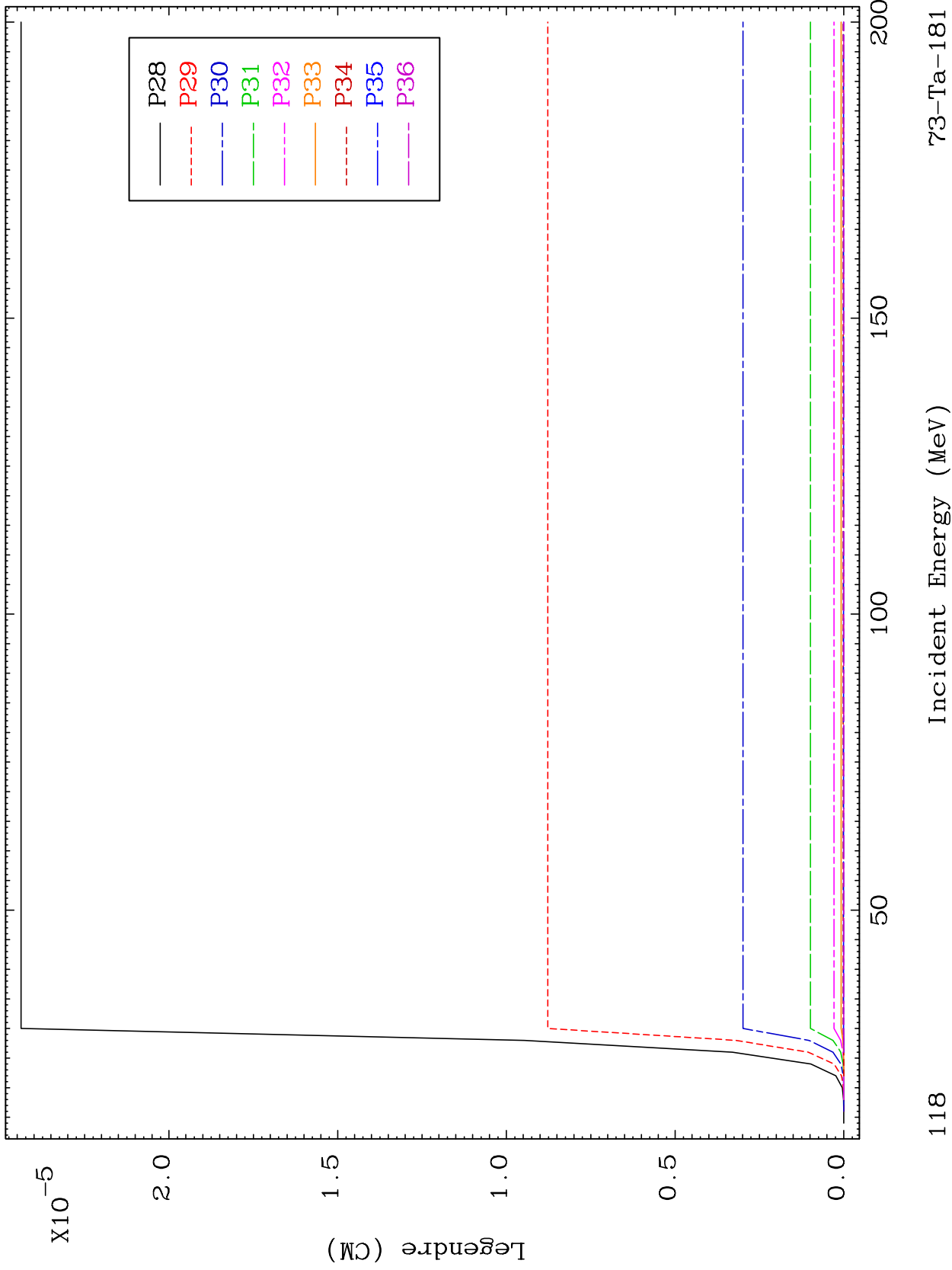




MAT 7328

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

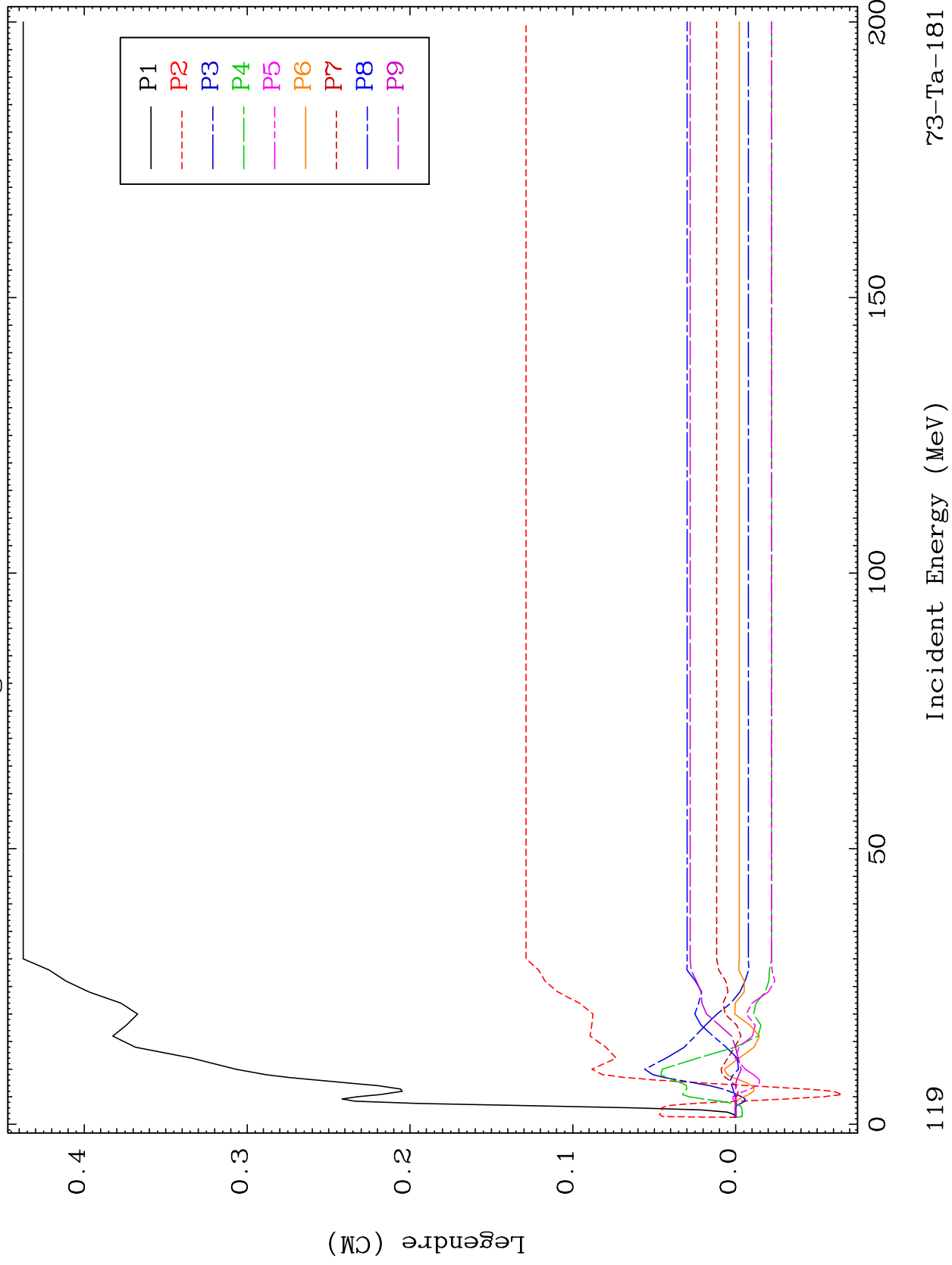
73-Ta-181



MAT 7328

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

73-Ta-181



73-Ta-181

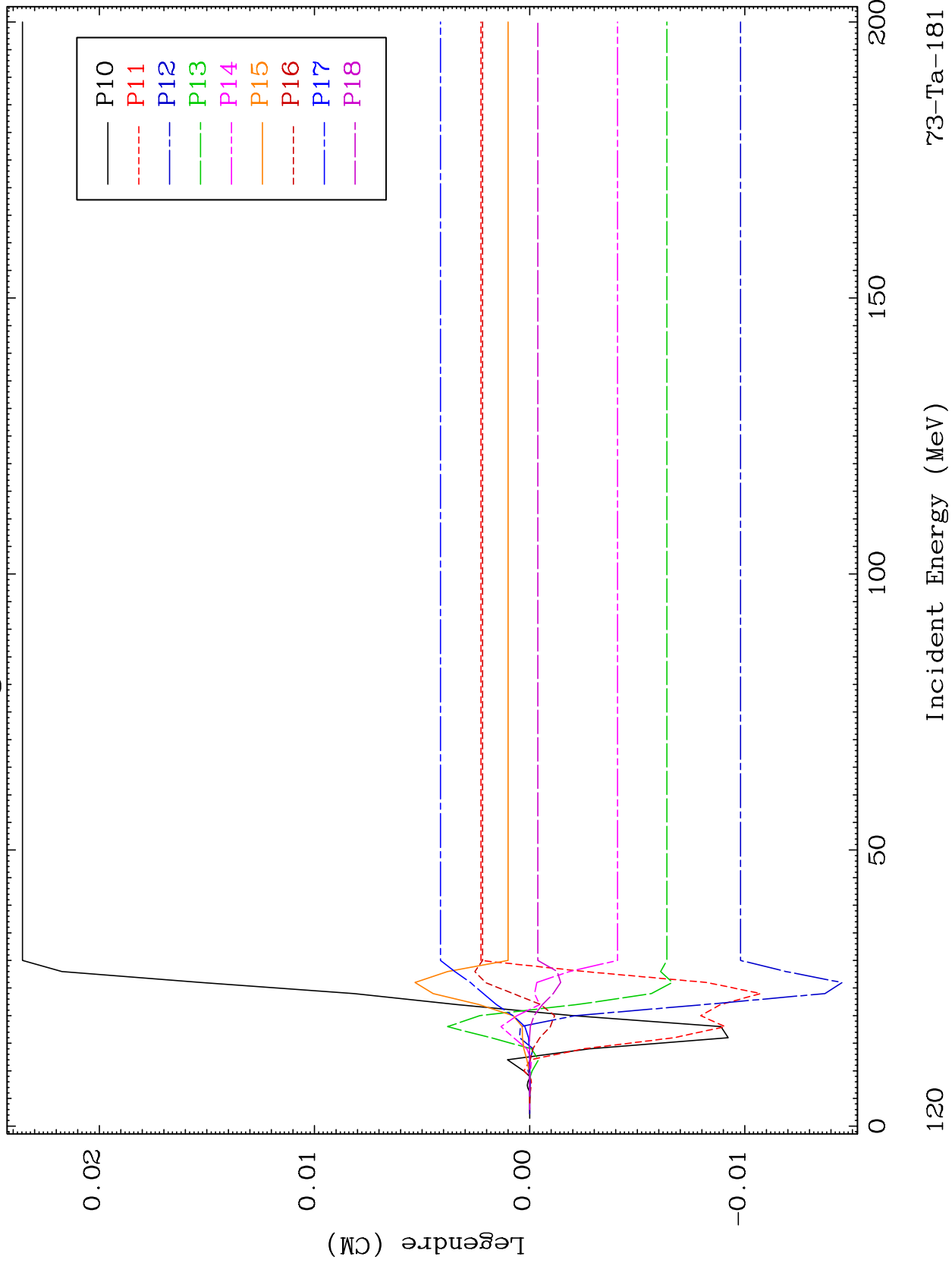
Incident Energy (MeV)

119

MAT 7328

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

73-Ta-181



73-Ta-181

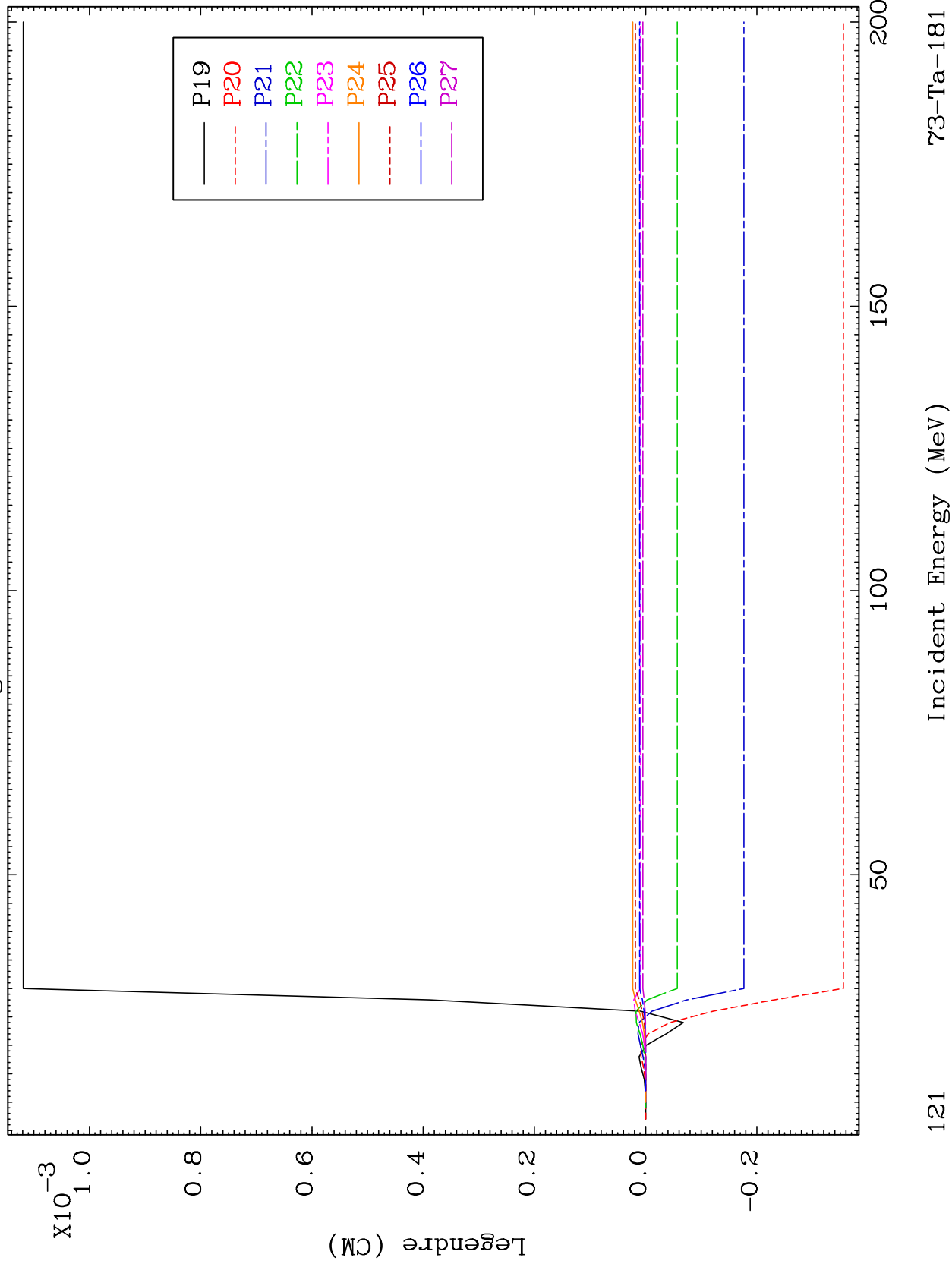
Incident Energy (MeV)

120

MAT 7328

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

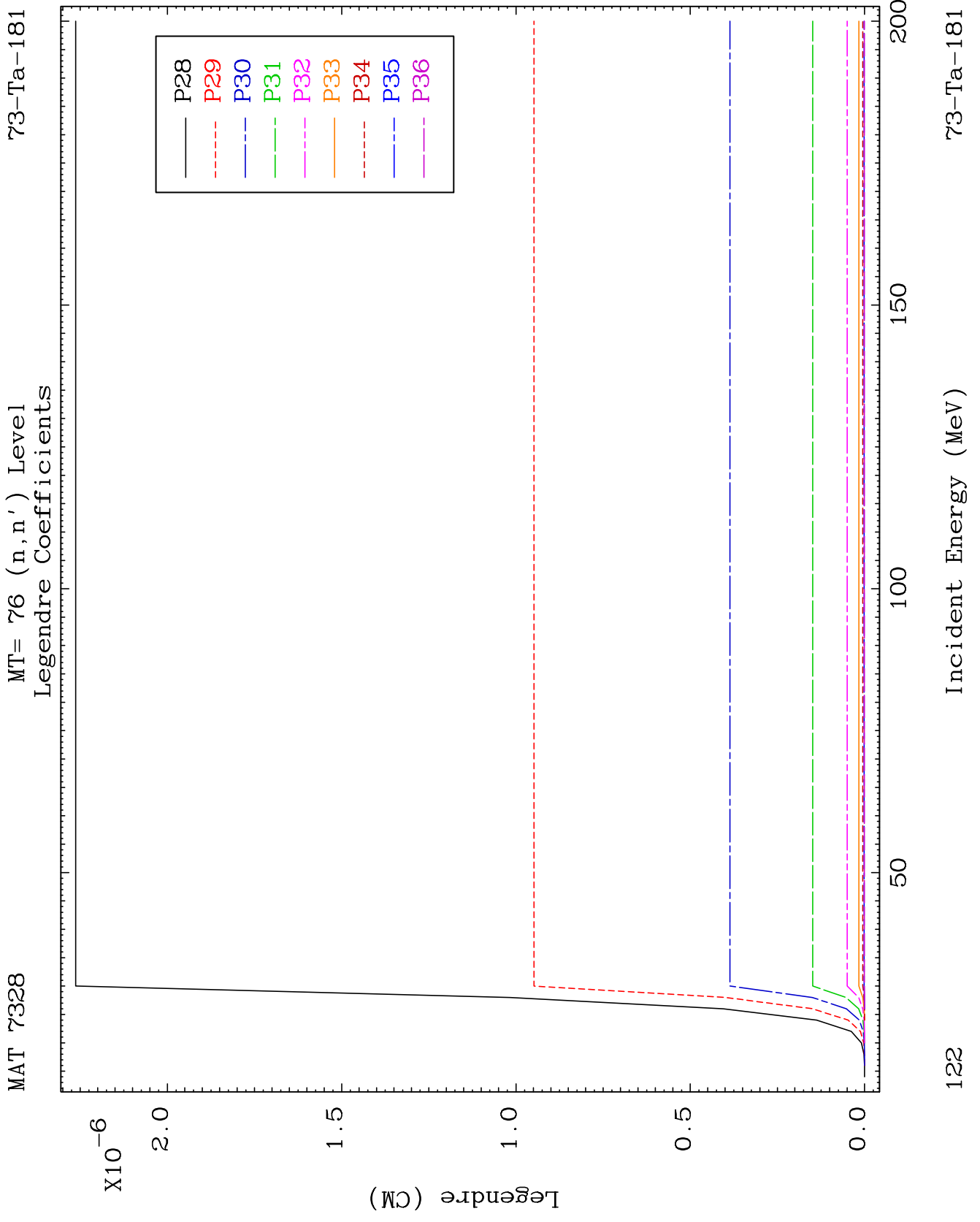
73-Ta-181



121

Incident Energy (MeV)

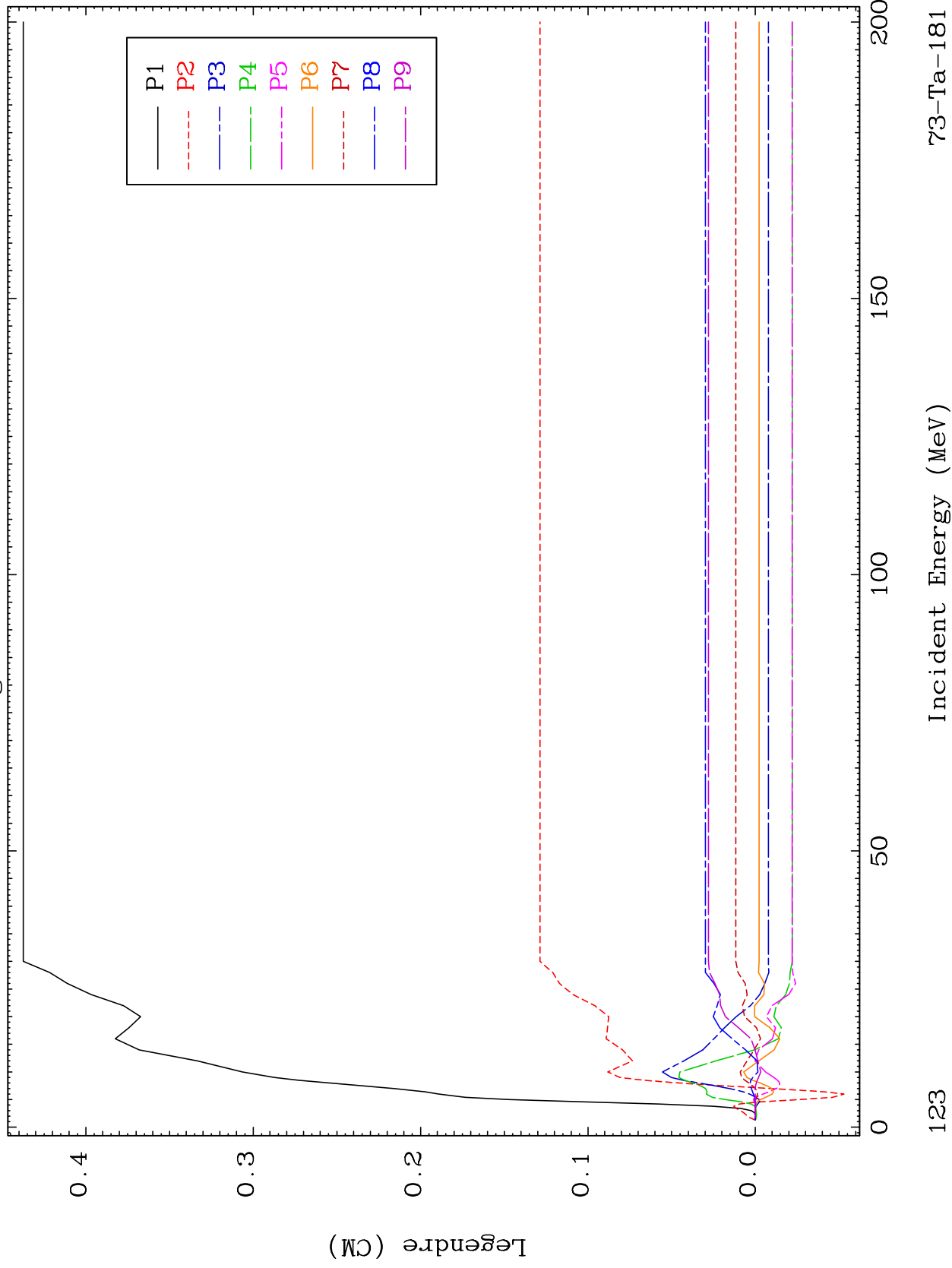
73-Ta-181



MAT 7328

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

73-Ta-181



73-Ta-181

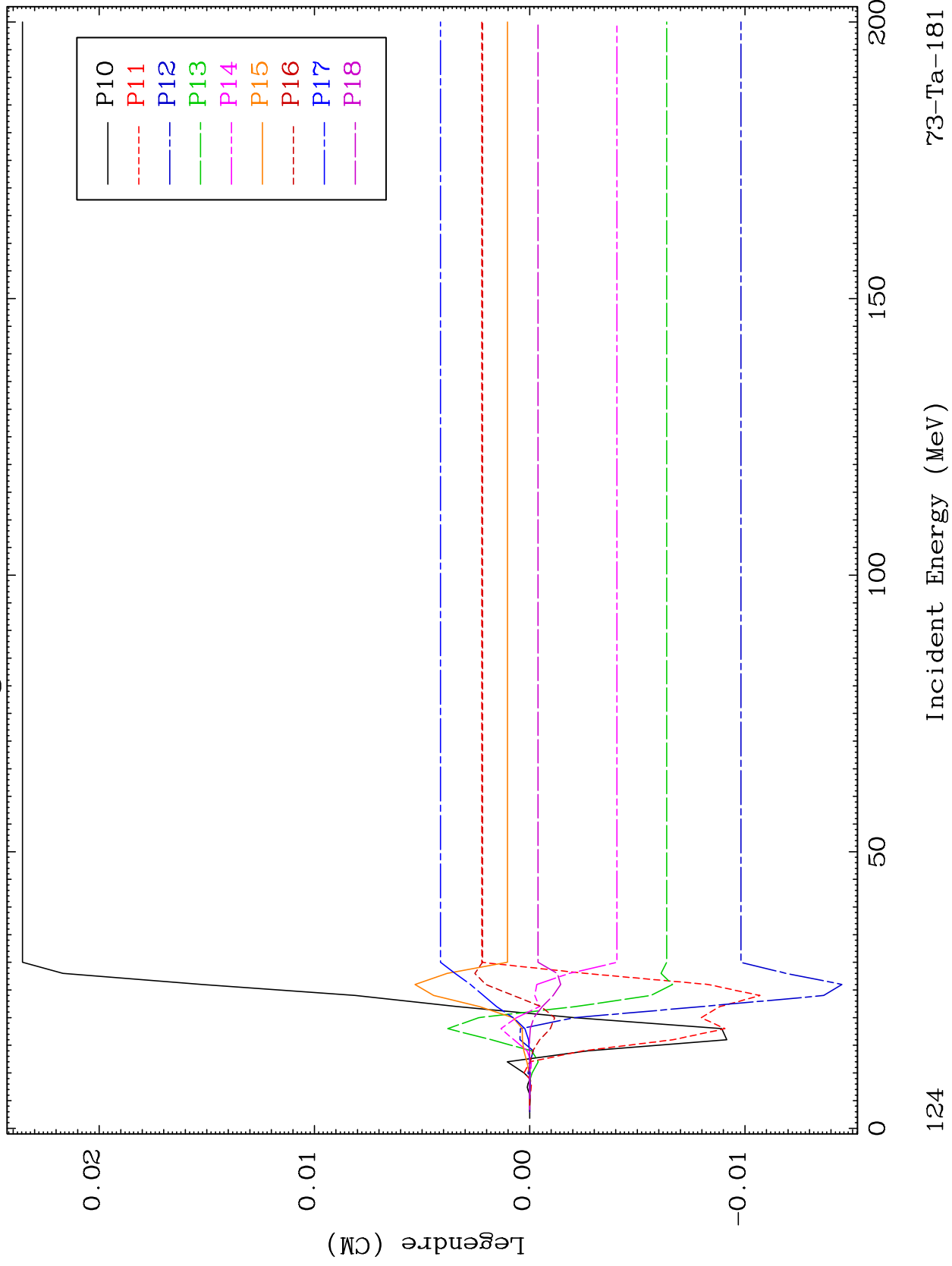
Incident Energy (MeV)

123

MAT 7328

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

73-Ta-181



73-Ta-181

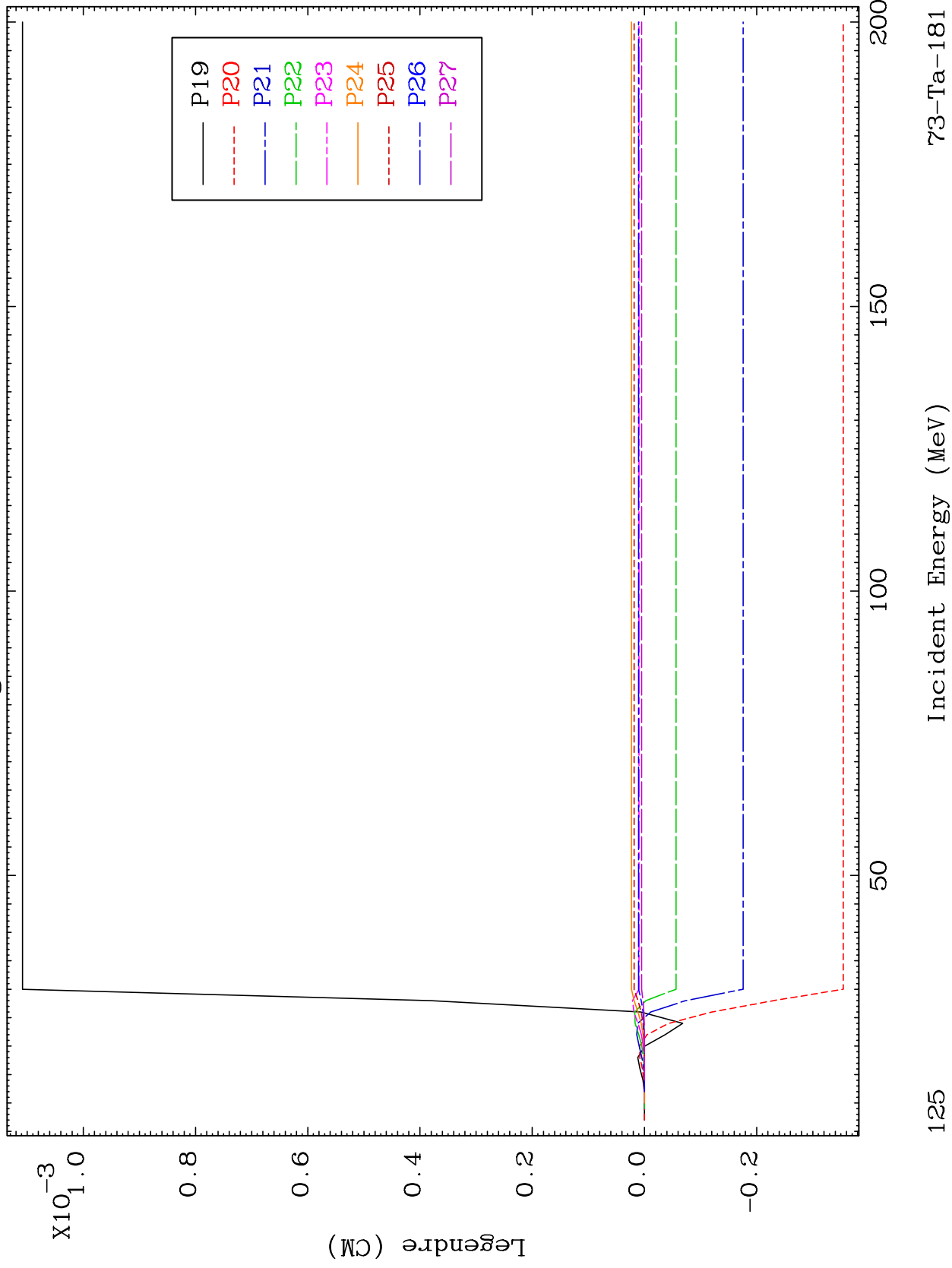
Incident Energy (MeV)

124

MAT 7328

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

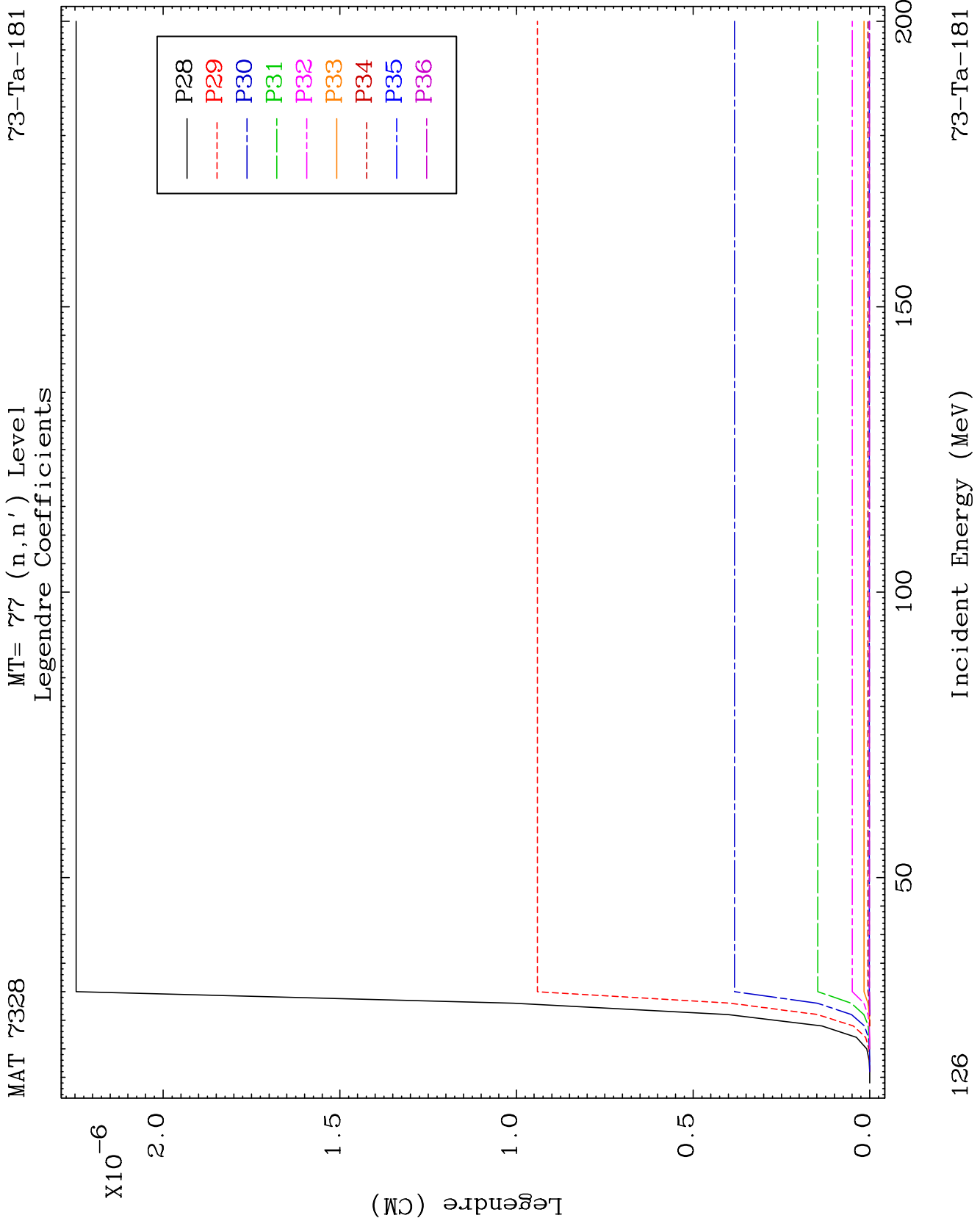
73-Ta-181



125

Incident Energy (MeV)

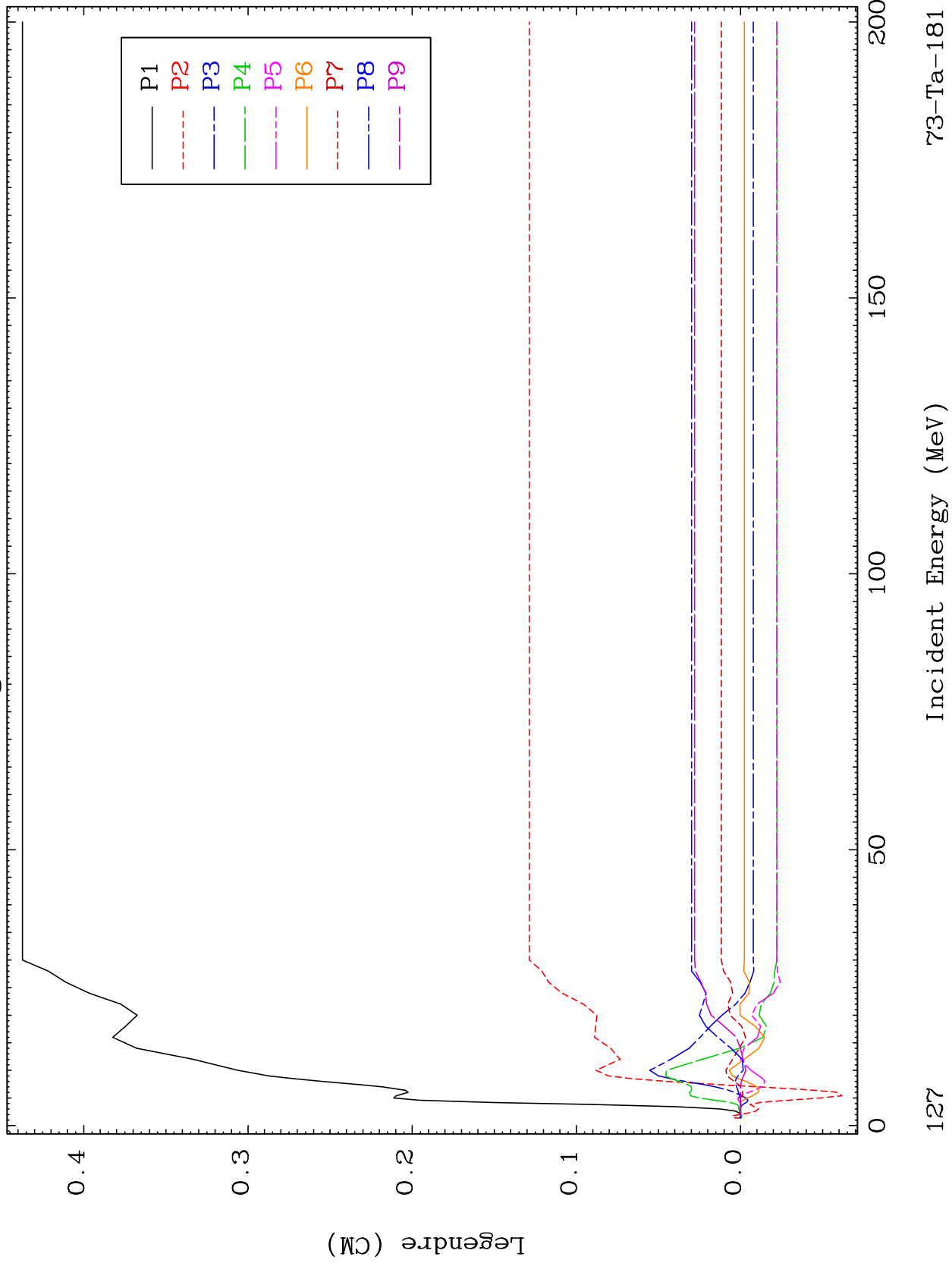
73-Ta-181



MAT 7328

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

73-Ta-181



73-Ta-181

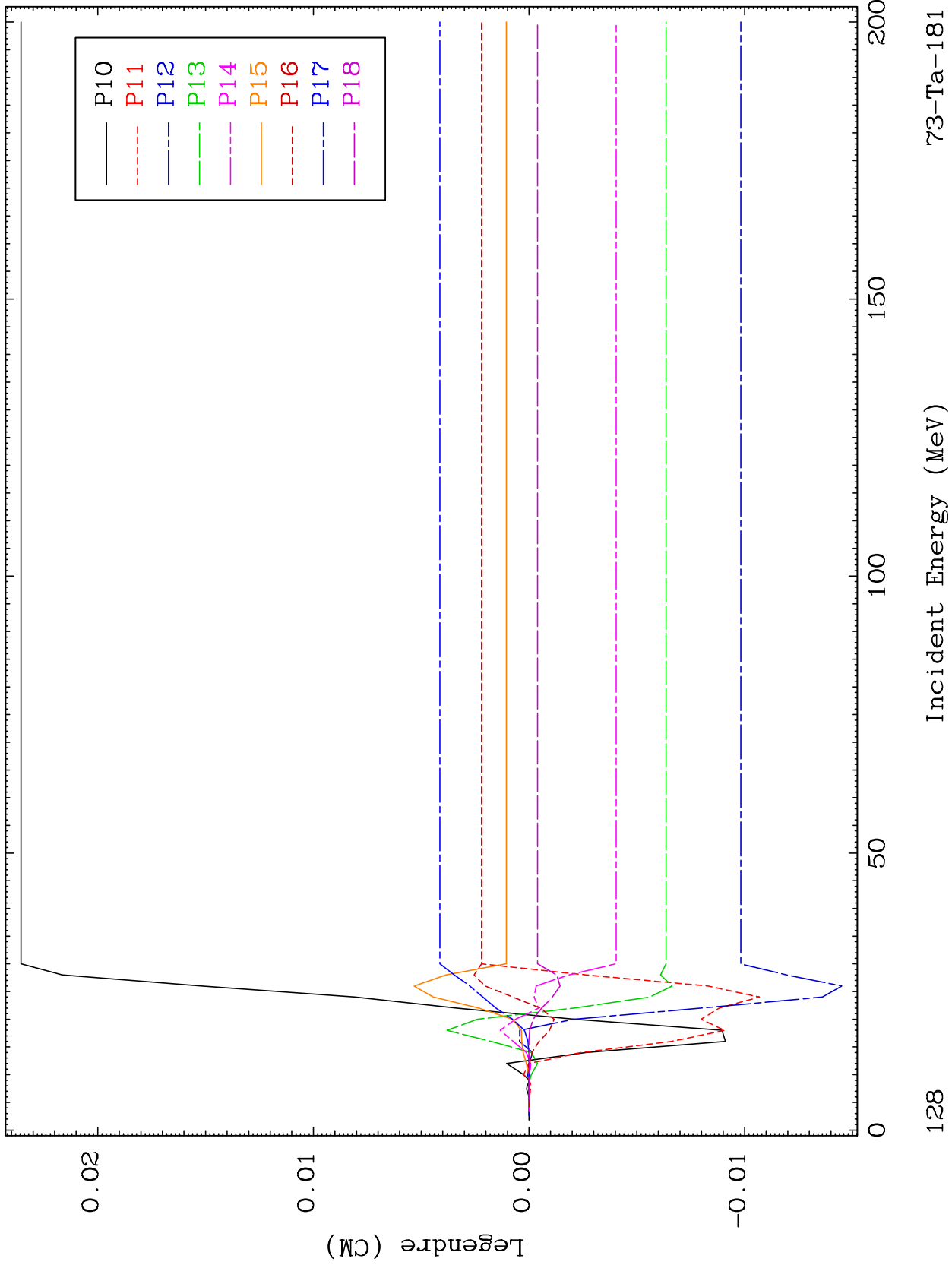
Incident Energy (MeV)

127

MAT 7328

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

73-Ta-181



128

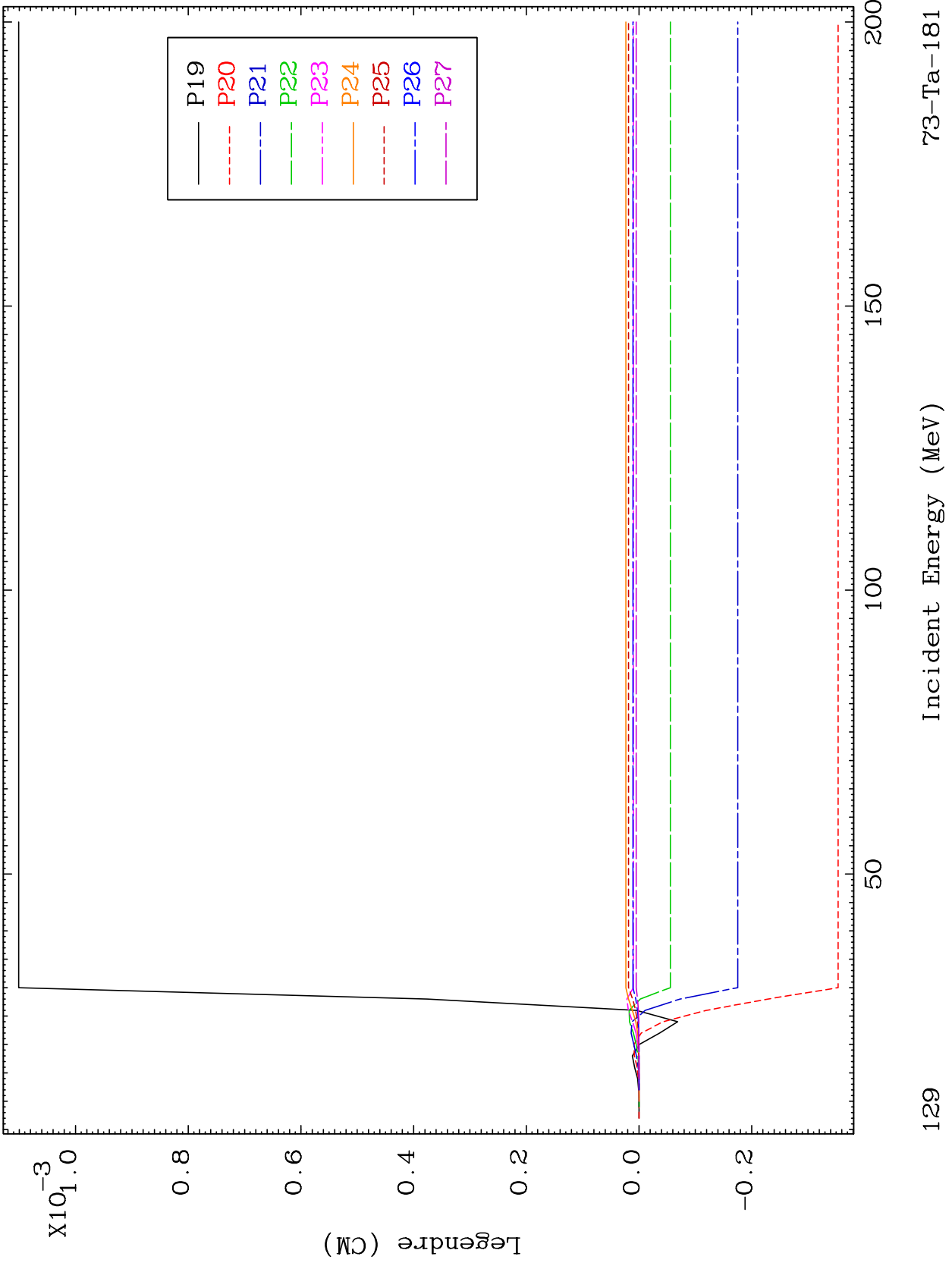
Incident Energy (MeV)

73-Ta-181

MAT 7328

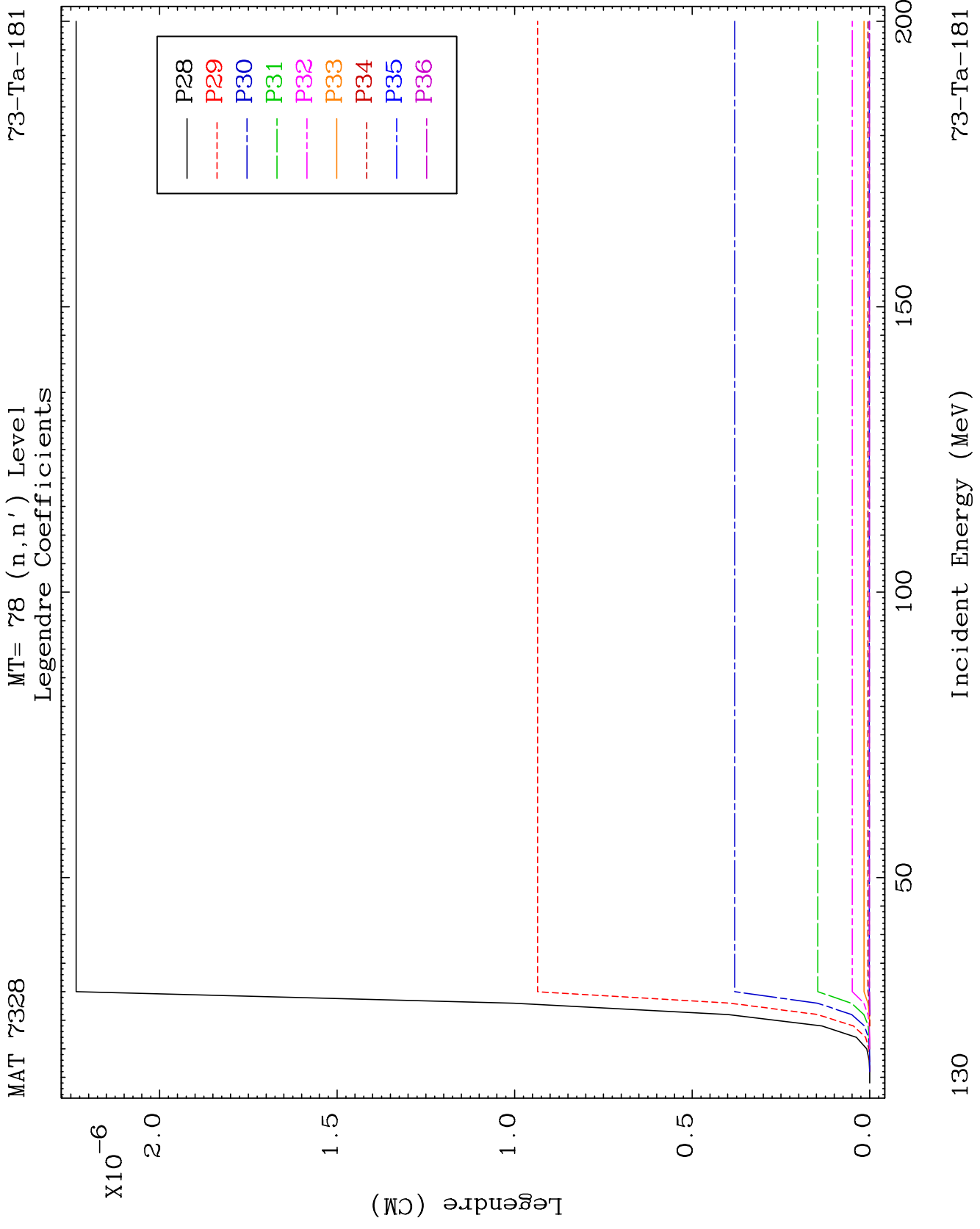
MT= 78 (n,n') Level
Legendre Coefficients

73-Ta-181



129

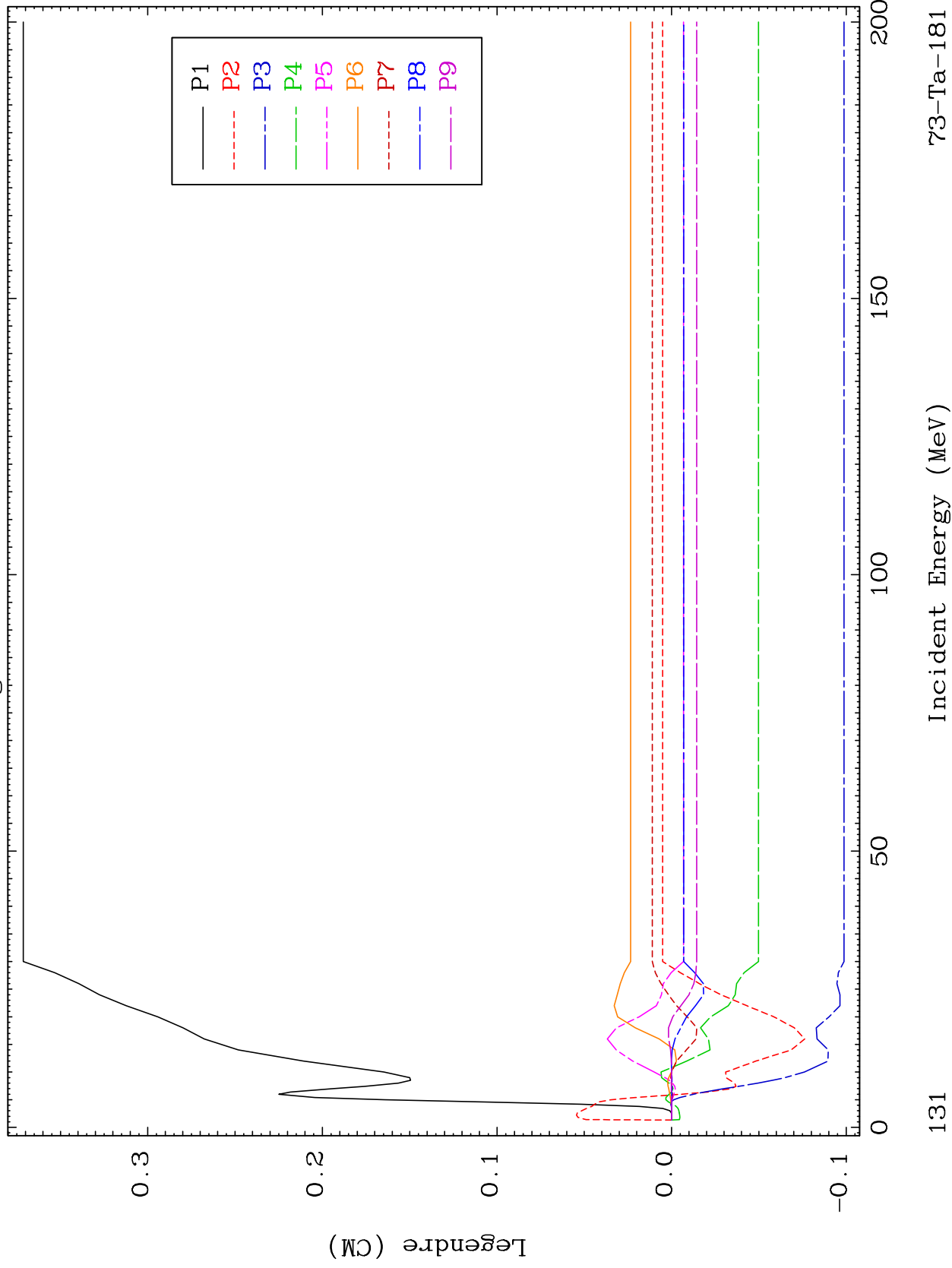
73-Ta-181



MAT 7328

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

73-Ta-181



73-Ta-181

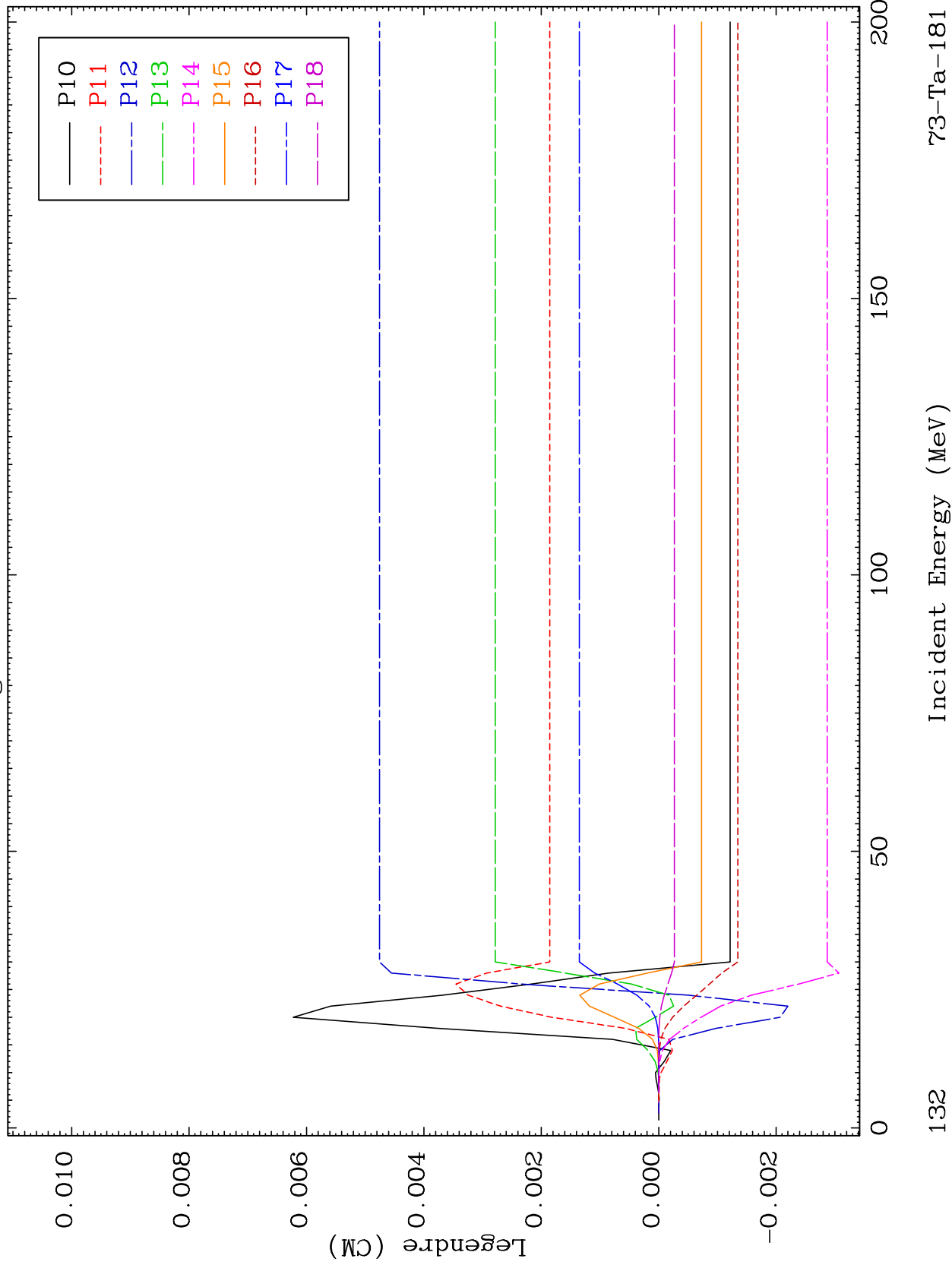
Incident Energy (MeV)

131

MAT 7328

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

73-Ta-181

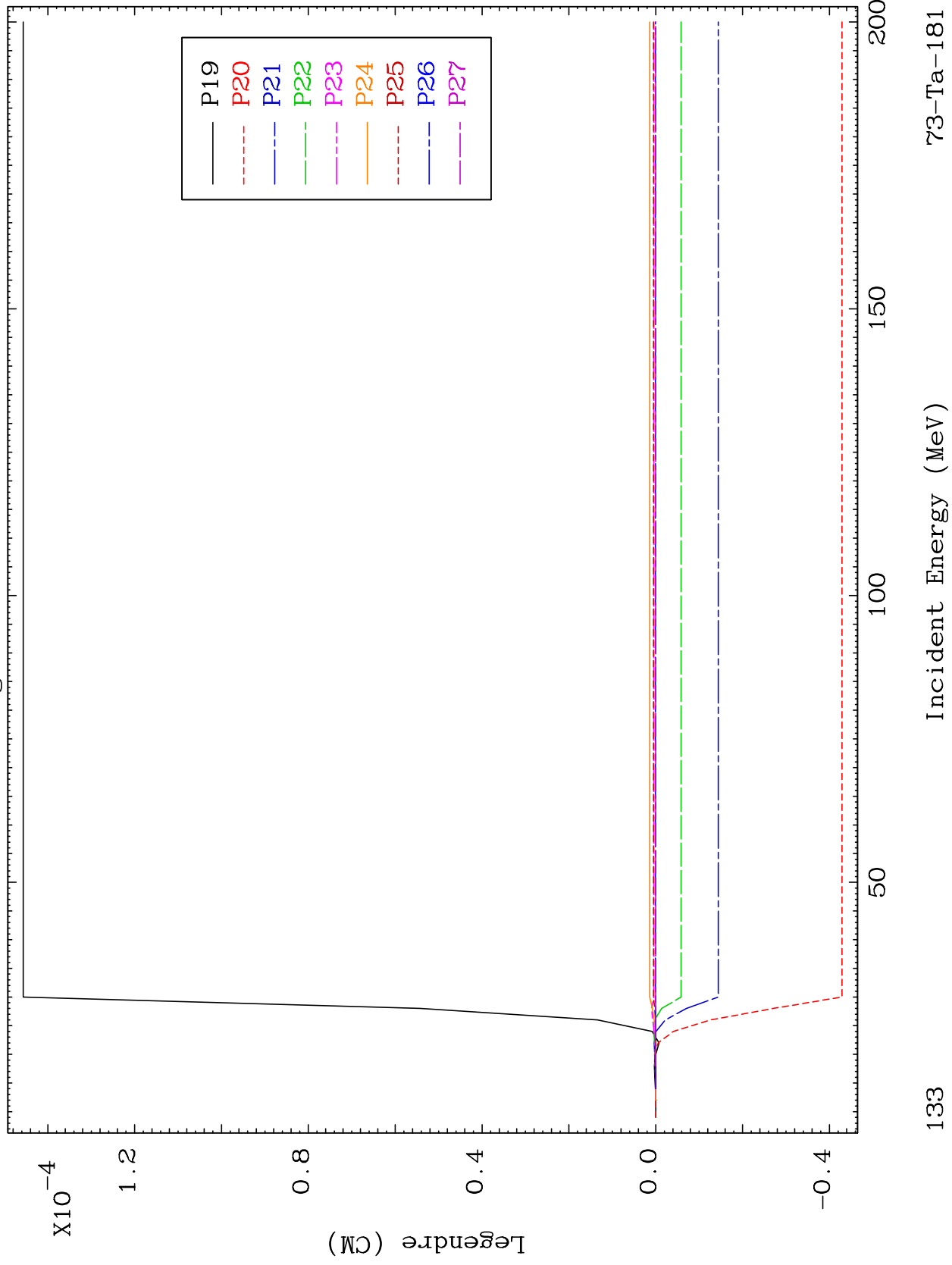


132

MAT 7328

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

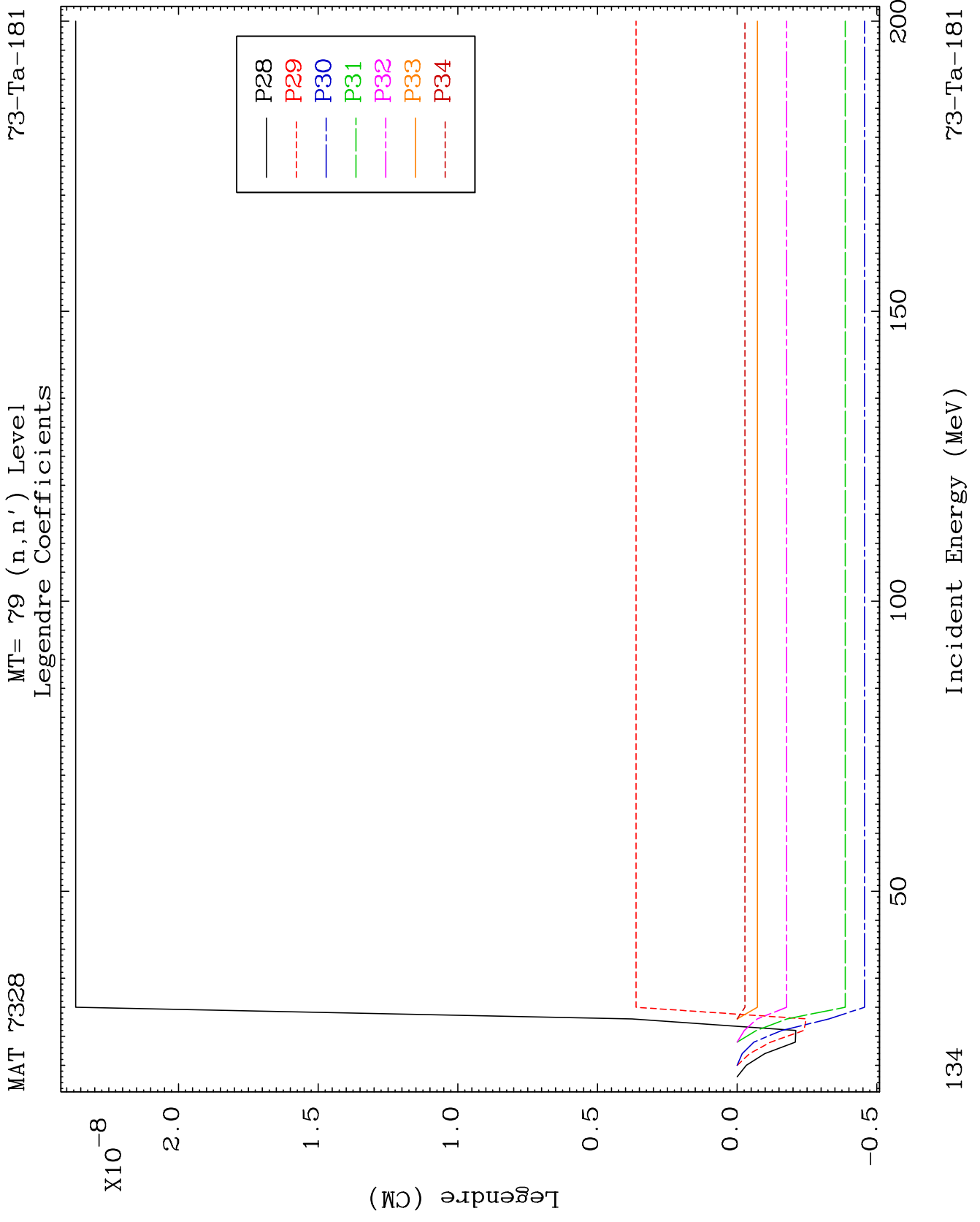
73-Ta-181

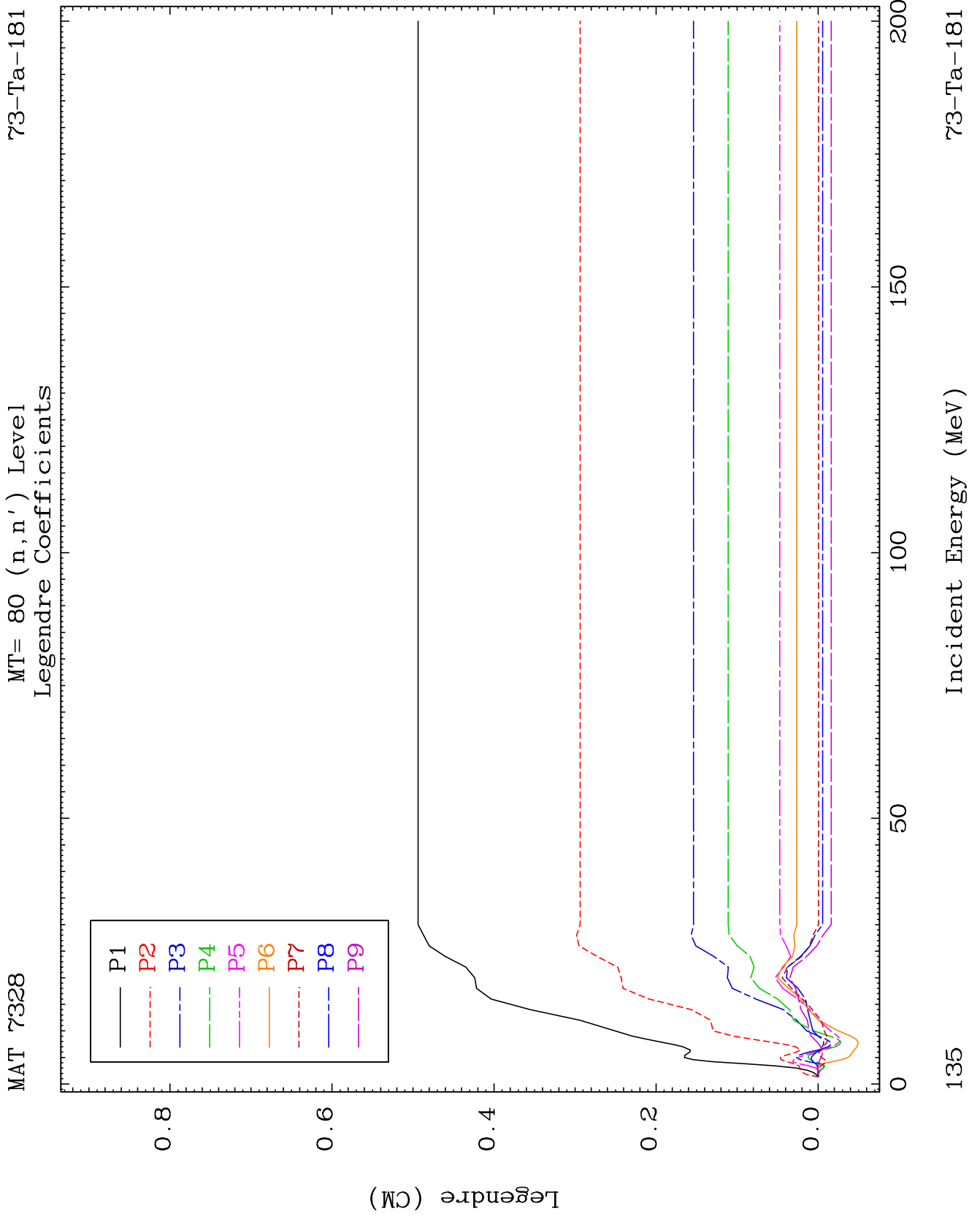


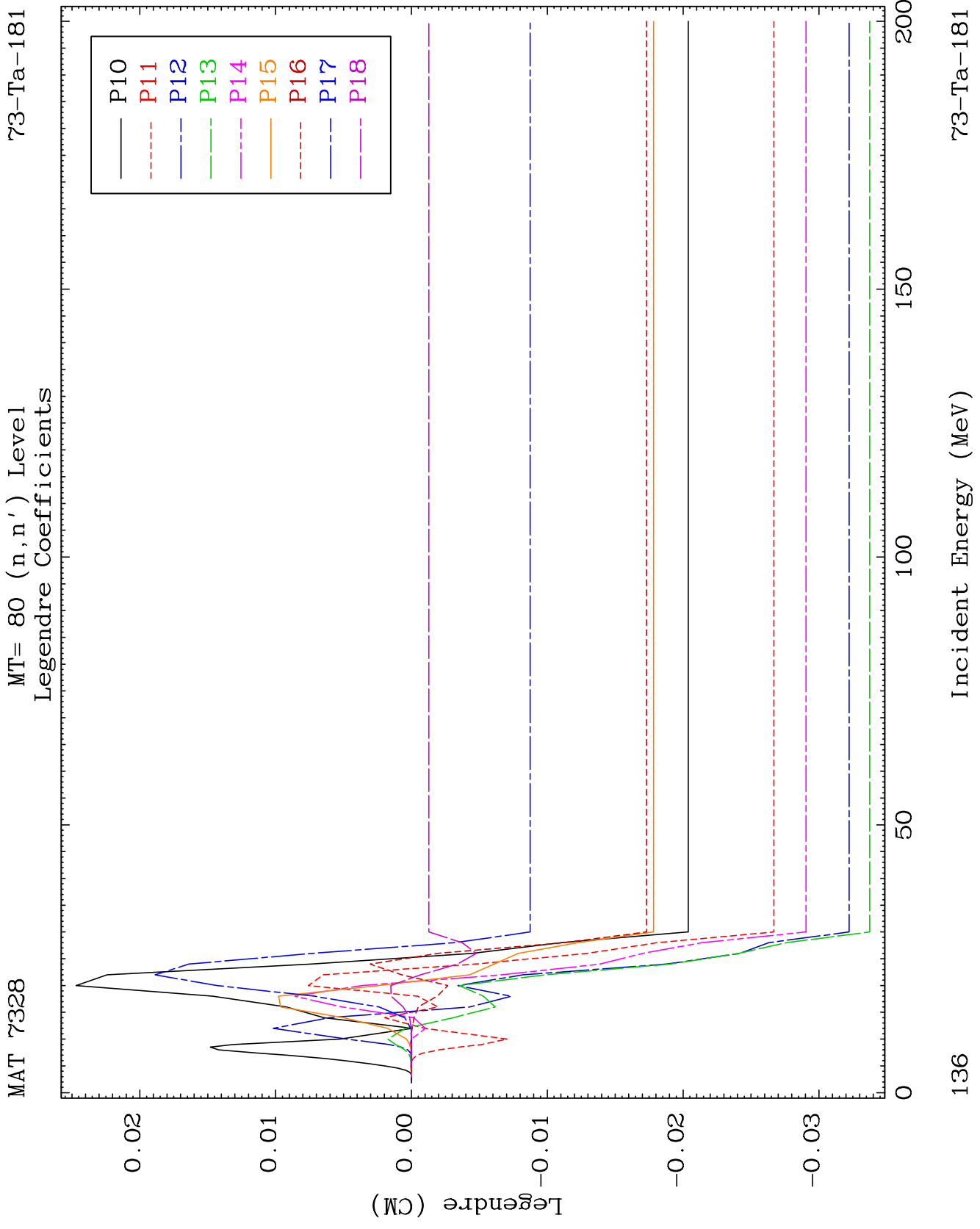
133

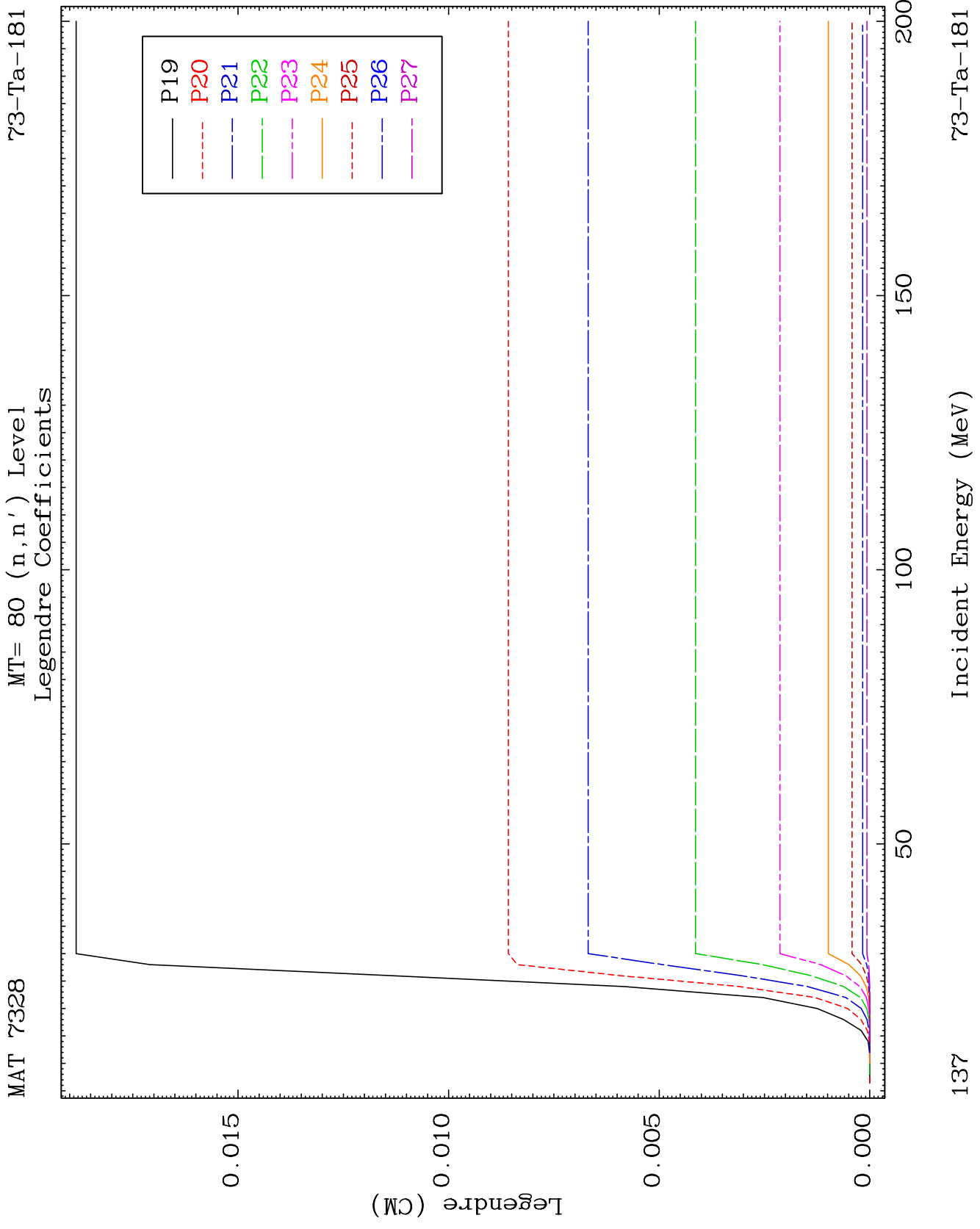
Incident Energy (MeV)

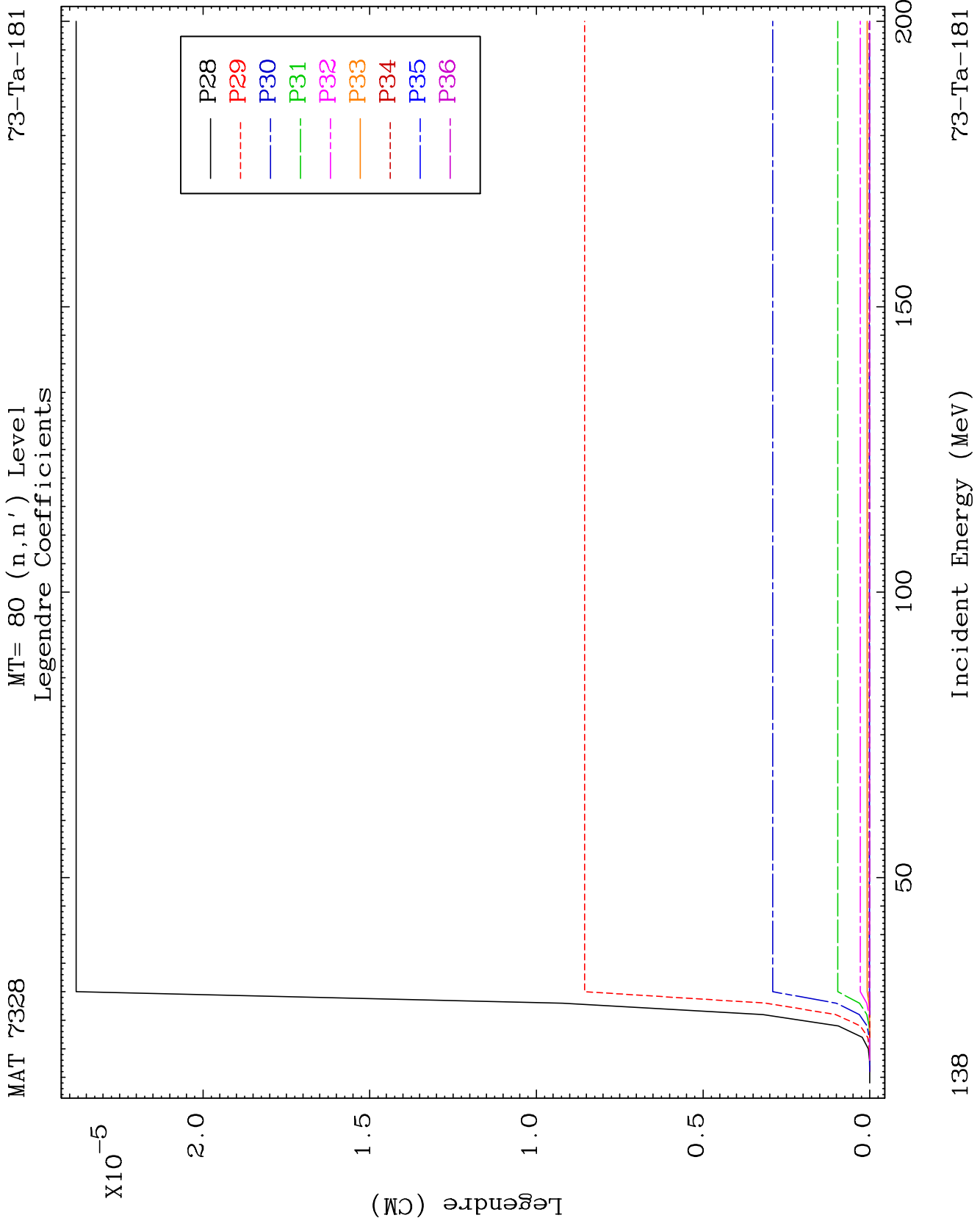
73-Ta-181









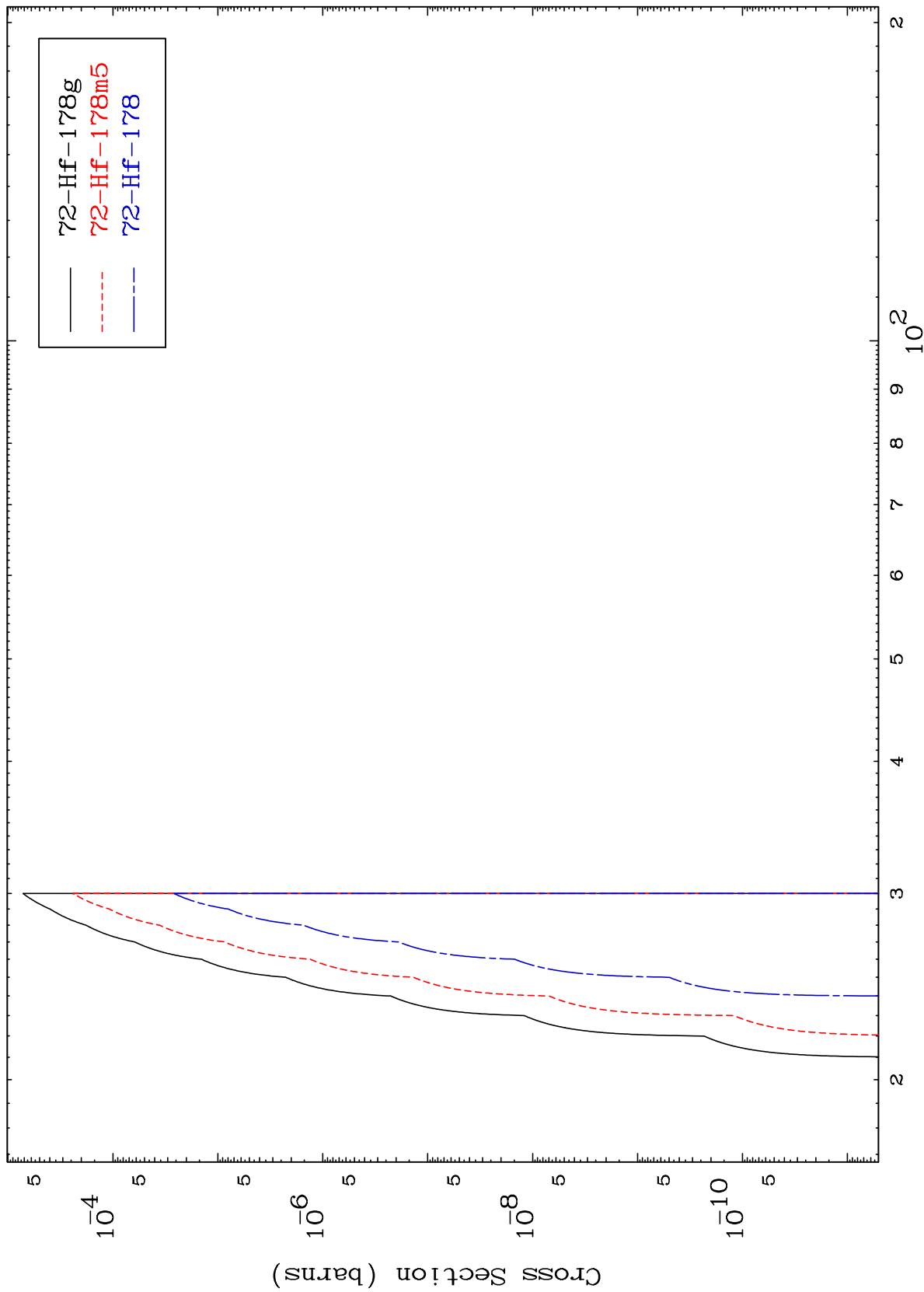


MAT 7328

(n,2n) d

73-Ta-181

Radionuclide Production Cross Section



139

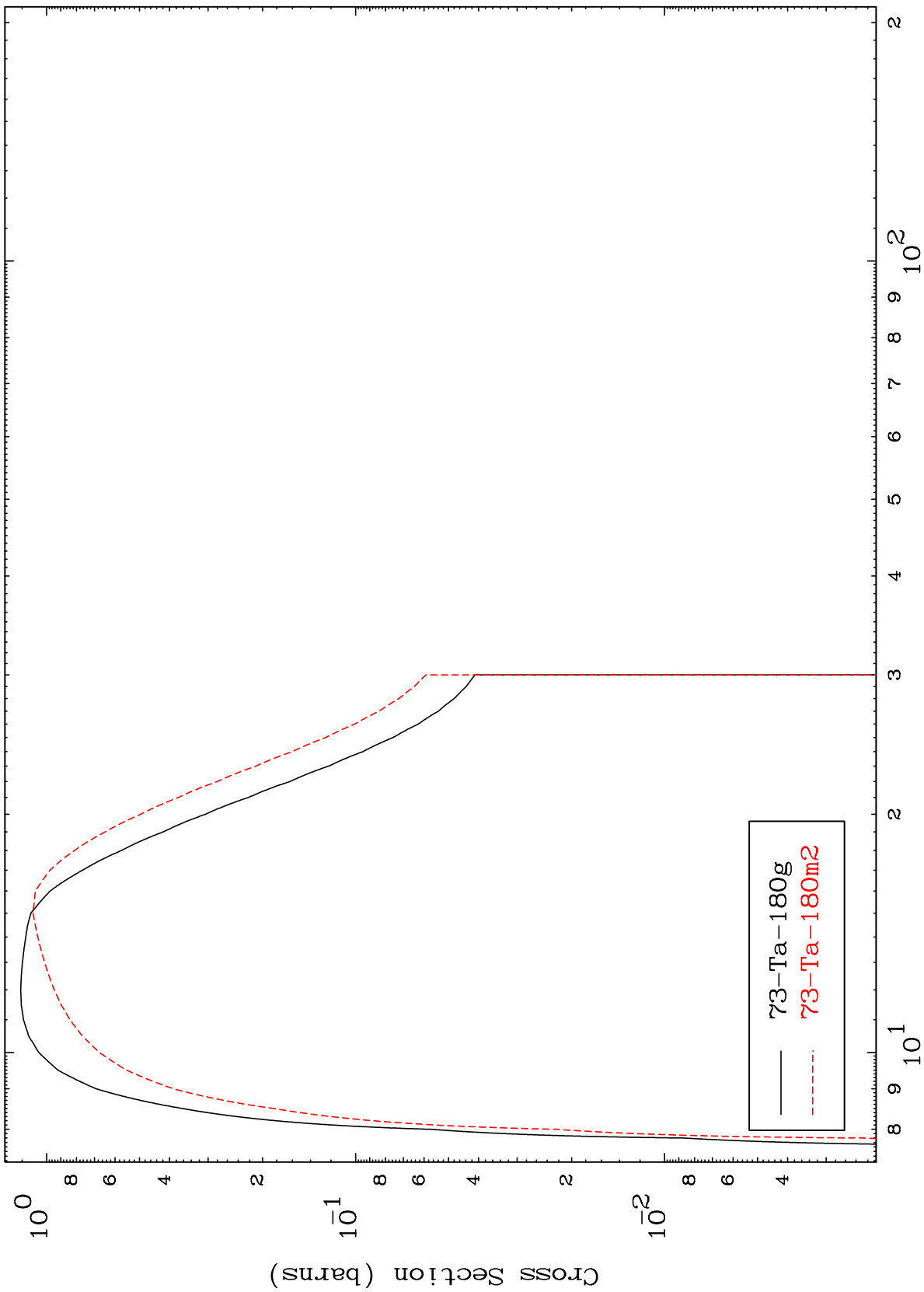
Incident Energy (MeV)

73-Ta-181

MAT 7328

⁷³Ta-181

(n,2n)
Radionuclide Production Cross Section



140

Incident Energy (MeV)

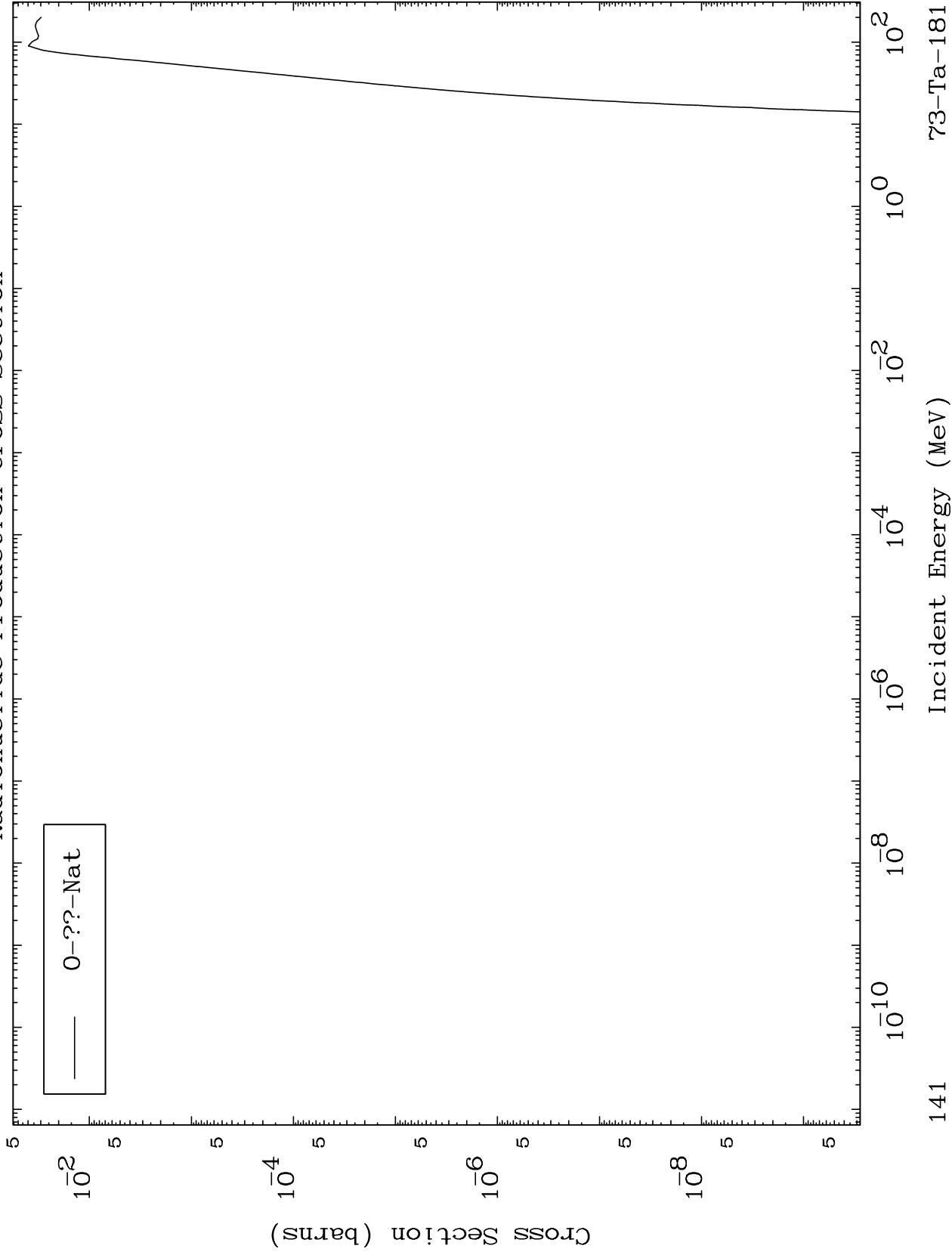
⁷³Ta-181

MAT 7328

Fission

⁷³Ta-181

Radionuclide Production Cross Section



141

Incident Energy (MeV)

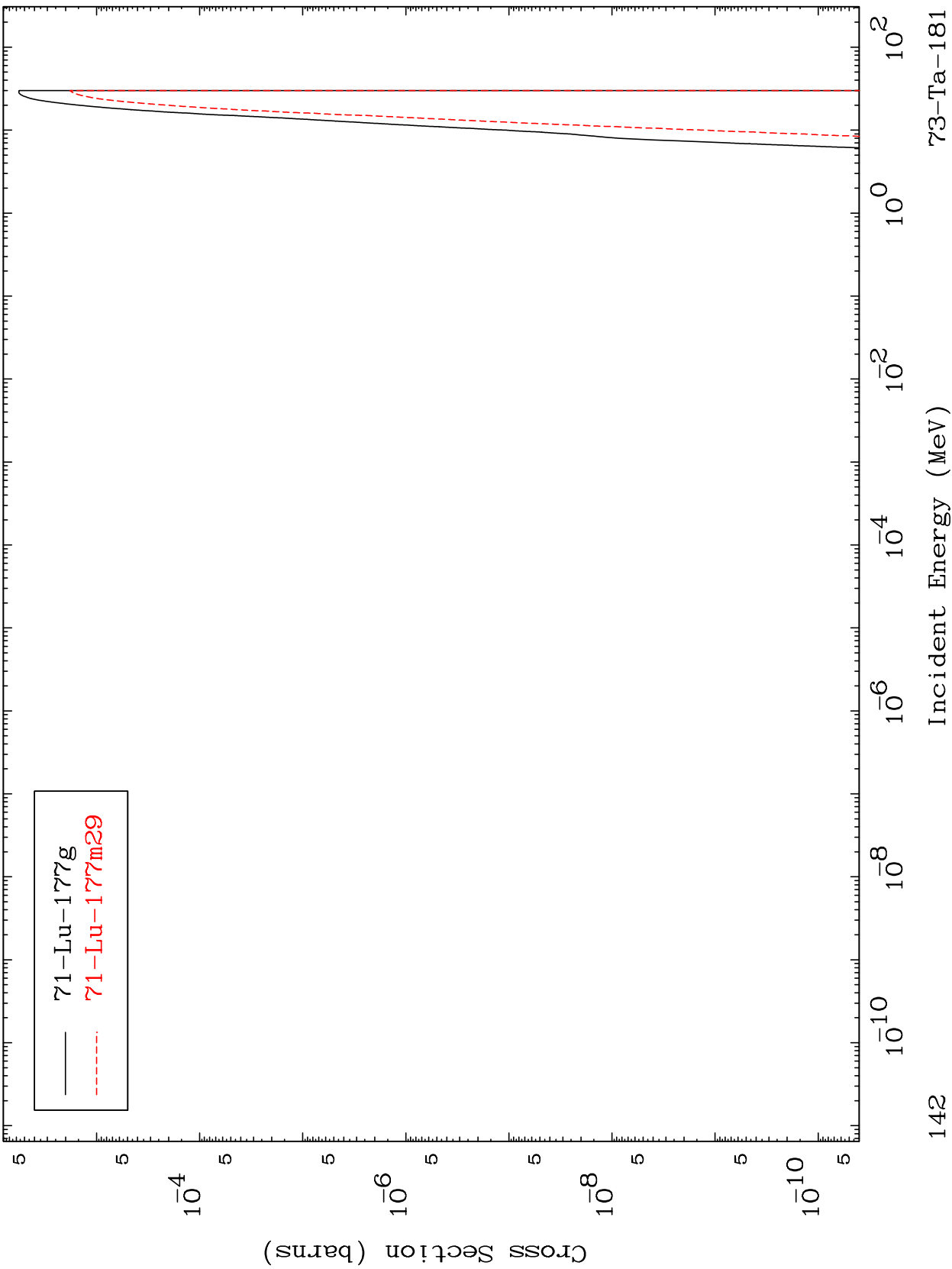
⁷³Ta-181

MAT 7328

$(n, n') \alpha$

$^{73}\text{Ta-181}$

Radionuclide Production Cross Section

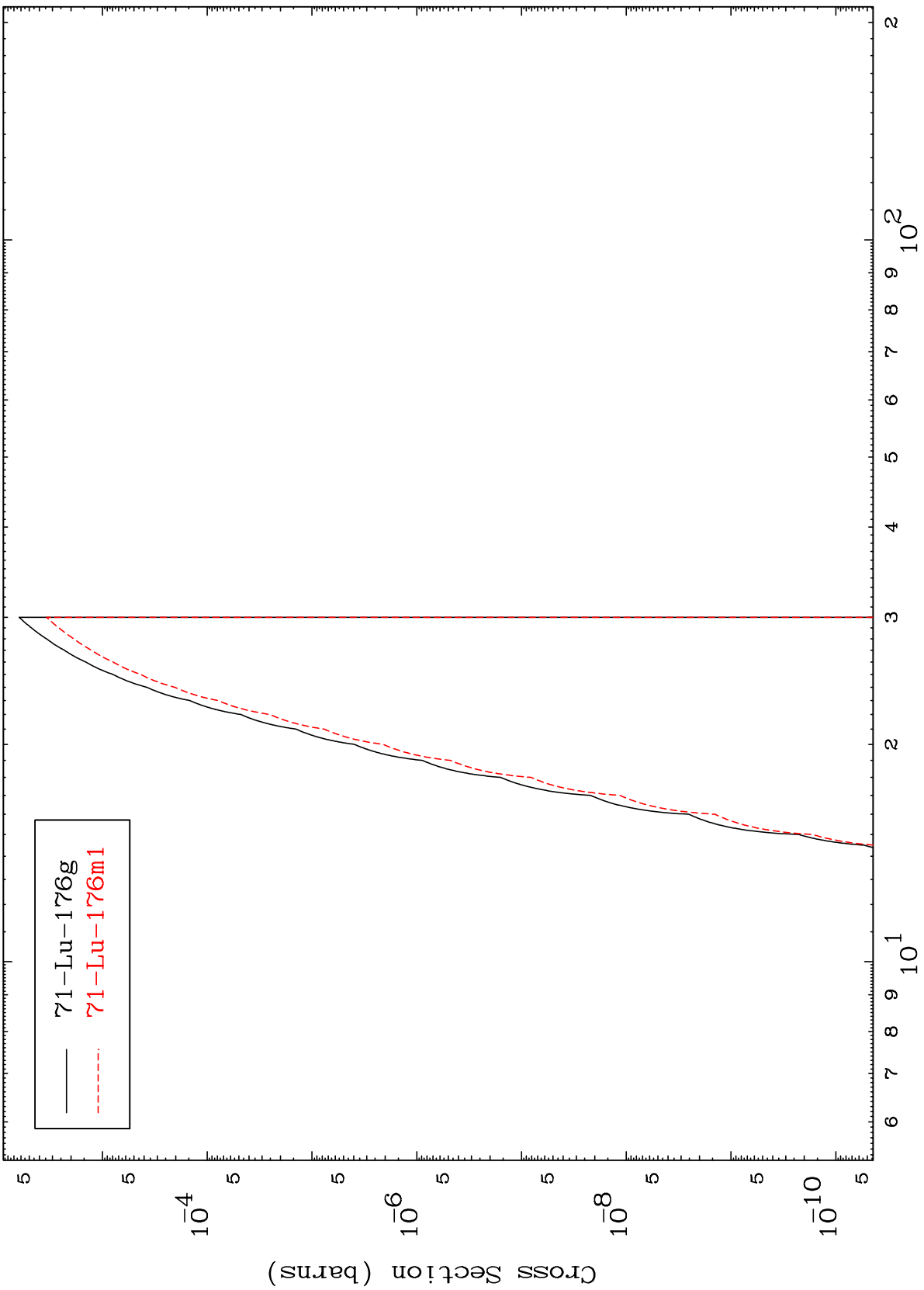


MAT 7328

$(n,2n) \alpha$

$^{73}\text{Ta-181}$

Radionuclide Production Cross Section



143

Incident Energy (MeV)

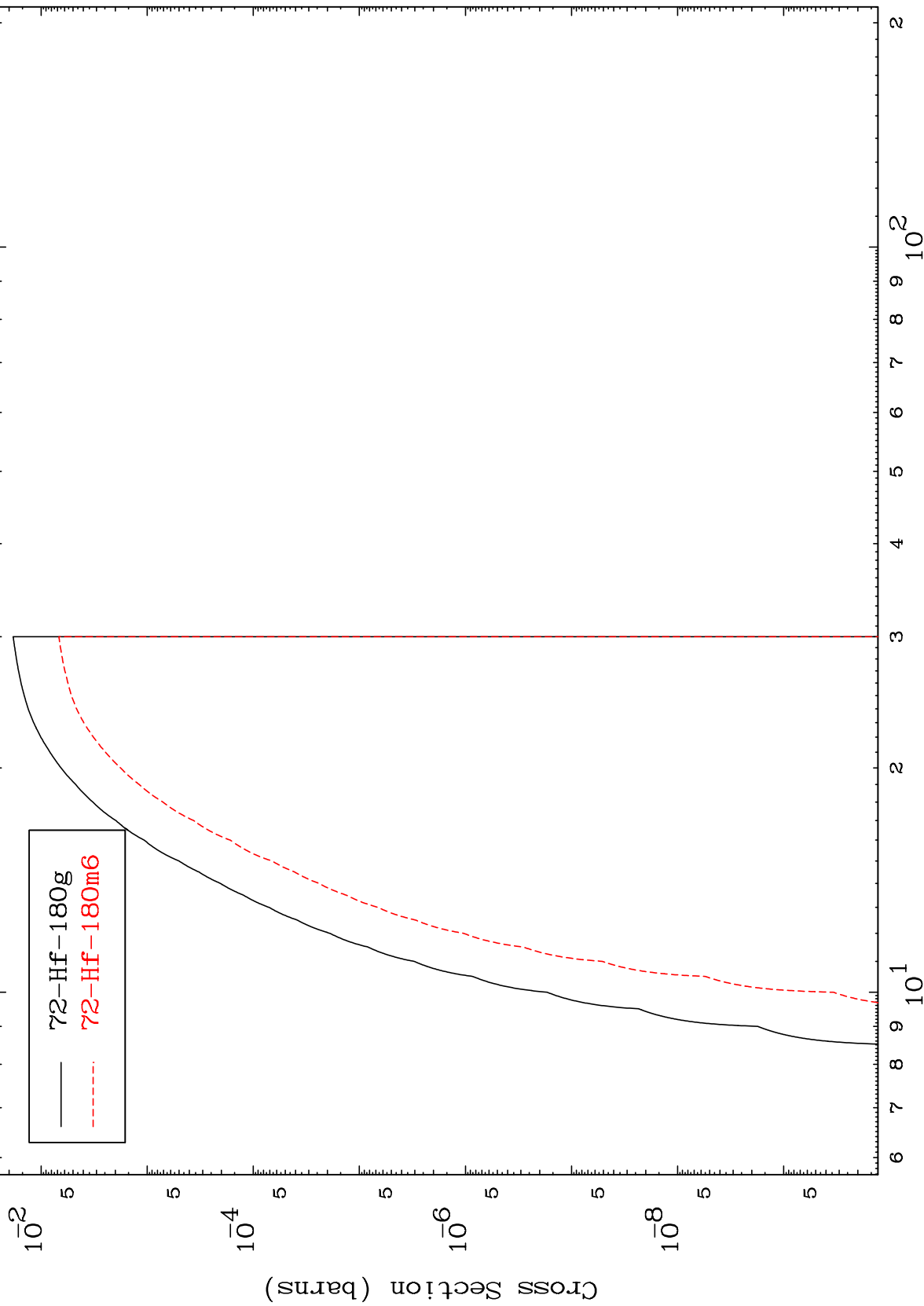
$^{73}\text{Ta-181}$

MAT 7328

(n,n') p

⁷³Ta-181

Radionuclide Production Cross Section



72-Hf-180g
72-Hf-180m6

144

Incident Energy (MeV)

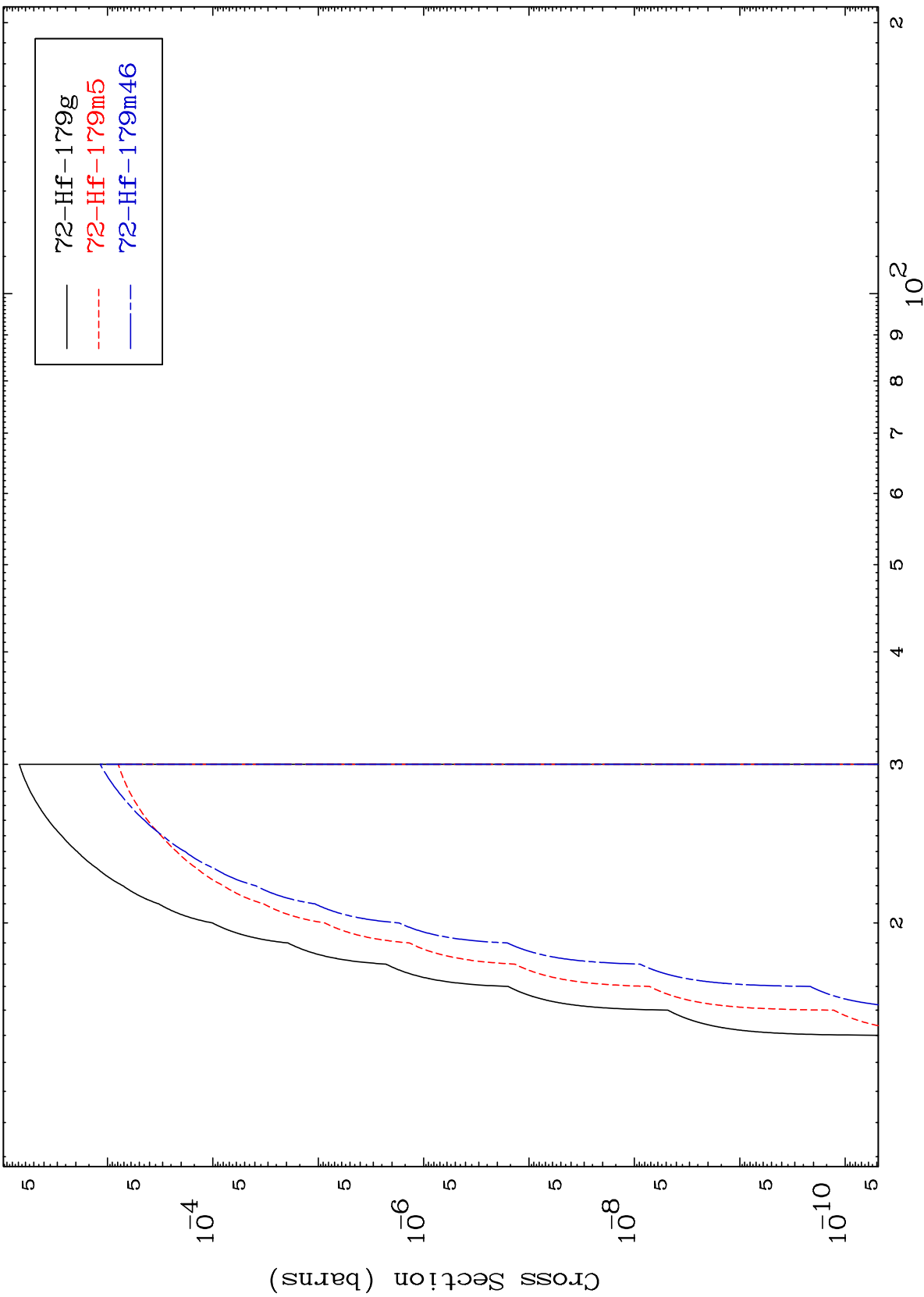
⁷³Ta-181

MAT 7328

(n,n') d

73-Ta-181

Radionuclide Production Cross Section



145

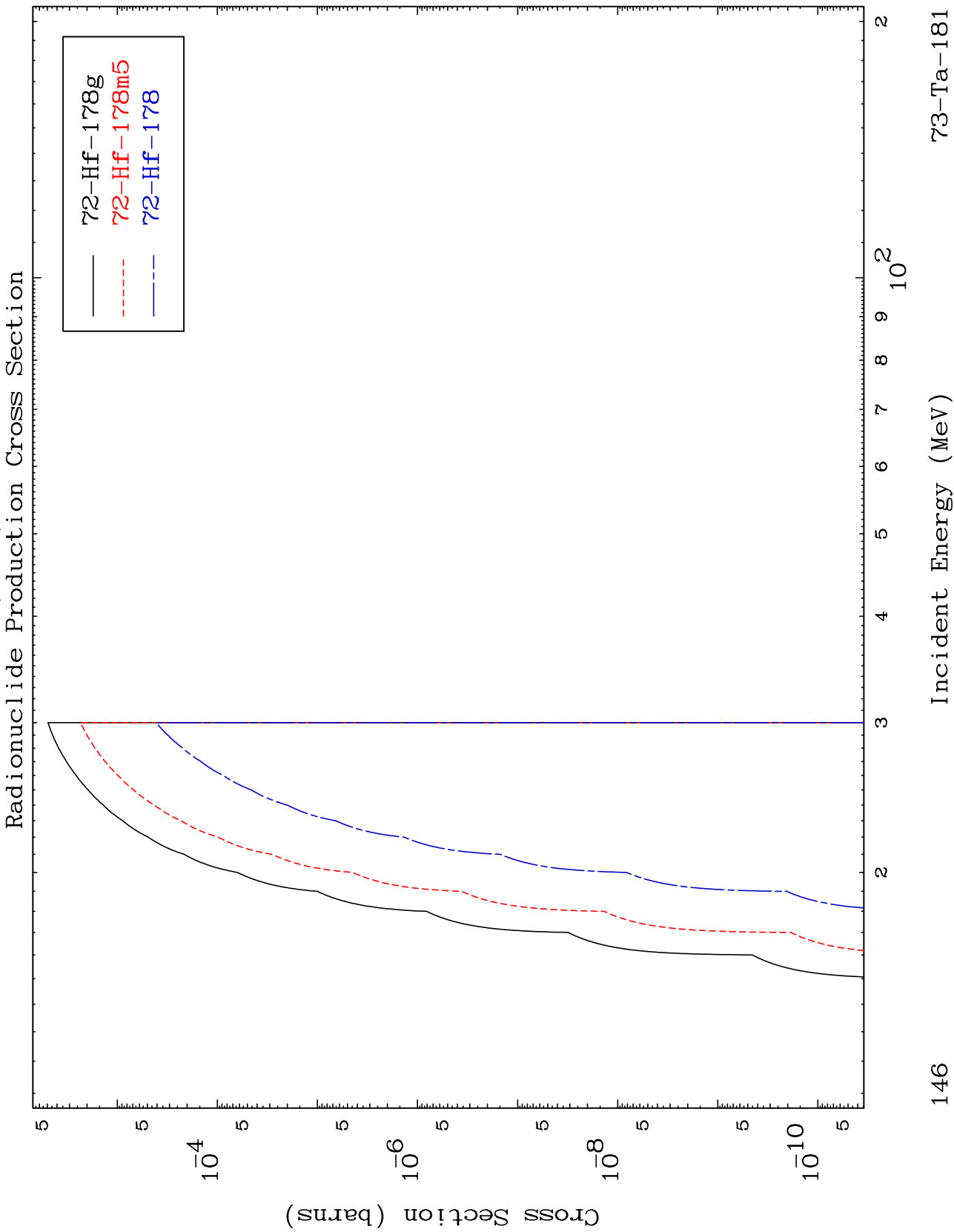
Incident Energy (MeV)

73-Ta-181

MAT 7328

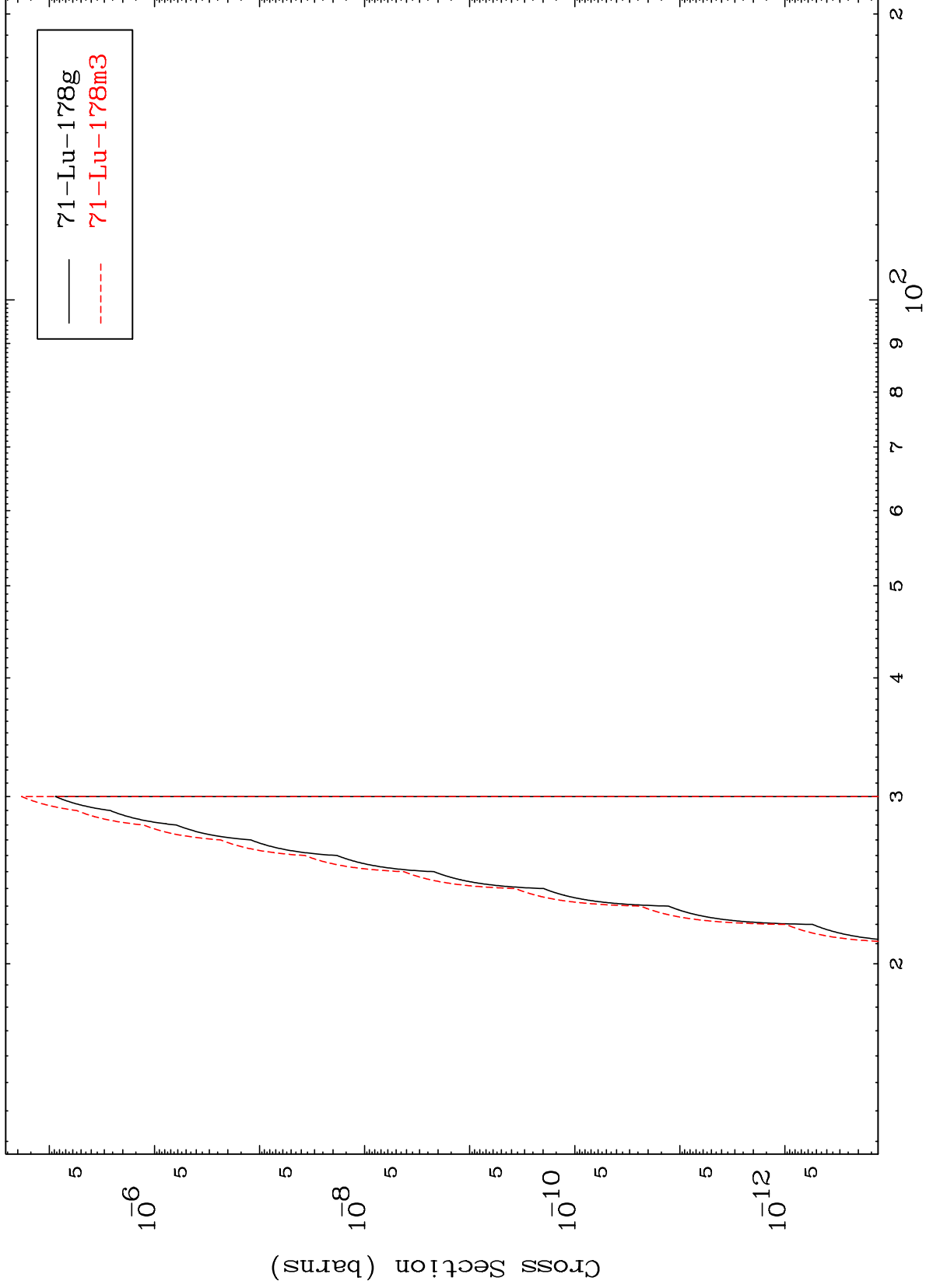
(n,n') t

73-Ta-181



146

Radionuclide Production Cross Section

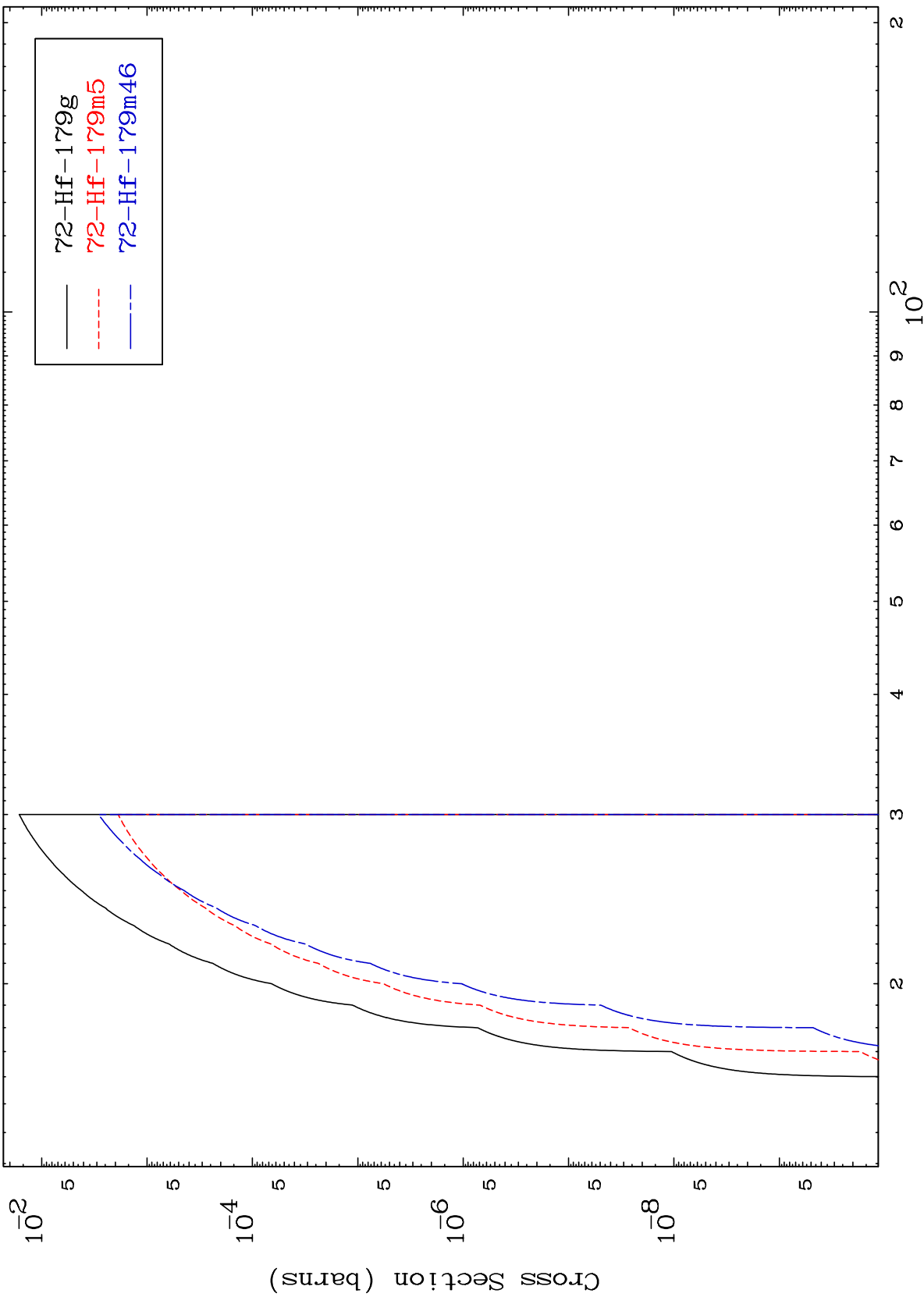


MAT 7328

(n,2n) p

73-Ta-181

Radionuclide Production Cross Section



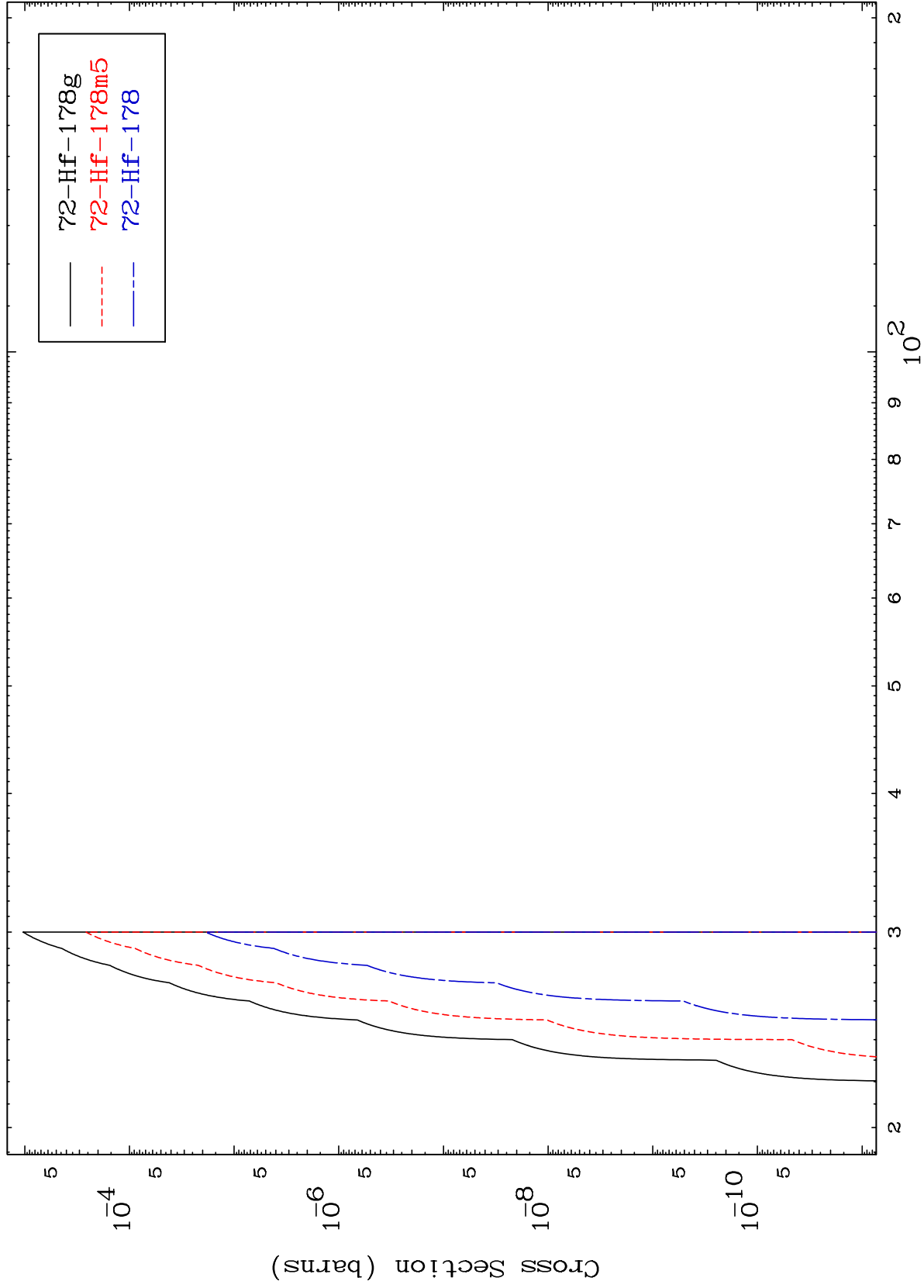
72-Hf-179g
72-Hf-179m5
72-Hf-179m46

148

Incident Energy (MeV)

73-Ta-181

(n,3n) p
Radionuclide Production Cross Section

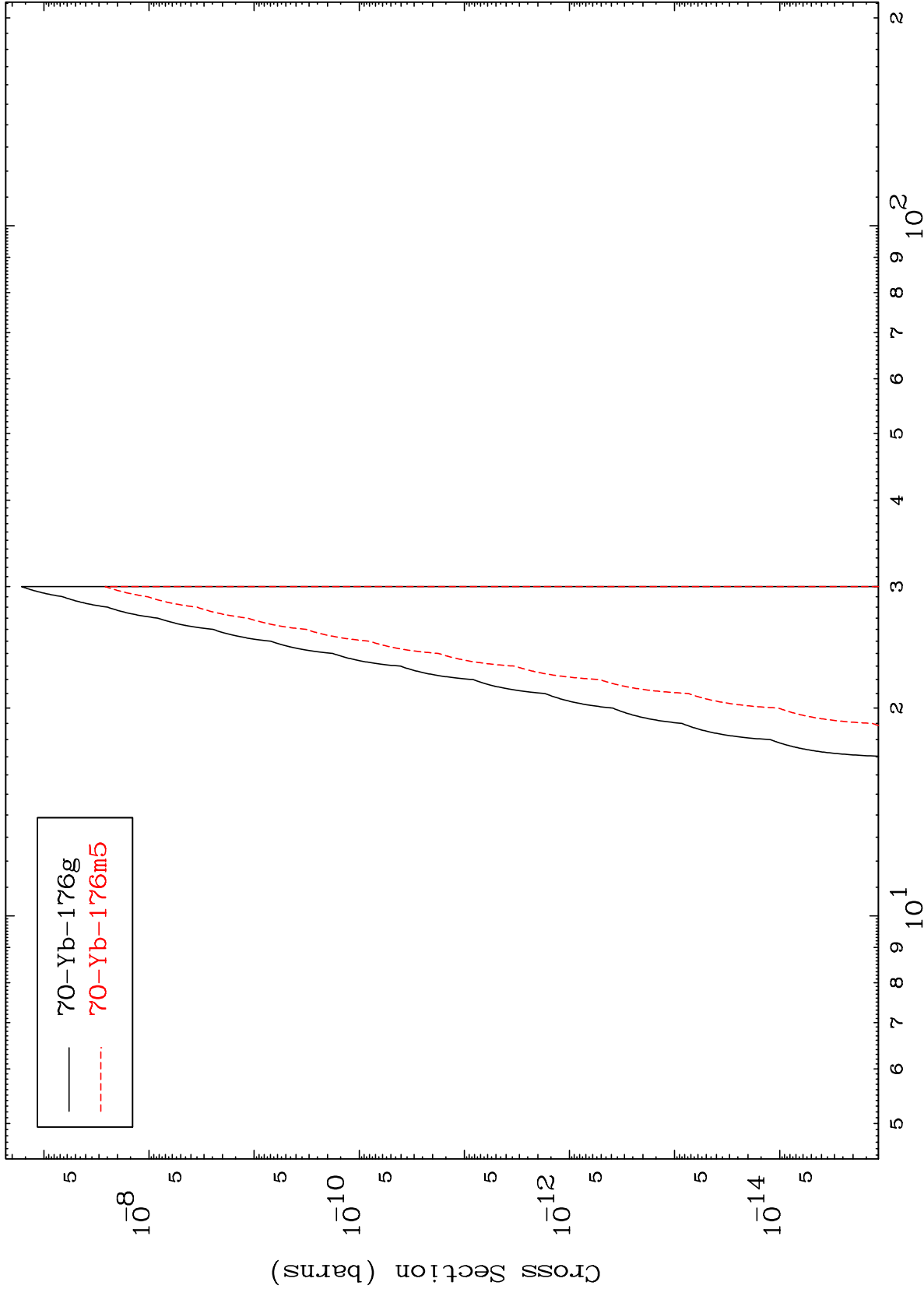


MAT 7328

73-Ta-181

(n,n') p α

Radionuclide Production Cross Section



150

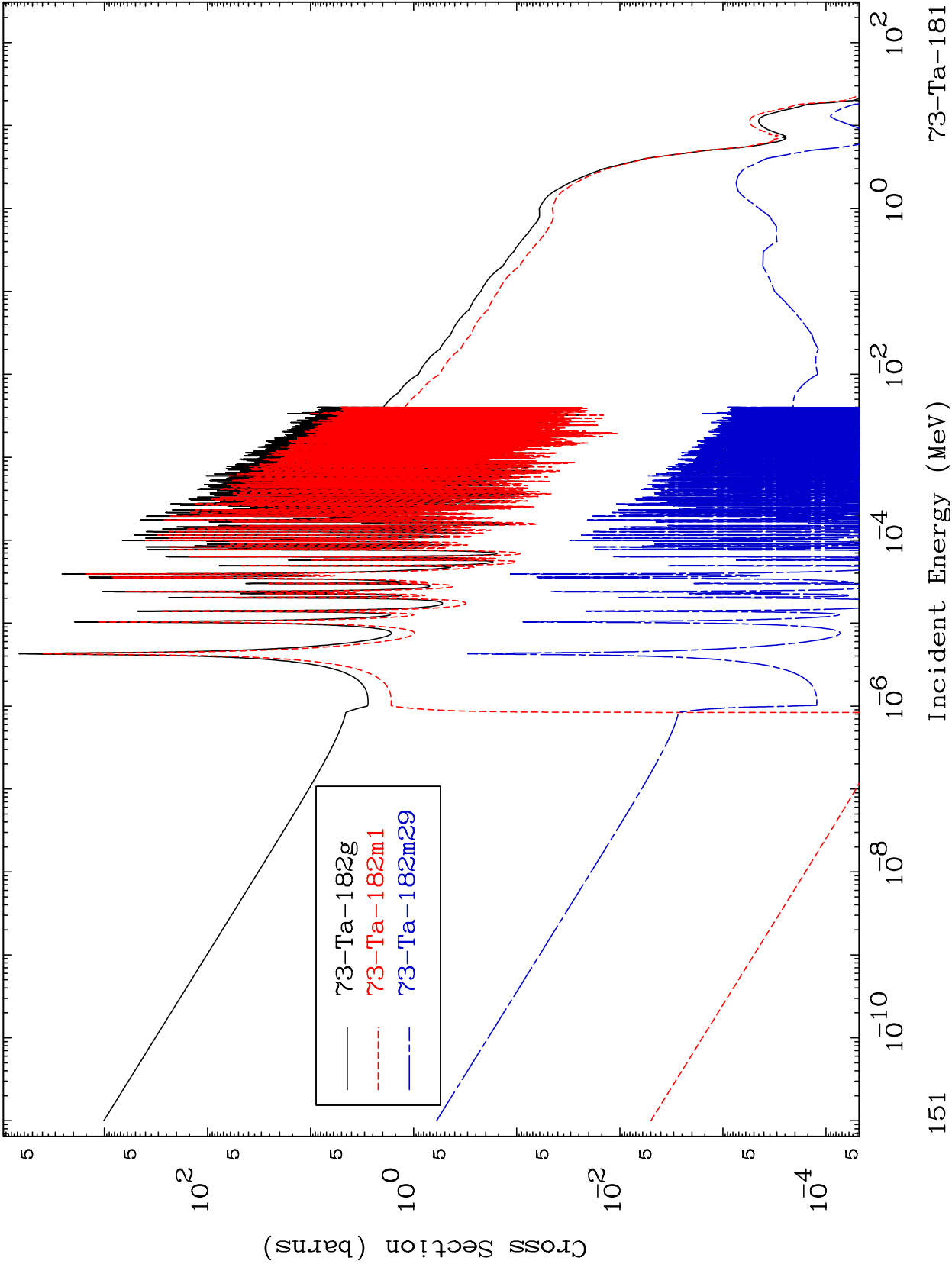
Incident Energy (MeV)

73-Ta-181

MAT 7328

⁷³Ta-181

Radionuclide Production Cross Section (n,γ)

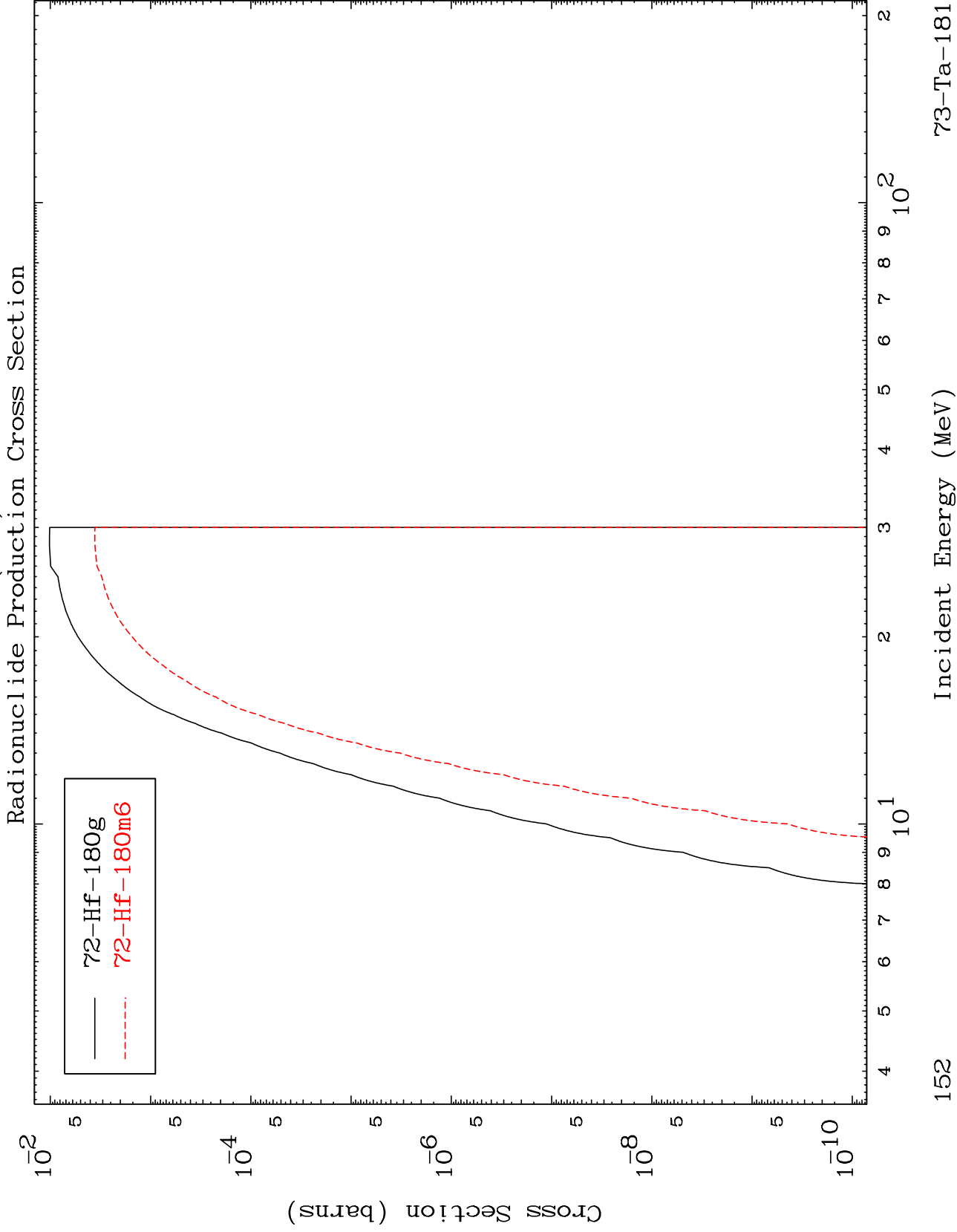


151

⁷³Ta-181

MAT 7328

⁷³Ta-181

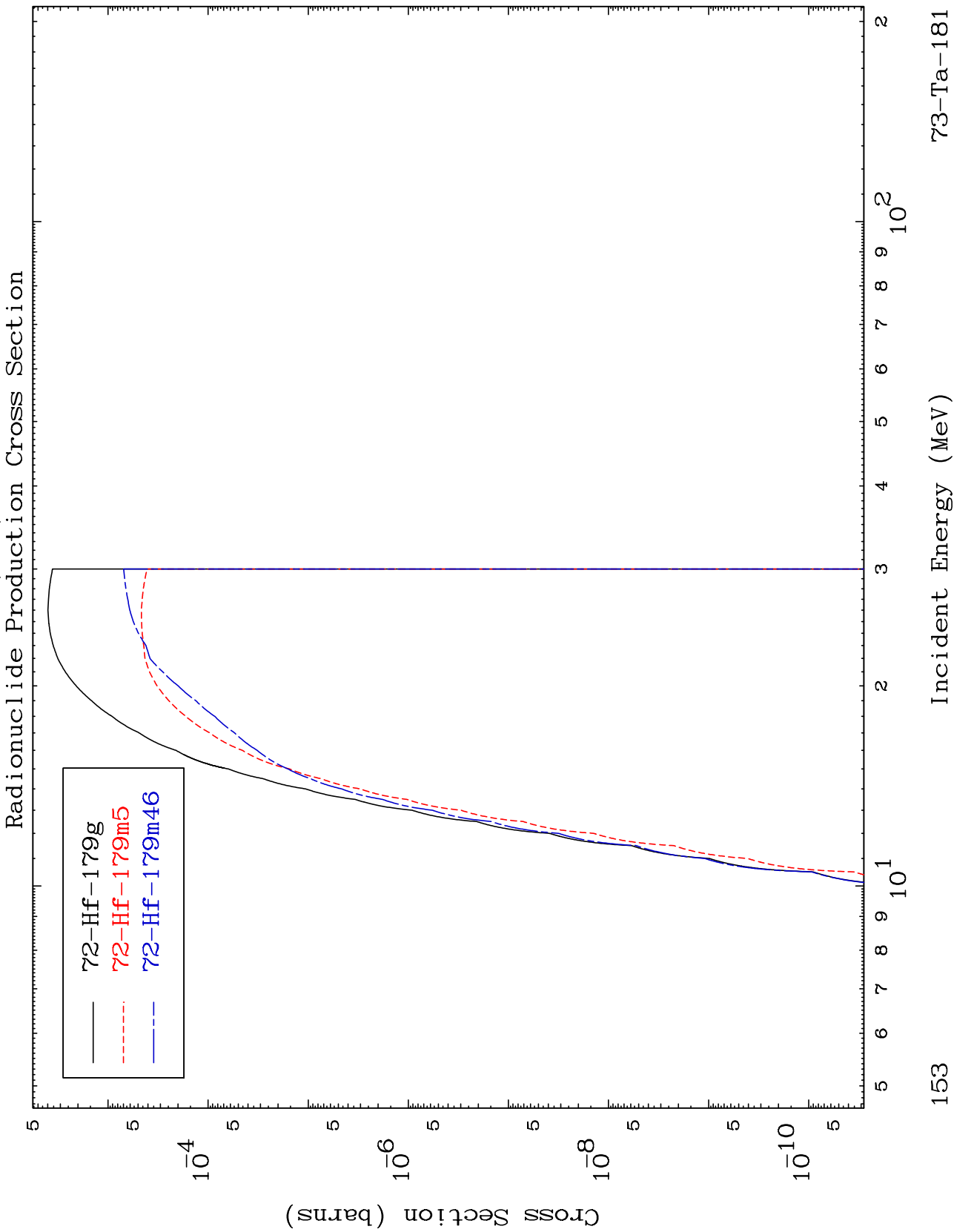


— ⁷²Hf-180g
- - - ⁷²Hf-180m6

152

MAT 7328

⁷³Ta-181



Legend:
— ⁷²Hf-179g
- - ⁷²Hf-179m5
- - ⁷²Hf-179m46

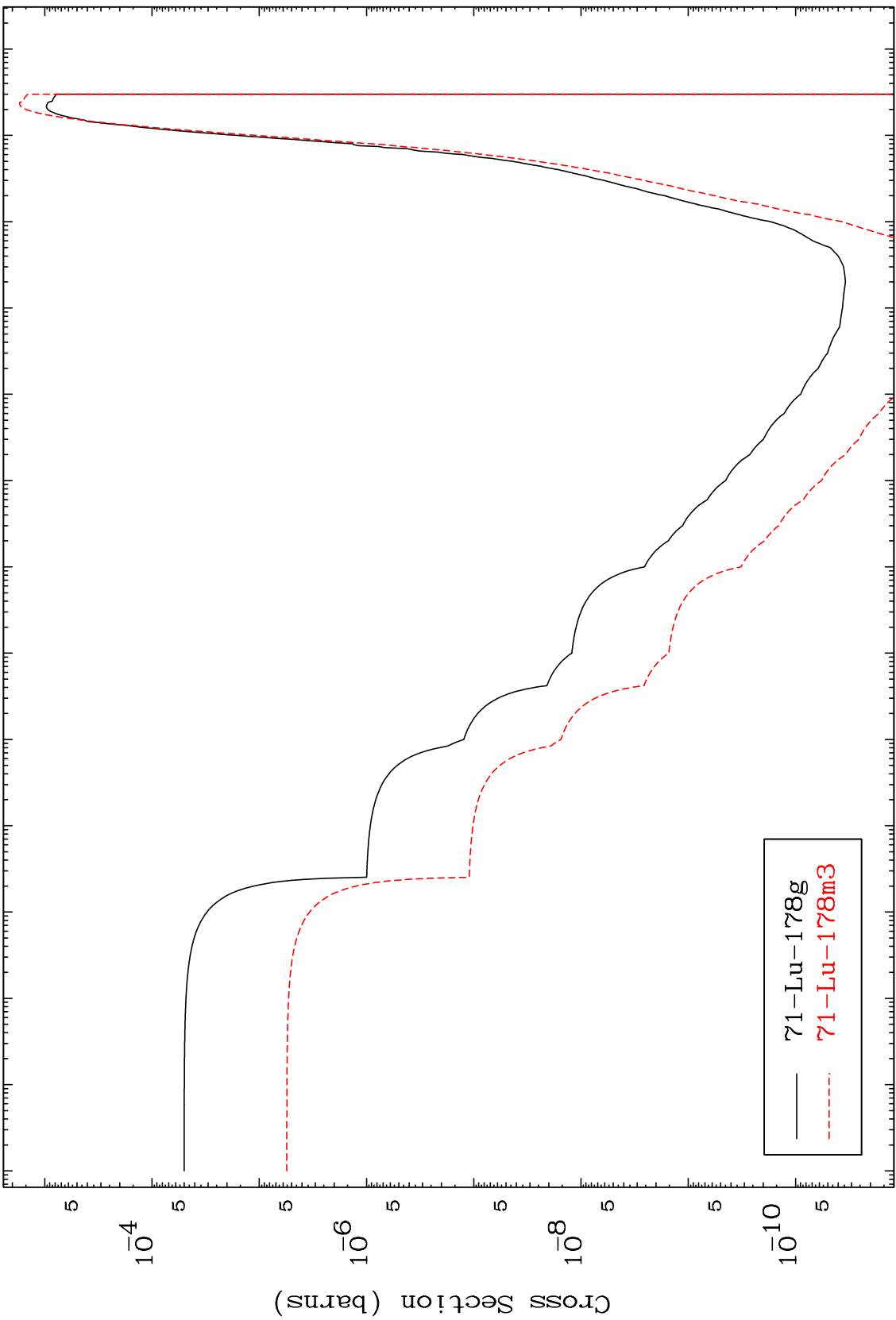
153

⁷³Ta-181

MAT 7328

73-Ta-181

Radionuclide Production Cross Section



73-Ta-181

73-Ta-181

73-Ta-181

73-Ta-181

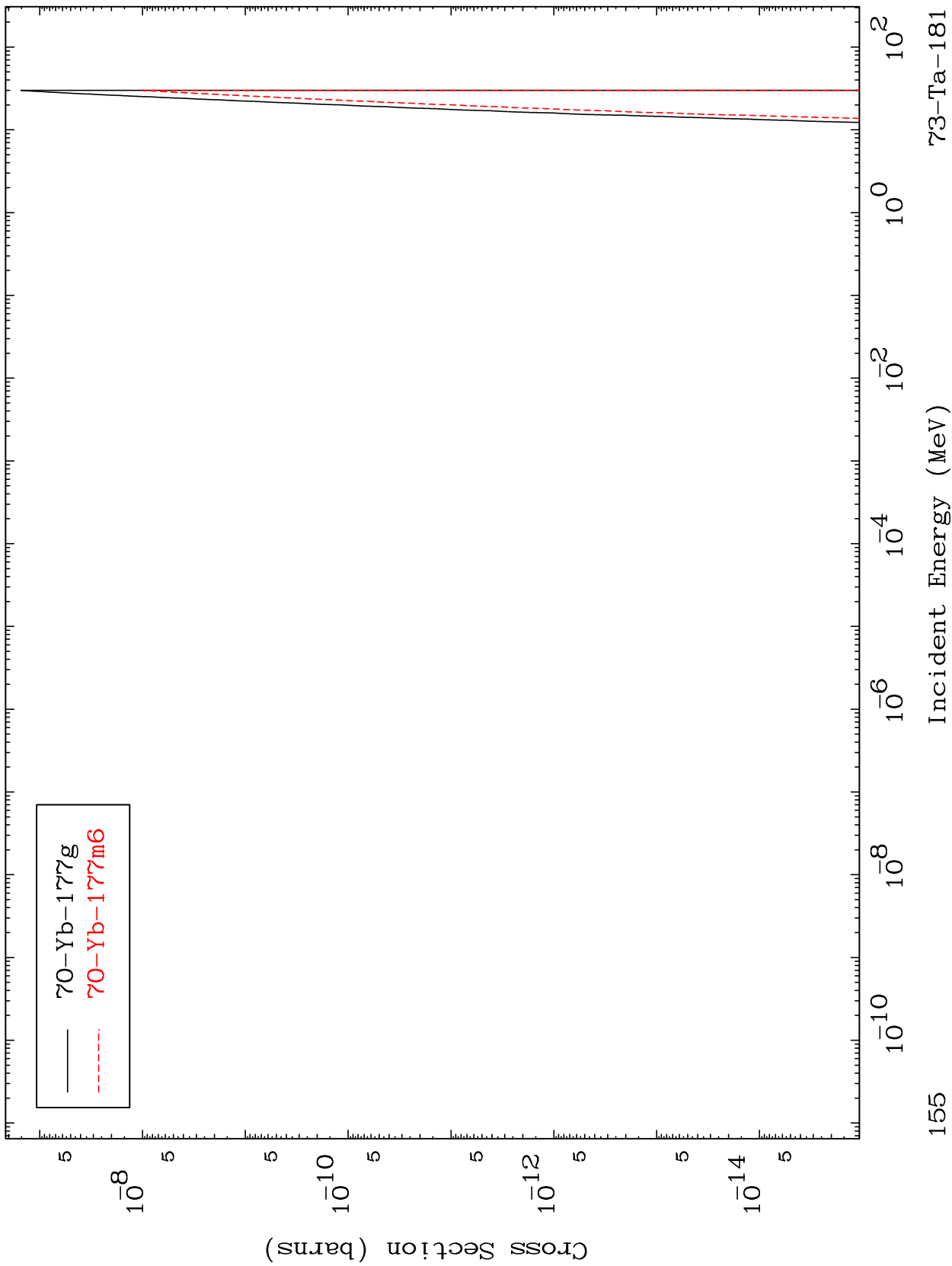
73-Ta-181

MAT 7328

$(n,p) \alpha$

$^{73}\text{Ta-181}$

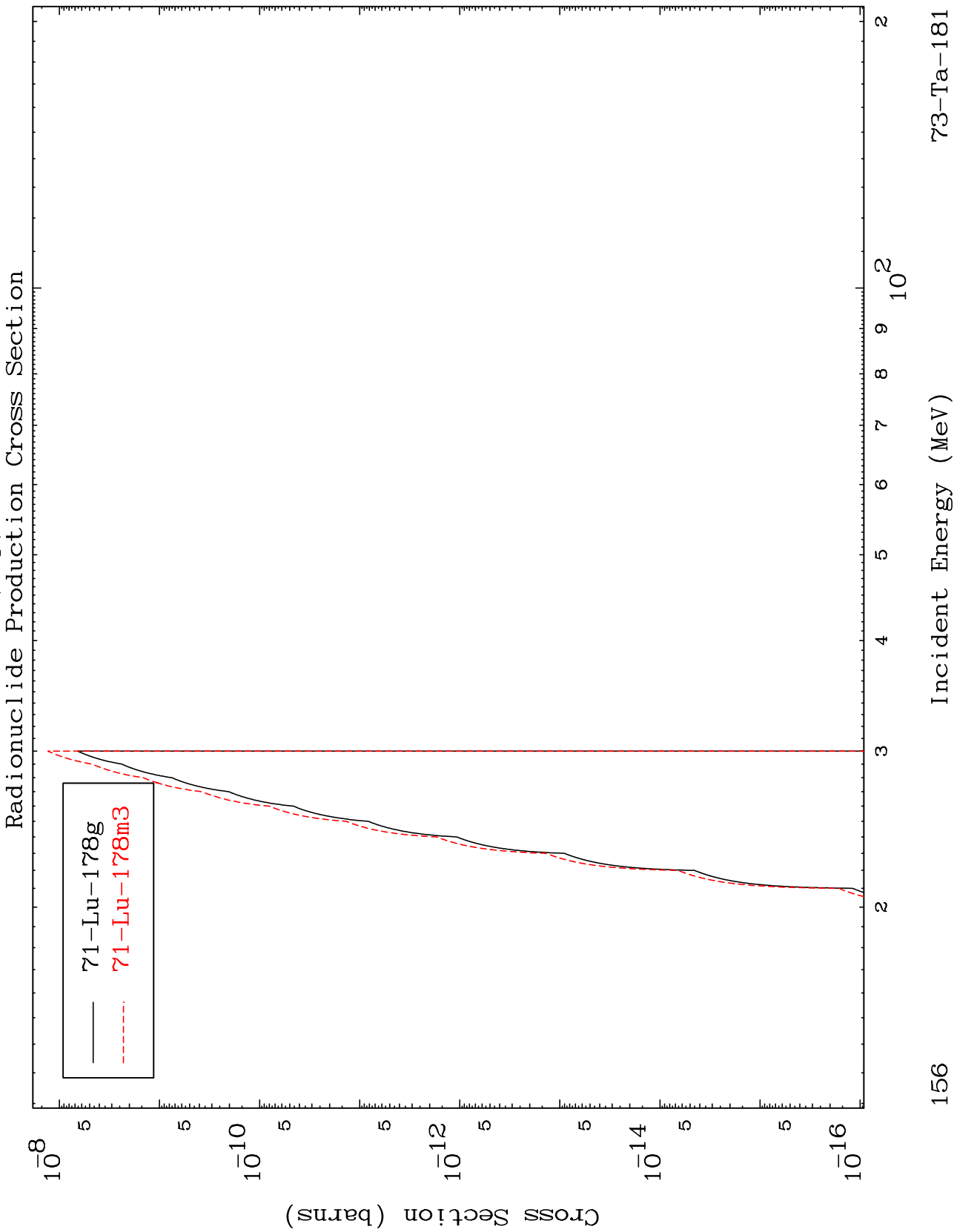
Radionuclide Production Cross Section



155

Incident Energy (MeV)

$^{73}\text{Ta-181}$

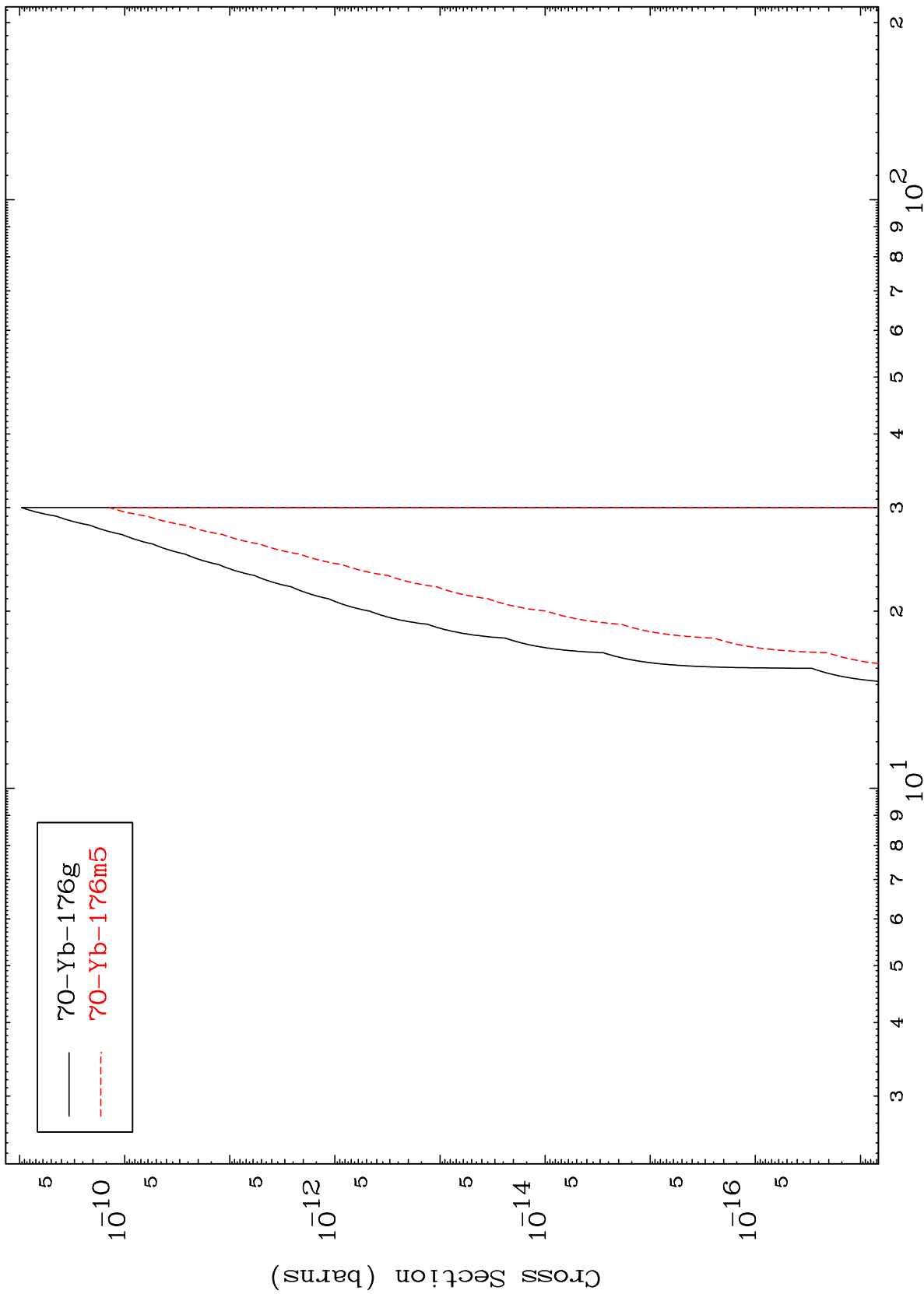


MAT 7328

(n,d) α

⁷³Ta-181

Radionuclide Production Cross Section



157

Incident Energy (MeV)

⁷³Ta-181