

Program EVALPLOT  
(Version 2017-1)

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

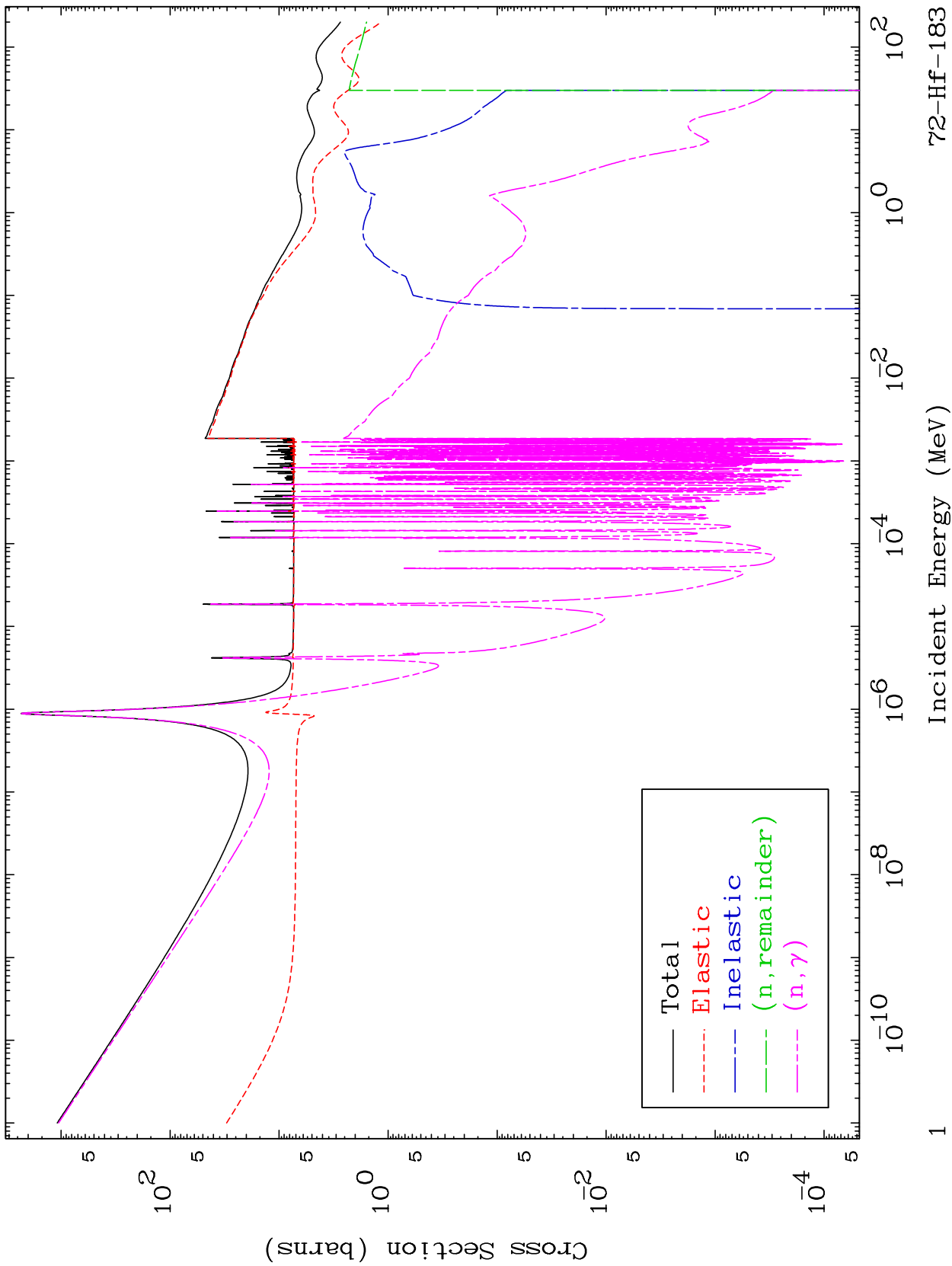
Press Mouse Button to Start

MAT 7252

Major

293 Kelvin Cross Sections

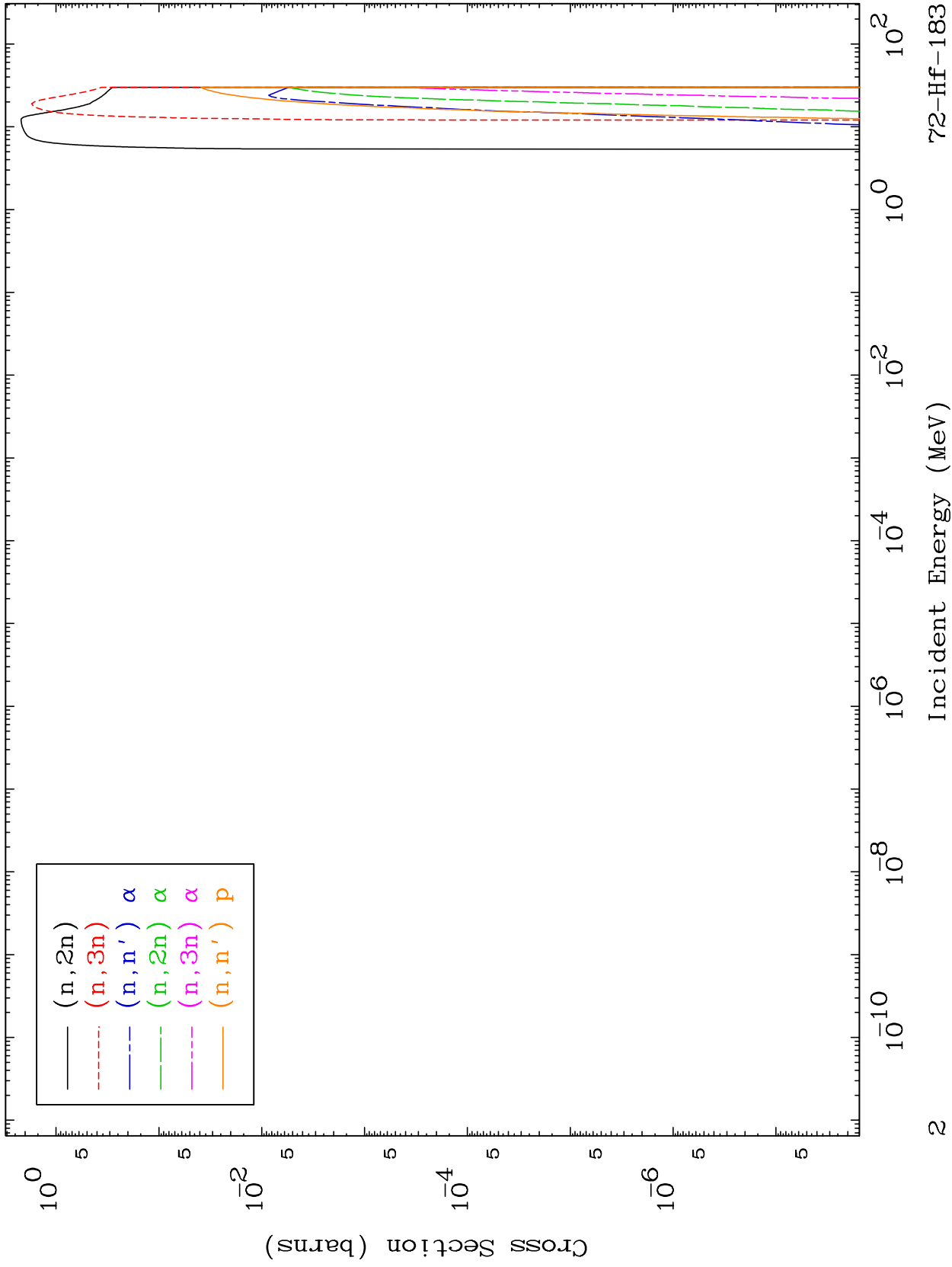
72-Hf-183

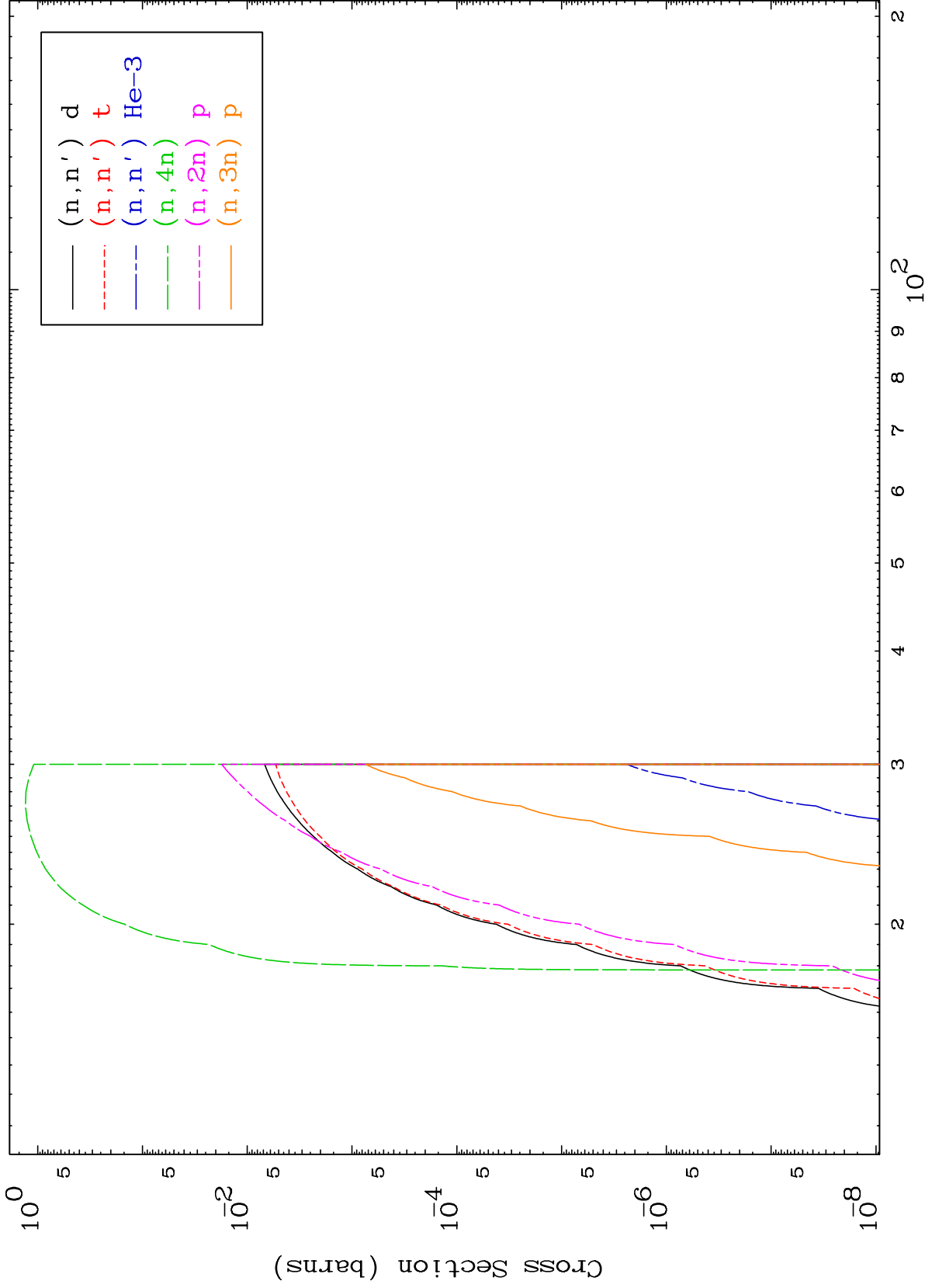


MAT 7252

Neutron Production  
293 Kelvin Cross Sections

72-Hf-183

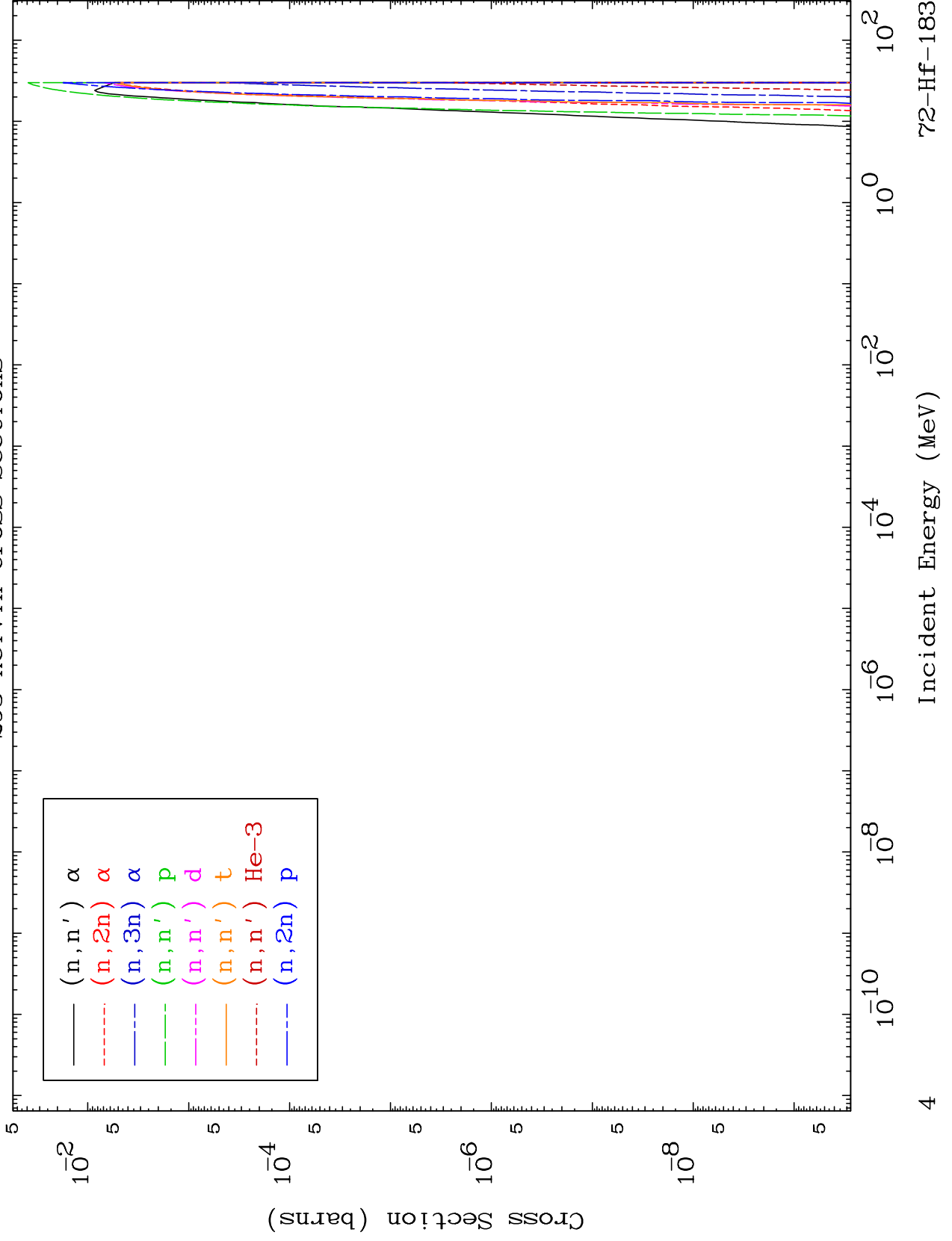


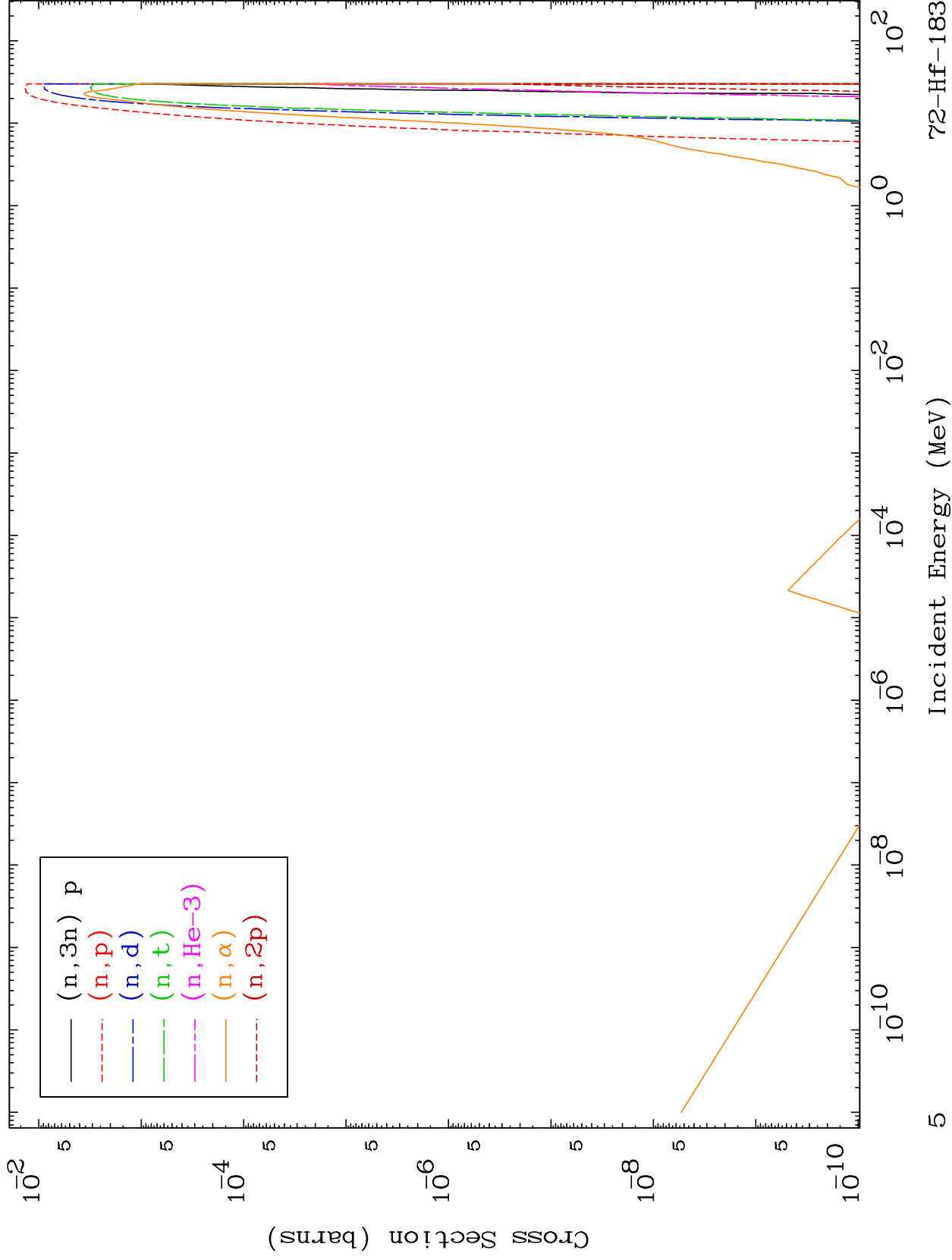


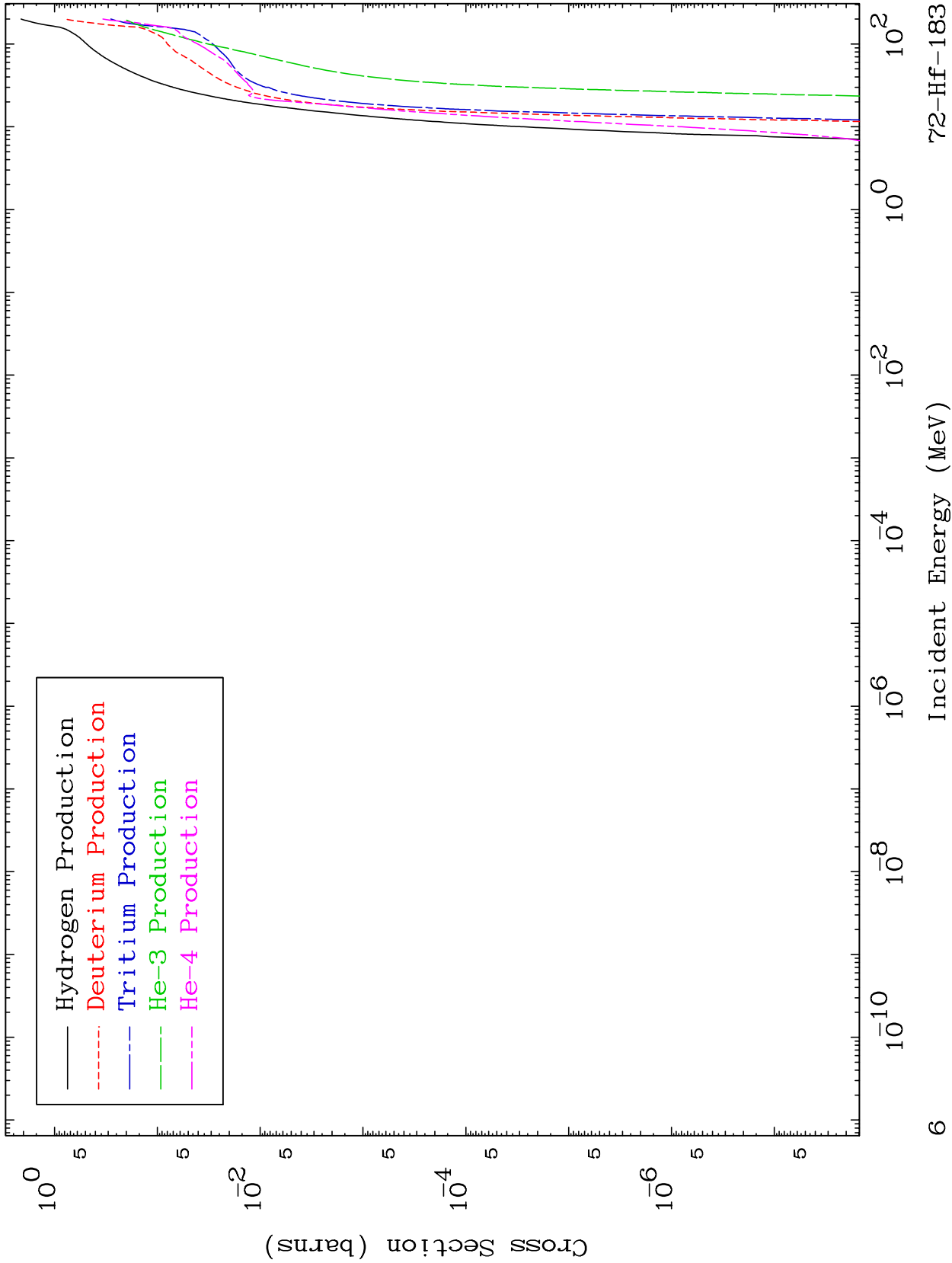
MAT 7252

Charged Particle  
293 Kelvin Cross Sections

72-Hf-183





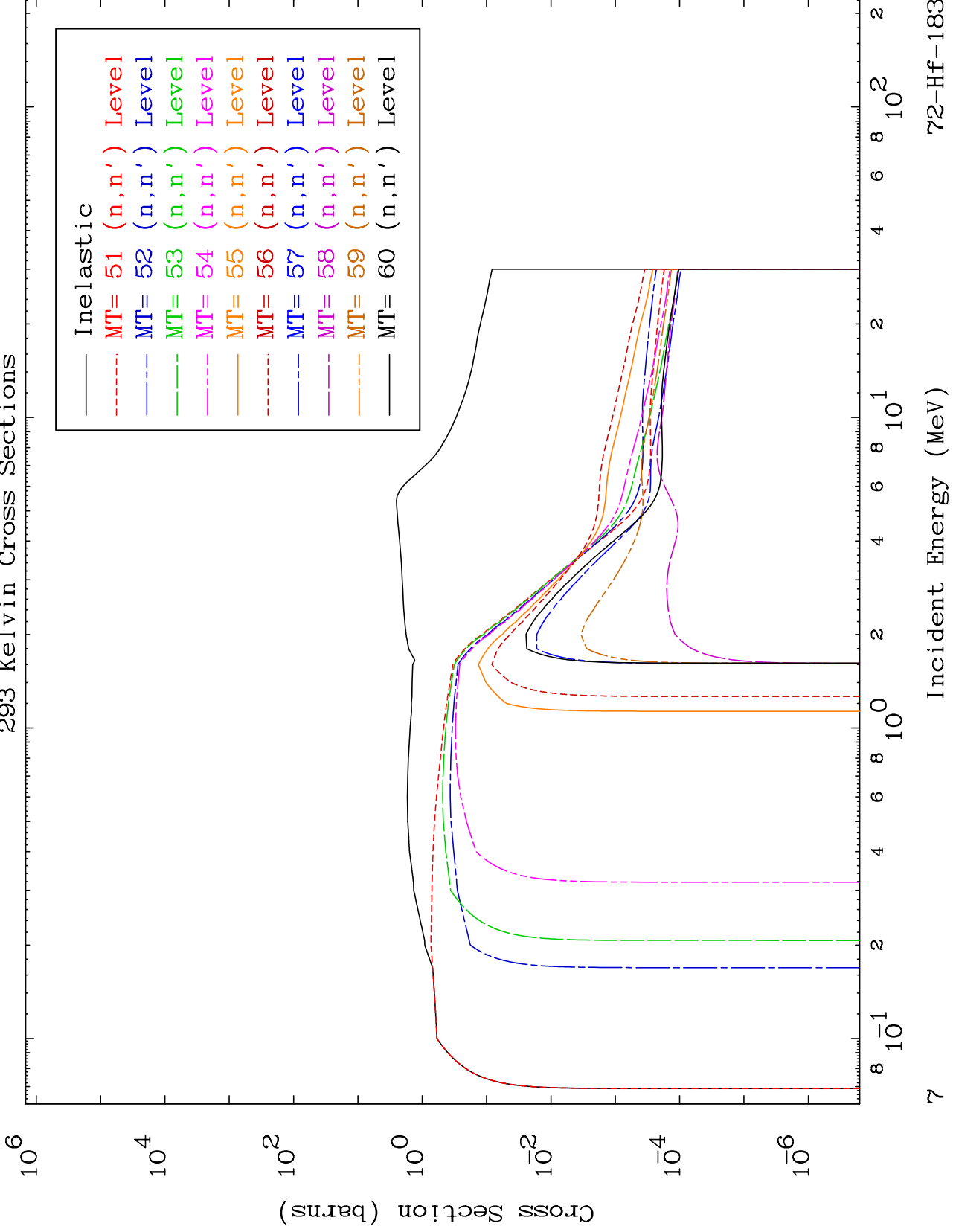


MAT 7252

(n,n') Level

72-Hf-183

293 Kelvin Cross Sections



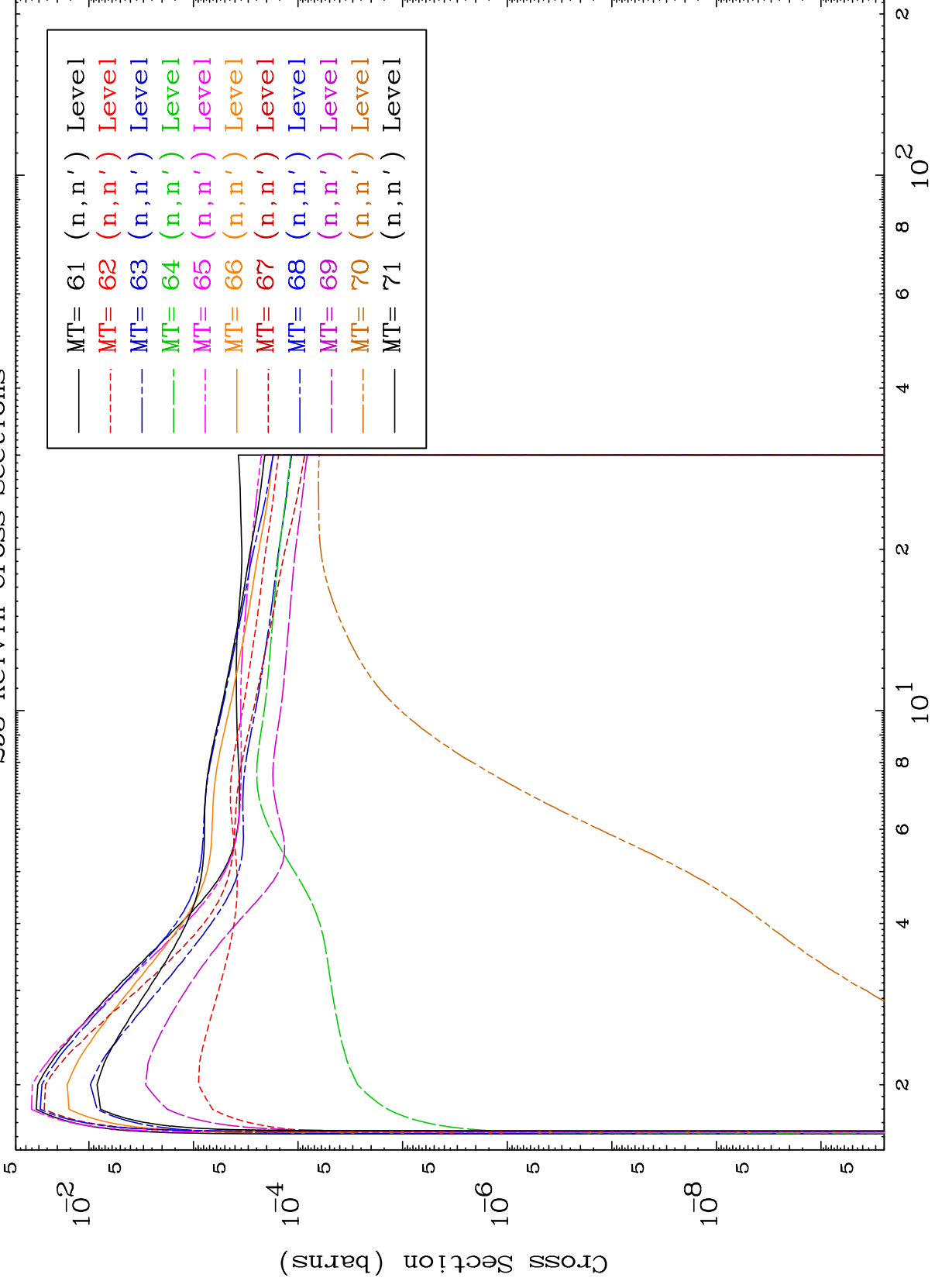


MAT 7252

(n,n') Level

72-Hf-183

293 Kelvin Cross Sections



8

Incident Energy (MeV)

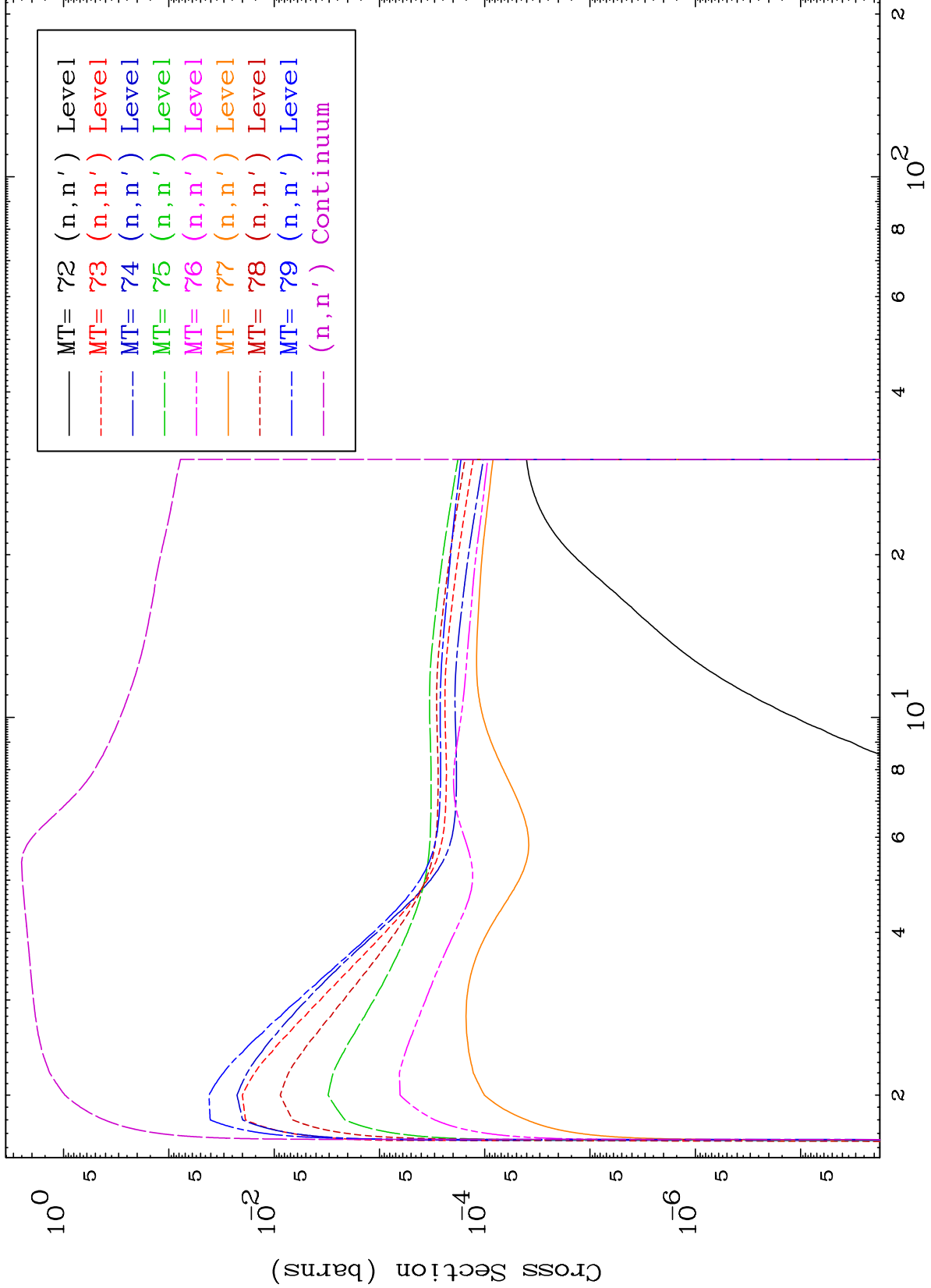
72-Hf-183

MAT 7252

(n,n') Level

72-Hf-183

293 Kelvin Cross Sections



9

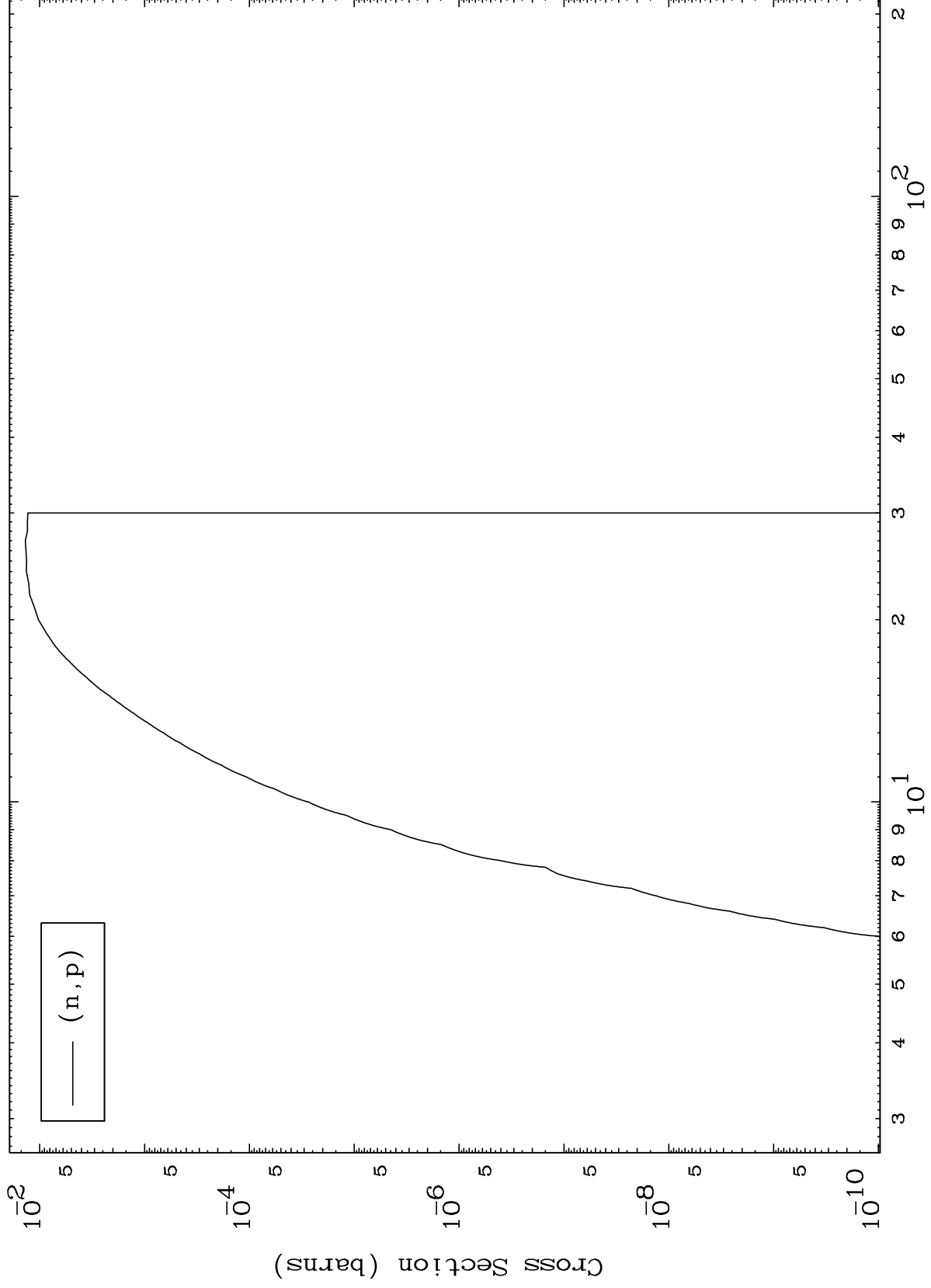
Incident Energy (MeV)

72-Hf-183

MAT 7252

(n,p) Levels  
293 Kelvin Cross Sections

72-Hf-183



10

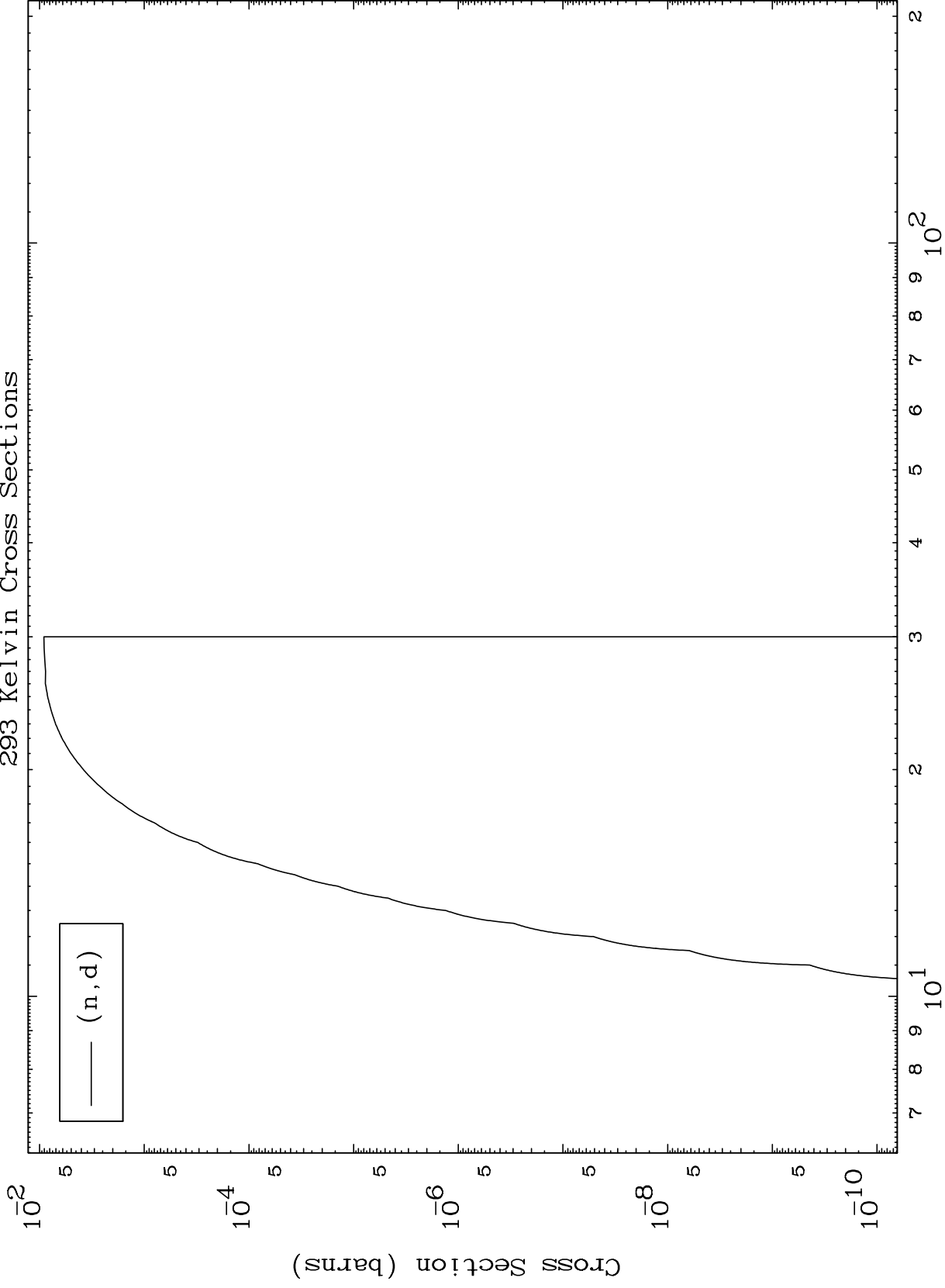
Incident Energy (MeV)

72-Hf-183

MAT 7252

(n,d) Levels  
293 Kelvin Cross Sections

72-Hf-183



11

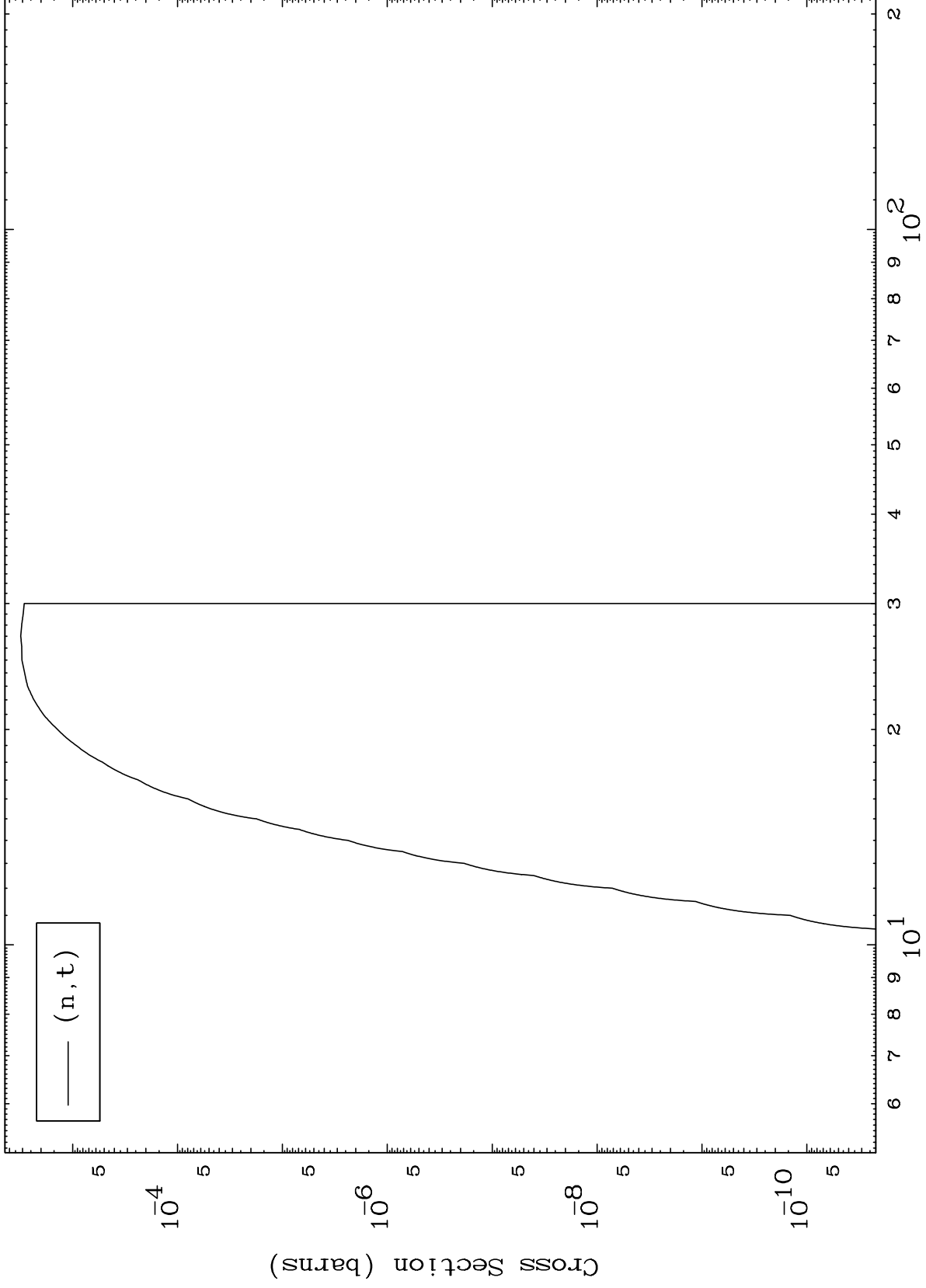
Incident Energy (MeV)

72-Hf-183

MAT 7252

(n,t) Levels  
293 Kelvin Cross Sections

72-Hf-183



12

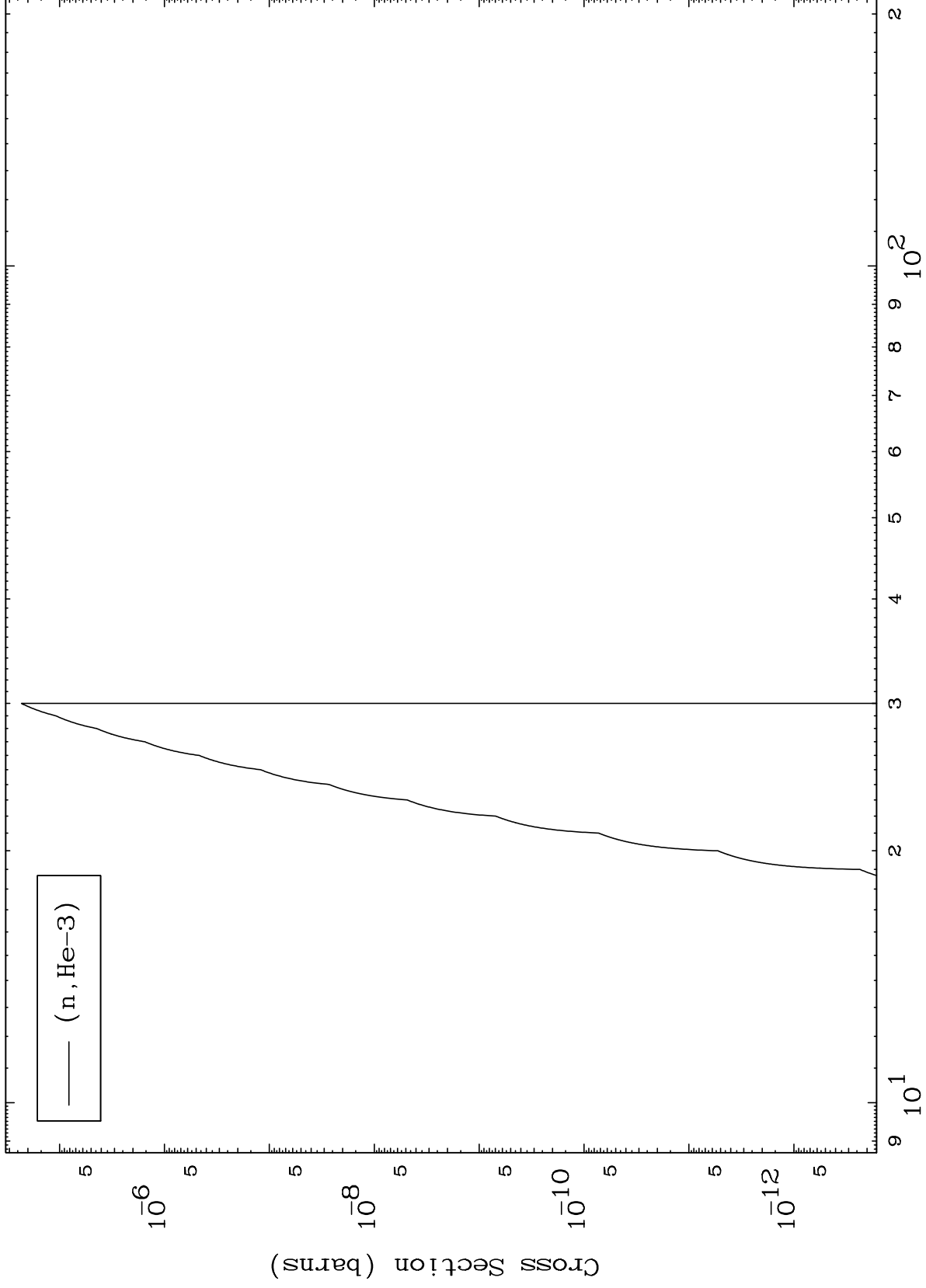
Incident Energy (MeV)

72-Hf-183

MAT 7252

(n,He3) Levels  
293 Kelvin Cross Sections

72-Hf-183



13

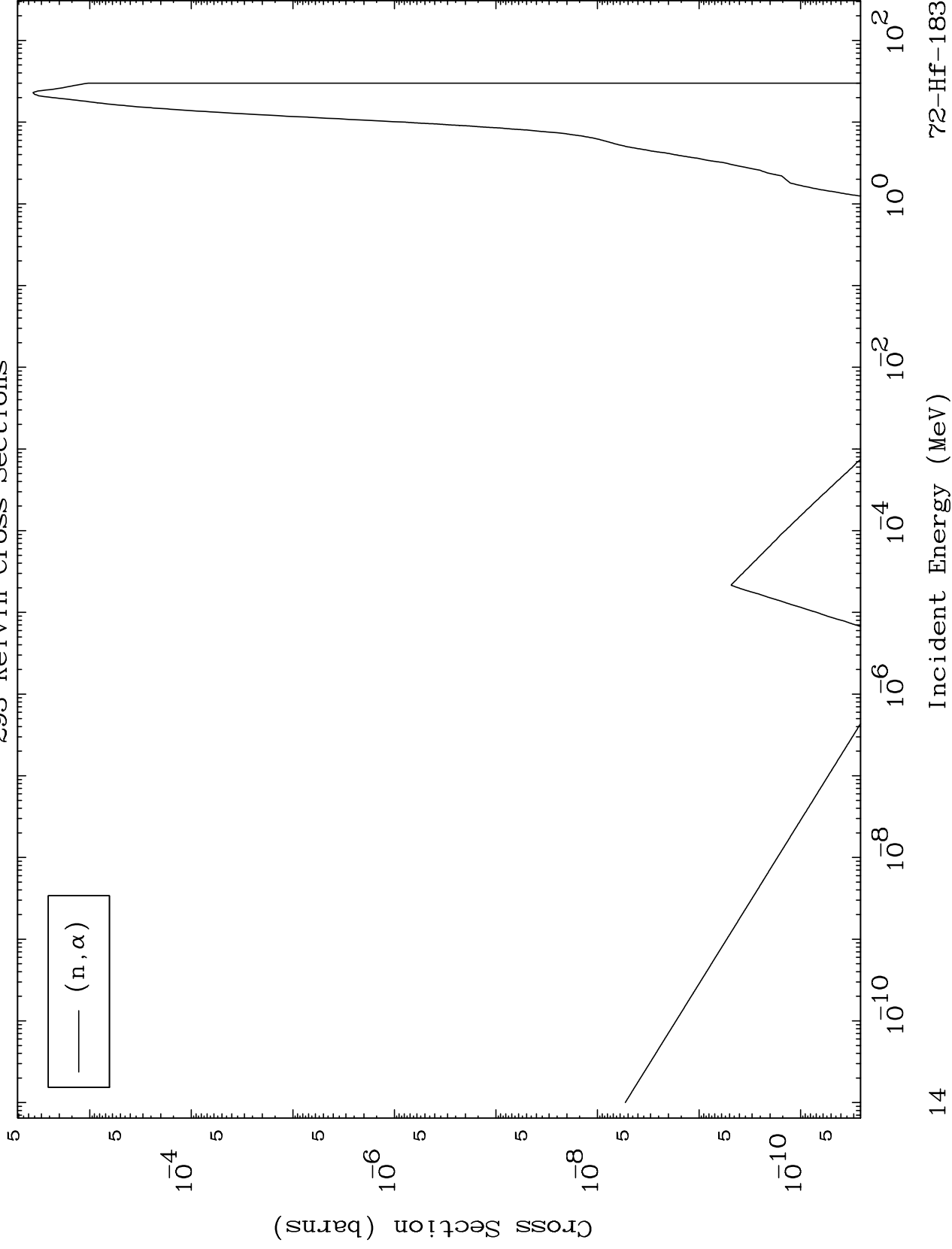
Incident Energy (MeV)

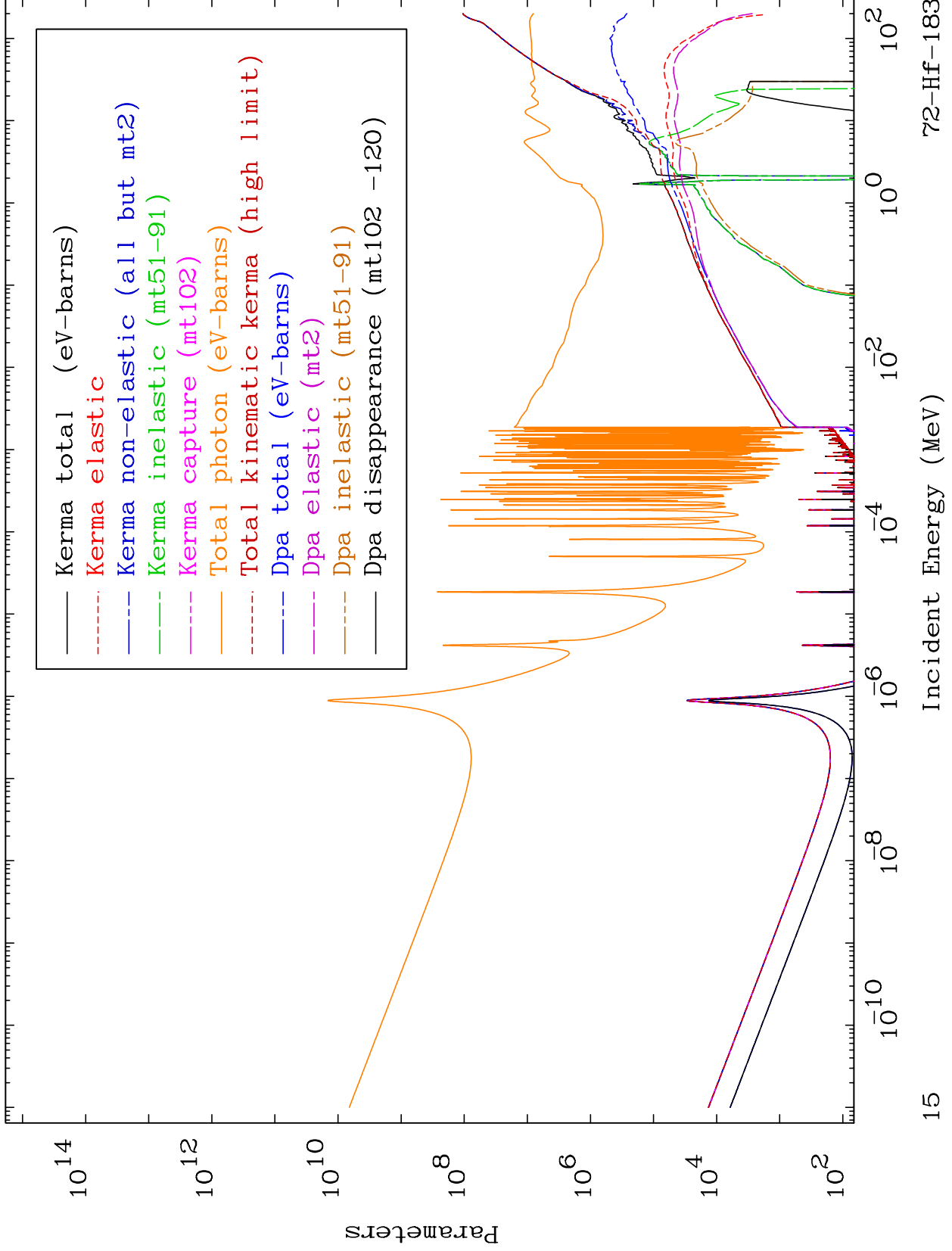
72-Hf-183

MAT 7252

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

72-Hf-183



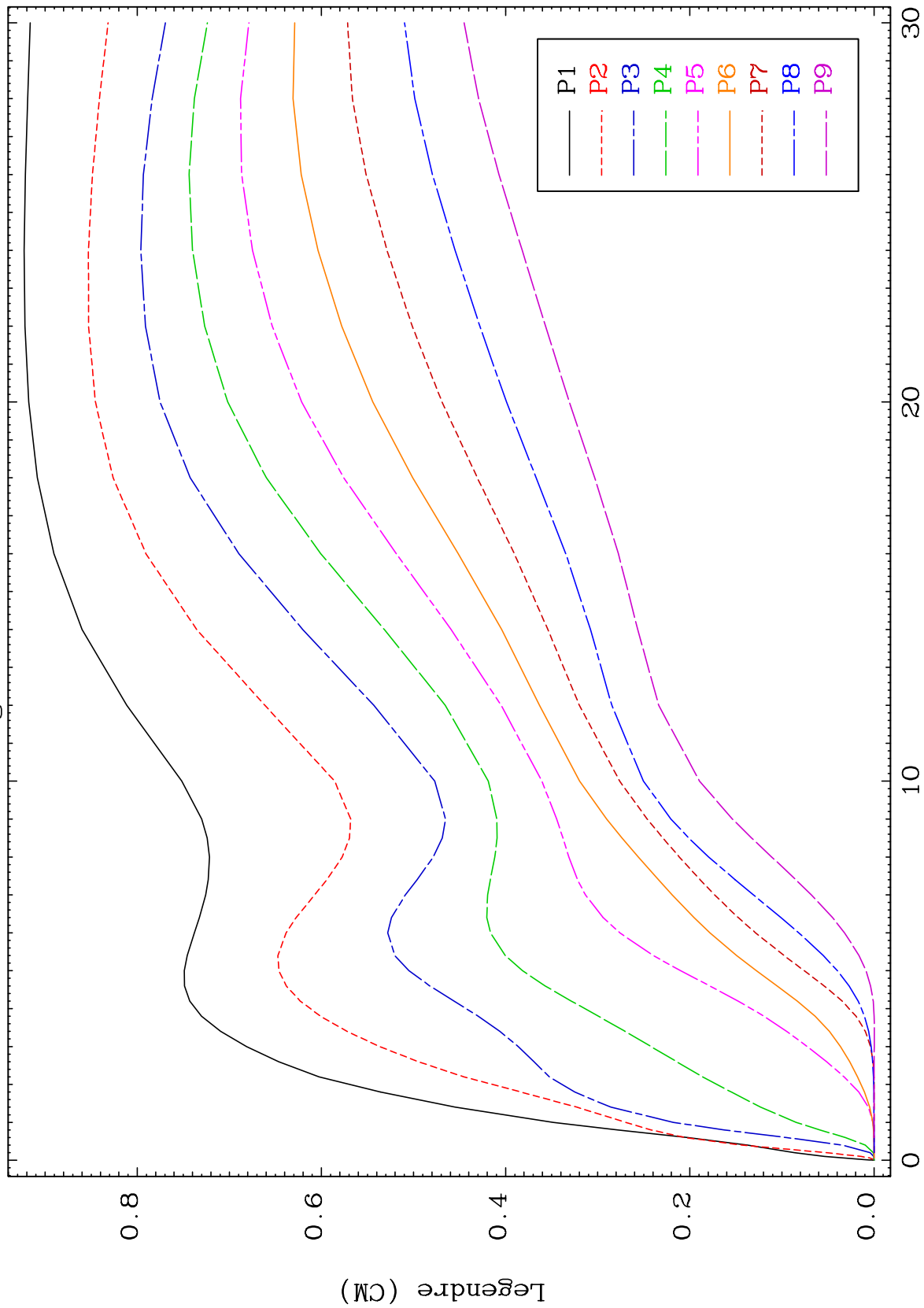




MAT 7252

Elastic Legendre Coefficients

72-Hf-183



16

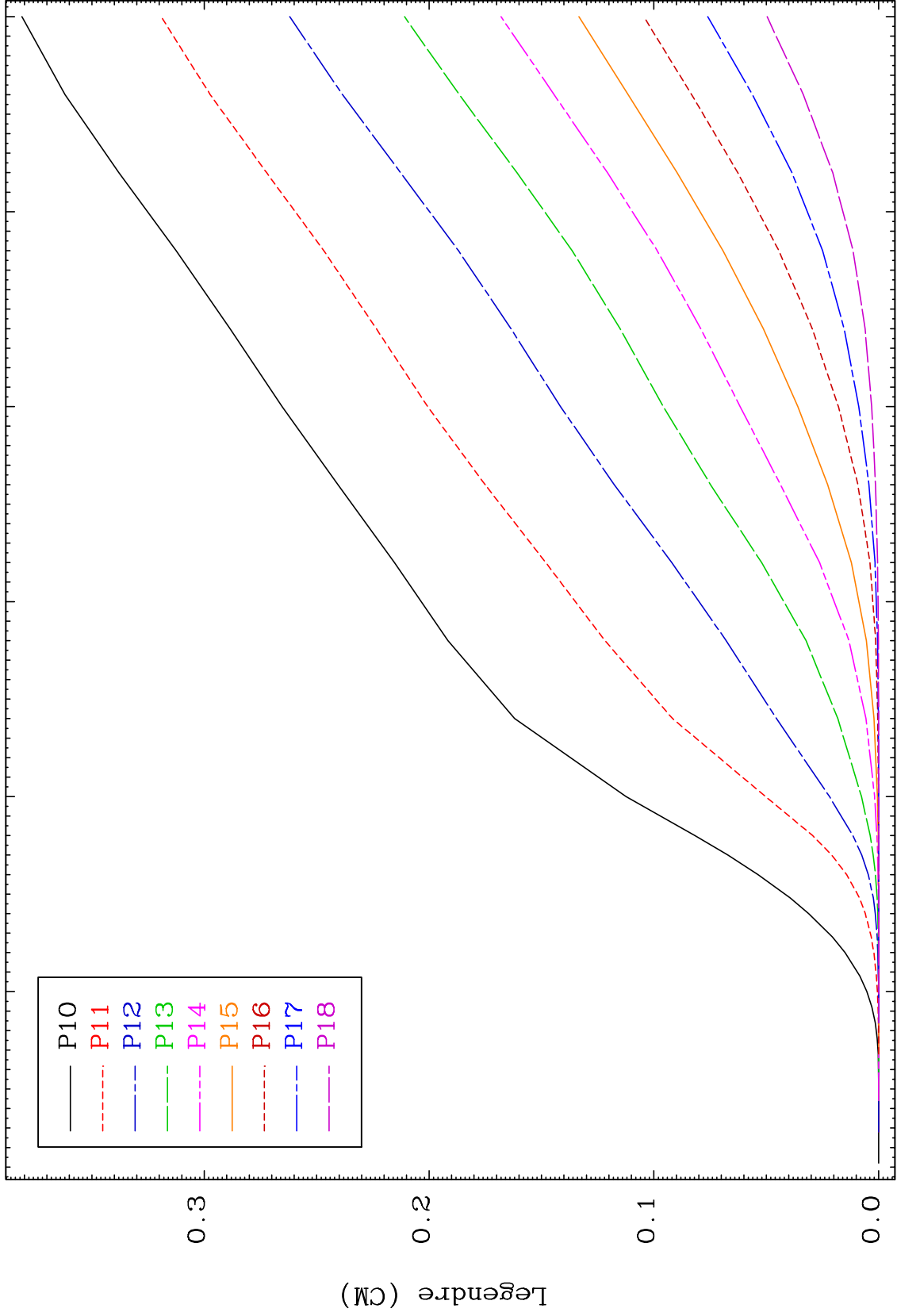
Incident Energy (MeV)

72-Hf-183

MAT 7252

Elastic Legendre Coefficients

72-Hf-183



17

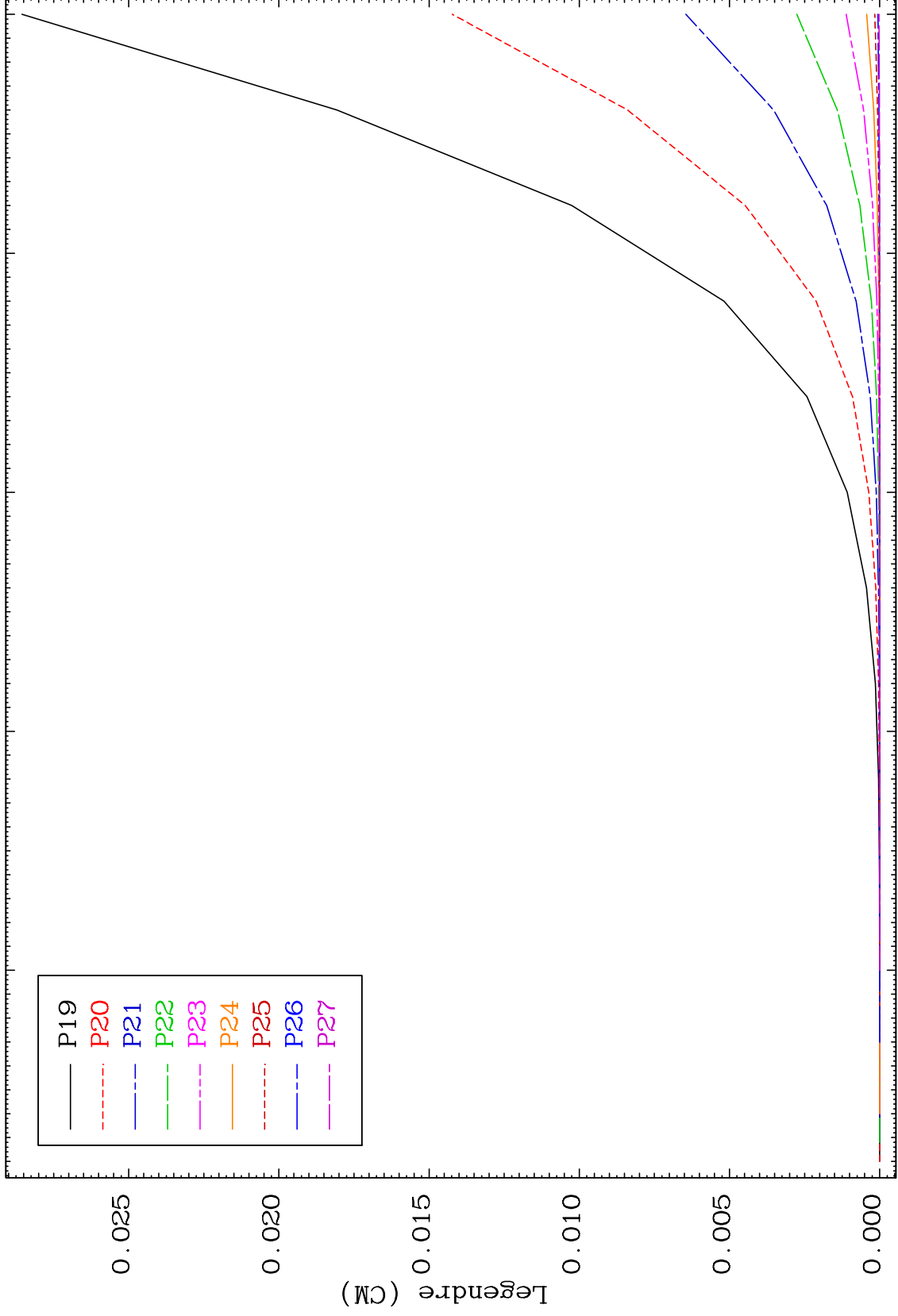
Incident Energy (MeV)

72-Hf-183

MAT 7252

Elastic Legendre Coefficients

72-Hf-183



18

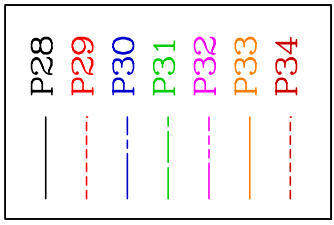
Incident Energy (MeV)

72-Hf-183

MAT 7252

Elastic  
Legendre Coefficients

72-Hf-183



$\times 10^{-6}$

6

4

2

0

Legendre (CM)

15

20

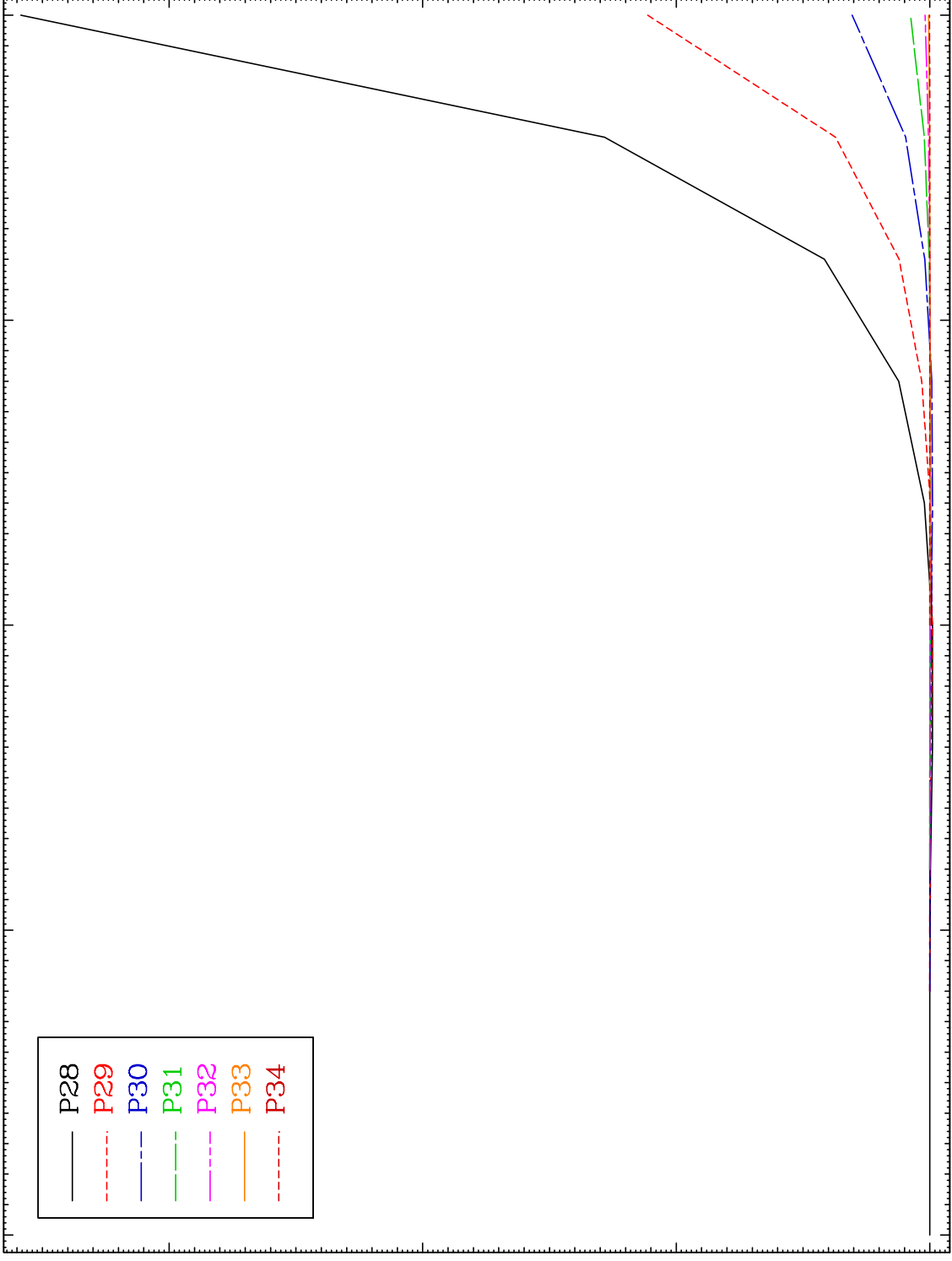
25

30

19

Incident Energy (MeV)

72-Hf-183

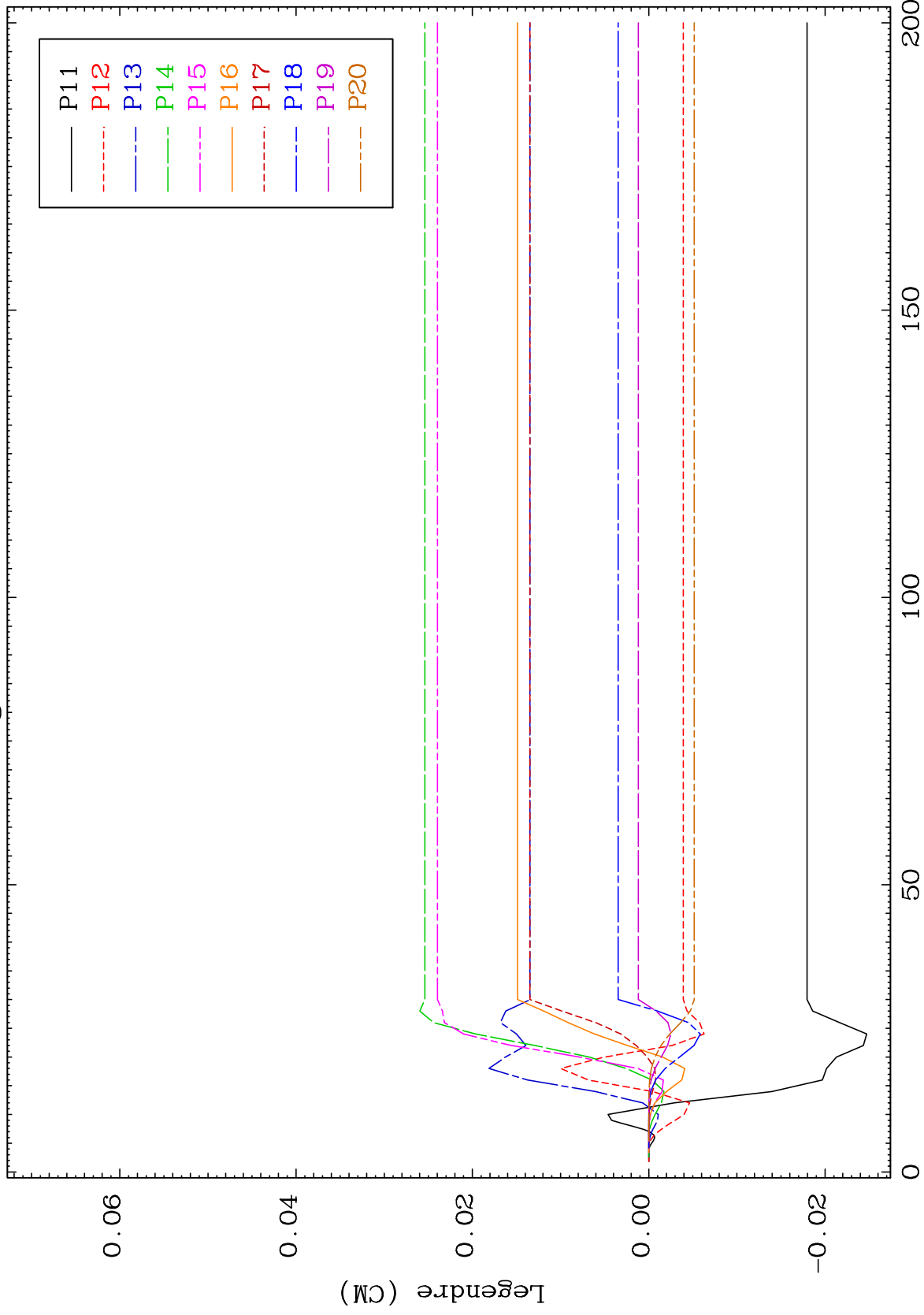




MAT 7252

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

72-Hf-183



21

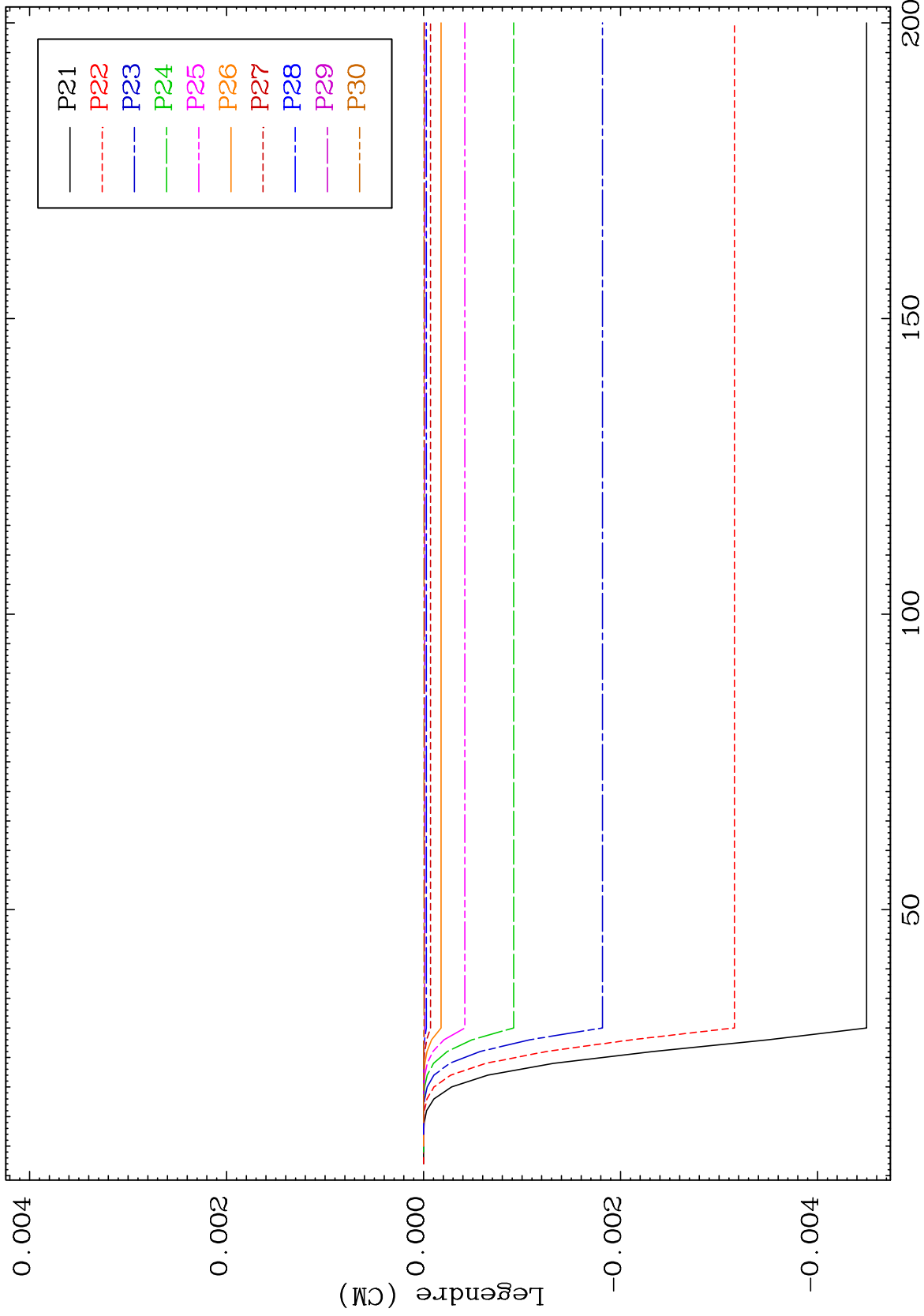
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

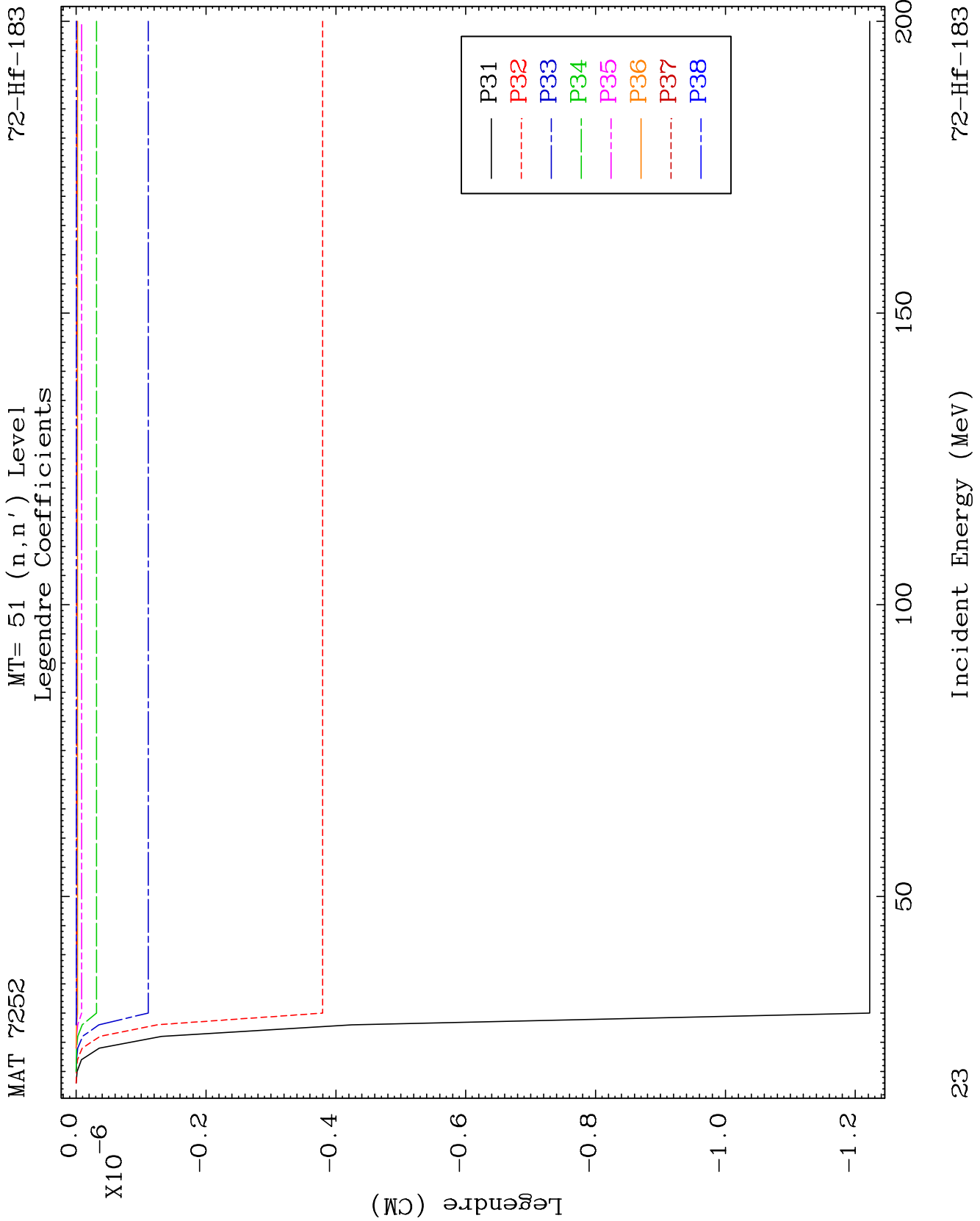
72-Hf-183



22

Incident Energy (MeV)

72-Hf-183



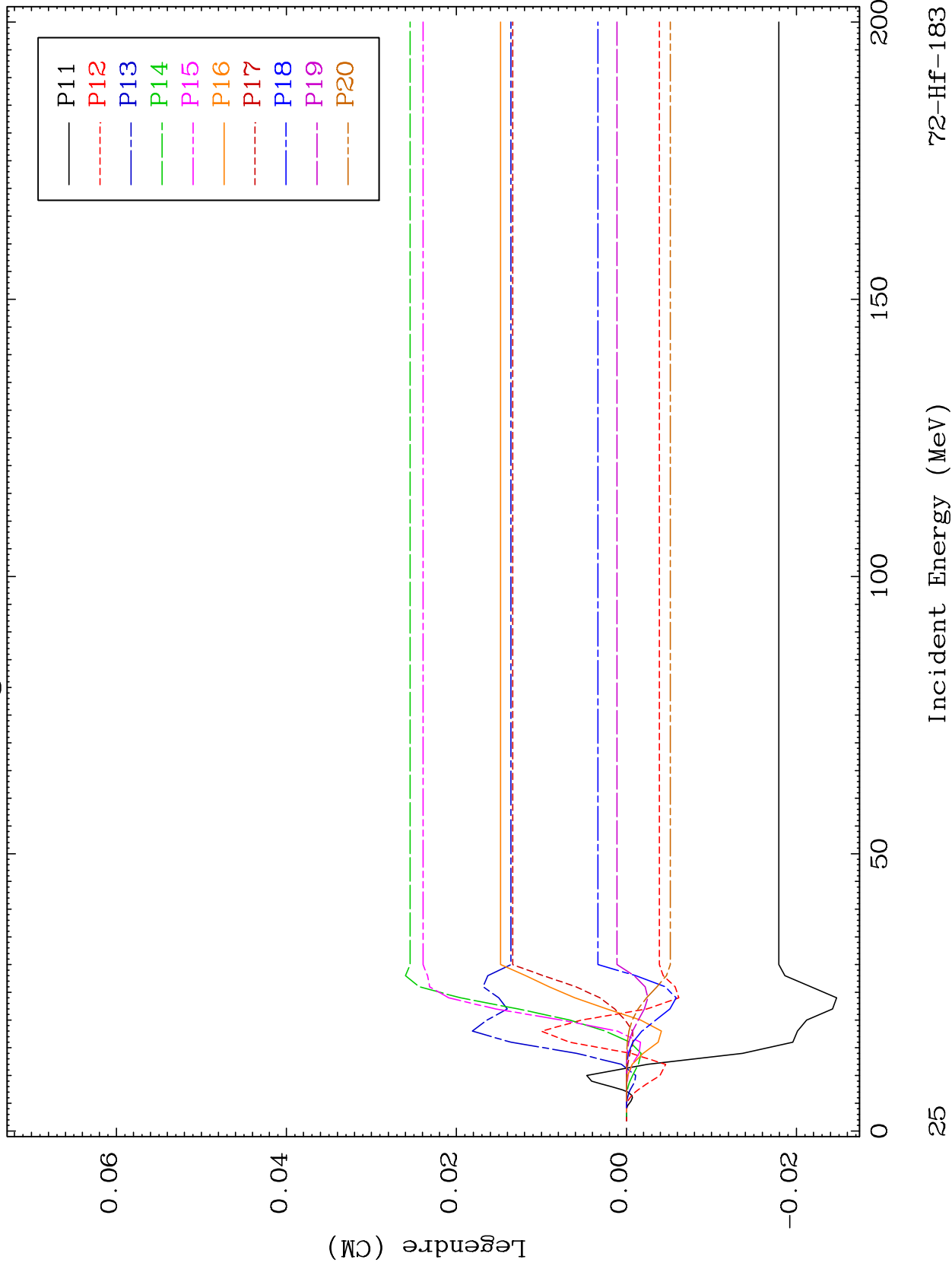




MAT 7252

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

72-Hf-183



72-Hf-183

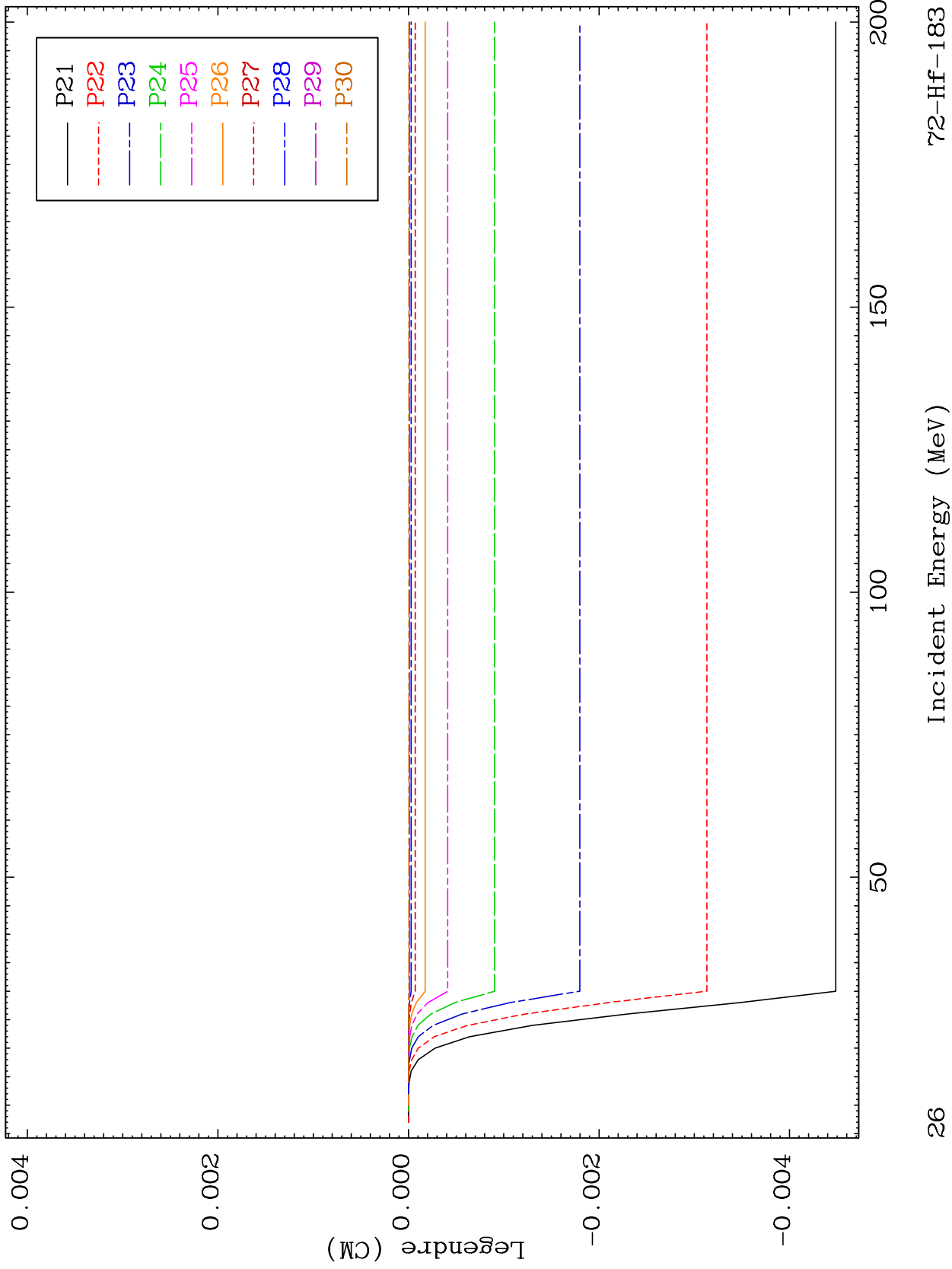
Incident Energy (MeV)

25

MAT 7252

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

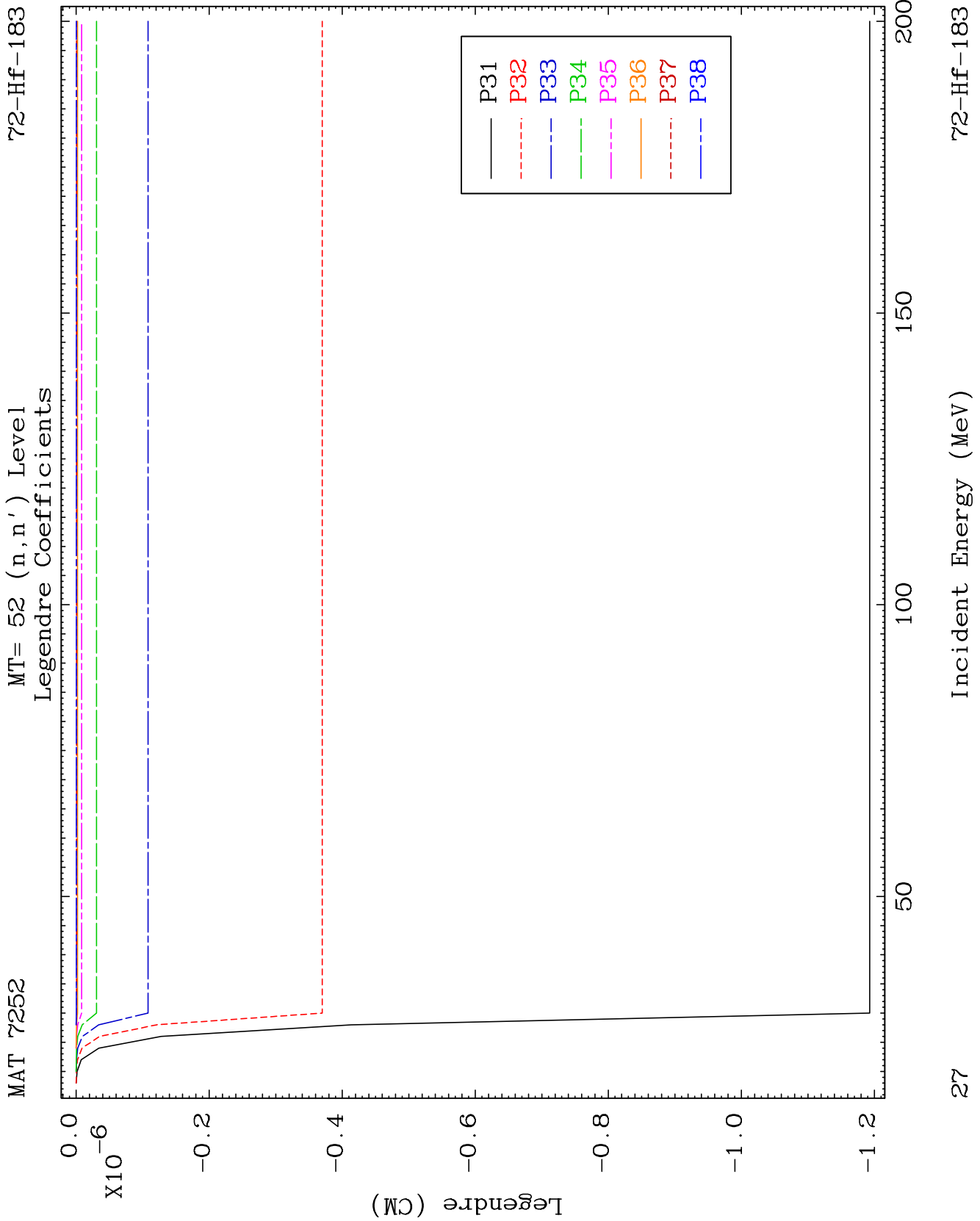
72-Hf-183

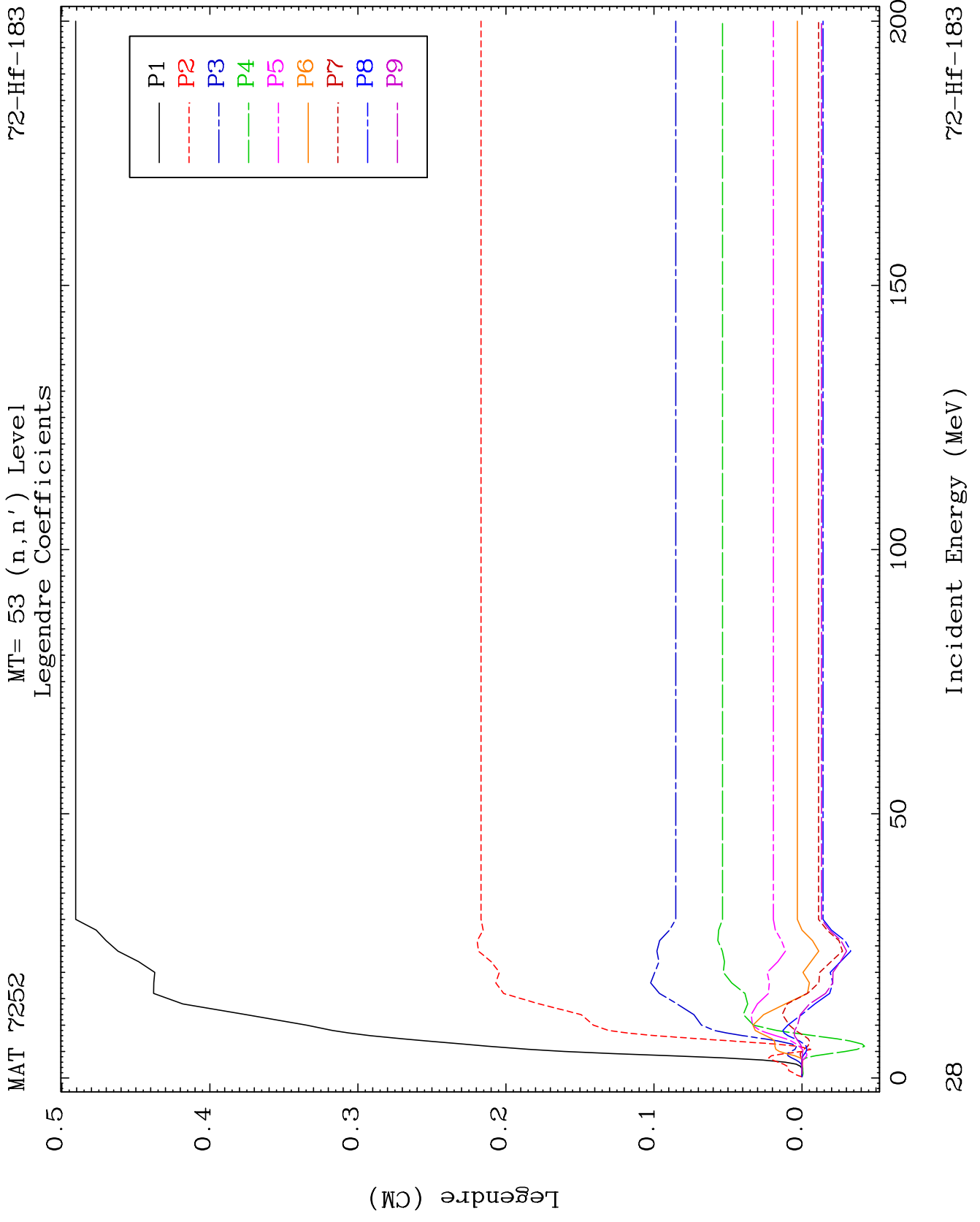


26

Incident Energy (MeV)

72-Hf-183

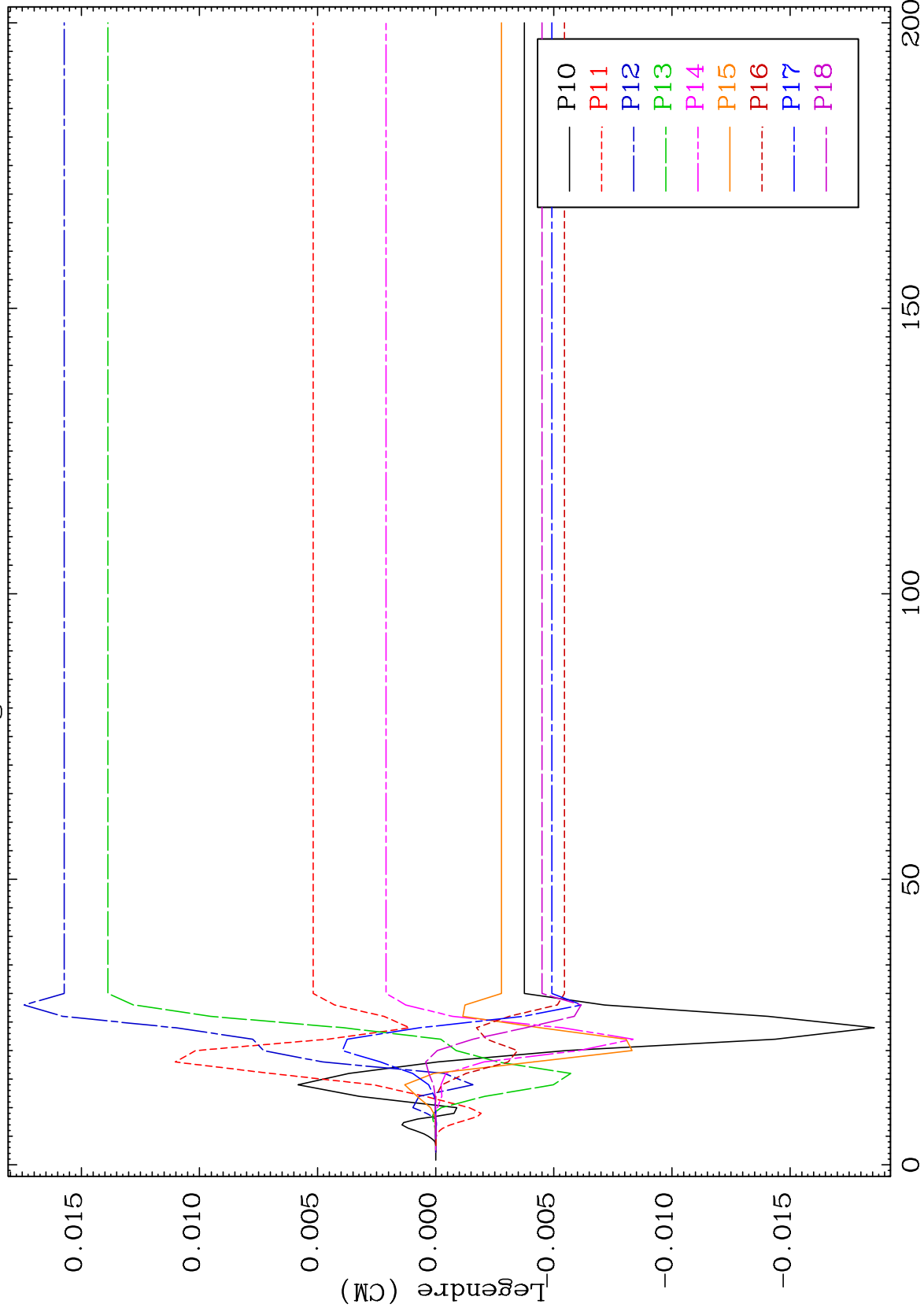




MAT 7252

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

72-Hf-183



29

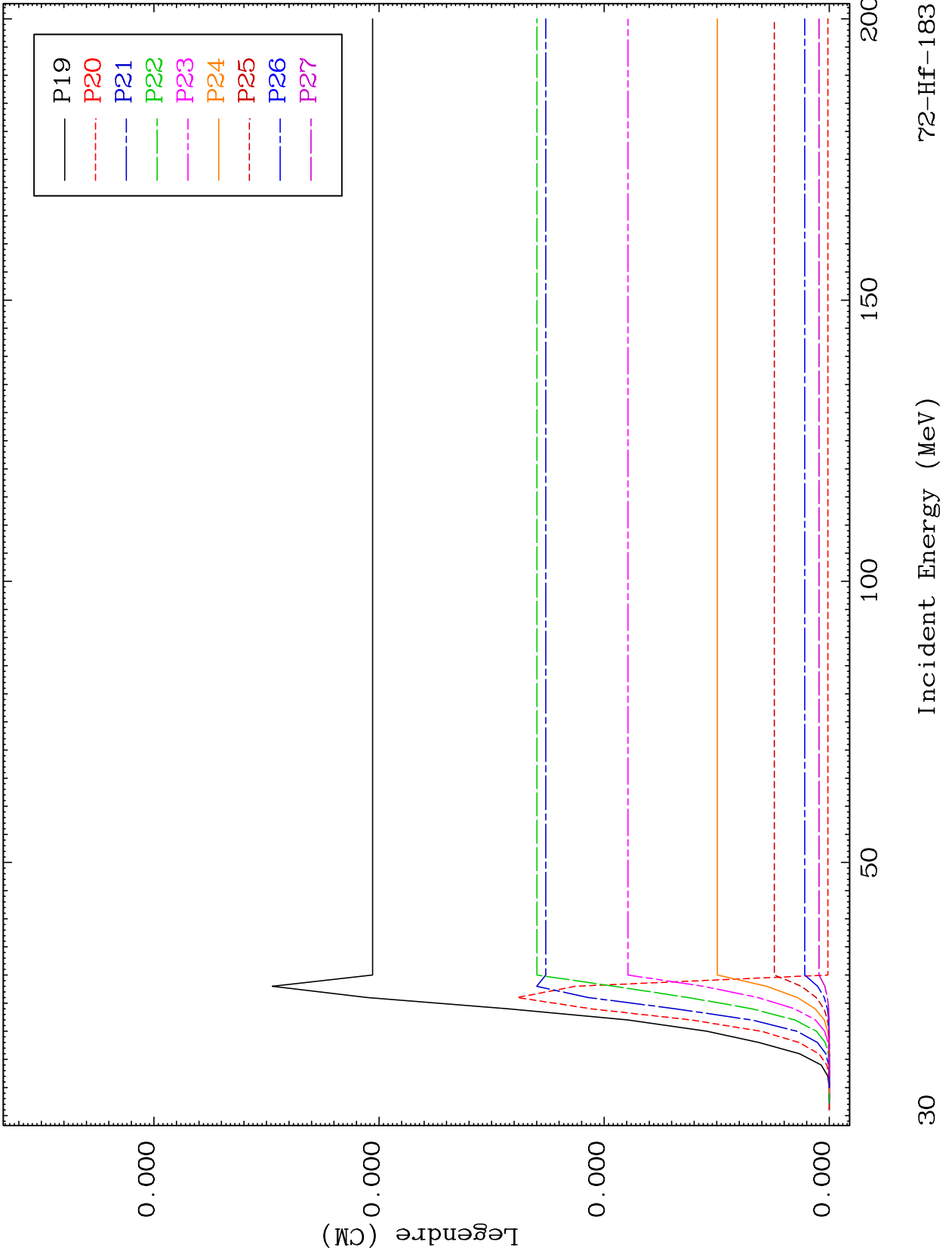
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

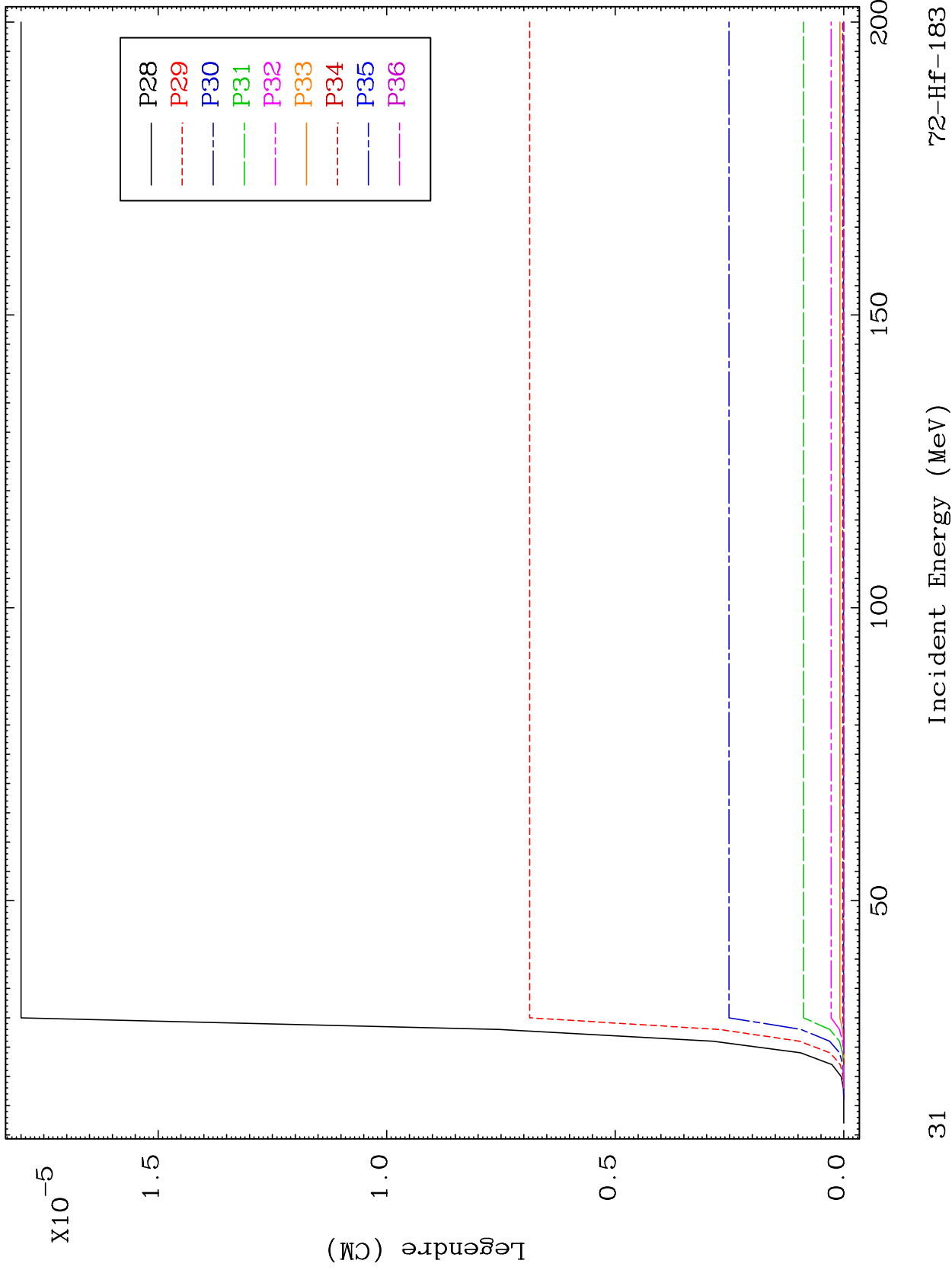
72-Hf-183



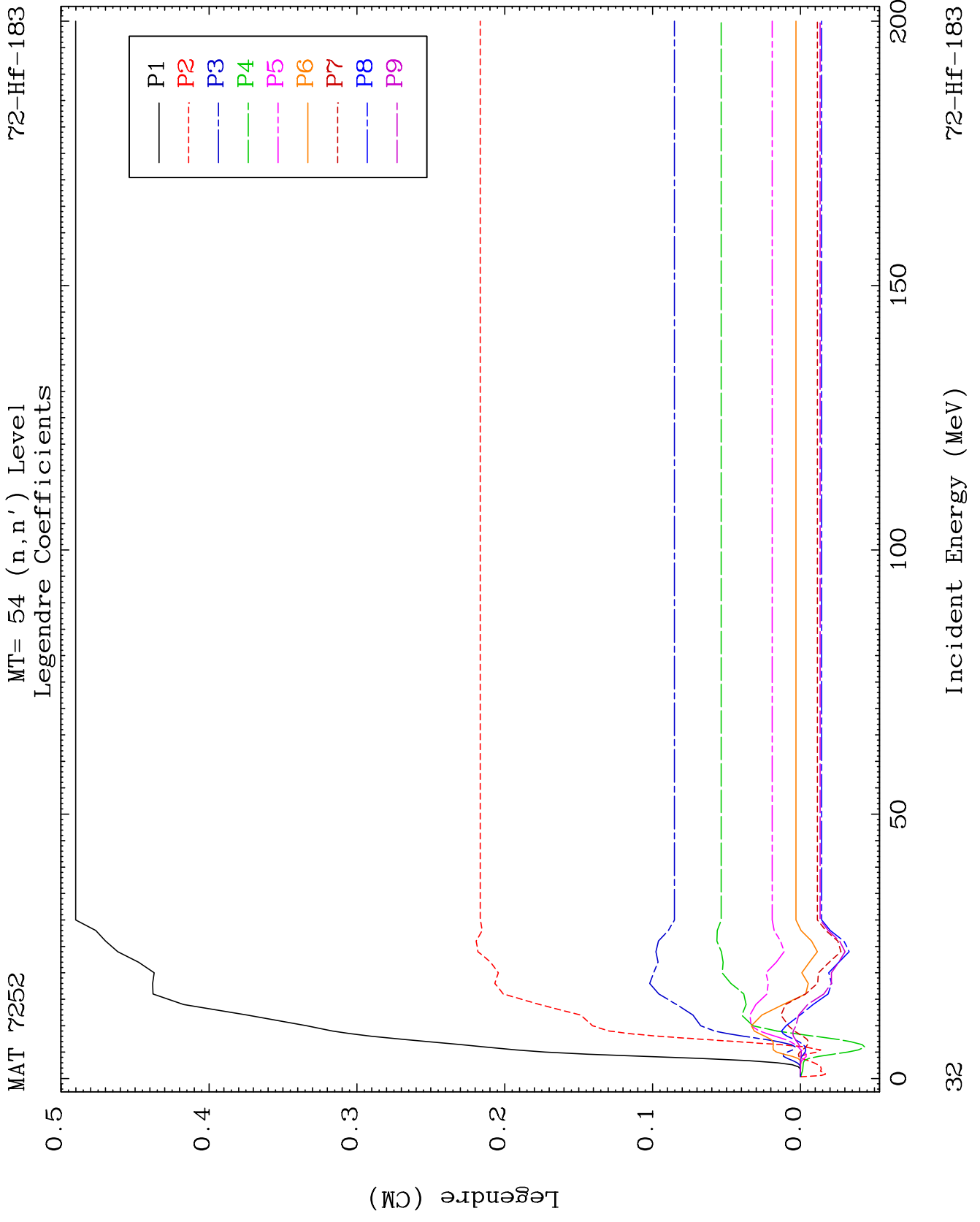
30

Incident Energy (MeV)

72-Hf-183



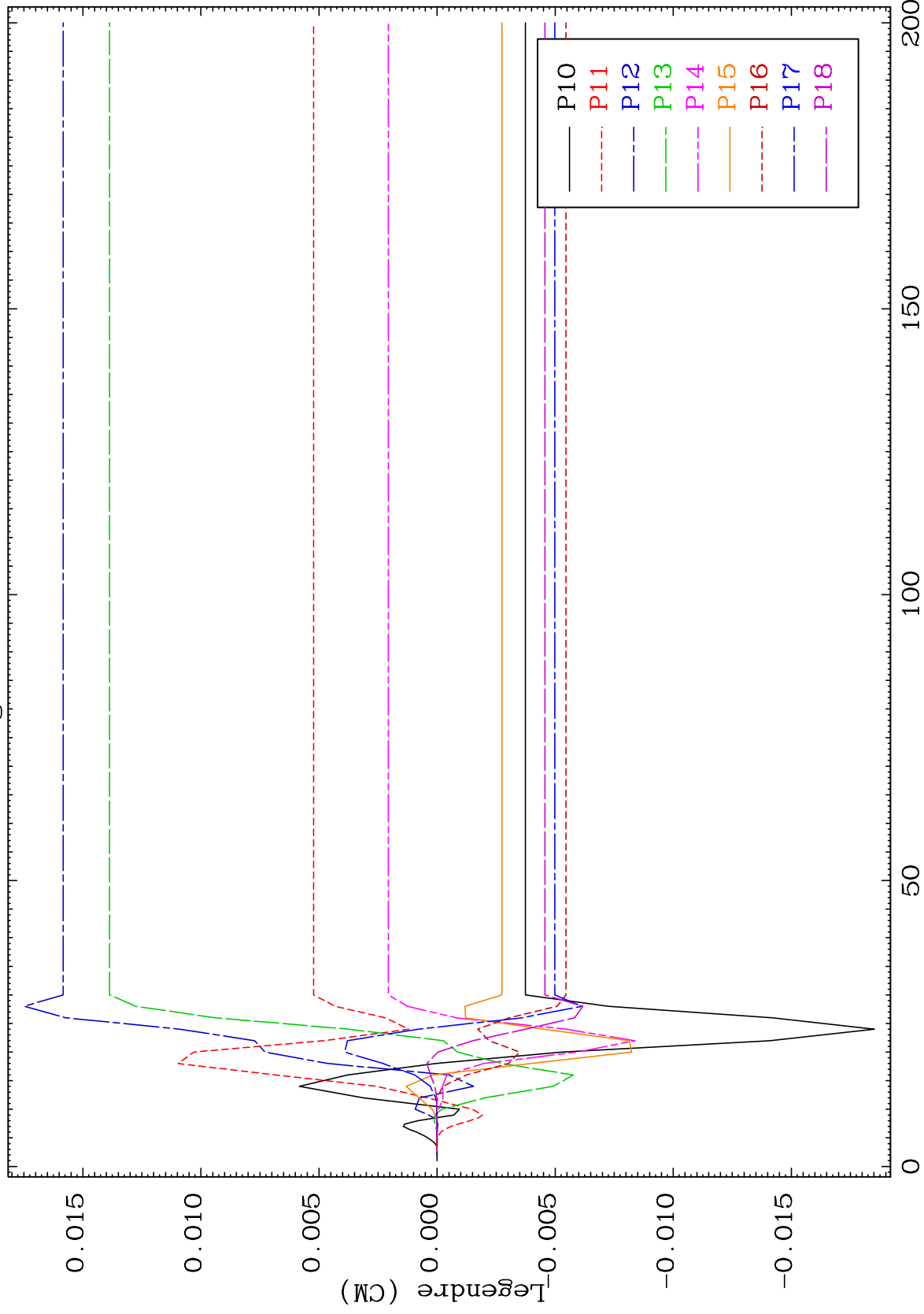




MAT 7252

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

72-Hf-183



33

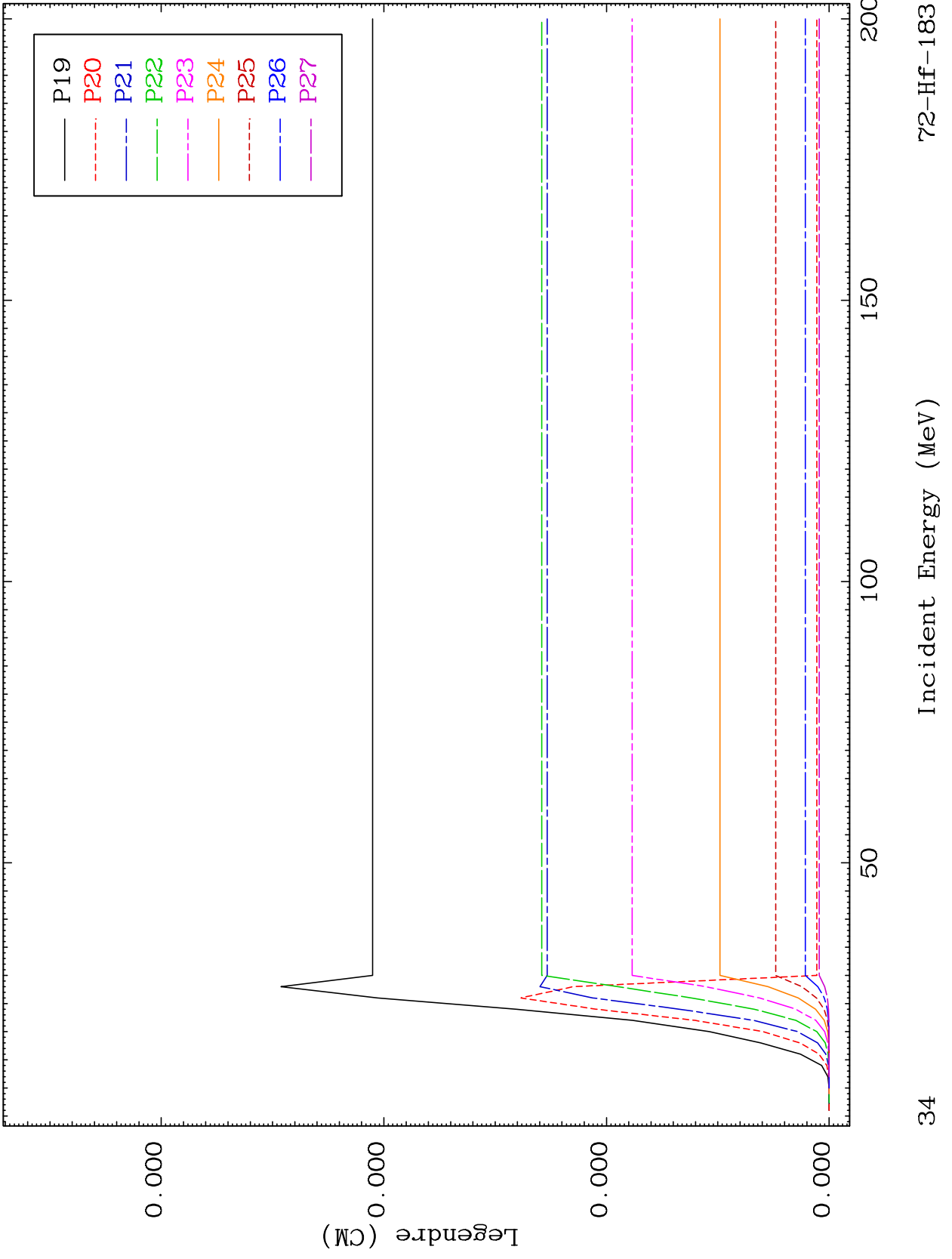
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



34

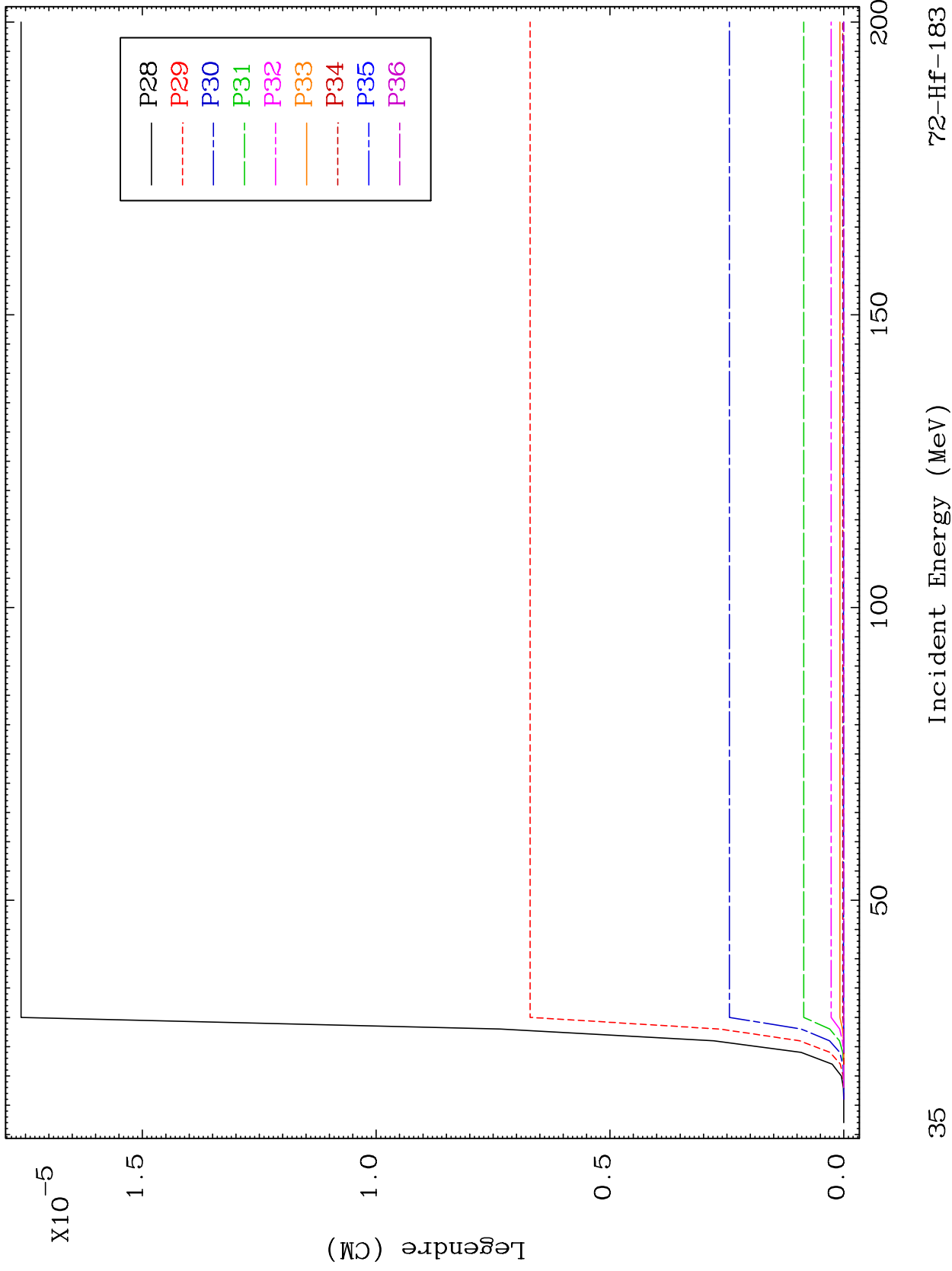
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



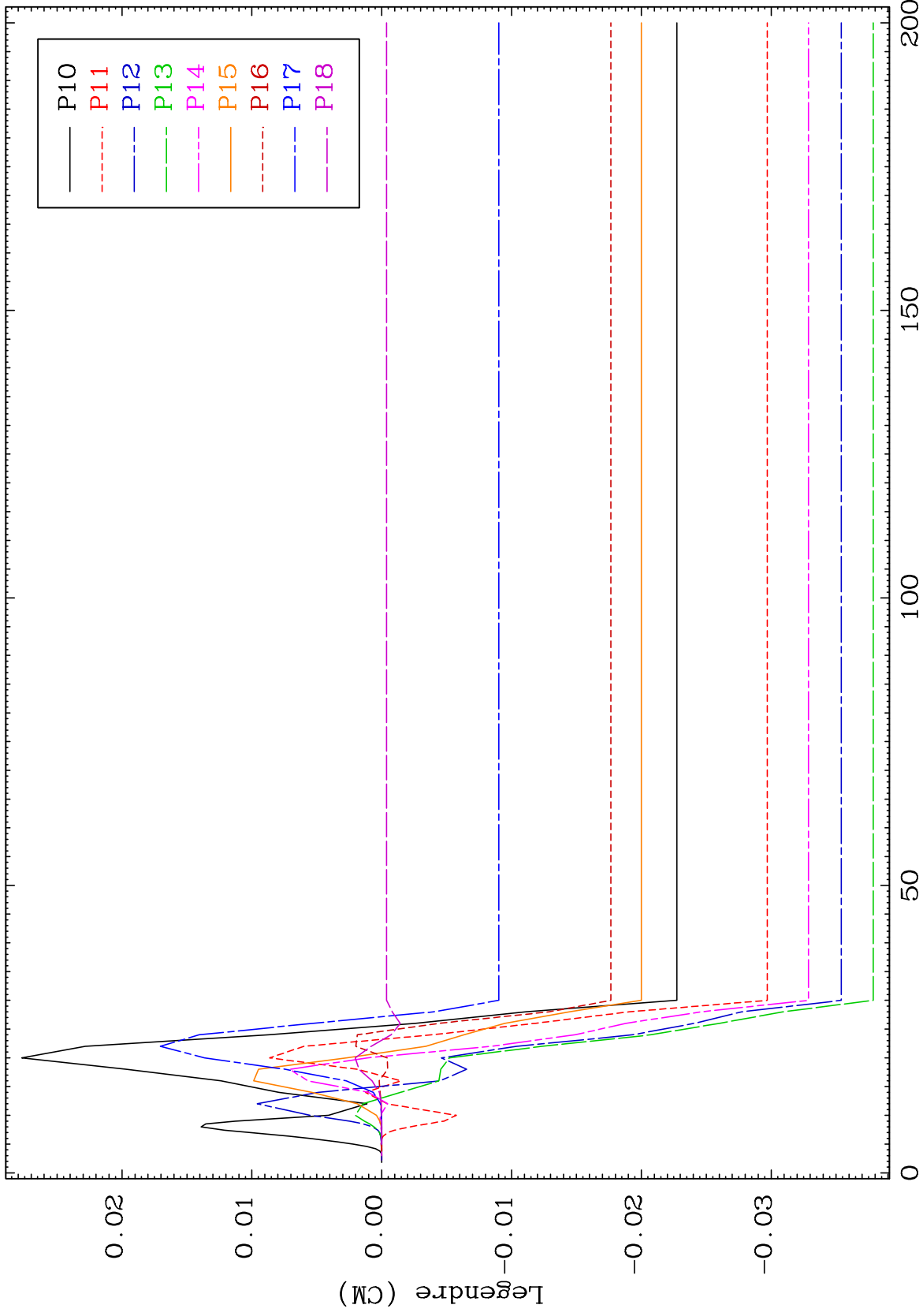
35



MAT 7252

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

72-Hf-183



37

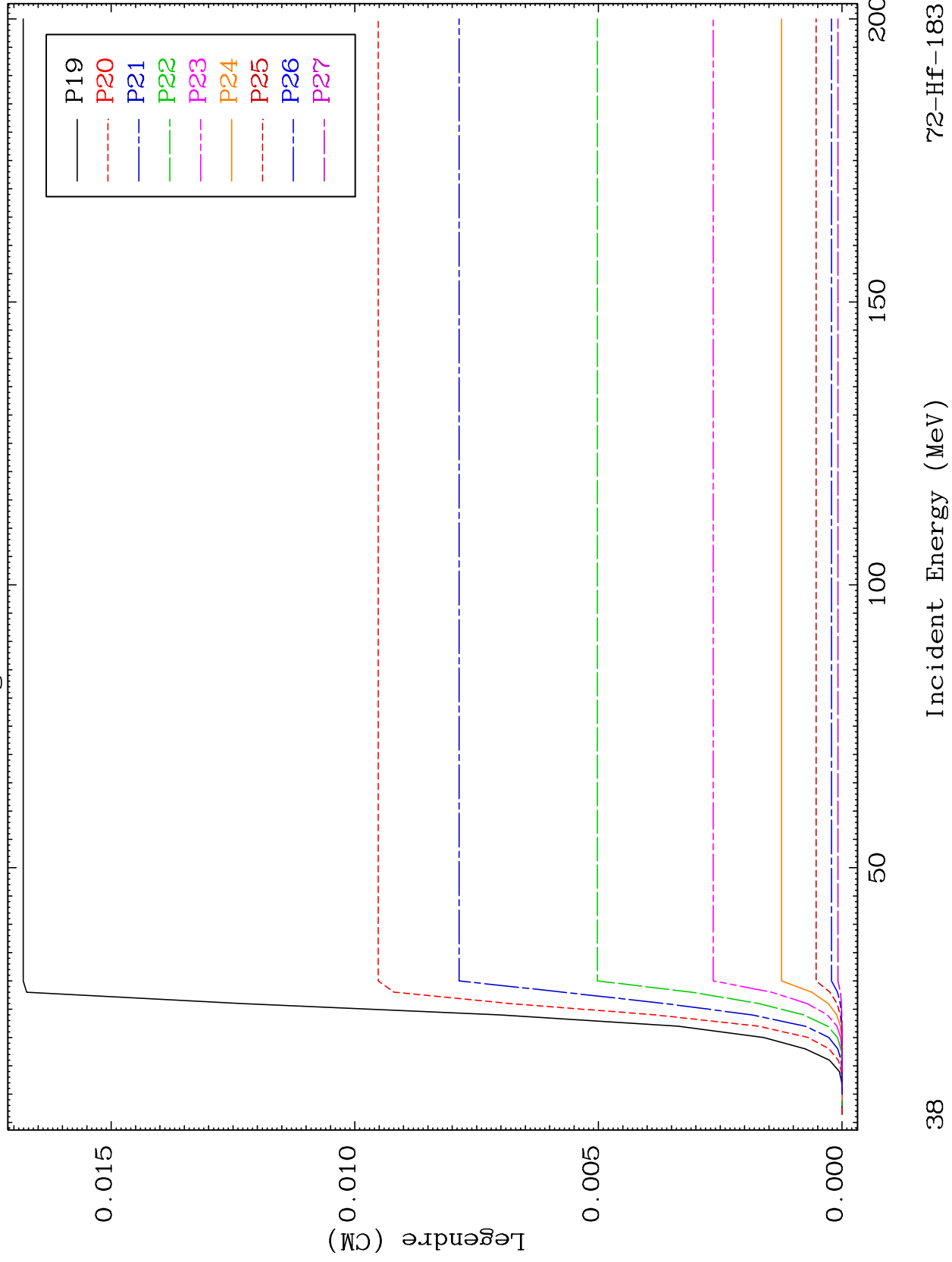
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



38

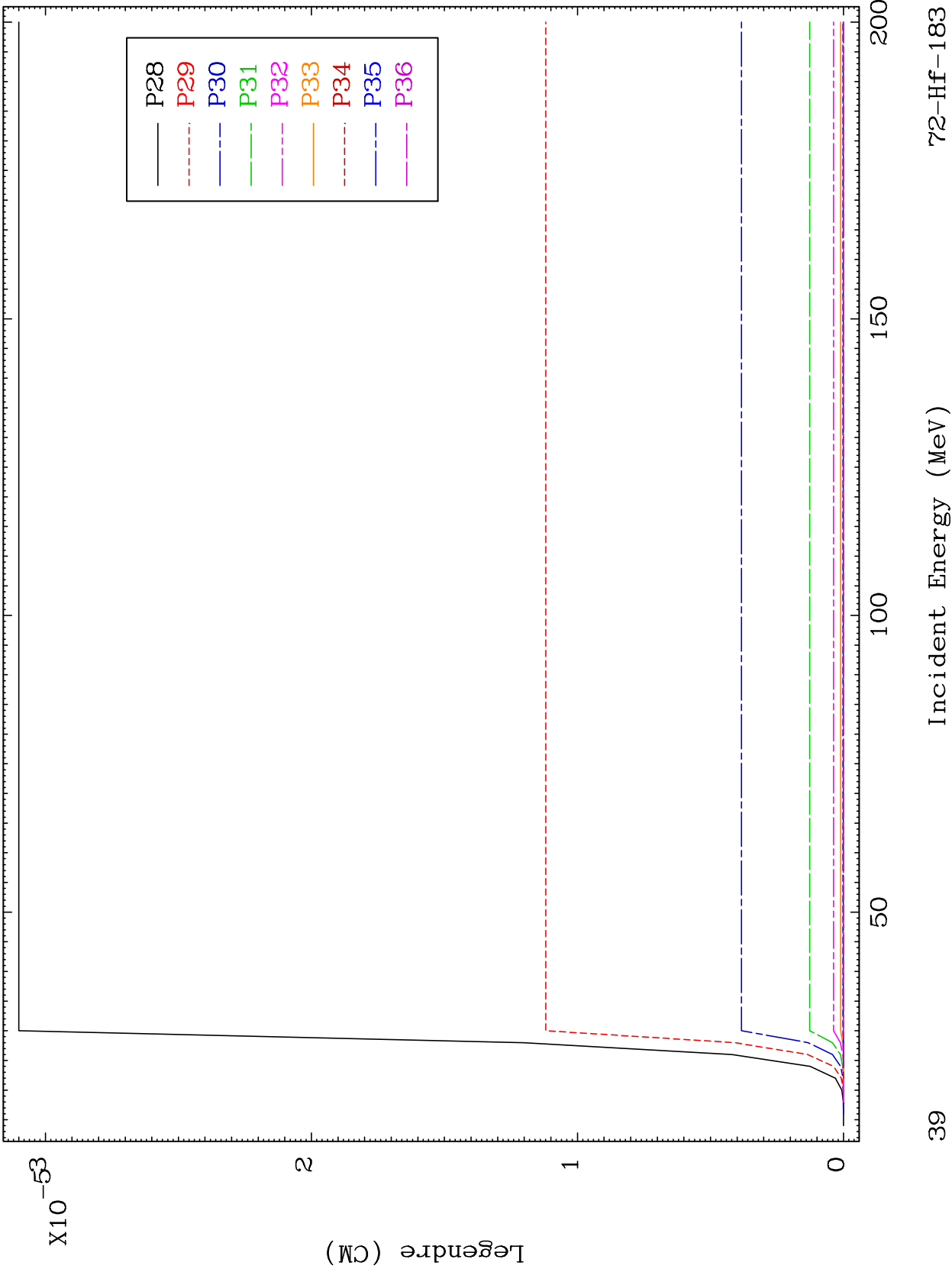
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183

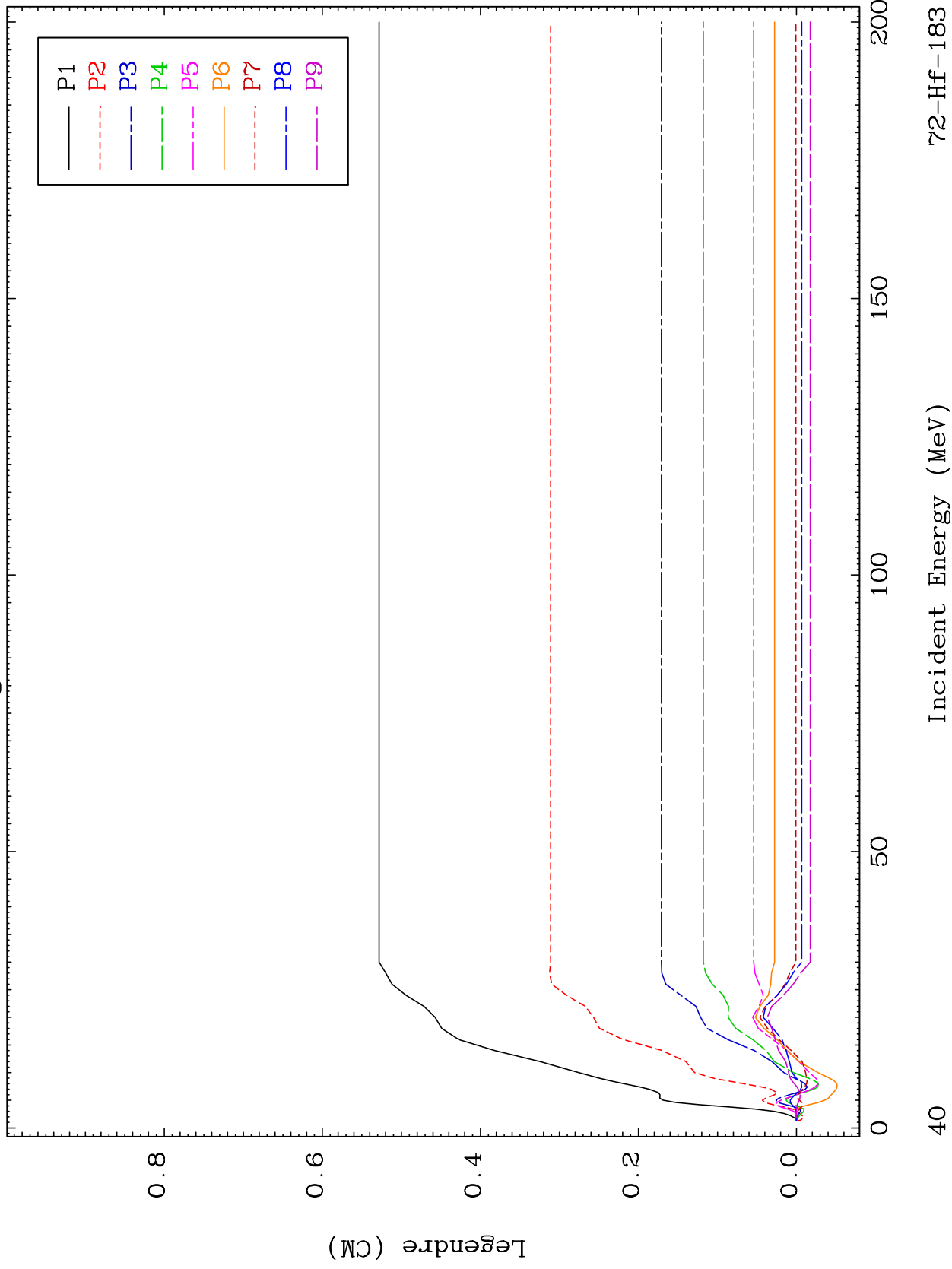




MAT 7252

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

72-Hf-183

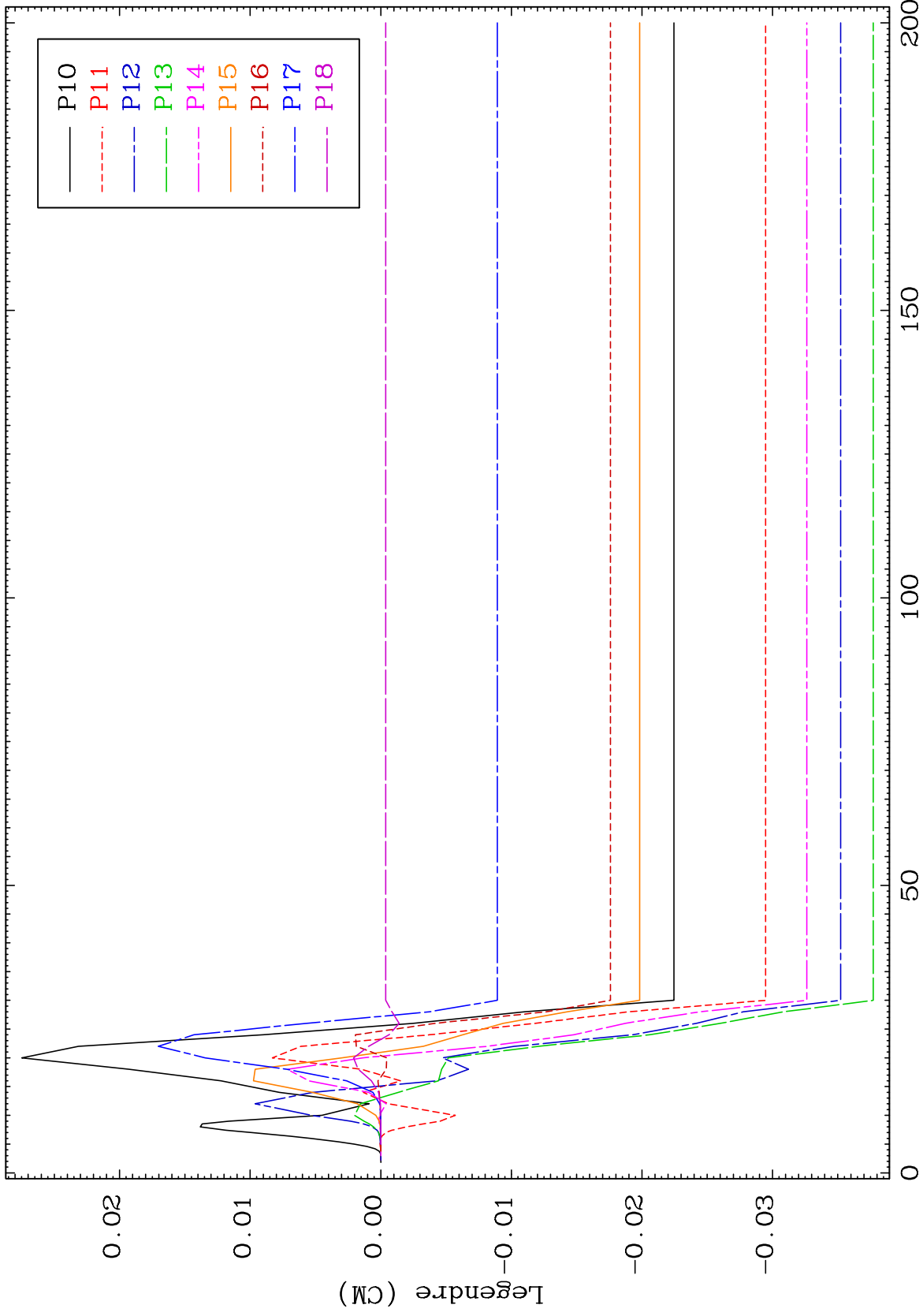


72-Hf-183

MAT 7252

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

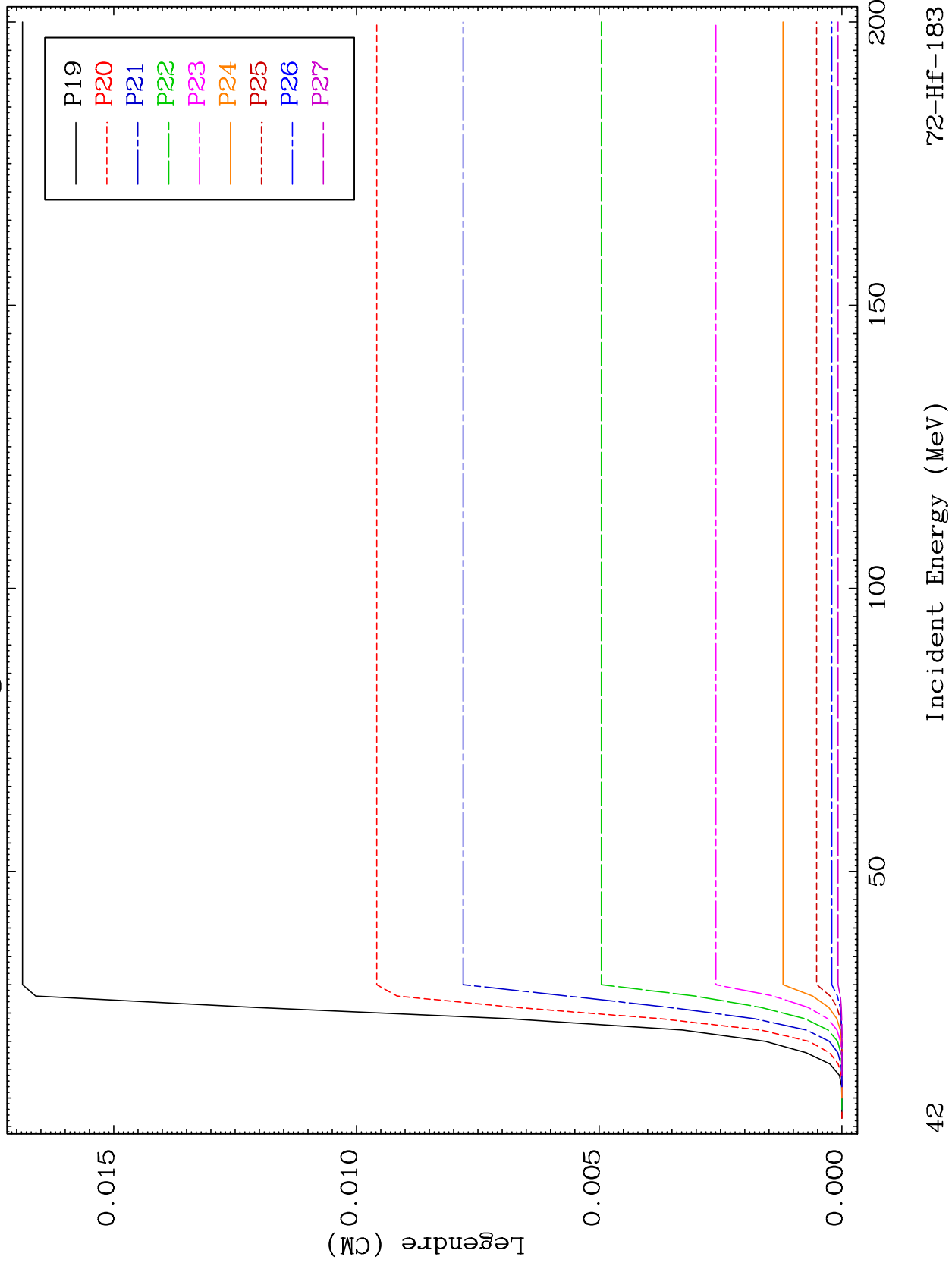
72-Hf-183



MAT 7252

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

72-Hf-183



42

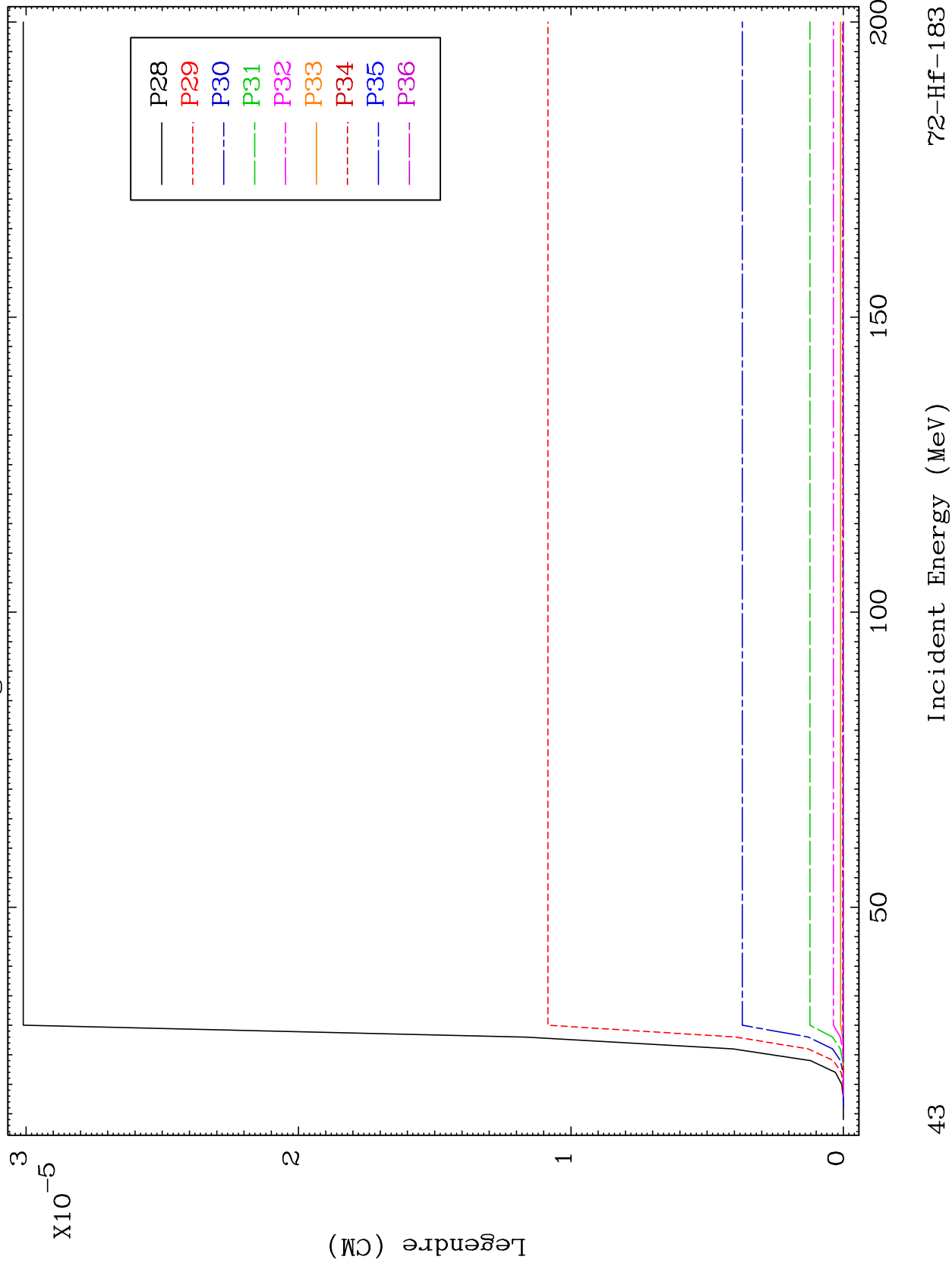
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

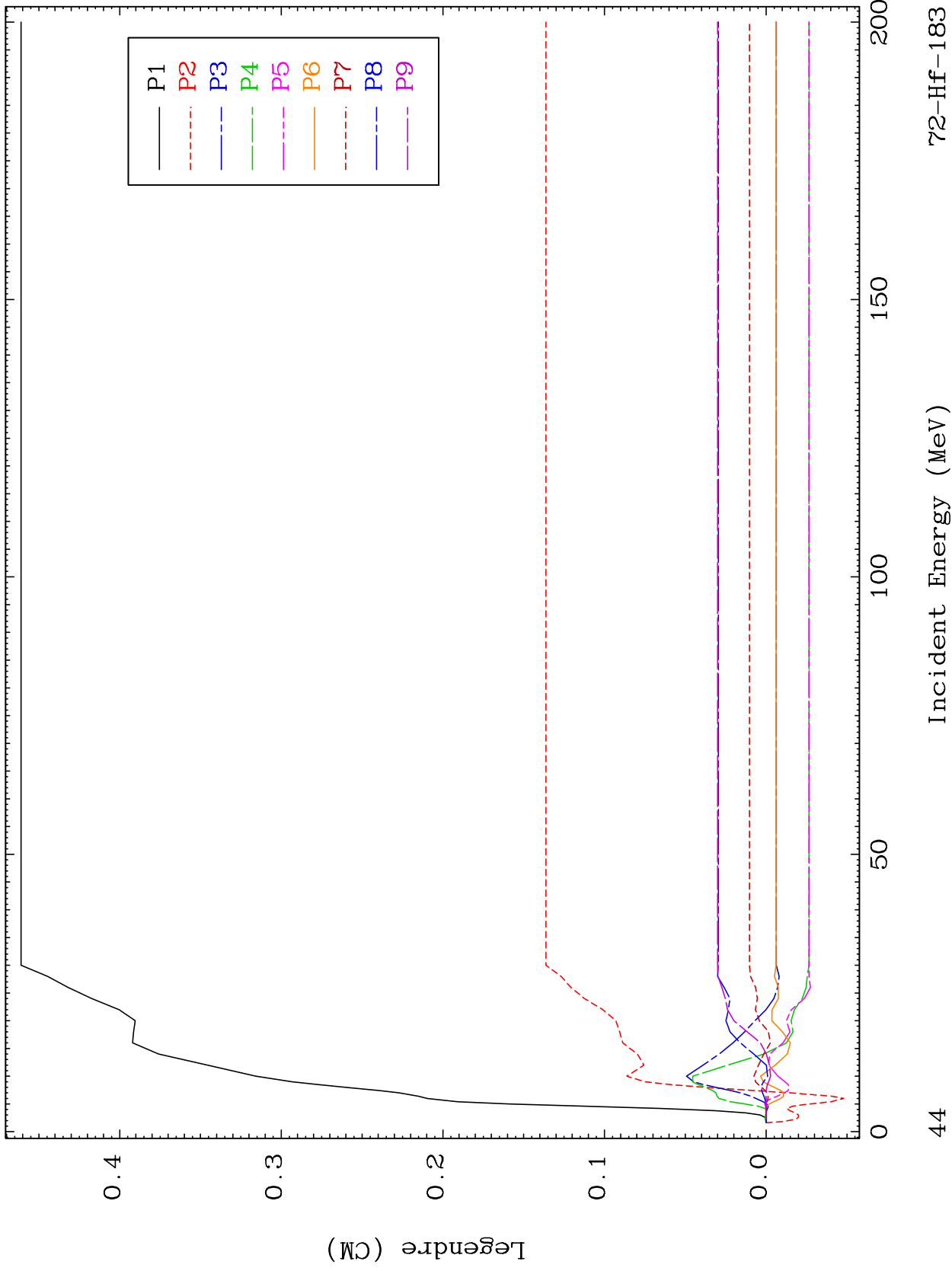
72-Hf-183



MAT 7252

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

72-Hf-183



72-Hf-183

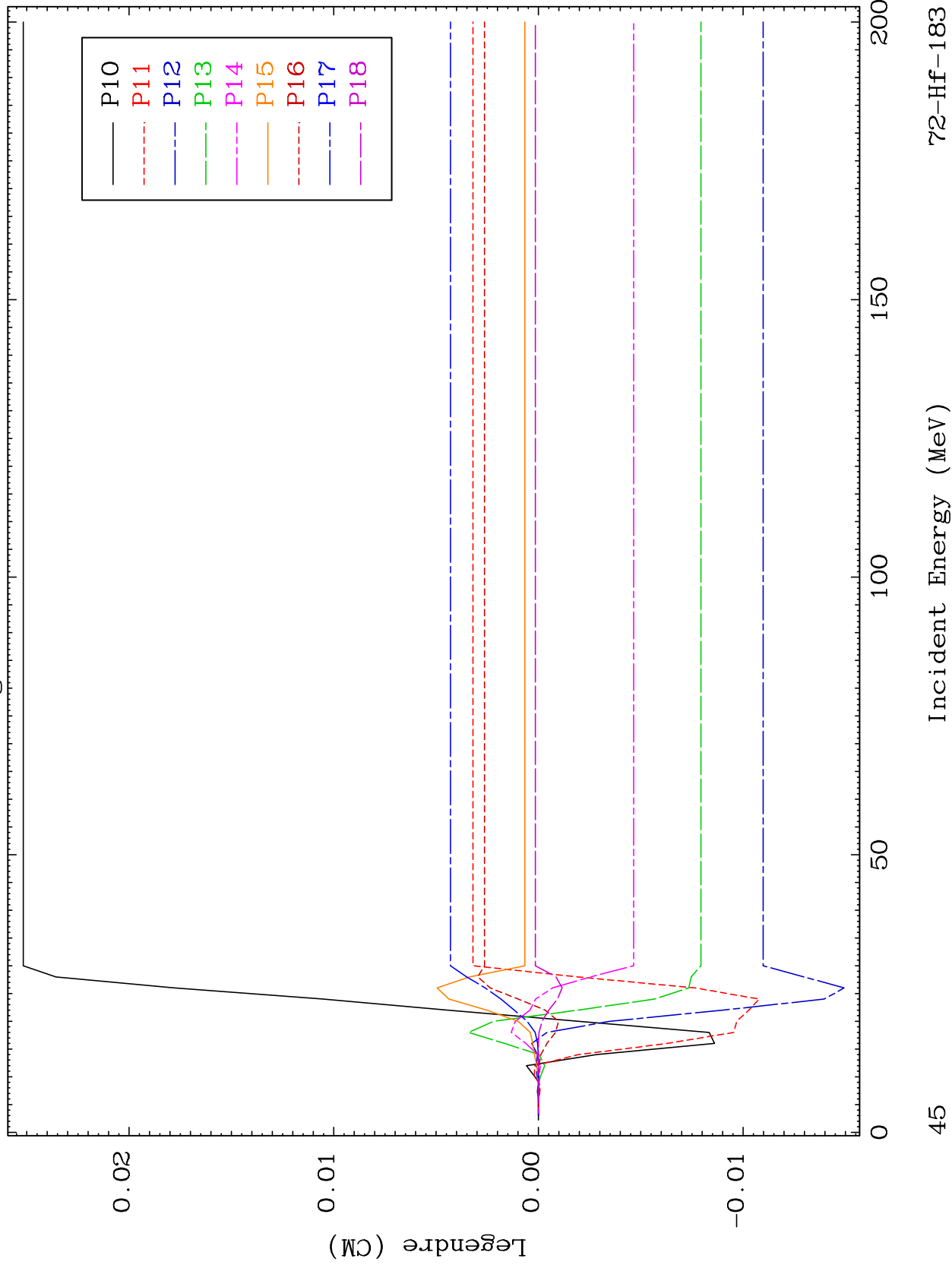
Incident Energy (MeV)

44

MAT 7252

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

72-Hf-183



72-Hf-183

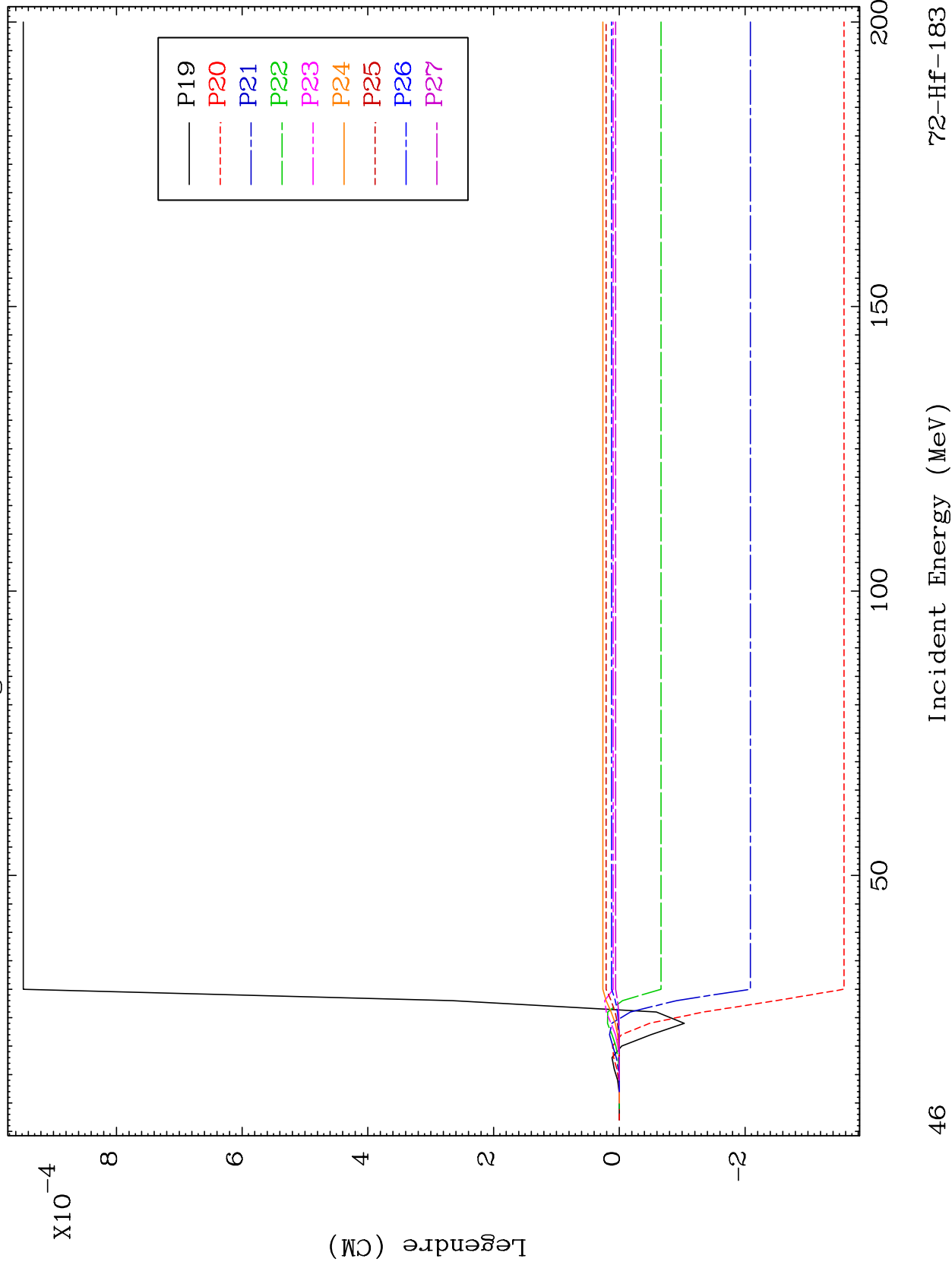
Incident Energy (MeV)

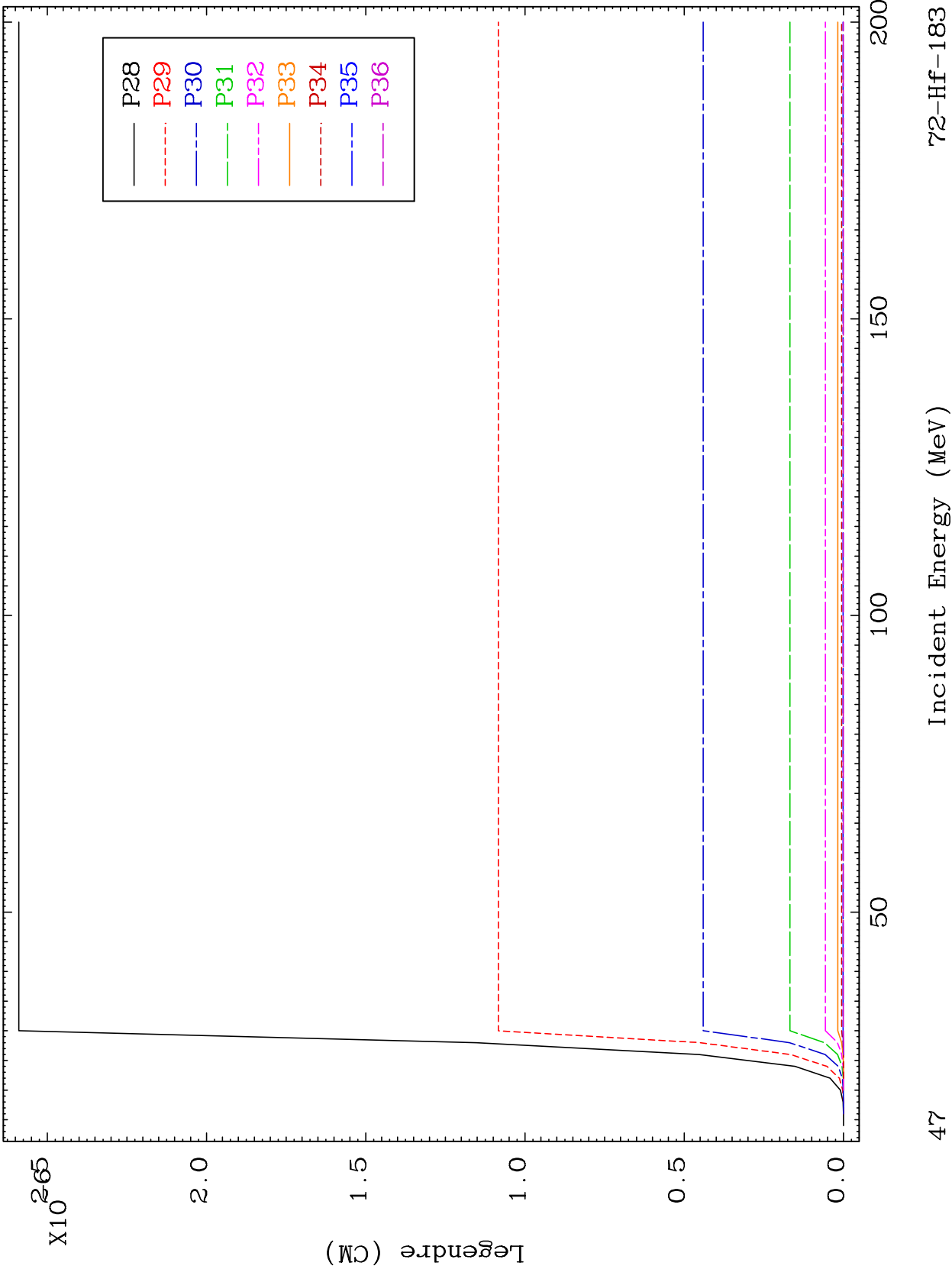
45

MAT 7252

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

72-Hf-183



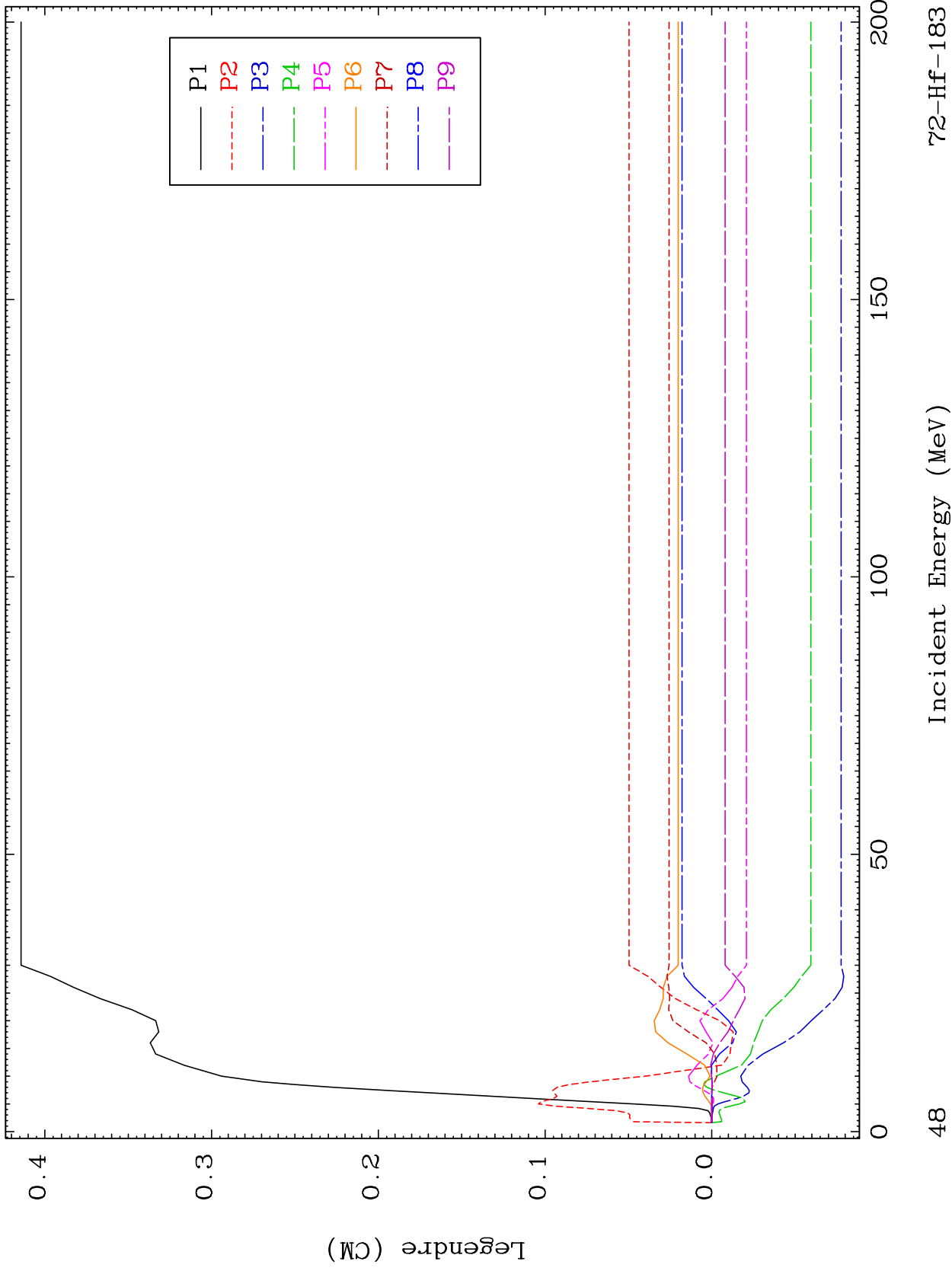




MAT 7252

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

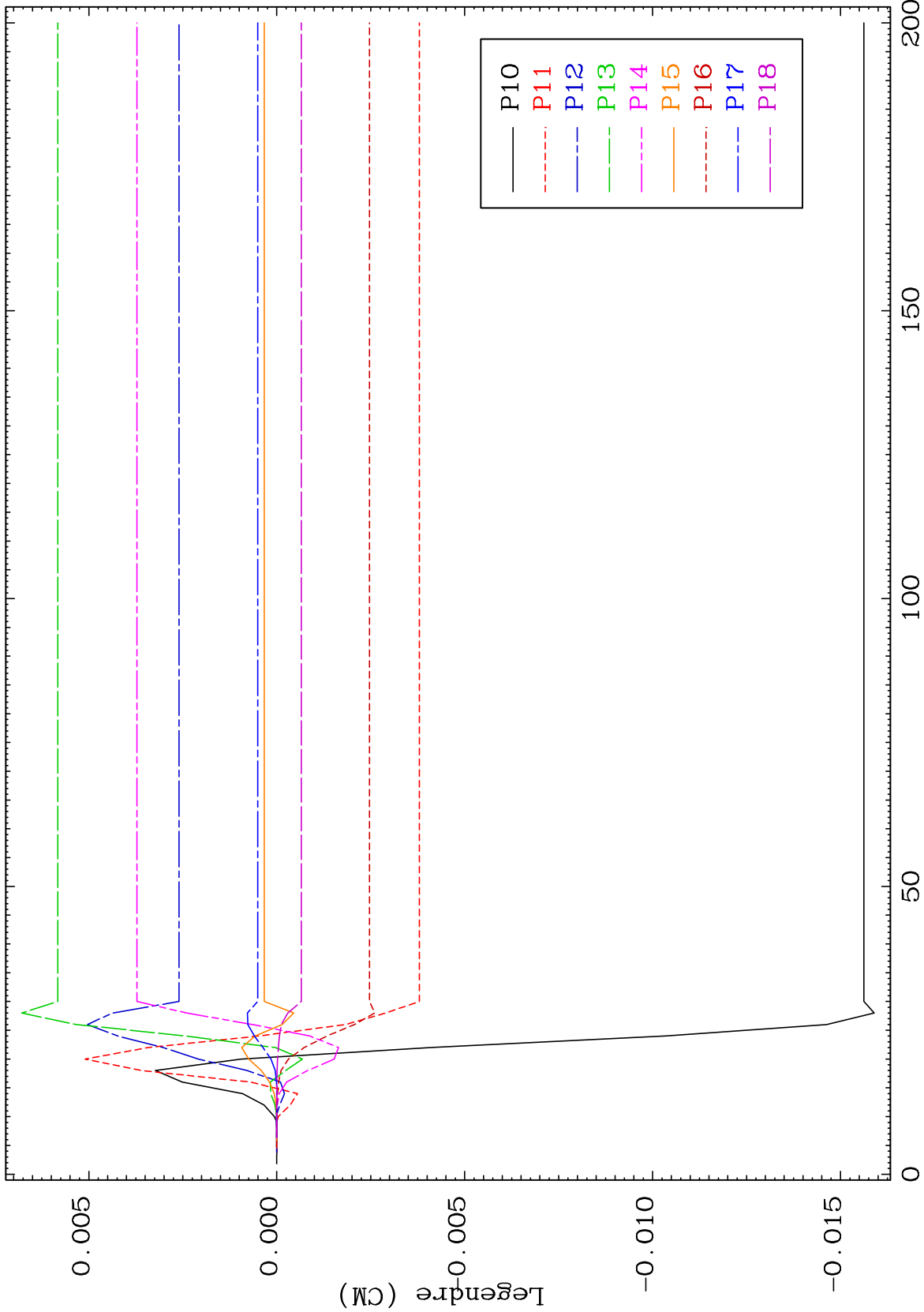
72-Hf-183



72-Hf-183

Incident Energy (MeV)

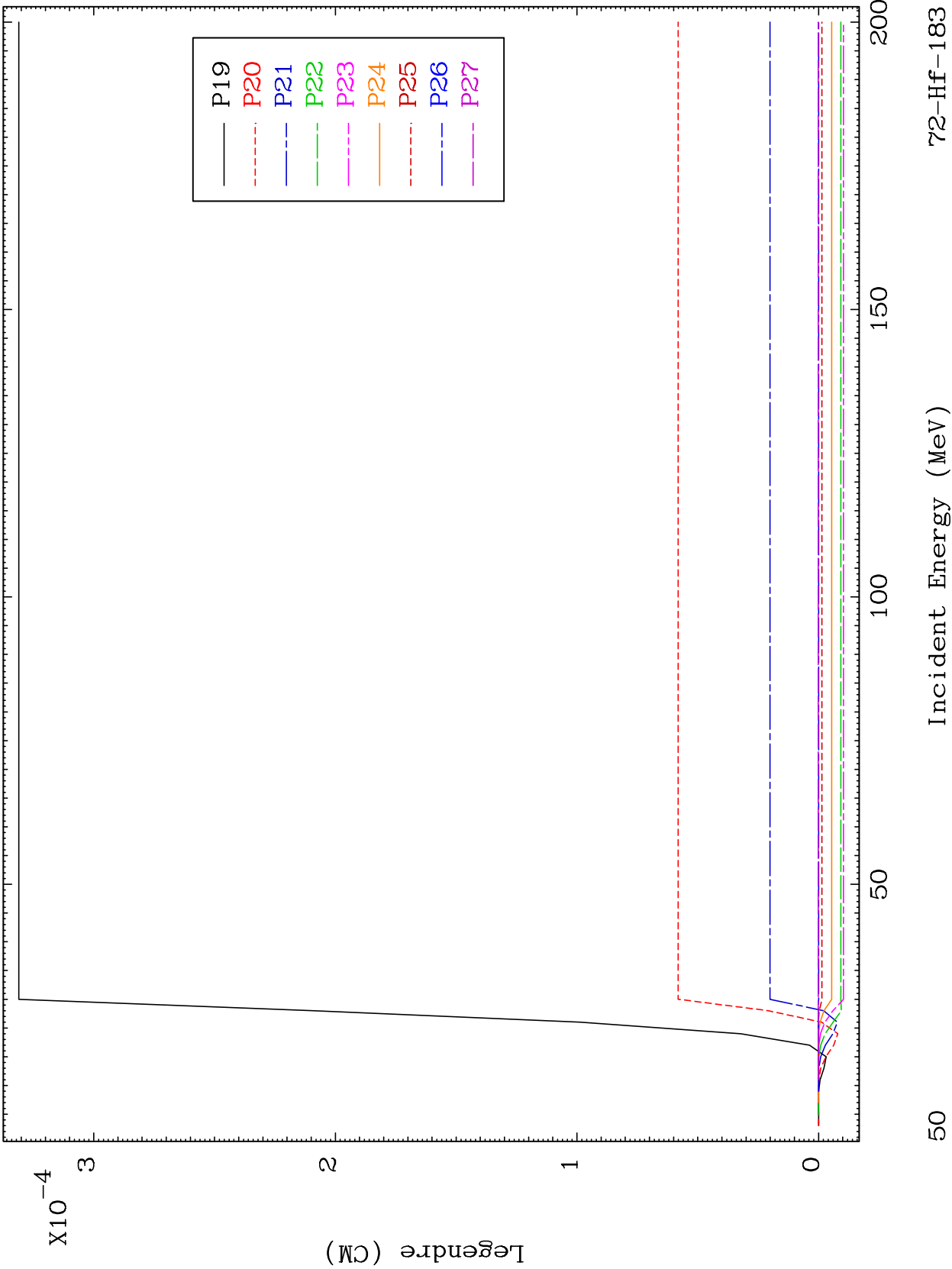
48



MAT 7252

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

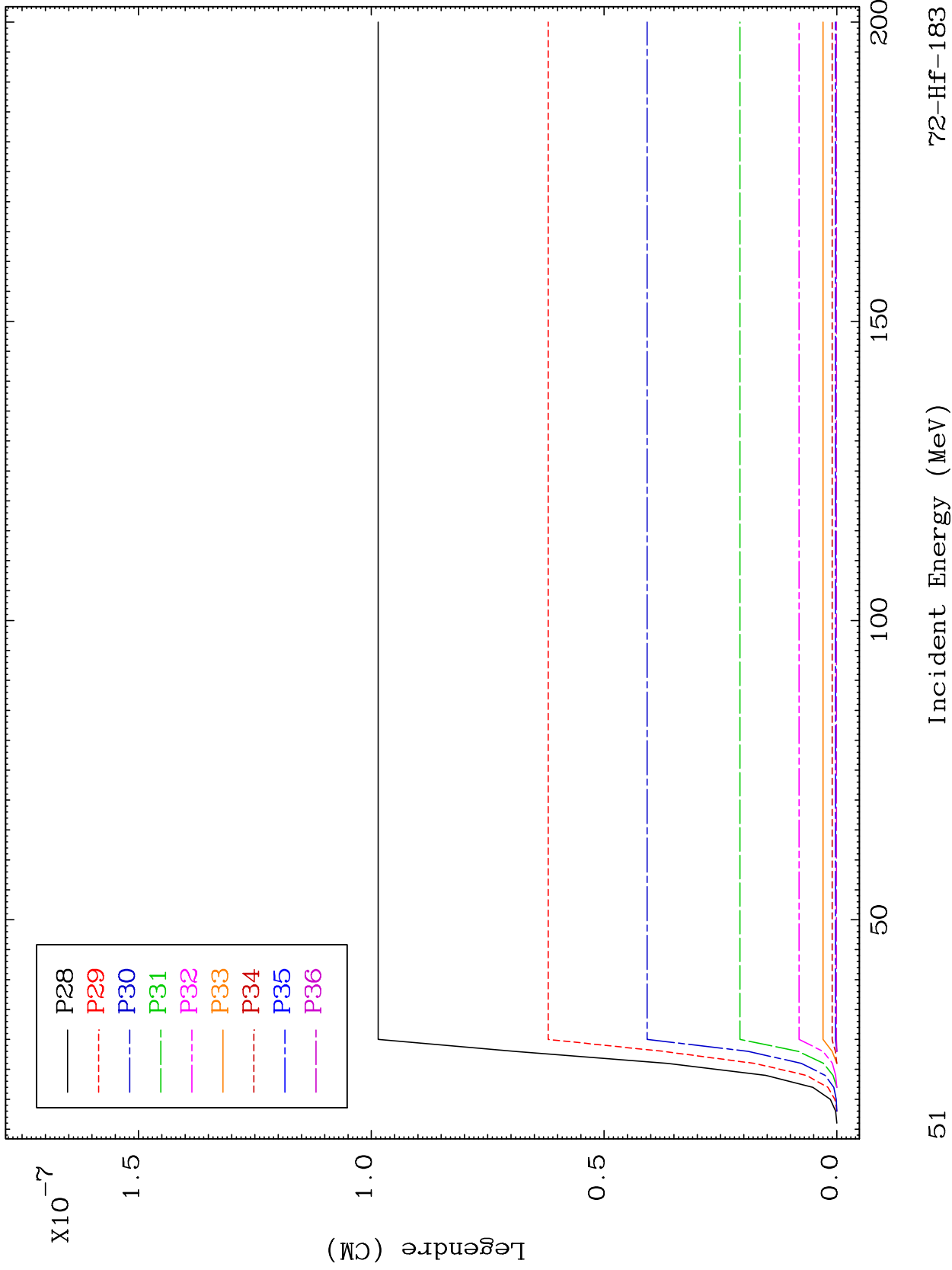
72-Hf-183



72-Hf-183

Incident Energy (MeV)

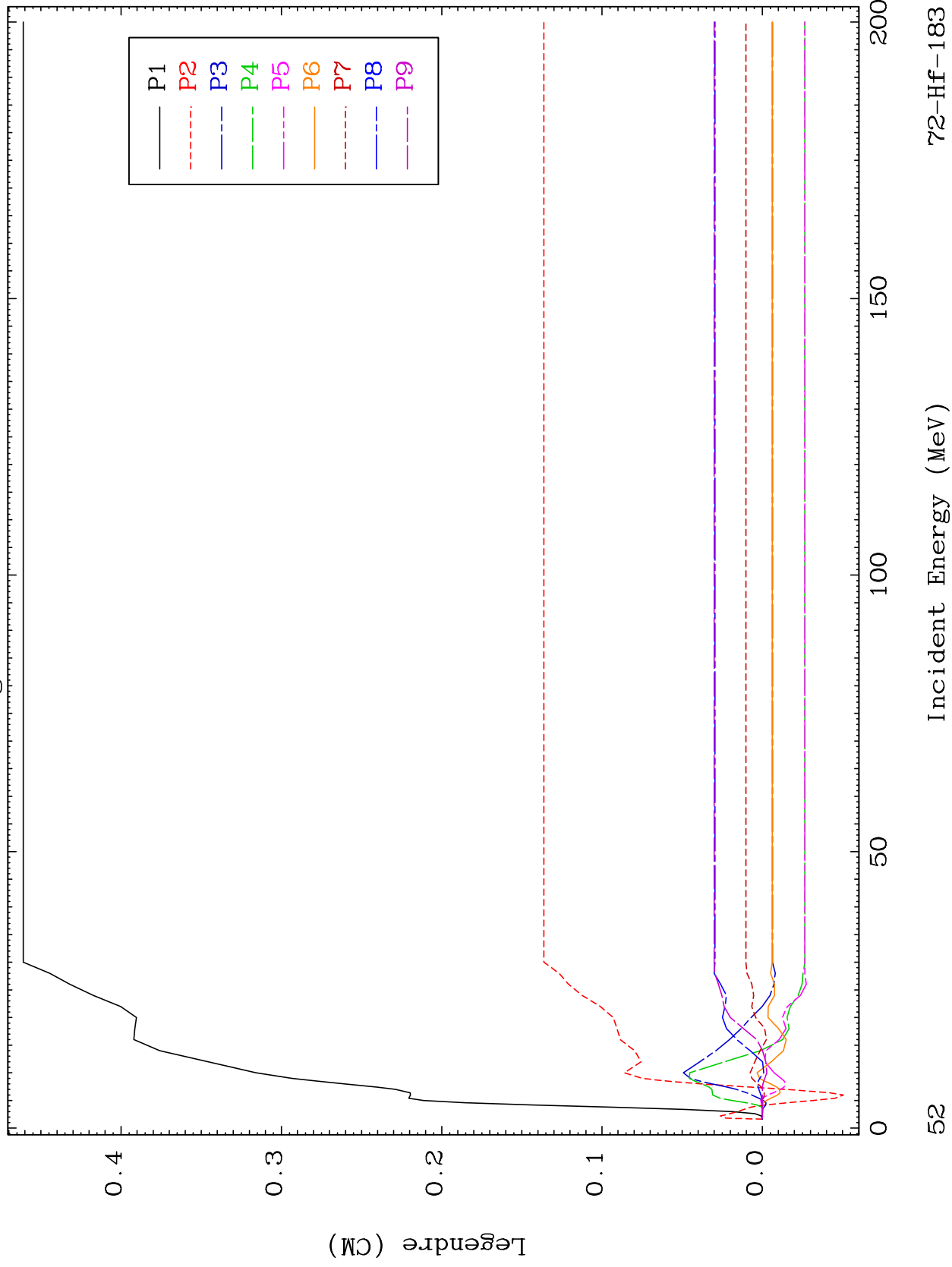
50



MAT 7252

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

72-Hf-183



72-Hf-183

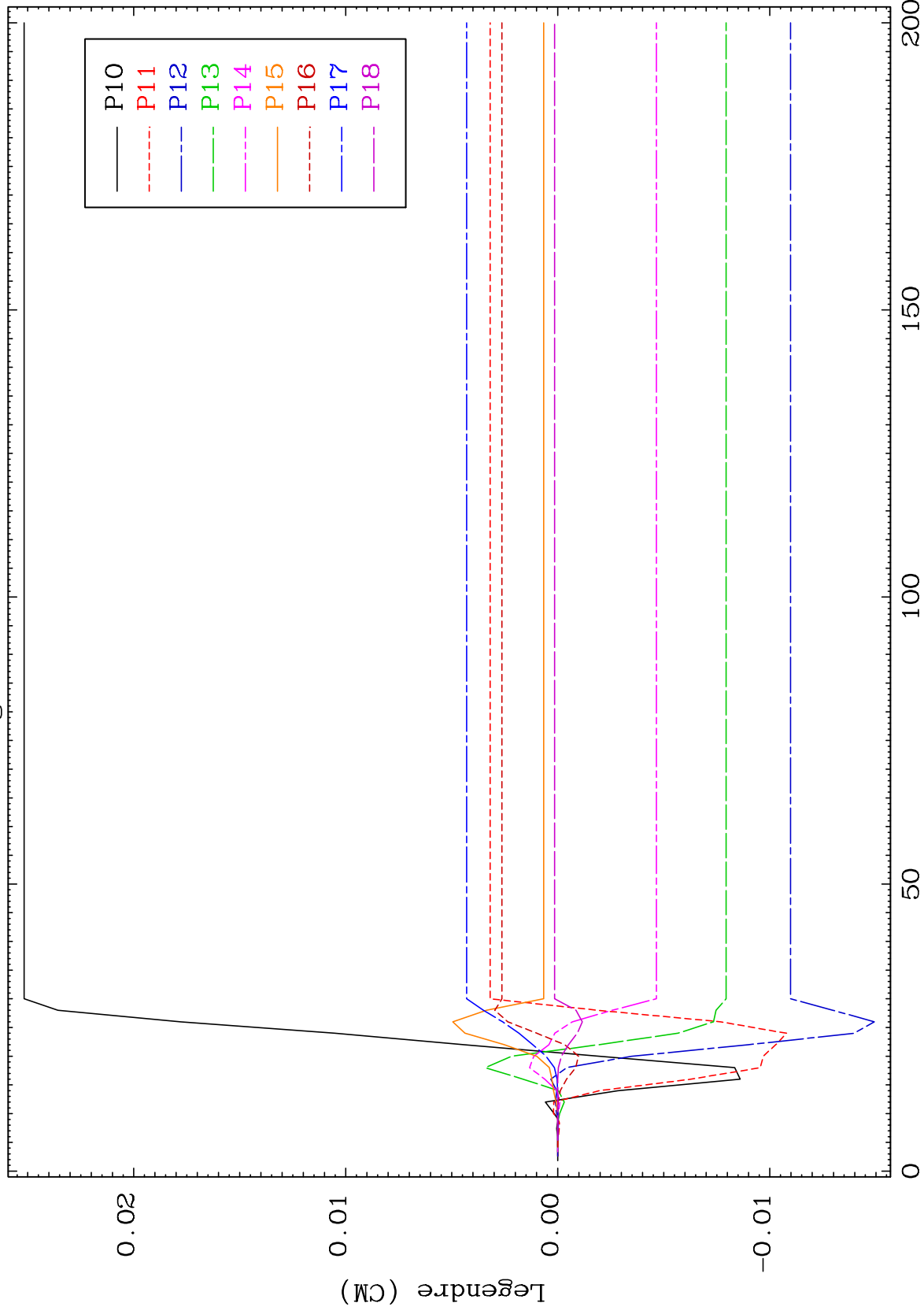
Incident Energy (MeV)

52

MAT 7252

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

72-Hf-183



53

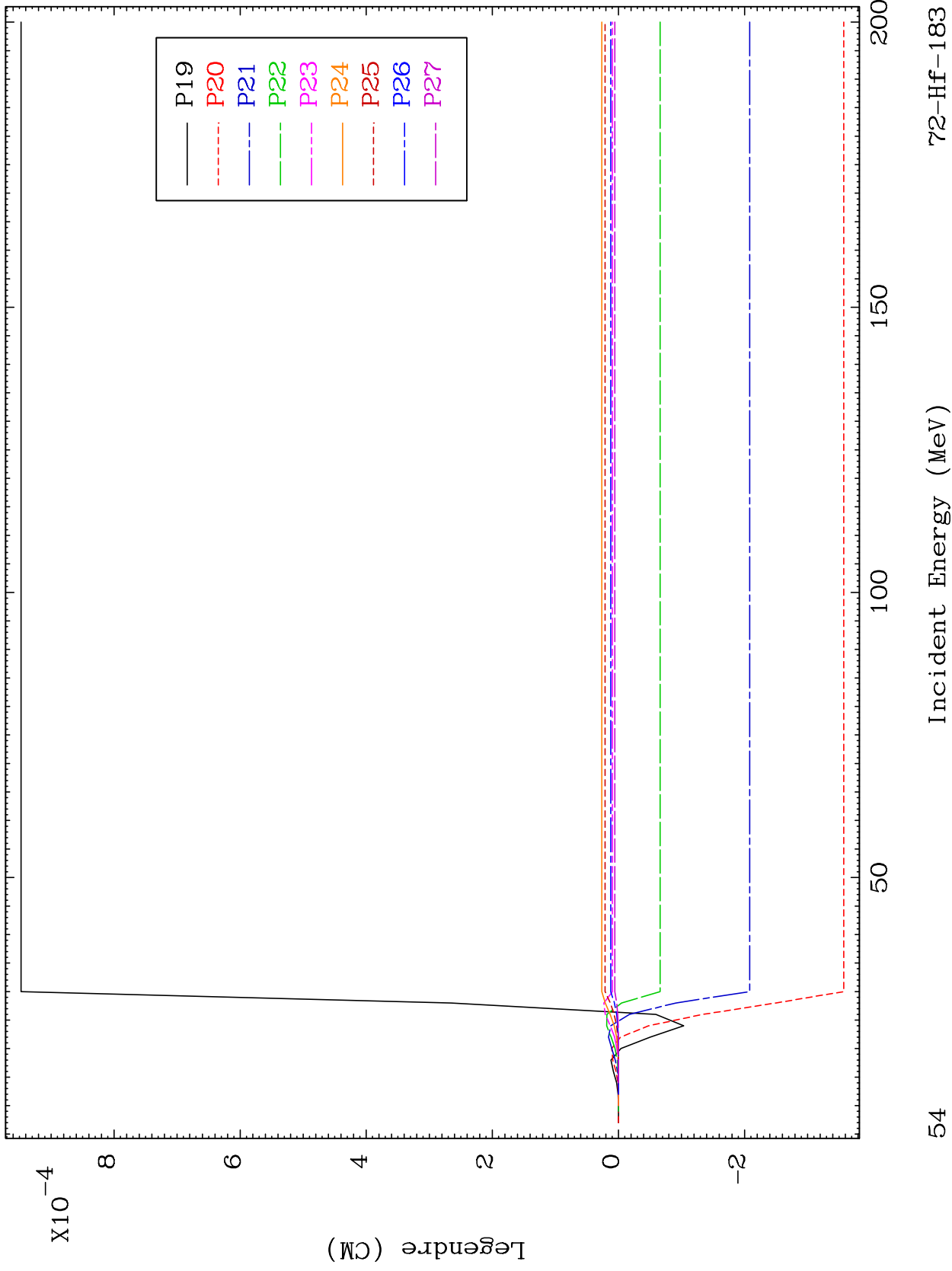
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



54

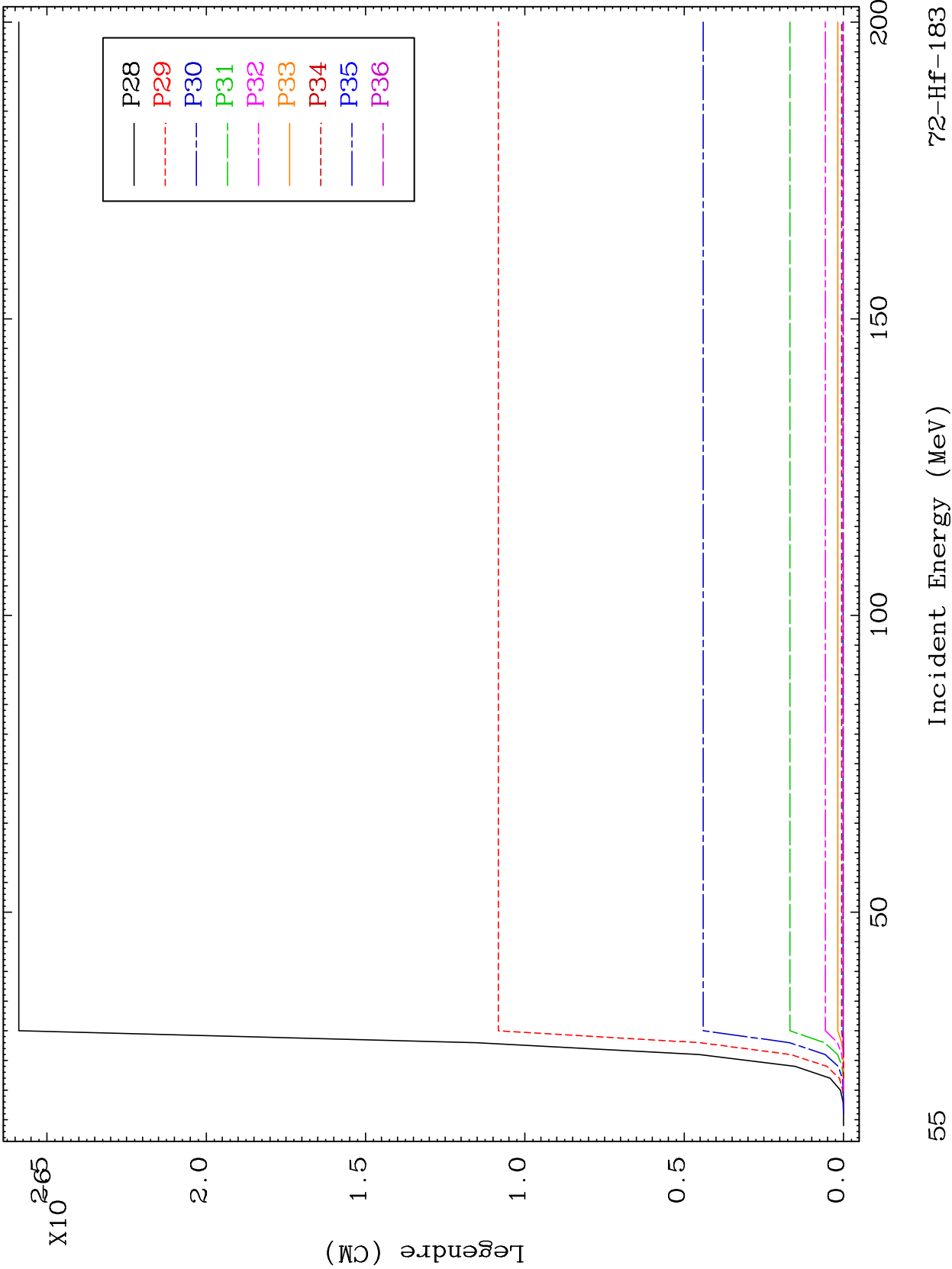
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



55

Incident Energy (MeV)

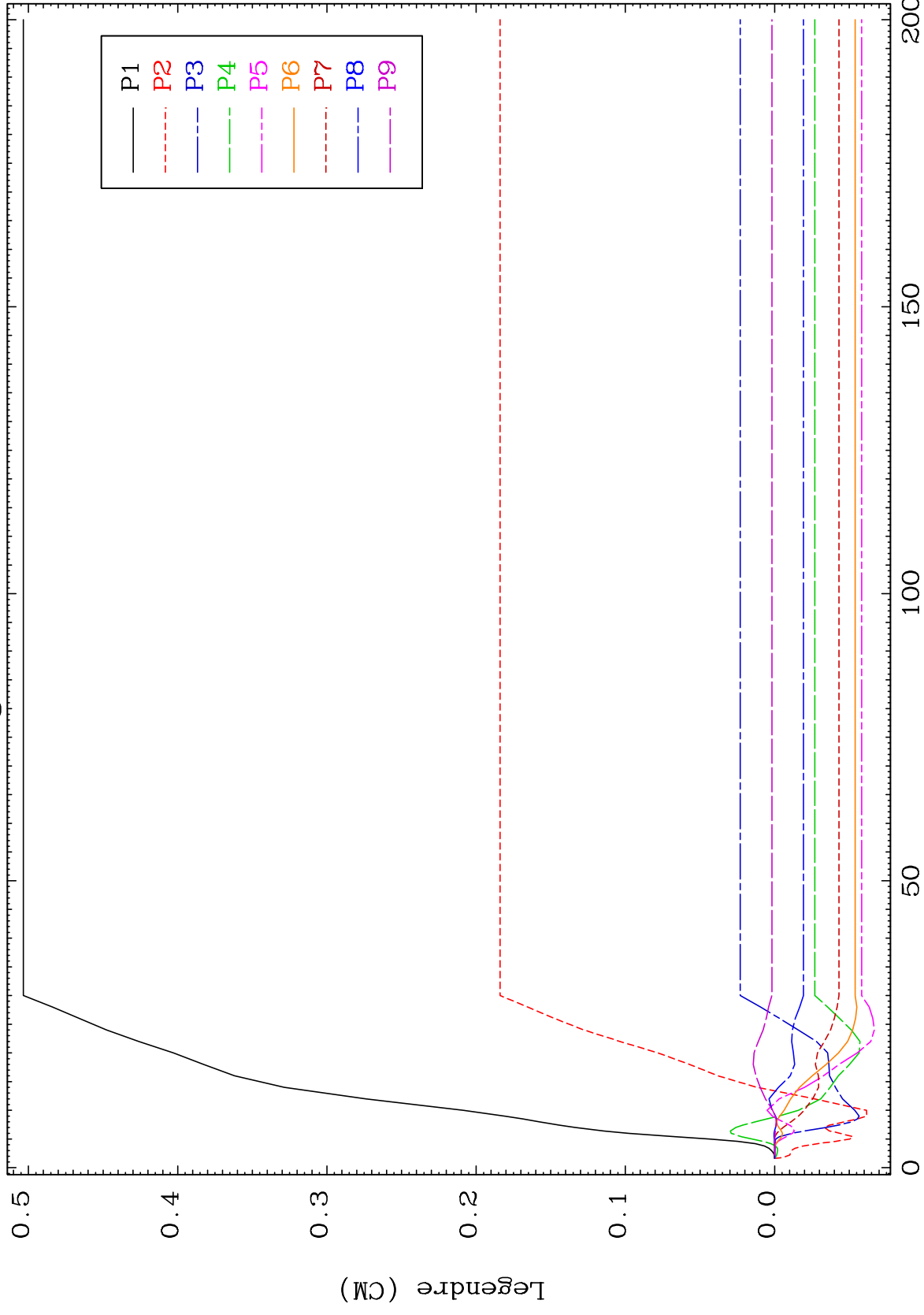
72-Hf-183



MAT 7252

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

72-Hf-183



56

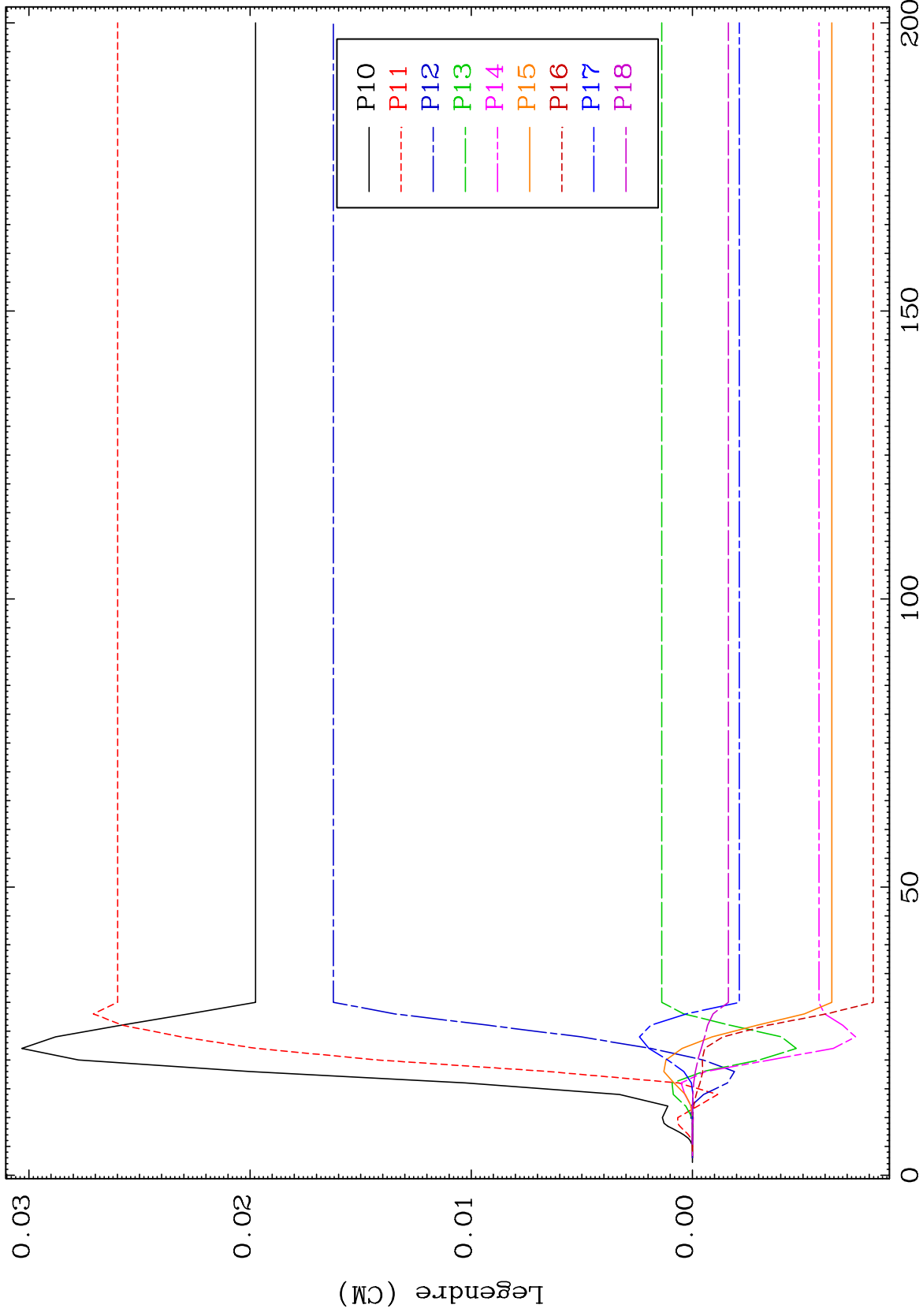
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

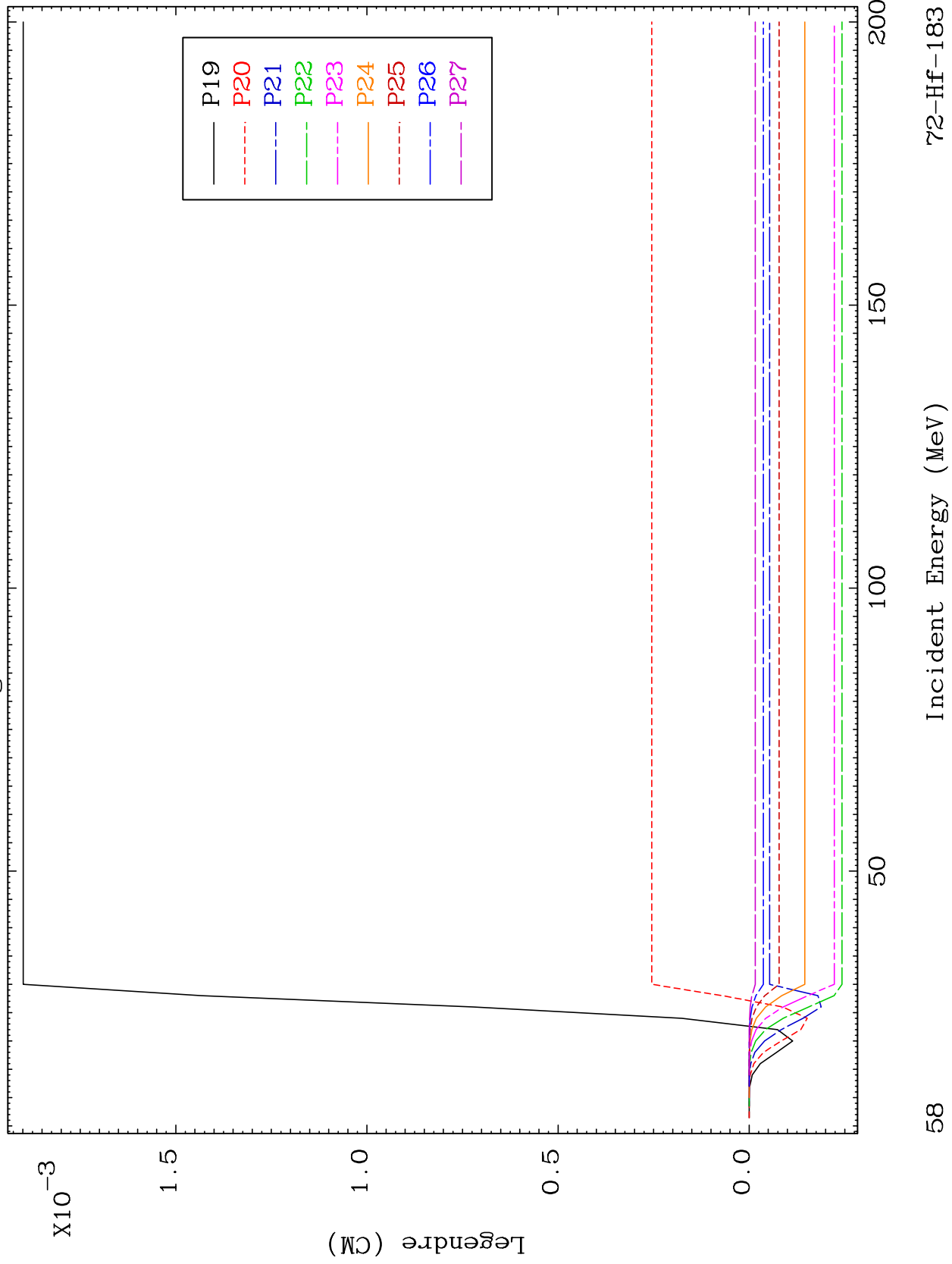
72-Hf-183



MAT 7252

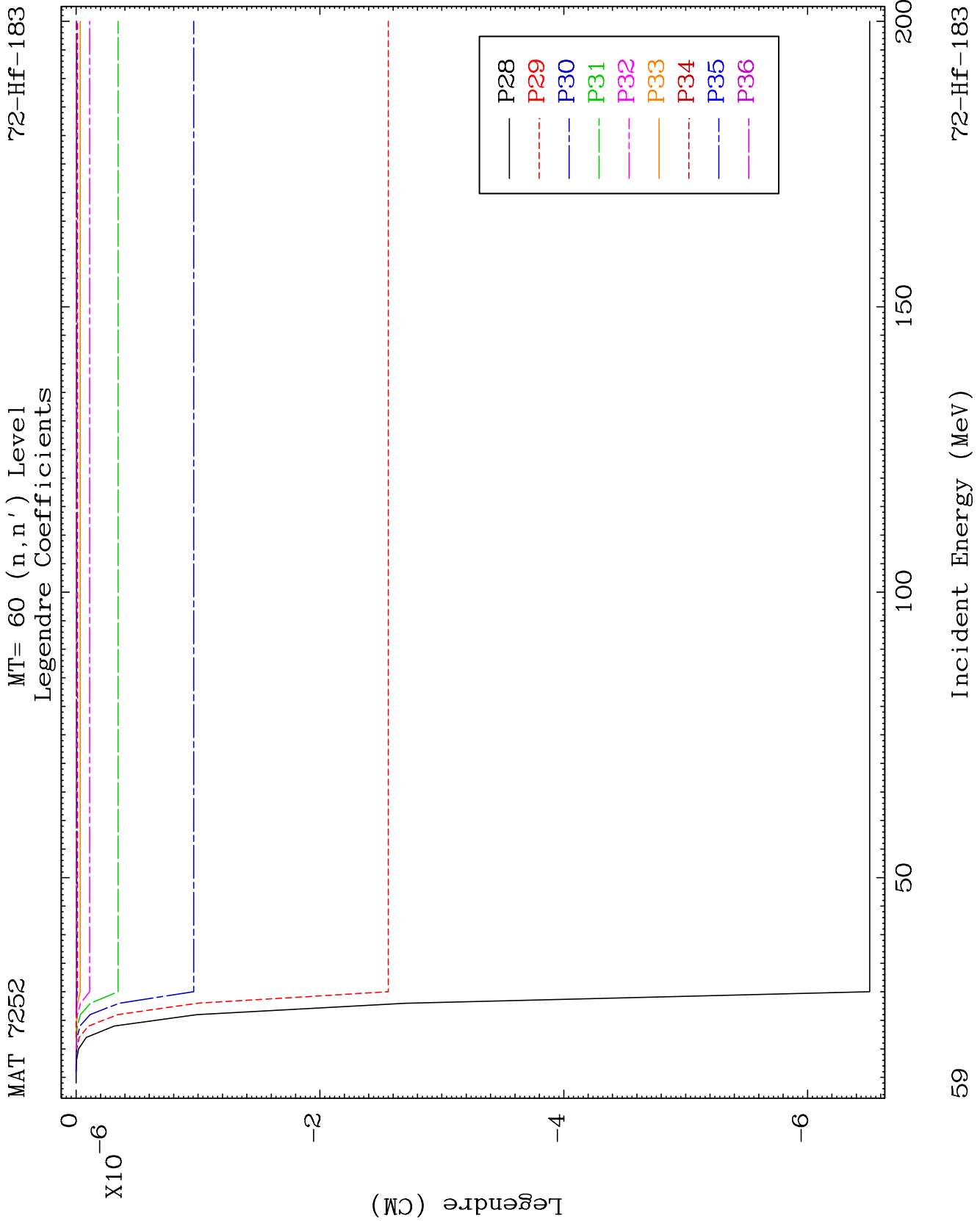
MT= 60 (n,n') Level  
Legendre Coefficients

72-Hf-183



58

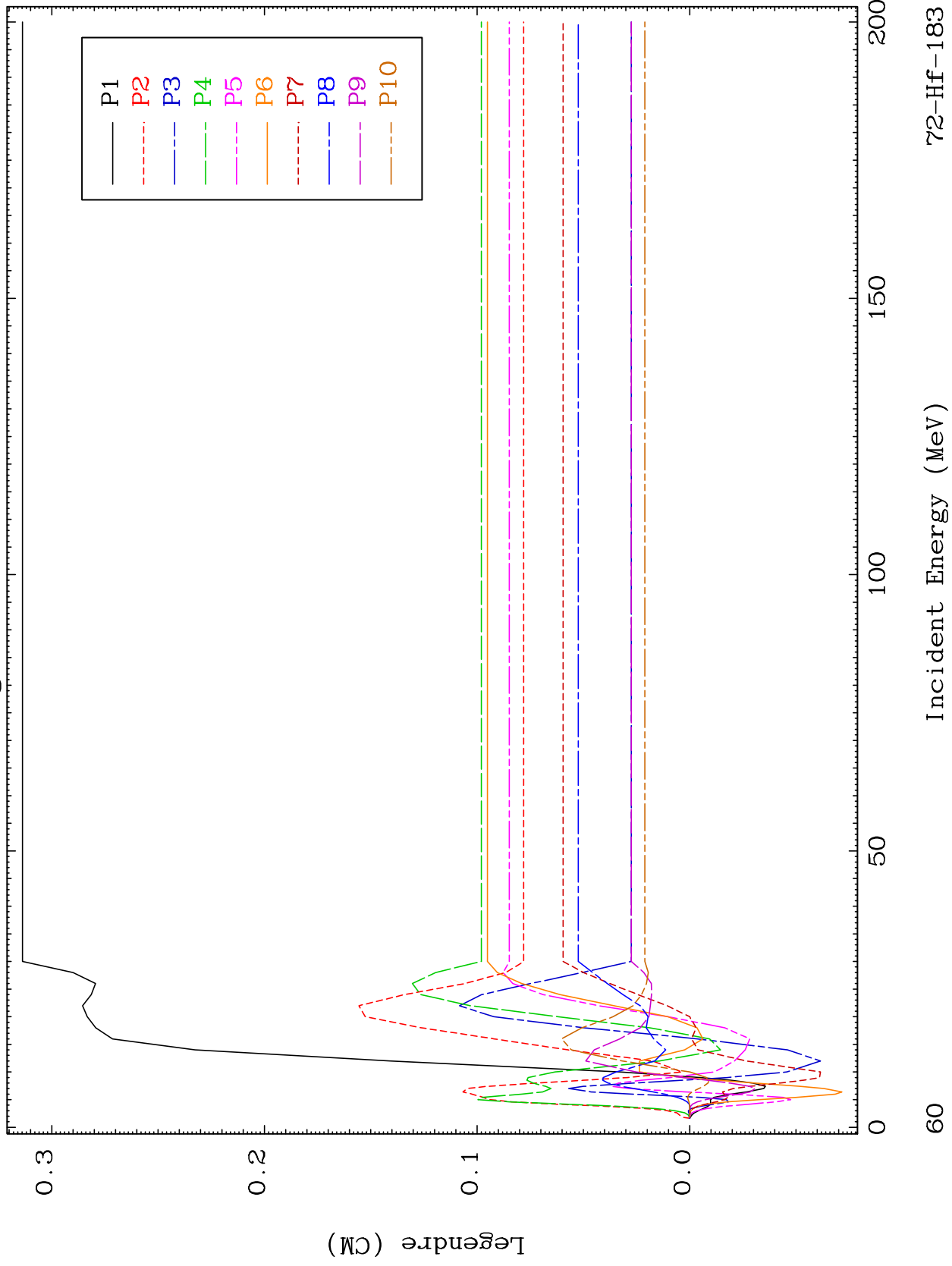
72-Hf-183



MAT 7252

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

72-Hf-183

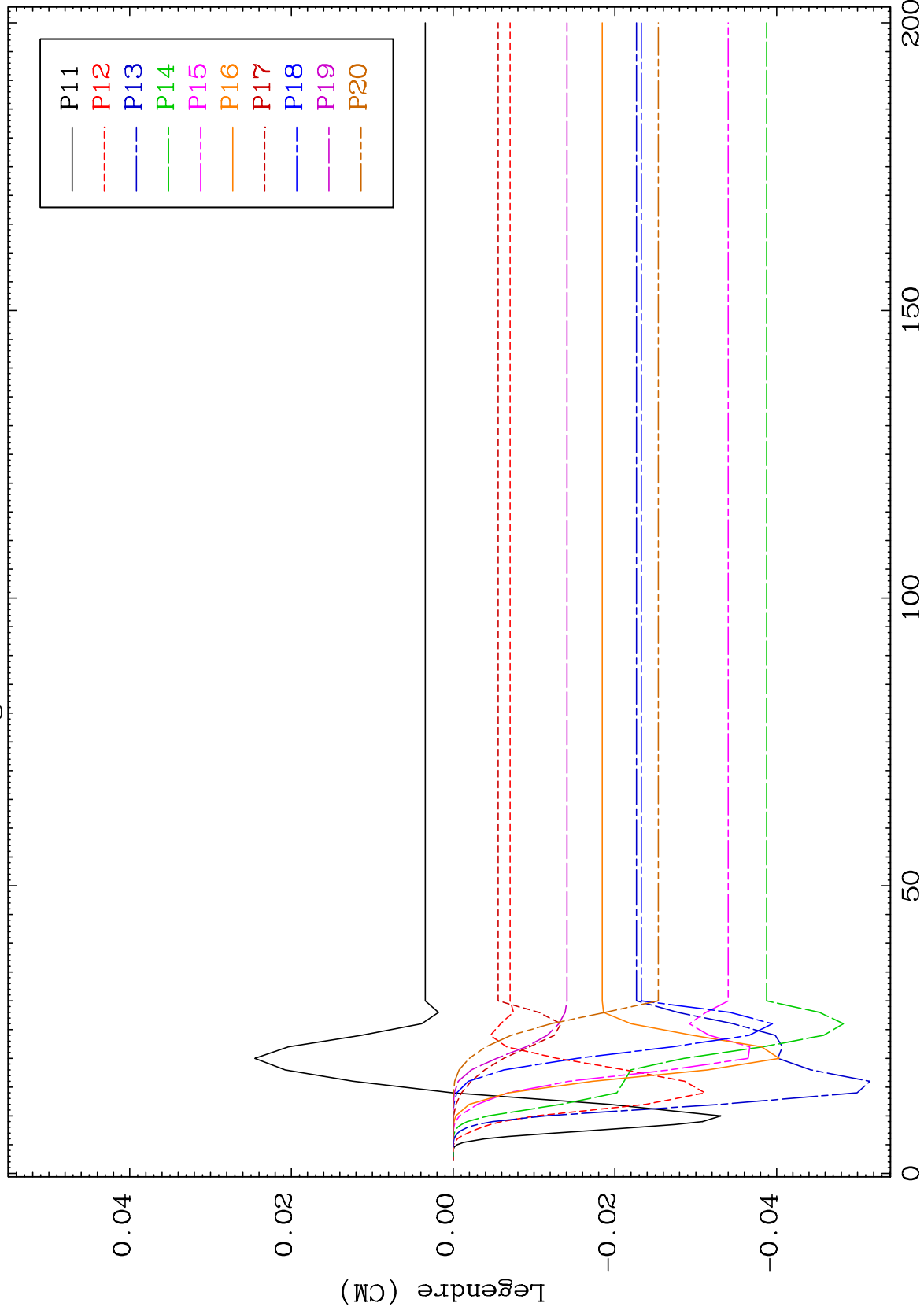


72-Hf-183

MAT 7252

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

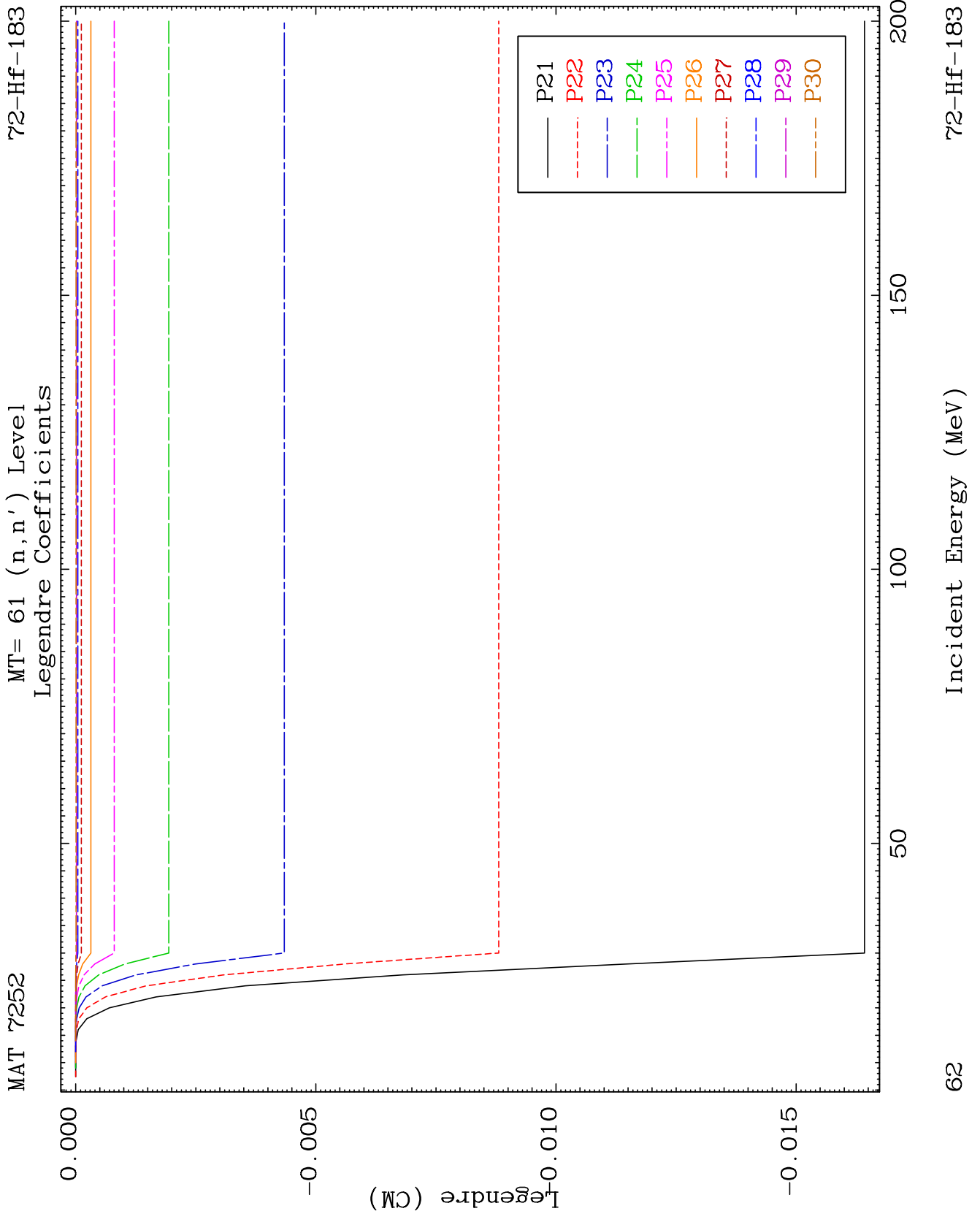
72-Hf-183



61

Incident Energy (MeV)

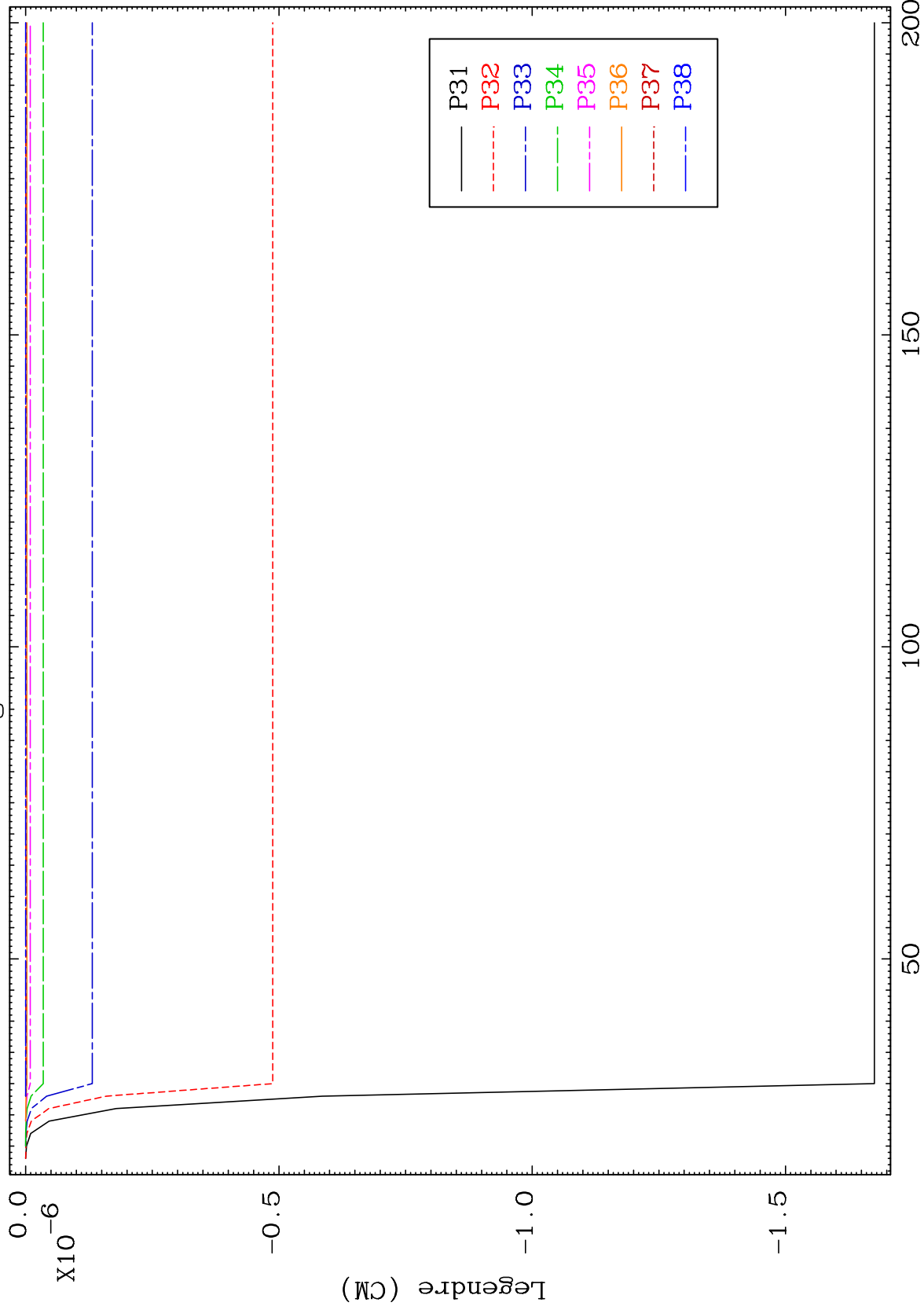
72-Hf-183



MAT 7252

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

72-Hf-183

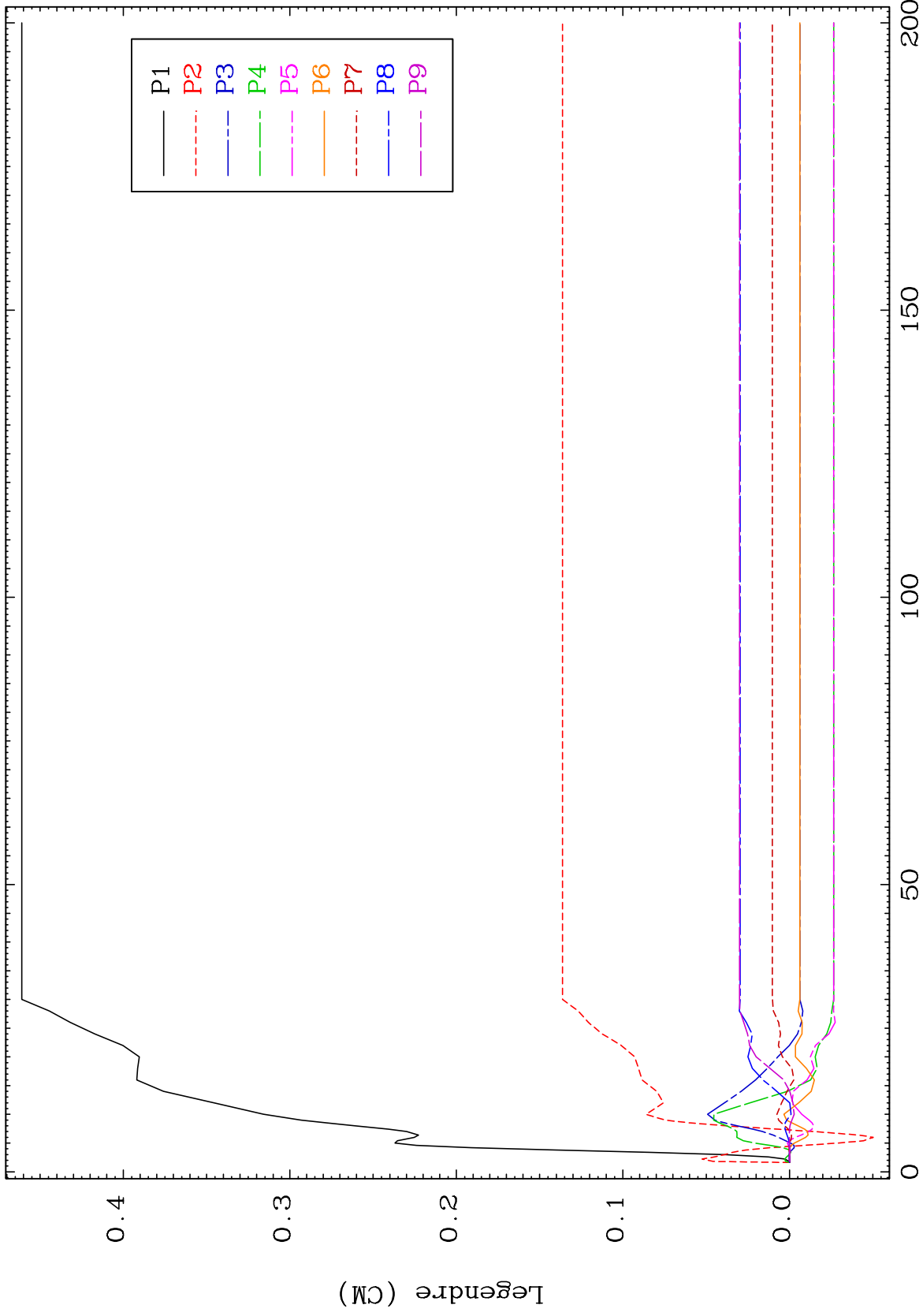


72-Hf-183

Incident Energy (MeV)

63

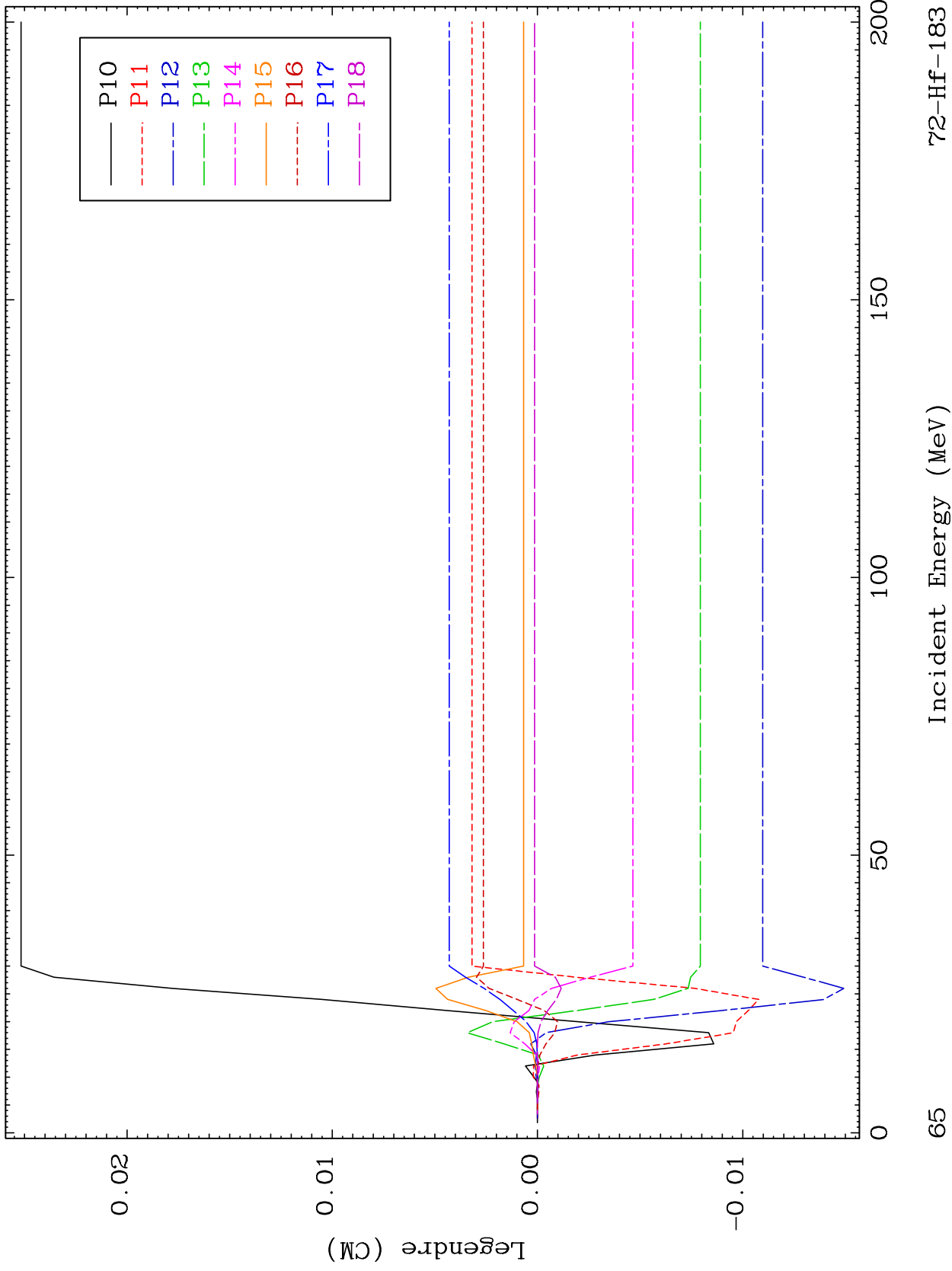




MAT 7252

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

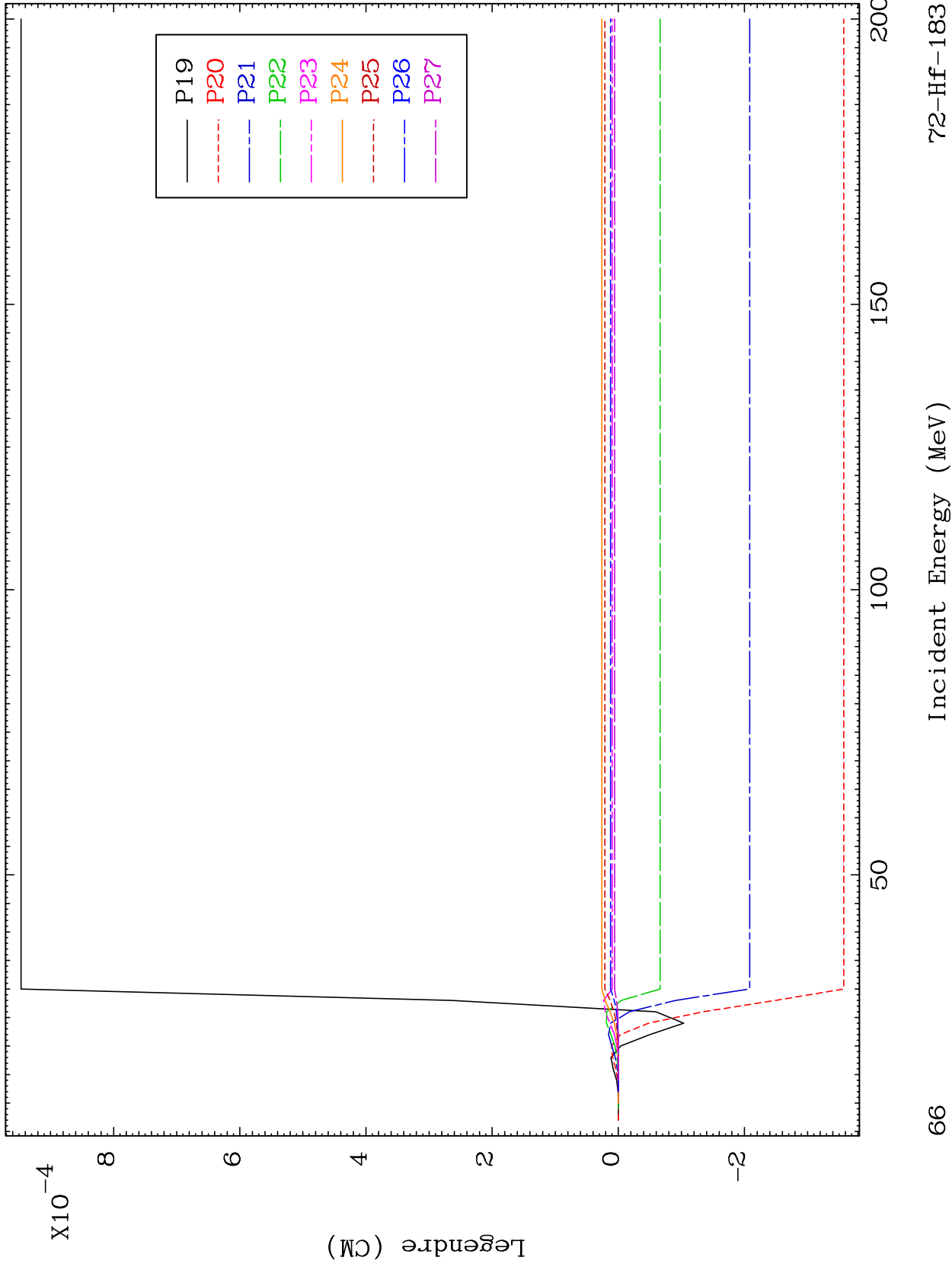
72-Hf-183



72-Hf-183

Incident Energy (MeV)

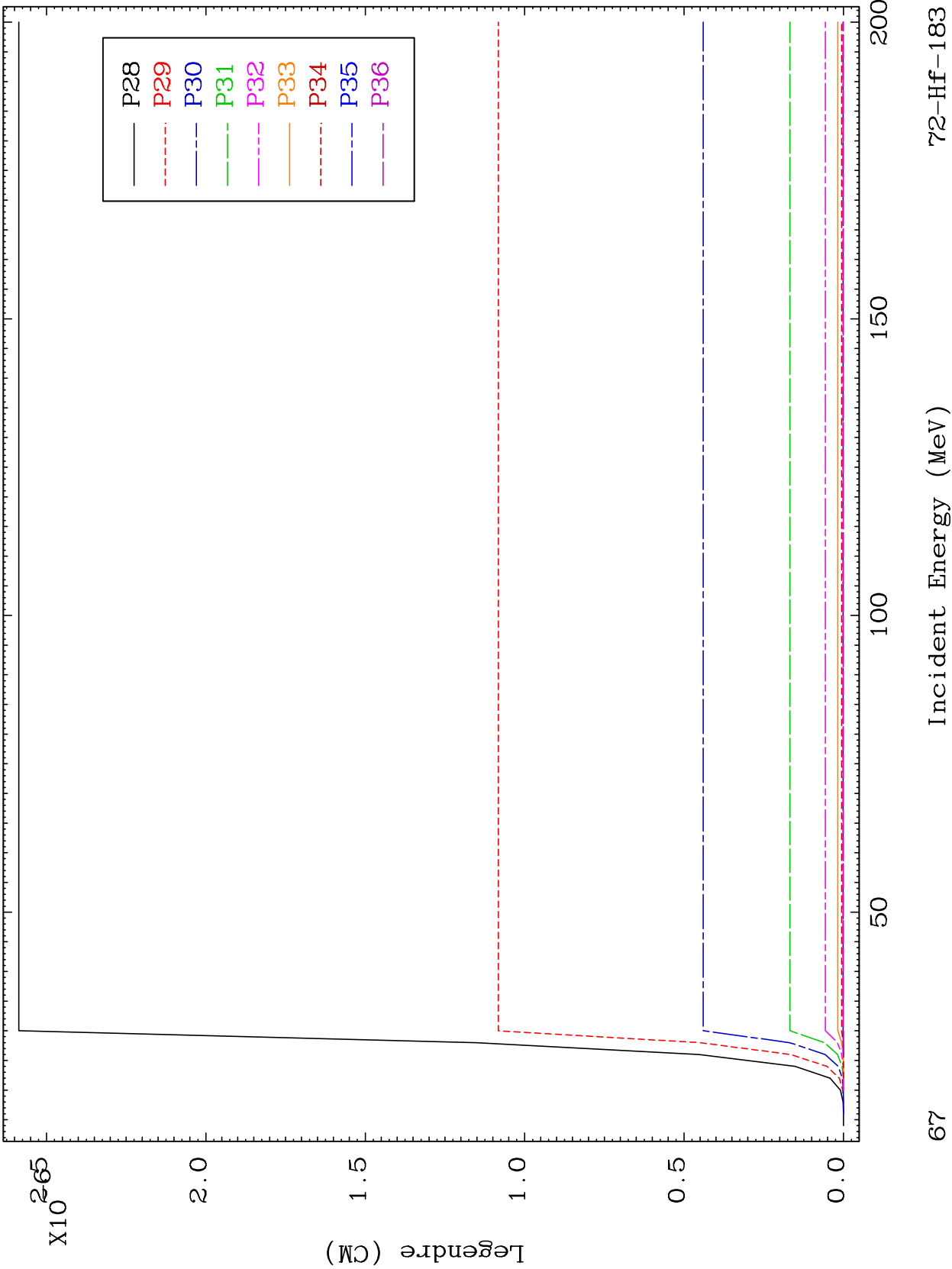
65



MAT 7252

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

72-Hf-183



67

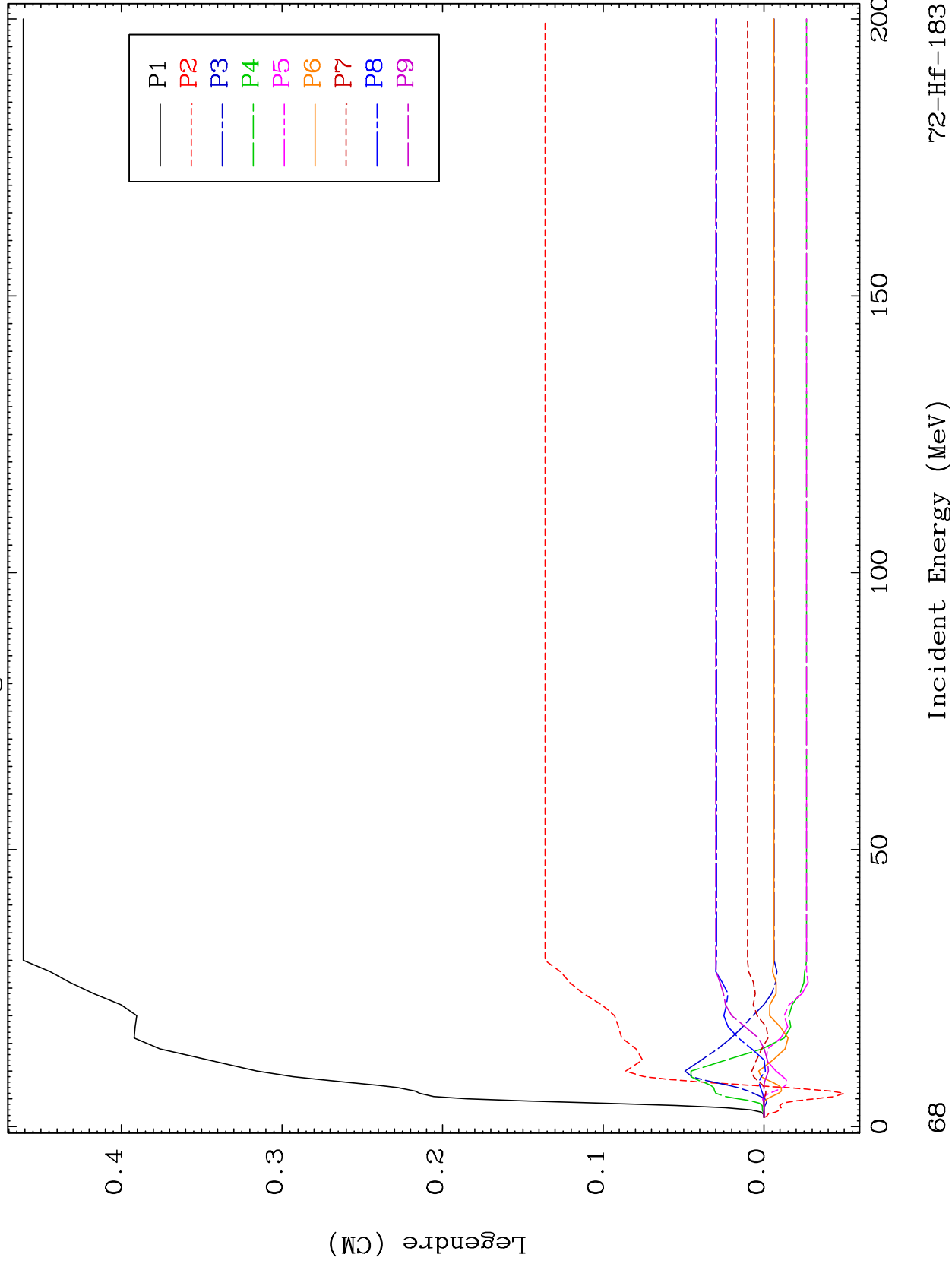
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



72-Hf-183

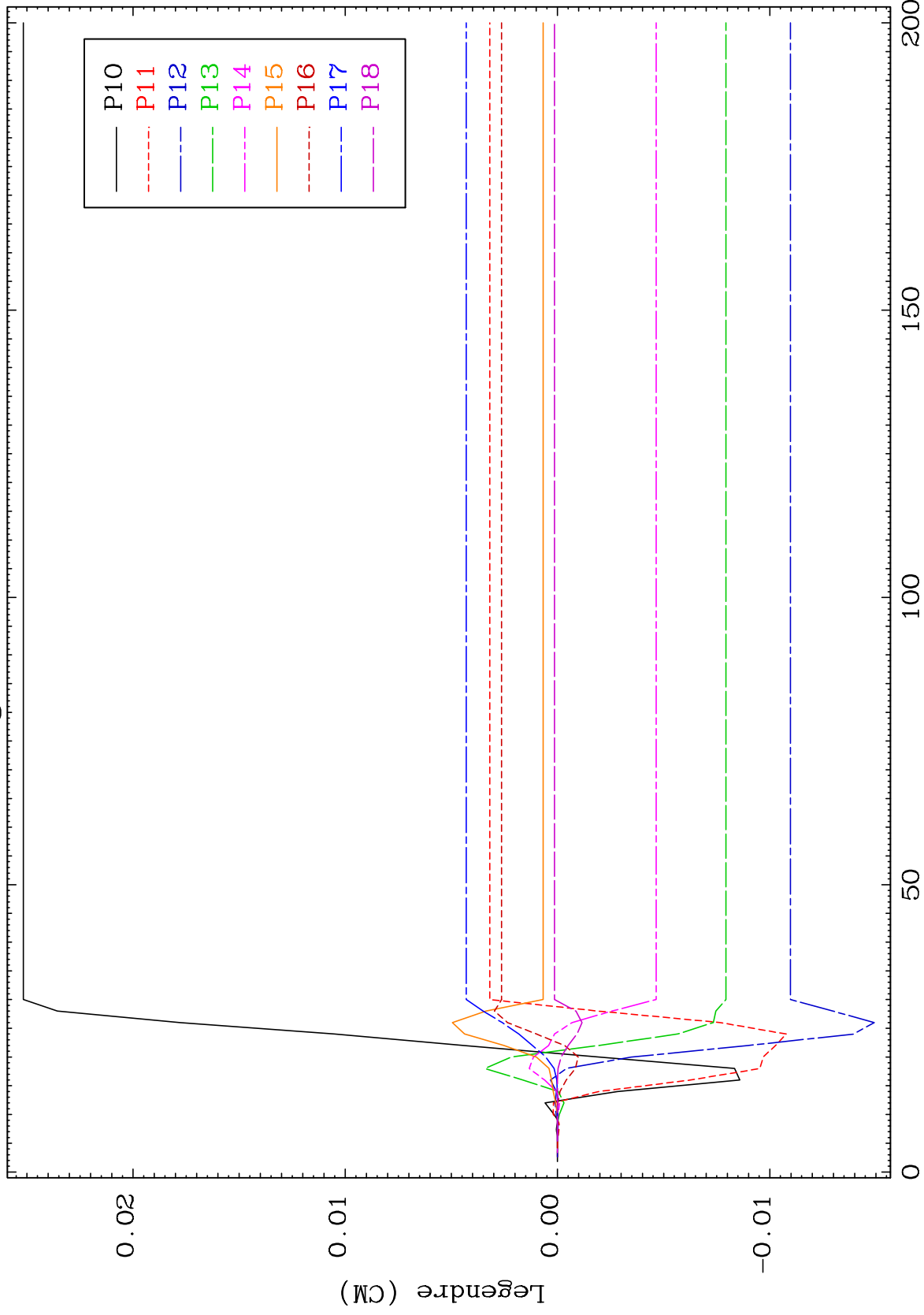
Incident Energy (MeV)

68

MAT 7252

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

72-Hf-183



69

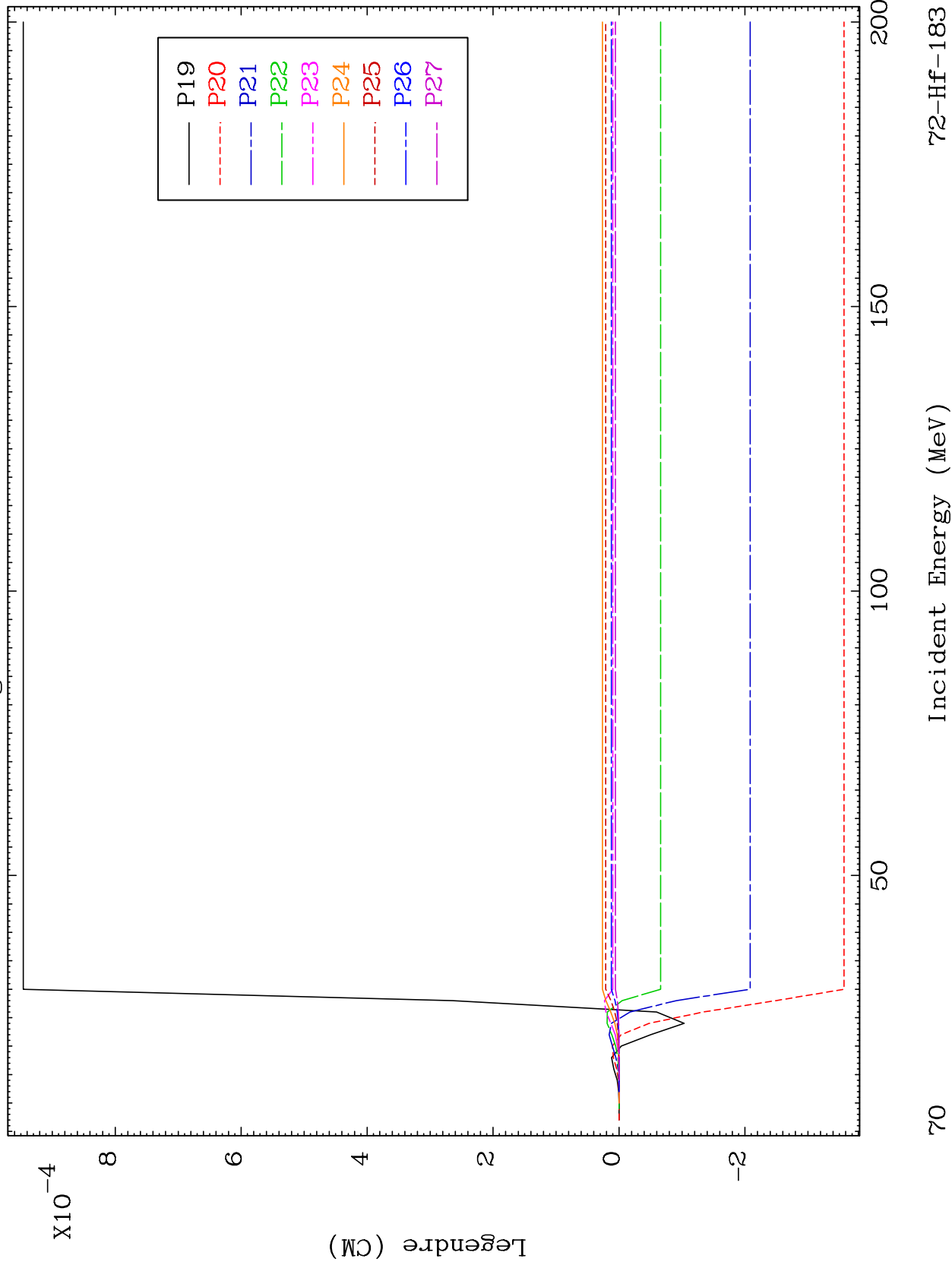
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



70

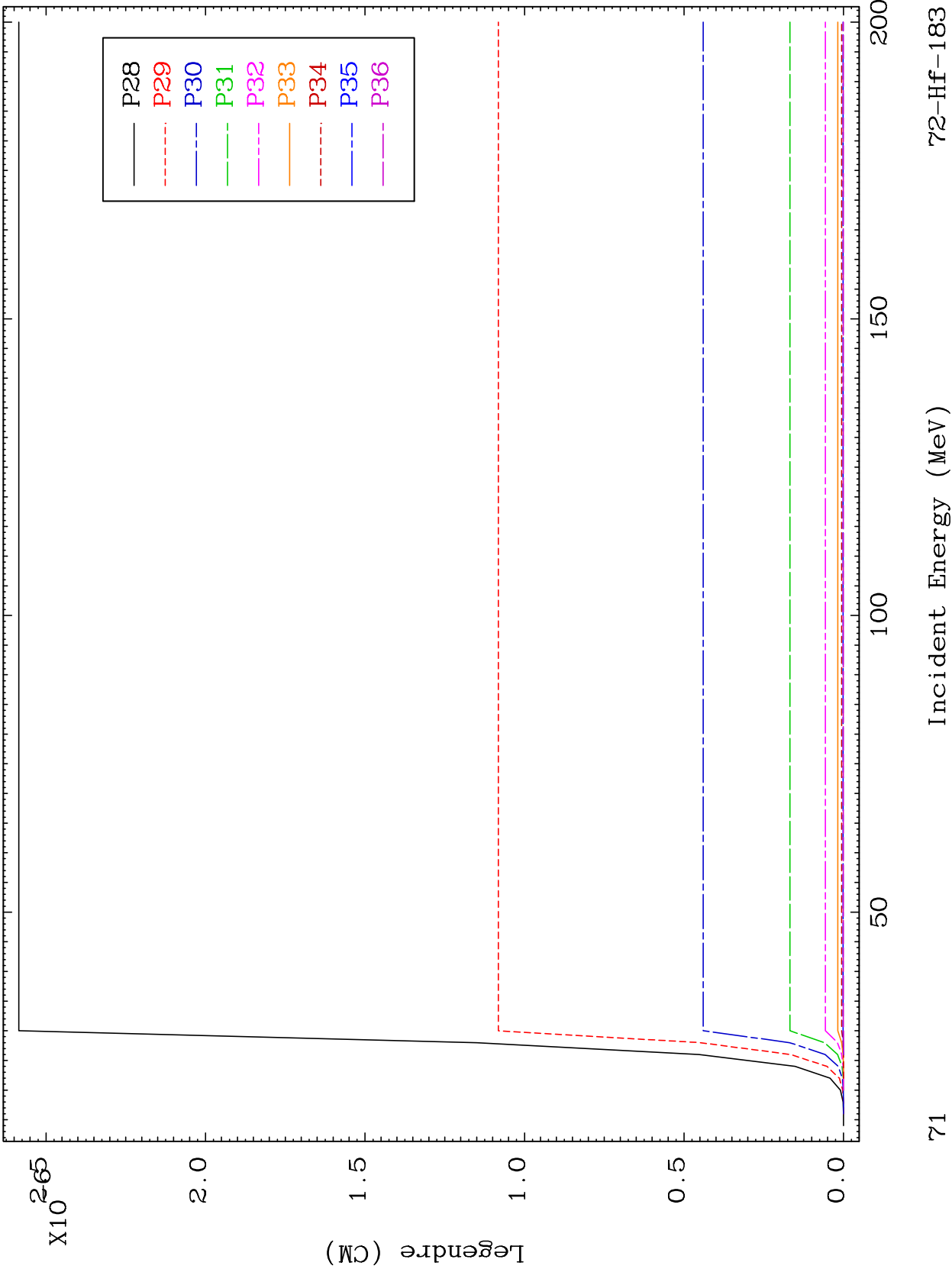
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



71

Incident Energy (MeV)

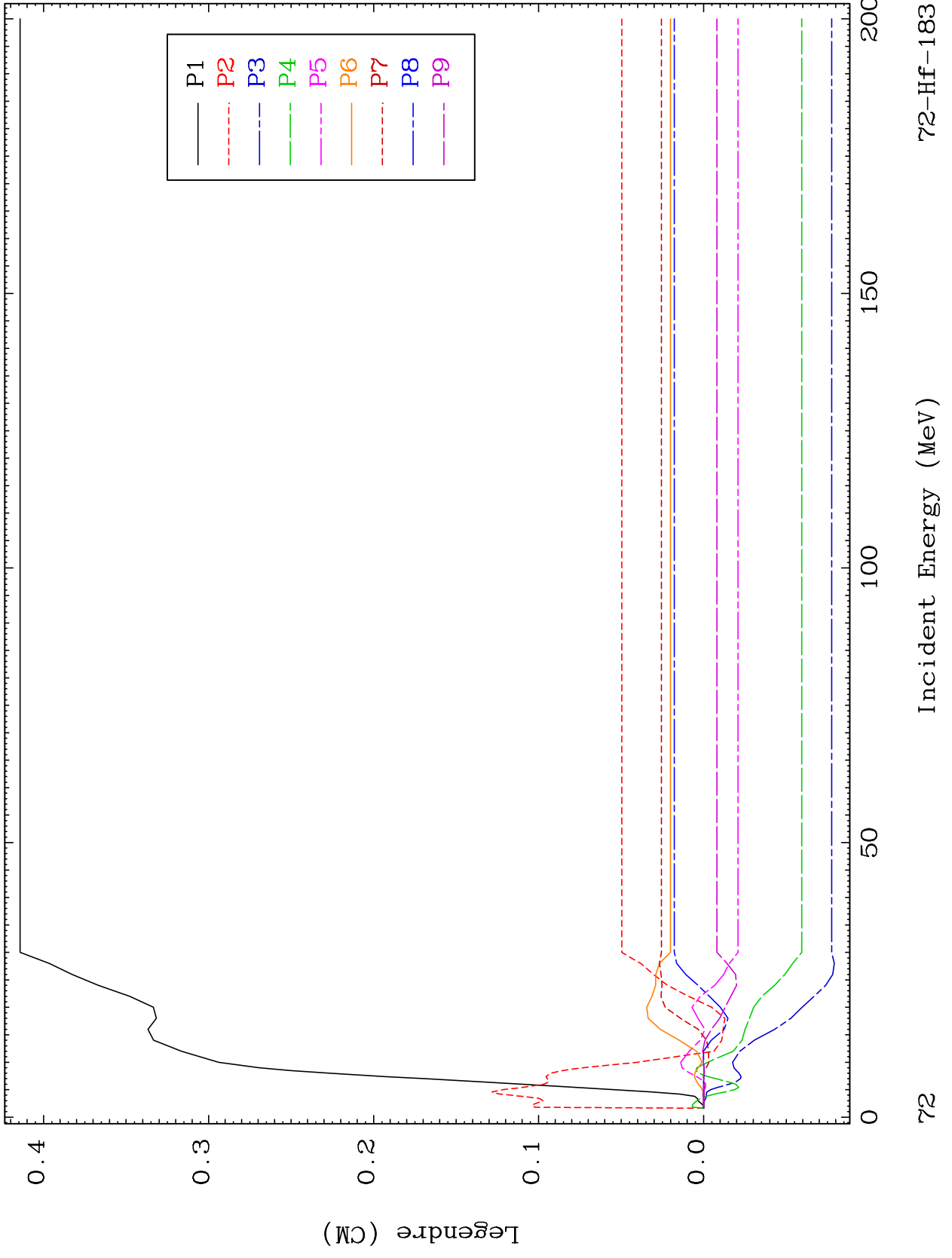
72-Hf-183



MAT 7252

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

72-Hf-183



72-Hf-183

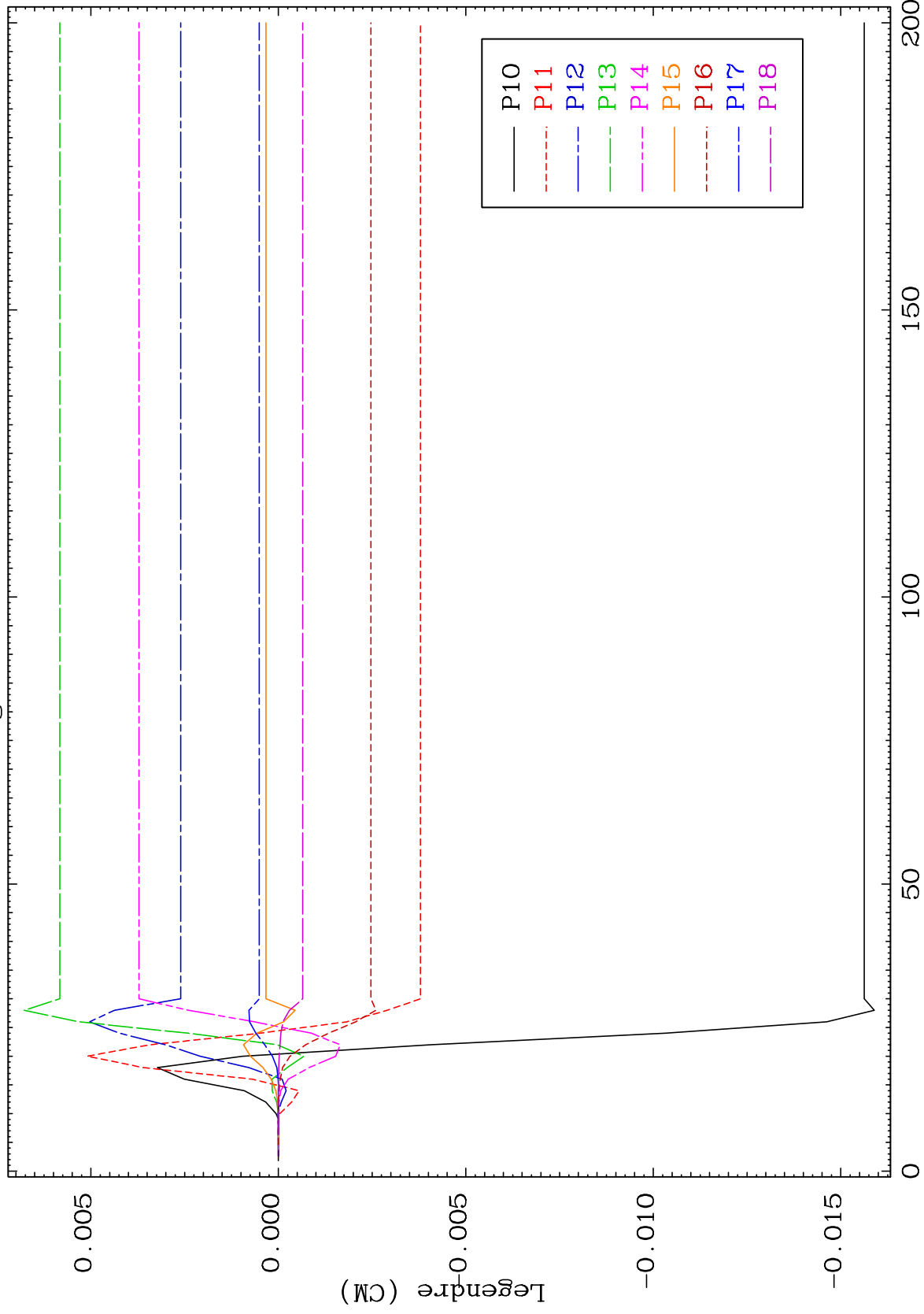
Incident Energy (MeV)

72

MAT 7252

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

72-Hf-183



73

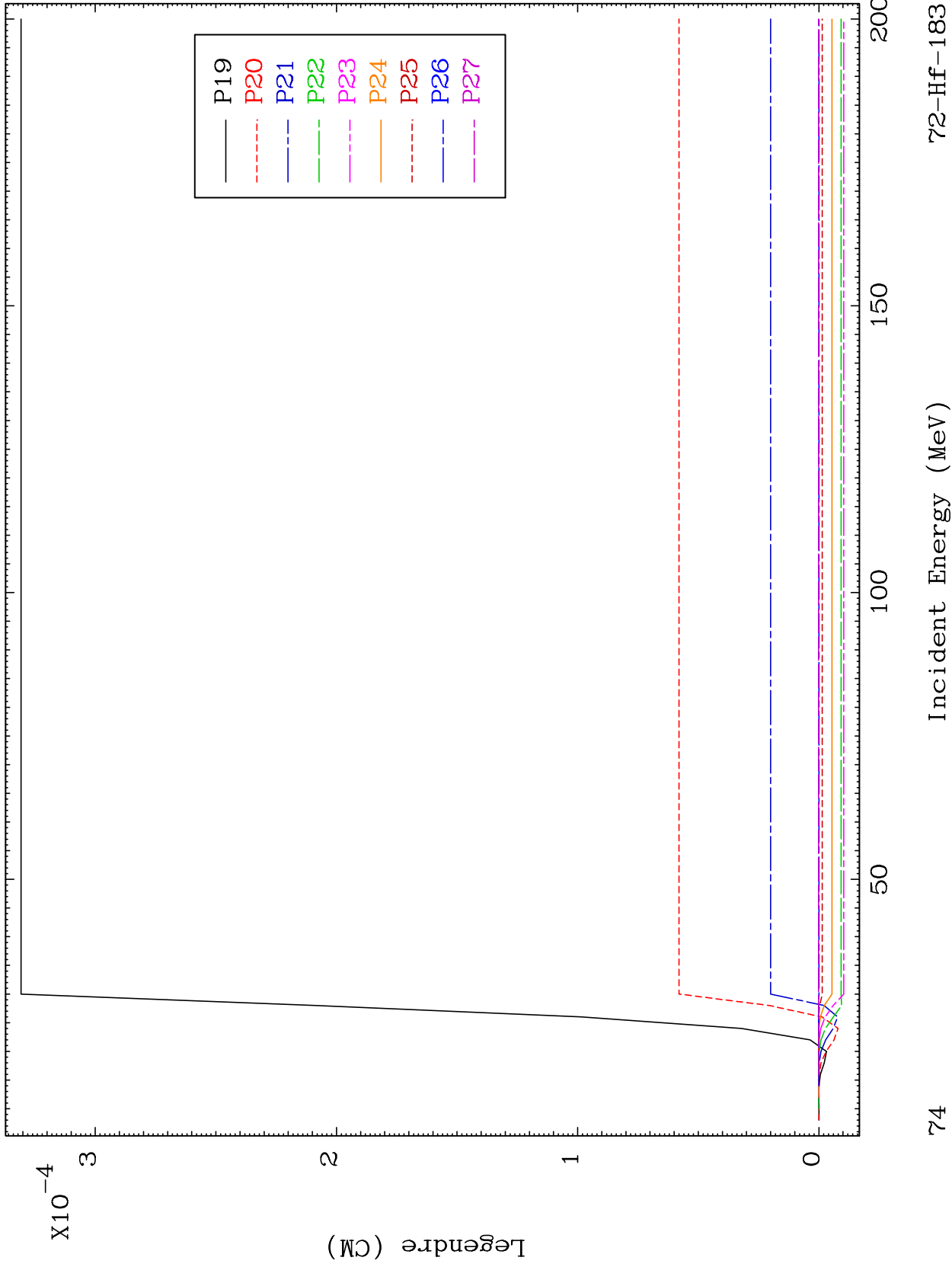
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



74

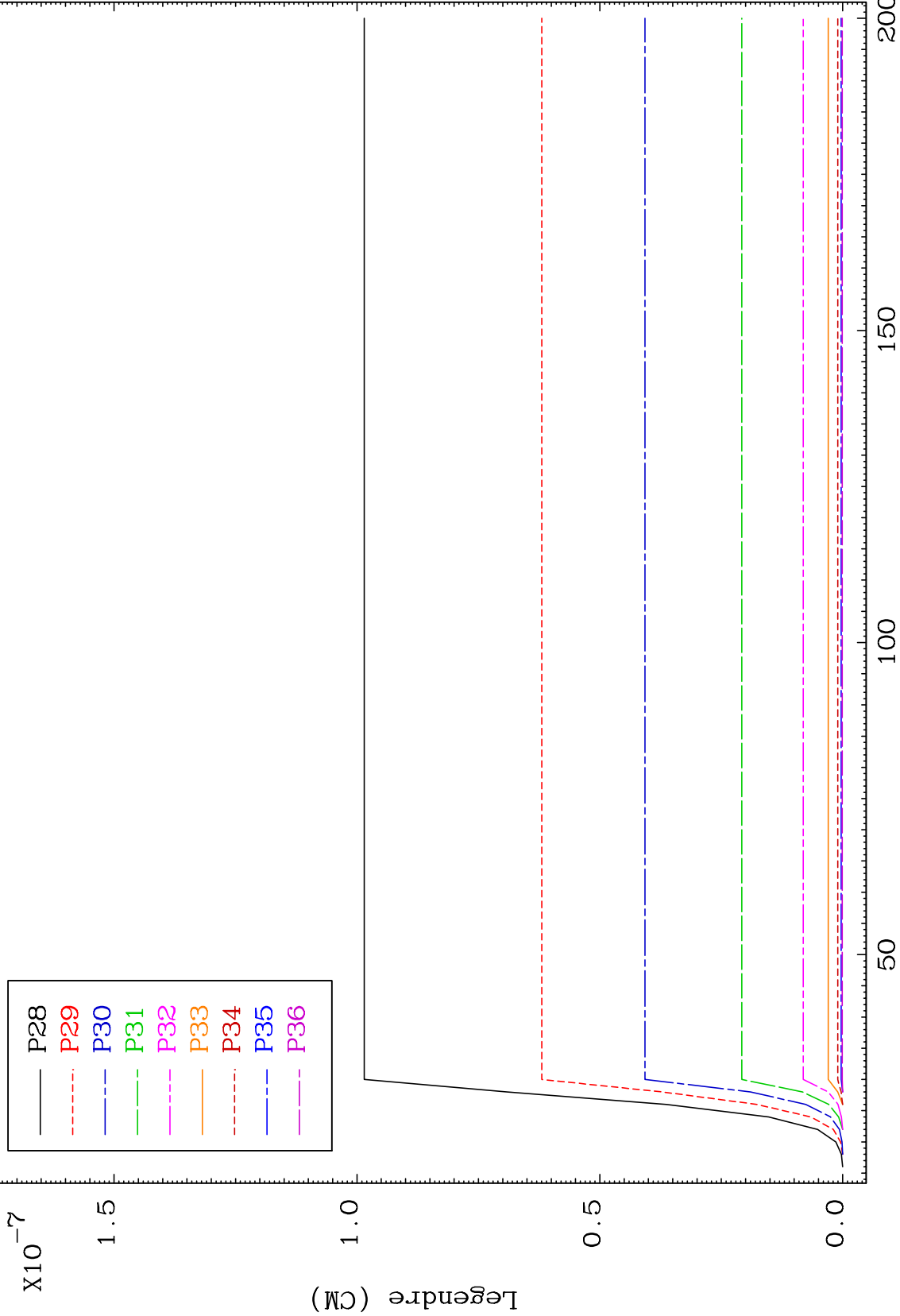
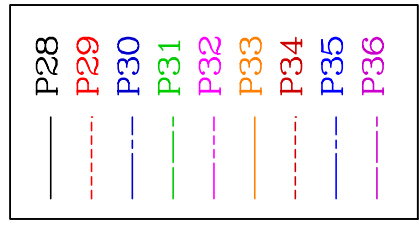
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



75

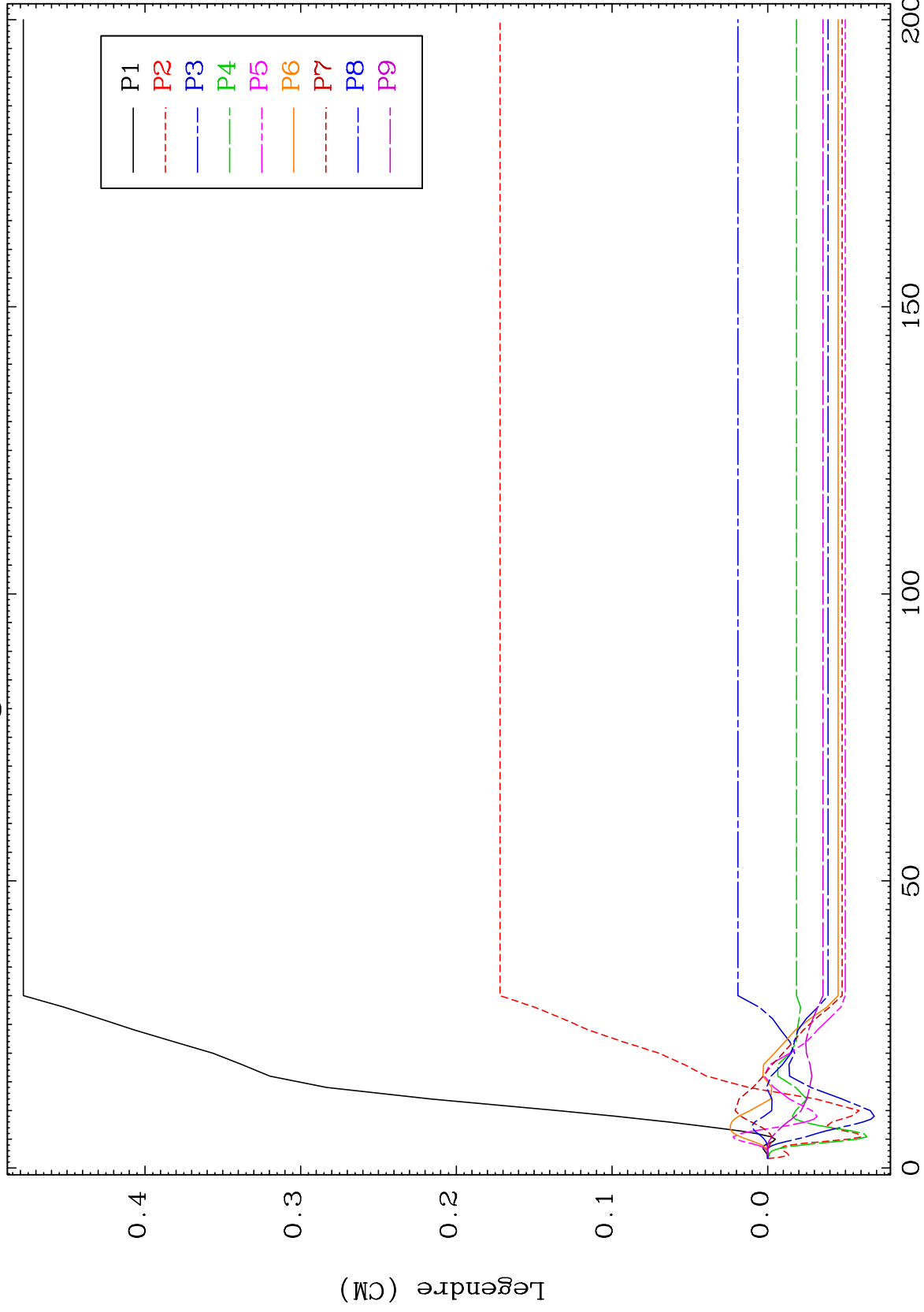
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

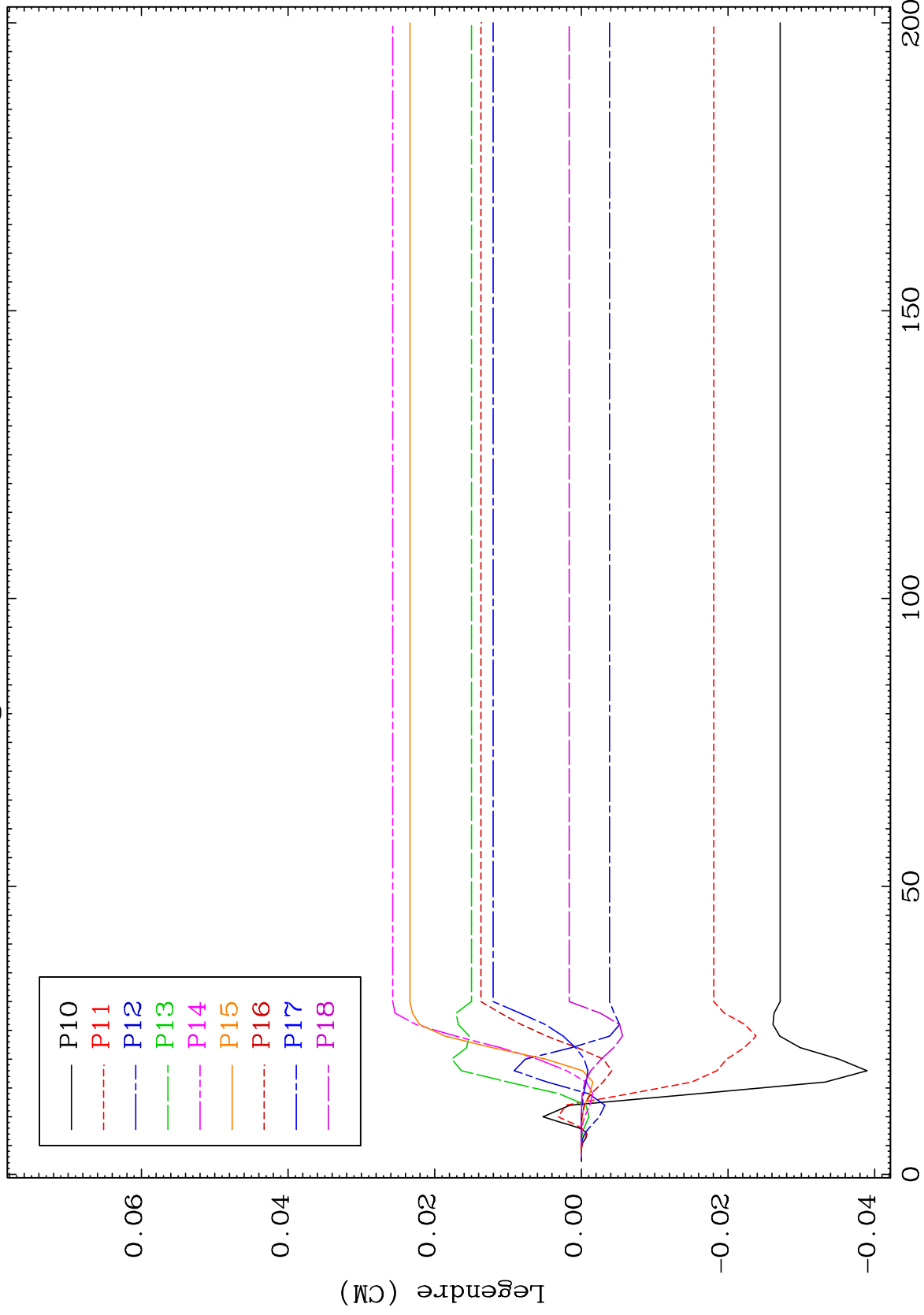
72-Hf-183

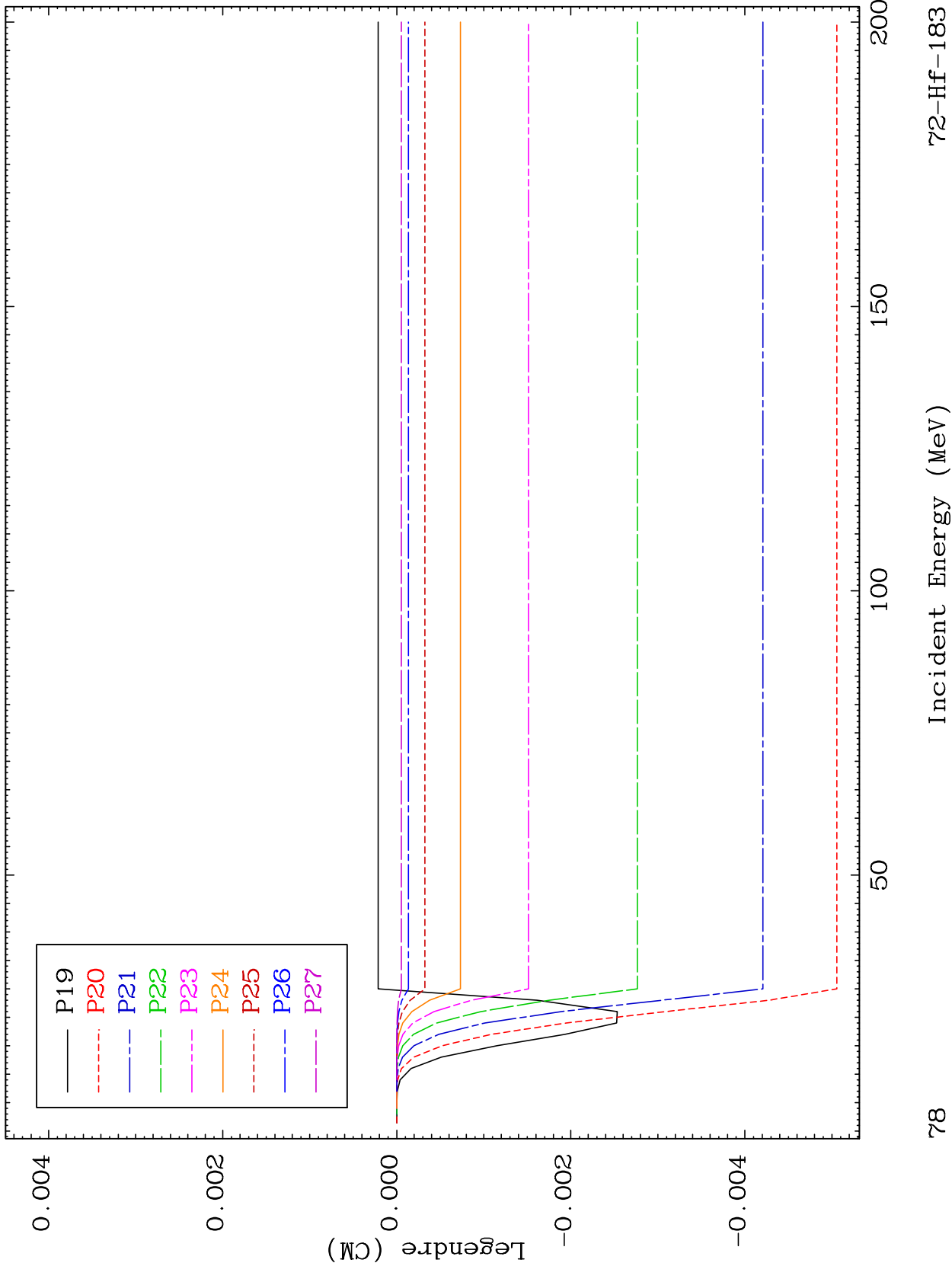


76

Incident Energy (MeV)

72-Hf-183

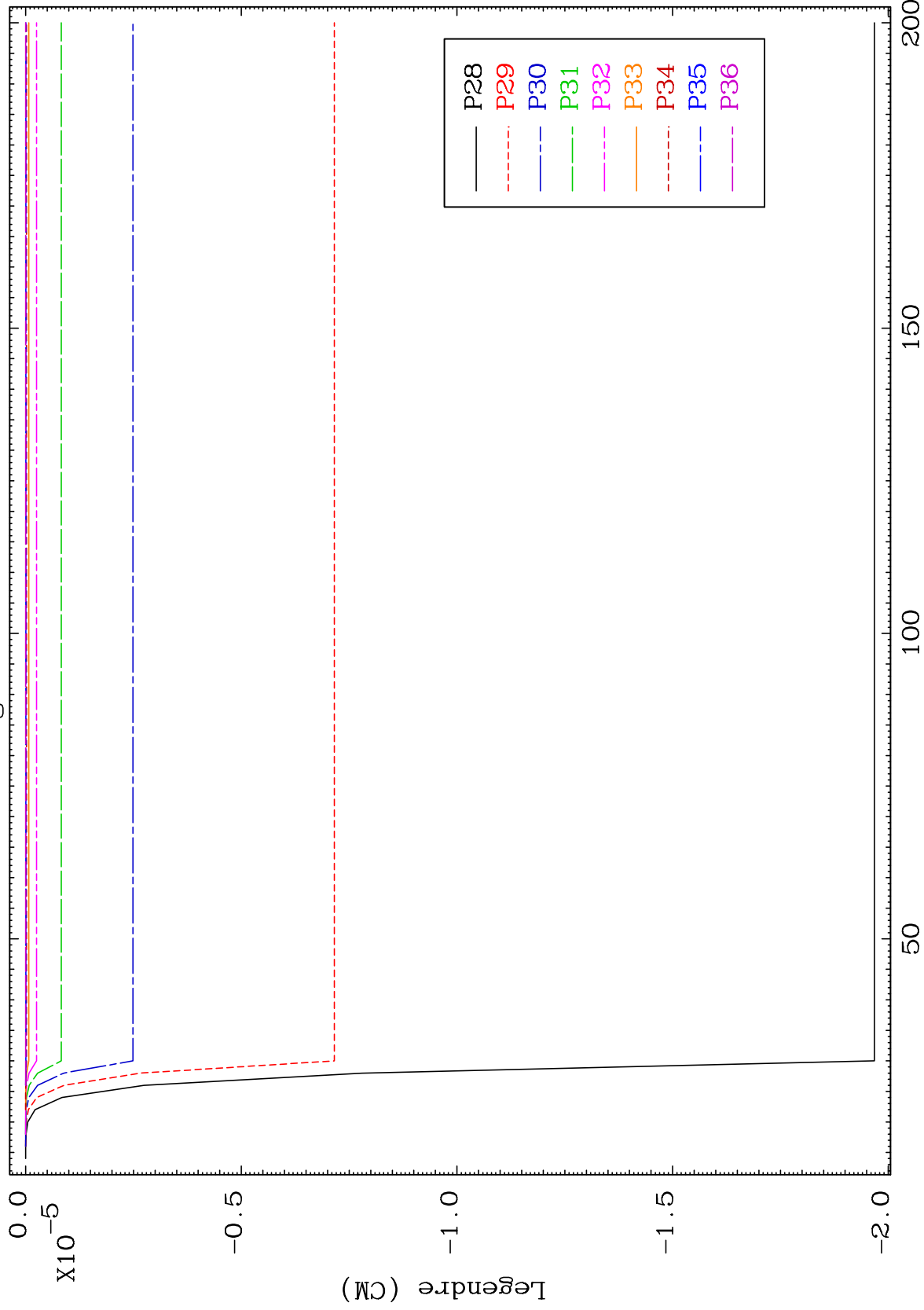




MAT 7252

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

72-Hf-183



79

Incident Energy (MeV)

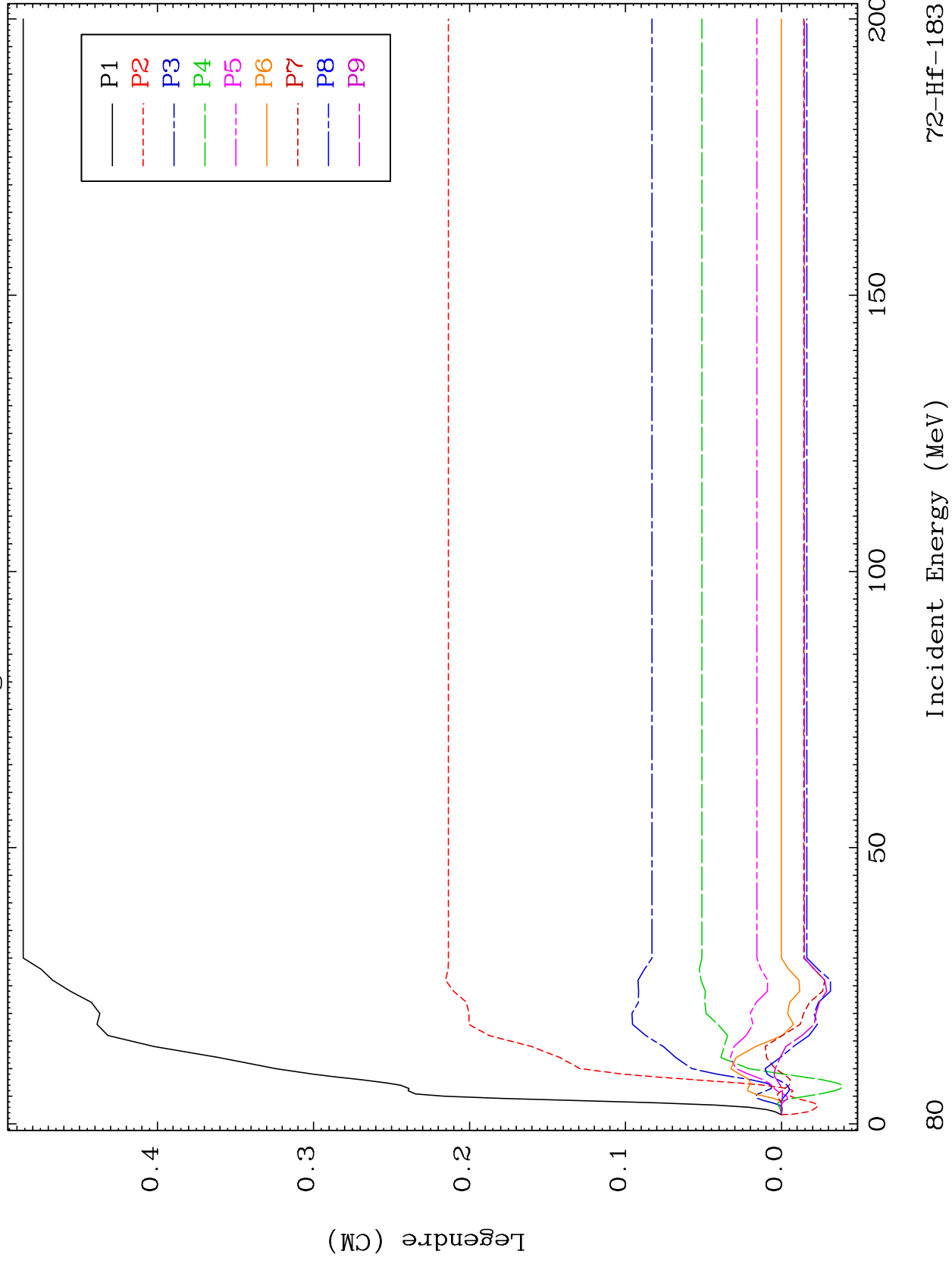
72-Hf-183



MAT 7252

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

72-Hf-183



72-Hf-183

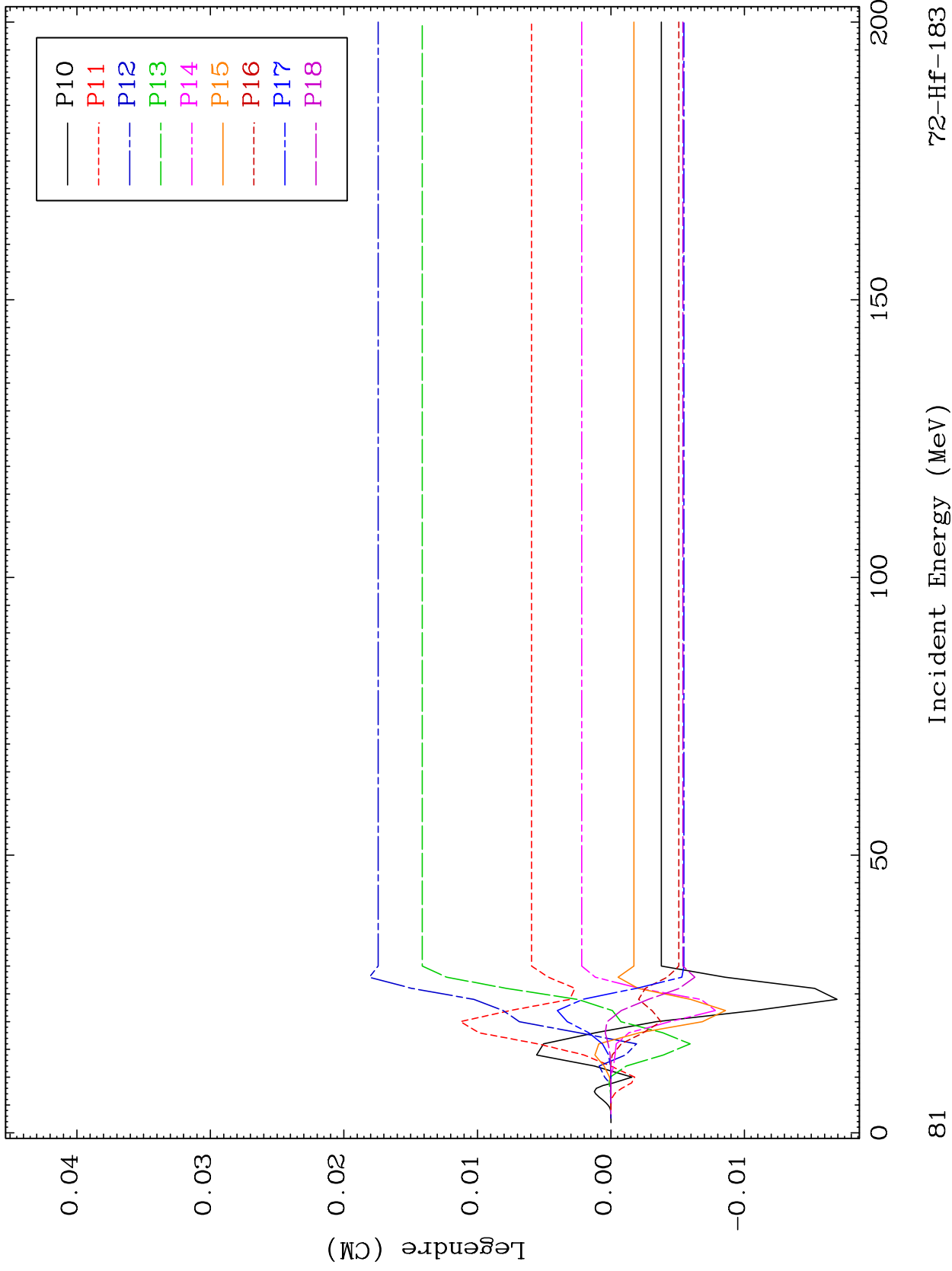
Incident Energy (MeV)

80

MAT 7252

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

72-Hf-183



81

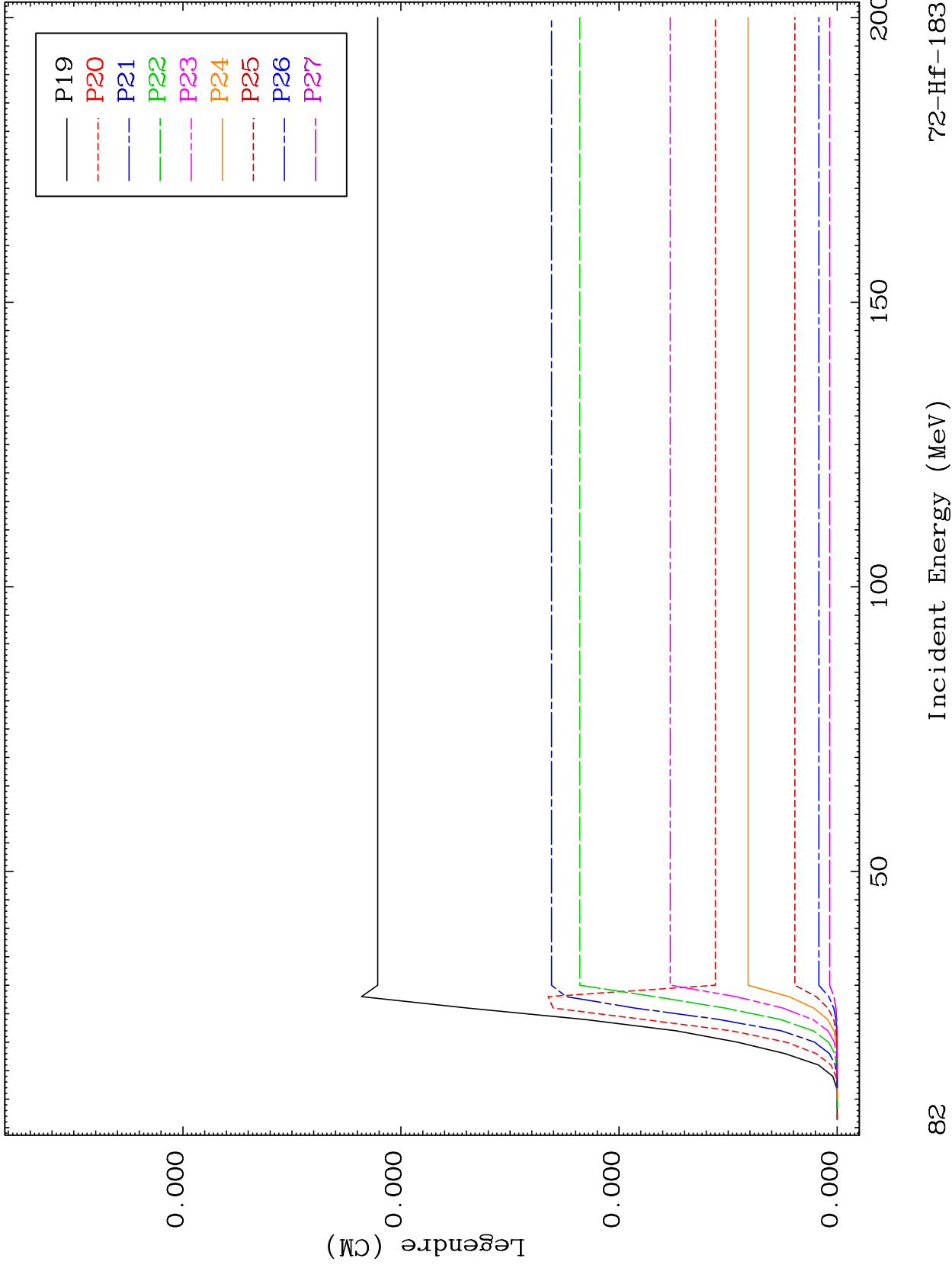
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



82

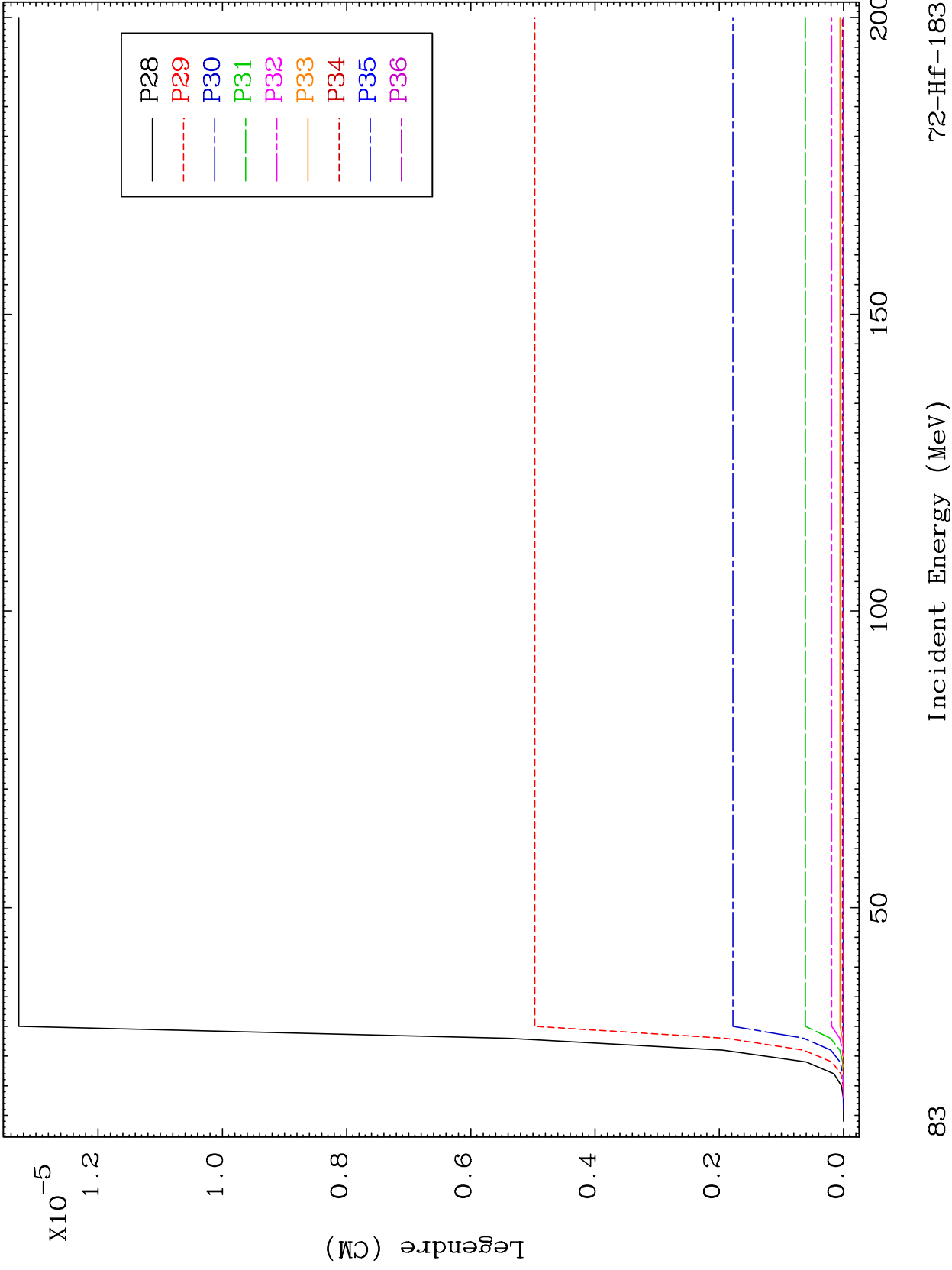
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

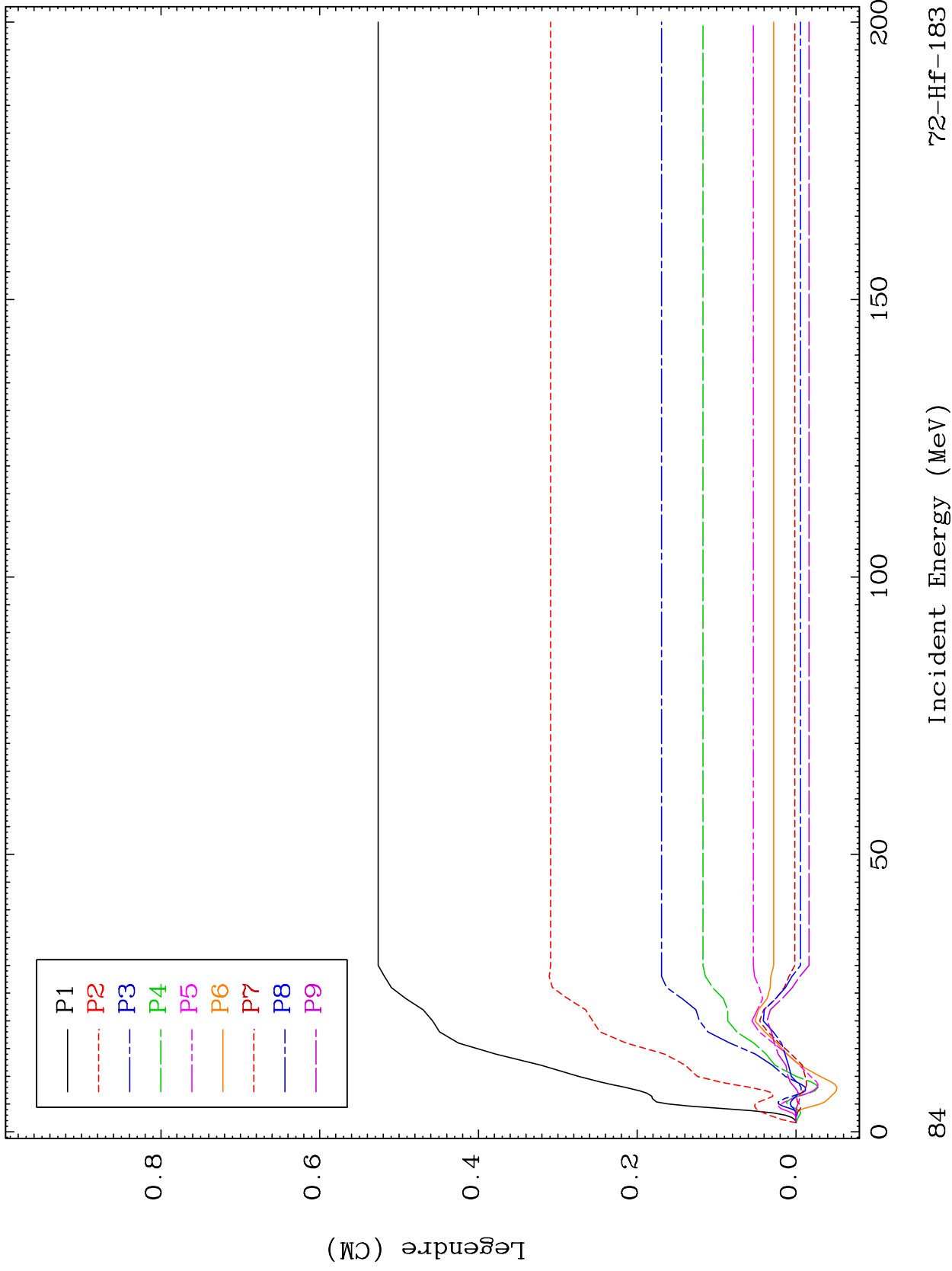
72-Hf-183



83

Incident Energy (MeV)

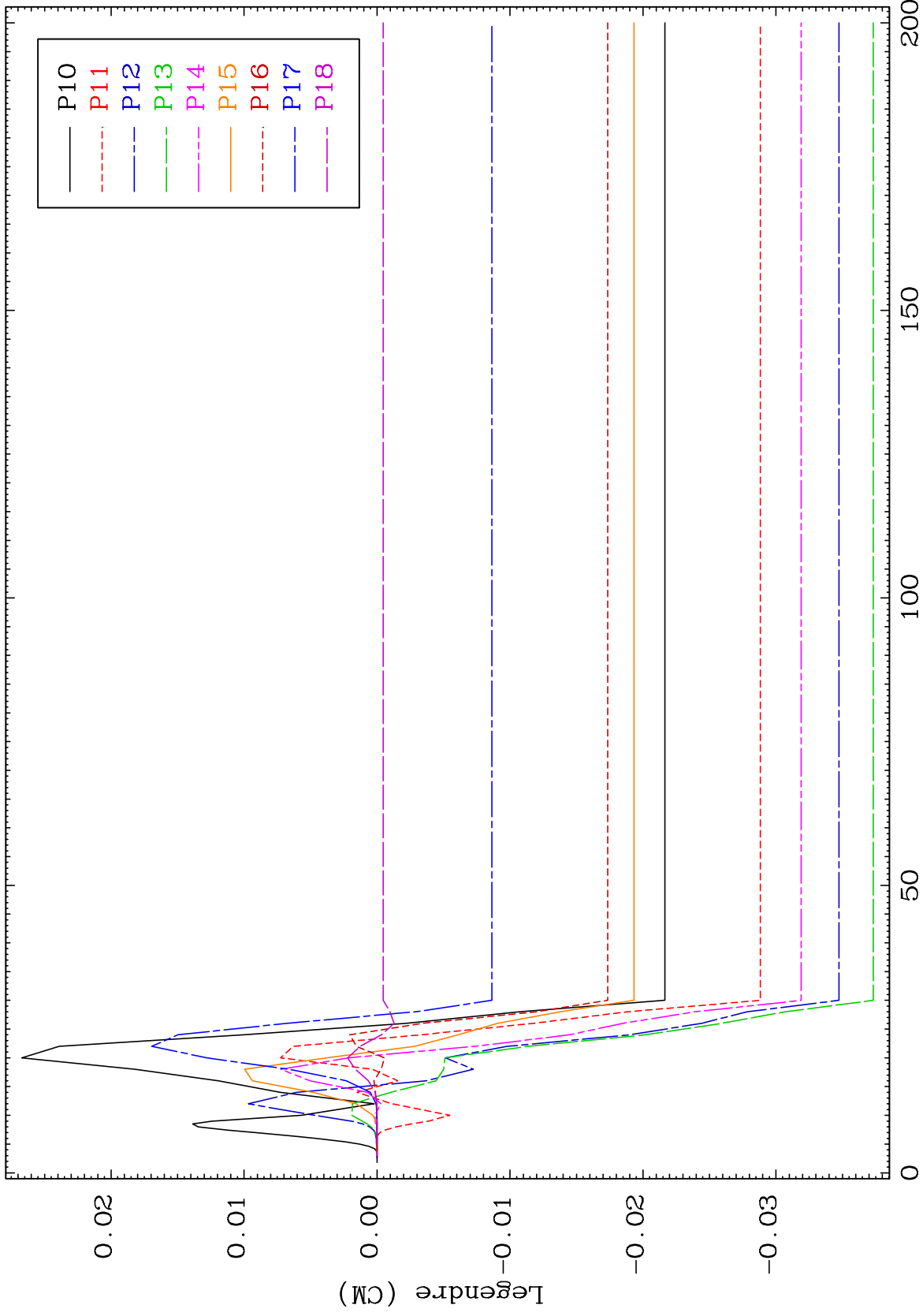
72-Hf-183



MAT 7252

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

72-Hf-183



85

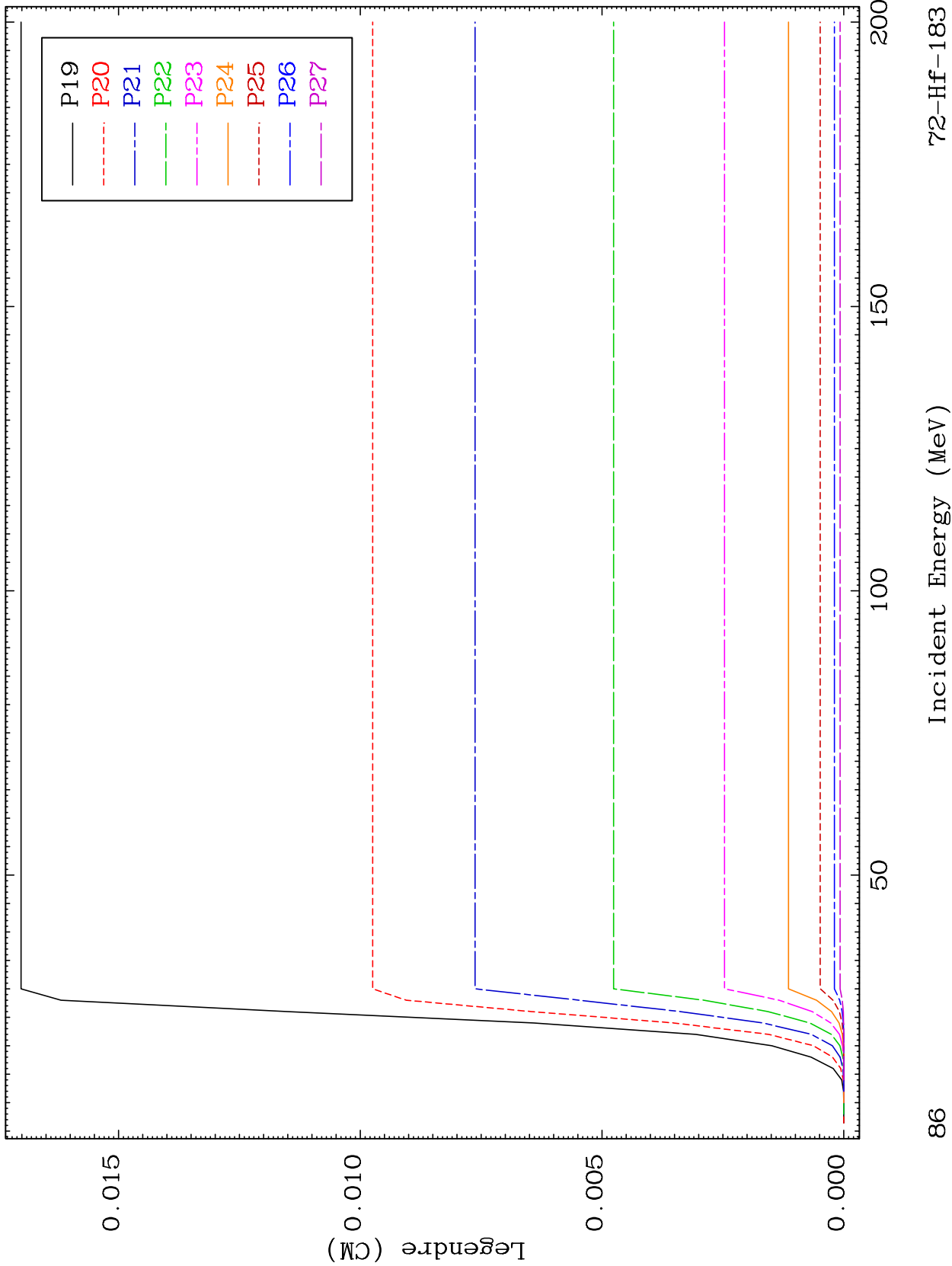
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



86

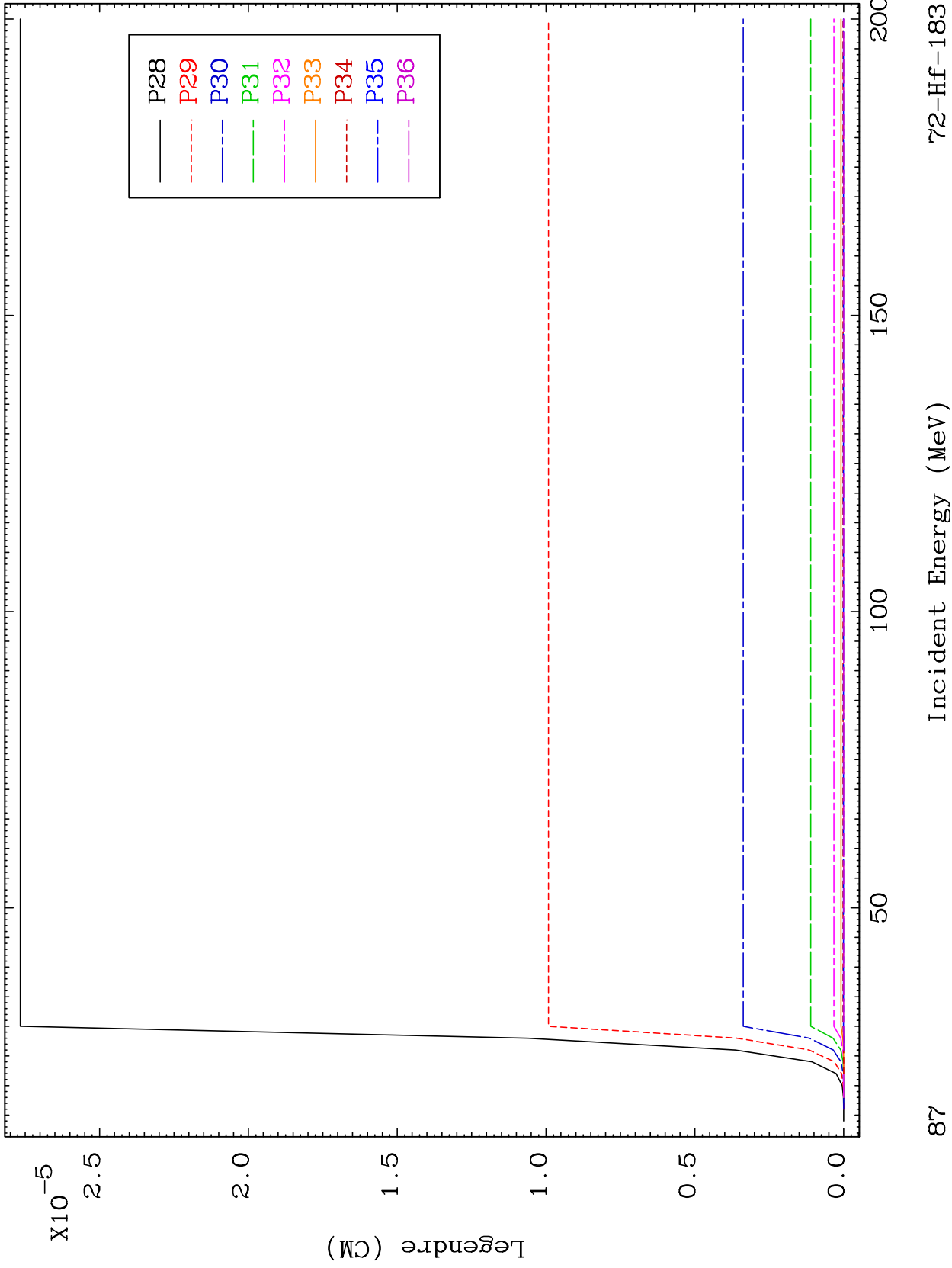
Incident Energy (MeV)

72-Hf-183

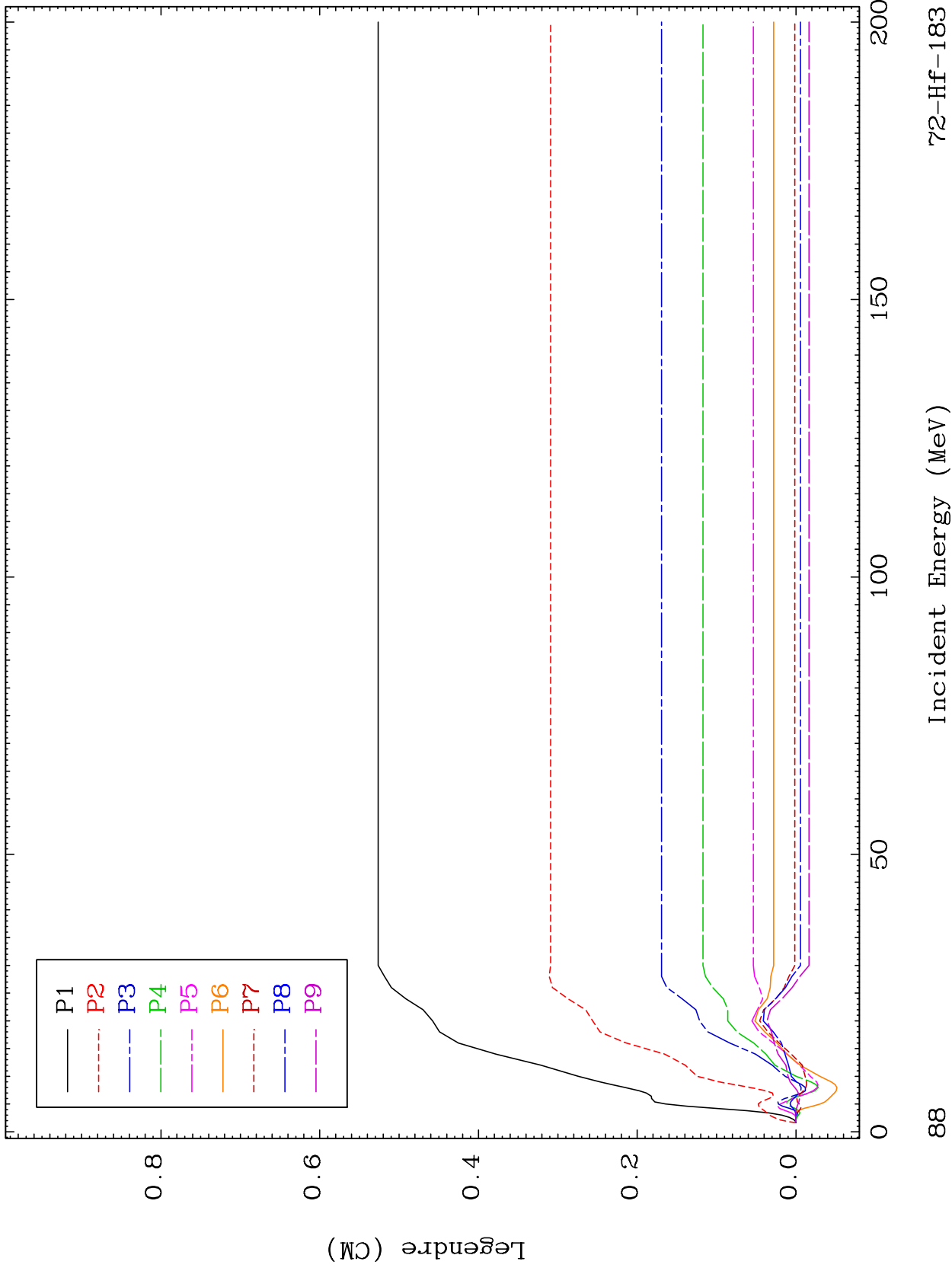
MAT 7252

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

72-Hf-183



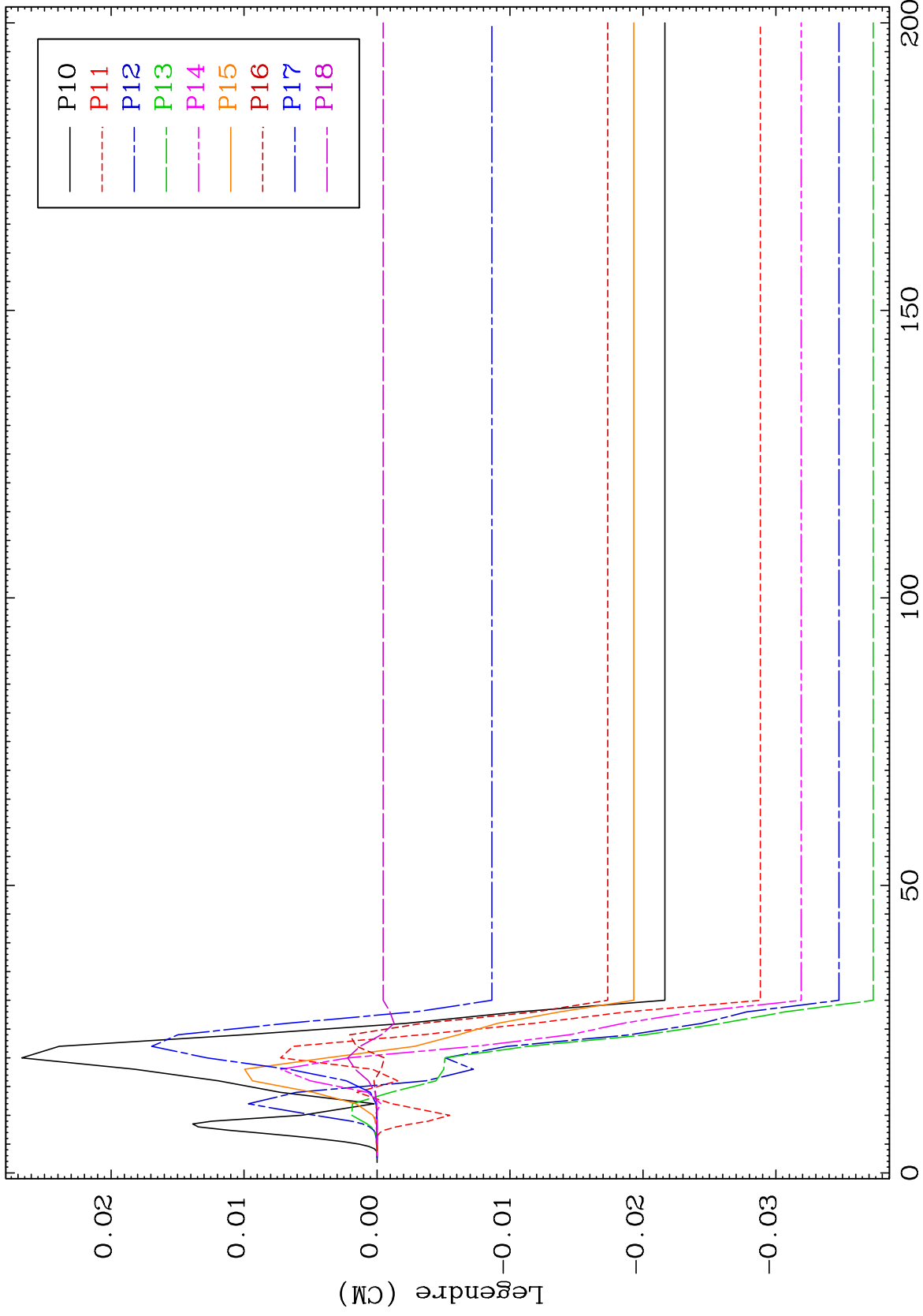




MAT 7252

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

72-Hf-183



89

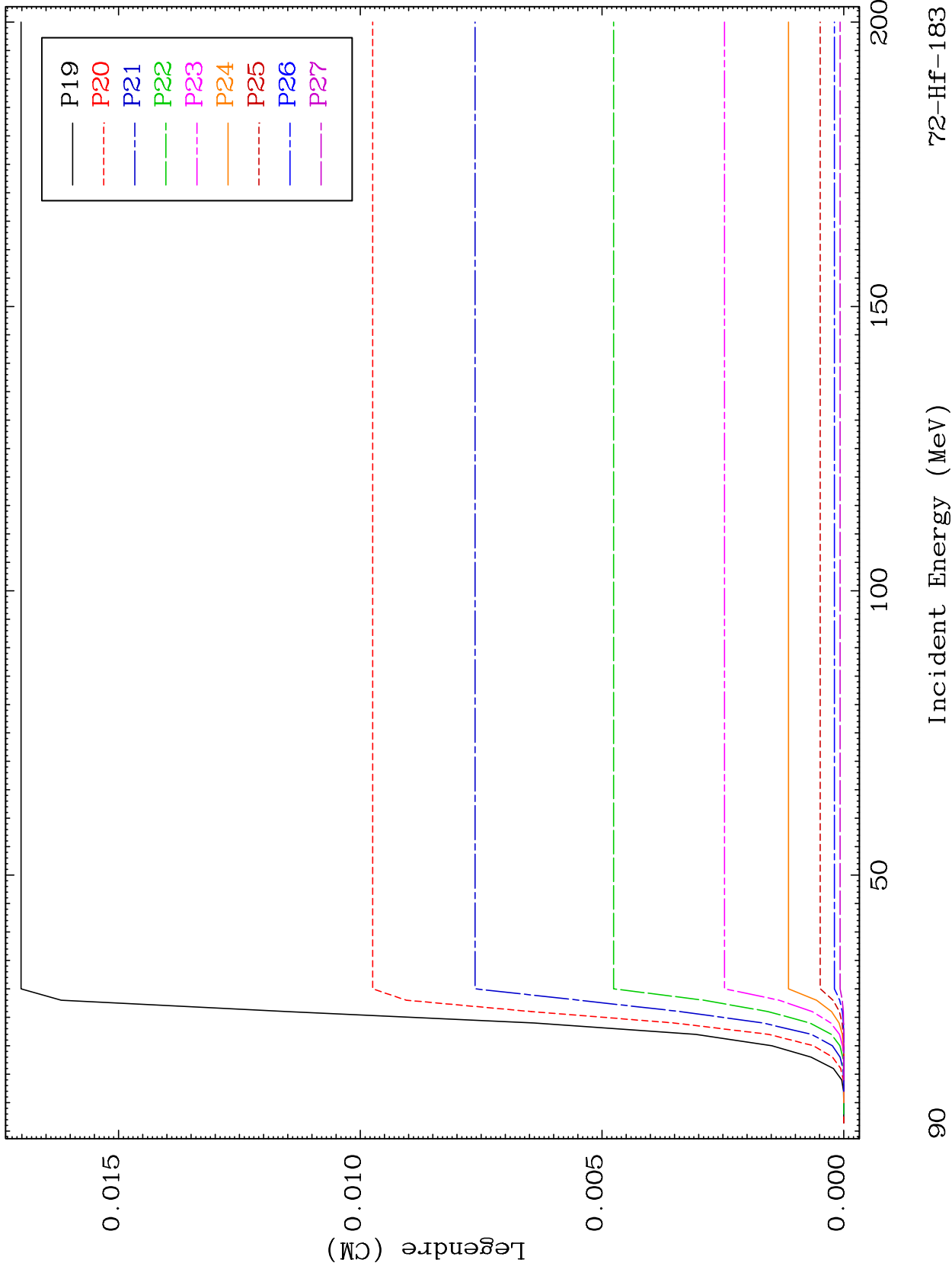
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



72-Hf-183

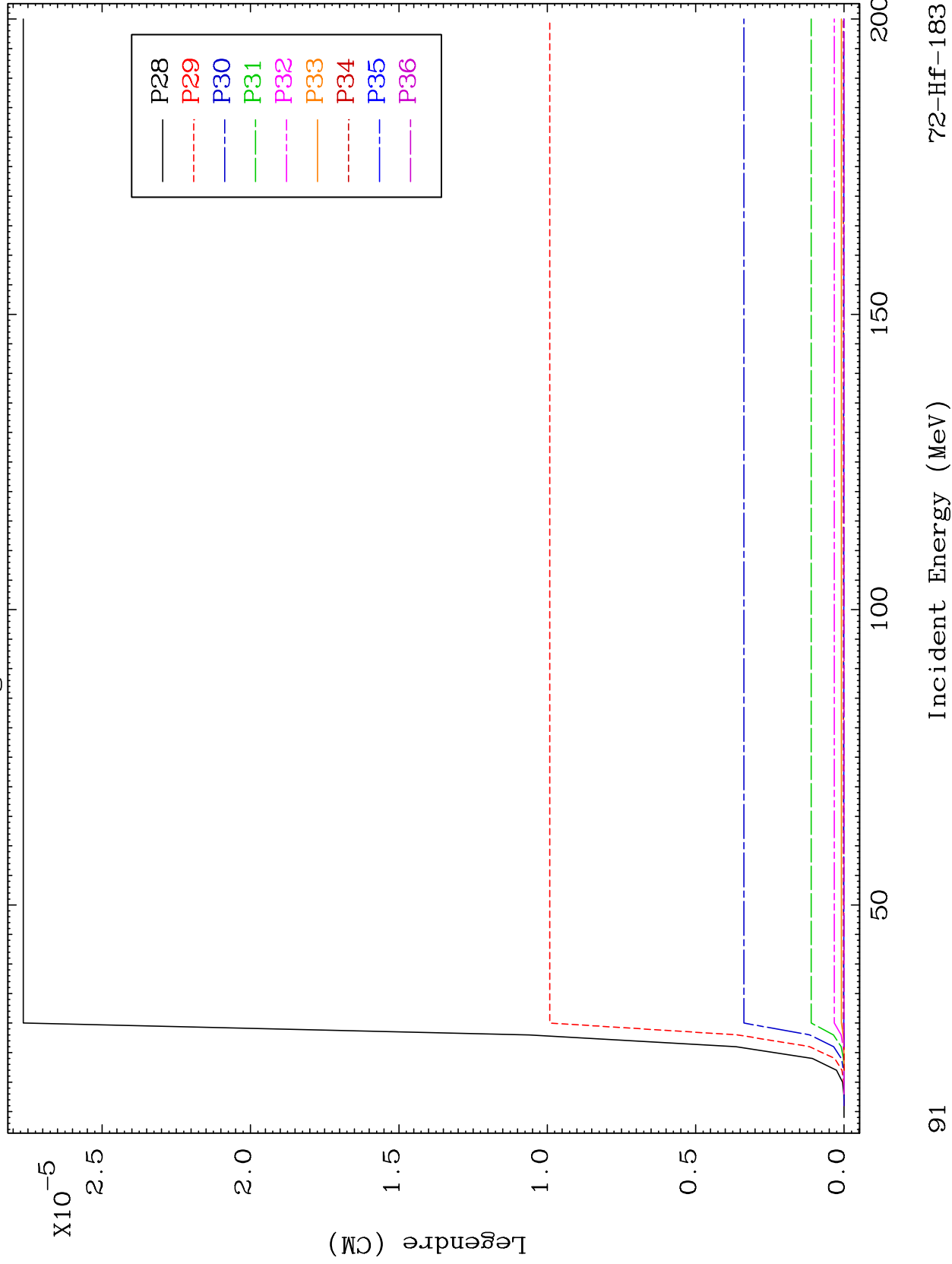
Incident Energy (MeV)

90

MAT 7252

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

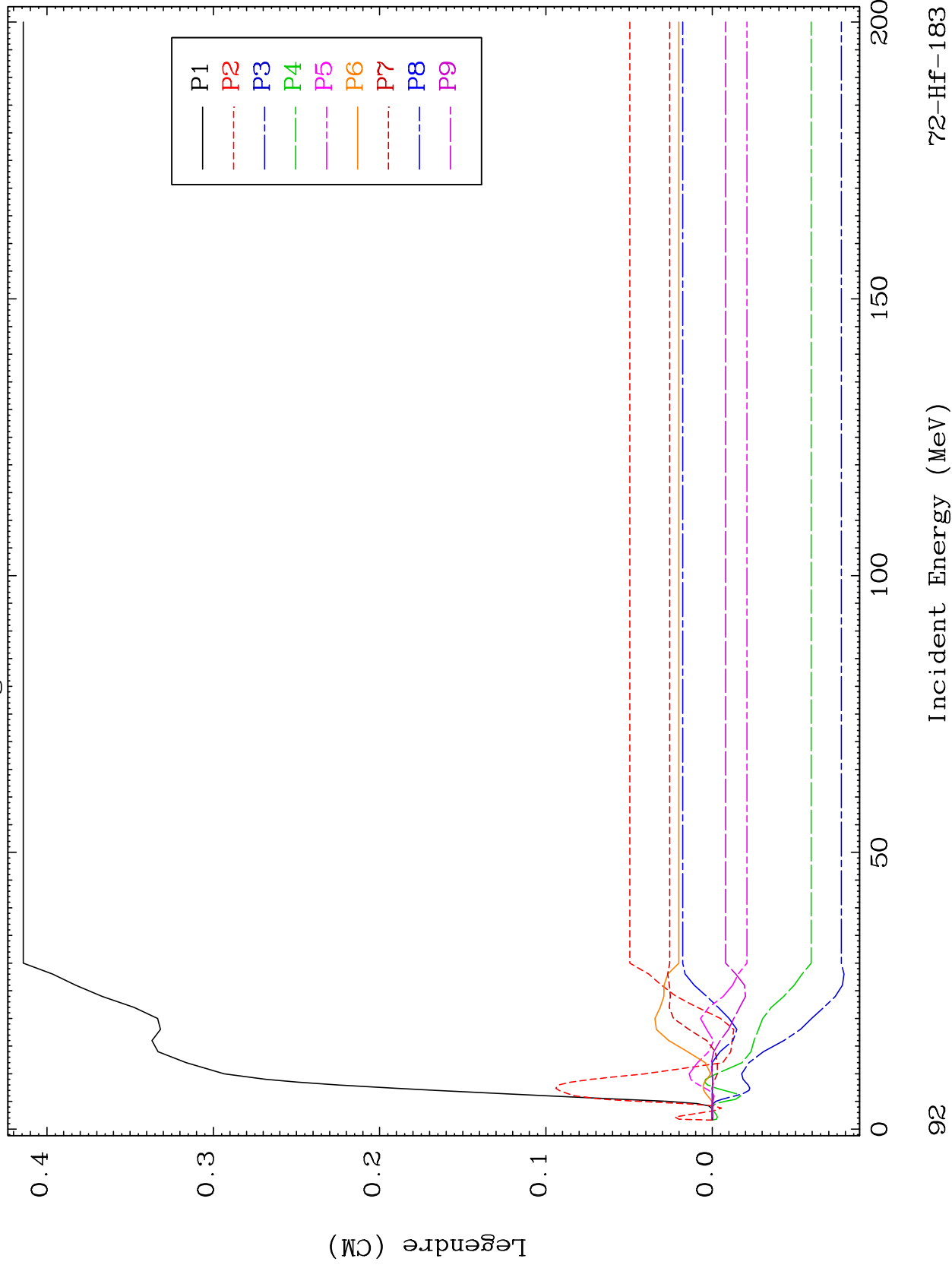
72-Hf-183



MAT 7252

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

72-Hf-183



72-Hf-183

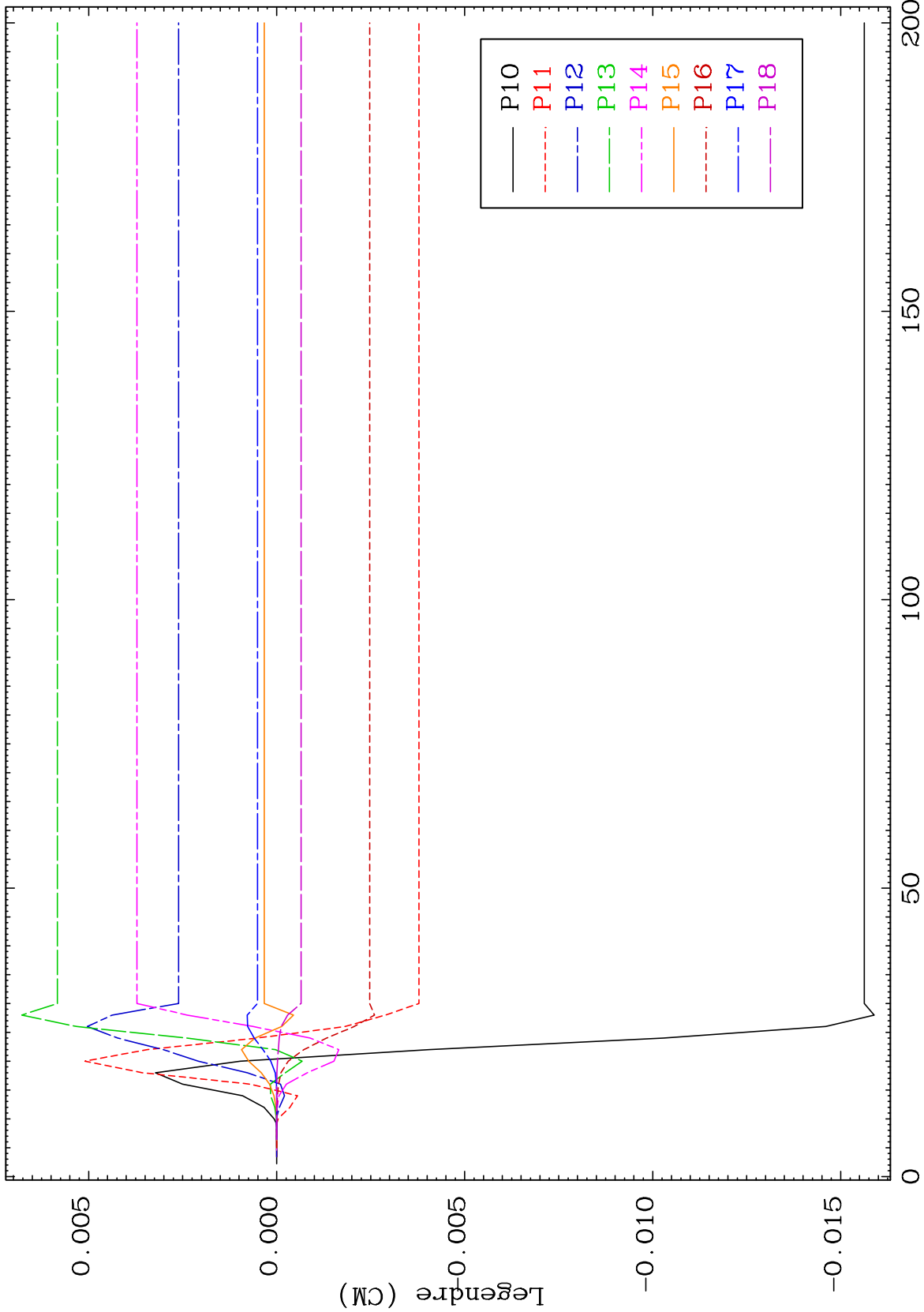
Incident Energy (MeV)

92

MAT 7252

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

72-Hf-183



93

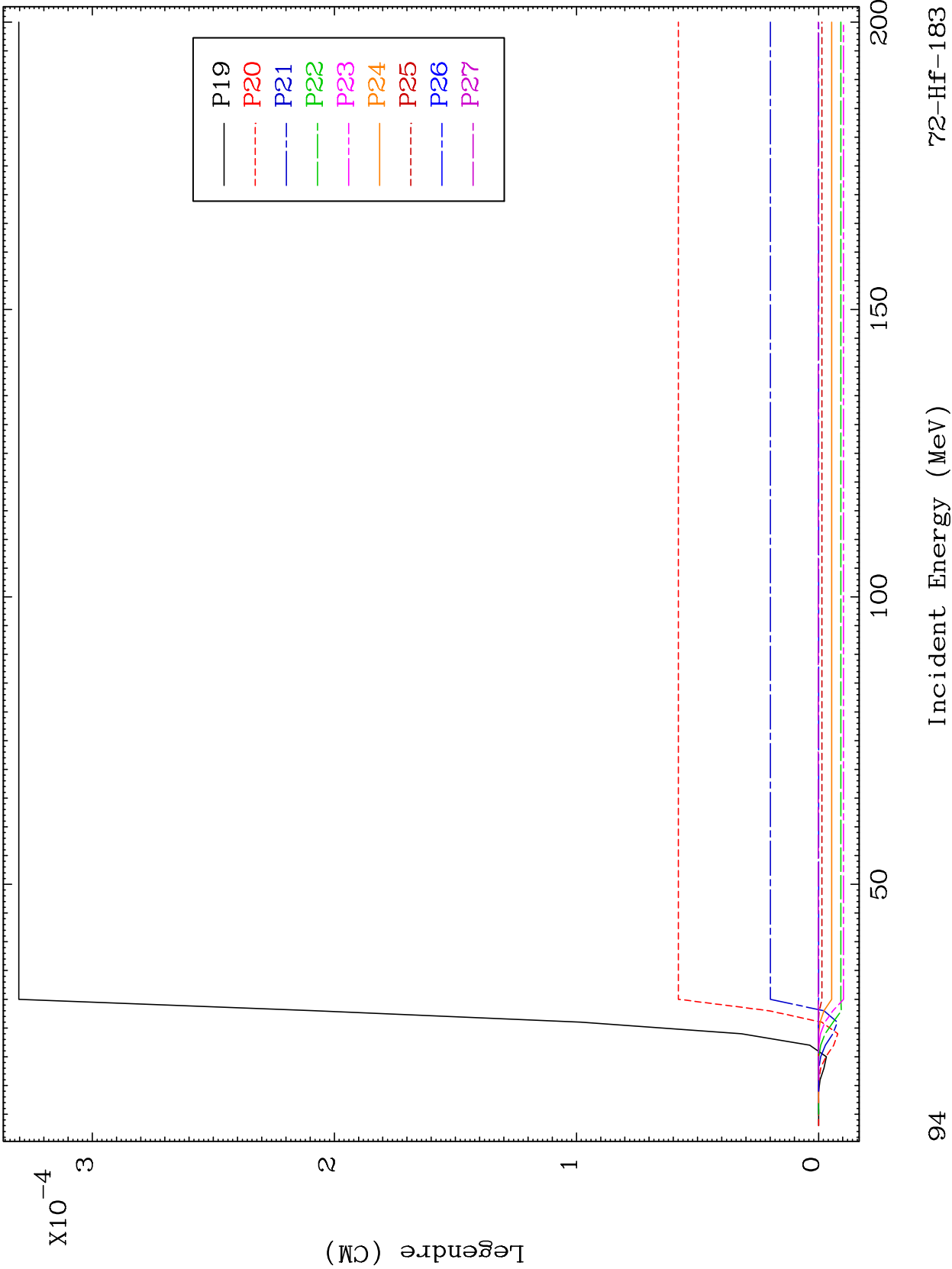
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



94

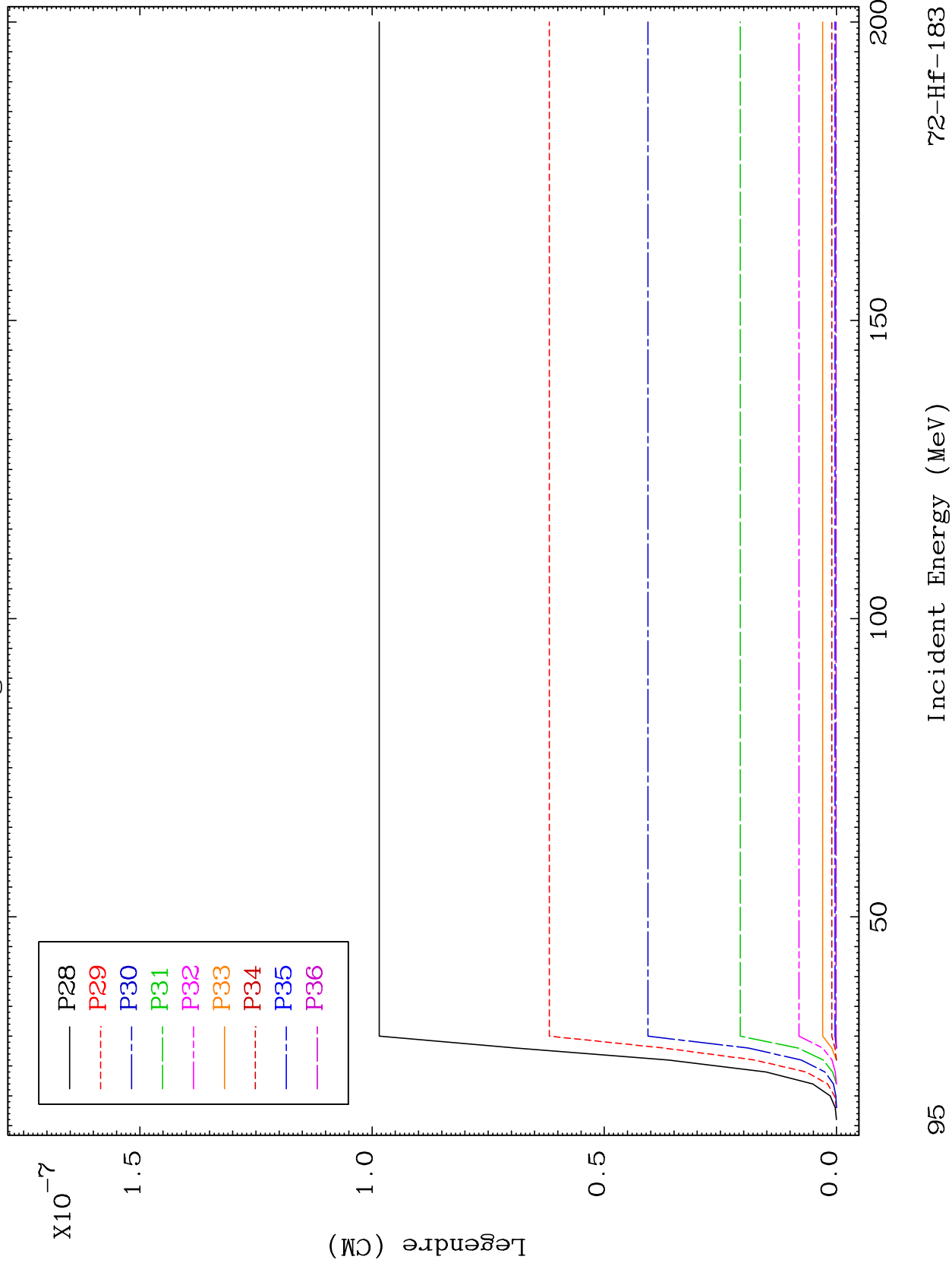
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183

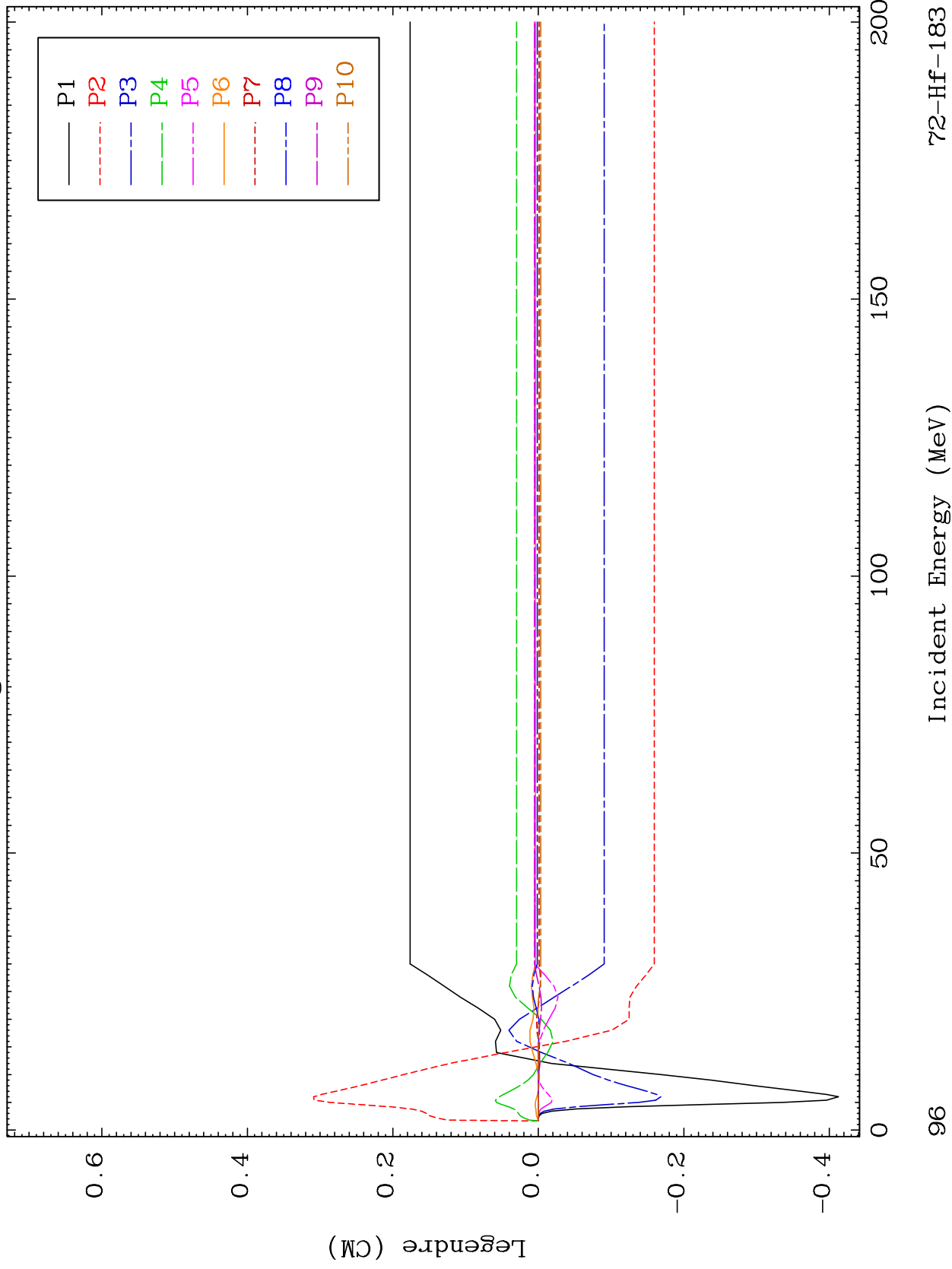




MAT 7252

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

72-Hf-183



72-Hf-183

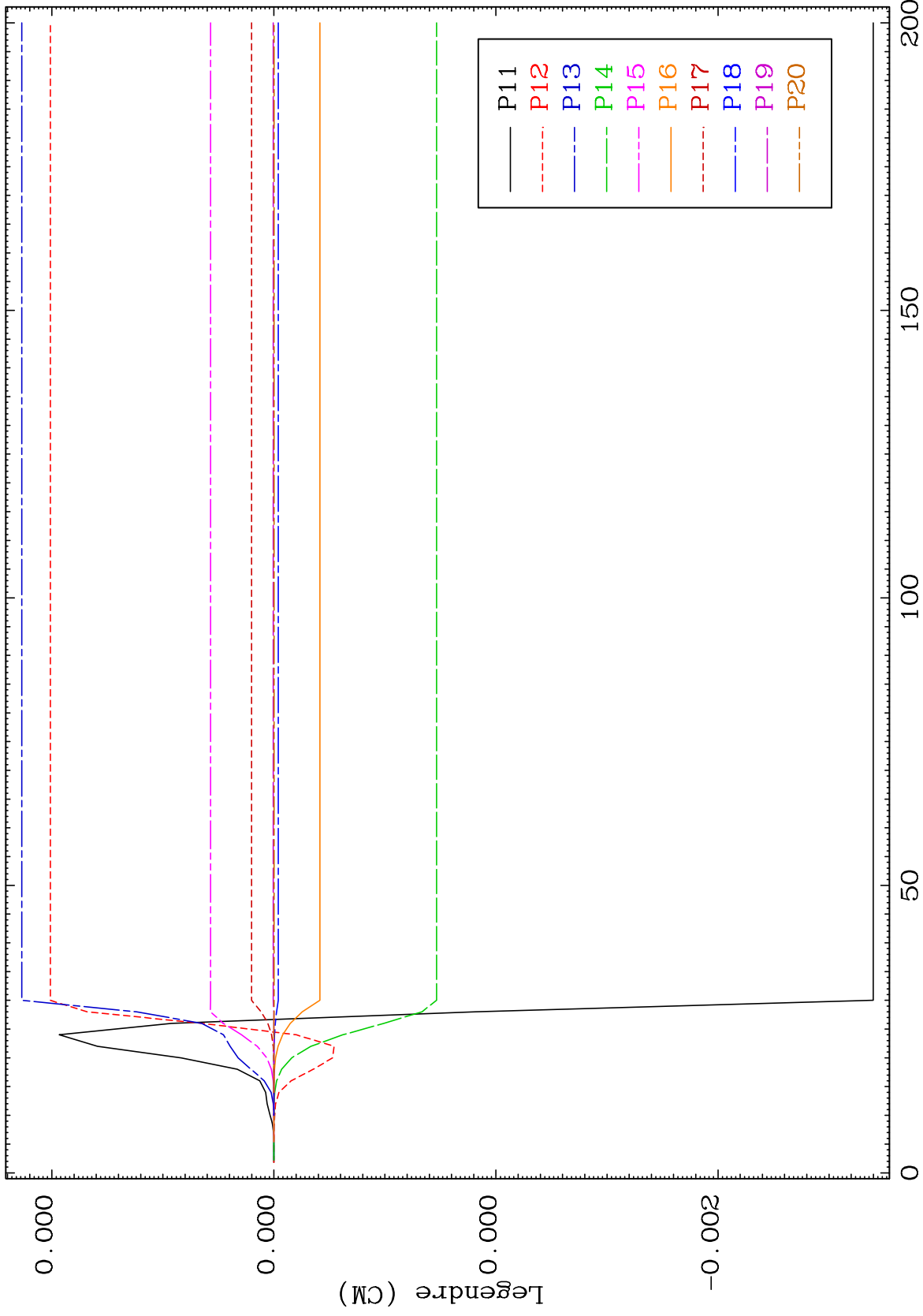
Incident Energy (MeV)

96

MAT 7252

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

72-Hf-183



97

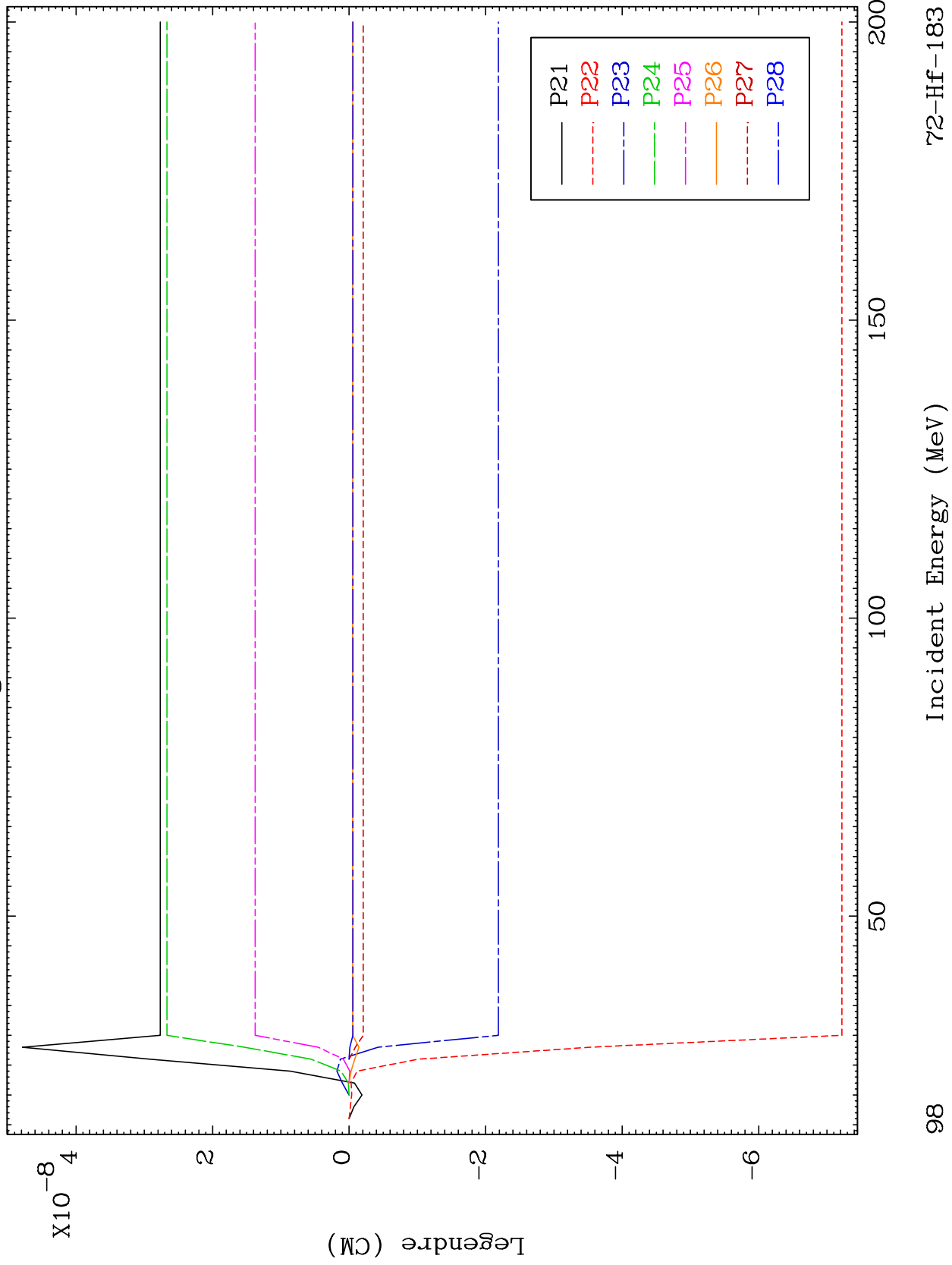
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



98

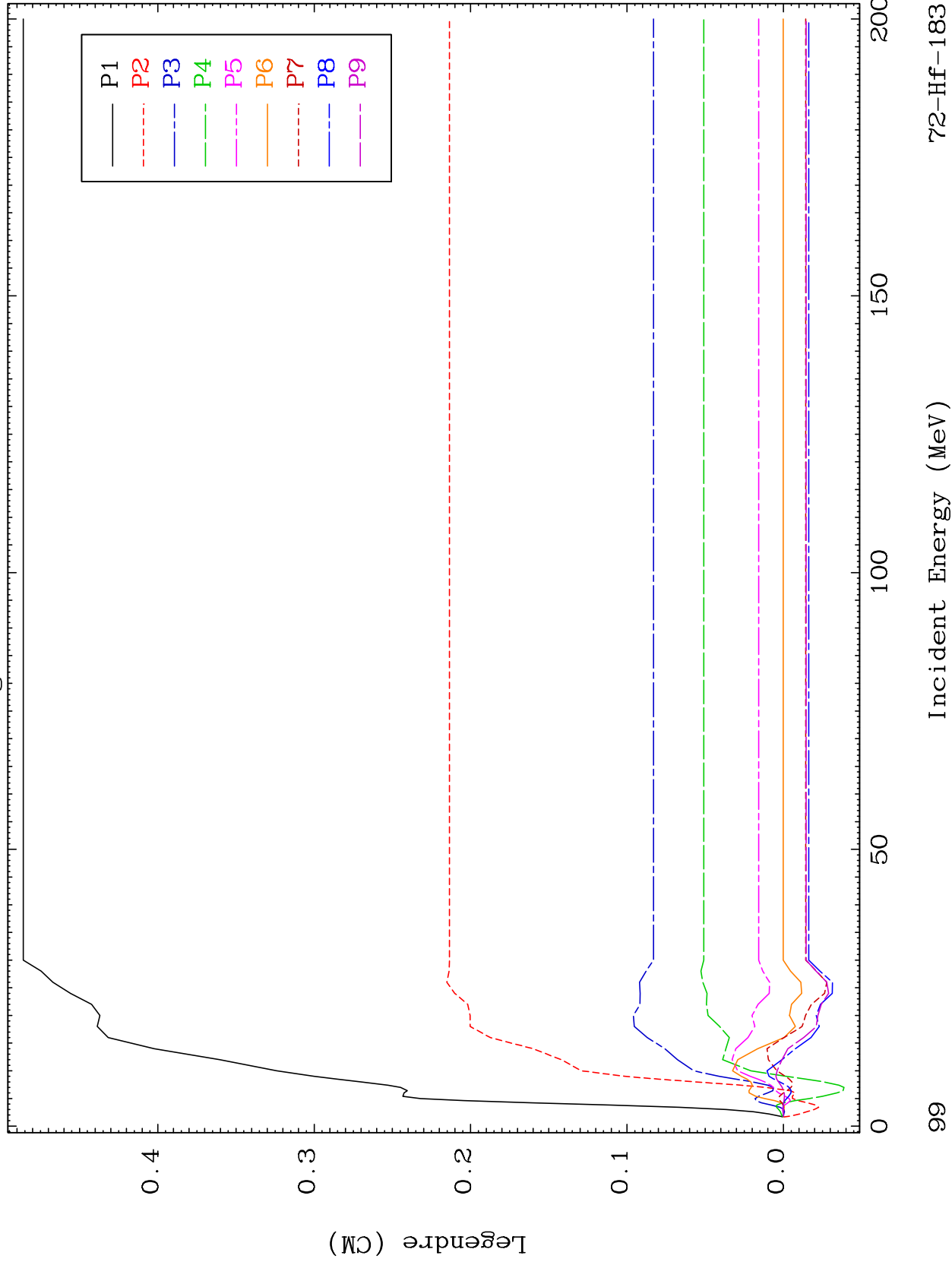
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



72-Hf-183

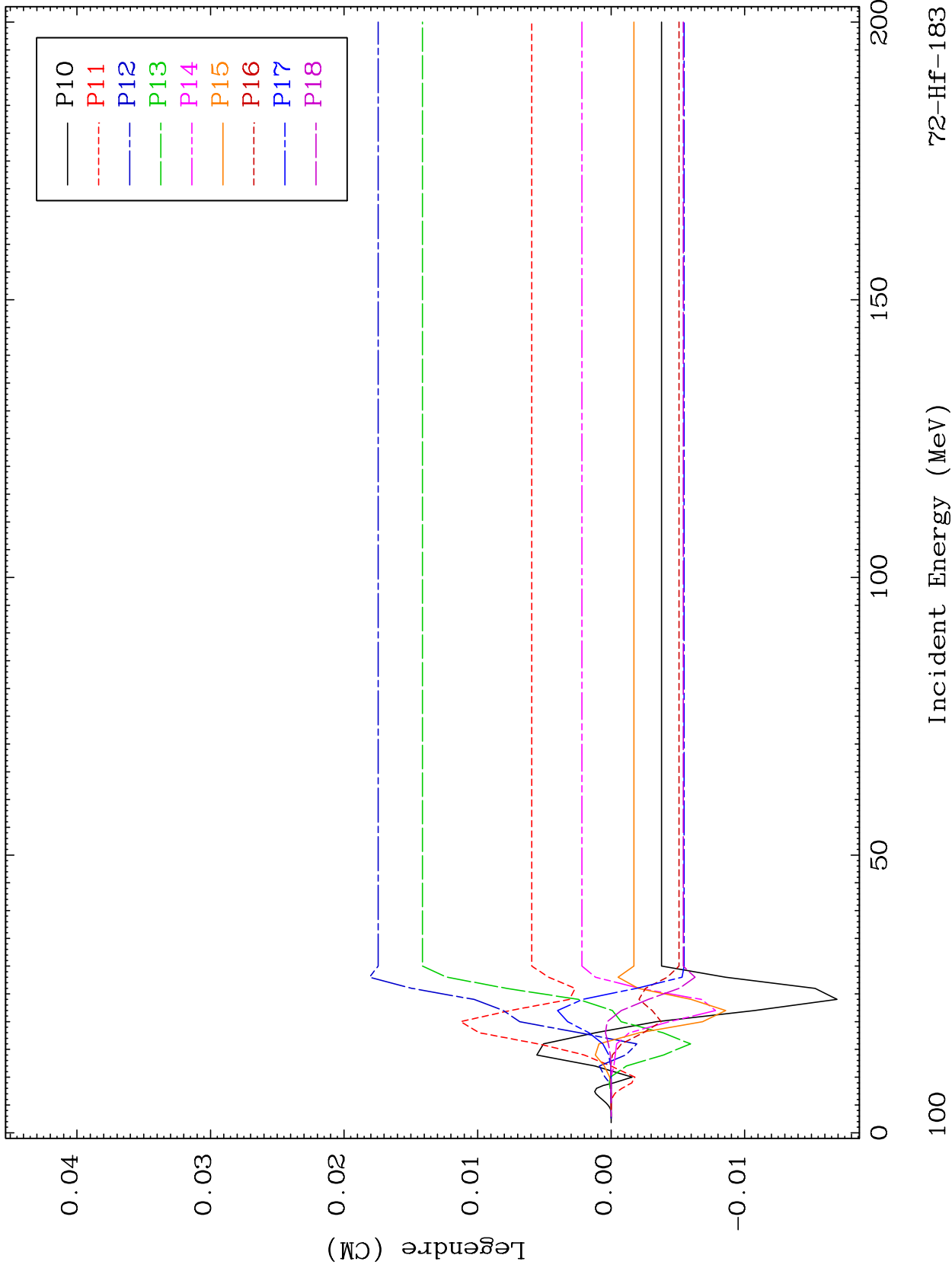
Incident Energy (MeV)

99

MAT 7252

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

72-Hf-183



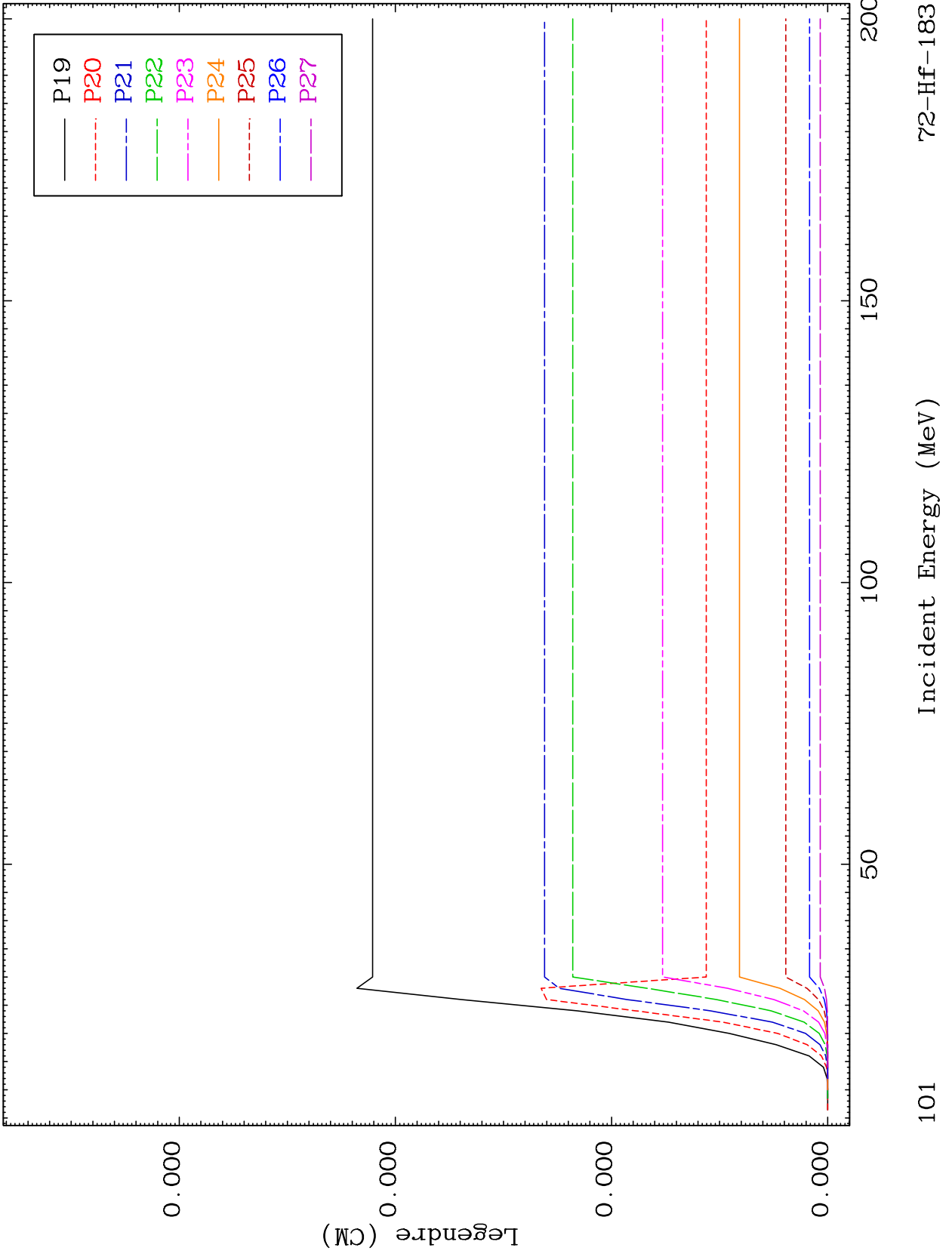
72-Hf-183

Incident Energy (MeV)

MAT 7252

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

72-Hf-183



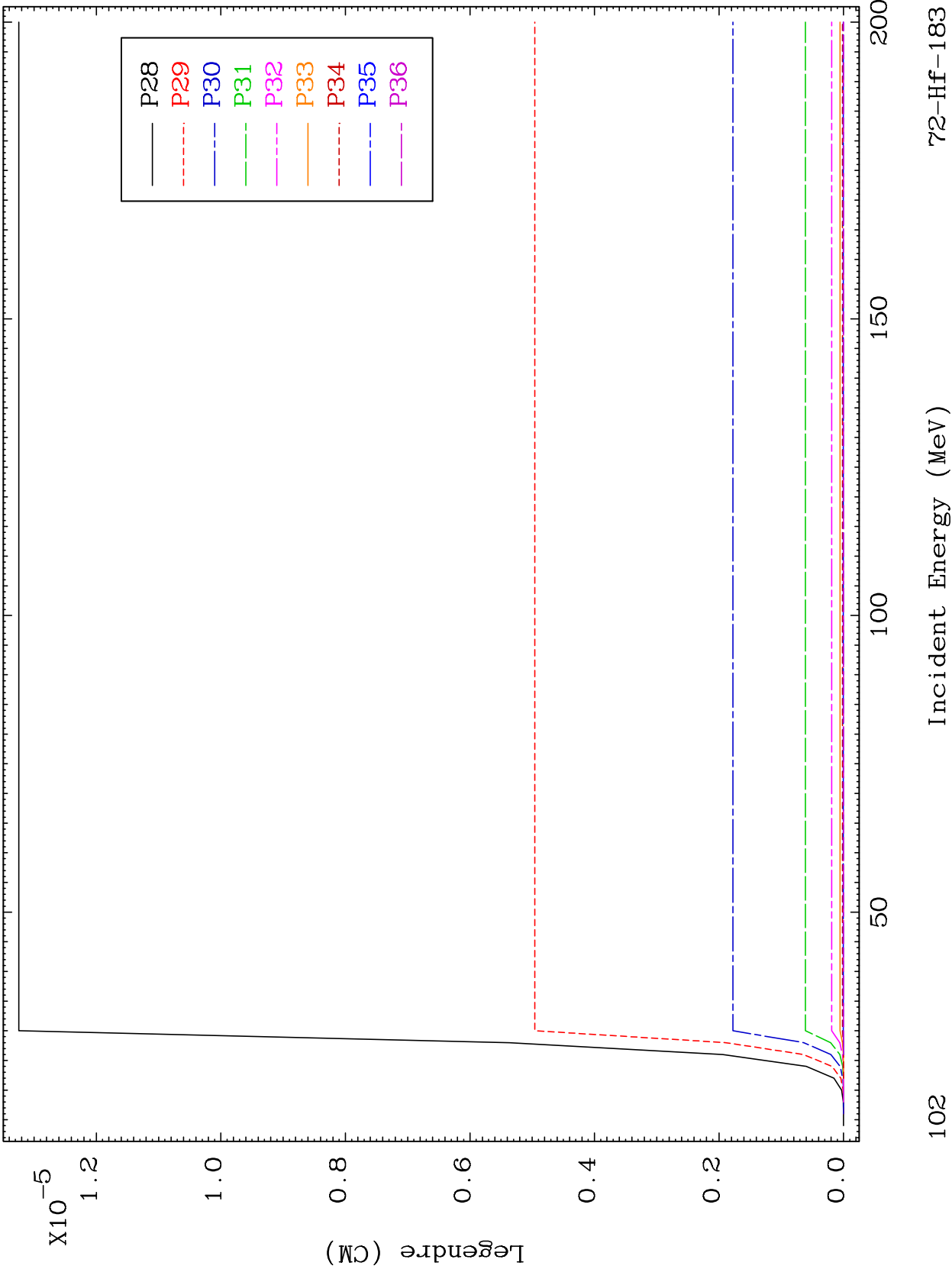
101

72-Hf-183

MAT 7252

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

72-Hf-183



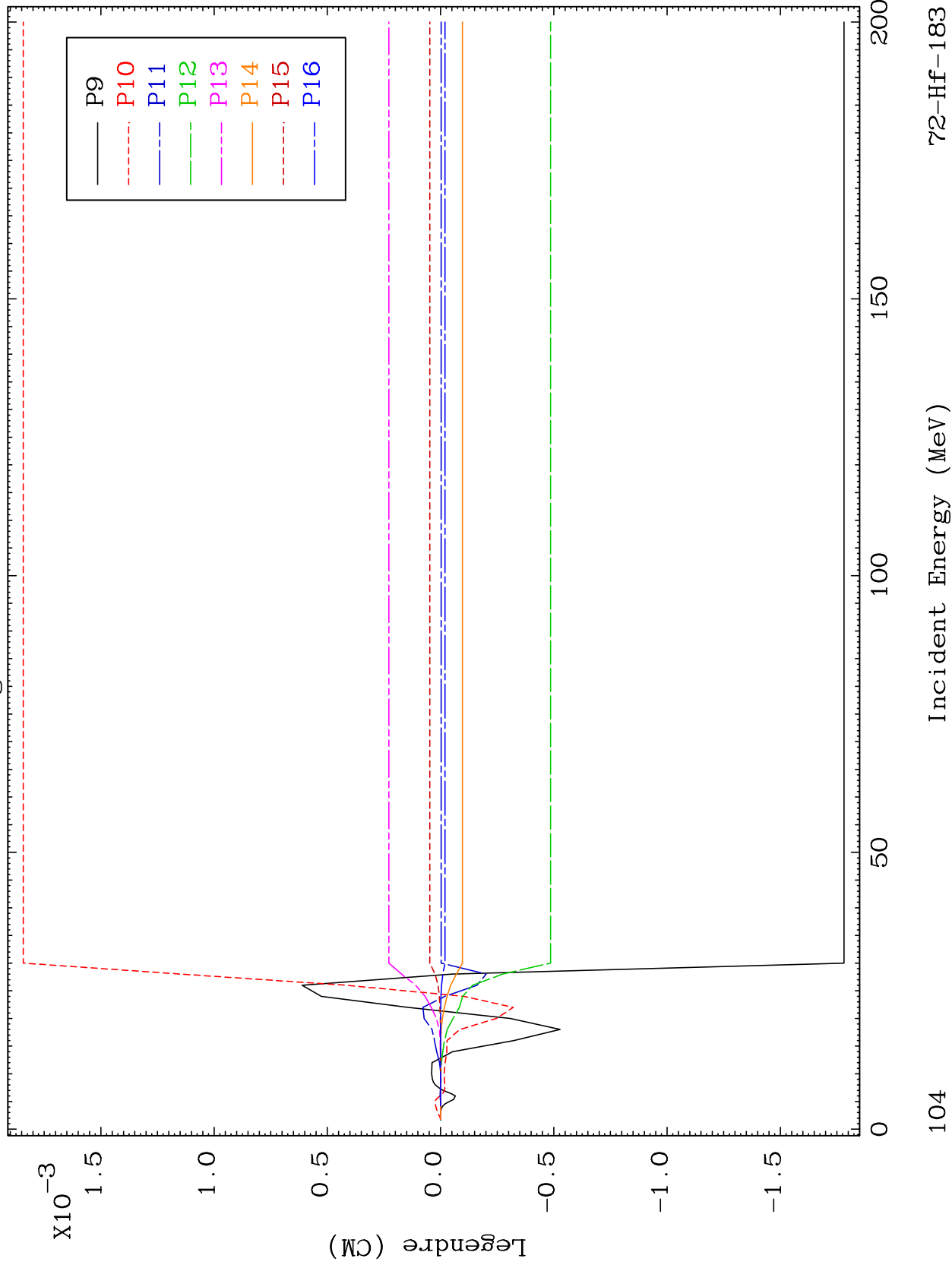




MAT 7252

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

72-Hf-183



104

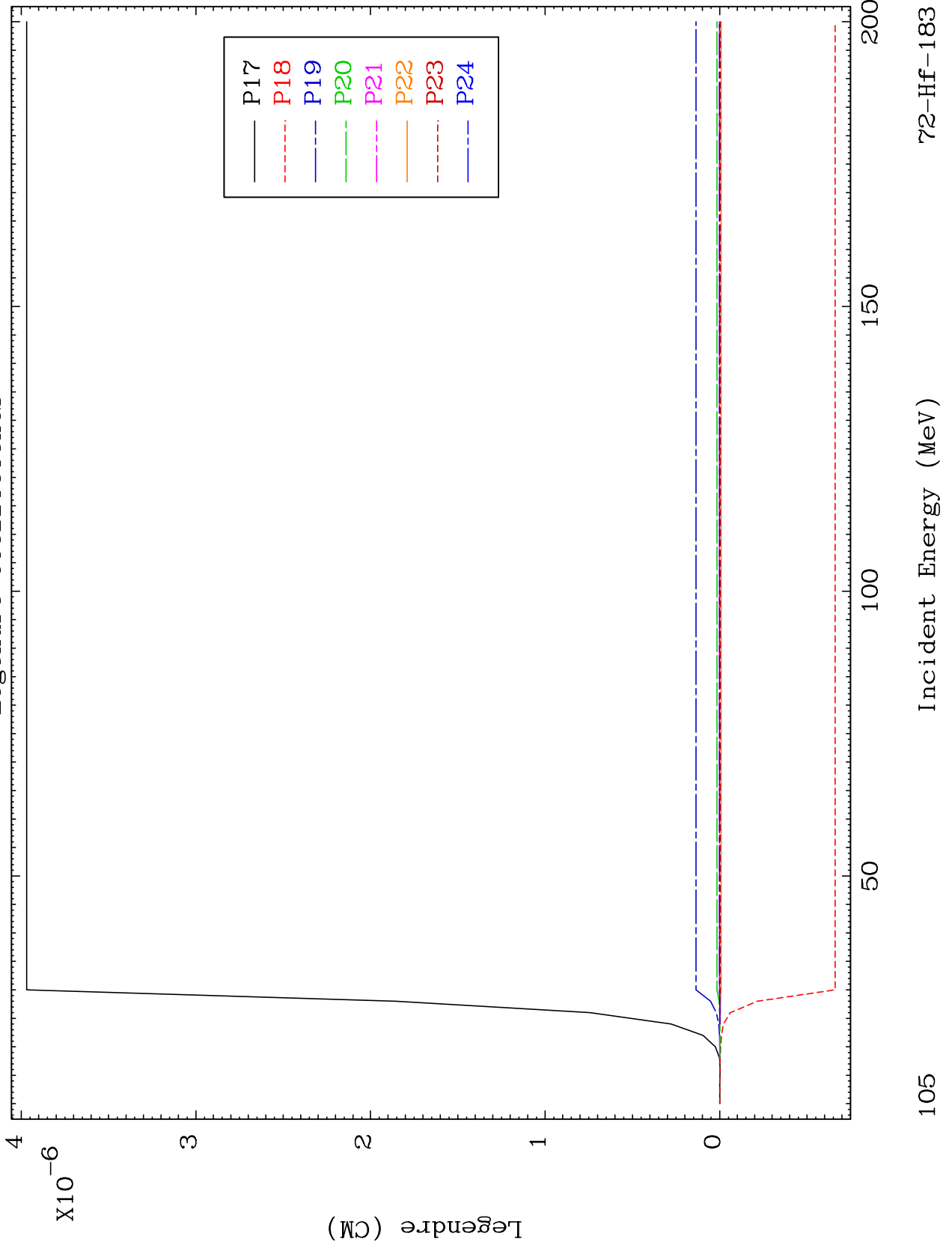
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



105

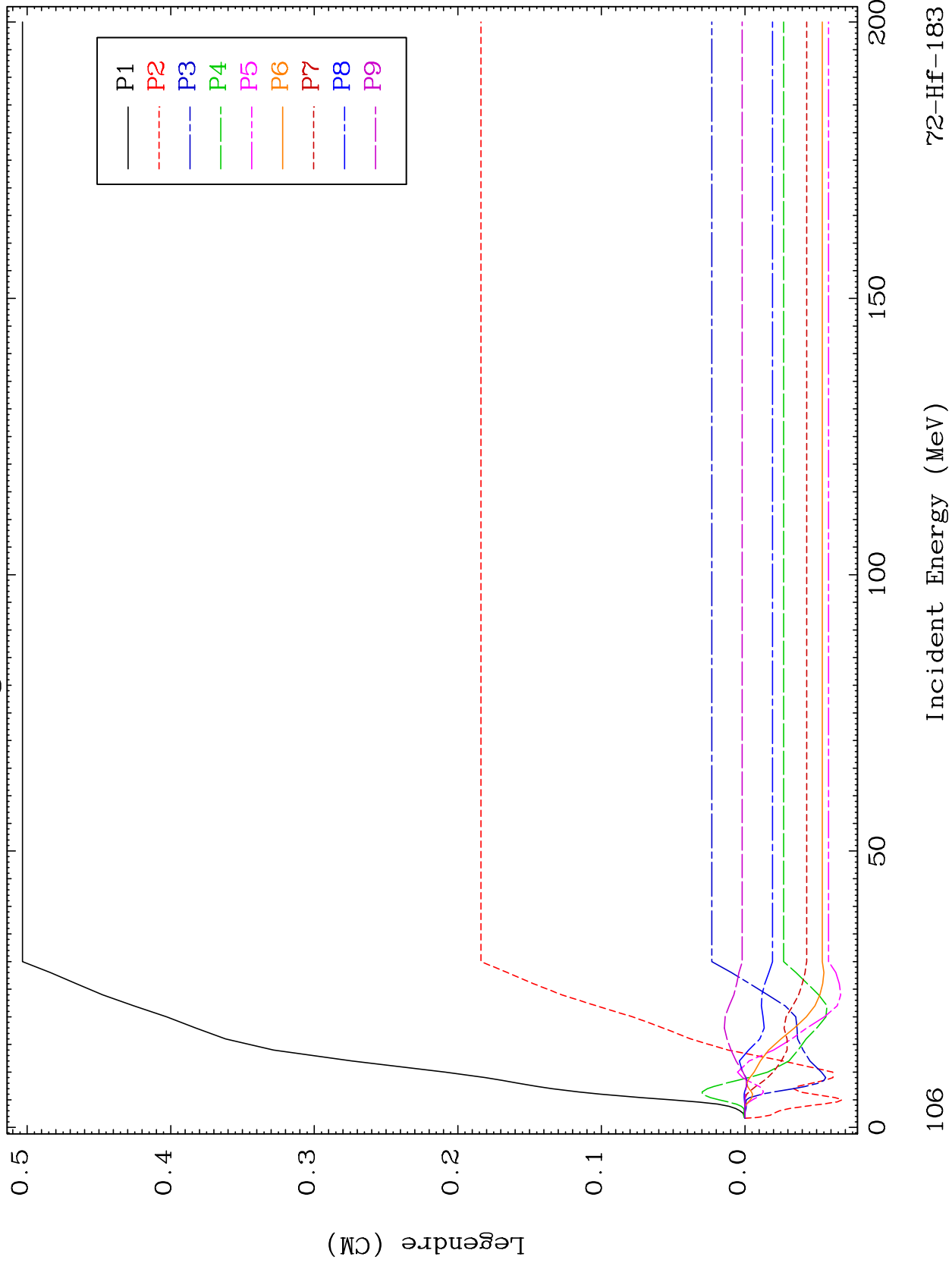
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



72-Hf-183

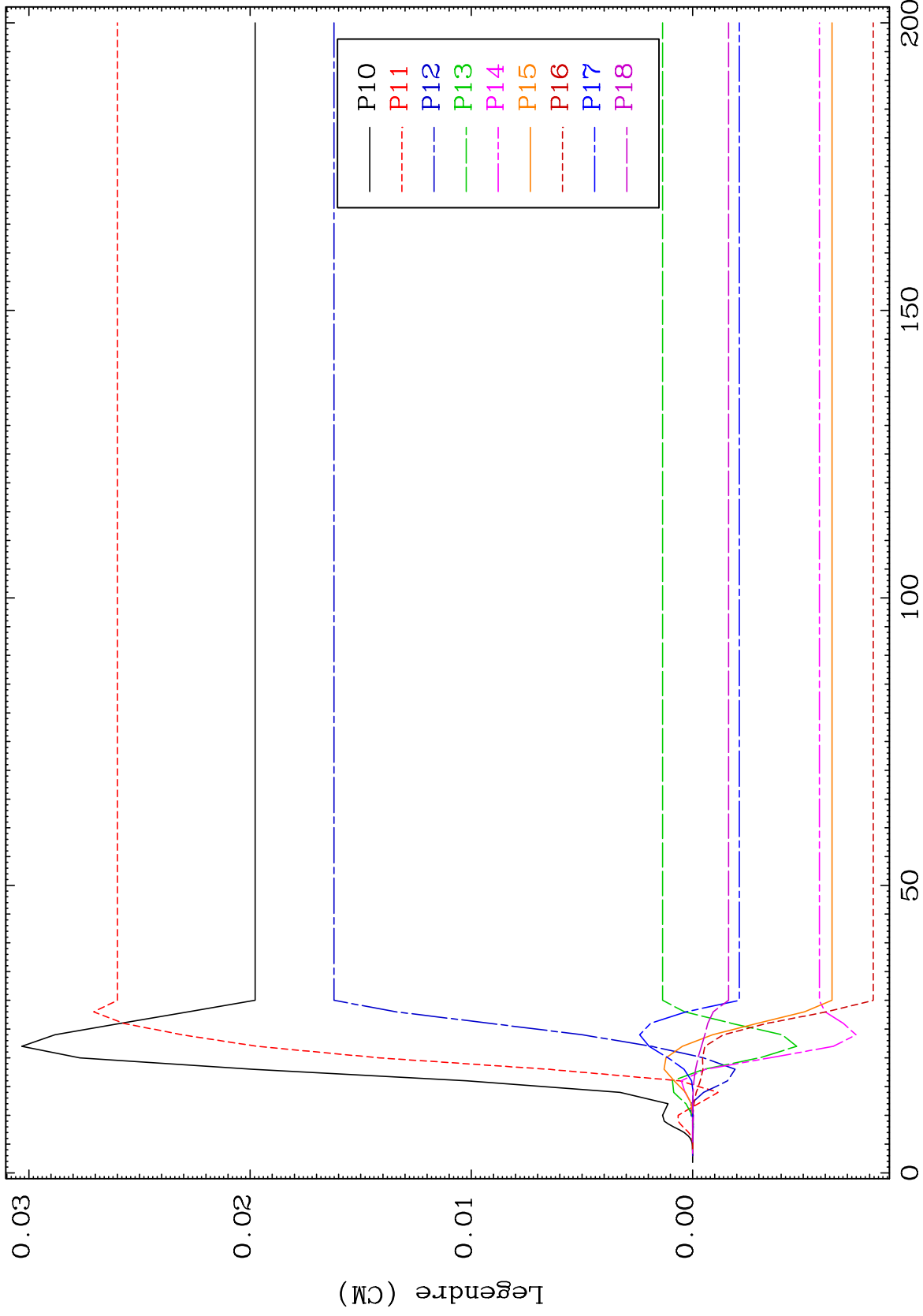
Incident Energy (MeV)

106

MAT 7252

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

72-Hf-183



107

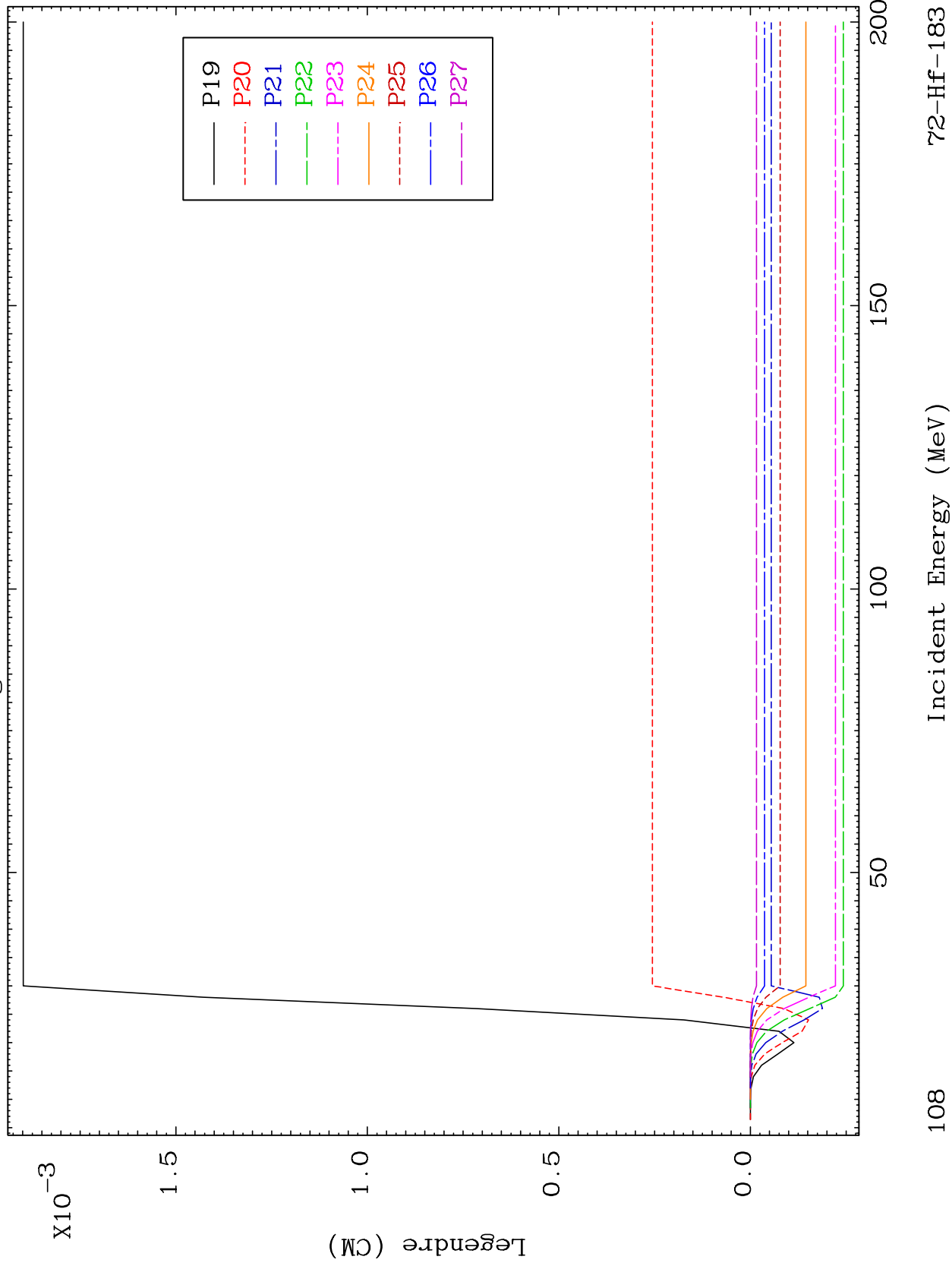
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183

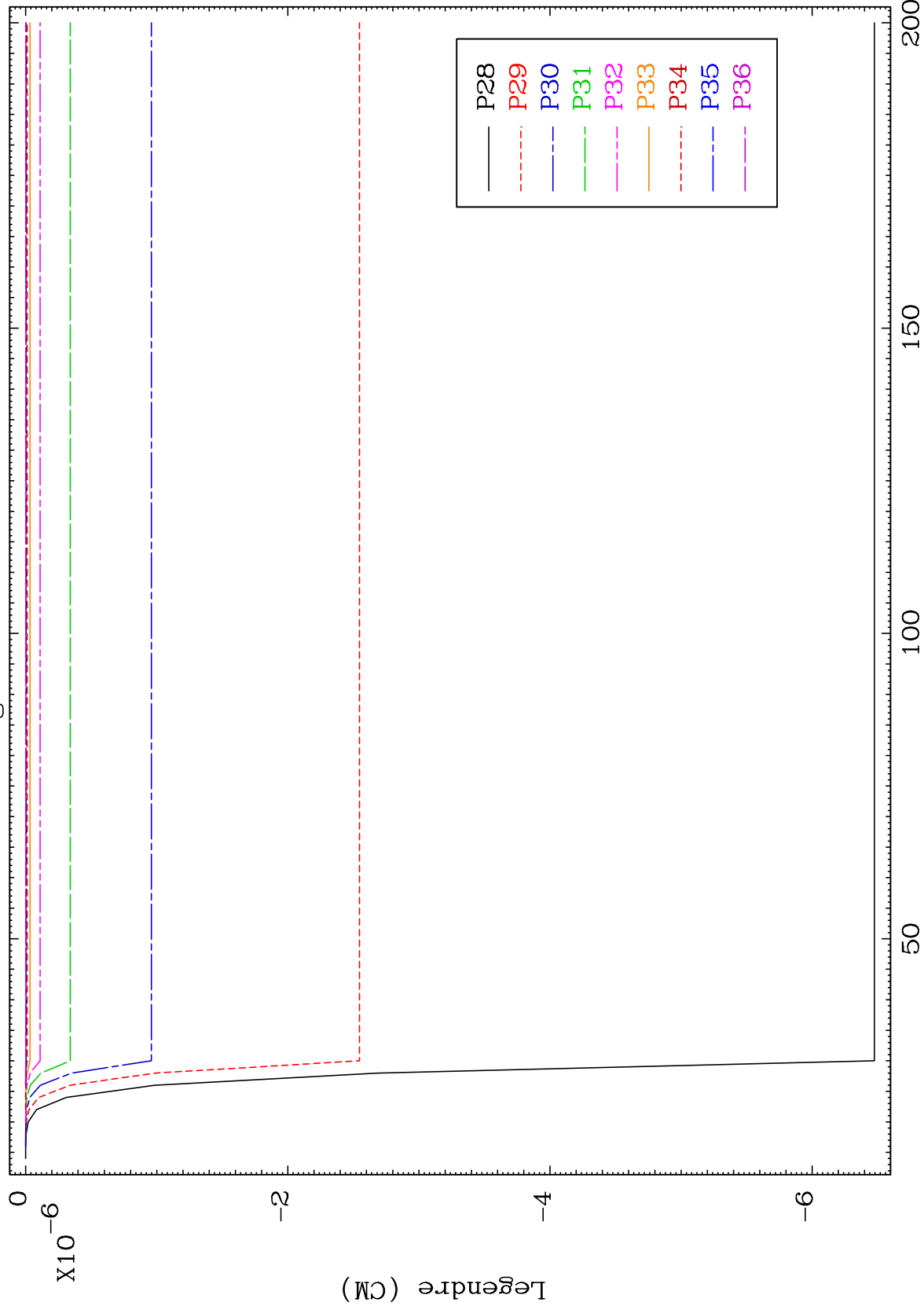


108

MAT 7252

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

72-Hf-183



72-Hf-183

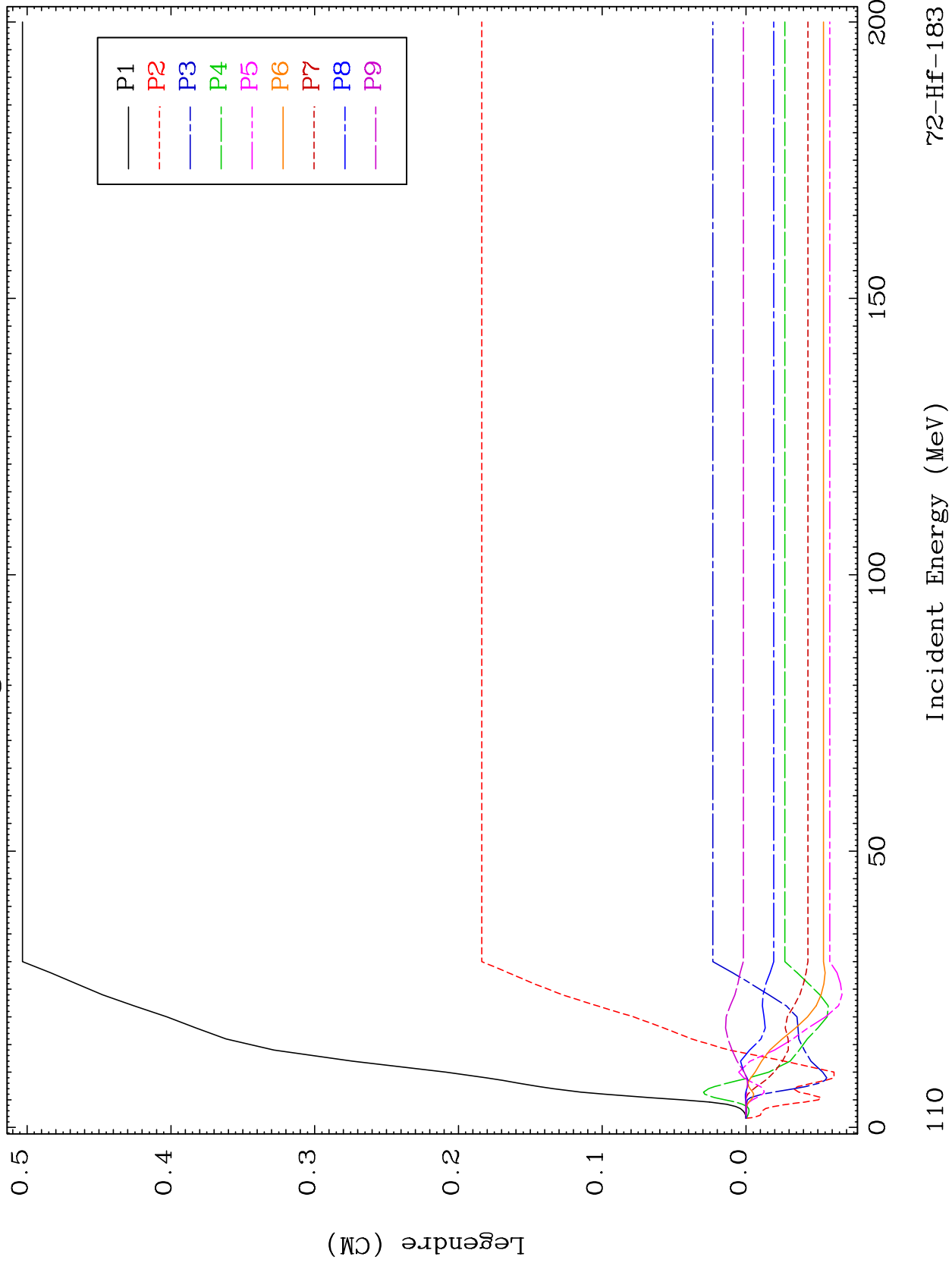
Incident Energy (MeV)

109

MAT 7252

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

72-Hf-183



72-Hf-183

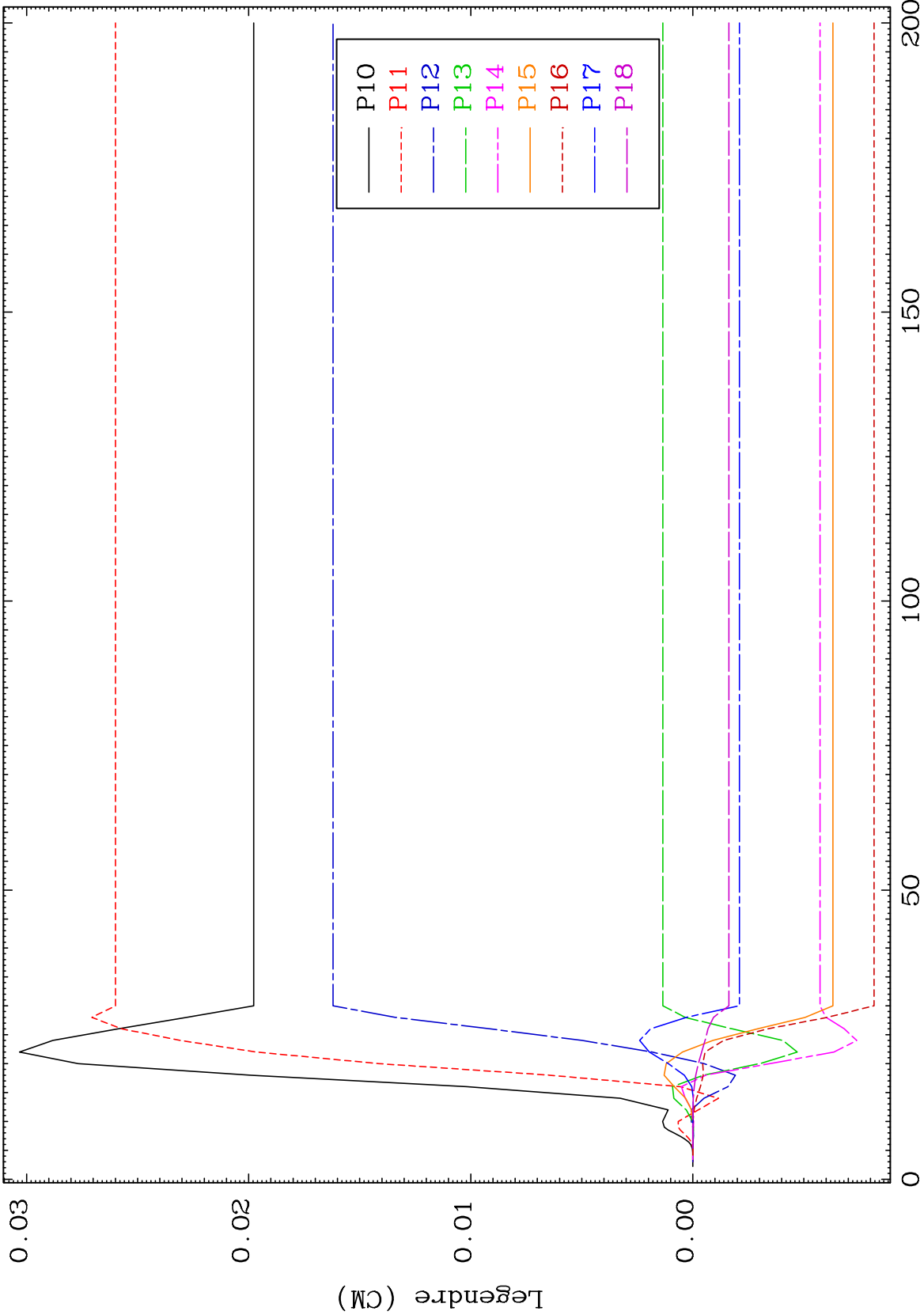
Incident Energy (MeV)

110

MAT 7252

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

72-Hf-183



111

Incident Energy (MeV)

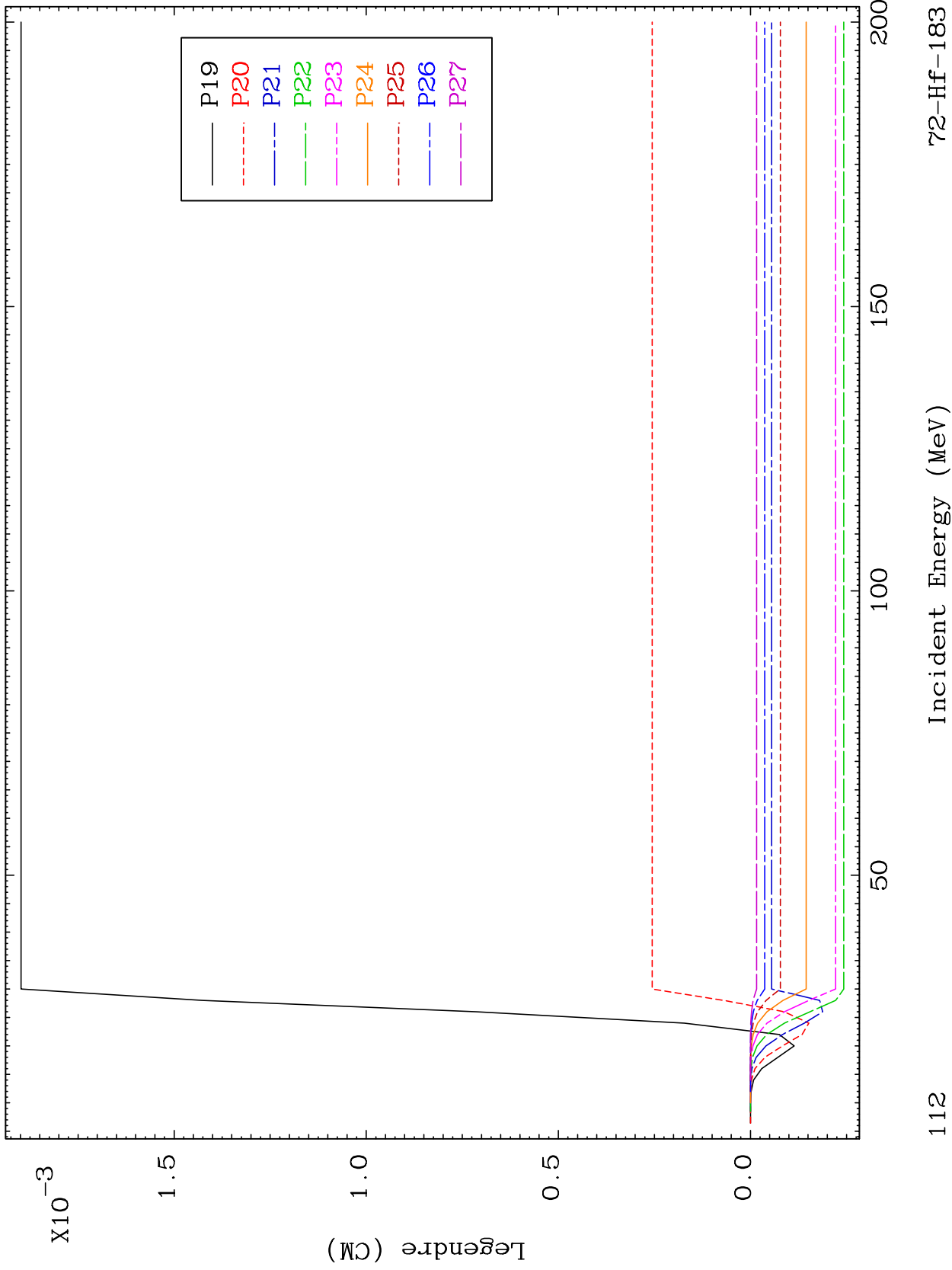
72-Hf-183



MAT 7252

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

72-Hf-183



112

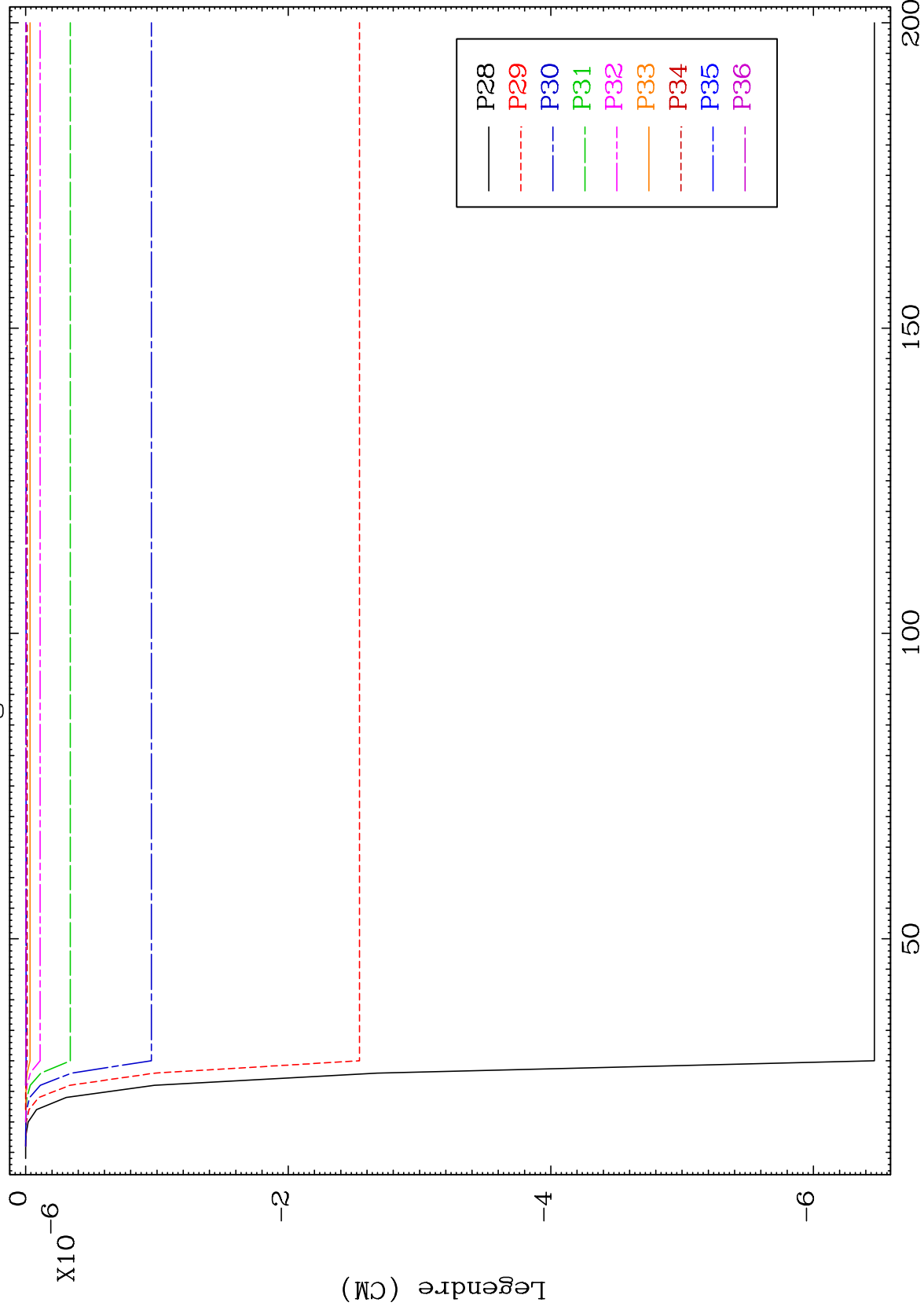
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



113

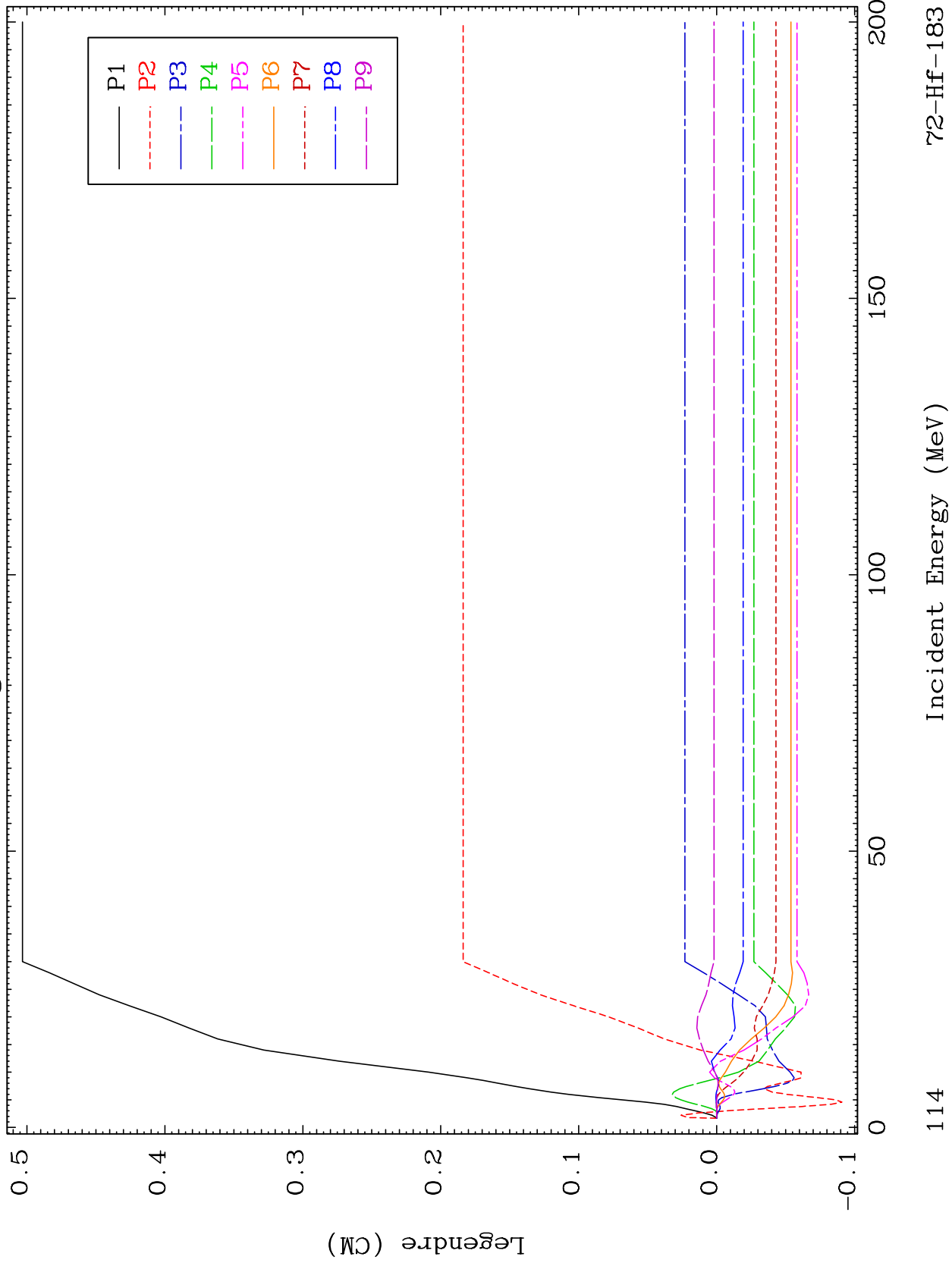
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



72-Hf-183

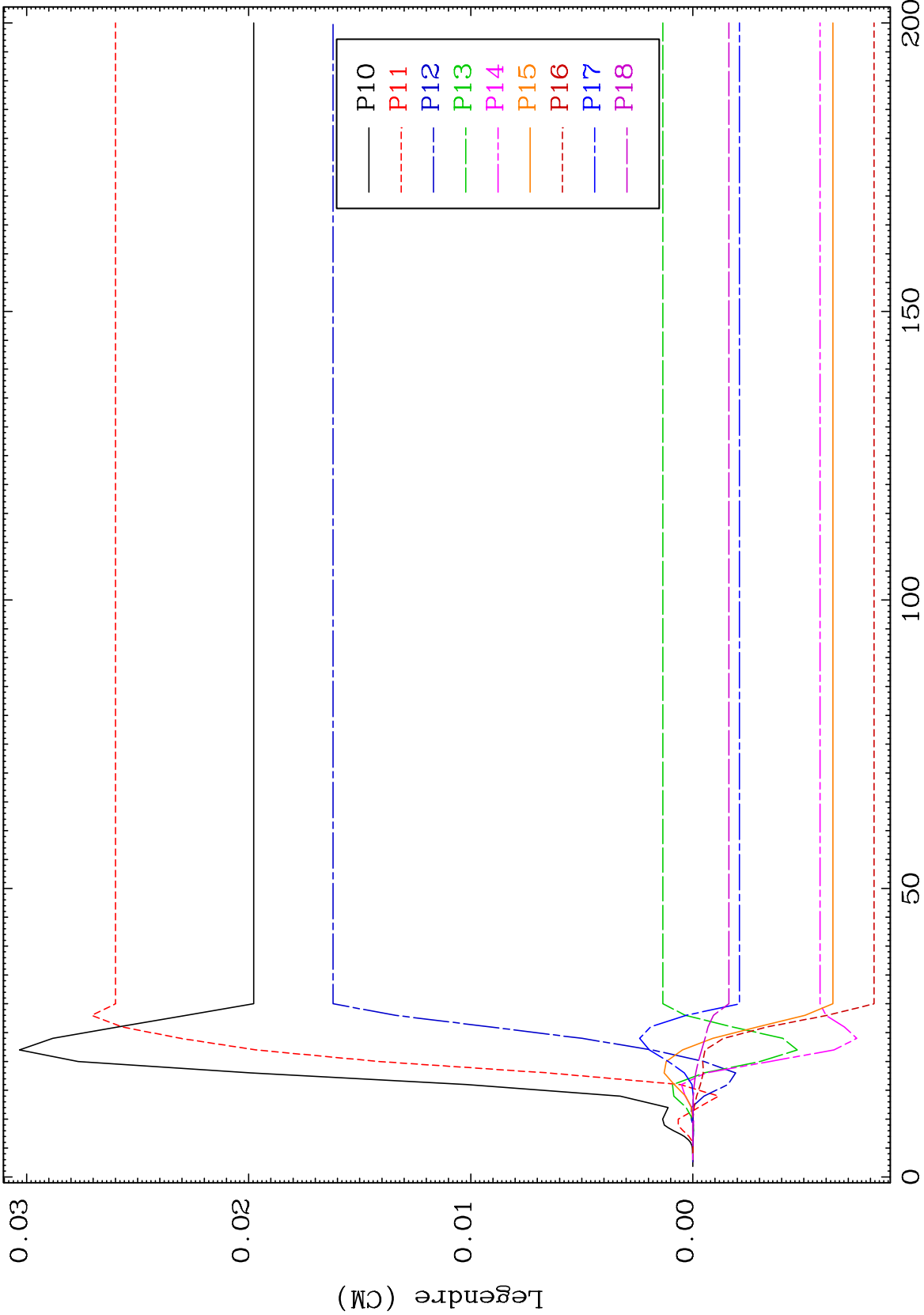
Incident Energy (MeV)

114

MAT 7252

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

72-Hf-183



115

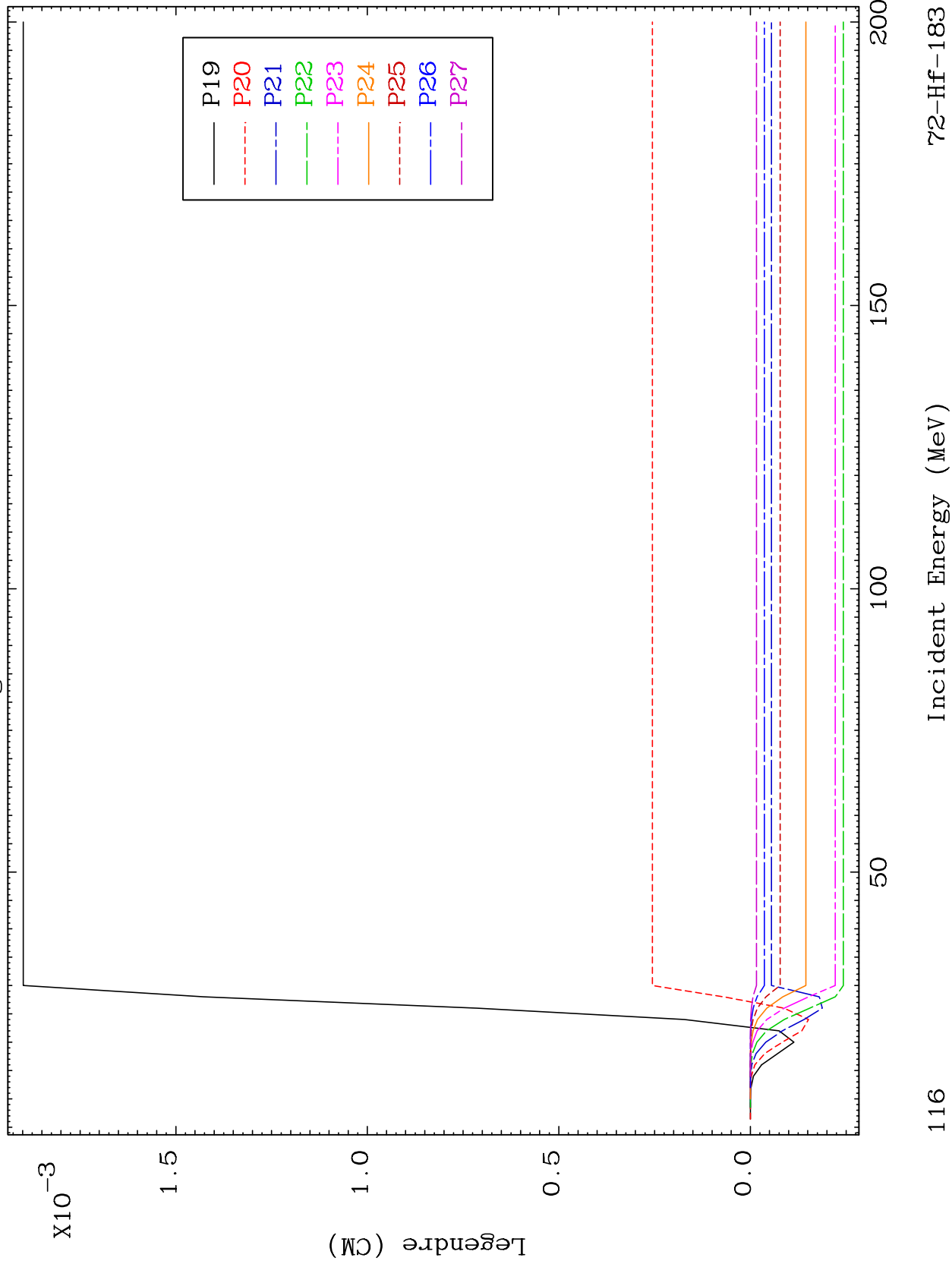
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



116

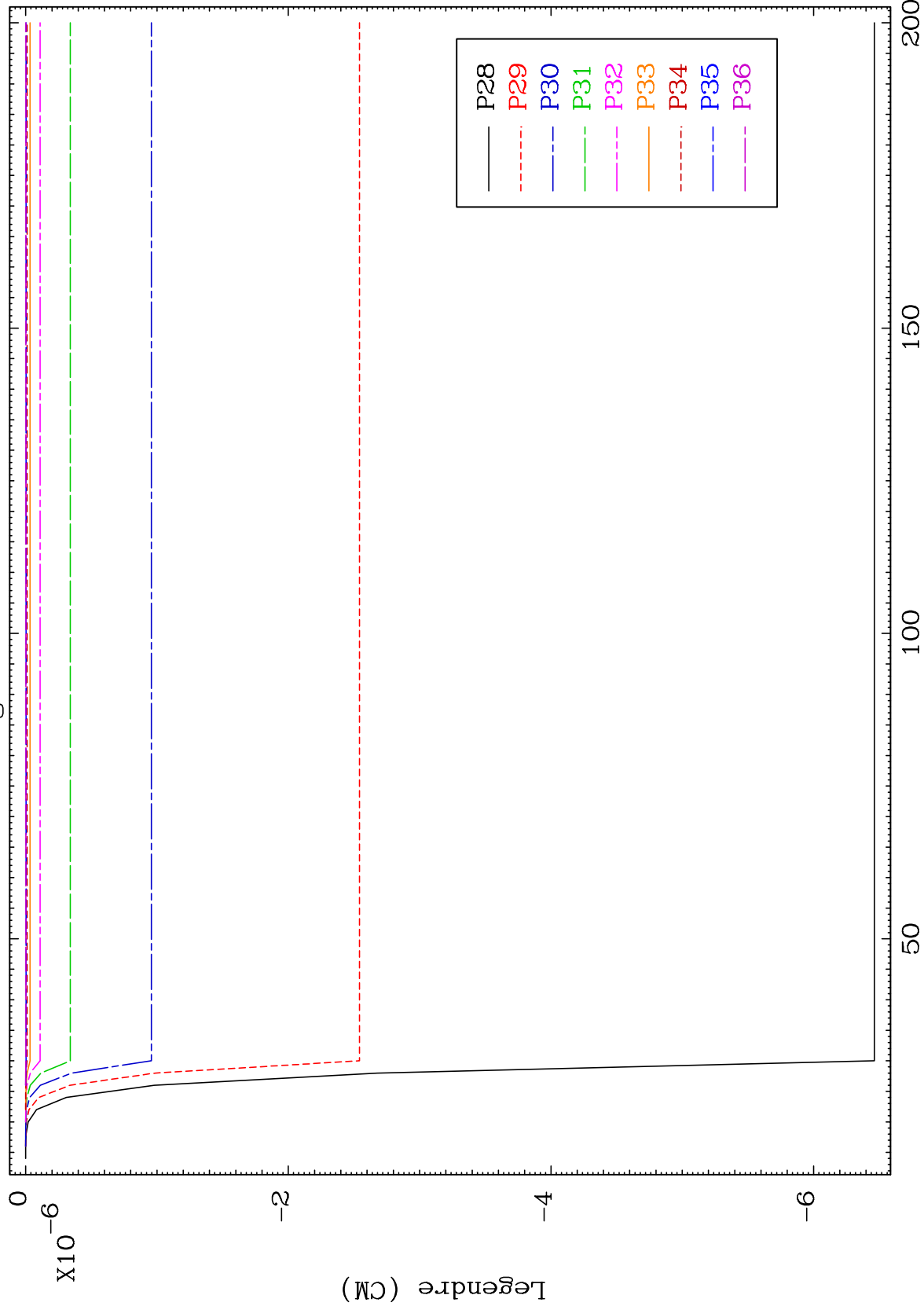
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



72-Hf-183

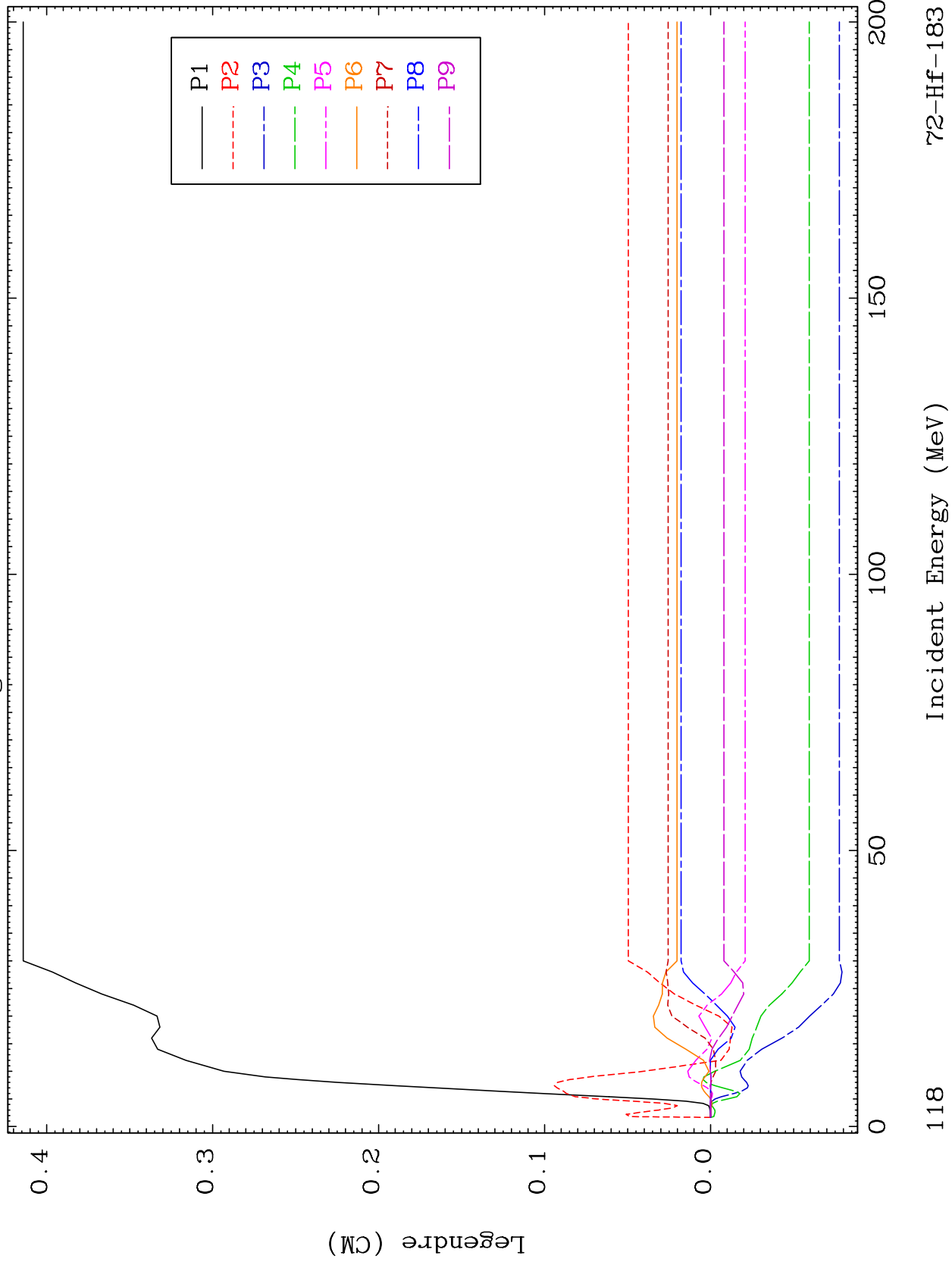
Incident Energy (MeV)

117

MAT 7252

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

72-Hf-183



72-Hf-183

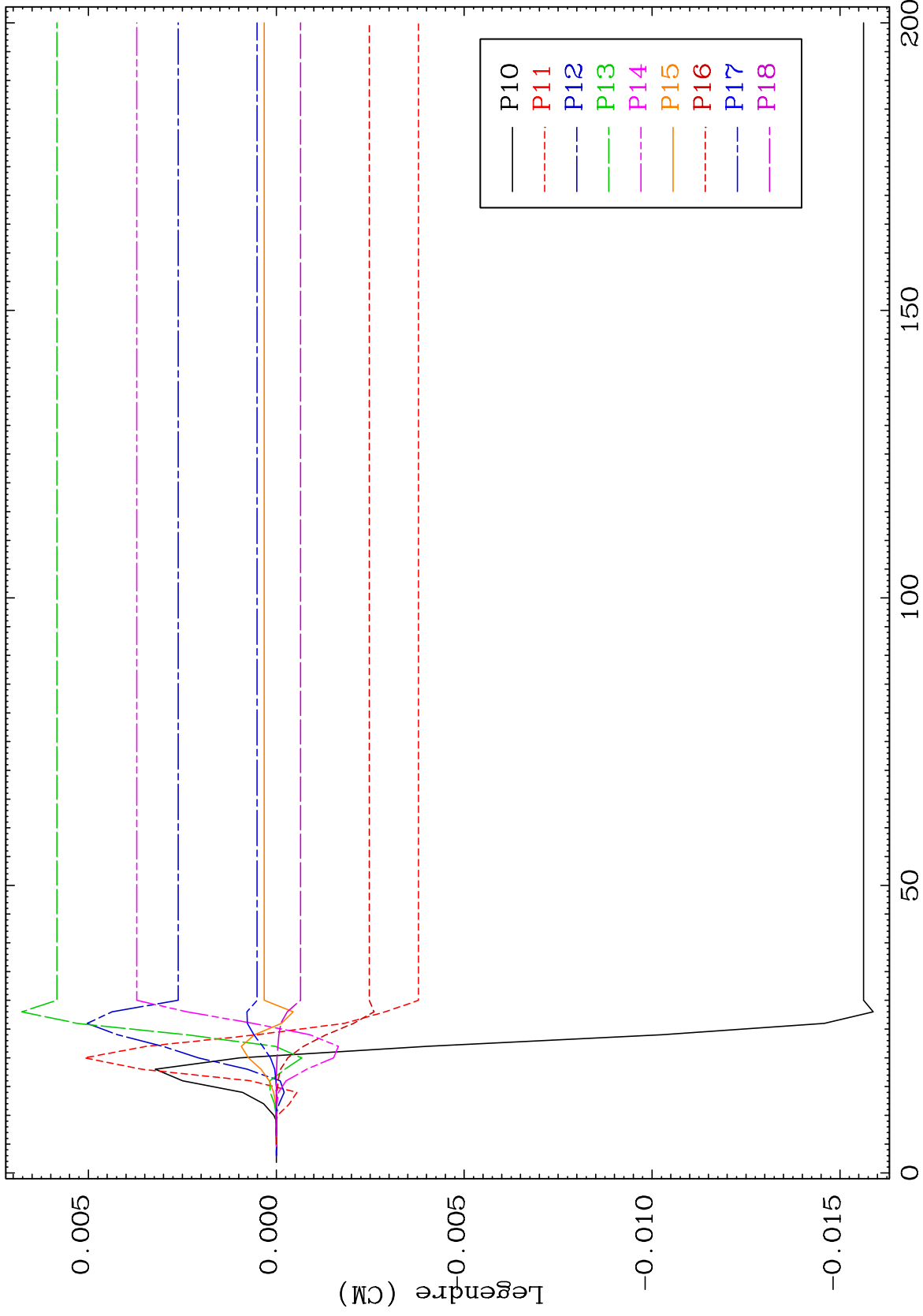
Incident Energy (MeV)

118

MAT 7252

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

72-Hf-183



119

Incident Energy (MeV)

72-Hf-183

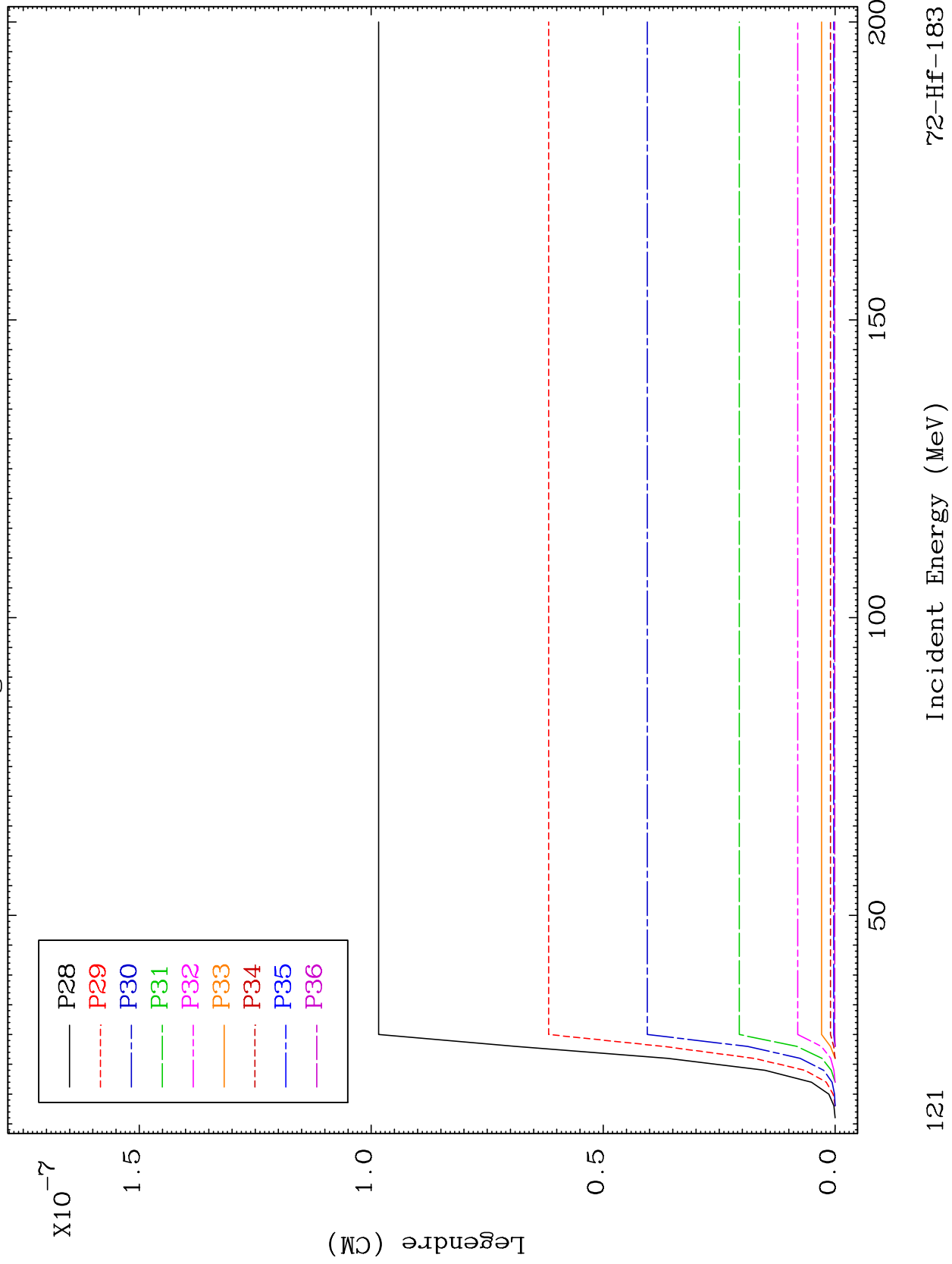




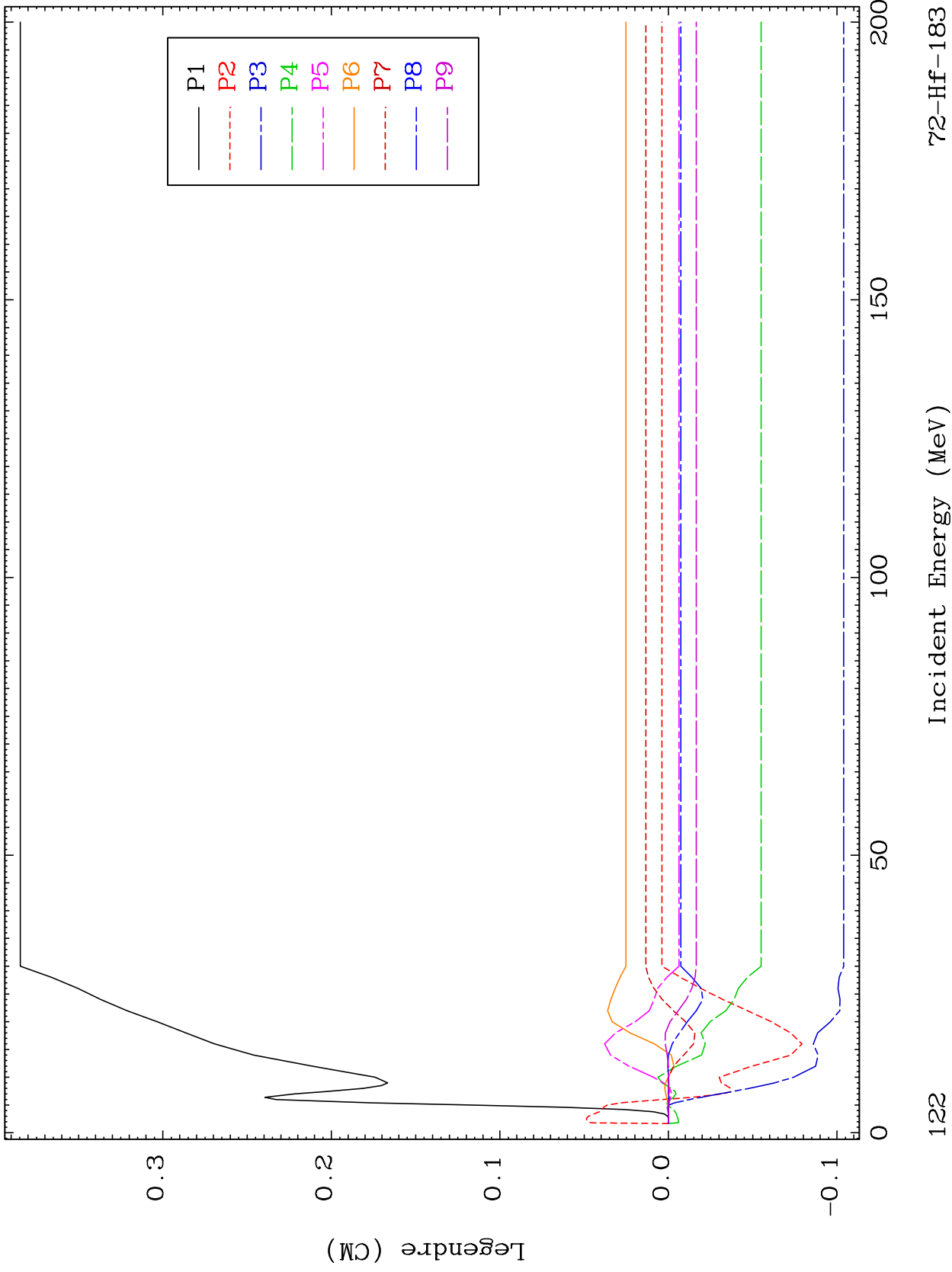
MAT 7252

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

72-Hf-183



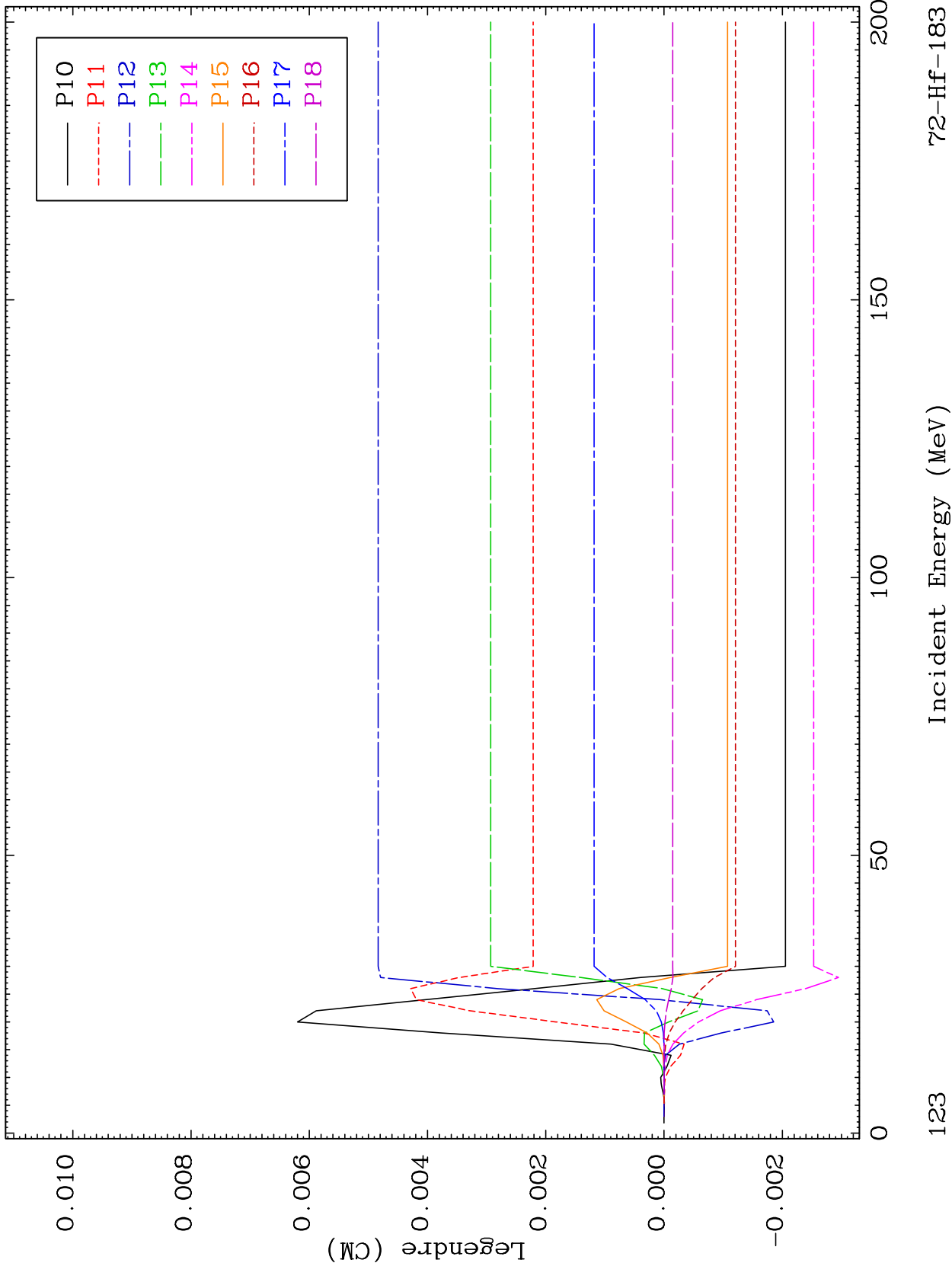
121



MAT 7252

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

72-Hf-183



123

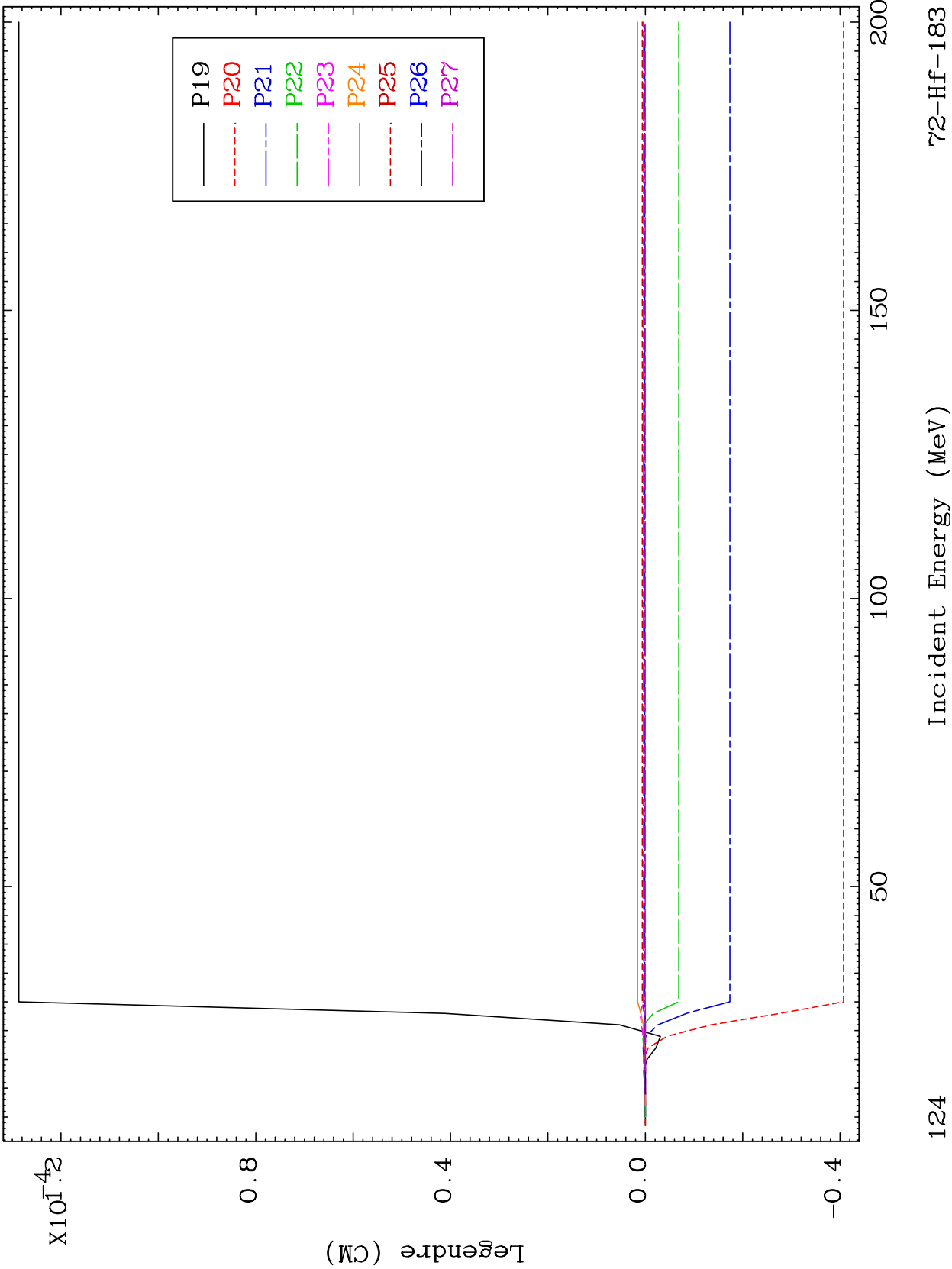
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



124

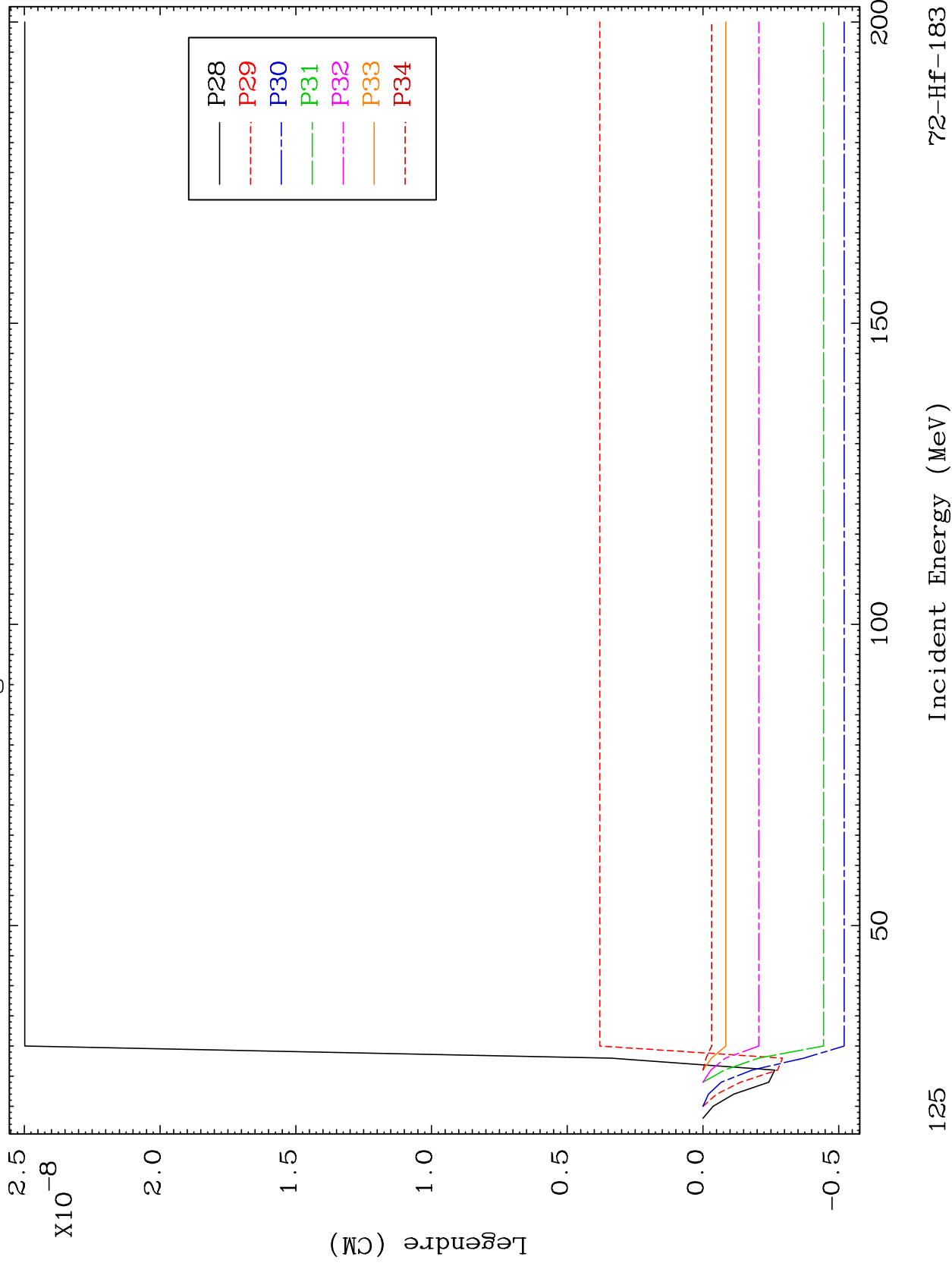
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



72-Hf-183

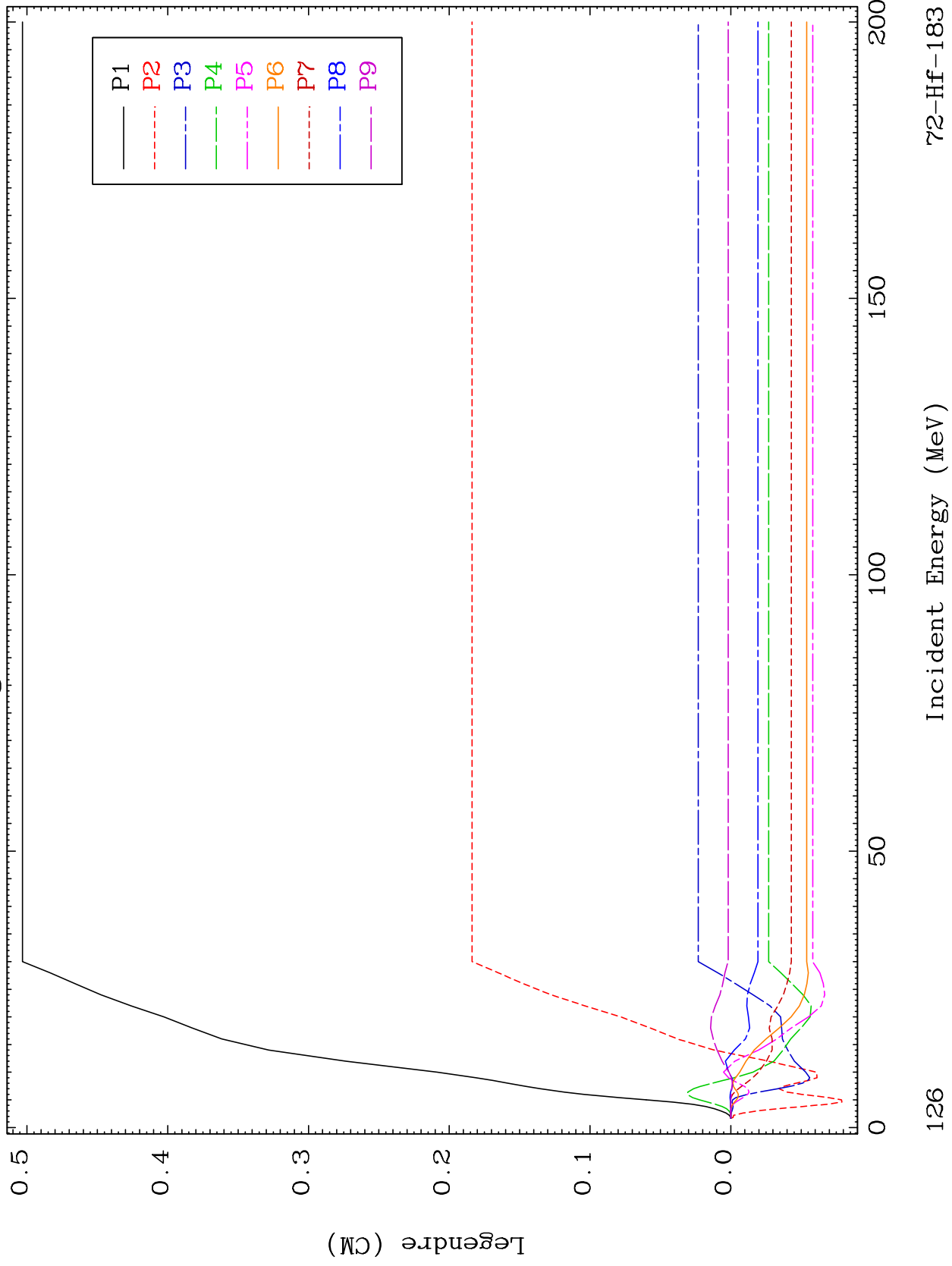
Incident Energy (MeV)

125

MAT 7252

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

72-Hf-183



72-Hf-183

Incident Energy (MeV)

126

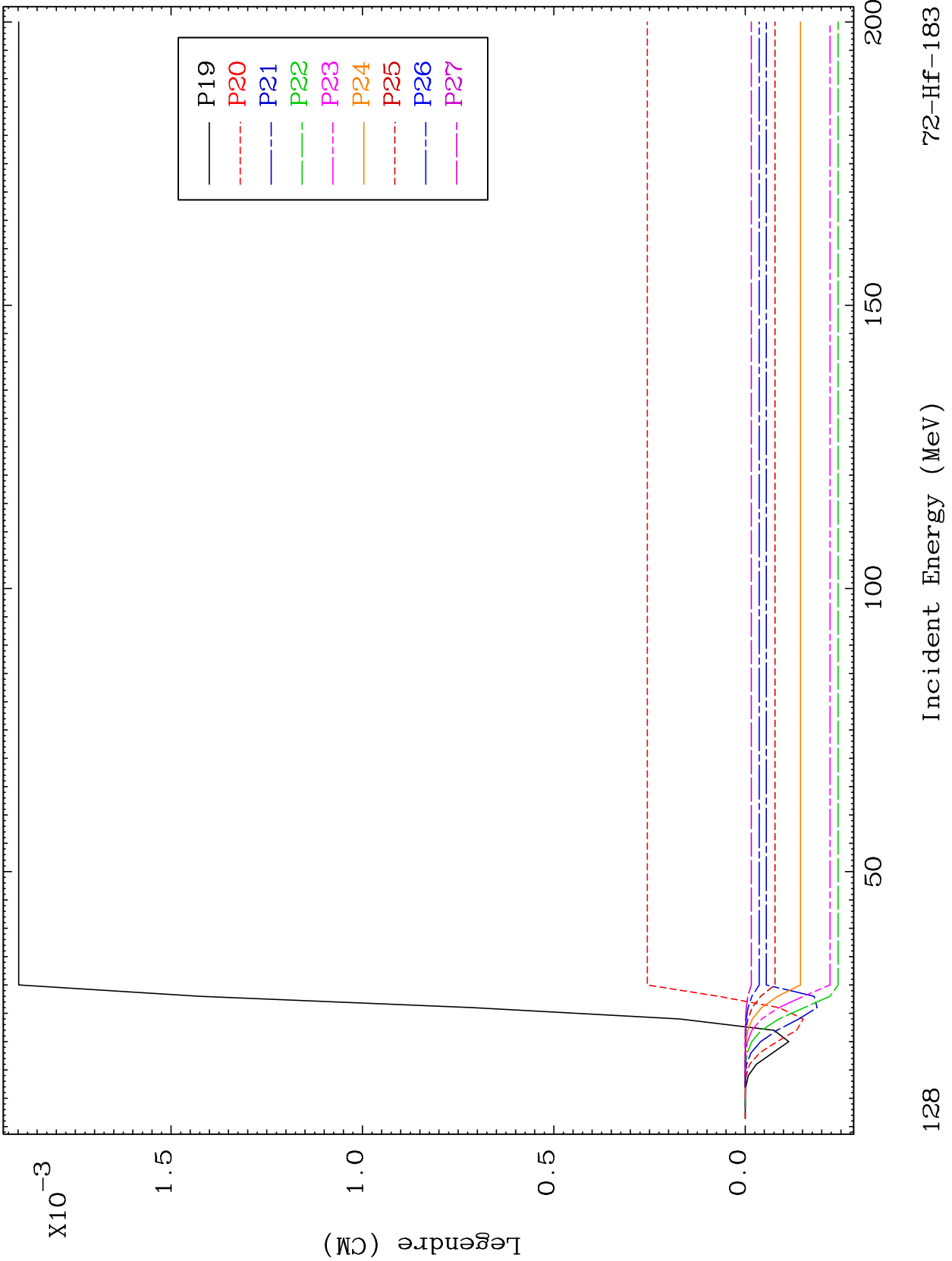




MAT 7252

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

72-Hf-183



128

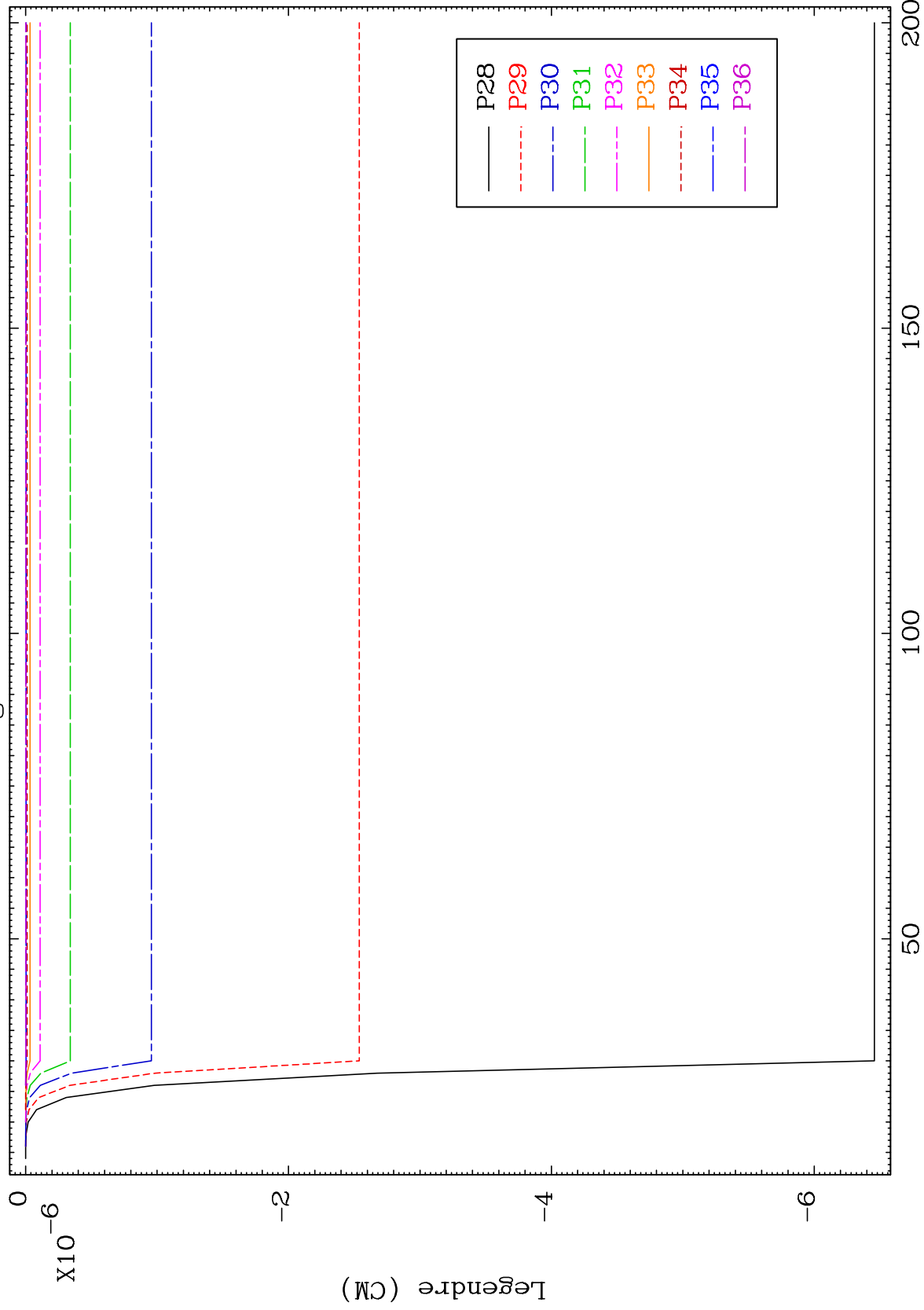
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



129

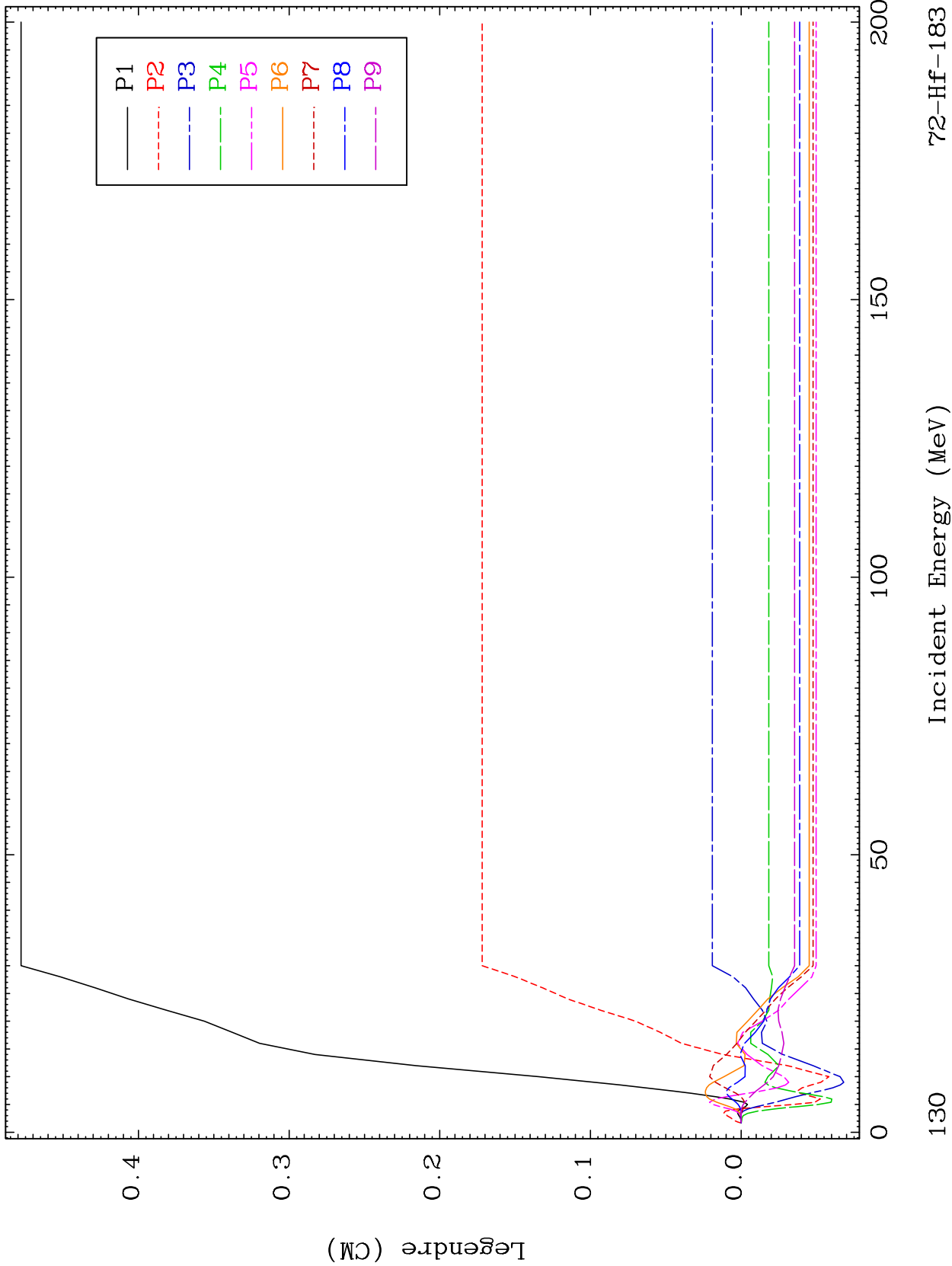
Incident Energy (MeV)

72-Hf-183

MAT 7252

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

72-Hf-183



72-Hf-183

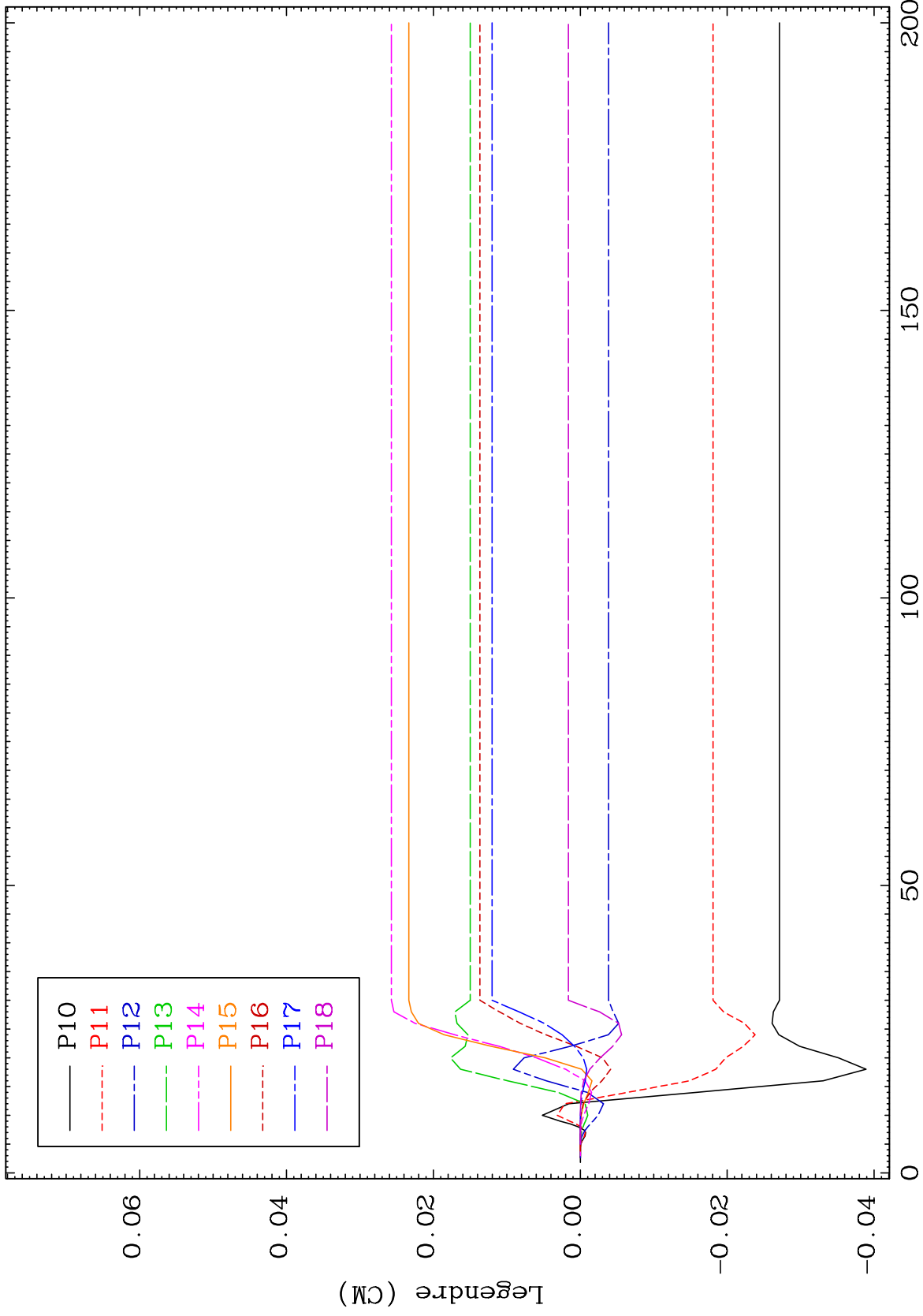
Incident Energy (MeV)

Legendre (CM)

MAT 7252

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

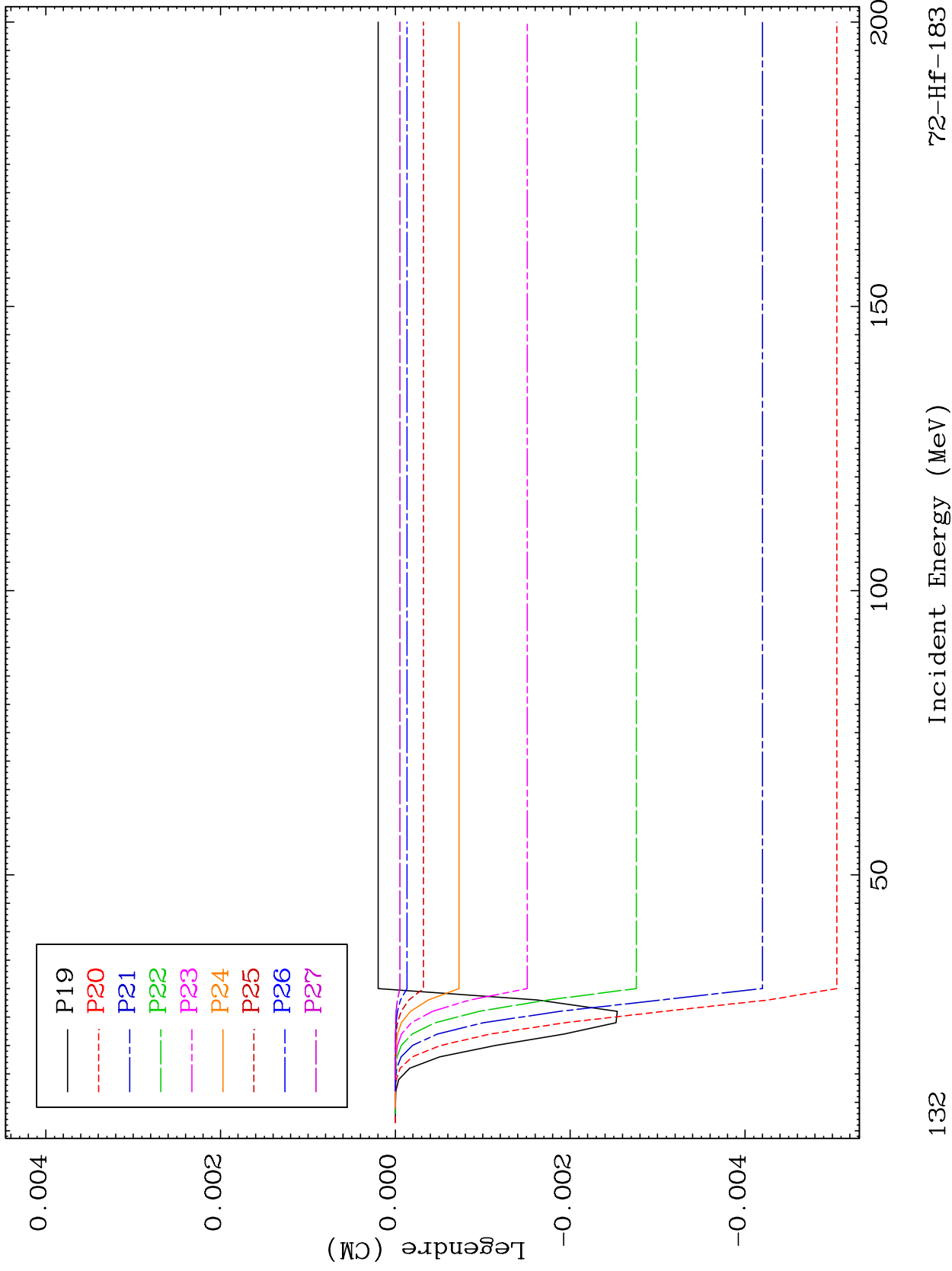
72-Hf-183

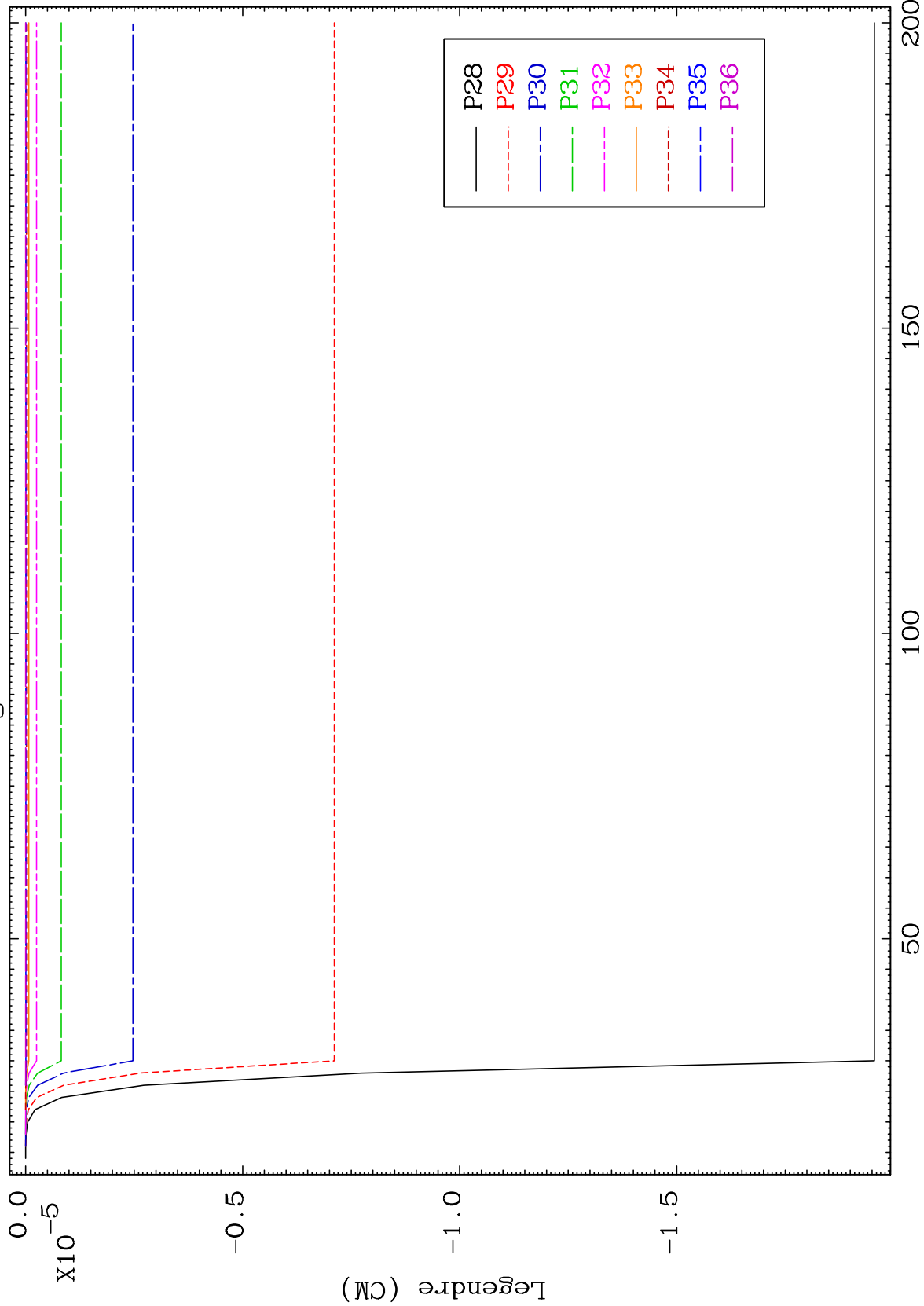


131

Incident Energy (MeV)

72-Hf-183



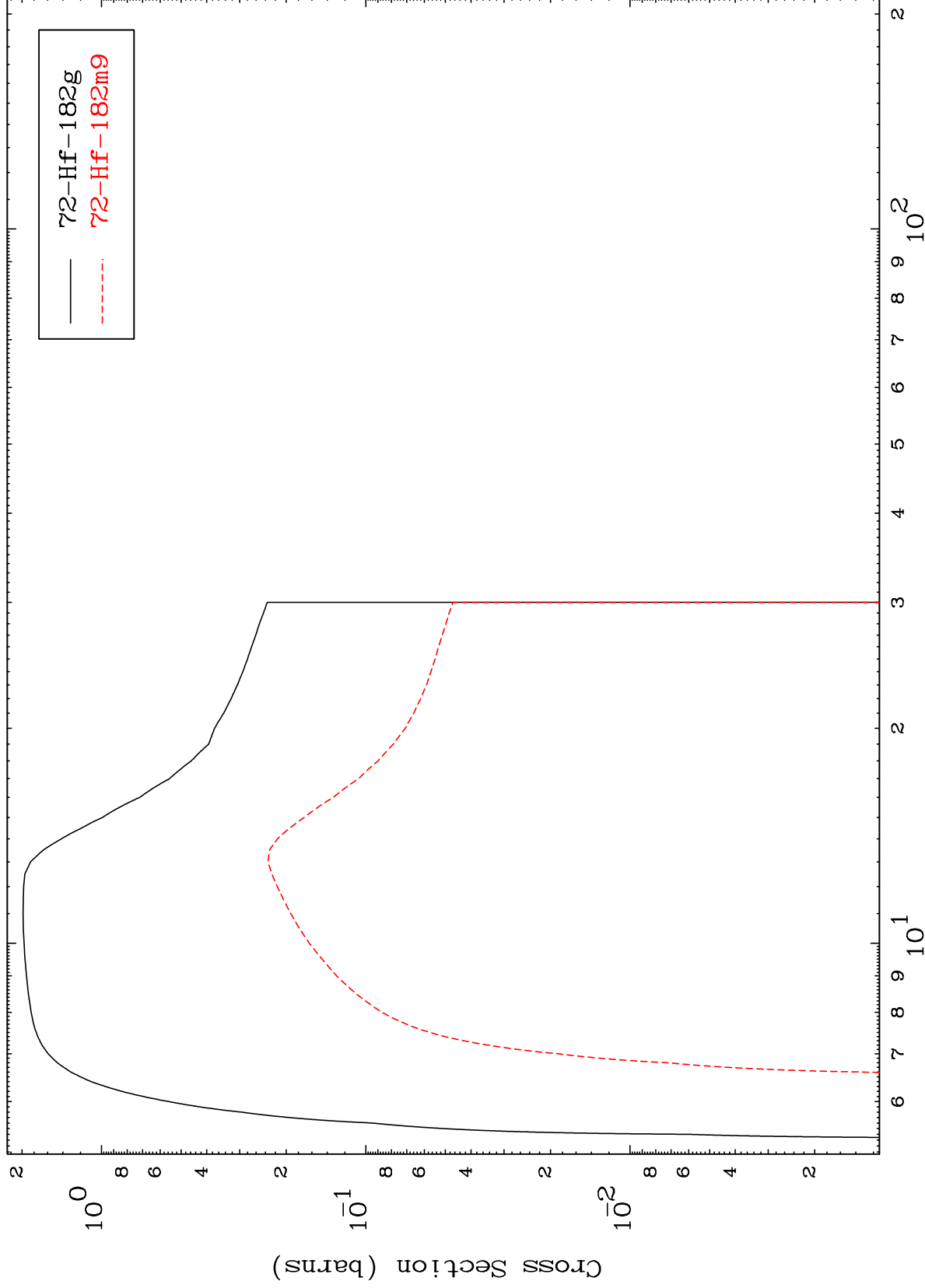


MAT 7252

(n,2n)

72-Hf-183

Radionuclide Production Cross Section



134

Incident Energy (MeV)

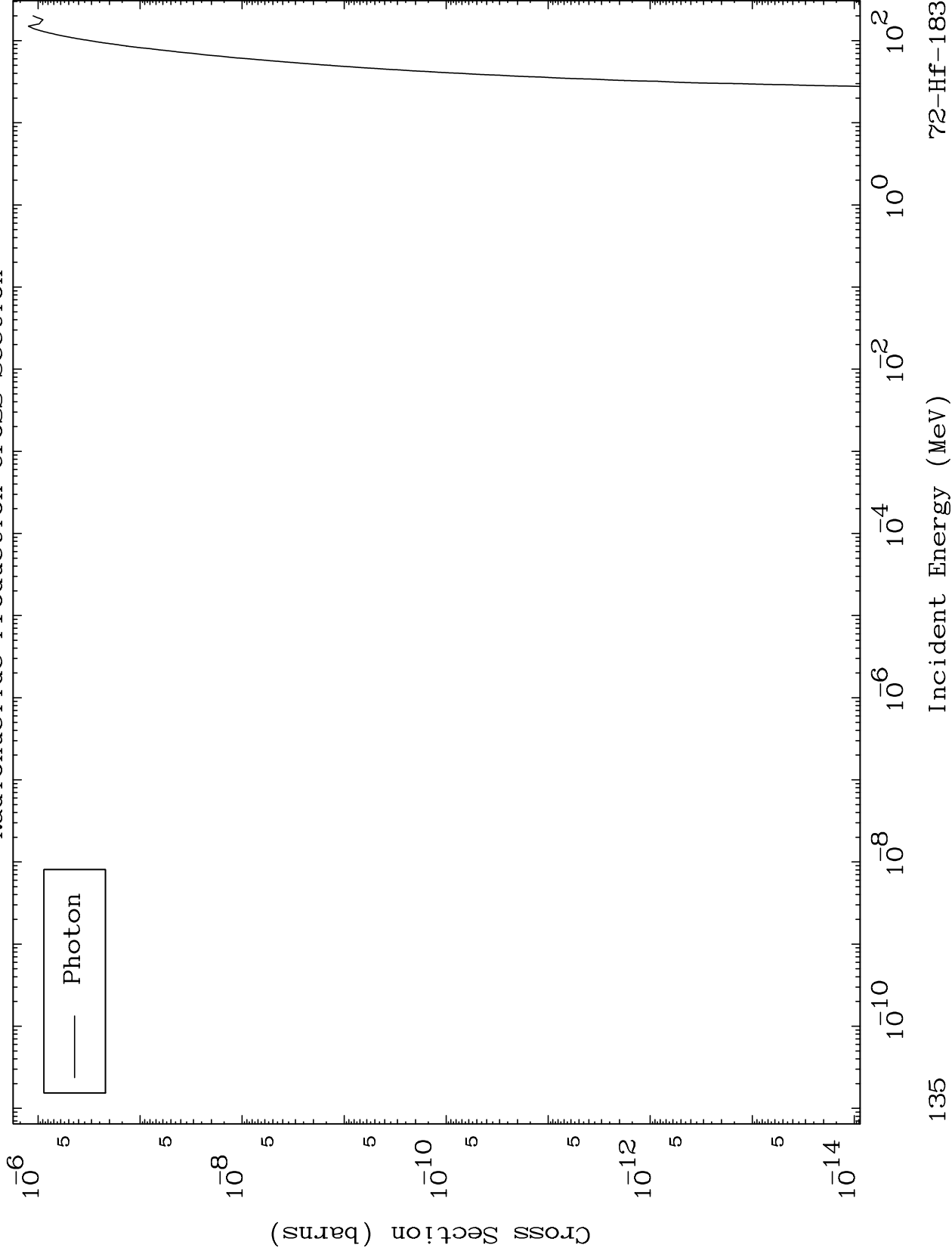
72-Hf-183

MAT 7252

Fission

72-Hf-183

Radionuclide Production Cross Section



135

Incident Energy (MeV)

72-Hf-183

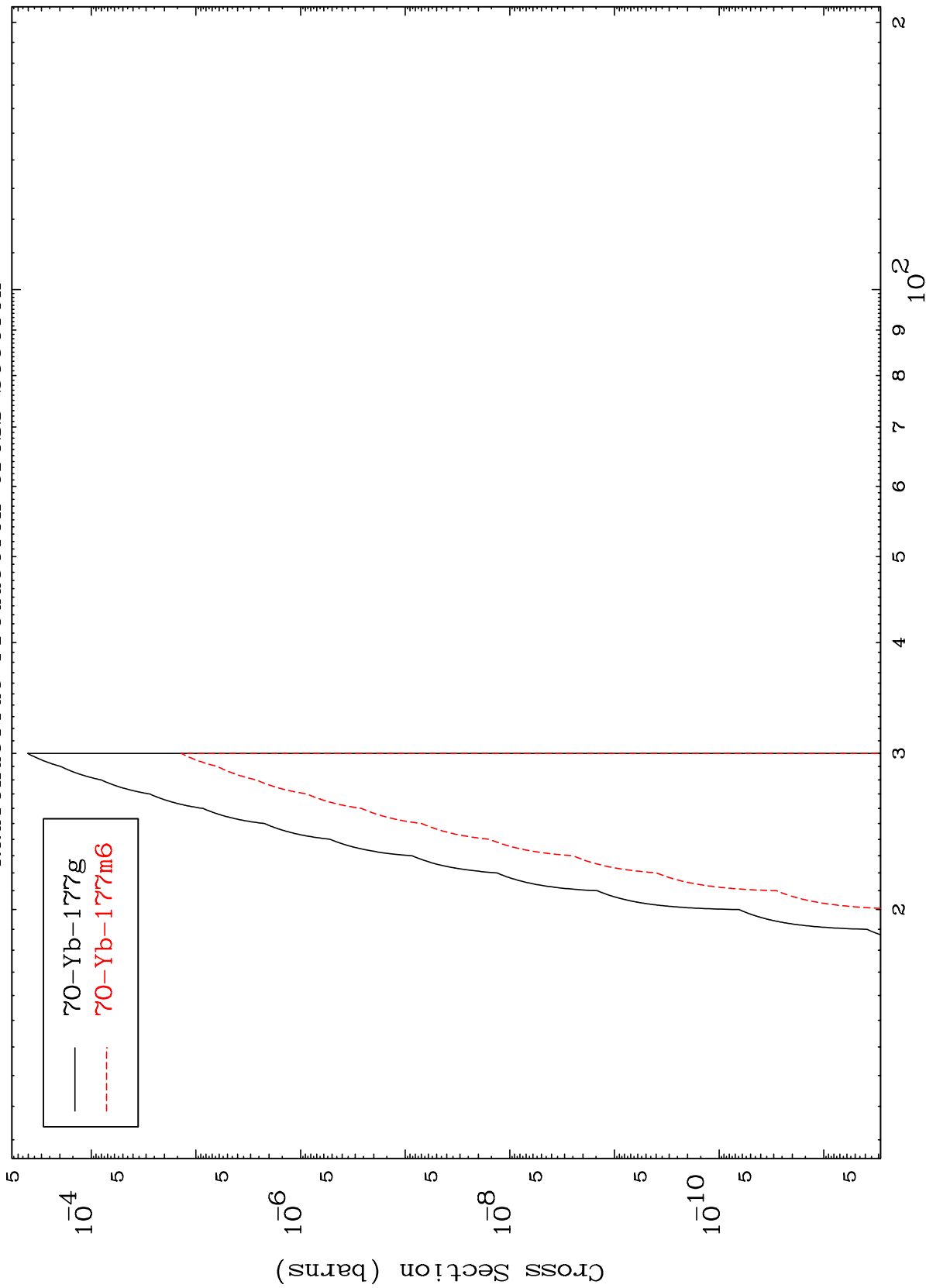


MAT 7252

(n,3n)  $\alpha$

72-Hf-183

Radionuclide Production Cross Section



136

Incident Energy (MeV)

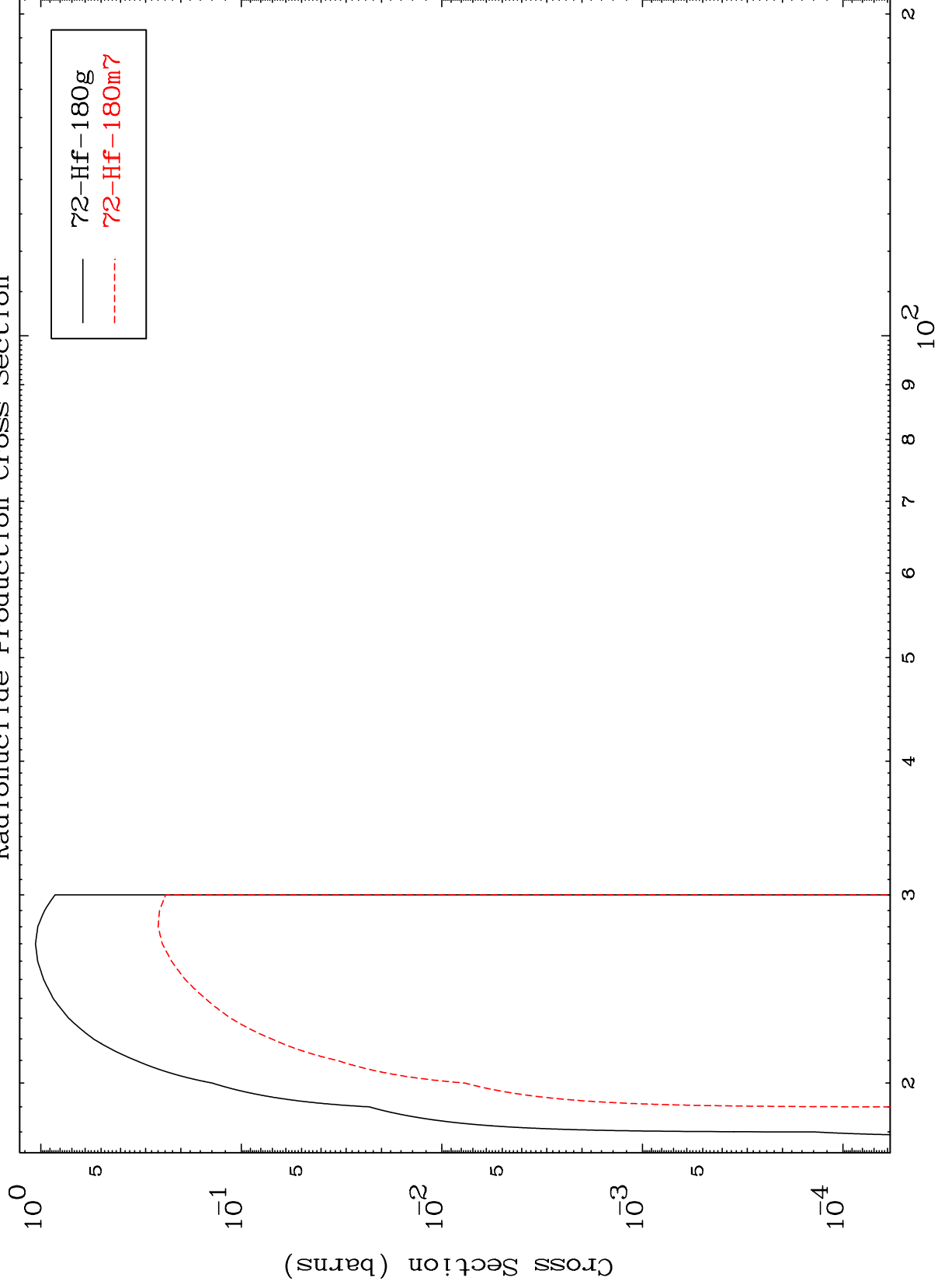
72-Hf-183

MAT 7252

(n,4n)

72-Hf-183

Radionuclide Production Cross Section



137

Incident Energy (MeV)

72-Hf-183

Radionuclide Production Cross Section

(n,  $\gamma$ )

