

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

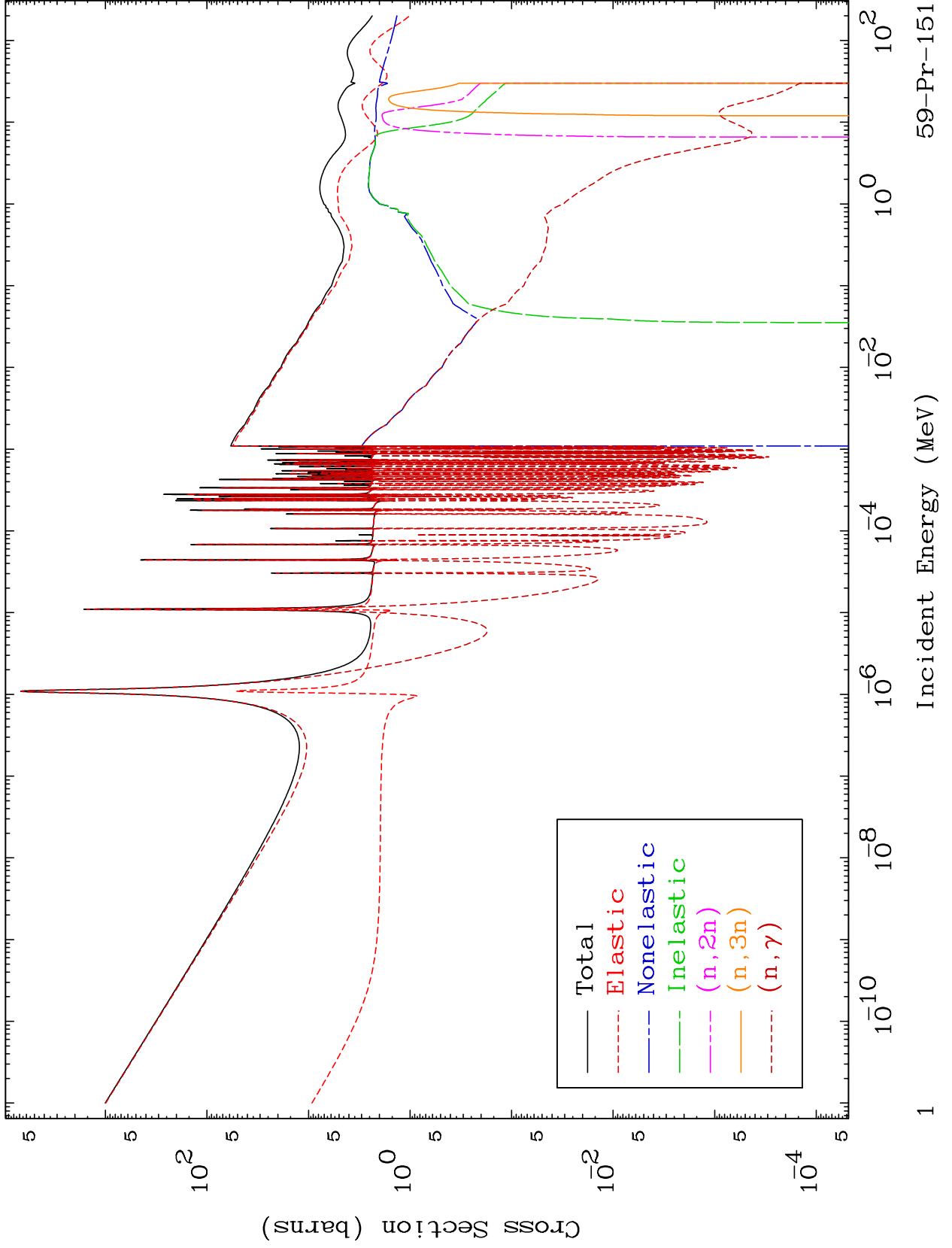
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

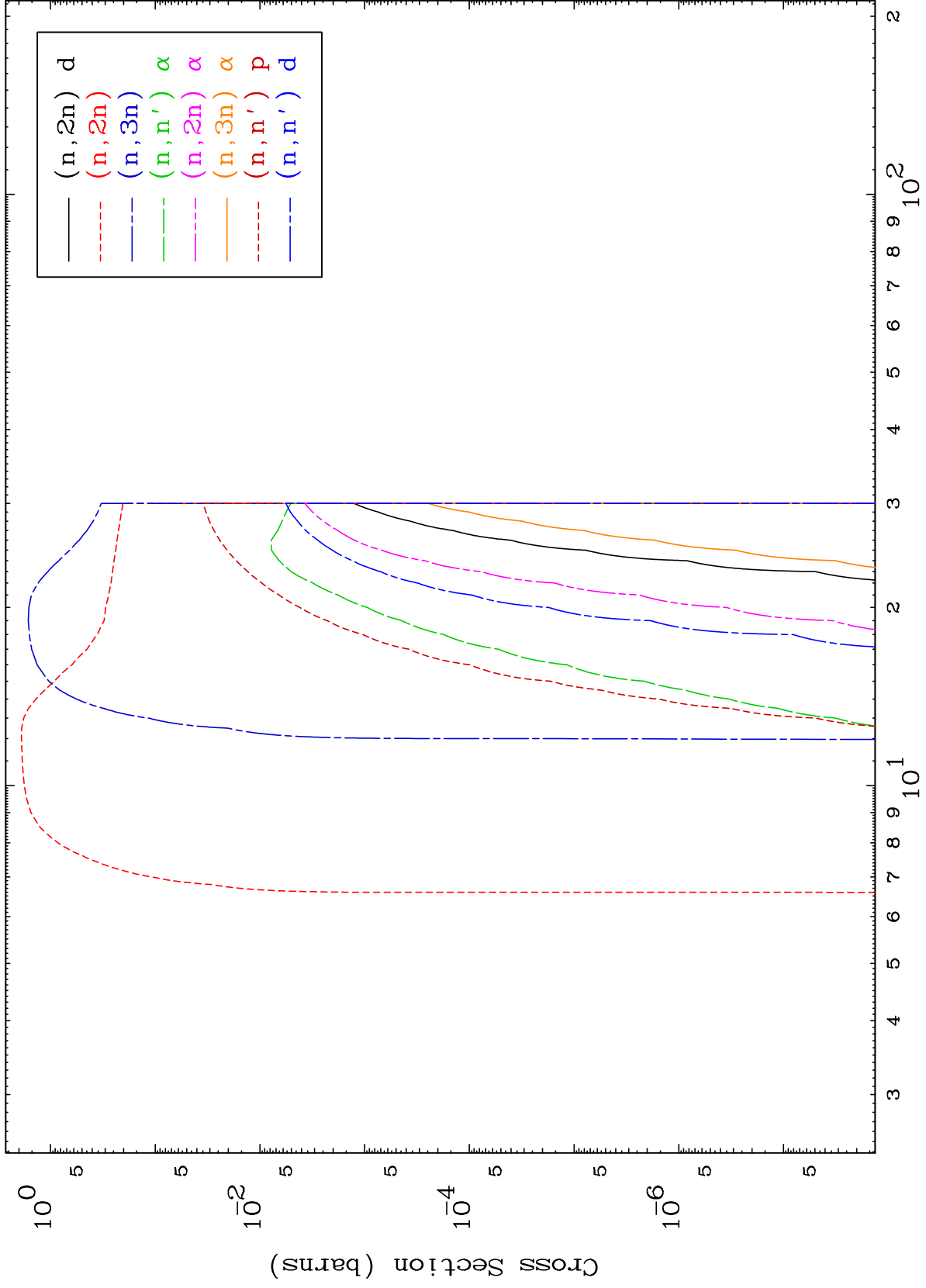
Tele: 925-443-1911

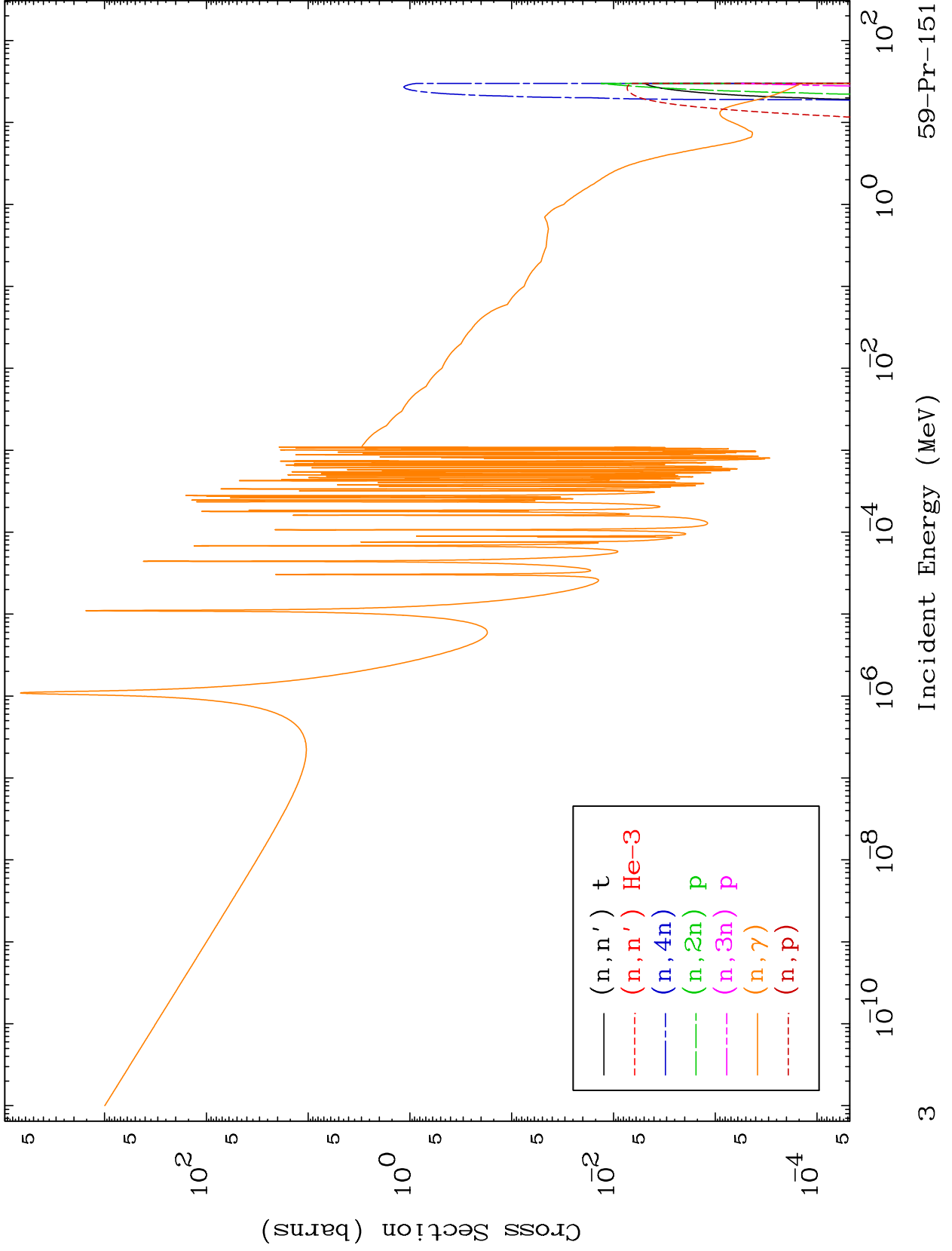
E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



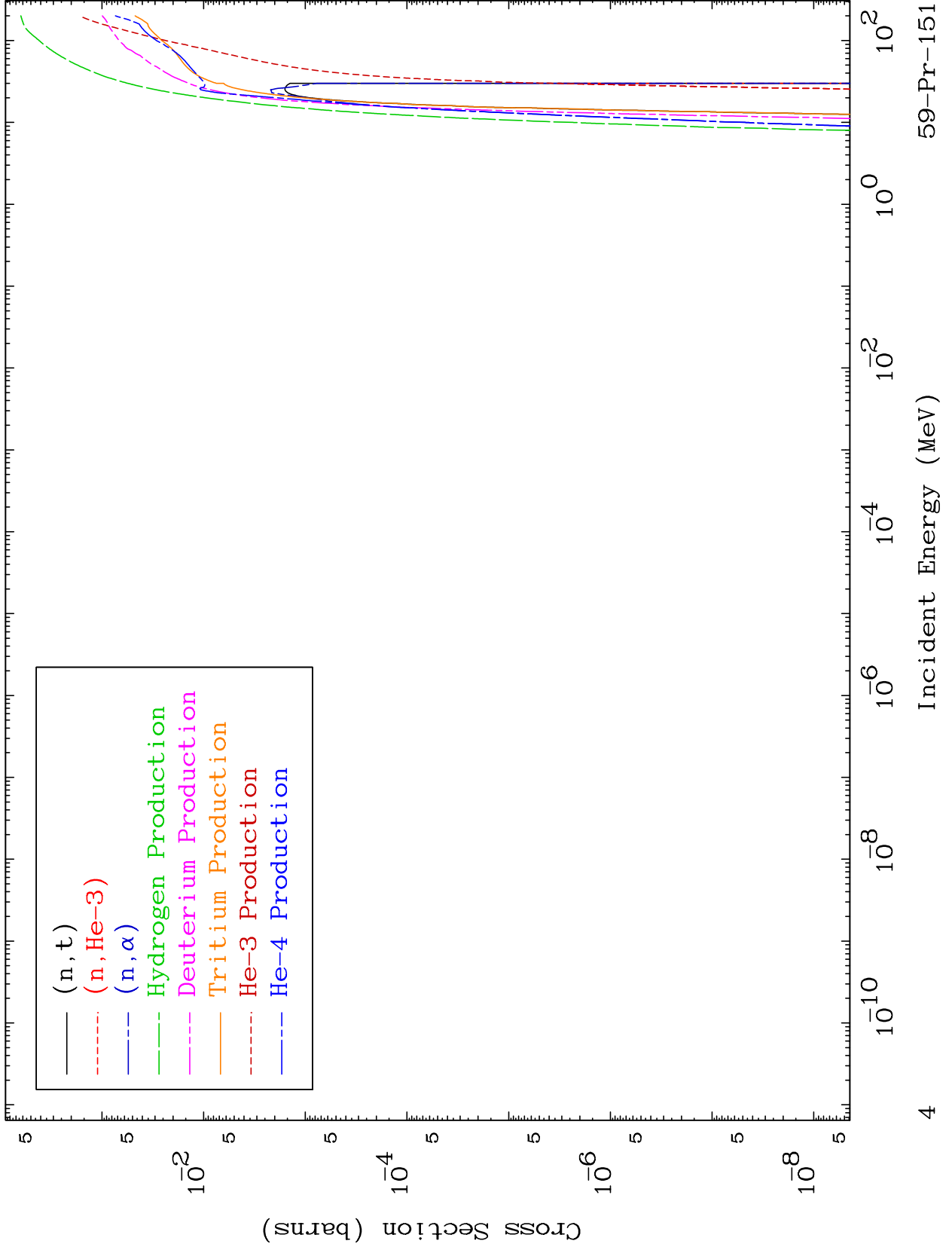


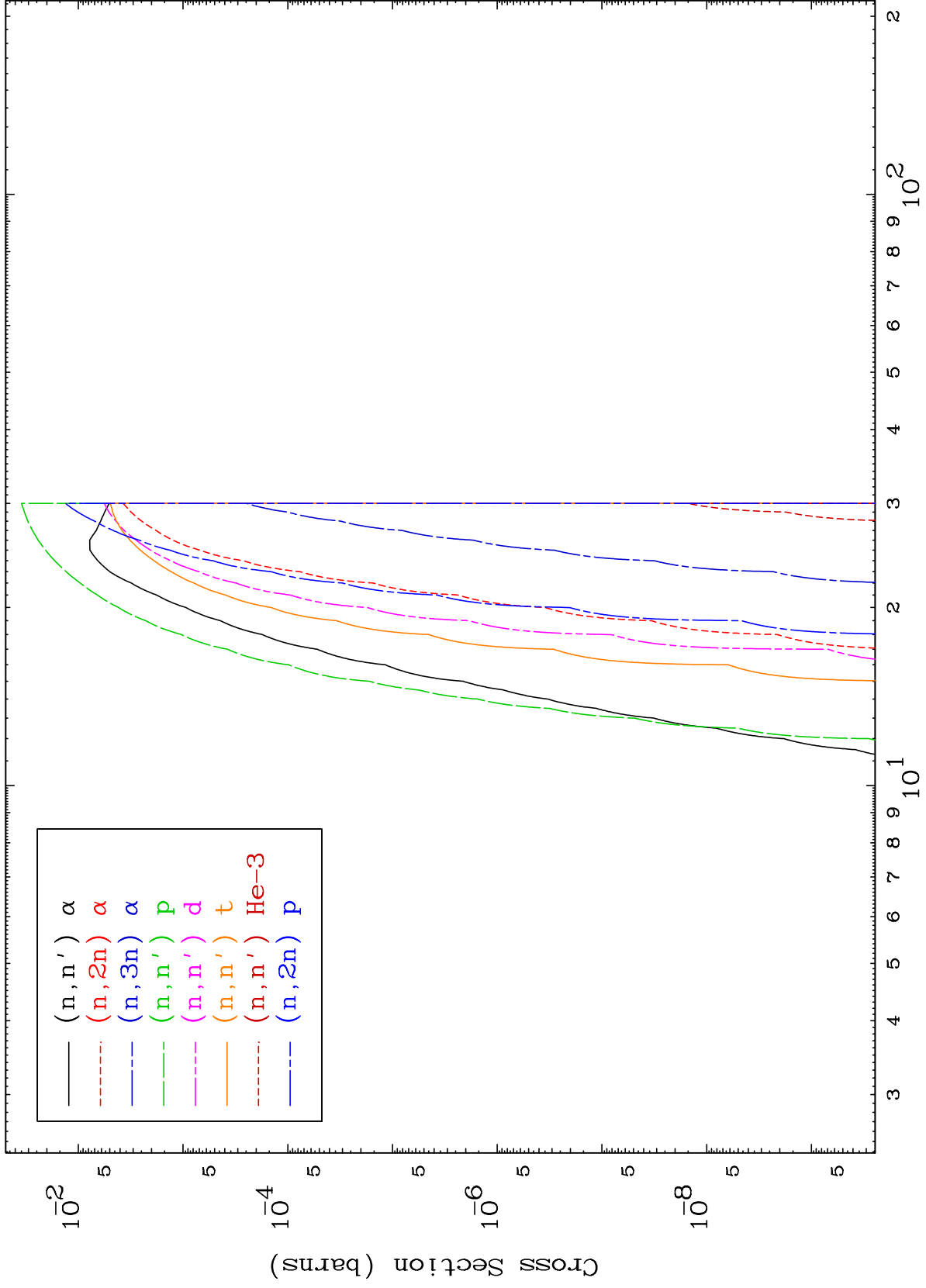


MAT 5955

Neutron Absorption
293 Kelvin Cross Sections

59-Pr-151

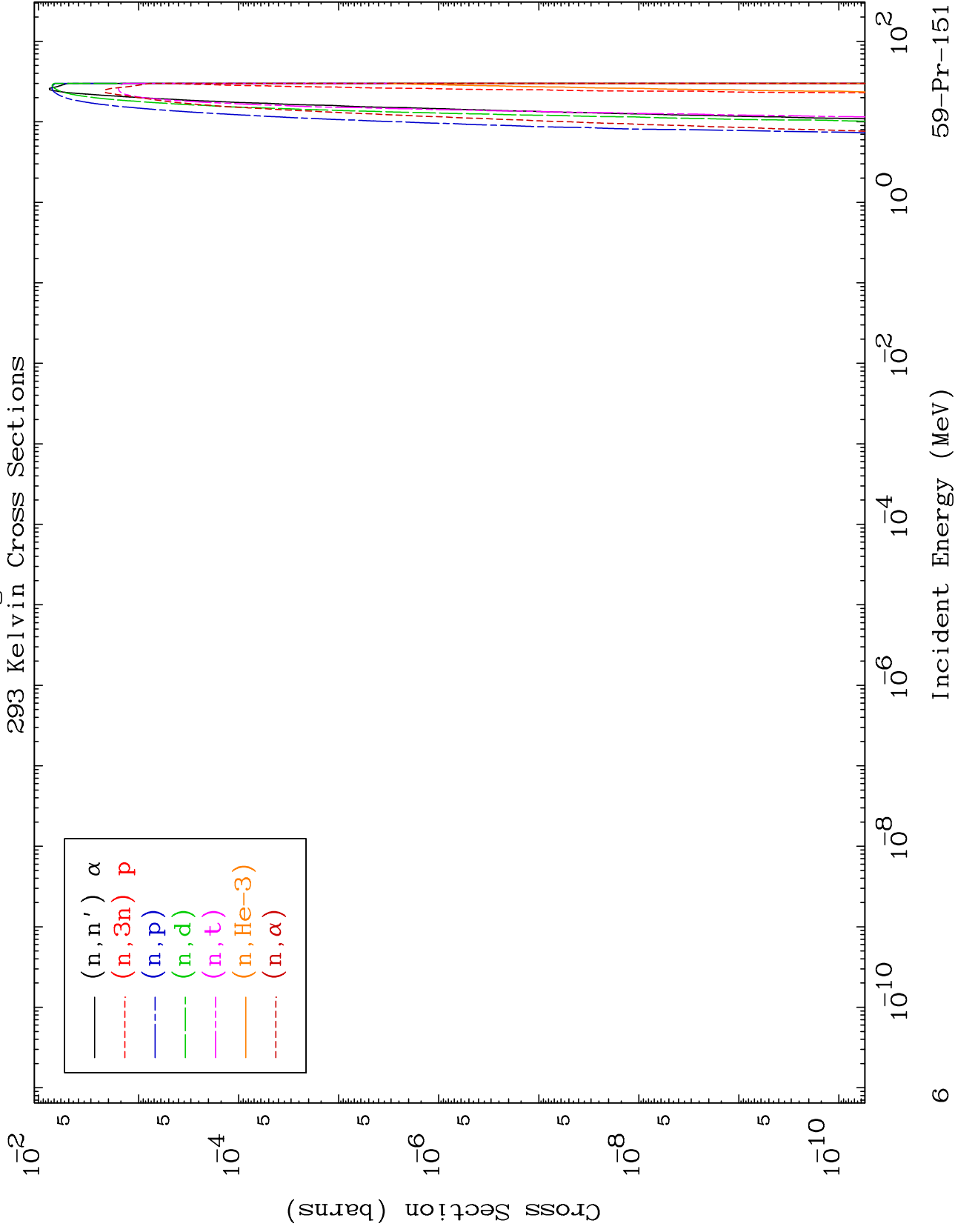


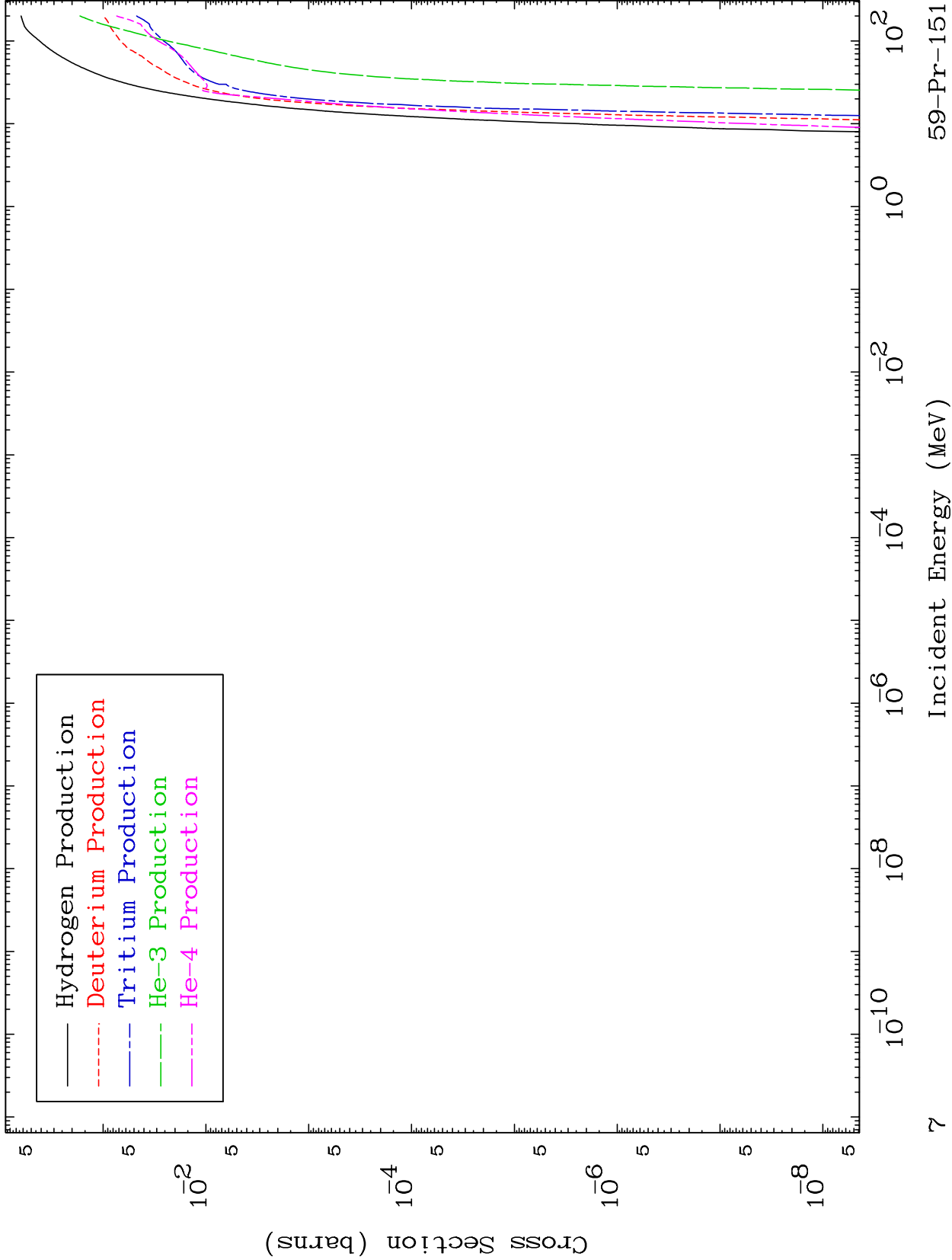


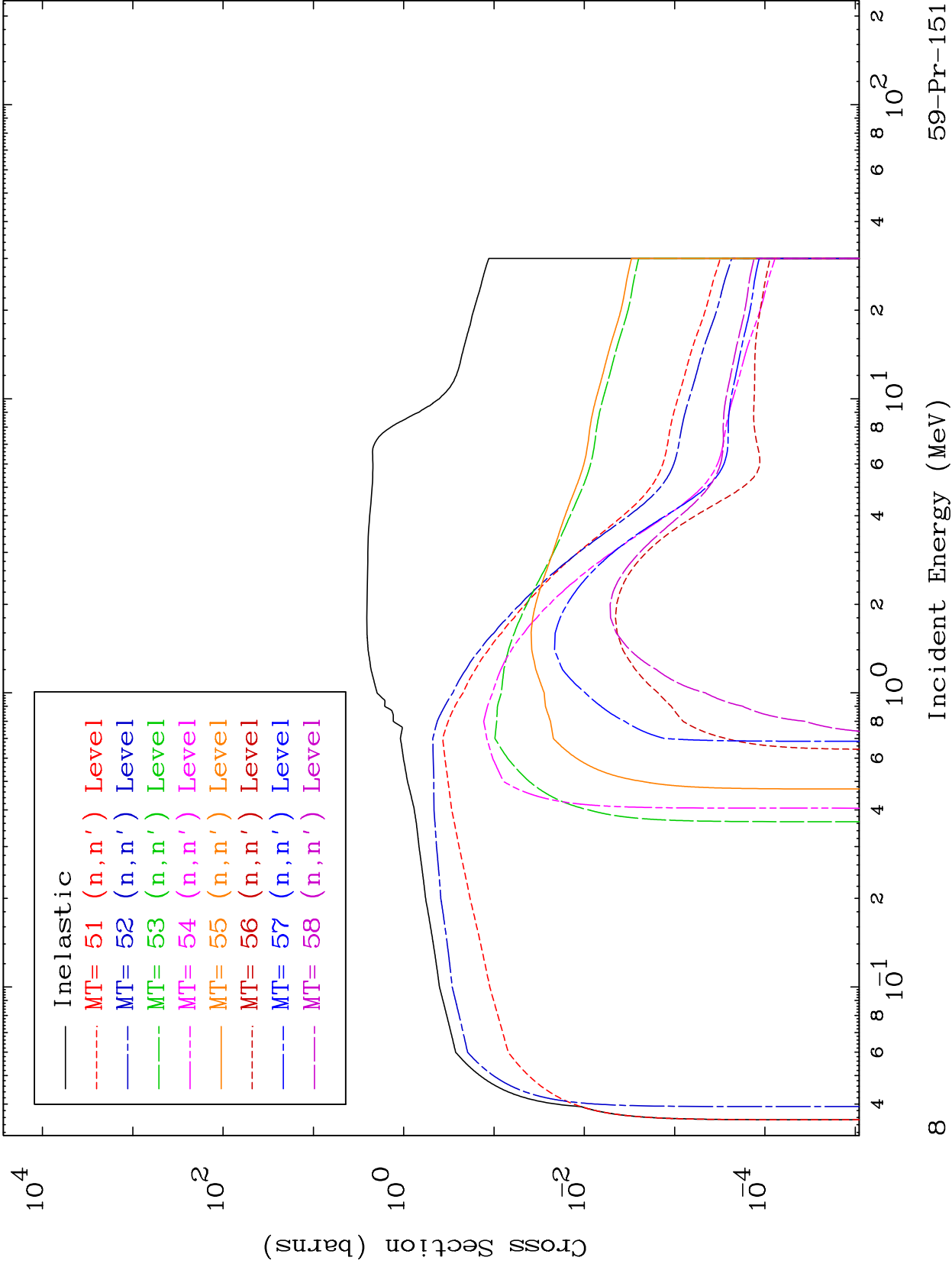
MAT 5955

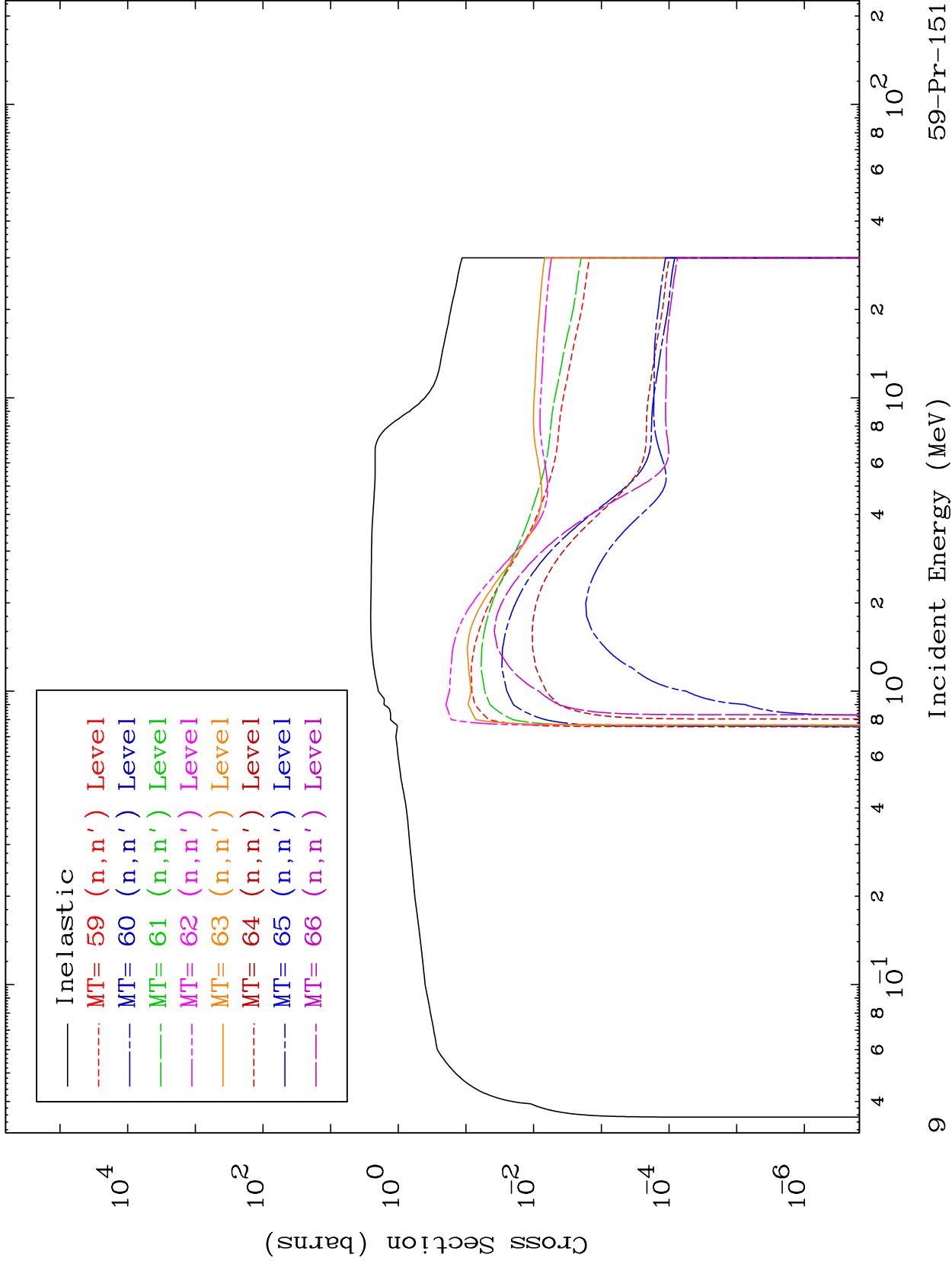
Charged Particle
293 Kelvin Cross Sections

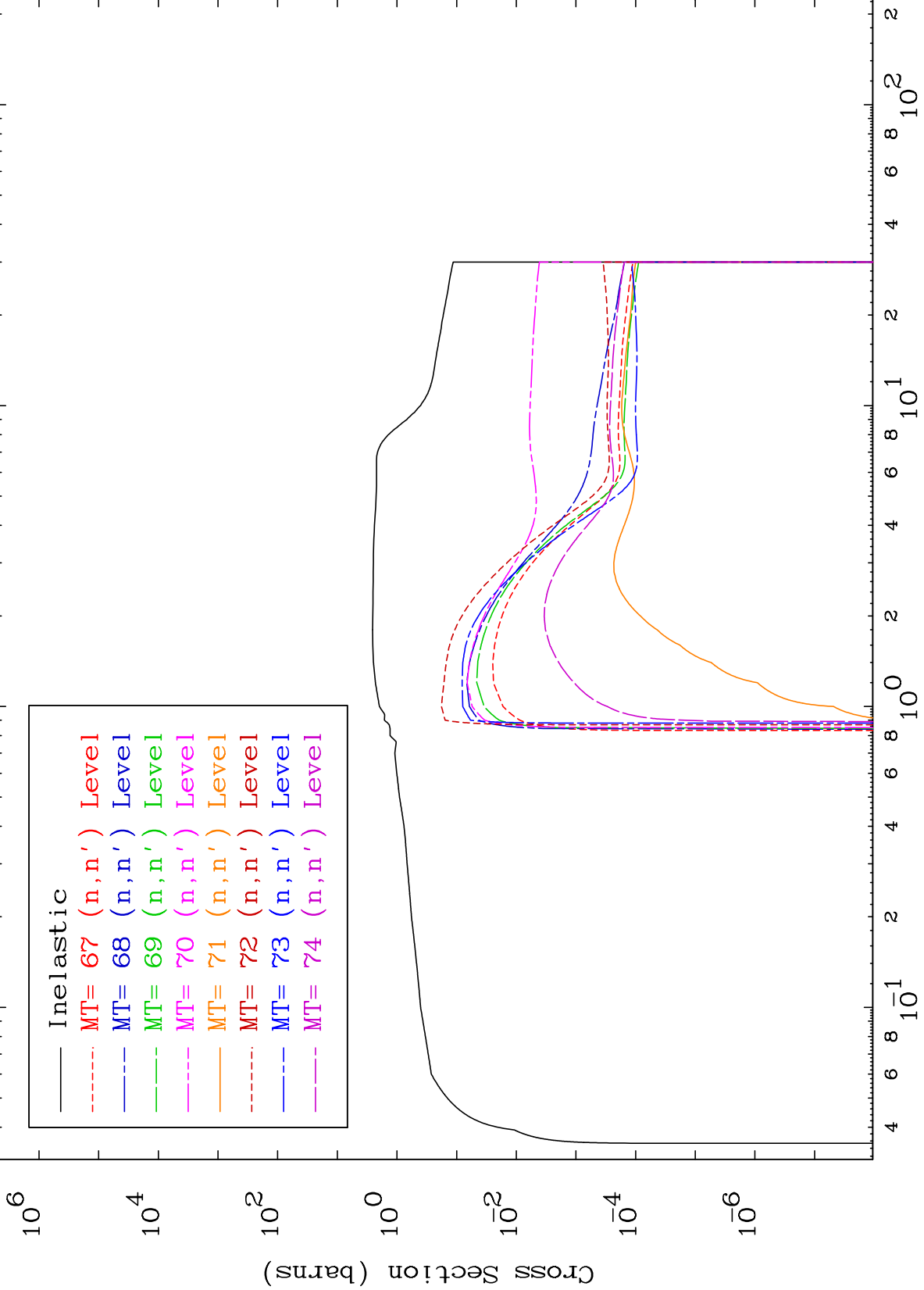
59-Pr-151

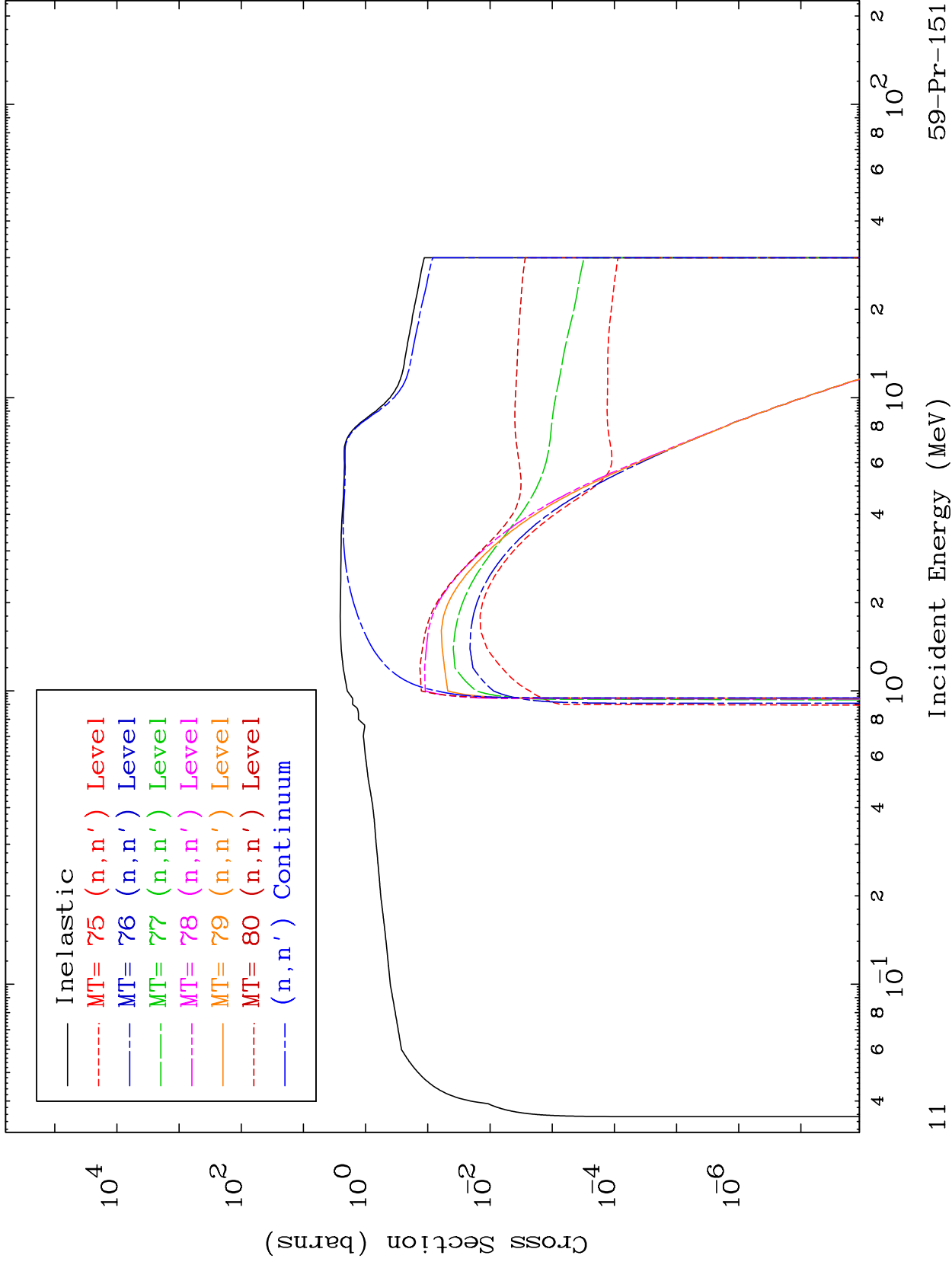








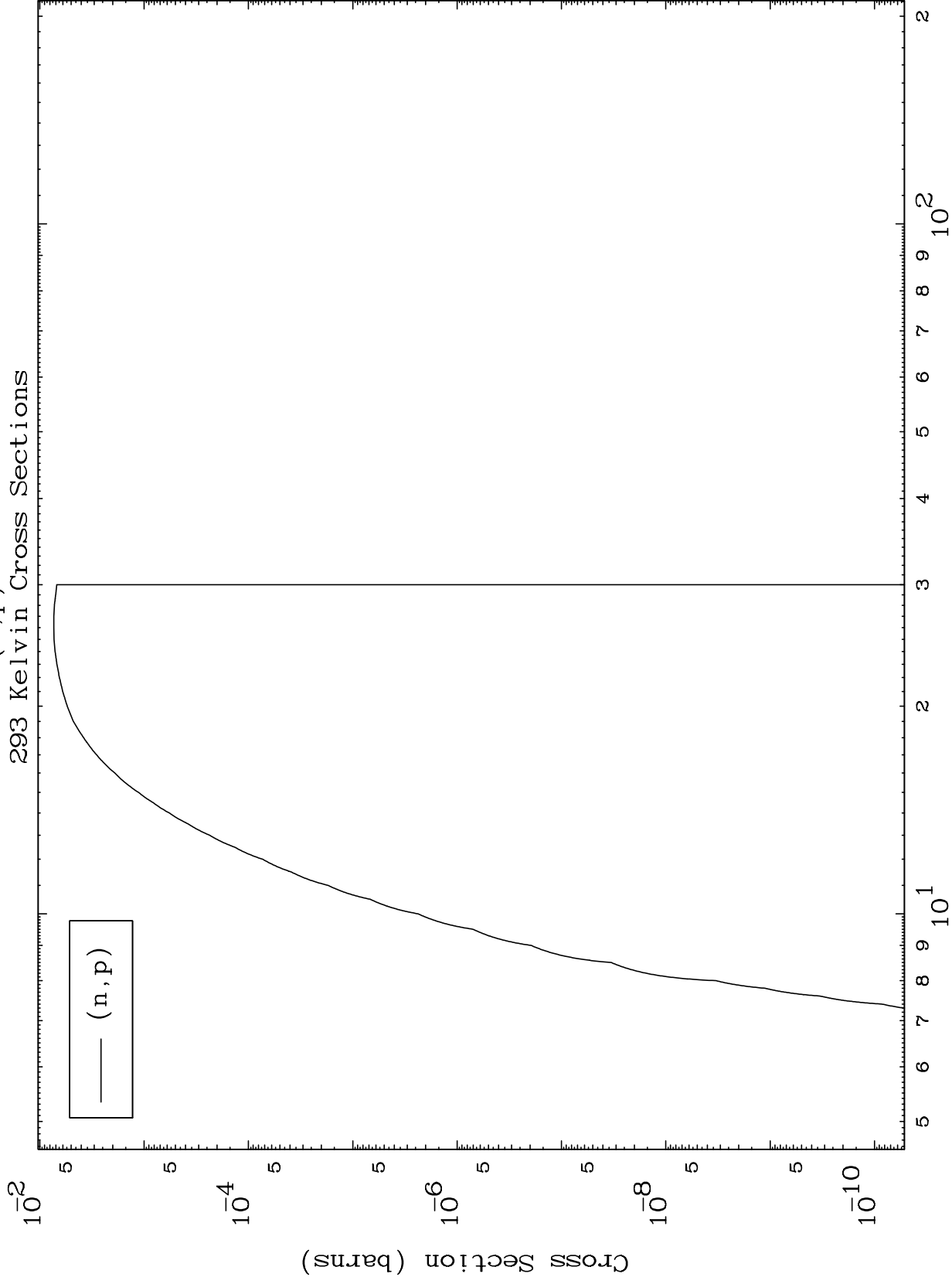




MAT 5955

59-Pr-151

(n,p) Levels
293 Kelvin Cross Sections



(n,p)

59-Pr-151

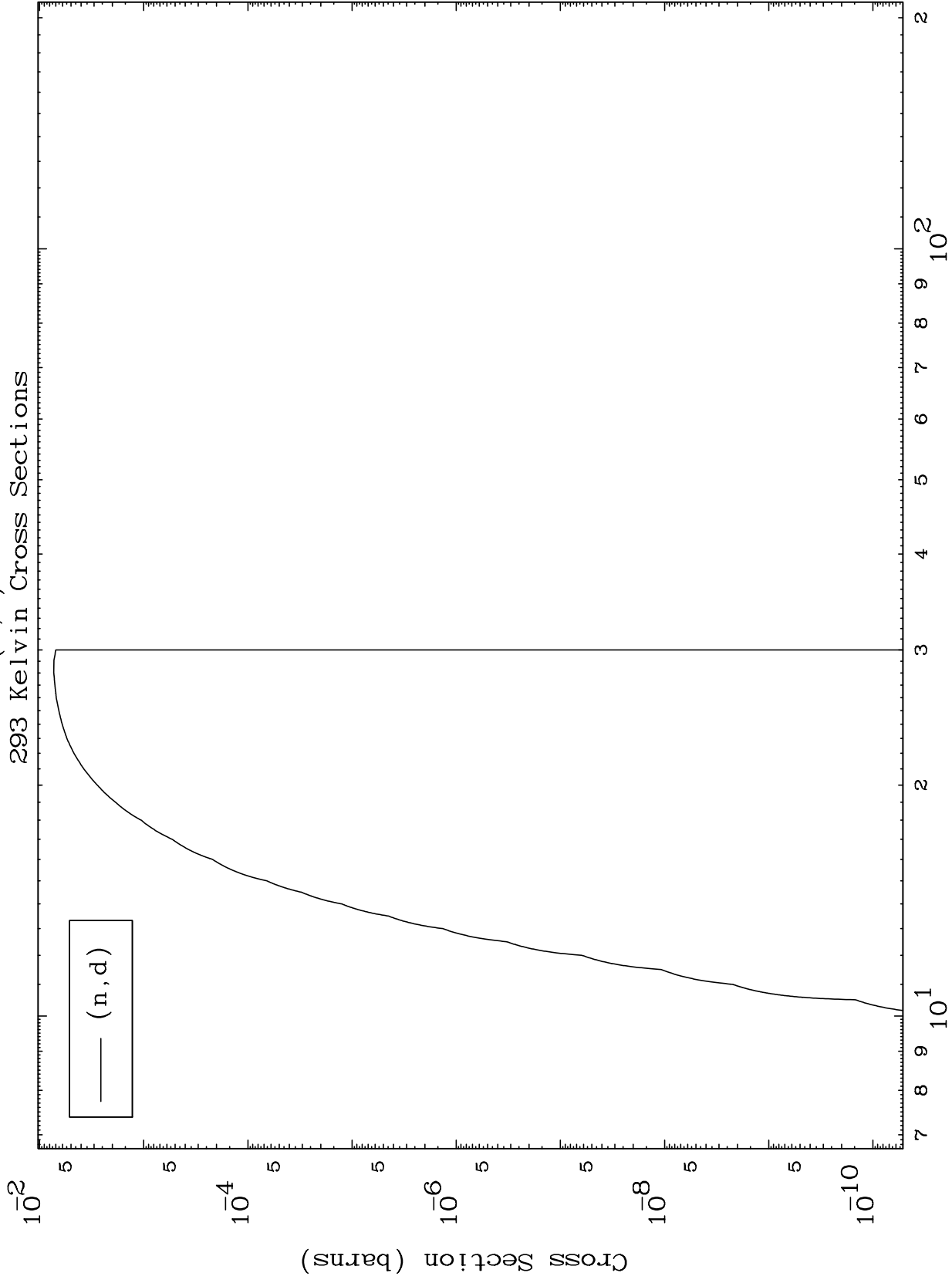
Incident Energy (MeV)

12

MAT 5955

(n,d) Levels
293 Kelvin Cross Sections

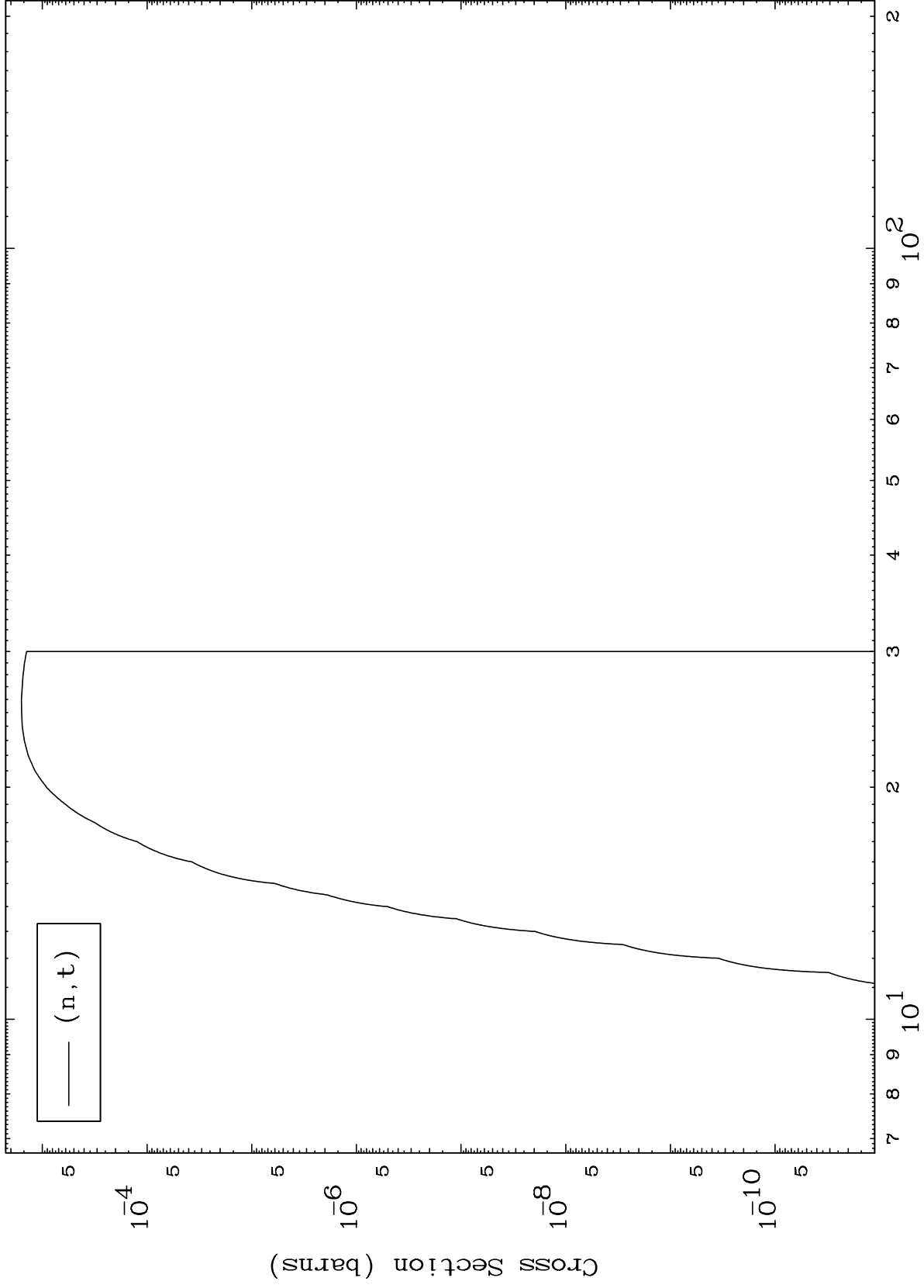
59-Pr-151

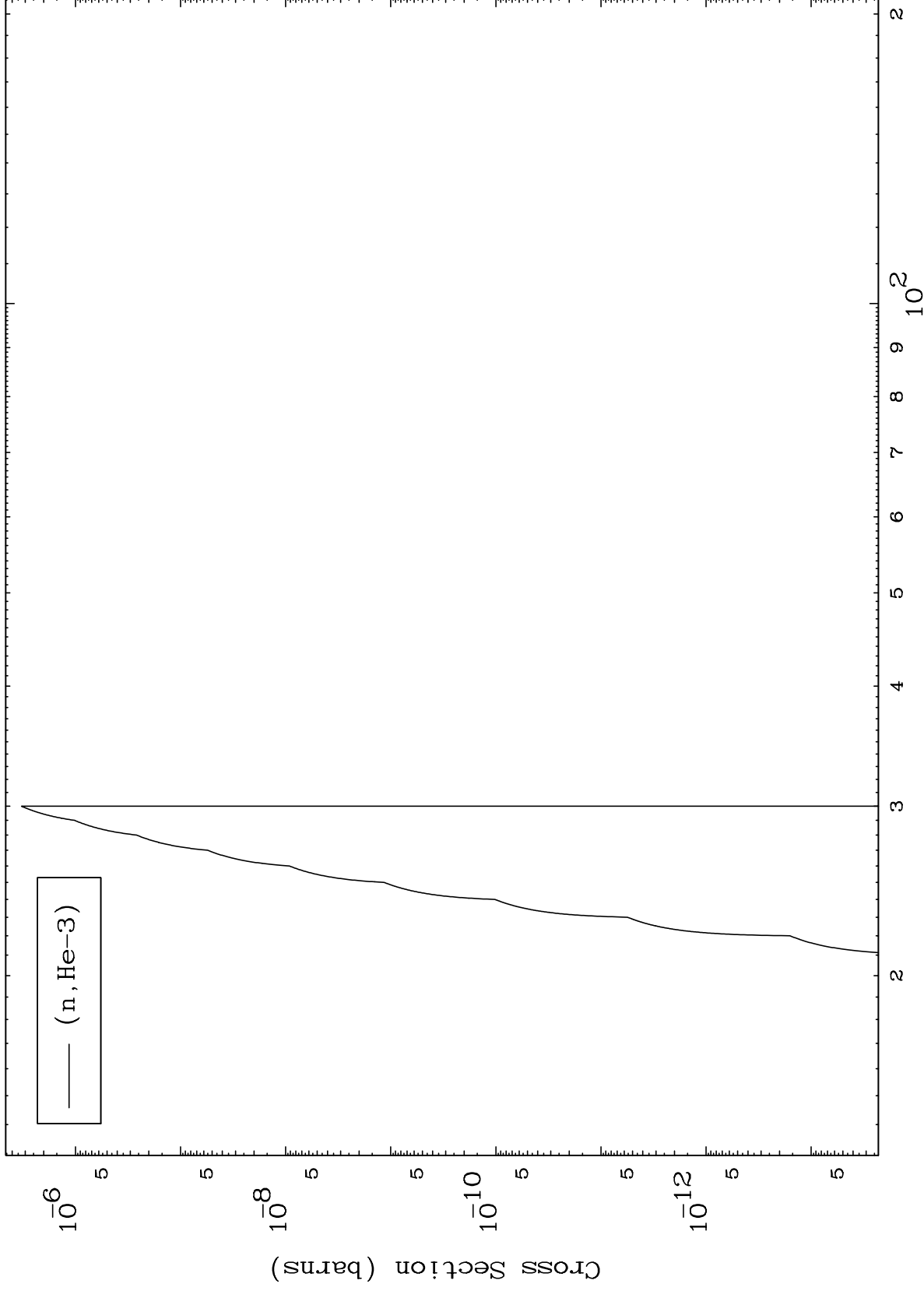


13

Incident Energy (MeV)

59-Pr-151

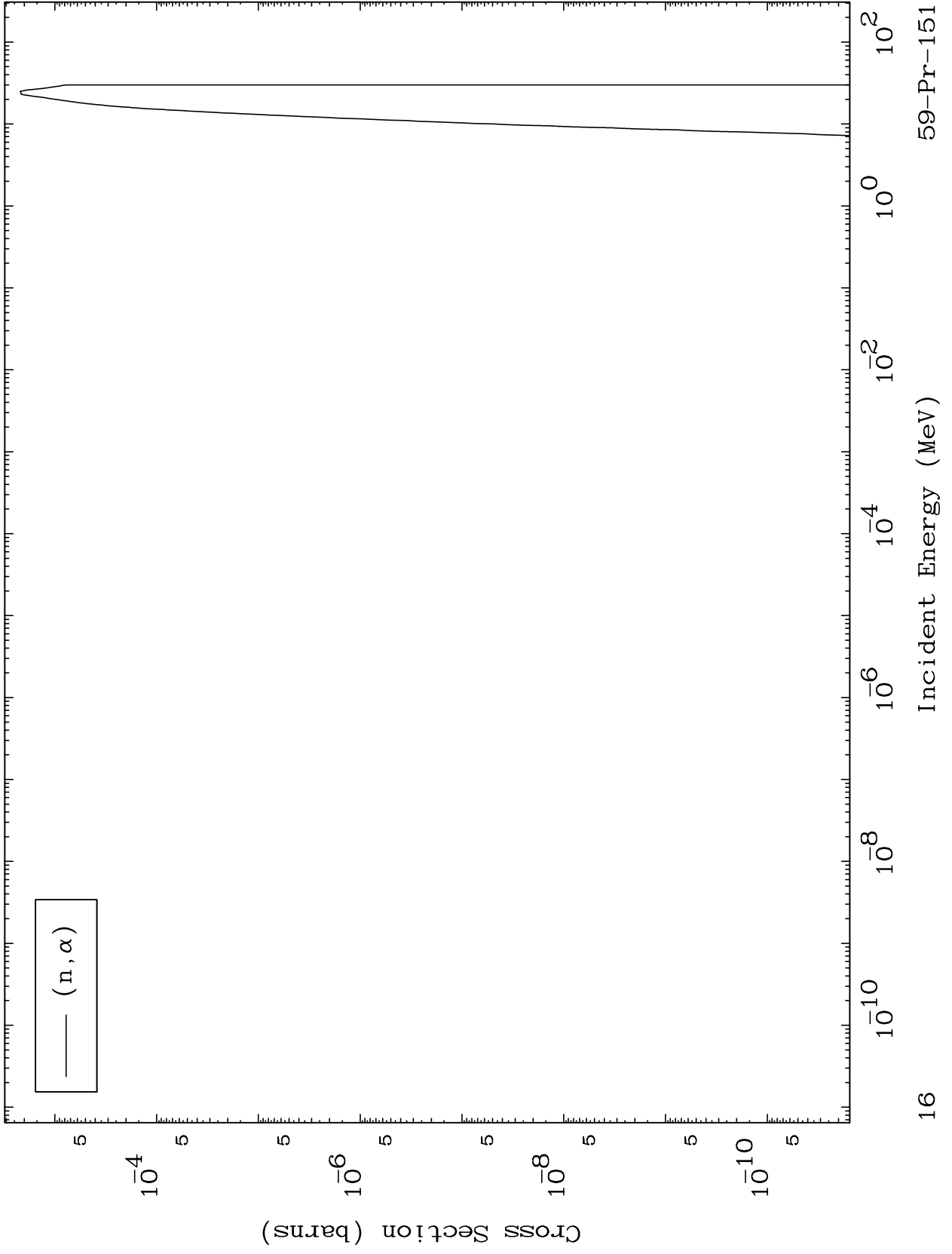




MAT 5955

(n, α) Levels
293 Kelvin Cross Sections

59-Pr-151



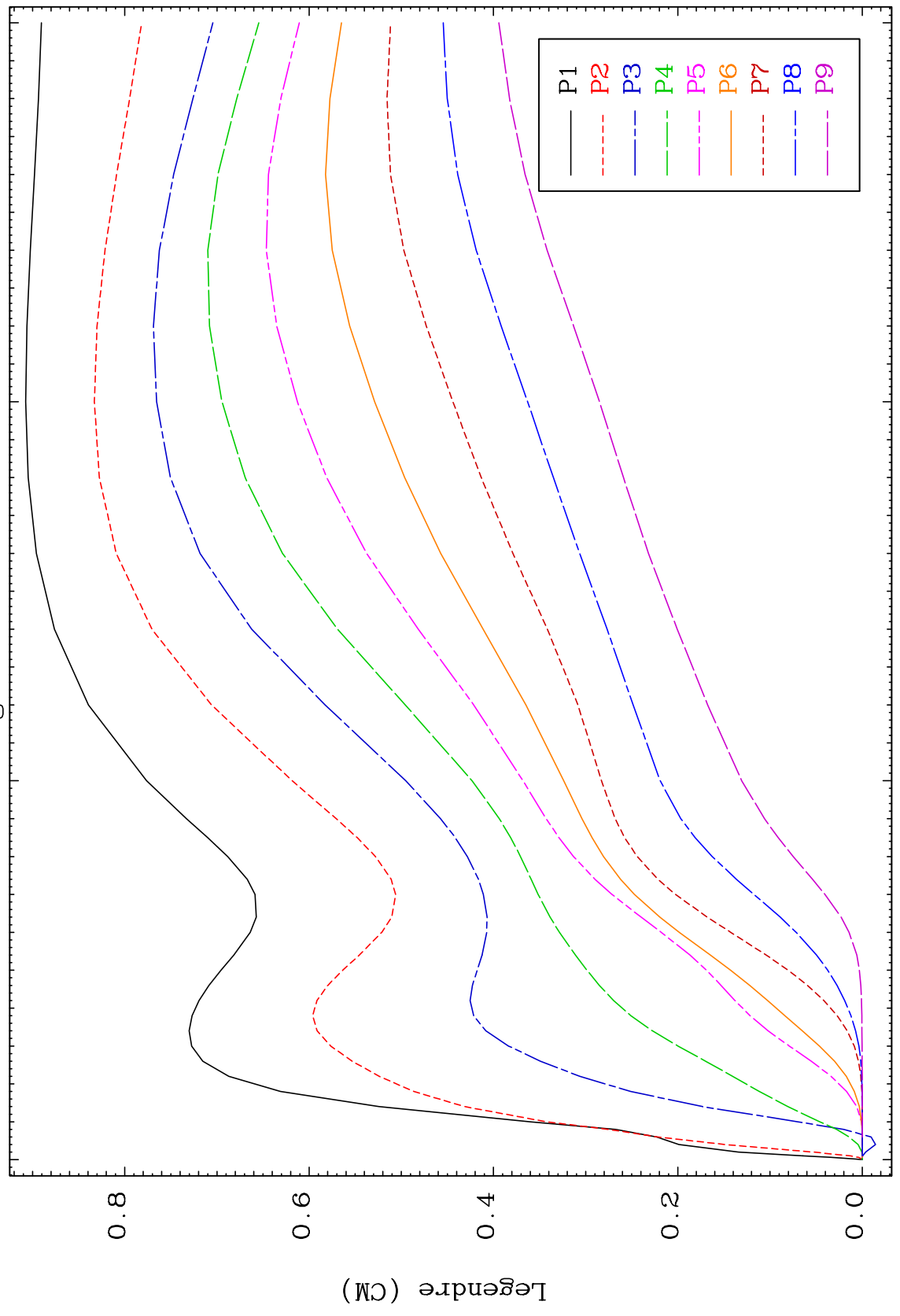
16

59-Pr-151

MAT 5955

59-Pr-151

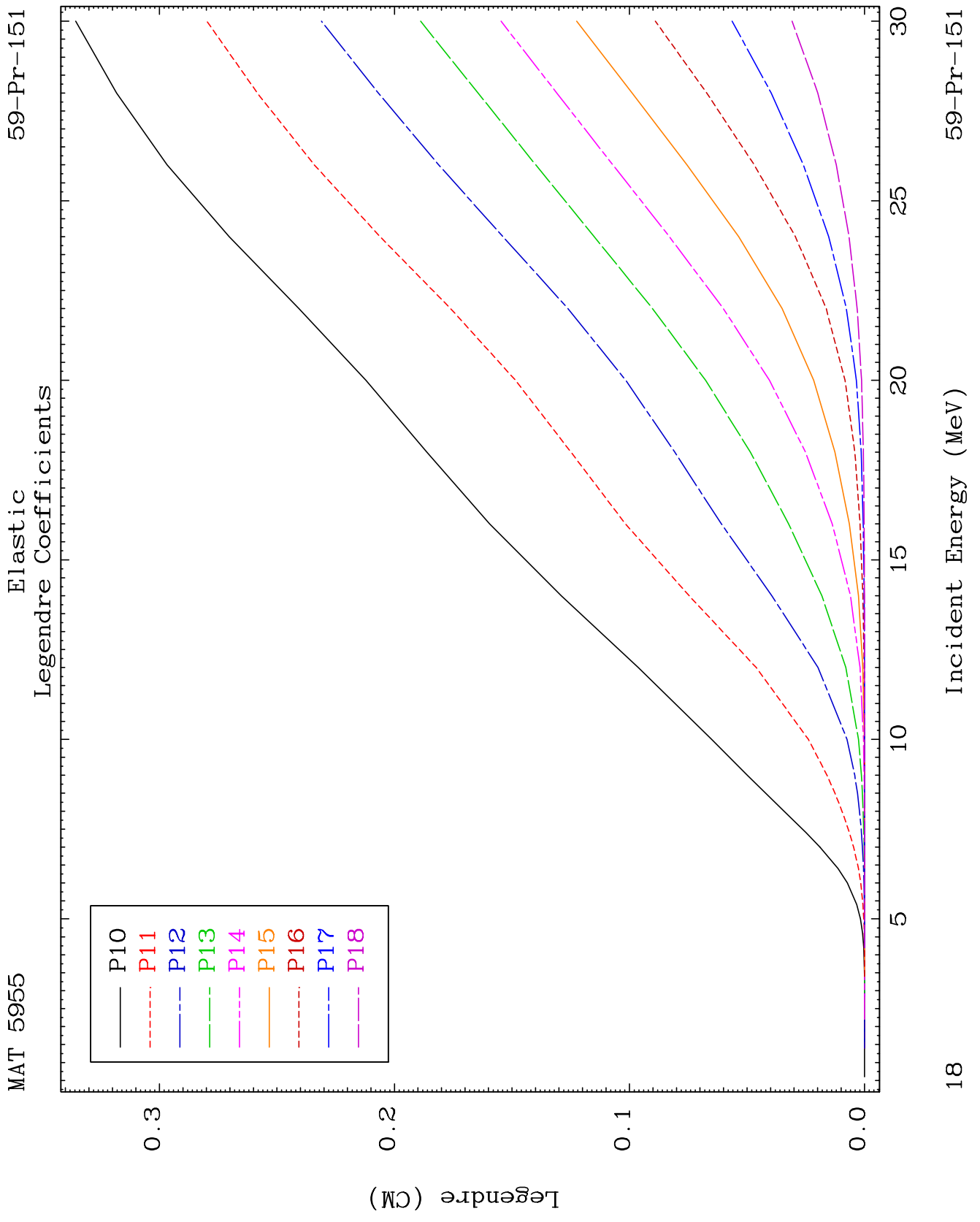
Elastic Legendre Coefficients



59-Pr-151

Incident Energy (MeV)

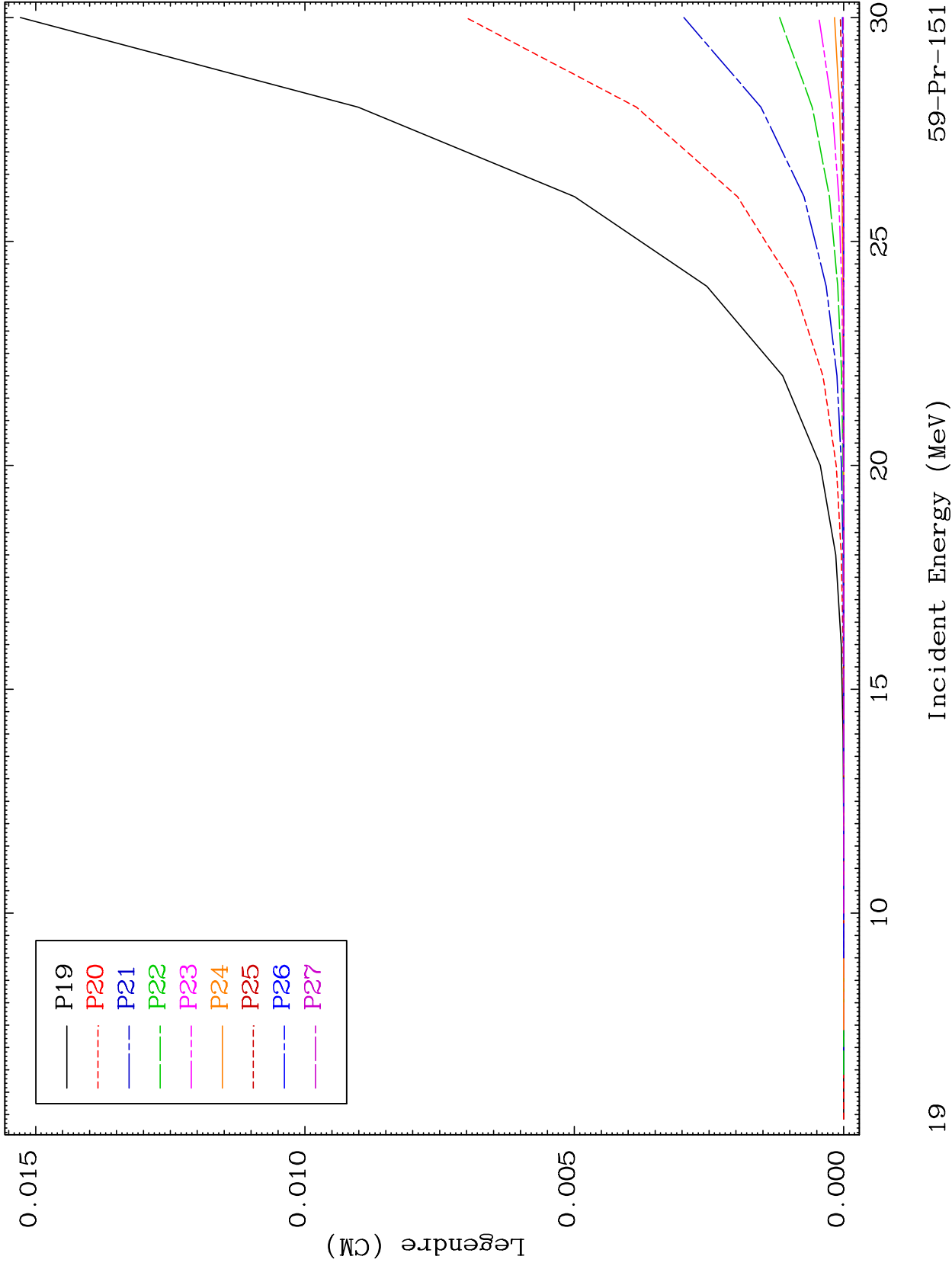
17



MAT 5955

Elastic Legendre Coefficients

59-Pr-151



19

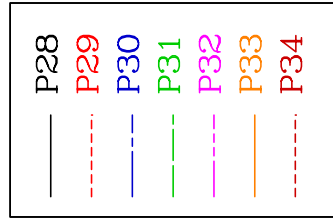
Incident Energy (MeV)

59-Pr-151

MAT 5955

Elastic
Legendre Coefficients

59-Pr-151



$\times 10^{-6}$
2.0
1.5

Legendre (CM)

1.0

0.5

0.0

15

20

25

30

20

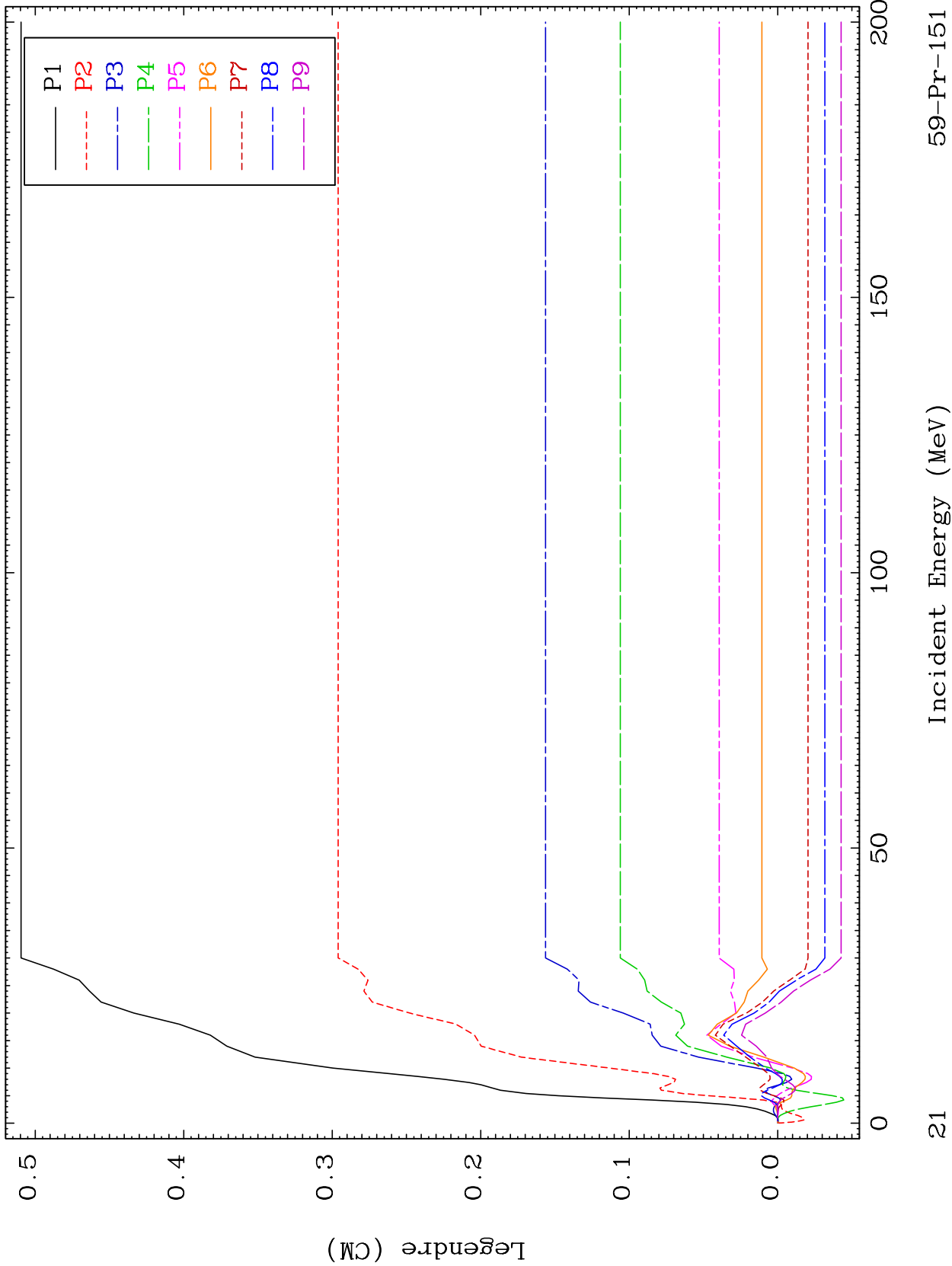
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



21

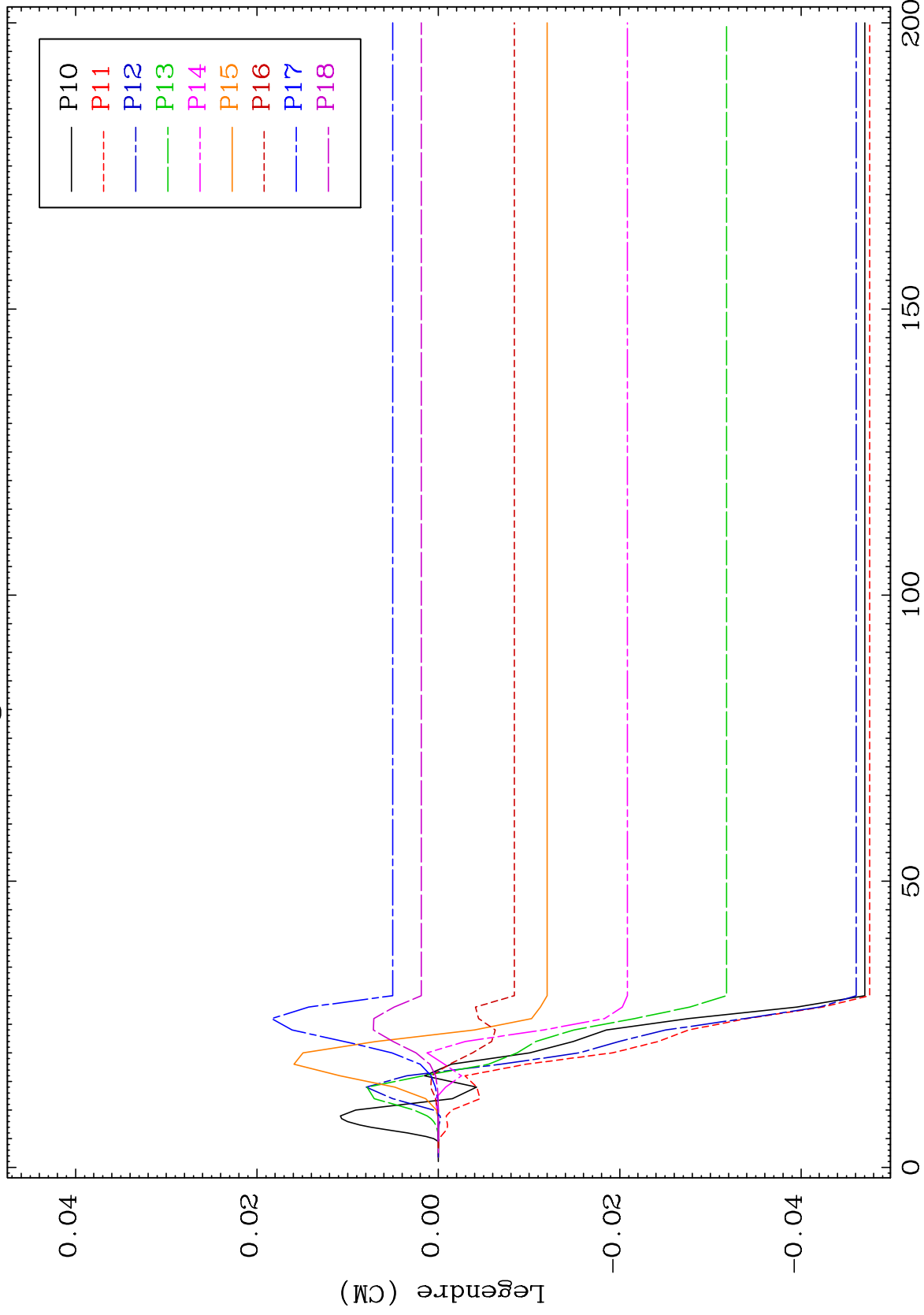
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



22

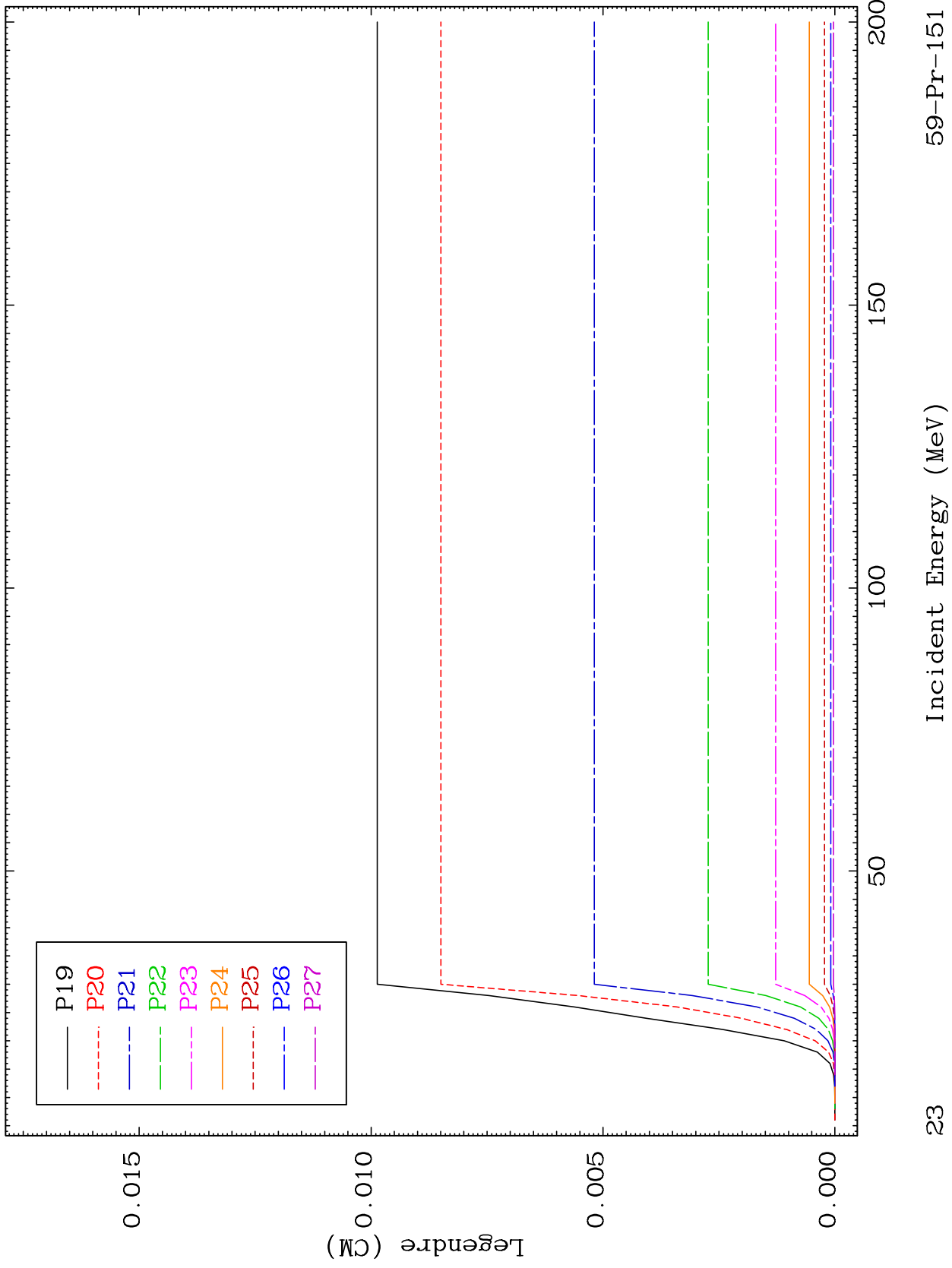
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



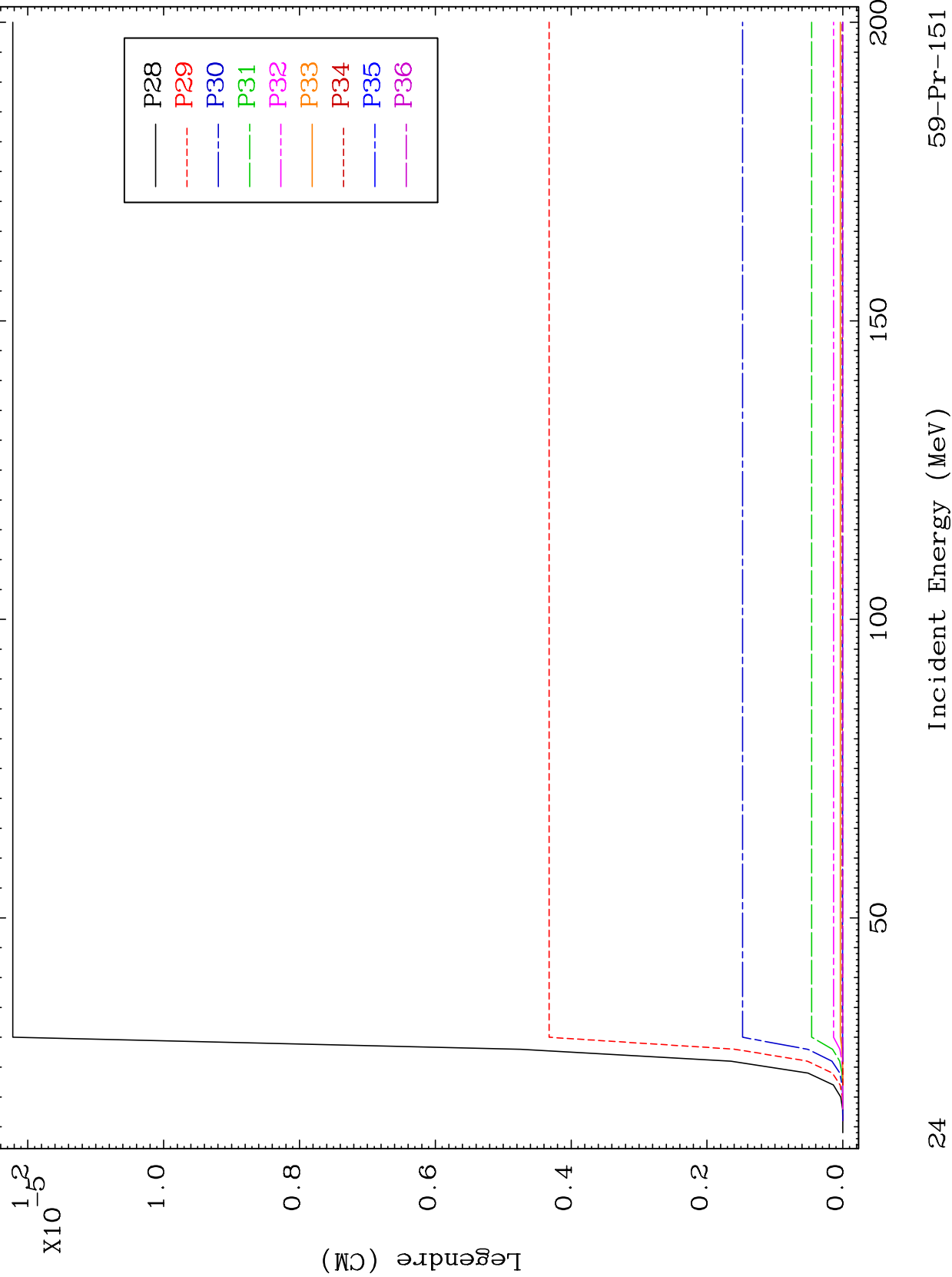
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59-Pr-151

MAT 5955

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

59-Pr-151



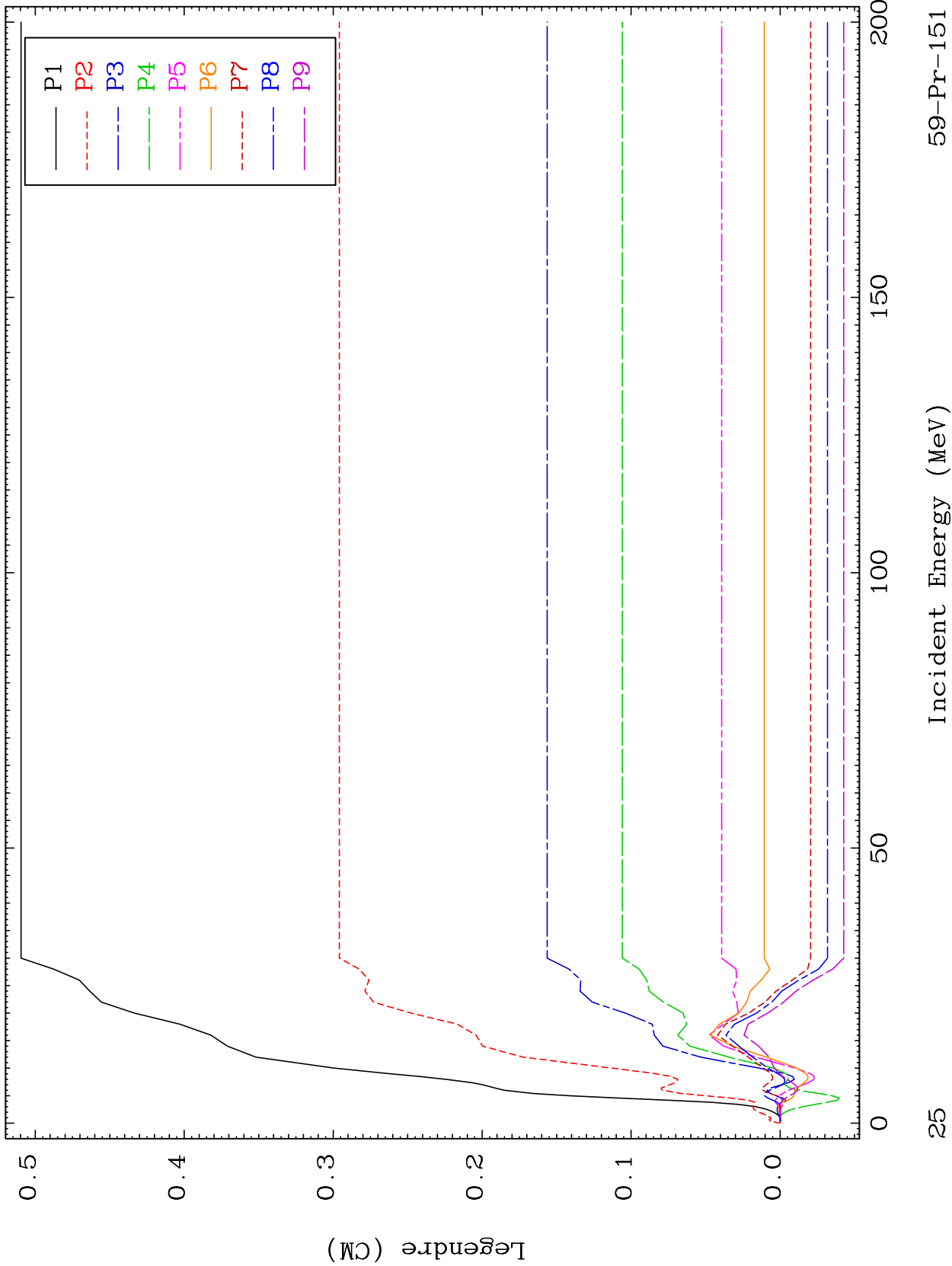
24

59-Pr-151

MAT 5955

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

59-Pr-151

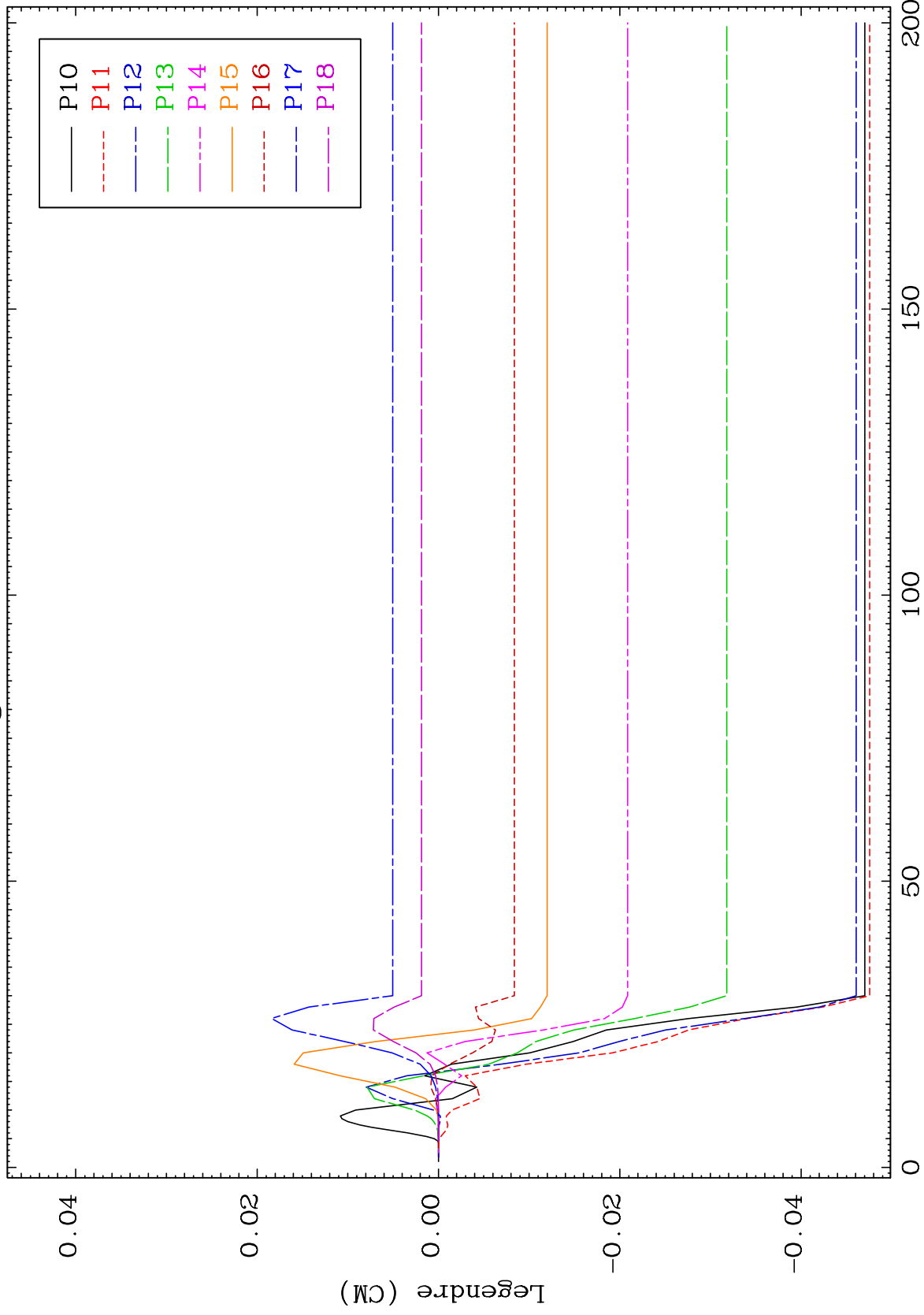


59-Pr-151

MAT 5955

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

59-Pr-151



26

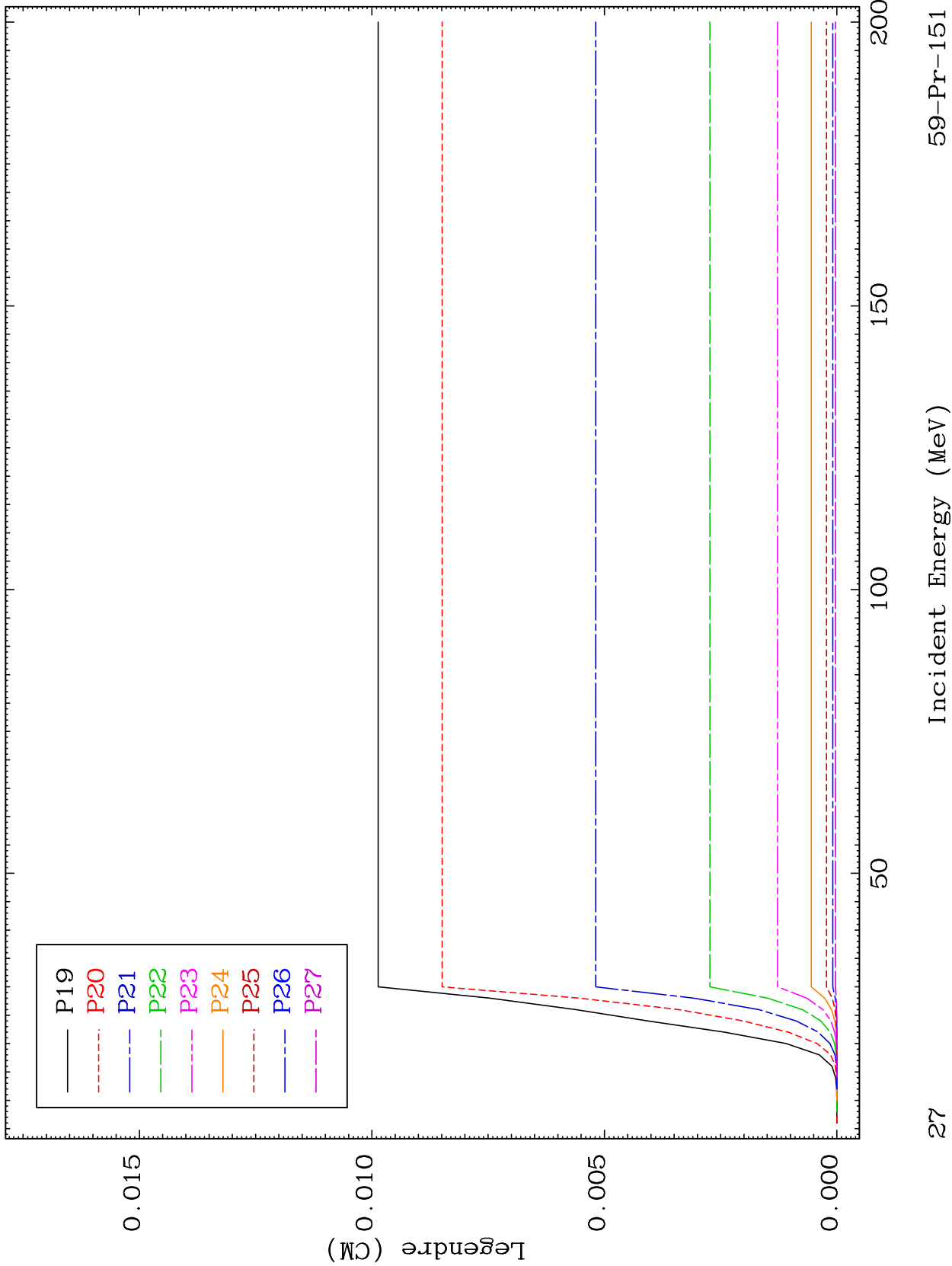
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

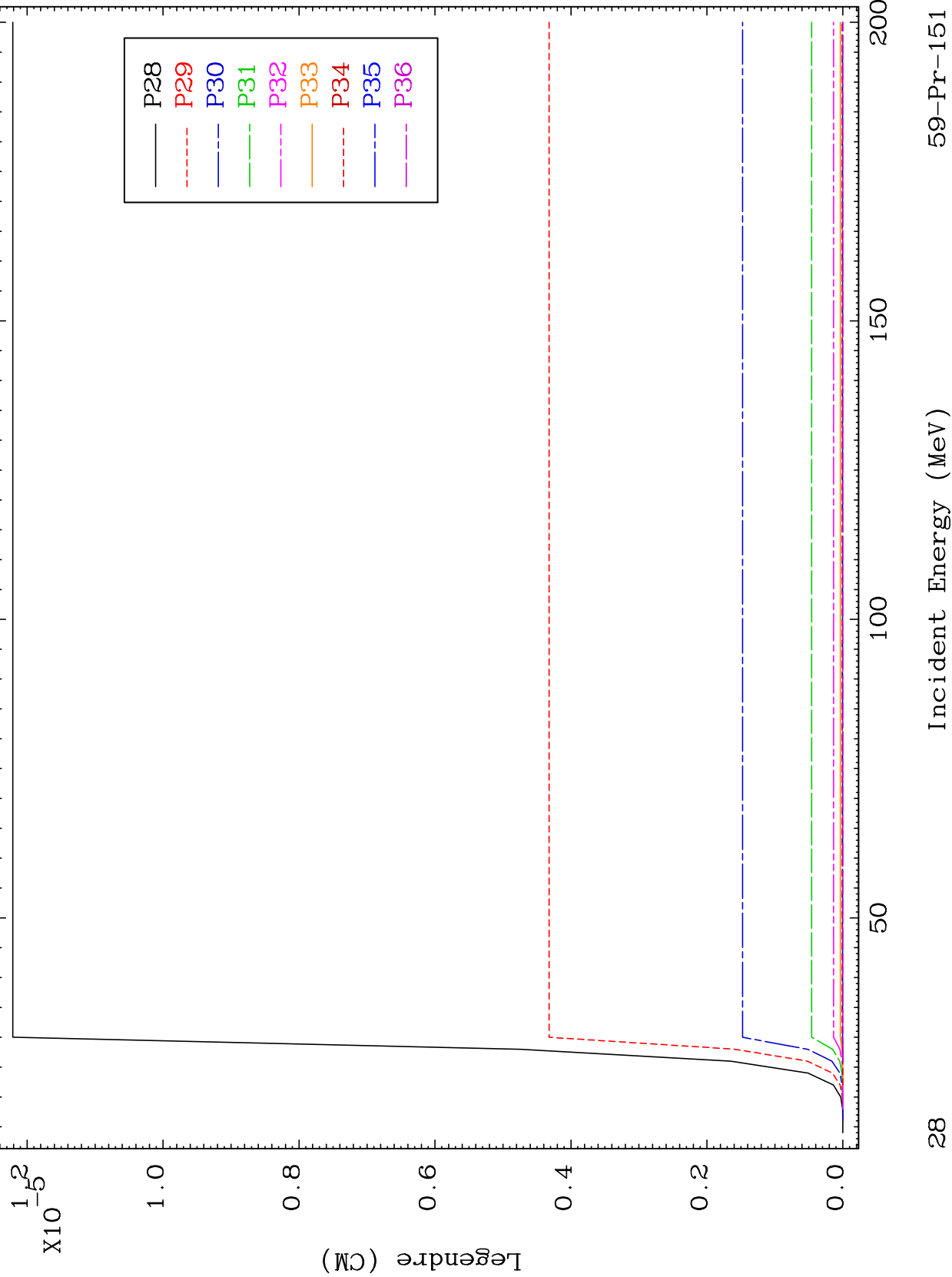
59-Pr-151



MAT 5955

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

59-Pr-151



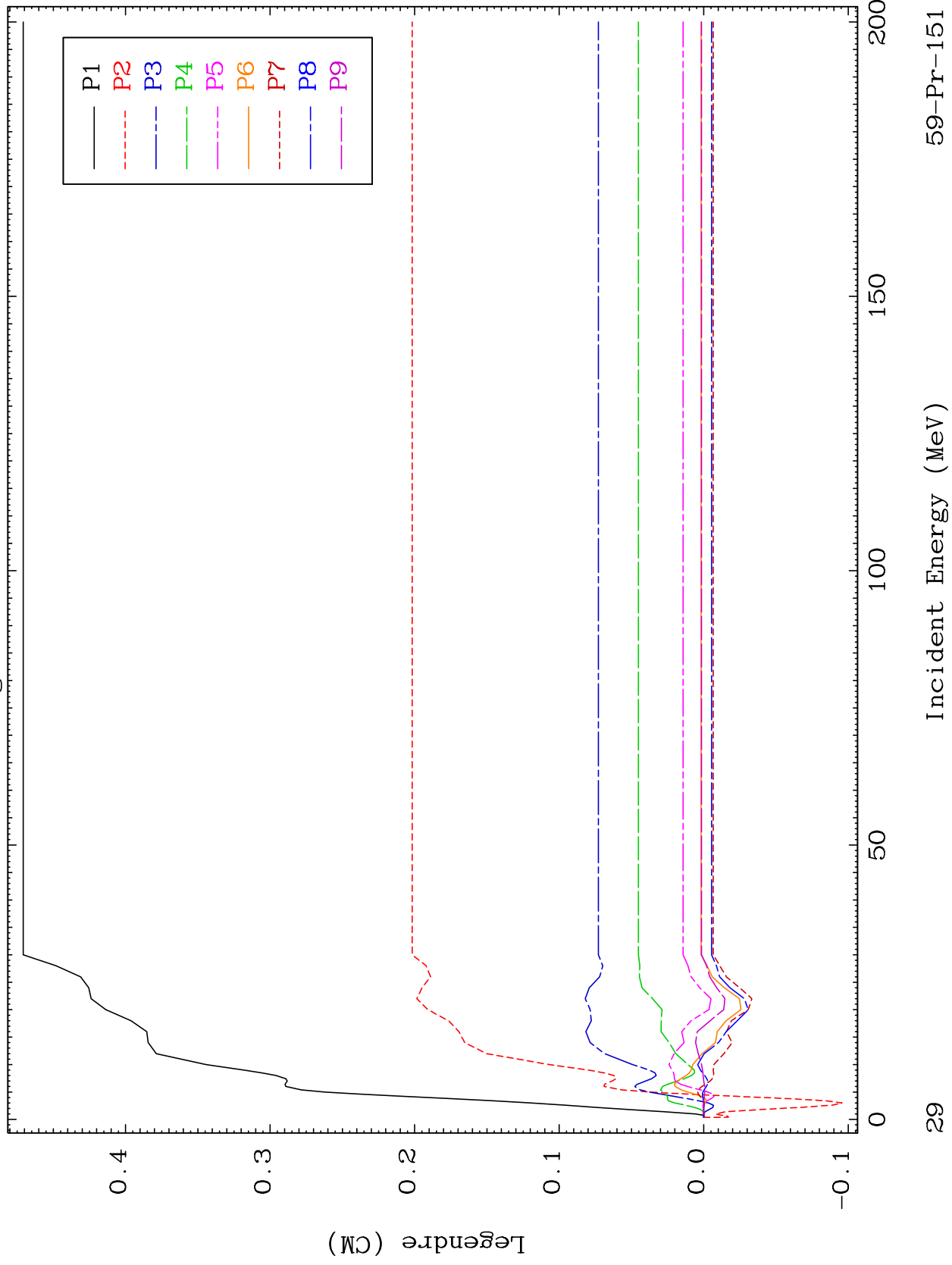
28

59-Pr-151

MAT 5955

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

59-Pr-151



59-Pr-151

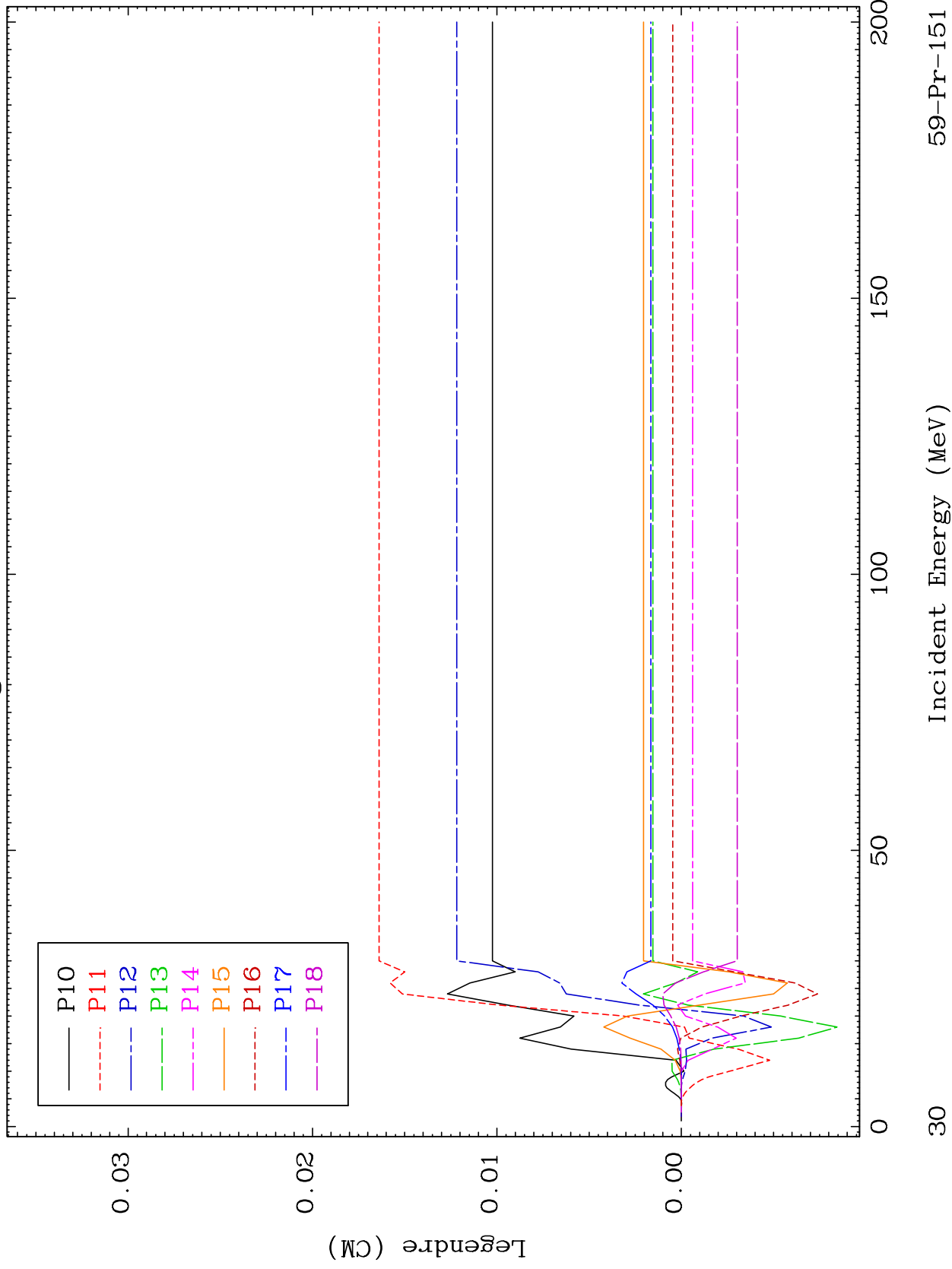
Incident Energy (MeV)

29

MAT 5955

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

59-Pr-151



59-Pr-151

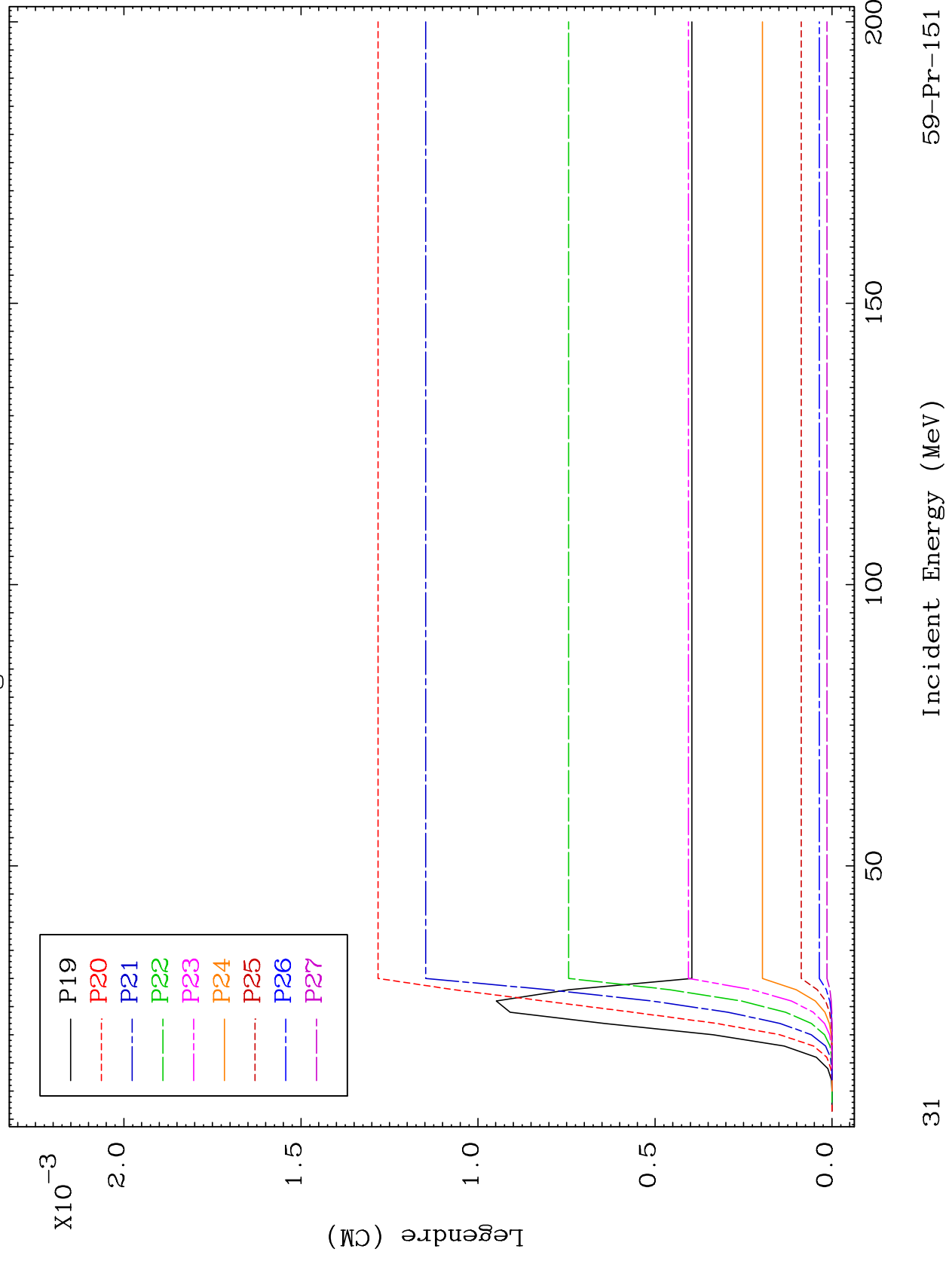
Incident Energy (MeV)

30

MAT 5955

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

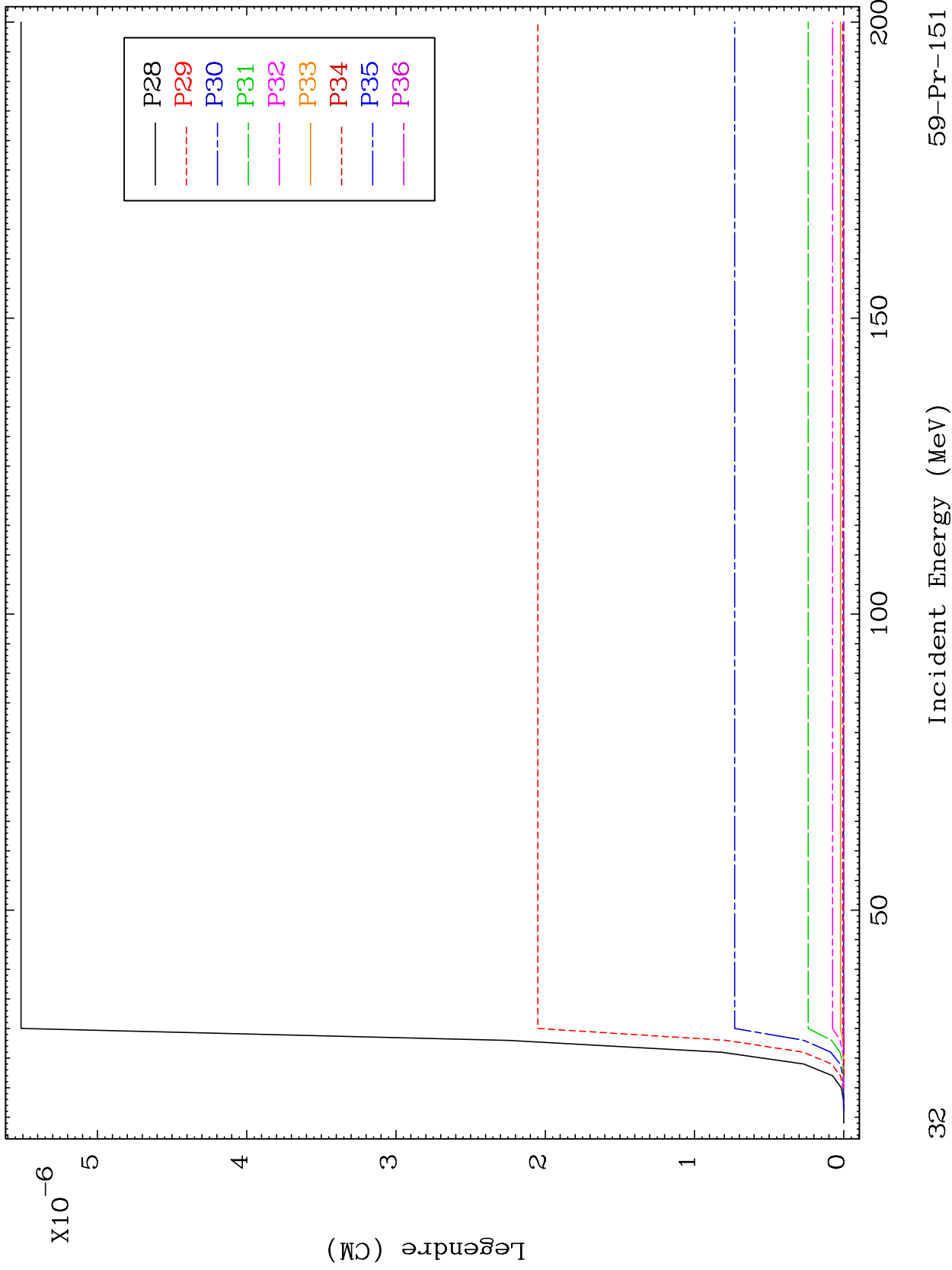
59-Pr-151



MAT 5955

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

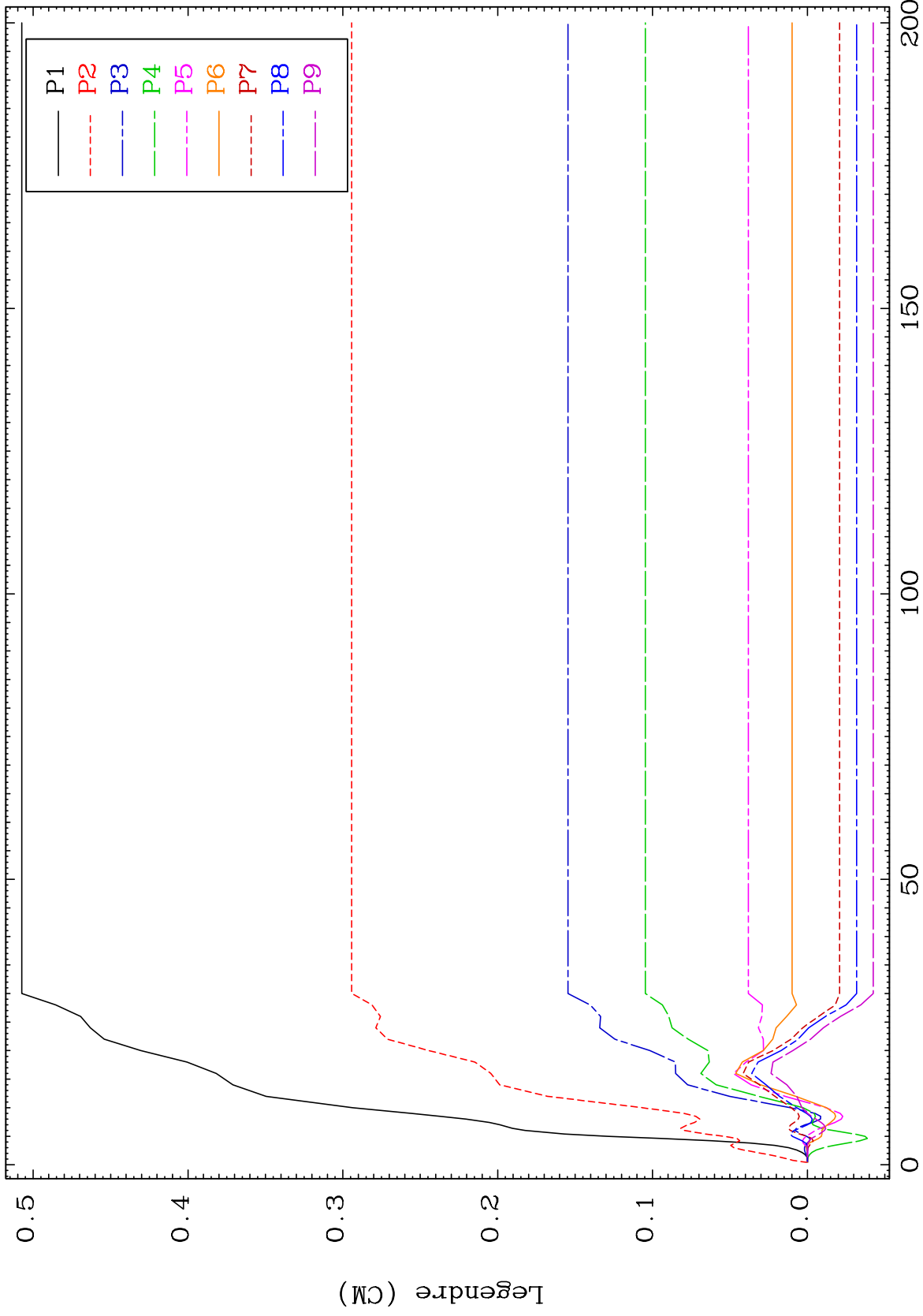
59-Pr-151



MAT 5955

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

59-Pr-151



33

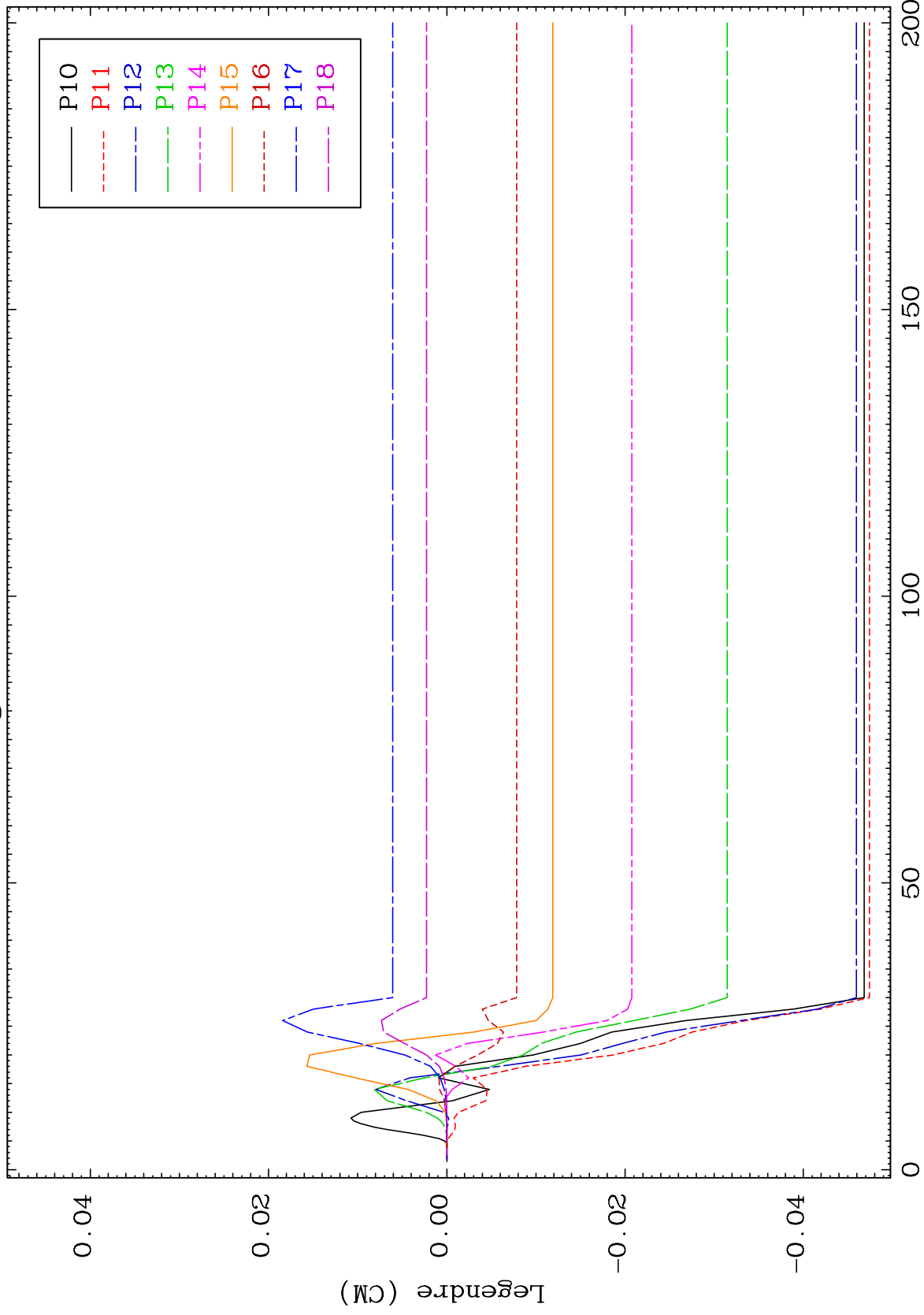
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



34

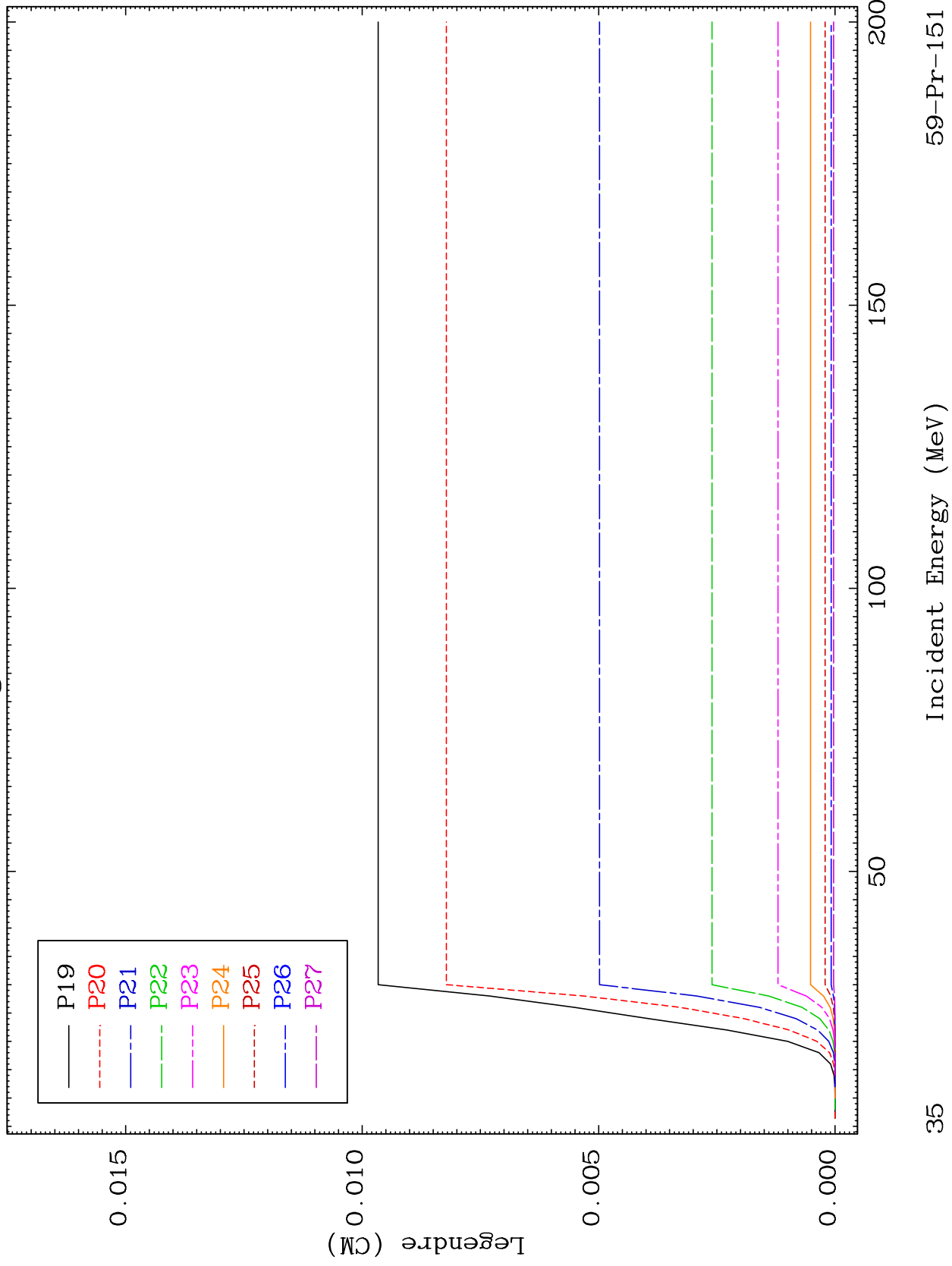
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



35

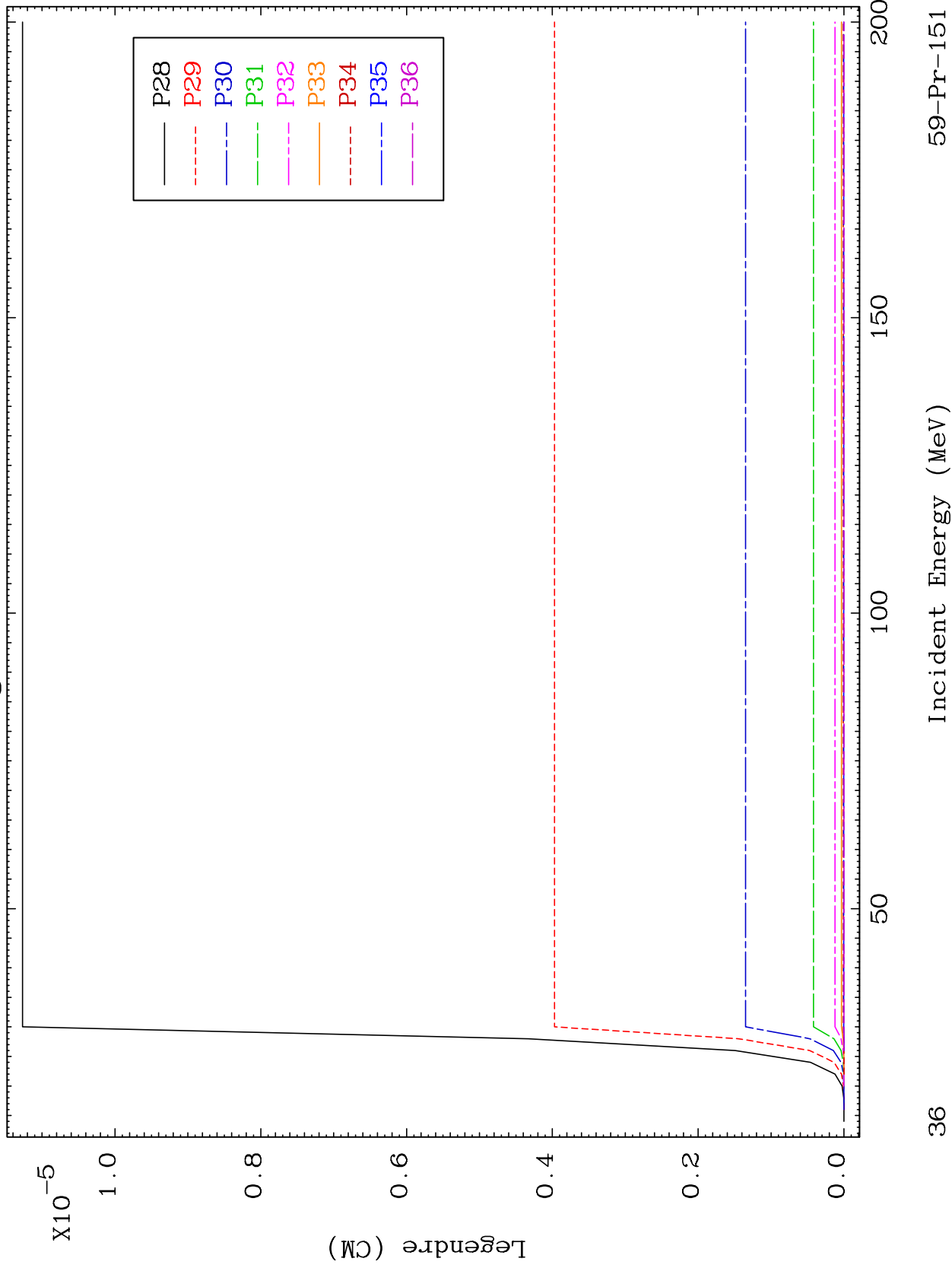
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

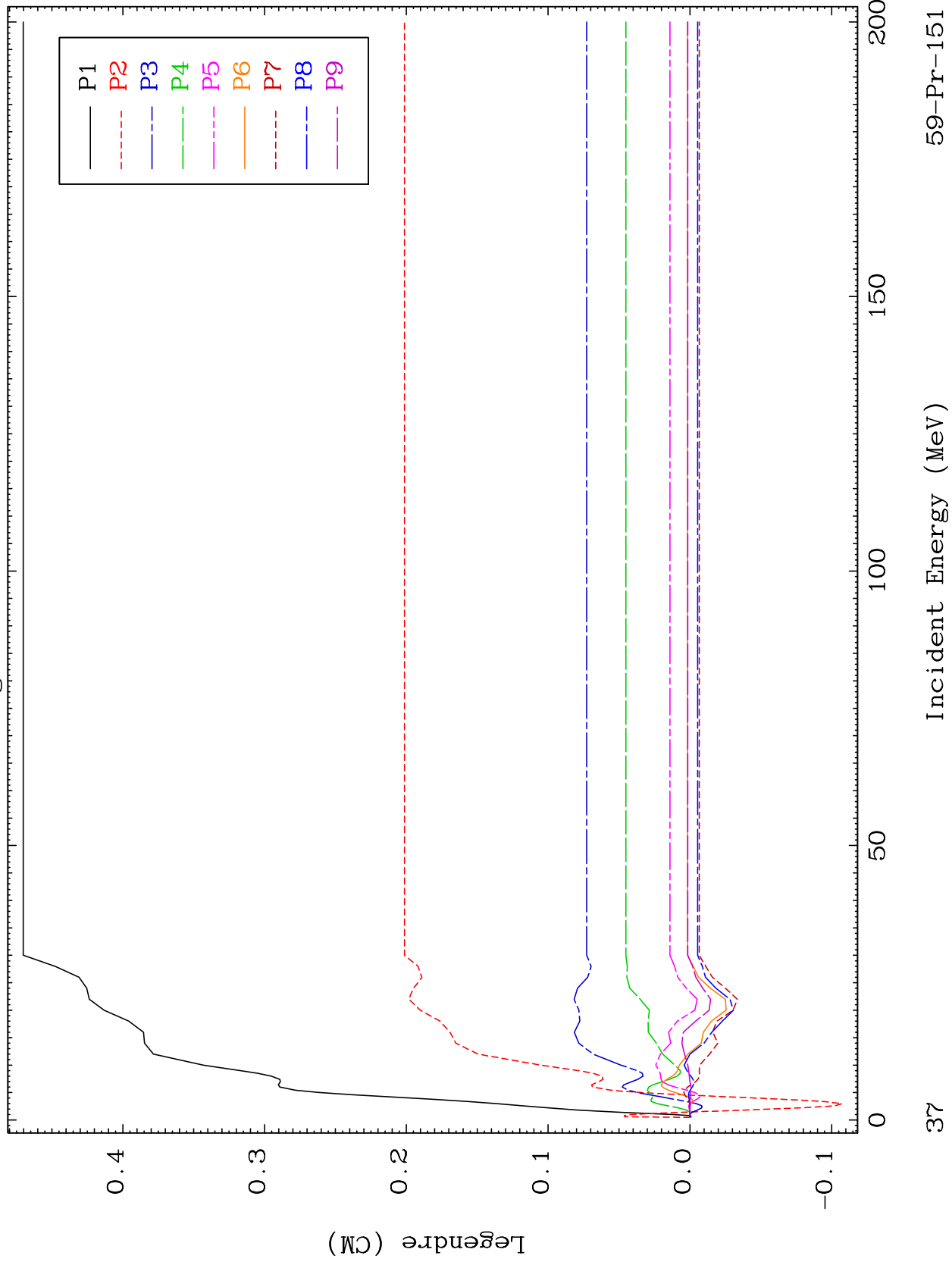
59-Pr-151



MAT 5955

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

59-Pr-151



59-Pr-151

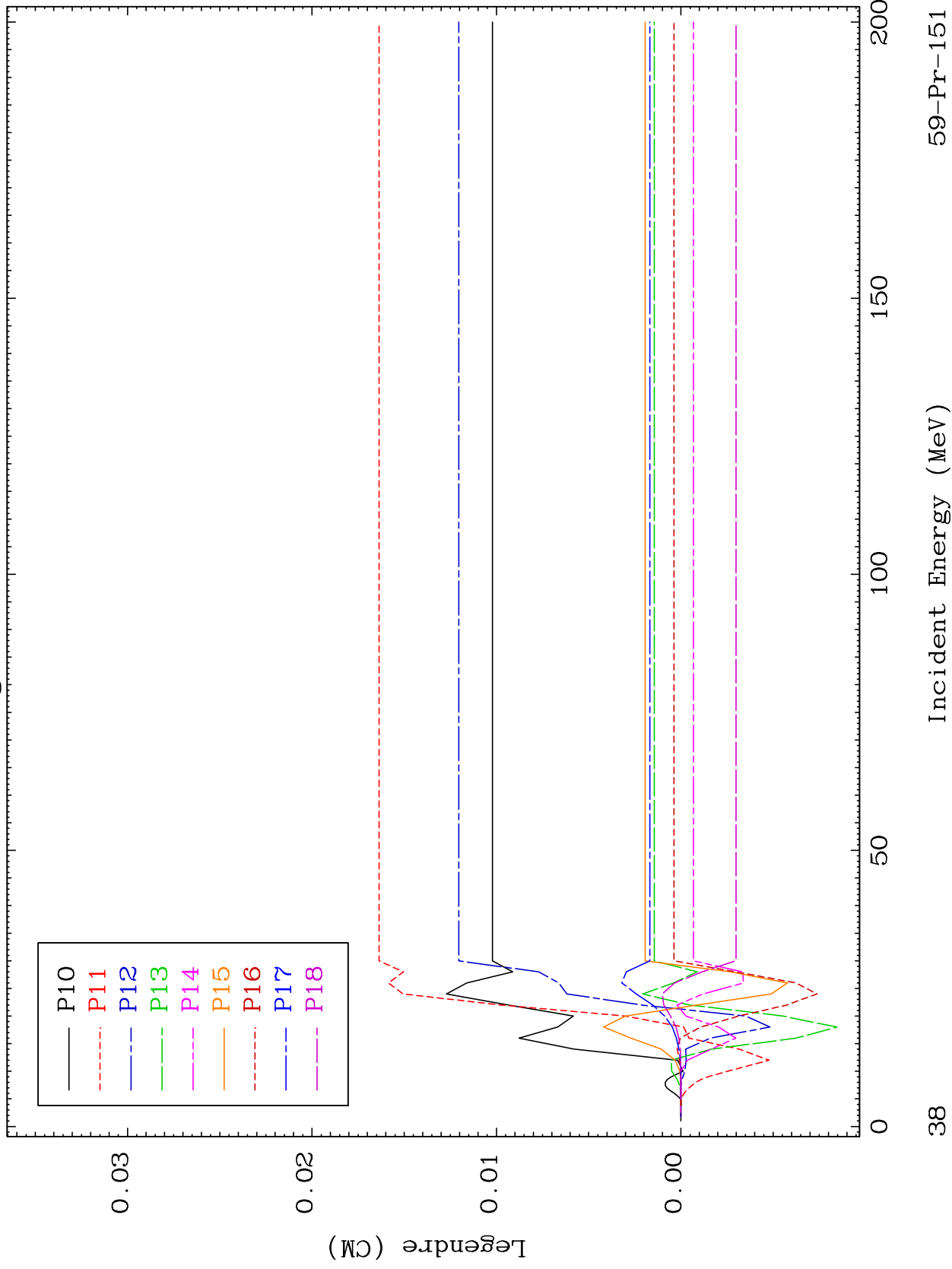
Incident Energy (MeV)

37

MAT 5955

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

59-Pr-151



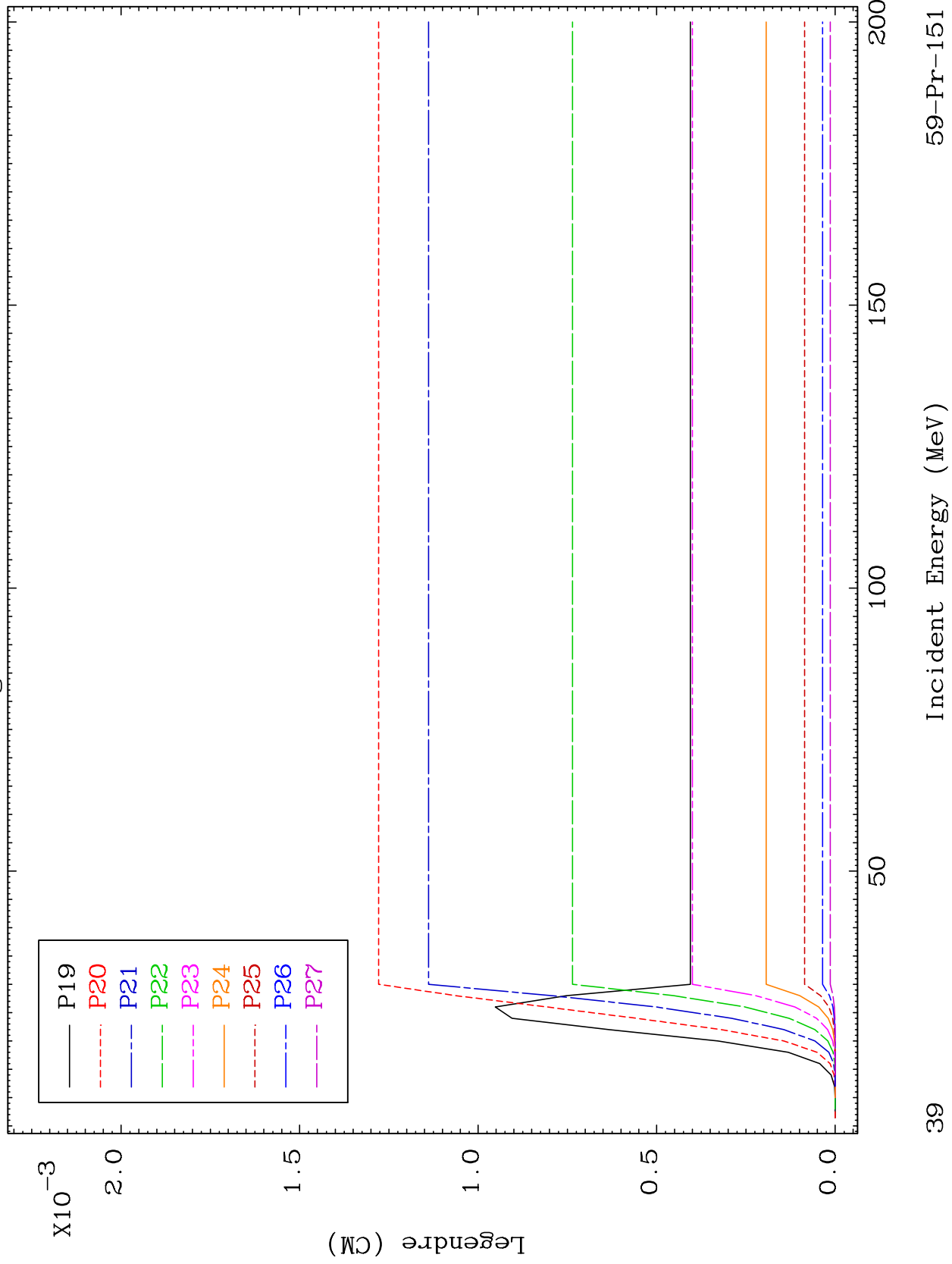
38

59-Pr-151

MAT 5955

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

59-Pr-151



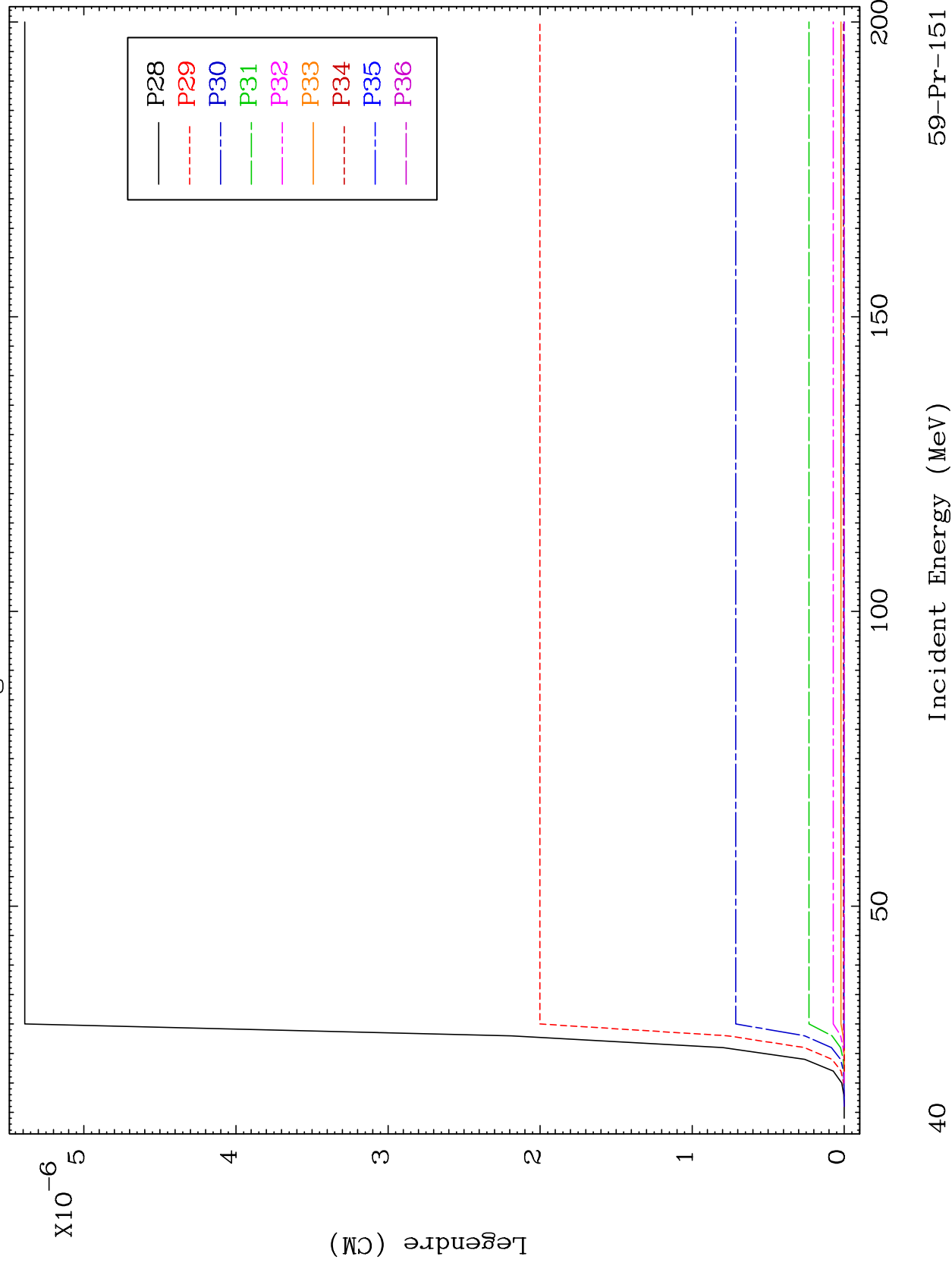
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59-Pr-151

MAT 5955

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

59-Pr-151



40

50

100

150

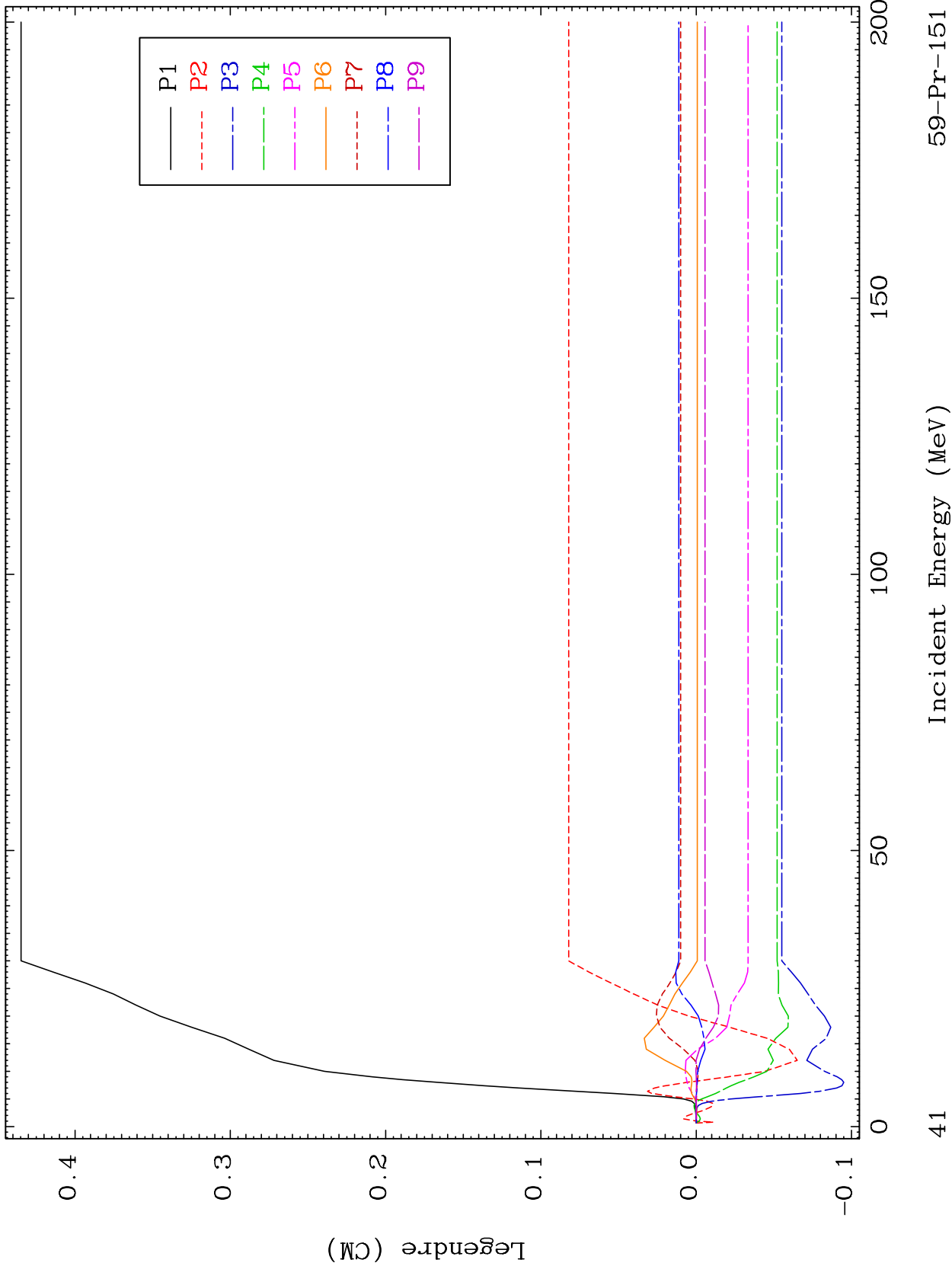
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59-Pr-151

MAT 5955

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

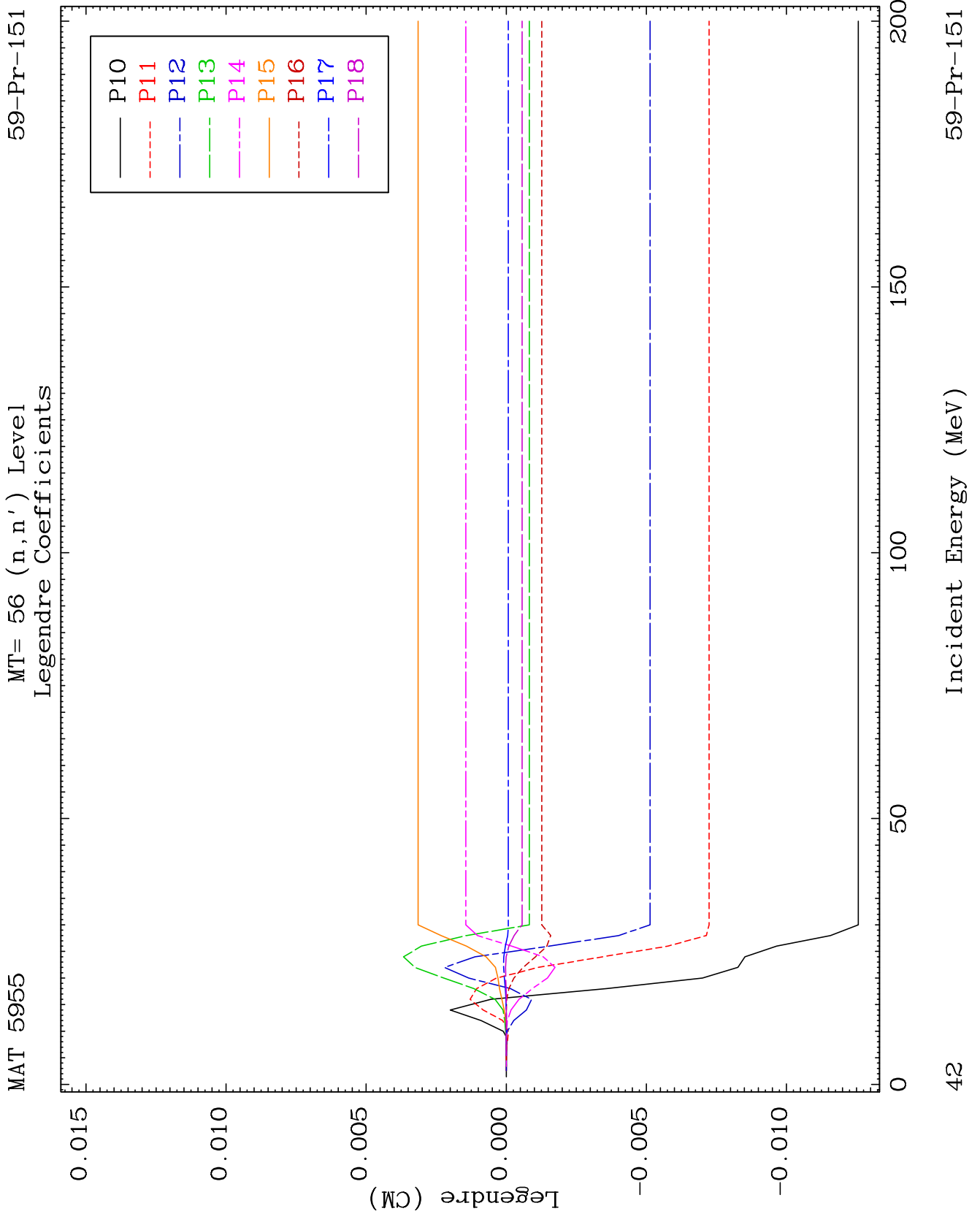
59-Pr-151



59-Pr-151

Incident Energy (MeV)

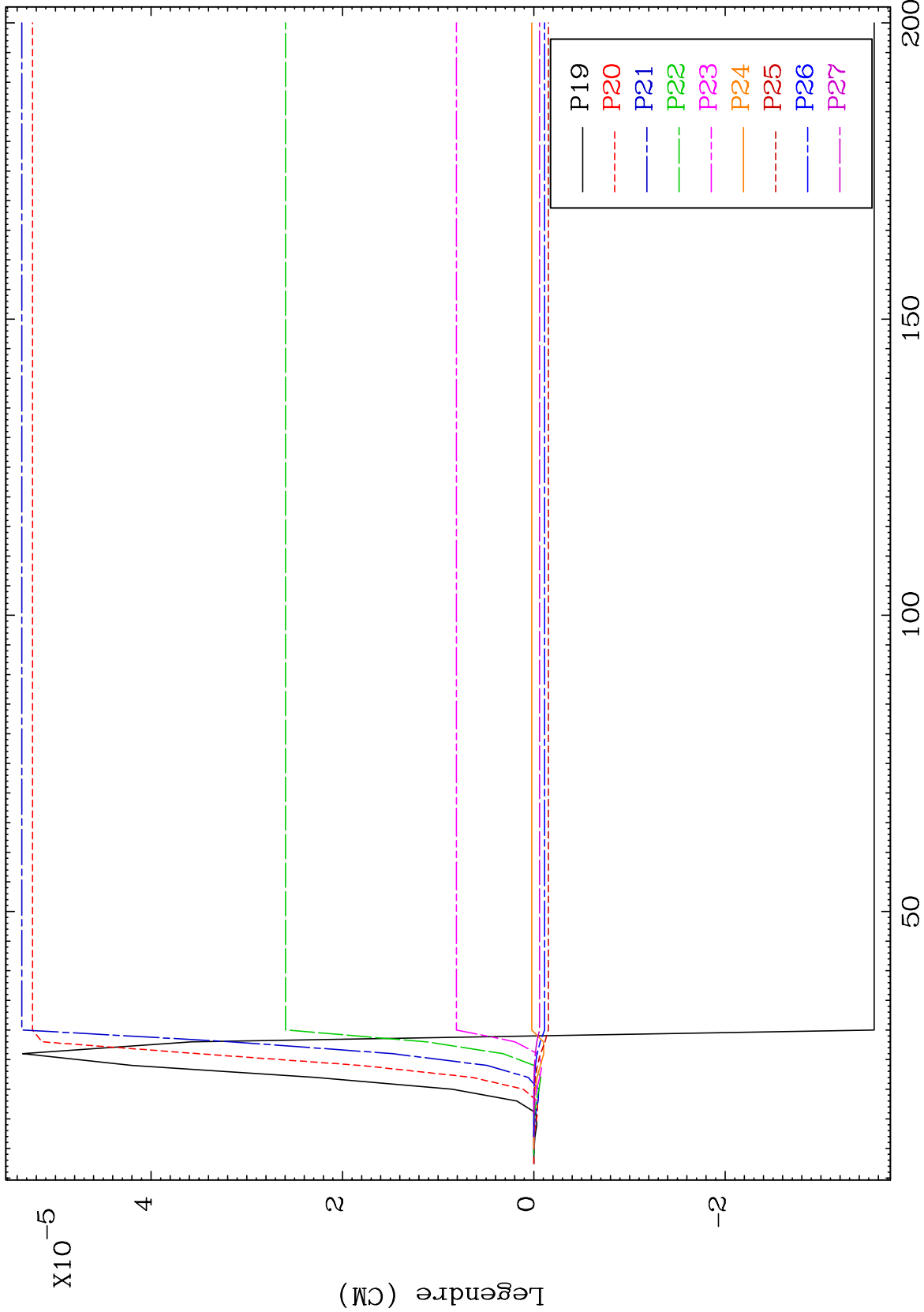
41



MAT 5955

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

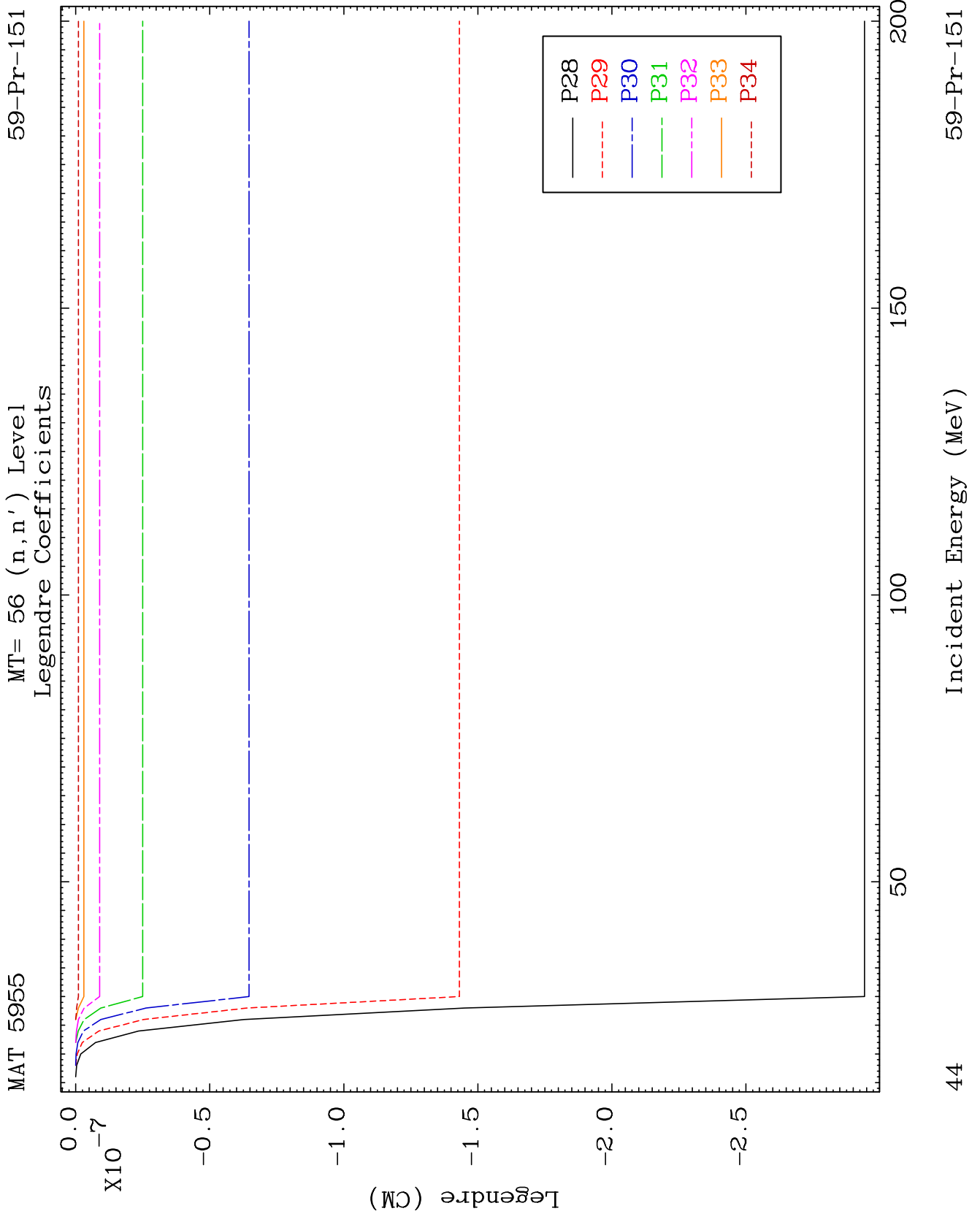
59-Pr-151



43

Incident Energy (MeV)

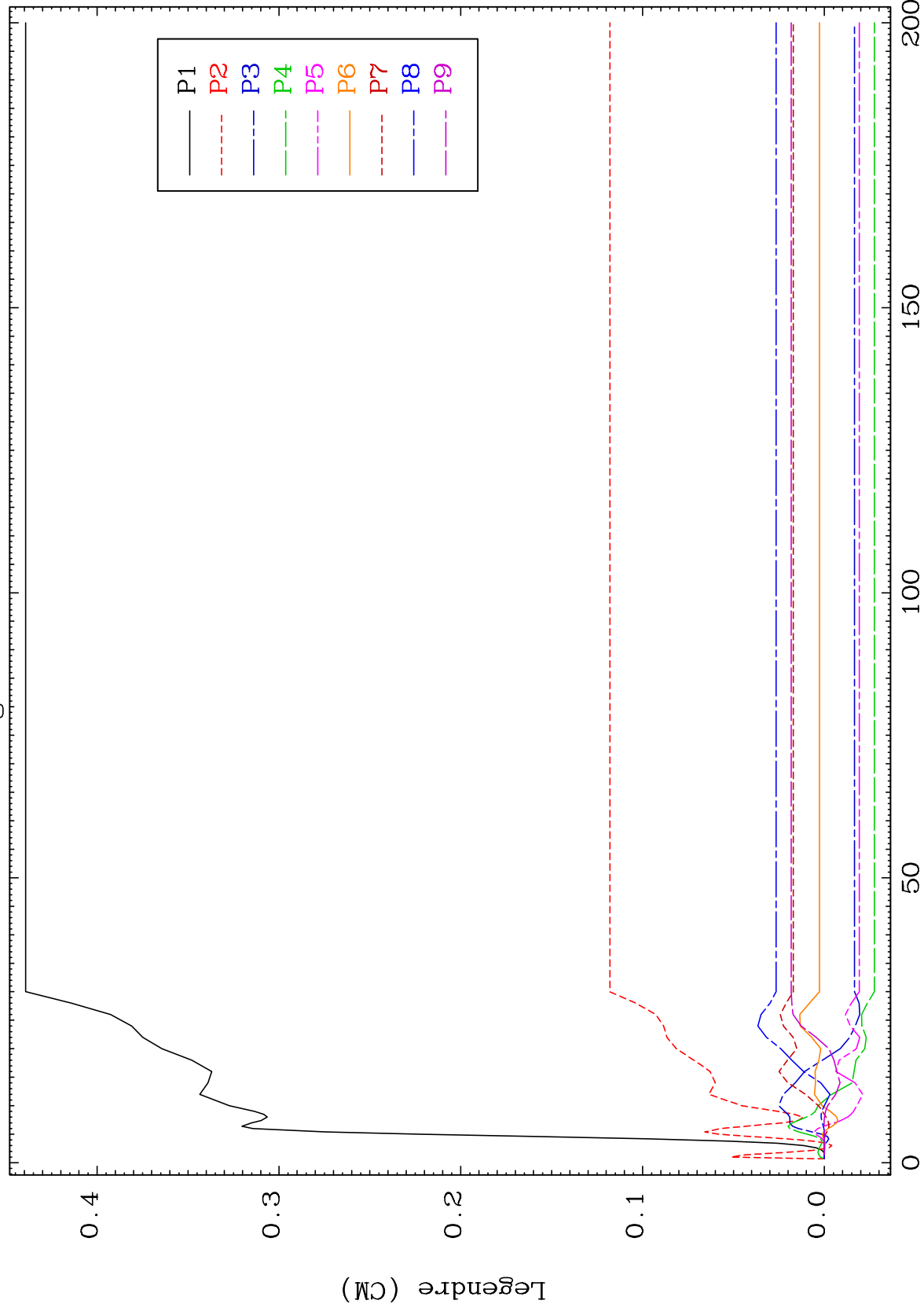
59-Pr-151



MAT 5955

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

59-Pr-151



59-Pr-151

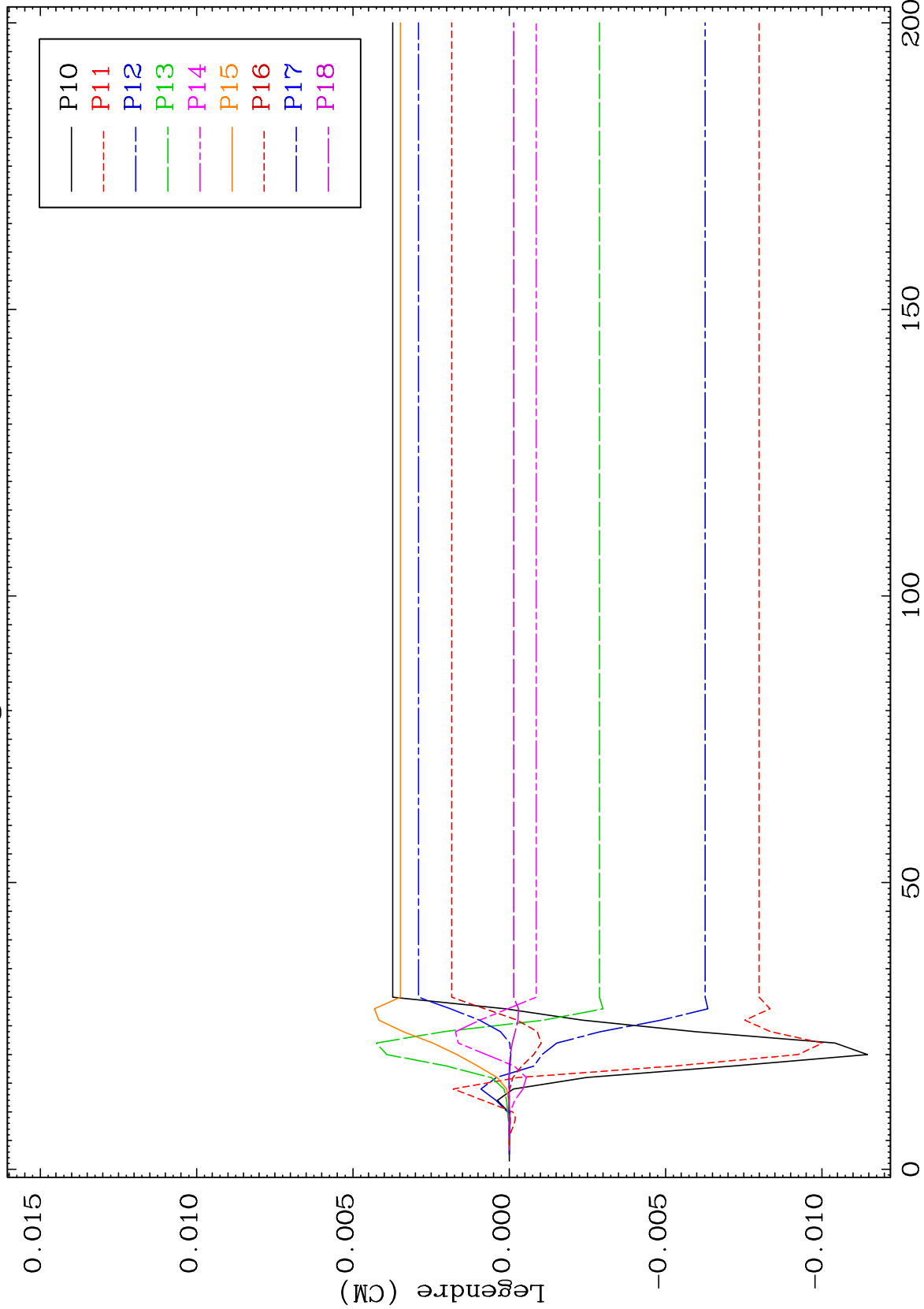
Incident Energy (MeV)

45

MAT 5955

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

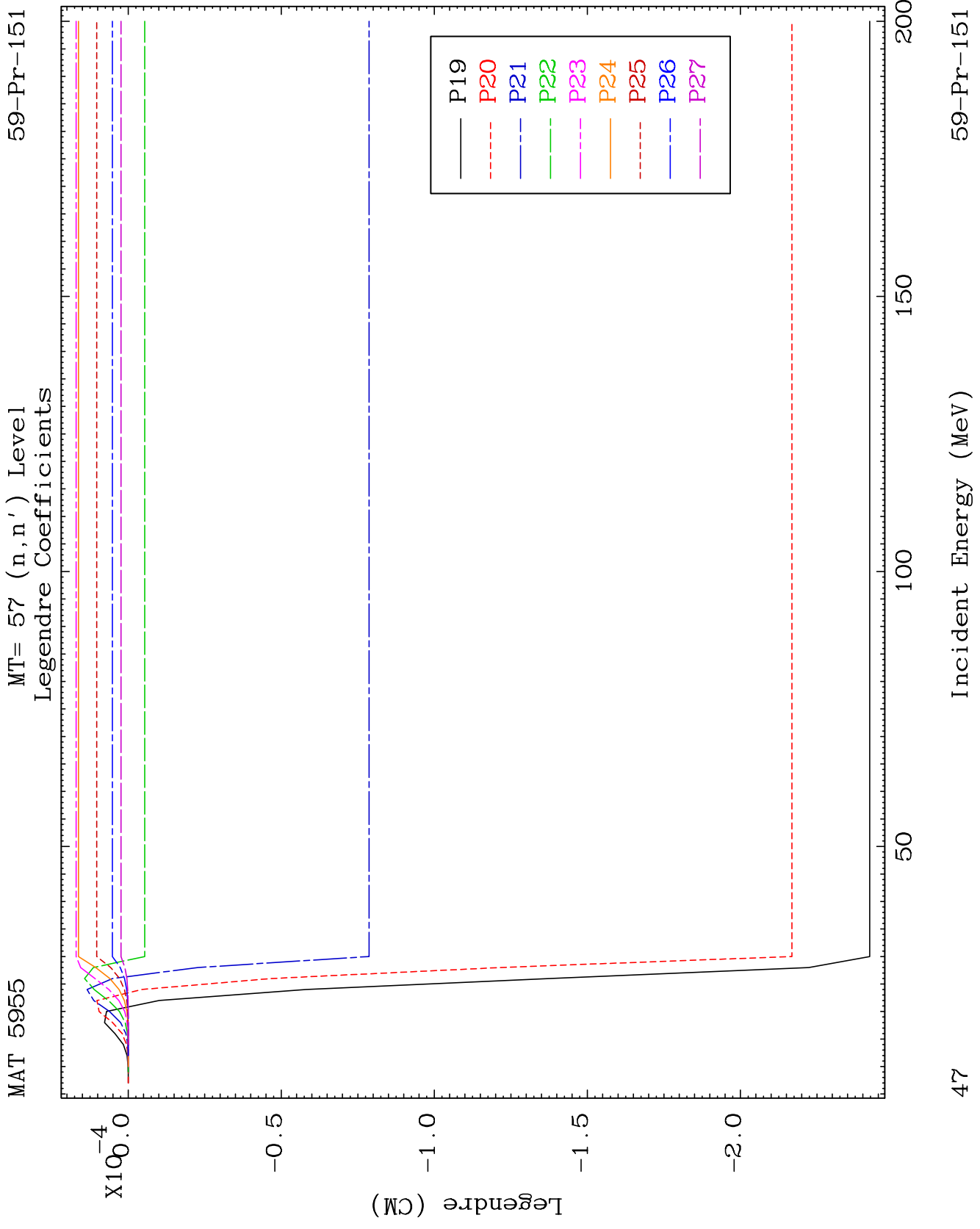
59-Pr-151



46

Incident Energy (MeV)

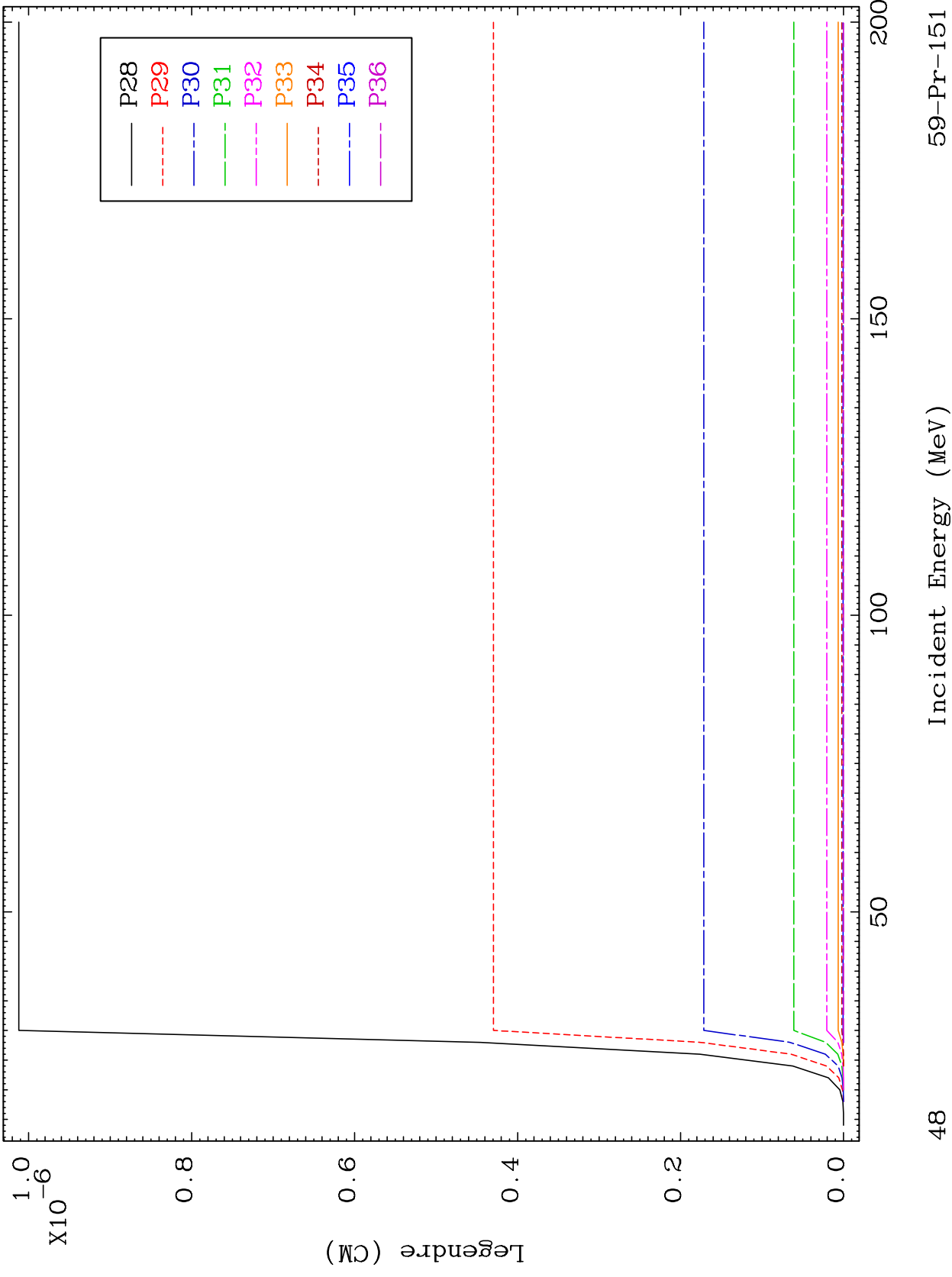
59-Pr-151



MAT 5955

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

59-Pr-151



48

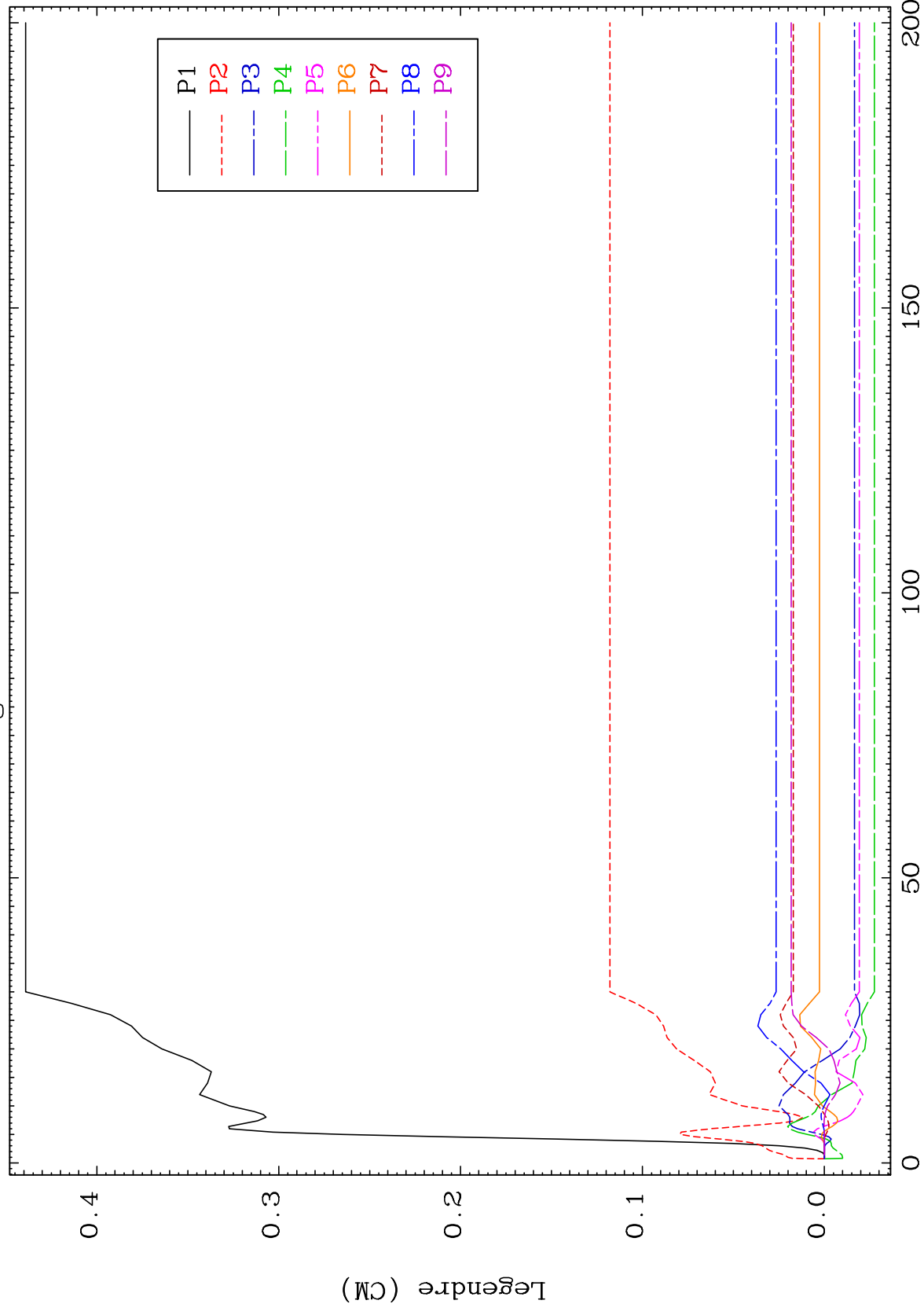
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

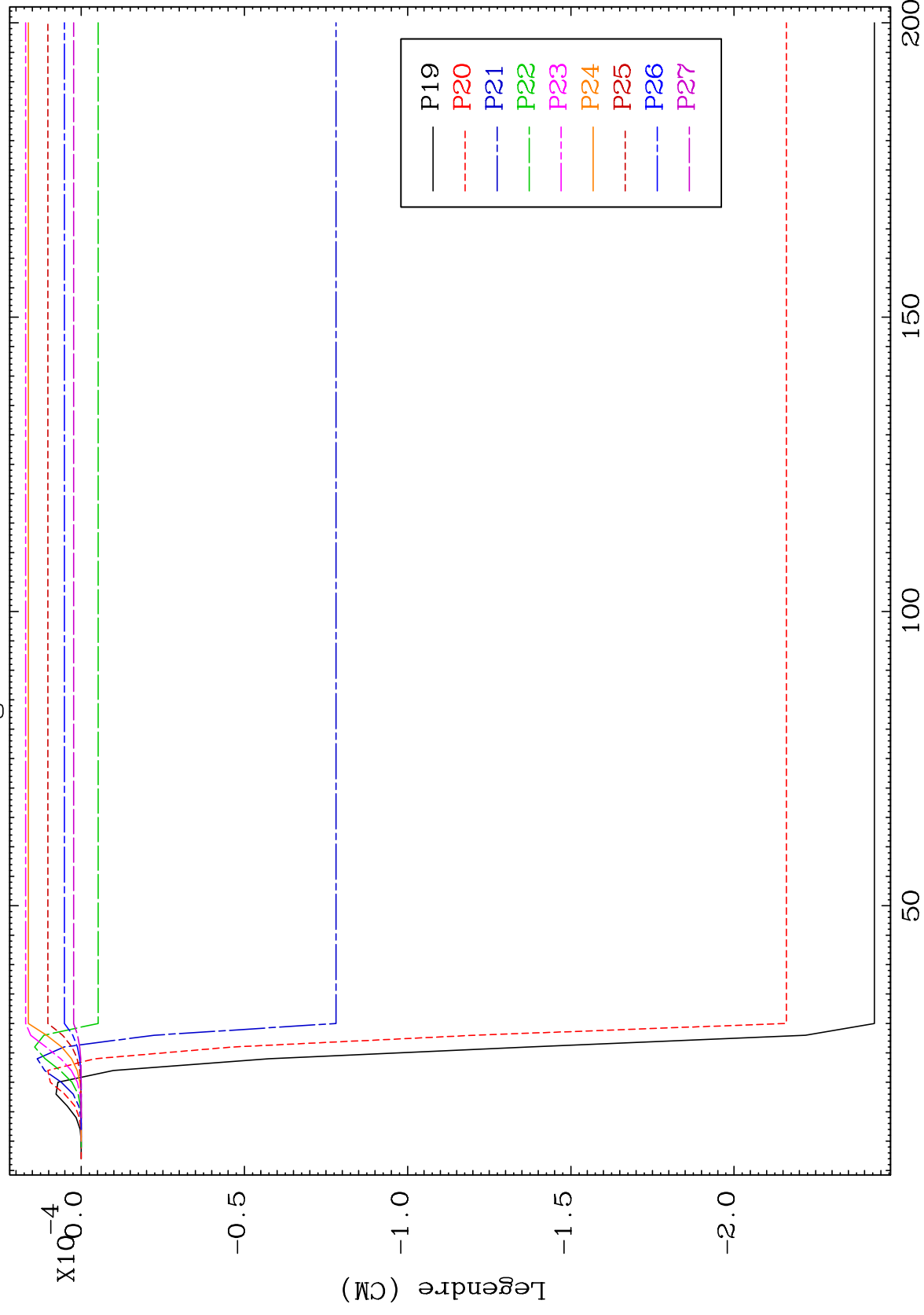
59-Pr-151



59-Pr-151

Incident Energy (MeV)

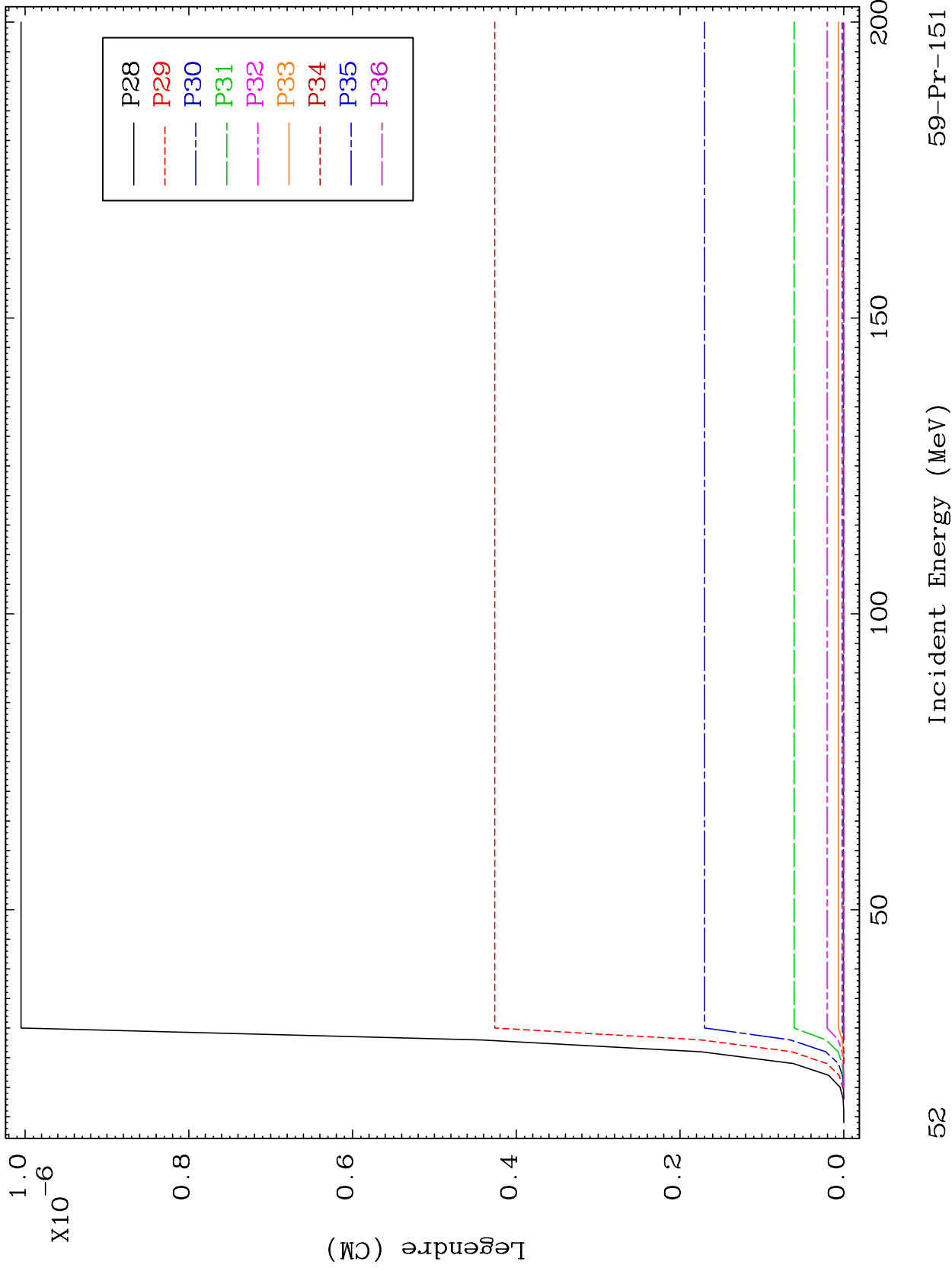
49



MAT 5955

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

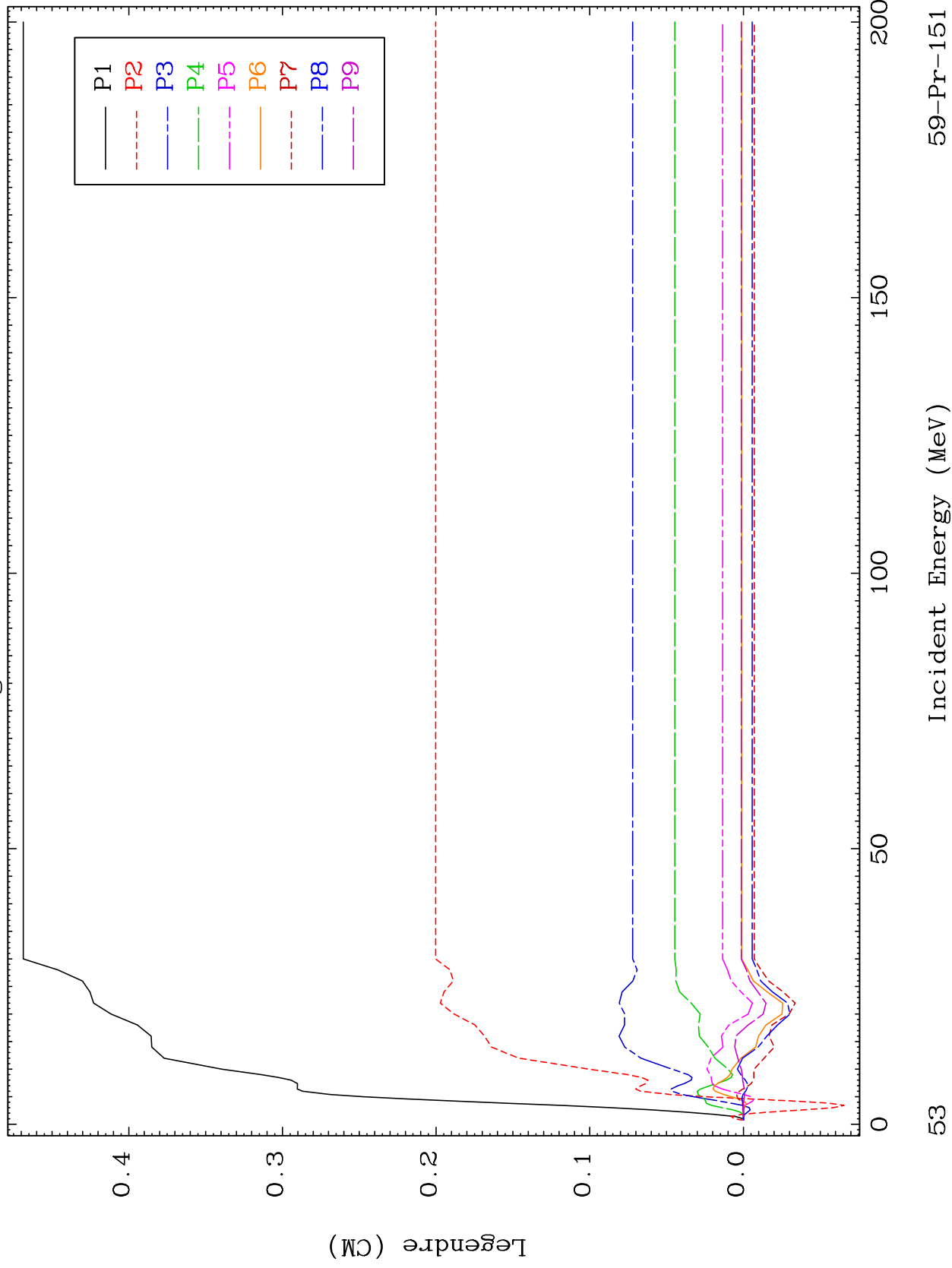
59-Pr-151



MAT 5955

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

59-Pr-151



59-Pr-151

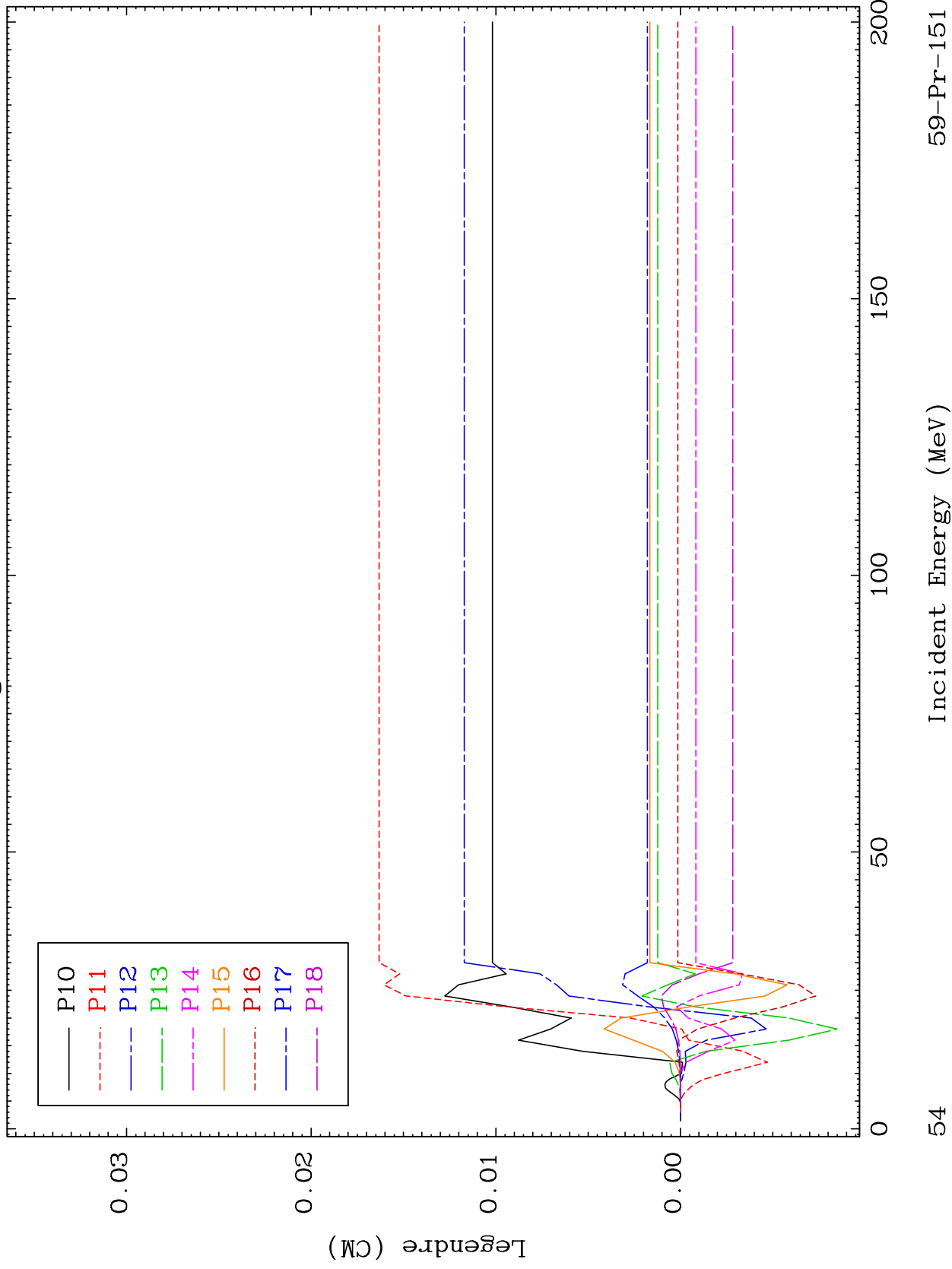
Incident Energy (MeV)

53

MAT 5955

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

59-Pr-151



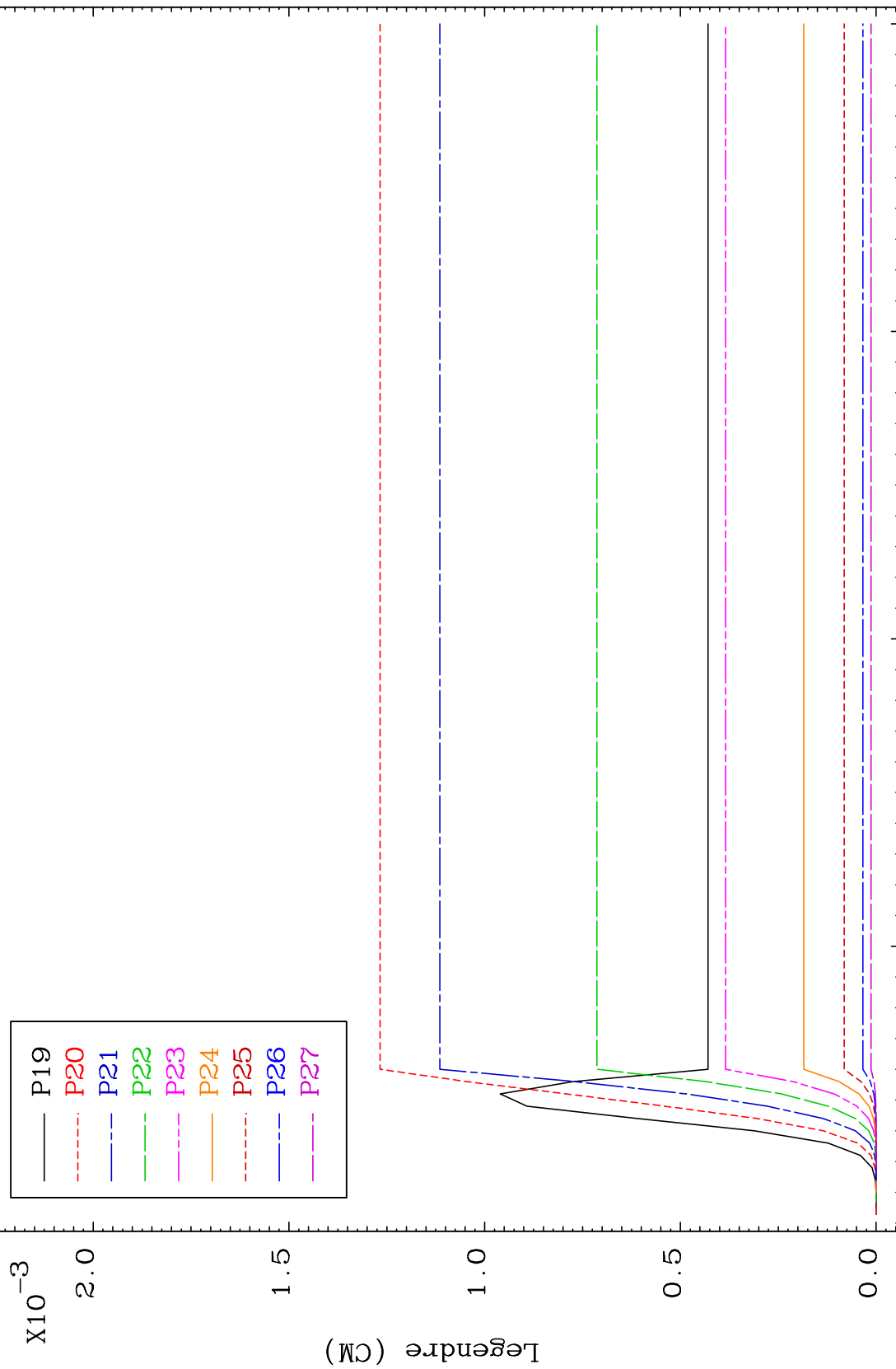
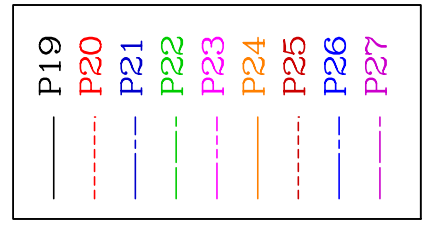
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59-Pr-151

MAT 5955

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

59-Pr-151



55

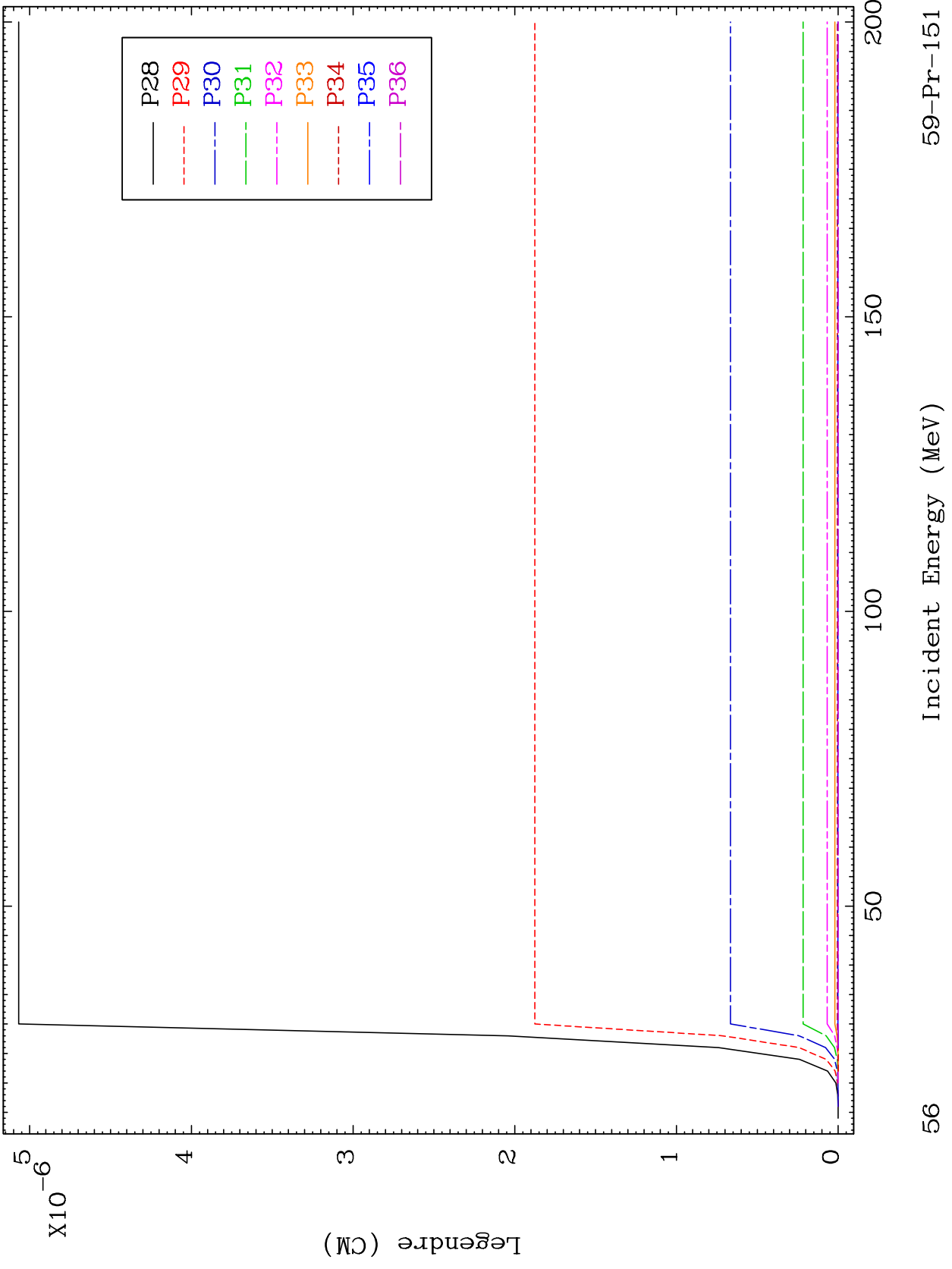
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



56

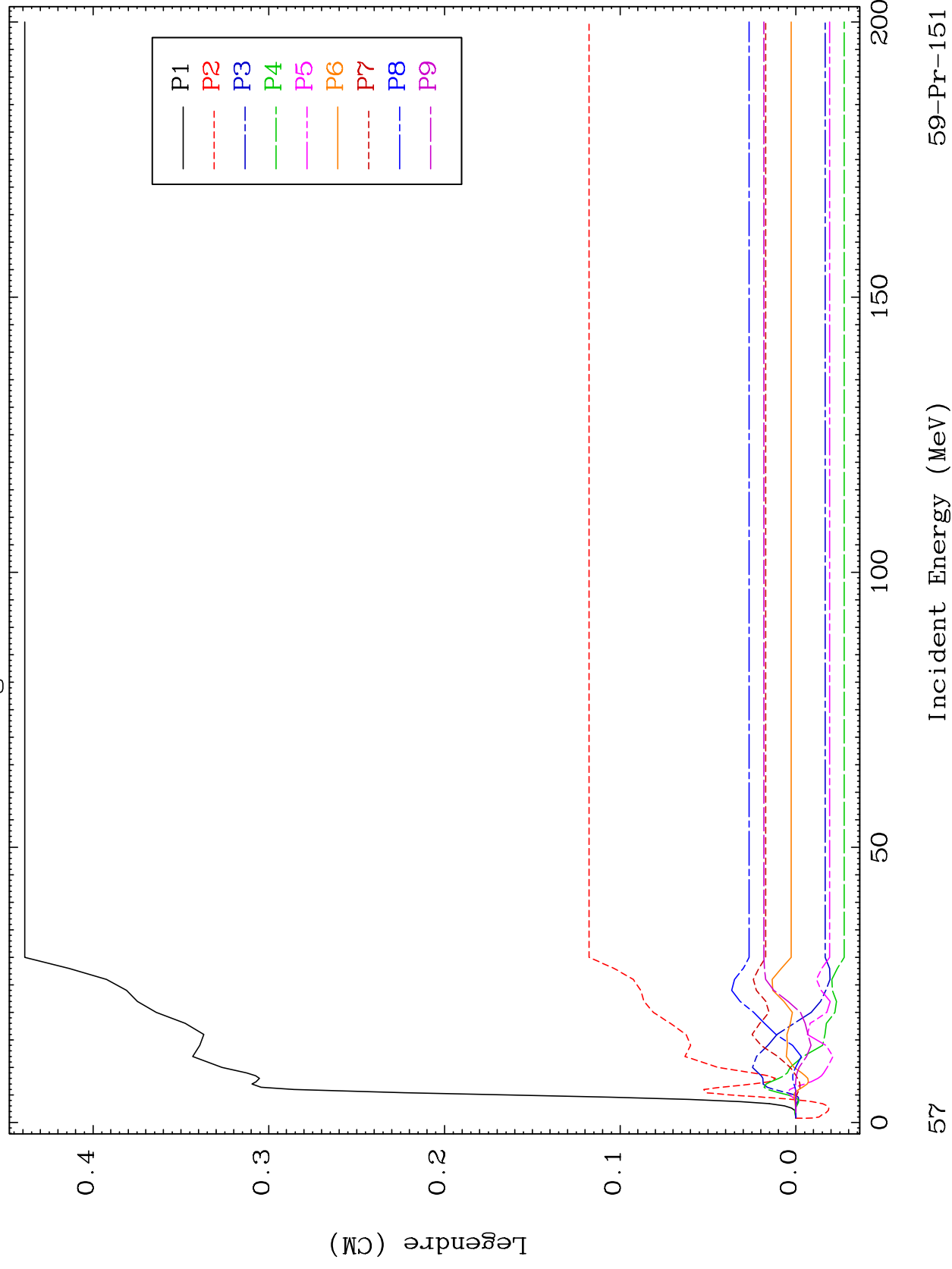
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



57

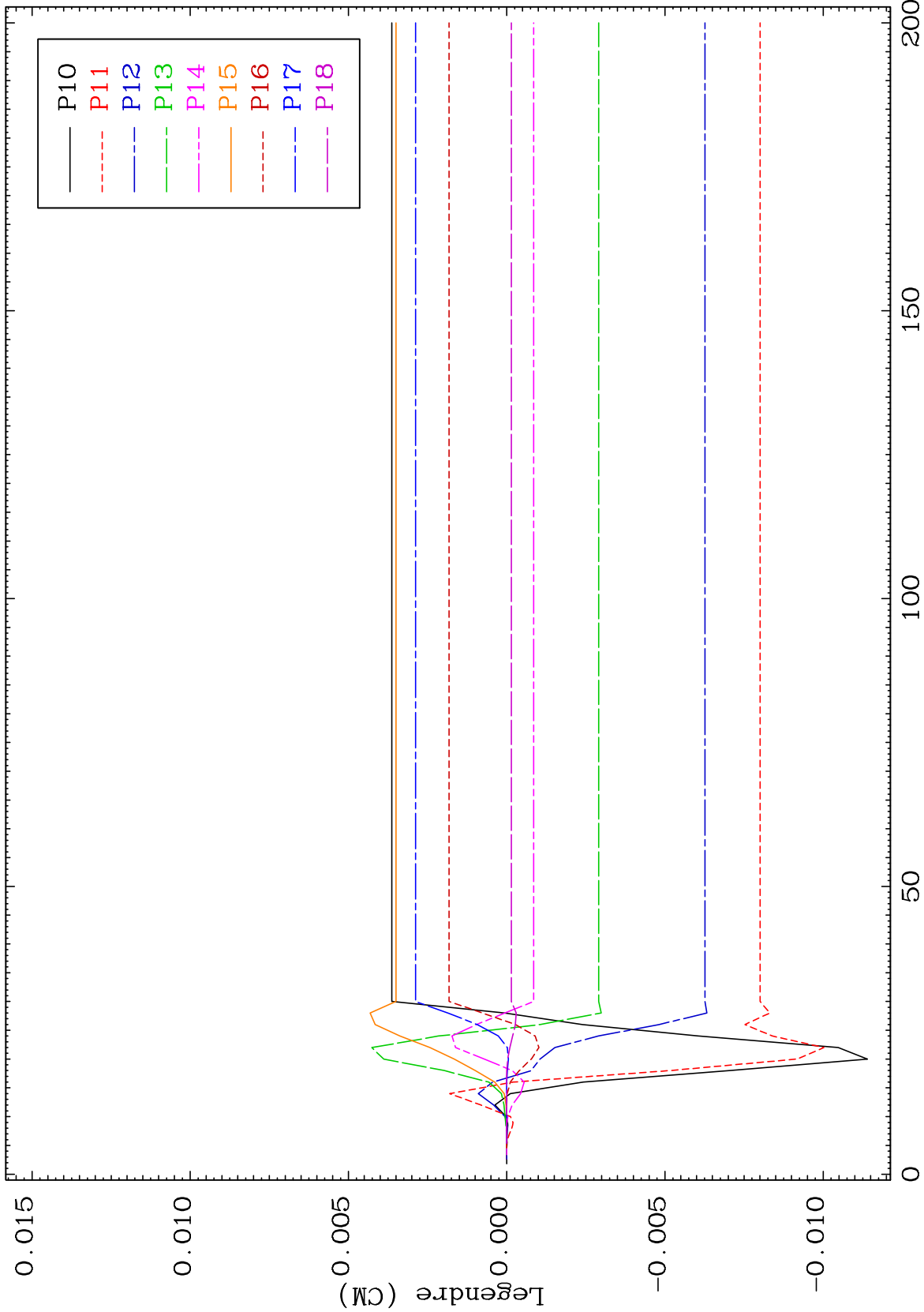
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

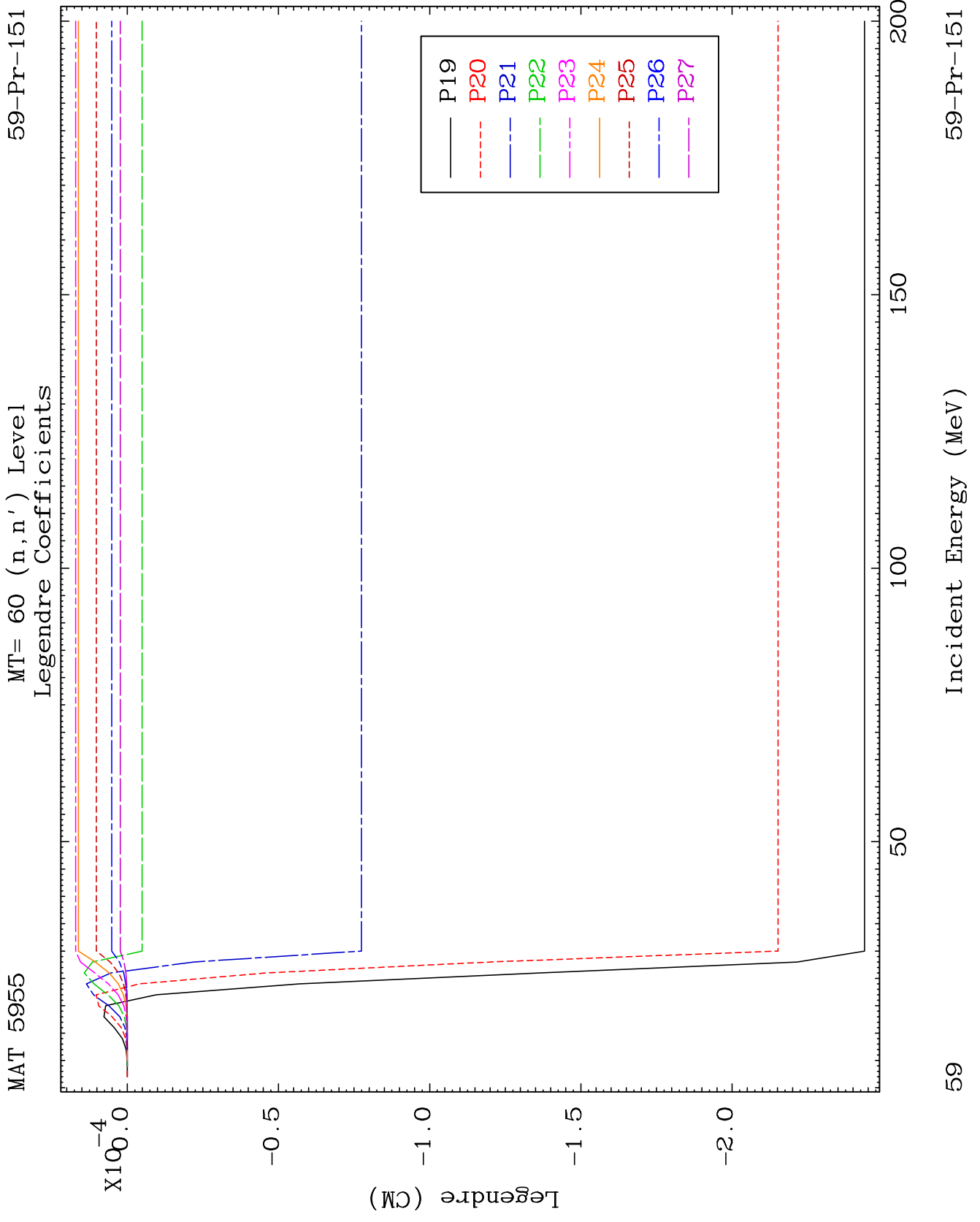
59-Pr-151



58

Incident Energy (MeV)

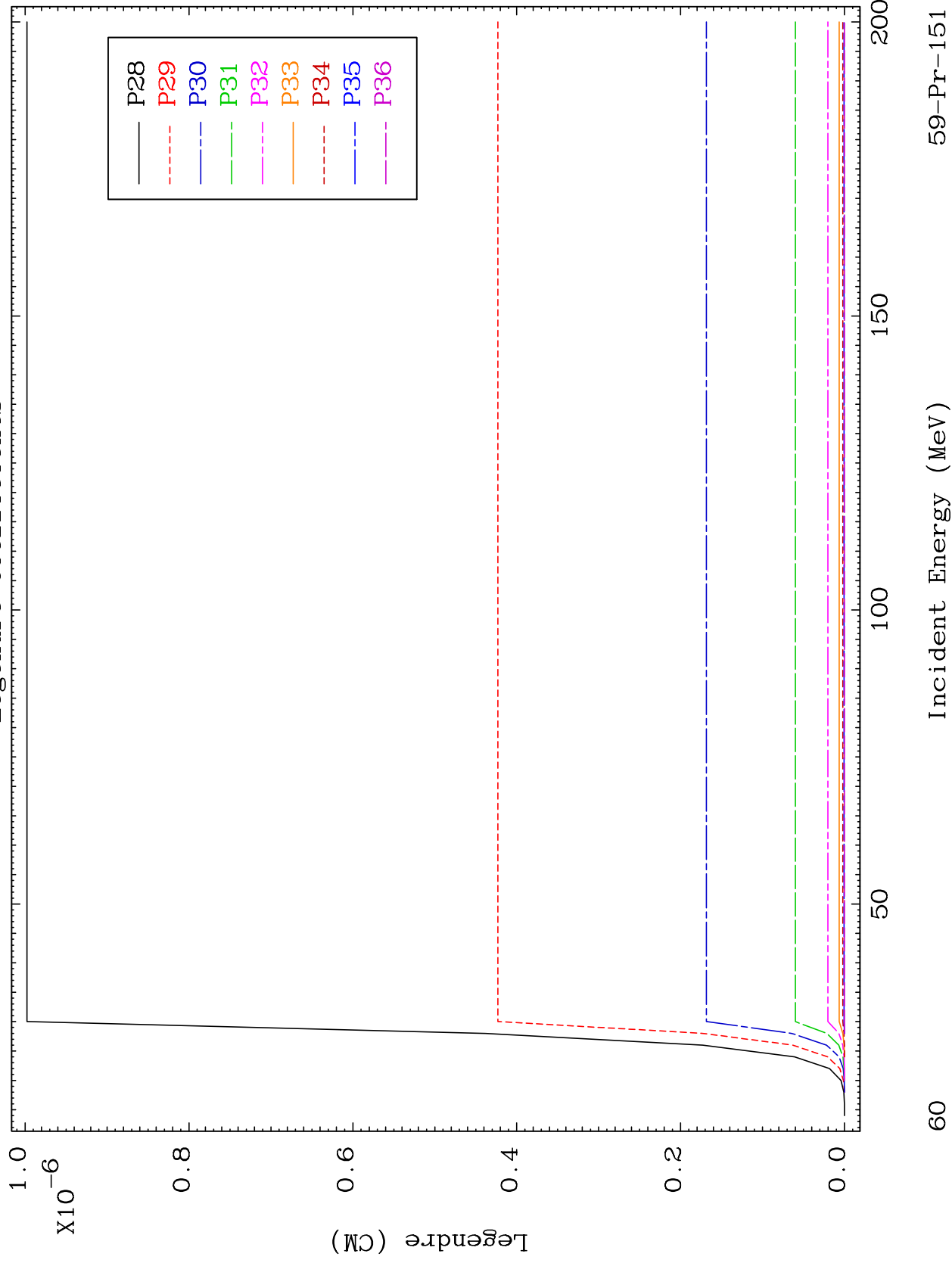
59-Pr-151



MAT 5955

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

59-Pr-151



59-Pr-151

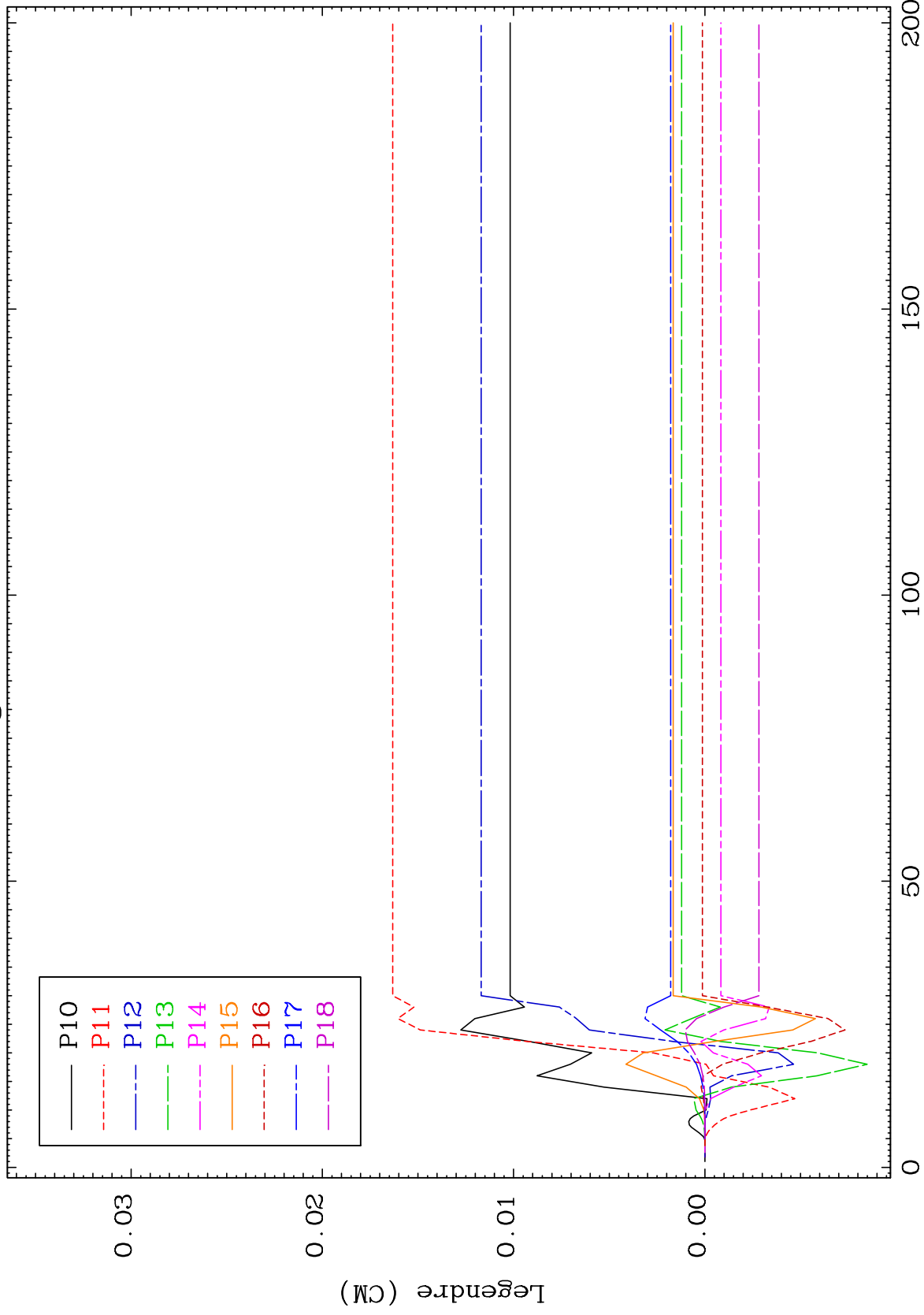
Incident Energy (MeV)

60

MAT 5955

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

59-Pr-151



62

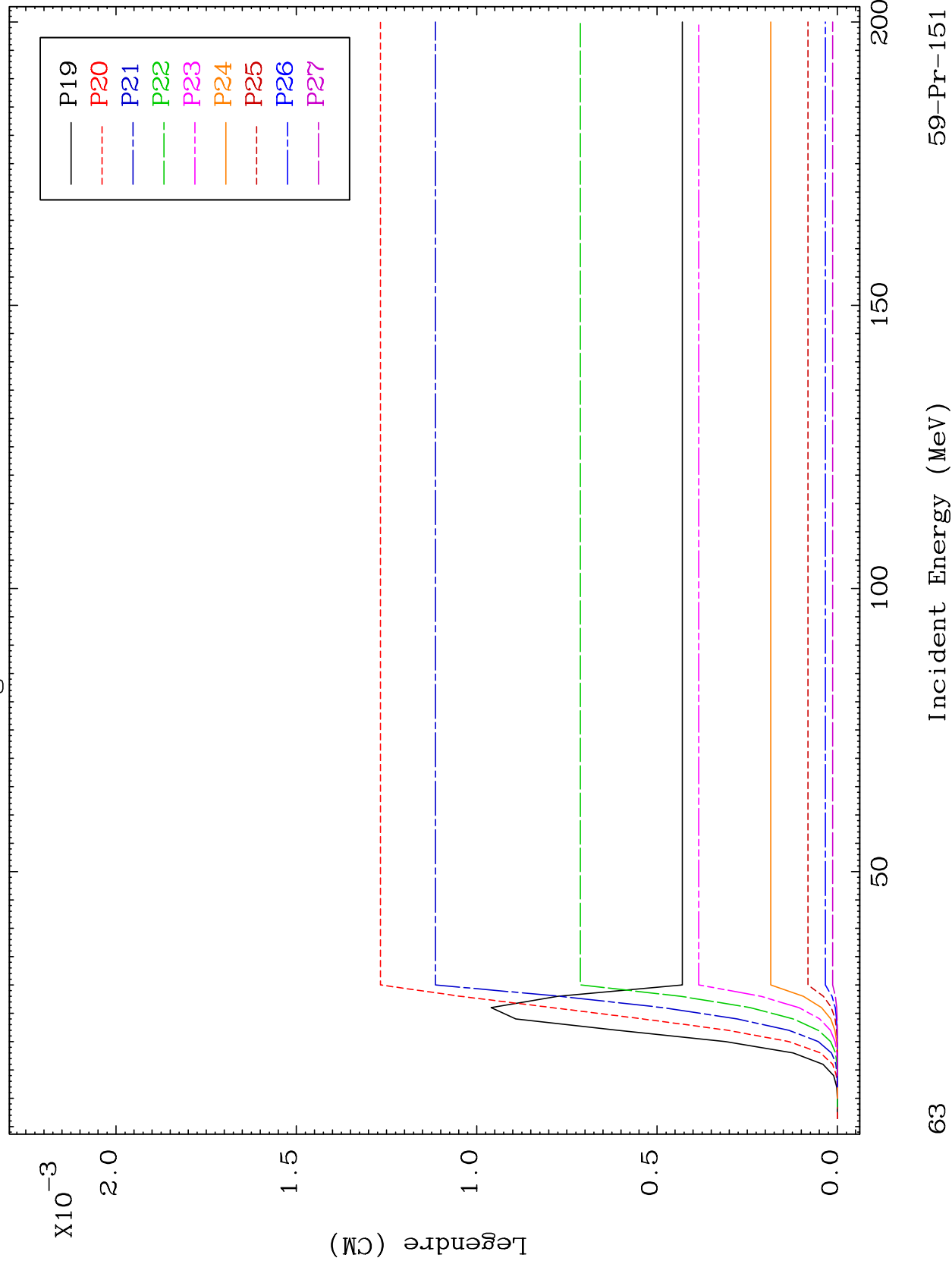
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



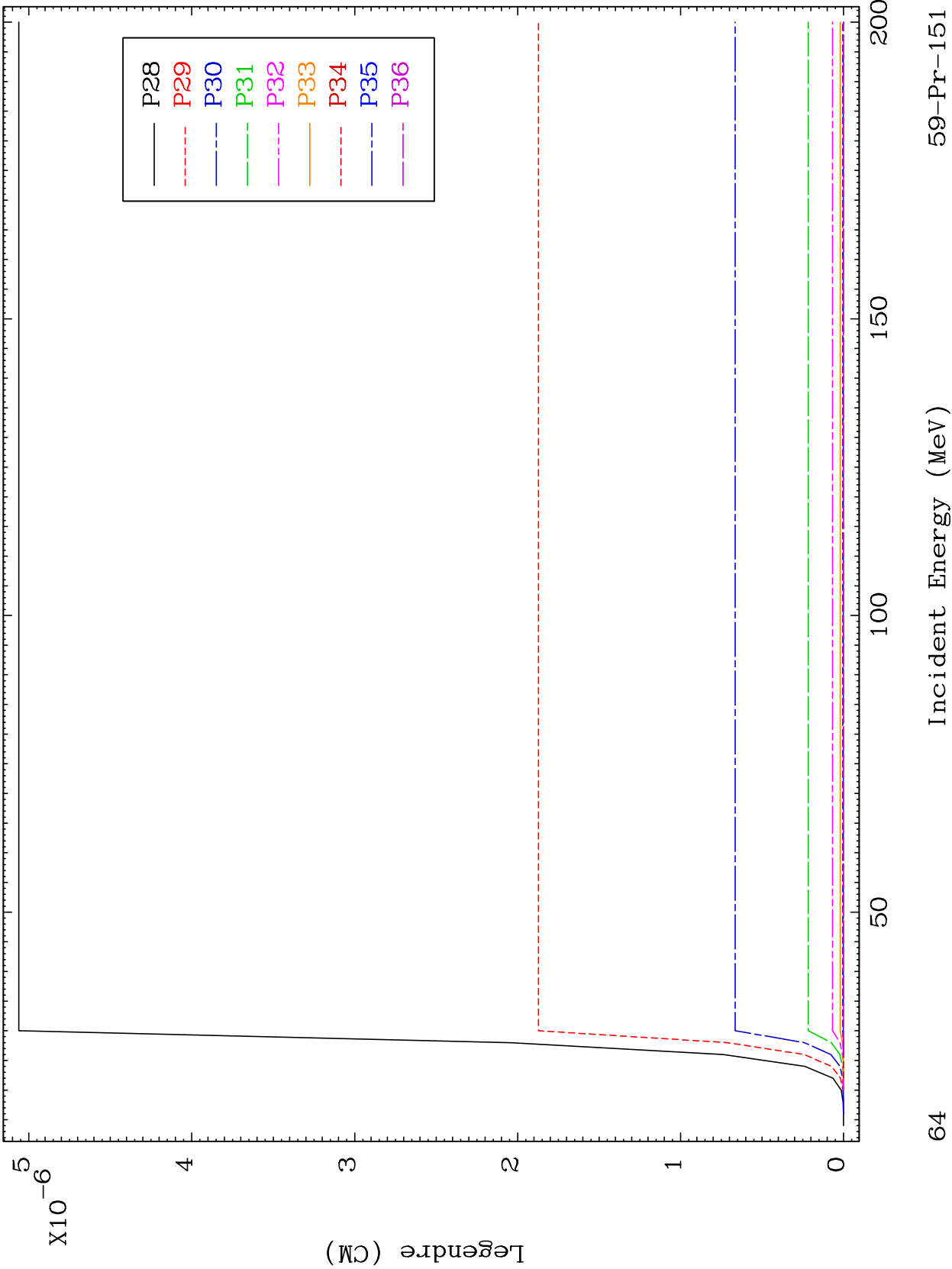
63

59-Pr-151

MAT 5955

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

59-Pr-151



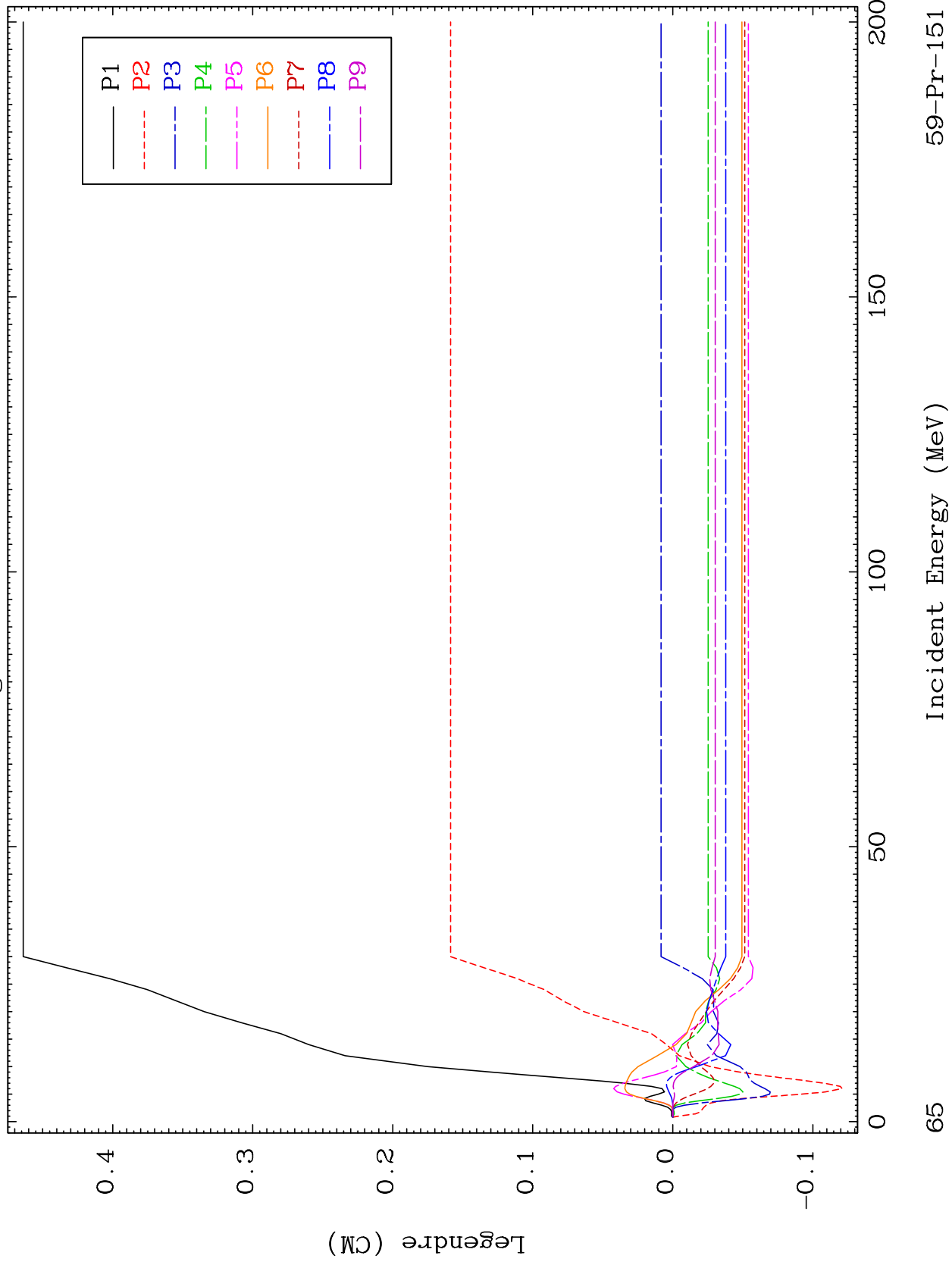
64

59-Pr-151

MAT 5955

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

59-Pr-151



59-Pr-151

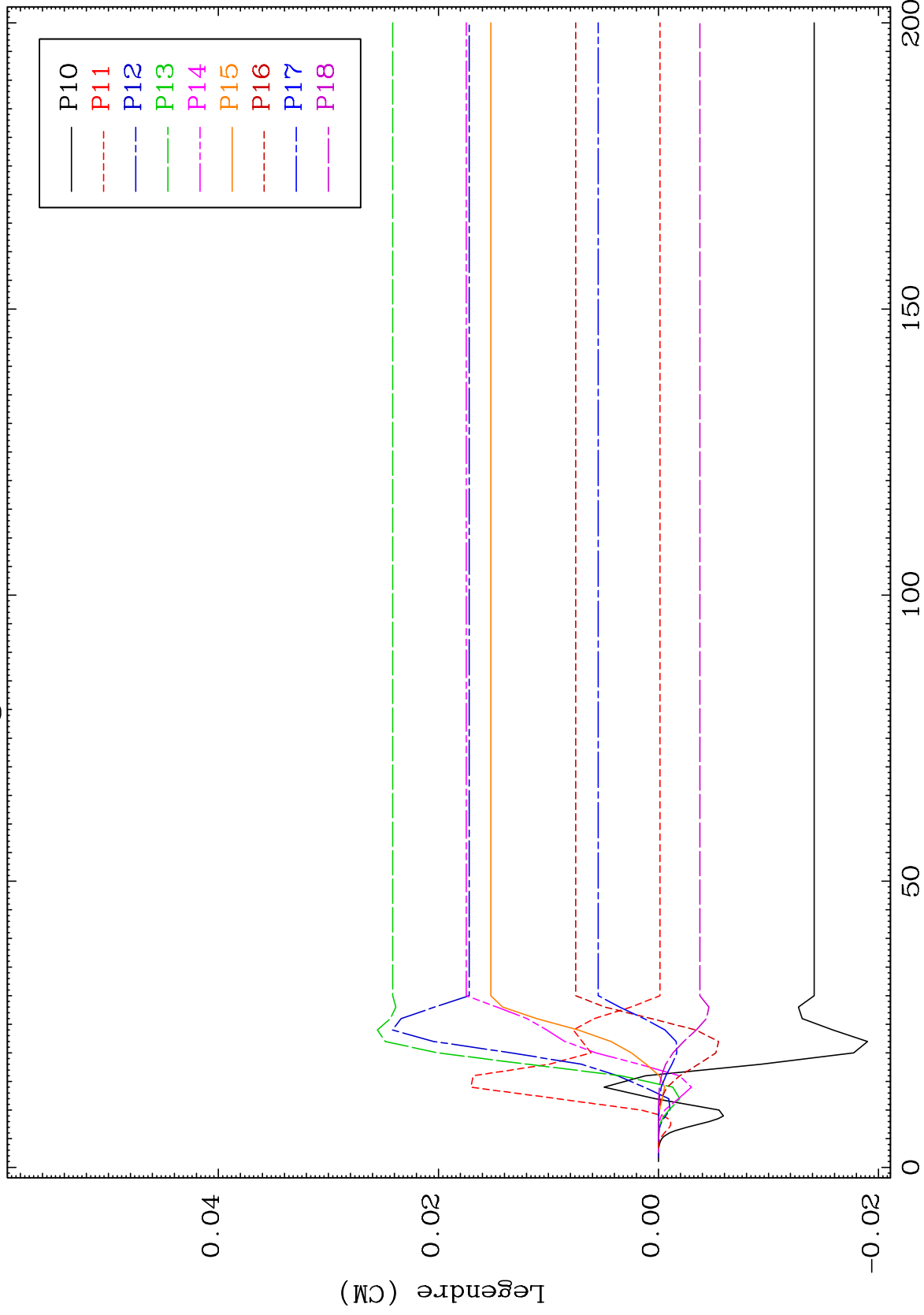
Incident Energy (MeV)

65

MAT 5955

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

59-Pr-151



66

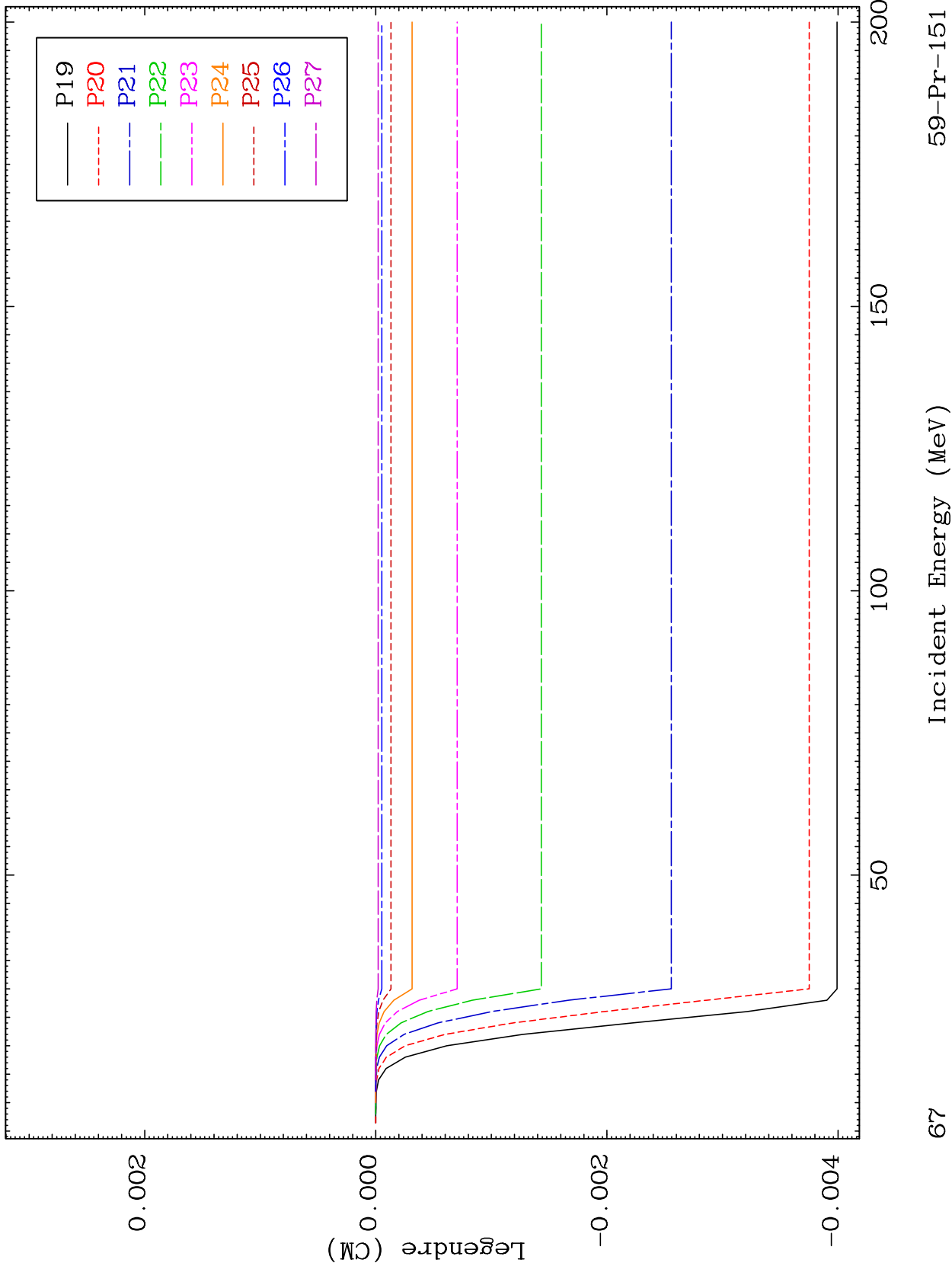
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

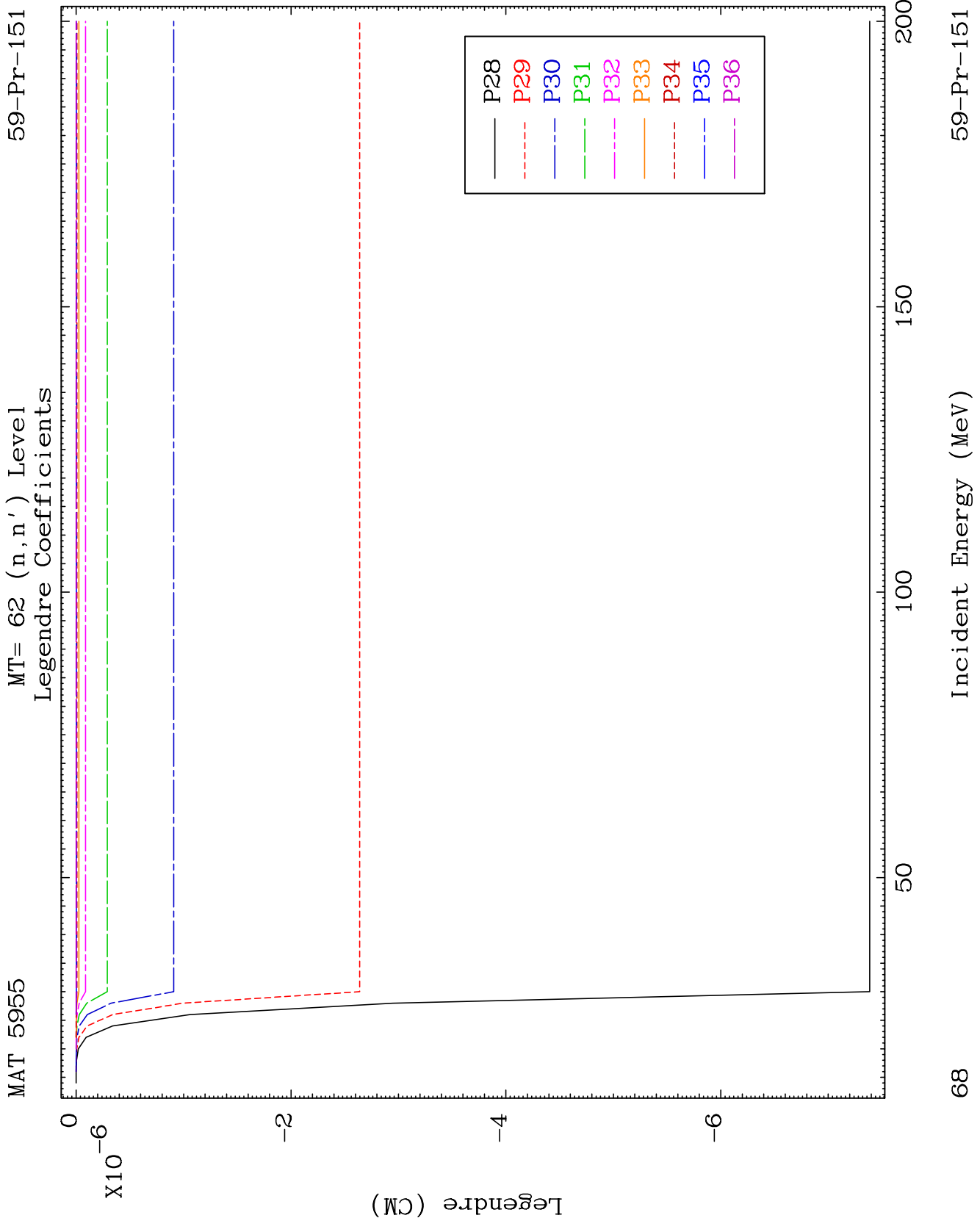
59-Pr-151



67

Incident Energy (MeV)

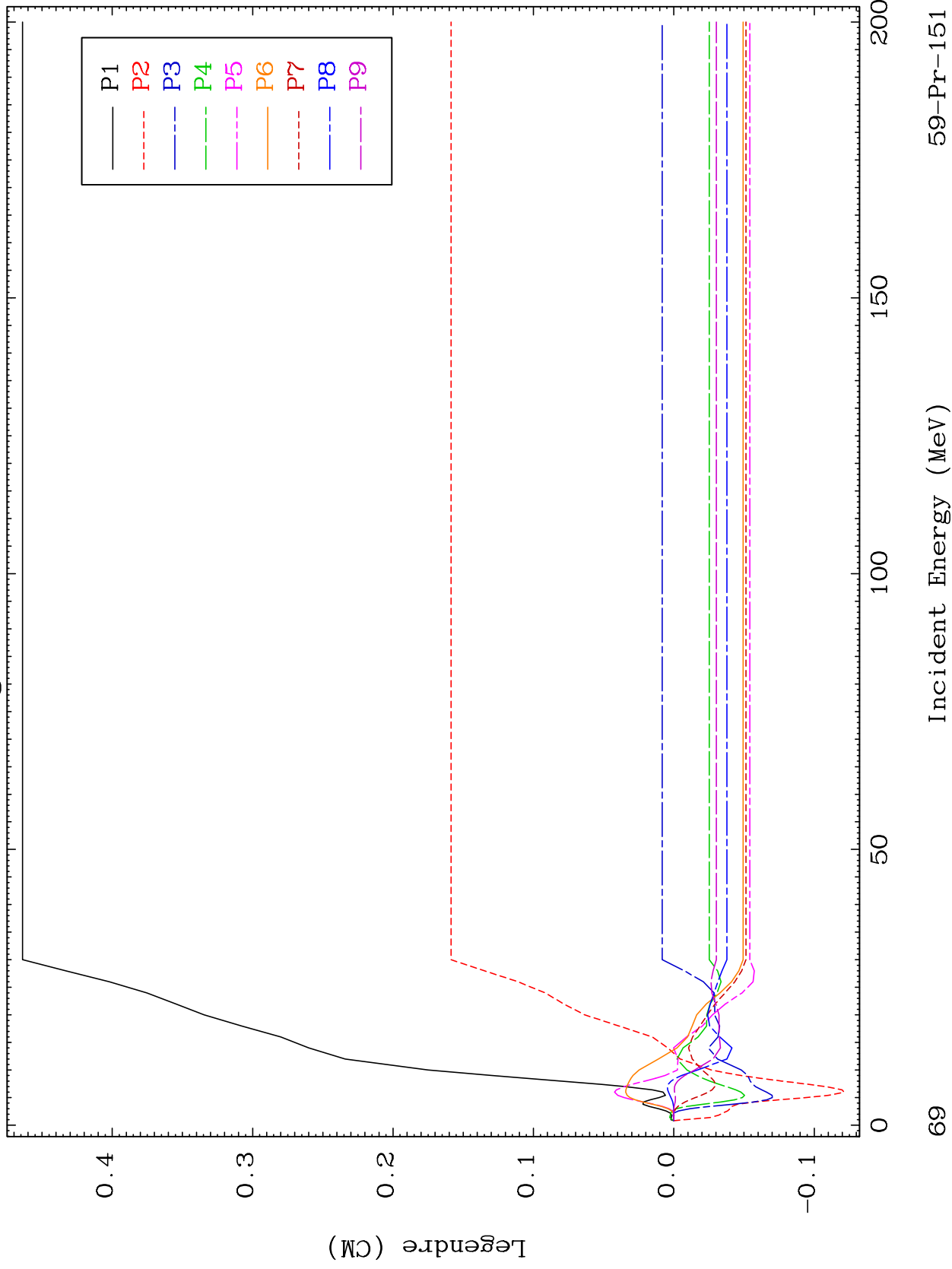
59-Pr-151



MAT 5955

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

59-Pr-151



59-Pr-151

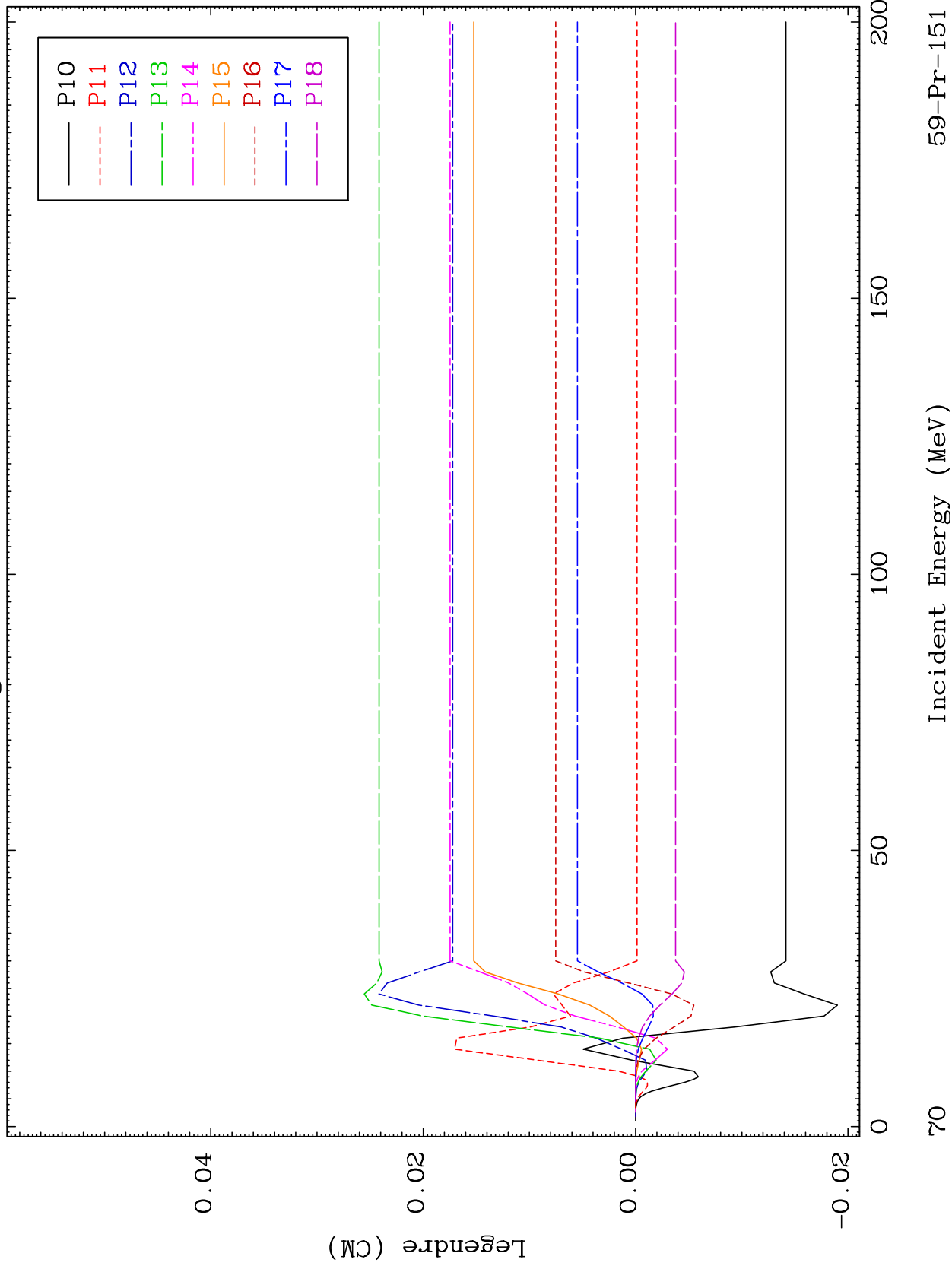
Incident Energy (MeV)

69

MAT 5955

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

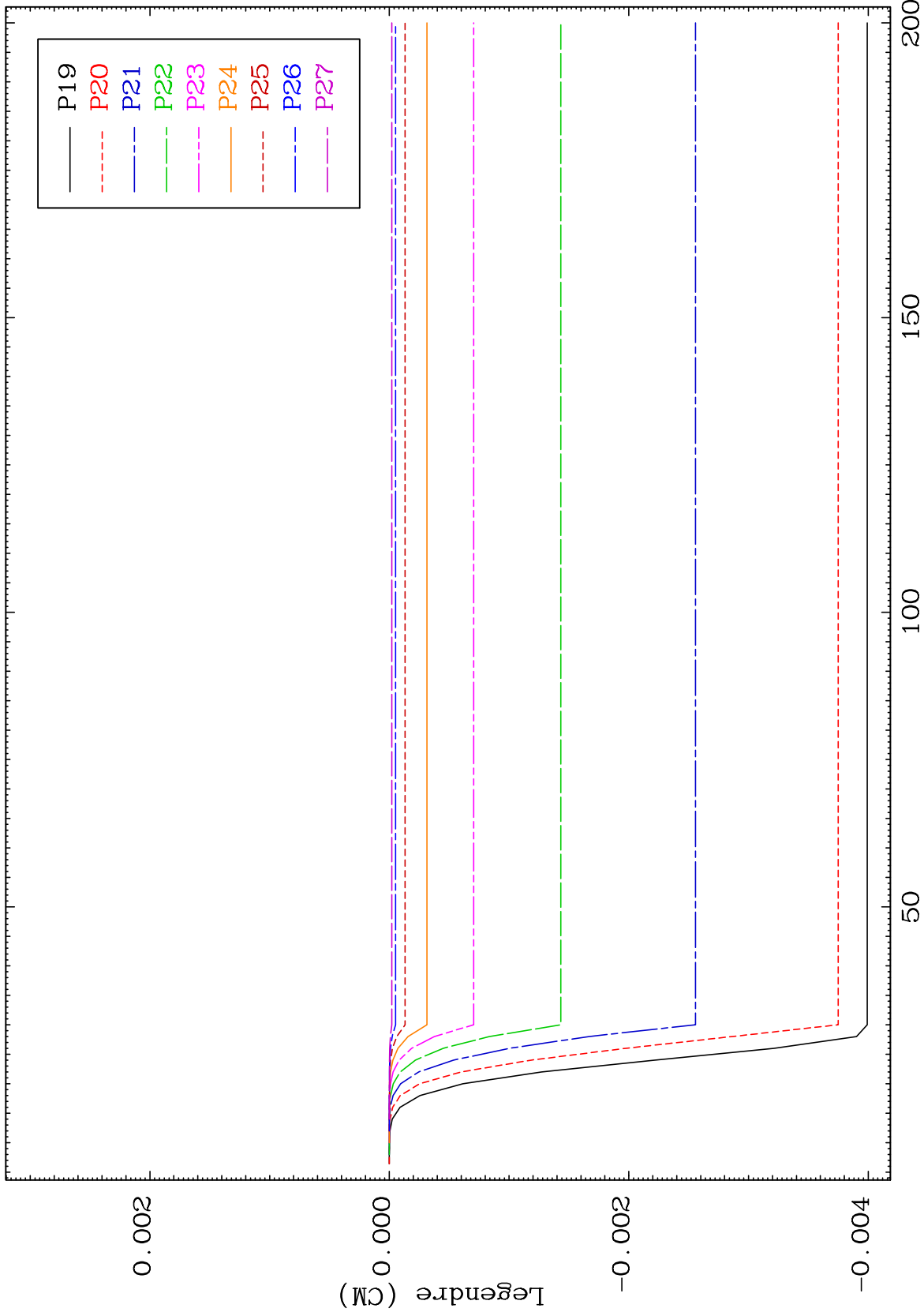
59-Pr-151

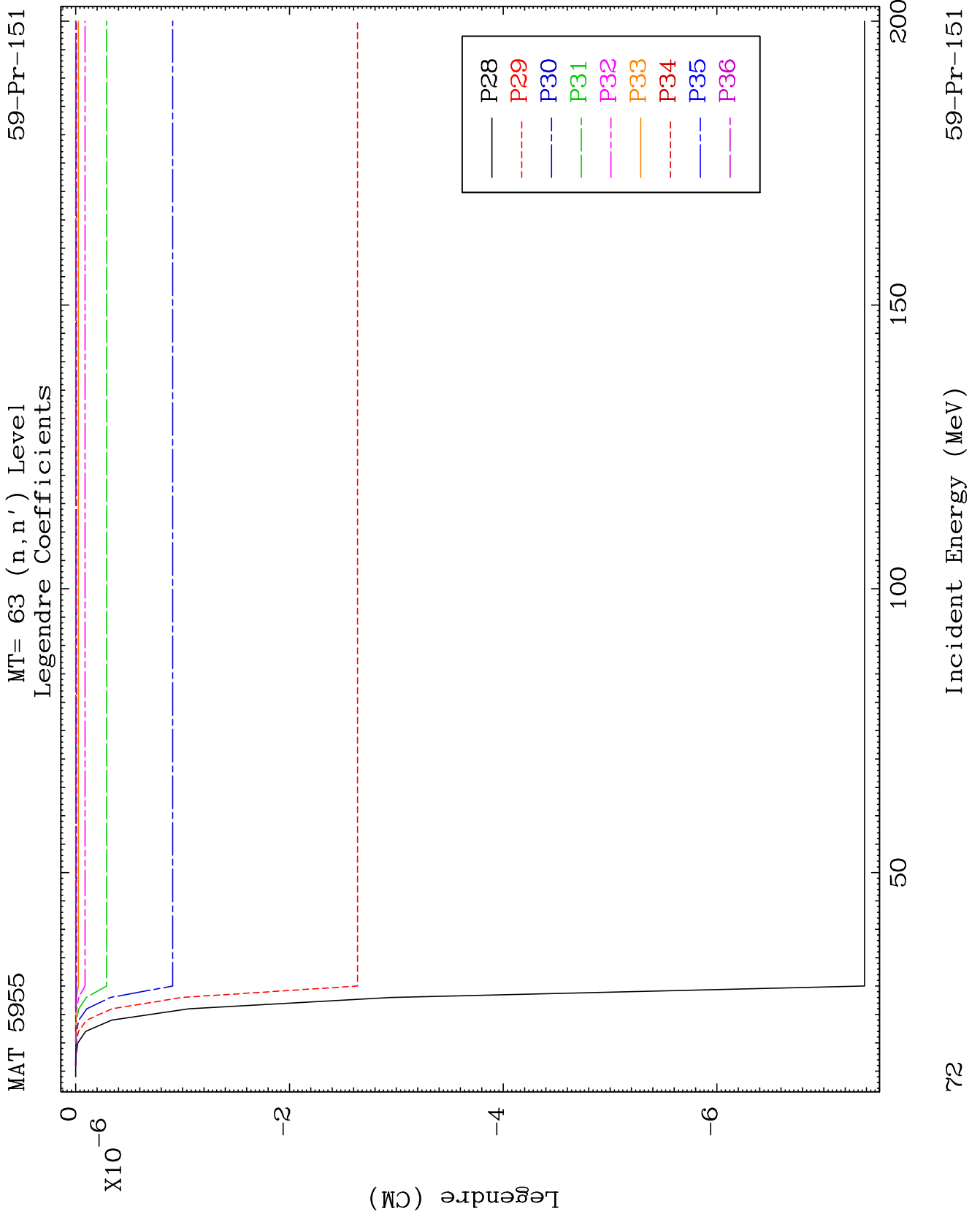


59-Pr-151

Incident Energy (MeV)

70

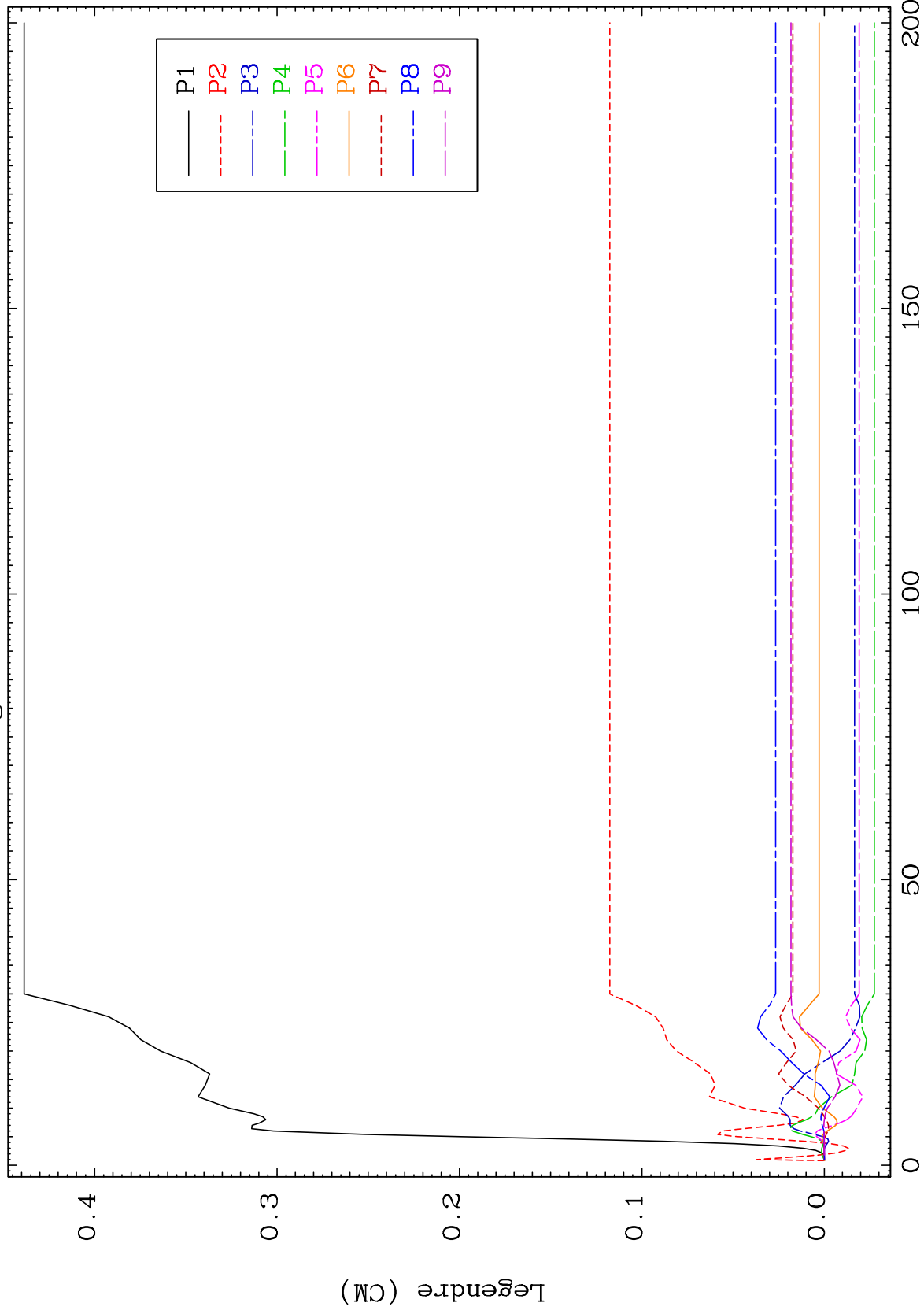




MAT 5955

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

59-Pr-151



59-Pr-151

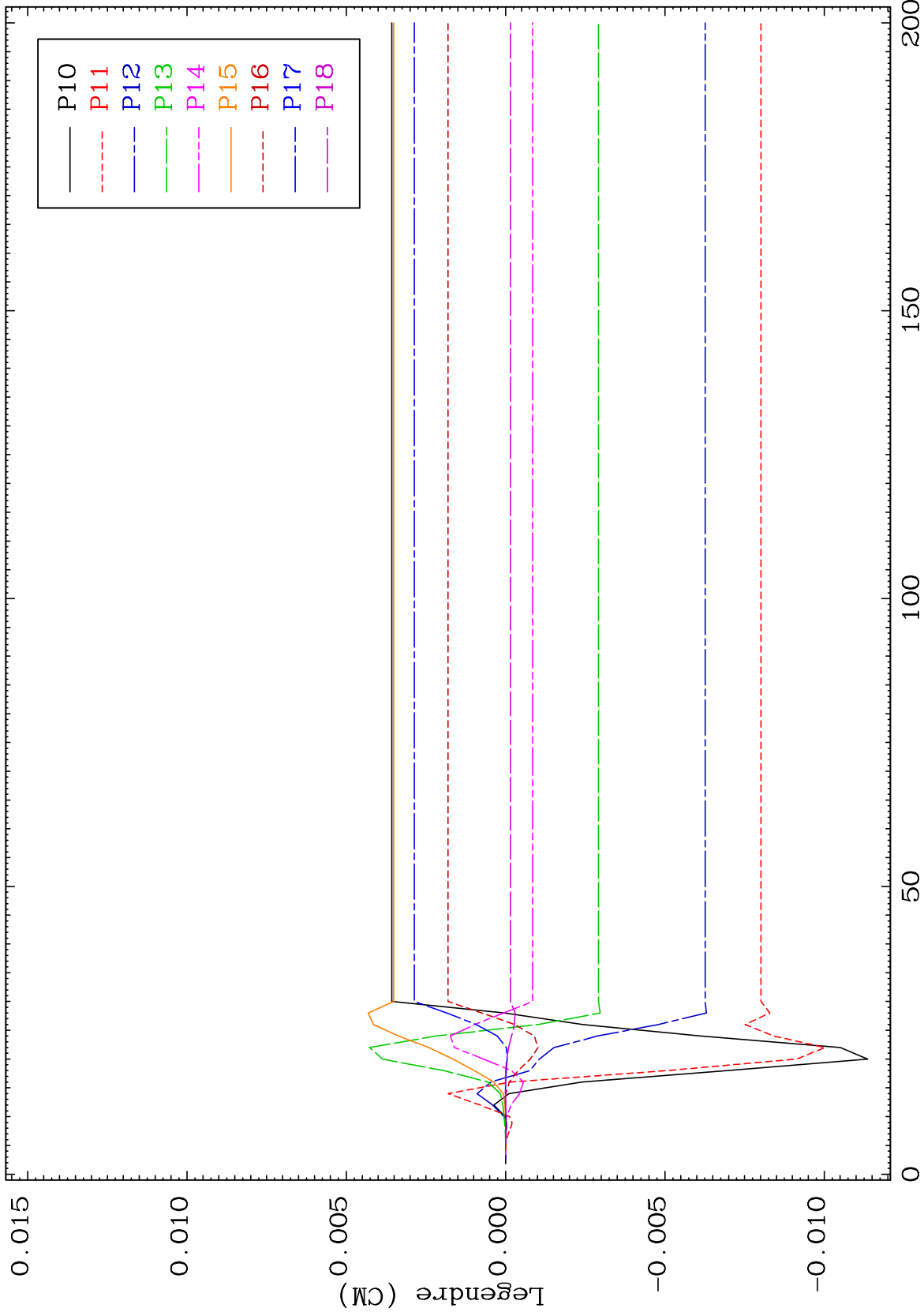
Incident Energy (MeV)

73

MAT 5955

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

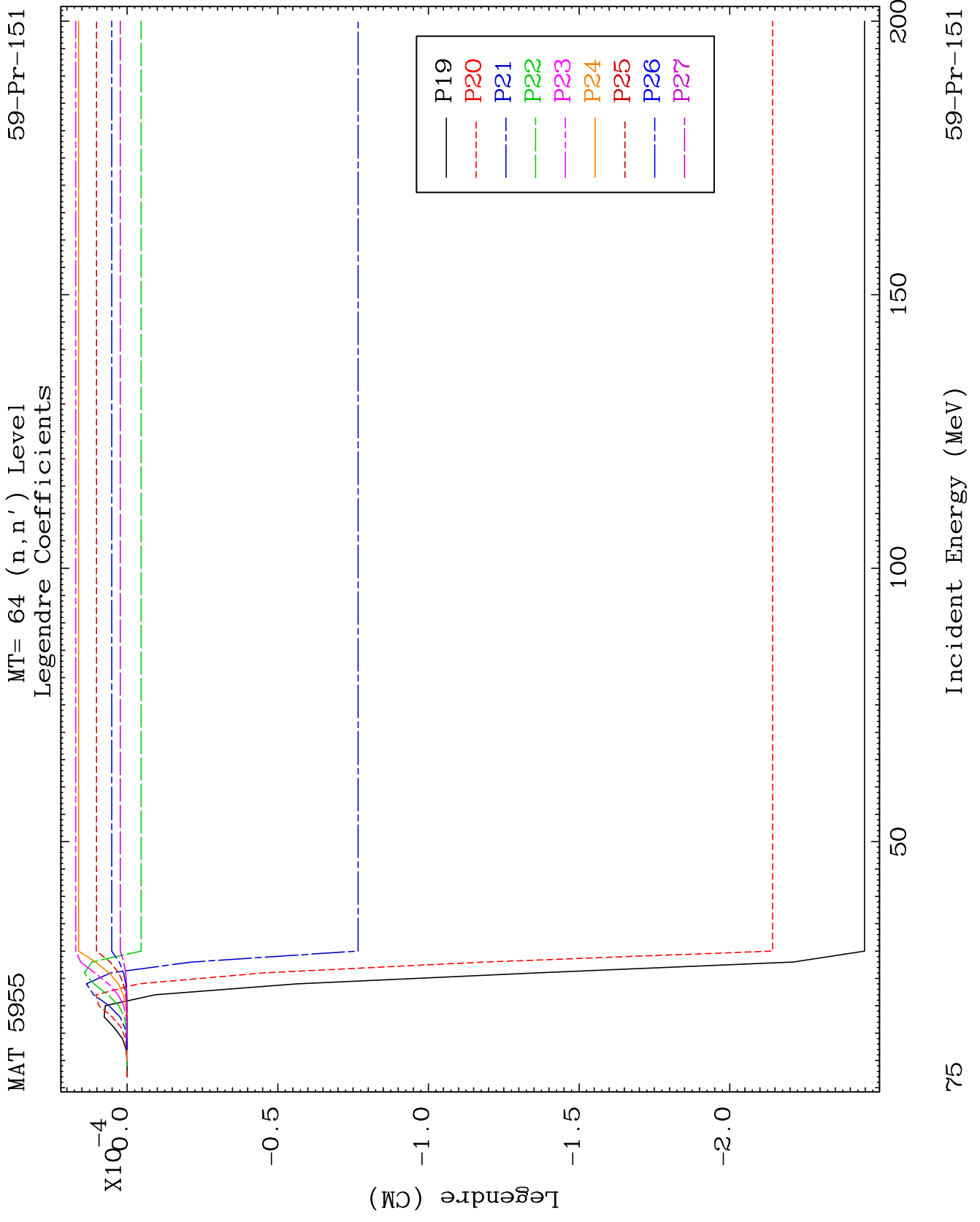
59-Pr-151



74

Incident Energy (MeV)

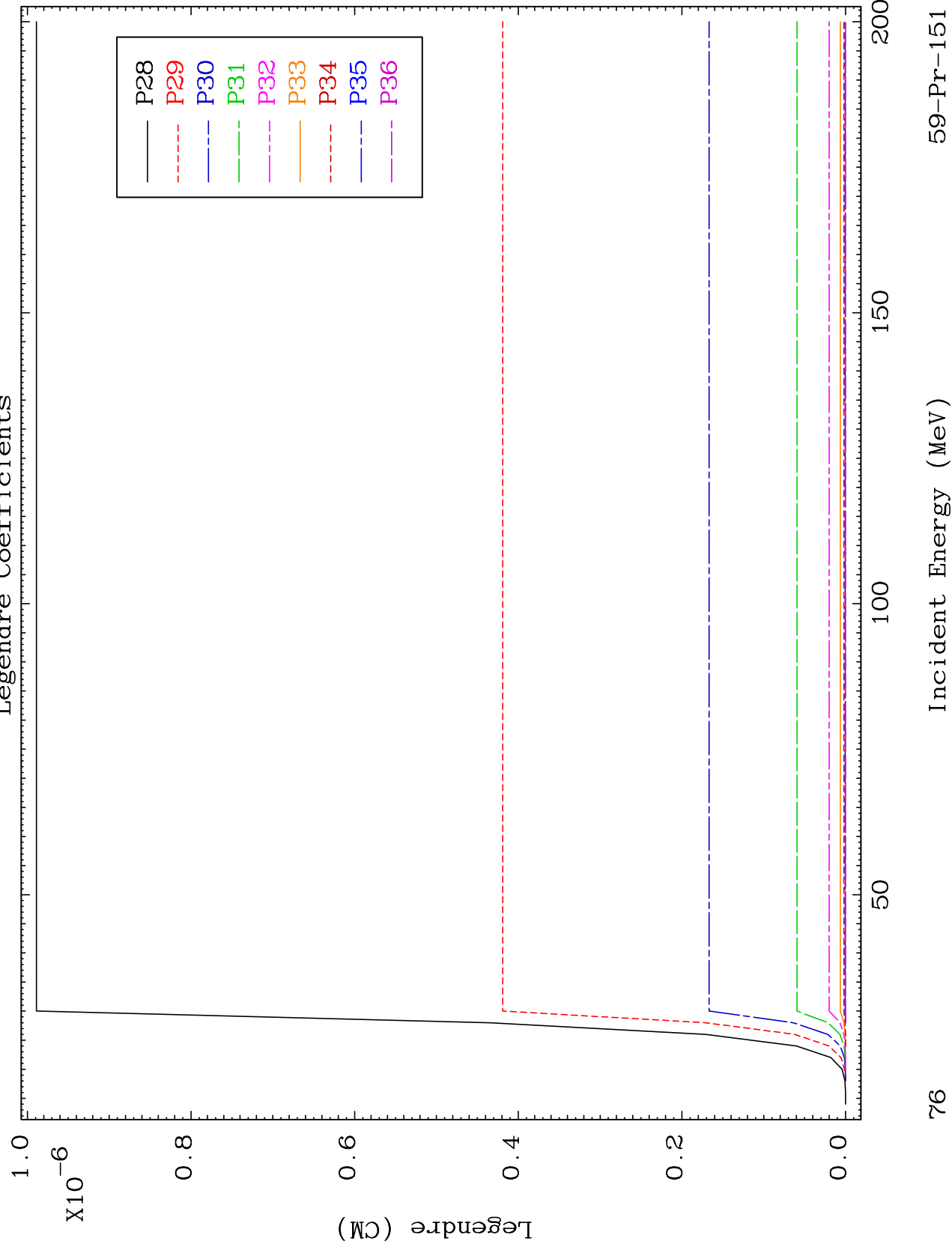
59-Pr-151



MAT 5955

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

59-Pr-151



76

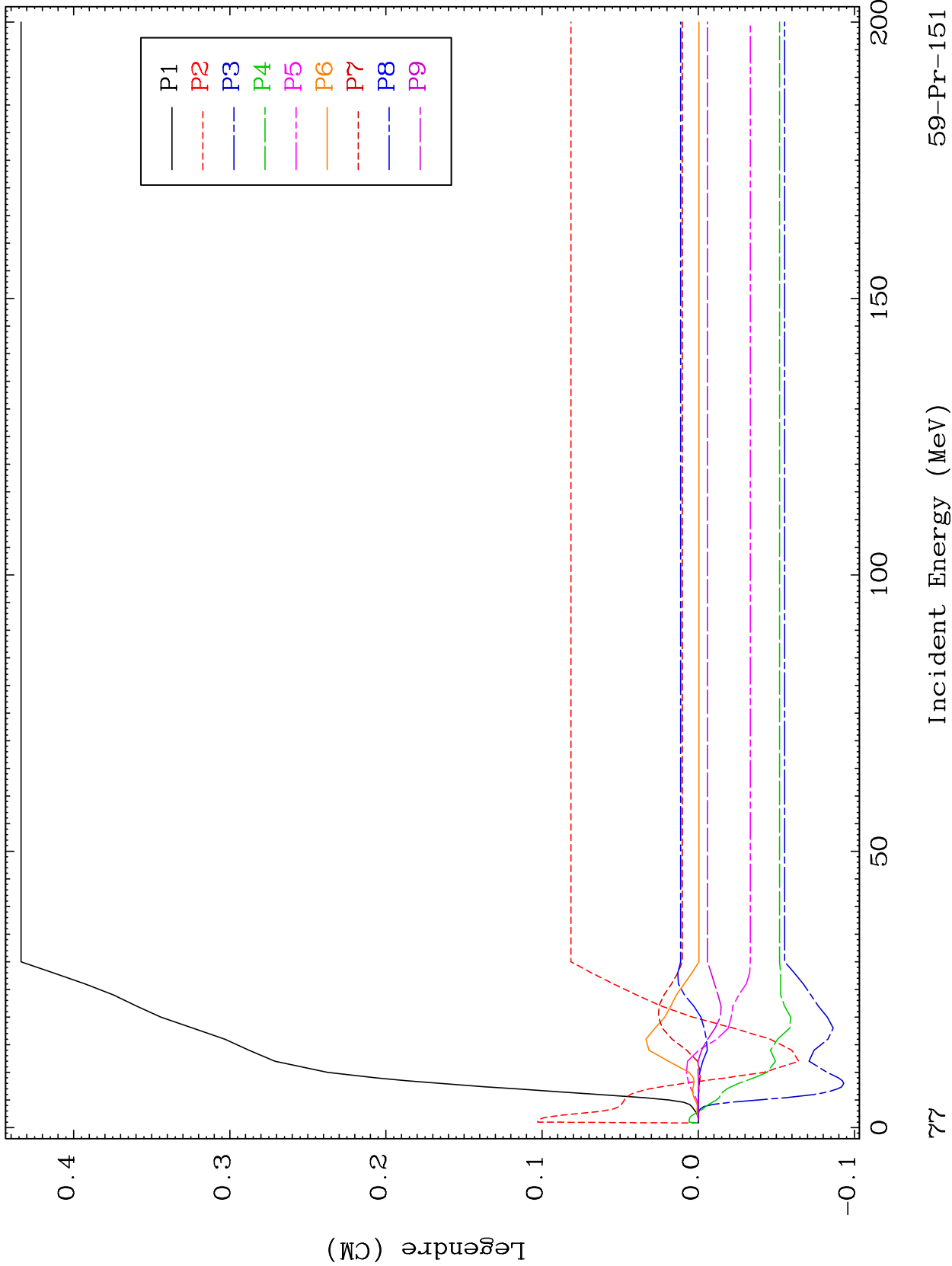
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

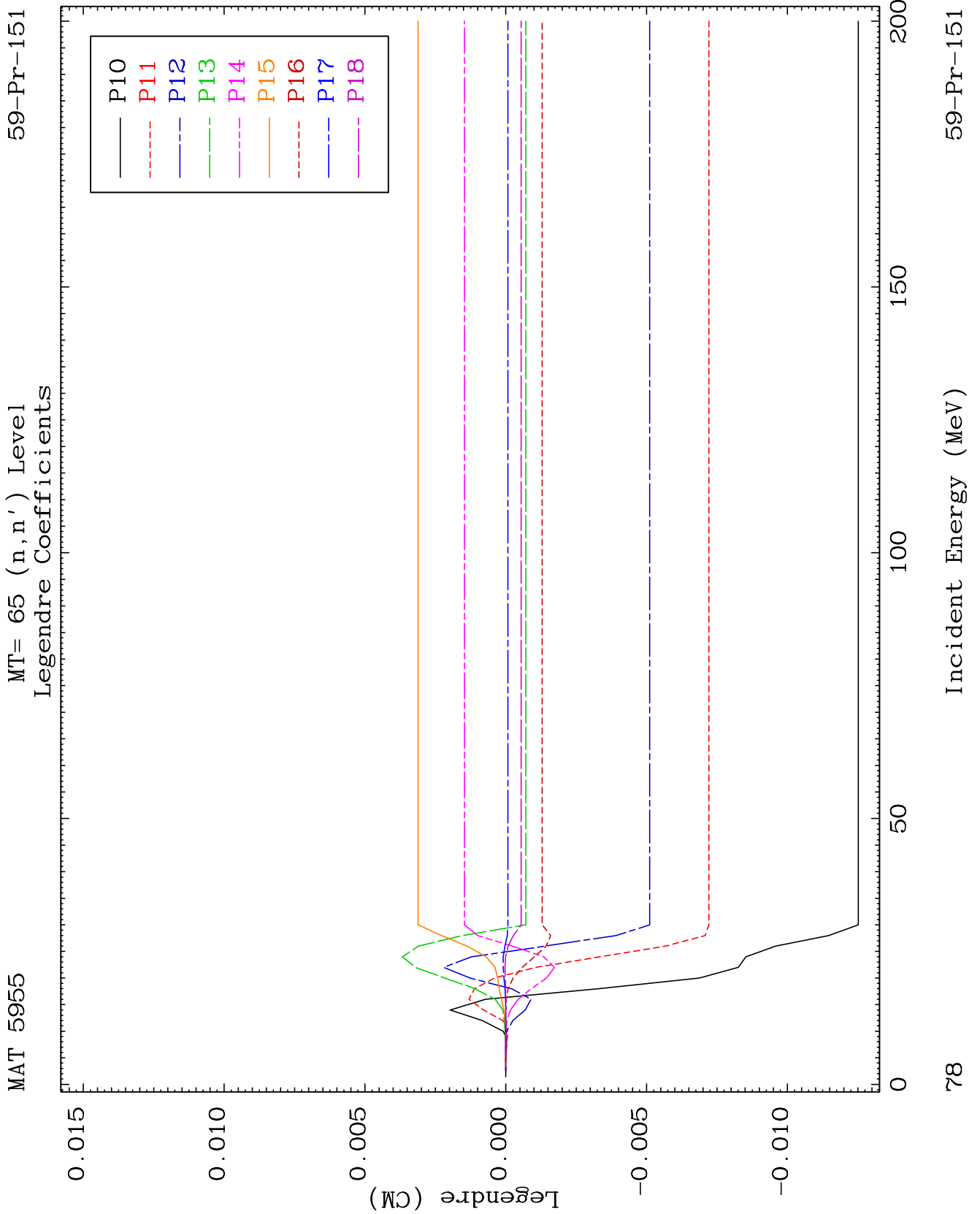
59-Pr-151



59-Pr-151

Incident Energy (MeV)

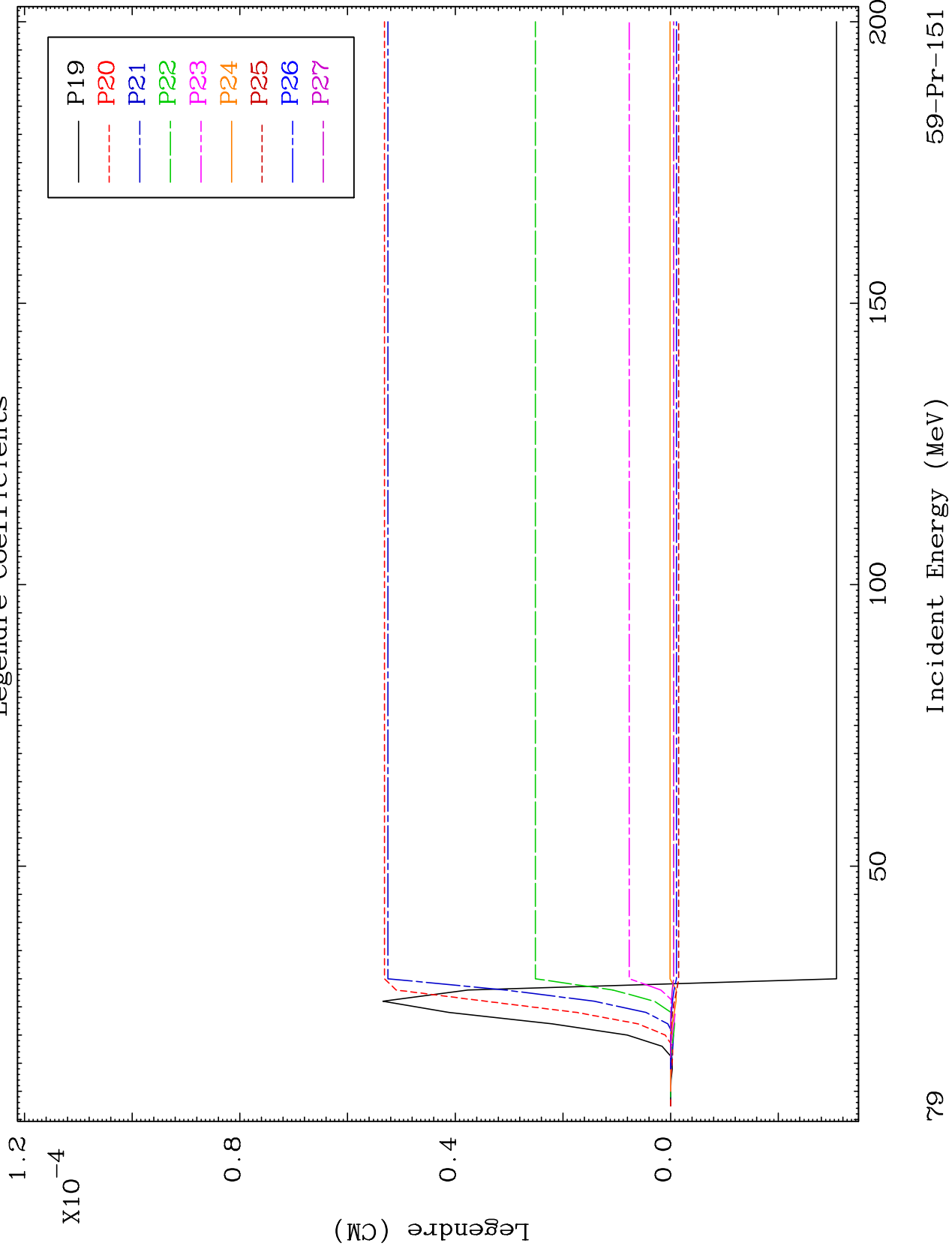
77



MAT 5955

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

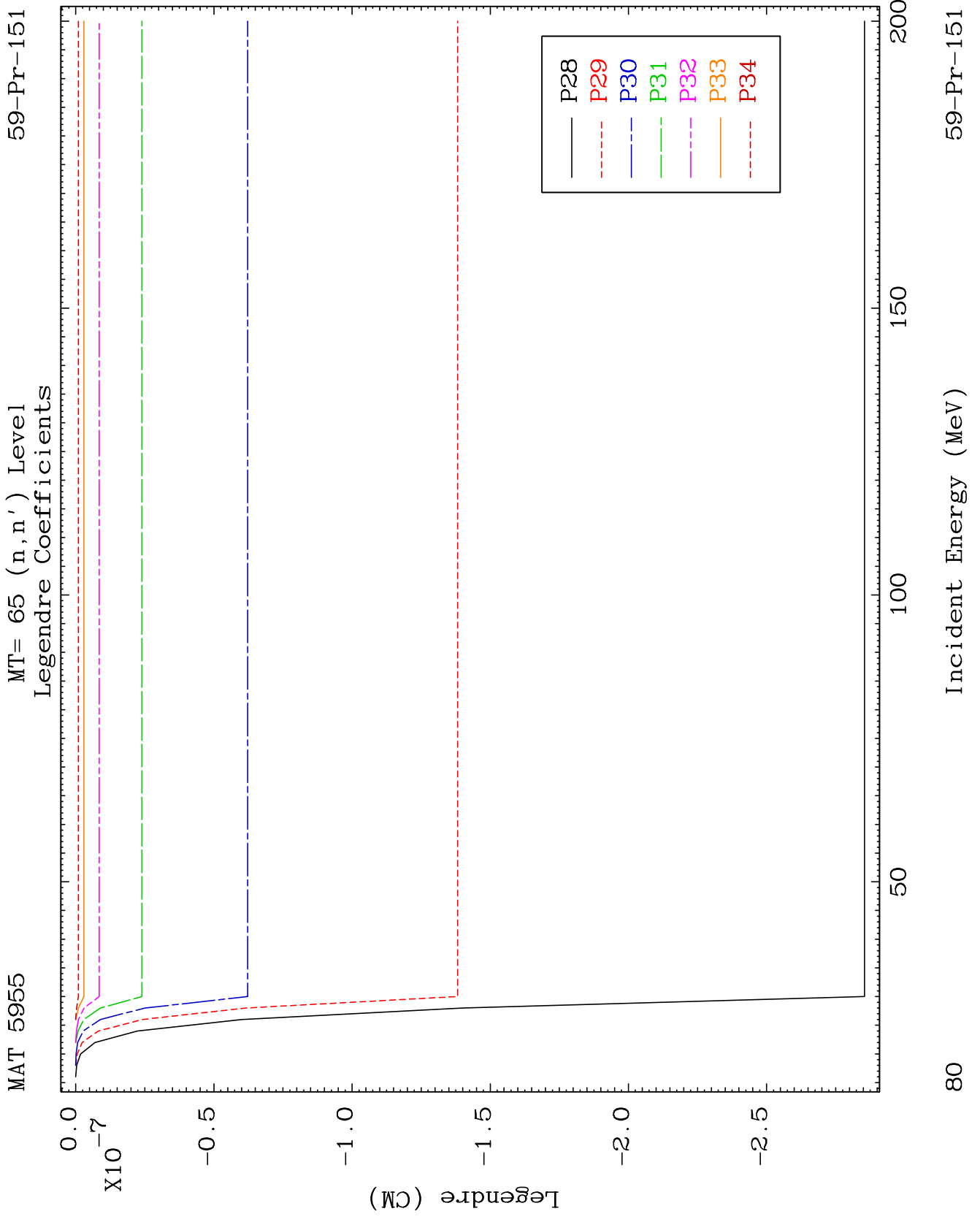
59-Pr-151



79

Incident Energy (MeV)

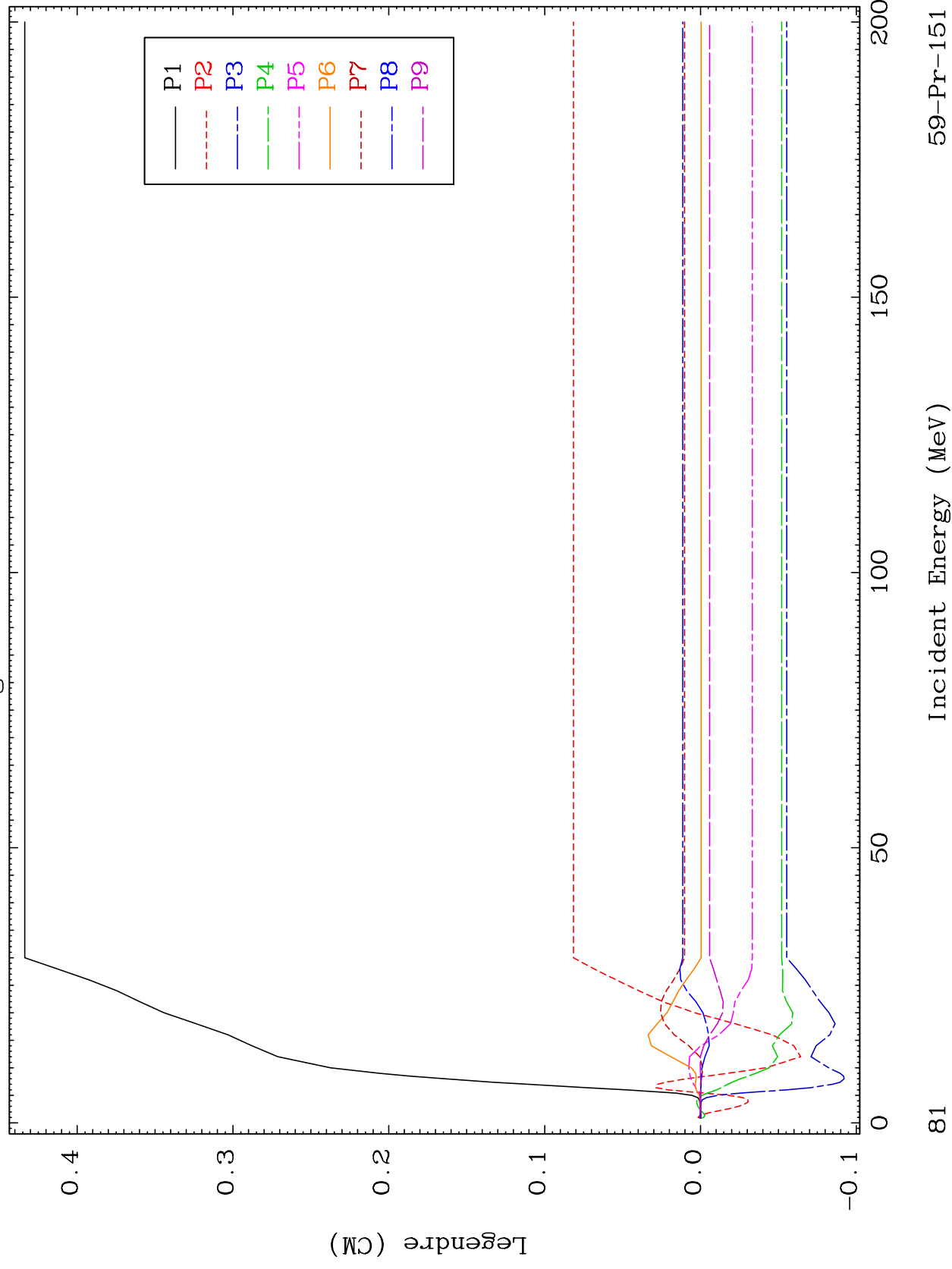
59-Pr-151



MAT 5955

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

59-Pr-151



81

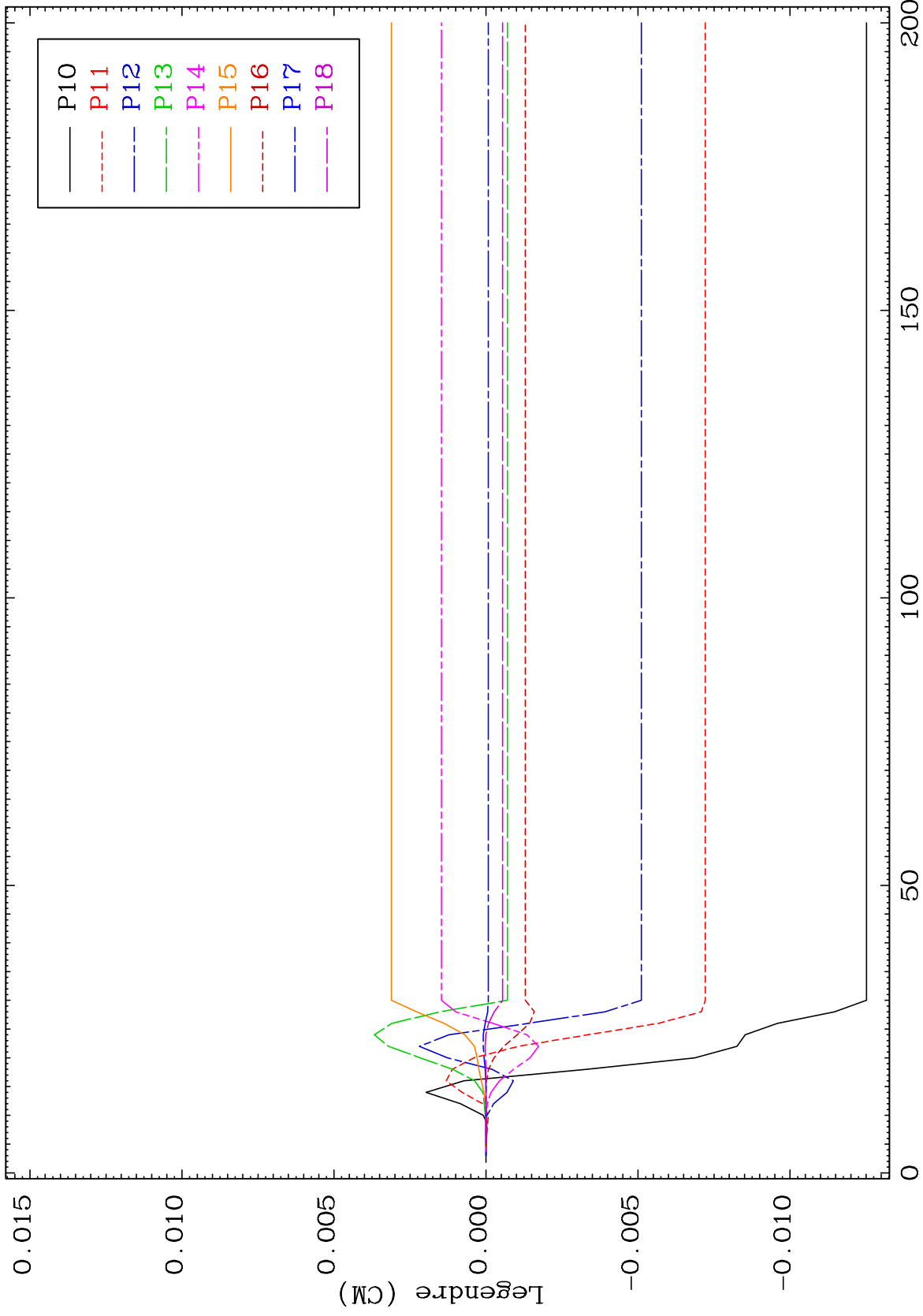
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

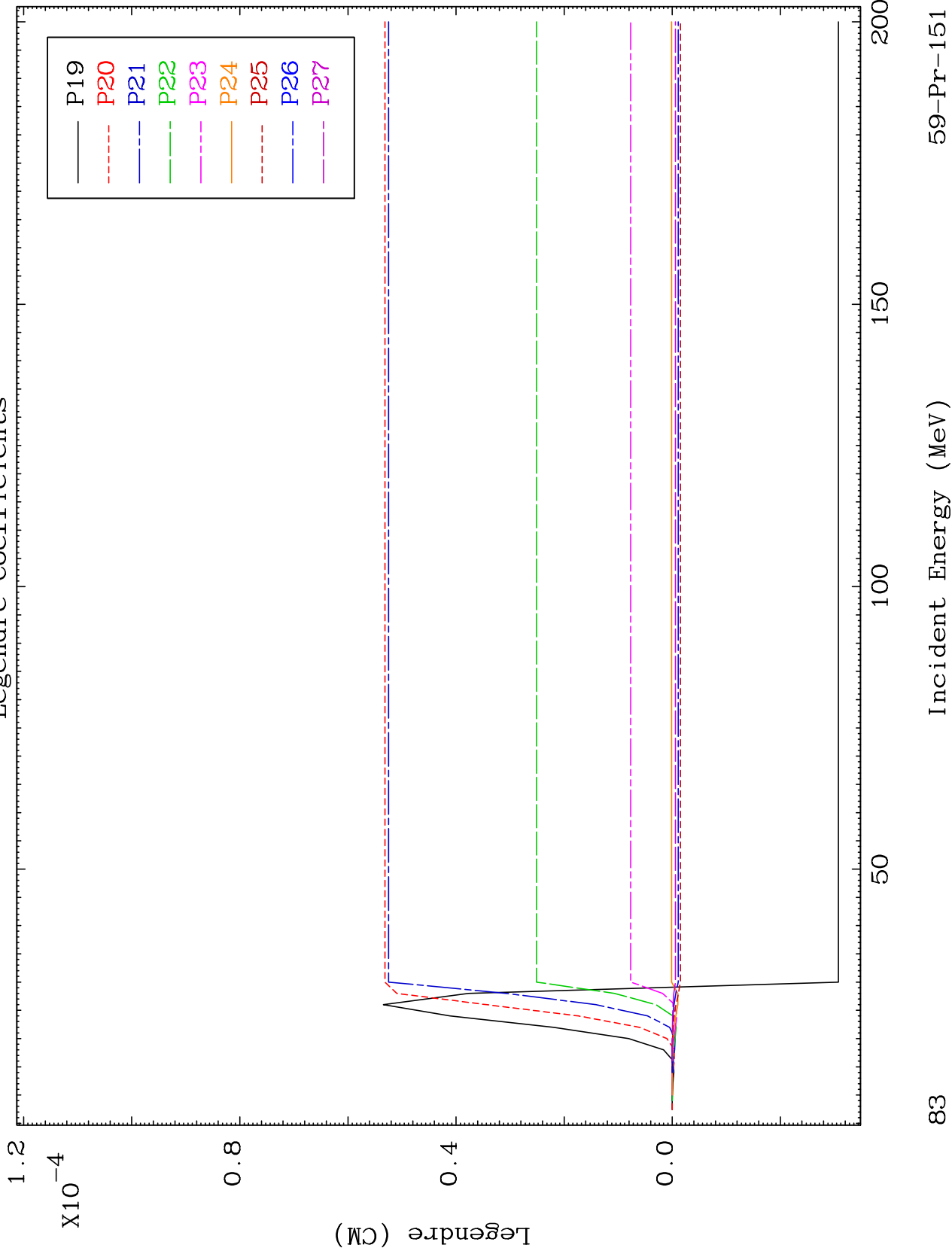
59-Pr-151



82

Incident Energy (MeV)

59-Pr-151

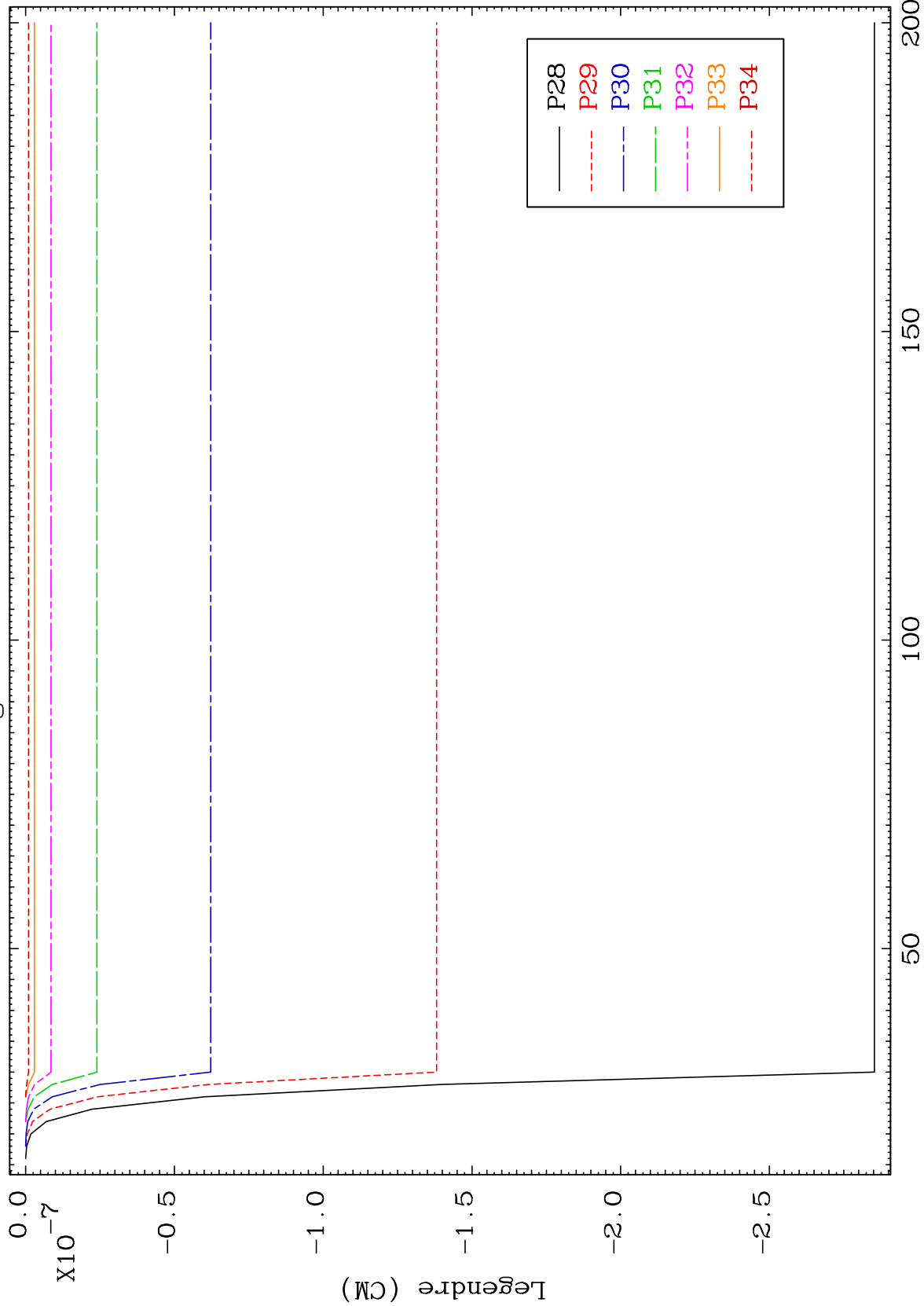


MAT 5955

MT= 66 (n,n') Level

59-Pr-151

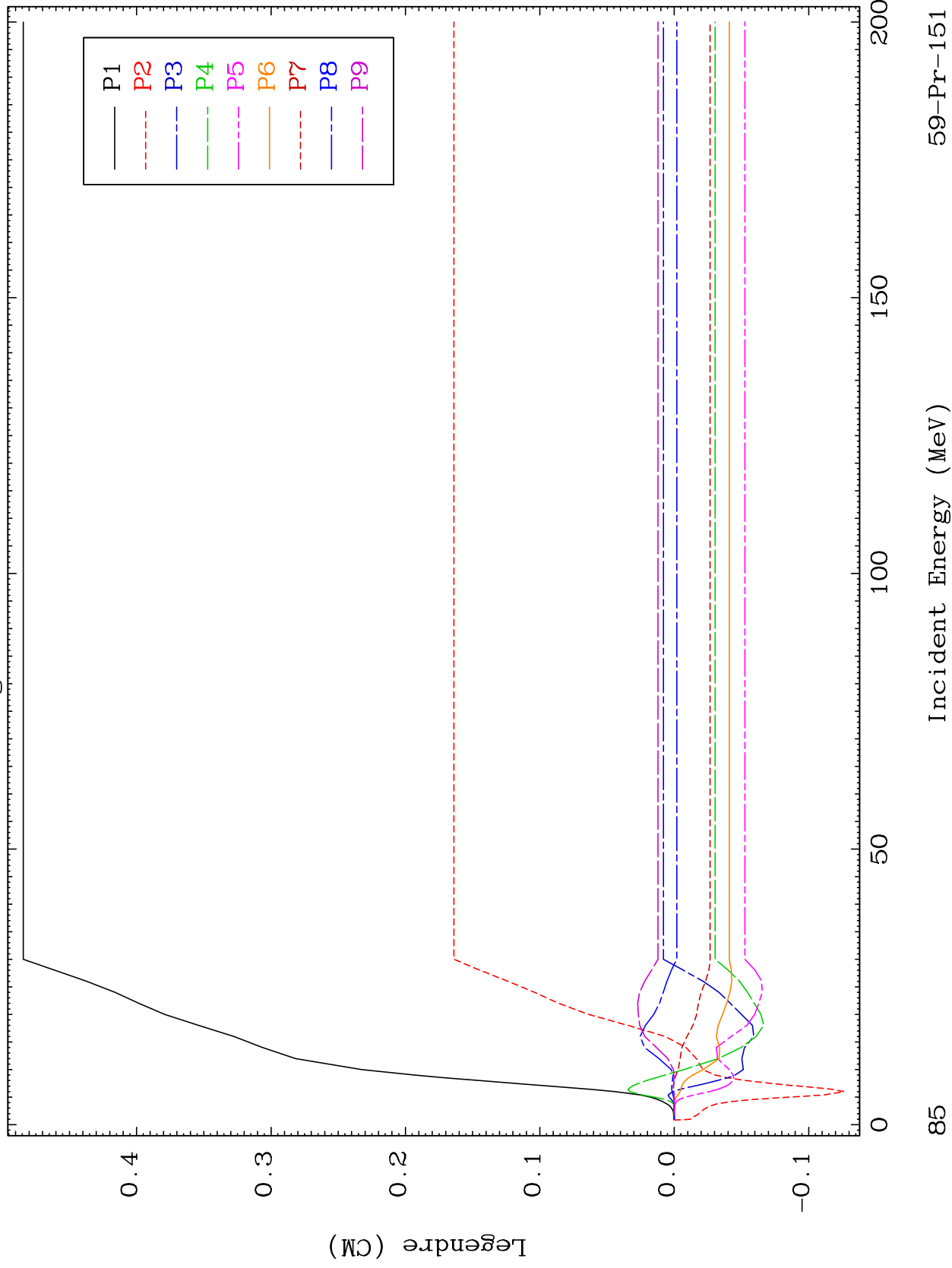
Legendre Coefficients



MAT 5955

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

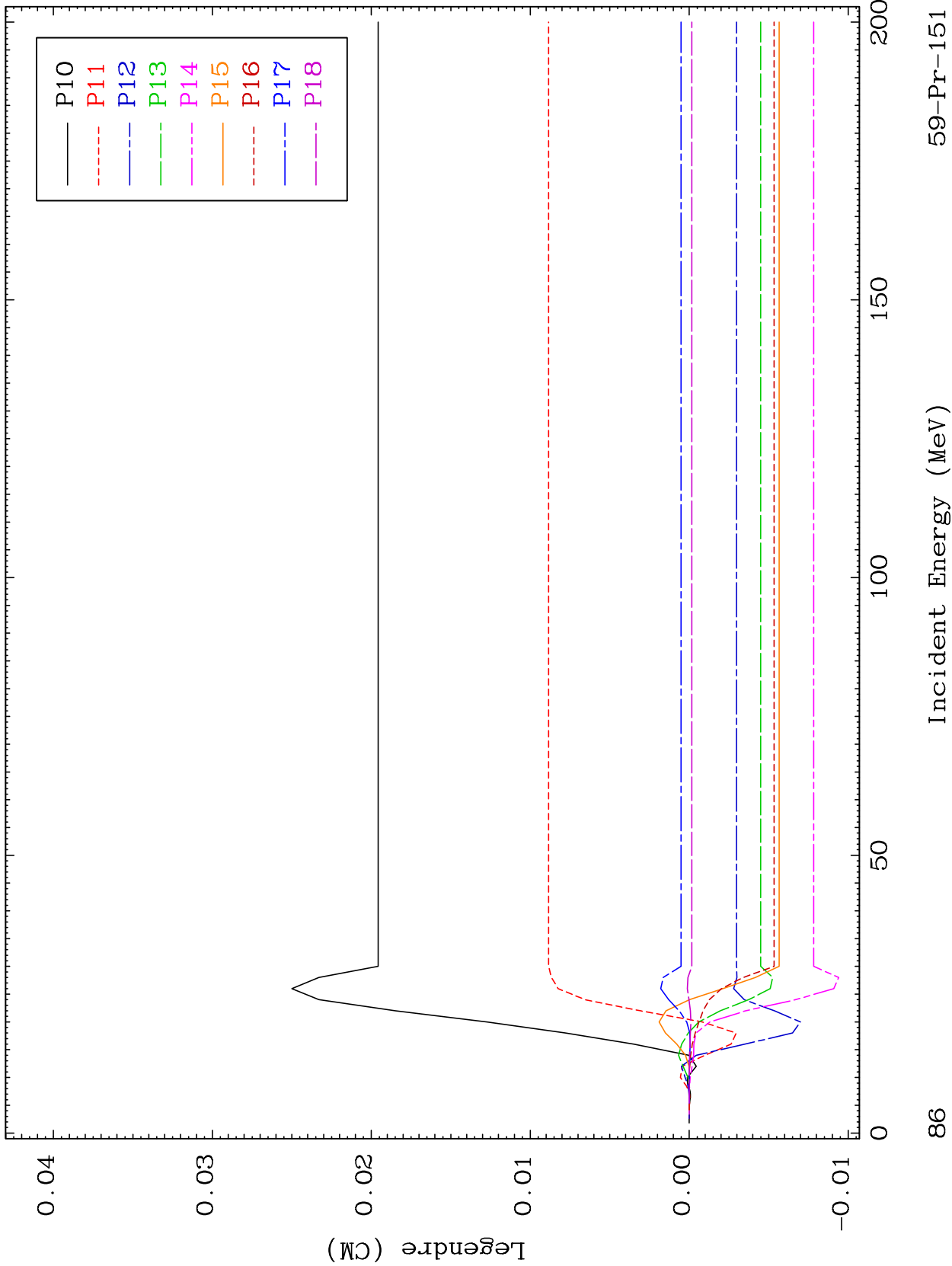
59-Pr-151



MAT 5955

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

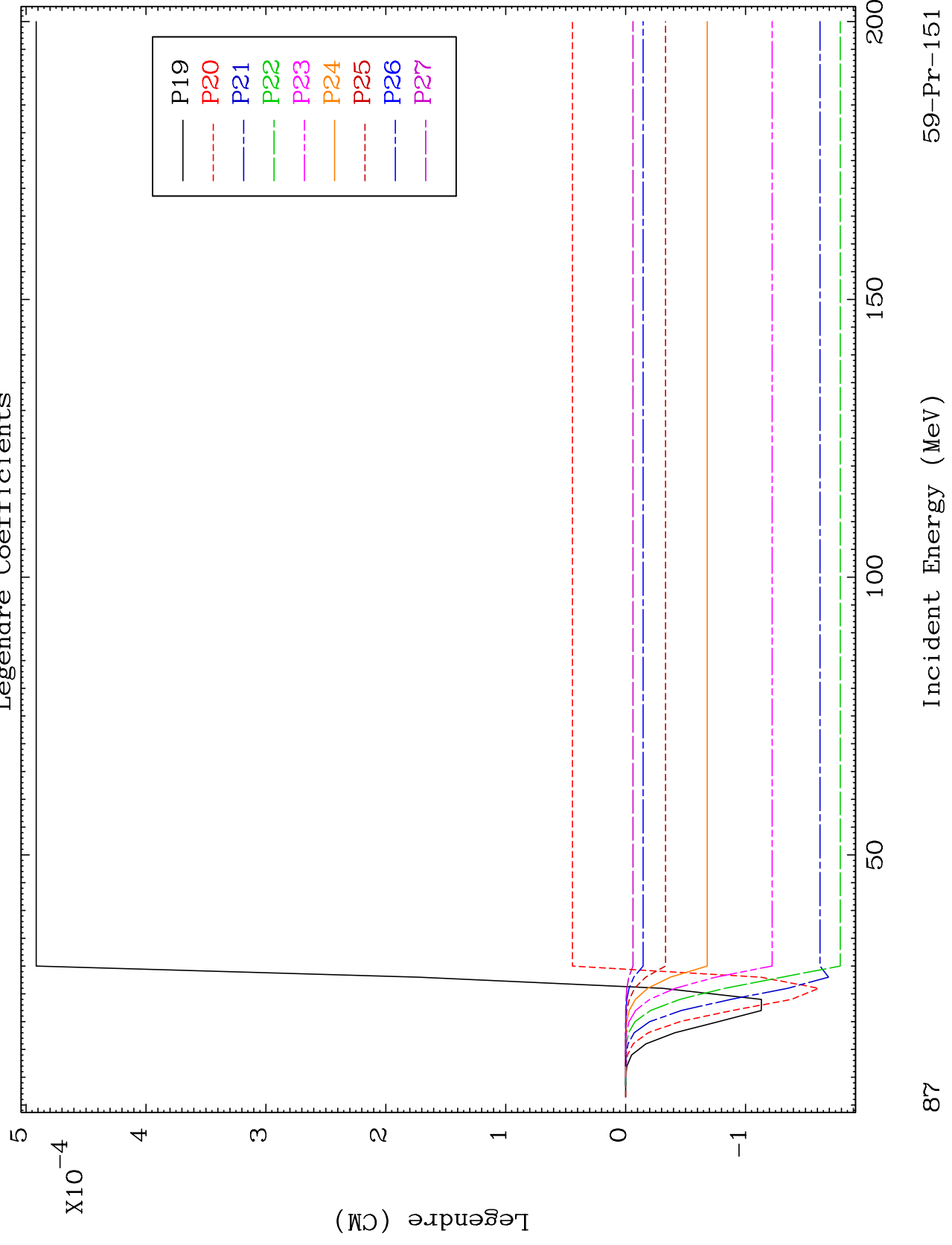
59-Pr-151



86

Incident Energy (MeV)

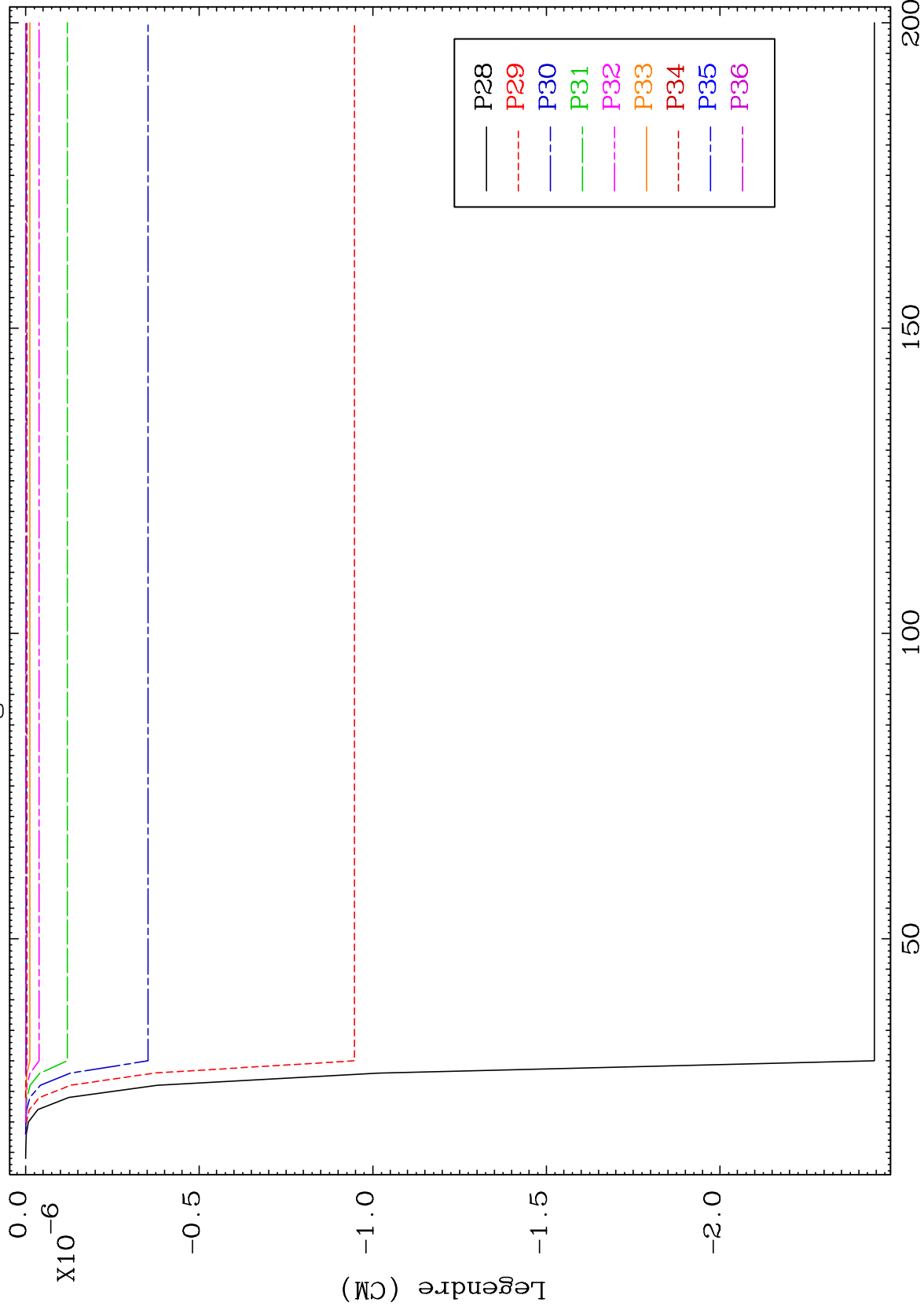
59-Pr-151



MAT 5955

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

59-Pr-151



88

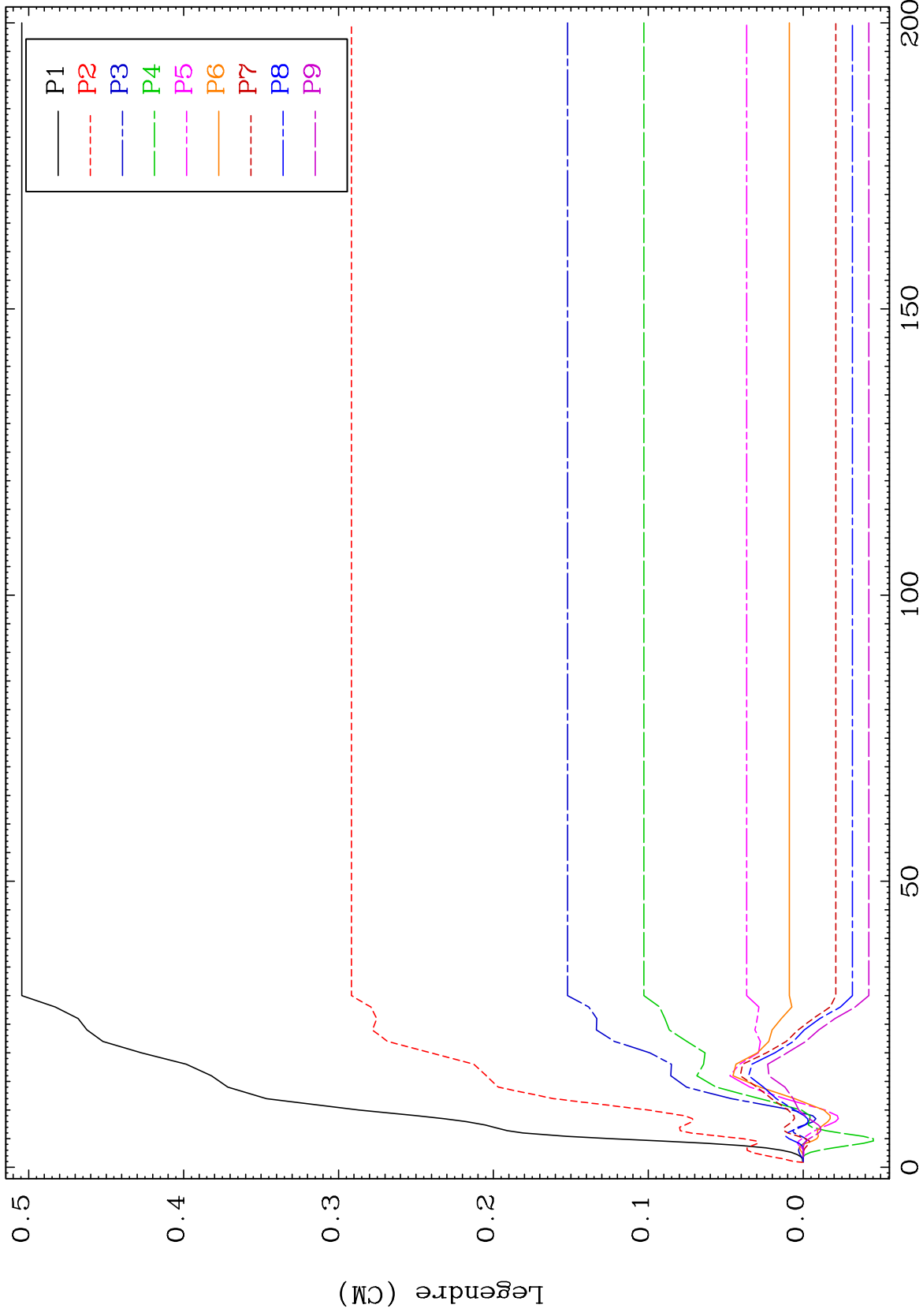
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



89

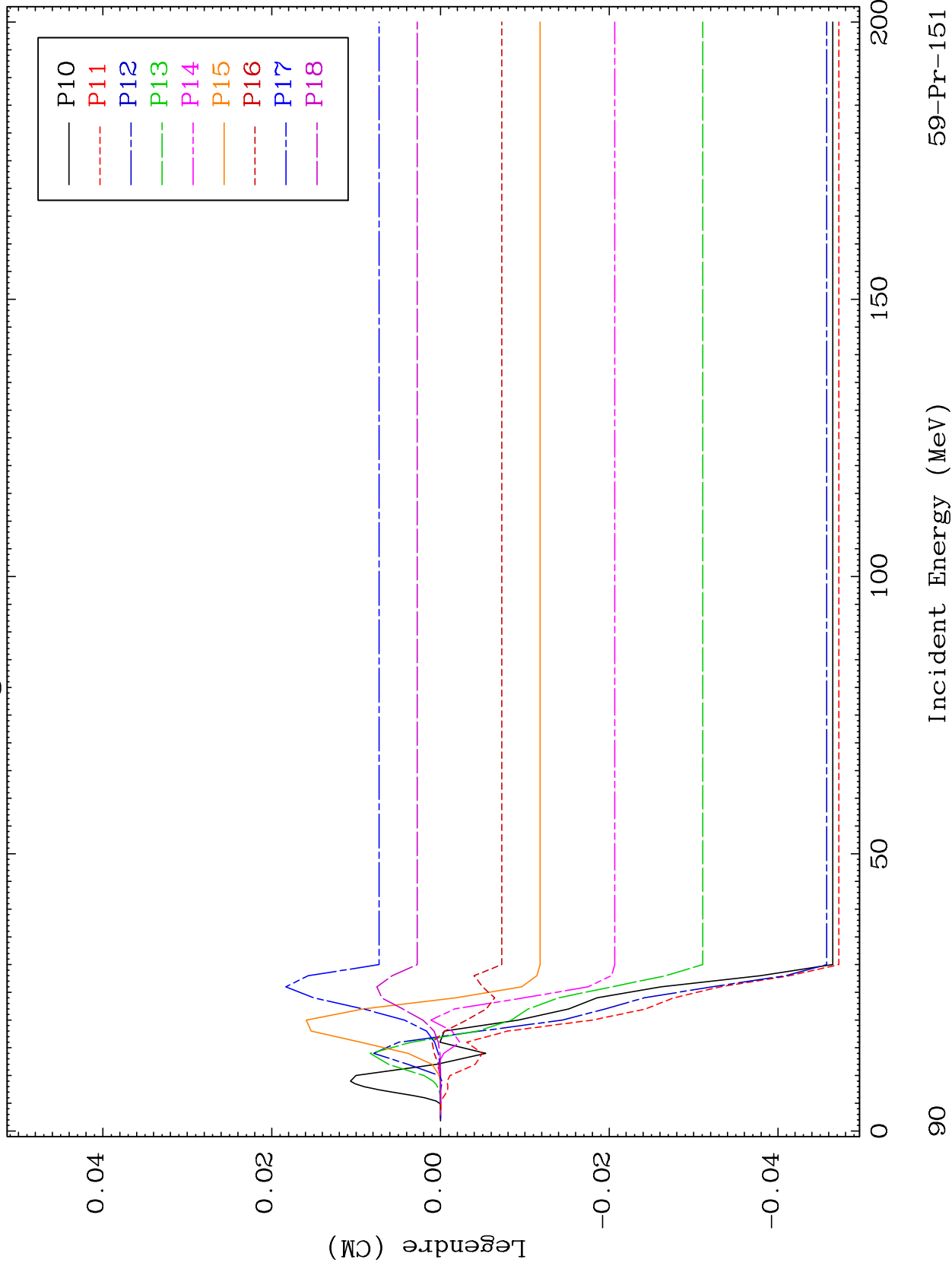
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



59-Pr-151

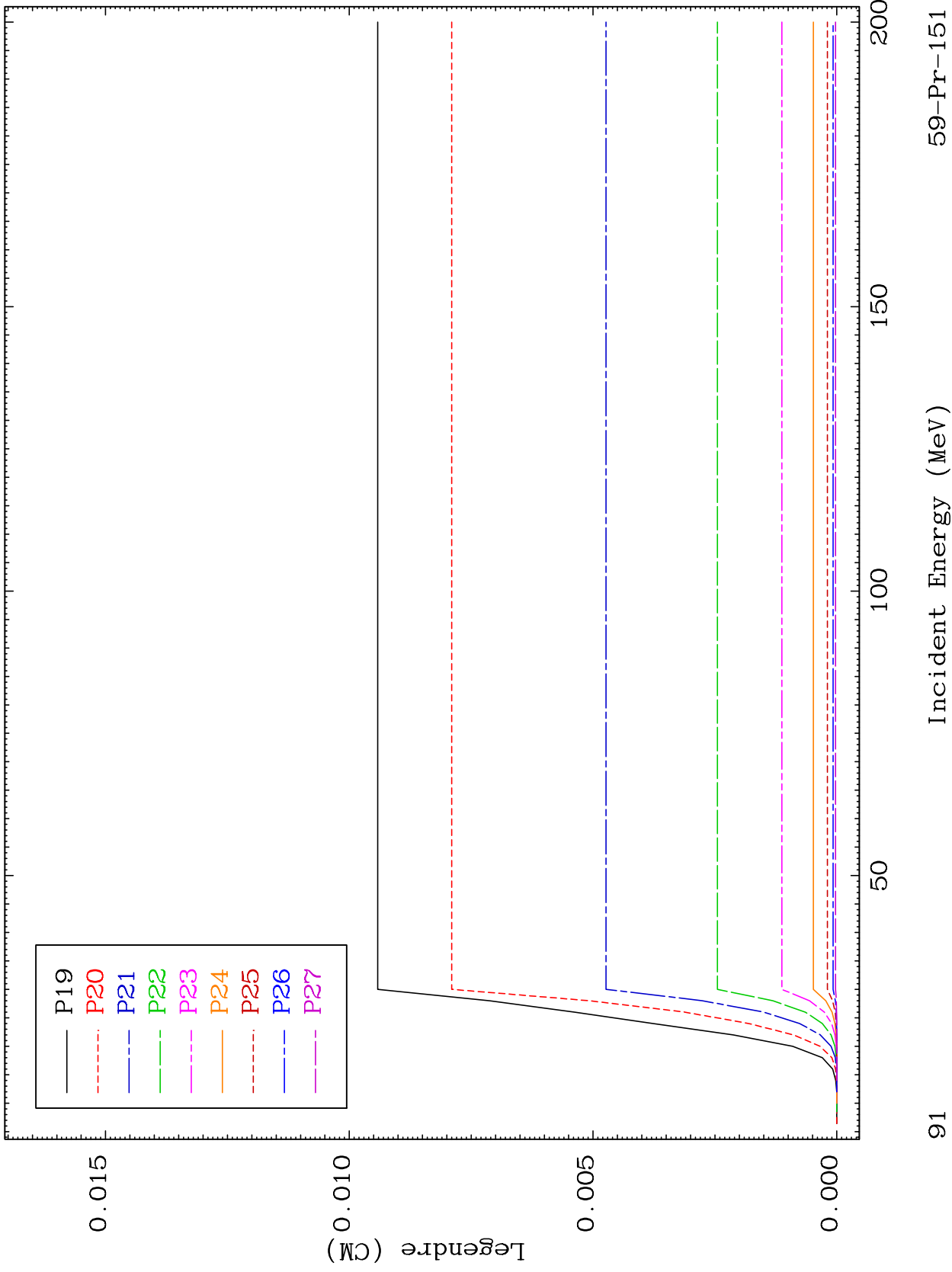
Incident Energy (MeV)

90

MAT 5955

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

59-Pr-151



91

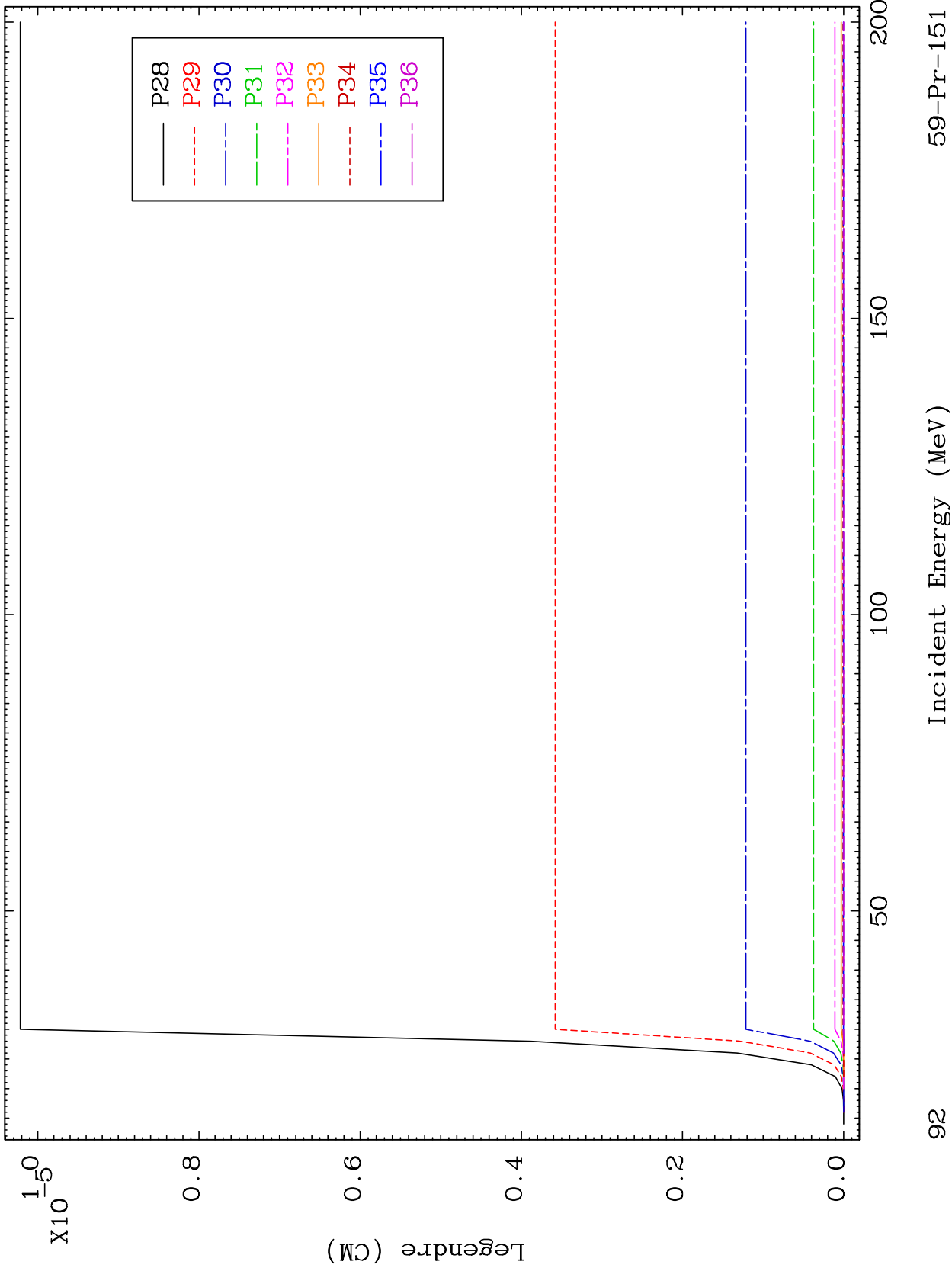
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

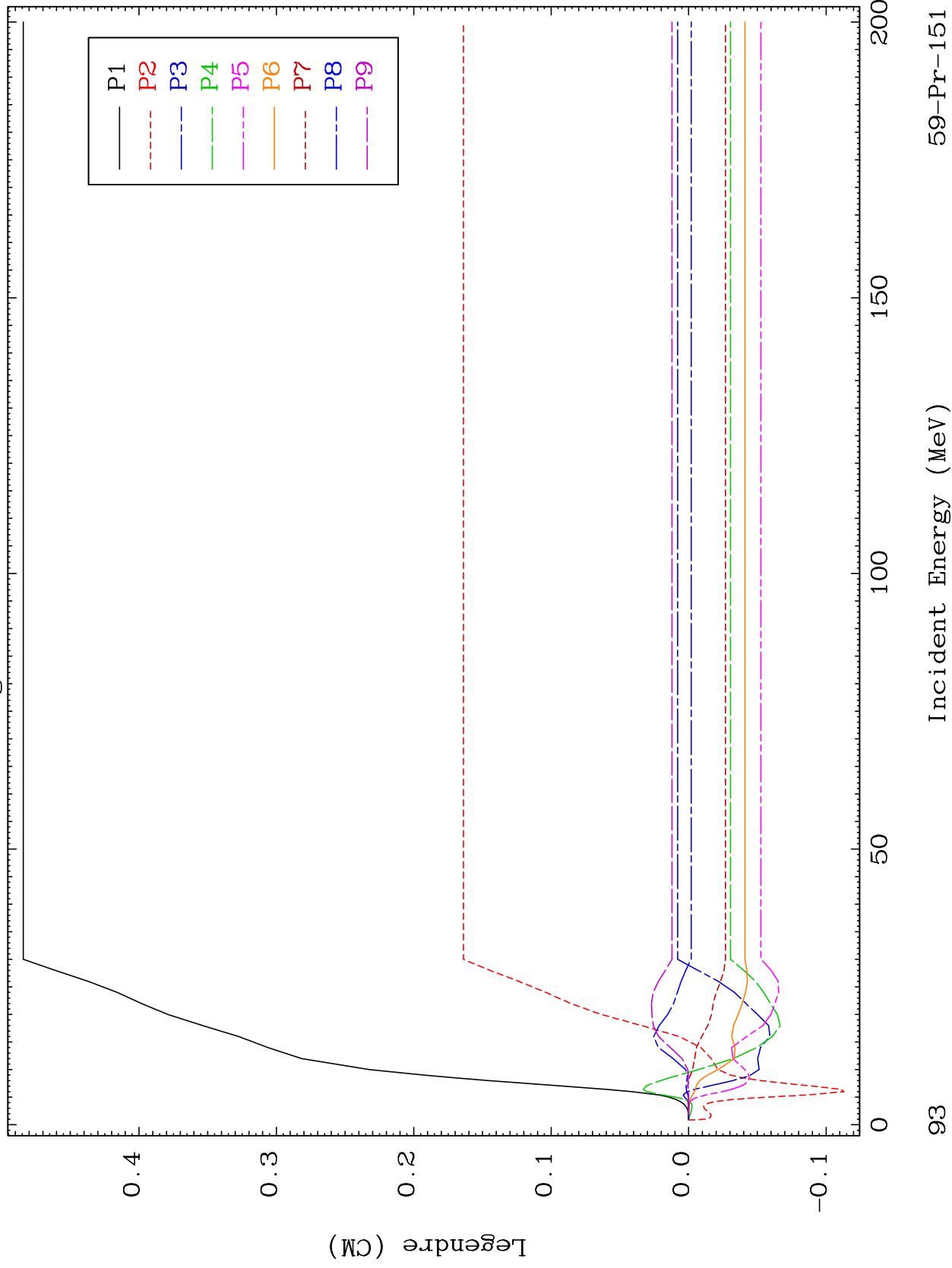
59-Pr-151



MAT 5955

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

59-Pr-151



59-Pr-151

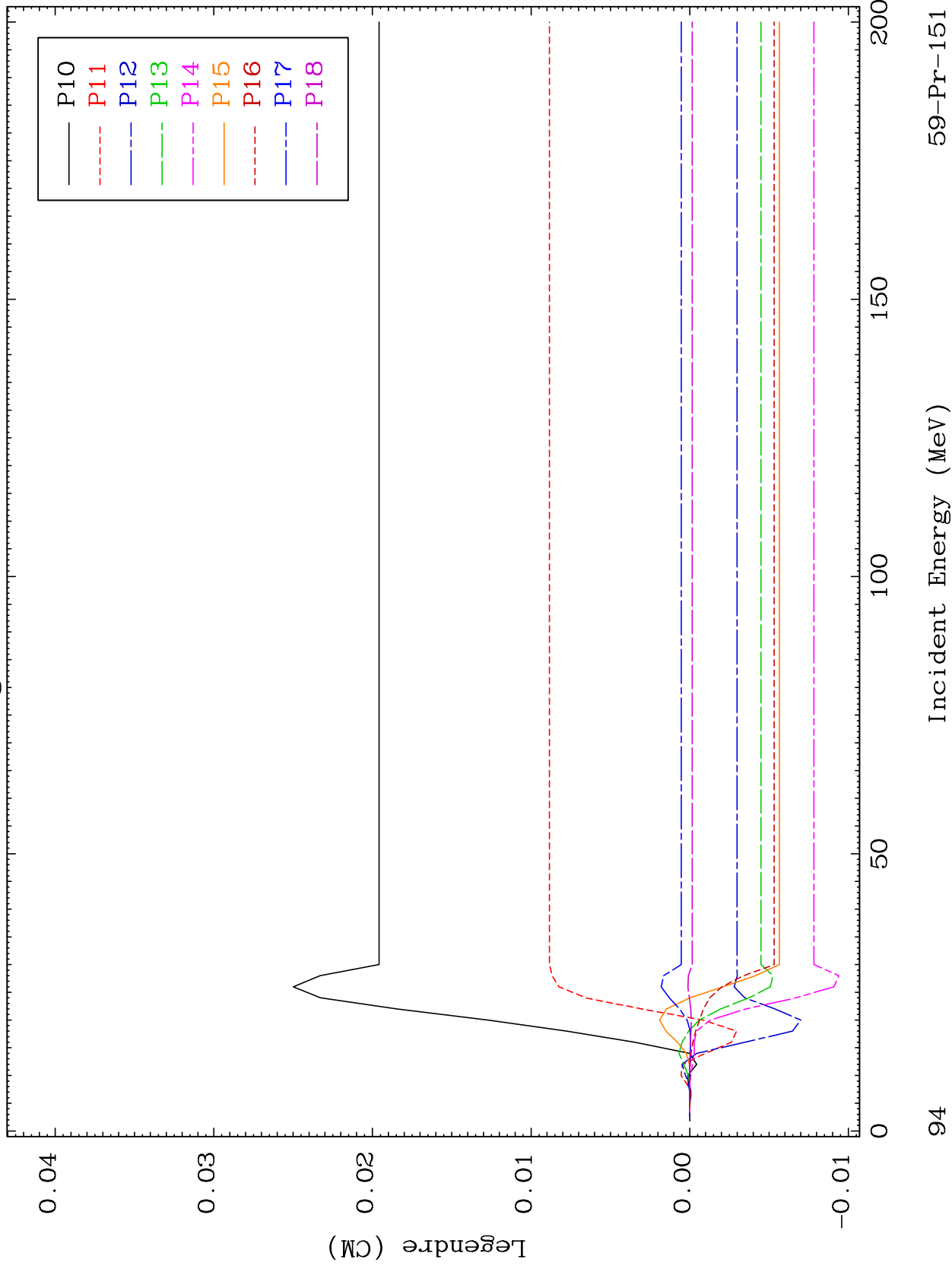
Incident Energy (MeV)

93

MAT 5955

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

59-Pr-151



94

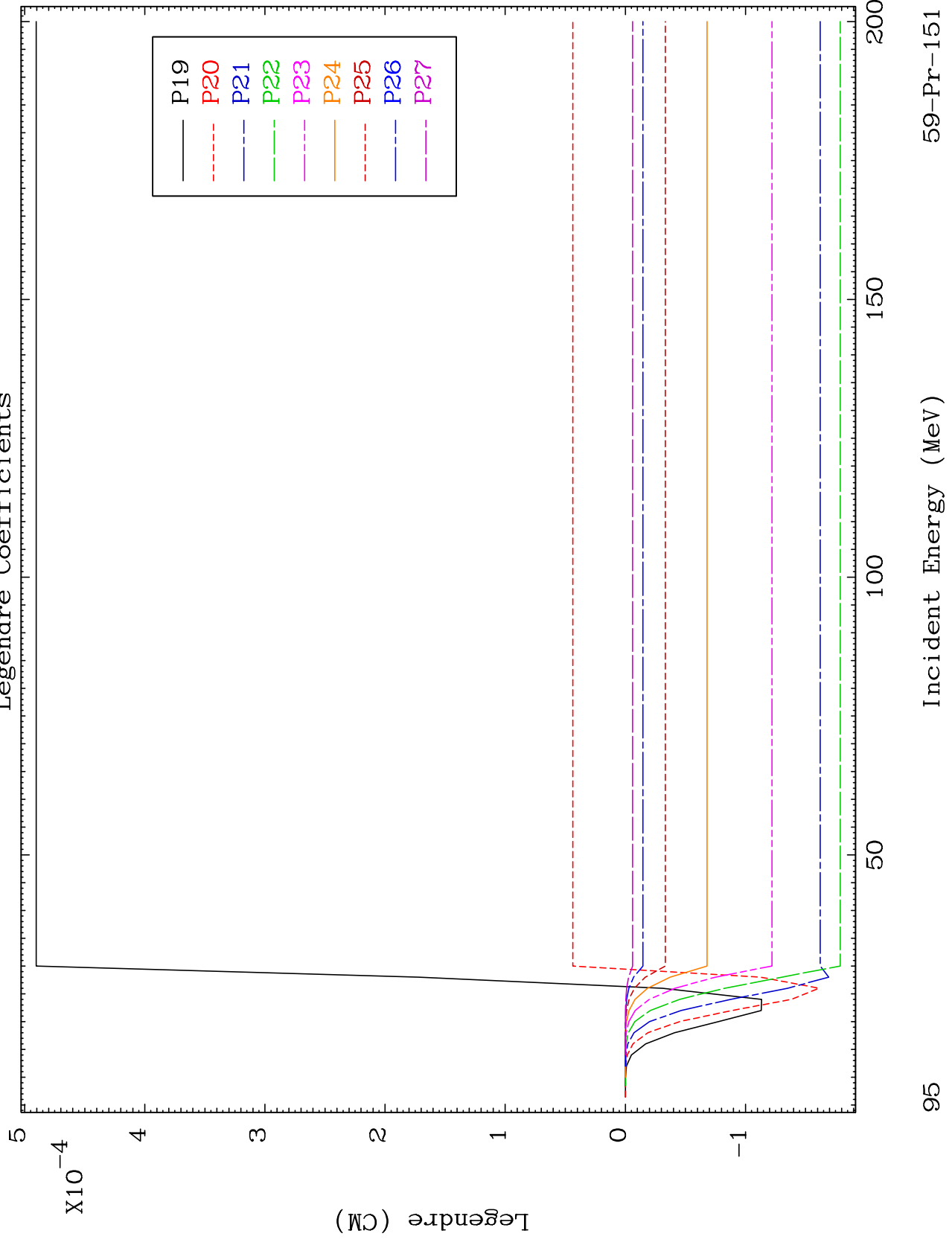
Incident Energy (MeV)

59-Pr-151

MAT 5955

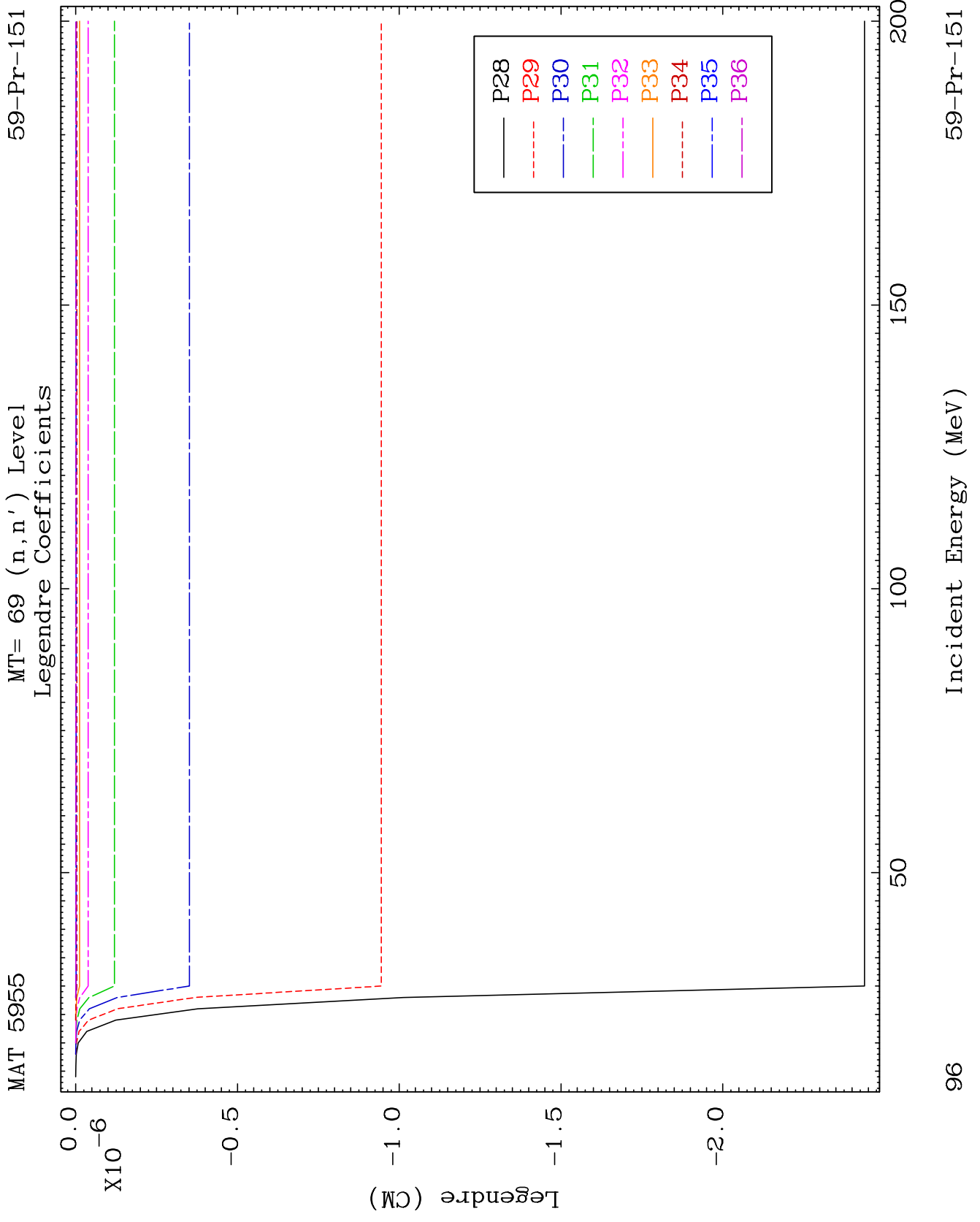
MT= 69 (n,n') Level
Legendre Coefficients

59-Pr-151



95

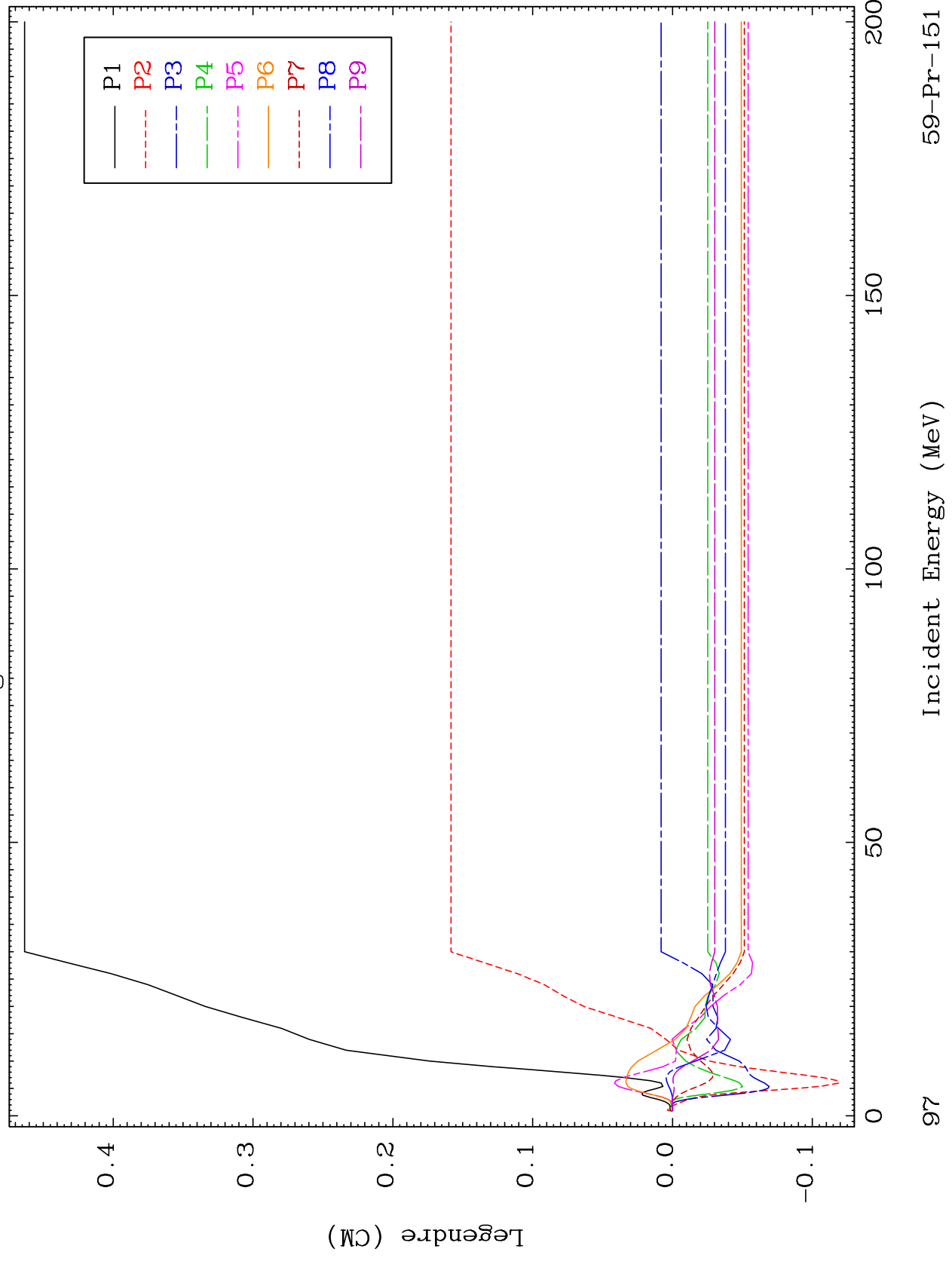
59-Pr-151



MAT 5955

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

59-Pr-151



97

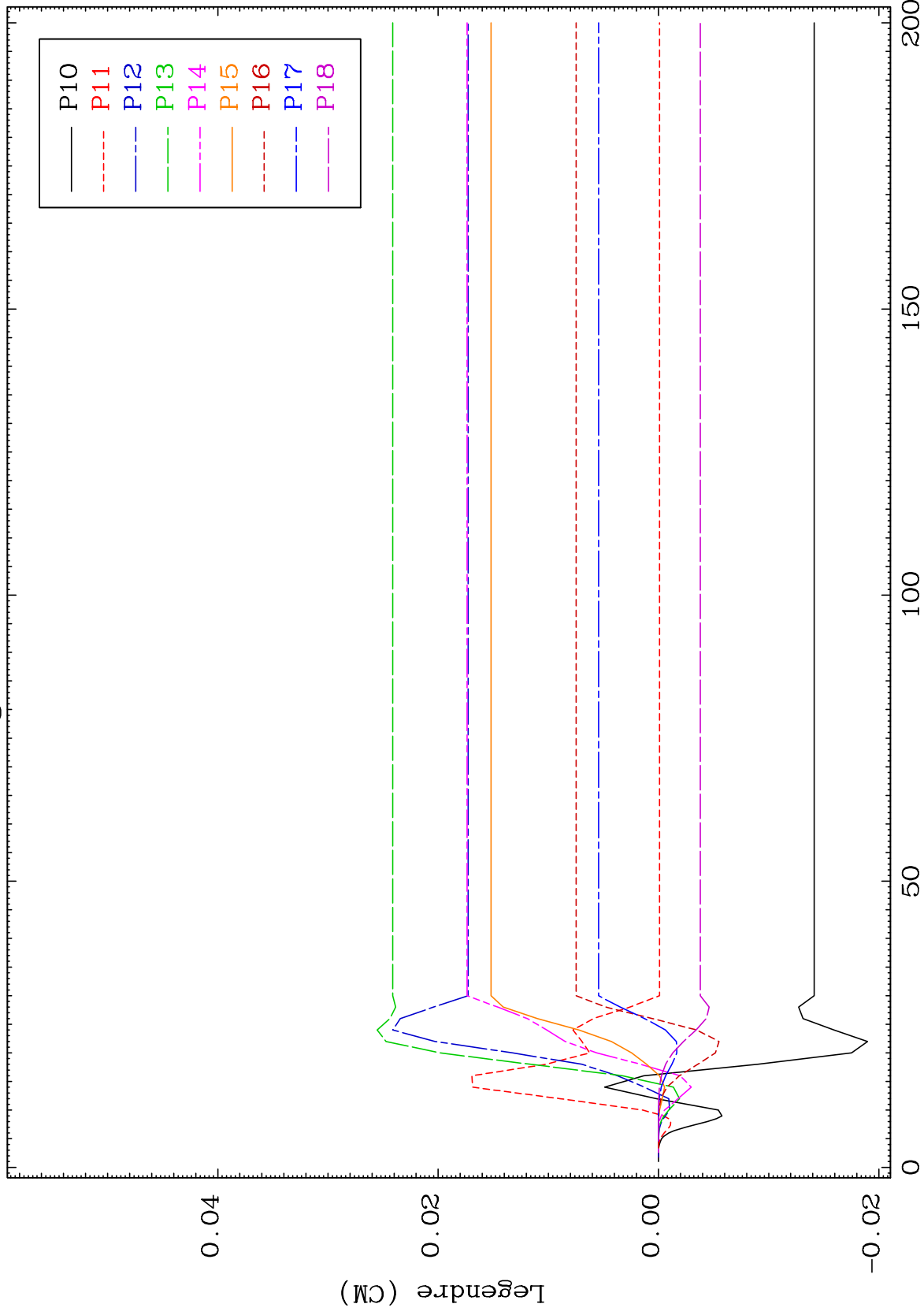
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



98

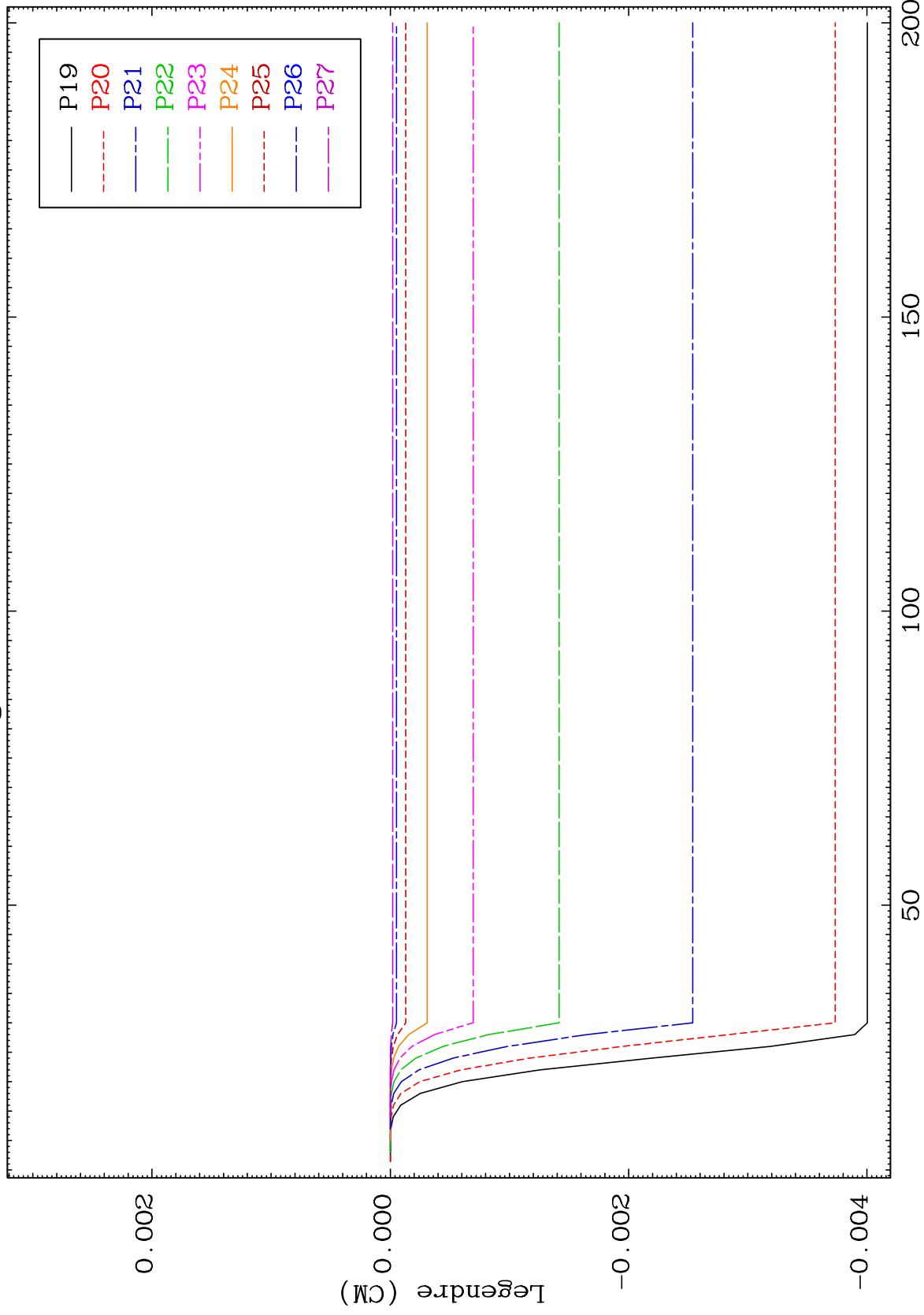
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

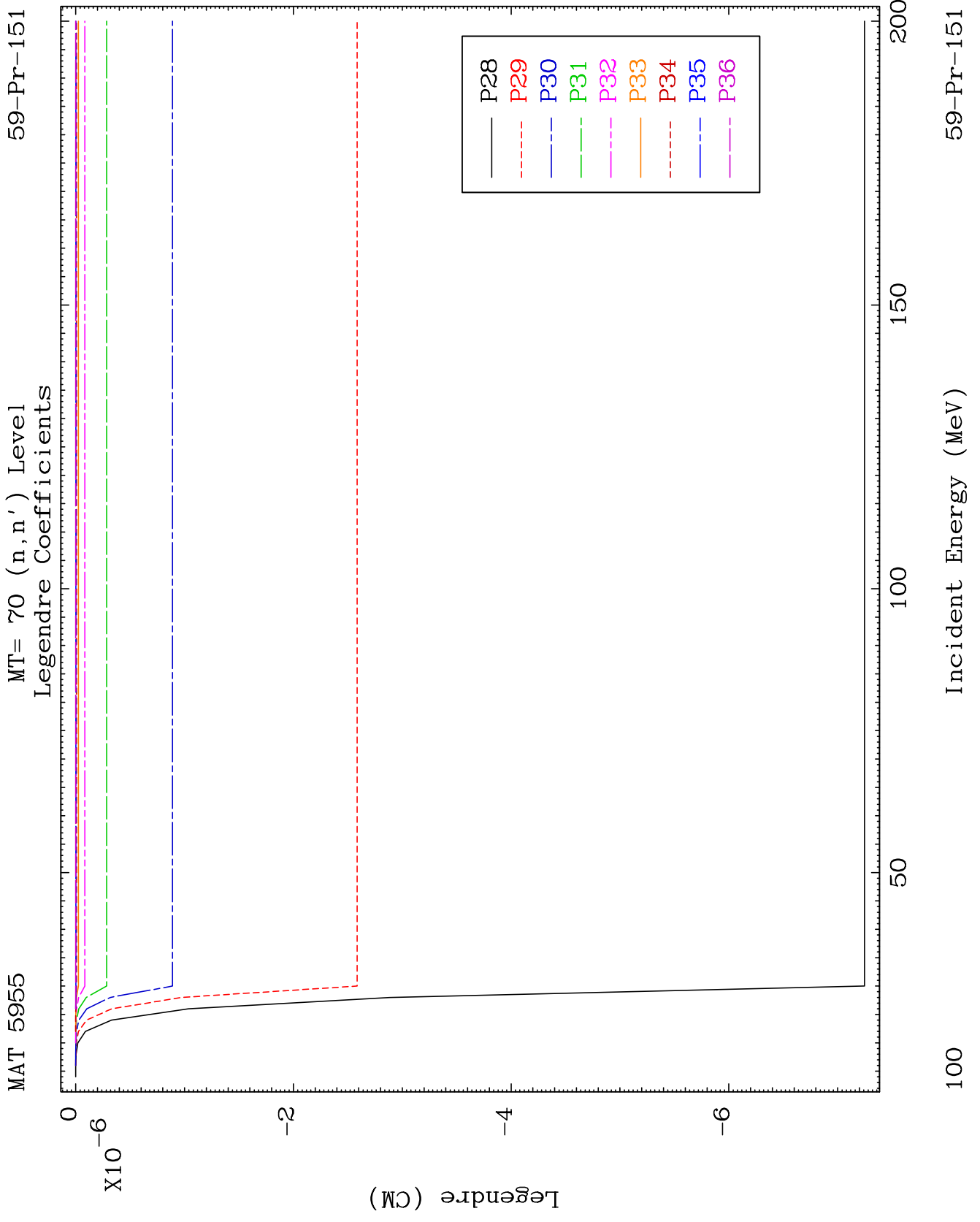
59-Pr-151



99

Incident Energy (MeV)

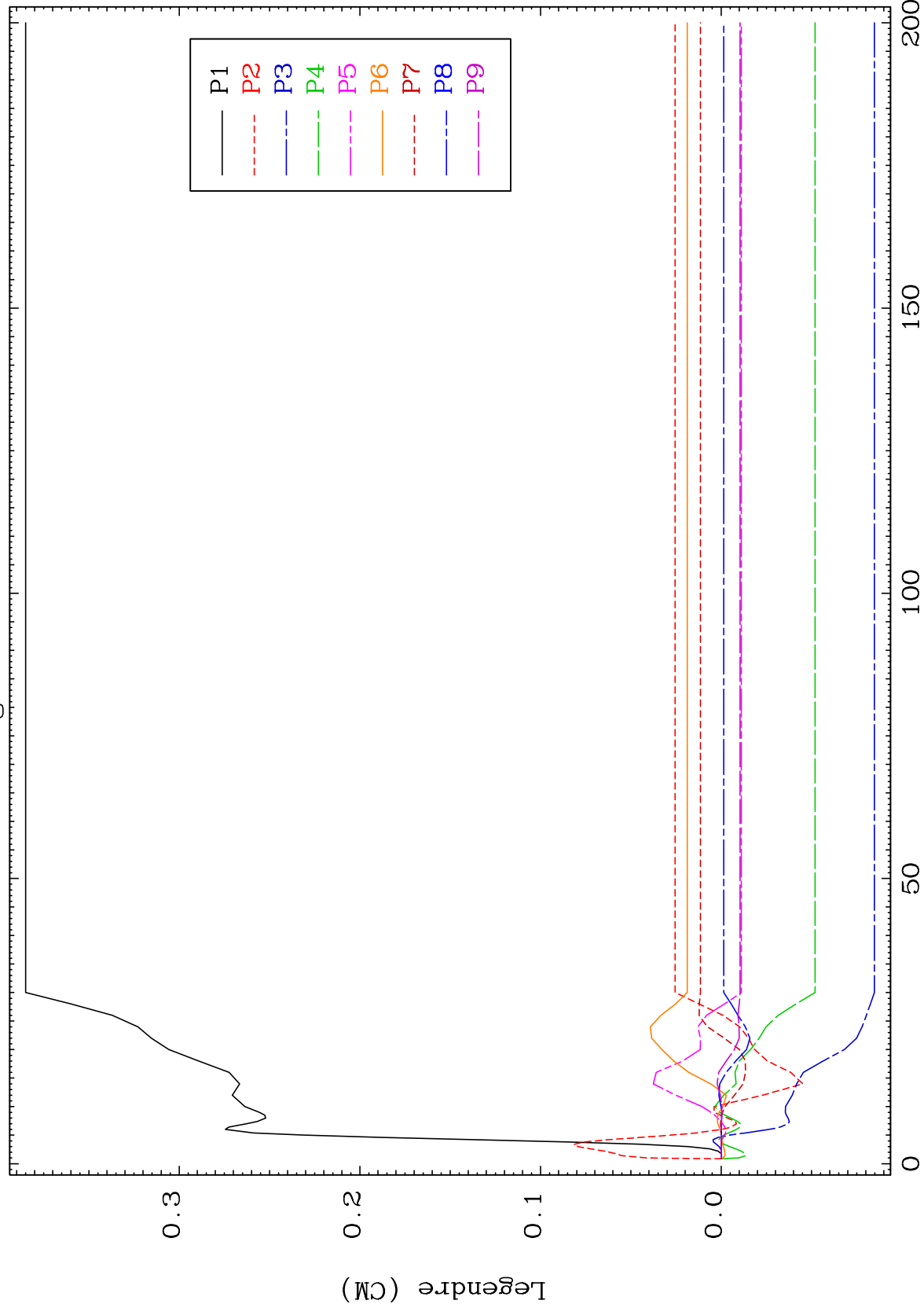
59-Pr-151



MAT 5955

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

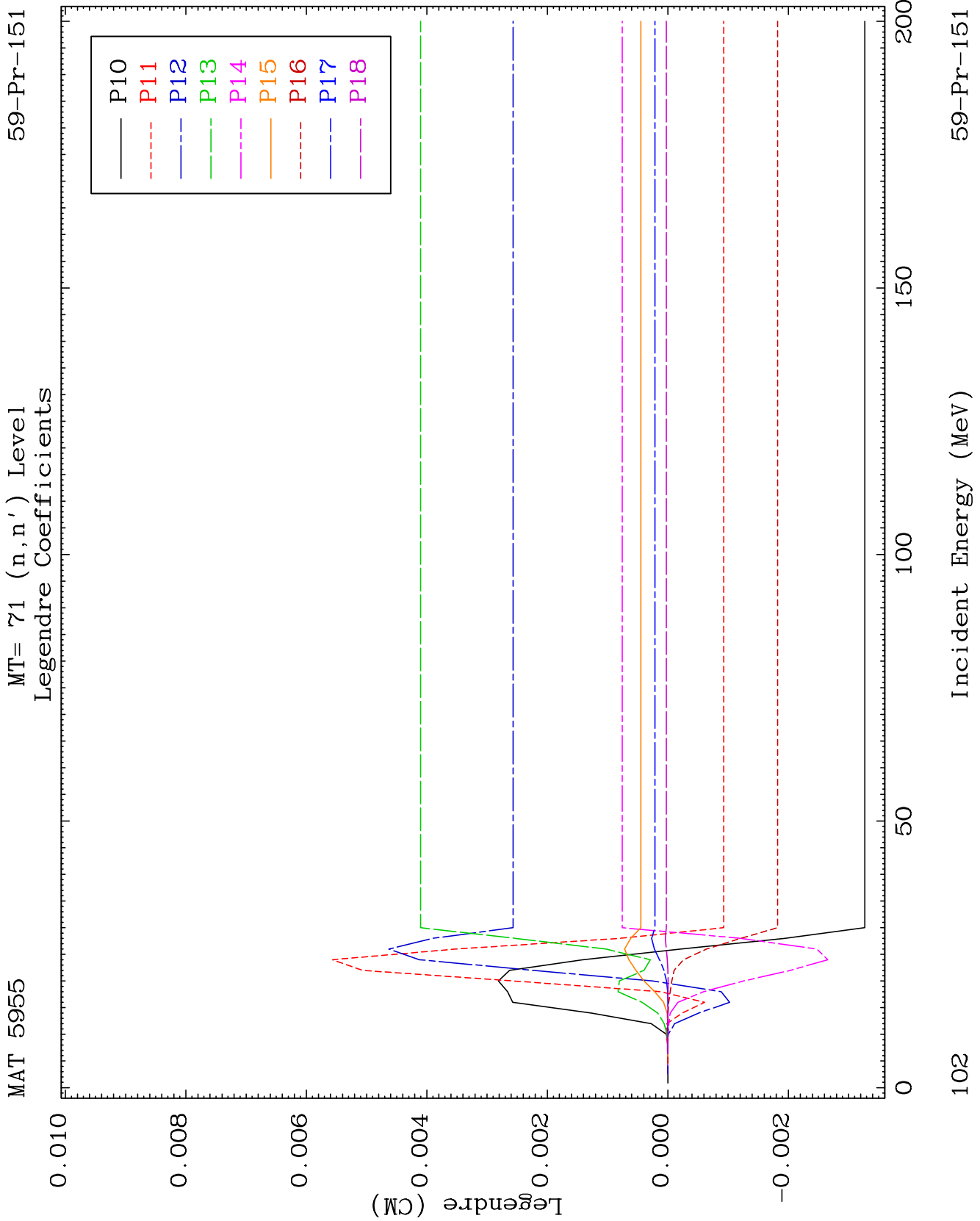
59-Pr-151



59-Pr-151

Incident Energy (MeV)

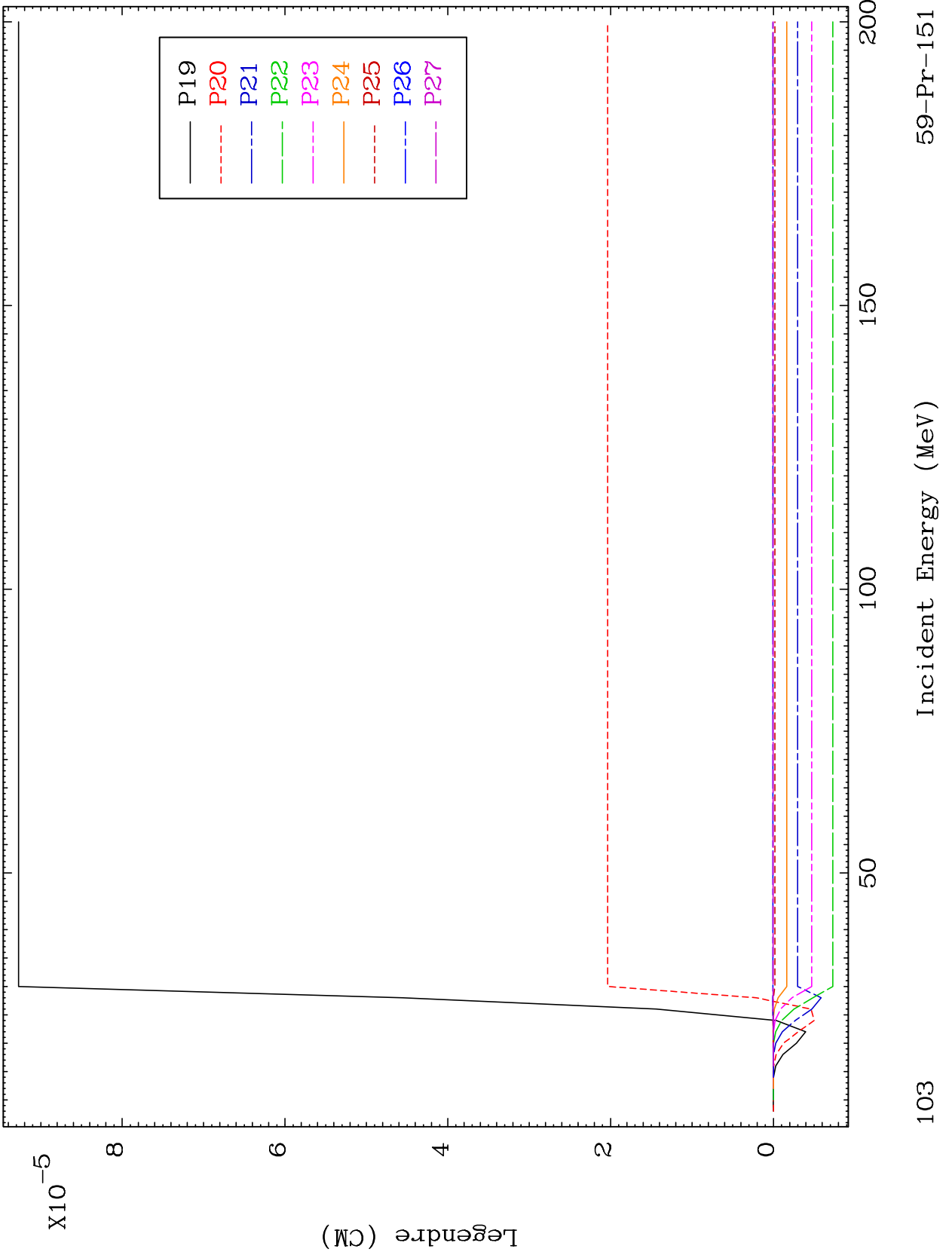
101



MAT 5955

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

59-Pr-151



103

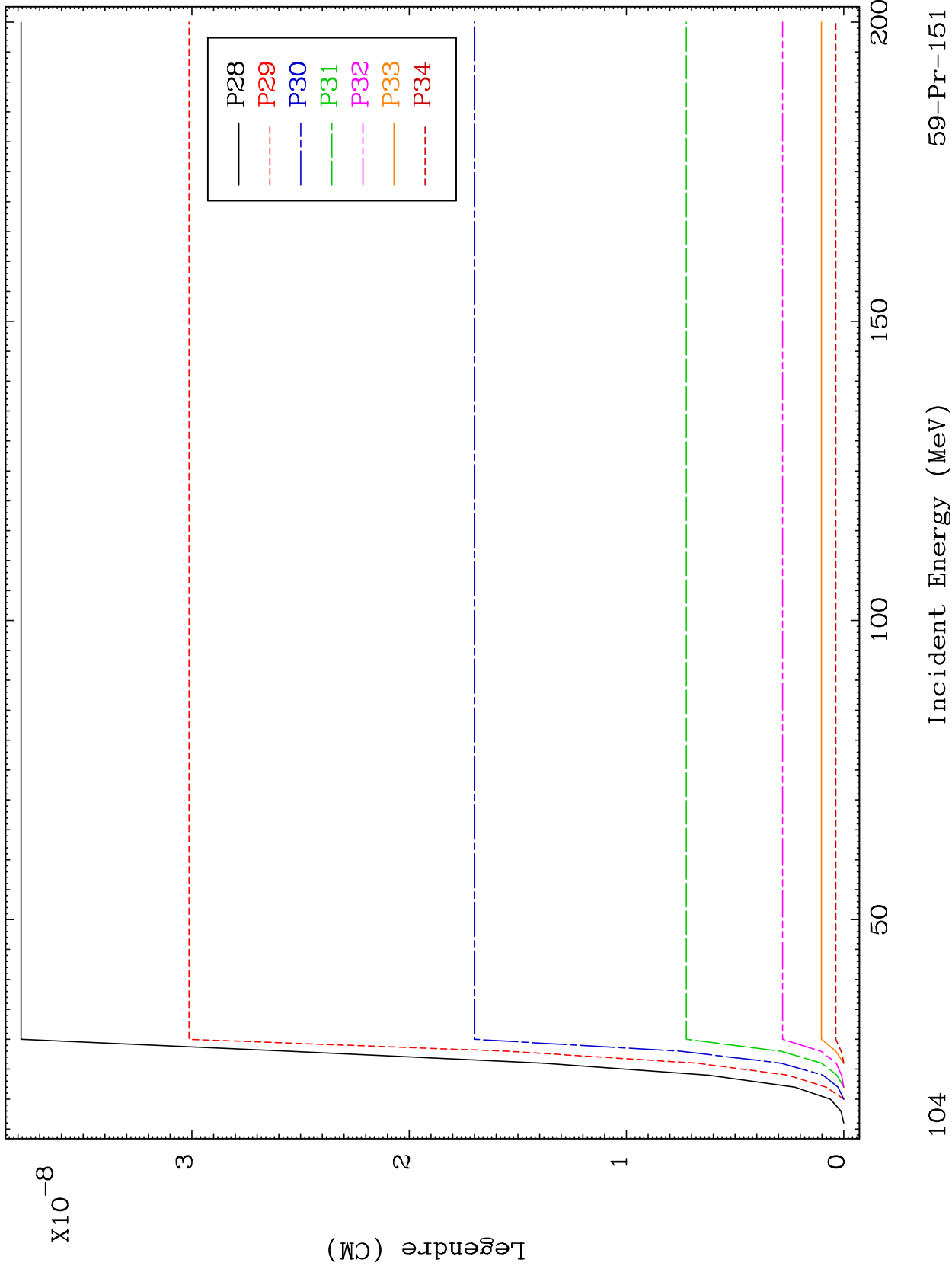
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



104

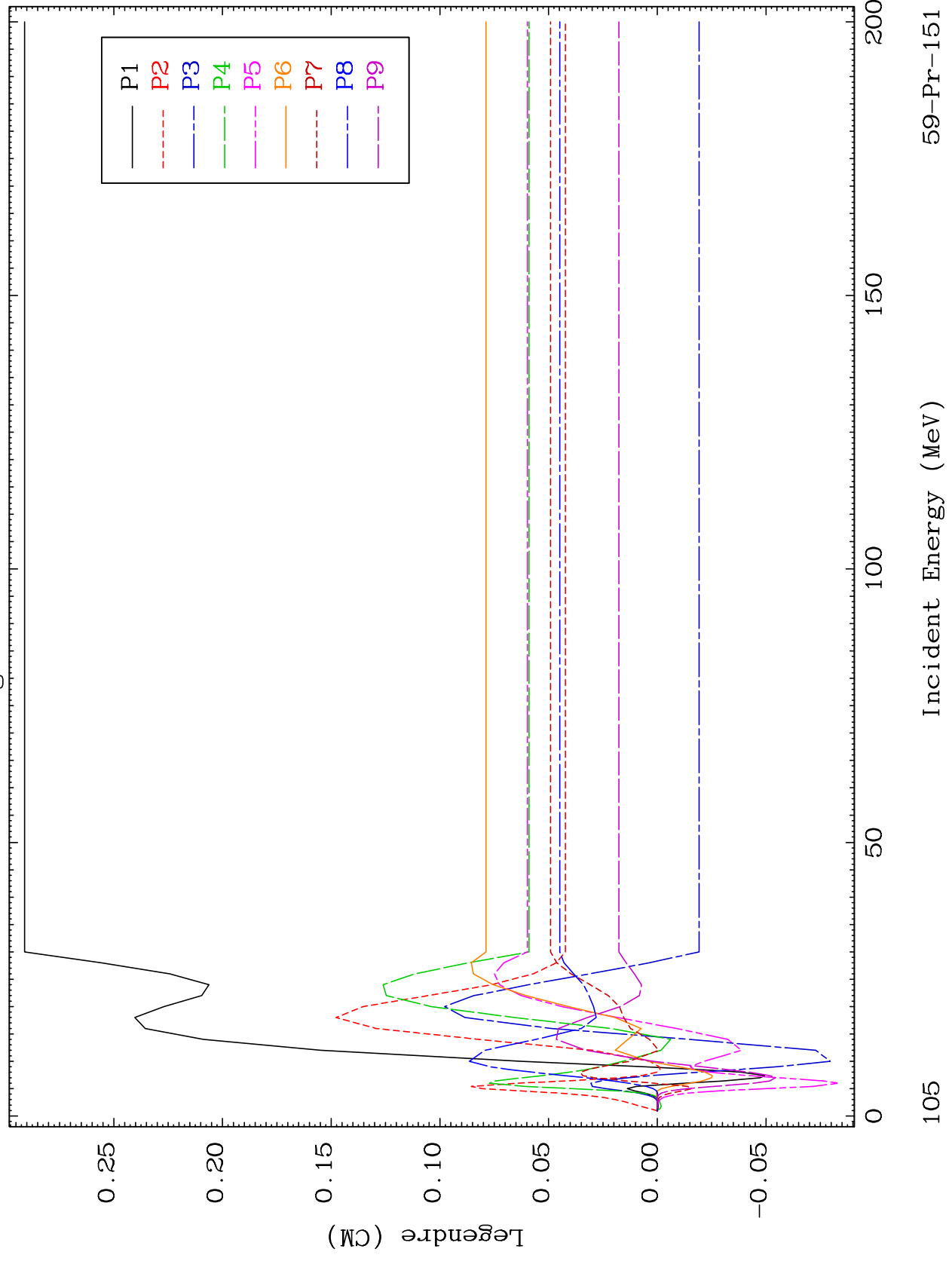
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



59-Pr-151

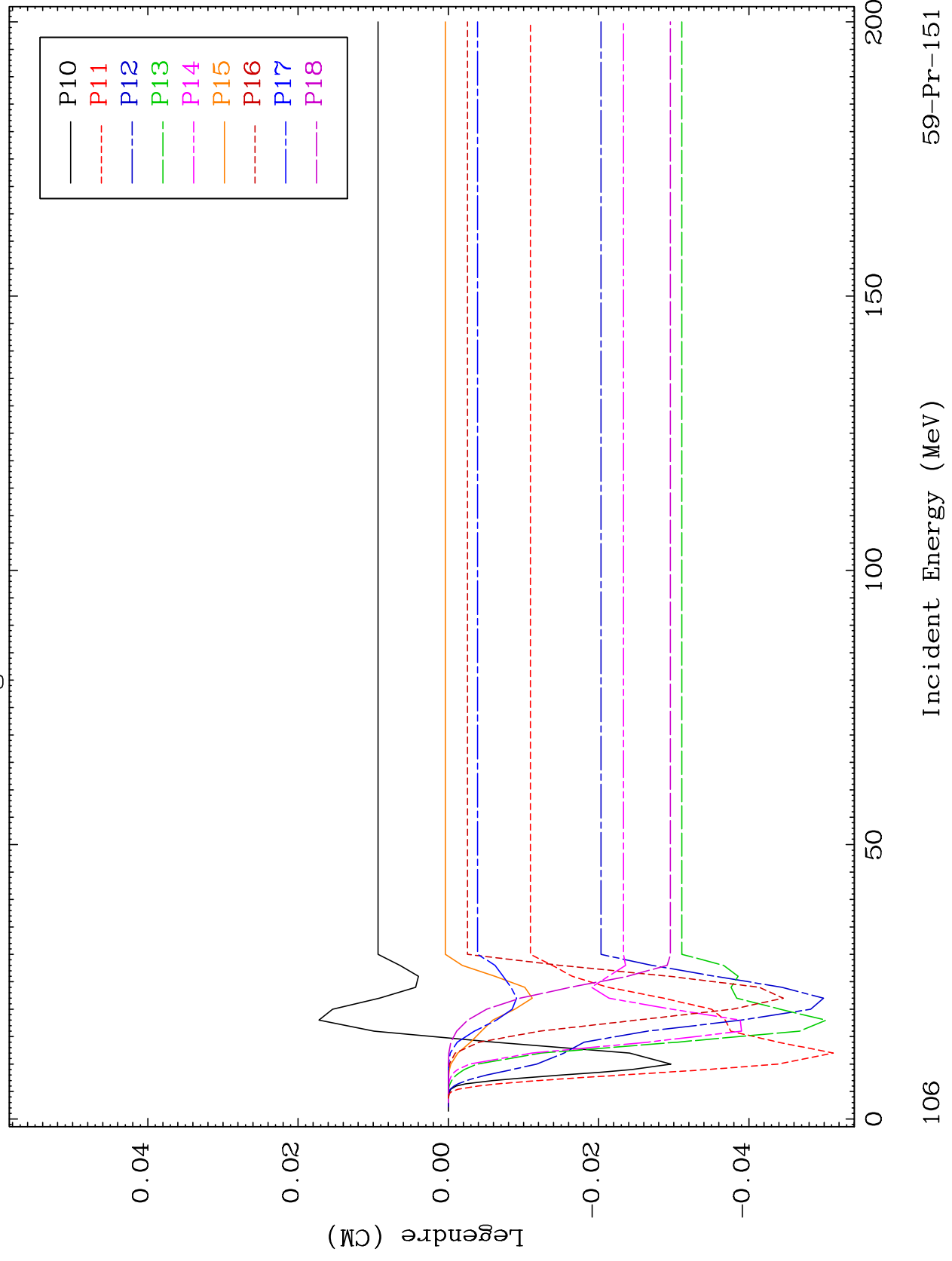
Incident Energy (MeV)

105

MAT 5955

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

59-Pr-151



59-Pr-151

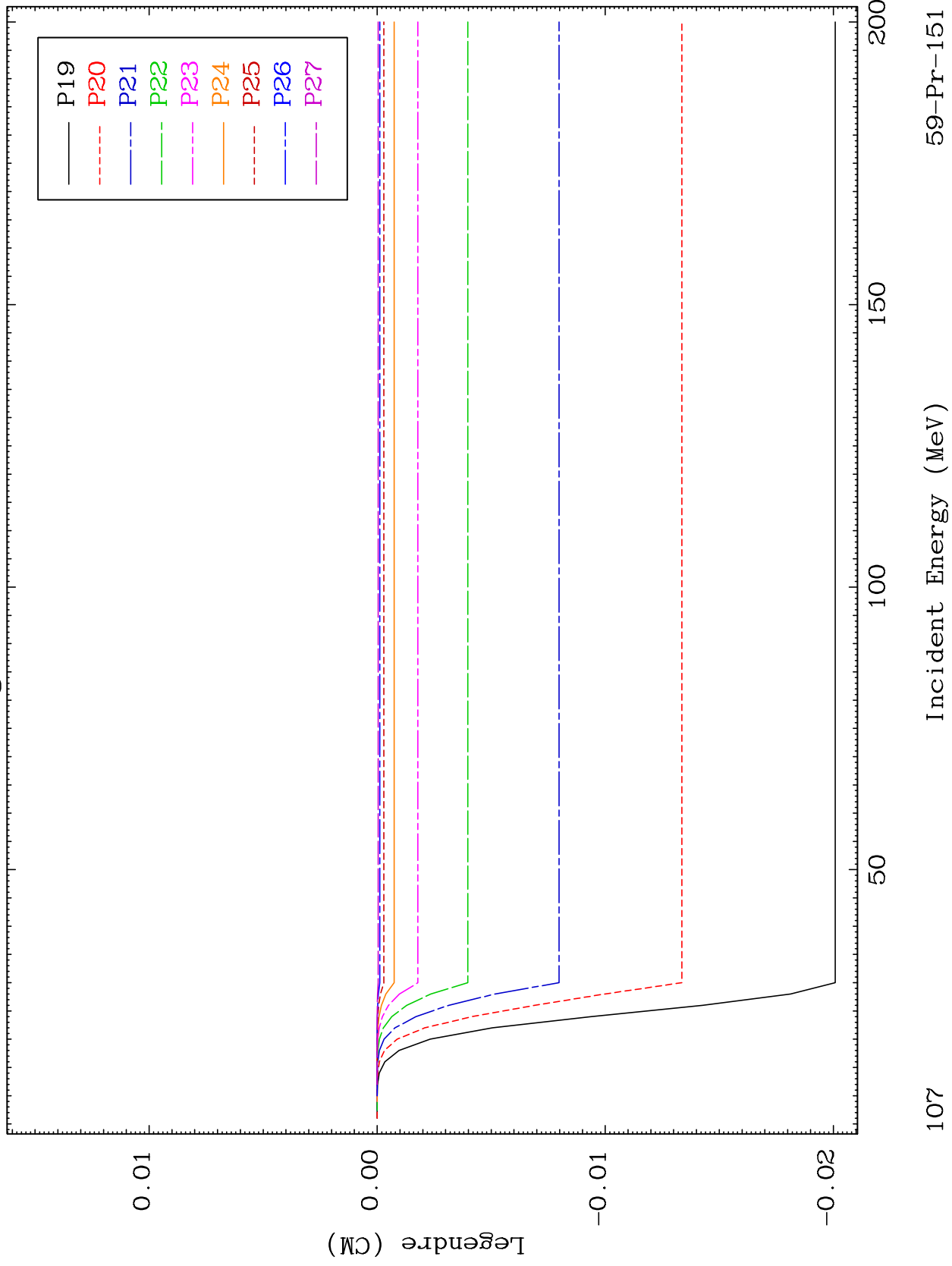
Incident Energy (MeV)

106

MAT 5955

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

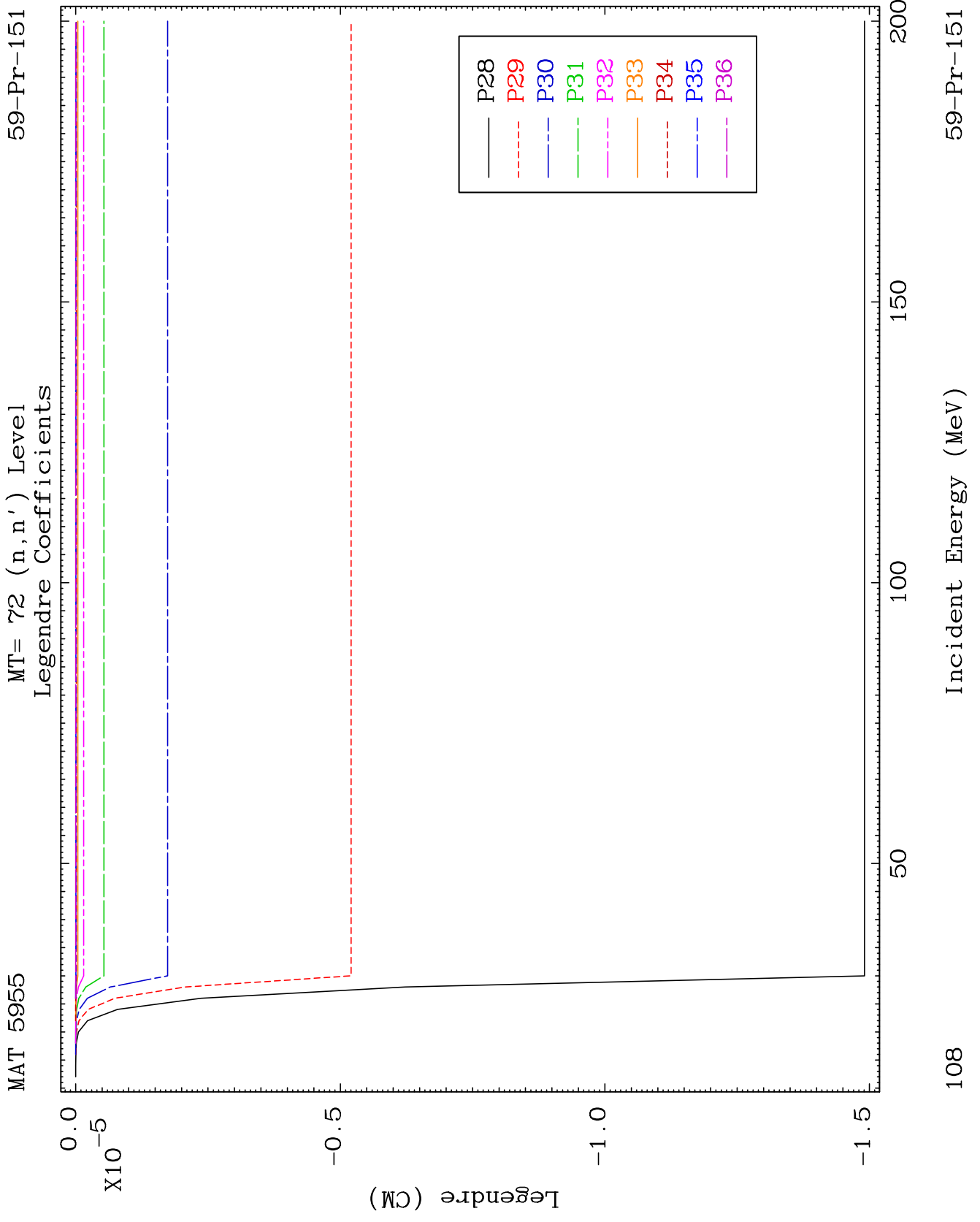
59-Pr-151



107

Incident Energy (MeV)

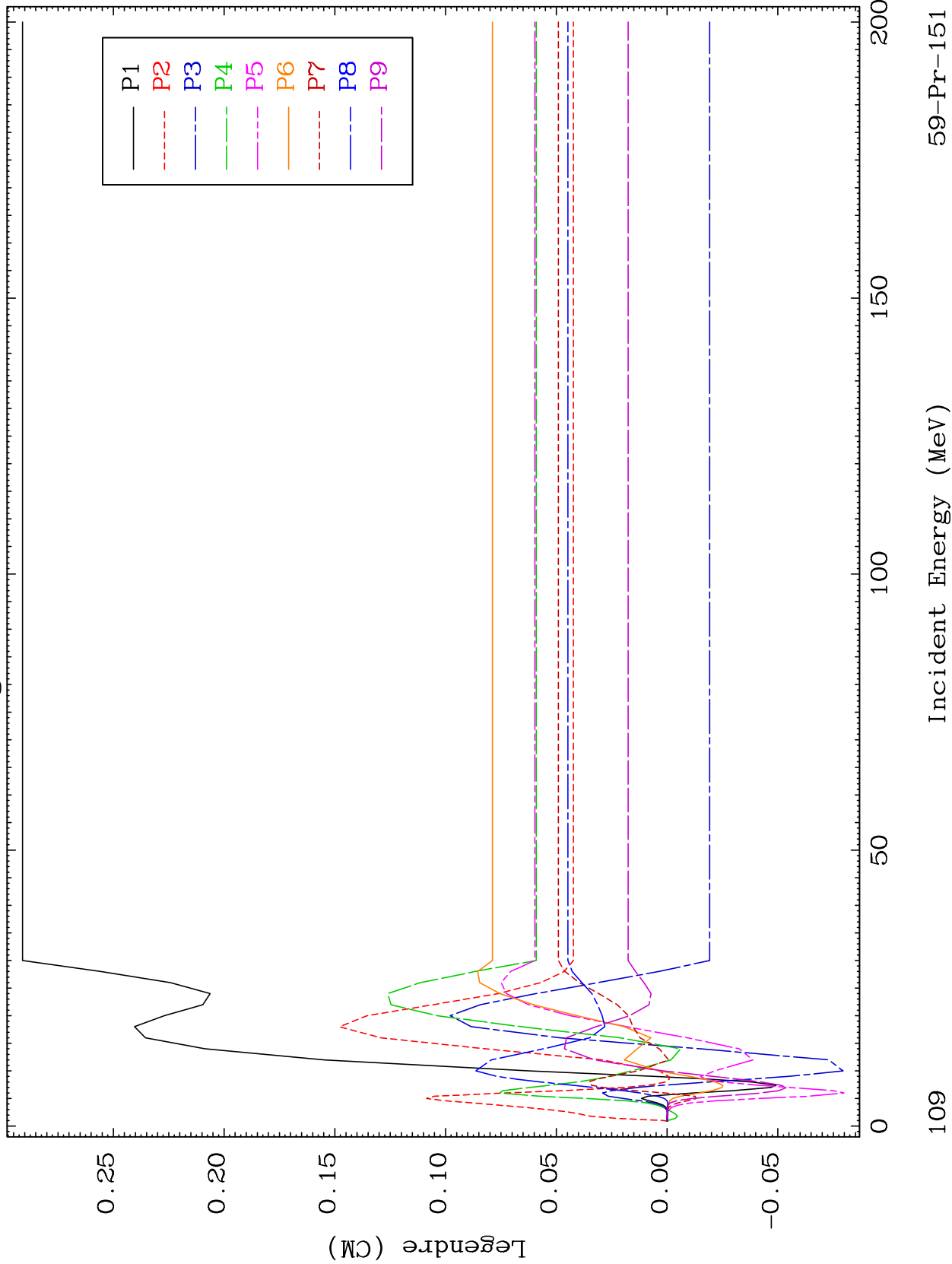
59-Pr-151



MAT 5955

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

59-Pr-151



59-Pr-151

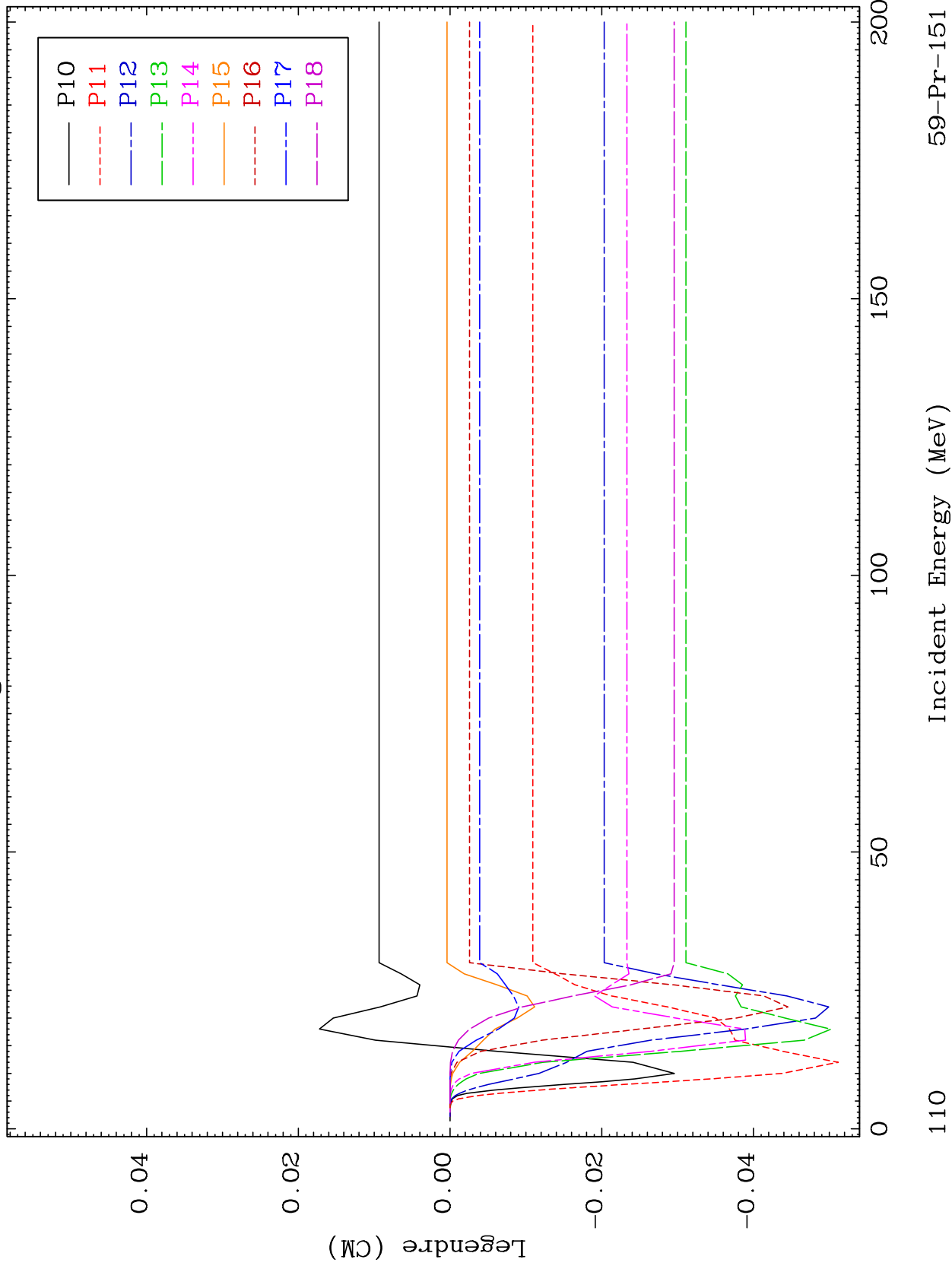
Incident Energy (MeV)

109

MAT 5955

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

59-Pr-151



59-Pr-151

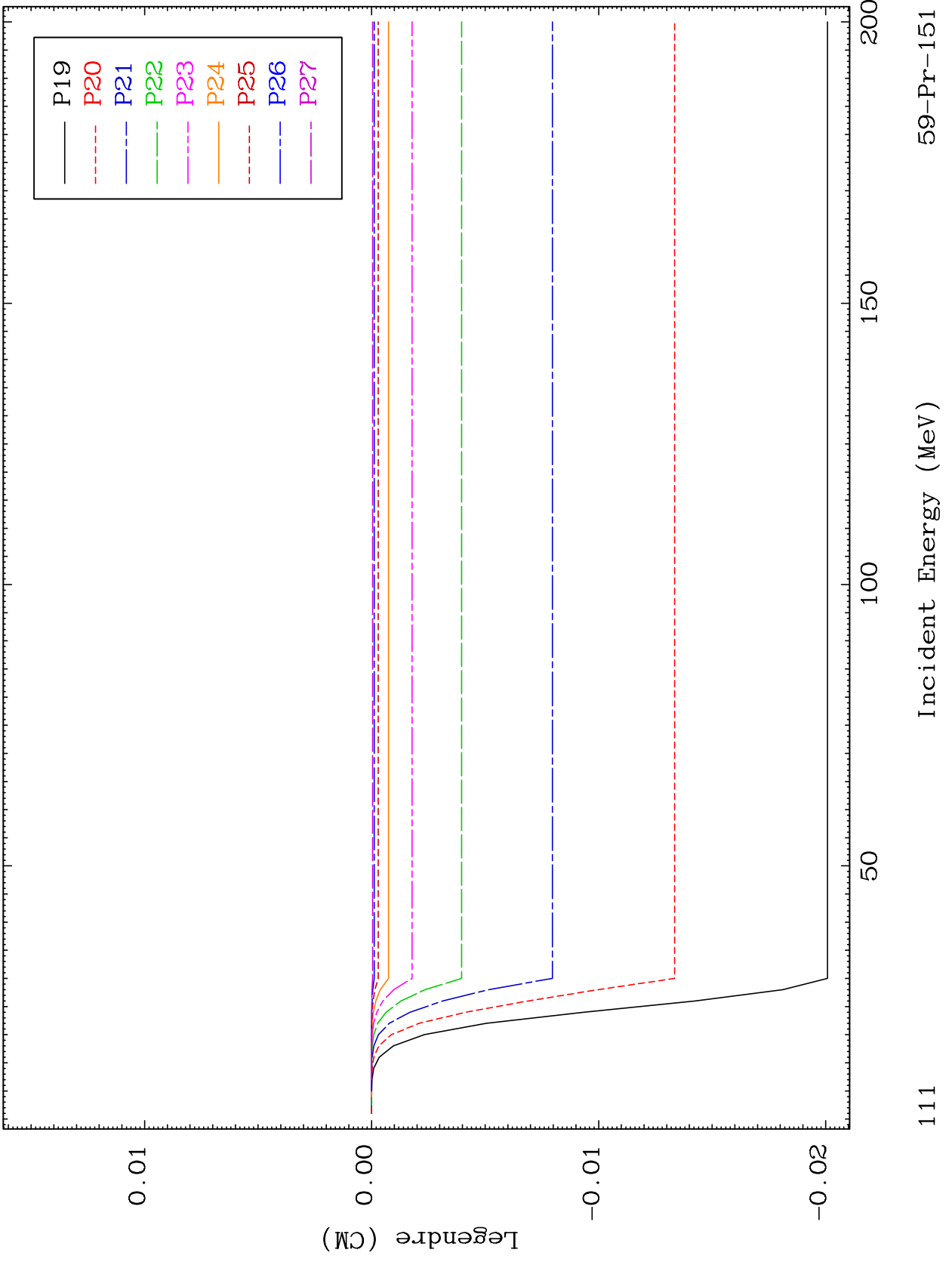
Incident Energy (MeV)

110

MAT 5955

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

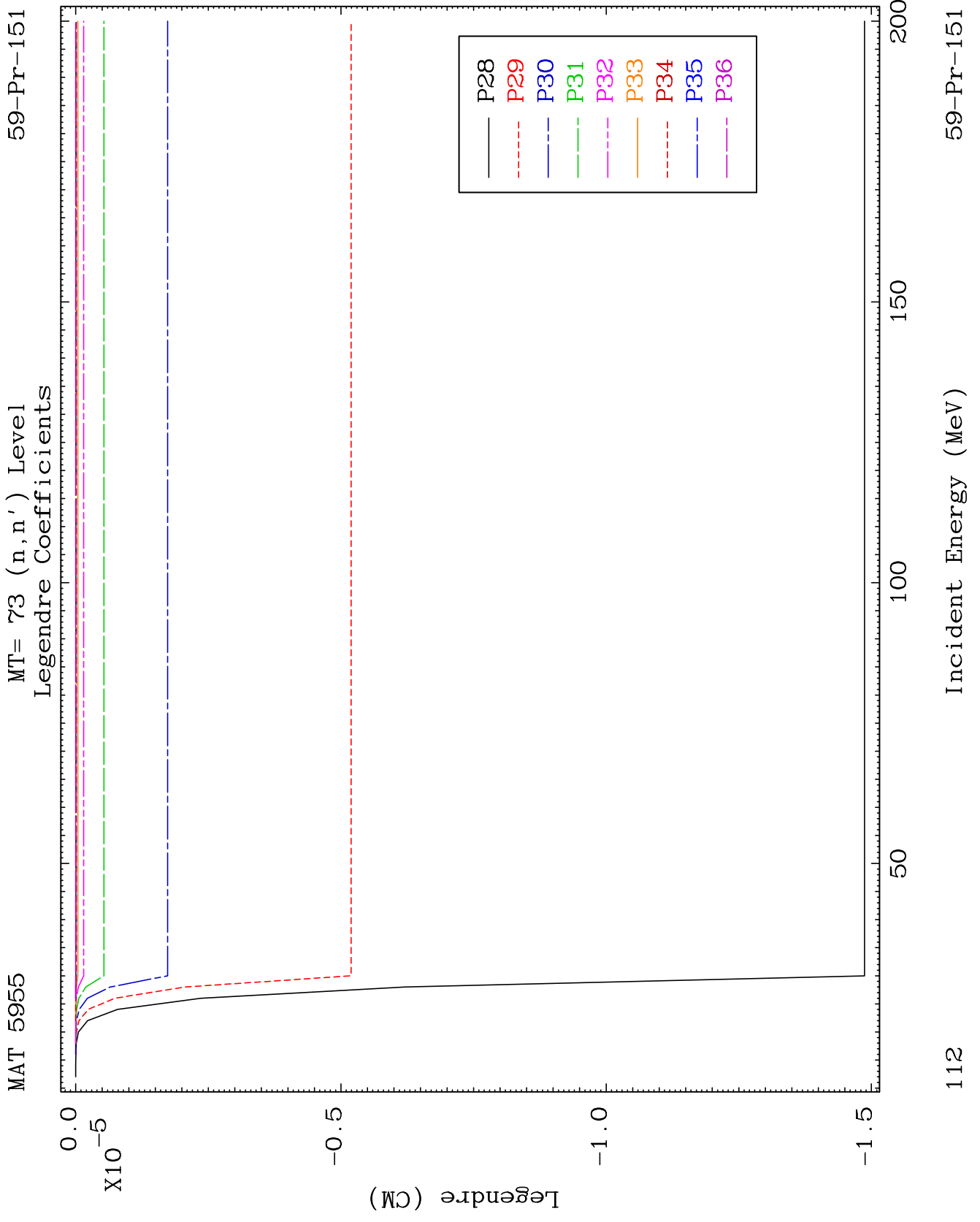
59-Pr-151



111

Incident Energy (MeV)

59-Pr-151

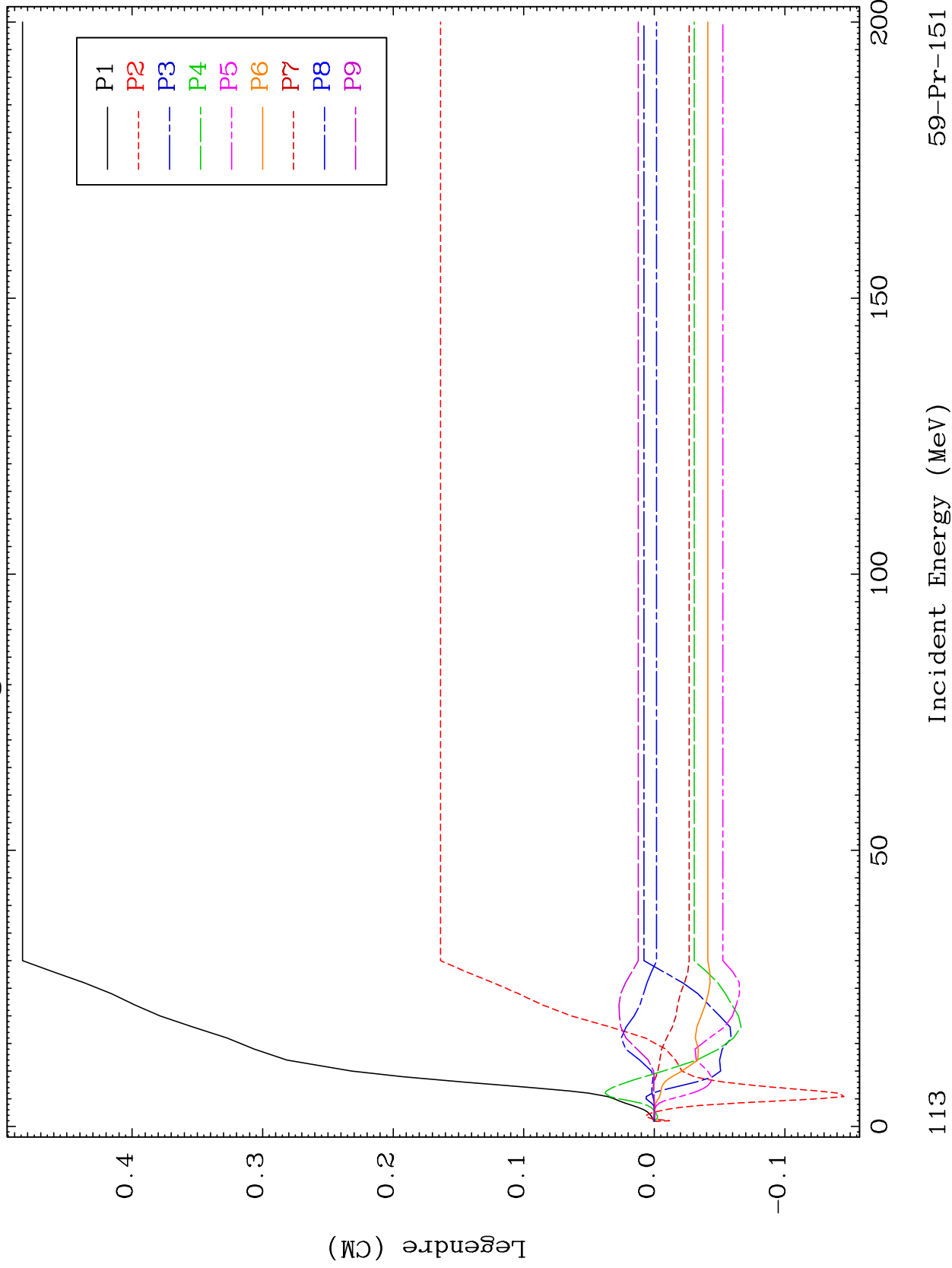


MAT 5955

MT= 74 (n,n') Level

59-Pr-151

Legendre Coefficients



59-Pr-151

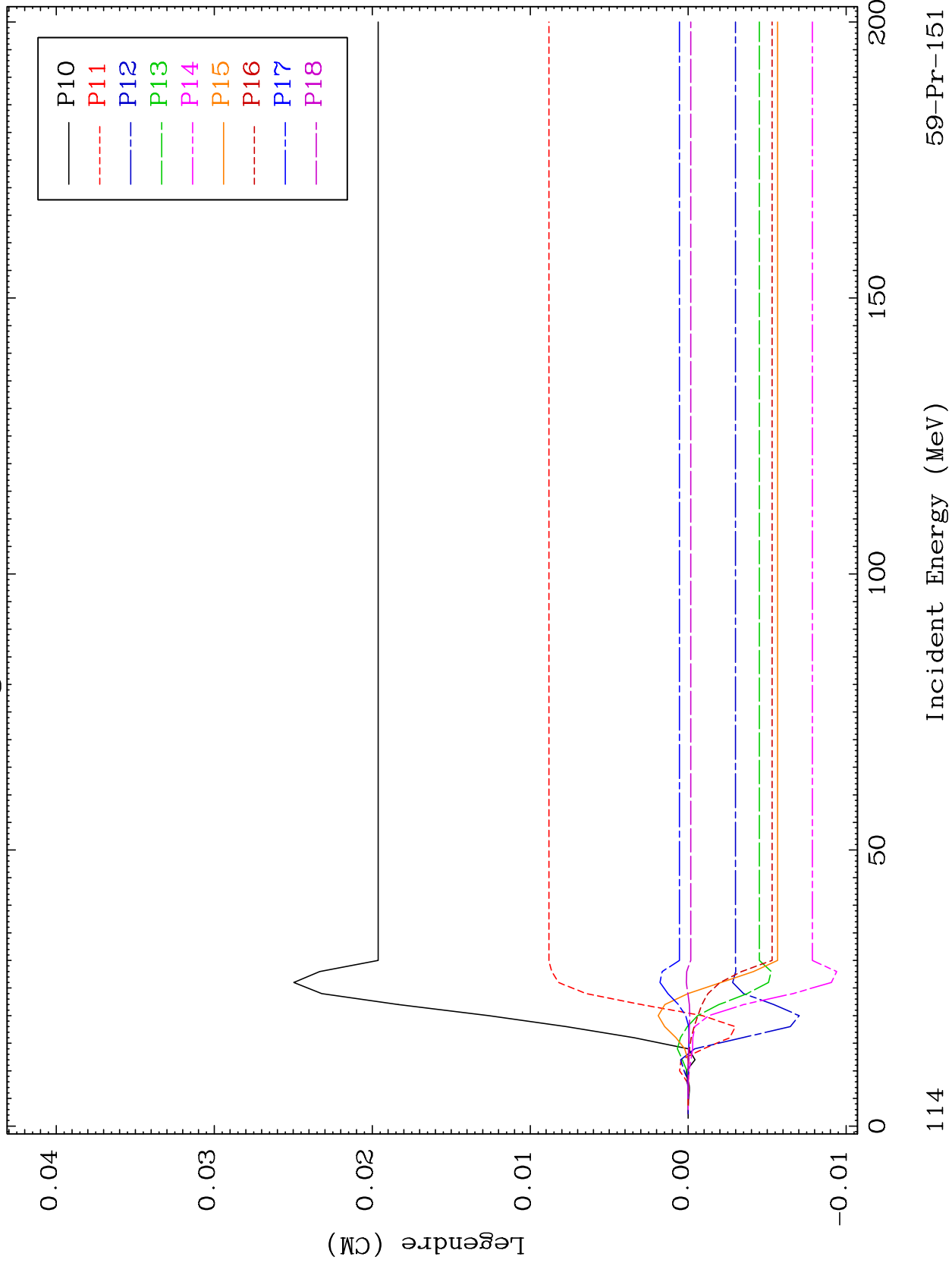
Incident Energy (MeV)

113

MAT 5955

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

59-Pr-151



114

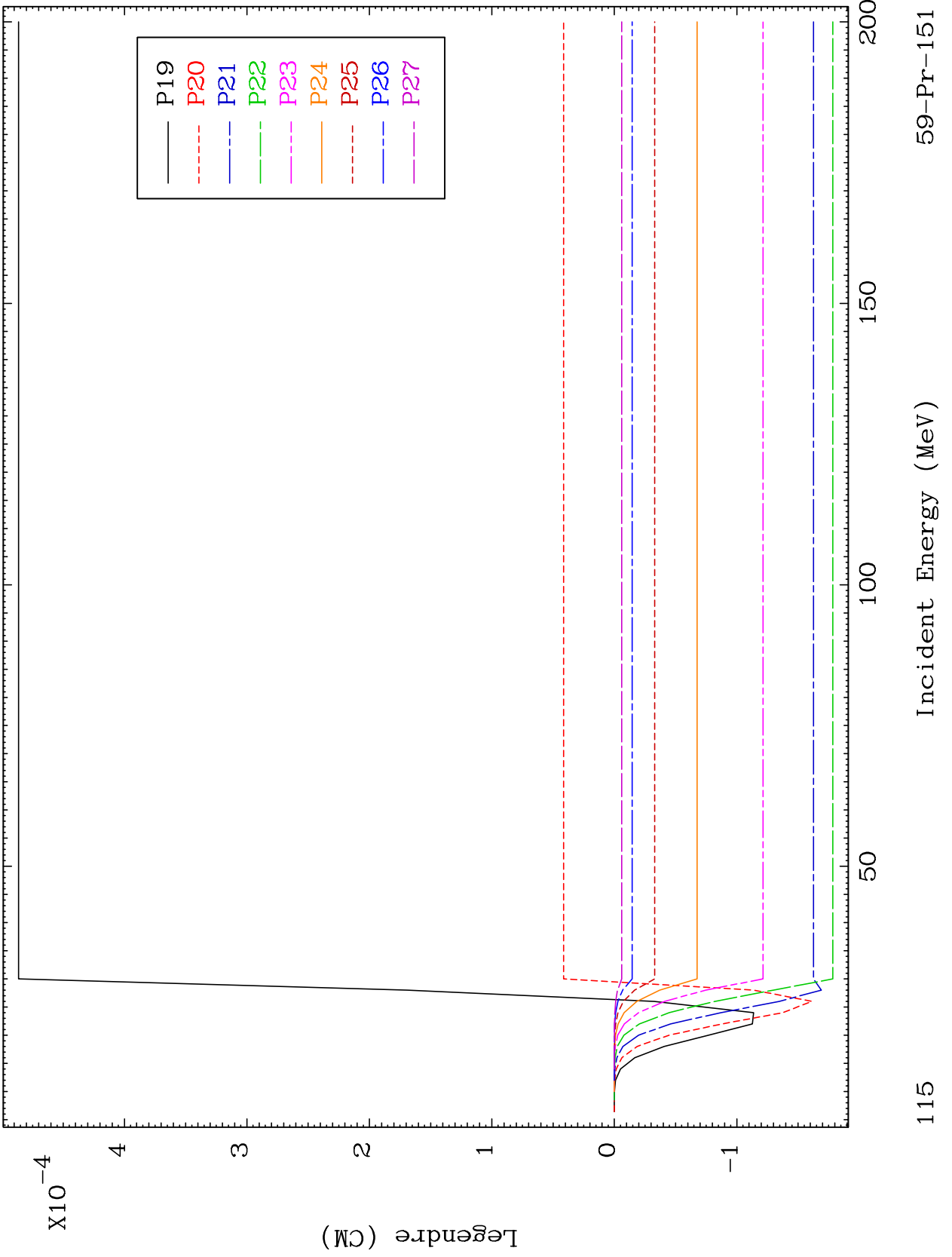
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

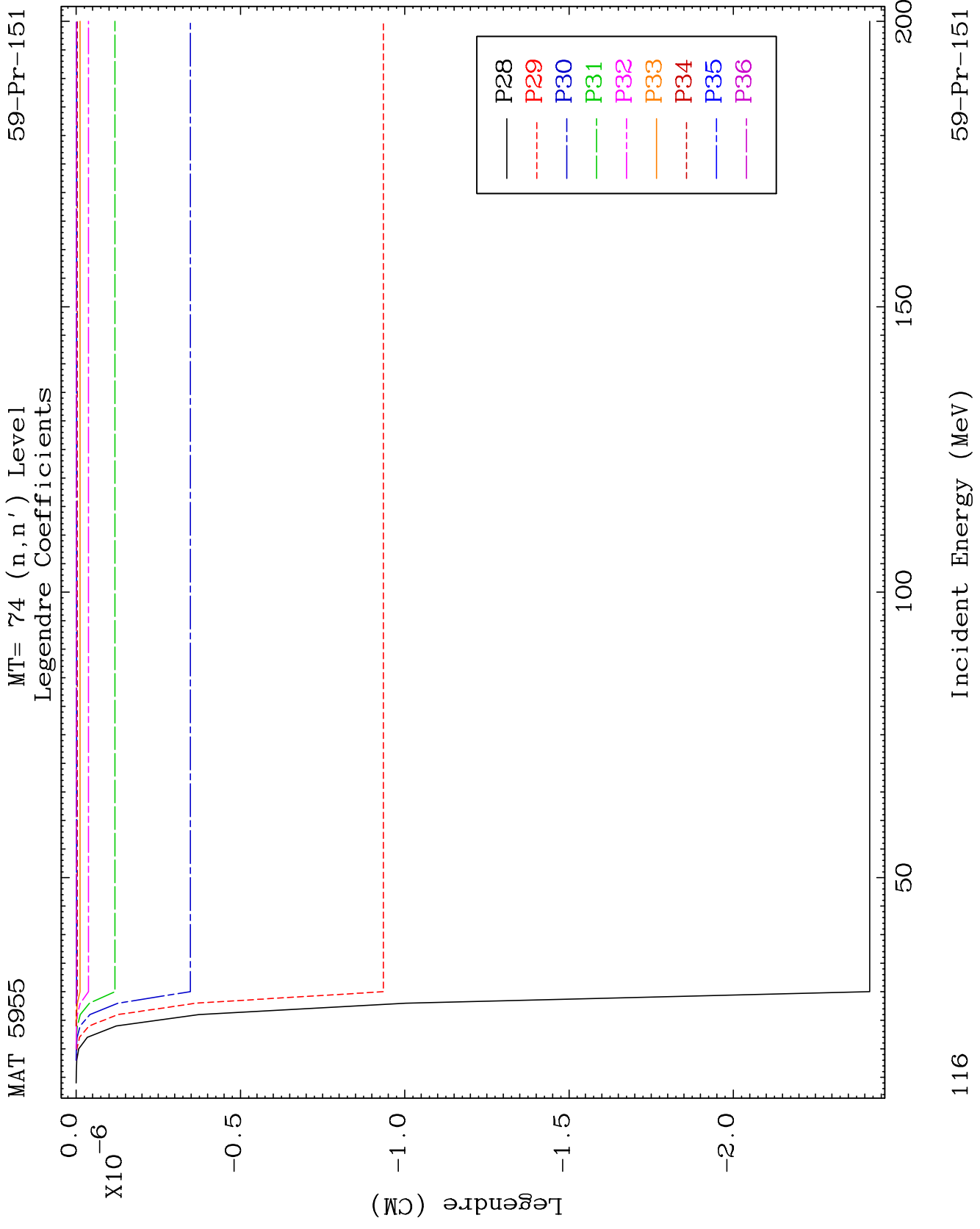
59-Pr-151



115

Incident Energy (MeV)

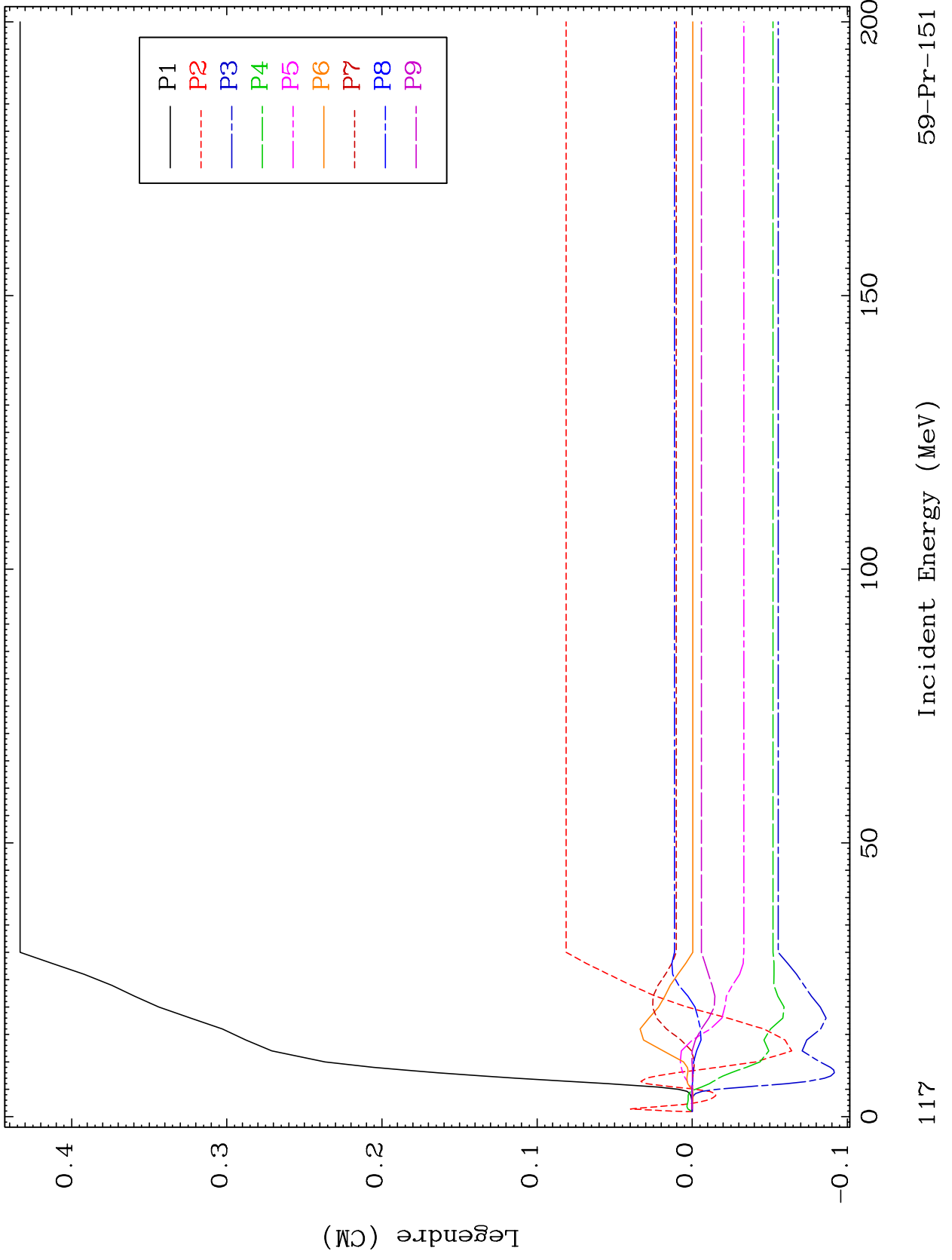
59-Pr-151

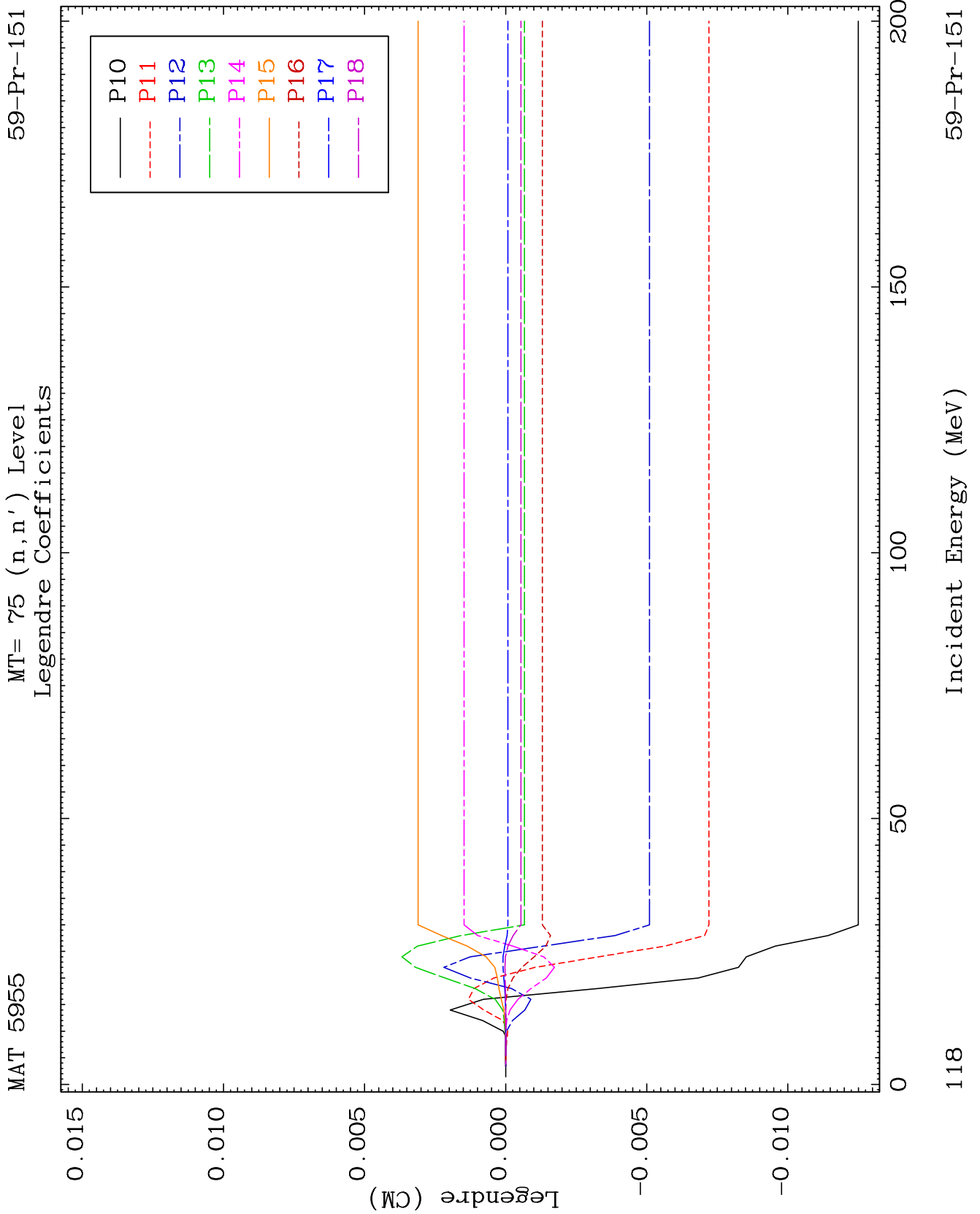


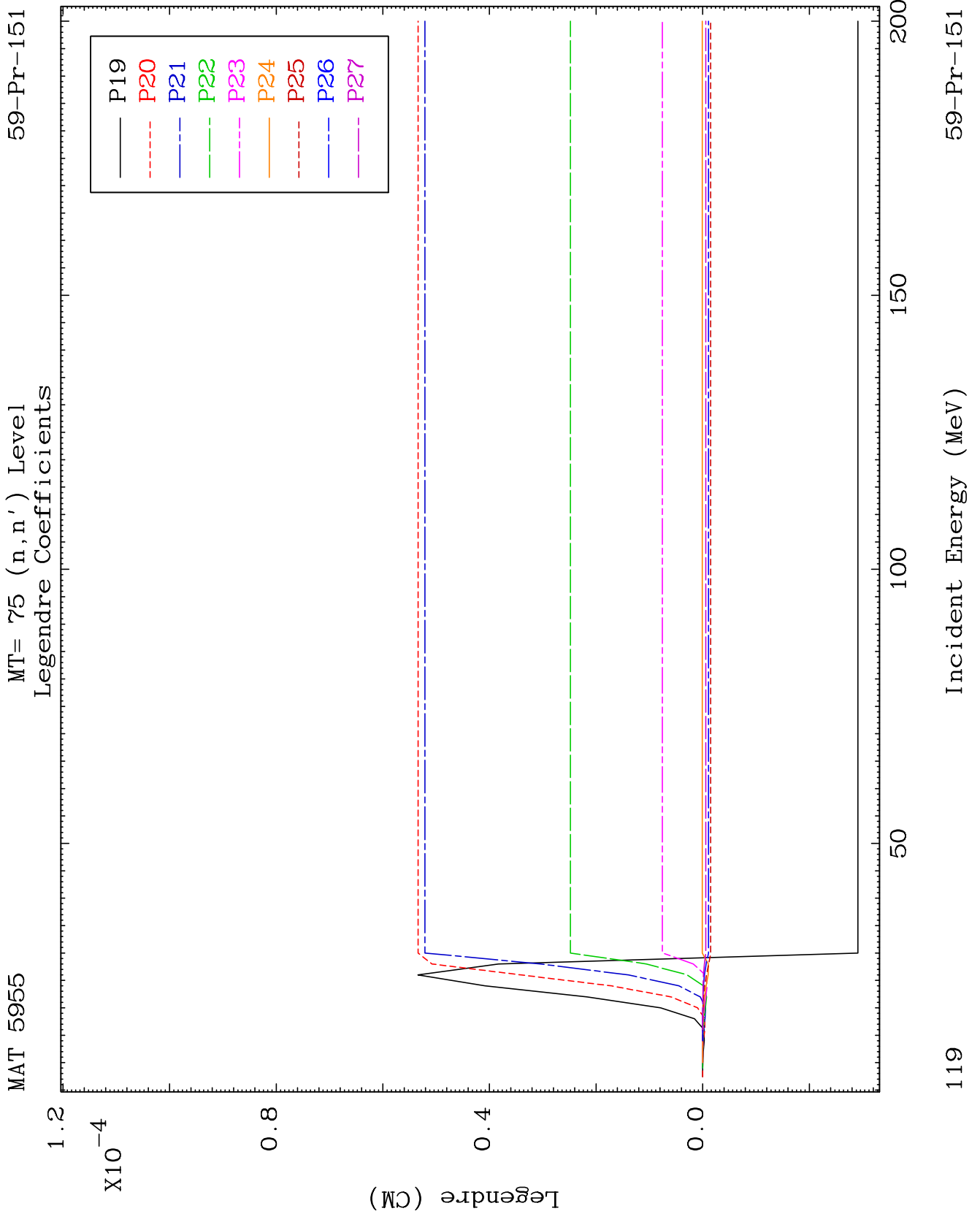
MAT 5955

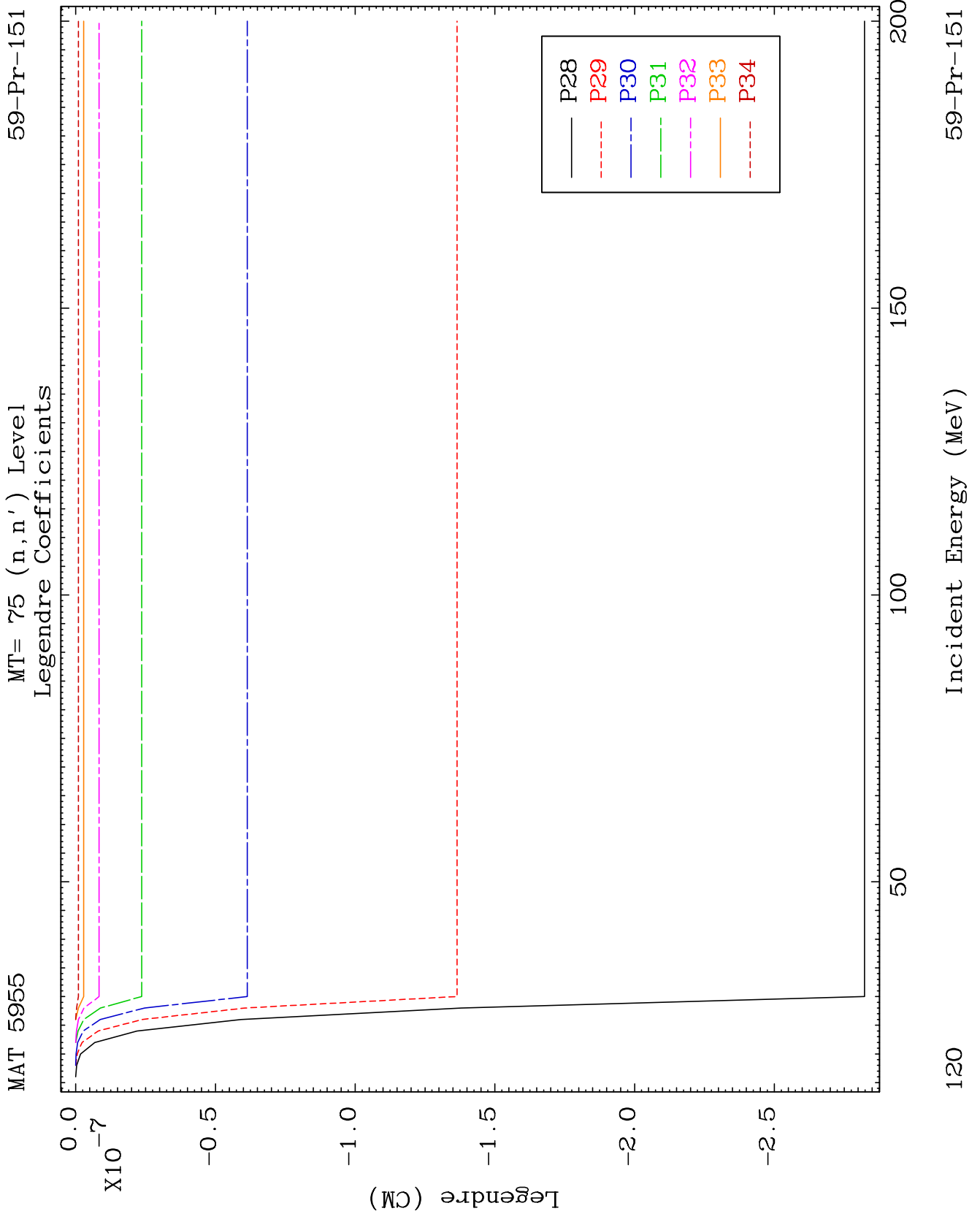
MT= 75 (n,n') Level
Legendre Coefficients

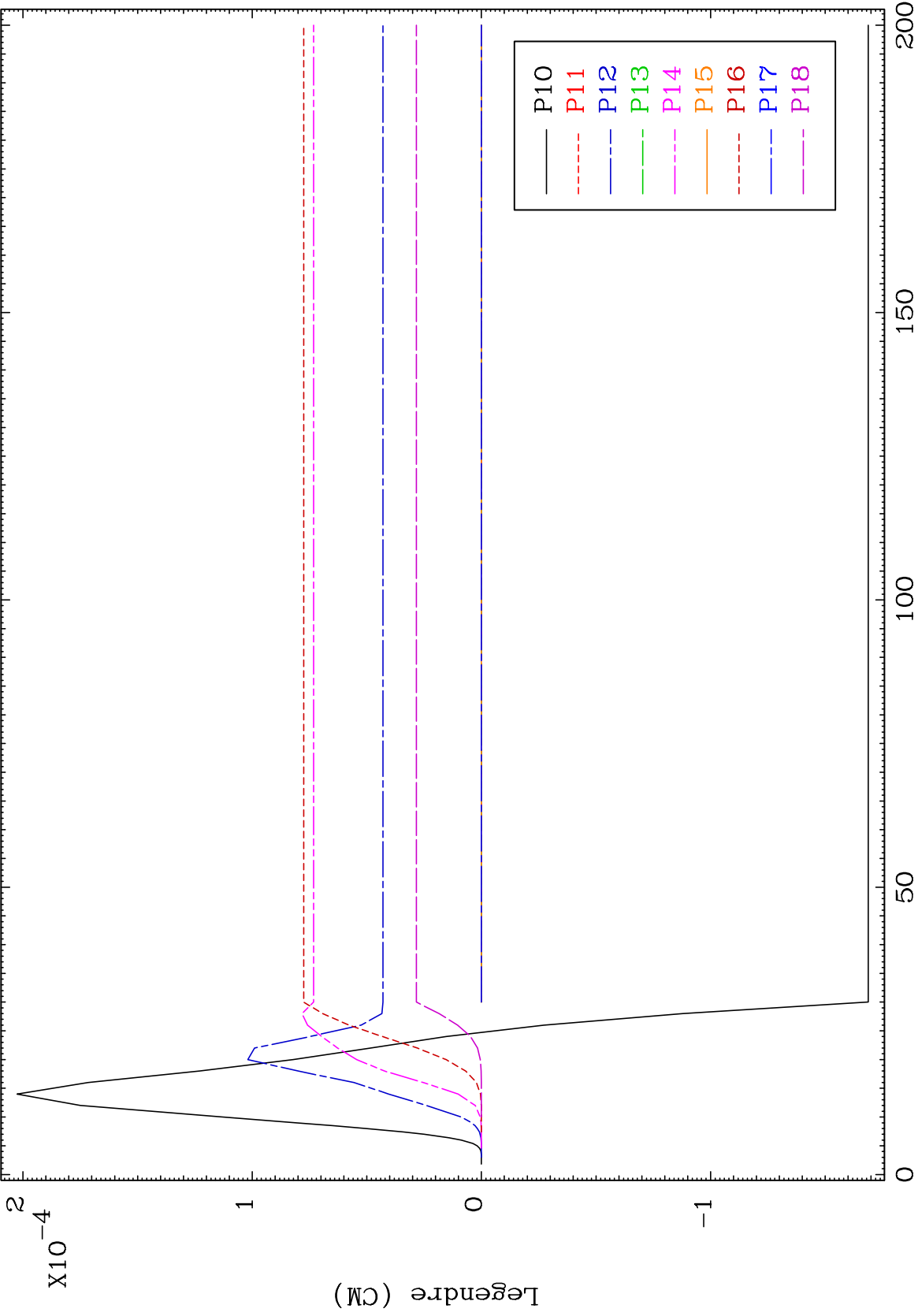
59-Pr-151







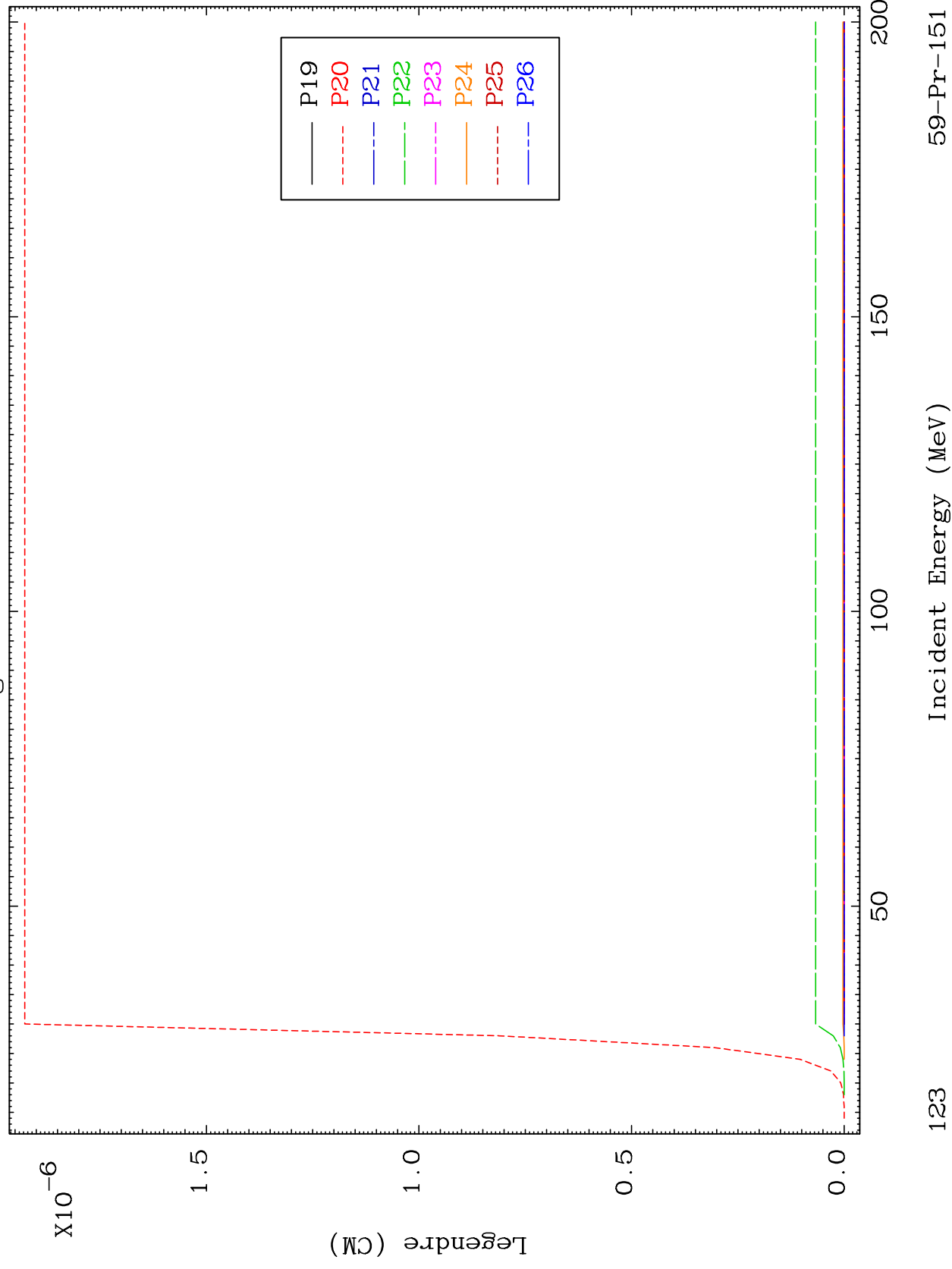




MAT 5955

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

59-Pr-151



123

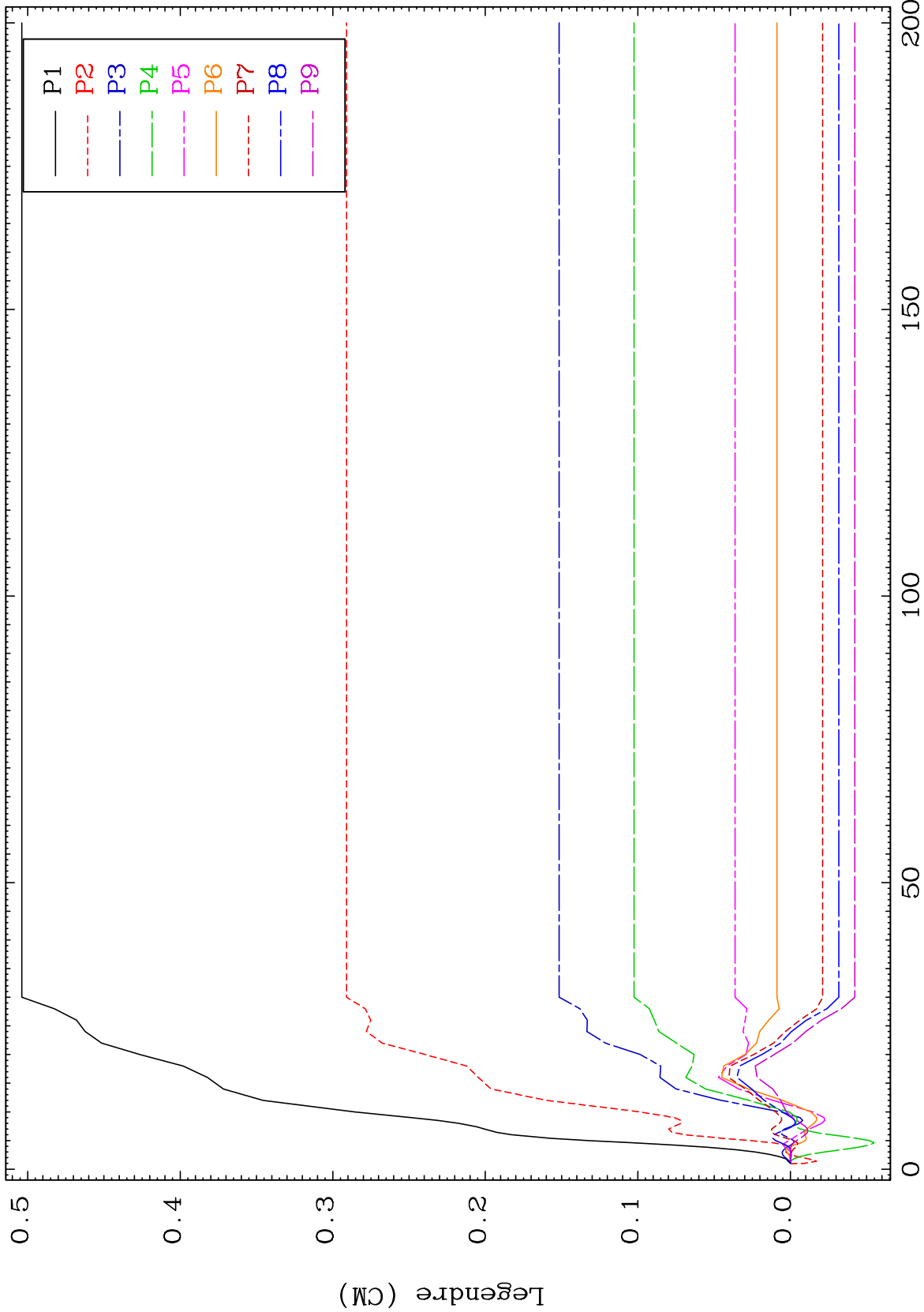
59-Pr-151

MAT 5955

MT= 77 (n,n') Level

59-Pr-151

Legendre Coefficients



124

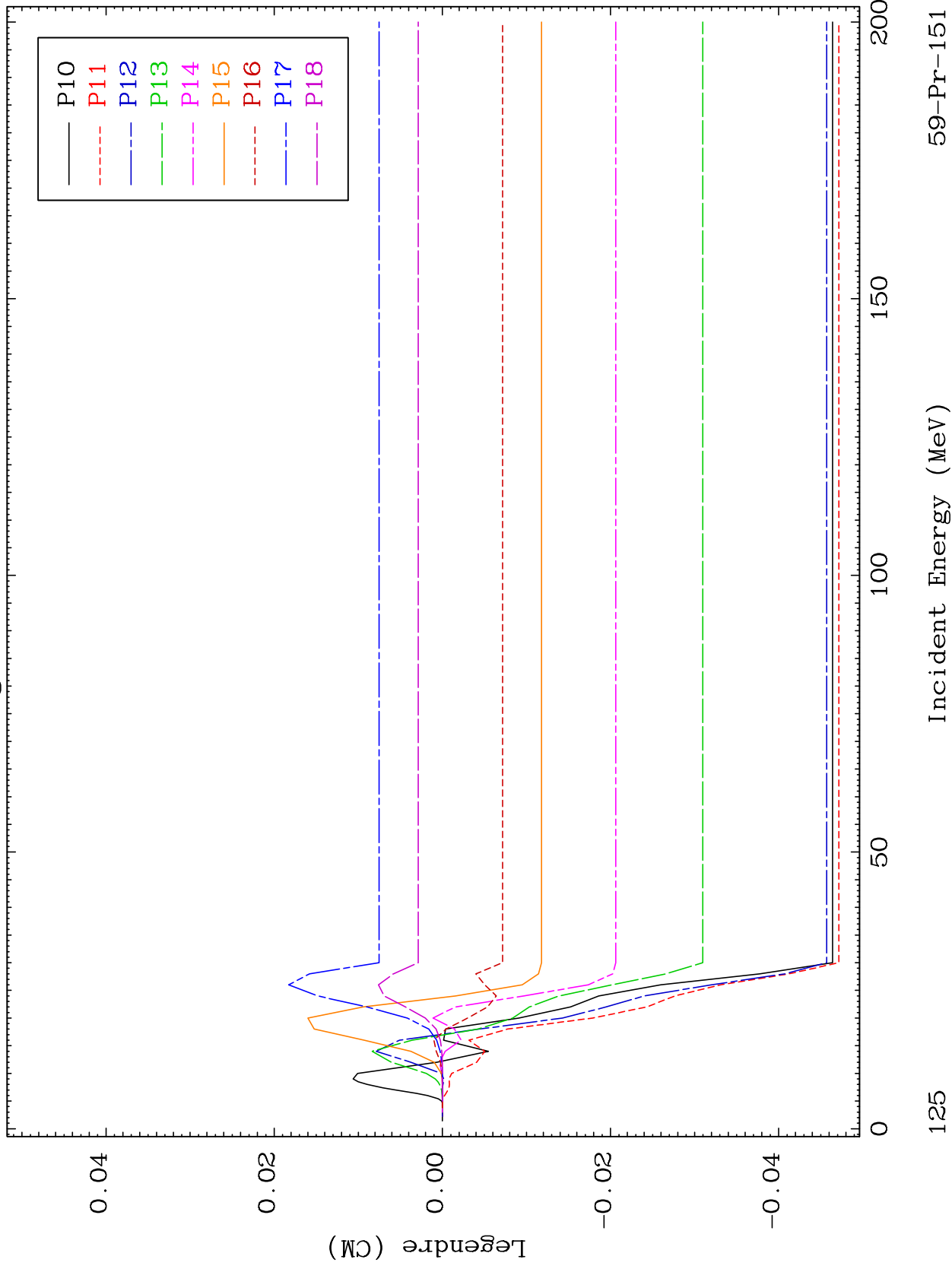
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



59-Pr-151

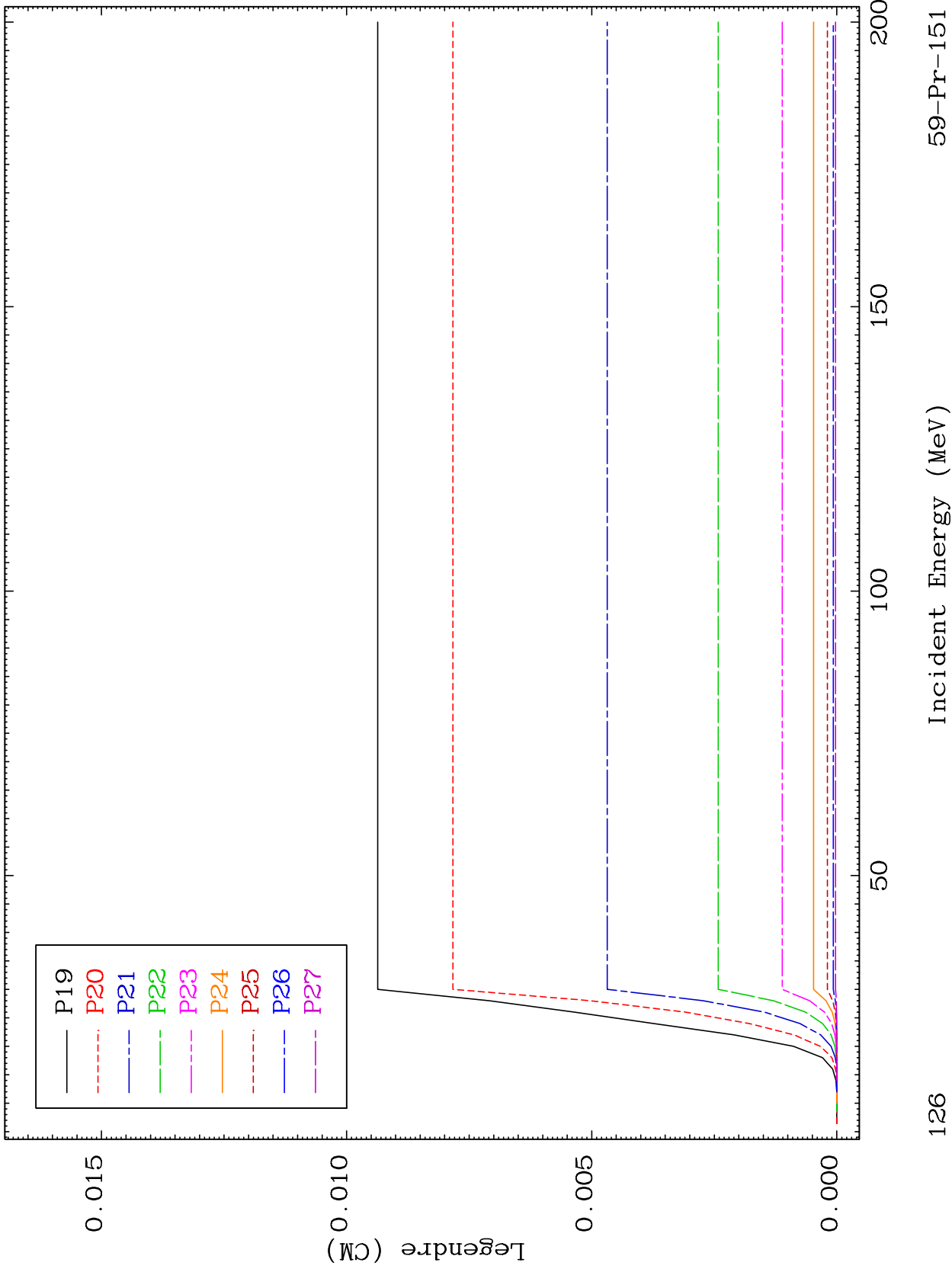
Incident Energy (MeV)

125

MAT 5955

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

59-Pr-151



126

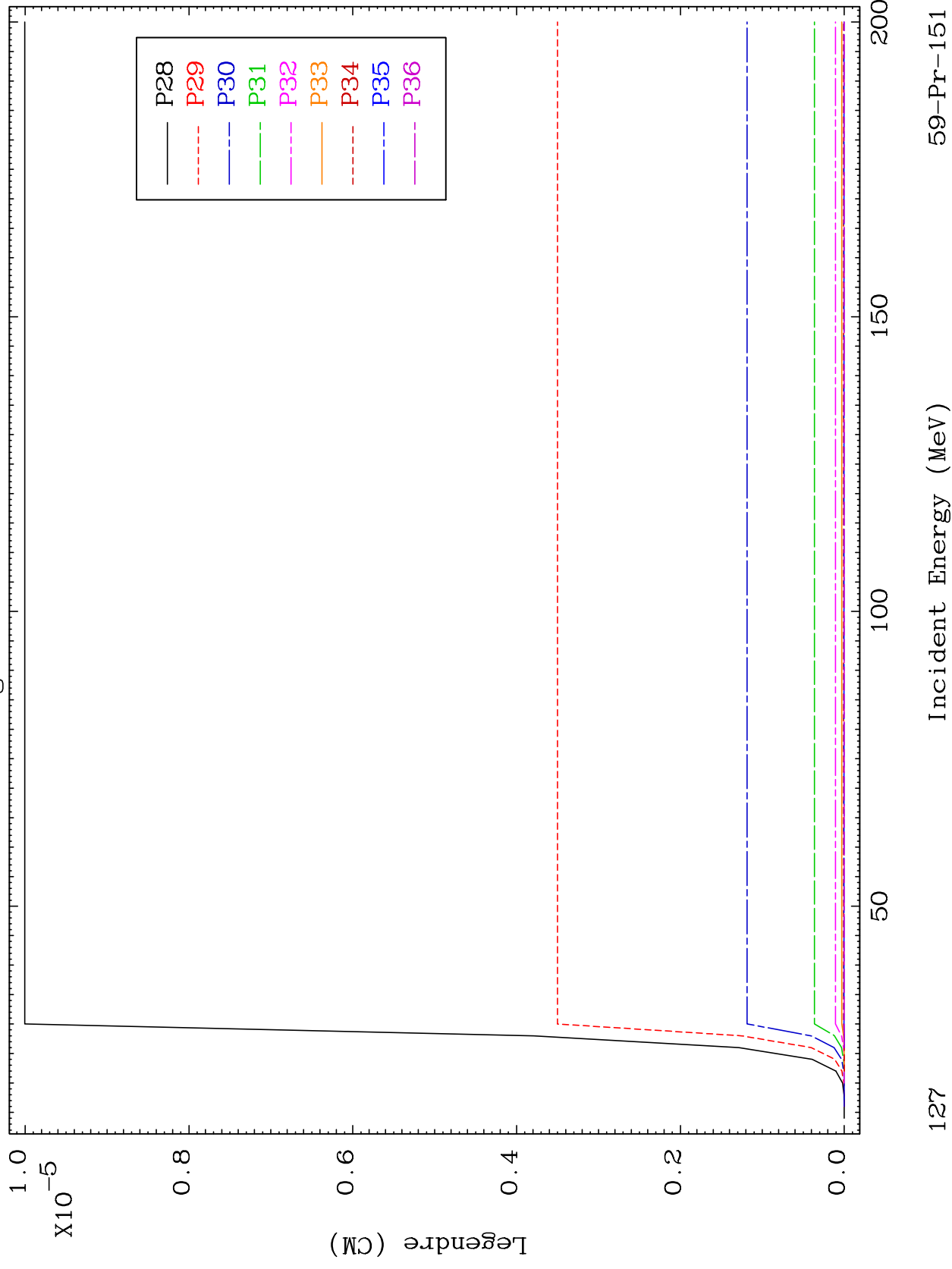
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

59-Pr-151



127

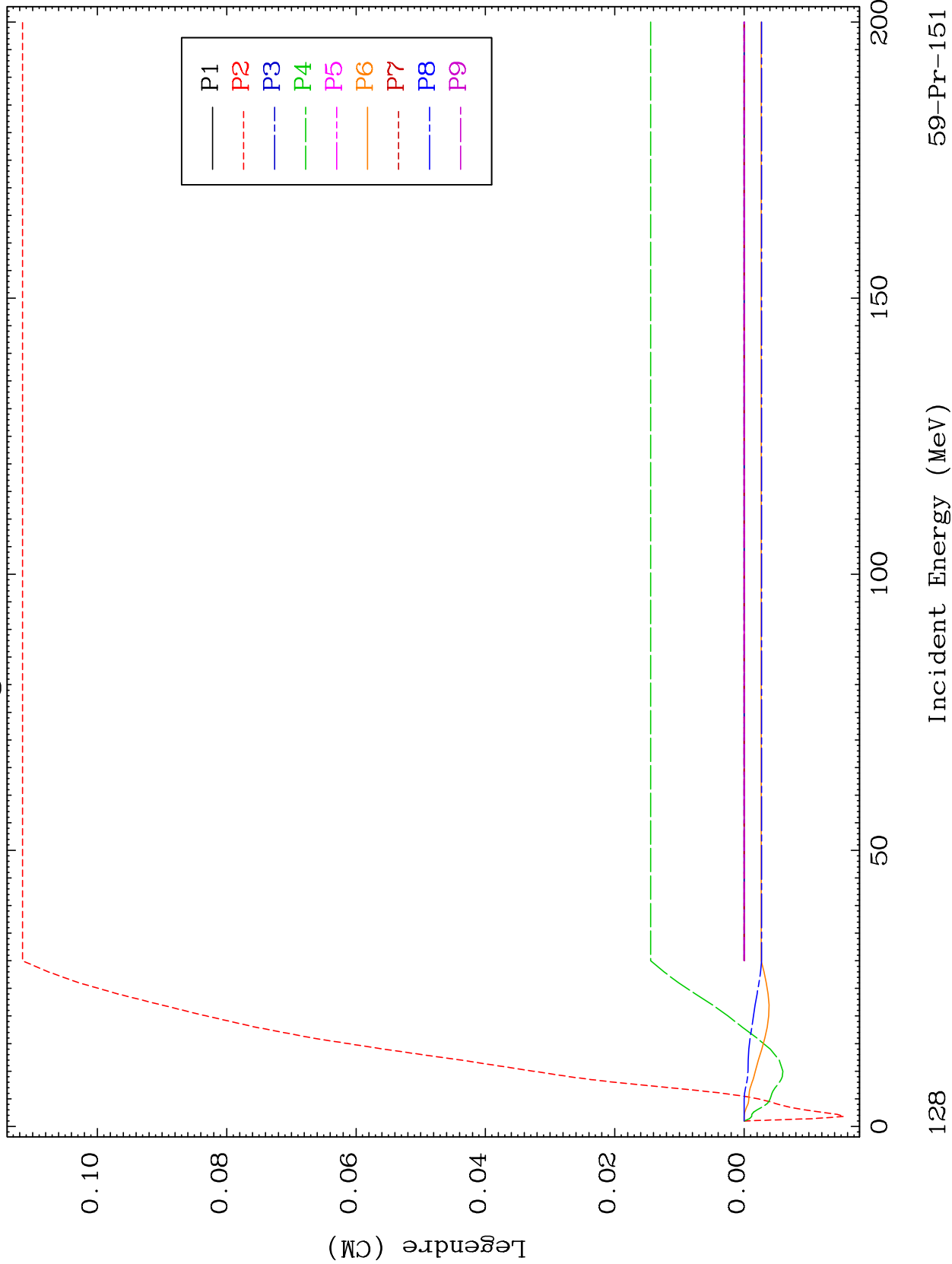
Incident Energy (MeV)

59-Pr-151

MAT 5955

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

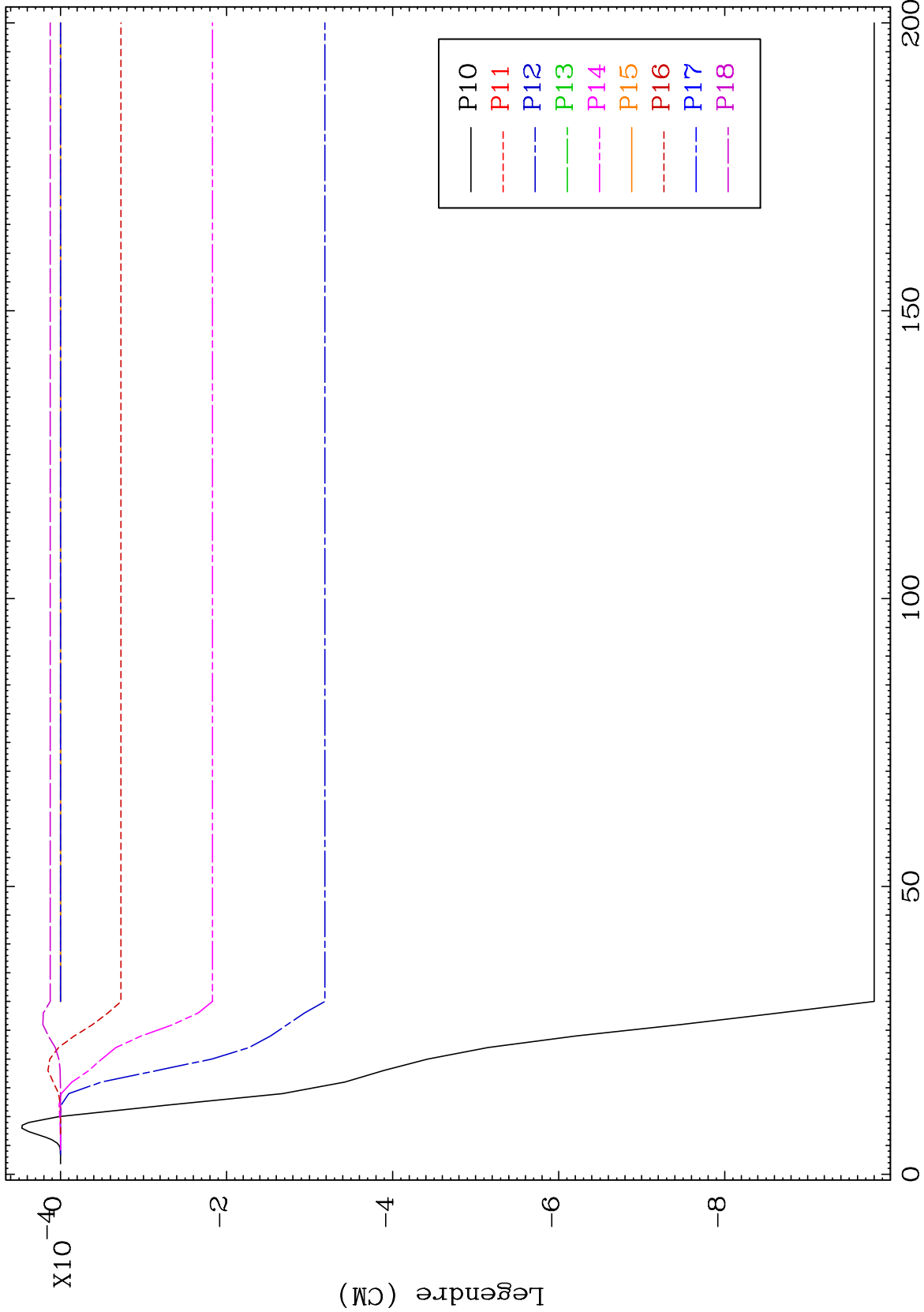
59-Pr-151

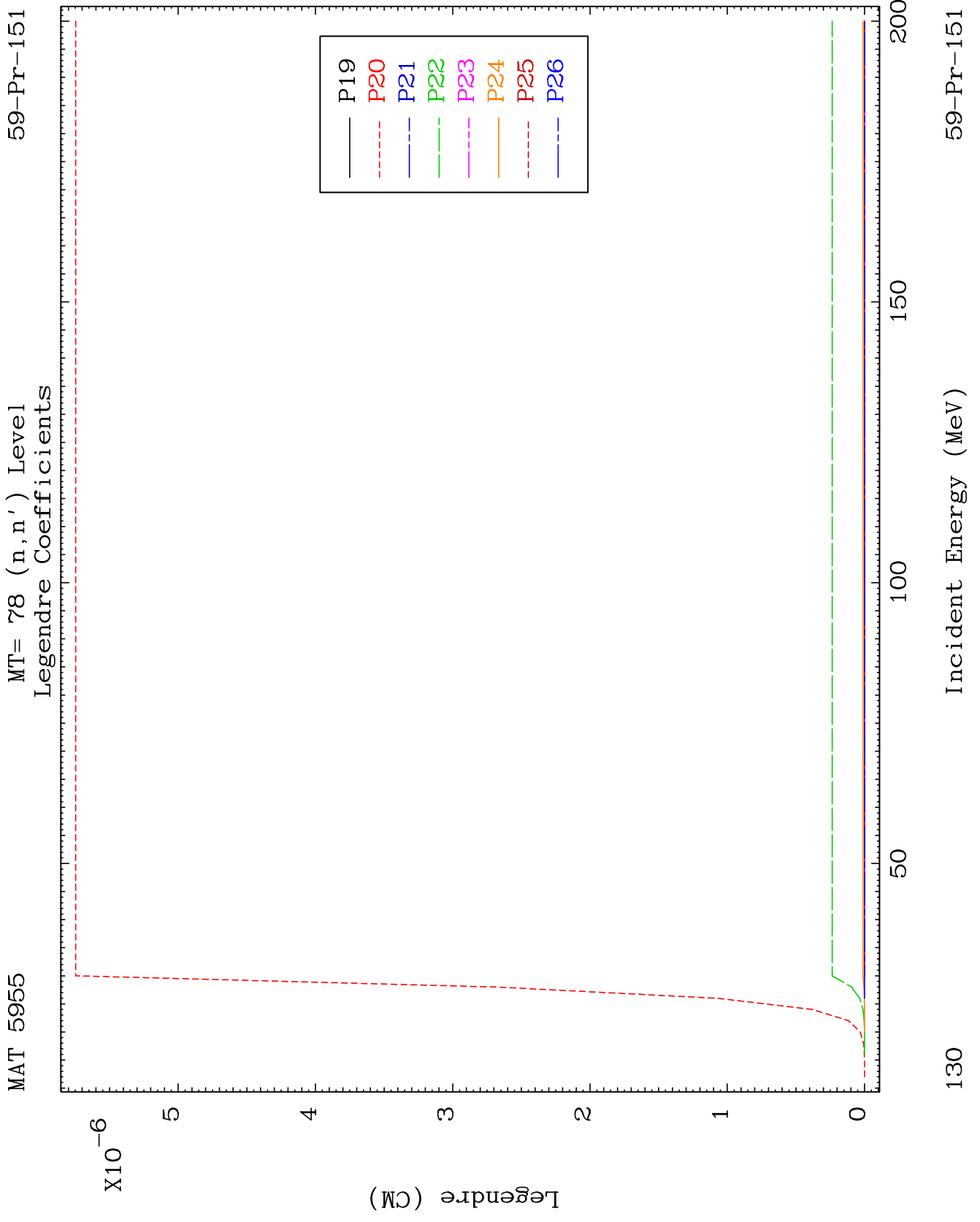


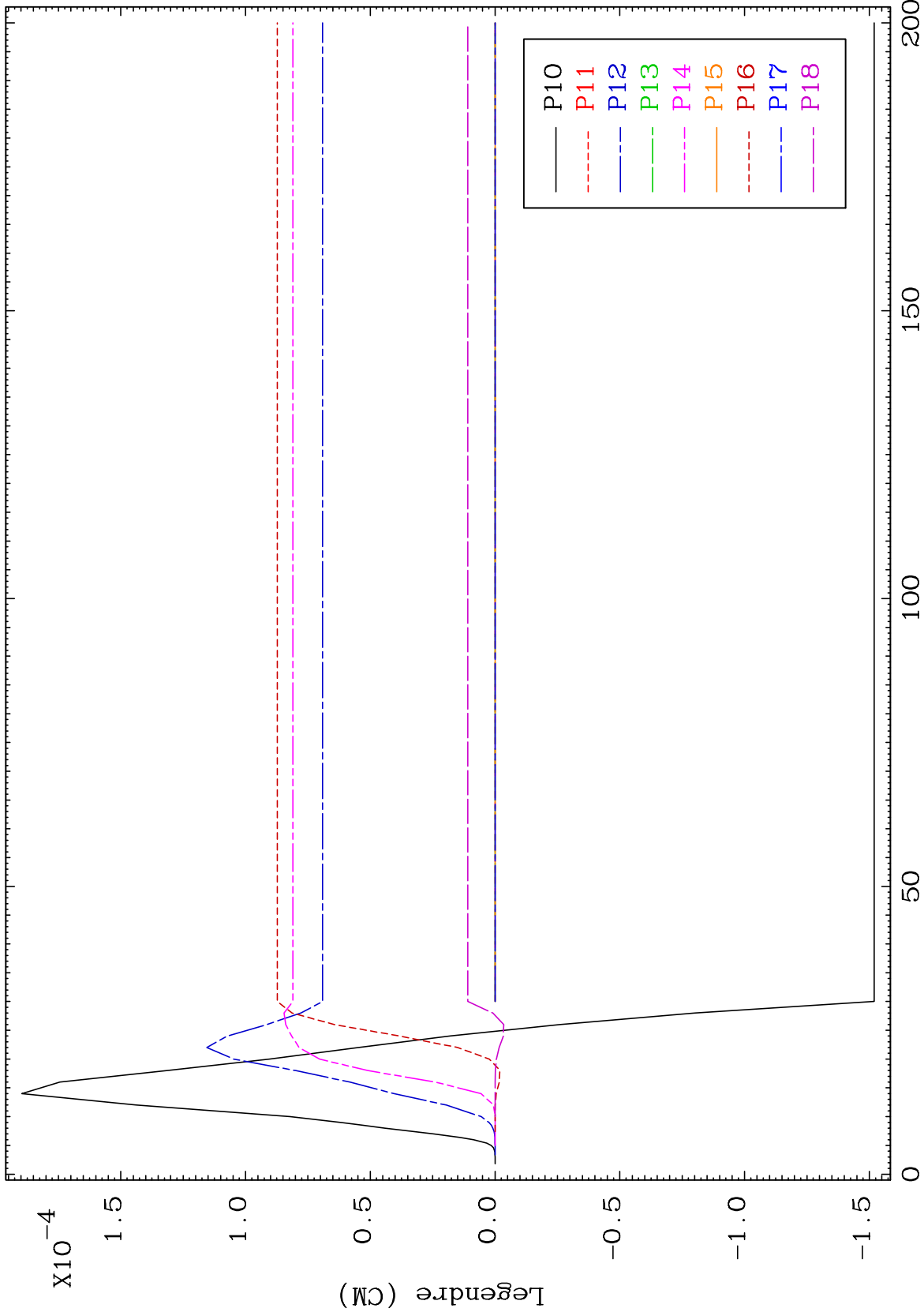
59-Pr-151

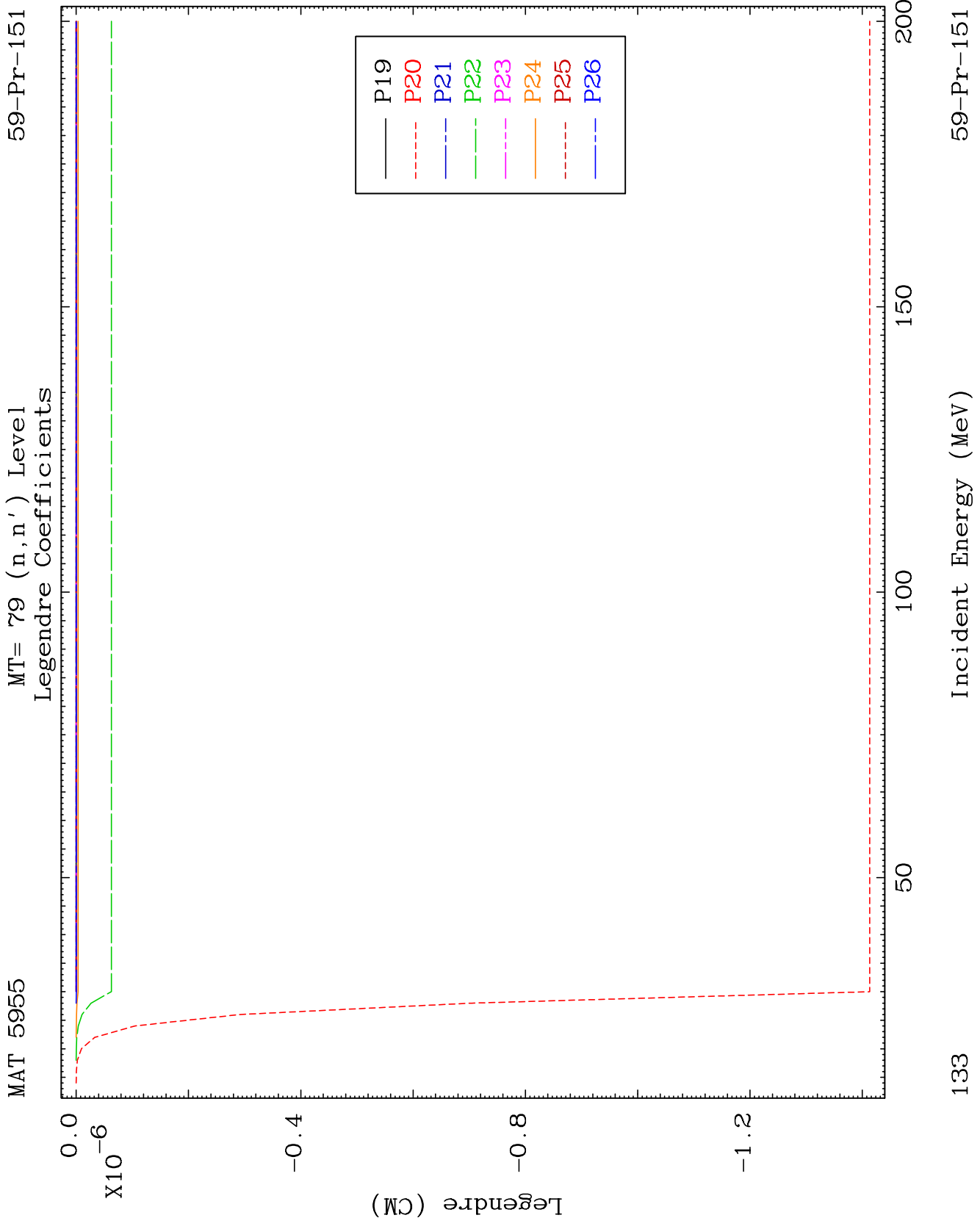
Incident Energy (MeV)

128





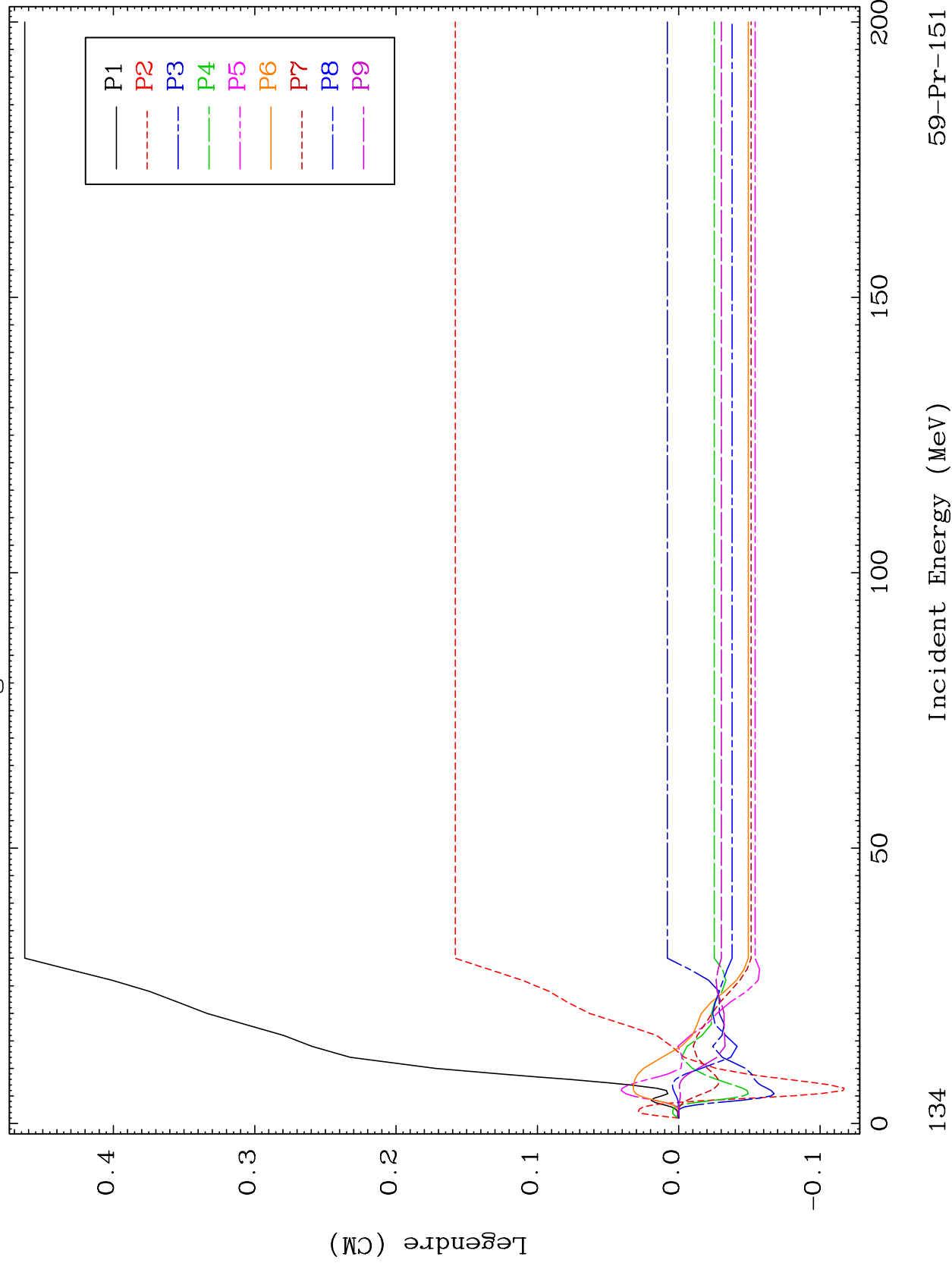




MAT 5955

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

59-Pr-151



59-Pr-151

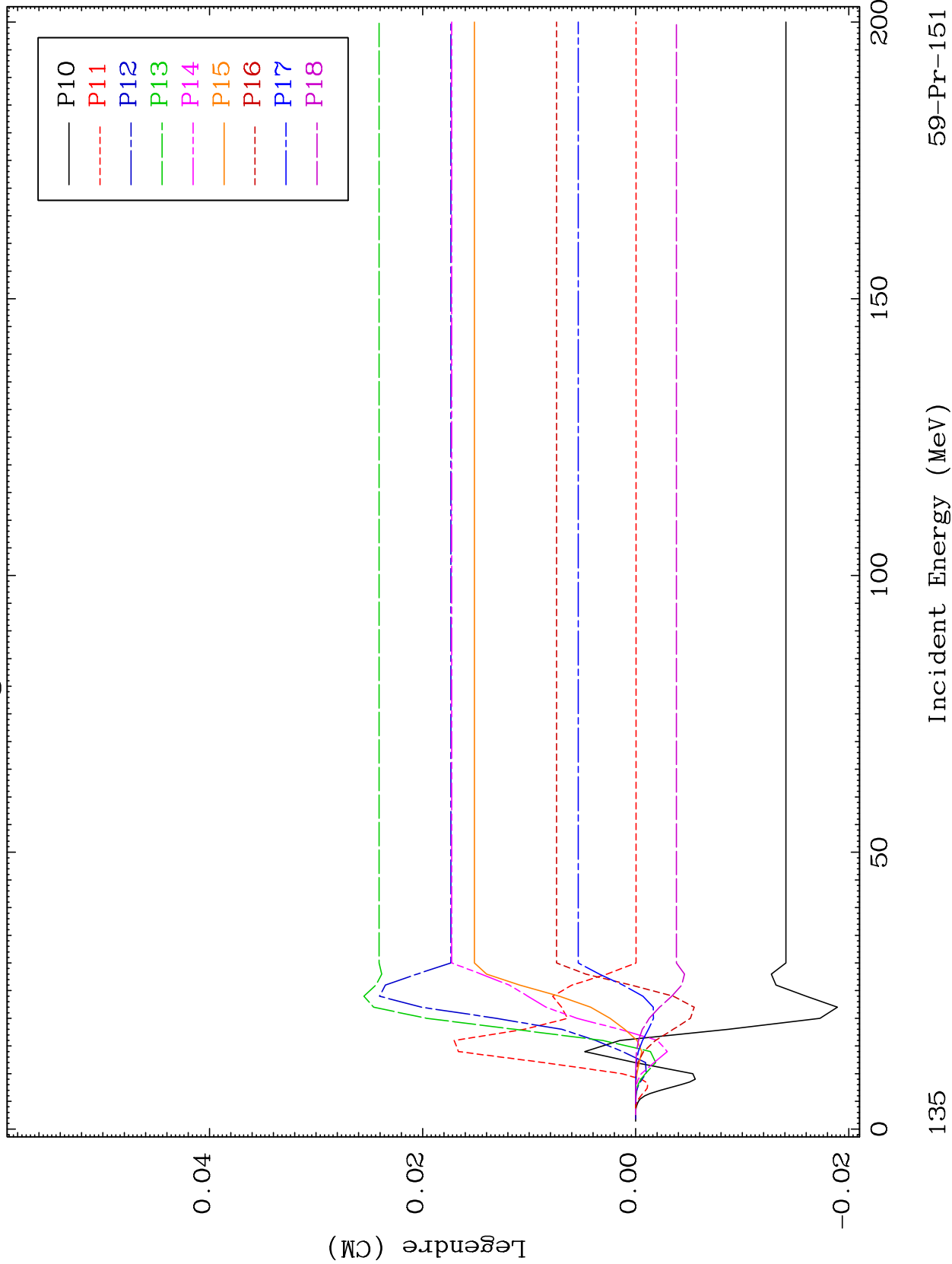
Incident Energy (MeV)

134

MAT 5955

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

59-Pr-151



59-Pr-151

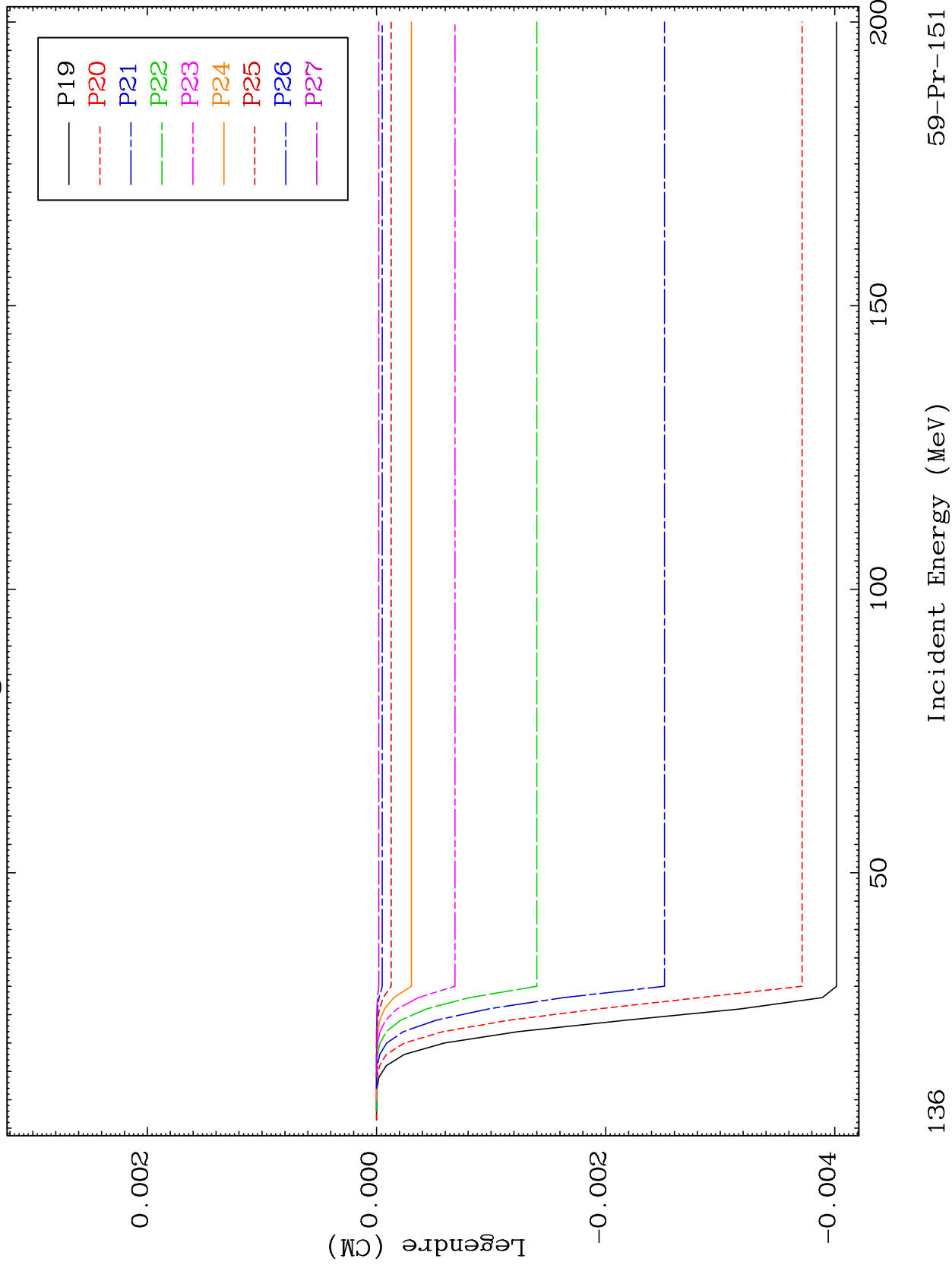
Incident Energy (MeV)

135

MAT 5955

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

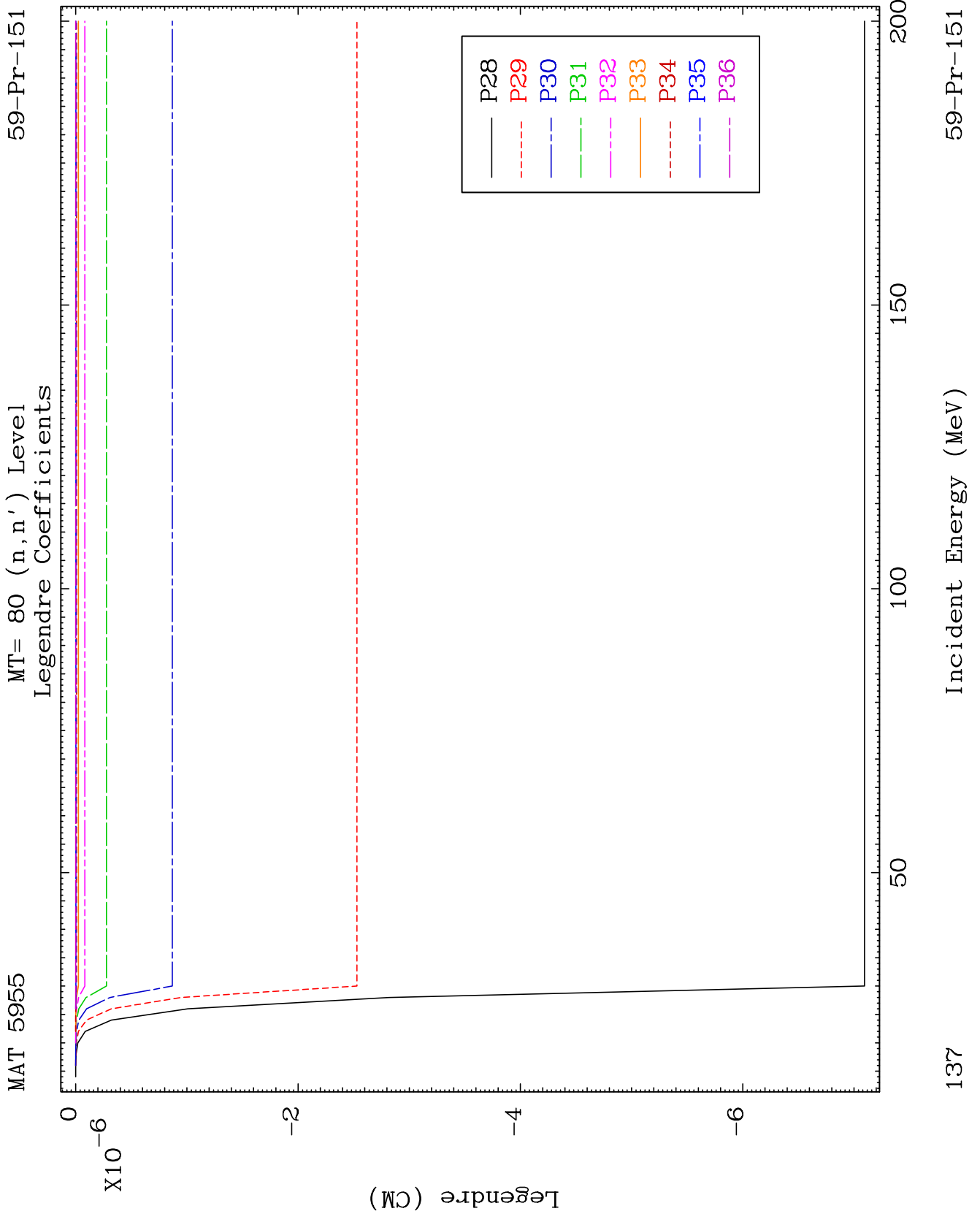
59-Pr-151



136

Incident Energy (MeV)

59-Pr-151

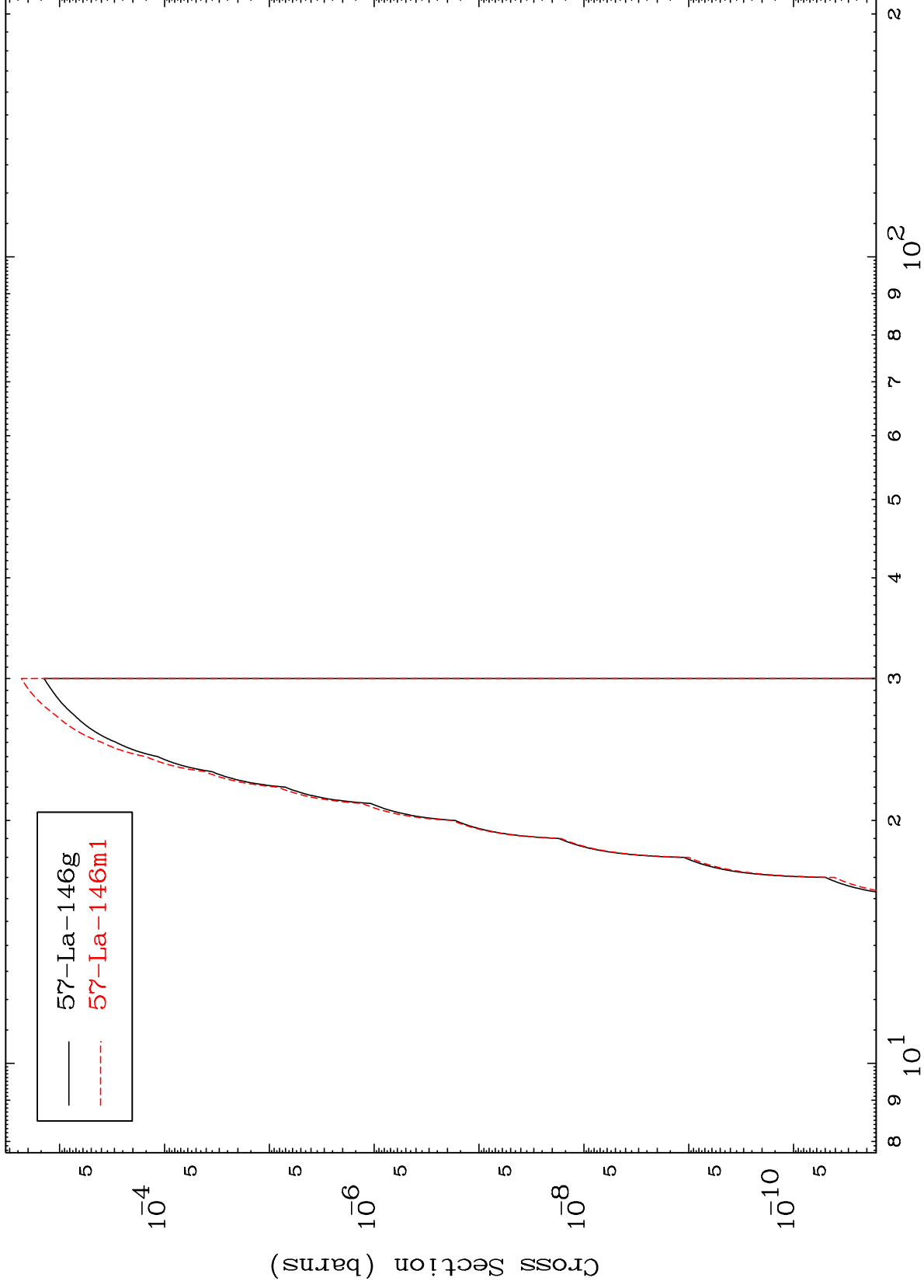


MAT 5955

(n,2n) α

59-Pr-151

Radionuclide Production Cross Section



138

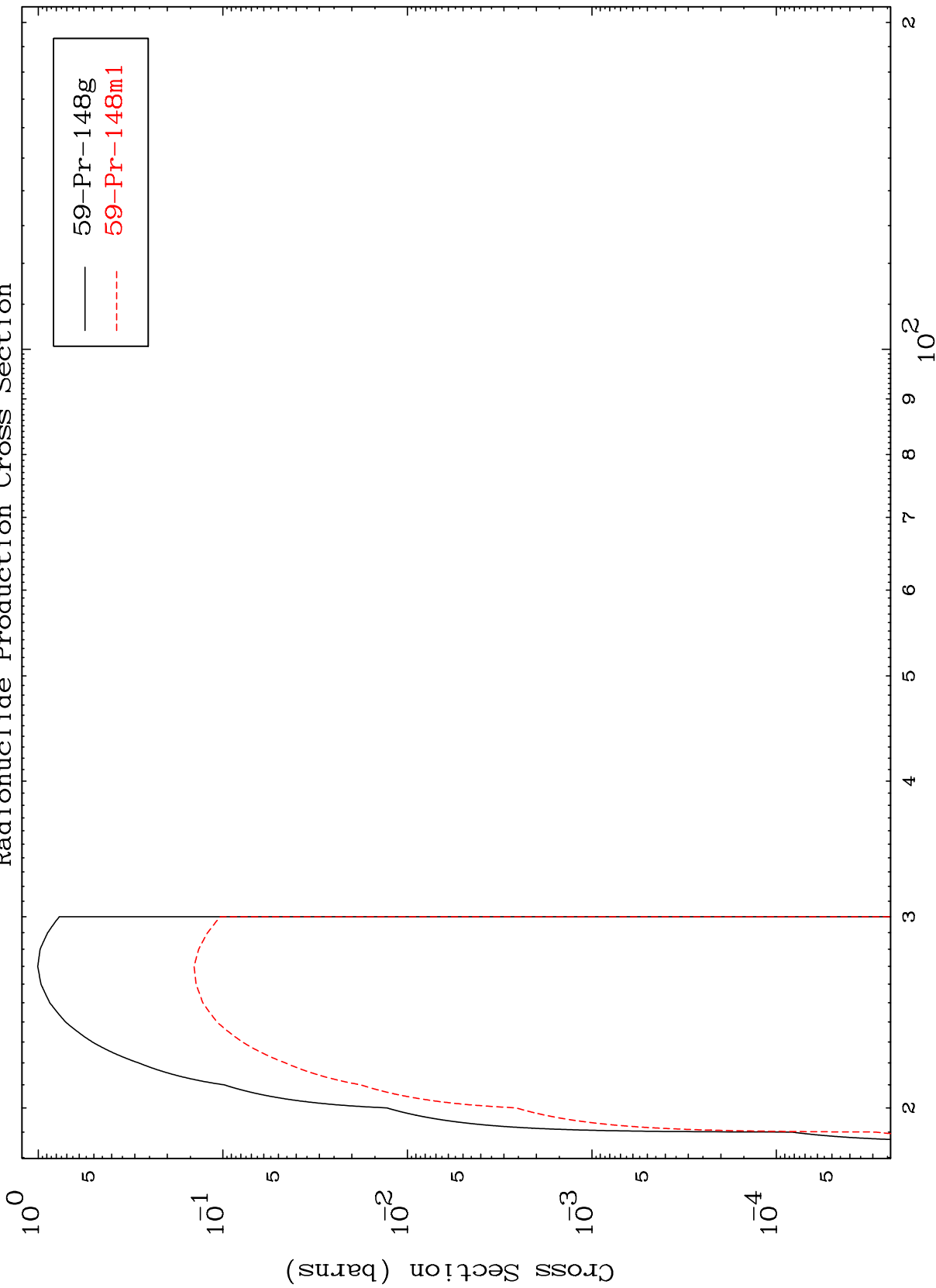
Incident Energy (MeV)

59-Pr-151

MAT 5955

59-Pr-151

(n,4n)
Radionuclide Production Cross Section



59-Pr-151

Incident Energy (MeV)

139