

Program EVALPLOT  
(Version 2018-1)

by

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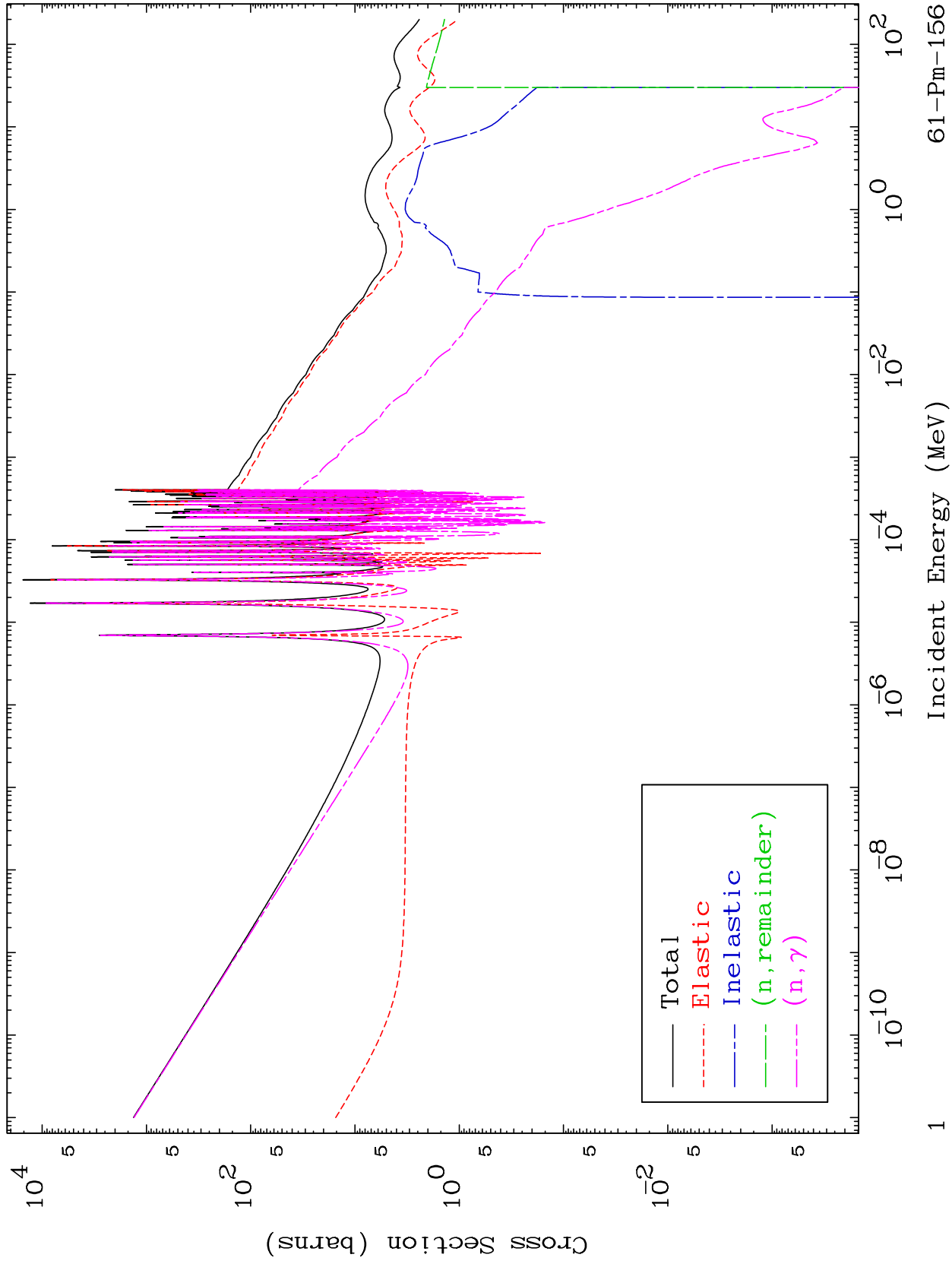
Press Mouse Button to Start

MAT 6176

Major

293 Kelvin Cross Sections

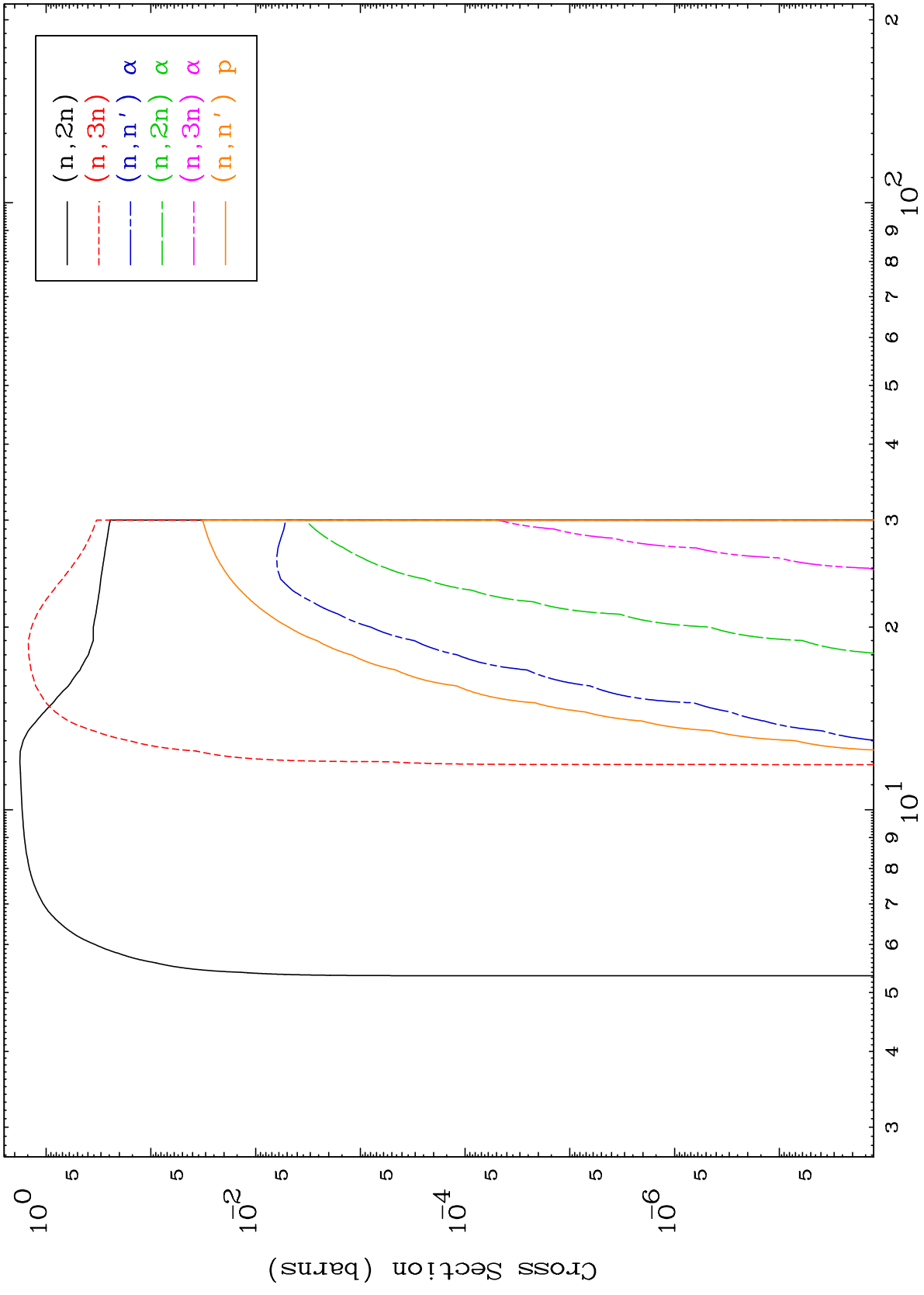
61-Pm-156



MAT 6176

### Neutron Production 293 Kelvin Cross Sections

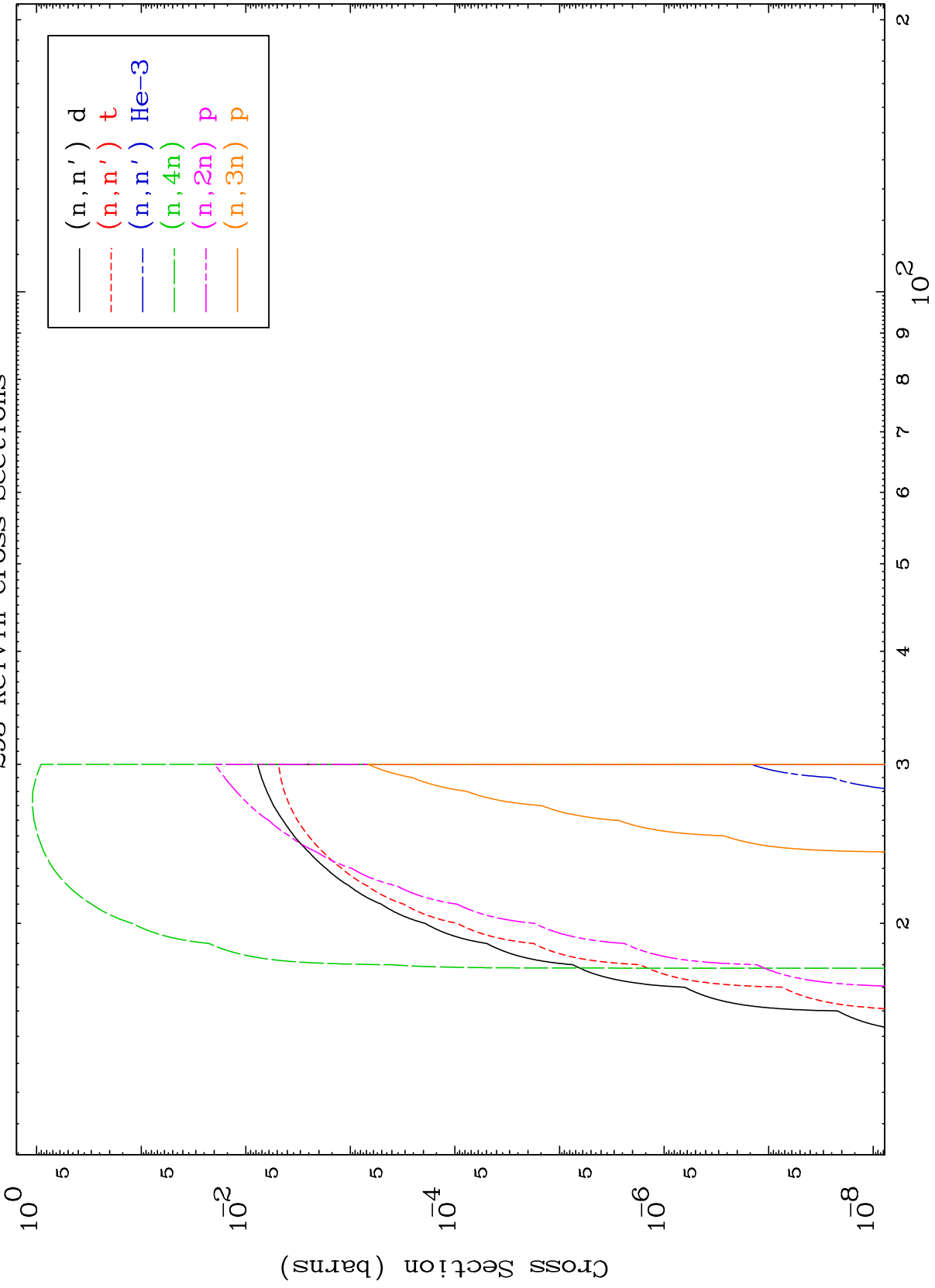
61-Pm-156

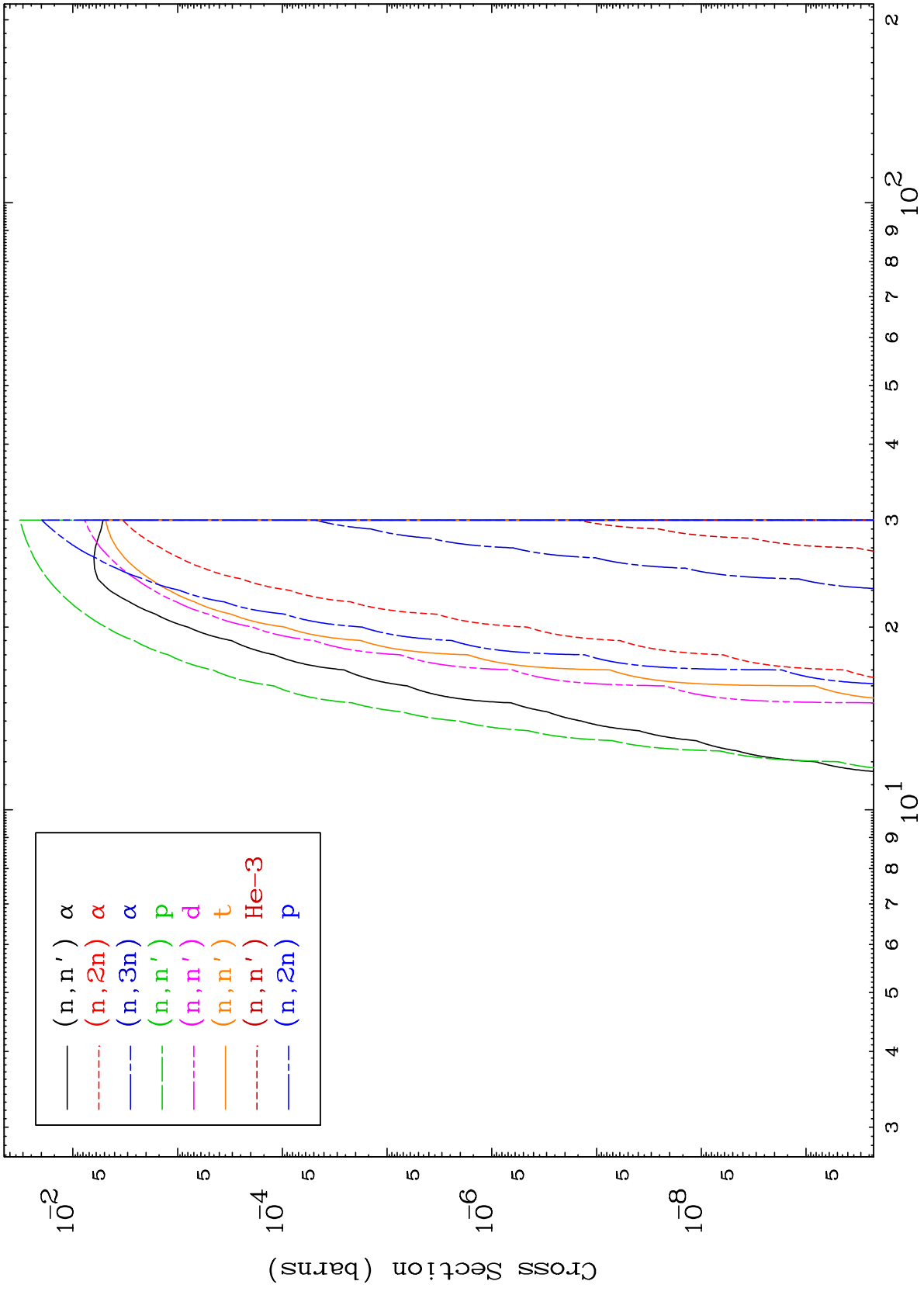


2

Incident Energy (MeV)

61-Pm-156

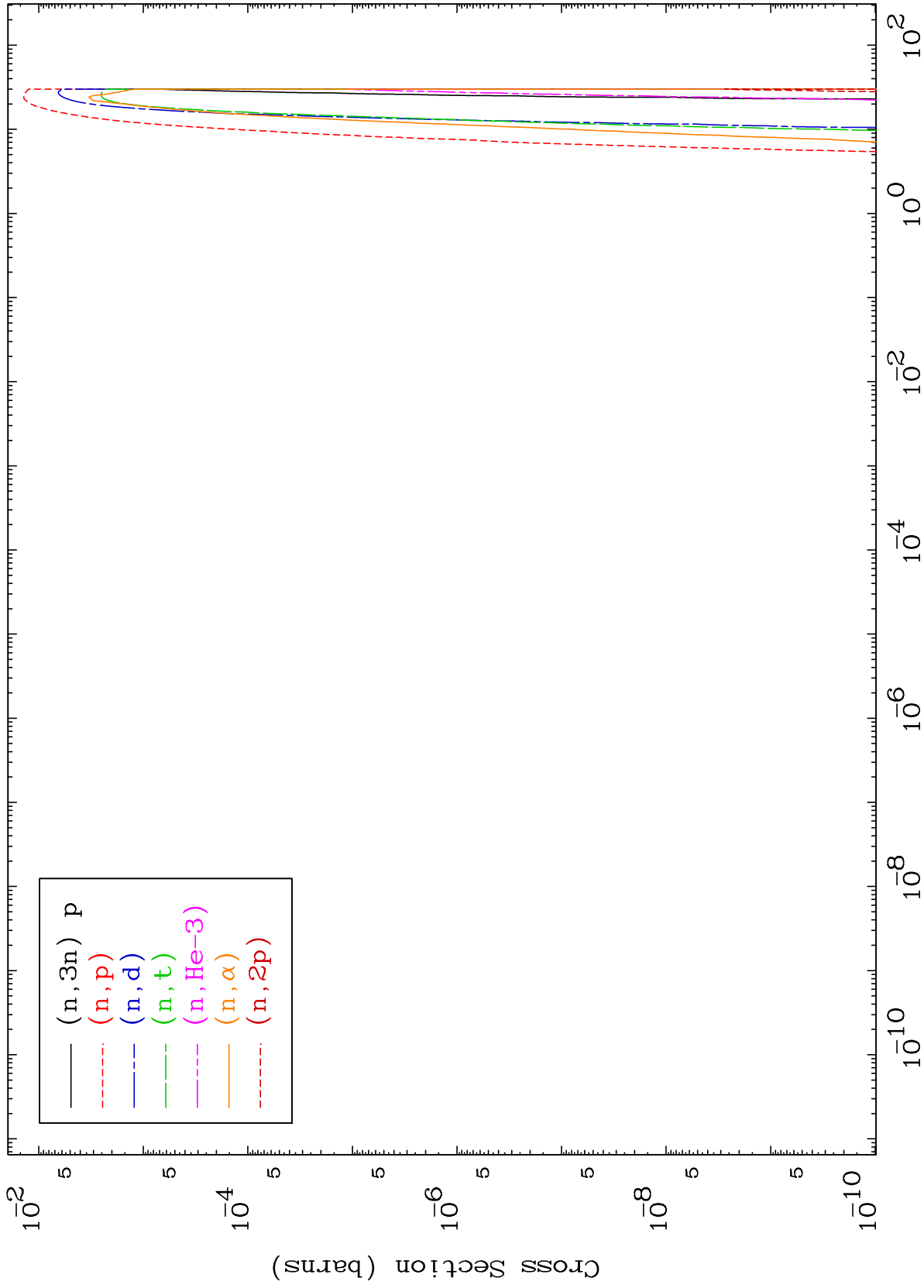




MAT 6176

Charged Particle  
293 Kelvin Cross Sections

61-Pm-156



5

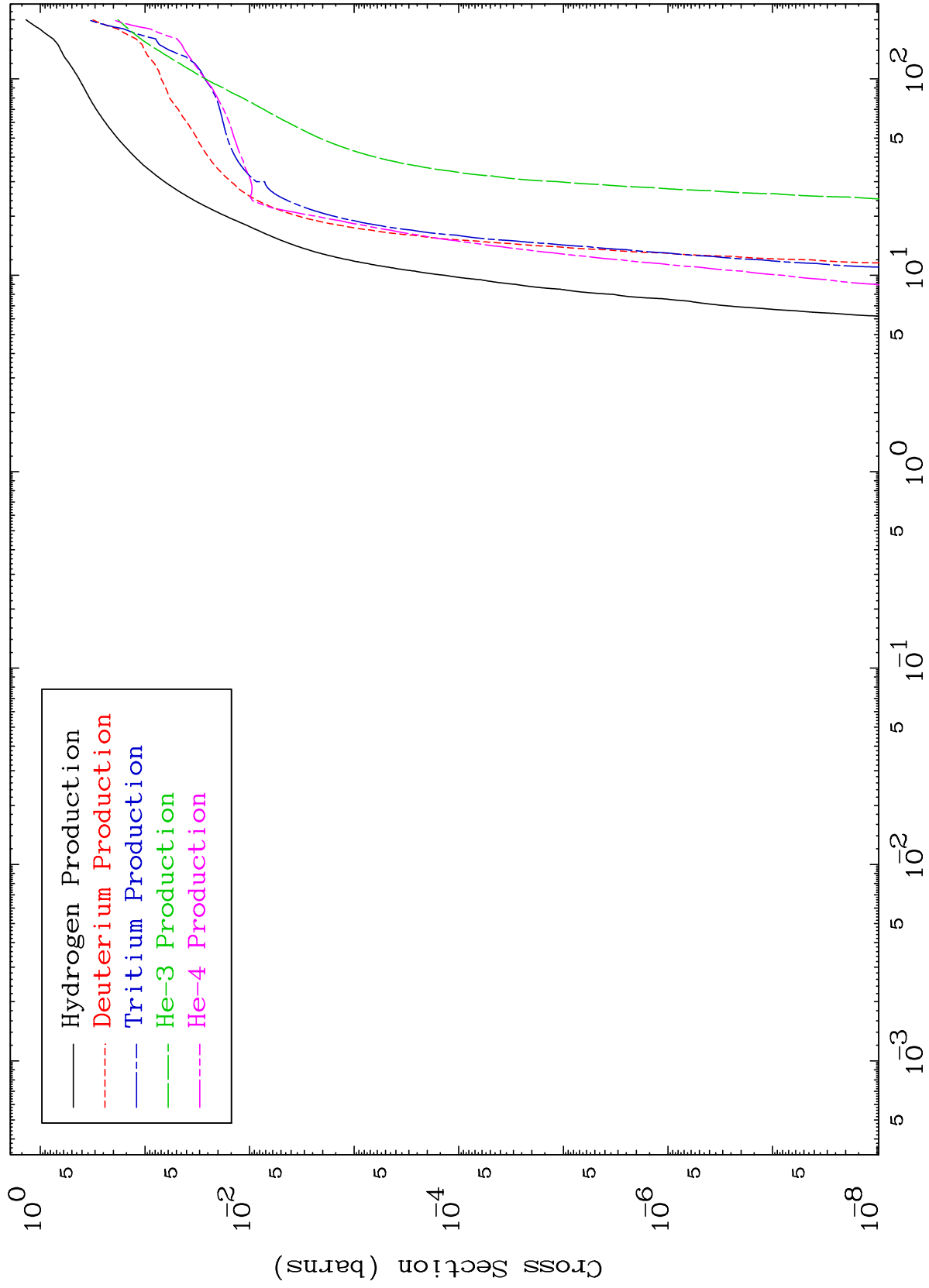
Incident Energy (MeV)

61-Pm-156

MAT 6176

Particle Production  
293 Kelvin Cross Sections

61-Pm-156



6

Incident Energy (MeV)

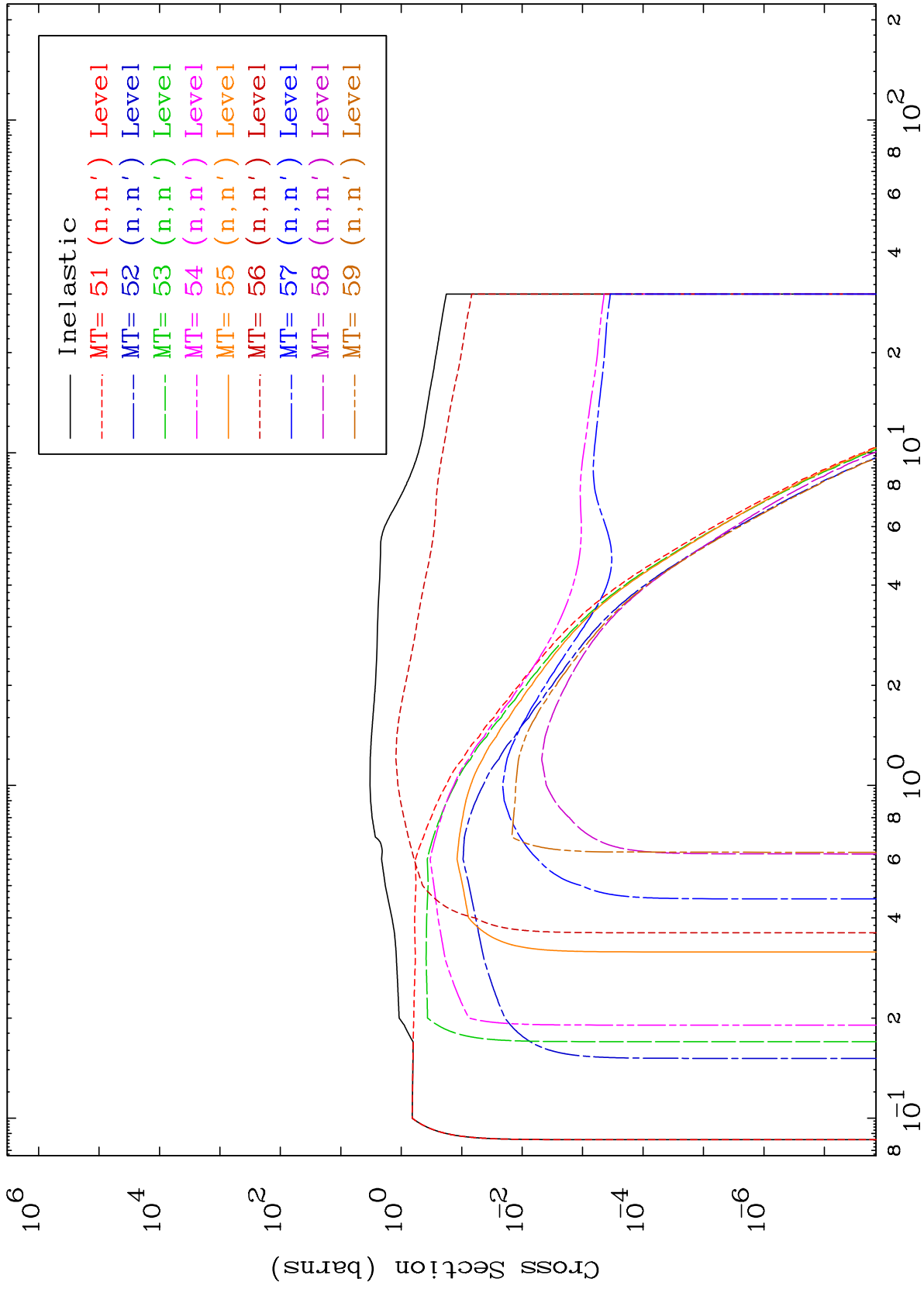
61-Pm-156

MAT 6176

(n,n') Level

61-Pm-156

293 Kelvin Cross Sections



7

Incident Energy (MeV)

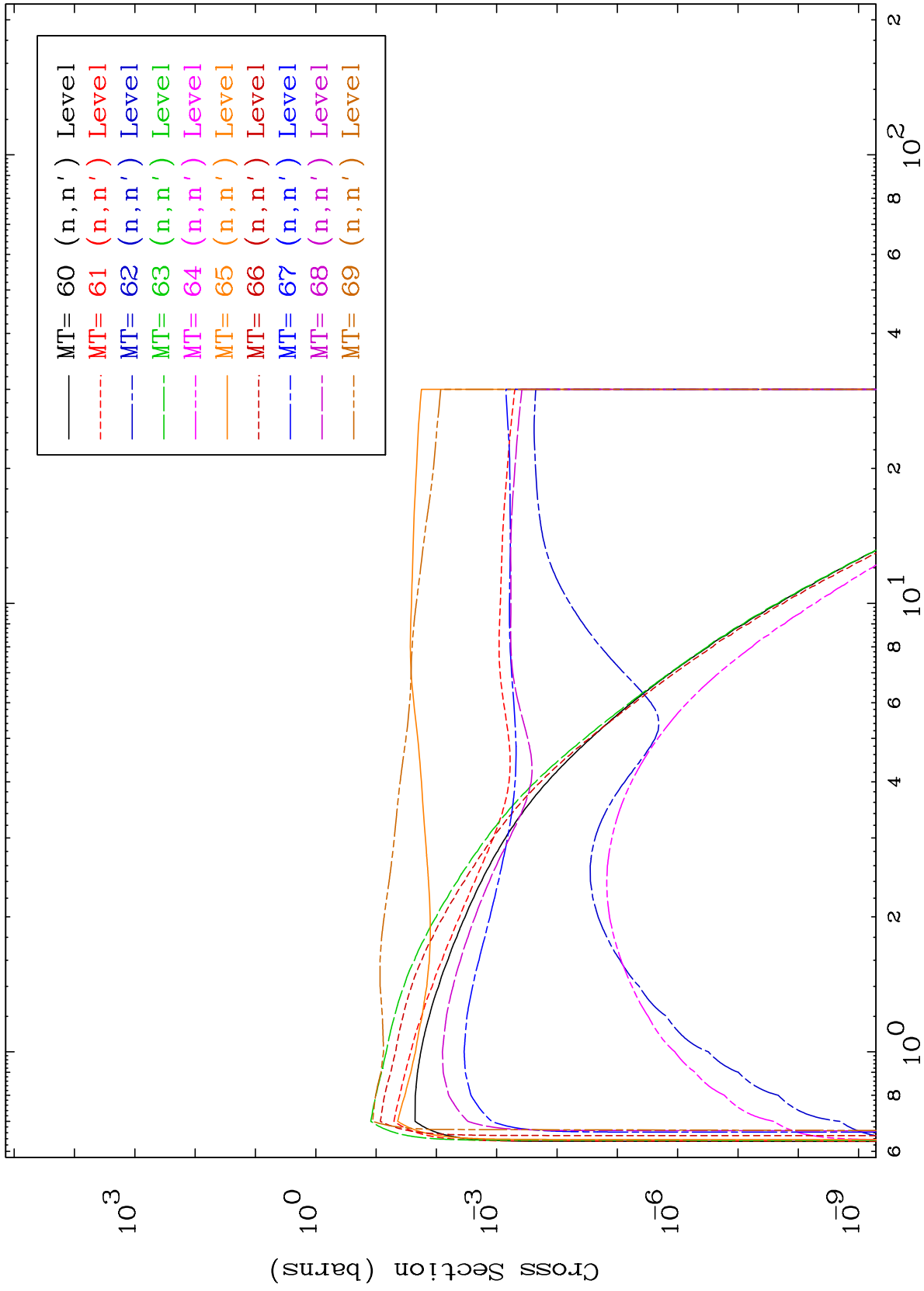
61-Pm-156



MAT 6176

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-156



8

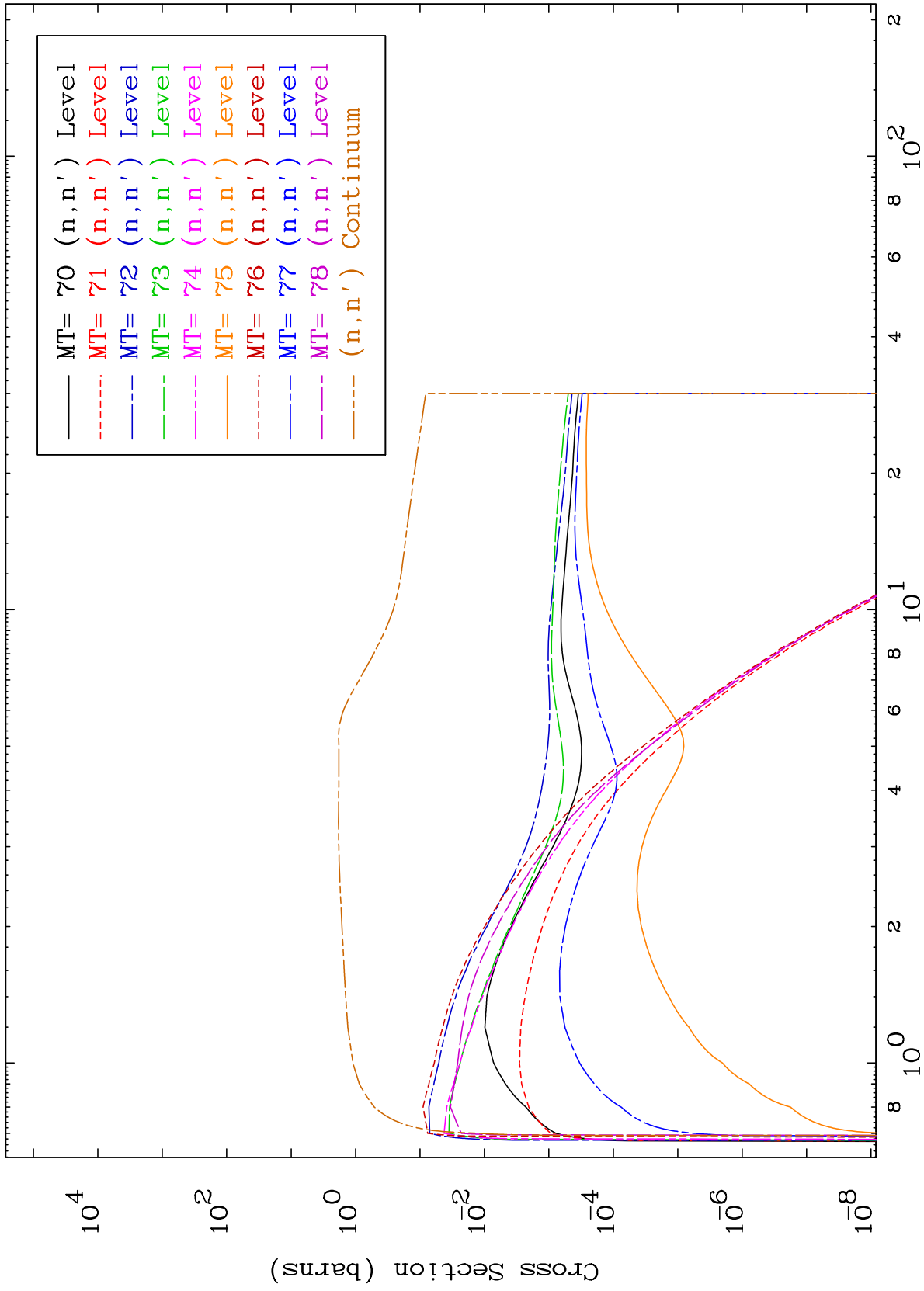
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-156



9

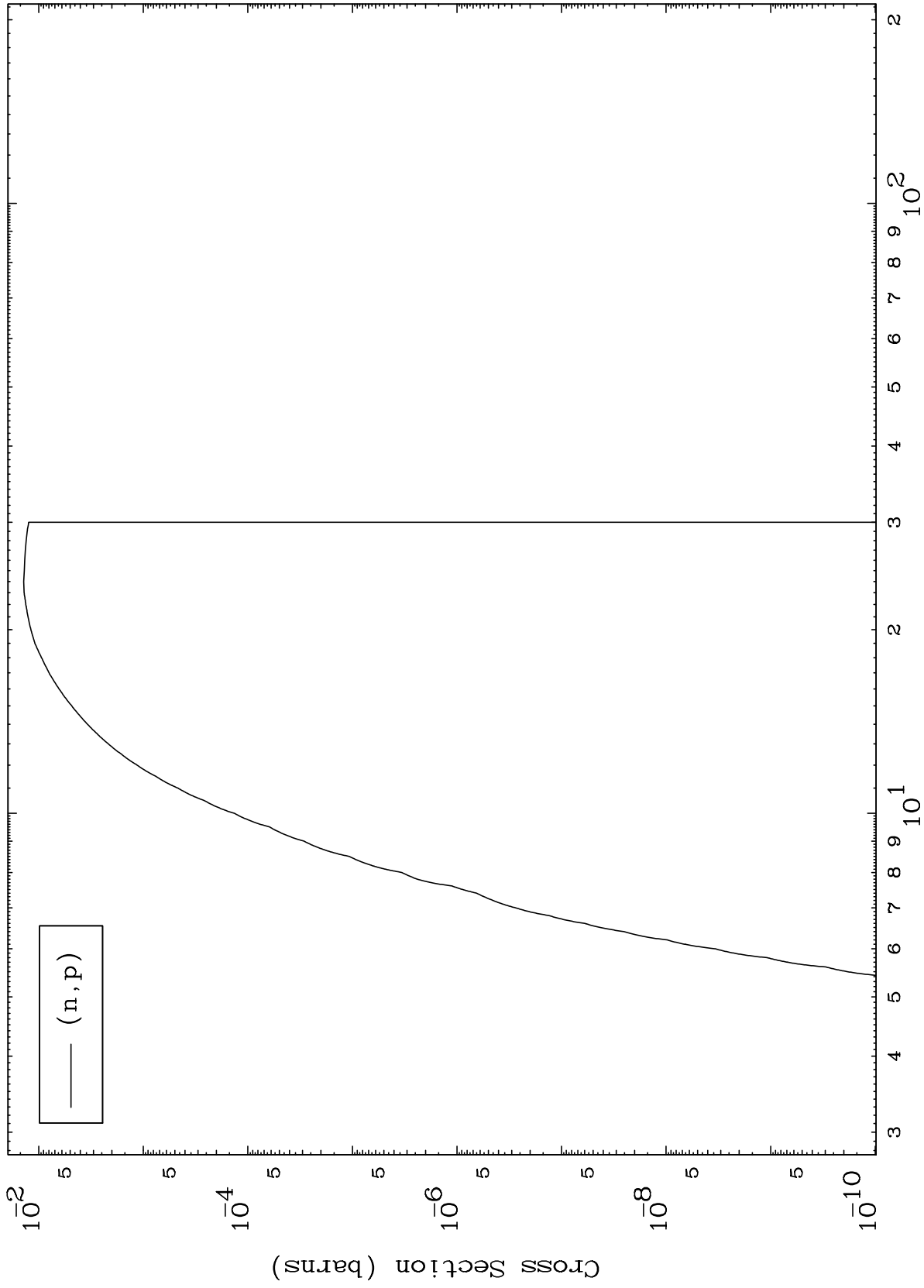
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,p) Levels  
293 Kelvin Cross Sections

61-Pm-156



10

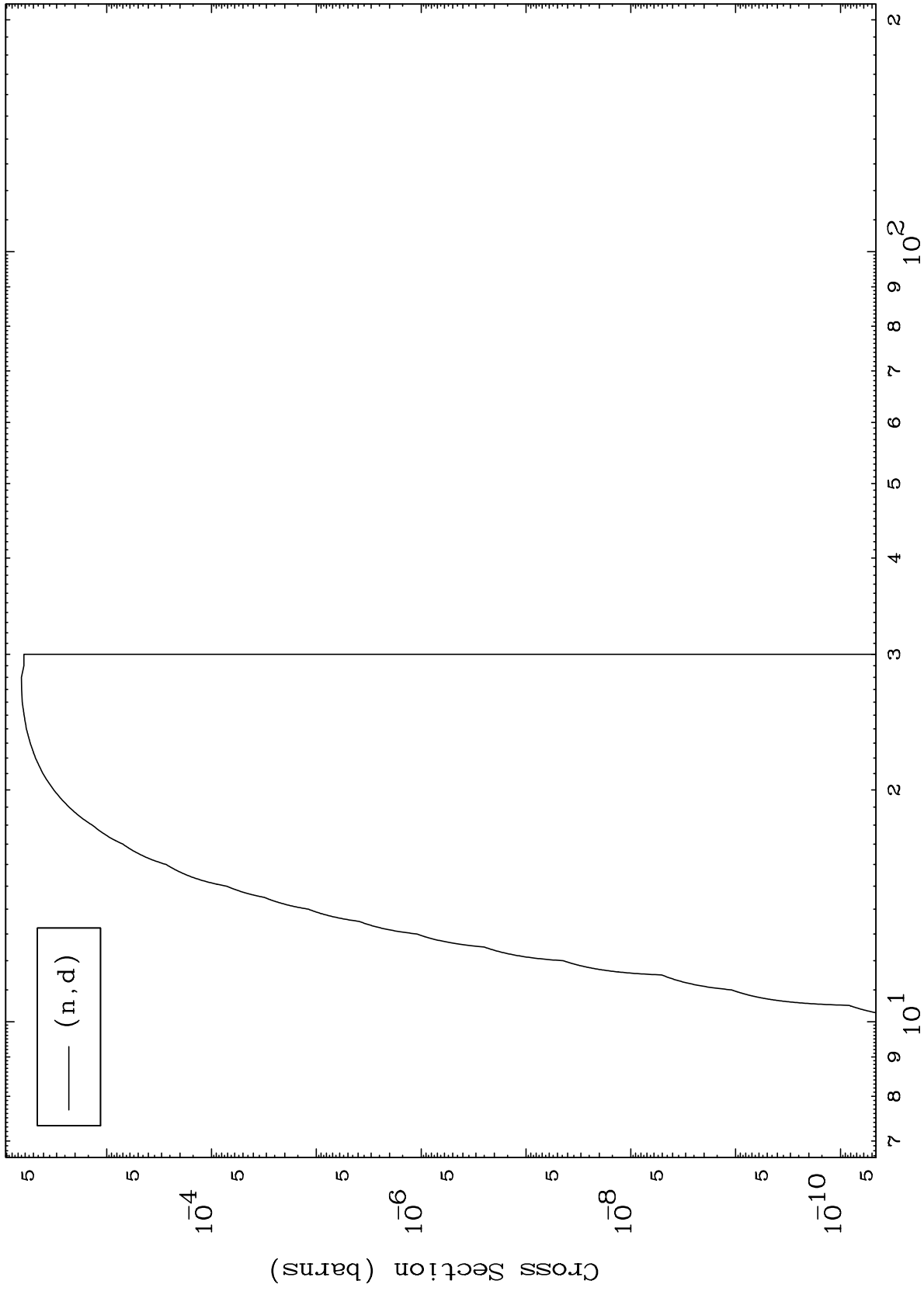
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,d) Levels  
293 Kelvin Cross Sections

61-Pm-156



11

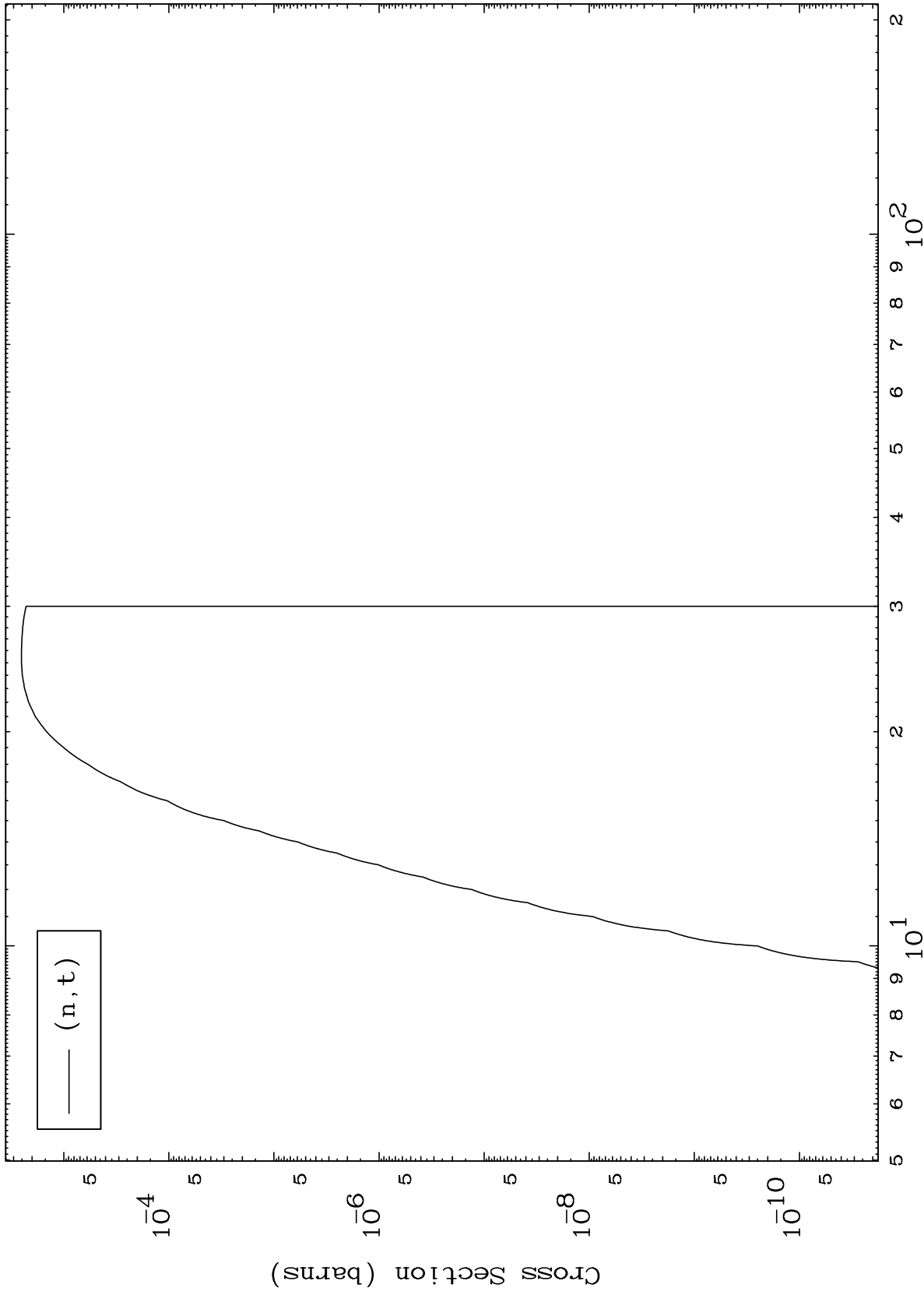
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-156



12

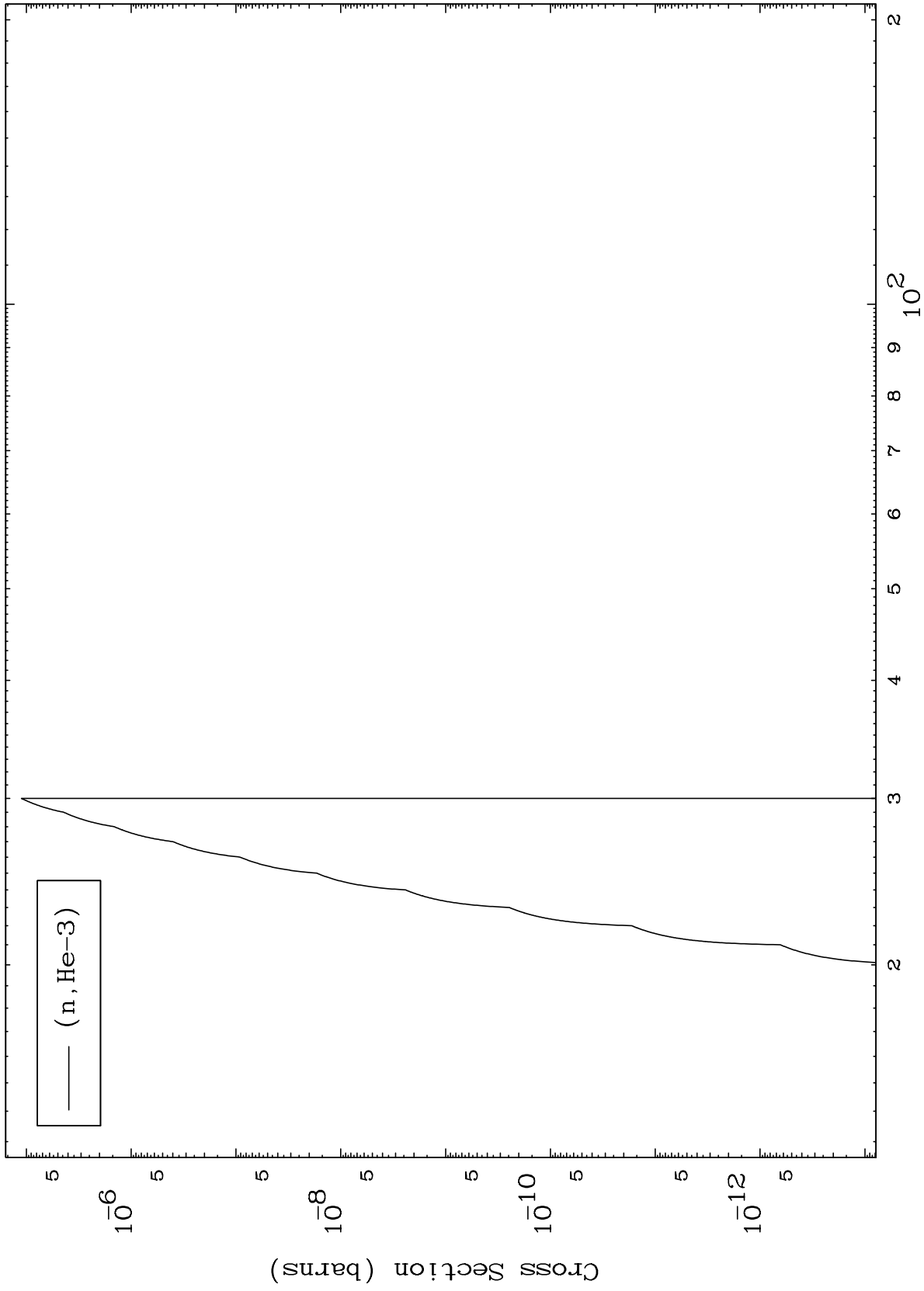
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,He3) Levels  
293 Kelvin Cross Sections

61-Pm-156



13

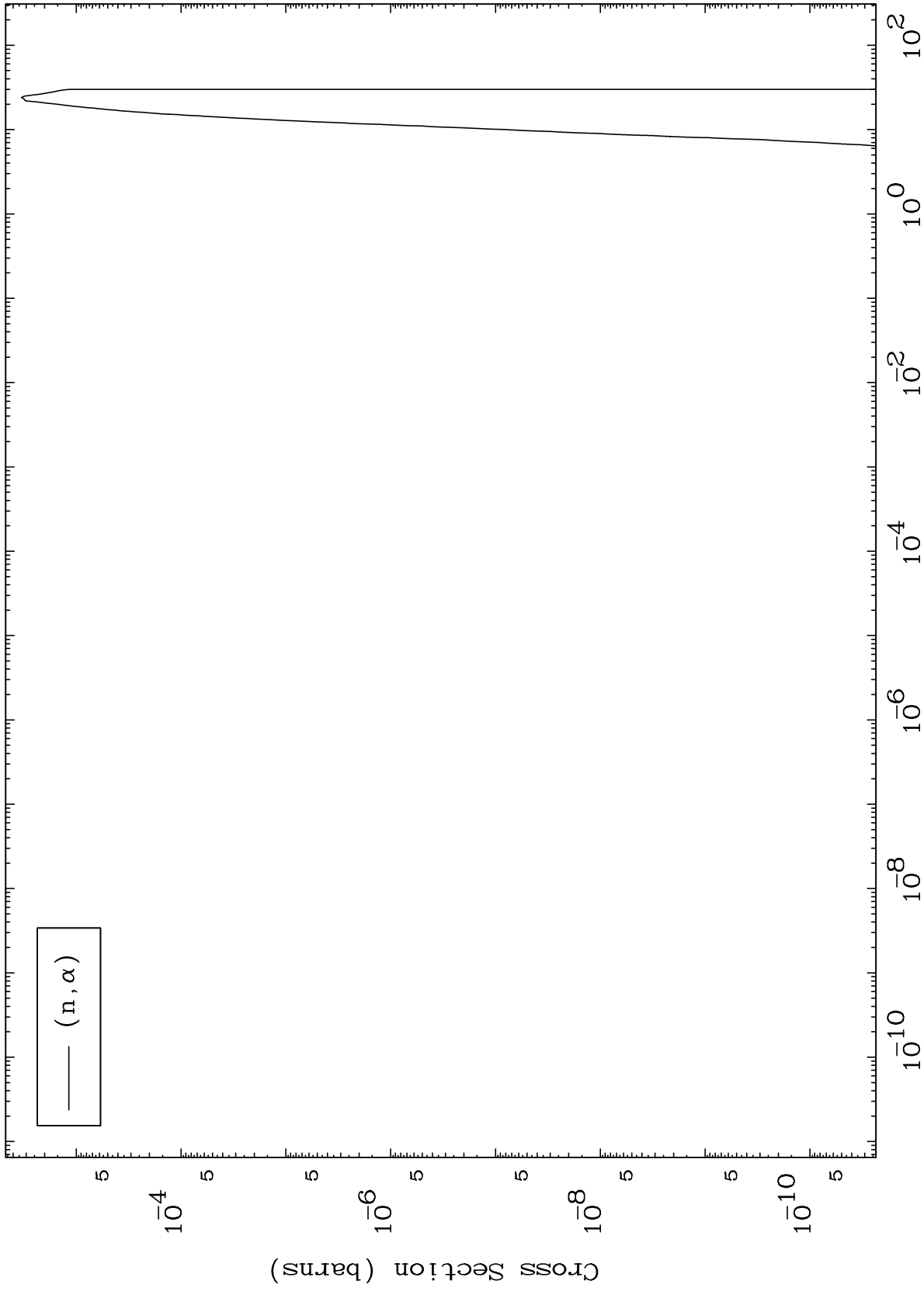
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,α) Levels  
293 Kelvin Cross Sections

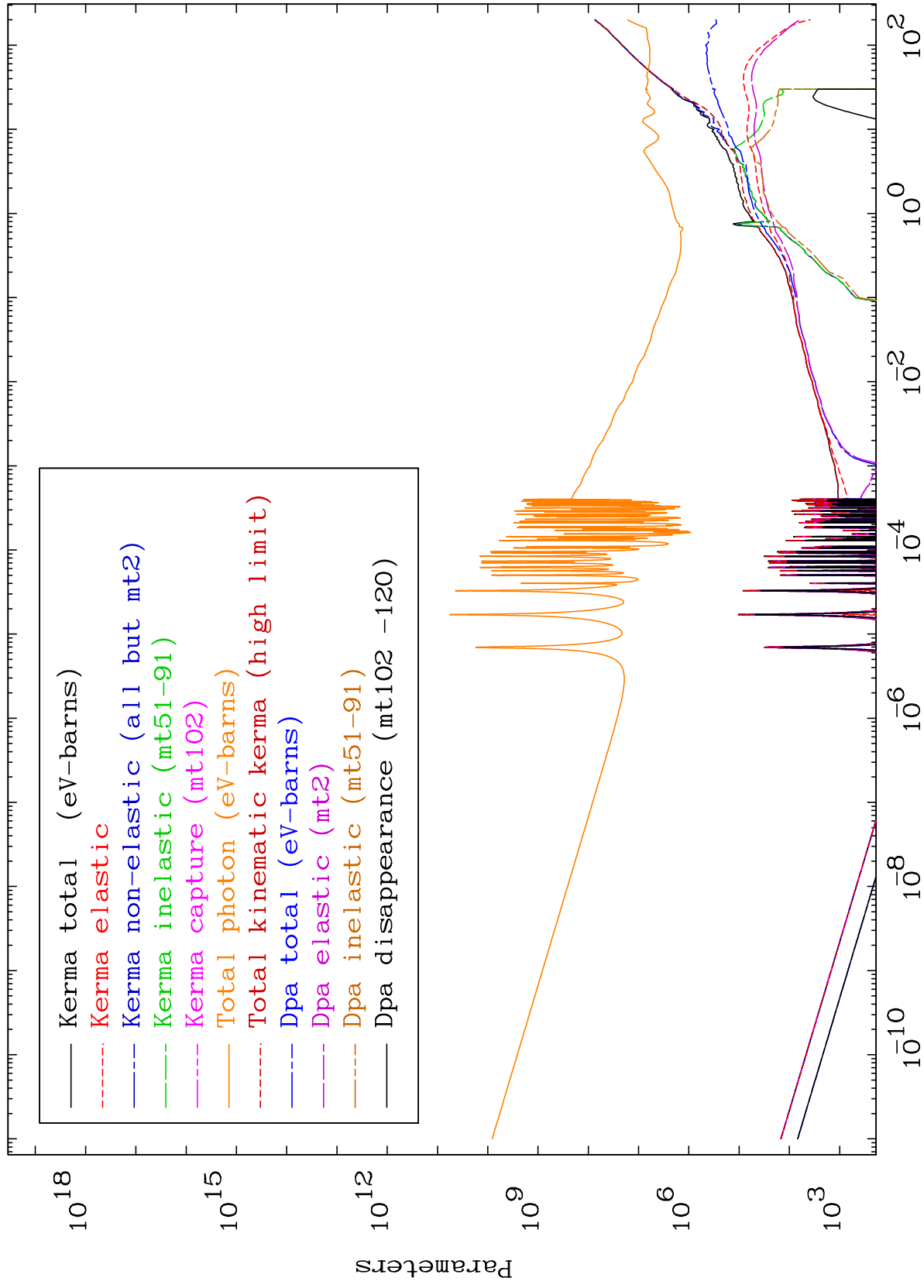
61-Pm-156



14

Incident Energy (MeV)

61-Pm-156

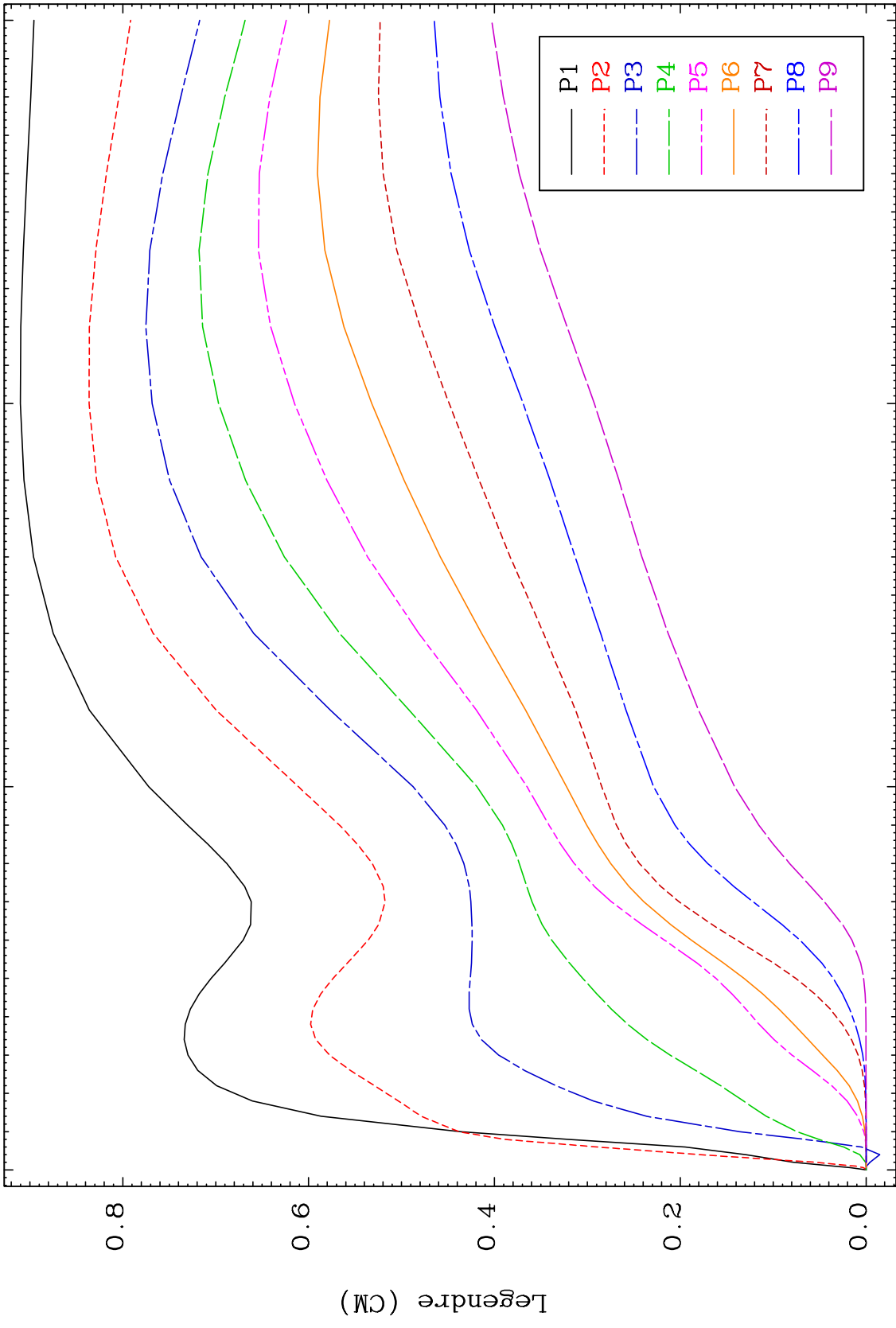




MAT 6176

Elastic Legendre Coefficients

61-Pm-156



16

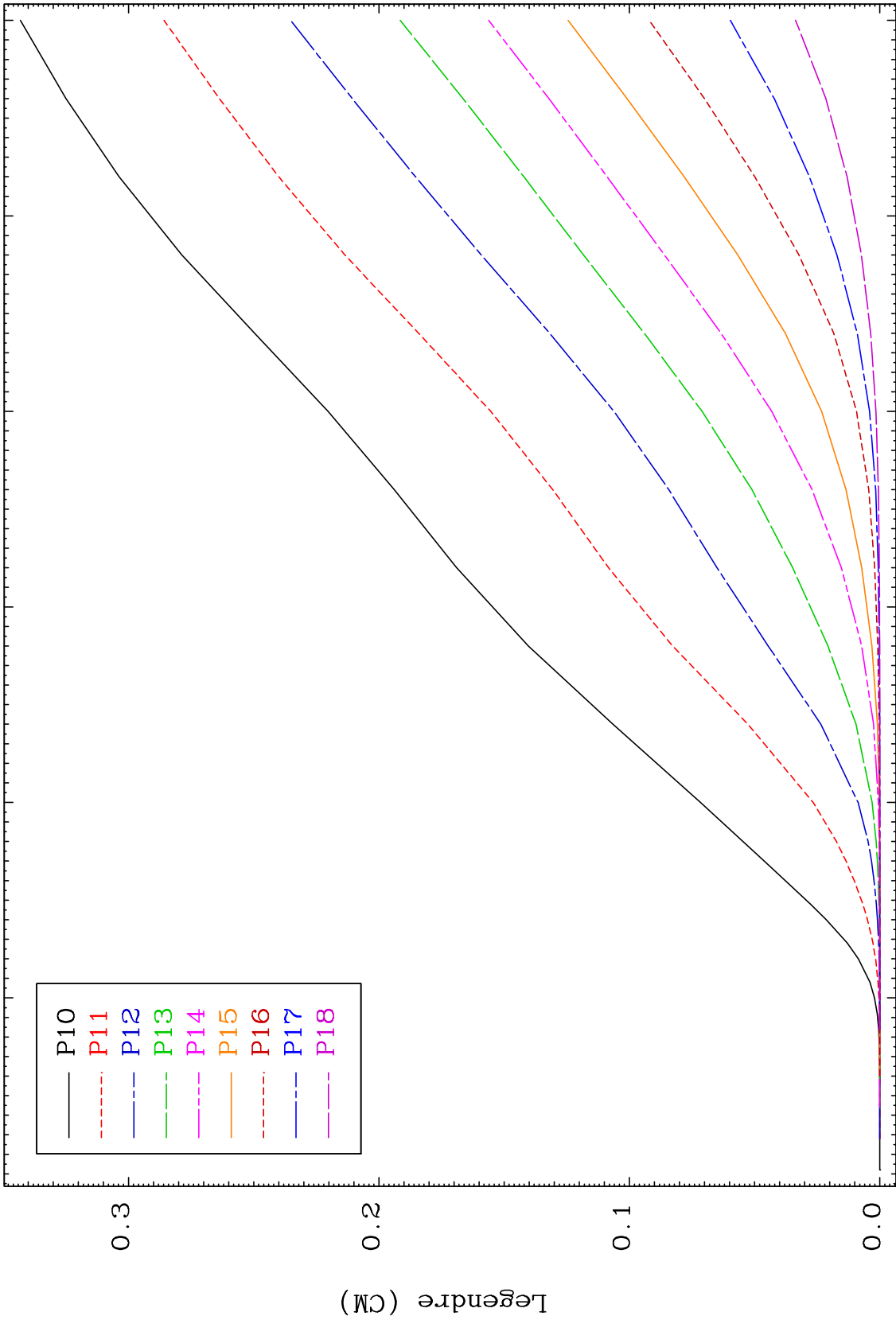
Incident Energy (MeV)

61-Pm-156

MAT 6176

Elastic Legendre Coefficients

61-Pm-156



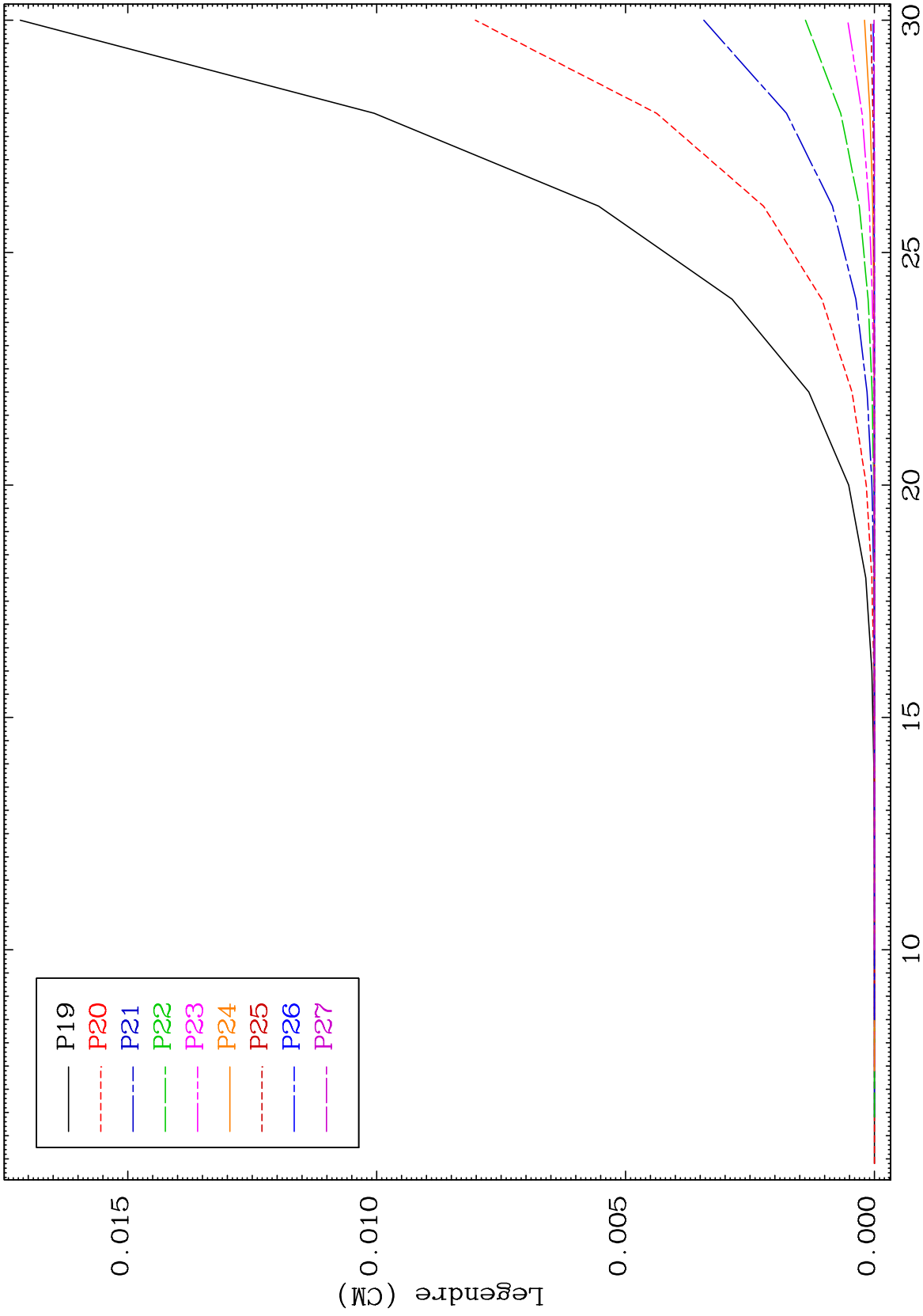
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61-Pm-156

MAT 6176

Elastic Legendre Coefficients

61-Pm-156



18

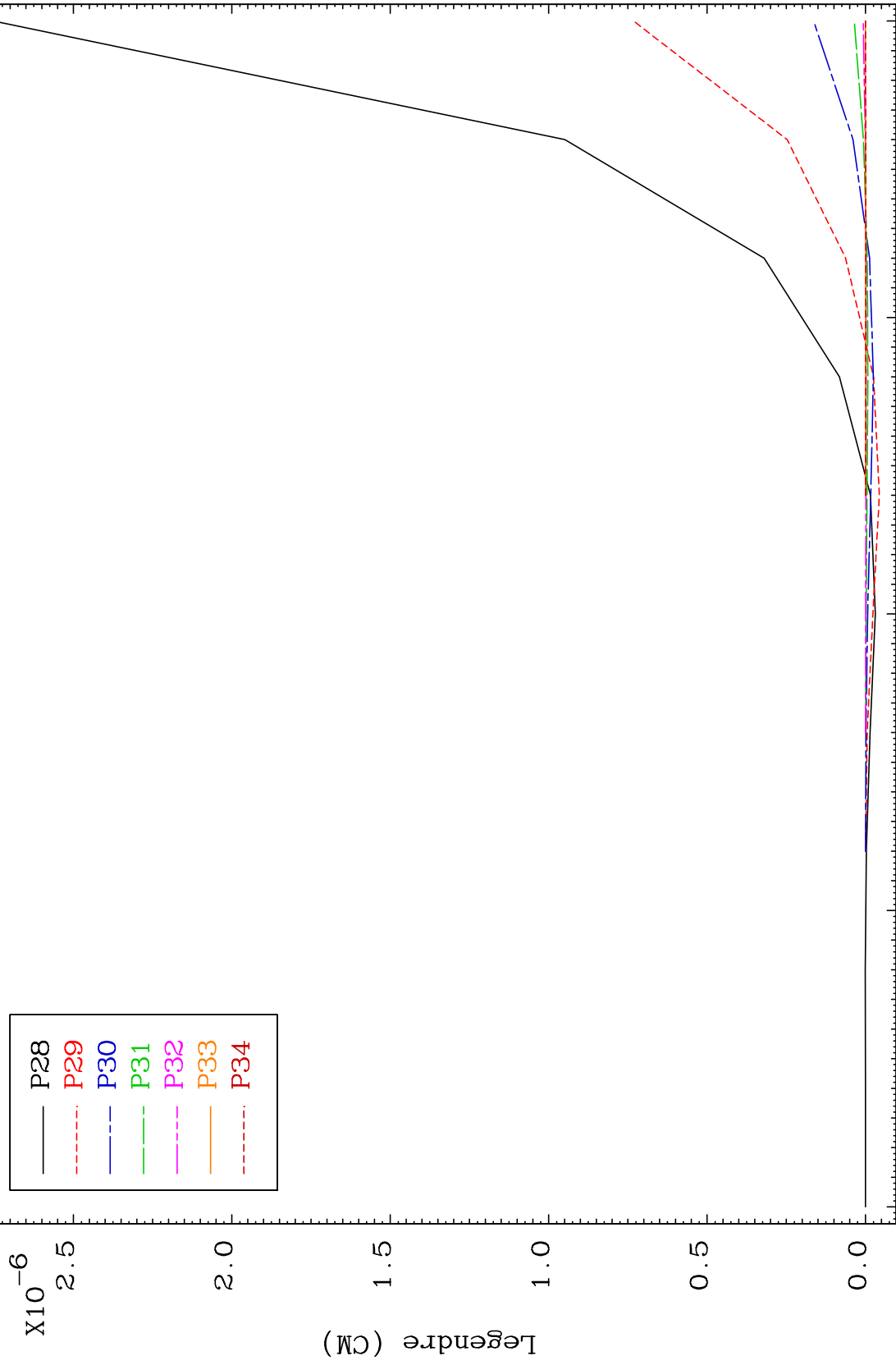
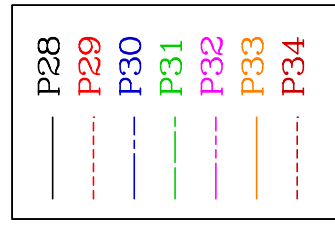
Incident Energy (MeV)

61-Pm-156

MAT 6176

Elastic Legendre Coefficients

61-Pm-156



19

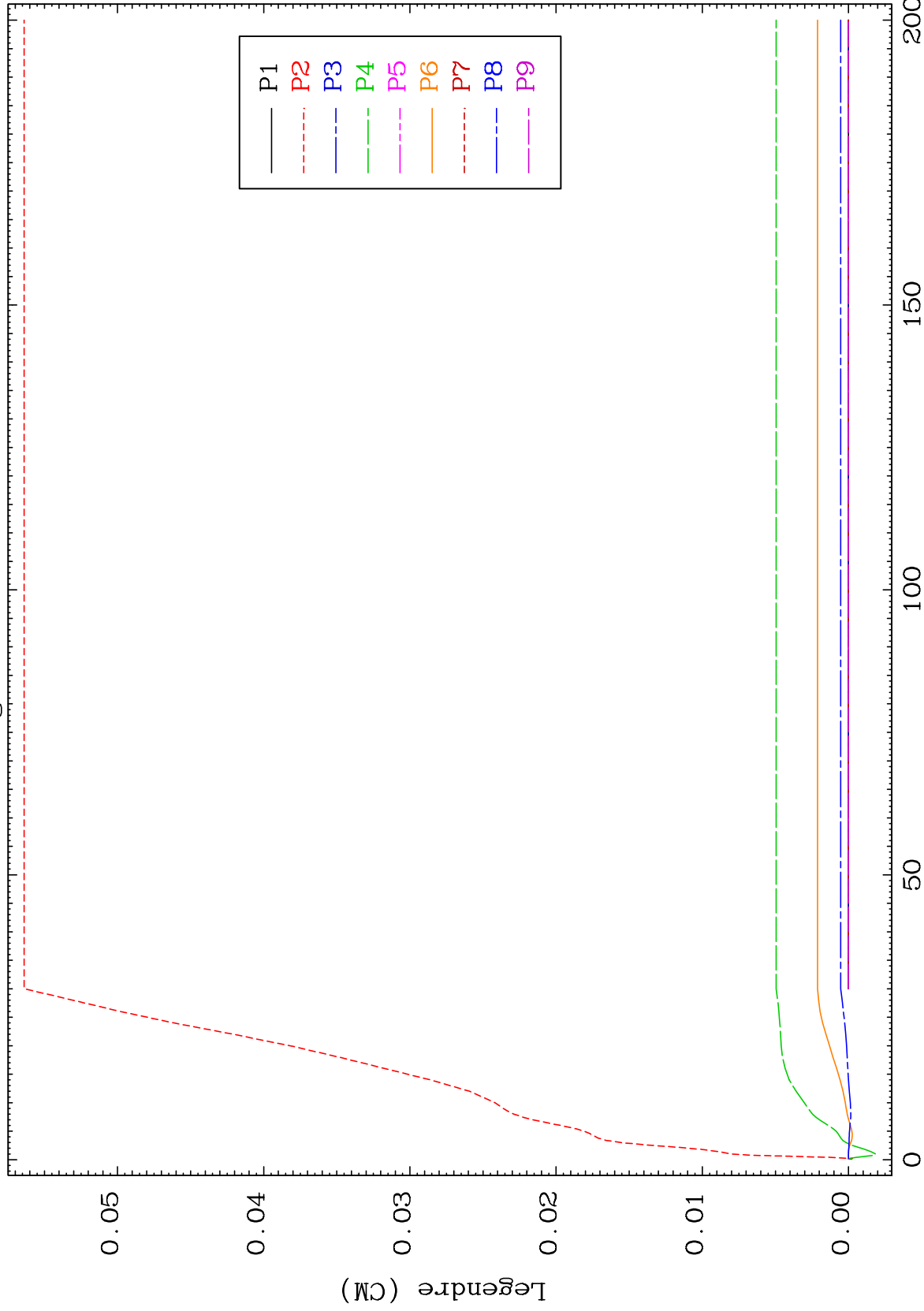
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



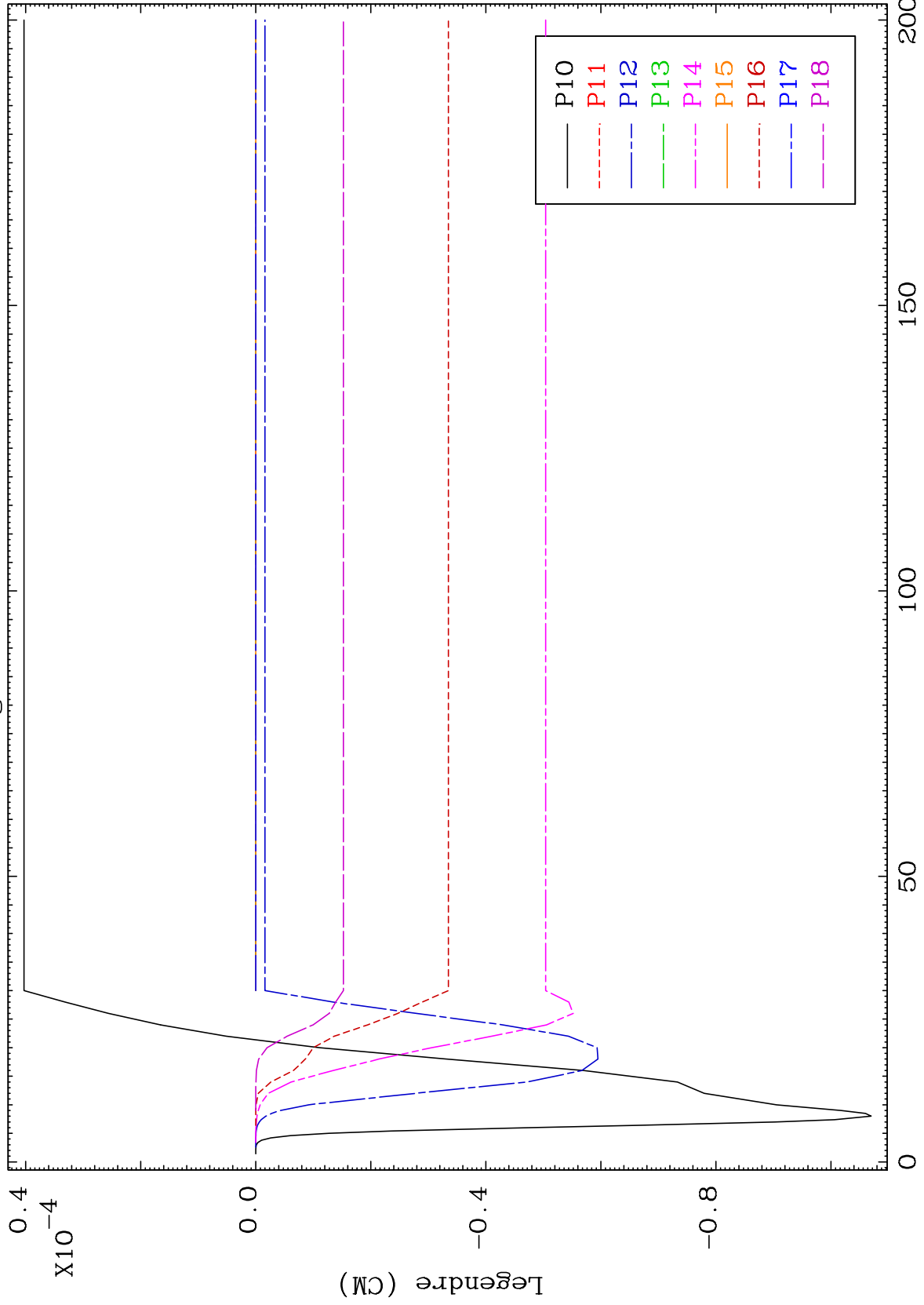
61-Pm-156

Incident Energy (MeV)

MAT 6176

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

61-Pm-156



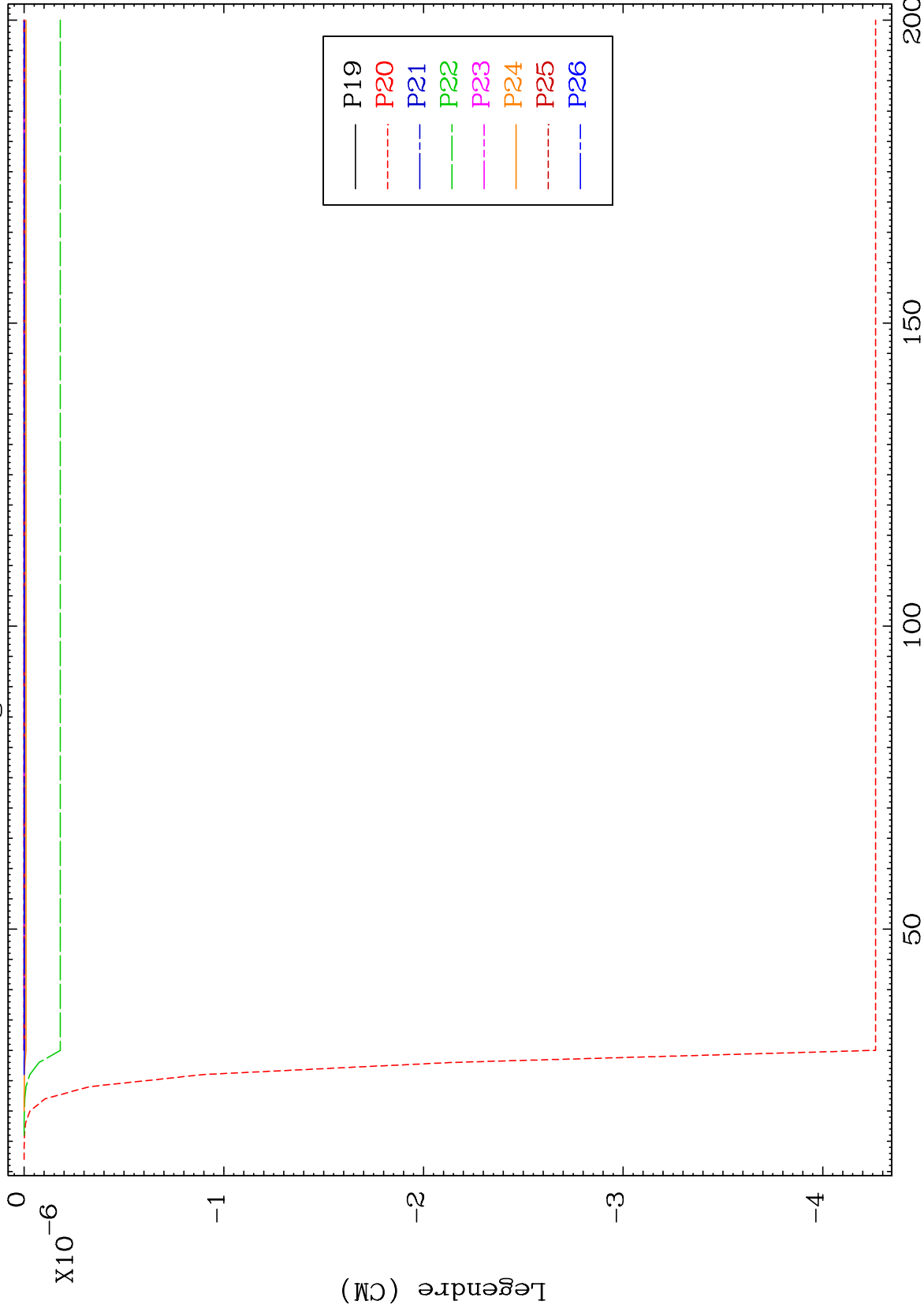
21

61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

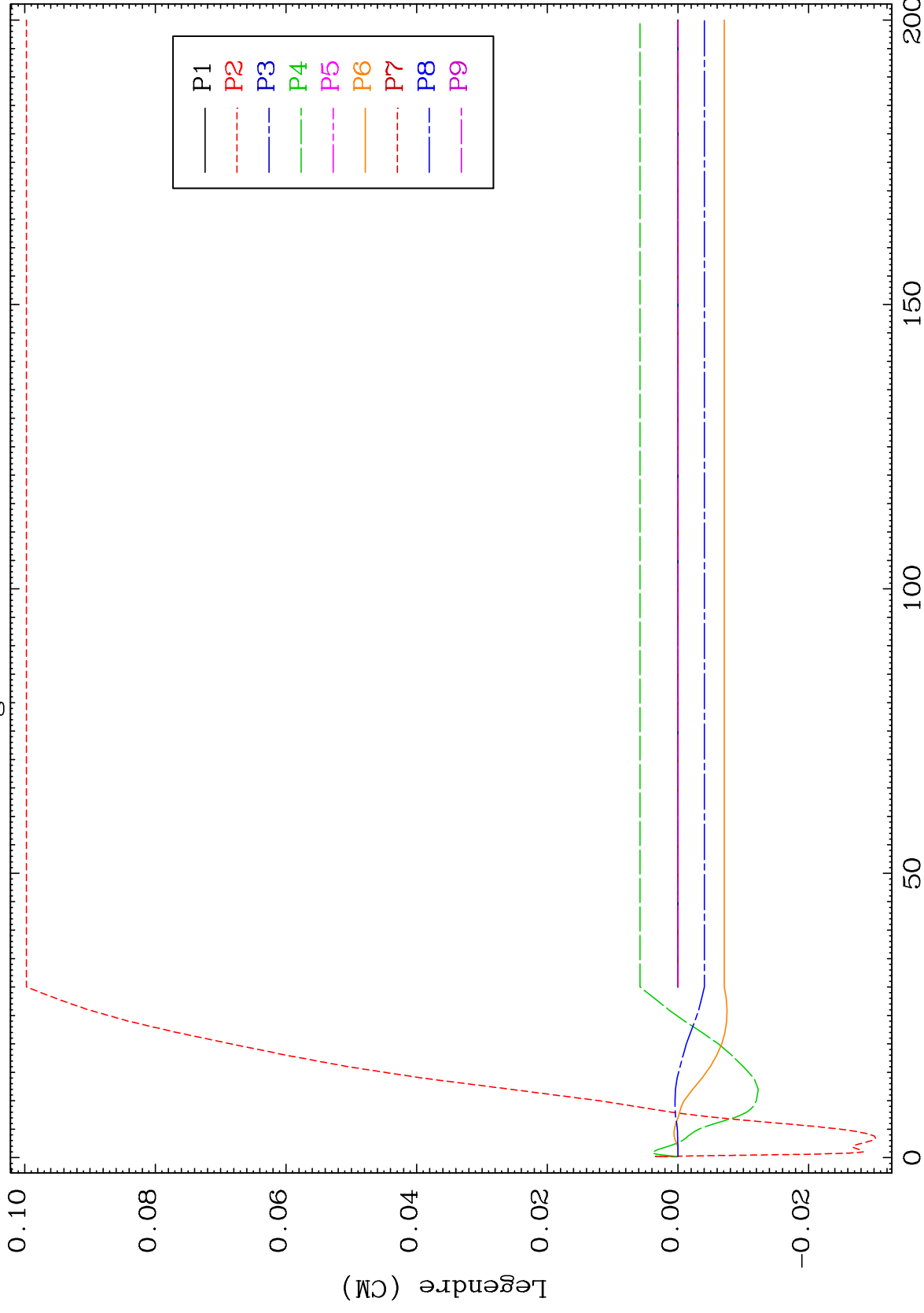
Incident Energy (MeV)

22

MAT 6176

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

61-Pm-156



23

Incident Energy (MeV)

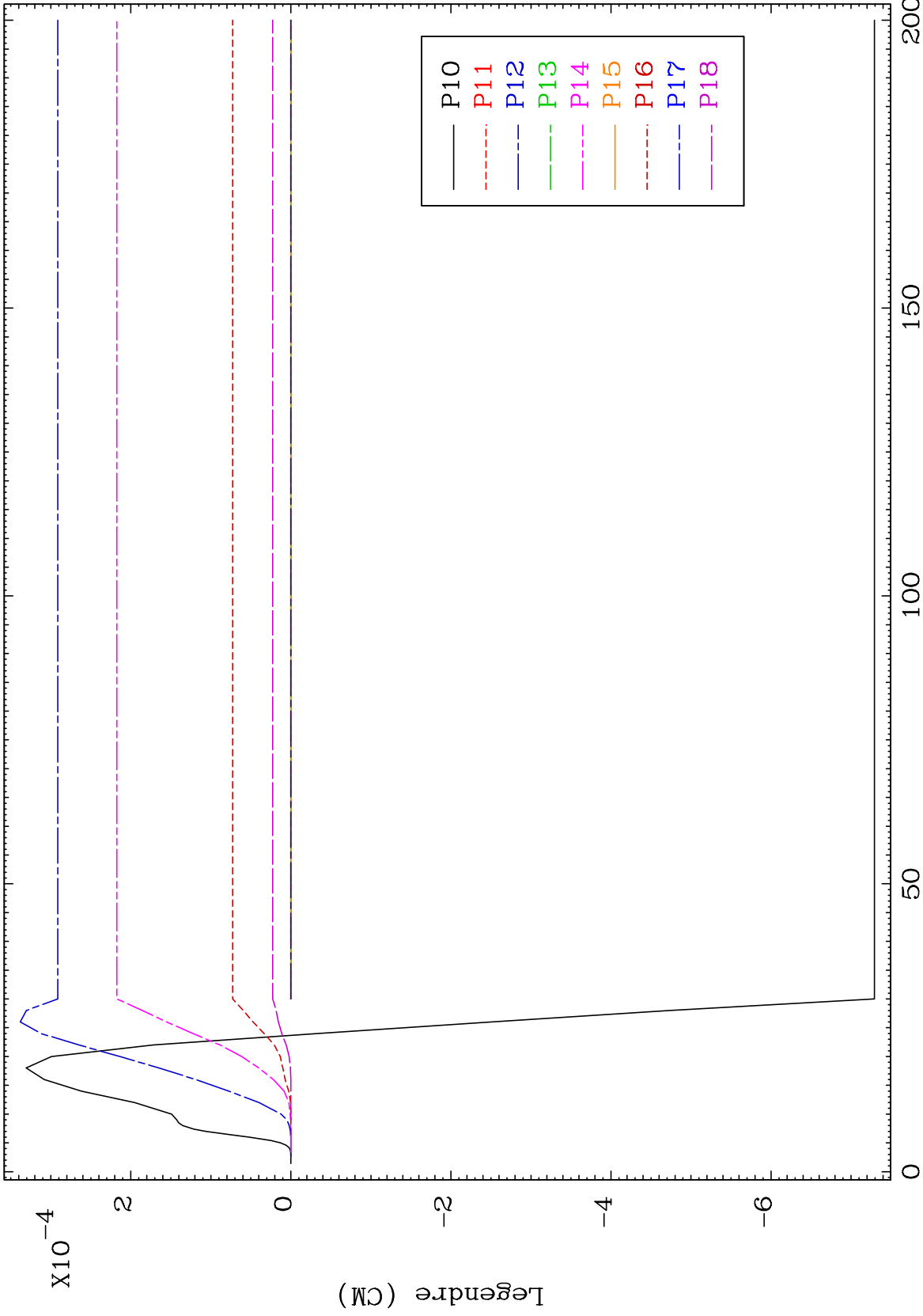
61-Pm-156



MAT 6176

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

61-Pm-156

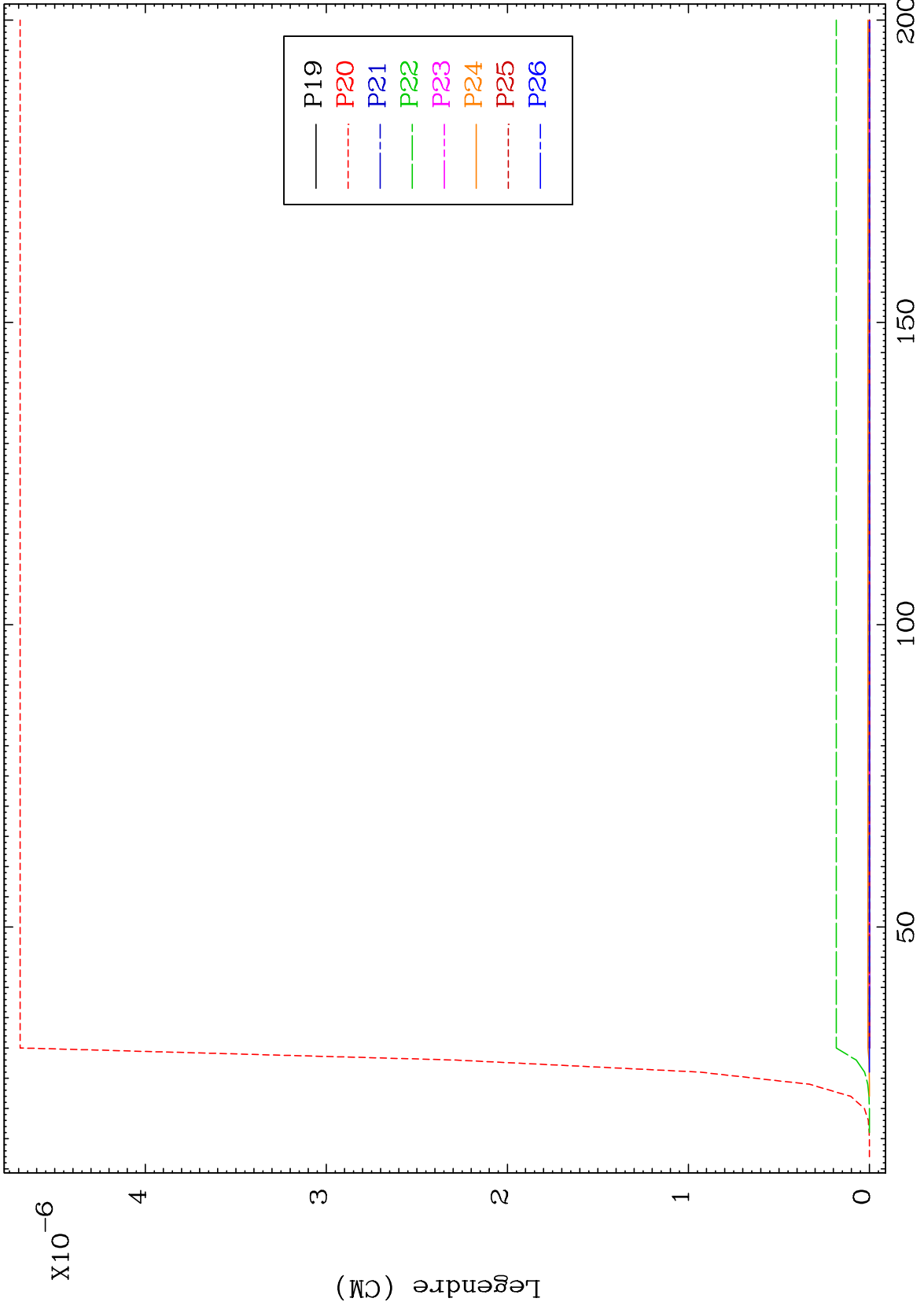


24

Incident Energy (MeV)

61-Pm-156

MAT 6176 MT= 52 (n,n') Level Legendre Coefficients 61-Pm-156

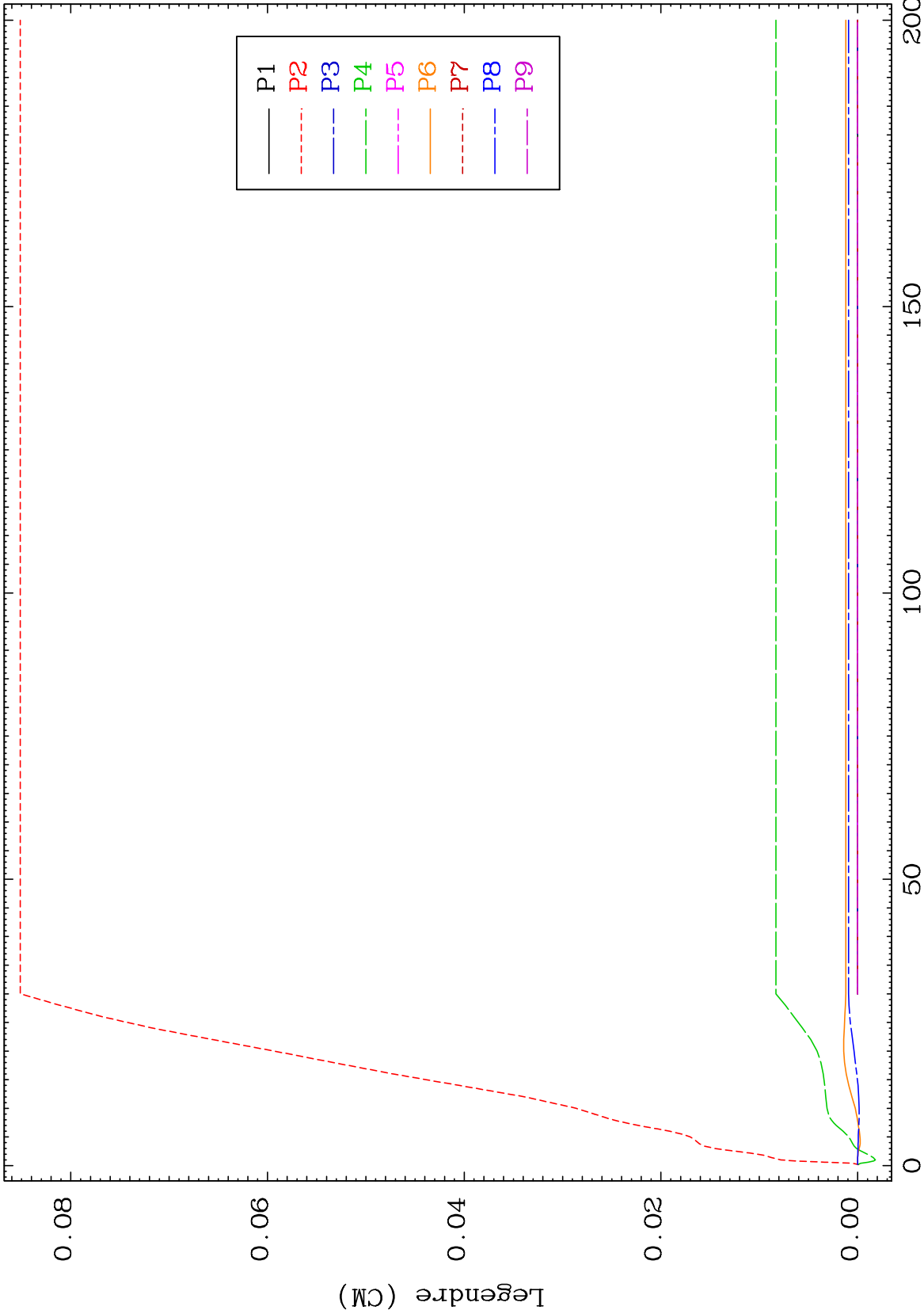


25 50 100 150 200 Incident Energy (MeV) 61-Pm-156

MAT 6176

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

61-Pm-156



26

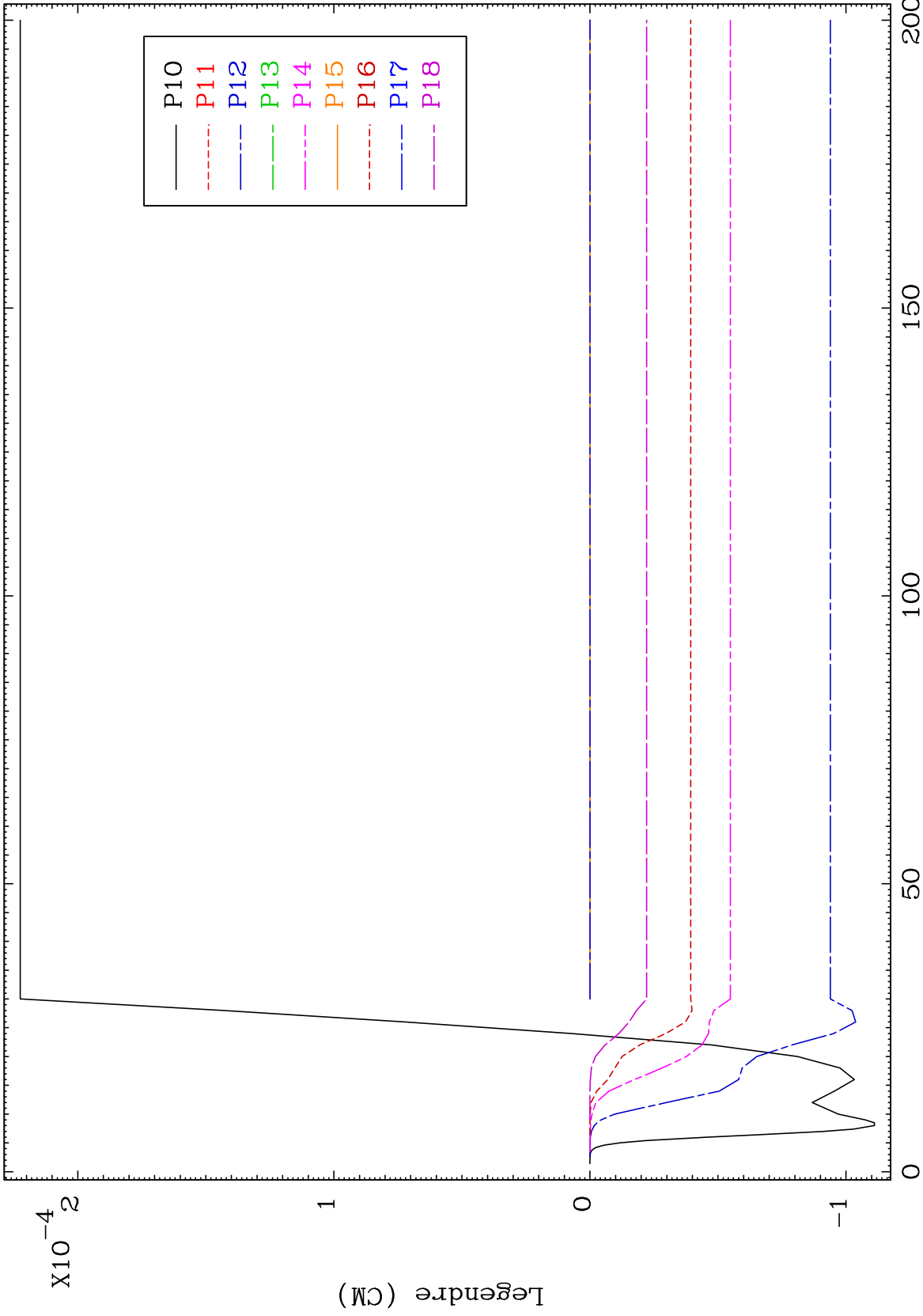
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



27

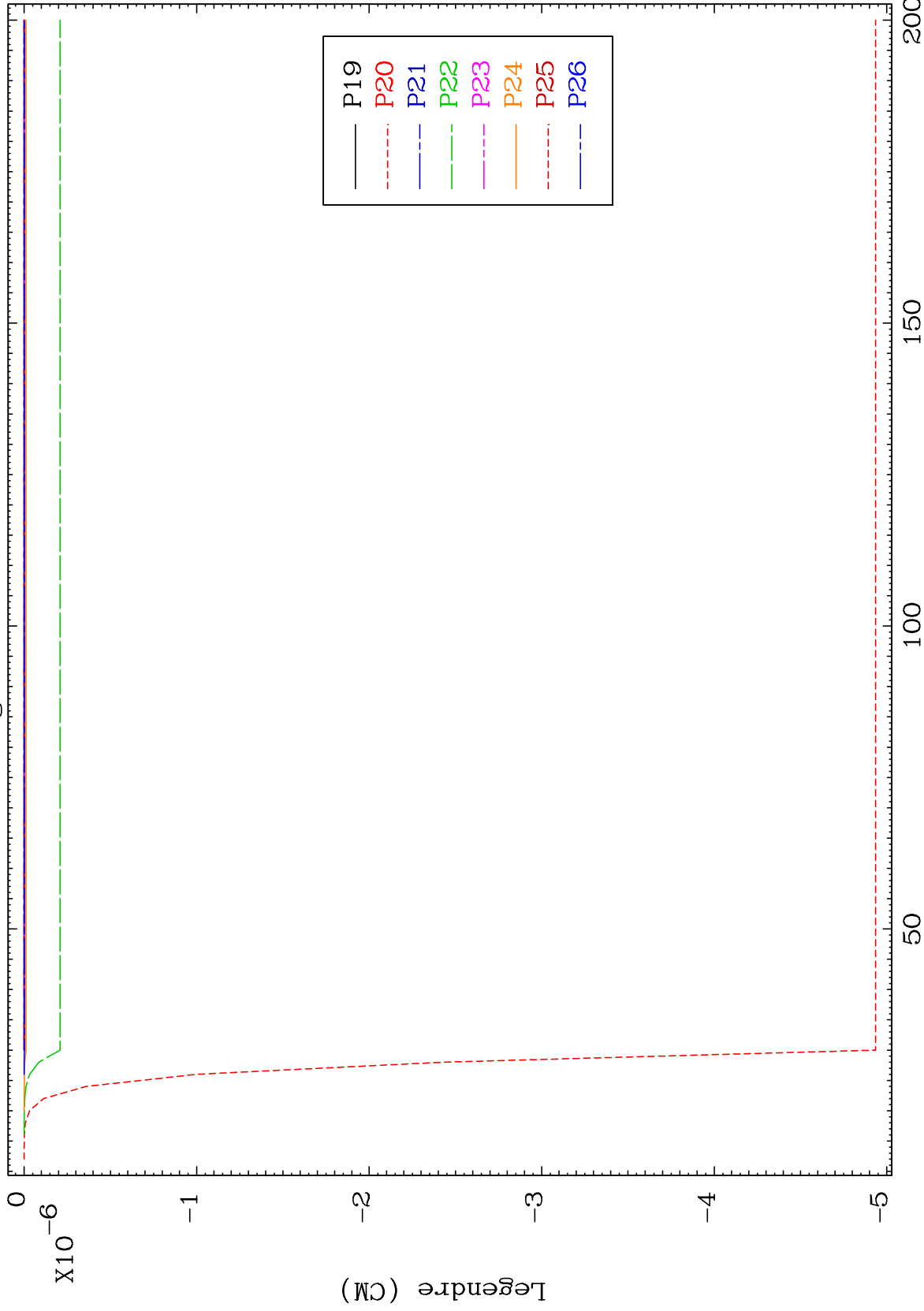
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



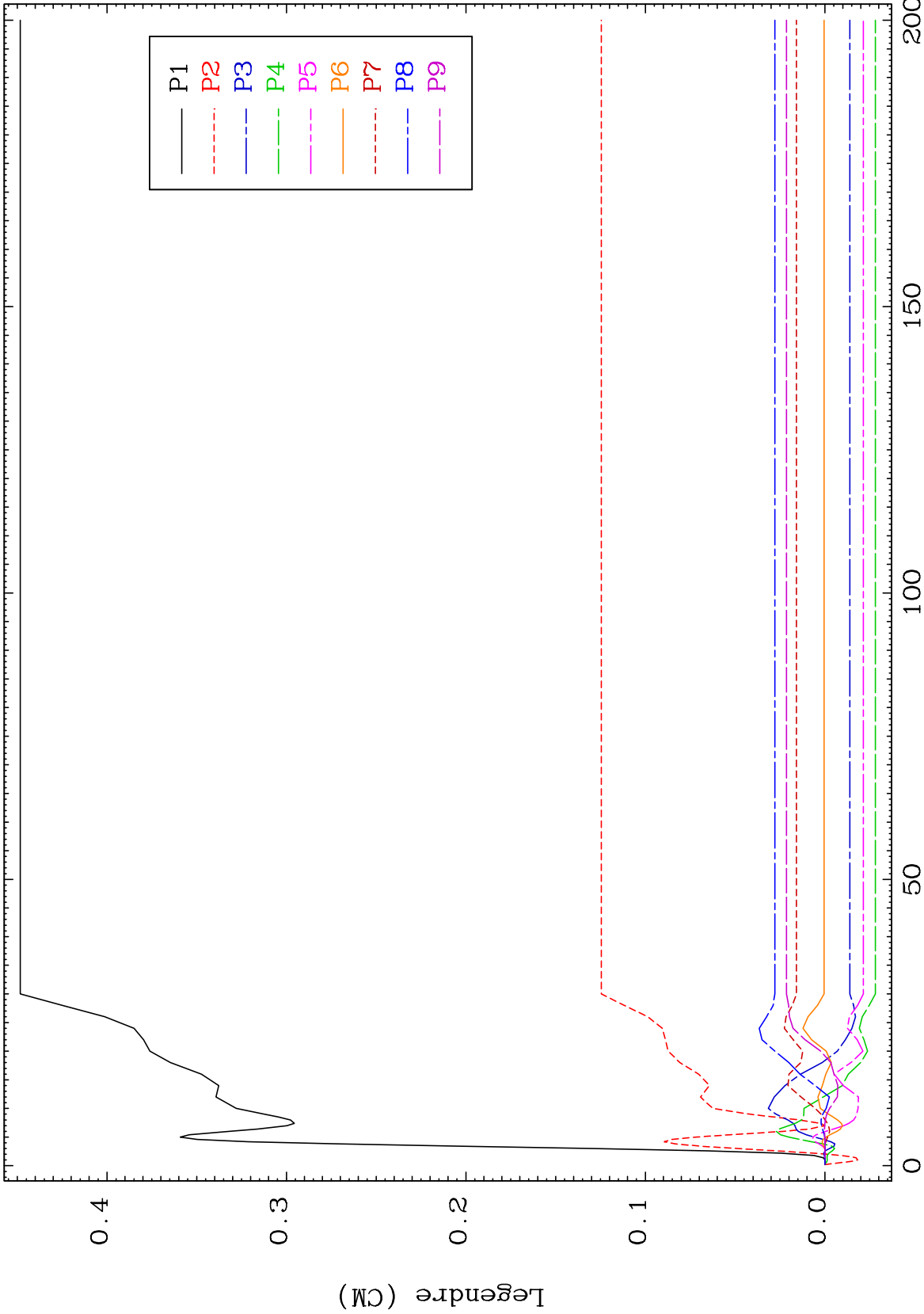
28

61-Pm-156

MAT 6176

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

61-Pm-156



29

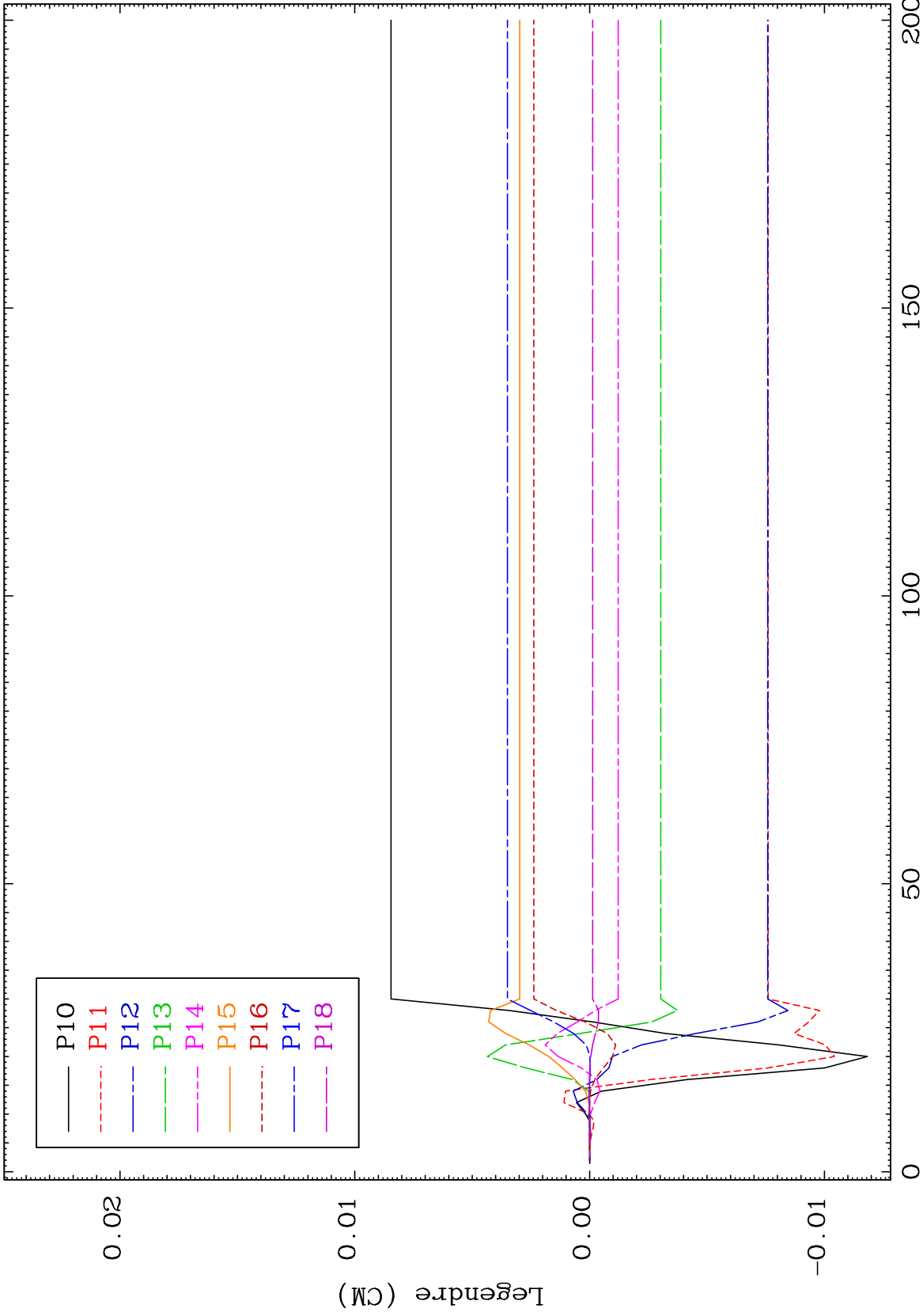
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



30

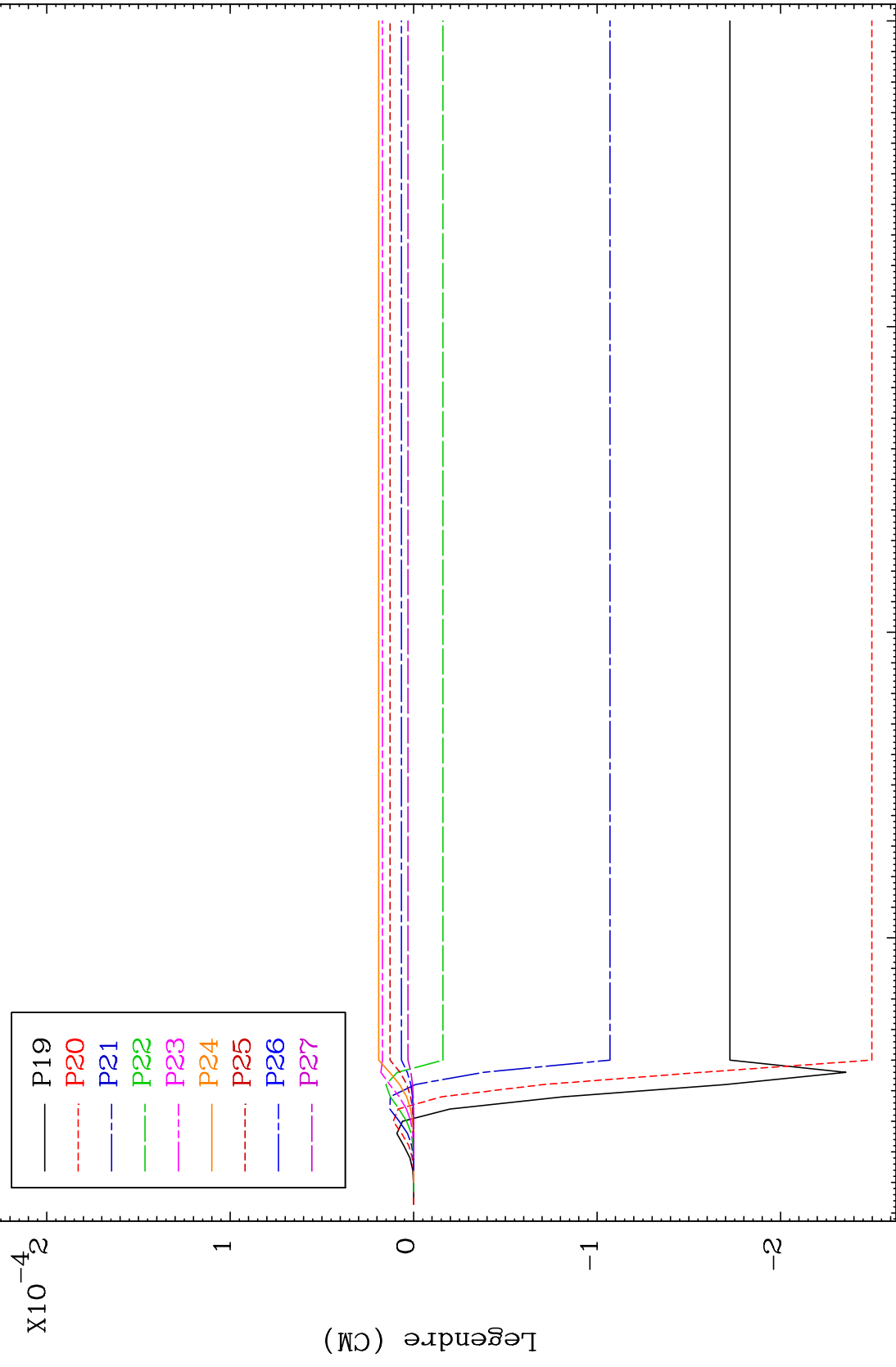
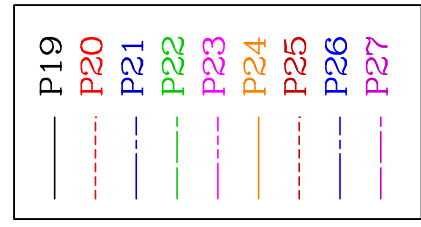
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



31

Incident Energy (MeV)

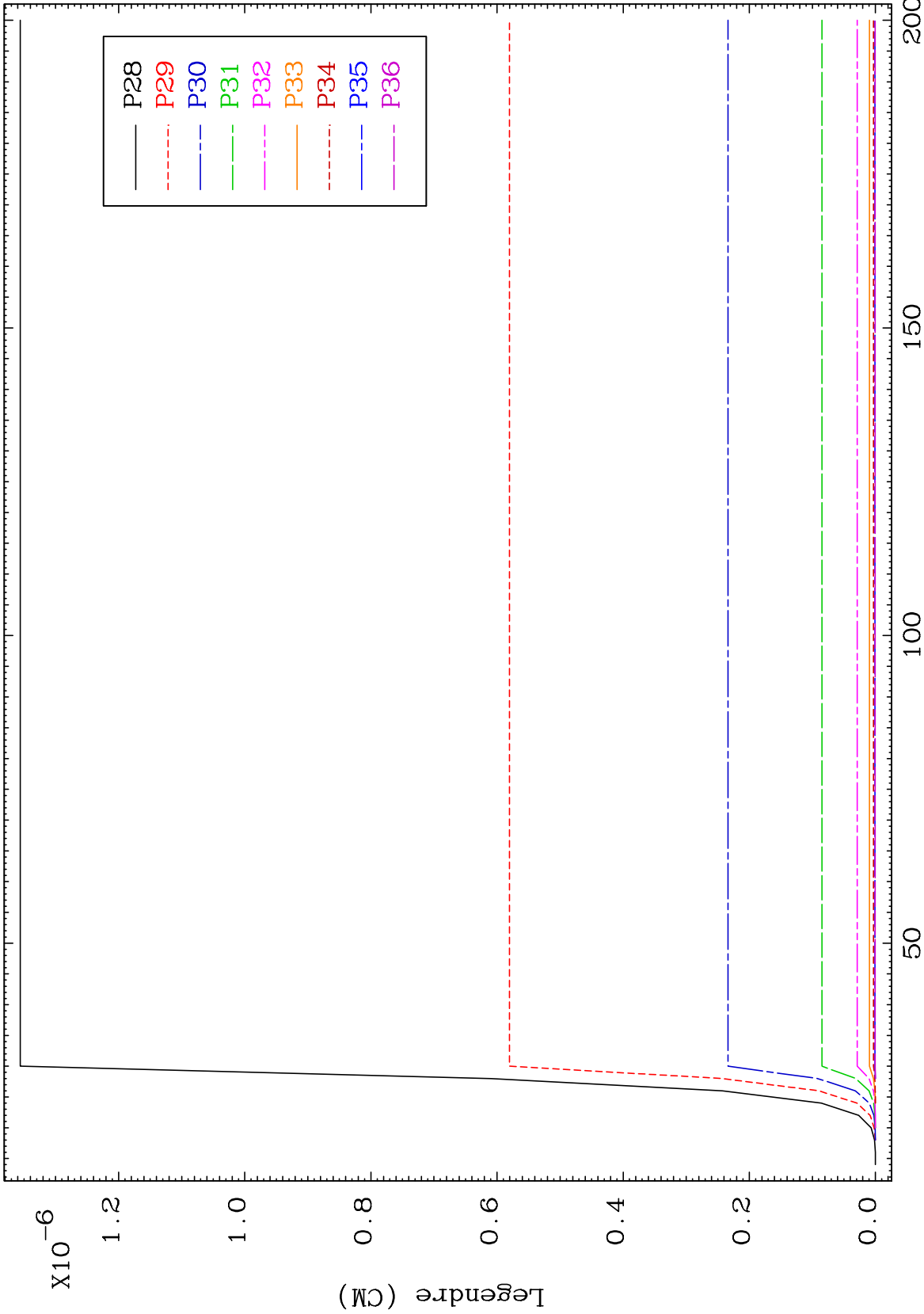
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MAT 6176

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

61-Pm-156



32

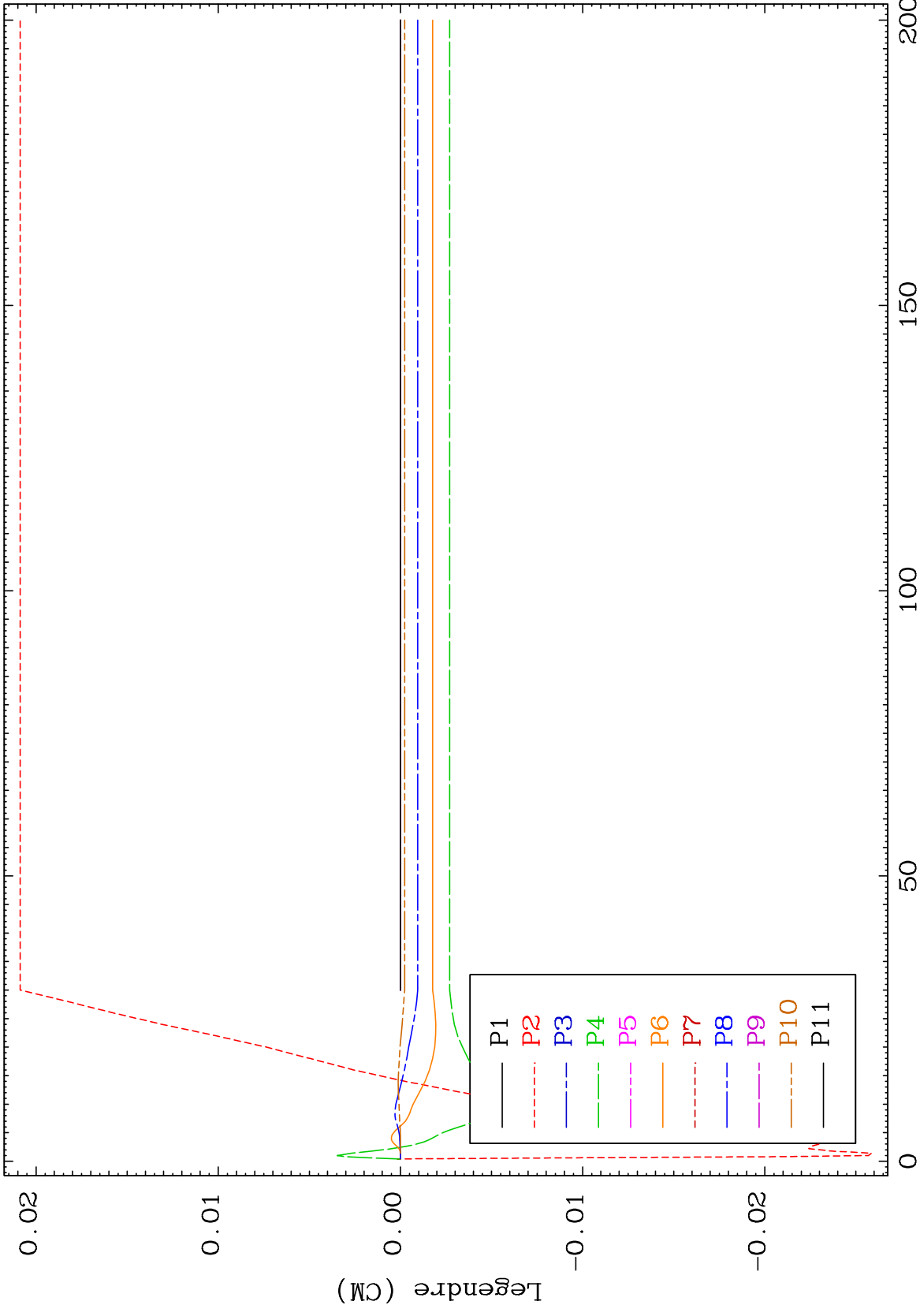
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

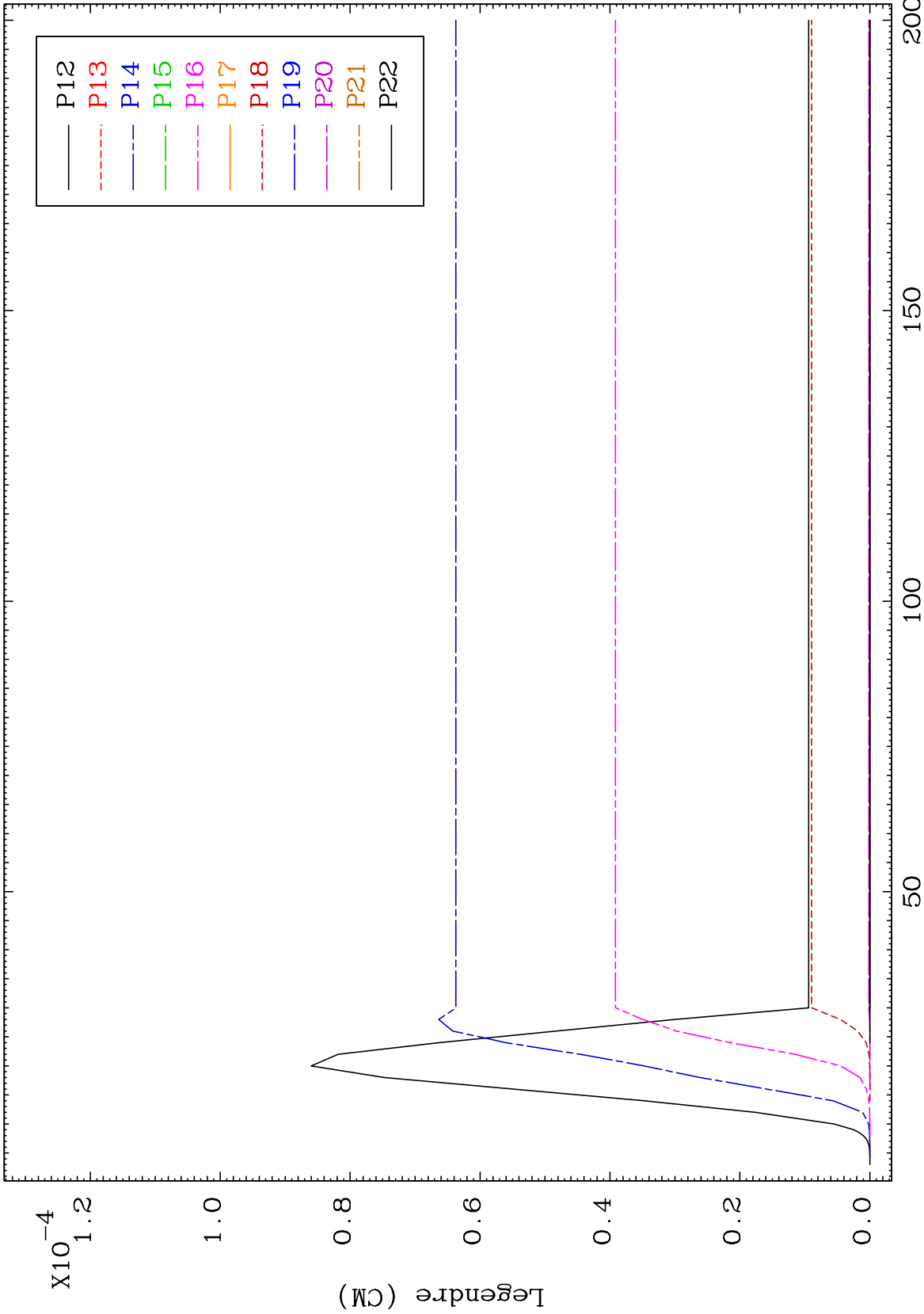
61-Pm-156



MAT 6176

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

61-Pm-156



34

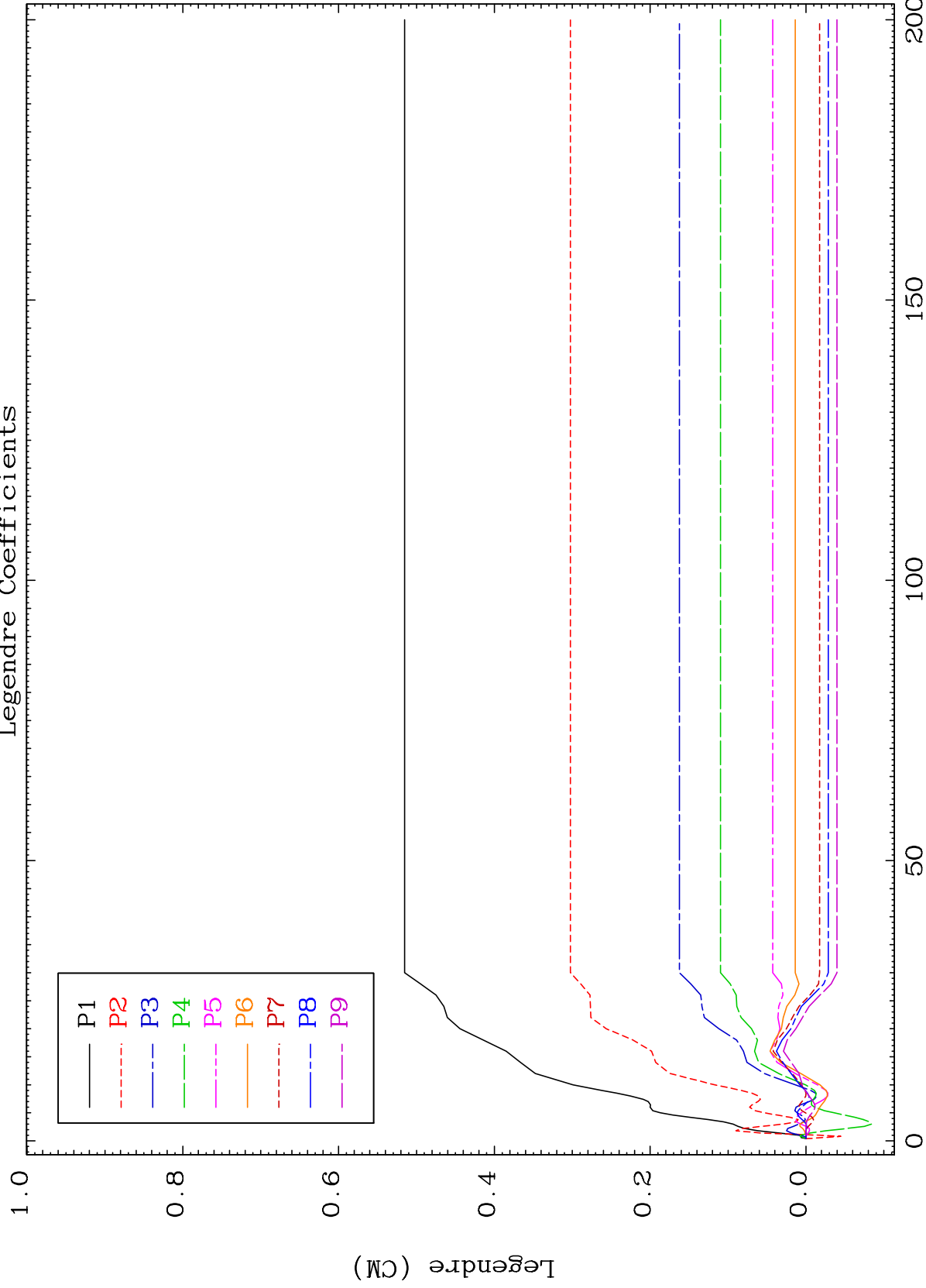
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

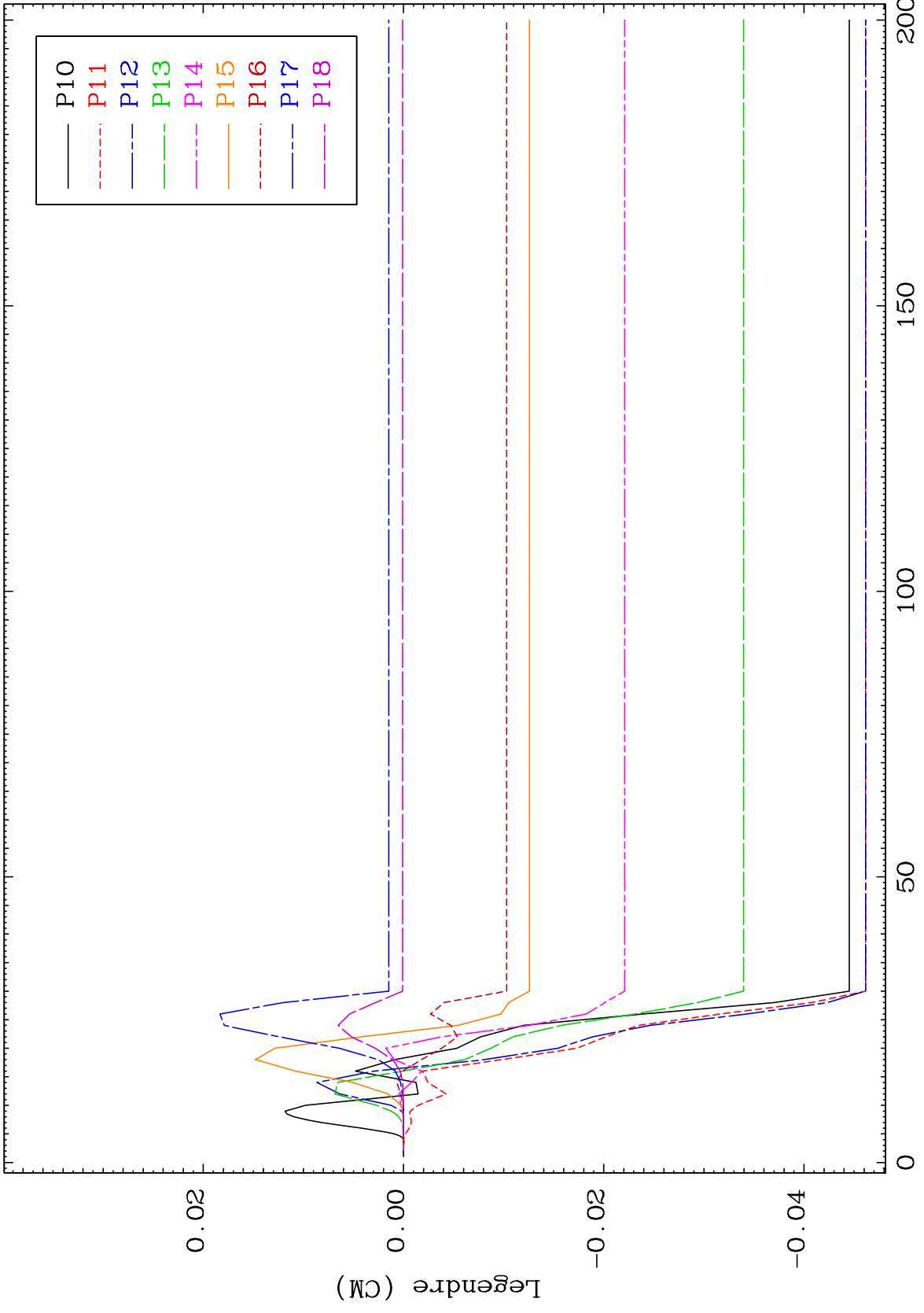
Incident Energy (MeV)

35

MAT 6176

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

61-Pm-156



36

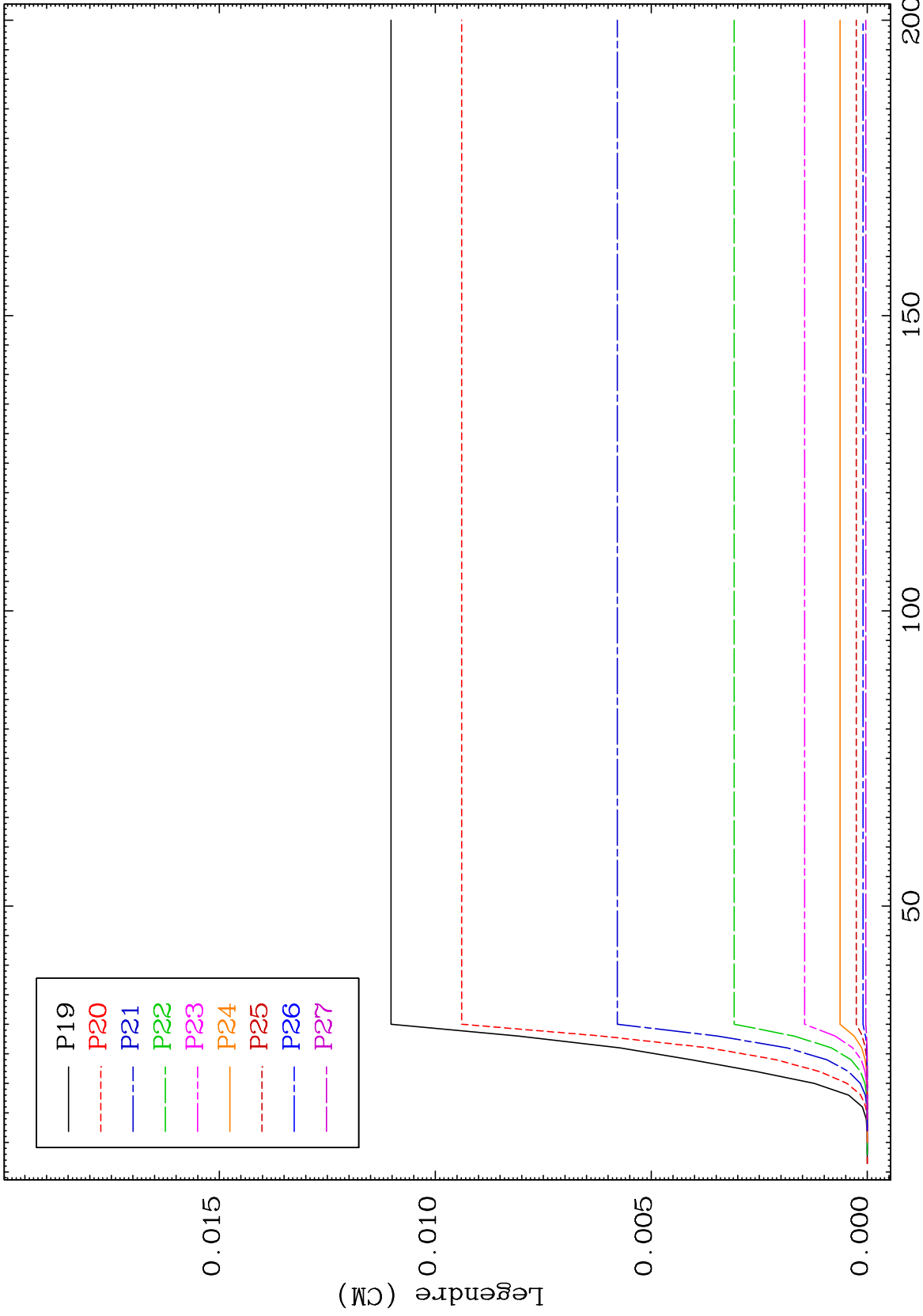
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



37

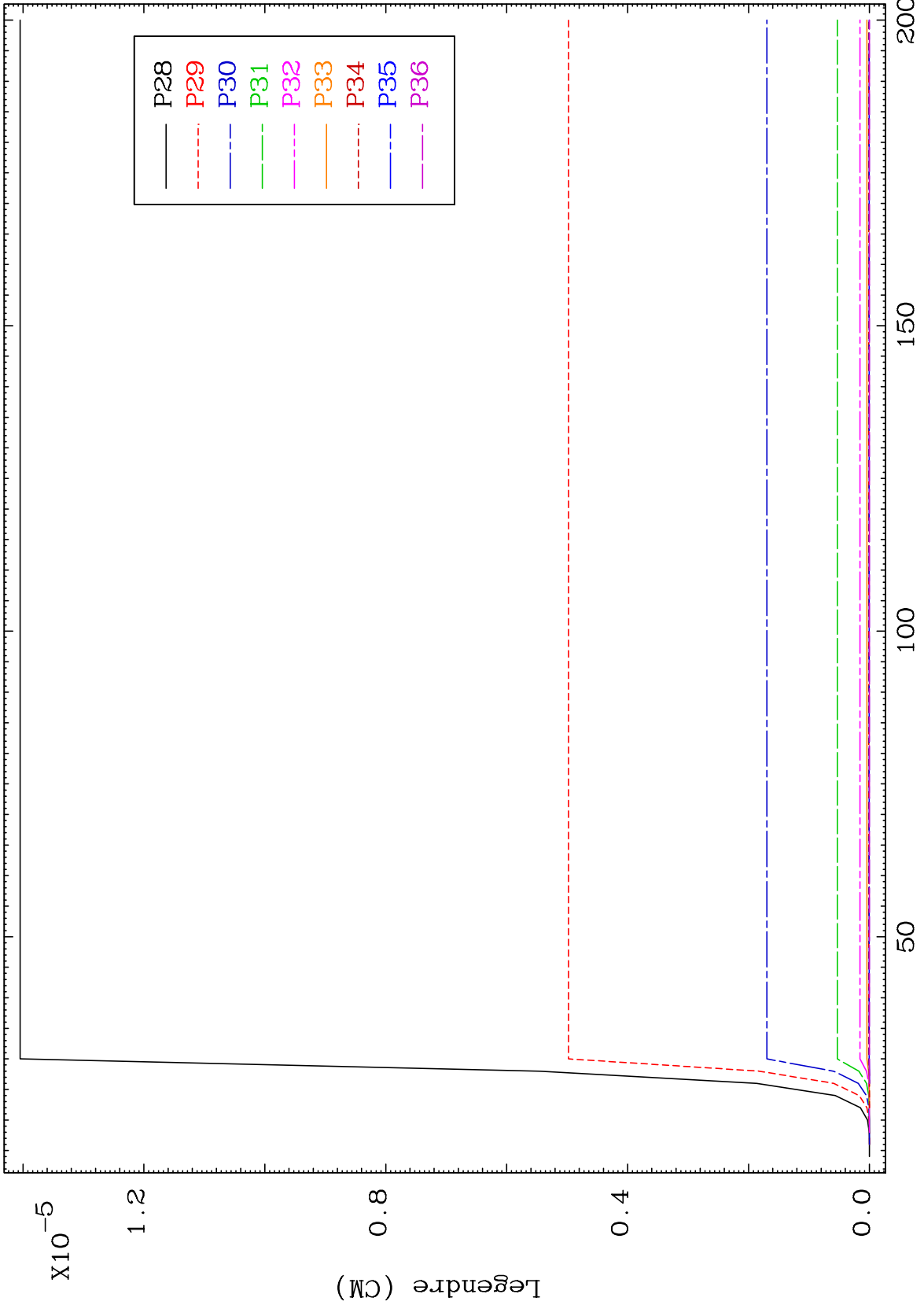
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



38

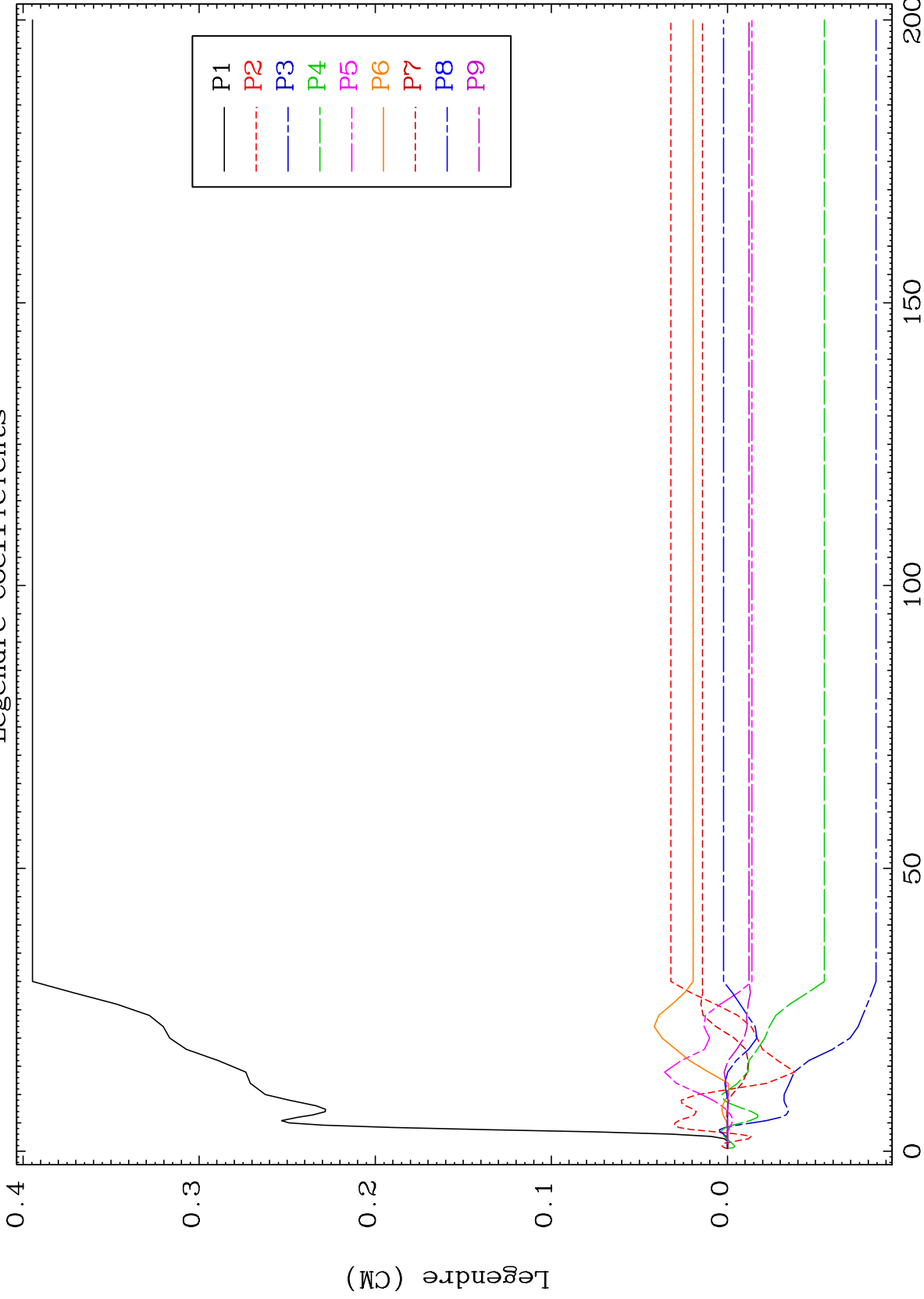
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



39

Incident Energy (MeV)

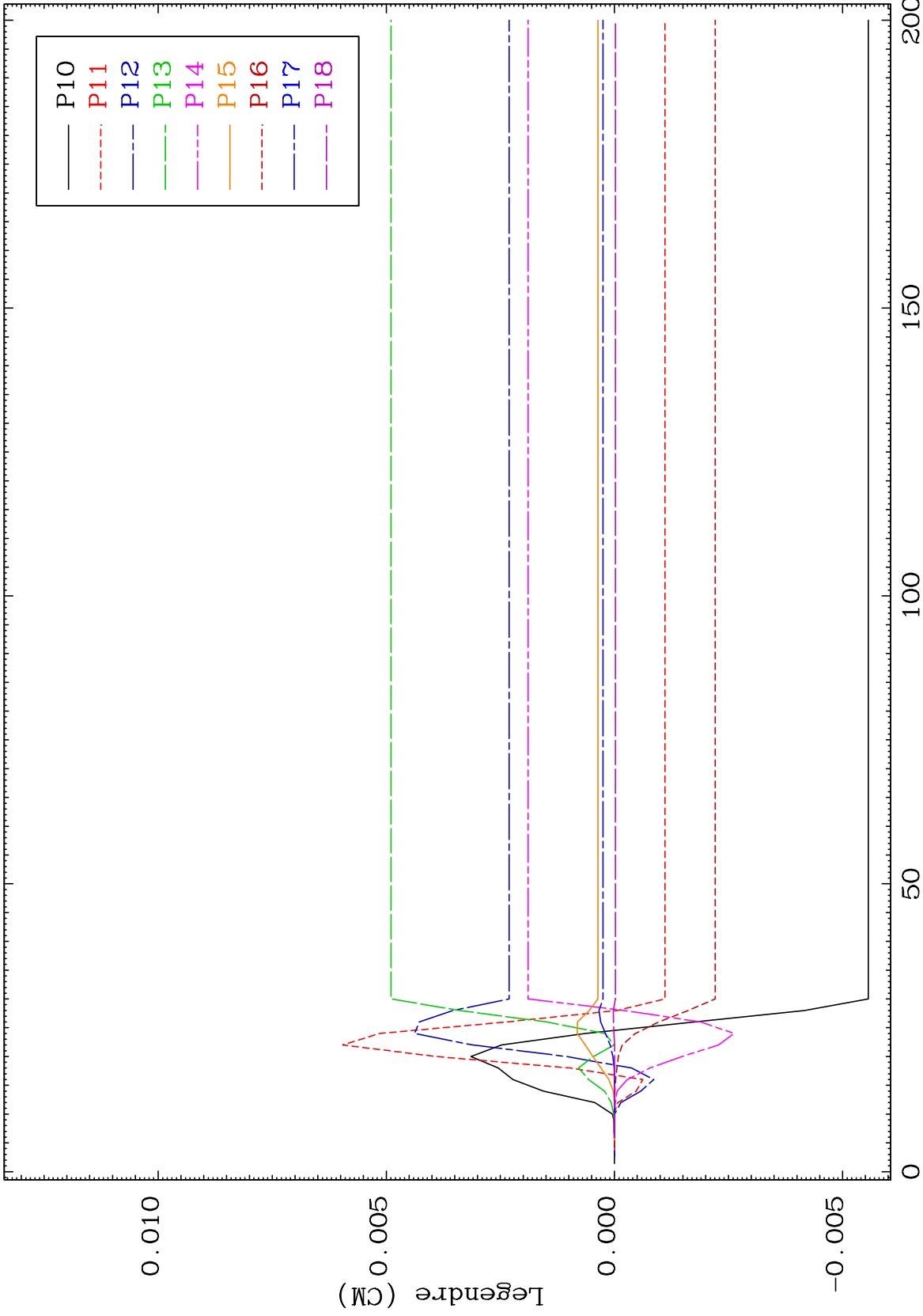
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MAT 6176

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

61-Pm-156



40

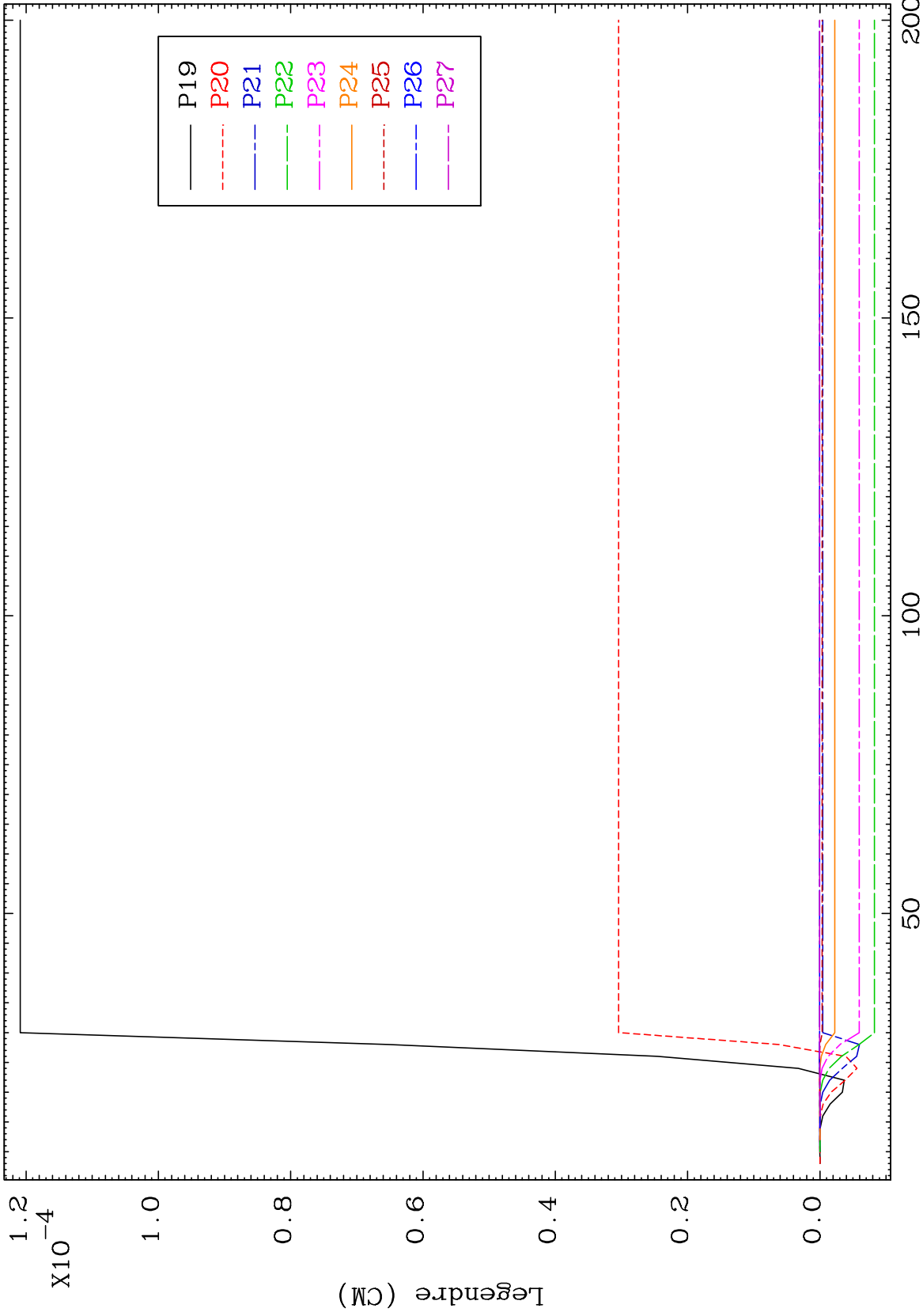
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



41

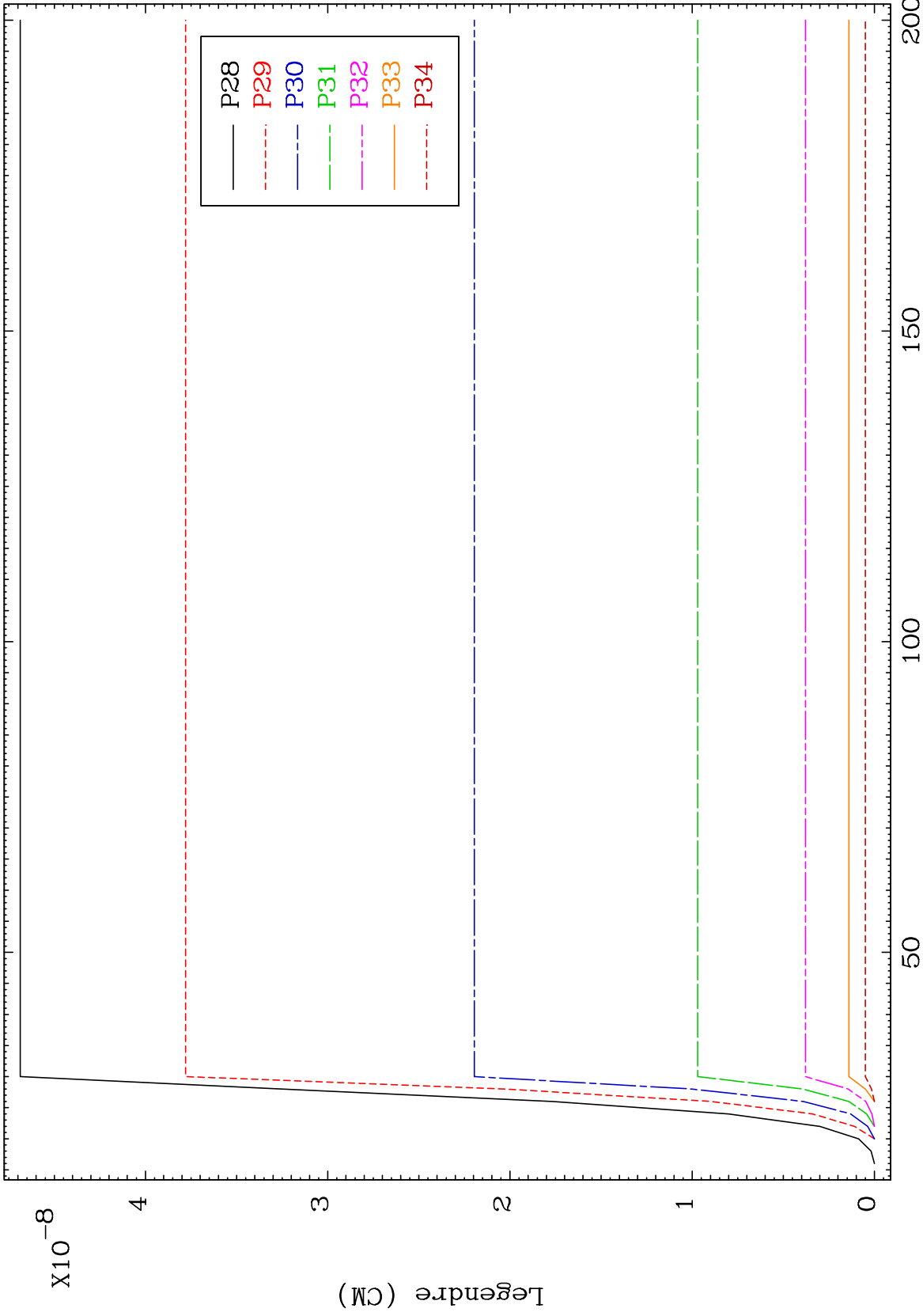
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



42

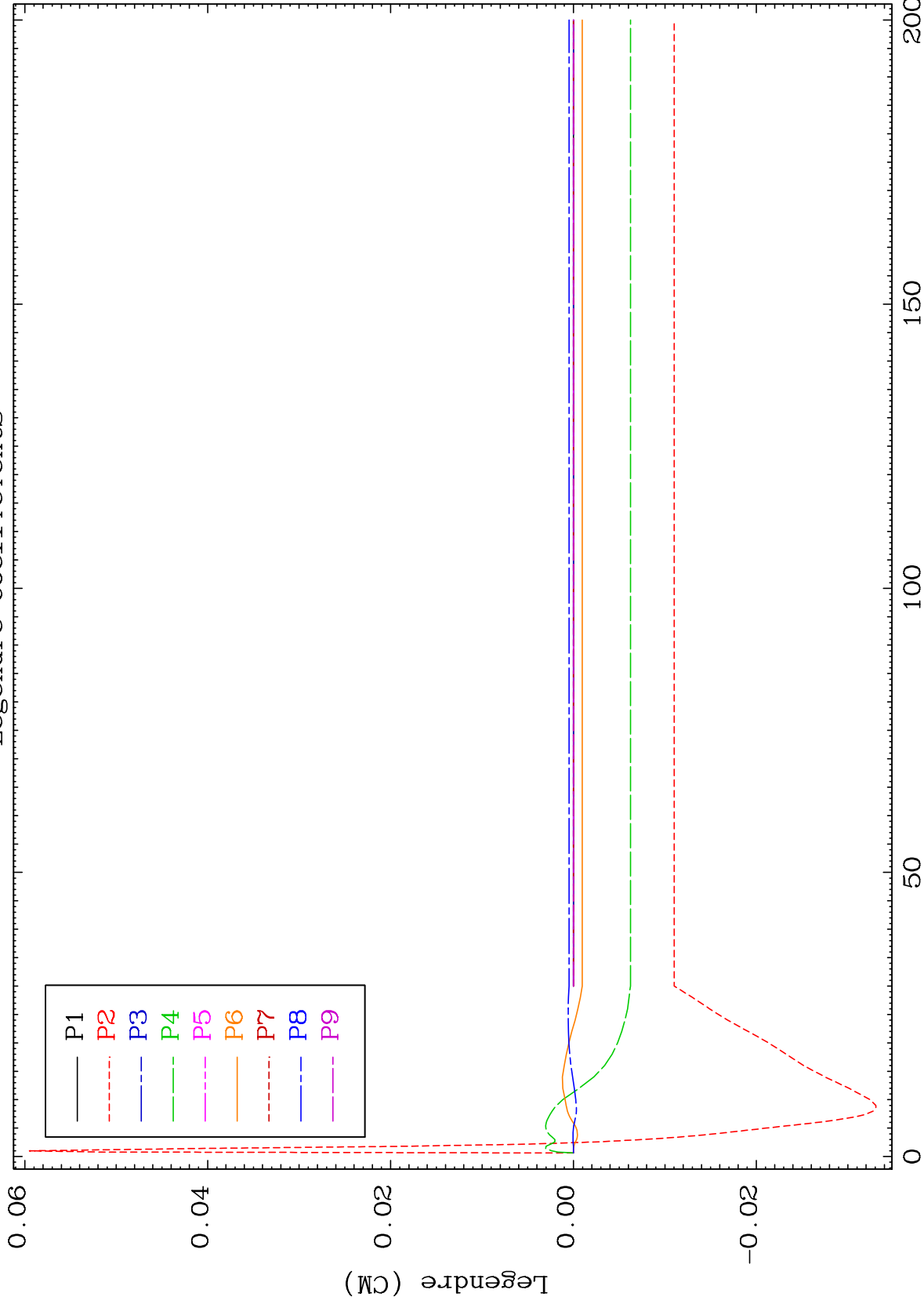
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



43

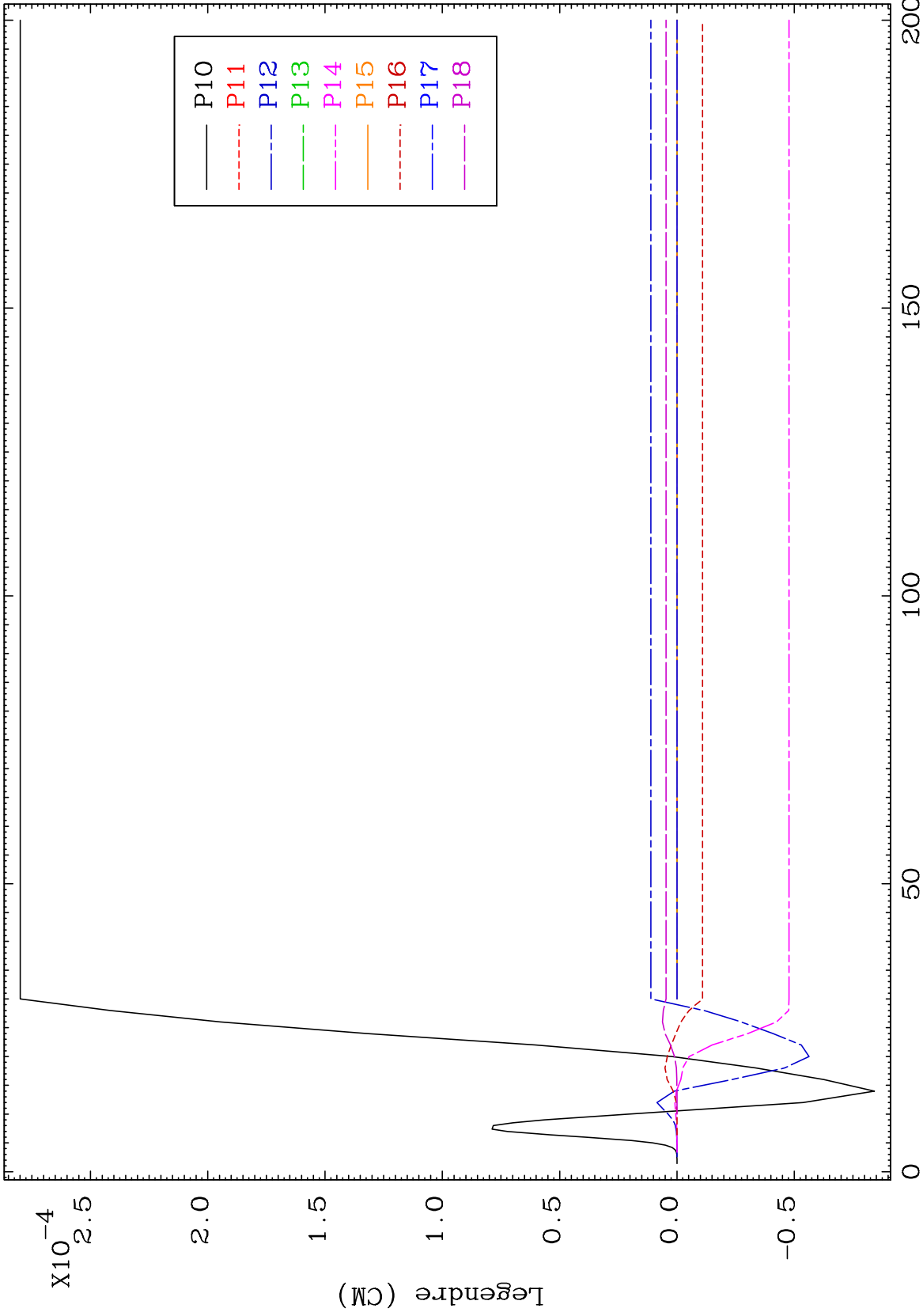
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



44

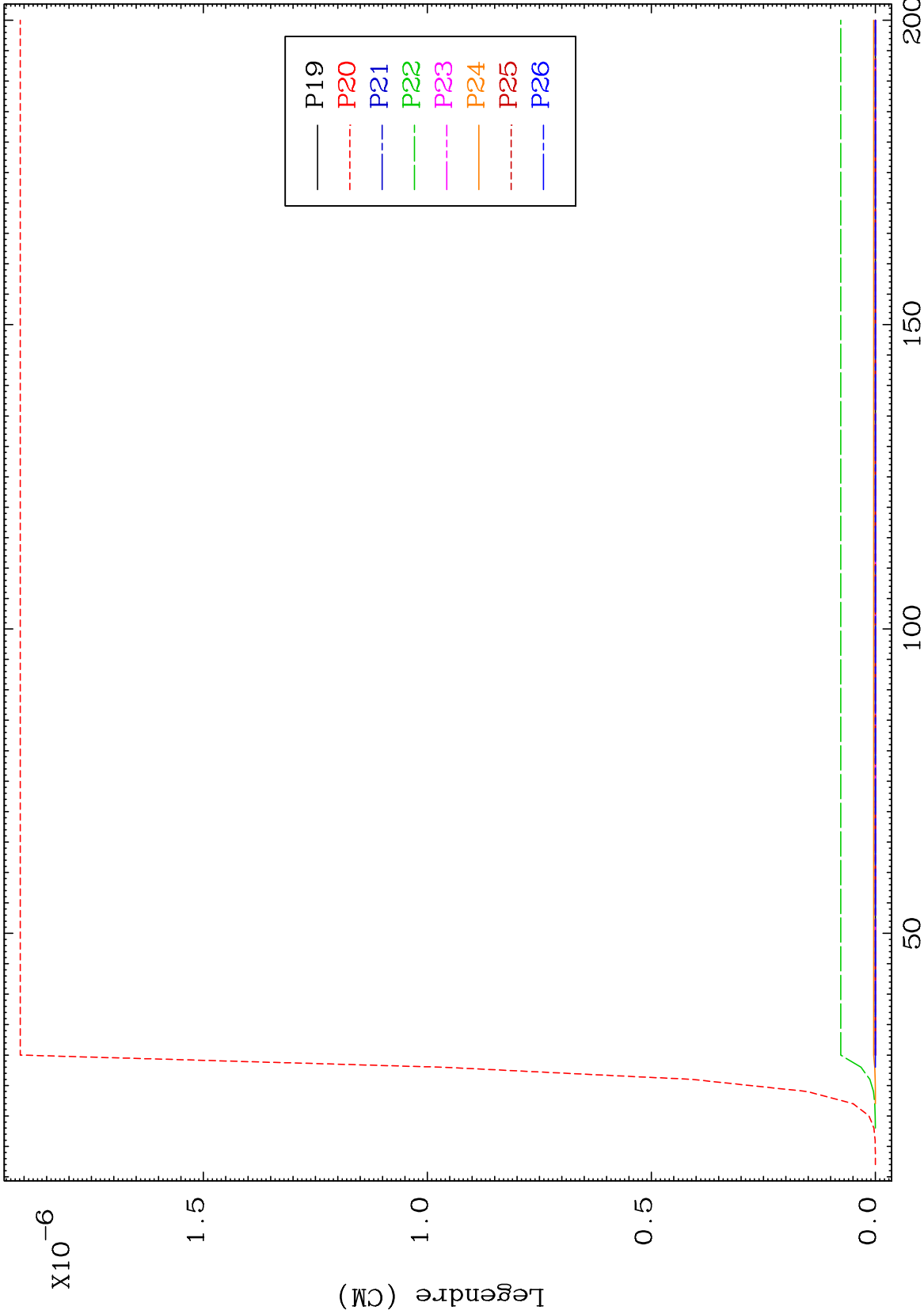
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156

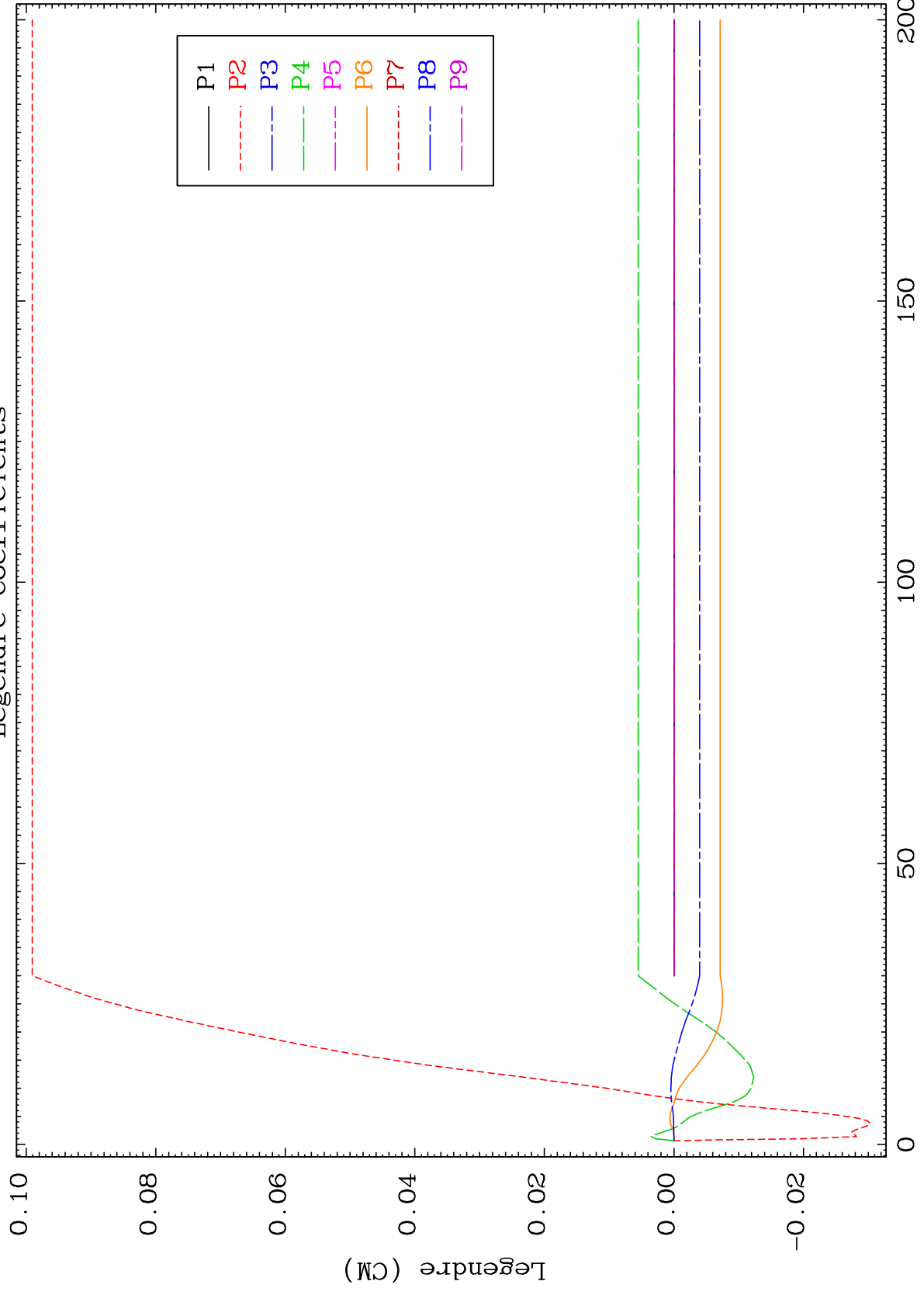


45

Incident Energy (MeV)

61-Pm-156

MAT 6176 MT= 59 (n,n') Level Legendre Coefficients 61-Pm-156

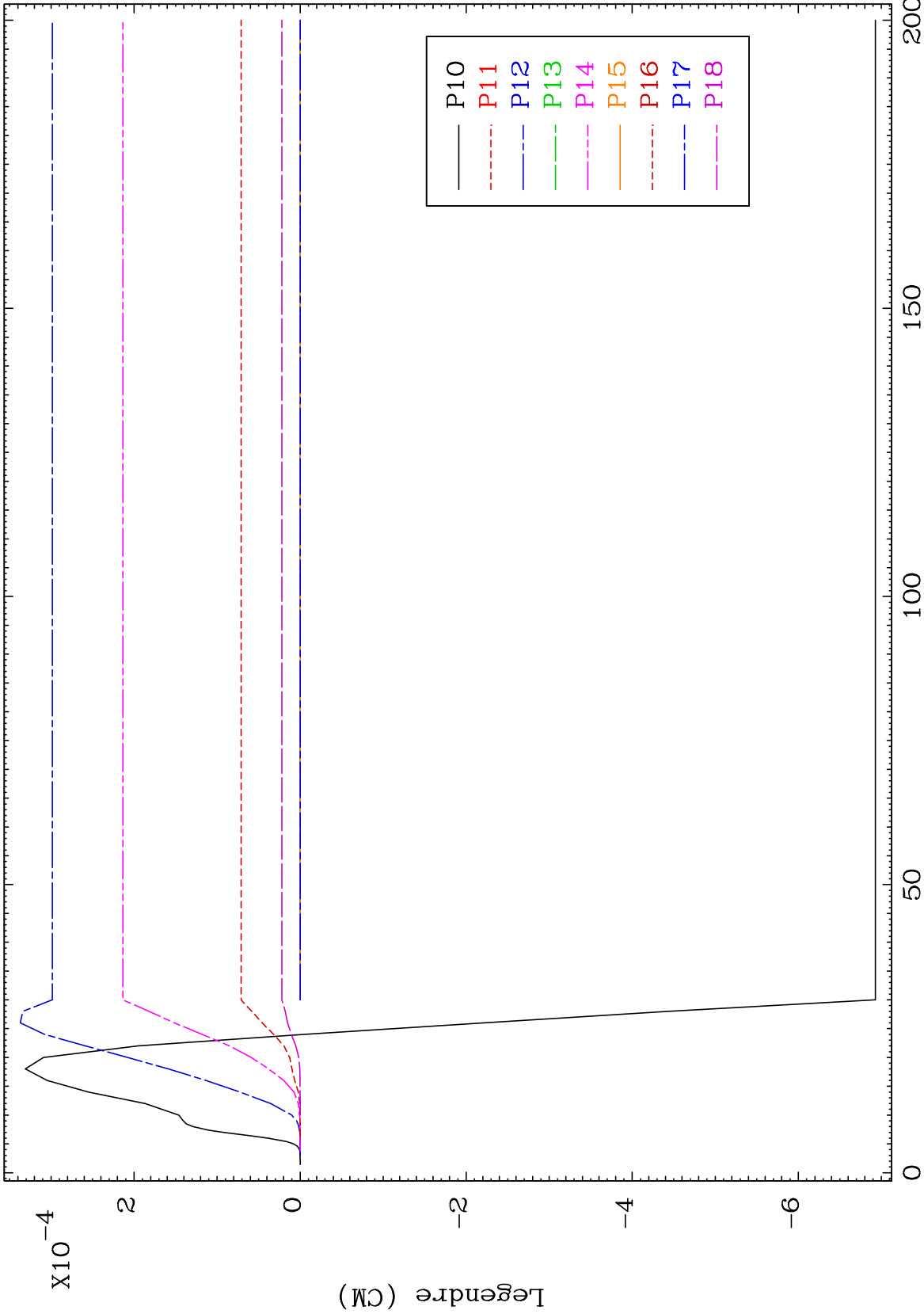


46 61-Pm-156

MAT 6176

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

61-Pm-156

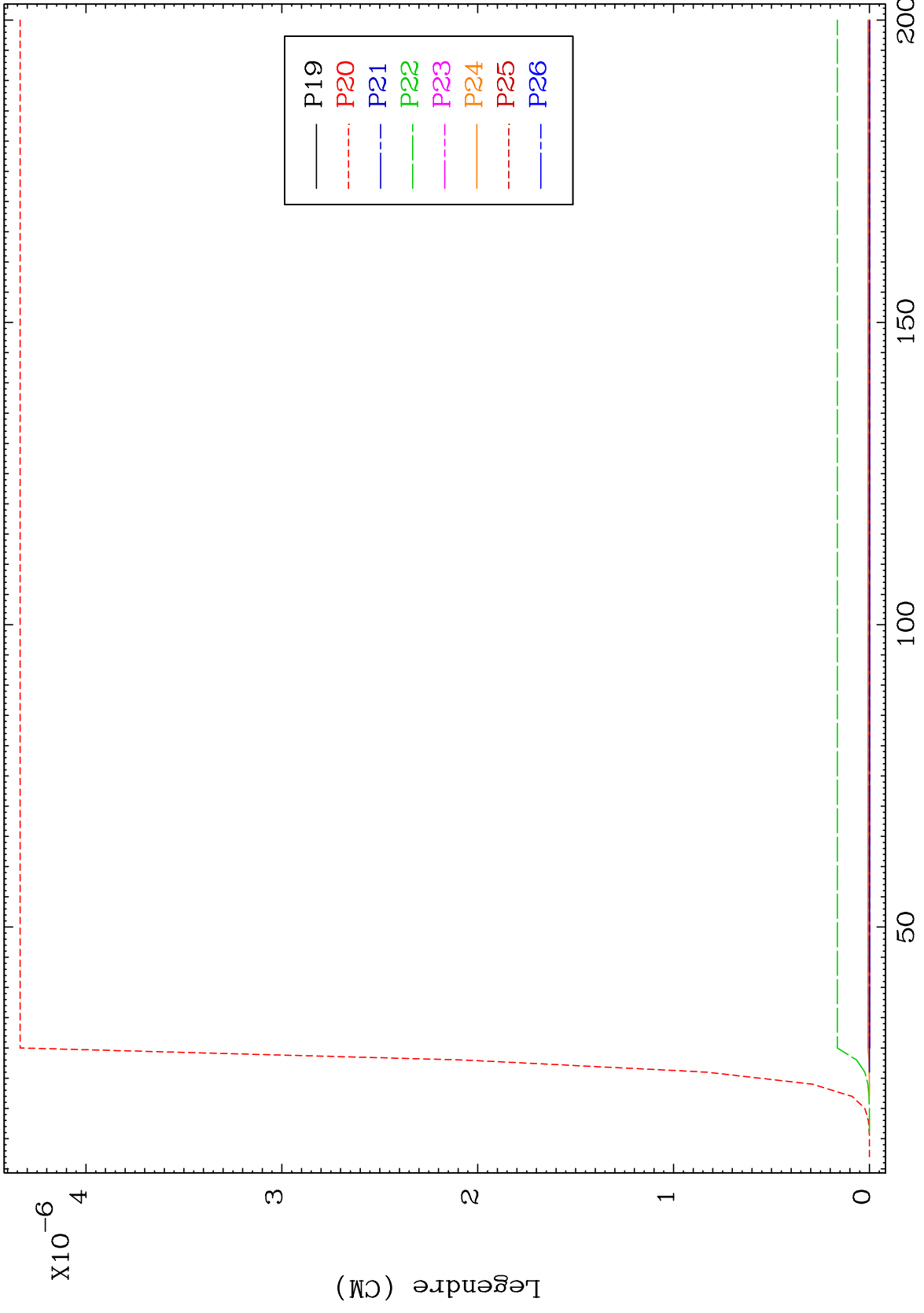


47

61-Pm-156

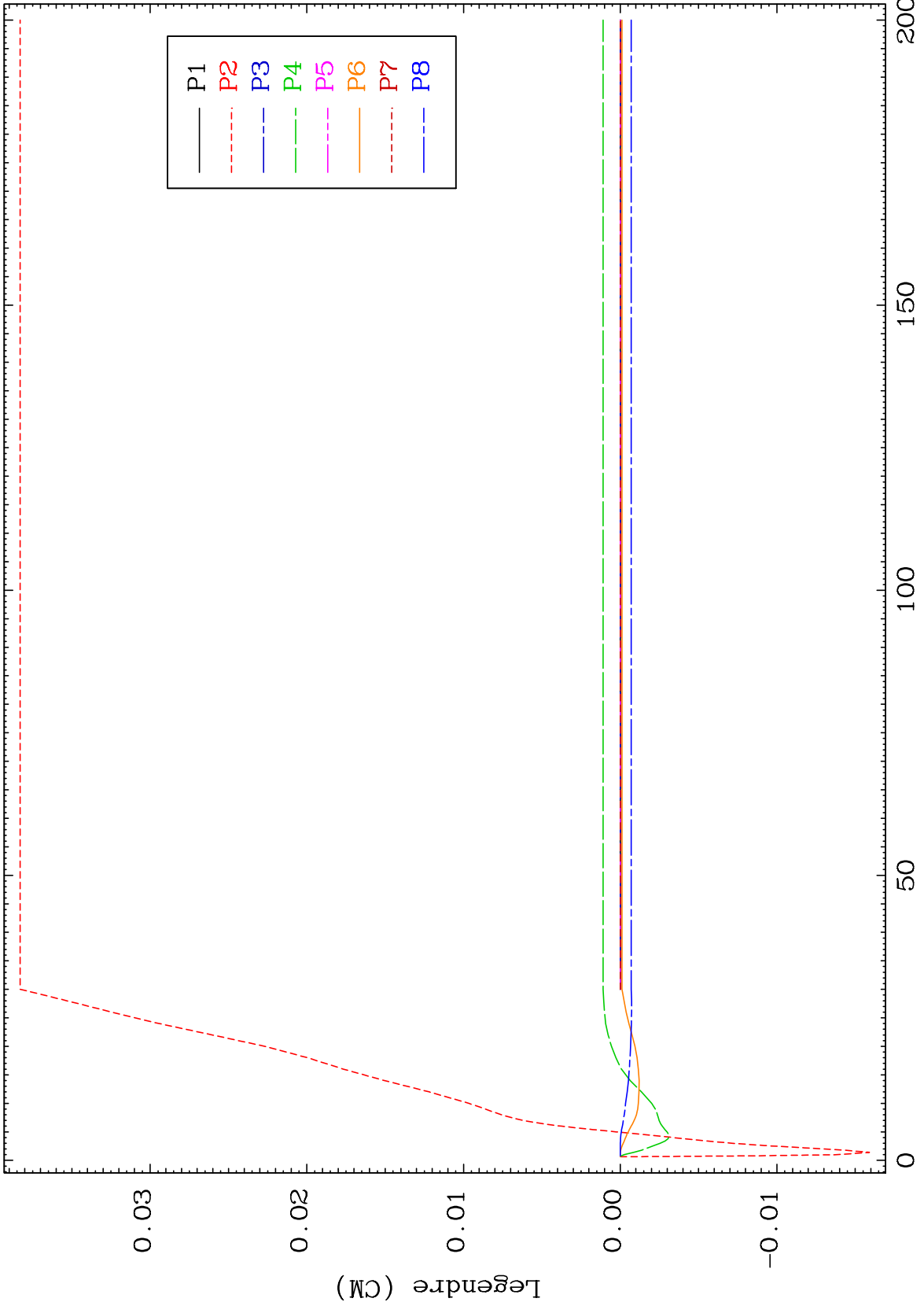


MAT 6176 MT= 59 (n,n') Level Legendre Coefficients 61-Pm-156



48 Incident Energy (MeV) 61-Pm-156

MAT 6176 MT= 60 (n,n') Level Legendre Coefficients 61-Pm-156

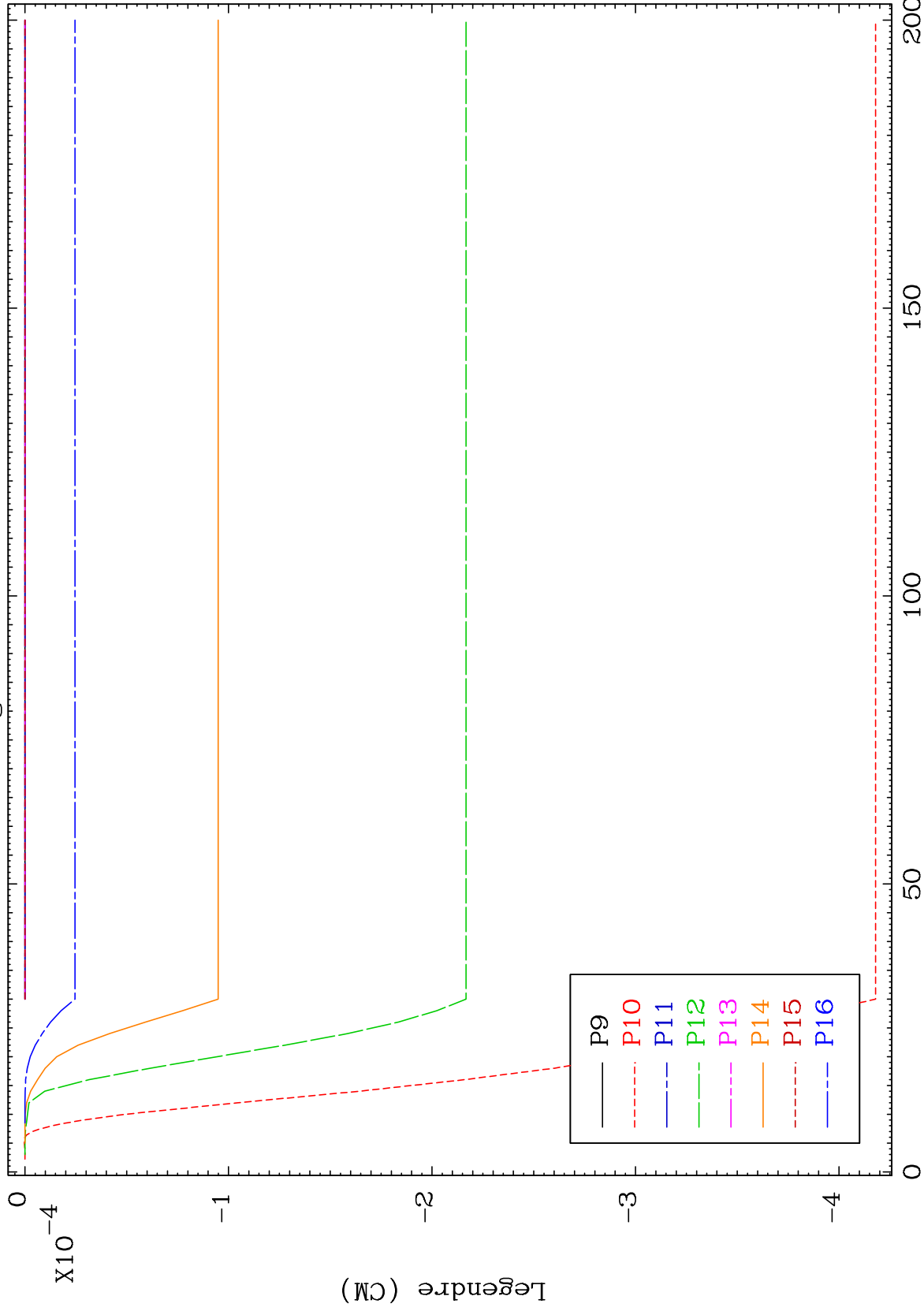


49 Incident Energy (MeV) 61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

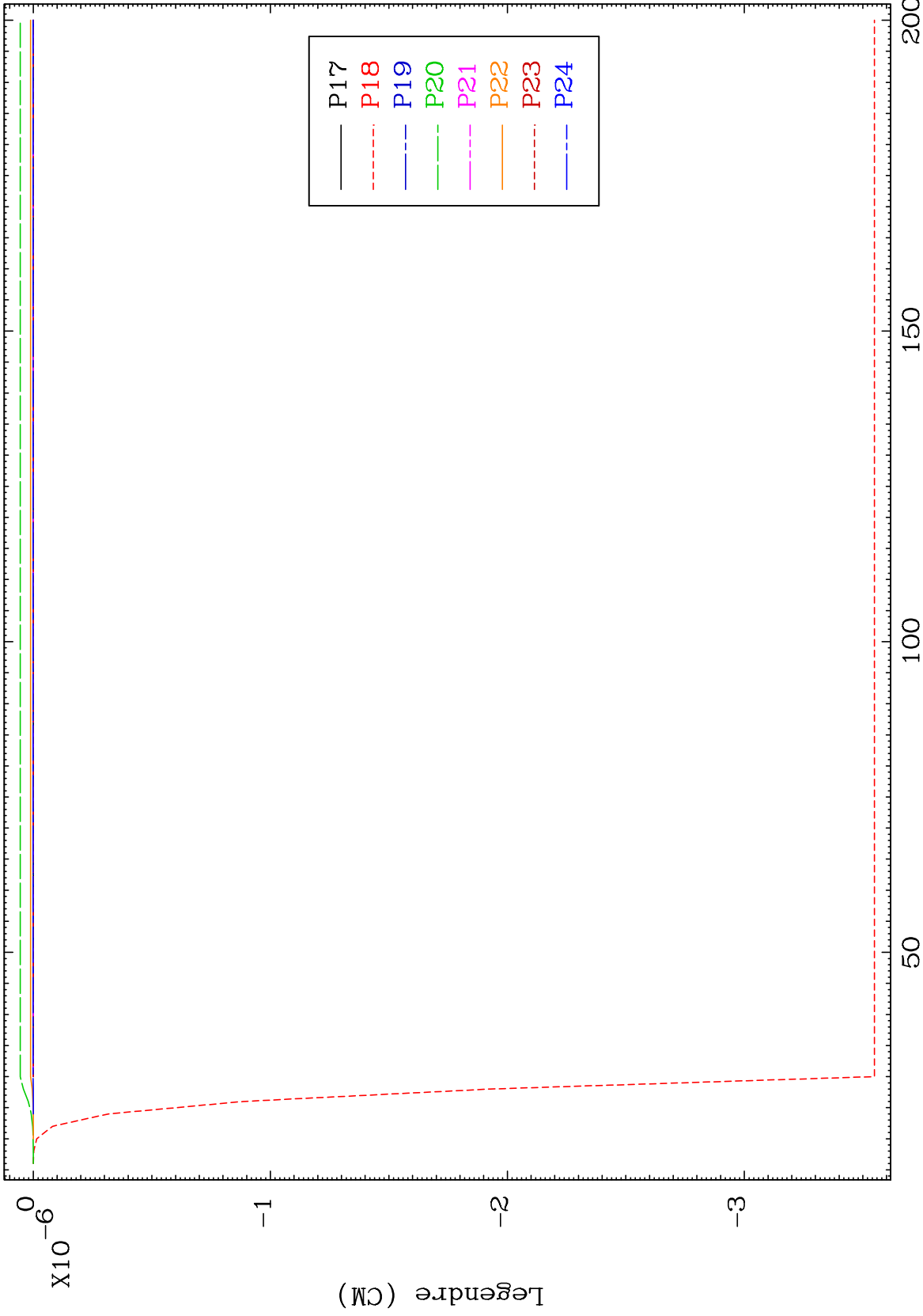
Incident Energy (MeV)

Legendre (CM)

MAT 6176

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

61-Pm-156



51

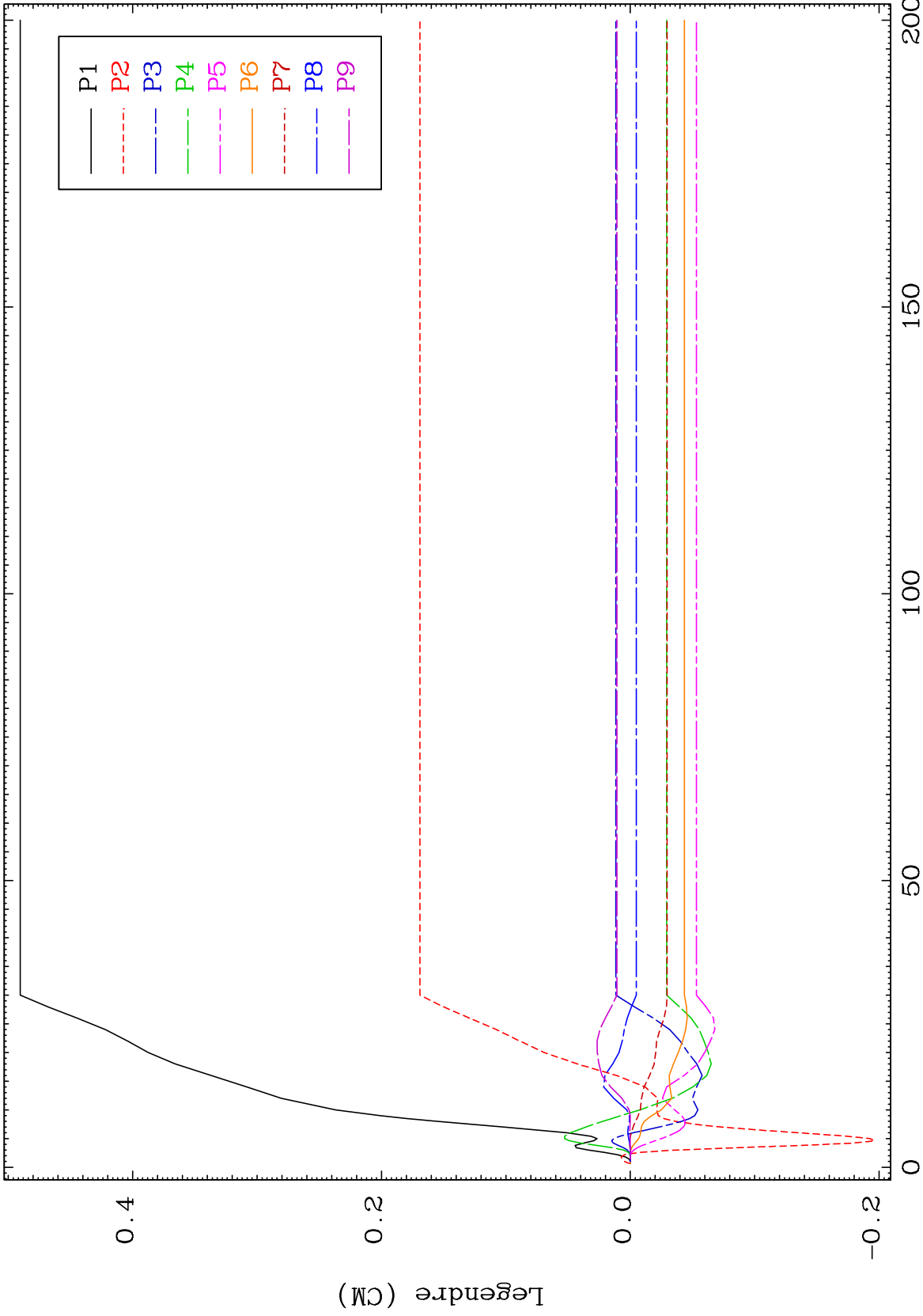
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



52

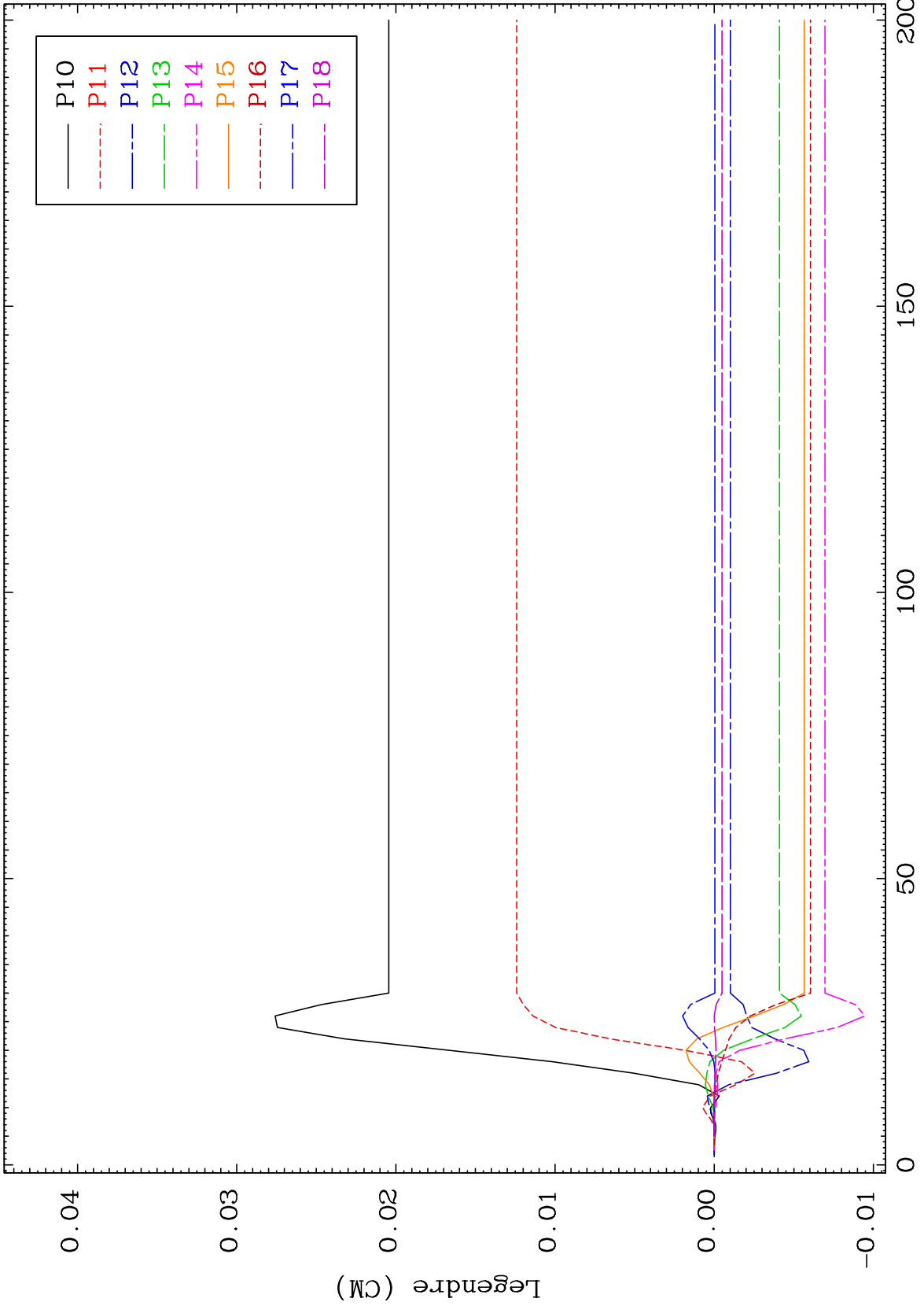
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



53

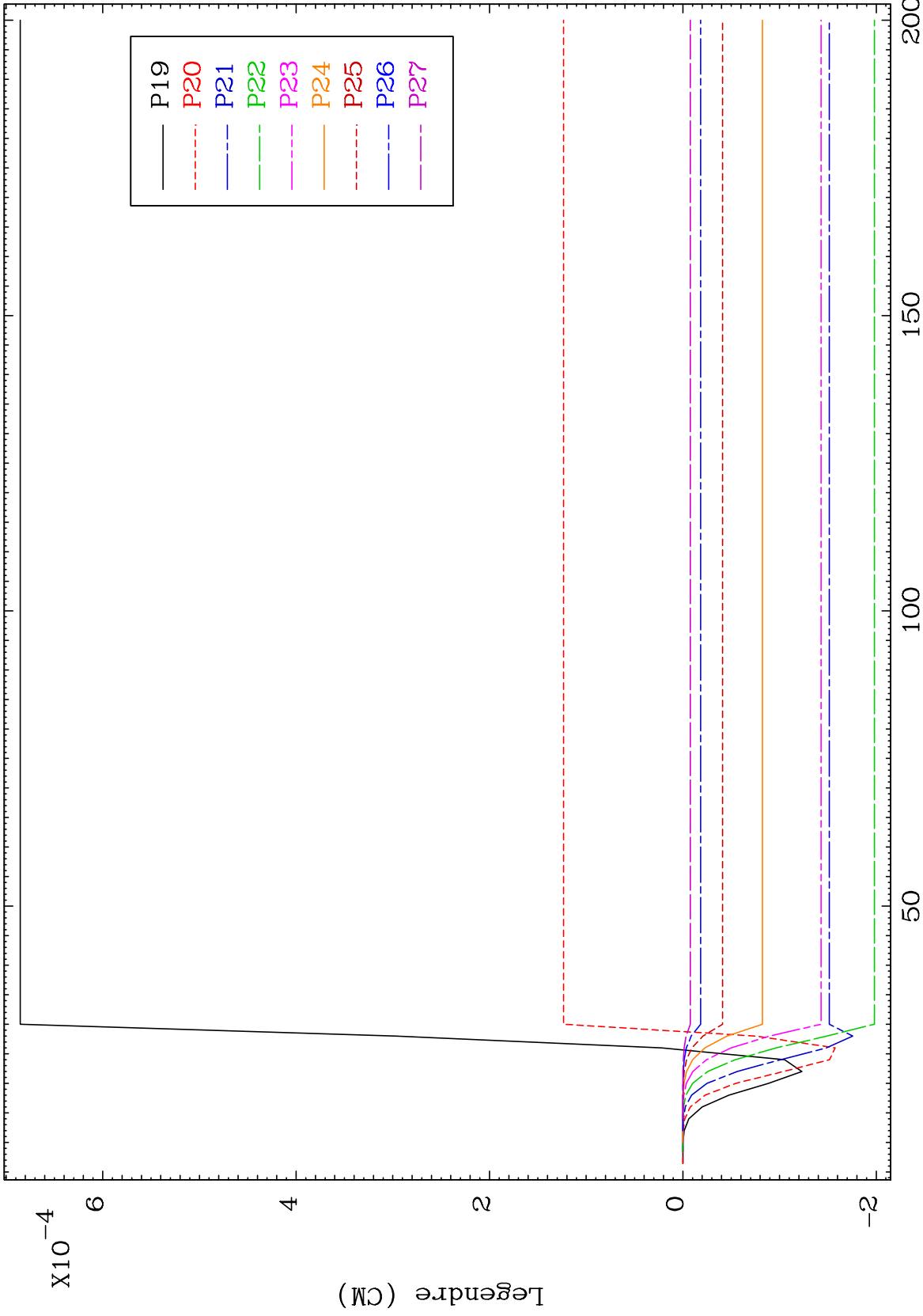
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



54

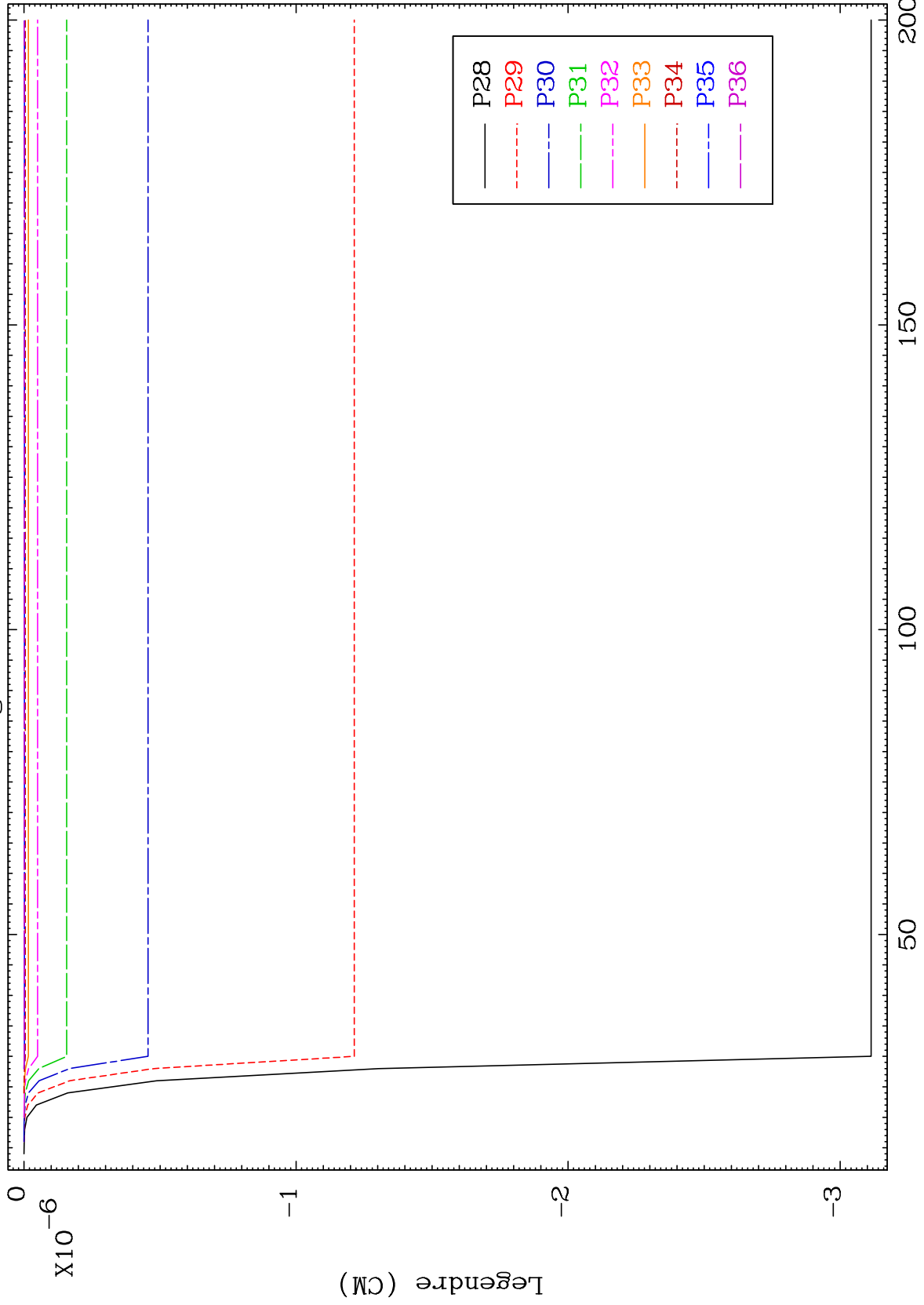
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



55

Incident Energy (MeV)

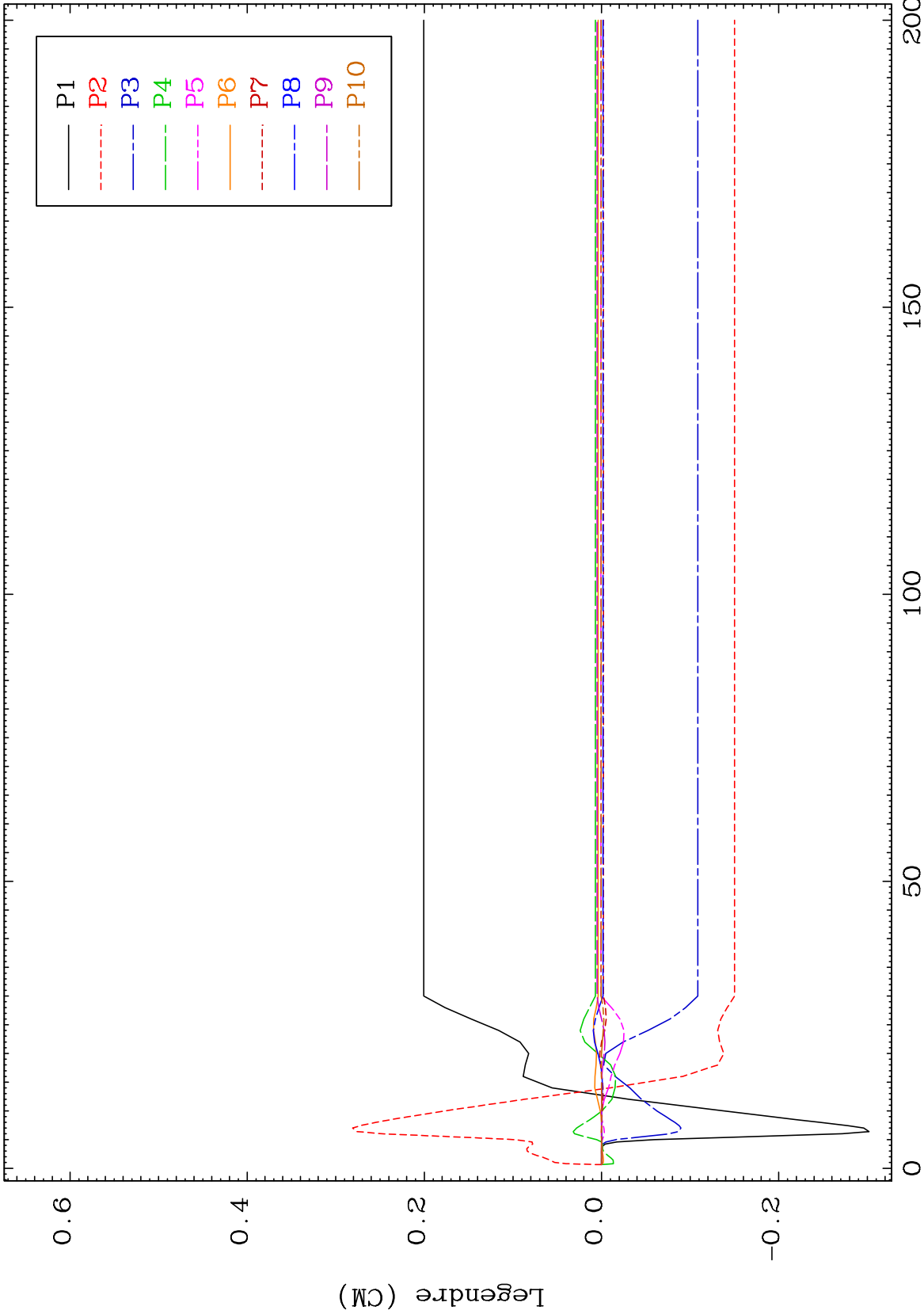
61-Pm-156



MAT 6176

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

61-Pm-156



56

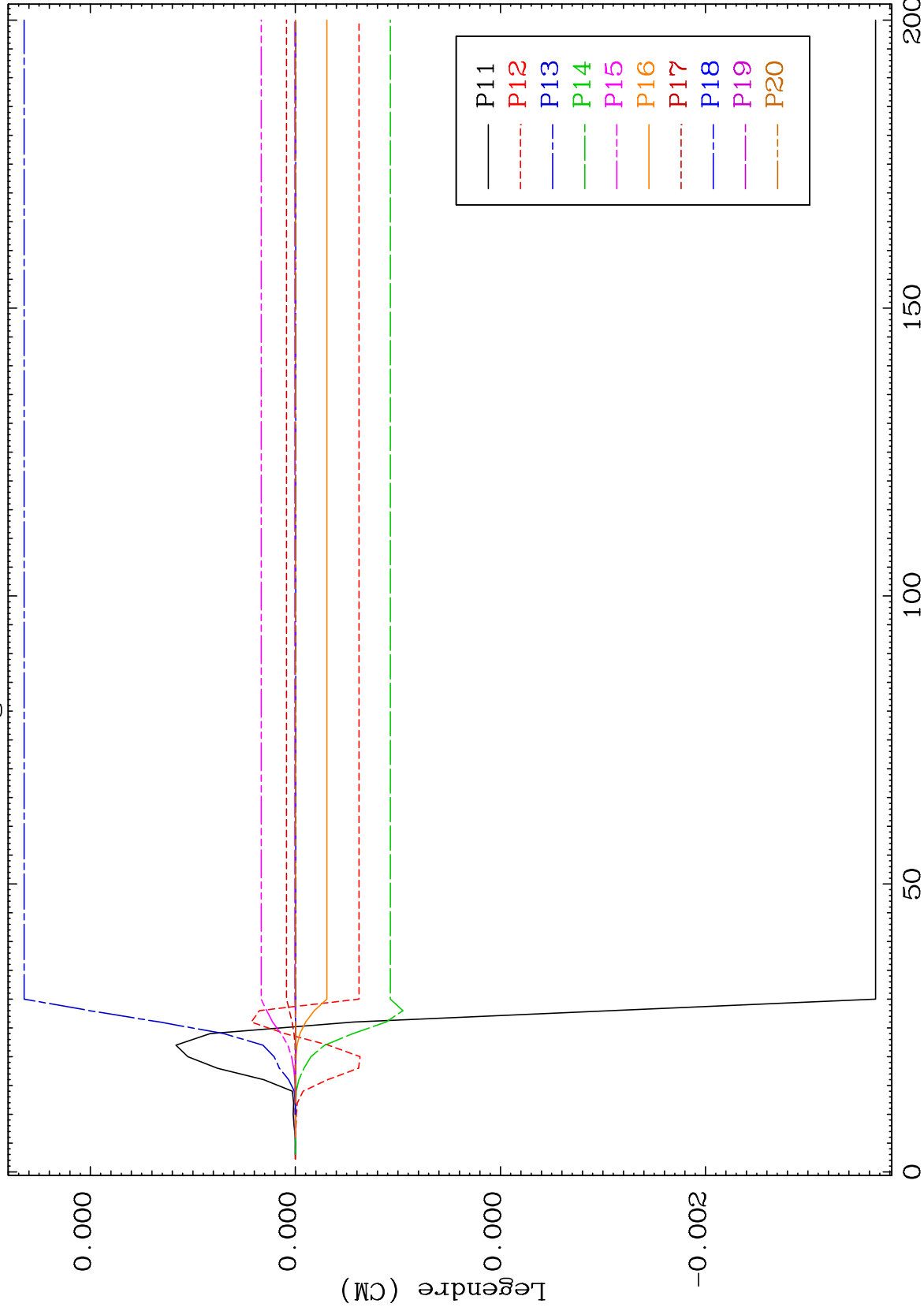
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



57

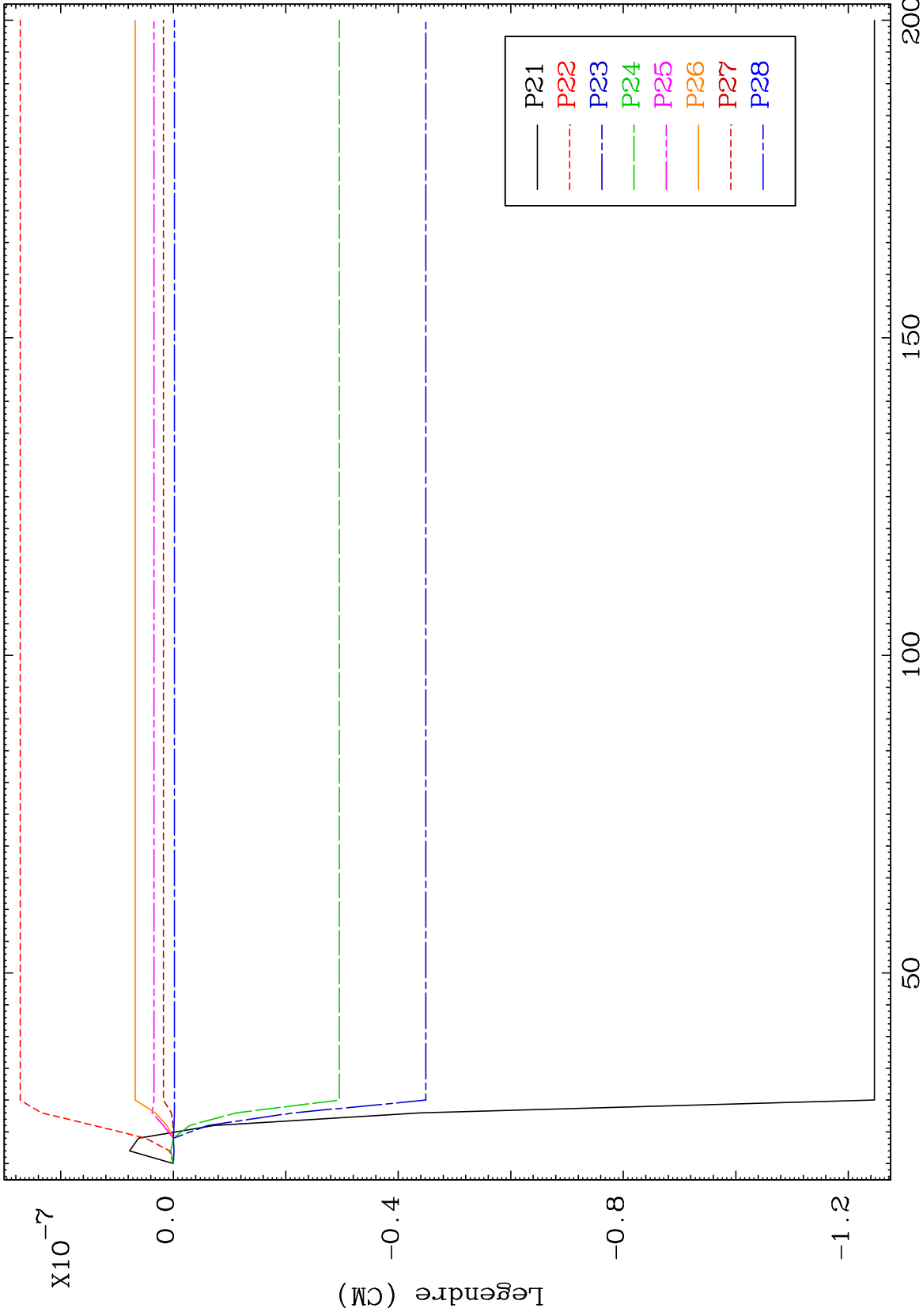
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



58

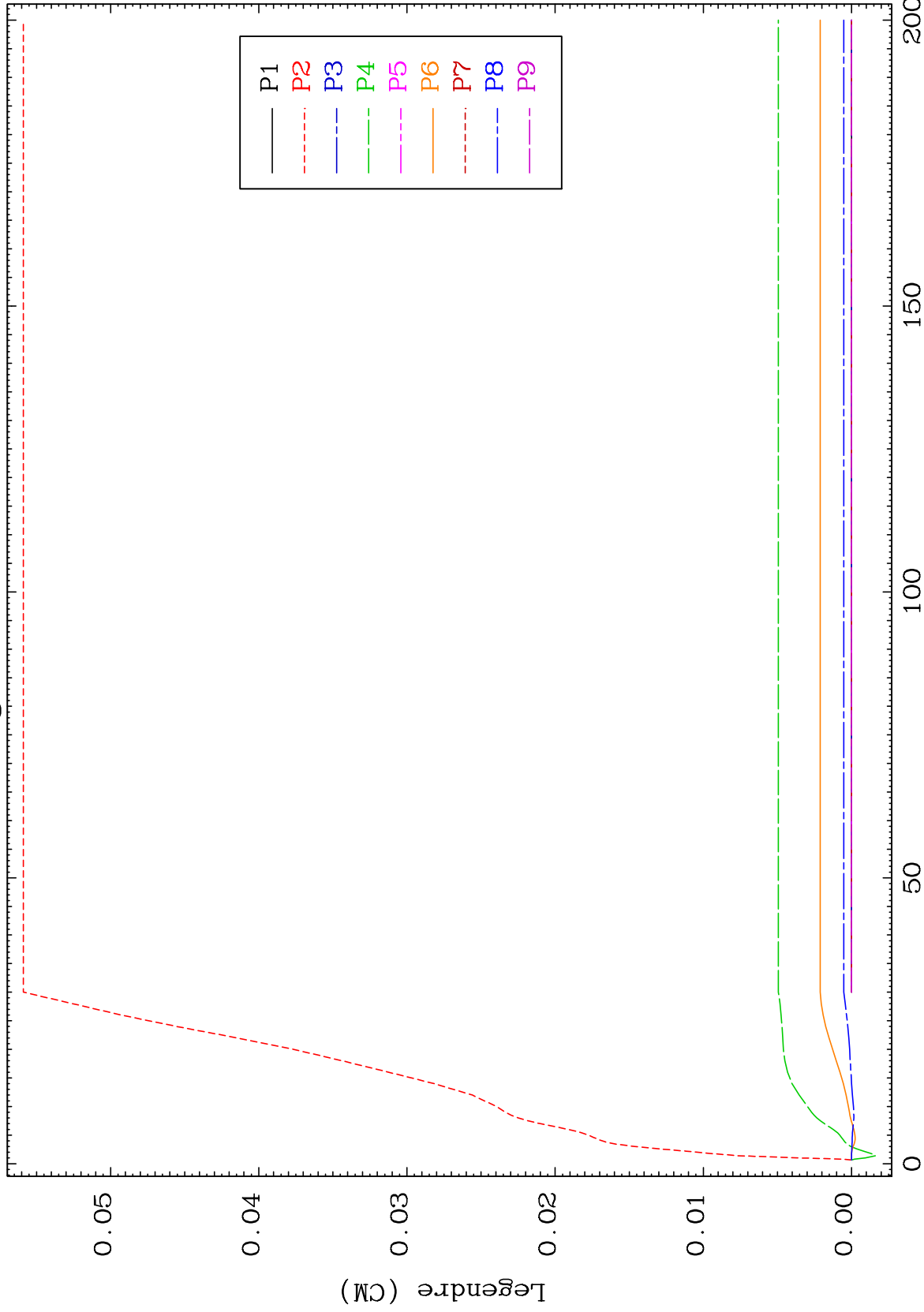
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



59

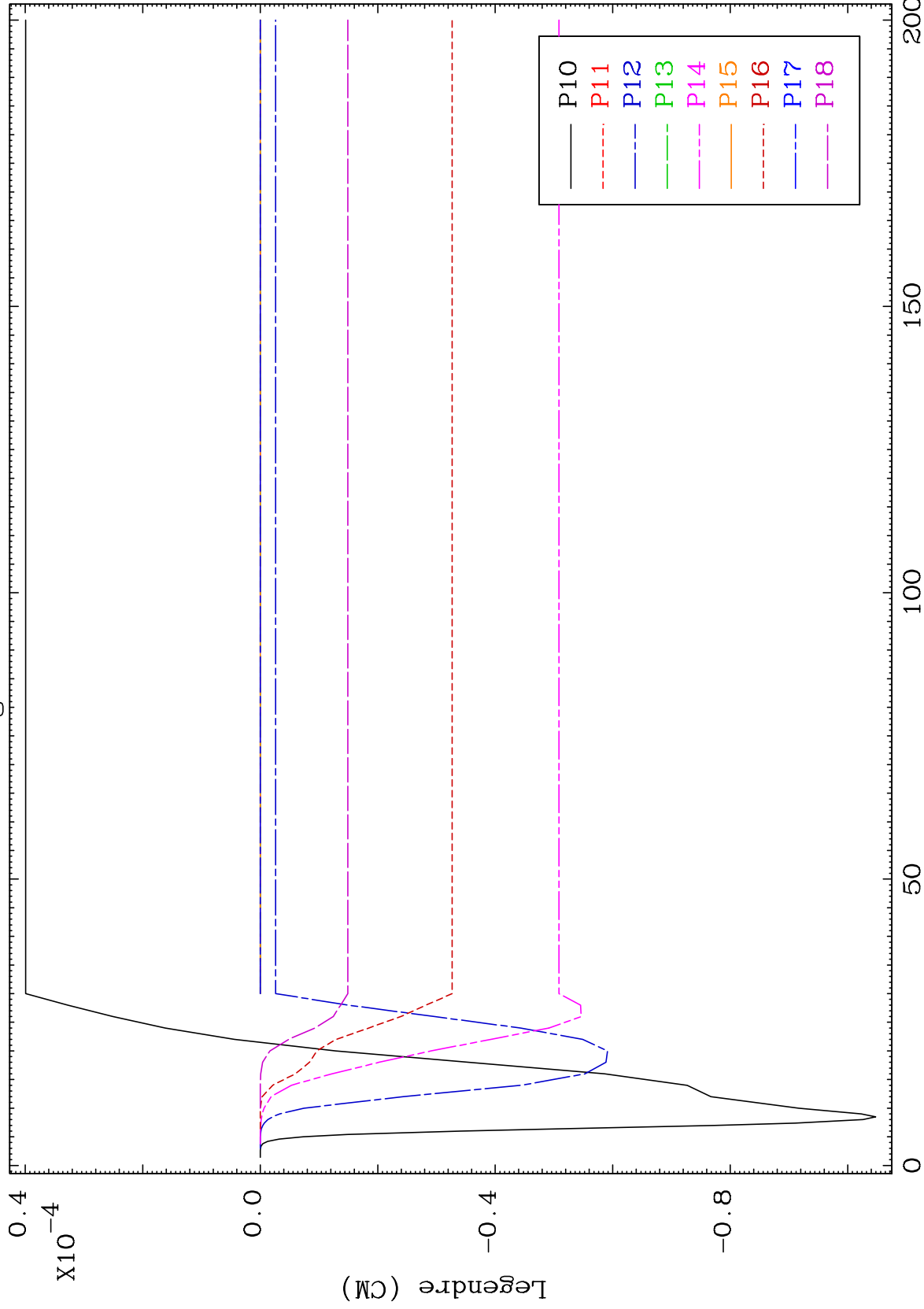
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156

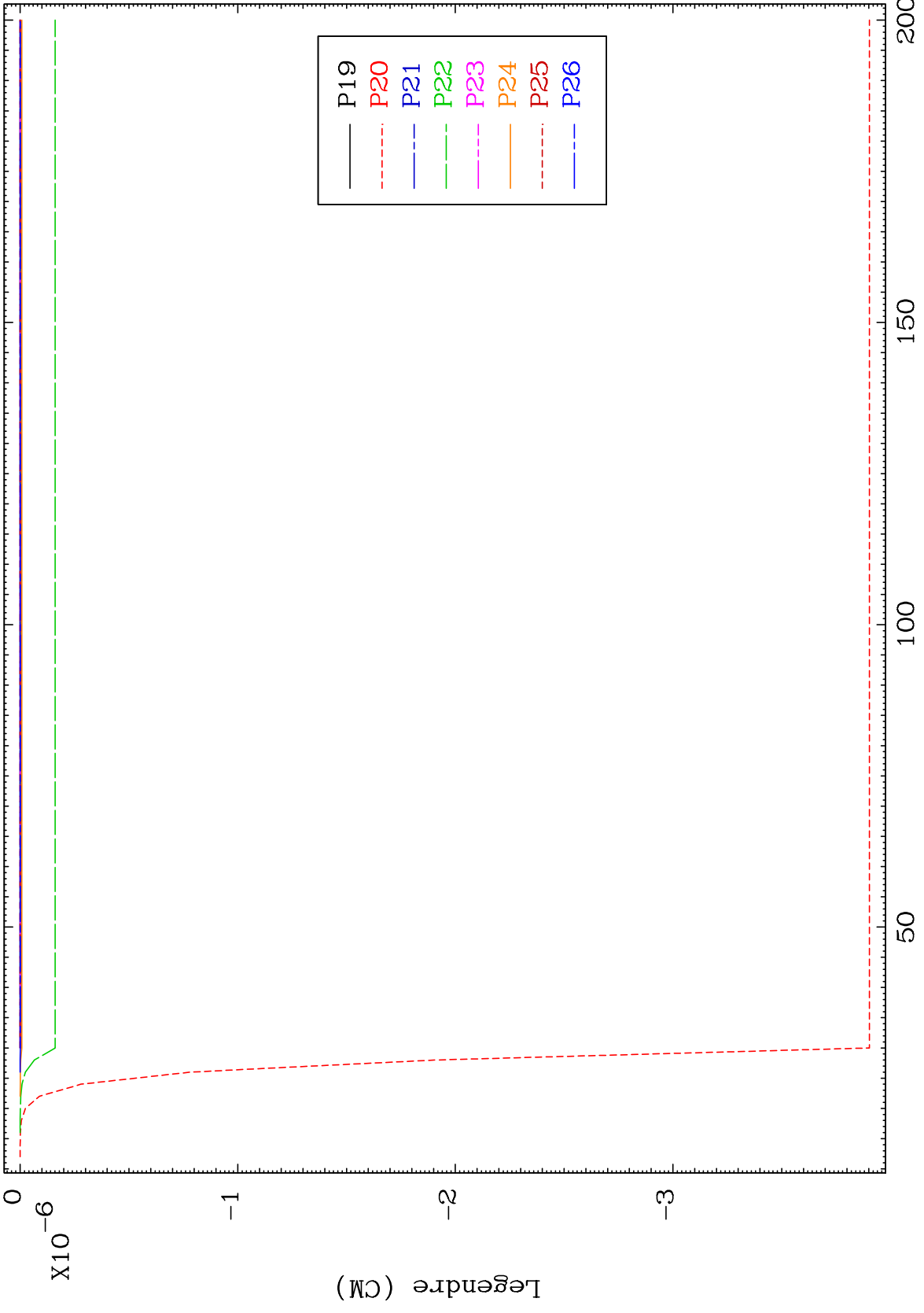


61-Pm-156

Incident Energy (MeV)

60

MAT 6176 MT= 63 (n,n') Level Legendre Coefficients 61-Pm-156

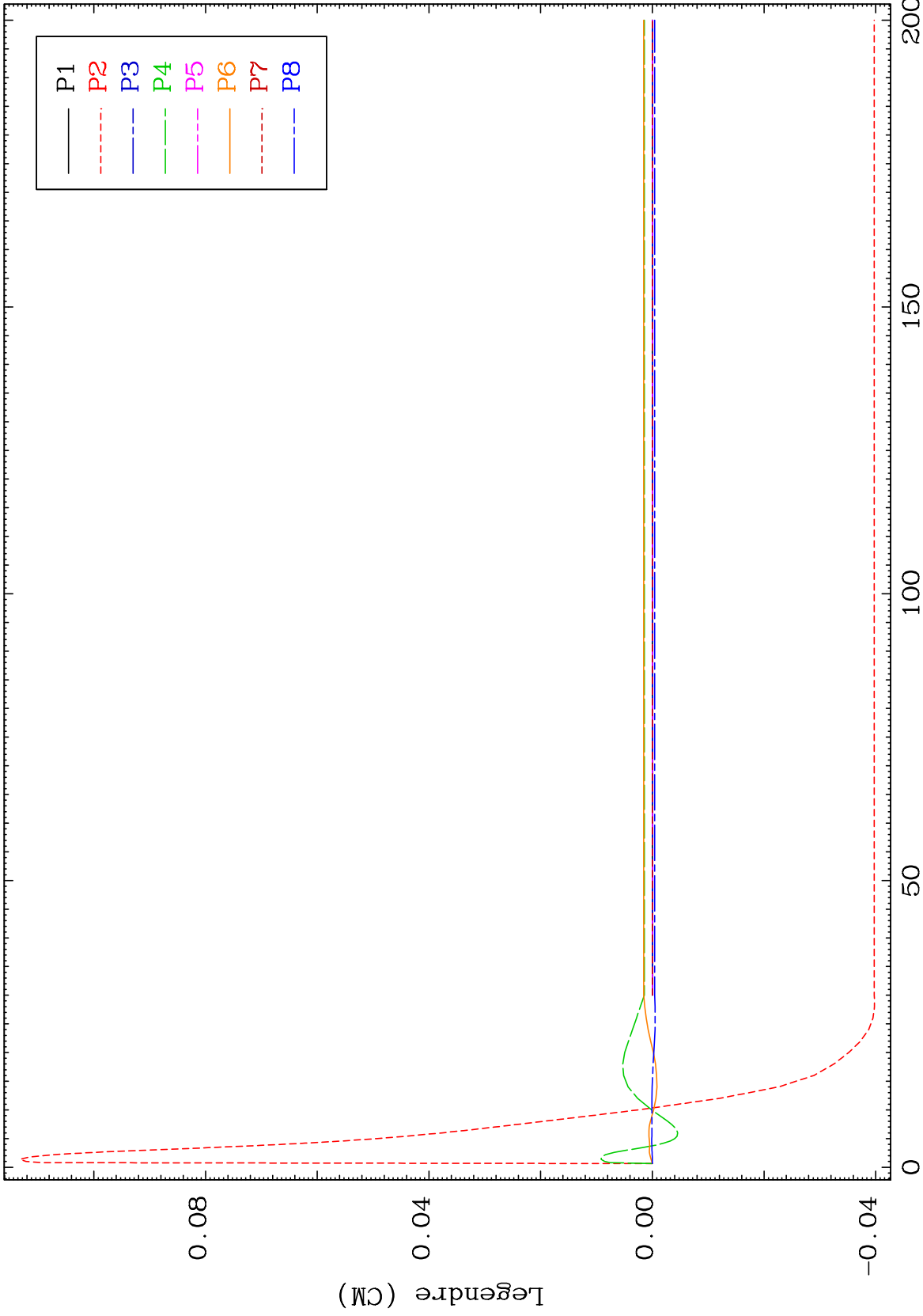


61 61-Pm-156

MAT 6176

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

61-Pm-156



62

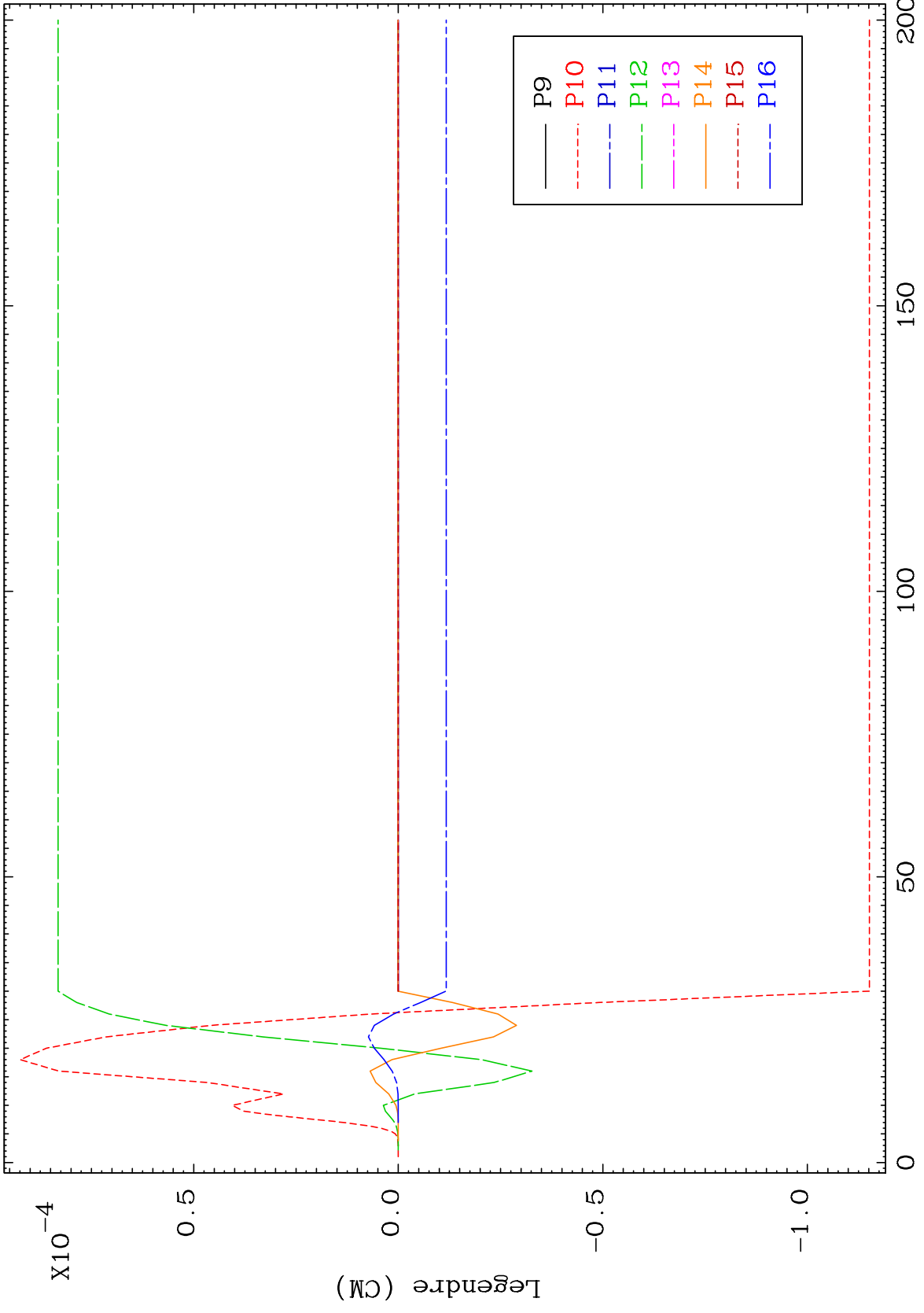
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



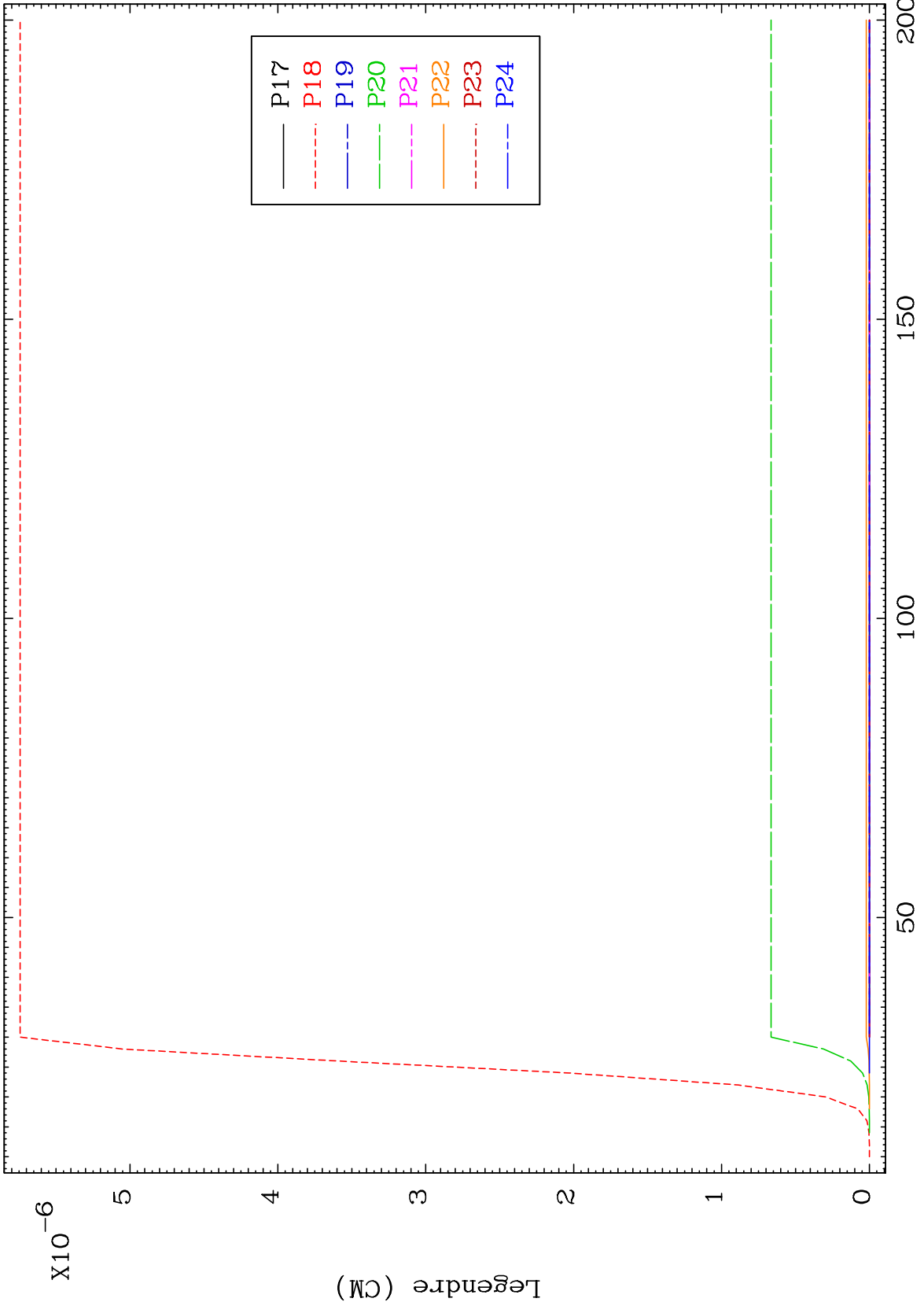
63

Incident Energy (MeV)

61-Pm-156



MAT 6176 MT= 64 (n,n') Level Legendre Coefficients 61-Pm-156

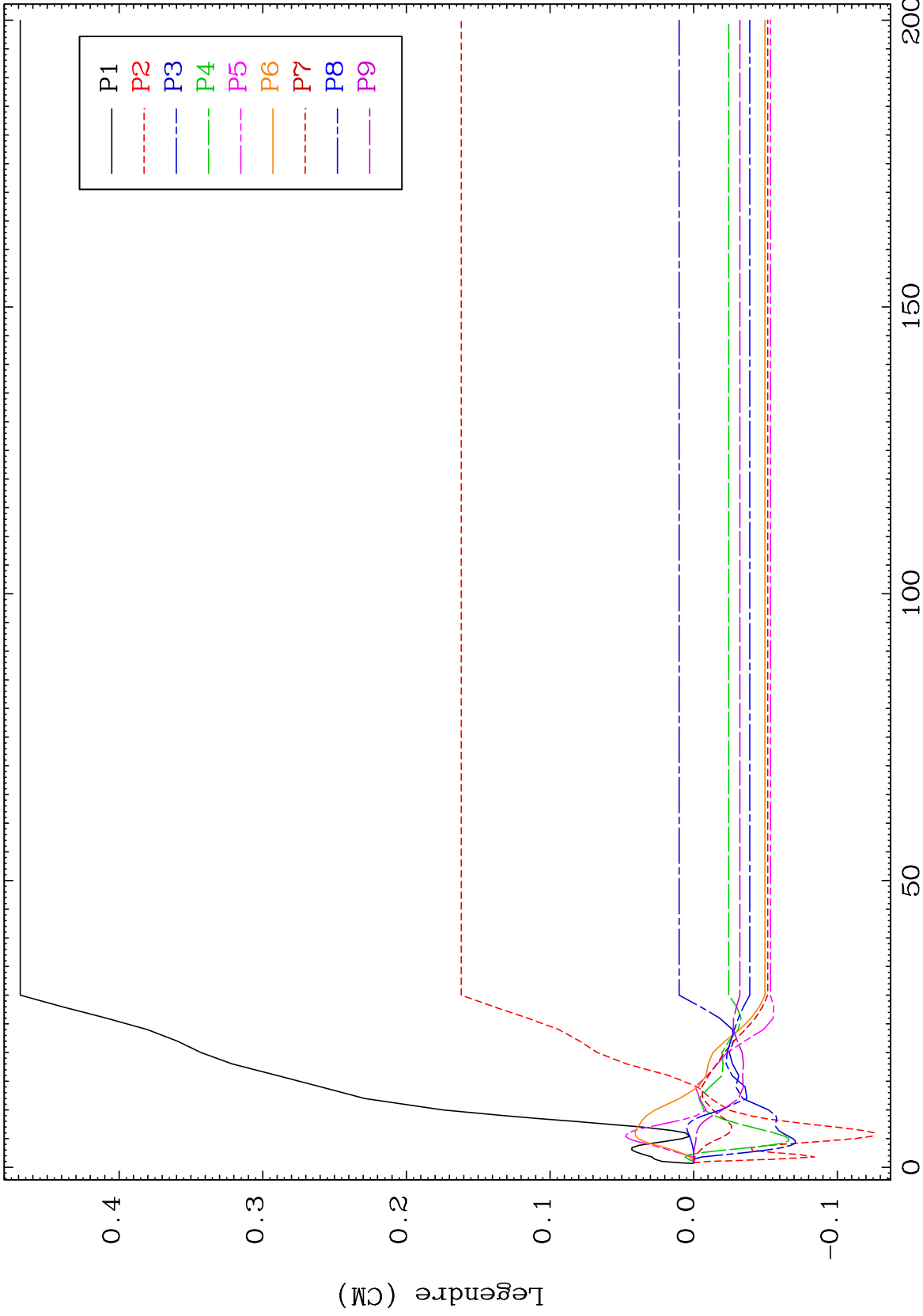


64 61-Pm-156

MAT 6176

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

61-Pm-156



65

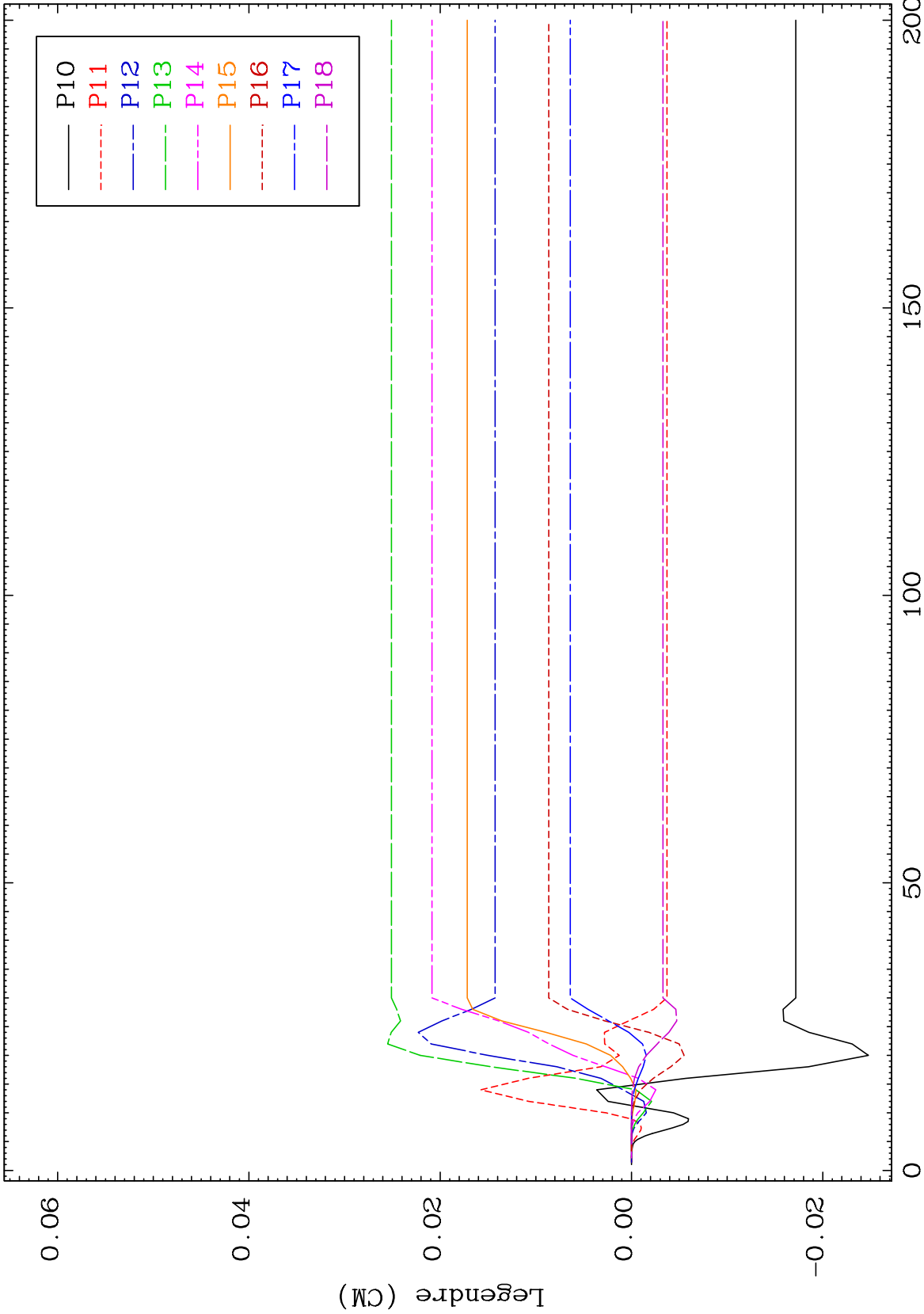
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



66

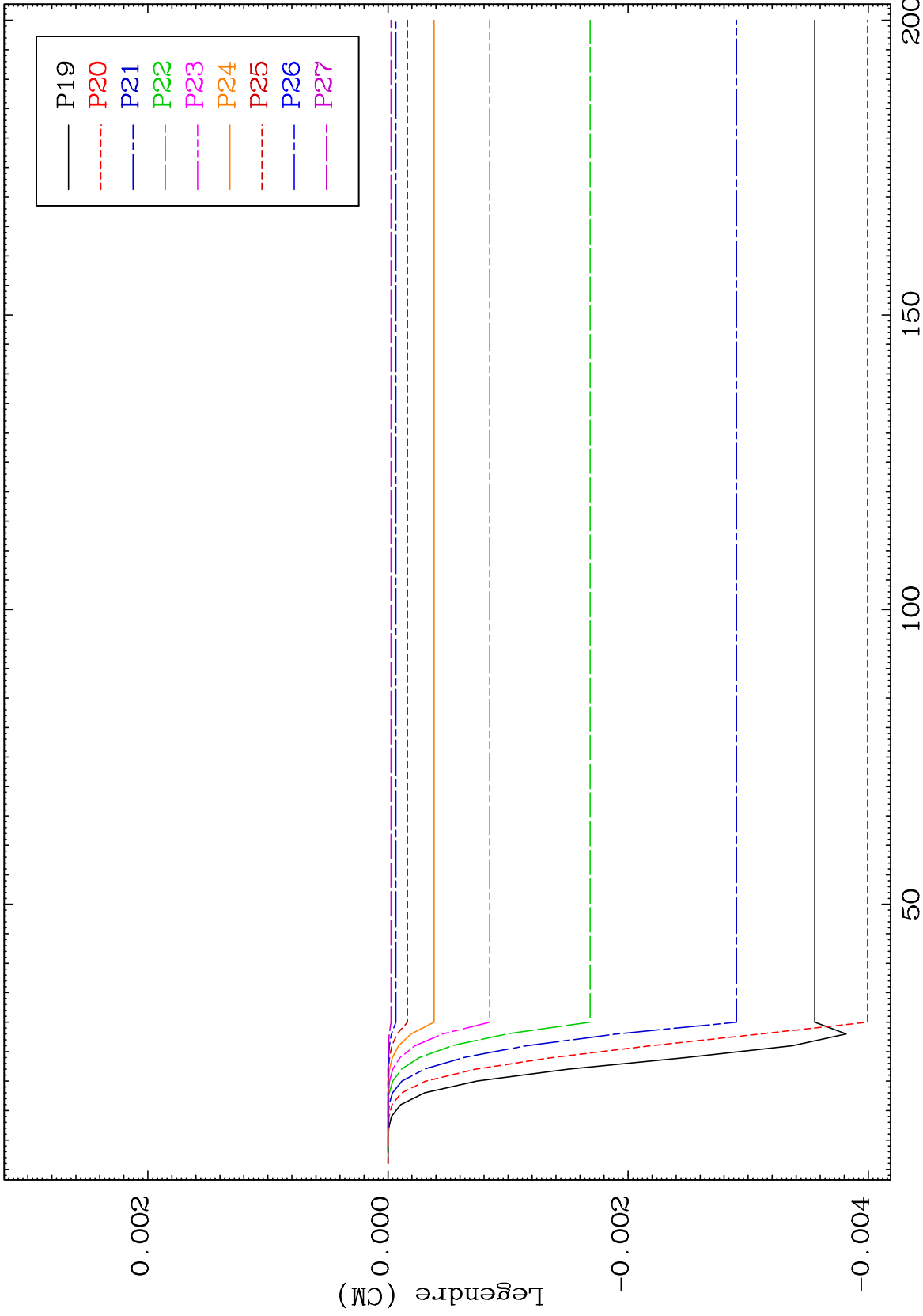
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



67

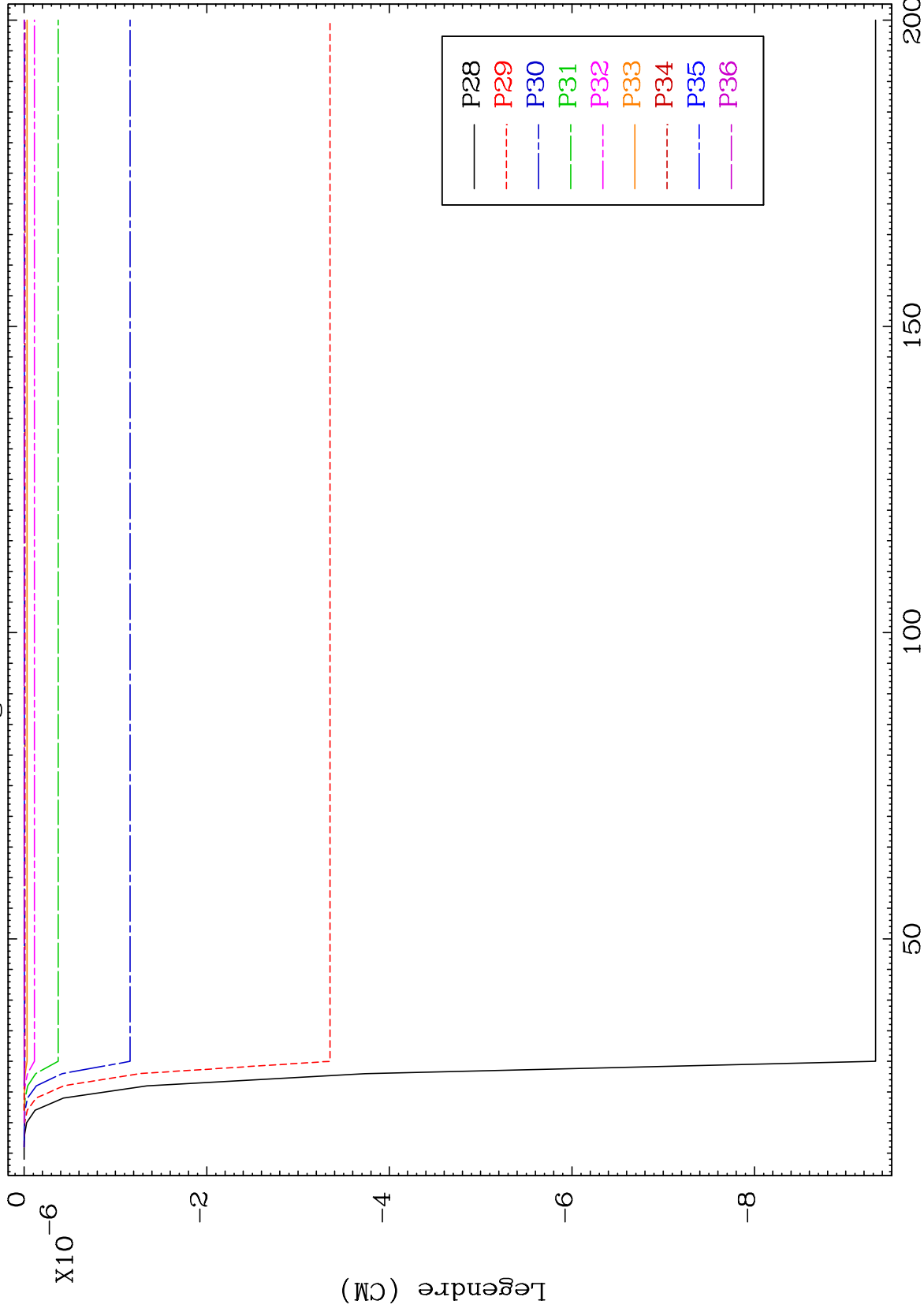
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156

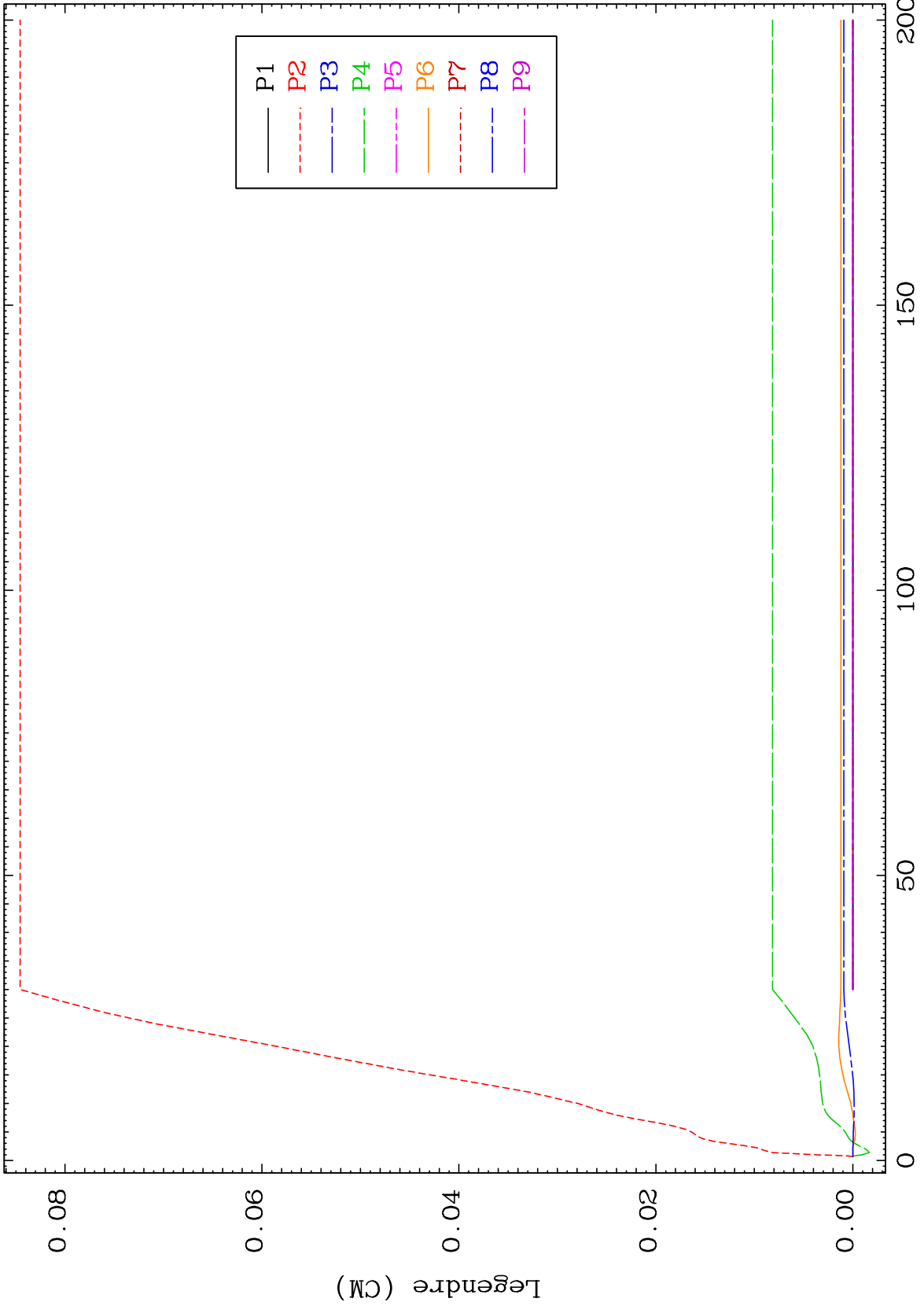


68

Incident Energy (MeV)

61-Pm-156

MAT 6176 MT= 66 (n,n') Level Legendre Coefficients 61-Pm-156

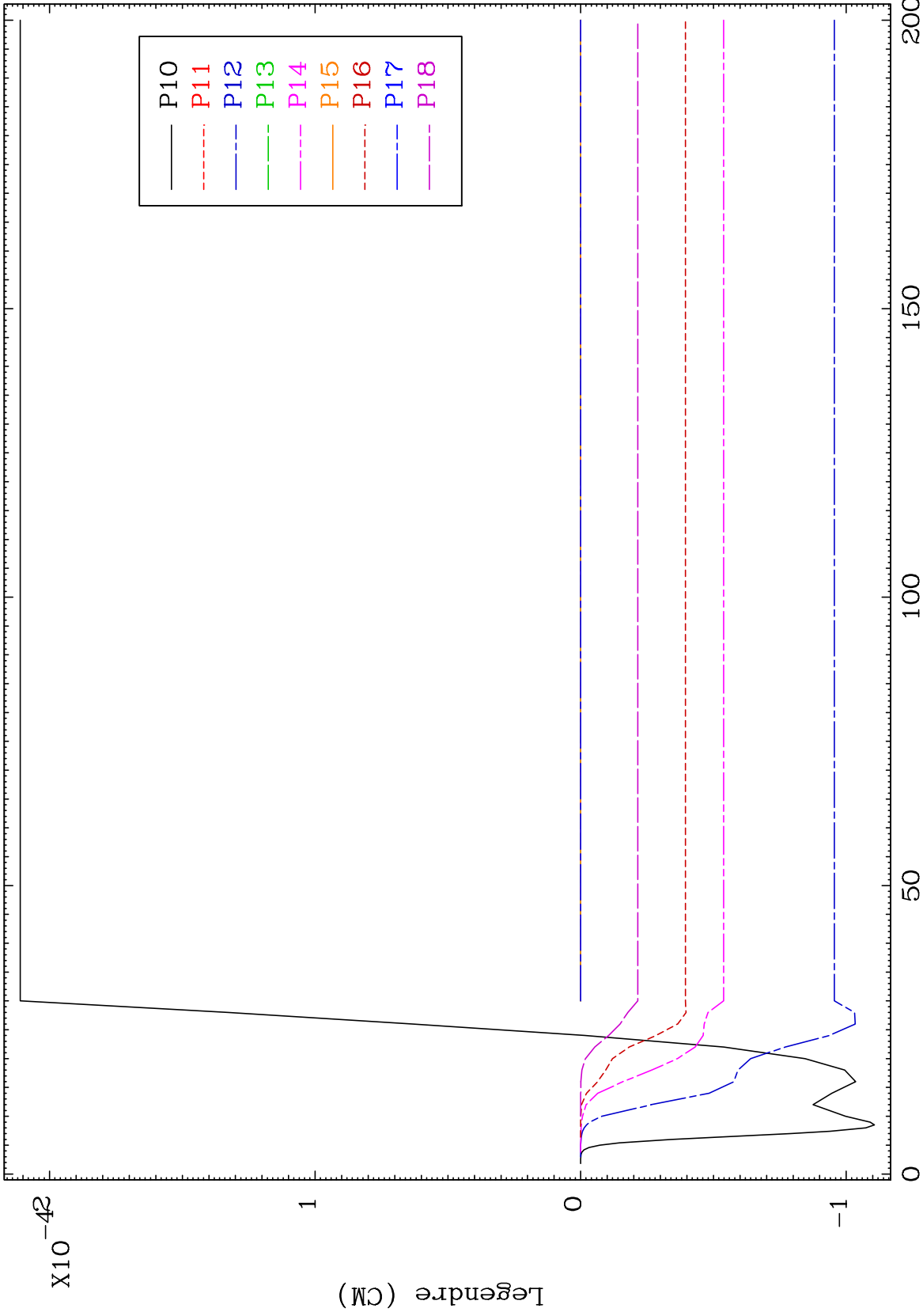


69 61-Pm-156

MAT 6176

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

61-Pm-156



70

Incident Energy (MeV)

150

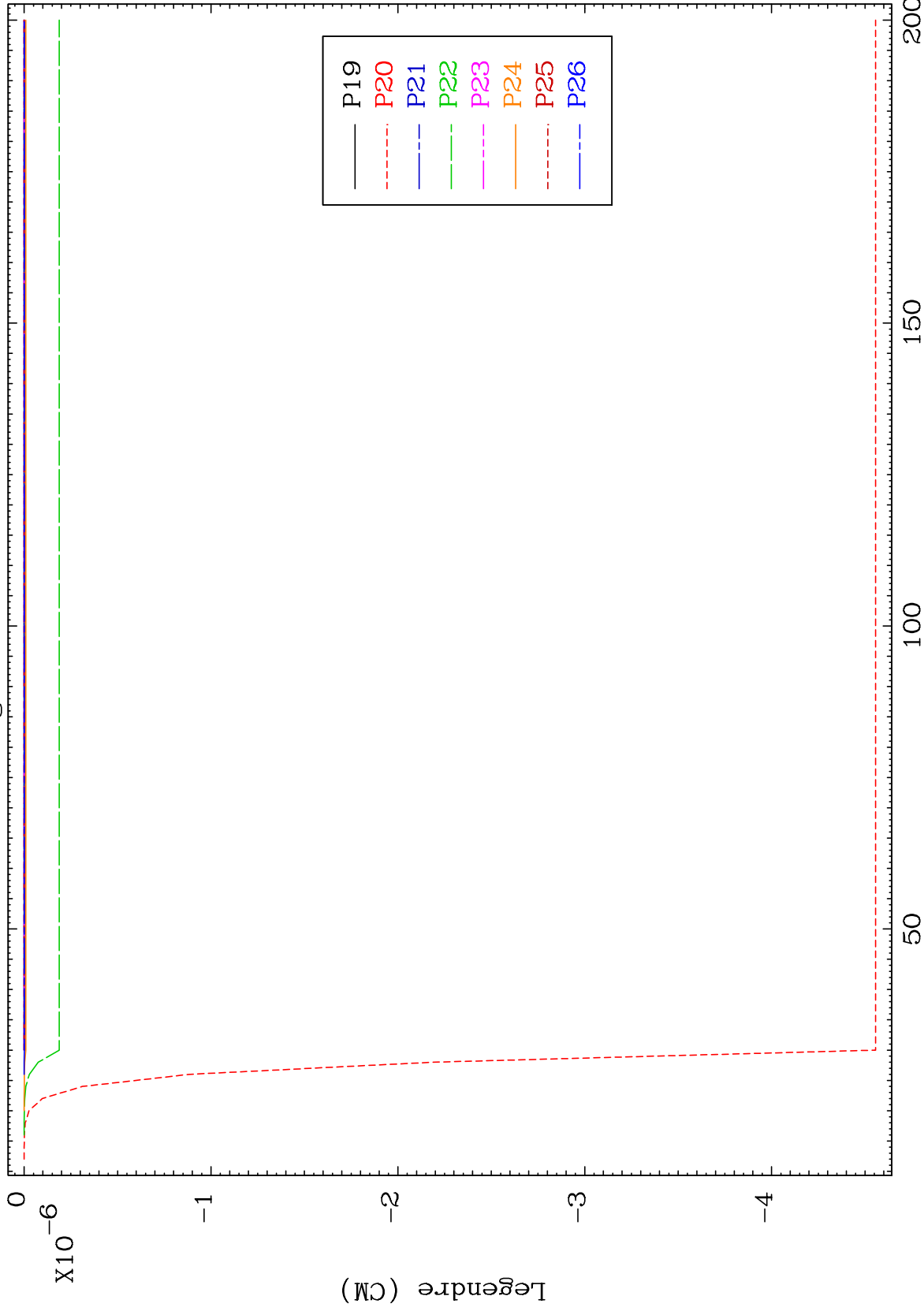
61-Pm-156

200

MAT 6176 MT= 66 (n,n') Level

61-Pm-156

Legendre Coefficients



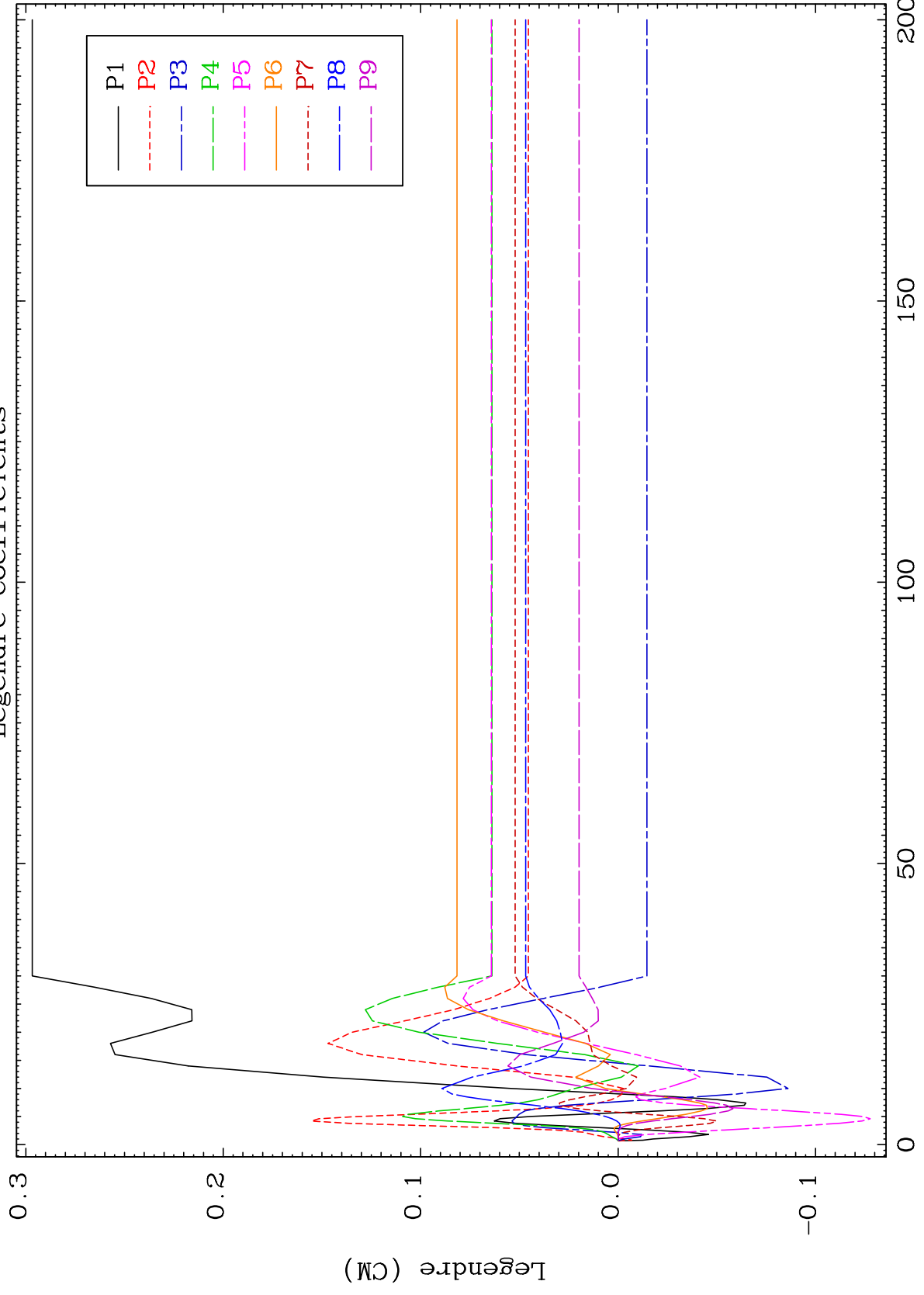
61-Pm-156

Incident Energy (MeV)

71



MAT 6176 MT= 67 (n,n') Level Legendre Coefficients 61-Pm-156

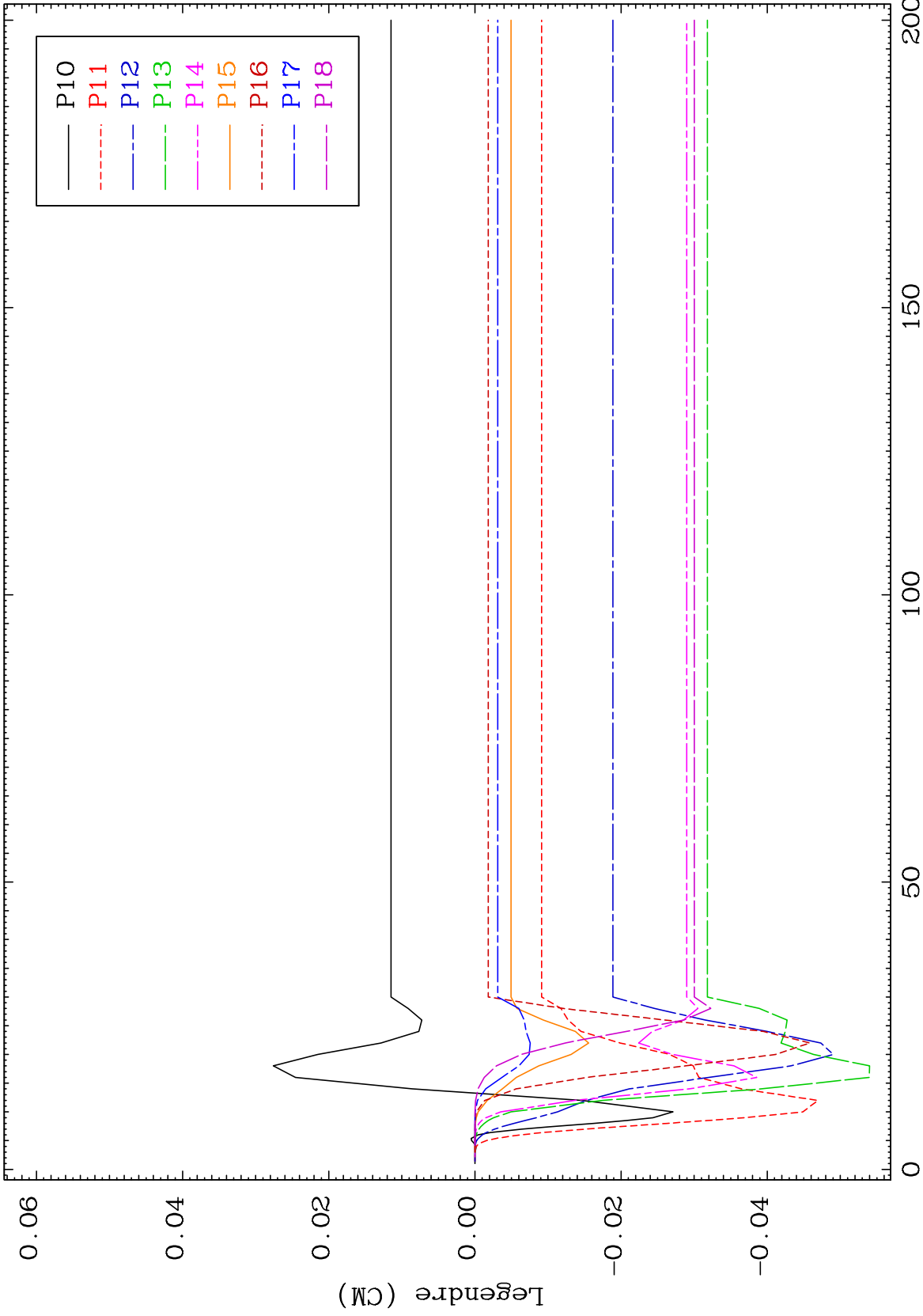


72 61-Pm-156

MAT 6176

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

61-Pm-156



73

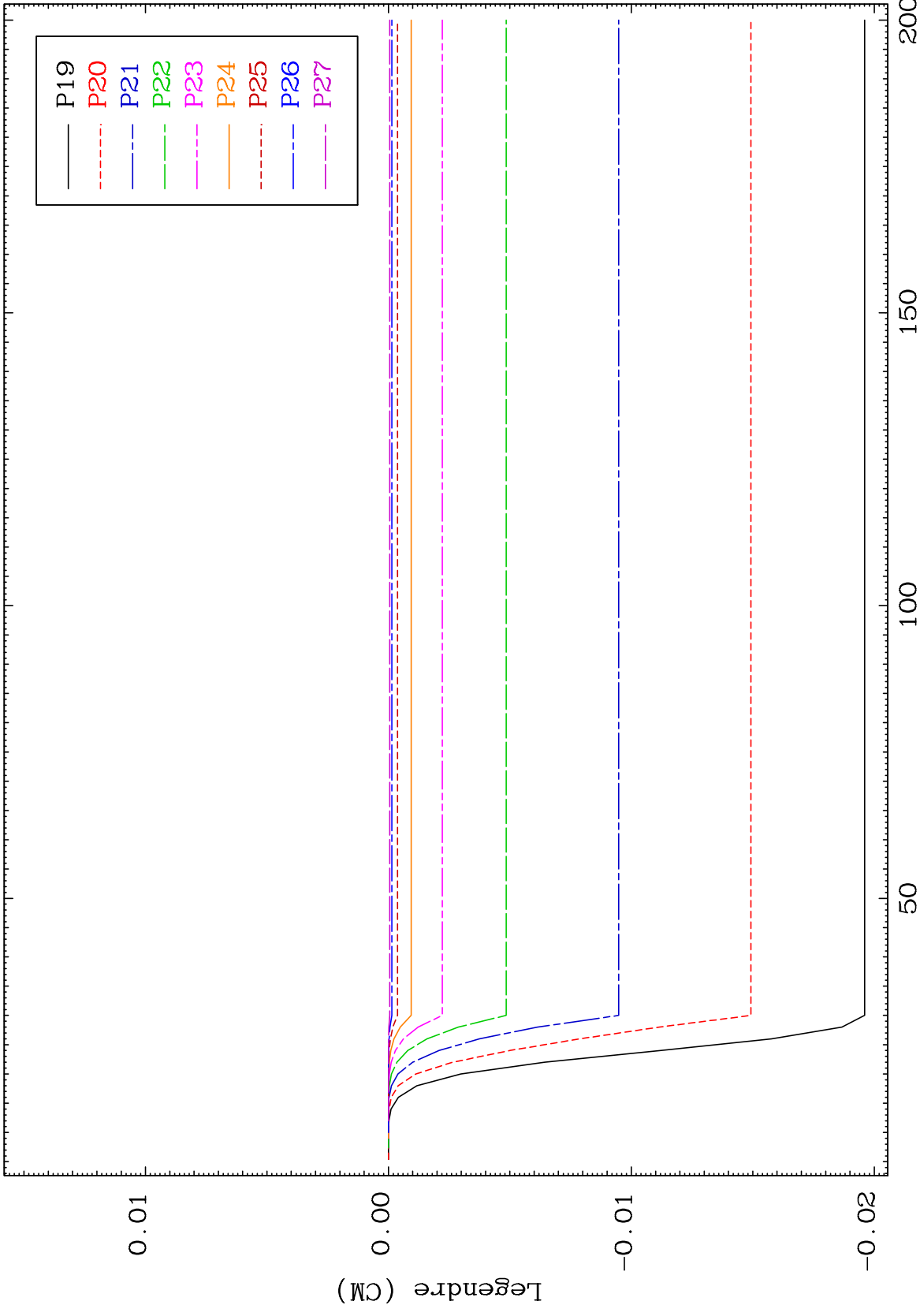
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



74

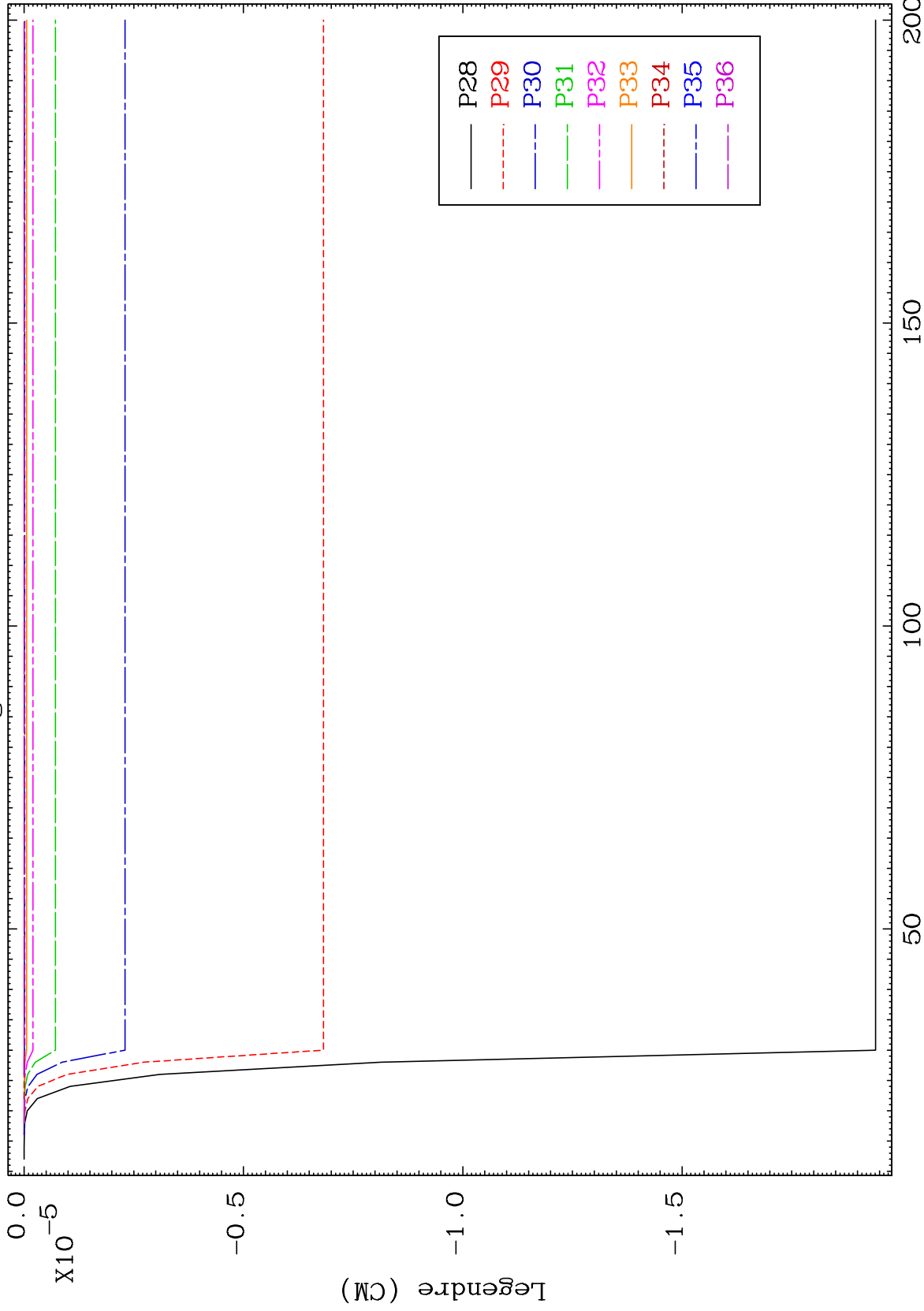
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

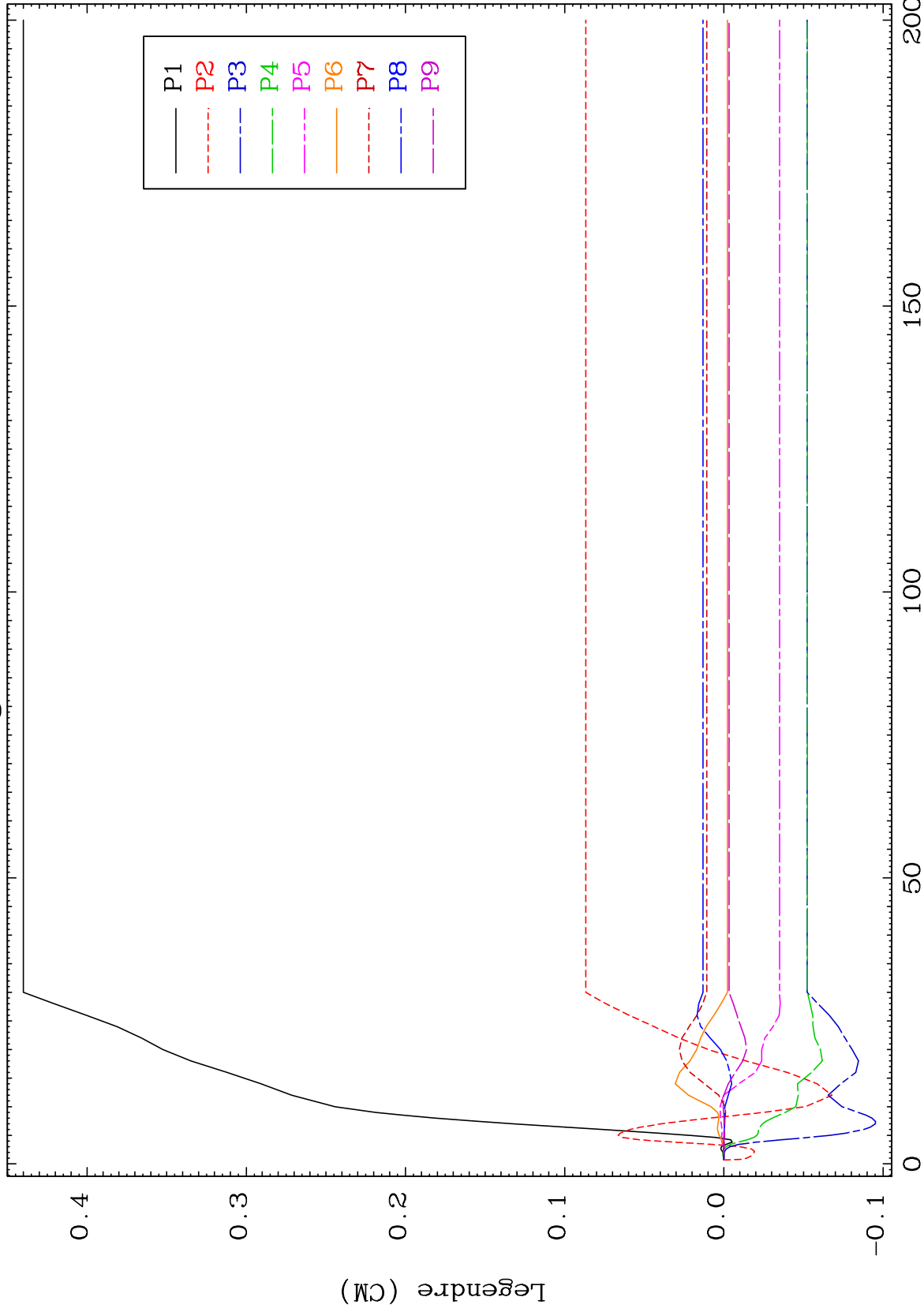
Incident Energy (MeV)

75

MAT 6176

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

61-Pm-156



76

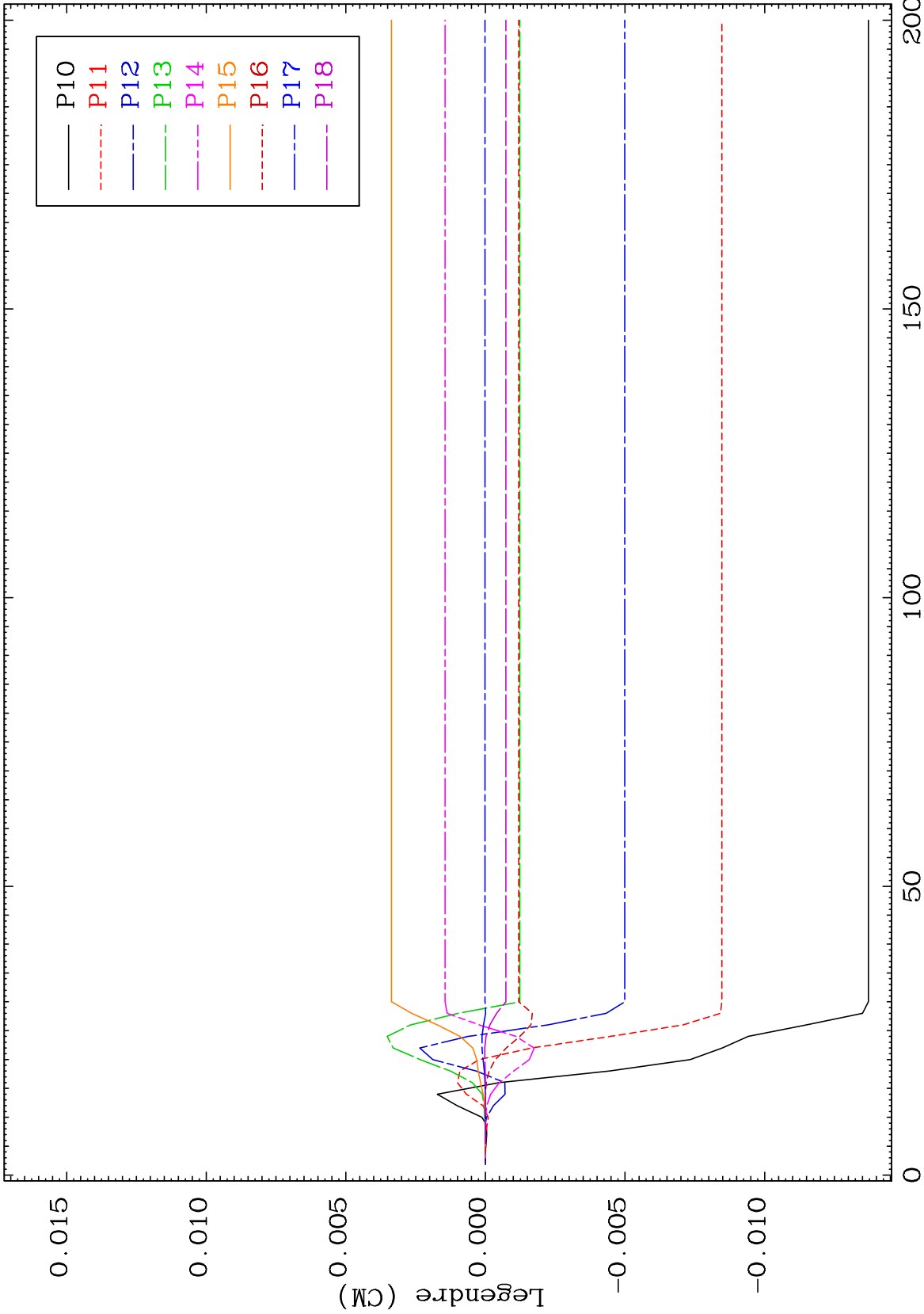
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



77

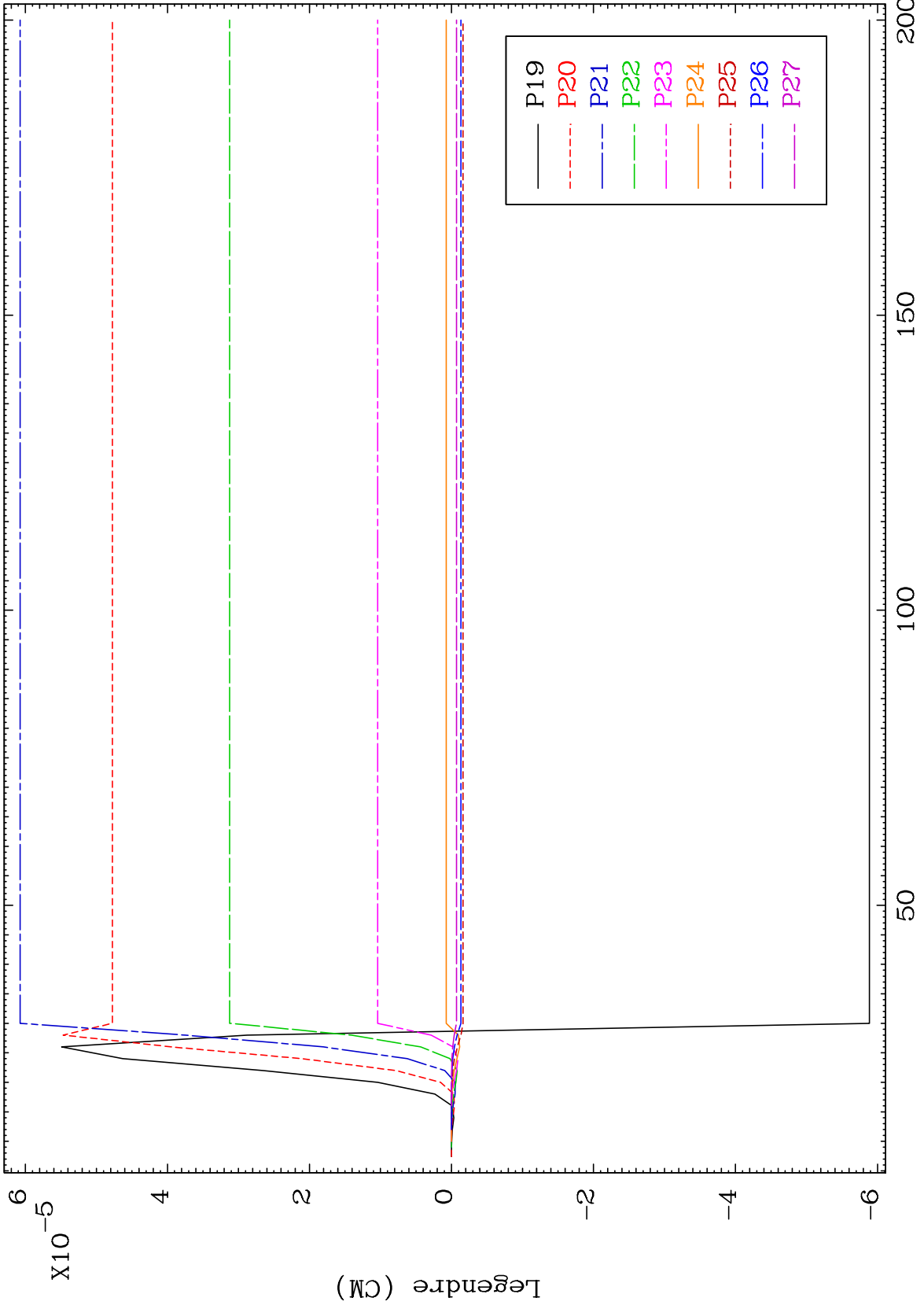
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



78

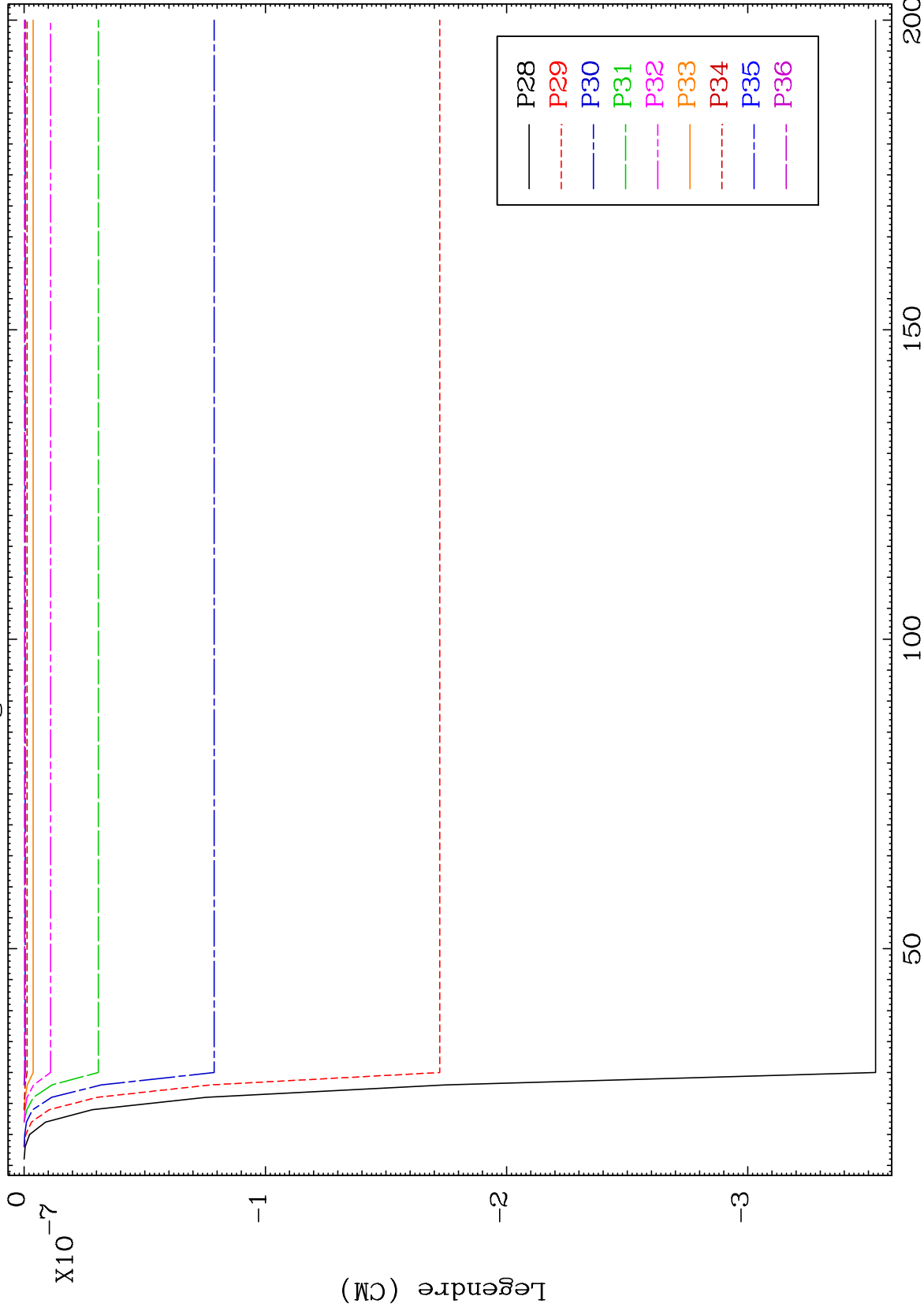
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

Incident Energy (MeV)

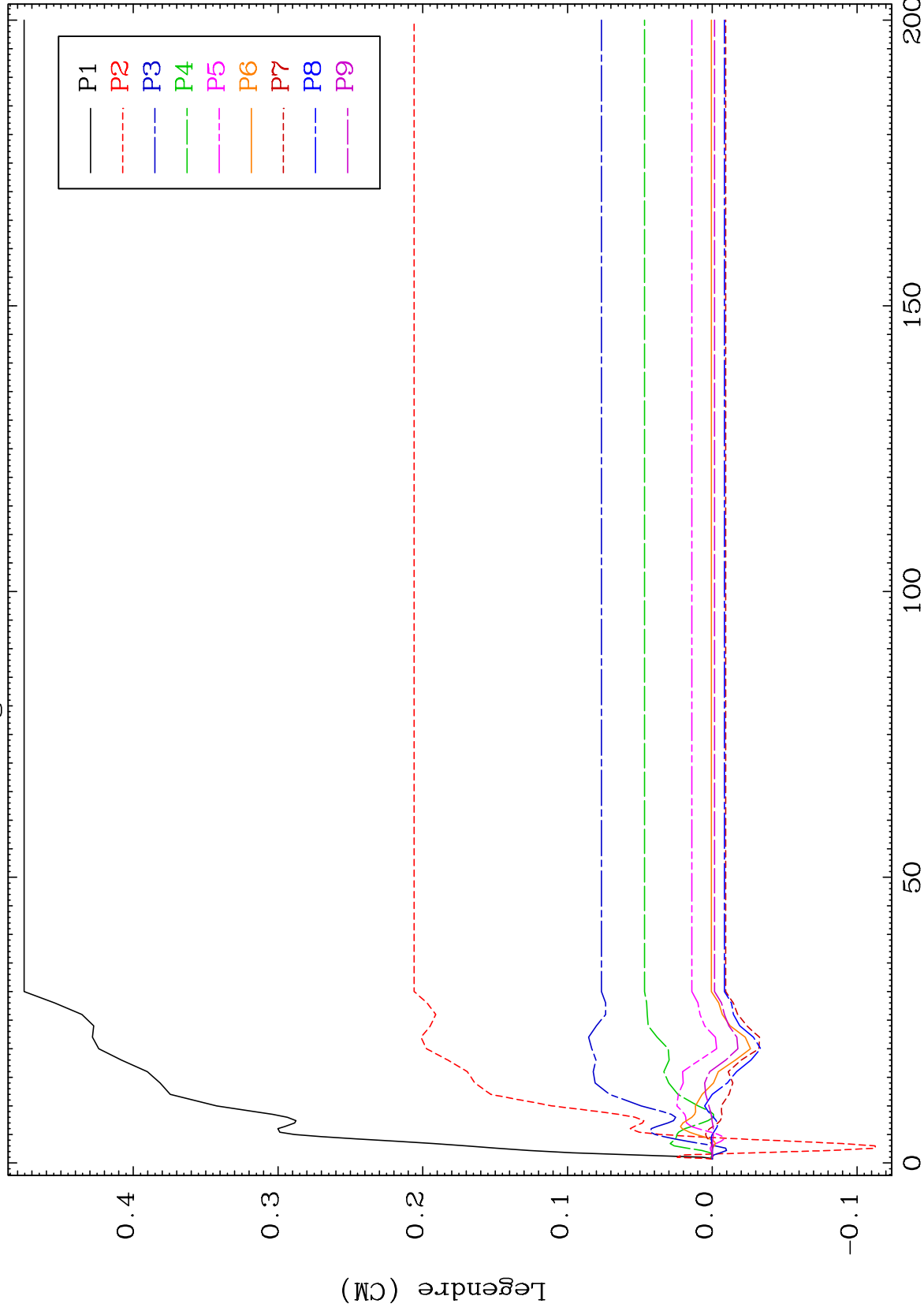
79



MAT 6176

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

61-Pm-156



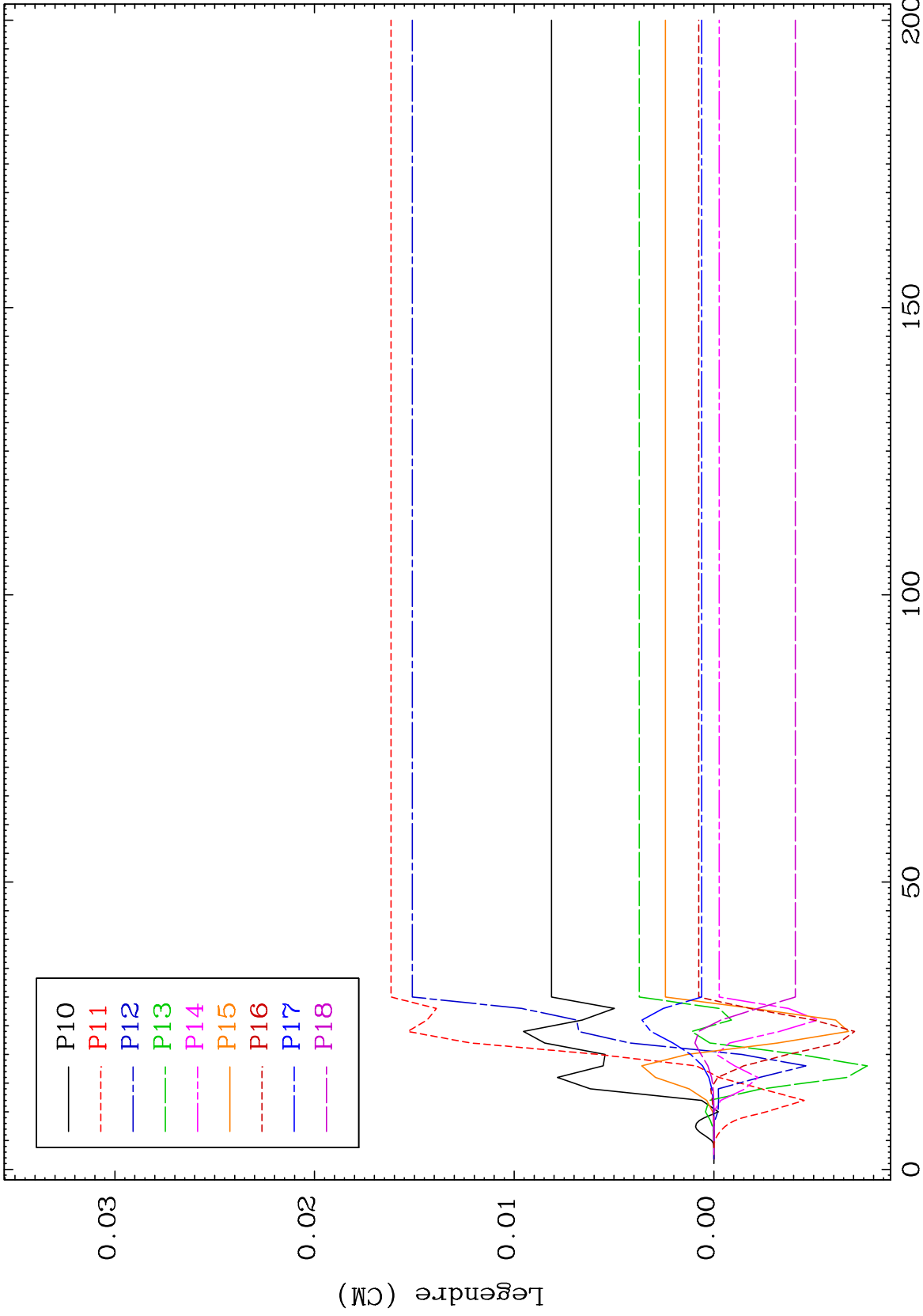
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



81

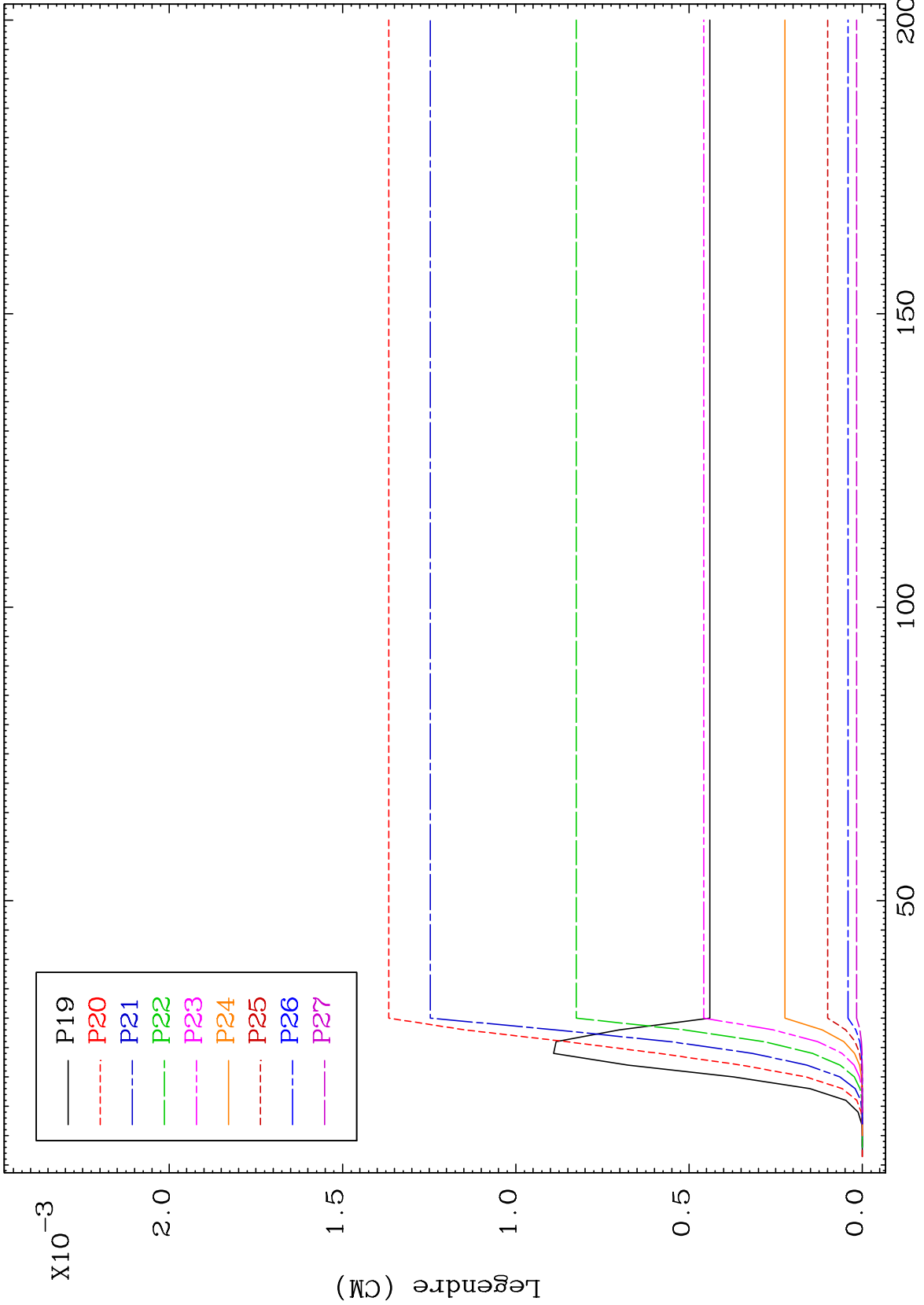
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



82

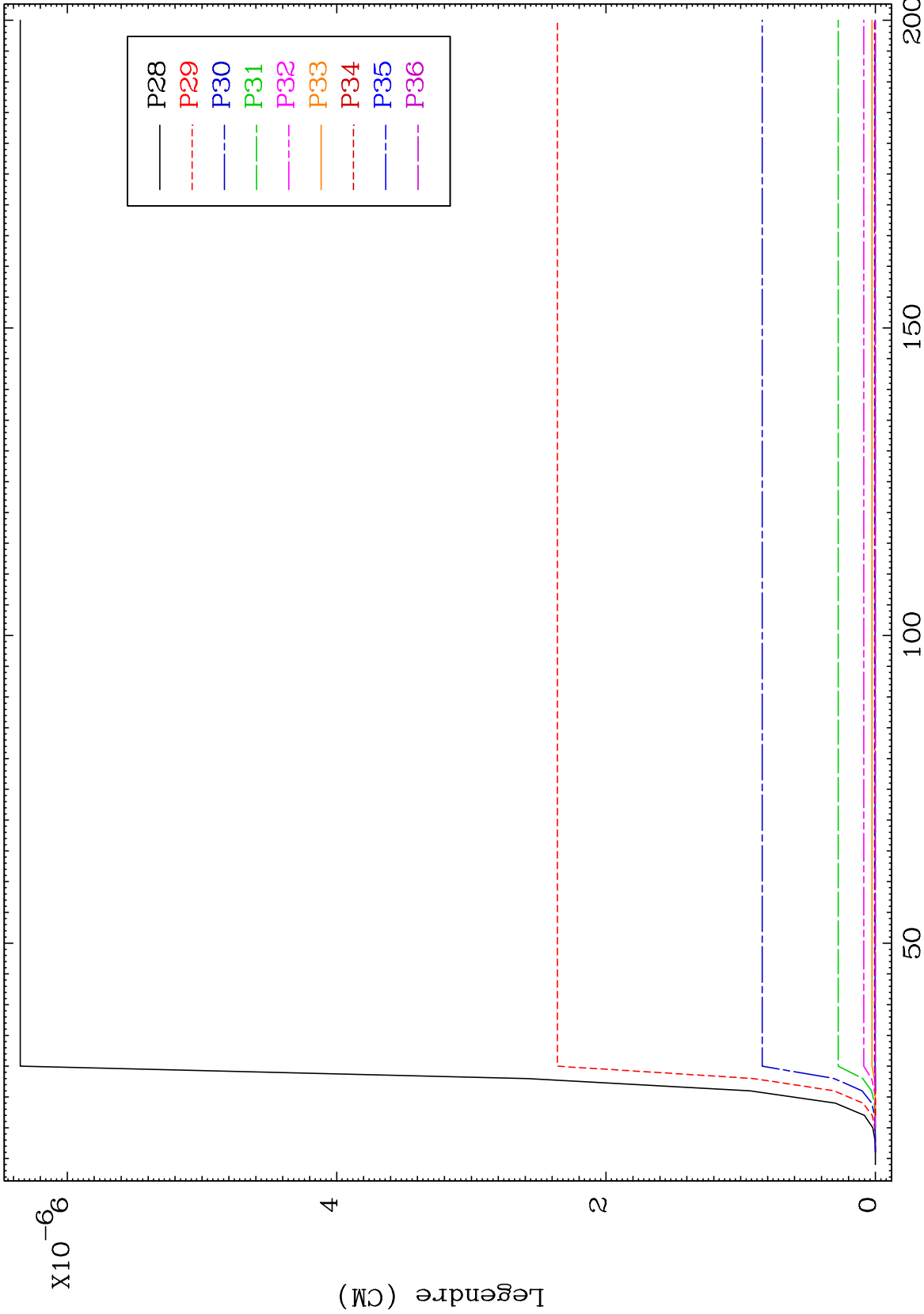
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156

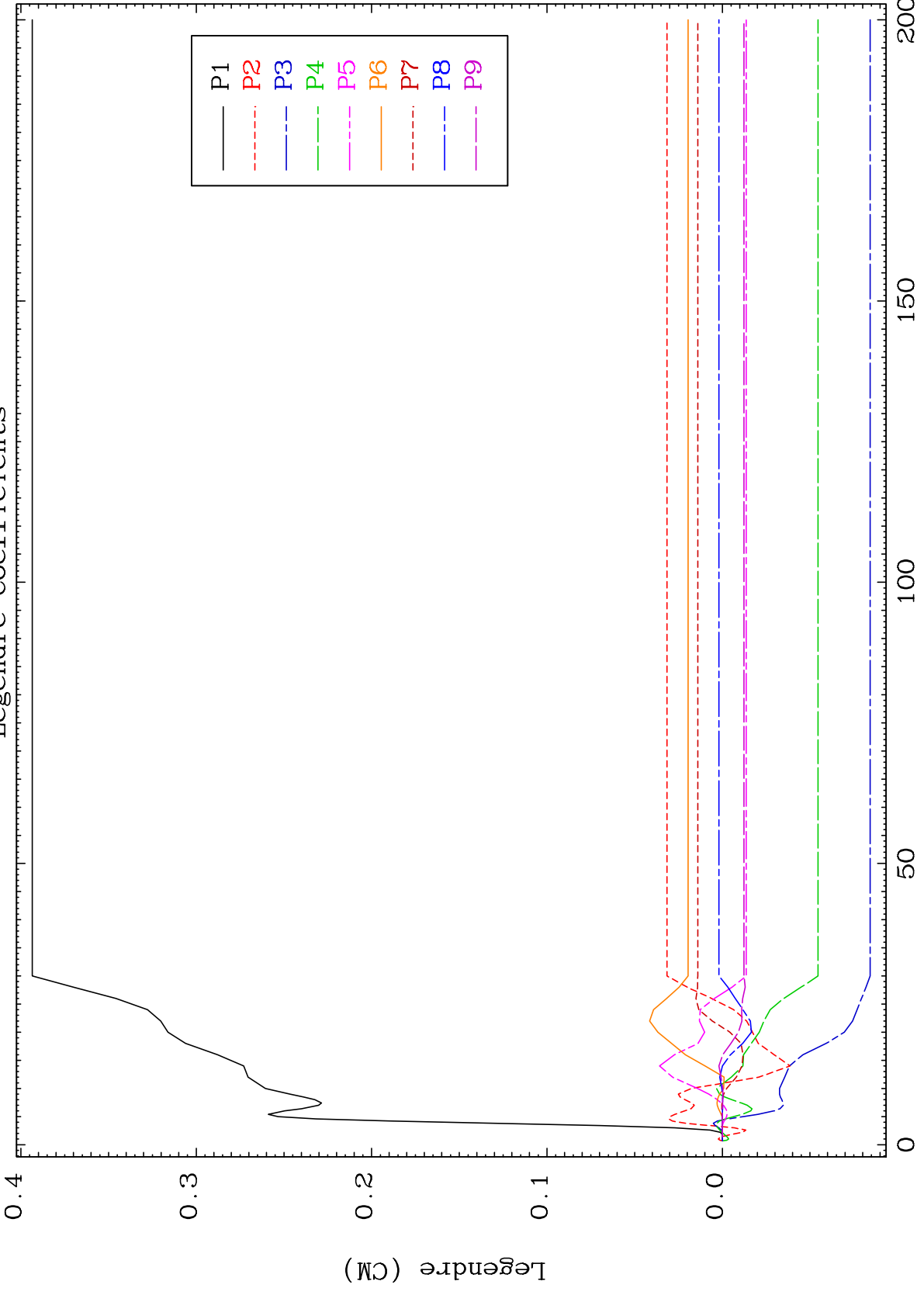


83

Incident Energy (MeV)

61-Pm-156

MAT 6176 MT= 70 (n,n') Level Legendre Coefficients 61-Pm-156

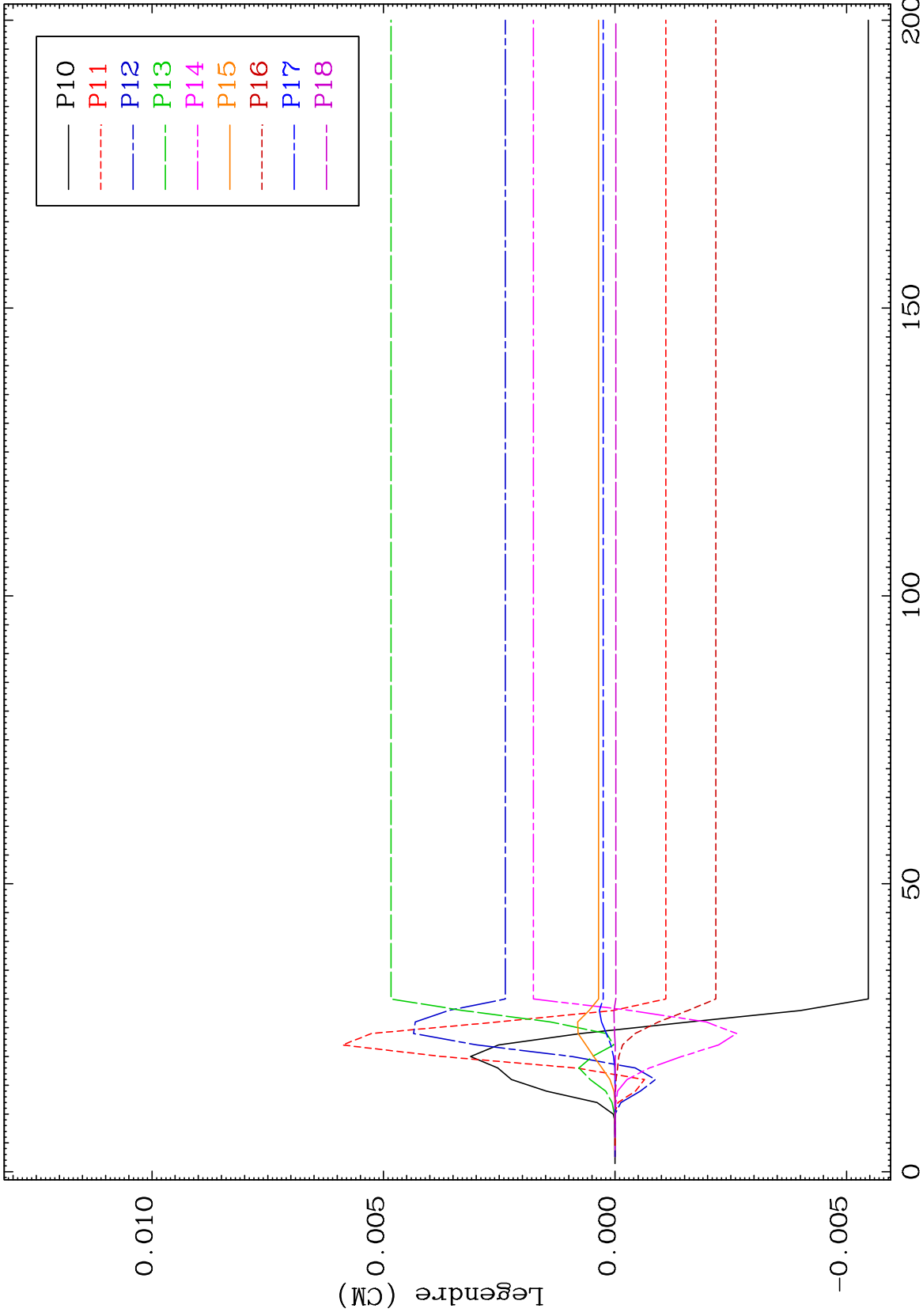


84 61-Pm-156

MAT 6176

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

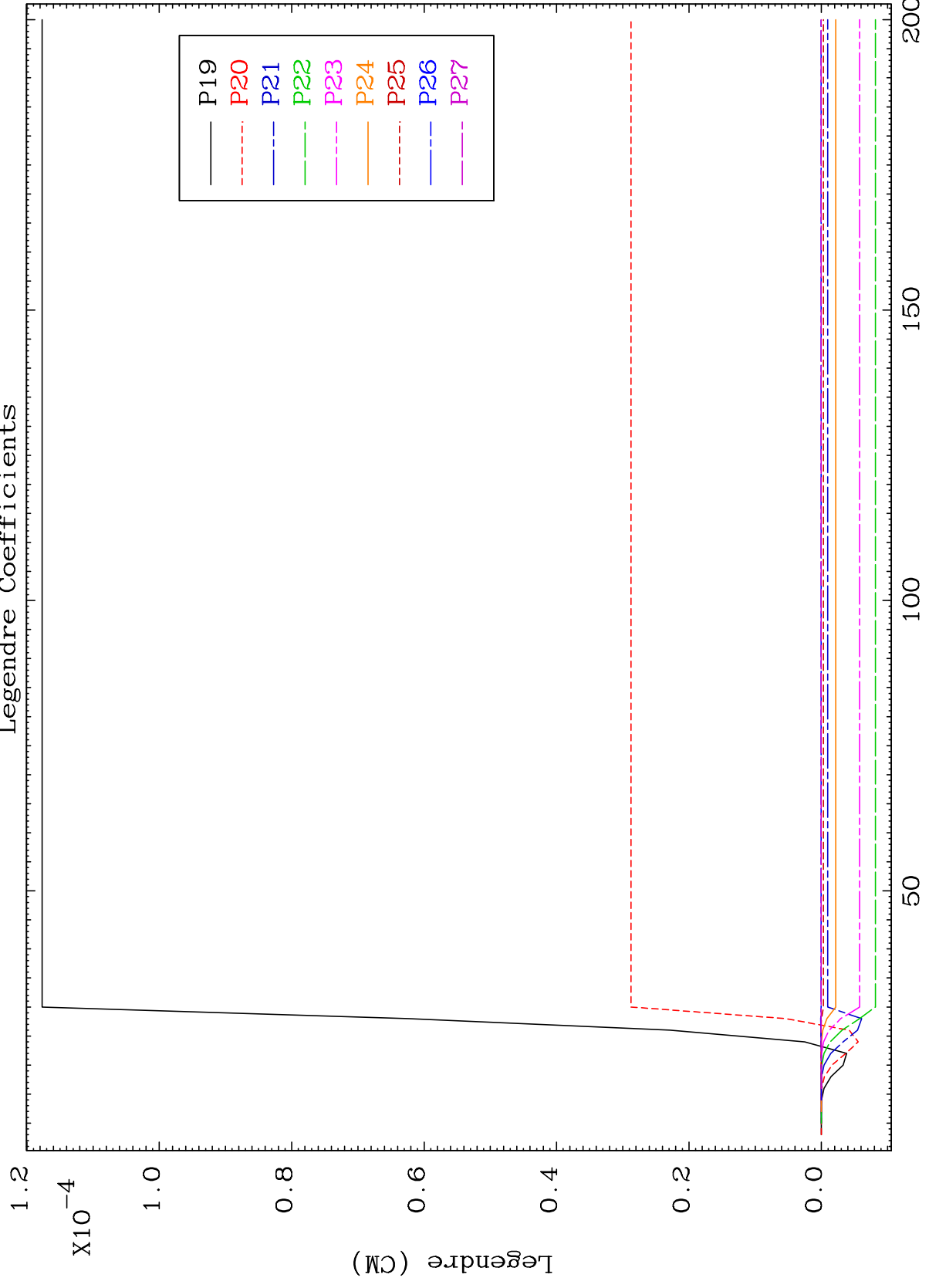
61-Pm-156



85

Incident Energy (MeV)

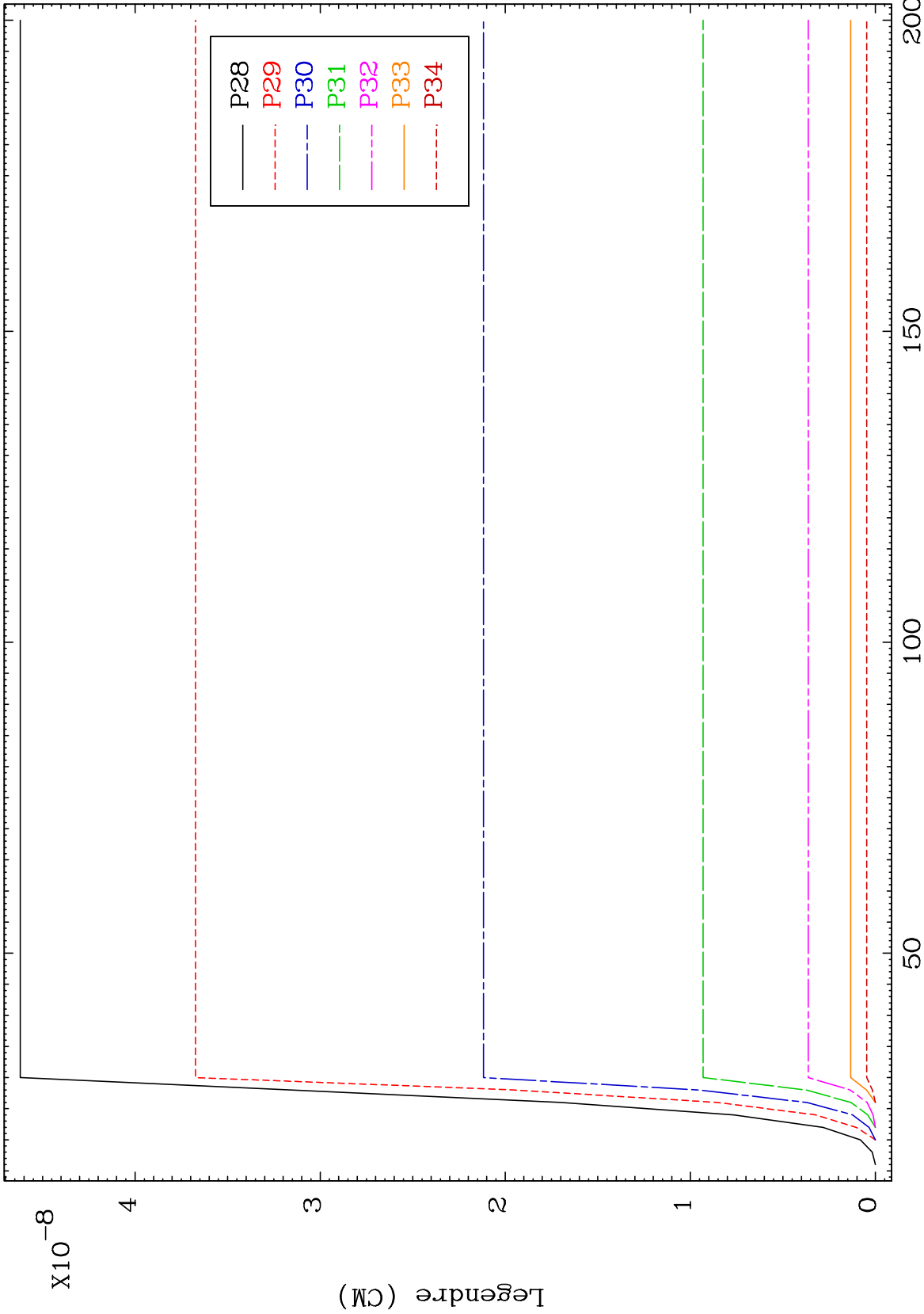
61-Pm-156



MAT 6176

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

61-Pm-156



87

Incident Energy (MeV)

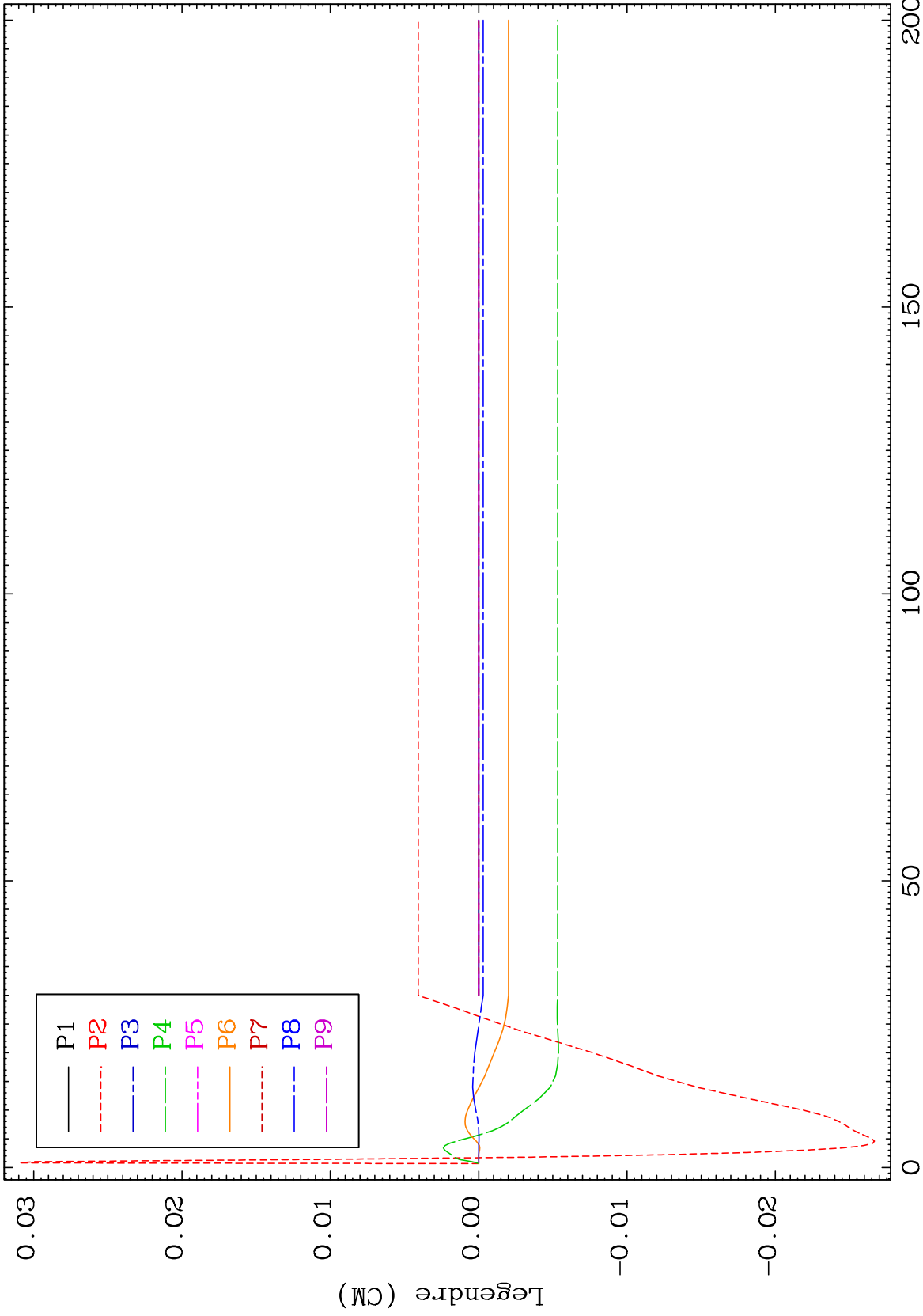
61-Pm-156



MAT 6176

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

61-Pm-156



88

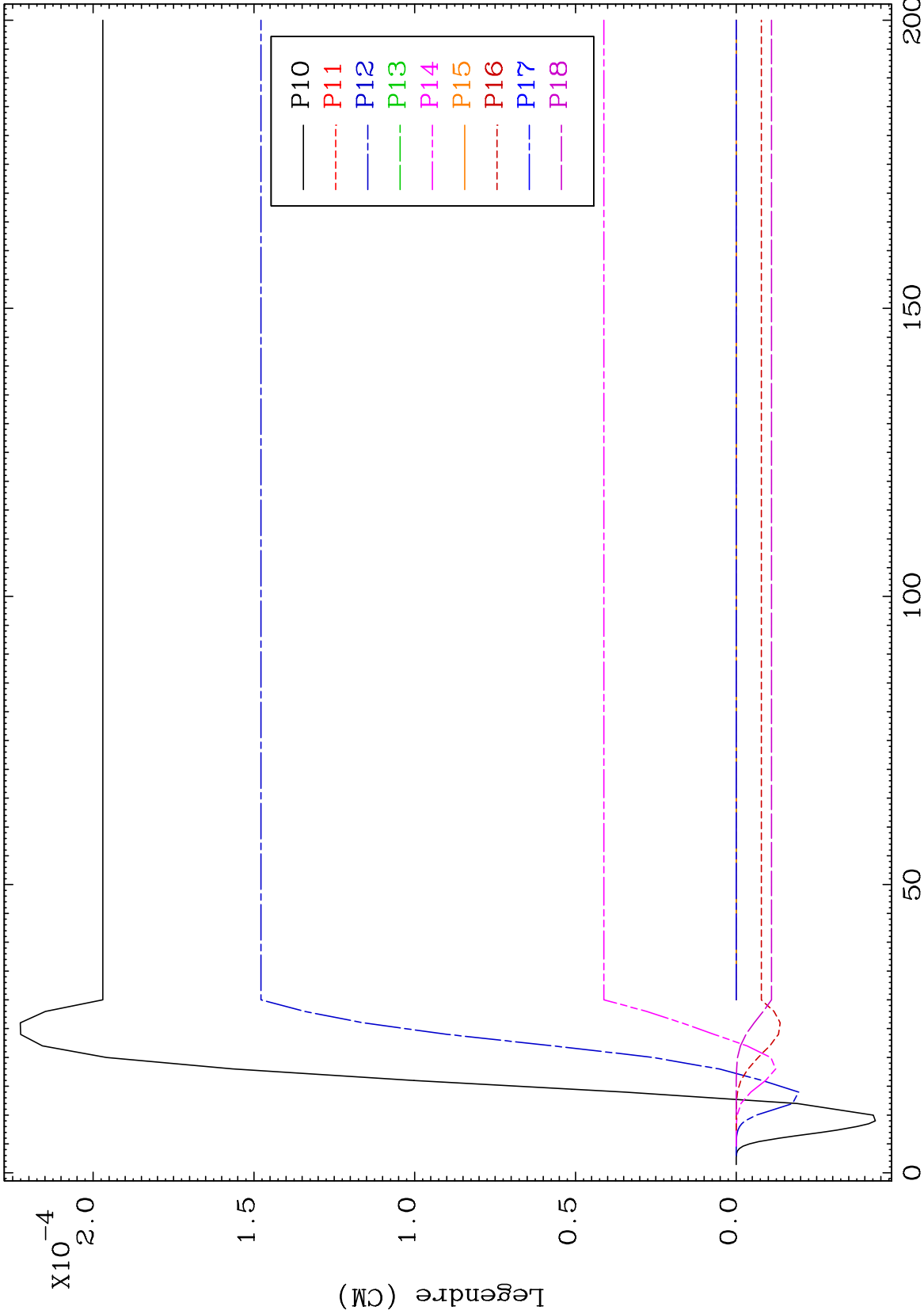
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156

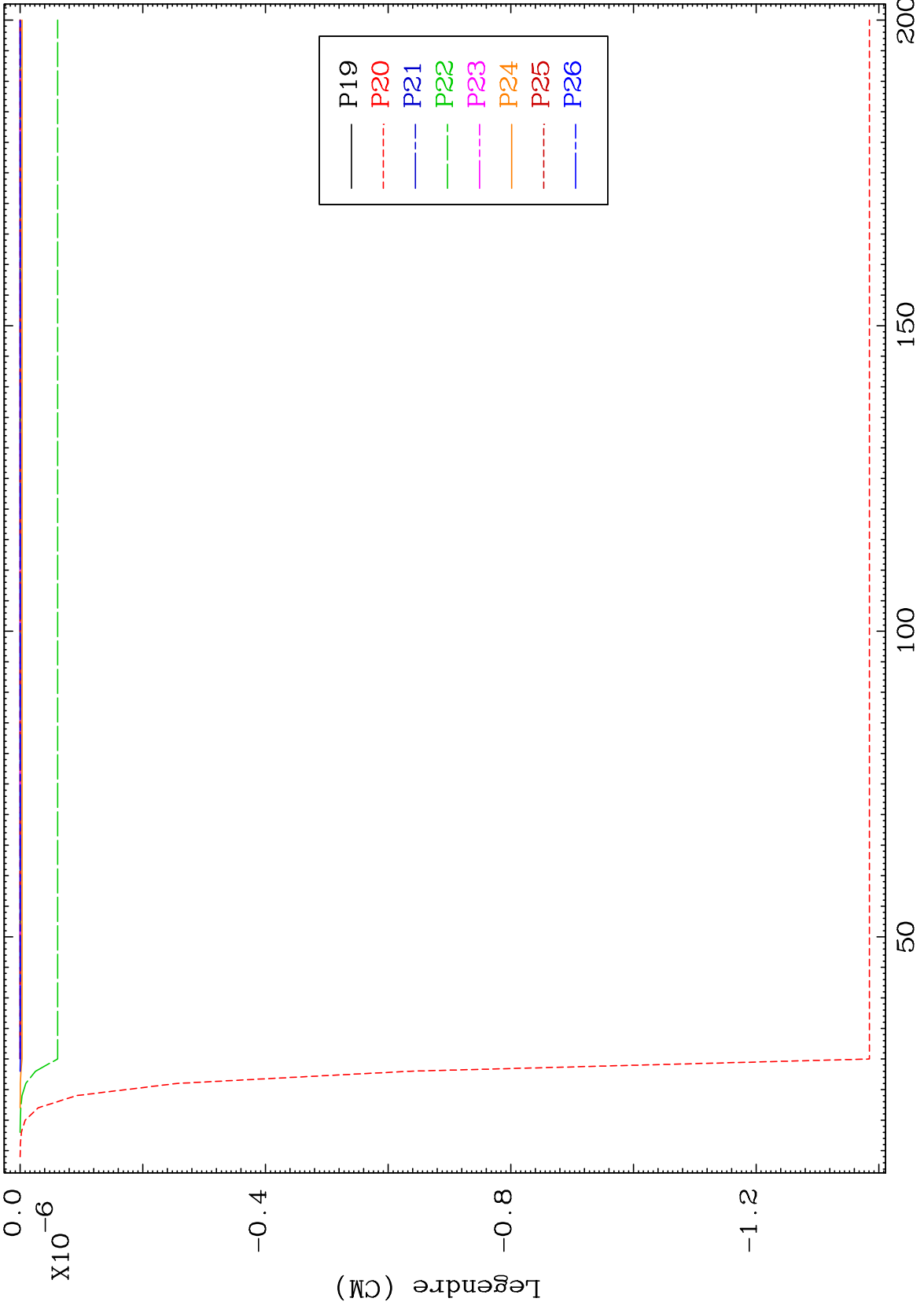


89

Incident Energy (MeV)

61-Pm-156

MAT 6176 MT= 71 (n,n') Level Legendre Coefficients 61-Pm-156

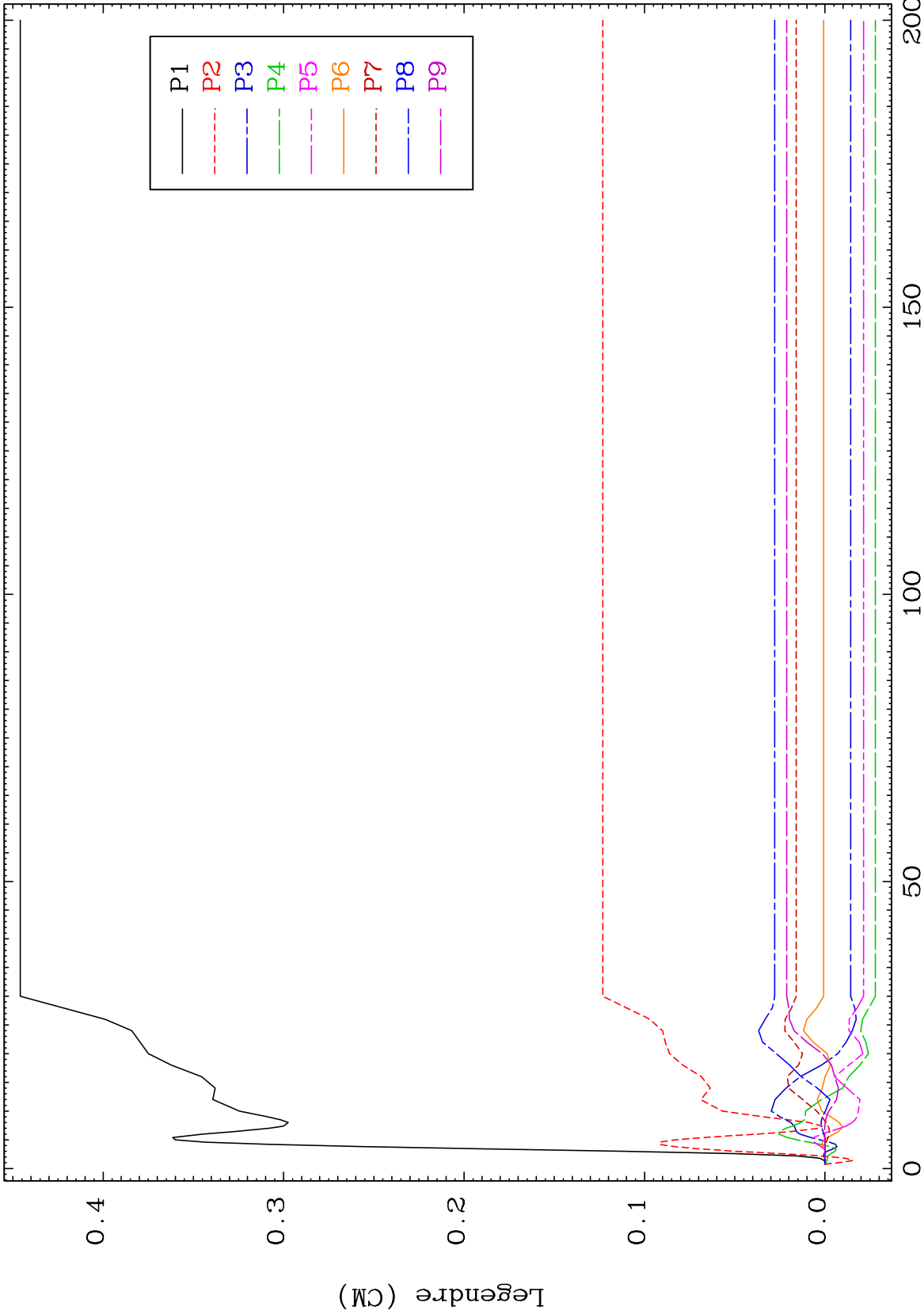


90 Incident Energy (MeV) 200 61-Pm-156

MAT 6176

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

61-Pm-156



91

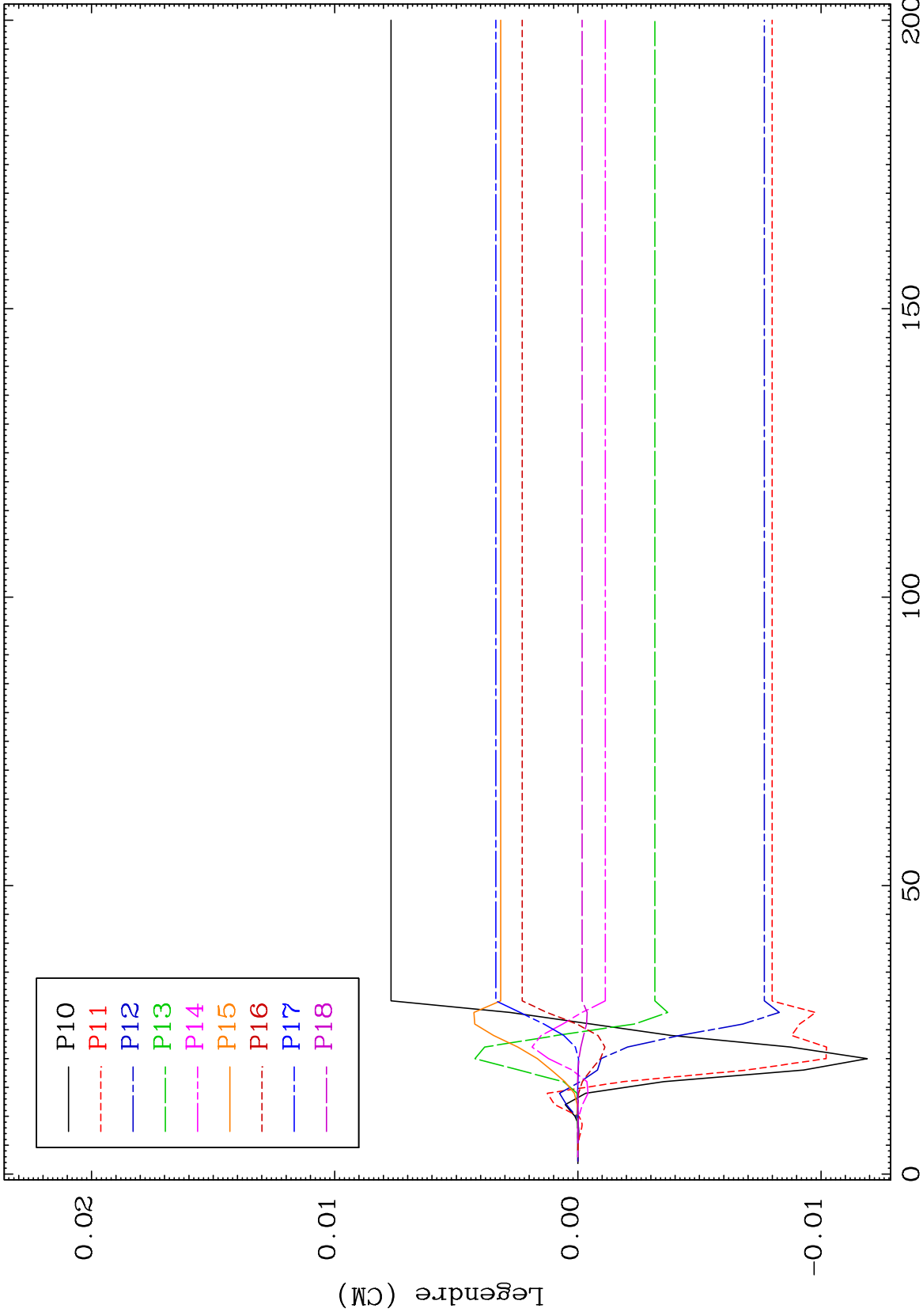
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



92

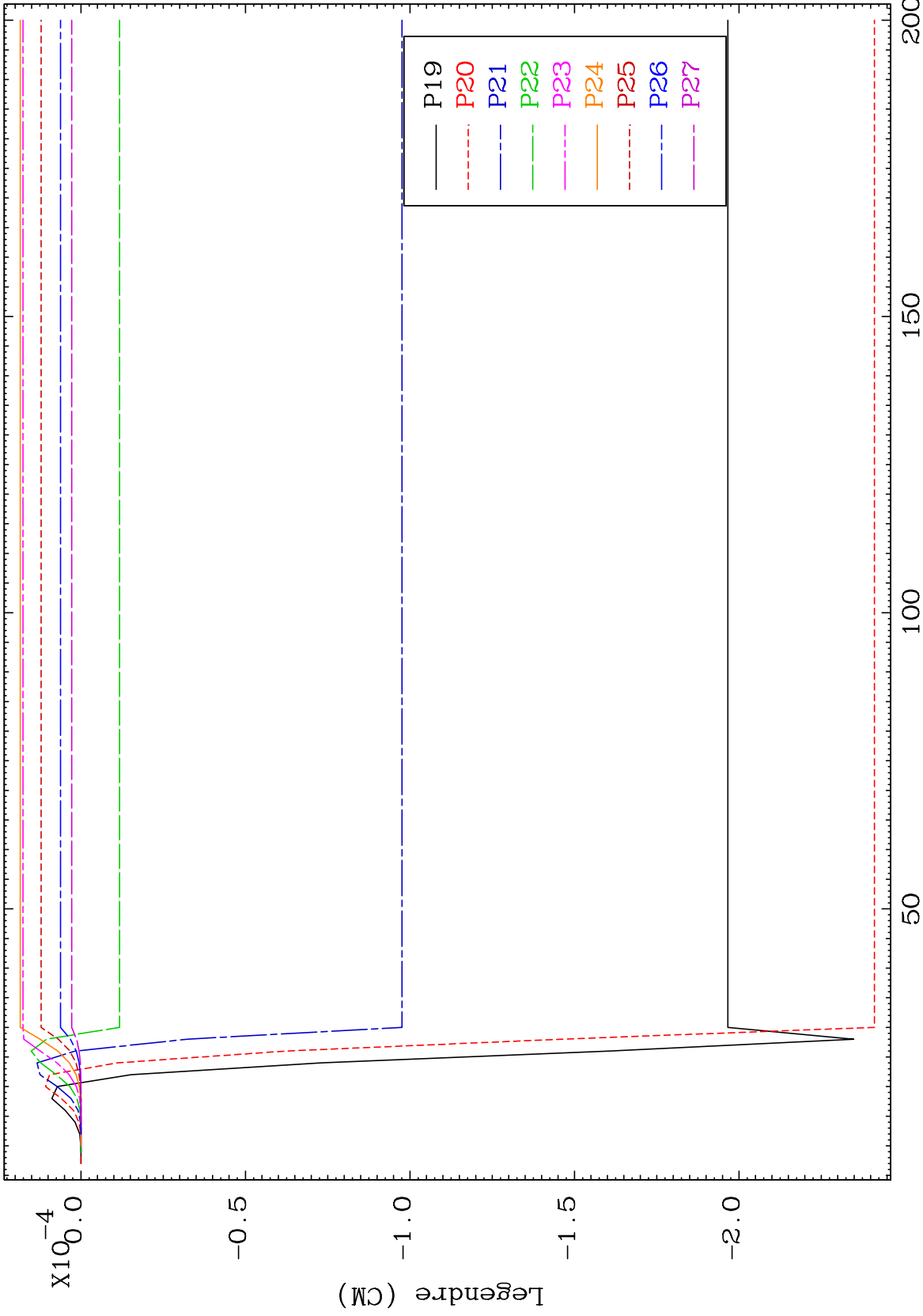
Incident Energy (MeV)

61-Pm-156

MAT 6176

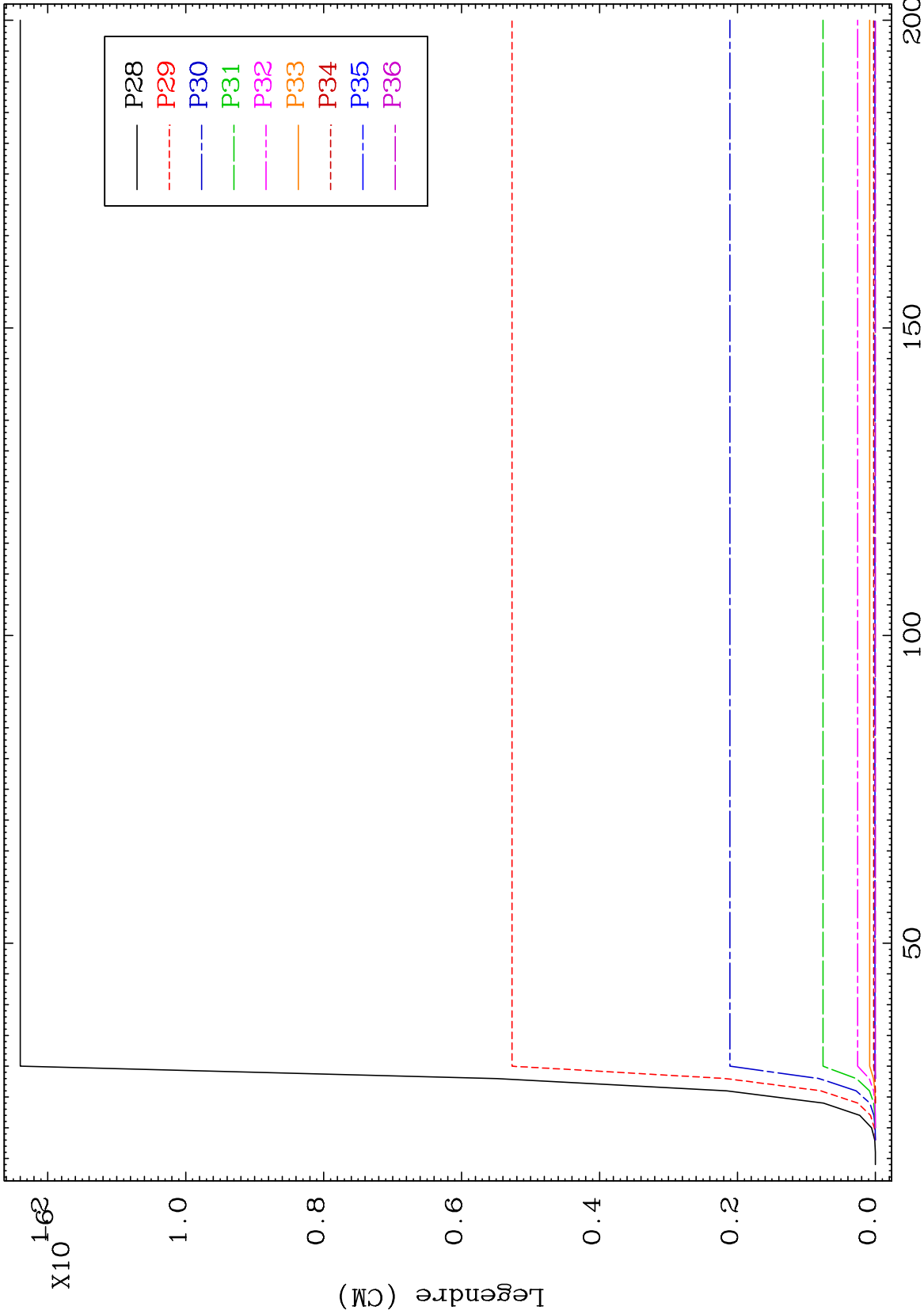
MT= 72 (n,n') Level  
Legendre Coefficients

61-Pm-156



93

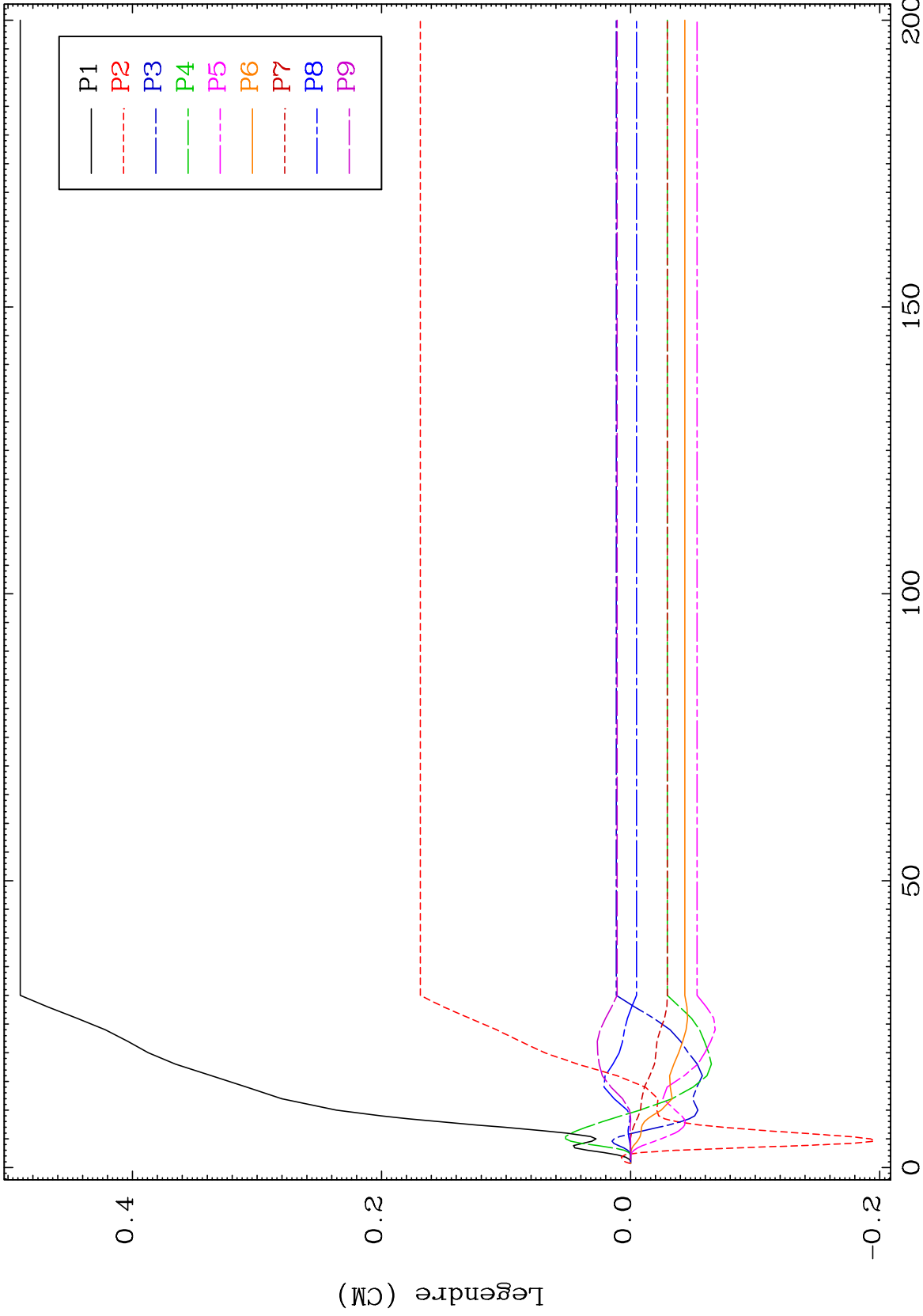
61-Pm-156



MAT 6176

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

61-Pm-156



95

Incident Energy (MeV)

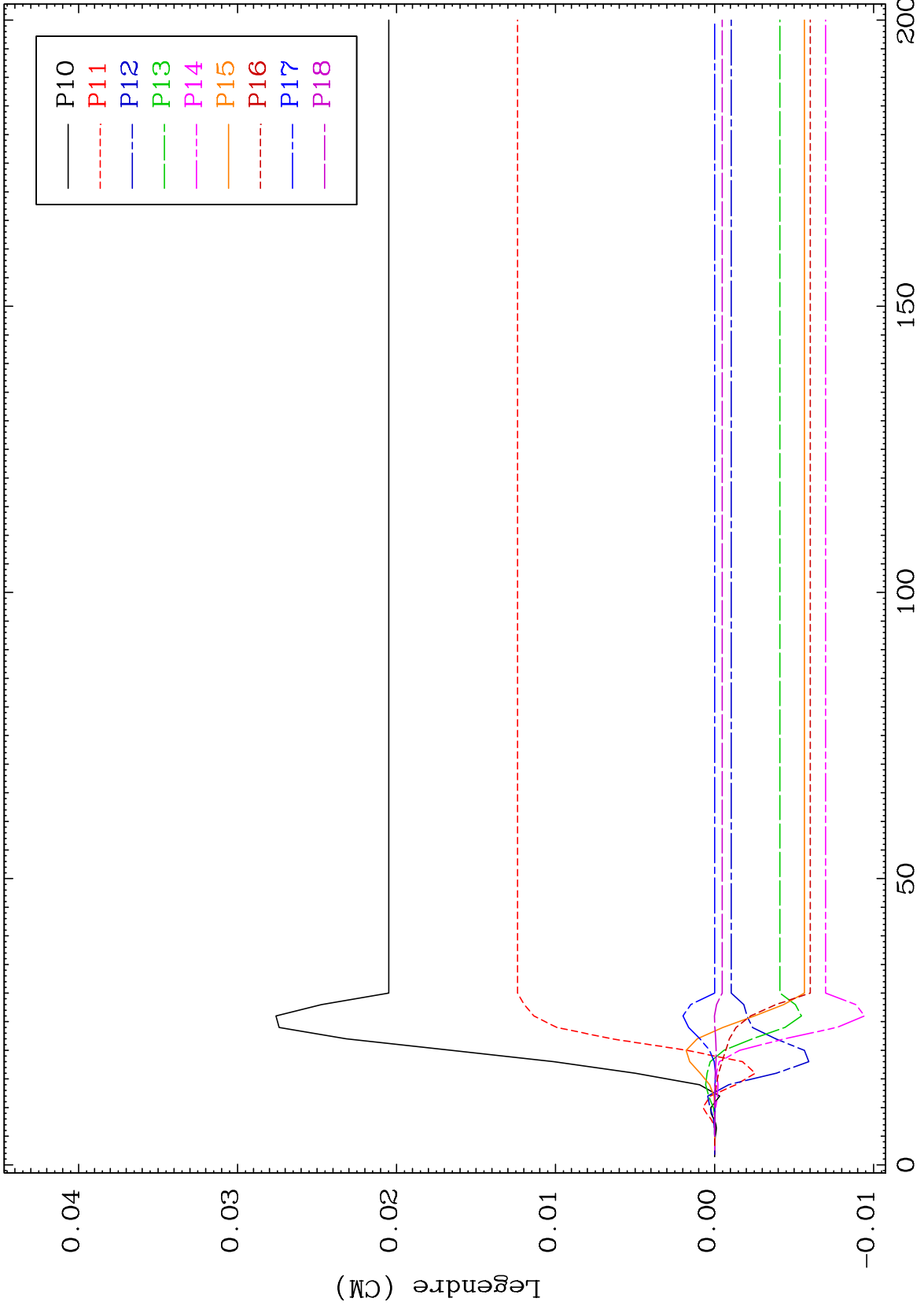
61-Pm-156



MAT 6176

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

61-Pm-156



96

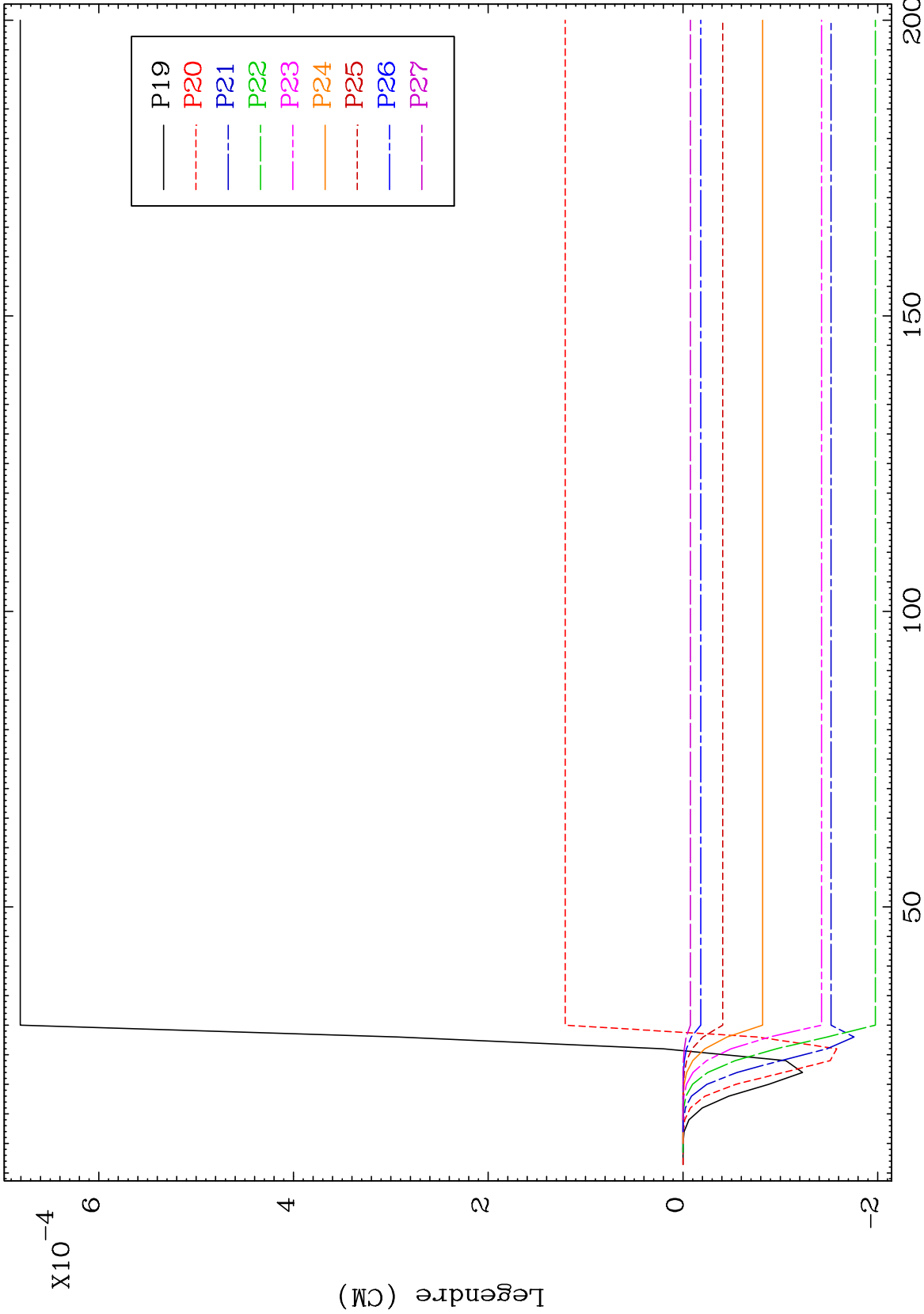
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



97

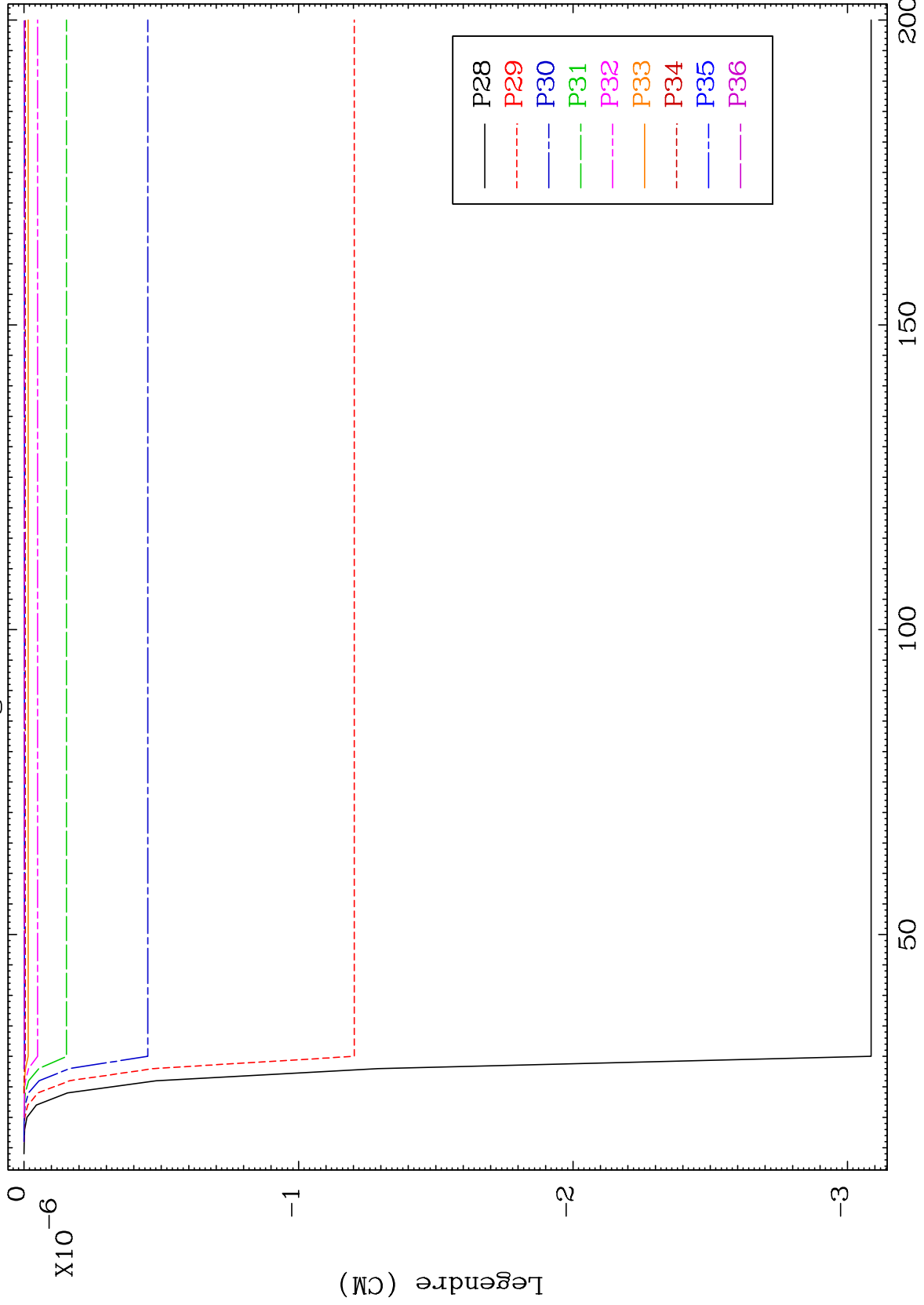
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



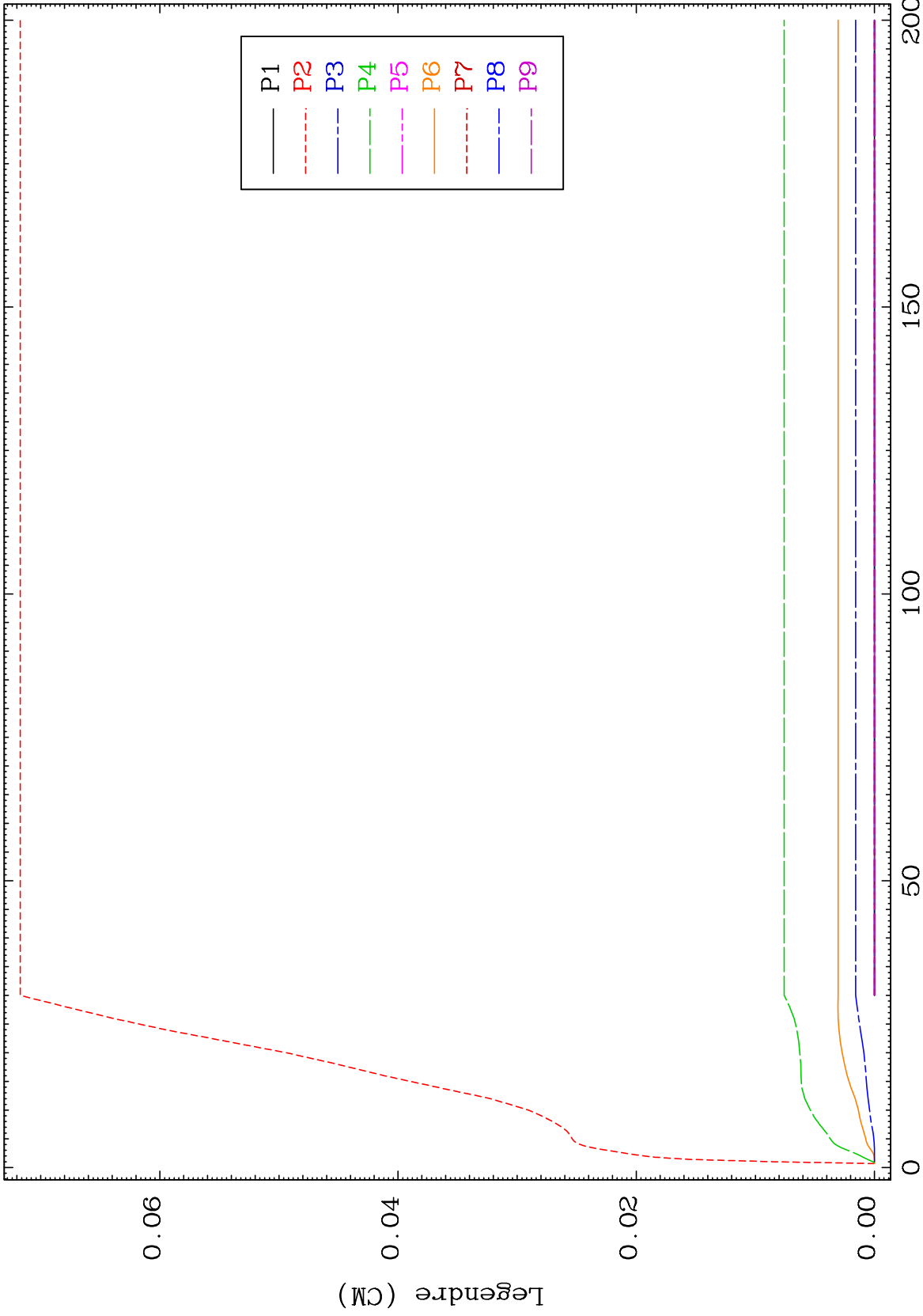
98

61-Pm-156

MAT 6176

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

61-Pm-156



99

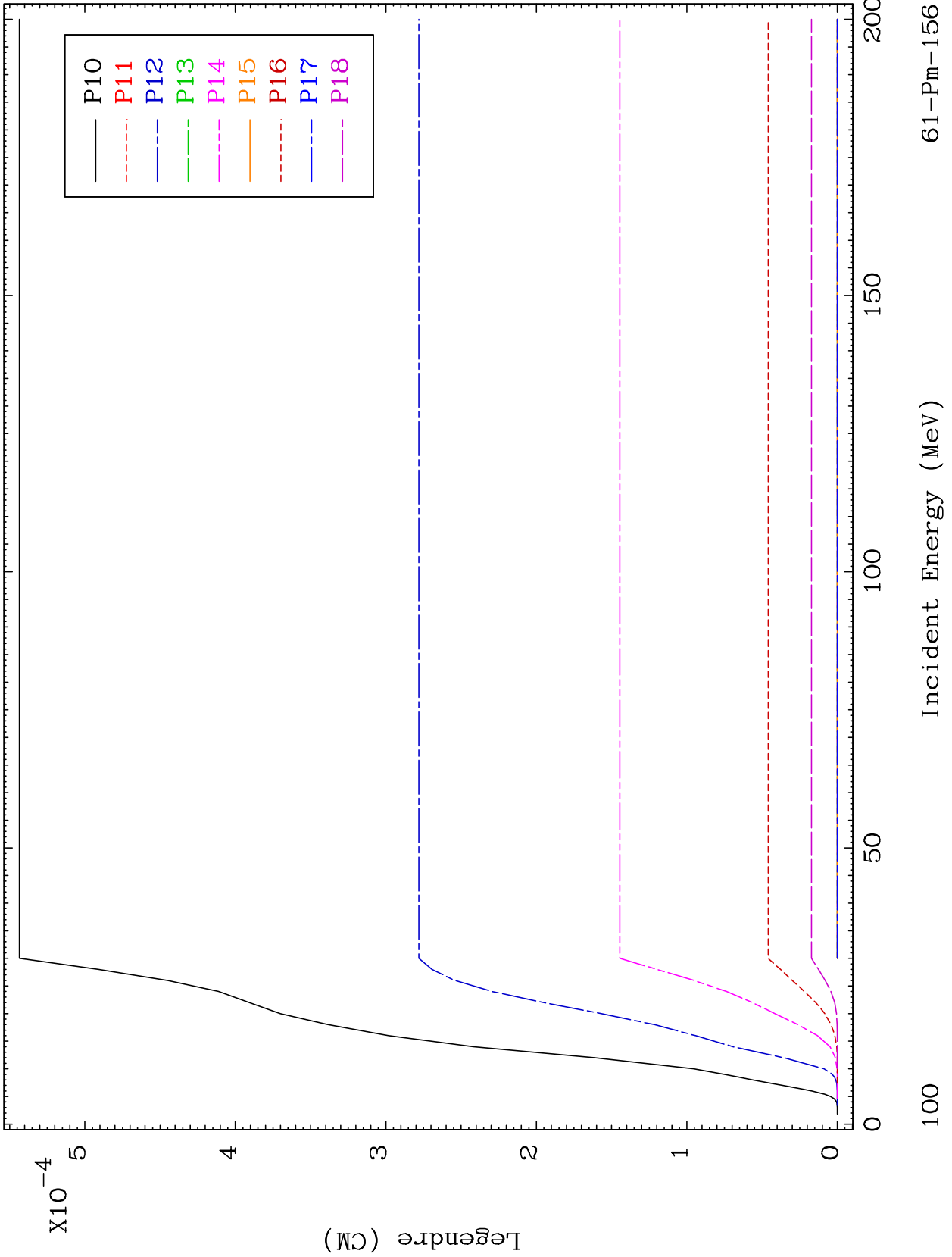
Incident Energy (MeV)

61-Pm-156

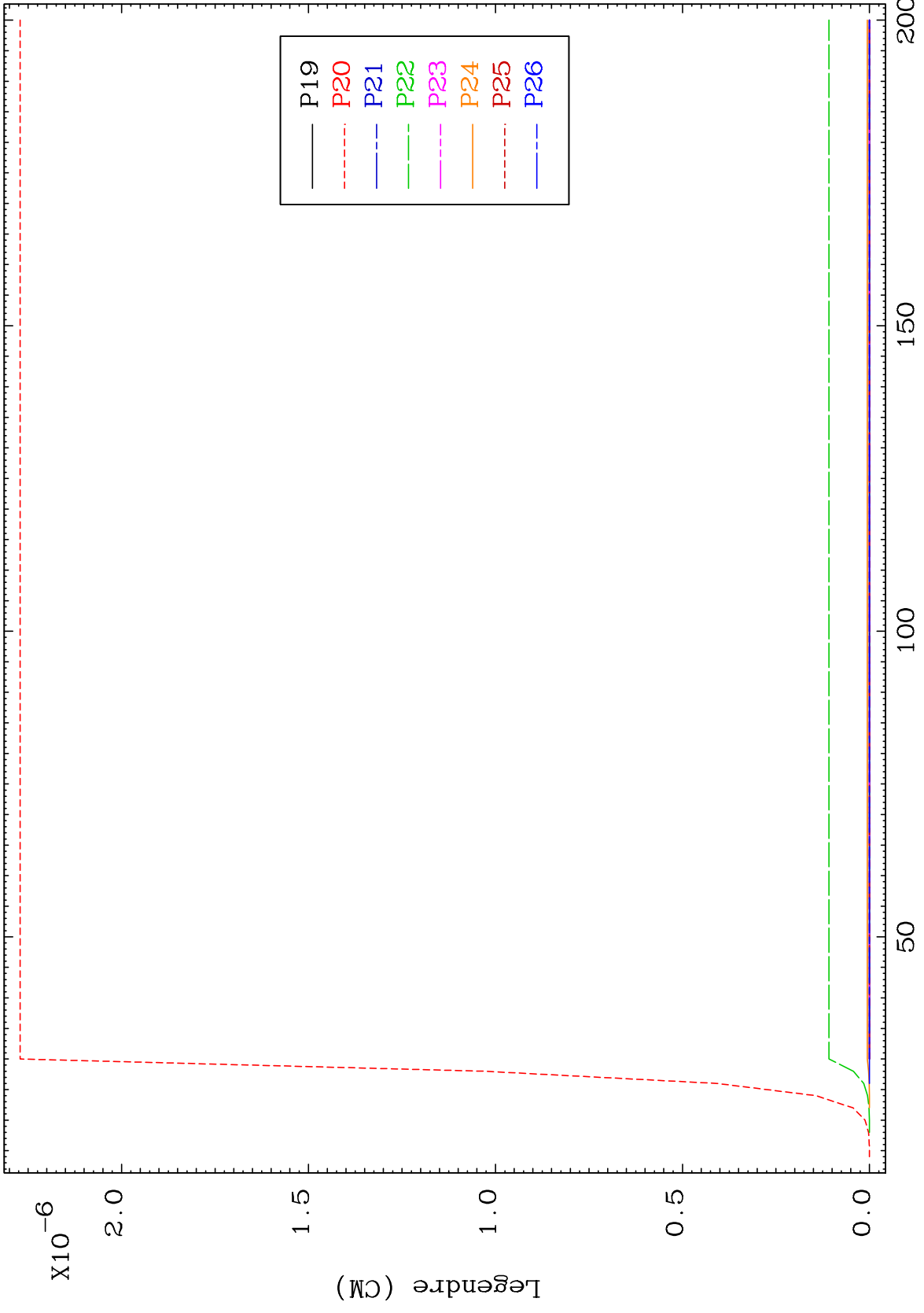
MAT 6176

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

61-Pm-156



MAT 6176 MT= 74 (n,n') Level Legendre Coefficients 61-Pm-156

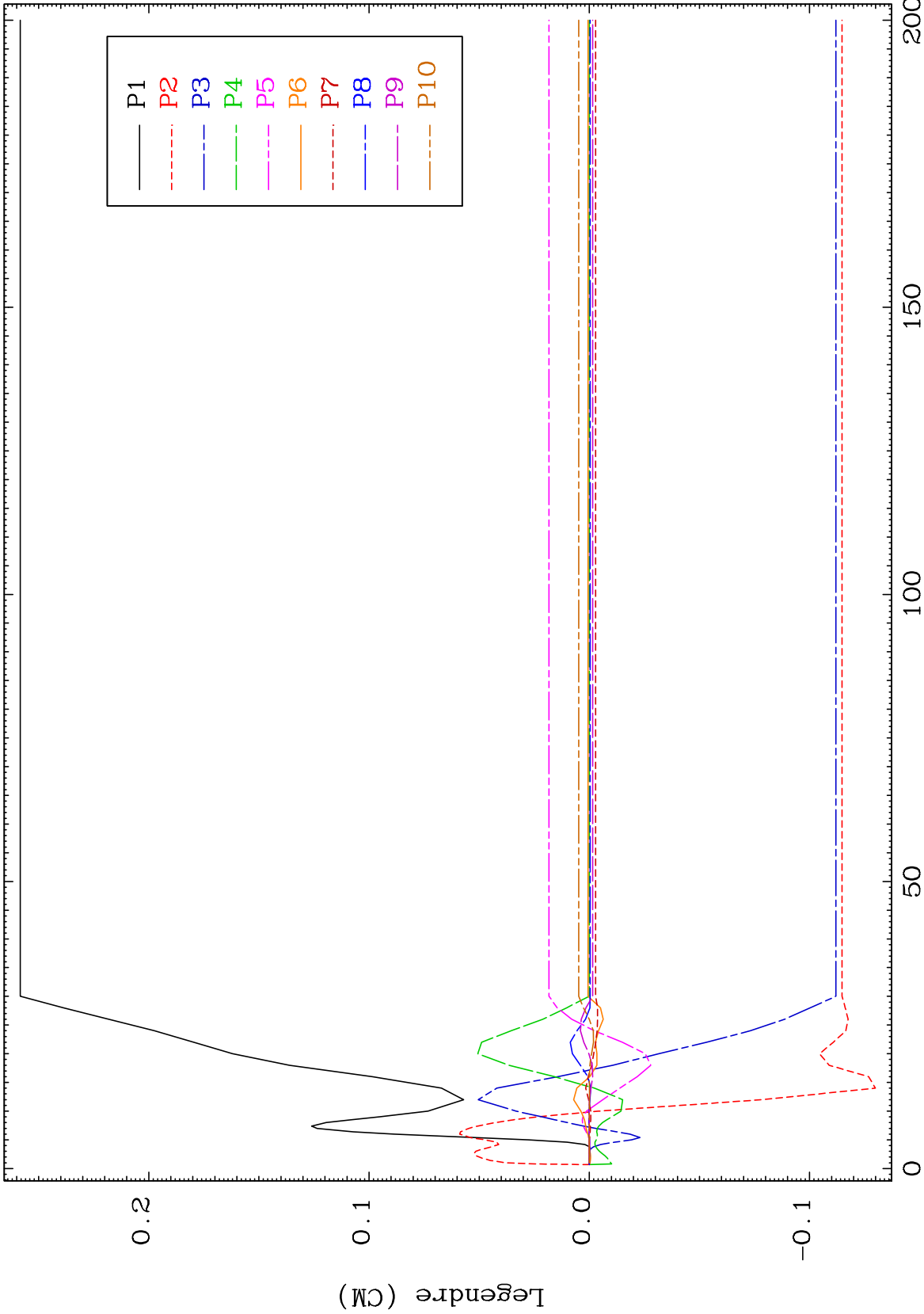


101 50 100 150 200 61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

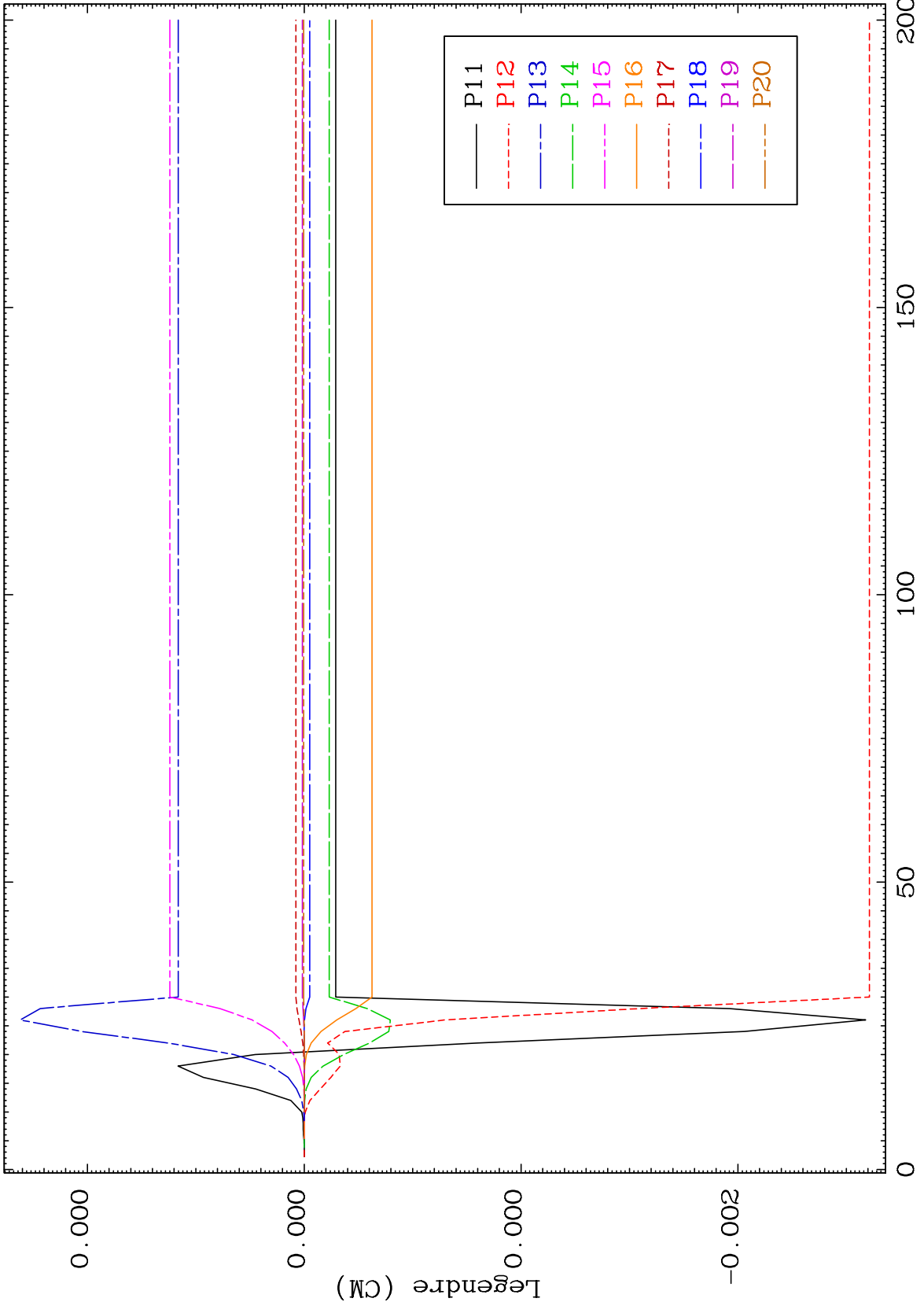
Incident Energy (MeV)

102

MAT 6176

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

61-Pm-156



103

Incident Energy (MeV)

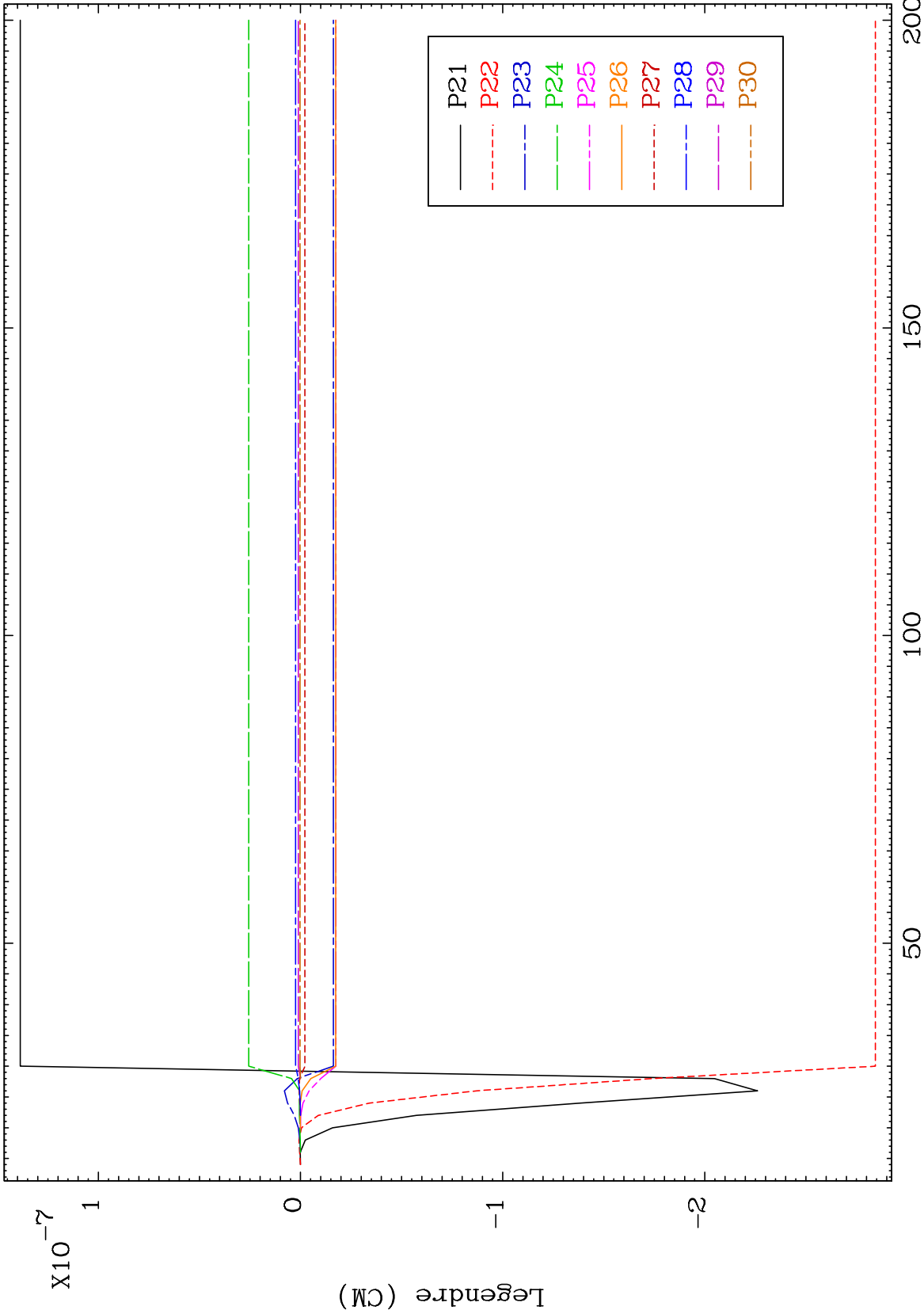
61-Pm-156



MAT 6176

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

61-Pm-156



104

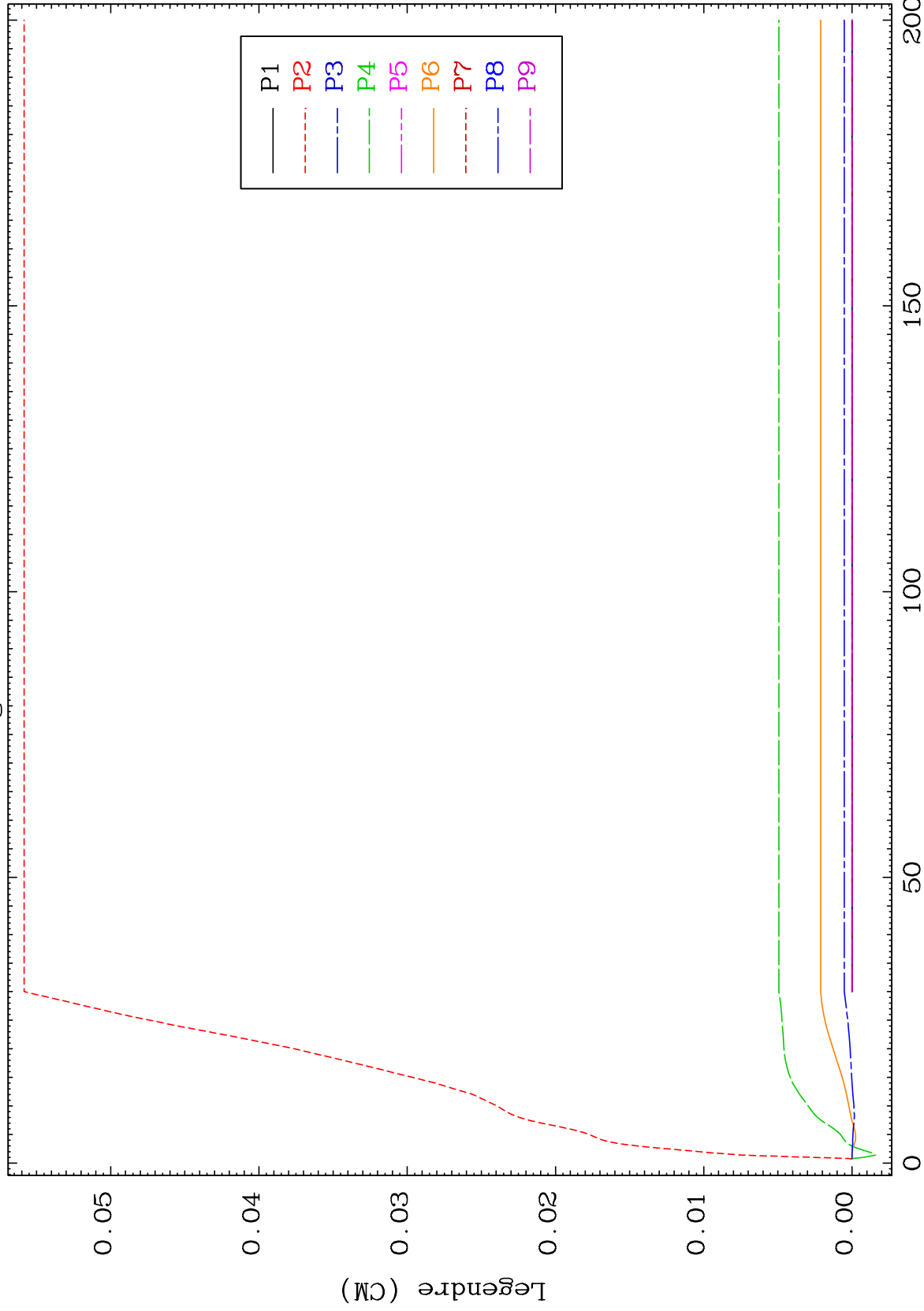
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



61-Pm-156

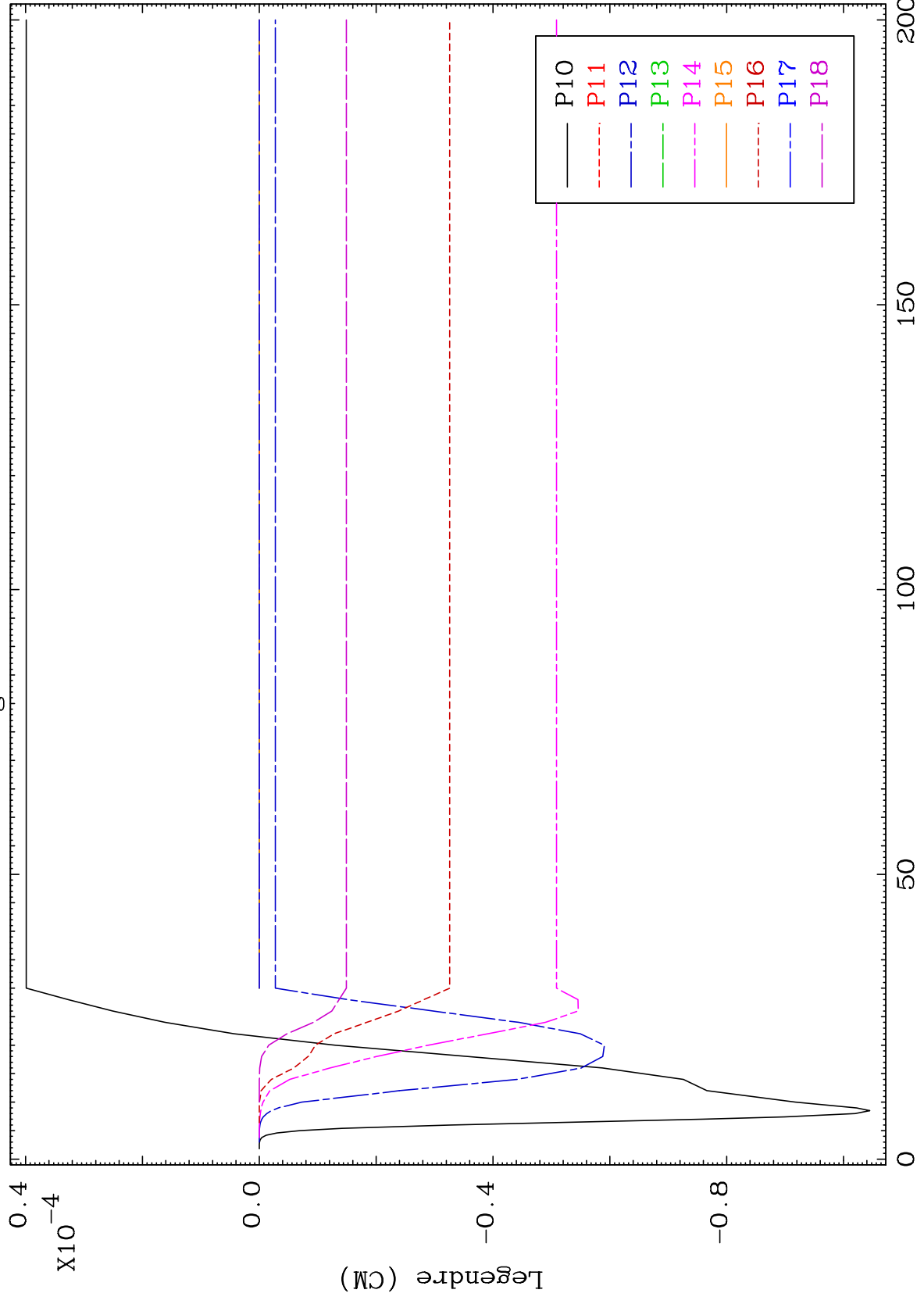
Incident Energy (MeV)

105

MAT 6176

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

61-Pm-156

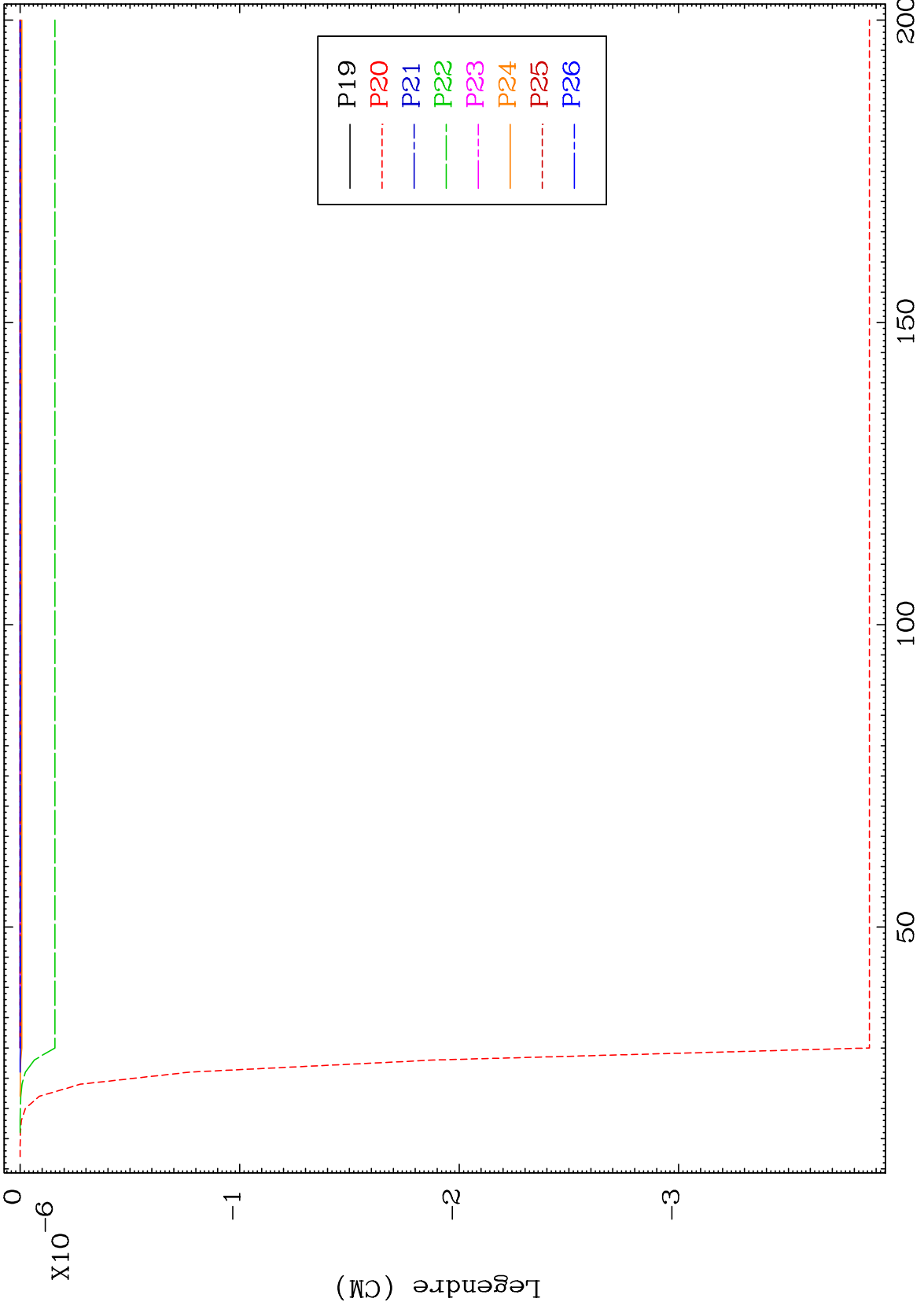


106

61-Pm-156

61-Pm-156

MAT 6176 MT= 76 (n,n') Level Legendre Coefficients 61-Pm-156

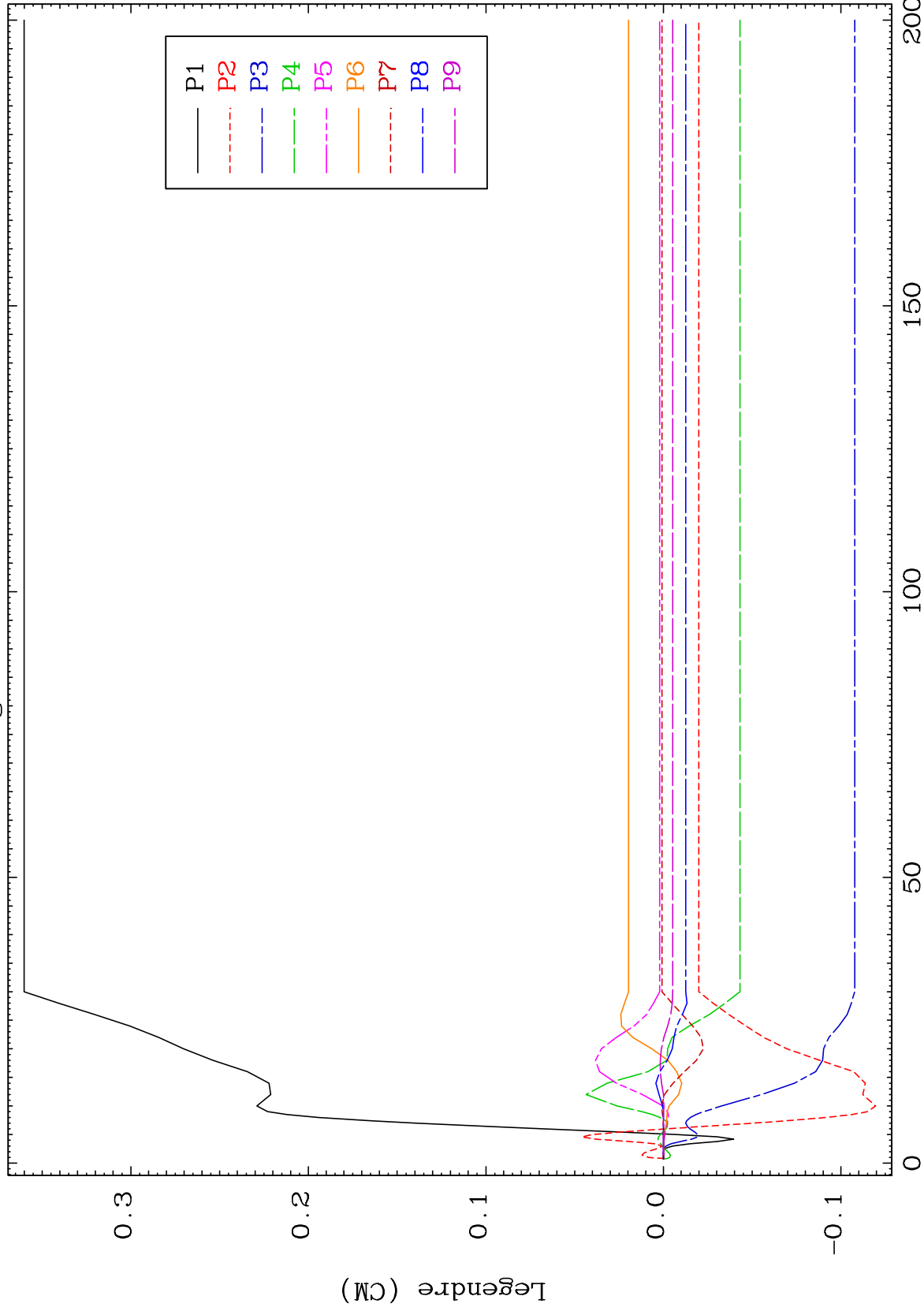


107 61-Pm-156

MAT 6176

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

61-Pm-156



108

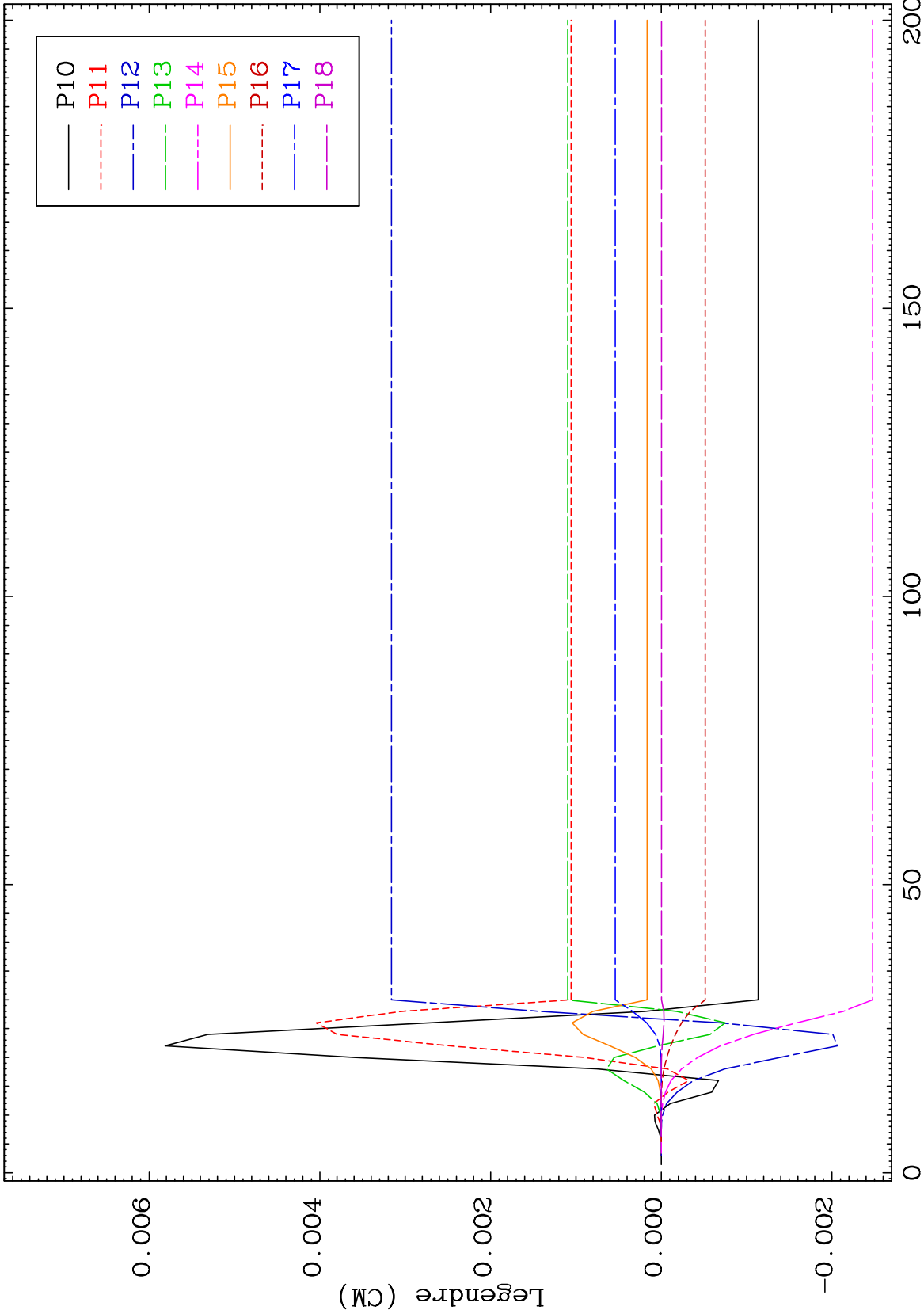
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



109

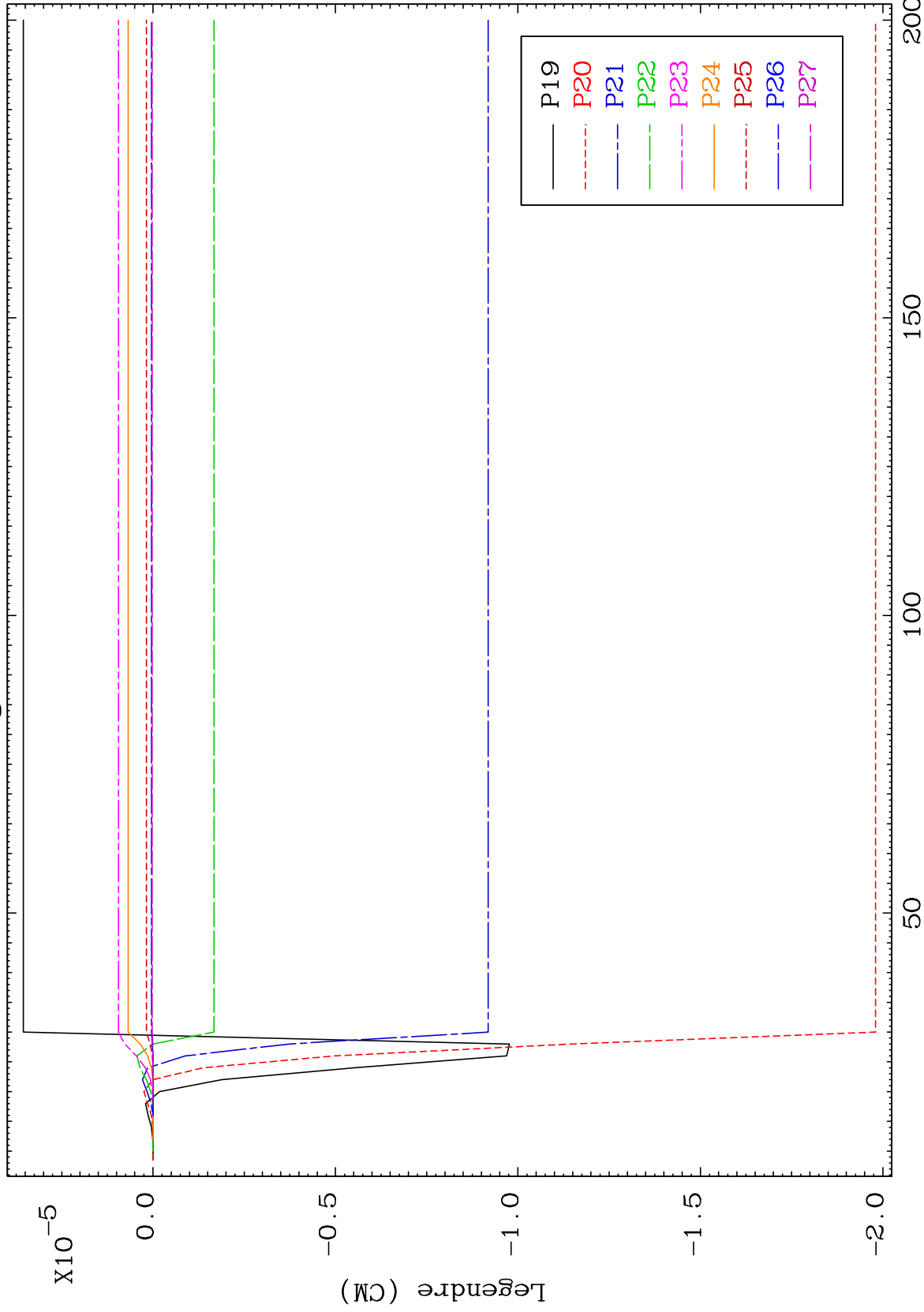
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



110

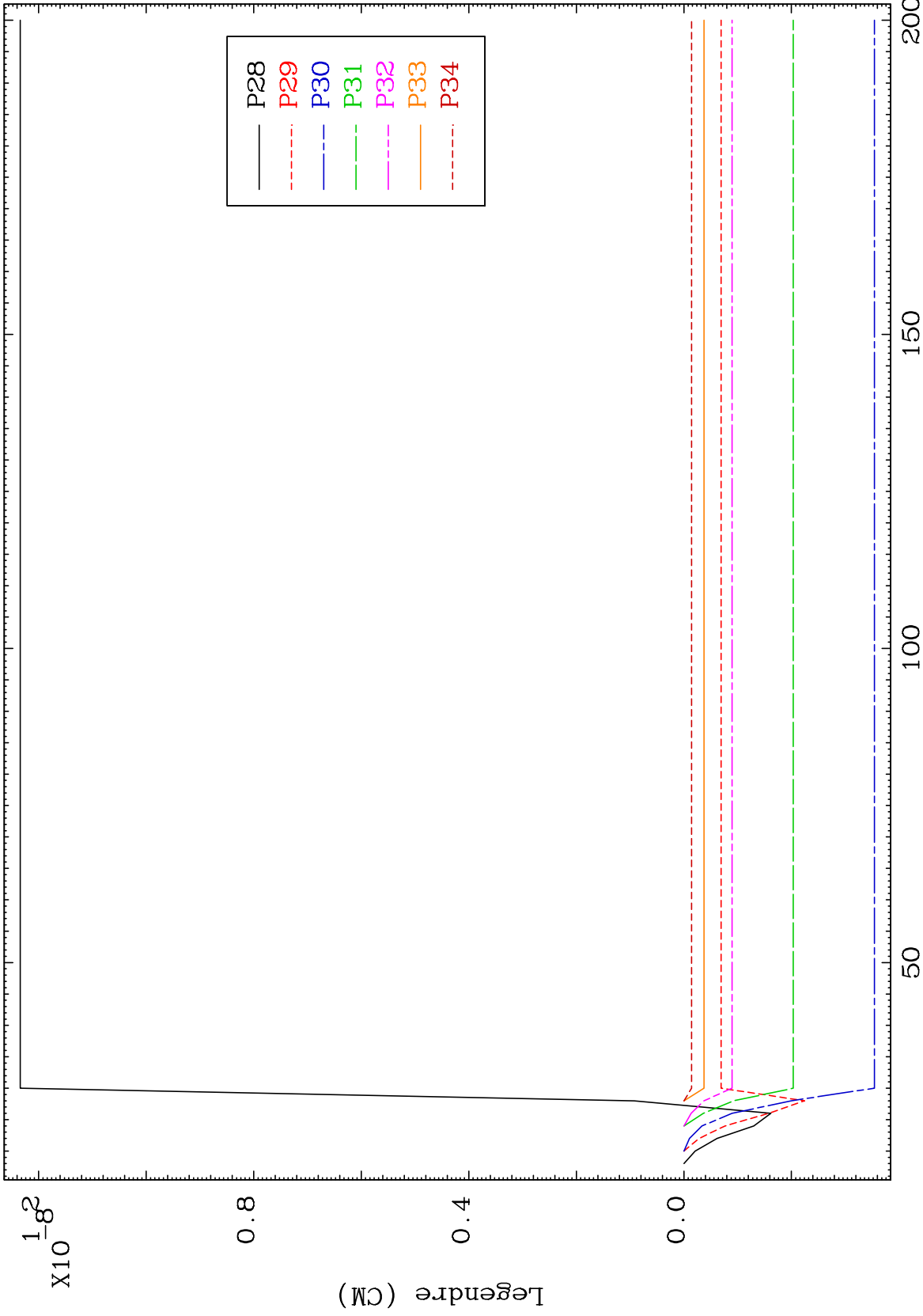
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



111

Incident Energy (MeV)

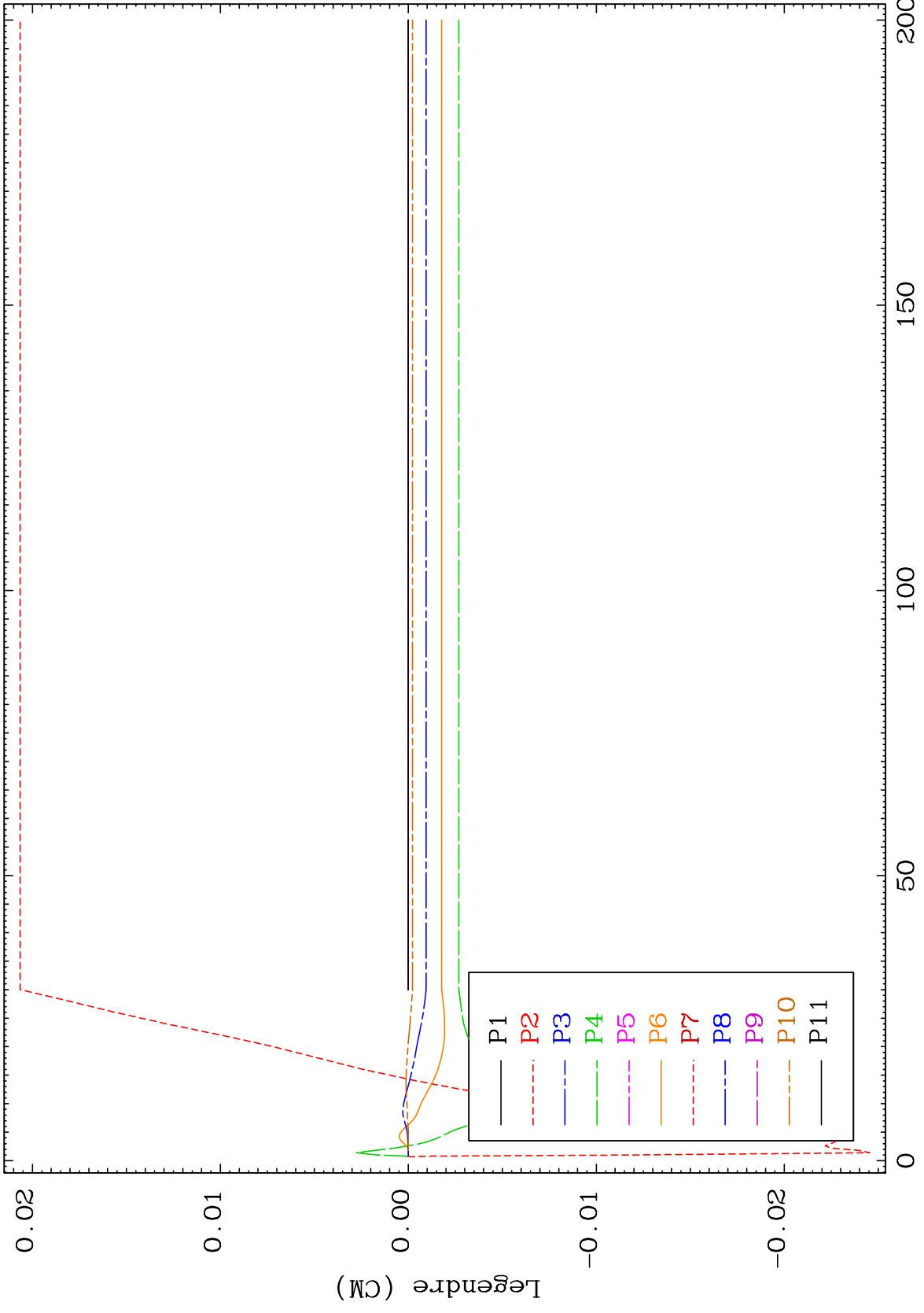
61-Pm-156



MAT 6176

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

61-Pm-156



112

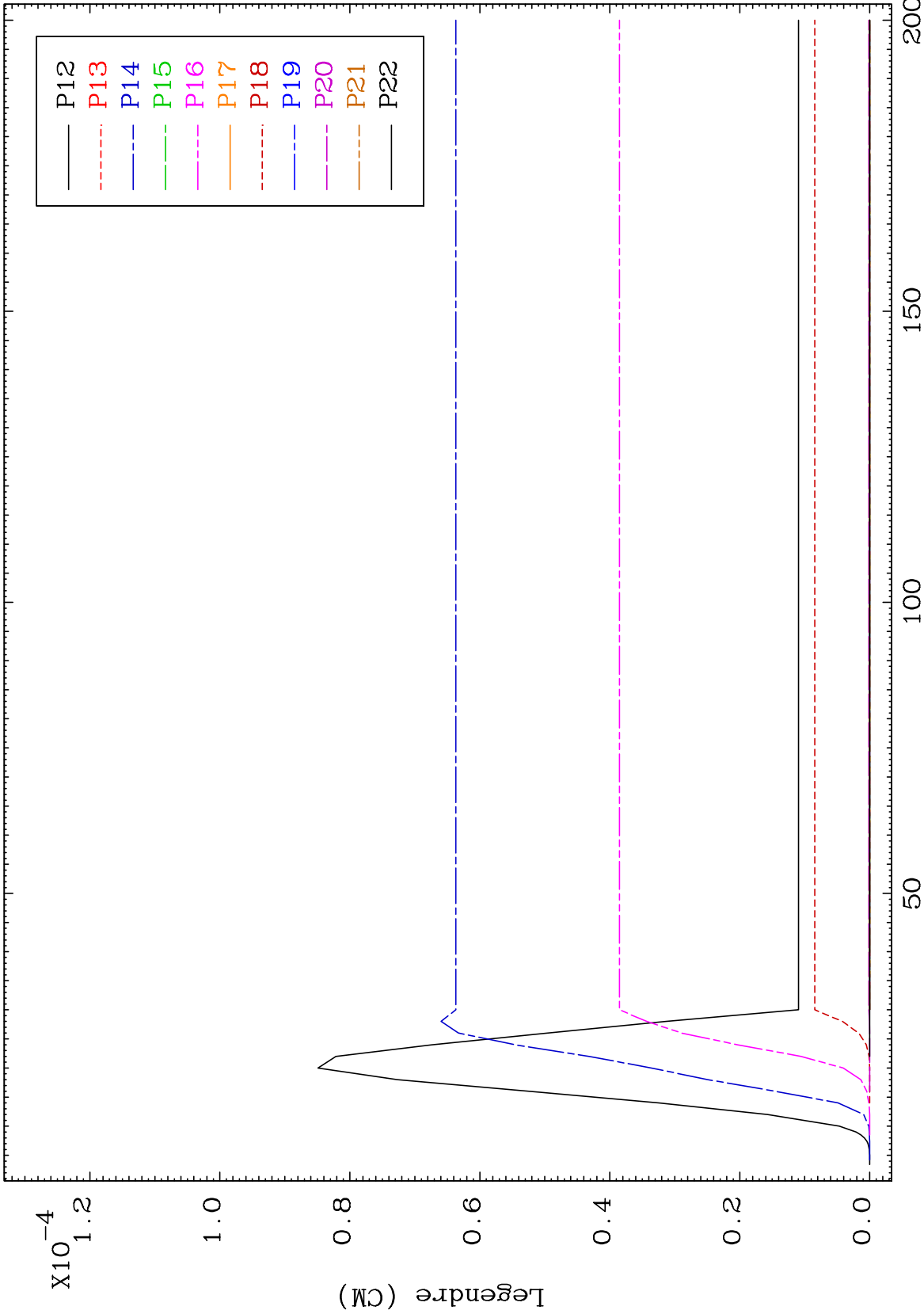
Incident Energy (MeV)

61-Pm-156

MAT 6176

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

61-Pm-156



113

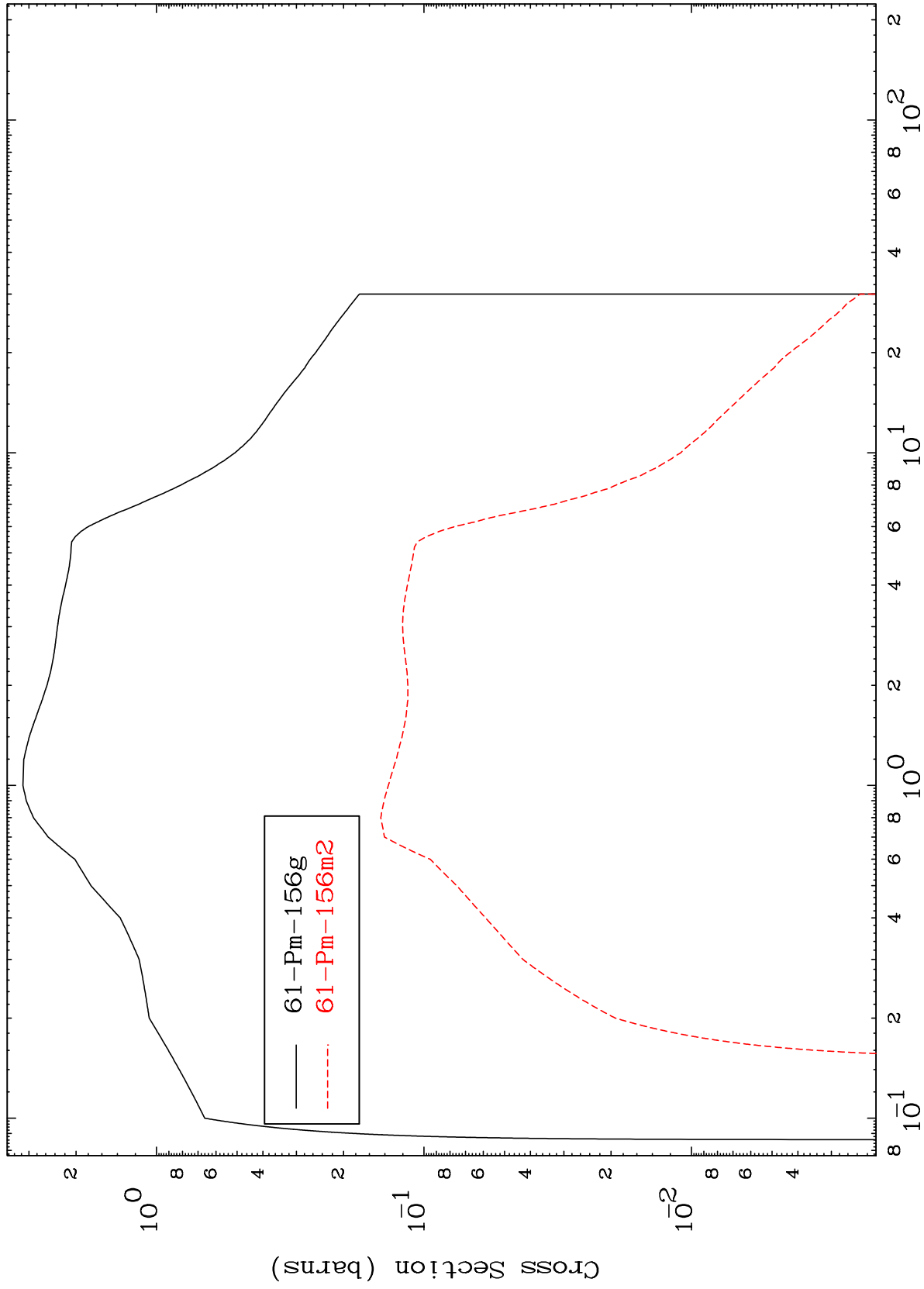
Incident Energy (MeV)

61-Pm-156

MAT 6176

61-Pm-156

# Inelastic Radionuclide Production Cross Section



114

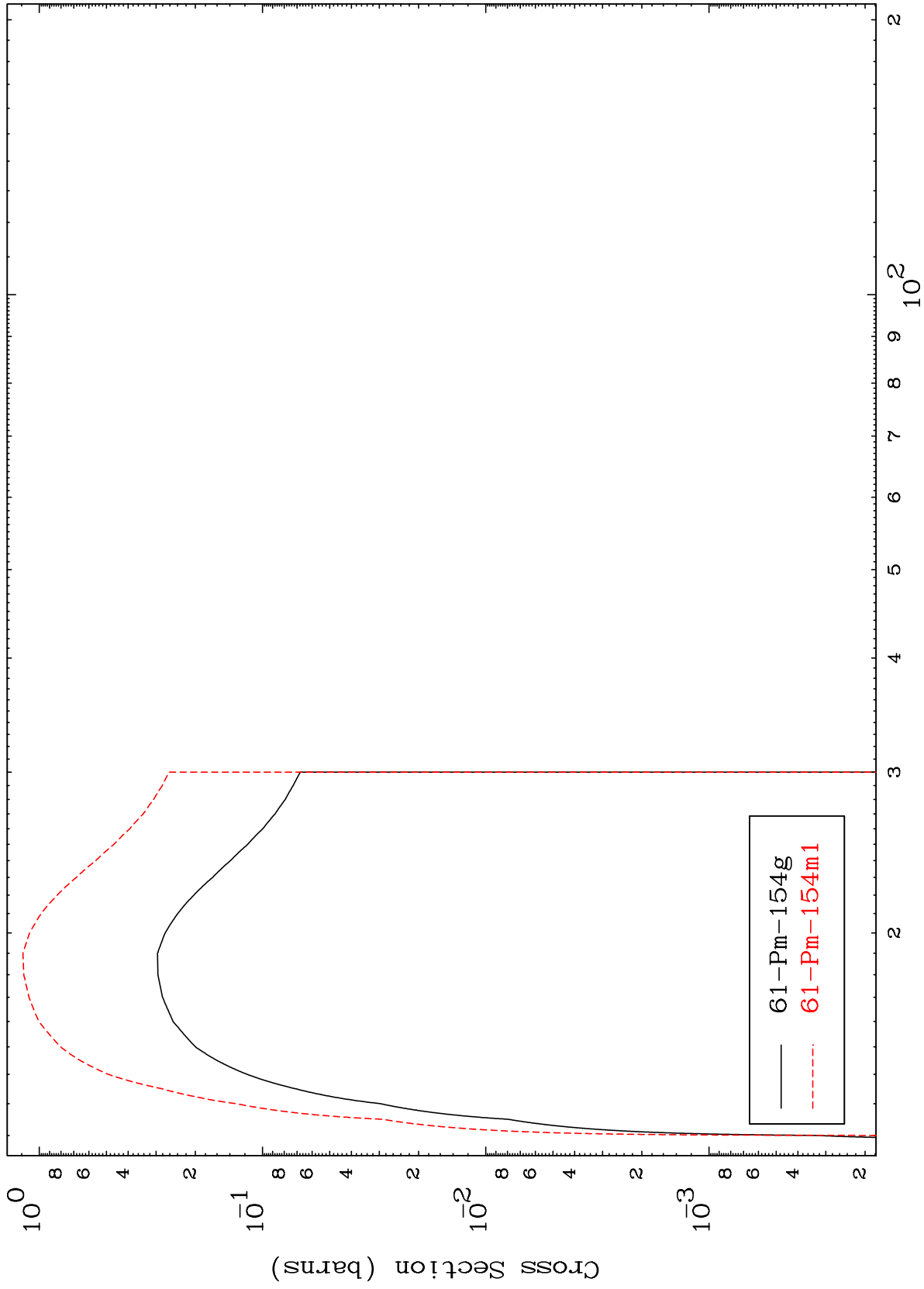
Incident Energy (MeV)

61-Pm-156

MAT 6176

61-Pm-156

(n,3n)  
Radionuclide Production Cross Section



115

61-Pm-156