

Program EVALPLOT  
(Version 2018-1)

by

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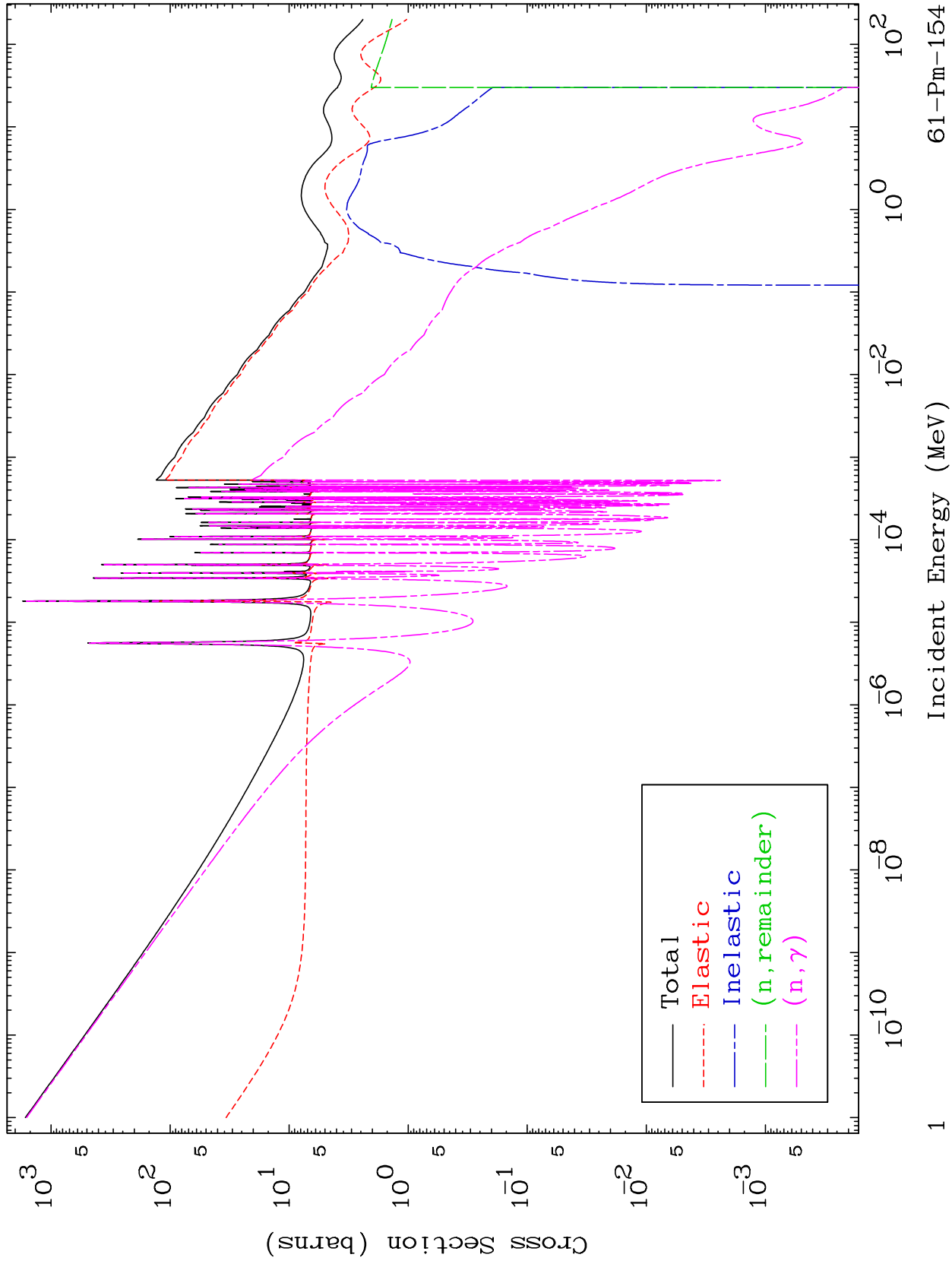
Press Mouse Button to Start

MAT 6170

Major

293 Kelvin Cross Sections

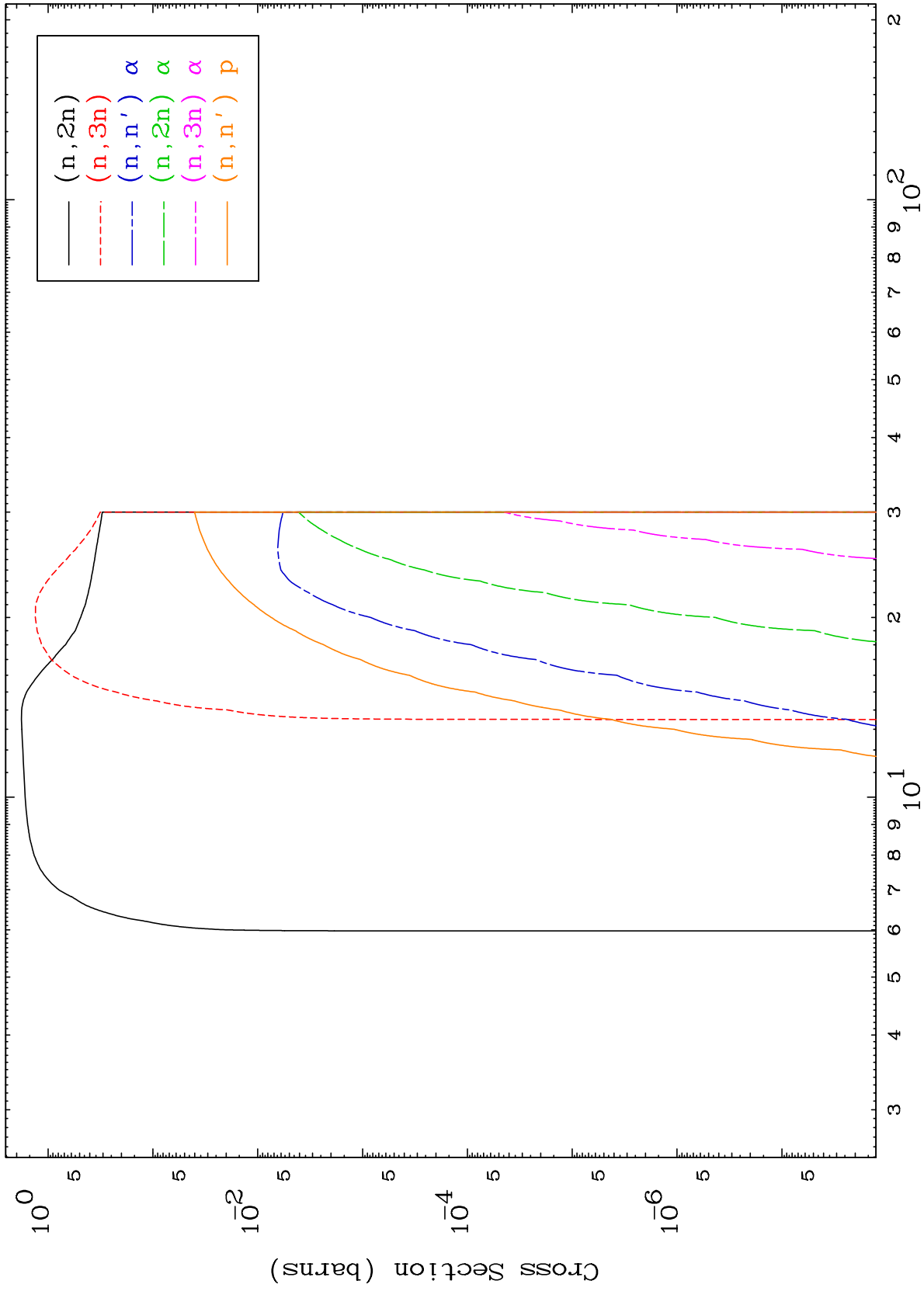
61-Pm-154



MAT 6170

Neutron Production  
293 Kelvin Cross Sections

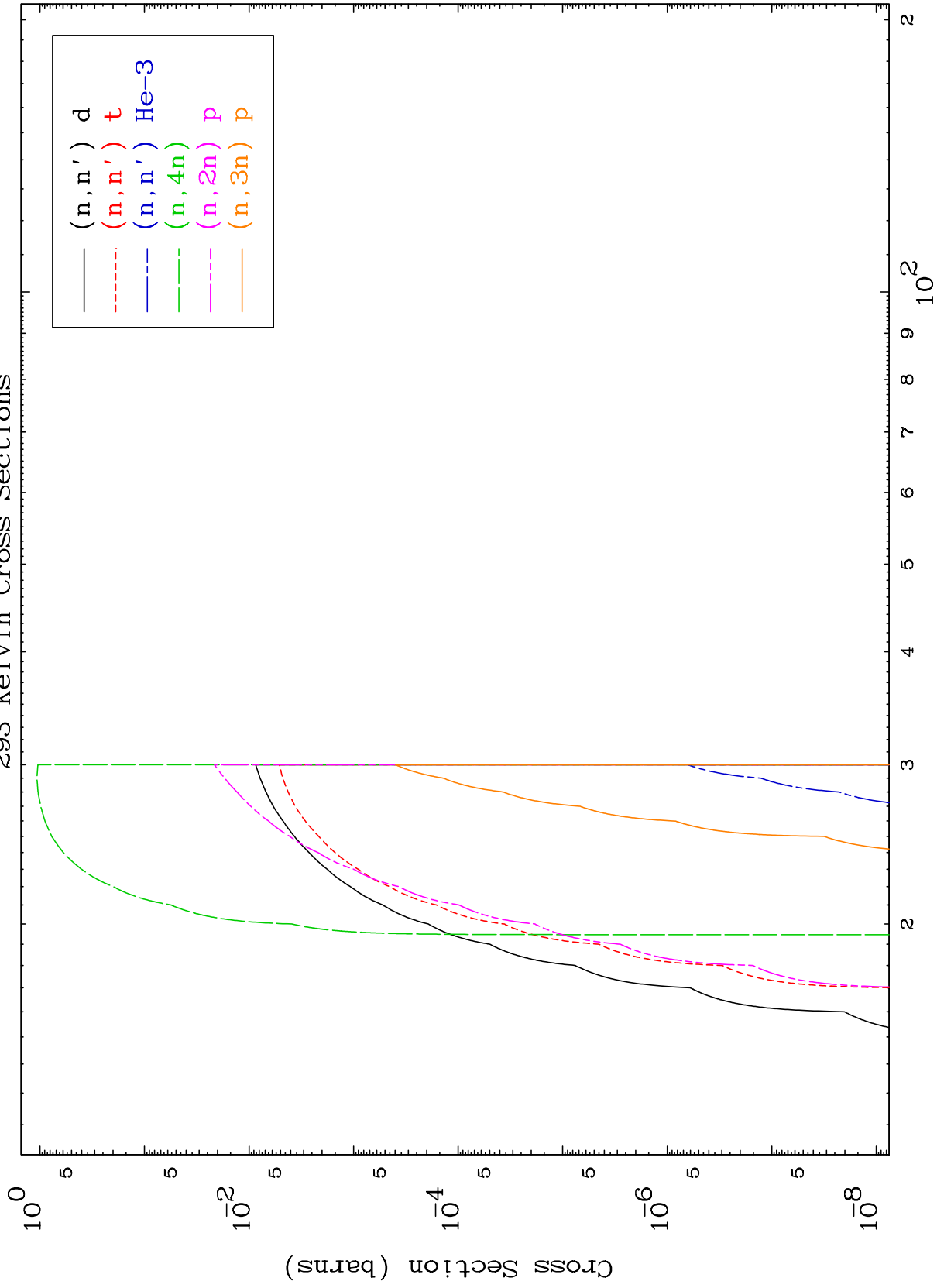
61-Pm-154

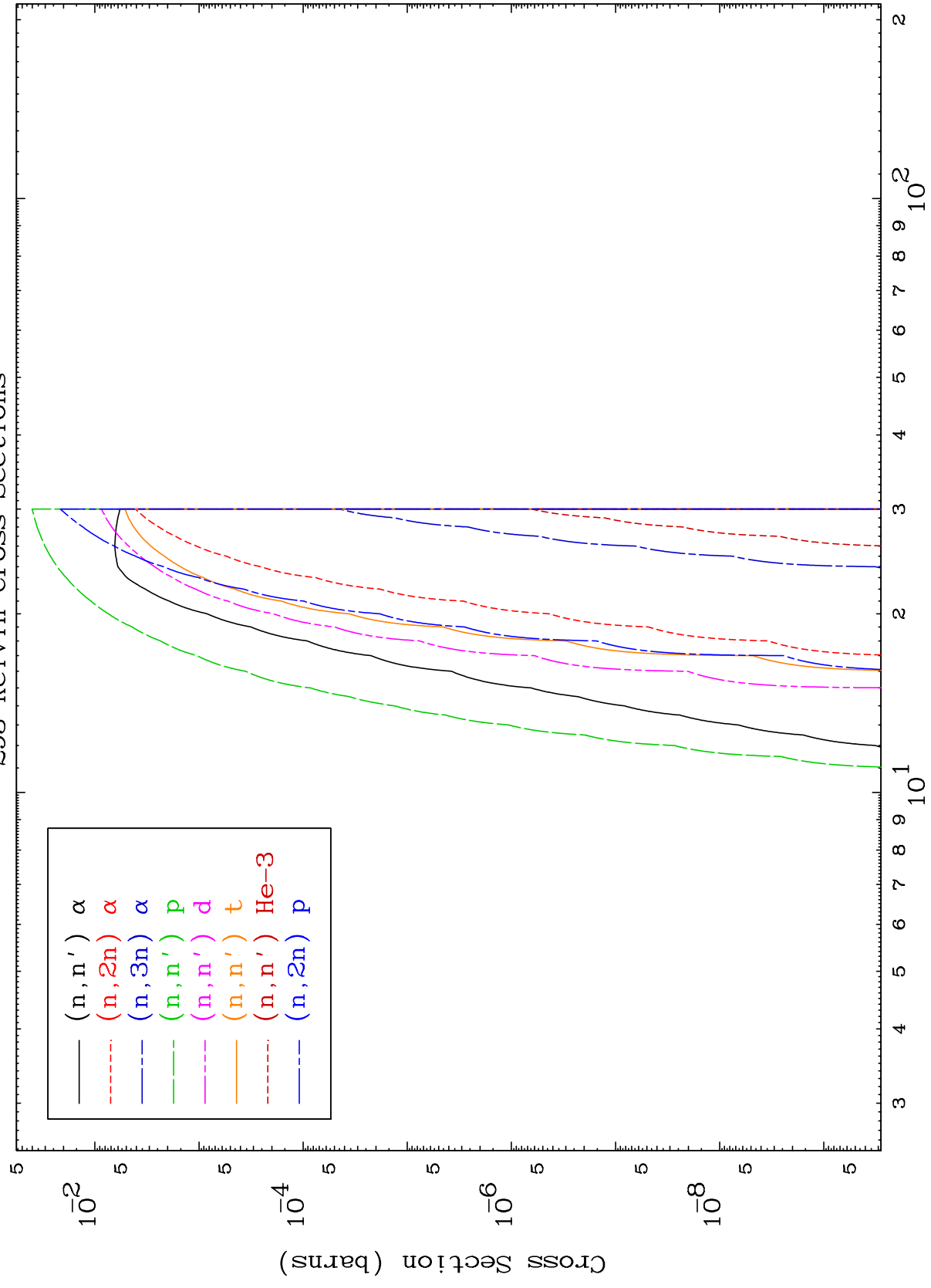


2

Incident Energy (MeV)

61-Pm-154

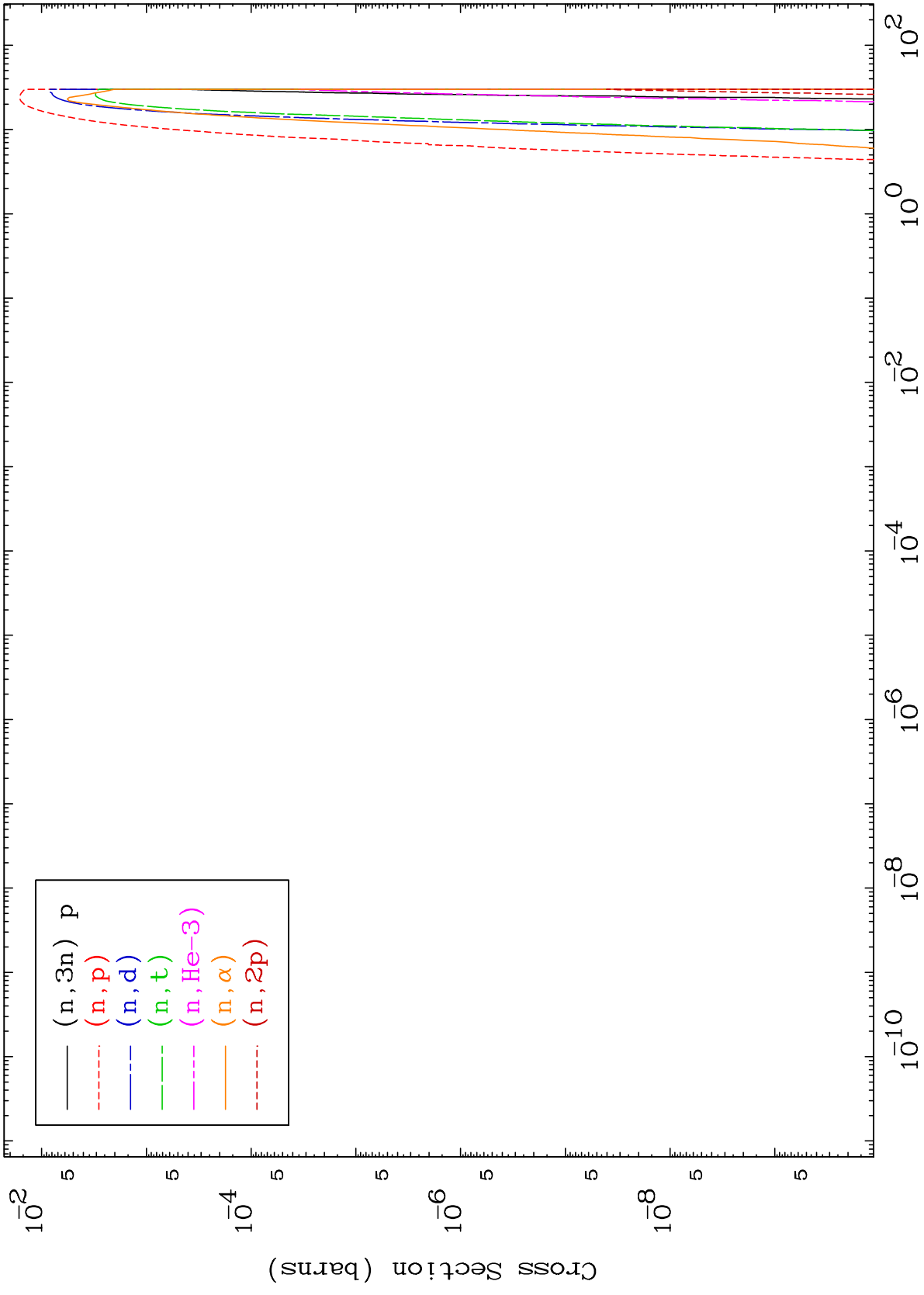




MAT 6170

Charged Particle  
293 Kelvin Cross Sections

61-Pm-154



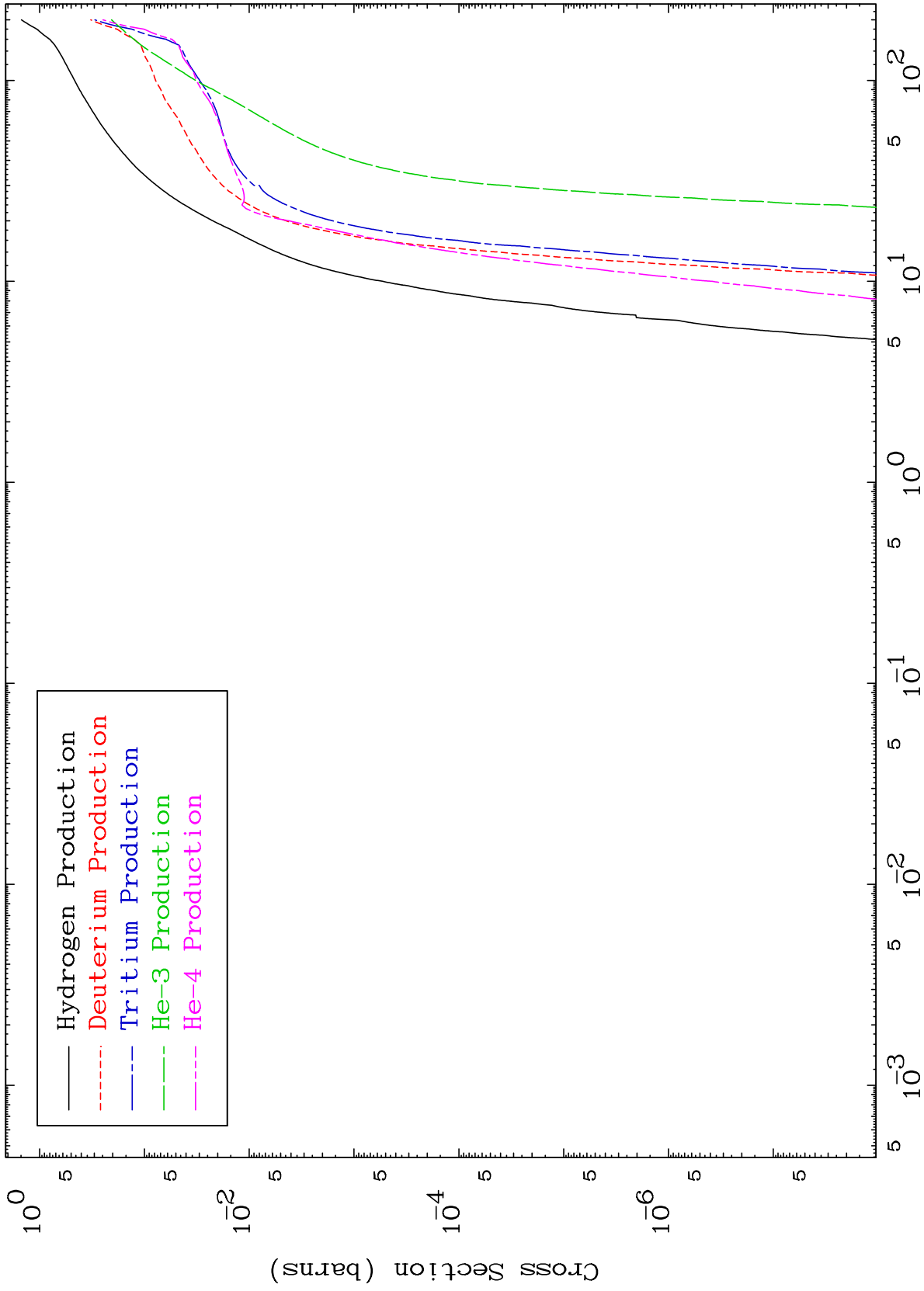
5

61-Pm-154

MAT 6170

Particle Production  
293 Kelvin Cross Sections

61-Pm-154



6

Incident Energy (MeV)

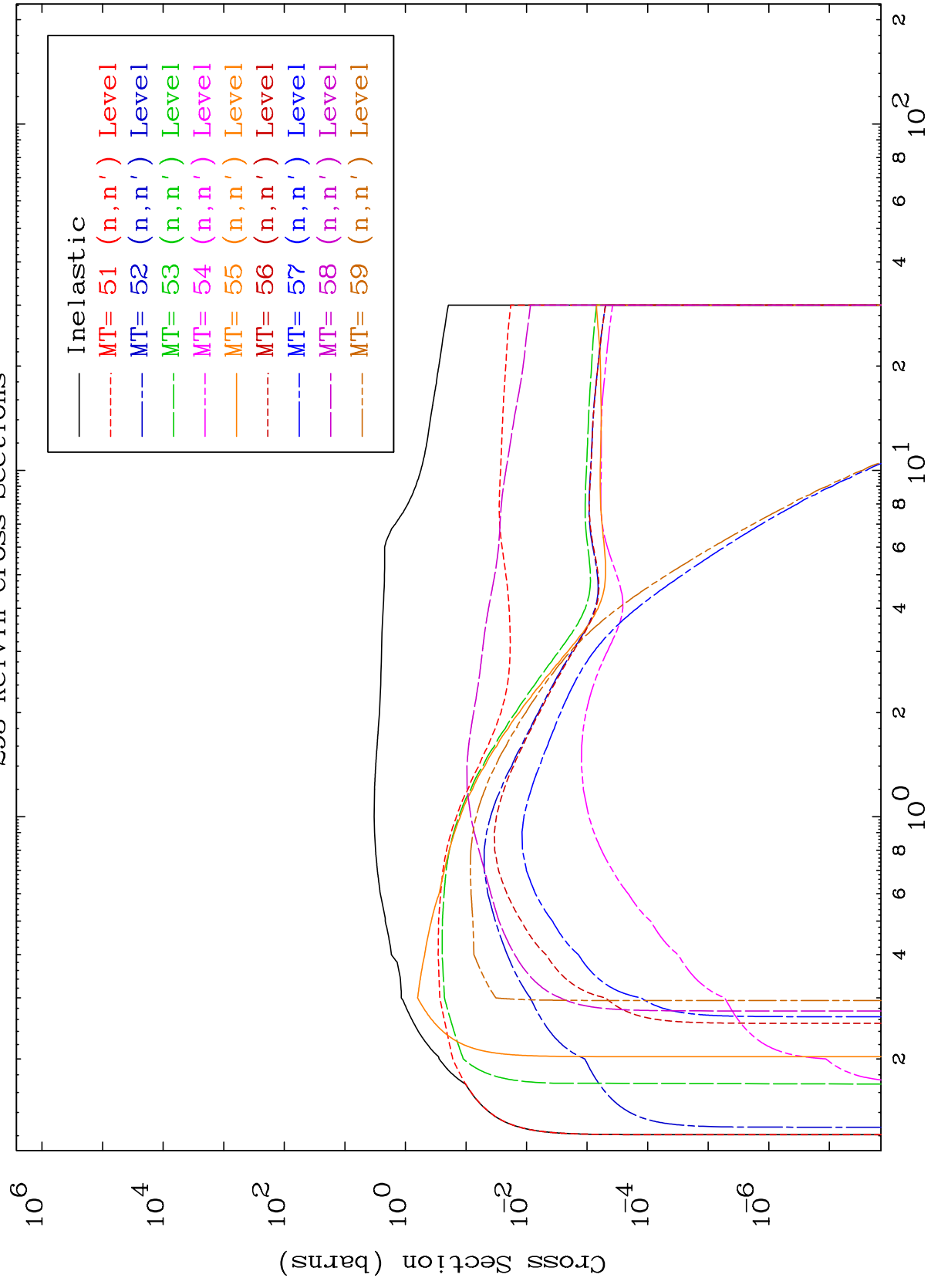
61-Pm-154

MAT 6170

(n,n') Level

61-Pm-154

293 Kelvin Cross Sections

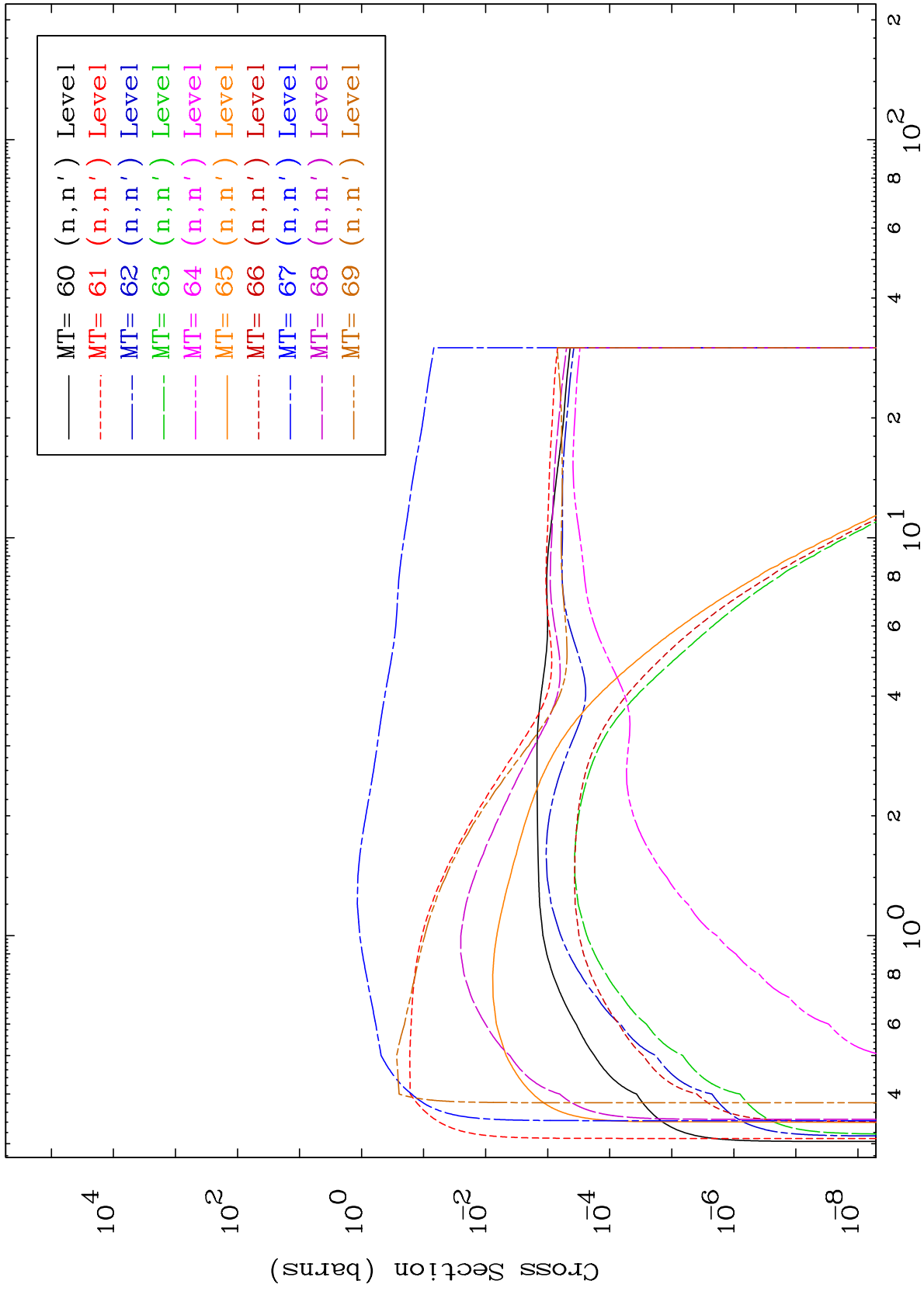




MAT 6170

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-154



8

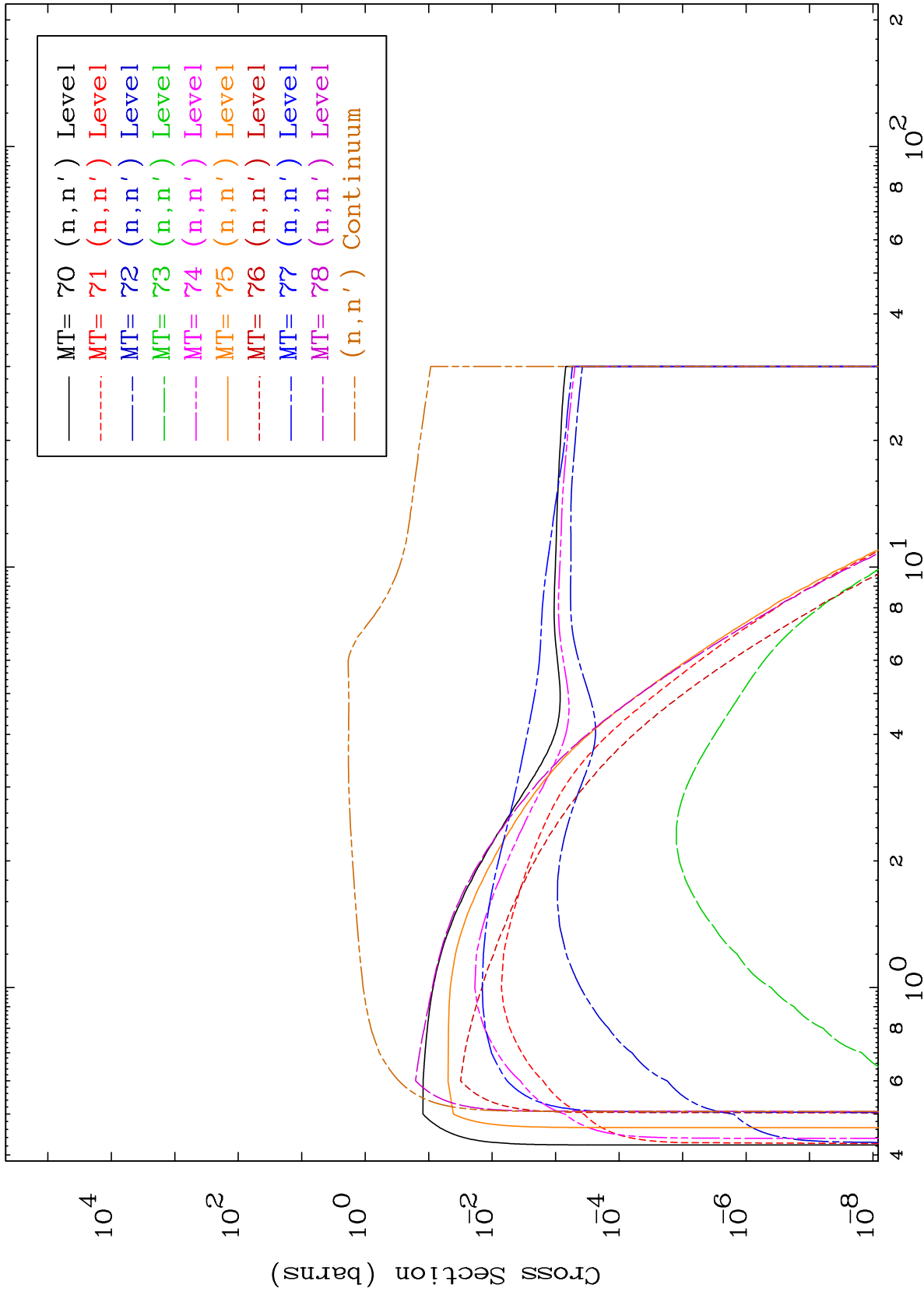
Incident Energy (MeV)

61-Pm-154

MAT 6170

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-154



9

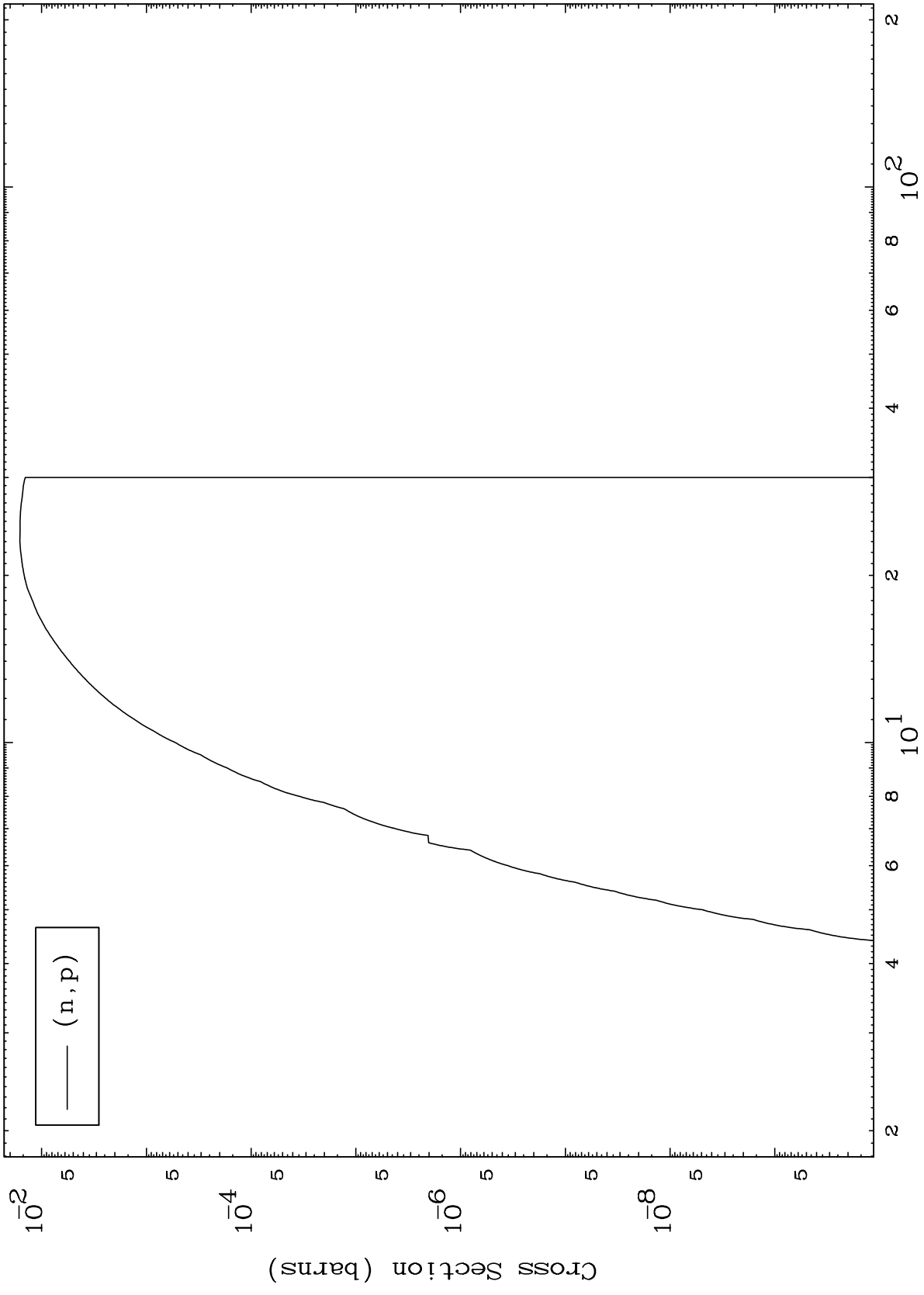
Incident Energy (MeV)

61-Pm-154

MAT 6170

(n,p) Levels  
293 Kelvin Cross Sections

61-Pm-154



10

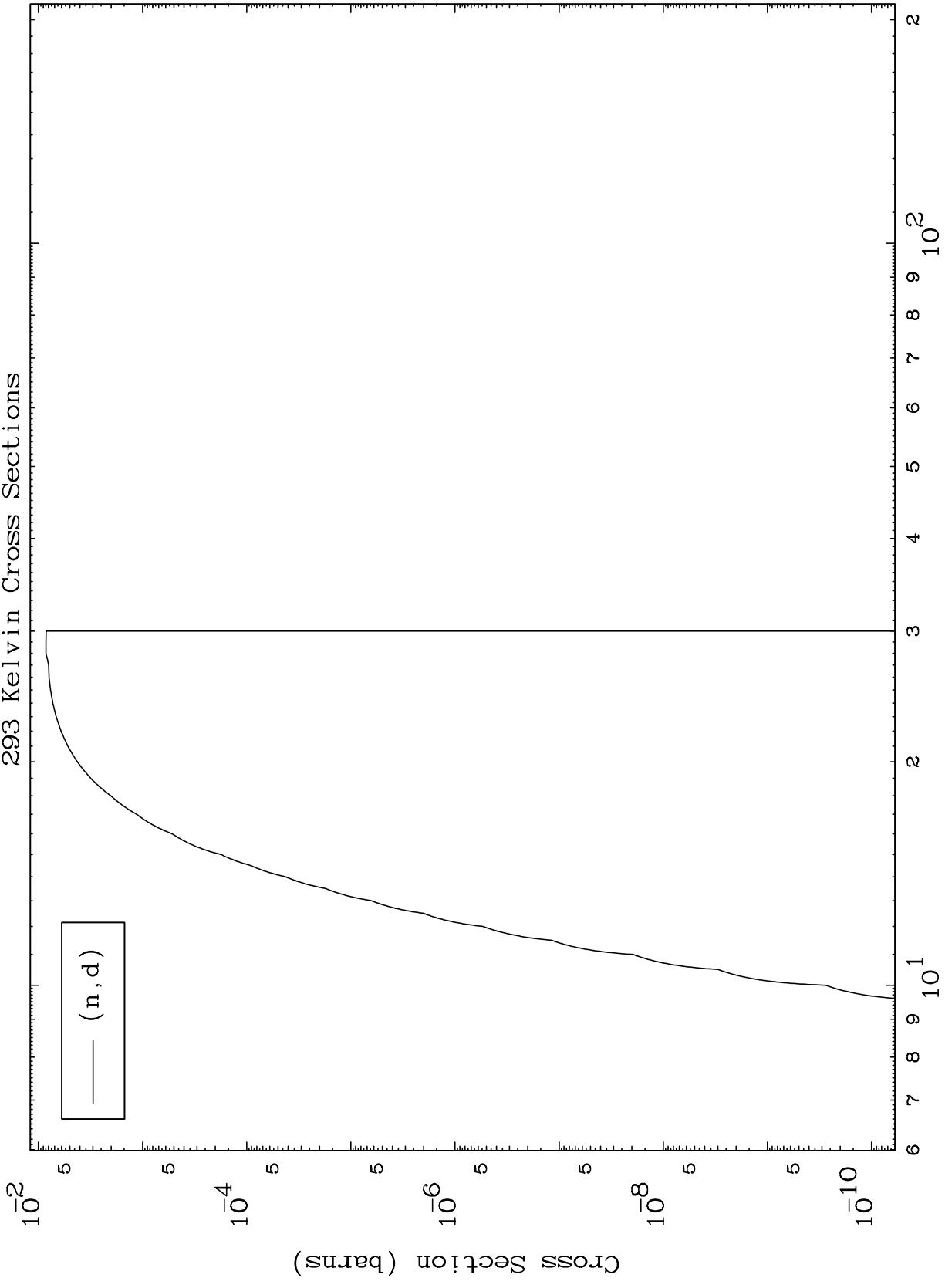
Incident Energy (MeV)

61-Pm-154

MAT 6170

(n,d) Levels  
293 Kelvin Cross Sections

61-Pm-154



11

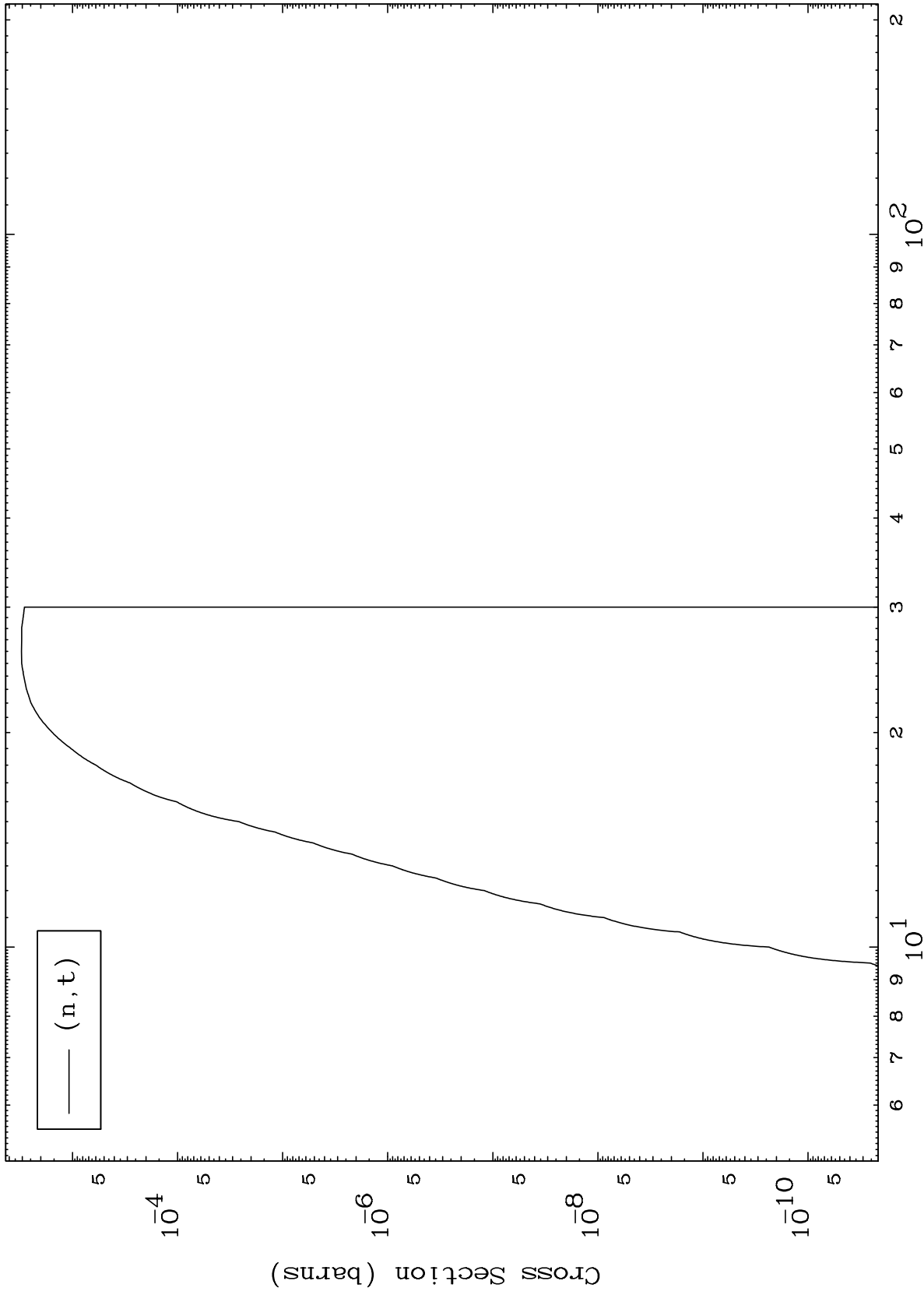
Incident Energy (MeV)

61-Pm-154

MAT 6170

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-154



12

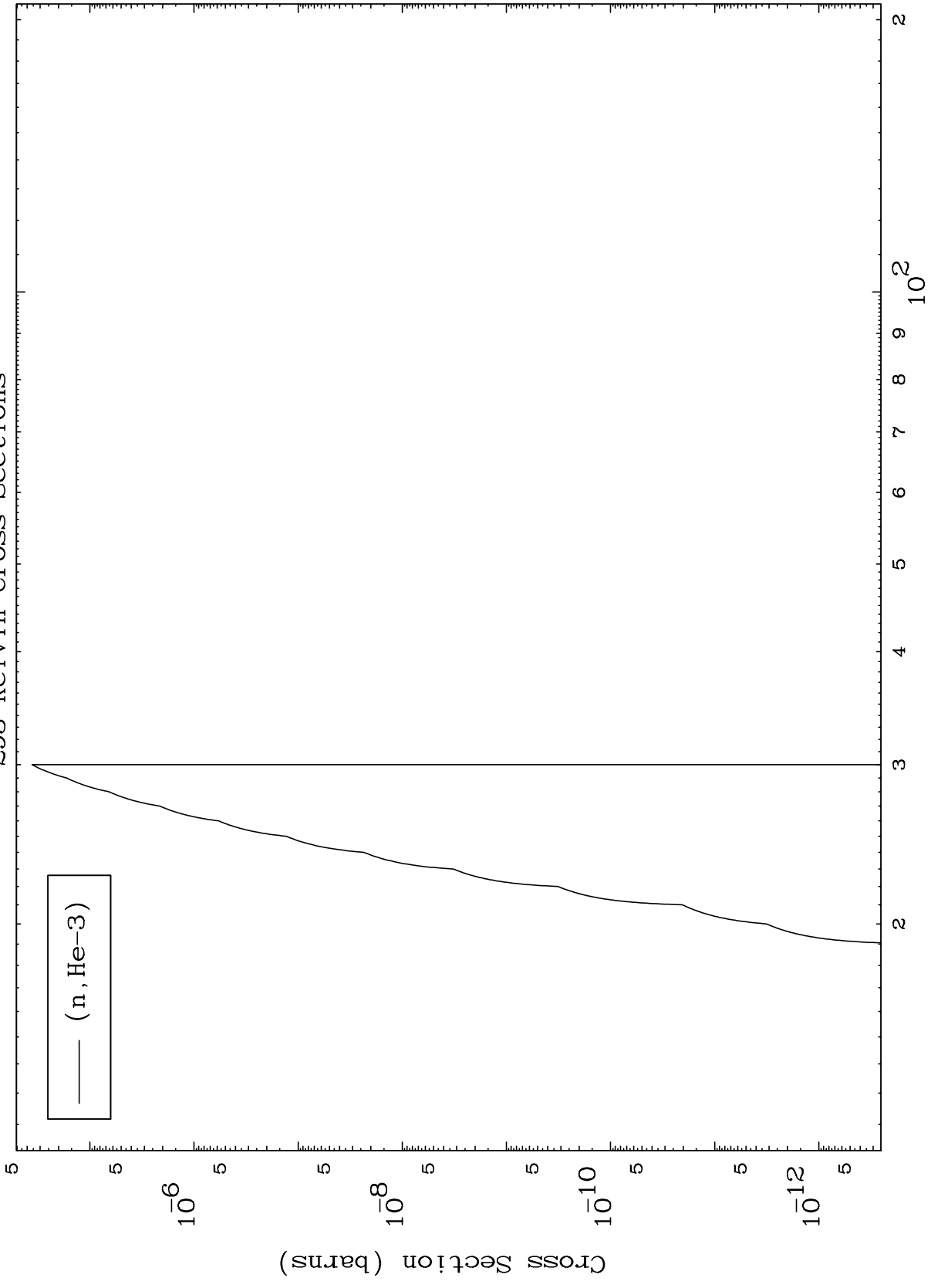
Incident Energy (MeV)

61-Pm-154

MAT 6170

(n,He3) Levels  
293 Kelvin Cross Sections

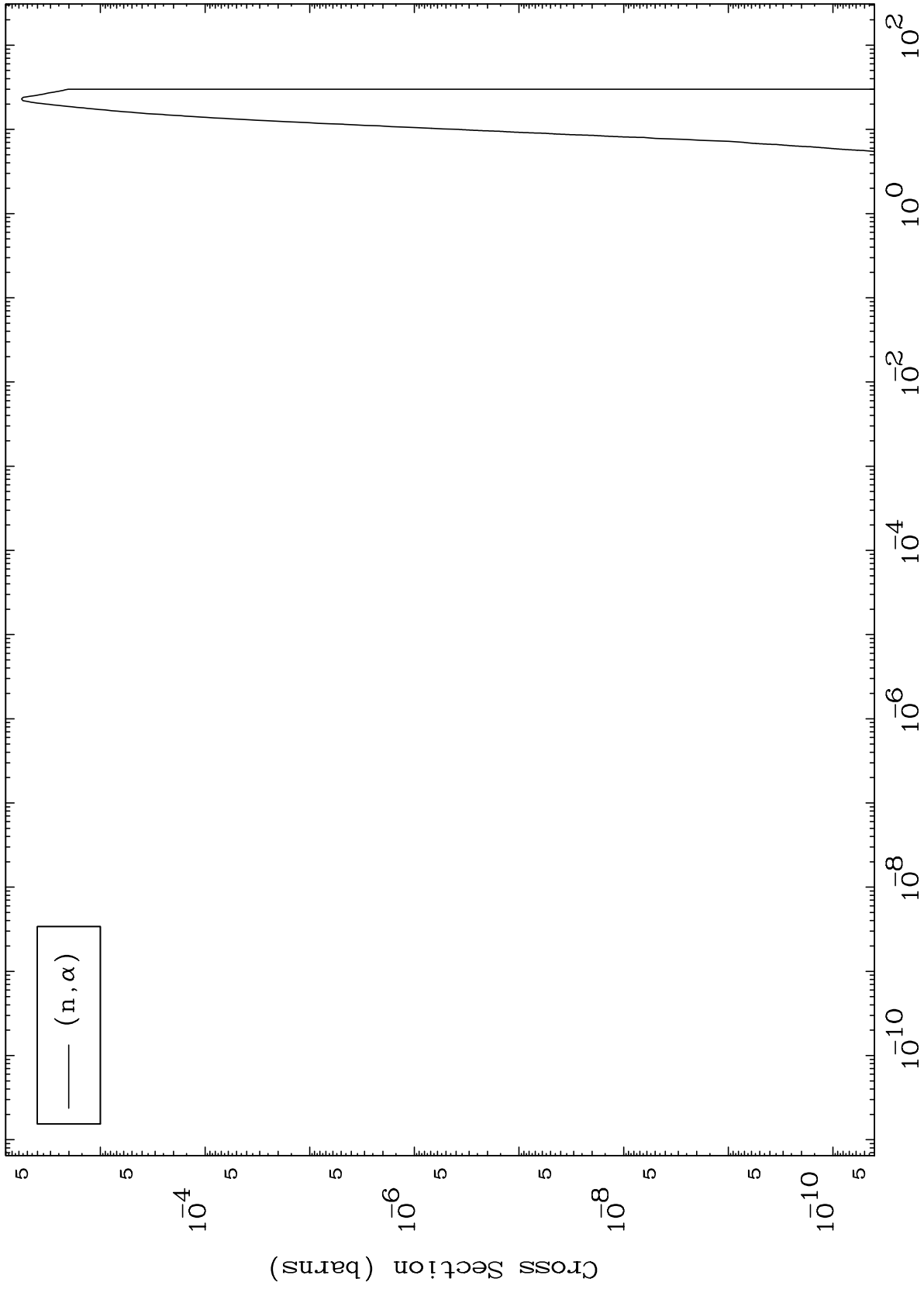
61-Pm-154



MAT 6170

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

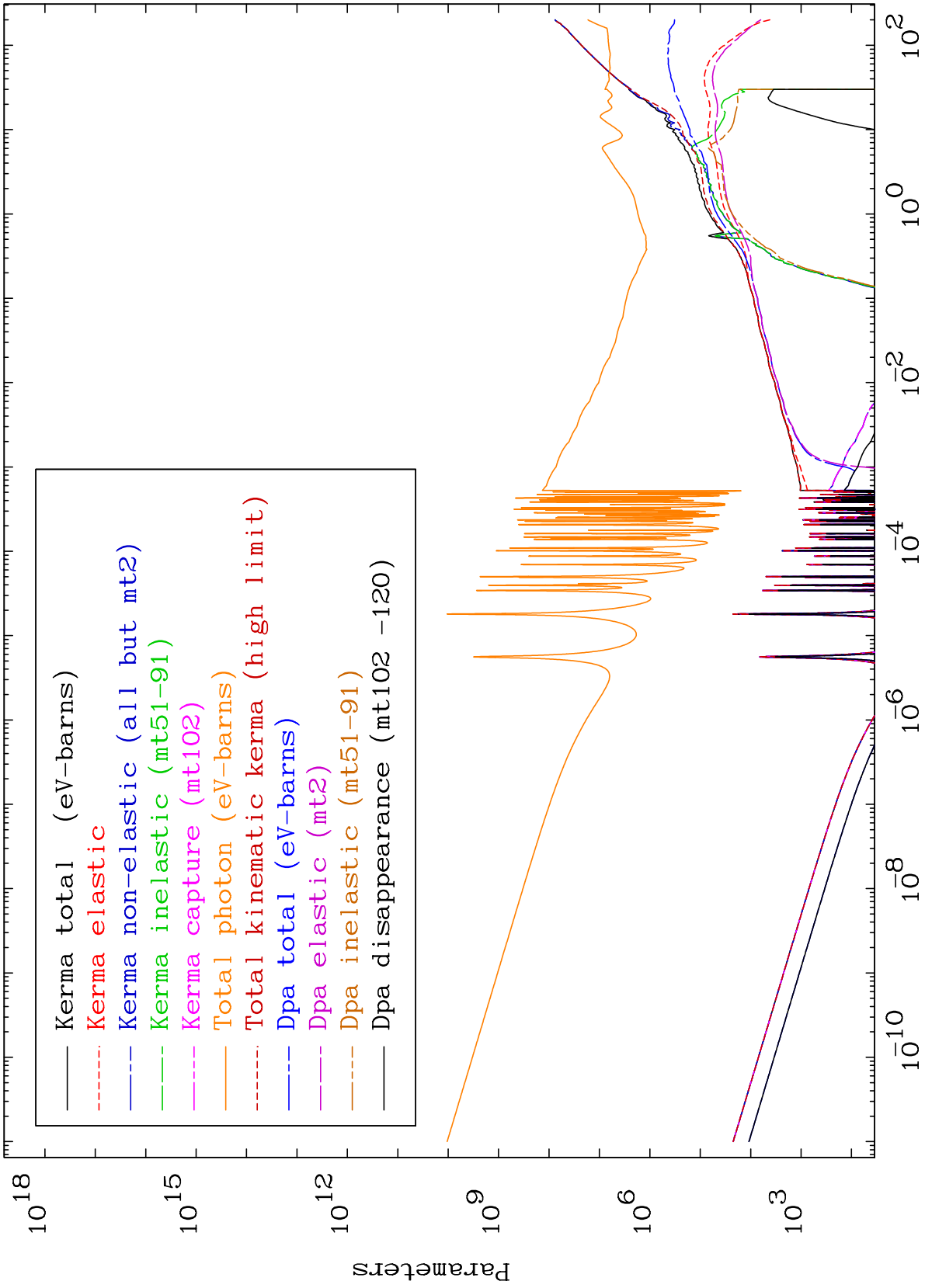
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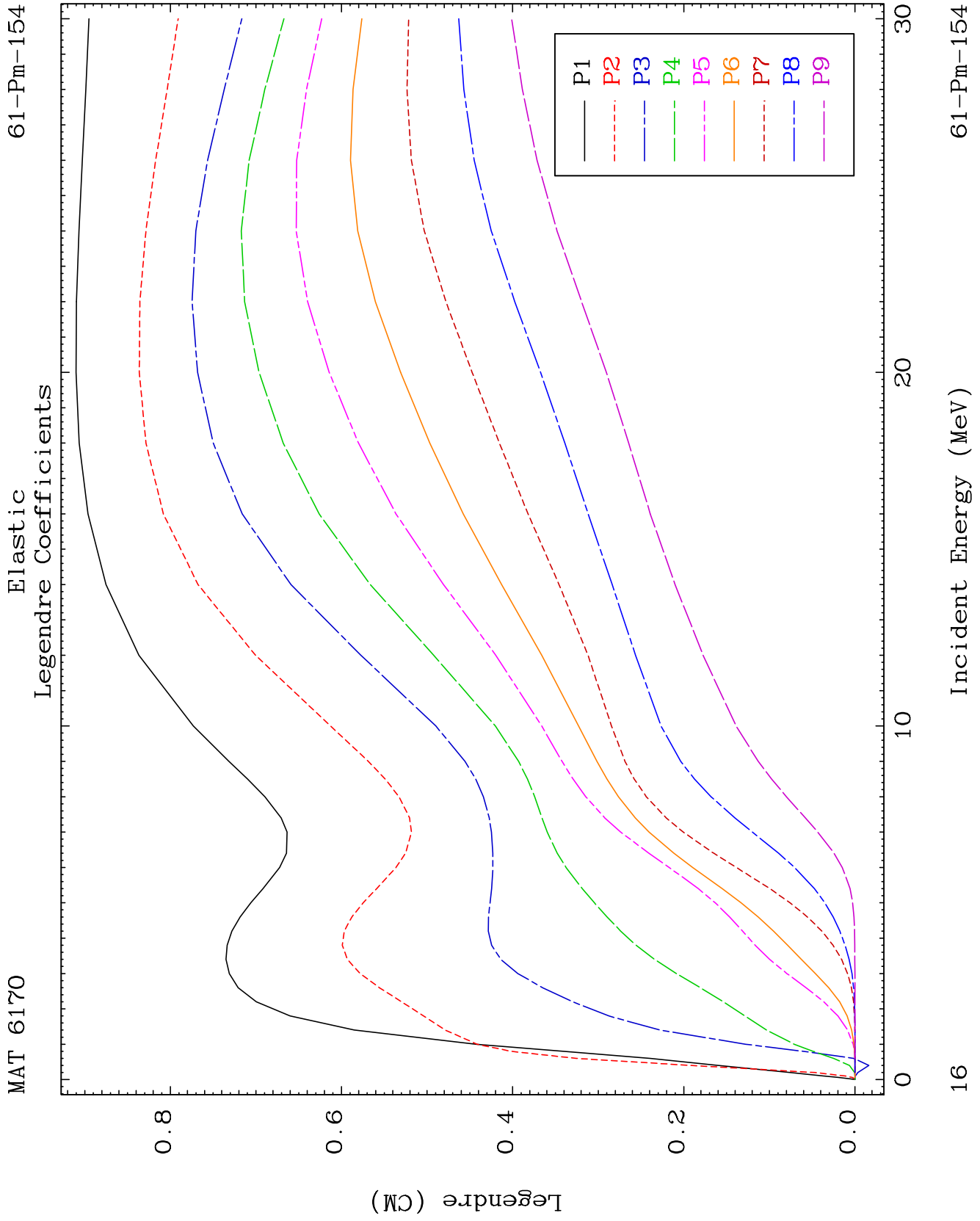
14

Incident Energy (MeV)

61-Pm-154



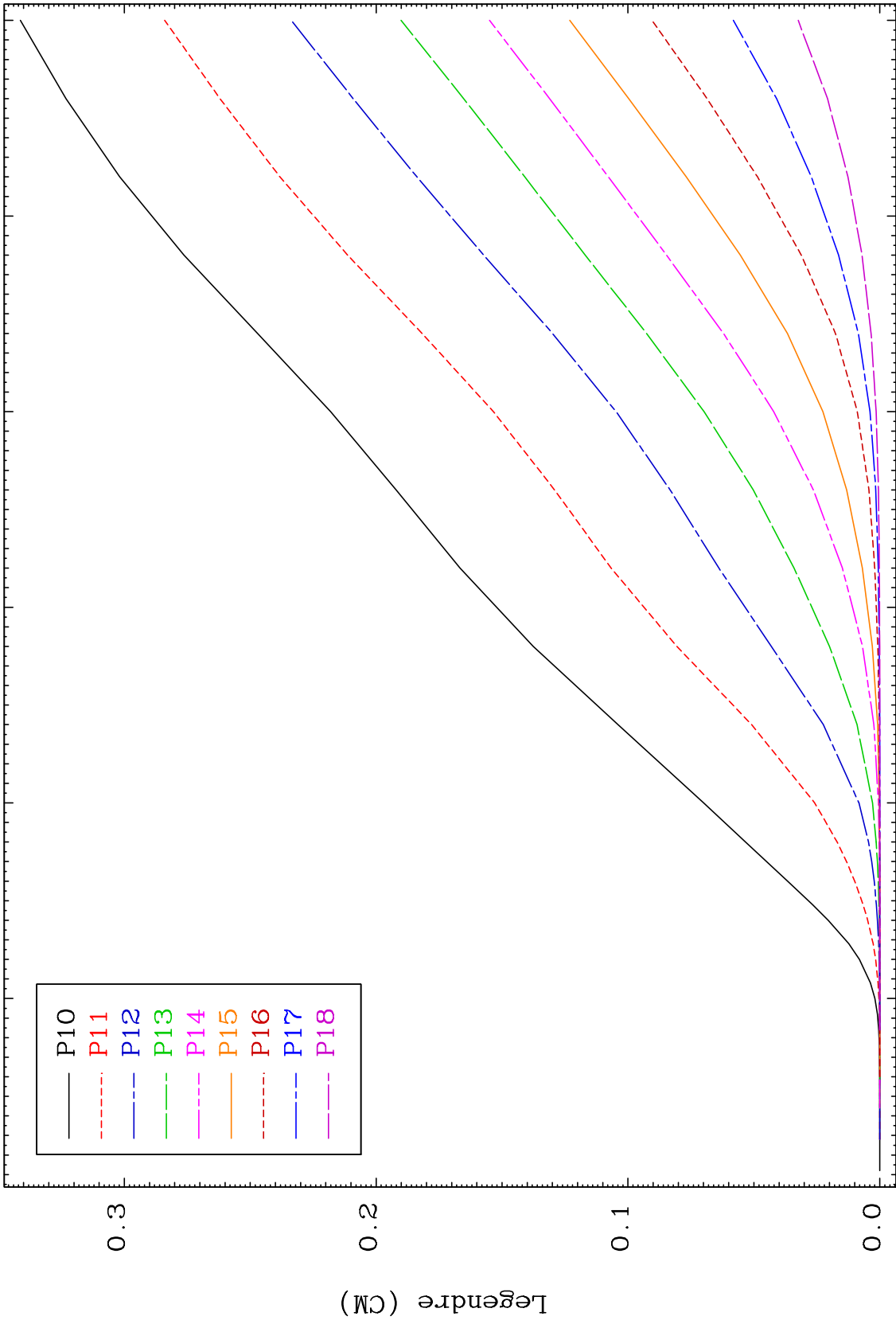




MAT 6170

Elastic Legendre Coefficients

61-Pm-154



17

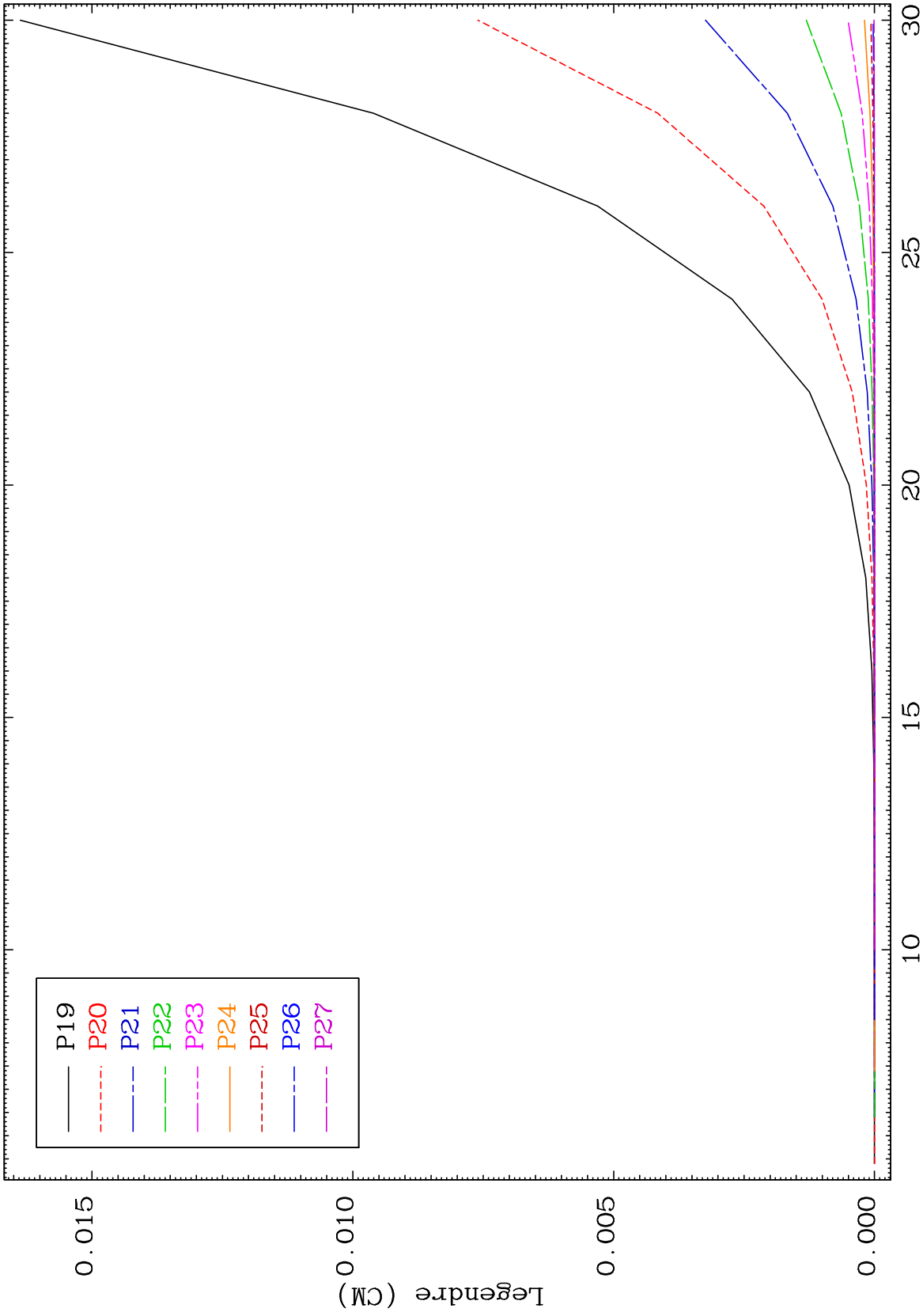
Incident Energy (MeV)

61-Pm-154

MAT 6170

Elastic Legendre Coefficients

61-Pm-154



18

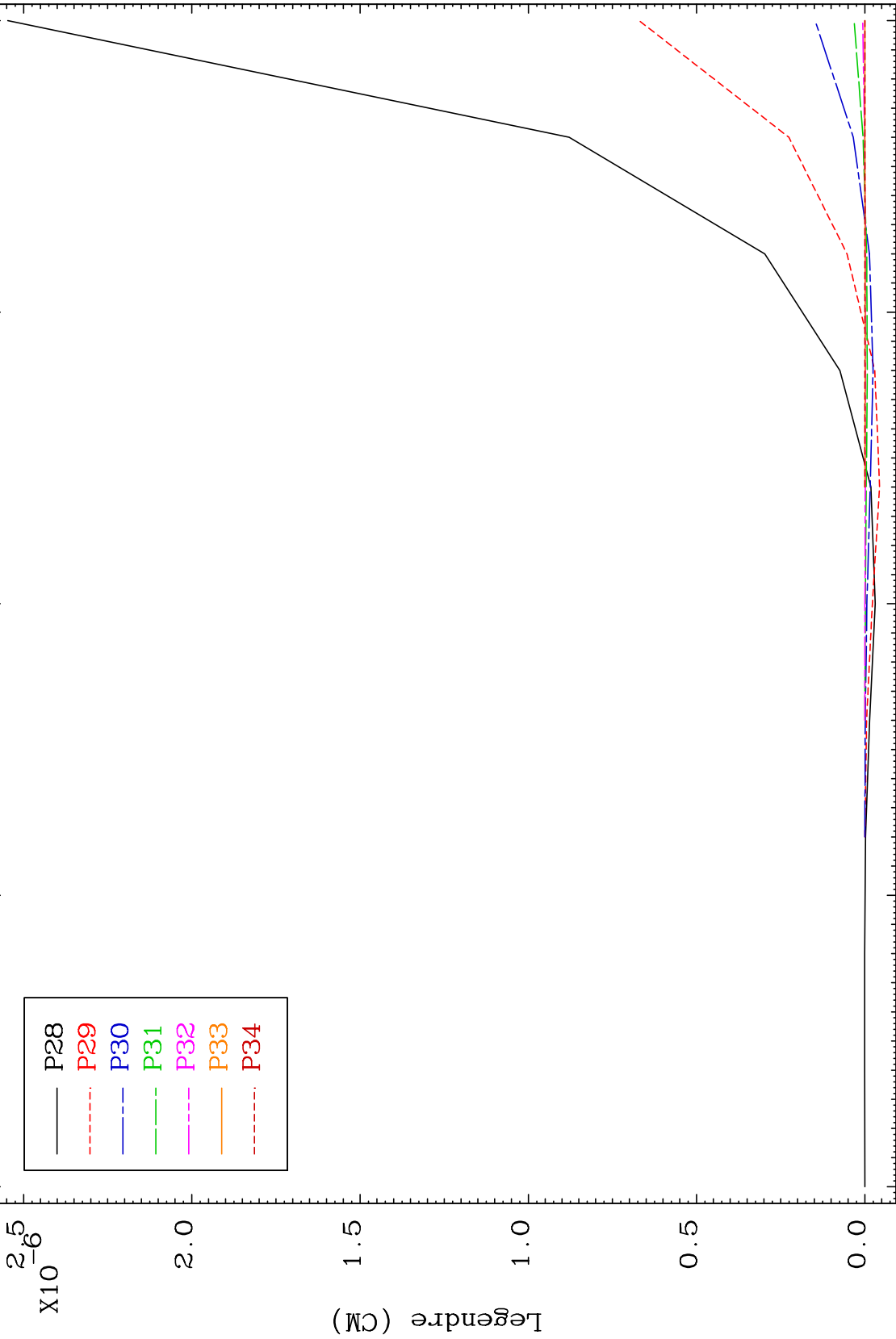
Incident Energy (MeV)

61-Pm-154

MAT 6170

Elastic Legendre Coefficients

61-Pm-154

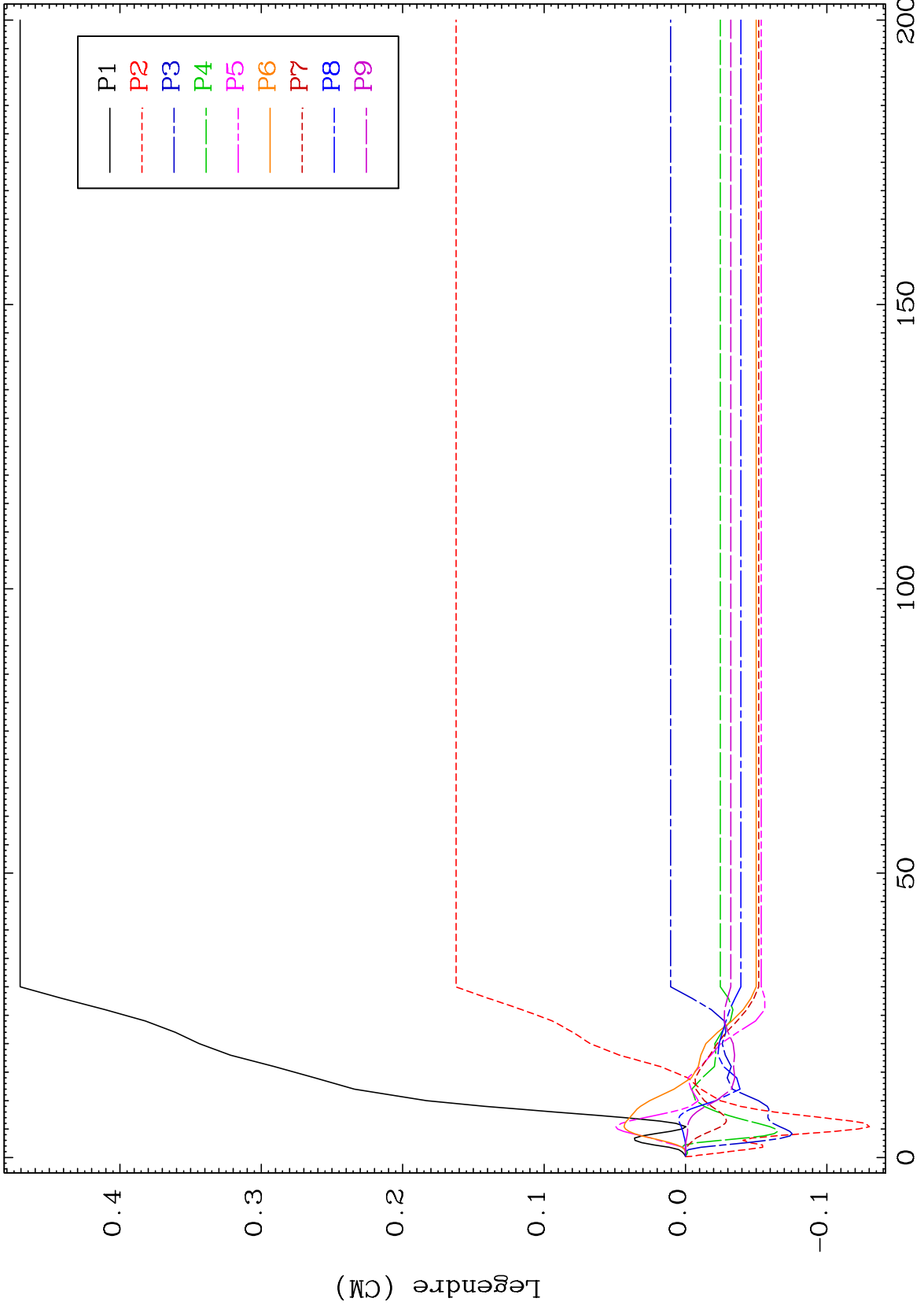


19

Incident Energy (MeV)

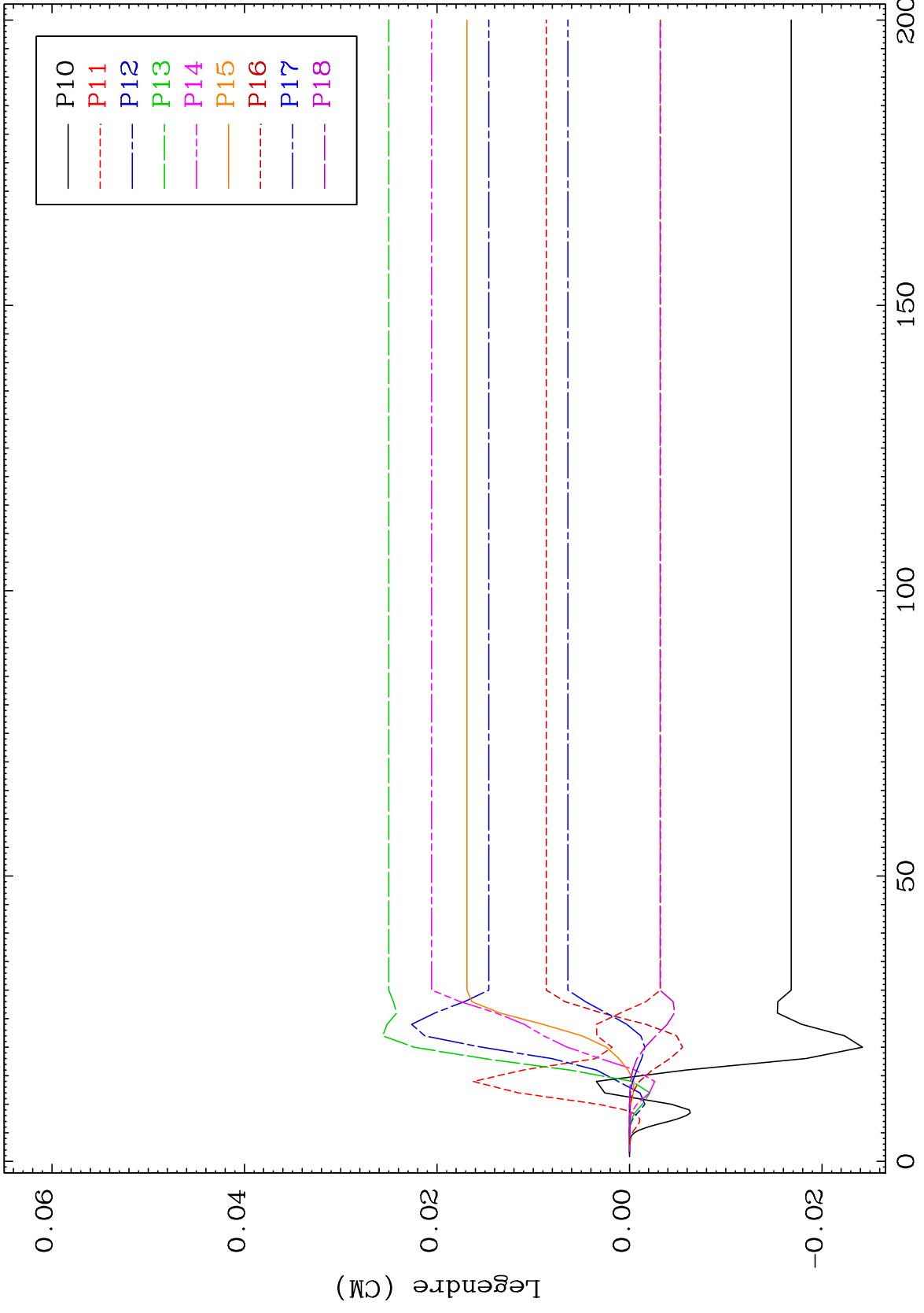
61-Pm-154

MAT 6170 MT= 51 (n,n') Level Legendre Coefficients 61-Pm-154



61-Pm-154

MAT 6170 MT= 51 (n,n') Level Legendre Coefficients 61-Pm-154

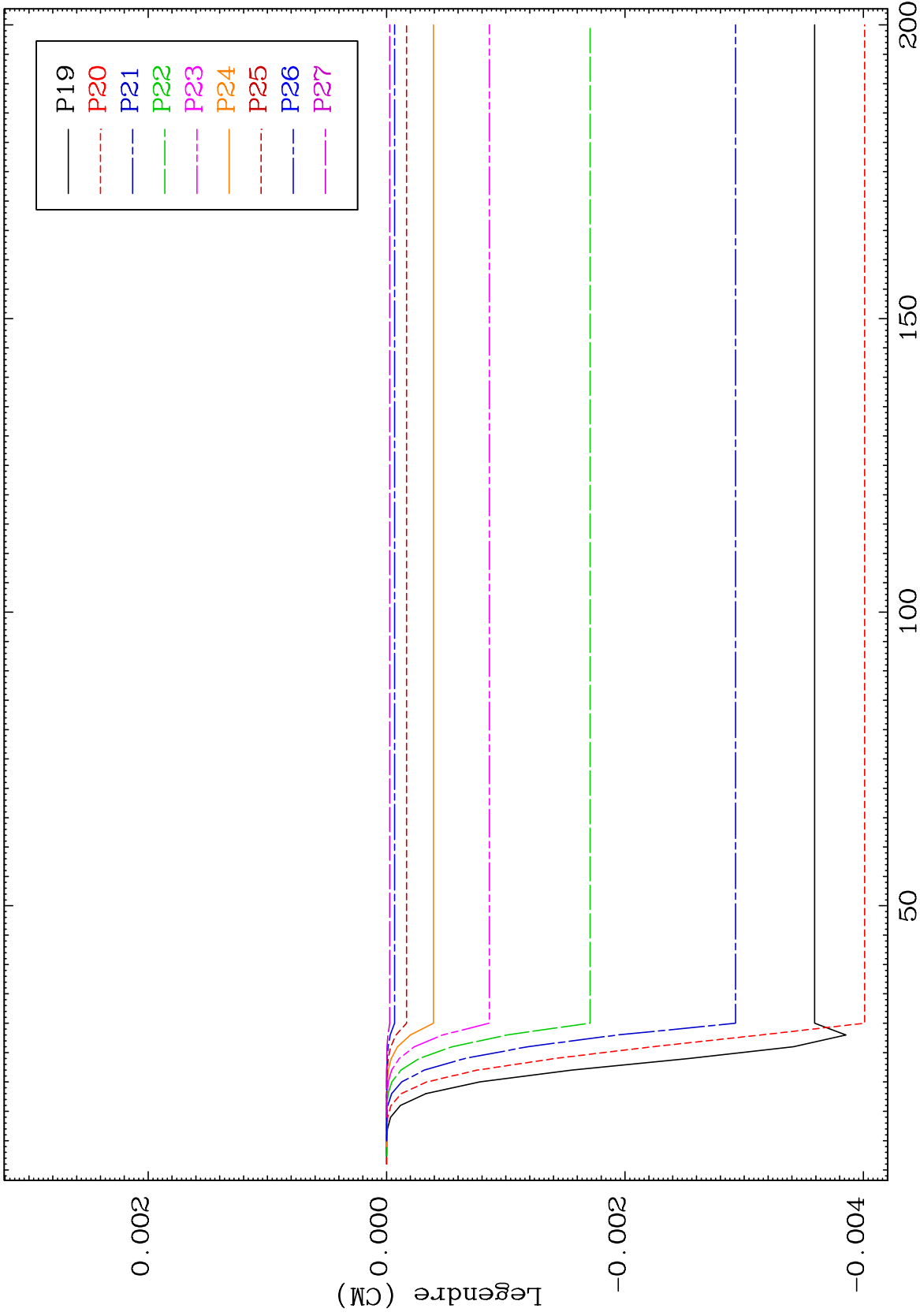


21 61-Pm-154

MAT 6170

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

61-Pm-154



22

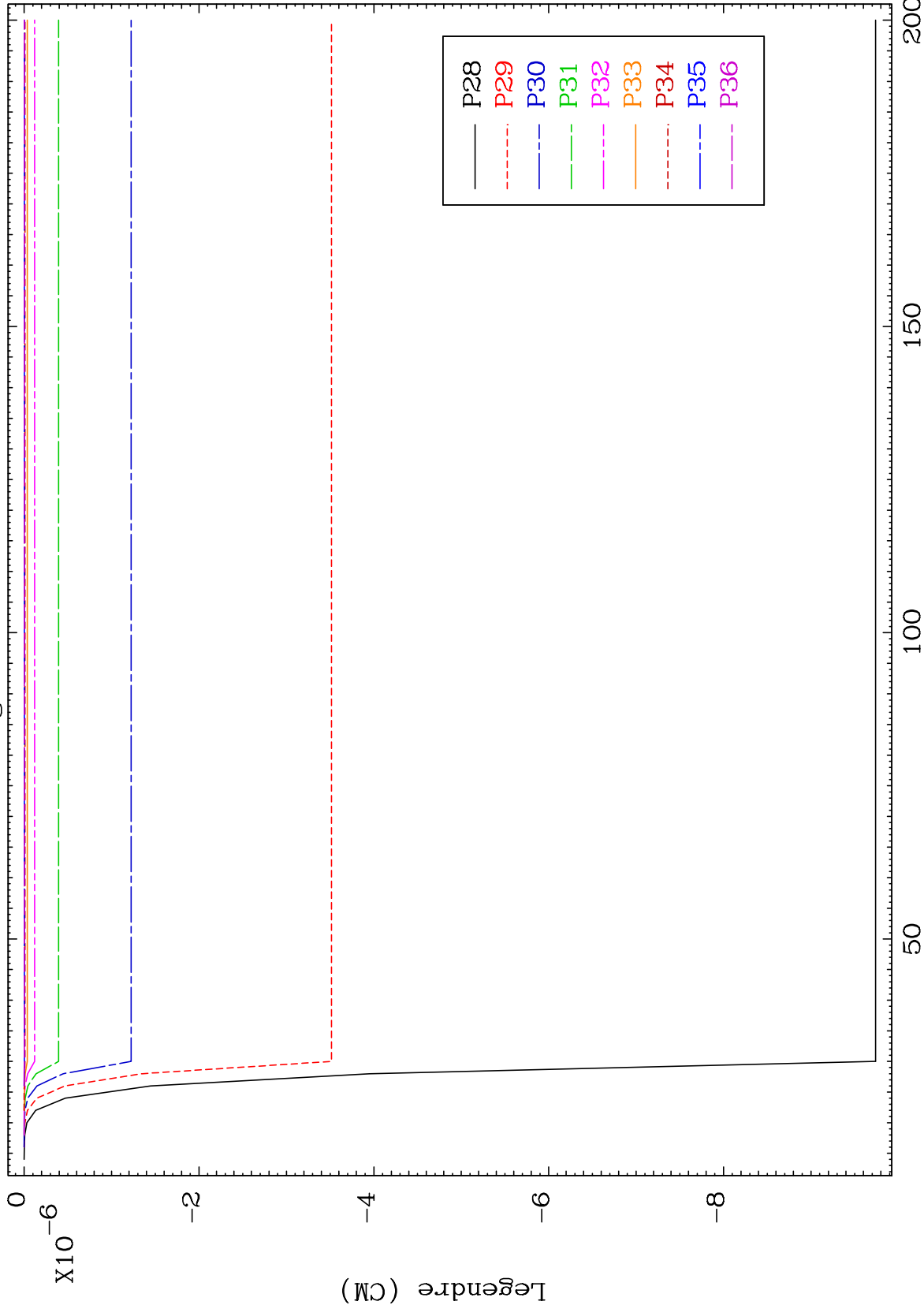
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



61-Pm-154

Incident Energy (MeV)

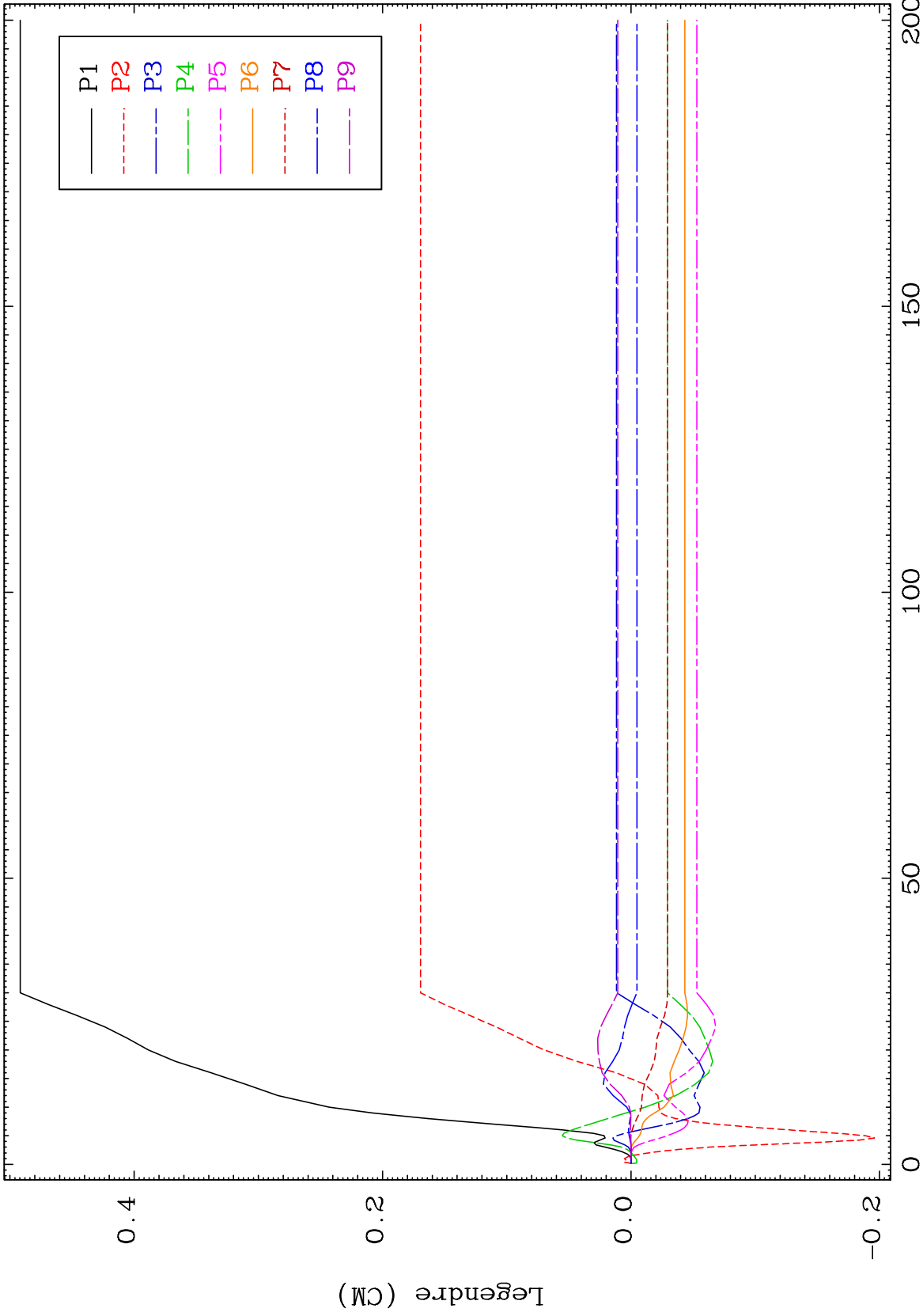
23



MAT 6170

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

61-Pm-154



24

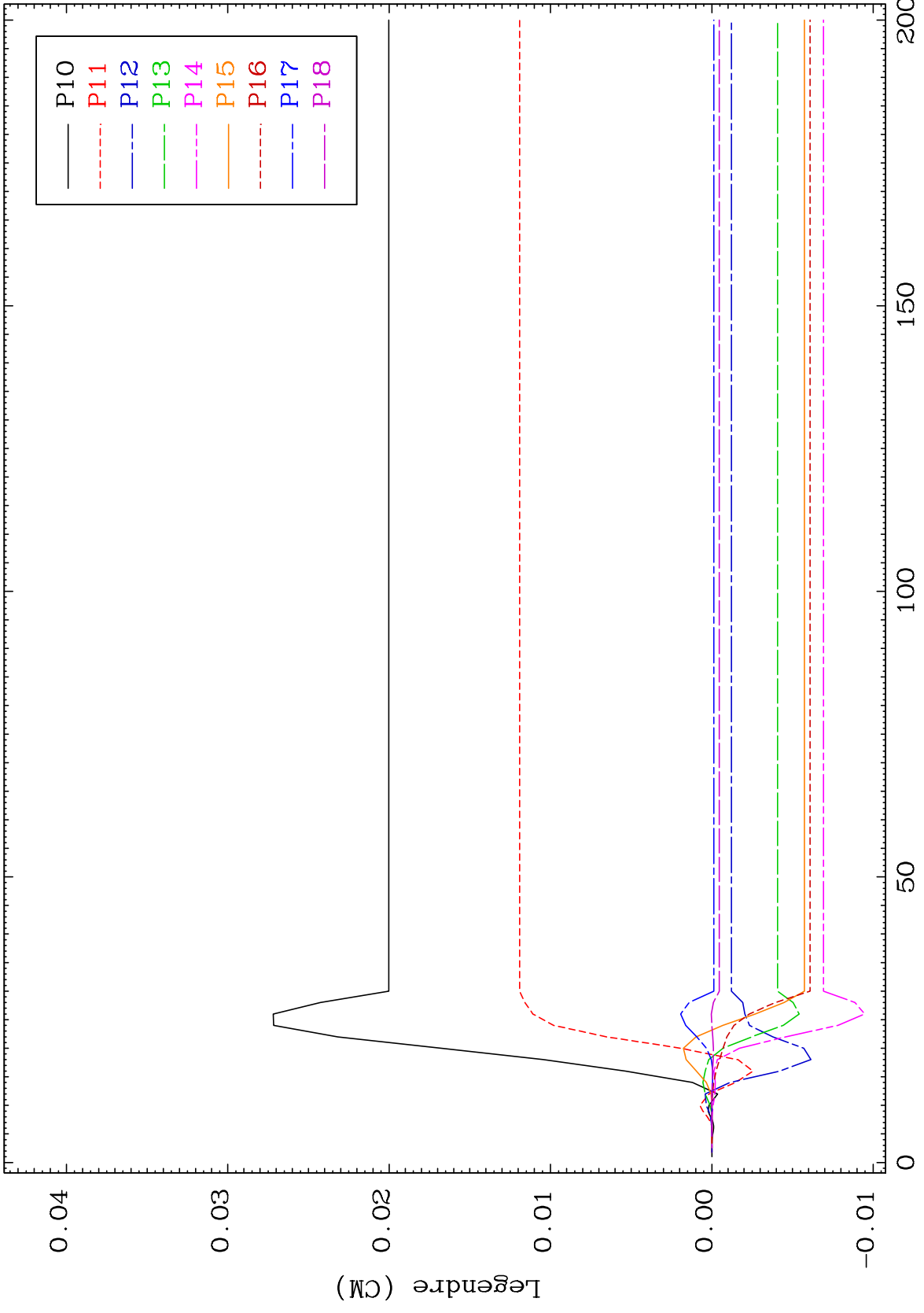
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



25

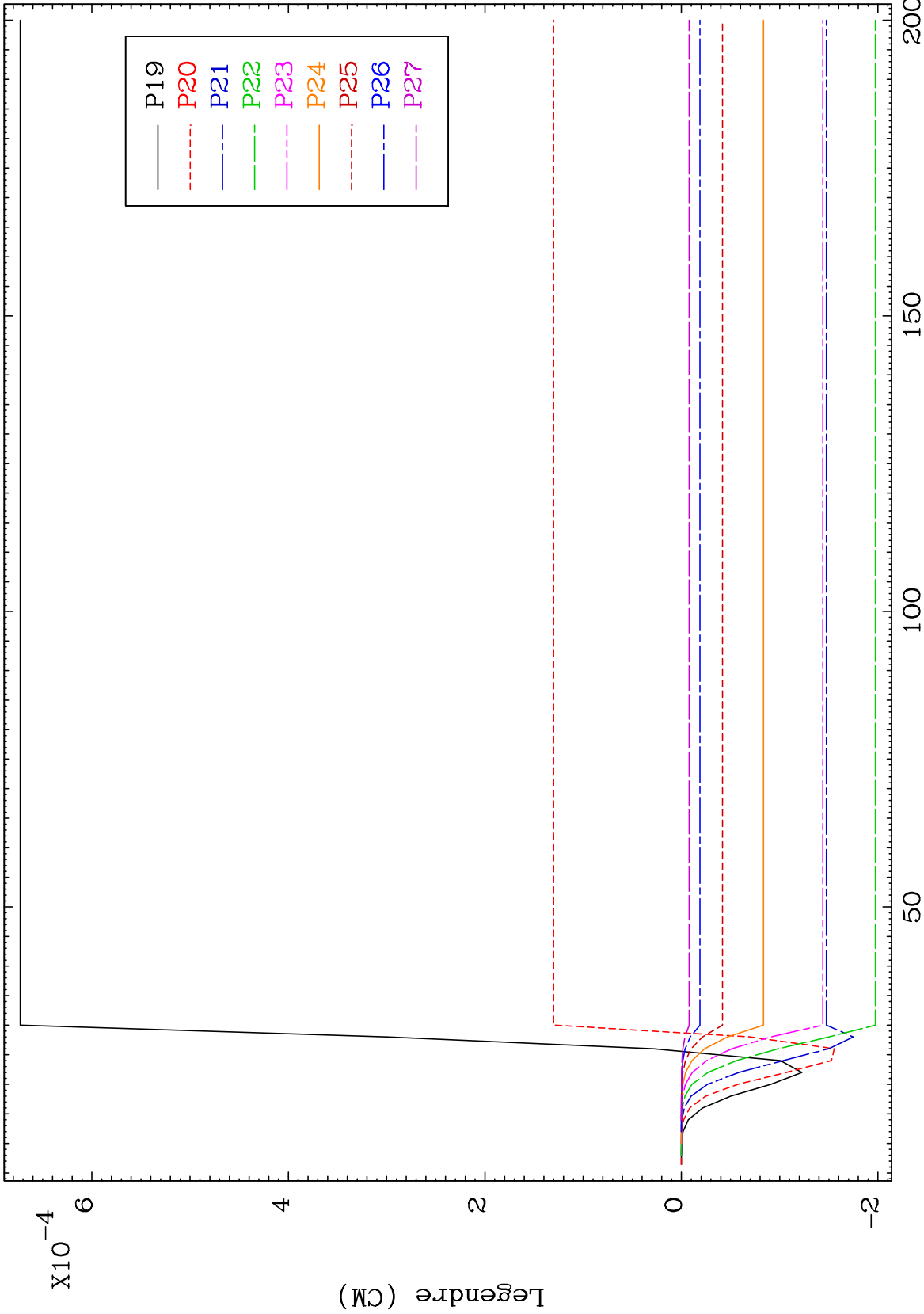
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



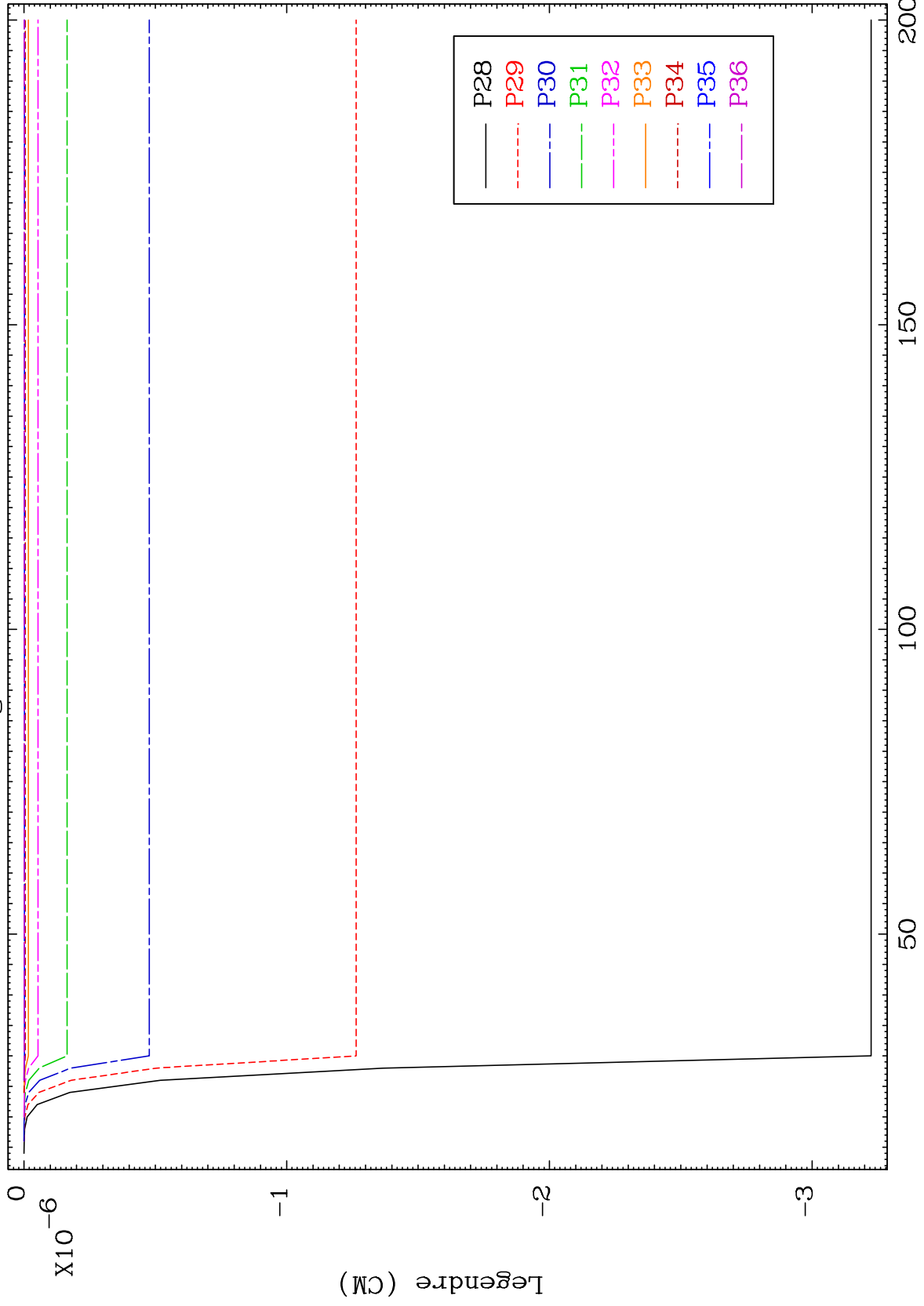
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61-Pm-154

MAT 6170

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

61-Pm-154



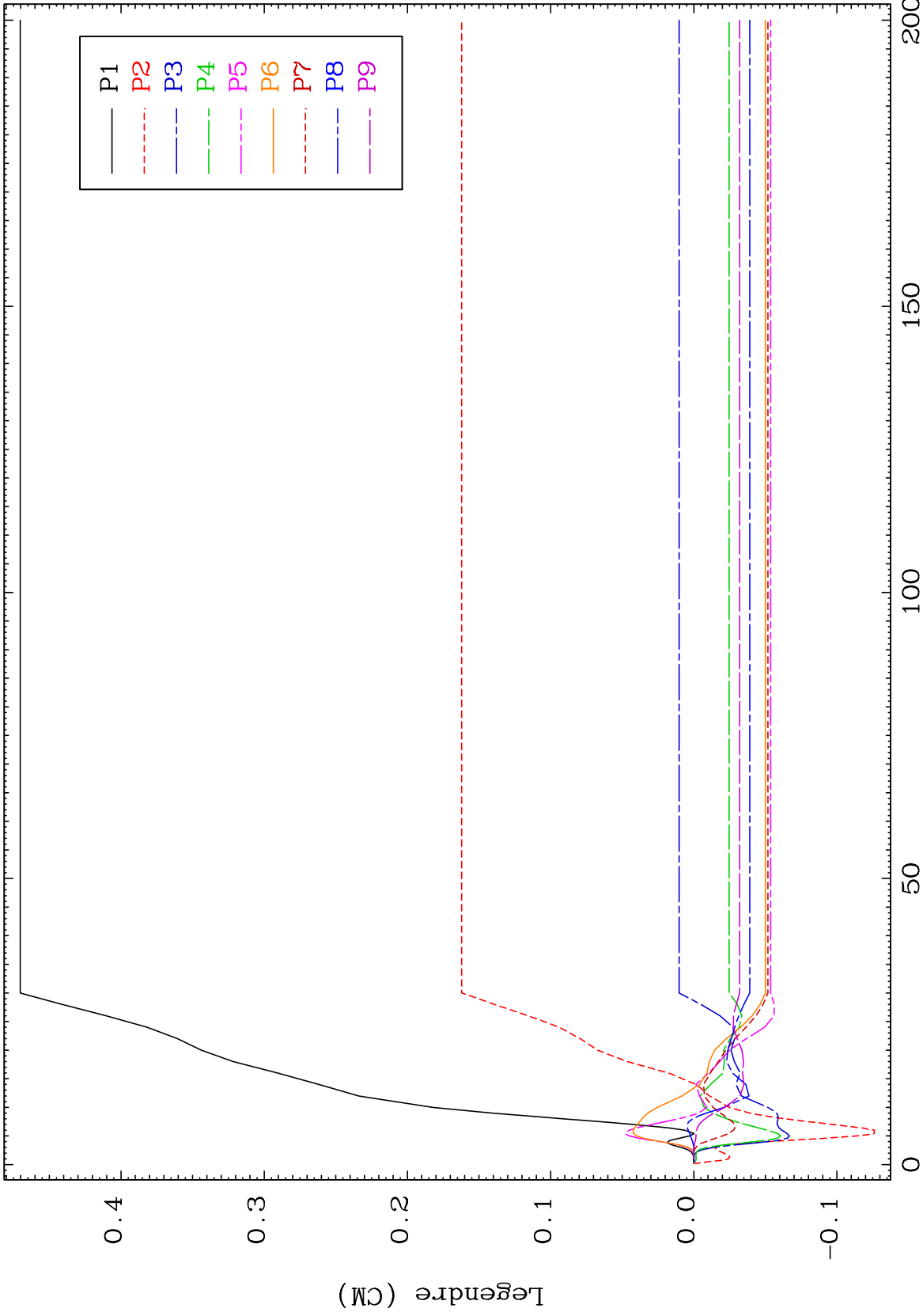
27

61-Pm-154

MAT 6170

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

61-Pm-154



28

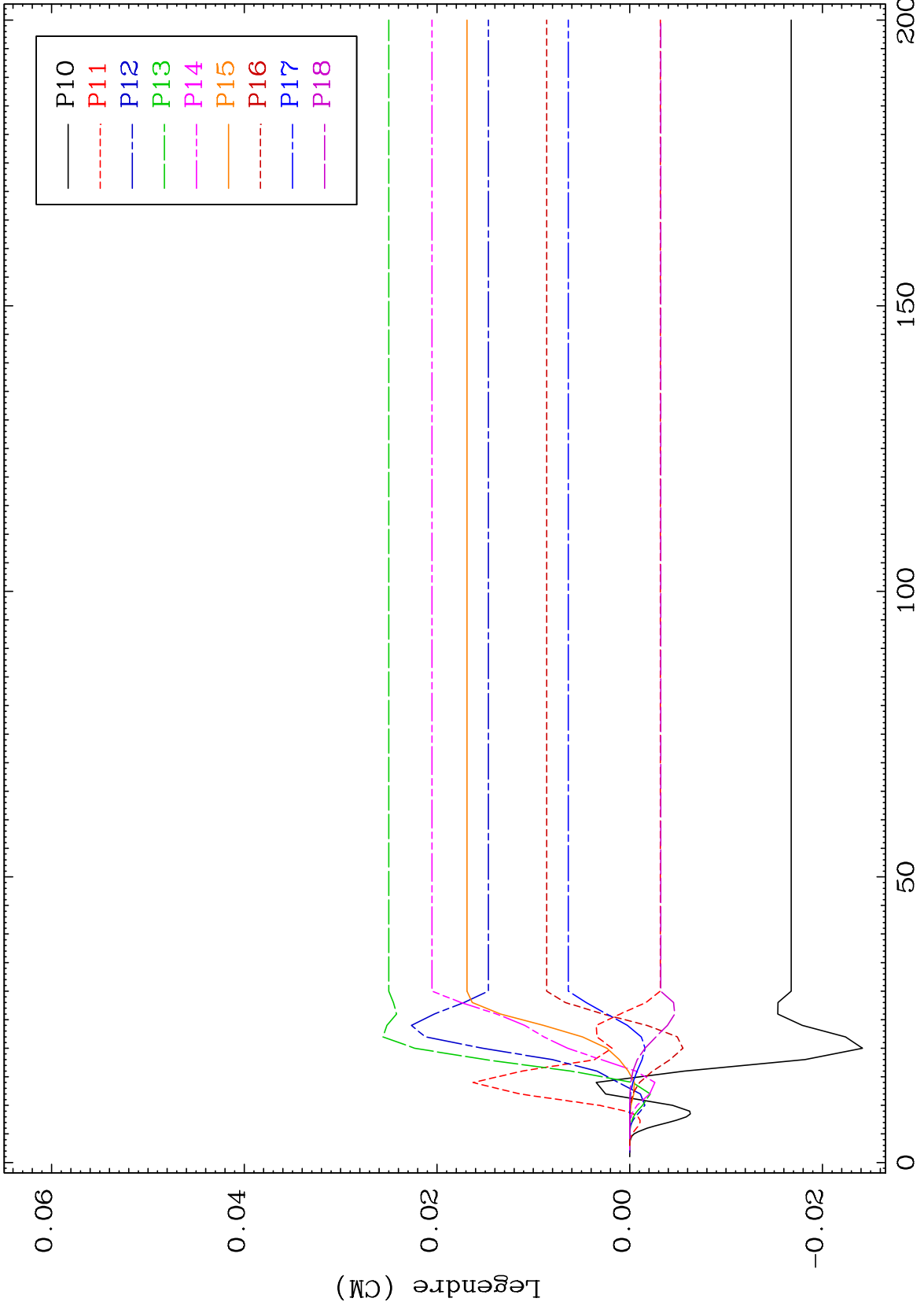
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



29

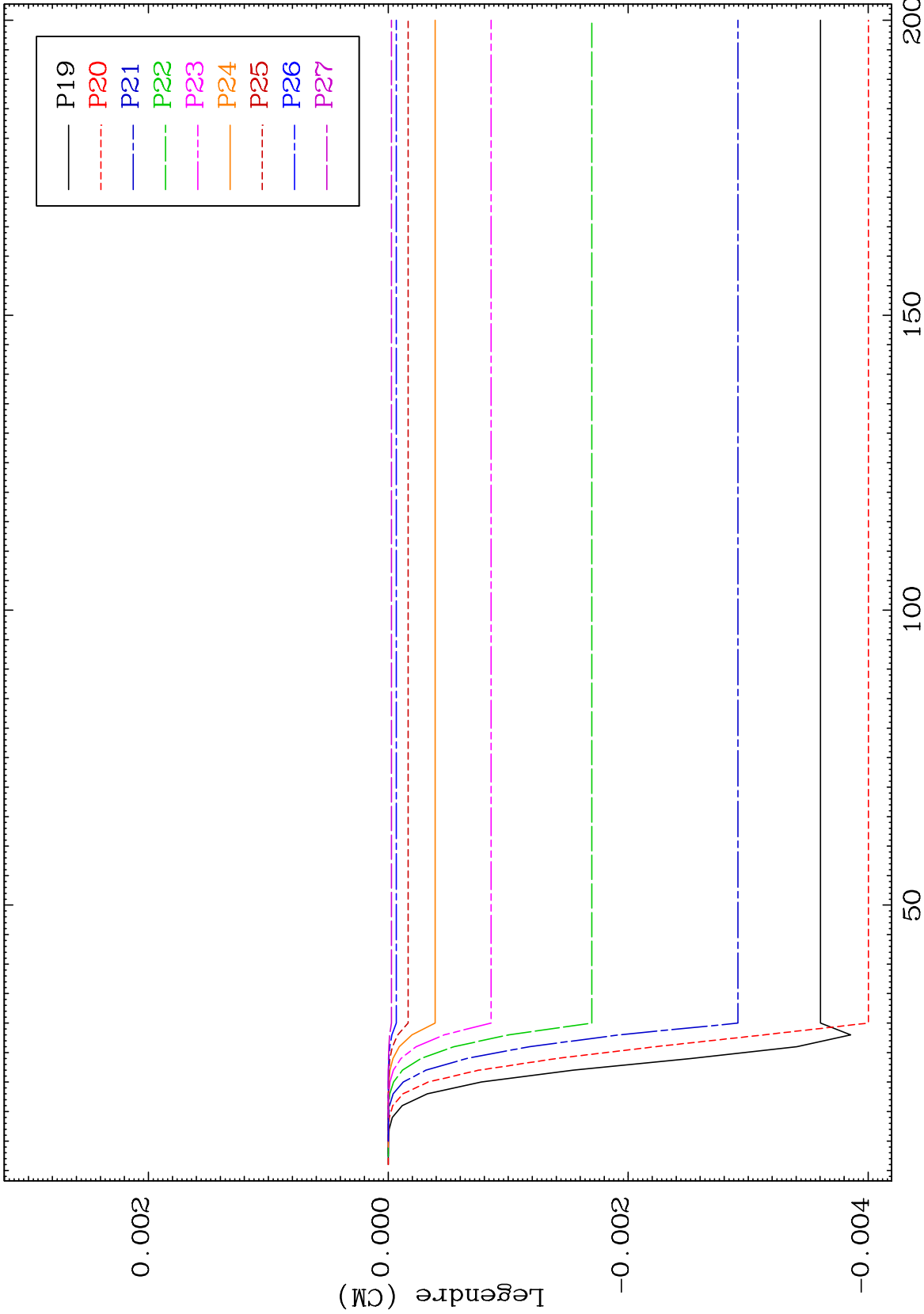
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



30

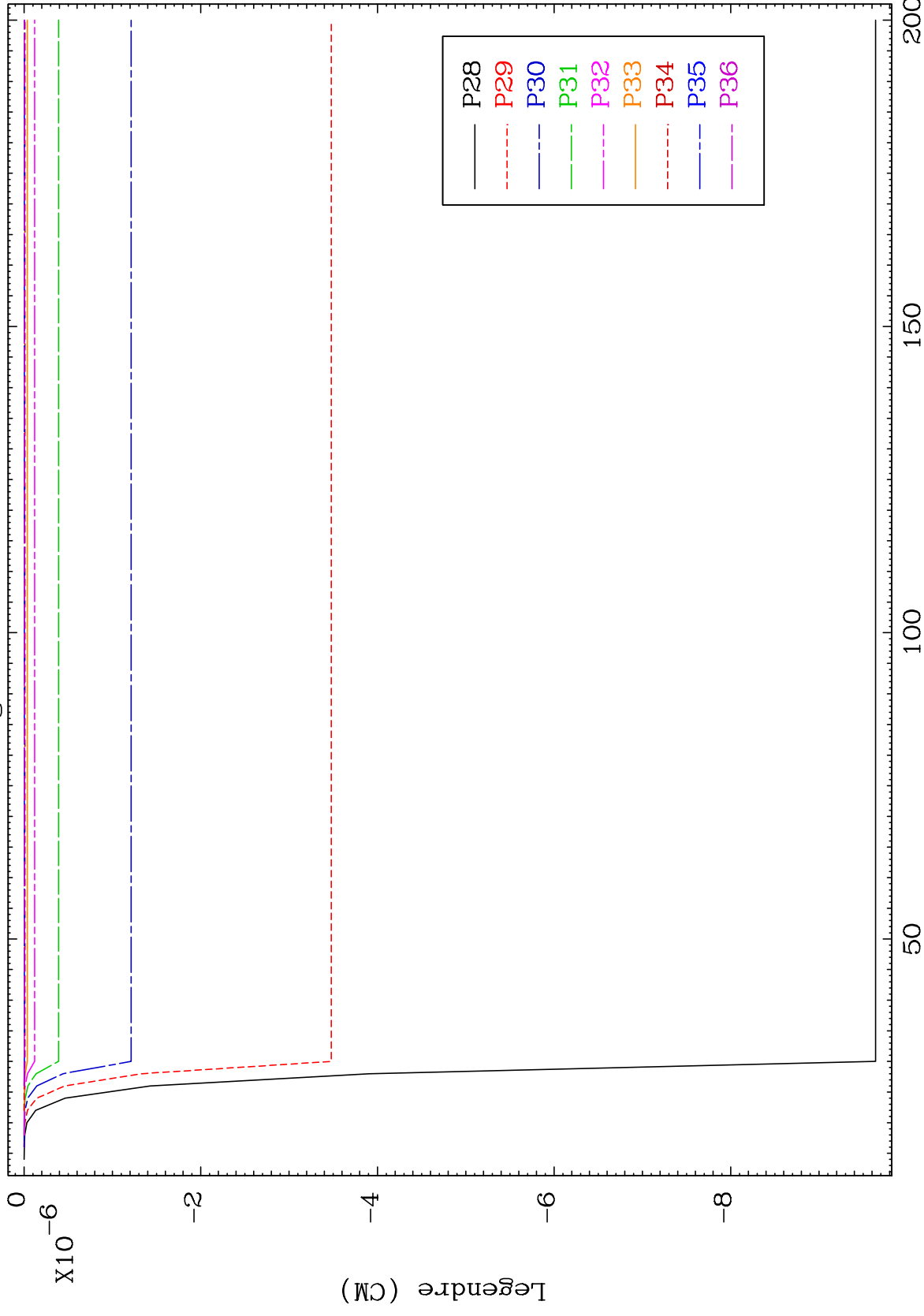
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



61-Pm-154

Incident Energy (MeV)

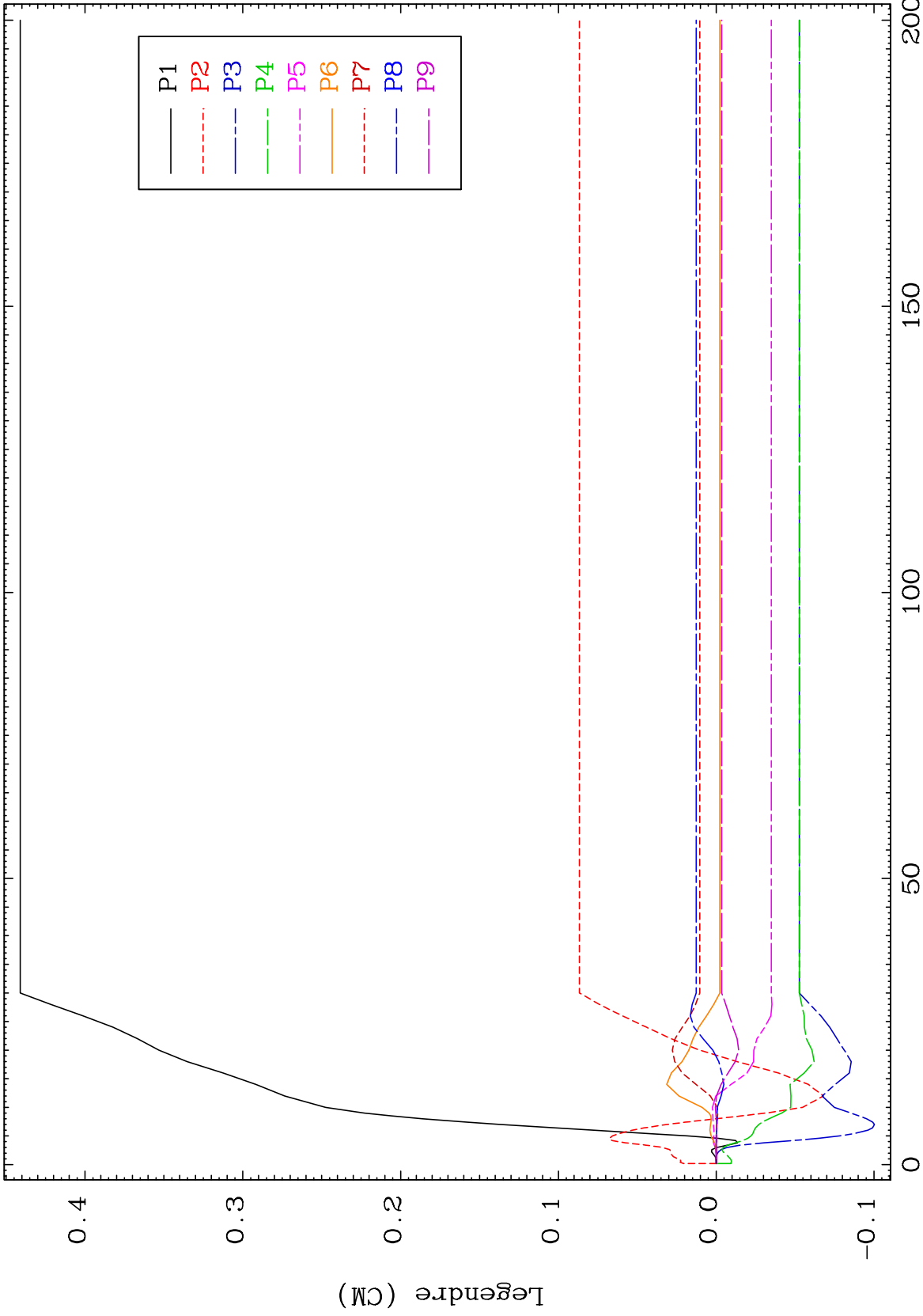
31



MAT 6170

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

61-Pm-154



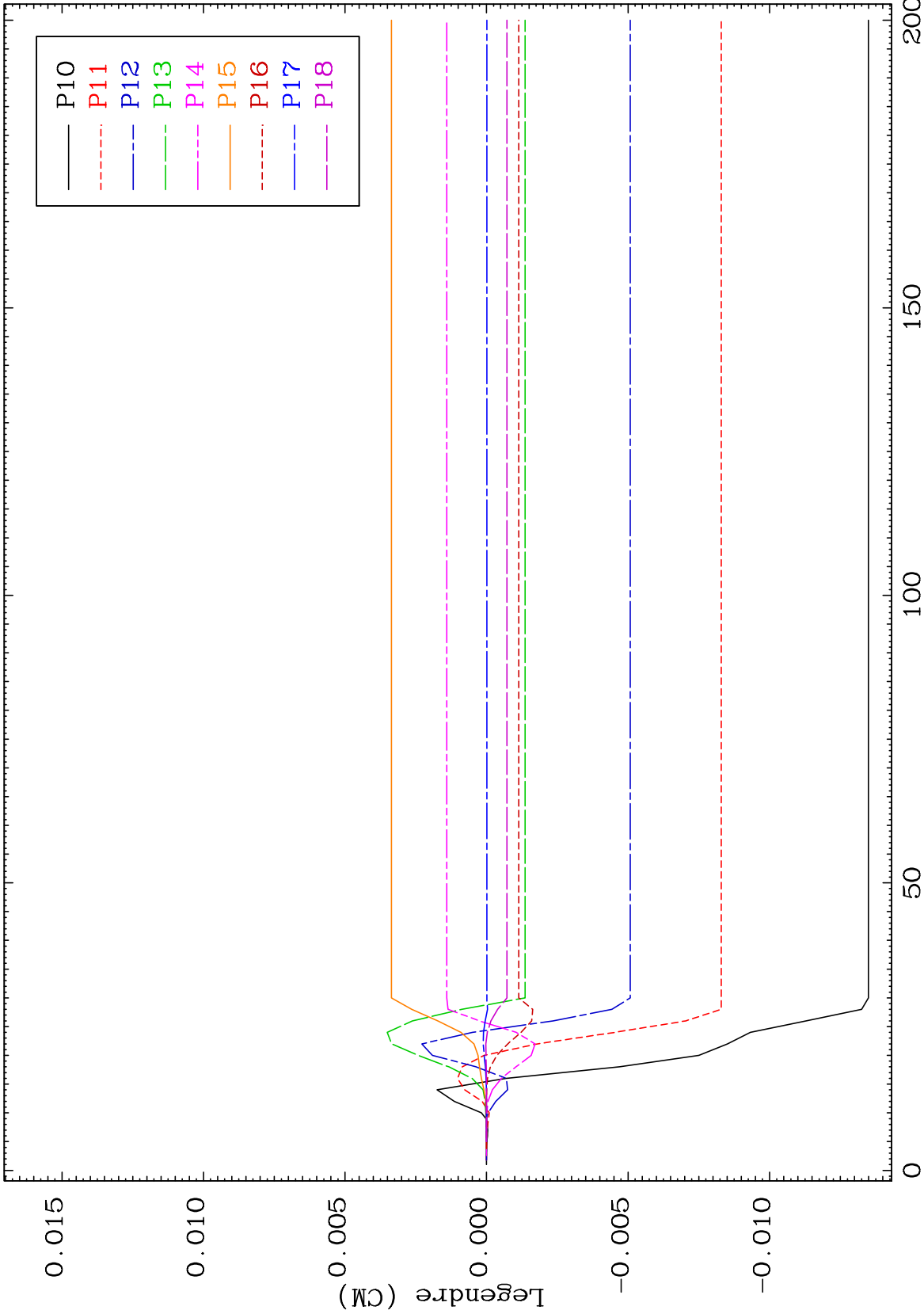
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61-Pm-154

MAT 6170

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

61-Pm-154



33

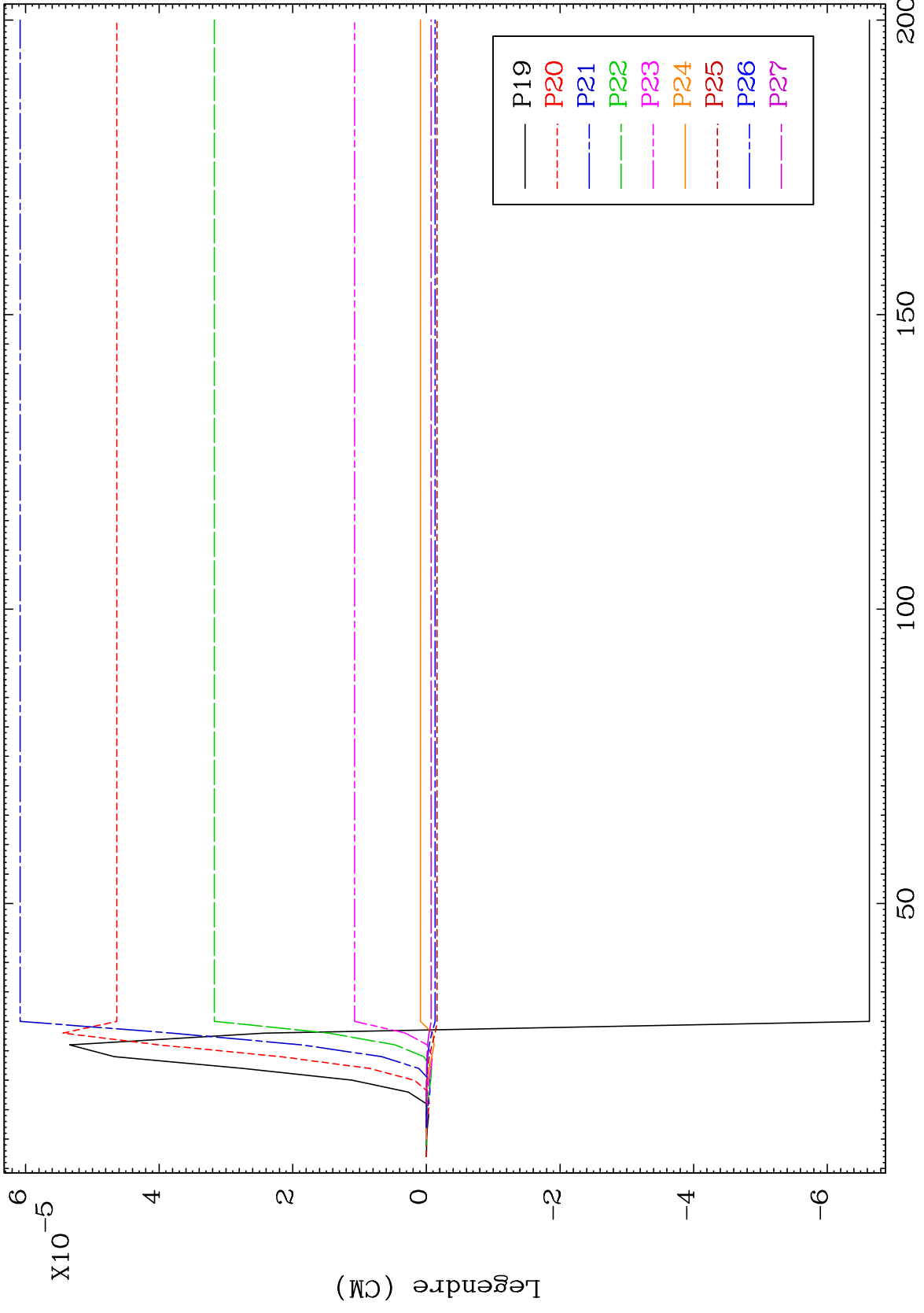
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



34

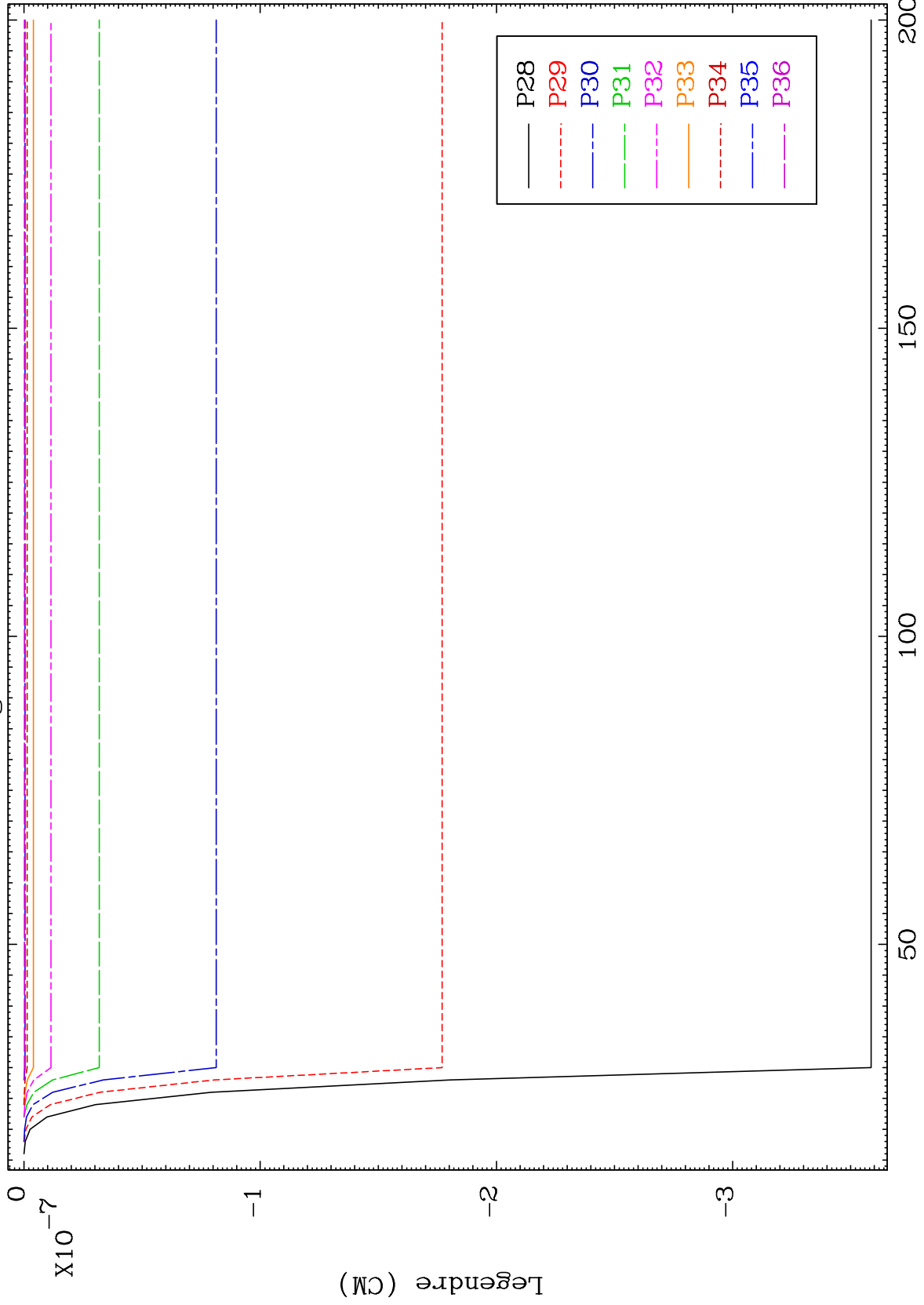
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



61-Pm-154

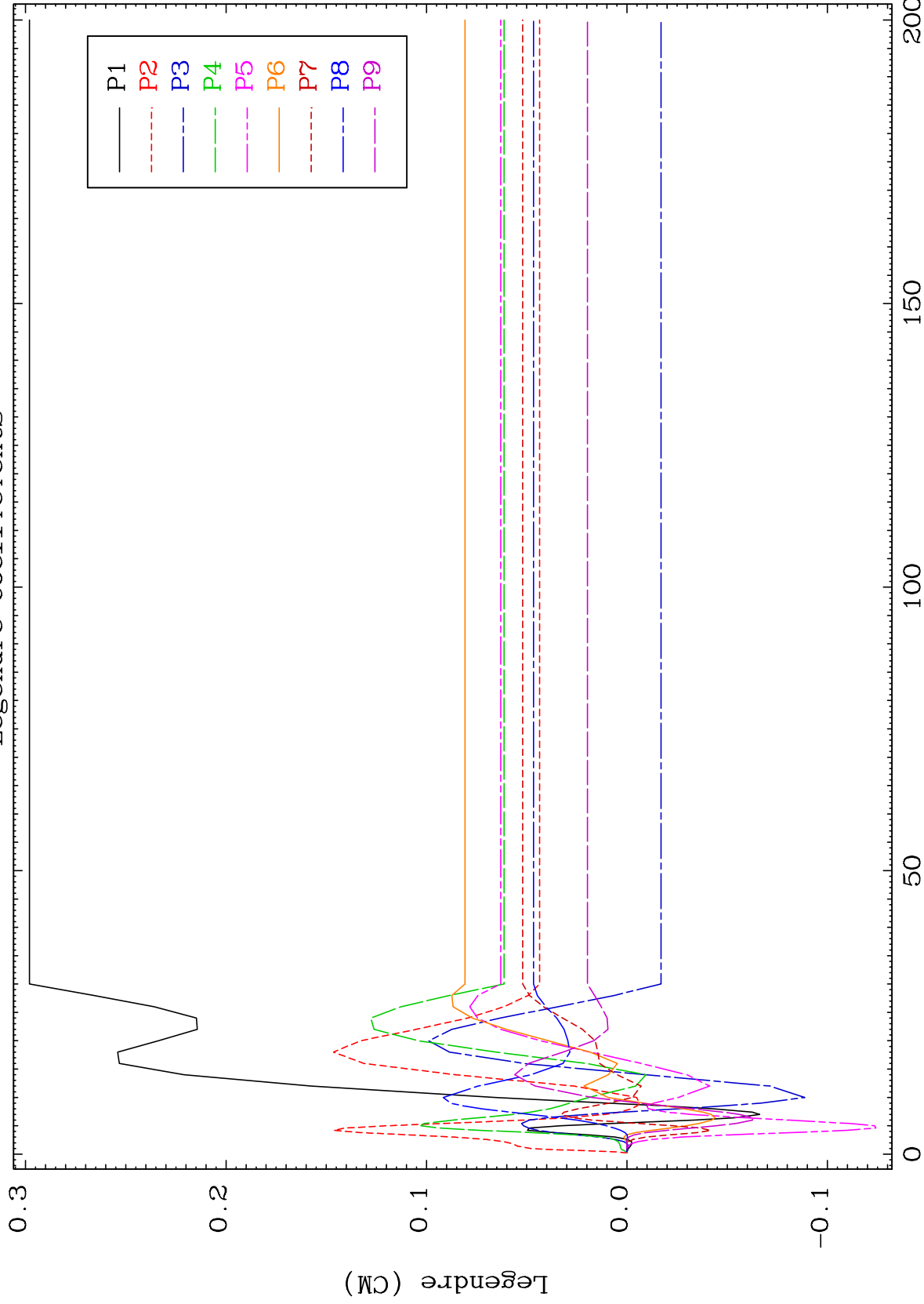
Incident Energy (MeV)

35

MAT 6170

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

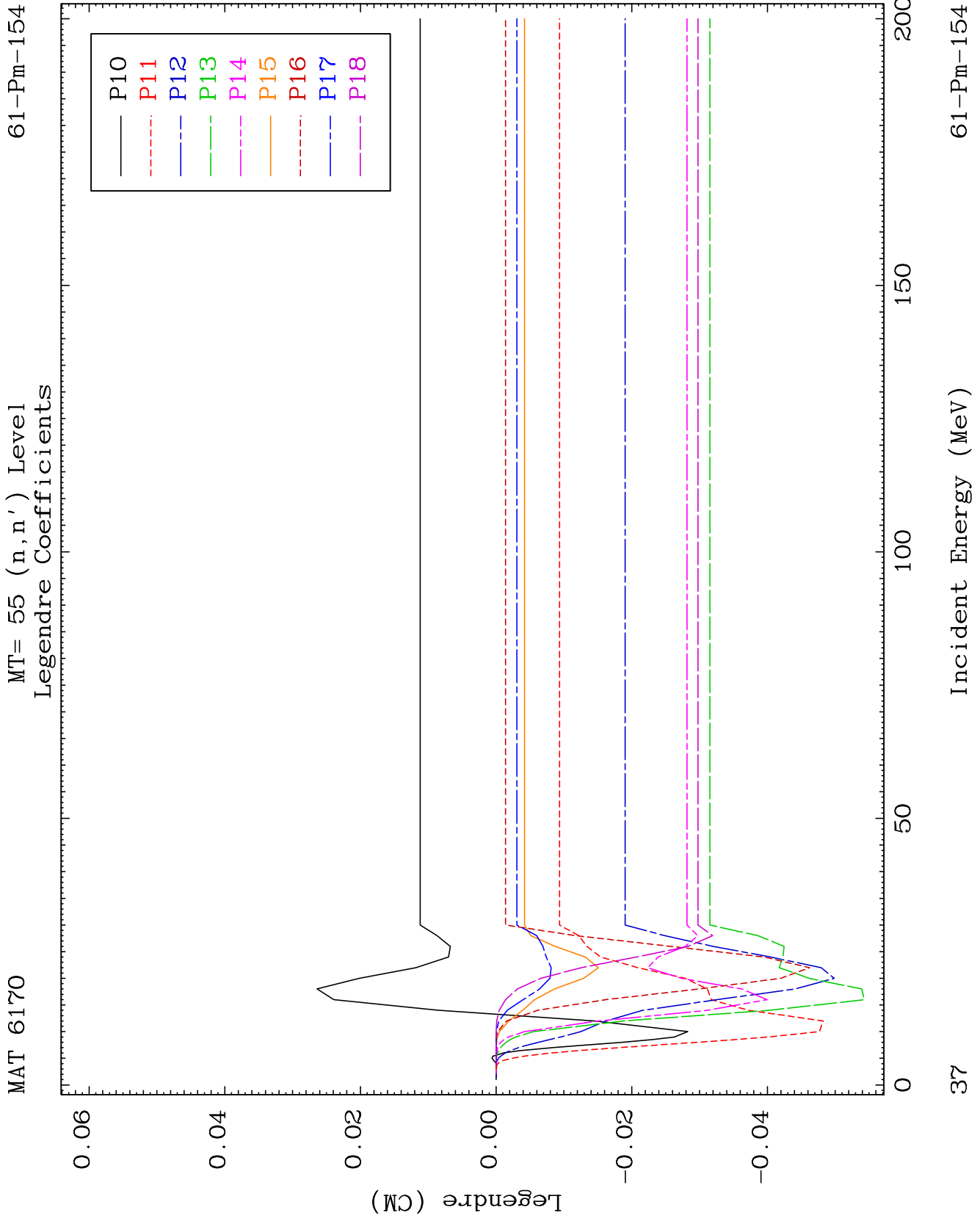
61-Pm-154



36

Incident Energy (MeV)

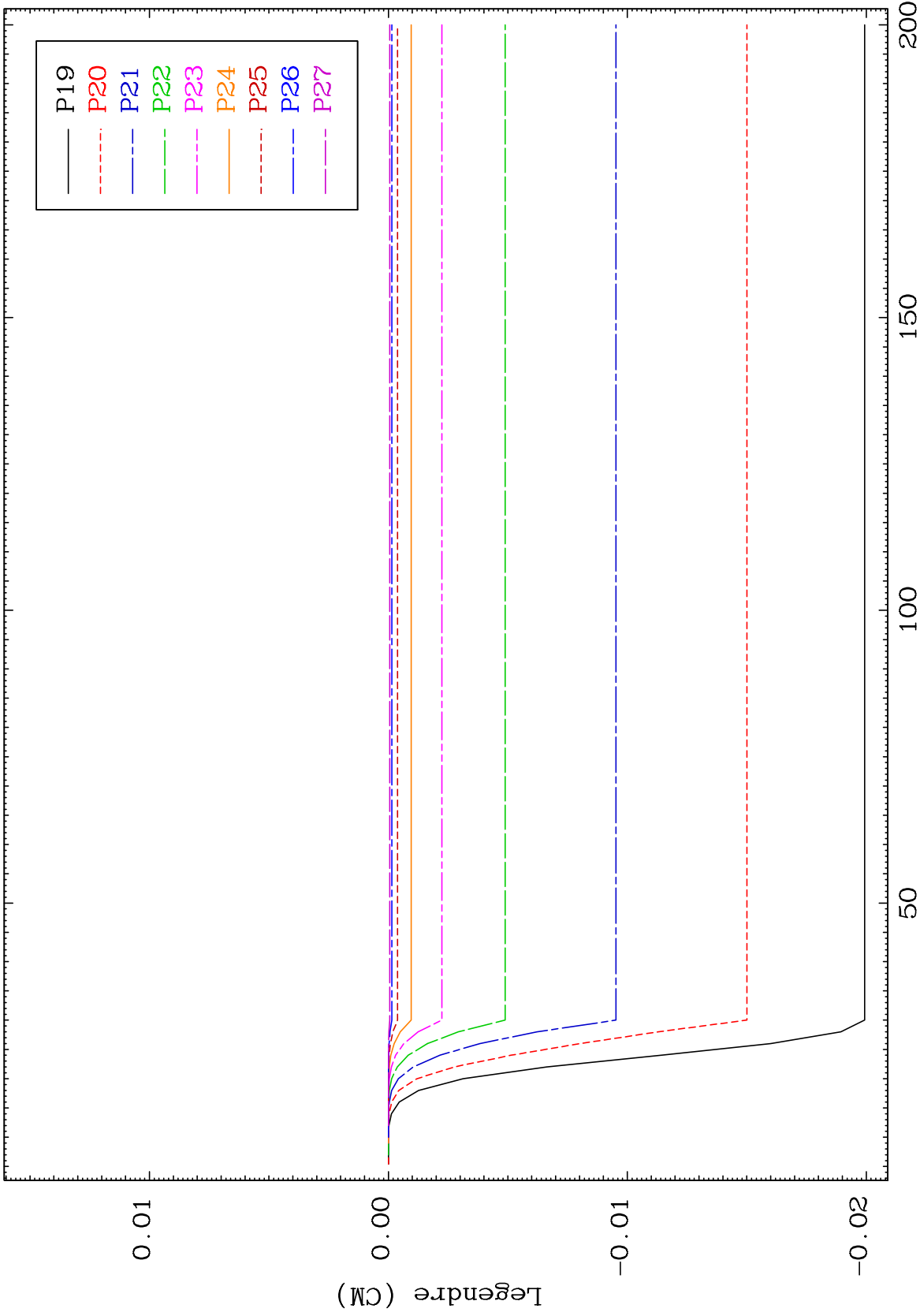
61-Pm-154



MAT 6170

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

61-Pm-154



38

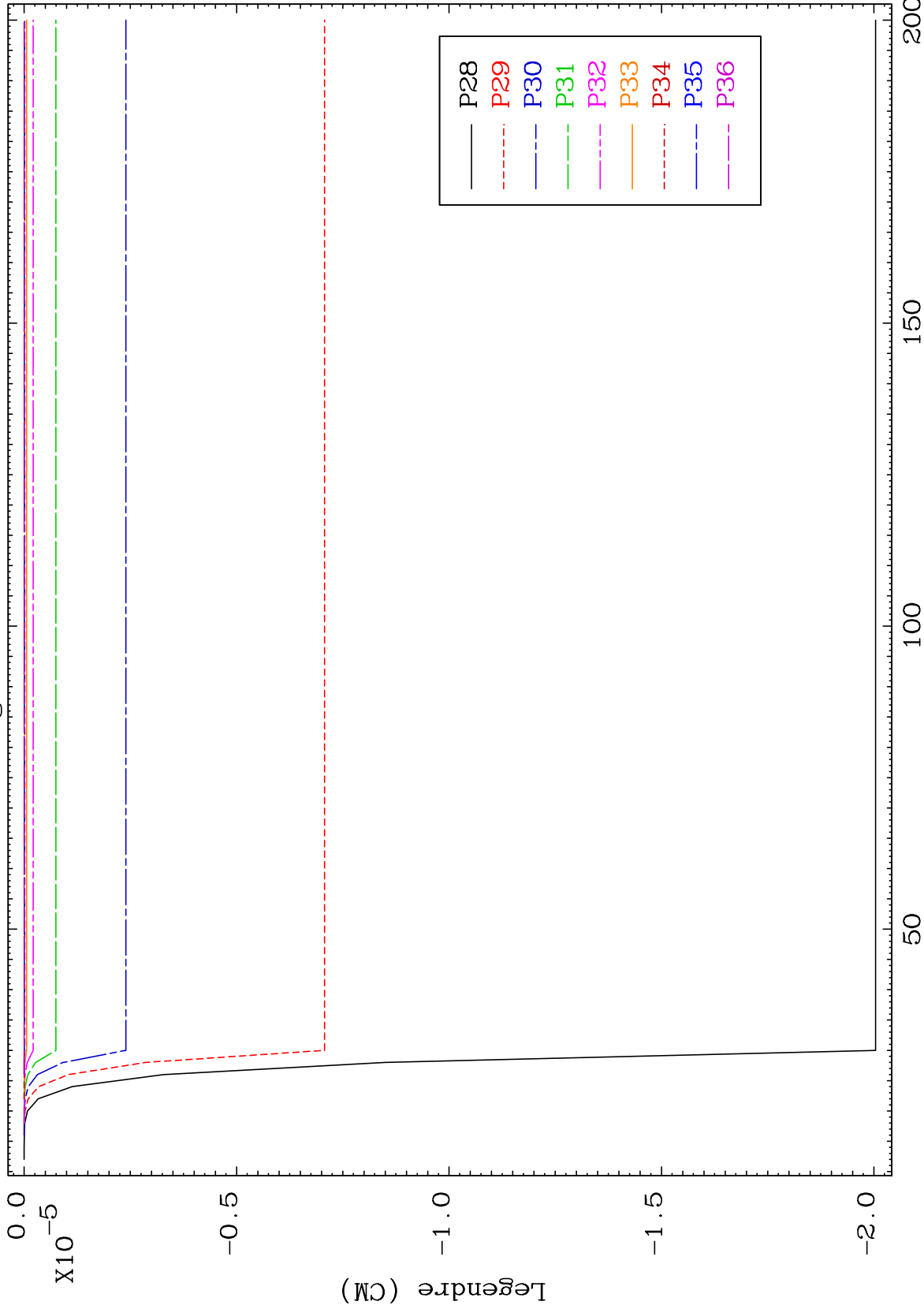
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



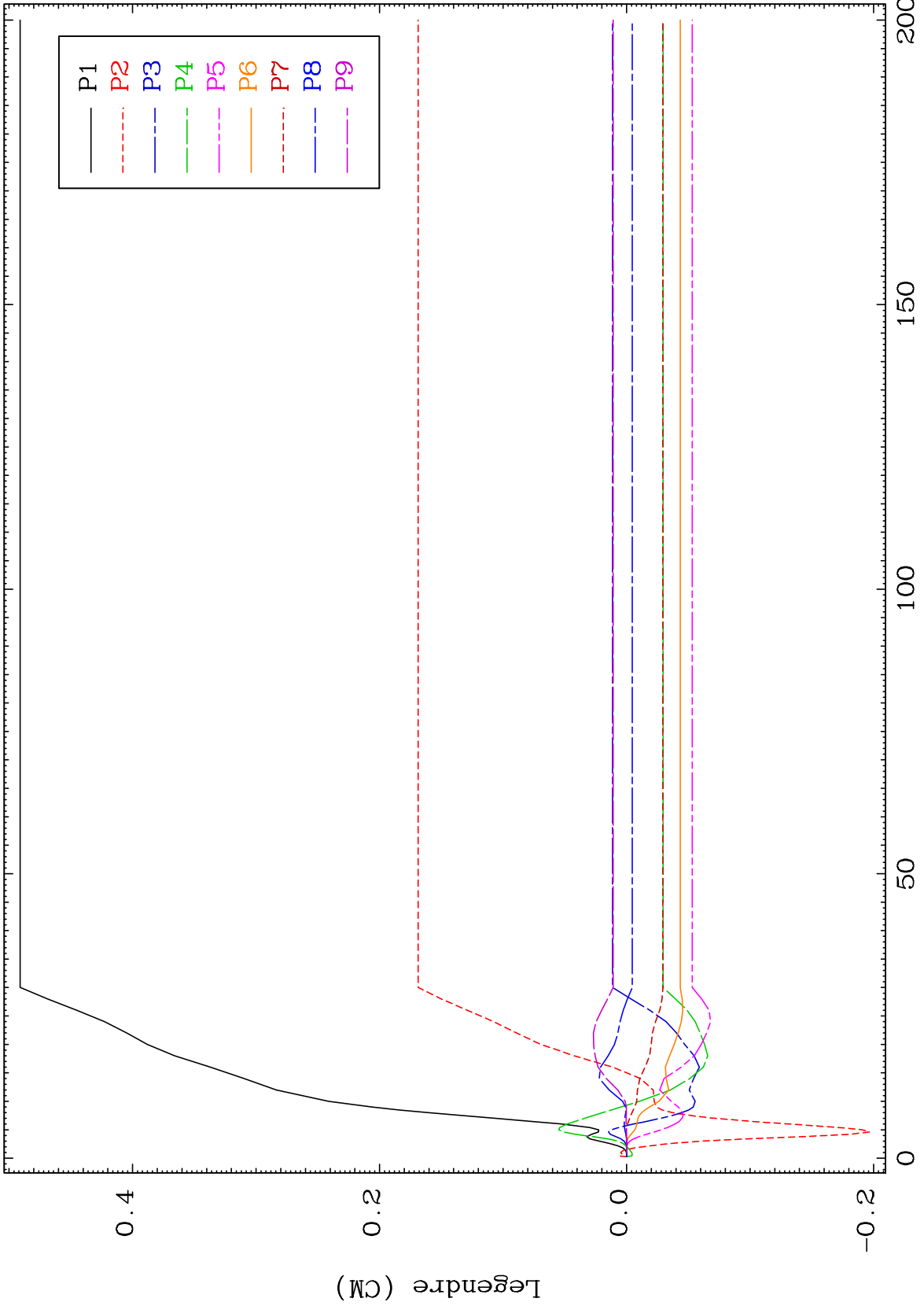
61-Pm-154

Incident Energy (MeV)

39



MAT 6170 MT= 56 (n,n') Level Legendre Coefficients 61-Pm-154

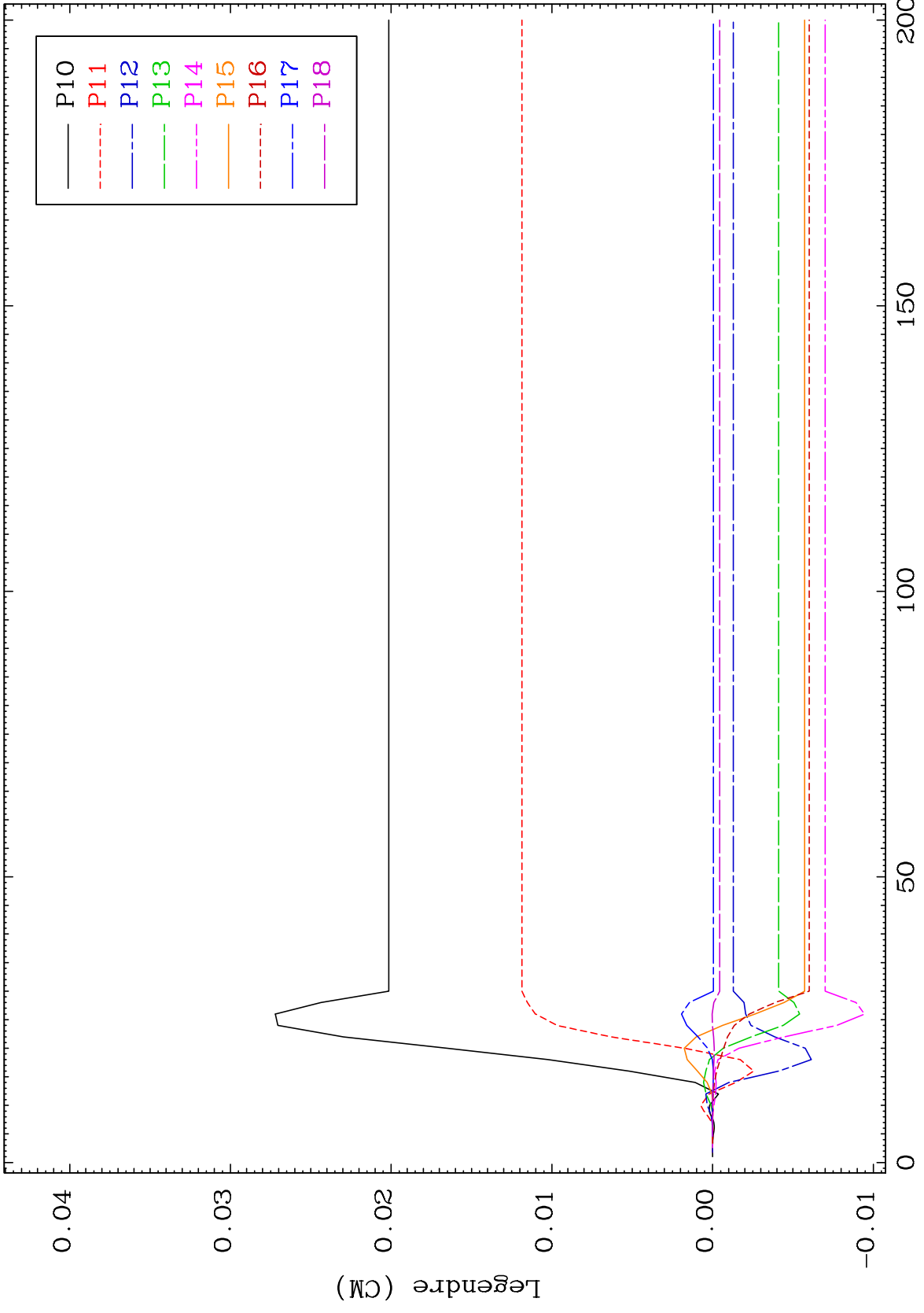


61-Pm-154

MAT 6170

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

61-Pm-154



41

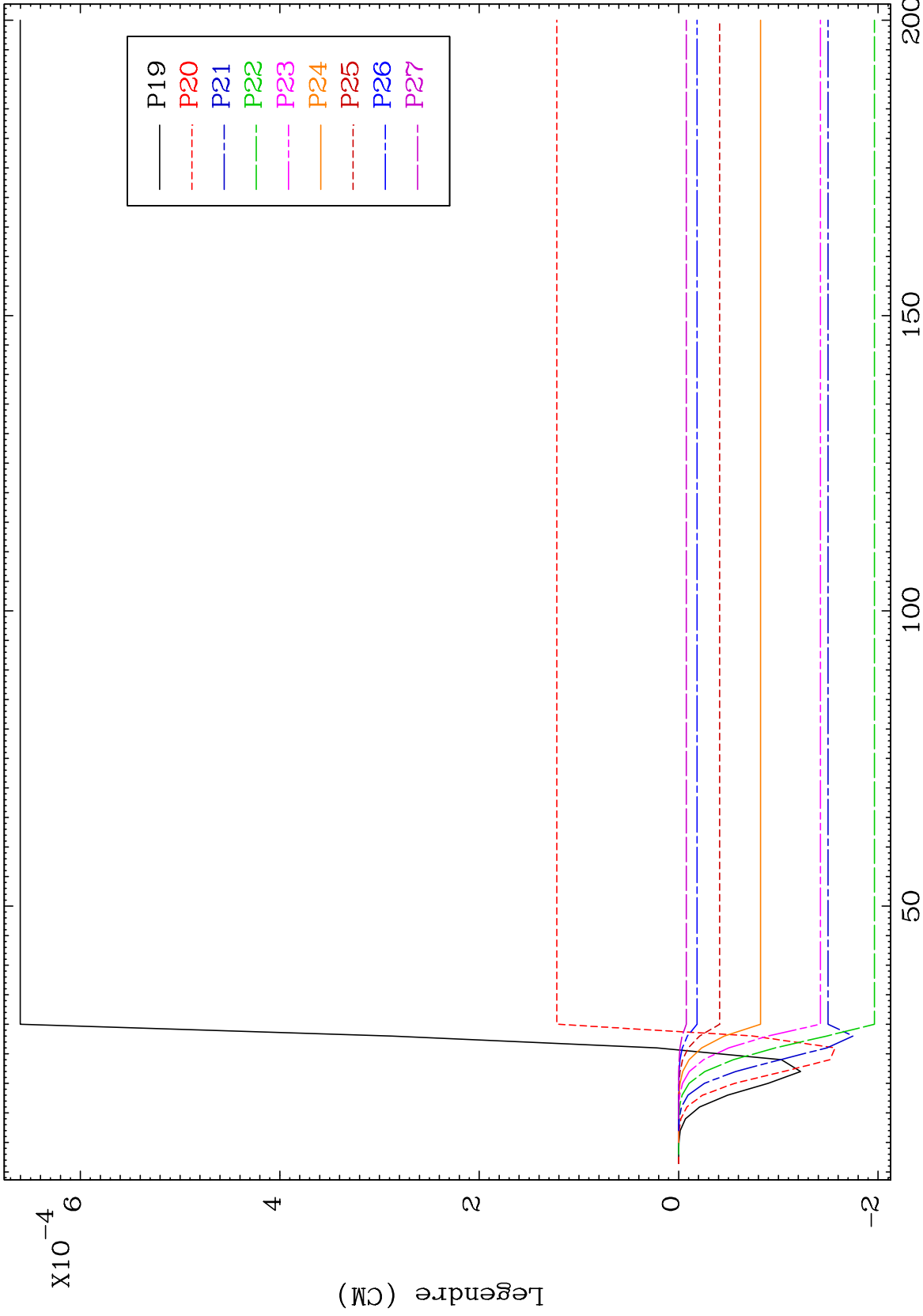
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



42

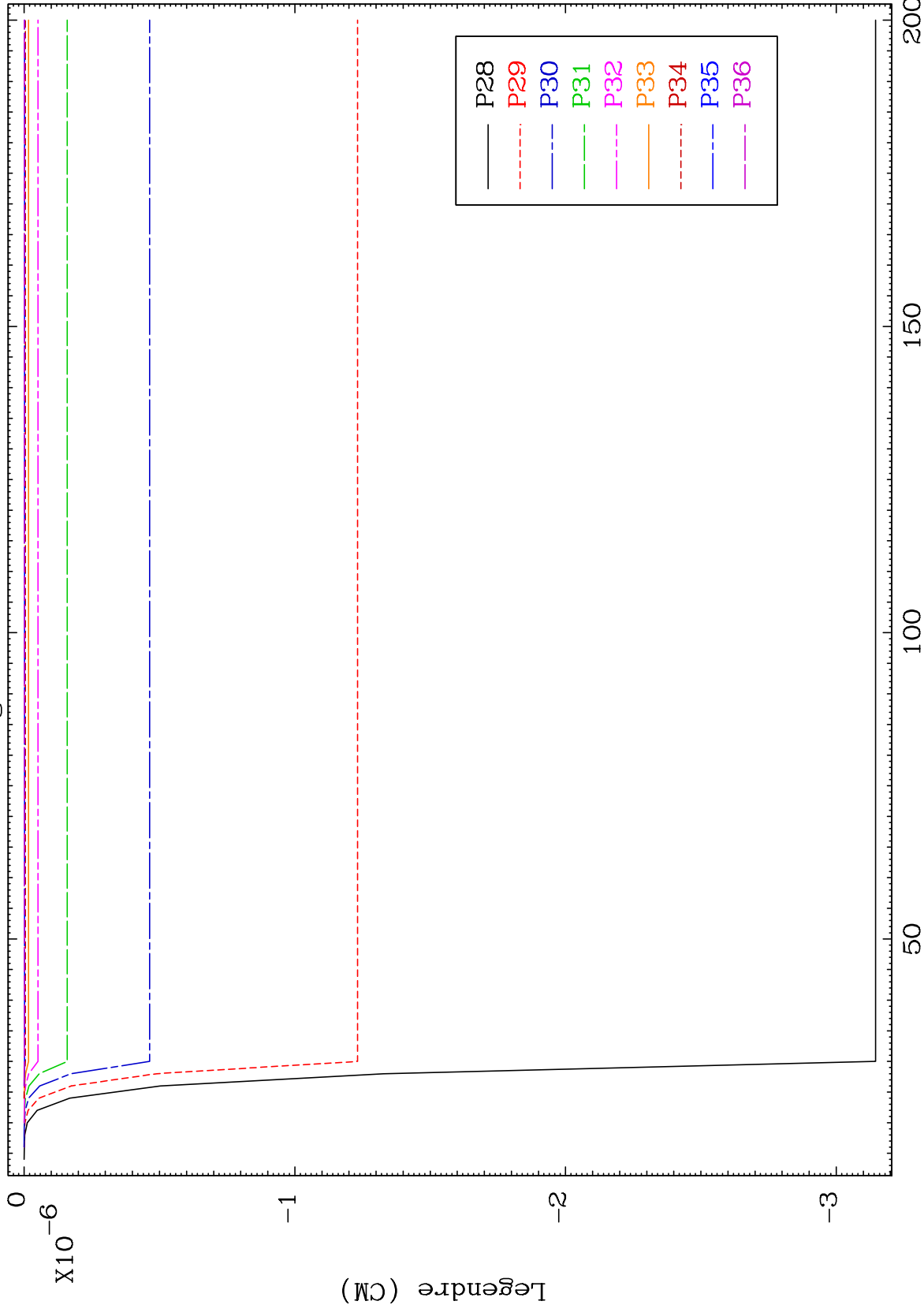
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



61-Pm-154

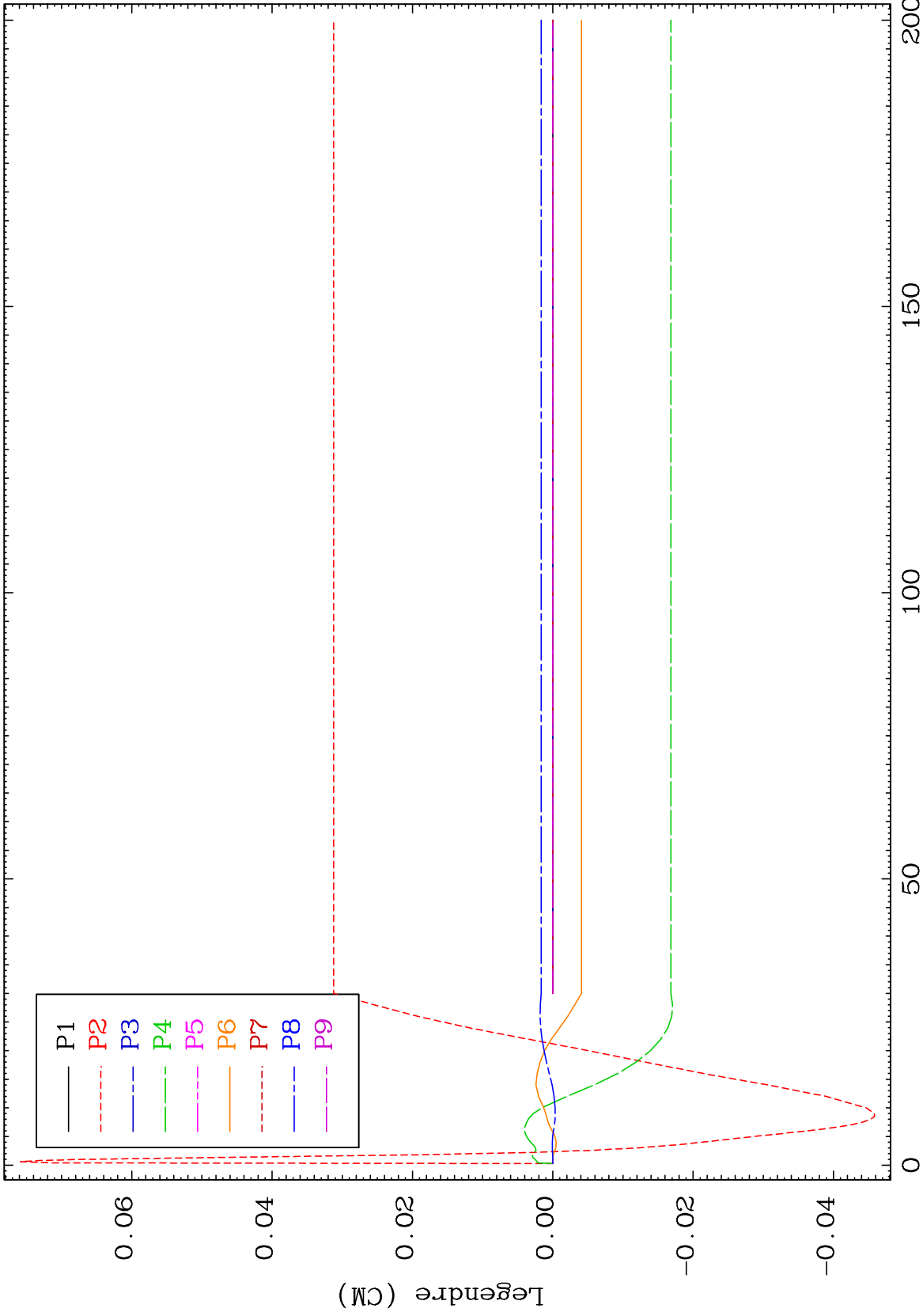
Incident Energy (MeV)

43

MAT 6170

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

61-Pm-154



44

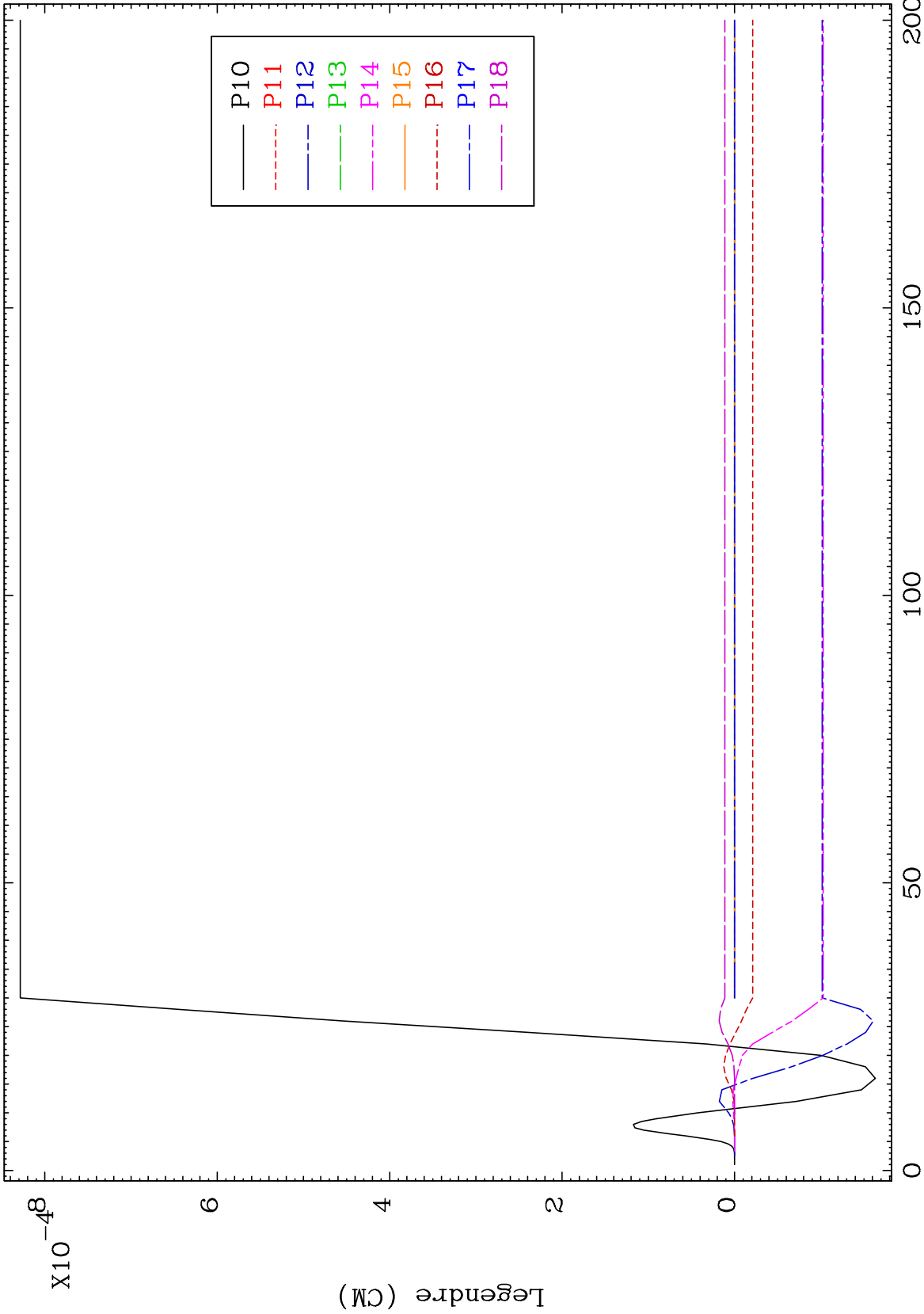
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154

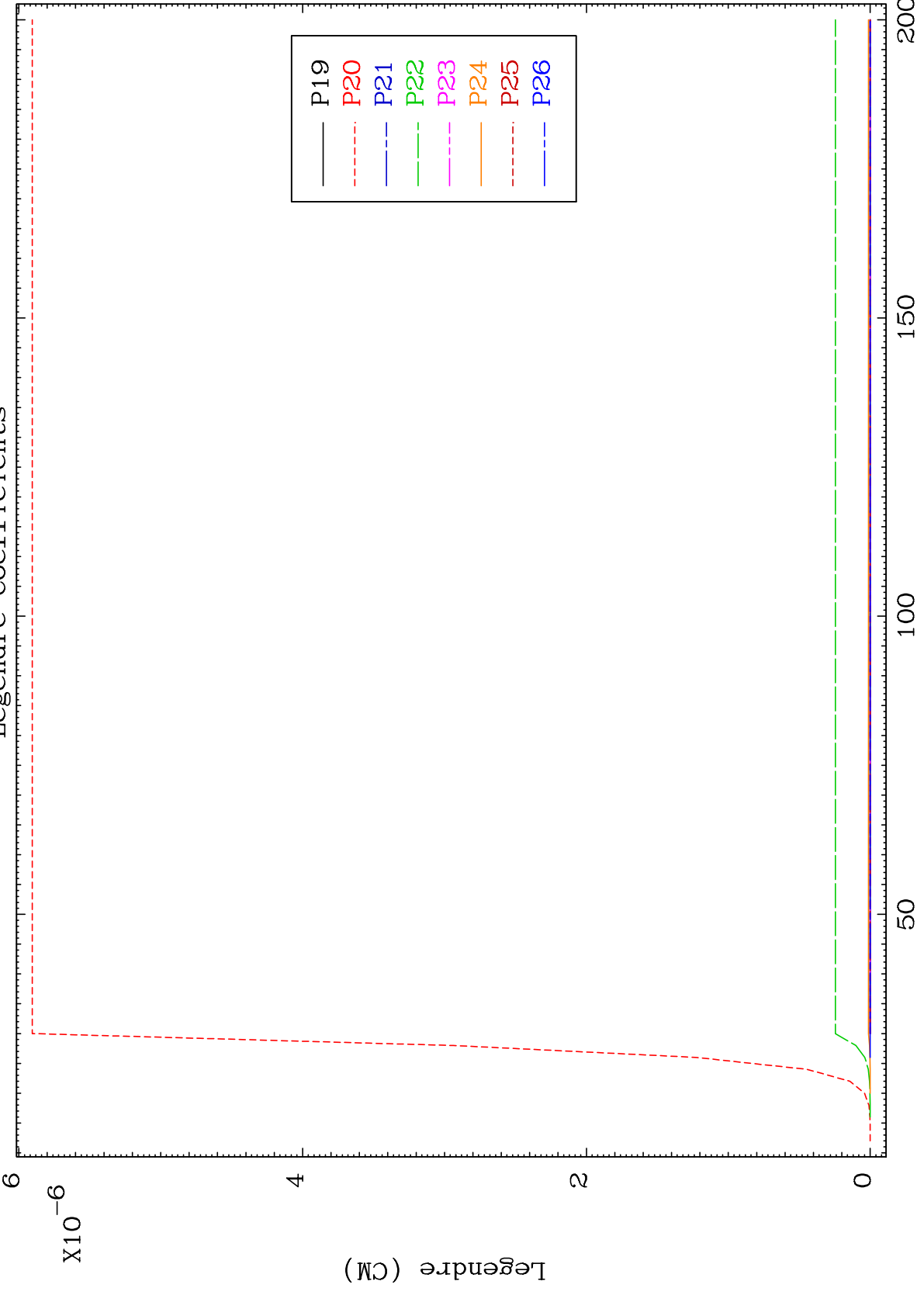


45

Incident Energy (MeV)

61-Pm-154

MAT 6170 MT= 57 (n,n') Level Legendre Coefficients 61-Pm-154

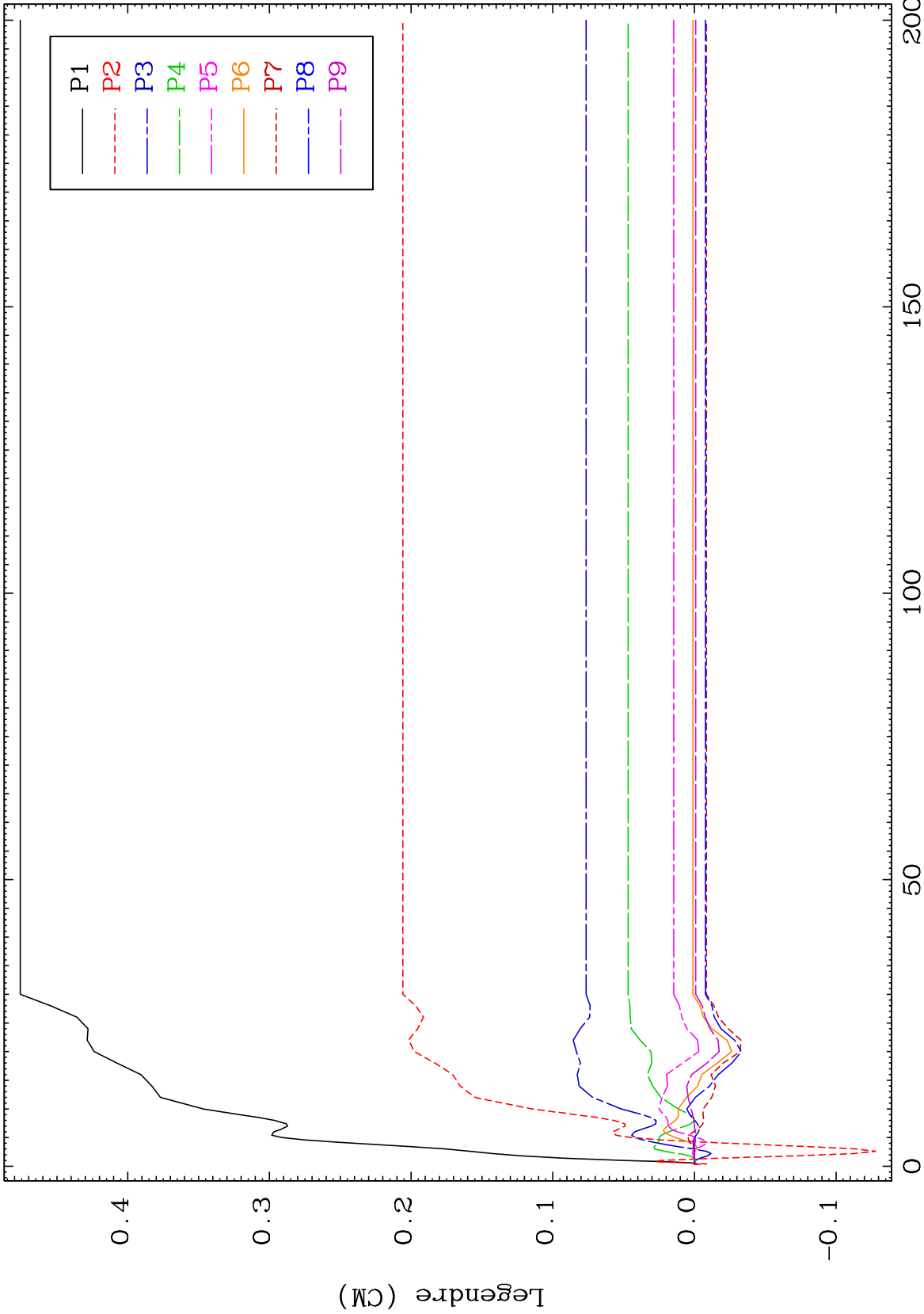


46 50 100 150 200 61-Pm-154

MAT 6170

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

61-Pm-154



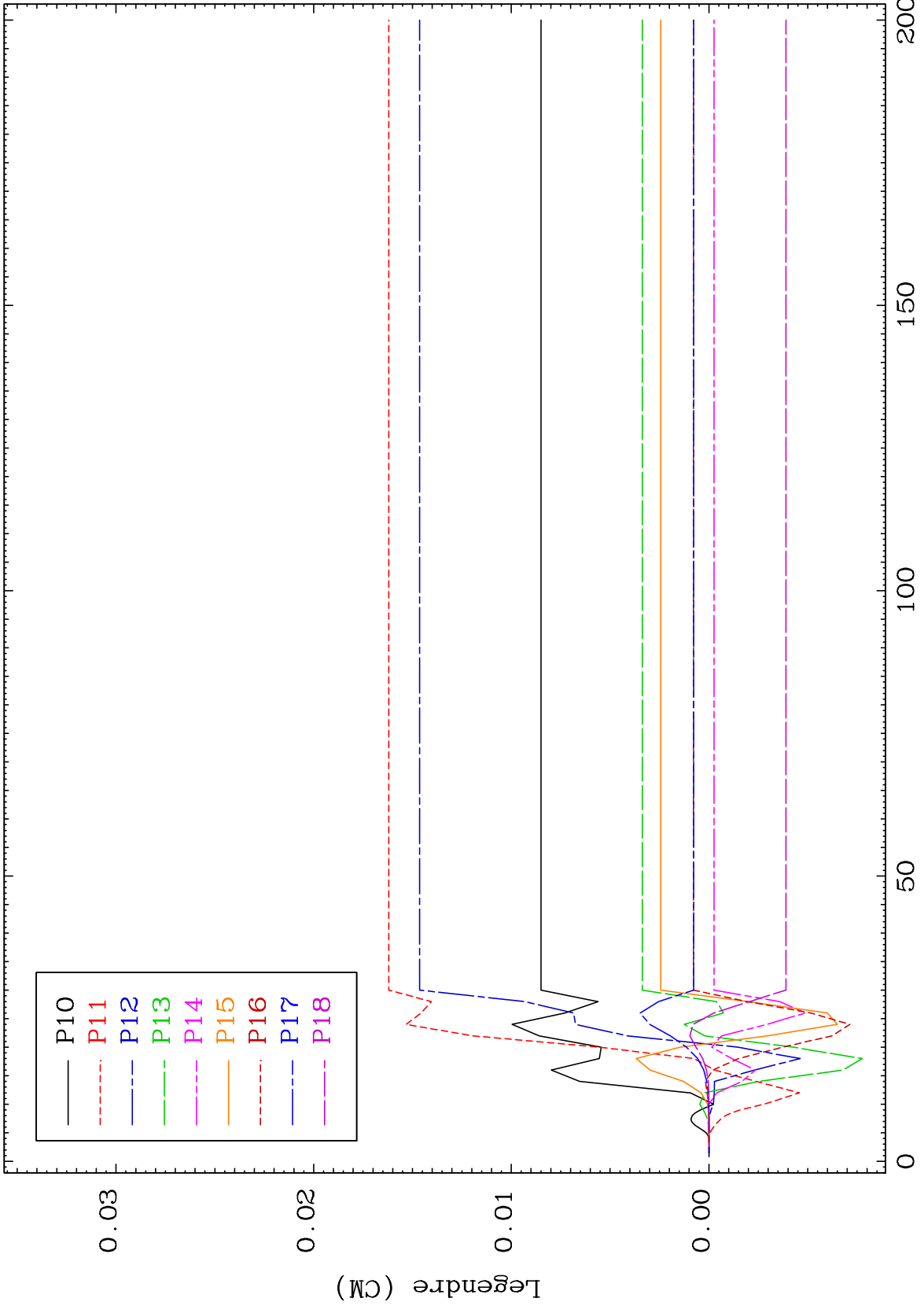
47

Incident Energy (MeV)

61-Pm-154



MAT 6170 MT= 58 (n,n') Level Legendre Coefficients 61-Pm-154

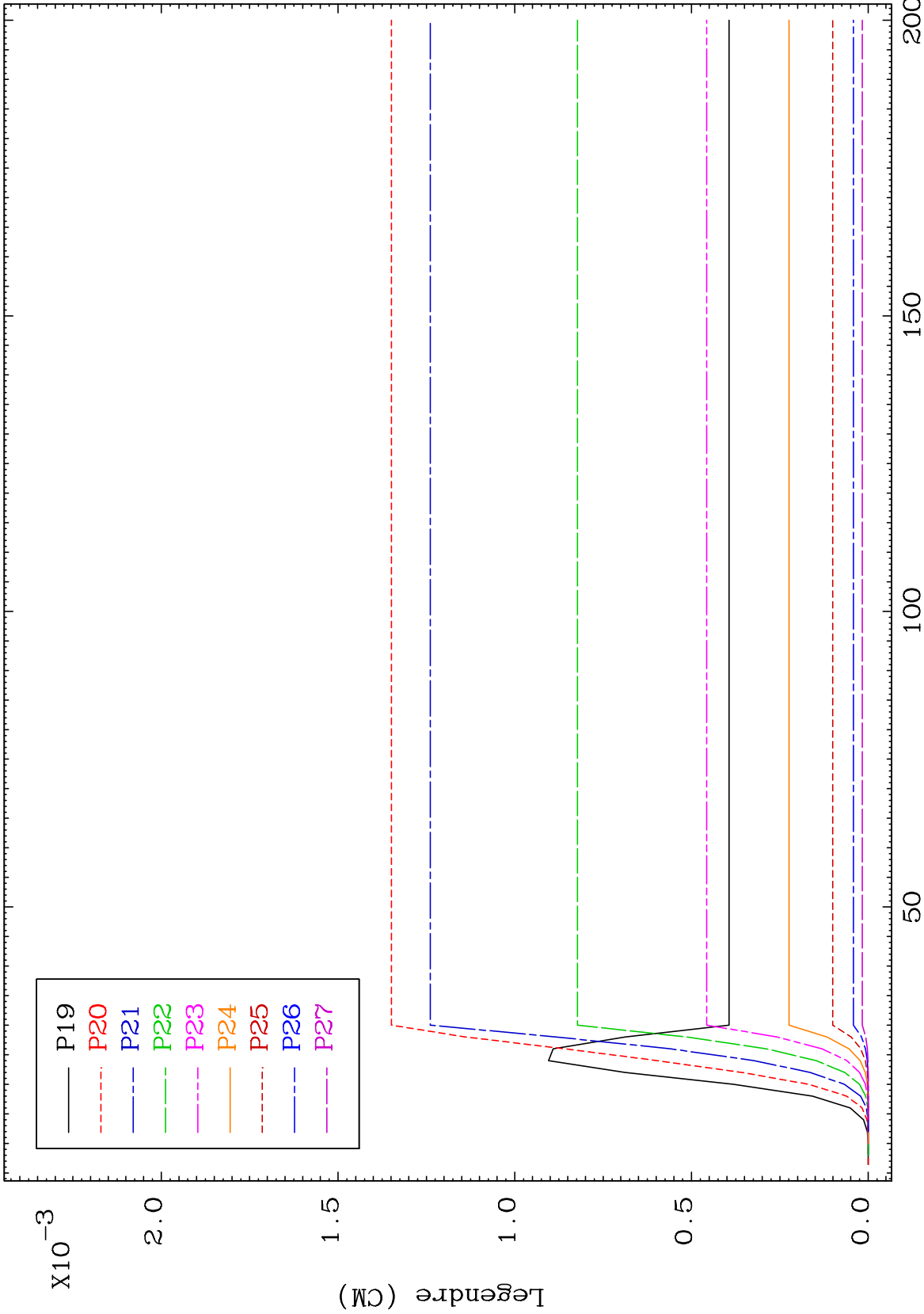


48 61-Pm-154

MAT 6170

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

61-Pm-154



49

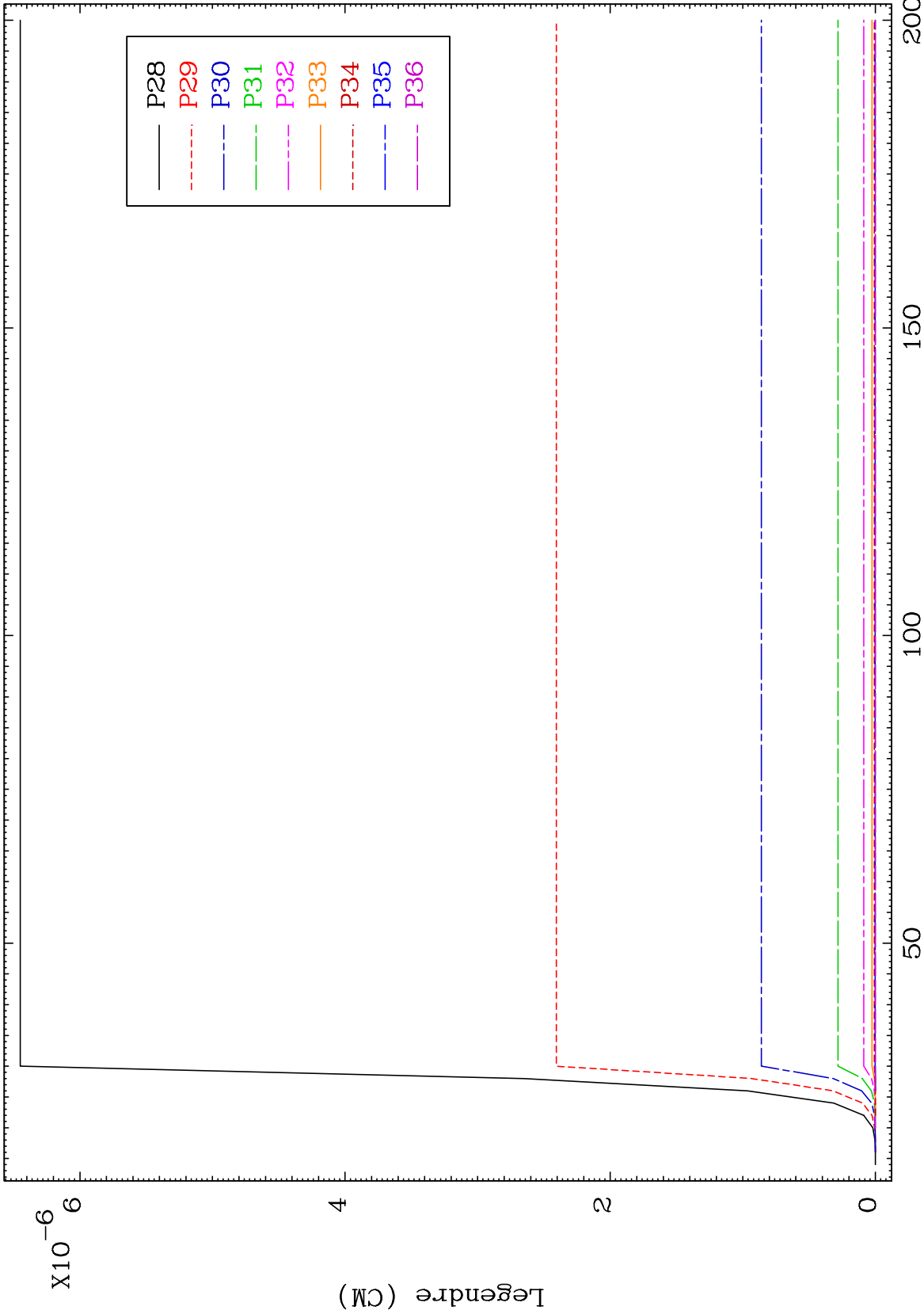
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



50

50

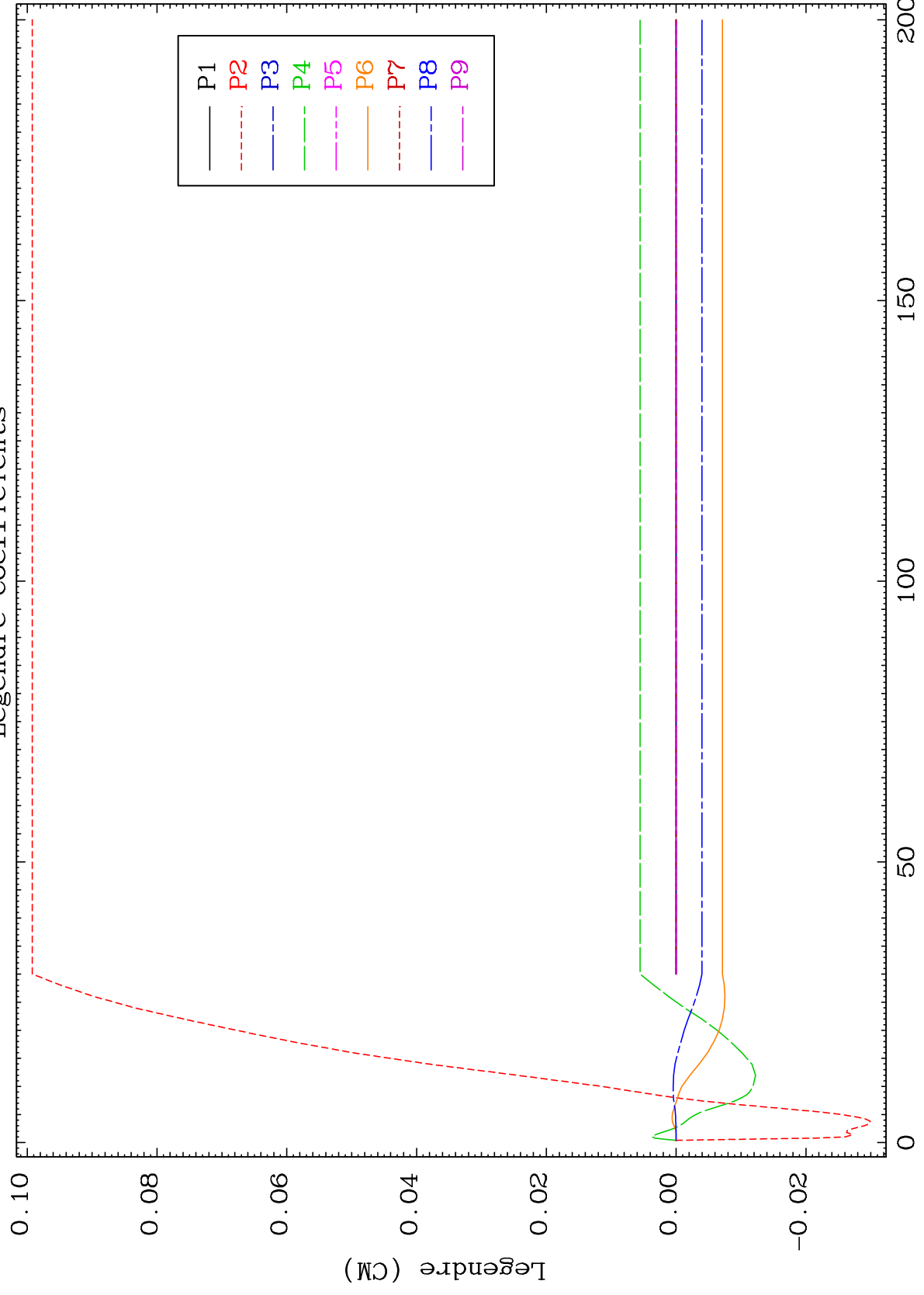
100

150

200

61-Pm-154

MAT 6170 MT= 59 (n,n') Level Legendre Coefficients 61-Pm-154

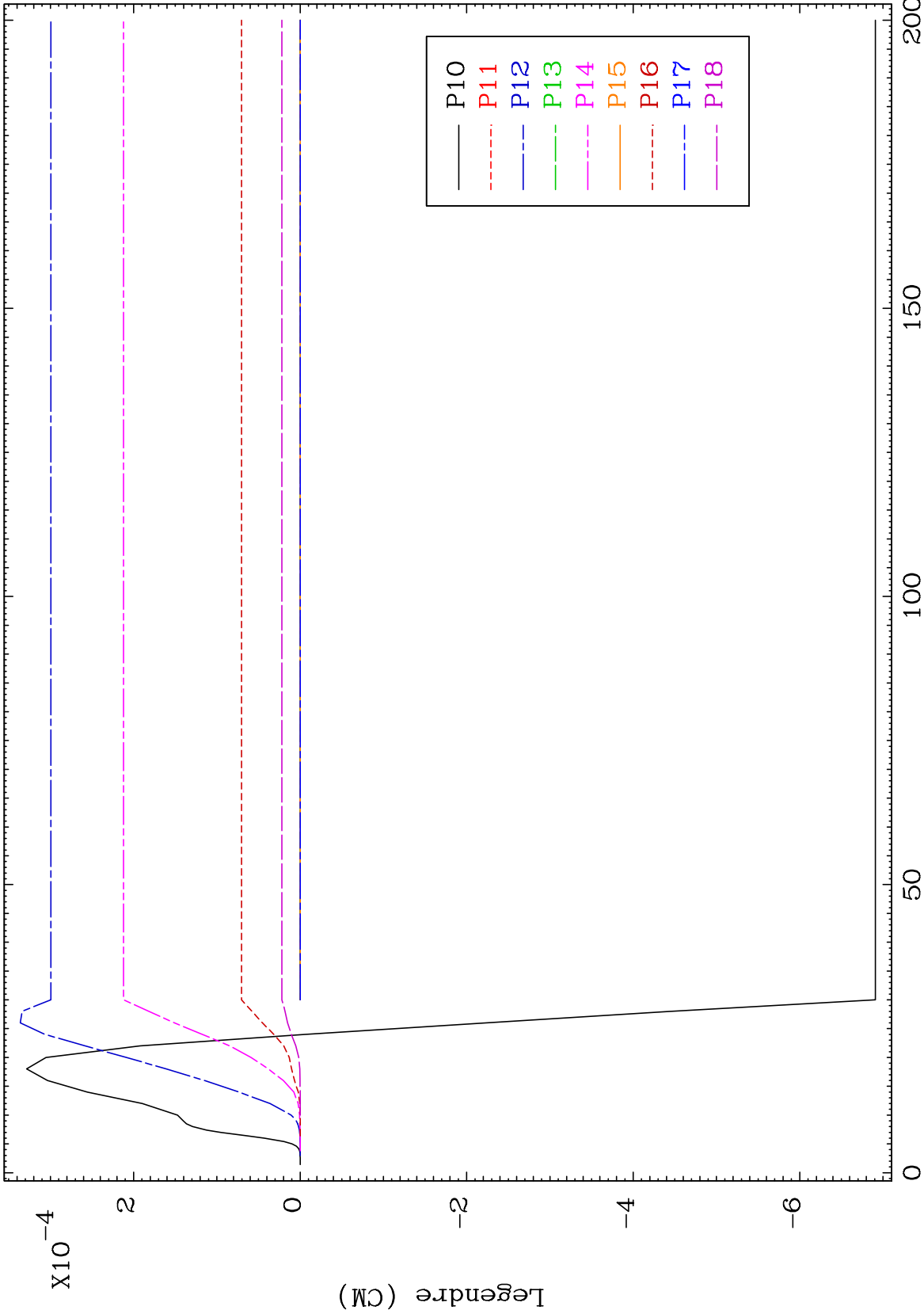


51 61-Pm-154

MAT 6170

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

61-Pm-154

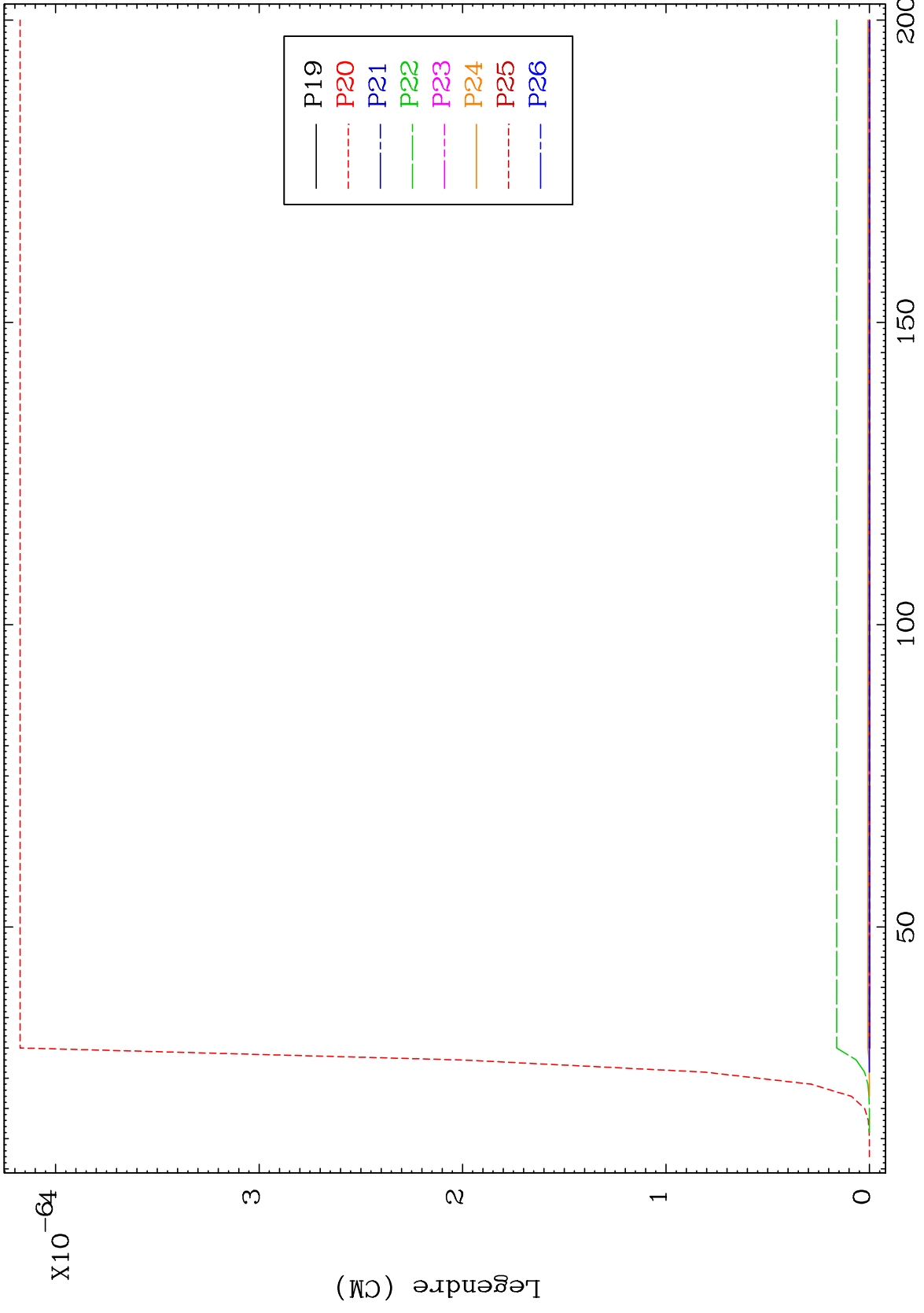


52

Incident Energy (MeV)

61-Pm-154

MAT 6170 MT= 59 (n,n') Level Legendre Coefficients 61-Pm-154

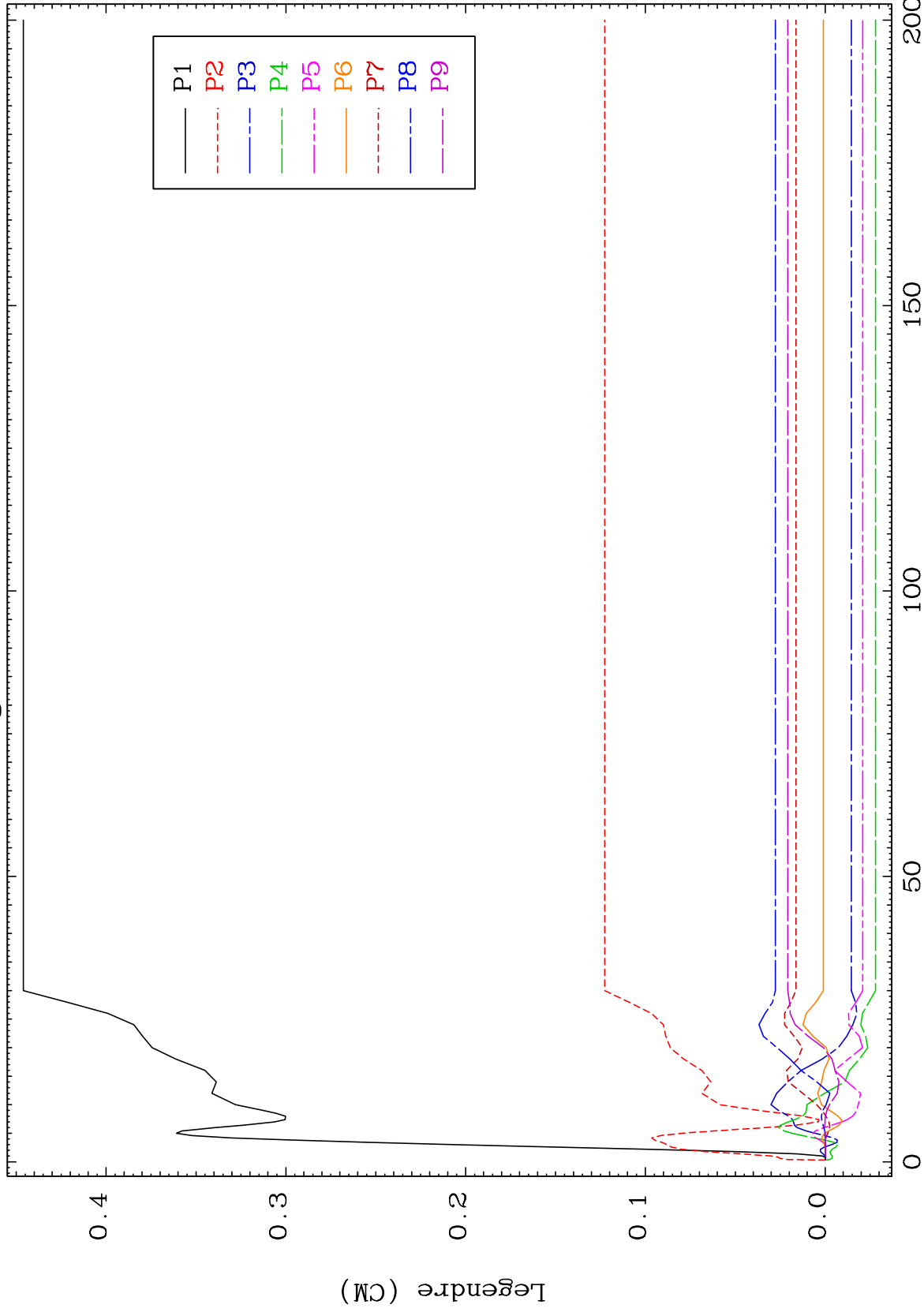


53 Incident Energy (MeV) 61-Pm-154

MAT 6170

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

61-Pm-154



54

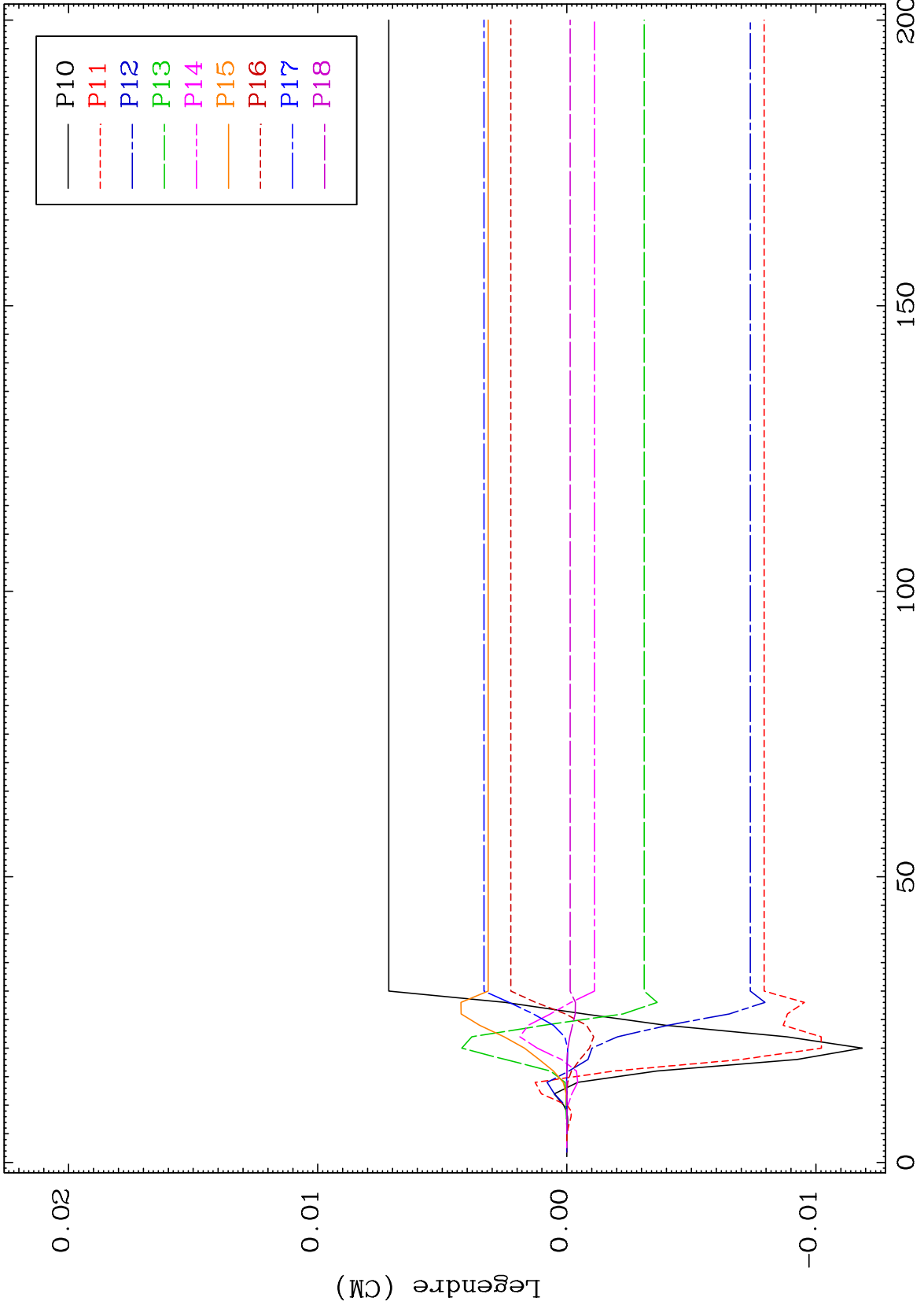
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



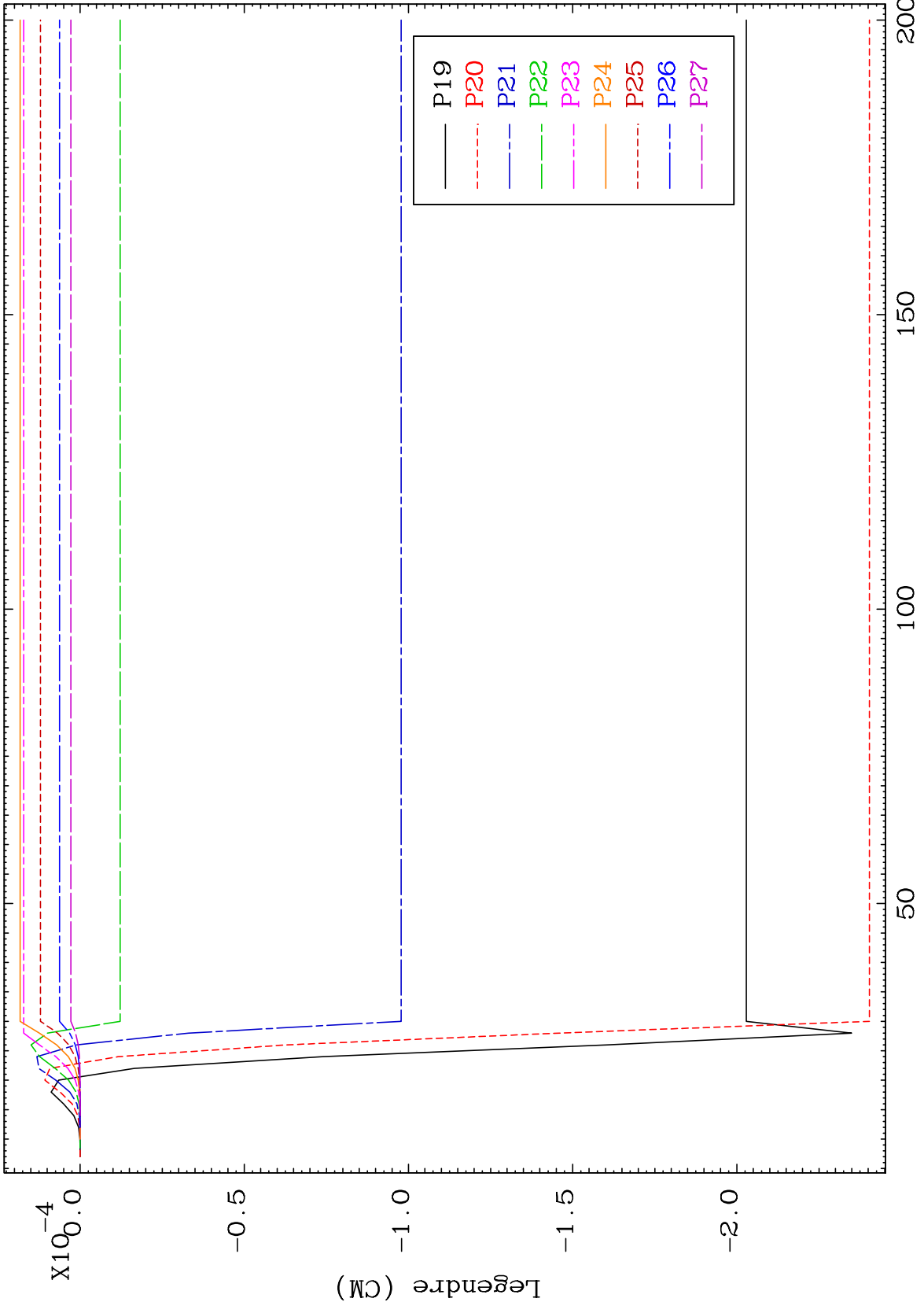
55

Incident Energy (MeV)

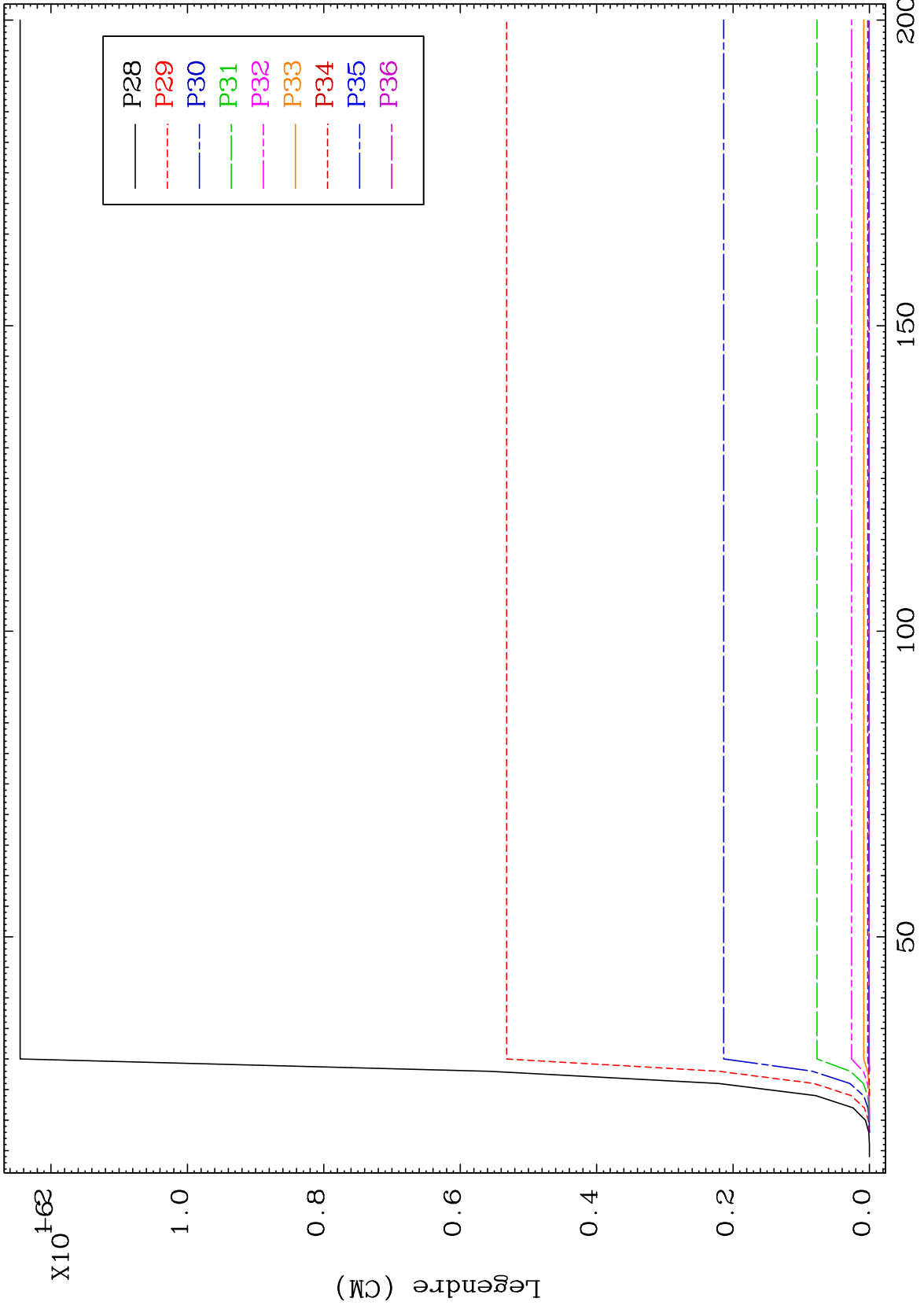
61-Pm-154



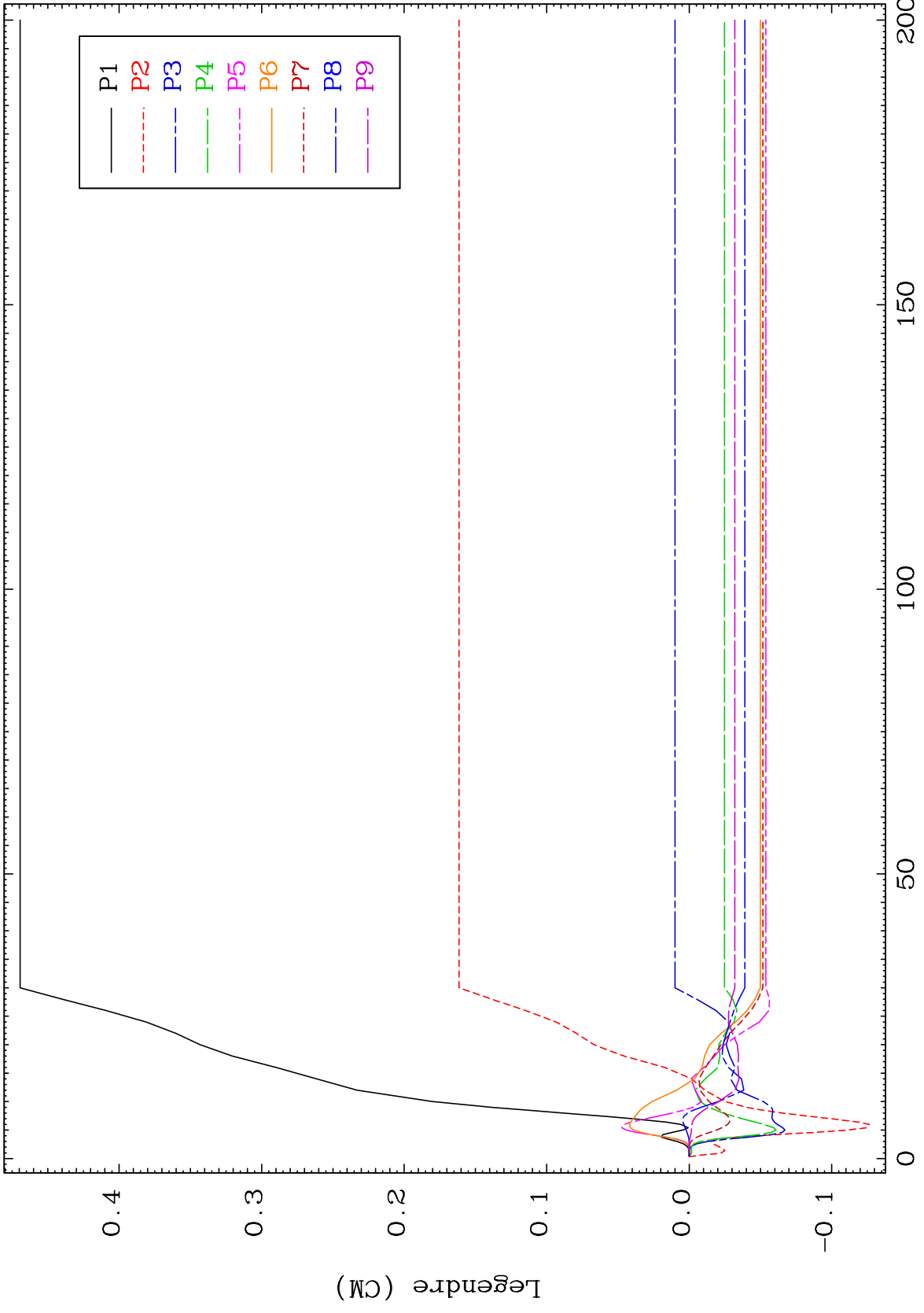
MAT 6170 MT= 60 (n,n') Level Legendre Coefficients 61-Pm-154



56 Incident Energy (MeV) 61-Pm-154

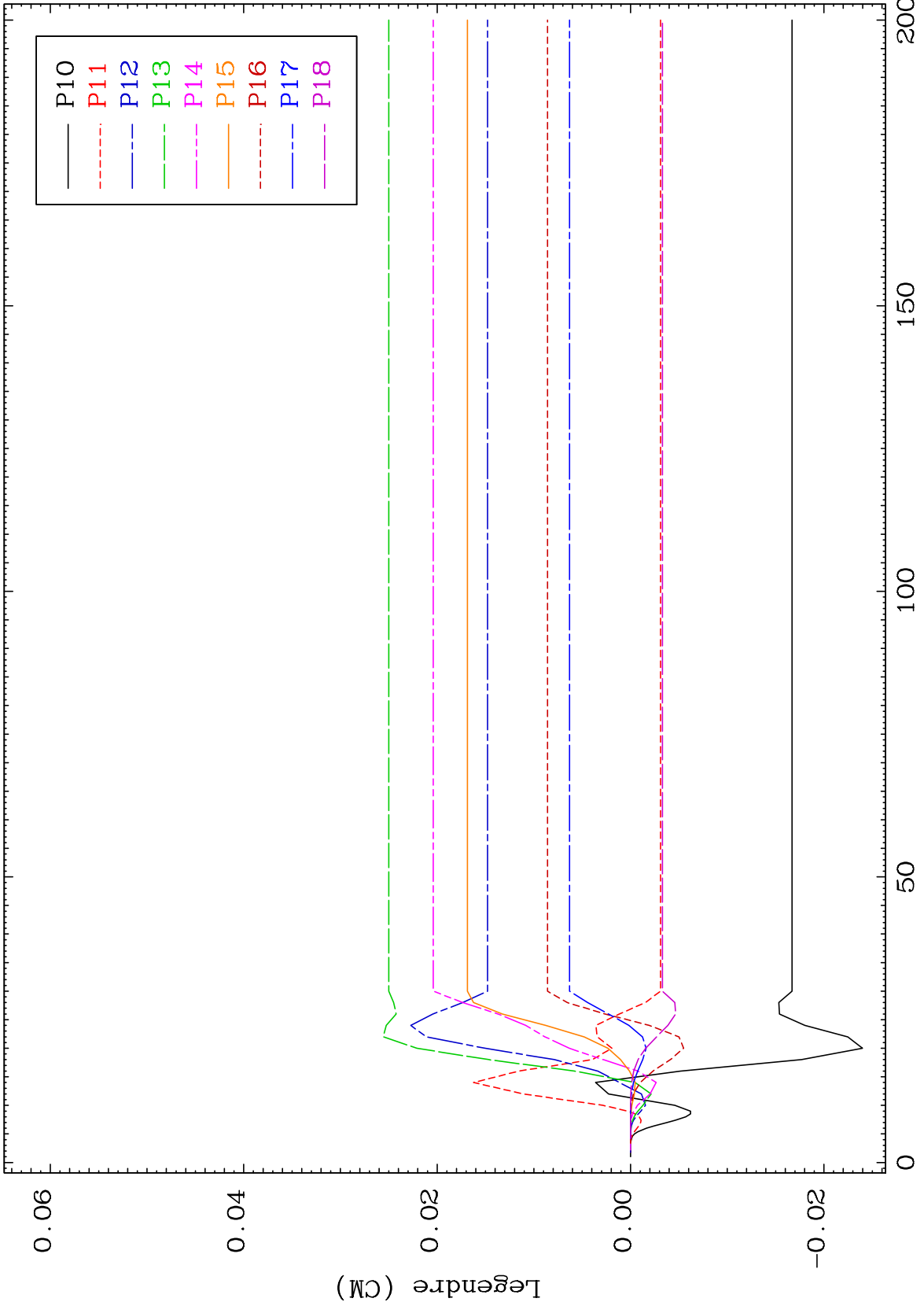


MAT 6170 MT= 61 (n,n') Level Legendre Coefficients 61-Pm-154



58 Incident Energy (MeV) 61-Pm-154

MAT 6170 MT= 61 (n,n') Level Legendre Coefficients 61-Pm-154

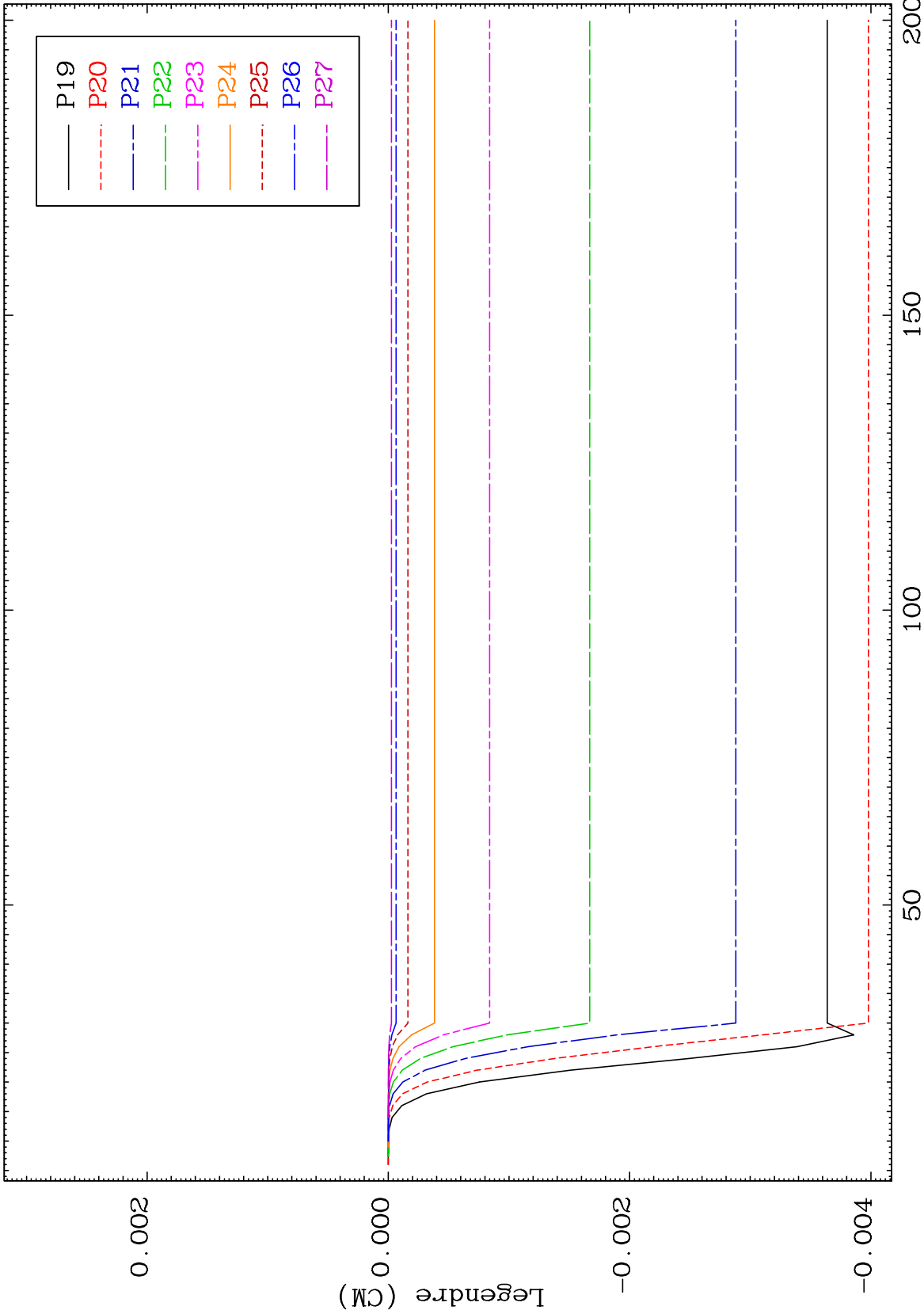


59 61-Pm-154

MAT 6170

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

61-Pm-154

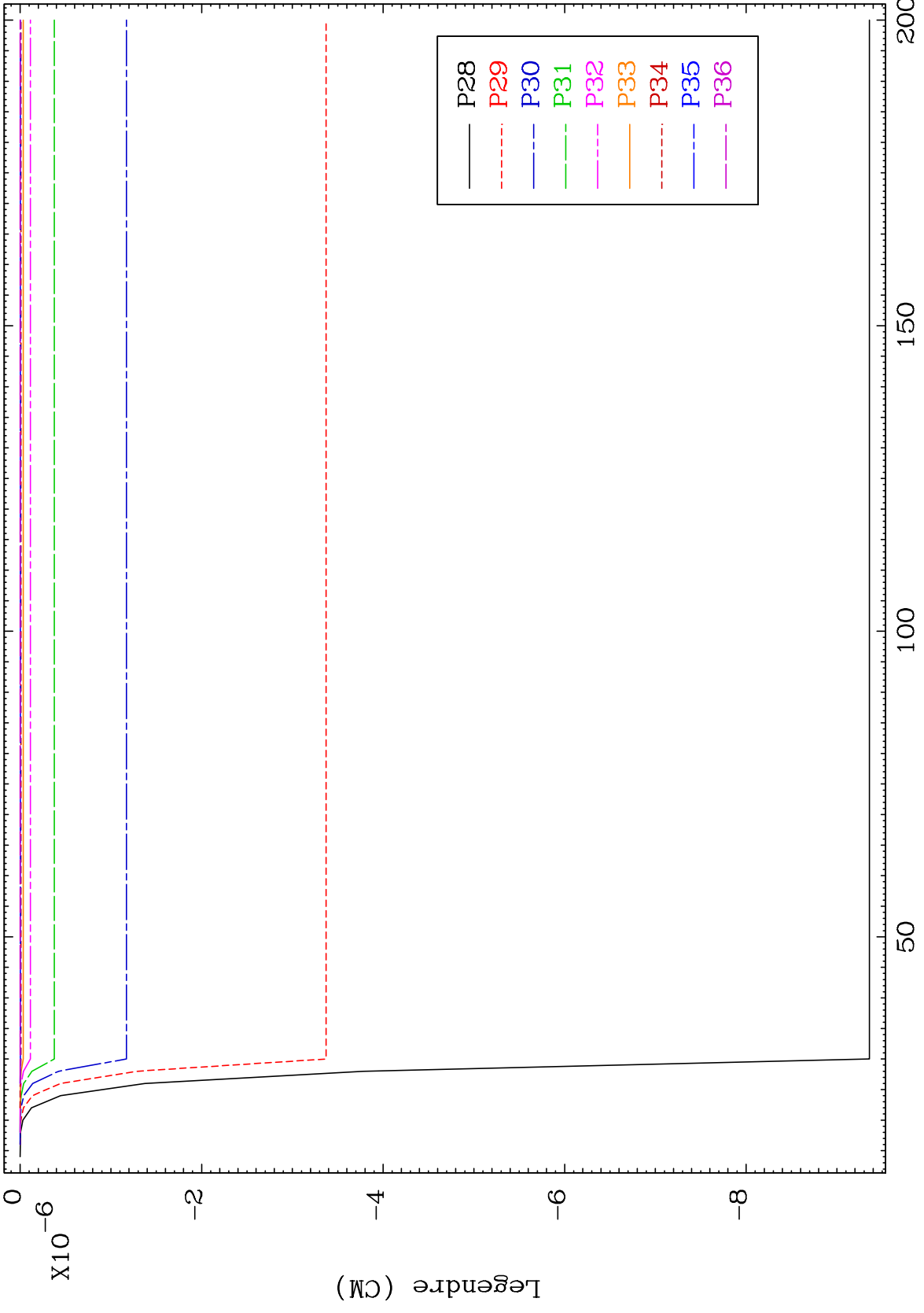


60

Incident Energy (MeV)

61-Pm-154

MAT 6170 MT= 61 (n,n') Level Legendre Coefficients 61-Pm-154

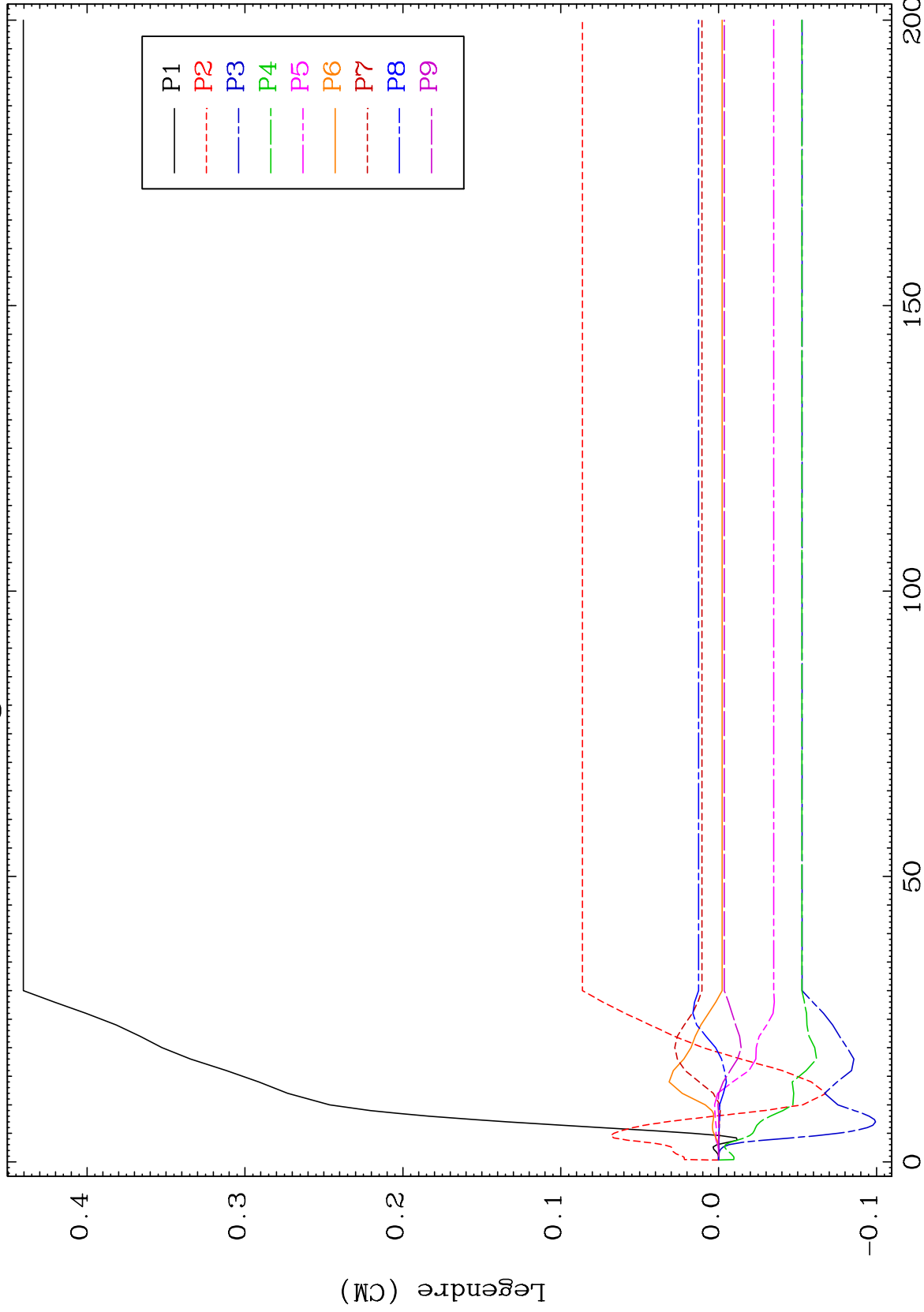


61 61-Pm-154 Incident Energy (MeV)

MAT 6170

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

61-Pm-154



62

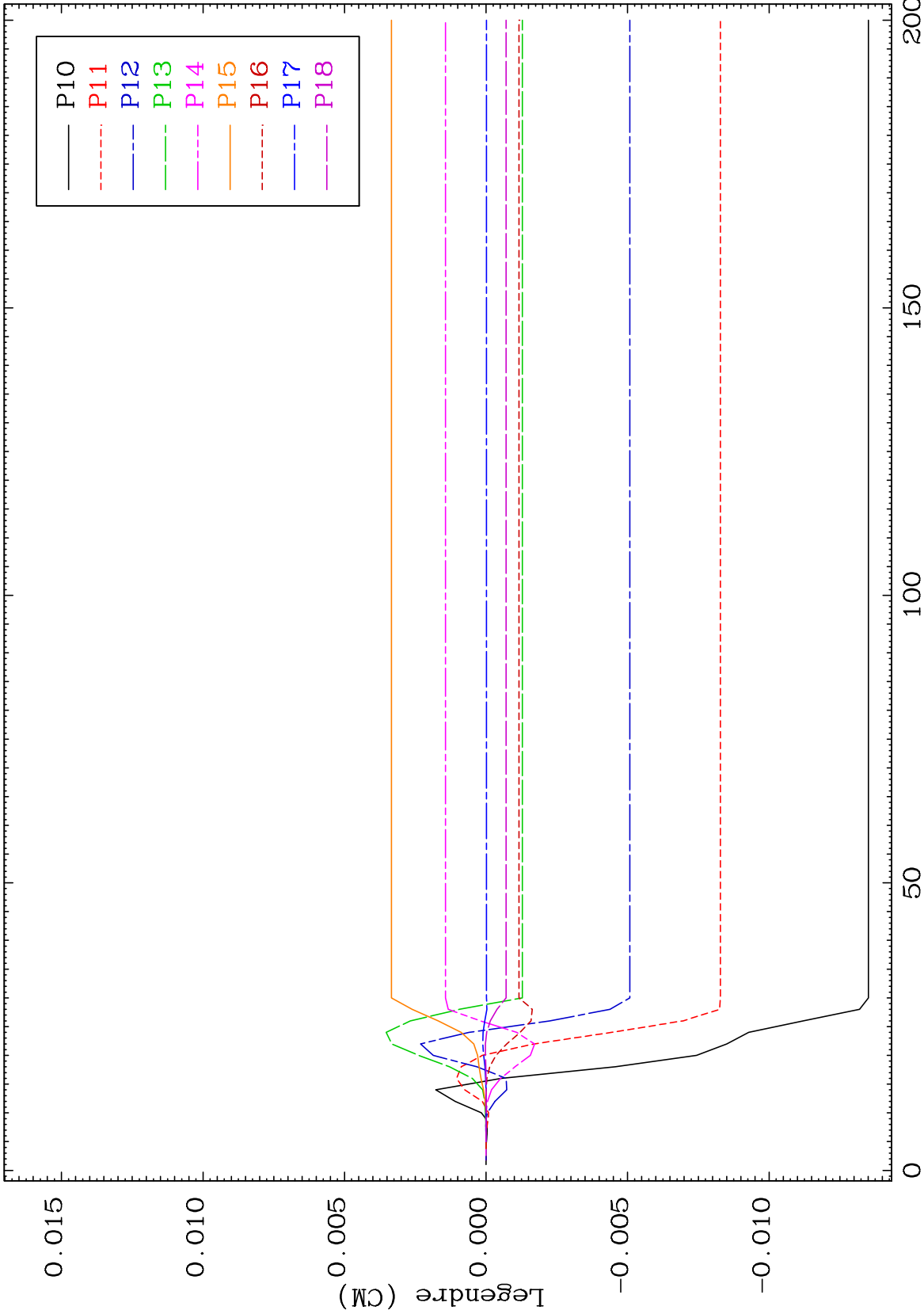
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



63

Incident Energy (MeV)

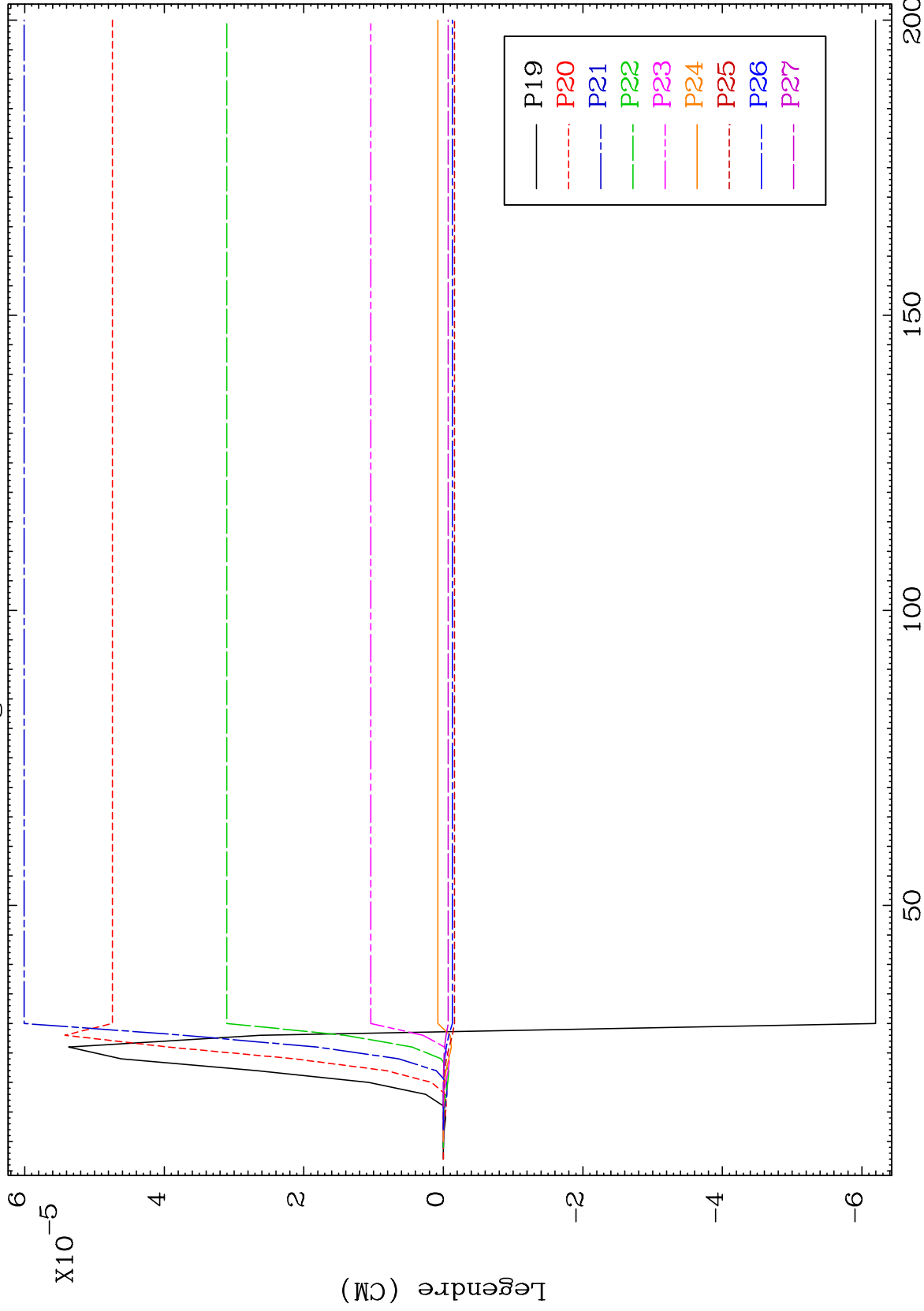
61-Pm-154



MAT 6170

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

61-Pm-154



64

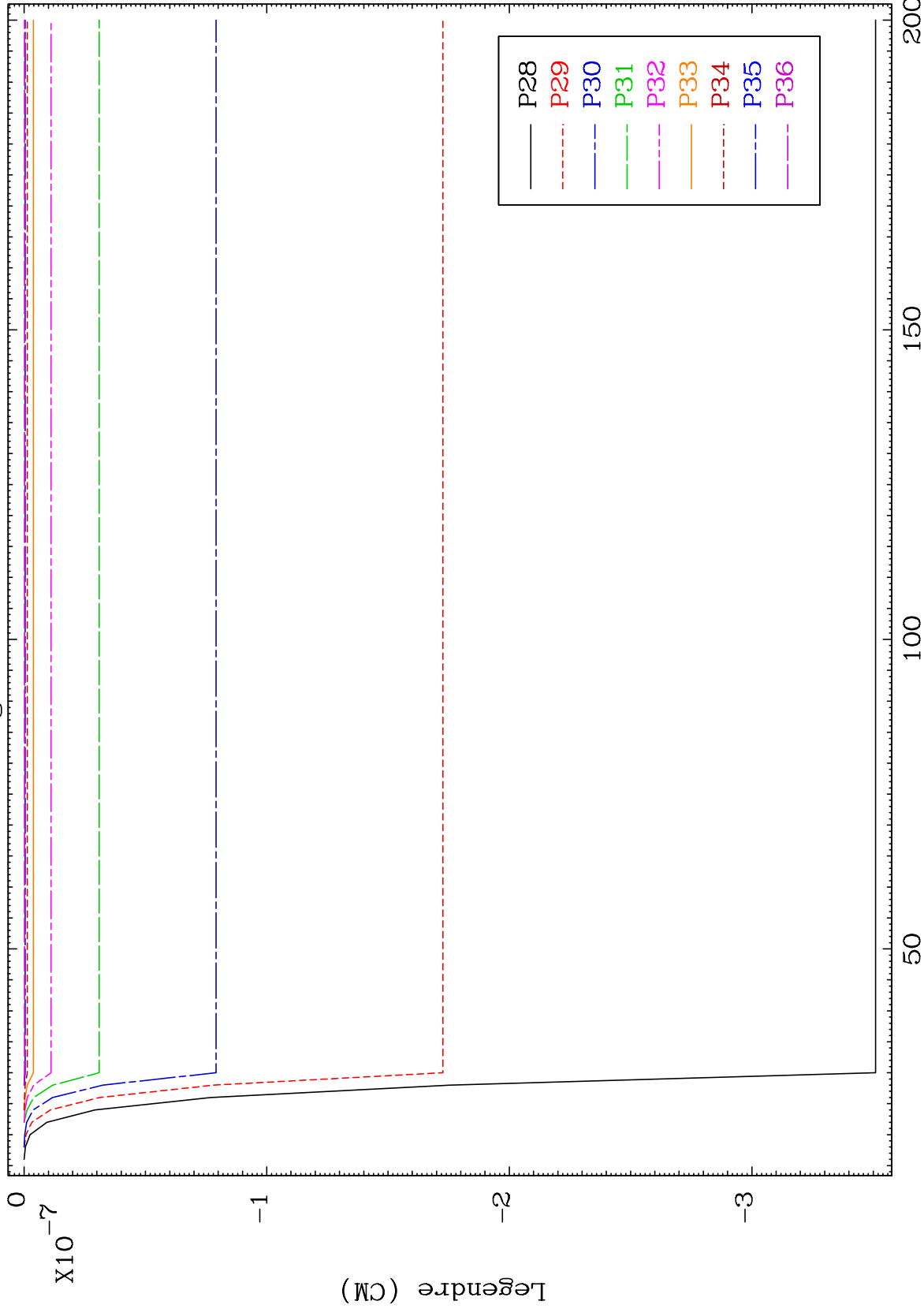
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



61-Pm-154

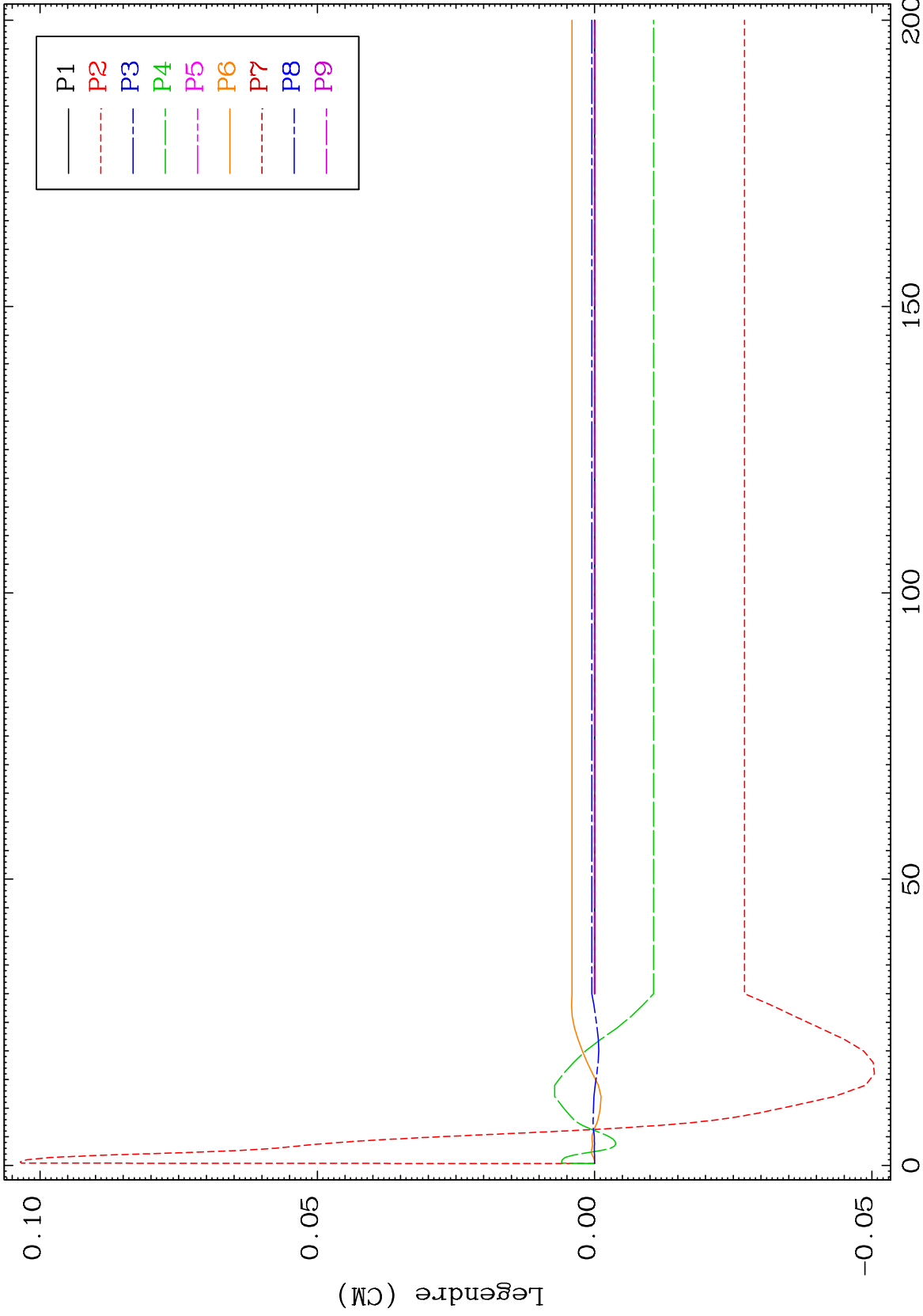
Incident Energy (MeV)

65

MAT 6170

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

61-Pm-154



66

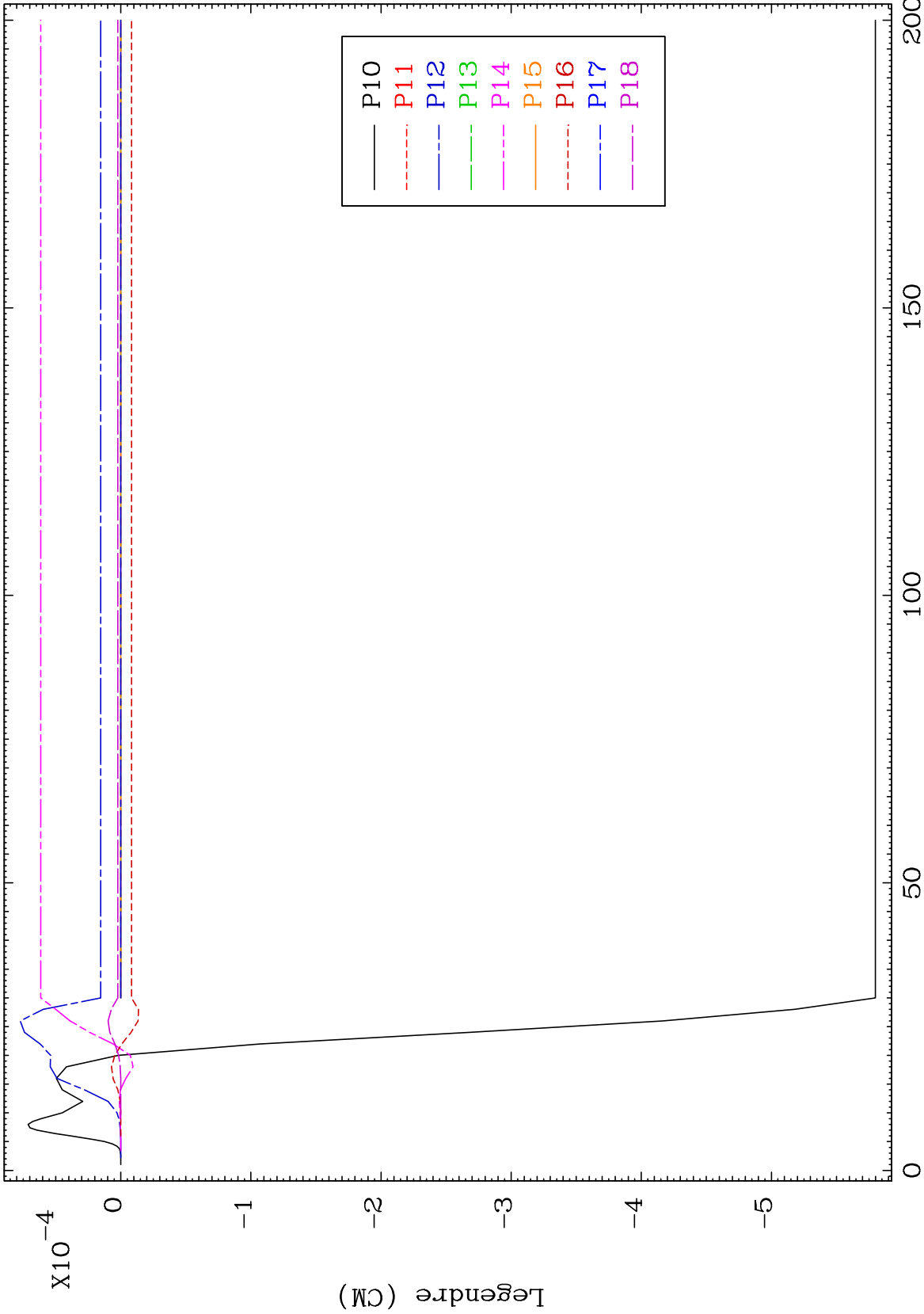
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



67

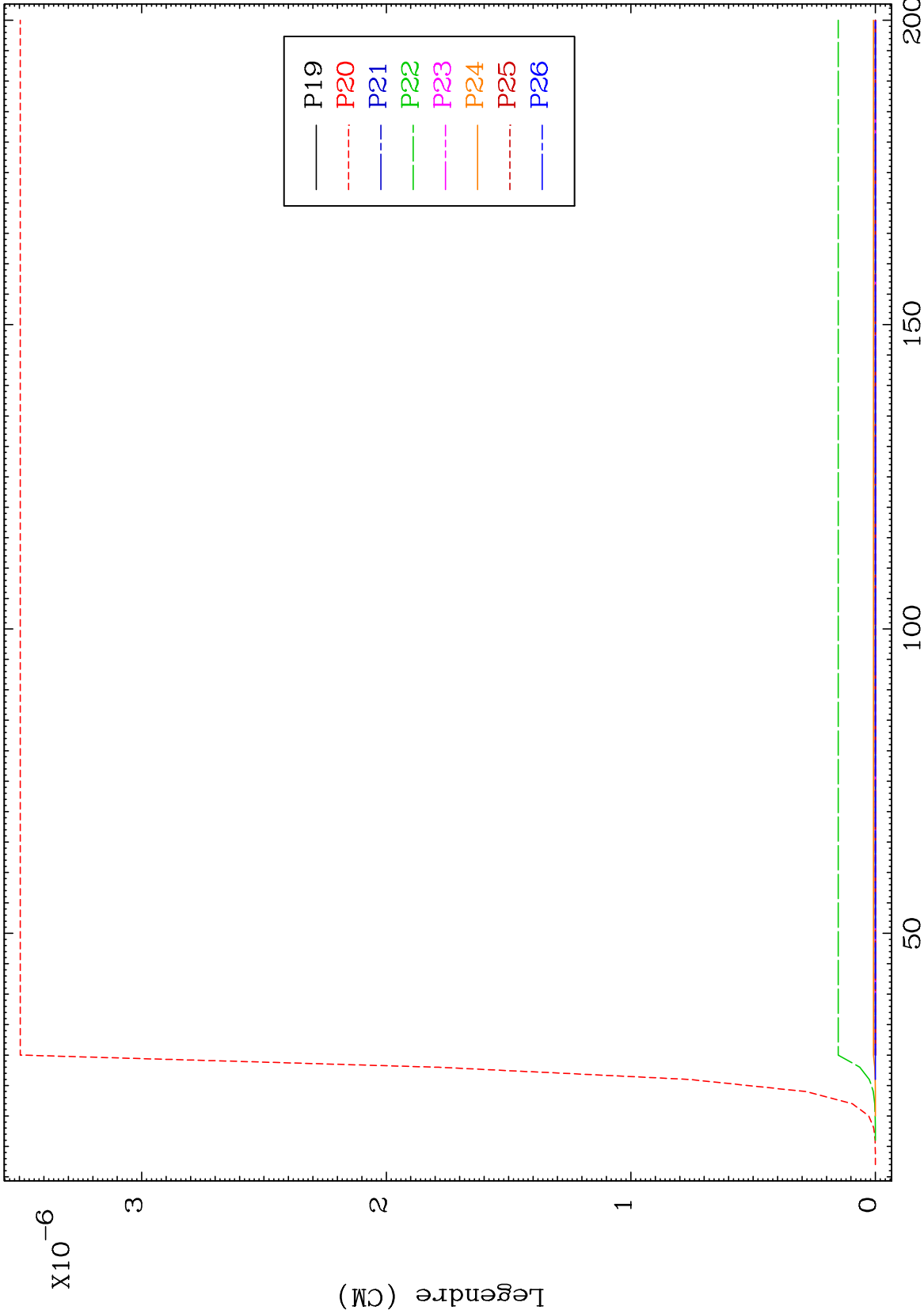
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



68

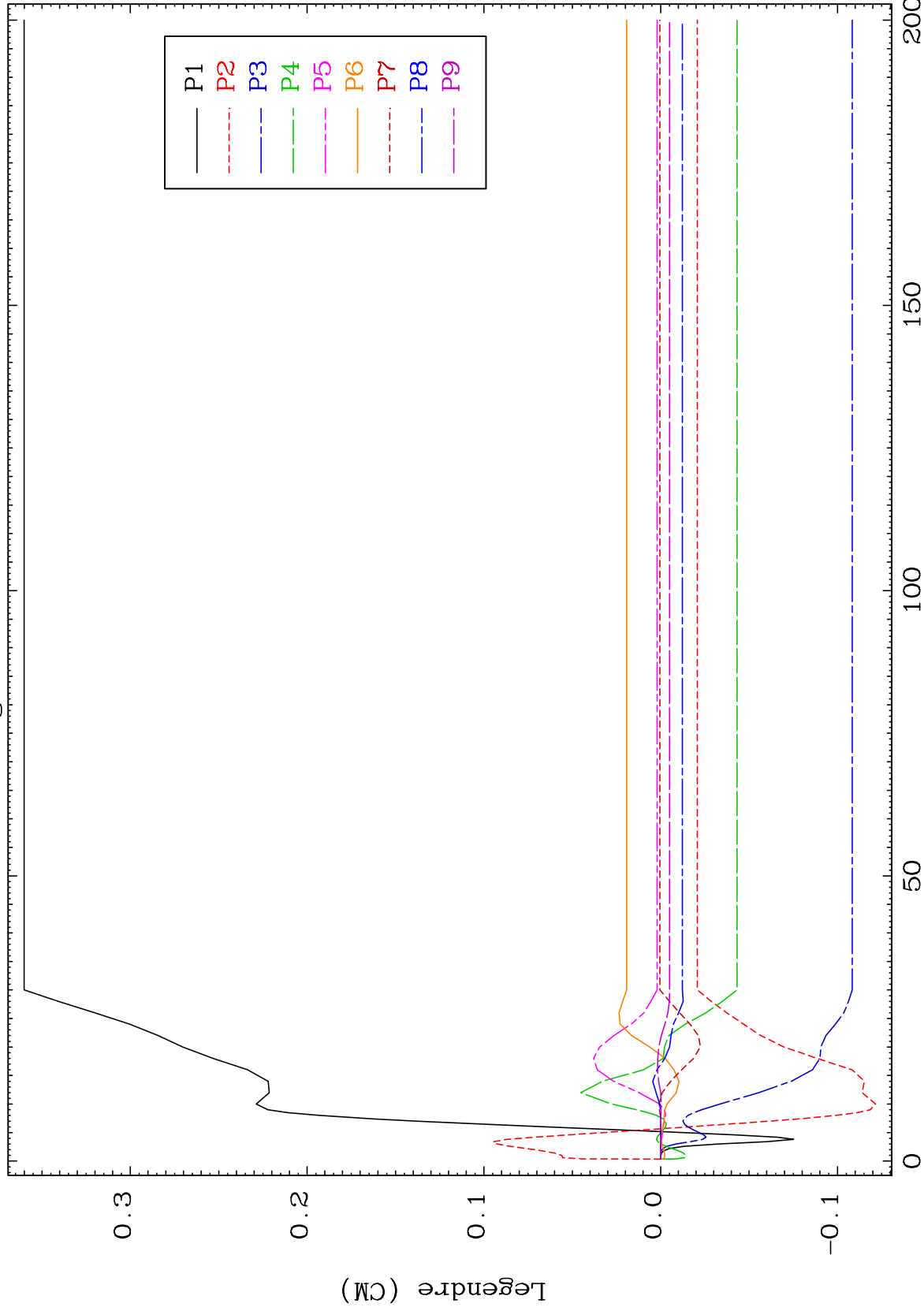
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



69

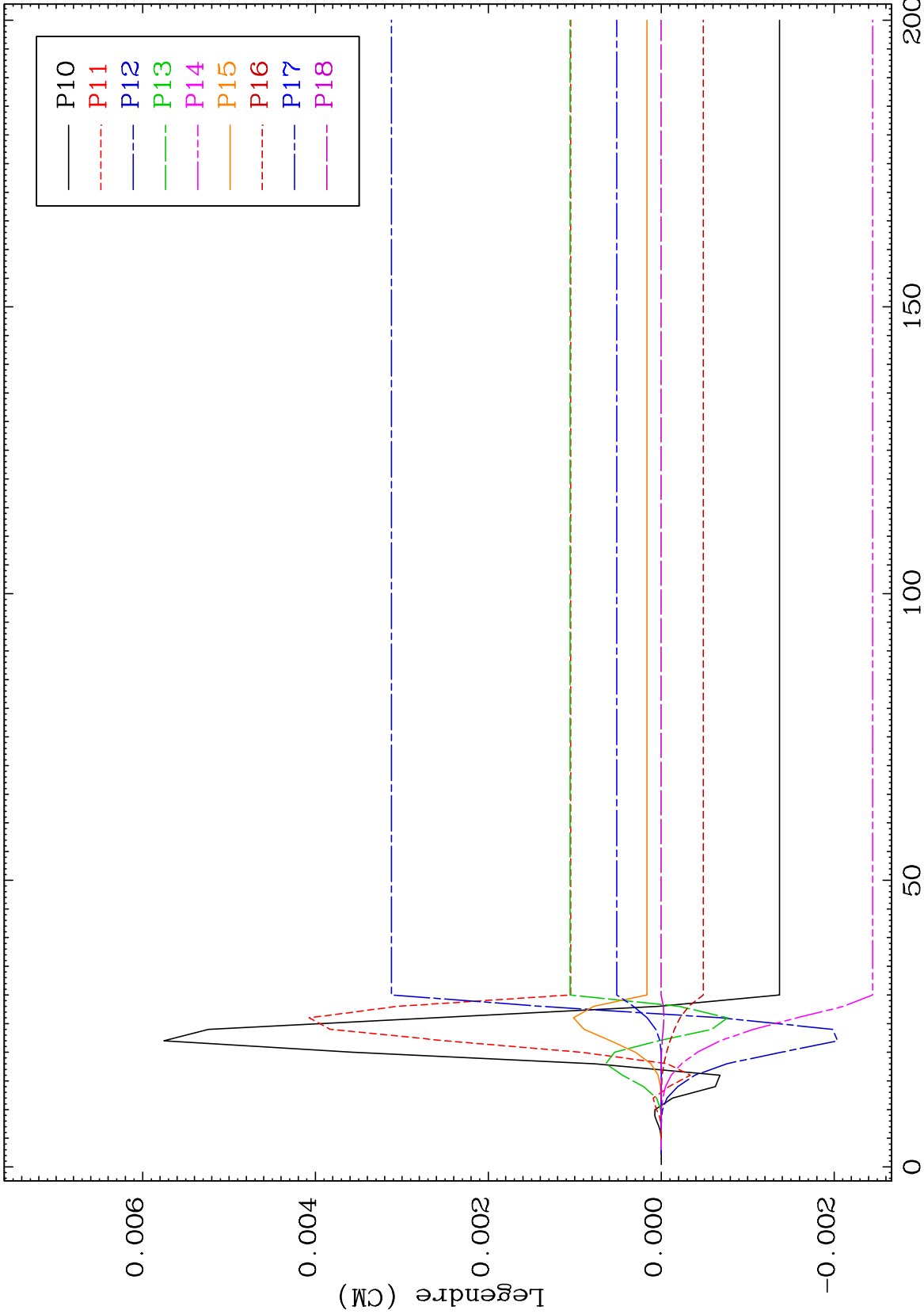
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

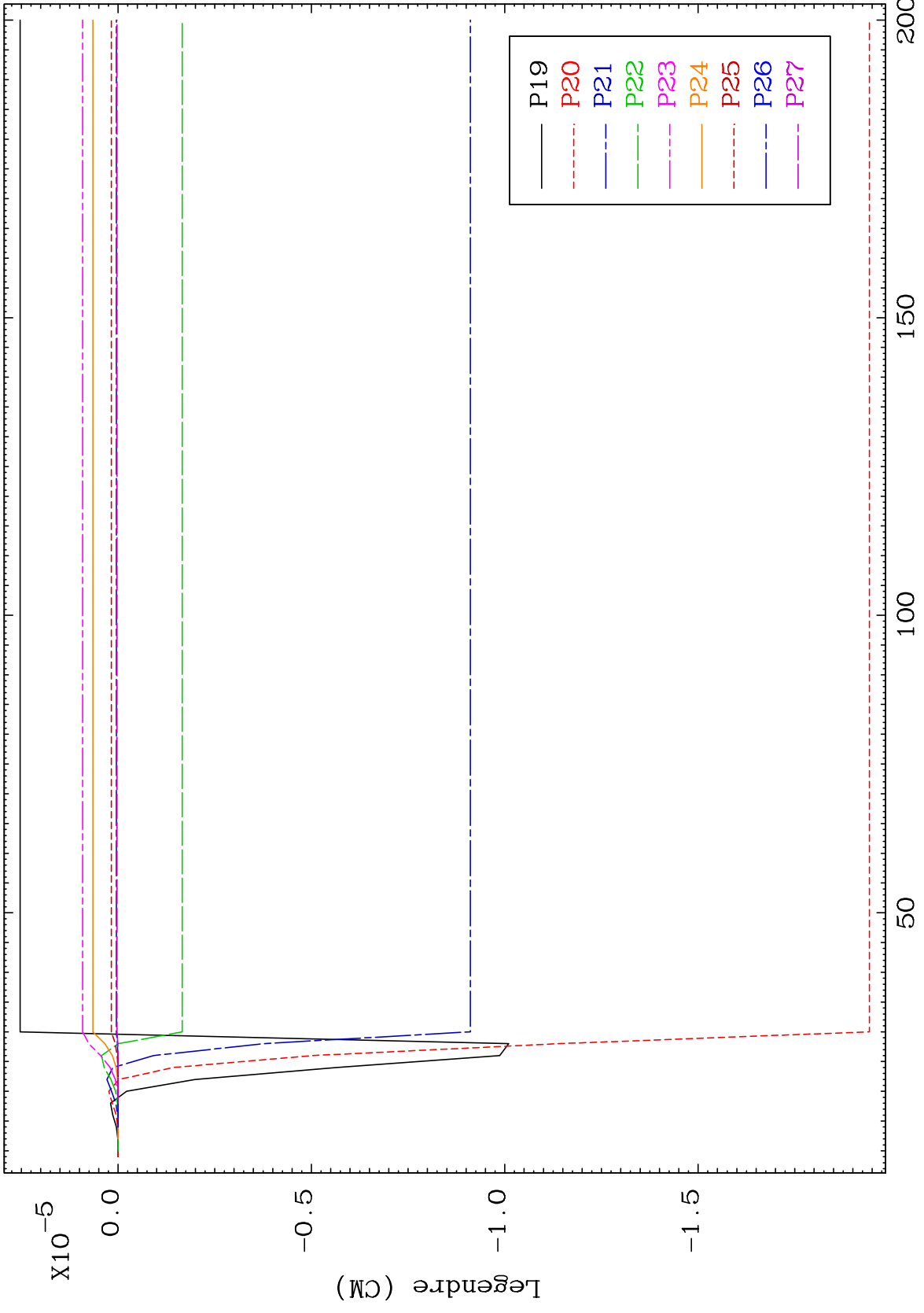
61-Pm-154



70

Incident Energy (MeV)

61-Pm-154

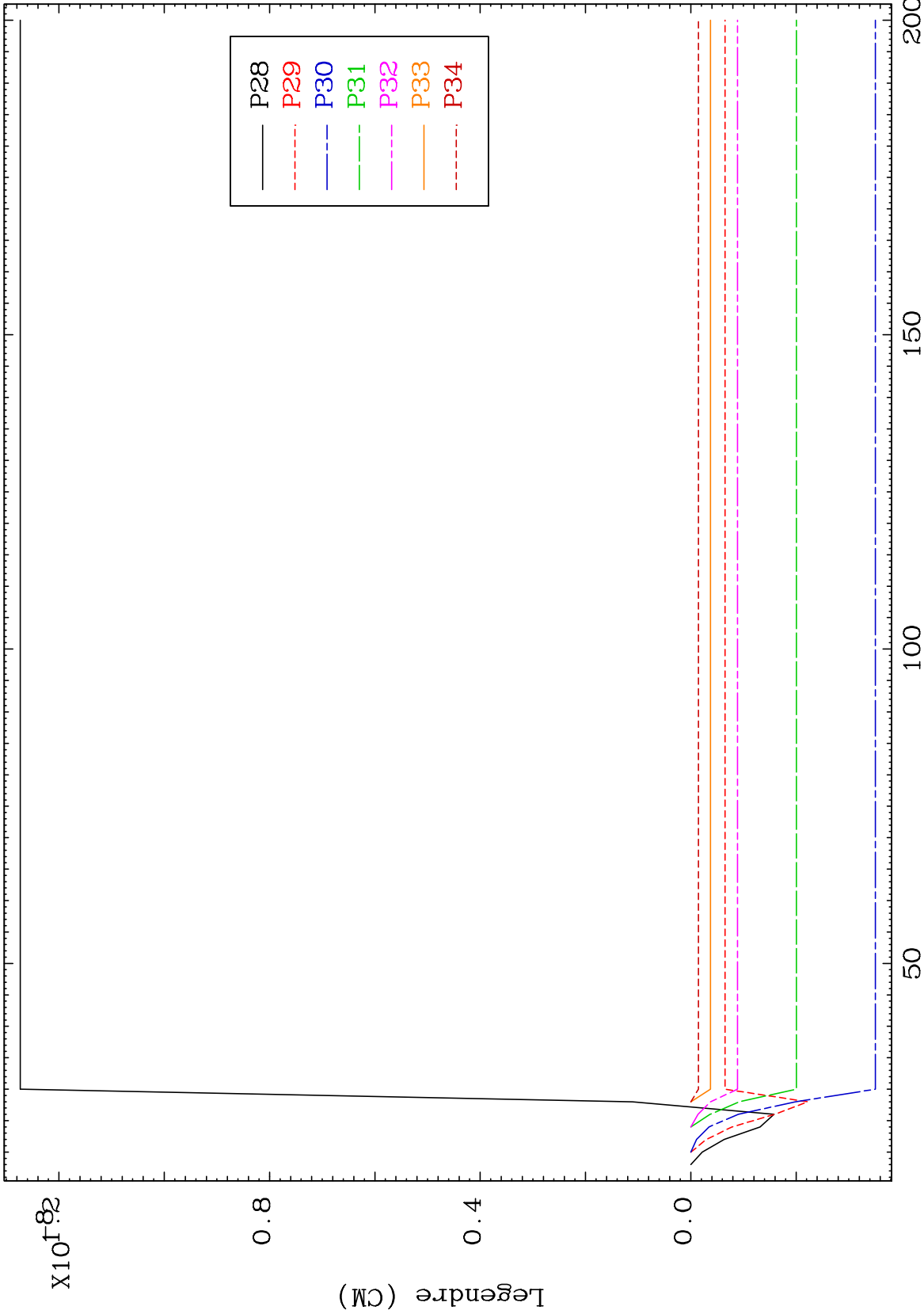




MAT 6170

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

61-Pm-154

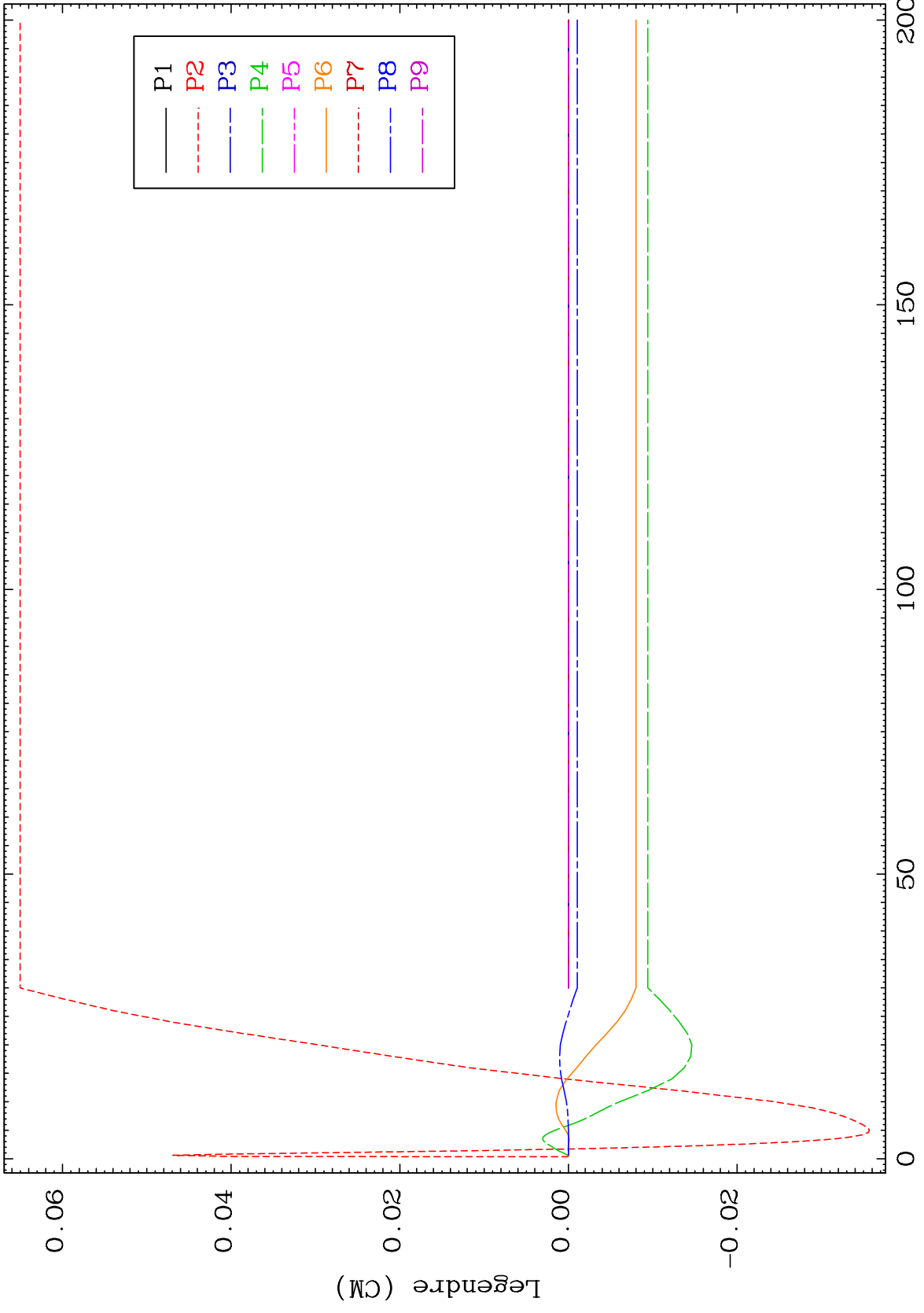


72

Incident Energy (MeV)

61-Pm-154

MAT 6170 MT= 65 (n,n') Level Legendre Coefficients 61-Pm-154

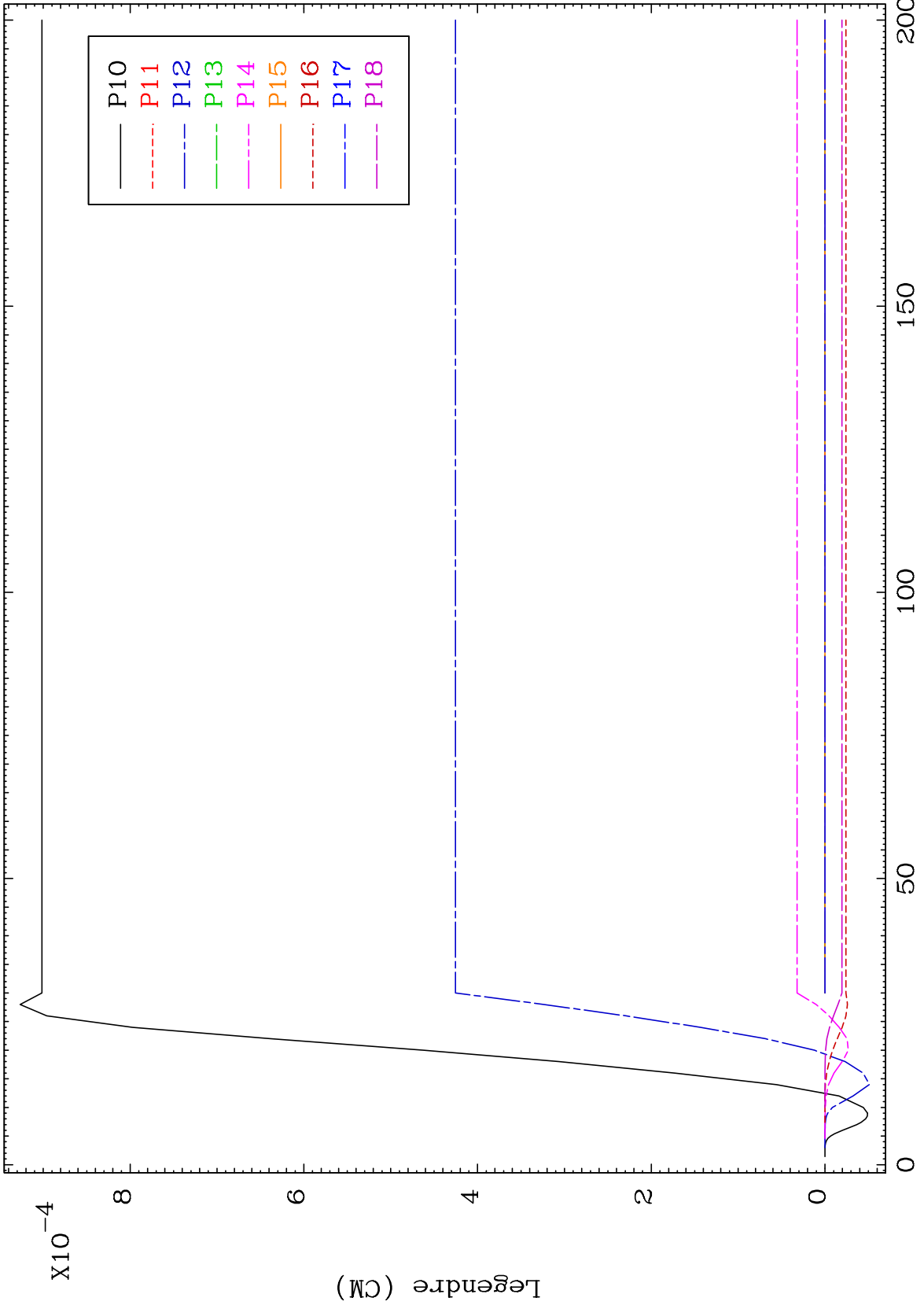


73 61-Pm-154

MAT 6170

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

61-Pm-154

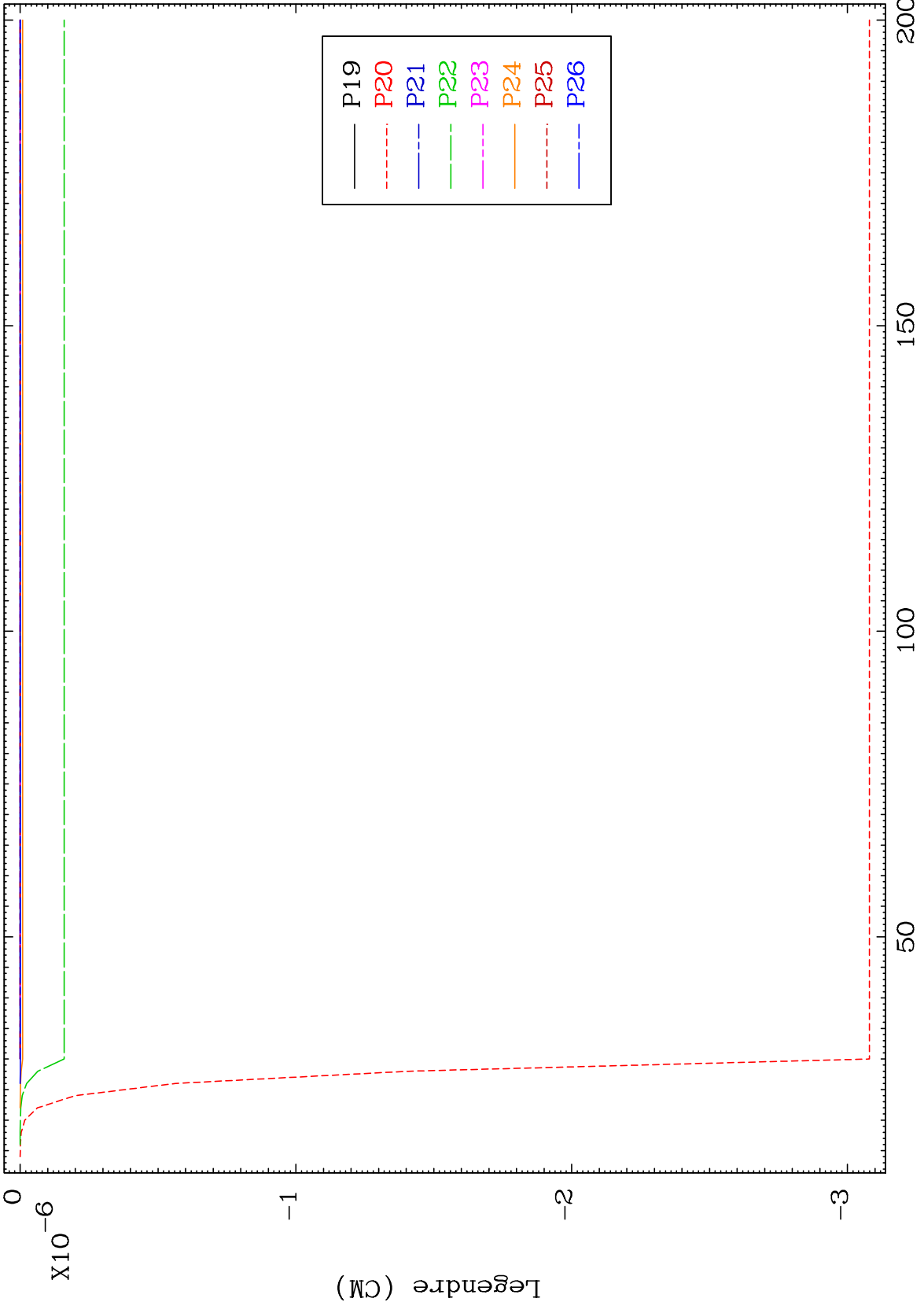


74

Incident Energy (MeV)

61-Pm-154

MAT 6170 MT= 65 (n,n') Level Legendre Coefficients 61-Pm-154

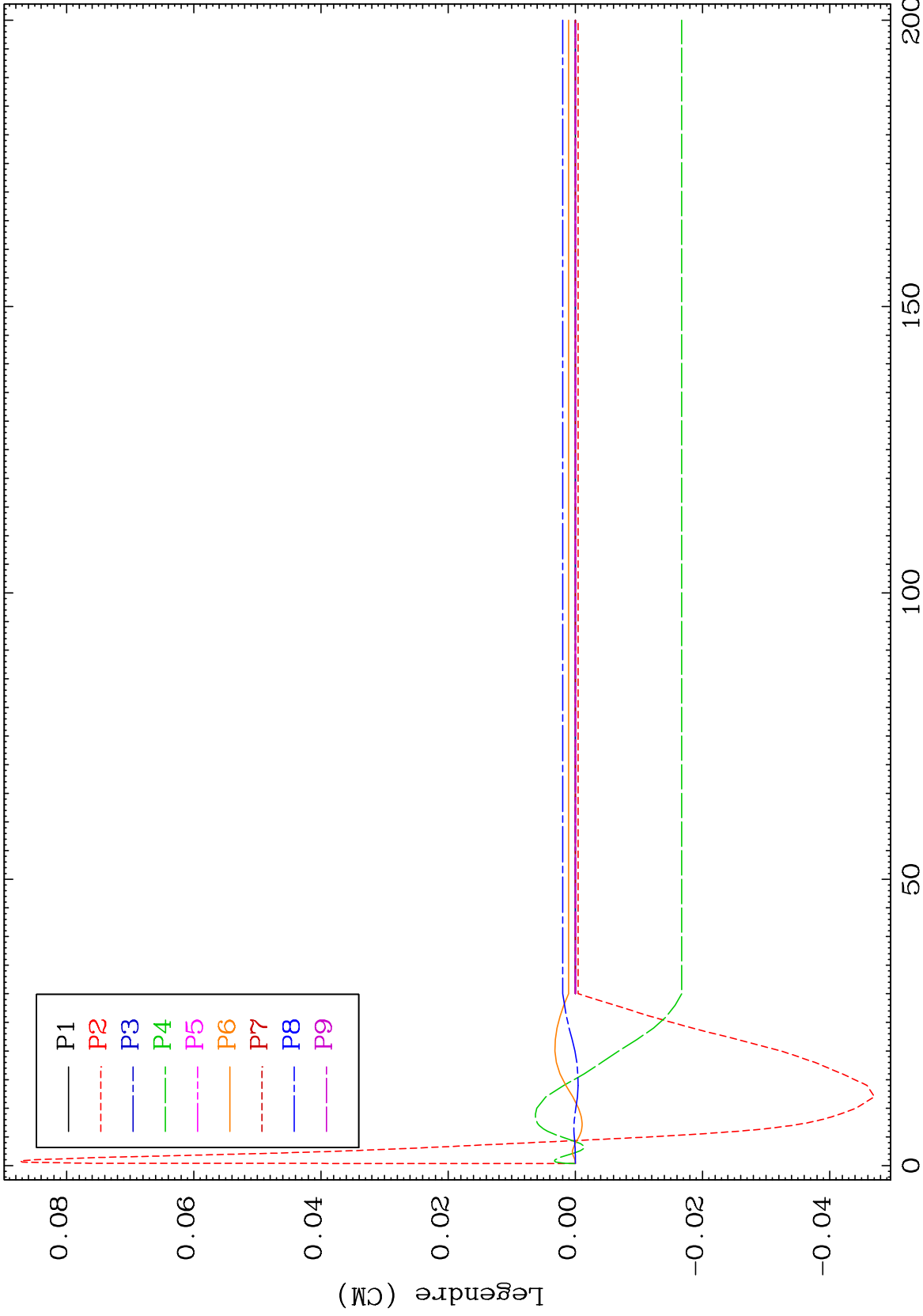


75 Incident Energy (MeV) 150 200 61-Pm-154

MAT 6170

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

61-Pm-154



76

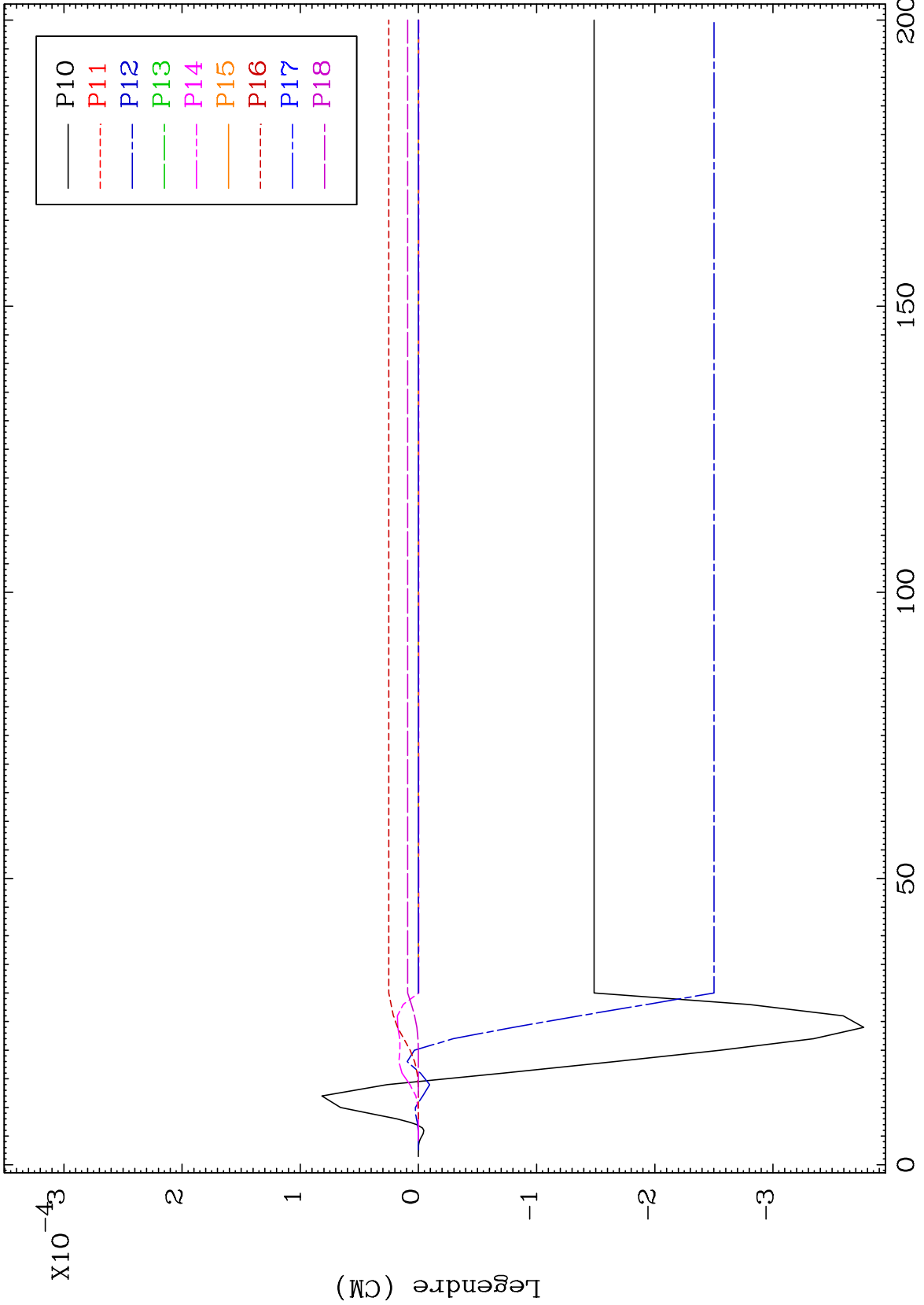
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154

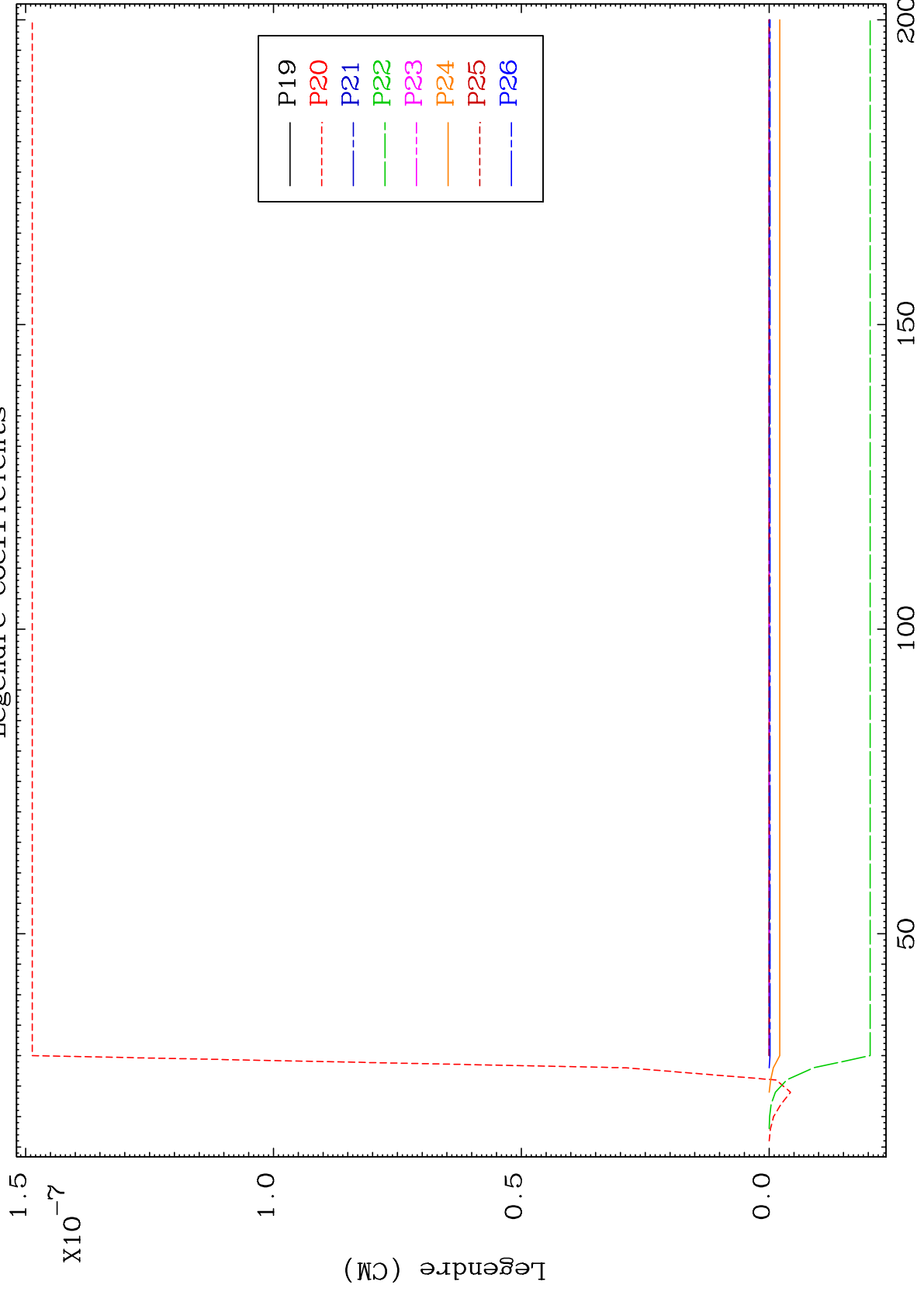


77

Incident Energy (MeV)

61-Pm-154

MAT 6170 MT= 66 (n,n') Level Legendre Coefficients 61-Pm-154

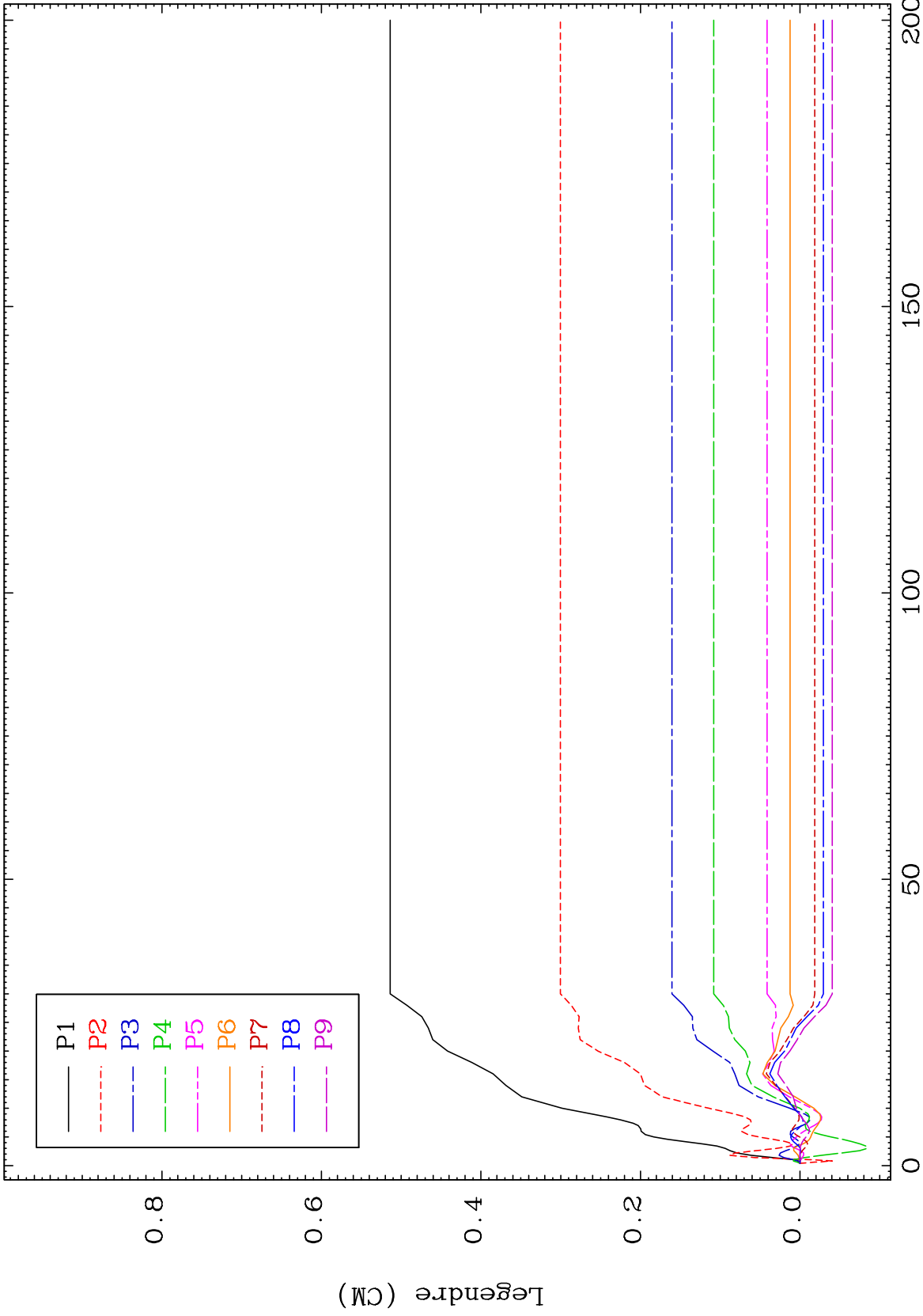


78 61-Pm-154

MAT 6170

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

61-Pm-154

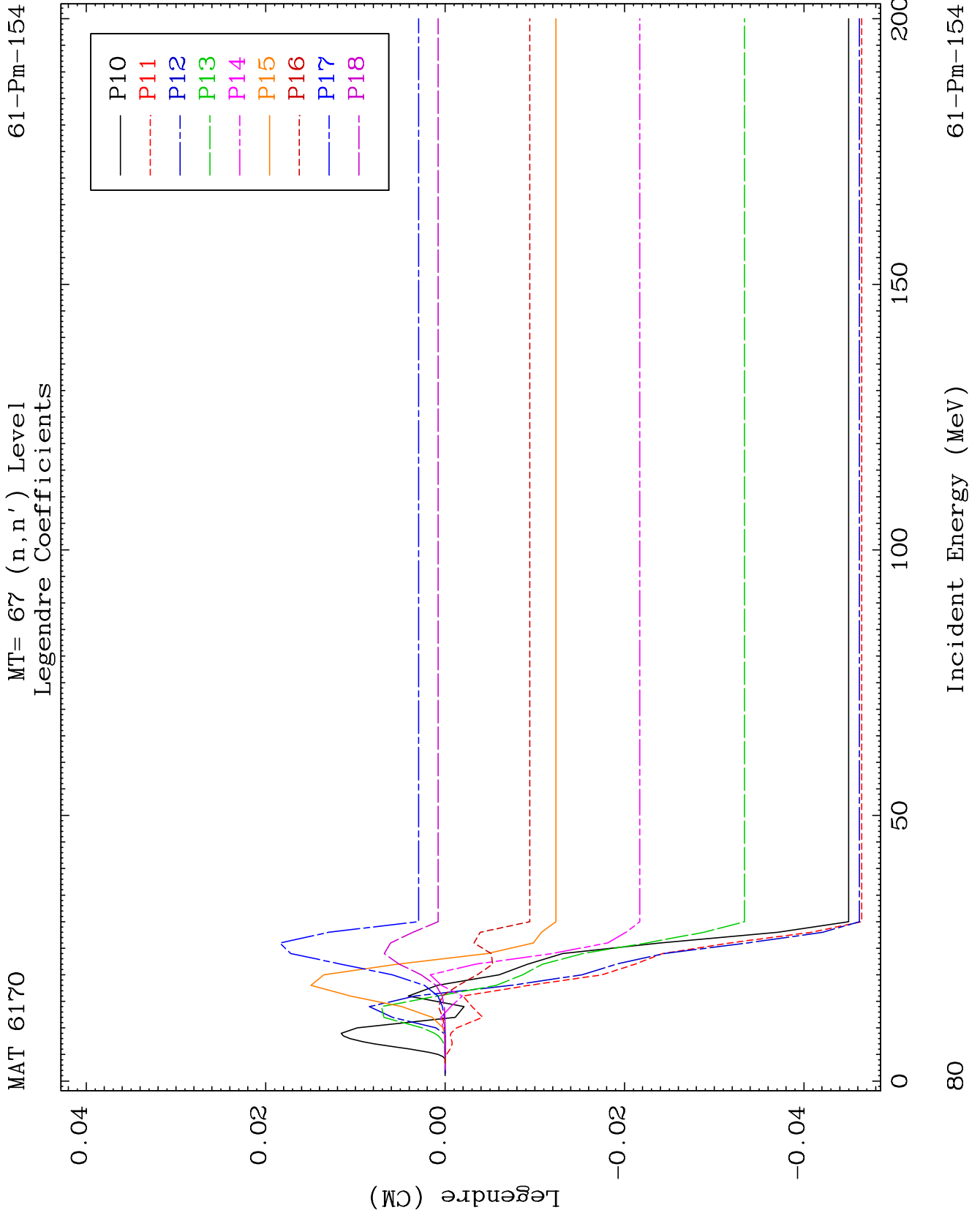


79

Incident Energy (MeV)

61-Pm-154

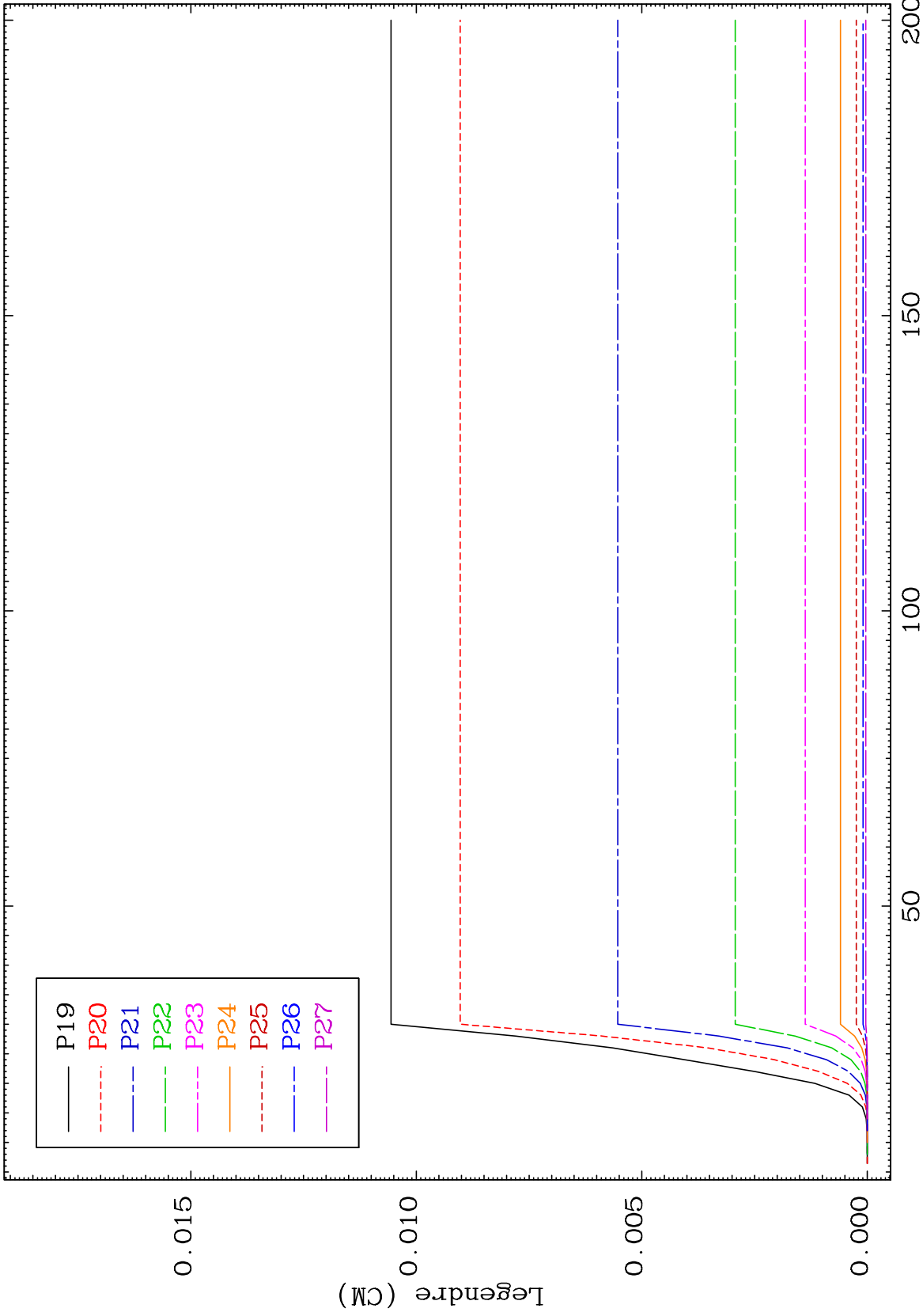




MAT 6170

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

61-Pm-154



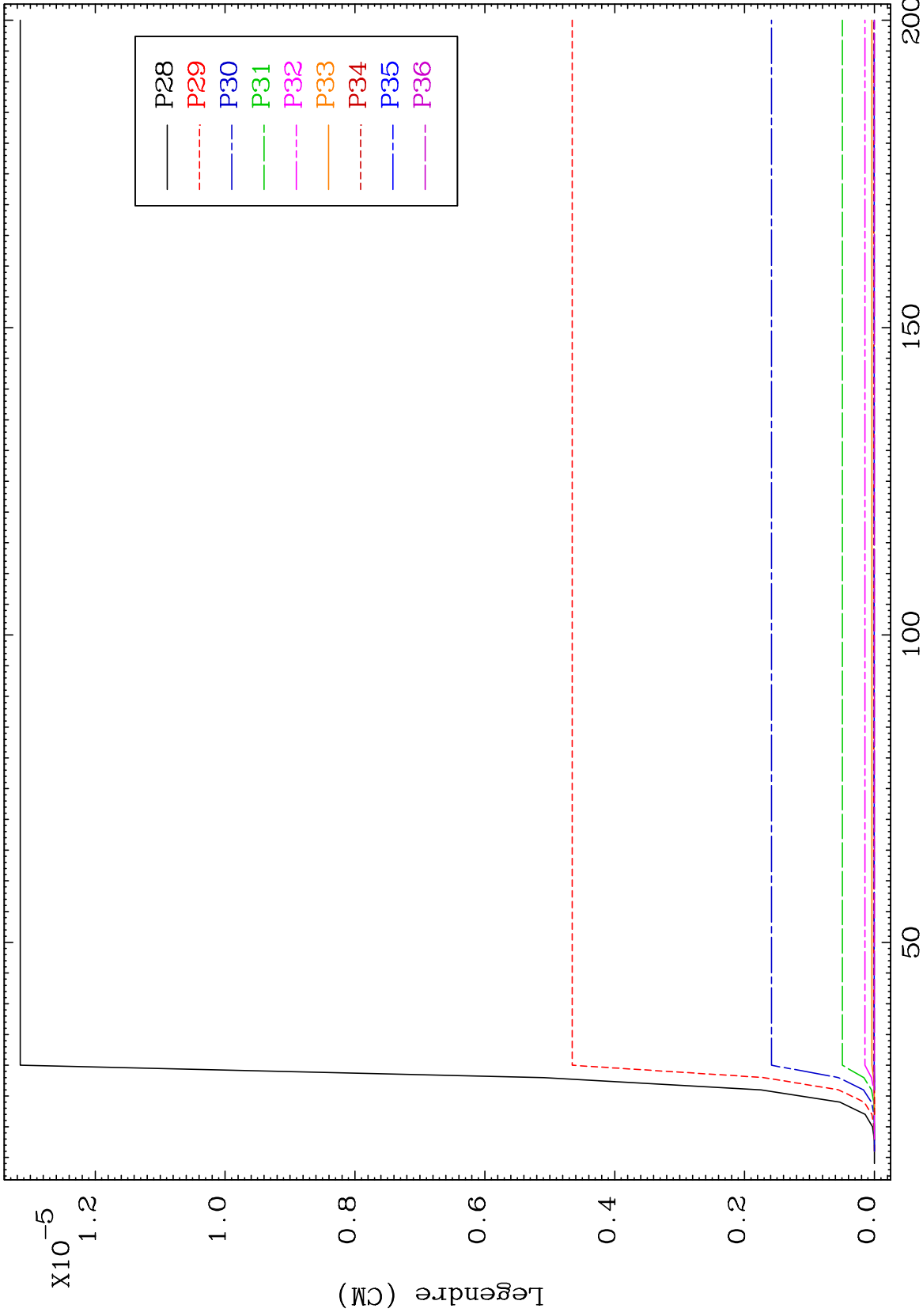
81

61-Pm-154

MAT 6170

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

61-Pm-154

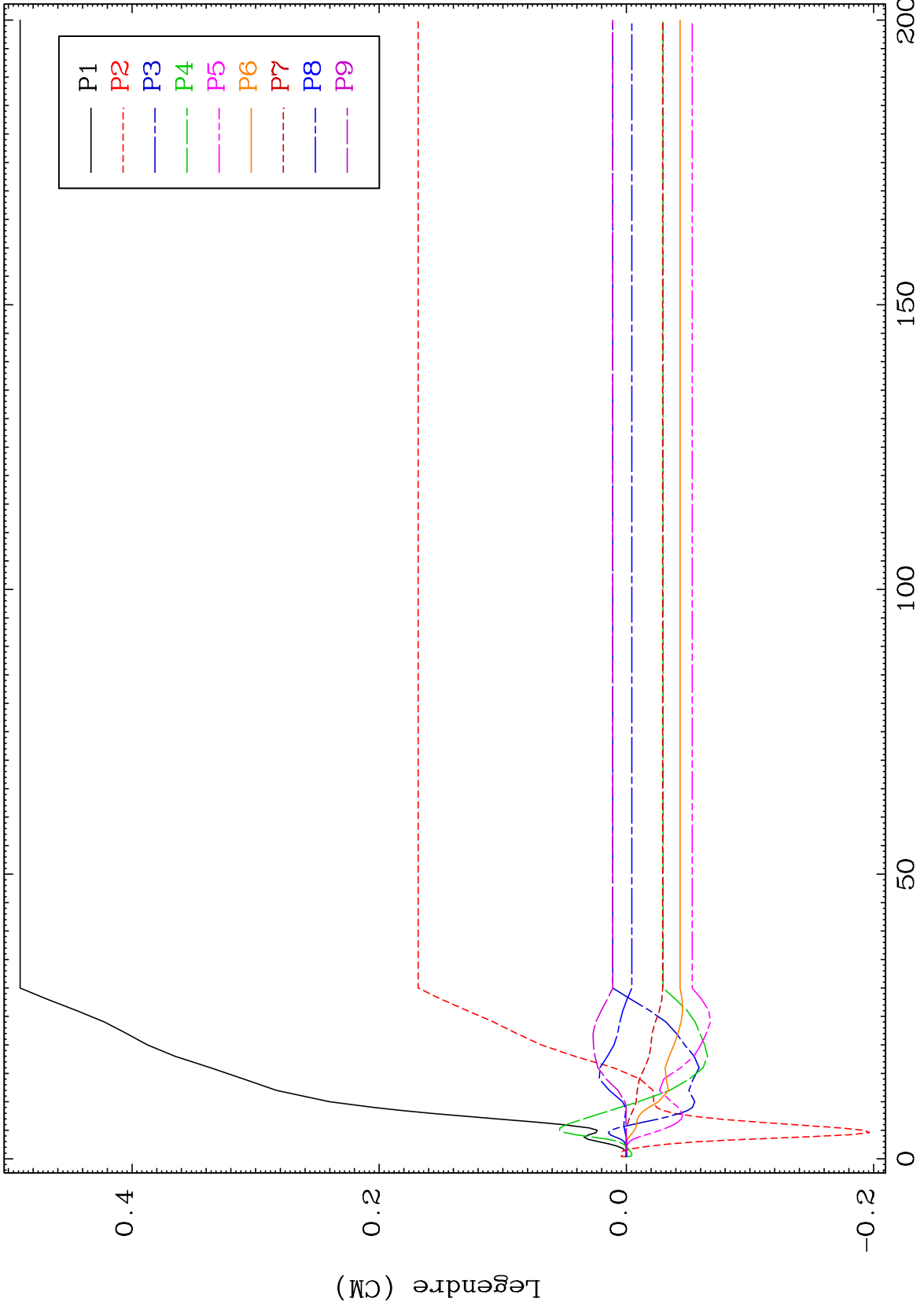


82

Incident Energy (MeV)

61-Pm-154

MAT 6170 MT= 68 (n,n') Level Legendre Coefficients 61-Pm-154

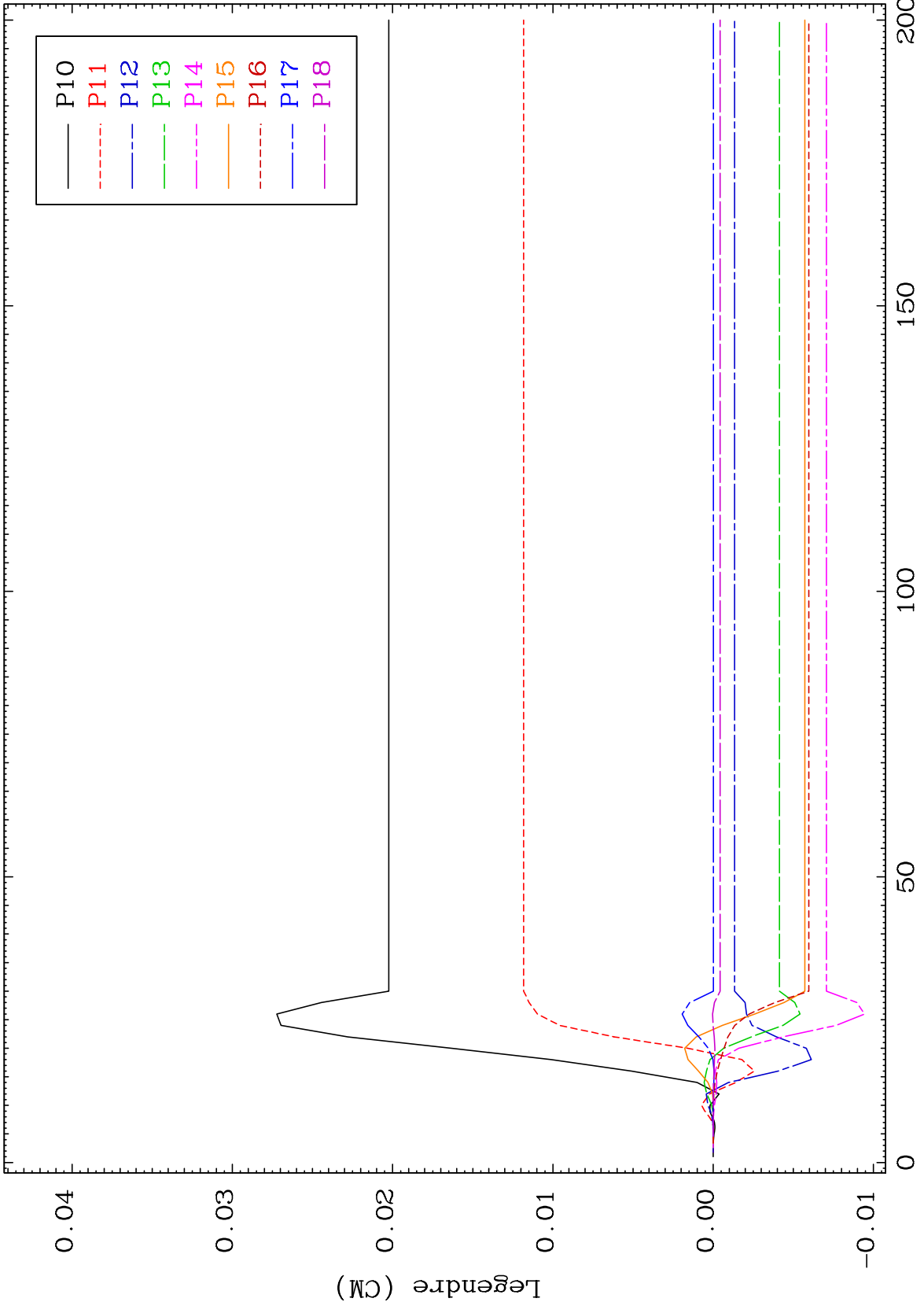


83 61-Pm-154

MAT 6170

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

61-Pm-154



84

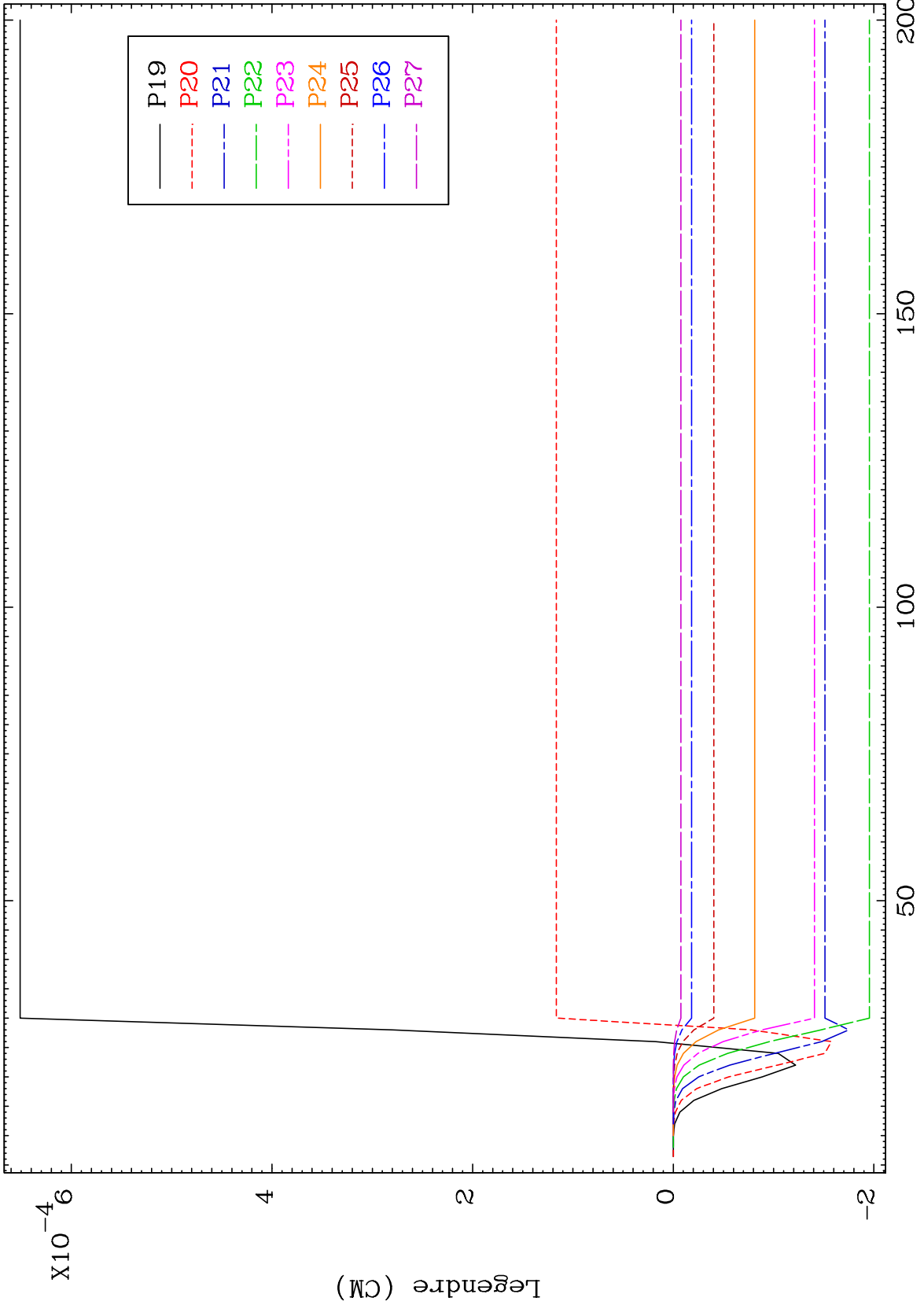
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



85

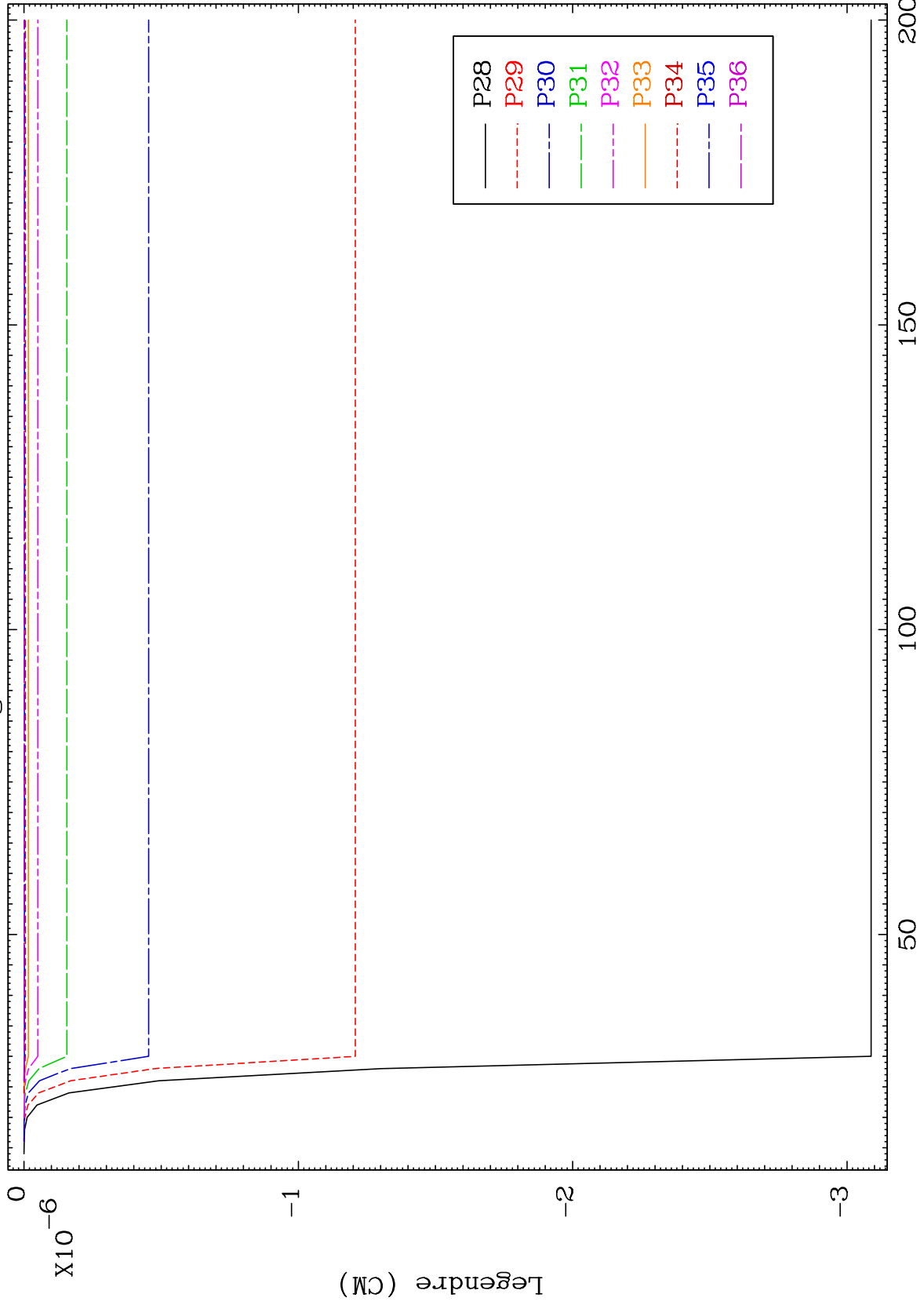
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

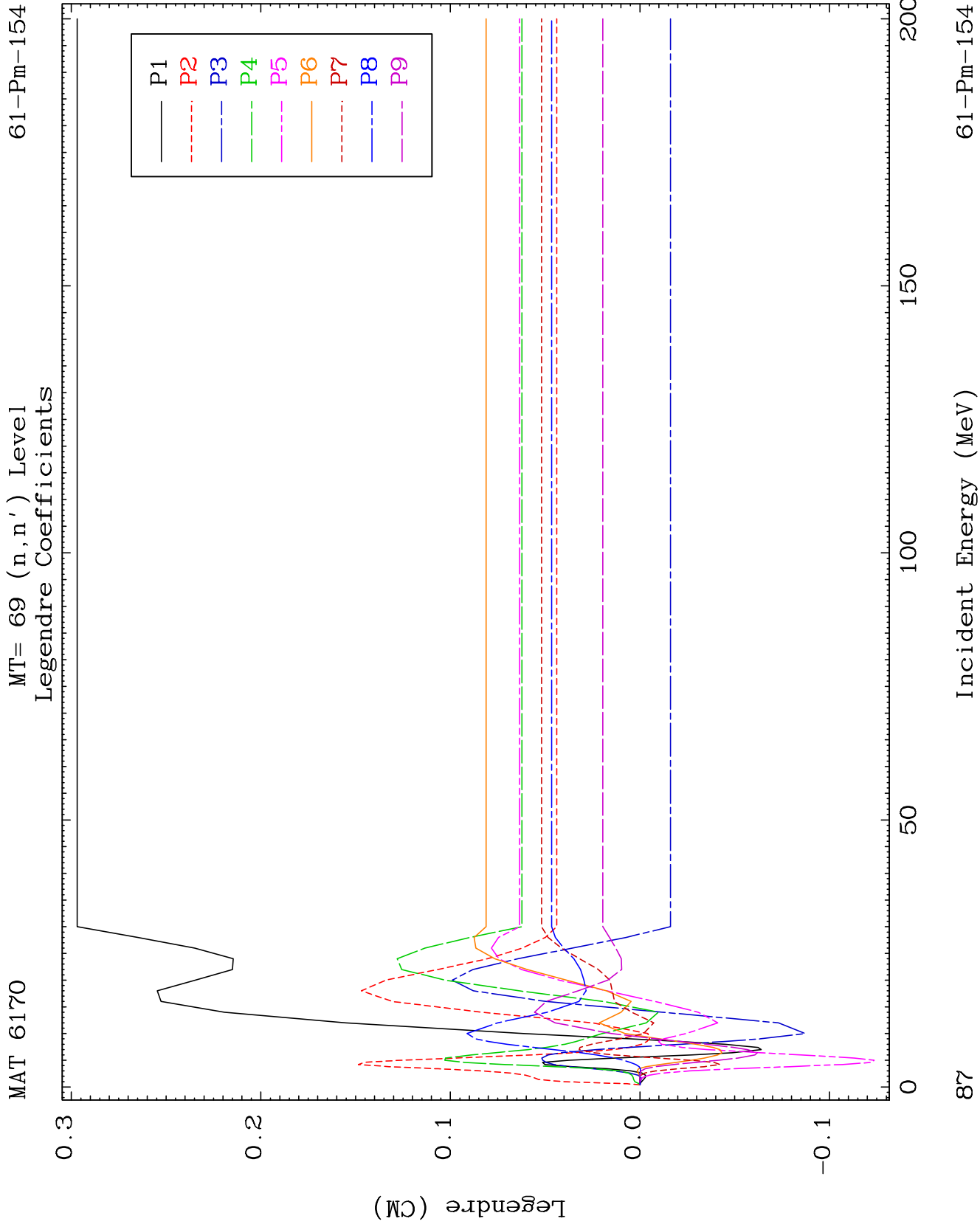
61-Pm-154



61-Pm-154

Incident Energy (MeV)

86

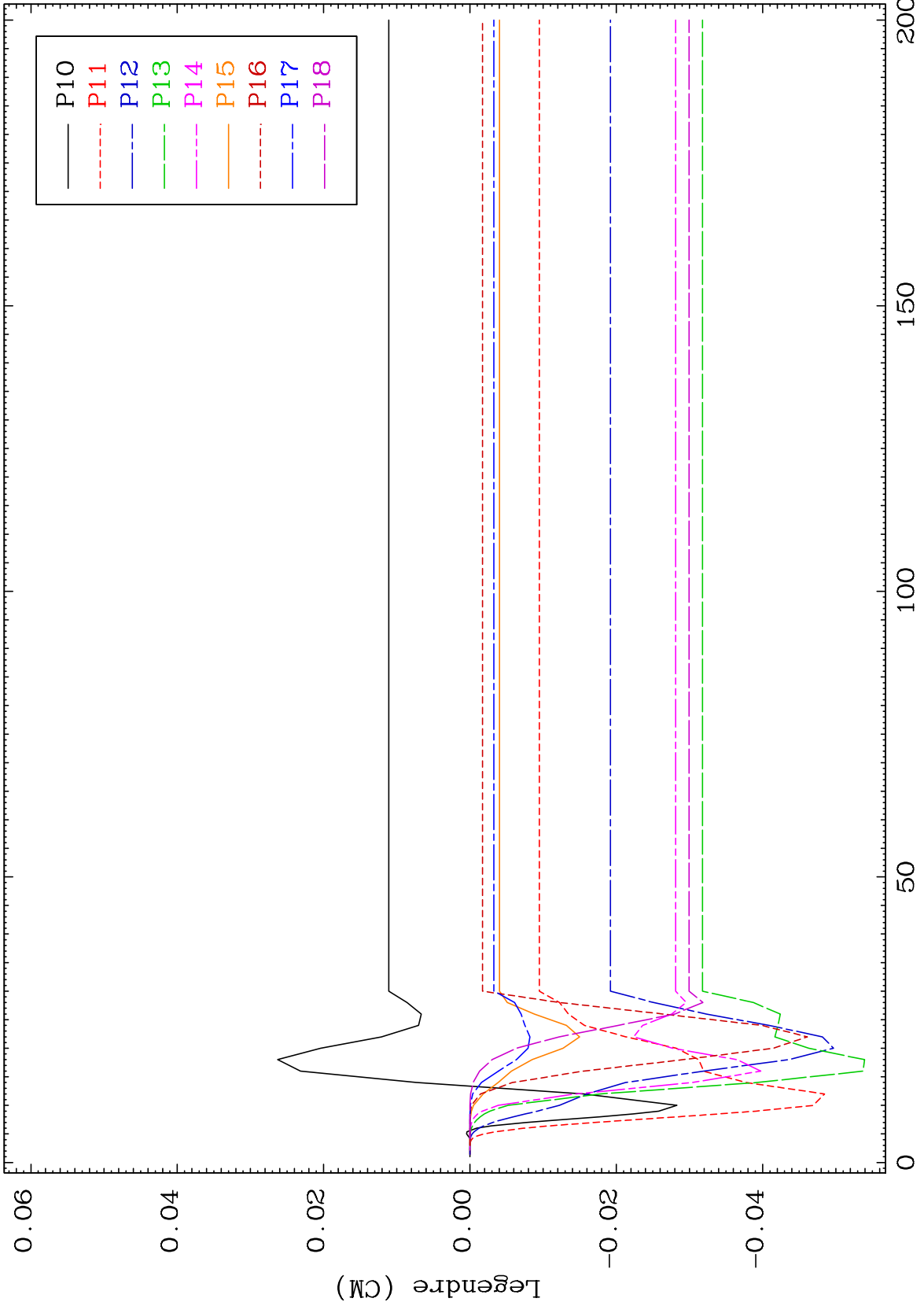




MAT 6170

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

61-Pm-154



88

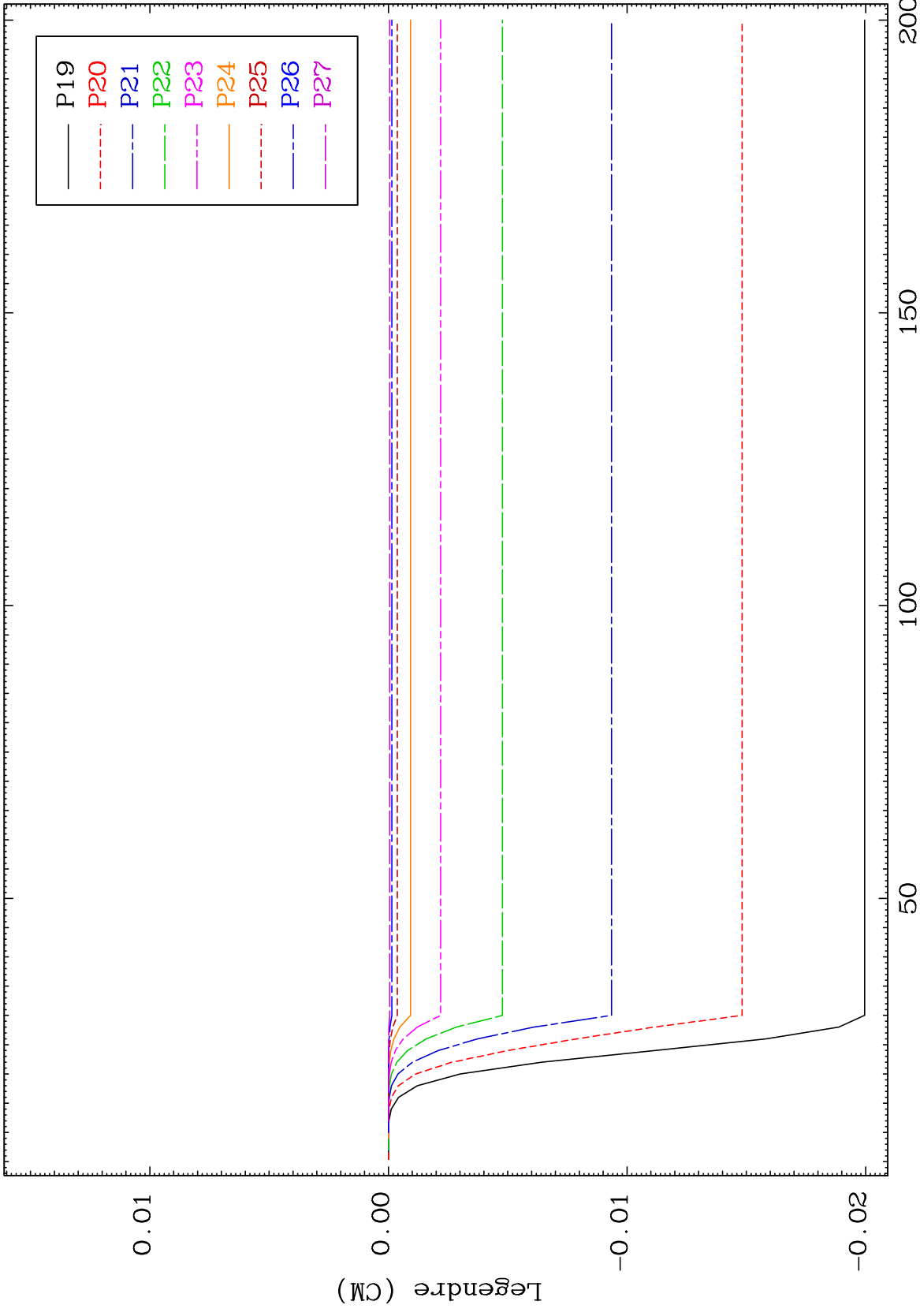
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

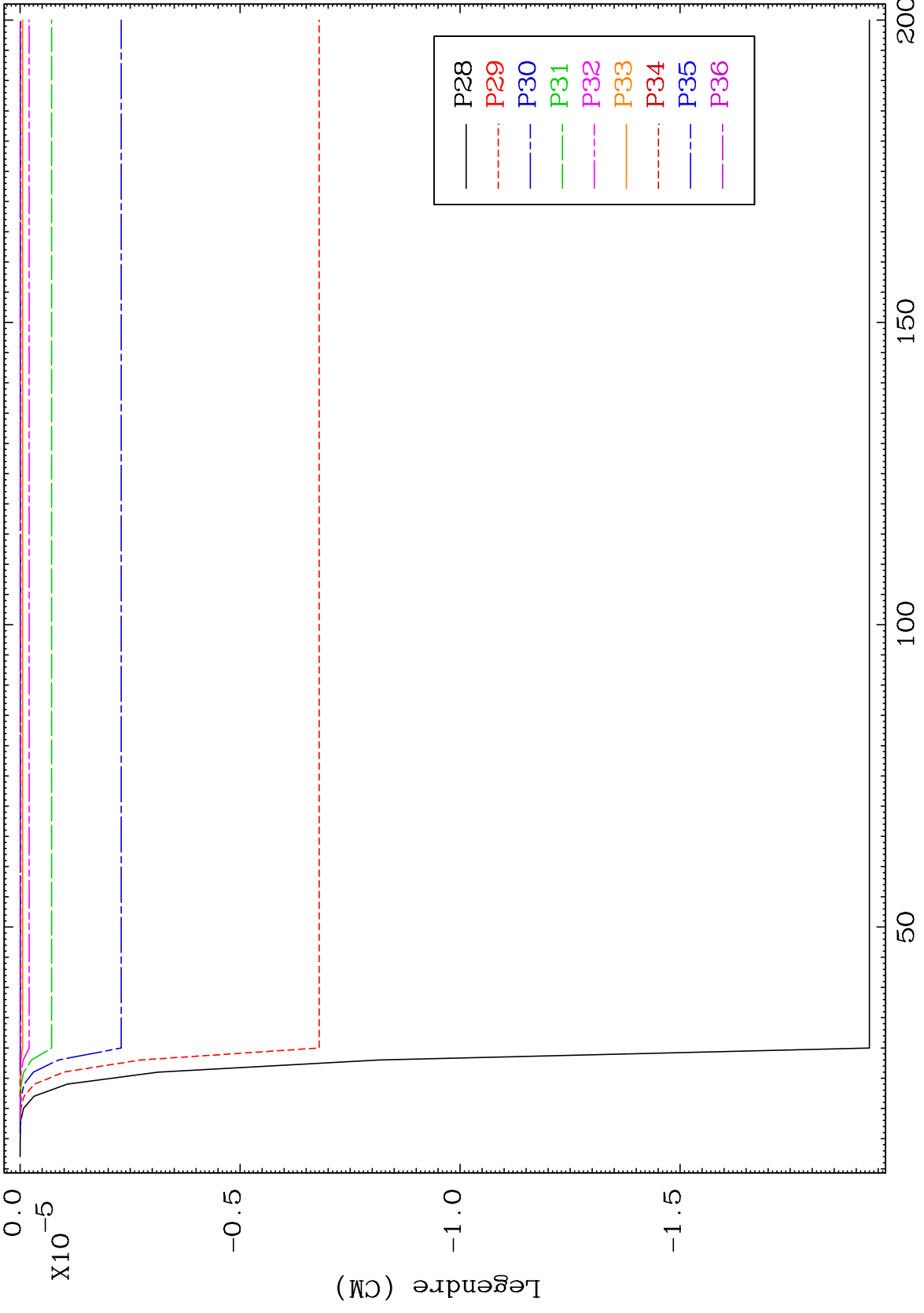
61-Pm-154



89

61-Pm-154

MAT 6170 MT= 69 (n,n') Level Legendre Coefficients 61-Pm-154

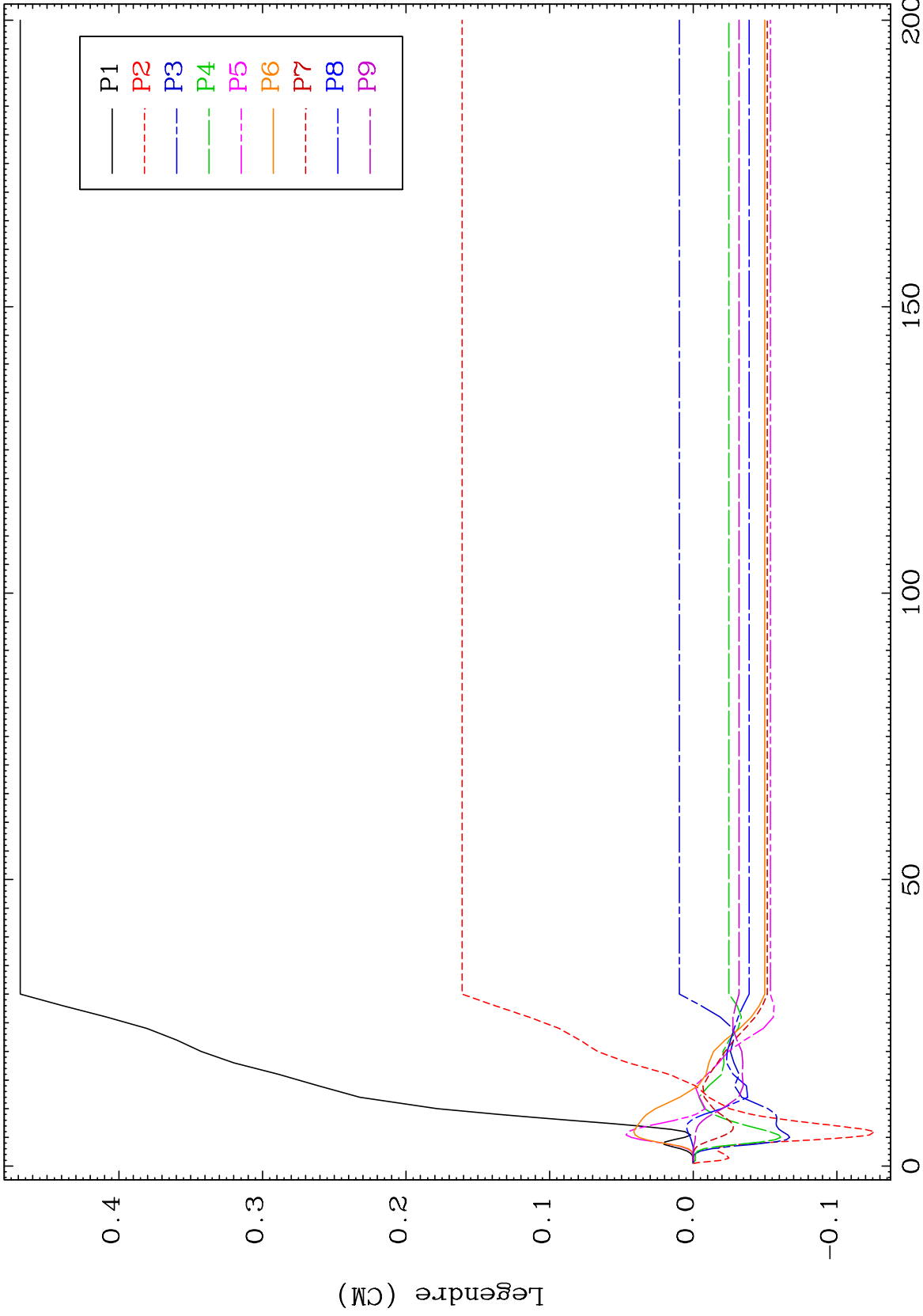


90 50 100 150 200 Incident Energy (MeV) 61-Pm-154

MAT 6170

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

61-Pm-154

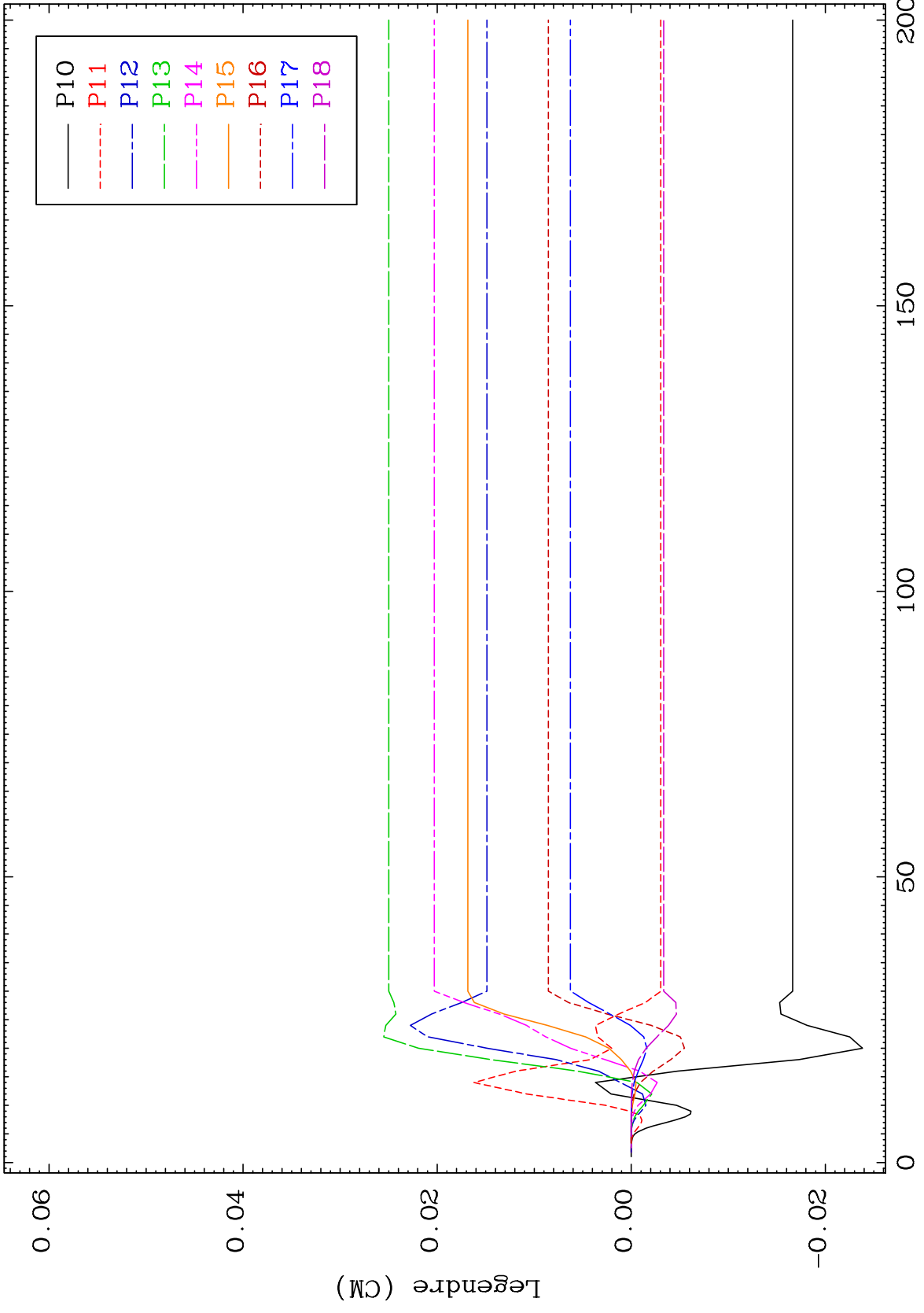


91

Incident Energy (MeV)

61-Pm-154

MAT 6170 MT= 70 (n,n') Level Legendre Coefficients 61-Pm-154

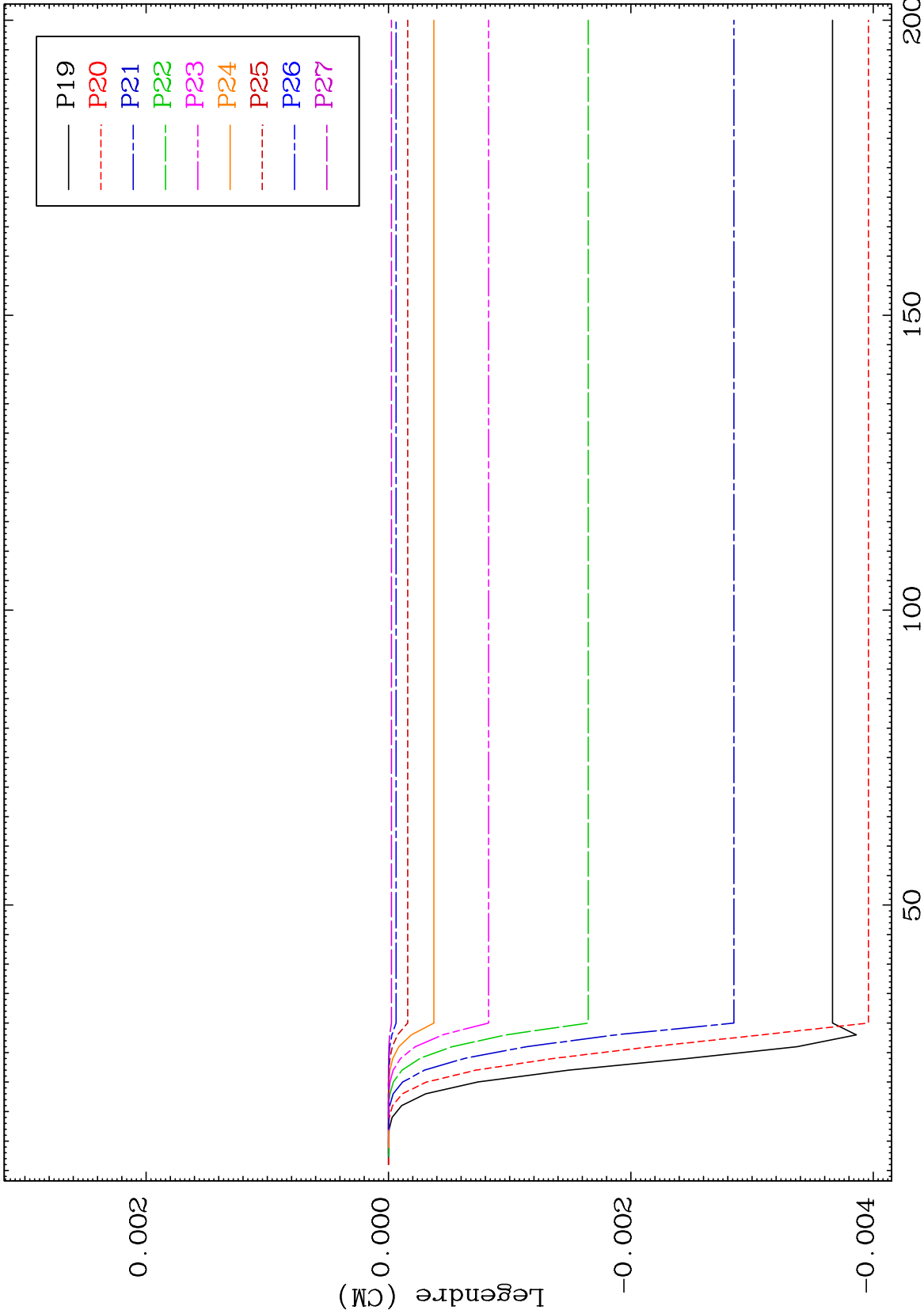


92 61-Pm-154

MAT 6170

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

61-Pm-154

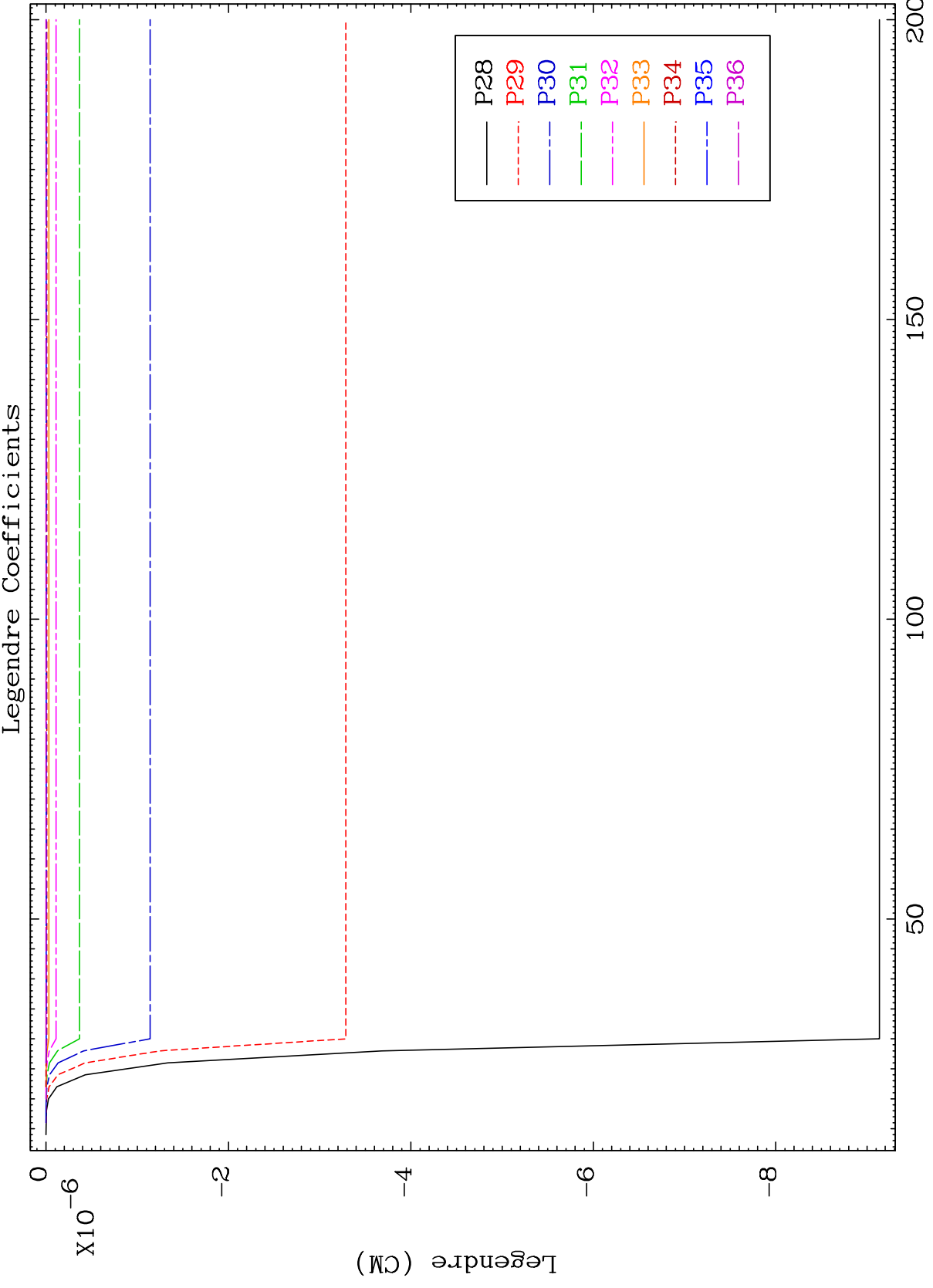


93

Incident Energy (MeV)

61-Pm-154

MAT 6170 MT= 70 (n,n') Level Legendre Coefficients 61-Pm-154

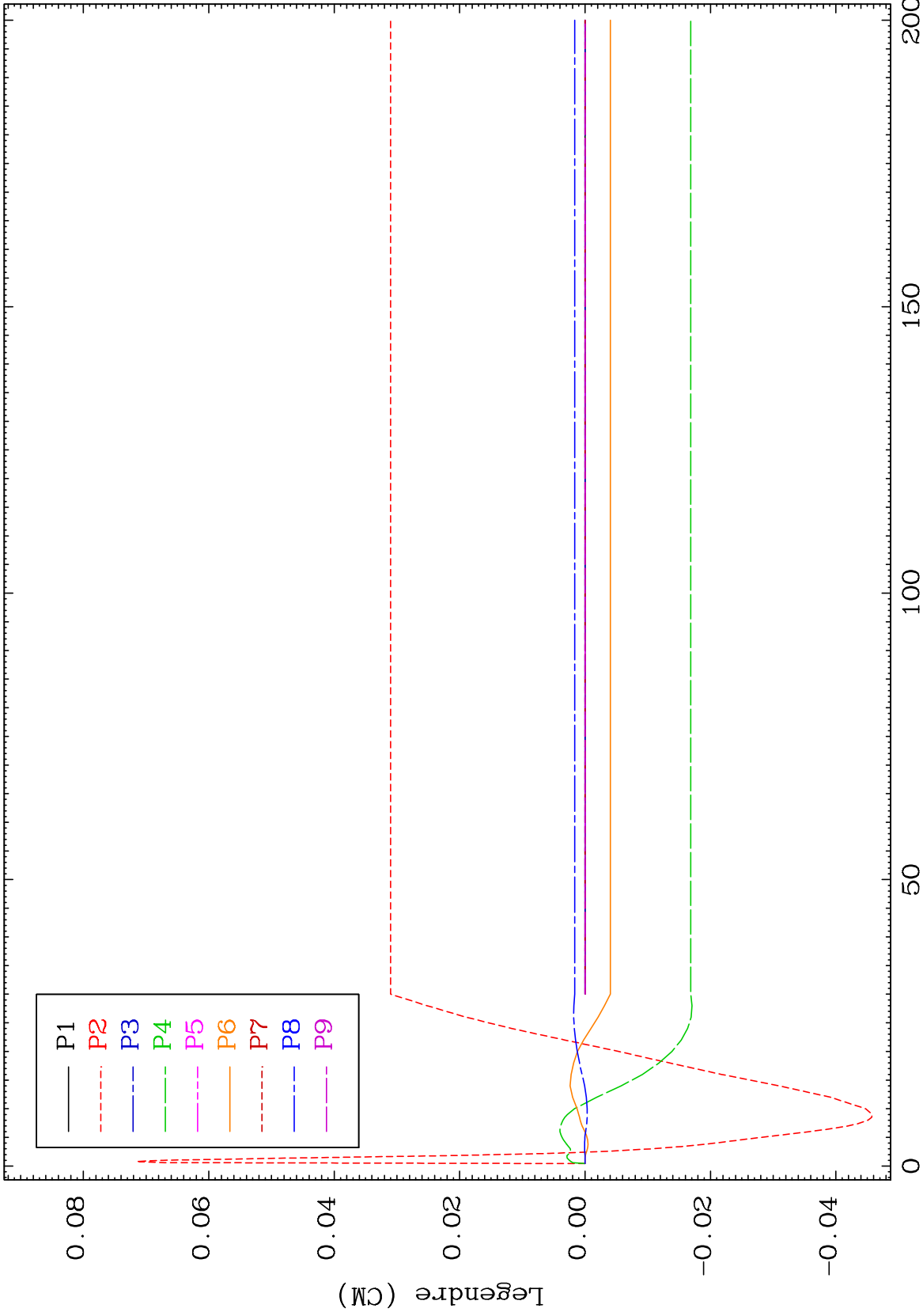


94 61-Pm-154

MAT 6170

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

61-Pm-154



95

Incident Energy (MeV)

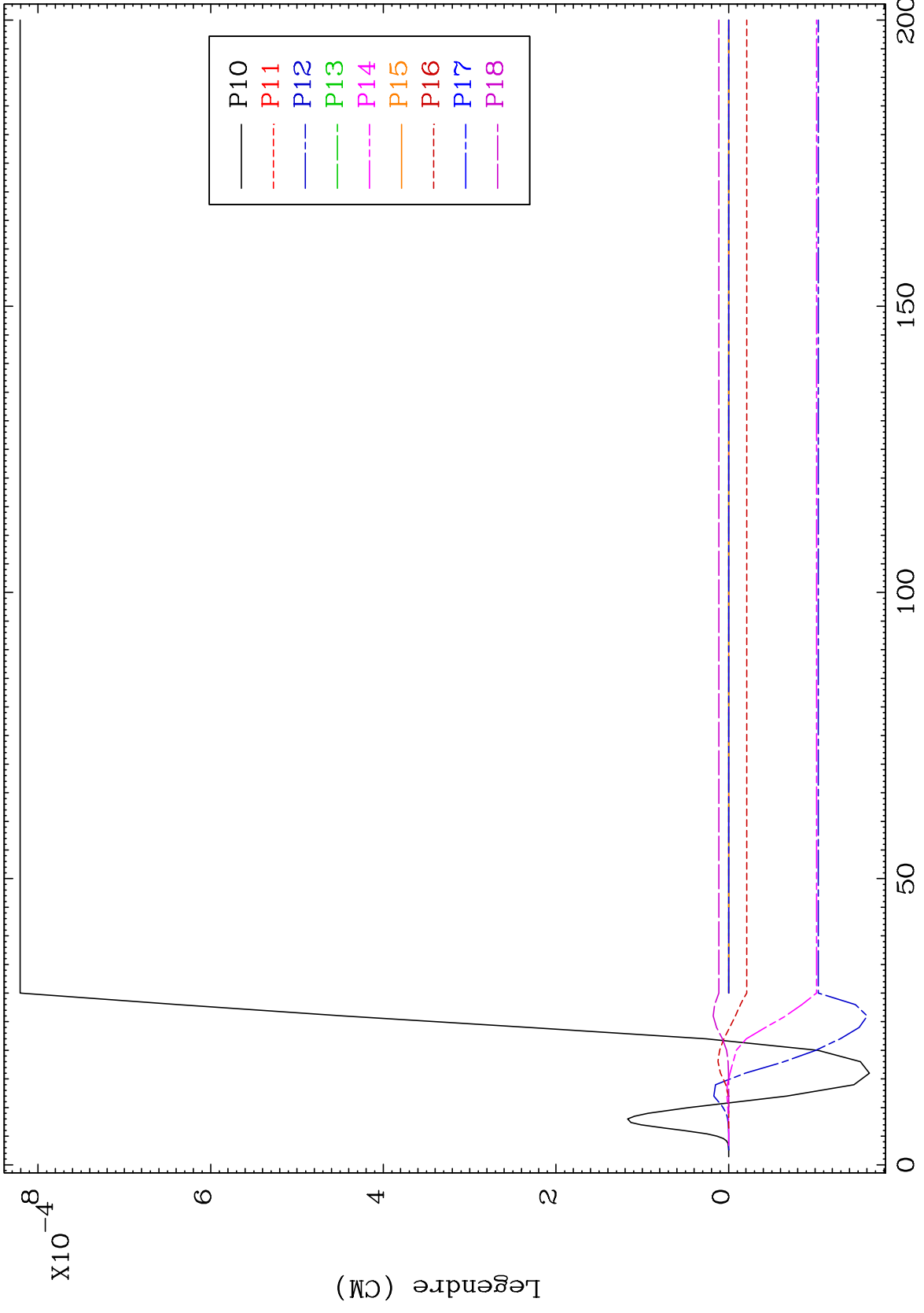
61-Pm-154



MAT 6170

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

61-Pm-154

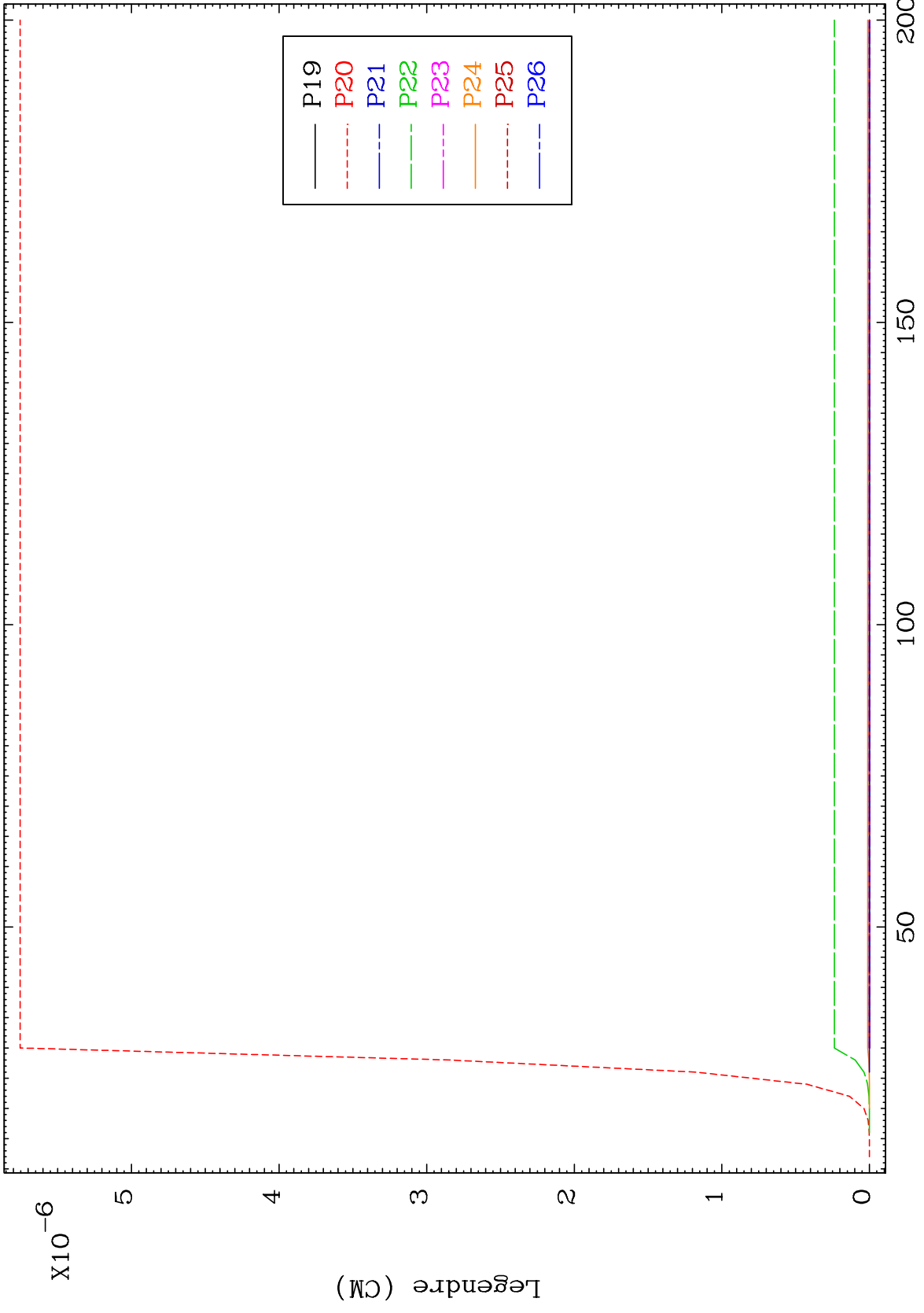


96

Incident Energy (MeV)

61-Pm-154

MAT 6170 MT= 71 (n,n') Level Legendre Coefficients 61-Pm-154

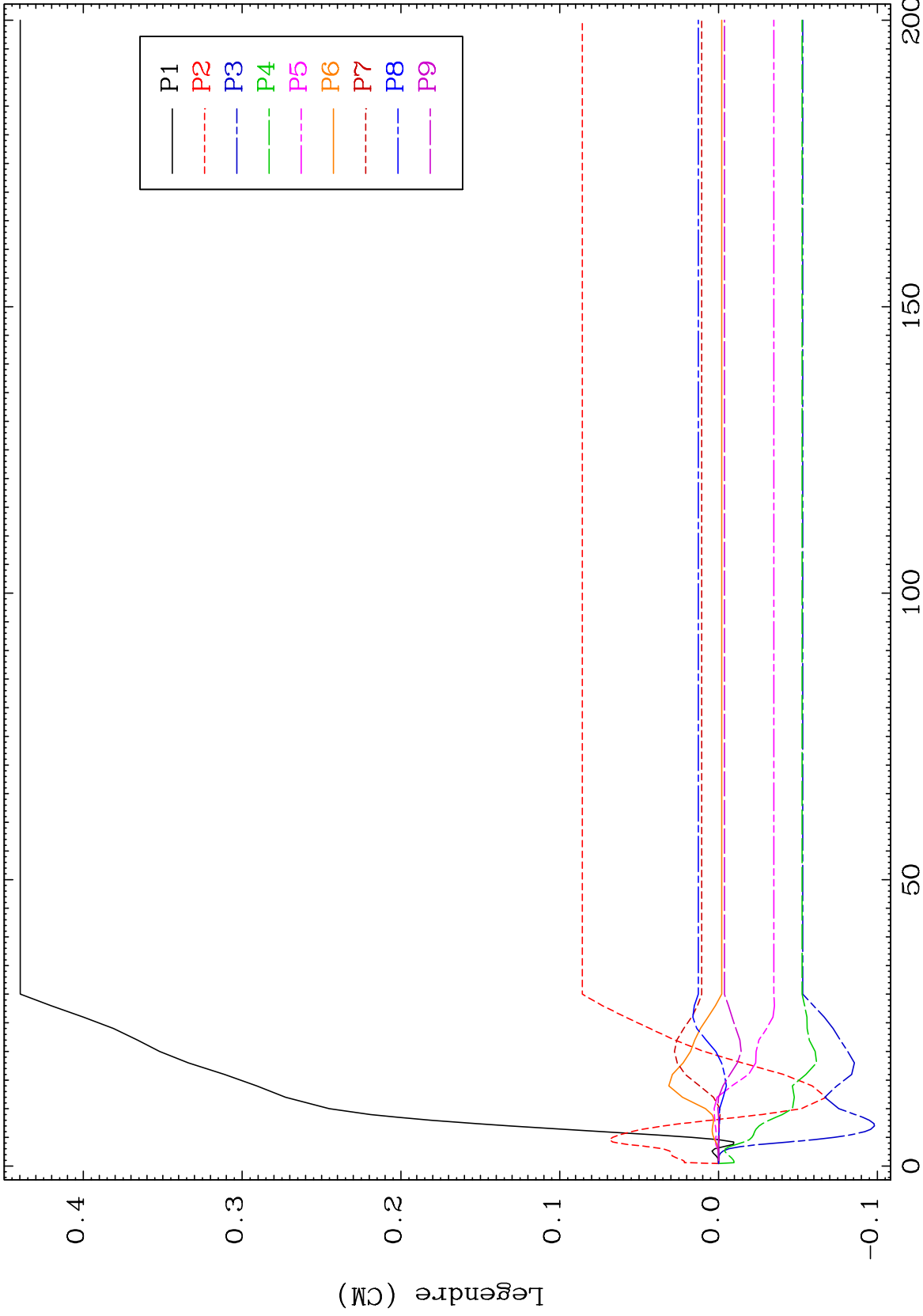


97 61-Pm-154

MAT 6170

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

61-Pm-154



98

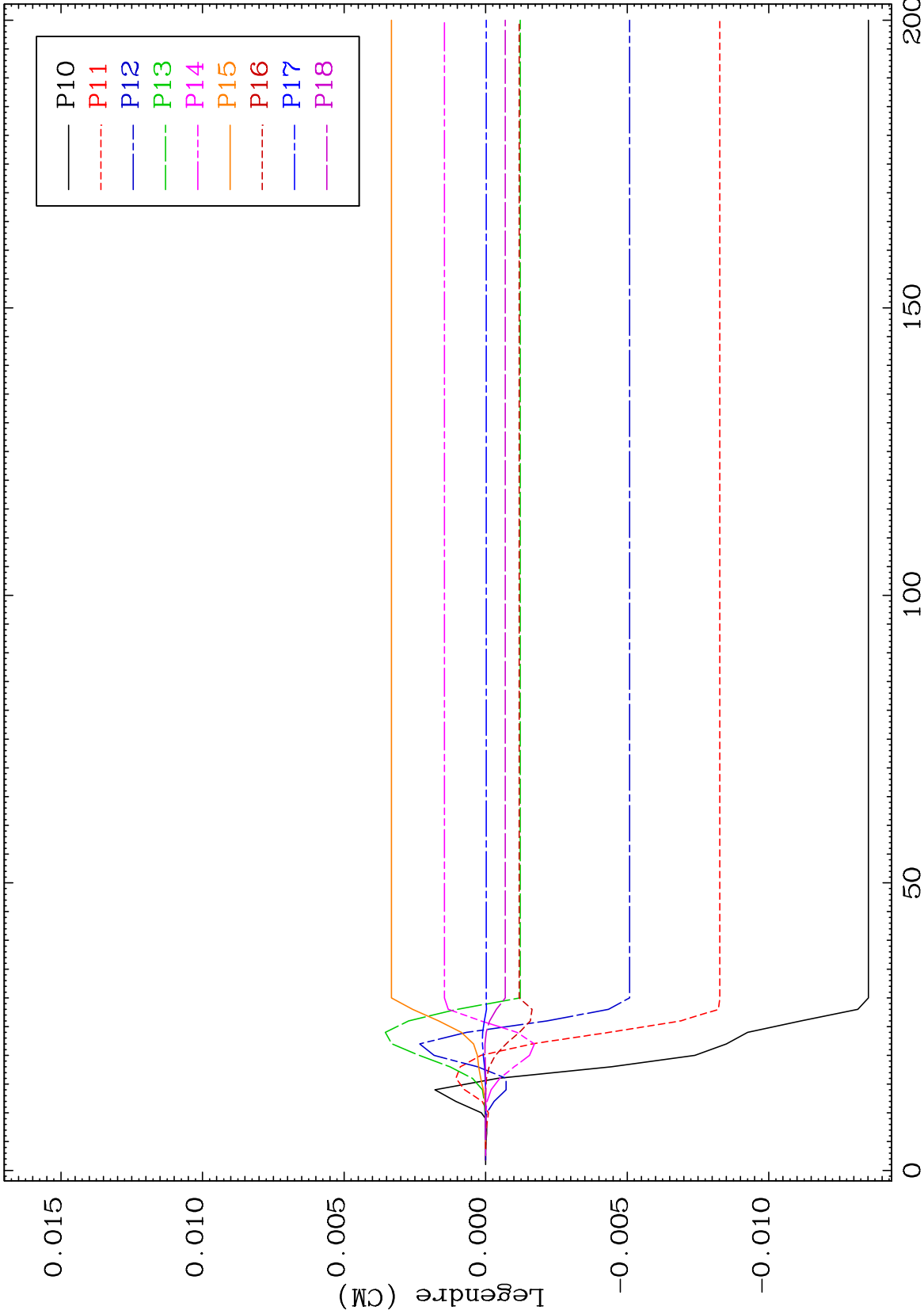
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154

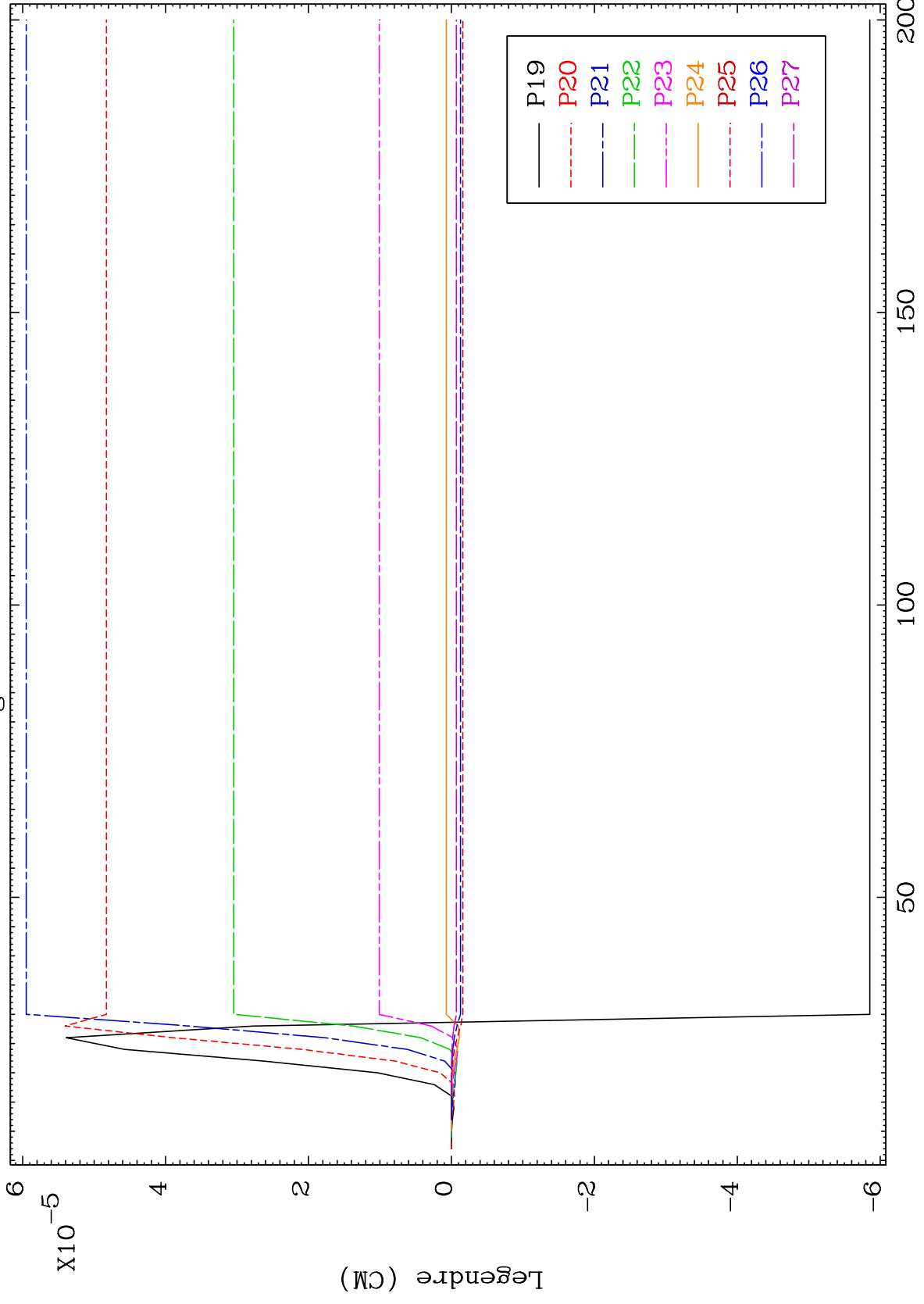


99

Incident Energy (MeV)

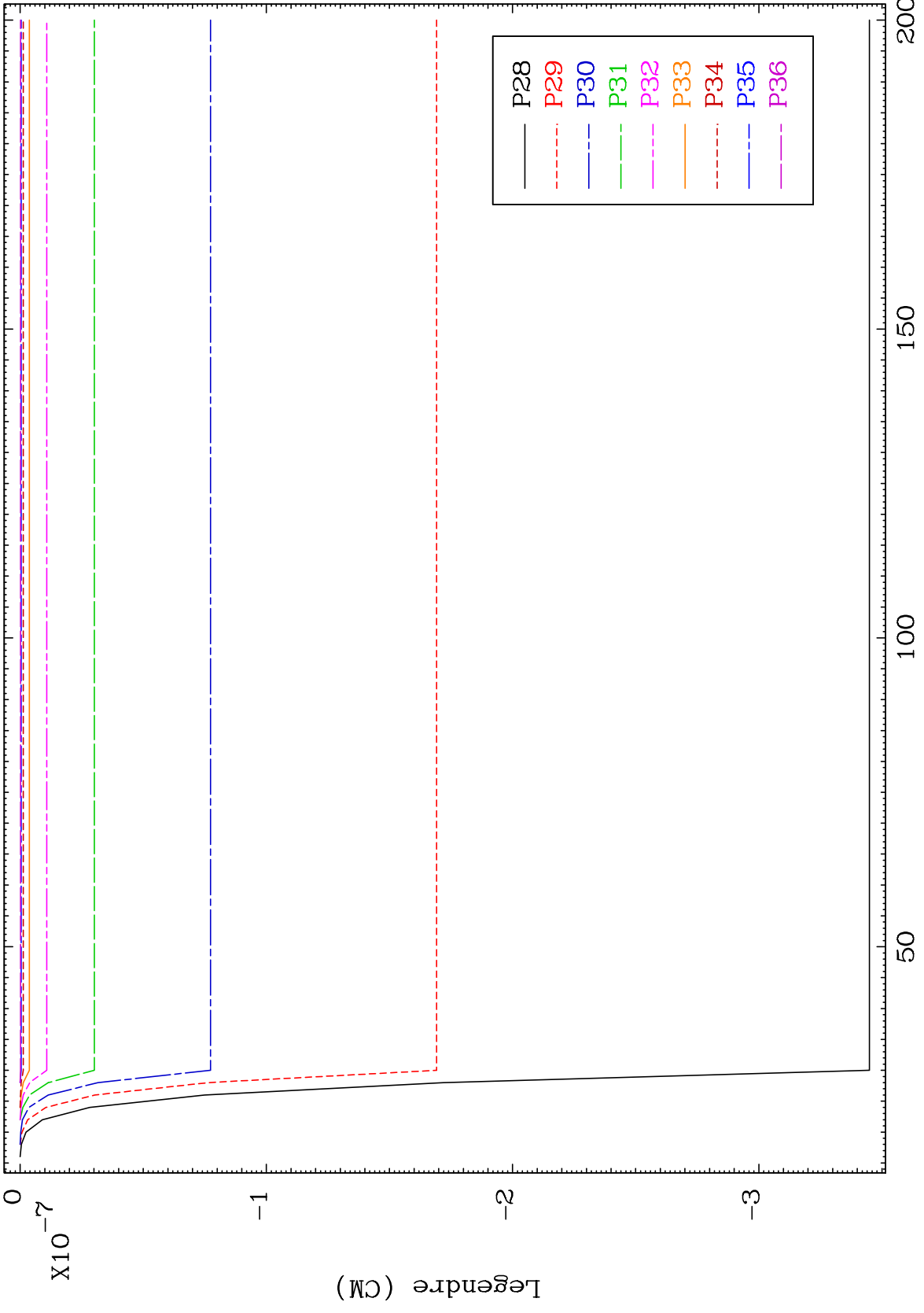
61-Pm-154

MAT 6170 MT= 72 (n,n') Level Legendre Coefficients 61-Pm-154



61-Pm-154

MAT 6170 MT= 72 (n,n') Level Legendre Coefficients 61-Pm-154

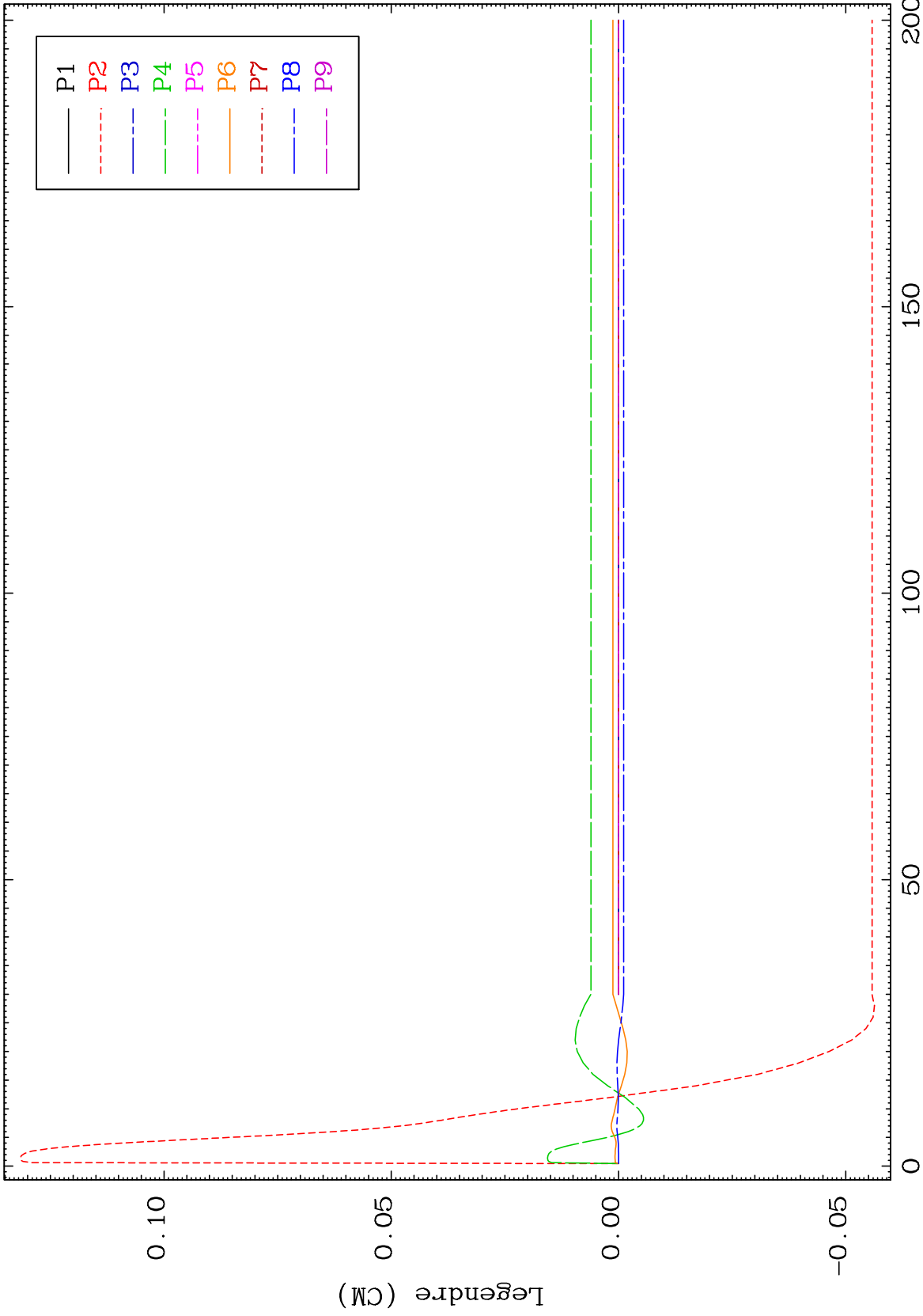


101 Incident Energy (MeV) 61-Pm-154

MAT 6170

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

61-Pm-154



102

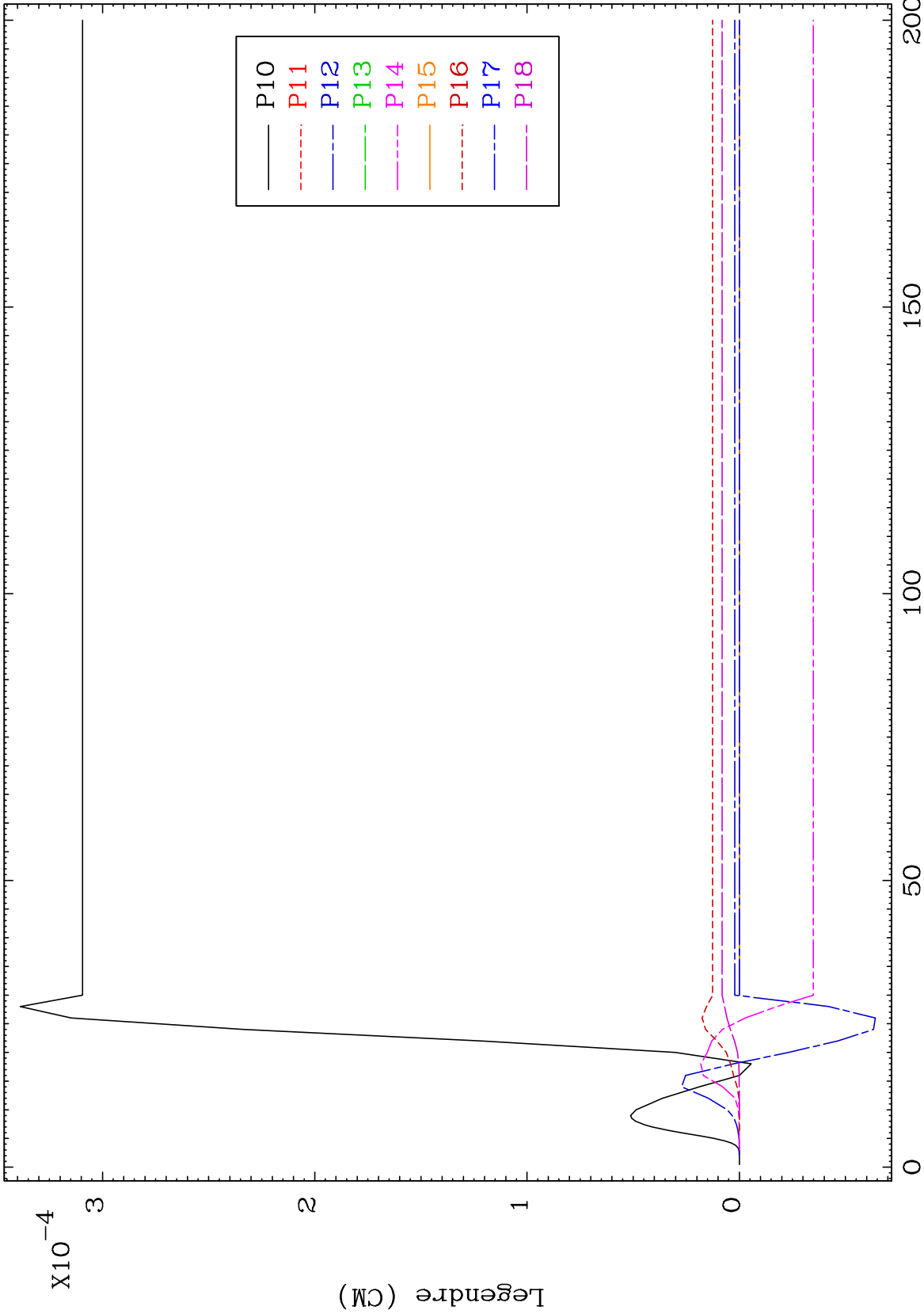
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154

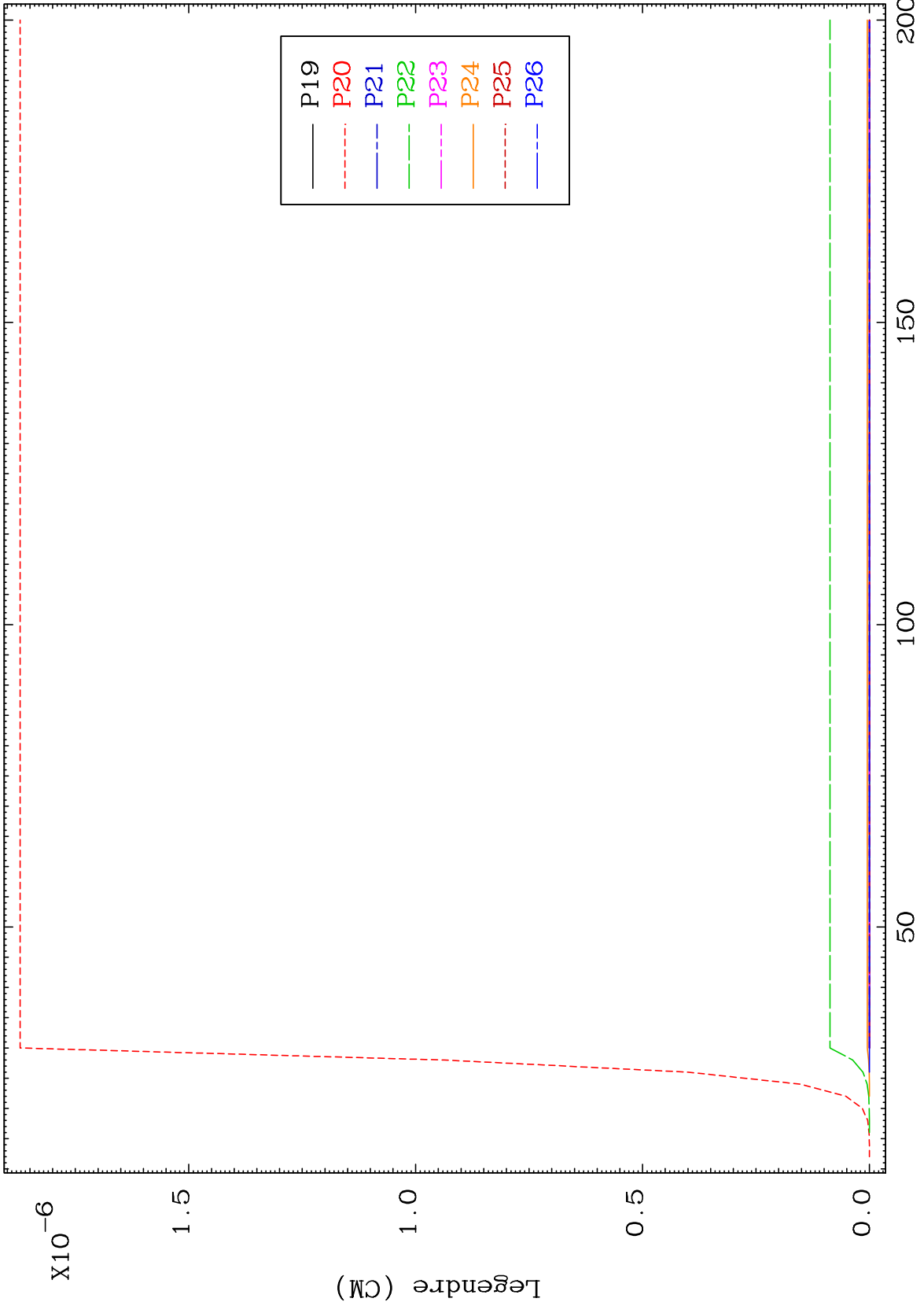


103

61-Pm-154

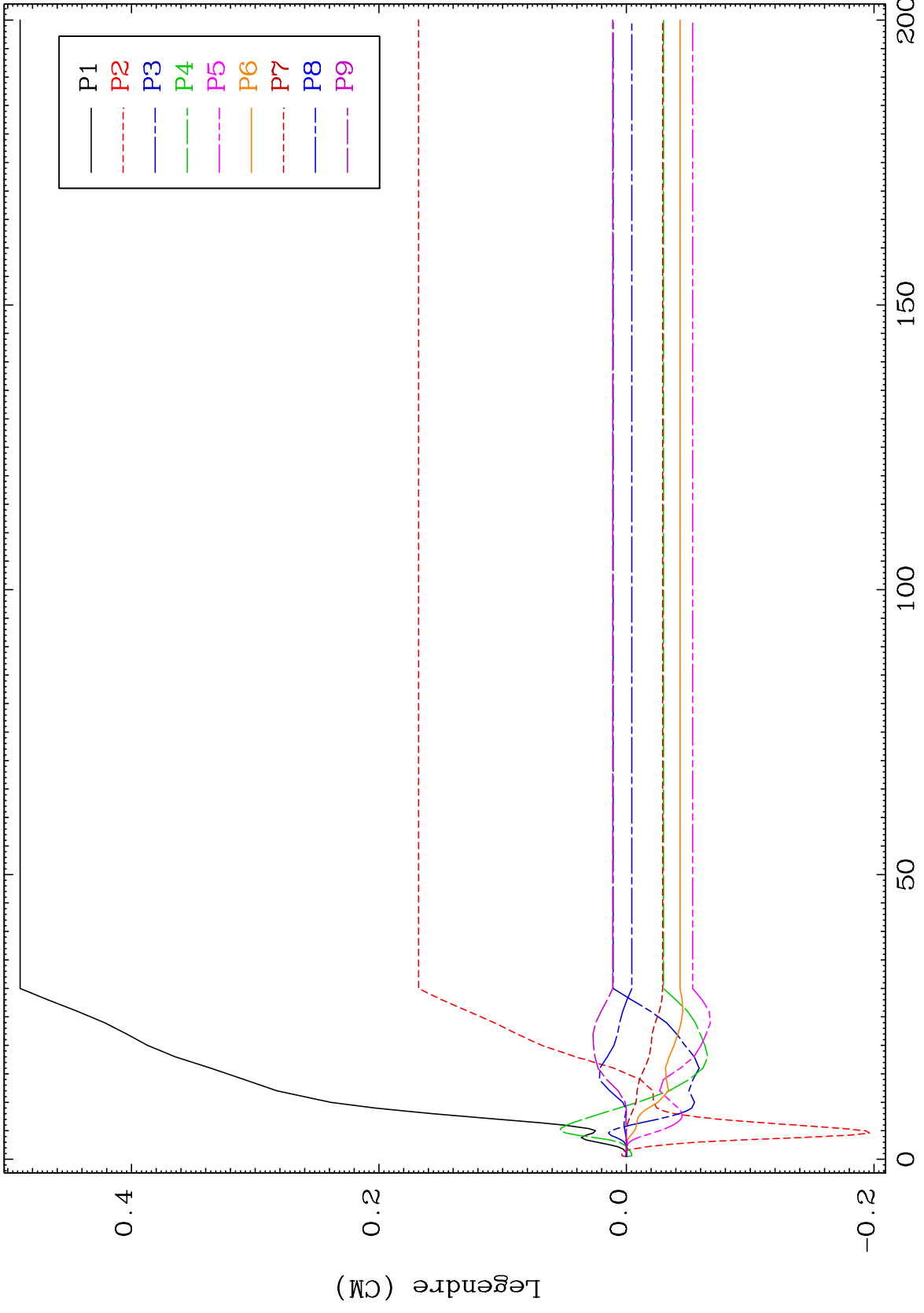


MAT 6170 MT= 73 (n,n') Level Legendre Coefficients 61-Pm-154



104 50 100 150 200 Incident Energy (MeV) 61-Pm-154

MAT 6170 MT= 74 (n,n') Level Legendre Coefficients 61-Pm-154

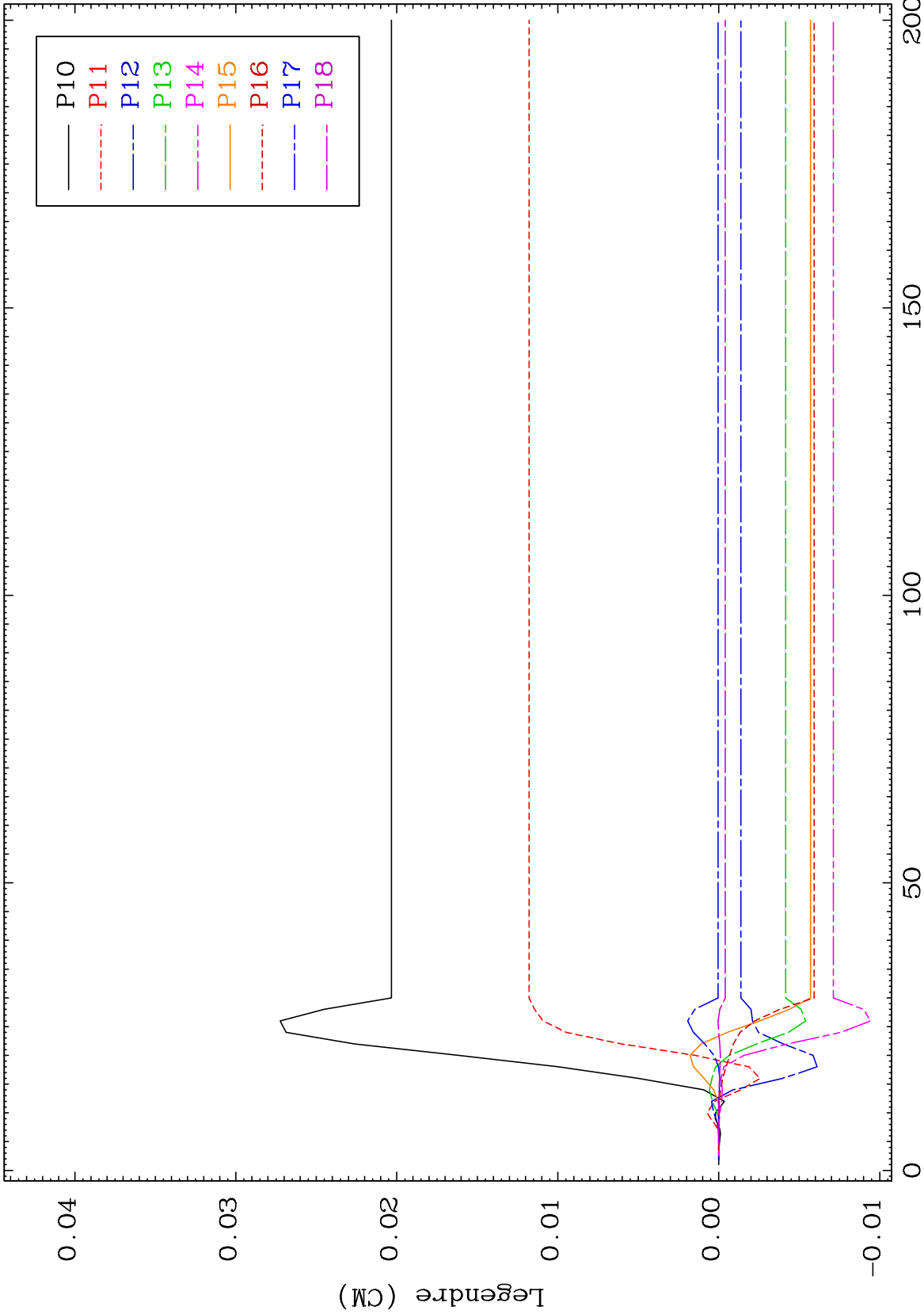


Legendre (CM) Incident Energy (MeV) 61-Pm-154

MAT 6170

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

61-Pm-154



106

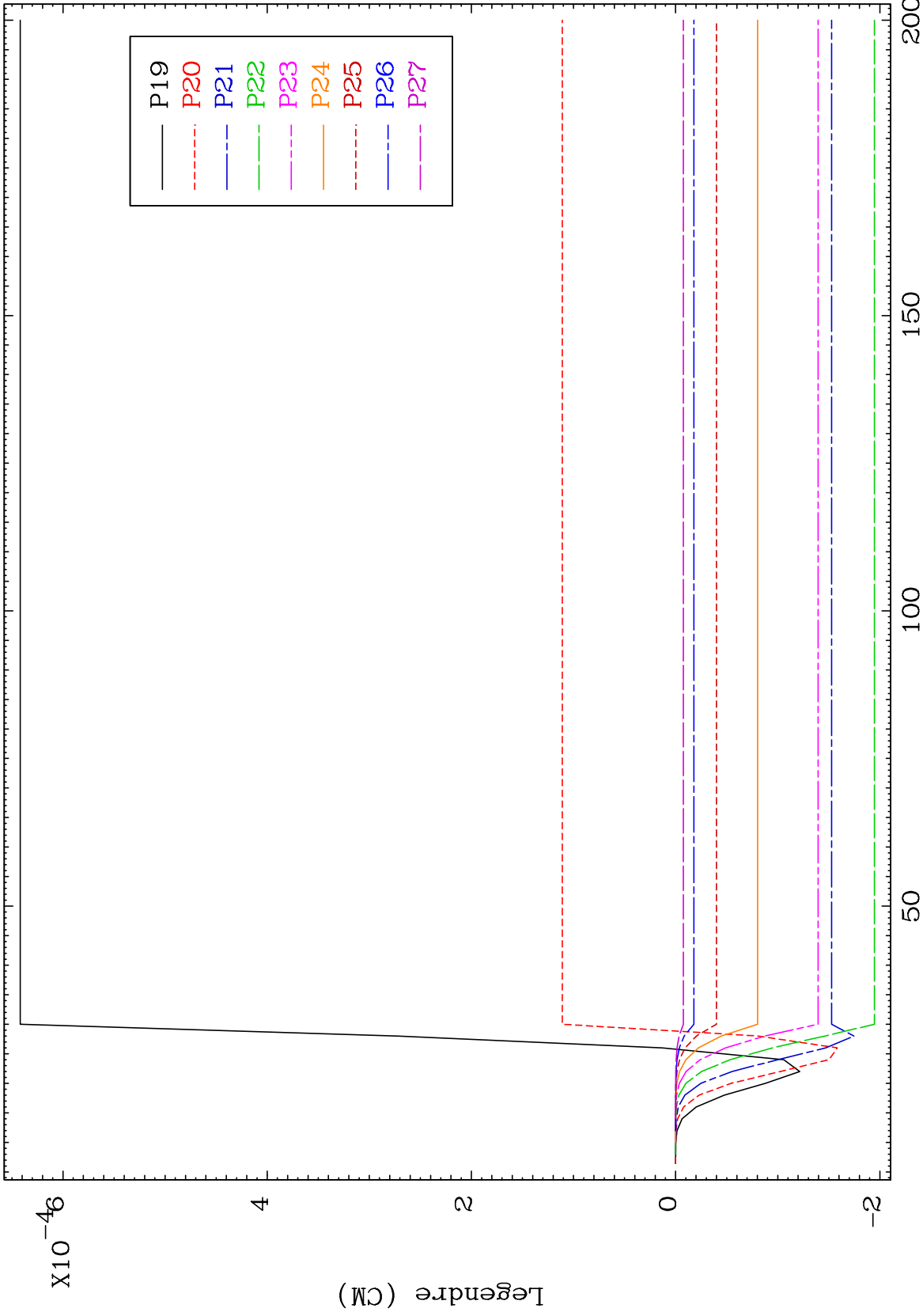
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

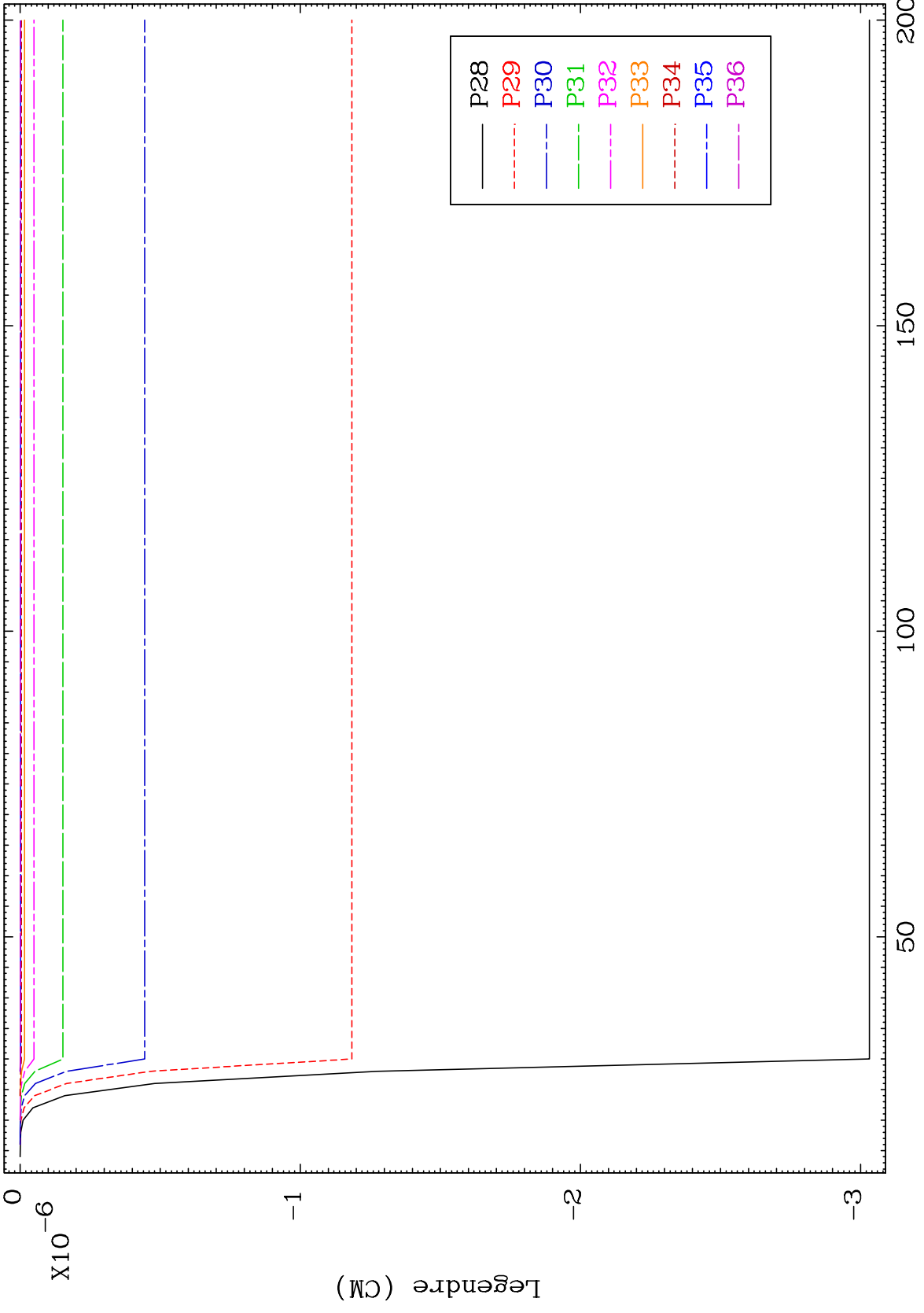
61-Pm-154



107

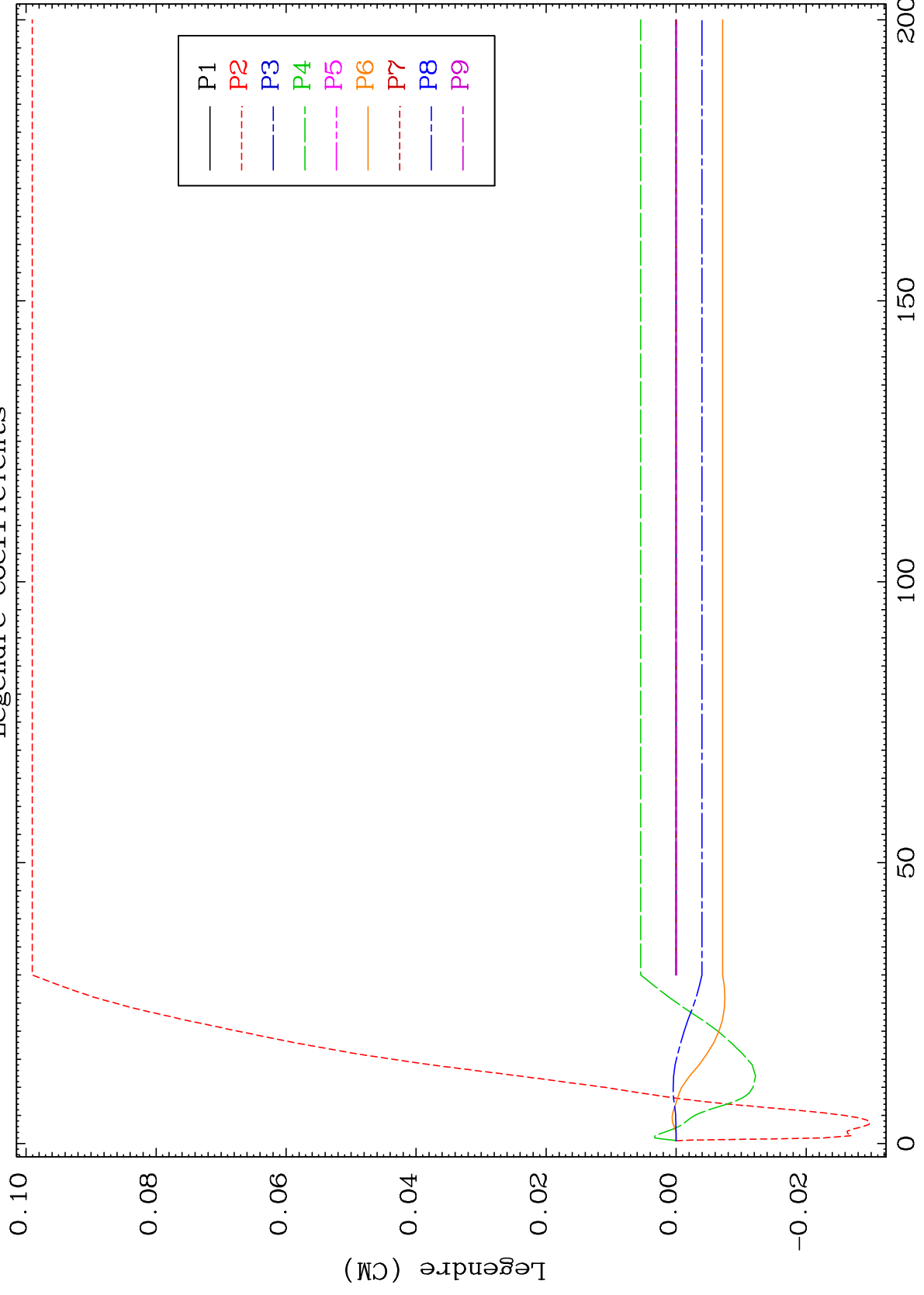
61-Pm-154

MAT 6170 MT= 74 (n,n') Level Legendre Coefficients 61-Pm-154



108 61-Pm-154

MAT 6170 MT= 75 (n,n') Level Legendre Coefficients 61-Pm-154

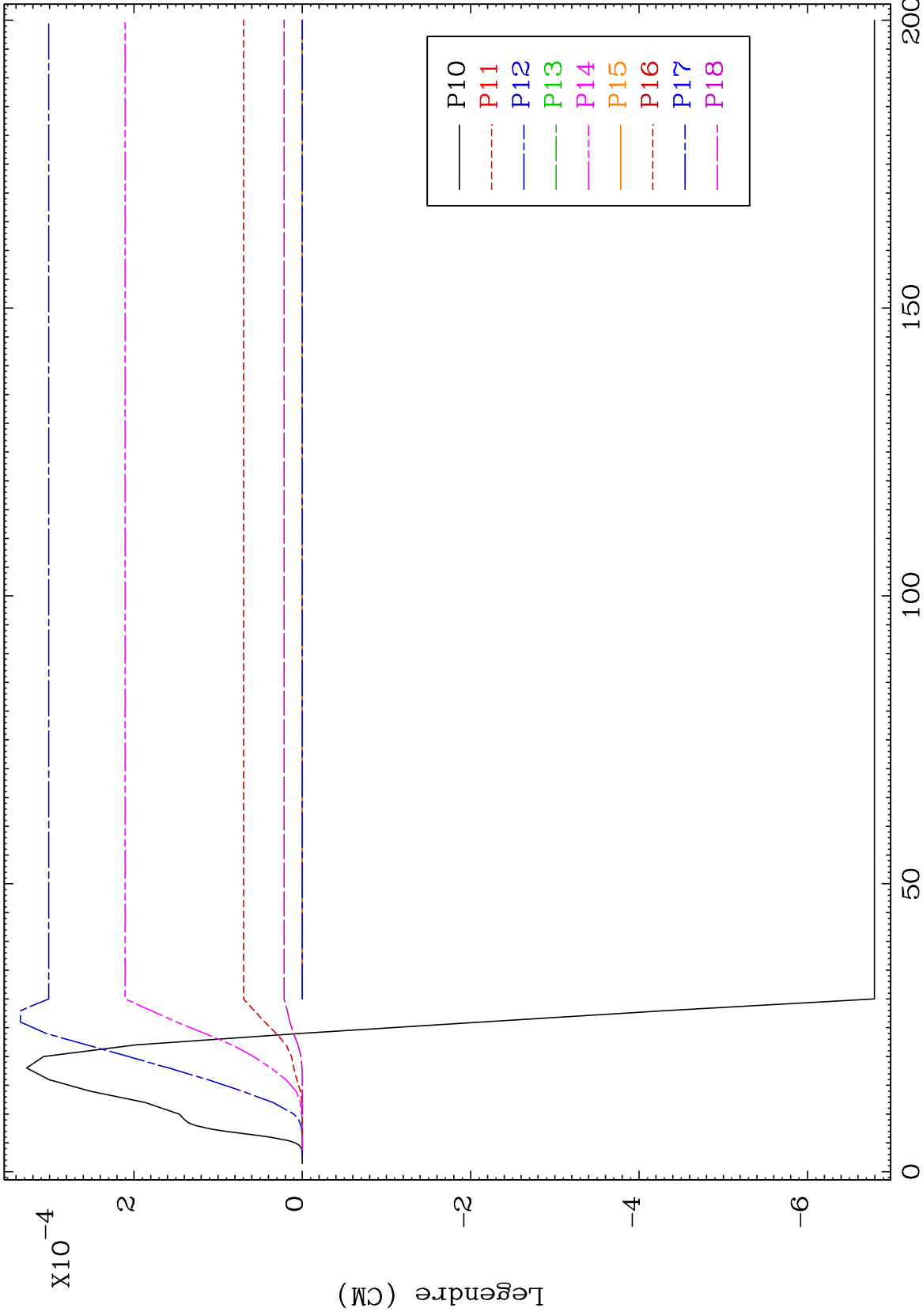


109 61-Pm-154

MAT 6170

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

61-Pm-154

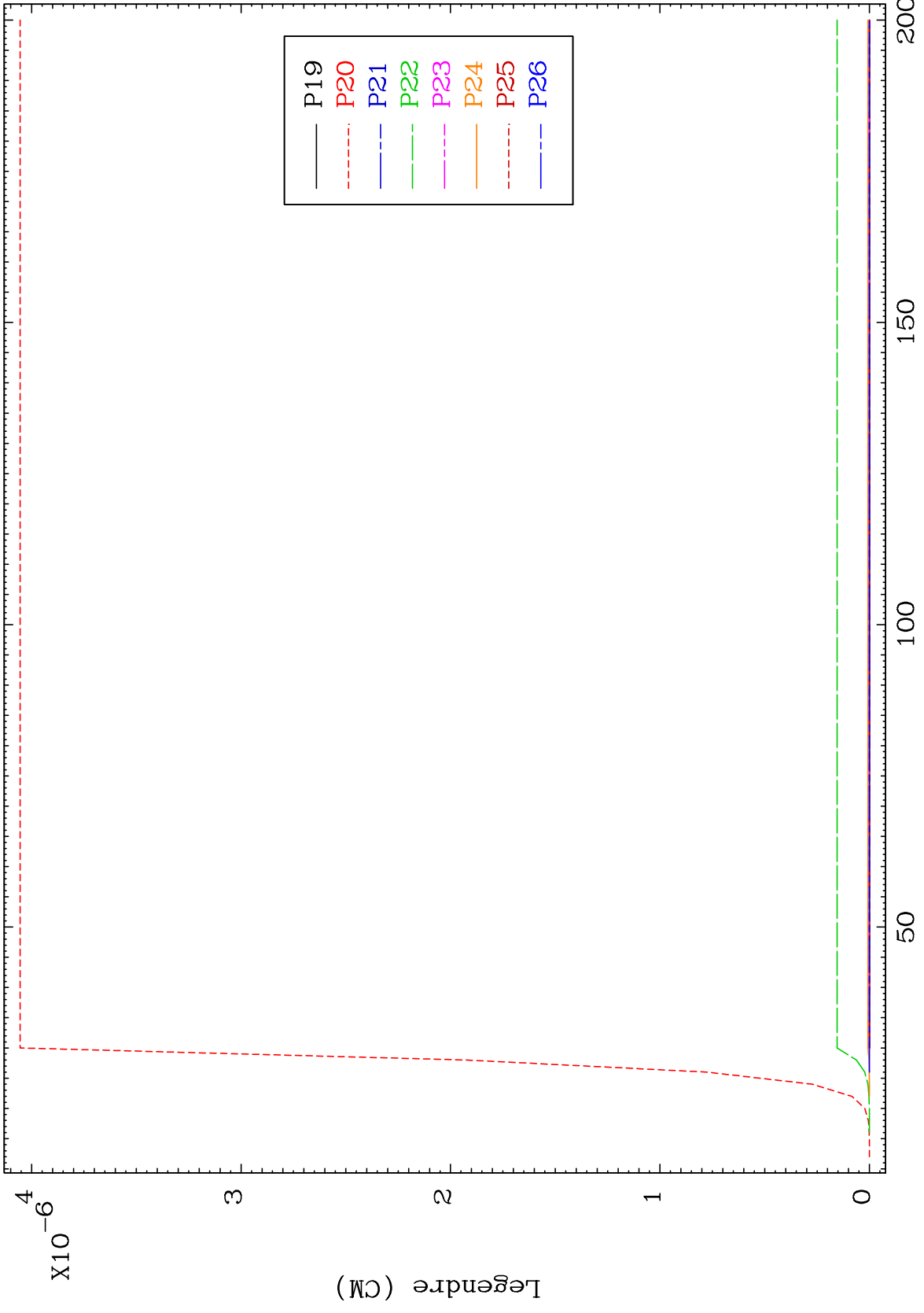


110

Incident Energy (MeV)

61-Pm-154

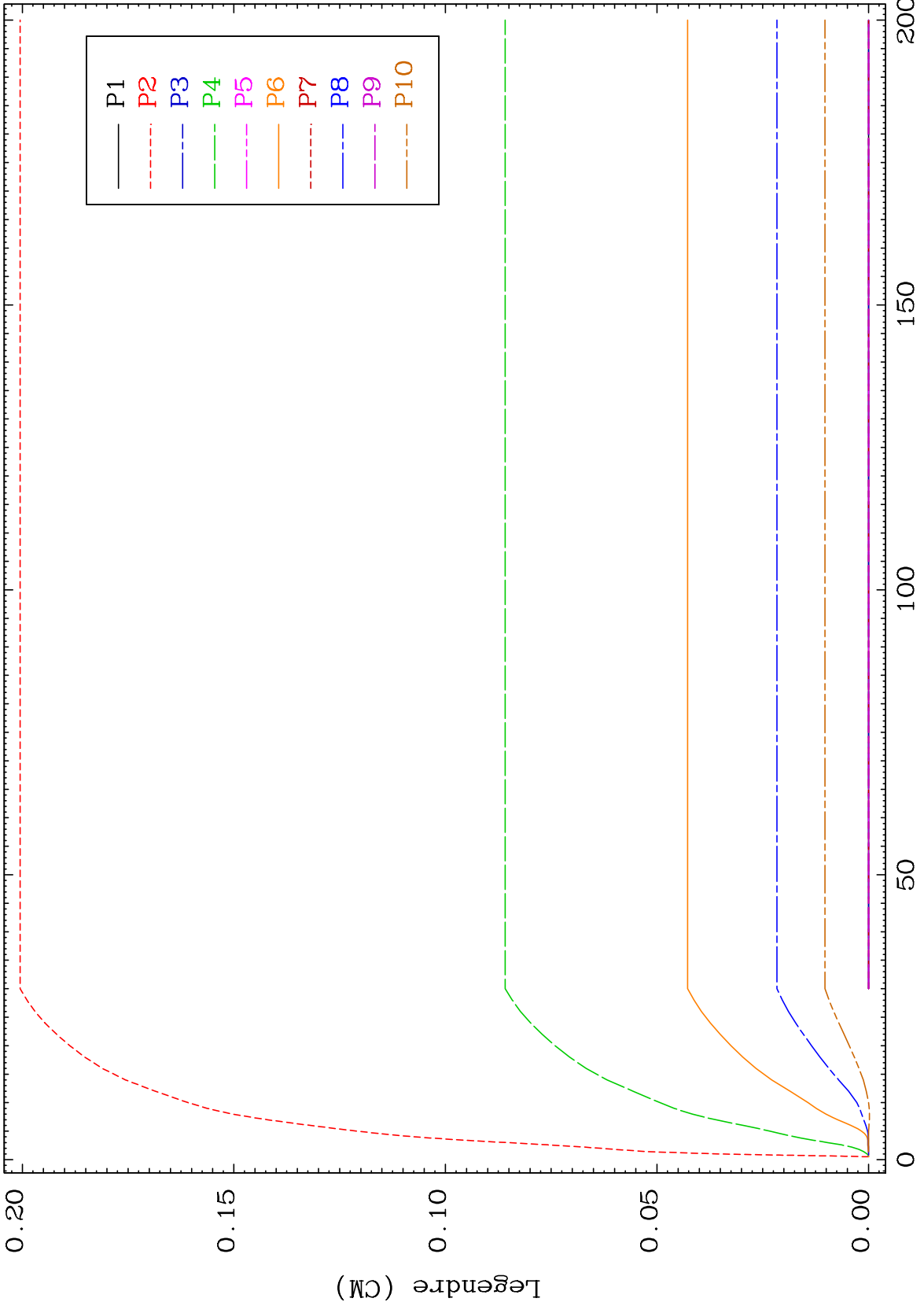
MAT 6170 MT= 75 (n,n') Level Legendre Coefficients 61-Pm-154



111 61-Pm-154

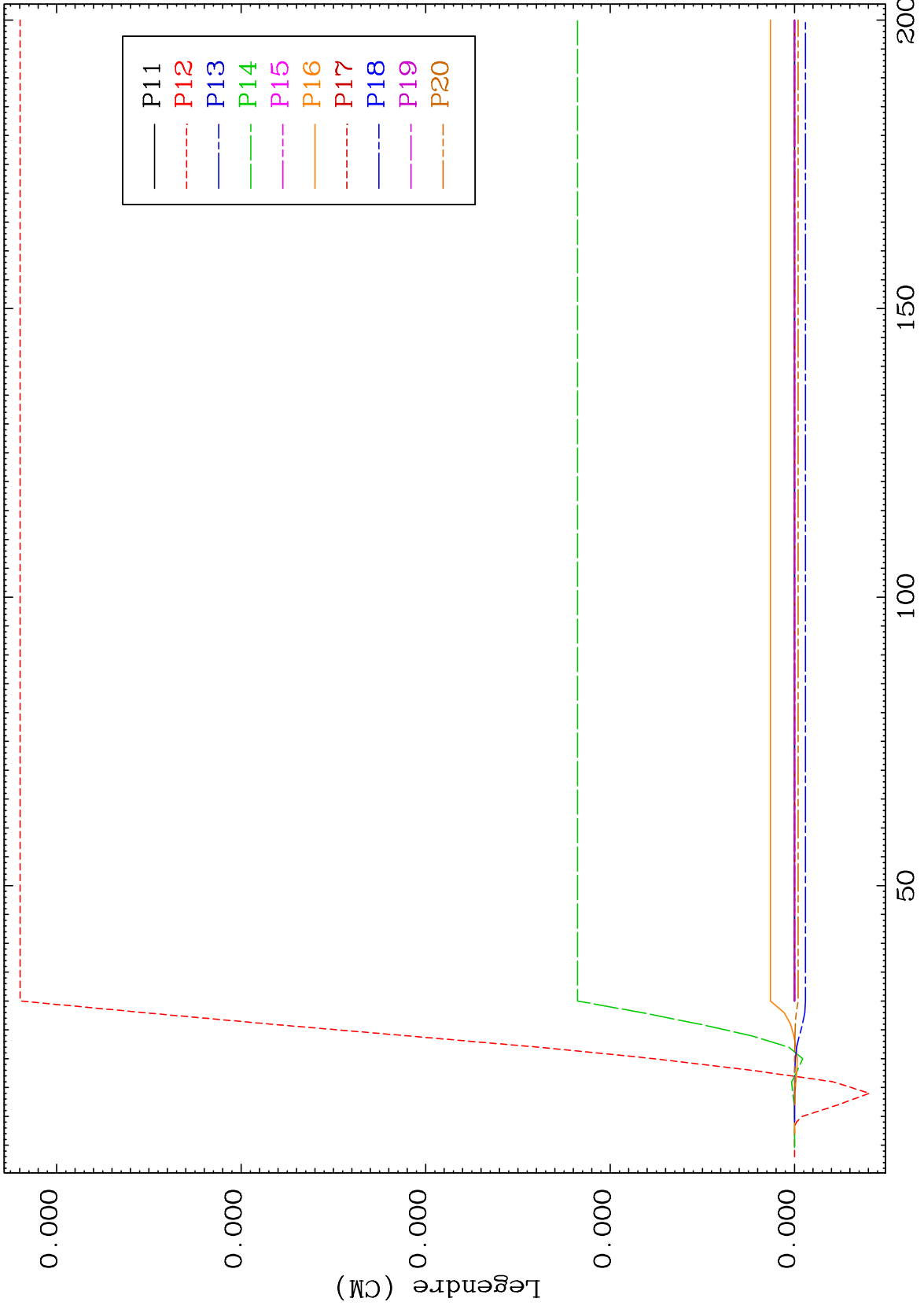


MAT 6170 MT= 76 (n,n') Level Legendre Coefficients 61-Pm-154



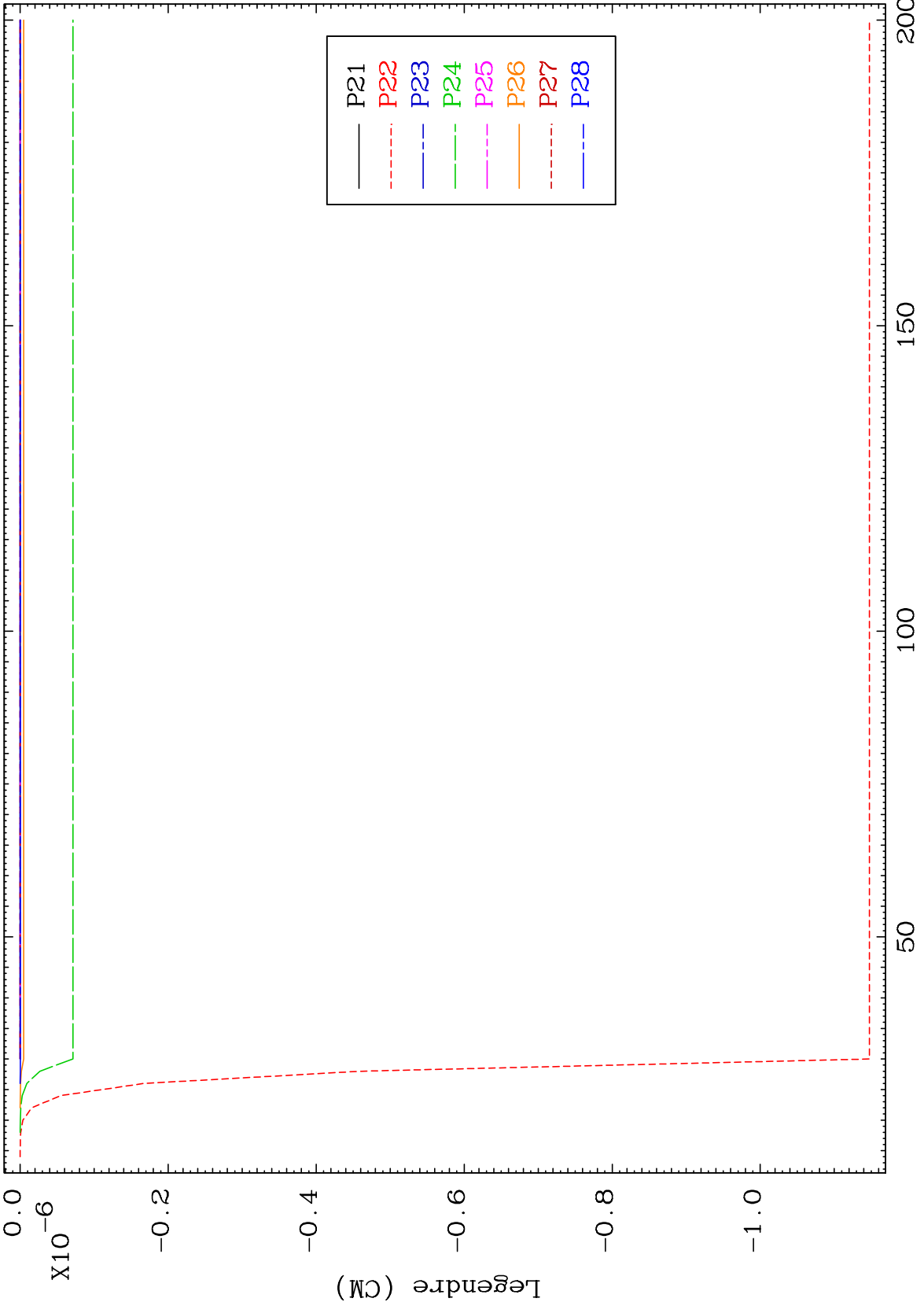
112 61-Pm-154

MAT 6170 MT= 76 (n,n') Level Legendre Coefficients 61-Pm-154



113 61-Pm-154

MAT 6170 MT= 76 (n,n') Level Legendre Coefficients 61-Pm-154

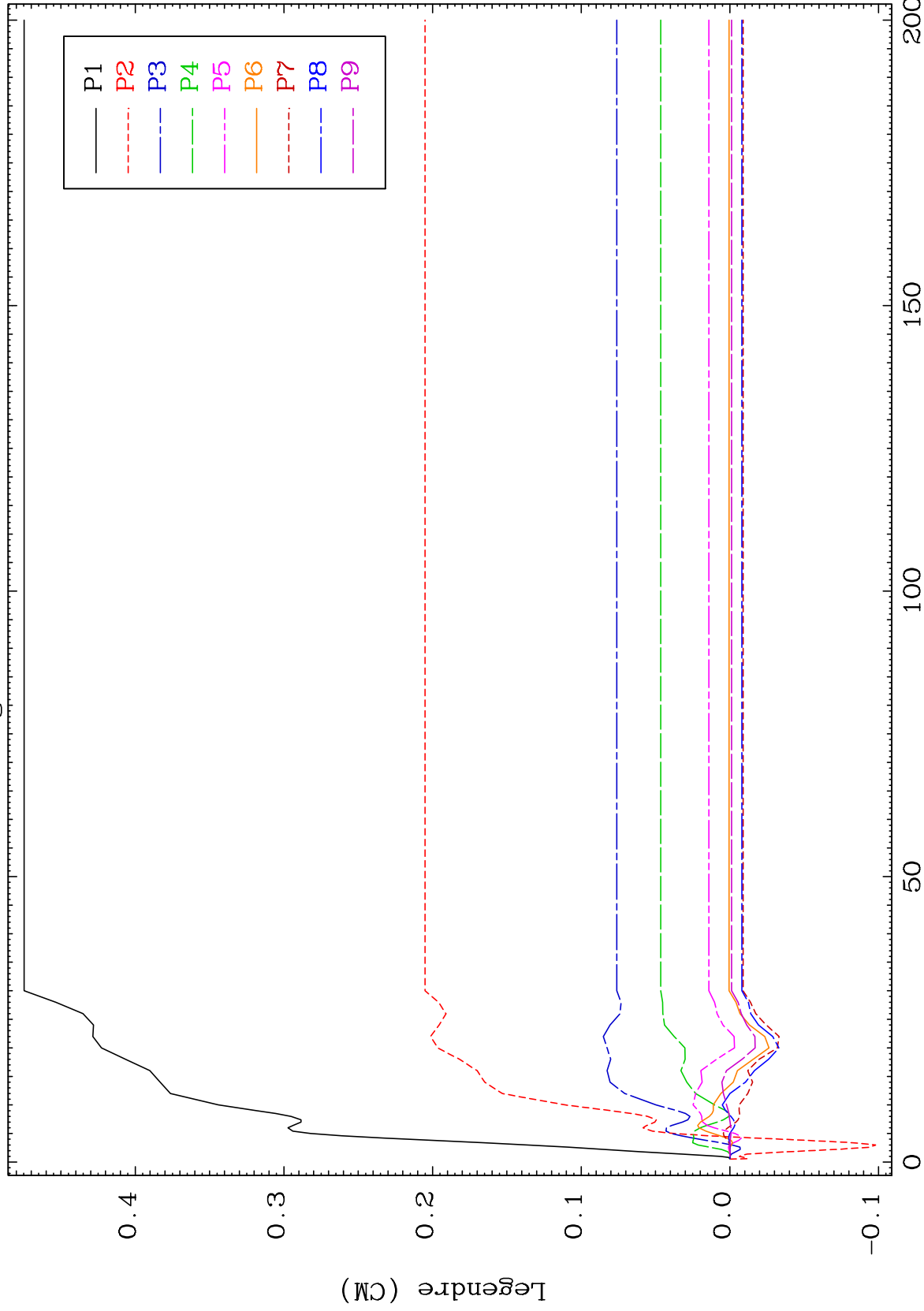


114 61-Pm-154

MAT 6170

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

61-Pm-154



115

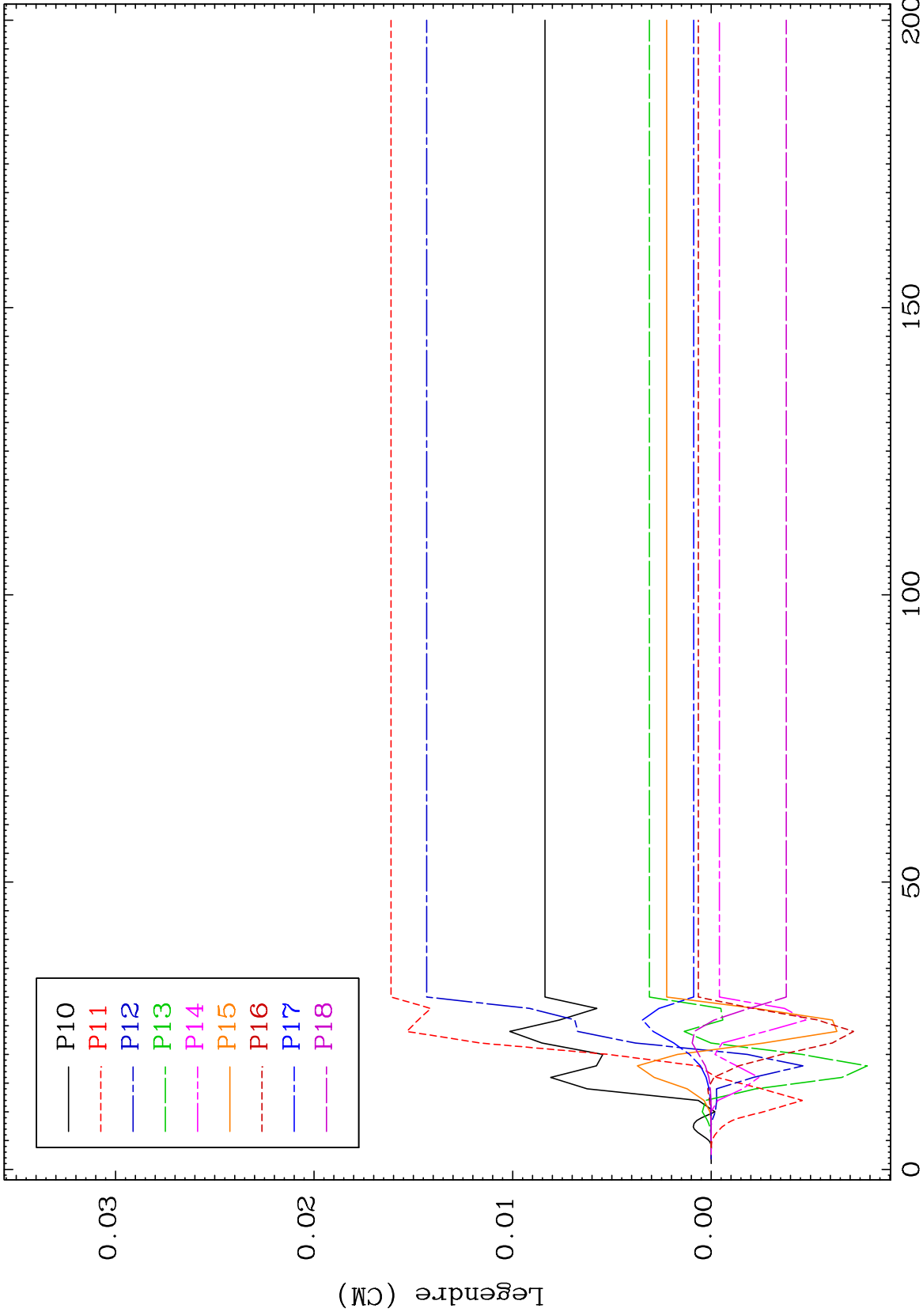
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154



116

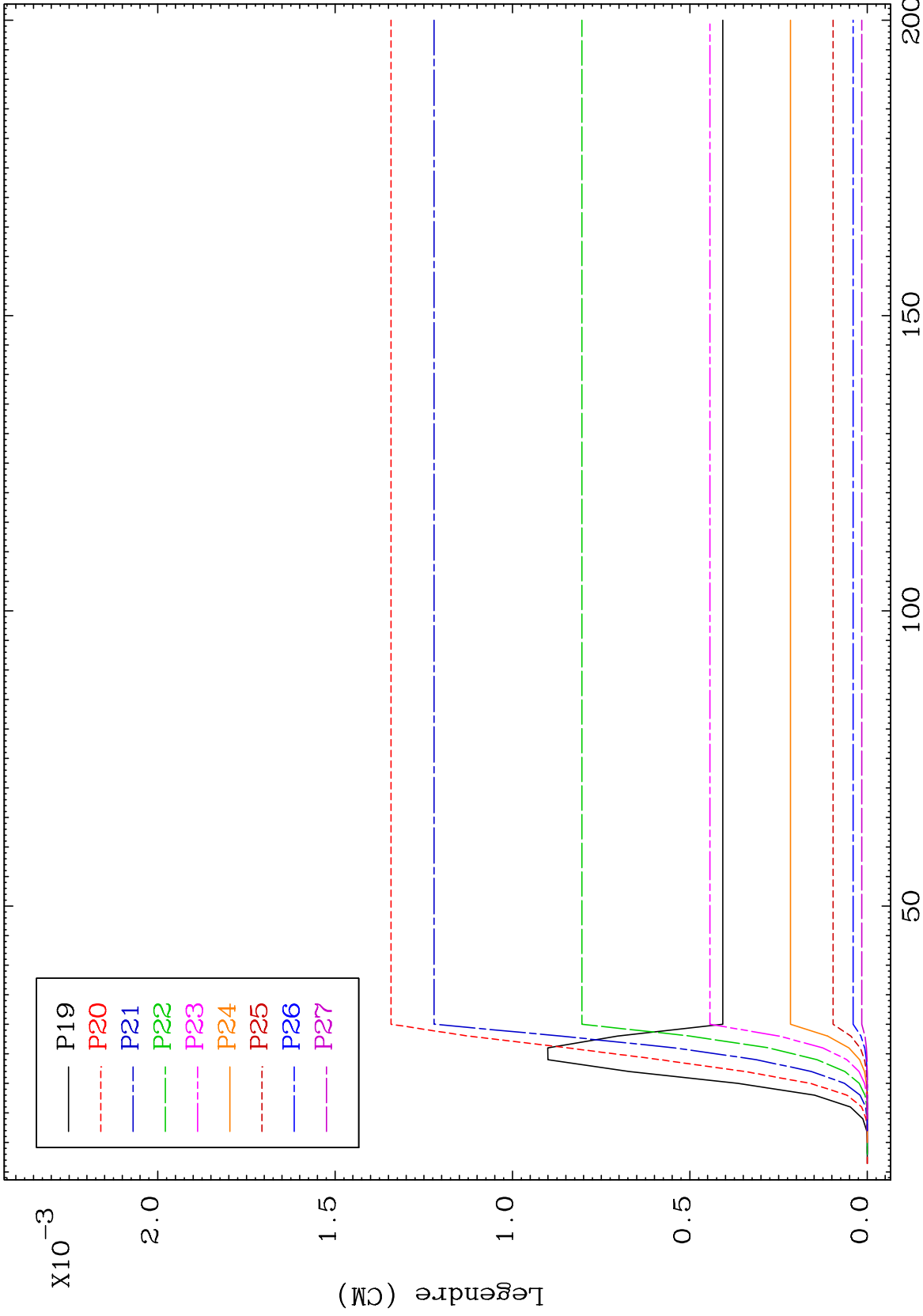
Incident Energy (MeV)

61-Pm-154

MAT 6170

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

61-Pm-154

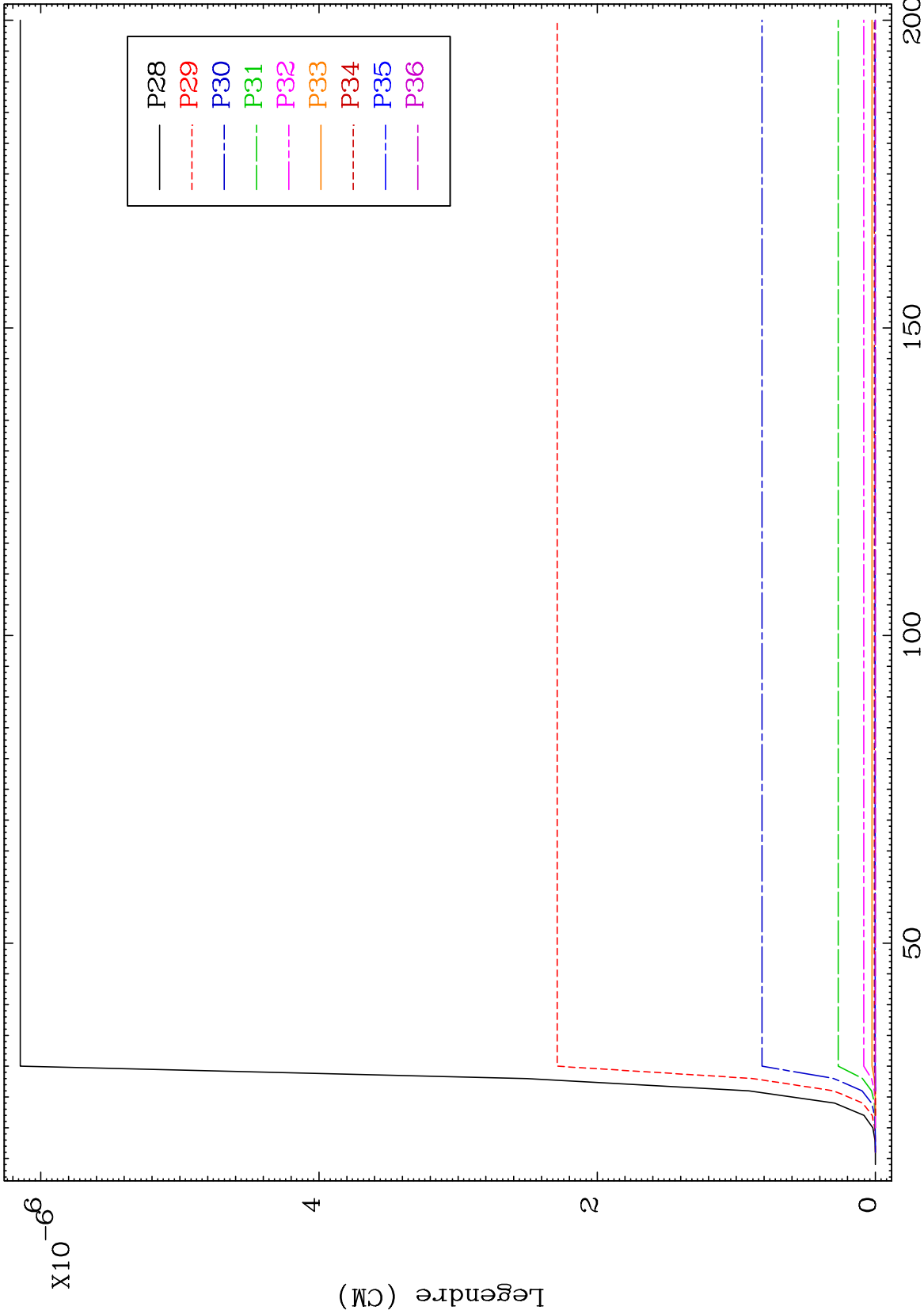


117

MAT 6170

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

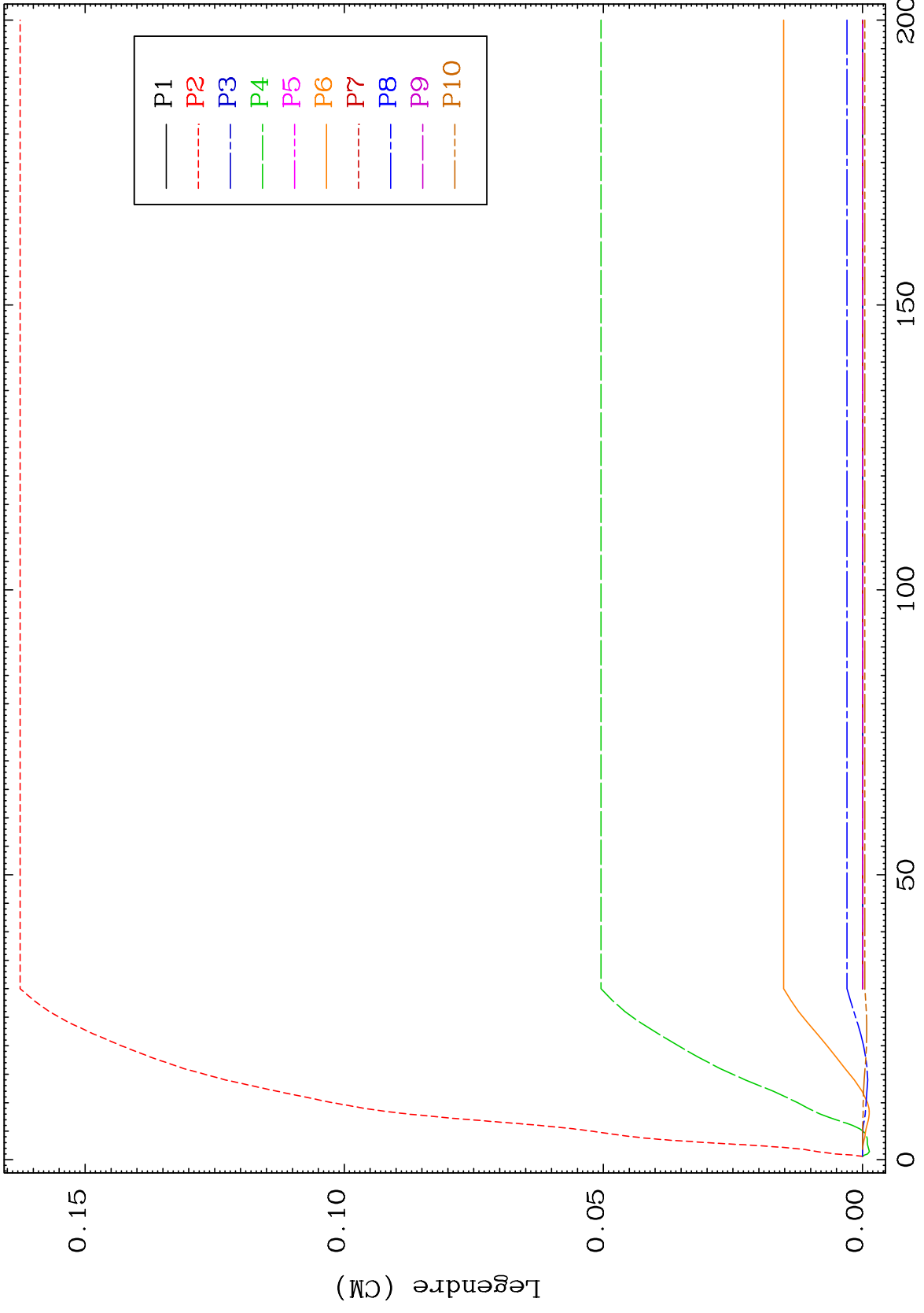
61-Pm-154



118

61-Pm-154

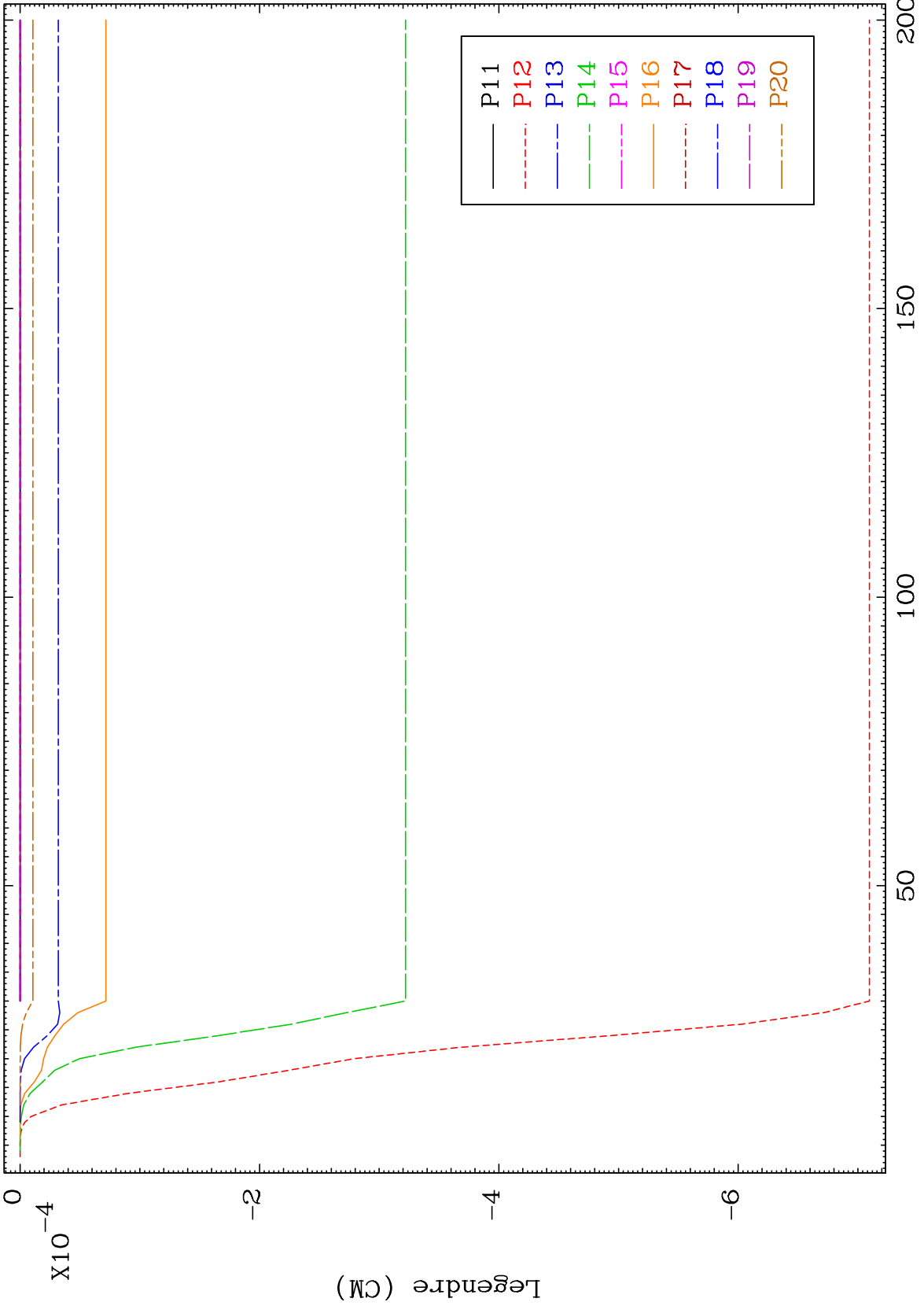
MAT 6170 MT= 78 (n,n') Level Legendre Coefficients 61-Pm-154



119 61-Pm-154

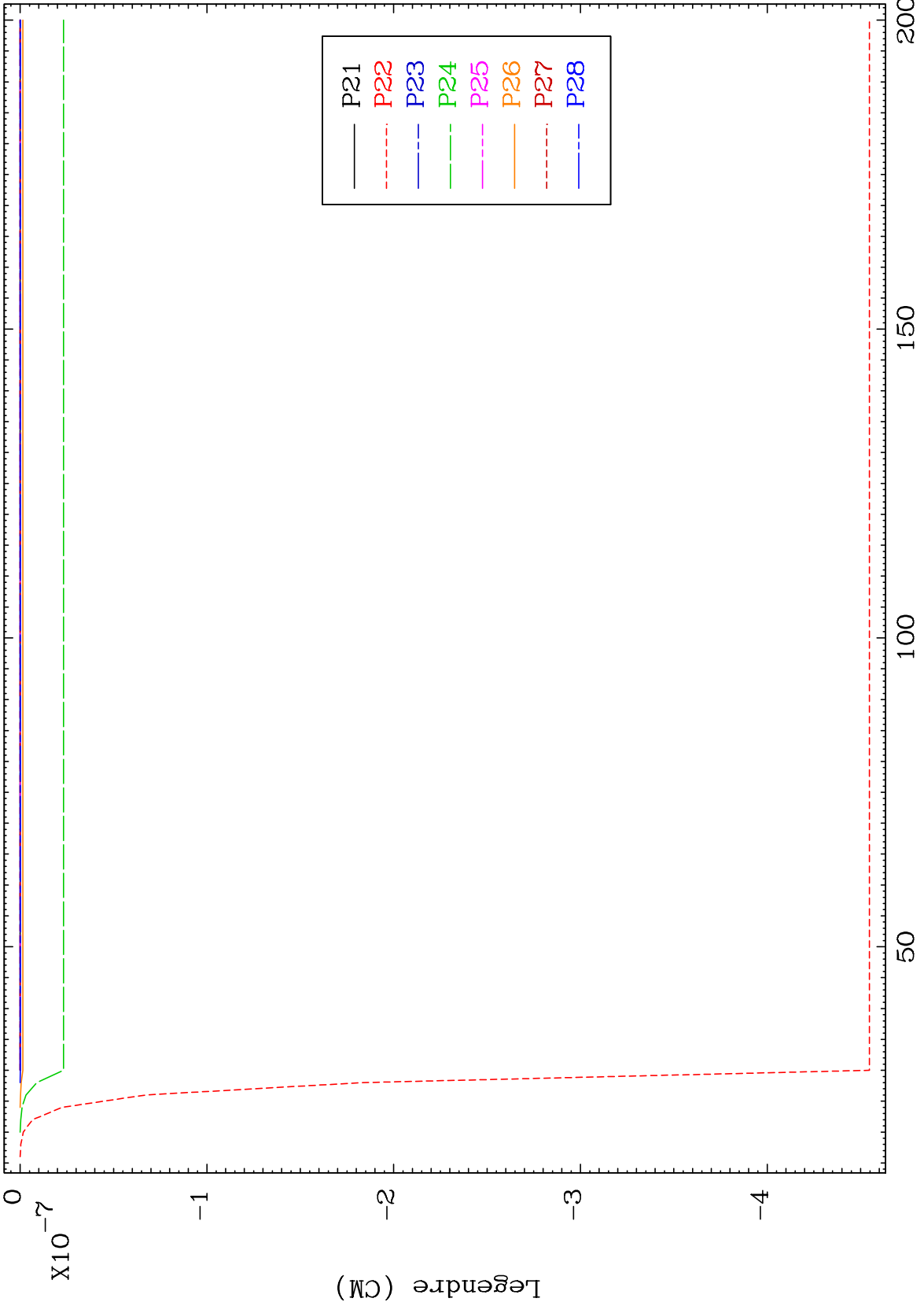


MAT 6170 MT= 78 (n,n') Level Legendre Coefficients 61-Pm-154



120 Incident Energy (MeV) 61-Pm-154

MAT 6170 MT= 78 (n,n') Level Legendre Coefficients 61-Pm-154

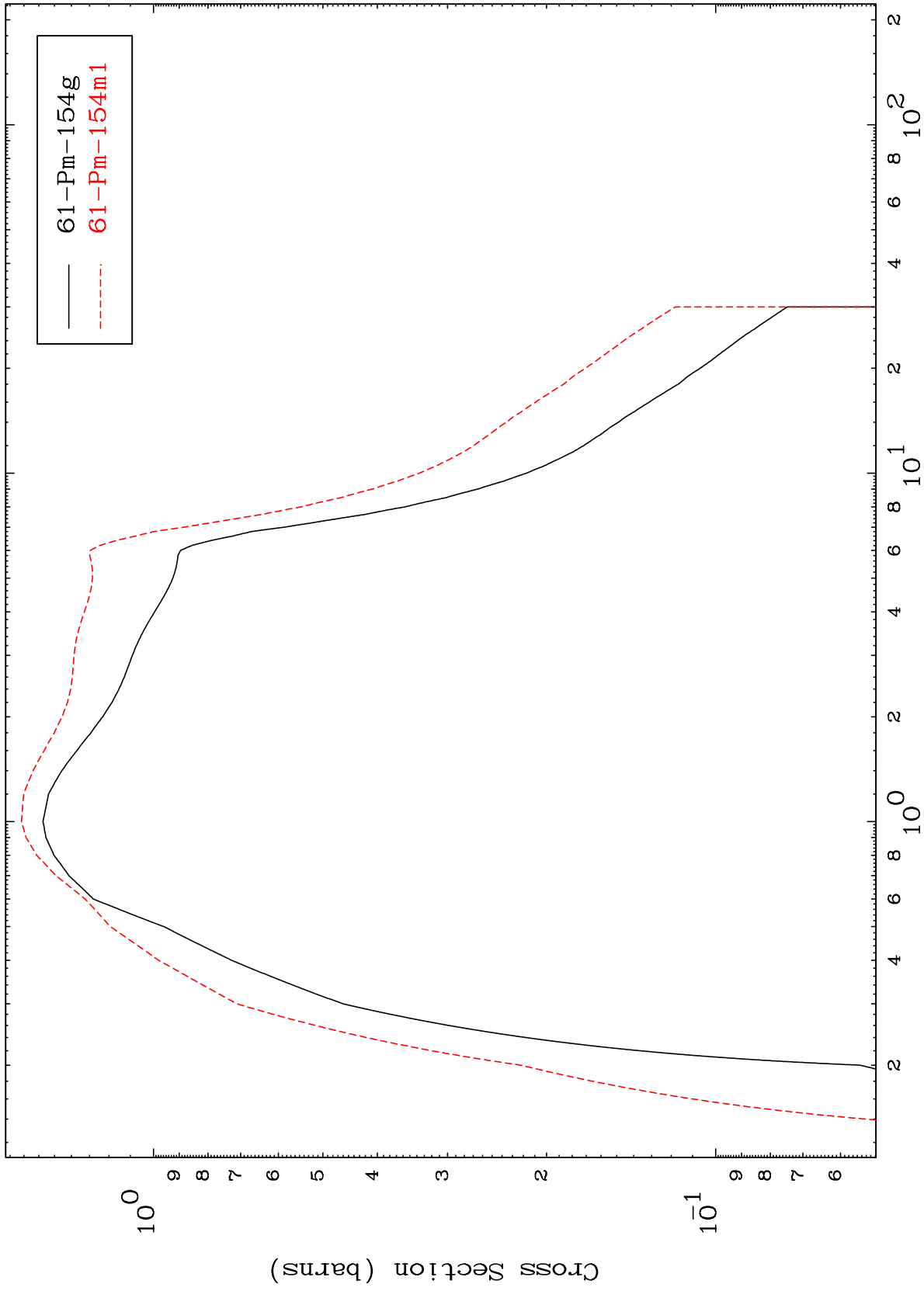


121 Incident Energy (MeV) 61-Pm-154

MAT 6170

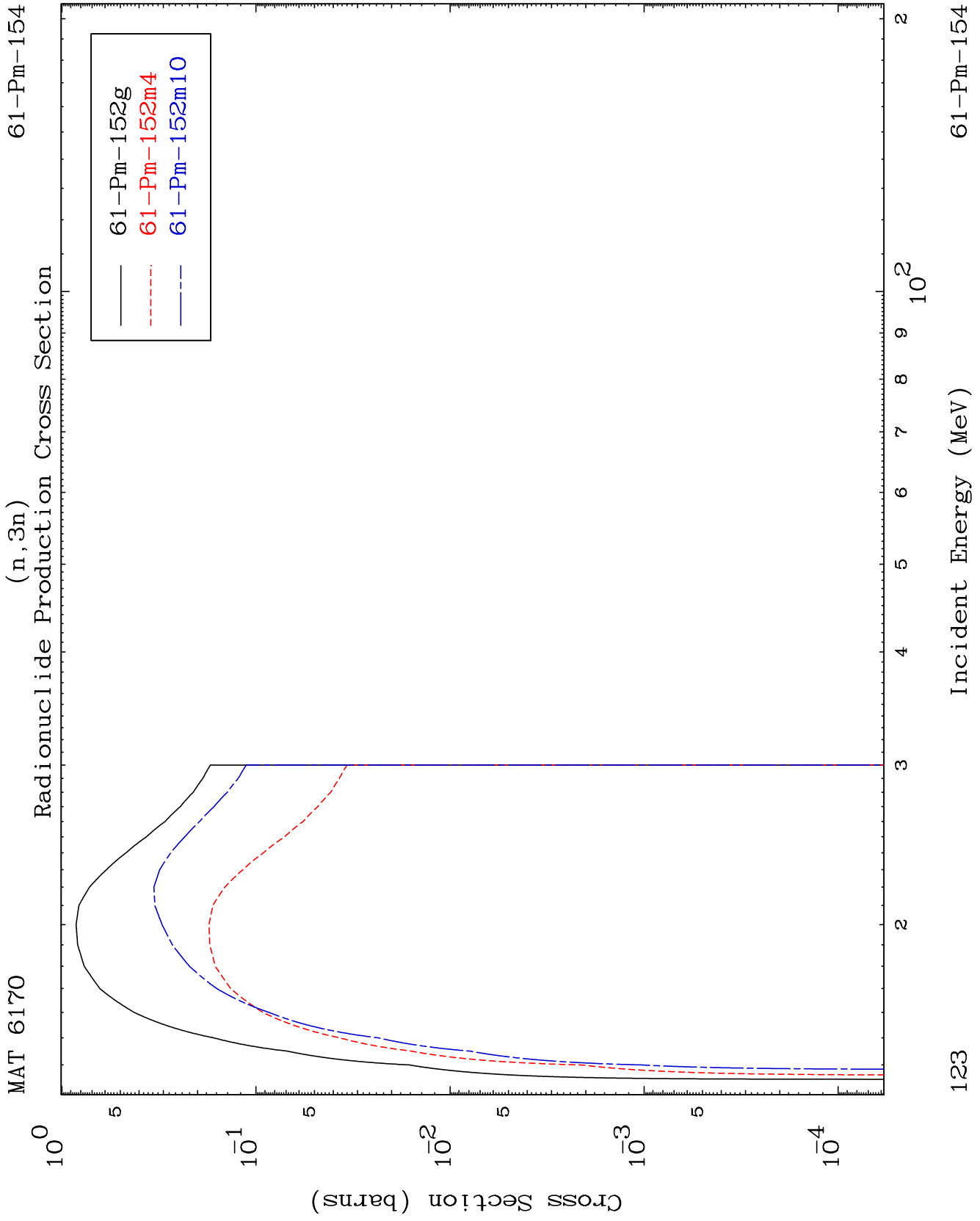
61-Pm-154

# Inelastic Radionuclide Production Cross Section



122

61-Pm-154

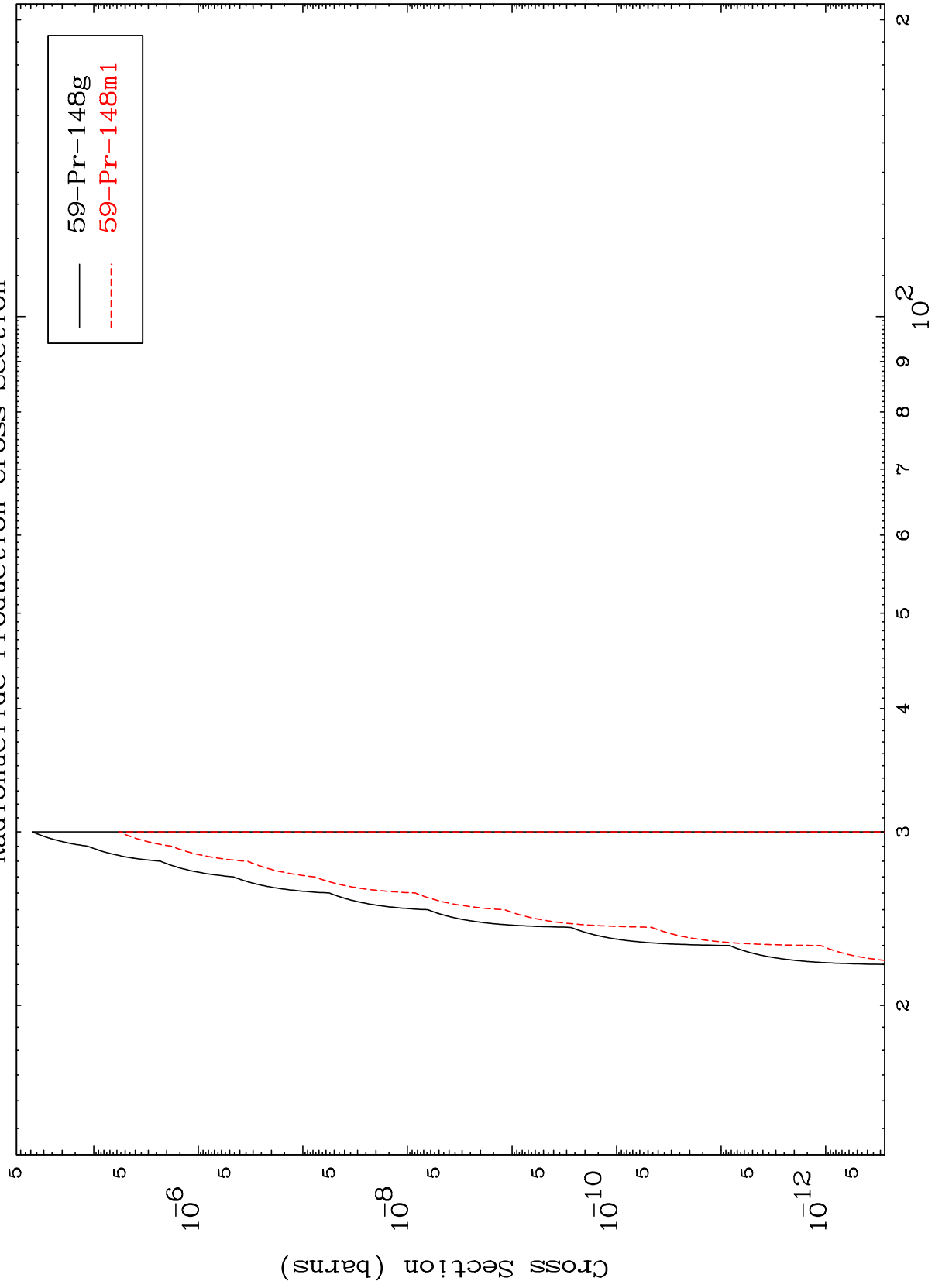


MAT 6170

(n,3n)  $\alpha$

61-Pm-154

Radionuclide Production Cross Section



124

Incident Energy (MeV)

61-Pm-154