

Program EVALPLOT
(Version 2018-1)

by

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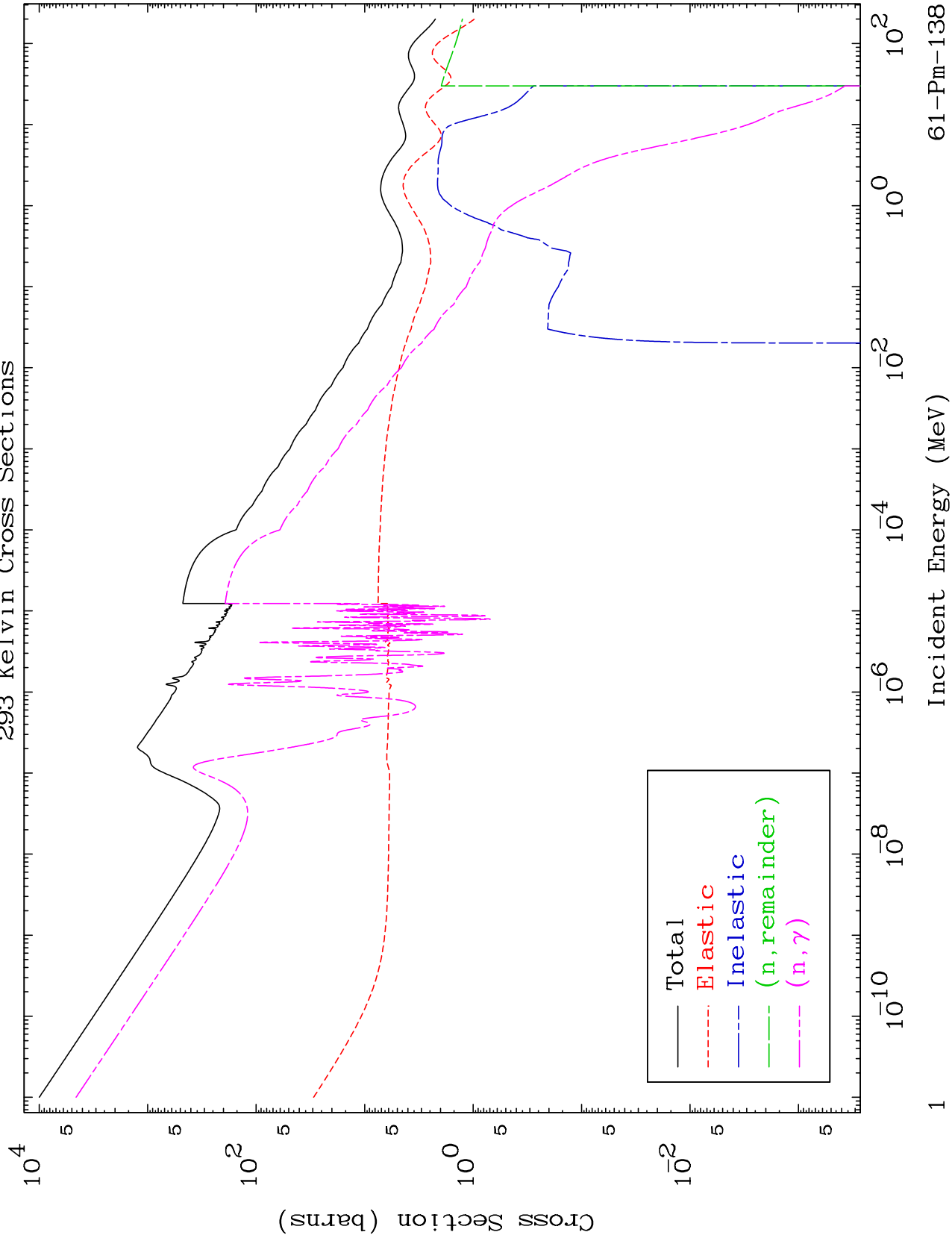
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6122

Major
293 Kelvin Cross Sections

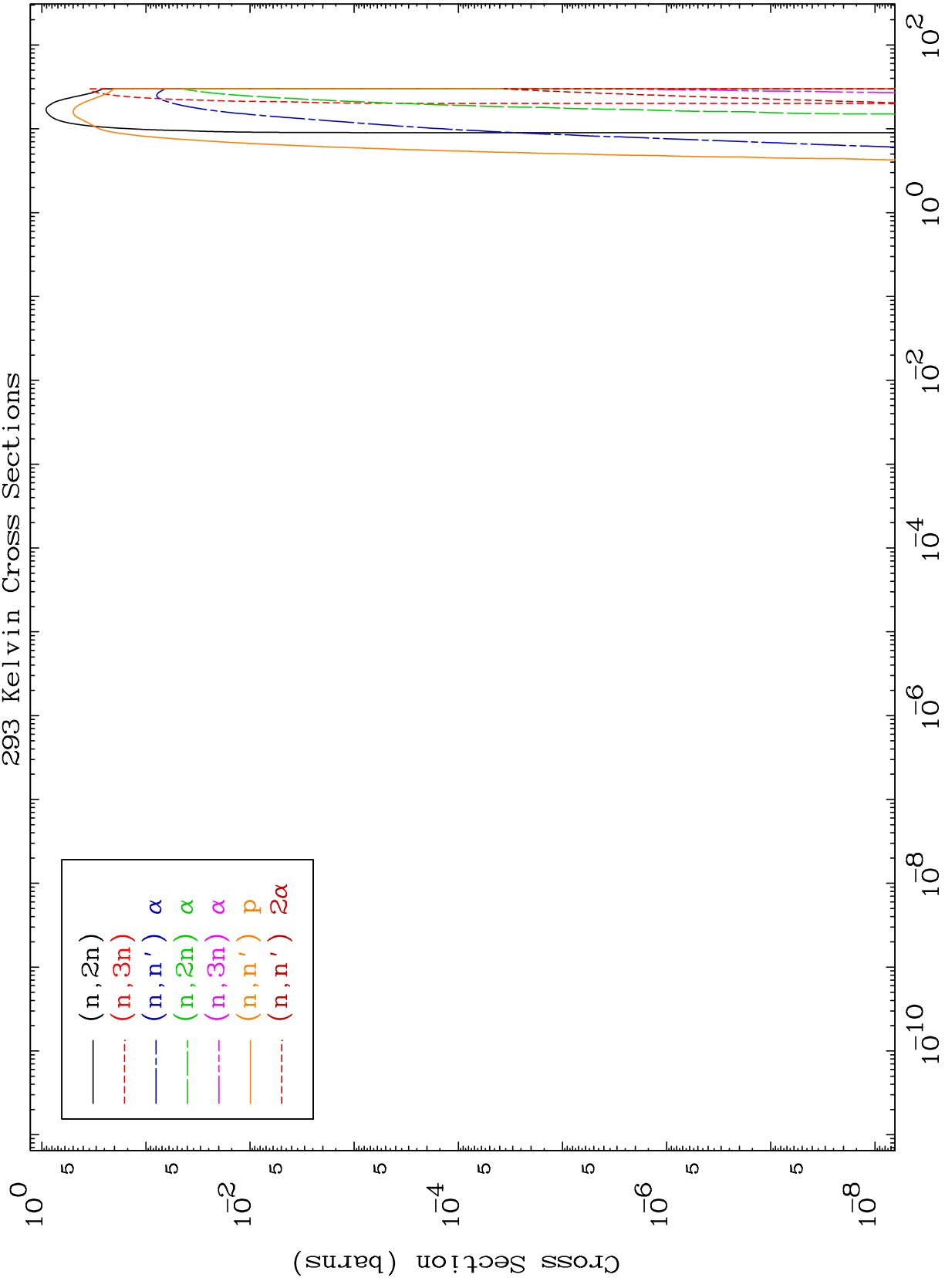
61-Pm-138



MAT 6122

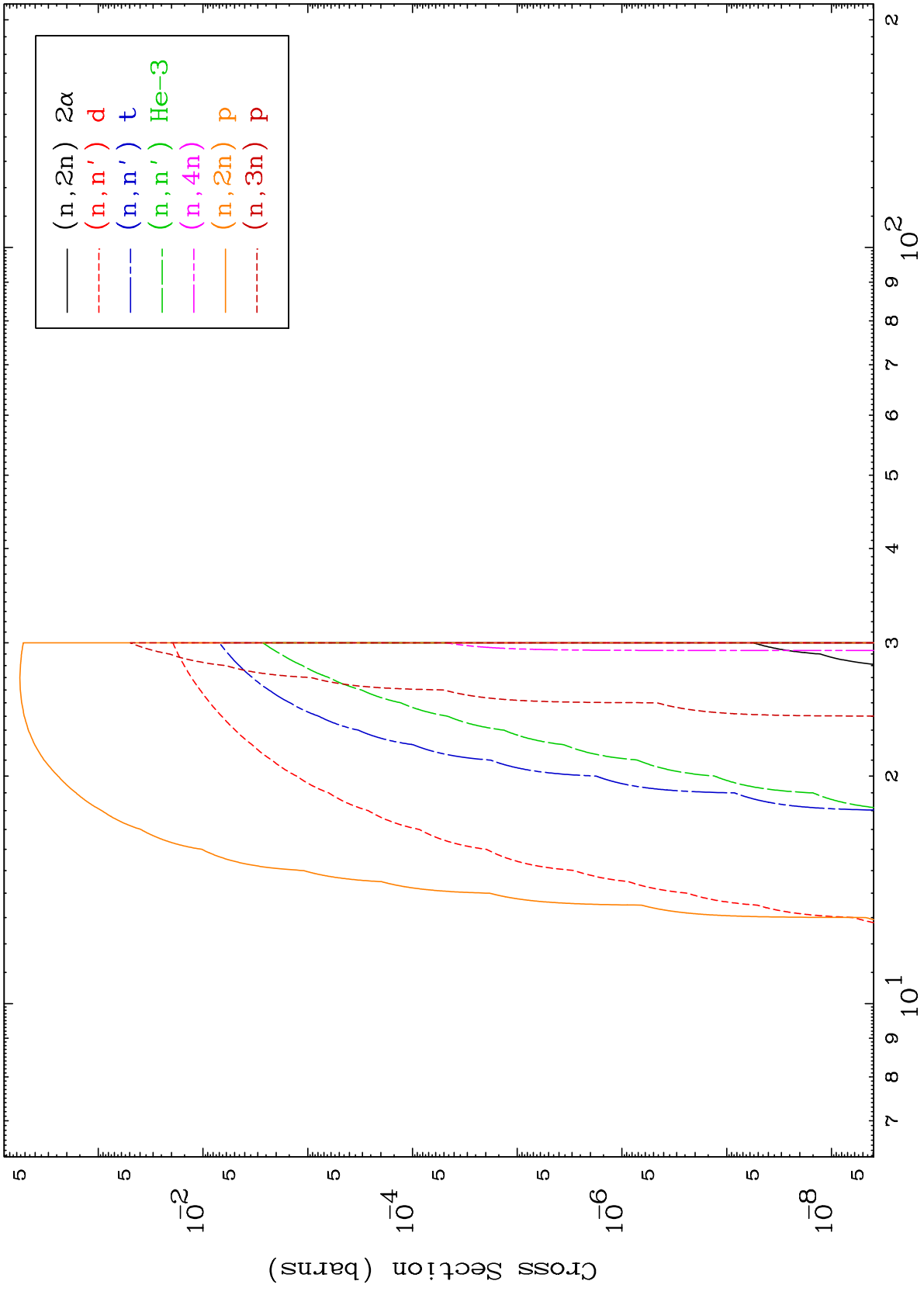
Neutron Production
293 Kelvin Cross Sections

61-Pm-138



2

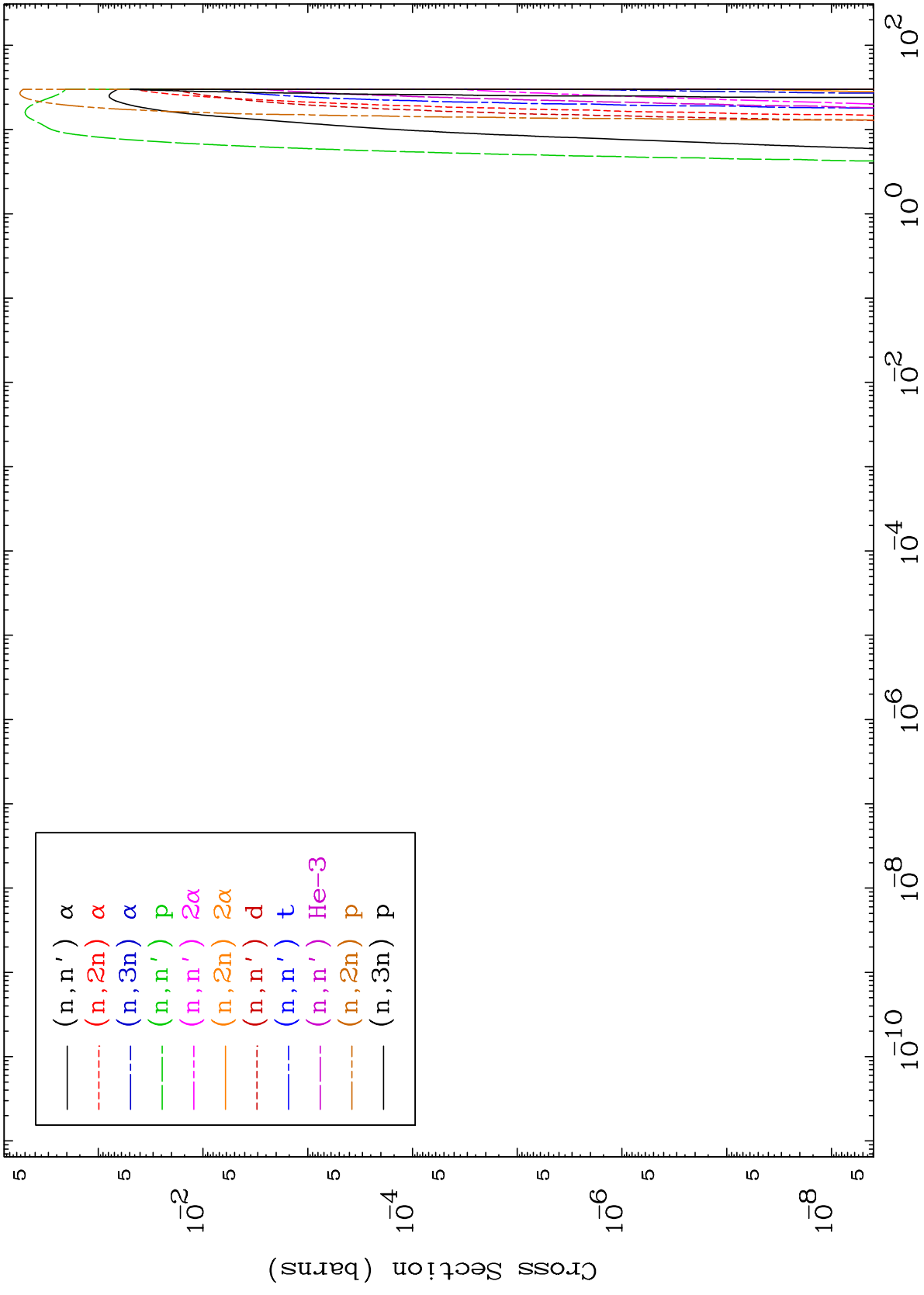
61-Pm-138



MAT 6122

Charged Particle
293 Kelvin Cross Sections

61-Pm-138

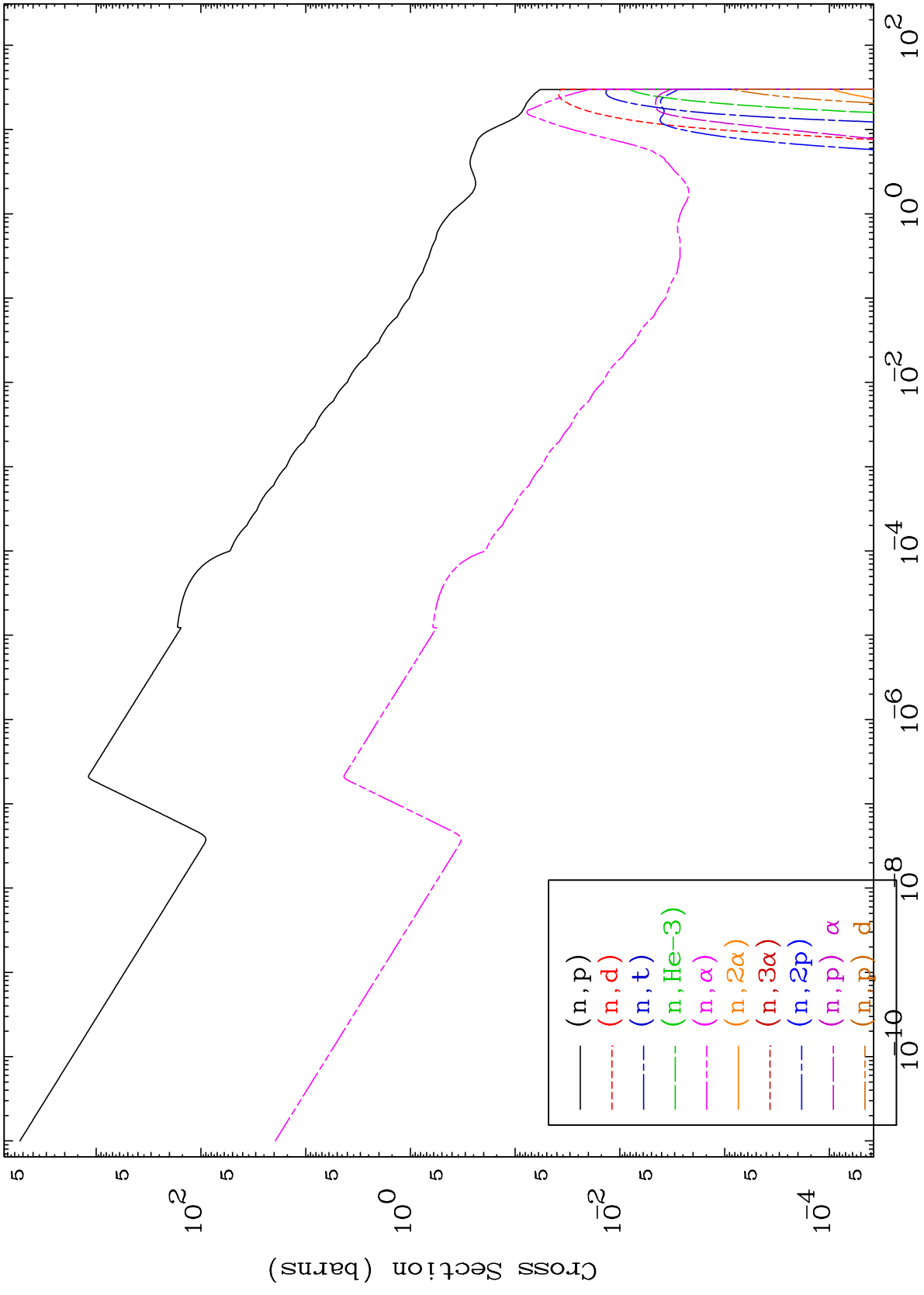


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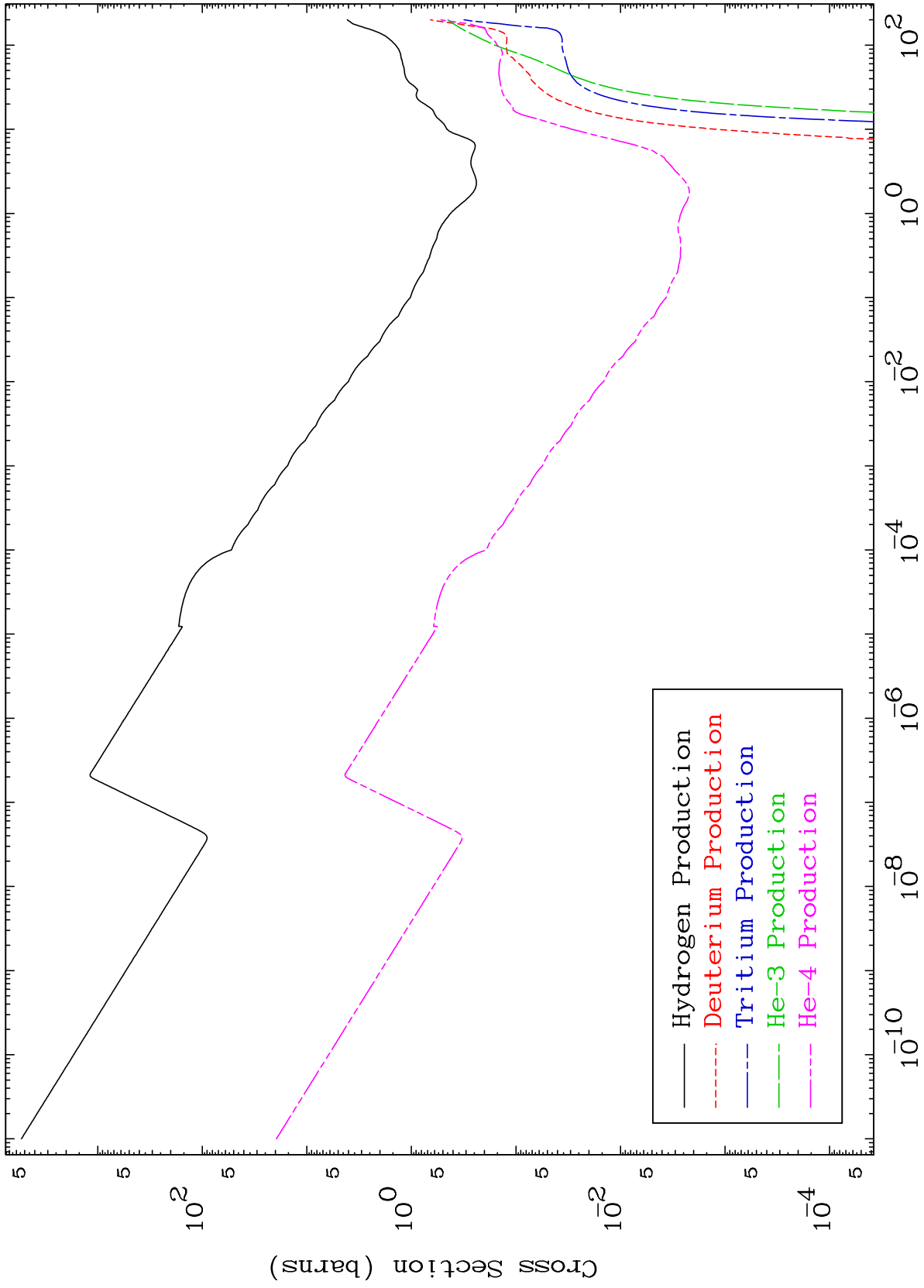
MAT 6122

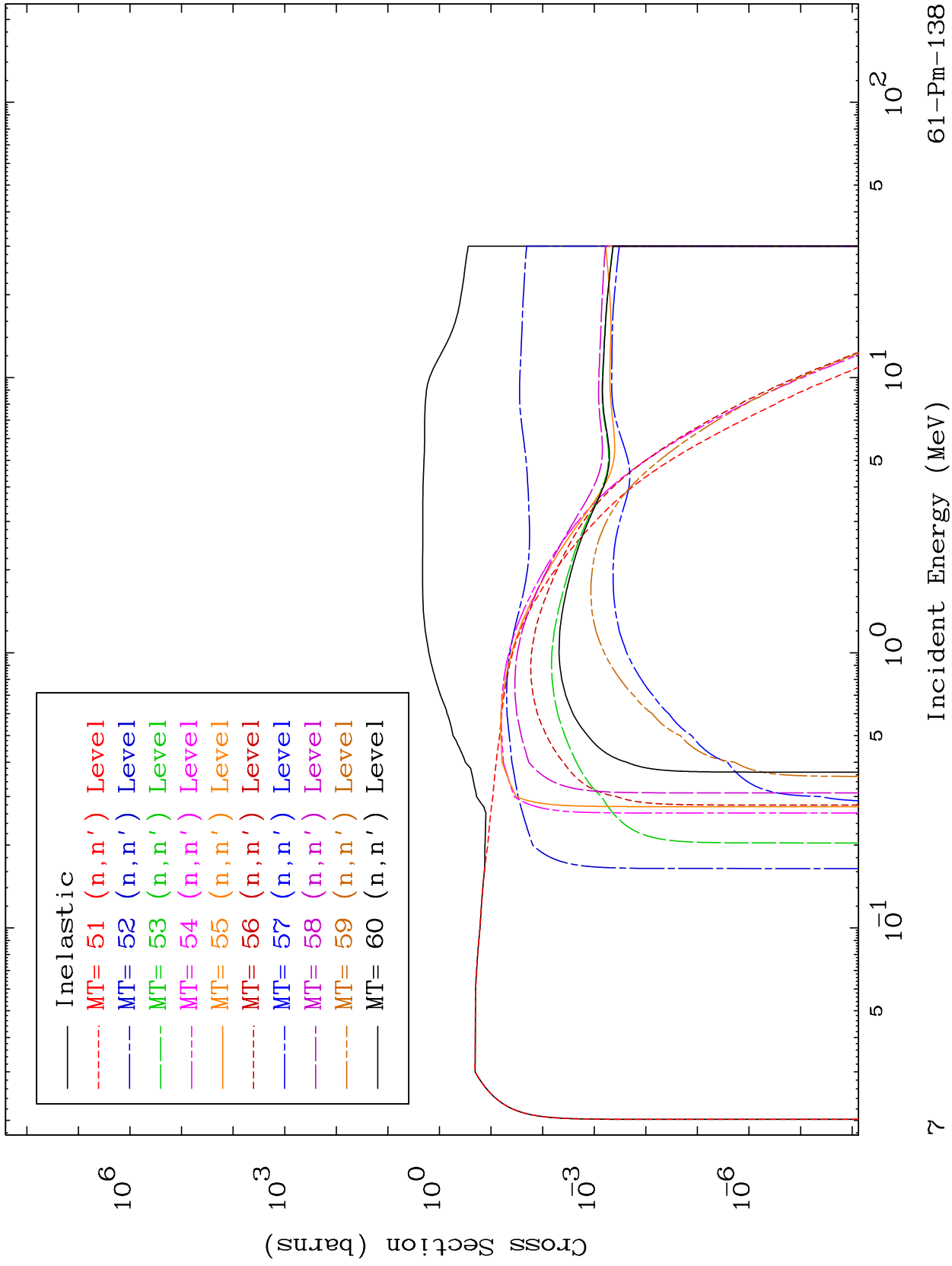
Charged Particle
293 Kelvin Cross Sections

61-Pm-138



61-Pm-138

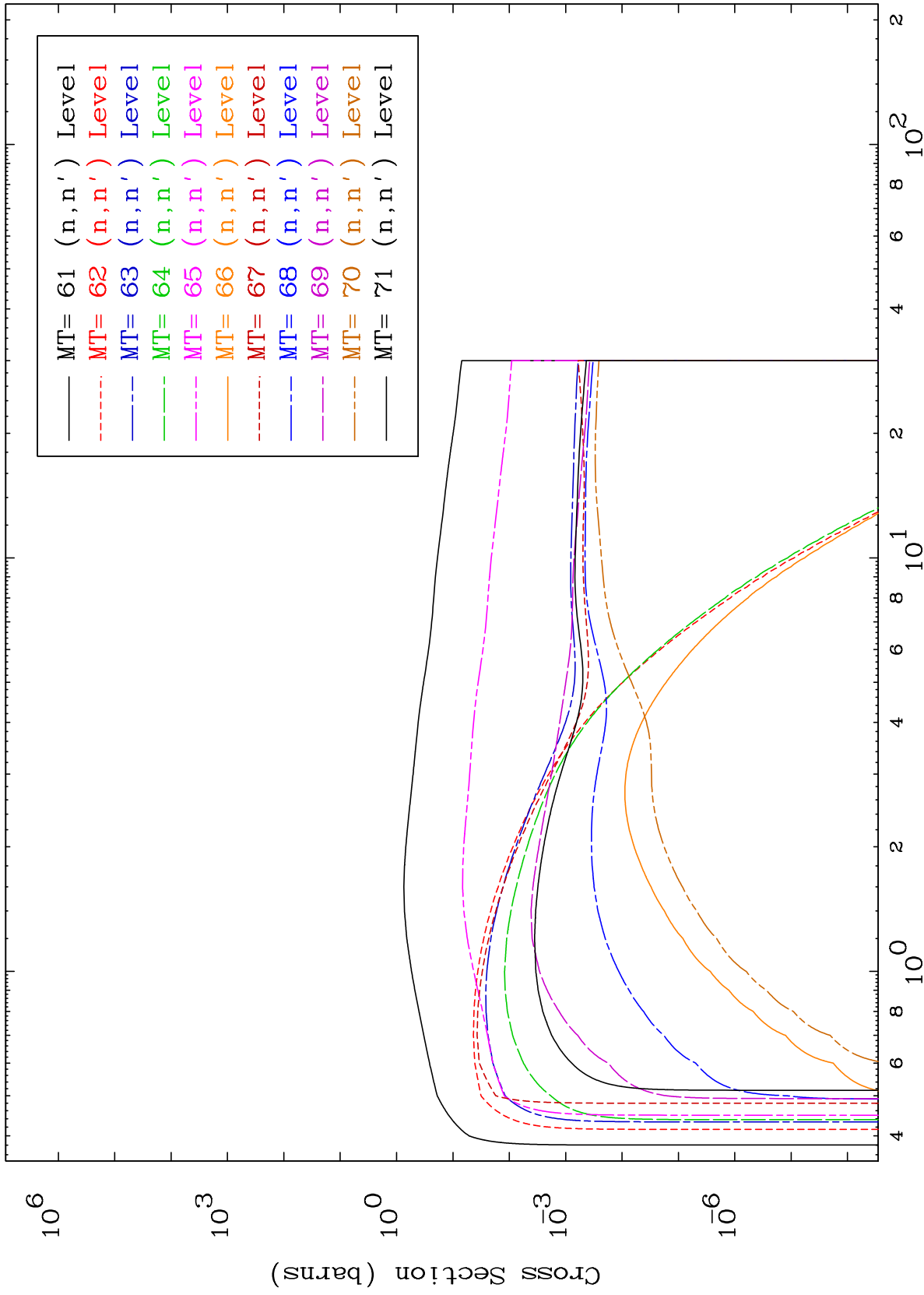




MAT 6122

(n,n') Level
293 Kelvin Cross Sections

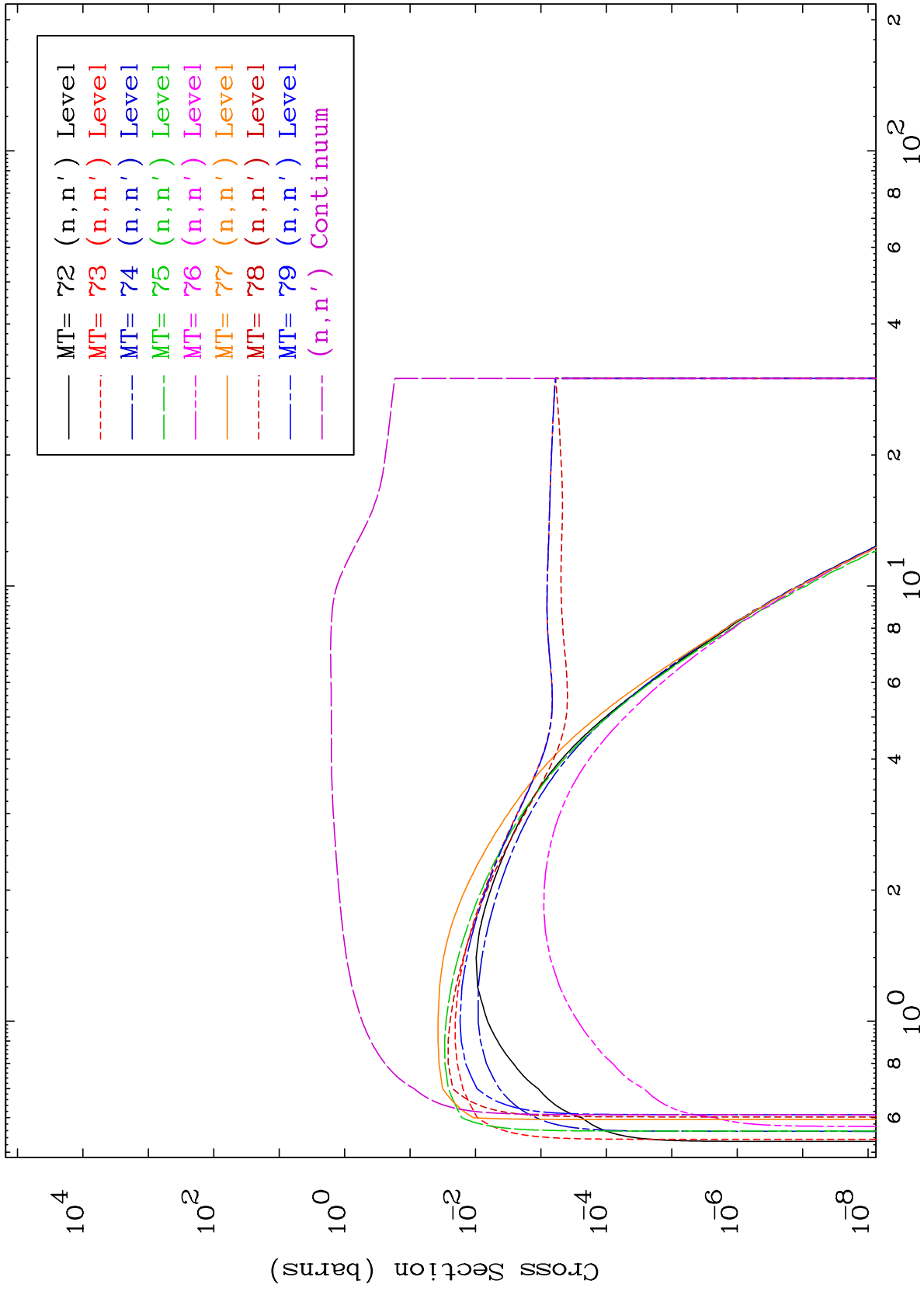
61-Pm-138



8

Incident Energy (MeV)

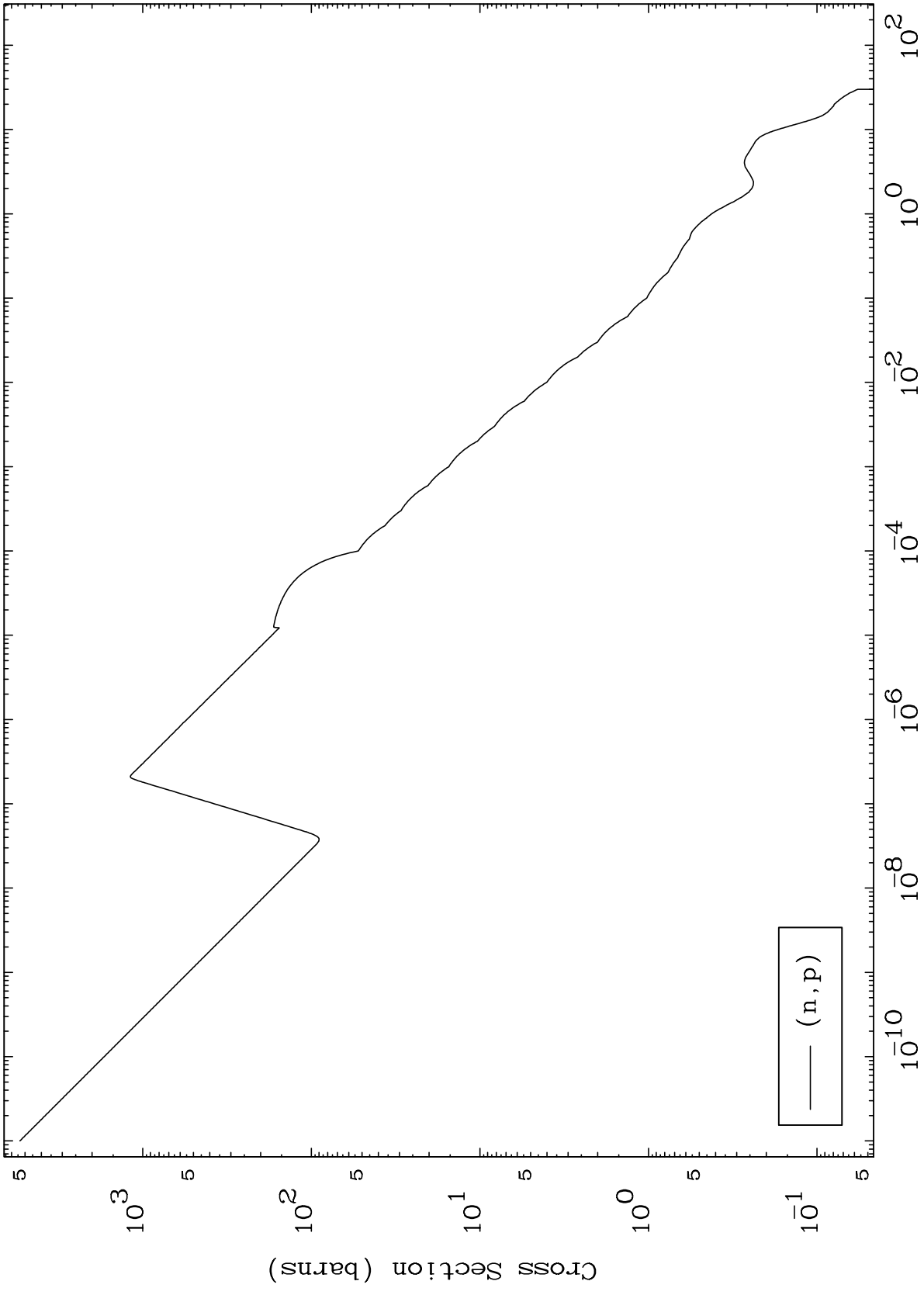
61-Pm-138



MAT 6122

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-138



10

Incident Energy (MeV)

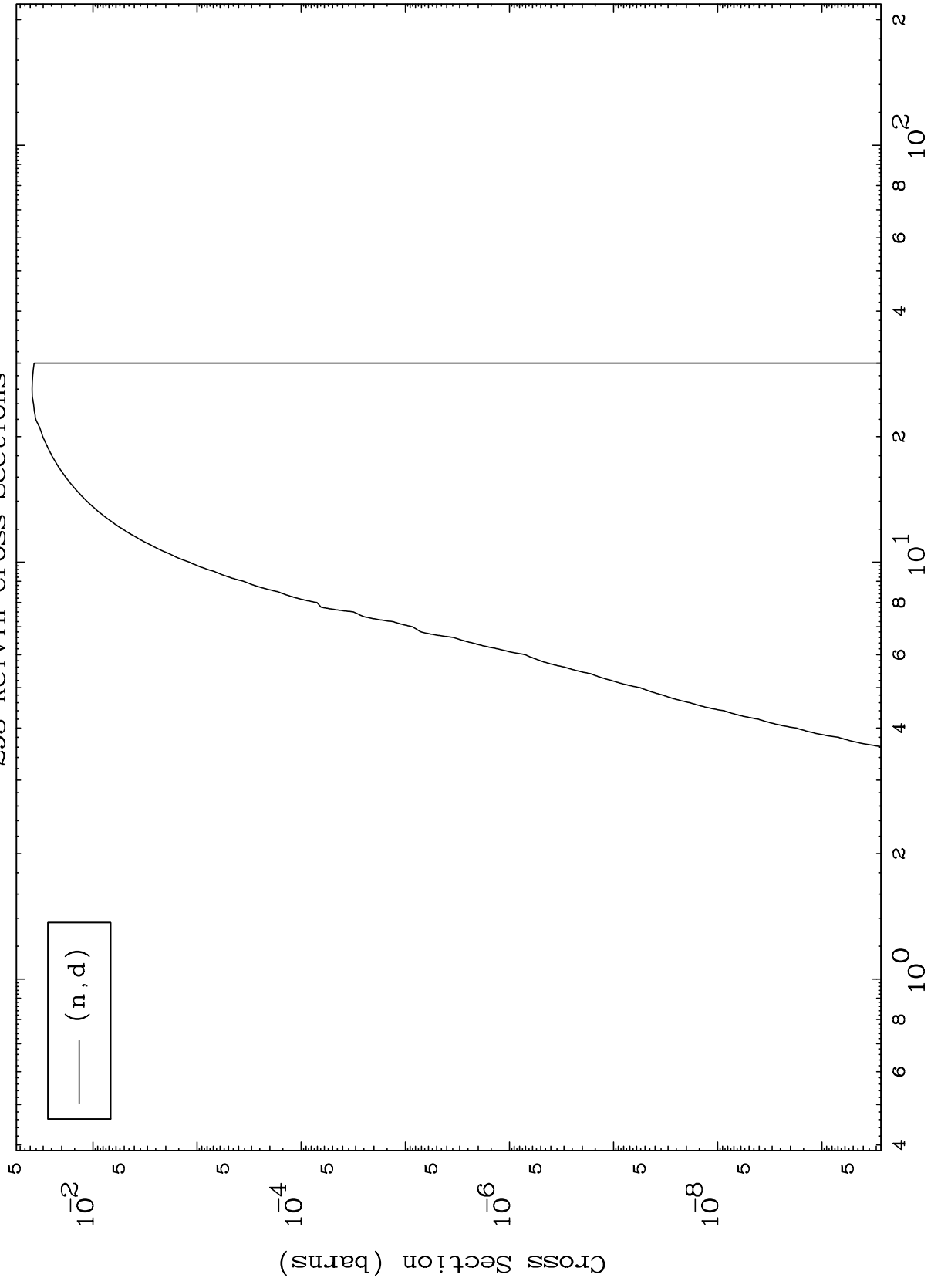
61-Pm-138

(n,p)

MAT 6122

(n,d) Levels
293 Kelvin Cross Sections

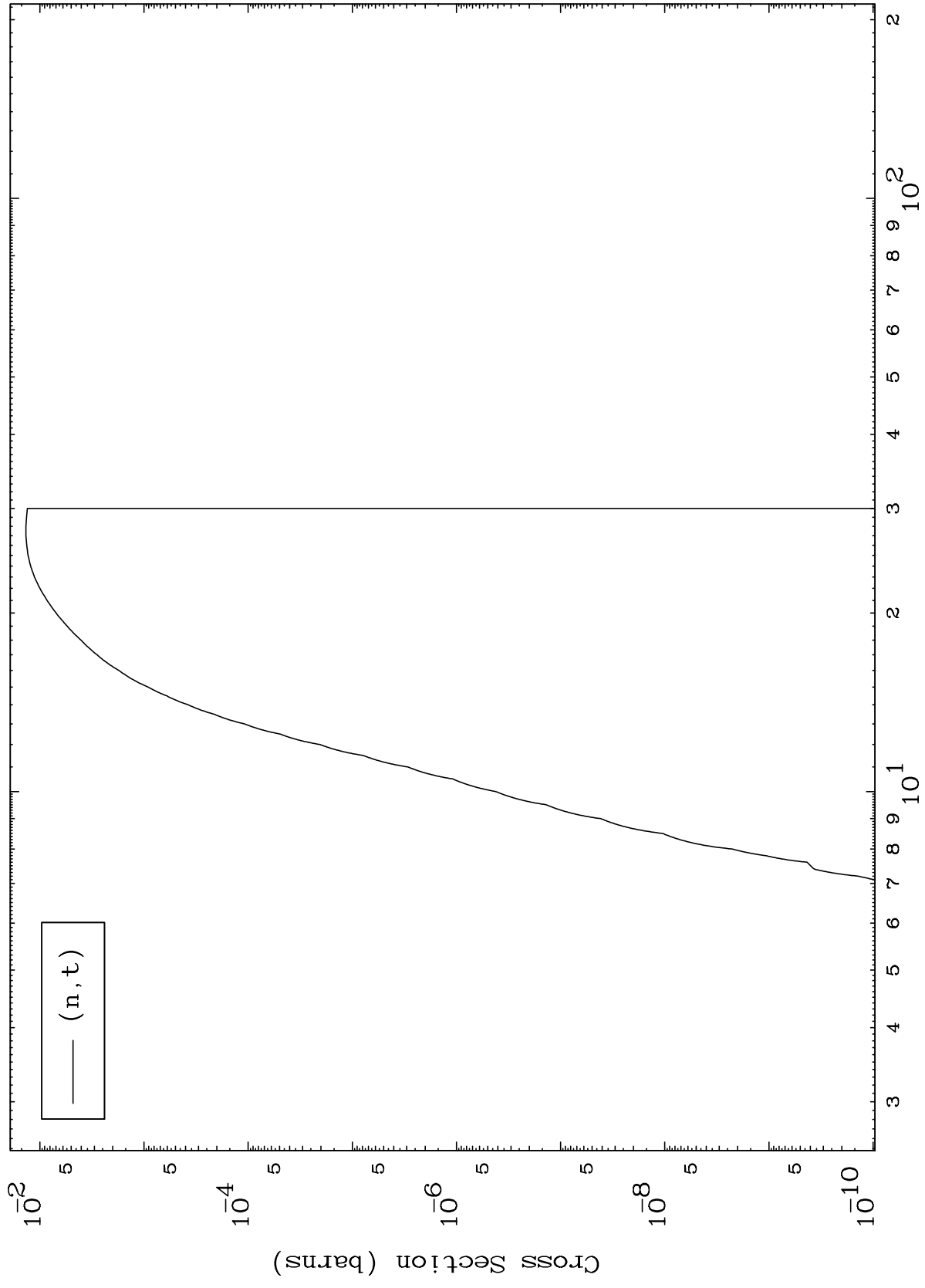
61-Pm-138



MAT 6122

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-138



12

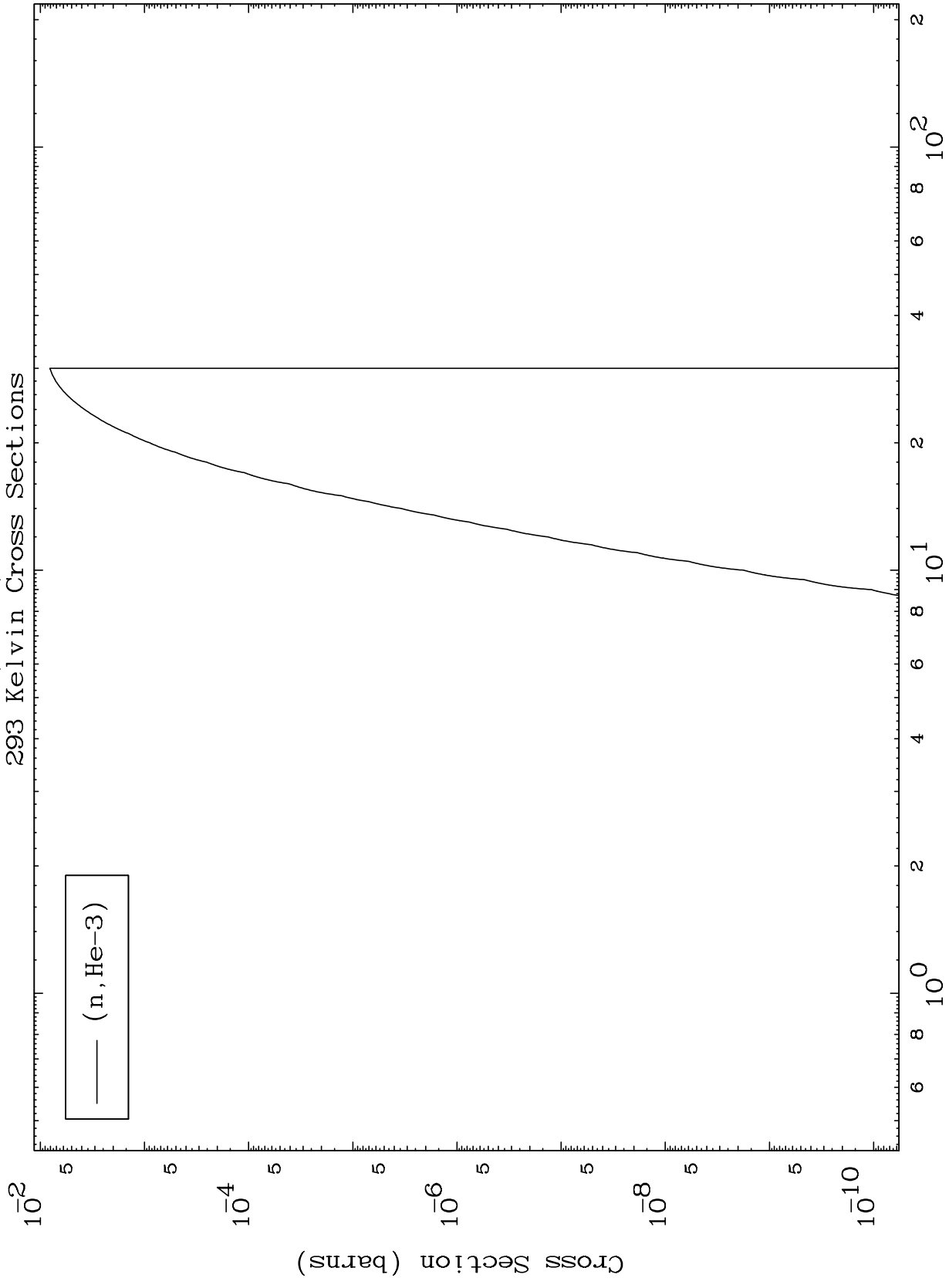
Incident Energy (MeV)

61-Pm-138

MAT 6122

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-138



13

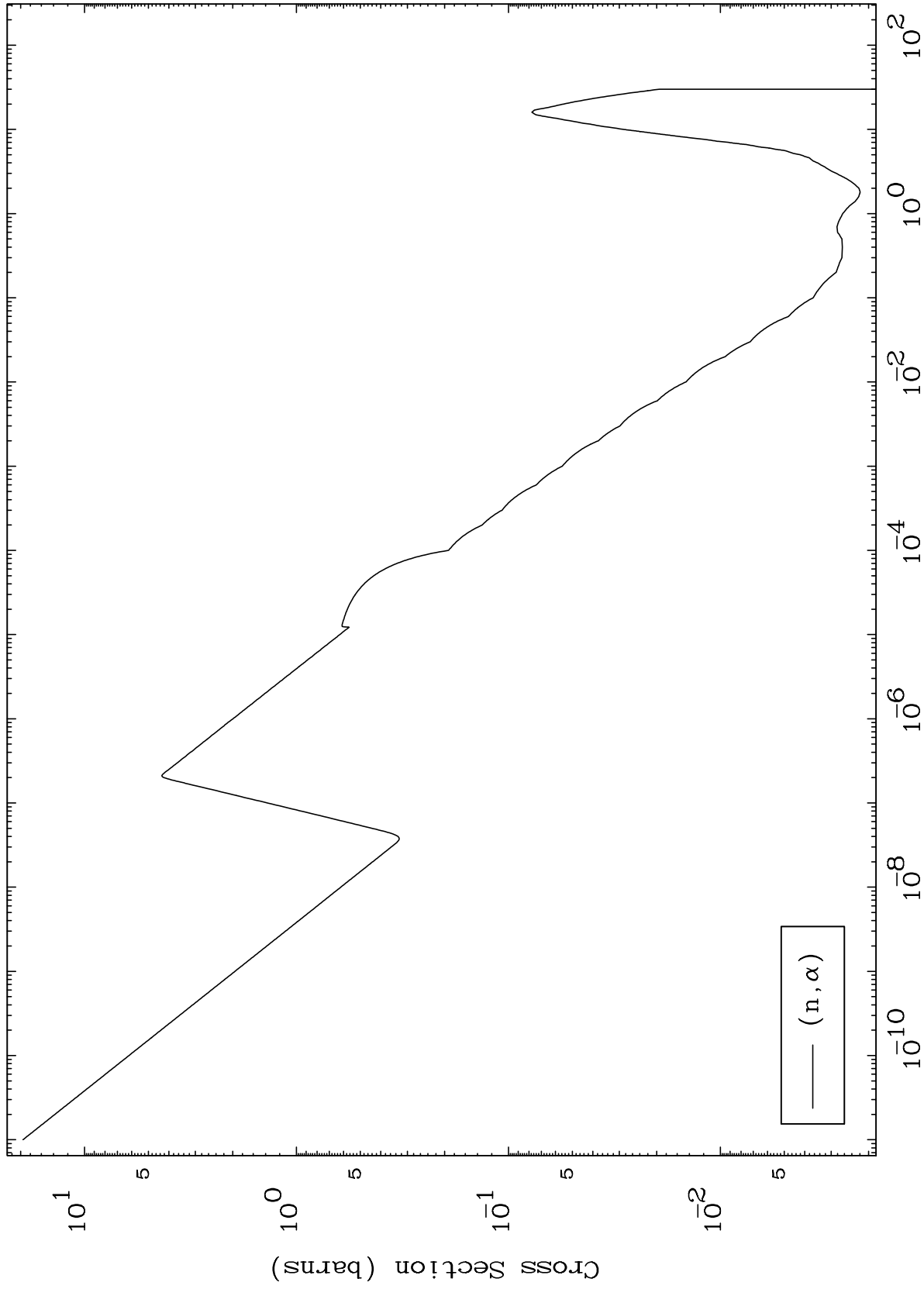
Incident Energy (MeV)

61-Pm-138

MAT 6122

(n,α) Levels
293 Kelvin Cross Sections

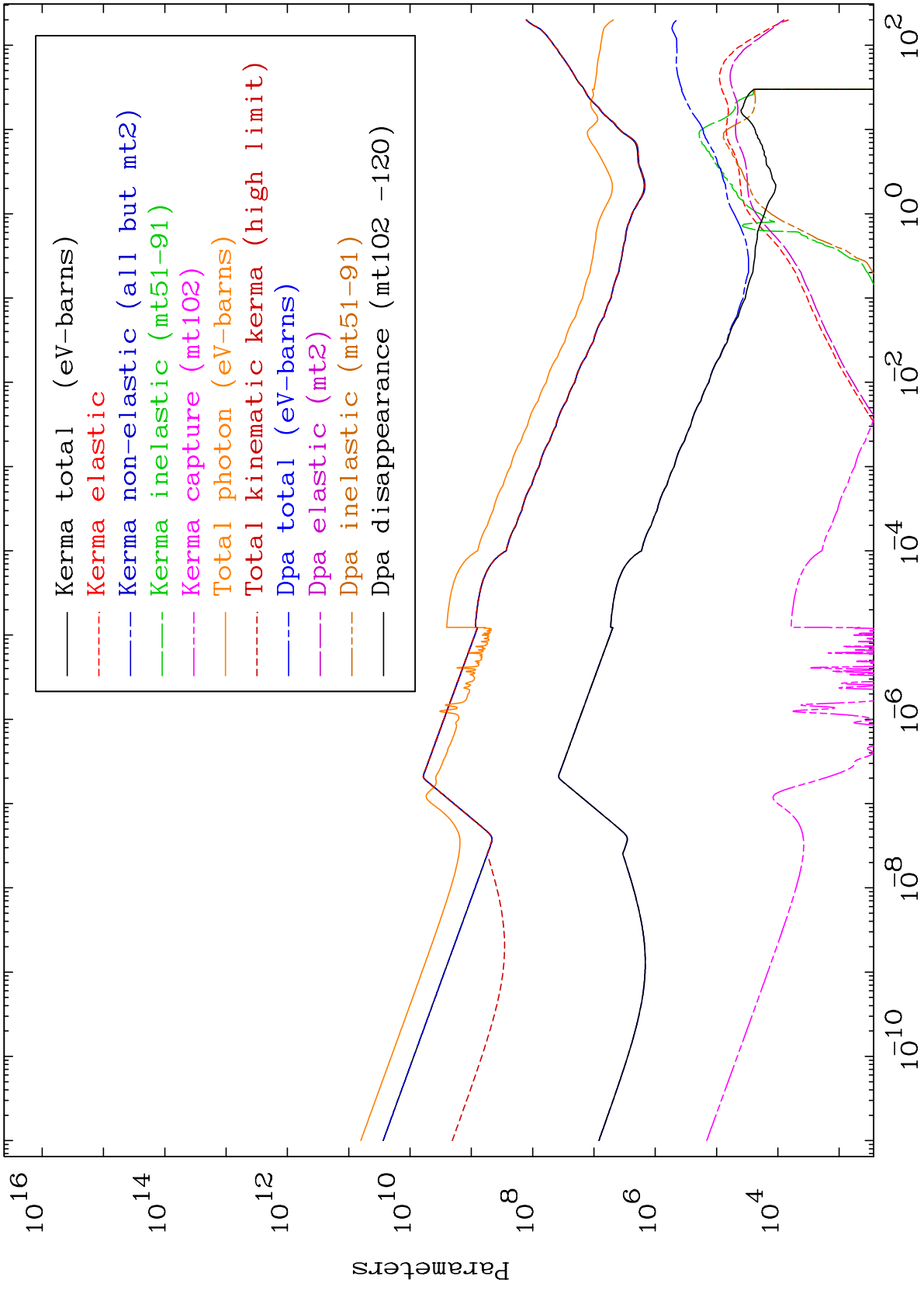
61-Pm-138



14

Incident Energy (MeV)

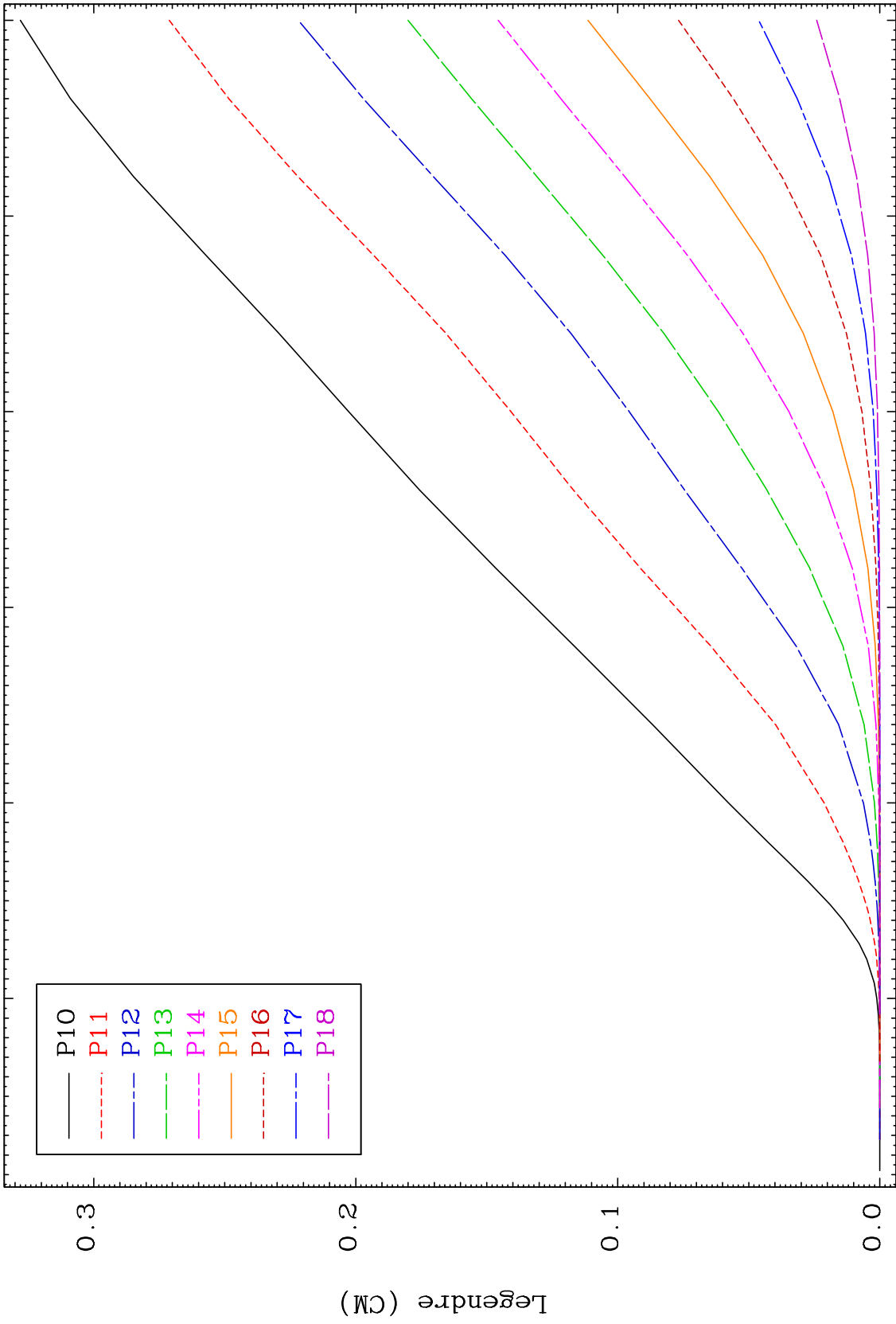
61-Pm-138



MAT 6122

Elastic Legendre Coefficients

61-Pm-138



17

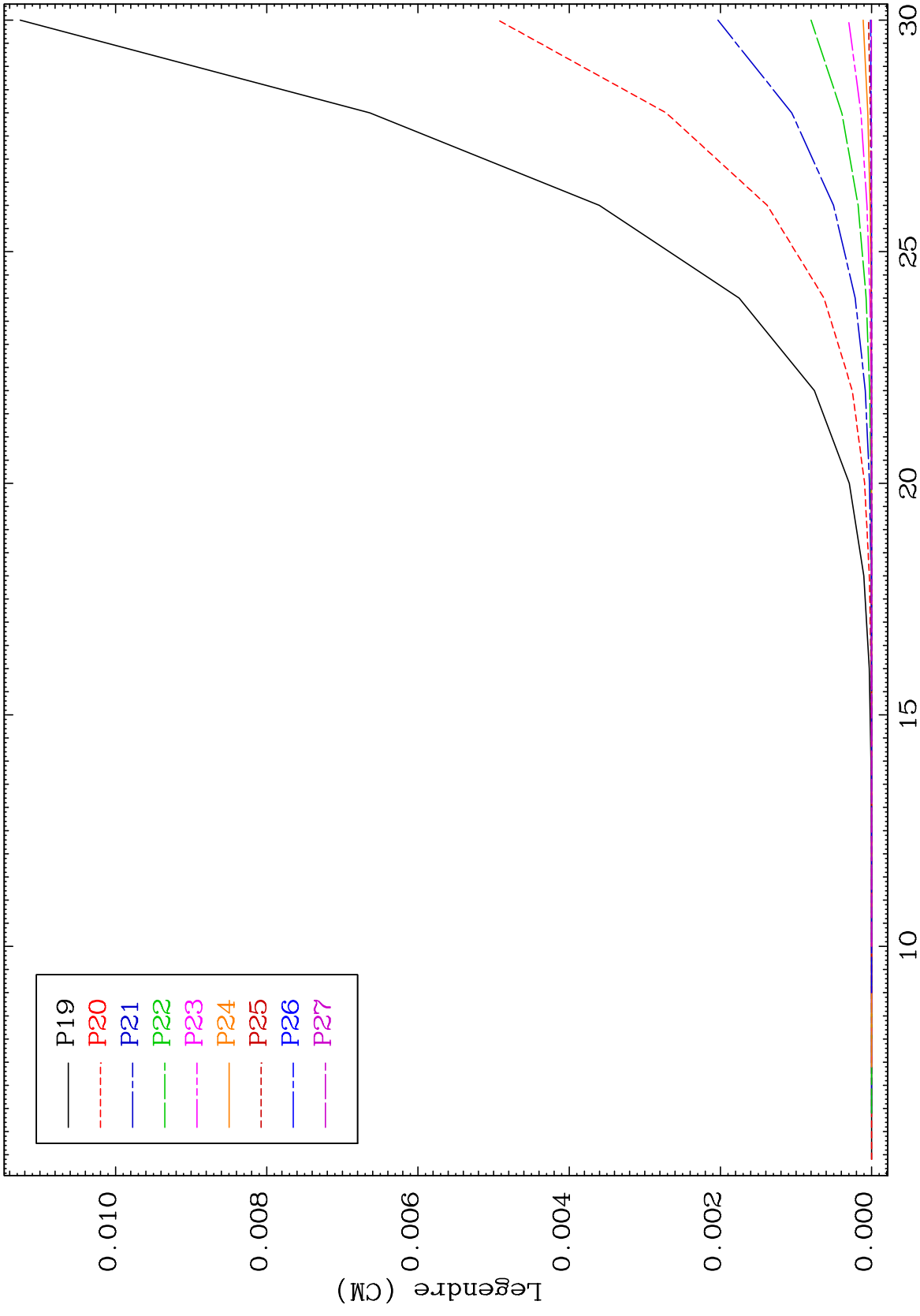
Incident Energy (MeV)

61-Pm-138

MAT 6122

Elastic Legendre Coefficients

61-Pm-138



18

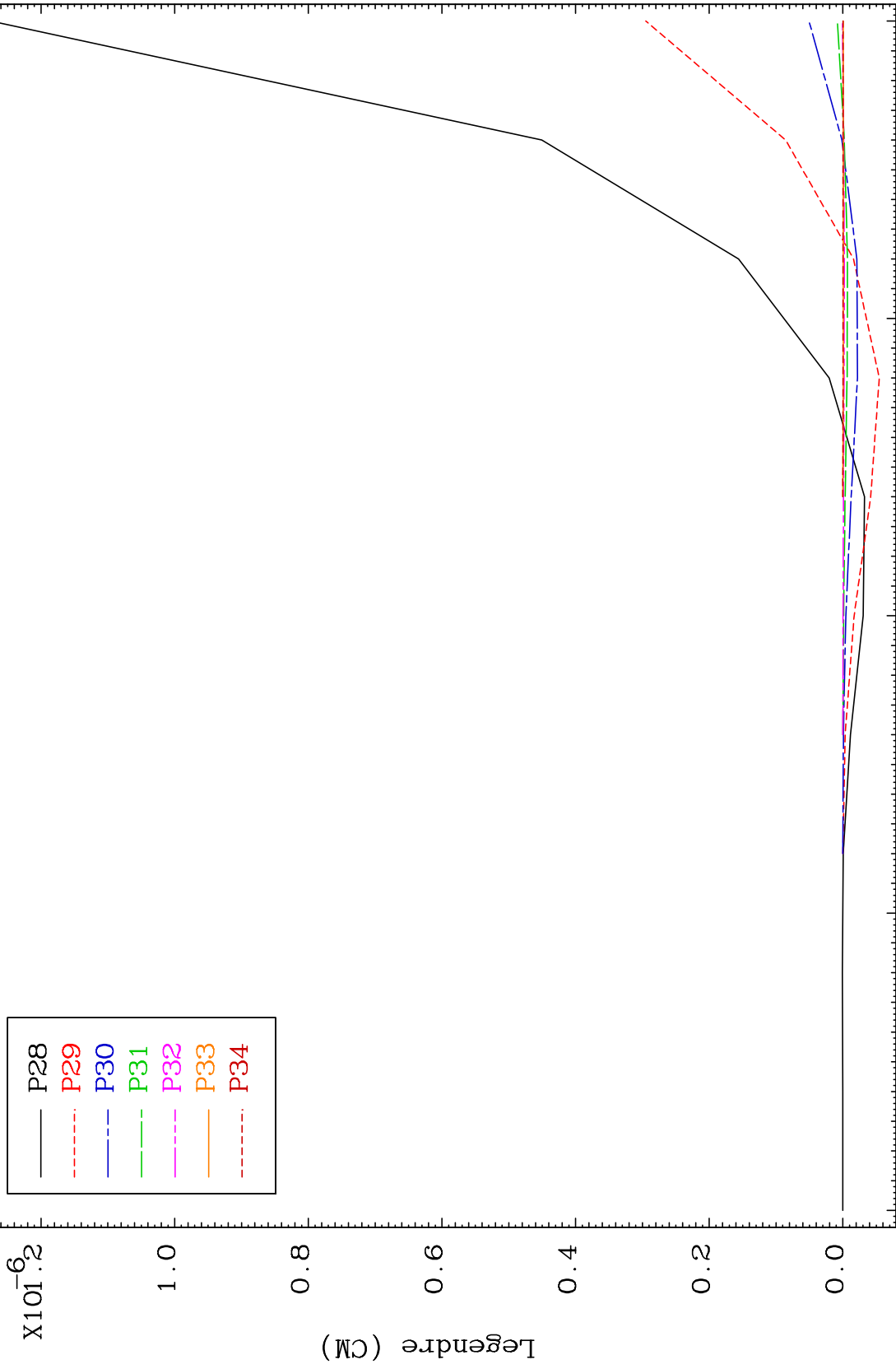
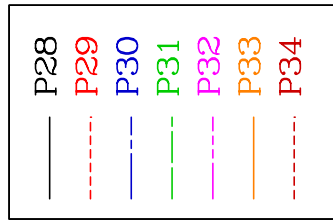
Incident Energy (MeV)

61-Pm-138

MAT 6122

Elastic Legendre Coefficients

61-Pm-138

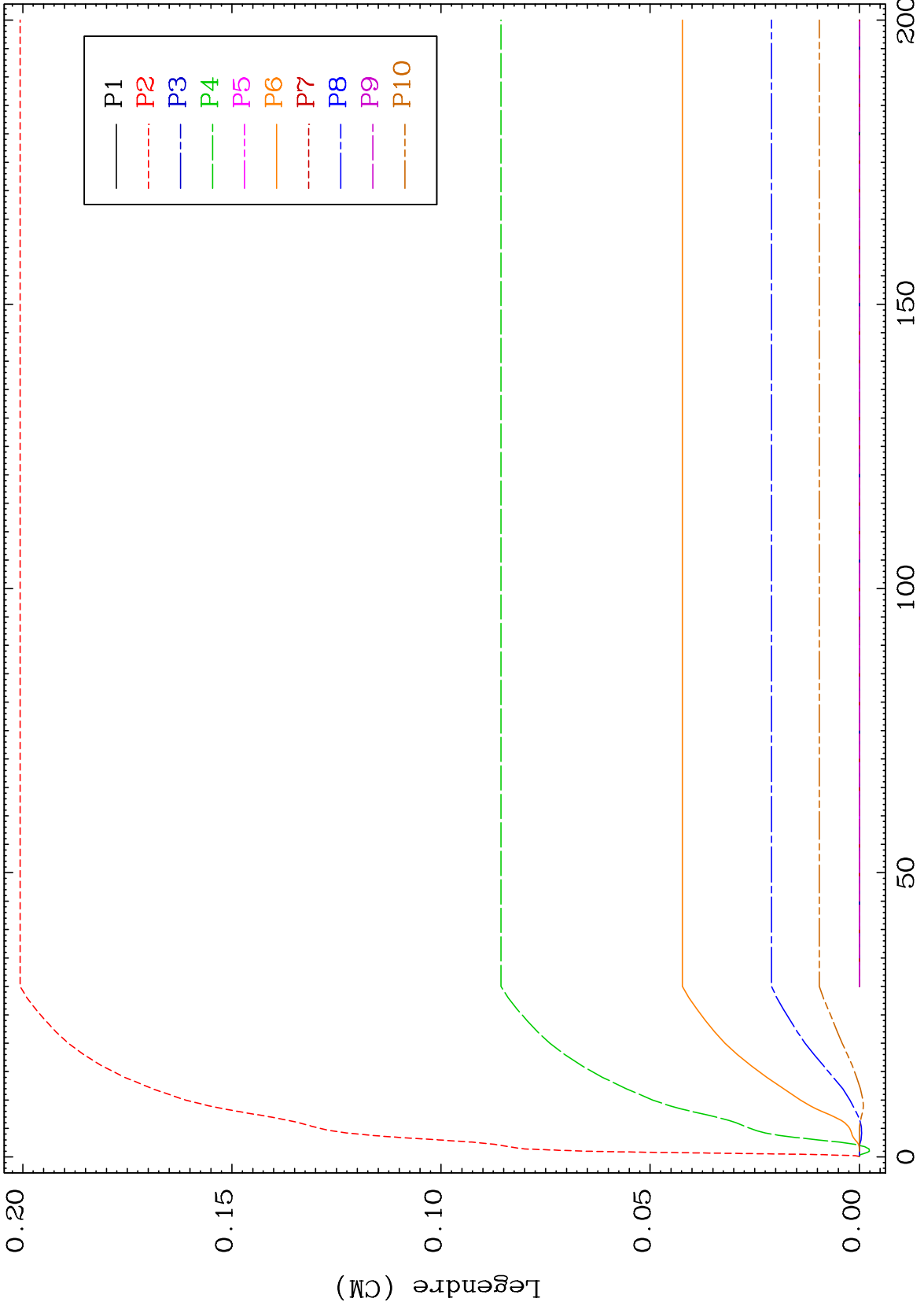


19

Incident Energy (MeV)

61-Pm-138

MAT 6122 MT= 51 (n,n') Level Legendre Coefficients 61-Pm-138

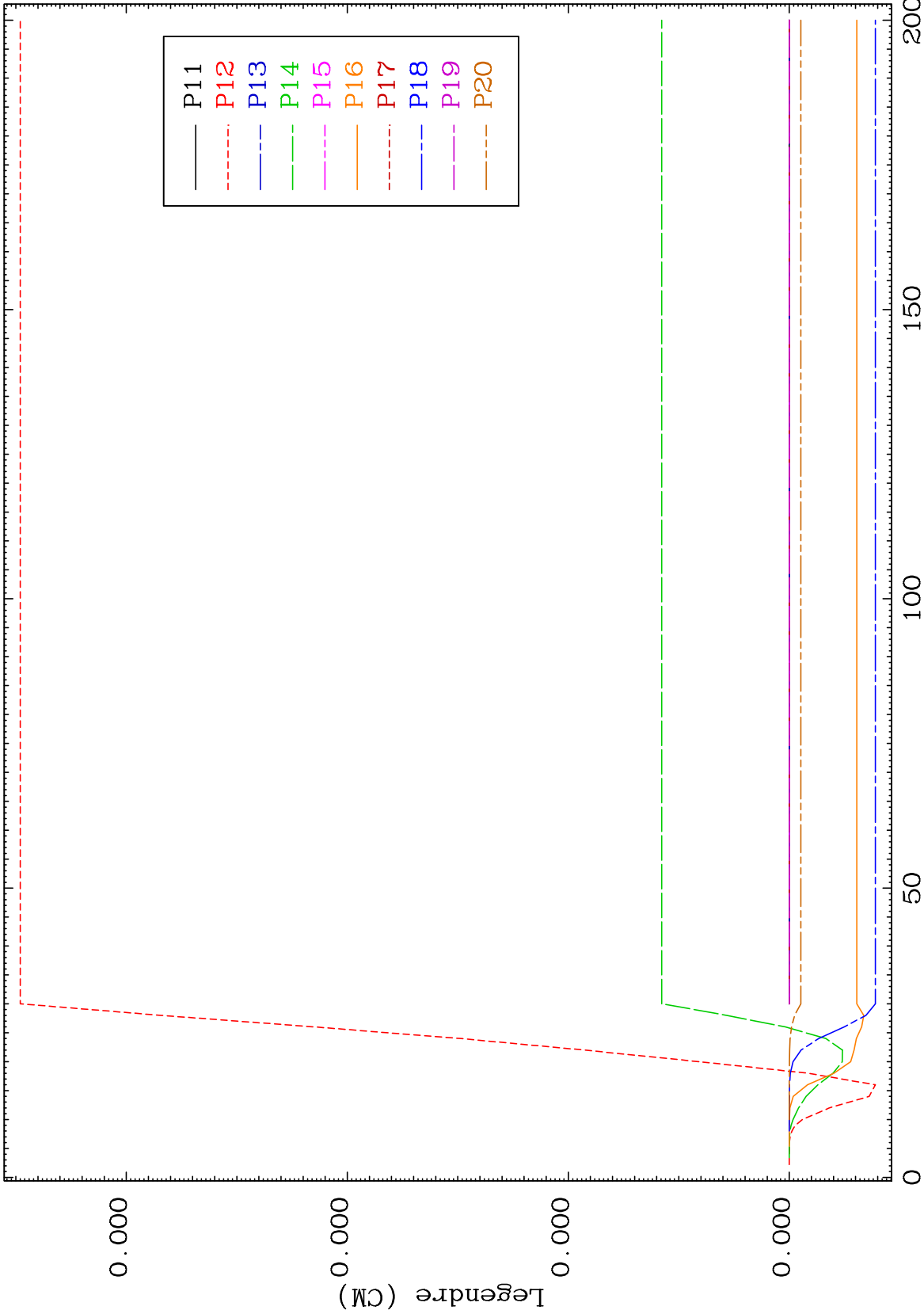


61-Pm-138 Incident Energy (MeV)

MAT 6122

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

61-Pm-138



21

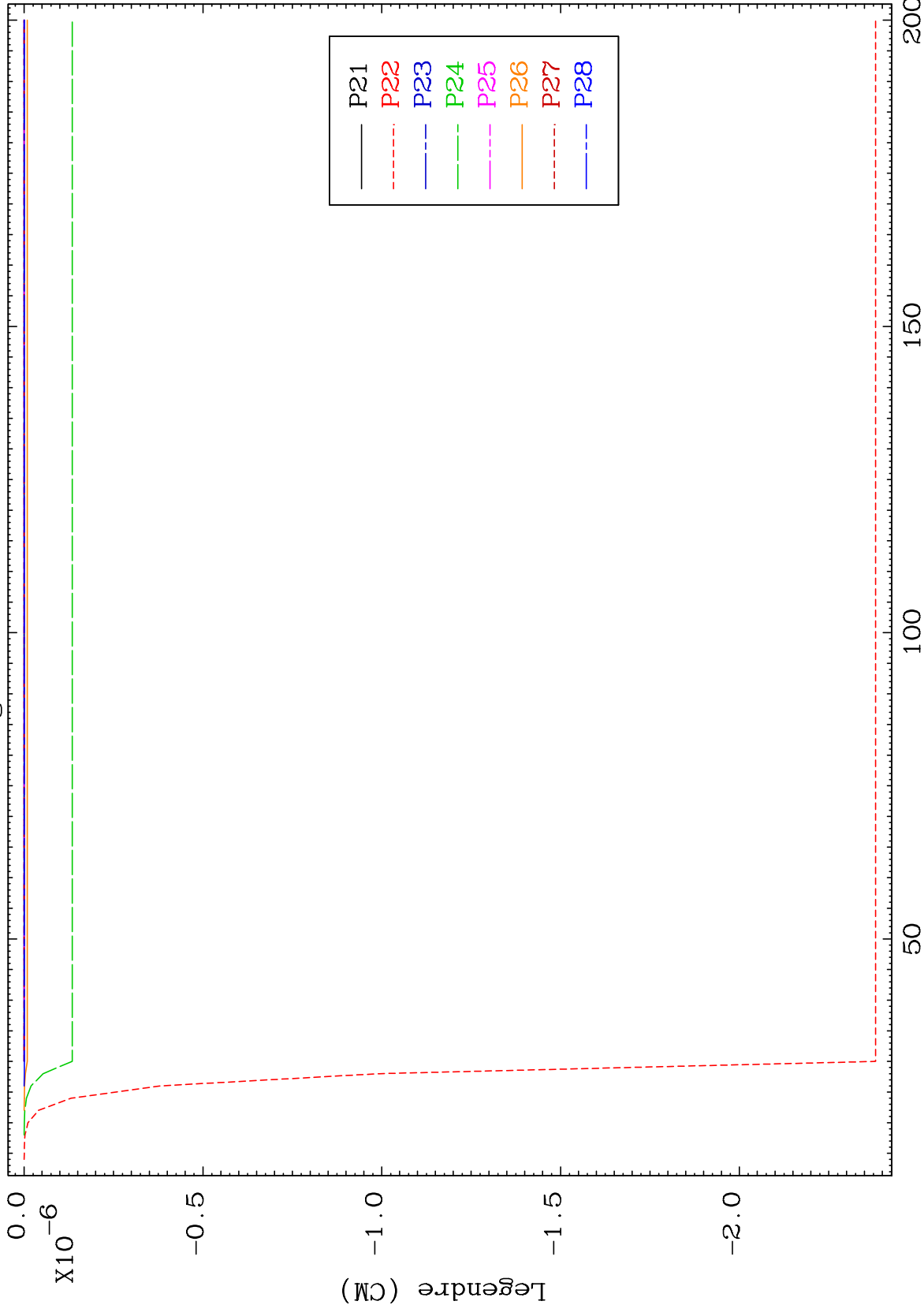
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

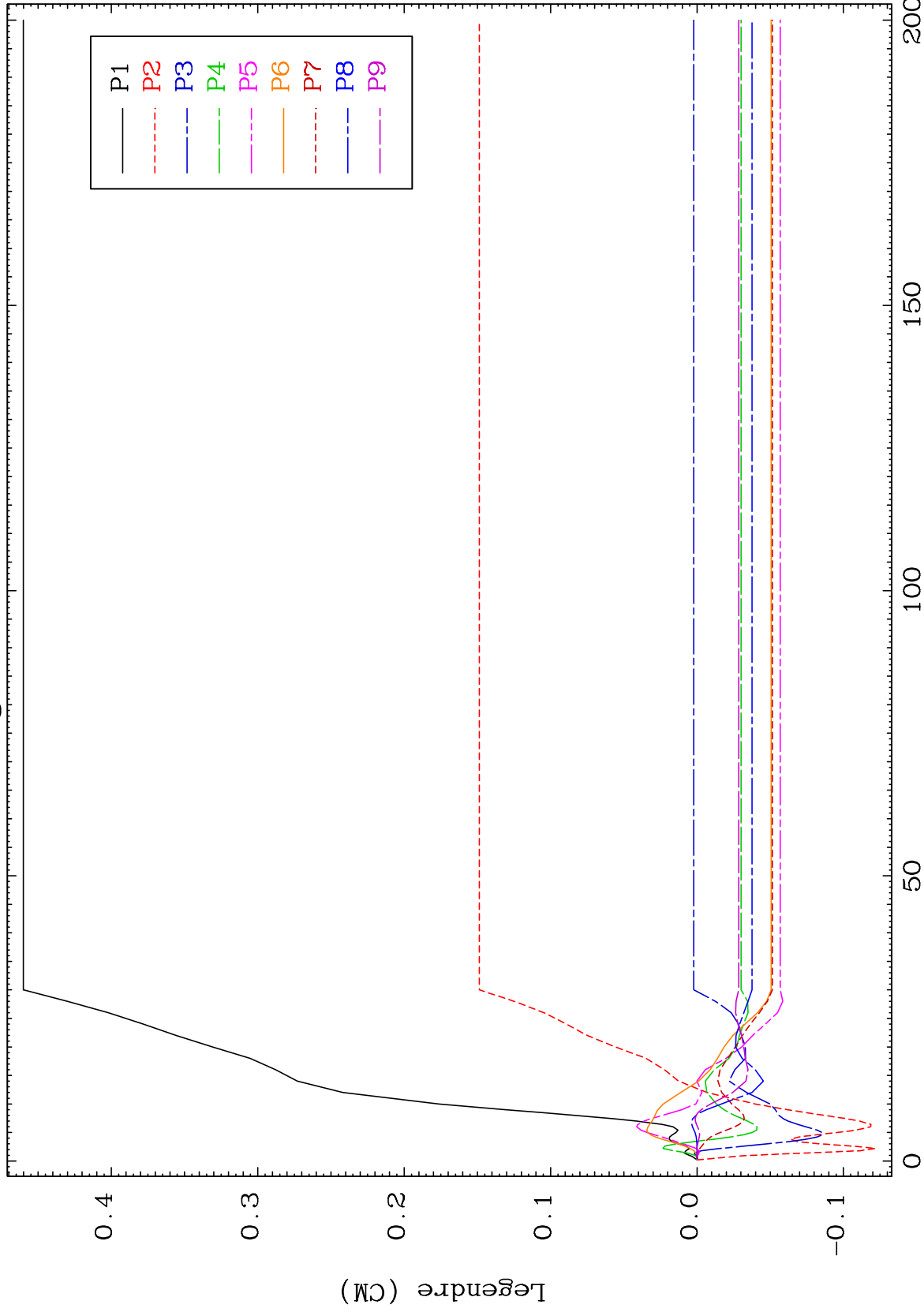
Incident Energy (MeV)

22

MAT 6122

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

61-Pm-138



23

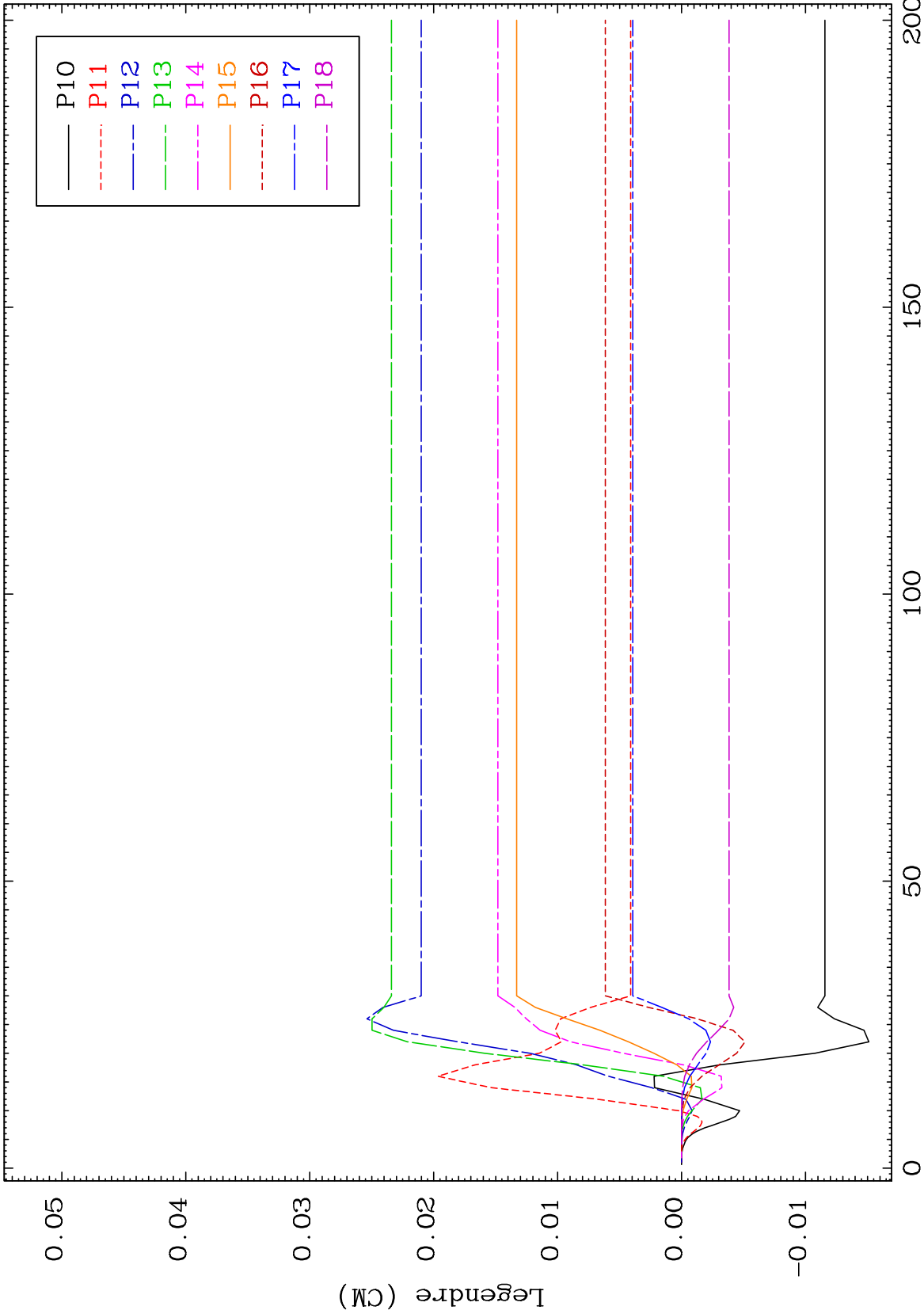
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



24

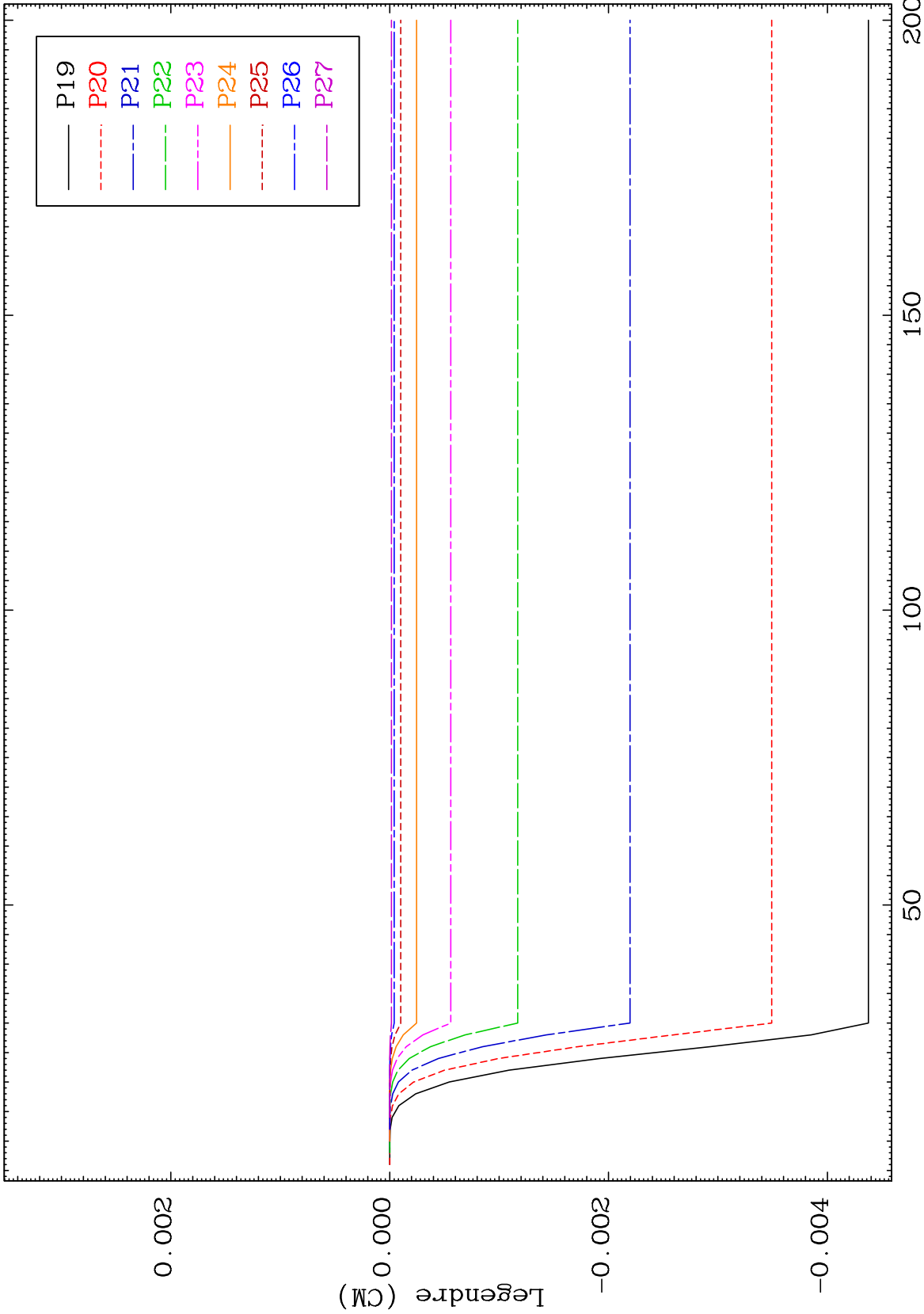
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



25

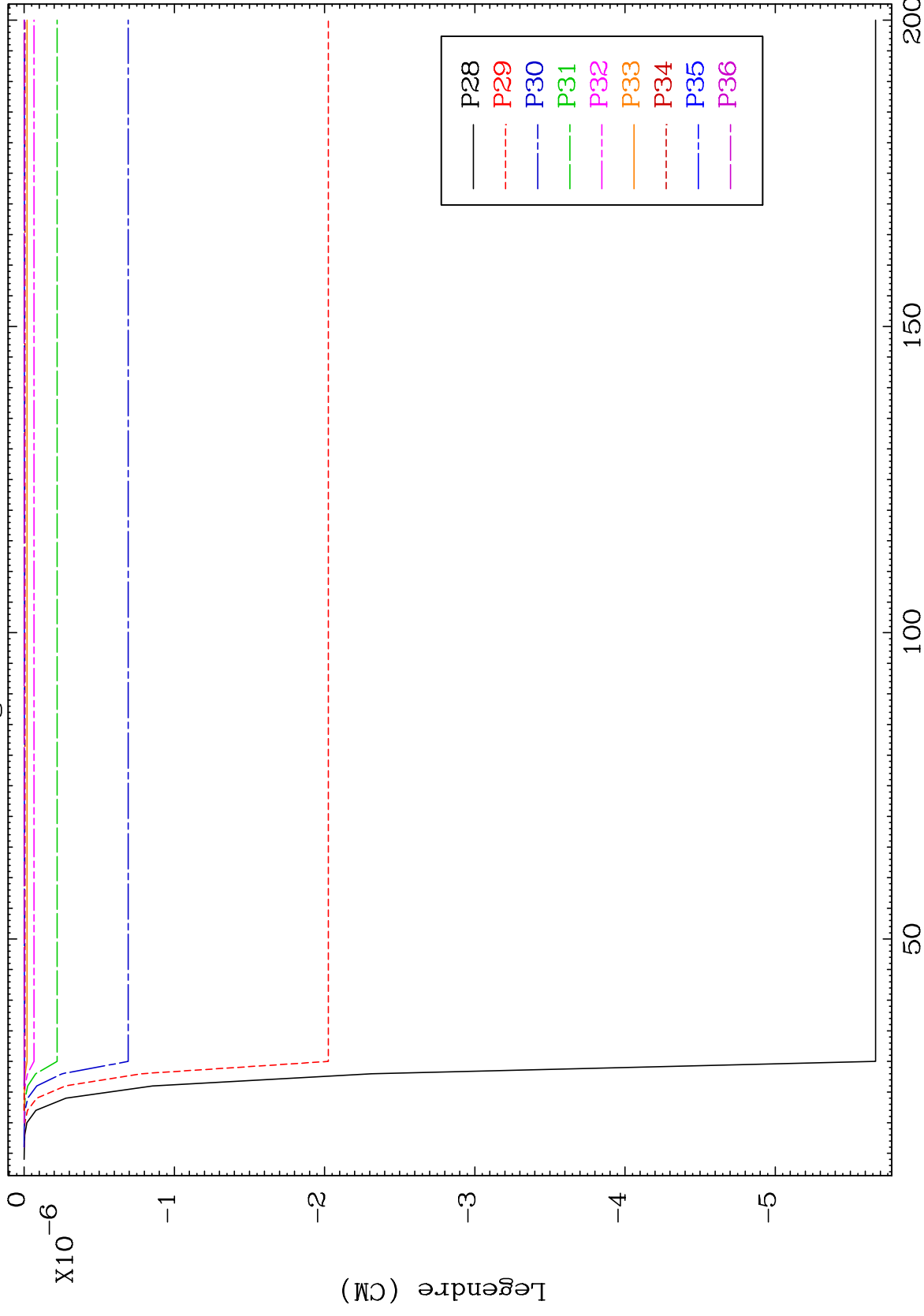
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

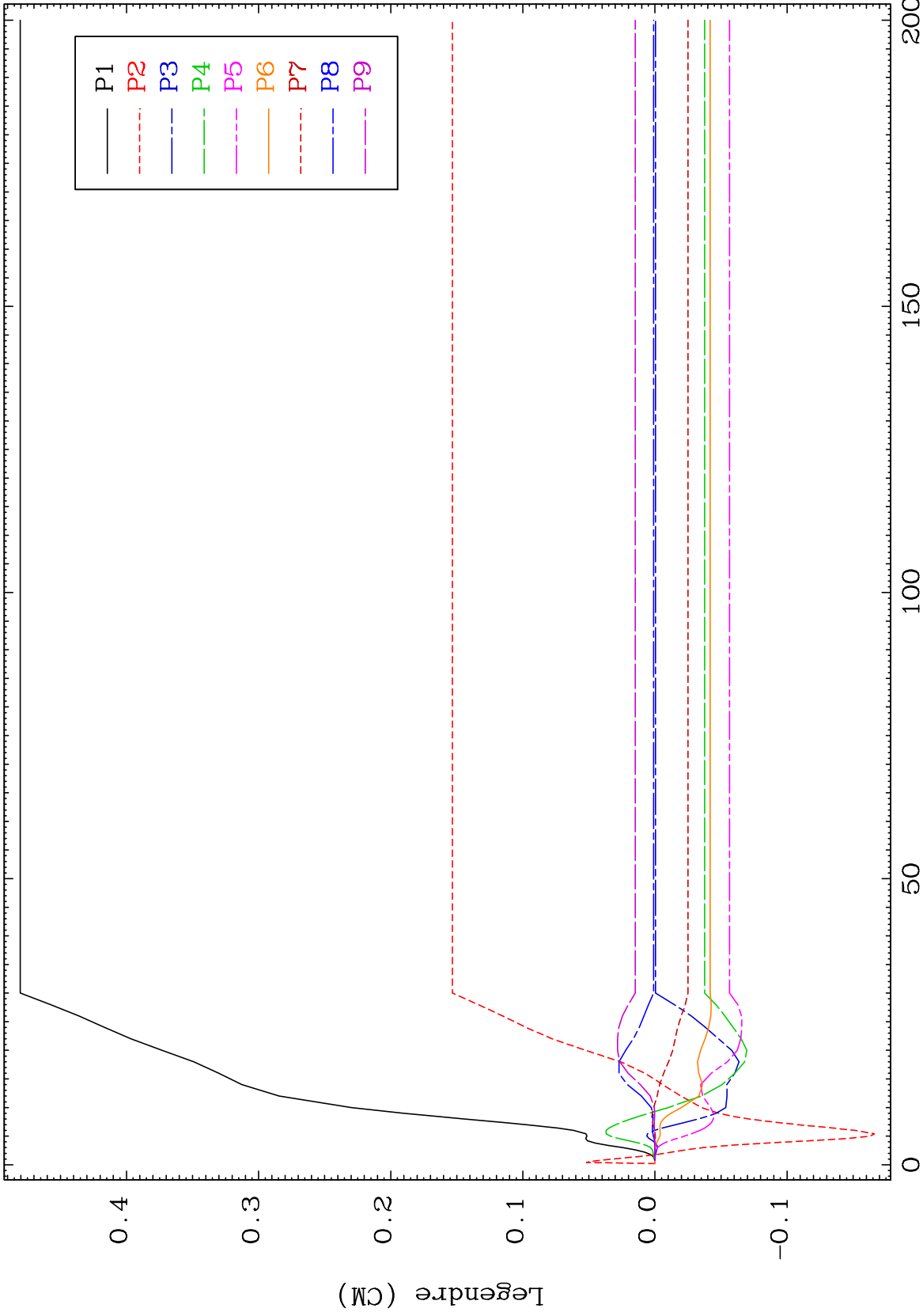
Incident Energy (MeV)

26

MAT 6122

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

61-Pm-138



27

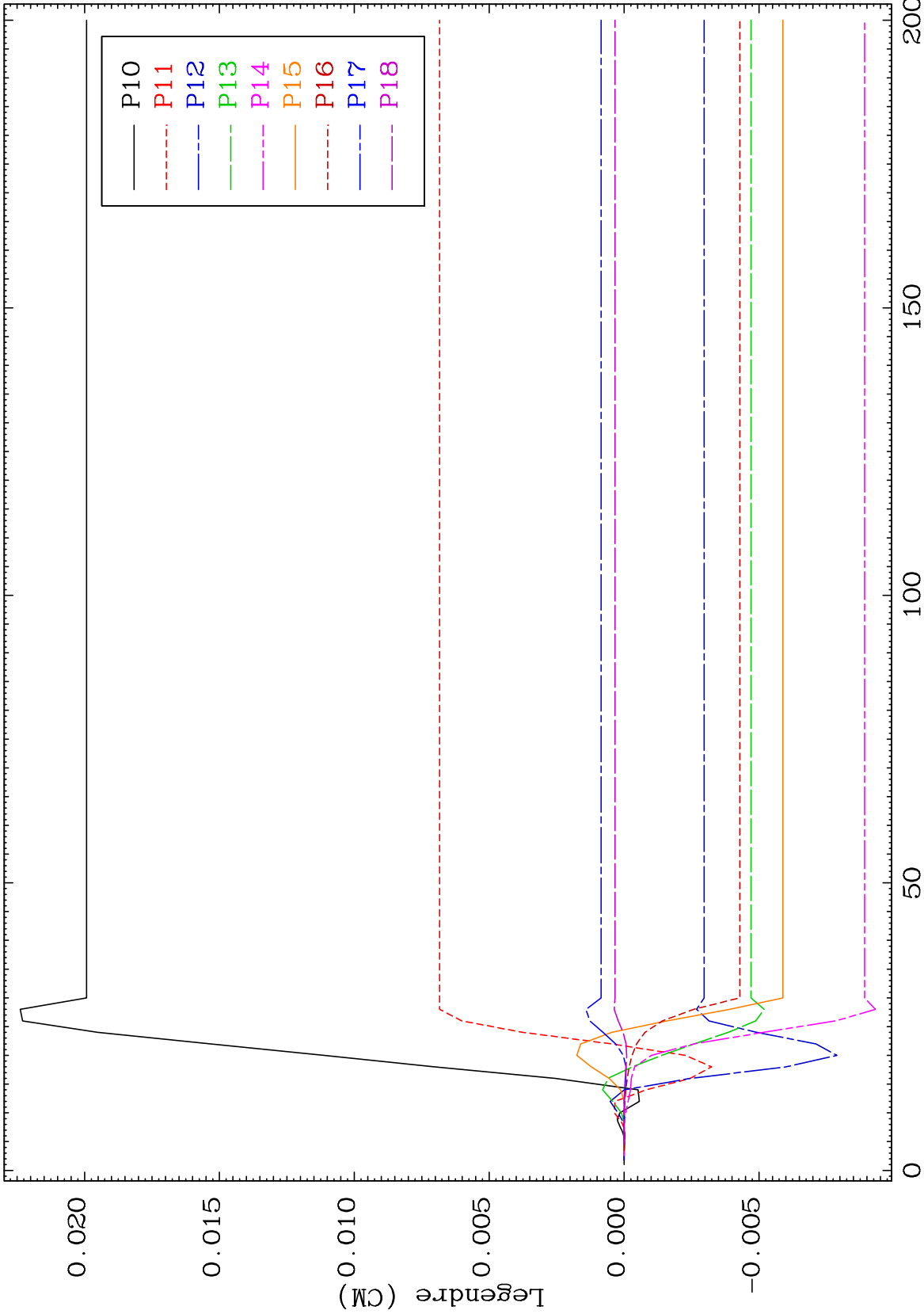
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



28

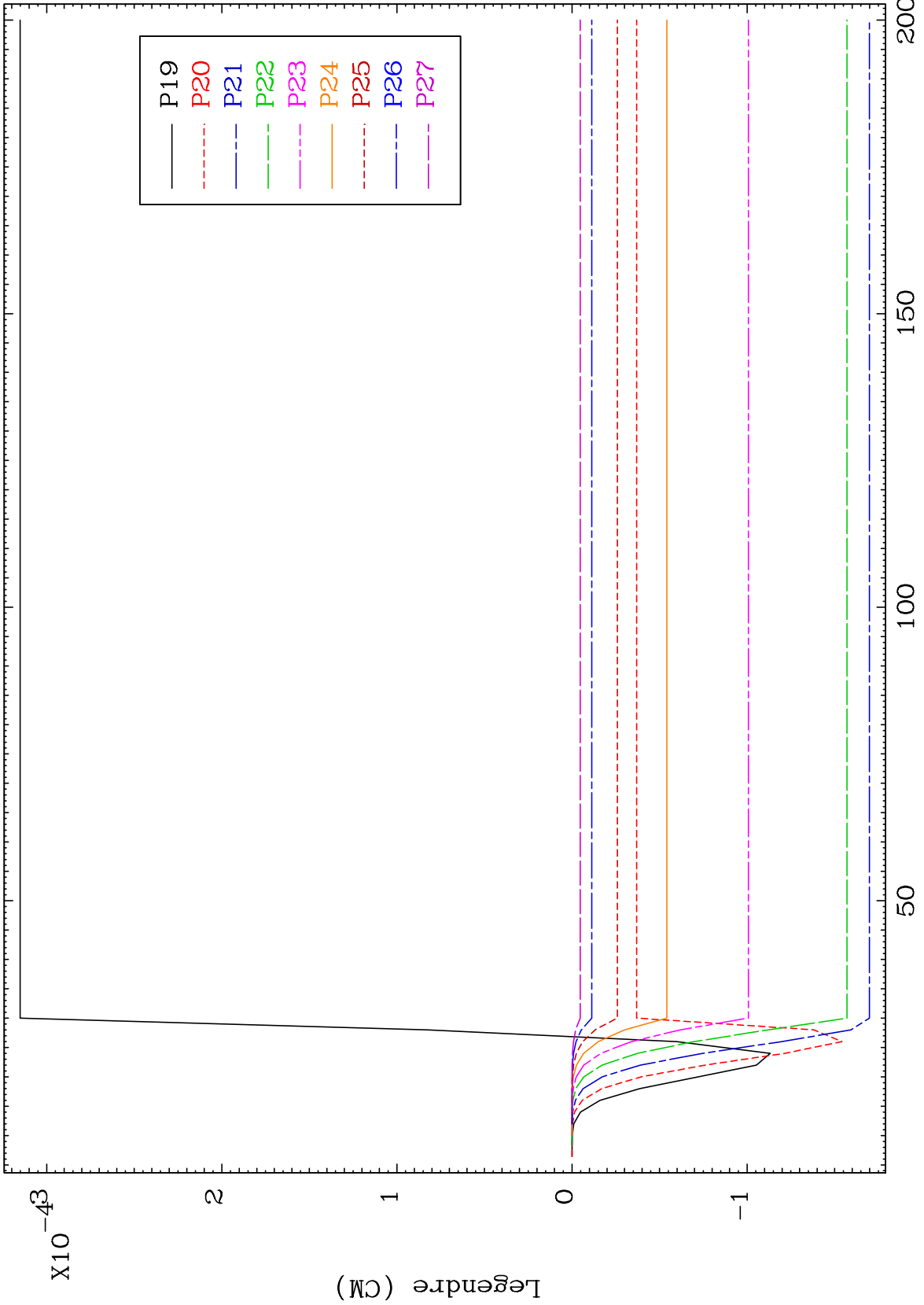
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



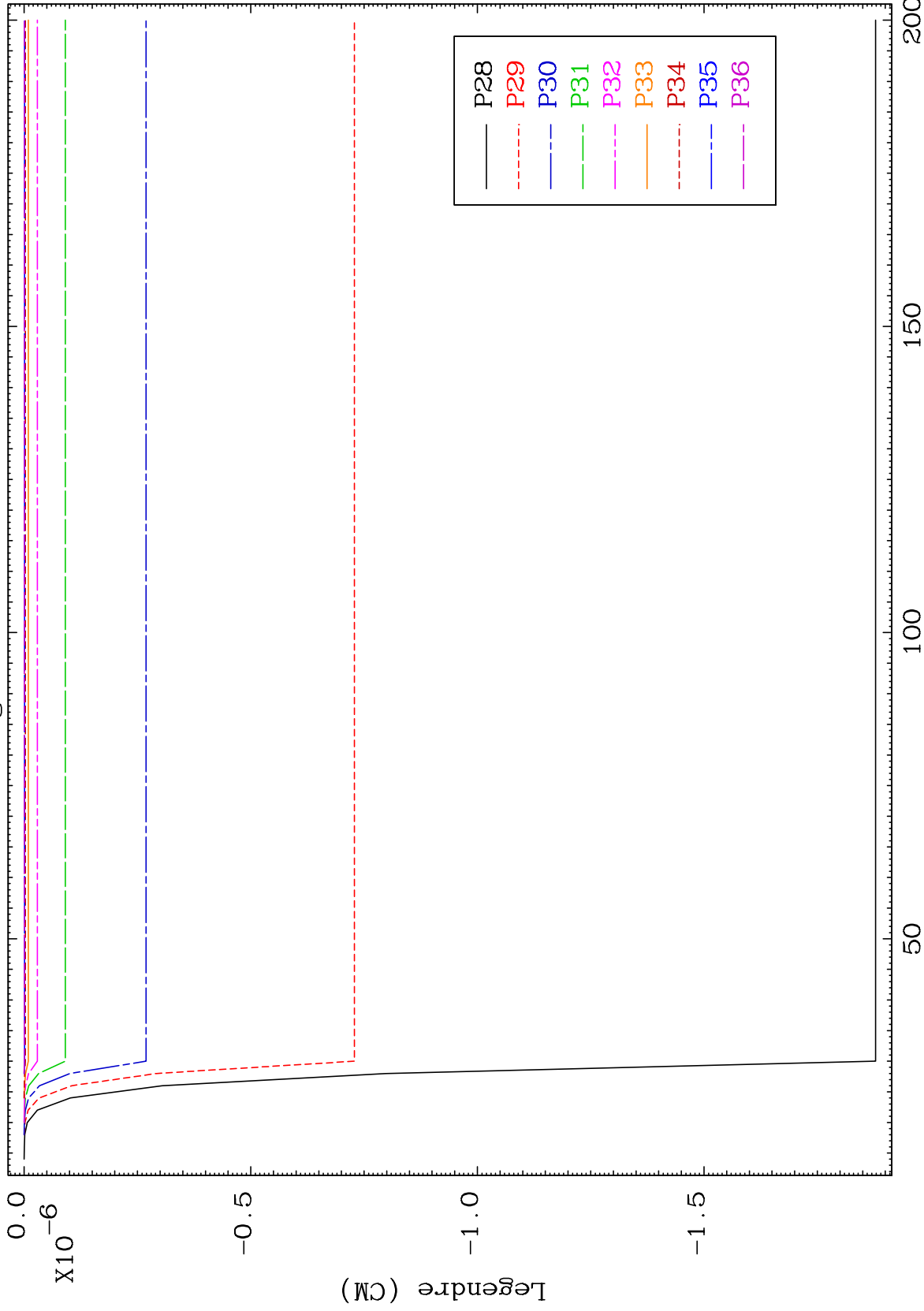
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61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

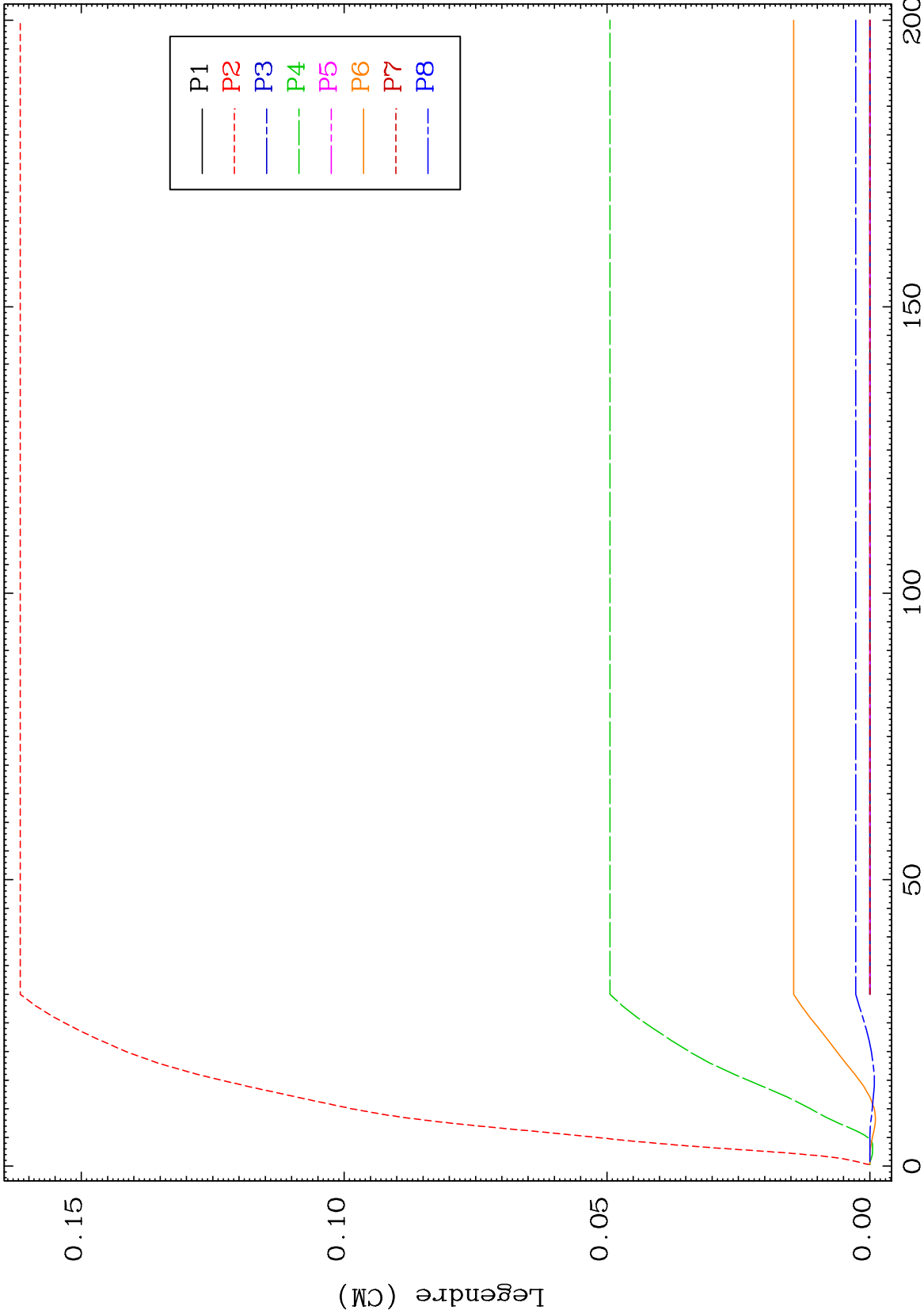
Incident Energy (MeV)

30

MAT 6122

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

61-Pm-138



31

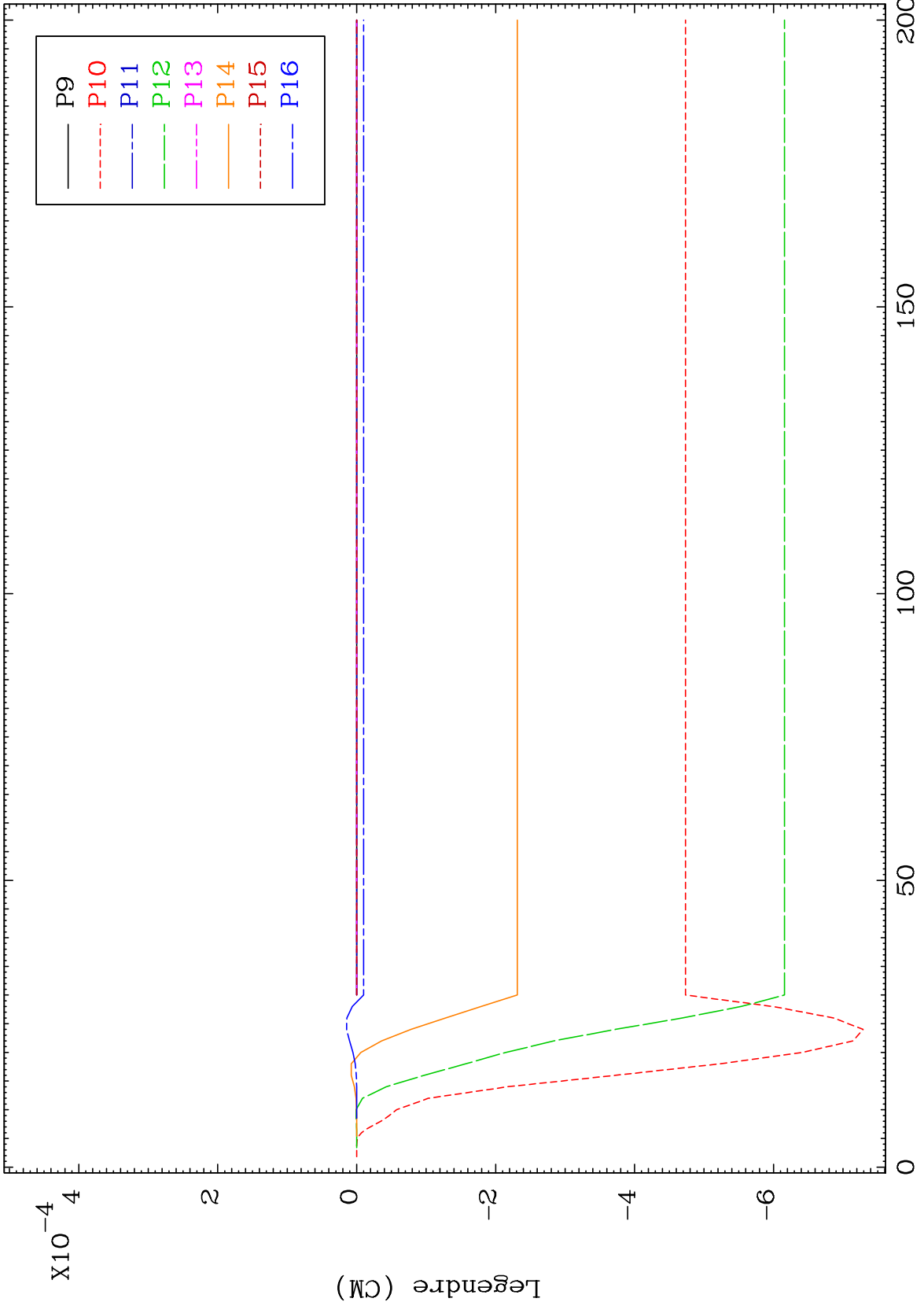
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



32

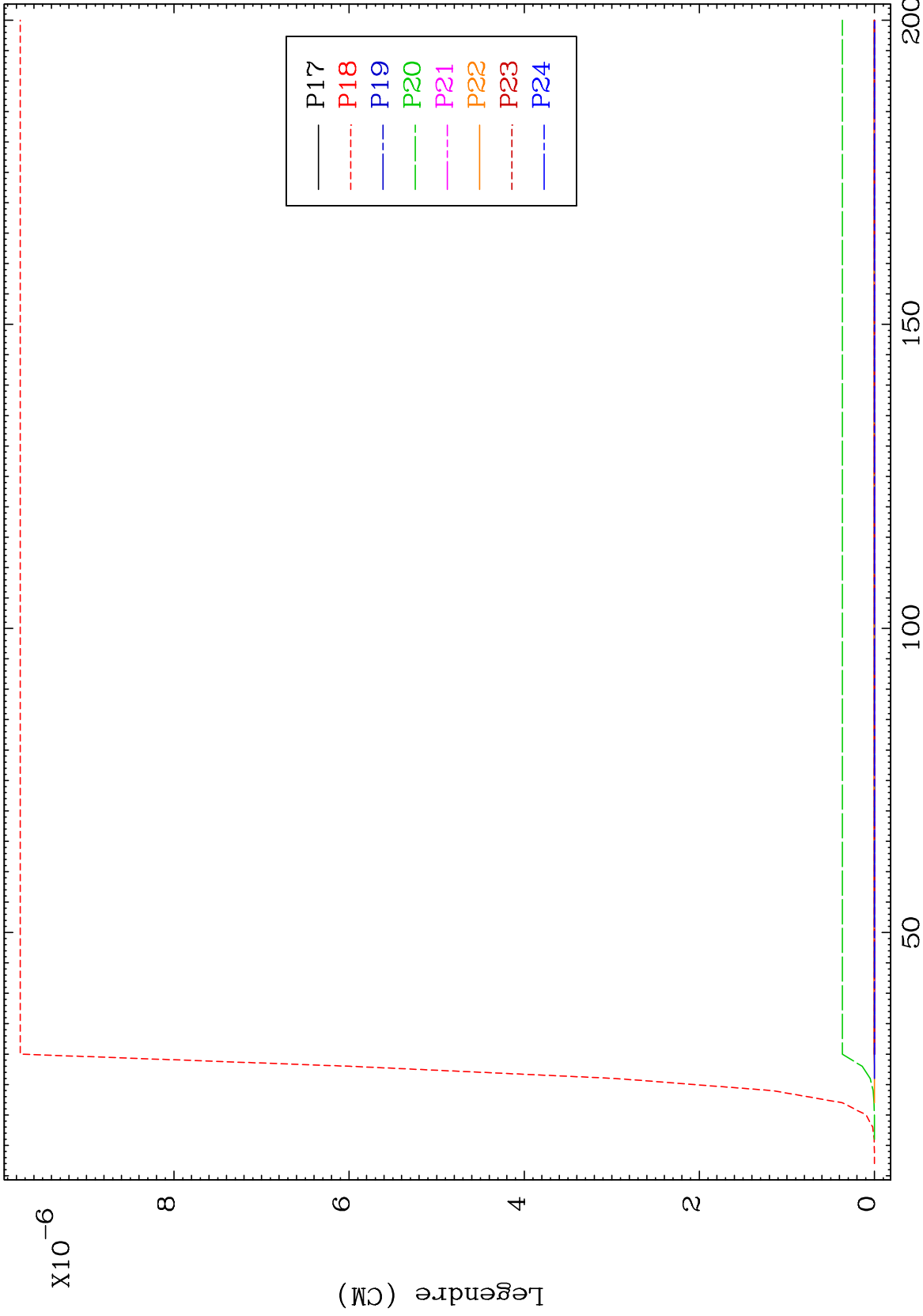
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



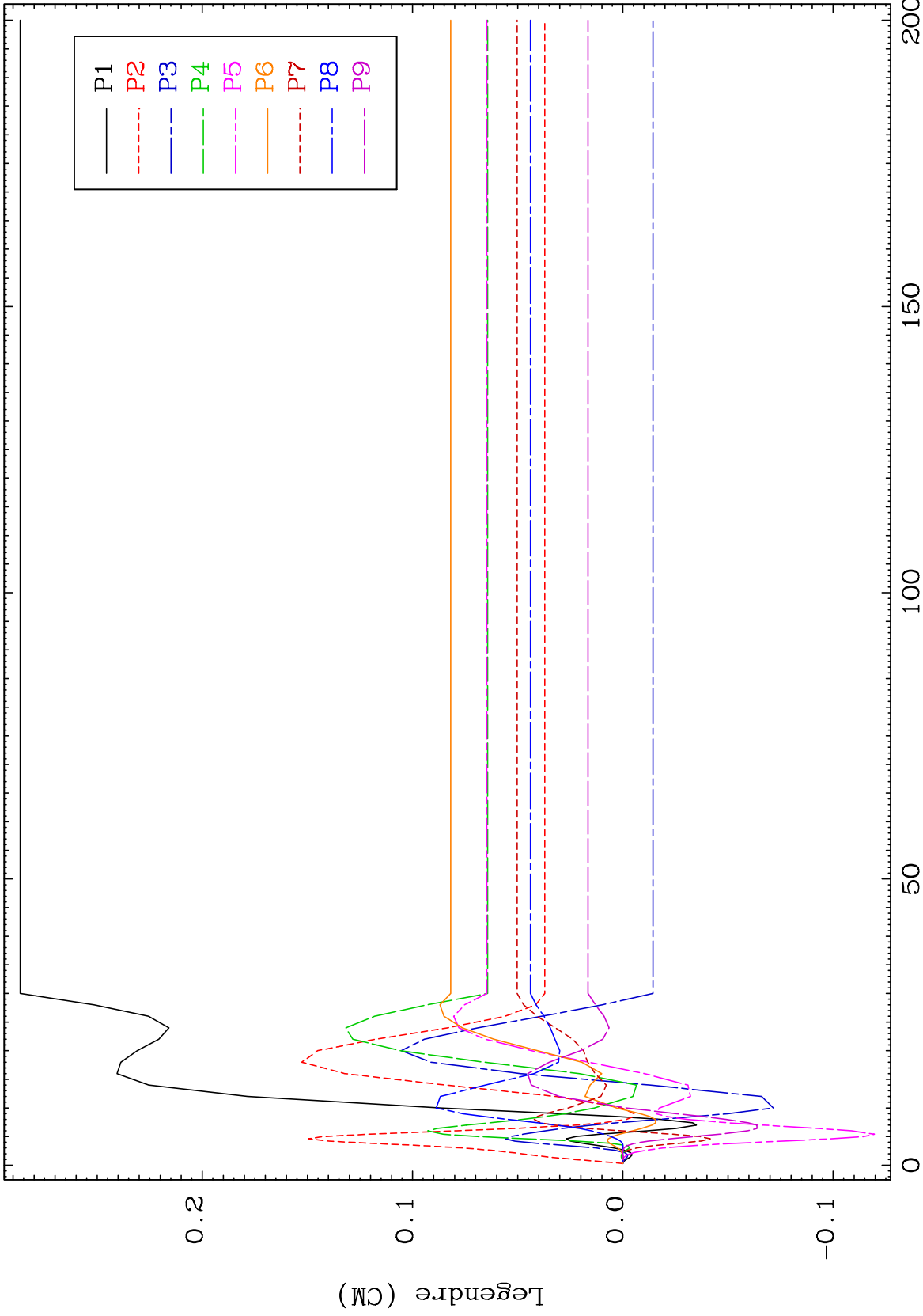
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61-Pm-138

MAT 6122

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

61-Pm-138



34

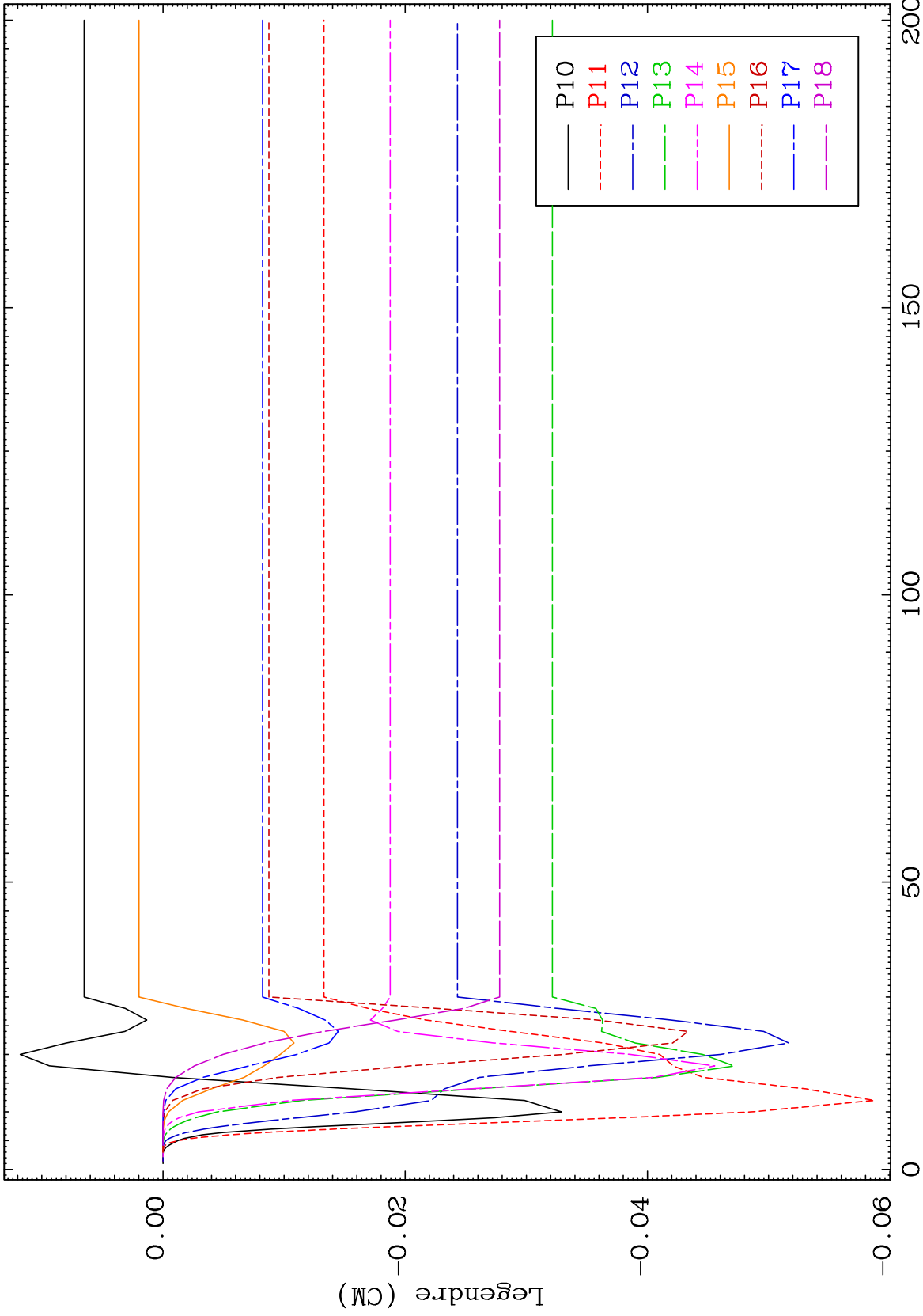
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



35

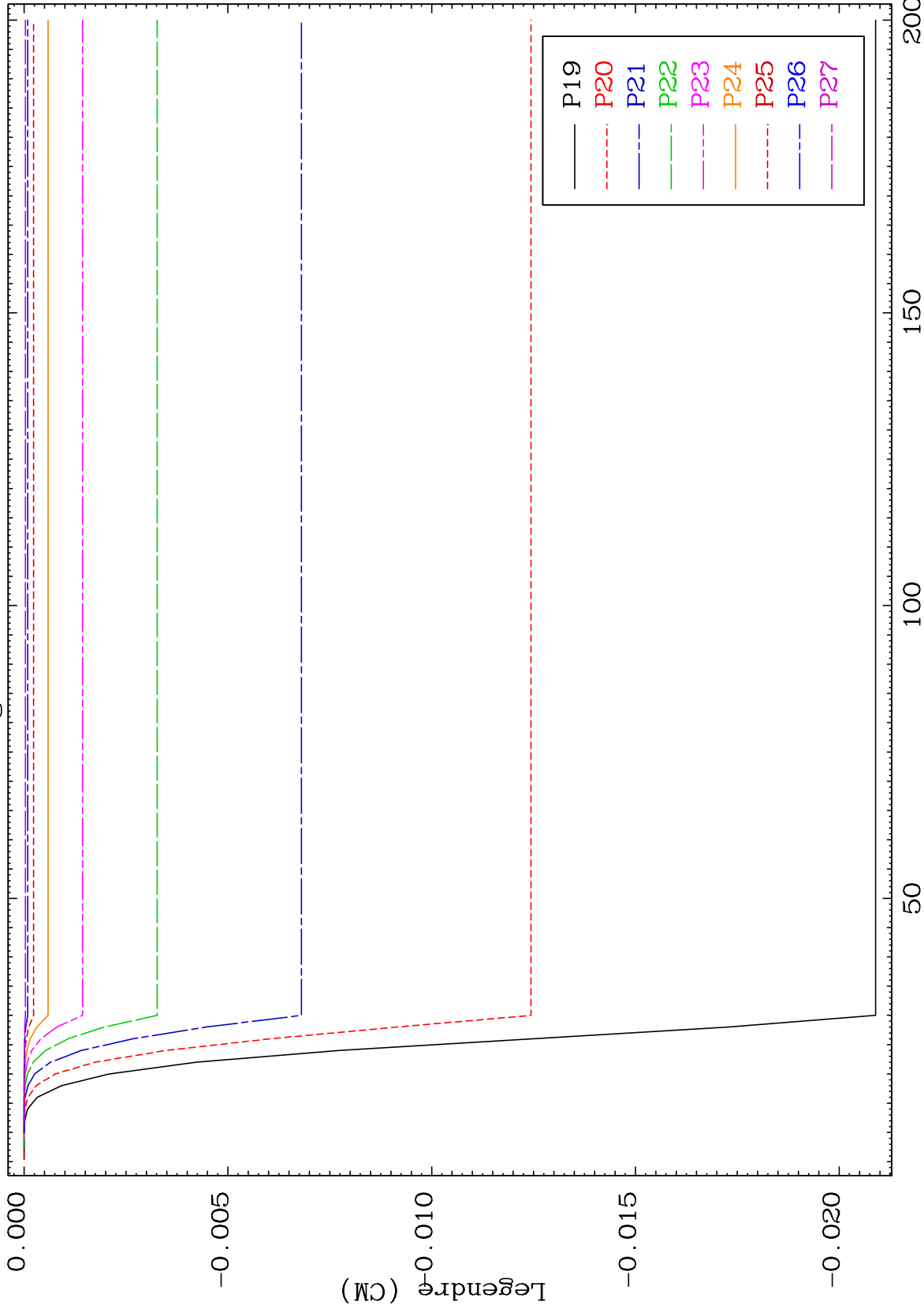
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

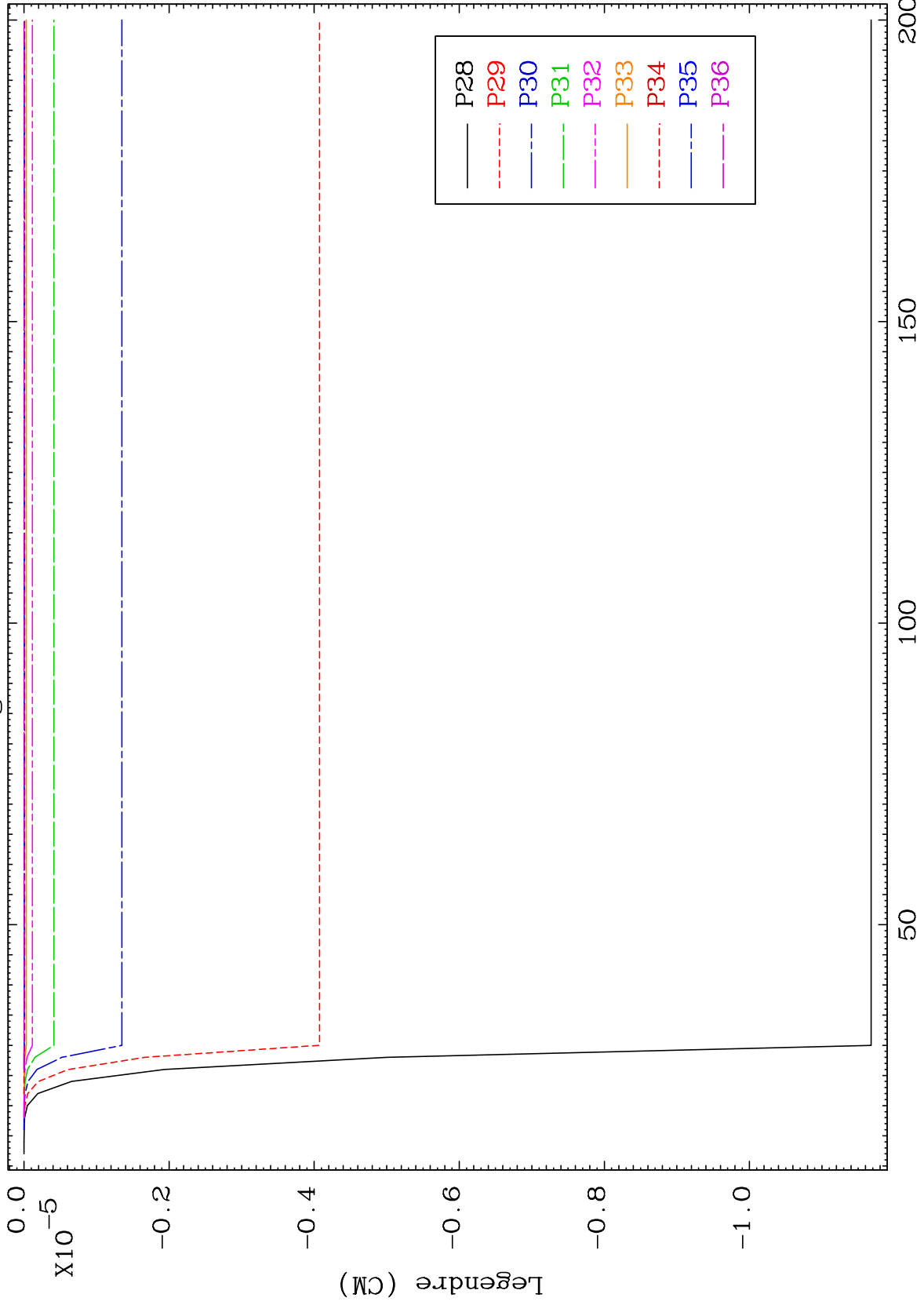
Incident Energy (MeV)

36

MAT 6122

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

61-Pm-138



61-Pm-138

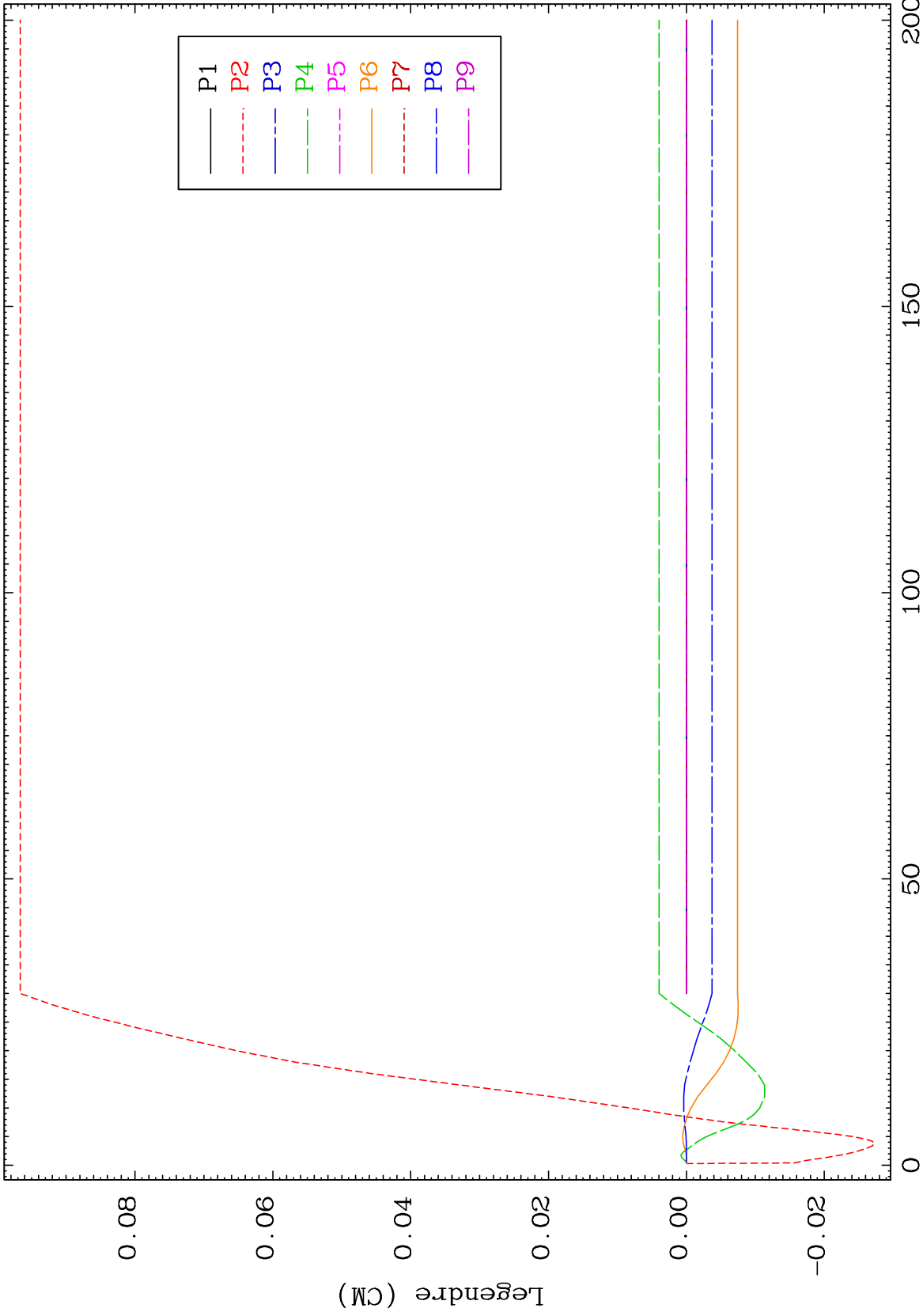
Incident Energy (MeV)

37

MAT 6122

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

61-Pm-138



38

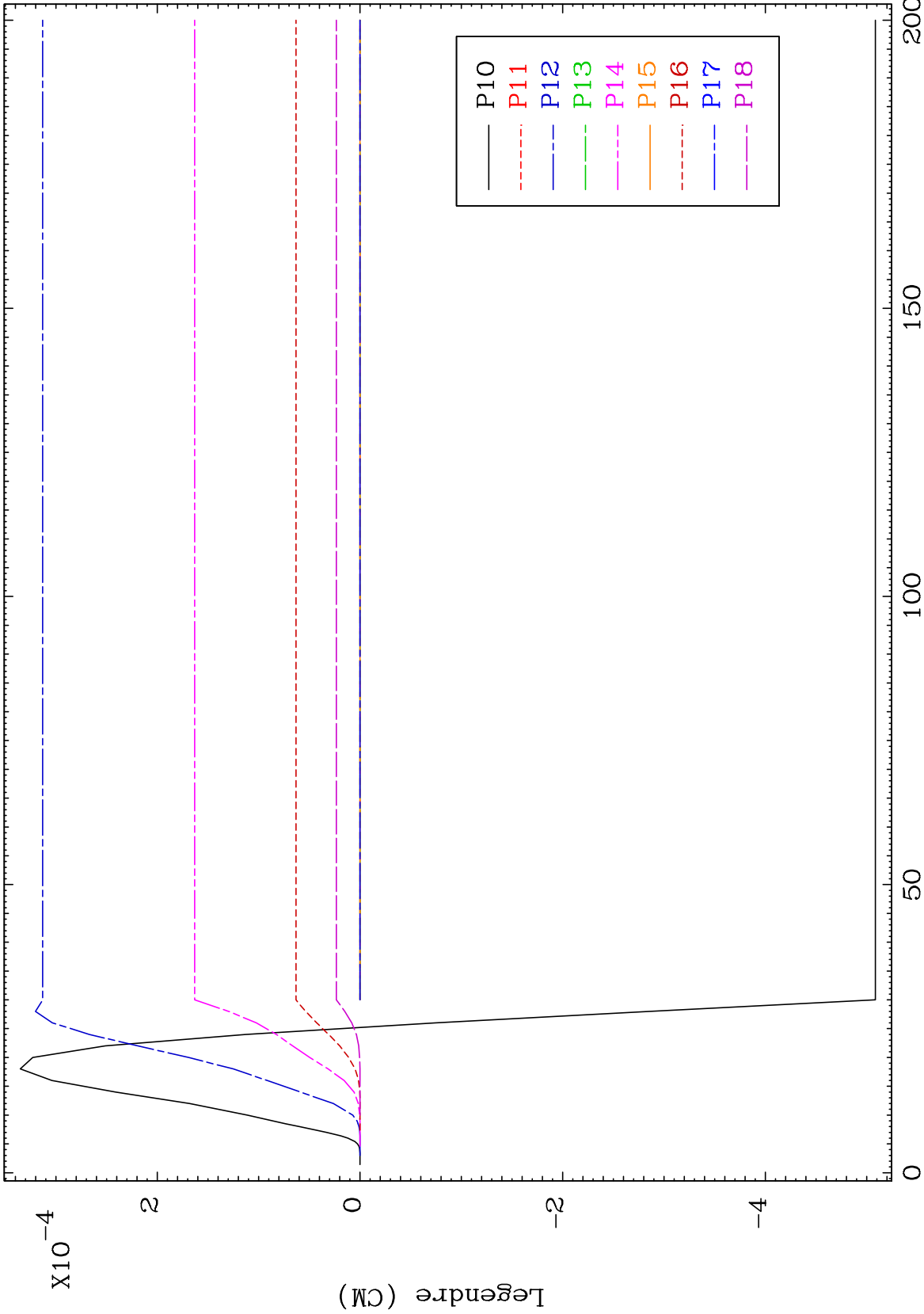
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



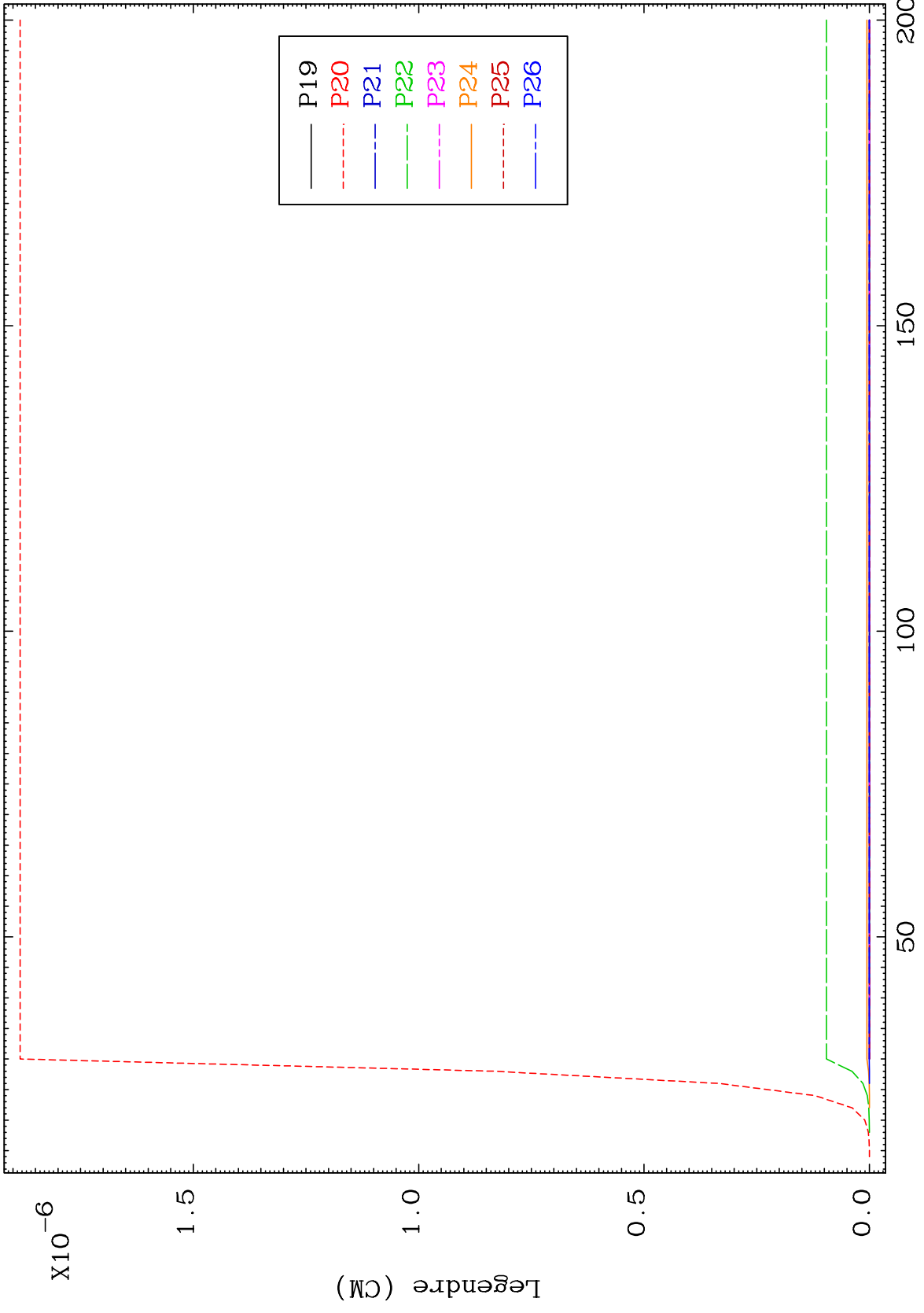
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61-Pm-138

MAT 6122

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

61-Pm-138



40

50

100

150

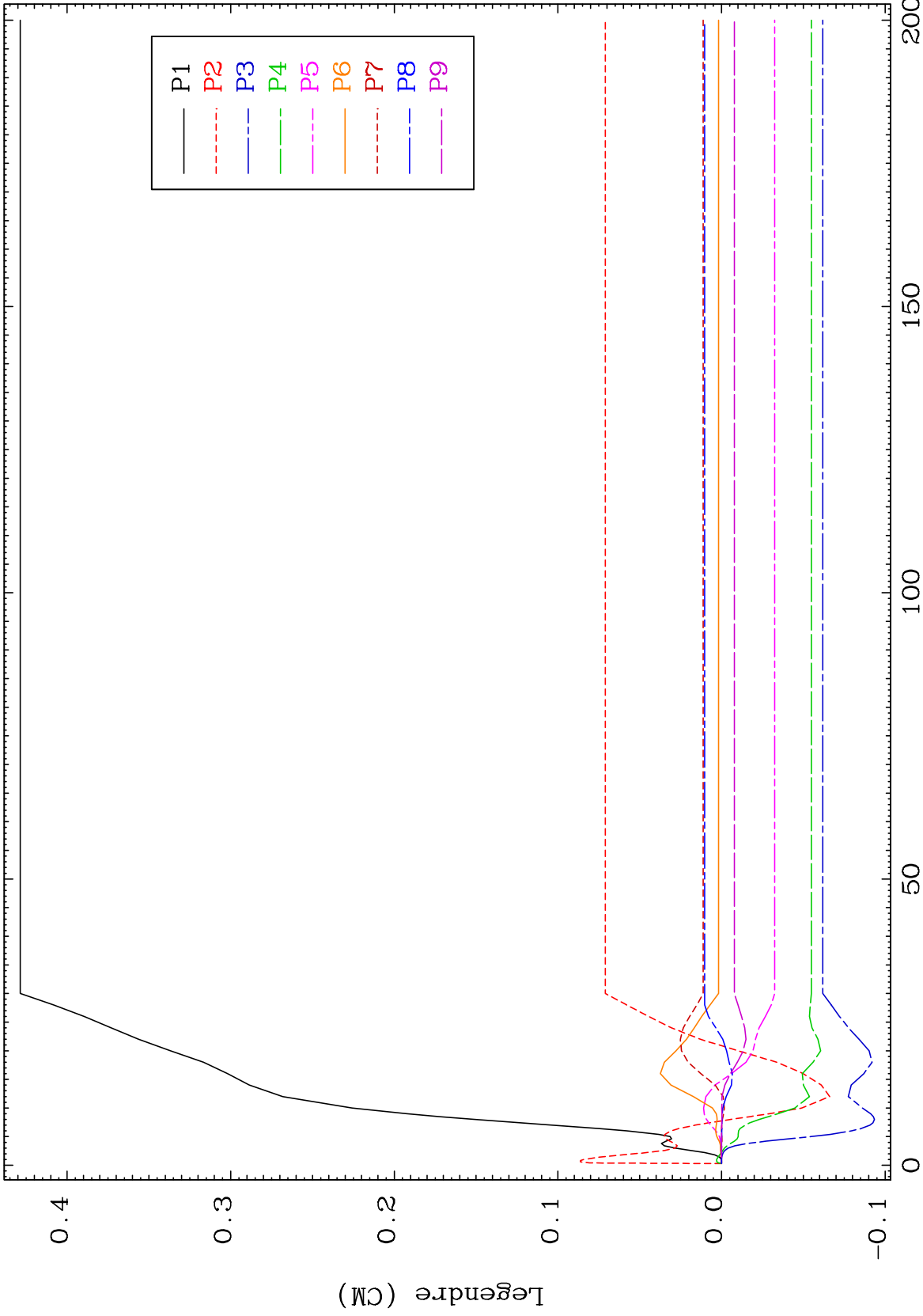
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61-Pm-138

MAT 6122

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

61-Pm-138



41

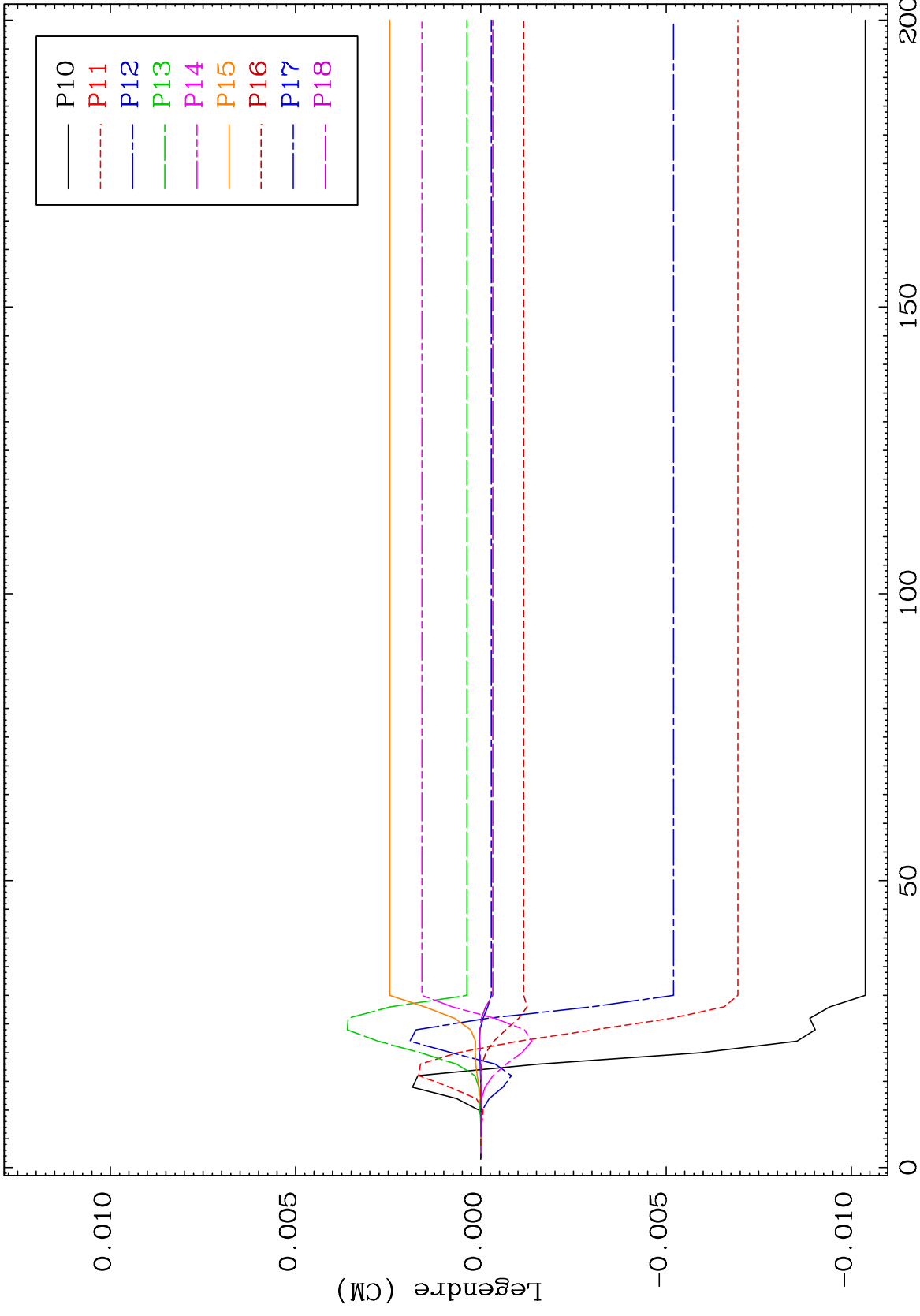
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



42

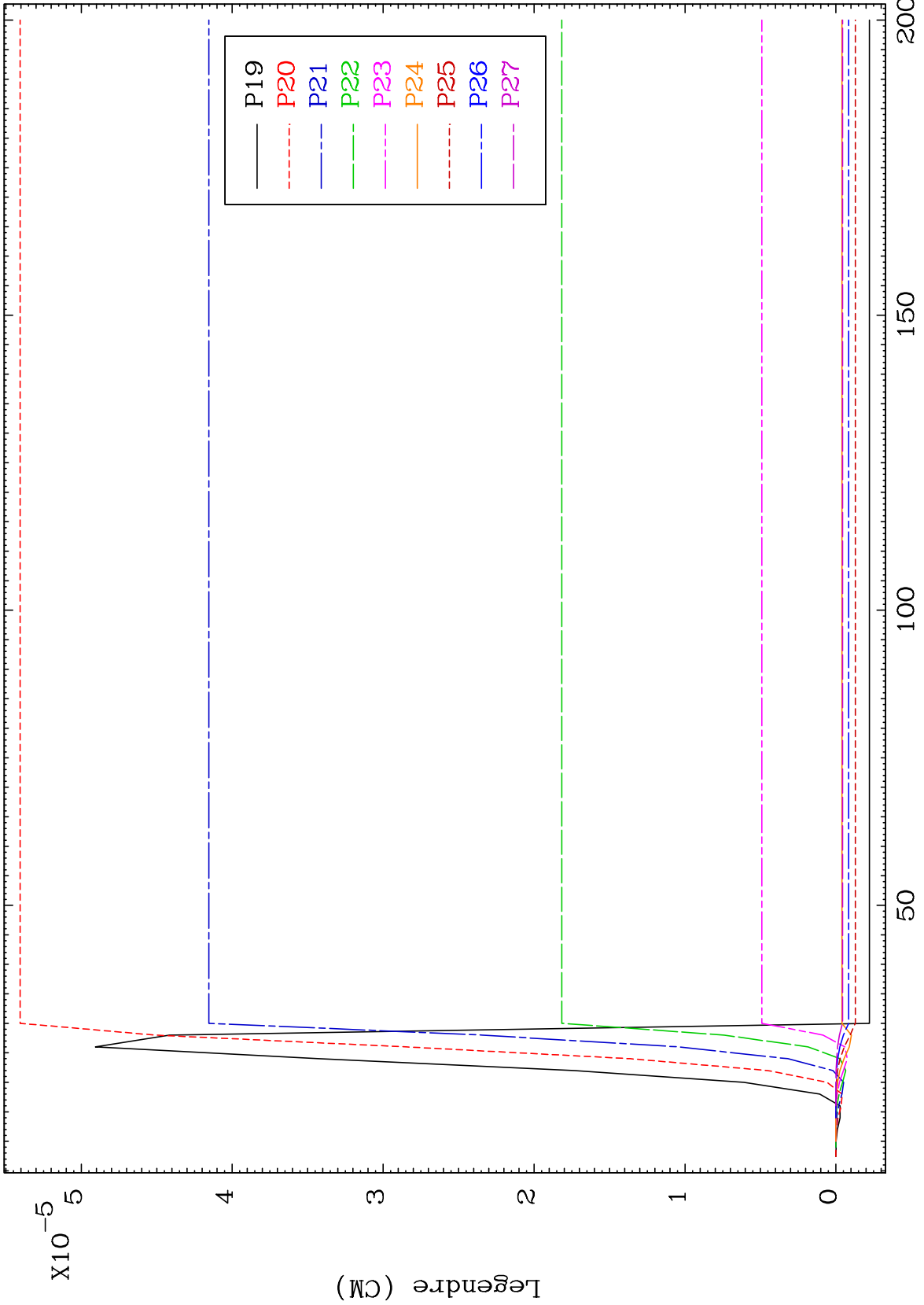
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



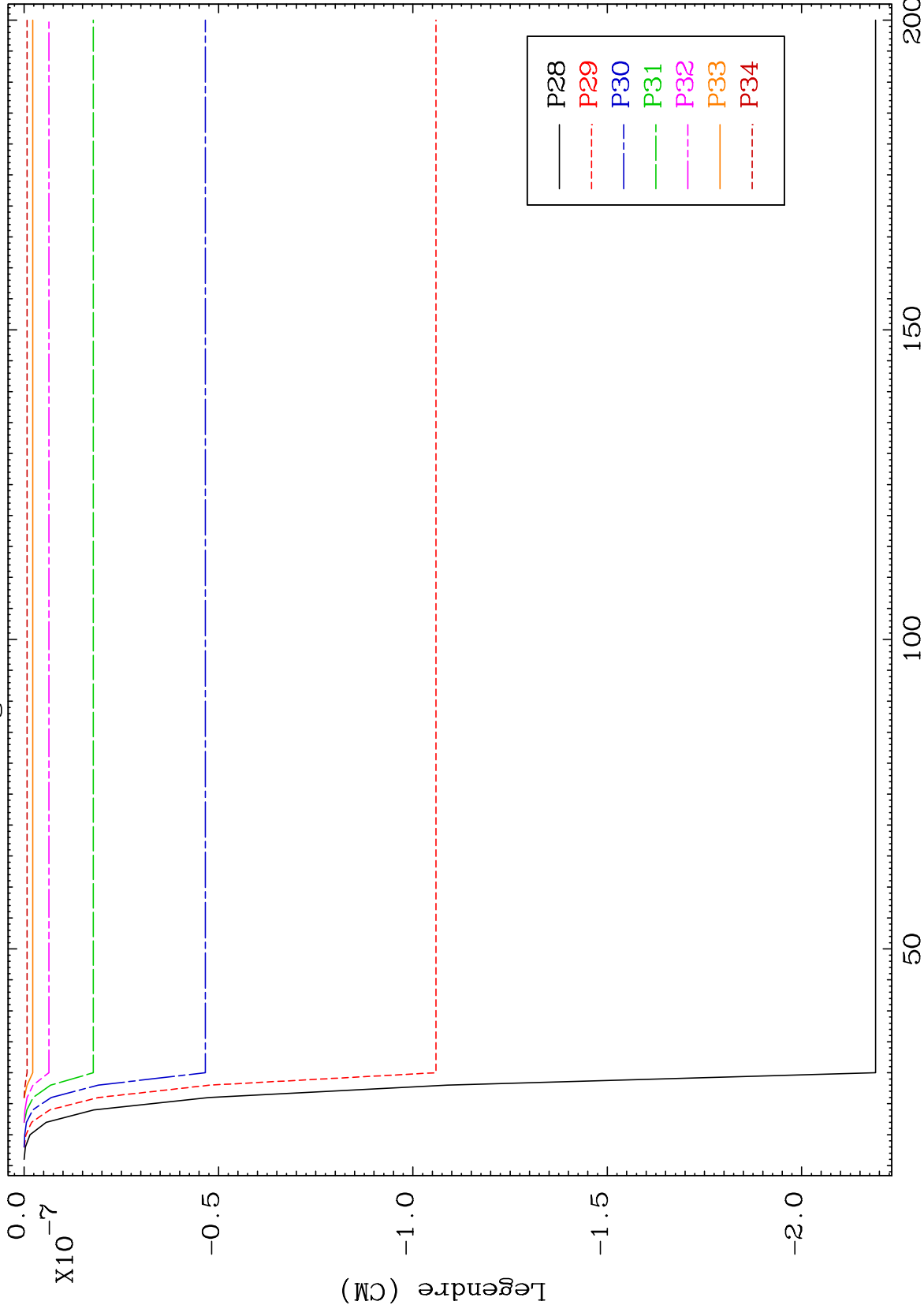
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MAT 6122

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

61-Pm-138



61-Pm-138

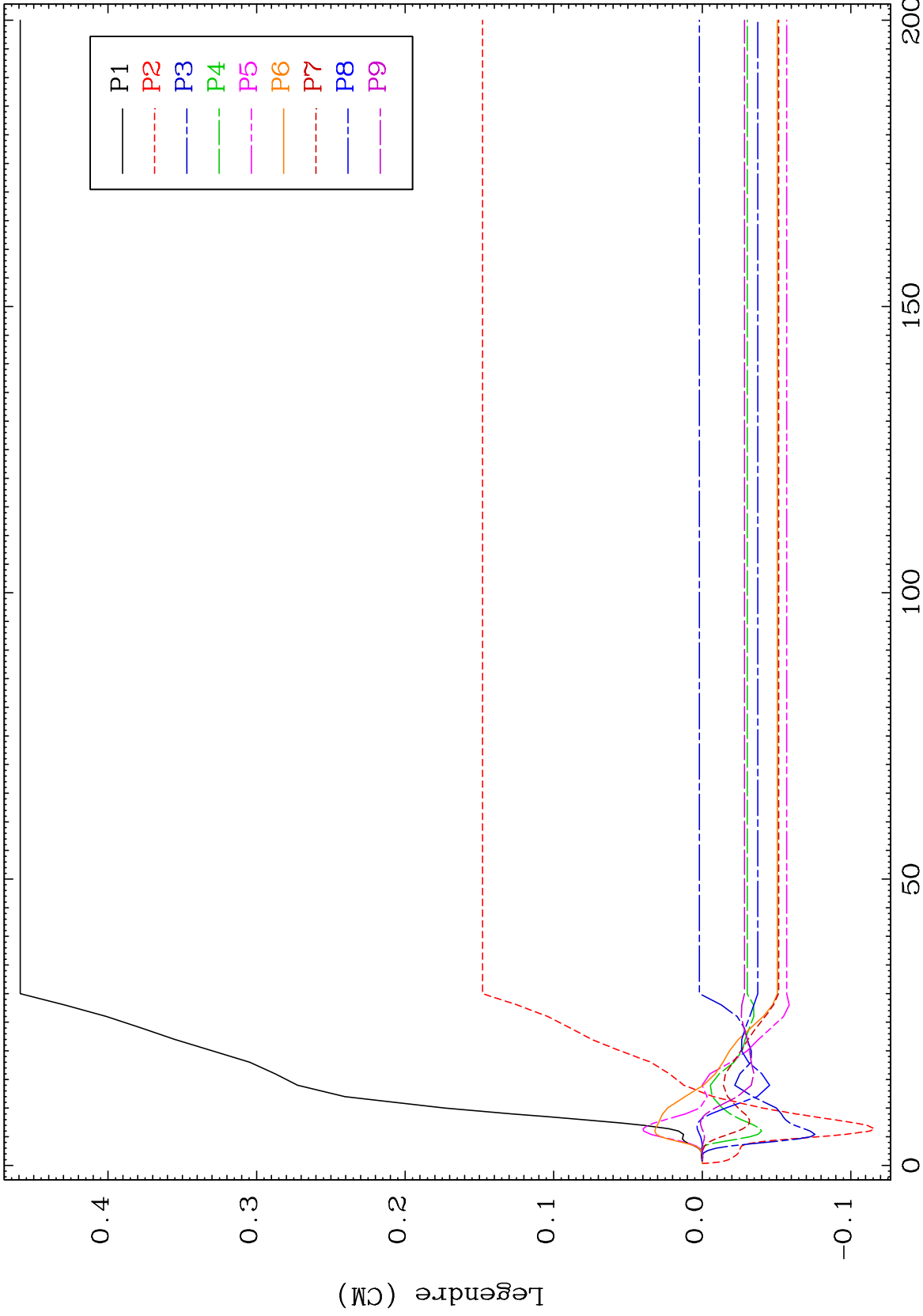
Incident Energy (MeV)

44

MAT 6122

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

61-Pm-138



45

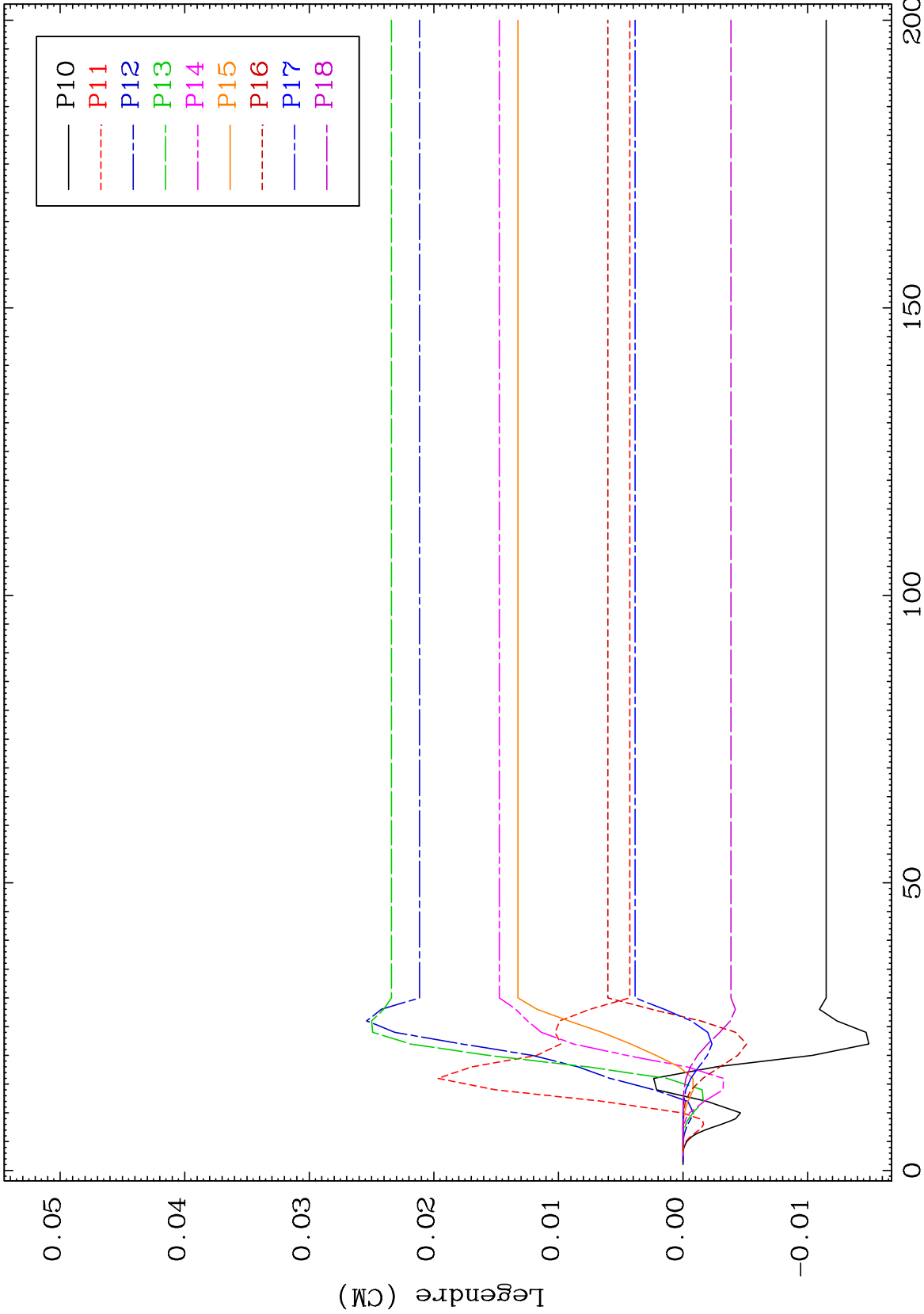
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



46

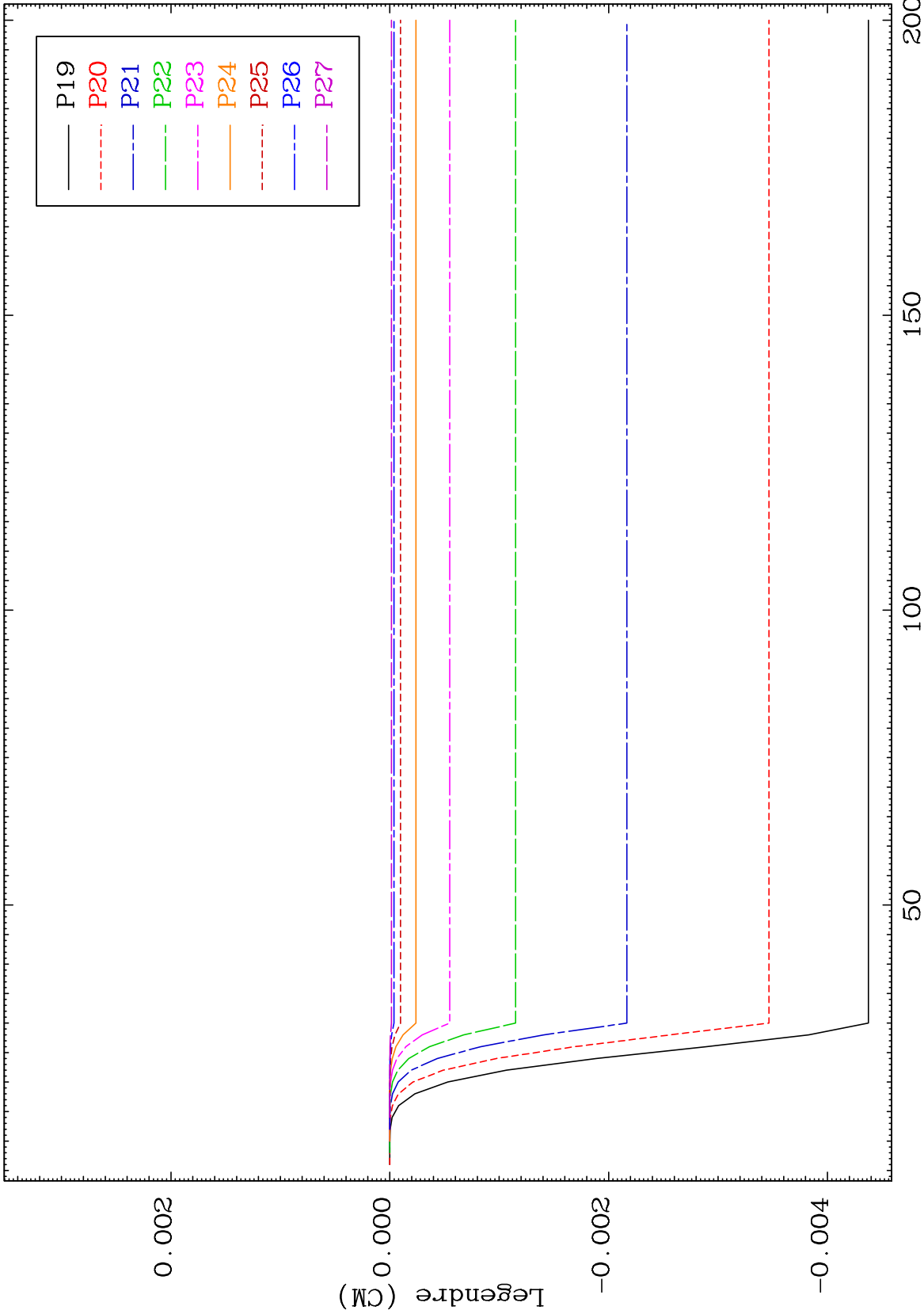
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



47

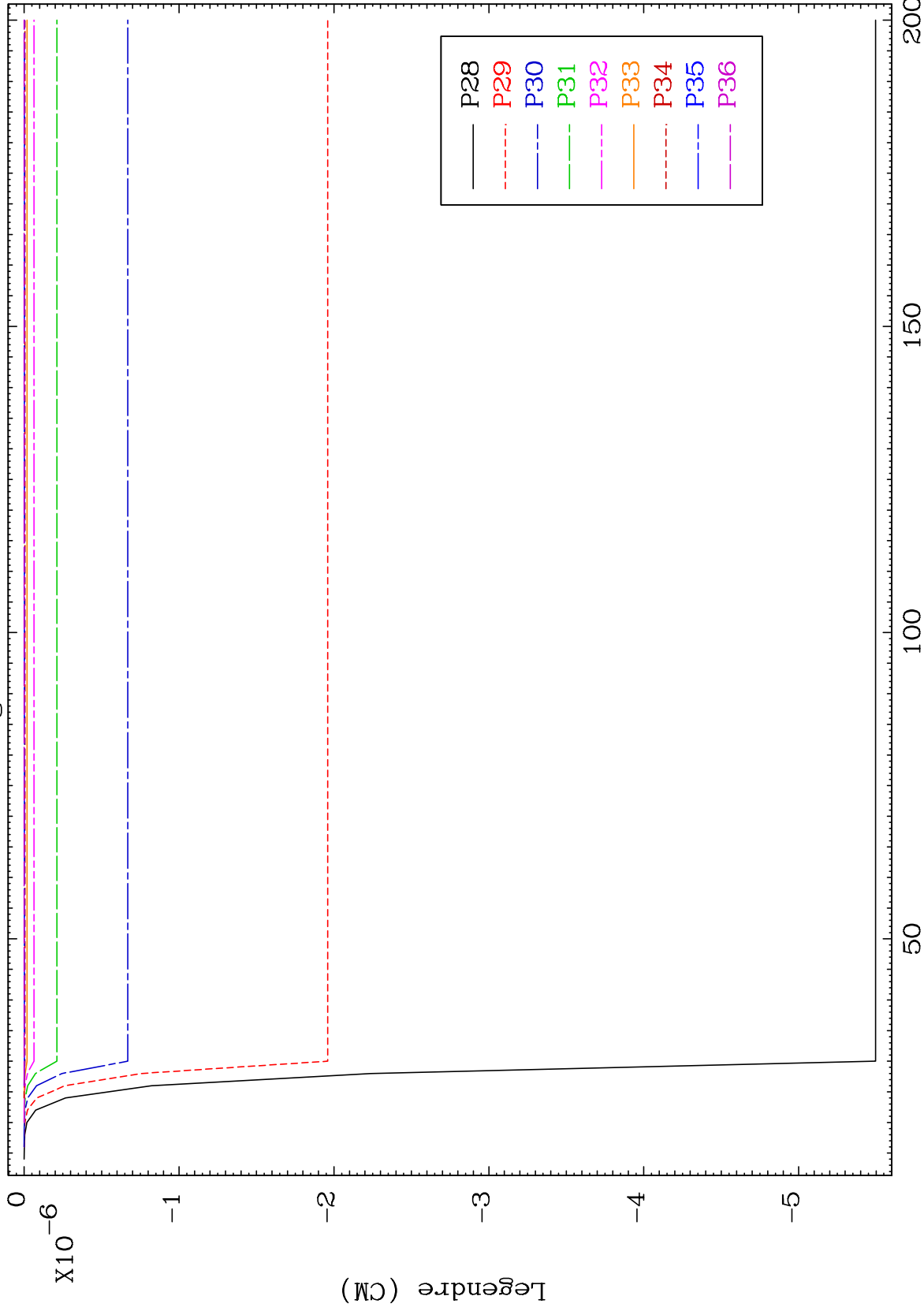
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



48

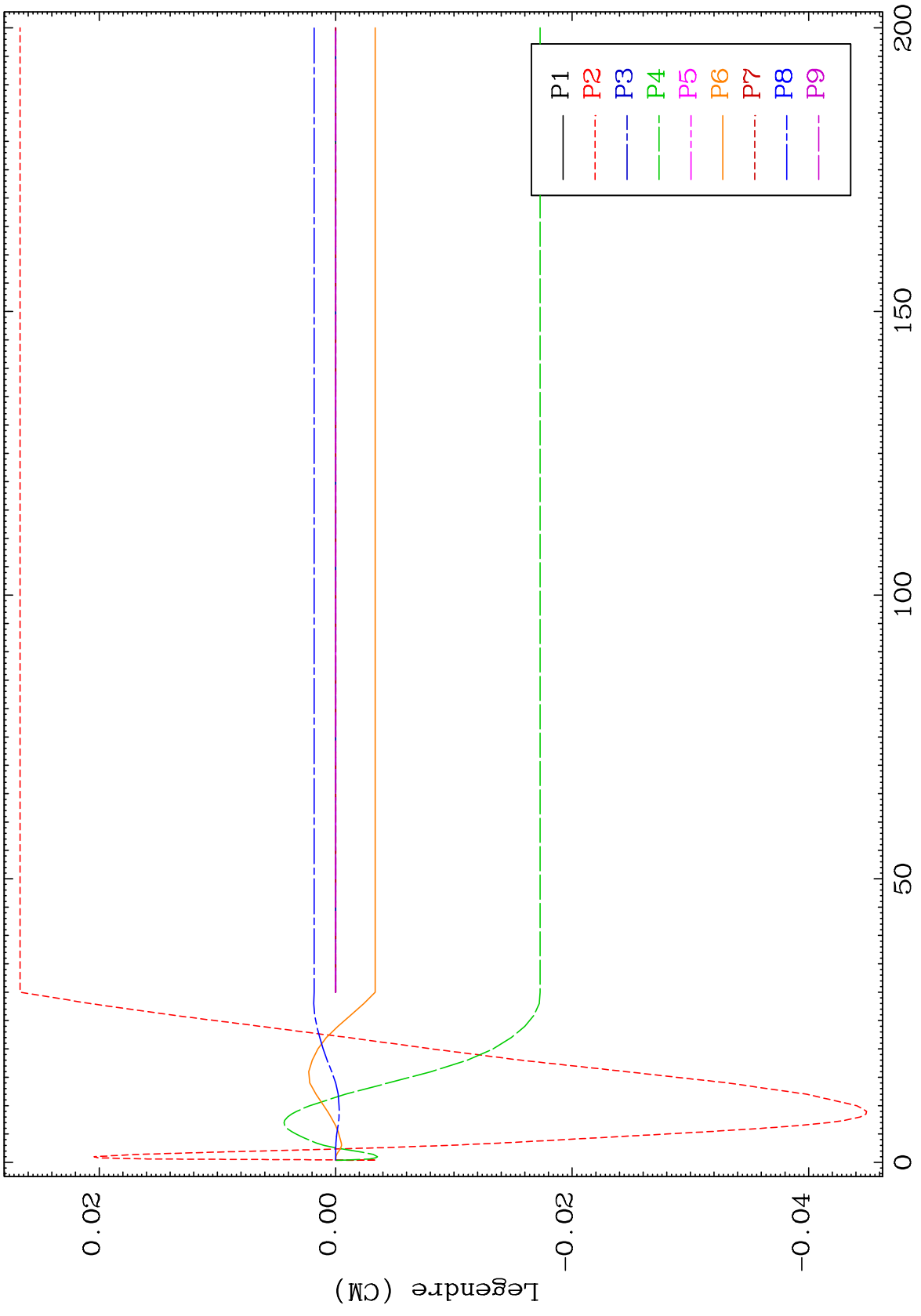
61-Pm-138

61-Pm-138

MAT 6122

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

61-Pm-138



49

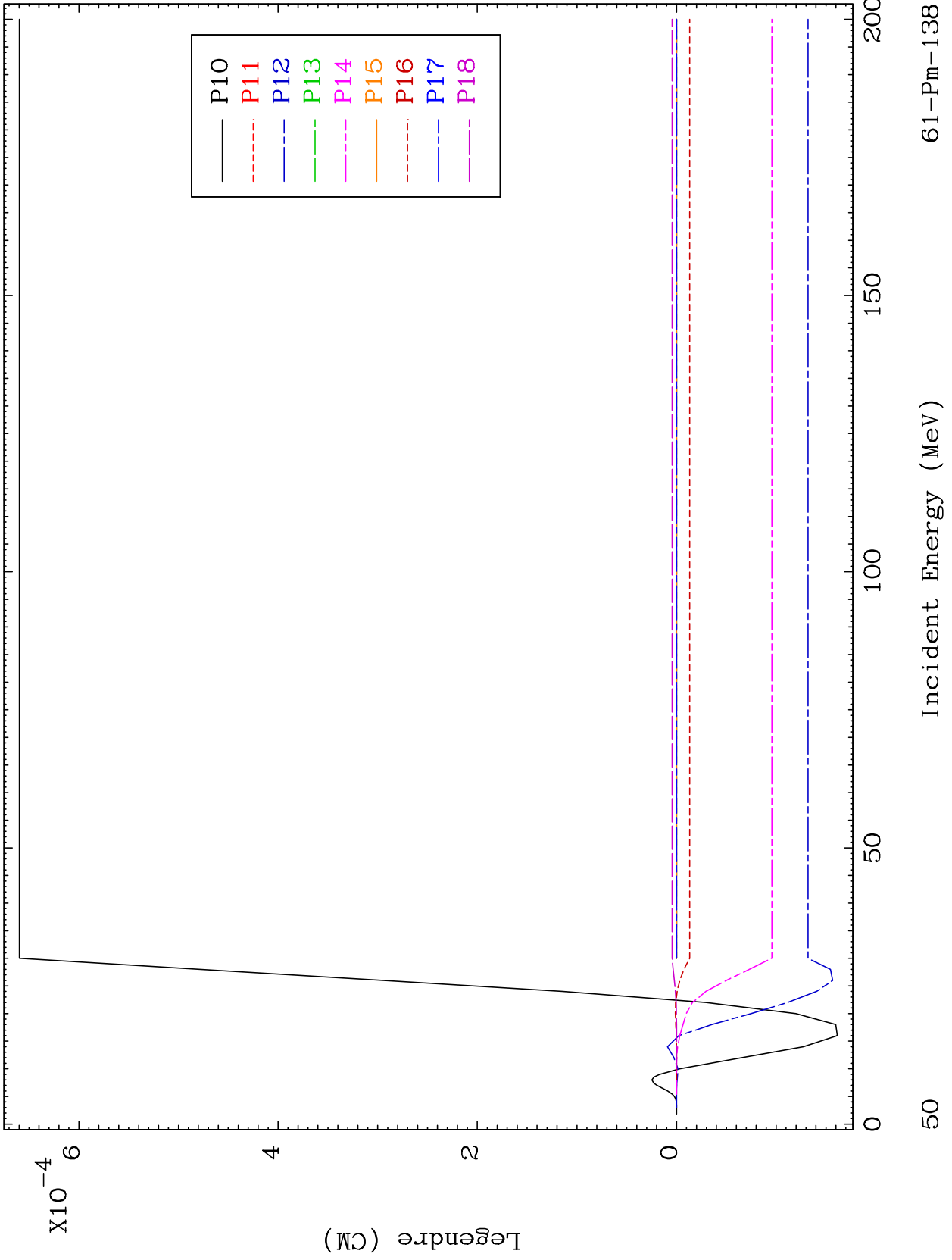
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

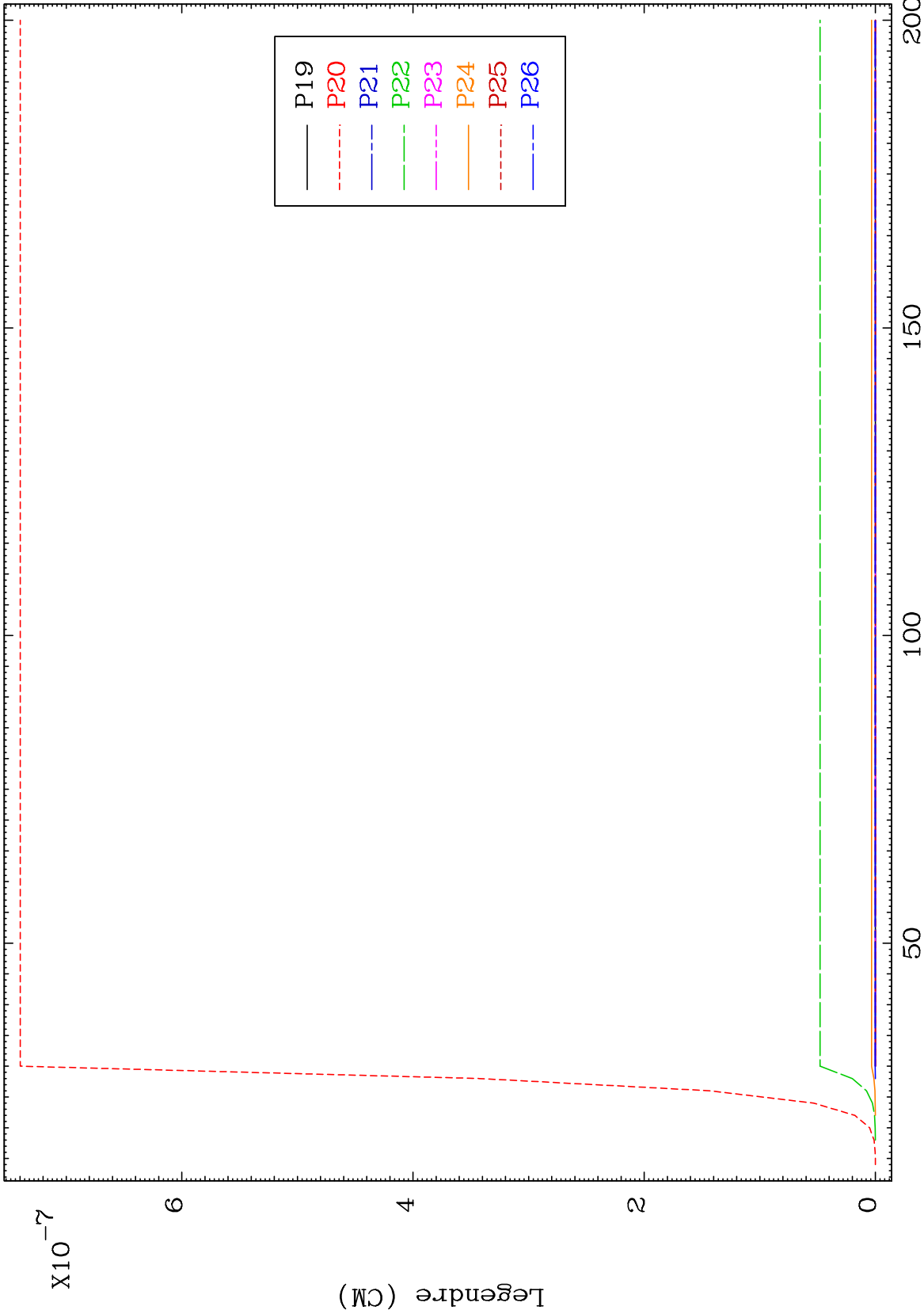
61-Pm-138



MAT 6122

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

61-Pm-138



51

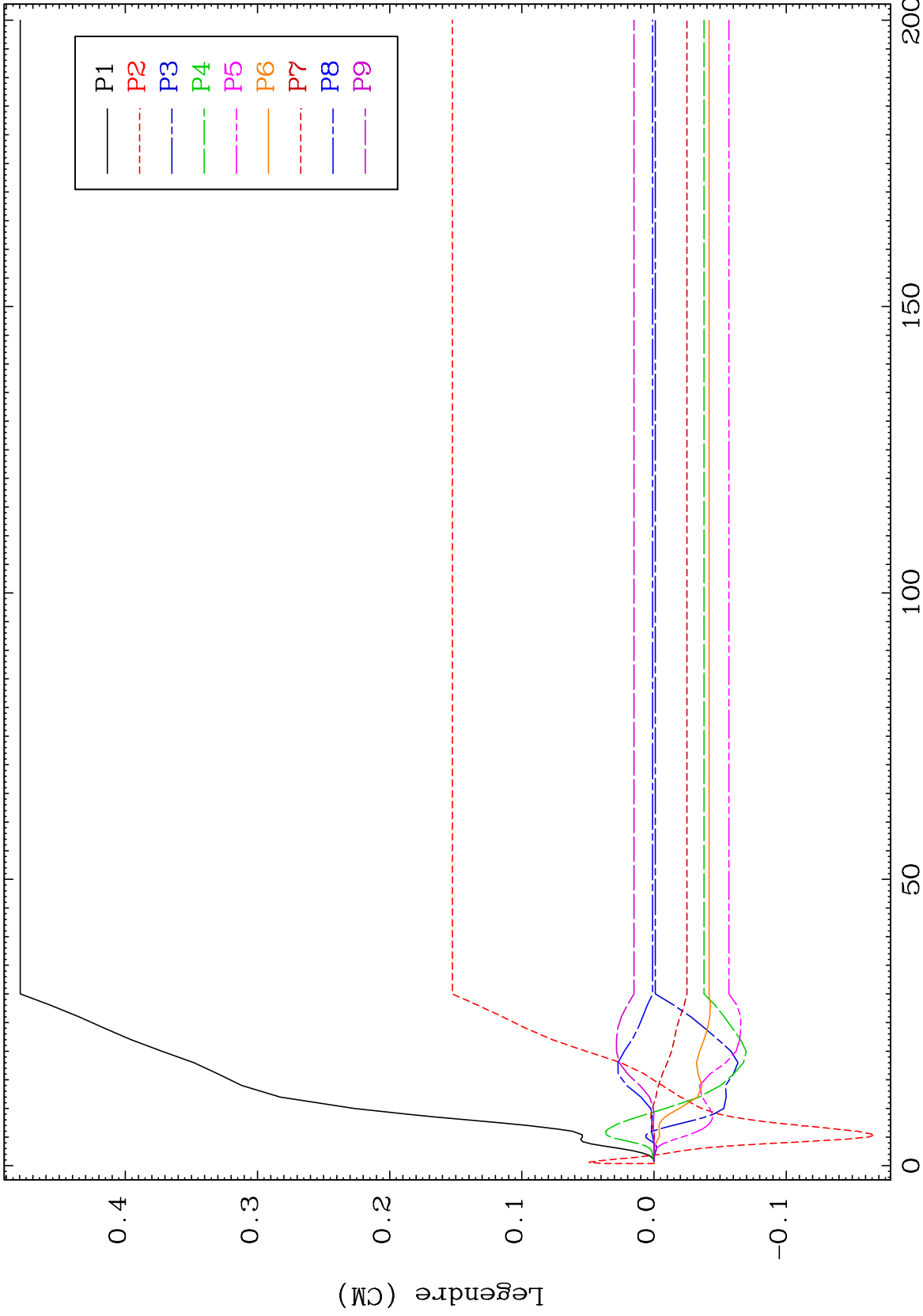
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



52

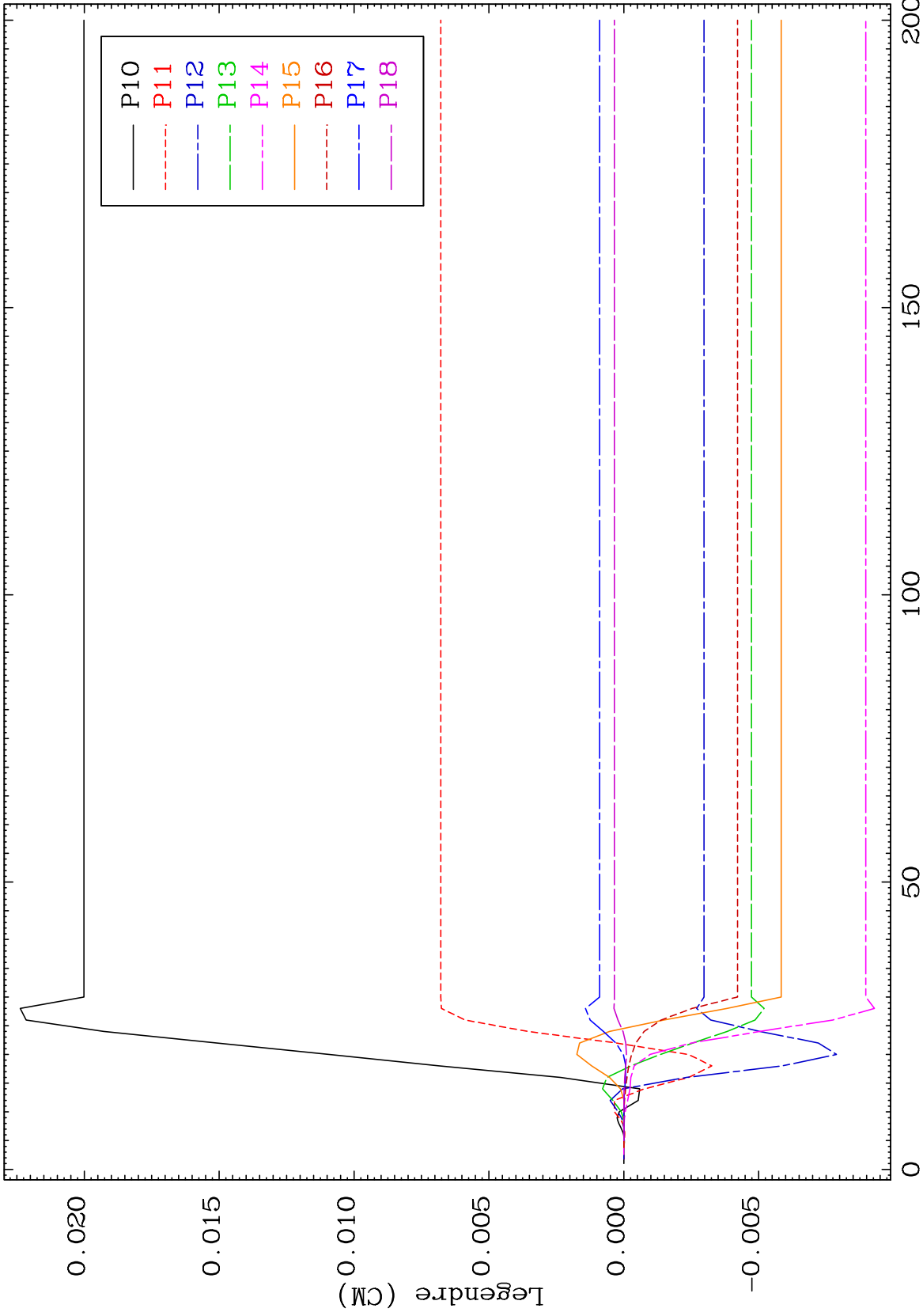
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



53

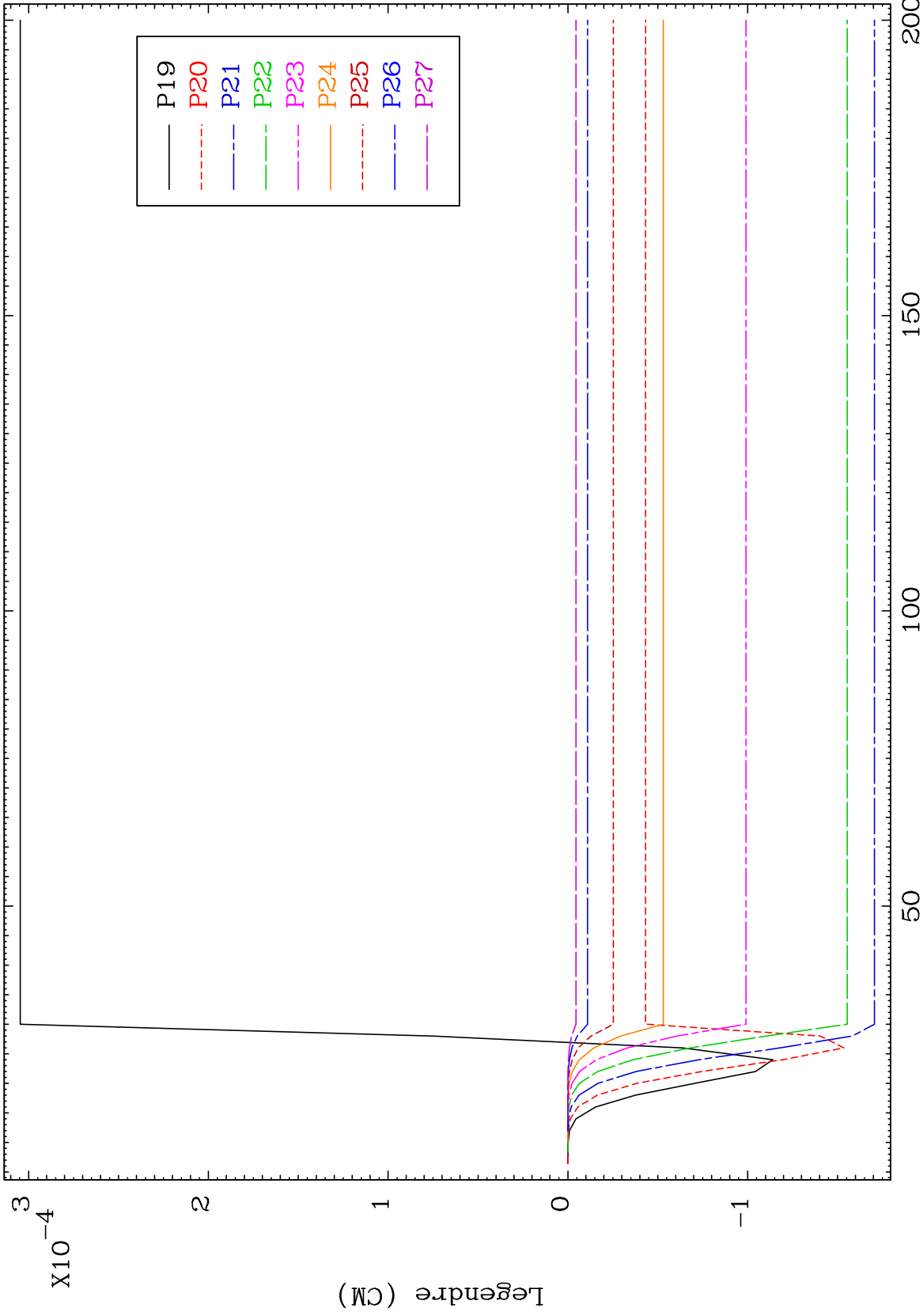
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



54

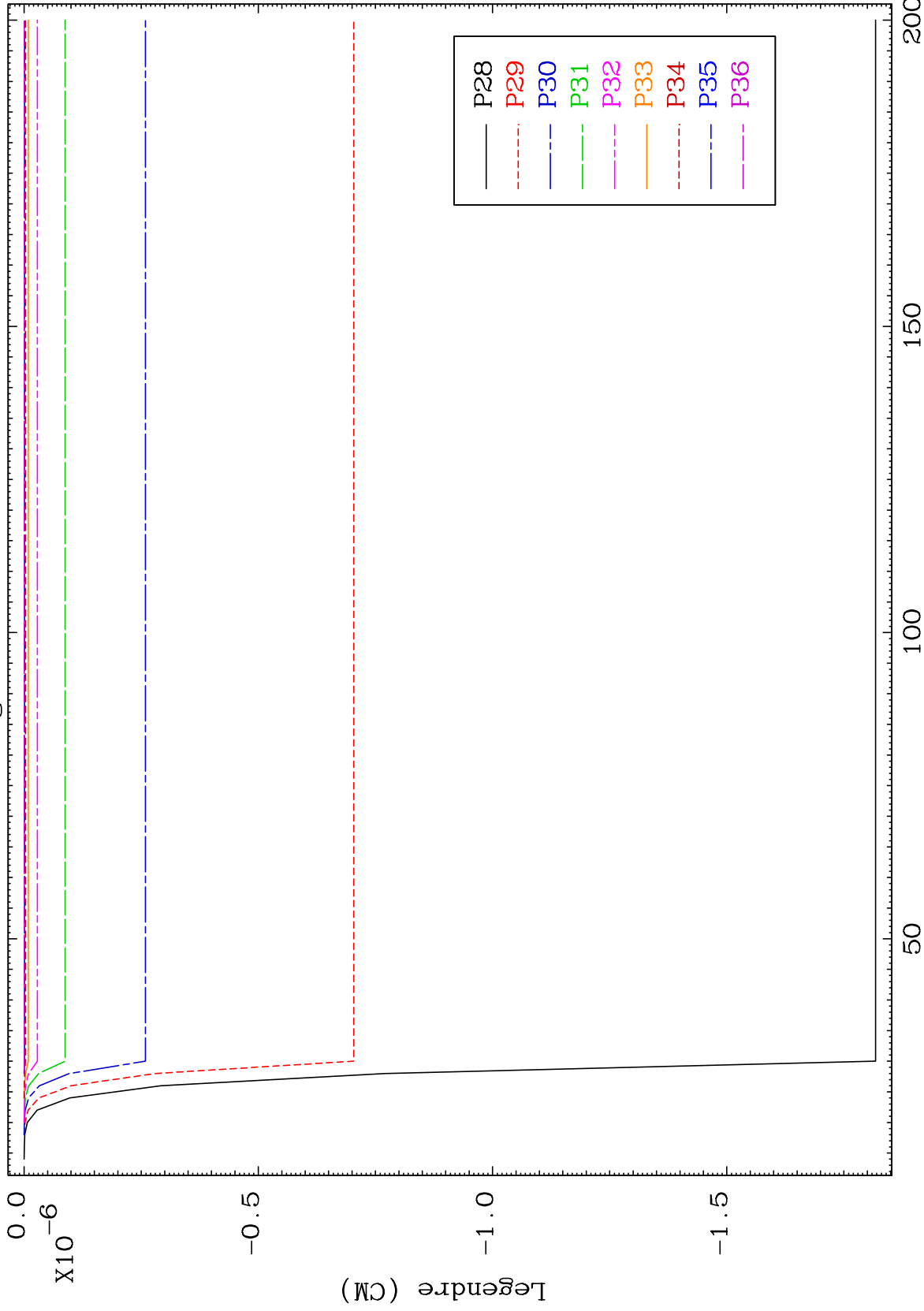
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

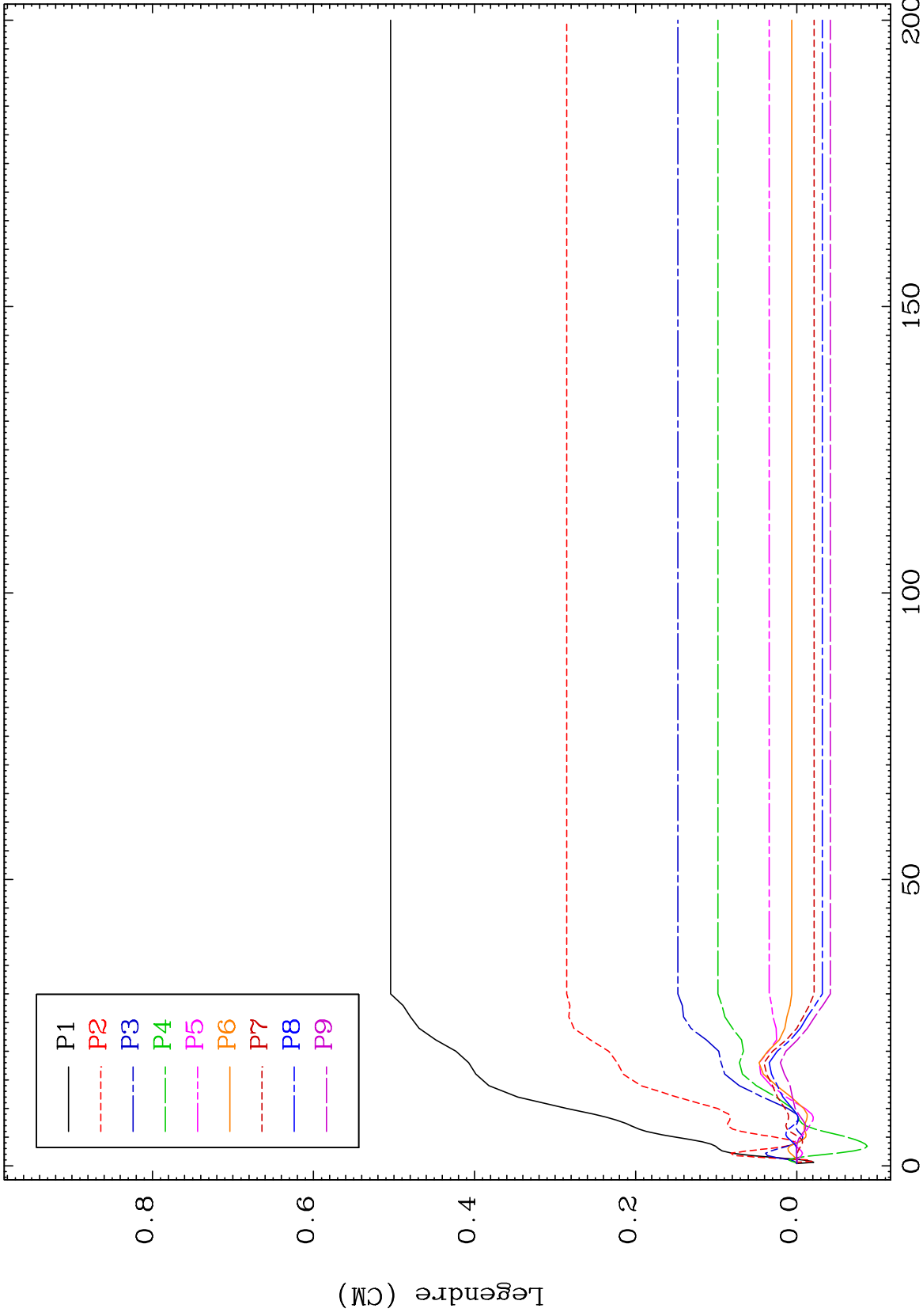
Incident Energy (MeV)

55

MAT 6122

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

61-Pm-138



56

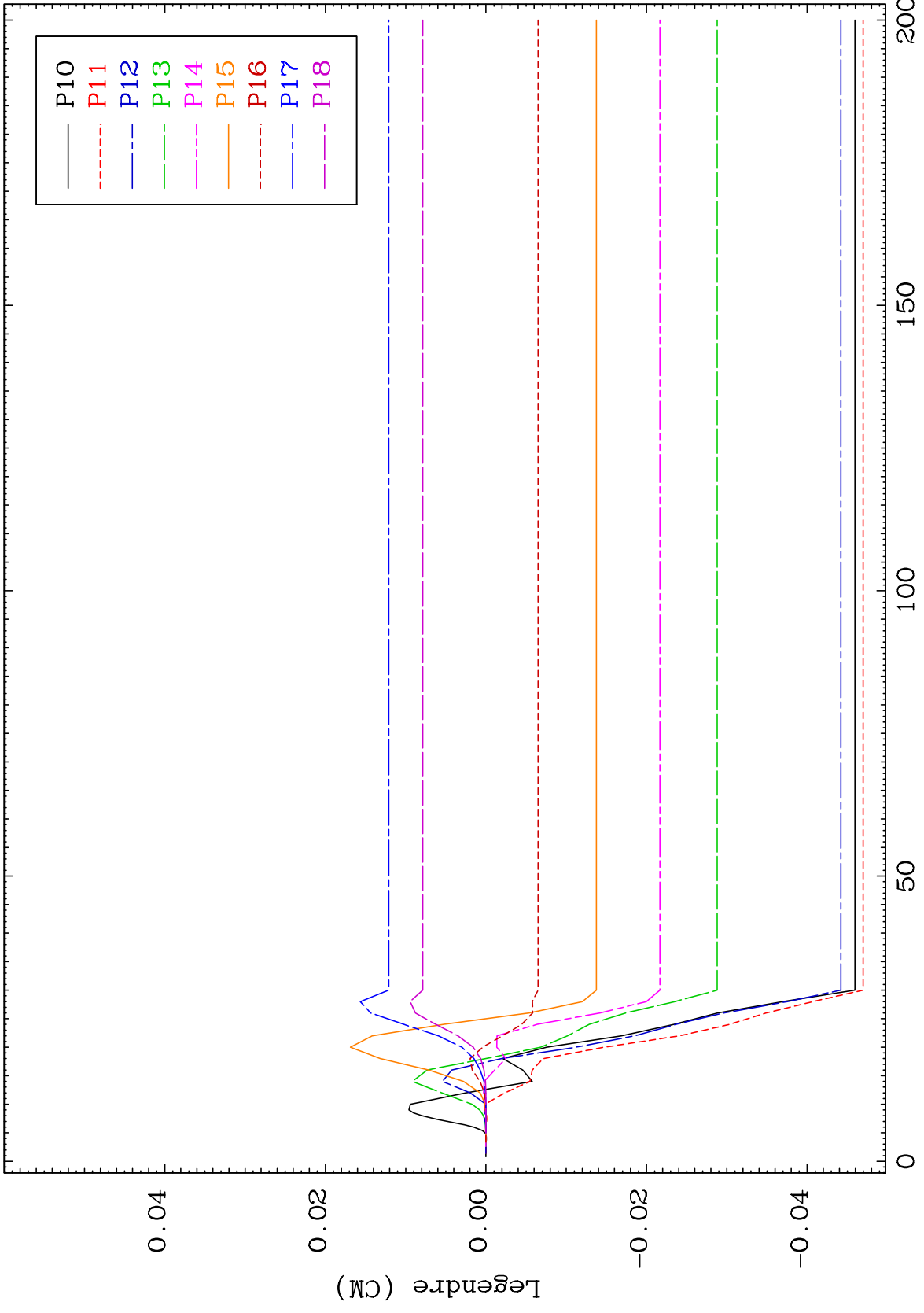
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



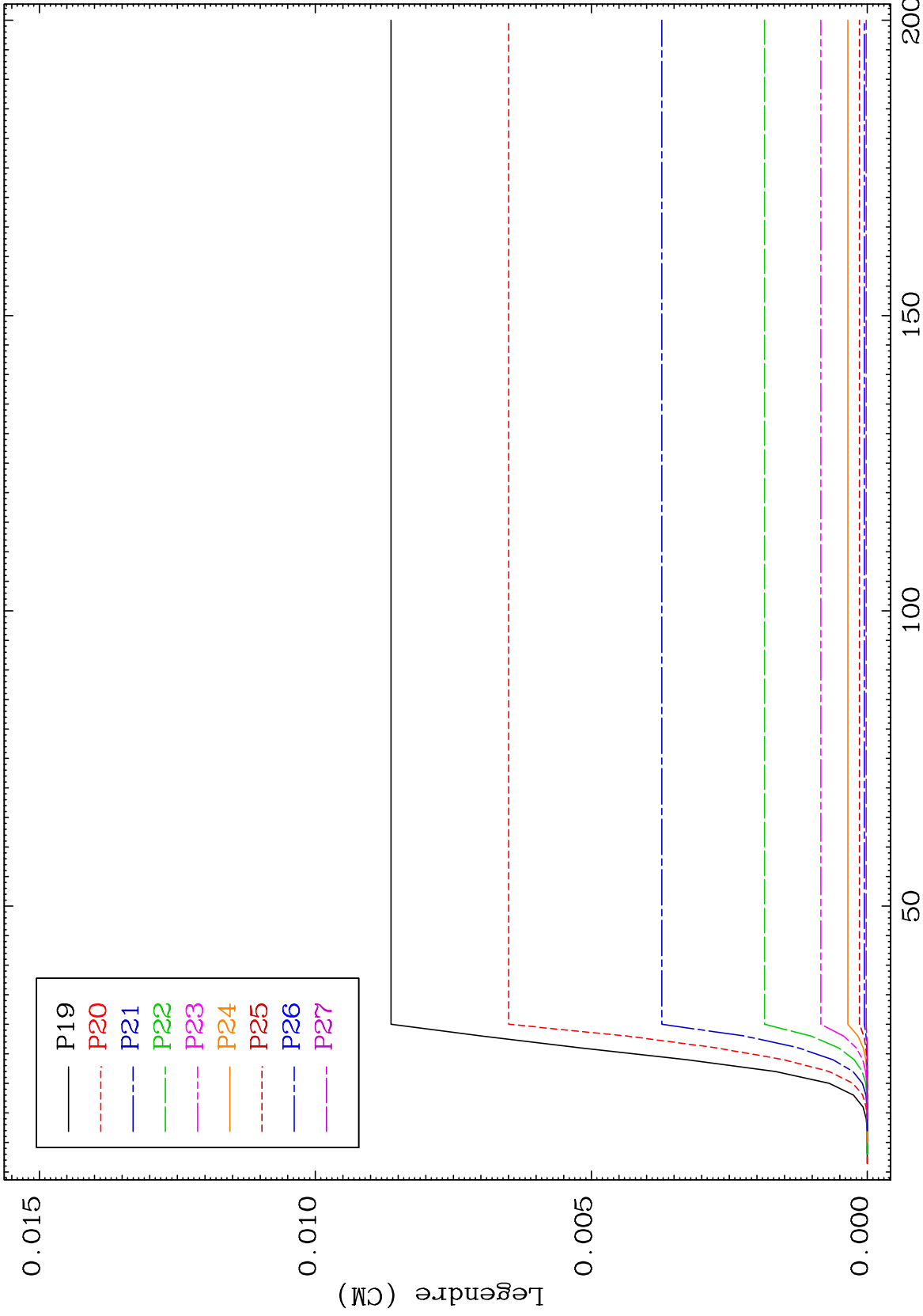
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61-Pm-138

MAT 6122

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

61-Pm-138



58

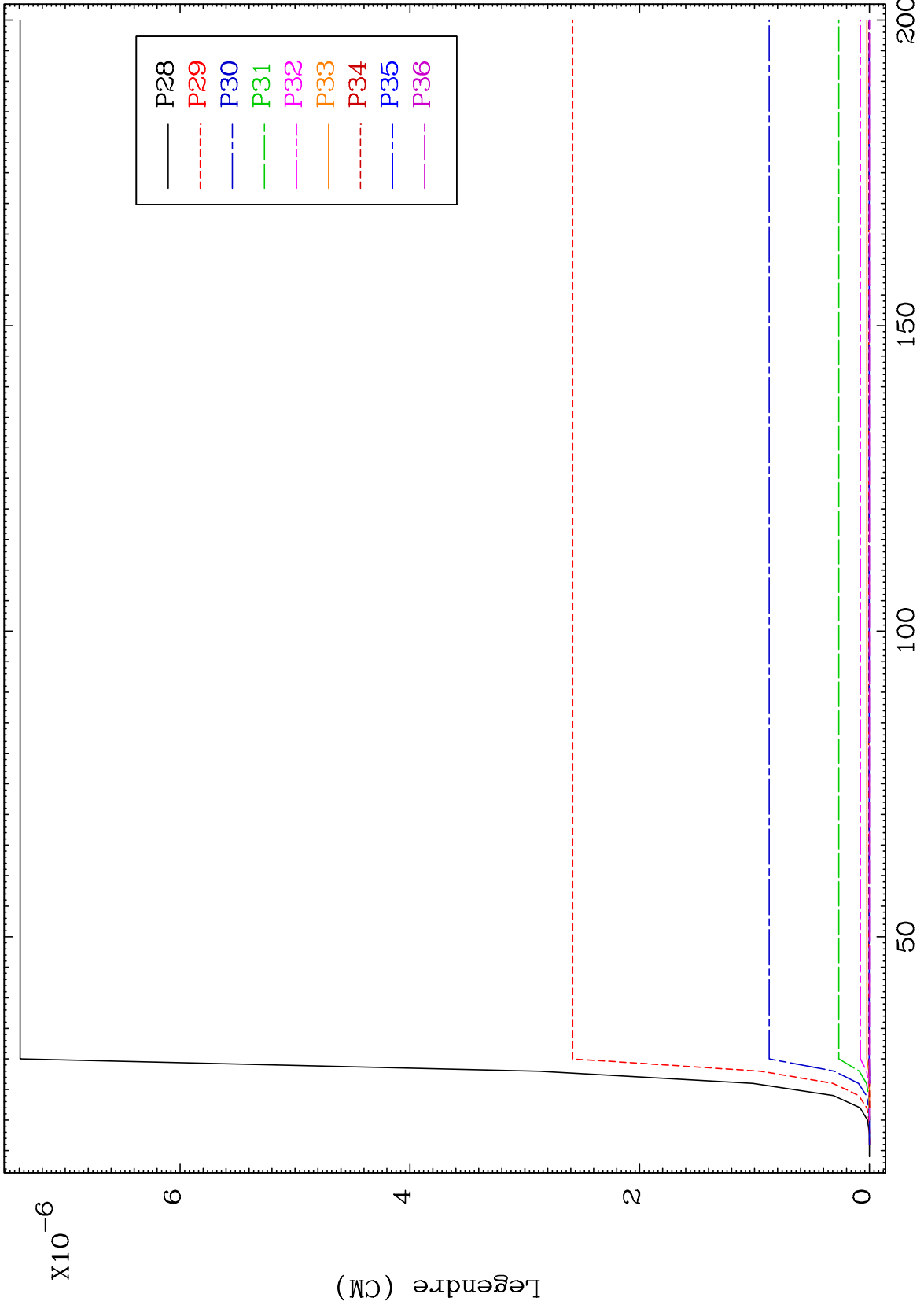
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138

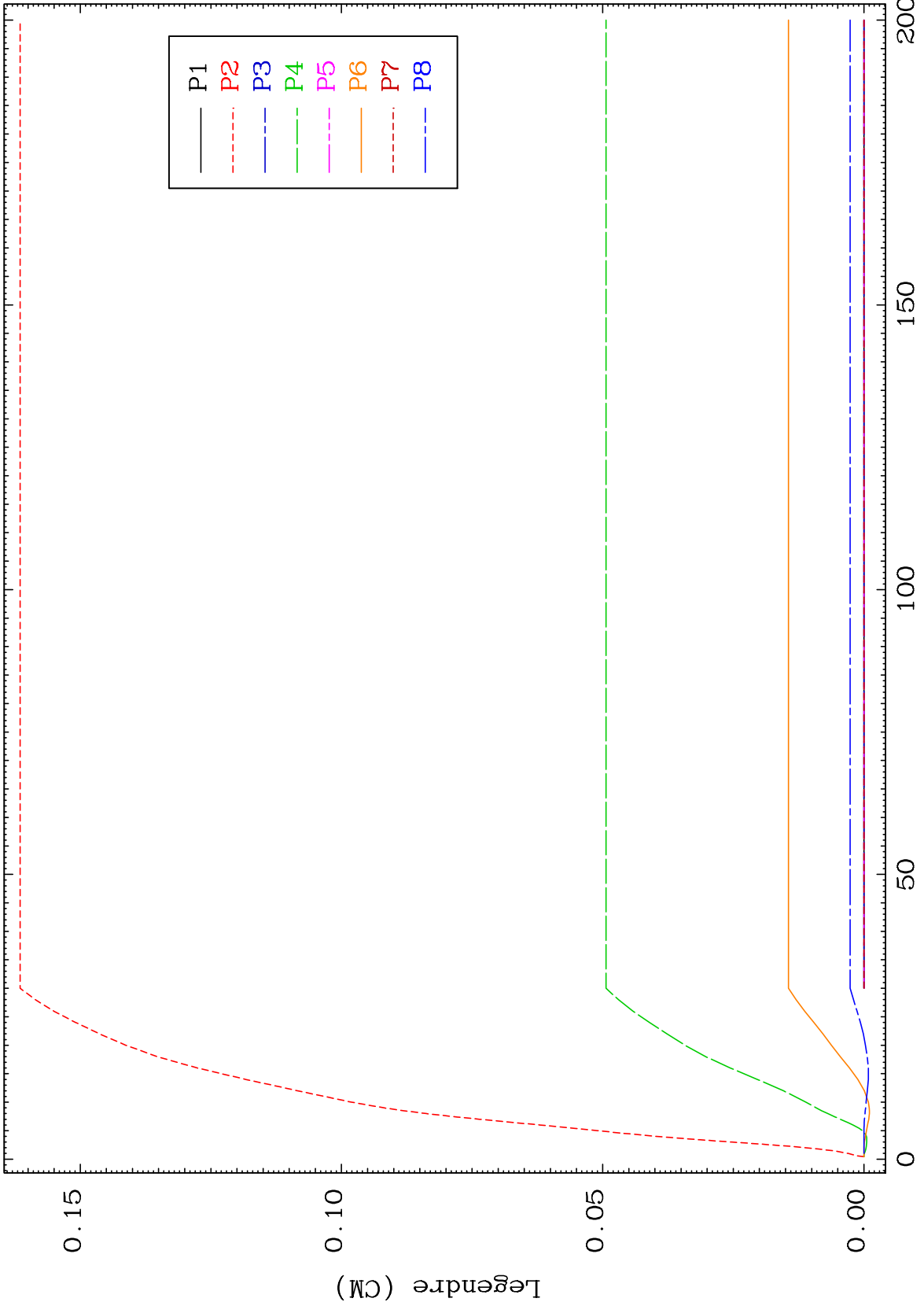


59

61-Pm-138

61-Pm-138

MAT 6122 MT= 62 (n,n') Level Legendre Coefficients 61-Pm-138

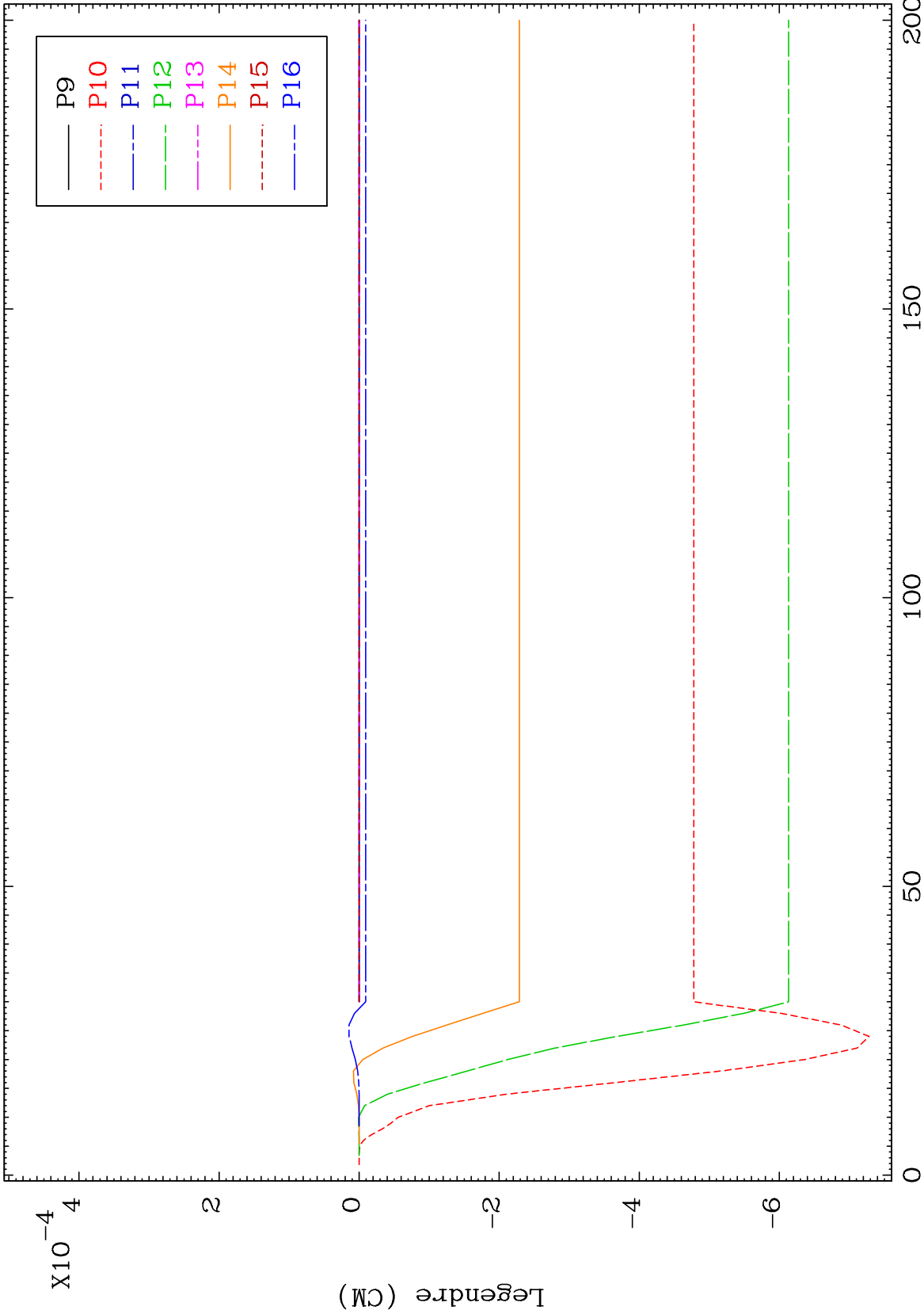


61-Pm-138

MAT 6122

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

61-Pm-138

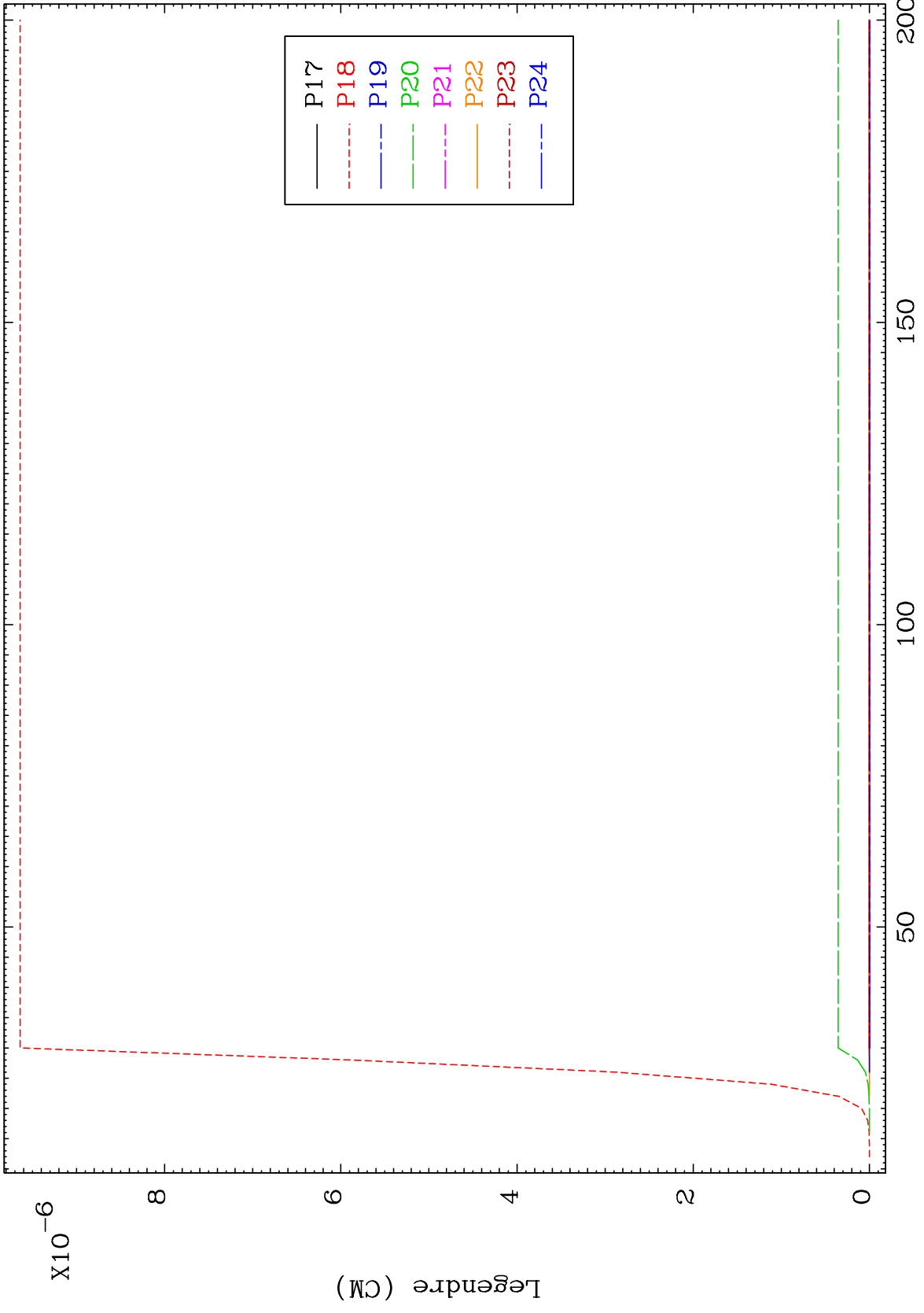


61

Incident Energy (MeV)

61-Pm-138

MAT 6122 MT= 62 (n,n') Level Legendre Coefficients 61-Pm-138

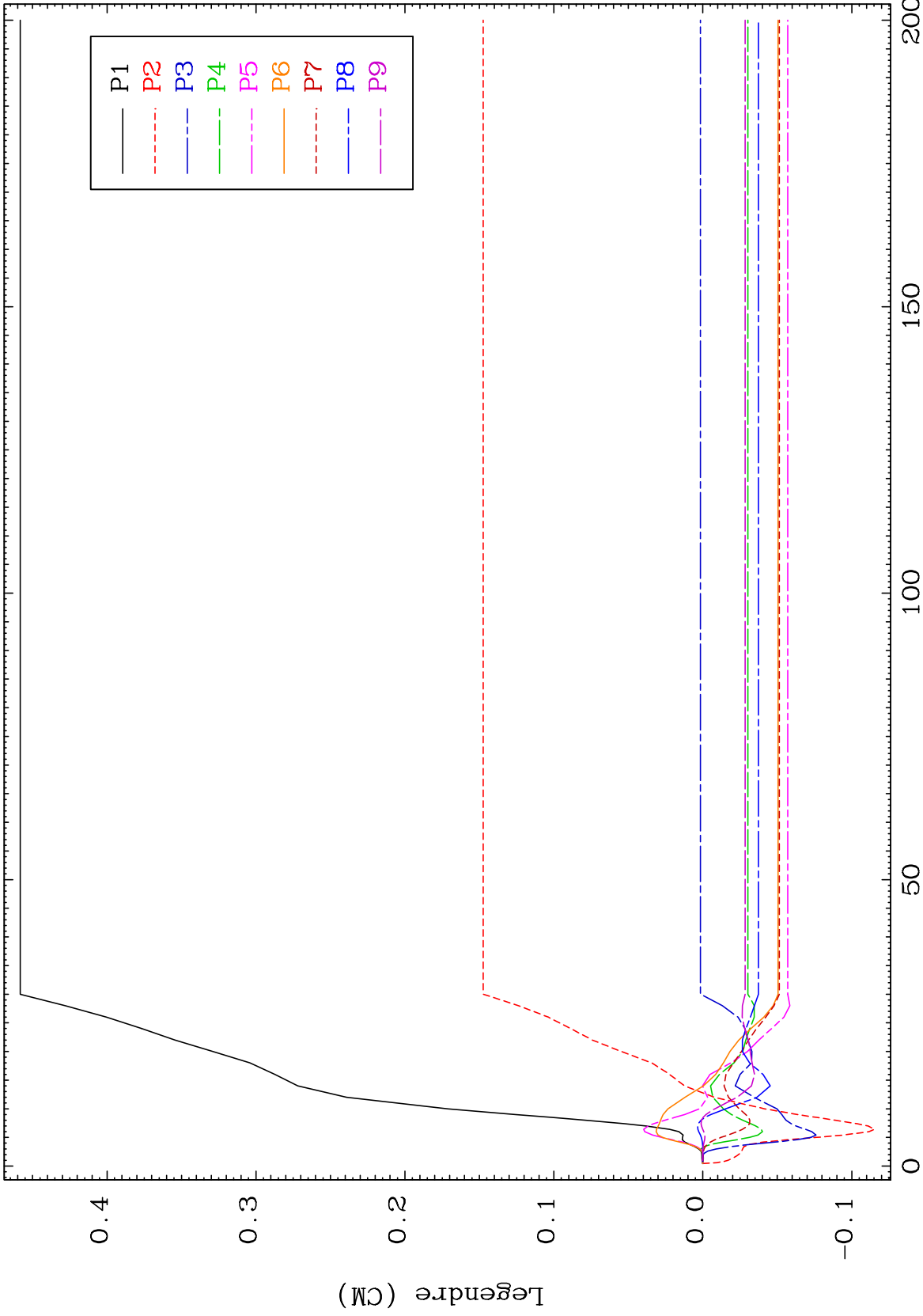


62 61-Pm-138

MAT 6122

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

61-Pm-138



63

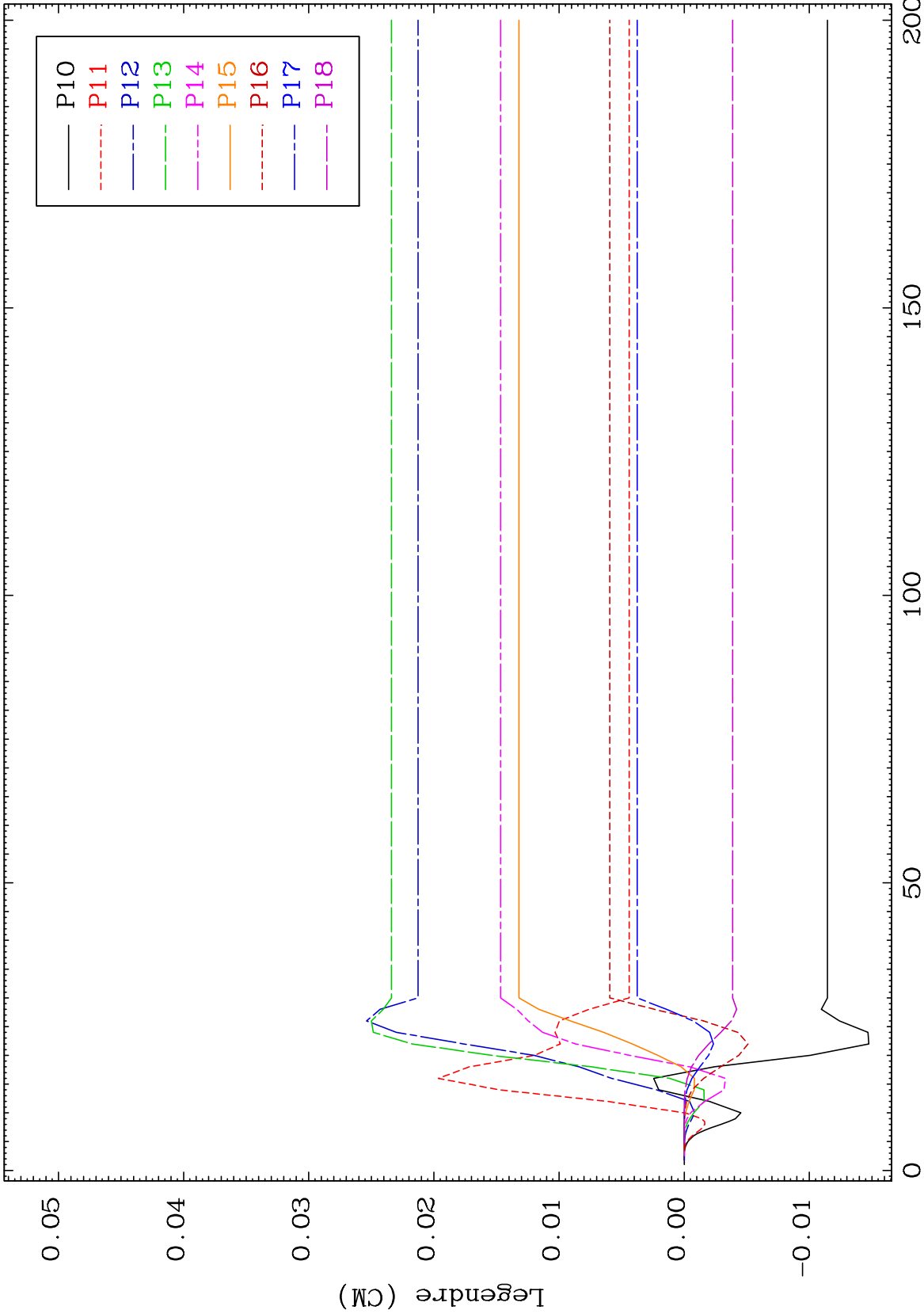
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



64

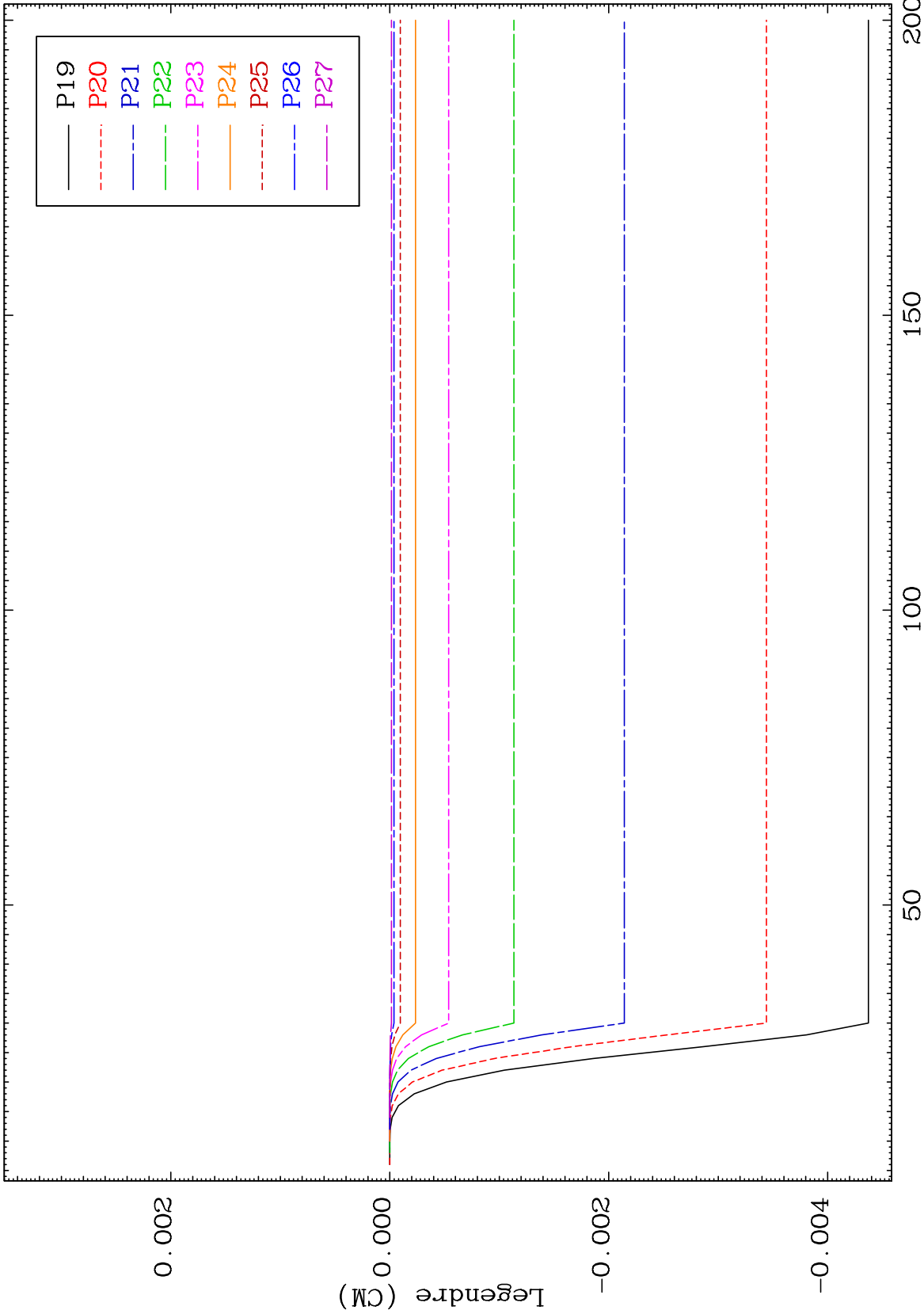
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138

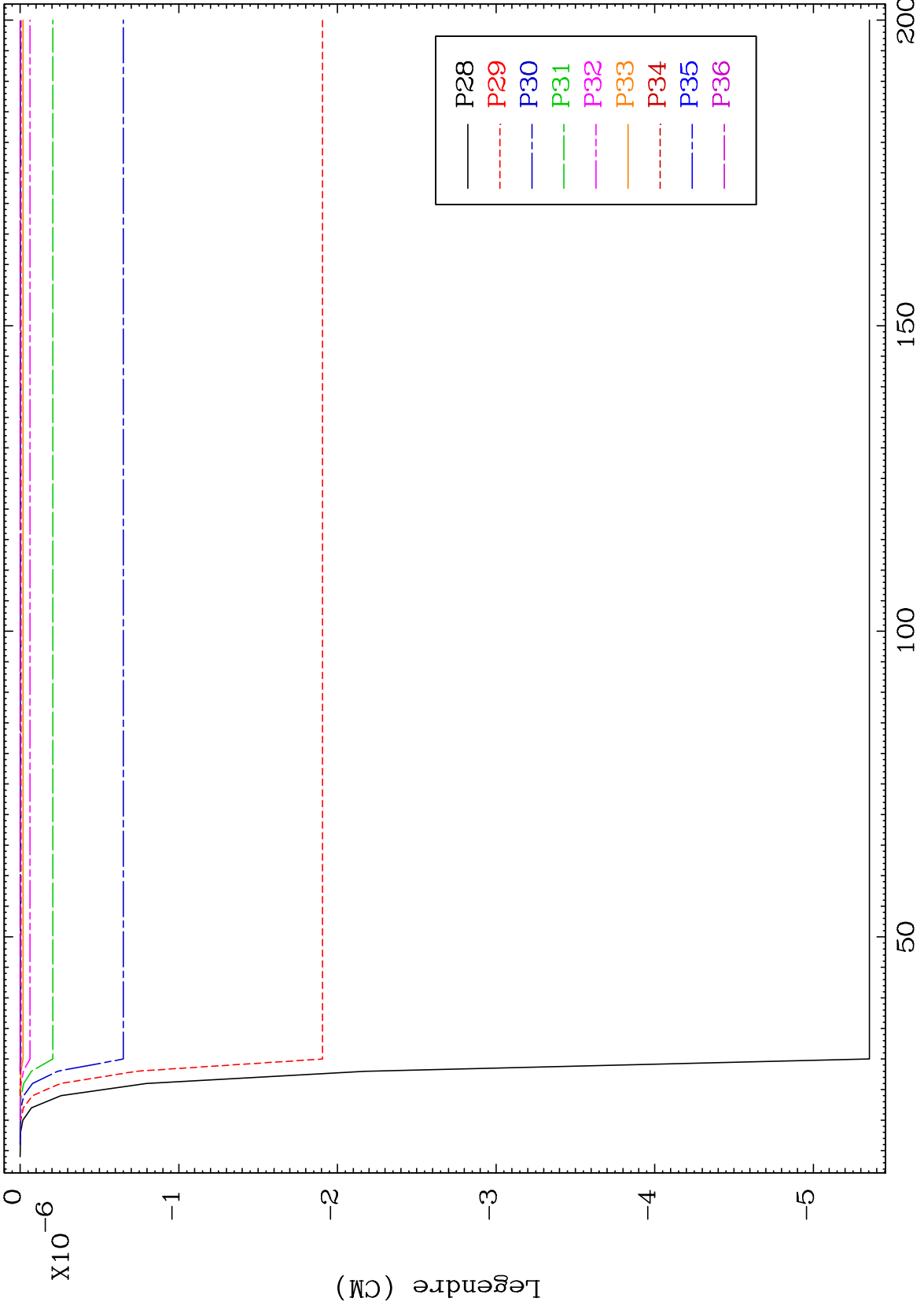


65

Incident Energy (MeV)

61-Pm-138

MAT 6122 MT= 63 (n,n') Level Legendre Coefficients 61-Pm-138

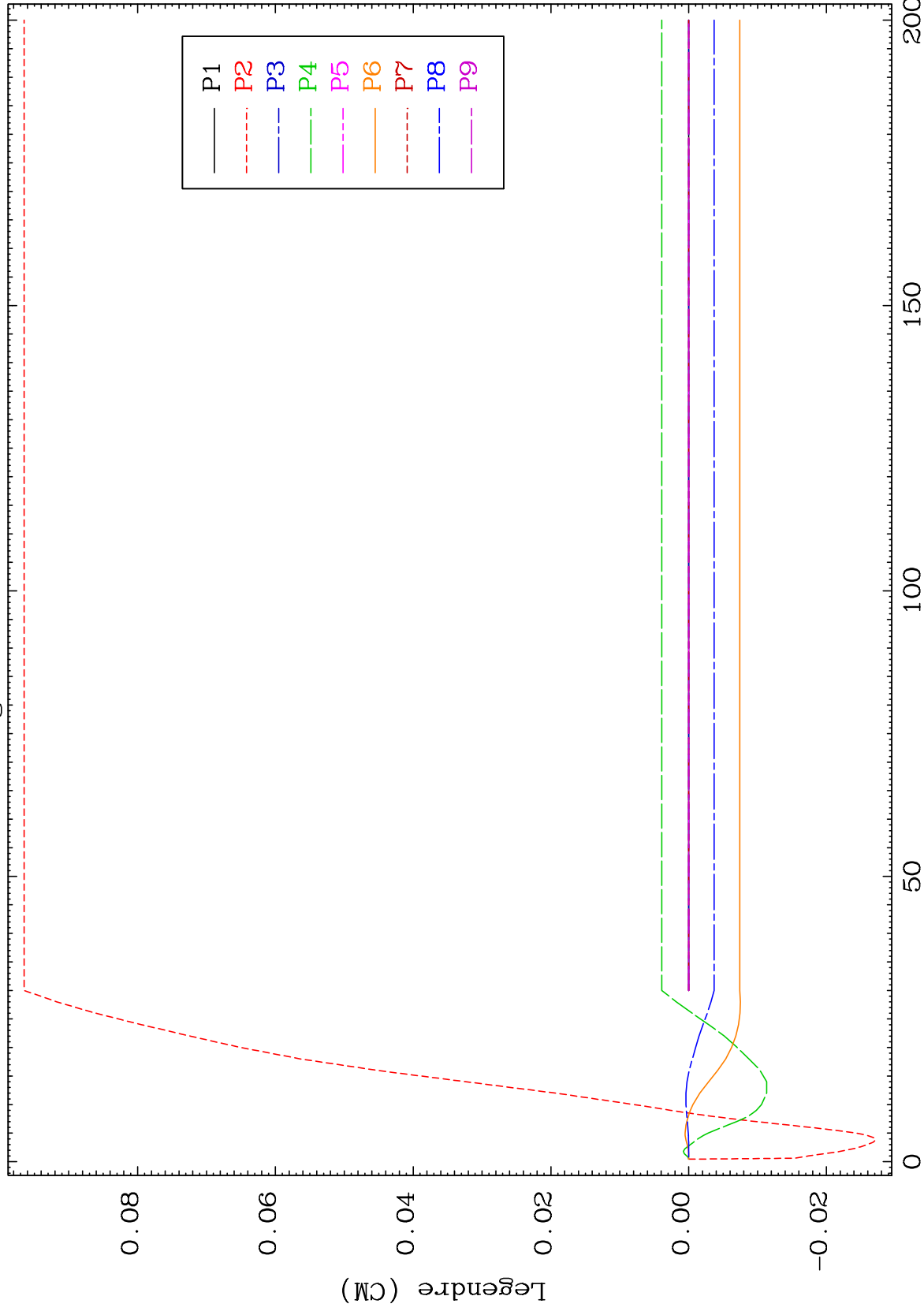


66 61-Pm-138

MAT 6122

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

61-Pm-138



67

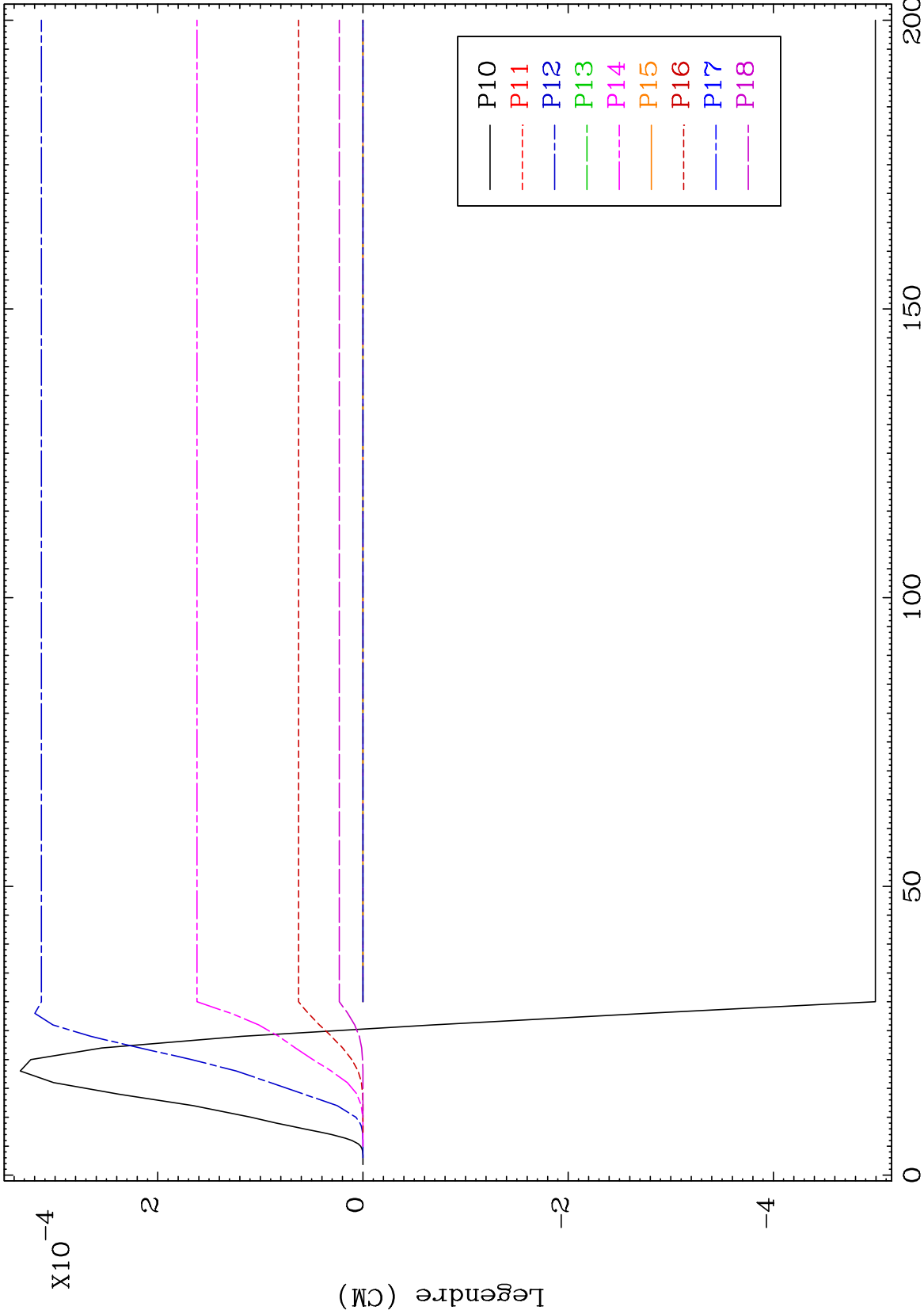
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



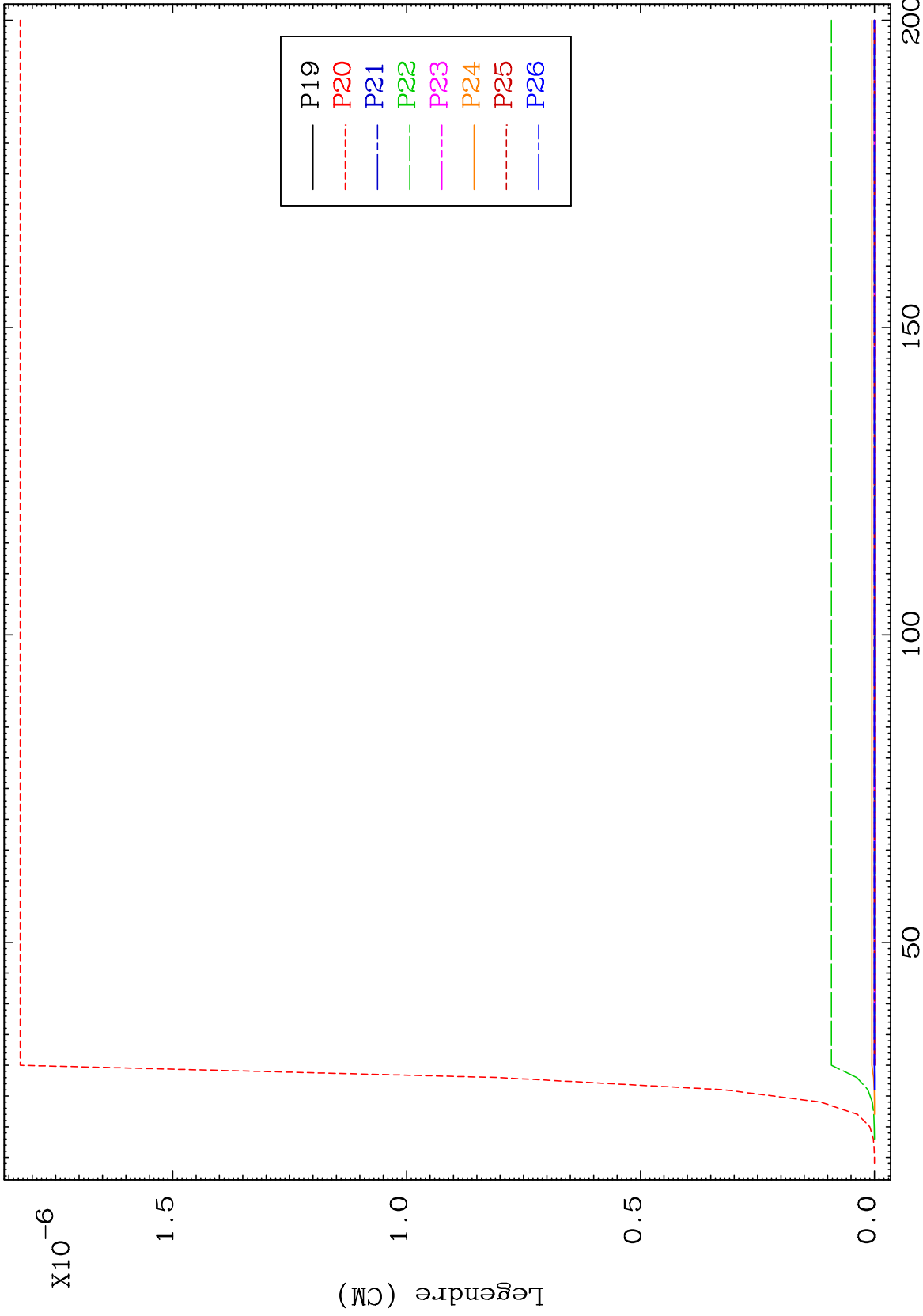
68

61-Pm-138

MAT 6122

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

61-Pm-138



69

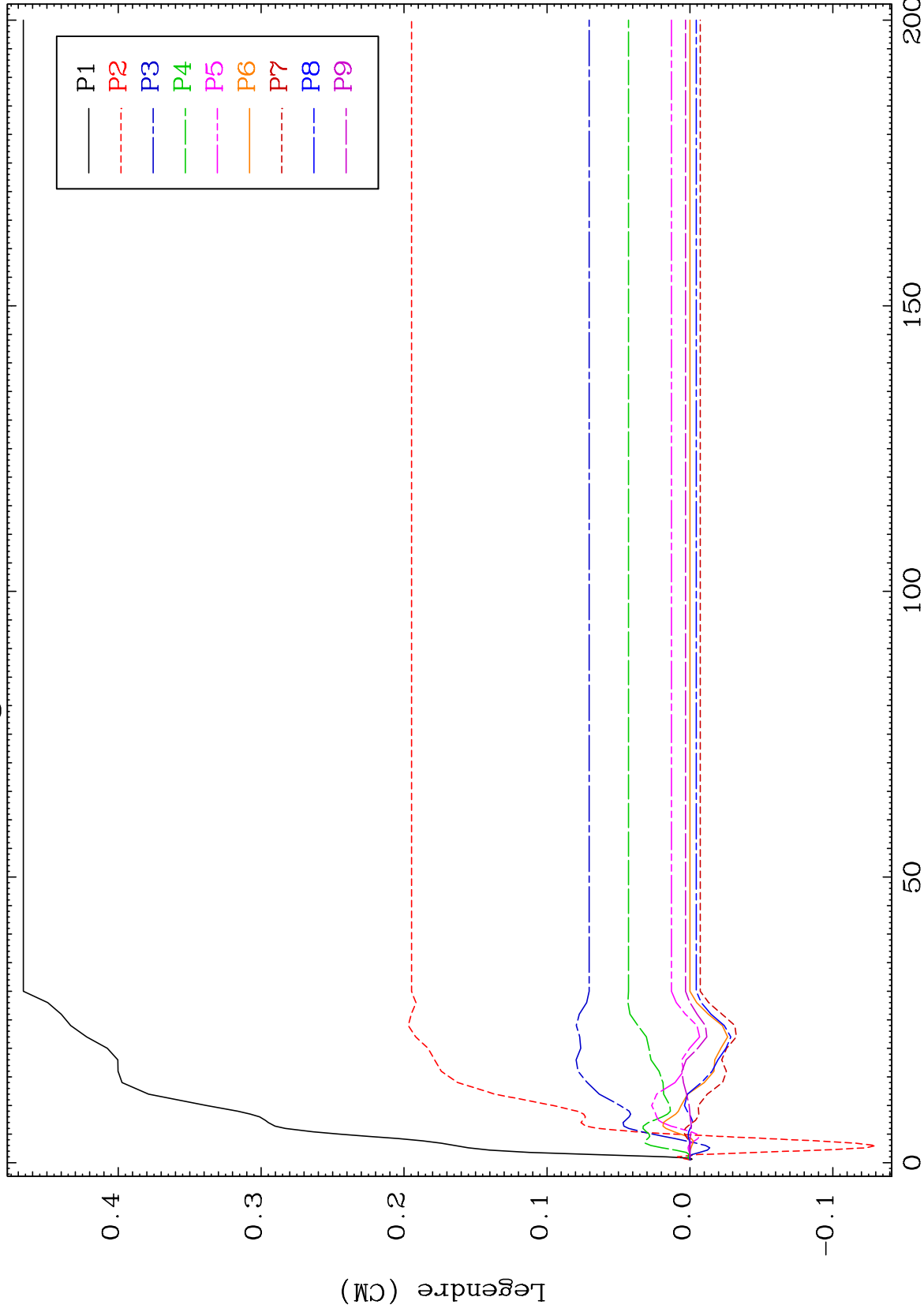
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

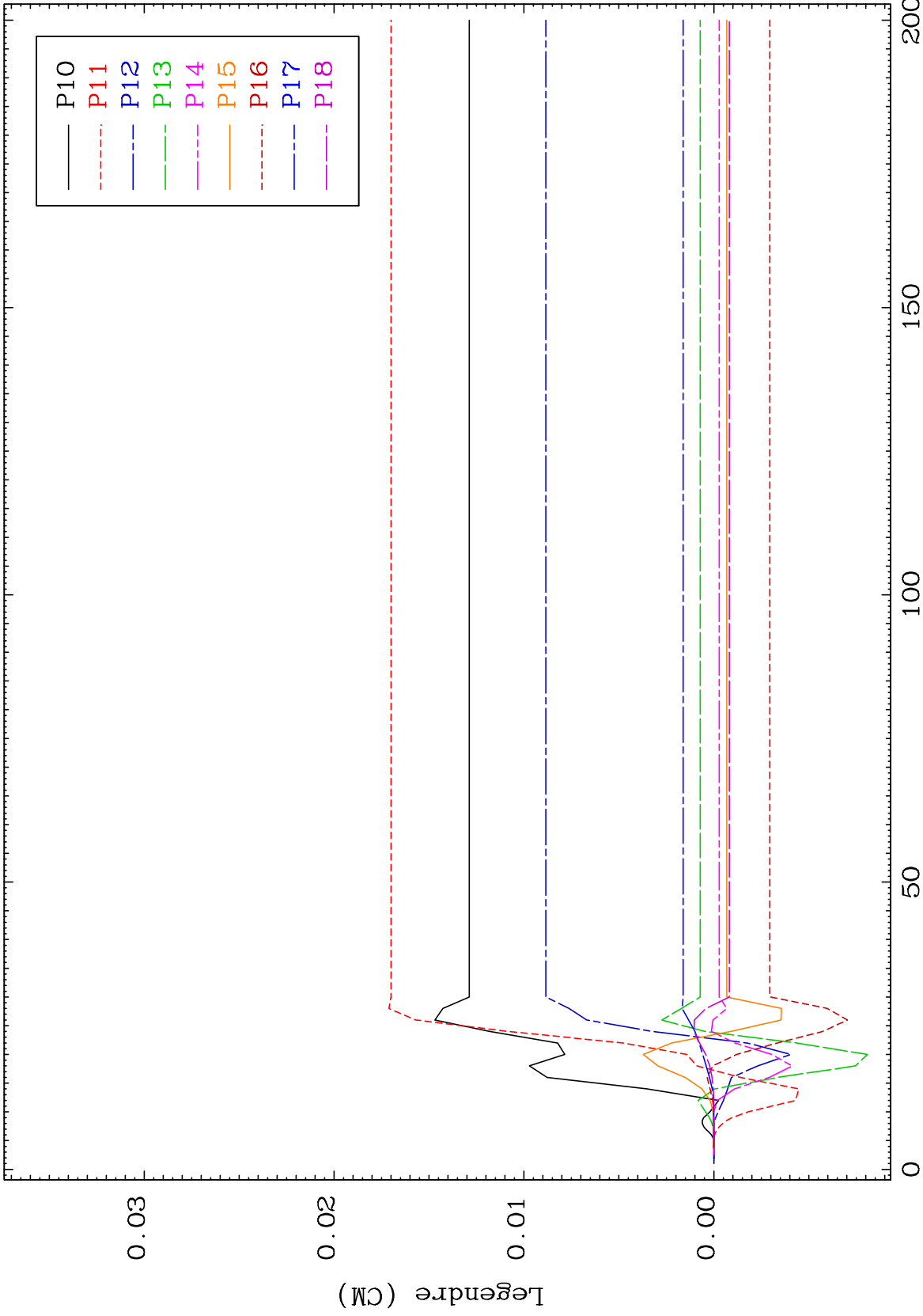
Incident Energy (MeV)

70

MAT 6122

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

61-Pm-138



71

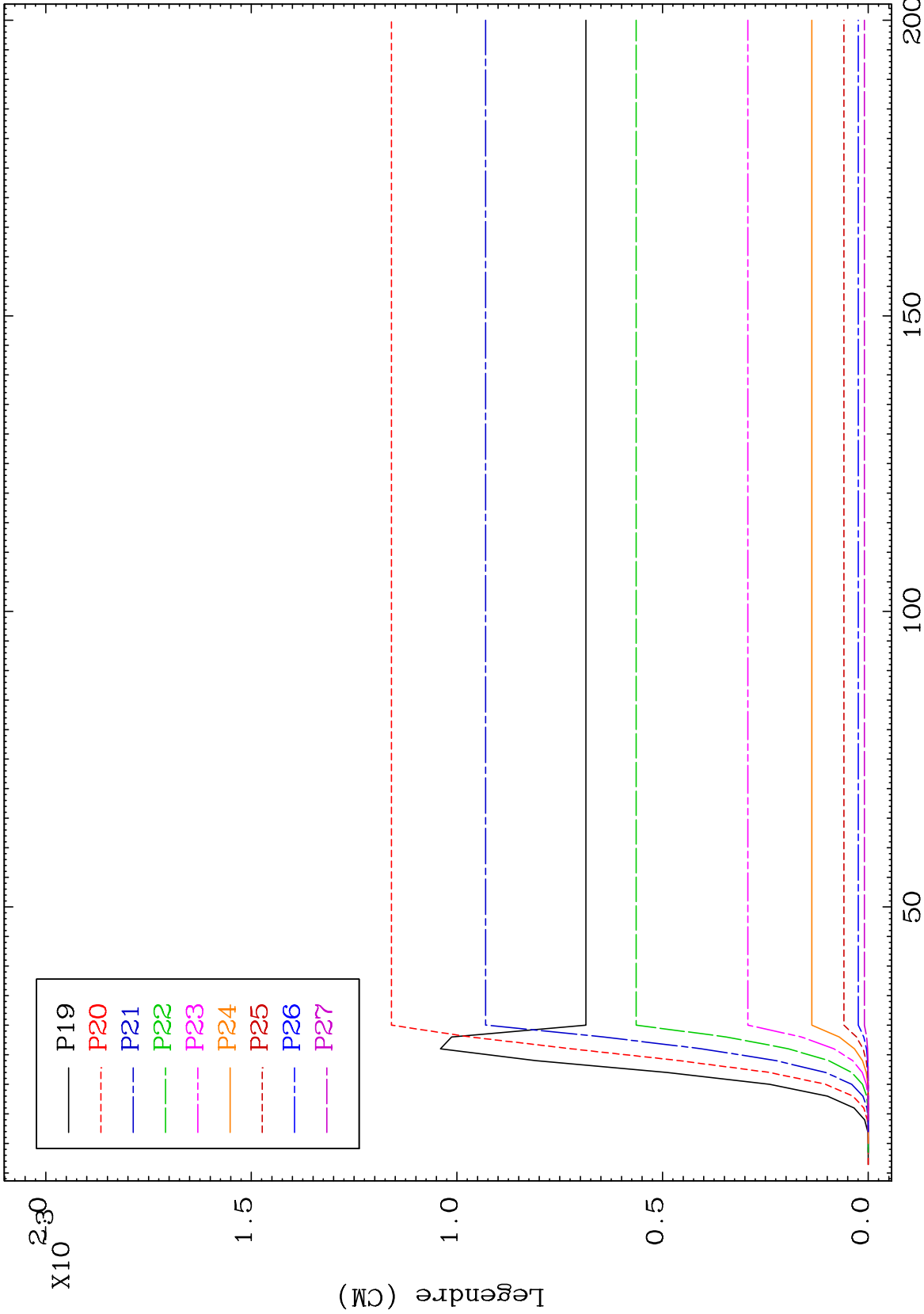
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



72

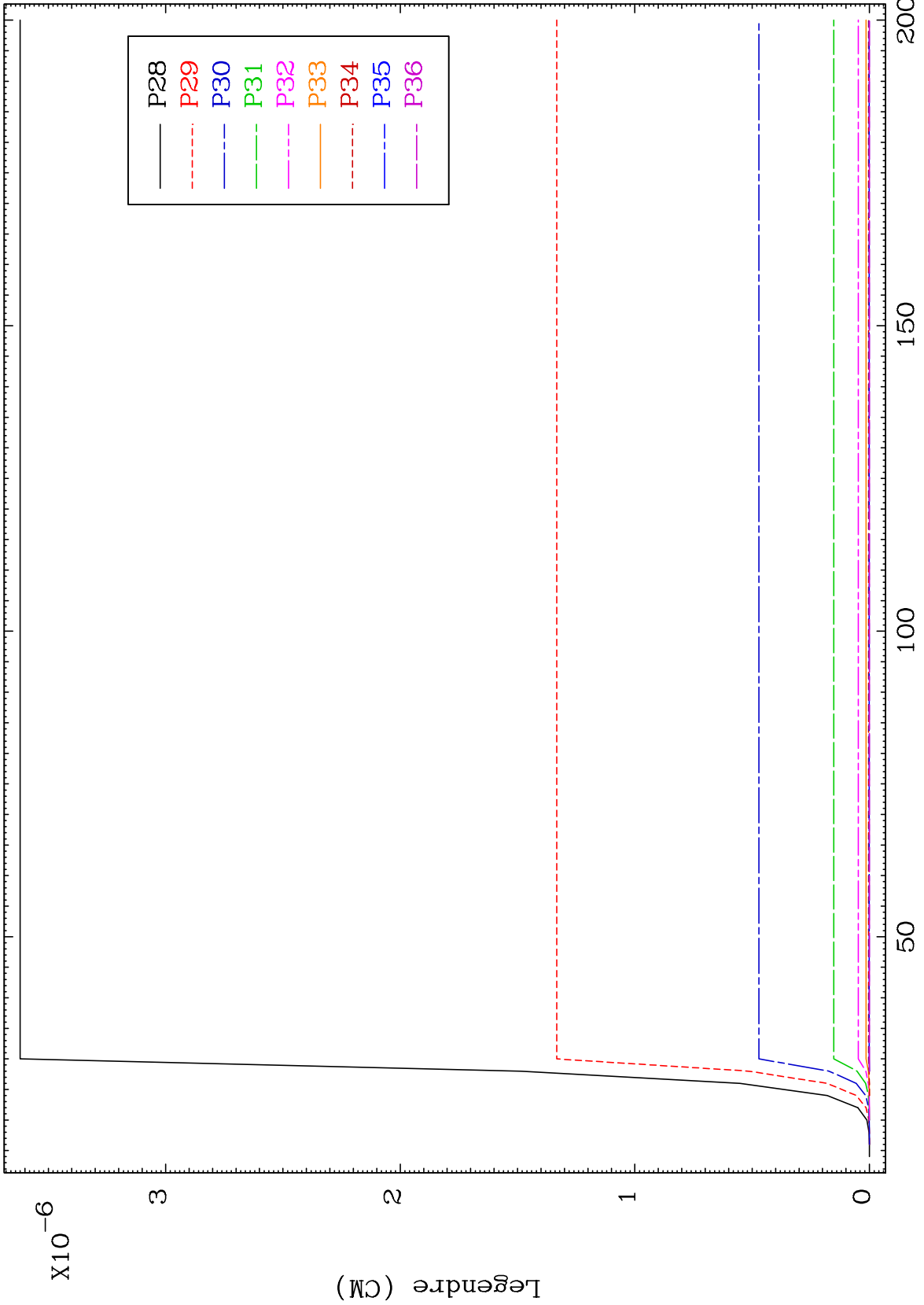
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



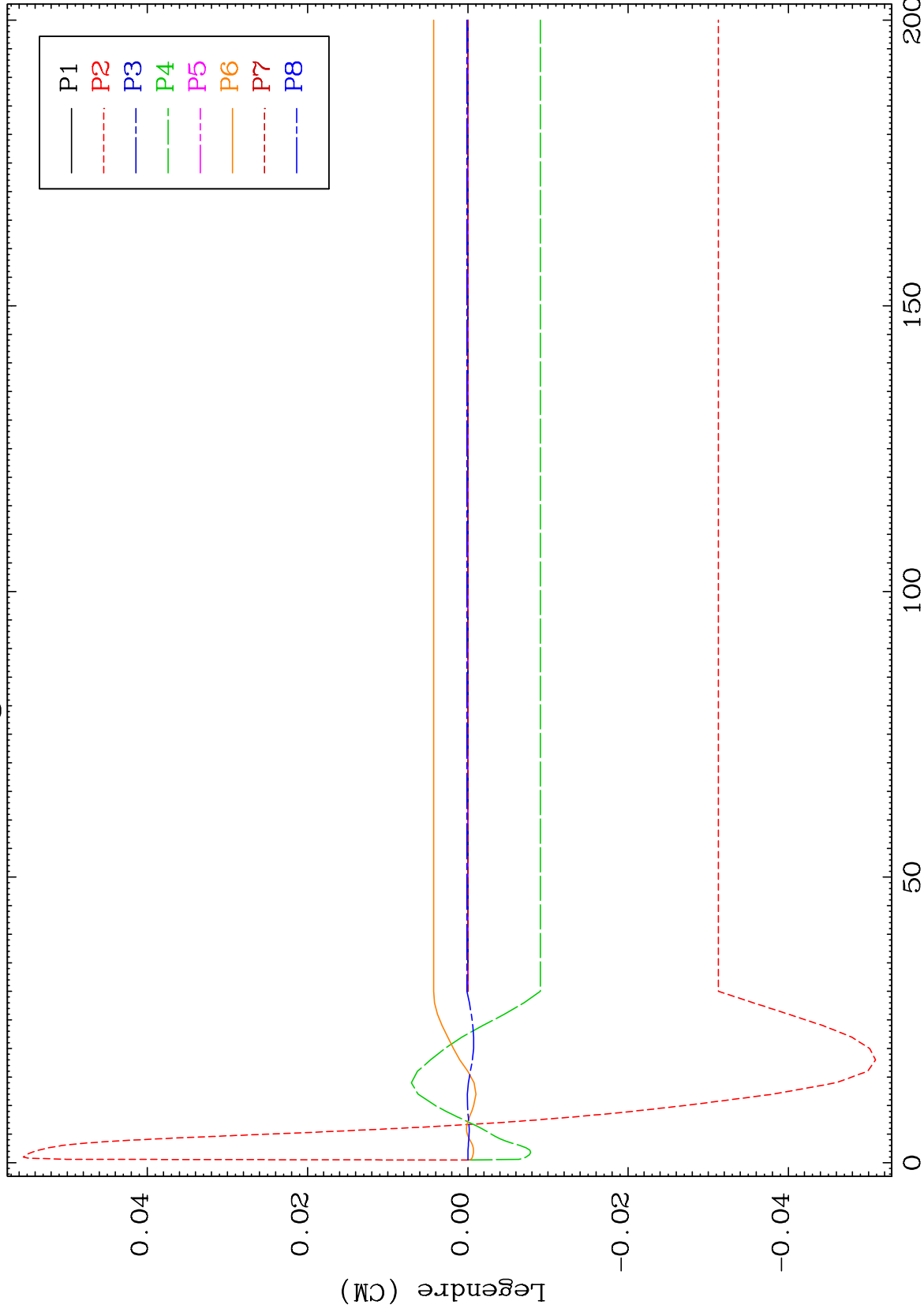
73

61-Pm-138

MAT 6122

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

61-Pm-138

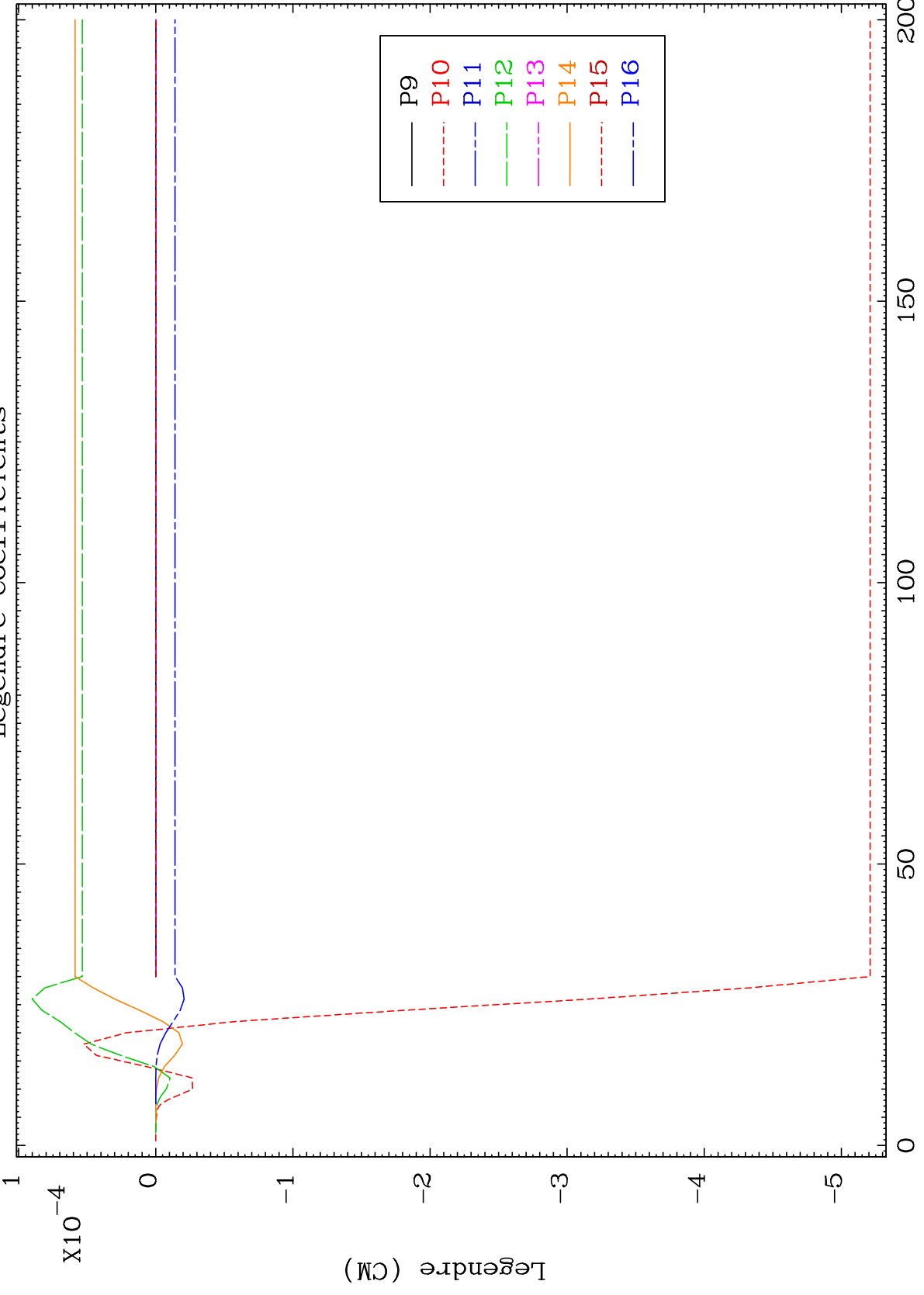


74

Incident Energy (MeV)

61-Pm-138

MAT 6122 MT= 66 (n,n') Level Legendre Coefficients 61-Pm-138

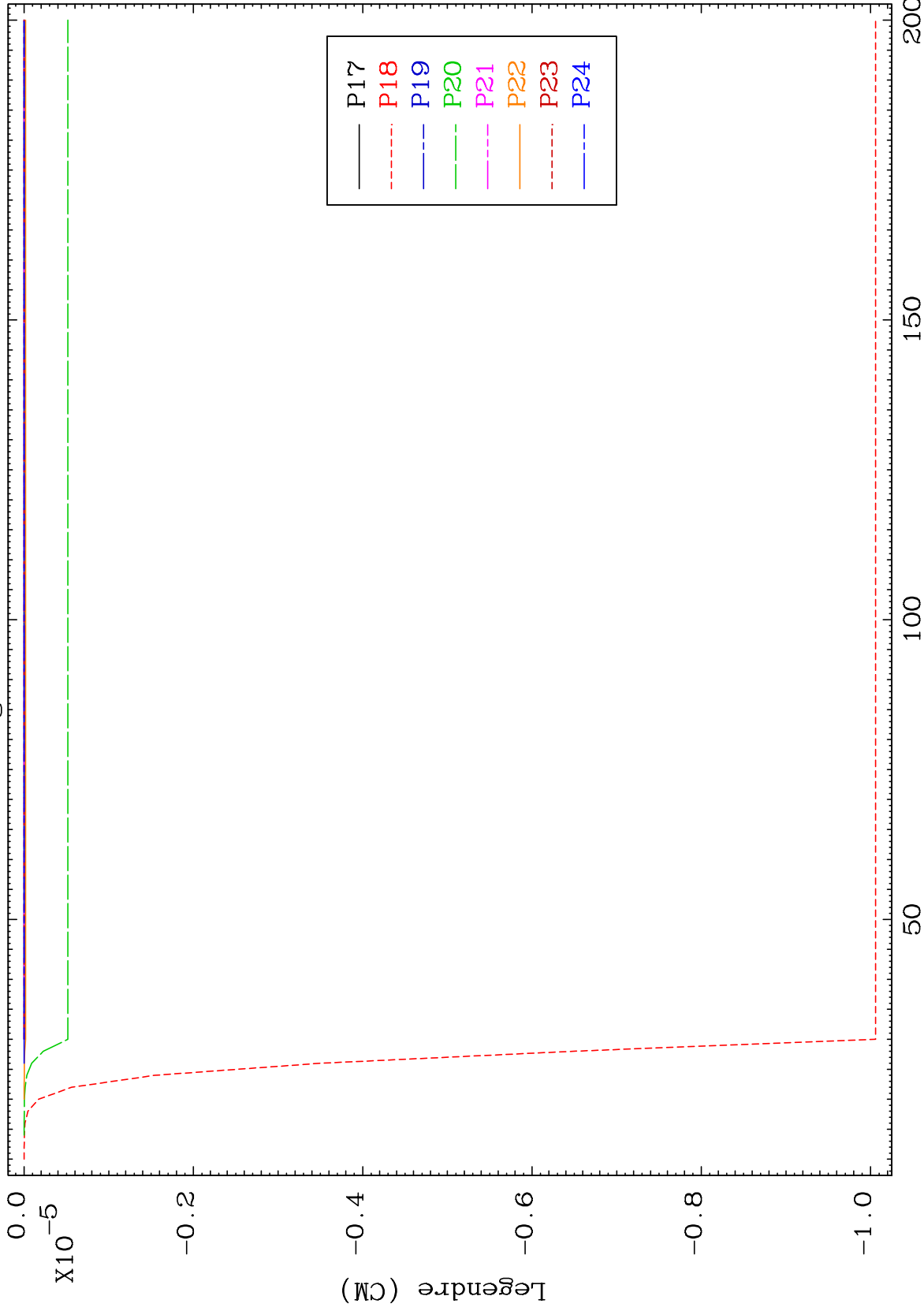


75 Incident Energy (MeV) 61-Pm-138

MAT 6122

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

61-Pm-138



76

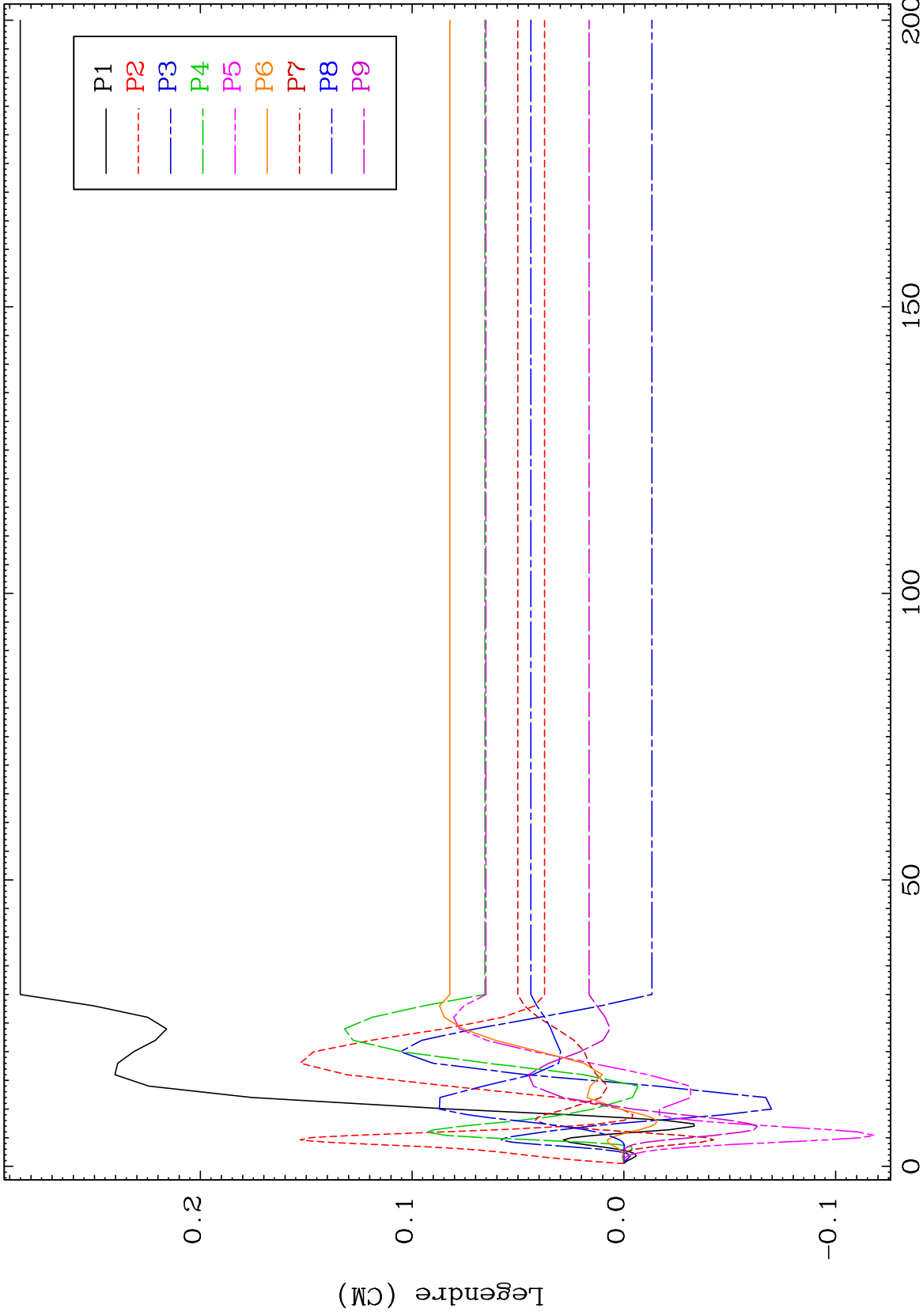
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



77

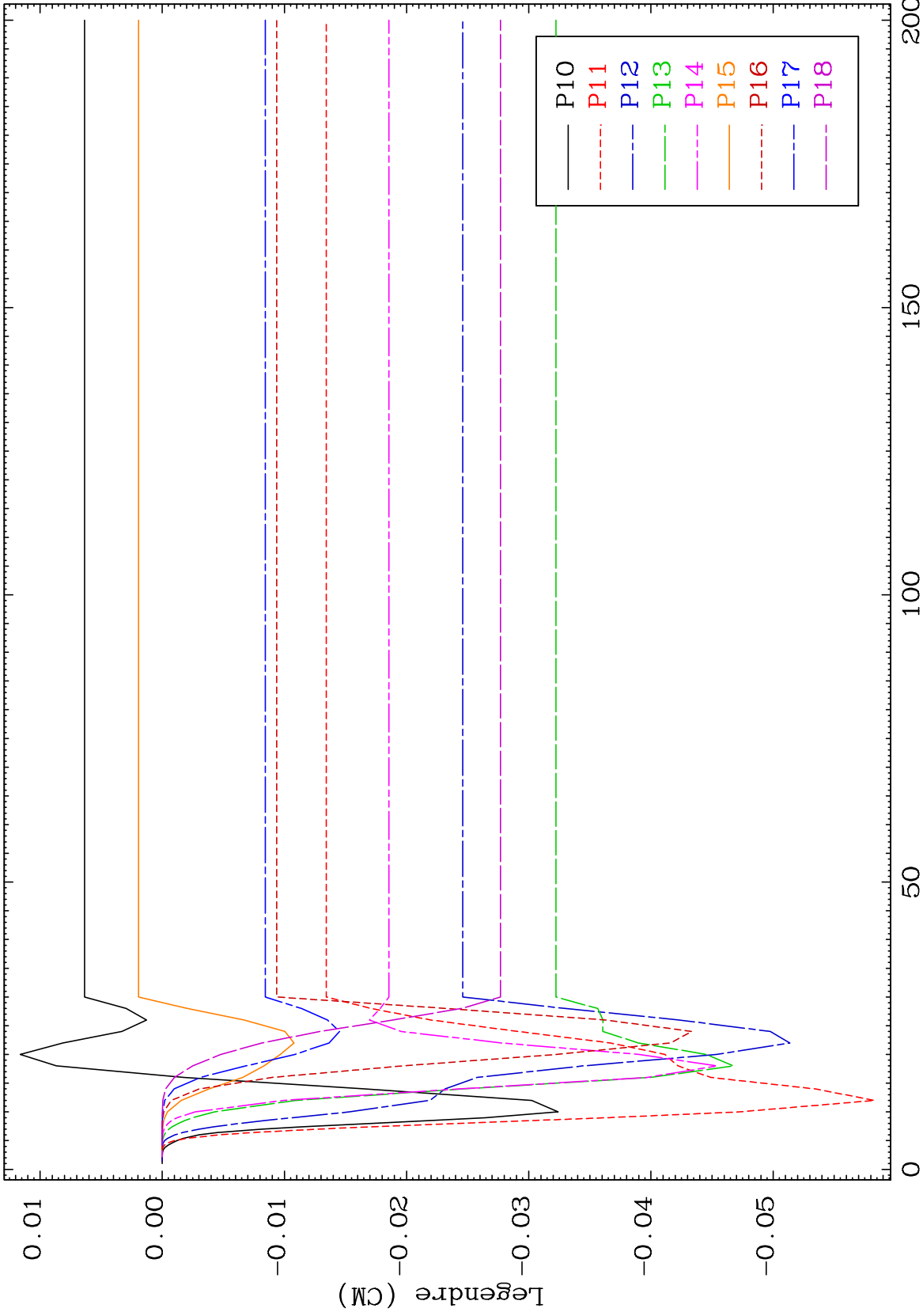
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



78

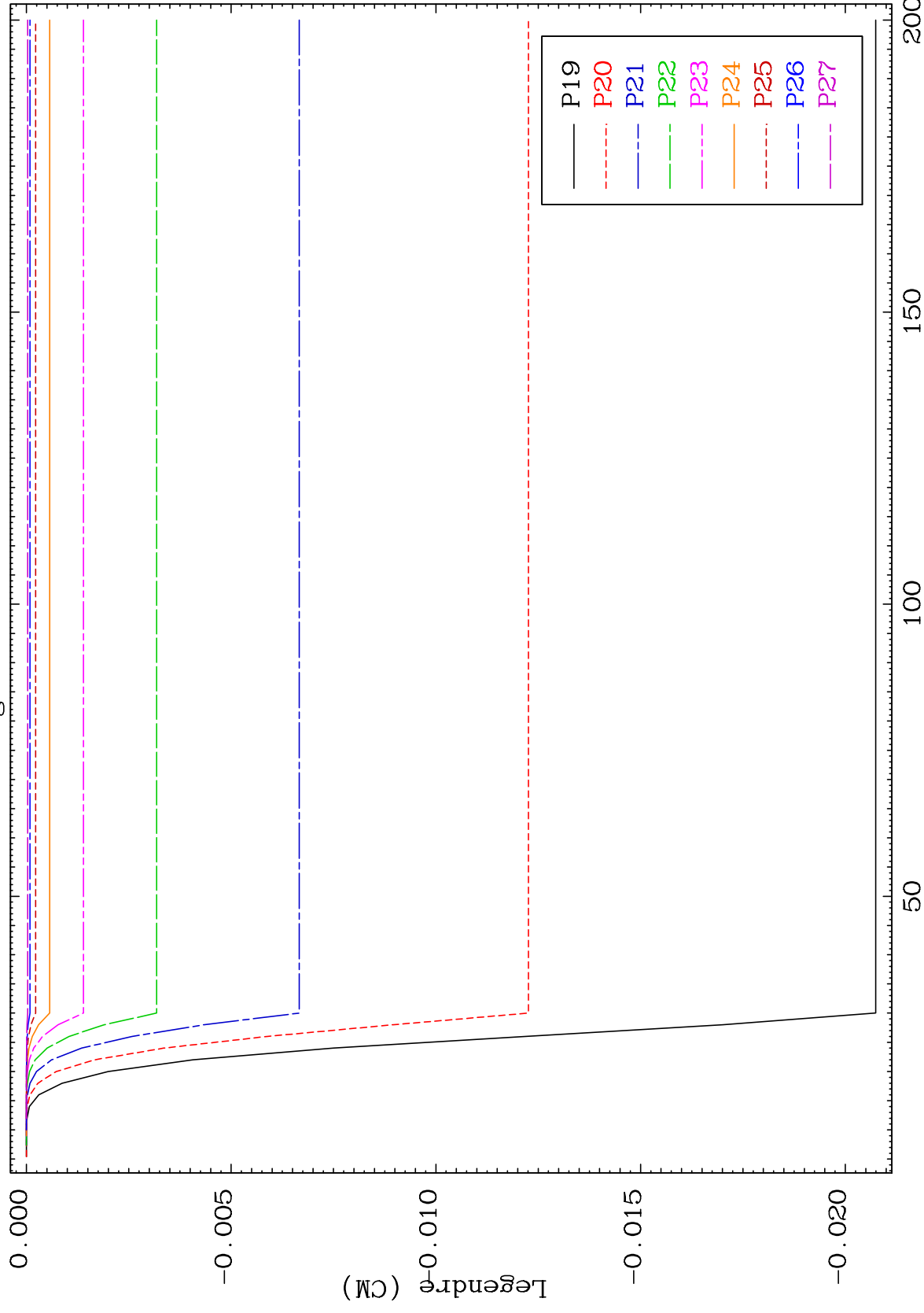
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

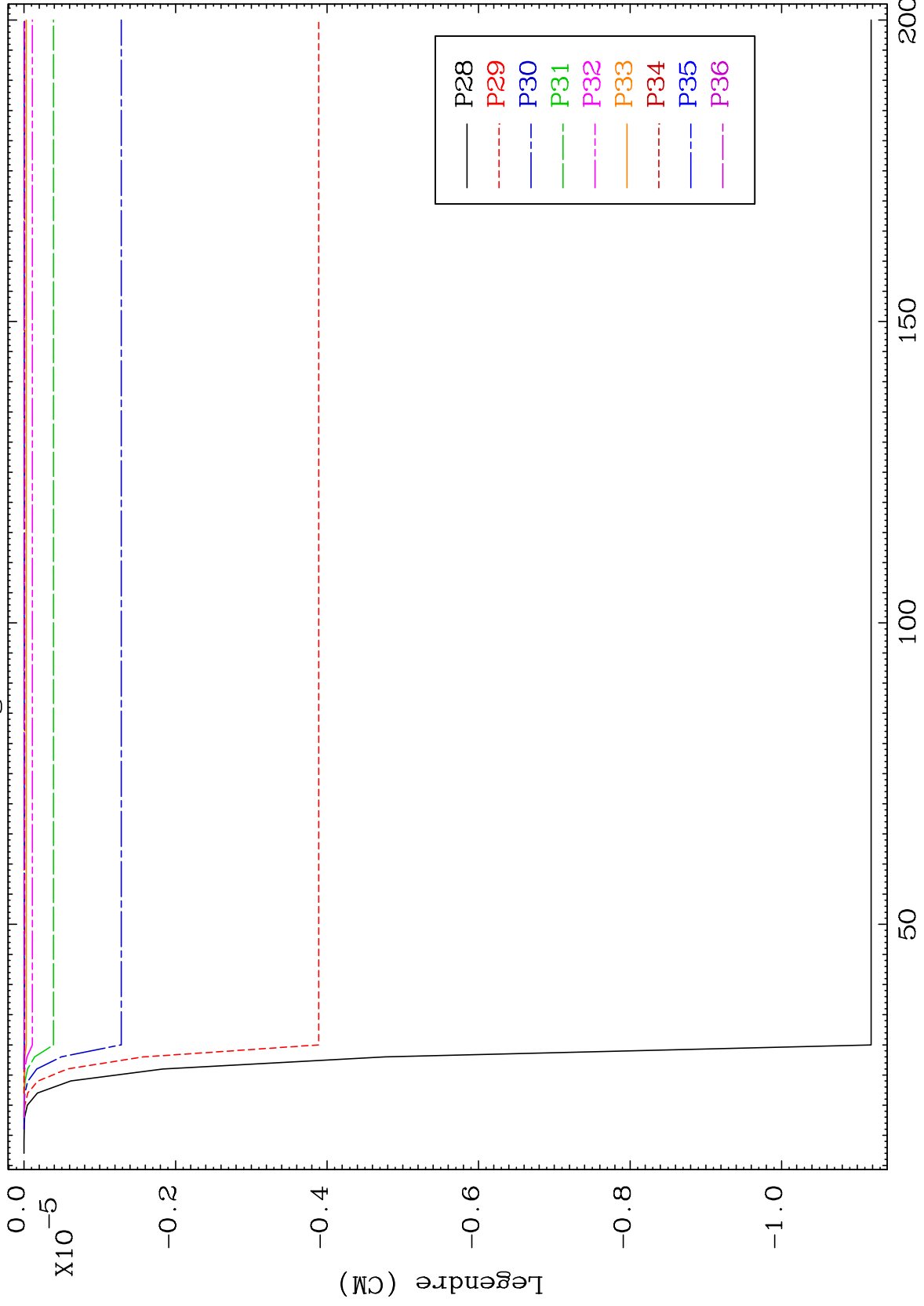
Incident Energy (MeV)

79

MAT 6122

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

61-Pm-138



61-Pm-138

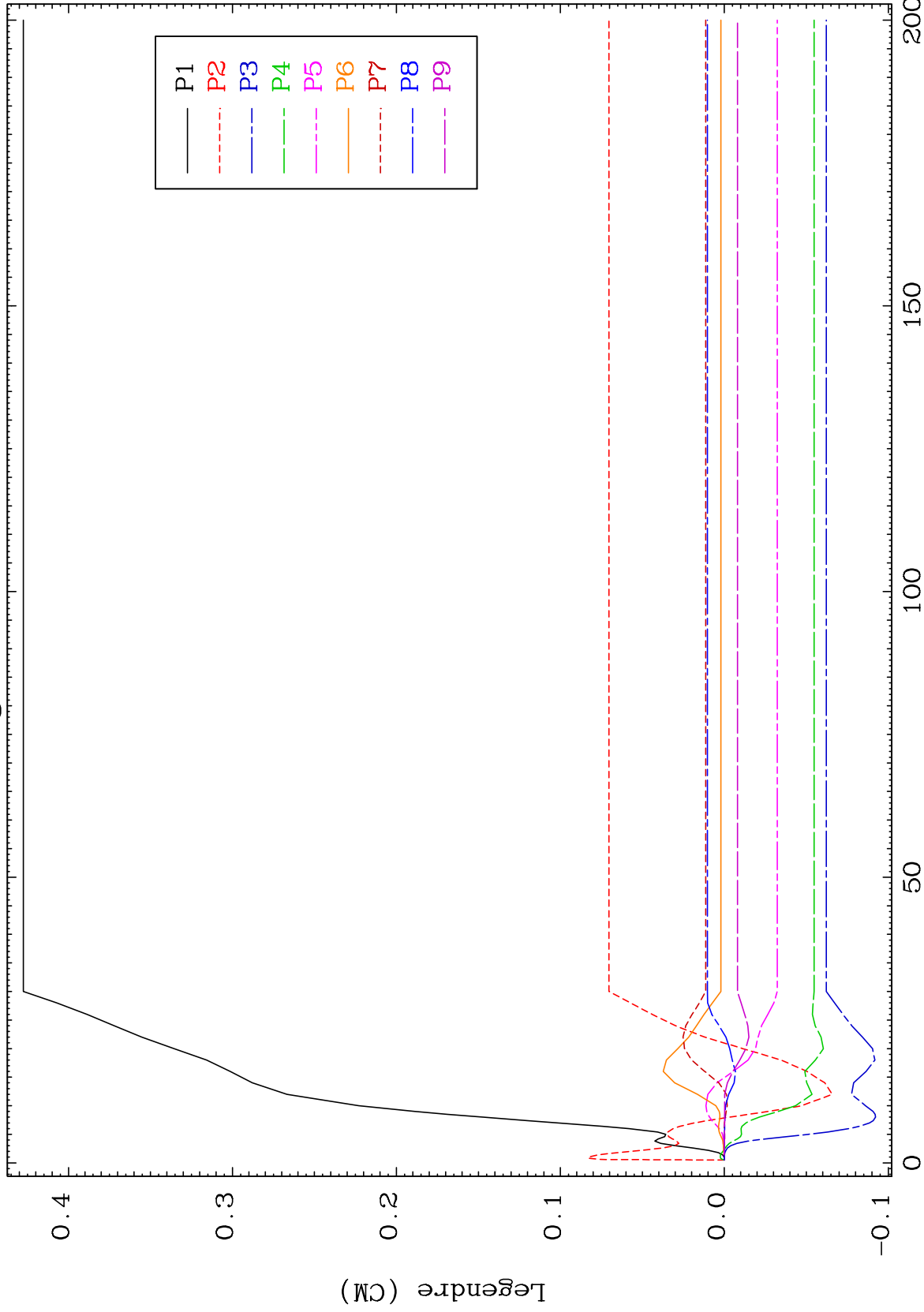
Incident Energy (MeV)

80

MAT 6122

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

61-Pm-138



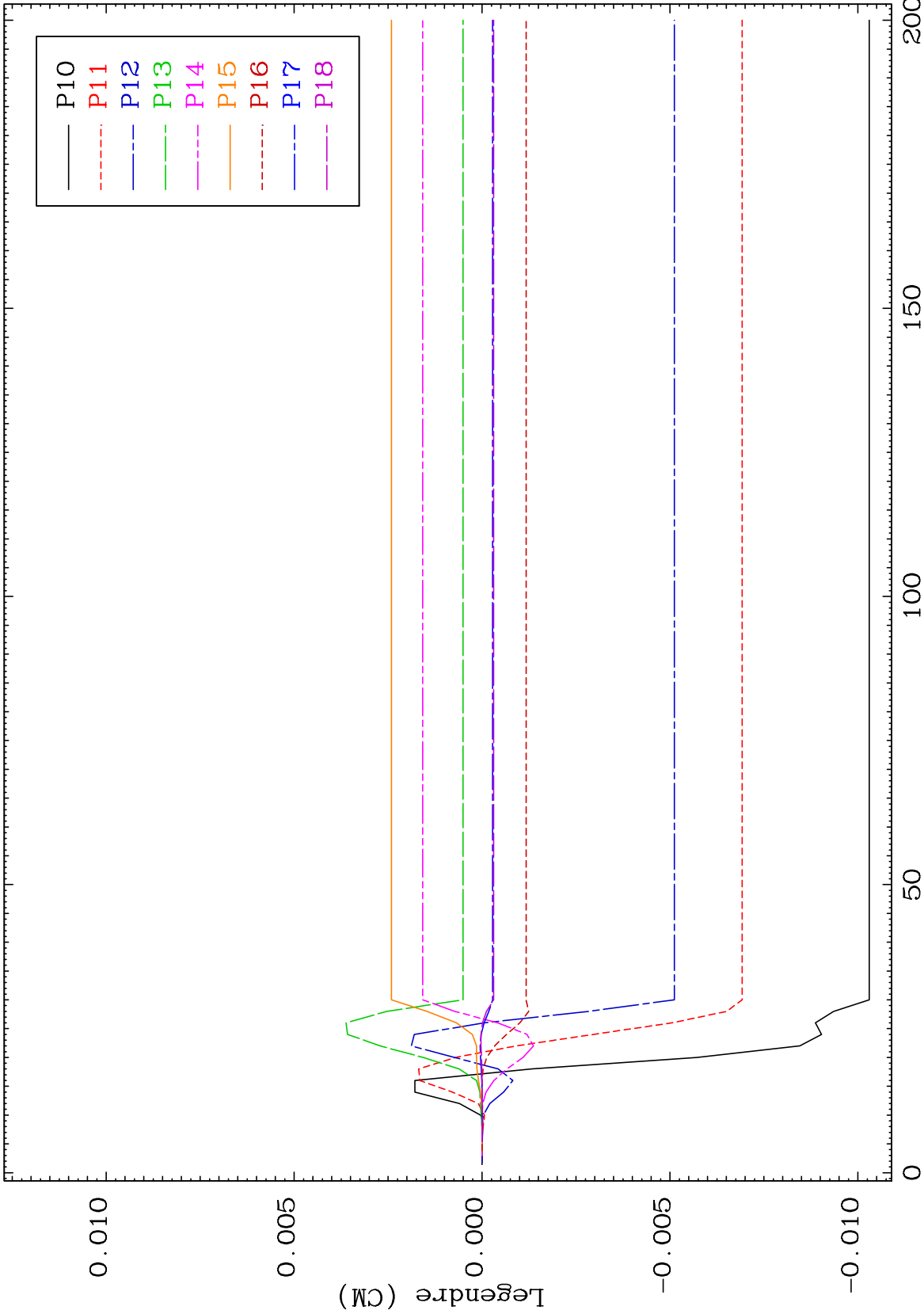
81

61-Pm-138

MAT 6122

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

61-Pm-138



82

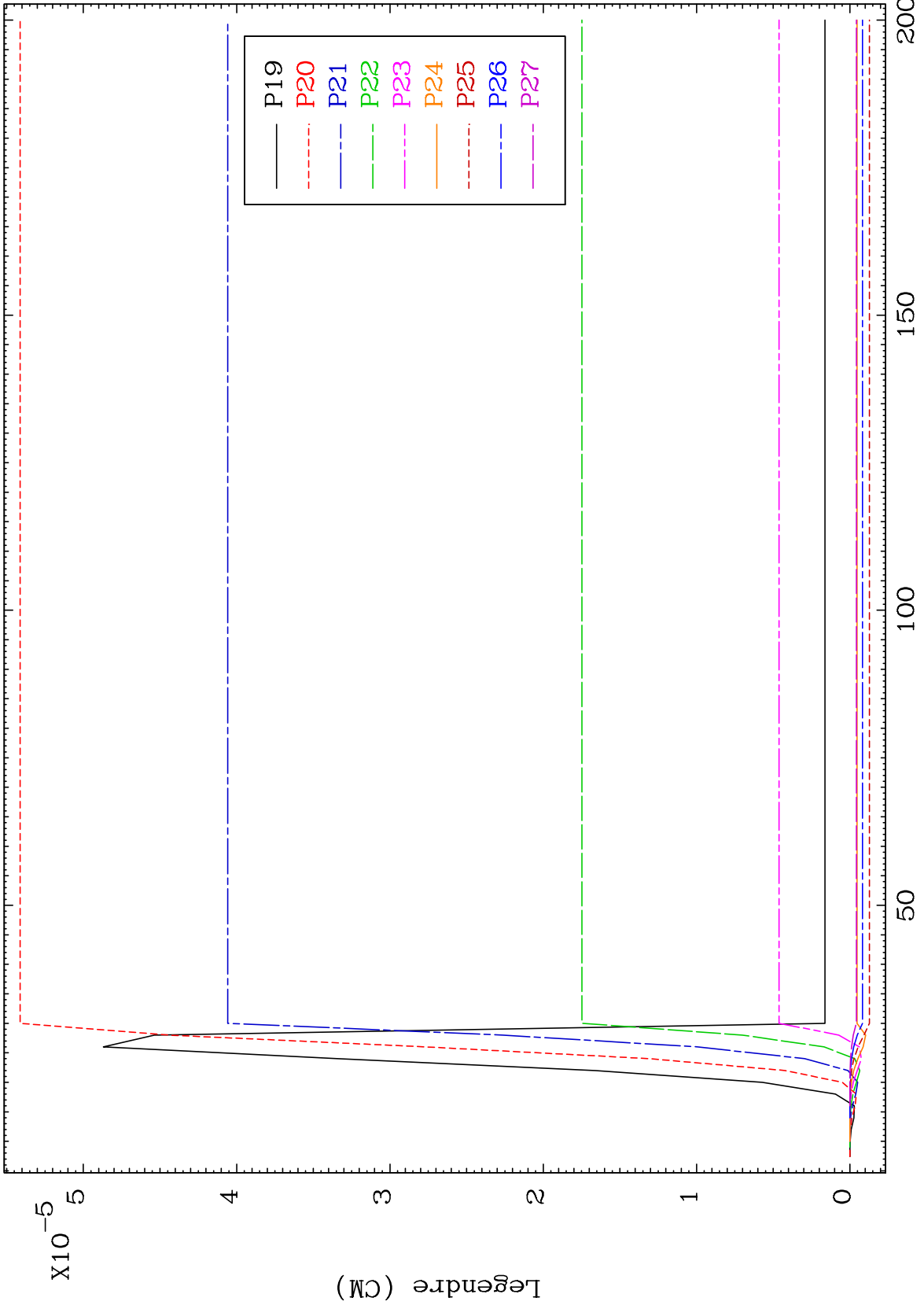
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



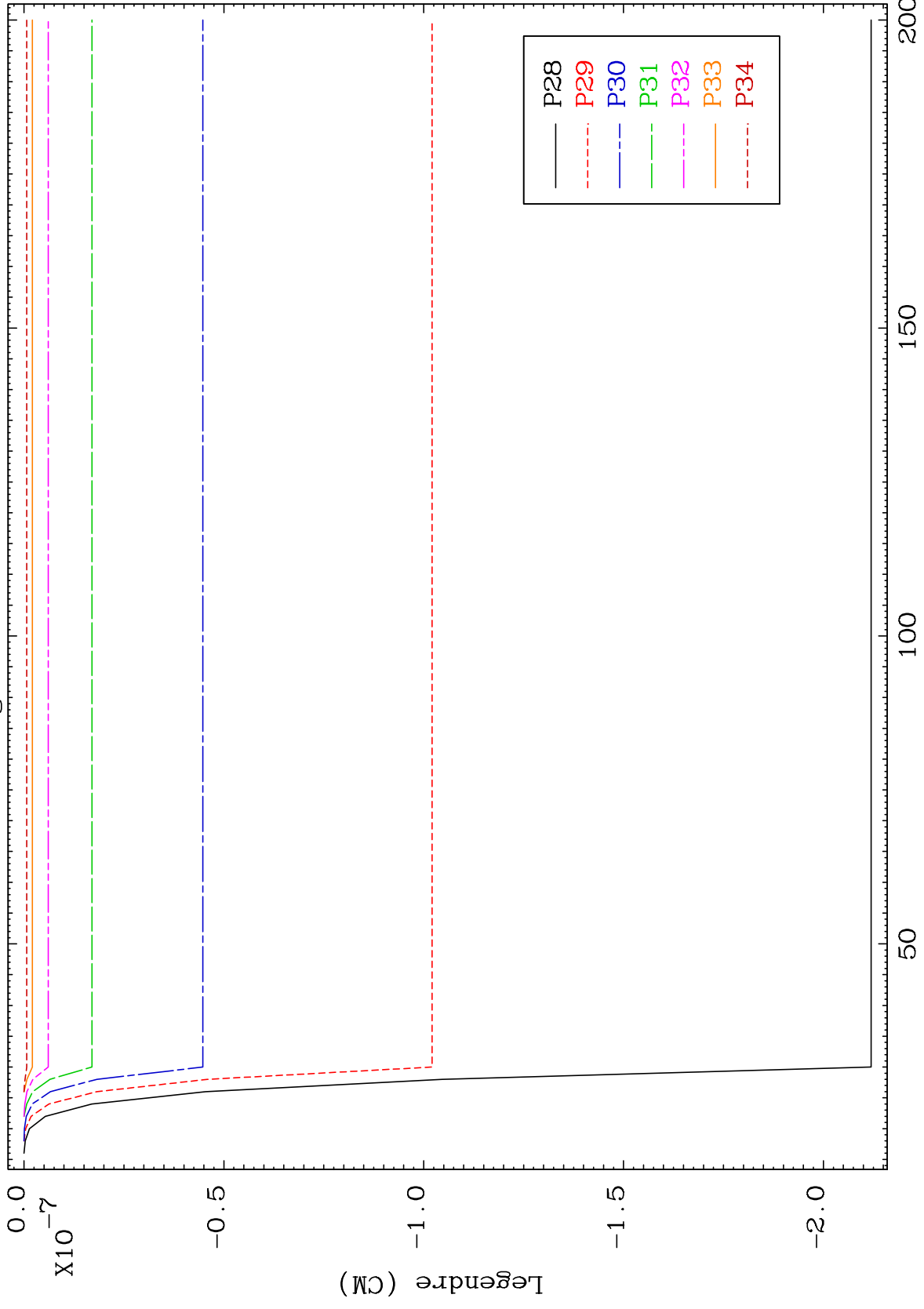
83

61-Pm-138

MAT 6122

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

61-Pm-138



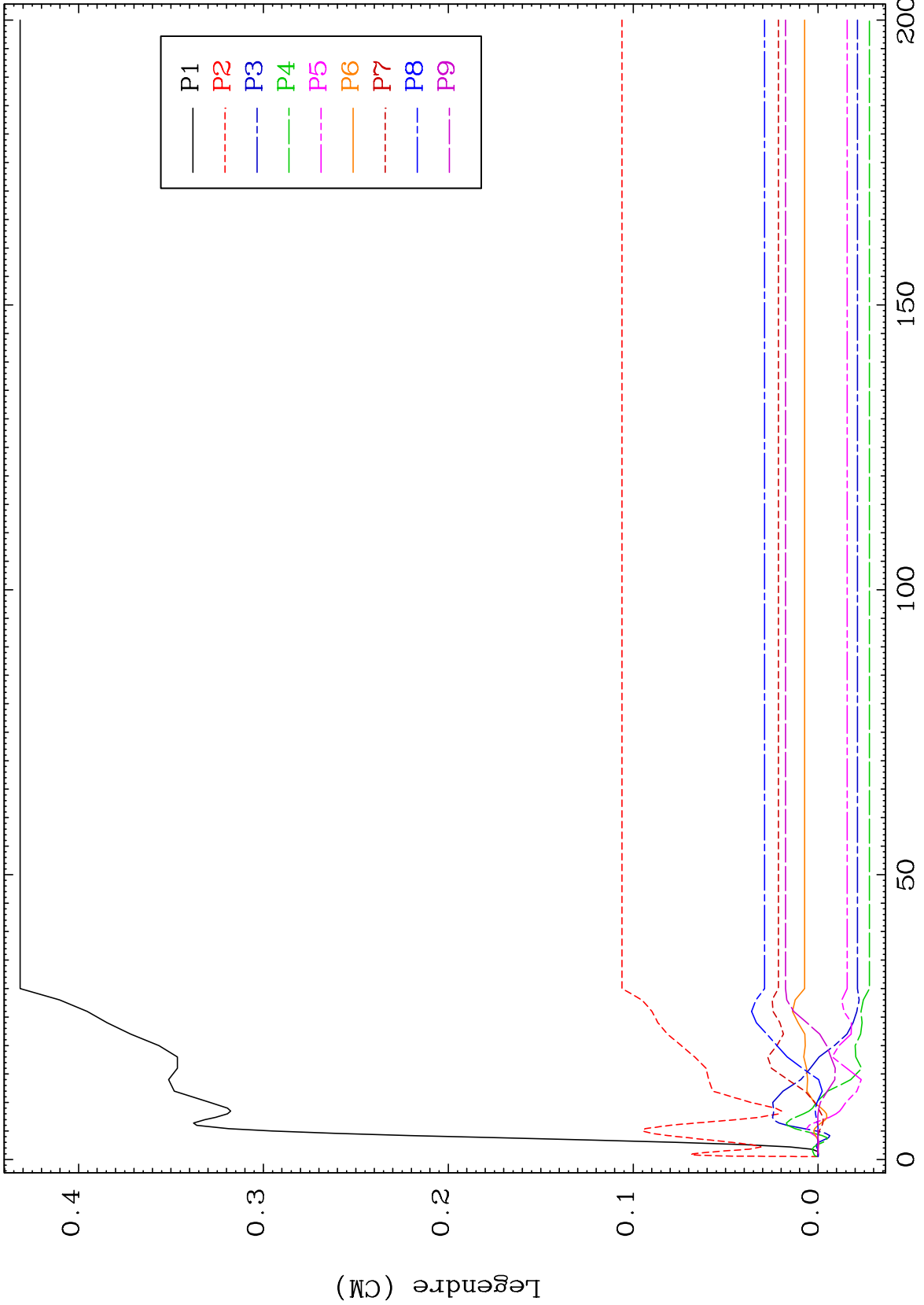
84

61-Pm-138

MAT 6122

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

61-Pm-138



85

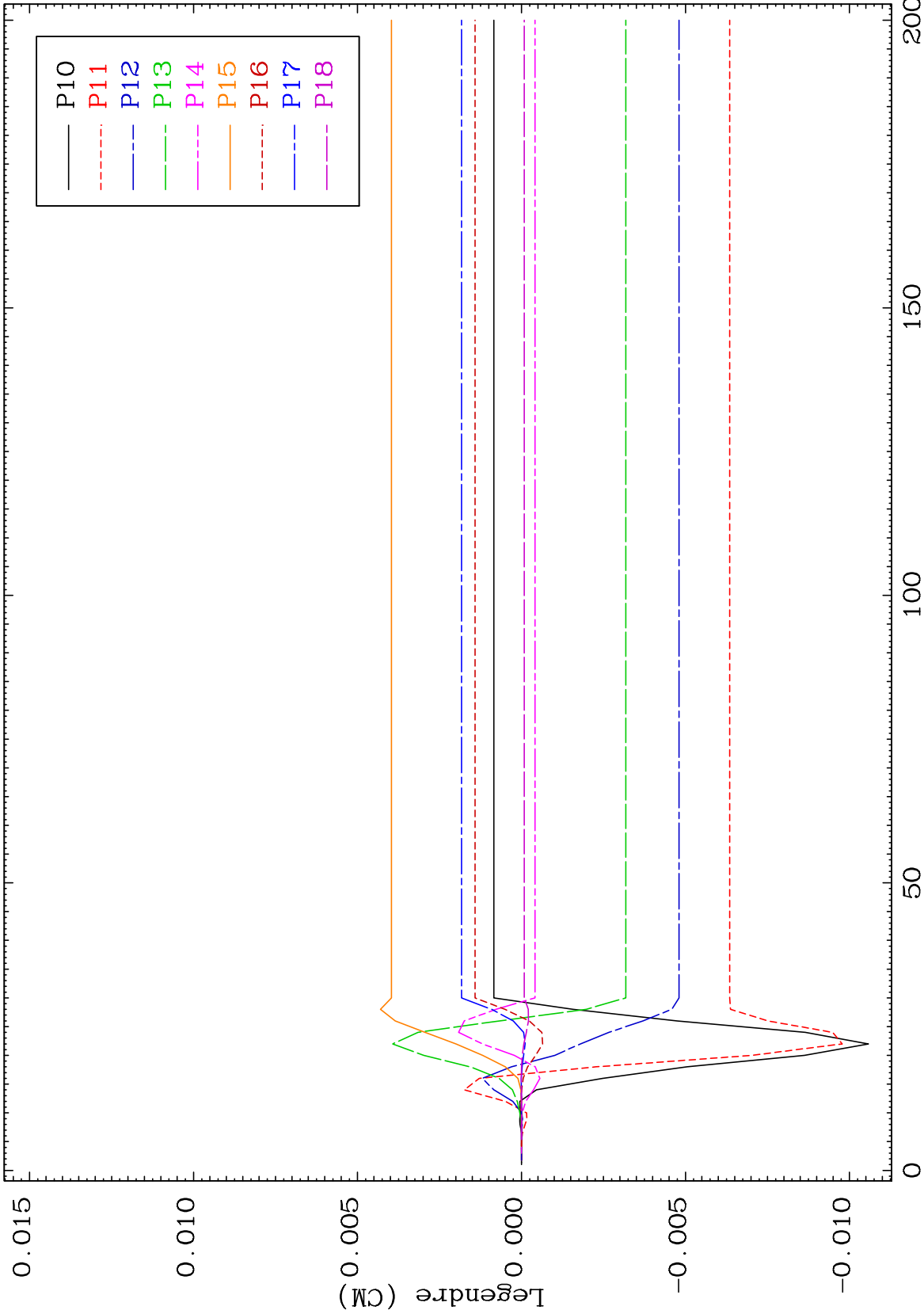
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



86

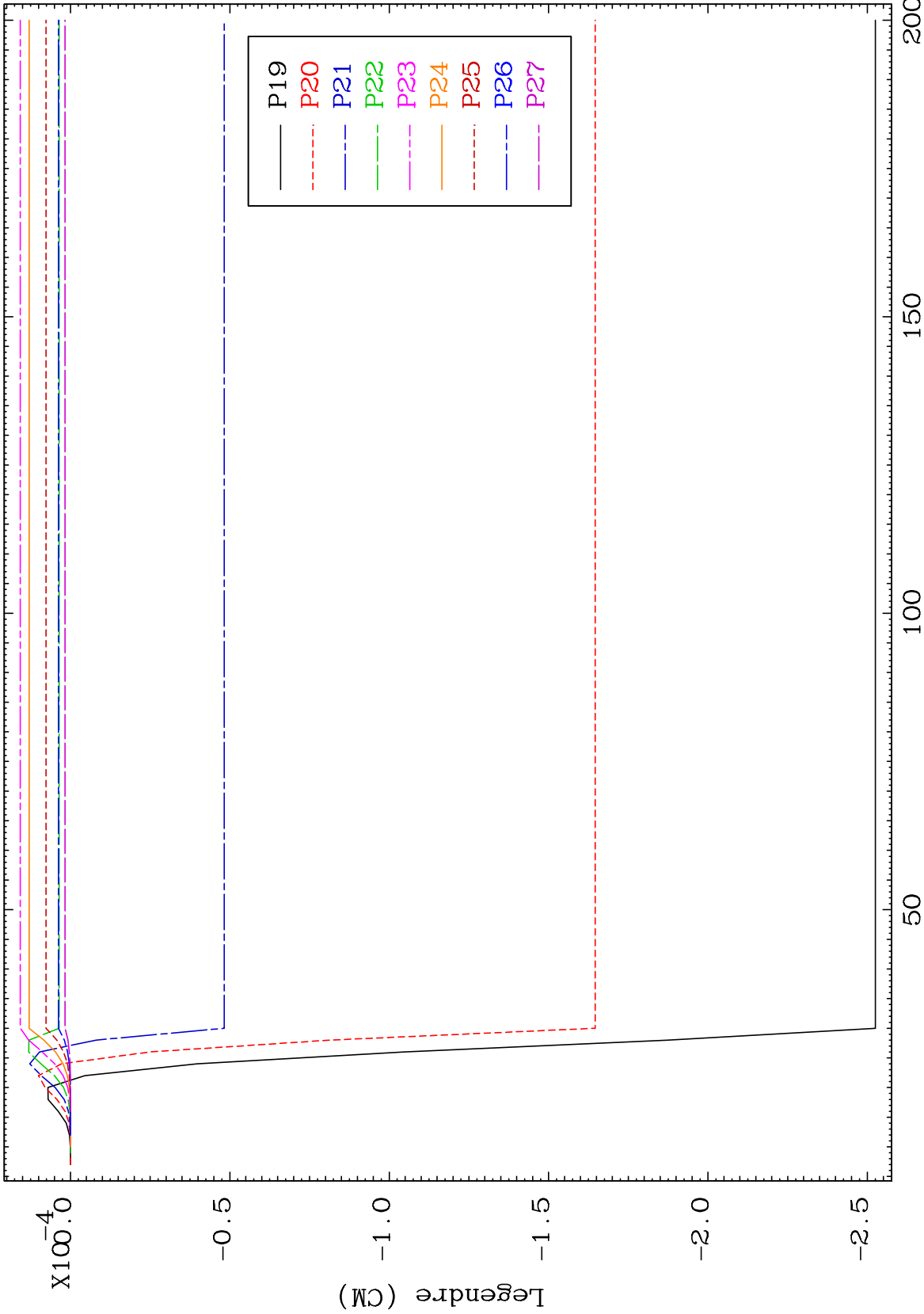
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



87

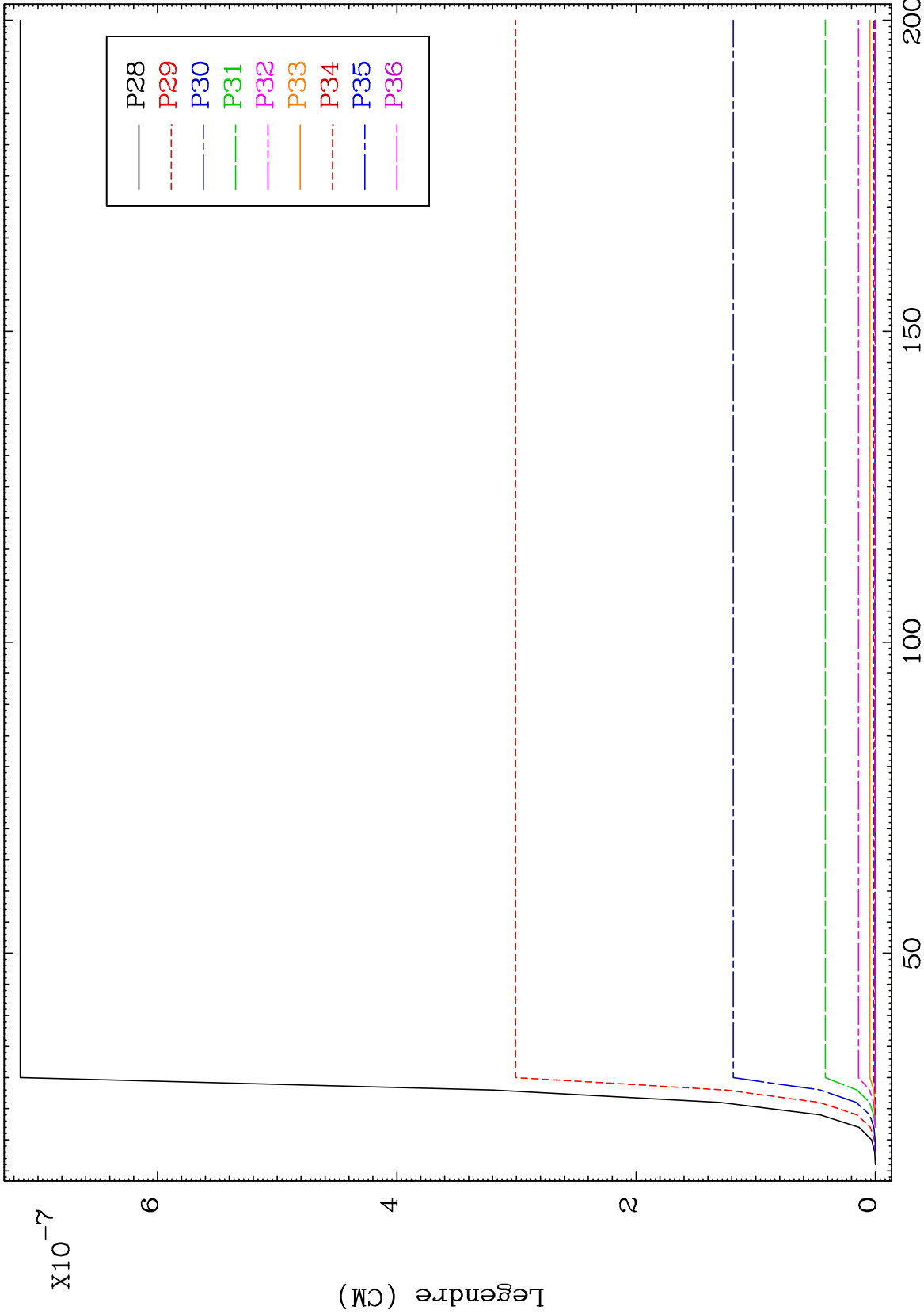
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



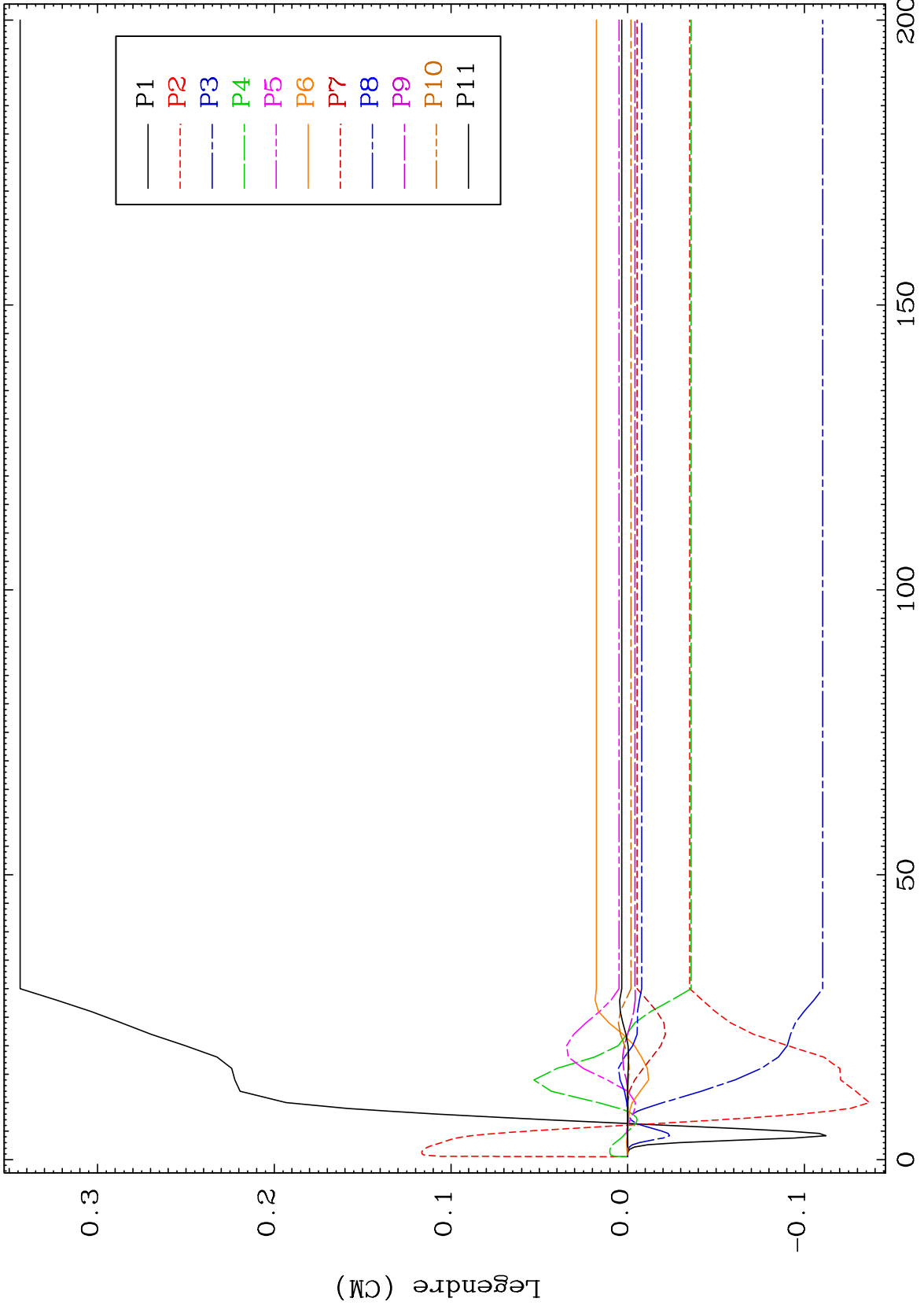
88

61-Pm-138

MAT 6122

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

61-Pm-138



89

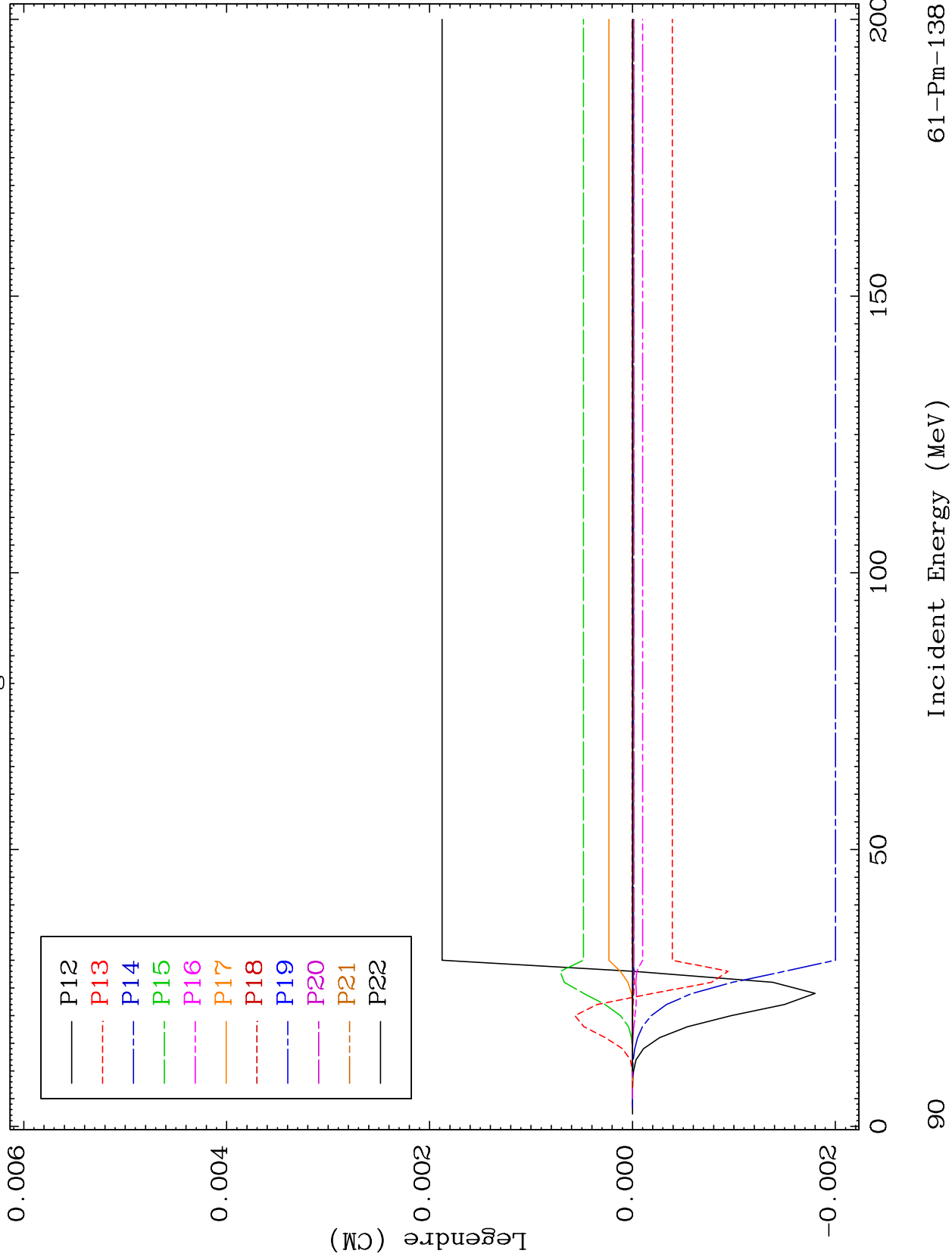
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138

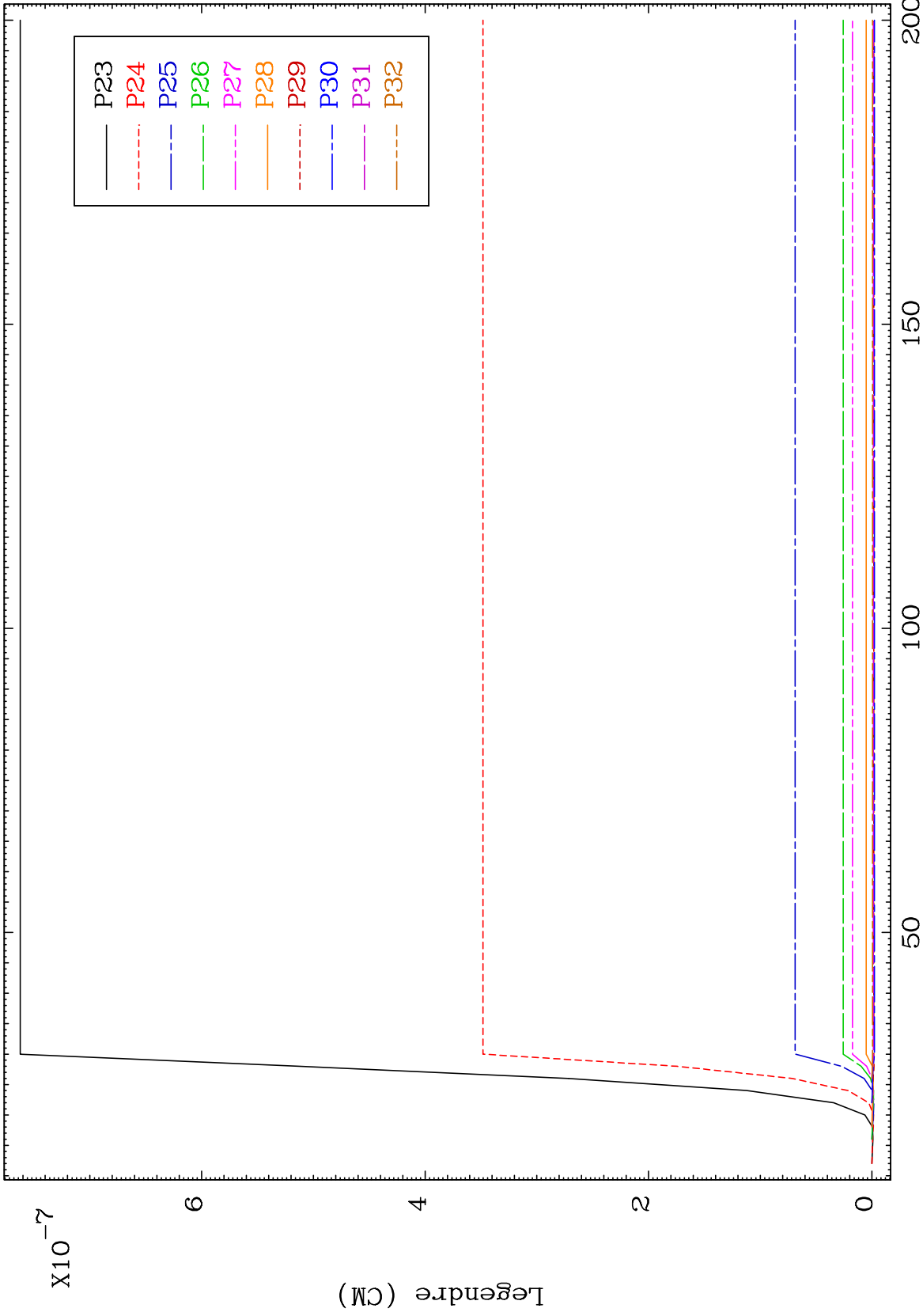


61-Pm-138

MAT 6122

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

61-Pm-138



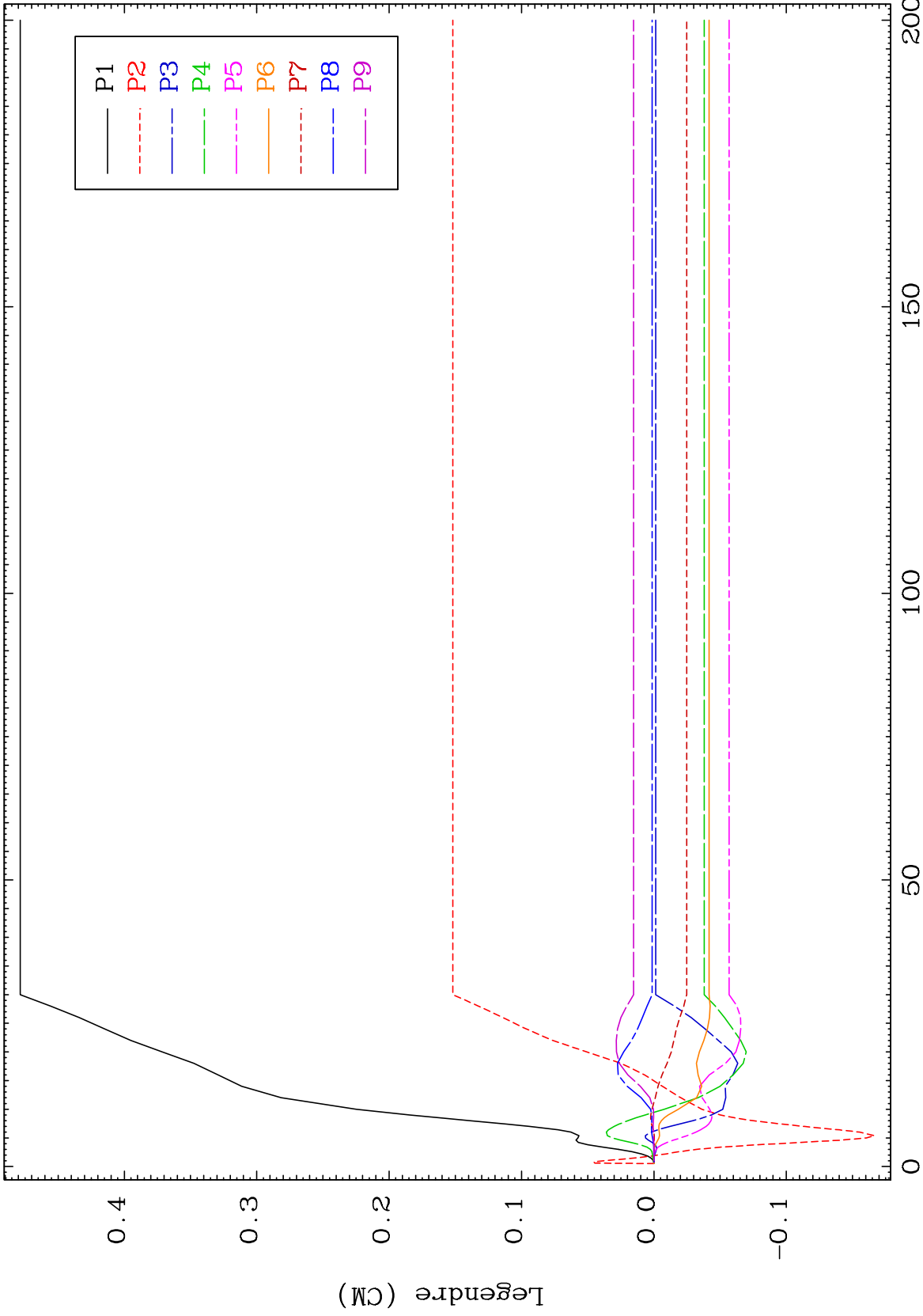
91

61-Pm-138

MAT 6122

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

61-Pm-138



92

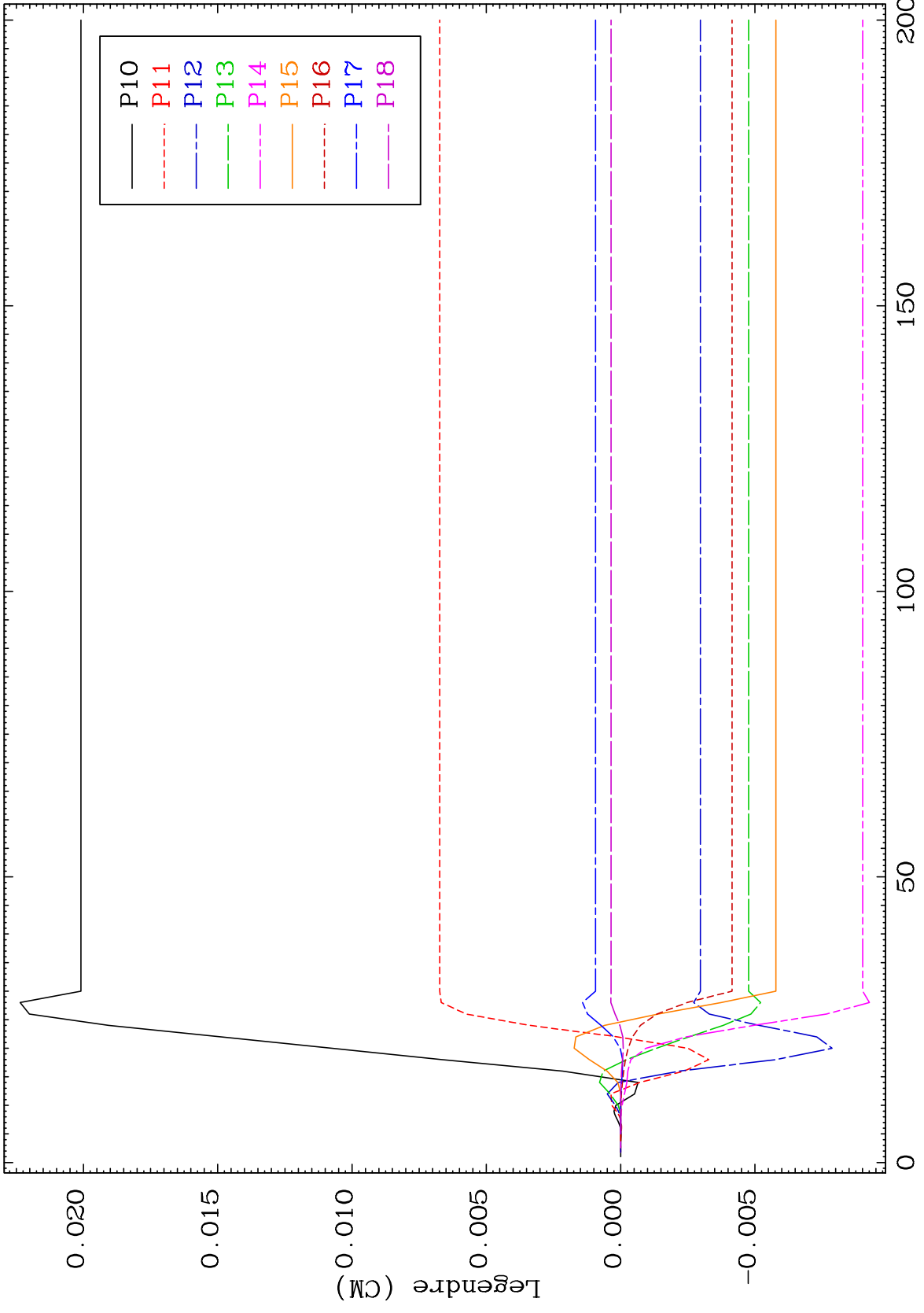
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

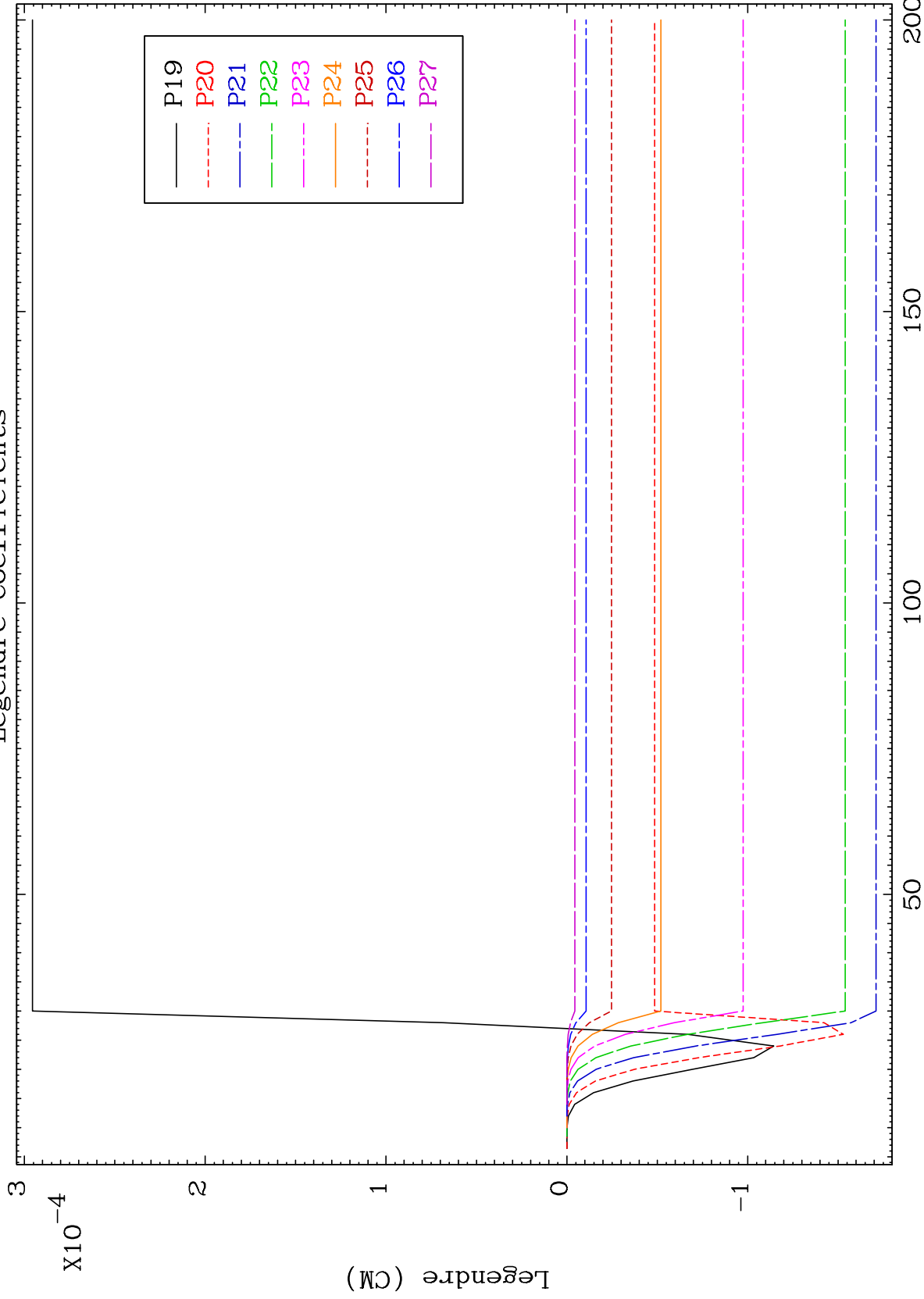
61-Pm-138



93

Incident Energy (MeV)

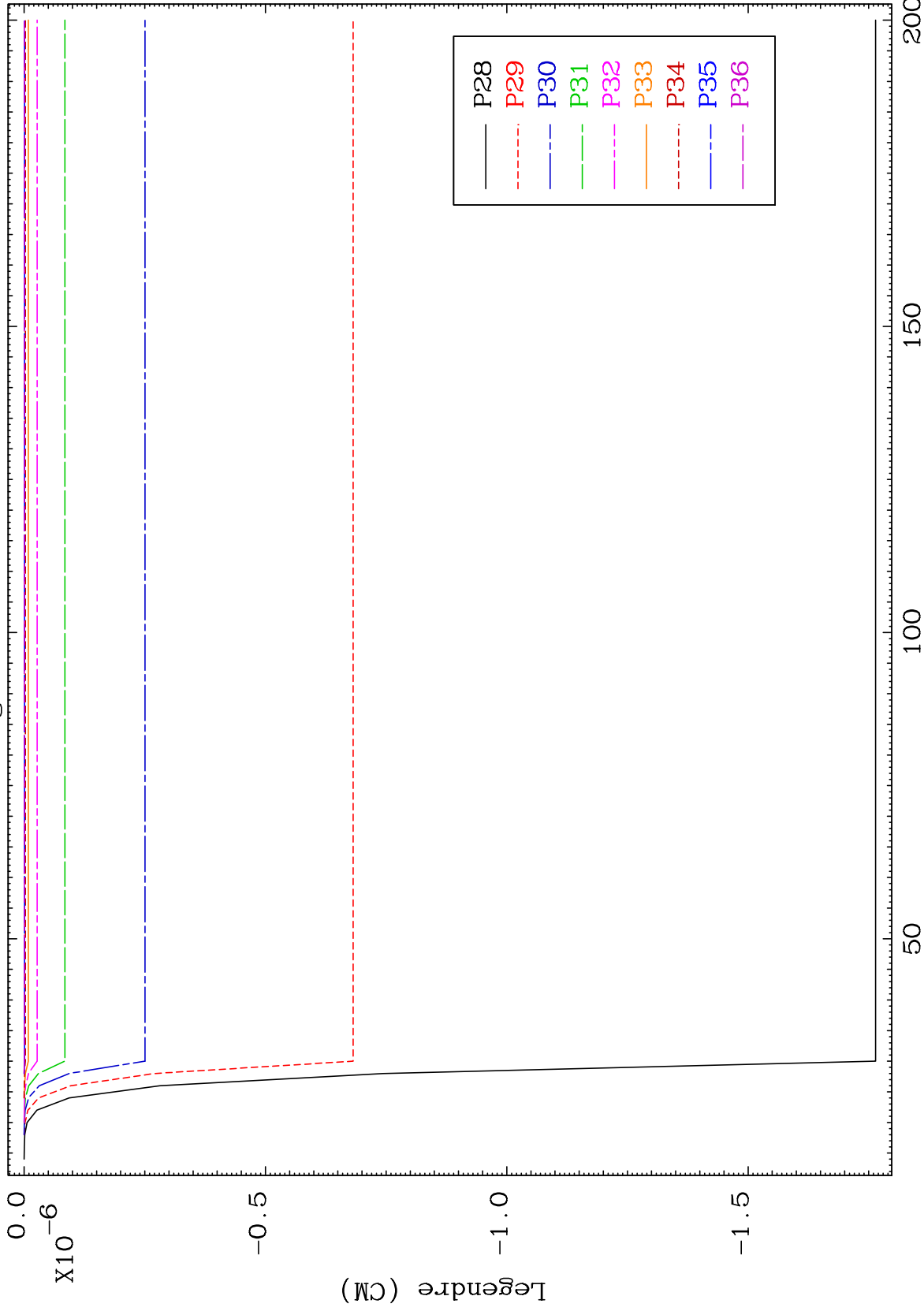
61-Pm-138



MAT 6122

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

61-Pm-138



61-Pm-138

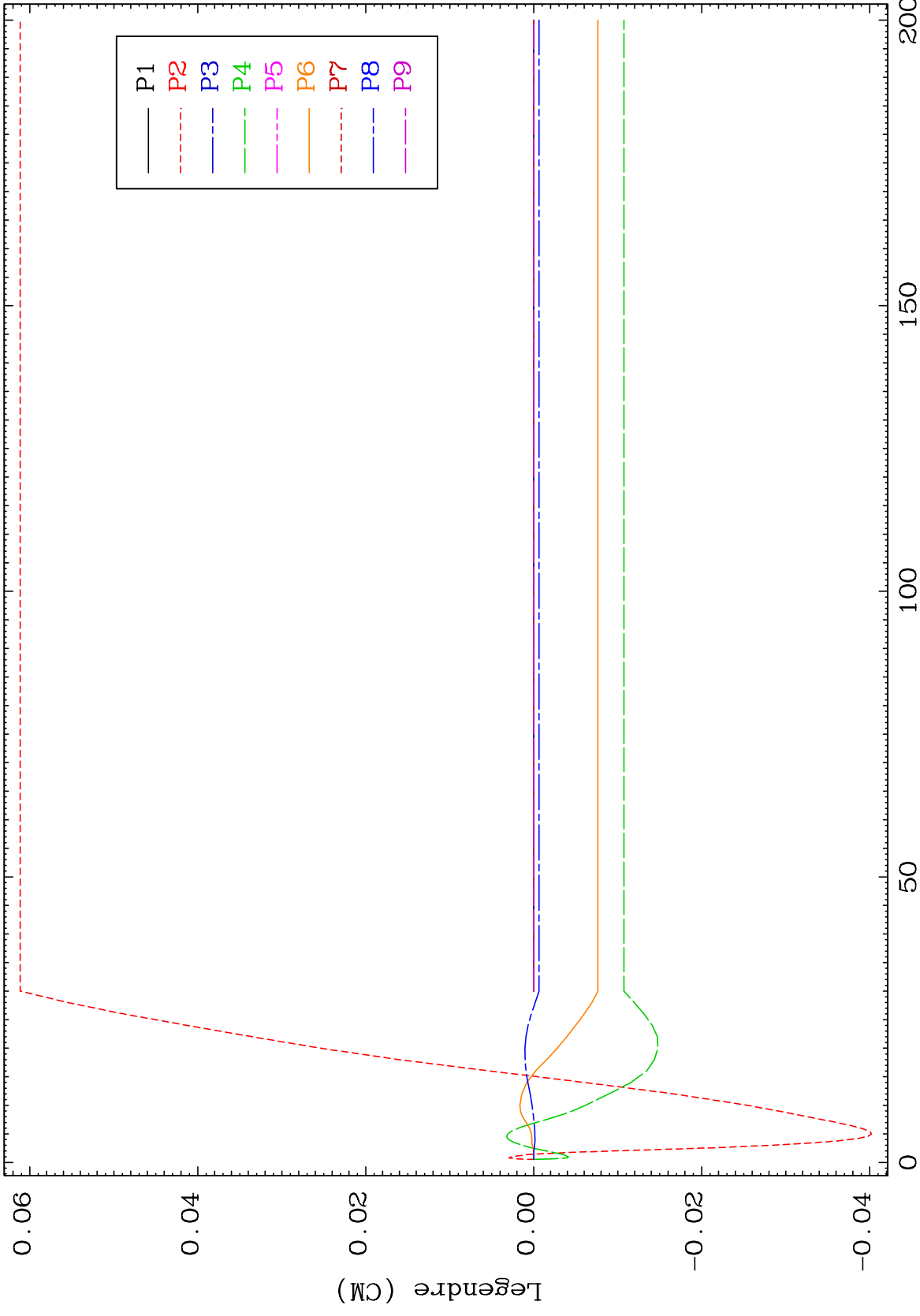
Incident Energy (MeV)

95

MAT 6122

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

61-Pm-138



96

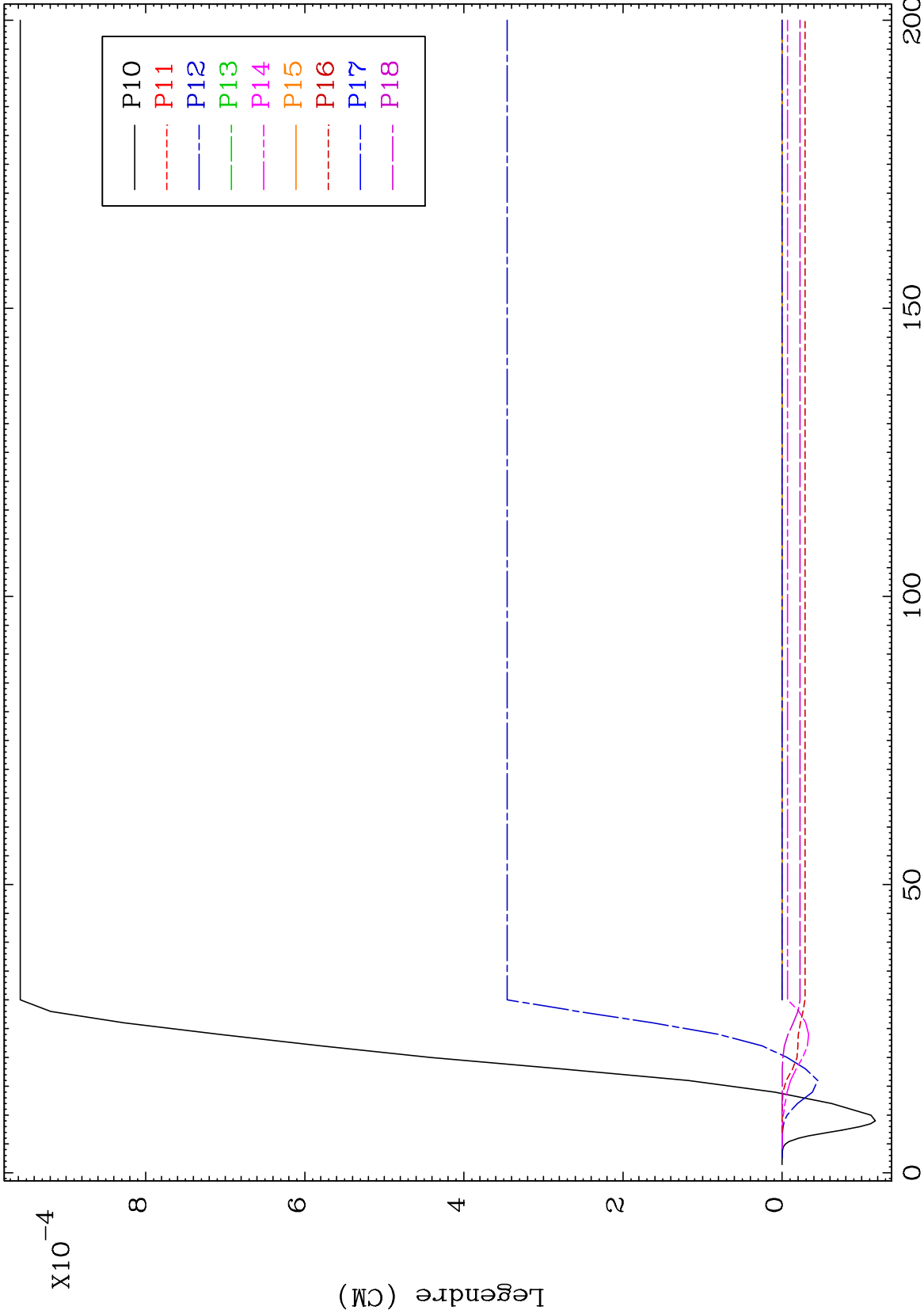
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



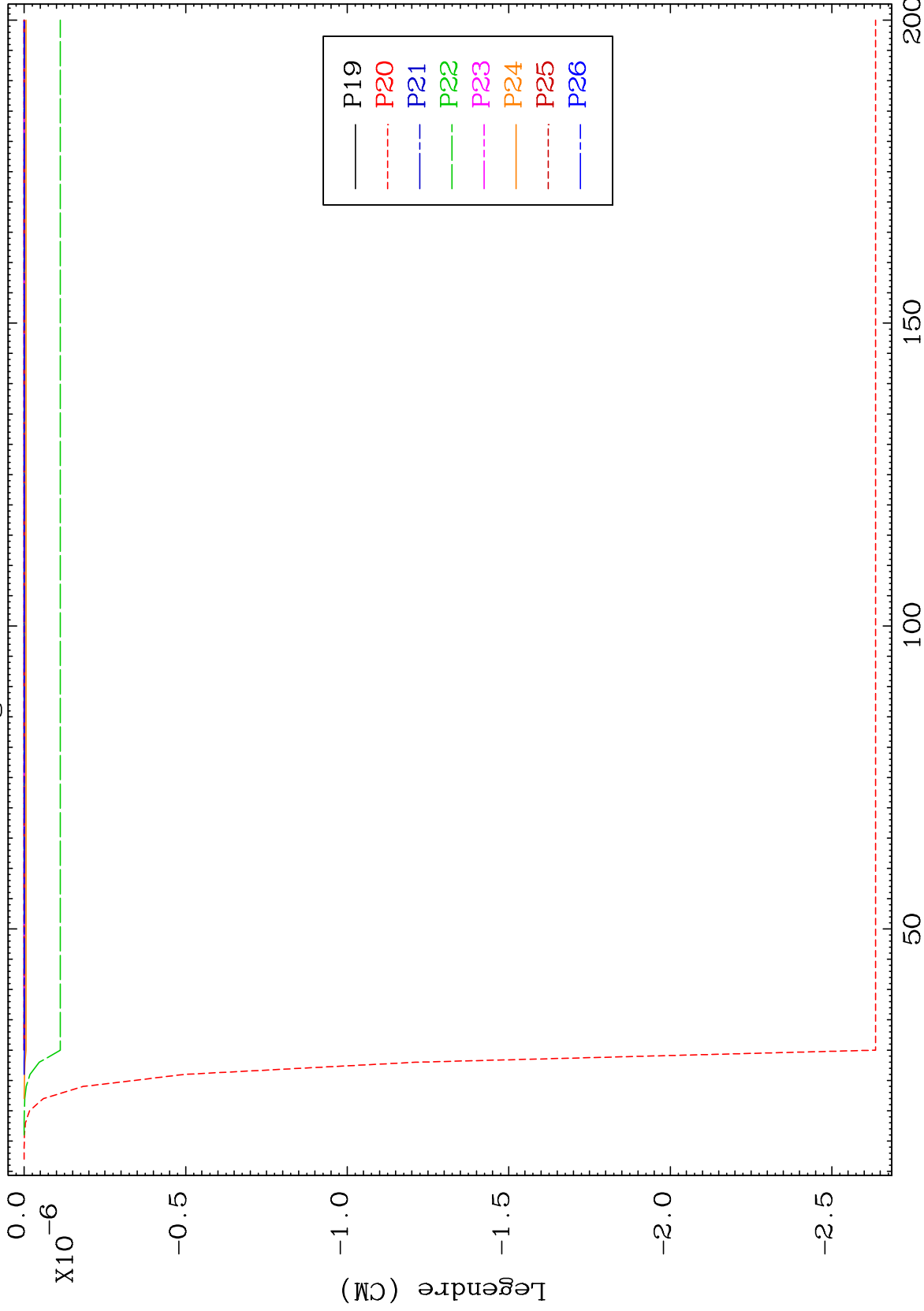
97

61-Pm-138

MAT 6122

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

61-Pm-138



98

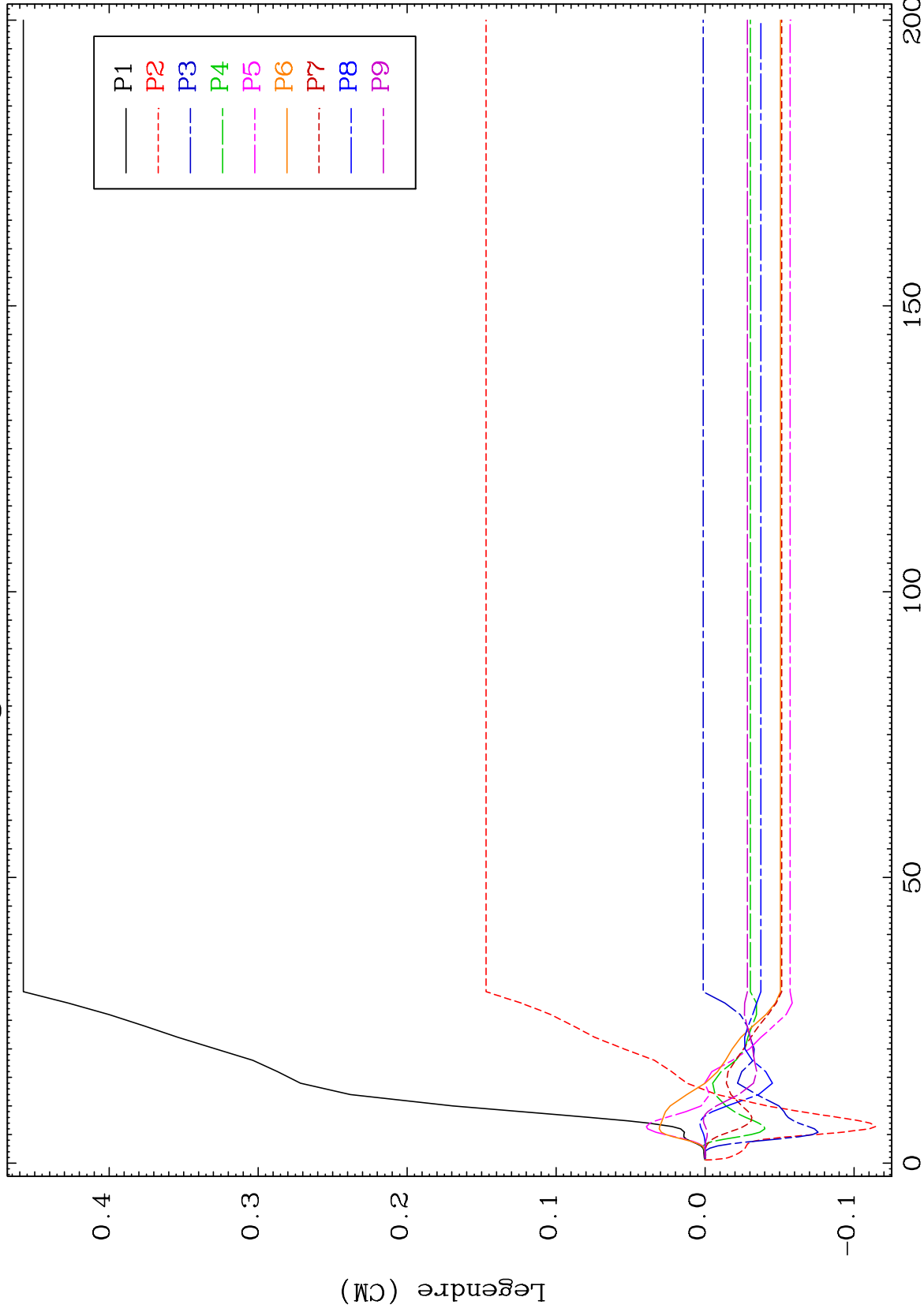
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



99

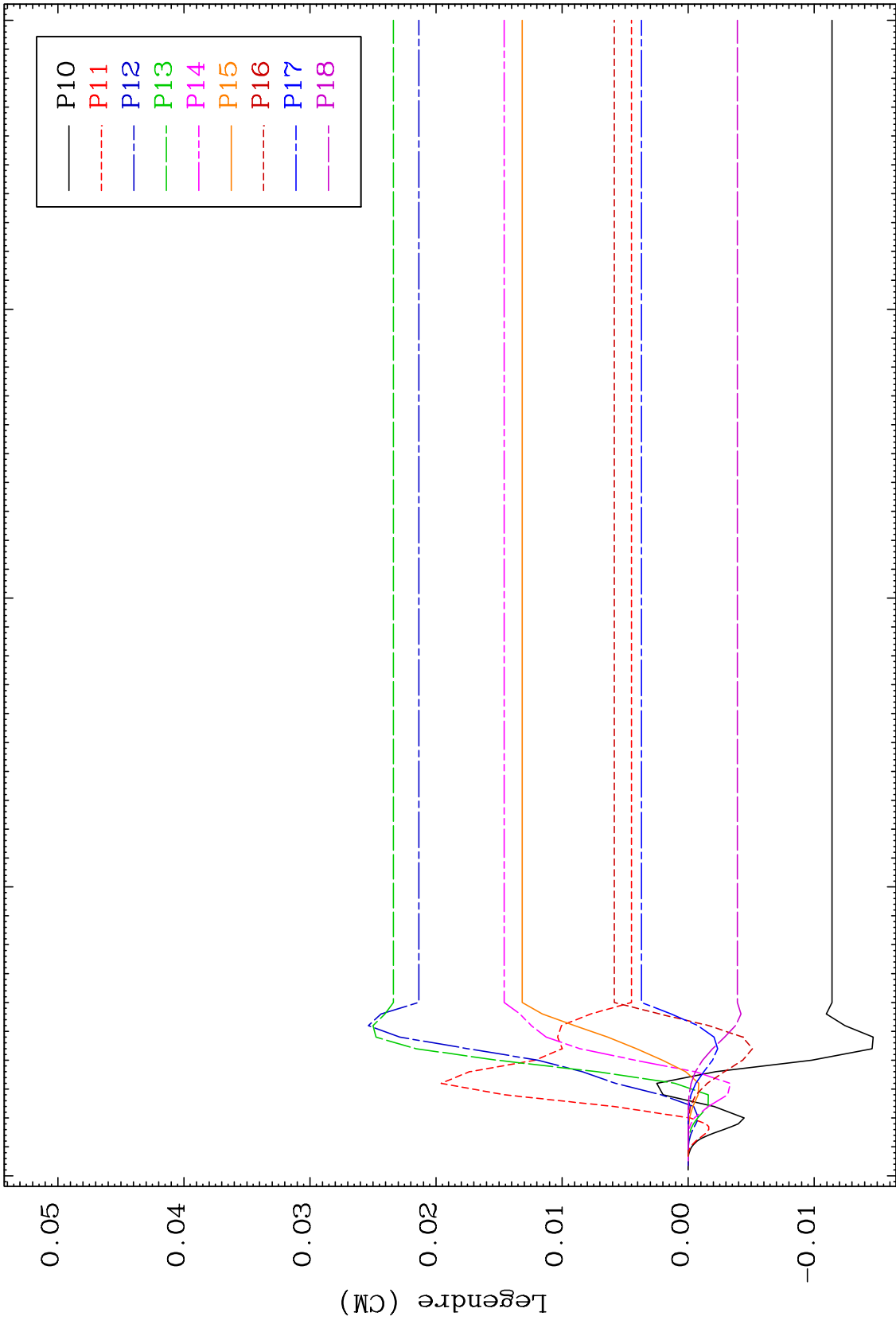
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

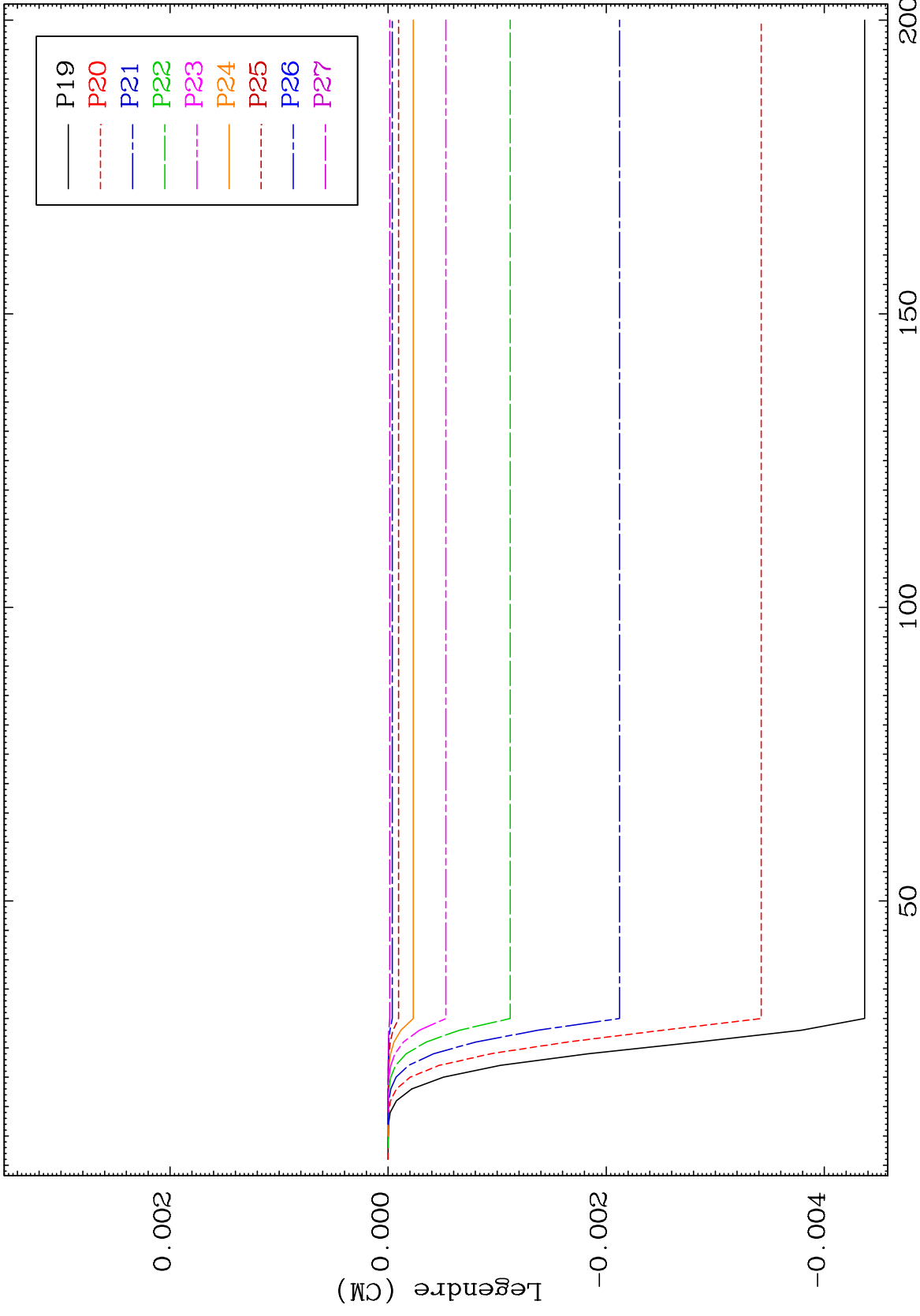
Incident Energy (MeV)

Legendre (CM)

MAT 6122

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

61-Pm-138



101

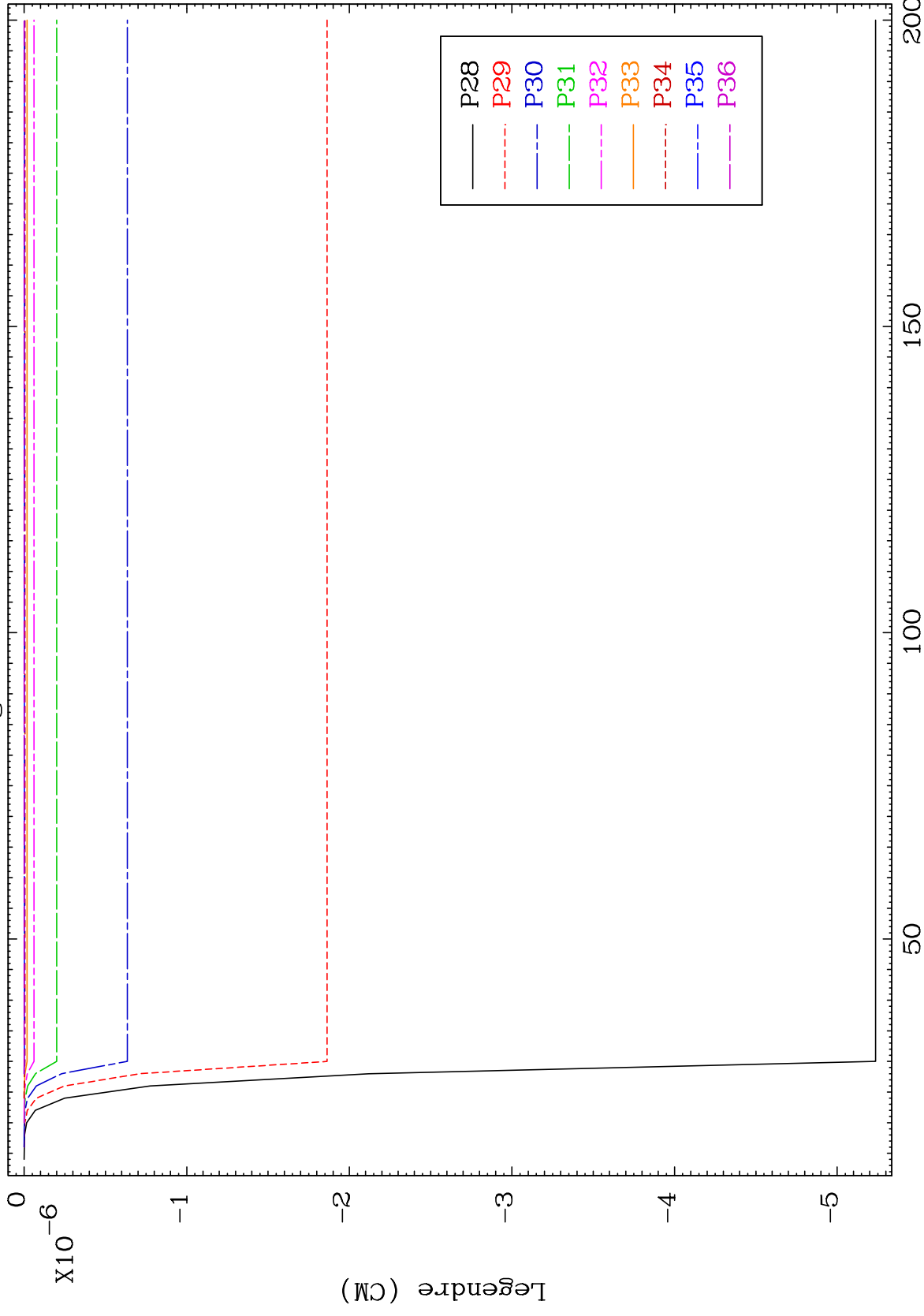
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

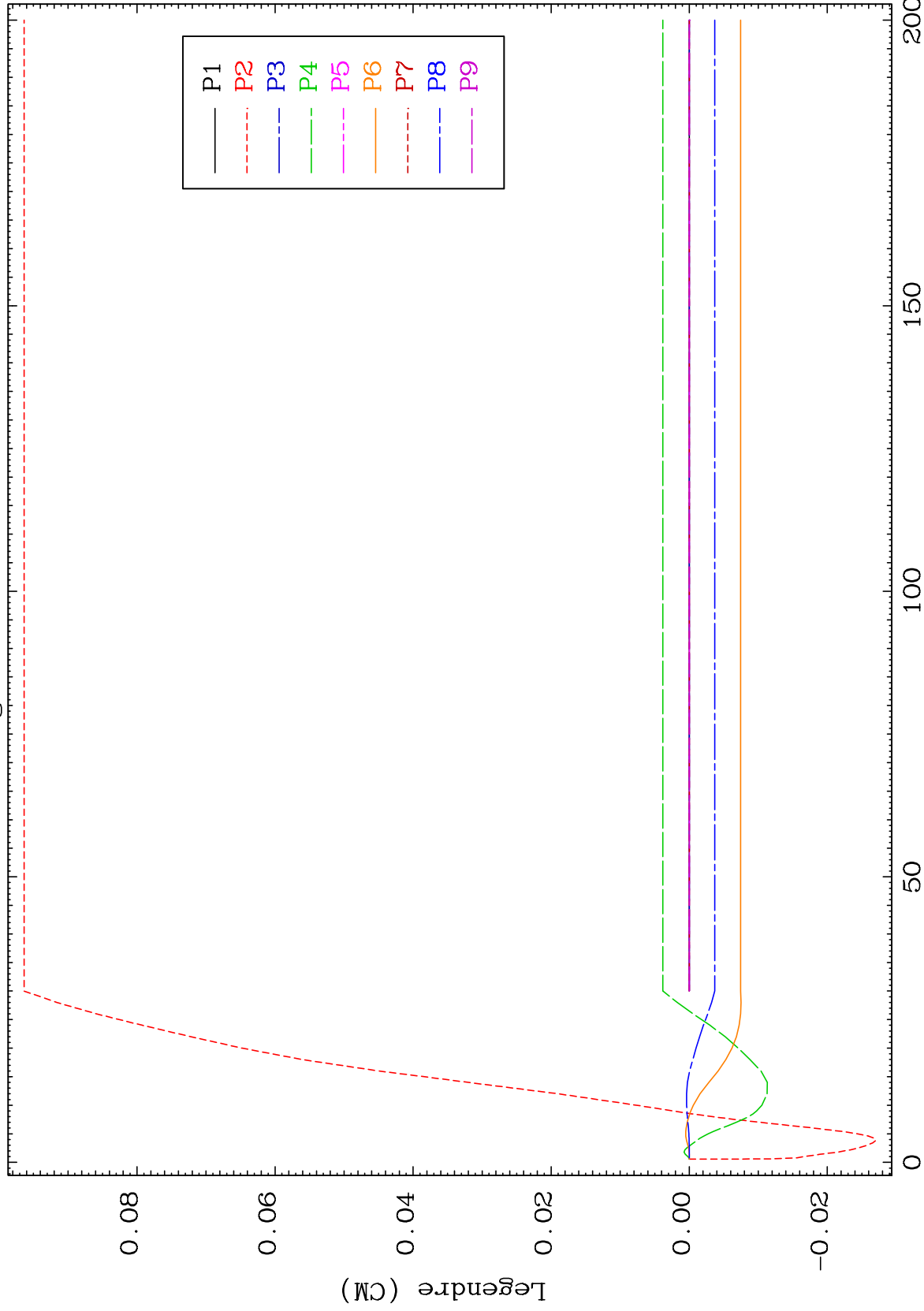
Incident Energy (MeV)

102

MAT 6122

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

61-Pm-138



61-Pm-138

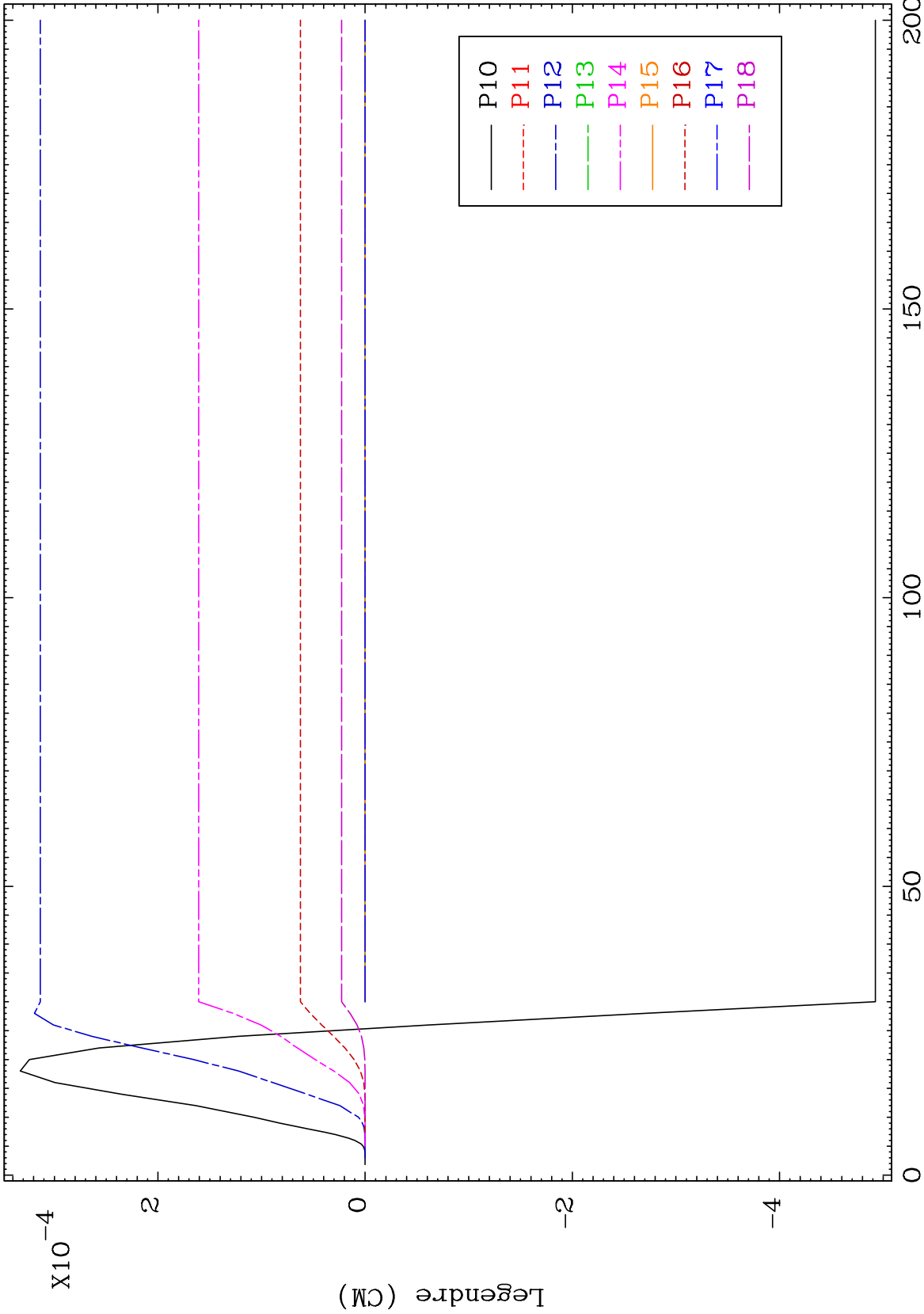
Incident Energy (MeV)

103

MAT 6122

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

61-Pm-138



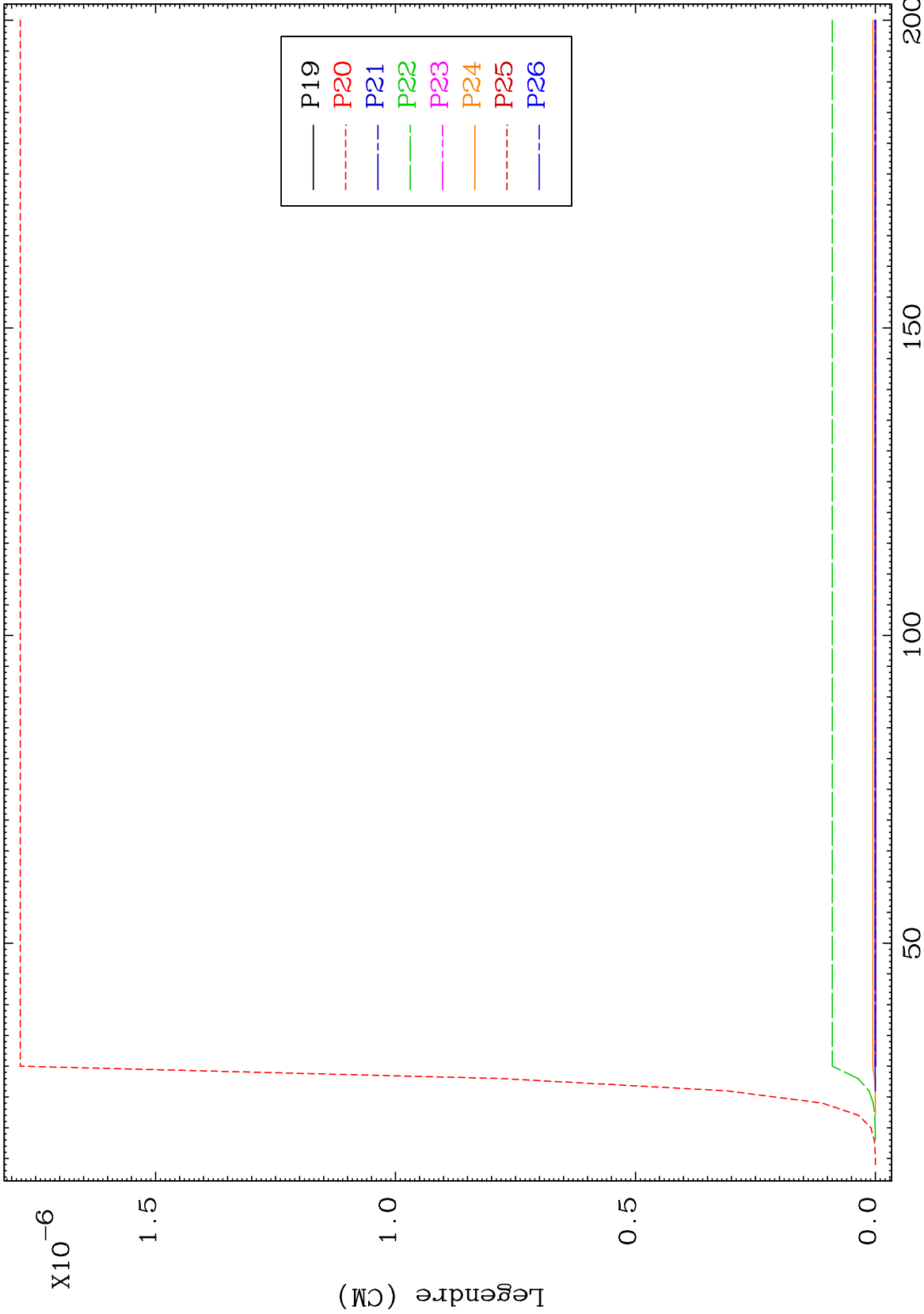
104

61-Pm-138

MAT 6122

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

61-Pm-138



105

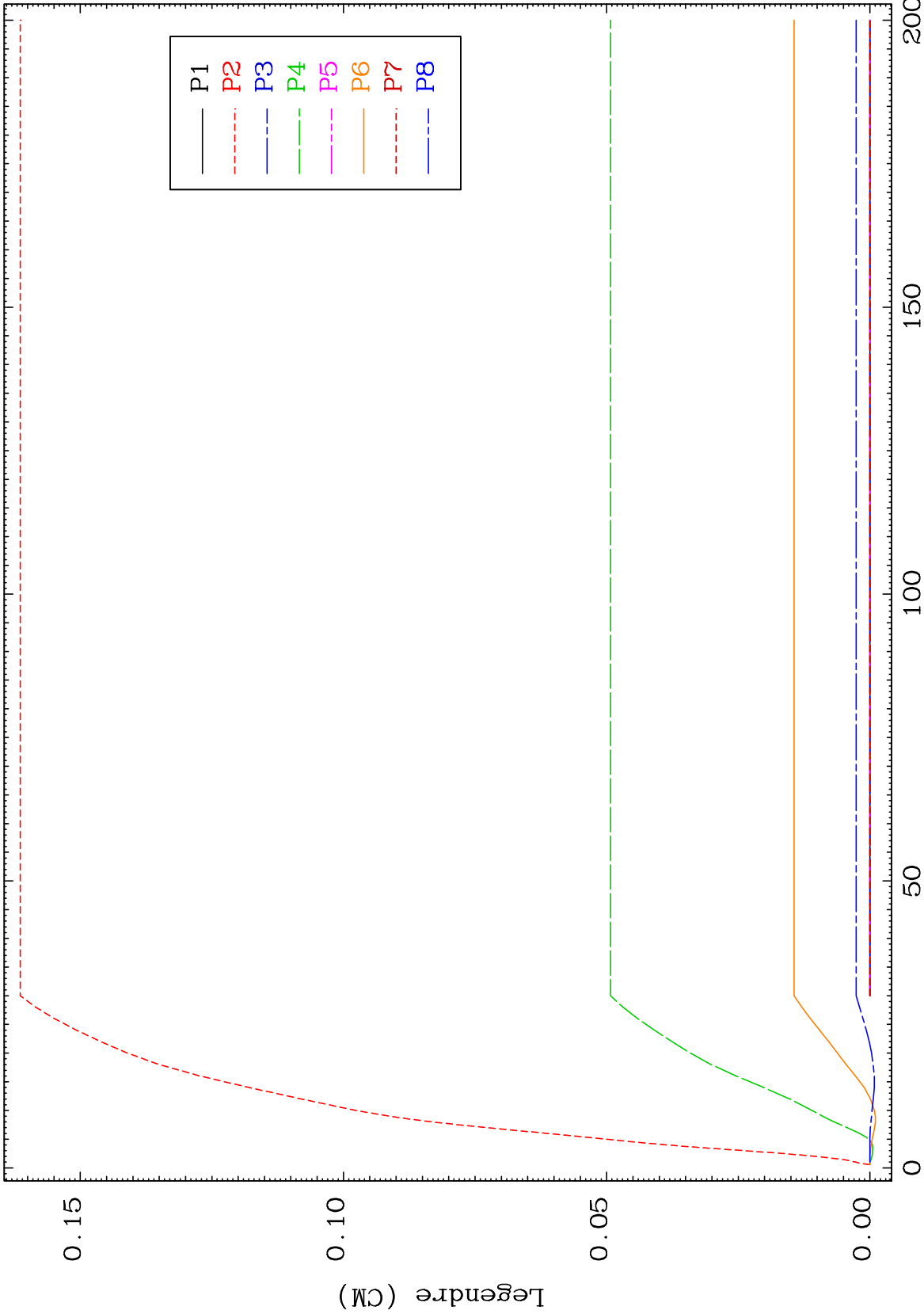
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138

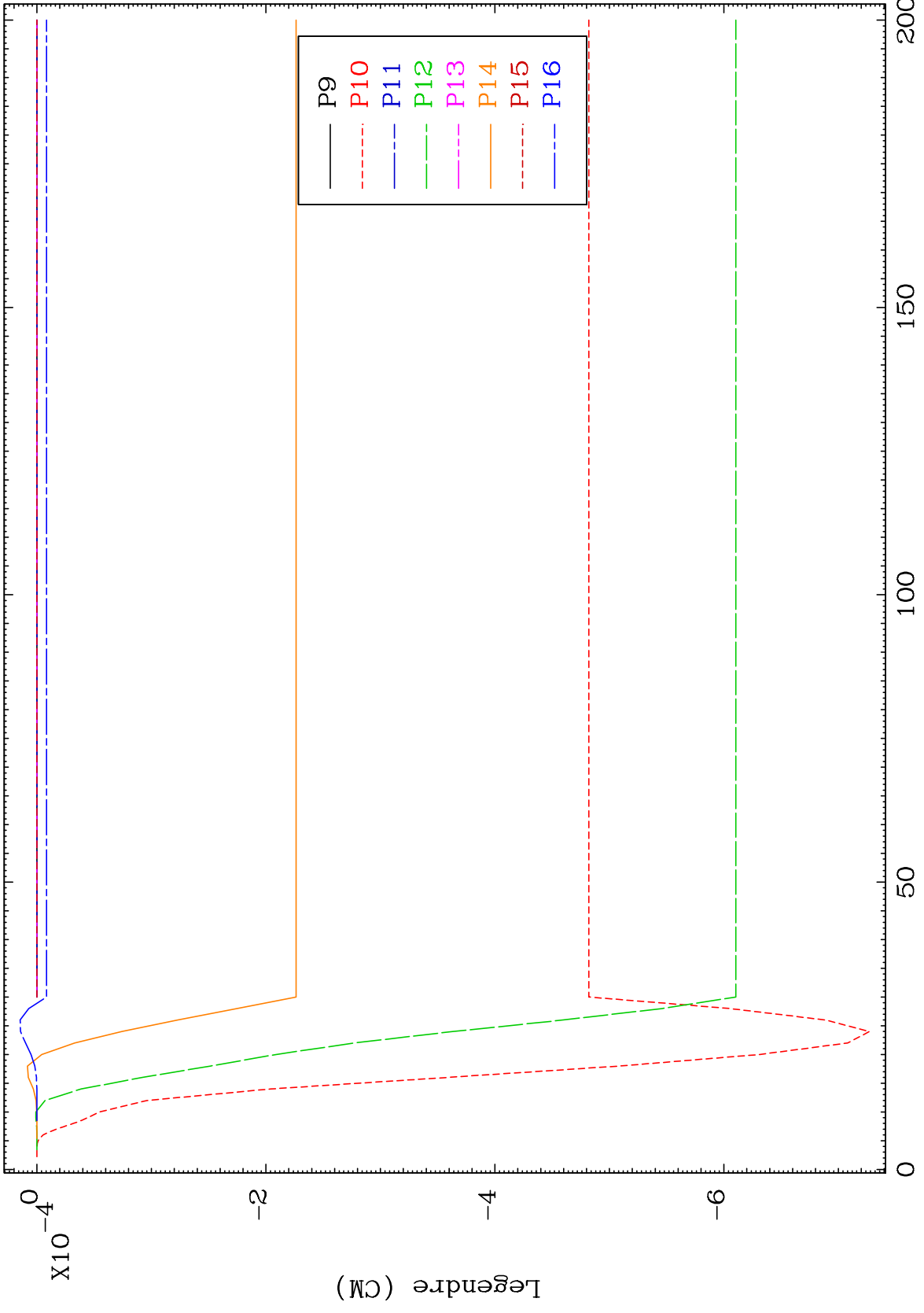


106

Incident Energy (MeV)

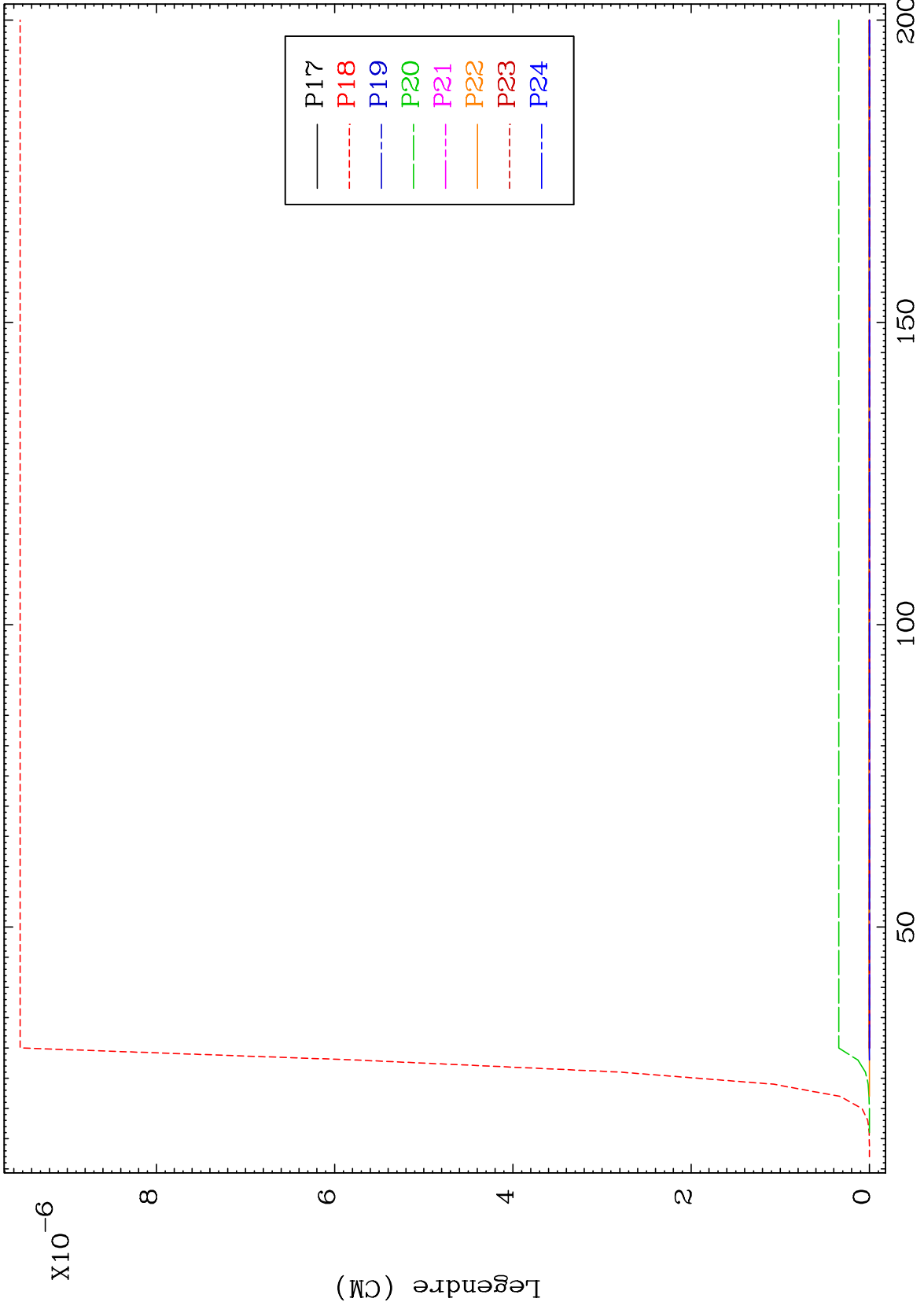
61-Pm-138

MAT 6122 MT= 75 (n,n') Level Legendre Coefficients 61-Pm-138



107 61-Pm-138

MAT 6122 MT= 75 (n,n') Level Legendre Coefficients 61-Pm-138

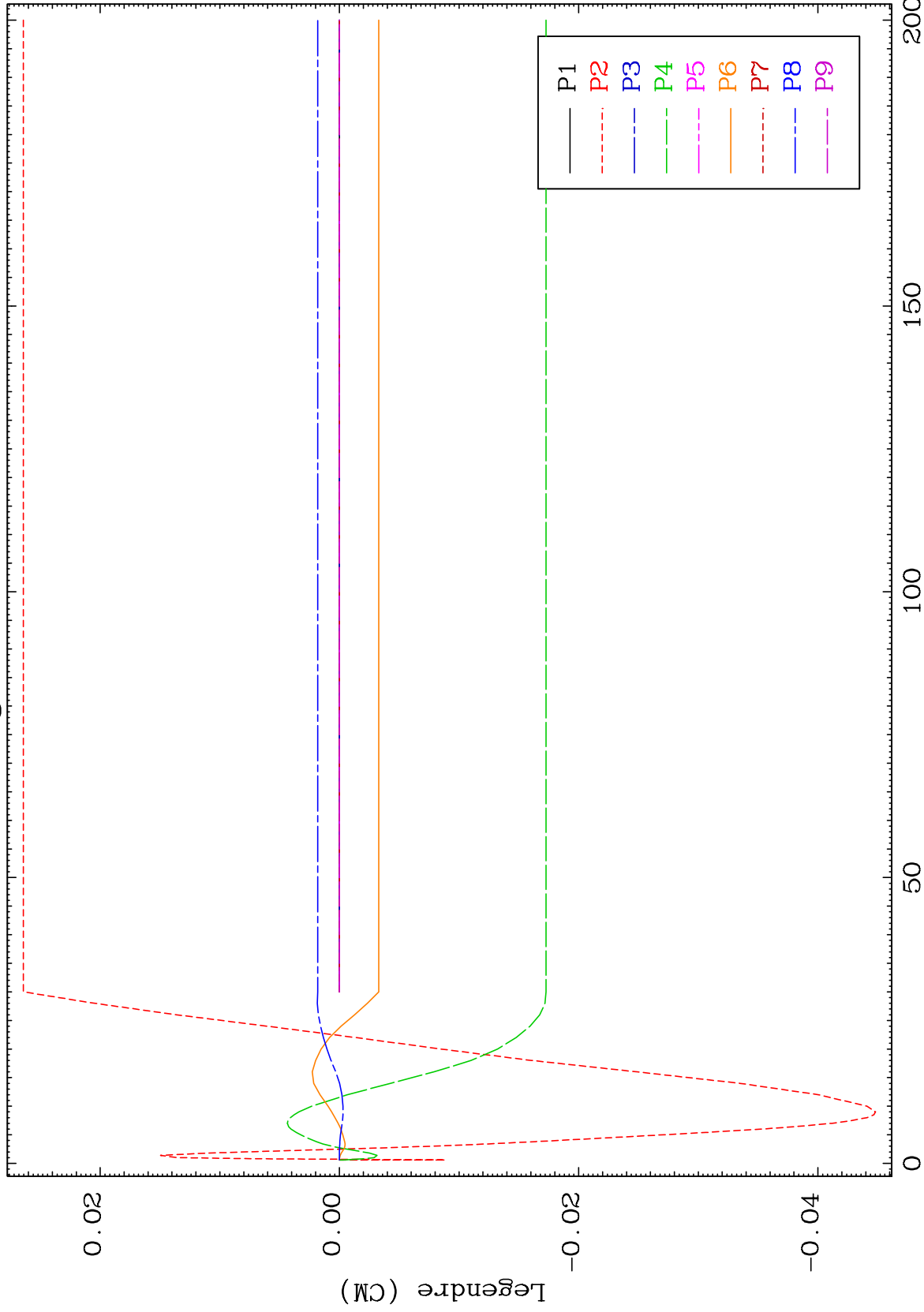


108 Incident Energy (MeV) 61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

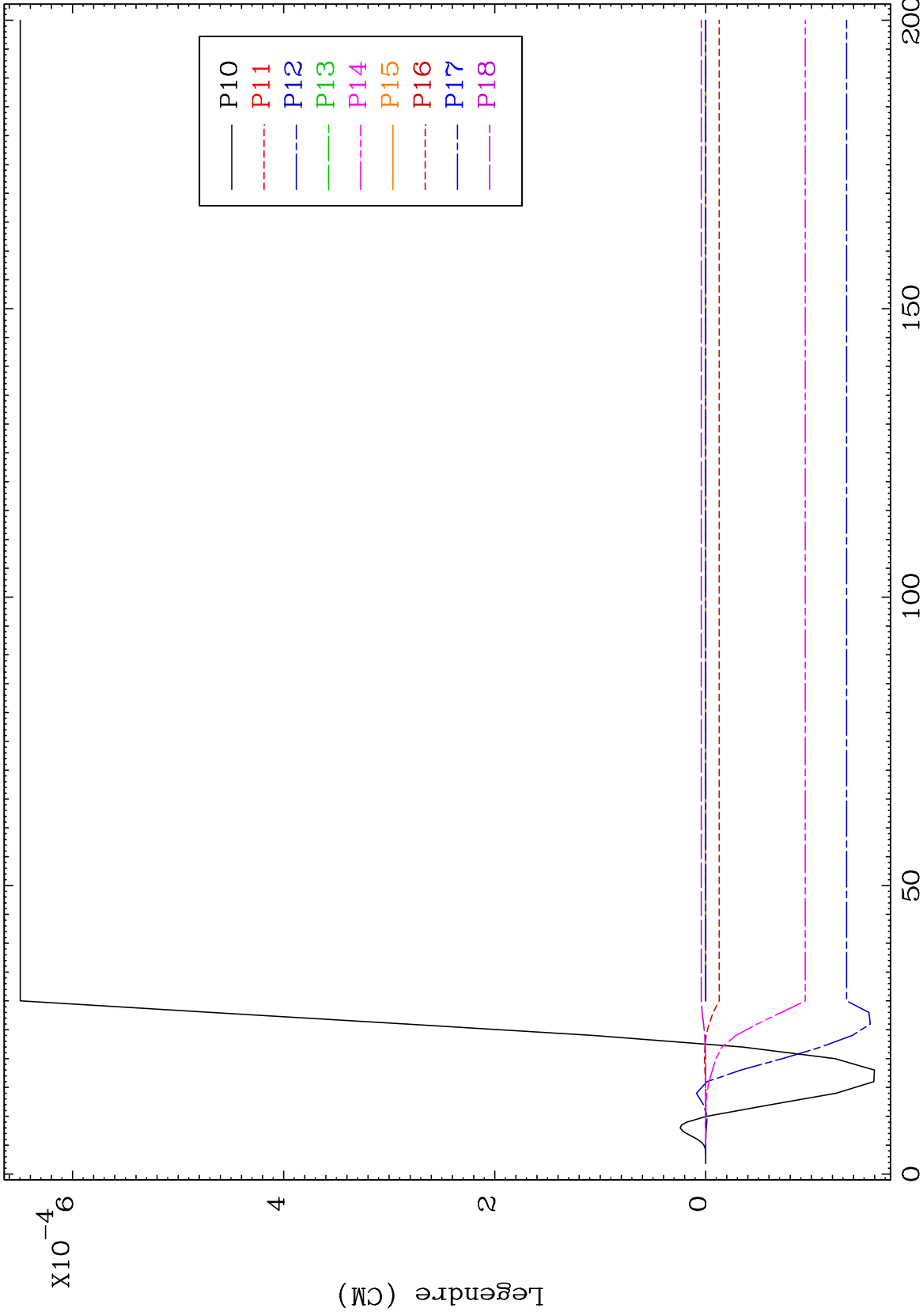
Incident Energy (MeV)

109

MAT 6122

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

61-Pm-138



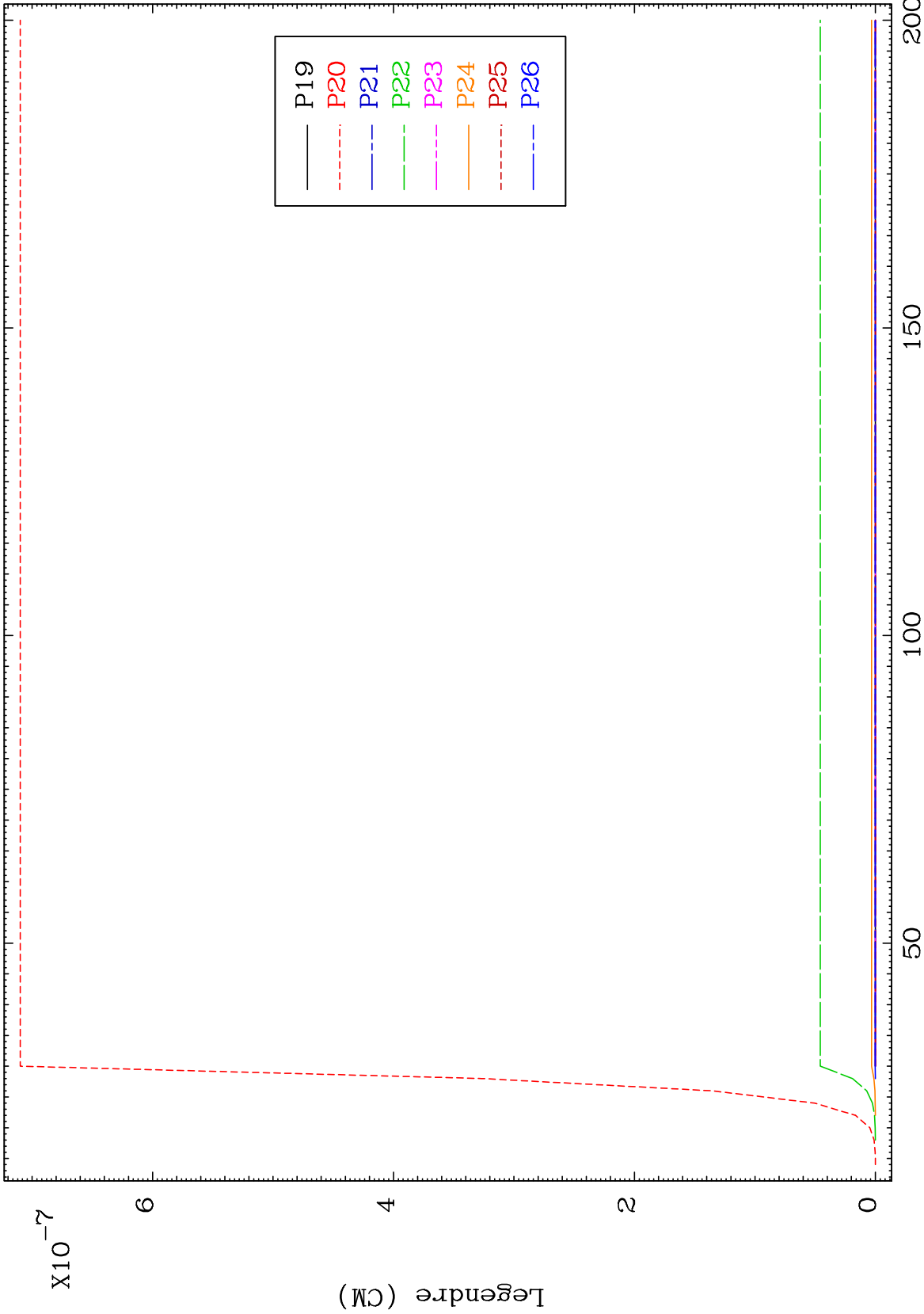
110

61-Pm-138

MAT 6122

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

61-Pm-138

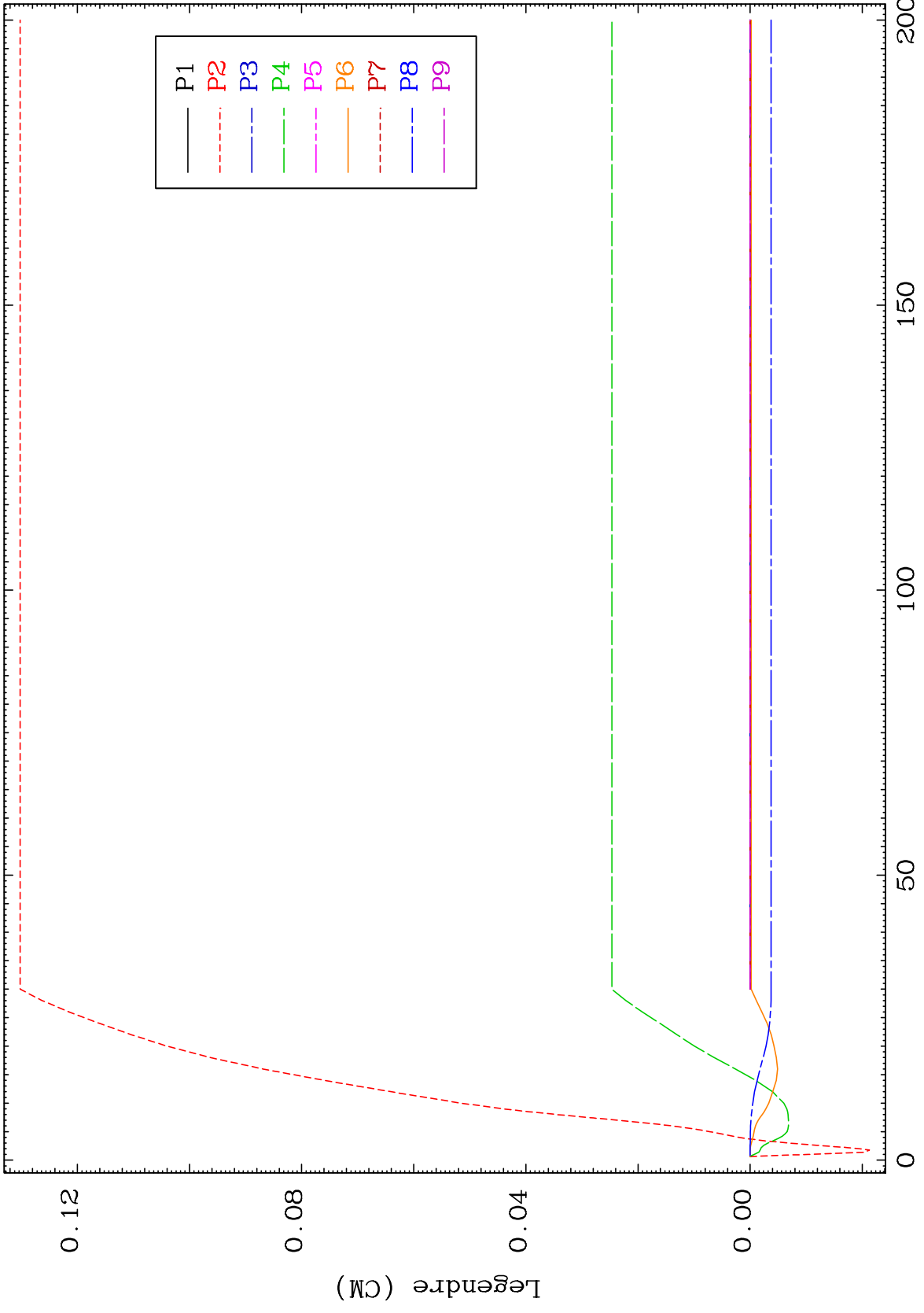


111

Incident Energy (MeV)

61-Pm-138

MAT 6122 MT= 77 (n,n') Level Legendre Coefficients 61-Pm-138

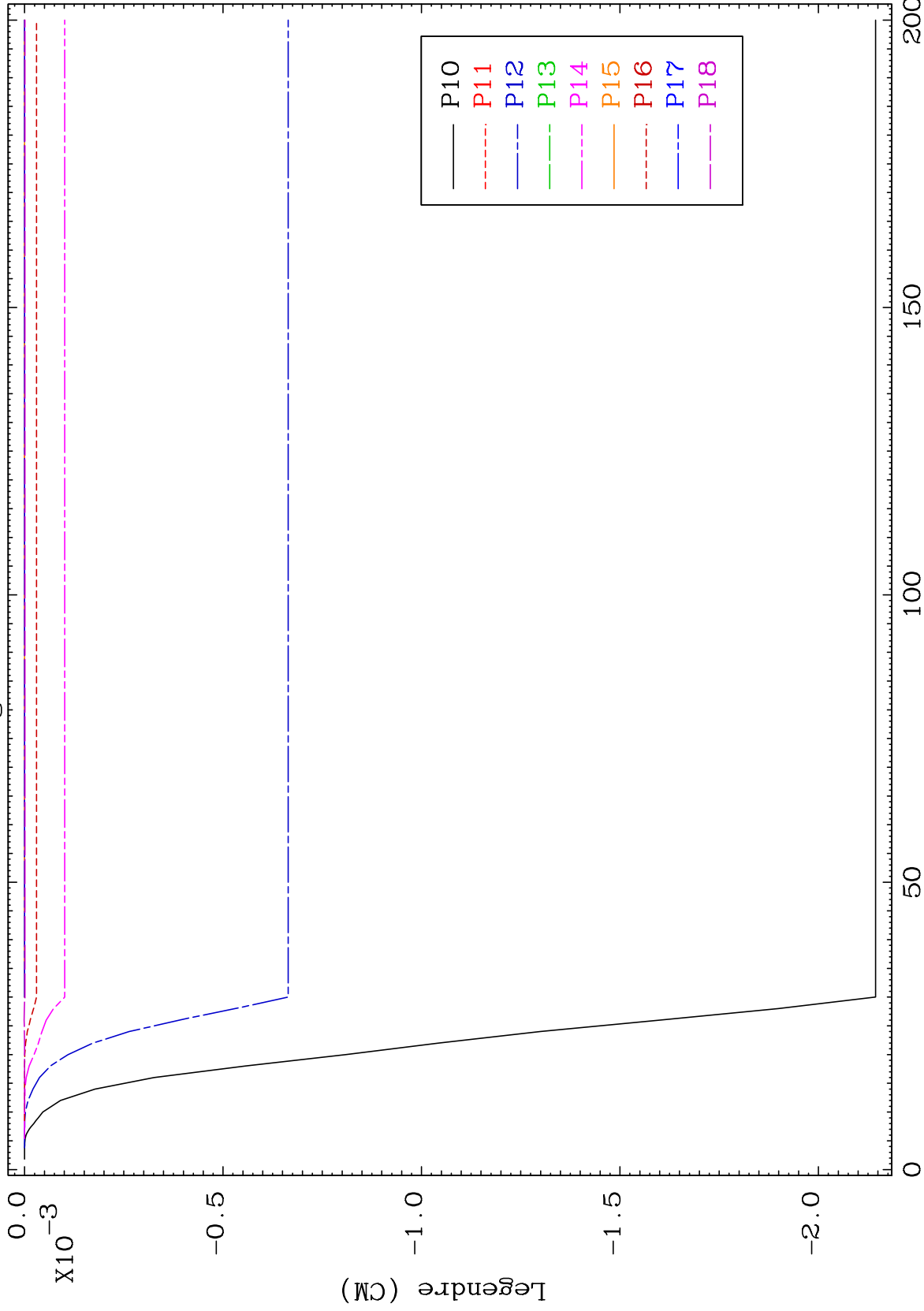


112 61-Pm-138

MAT 6122

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

61-Pm-138



113

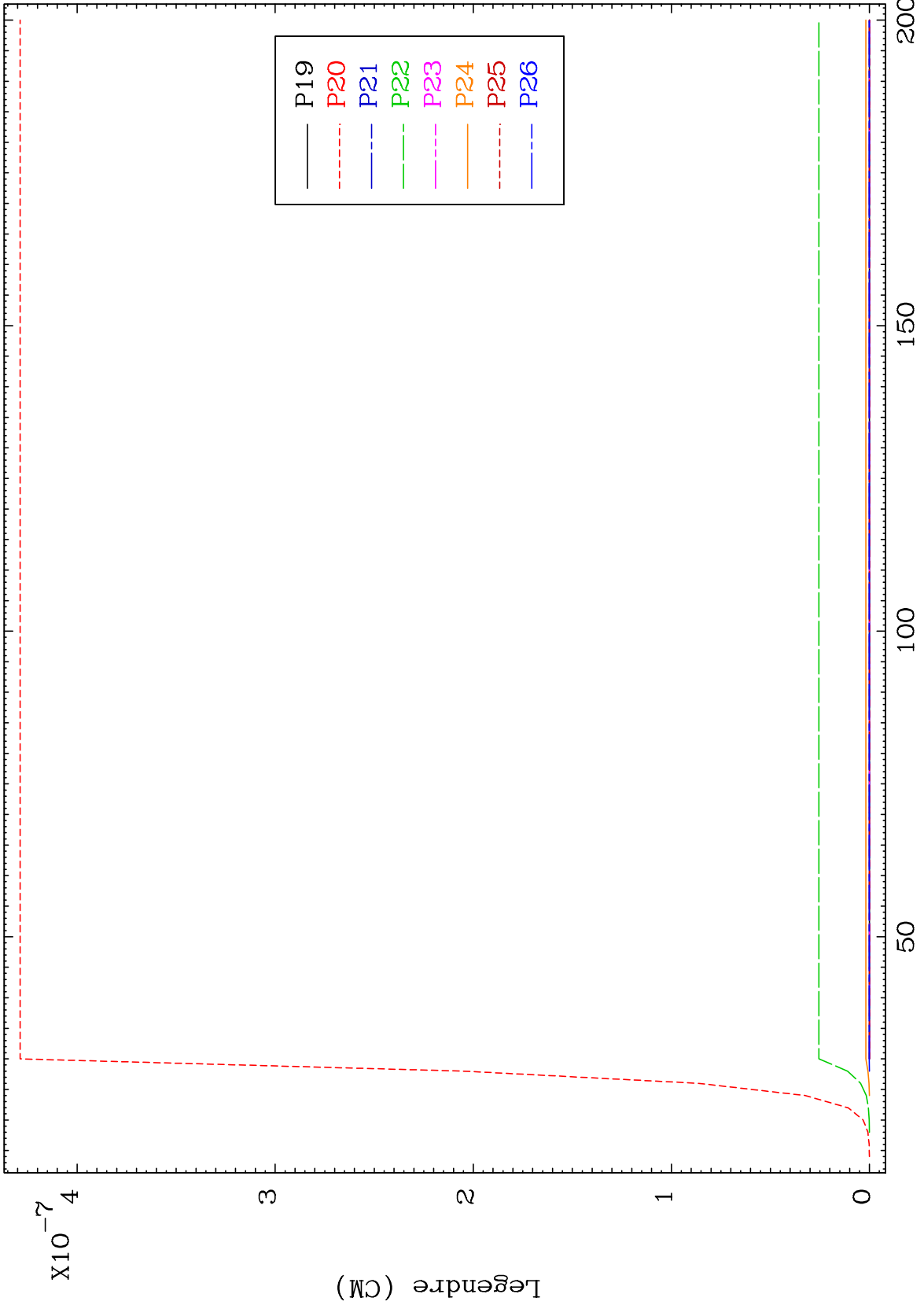
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



114

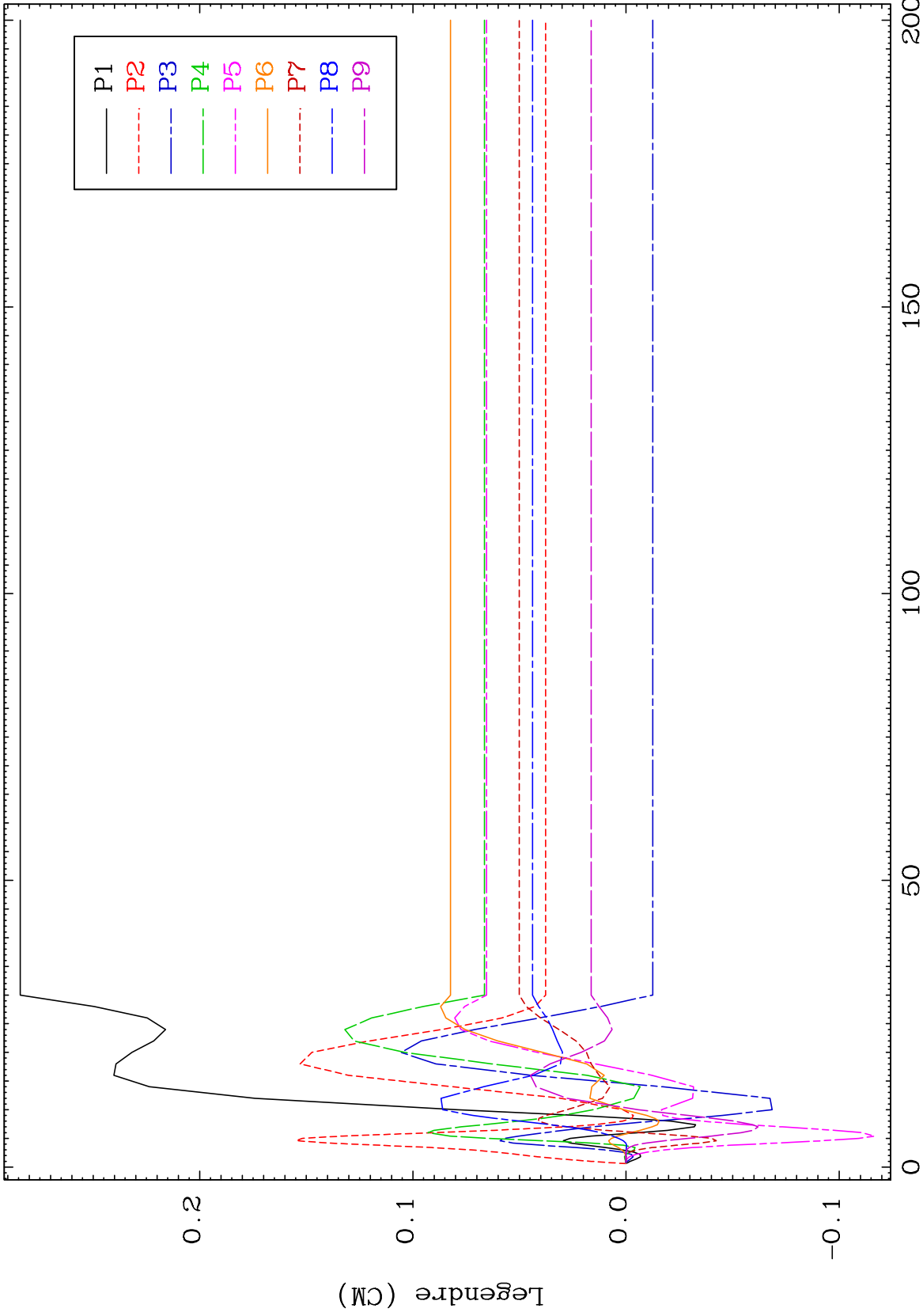
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

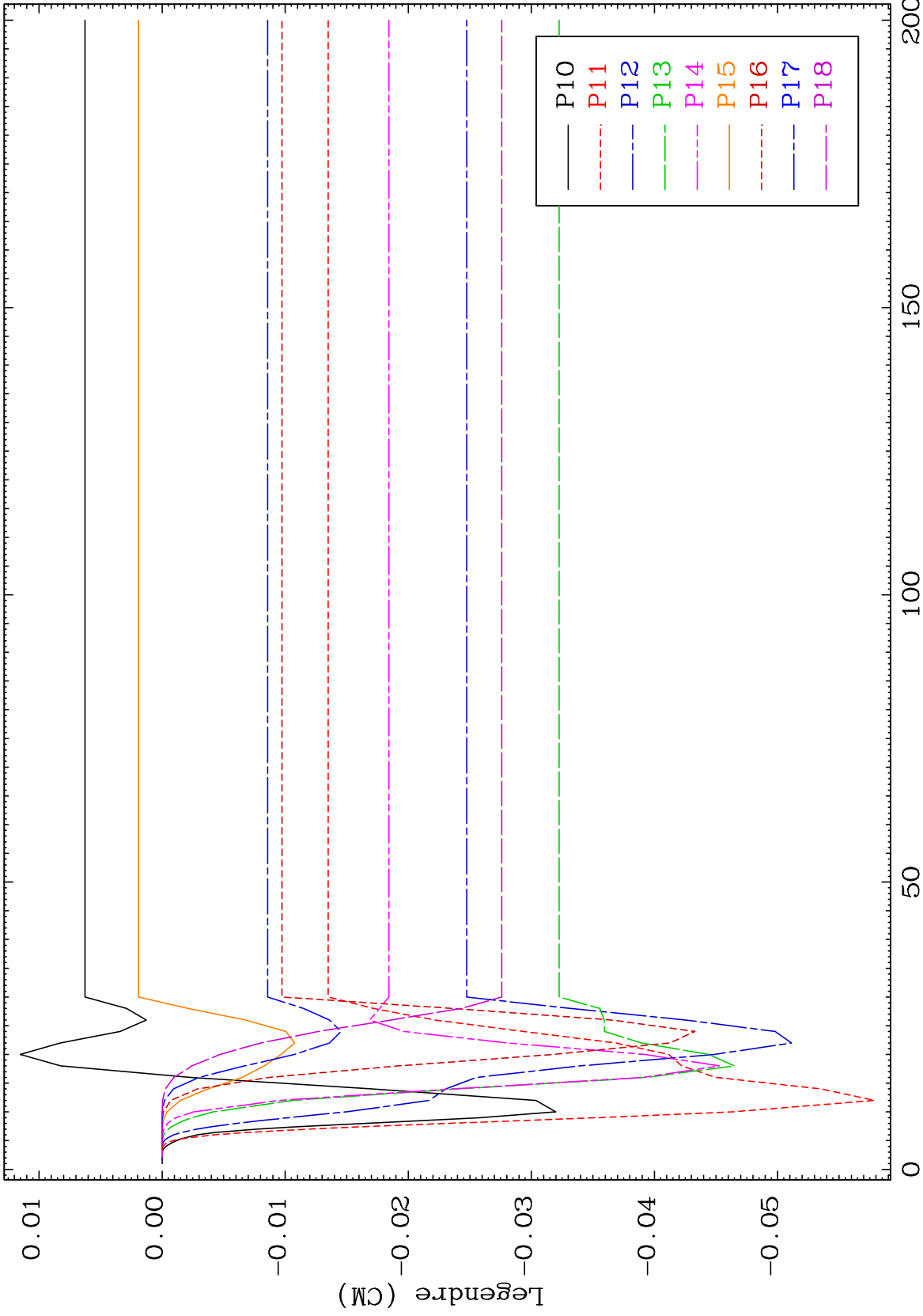
Incident Energy (MeV)

115

MAT 6122

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

61-Pm-138

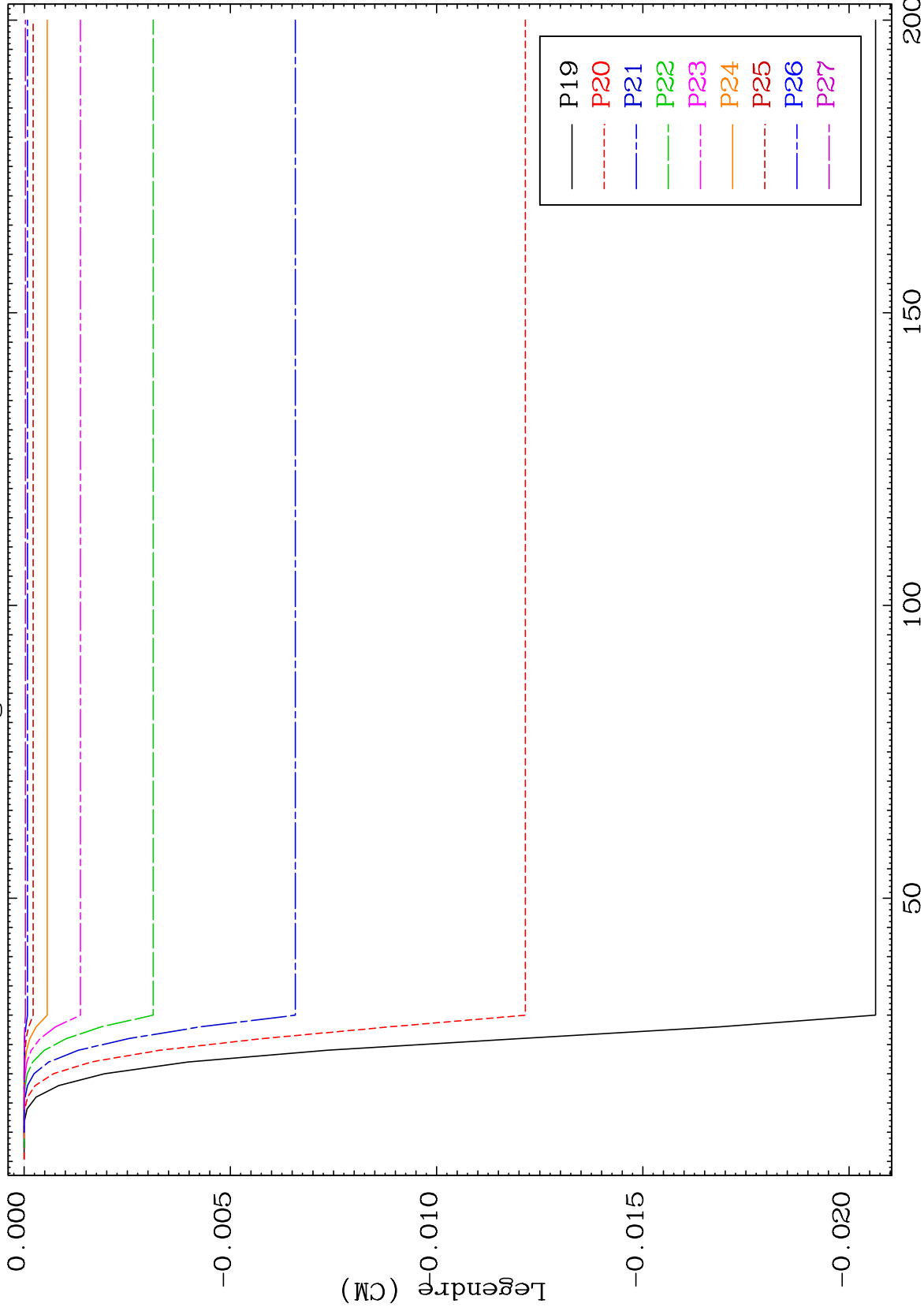


116

Incident Energy (MeV)

61-Pm-138

MAT 6122 MT= 78 (n,n') Level Legendre Coefficients 61-Pm-138

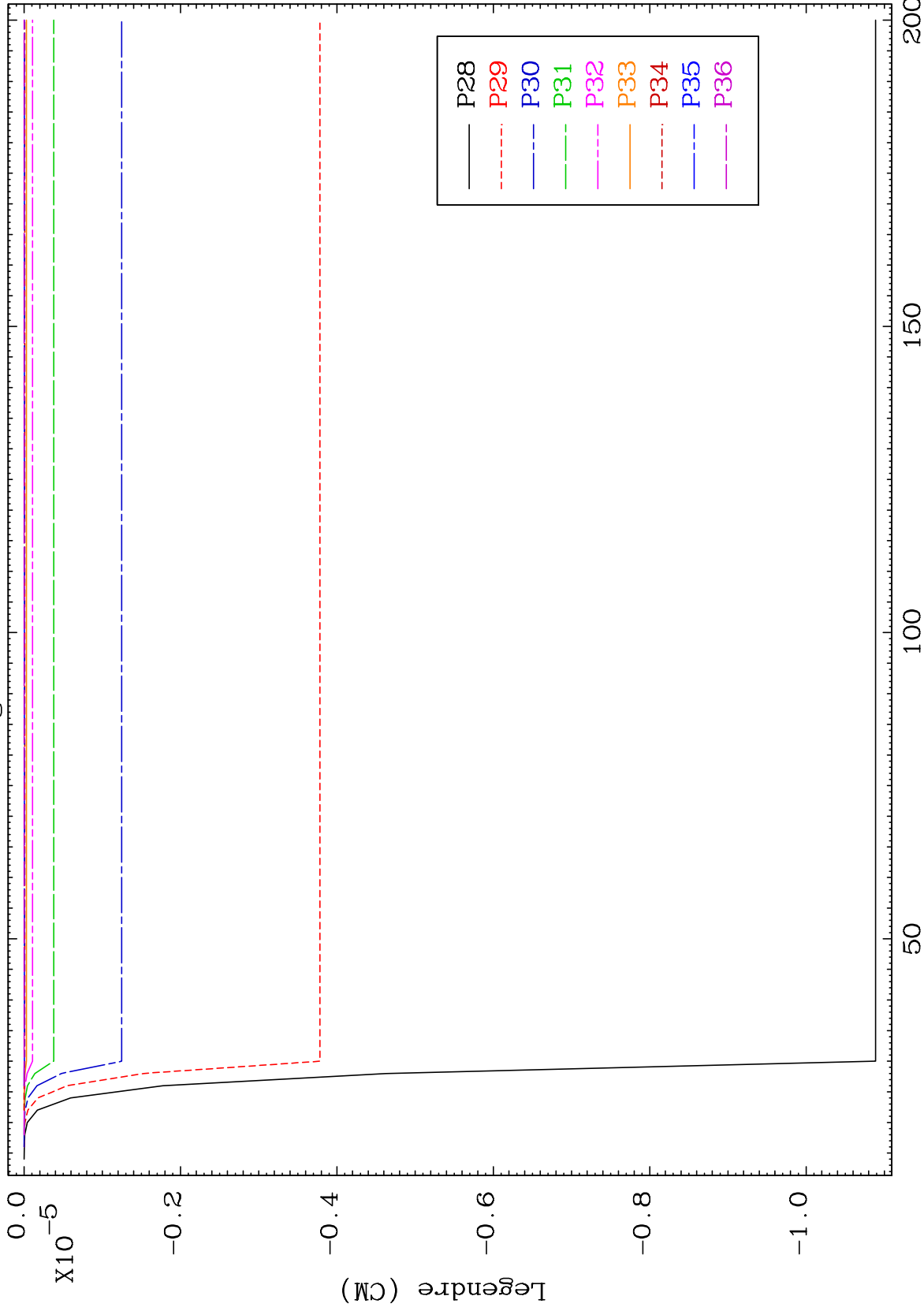


117 61-Pm-138

MAT 6122

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

61-Pm-138



118

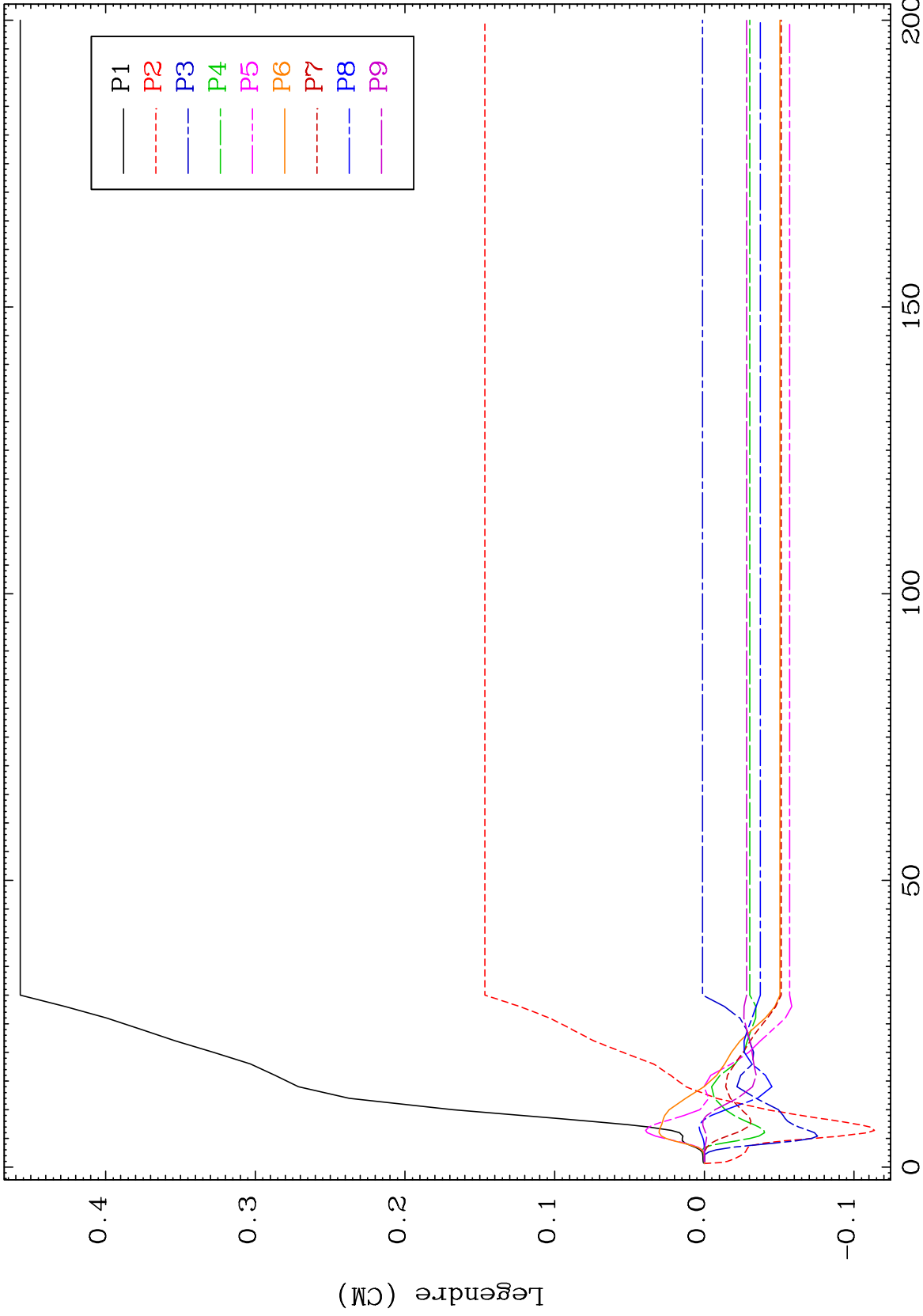
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



119

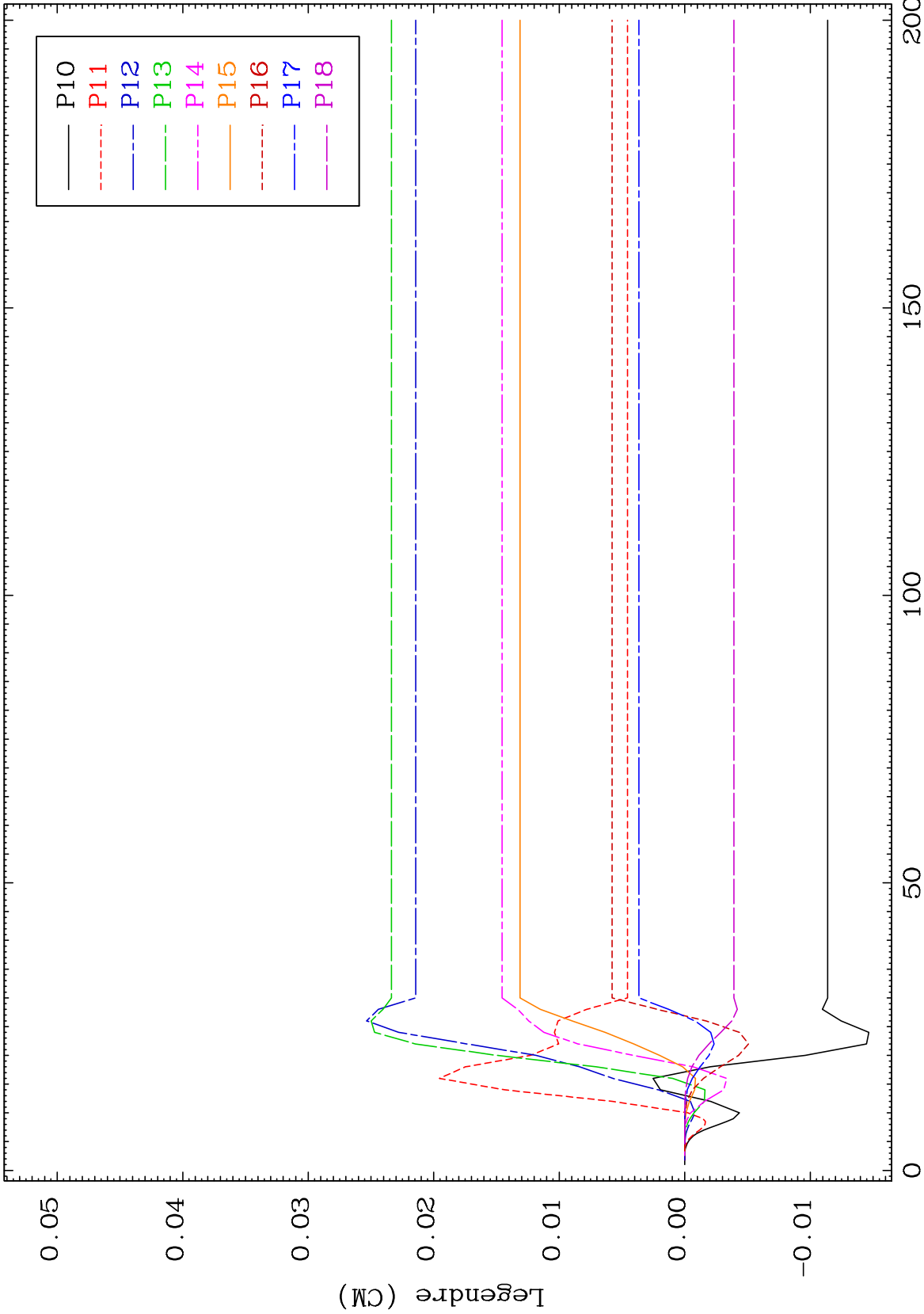
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



61-Pm-138

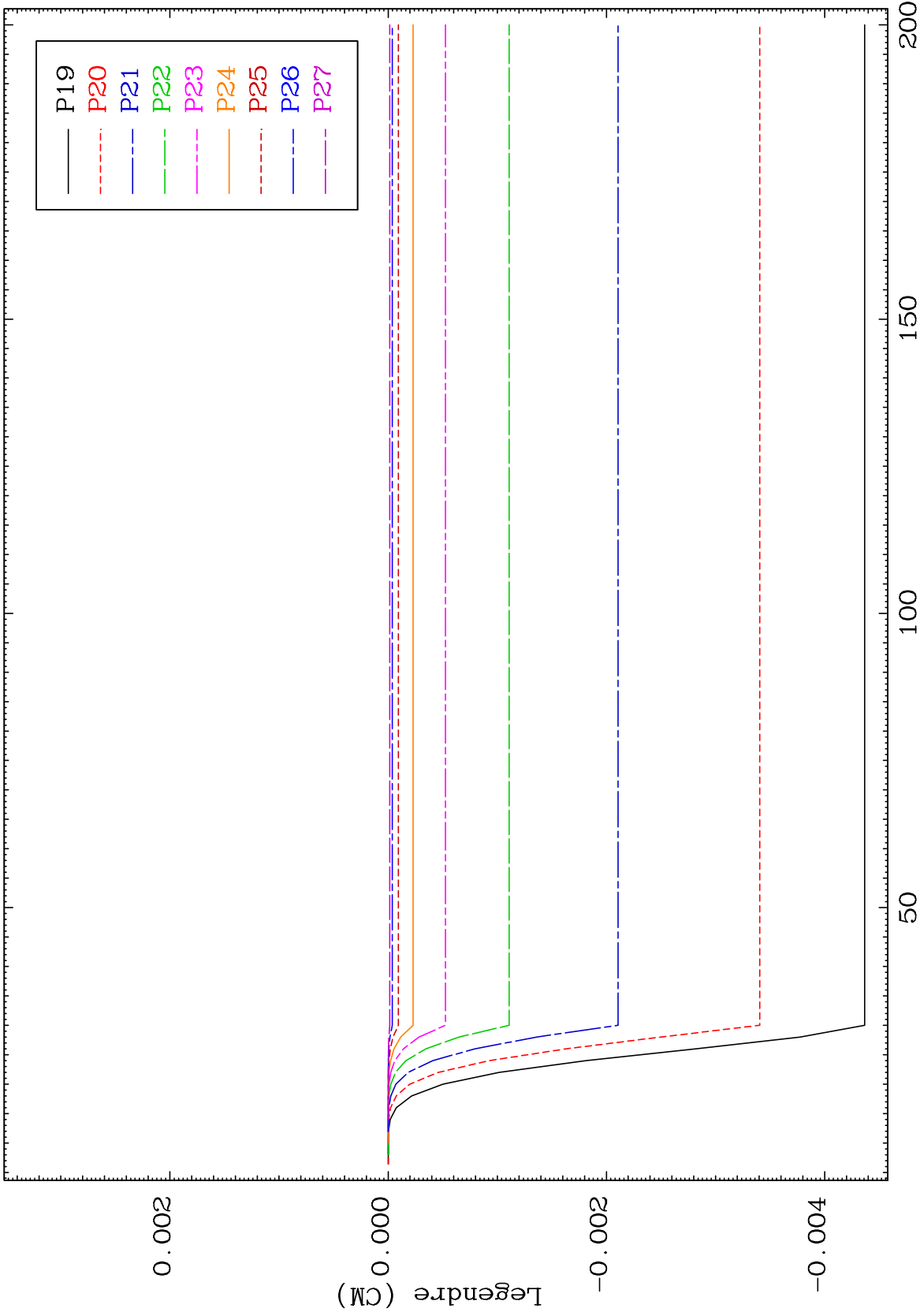
Incident Energy (MeV)

120

MAT 6122

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

61-Pm-138



121

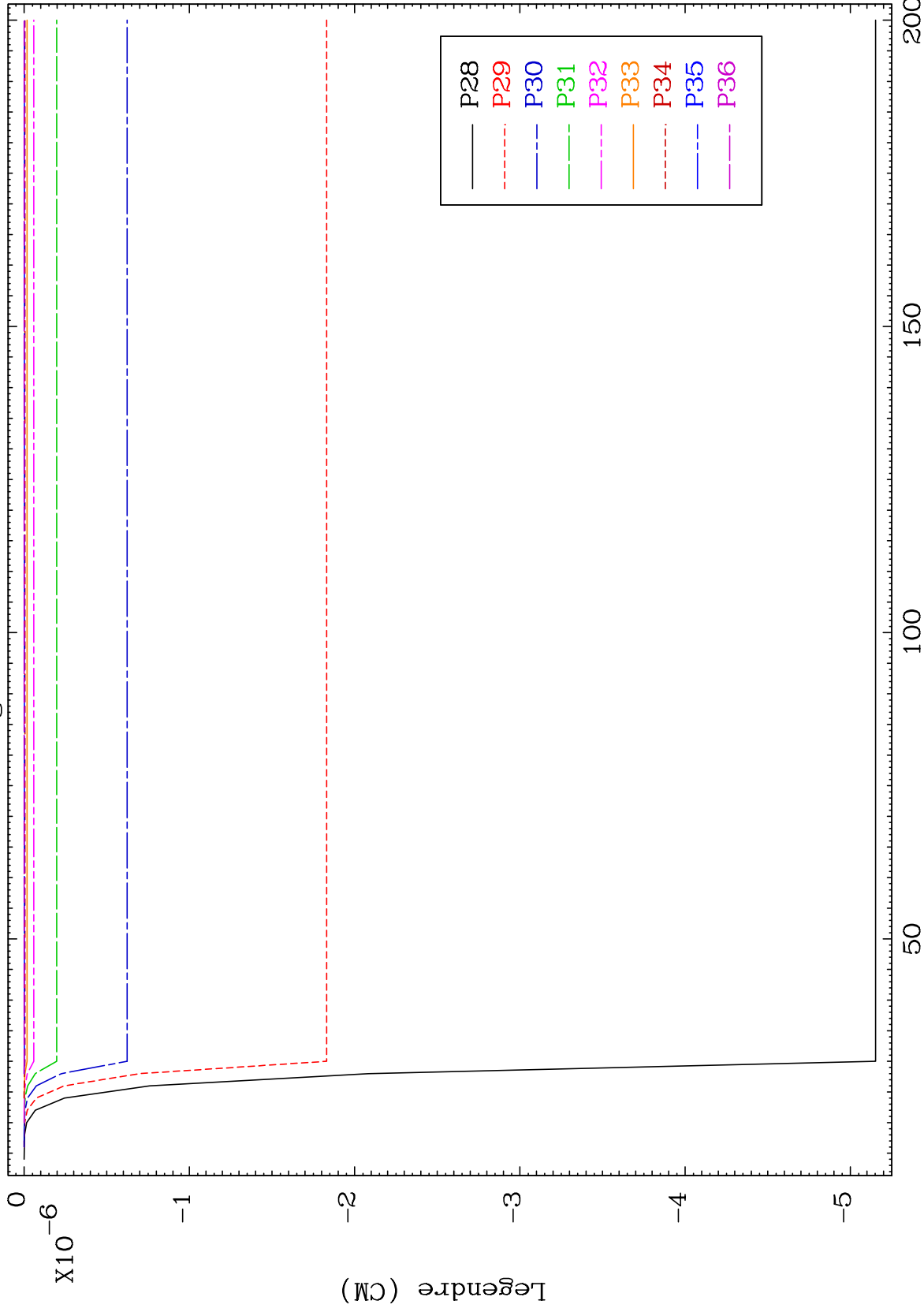
Incident Energy (MeV)

61-Pm-138

MAT 6122

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

61-Pm-138



122

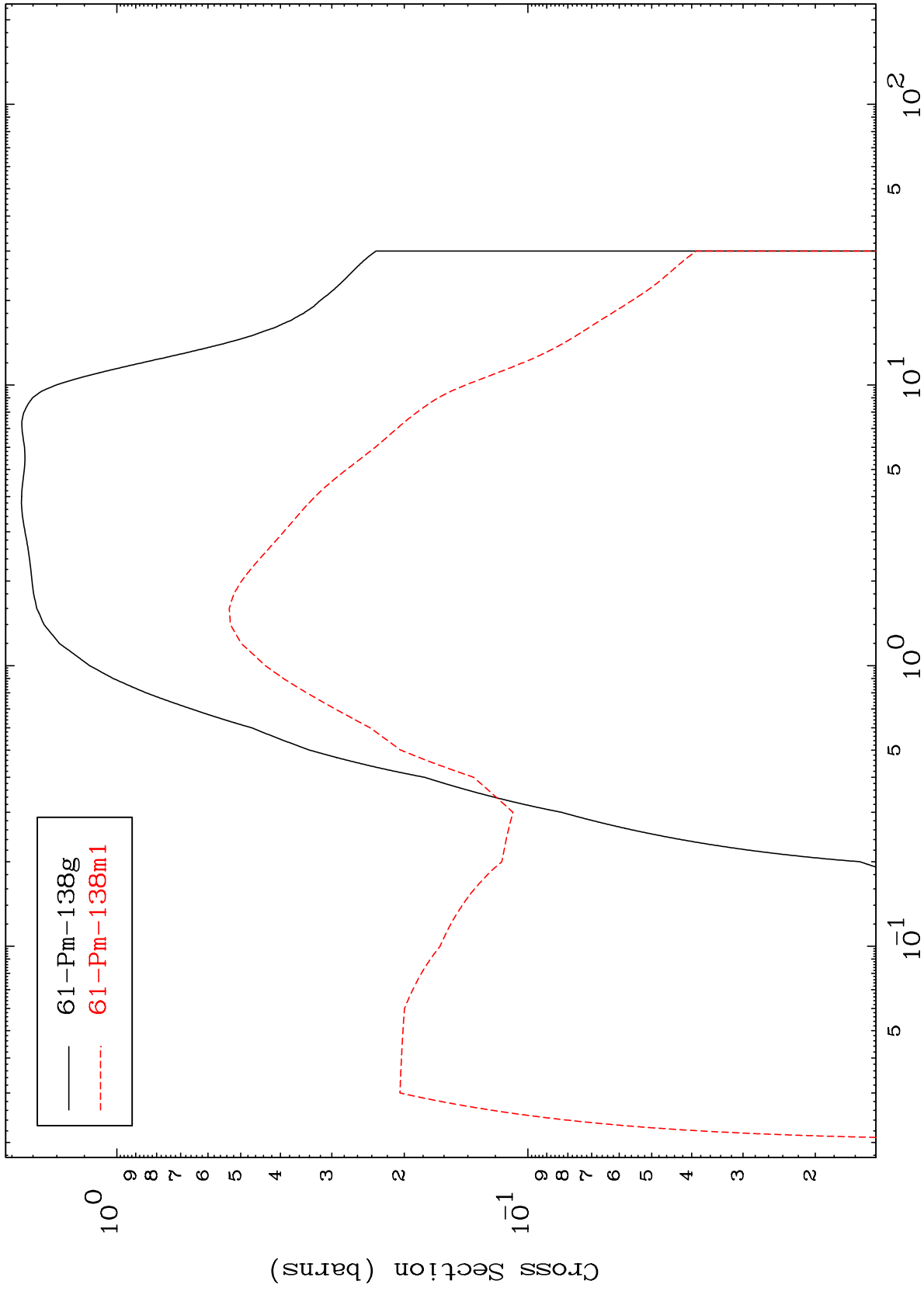
Incident Energy (MeV)

61-Pm-138

MAT 6122

61-Pm-138

Inelastic Radionuclide Production Cross Section



123

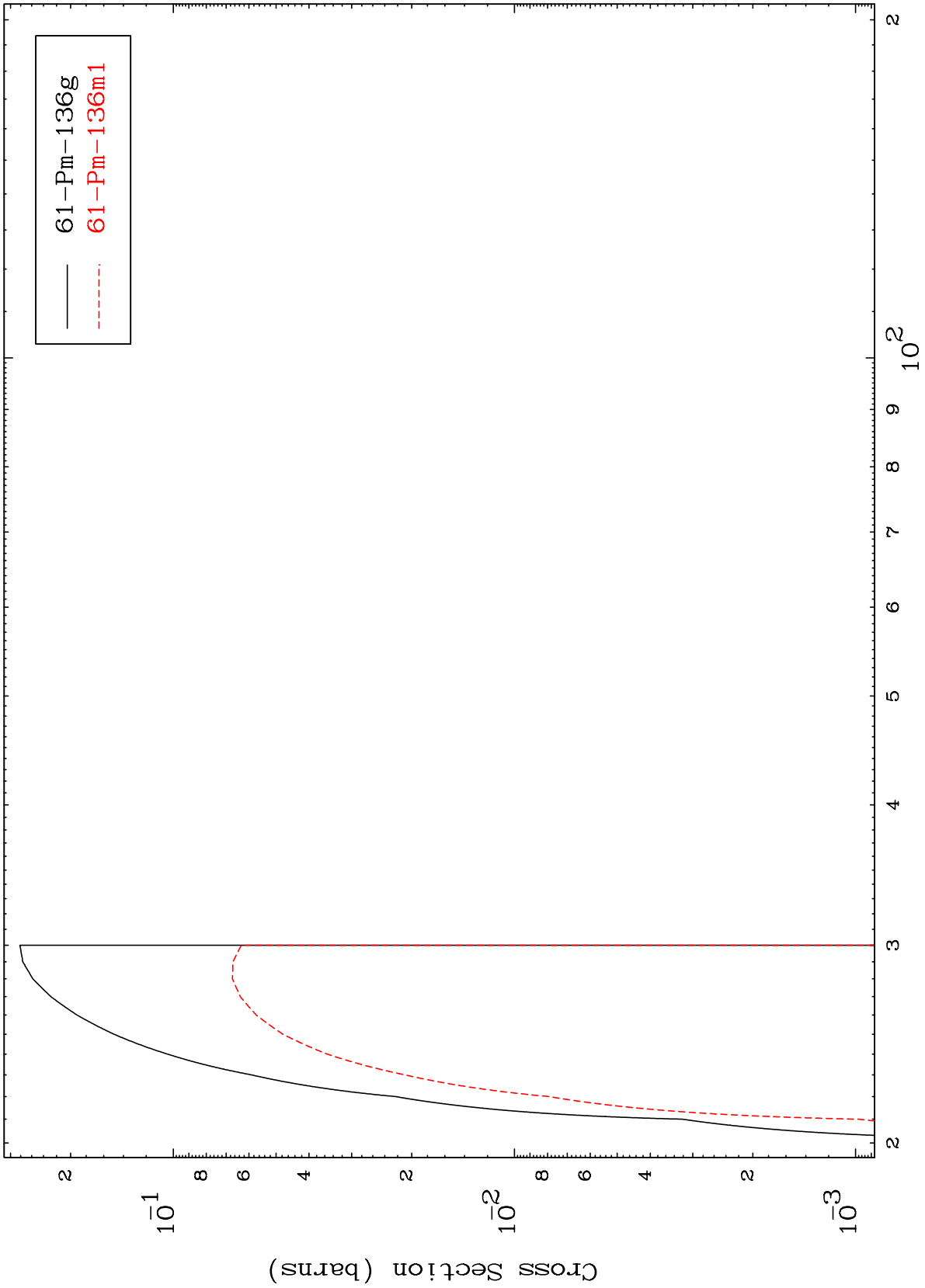
61-Pm-138

MAT 6122

(n,3n)

61-Pm-138

Radionuclide Production Cross Section



124

Incident Energy (MeV)

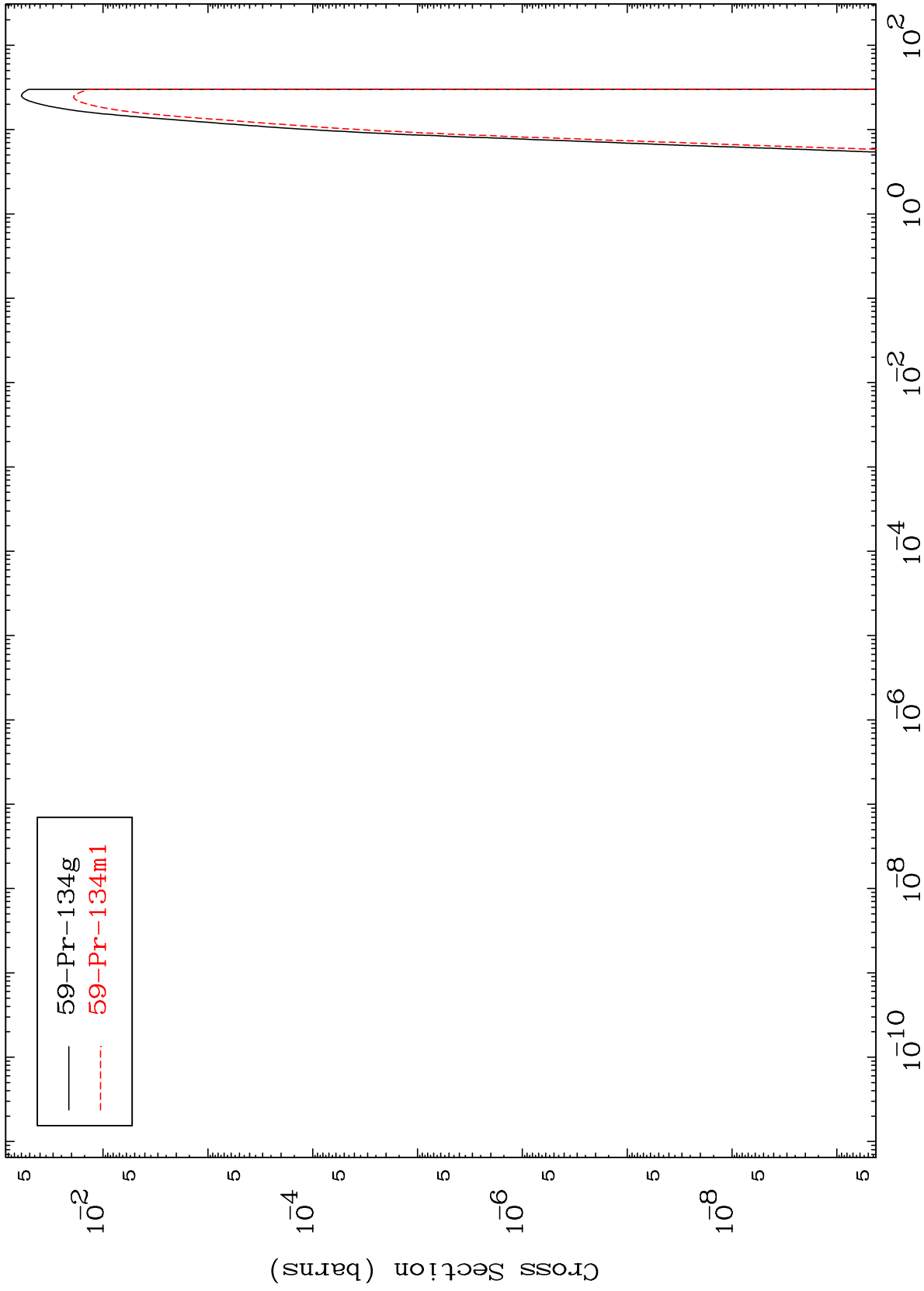
61-Pm-138

MAT 6122

(n,n') α

61-Pm-138

Radionuclide Production Cross Section



125

Incident Energy (MeV)

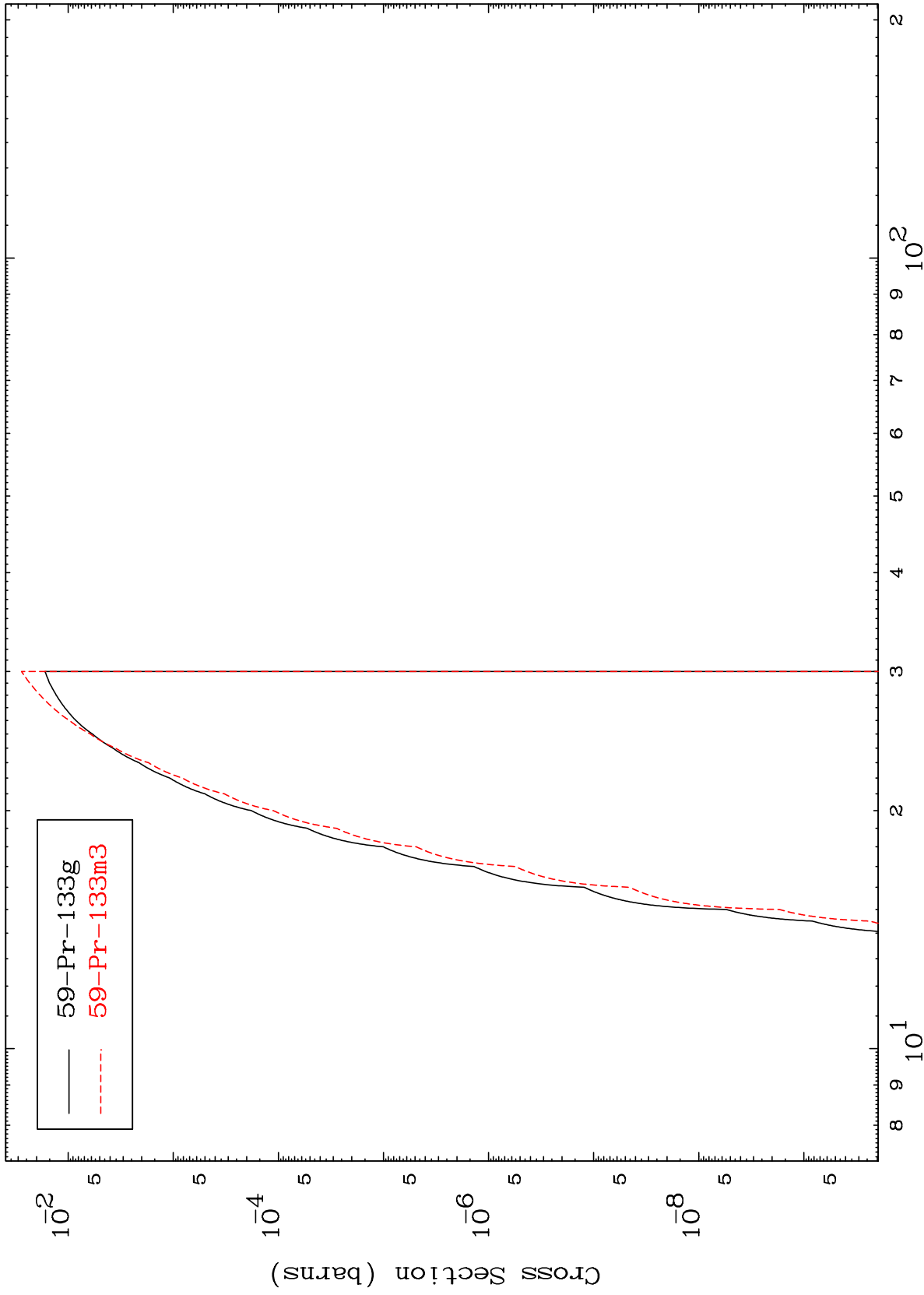
61-Pm-138

MAT 6122

(n,2n) α

61-Pm-138

Radionuclide Production Cross Section



59-Pr-133g
59-Pr-133m3

126

Incident Energy (MeV)

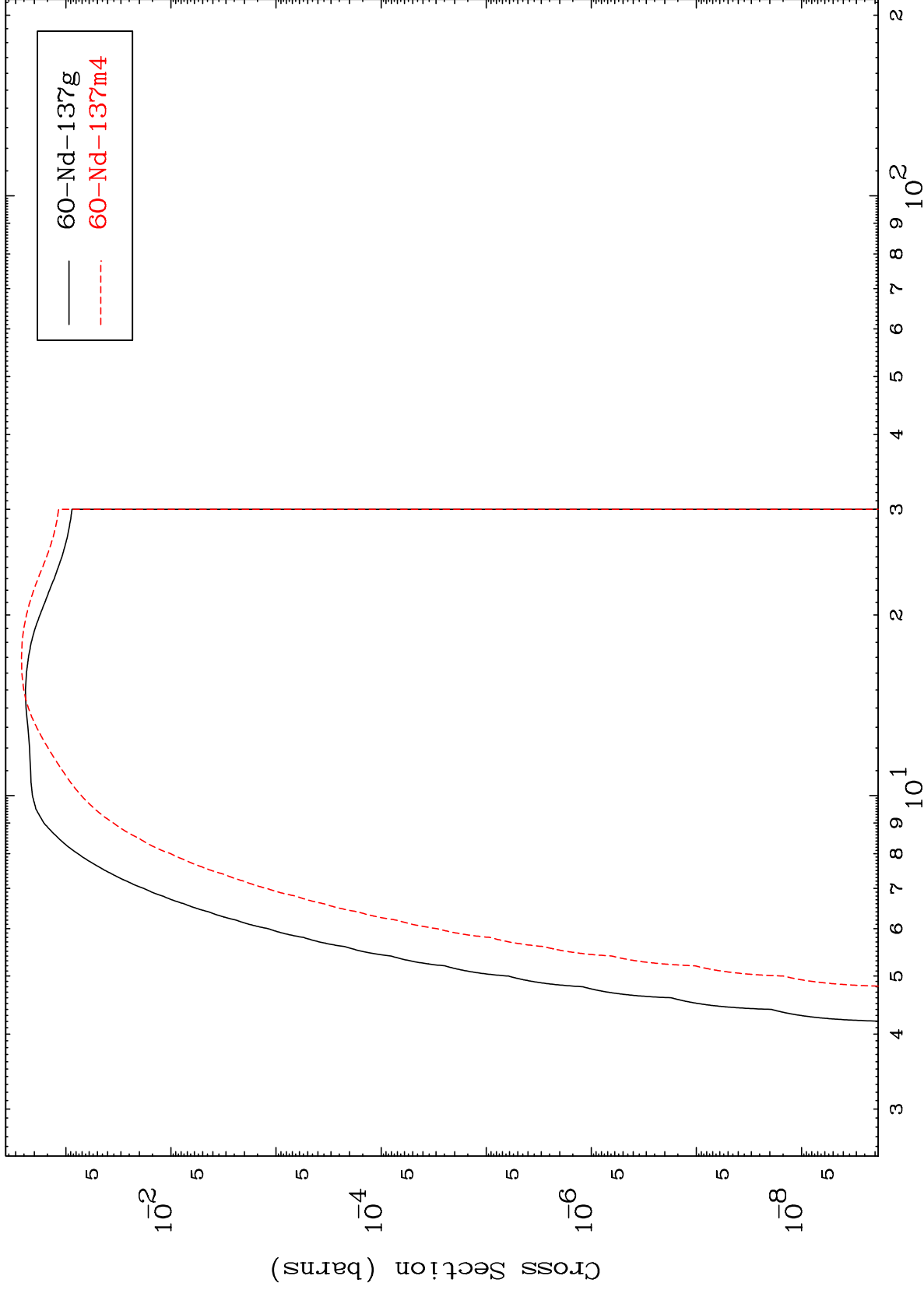
61-Pm-138

MAT 6122

(n,n') p

61-Pm-138

Radionuclide Production Cross Section



127

Incident Energy (MeV)

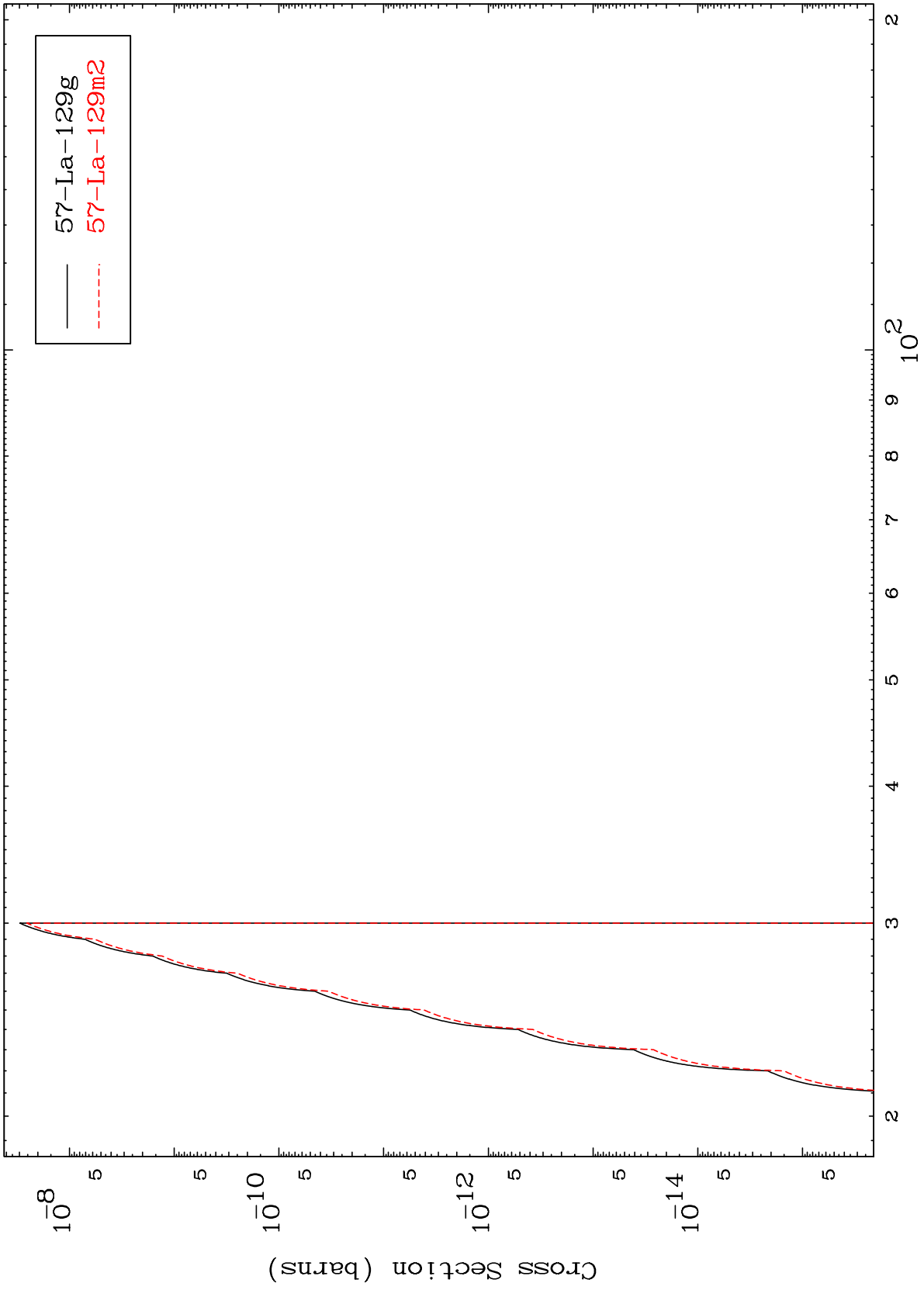
61-Pm-138

MAT 6122

(n,2n) 2 α

61-Pm-138

Radionuclide Production Cross Section



128

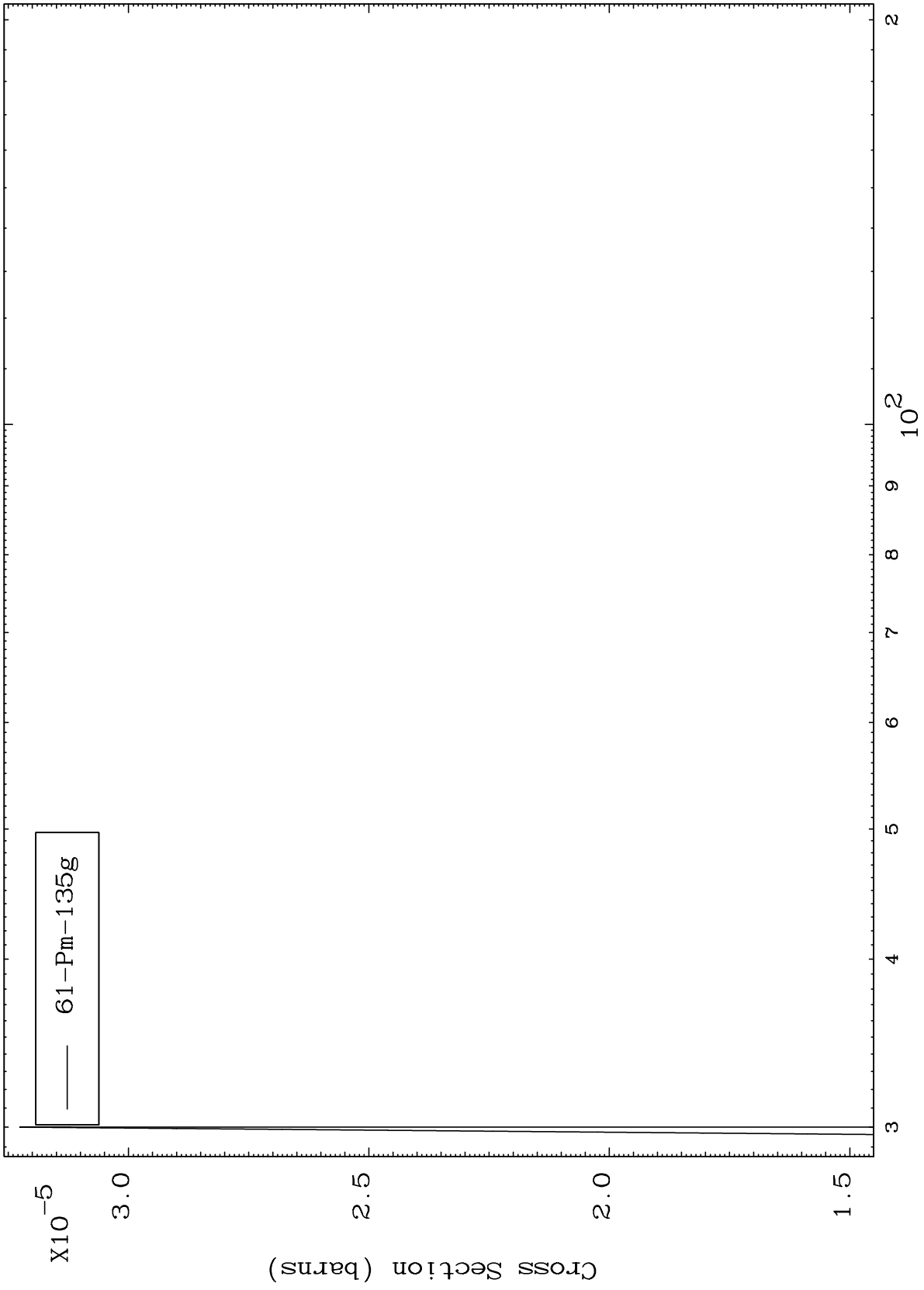
Incident Energy (MeV)

61-Pm-138

MAT 6122

61-Pm-138

(n,4n)
Radionuclide Production Cross Section



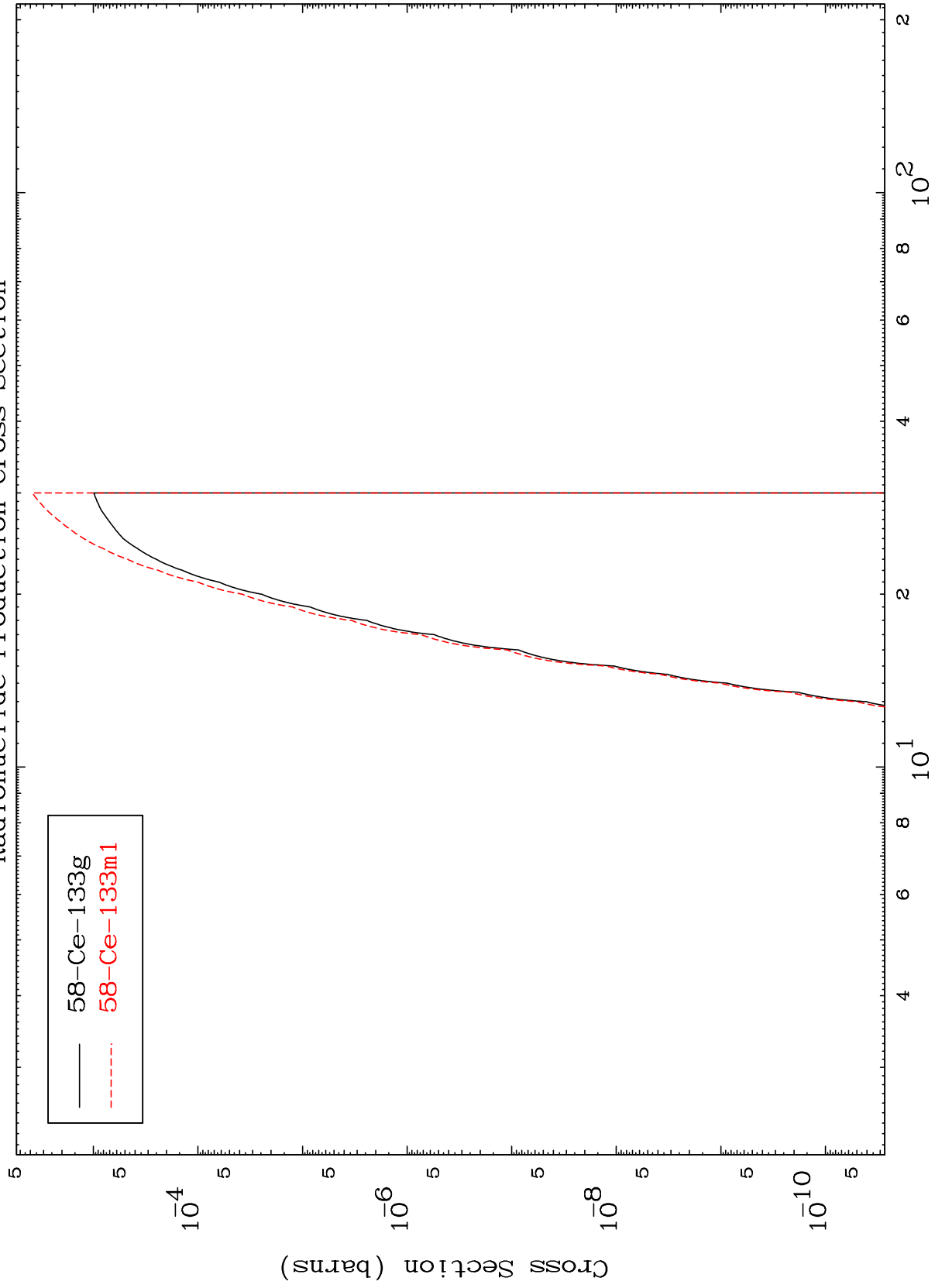
129

61-Pm-138

MAT 6122

61-Pm-138

(n,n') p α
Radionuclide Production Cross Section



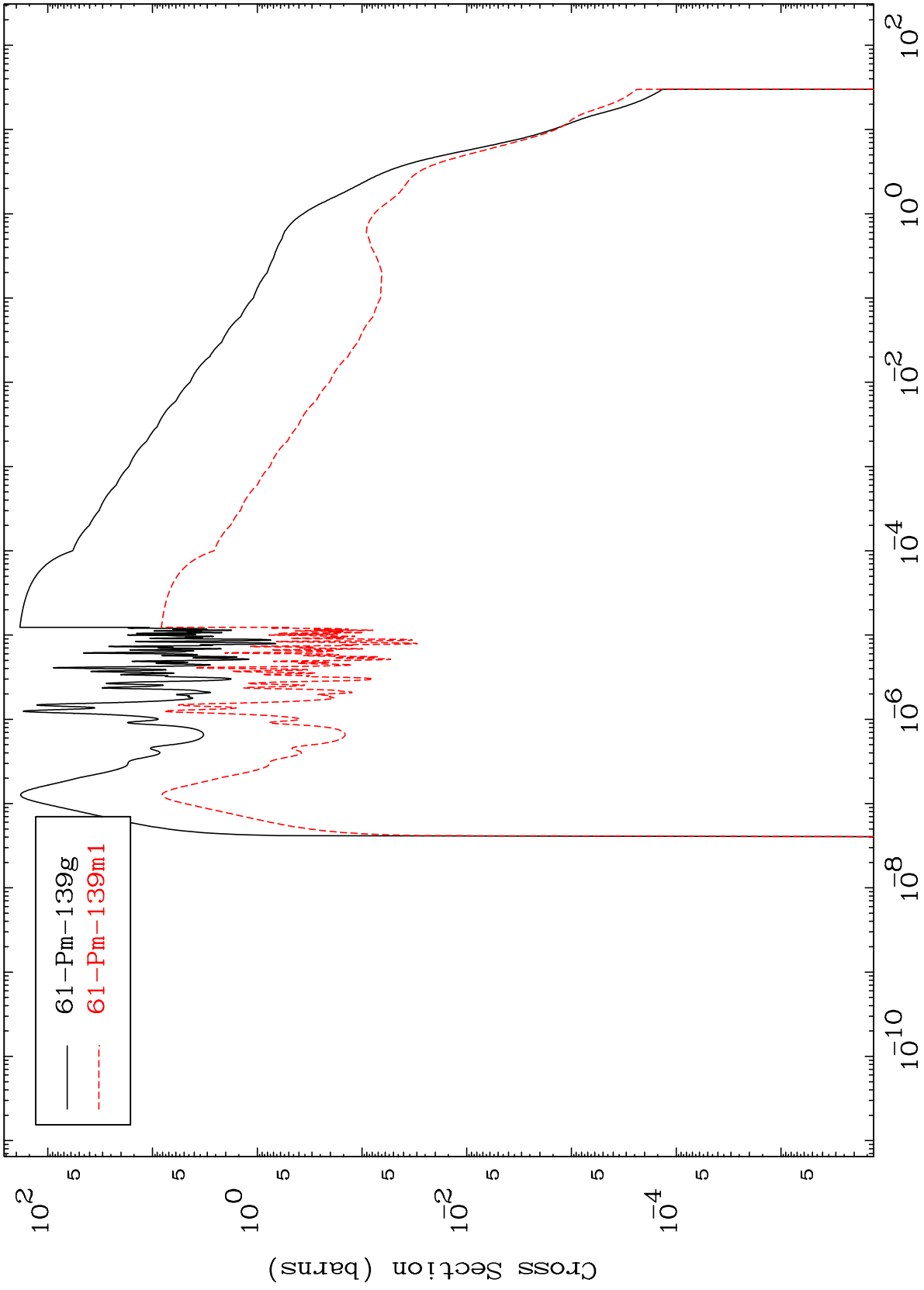
130

61-Pm-138

MAT 6122

61-Pm-138

Radionuclide Production Cross Section (n,γ)



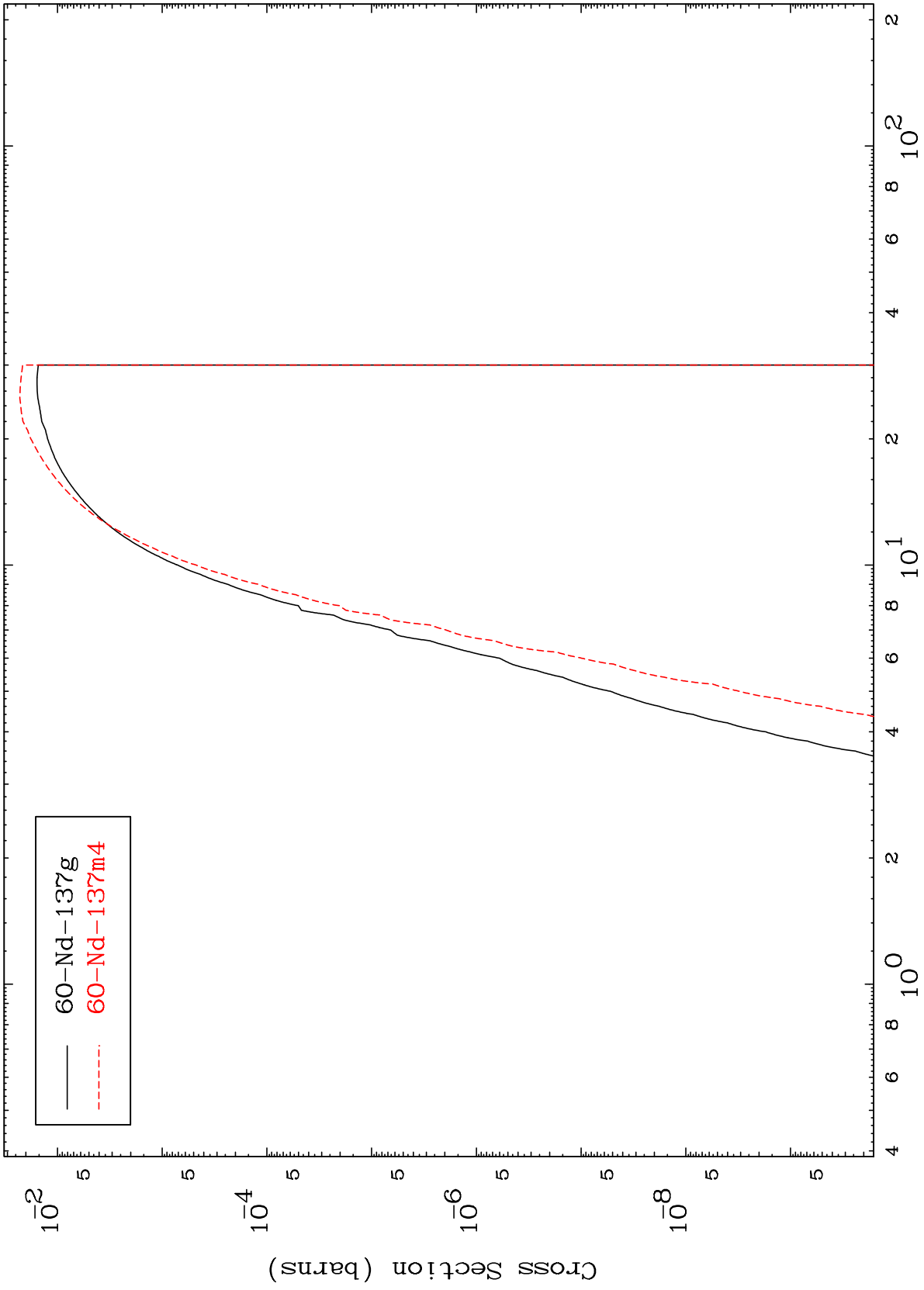
131

MAT 6122

(n,d)

61-Pm-138

Radionuclide Production Cross Section



132

Incident Energy (MeV)

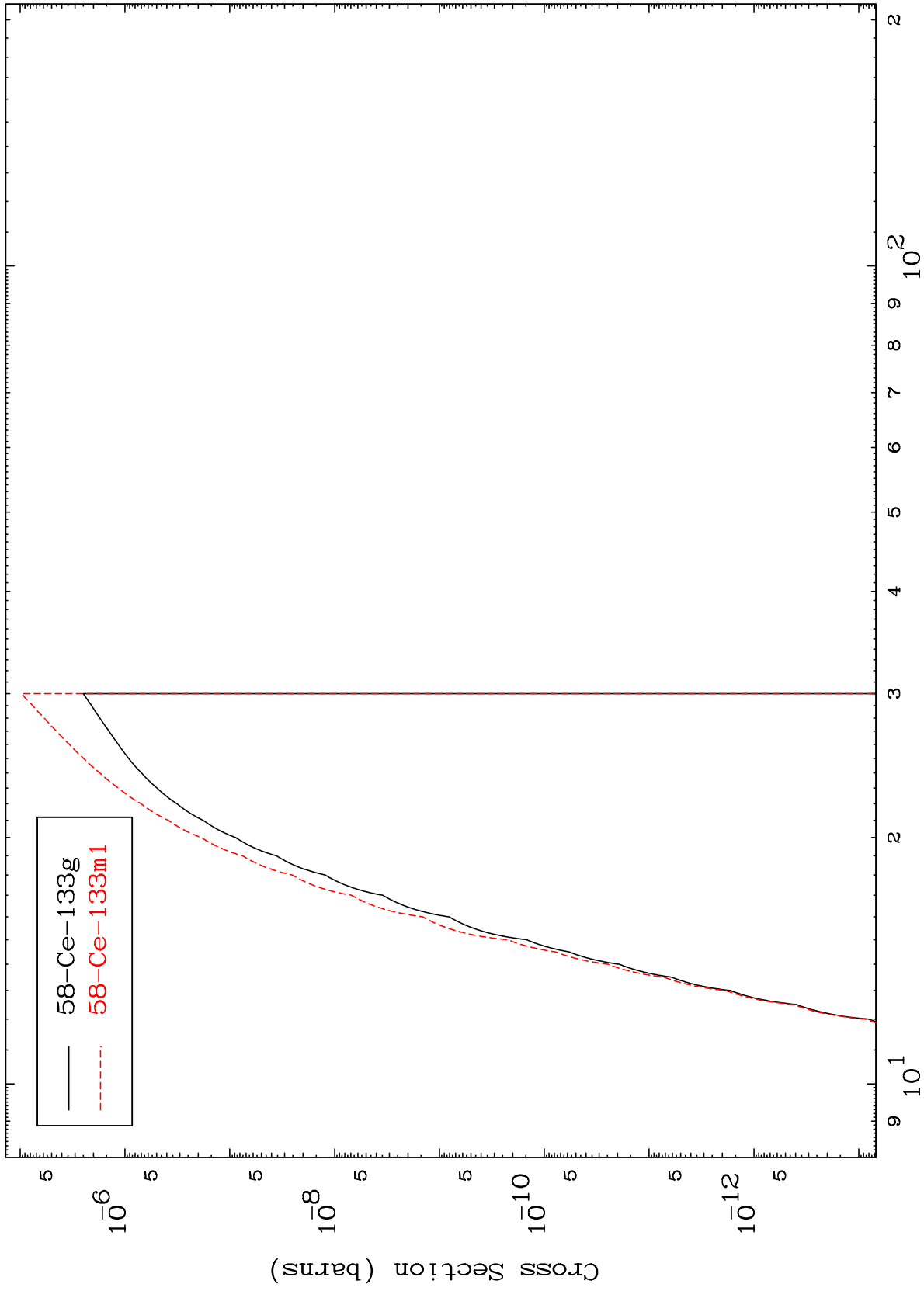
61-Pm-138

MAT 6122

(n,d) α

61-Pm-138

Radionuclide Production Cross Section



133

Incident Energy (MeV)

61-Pm-138