

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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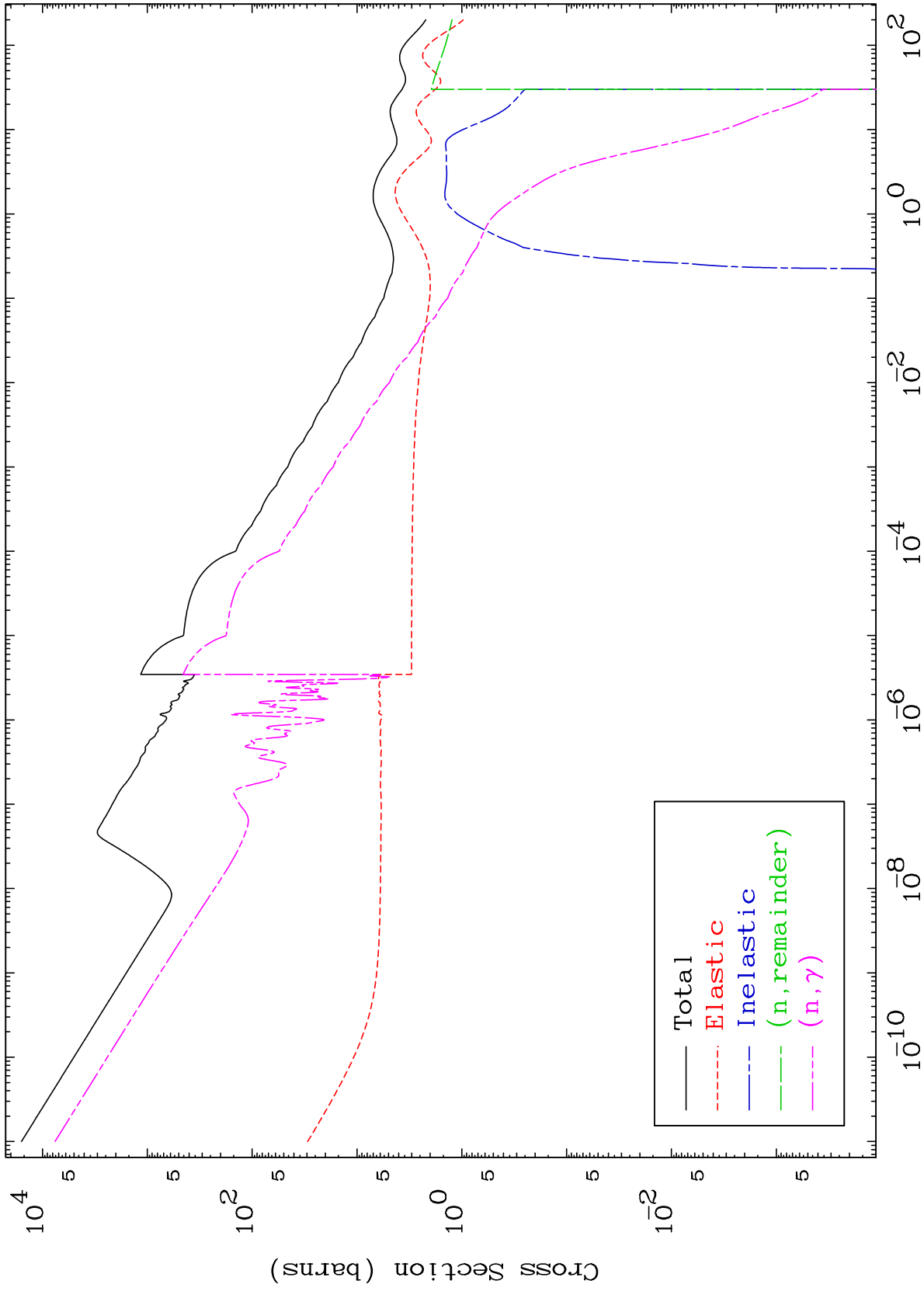
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6116

Major  
293 Kelvin Cross Sections

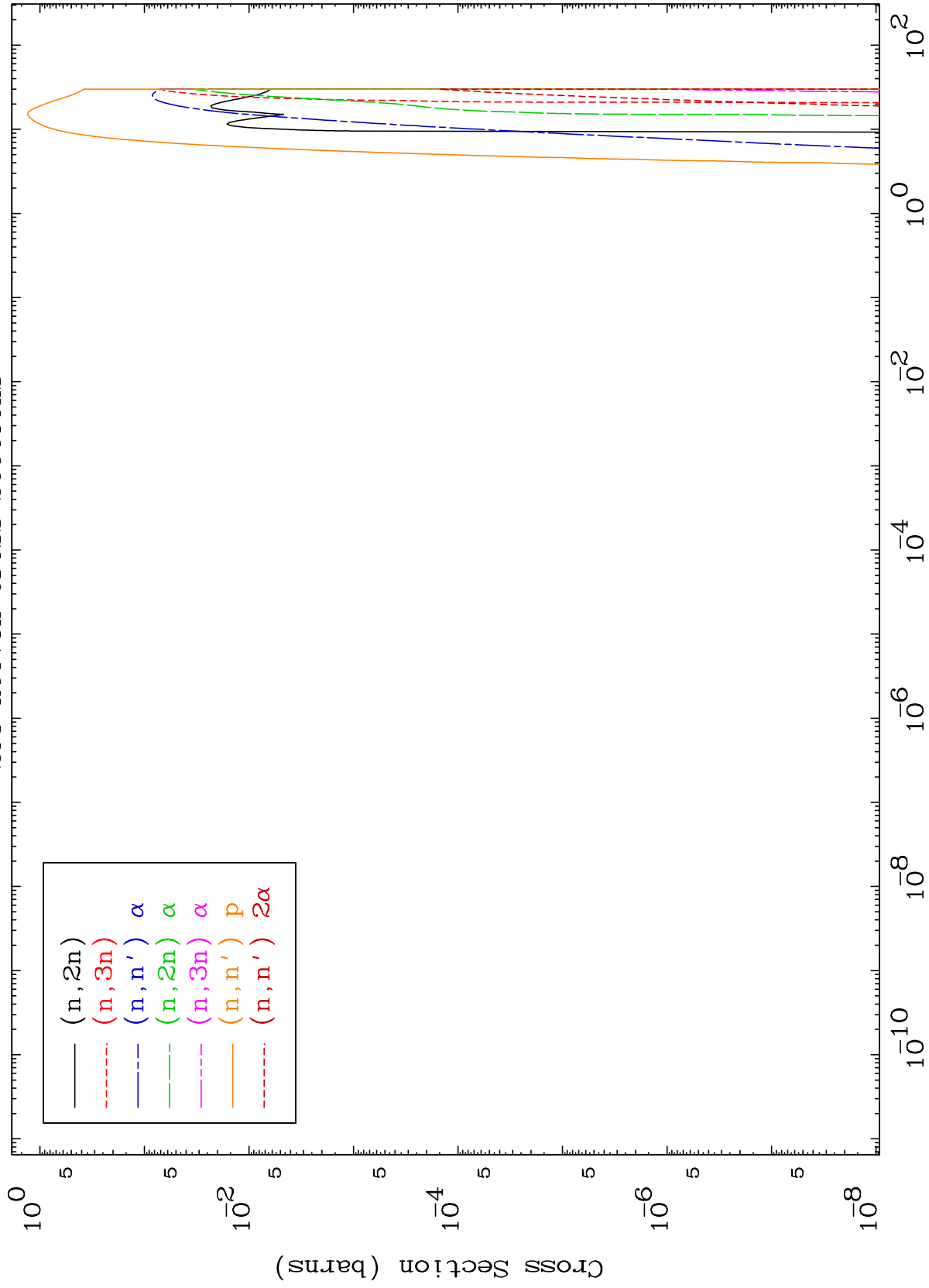
61-Pm-136



MAT 6116

Neutron Production  
293 Kelvin Cross Sections

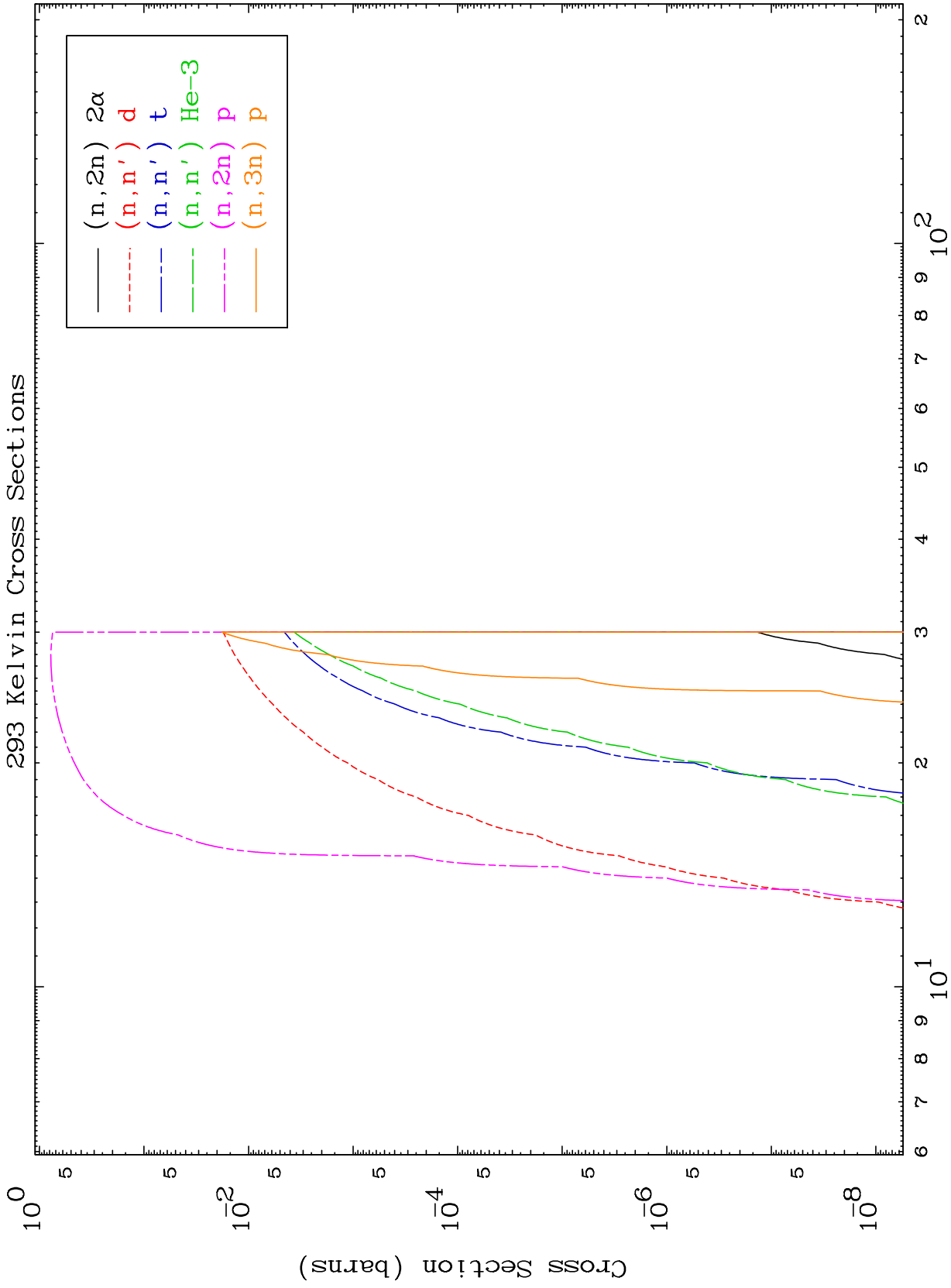
61-Pm-136



MAT 6116

Neutron Production  
293 Kelvin Cross Sections

61-Pm-136



3

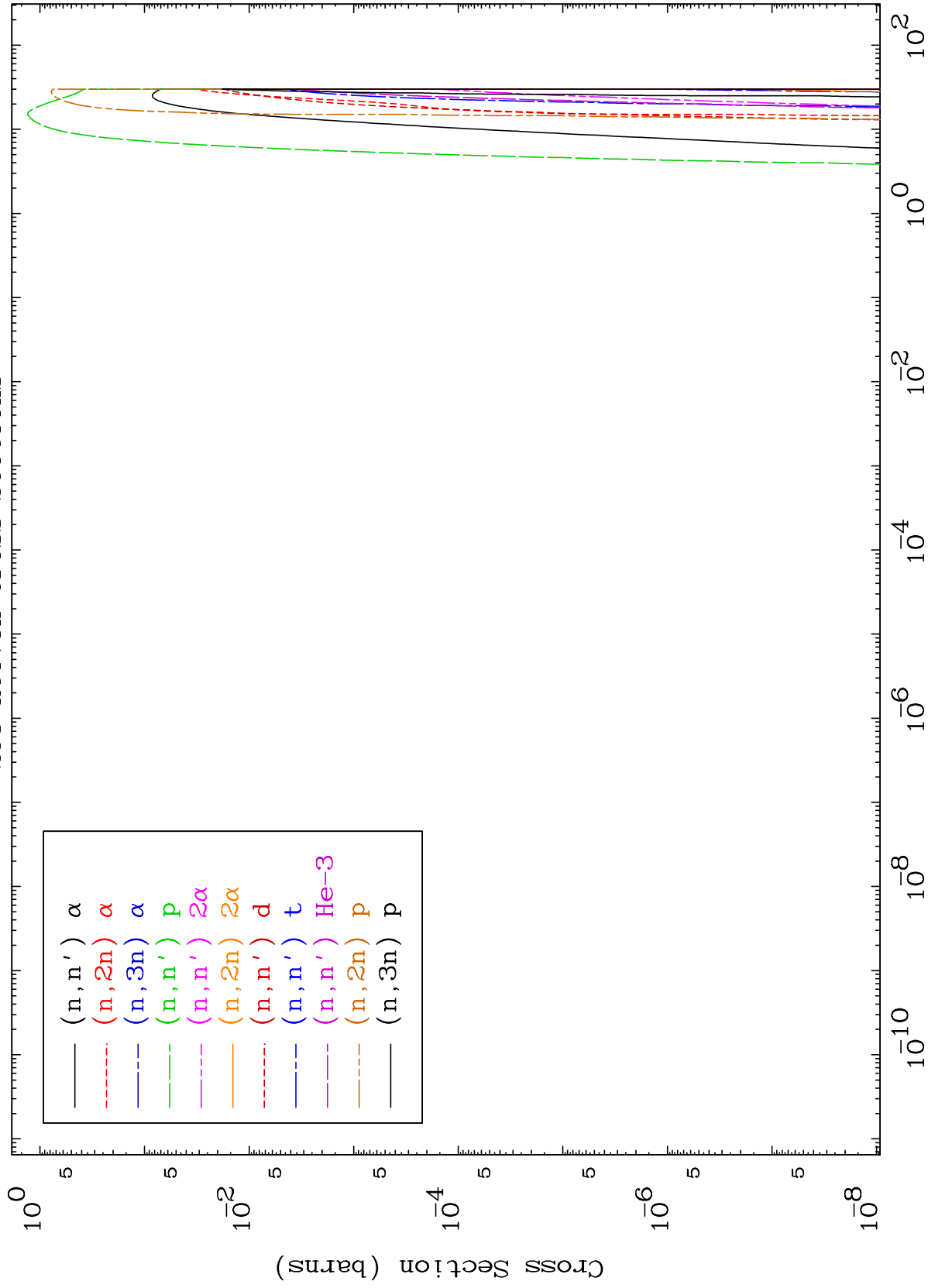
Incident Energy (MeV)

61-Pm-136

MAT 6116

Charged Particle  
293 Kelvin Cross Sections

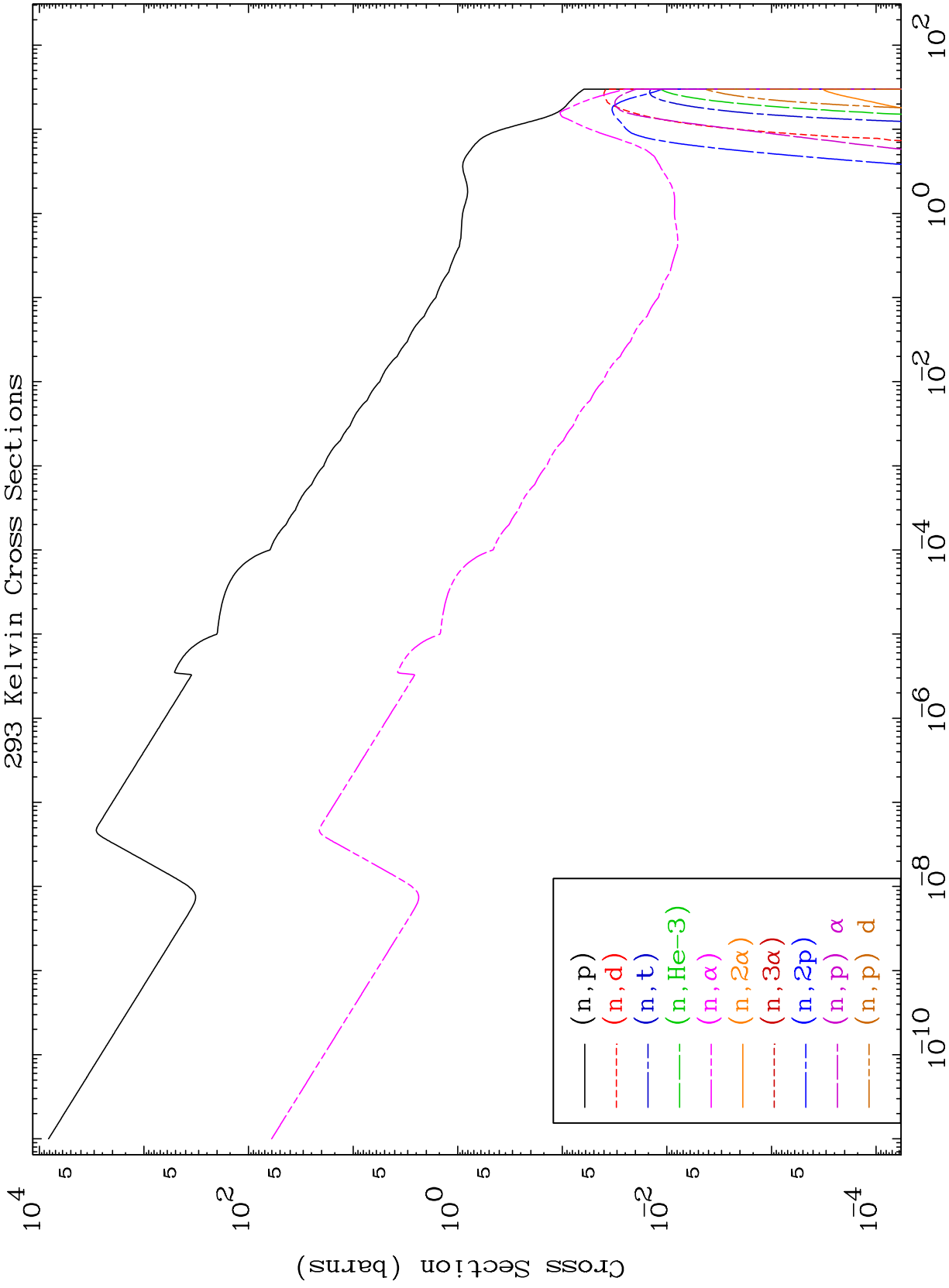
61-Pm-136



MAT 6116

293 Kelvin Cross Sections

61-Pm-136



5

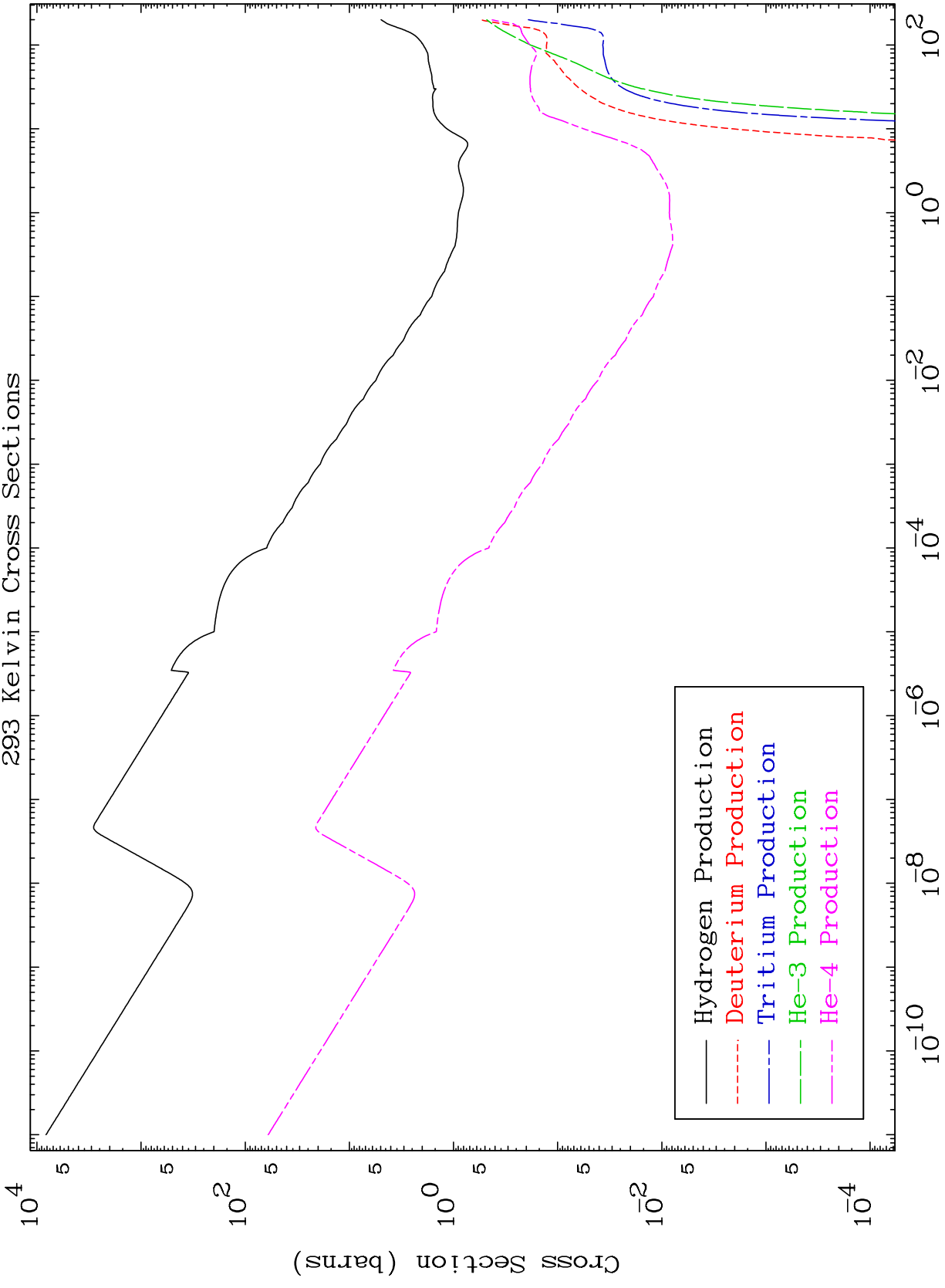
Incident Energy (MeV)

61-Pm-136

MAT 6116

Particle Production  
293 Kelvin Cross Sections

61-Pm-136



6

Incident Energy (MeV)

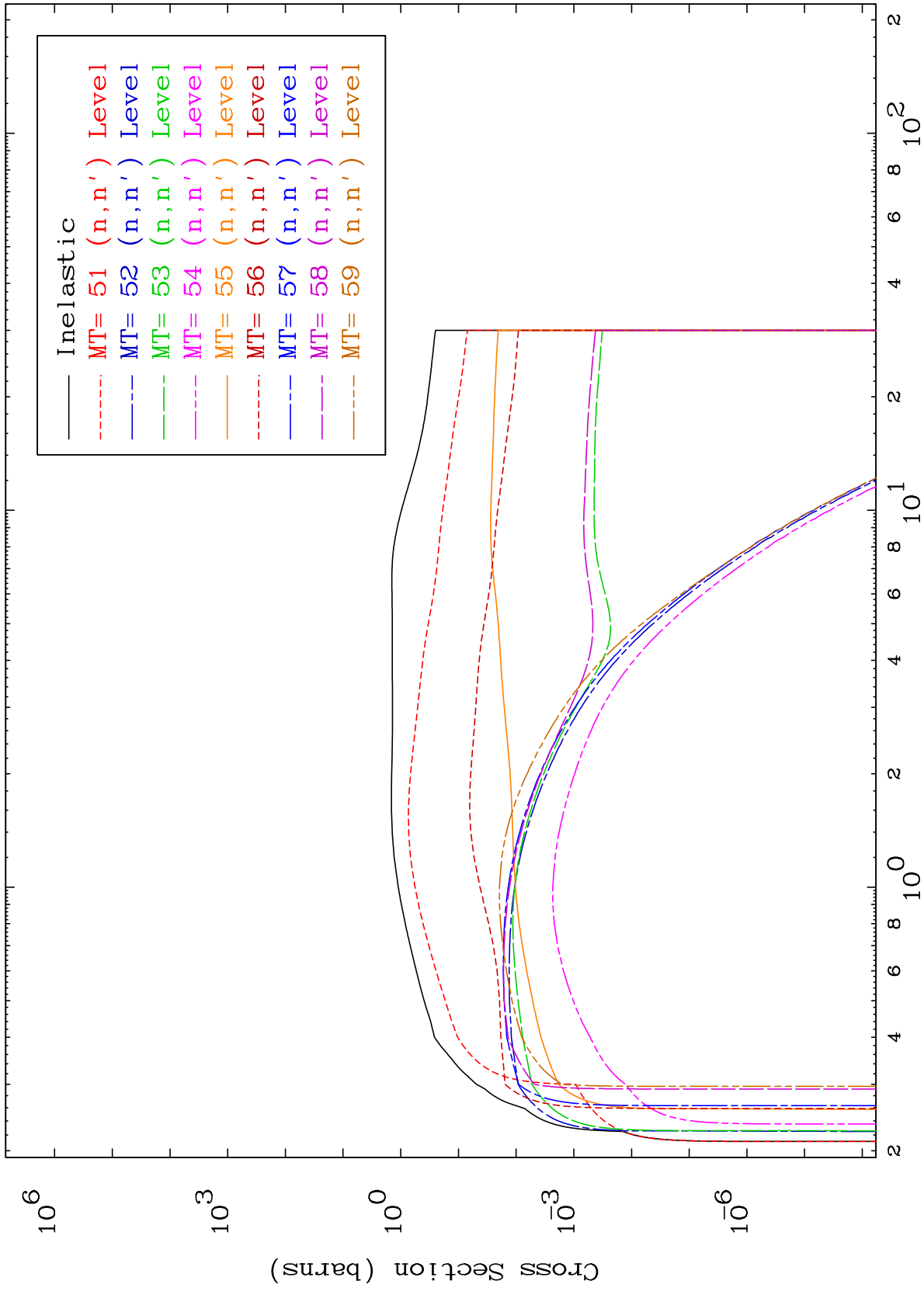
61-Pm-136

MAT 6116

(n,n') Level

61-Pm-136

293 Kelvin Cross Sections



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Incident Energy (MeV)

61-Pm-136

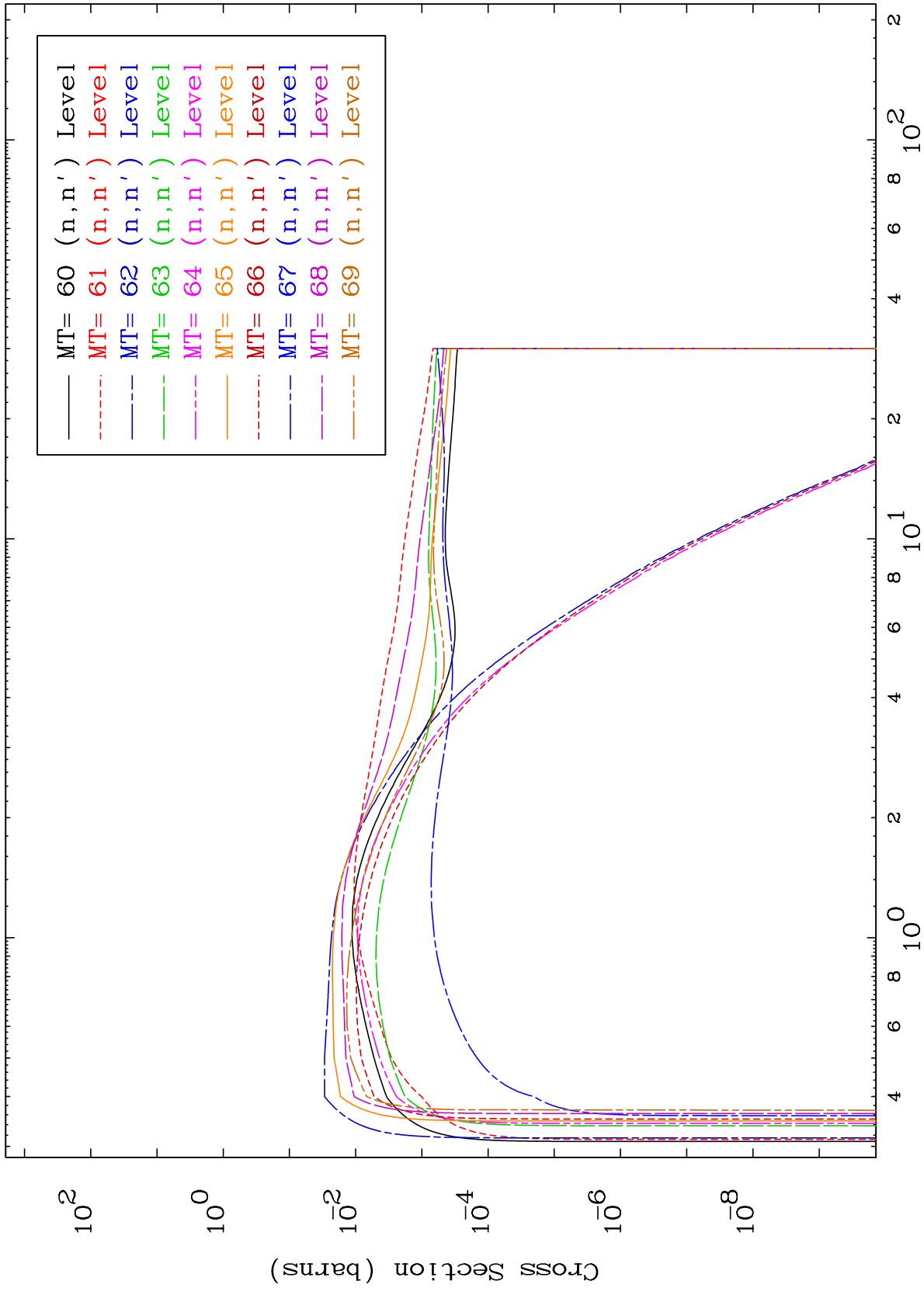


MAT 6116

(n,n') Level

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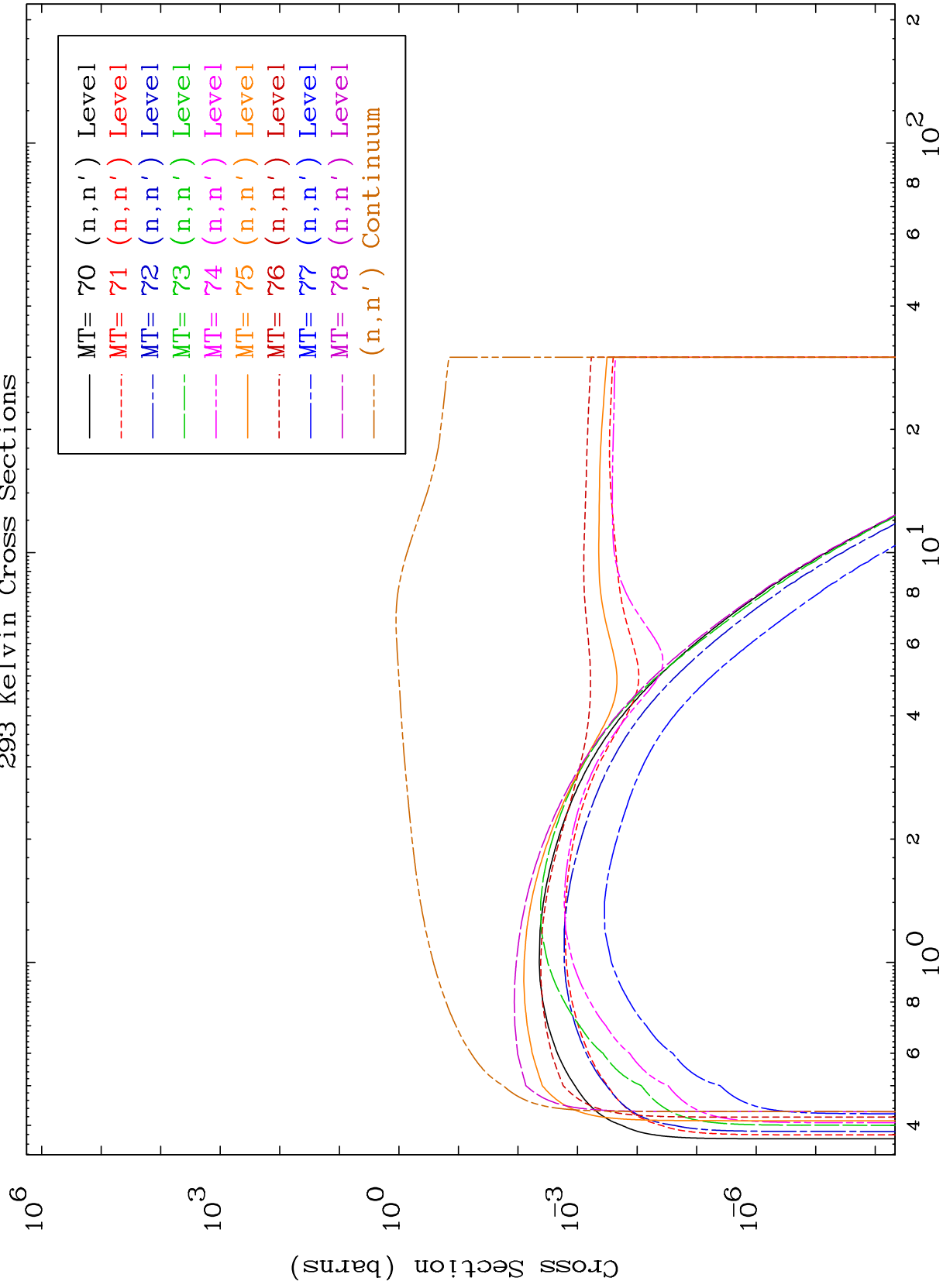
293 Kelvin Cross Sections

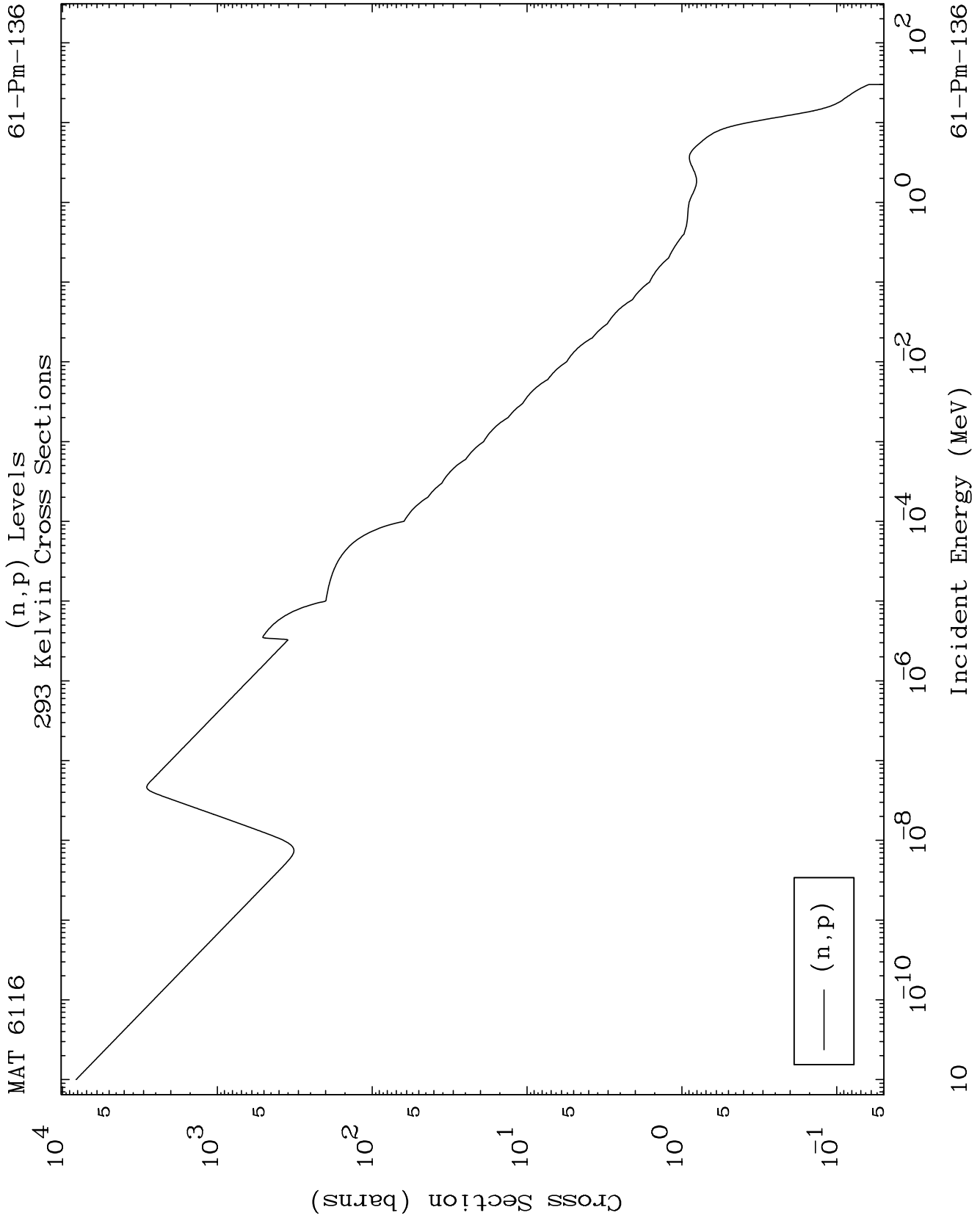


8

Incident Energy (MeV)

61-Pm-136

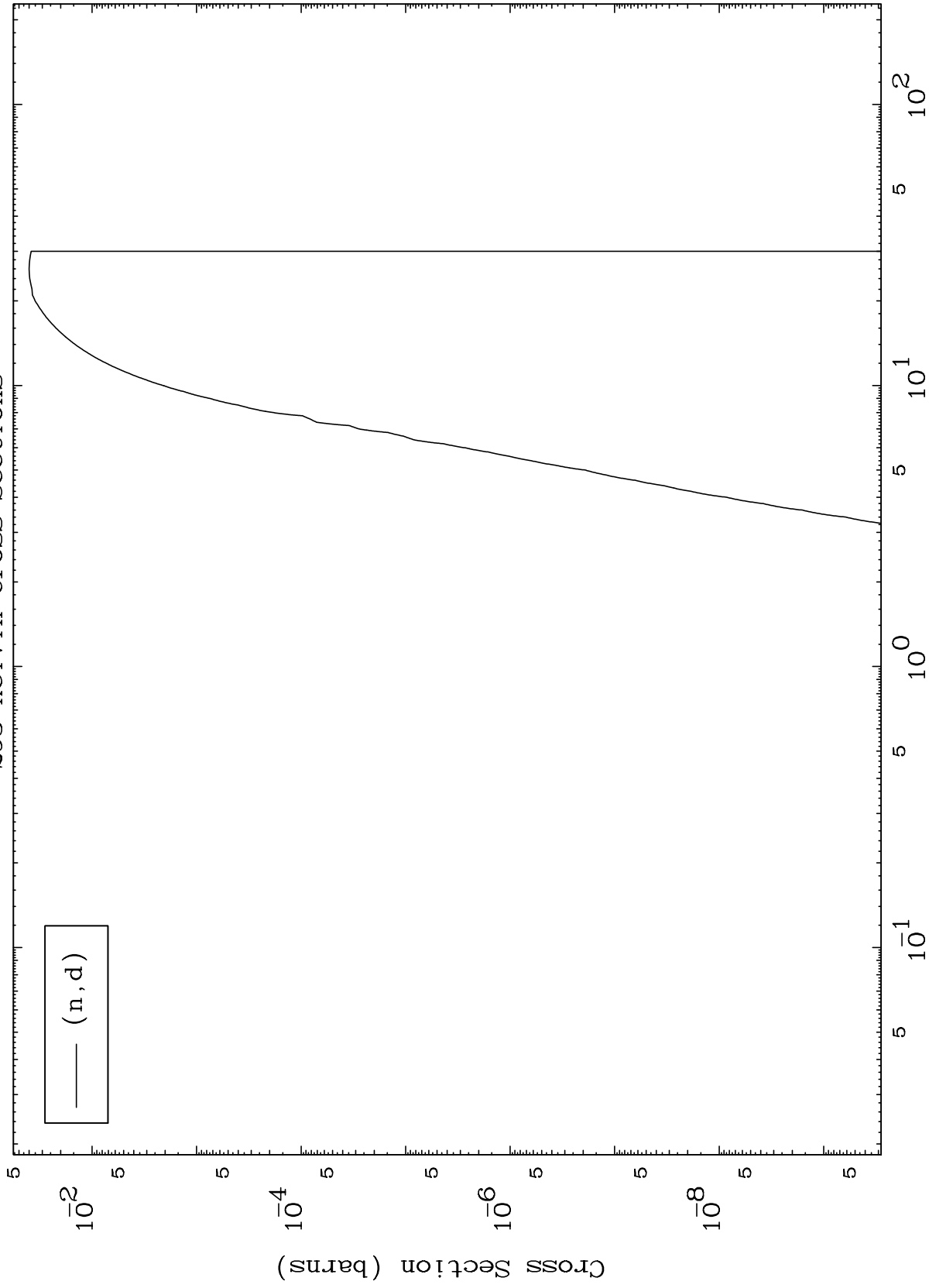




MAT 6116

(n,d) Levels  
293 Kelvin Cross Sections

61-Pm-136



11

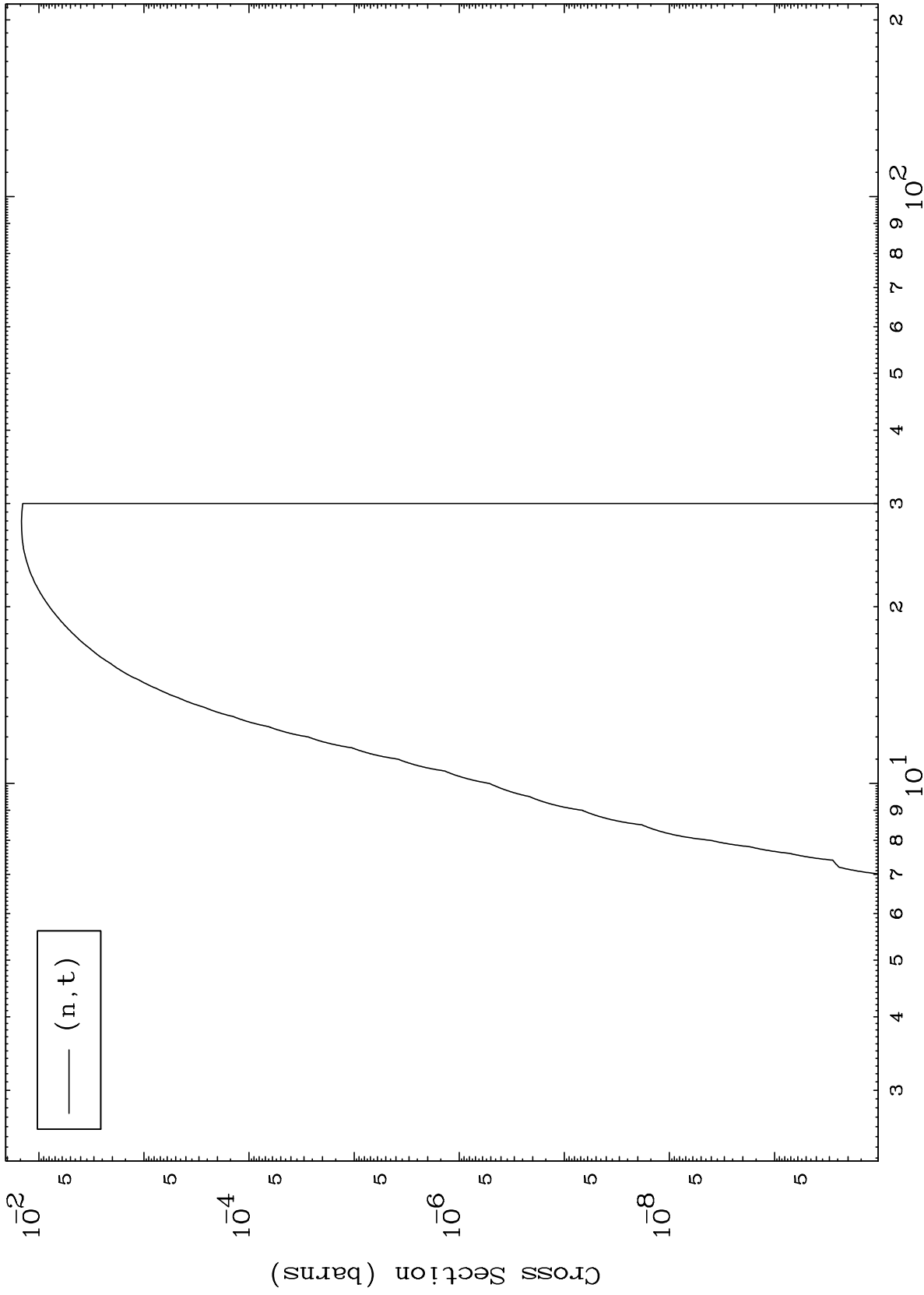
Incident Energy (MeV)

61-Pm-136

MAT 6116

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-136



12

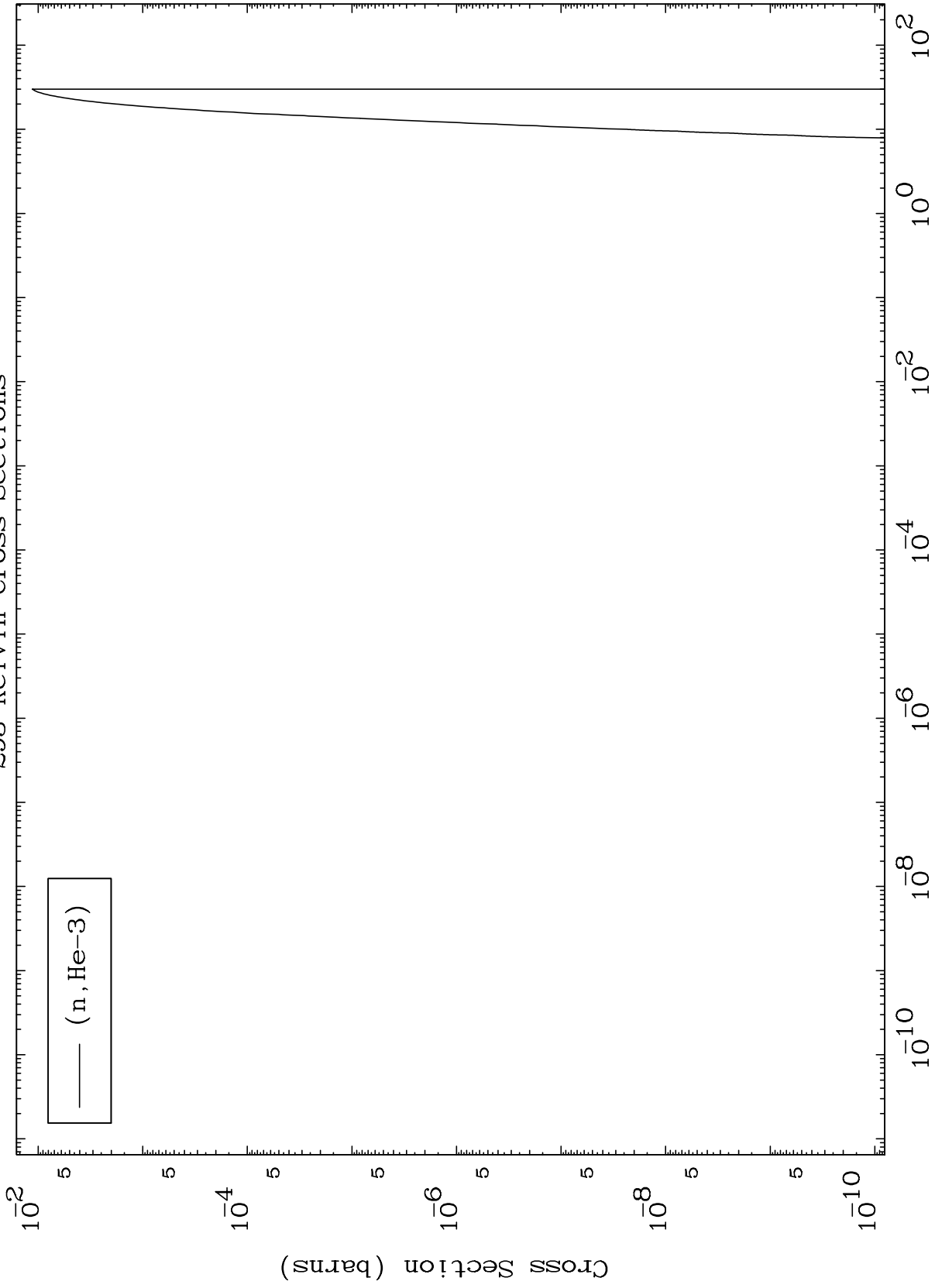
Incident Energy (MeV)

61-Pm-136

MAT 6116

(n,He3) Levels  
293 Kelvin Cross Sections

61-Pm-136



13

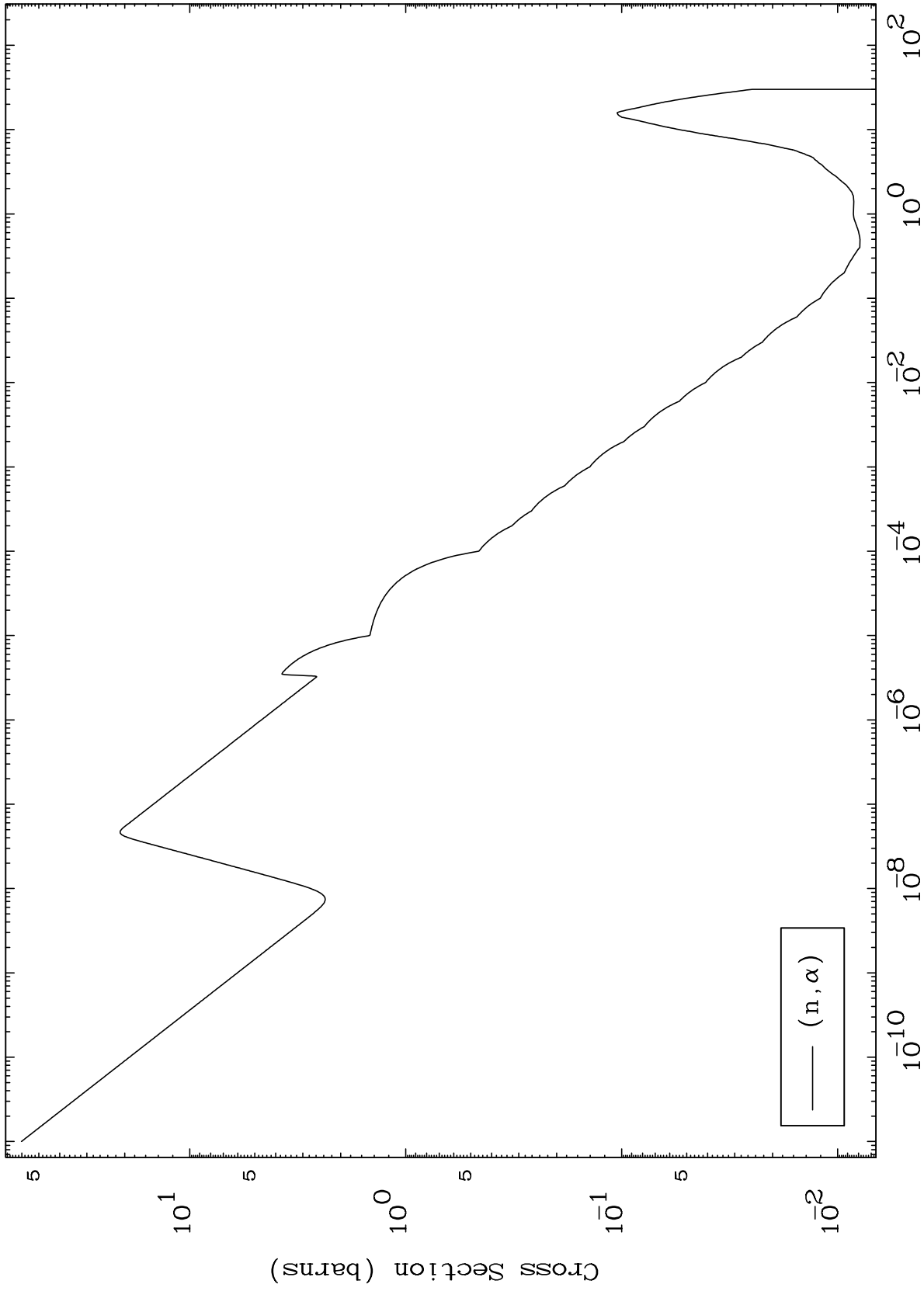
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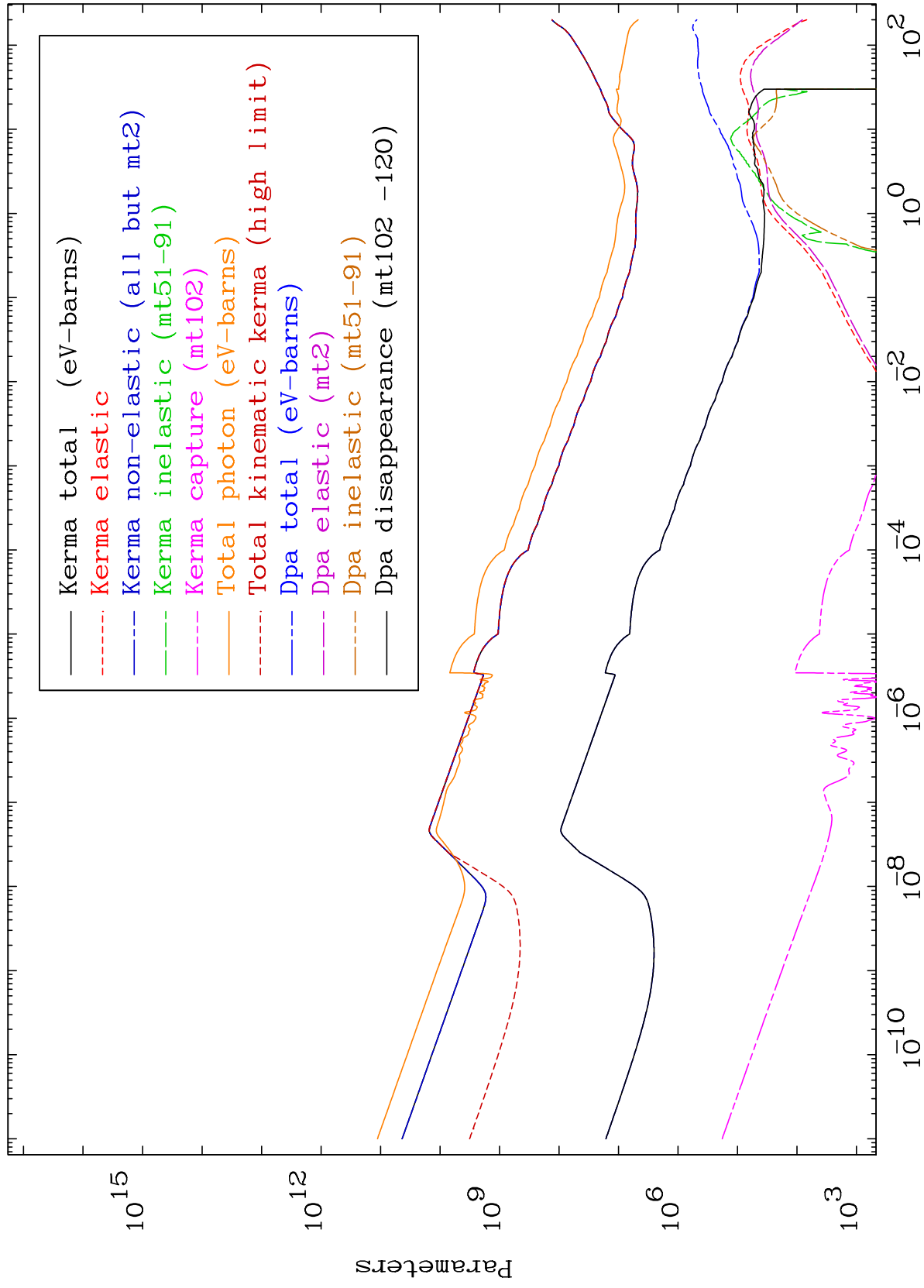
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MAT 6116

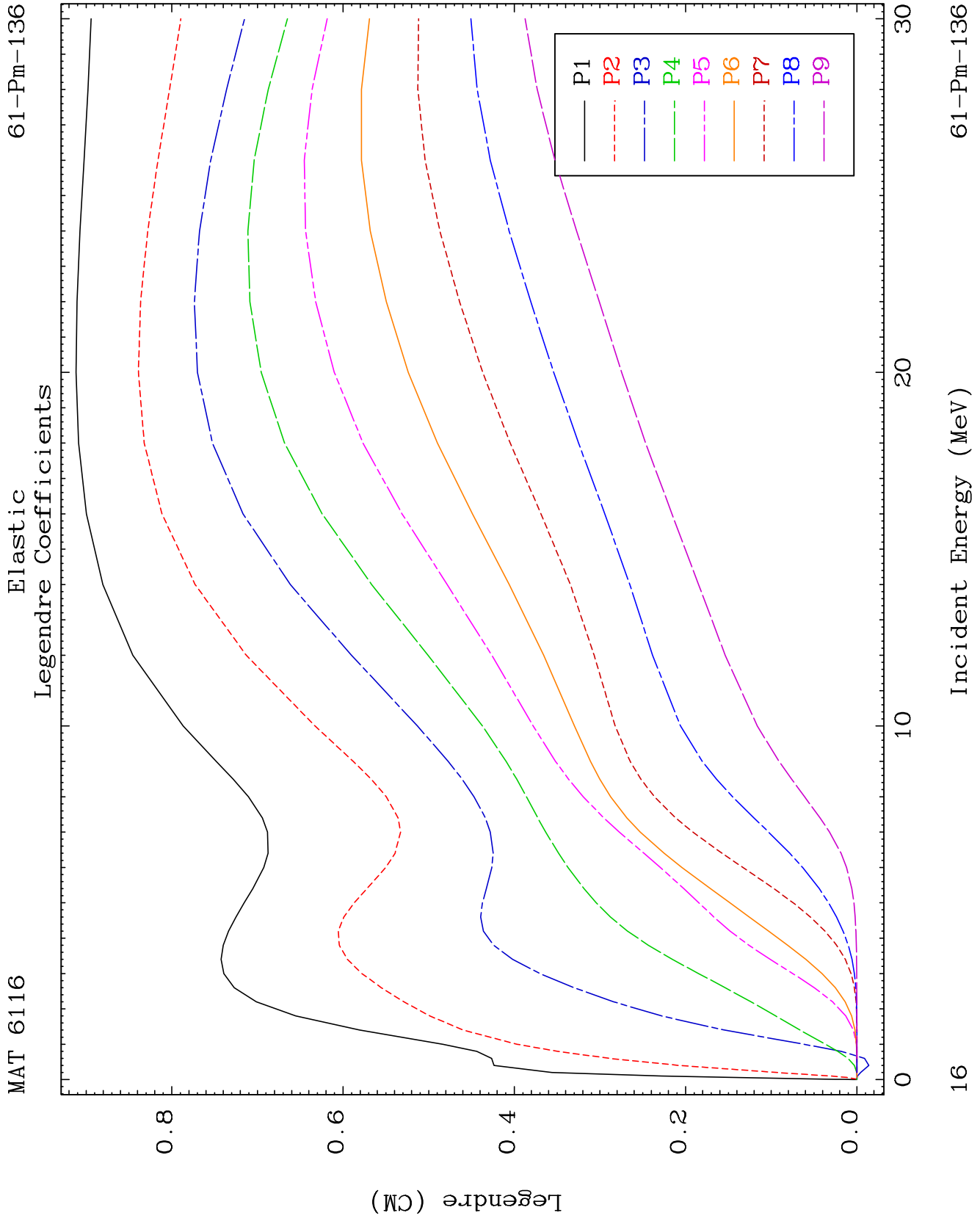
(n,α) Levels  
293 Kelvin Cross Sections

61-Pm-136





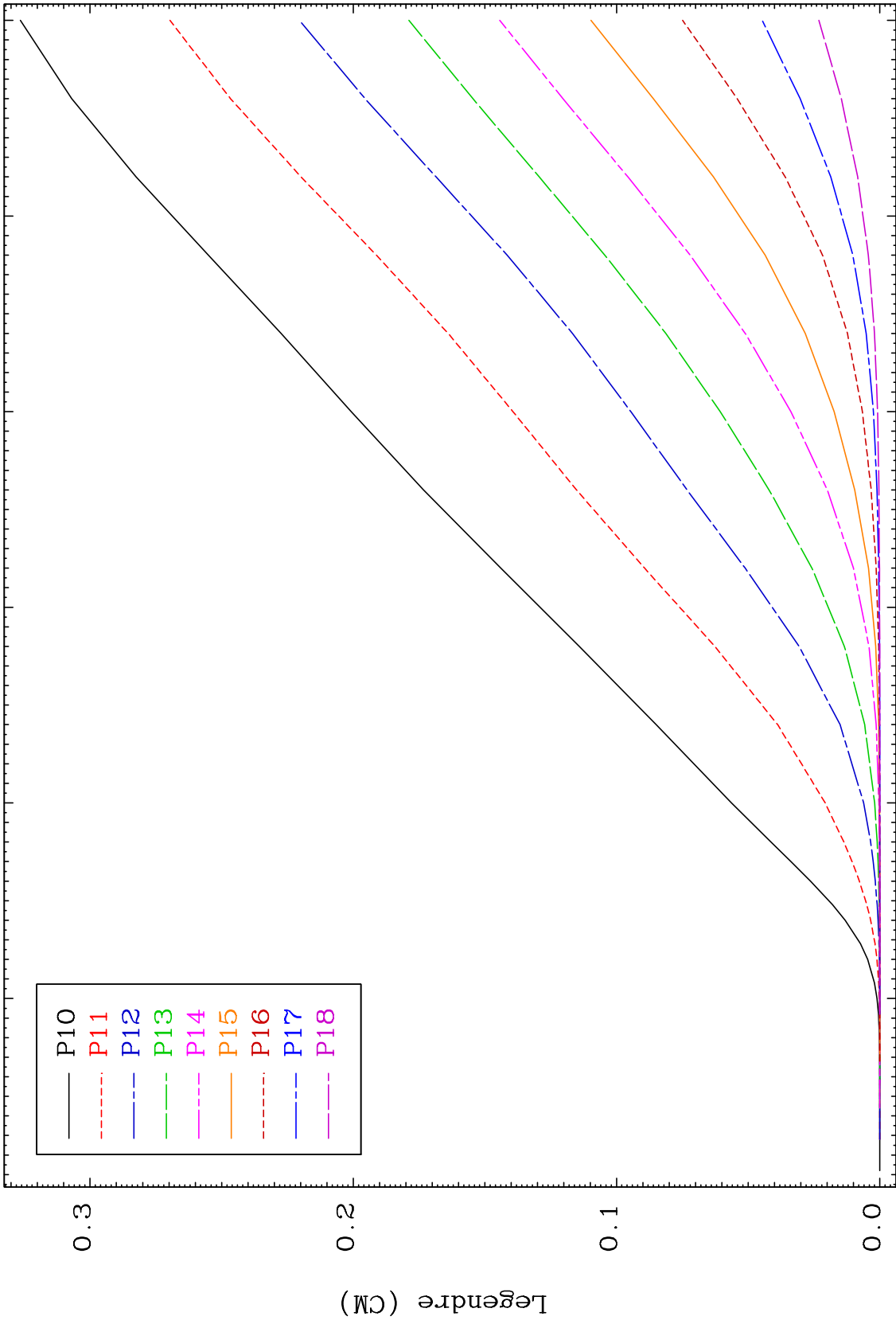




MAT 6116

Elastic  
Legendre Coefficients

61-Pm-136



17

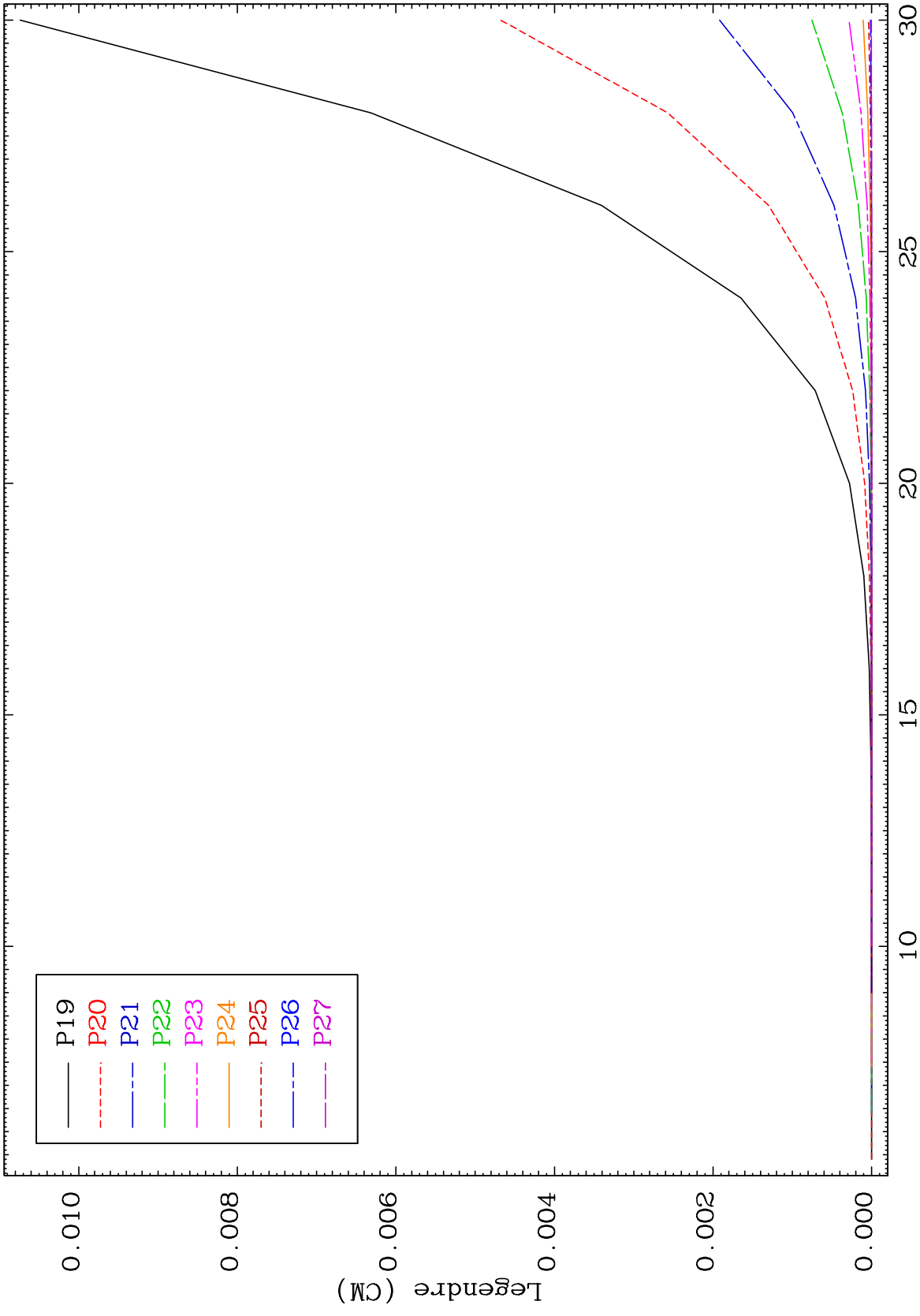
Incident Energy (MeV)

61-Pm-136

MAT 6116

### Elastic Legendre Coefficients

61-Pm-136



18

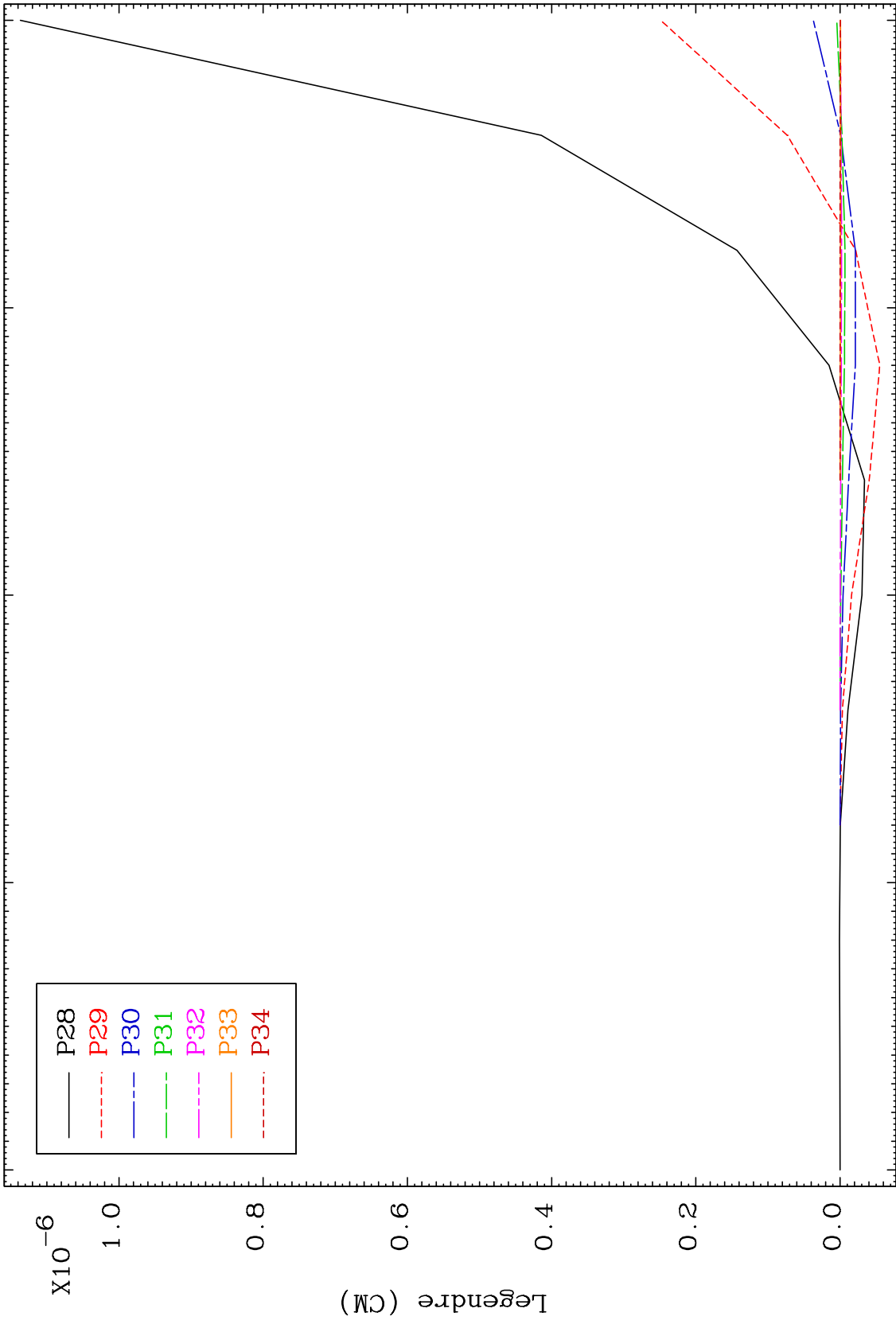
Incident Energy (MeV)

61-Pm-136

MAT 6116

Elastic Legendre Coefficients

61-Pm-136



19

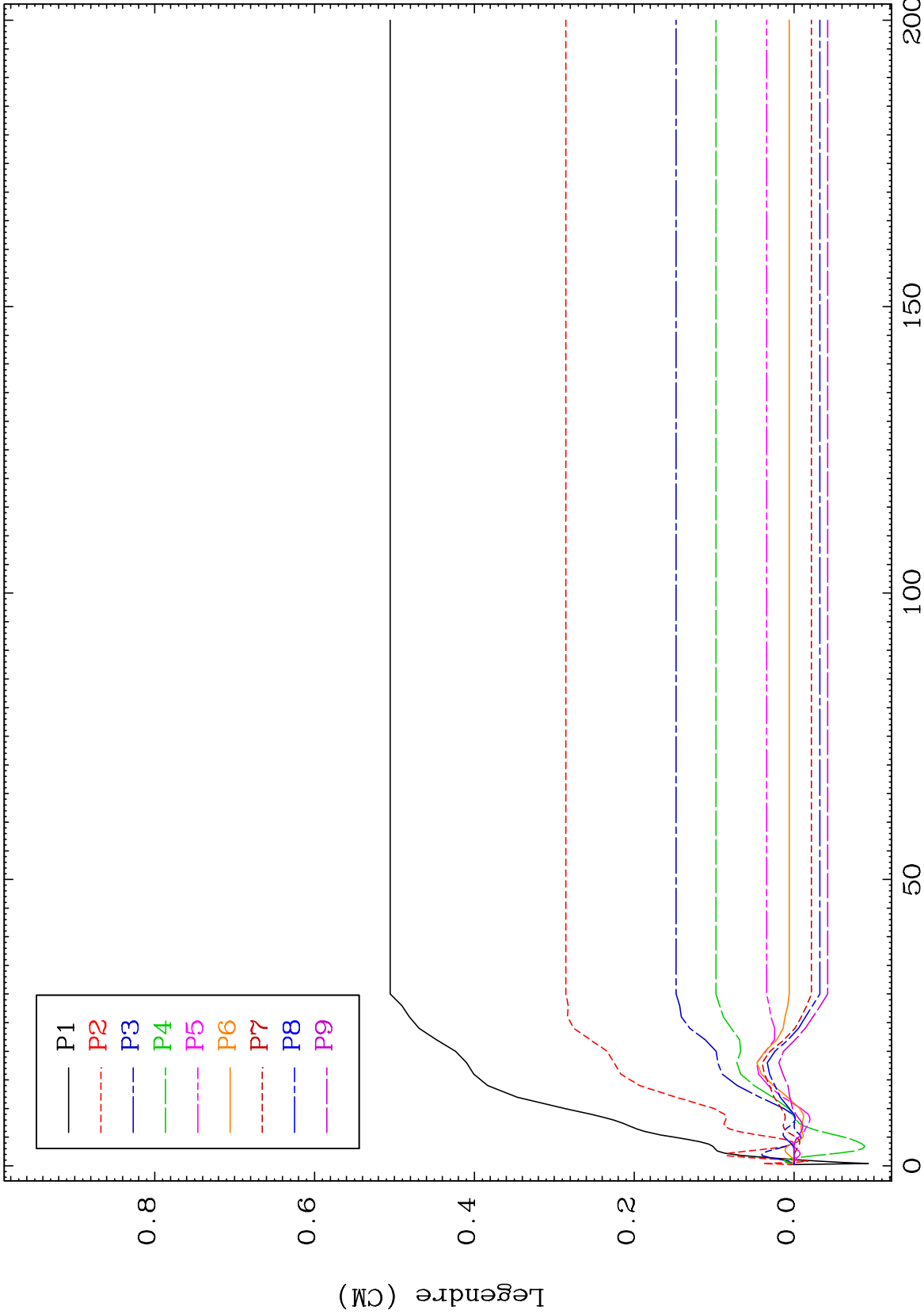
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136

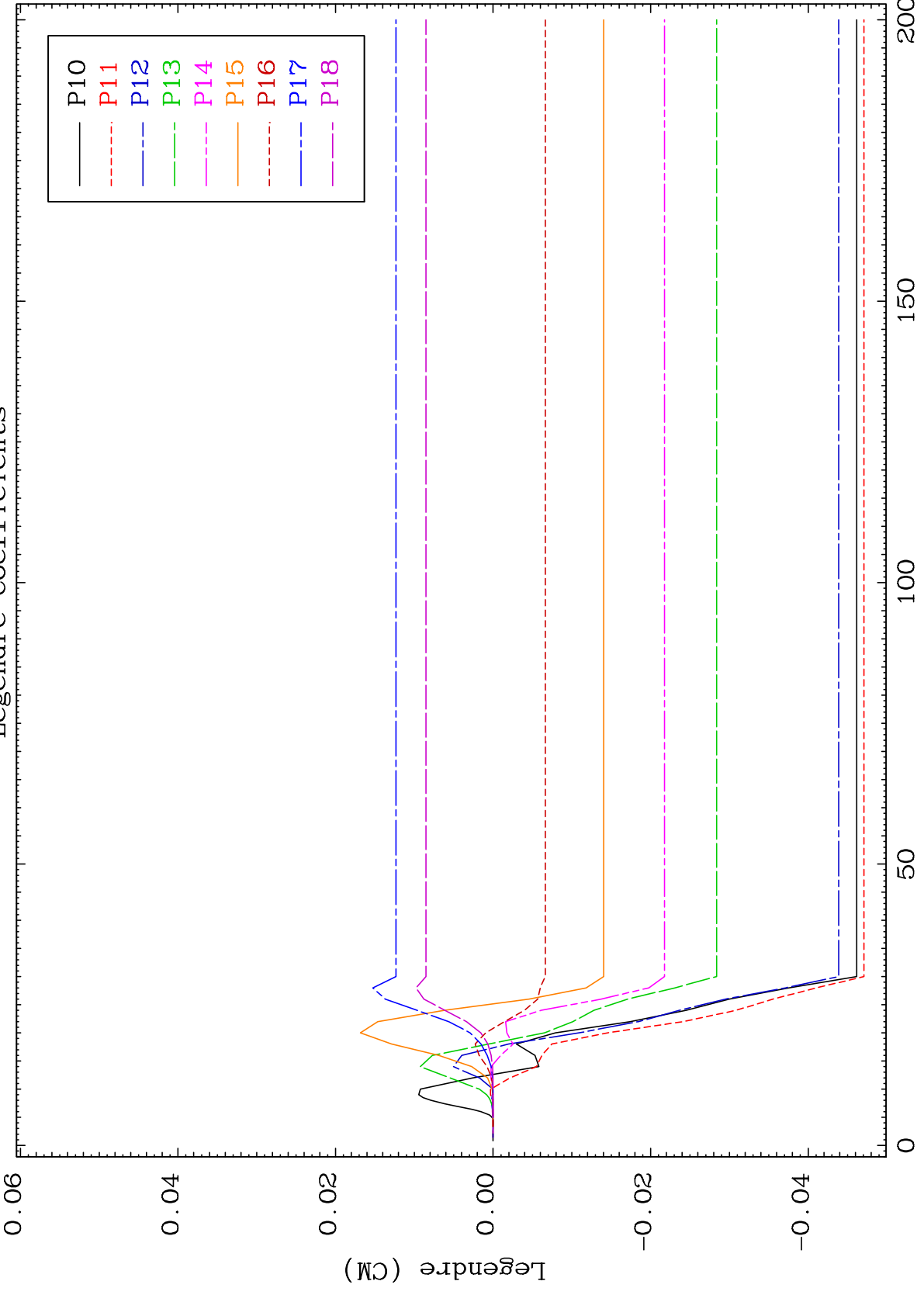


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Incident Energy (MeV)

61-Pm-136

MAT 6116 MT= 51 (n,n') Level Legendre Coefficients 61-Pm-136

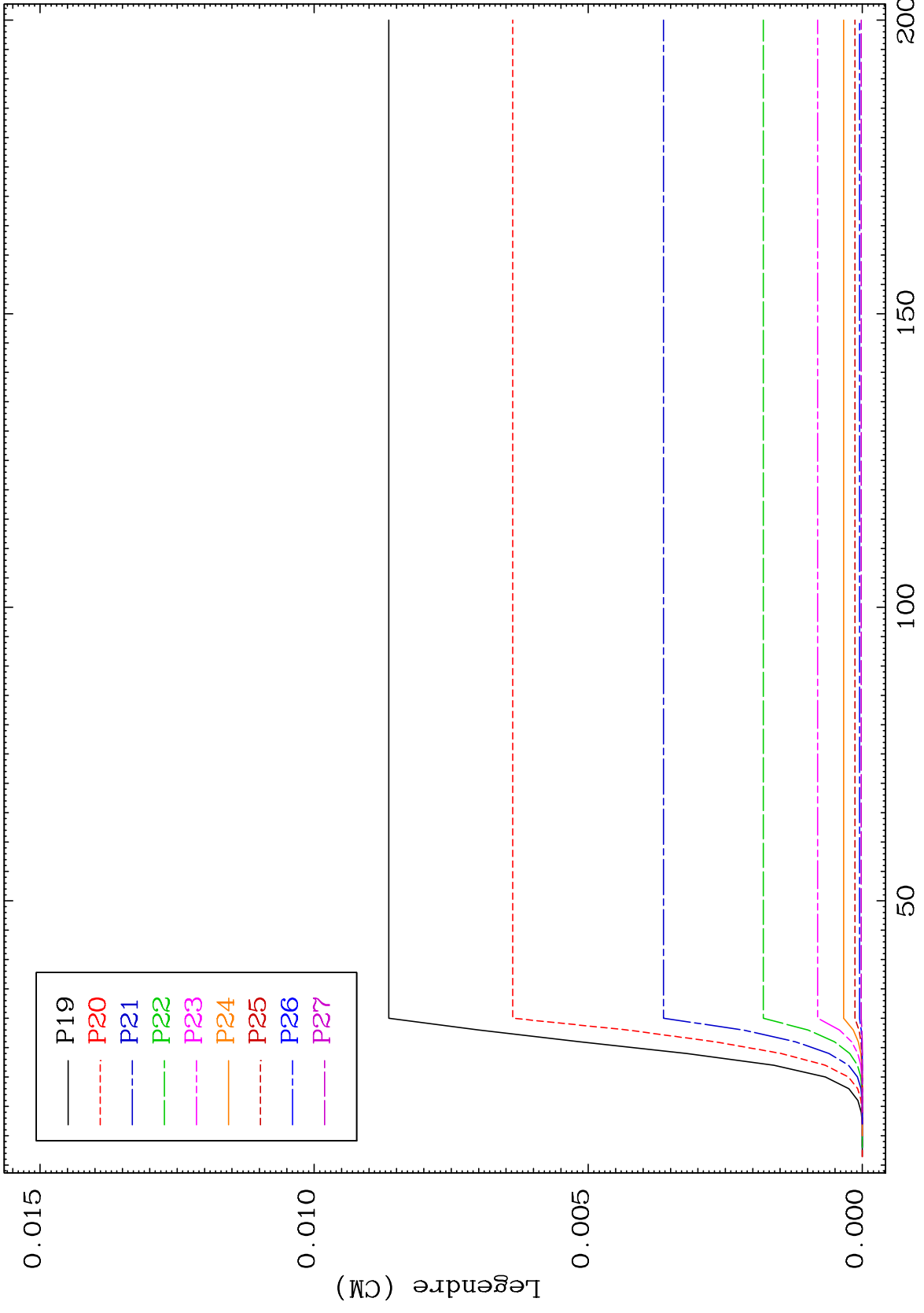


21 61-Pm-136

MAT 6116

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

61-Pm-136



22

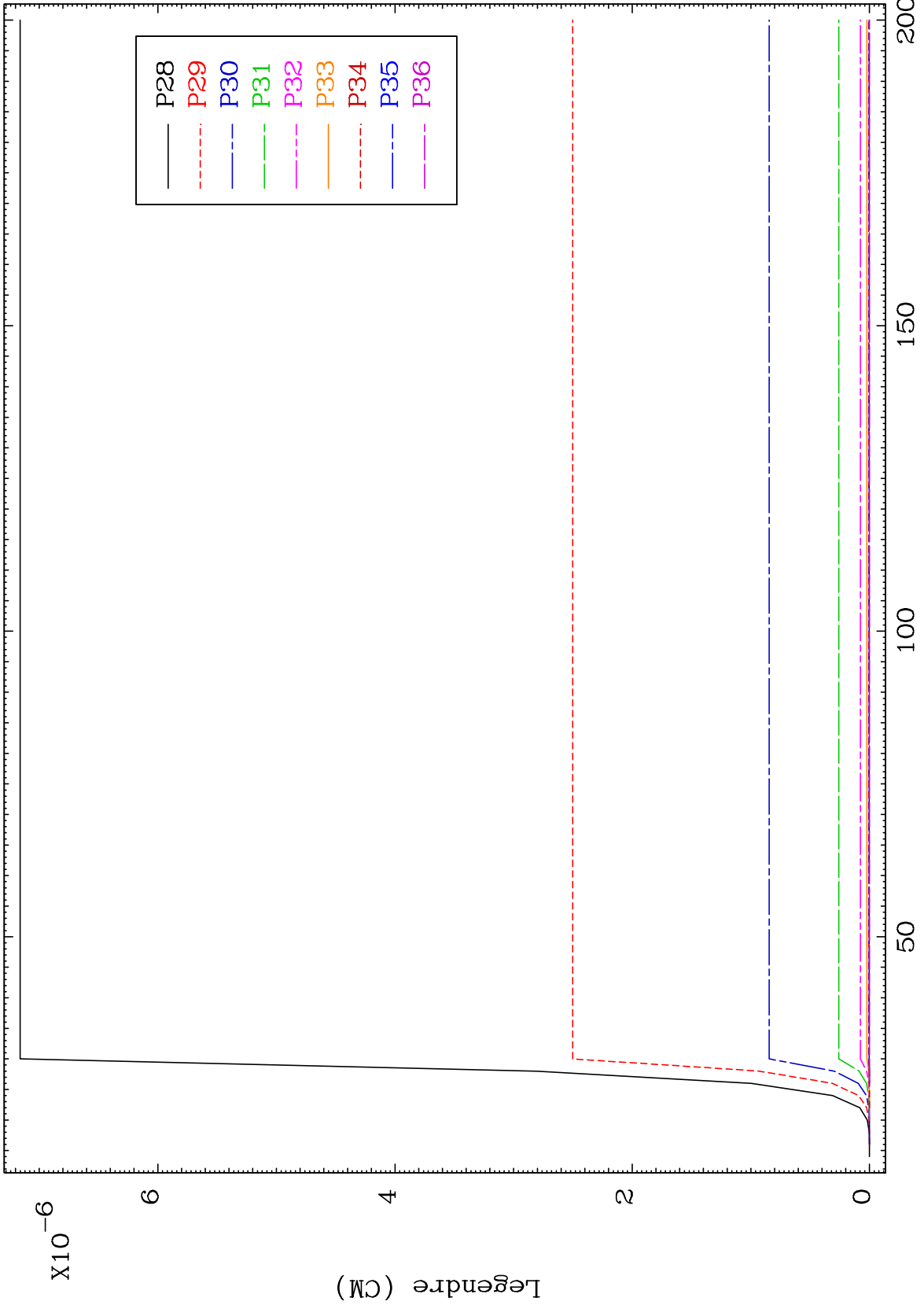
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



23

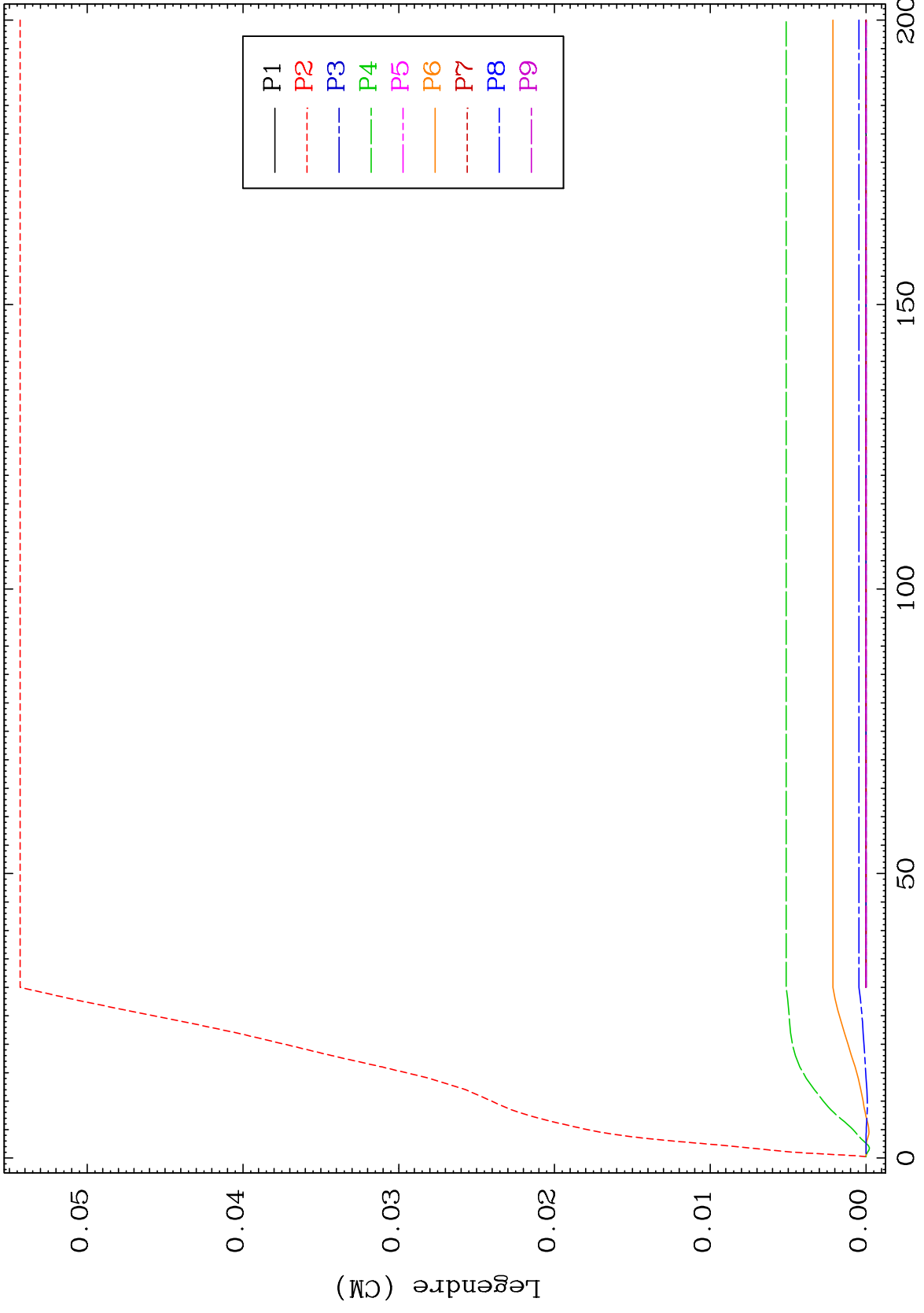
61-Pm-136



MAT 6116

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

61-Pm-136



24

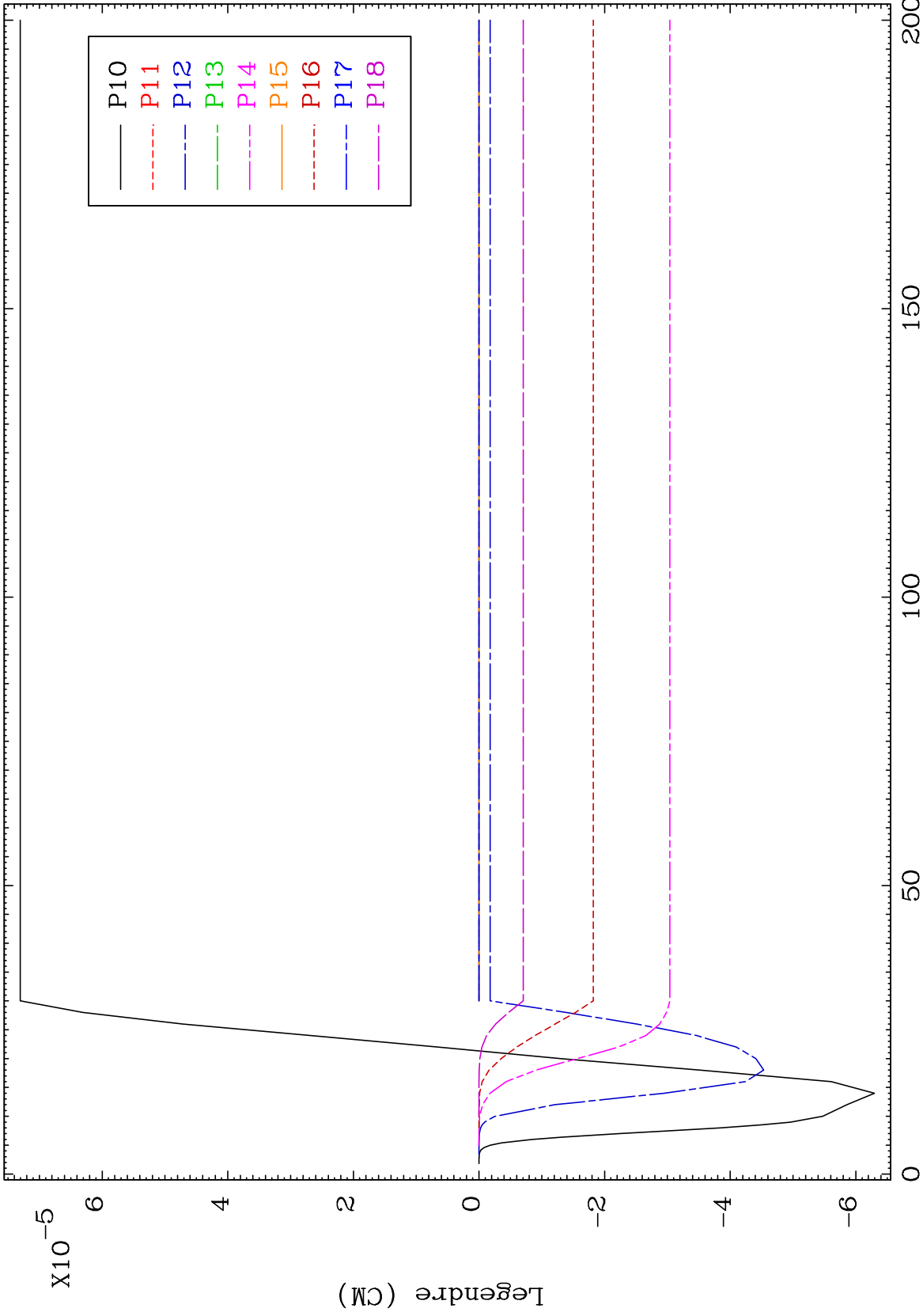
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



25

Incident Energy (MeV)

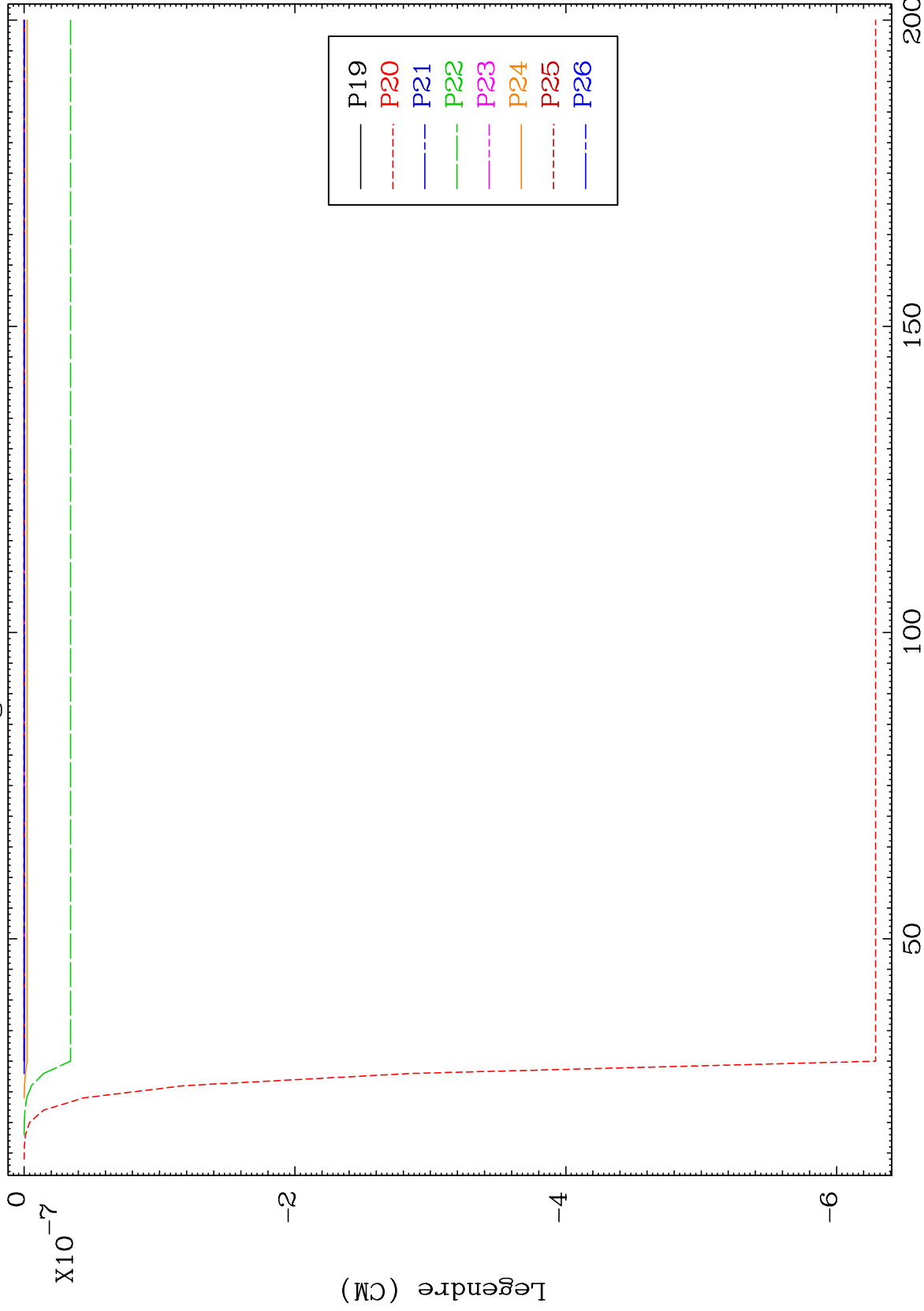
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61-Pm-136

MAT 6116

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

61-Pm-136



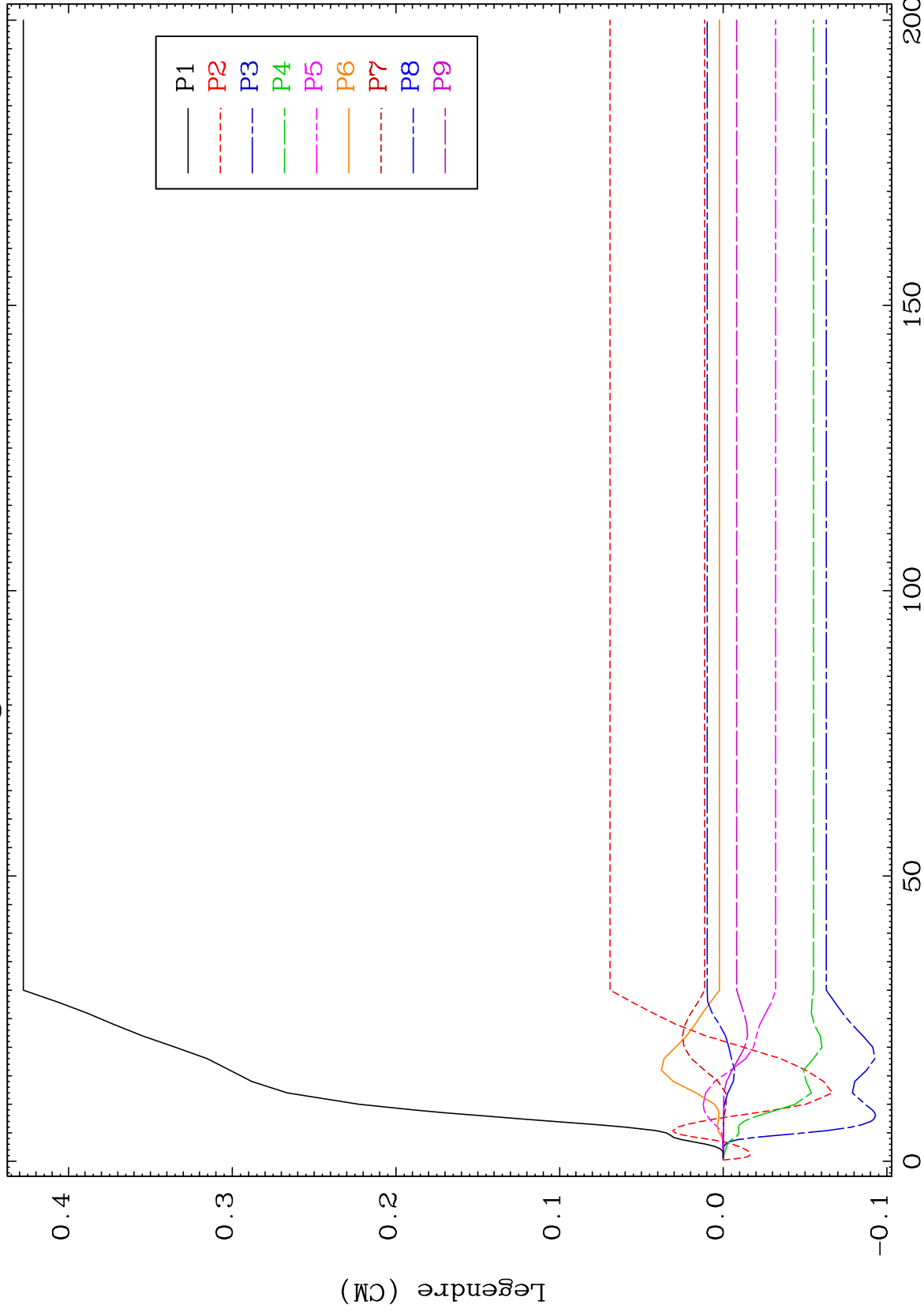
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61-Pm-136

MAT 6116

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

61-Pm-136



27

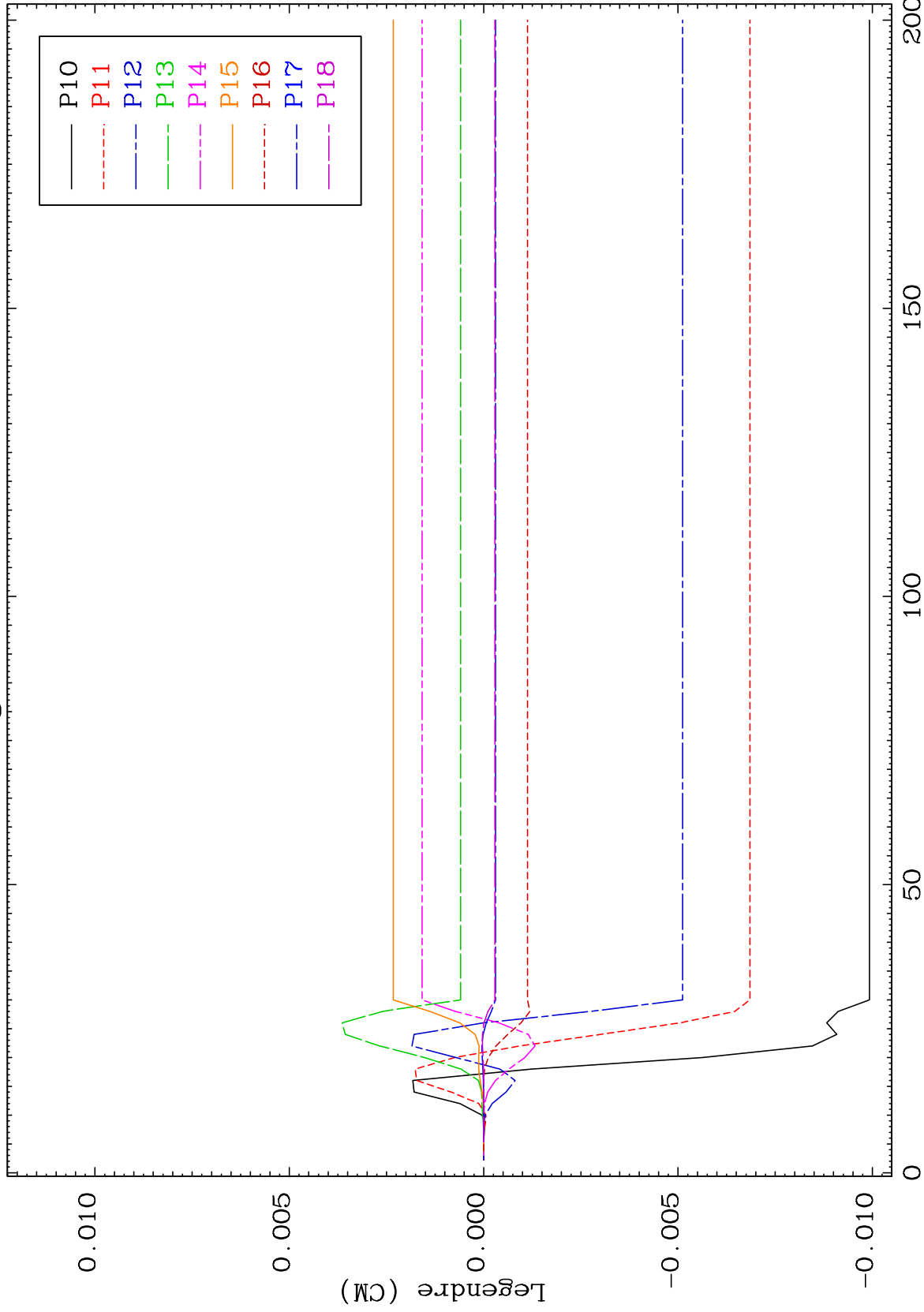
Incident Energy (MeV)

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MAT 6116

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

61-Pm-136



28

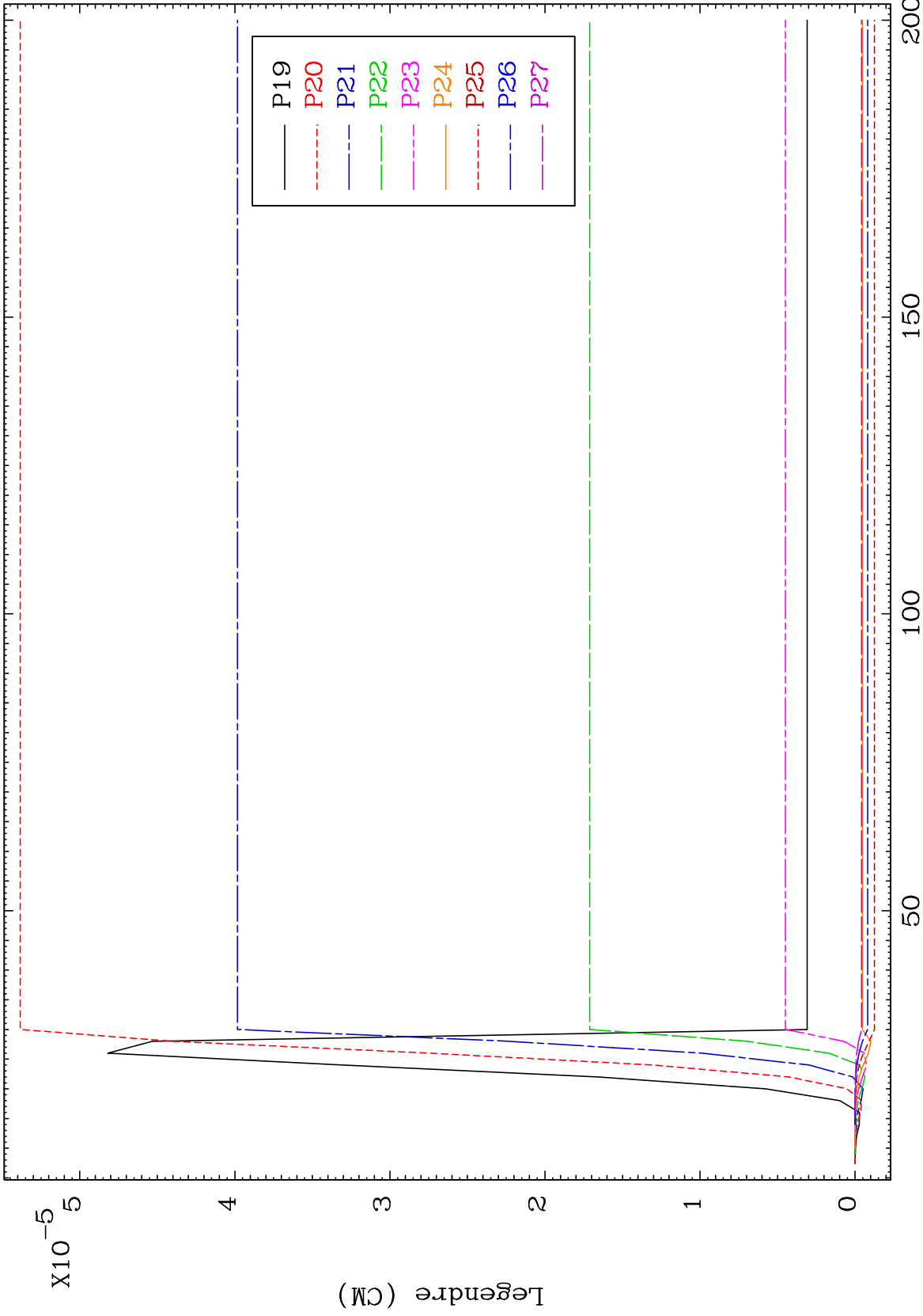
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



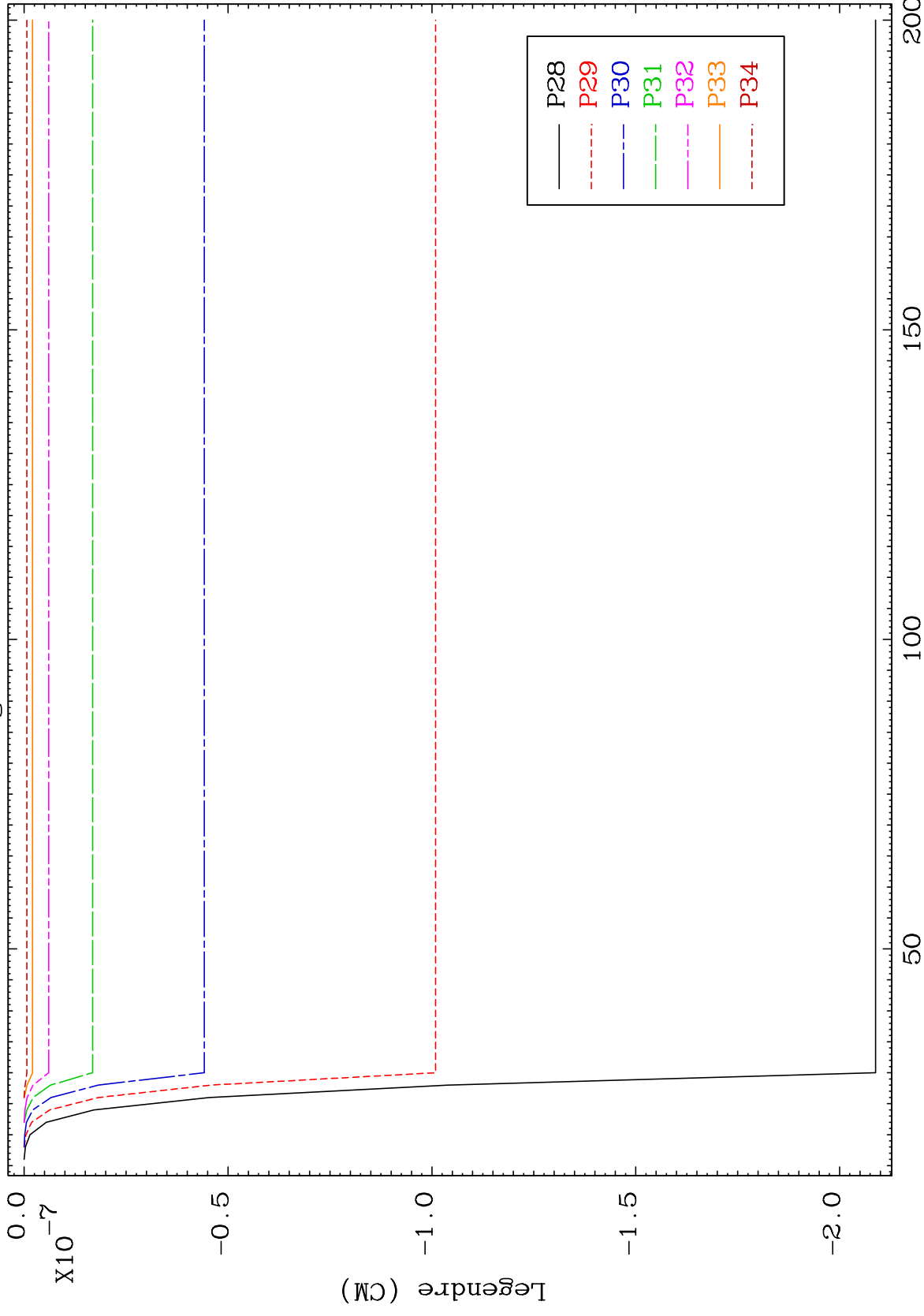
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61-Pm-136

MAT 6116

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

61-Pm-136

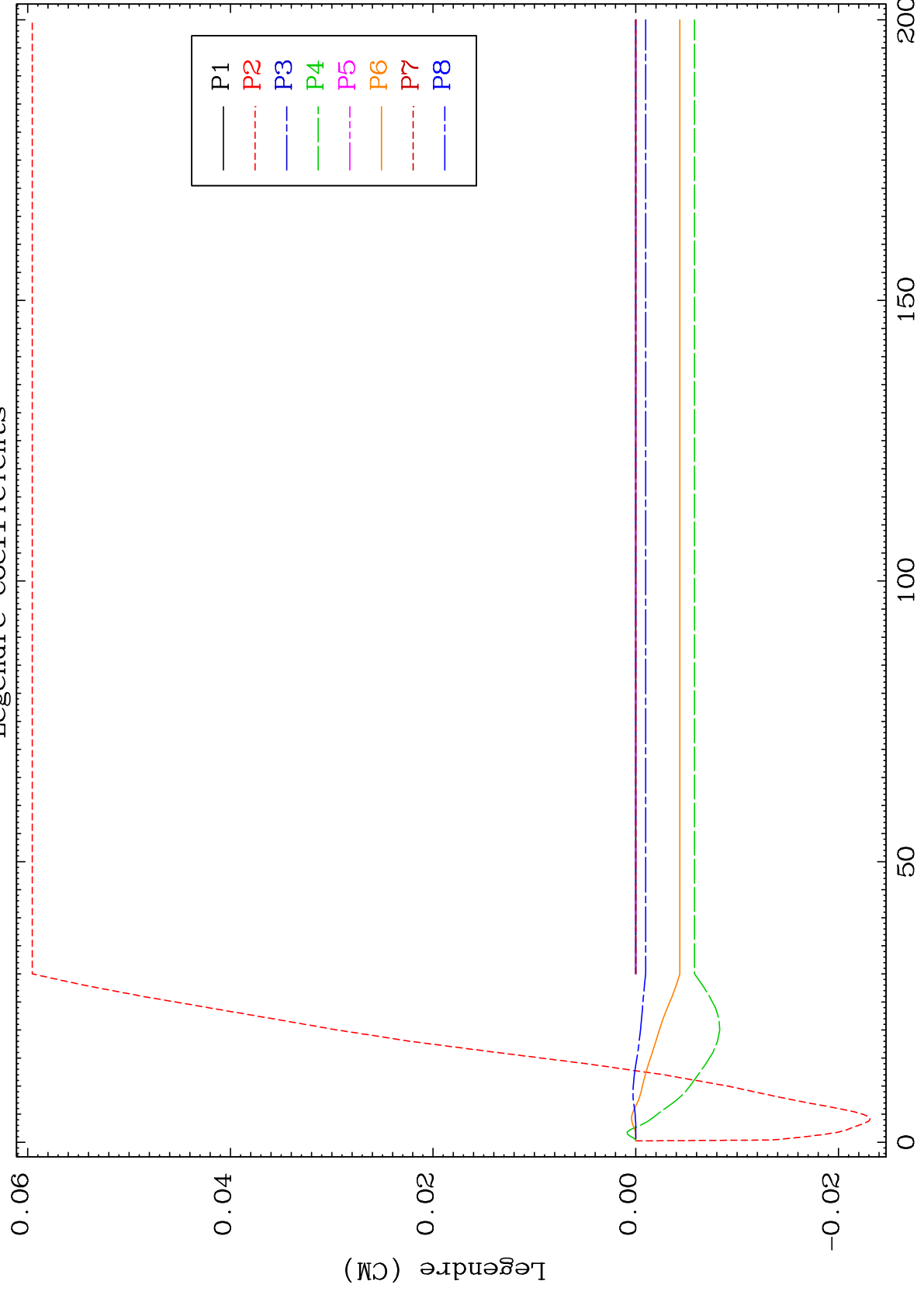


61-Pm-136

Incident Energy (MeV)

30

MAT 6116 MT= 54 (n,n') Level Legendre Coefficients 61-Pm-136



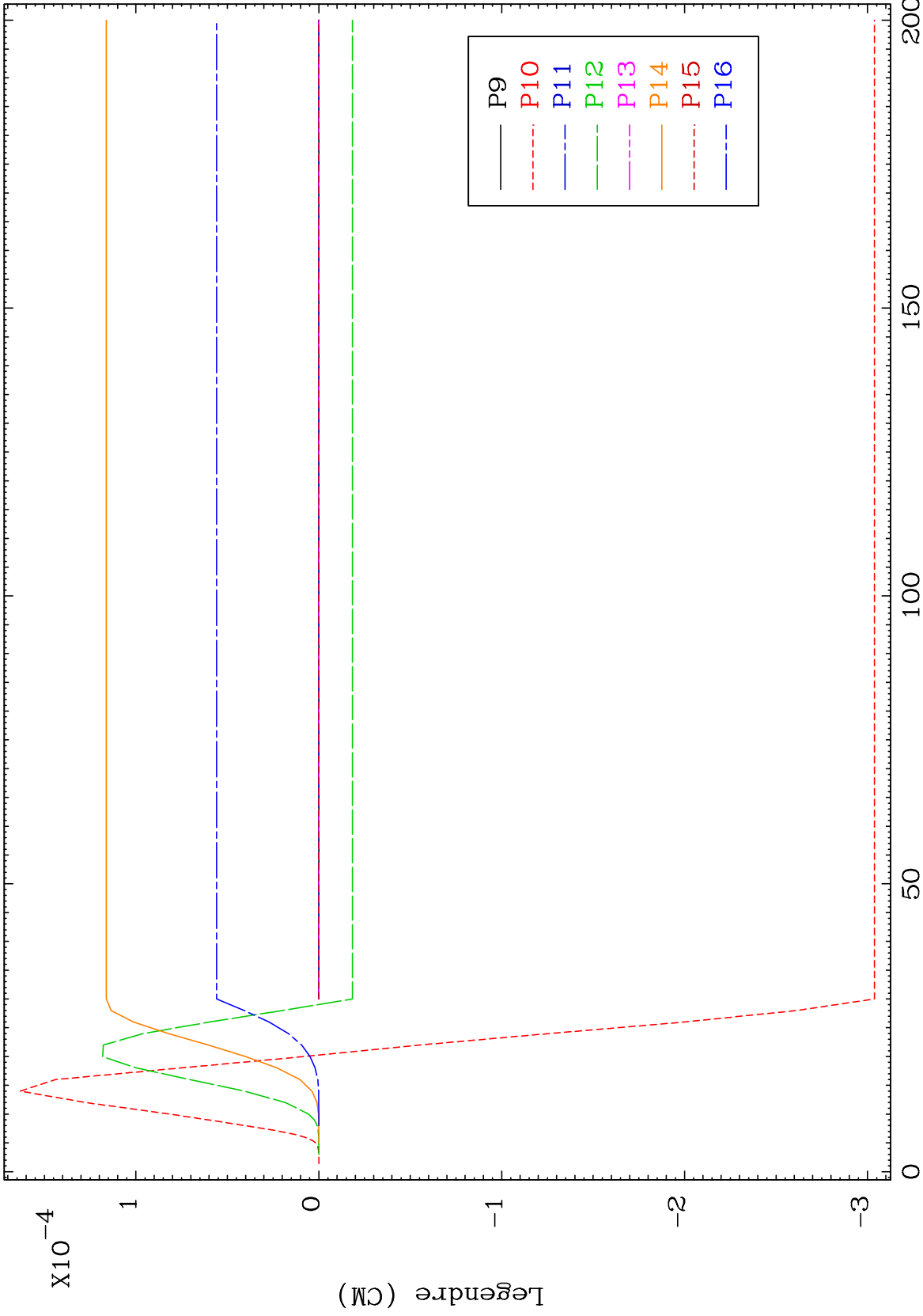
31 61-Pm-136



MAT 6116

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

61-Pm-136



32

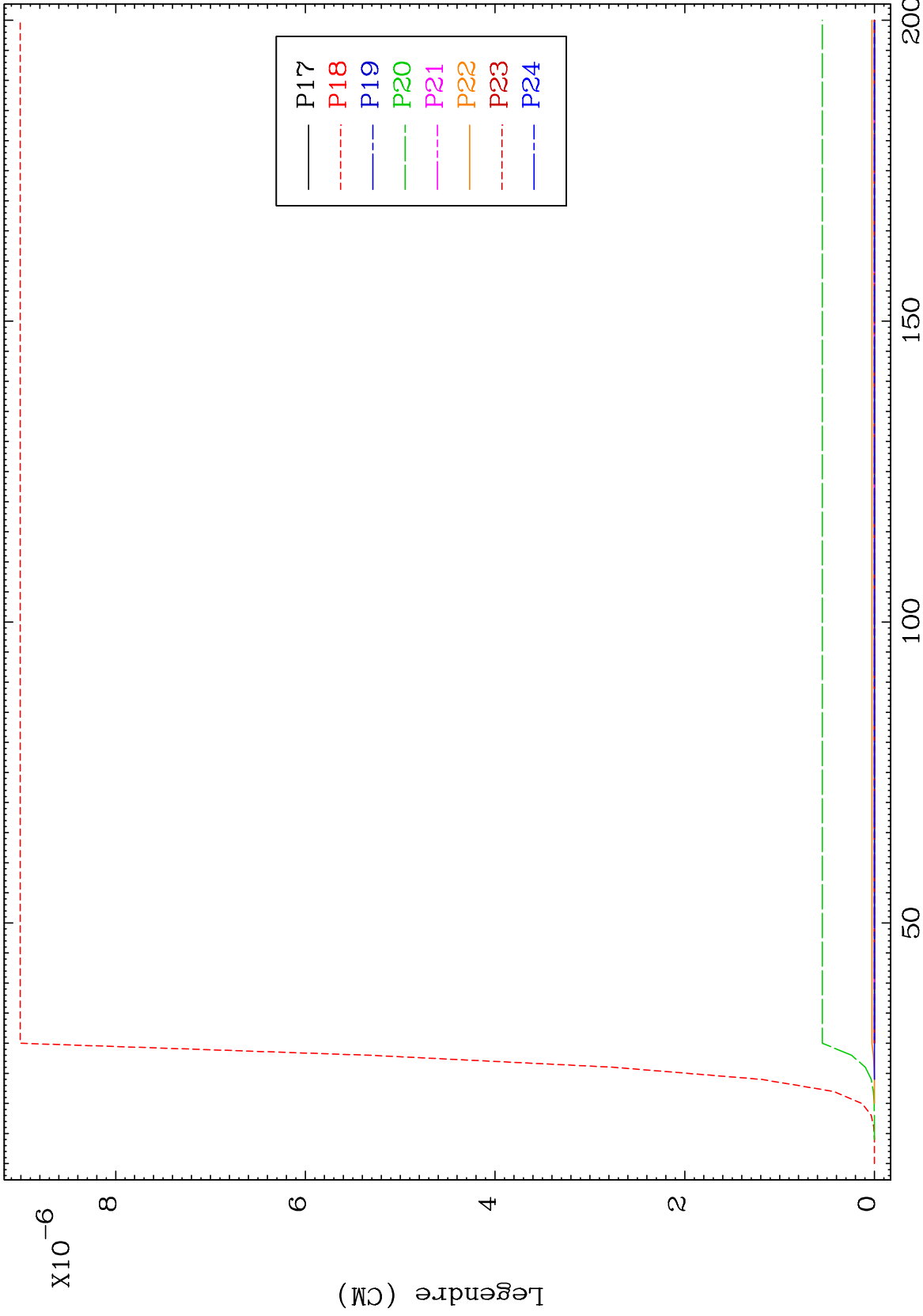
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



33

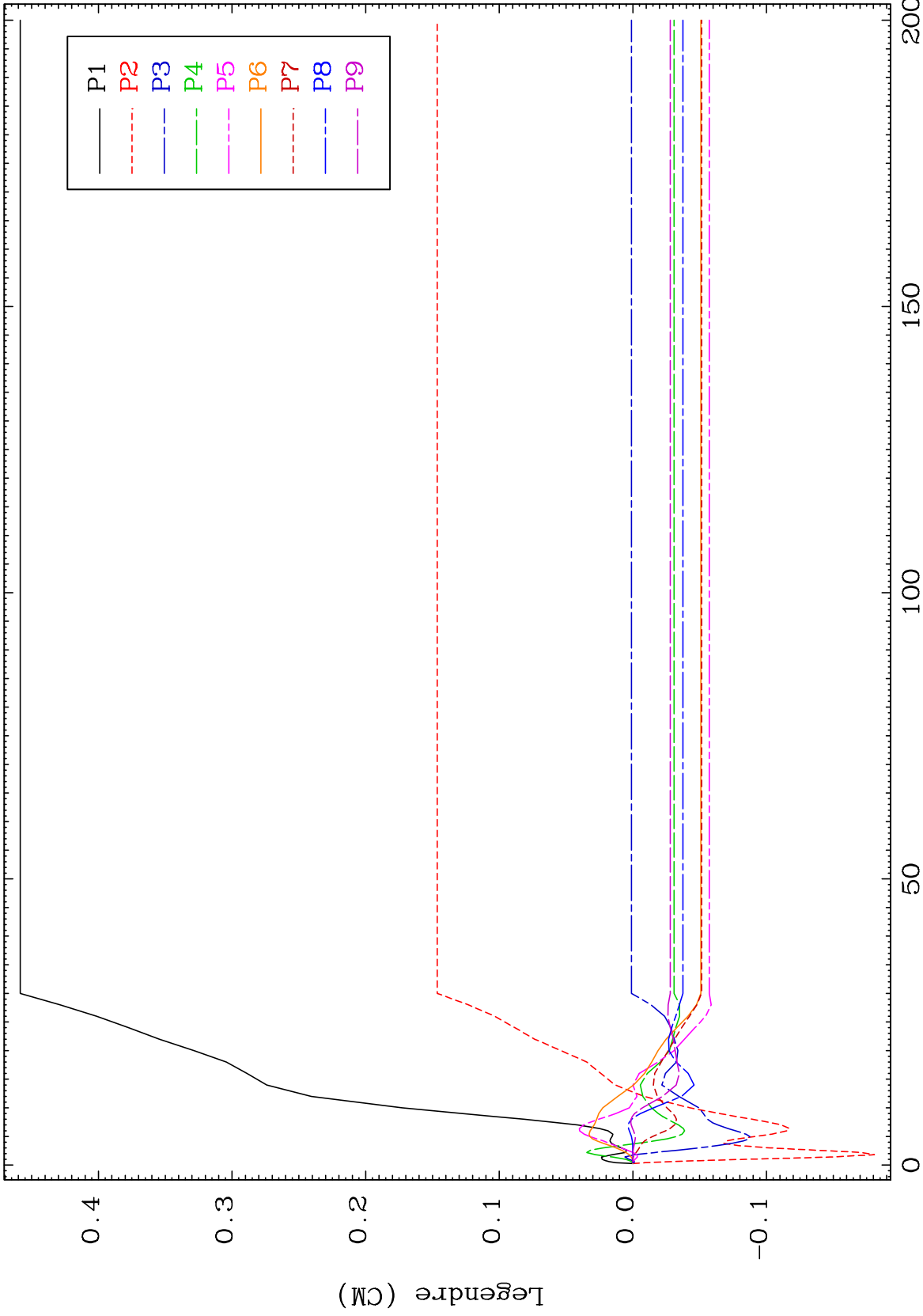
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



34

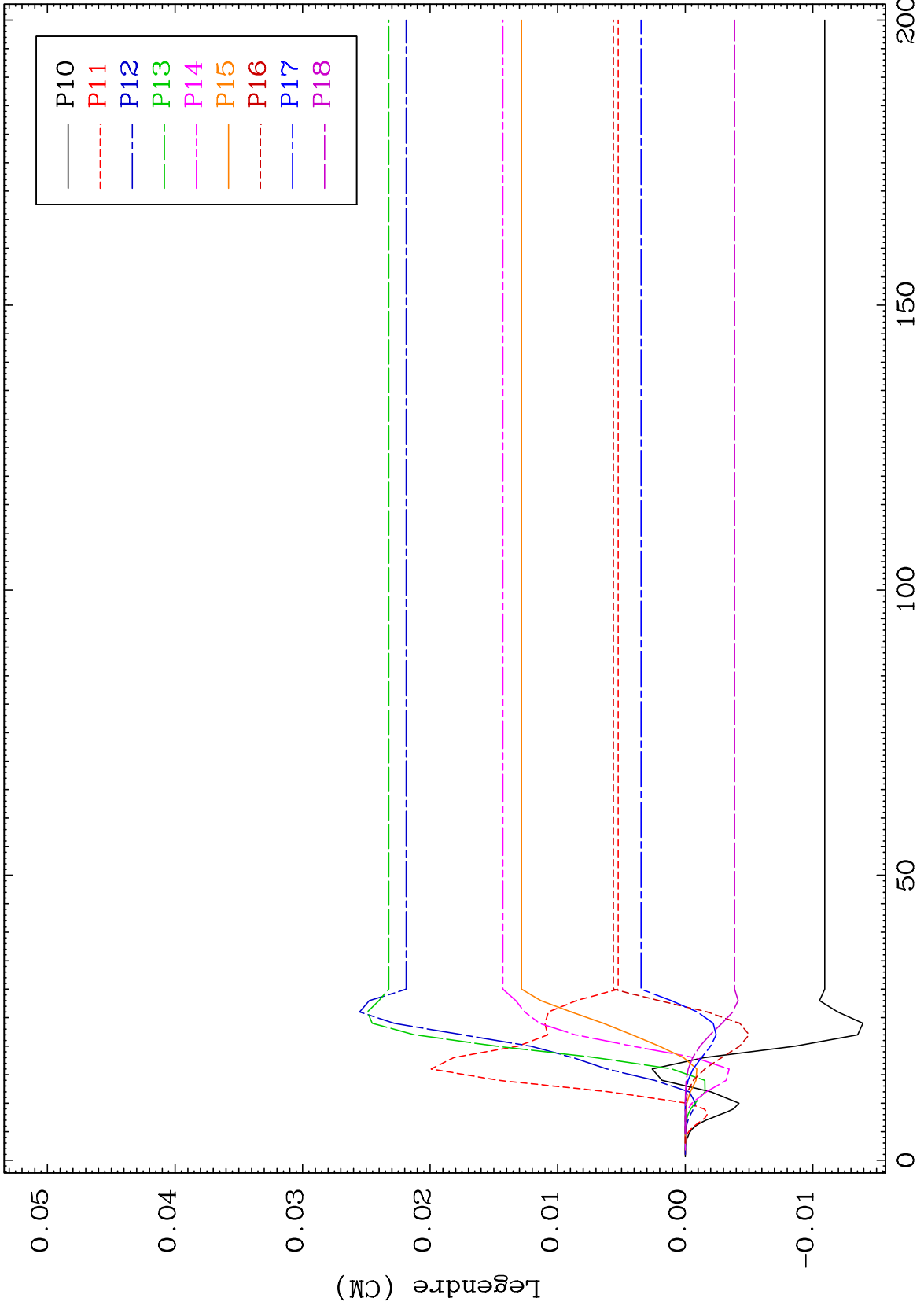
Incident Energy (MeV)

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MAT 6116

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

61-Pm-136



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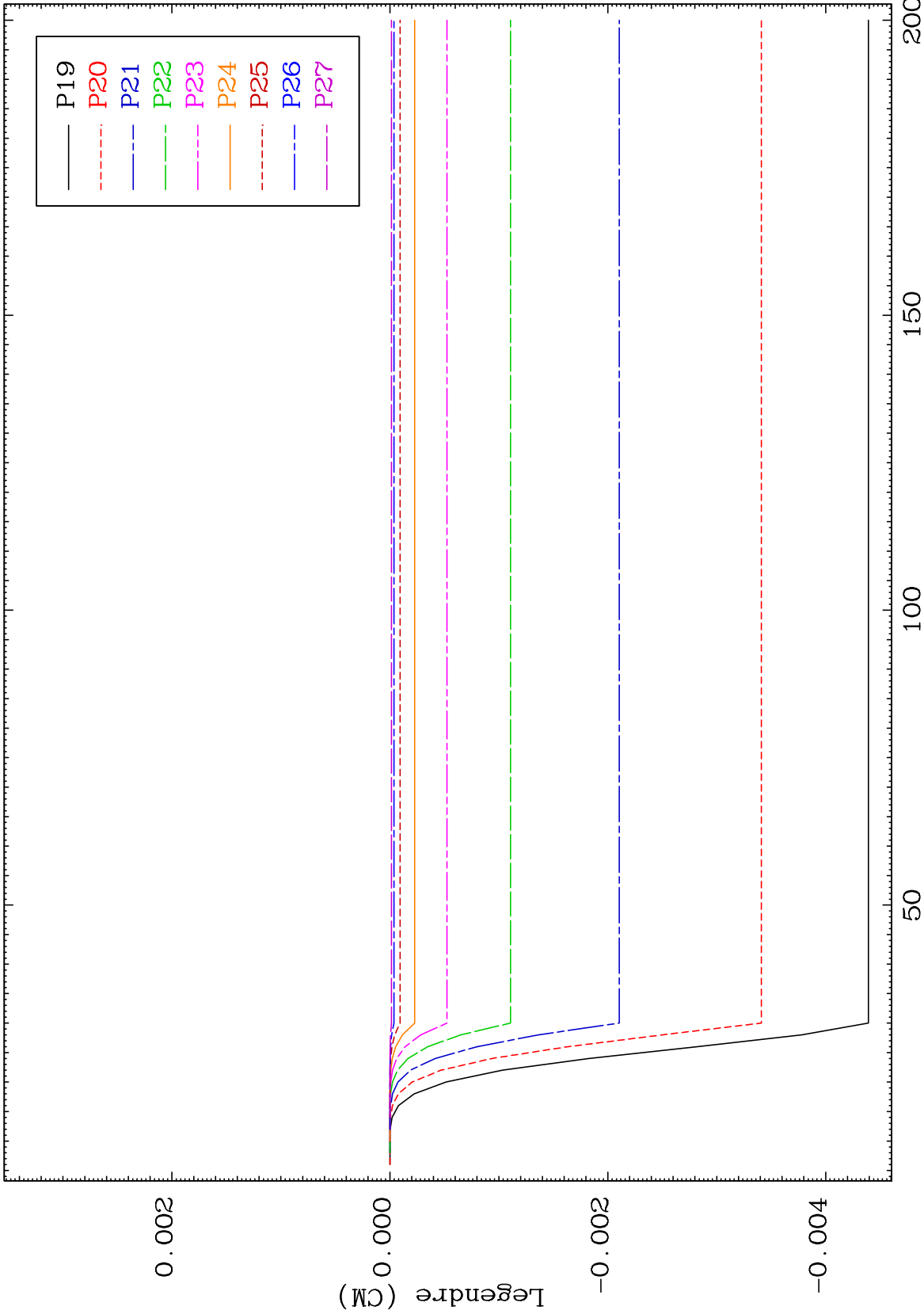
Incident Energy (MeV)

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MAT 6116

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

61-Pm-136



36

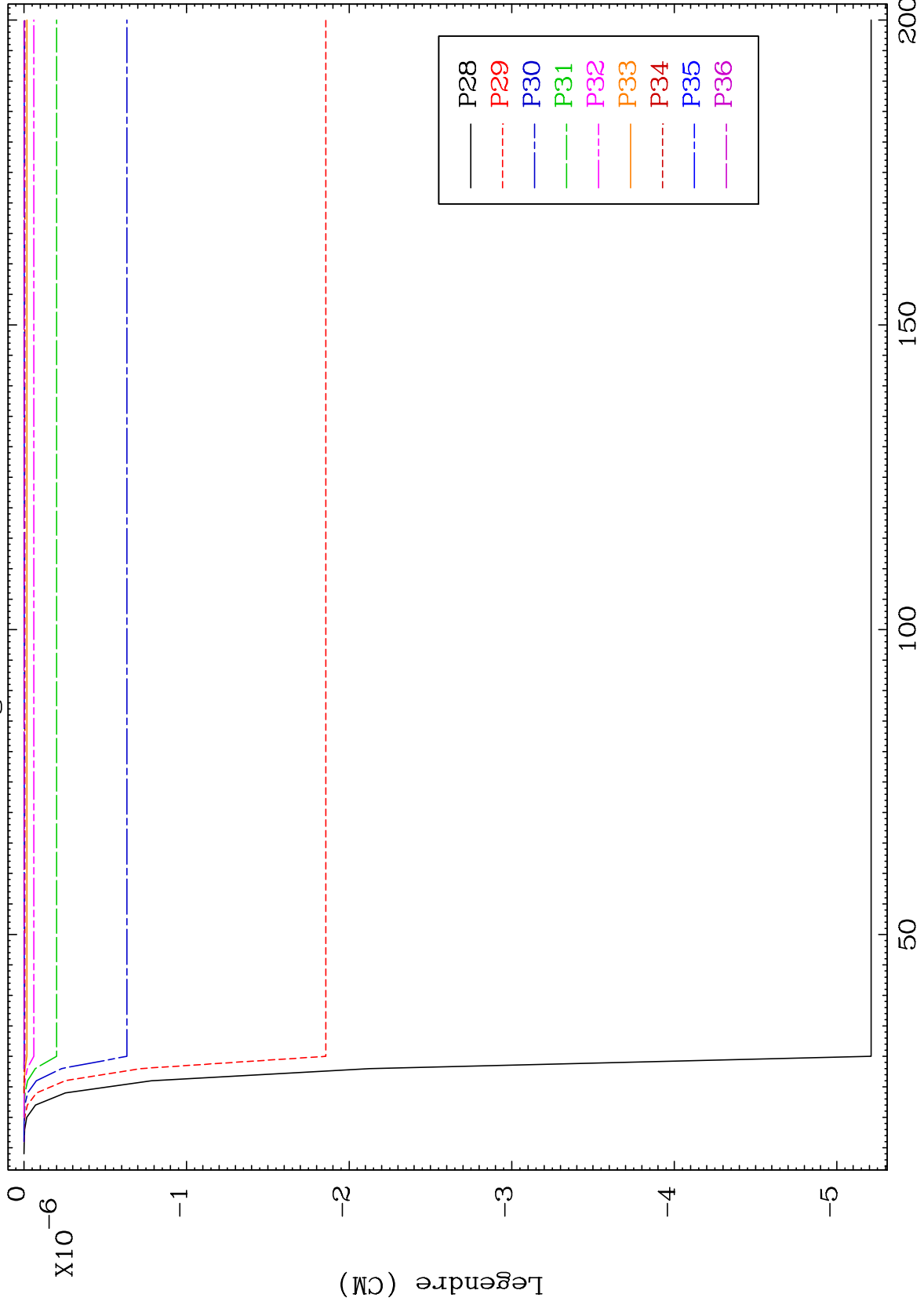
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



61-Pm-136

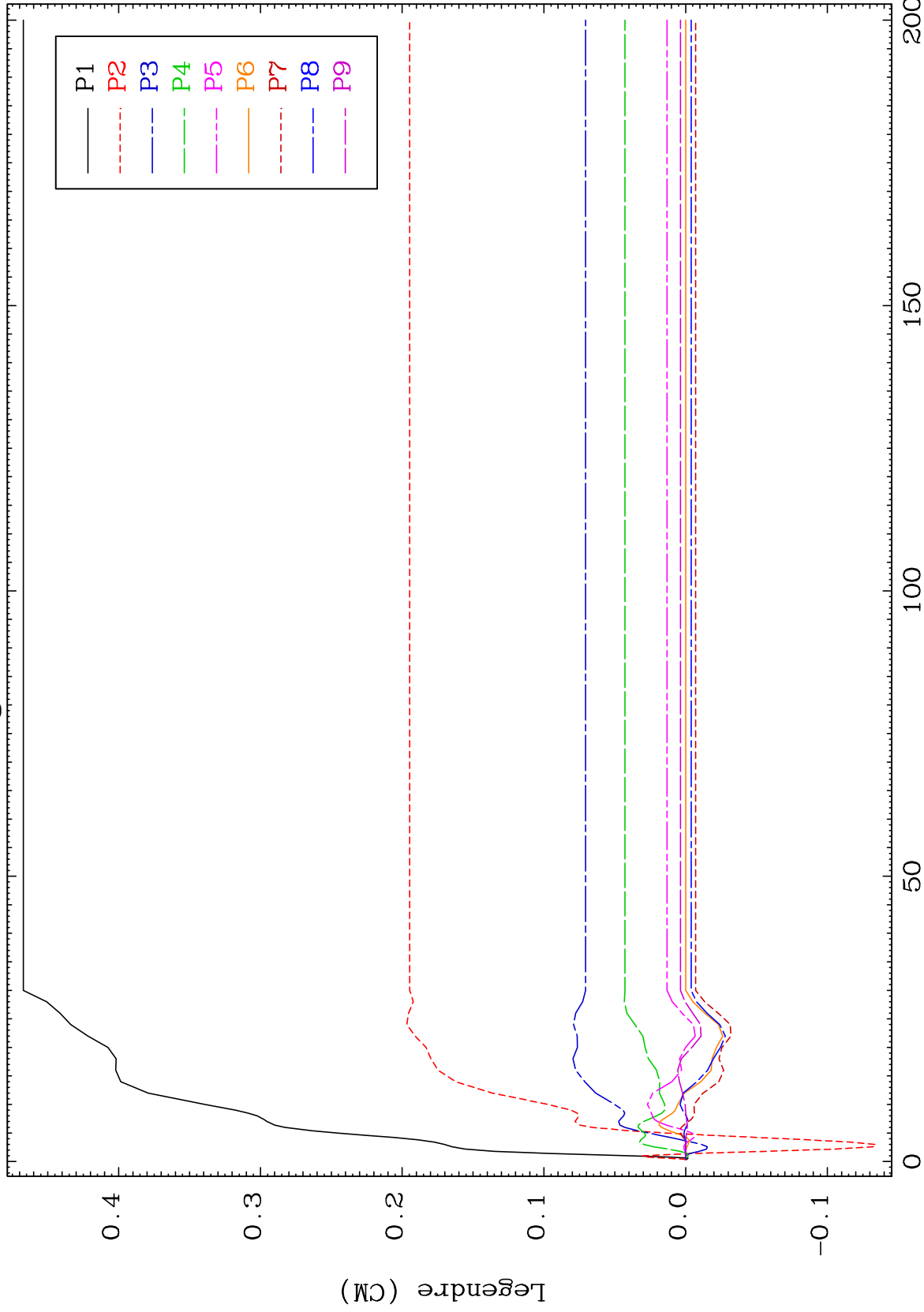
Incident Energy (MeV)

37

MAT 6116

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

61-Pm-136



38

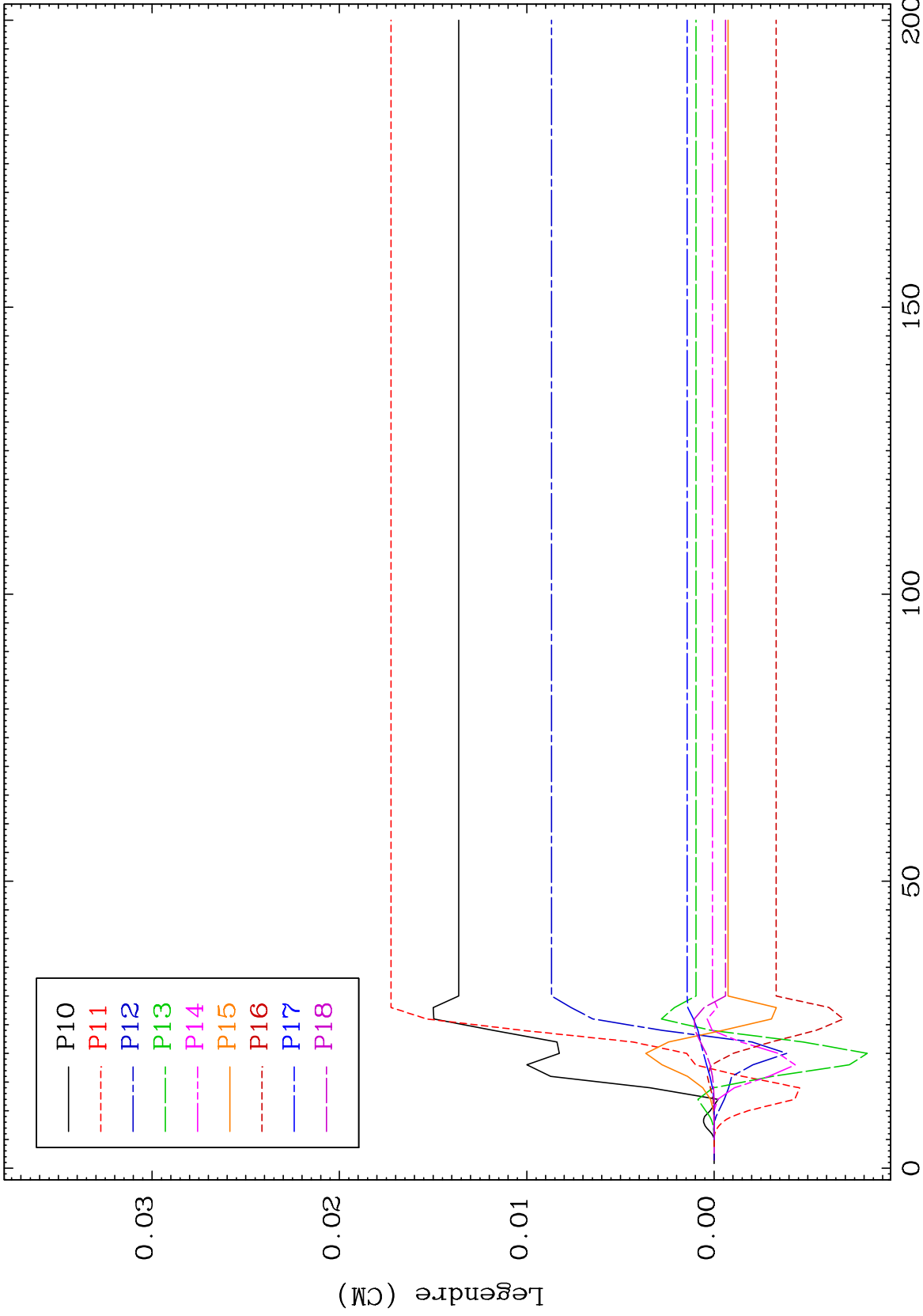
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



39

Incident Energy (MeV)

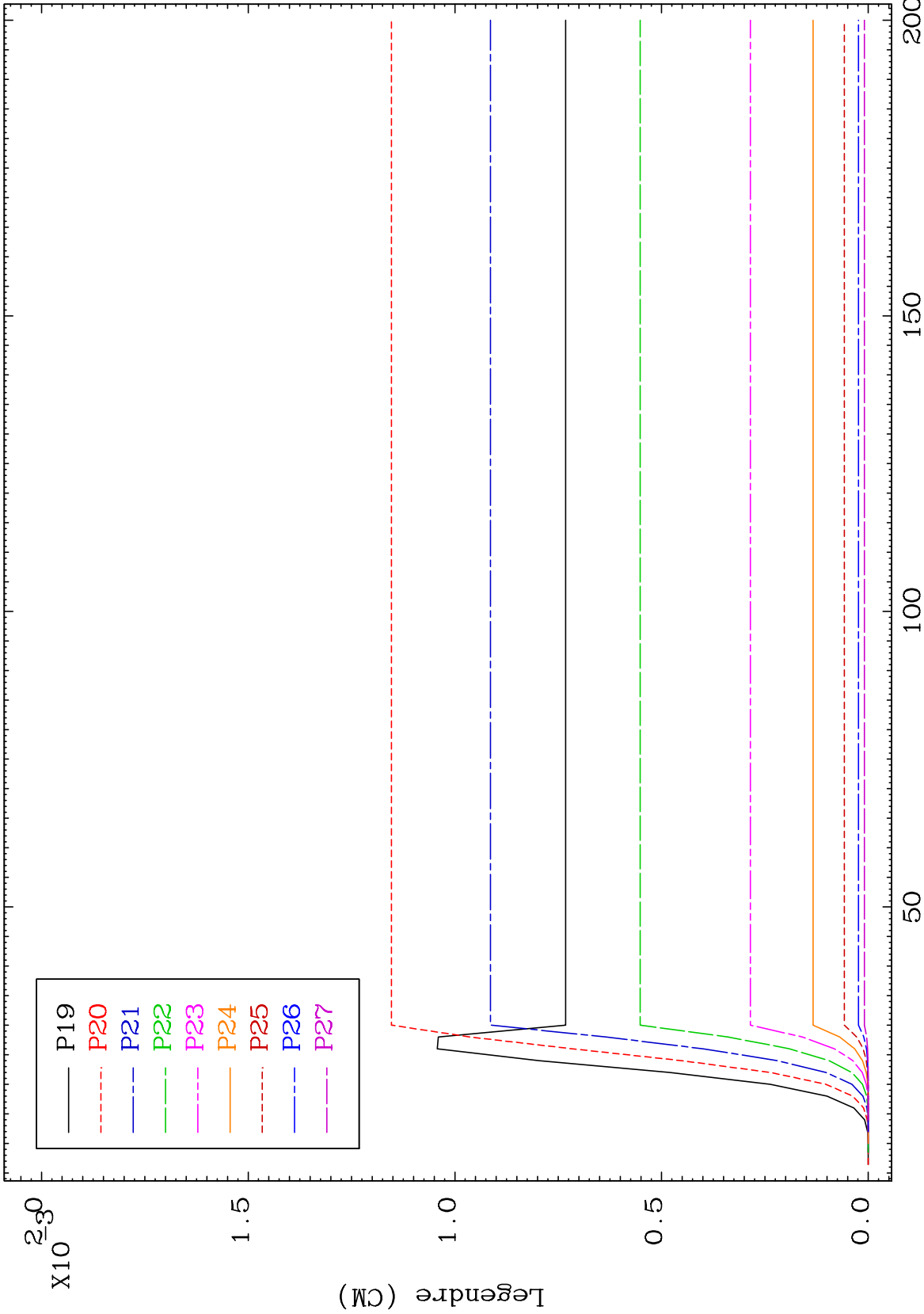
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MAT 6116

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

61-Pm-136



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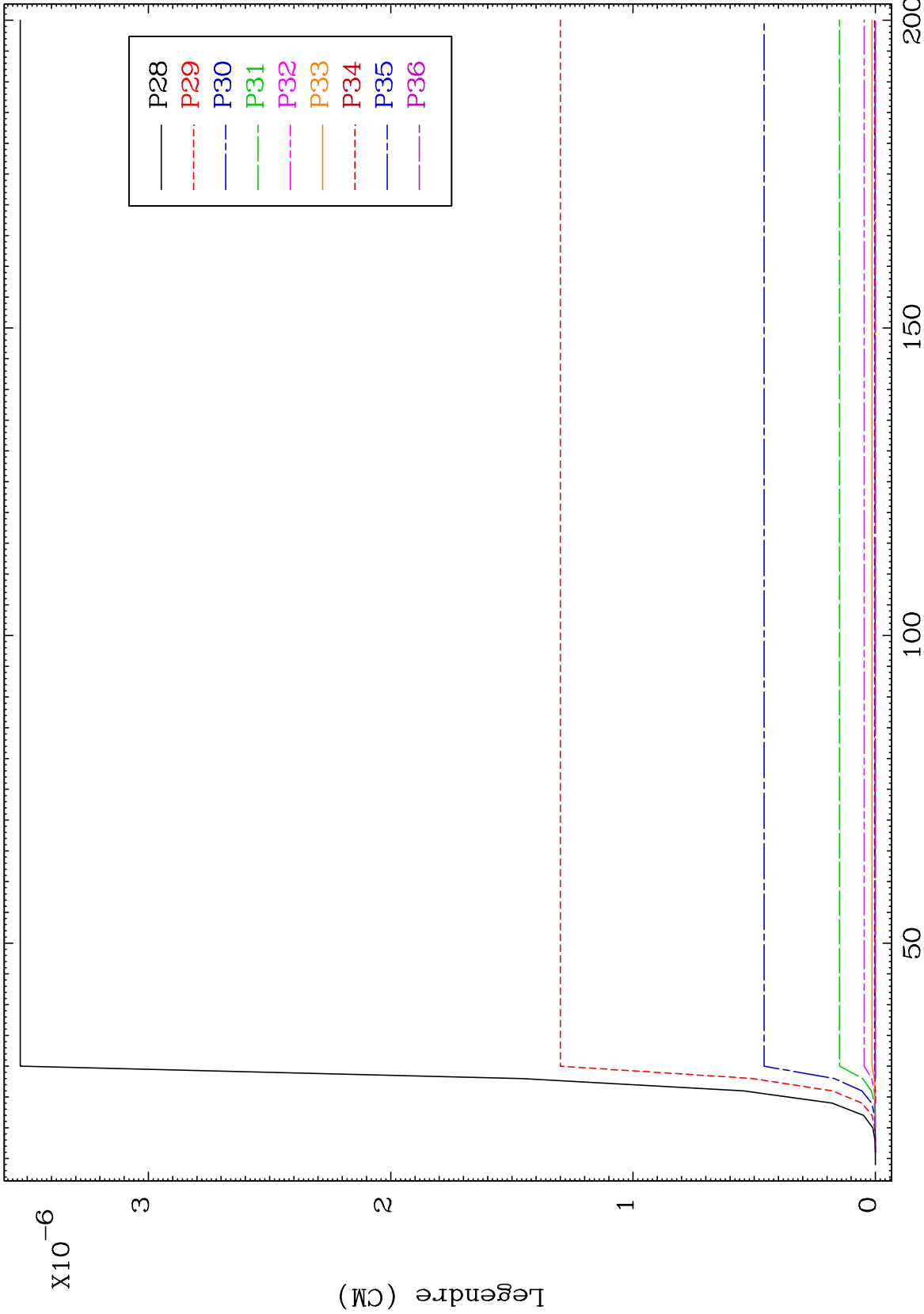
Incident Energy (MeV)

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MAT 6116

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

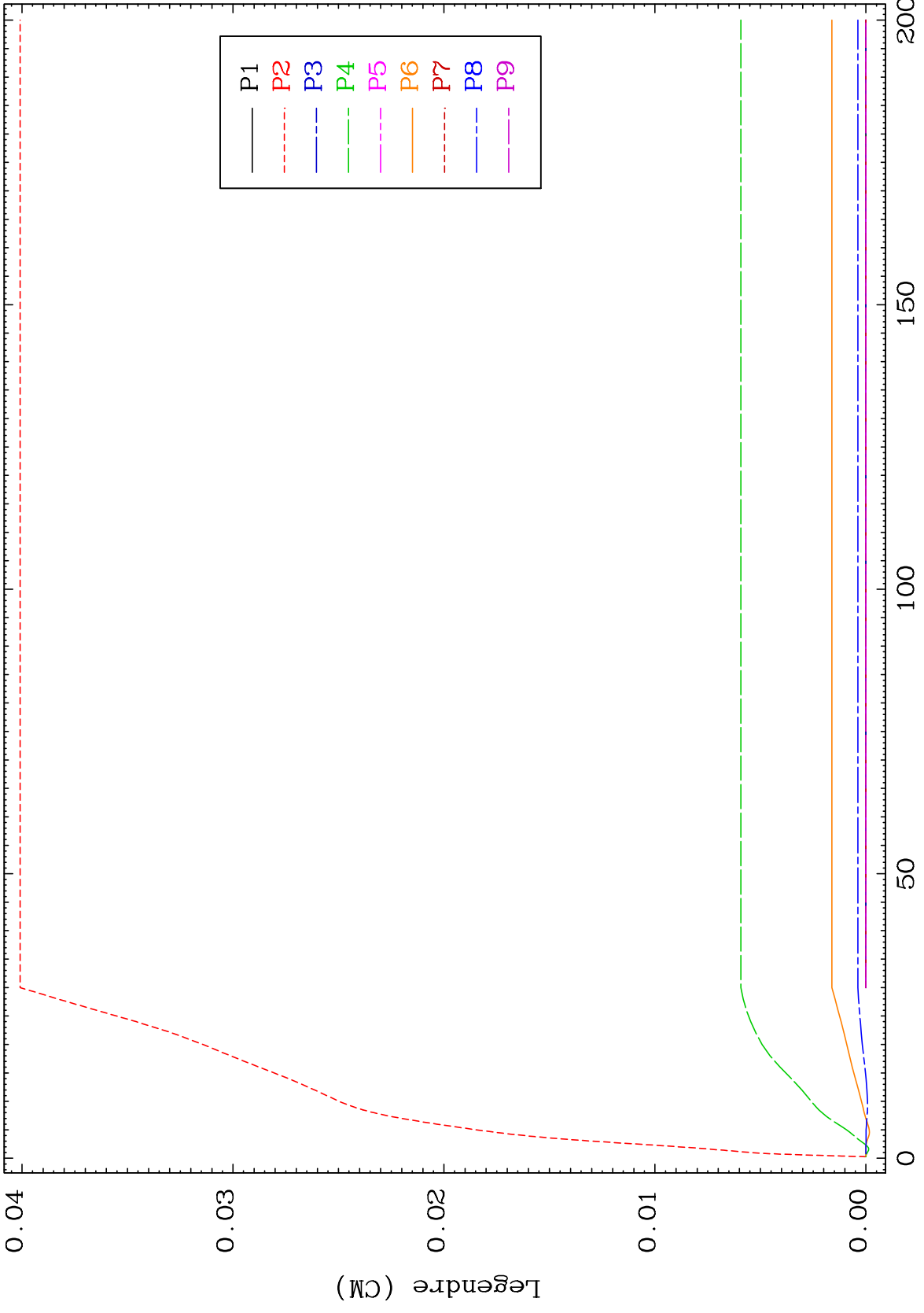
61-Pm-136



41

61-Pm-136

MAT 6116 MT= 57 (n,n') Level Legendre Coefficients 61-Pm-136

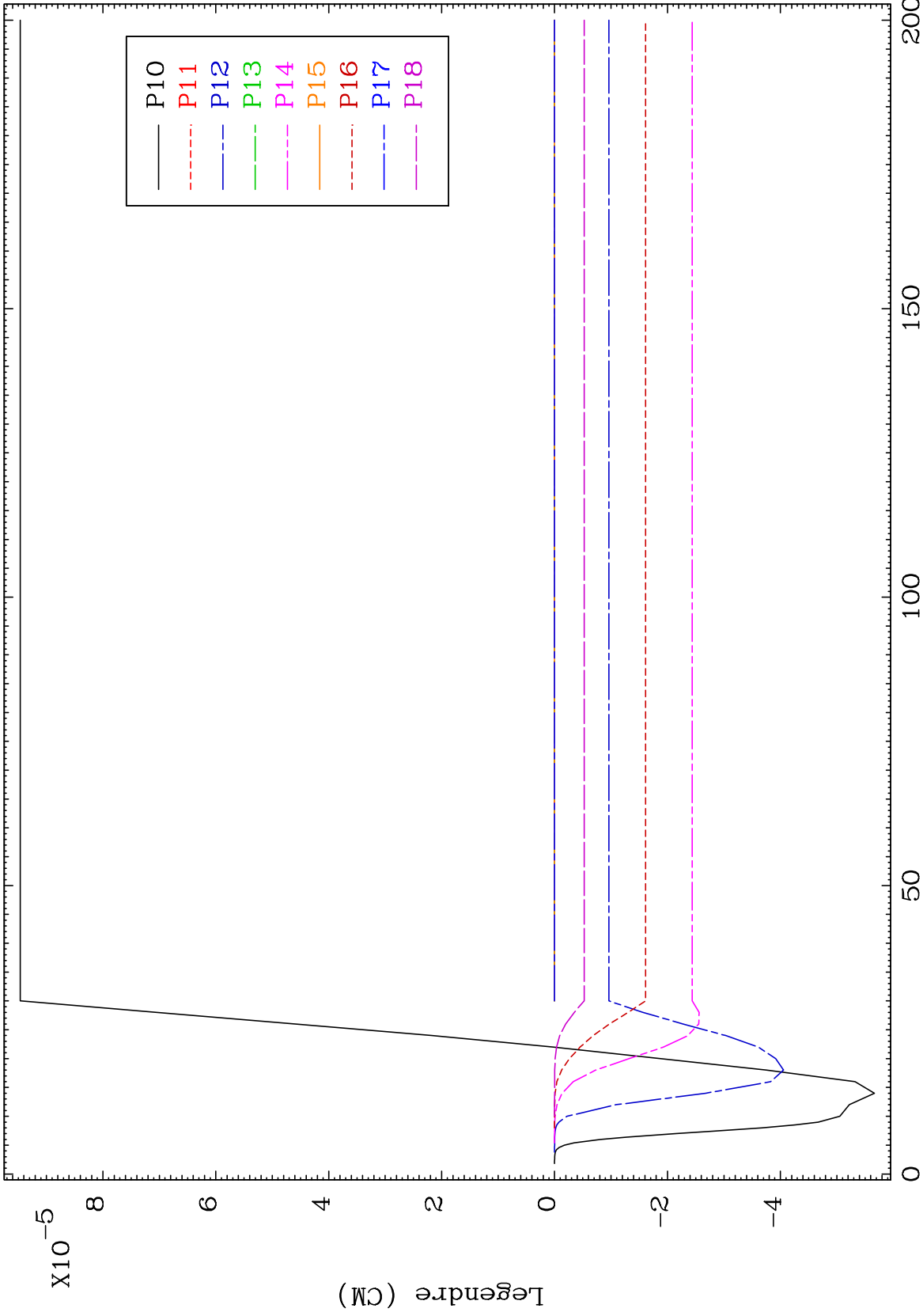


42 61-Pm-136

MAT 6116

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

61-Pm-136



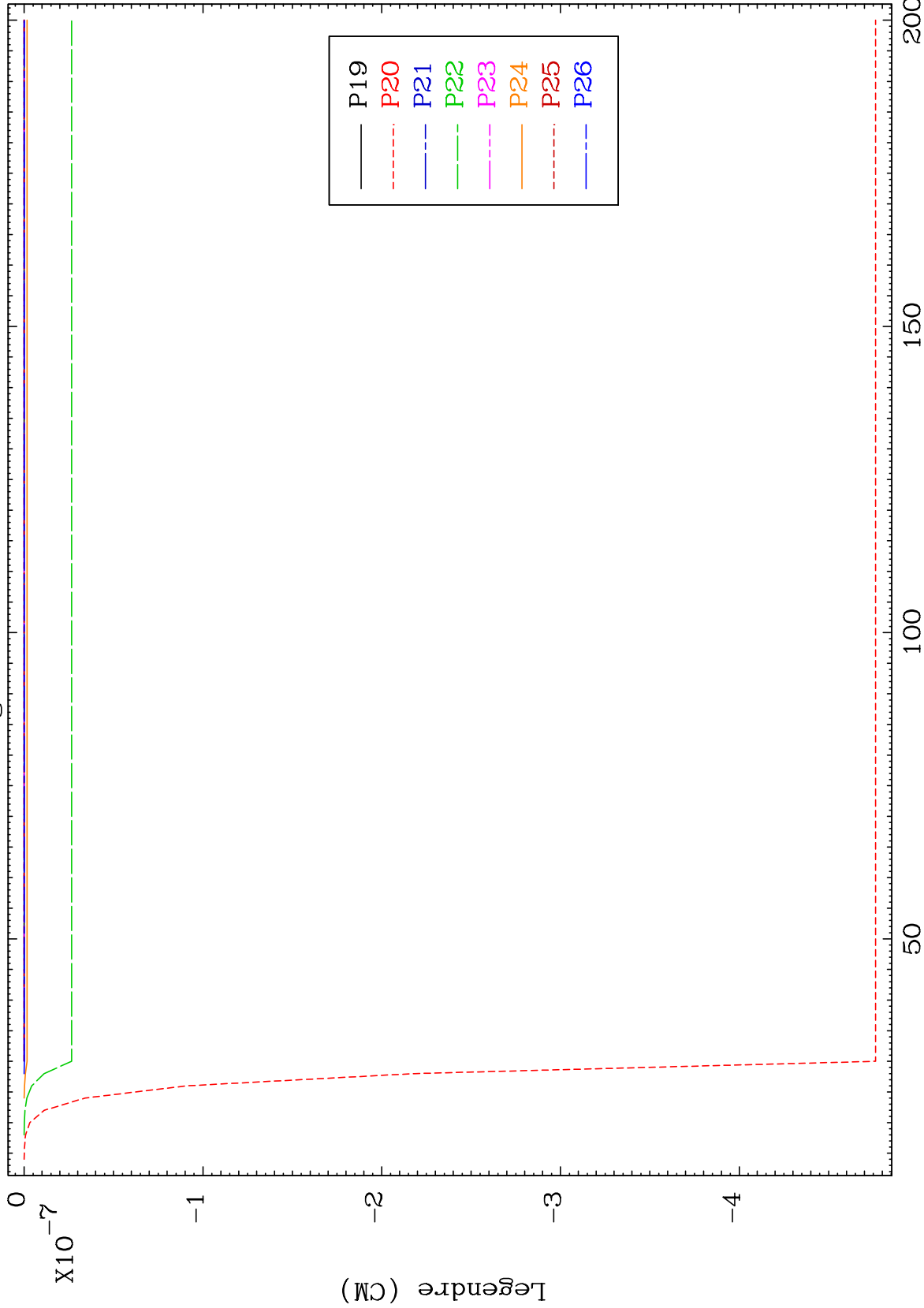
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MAT 6116

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

61-Pm-136



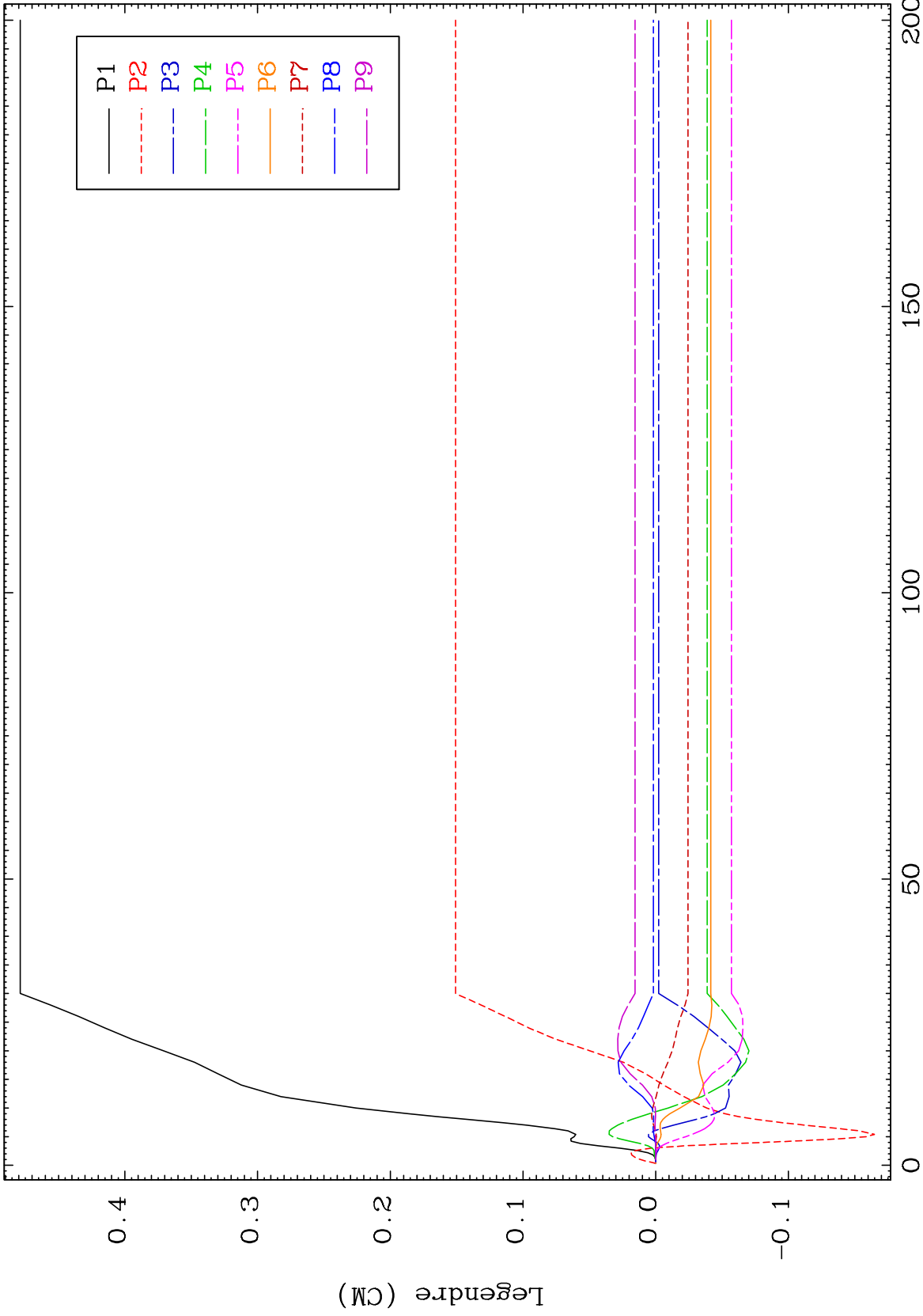
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MAT 6116

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

61-Pm-136



45

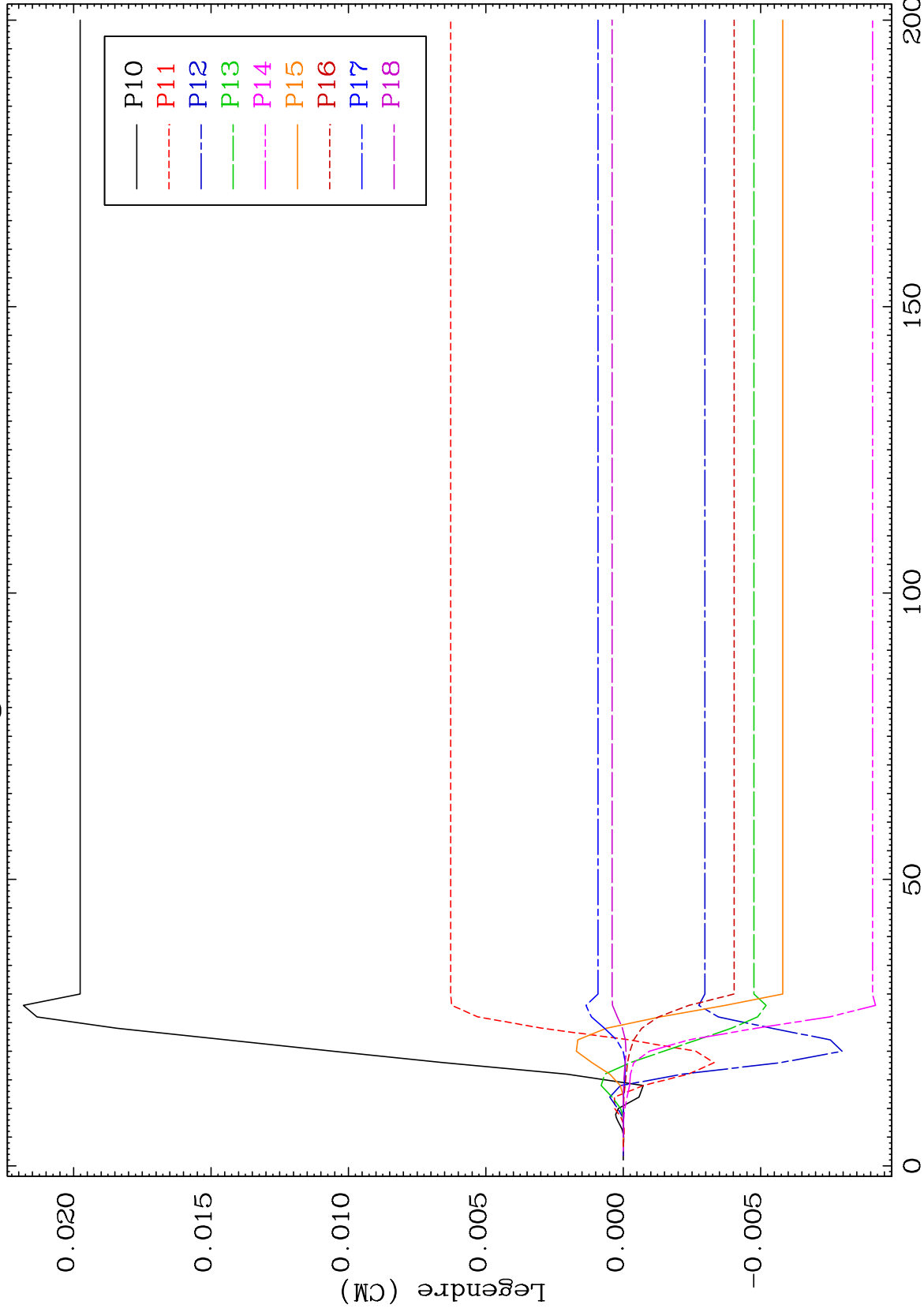
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



46

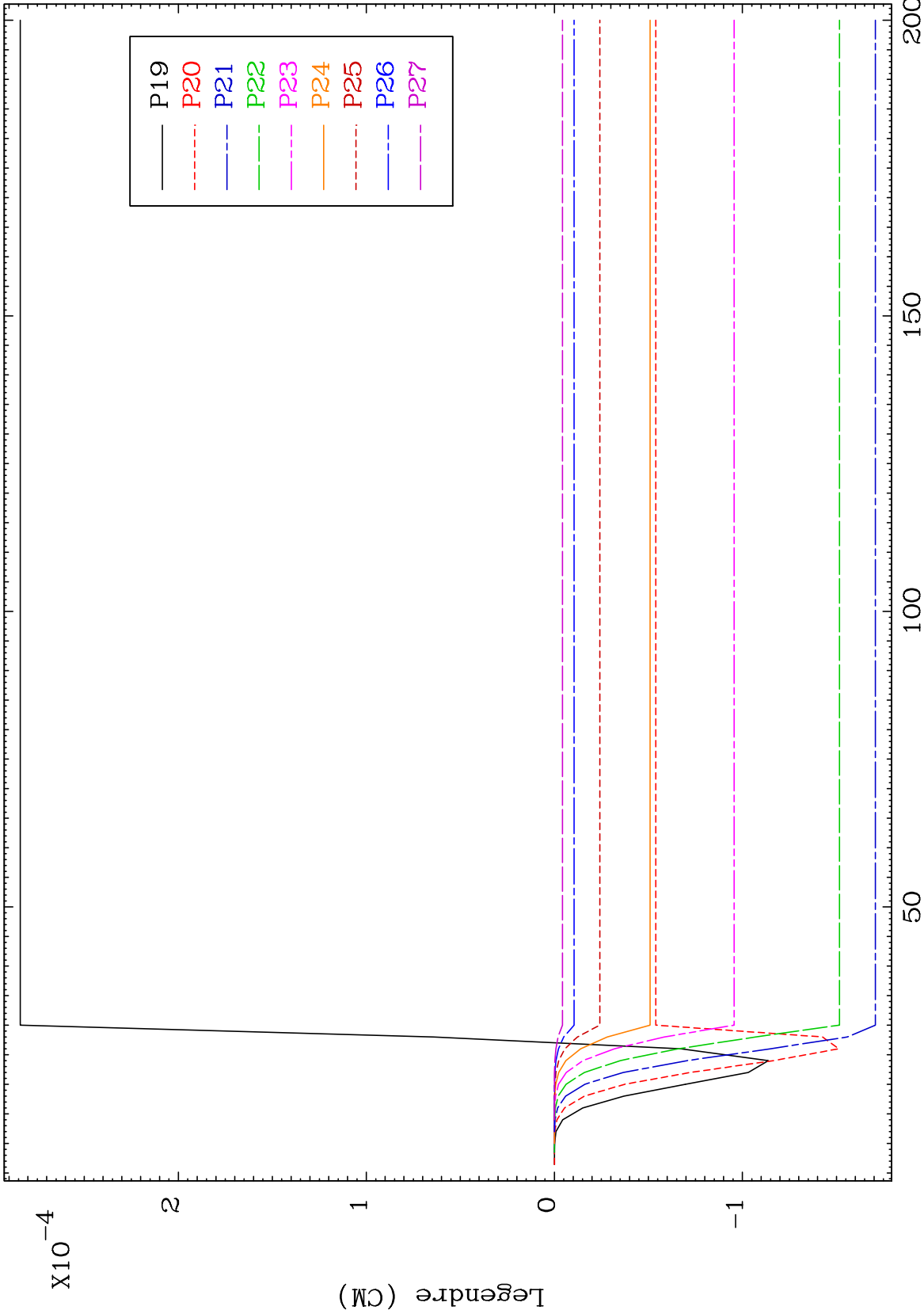
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



47

Incident Energy (MeV)

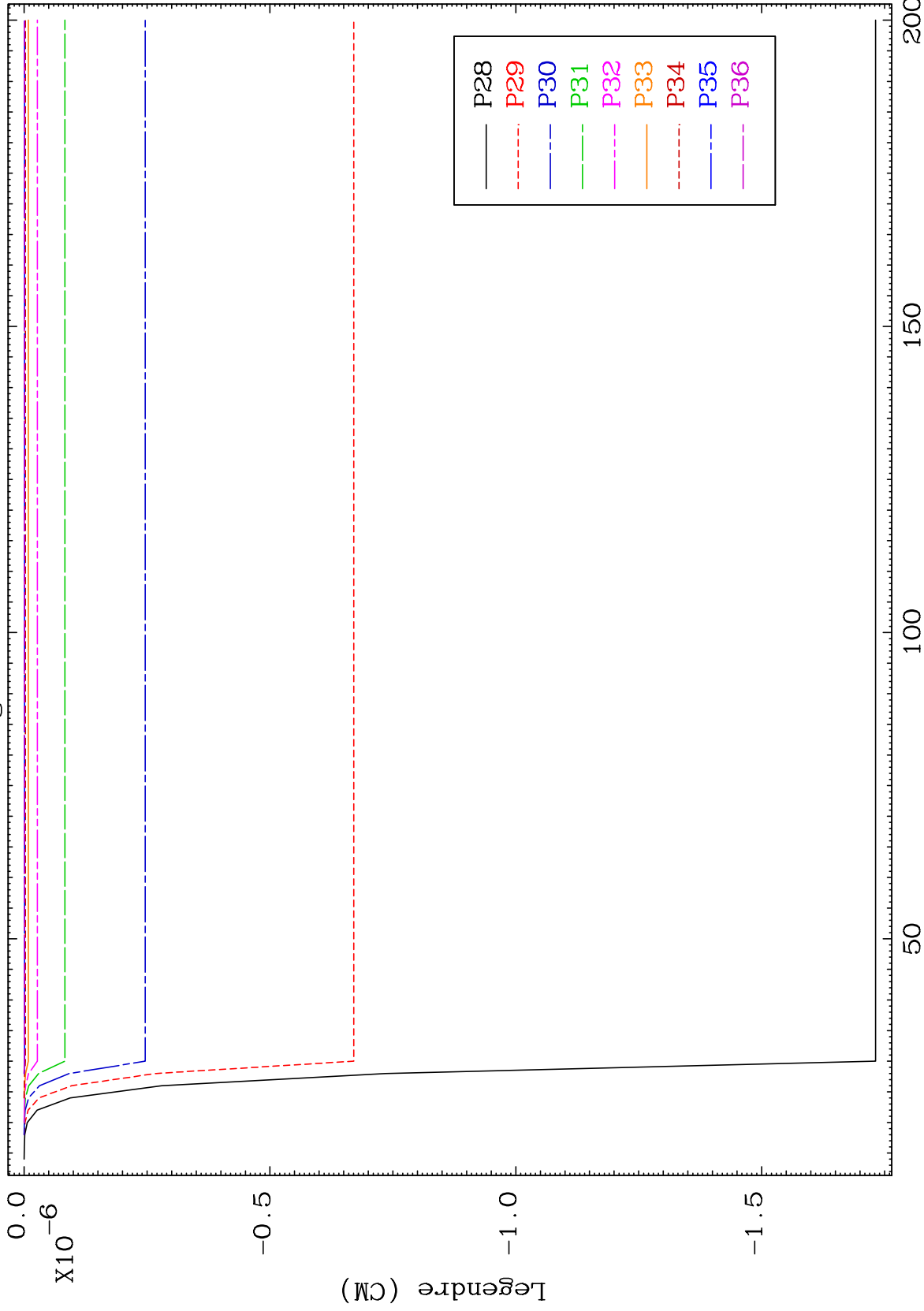
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MAT 6116

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

61-Pm-136



61-Pm-136

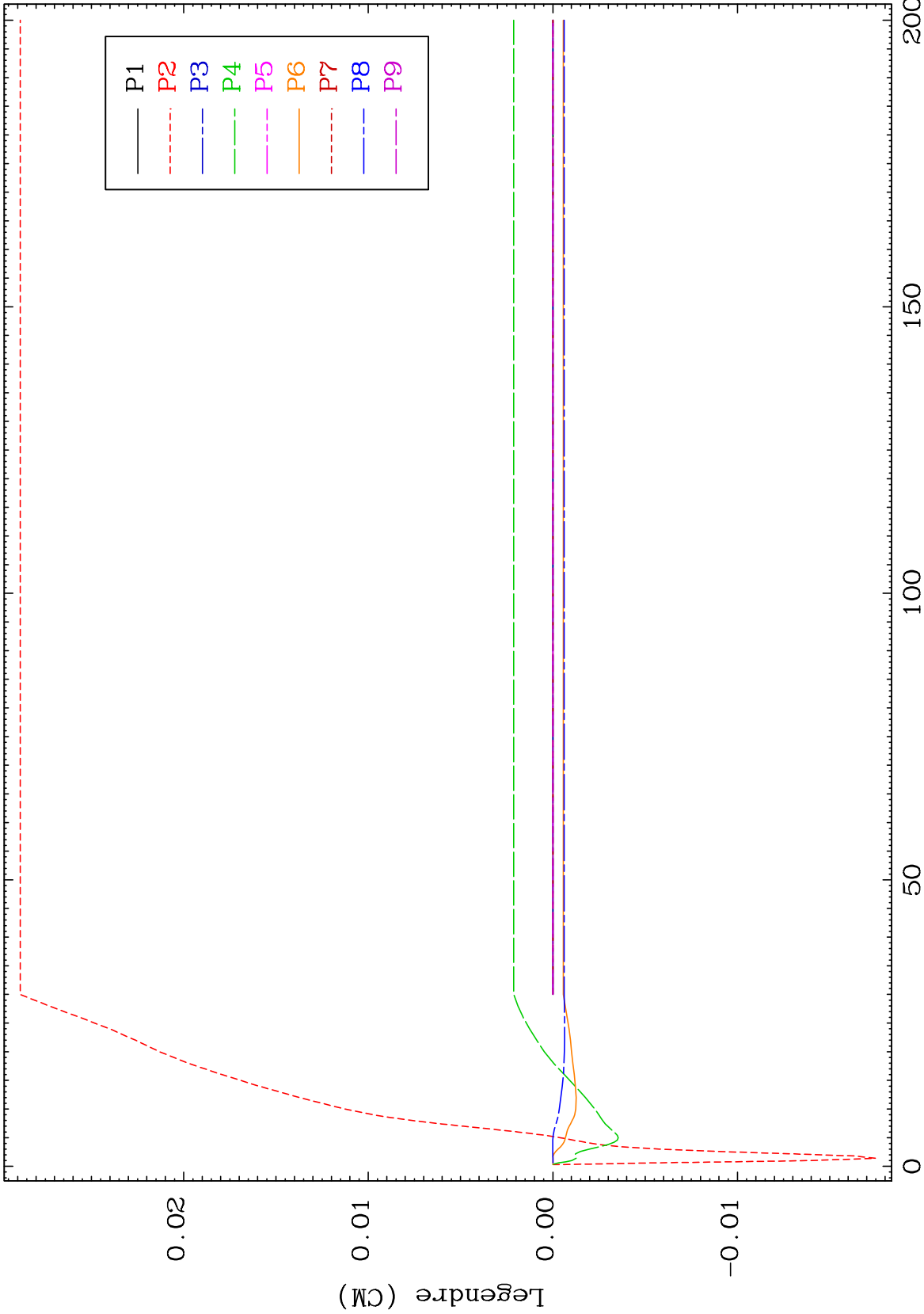
Incident Energy (MeV)

48

MAT 6116

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

61-Pm-136



49

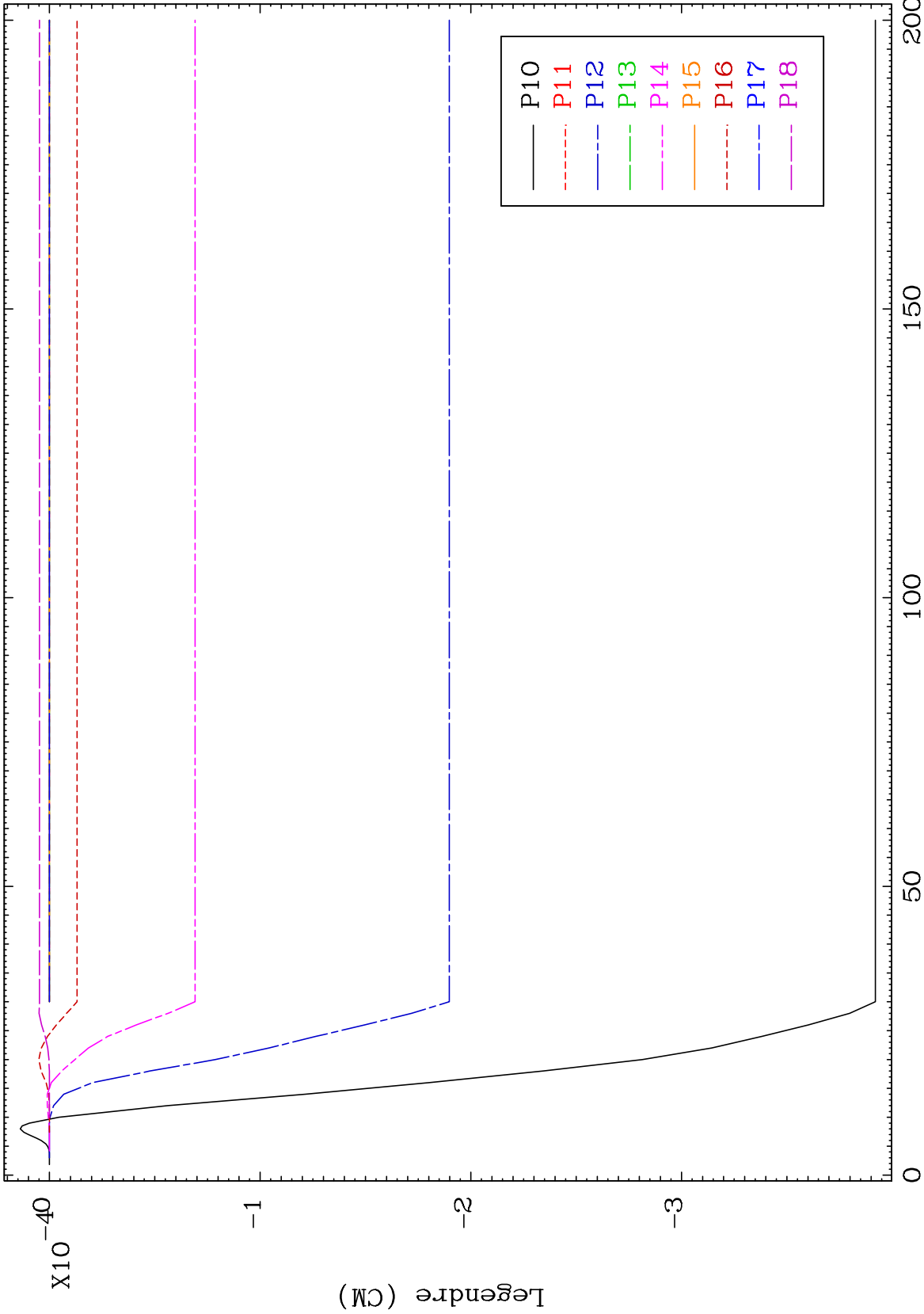
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



50

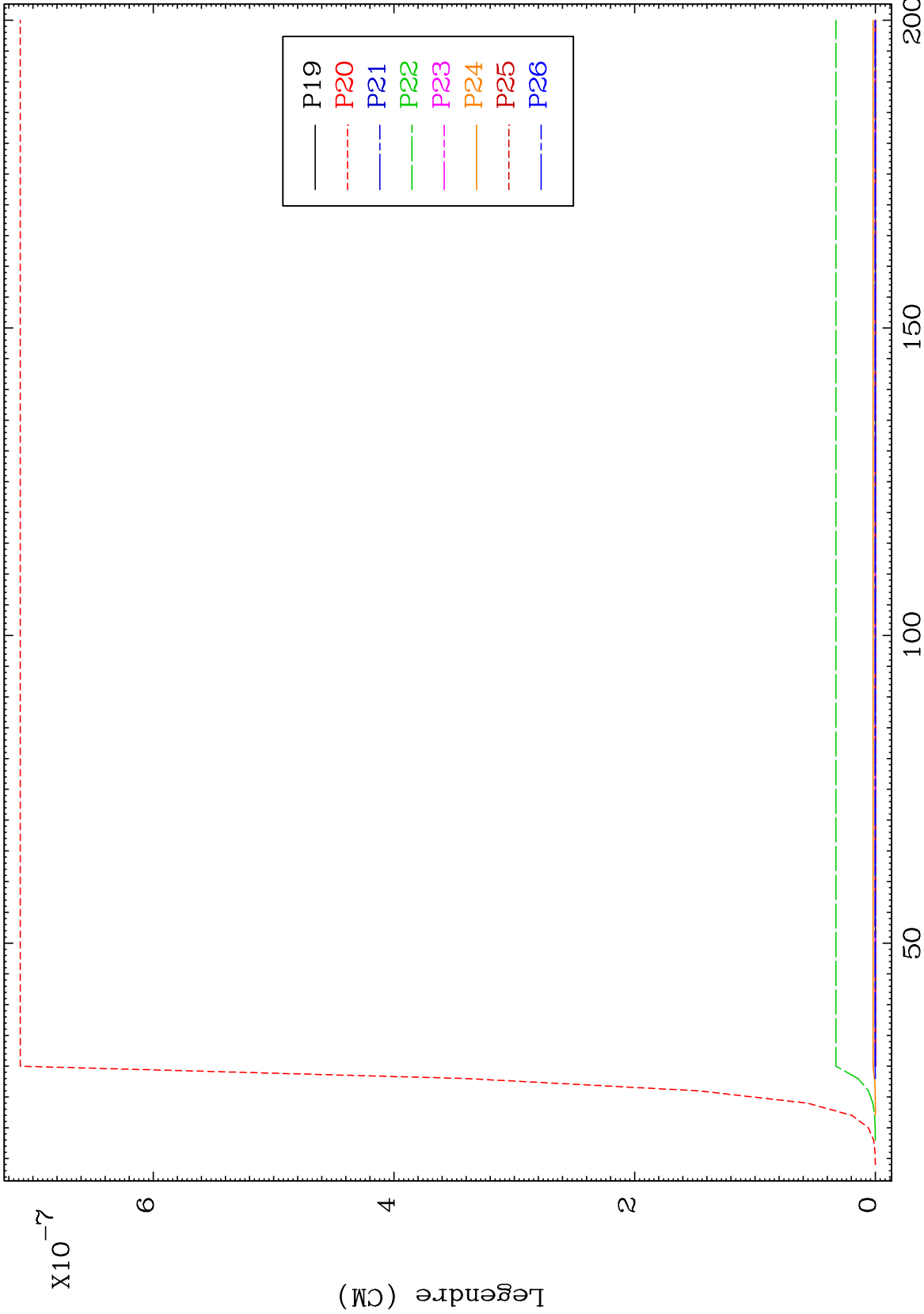
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



51

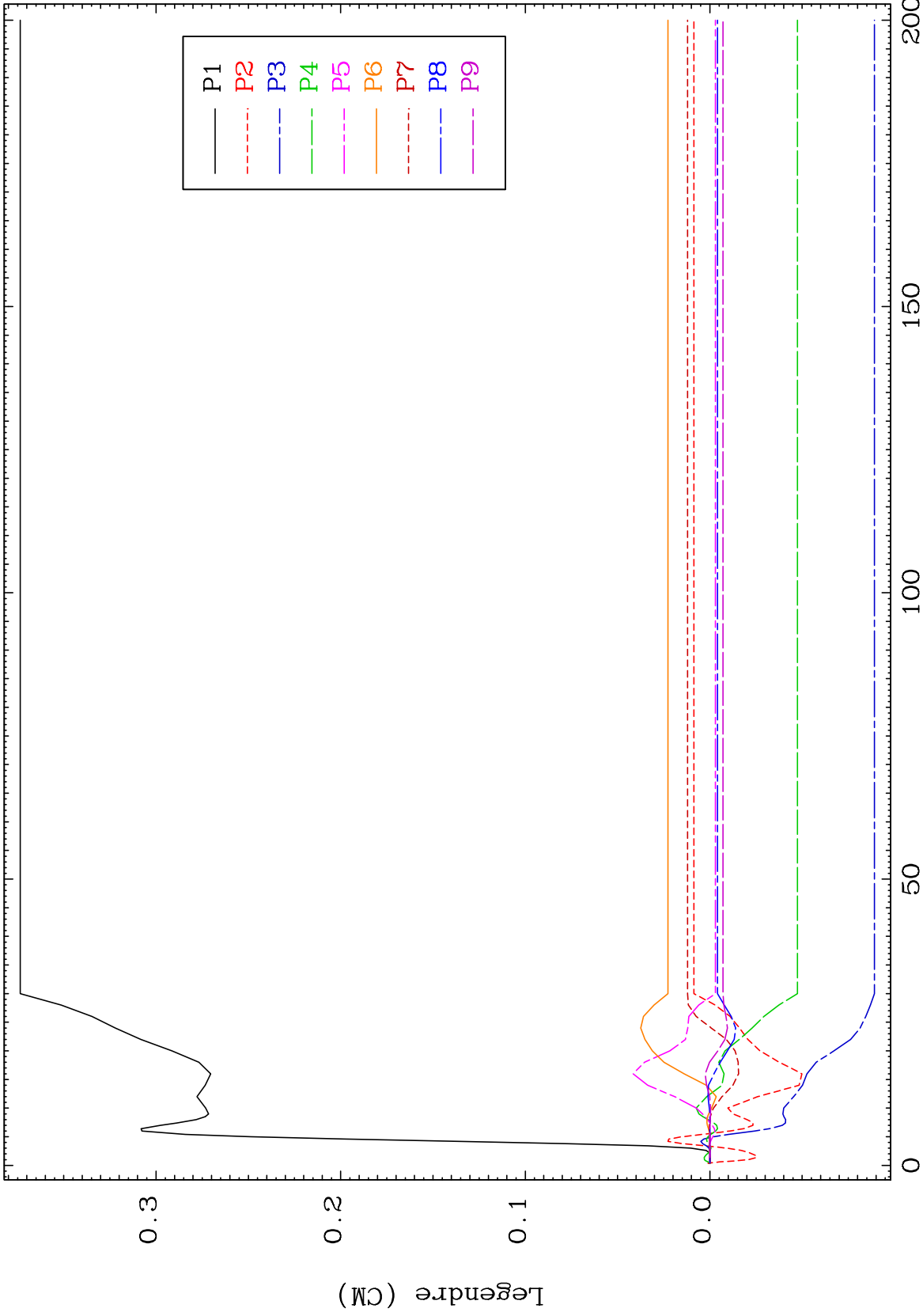
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



52

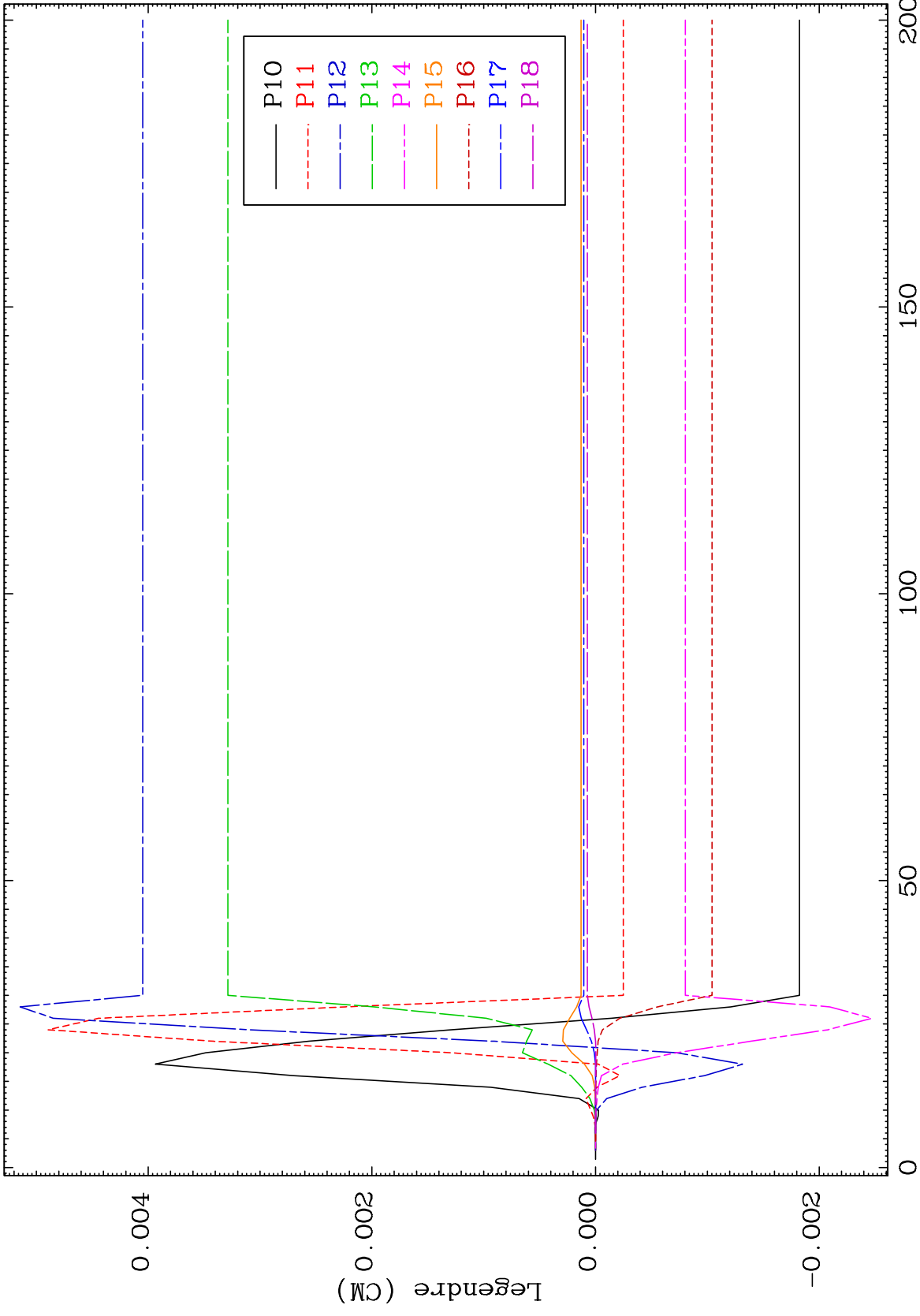
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



53

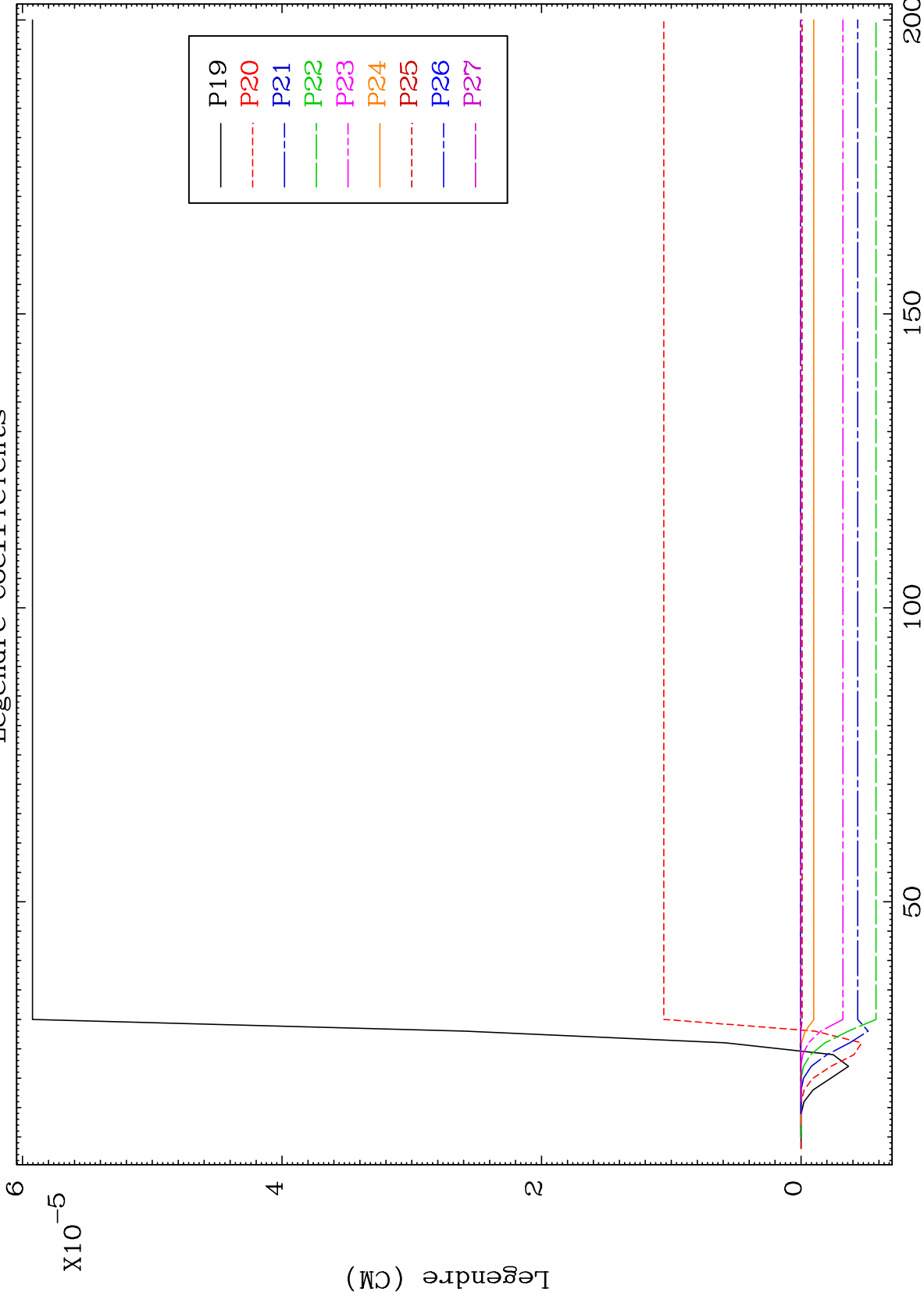
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



54

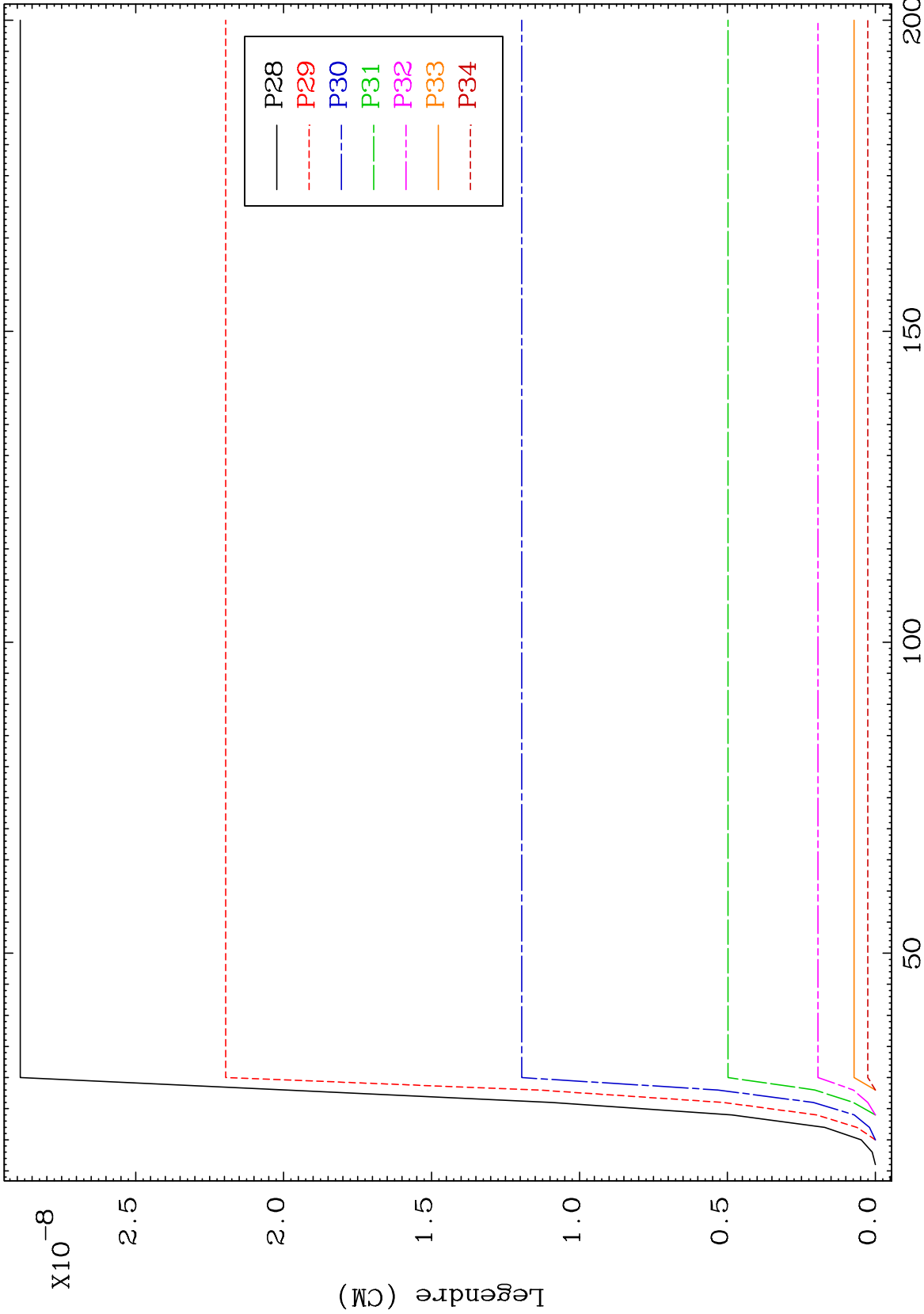
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



55

Incident Energy (MeV)

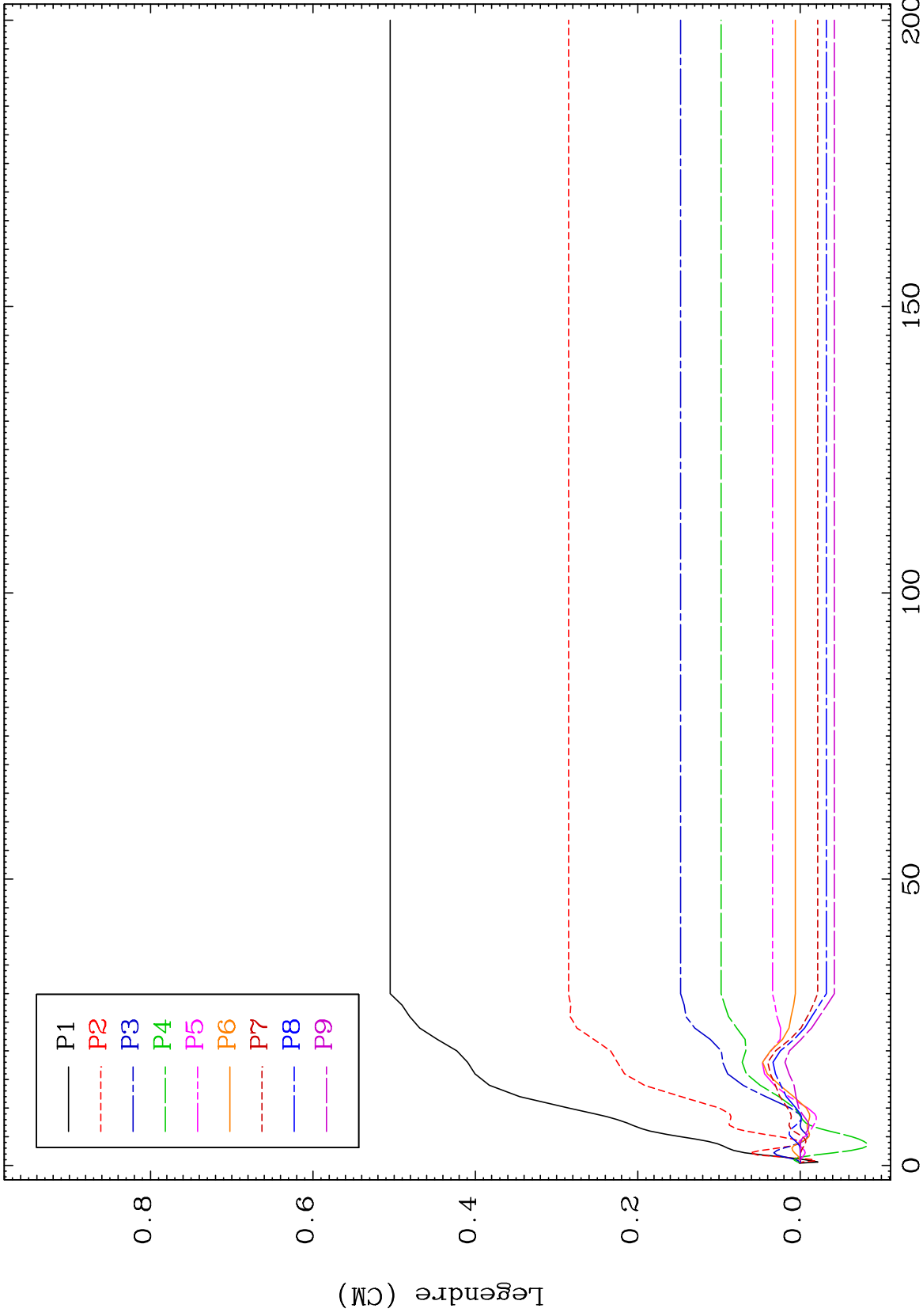
61-Pm-136



MAT 6116

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

61-Pm-136

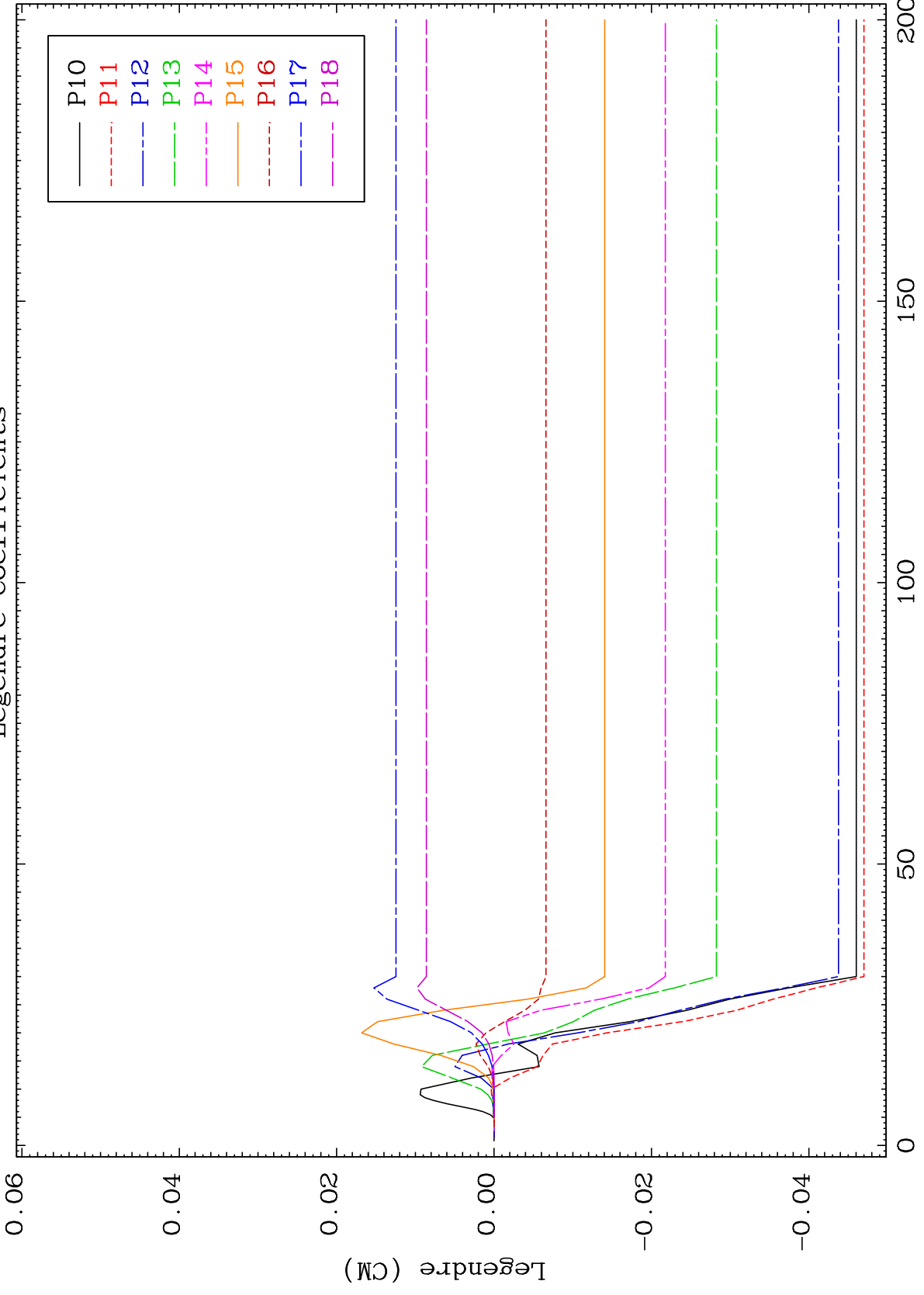


56

Incident Energy (MeV)

61-Pm-136

MAT 6116 MT= 61 (n,n') Level Legendre Coefficients 61-Pm-136

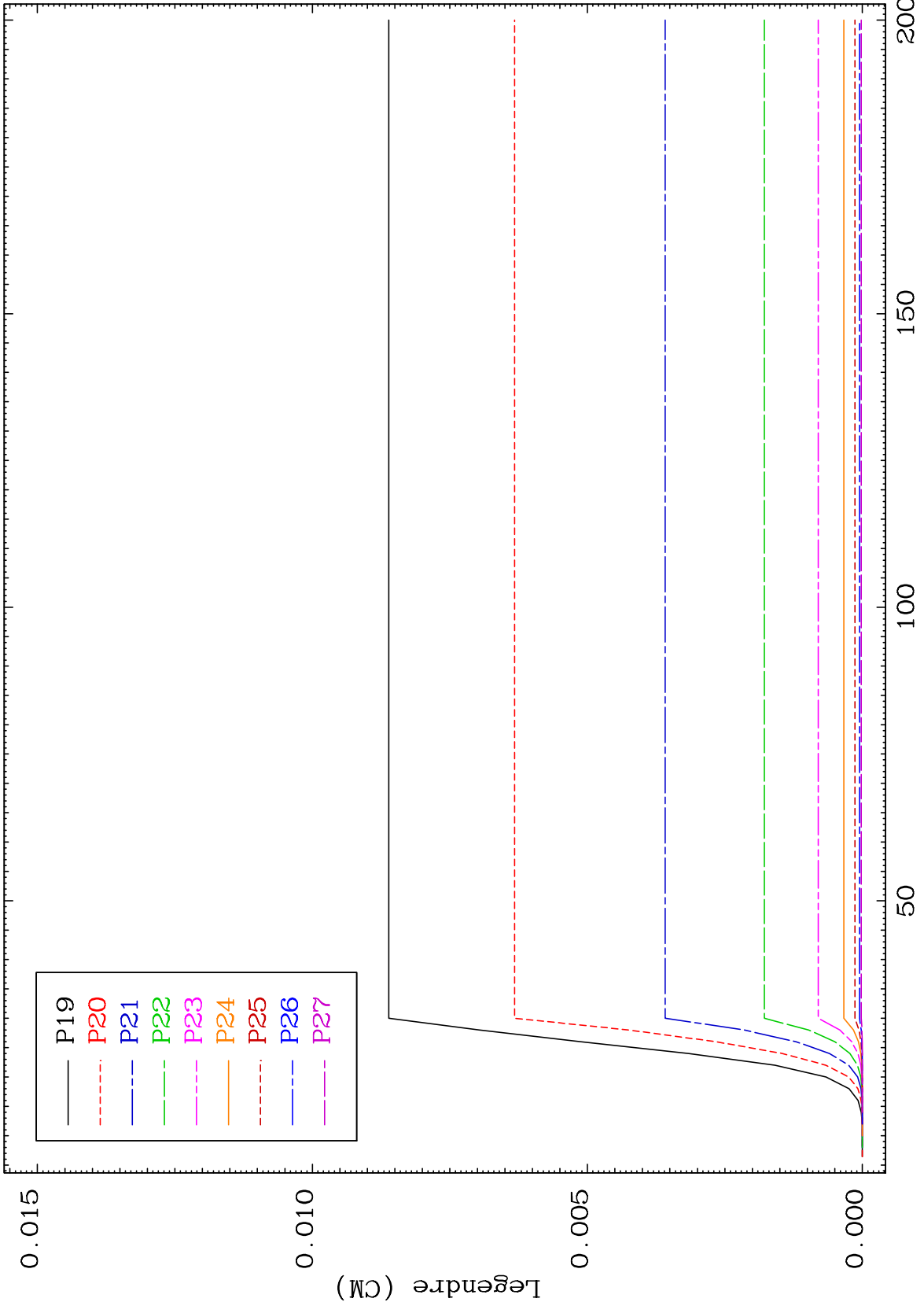


57 61-Pm-136

MAT 6116

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

61-Pm-136



58

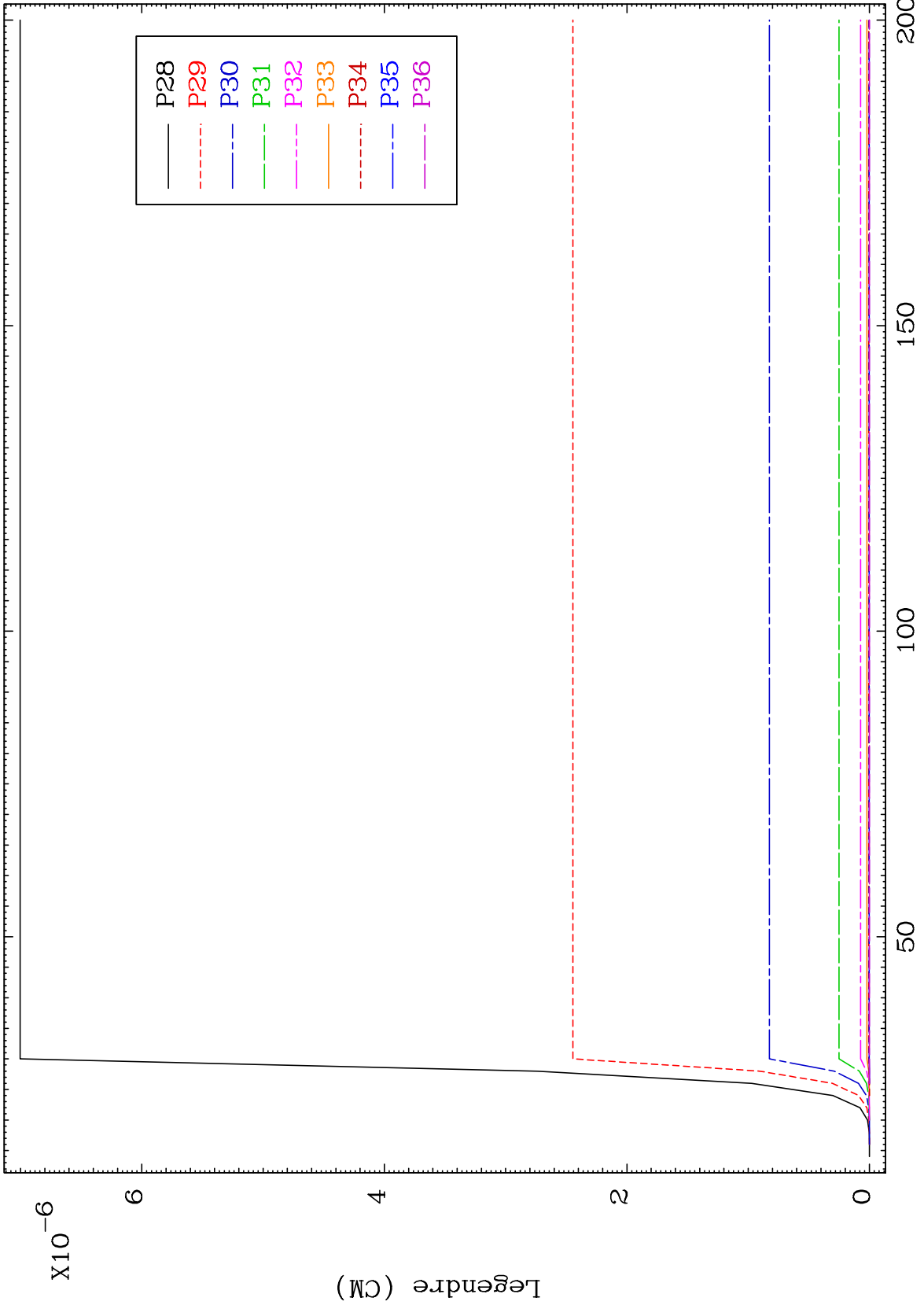
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



59

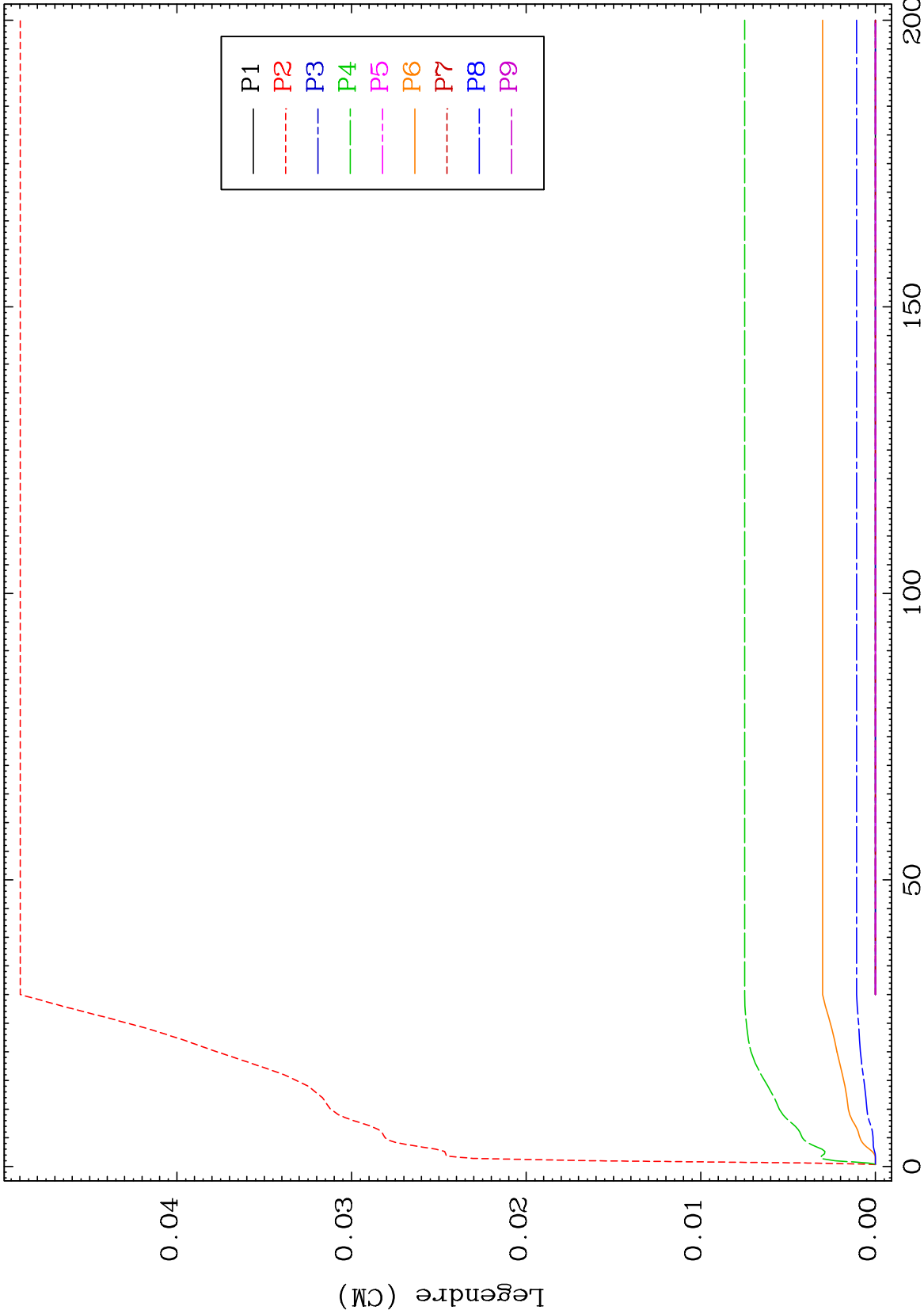
61-Pm-136

61-Pm-136

MAT 6116

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

61-Pm-136



60

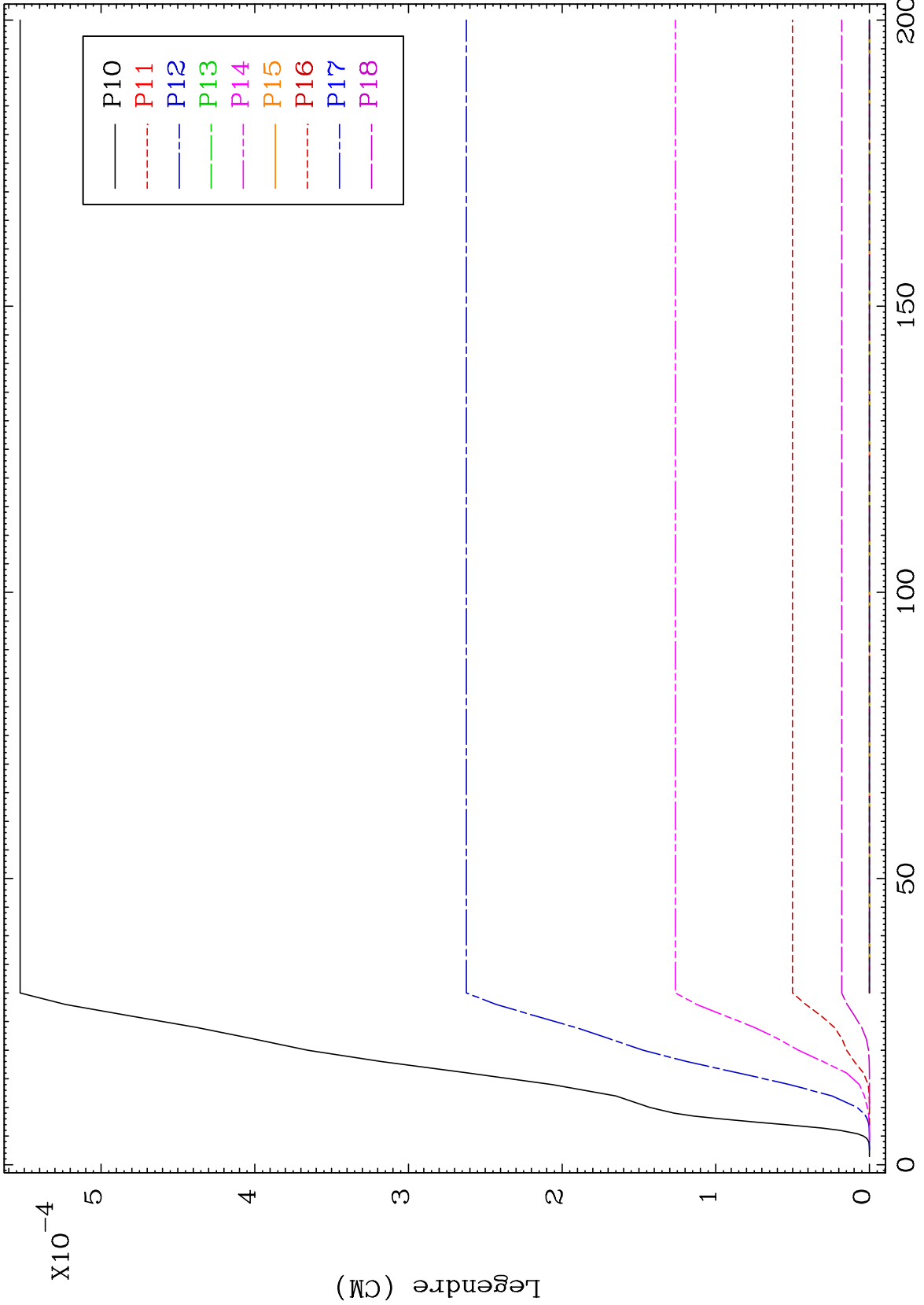
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



61

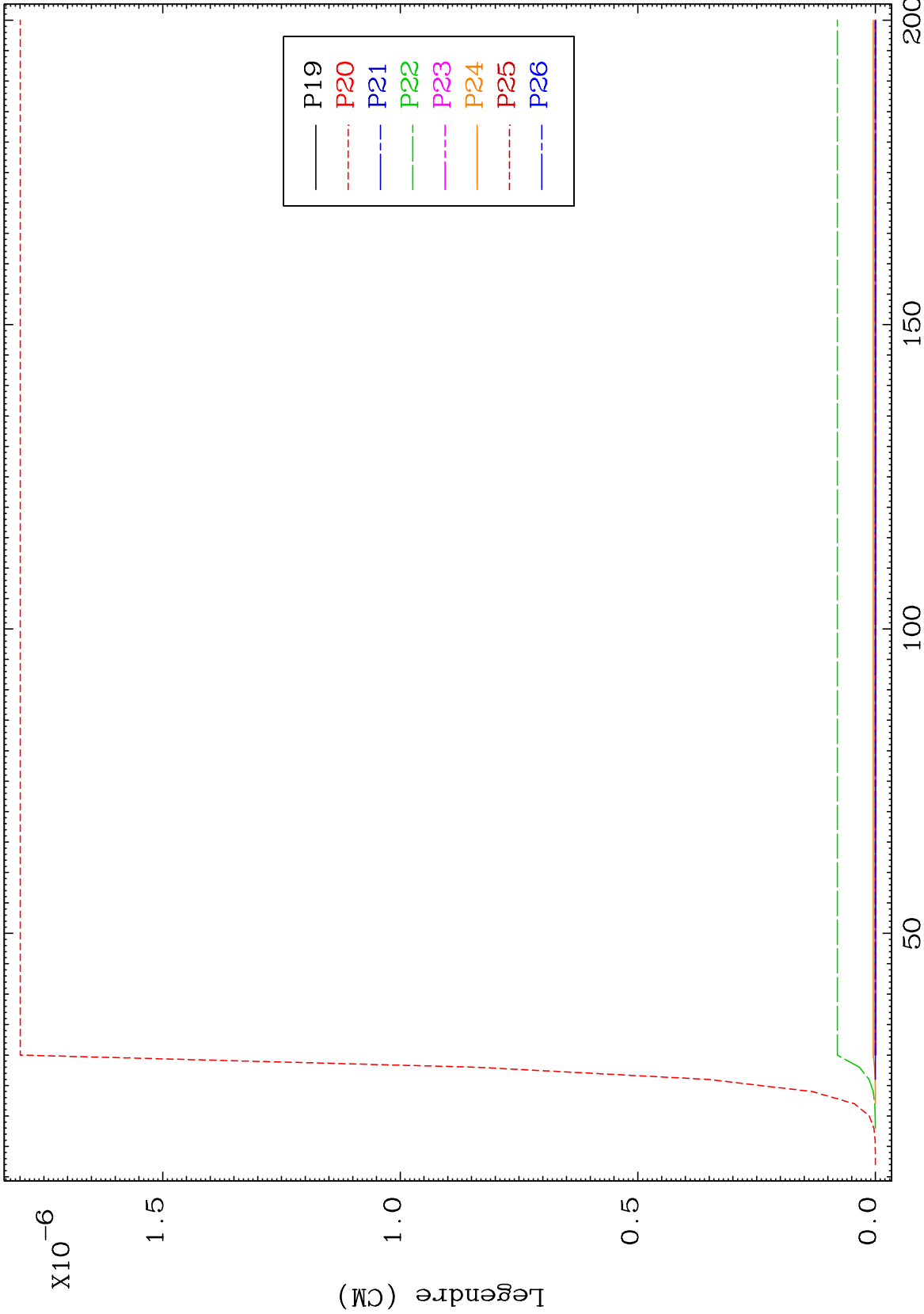
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



62

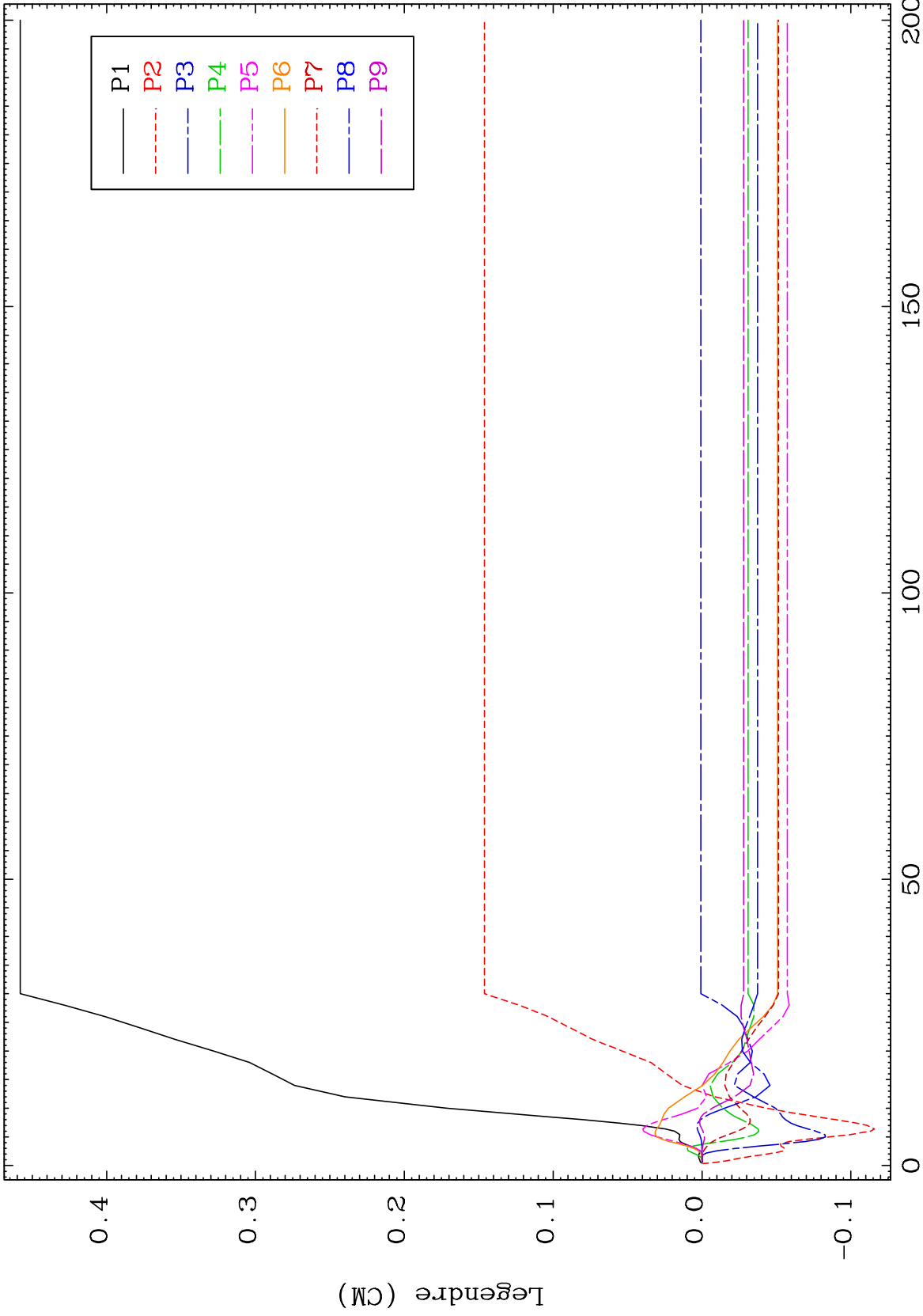
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



63

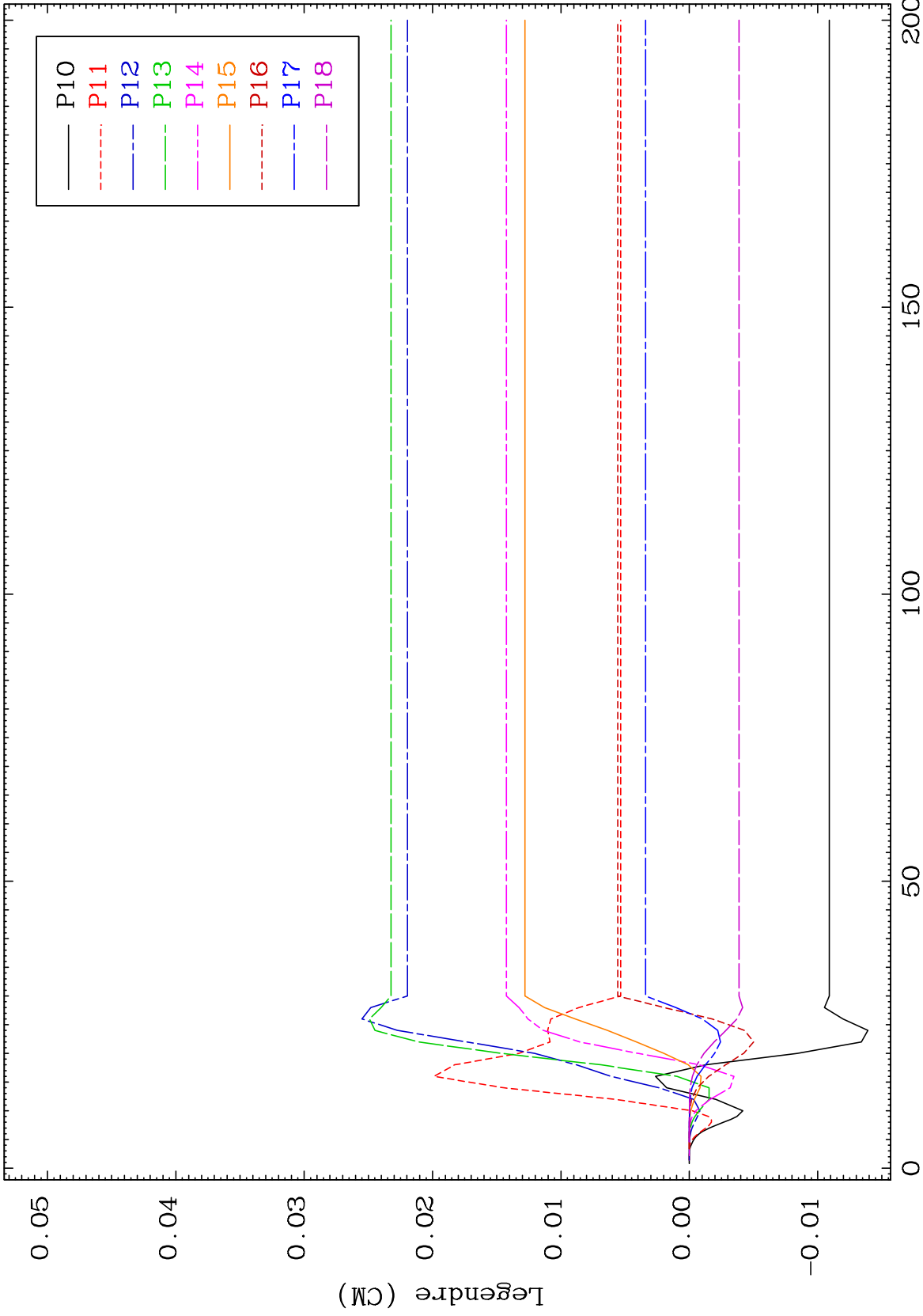
61-Pm-136



MAT 6116

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

61-Pm-136



64

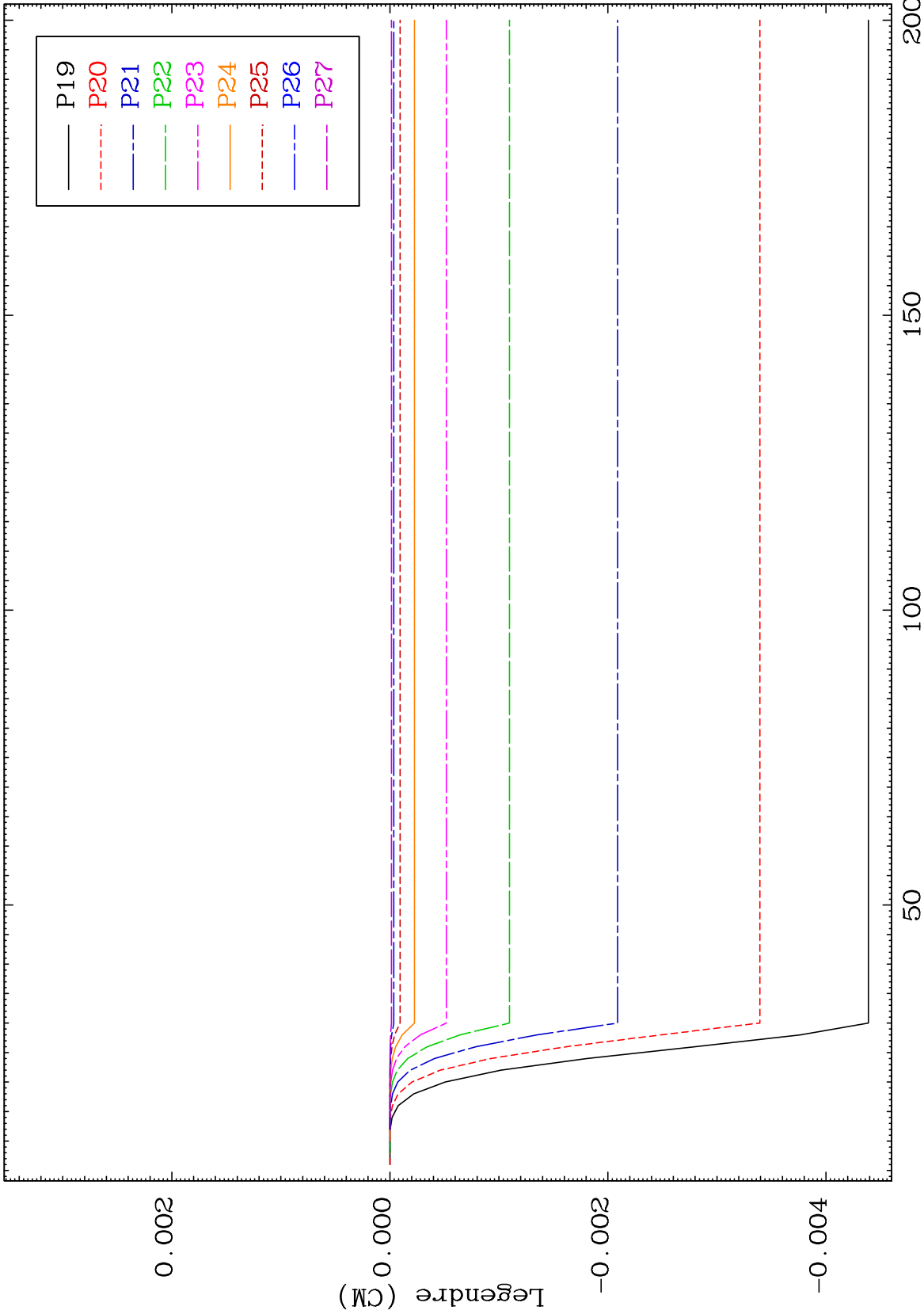
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



65

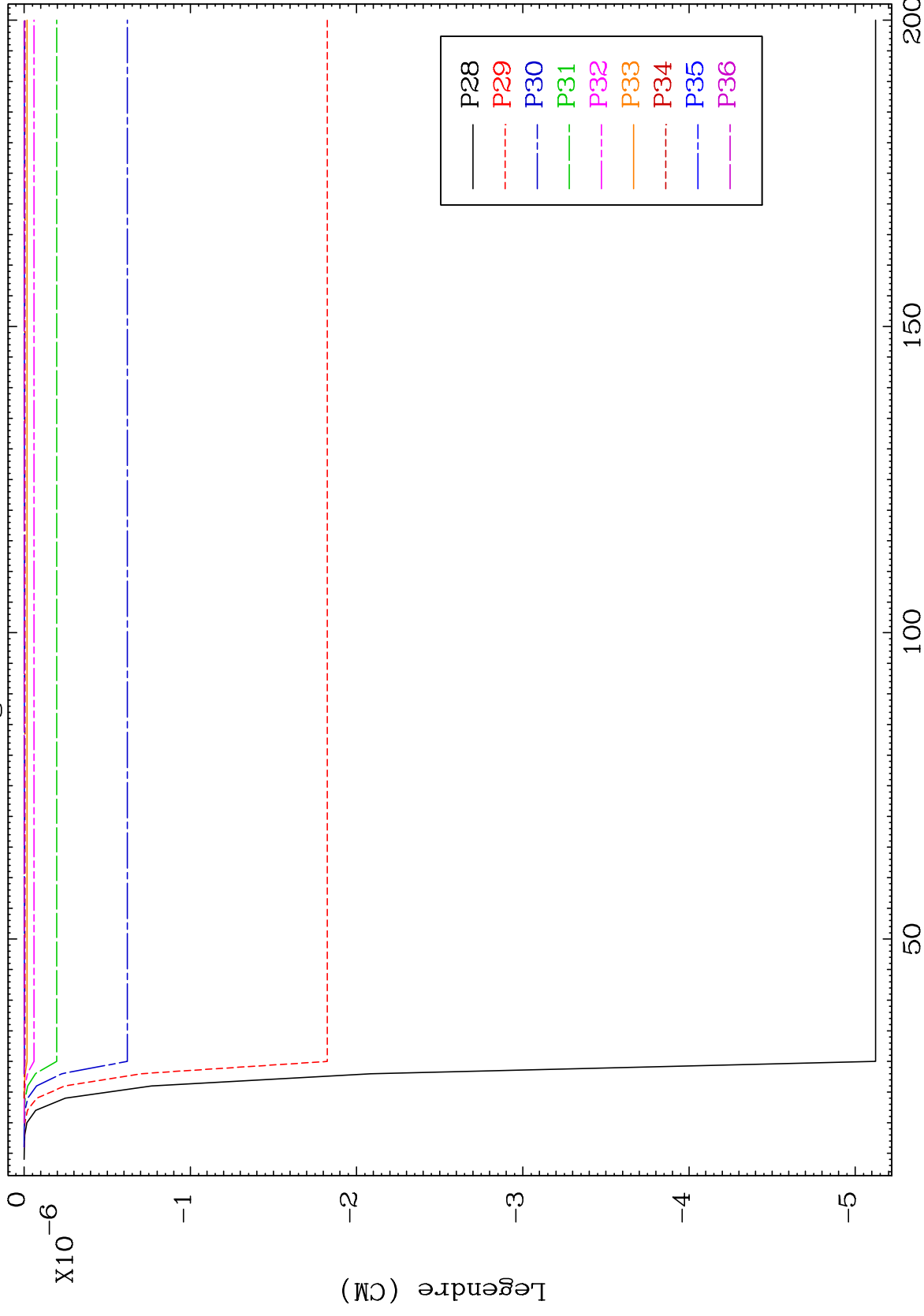
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



61-Pm-136

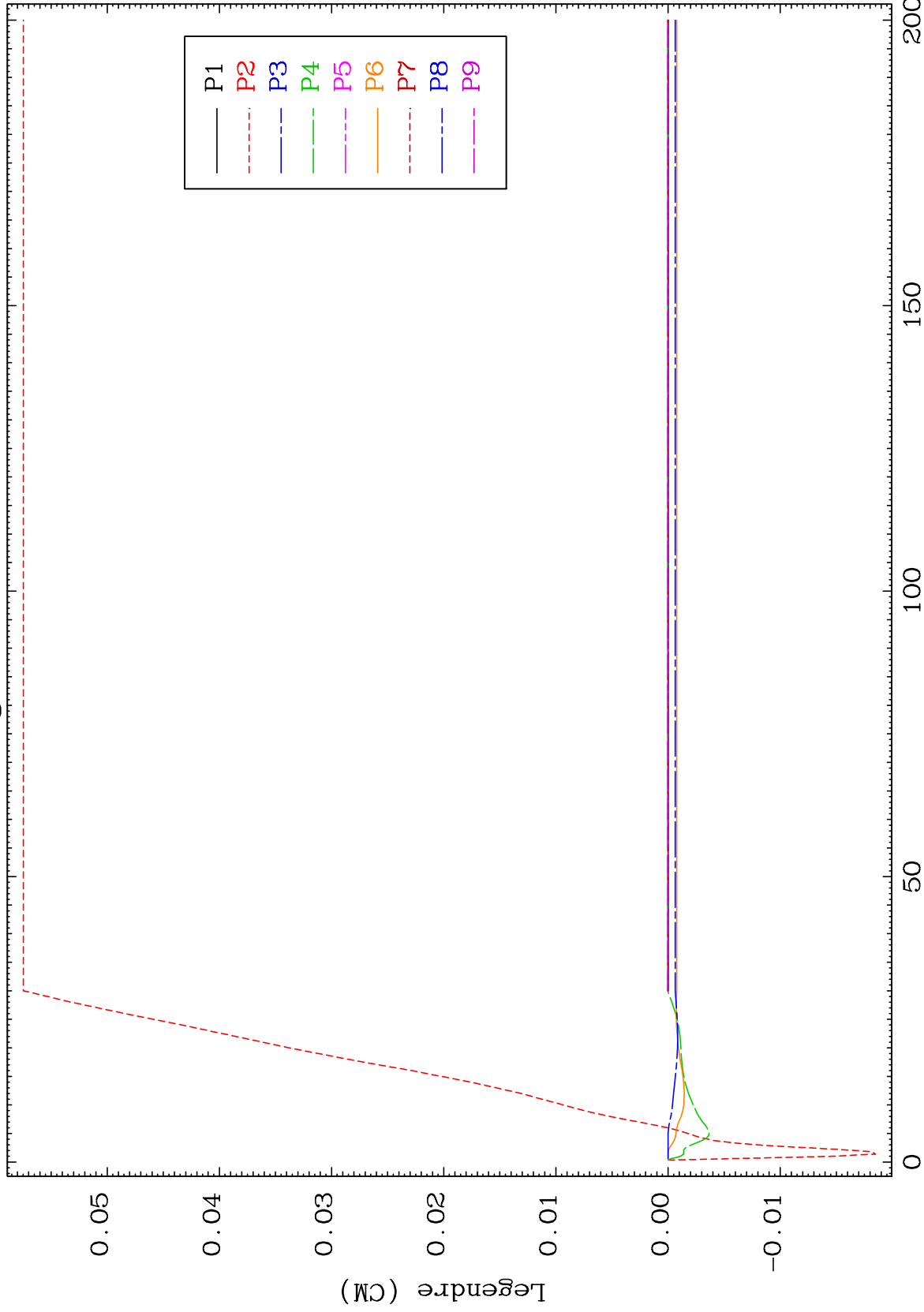
Incident Energy (MeV)

66

MAT 6116

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

61-Pm-136



67

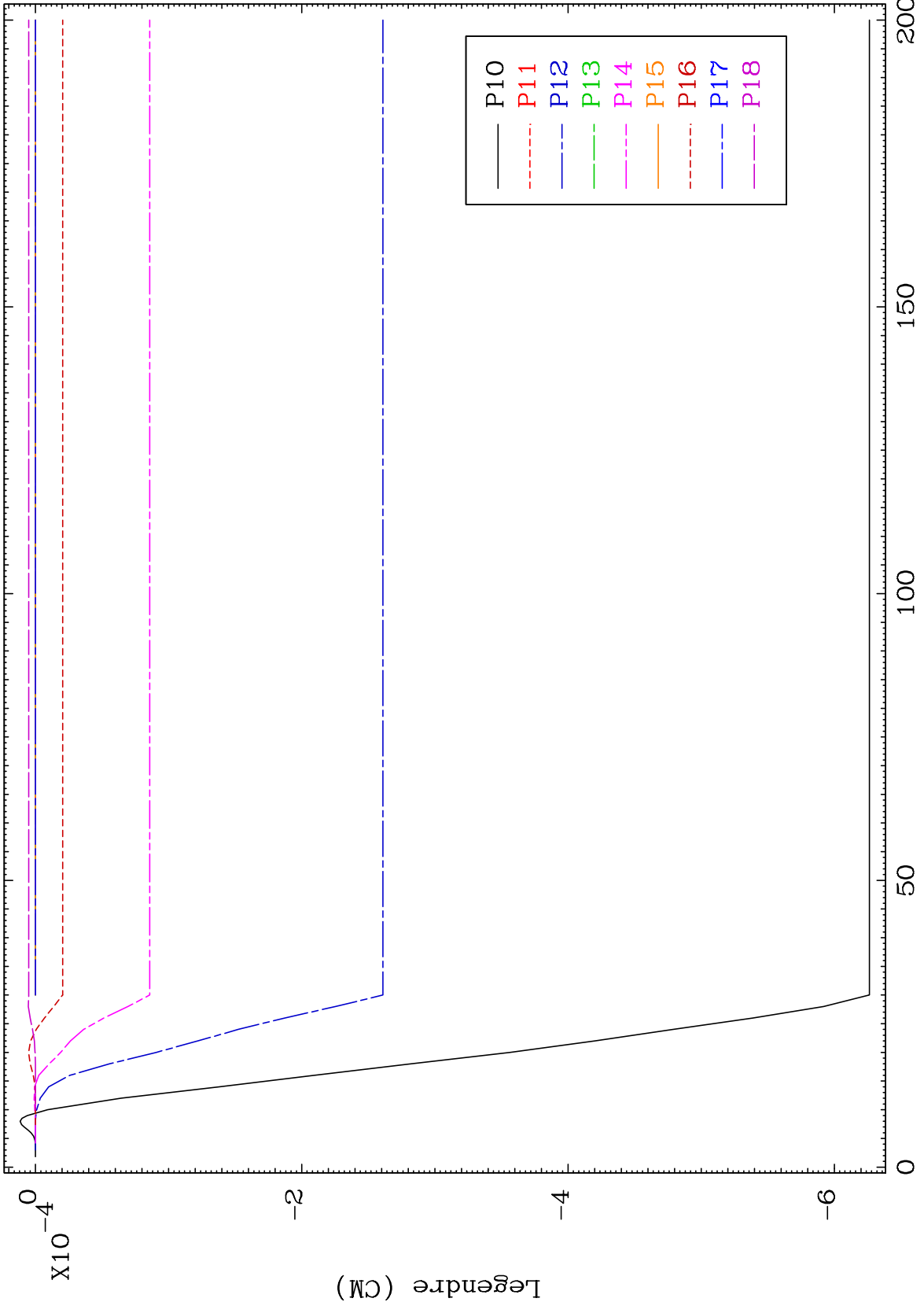
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



68

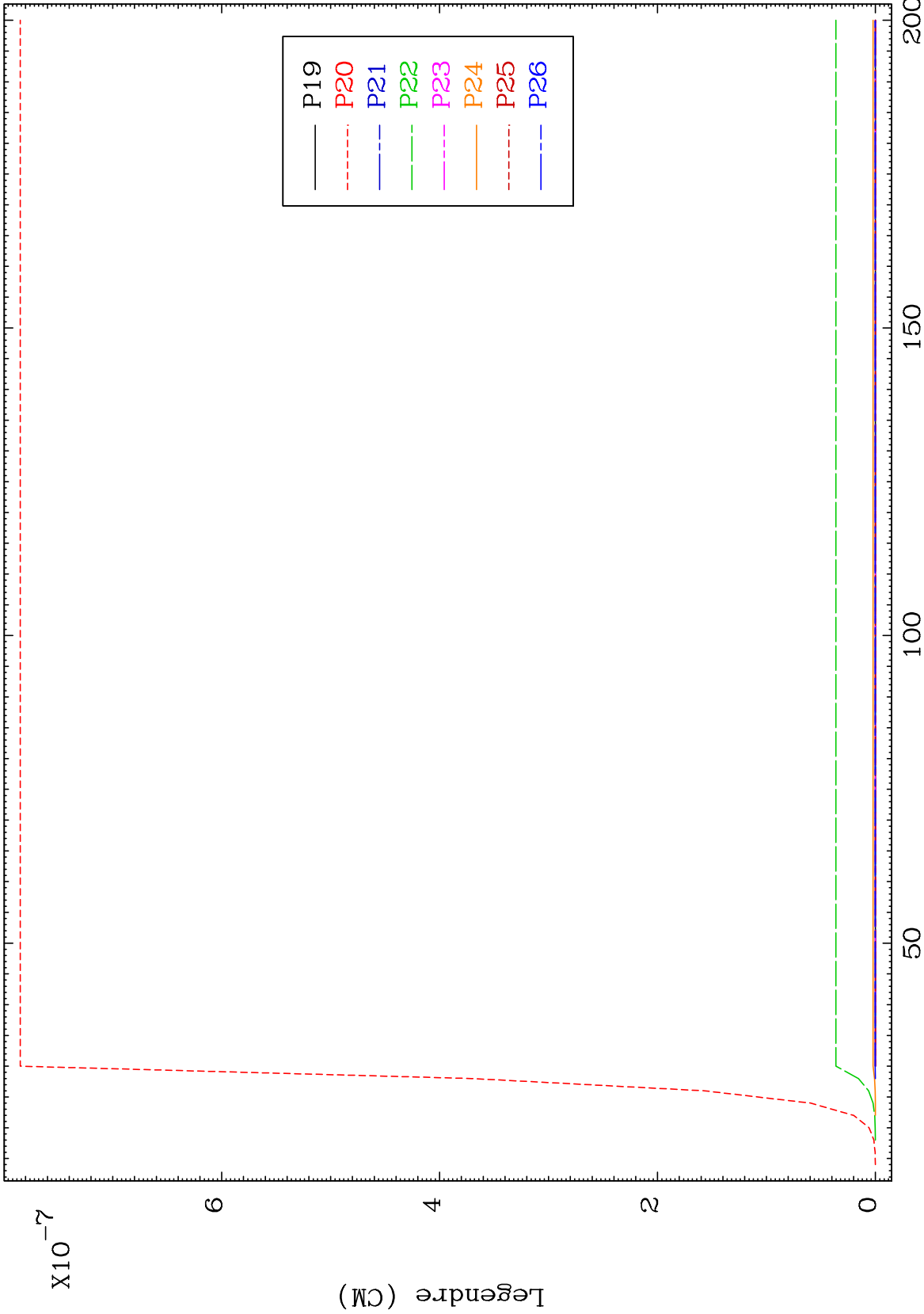
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



69

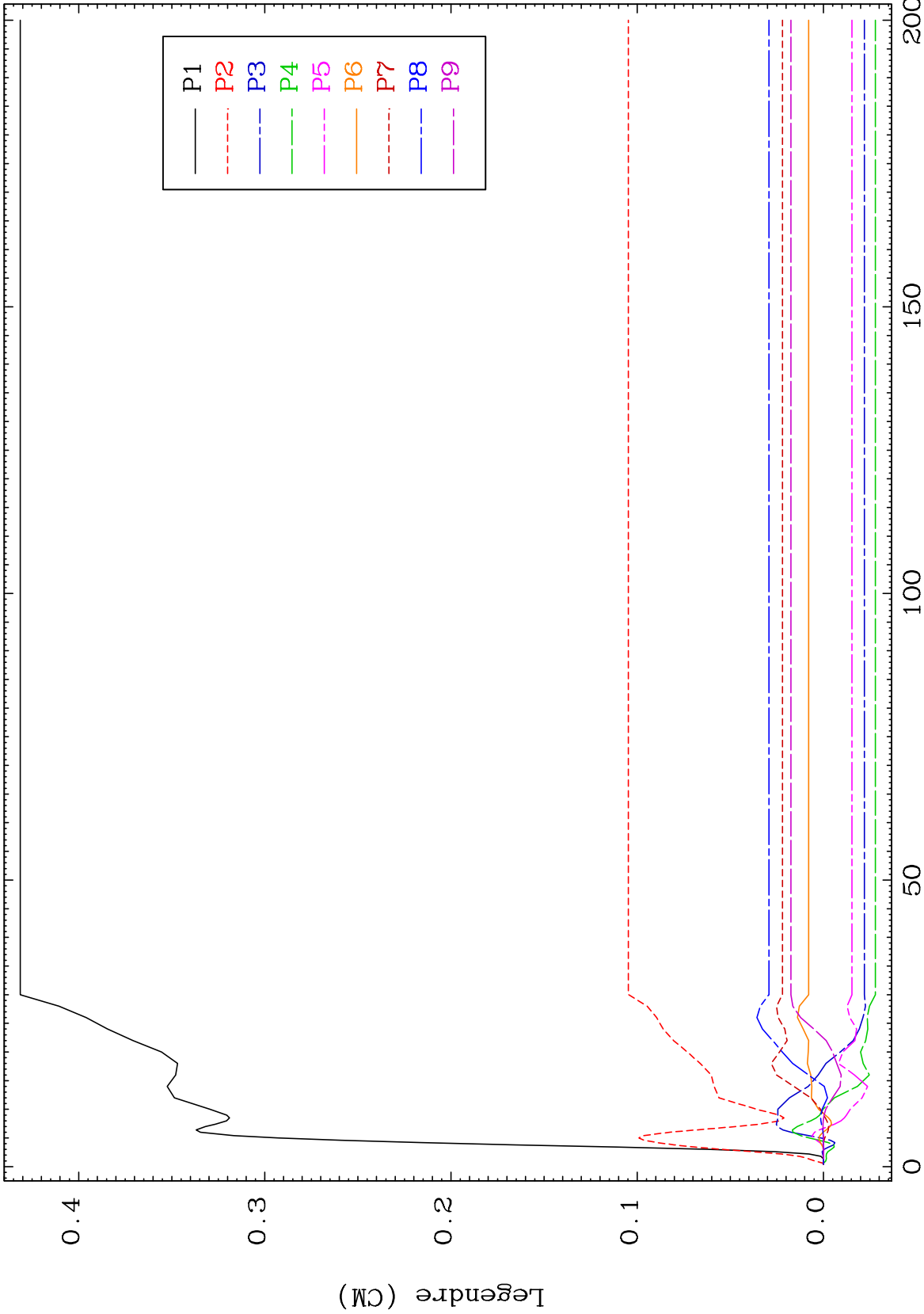
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



70

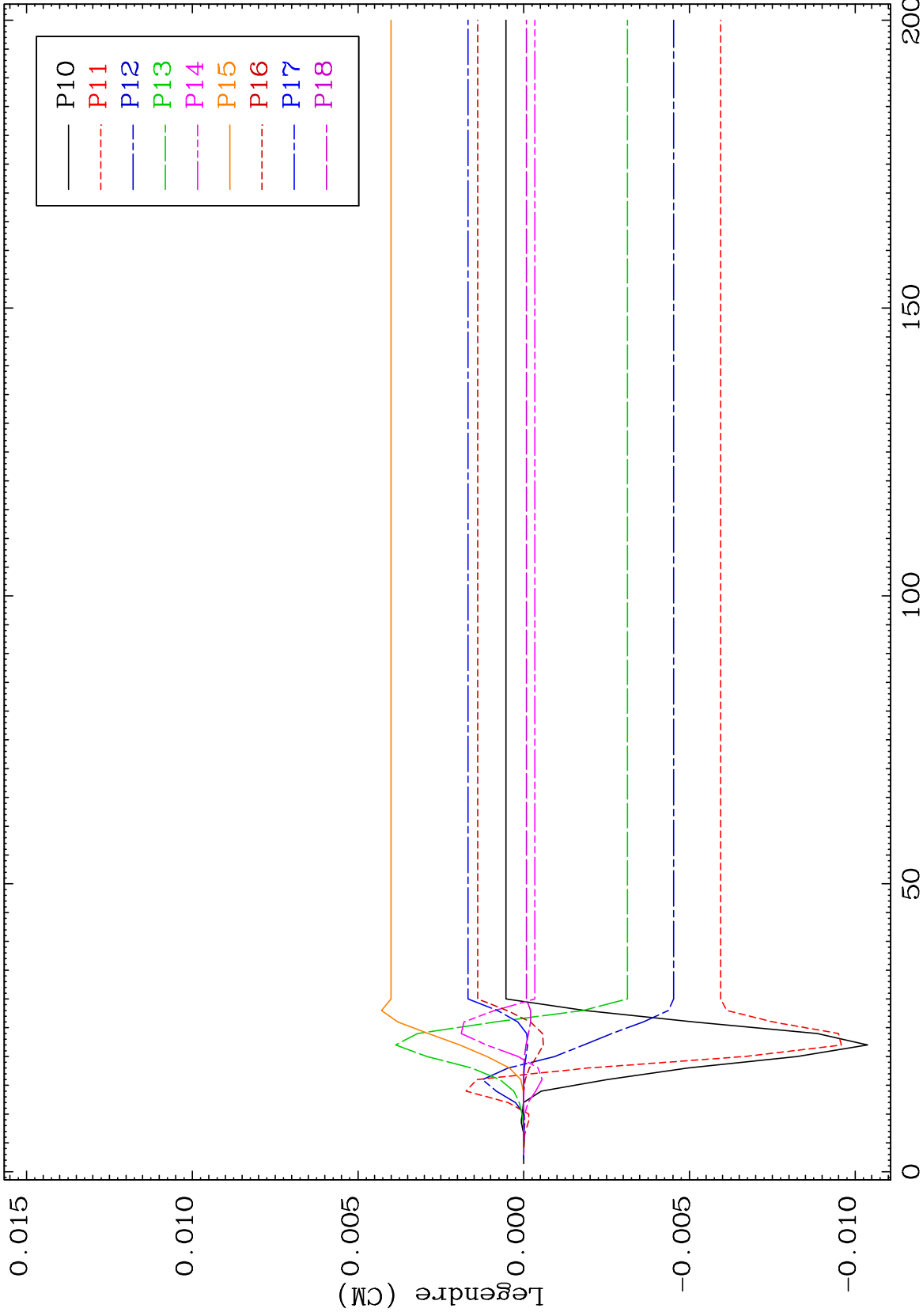
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



71

Incident Energy (MeV)

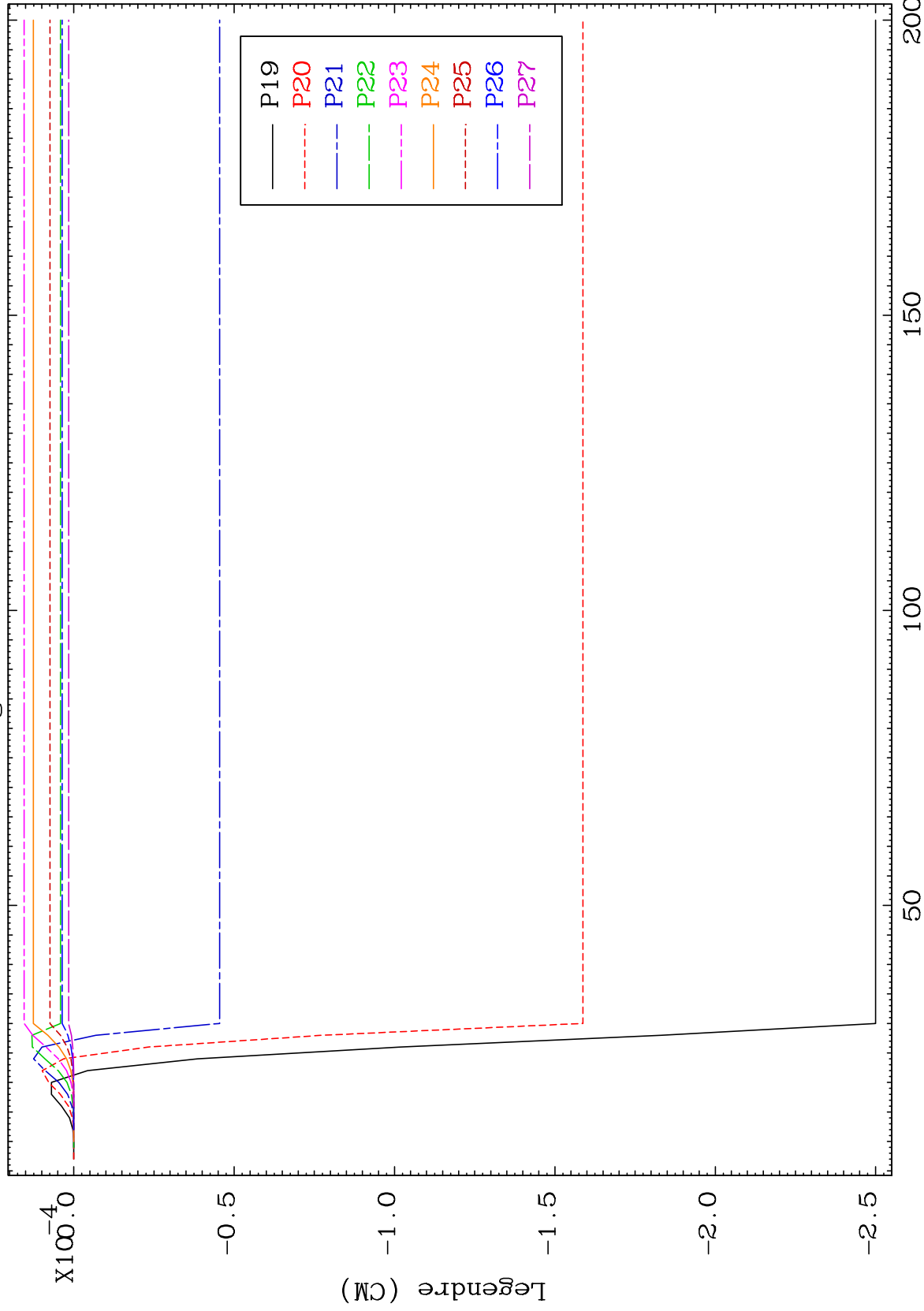
61-Pm-136



MAT 6116

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

61-Pm-136



72

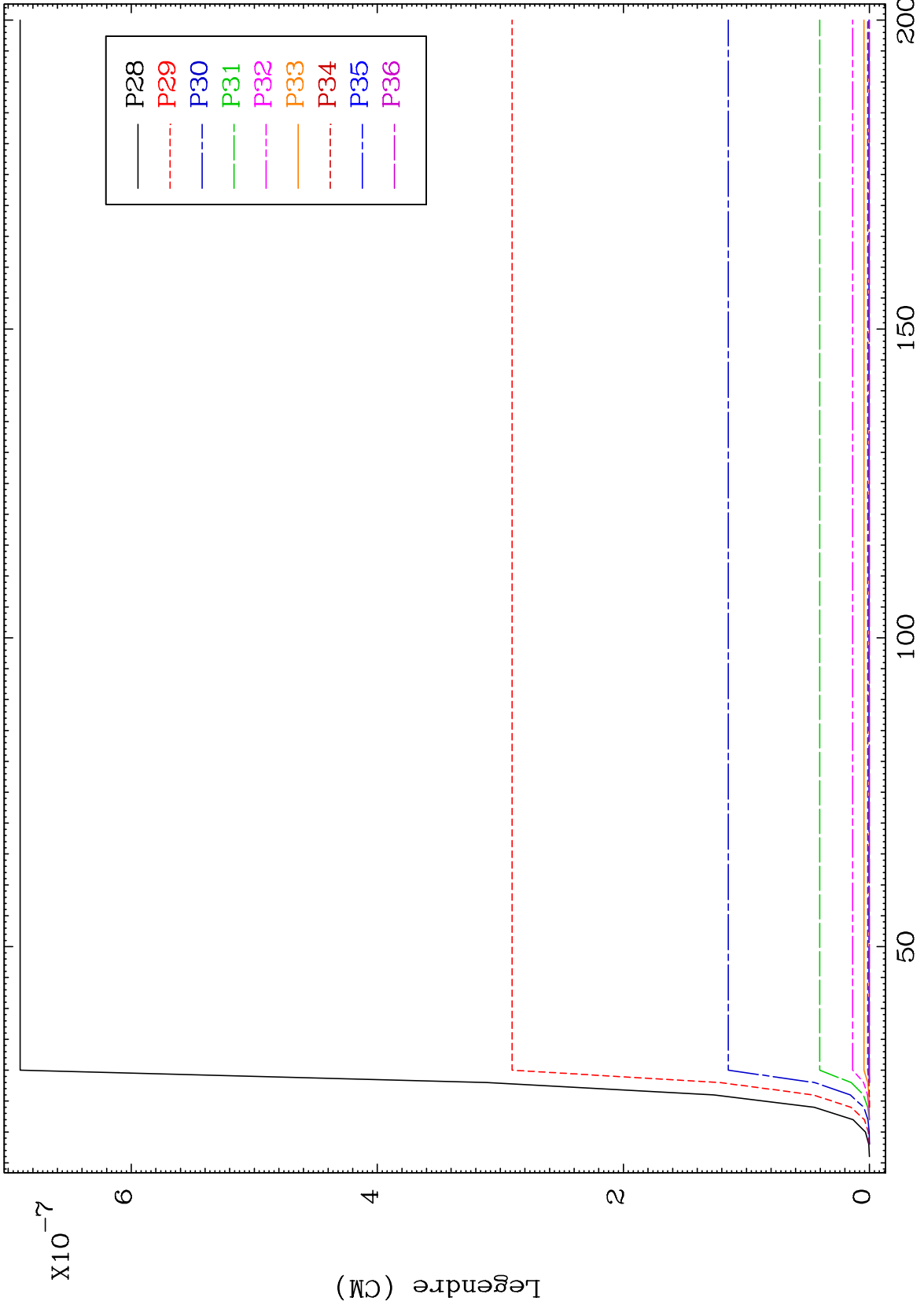
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



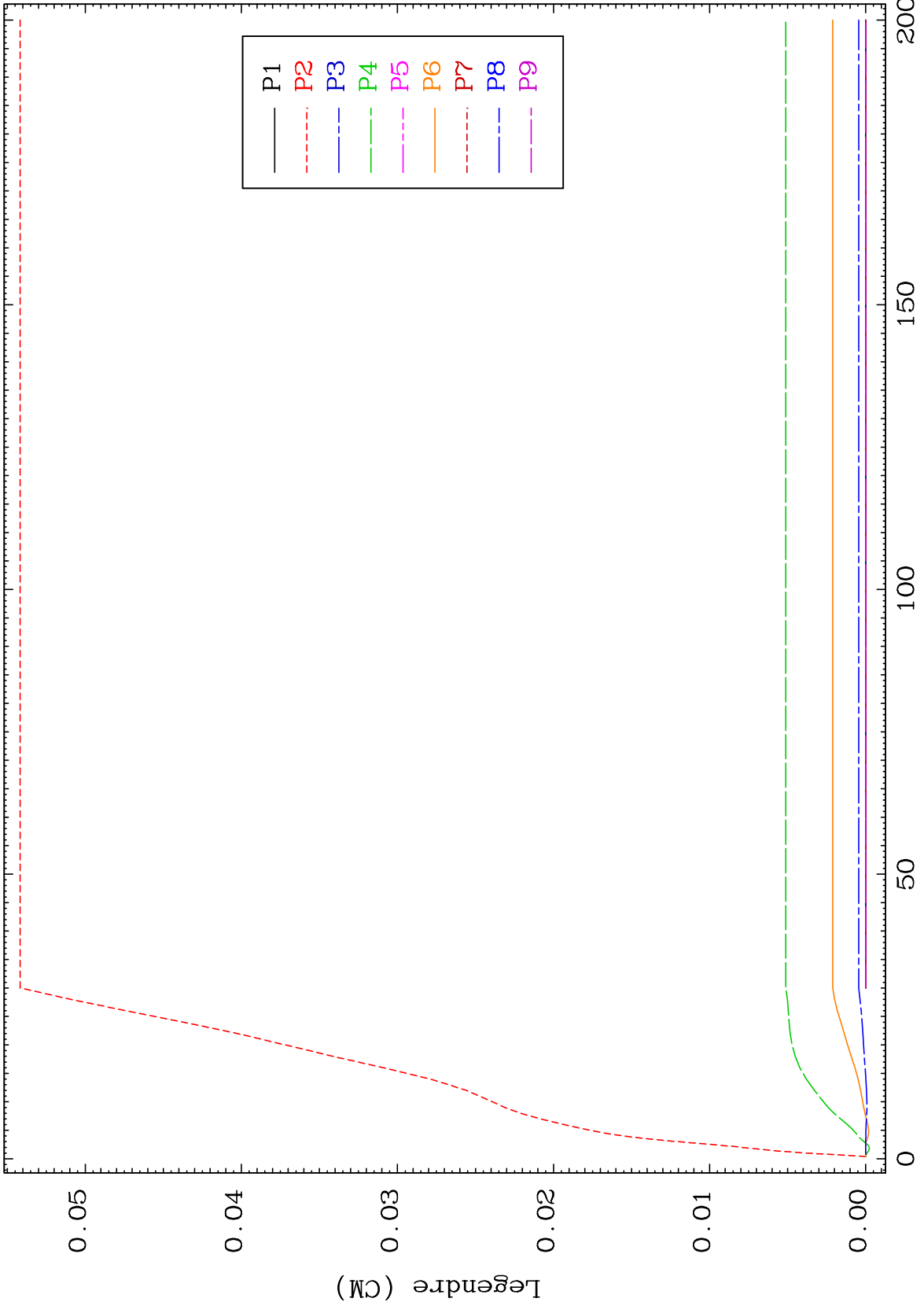
73

61-Pm-136

MAT 6116

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

61-Pm-136



74

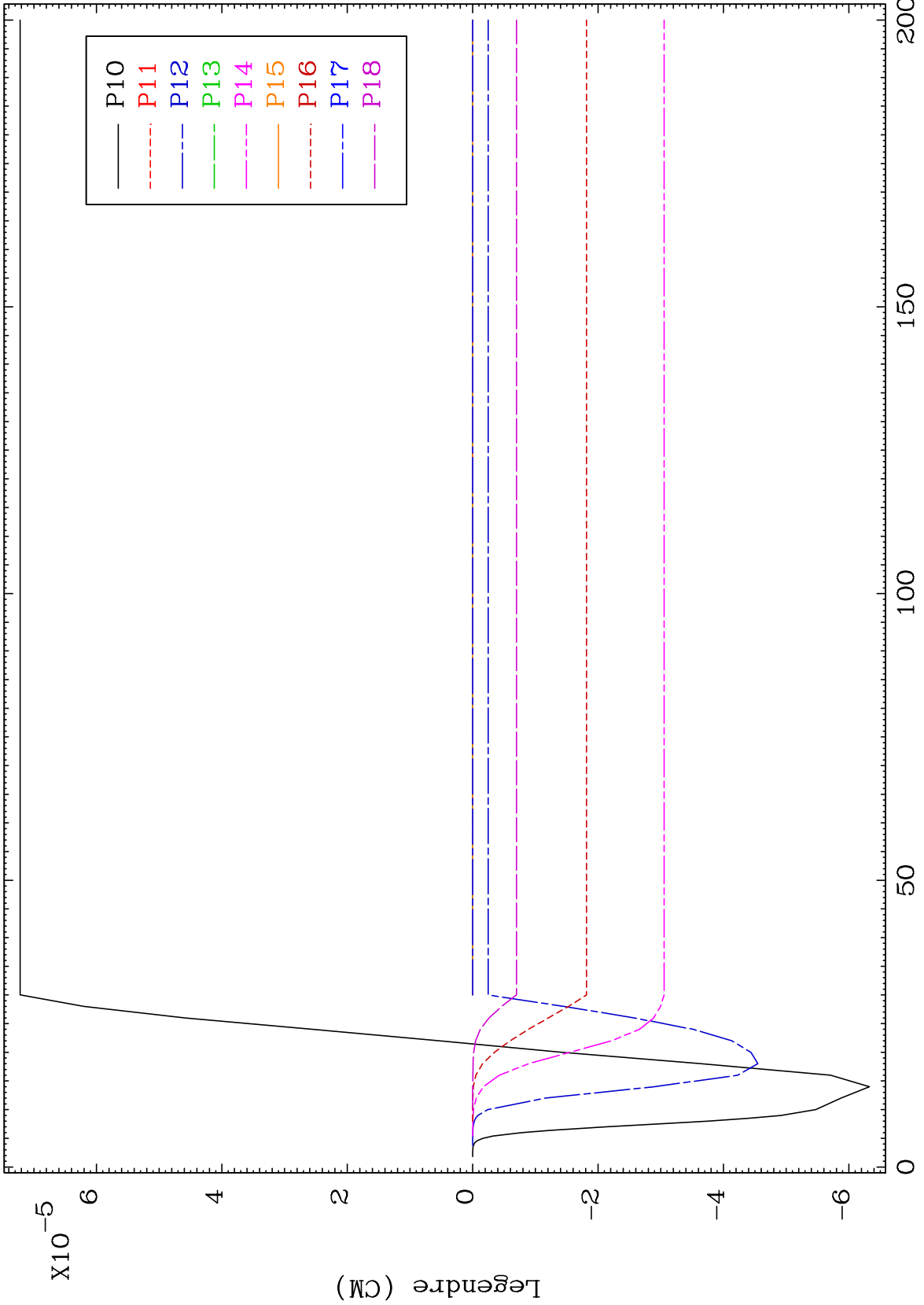
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136

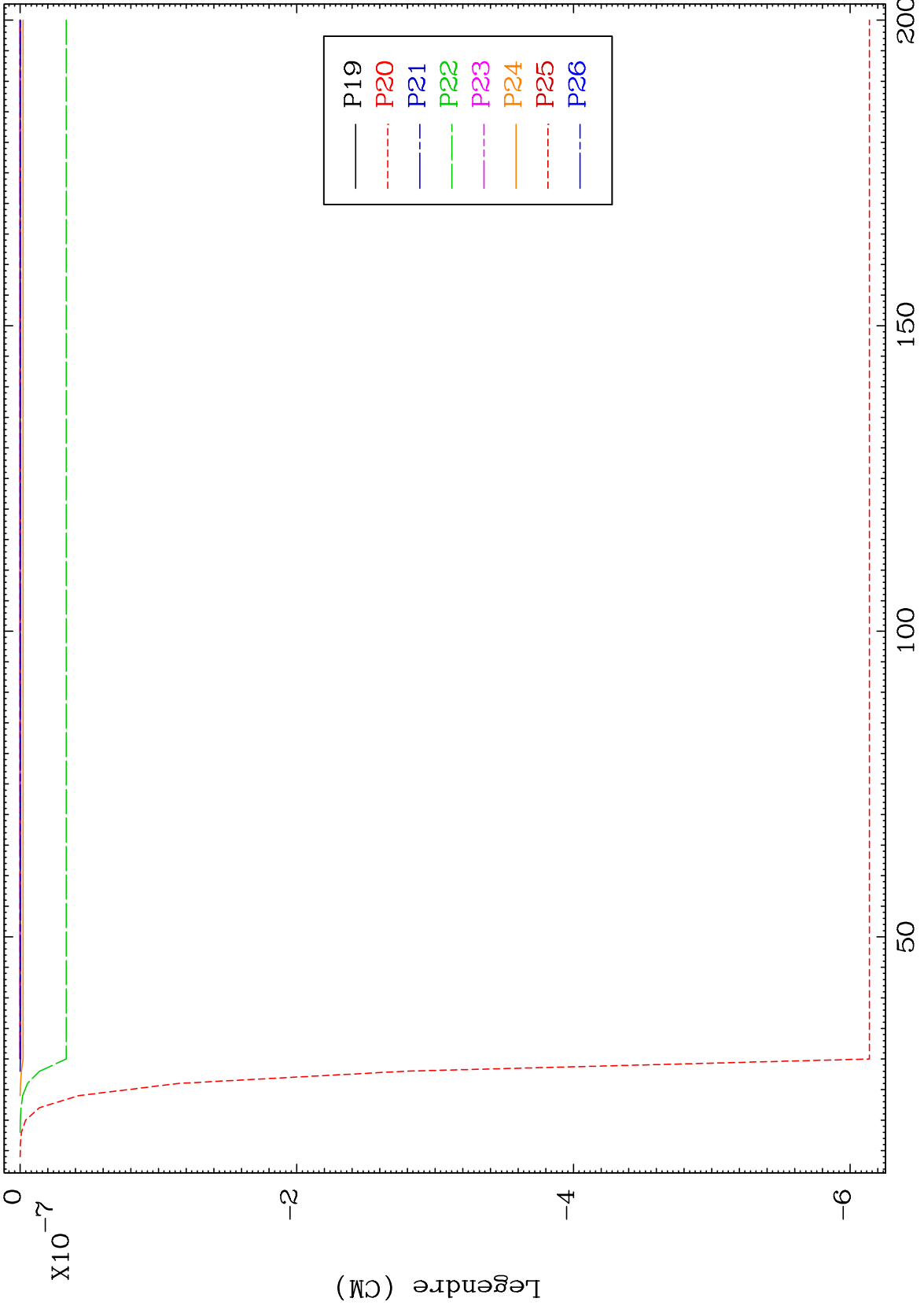


75

Incident Energy (MeV)

61-Pm-136

MAT 6116 MT= 66 (n,n') Level Legendre Coefficients 61-Pm-136

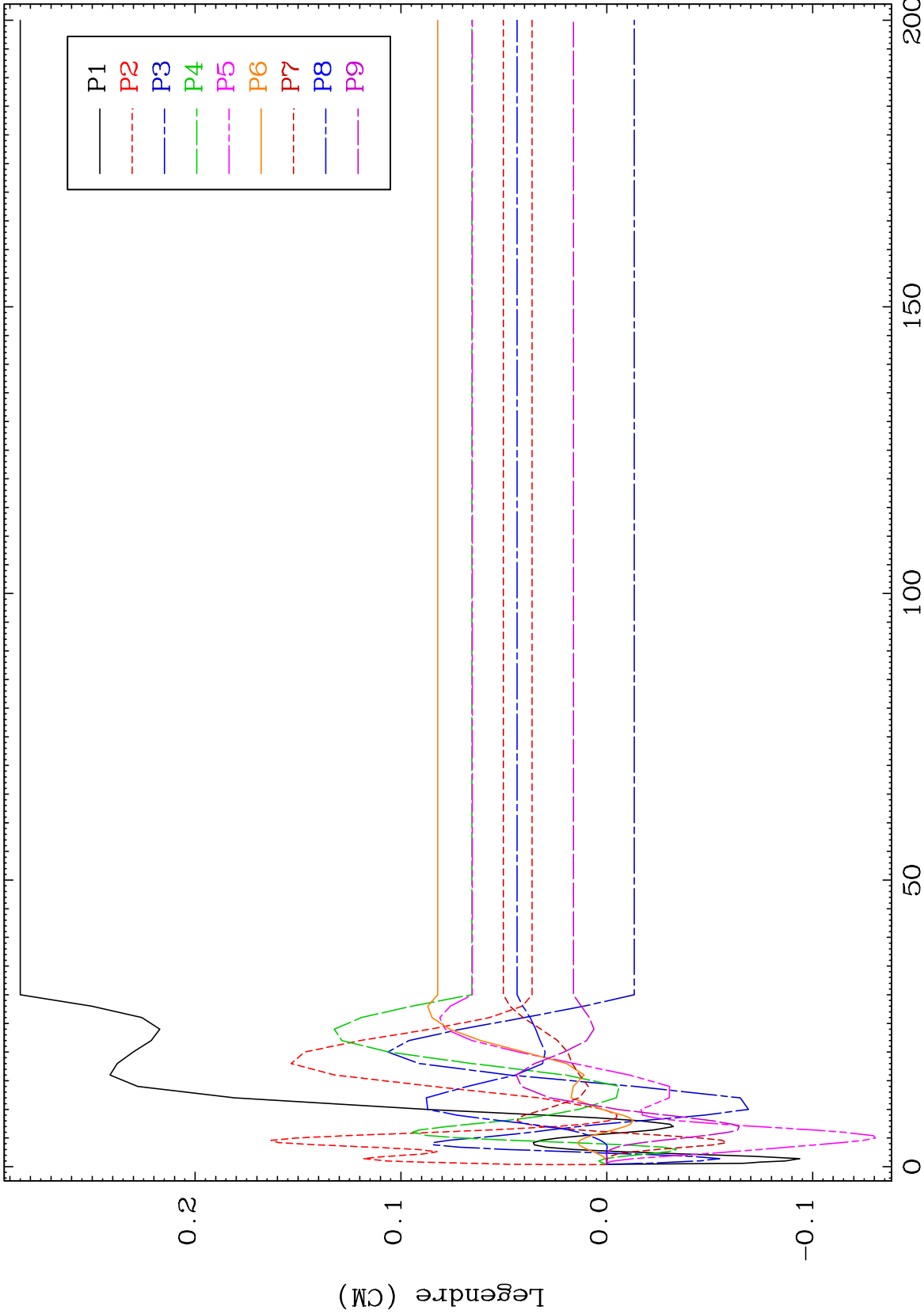


76 61-Pm-136

MAT 6116

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

61-Pm-136



77

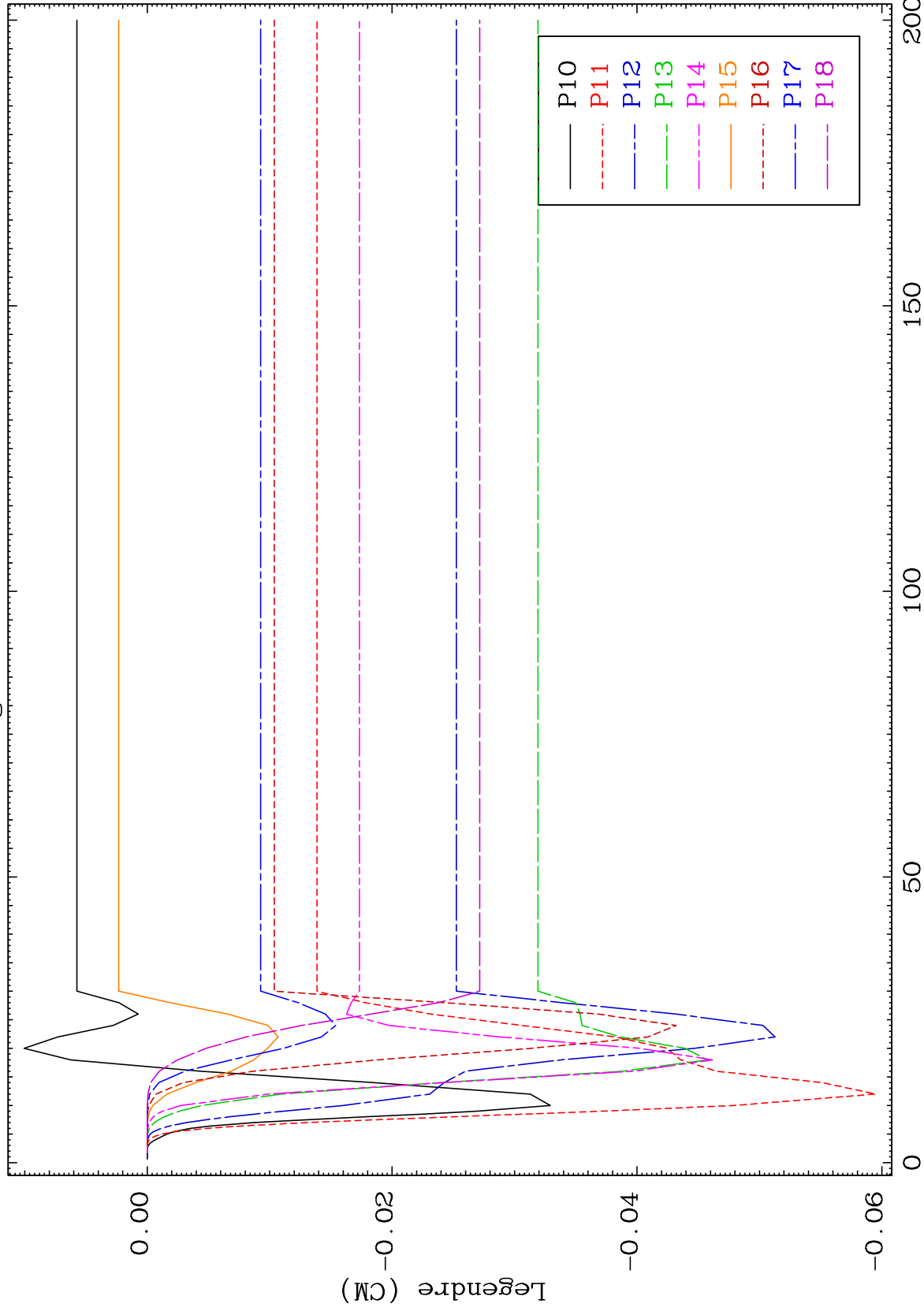
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136

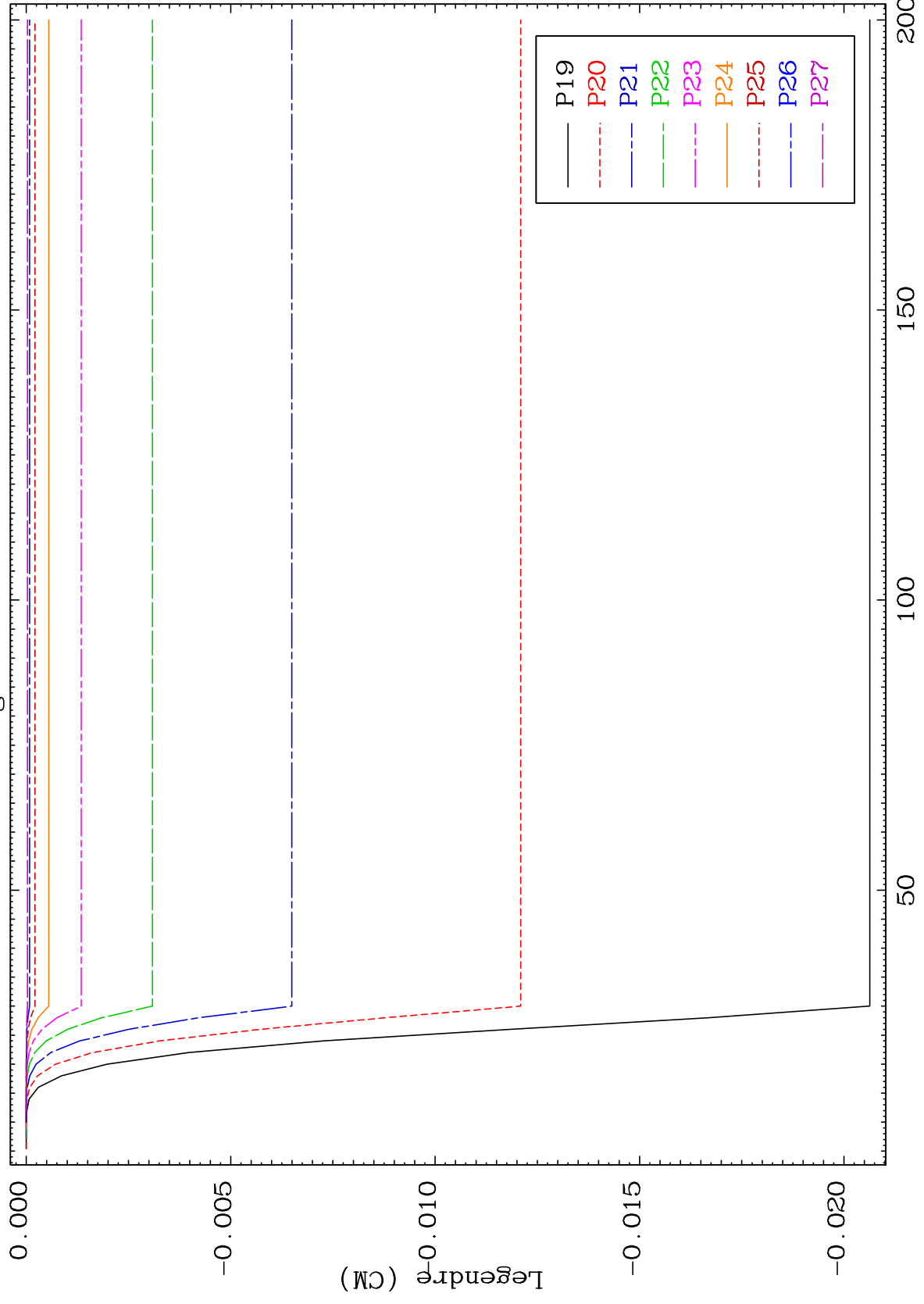


78

Incident Energy (MeV)

61-Pm-136

MAT 6116 MT= 67 (n,n') Level Legendre Coefficients 61-Pm-136



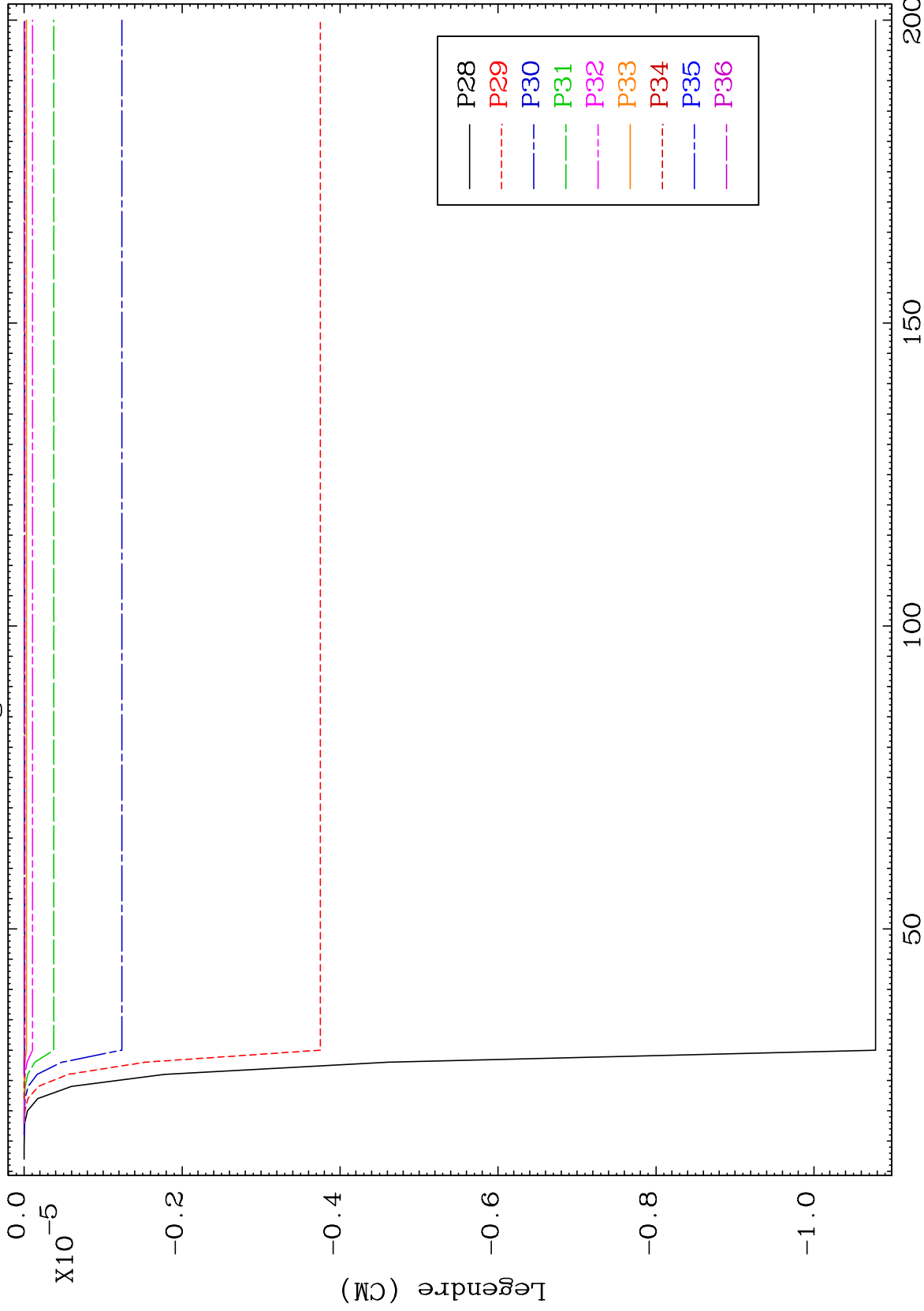
79 61-Pm-136 Incident Energy (MeV)



MAT 6116

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

61-Pm-136



61-Pm-136

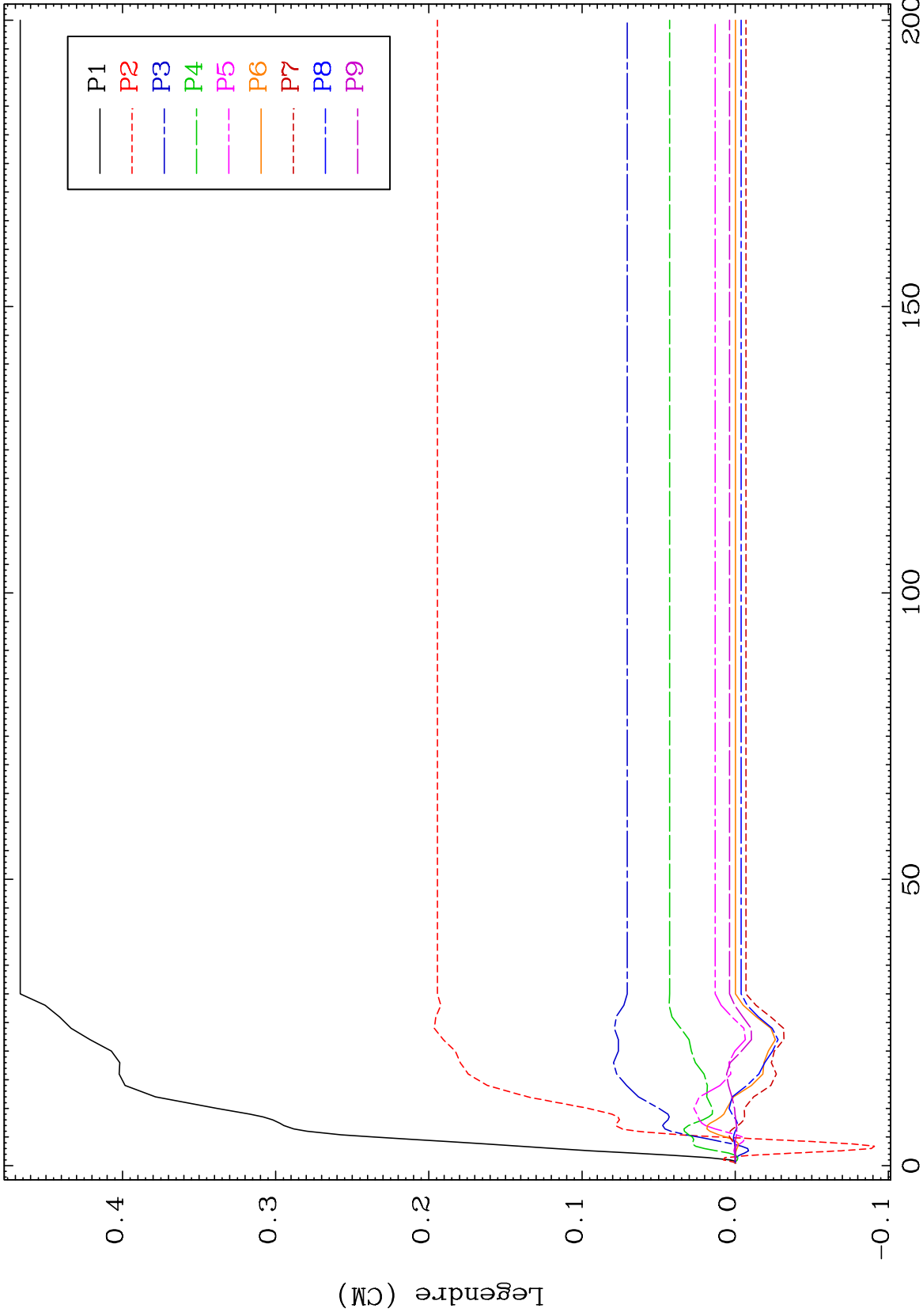
Incident Energy (MeV)

80

MAT 6116

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

61-Pm-136



81

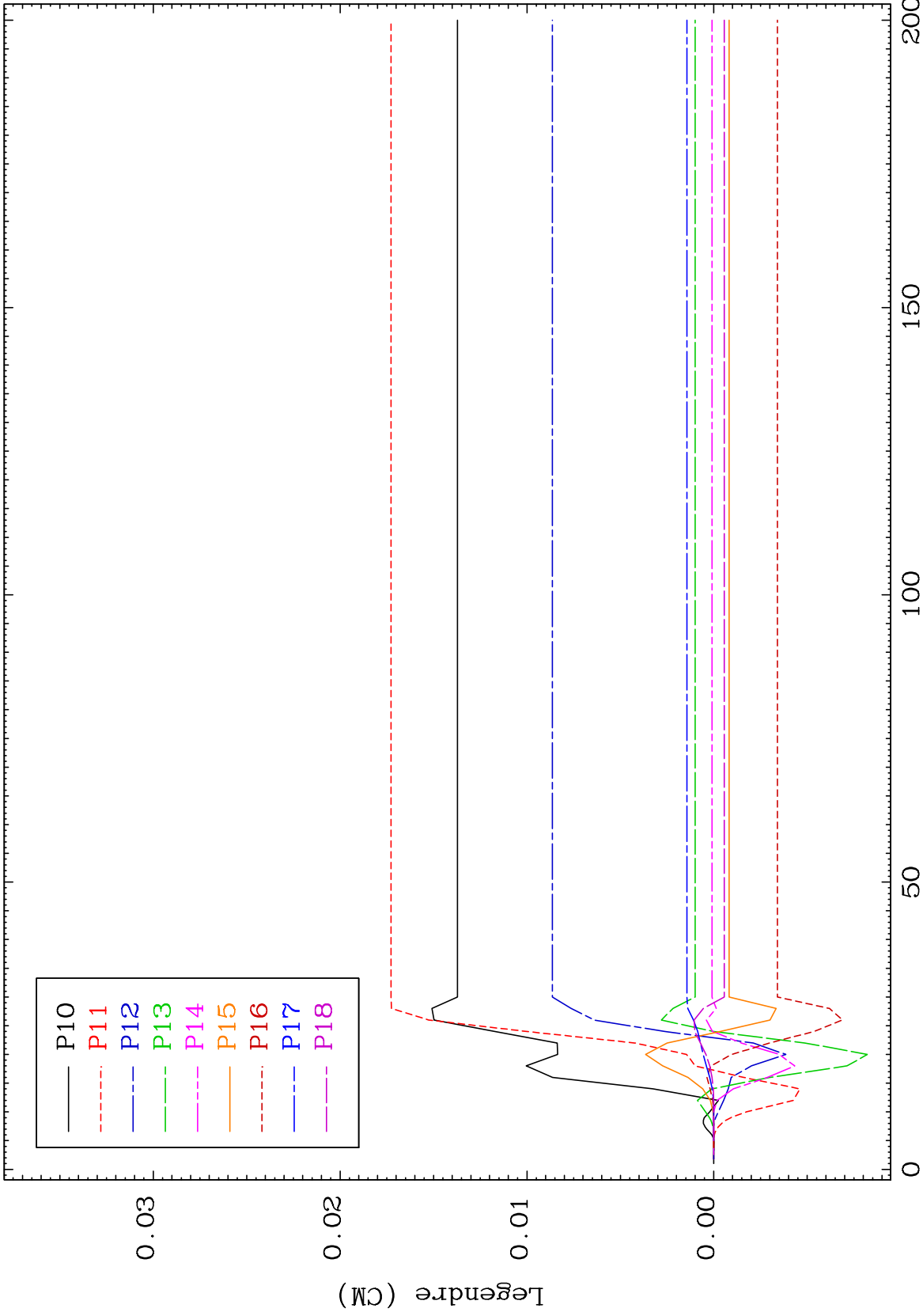
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



82

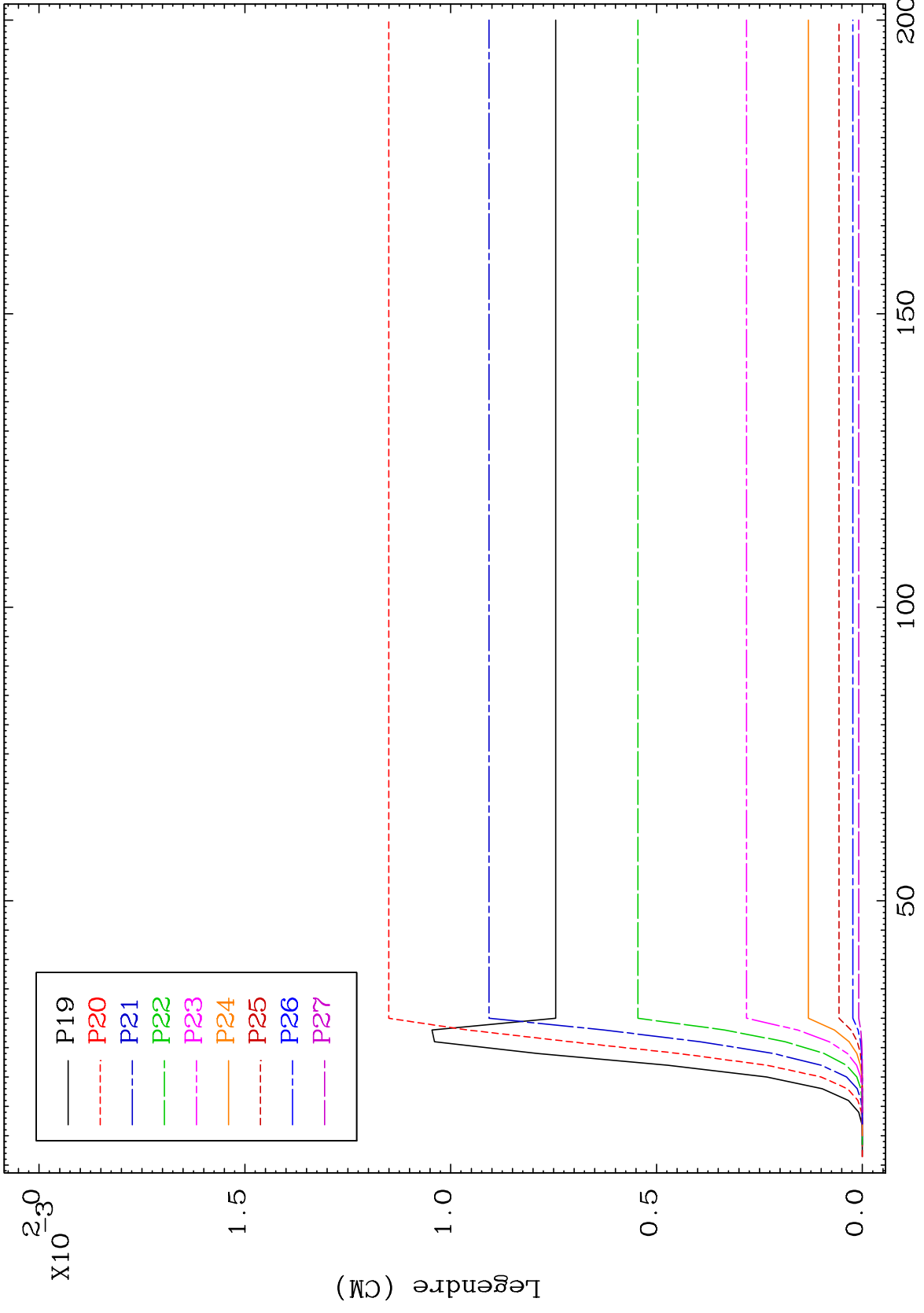
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

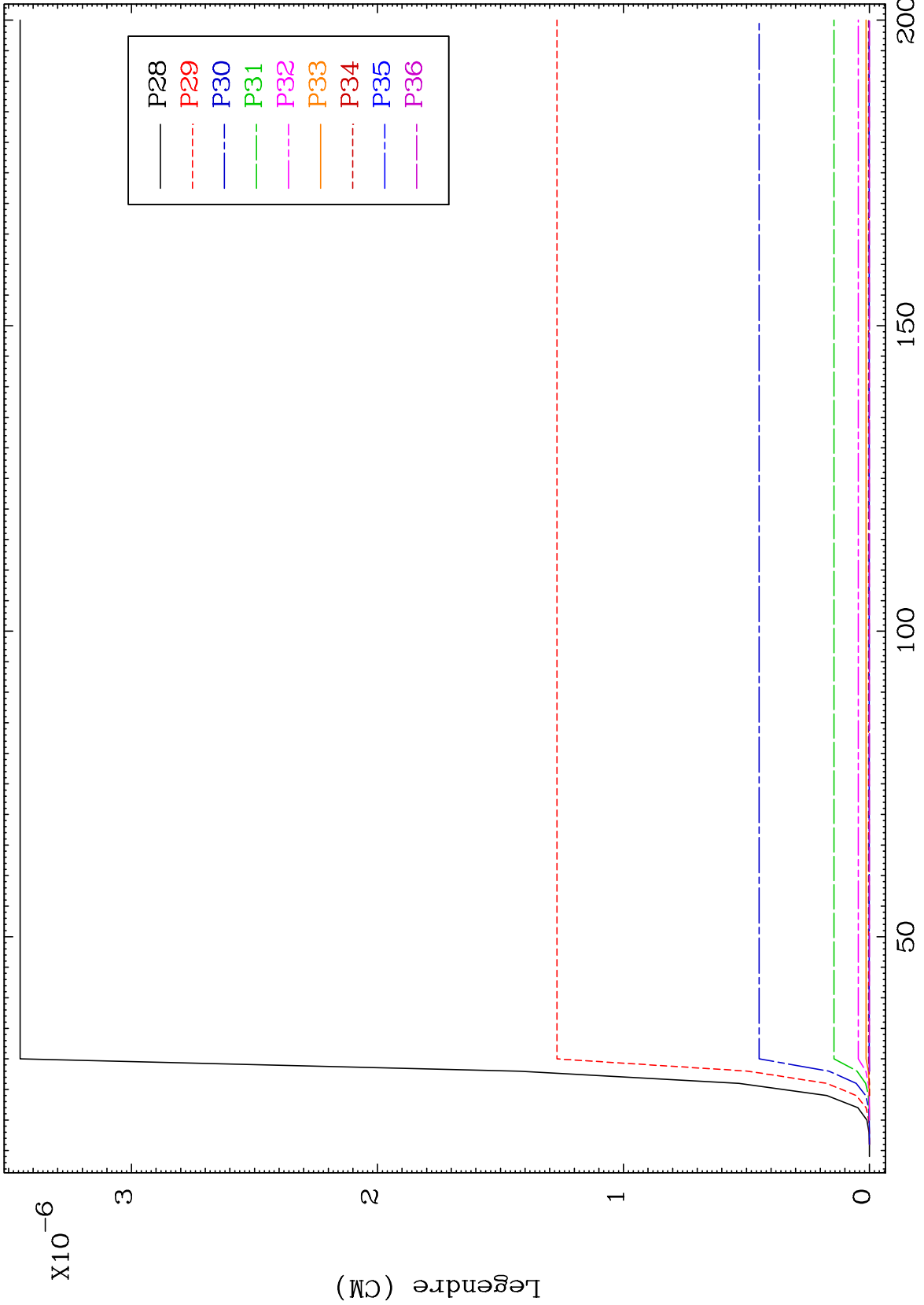
61-Pm-136



MAT 6116

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

61-Pm-136



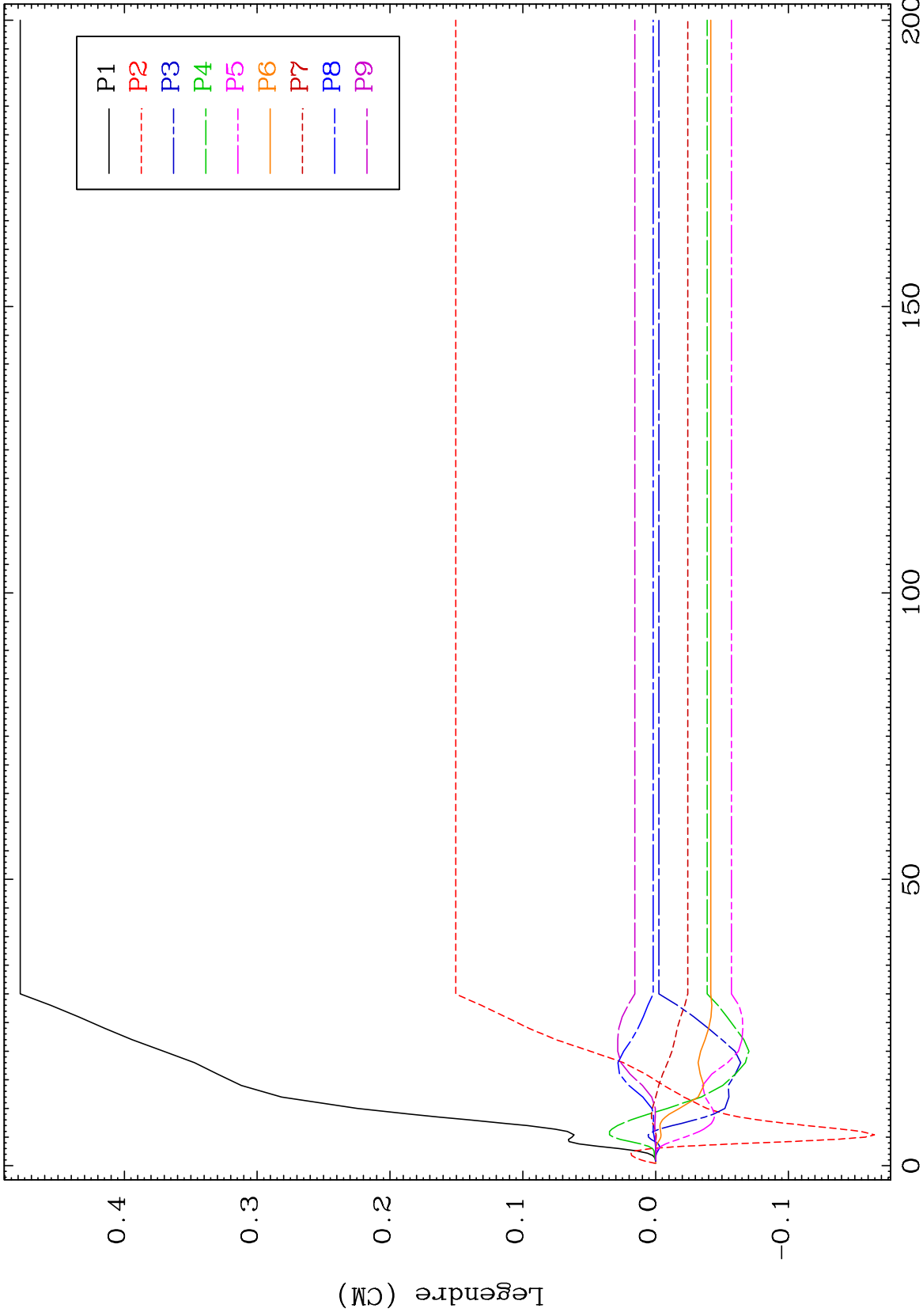
84

61-Pm-136

MAT 6116

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

61-Pm-136



85

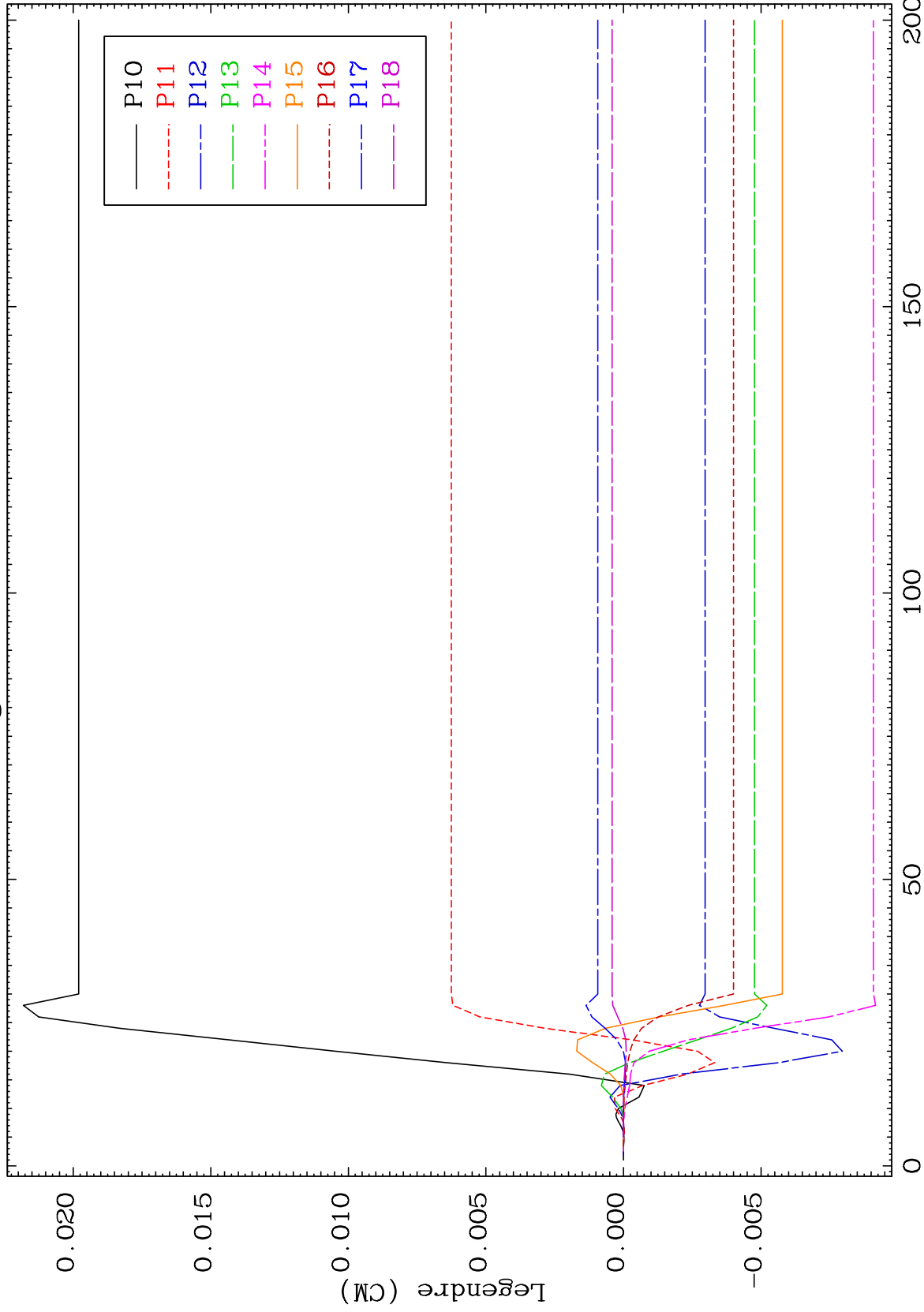
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



86

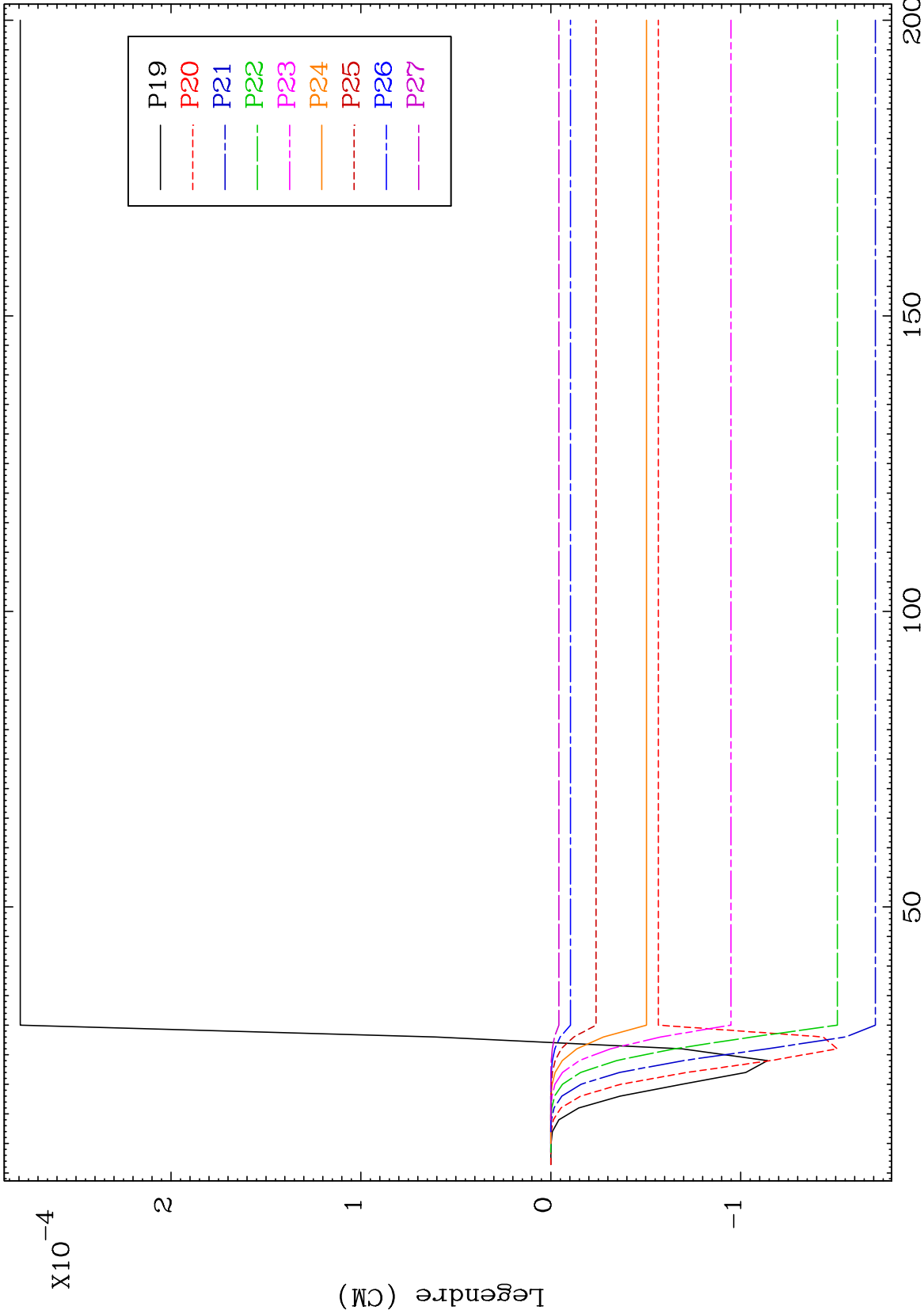
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136

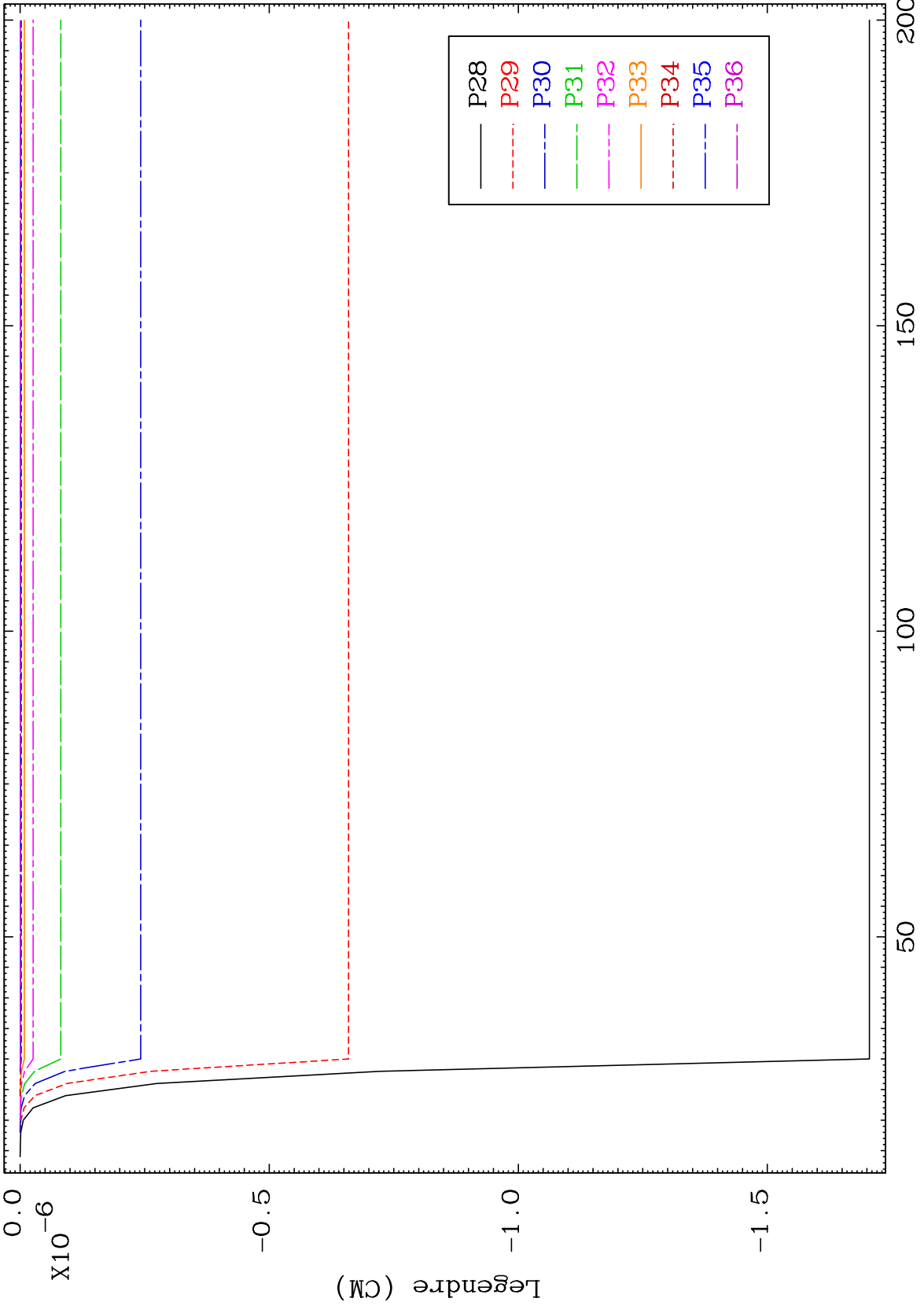


87

61-Pm-136



MAT 6116 MT= 69 (n,n') Level Legendre Coefficients 61-Pm-136

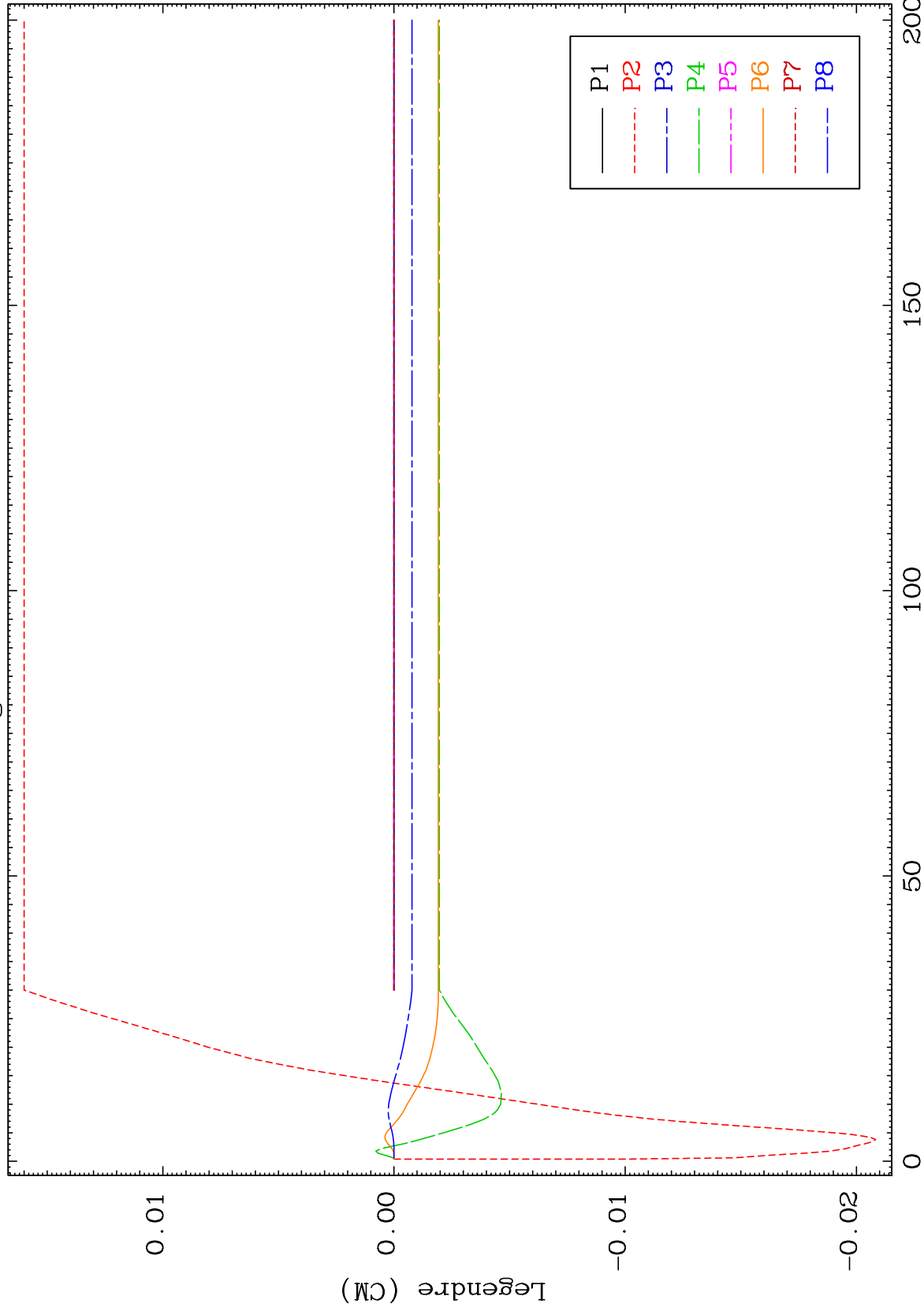


88 61-Pm-136

MAT 6116

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

61-Pm-136



89

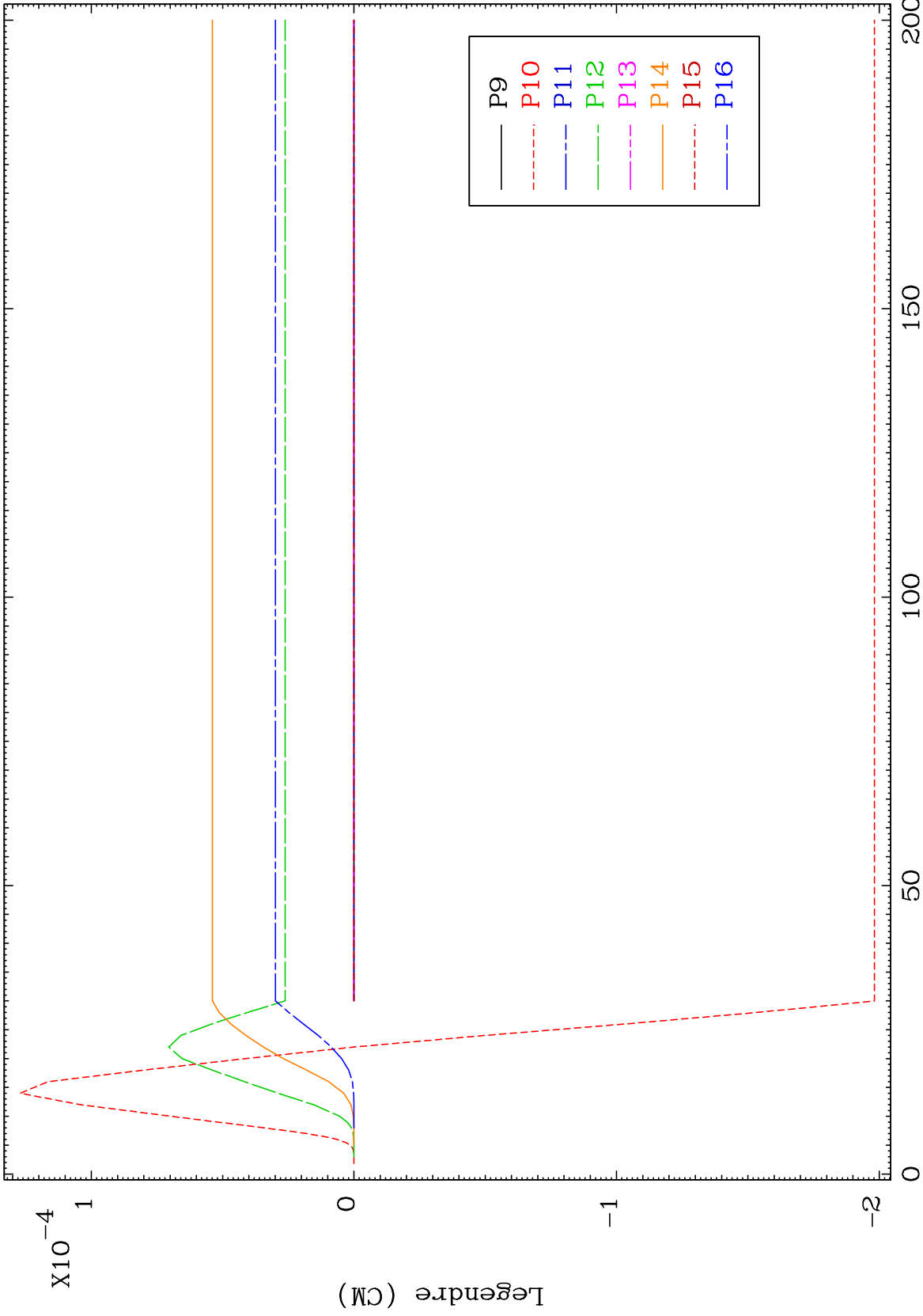
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136

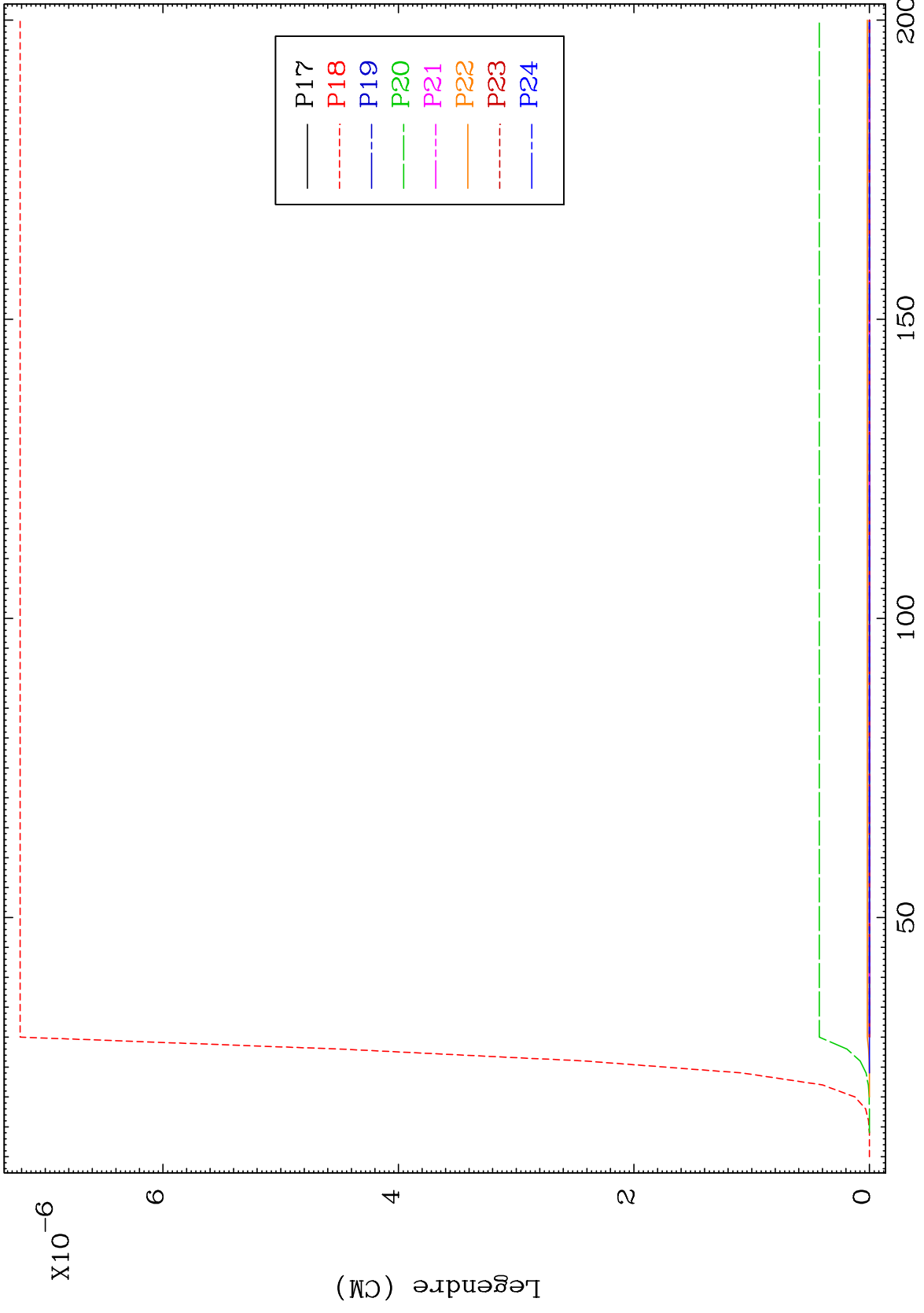


90

Incident Energy (MeV)

61-Pm-136

MAT 6116 MT= 70 (n,n') Level Legendre Coefficients 61-Pm-136

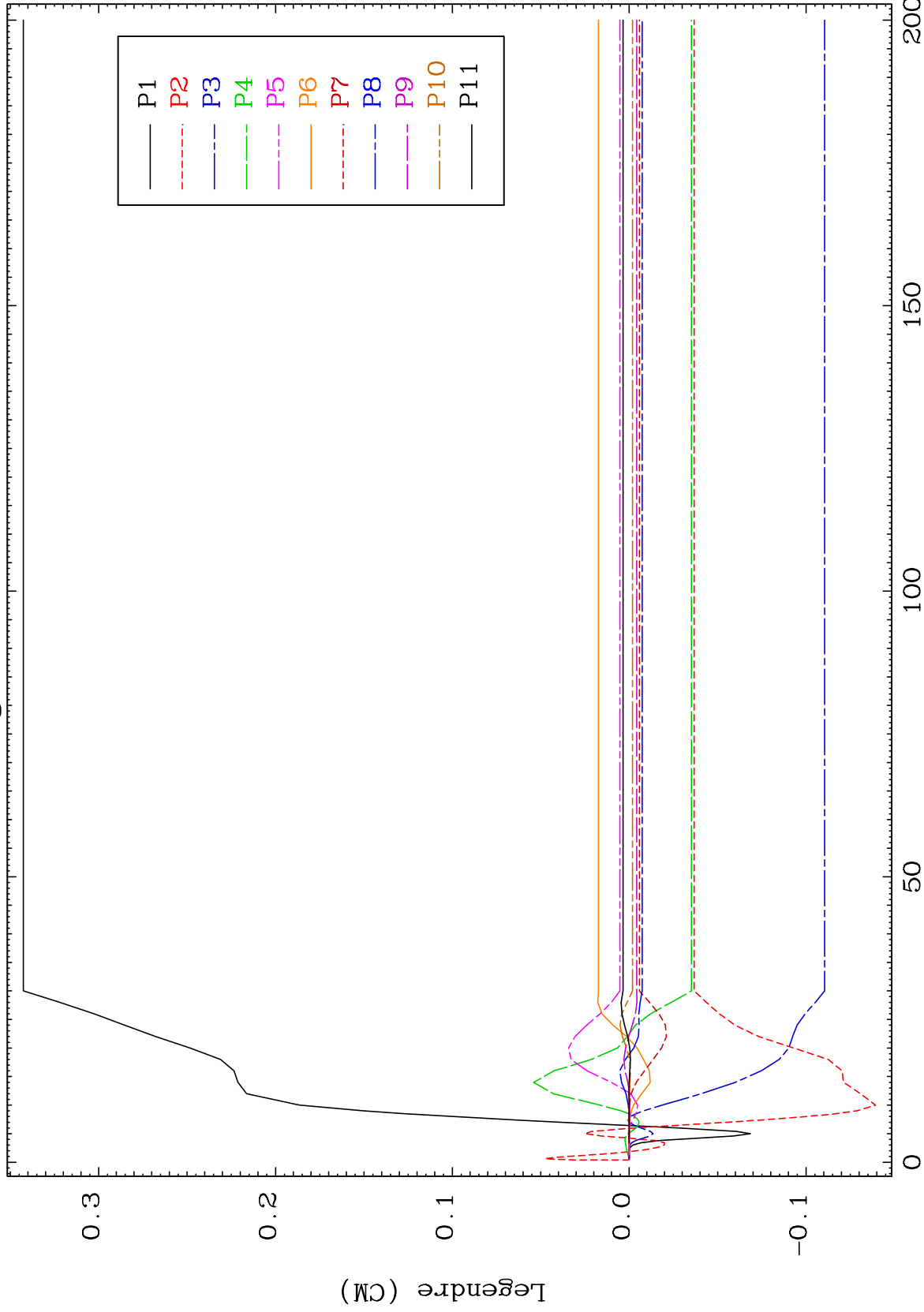


91 61-Pm-136

MAT 6116

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

61-Pm-136



92

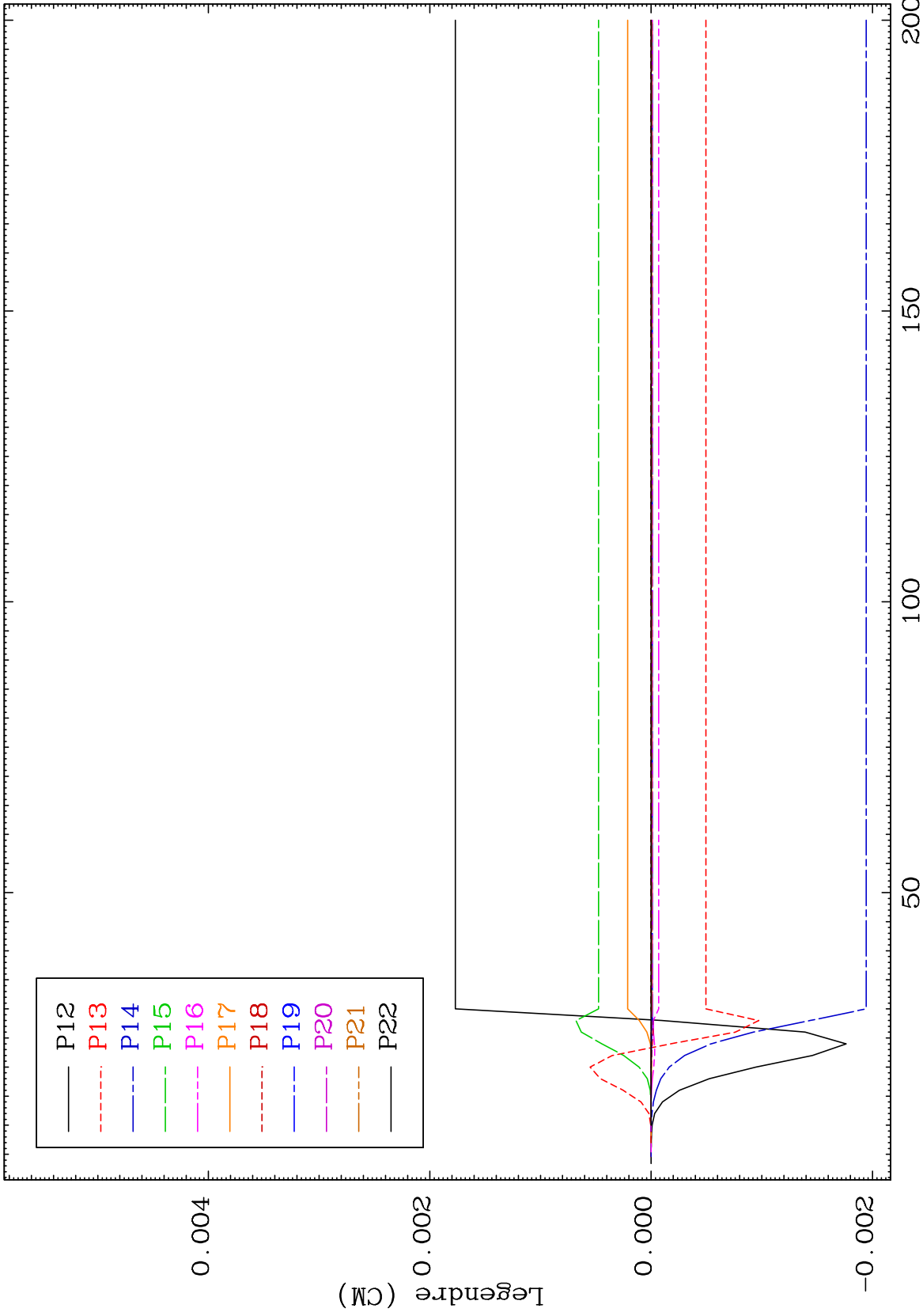
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



93

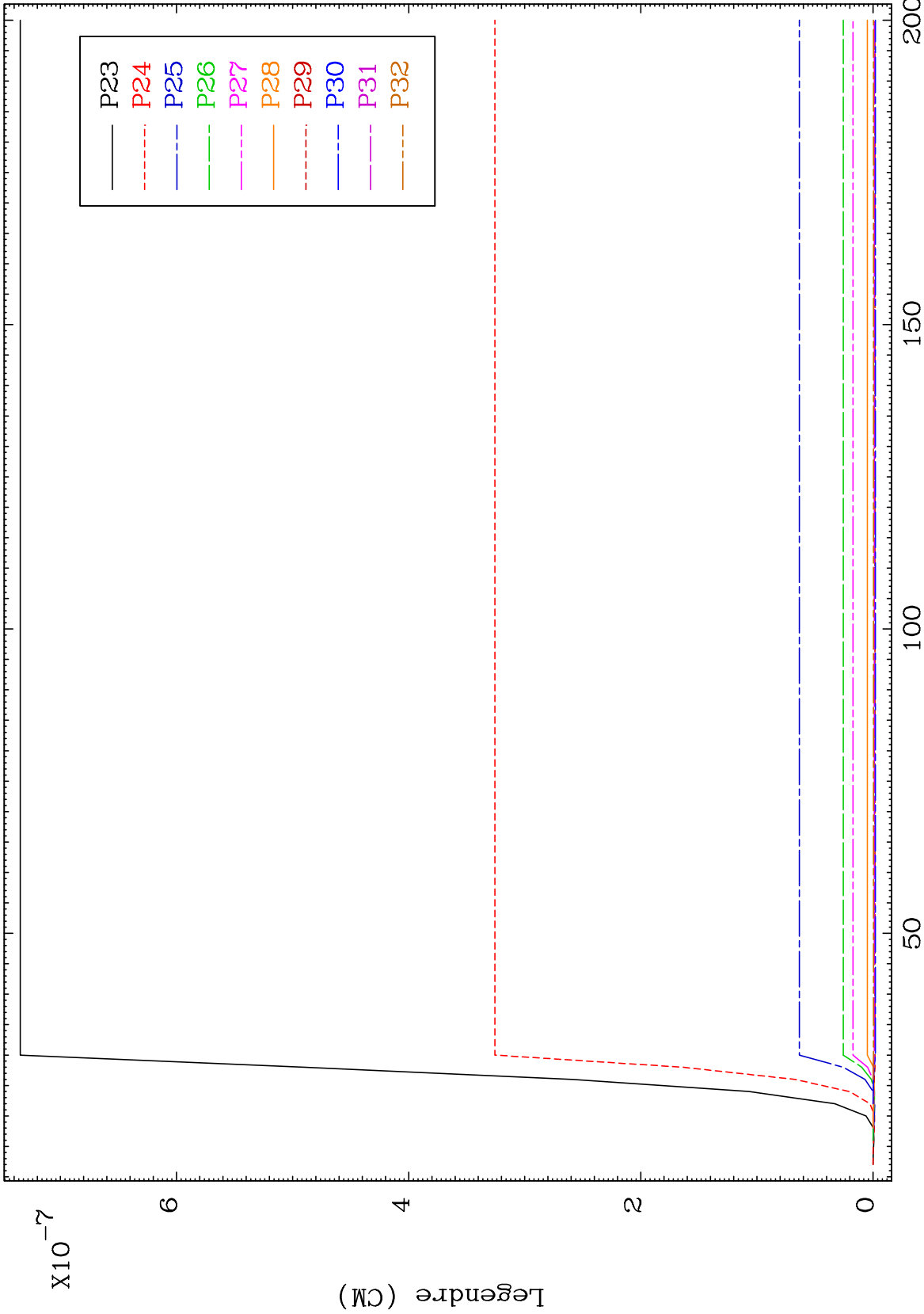
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

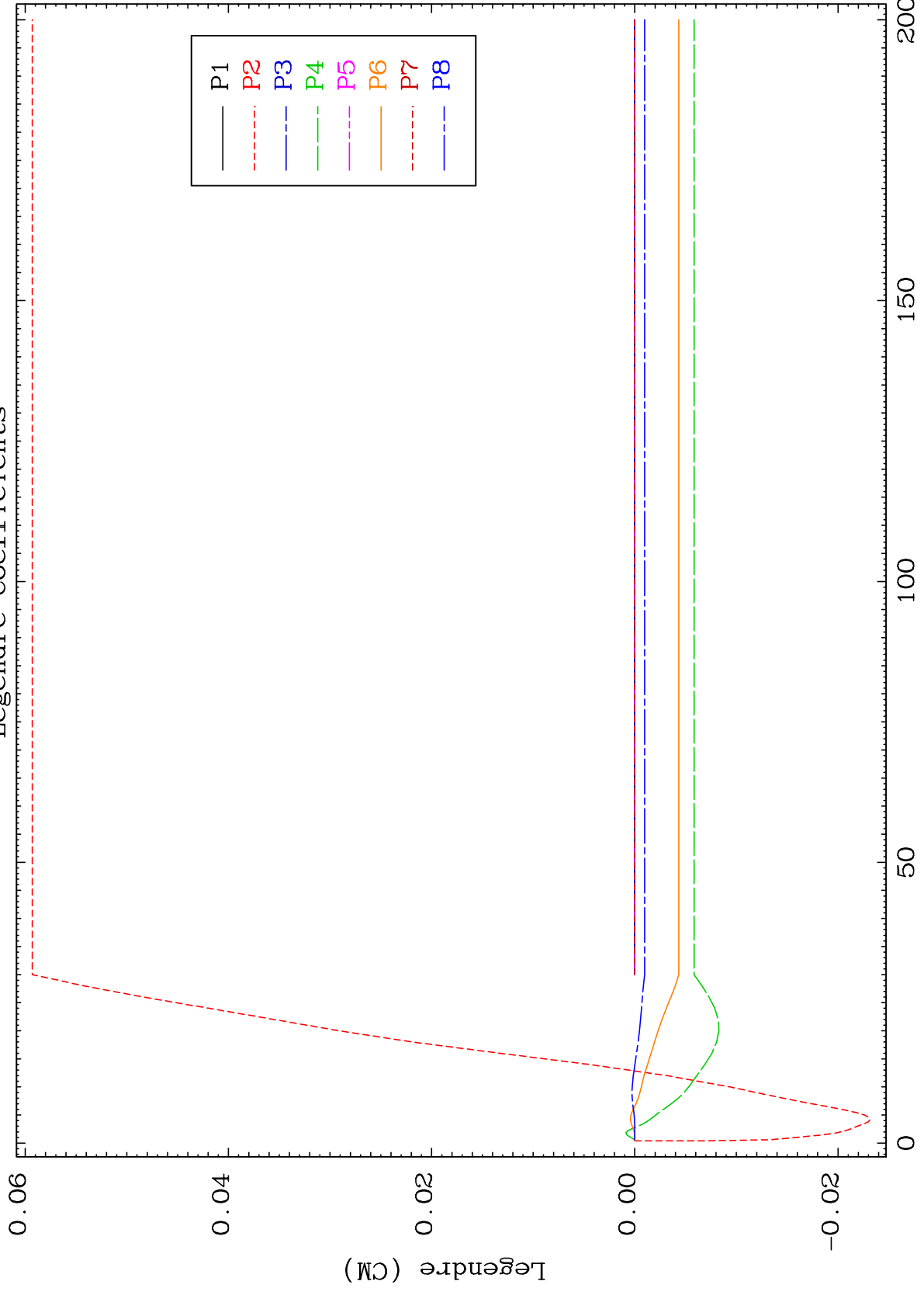
61-Pm-136



94

61-Pm-136

MAT 6116 MT= 72 (n,n') Level Legendre Coefficients 61-Pm-136



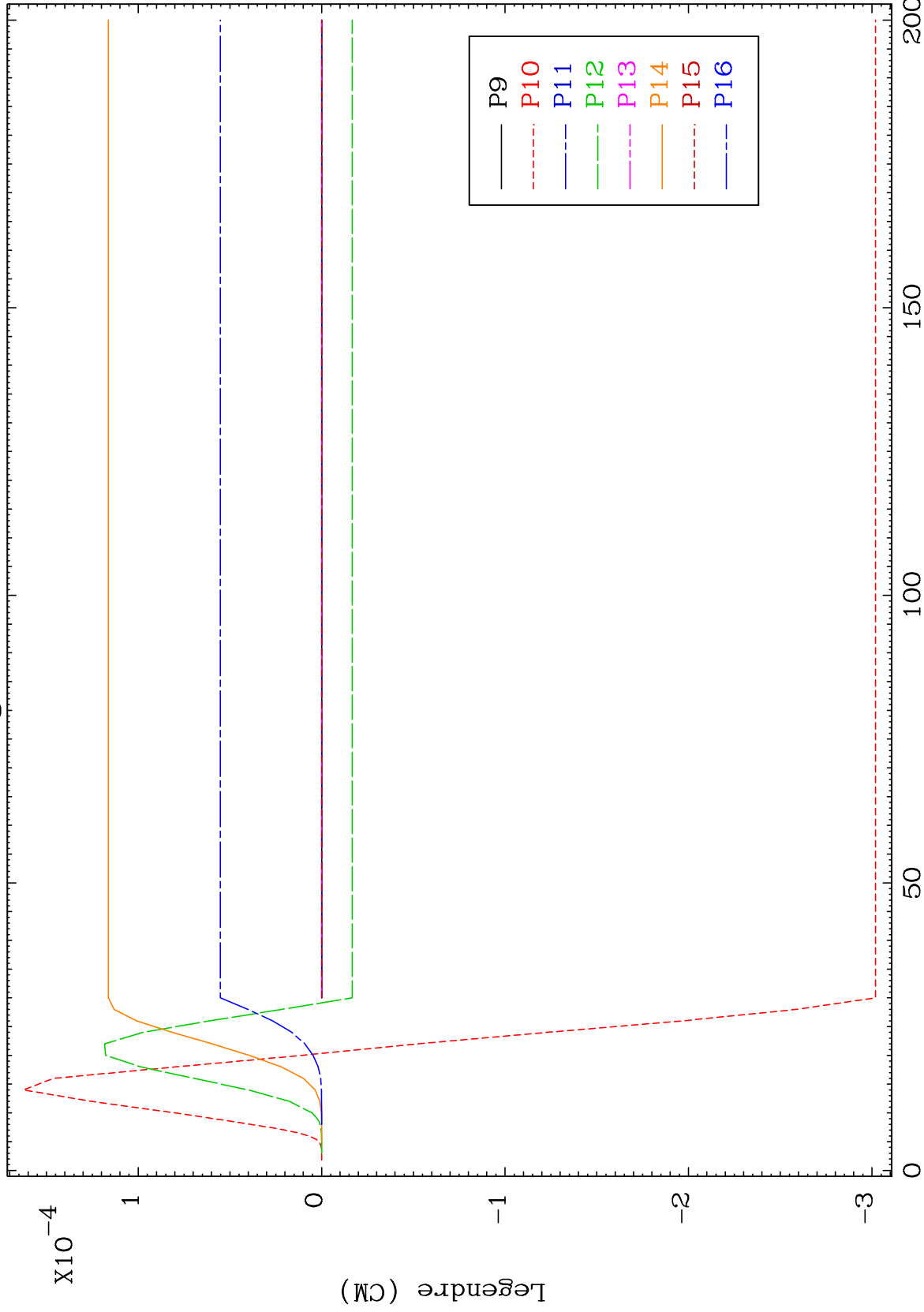
95 Incident Energy (MeV) 61-Pm-136



MAT 6116

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

61-Pm-136

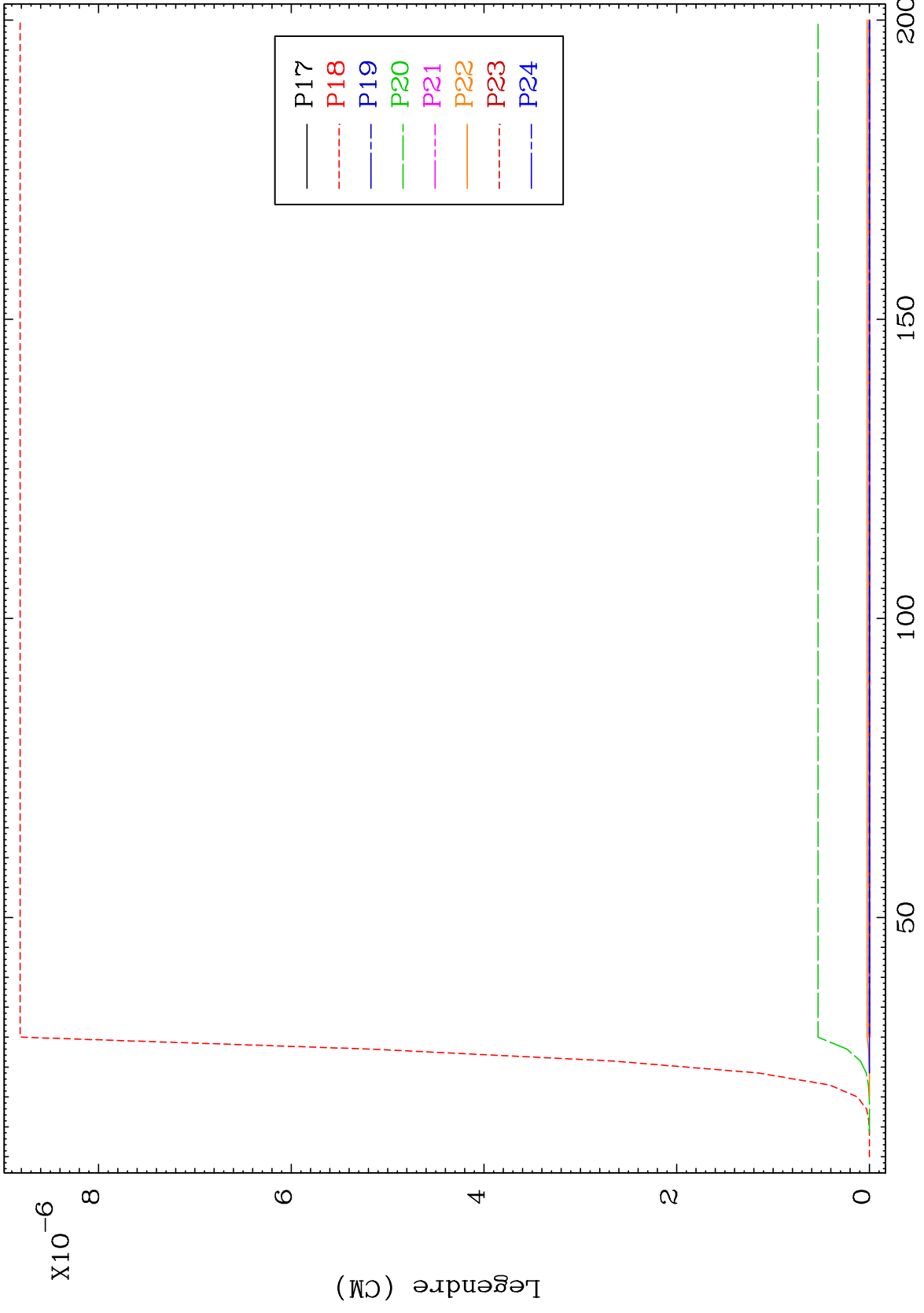


96

Incident Energy (MeV)

61-Pm-136

MAT 6116 MT= 72 (n,n') Level Legendre Coefficients 61-Pm-136

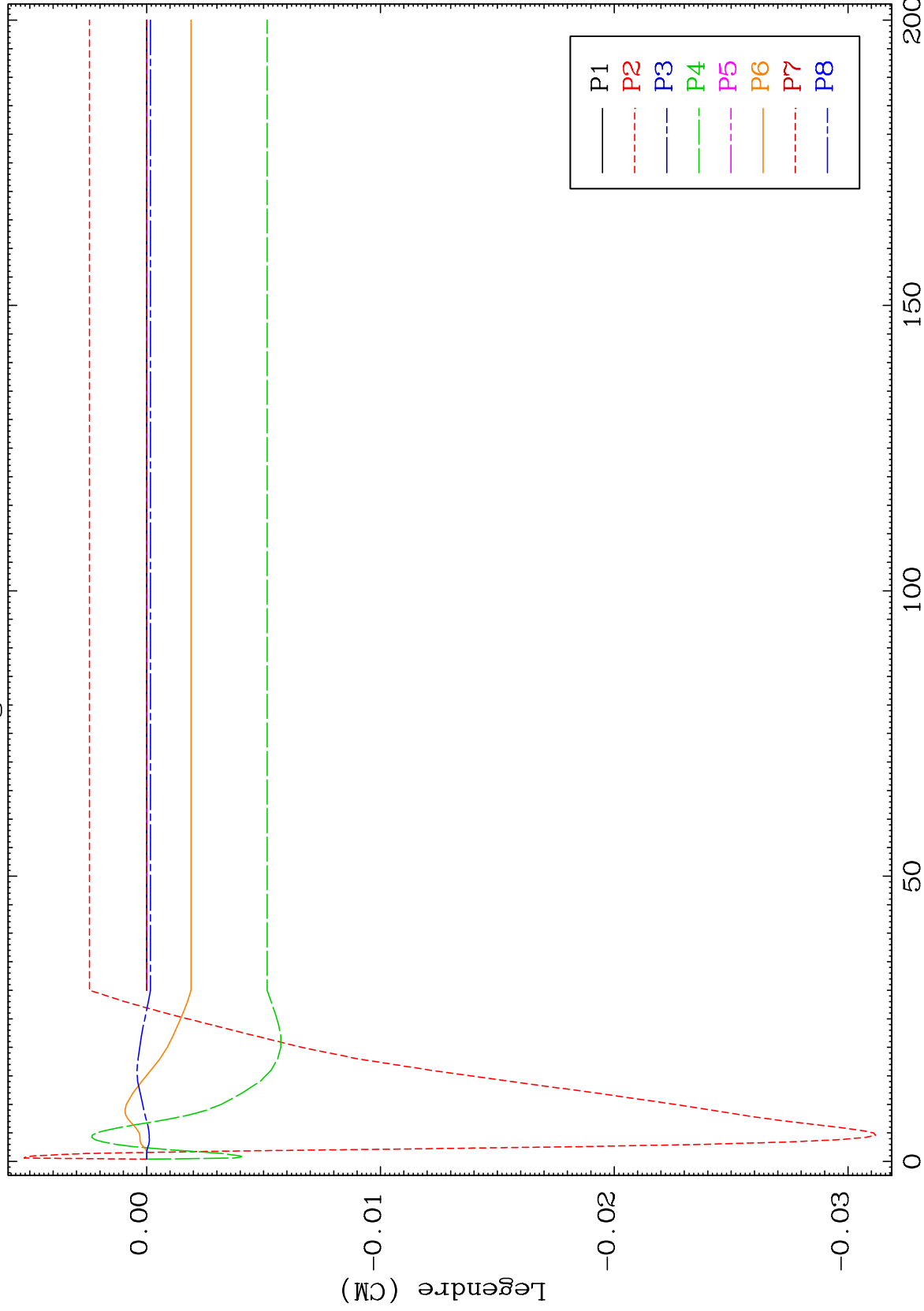


97 61-Pm-136

MAT 6116

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

61-Pm-136



98

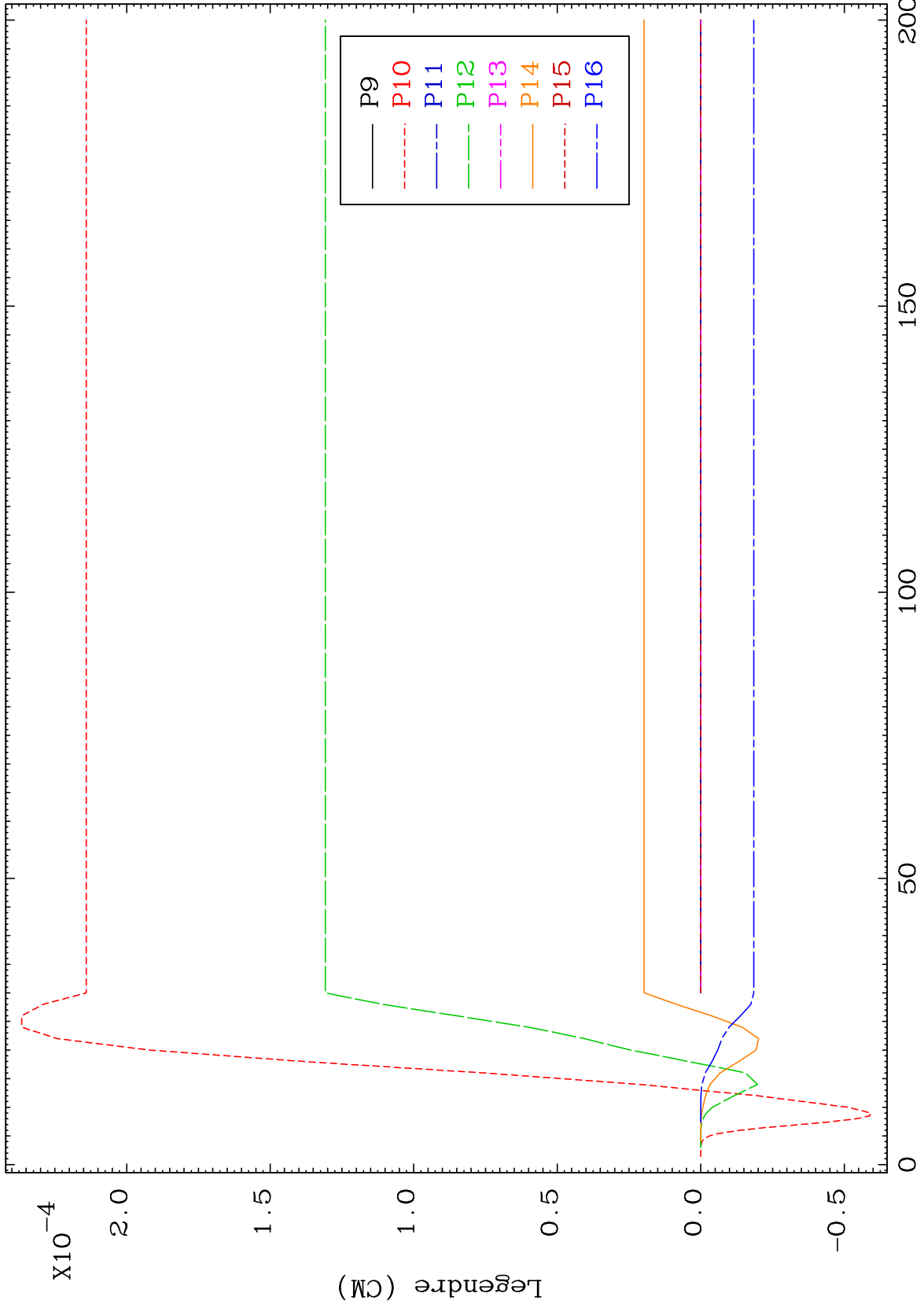
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136

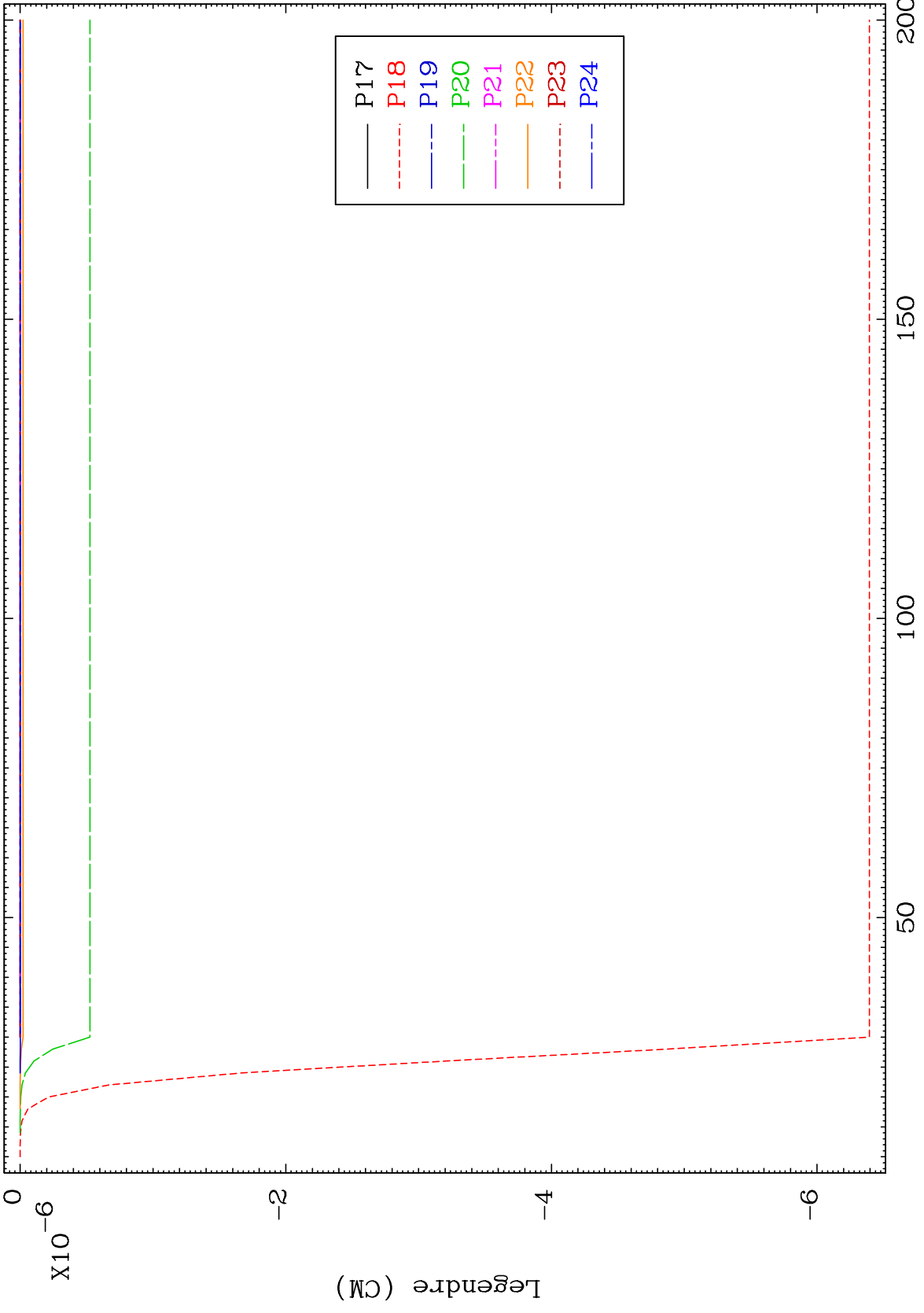


99

Incident Energy (MeV)

61-Pm-136

MAT 6116 MT= 73 (n,n') Level Legendre Coefficients 61-Pm-136

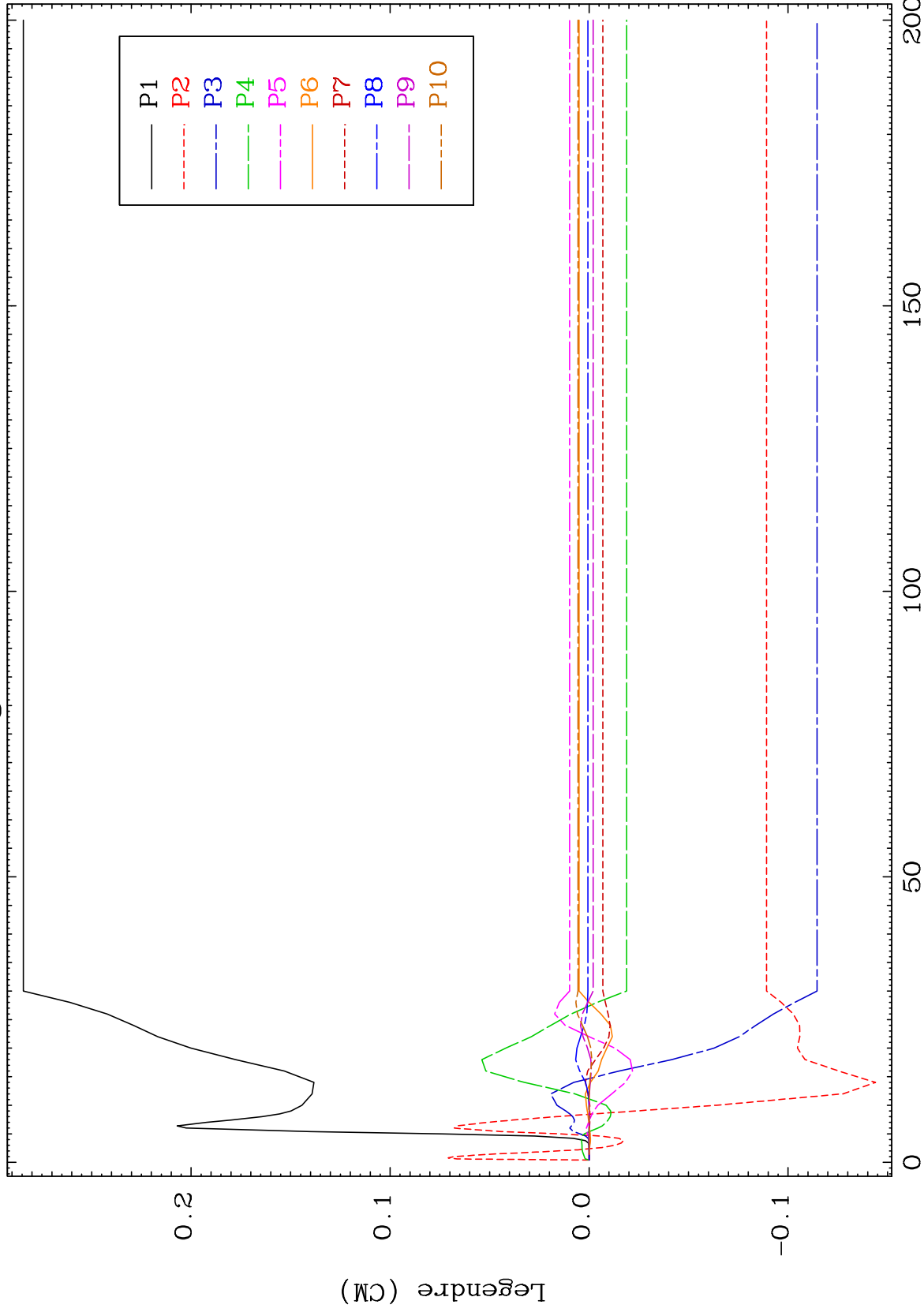


61-Pm-136

MAT 6116

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

61-Pm-136



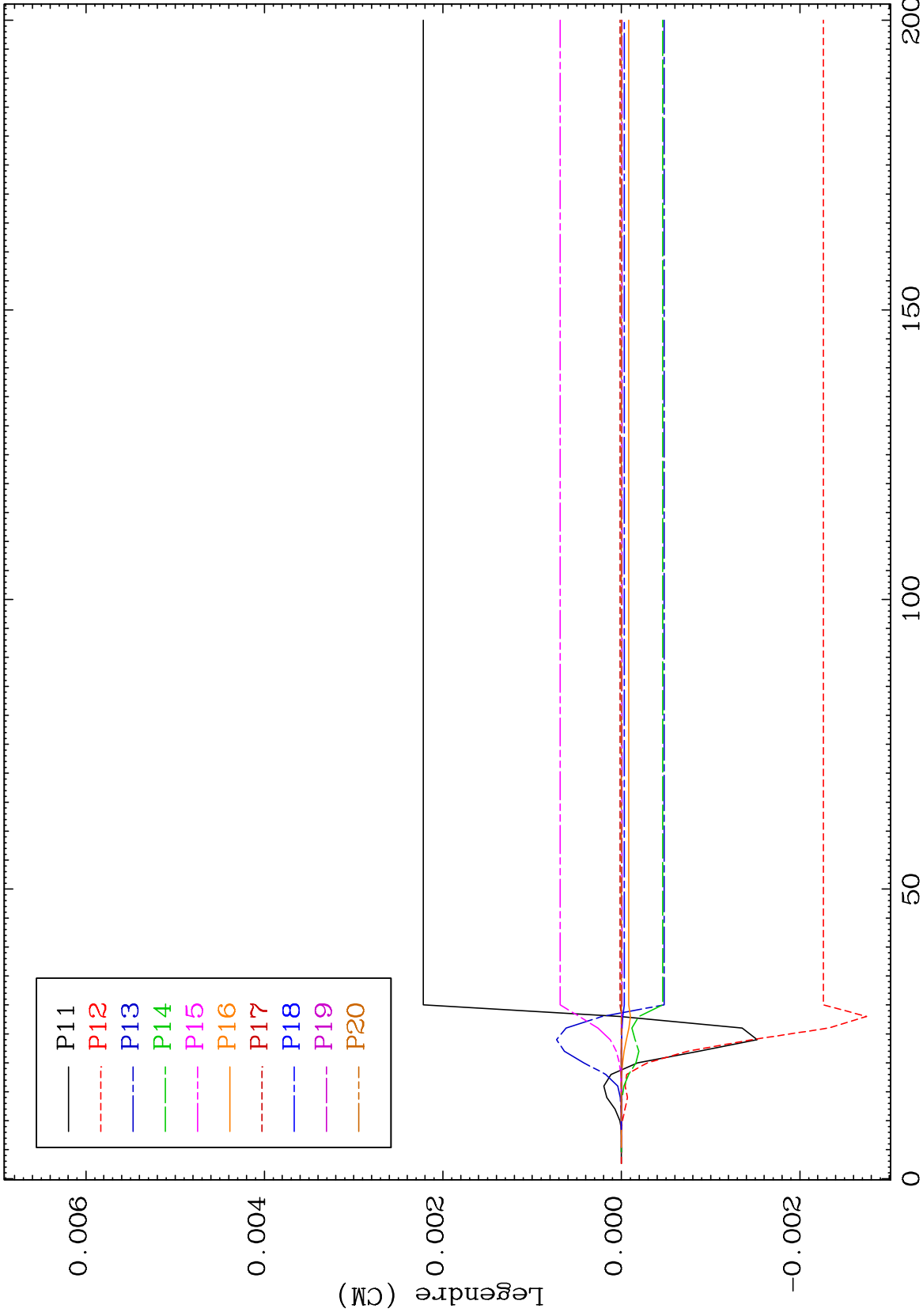
101

61-Pm-136

MAT 6116

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

61-Pm-136



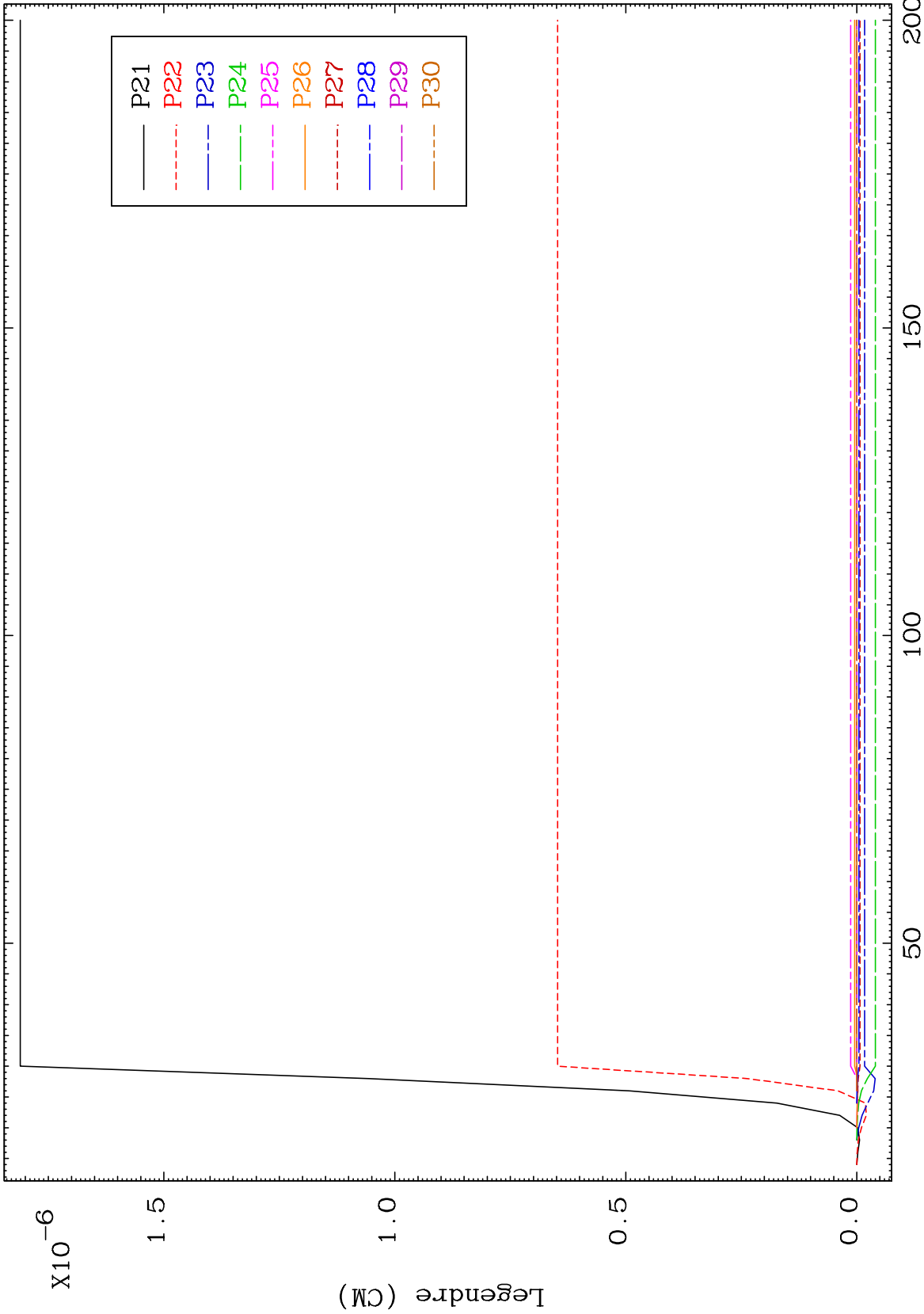
102

61-Pm-136

MAT 6116

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

61-Pm-136



103

Incident Energy (MeV)

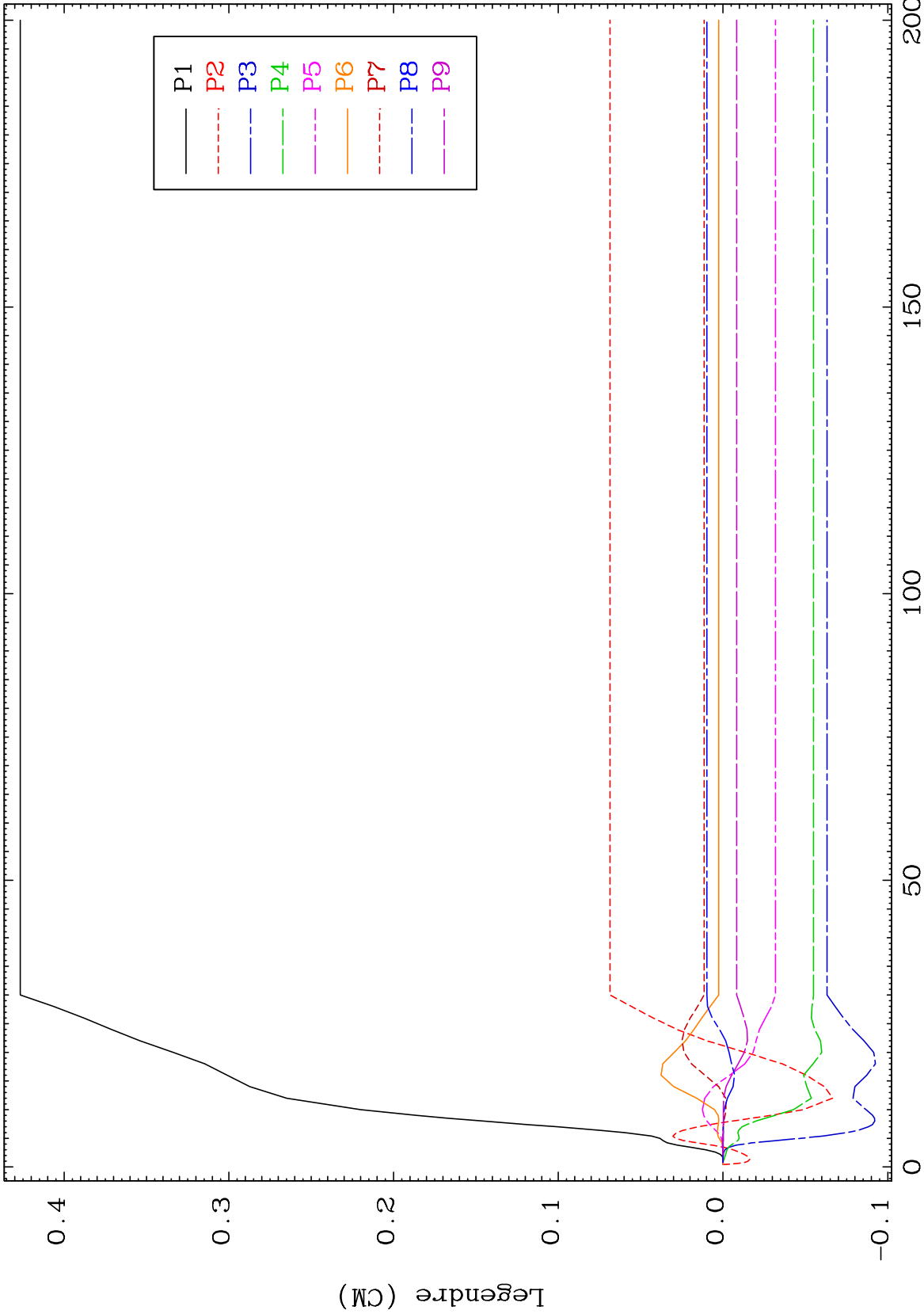
61-Pm-136



MAT 6116

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

61-Pm-136



104

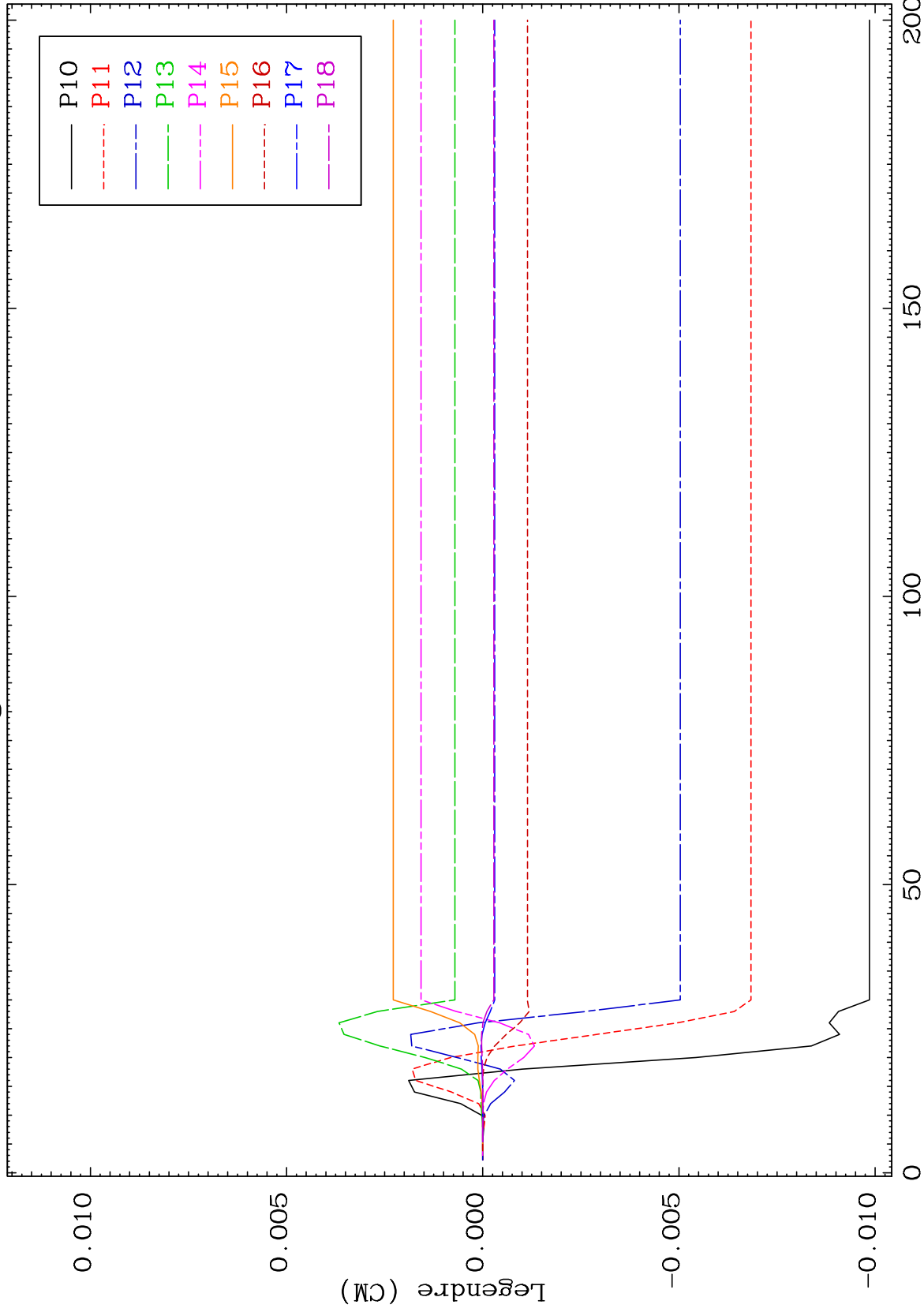
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



105

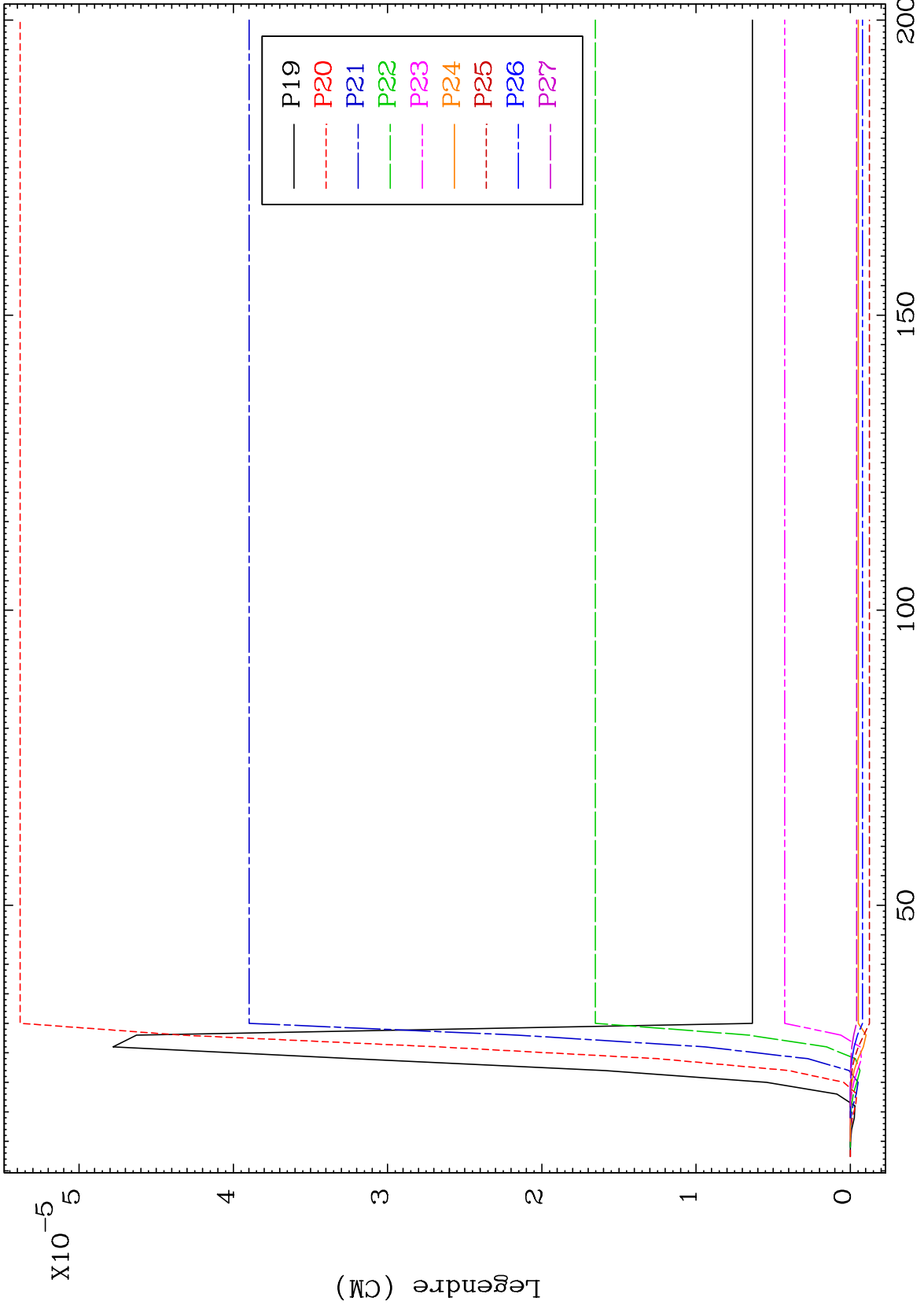
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136

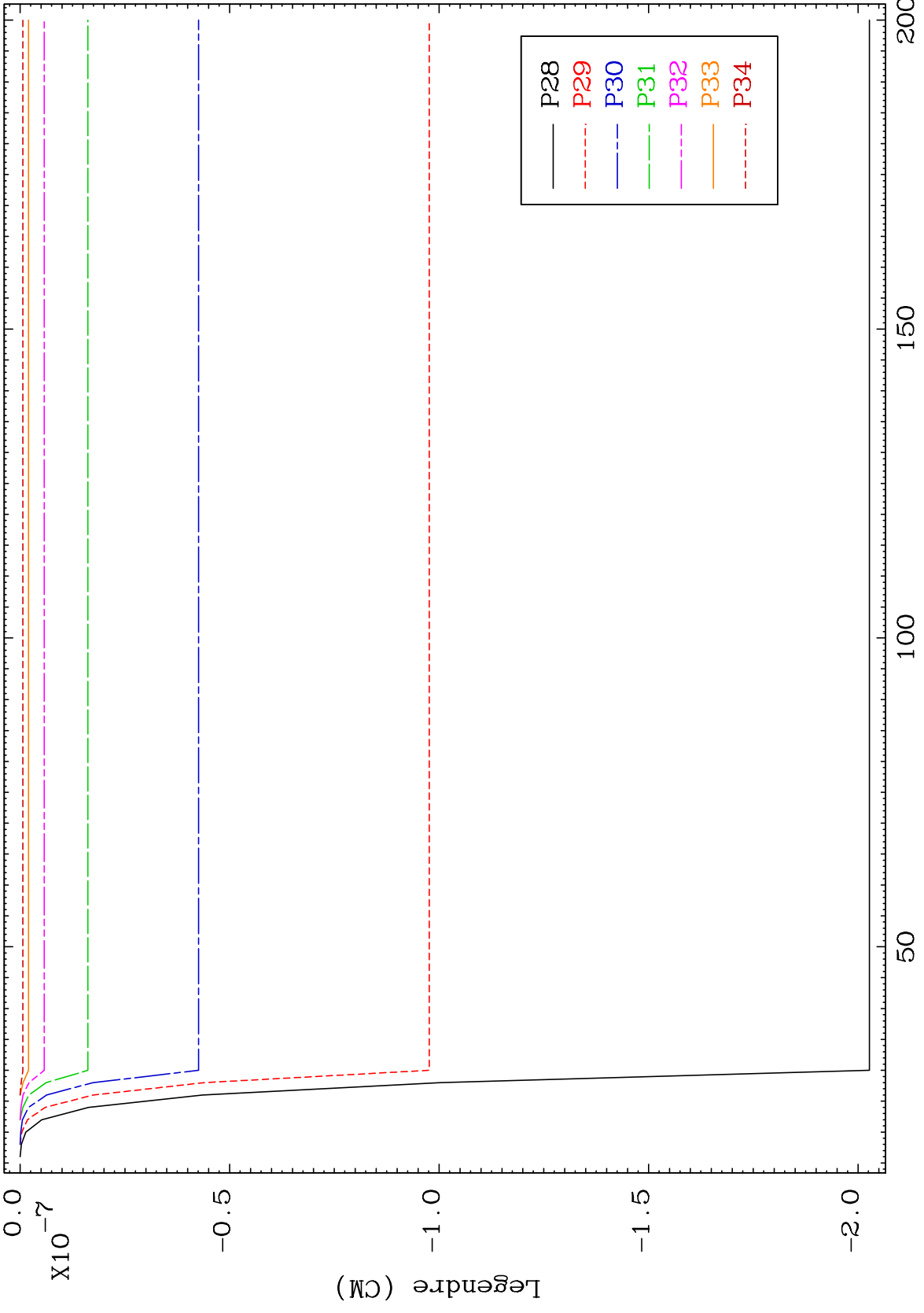


106

Incident Energy (MeV)

61-Pm-136

MAT 6116 MT= 75 (n,n') Level Legendre Coefficients 61-Pm-136

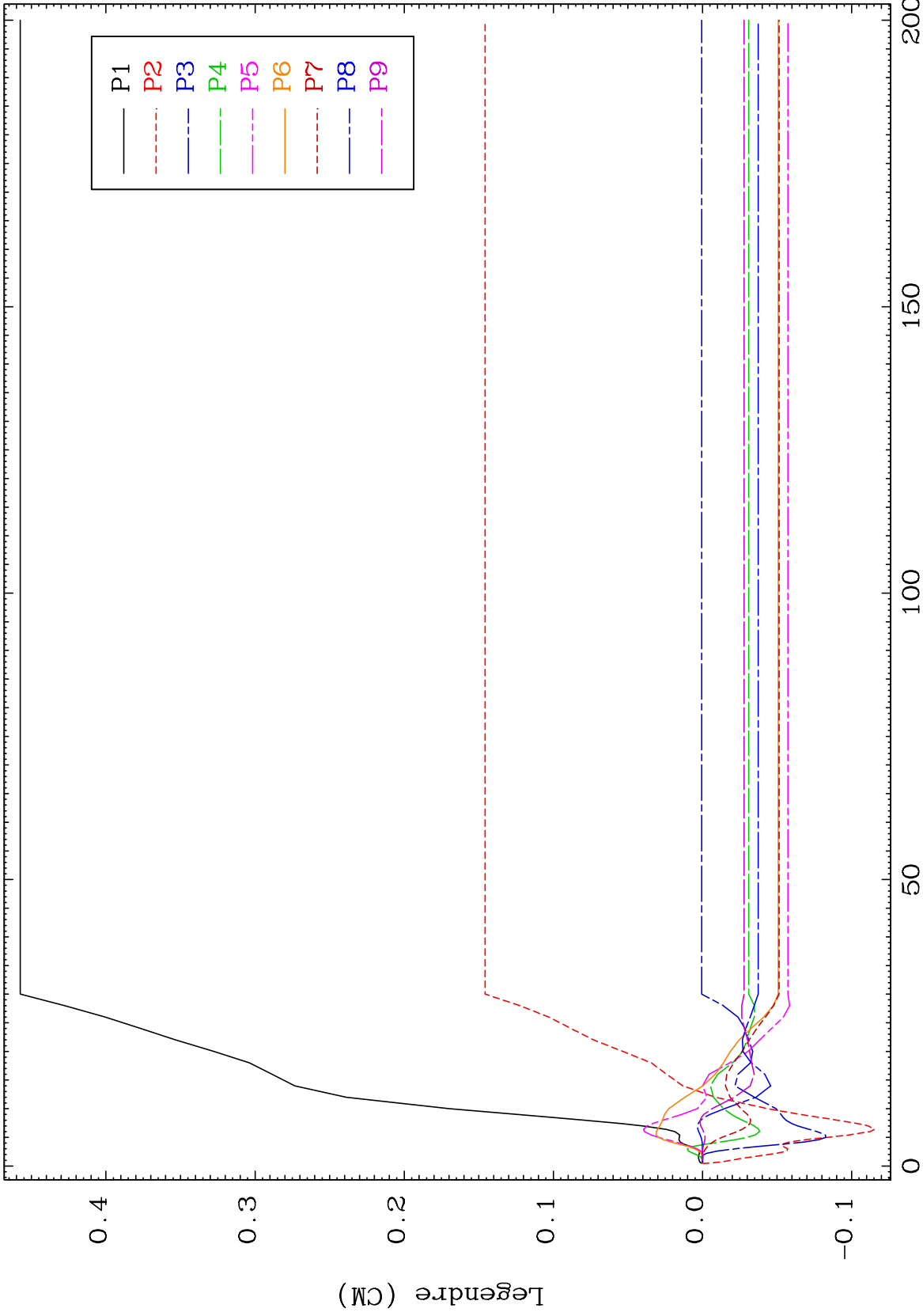


107 61-Pm-136

MAT 6116

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

61-Pm-136



61-Pm-136

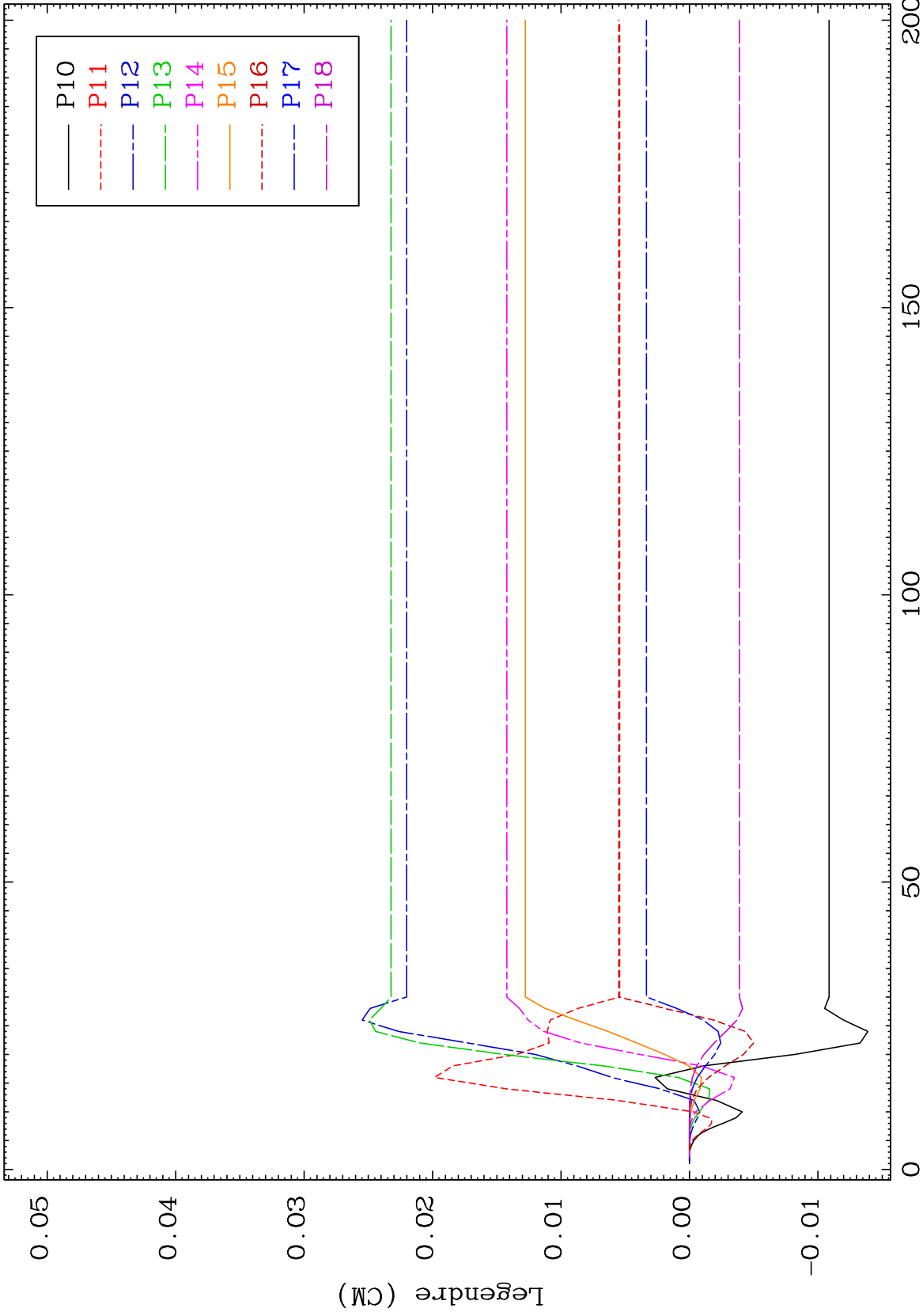
Incident Energy (MeV)

108

MAT 6116

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

61-Pm-136



61-Pm-136

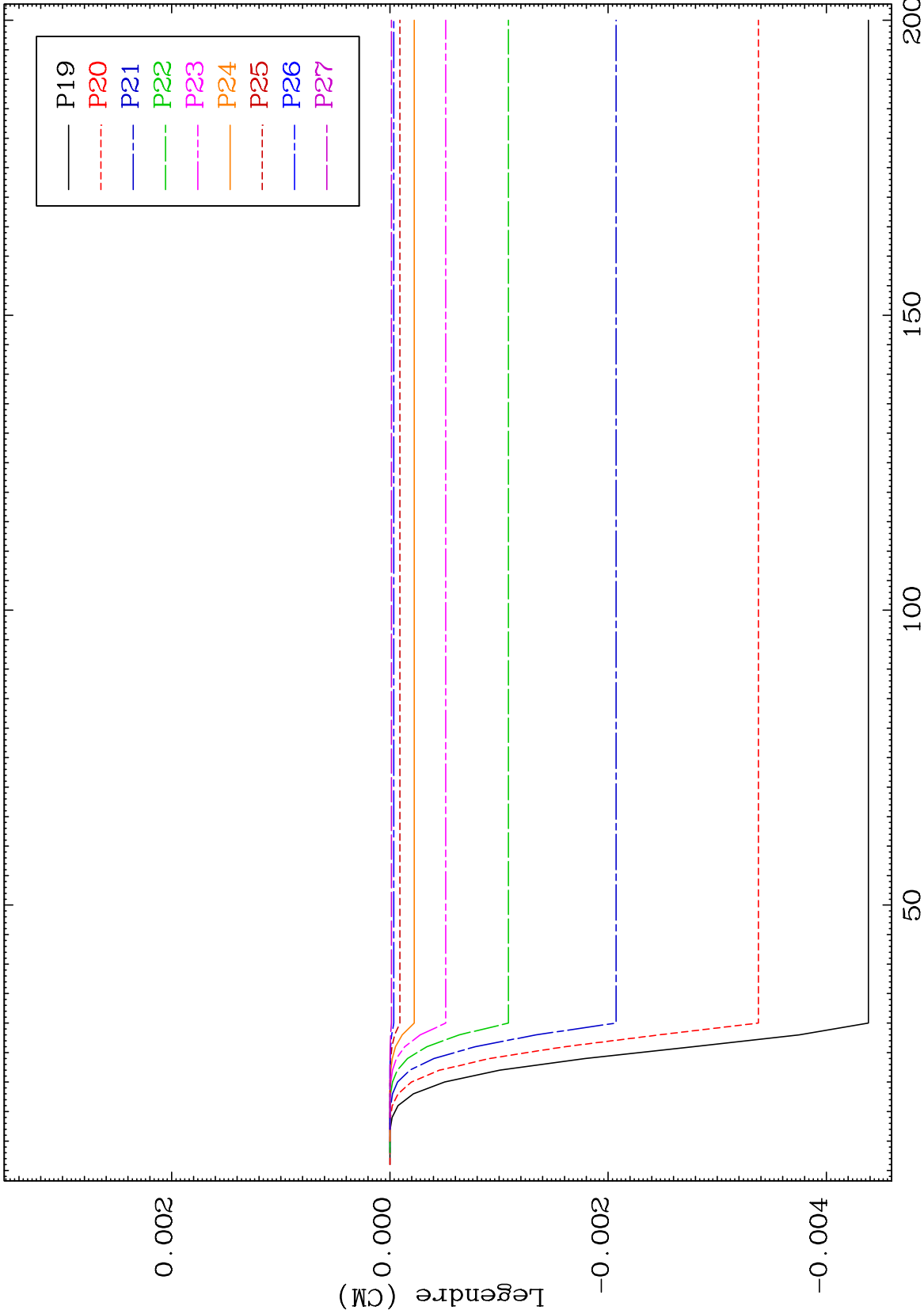
Incident Energy (MeV)

109

MAT 6116

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

61-Pm-136

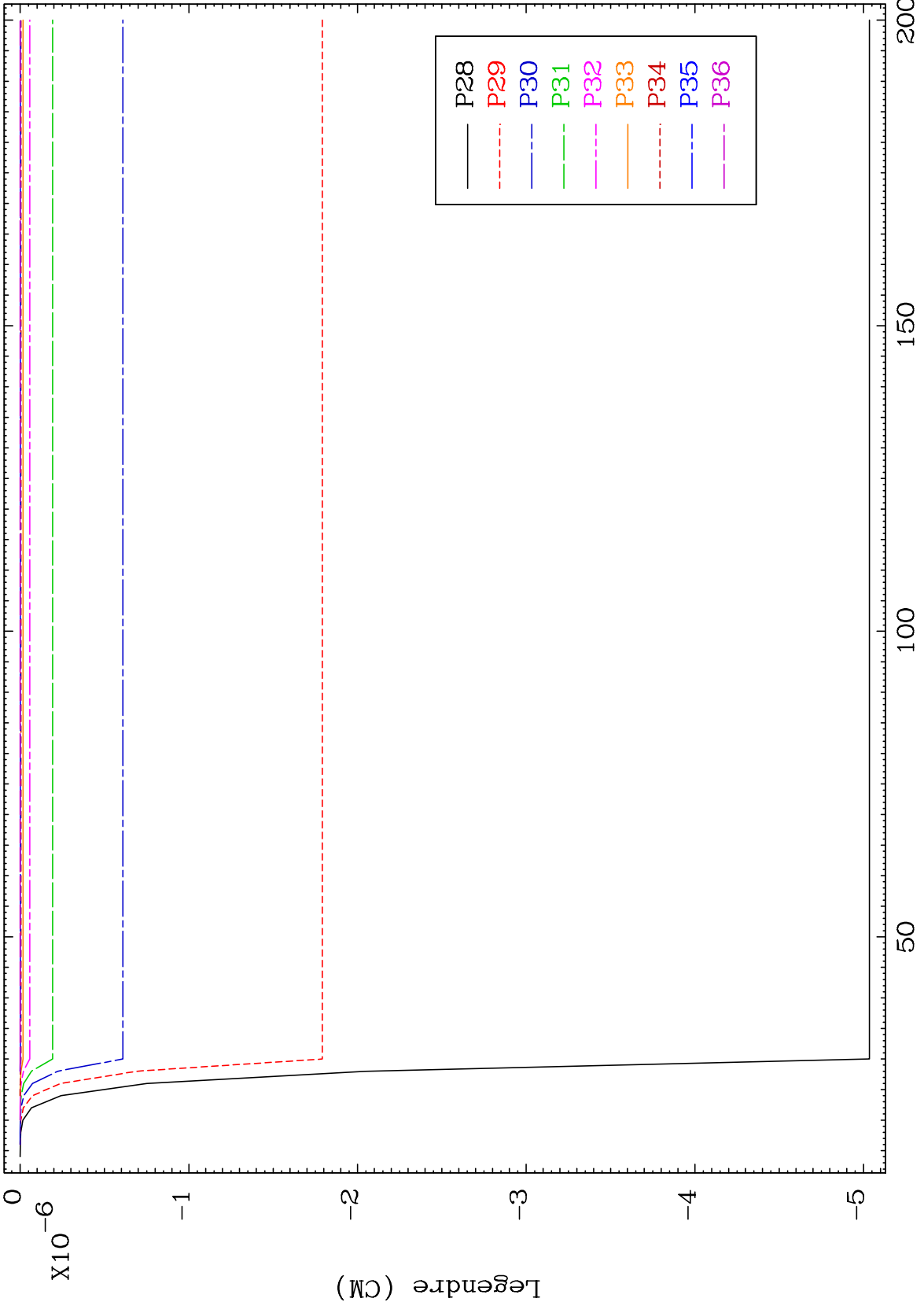


110

Incident Energy (MeV)

61-Pm-136

MAT 6116 MT= 76 (n,n') Level Legendre Coefficients 61-Pm-136



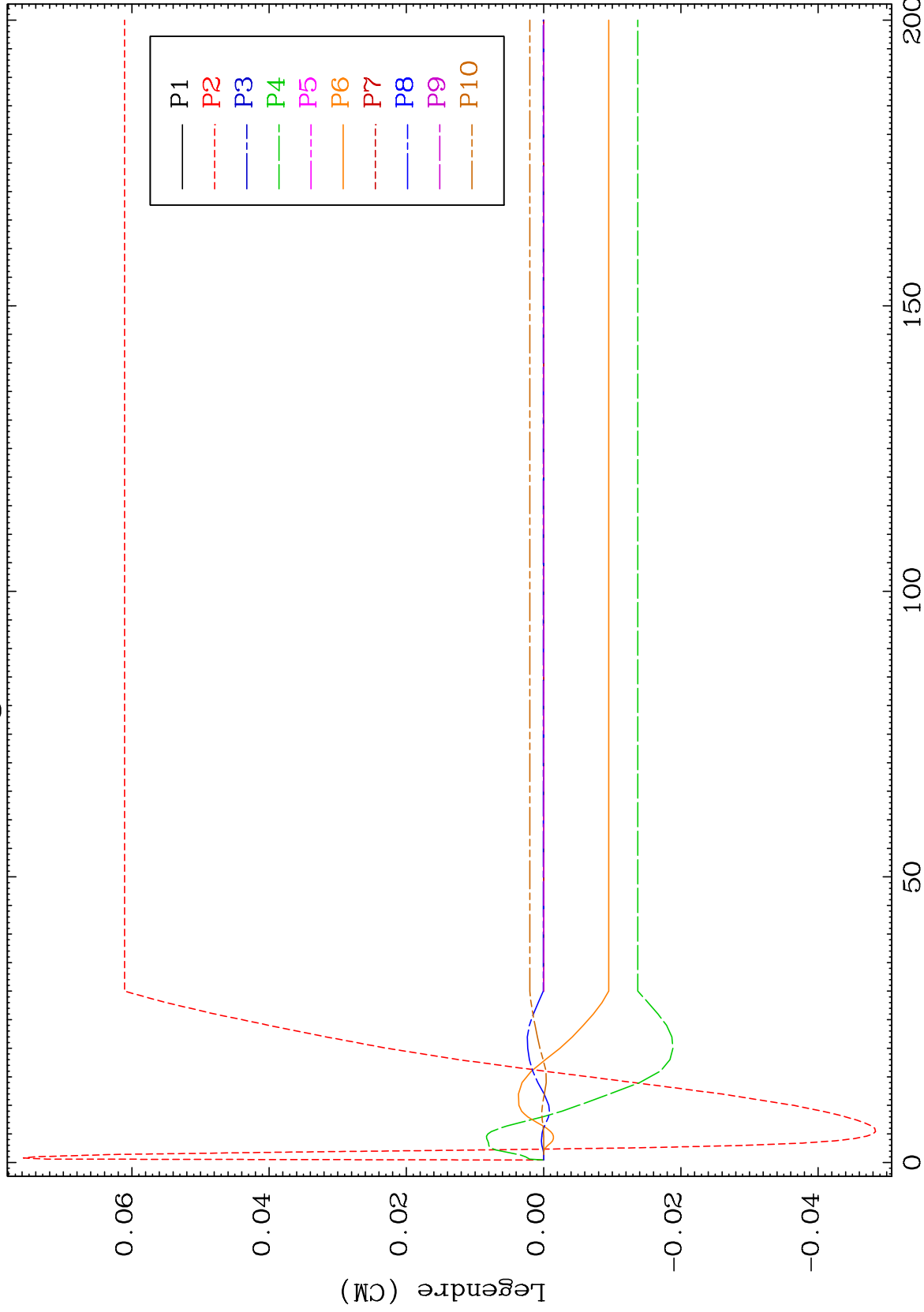
111 61-Pm-136



MAT 6116

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

61-Pm-136



61-Pm-136

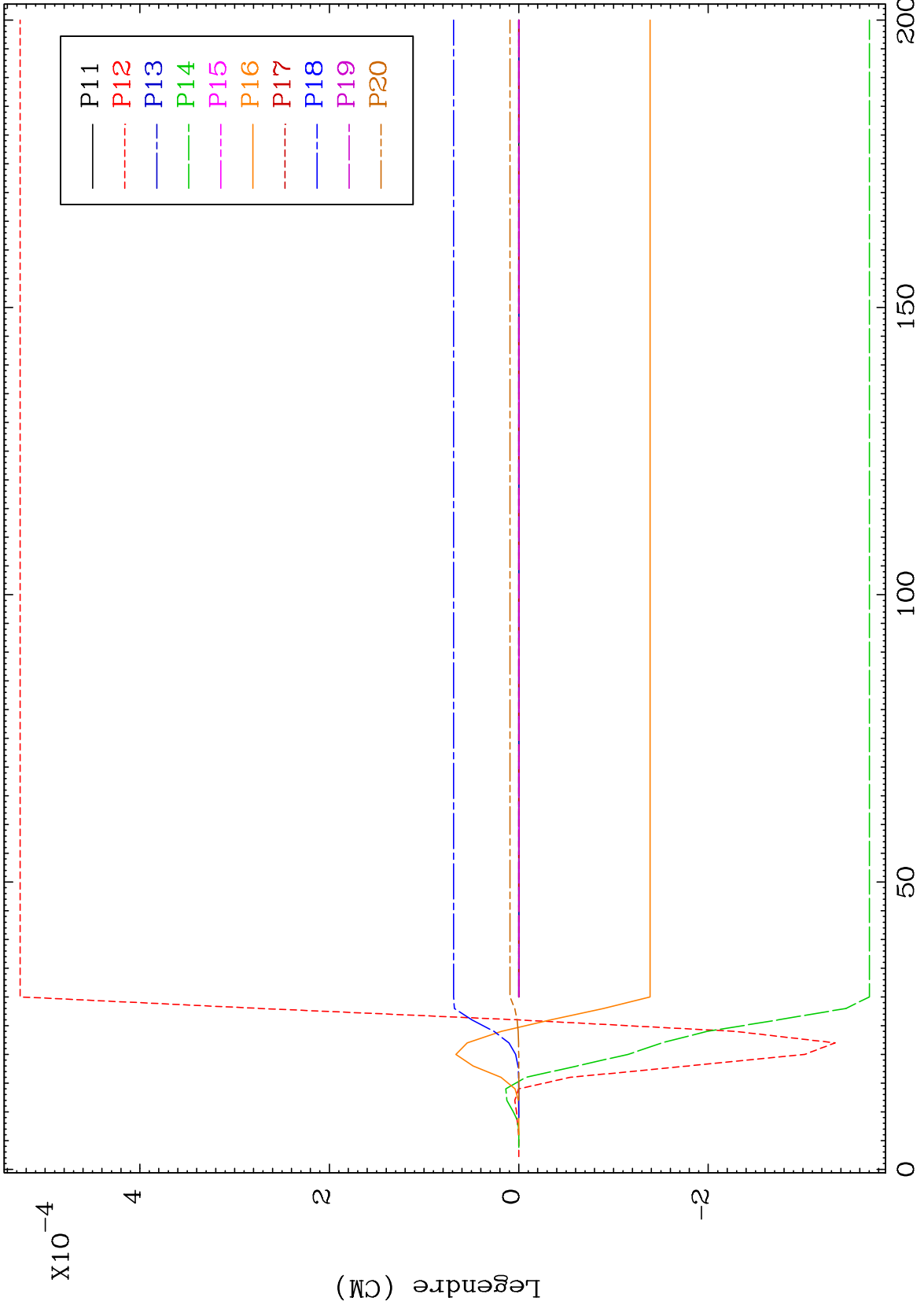
Incident Energy (MeV)

112

MAT 6116

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

61-Pm-136



113

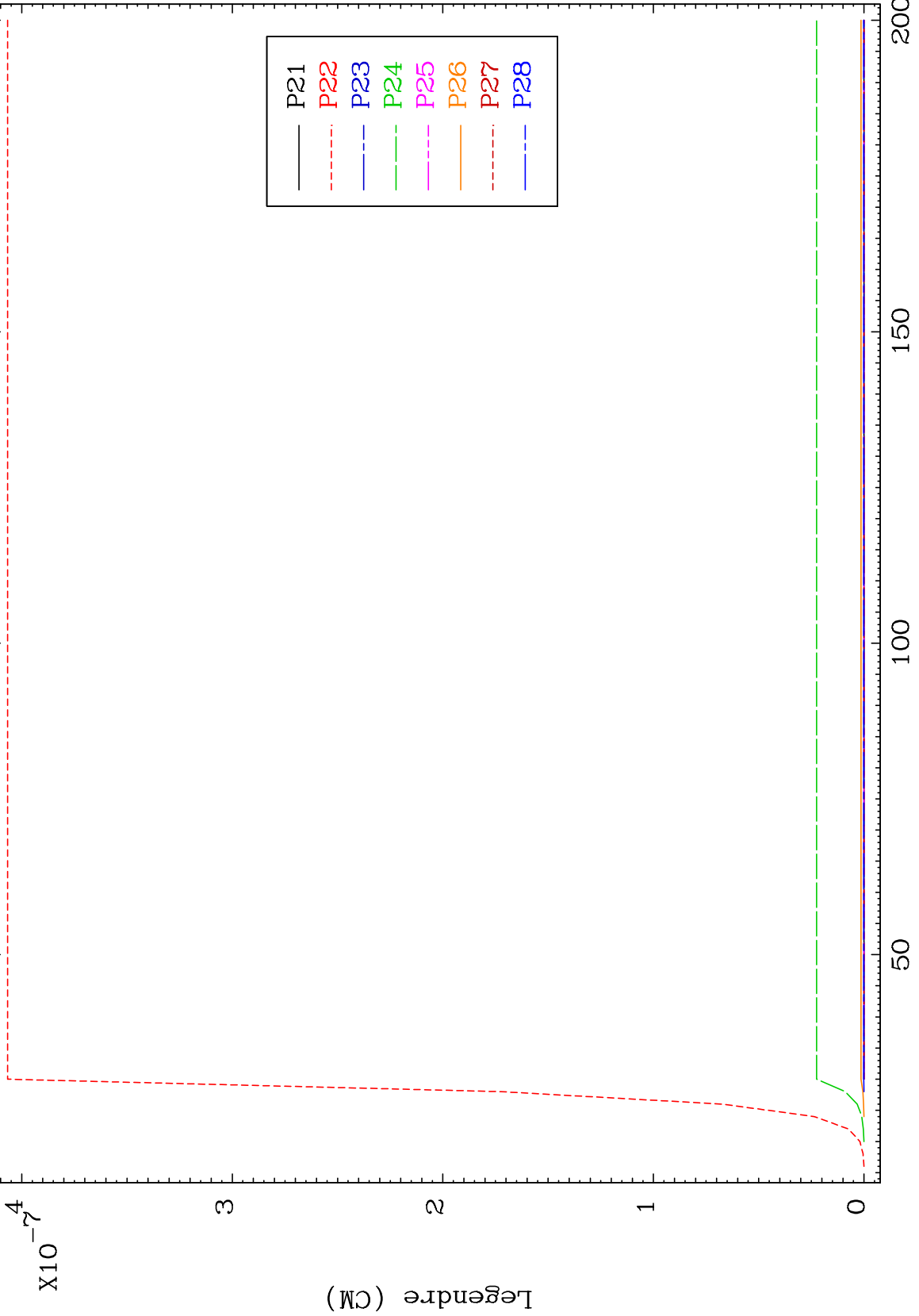
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136

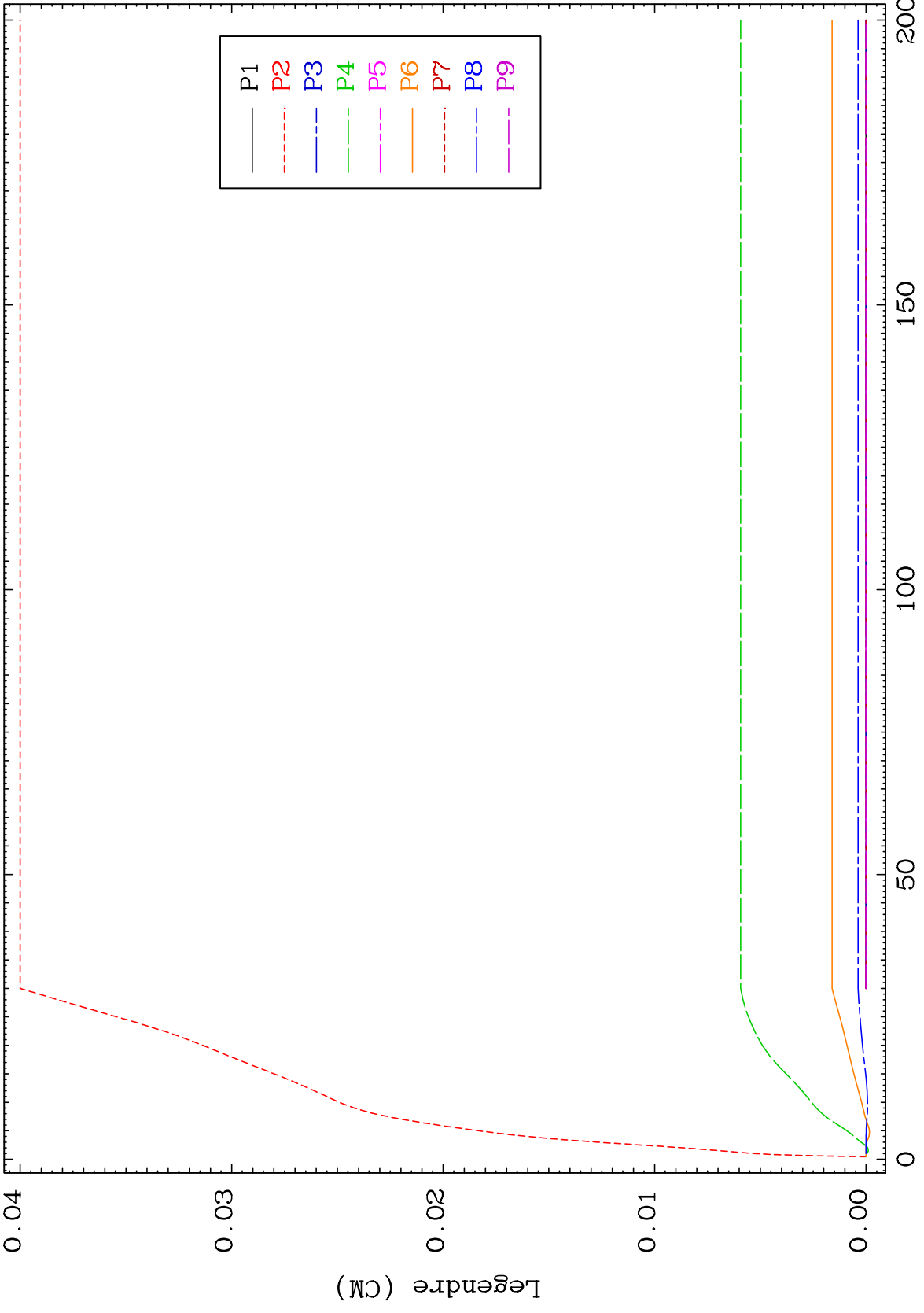


114

Incident Energy (MeV)

61-Pm-136

MAT 6116 MT= 78 (n,n') Level Legendre Coefficients 61-Pm-136

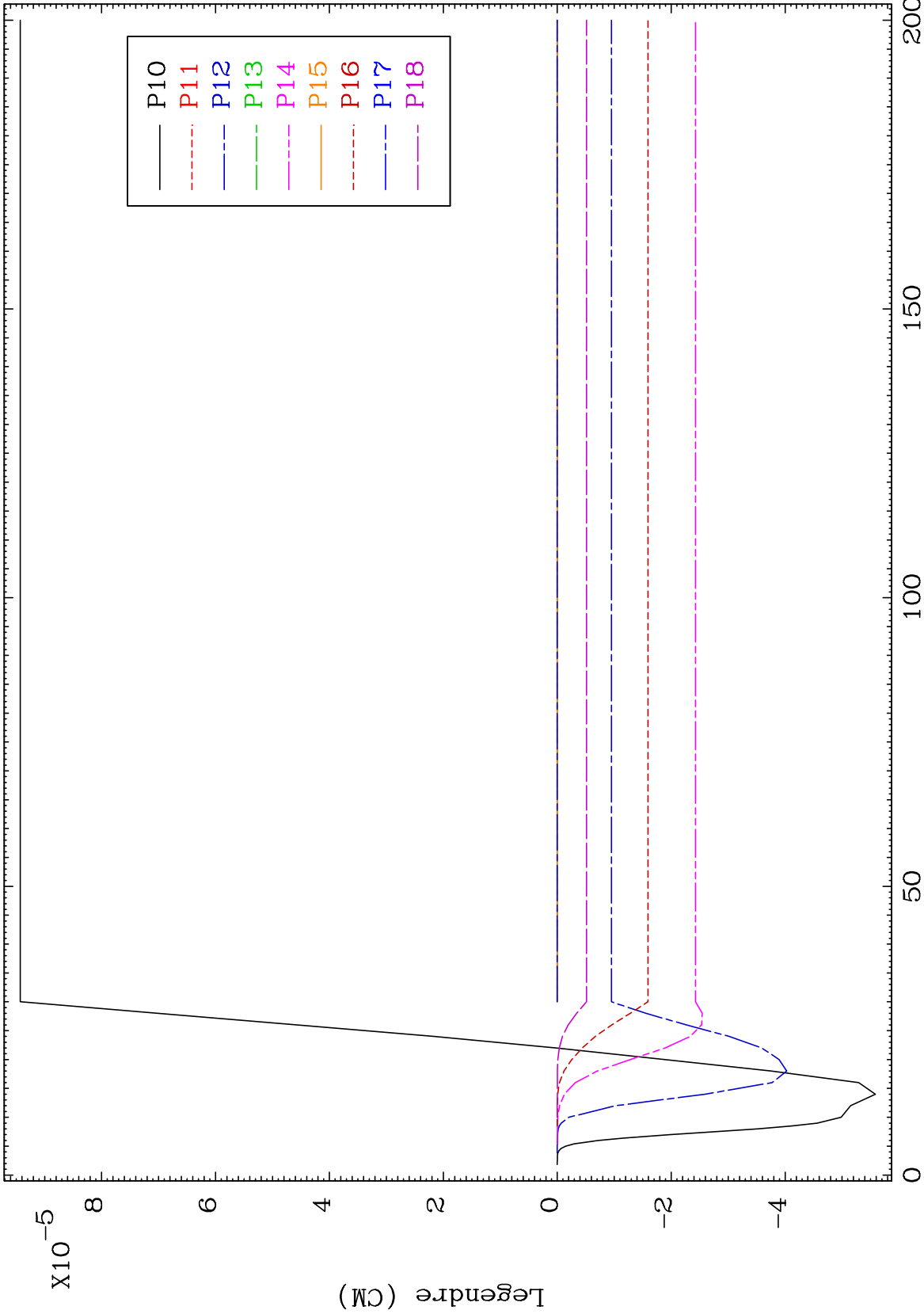


115 Incident Energy (MeV) 61-Pm-136

MAT 6116

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

61-Pm-136



116

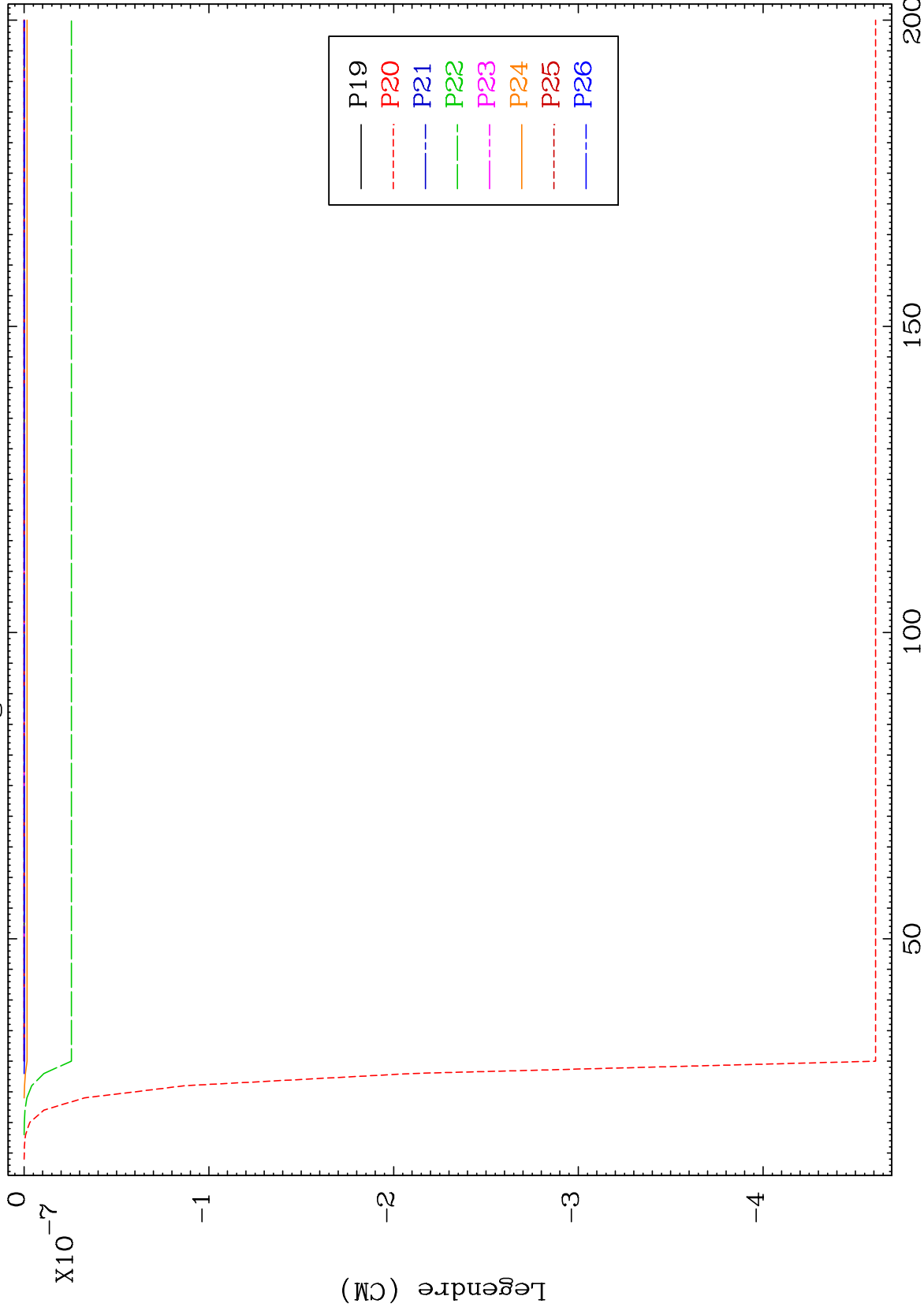
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



117

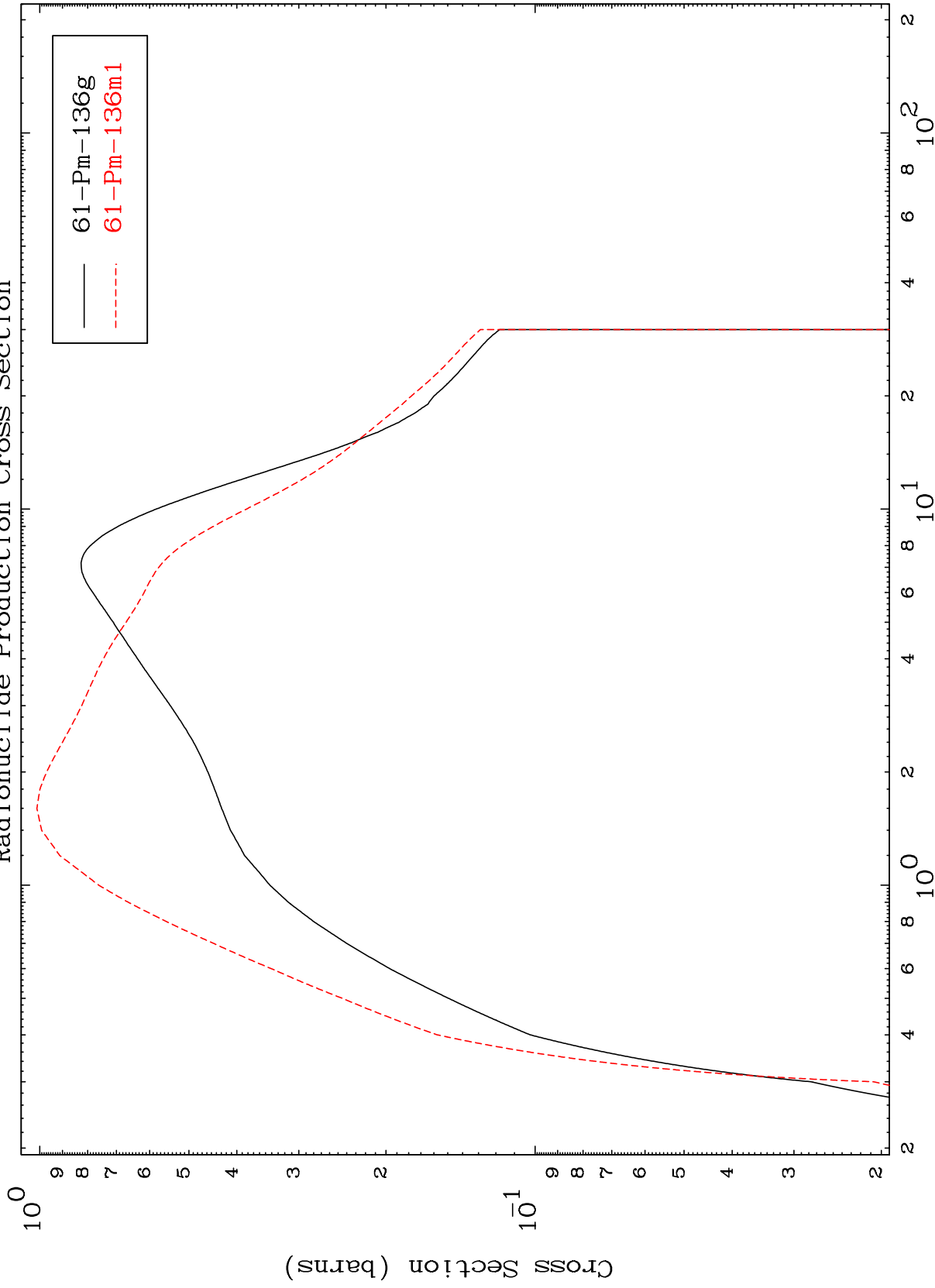
Incident Energy (MeV)

61-Pm-136

MAT 6116

61-Pm-136

Inelastic  
Radionuclide Production Cross Section



118

61-Pm-136

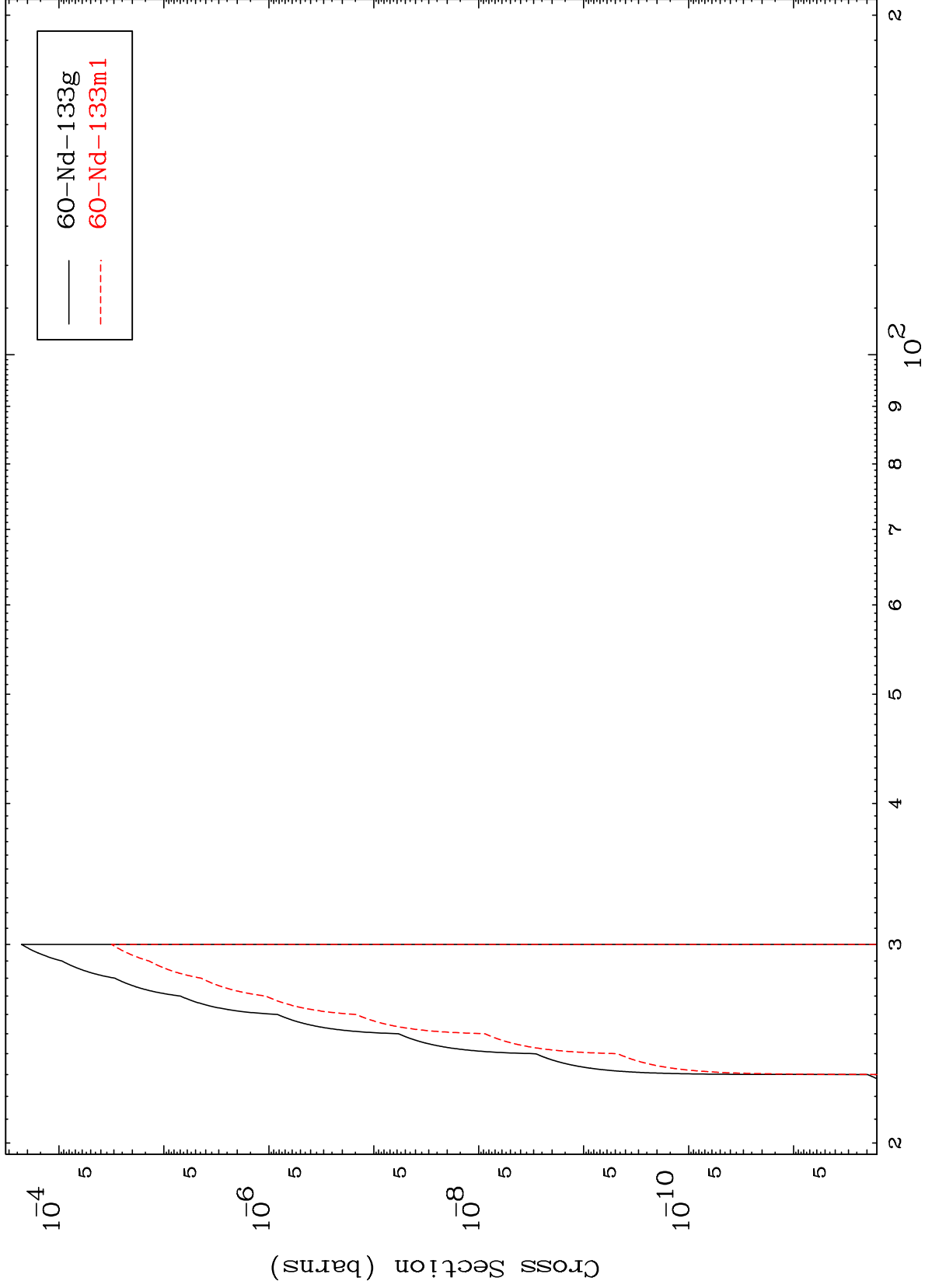
Incident Energy (MeV)

MAT 6116

(n,2n) d

61-Pm-136

Radionuclide Production Cross Section



119

Incident Energy (MeV)

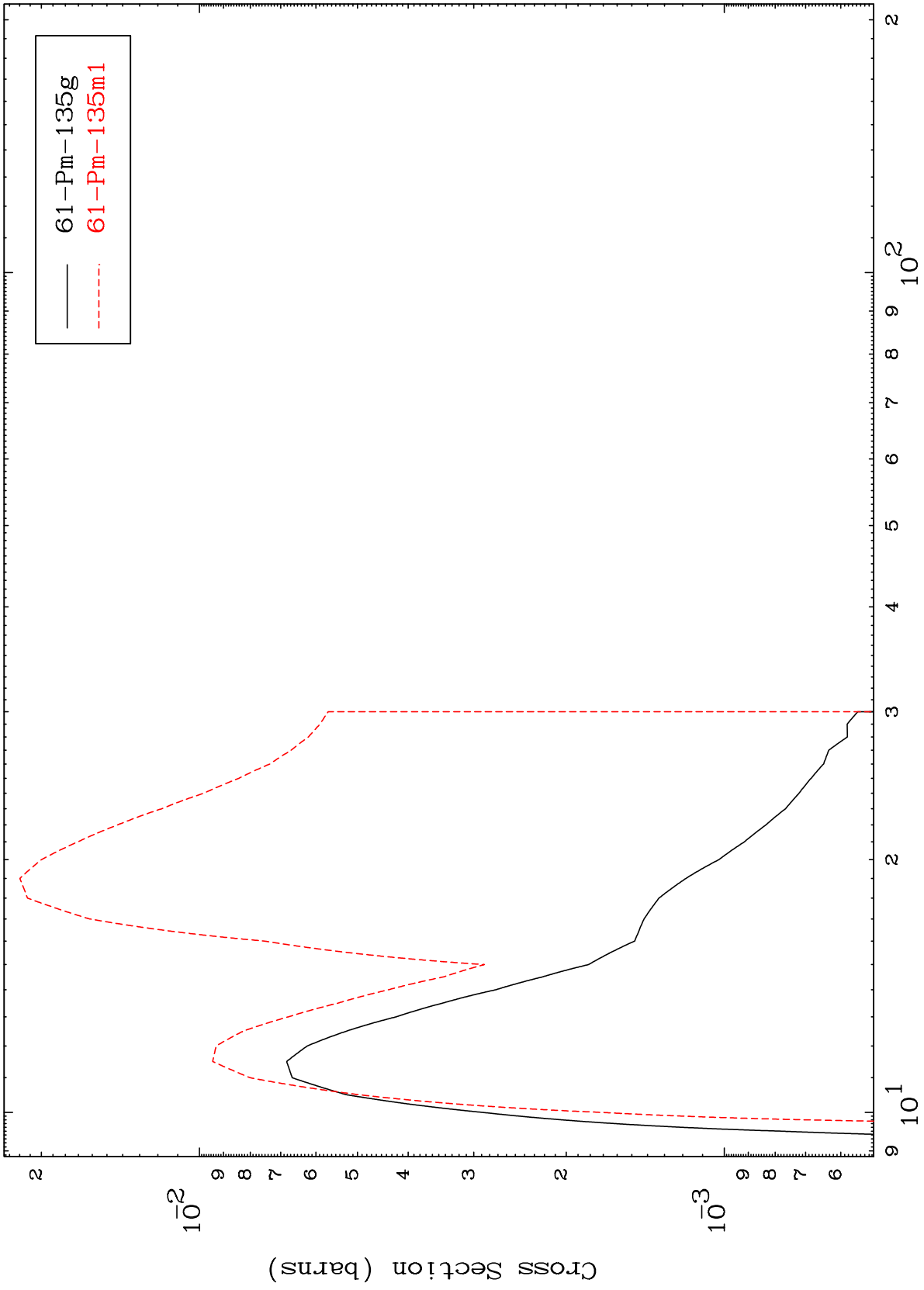
61-Pm-136



MAT 6116

61-Pm-136

(n,2n)  
Radionuclide Production Cross Section



61-Pm-136

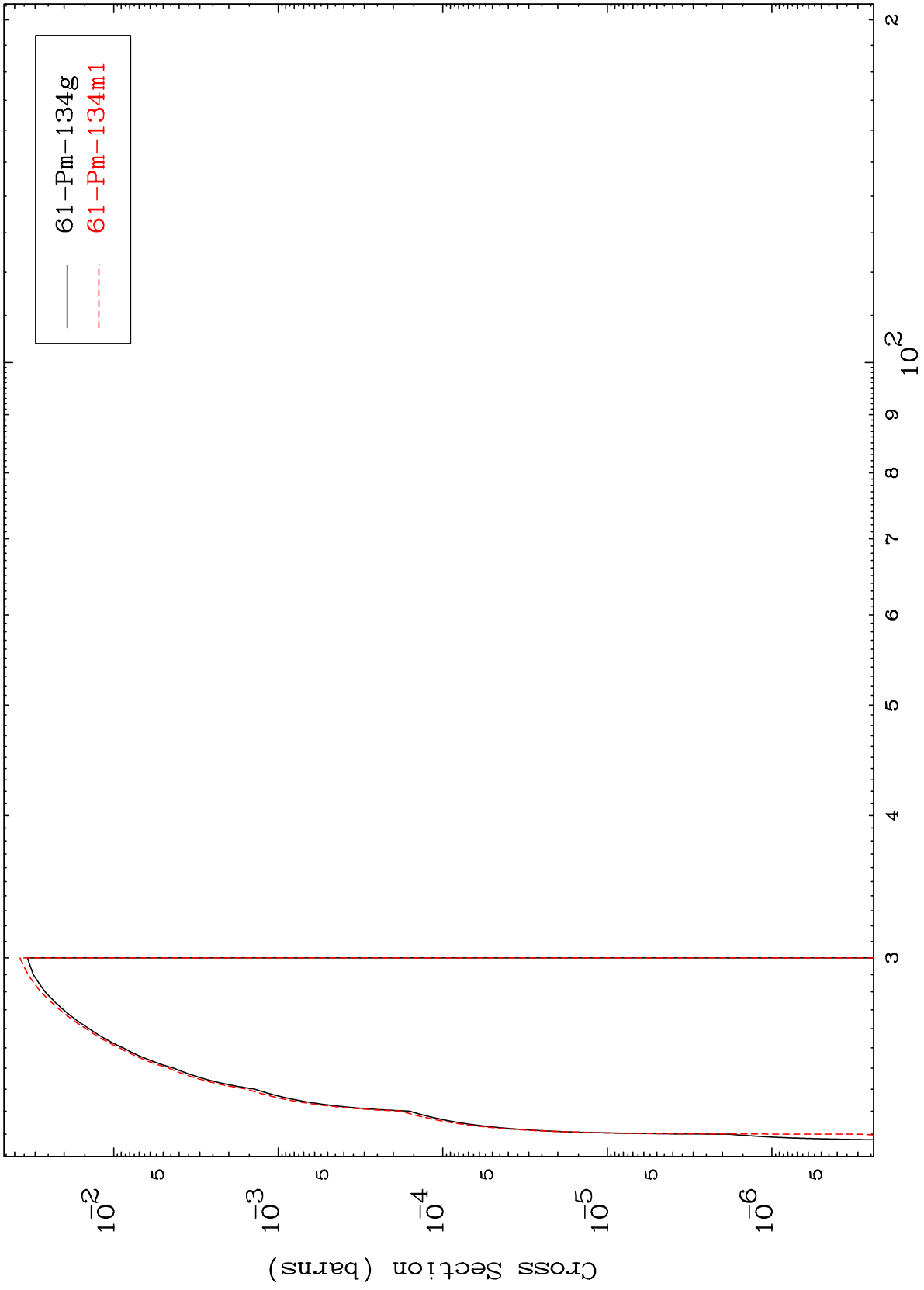
Incident Energy (MeV)

120

MAT 6116

61-Pm-136

(n,3n)  
Radionuclide Production Cross Section



121

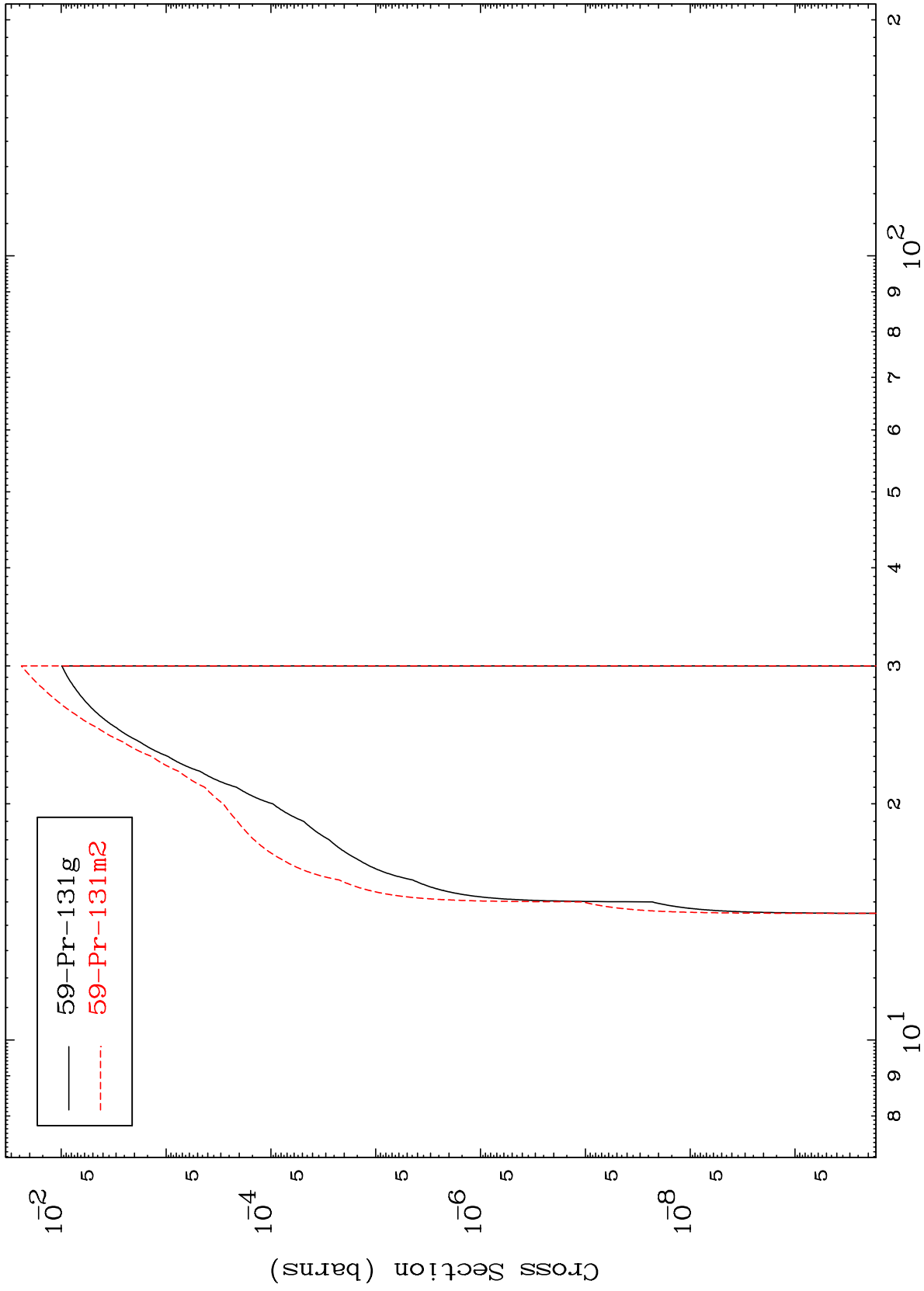
61-Pm-136

MAT 6116

(n,2n)  $\alpha$

61-Pm-136

Radionuclide Production Cross Section



122

Incident Energy (MeV)

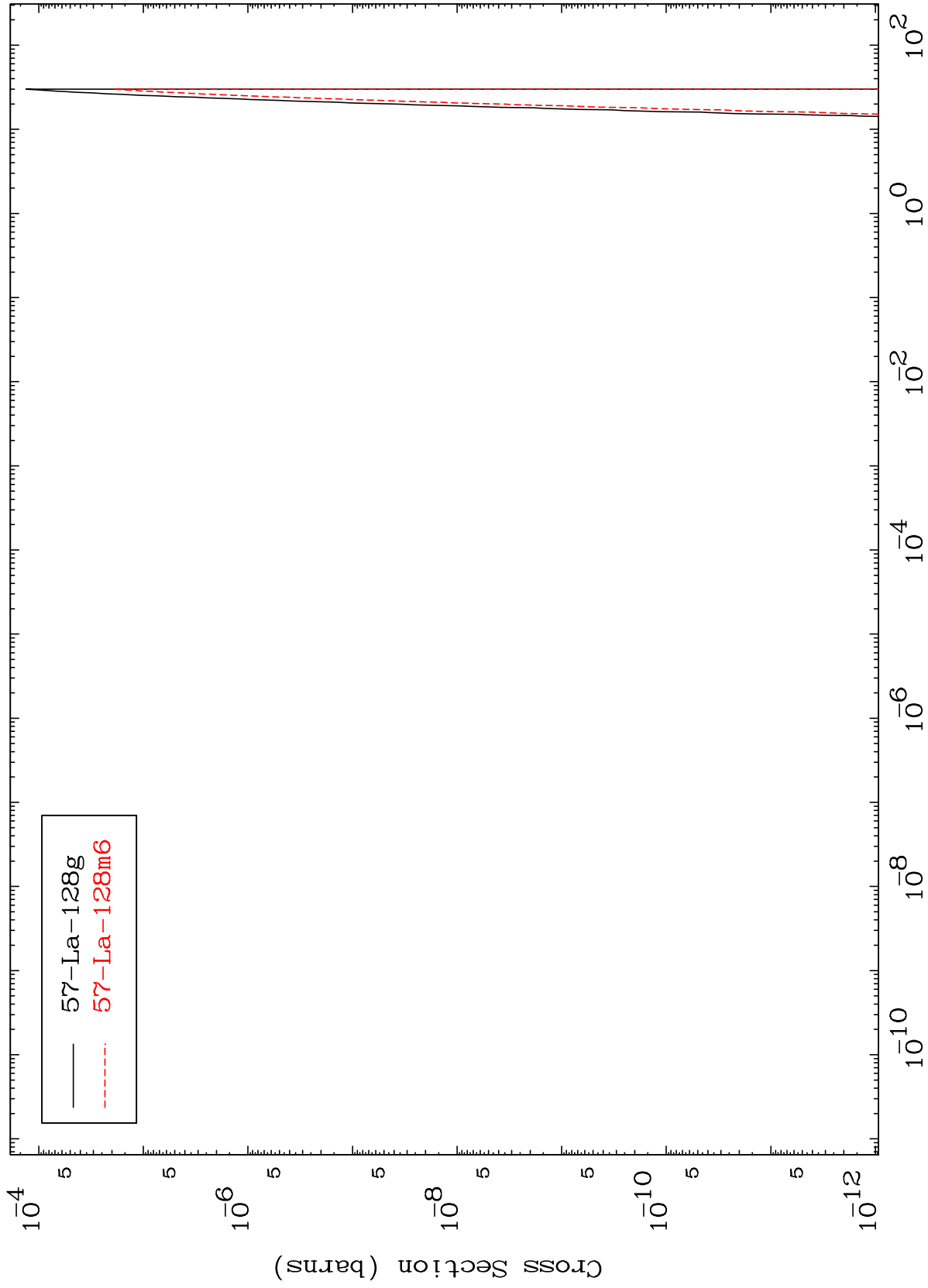
61-Pm-136

MAT 6116

(n,n') 2 $\alpha$

61-Pm-136

Radionuclide Production Cross Section



123

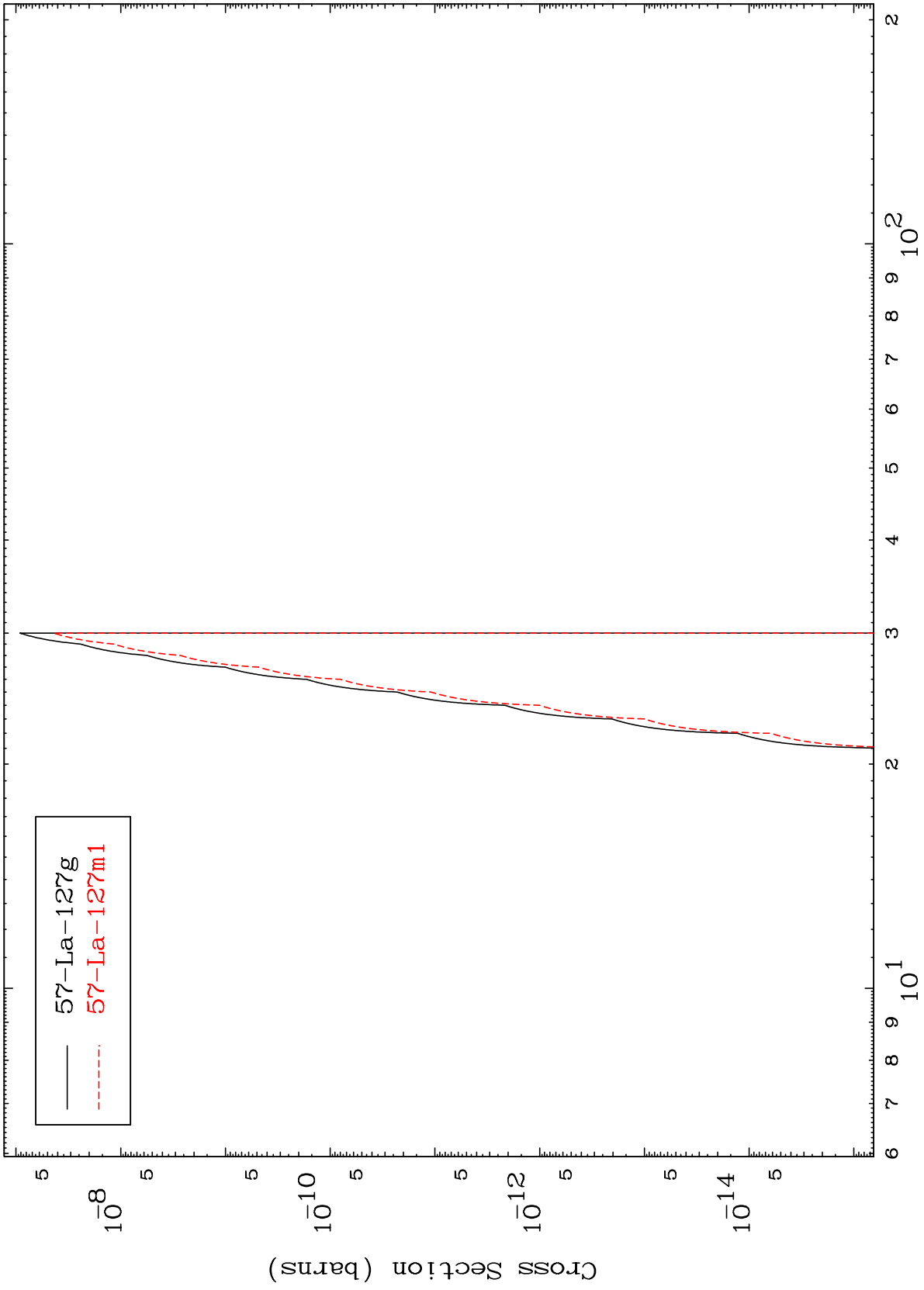
Incident Energy (MeV)

61-Pm-136

MAT 6116

61-Pm-136

(n,2n) 2 $\alpha$   
Radionuclide Production Cross Section



124

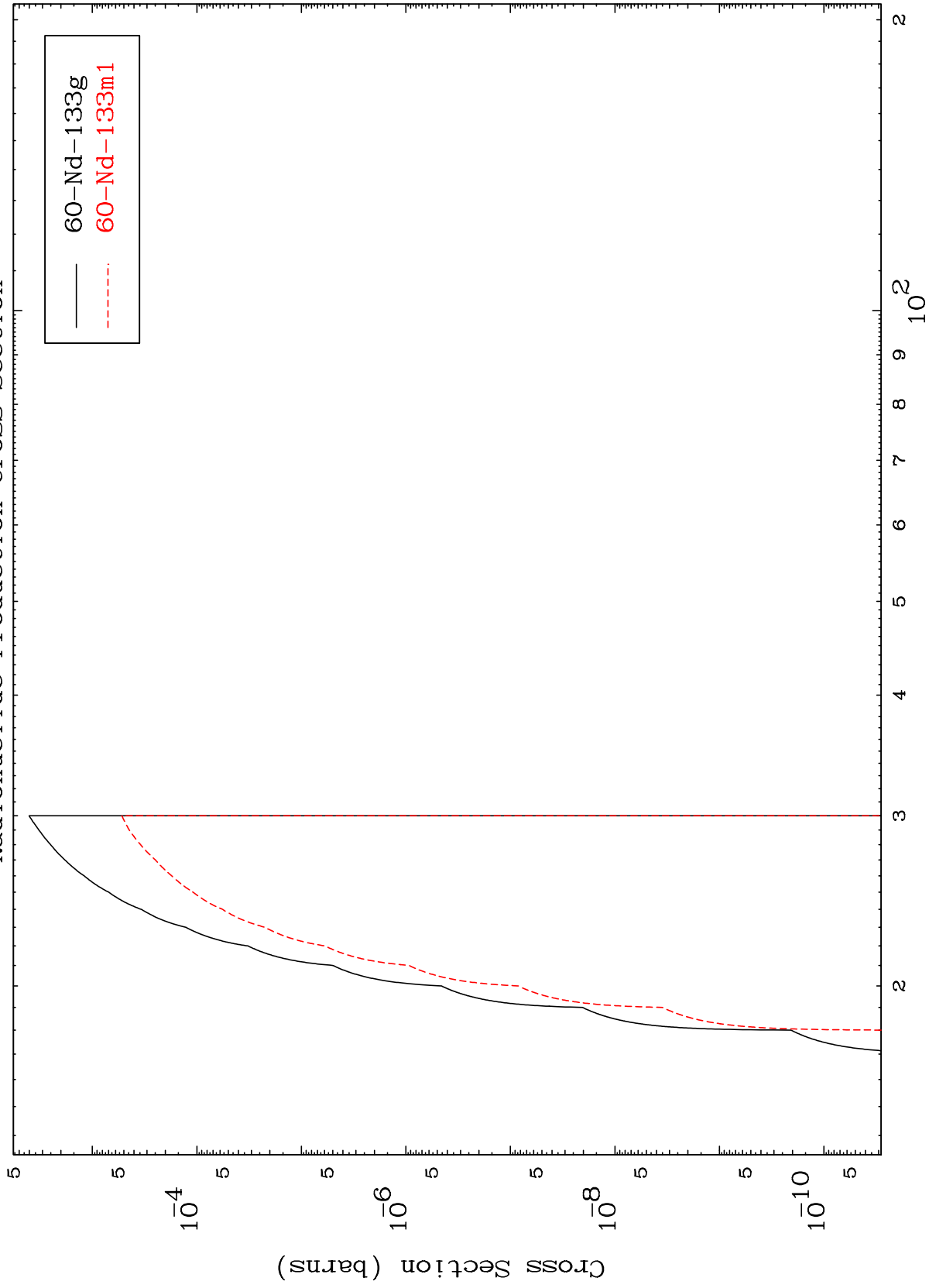
61-Pm-136

MAT 6116

(n,n') t

61-Pm-136

Radionuclide Production Cross Section



125

Incident Energy (MeV)

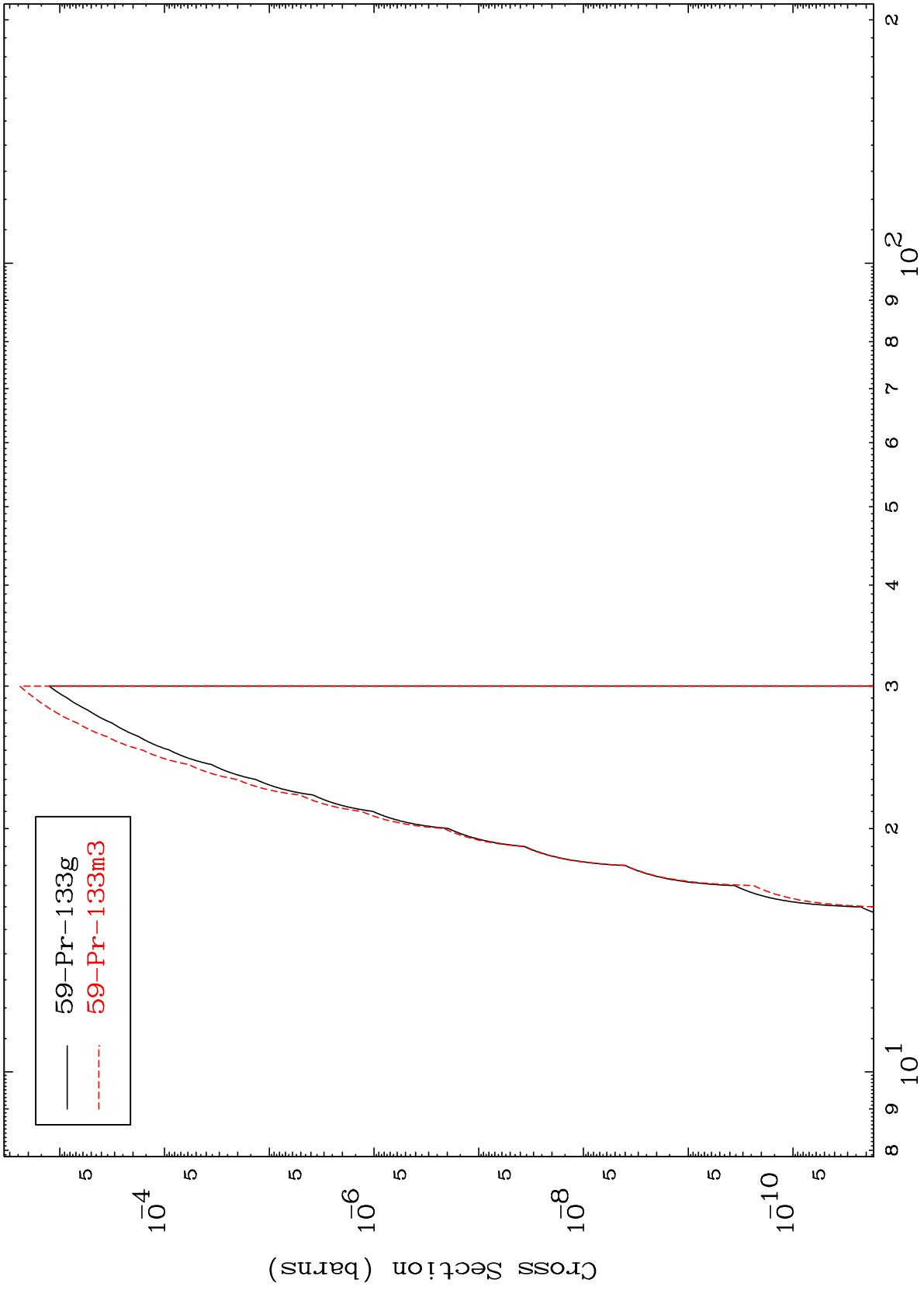
61-Pm-136

MAT 6116

(n, n') He-3

61-Pm-136

### Radionuclide Production Cross Section



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

126

Incident Energy (MeV)

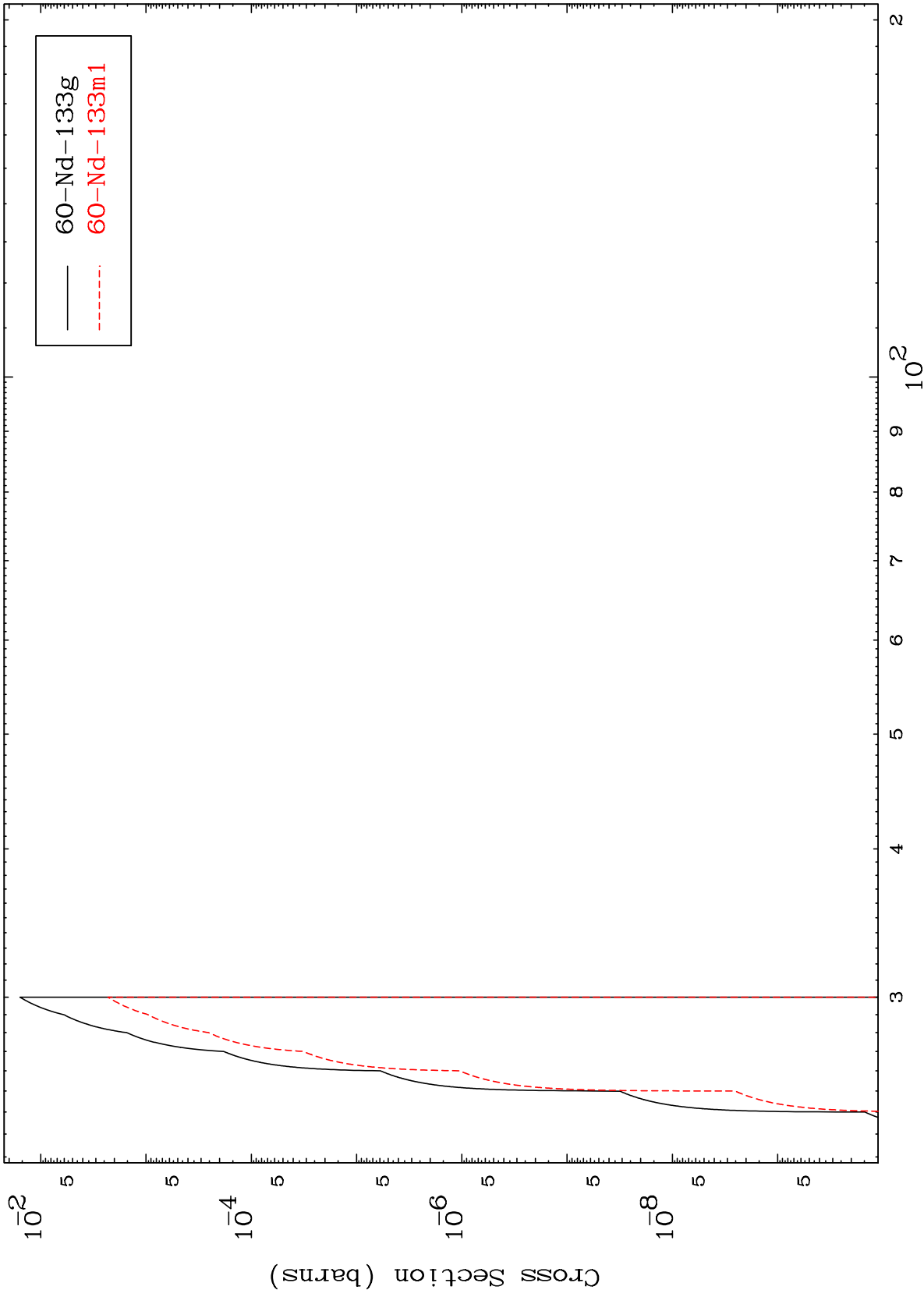
61-Pm-136

MAT 6116

(n,3n) p

61-Pm-136

Radionuclide Production Cross Section



127

Incident Energy (MeV)

61-Pm-136

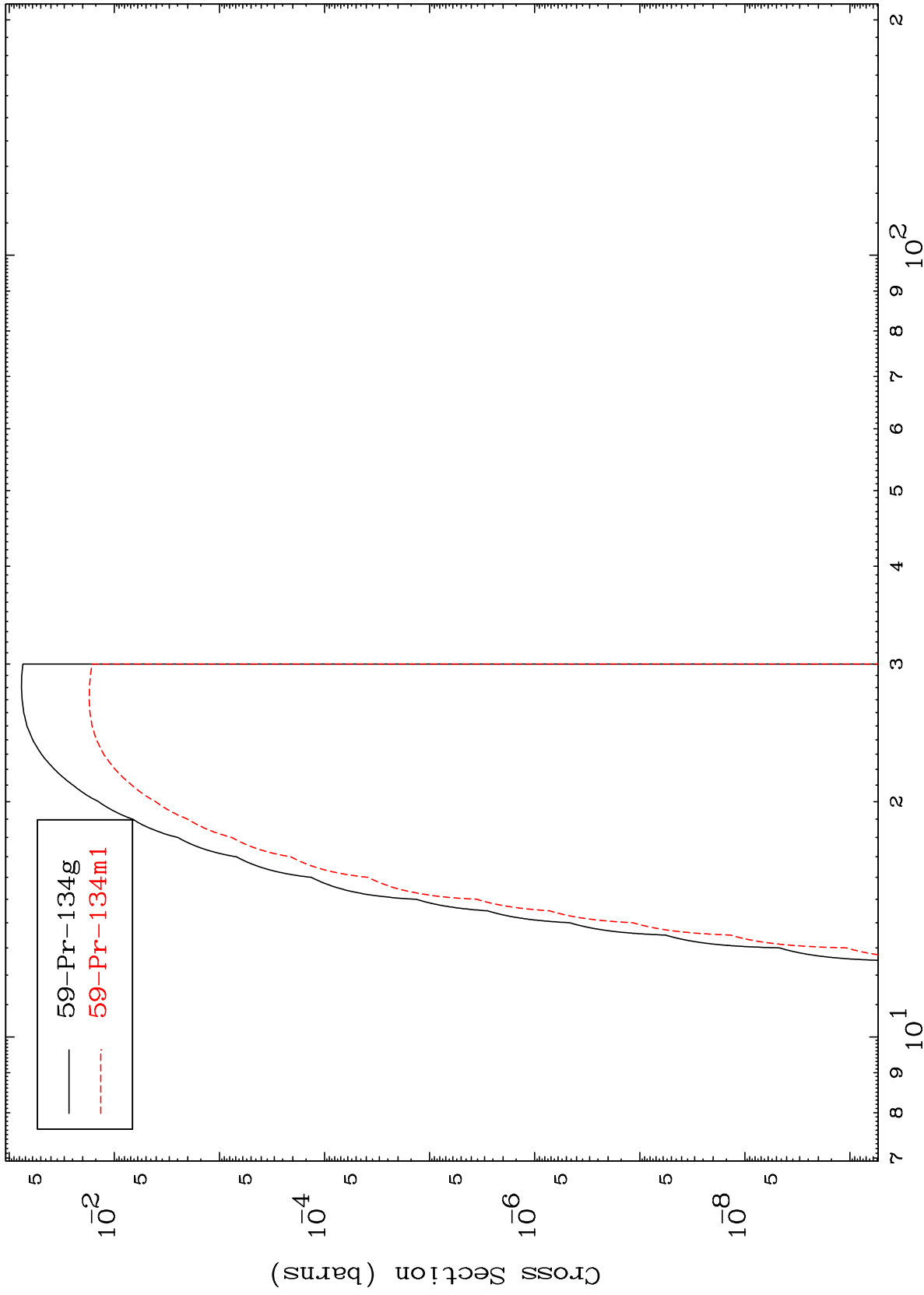


MAT 6116

(n,2n) p

61-Pm-136

Radionuclide Production Cross Section



128

Incident Energy (MeV)

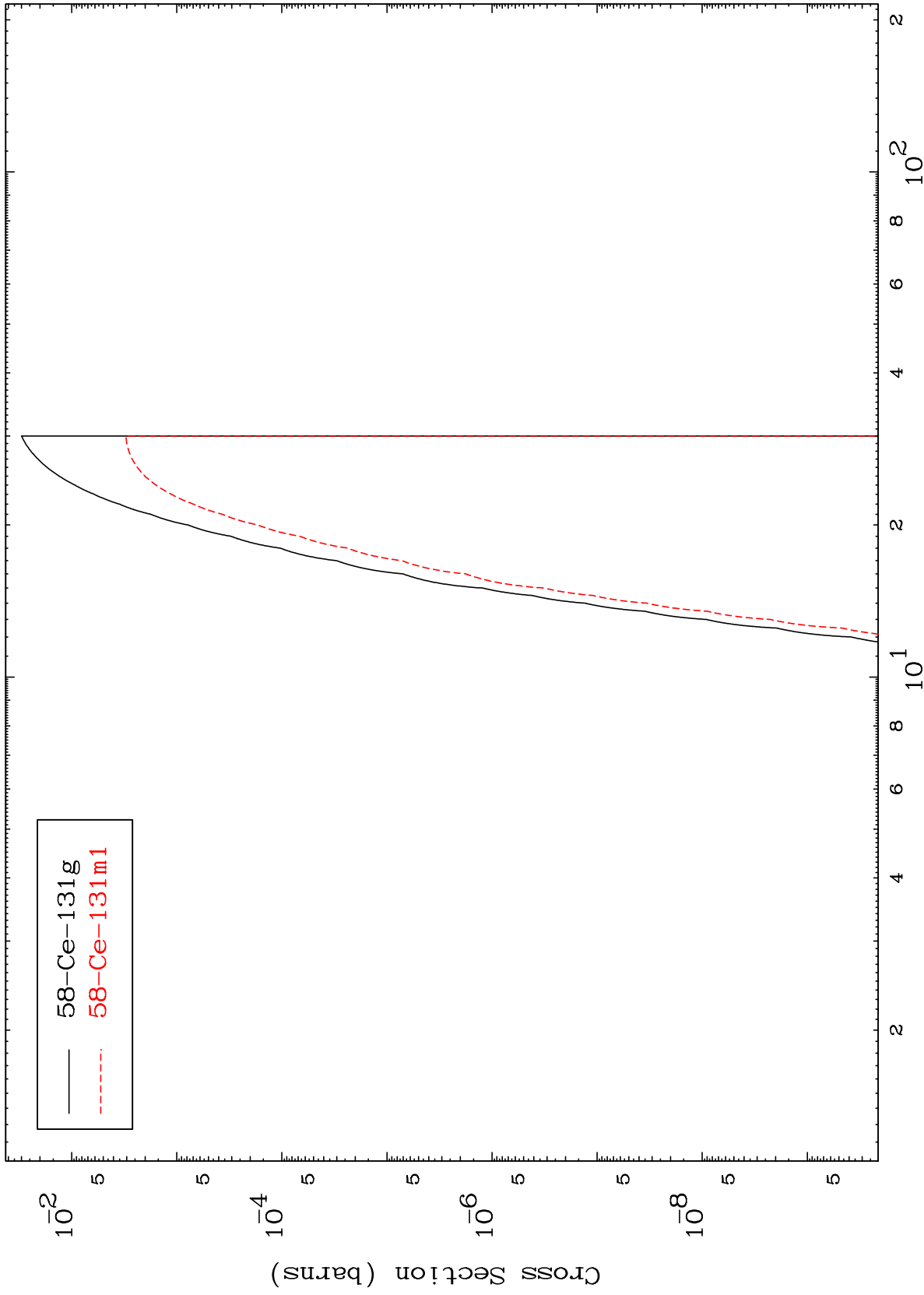
61-Pm-136

MAT 6116

(n,n') p  $\alpha$

61-Pm-136

Radionuclide Production Cross Section



58-Ce-131g  
58-Ce-131m1

129

Incident Energy (MeV)

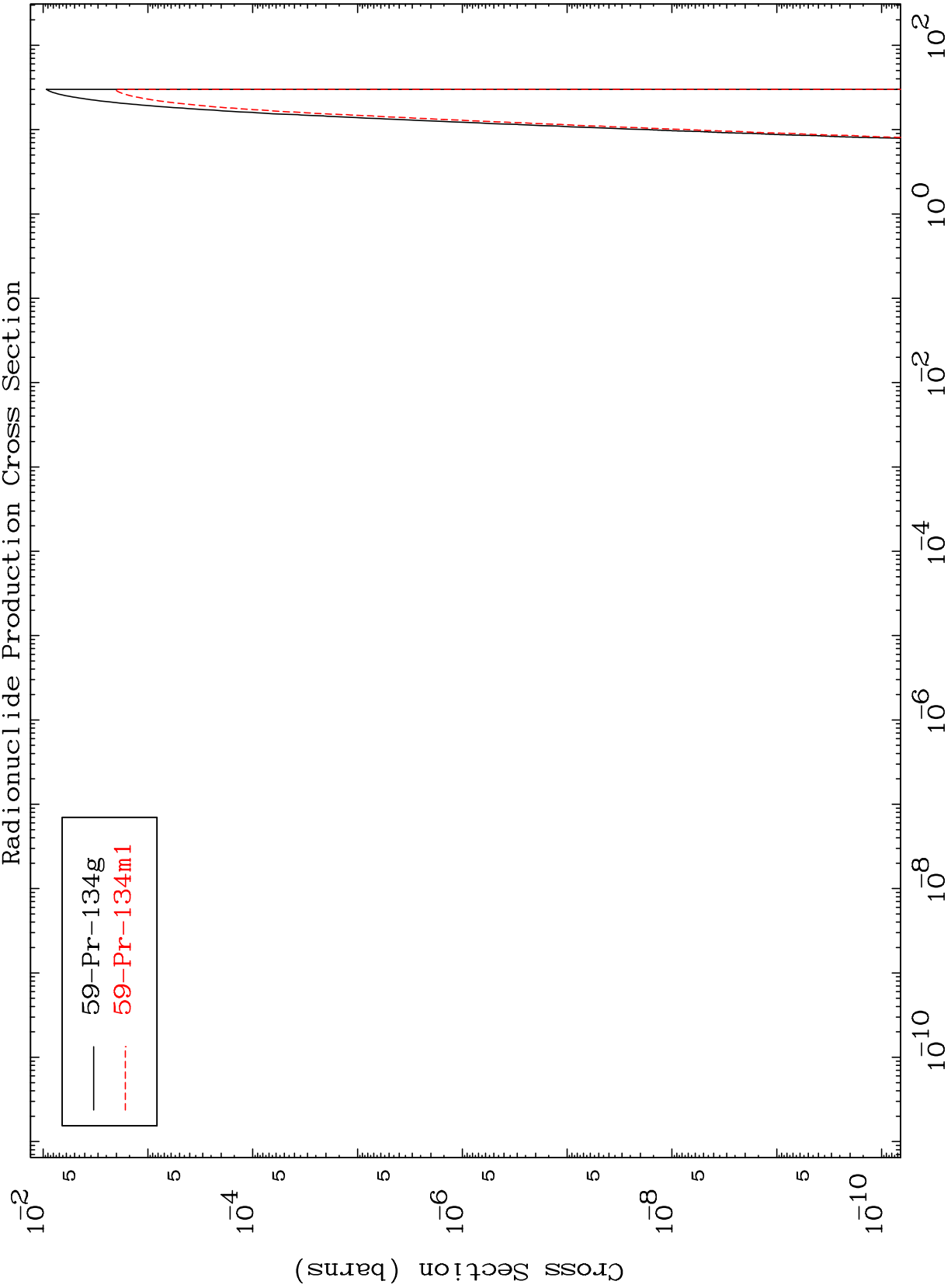
61-Pm-136

MAT 6116

(n, He-3)

61-Pm-136

Radionuclide Production Cross Section

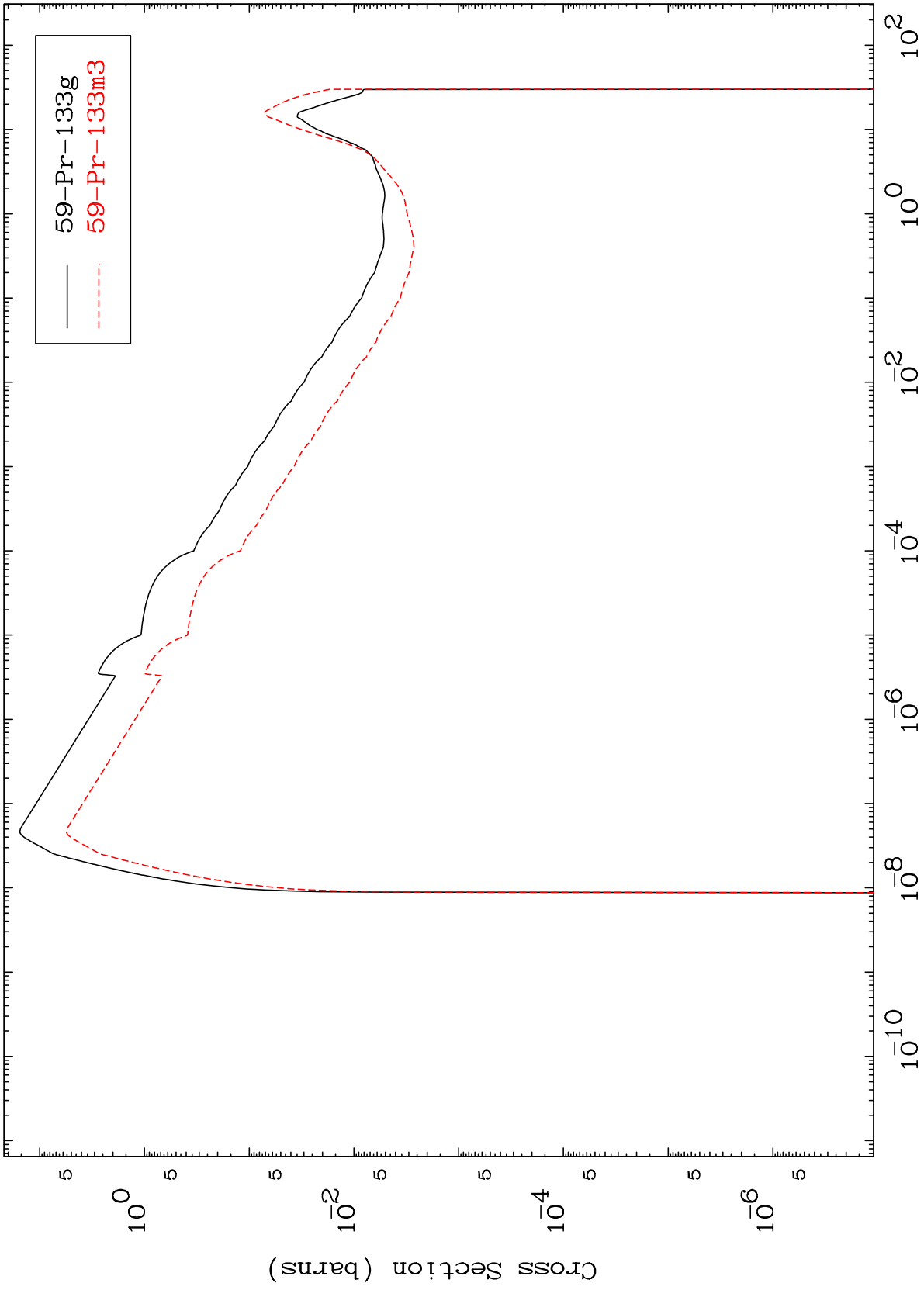


130

MAT 6116

61-Pm-136

(n,α)  
Radionuclide Production Cross Section



131

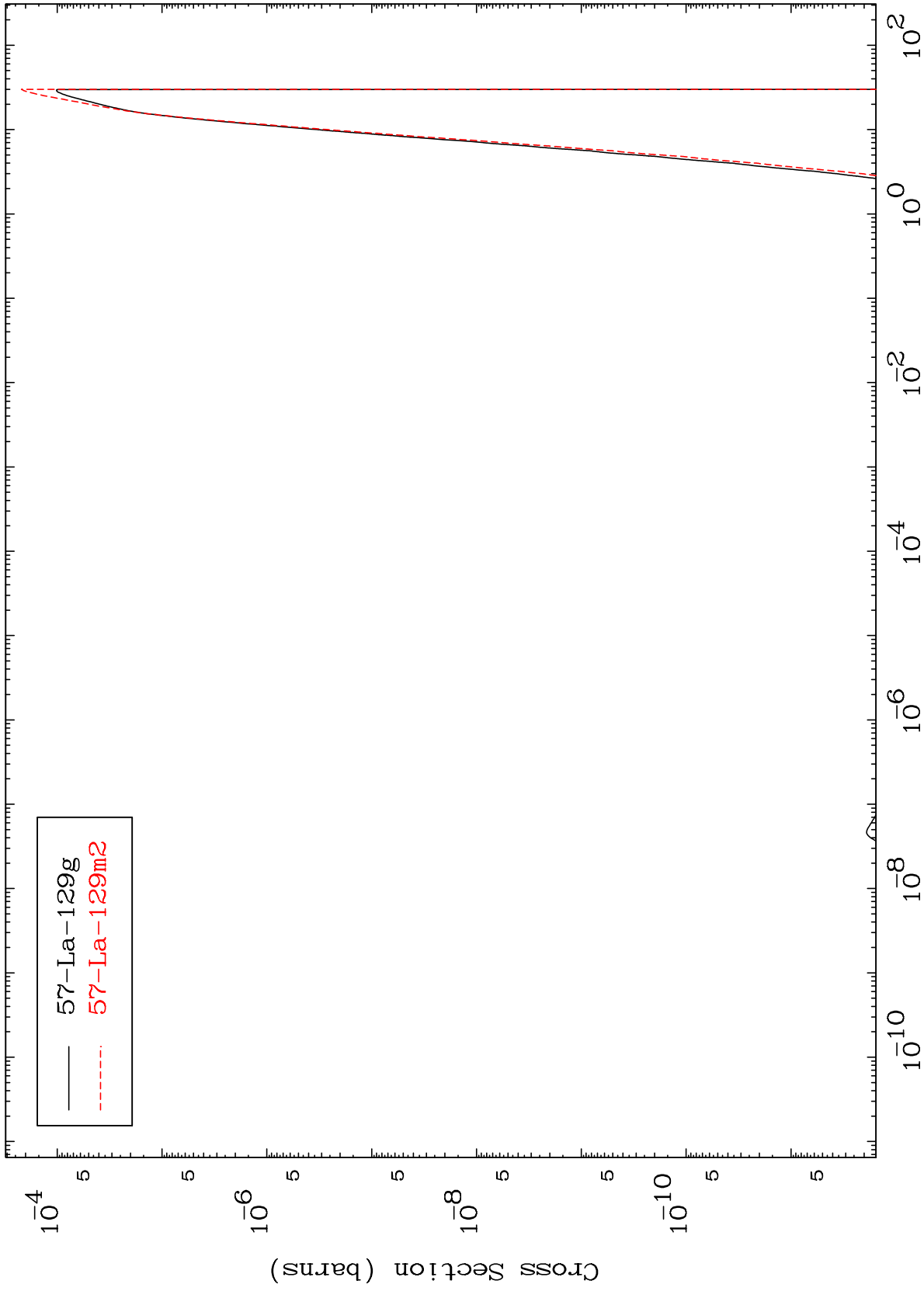
61-Pm-136

MAT 6116

(n,2α)

61-Pm-136

Radionuclide Production Cross Section



132

Incident Energy (MeV)

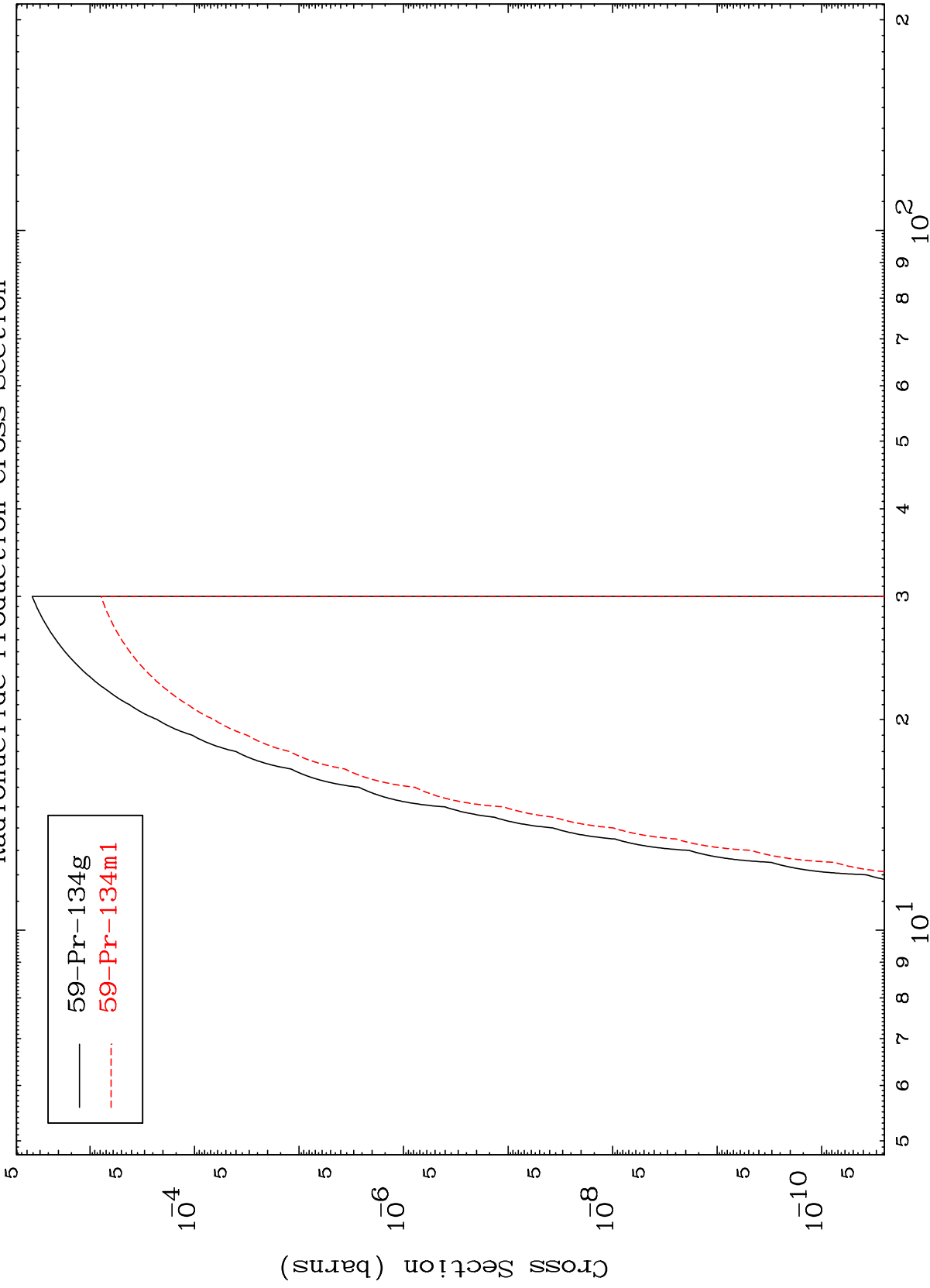
61-Pm-136

MAT 6116

(n,p) d

61-Pm-136

Radionuclide Production Cross Section



133

Incident Energy (MeV)

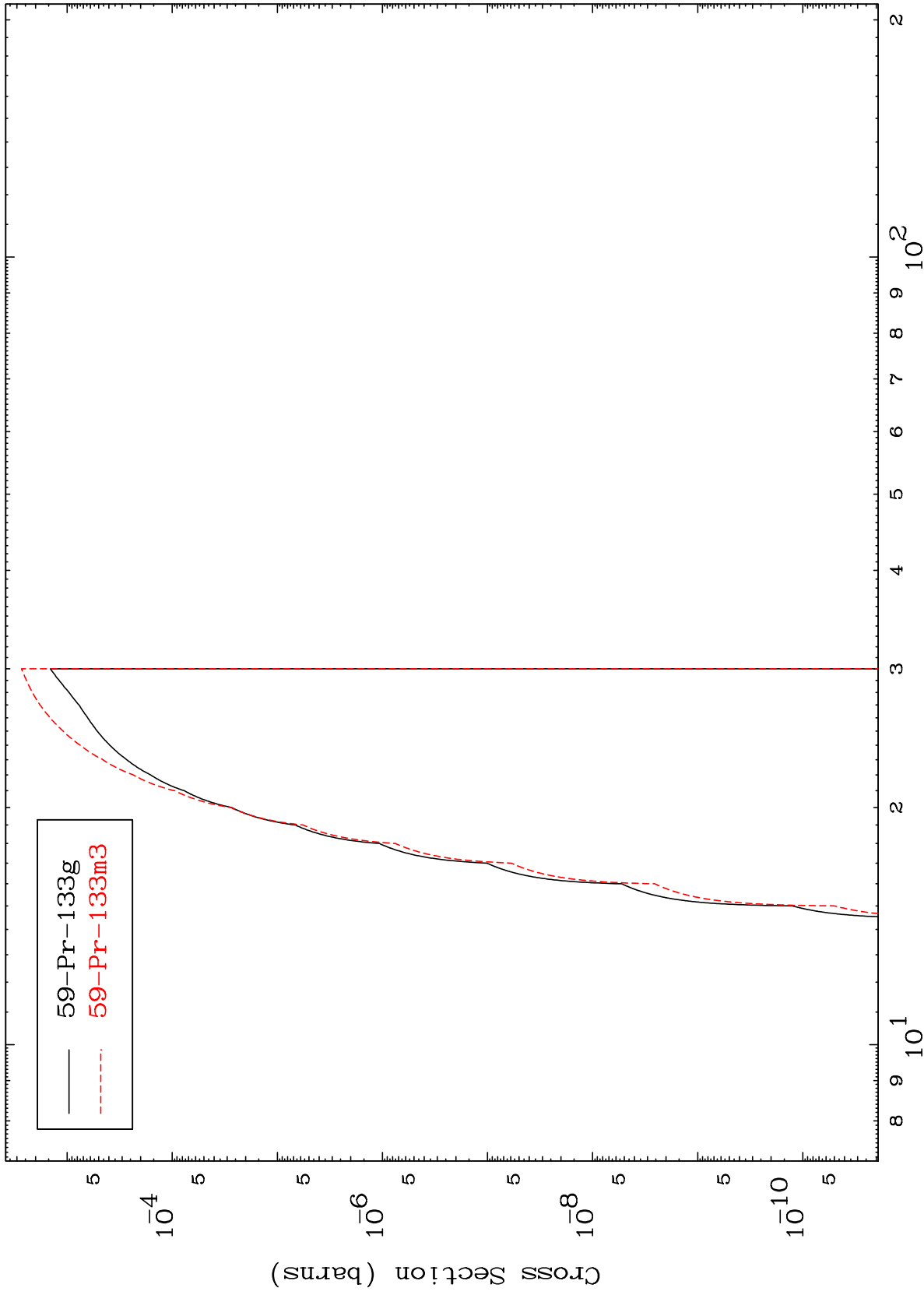
61-Pm-136

MAT 6116

(n,p) t

61-Pm-136

Radionuclide Production Cross Section



134

Incident Energy (MeV)

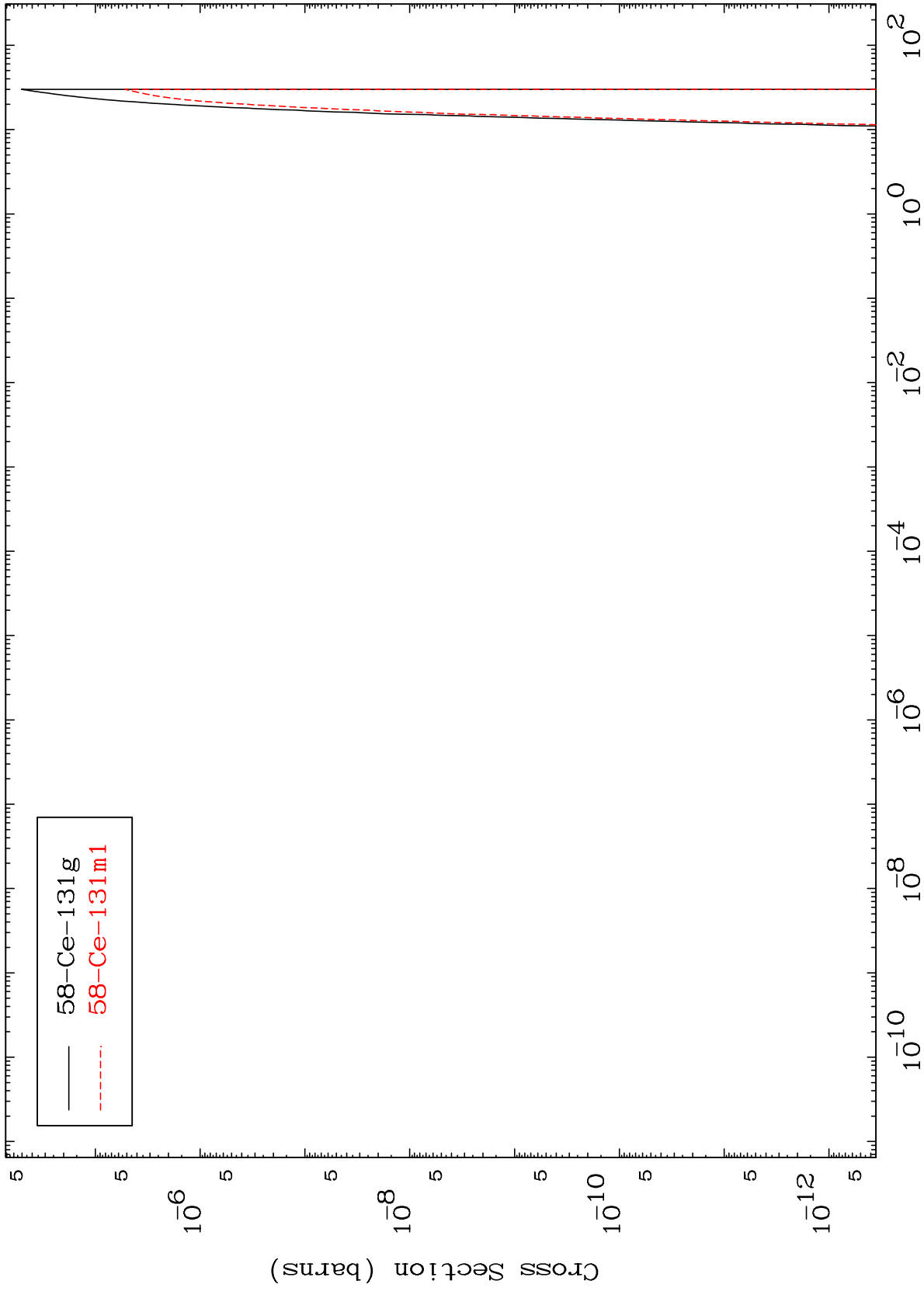
61-Pm-136

MAT 6116

(n,d)  $\alpha$

61-Pm-136

Radionuclide Production Cross Section



135

Incident Energy (MeV)

61-Pm-136