

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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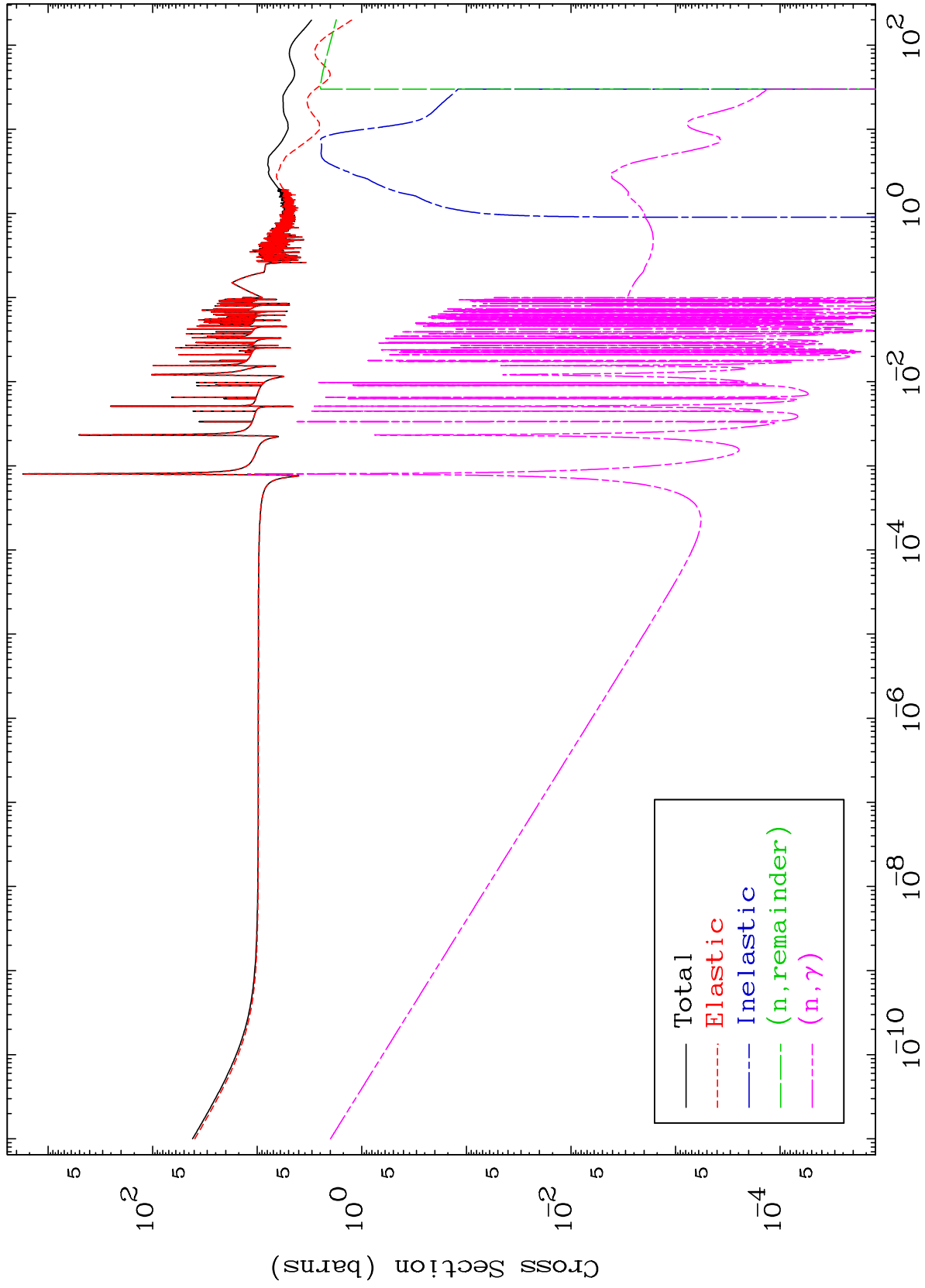
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8325

Major  
293 Kelvin Cross Sections

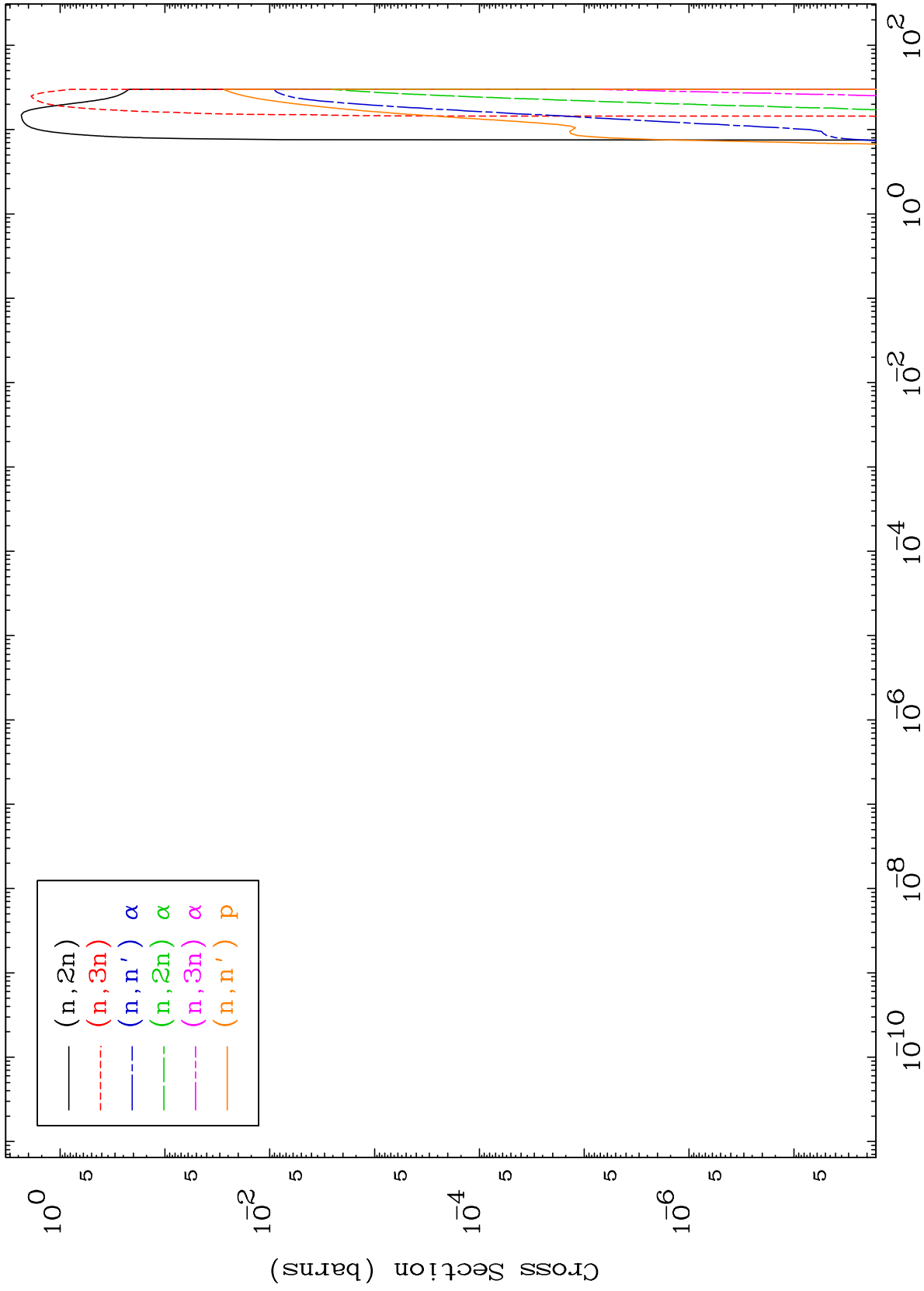
83-Bi-209



MAT 8325

Neutron Production  
293 Kelvin Cross Sections

83-Bi-209



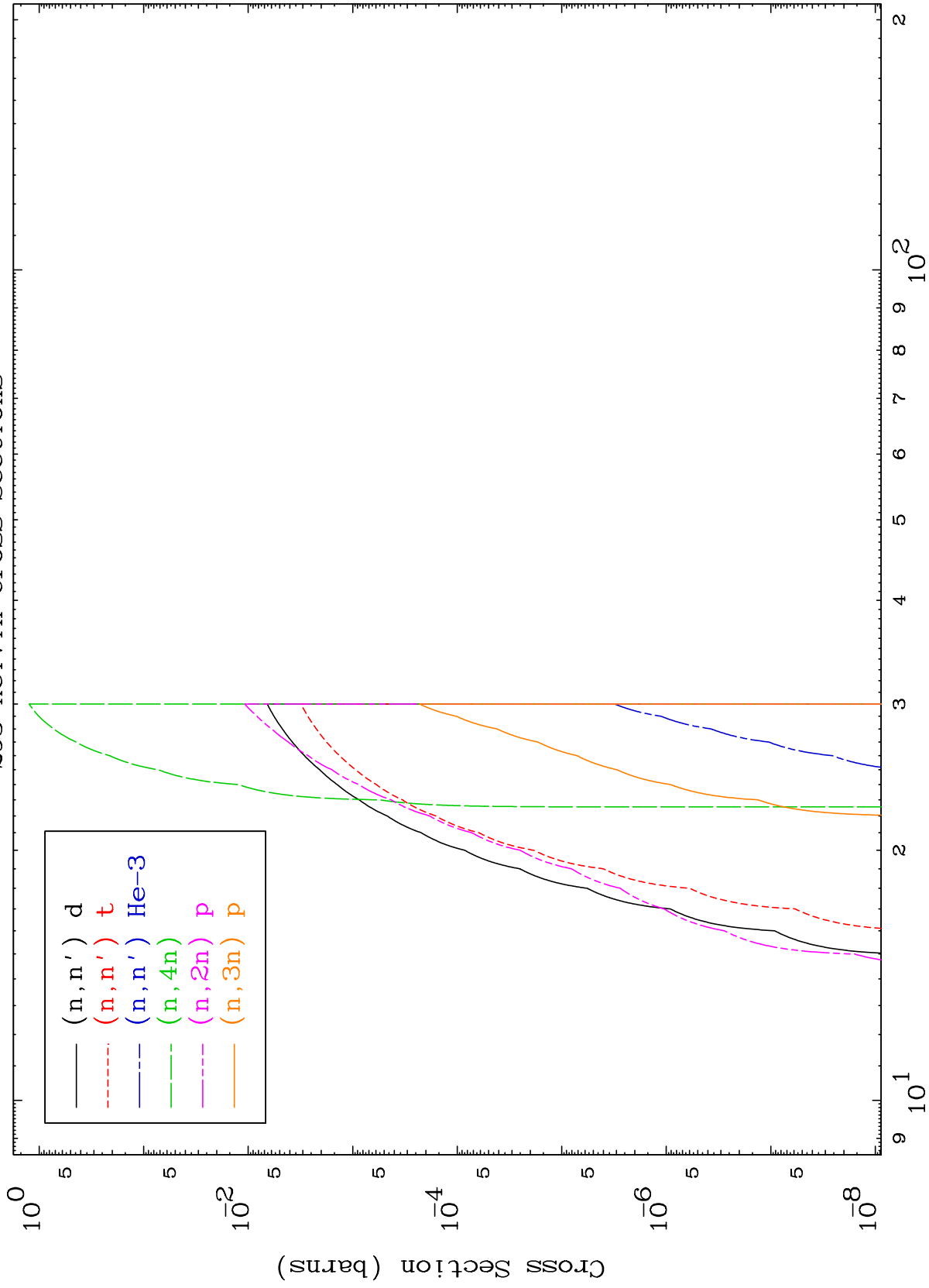
2

83-Bi-209

MAT 8325

Neutron Production  
293 Kelvin Cross Sections

83-Bi-209



3

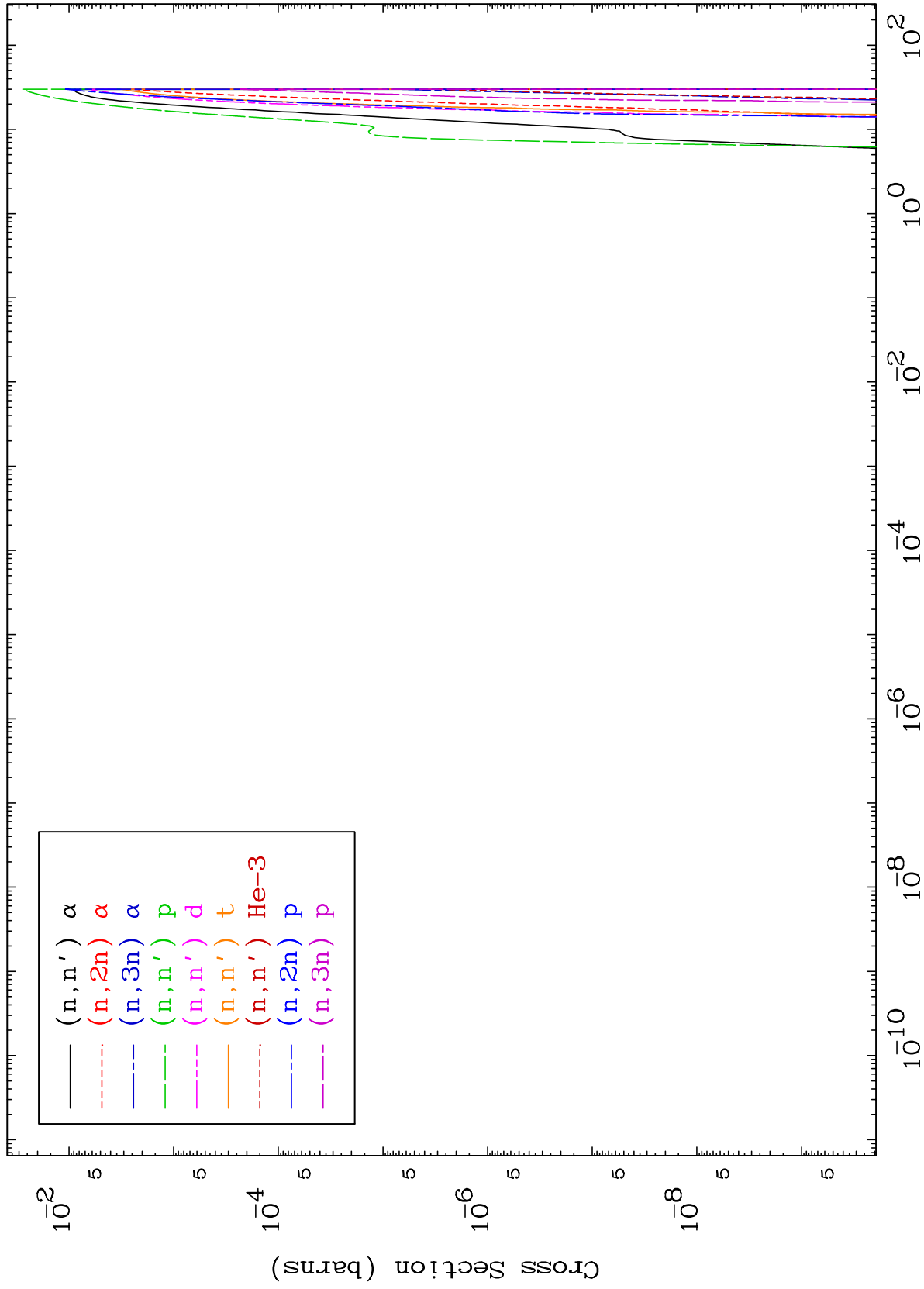
Incident Energy (MeV)

83-Bi-209

MAT 8325

Charged Particle  
293 Kelvin Cross Sections

83-Bi-209

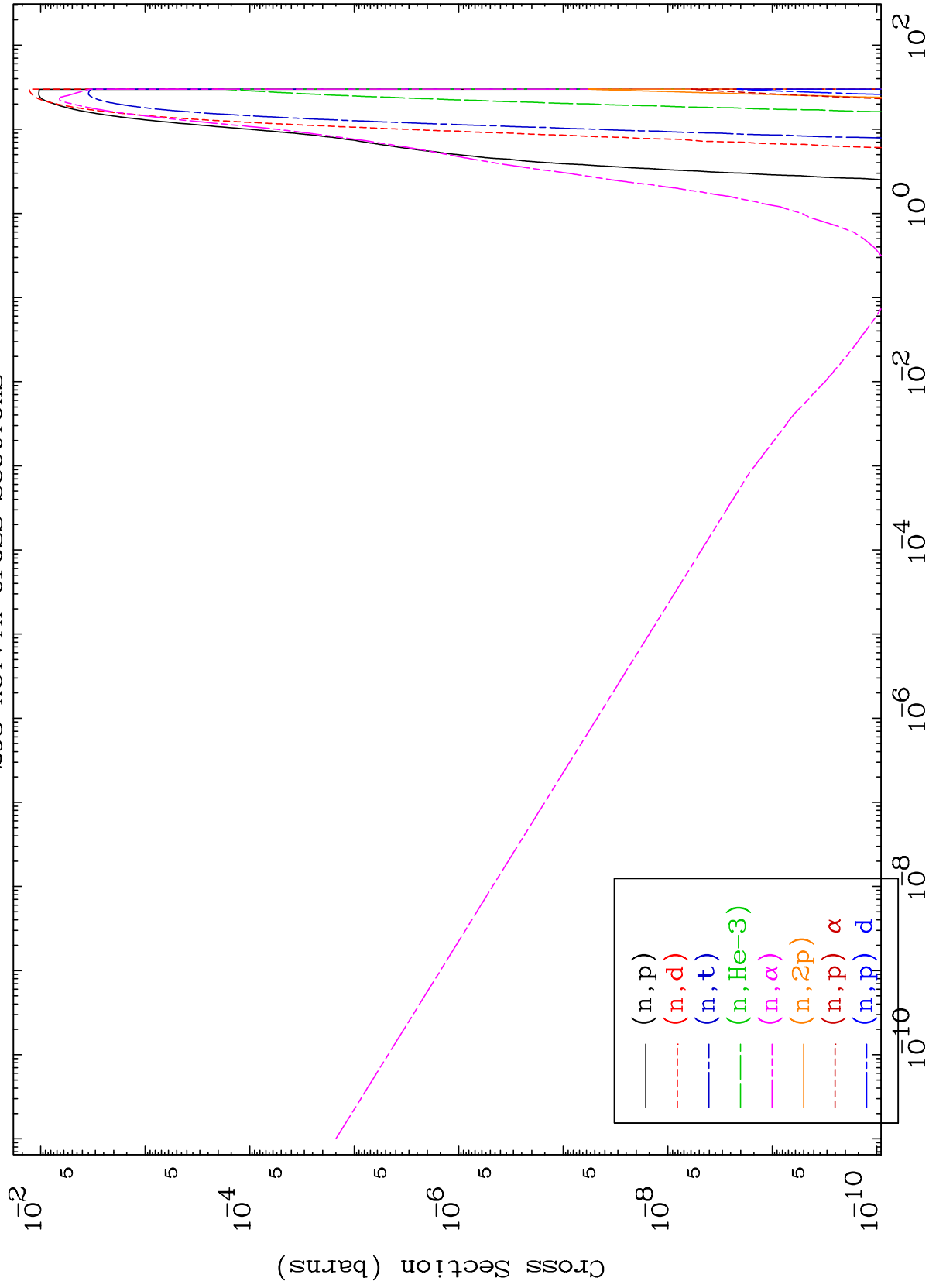


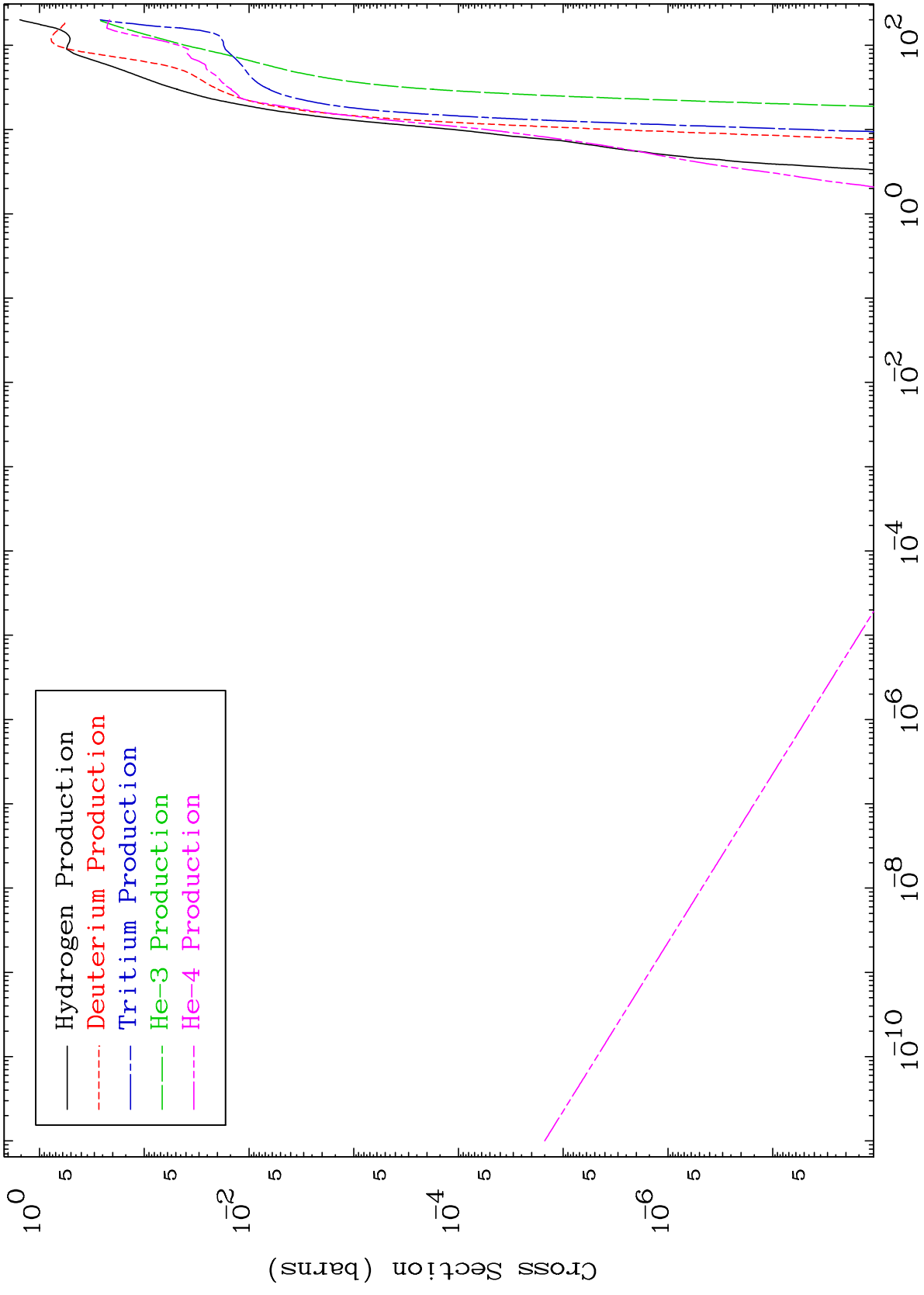
83-Bi-209

MAT 8325

Charged Particle  
293 Kelvin Cross Sections

83-Bi-209



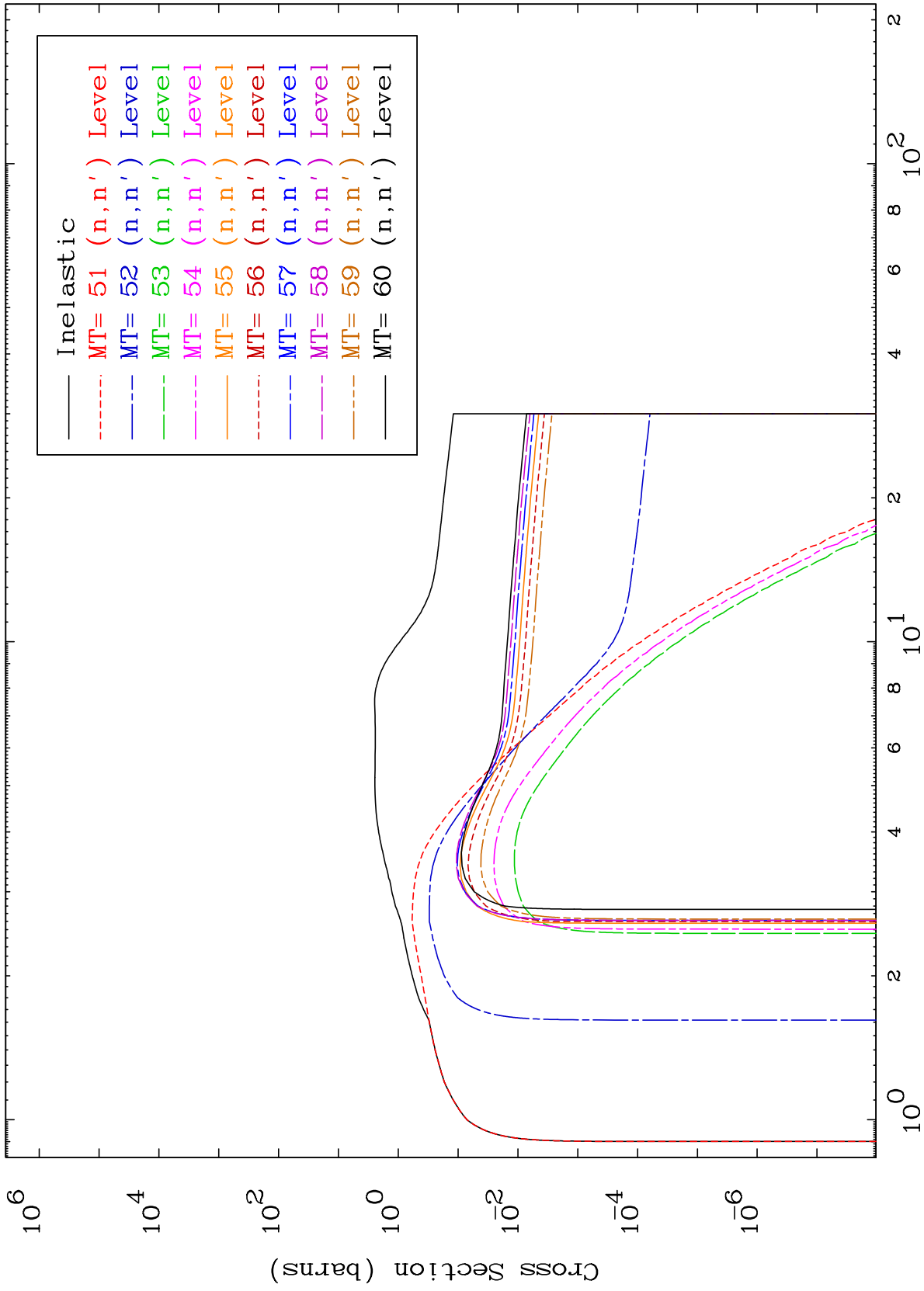


MAT 8325

(n,n') Level

83-Bi-209

293 Kelvin Cross Sections



Incident Energy (MeV)

83-Bi-209

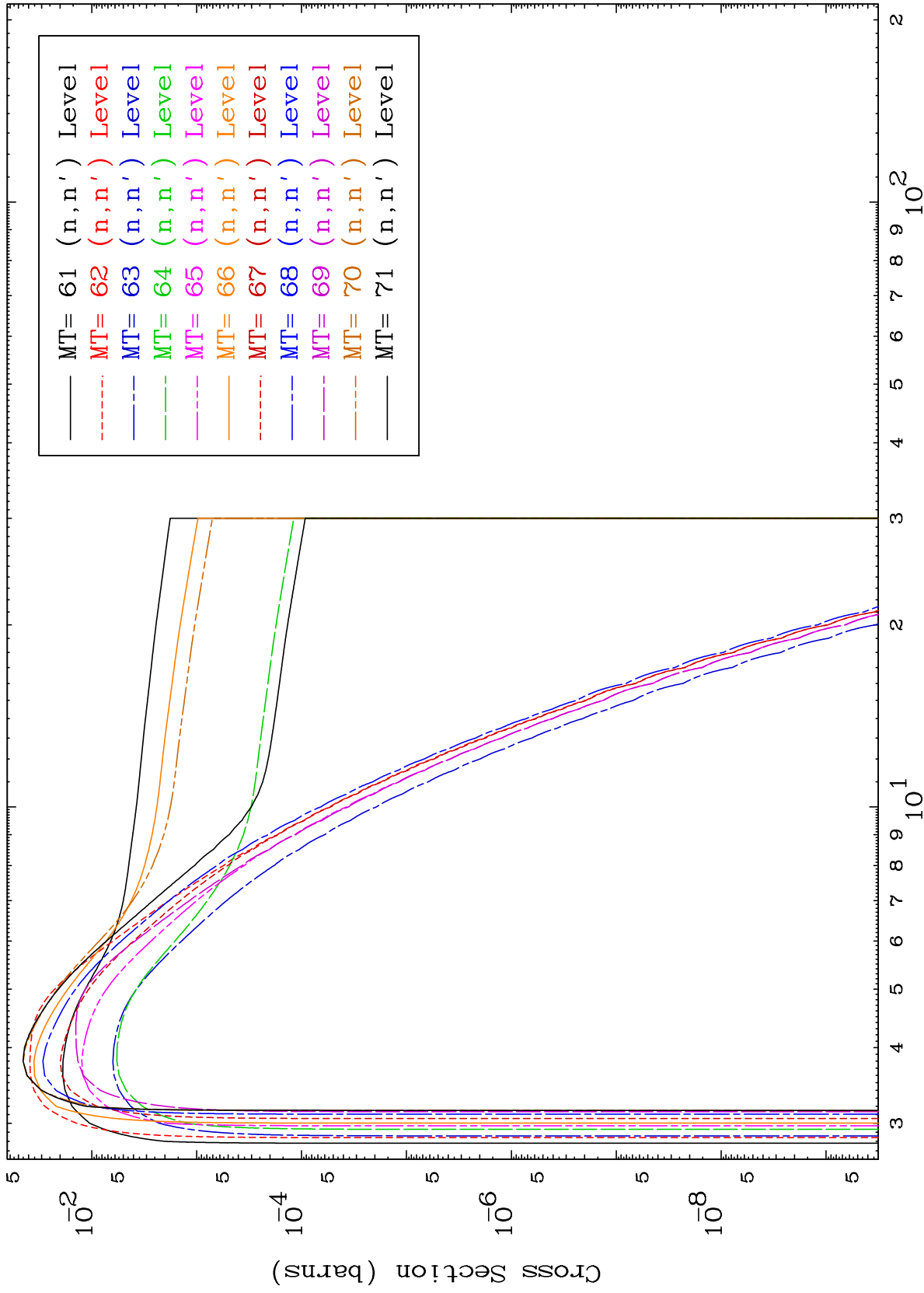


MAT 8325

(n,n') Level

83-Bi-209

293 Kelvin Cross Sections



8

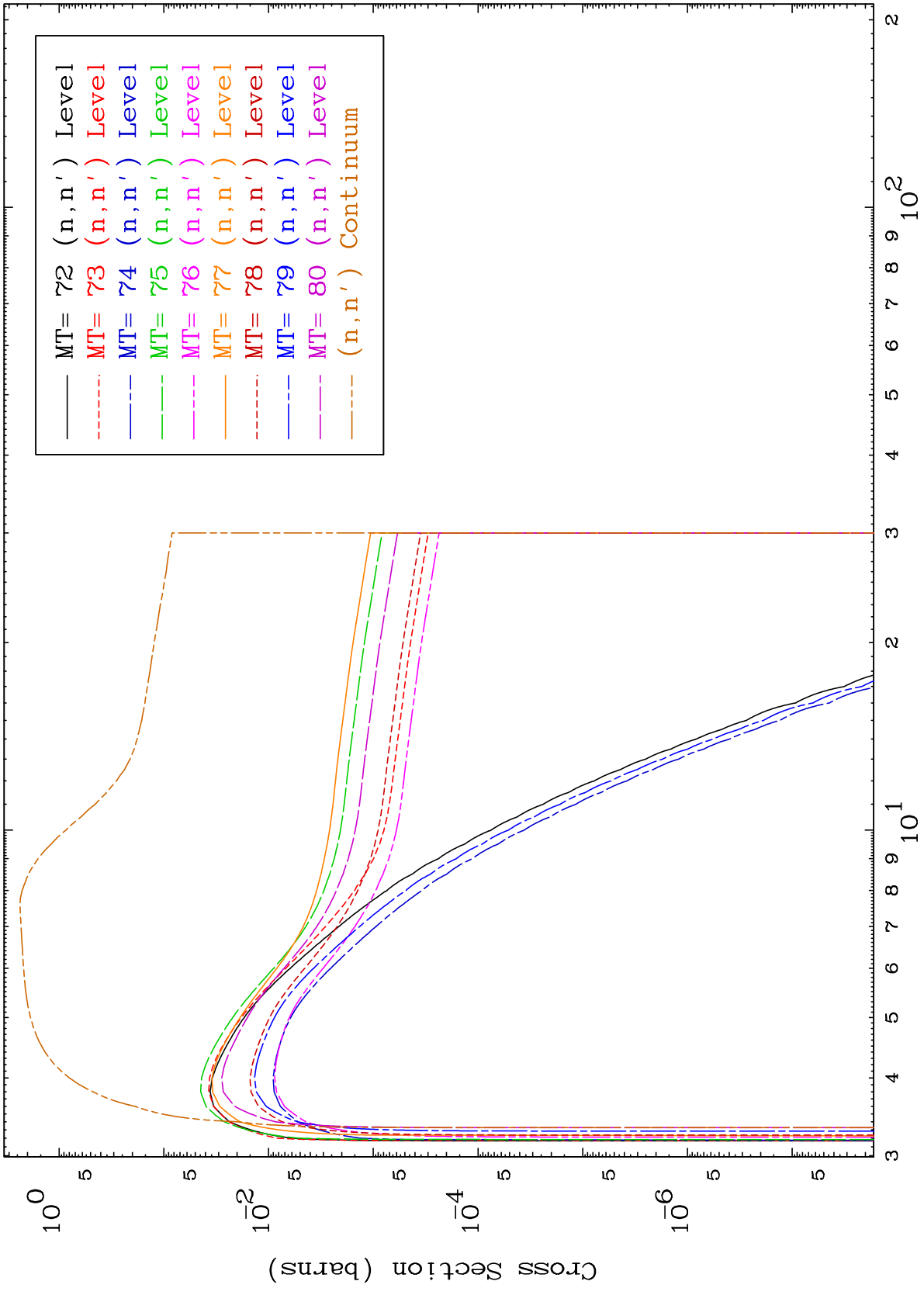
Incident Energy (MeV)

83-Bi-209

MAT 8325

(n,n') Level  
293 Kelvin Cross Sections

83-Bi-209



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Incident Energy (MeV)

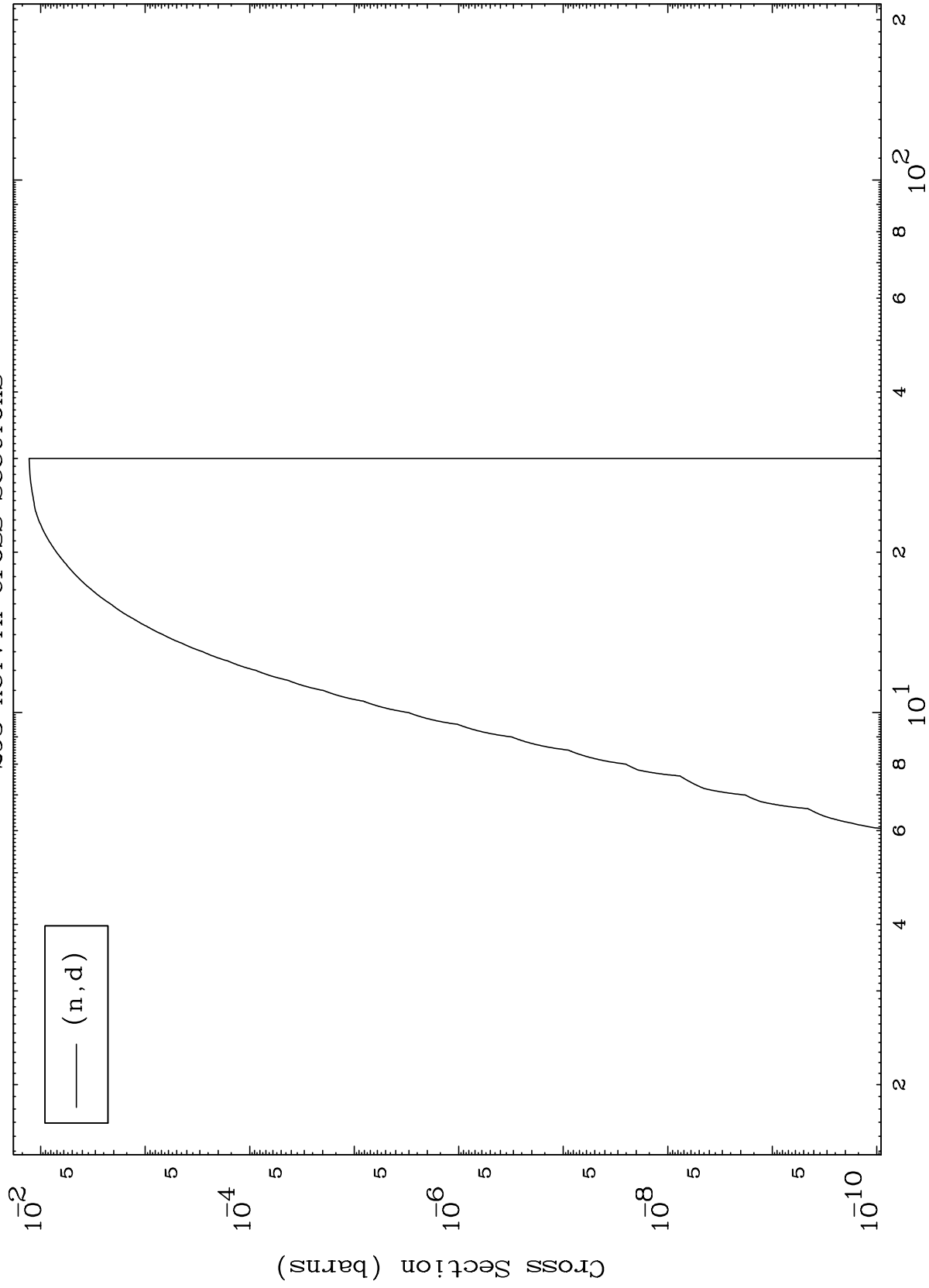
83-Bi-209



MAT 8325

(n,d) Levels  
293 Kelvin Cross Sections

83-Bi-209



11

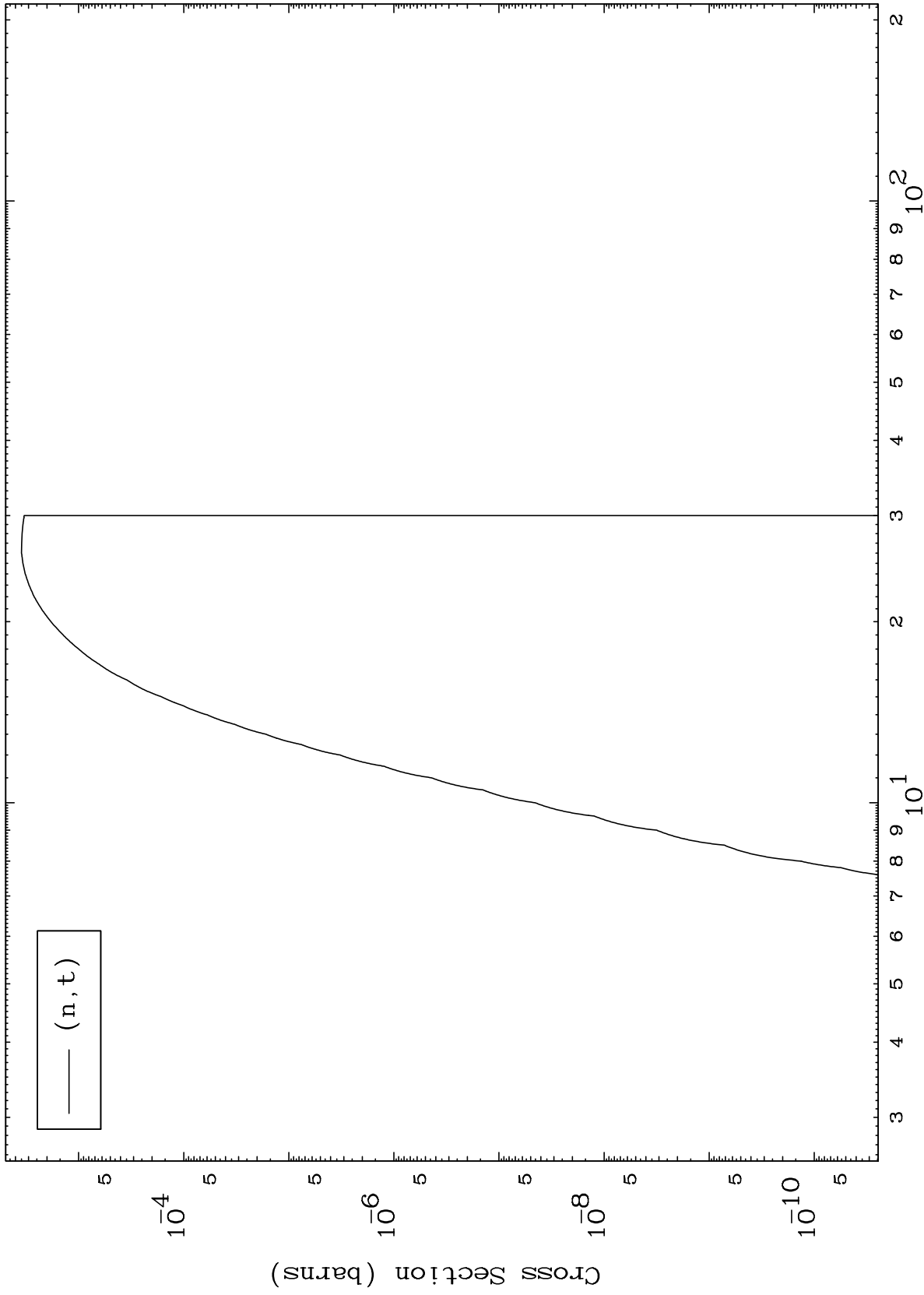
Incident Energy (MeV)

83-Bi-209

MAT 8325

(n,t) Levels  
293 Kelvin Cross Sections

83-Bi-209



12

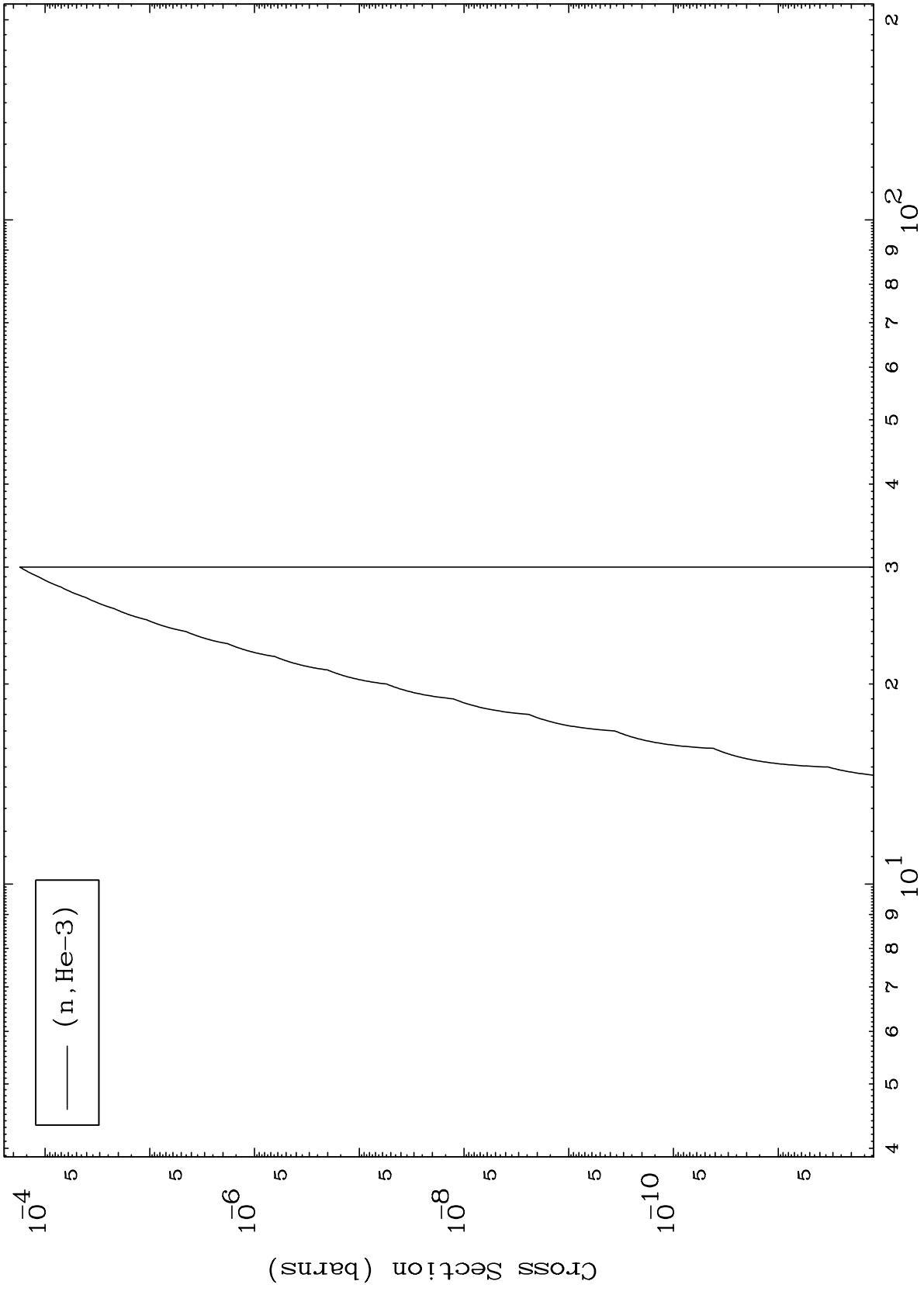
Incident Energy (MeV)

83-Bi-209

MAT 8325

(n,He3) Levels  
293 Kelvin Cross Sections

83-Bi-209



13

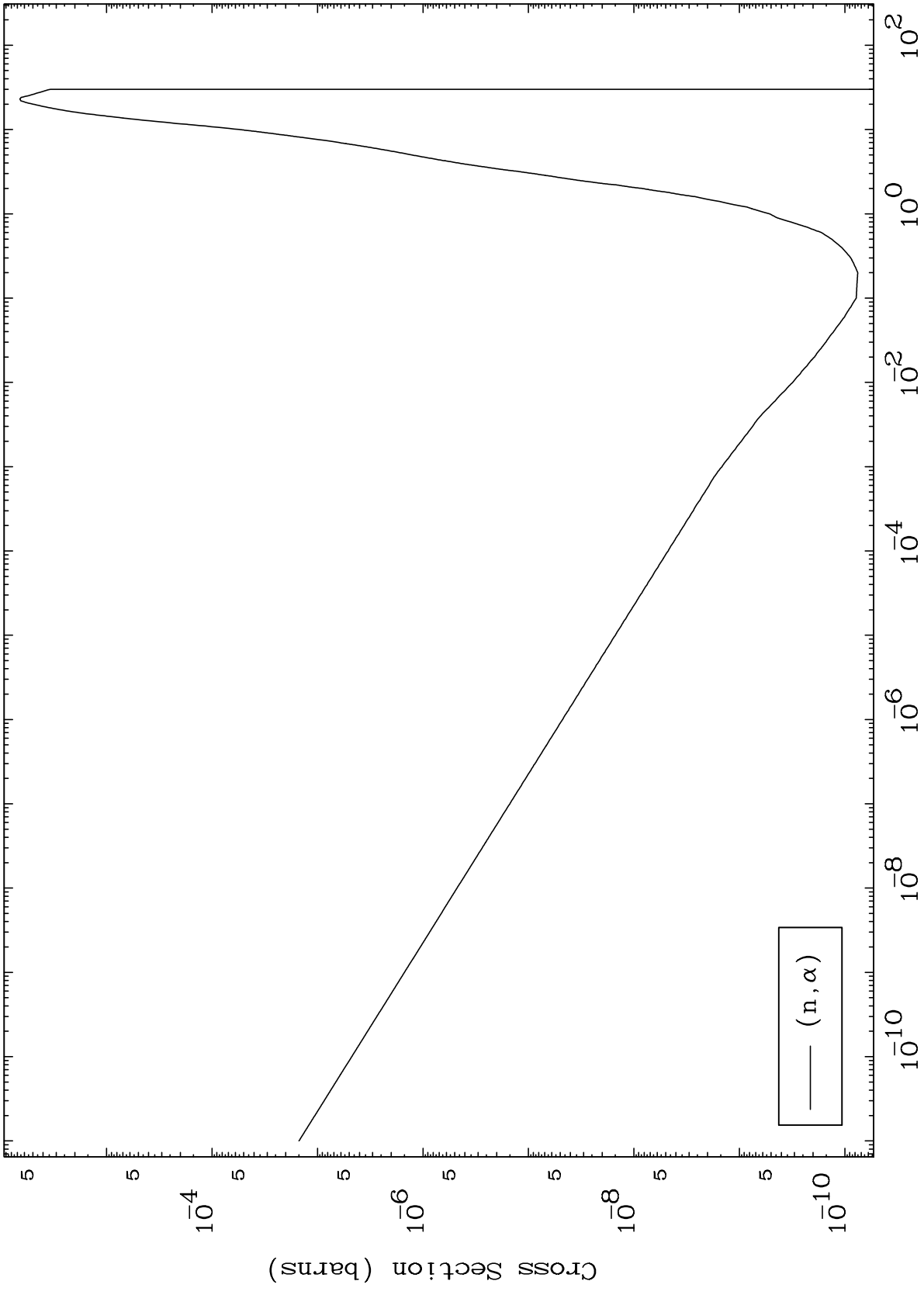
Incident Energy (MeV)

83-Bi-209

MAT 8325

(n,α) Levels  
293 Kelvin Cross Sections

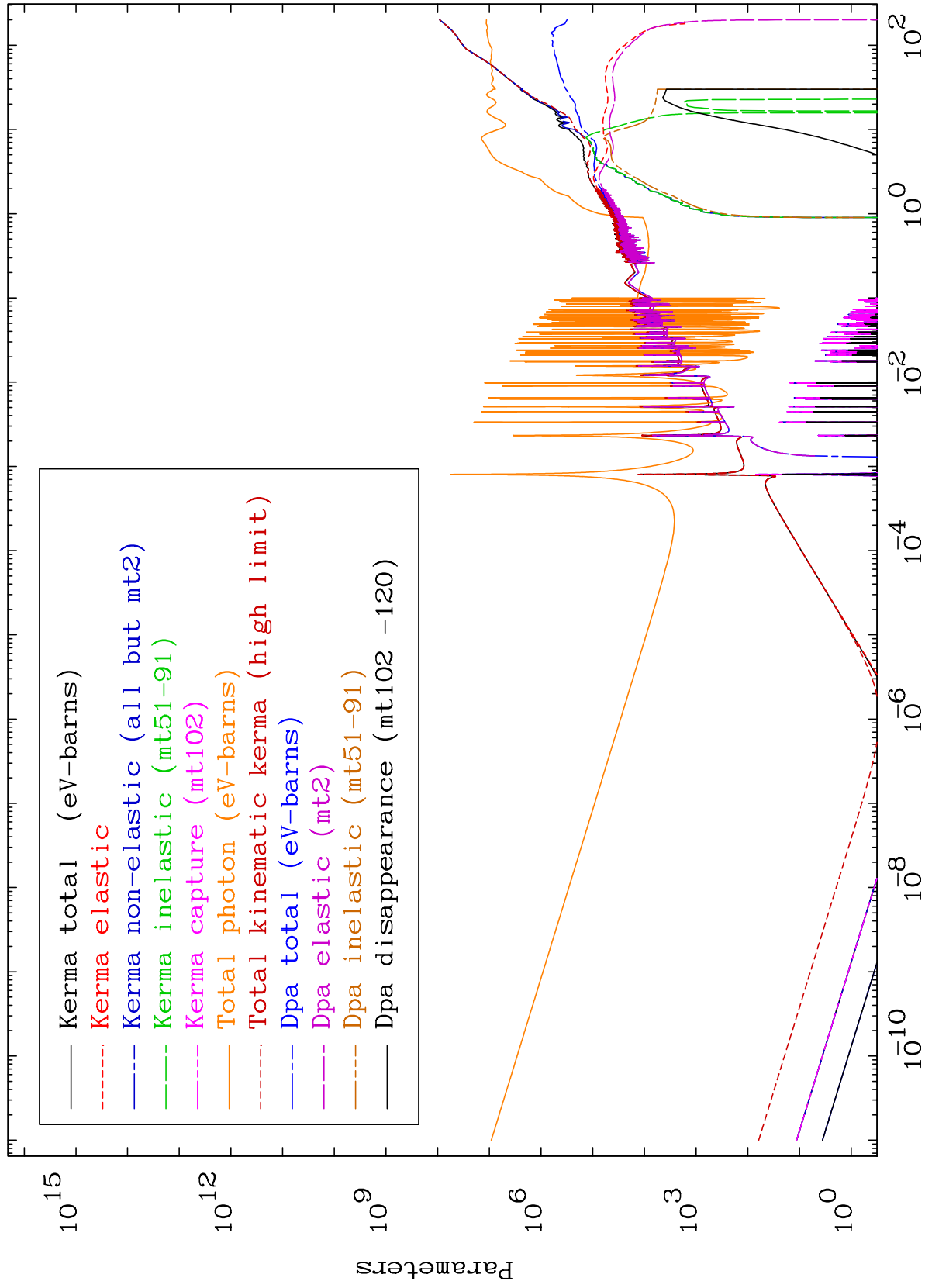
83-Bi-209



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Incident Energy (MeV)

83-Bi-209

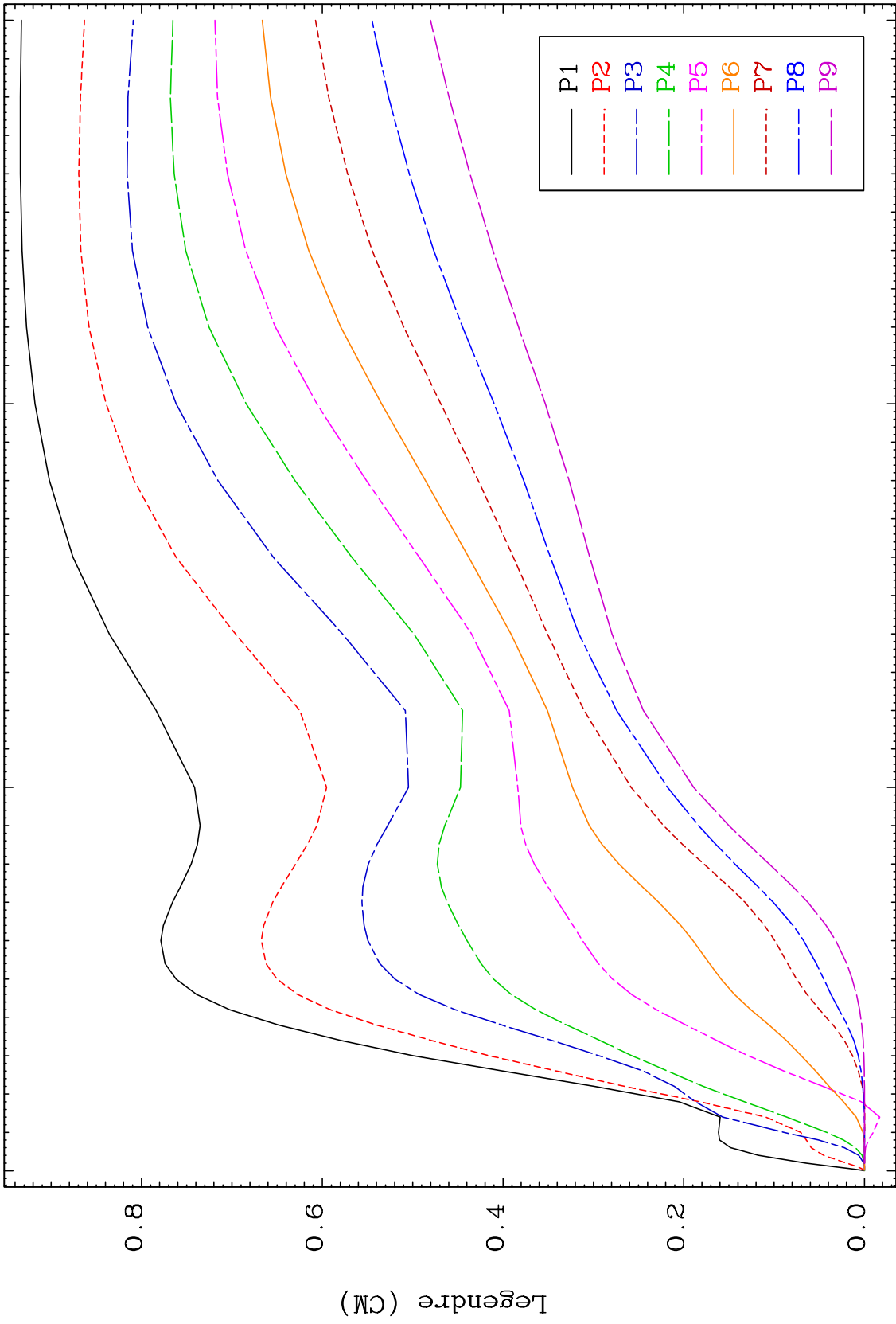




MAT 8325

Elastic Legendre Coefficients

83-Bi-209



16

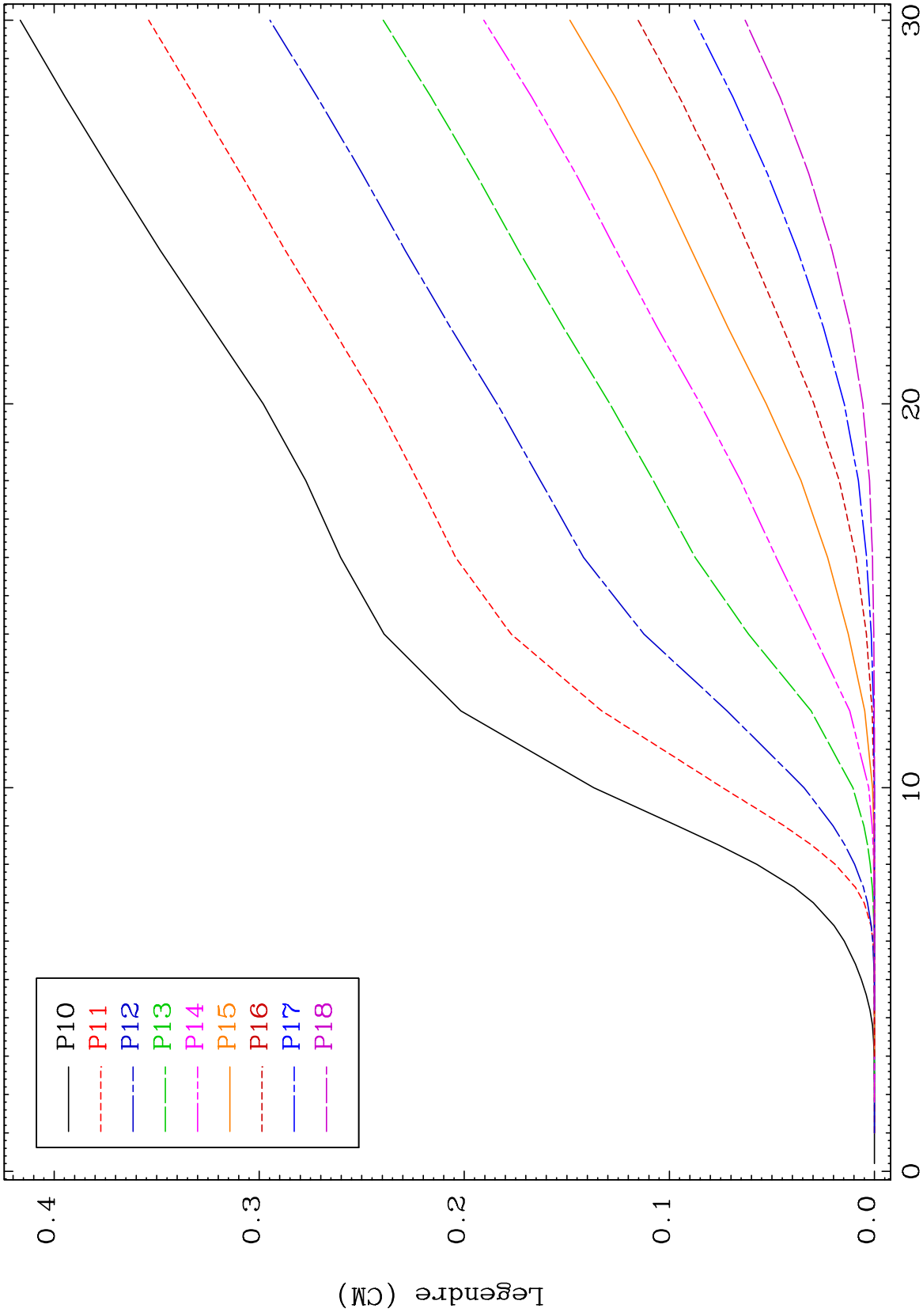
Incident Energy (MeV)

83-Bi-209

MAT 8325

Elastic Legendre Coefficients

83-Bi-209



17

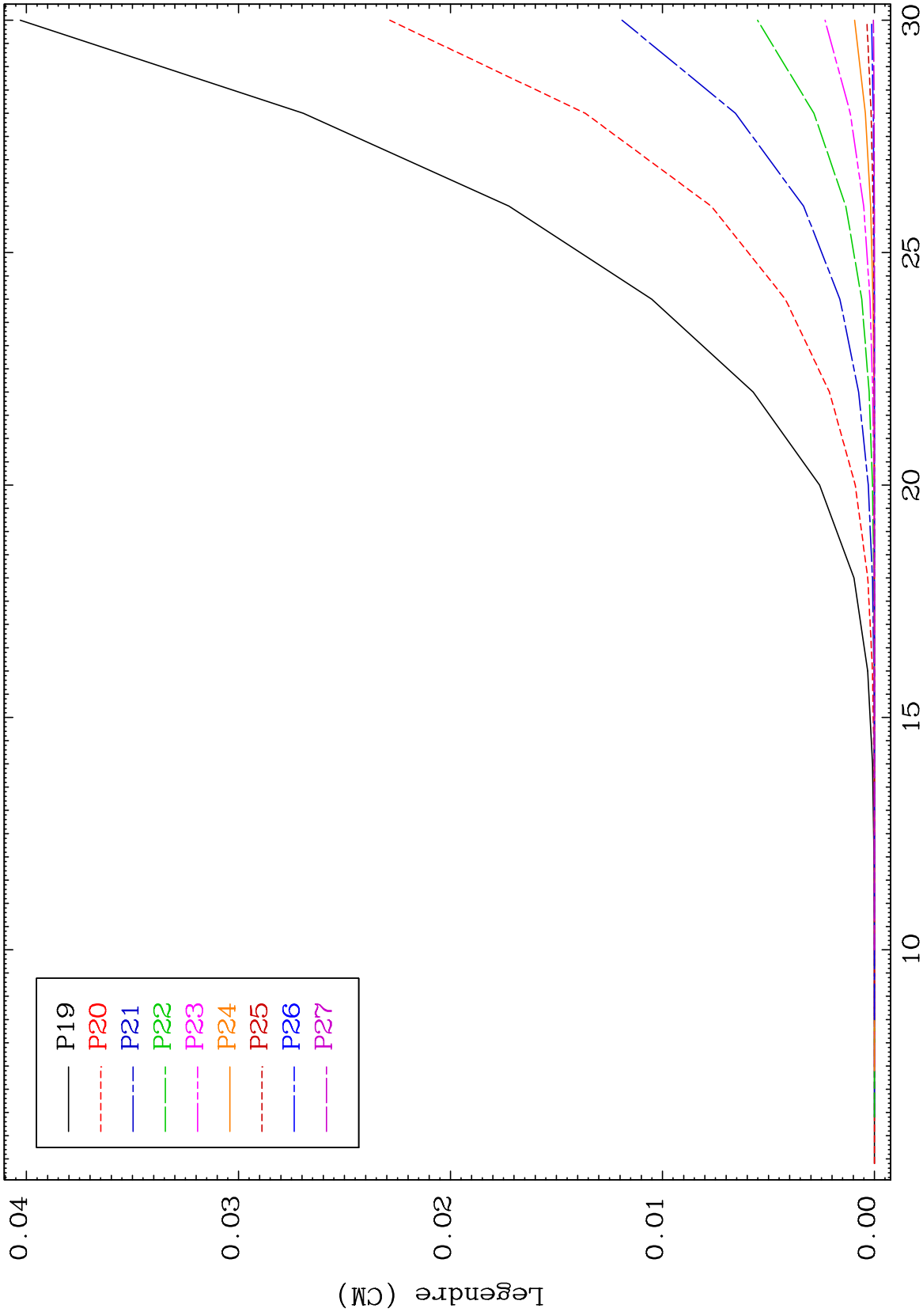
Incident Energy (MeV)

83-Bi-209

MAT 8325

### Elastic Legendre Coefficients

83-Bi-209



18

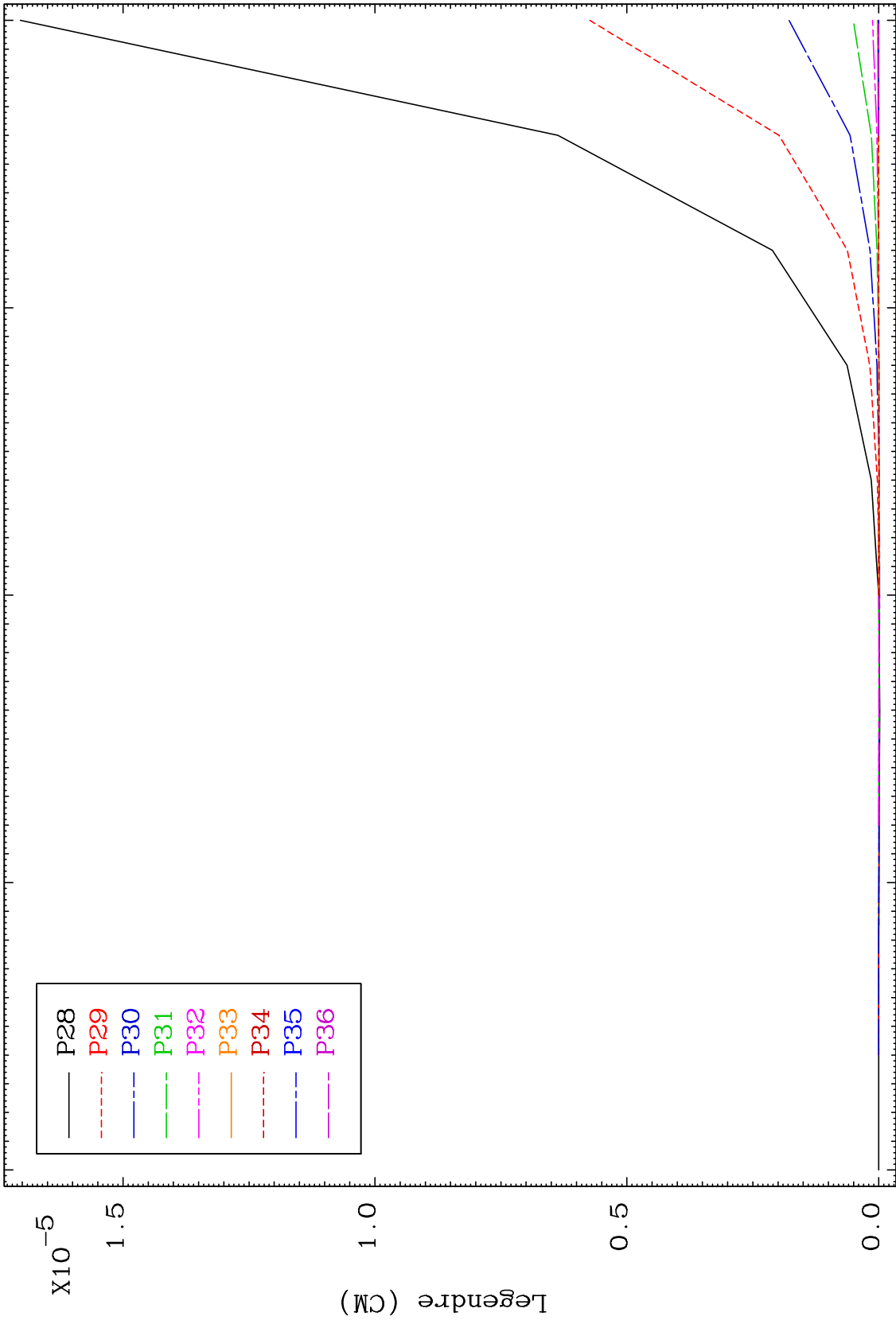
Incident Energy (MeV)

83-Bi-209

MAT 8325

### Elastic Legendre Coefficients

83-Bi-209

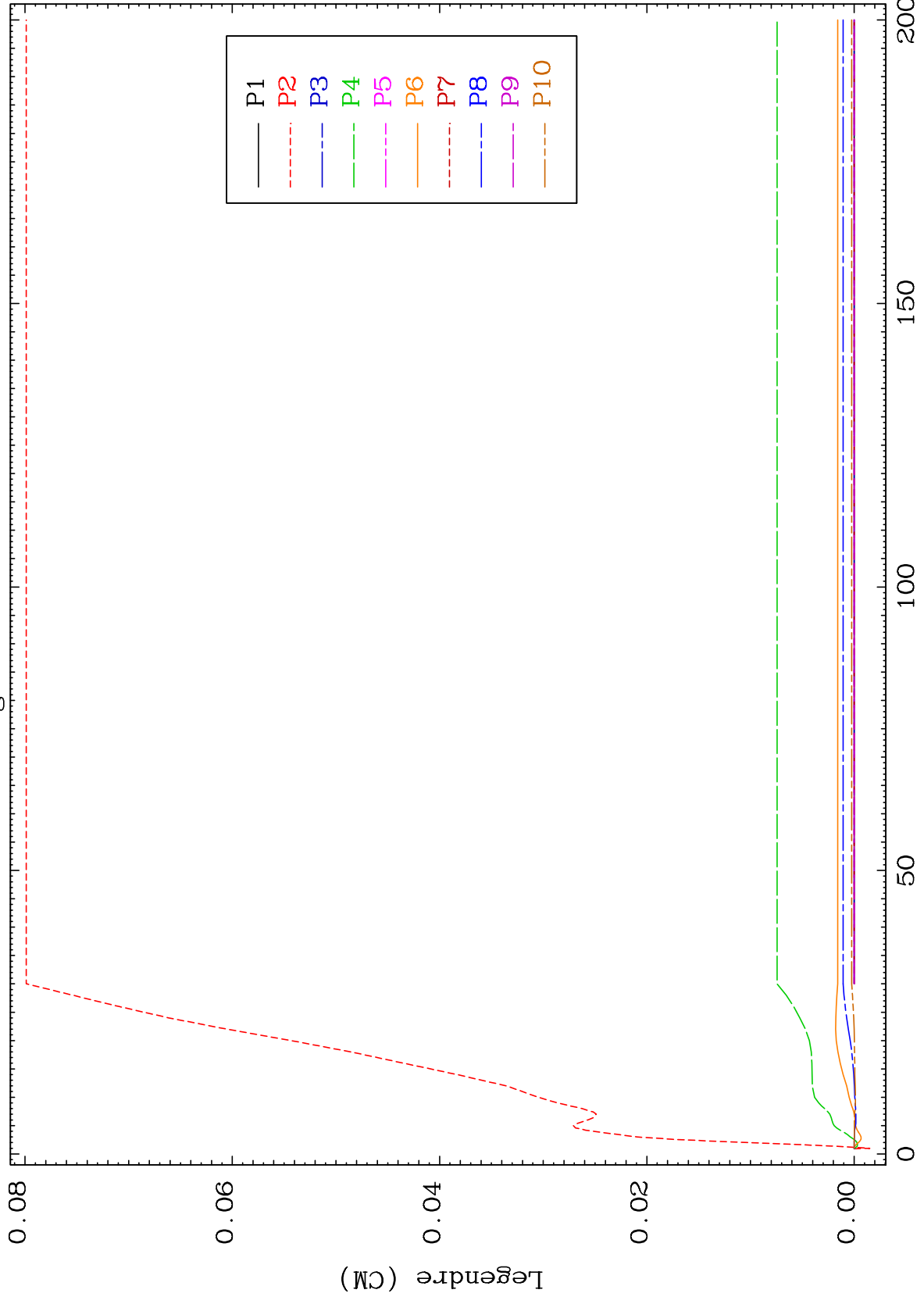


19

Incident Energy (MeV)

83-Bi-209

MAT 8325 MT= 51 (n,n') Level Legendre Coefficients 83-Bi-209

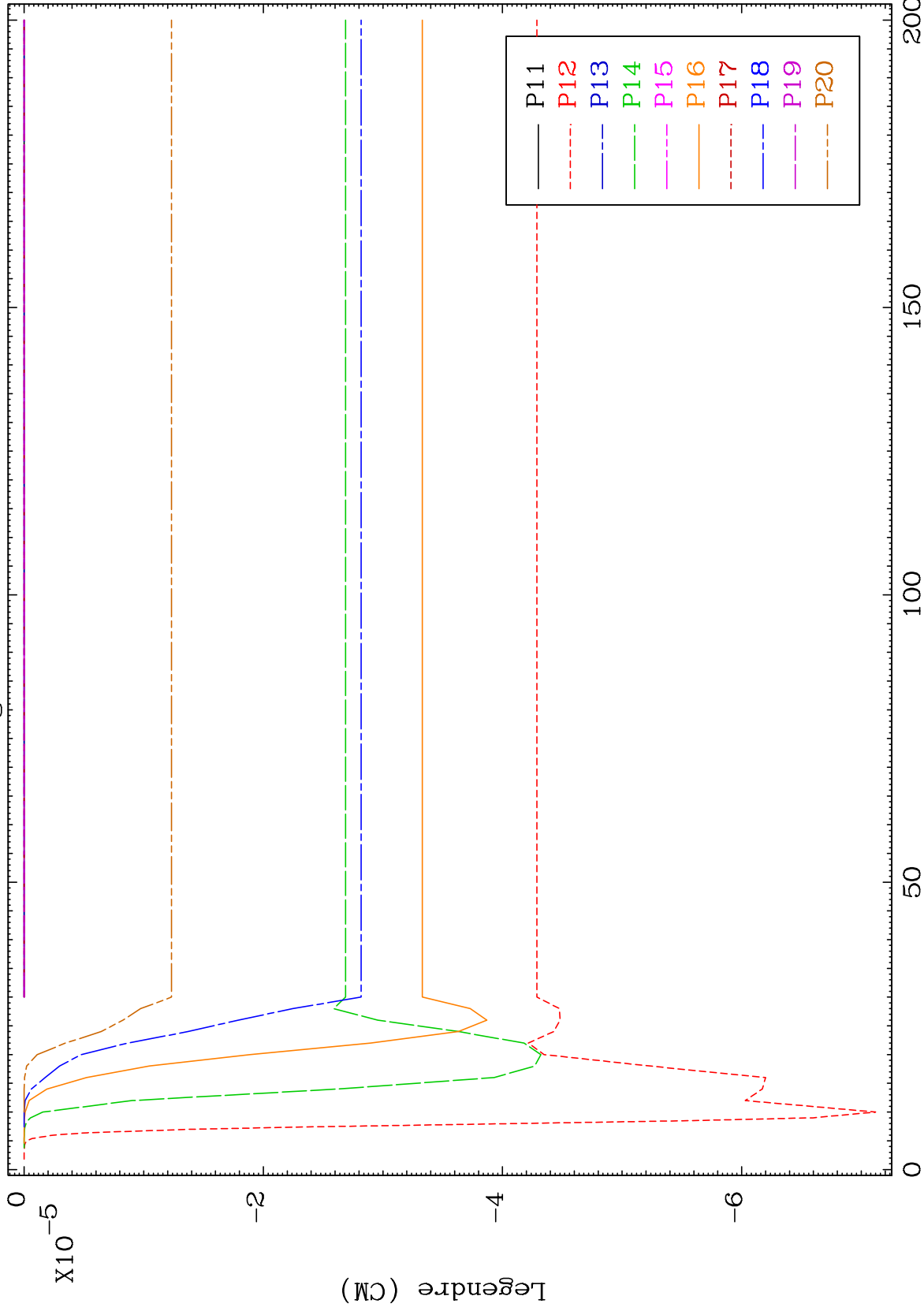


83-Bi-209

MAT 8325

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

83-Bi-209



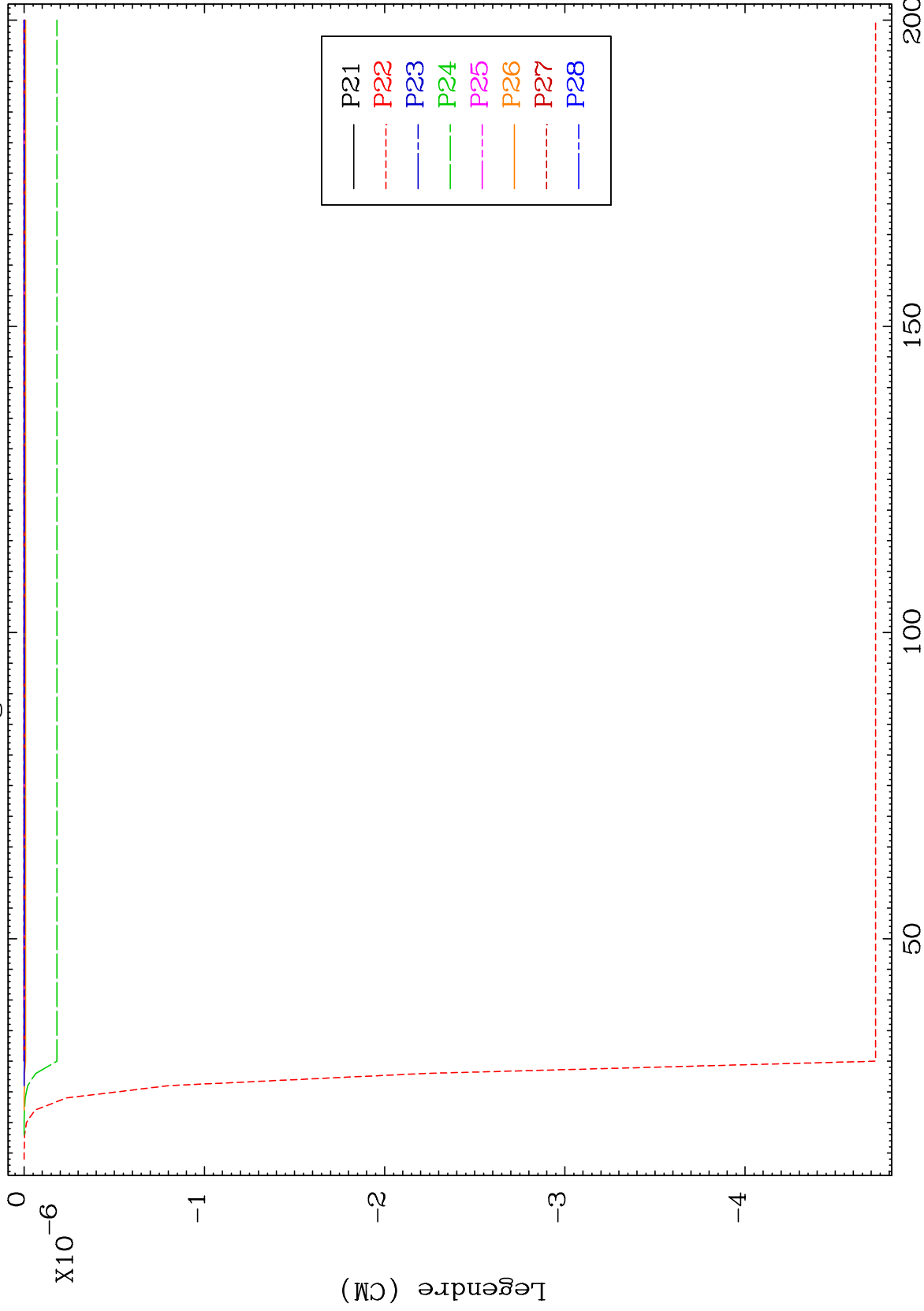
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83-Bi-209

MAT 8325

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

83-Bi-209



22

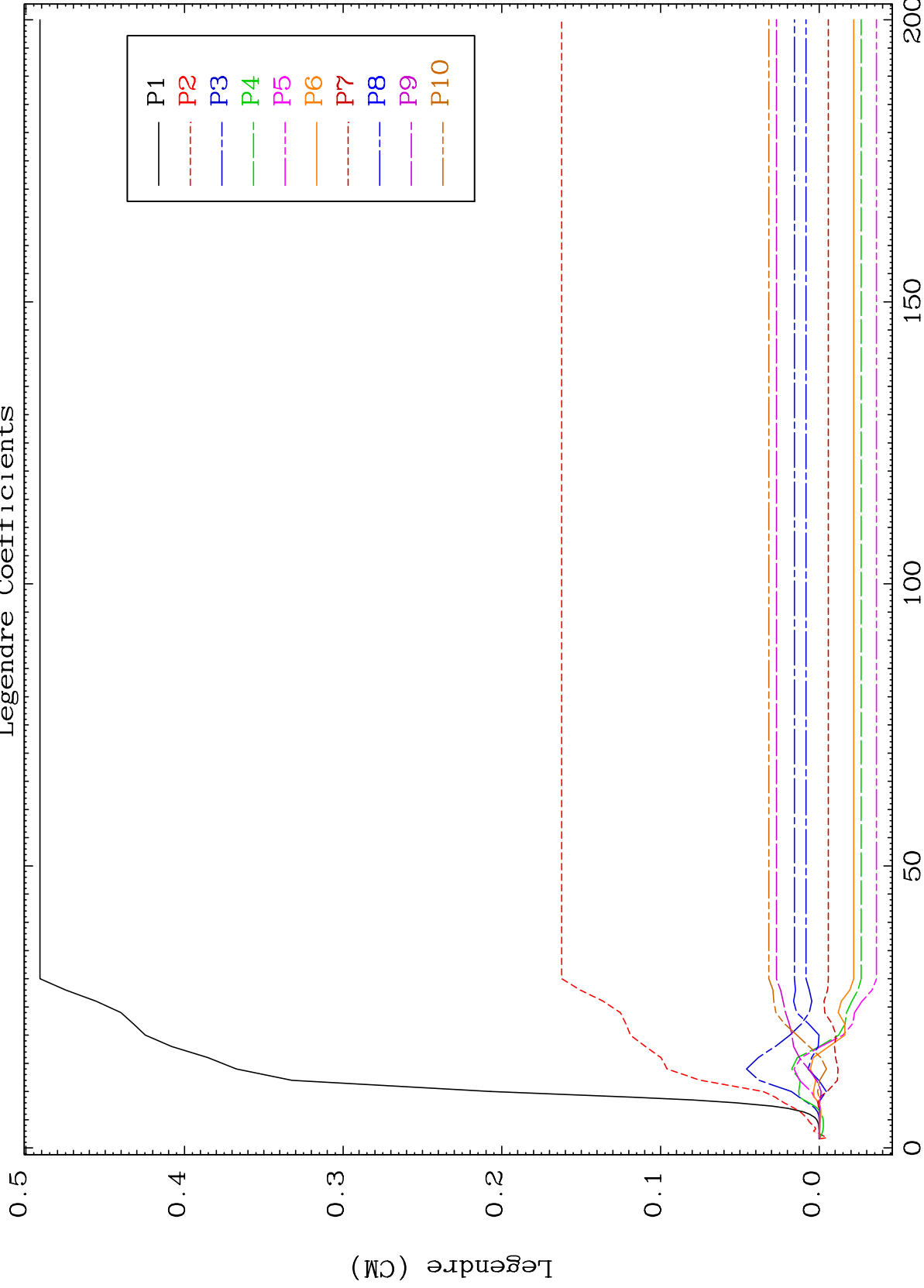
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



23

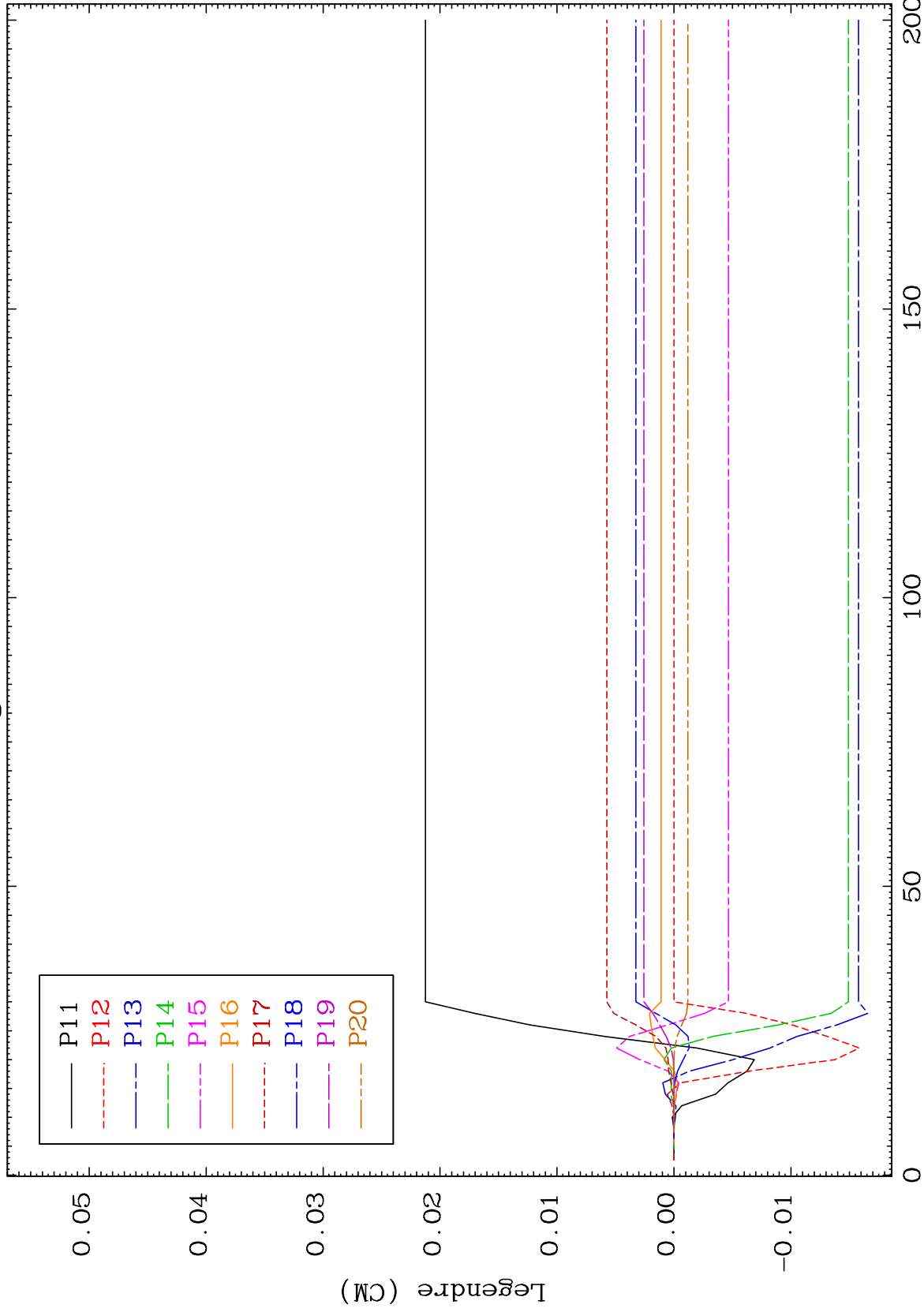
83-Bi-209



MAT 8325

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

83-Bi-209



24

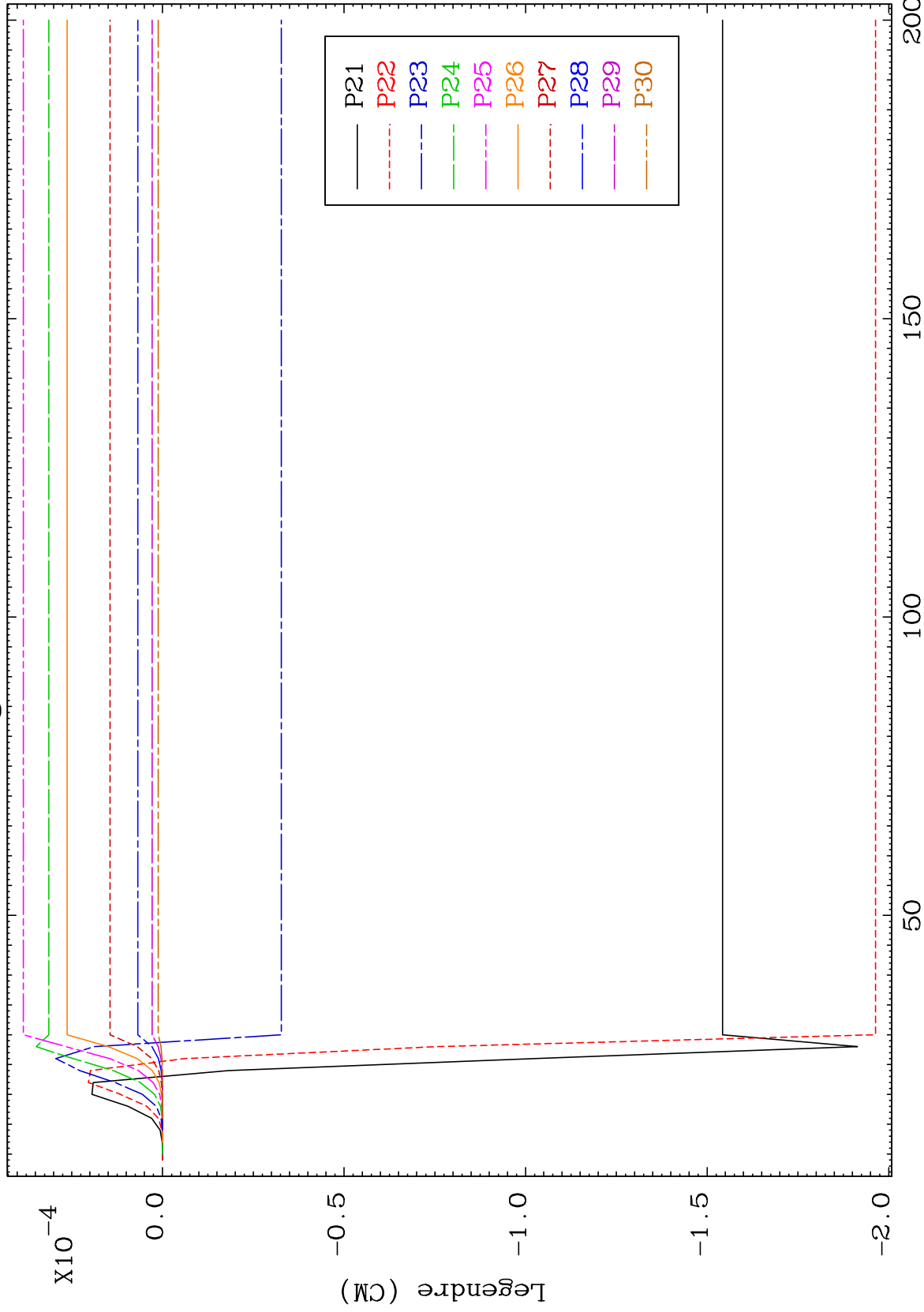
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



25

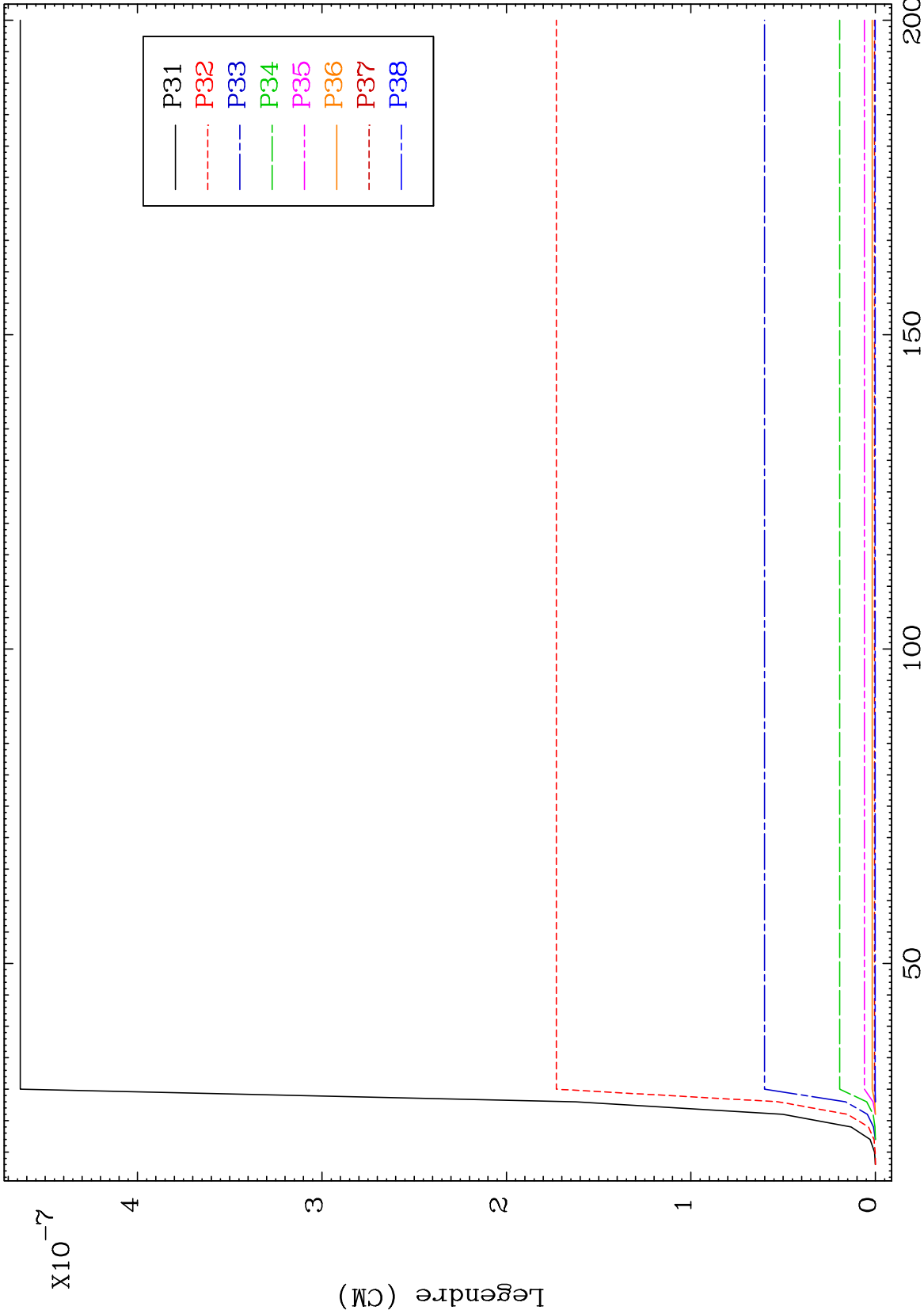
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



26

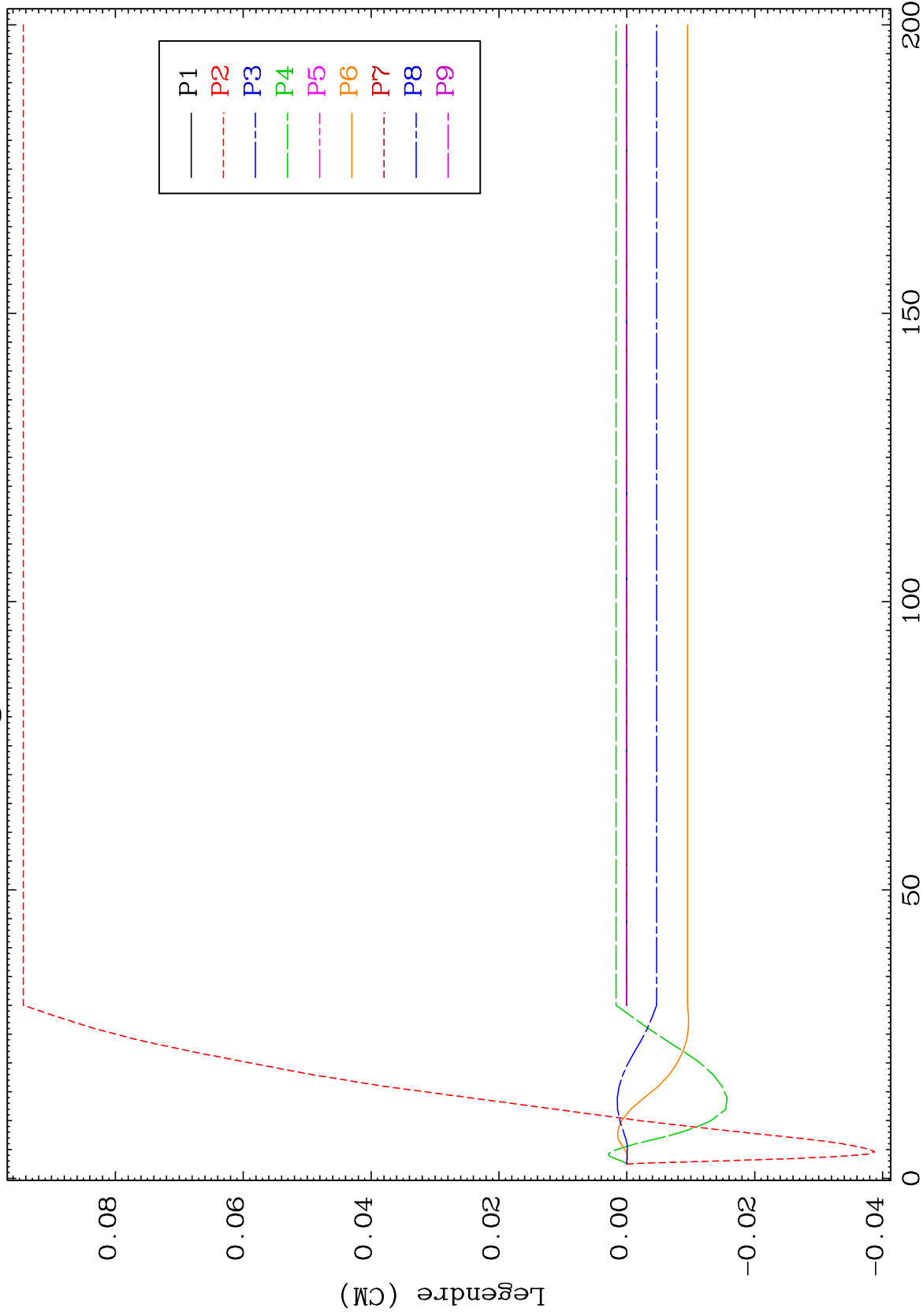
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



27

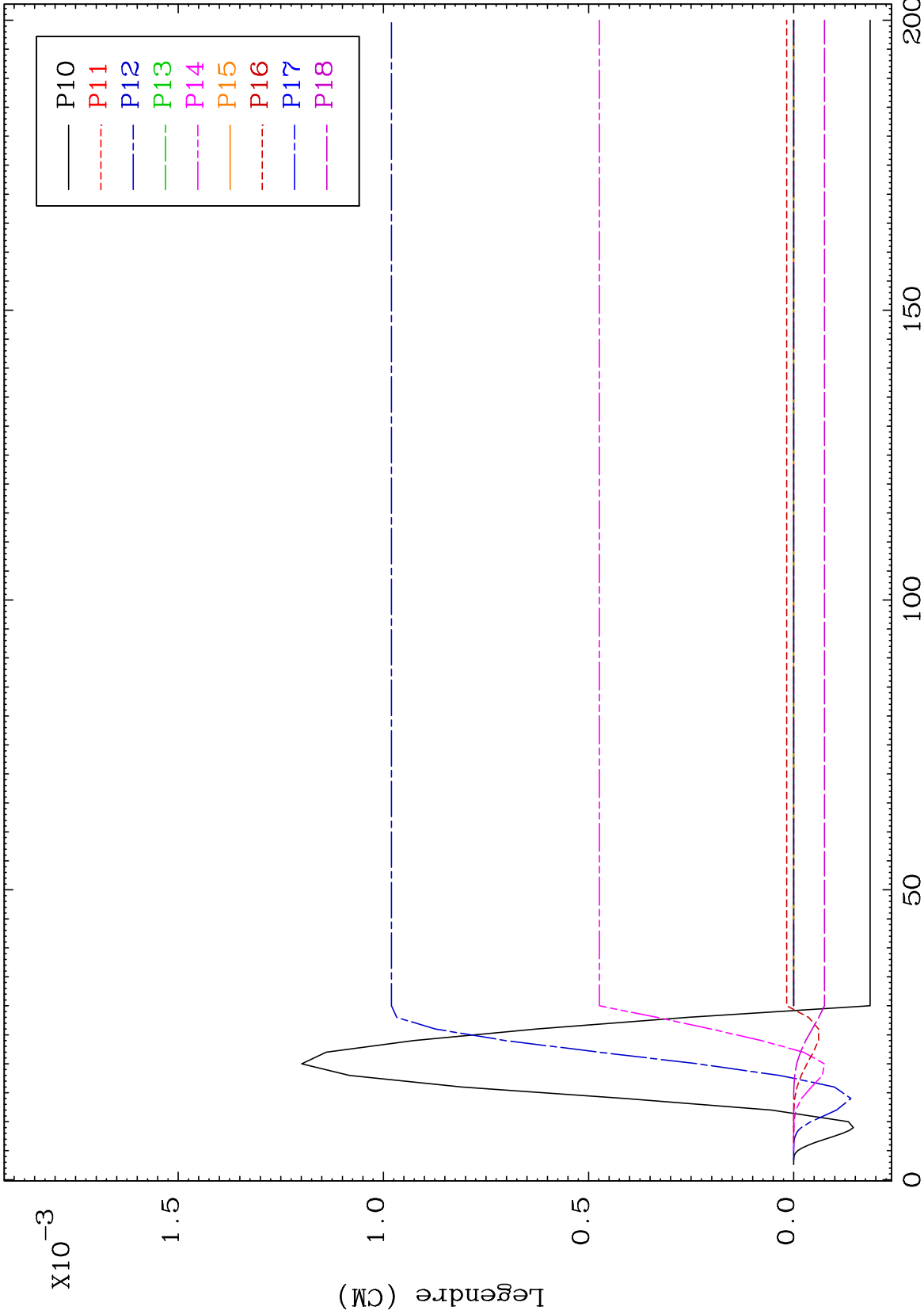
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



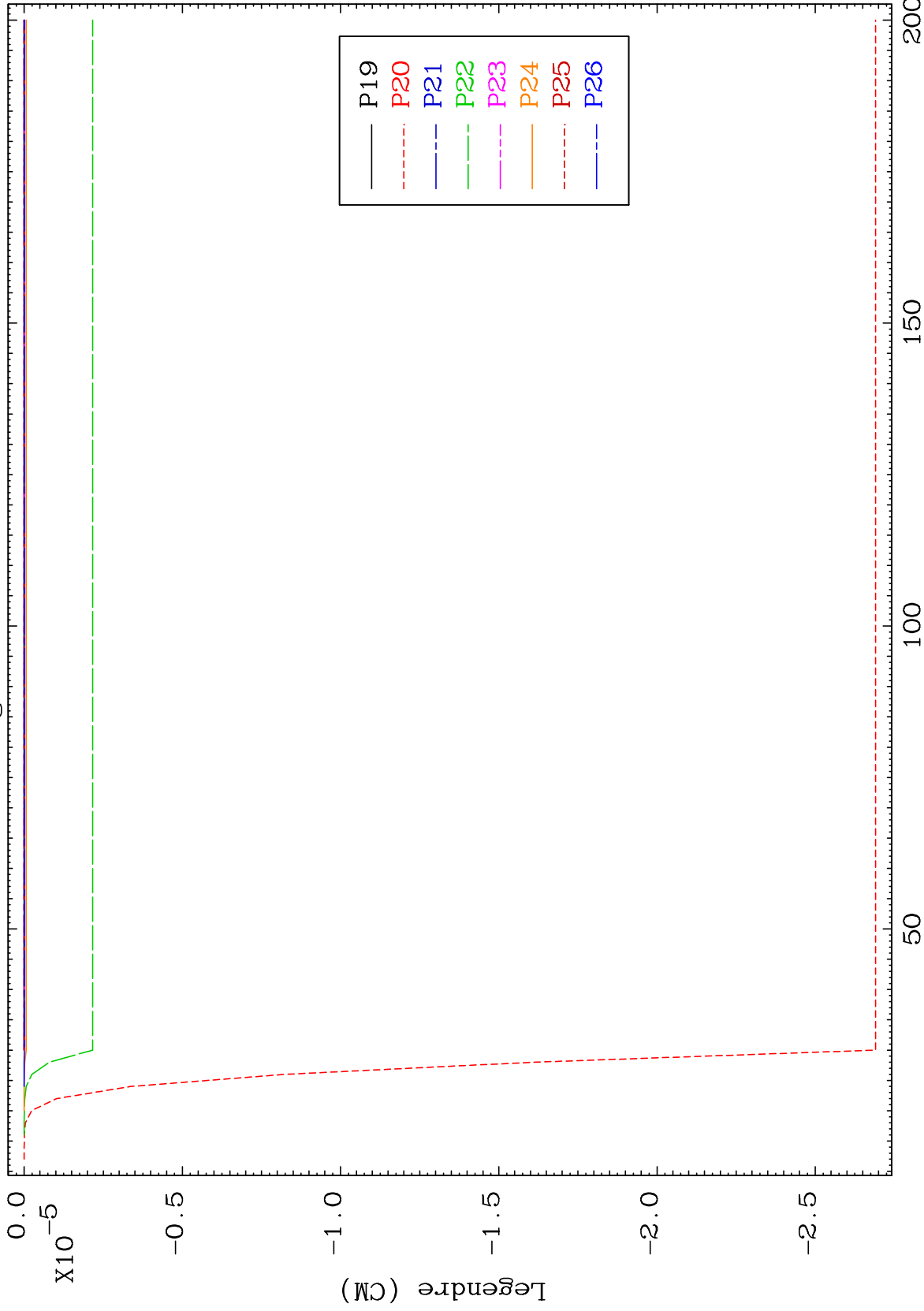
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83-Bi-209

MAT 8325

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

83-Bi-209



29

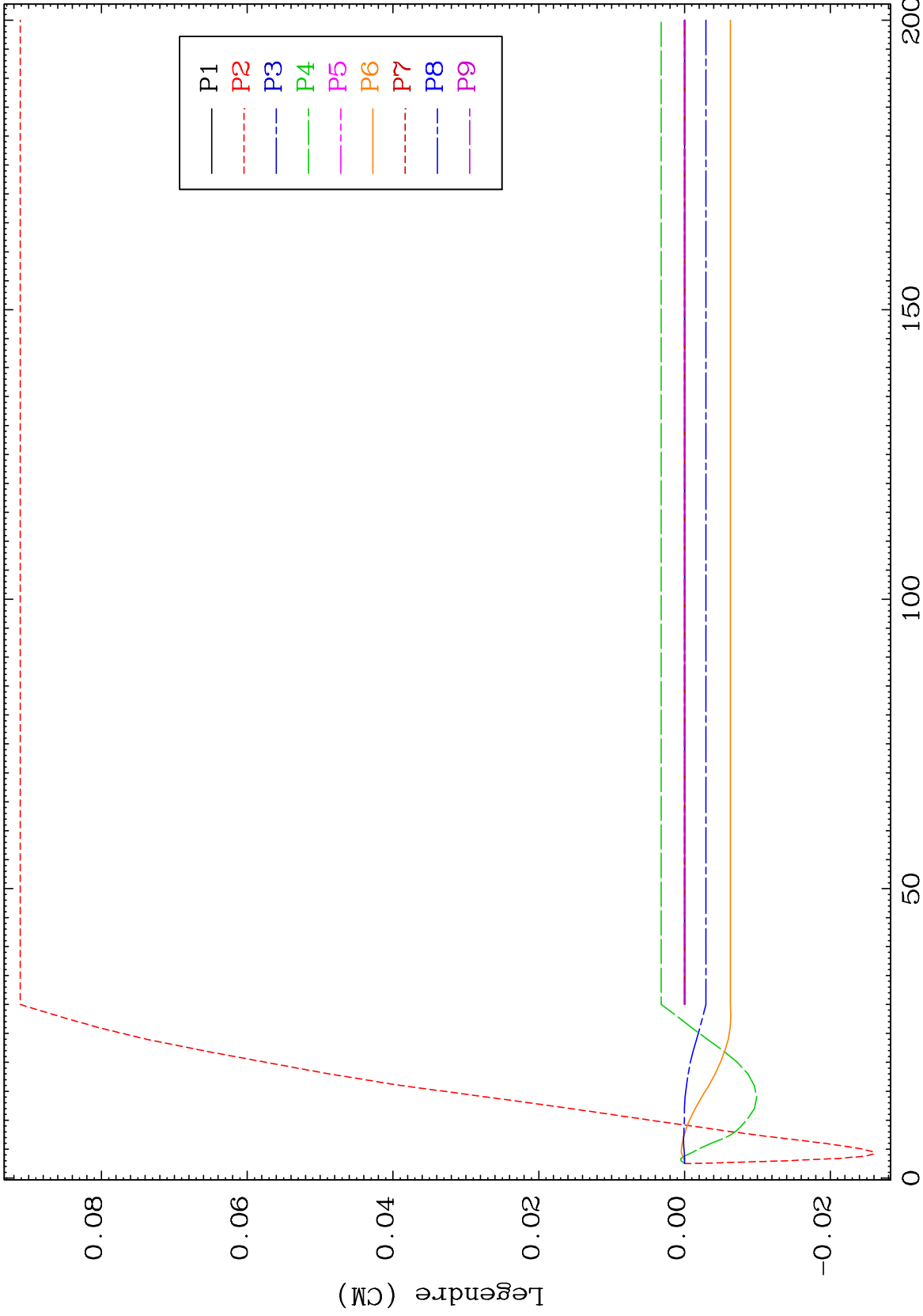
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



83-Bi-209

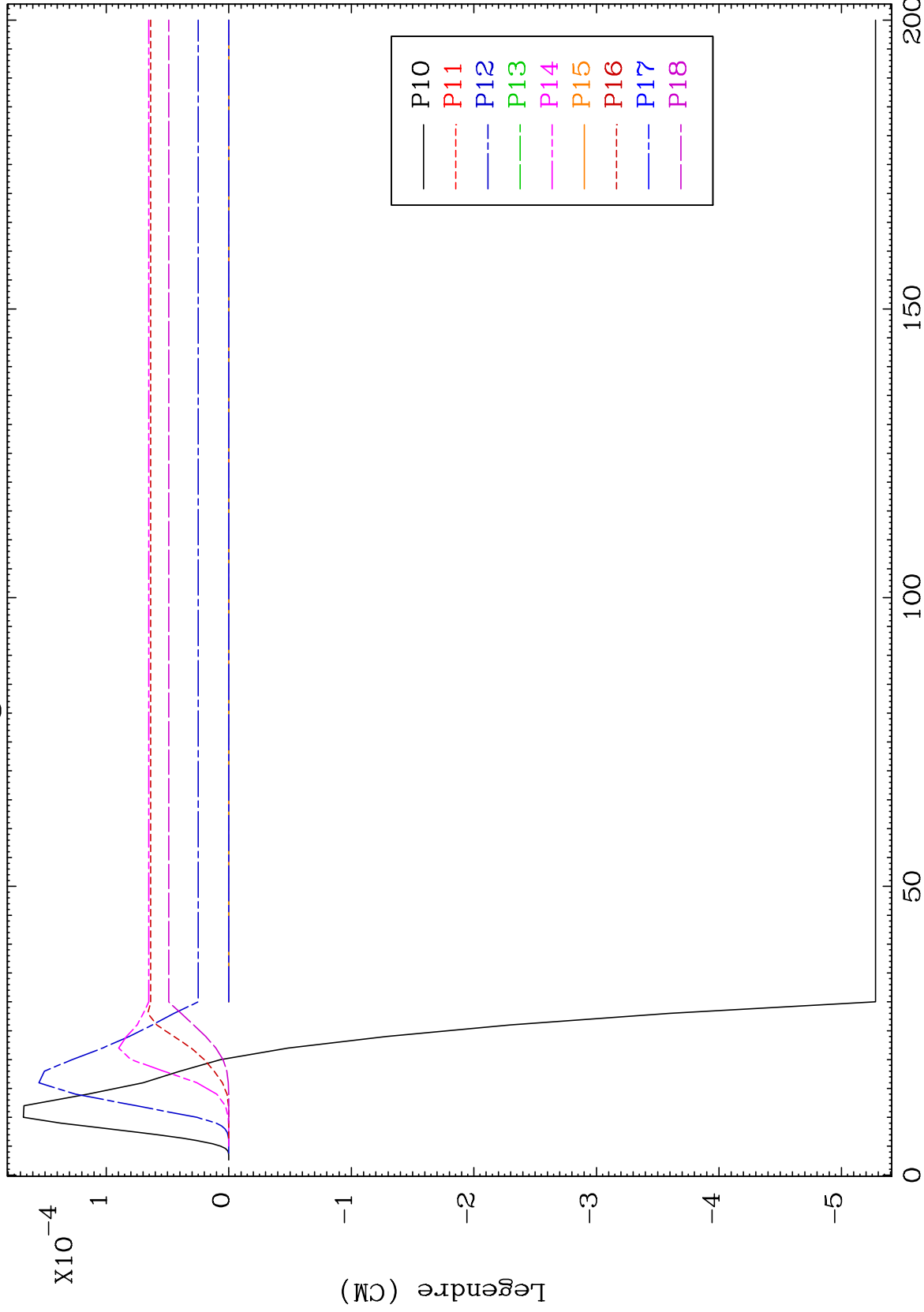
Incident Energy (MeV)

30

MAT 8325

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

83-Bi-209



31

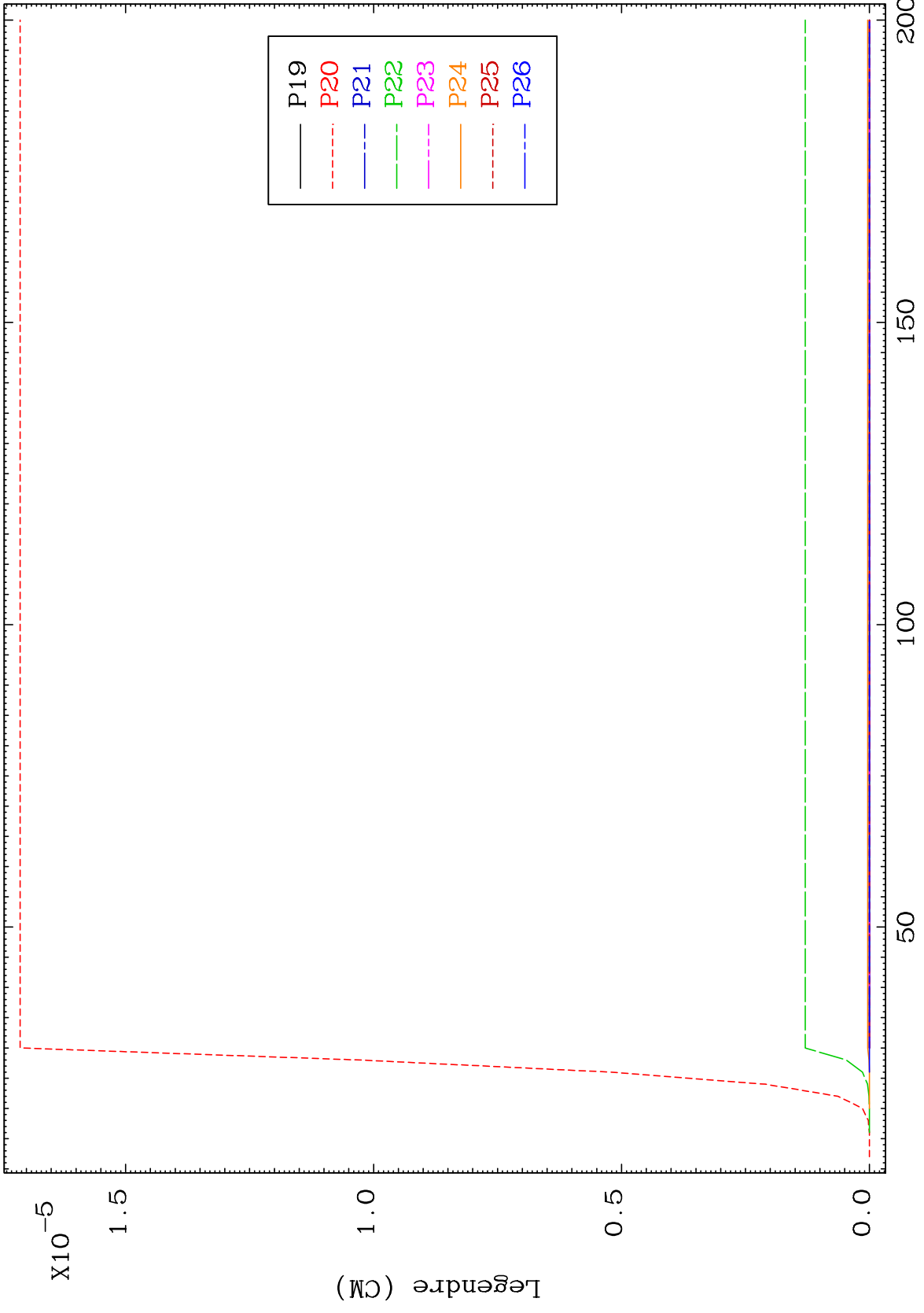
83-Bi-209



MAT 8325

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

83-Bi-209



32

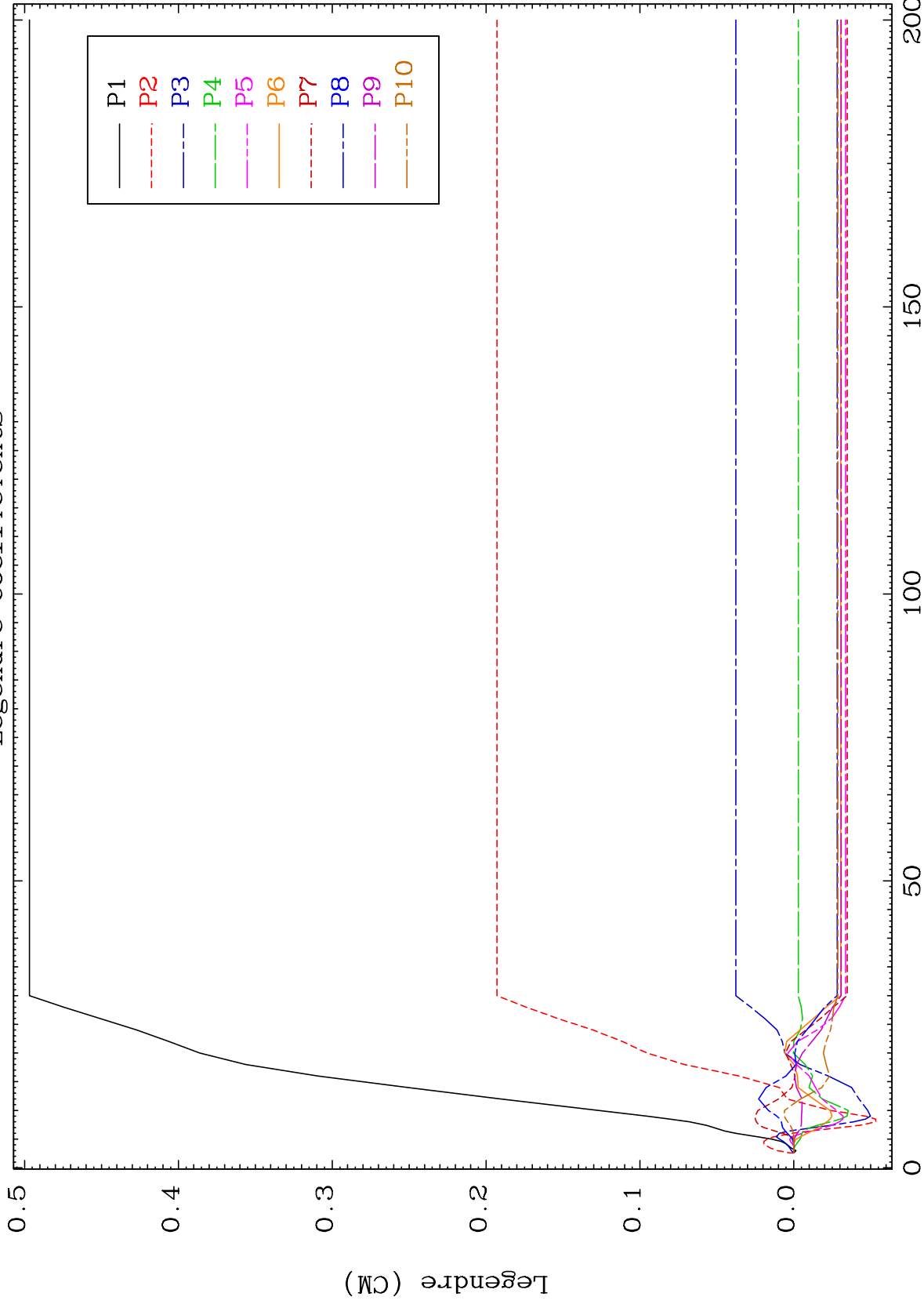
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



33

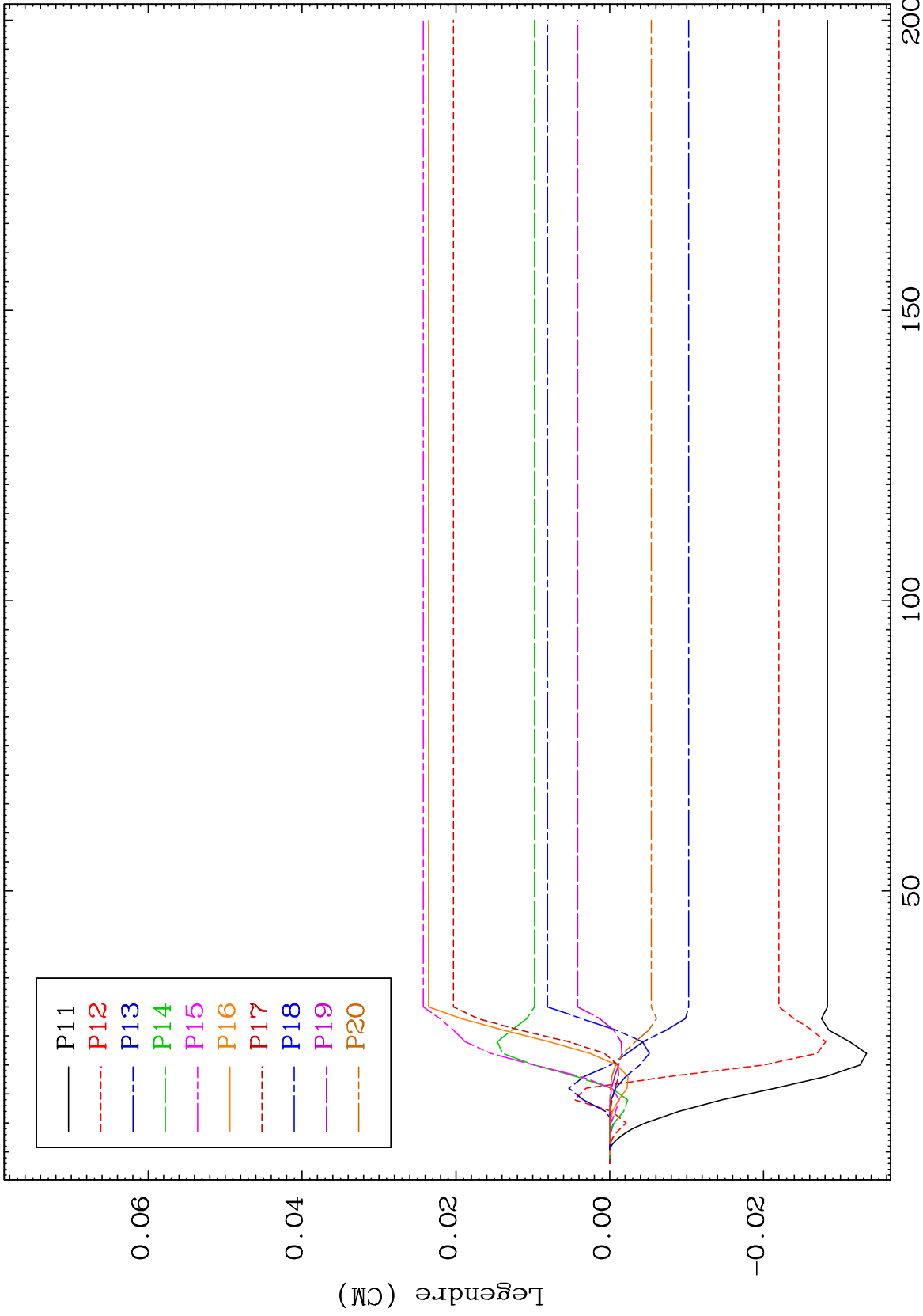
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

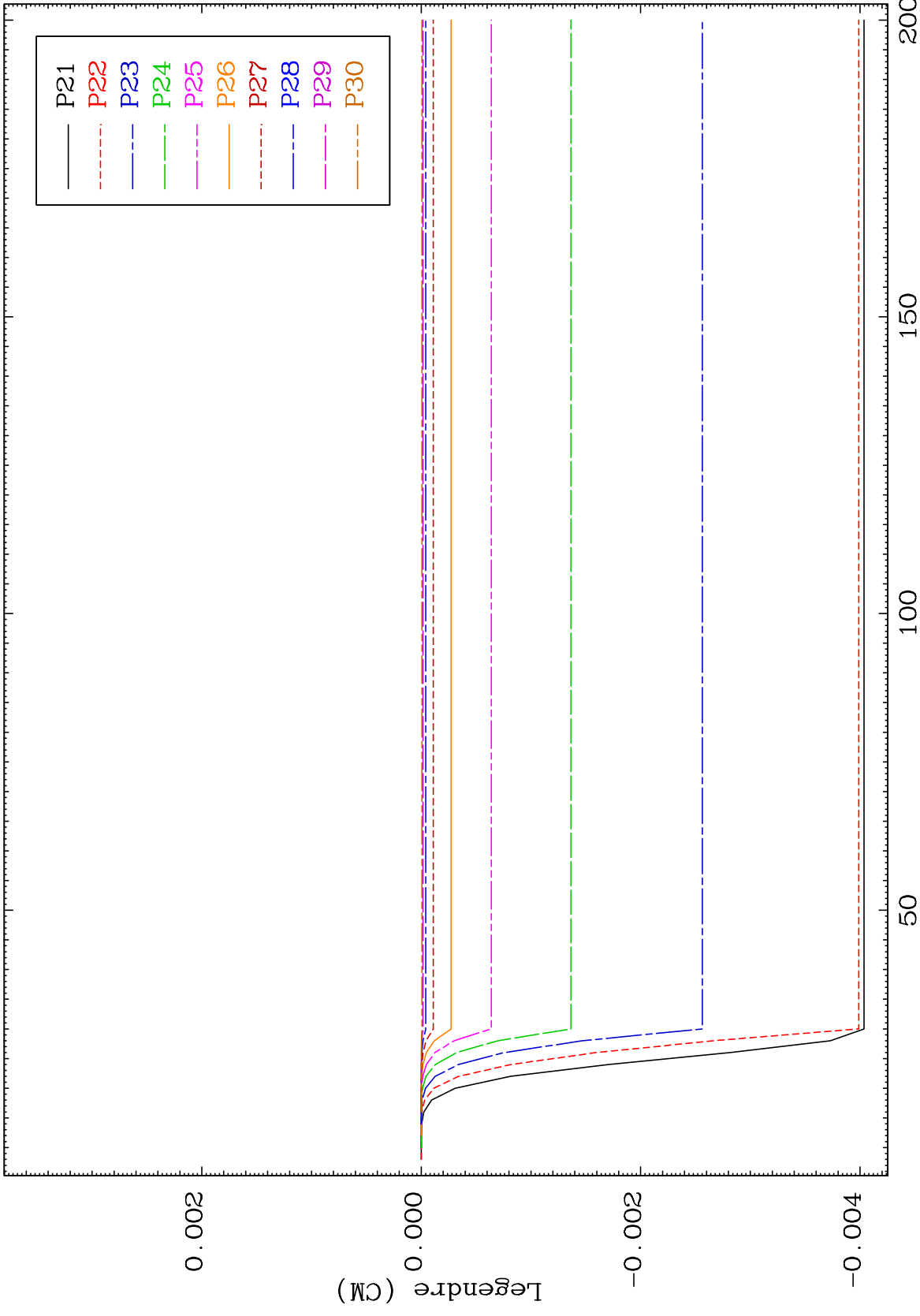
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MAT 8325

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

83-Bi-209



35

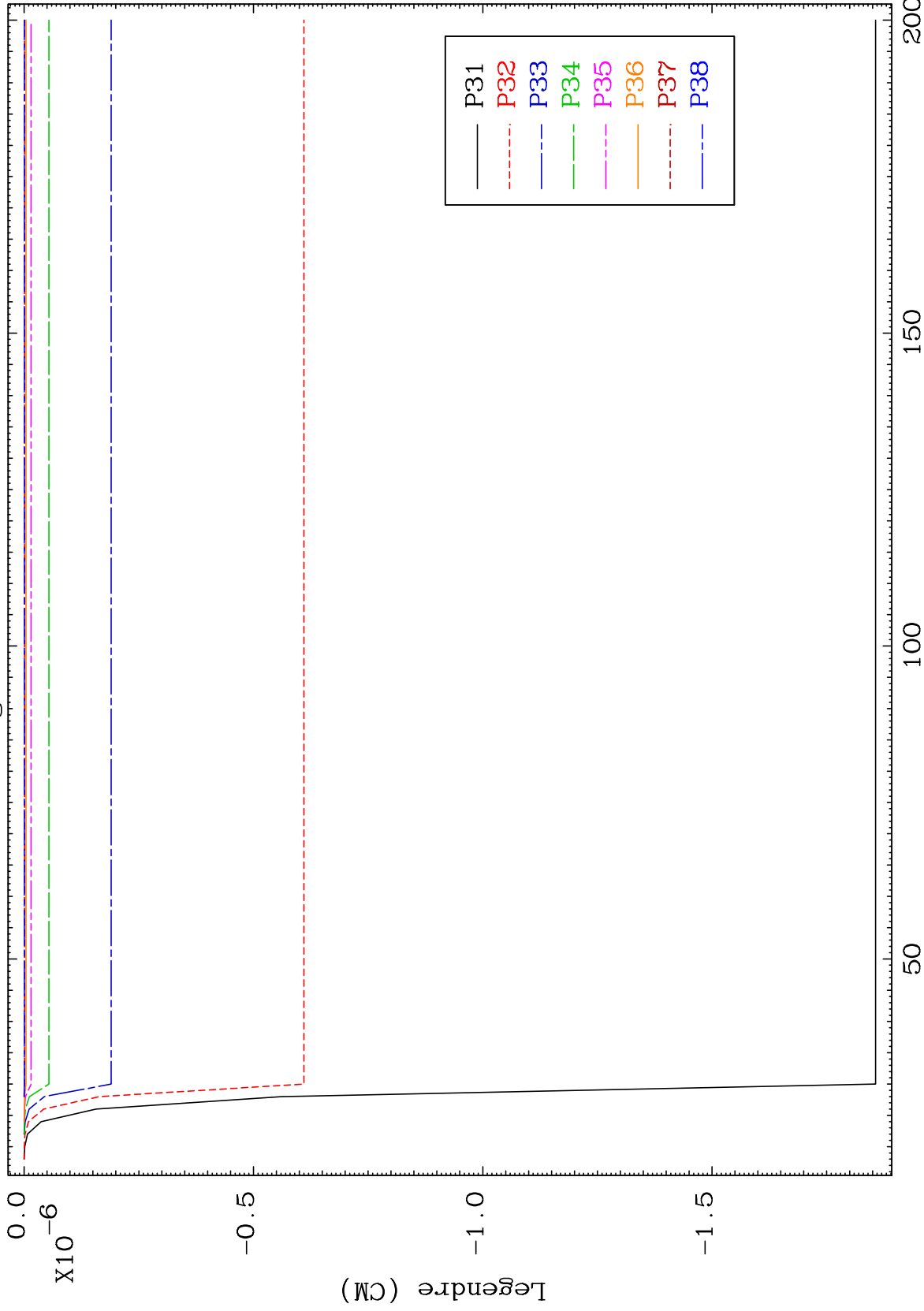
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



36

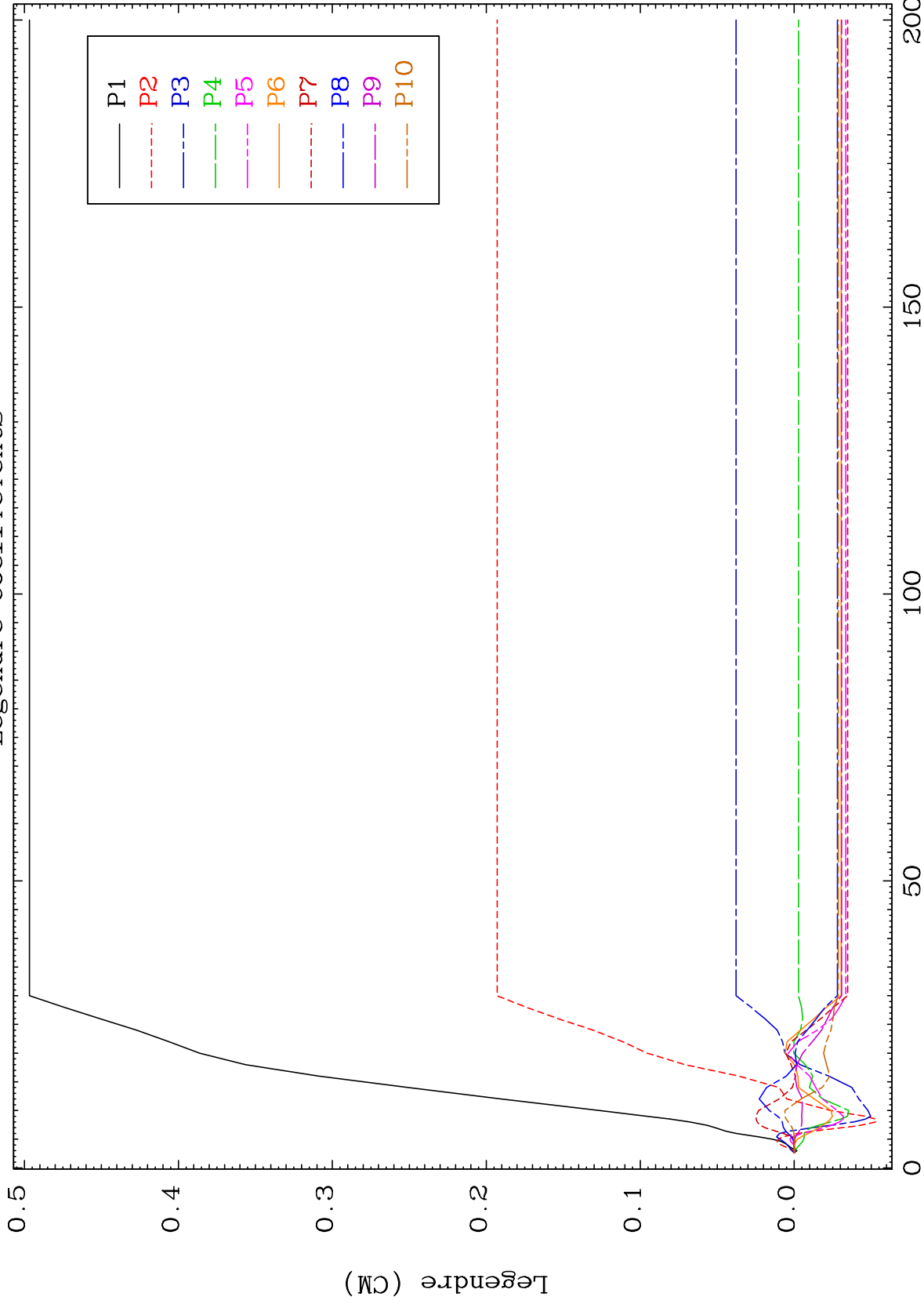
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



37

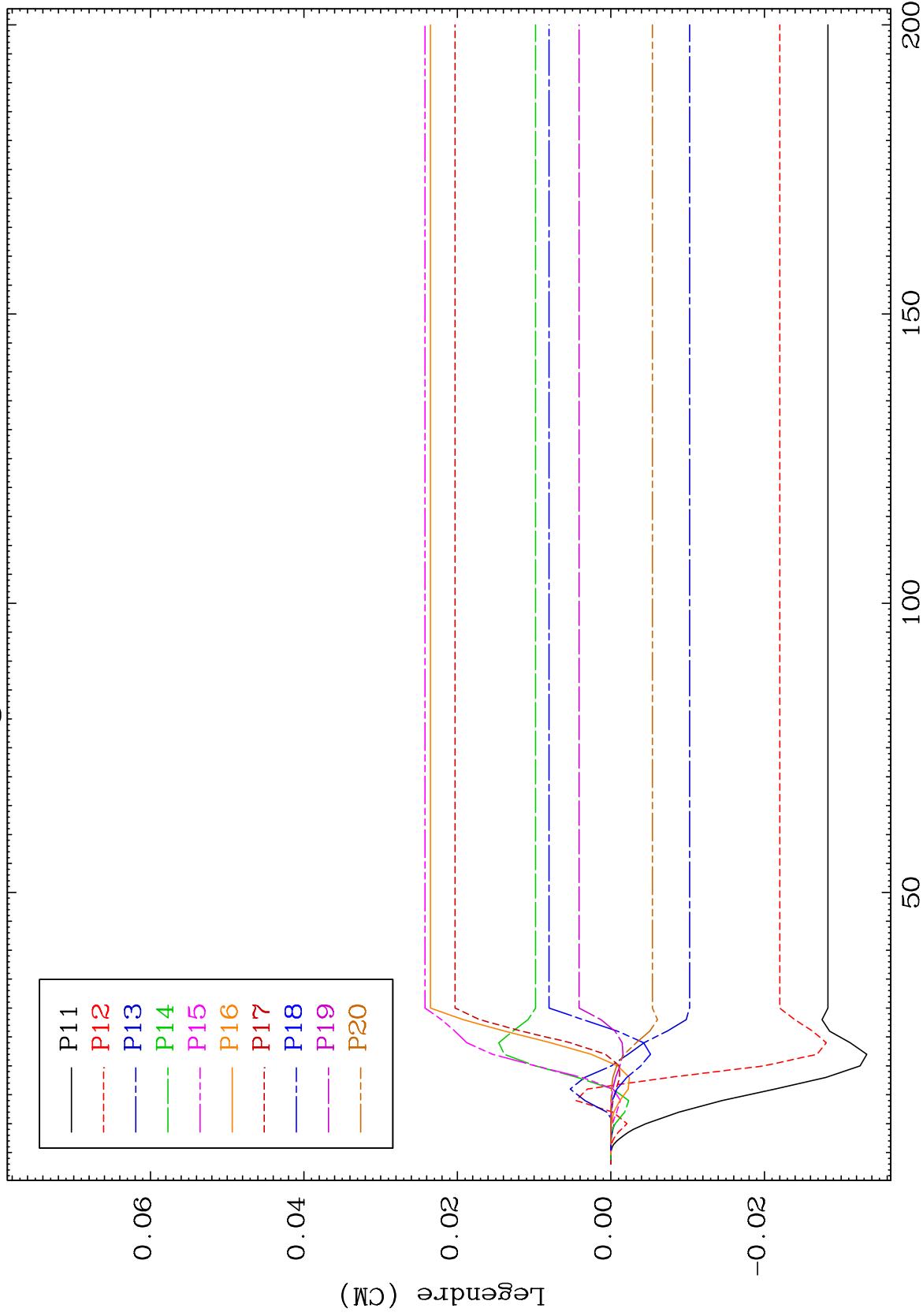
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



38

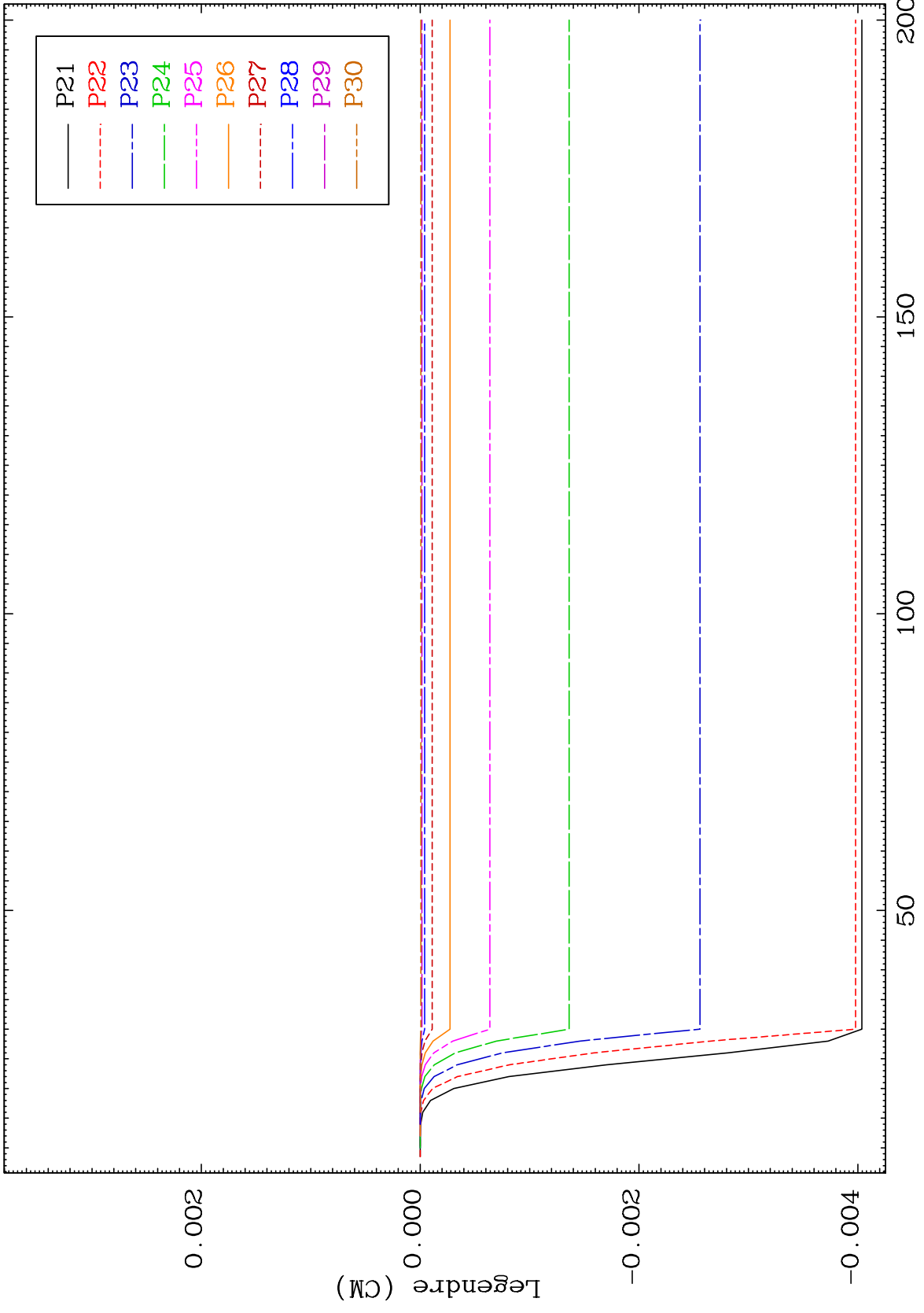
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



39

Incident Energy (MeV)

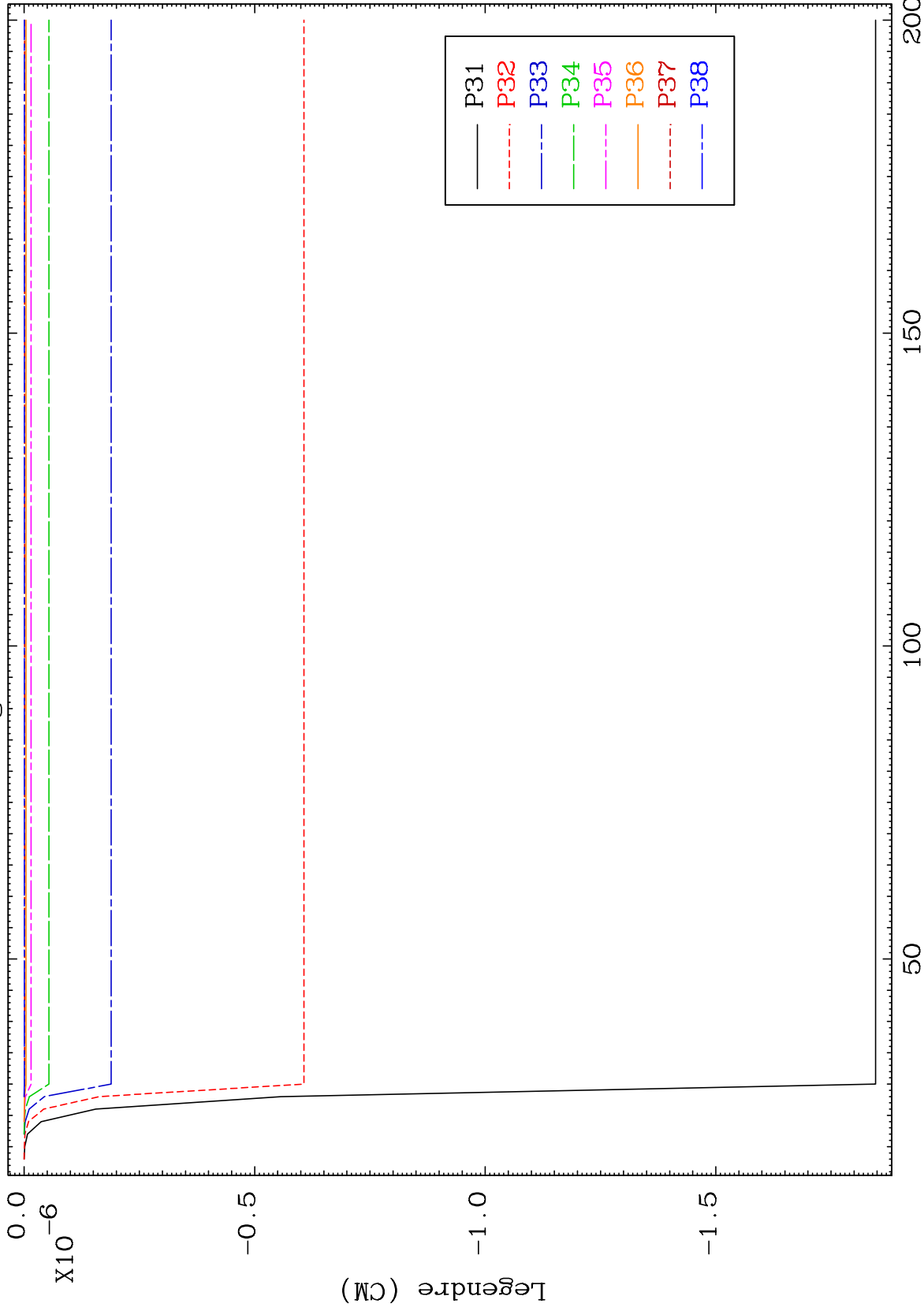
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MAT 8325

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

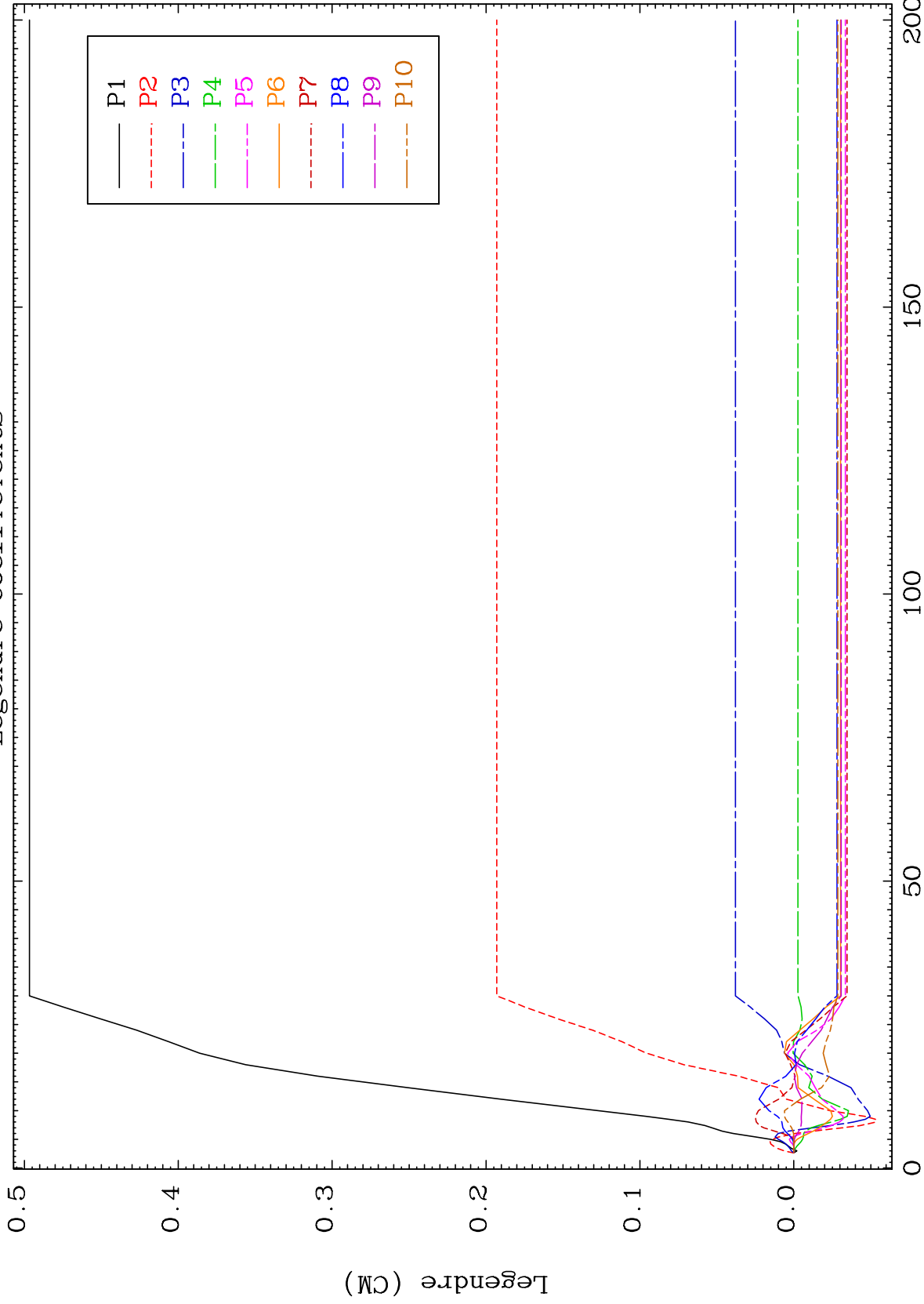
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MAT 8325

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

83-Bi-209



41

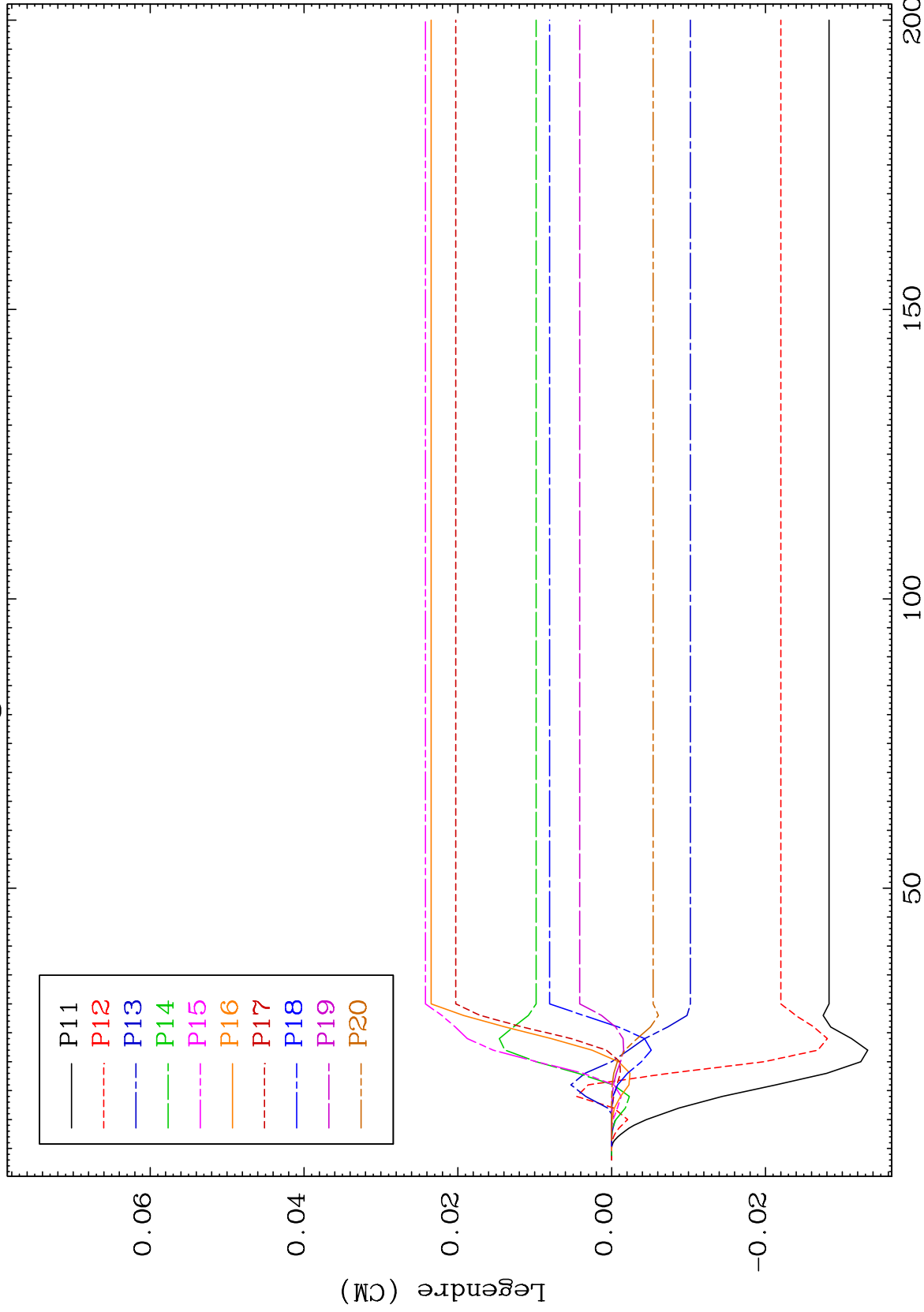
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



42

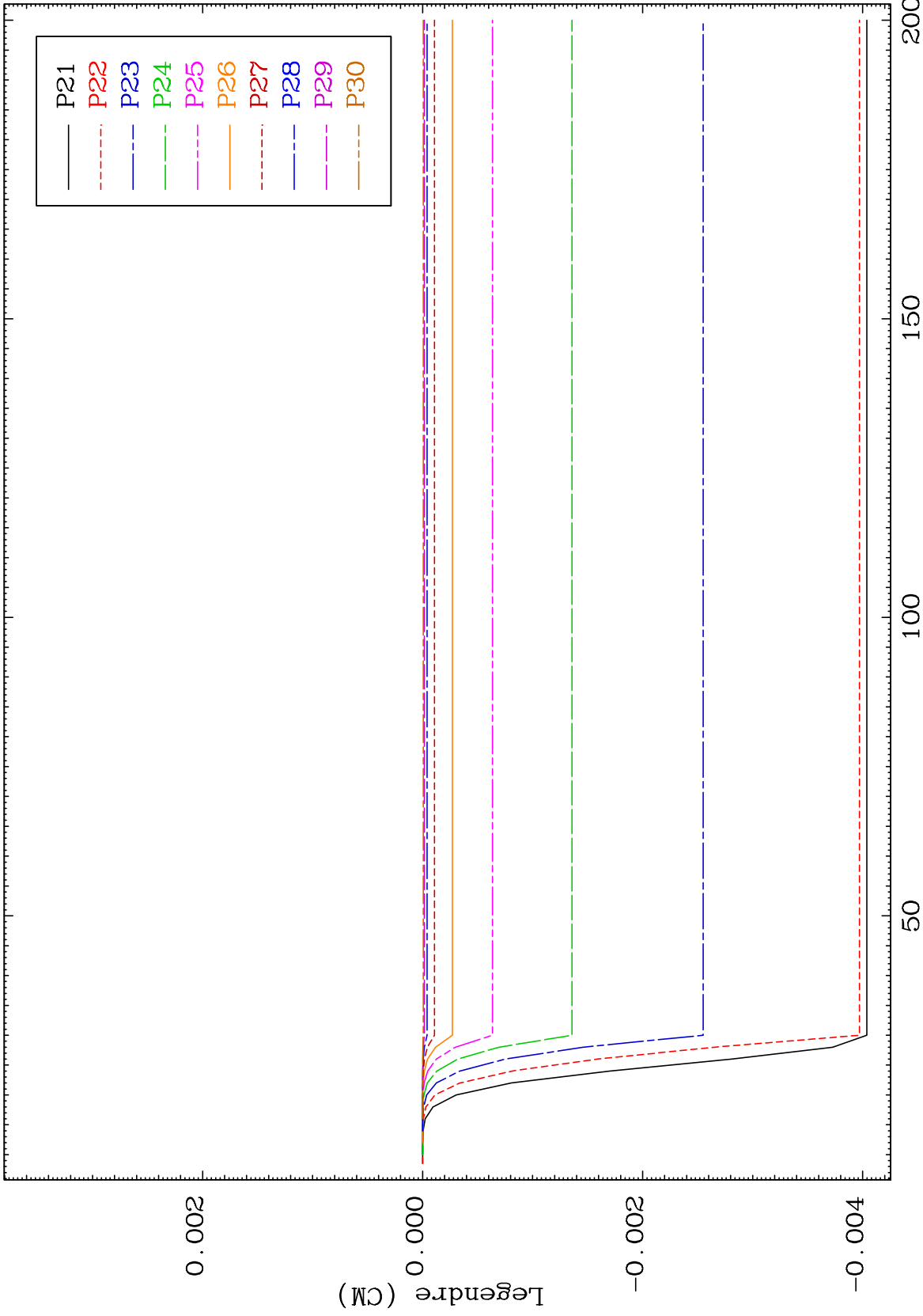
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



43

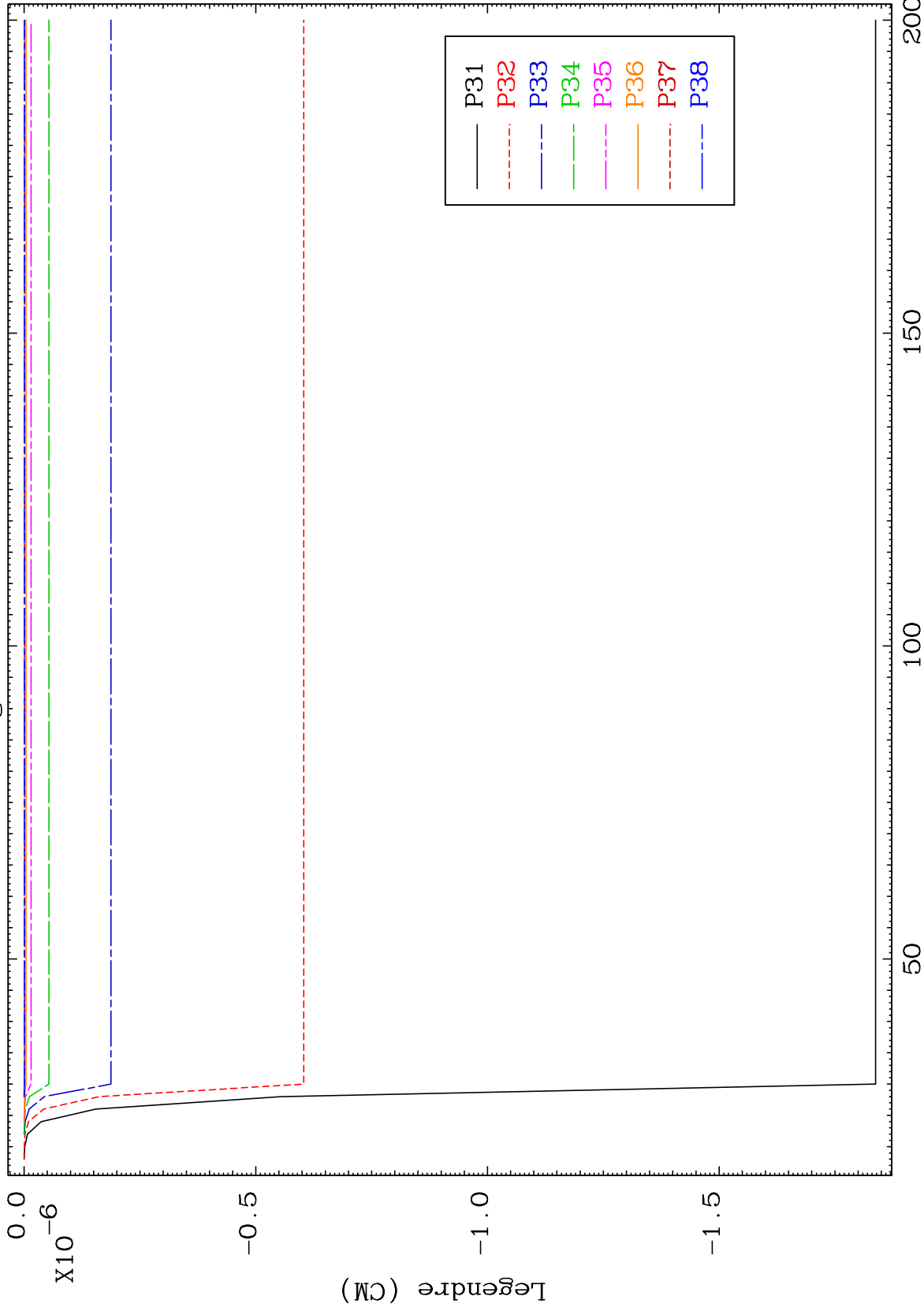
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



44

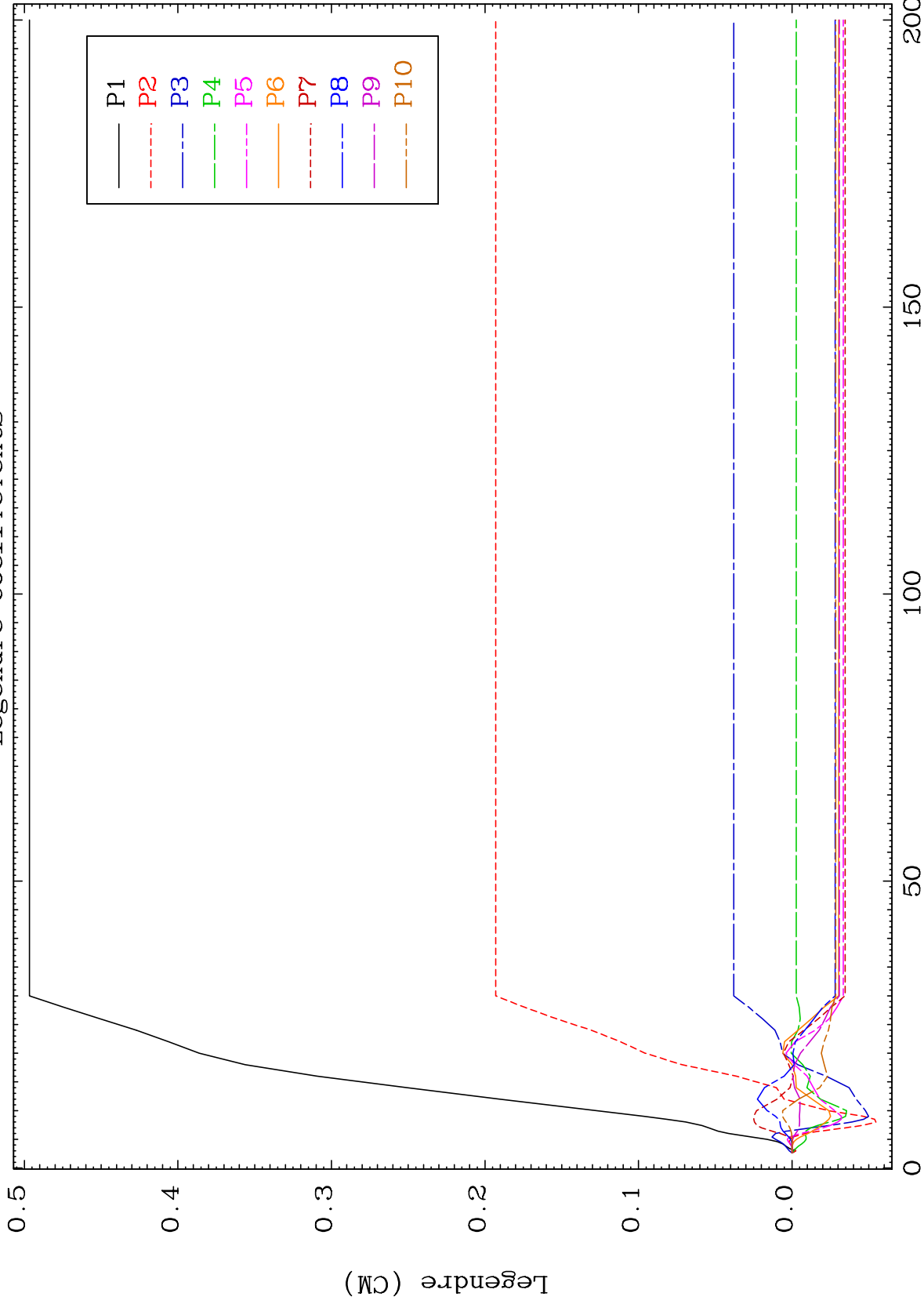
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



45

Incident Energy (MeV)

50

100

150

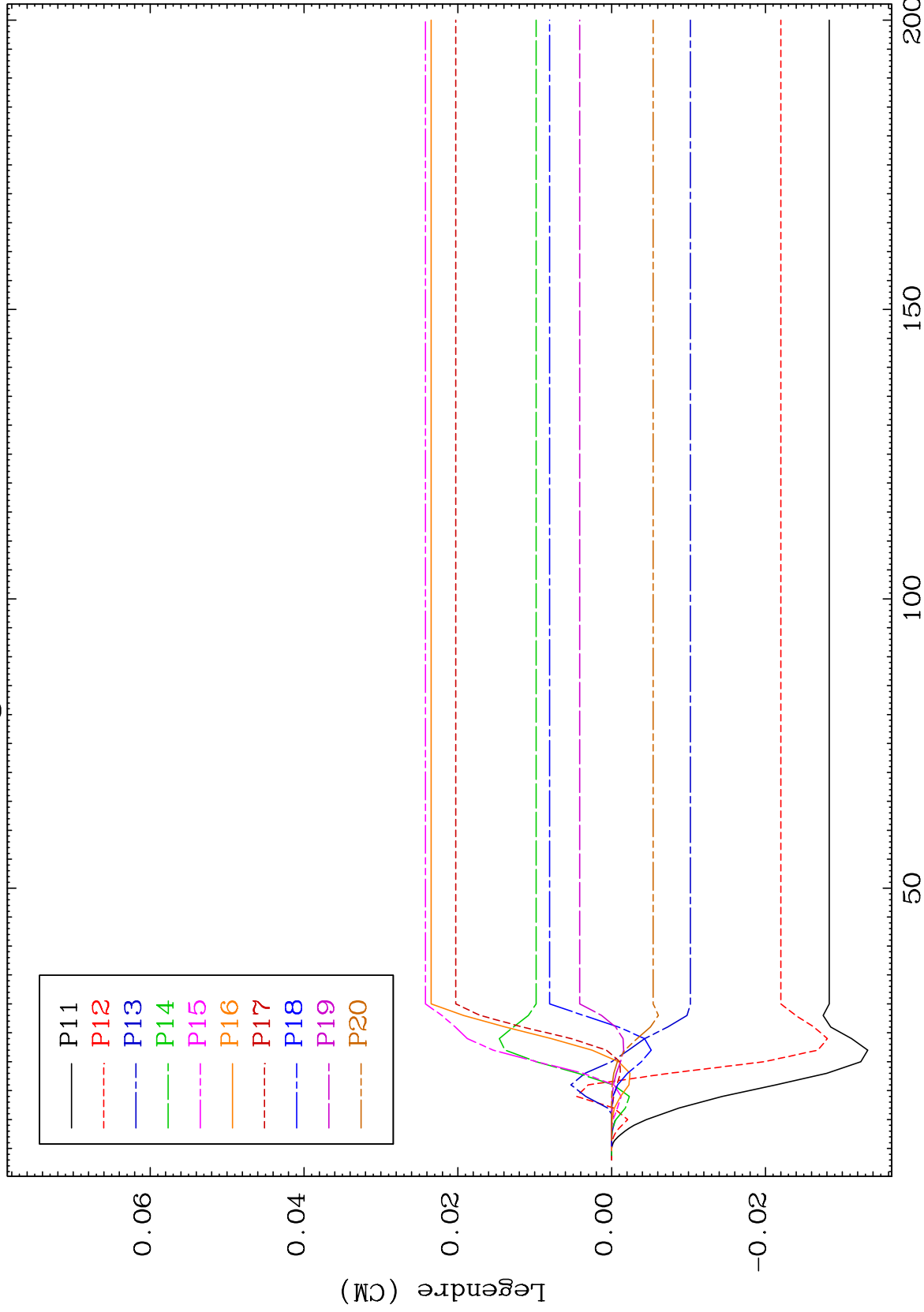
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83-Bi-209

MAT 8325

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

83-Bi-209



46

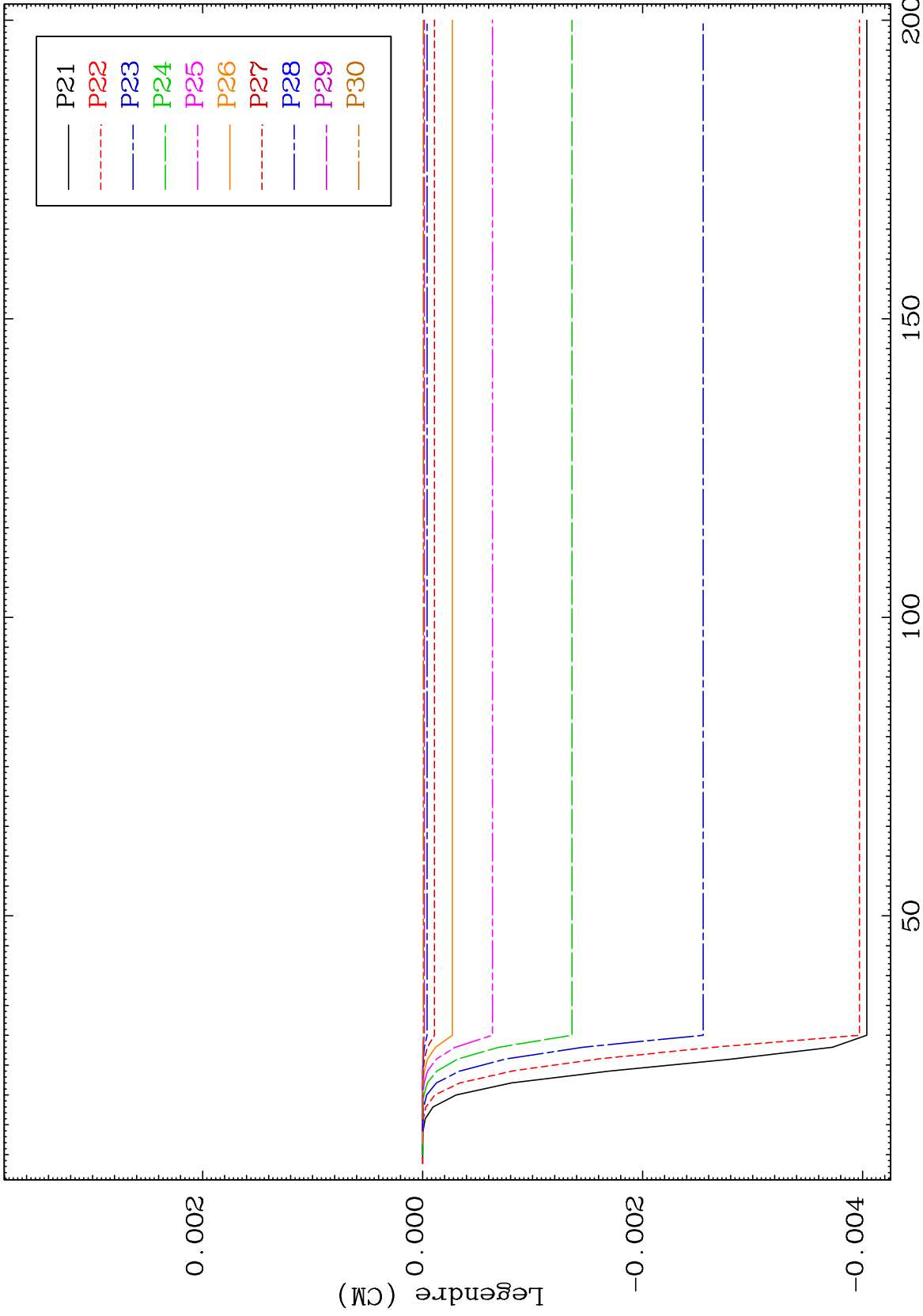
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



47

Incident Energy (MeV)

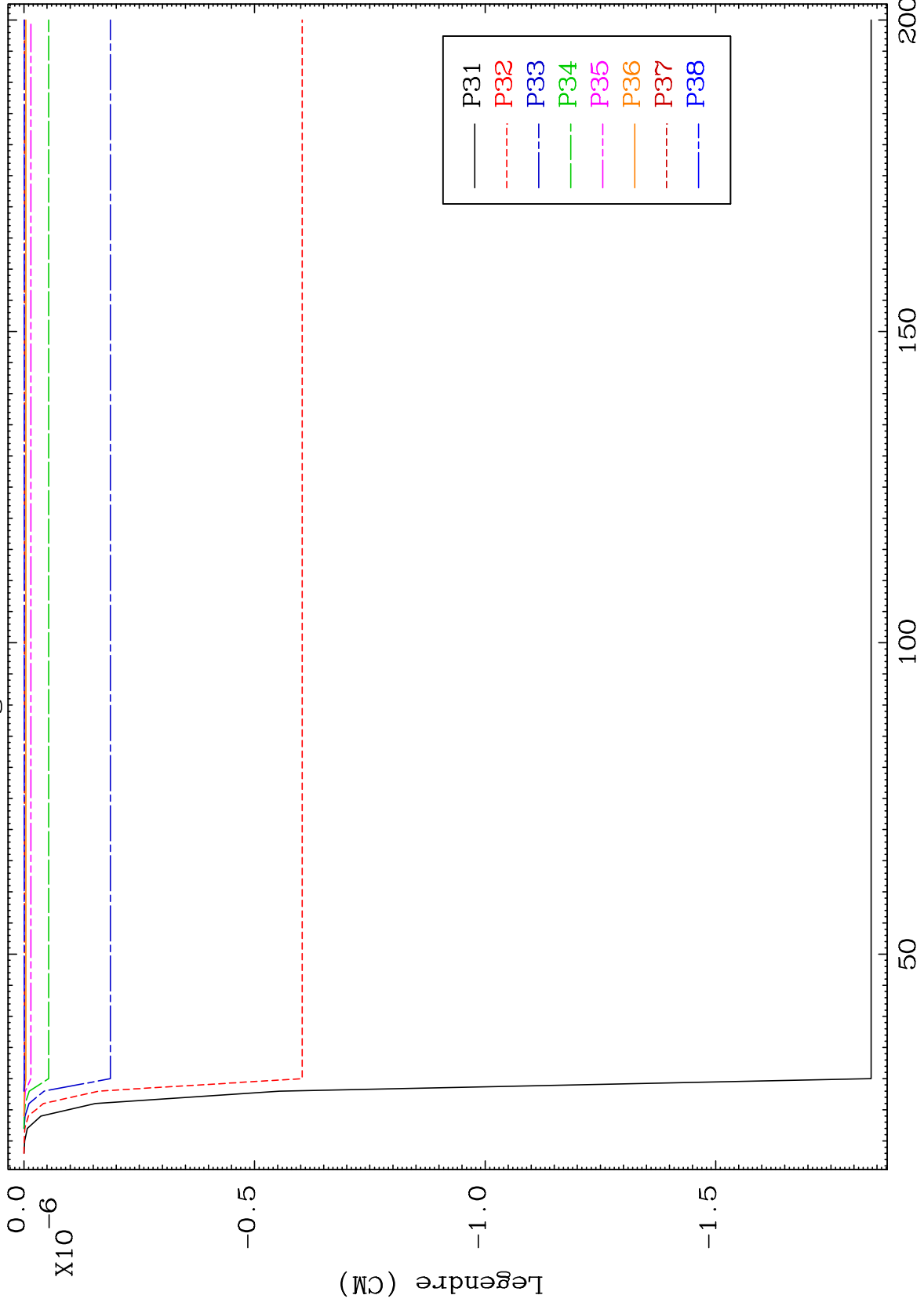
83-Bi-209



MAT 8325

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

83-Bi-209



48

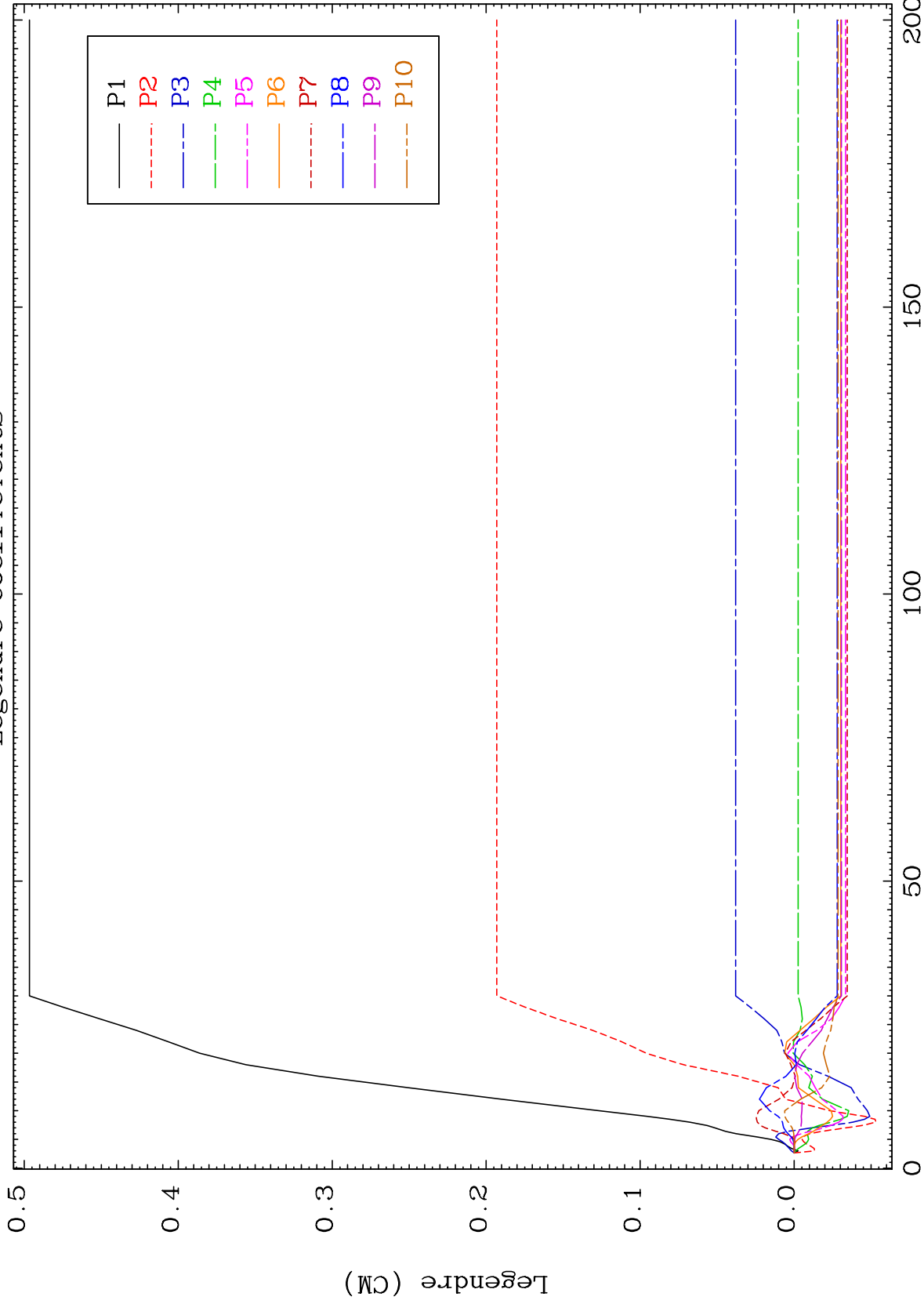
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



49

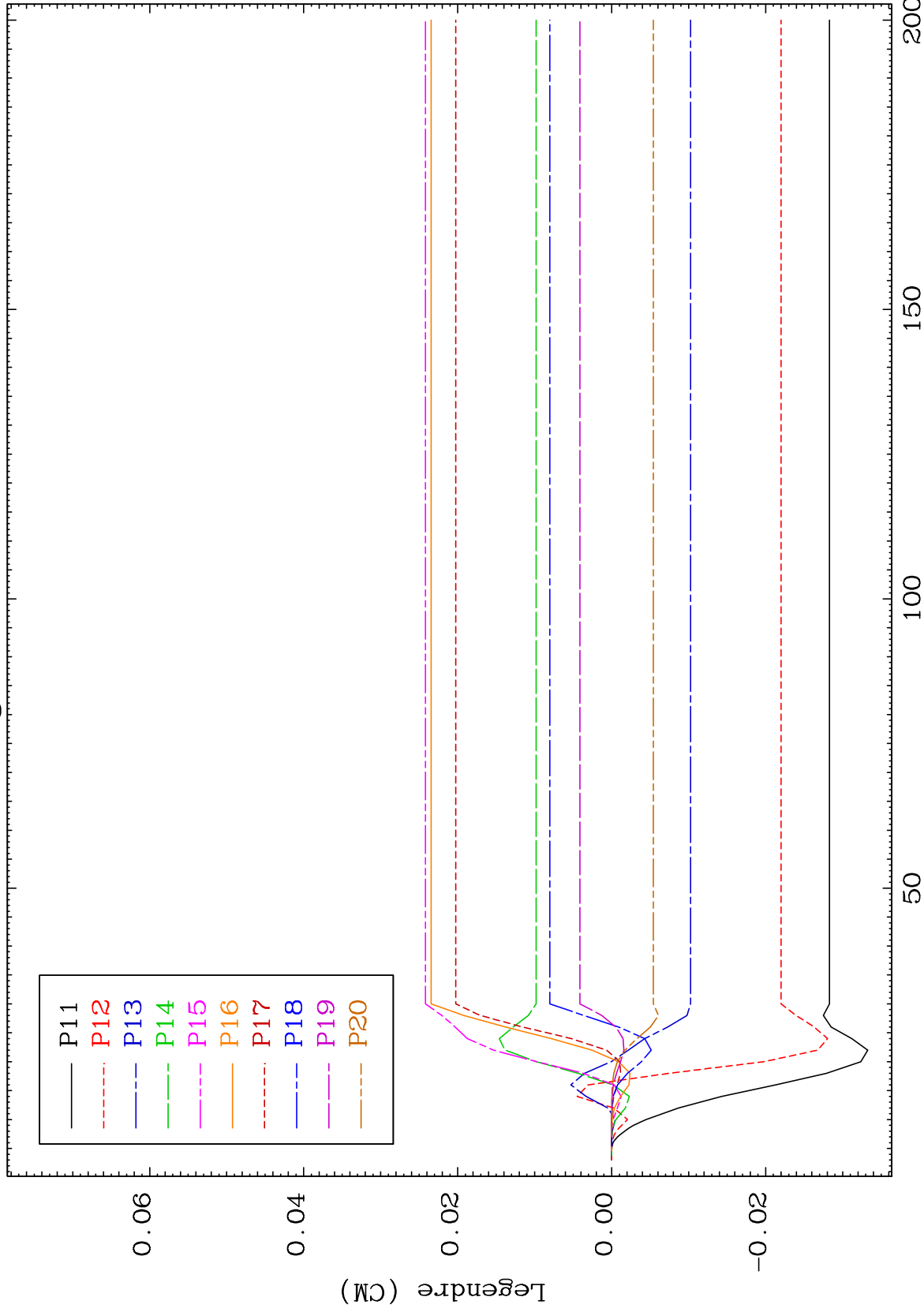
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



50

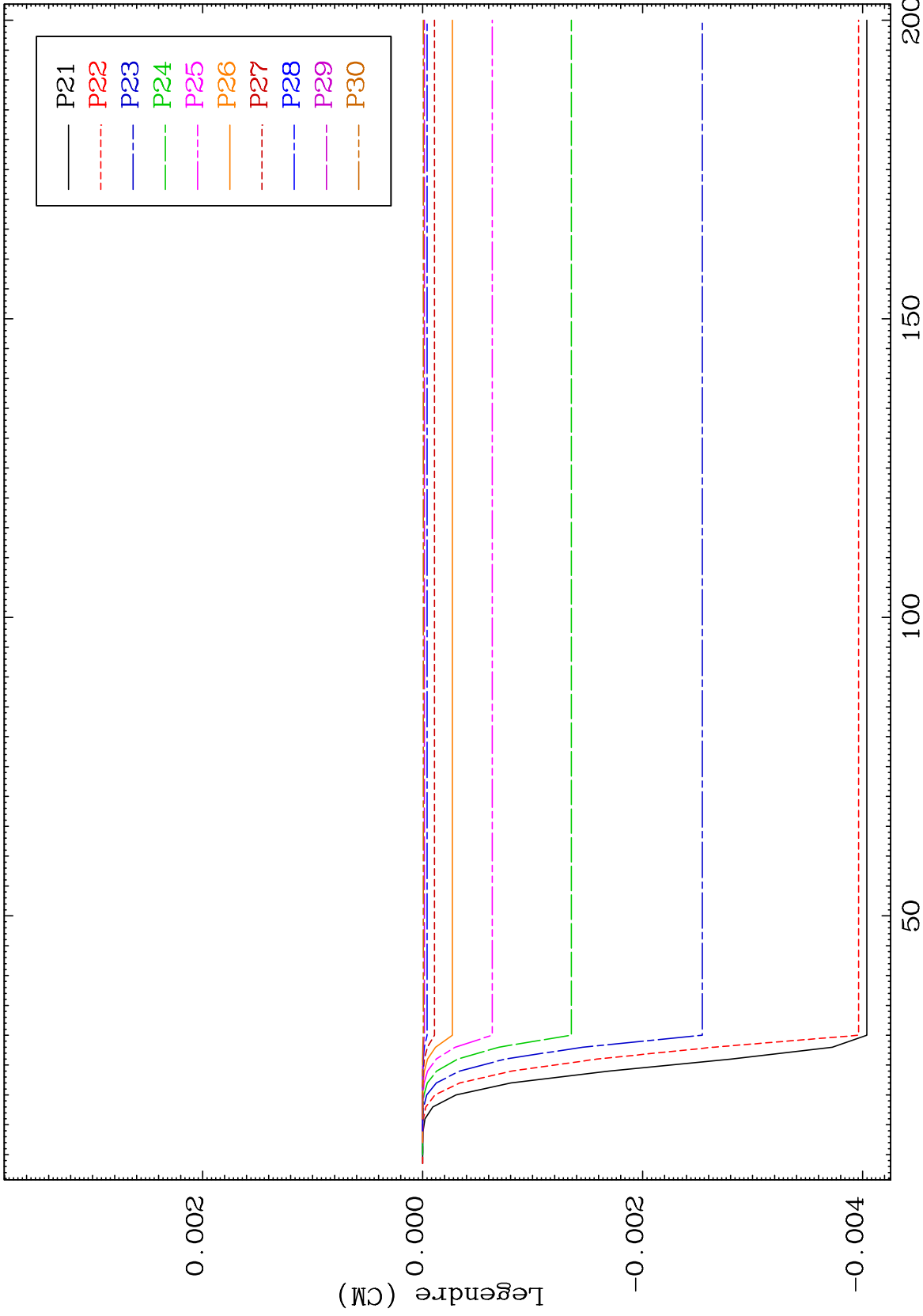
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



51

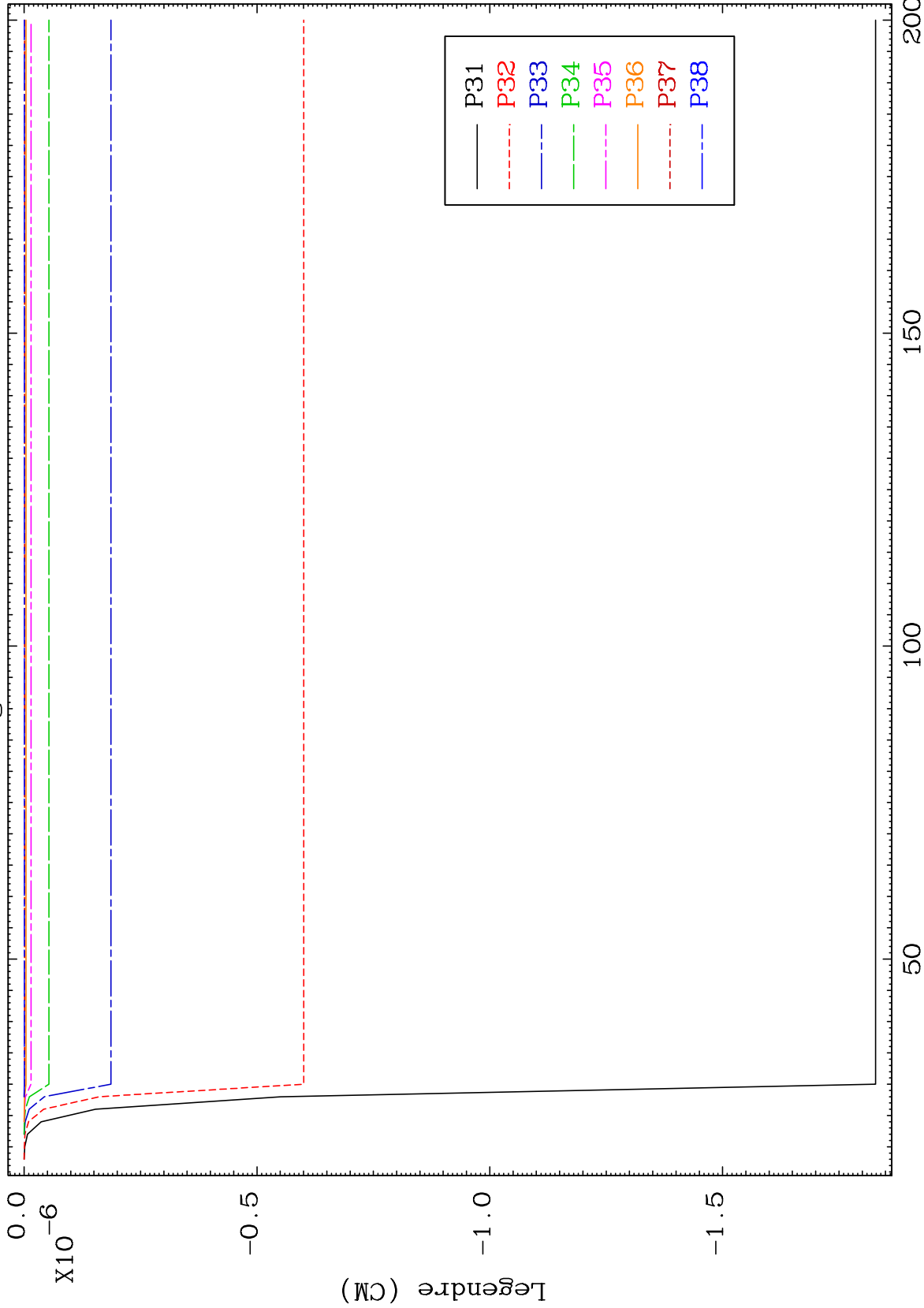
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



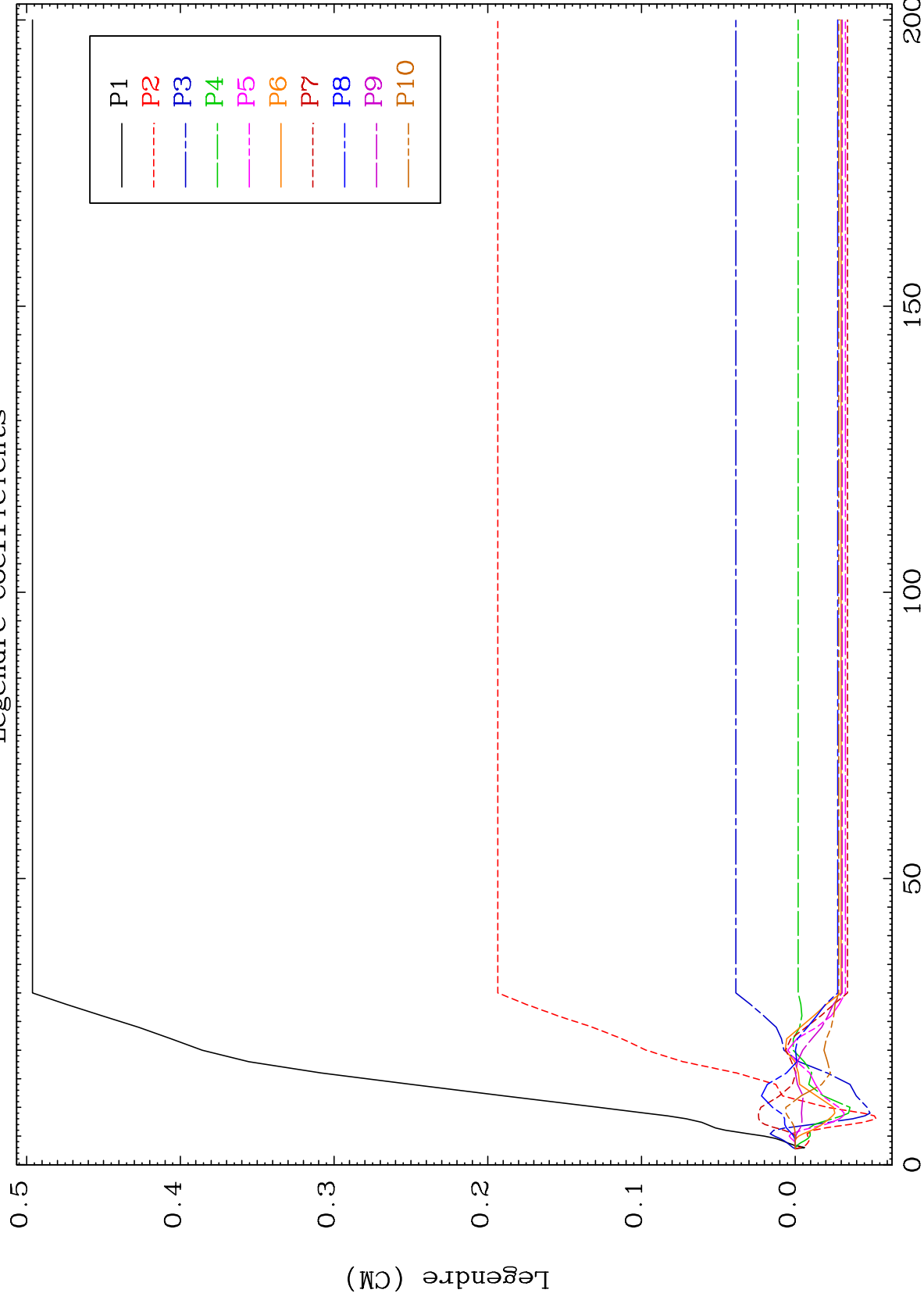
52

83-Bi-209

MAT 8325

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

83-Bi-209



53

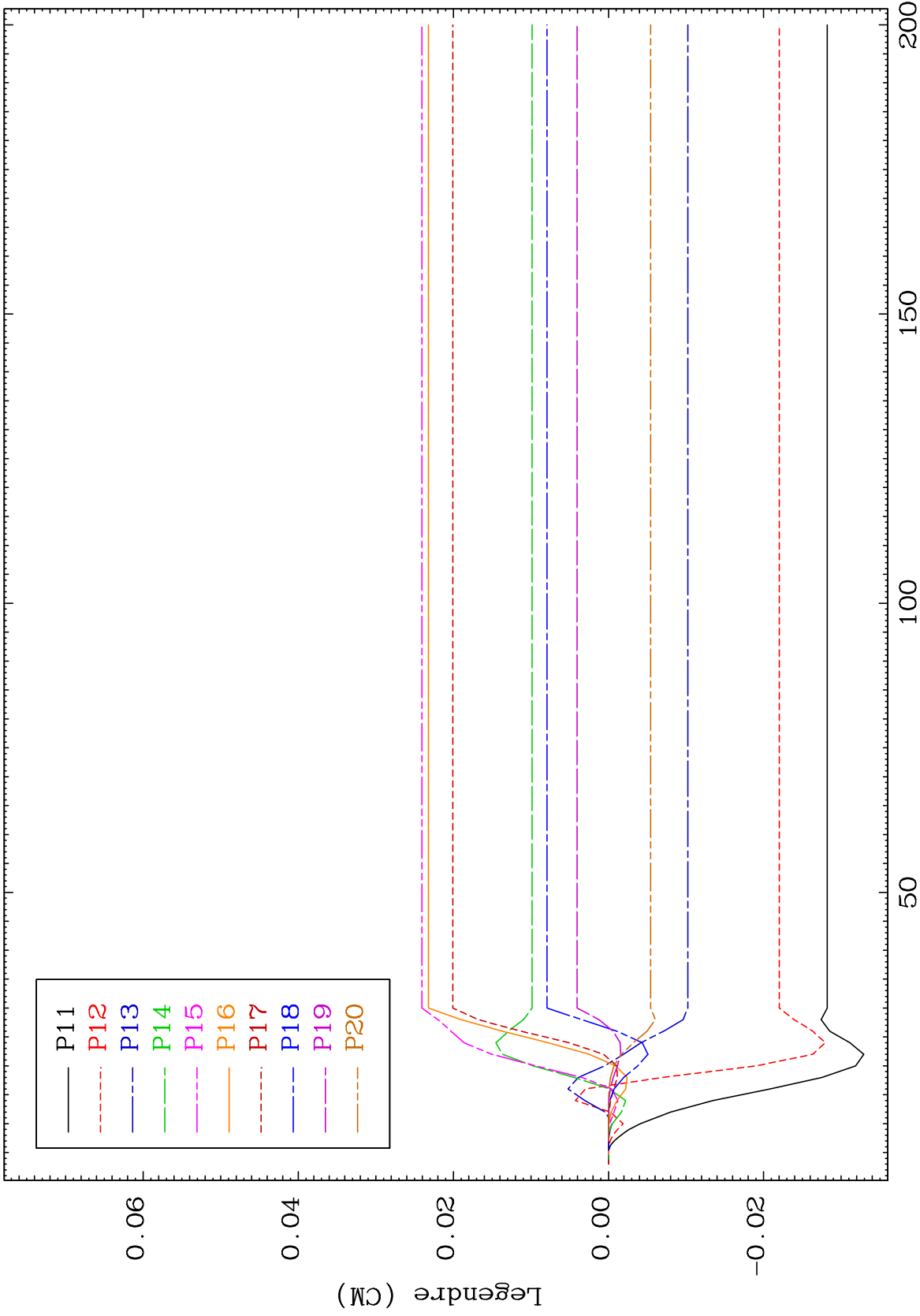
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



54

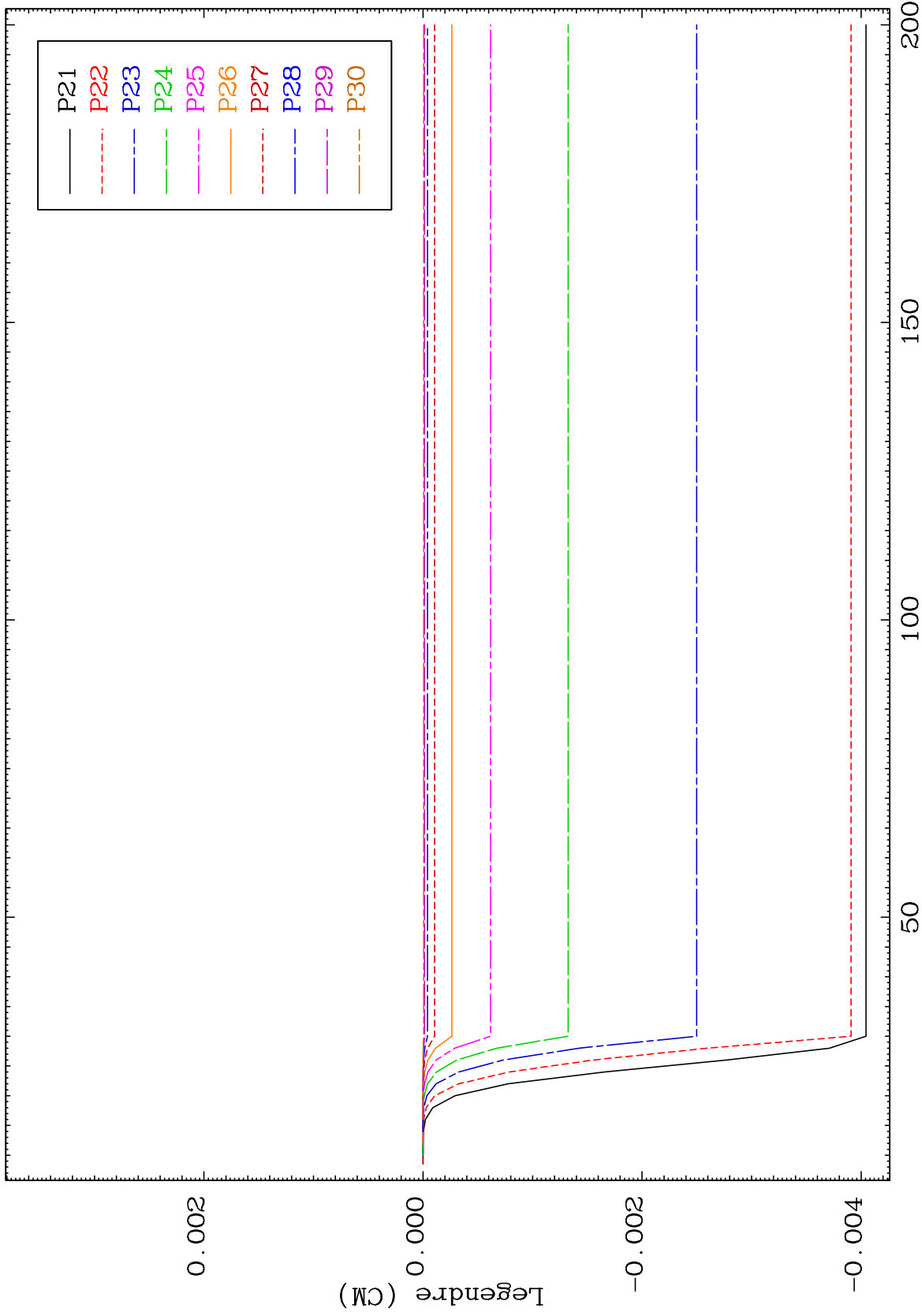
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



55

Incident Energy (MeV)

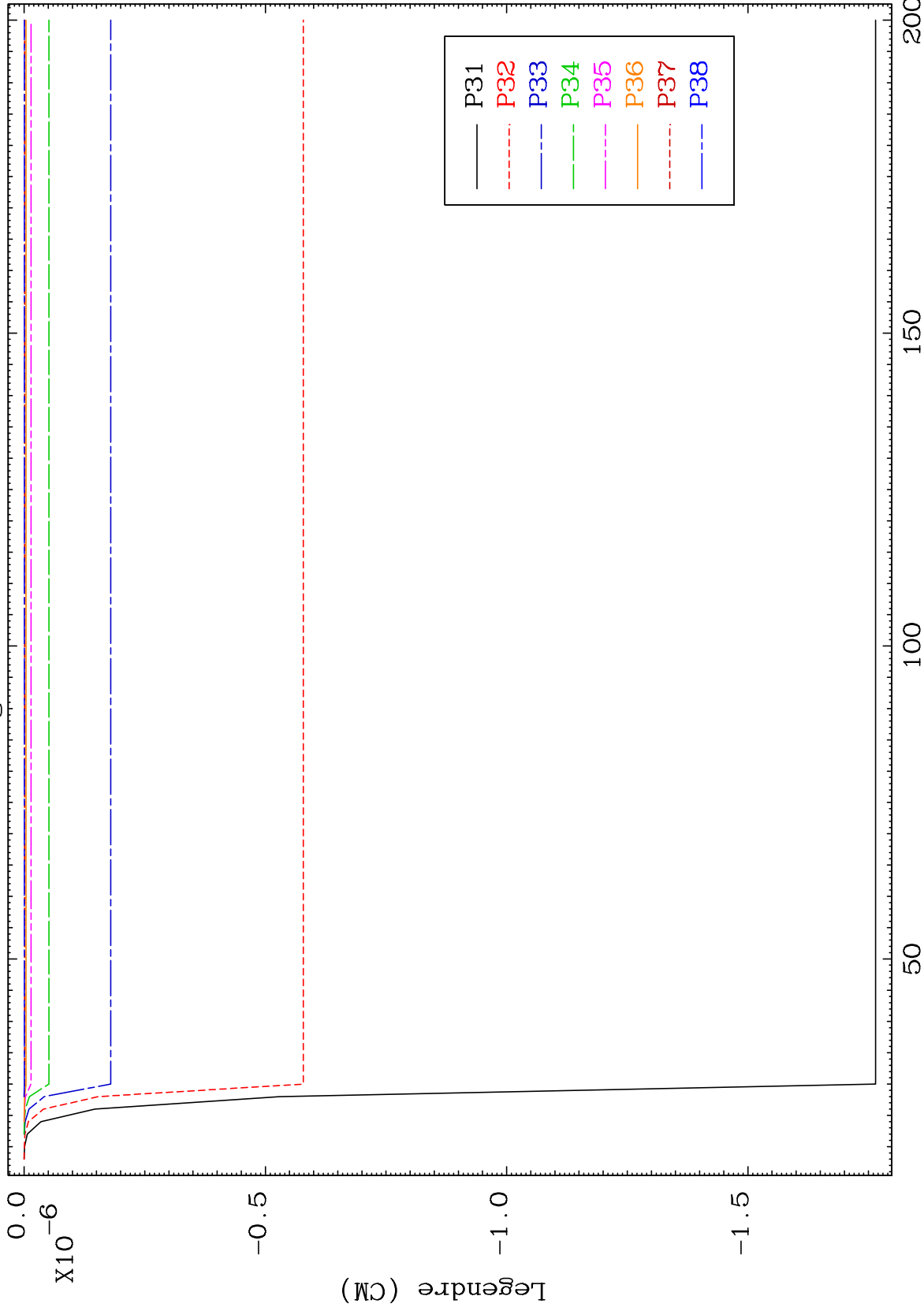
83-Bi-209



MAT 8325

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

83-Bi-209



83-Bi-209

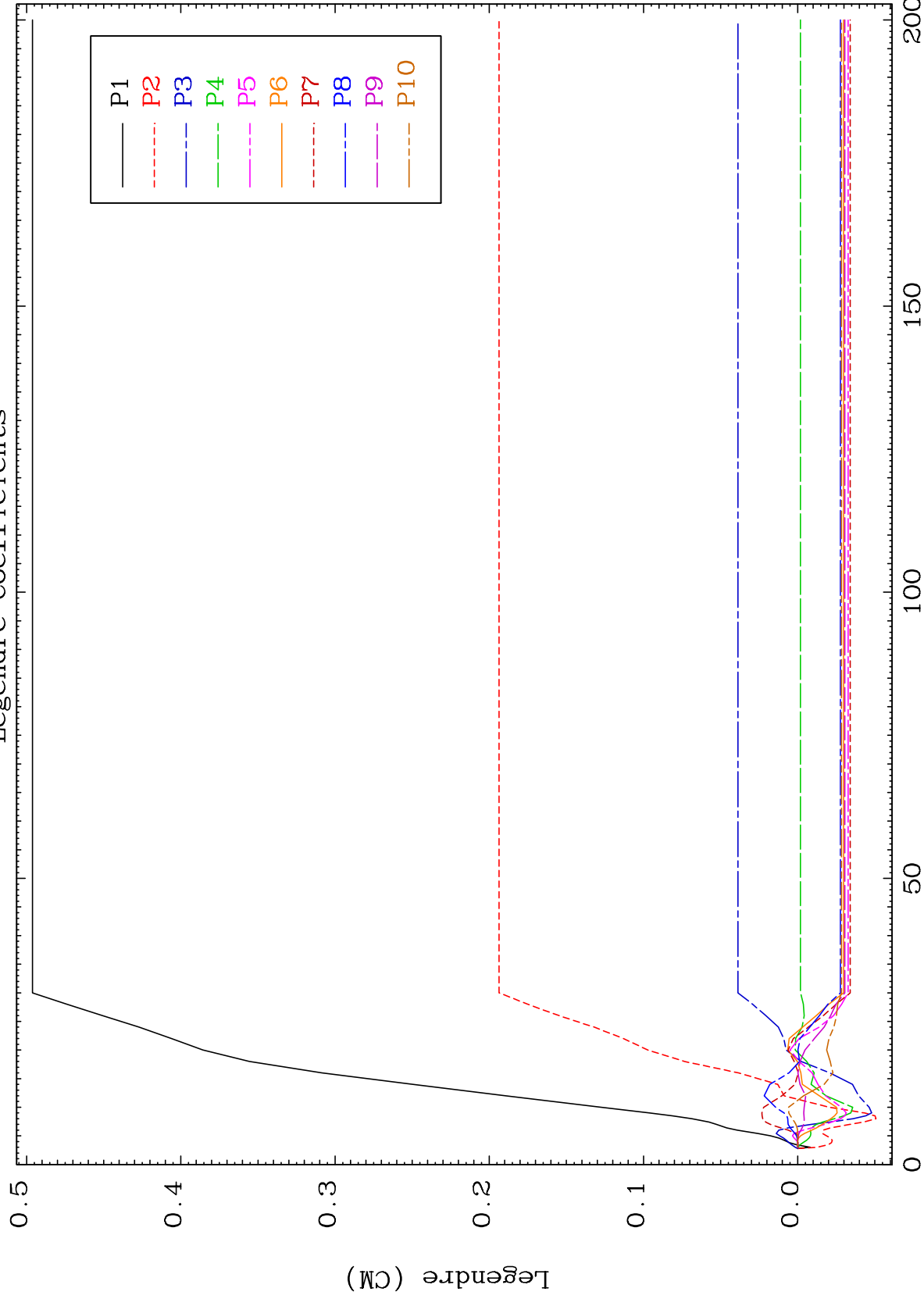
Incident Energy (MeV)

56

MAT 8325

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

83-Bi-209



57

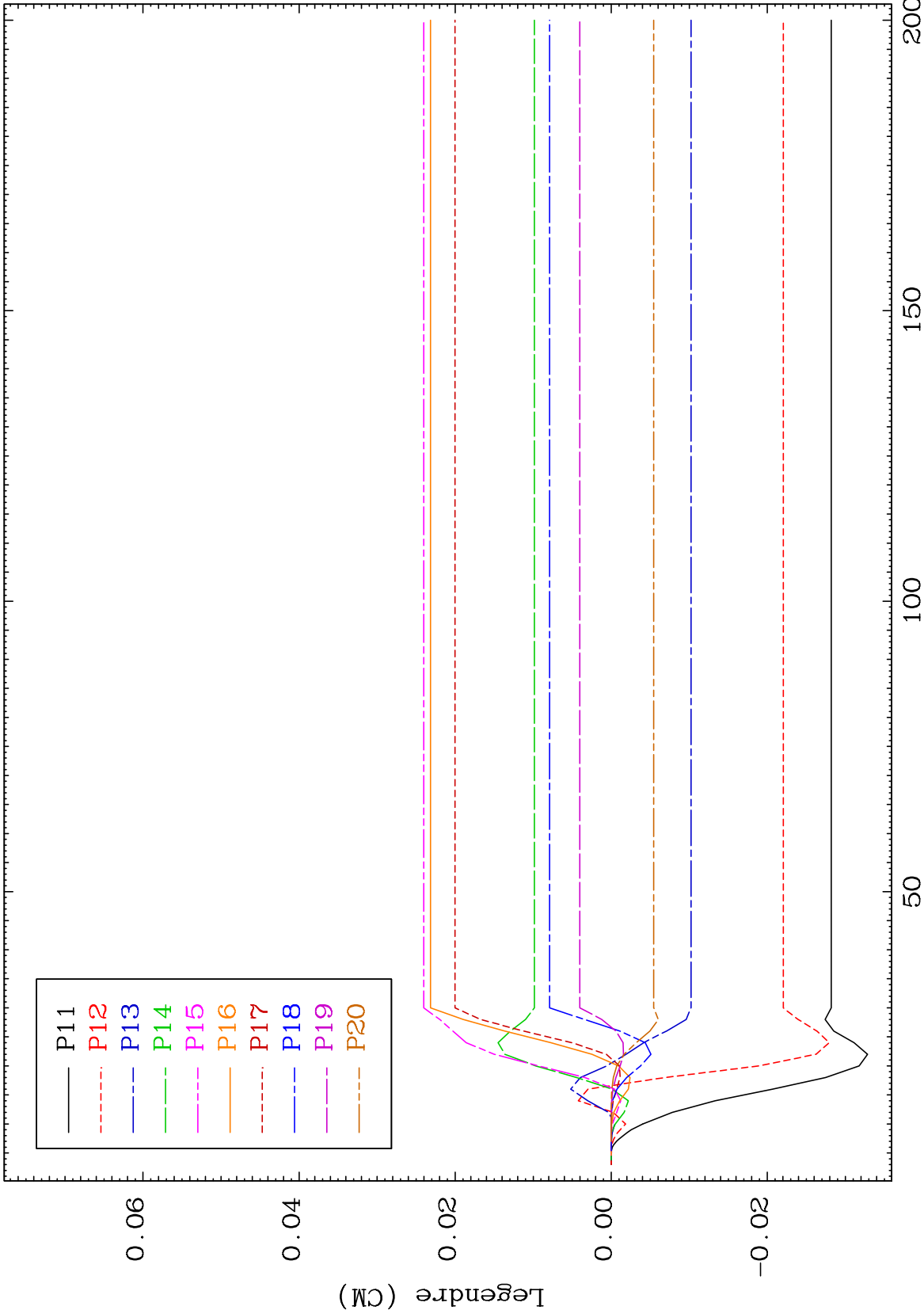
83-Bi-209

83-Bi-209

MAT 8325

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

83-Bi-209



58

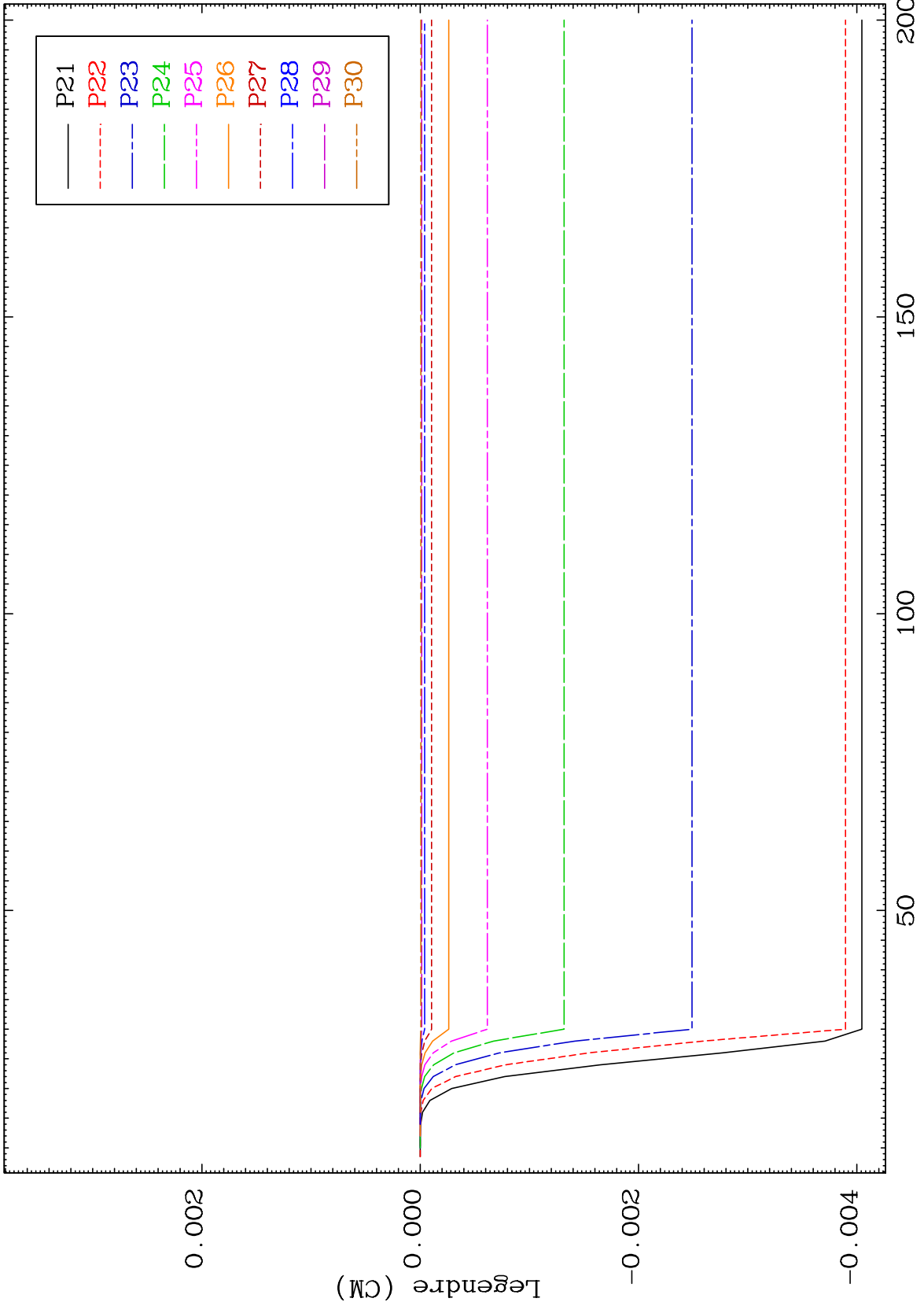
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



59

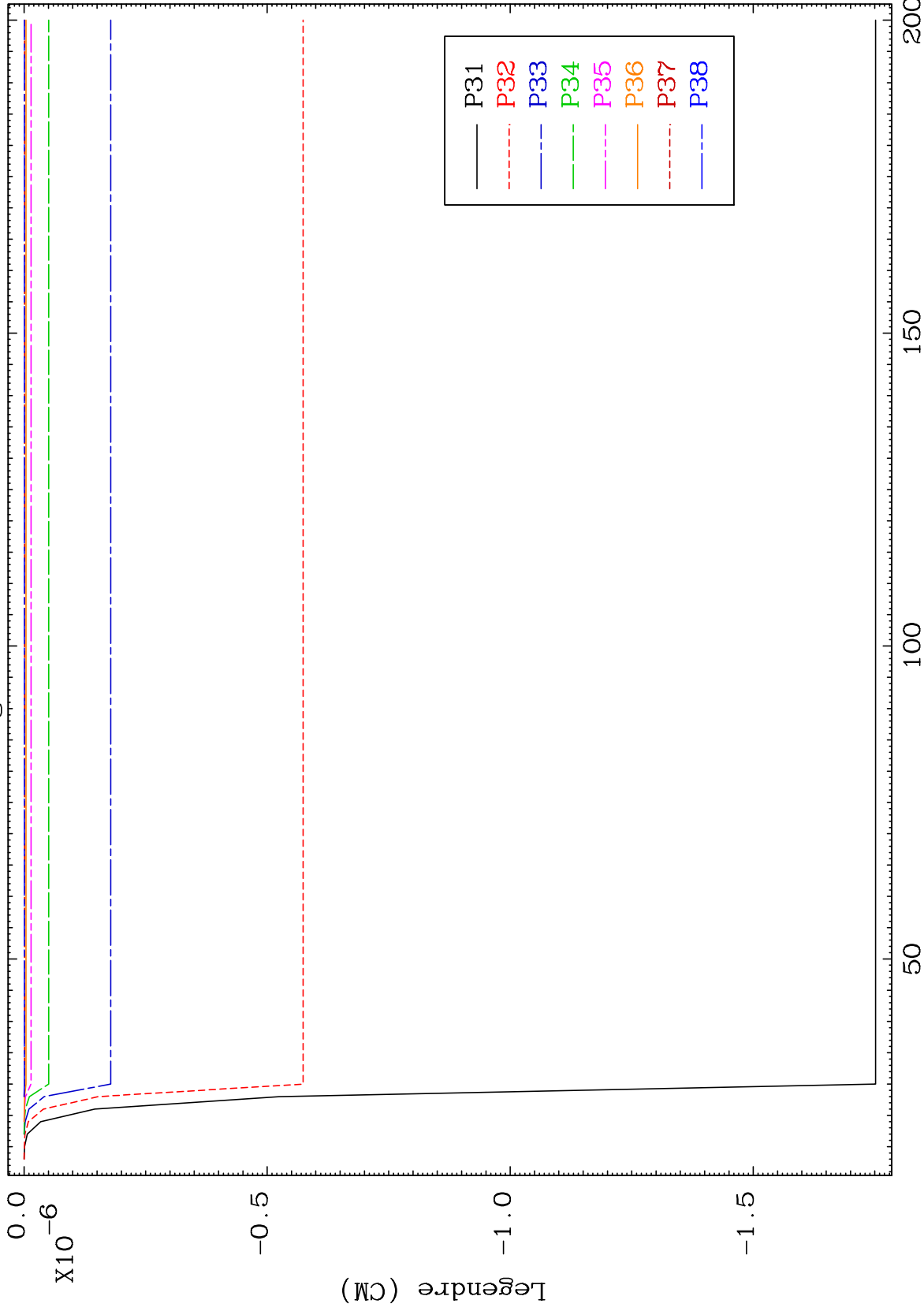
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

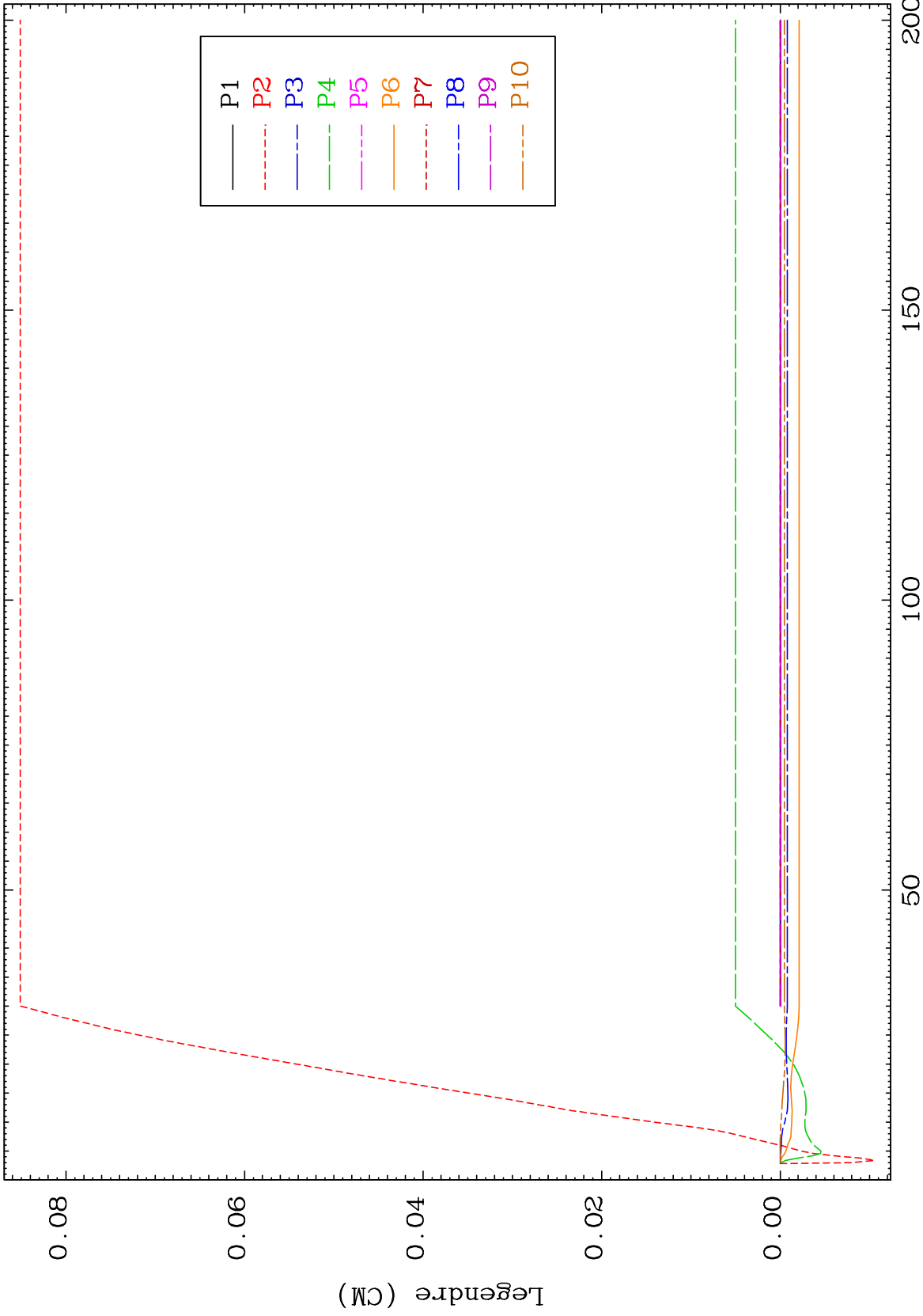
83-Bi-209



MAT 8325

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

83-Bi-209



61

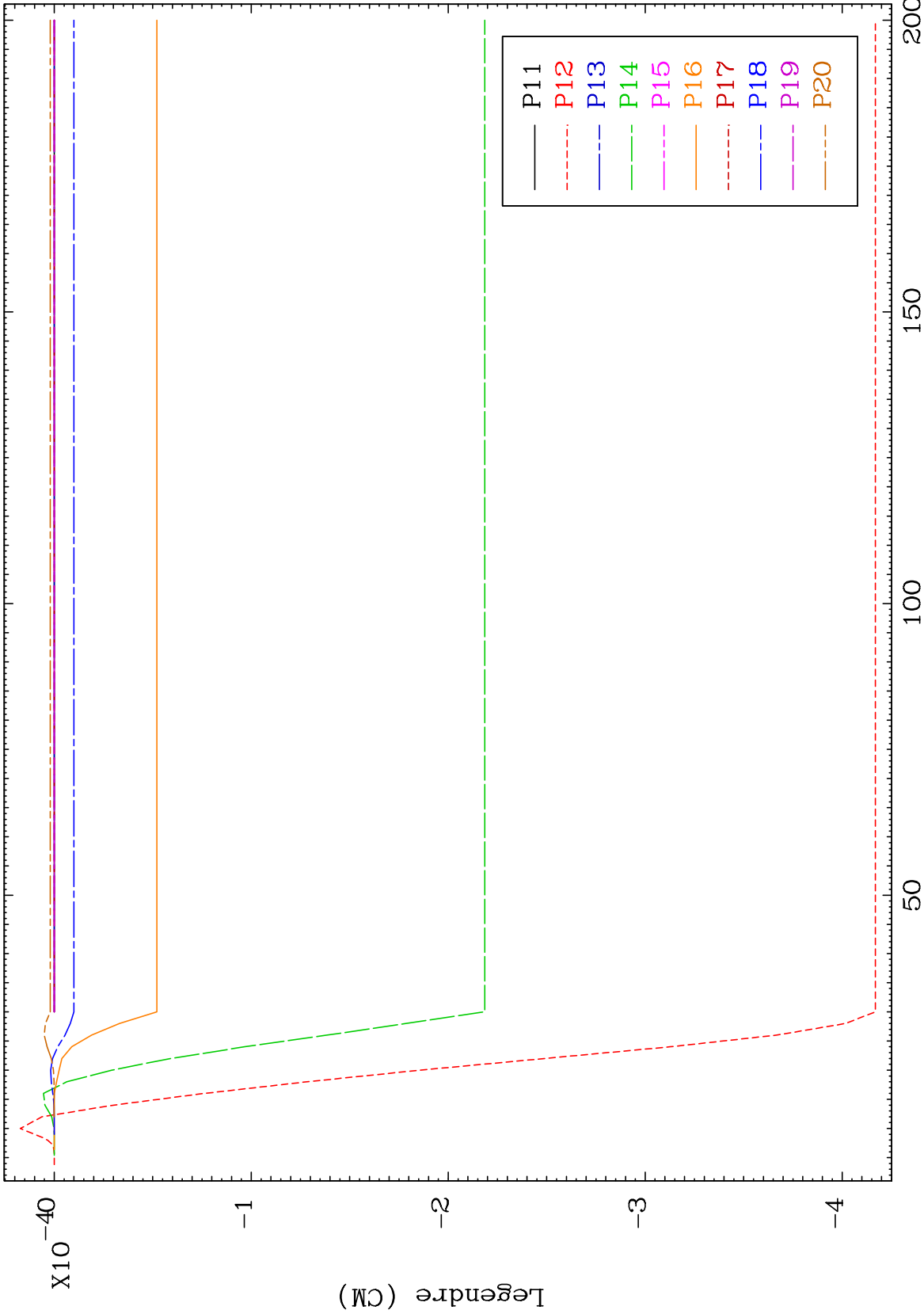
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



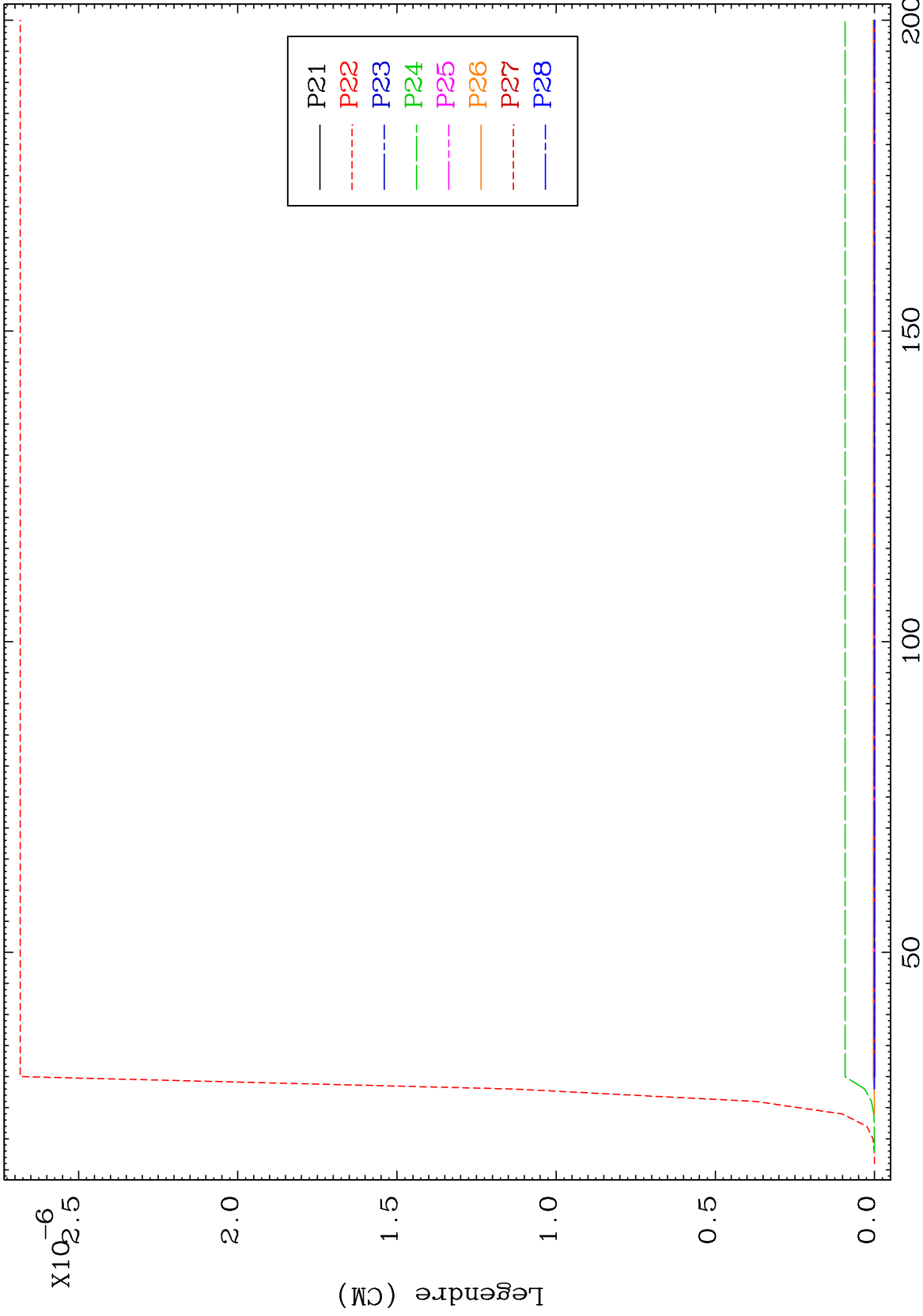
62

83-Bi-209

MAT 8325

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

83-Bi-209



63

Incident Energy (MeV)

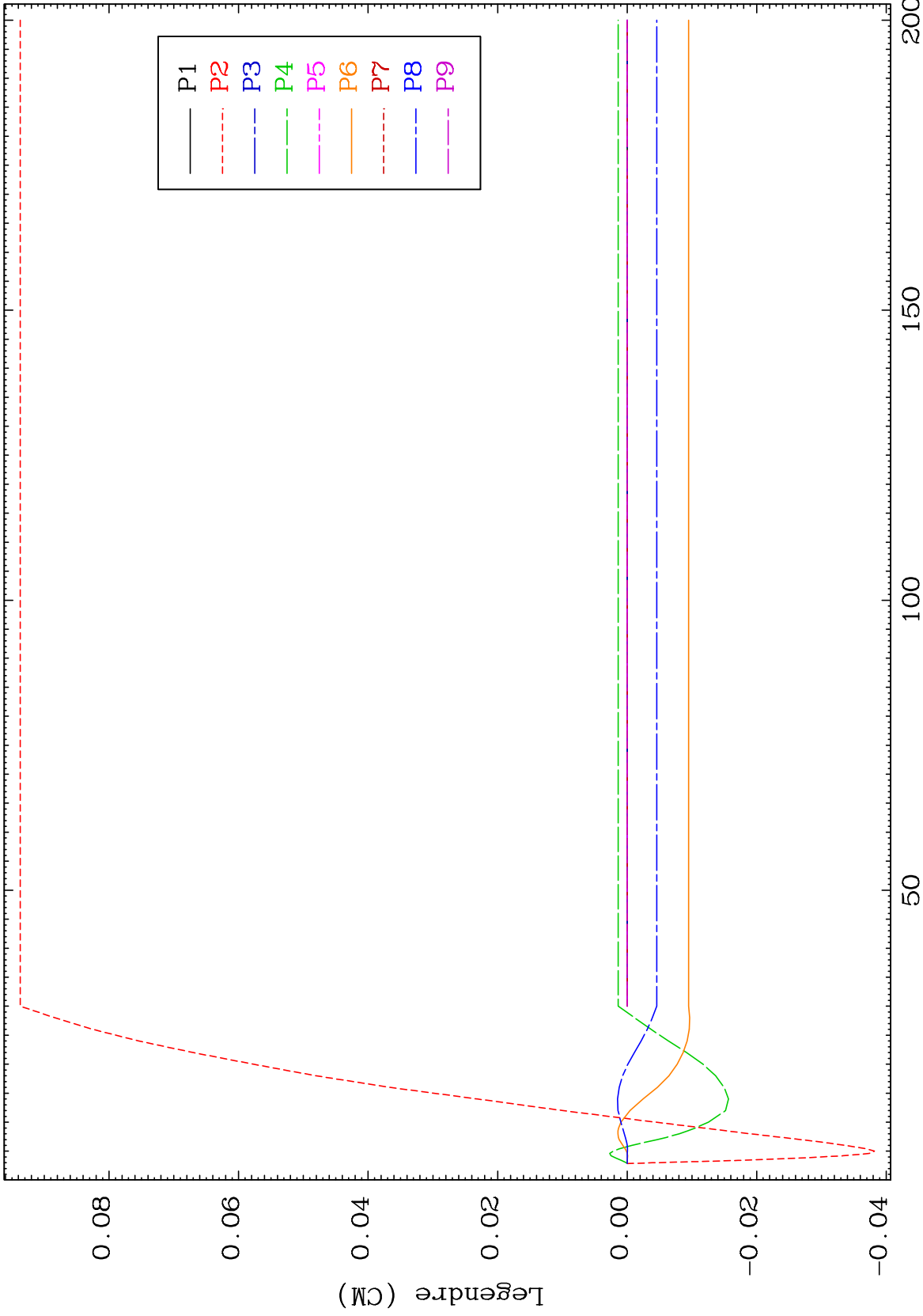
83-Bi-209



MAT 8325

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

83-Bi-209



64

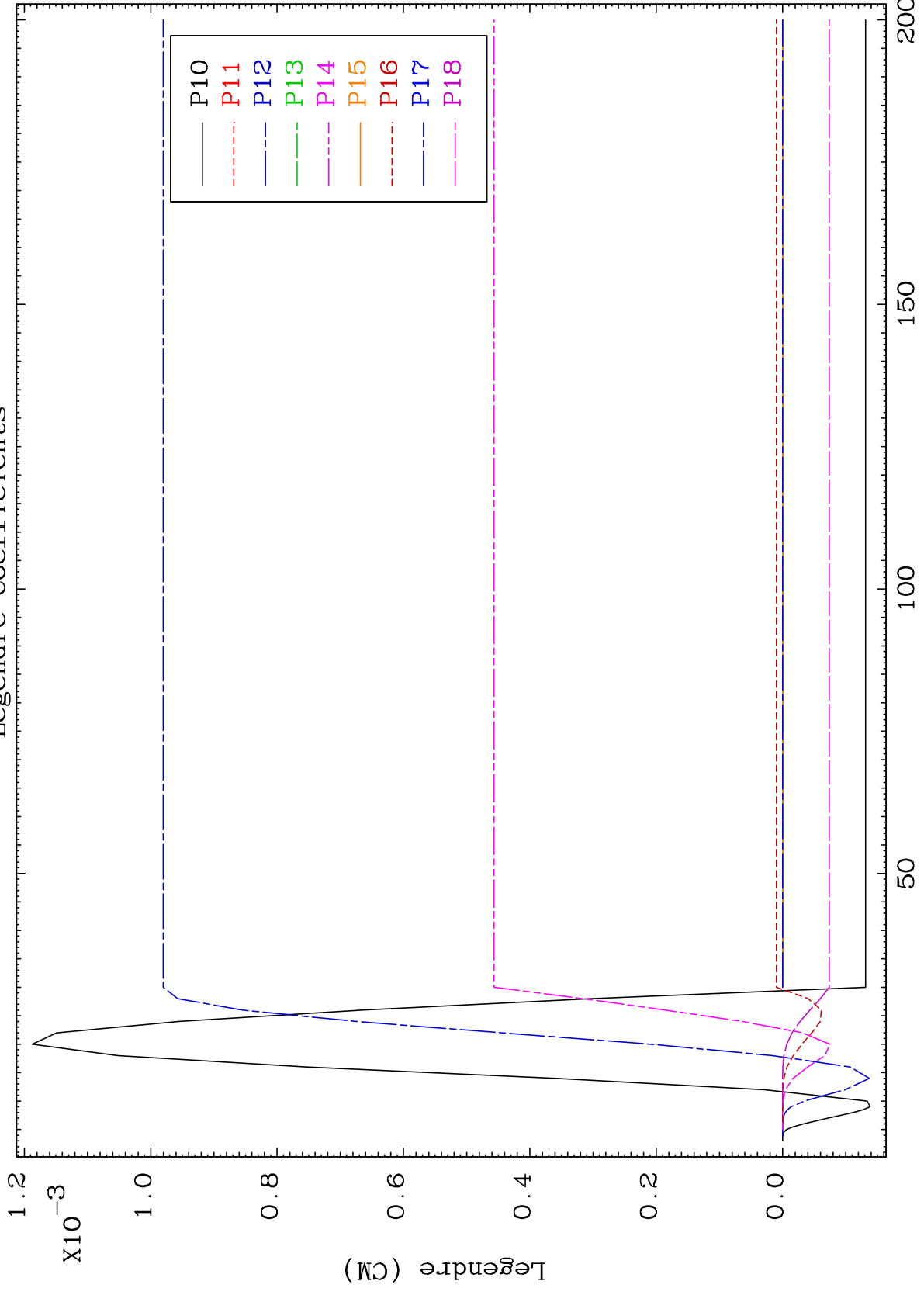
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



65

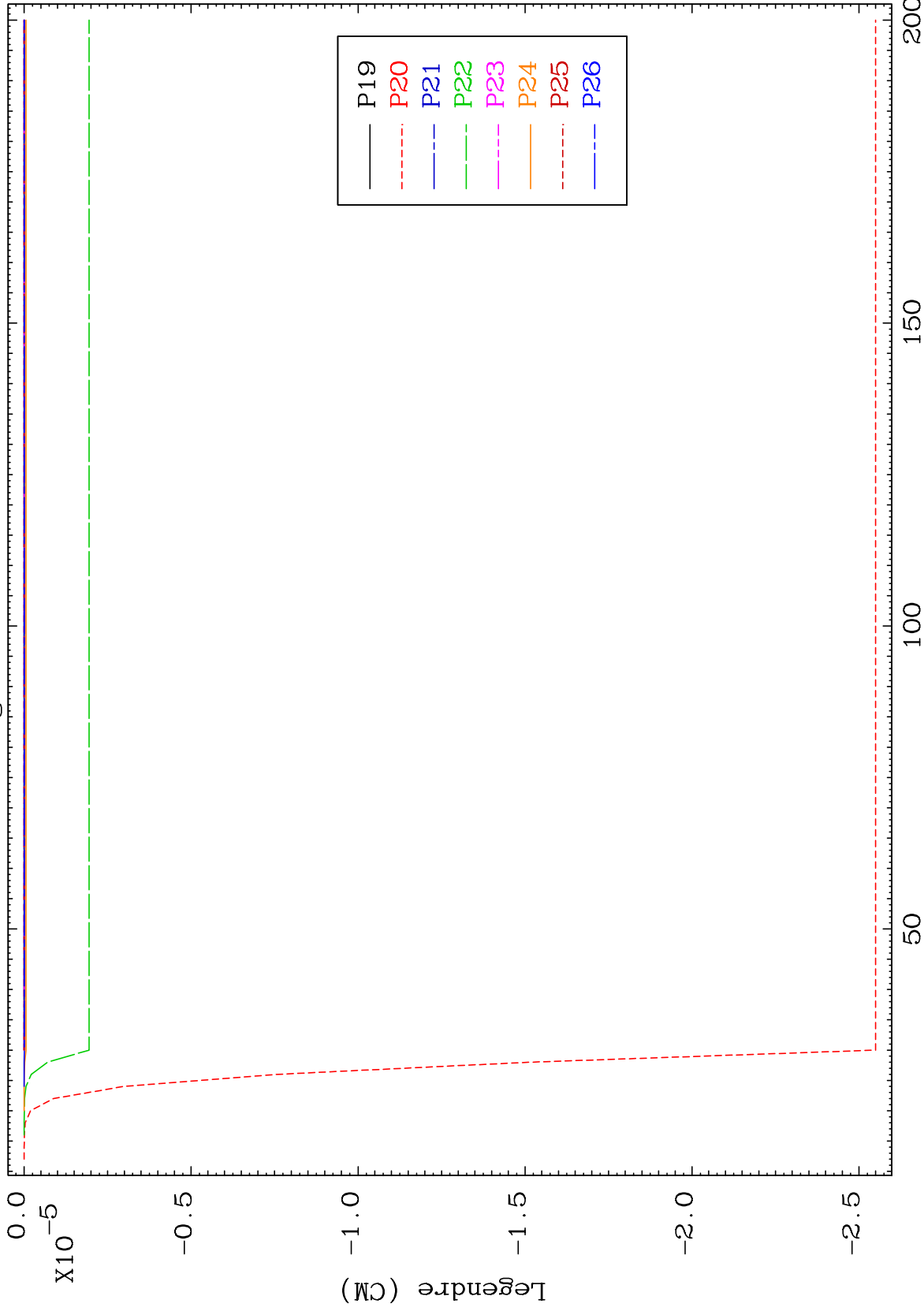
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



66

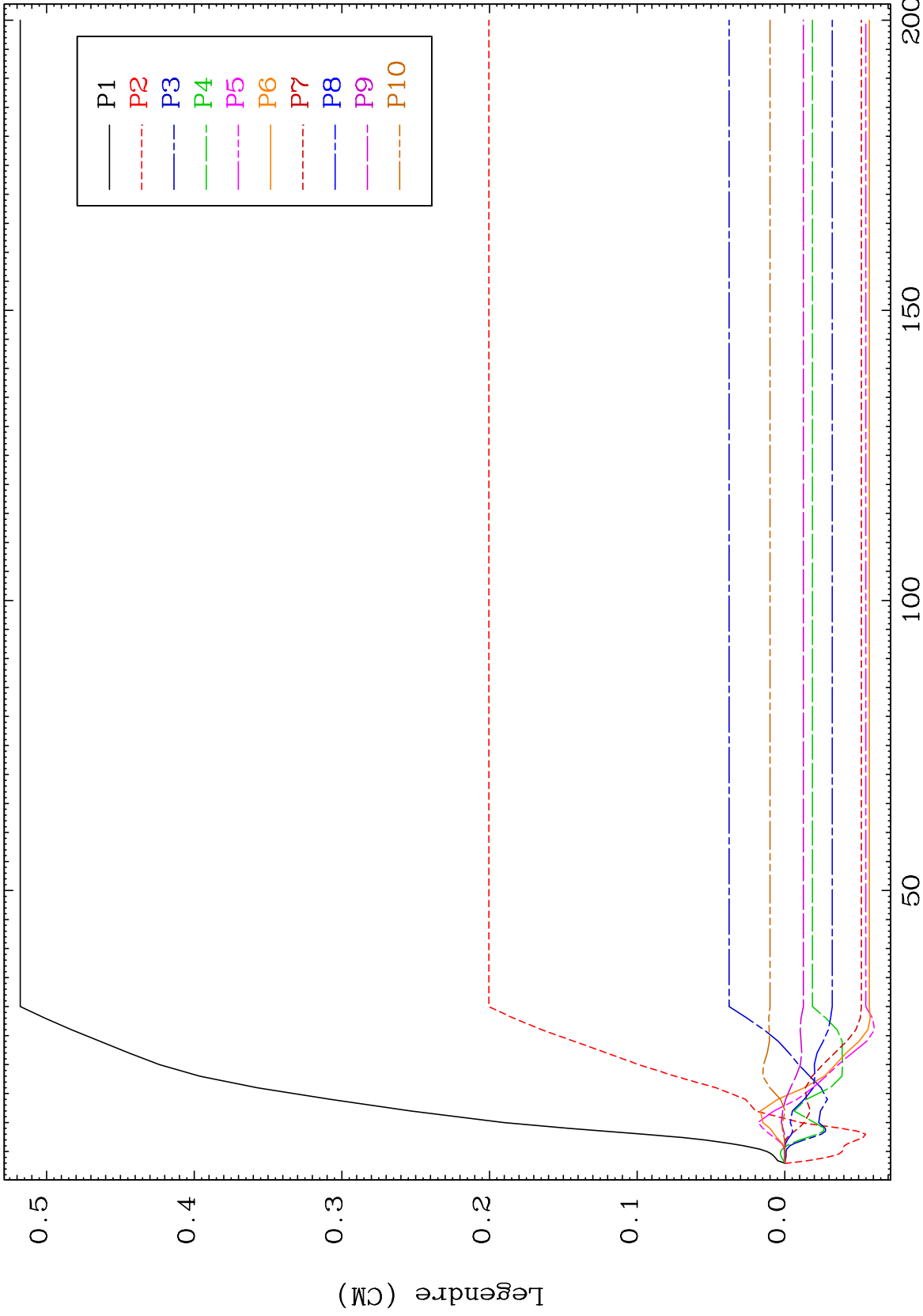
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



67

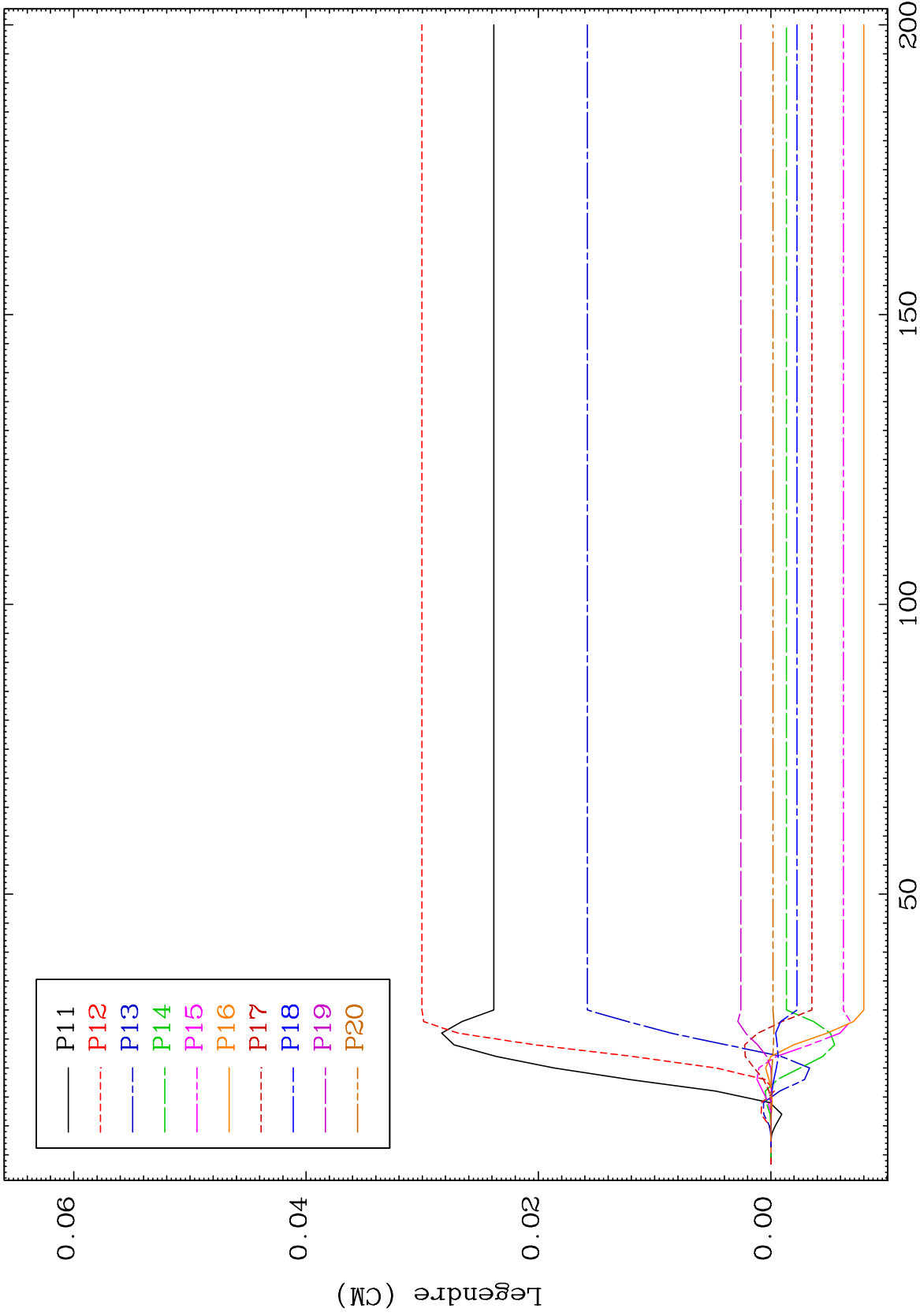
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



68

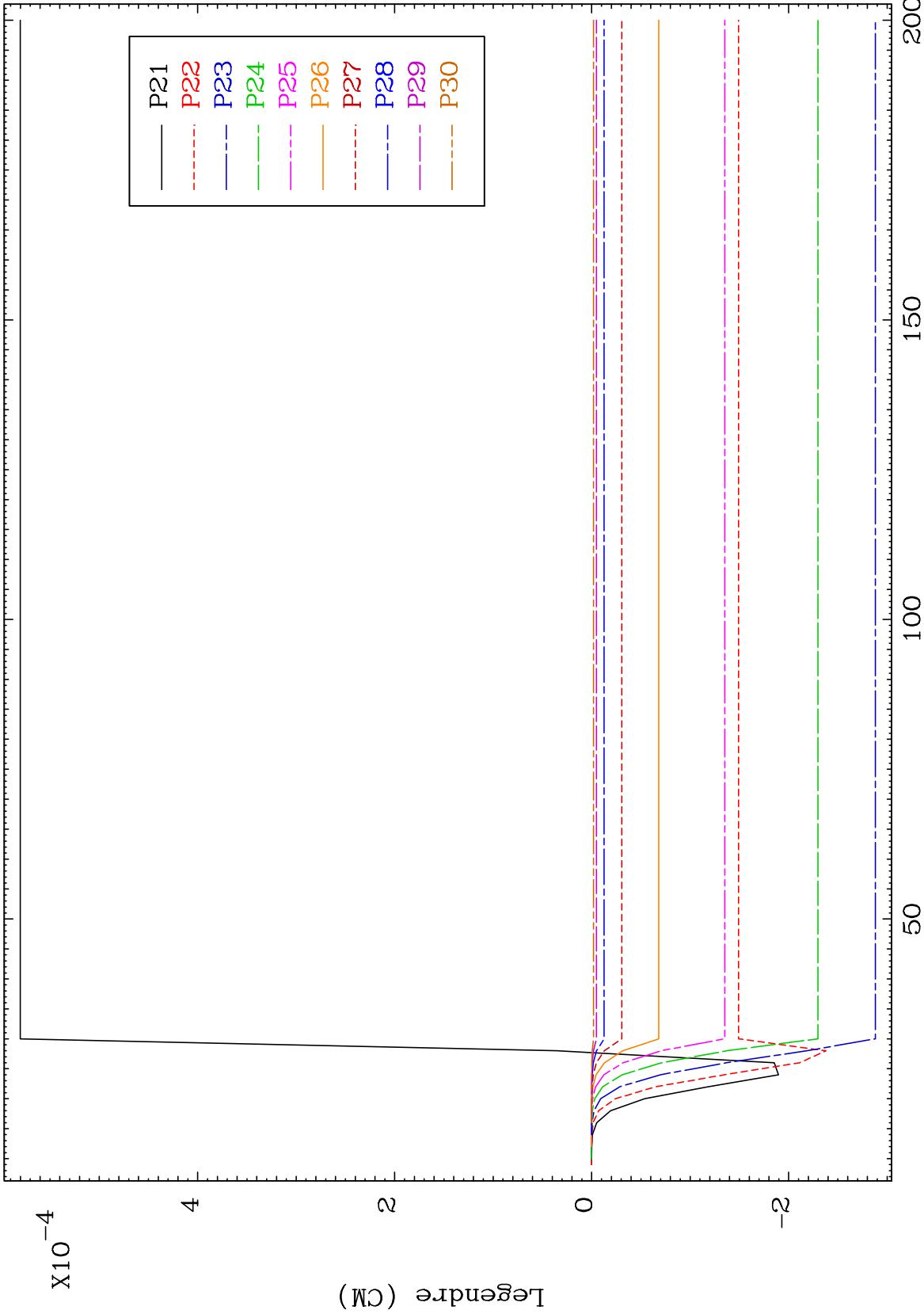
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



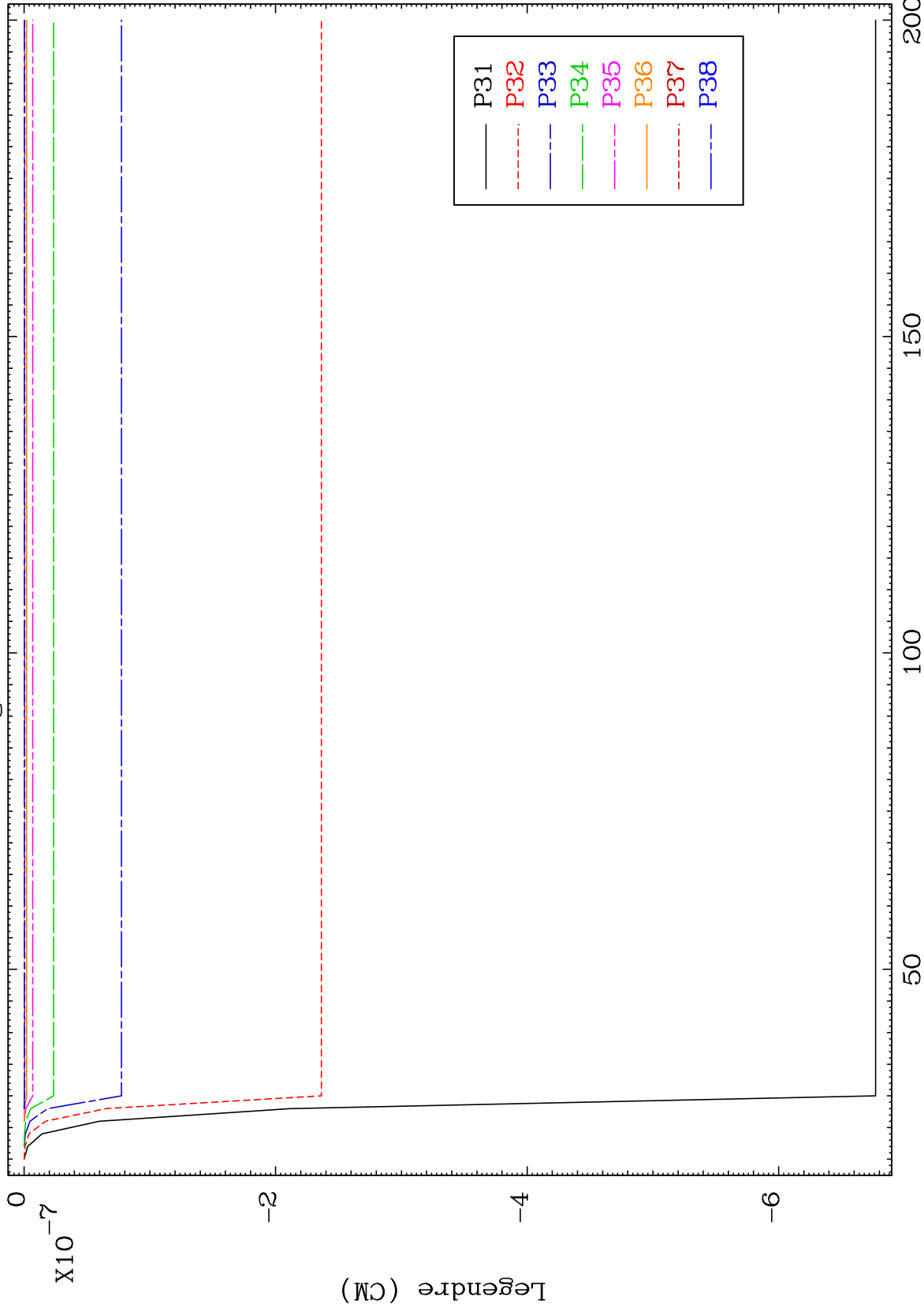
69

83-Bi-209

MAT 8325

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

83-Bi-209



83-Bi-209

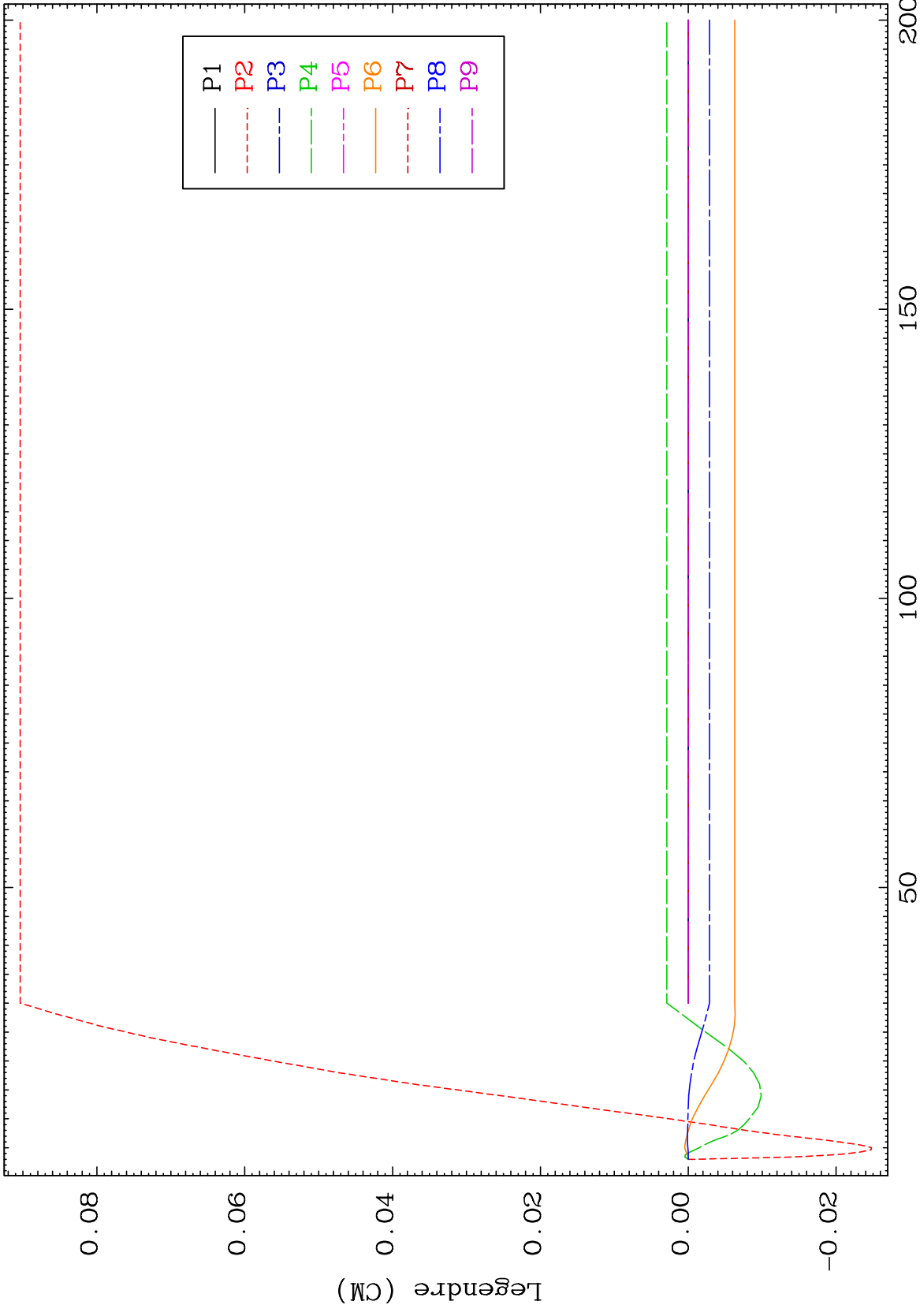
Incident Energy (MeV)

70

MAT 8325

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

83-Bi-209



71

Incident Energy (MeV)

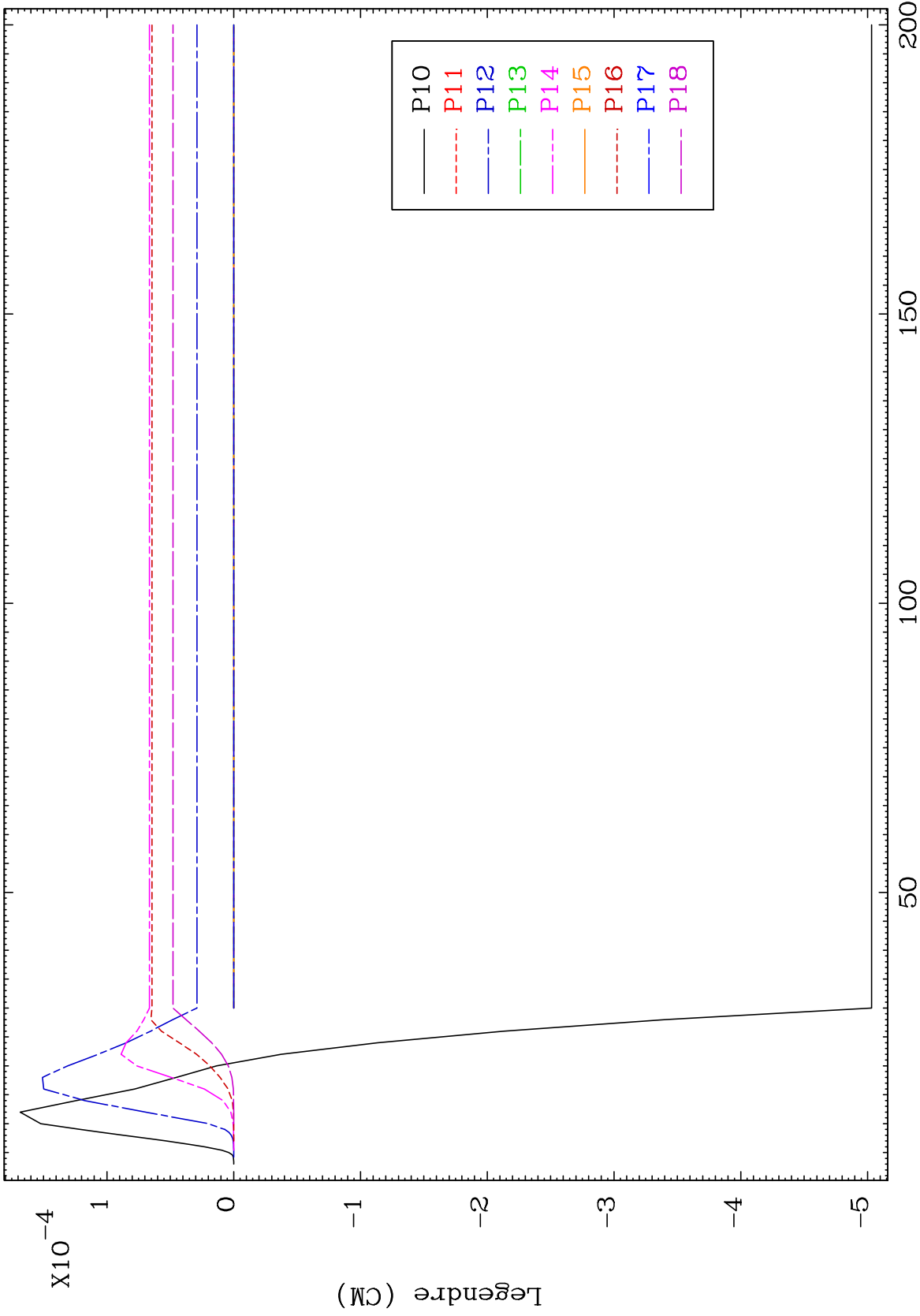
83-Bi-209



MAT 8325

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

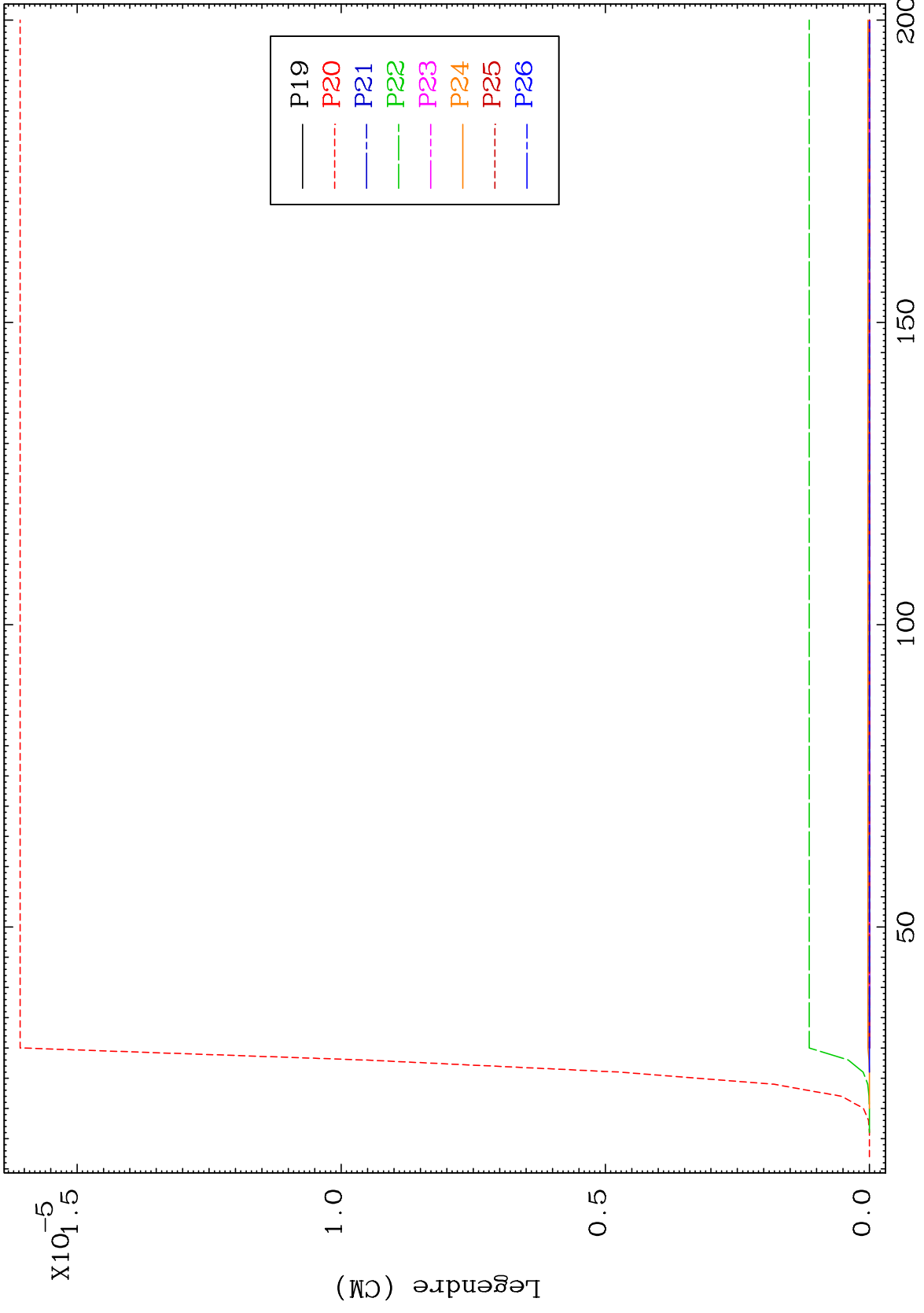
83-Bi-209



72

83-Bi-209

MAT 8325 MT= 65 (n,n') Level Legendre Coefficients 83-Bi-209

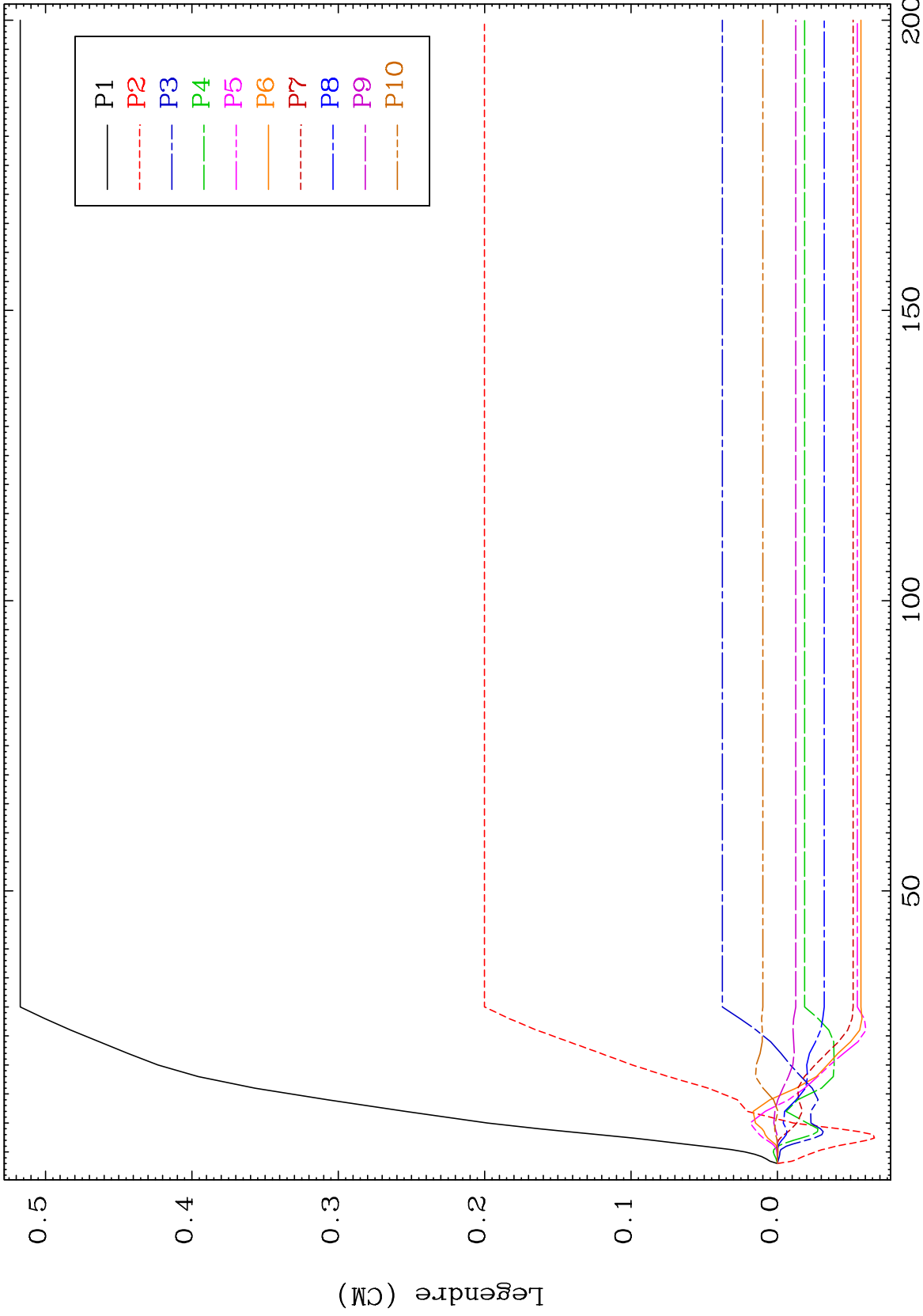


73 Incident Energy (MeV) 83-Bi-209

MAT 8325

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

83-Bi-209



74

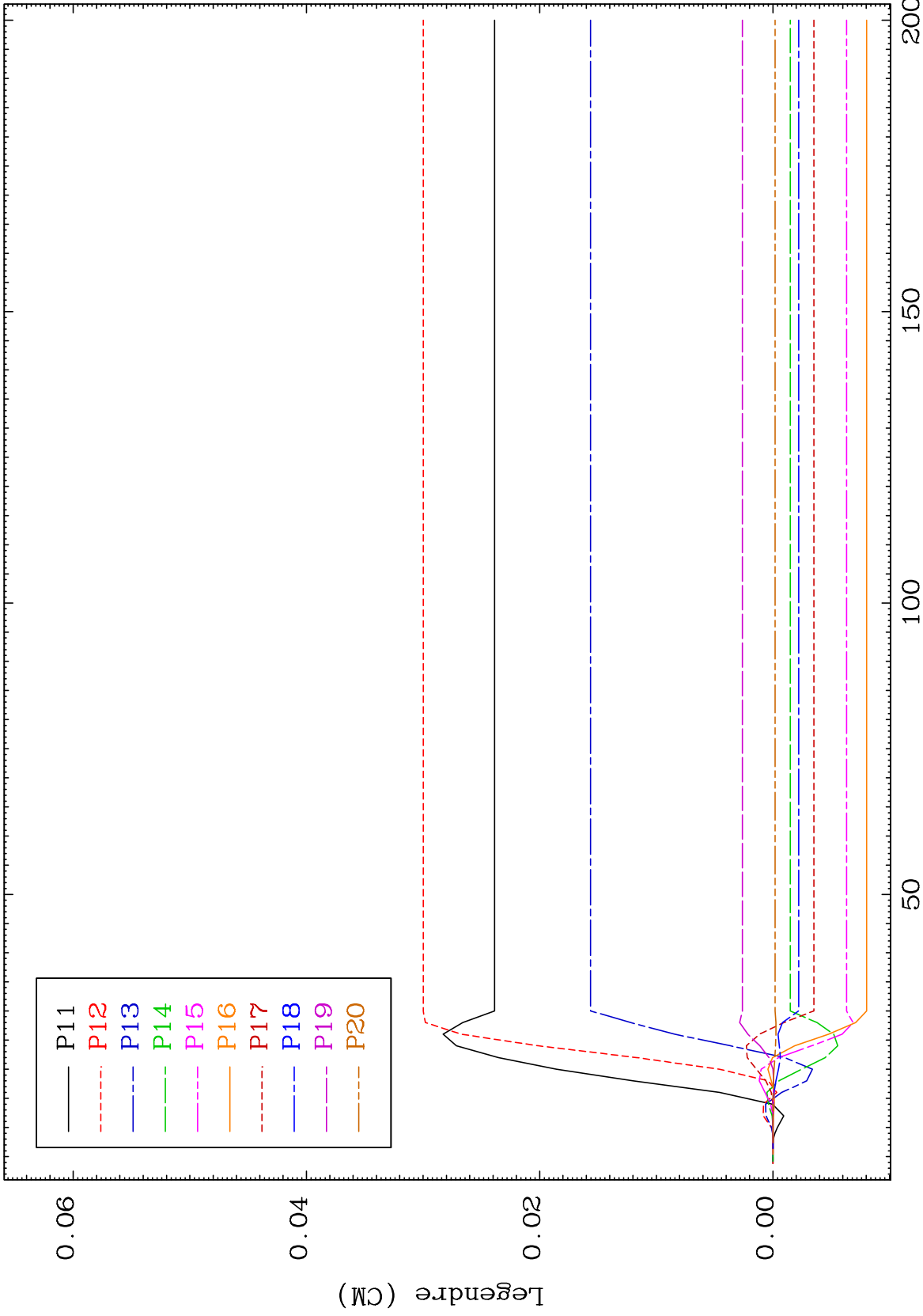
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



75

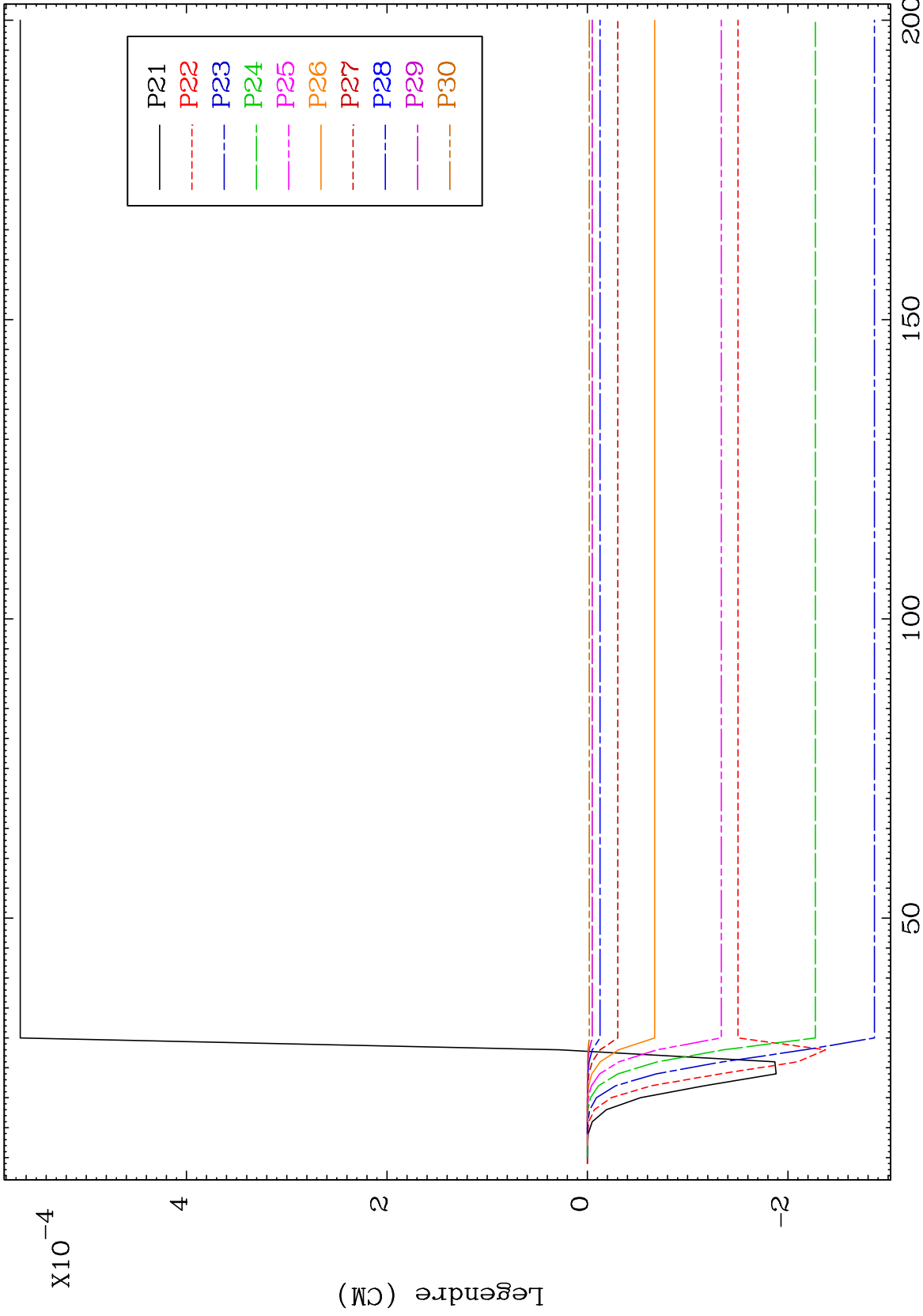
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



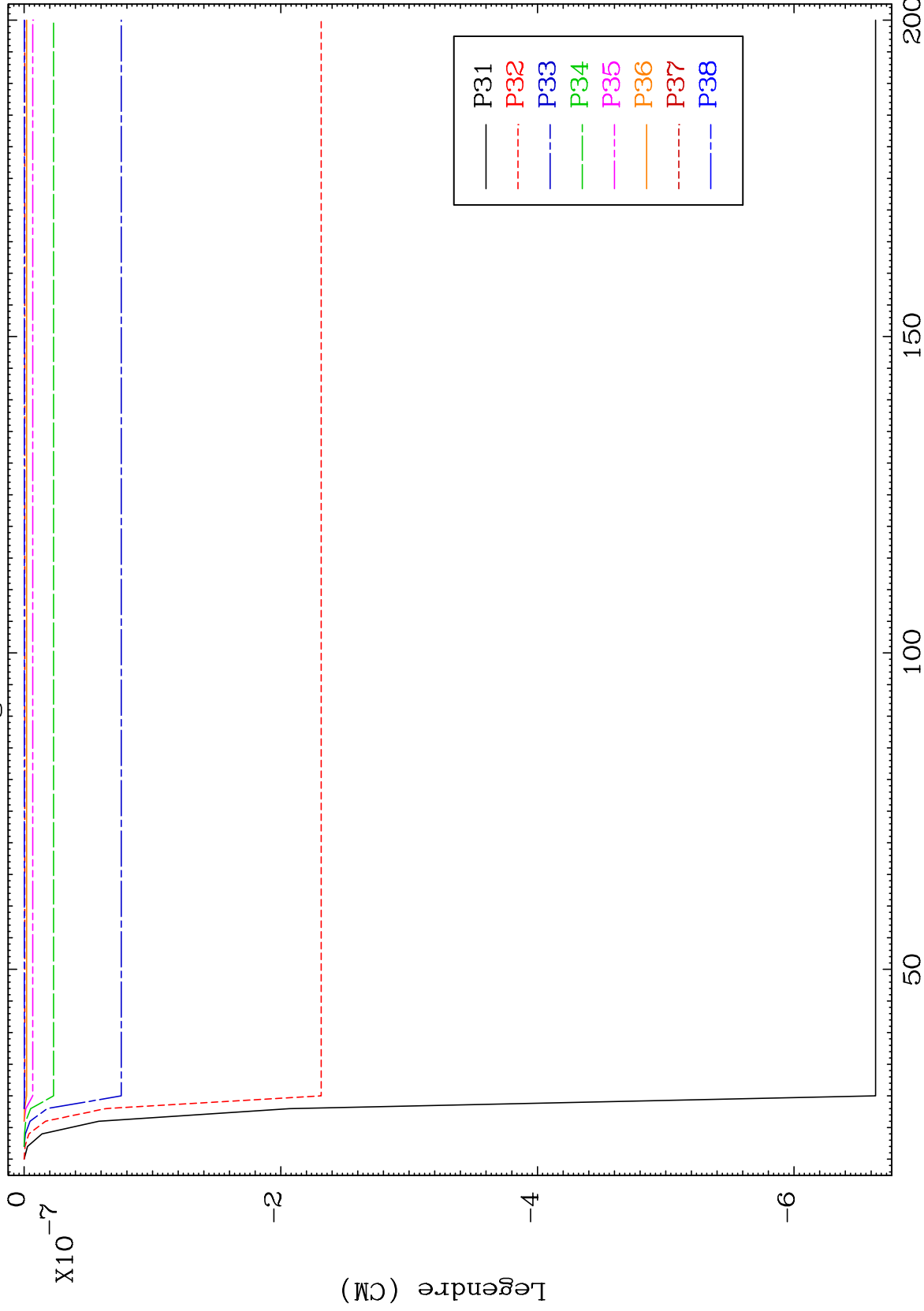
76

83-Bi-209

MAT 8325

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

83-Bi-209



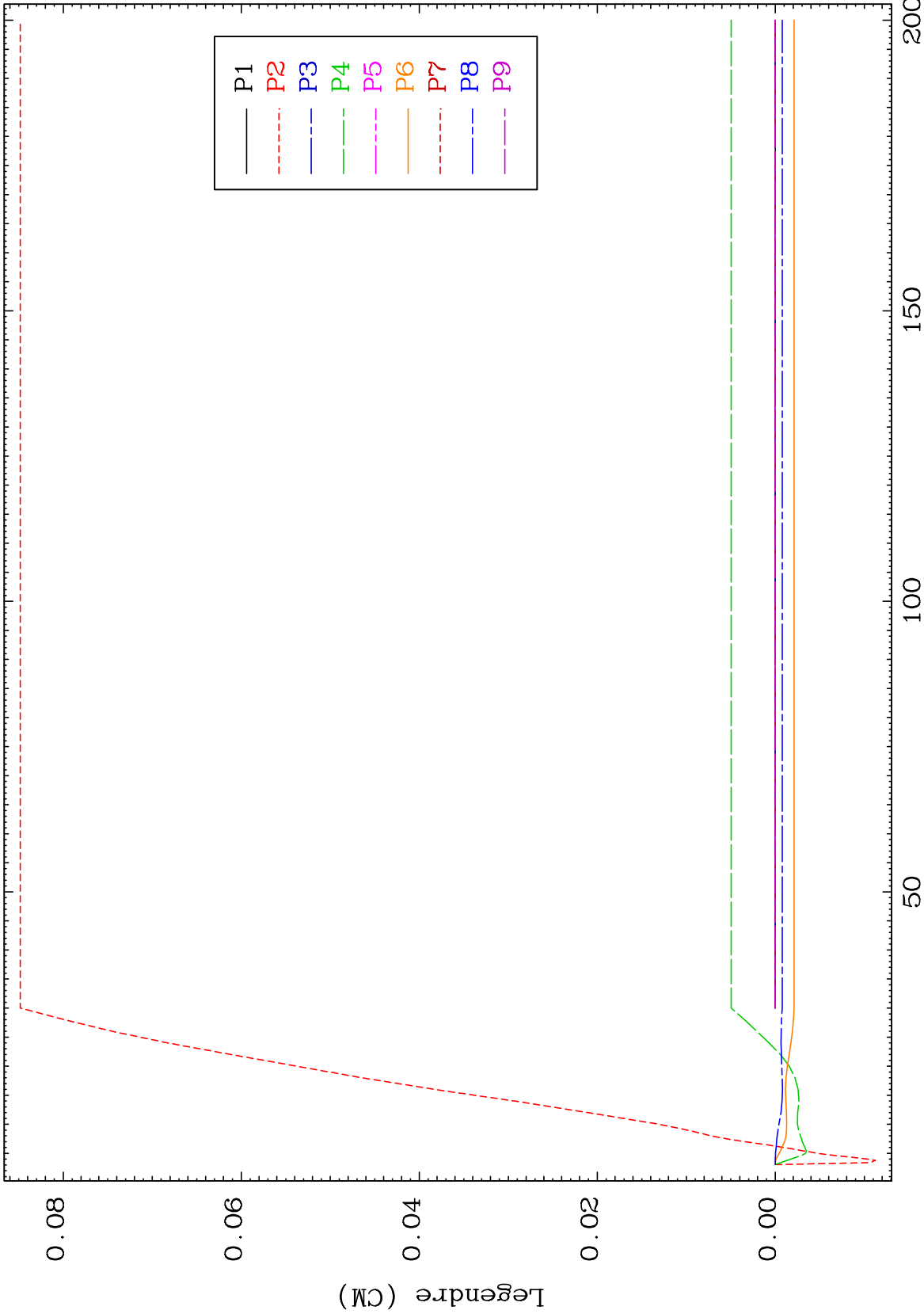
77

83-Bi-209

MAT 8325

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

83-Bi-209



78

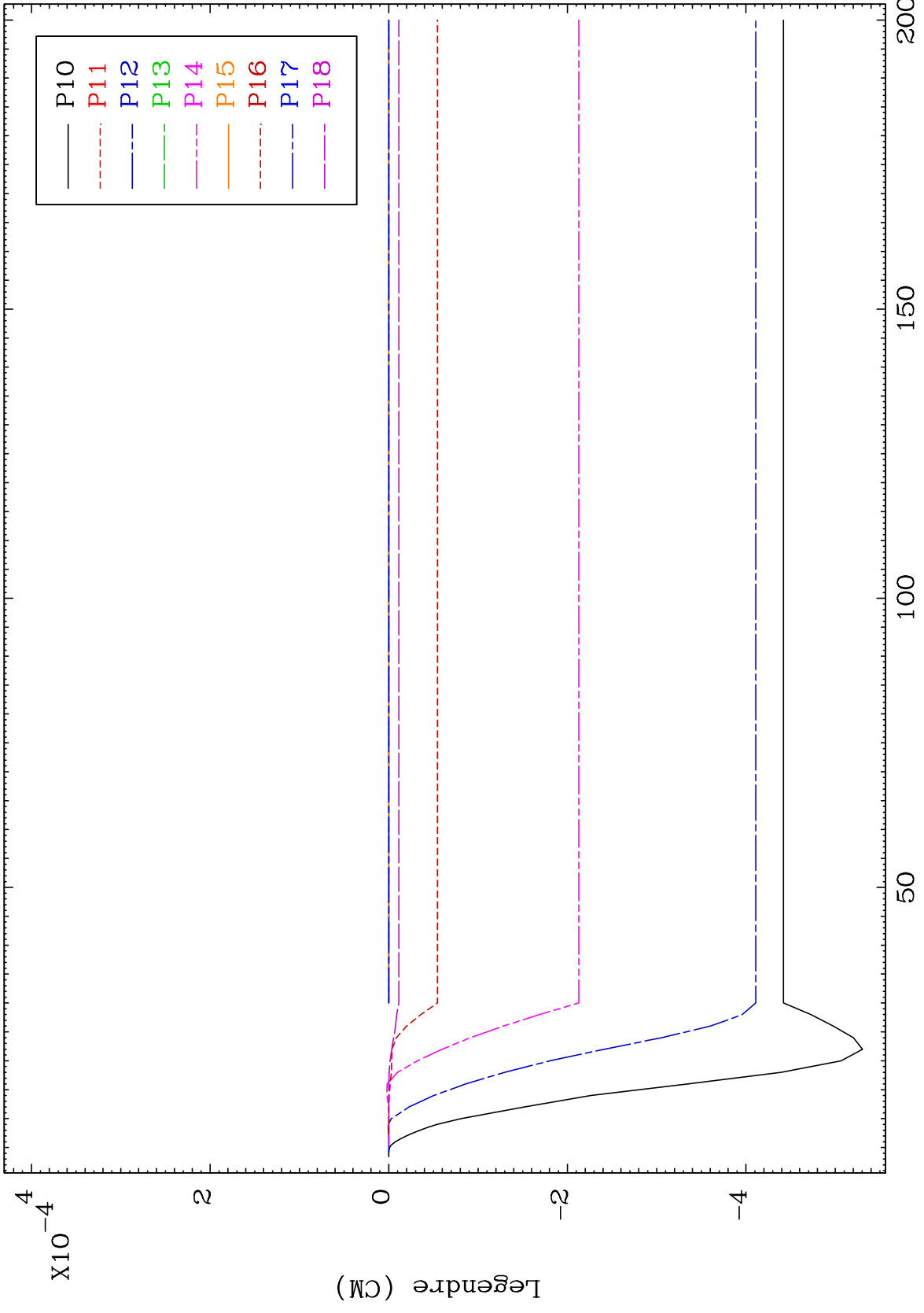
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



79

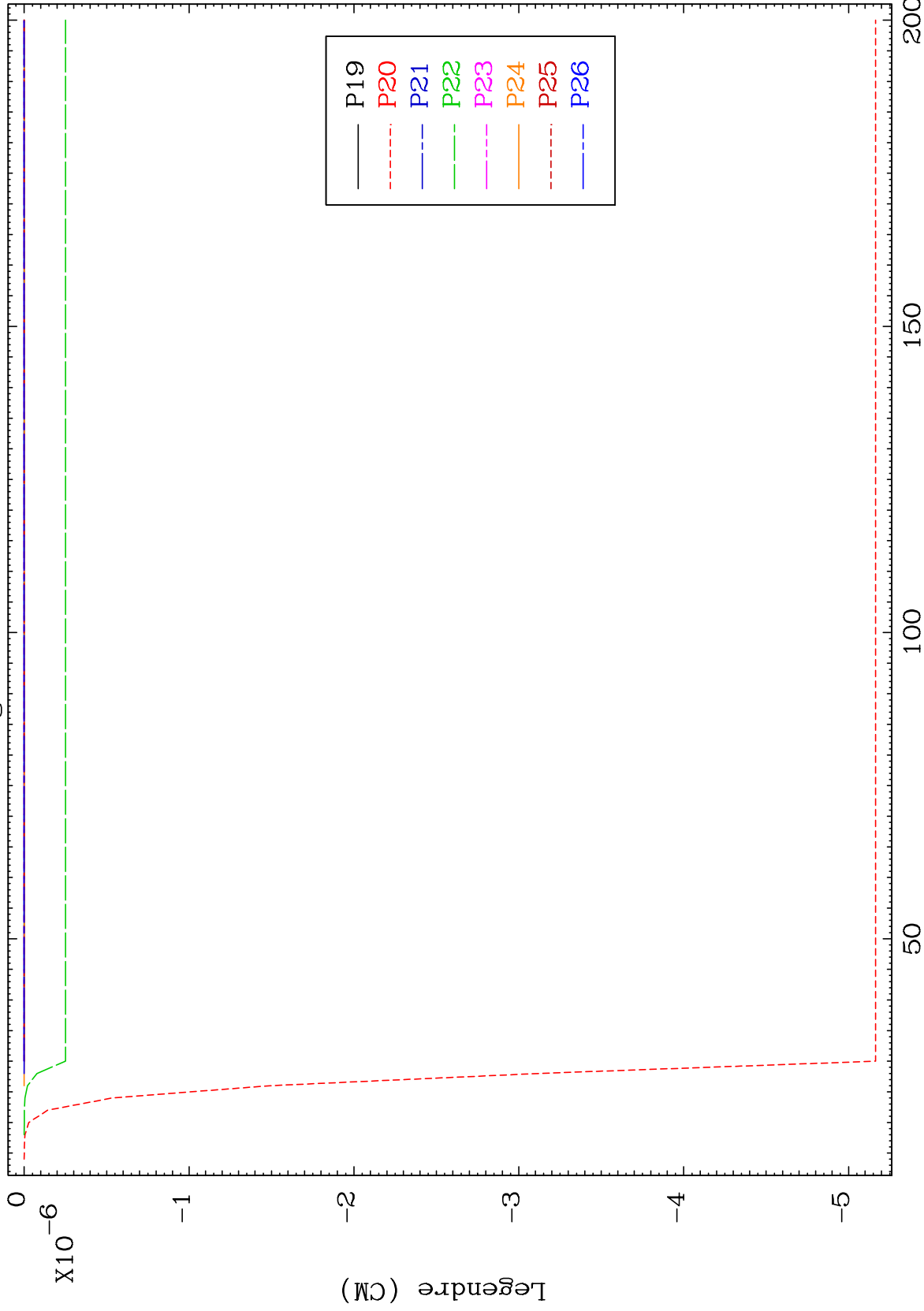
83-Bi-209



MAT 8325

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

83-Bi-209



80

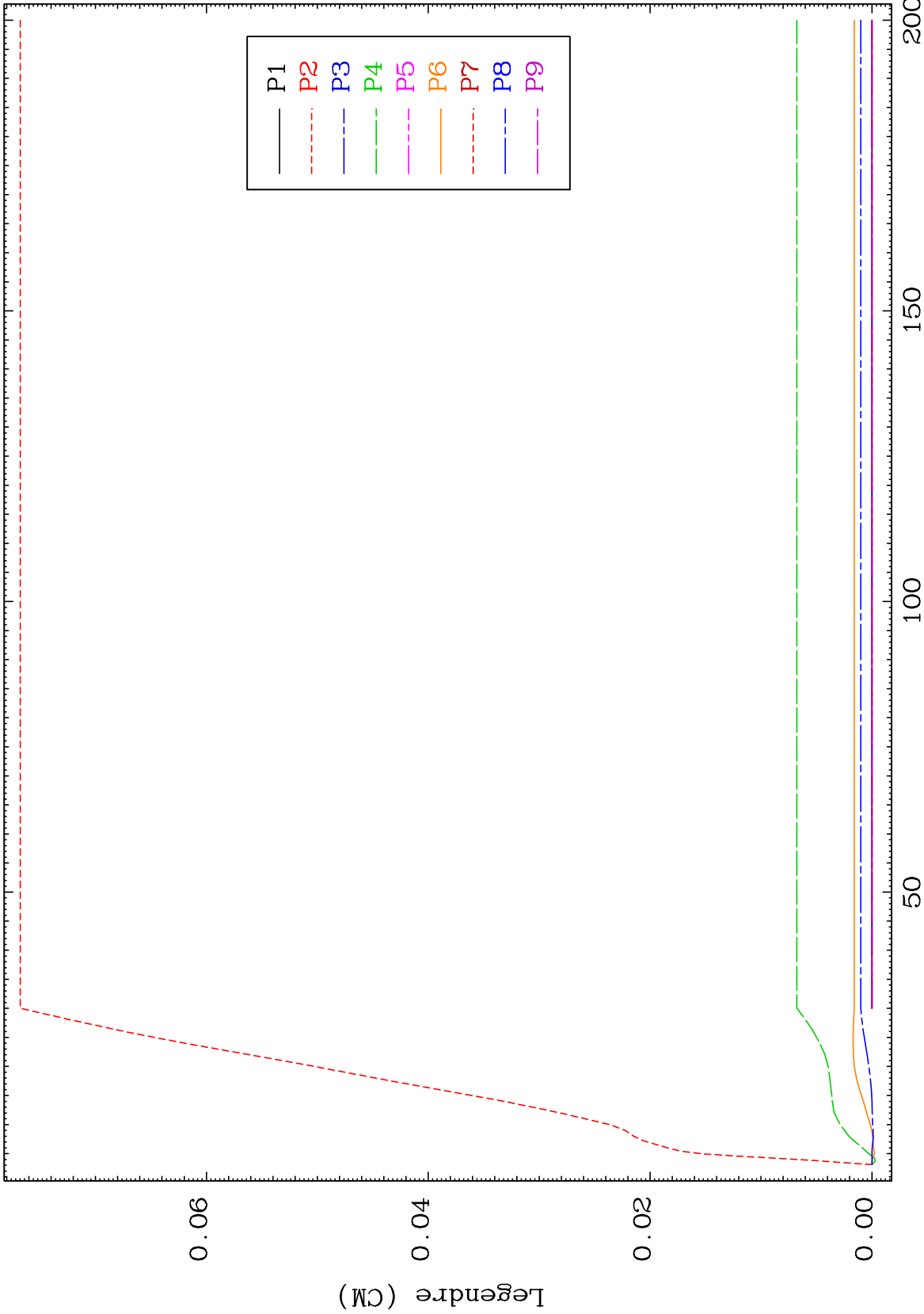
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



81

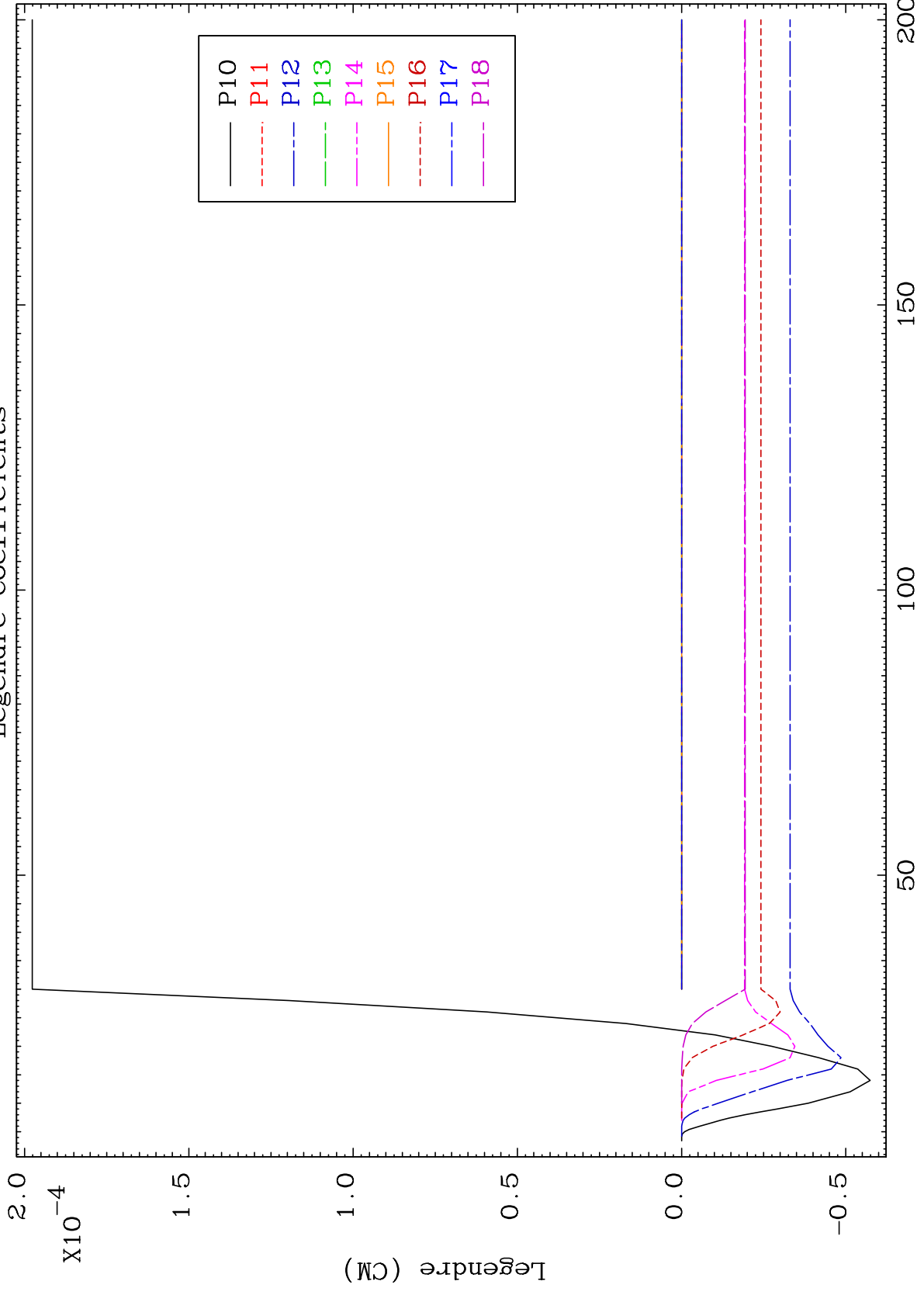
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



82

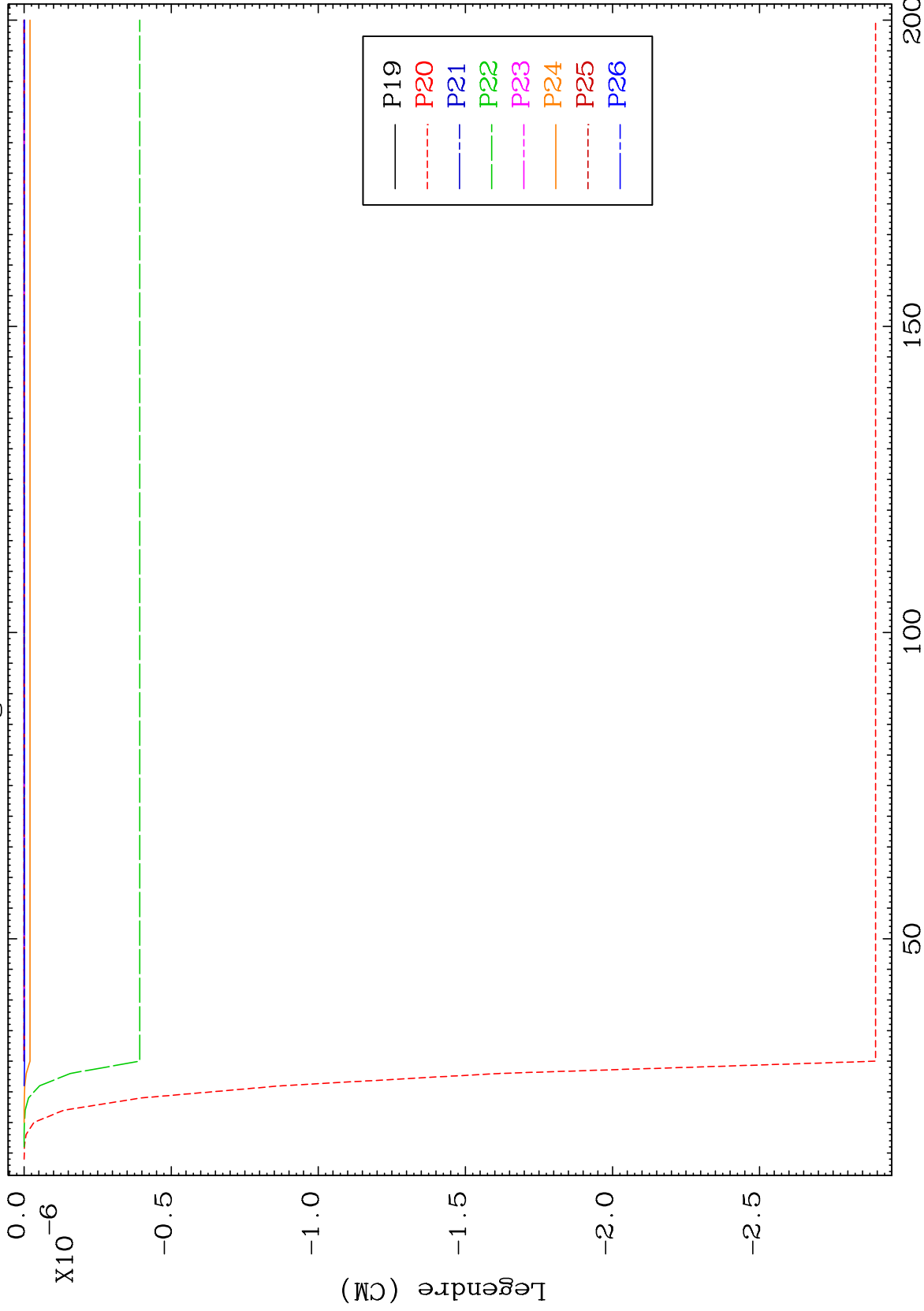
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



83

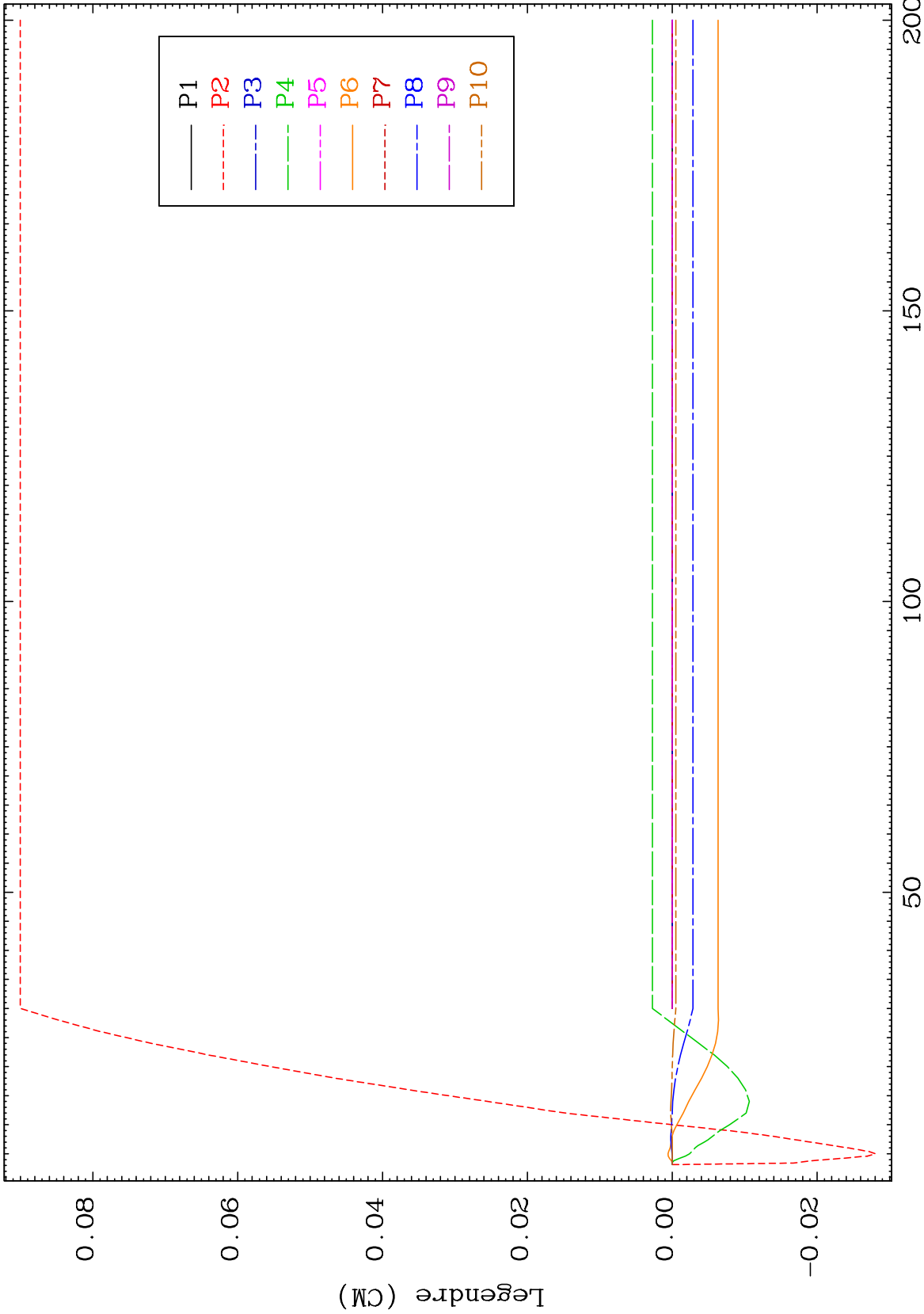
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



84

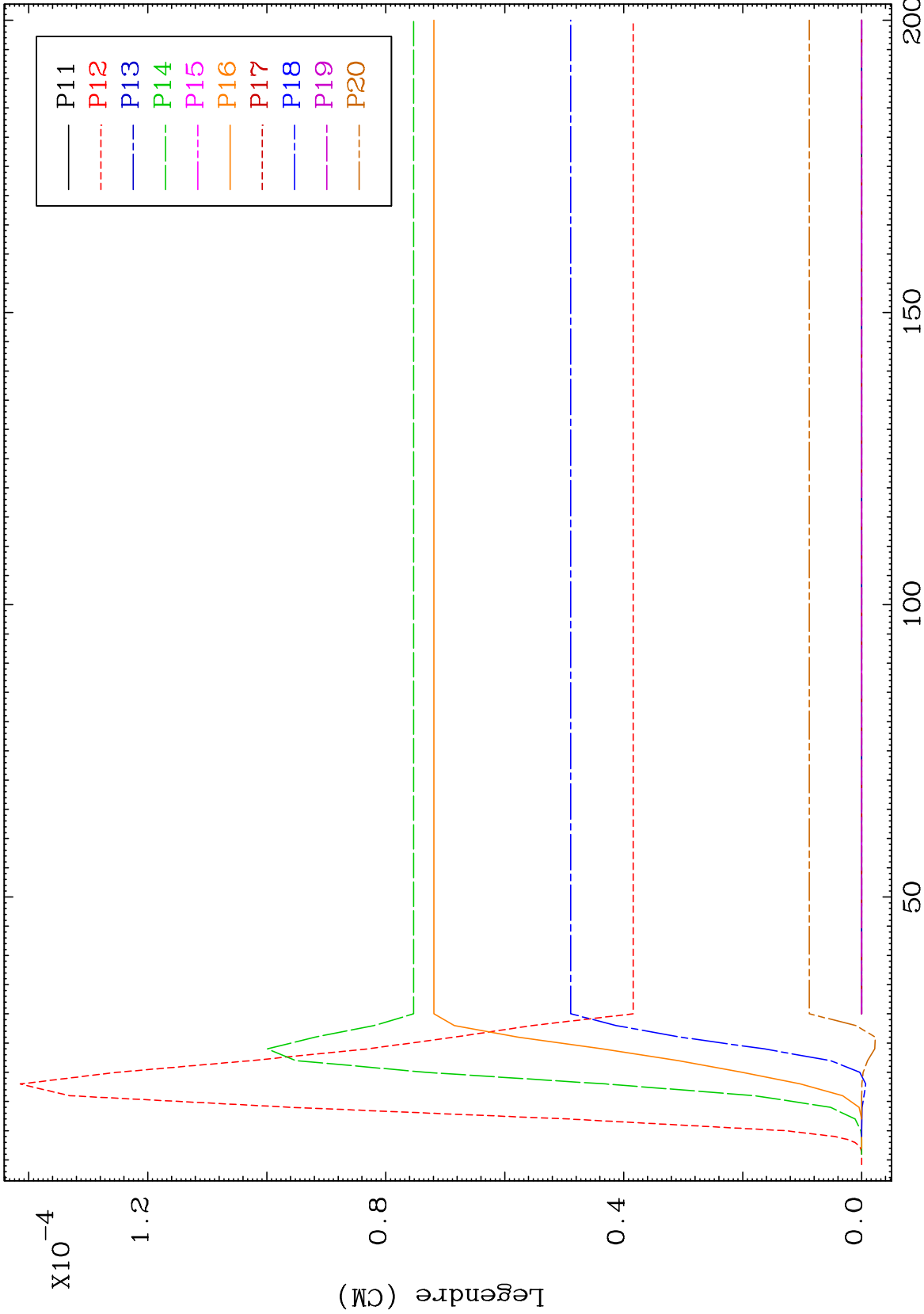
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



85

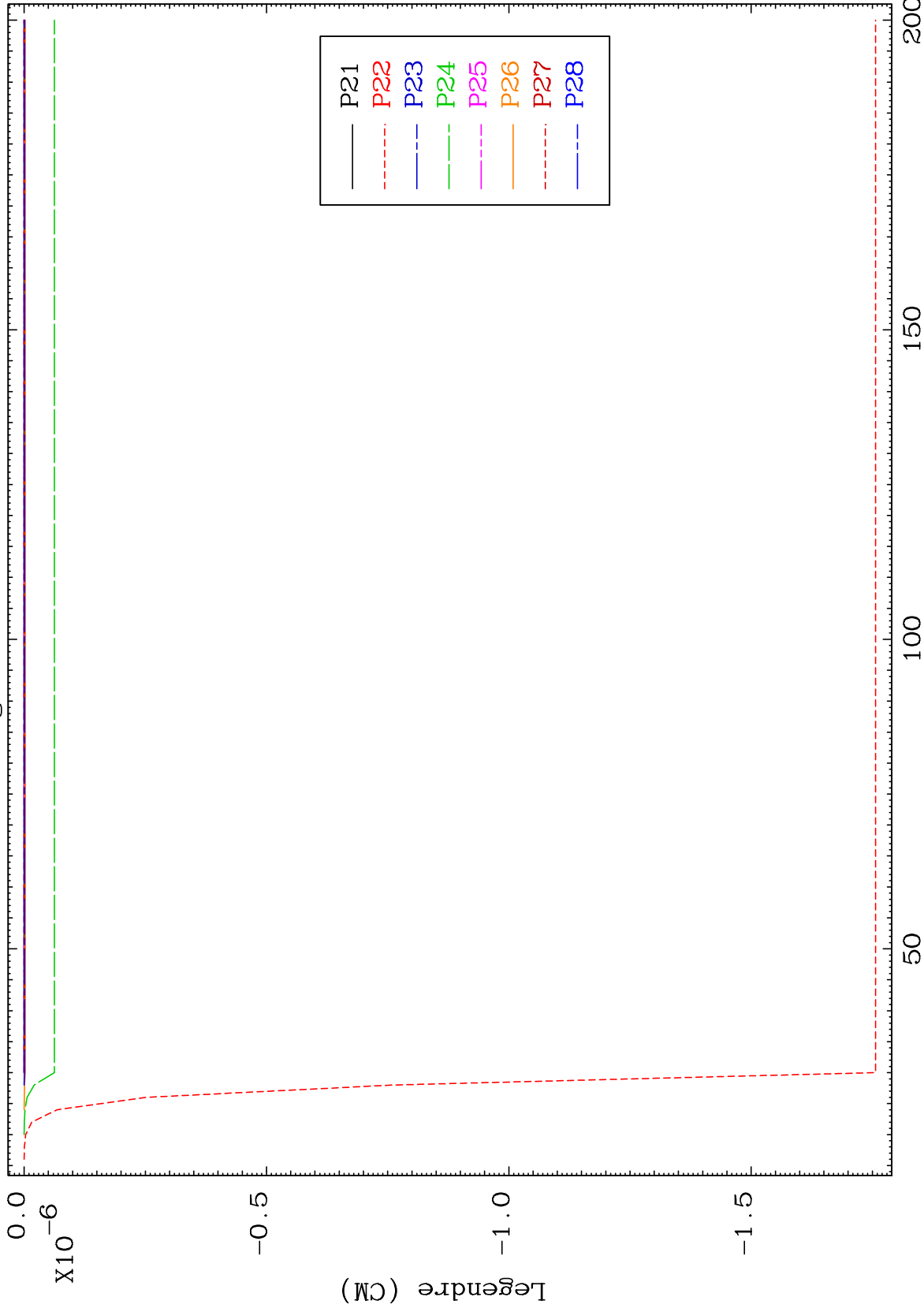
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



86

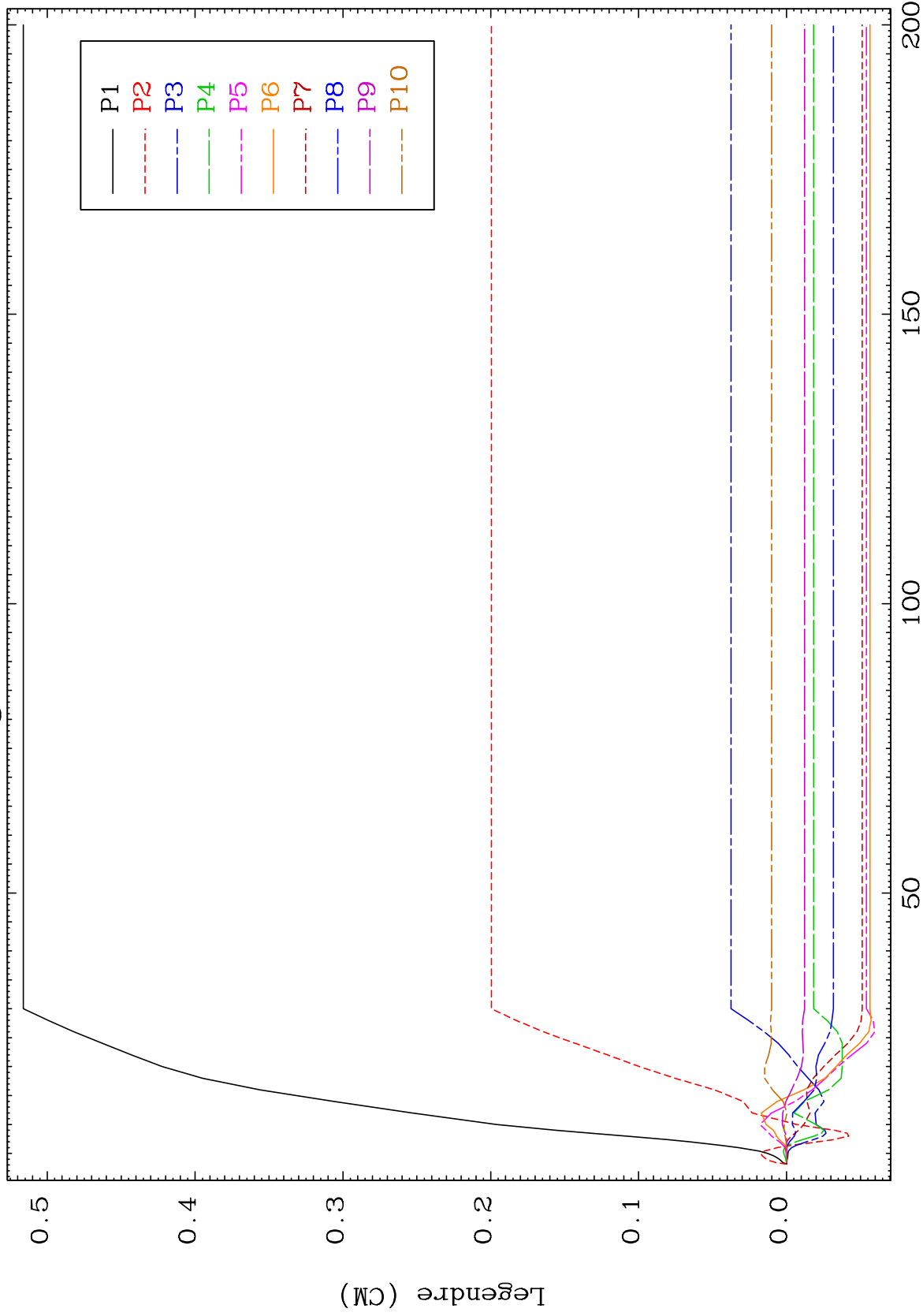
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



87

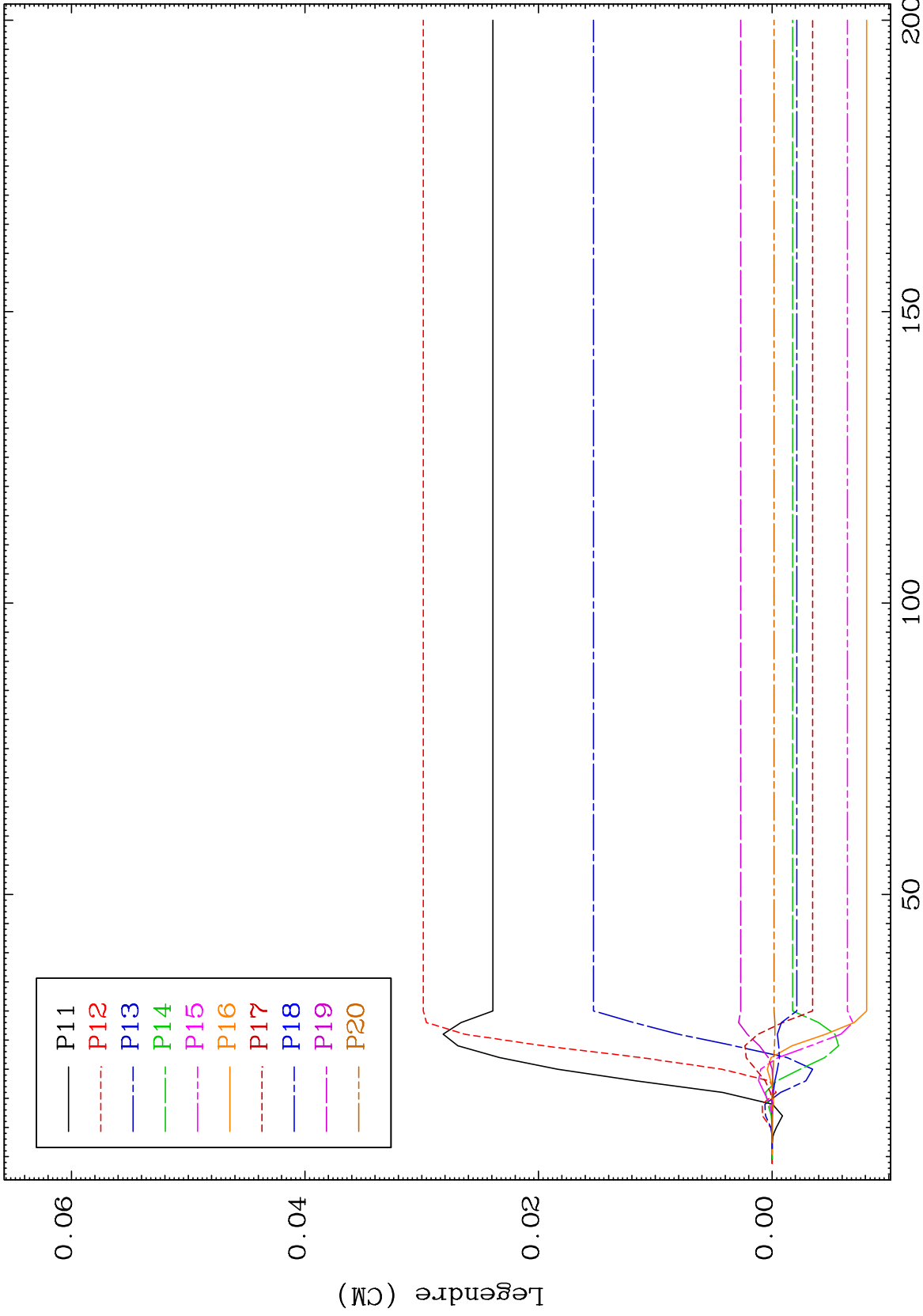
83-Bi-209



MAT 8325

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

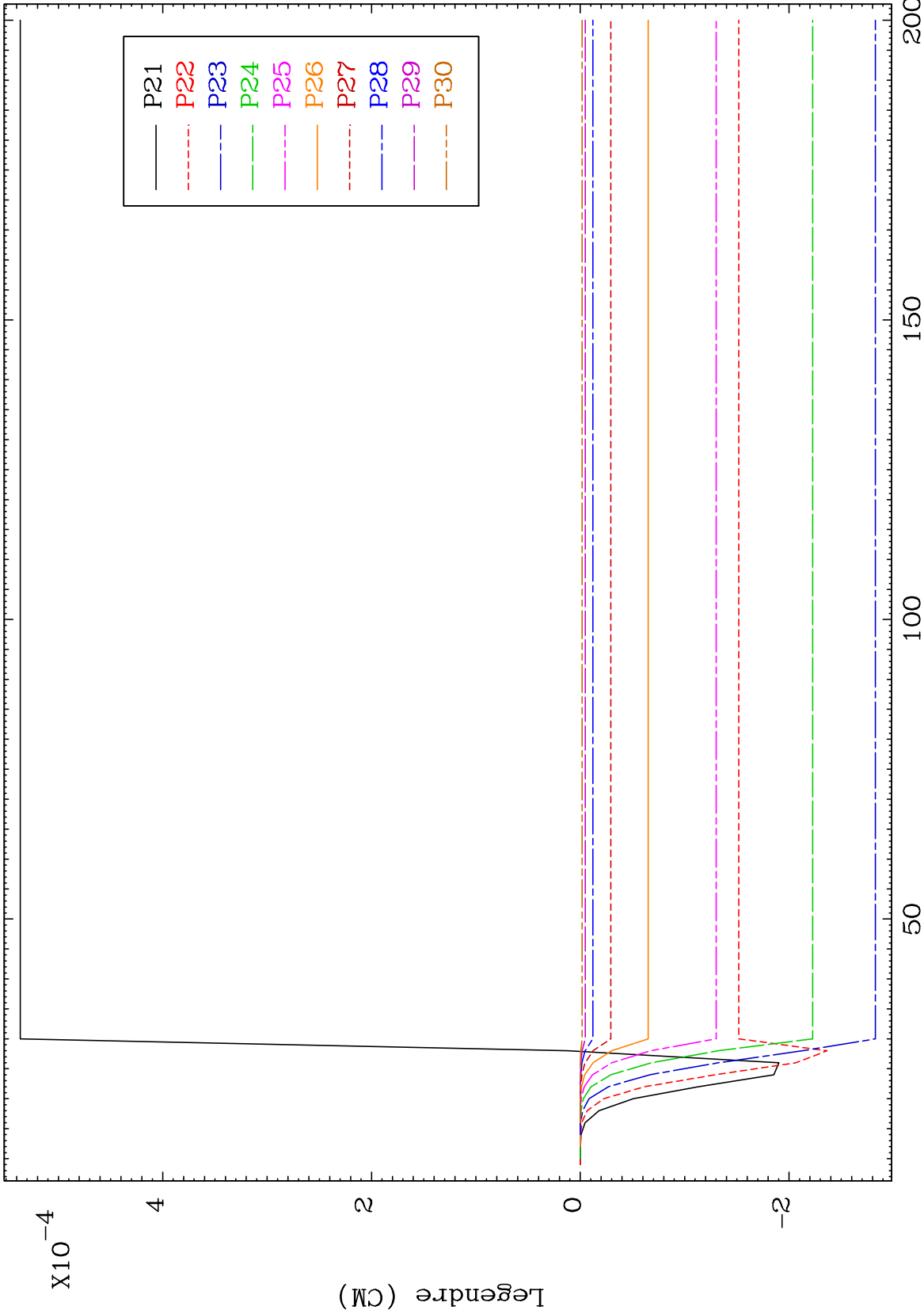
83-Bi-209



MAT 8325

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

83-Bi-209



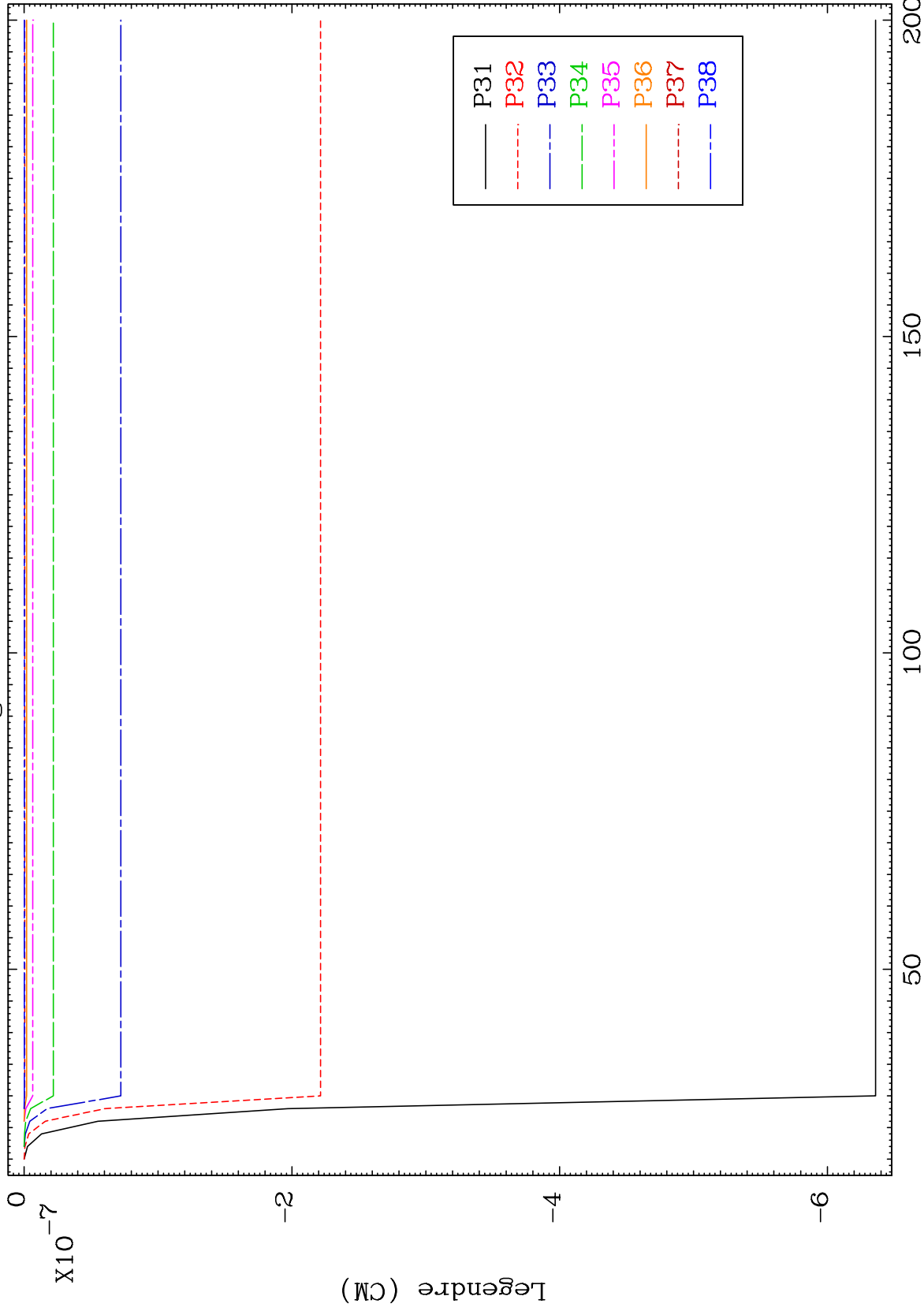
89

83-Bi-209

MAT 8325

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

83-Bi-209



83-Bi-209

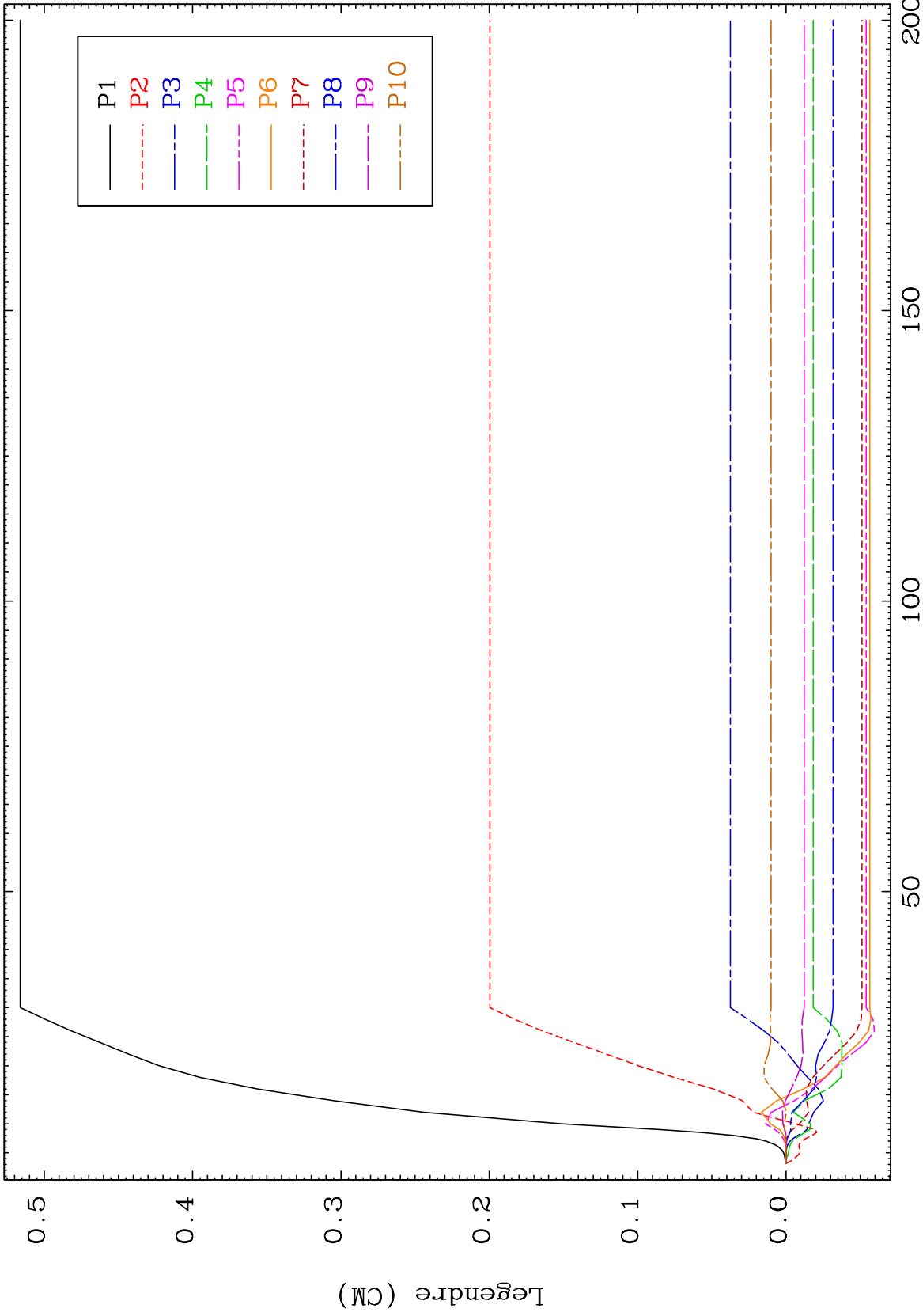
Incident Energy (MeV)

90

MAT 8325

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

83-Bi-209



91

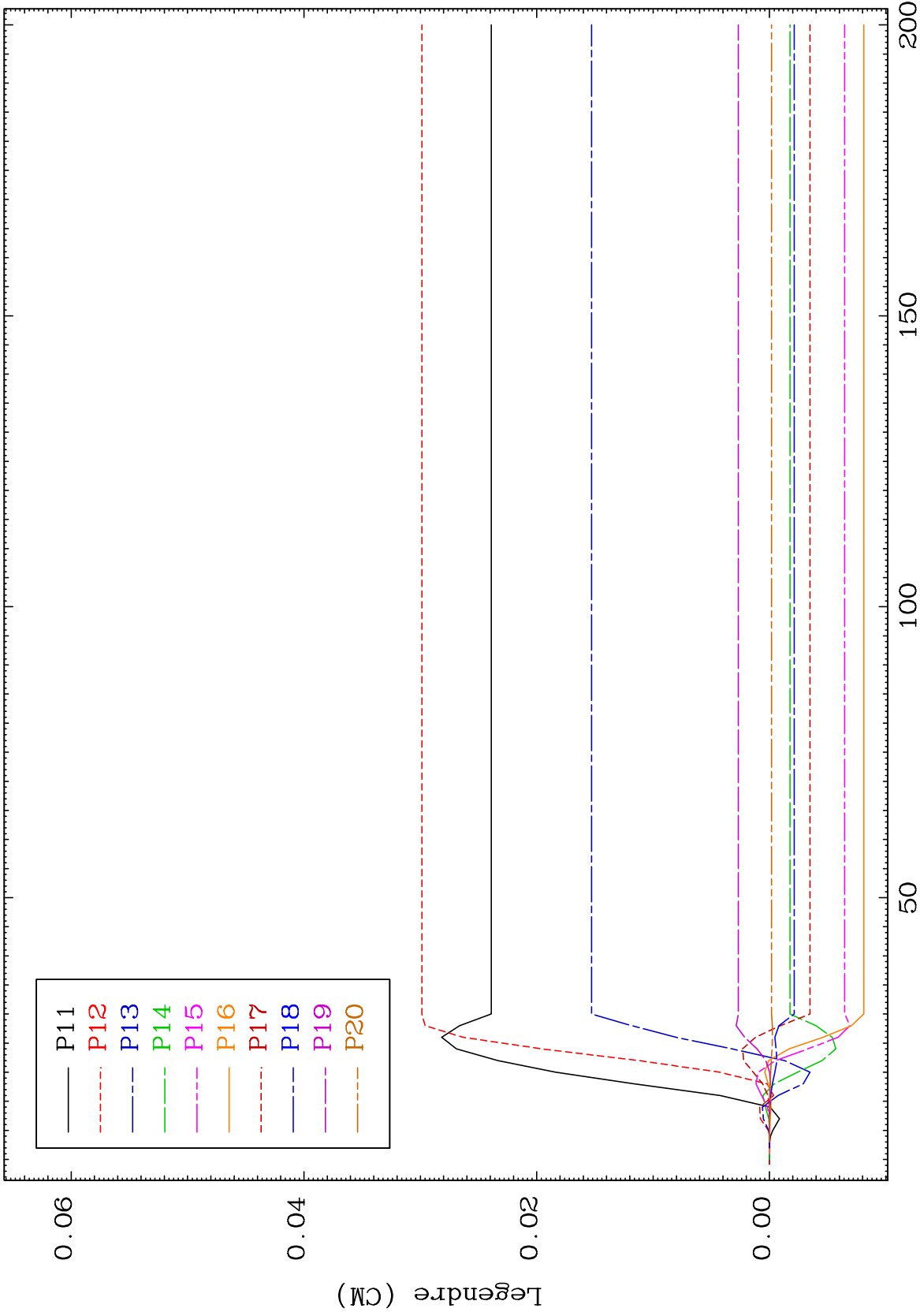
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



92

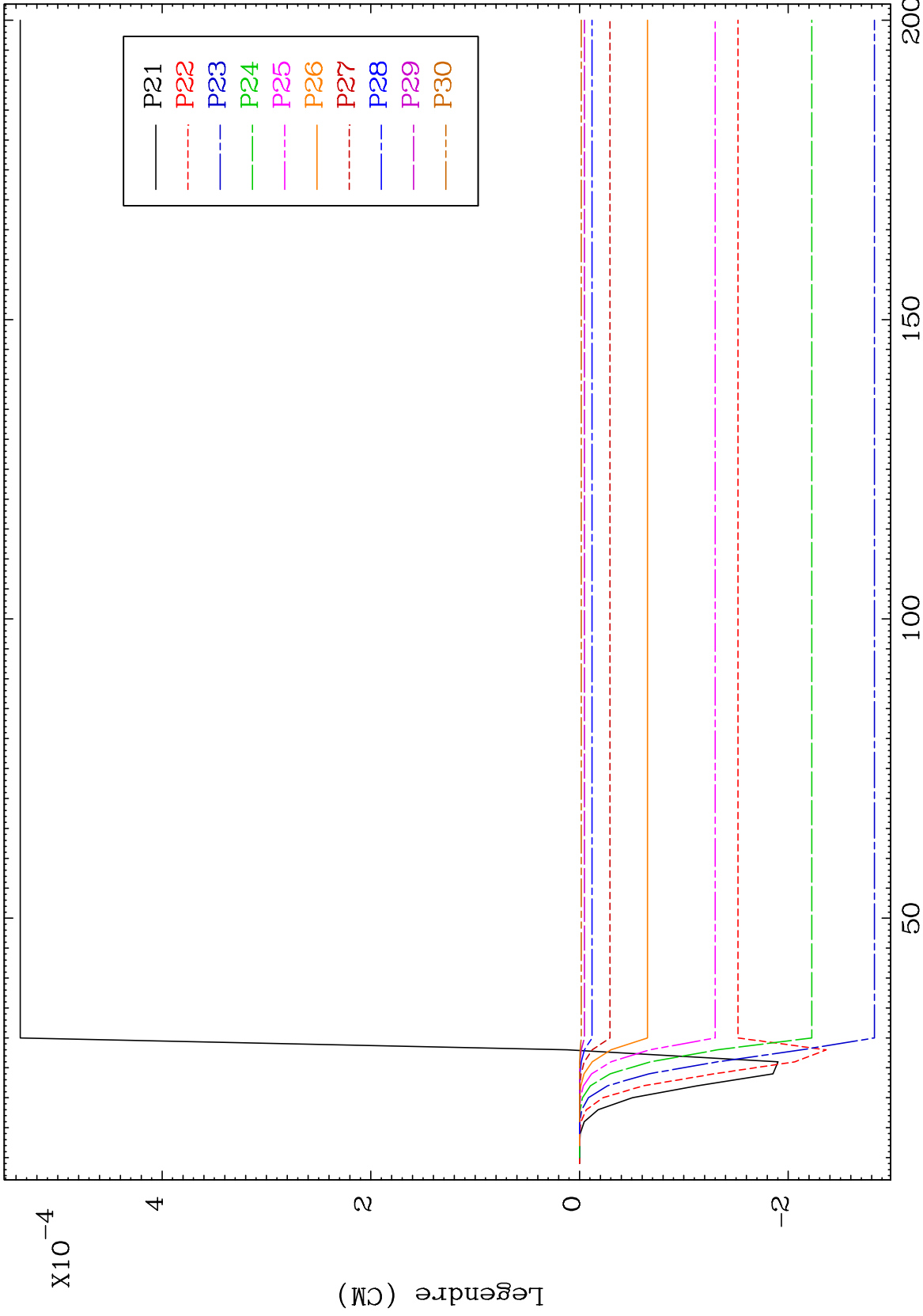
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



93

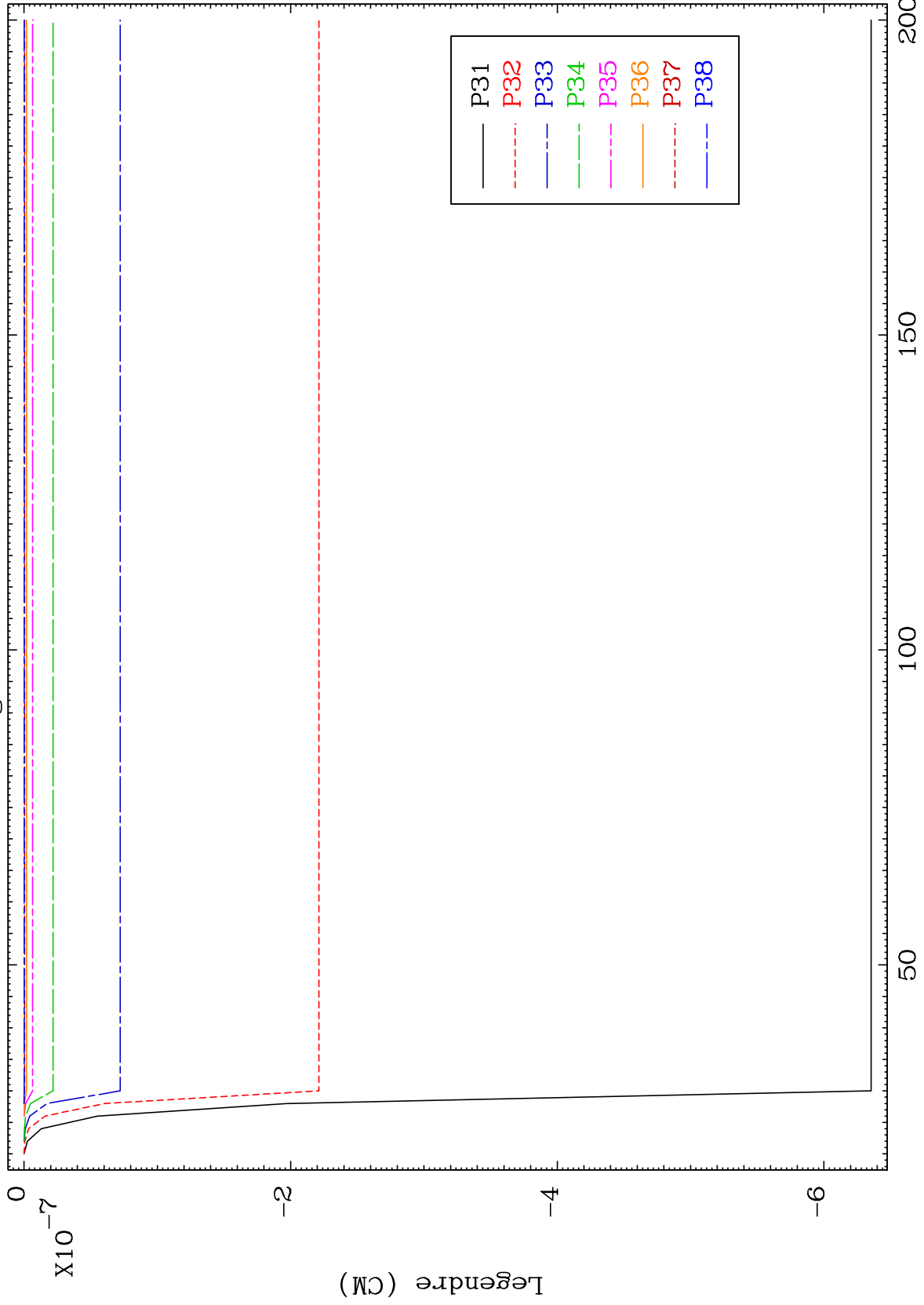
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



83-Bi-209

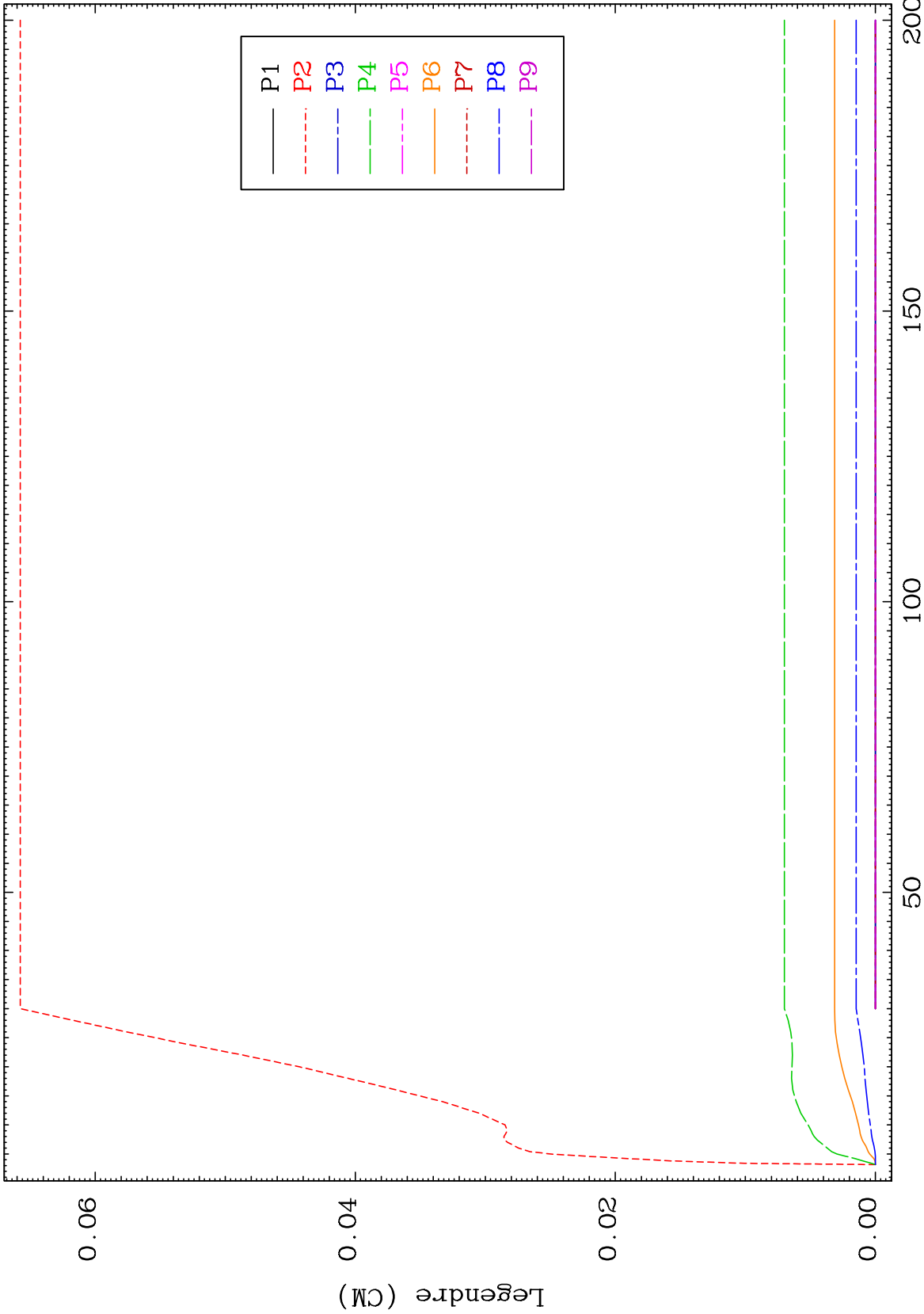
Incident Energy (MeV)

94

MAT 8325

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

83-Bi-209



95

Incident Energy (MeV)

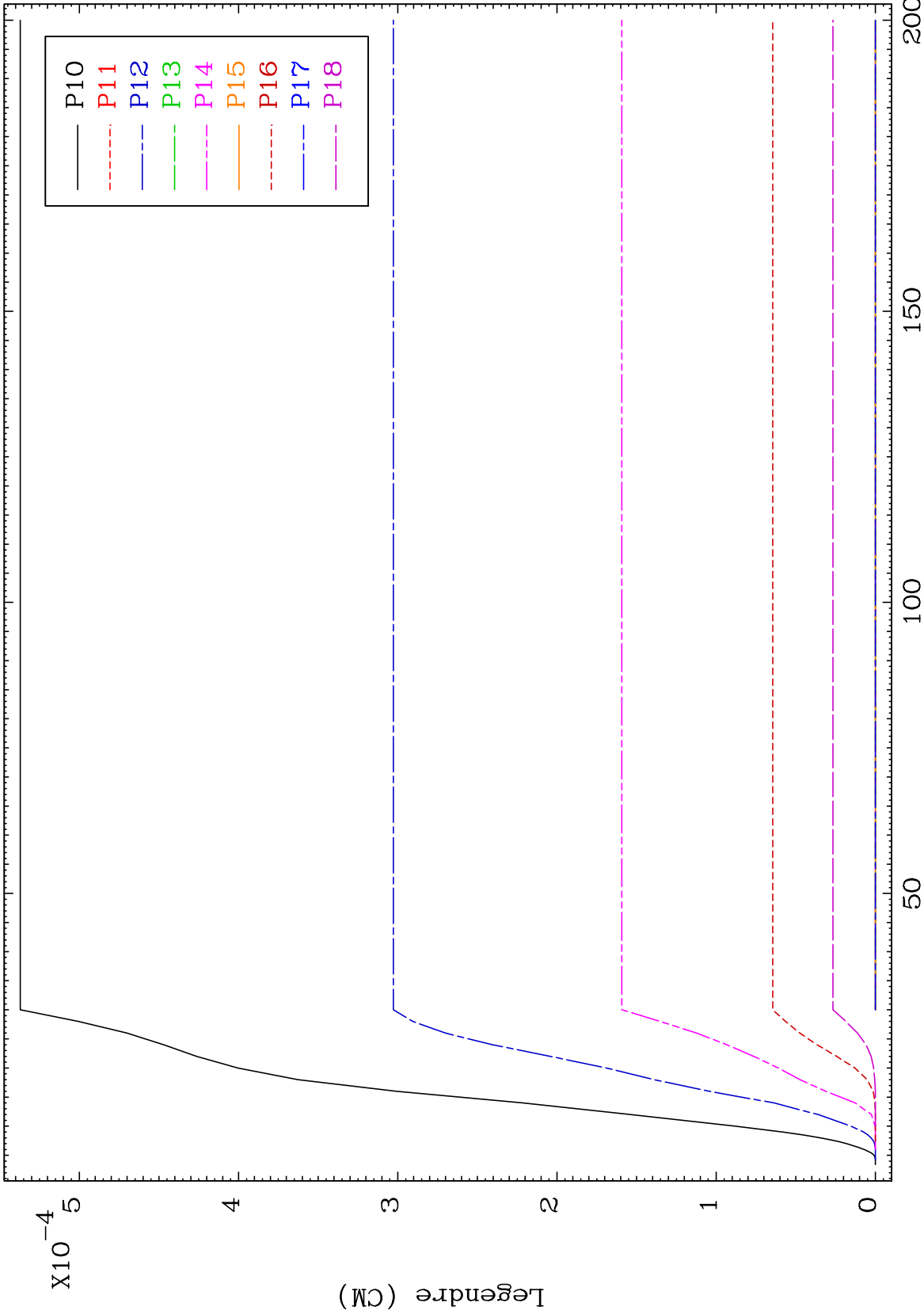
83-Bi-209



MAT 8325

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

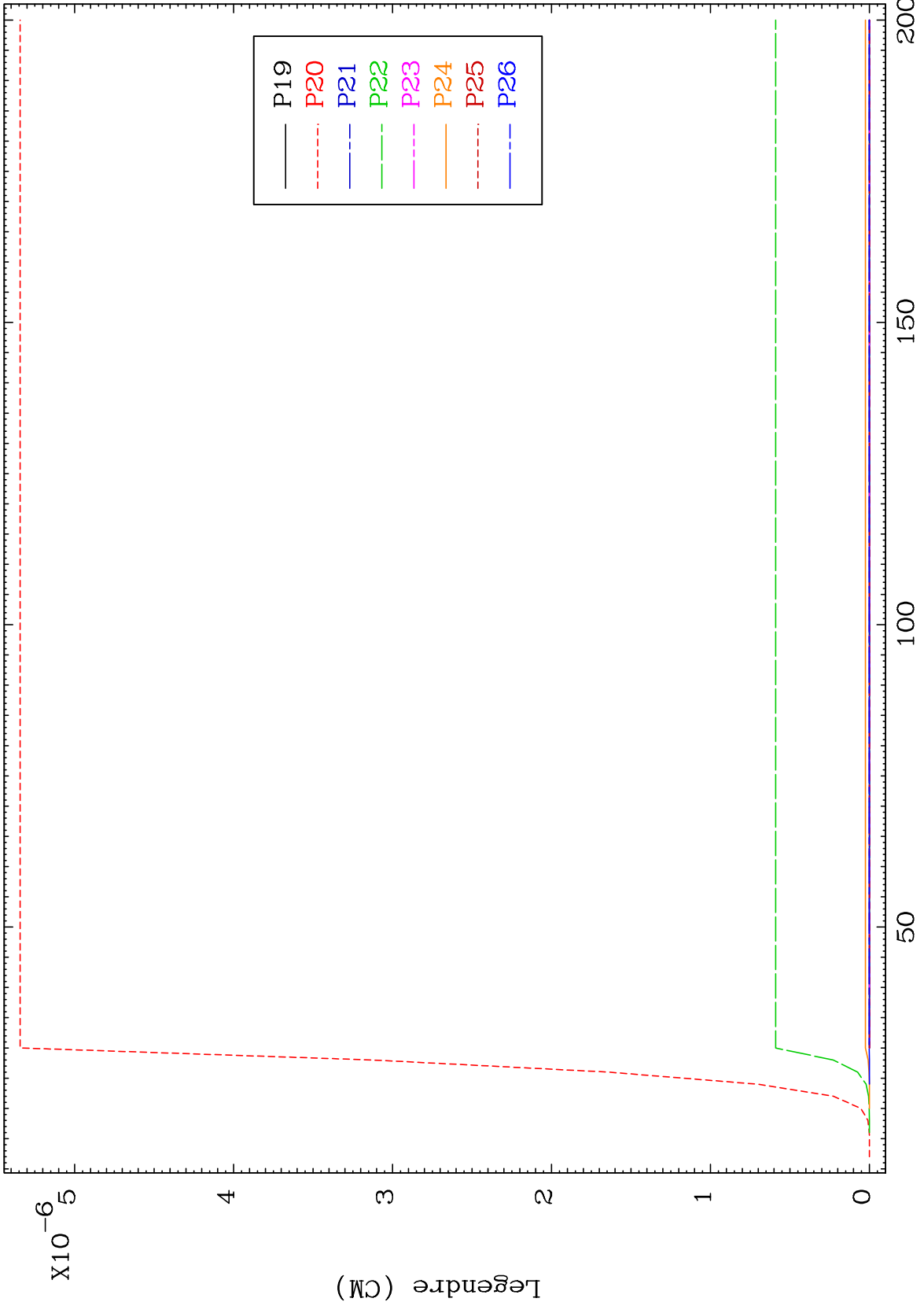
83-Bi-209



96

83-Bi-209

MAT 8325 MT= 72 (n,n') Level Legendre Coefficients 83-Bi-209

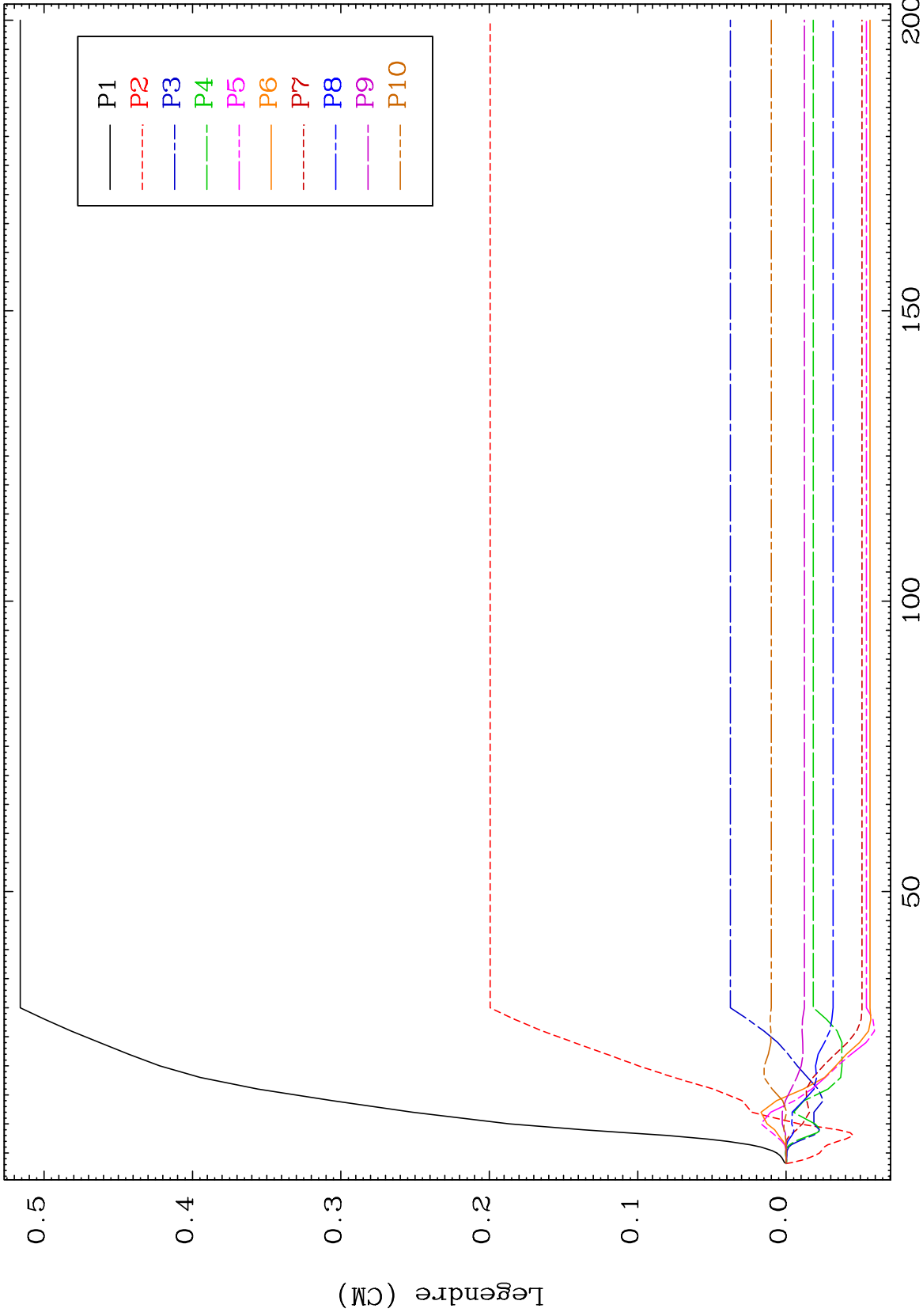


97 83-Bi-209

MAT 8325

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

83-Bi-209



98

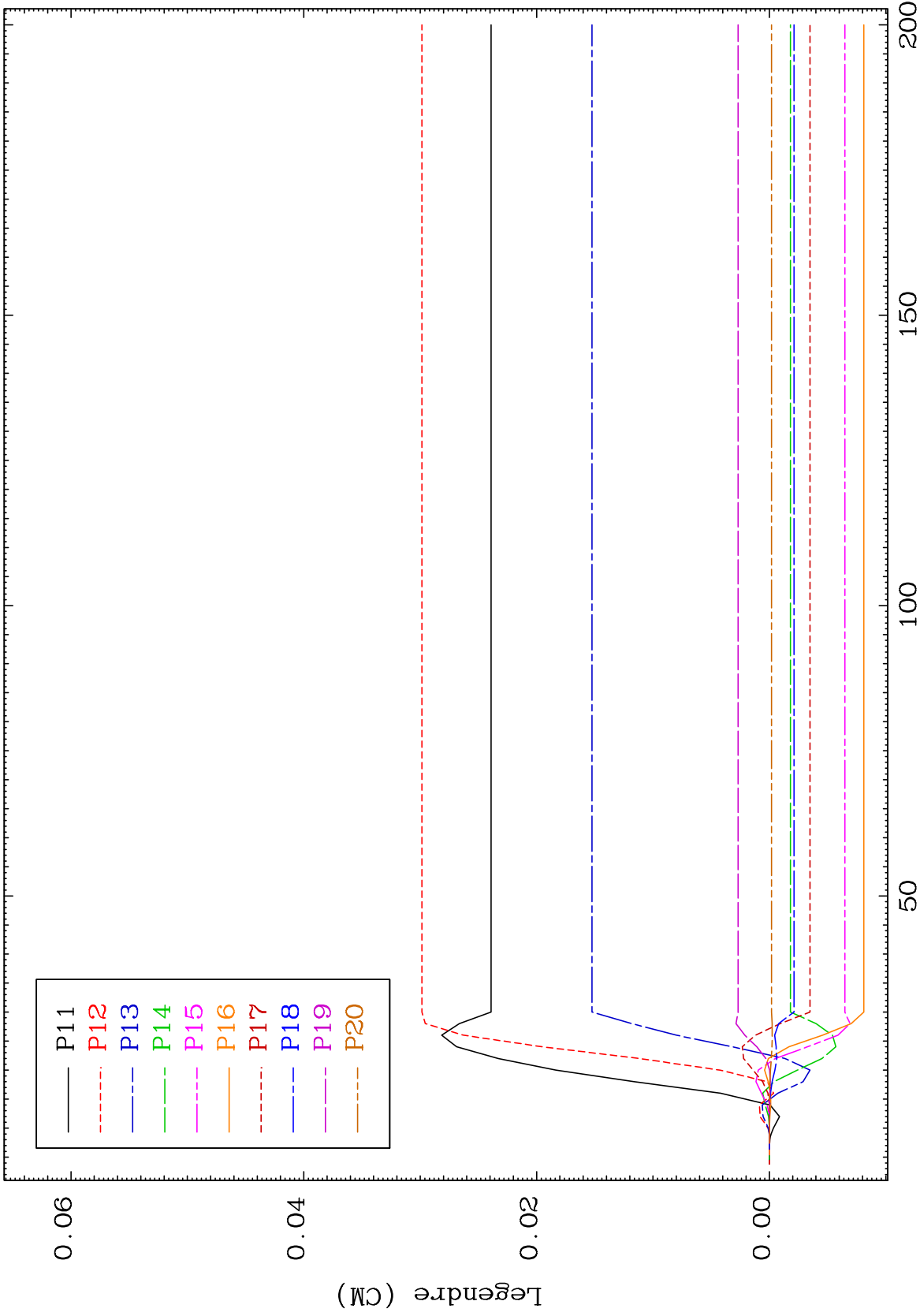
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



99

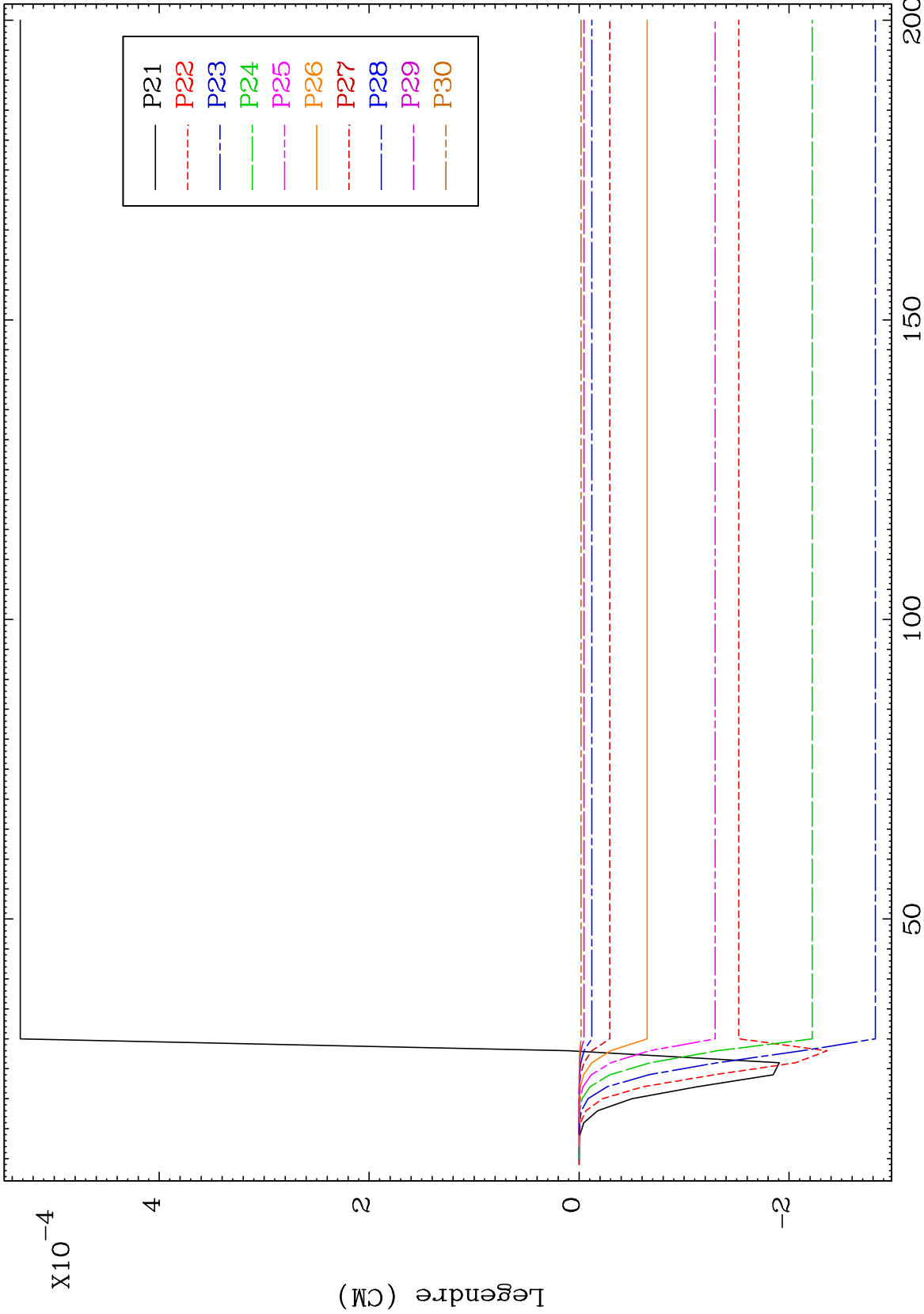
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



83-Bi-209

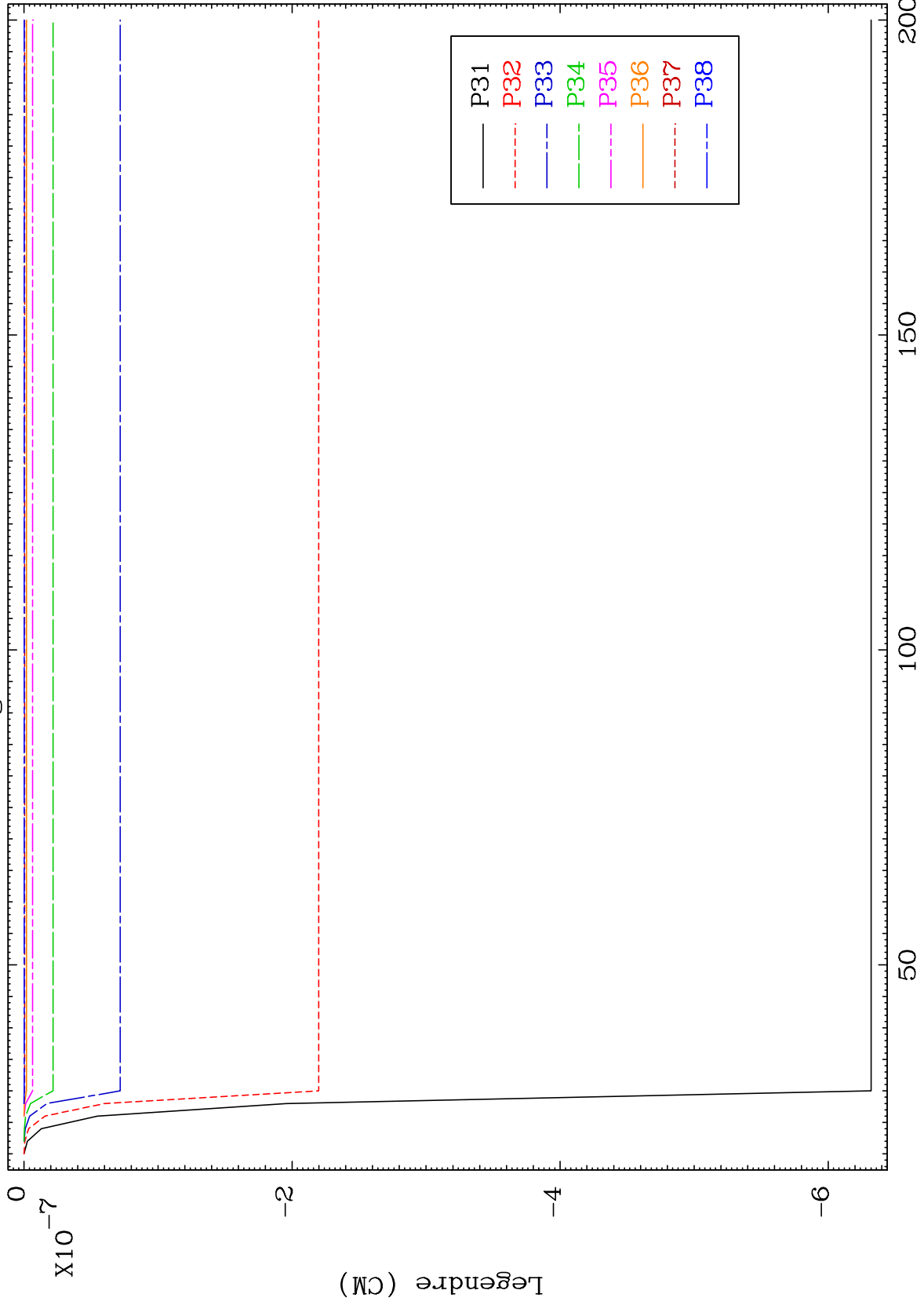
Incident Energy (MeV)

100

MAT 8325

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

83-Bi-209



83-Bi-209

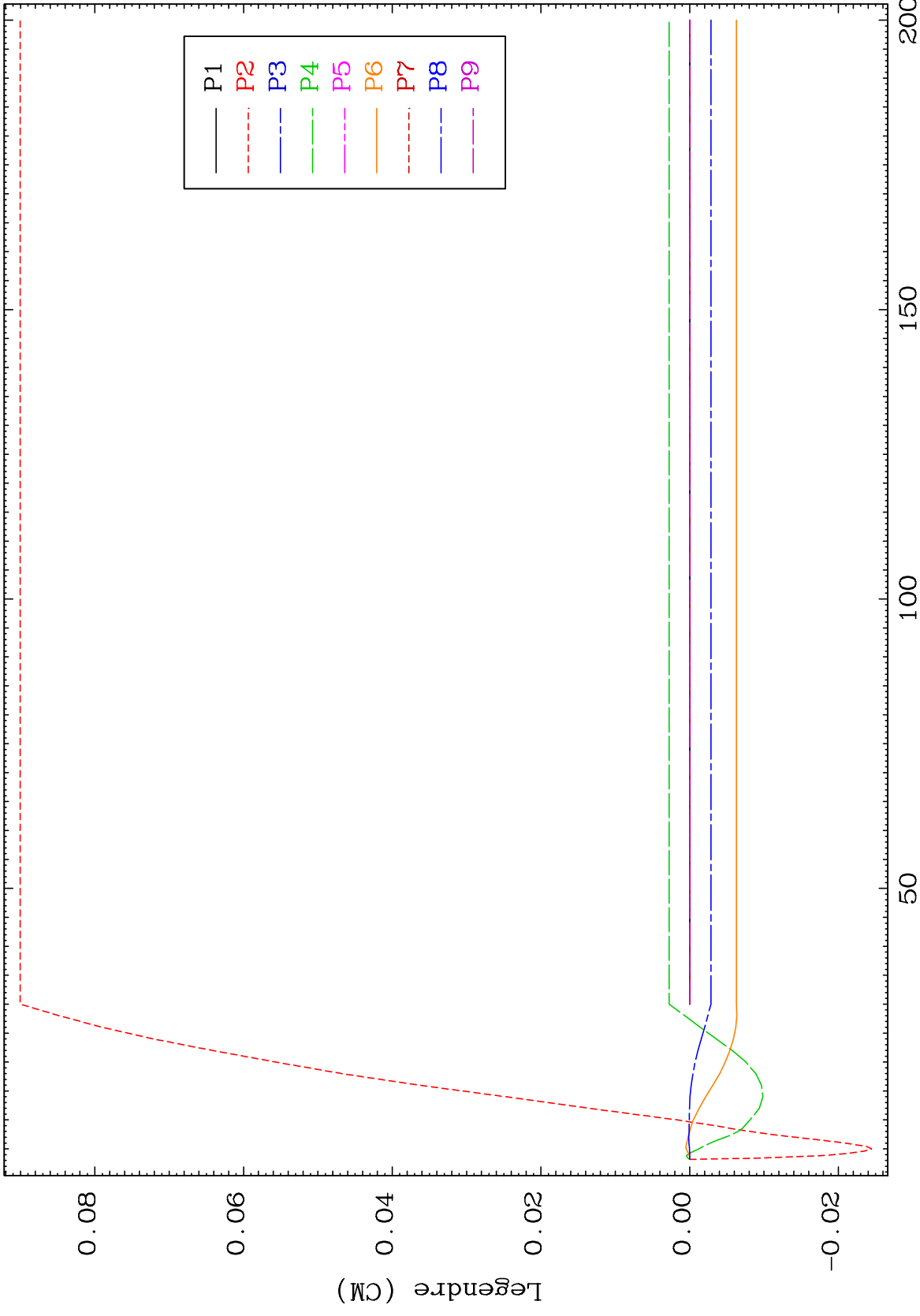
Incident Energy (MeV)

101

MAT 8325

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

83-Bi-209



102

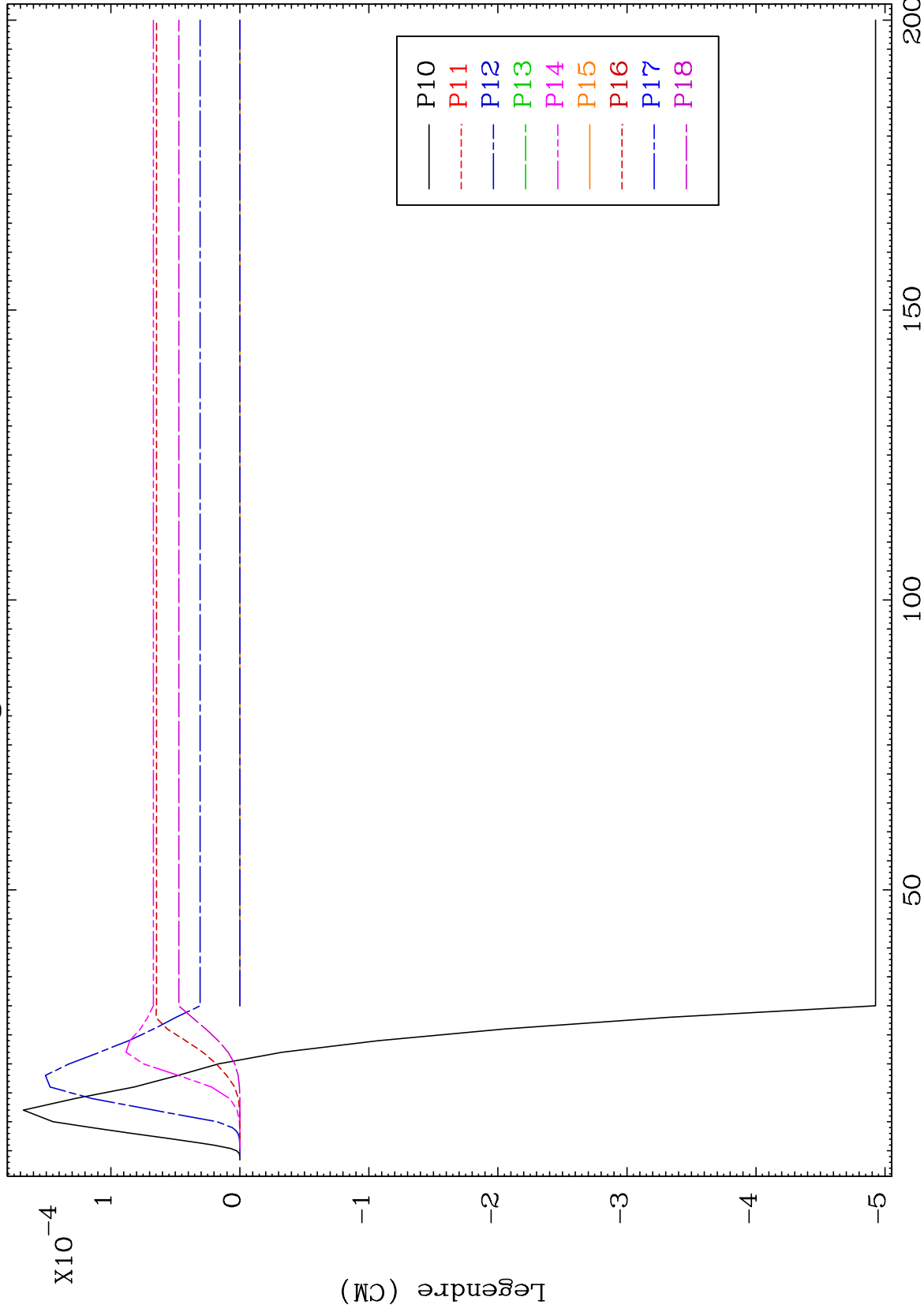
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



103

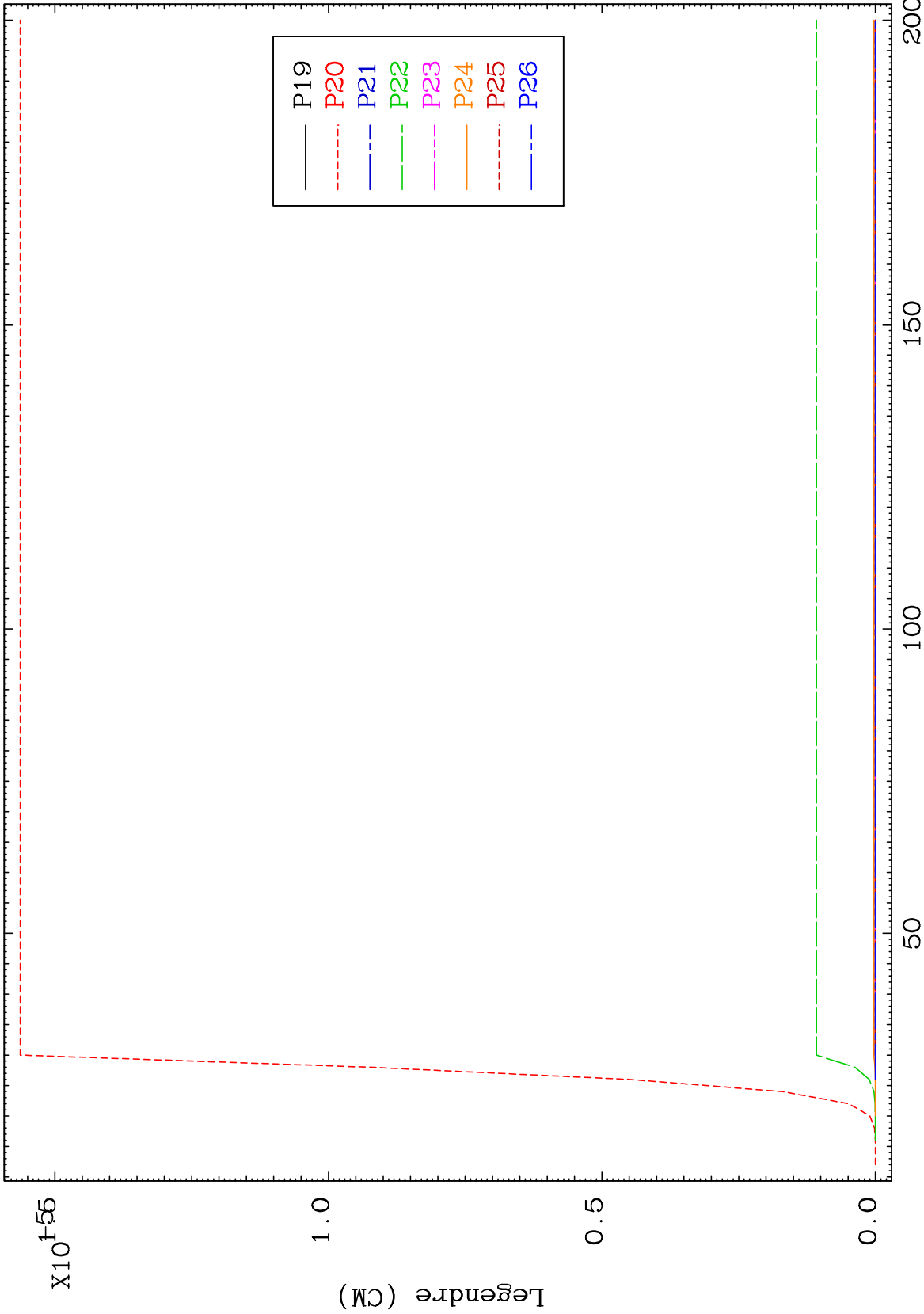
83-Bi-209



MAT 8325

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

83-Bi-209



83-Bi-209

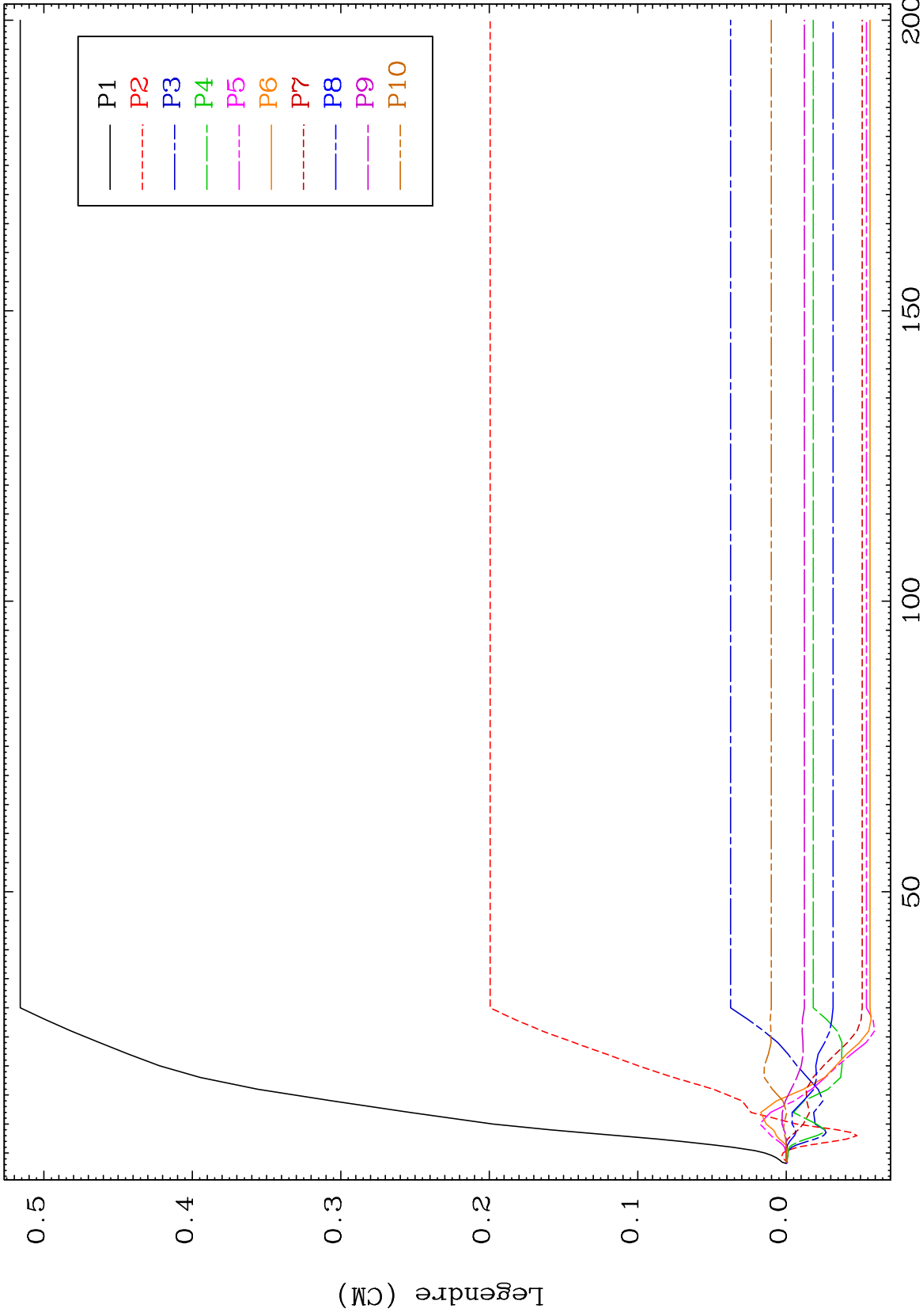
Incident Energy (MeV)

104

MAT 8325

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

83-Bi-209



105

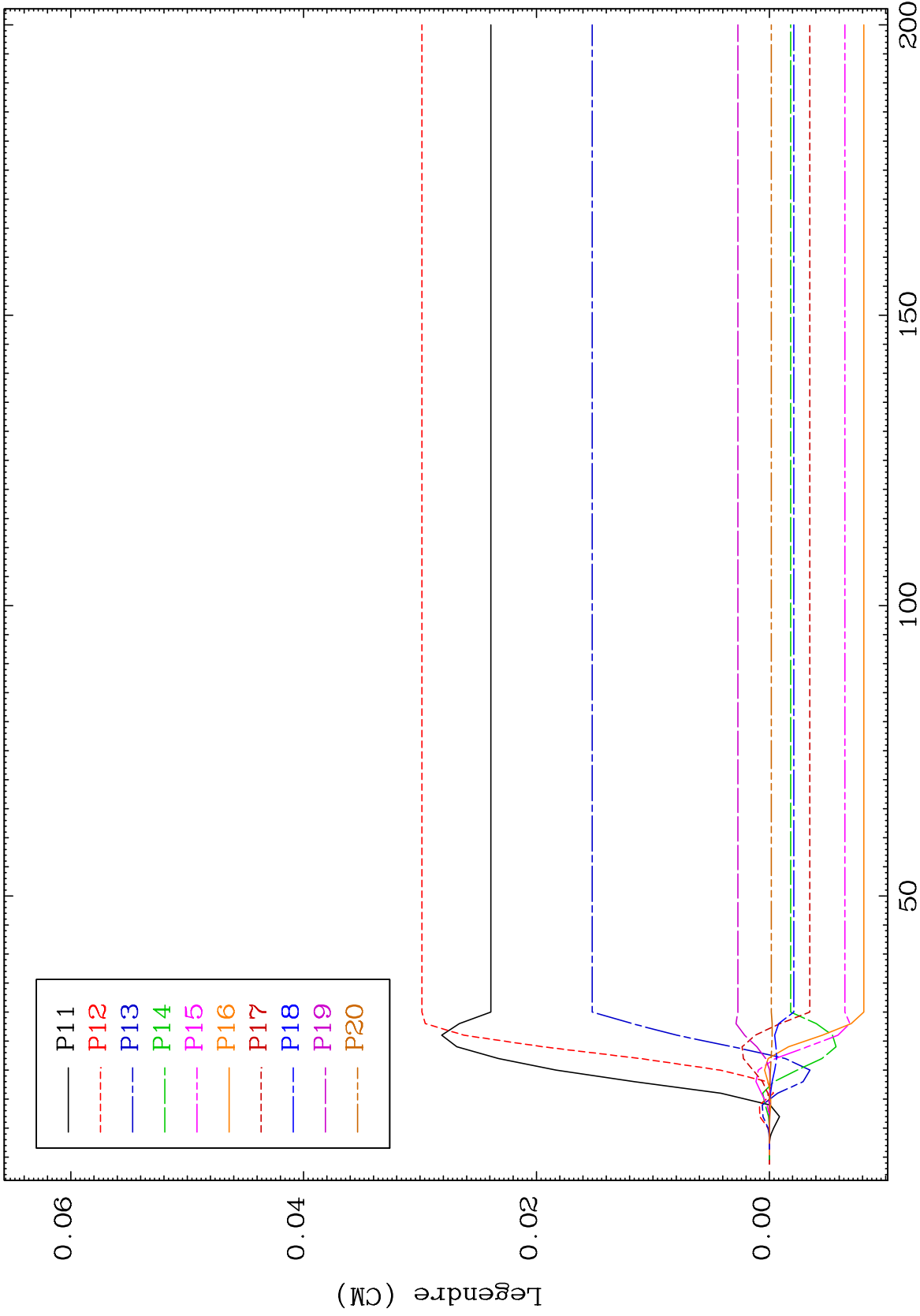
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



106

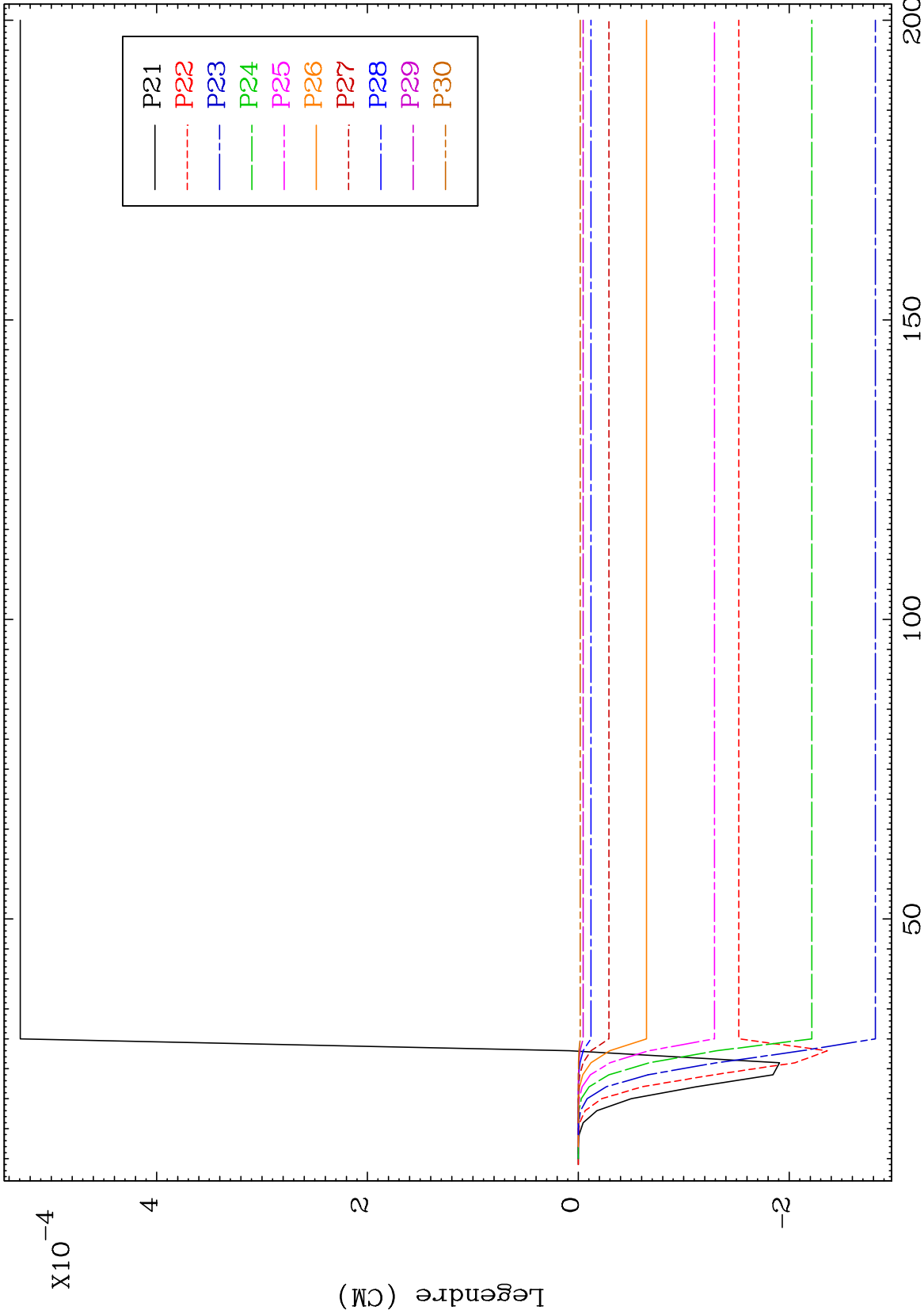
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



107

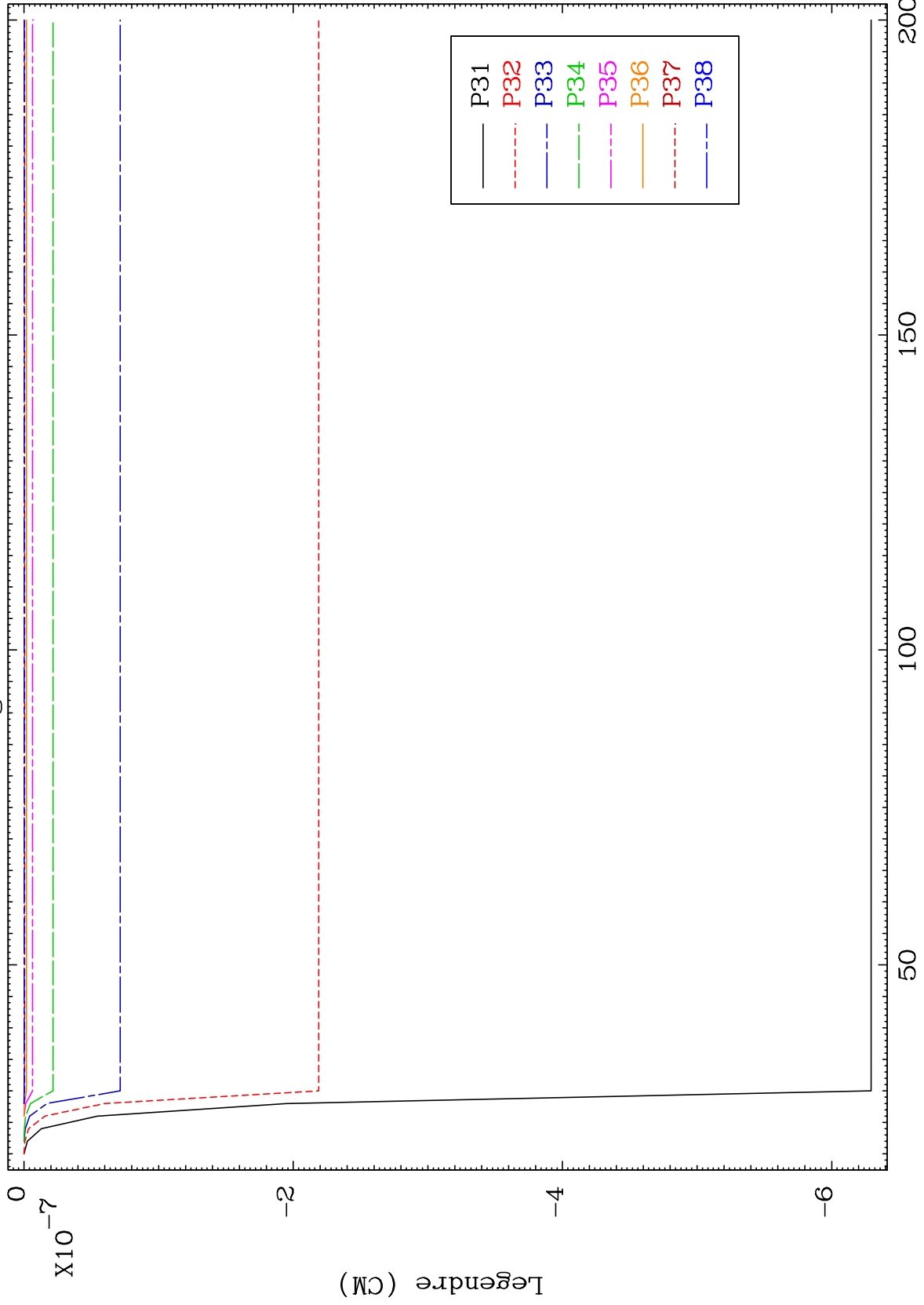
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



83-Bi-209

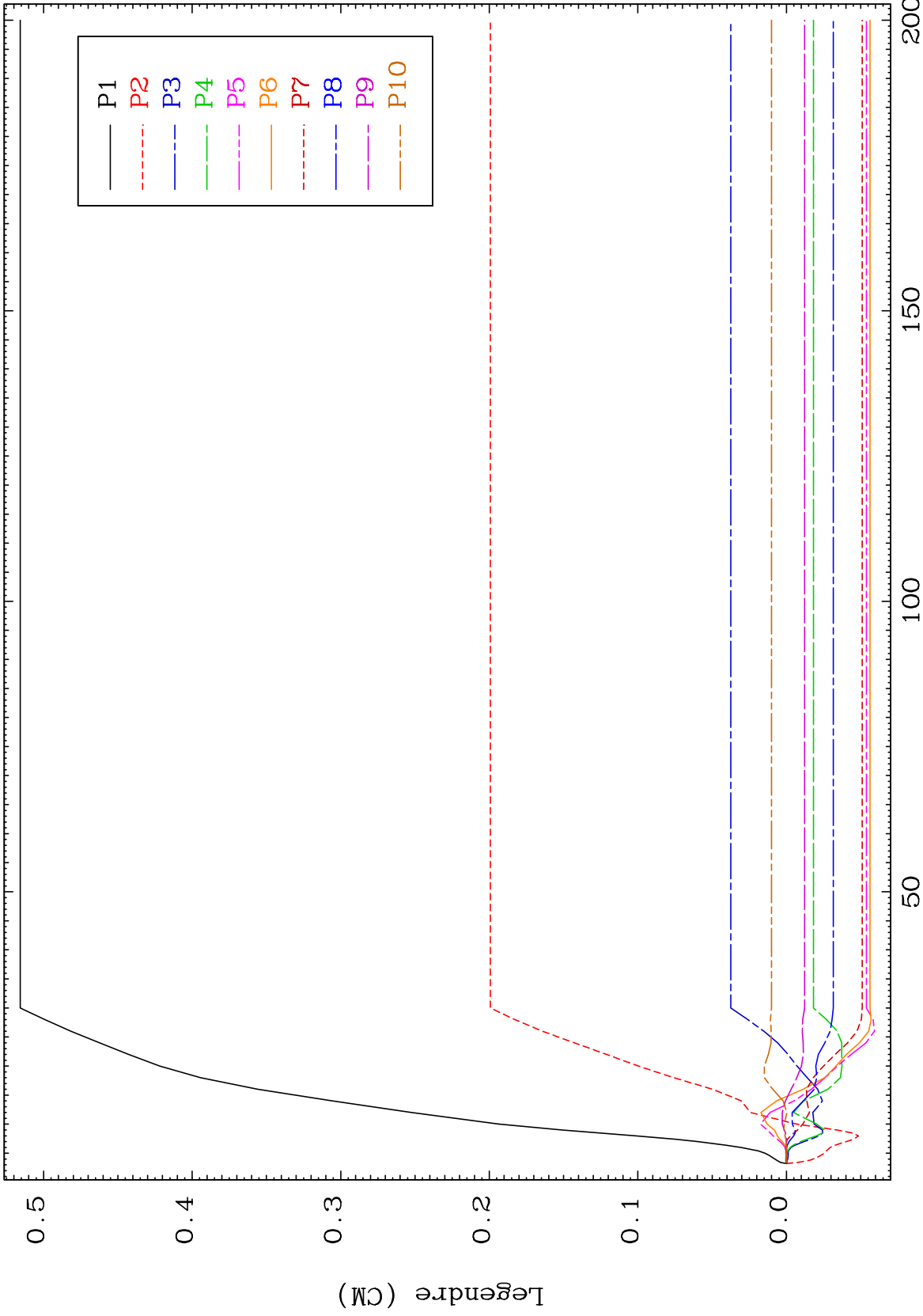
Incident Energy (MeV)

108

MAT 8325

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

83-Bi-209



109

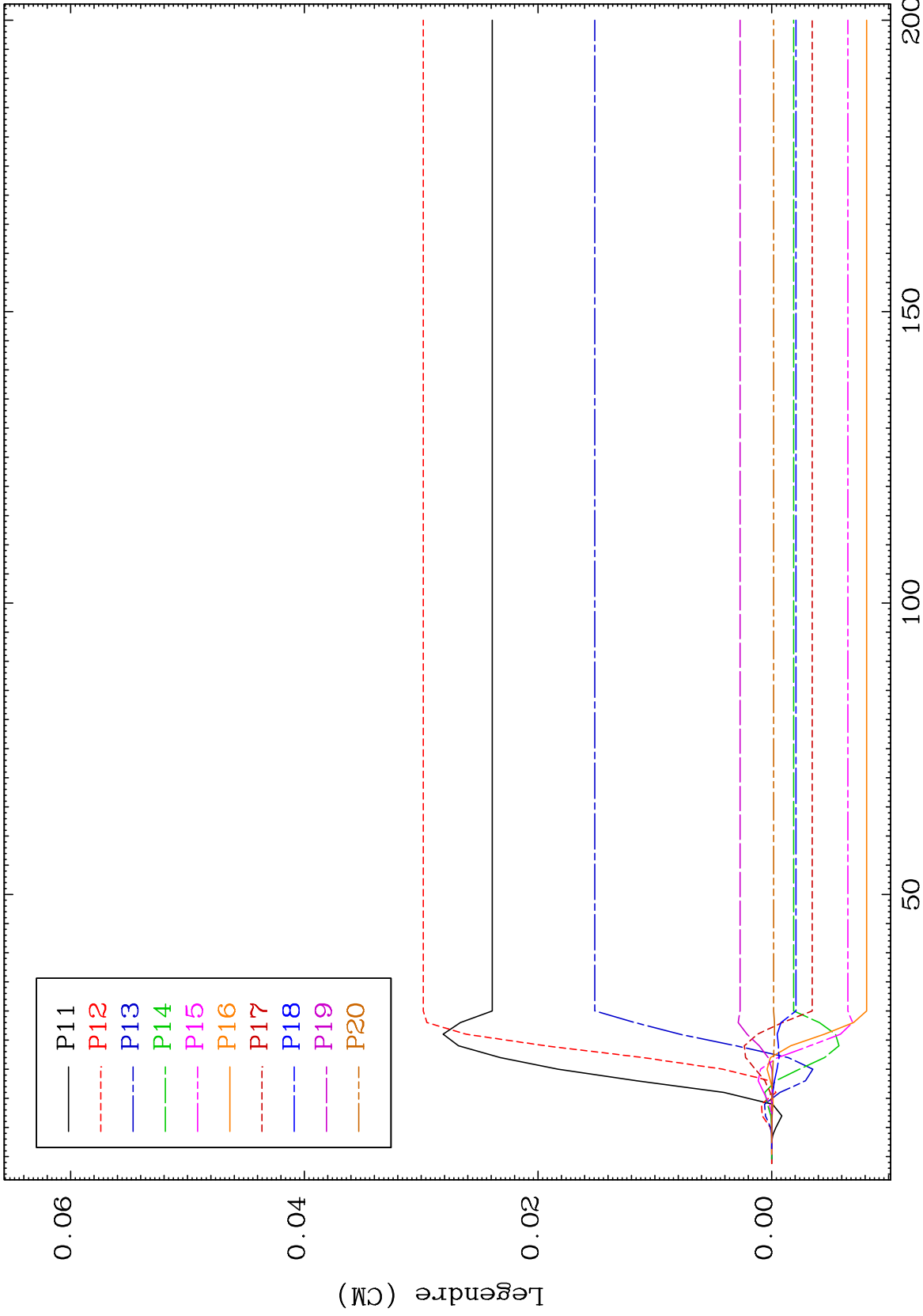
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



110

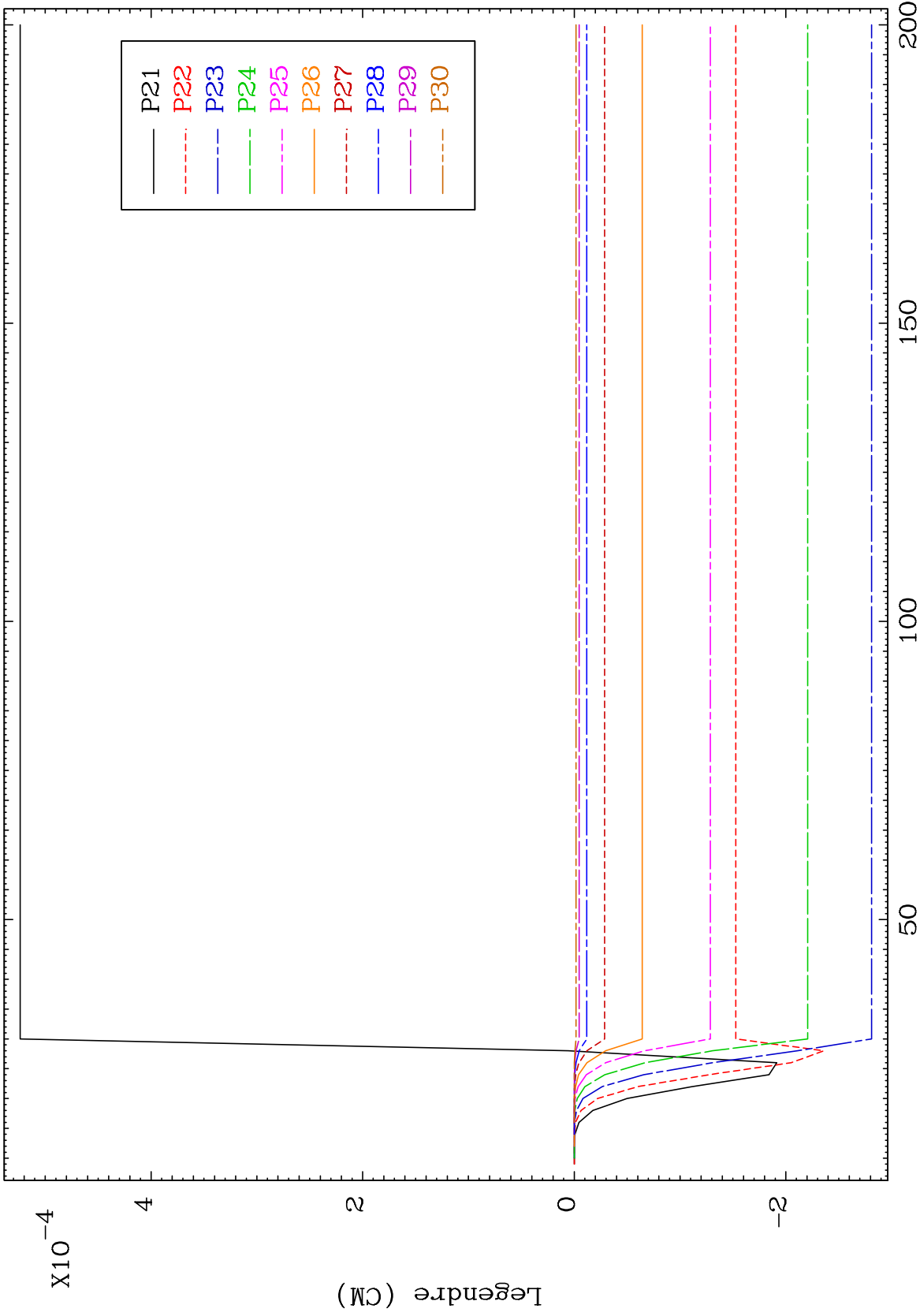
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209

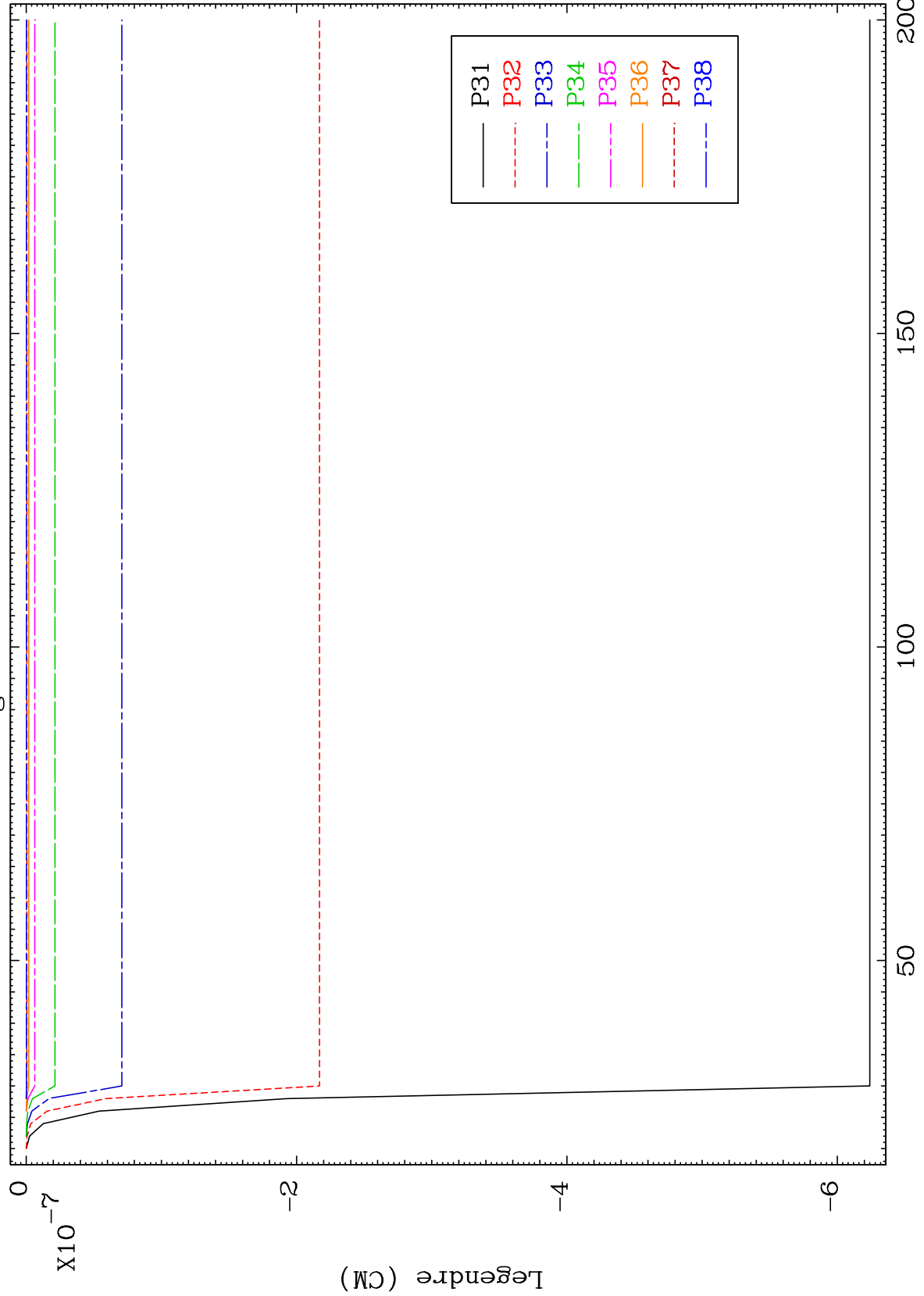


111

Incident Energy (MeV)

83-Bi-209

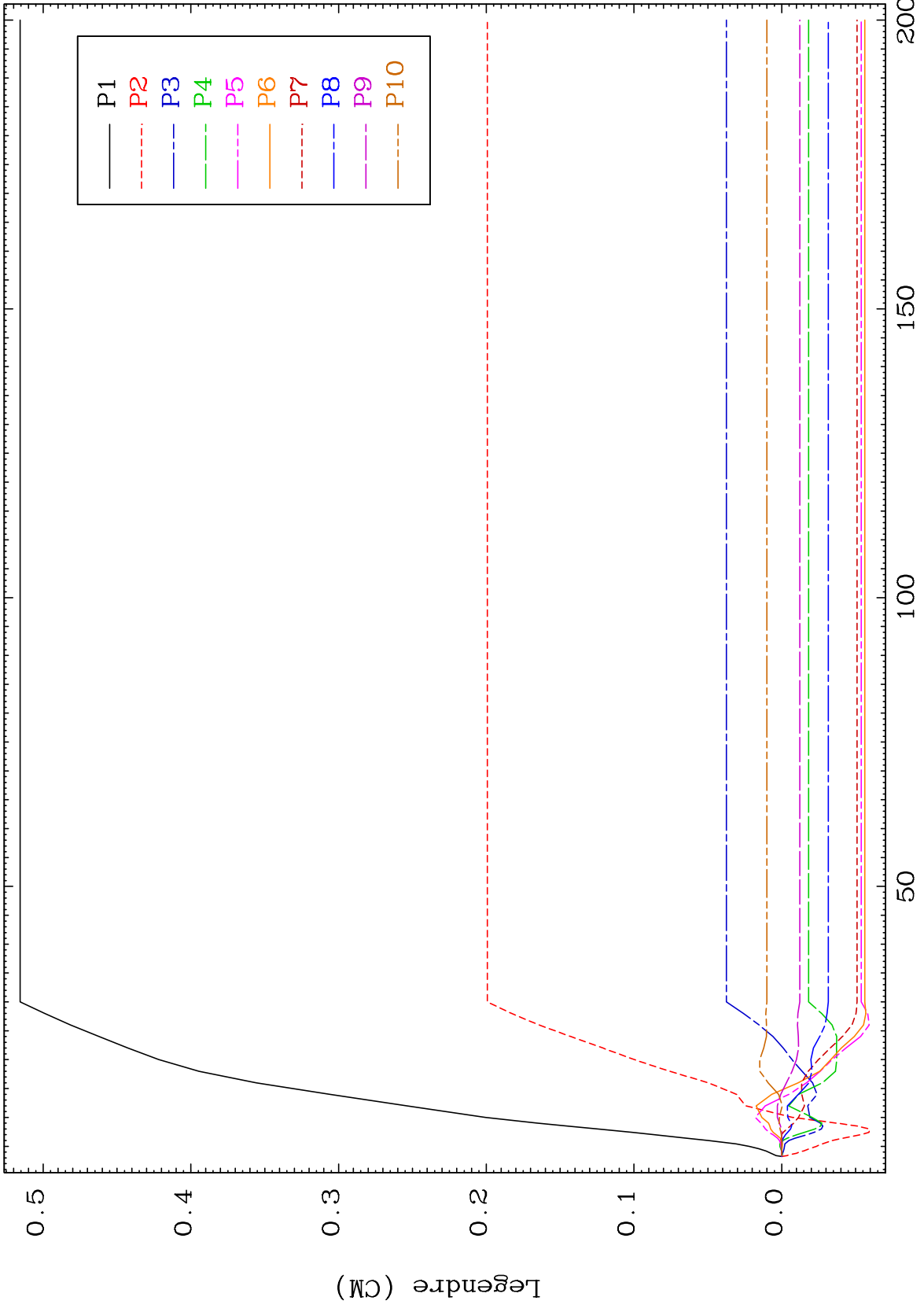




MAT 8325

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

83-Bi-209



113

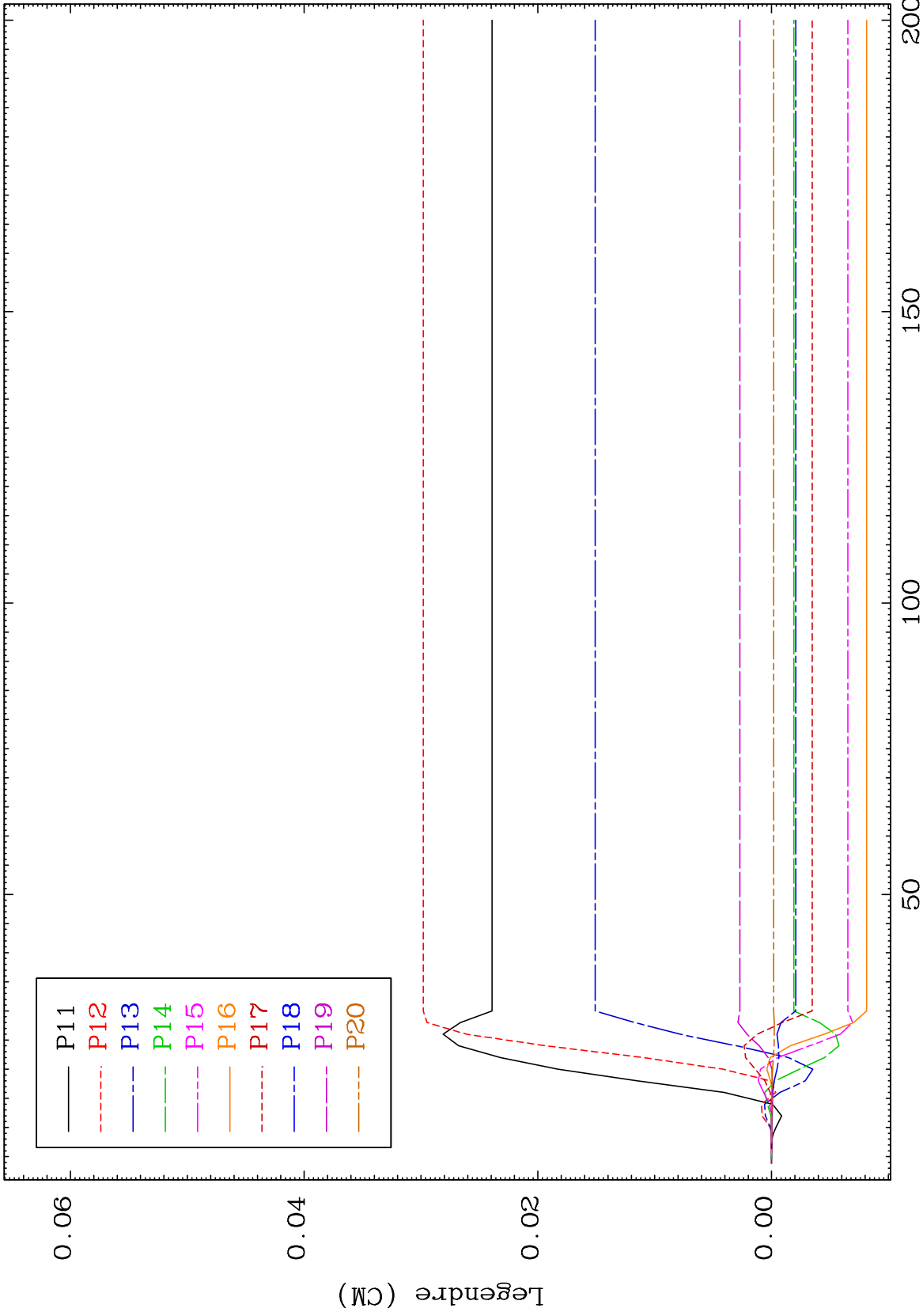
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



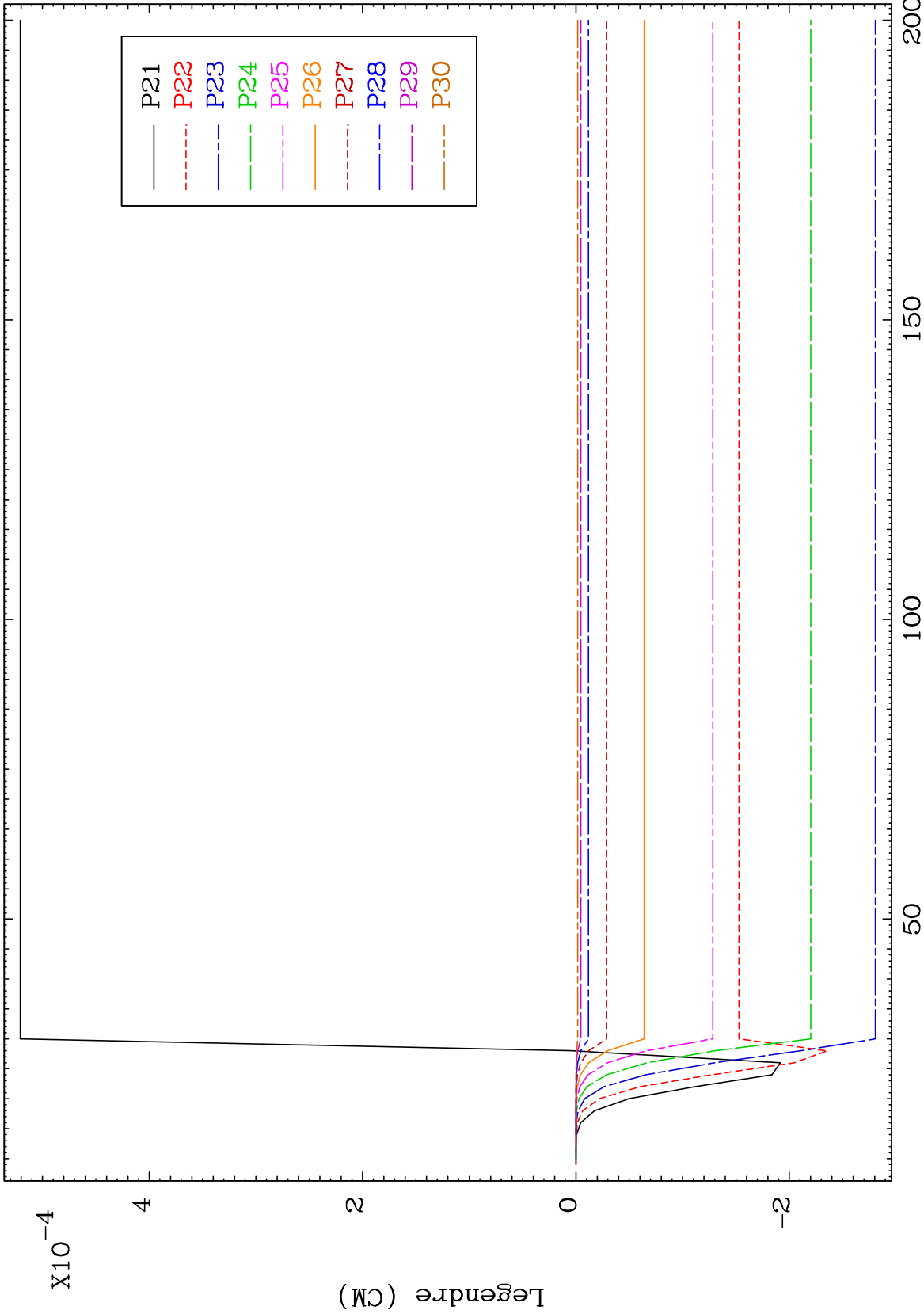
114

83-Bi-209

MAT 8325

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

83-Bi-209



115

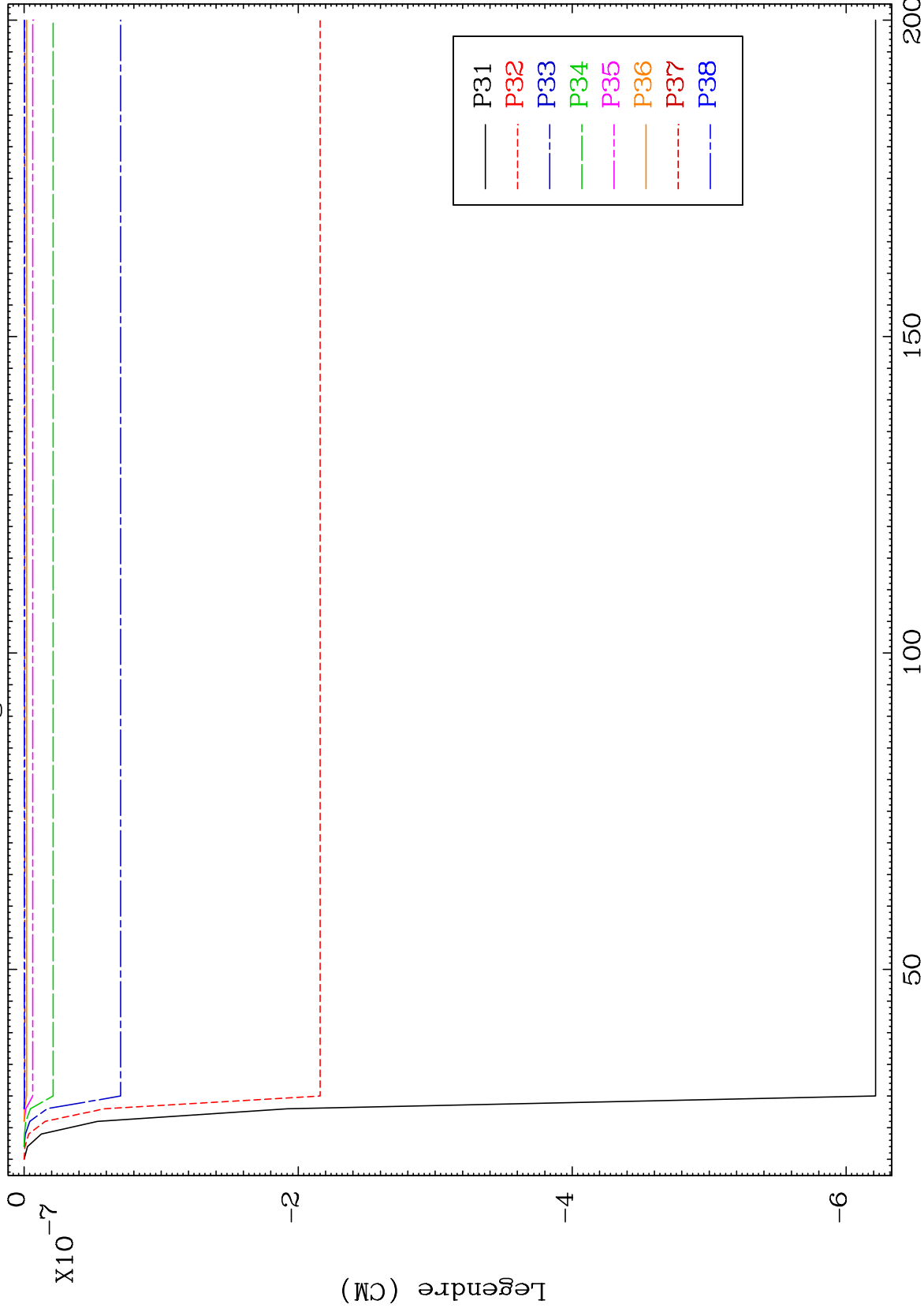
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



116

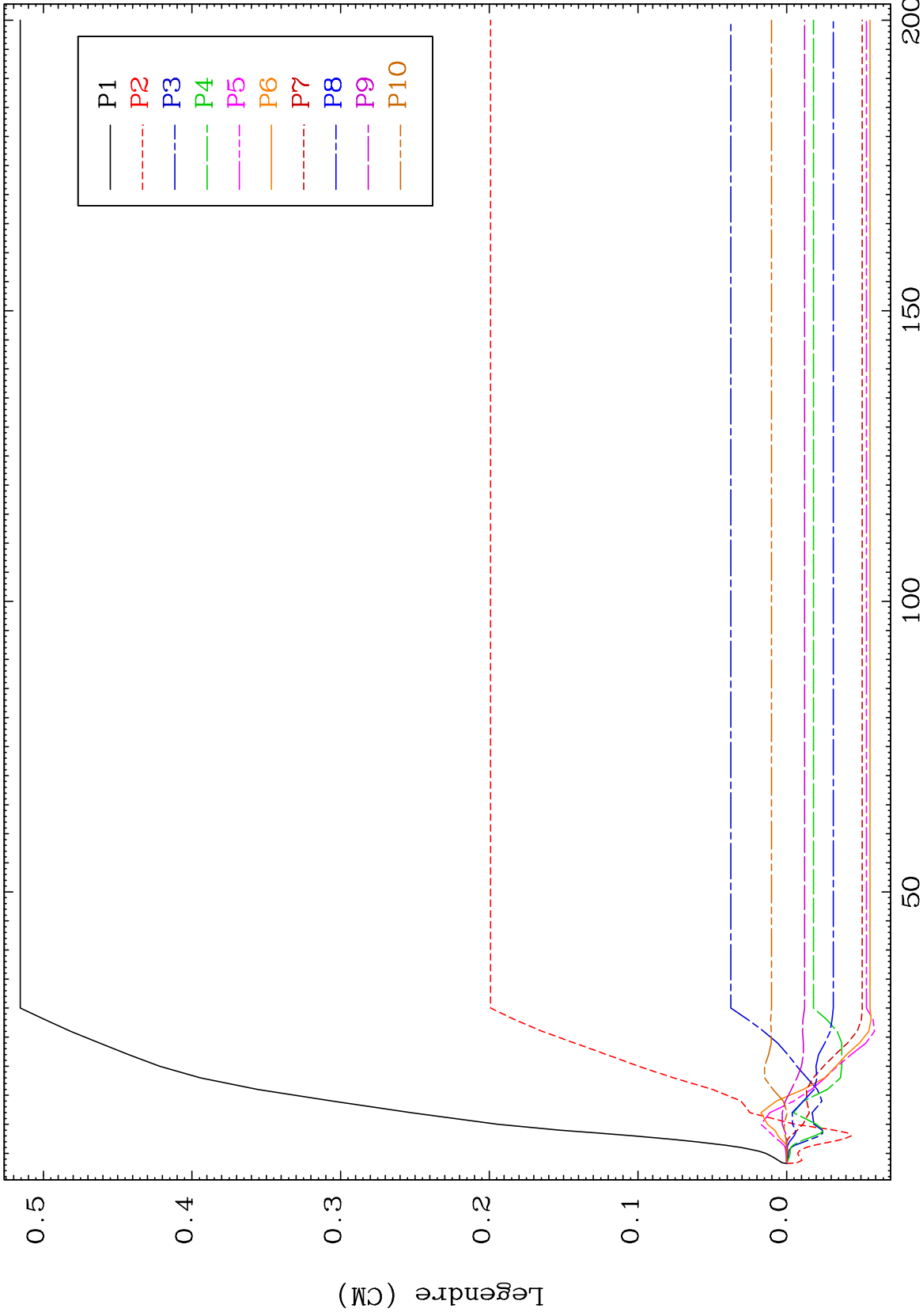
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

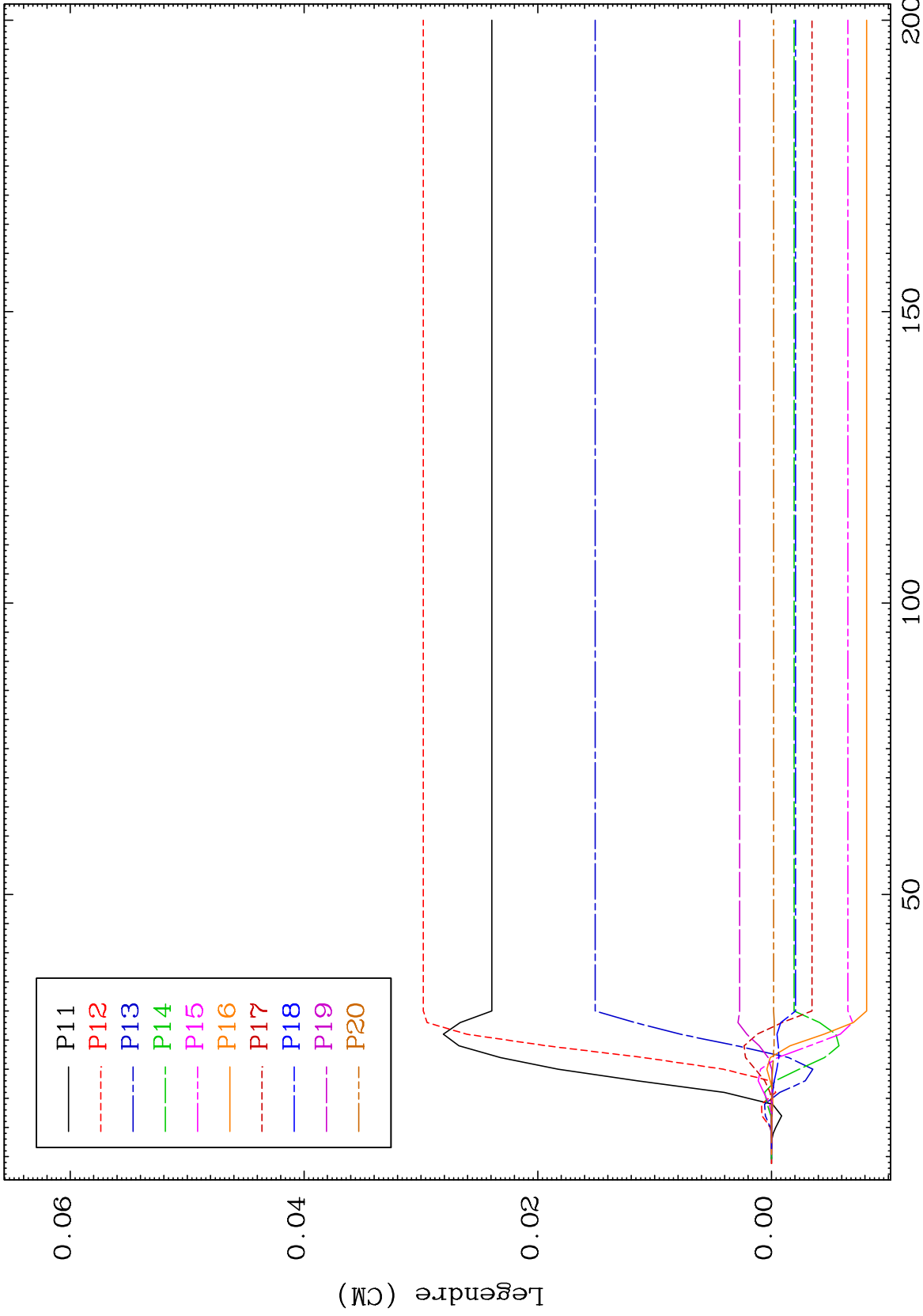
83-Bi-209



117

Incident Energy (MeV)

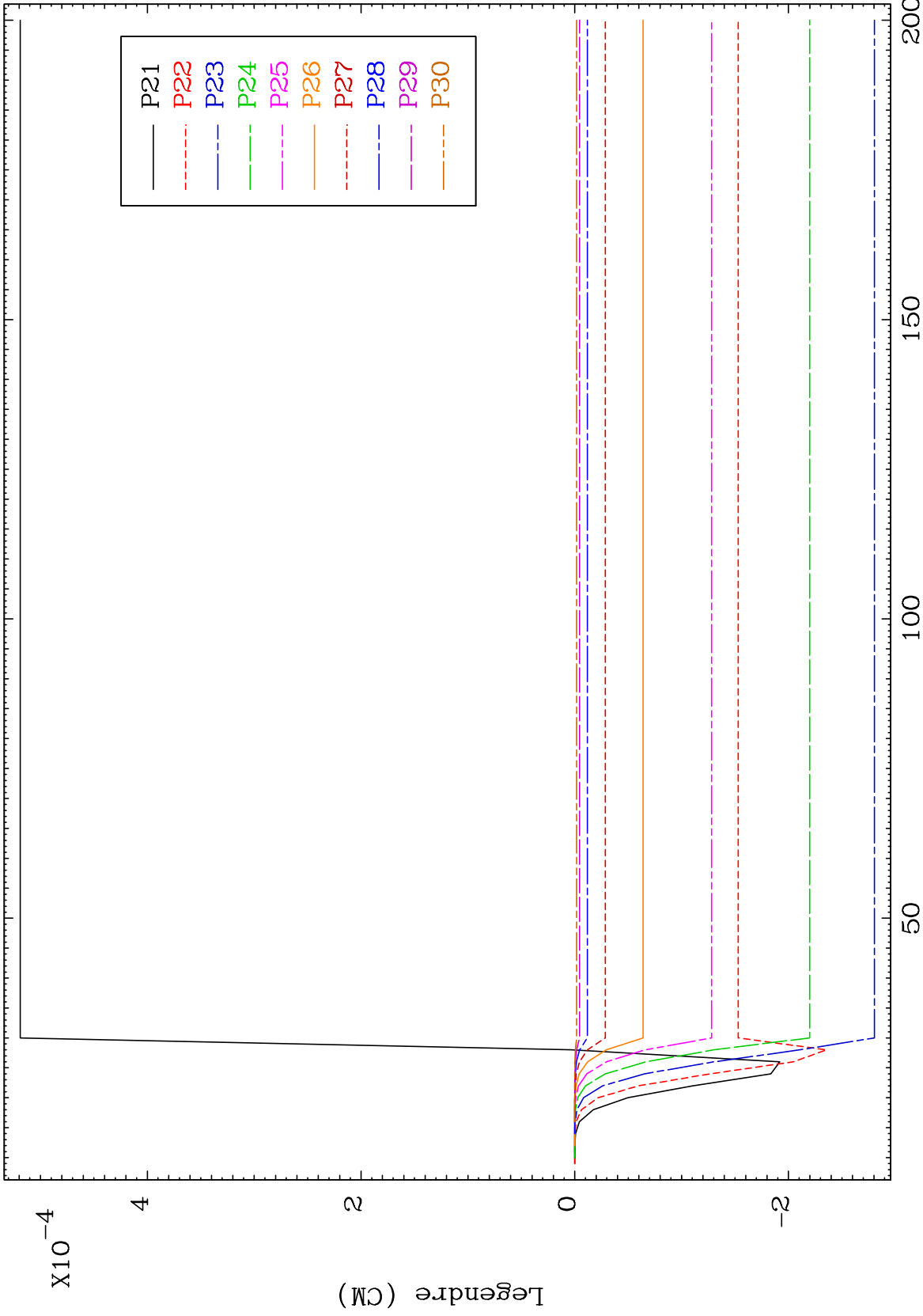
83-Bi-209



MAT 8325

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

83-Bi-209



119

Incident Energy (MeV)

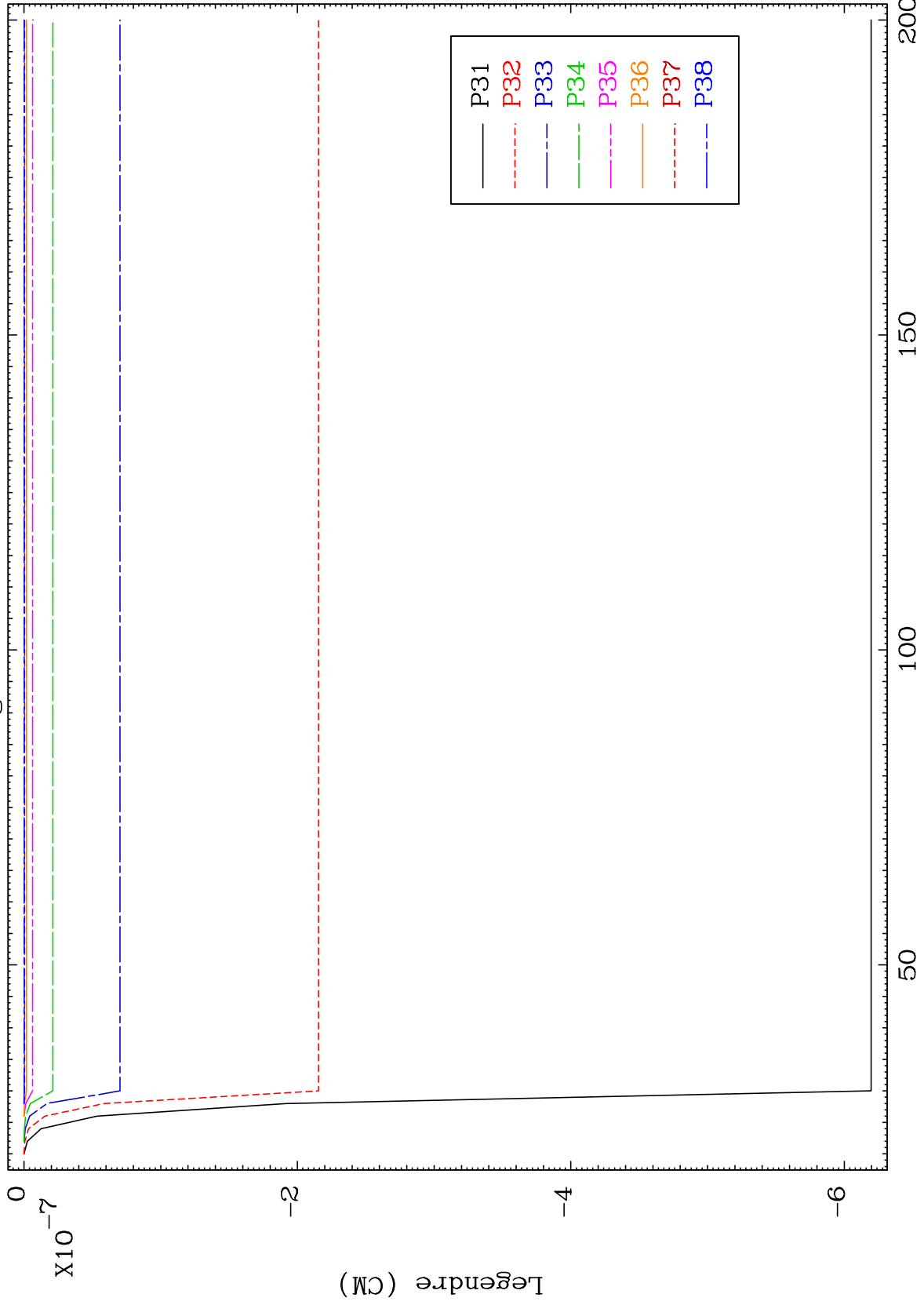
83-Bi-209



MAT 8325

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

83-Bi-209



83-Bi-209

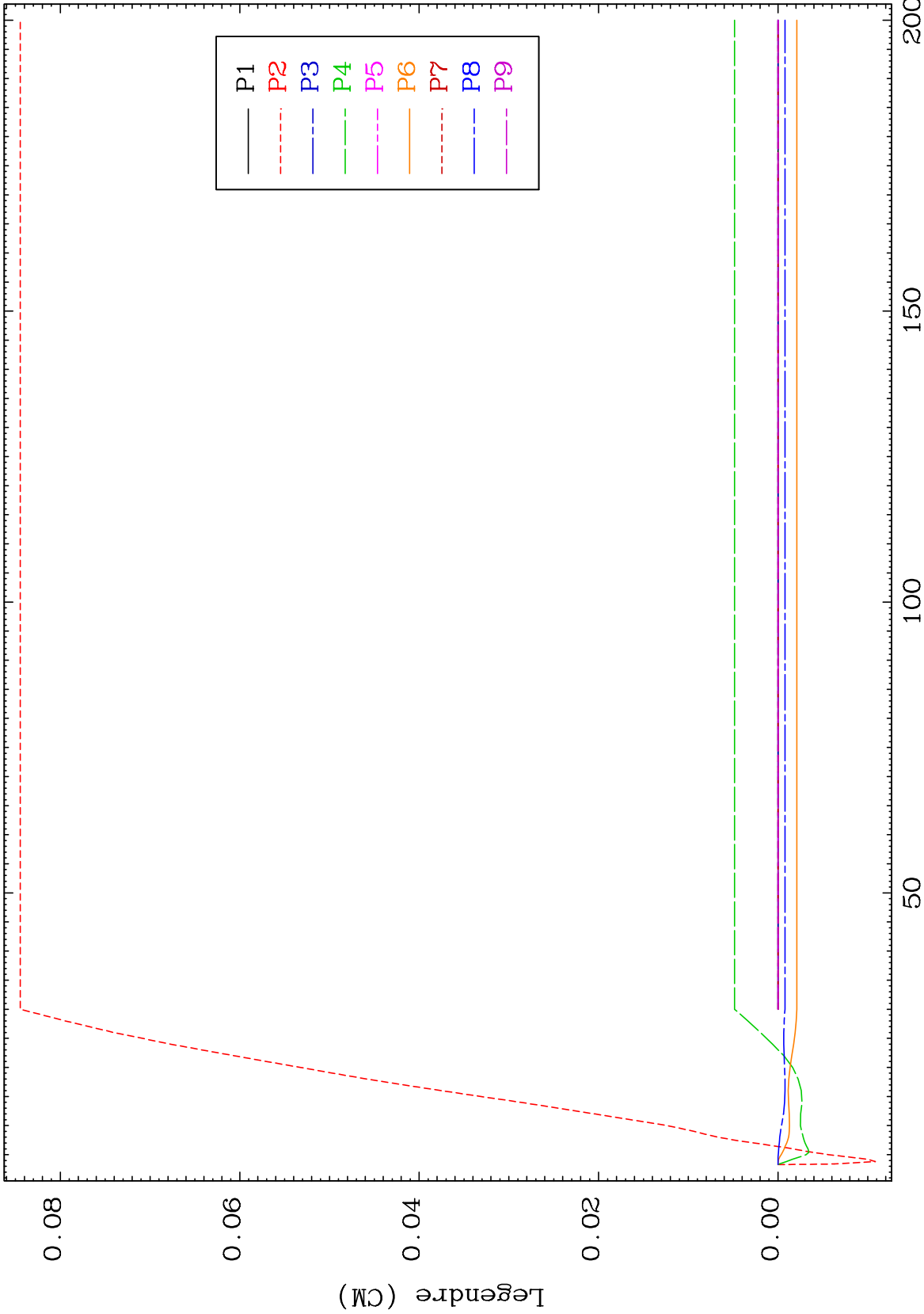
Incident Energy (MeV)

120

MAT 8325

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

83-Bi-209



121

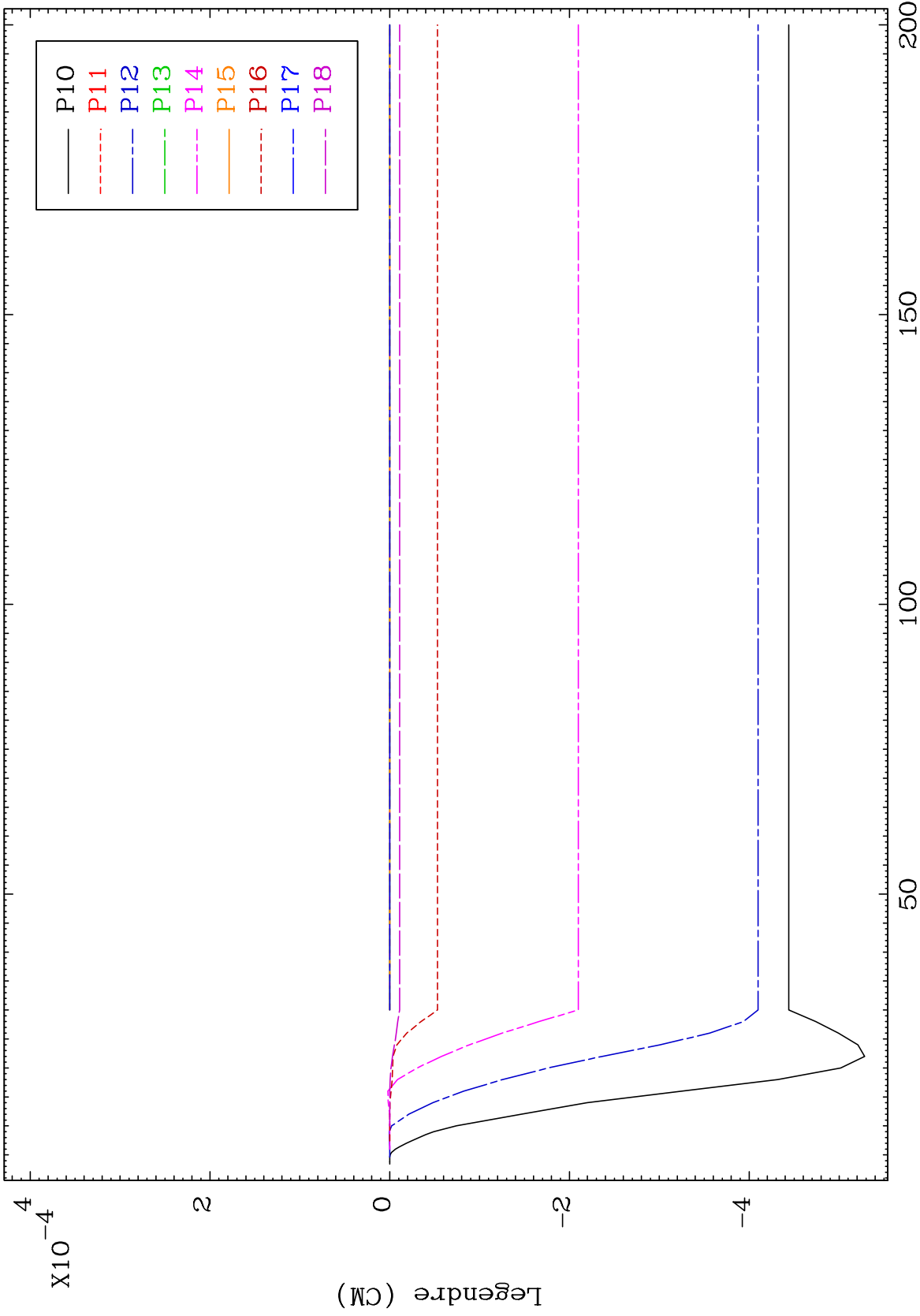
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



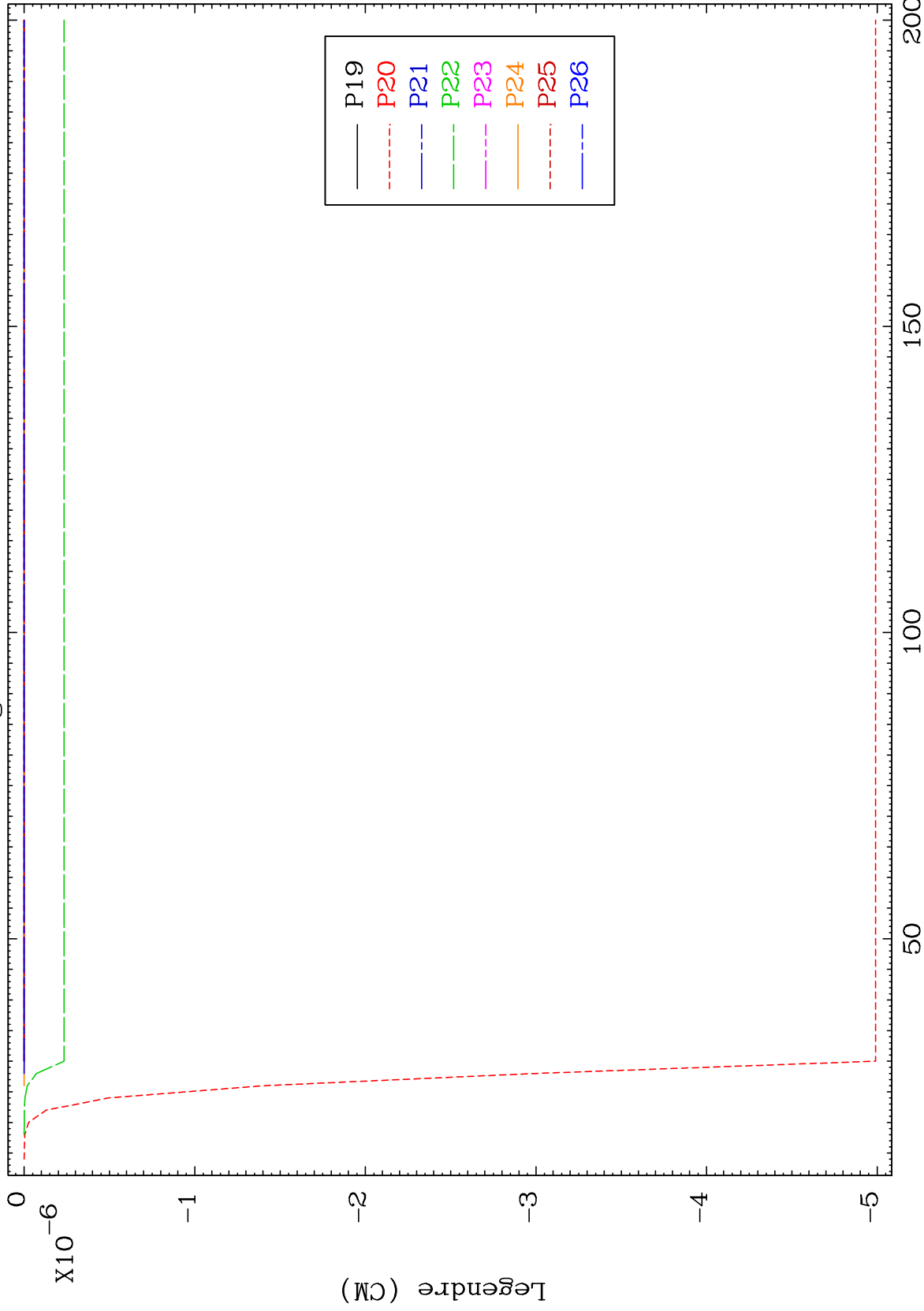
122

83-Bi-209

MAT 8325

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

83-Bi-209



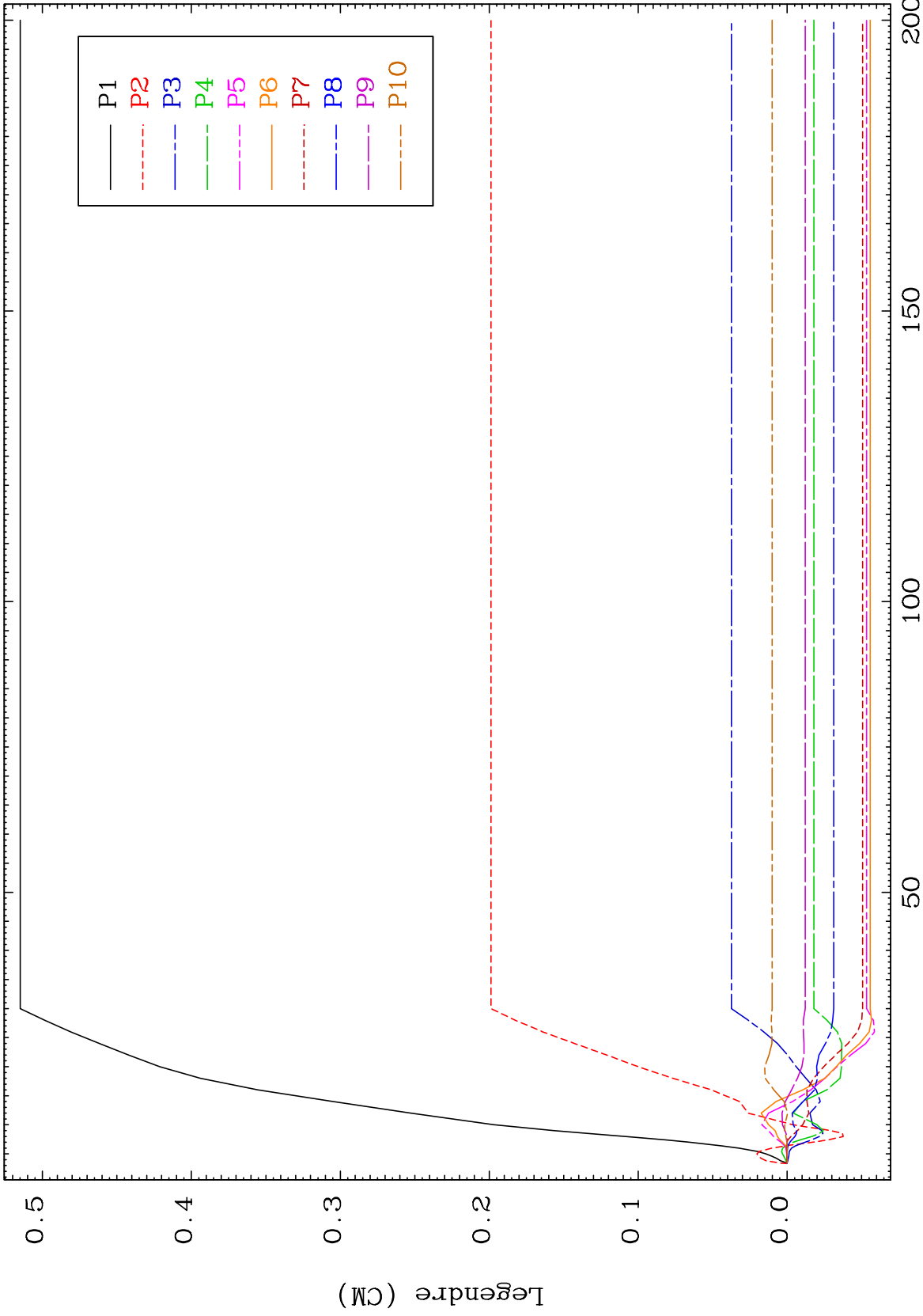
123

83-Bi-209

MAT 8325

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

83-Bi-209



124

Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



125

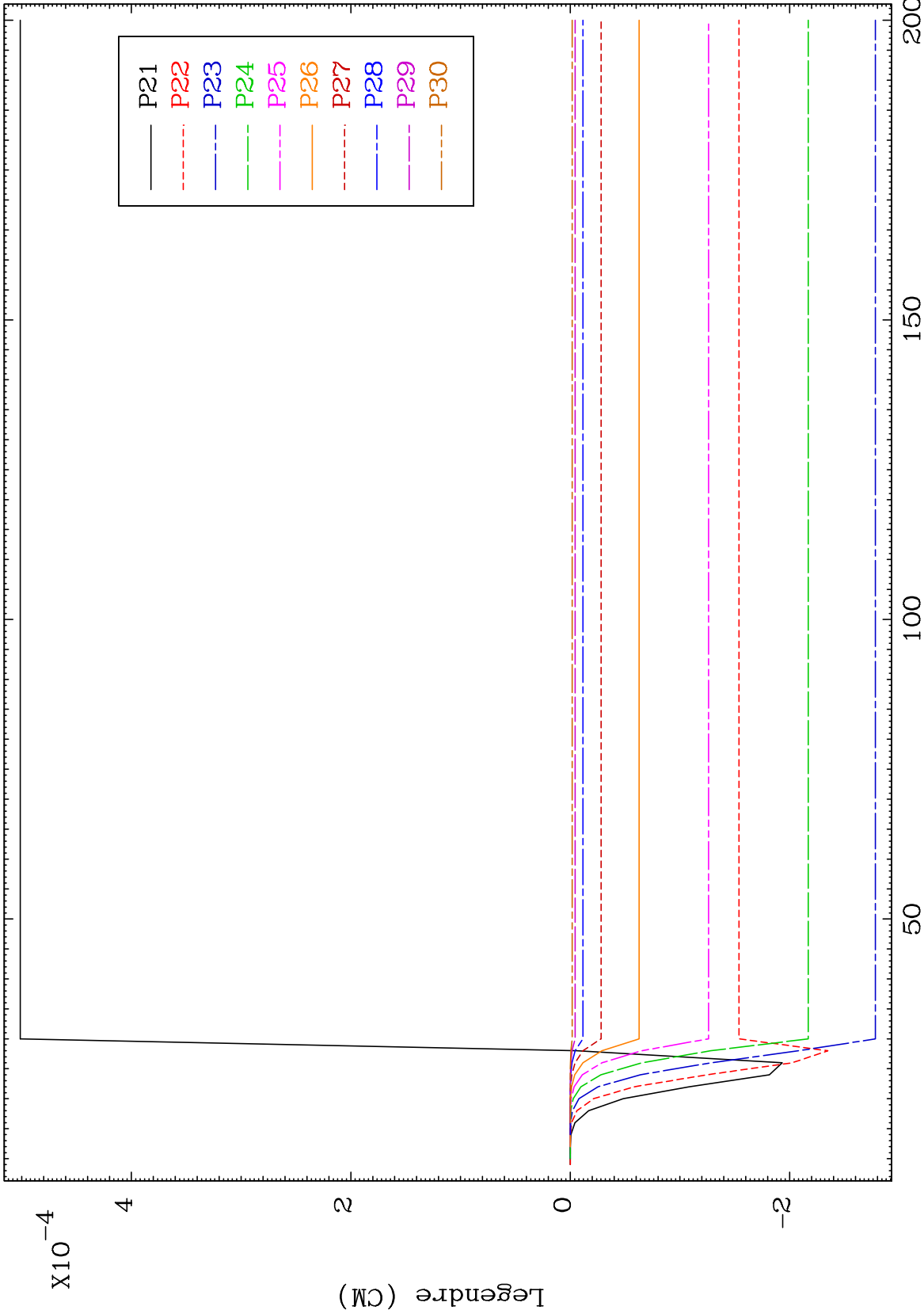
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



126

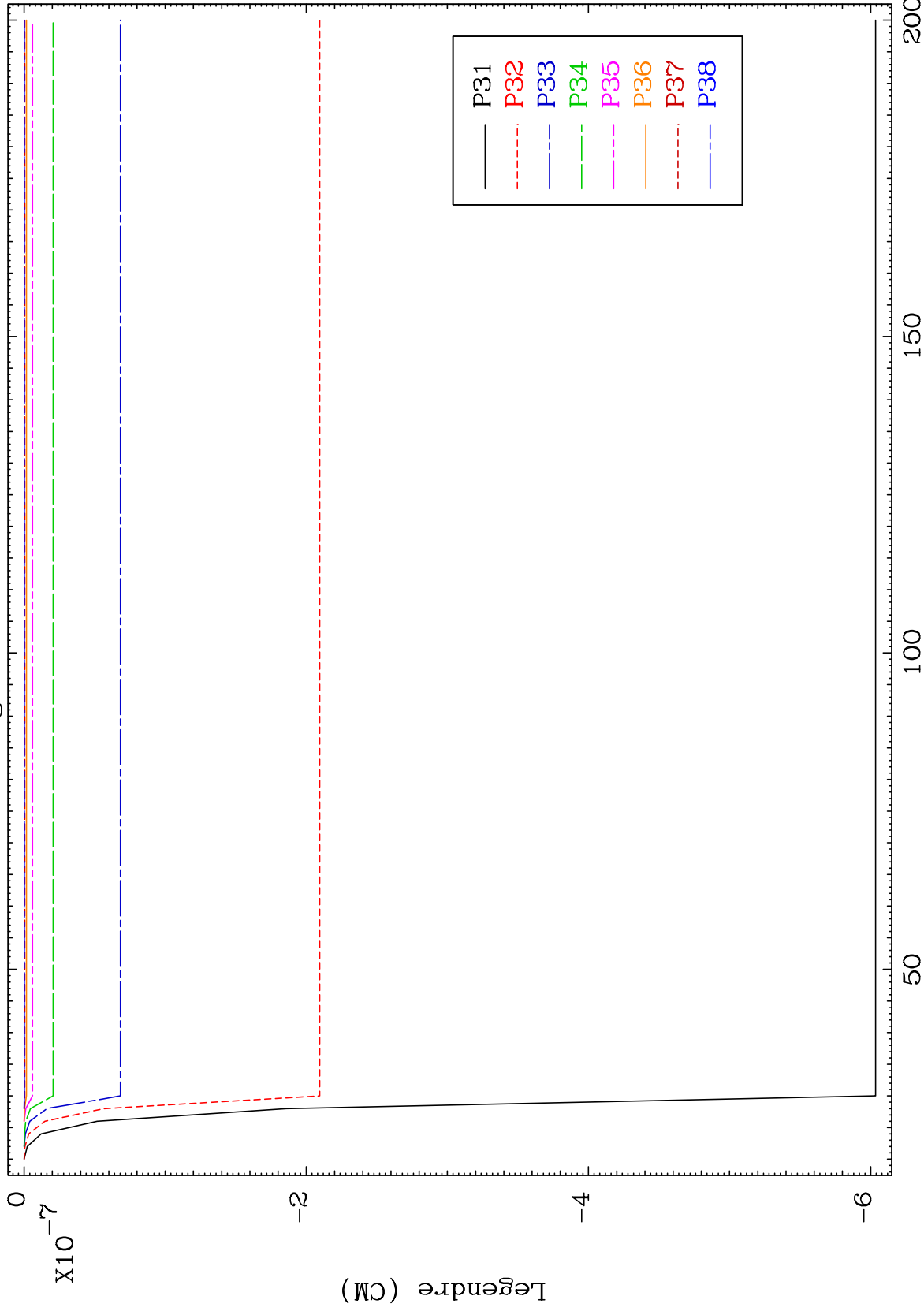
Incident Energy (MeV)

83-Bi-209

MAT 8325

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

83-Bi-209



83-Bi-209

Incident Energy (MeV)

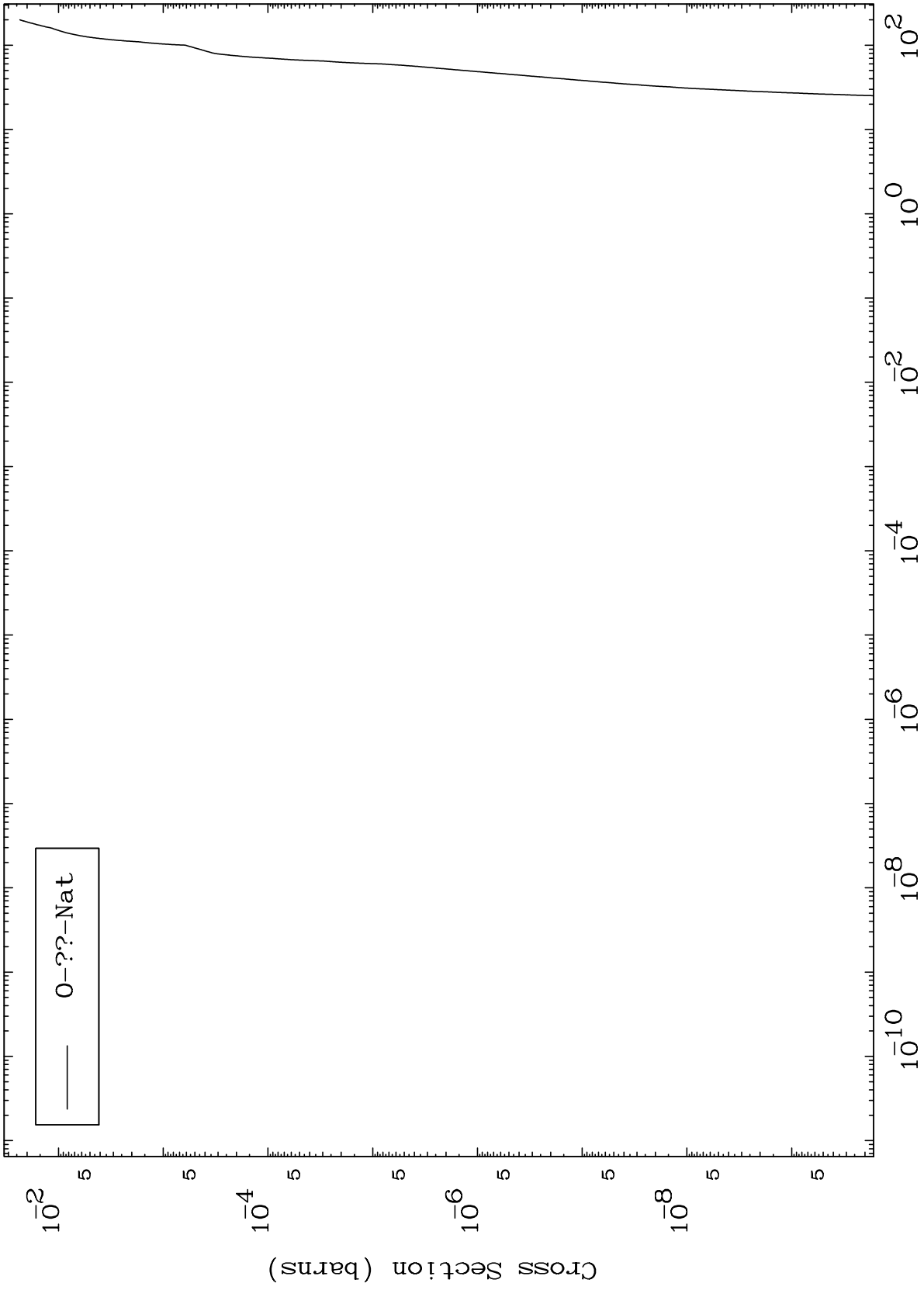
127



MAT 8325

Fission  
Radionuclide Production Cross Section

83-Bi-209



128

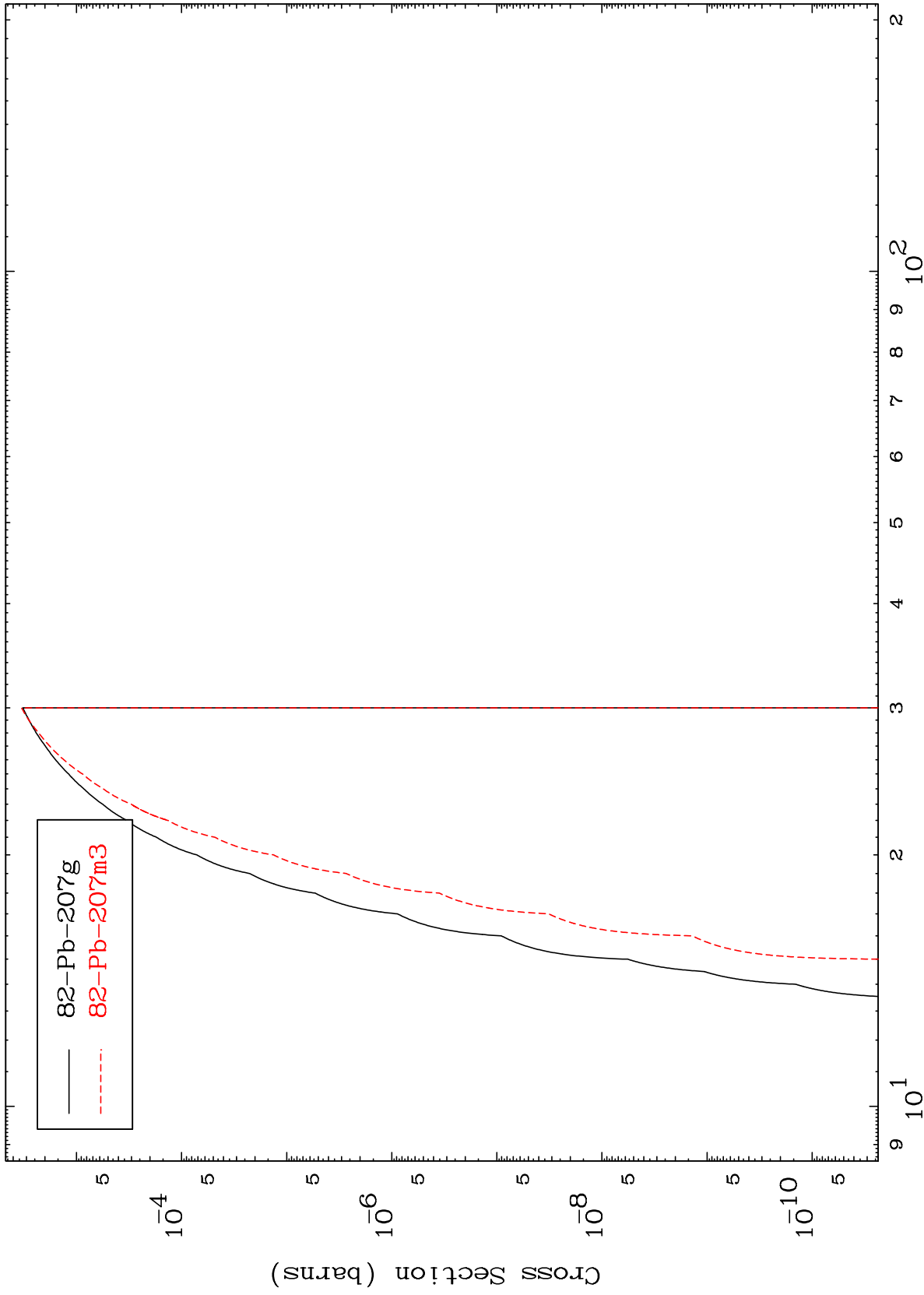
83-Bi-209

MAT 8325

(n,n') d

83-Bi-209

Radionuclide Production Cross Section



129

Incident Energy (MeV)

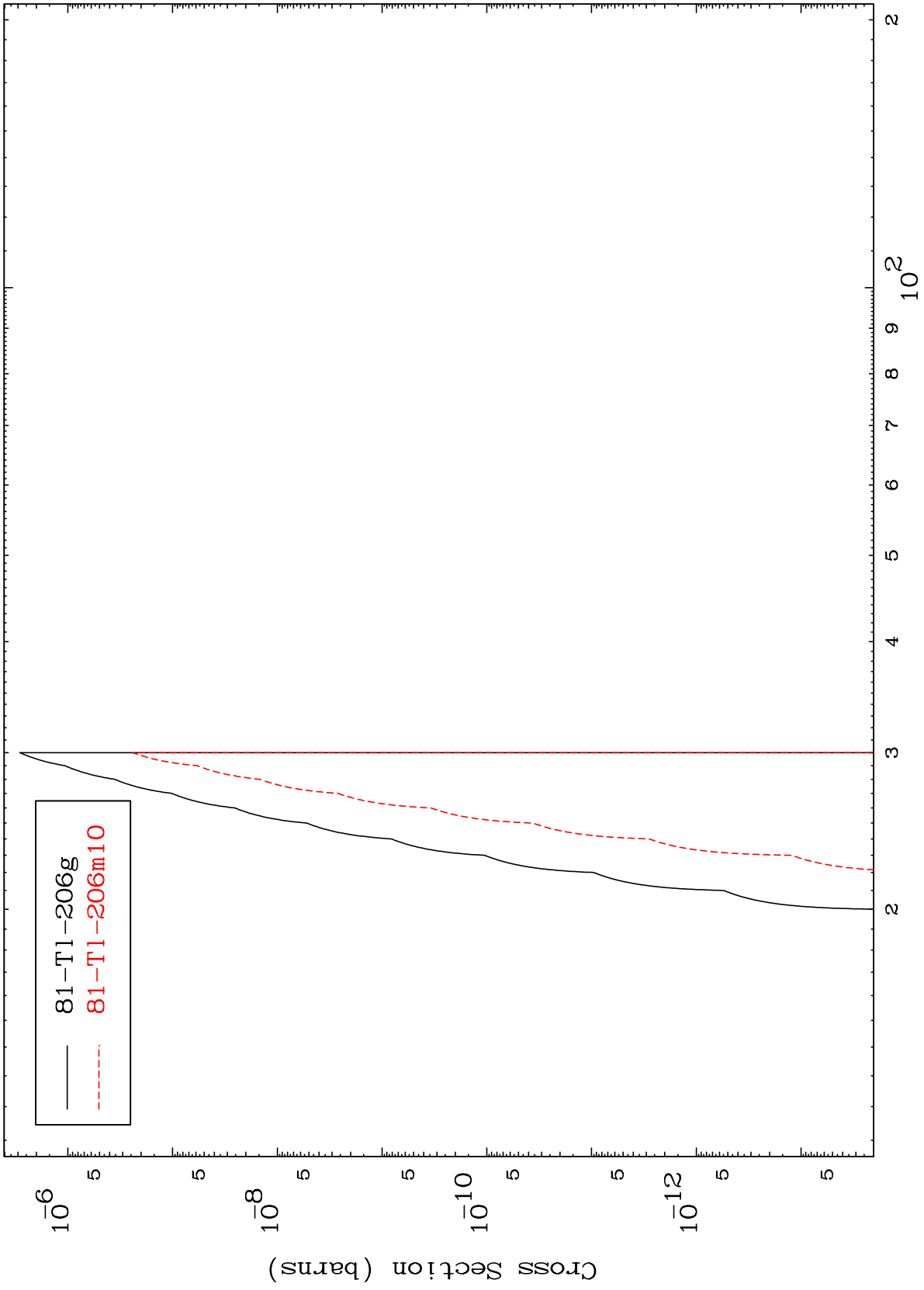
83-Bi-209

MAT 8325

(n, n') He-3

83-Bi-209

Radionuclide Production Cross Section



130

Incident Energy (MeV)

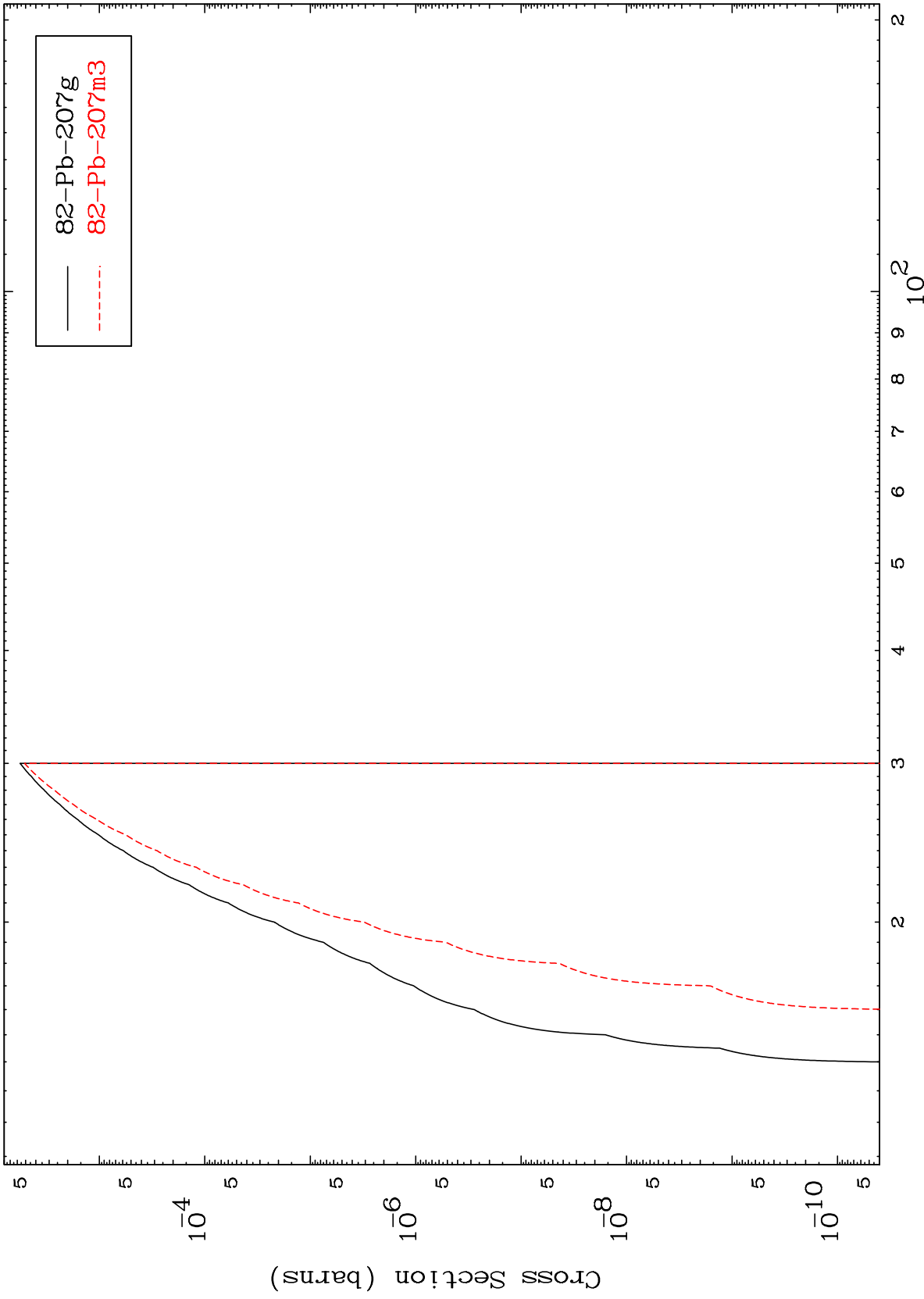
83-Bi-209

MAT 8325

(n,2n) p

83-Bi-209

Radionuclide Production Cross Section



131

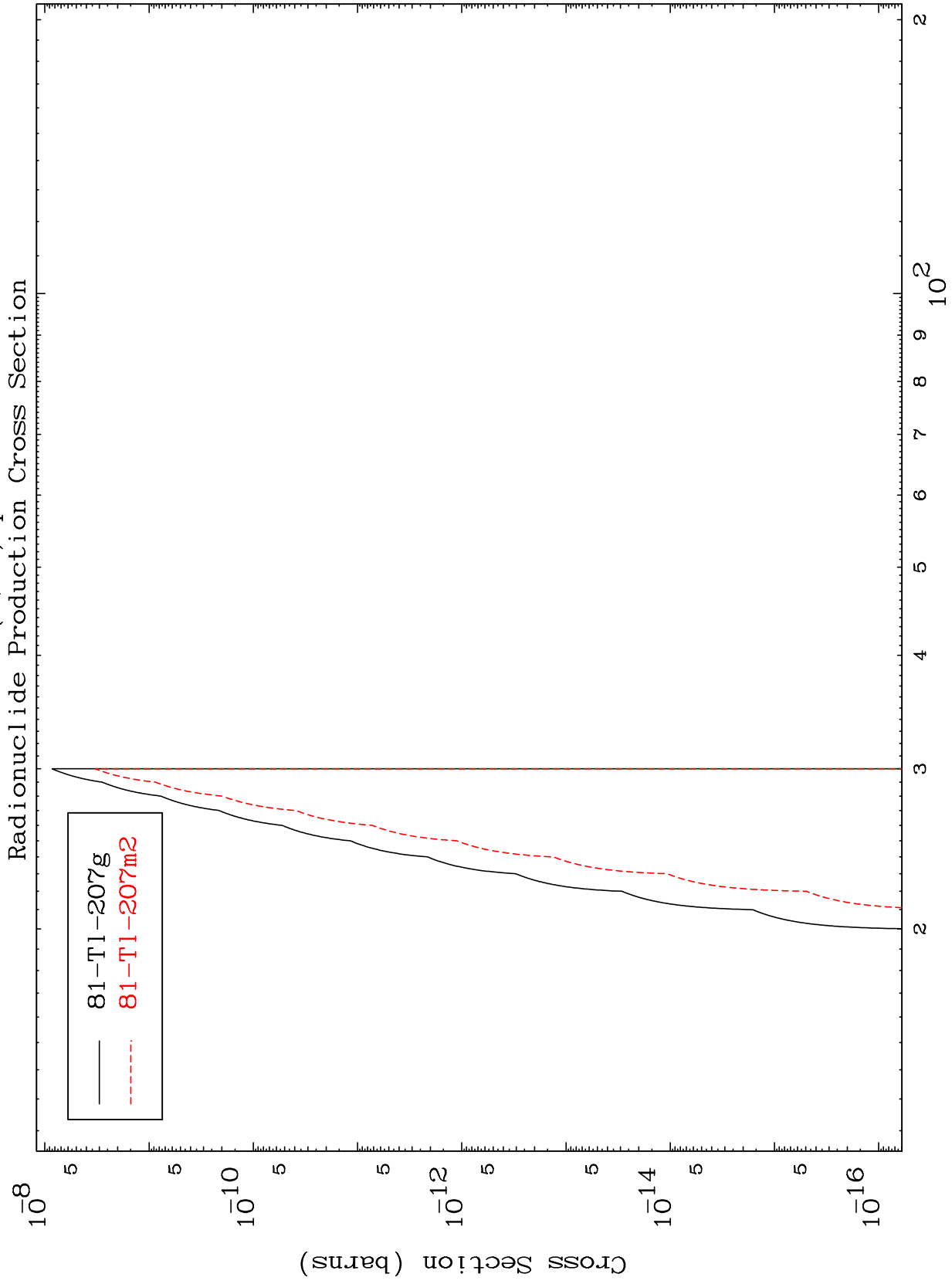
Incident Energy (MeV)

83-Bi-209

MAT 8325

(n,2n) p

83-Bi-209



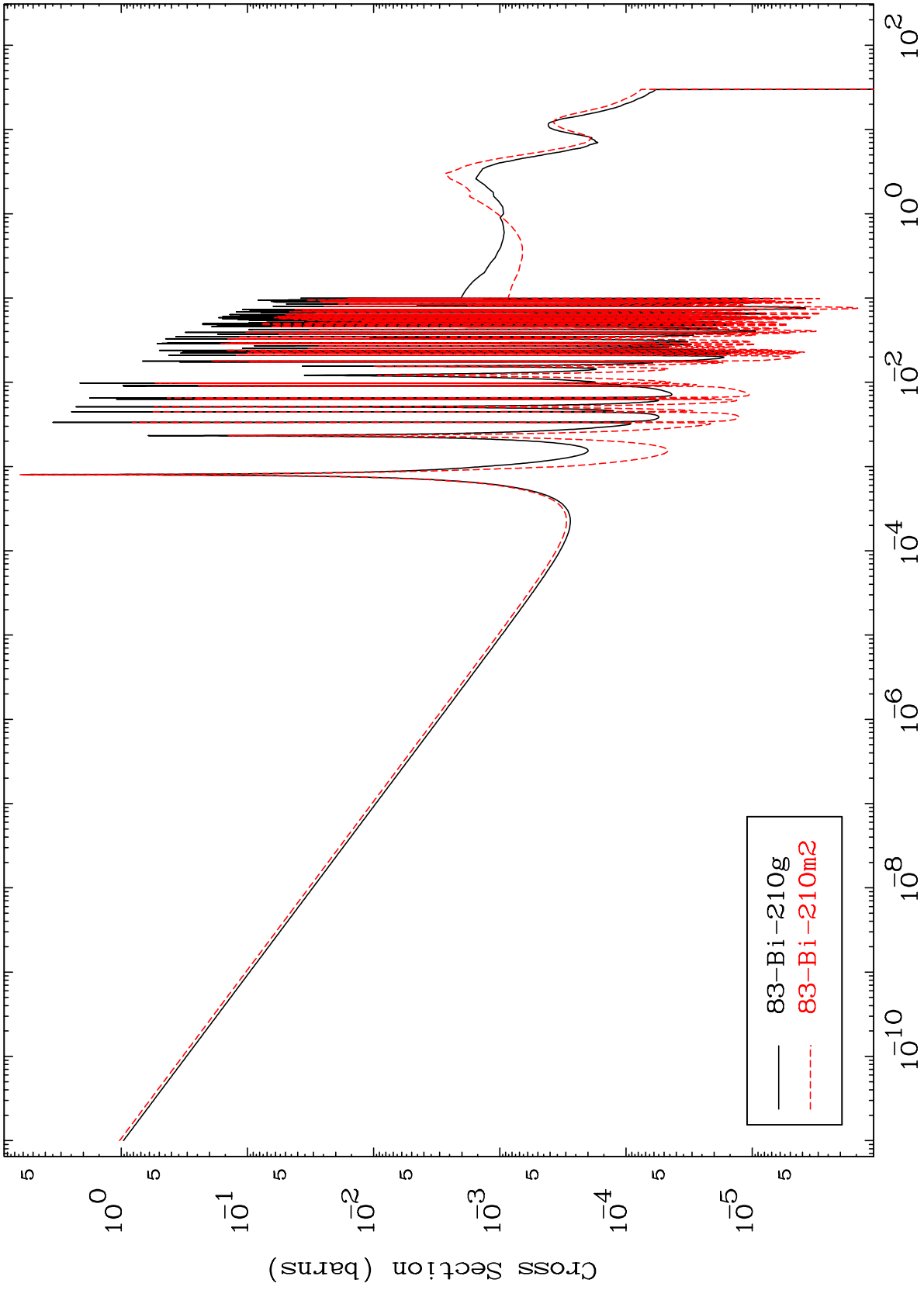
132

83-Bi-209

MAT 8325

83-Bi-209

(n,γ)  
Radionuclide Production Cross Section



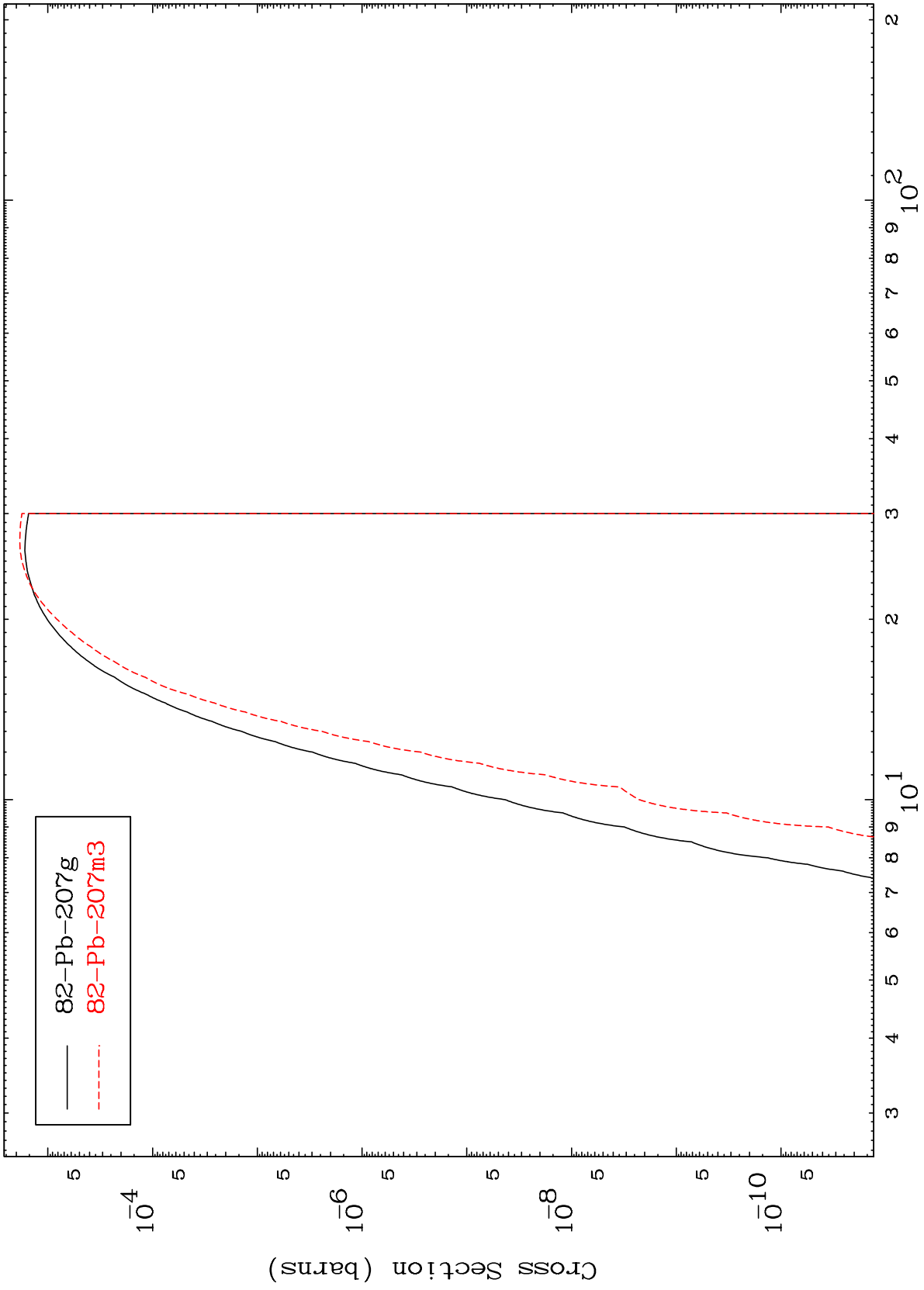
133

83-Bi-209

MAT 8325

83-Bi-209

(n, t)  
Radionuclide Production Cross Section



134

Incident Energy (MeV)

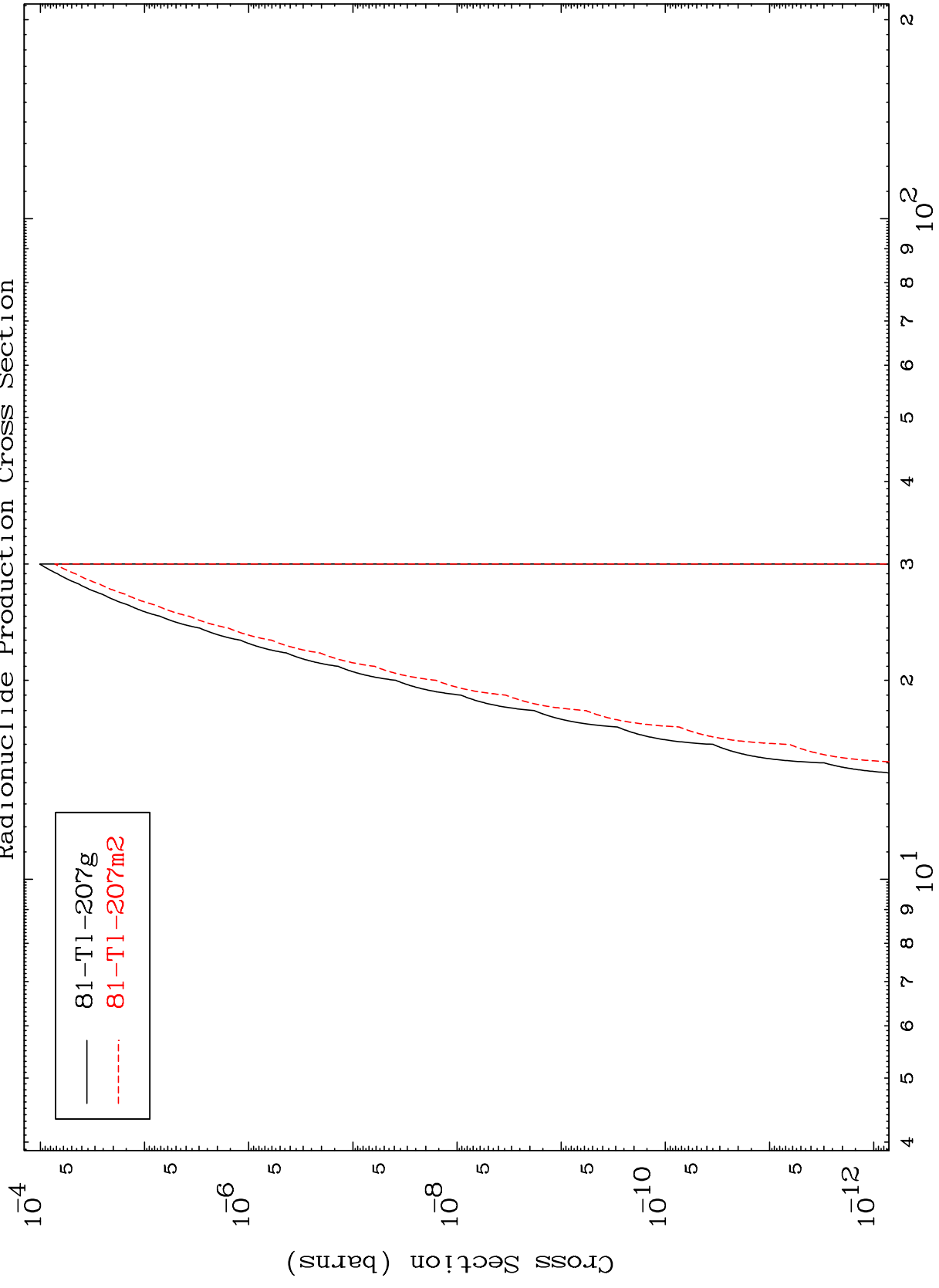
83-Bi-209

MAT 8325

(n, He-3)

83-Bi-209

Radionuclide Production Cross Section



135

Incident Energy (MeV)

83-Bi-209

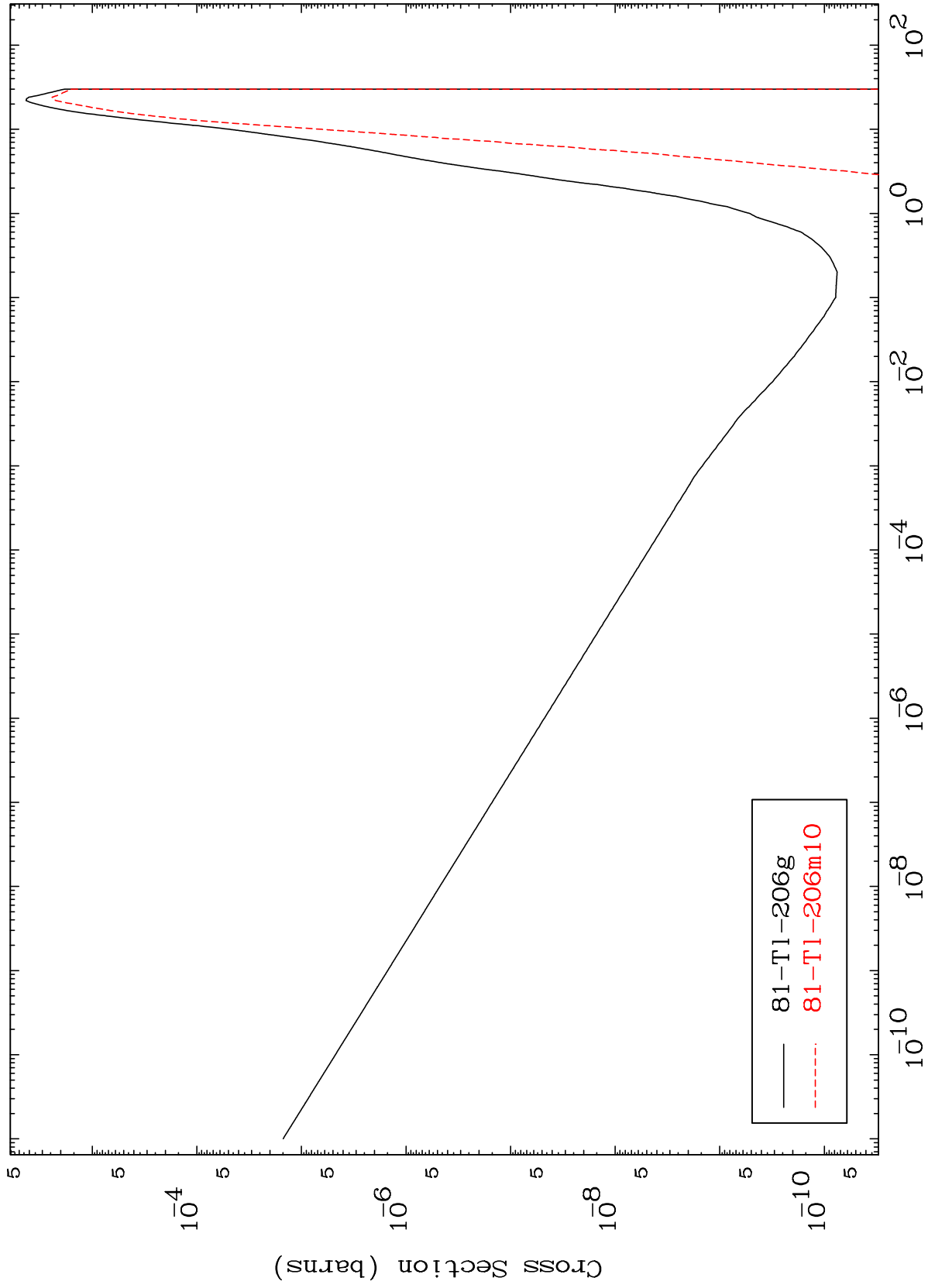


MAT 8325

(n,  $\alpha$ )

83-Bi-209

Radionuclide Production Cross Section



136

Incident Energy (MeV)

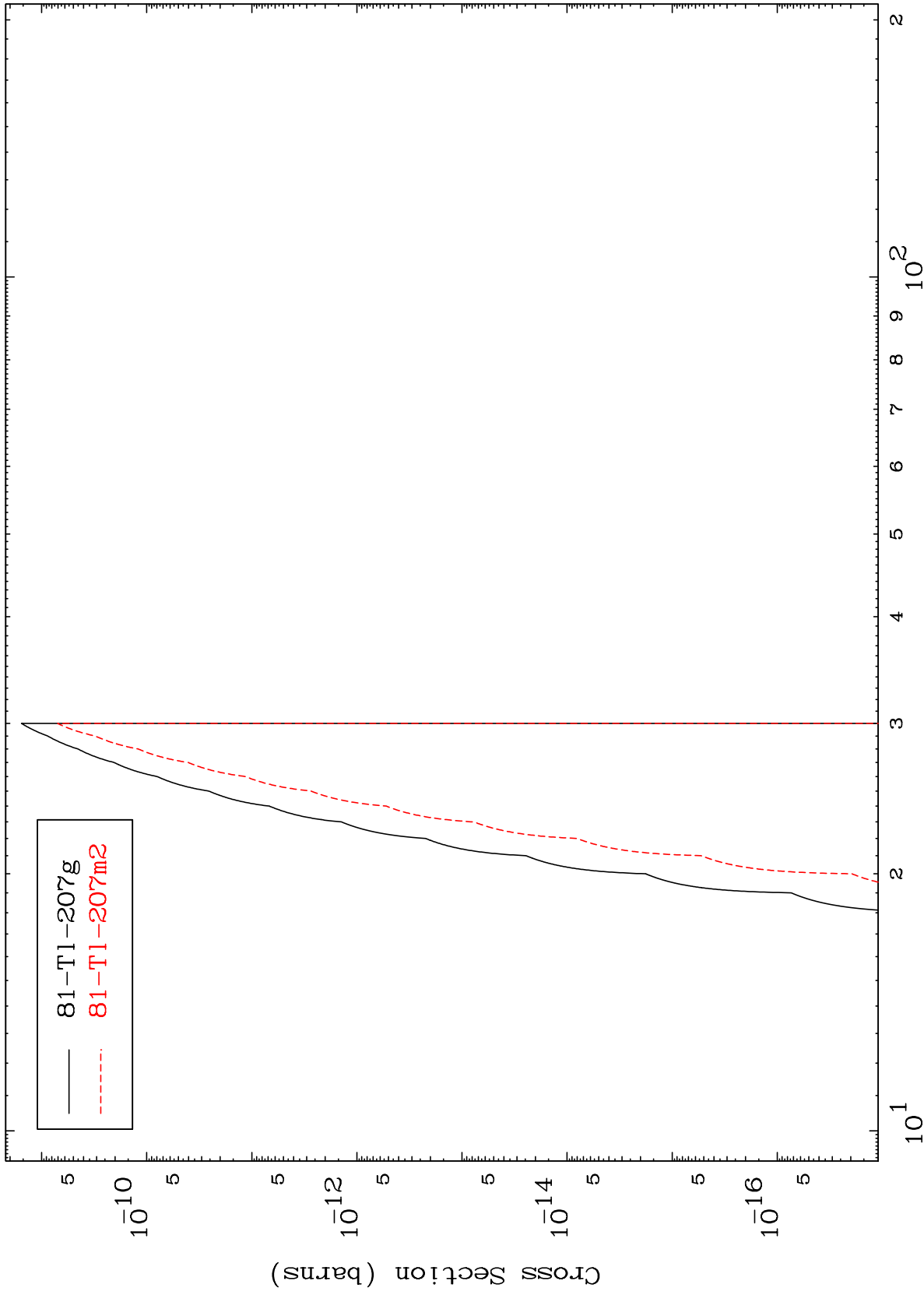
83-Bi-209

MAT 8325

(n,p) d

83-Bi-209

Radionuclide Production Cross Section



137

Incident Energy (MeV)

83-Bi-209