

Program EVALPLOT
(Version 2018-1)

by

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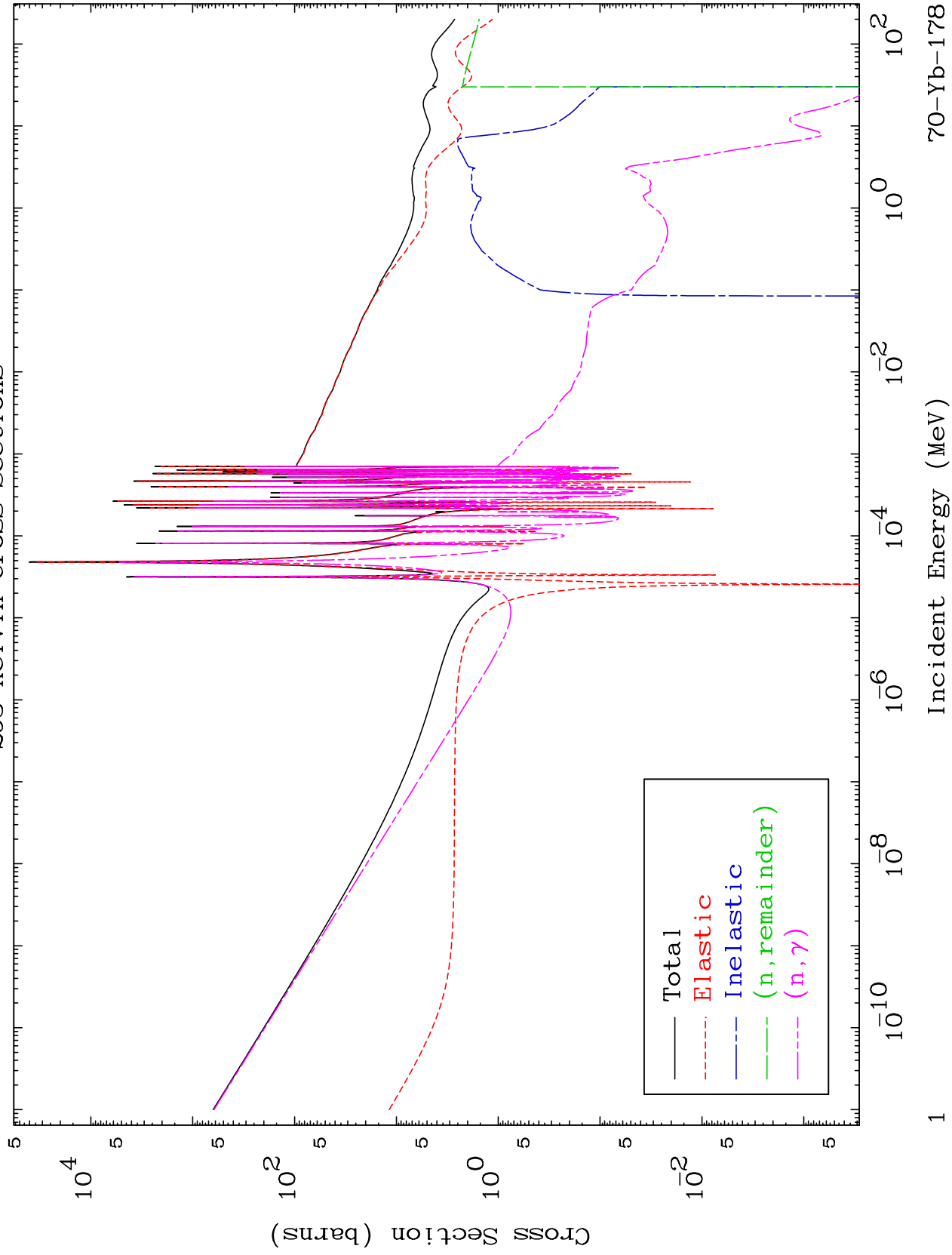
Press Mouse Button to Start

MAT 7055

Major

293 Kelvin Cross Sections

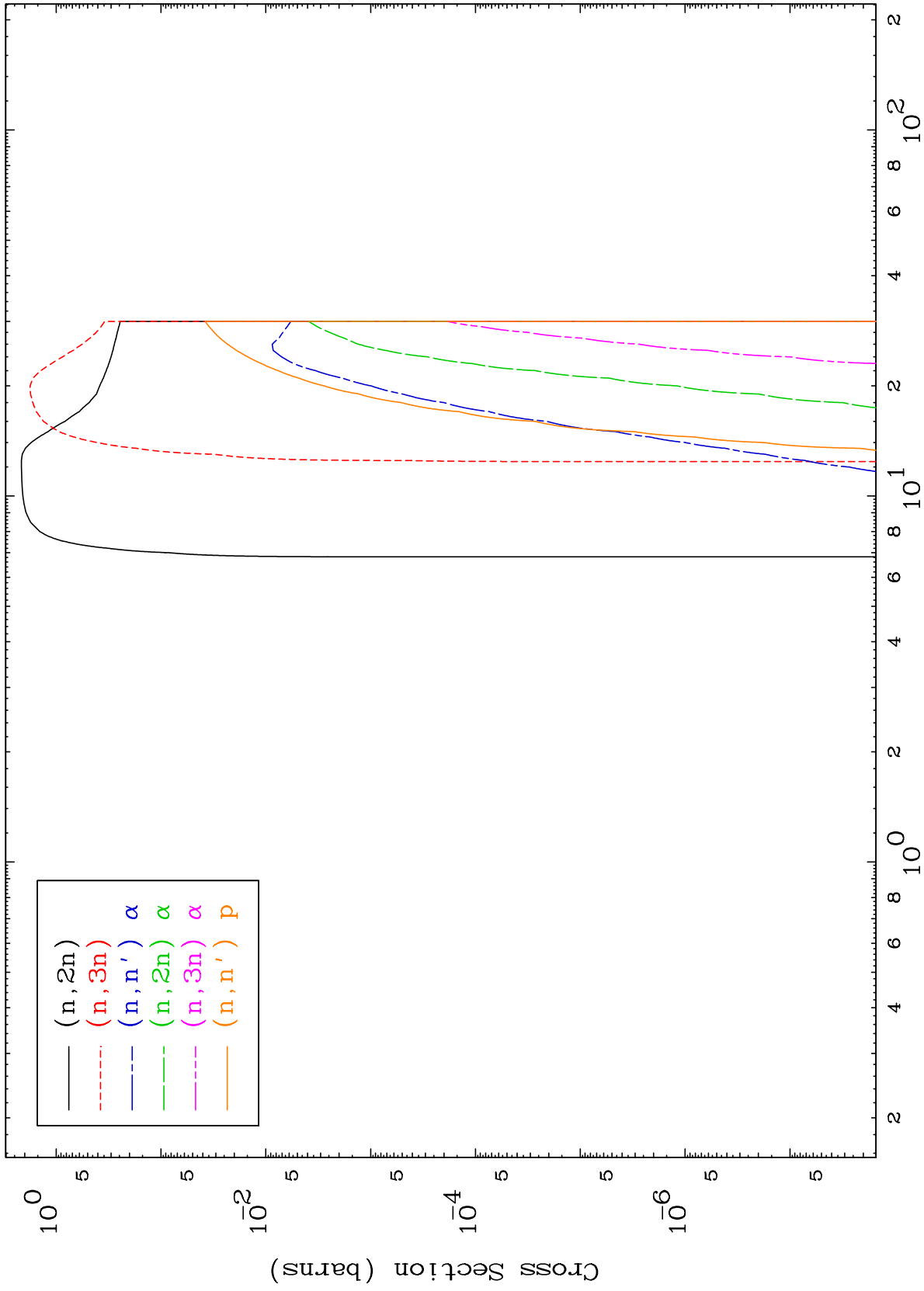
70-Yb-178



MAT 7055

Neutron Production
293 Kelvin Cross Sections

70-Yb-178



2

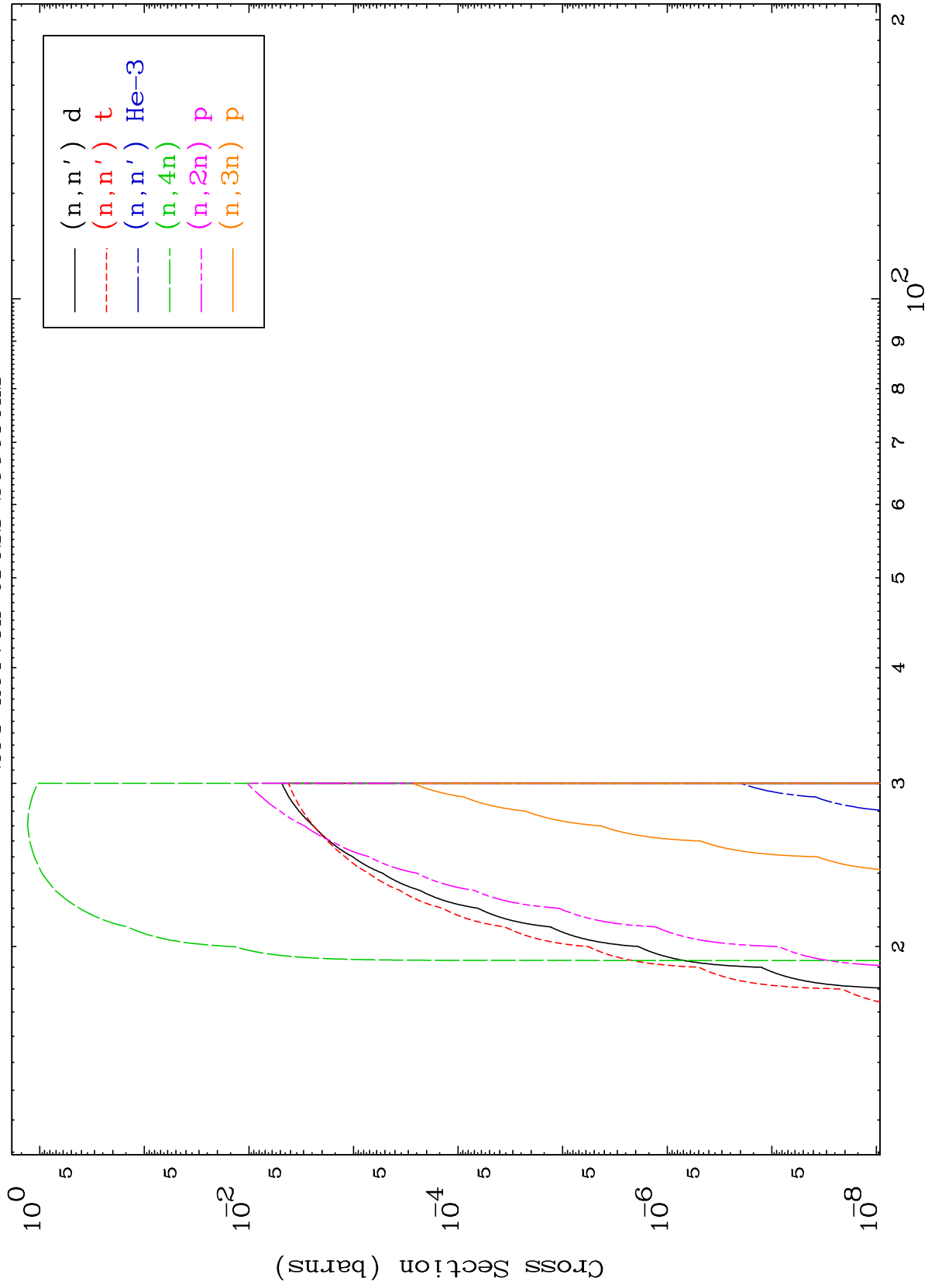
Incident Energy (MeV)

70-Yb-178

MAT 7055

Neutron Production
293 Kelvin Cross Sections

70-Yb-178



3

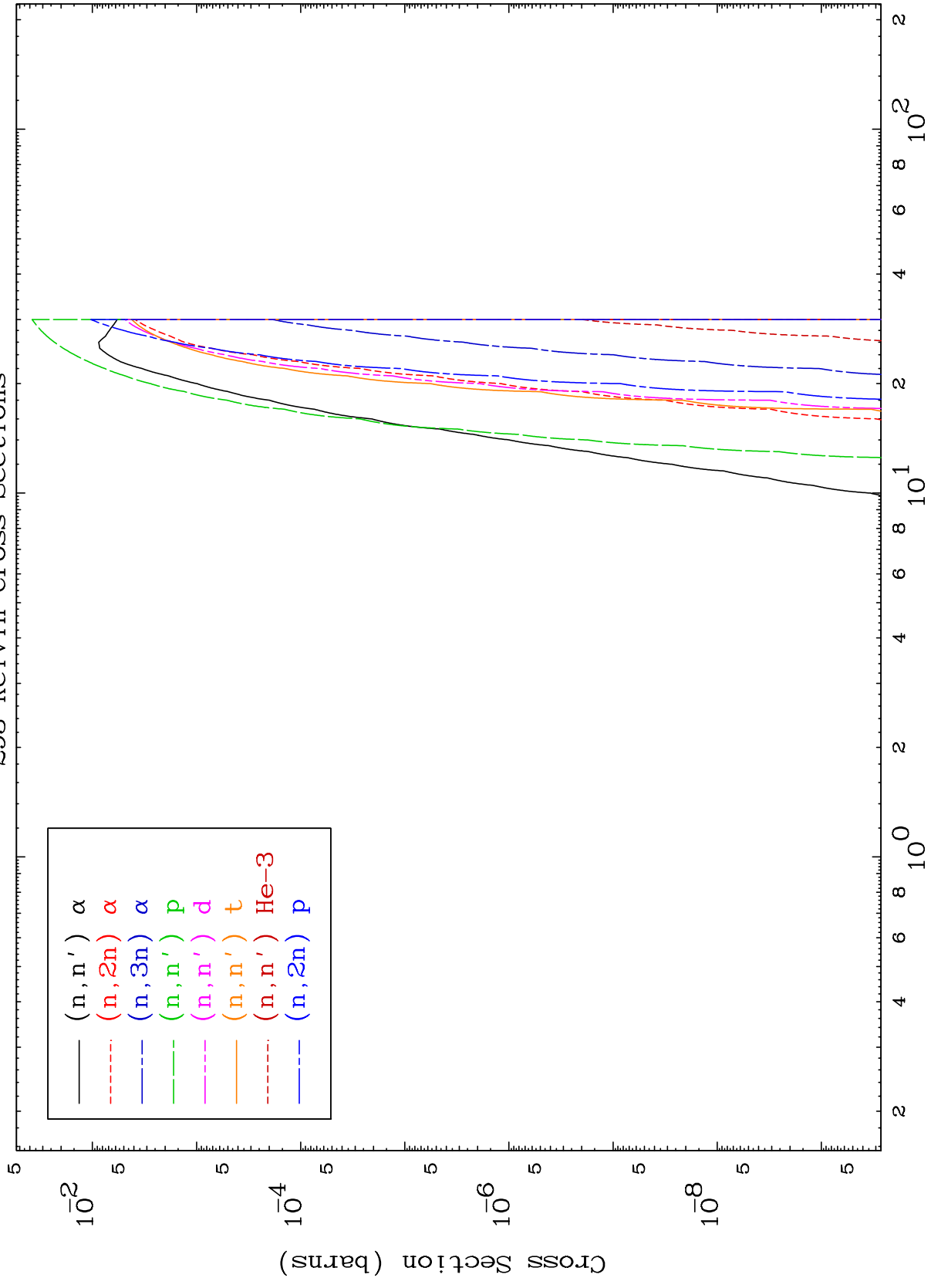
Incident Energy (MeV)

70-Yb-178

MAT 7055

293 Kelvin Cross Sections

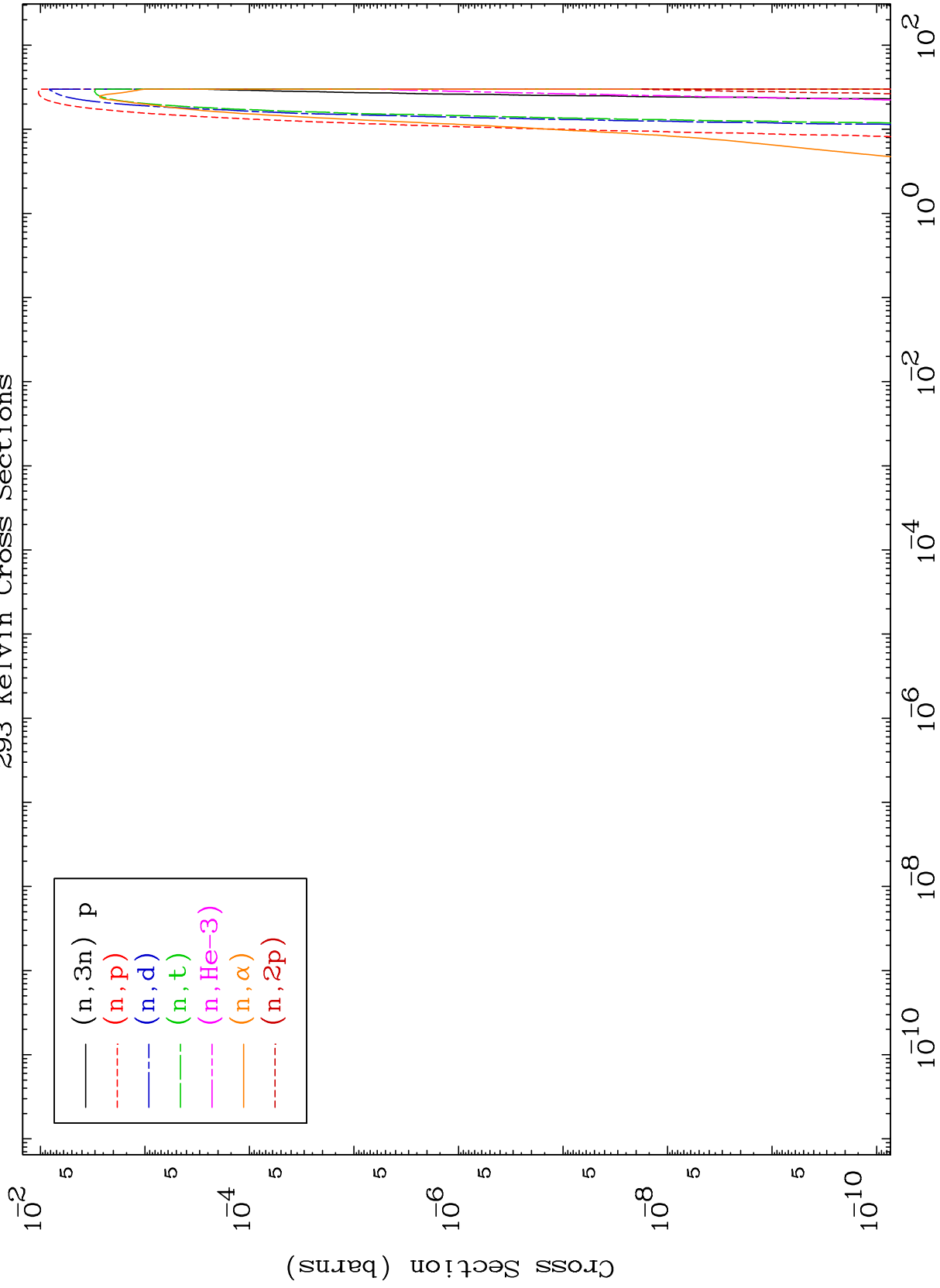
70-Yb-178



MAT 7055

Charged Particle
293 Kelvin Cross Sections

70-Yb-178



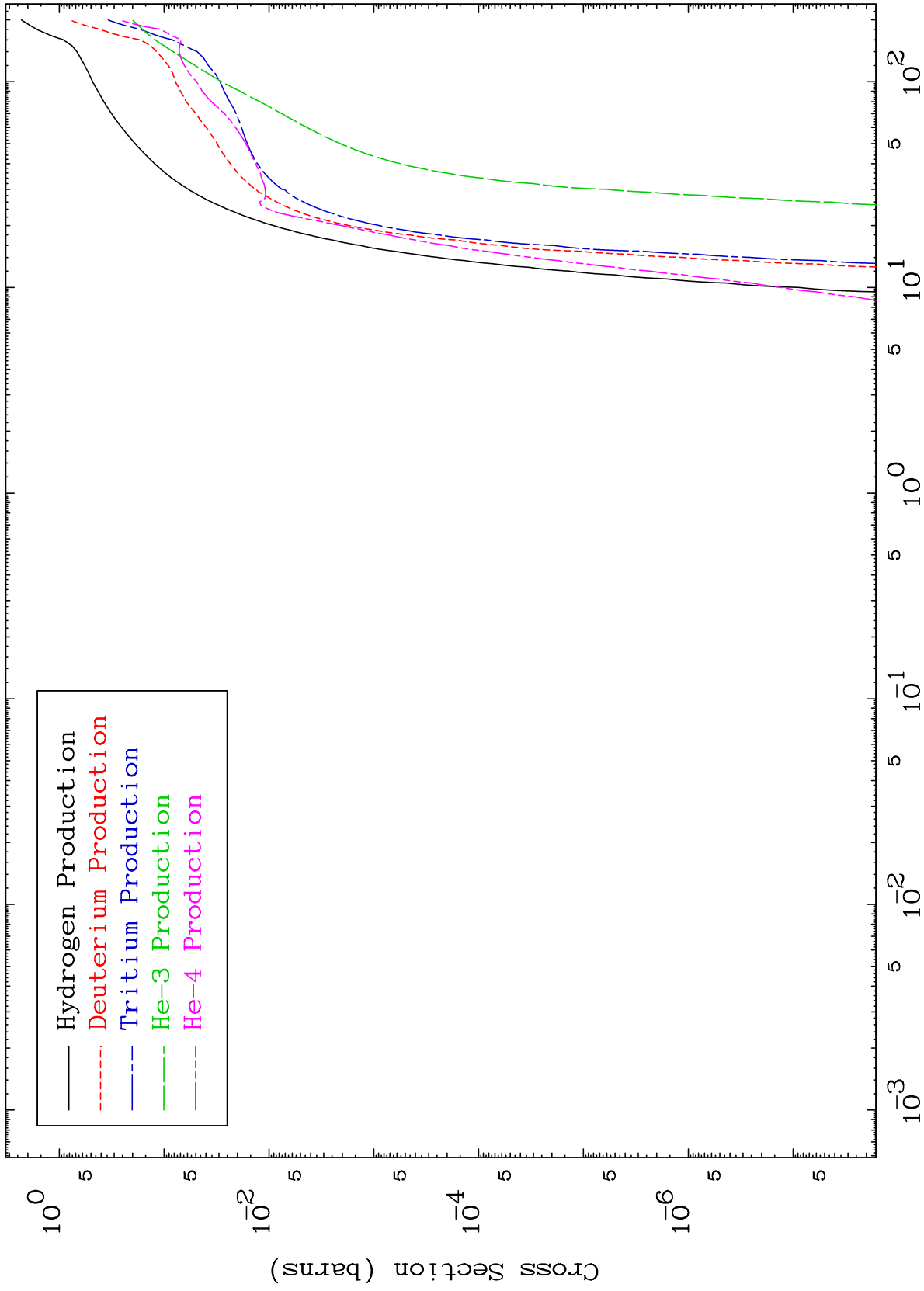
5

70-Yb-178

MAT 7055

Particle Production
293 Kelvin Cross Sections

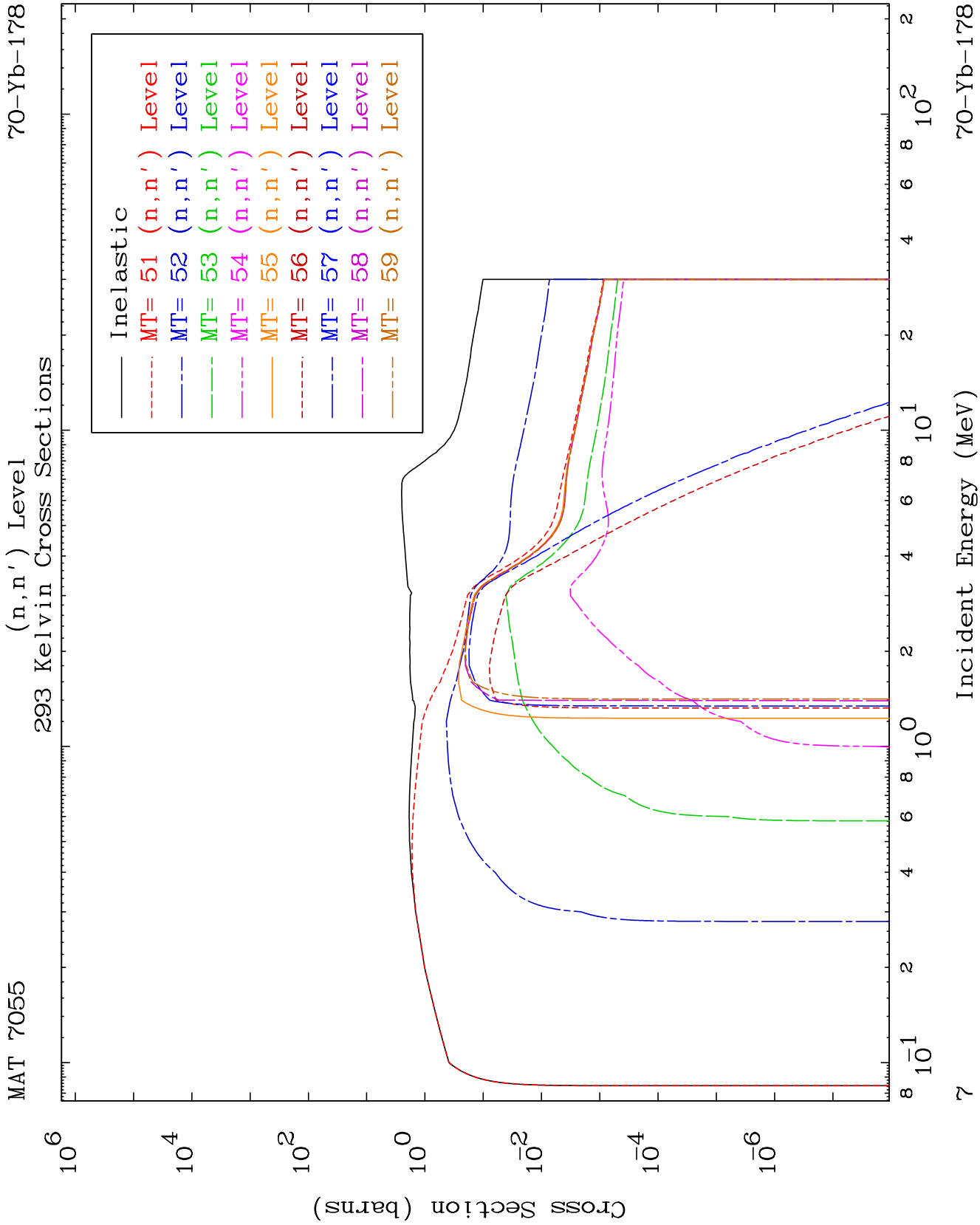
70-Yb-178



6

Incident Energy (MeV)

70-Yb-178

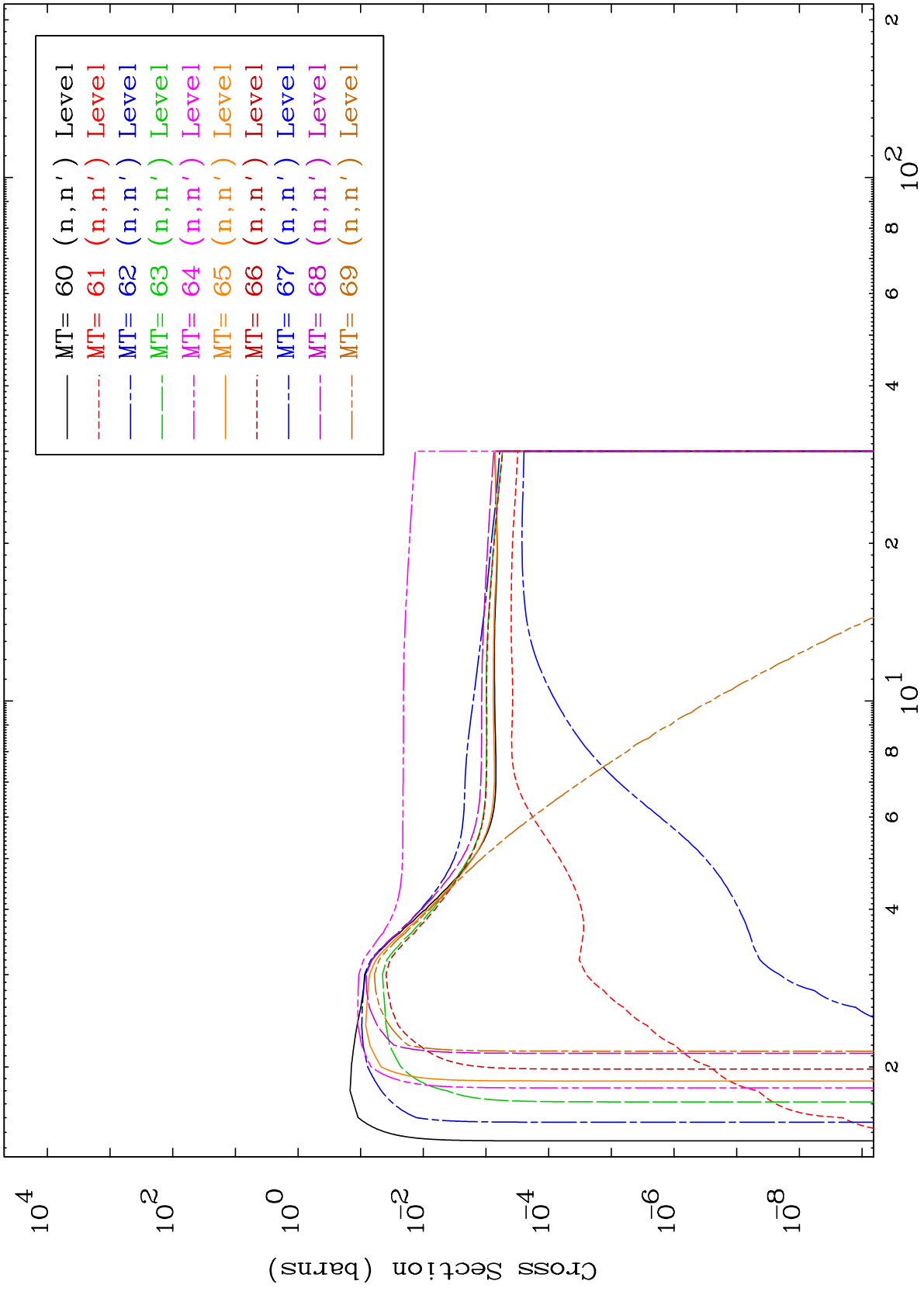


MAT 7055

(n,n') Level

70-Yb-178

293 Kelvin Cross Sections



8

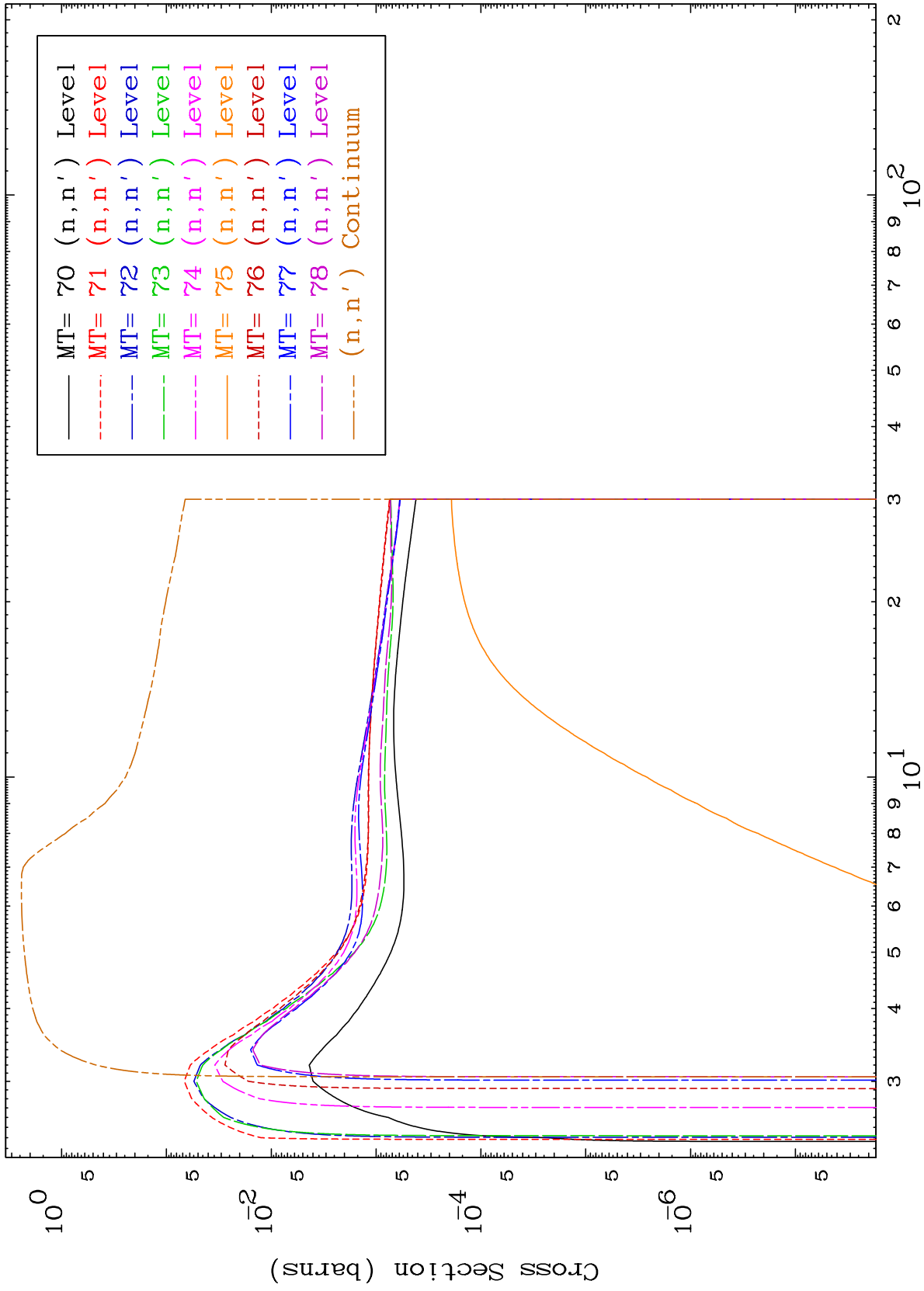
Incident Energy (MeV)

70-Yb-178

MAT 7055

(n,n') Level
293 Kelvin Cross Sections

70-Yb-178



9

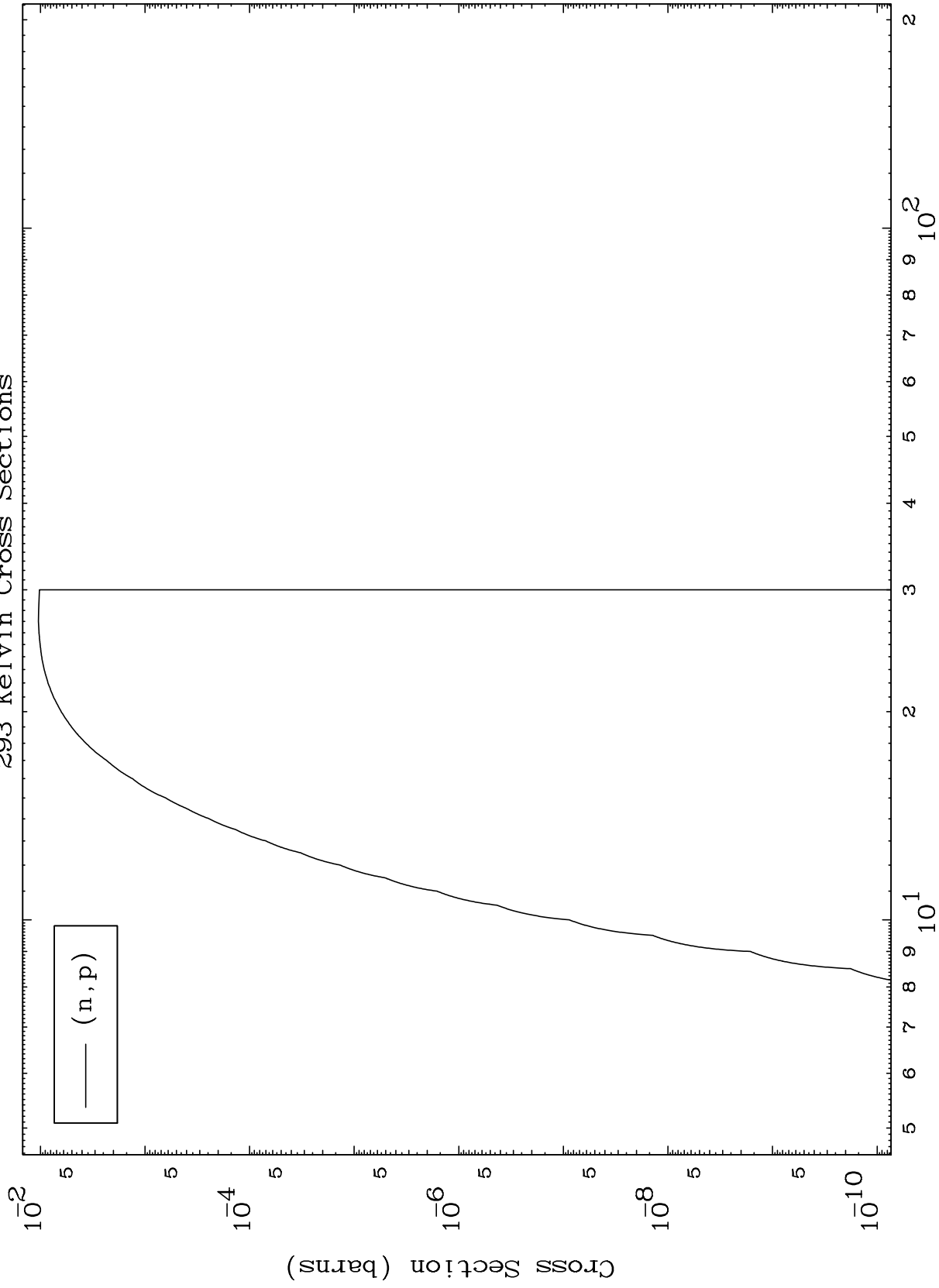
Incident Energy (MeV)

70-Yb-178

MAT 7055

(n,p) Levels
293 Kelvin Cross Sections

70-Yb-178



10

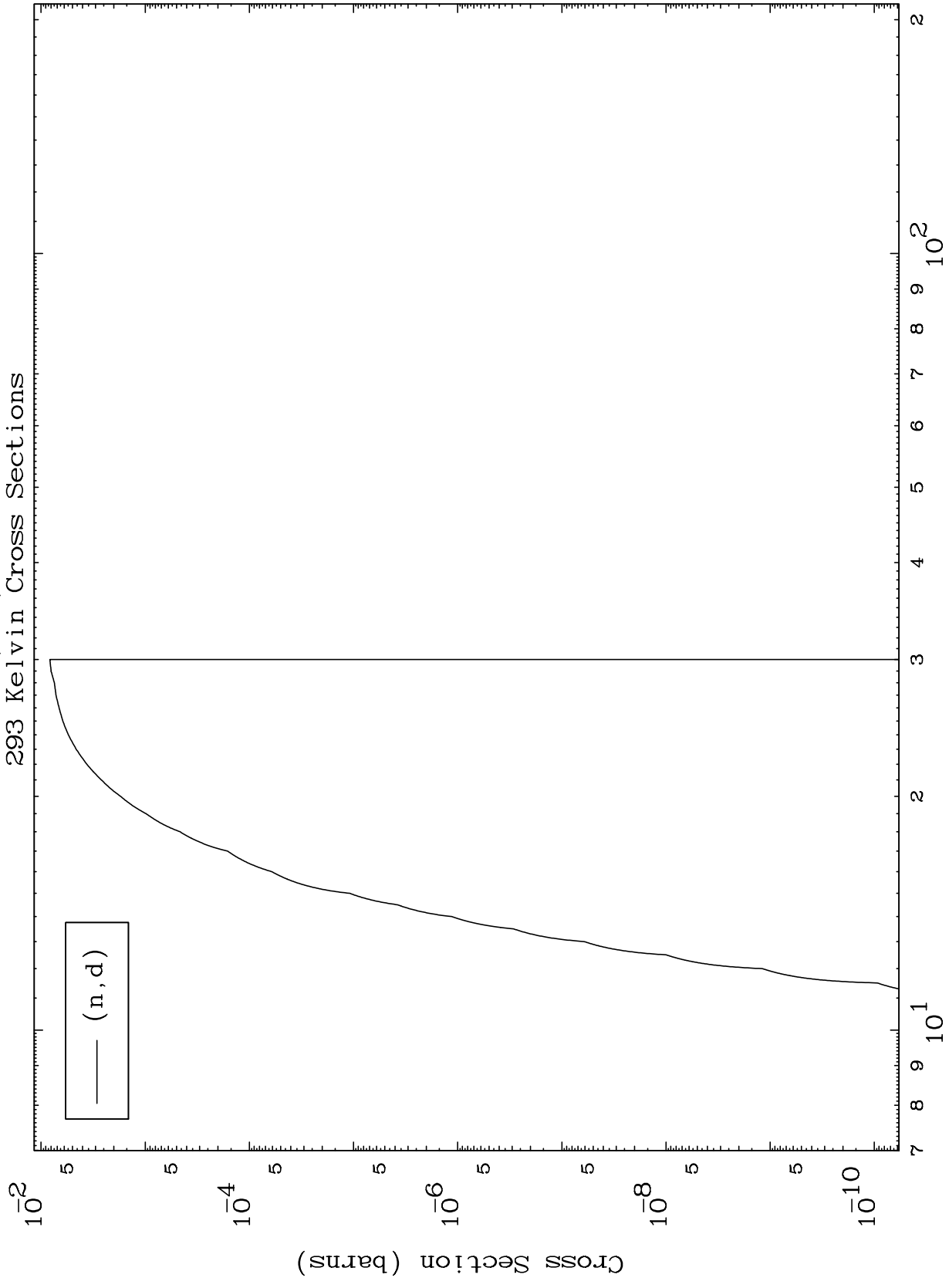
Incident Energy (MeV)

70-Yb-178

MAT 7055

(n,d) Levels
293 Kelvin Cross Sections

70-Yb-178



11

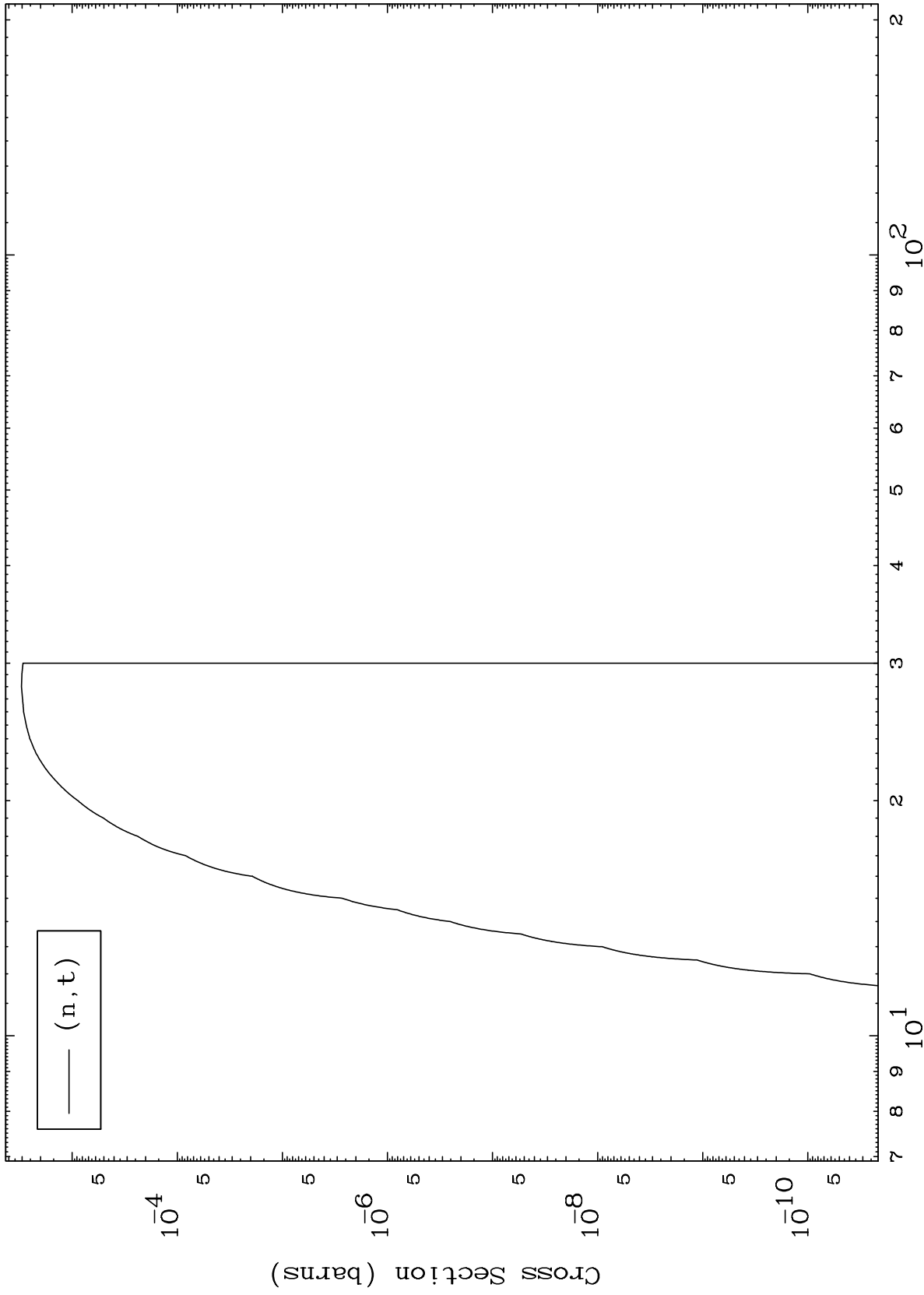
Incident Energy (MeV)

70-Yb-178

MAT 7055

(n,t) Levels
293 Kelvin Cross Sections

70-Yb-178



12

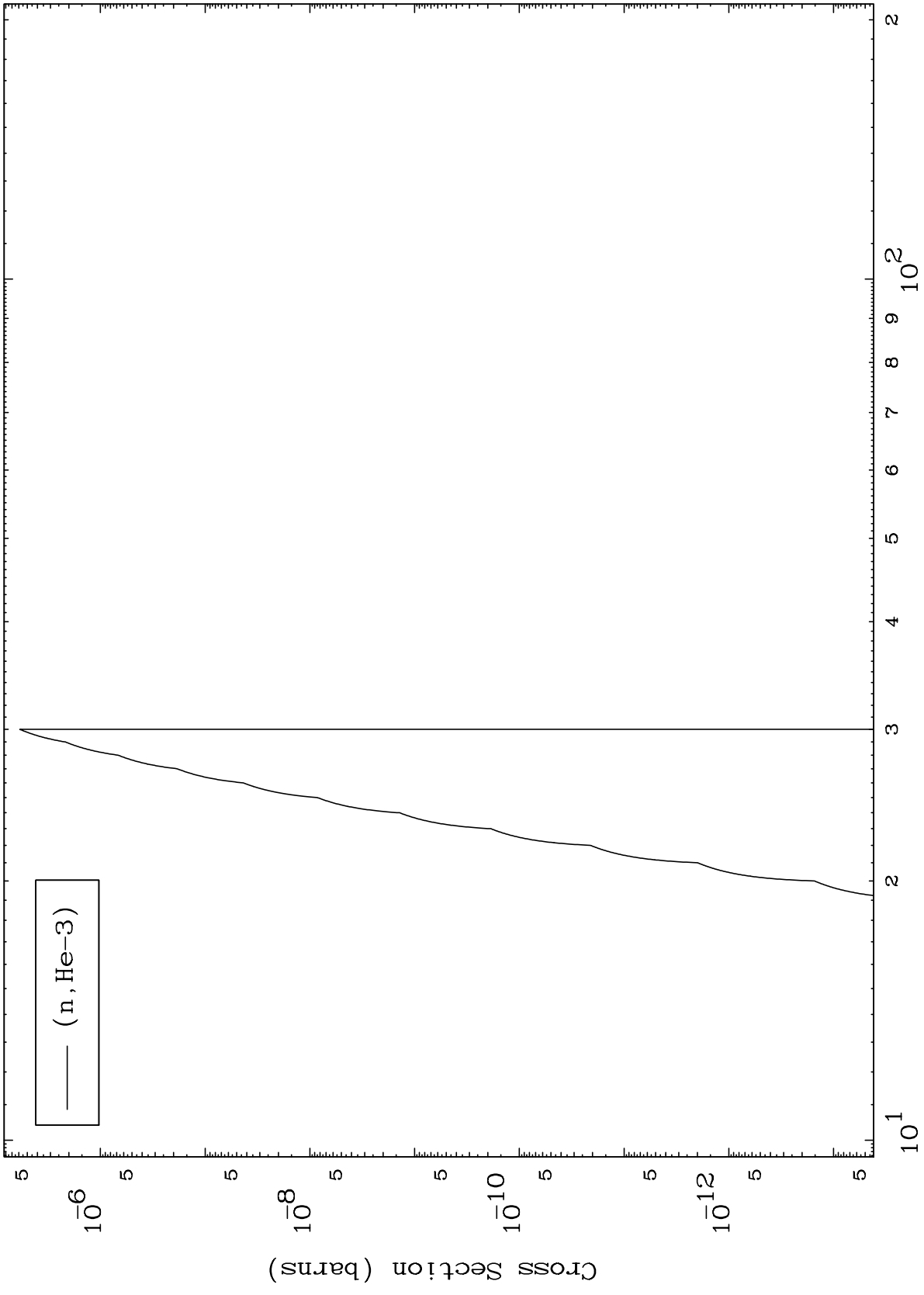
Incident Energy (MeV)

70-Yb-178

MAT 7055

(n,He3) Levels
293 Kelvin Cross Sections

70-Yb-178



(n, He-3)

13

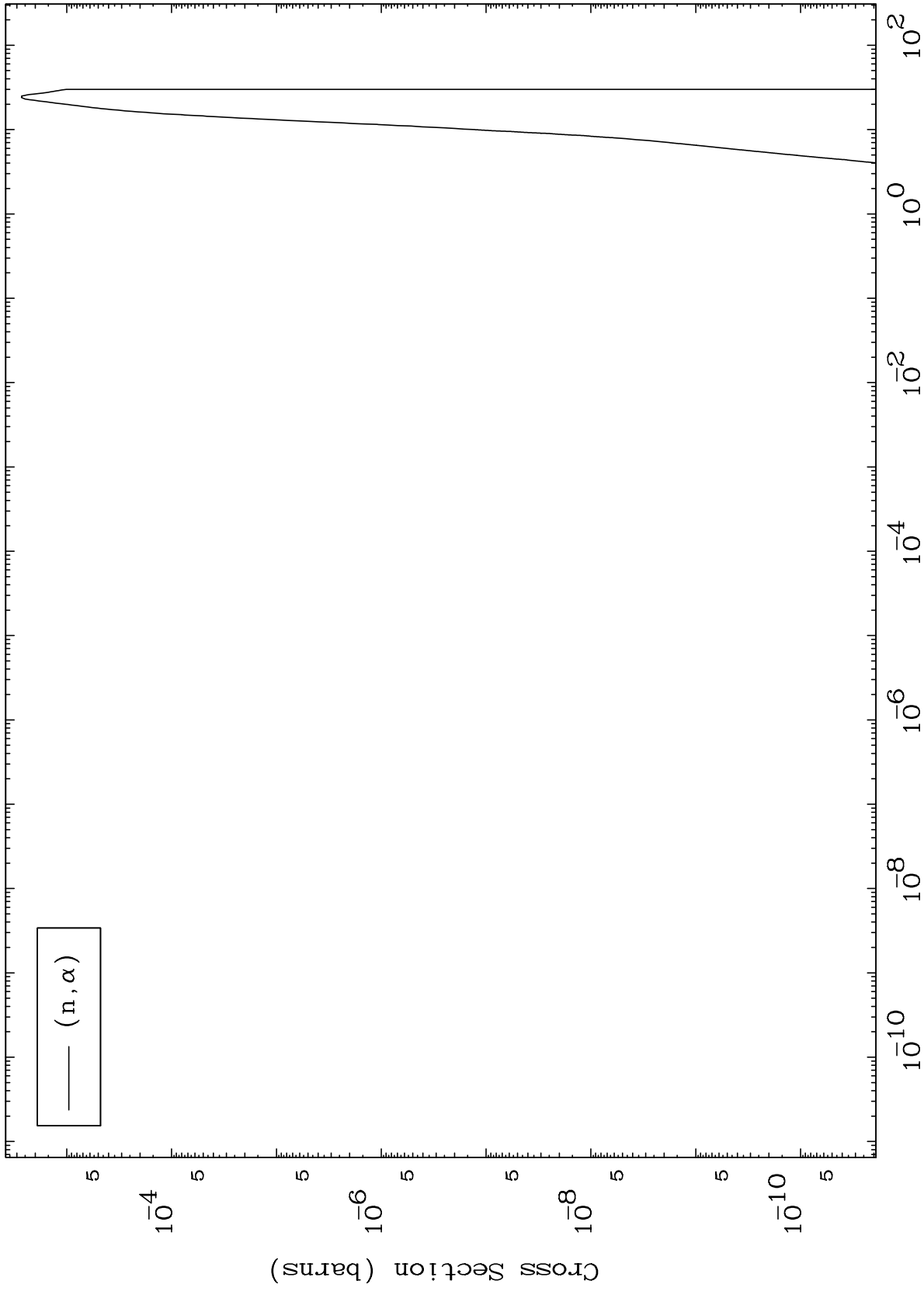
Incident Energy (MeV)

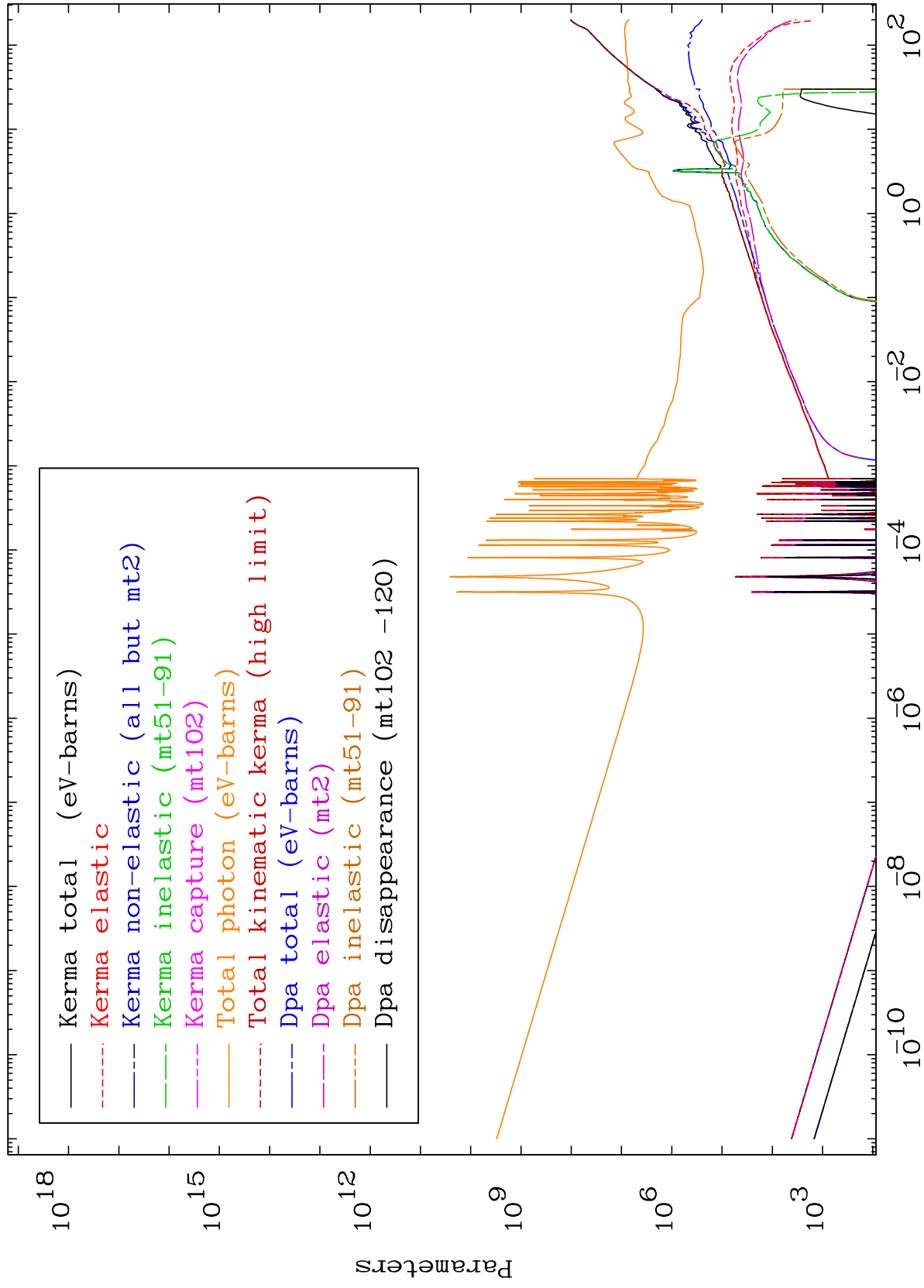
70-Yb-178

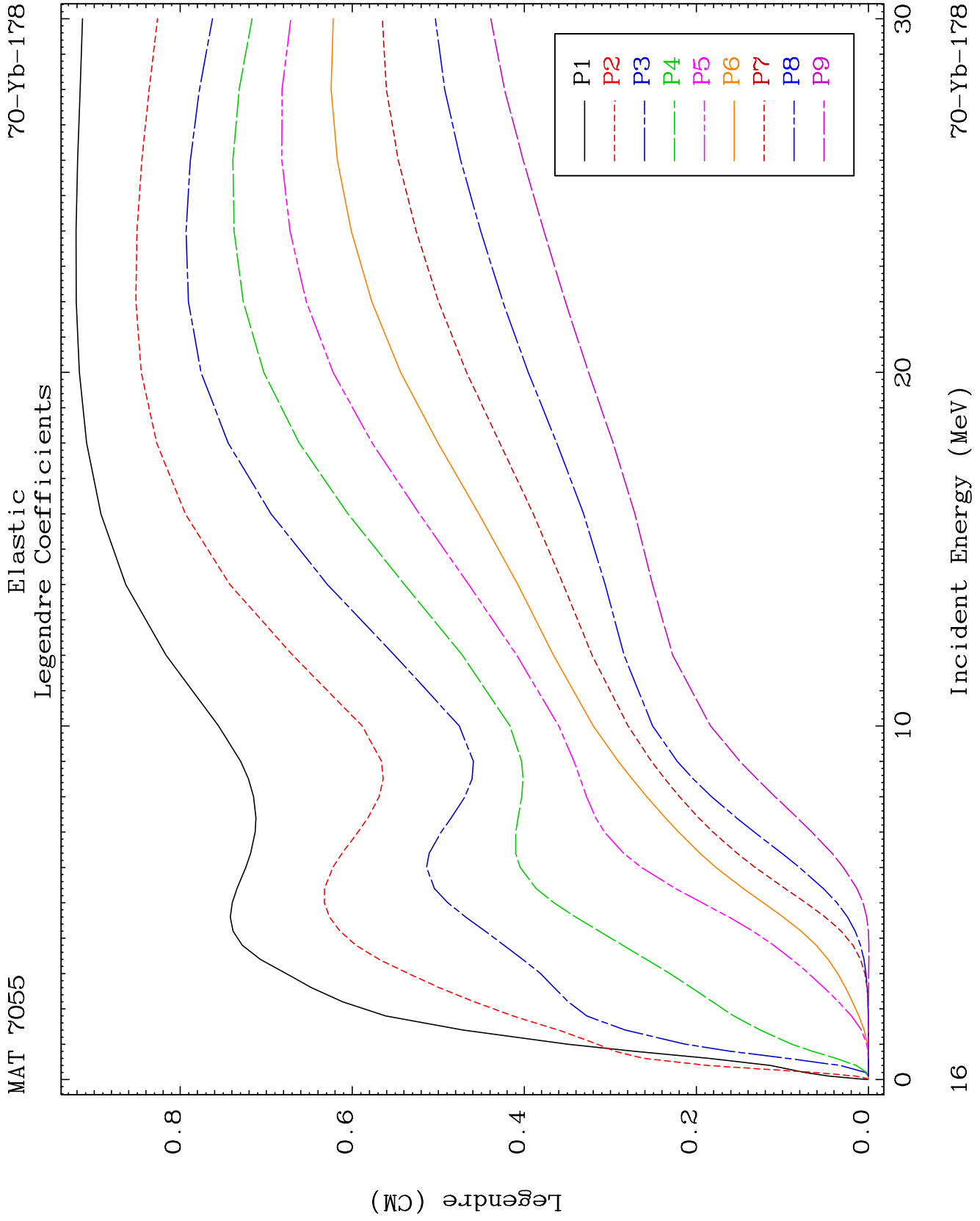
MAT 7055

(n,α) Levels
293 Kelvin Cross Sections

70-Yb-178



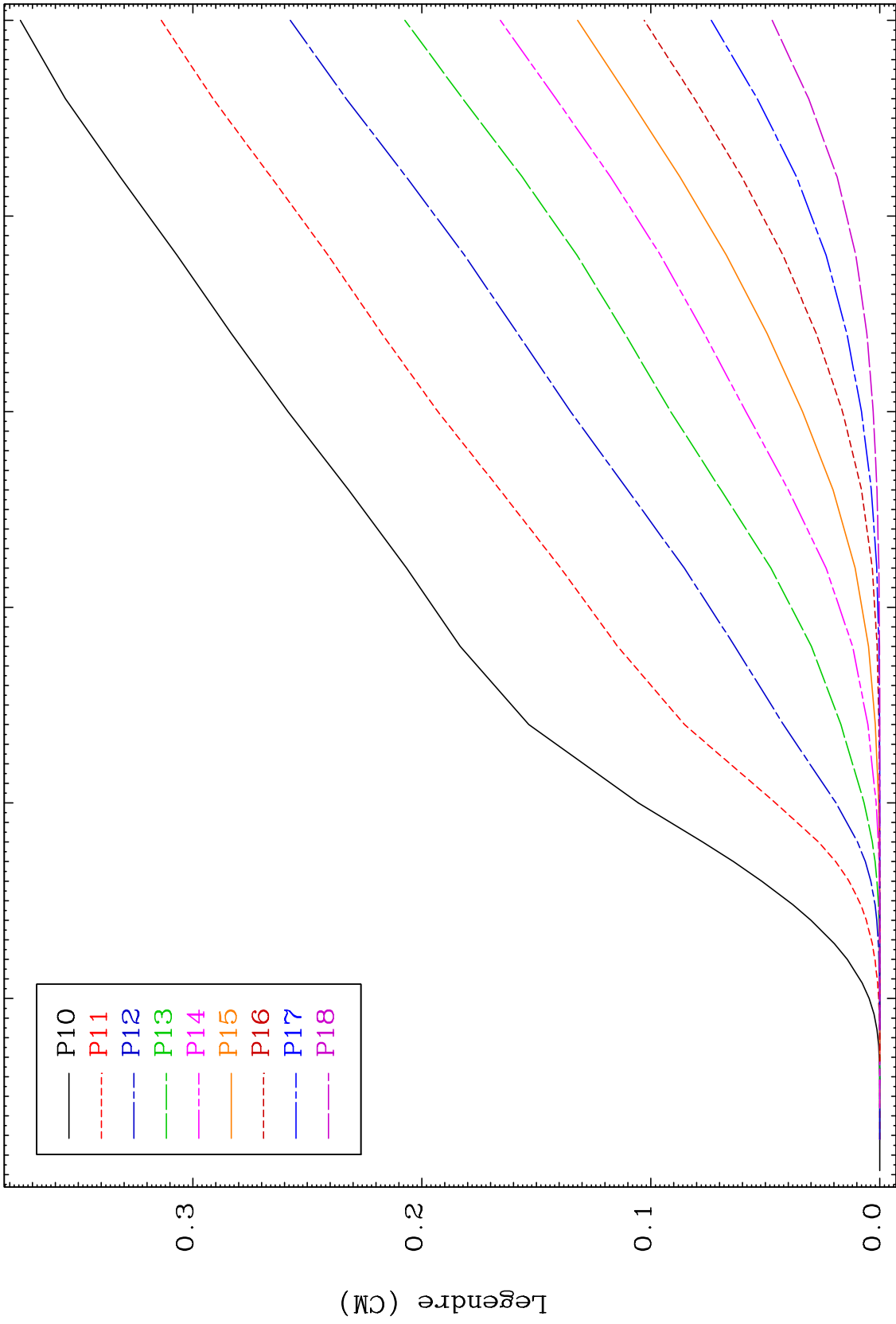




MAT 7055

Elastic Legendre Coefficients

70-Yb-178



17

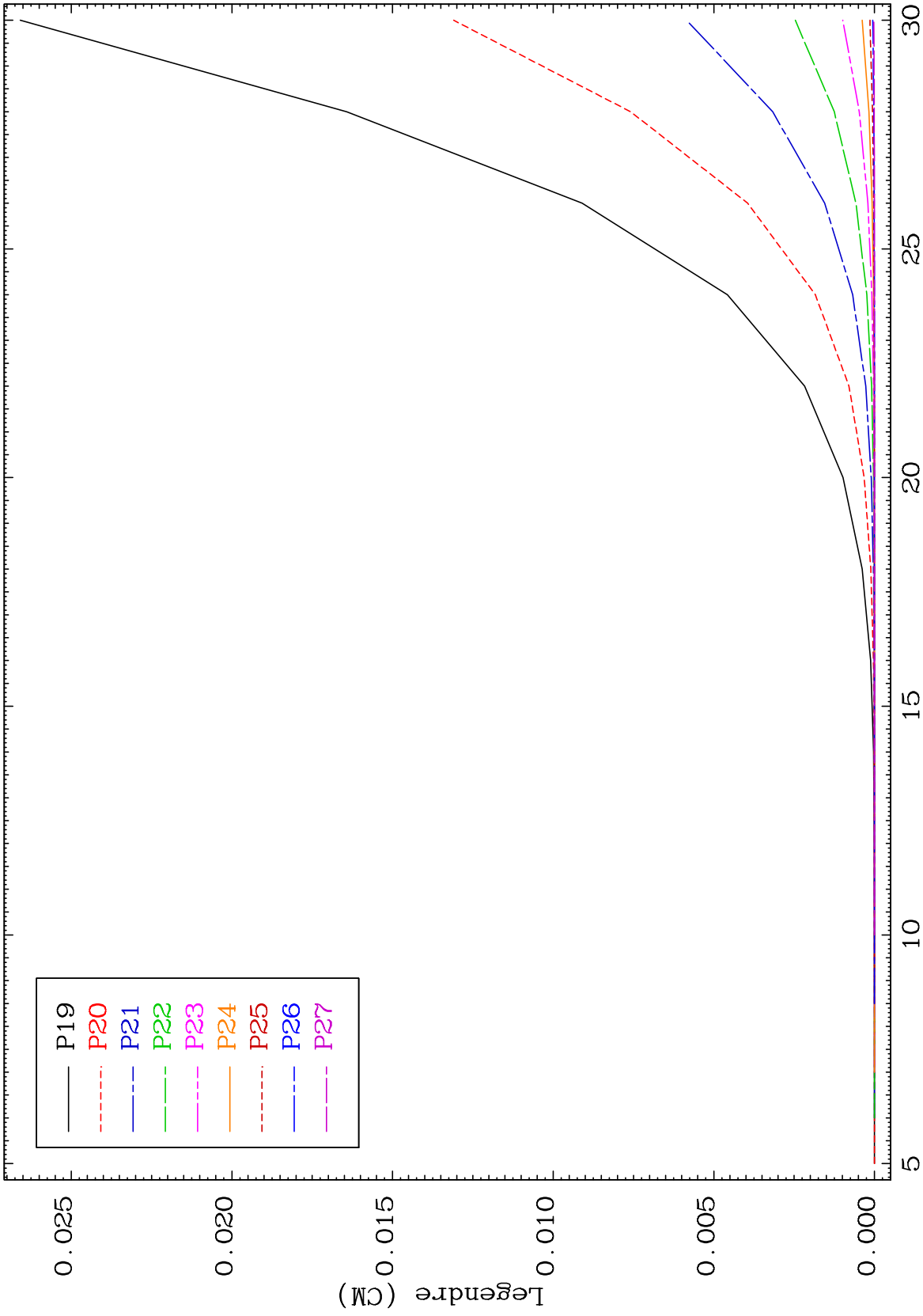
Incident Energy (MeV)

70-Yb-178

MAT 7055

Elastic Legendre Coefficients

70-Yb-178



18

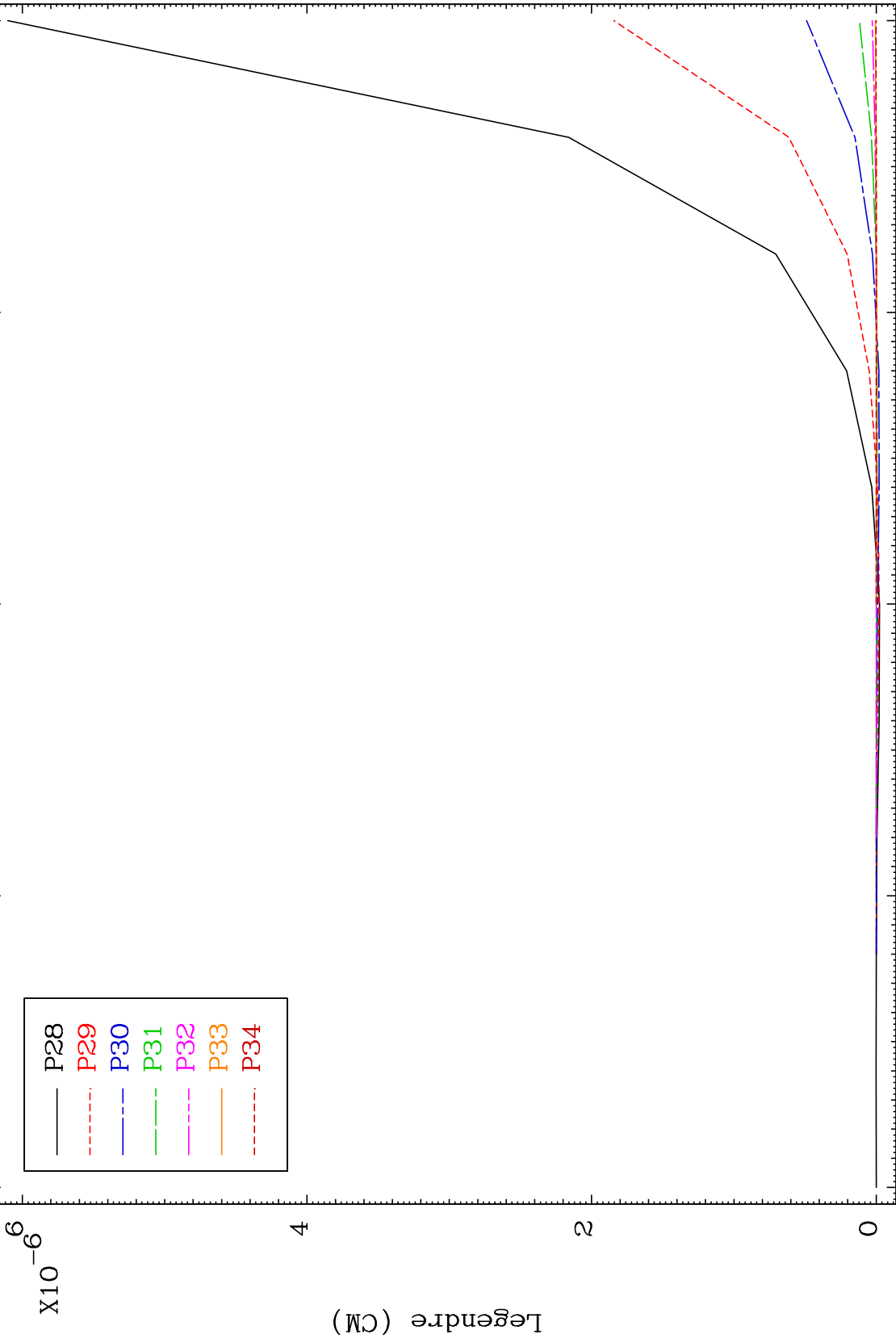
Incident Energy (MeV)

70-Yb-178

MAT 7055

Elastic Legendre Coefficients

70-Yb-178



19

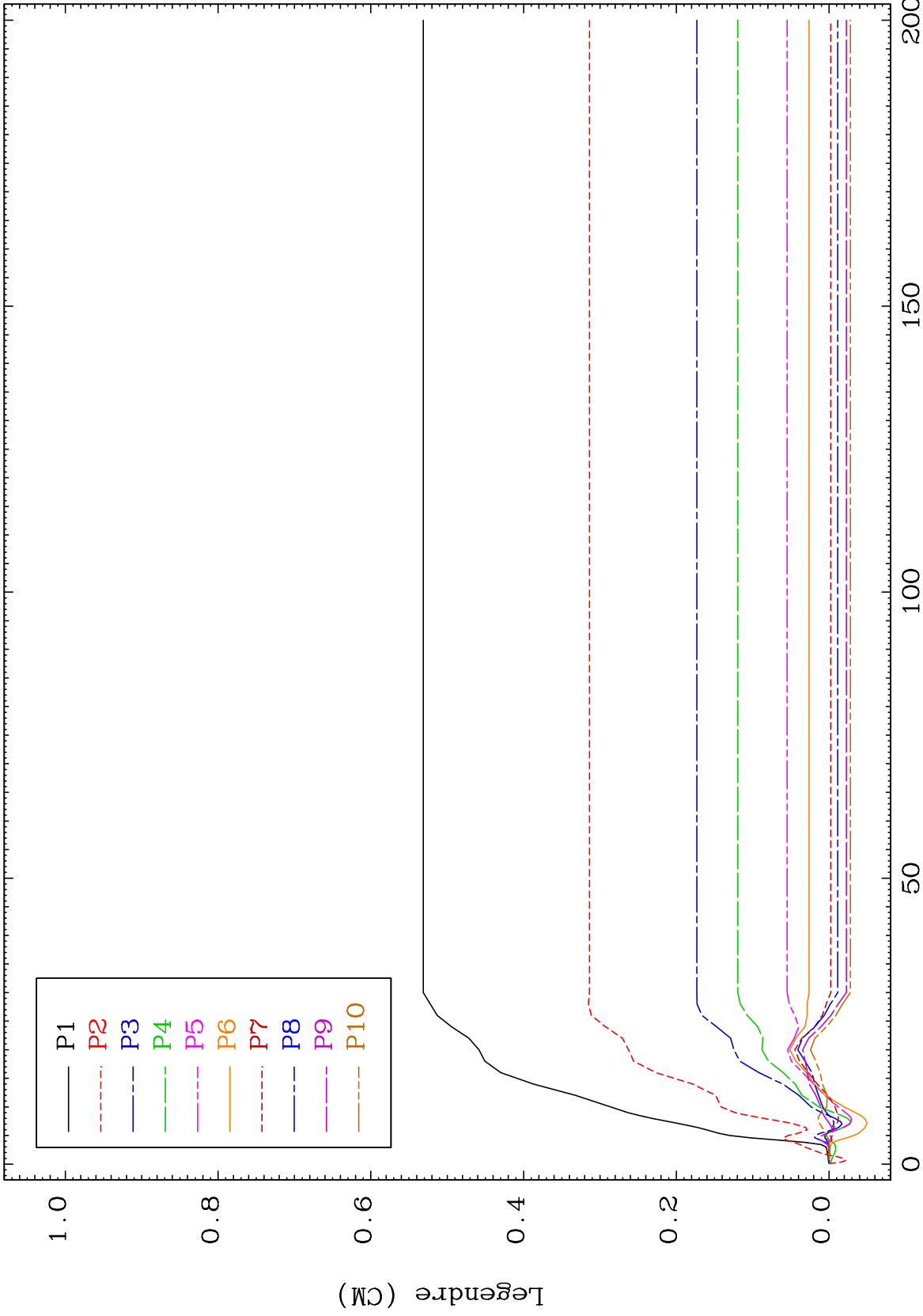
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



0

50

100

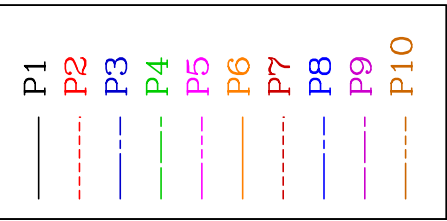
150

200

Incident Energy (MeV)

70-Yb-178

Legendre (CM)



1.0

0.8

0.6

0.4

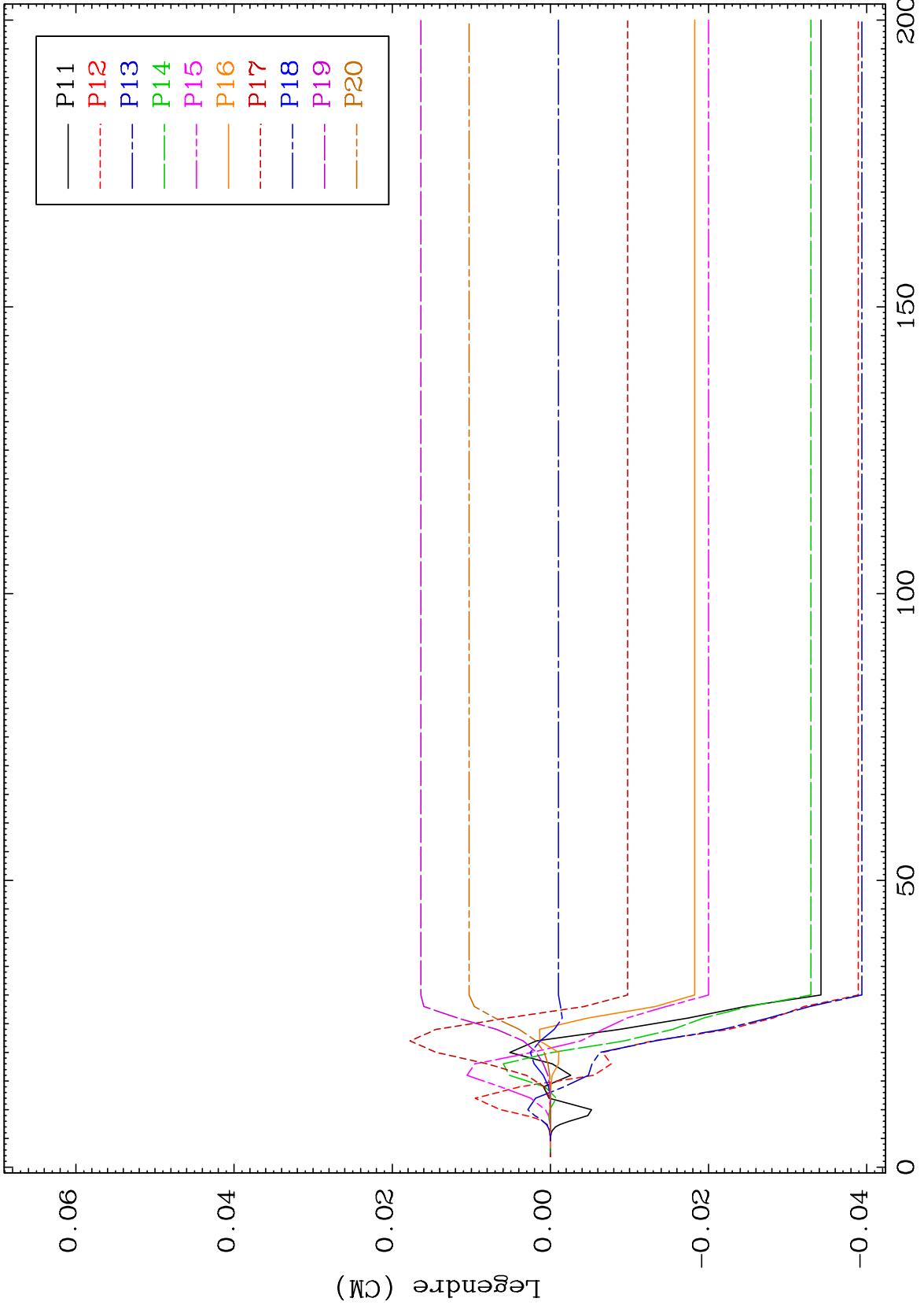
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0.0

MAT 7055

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

70-Yb-178



21

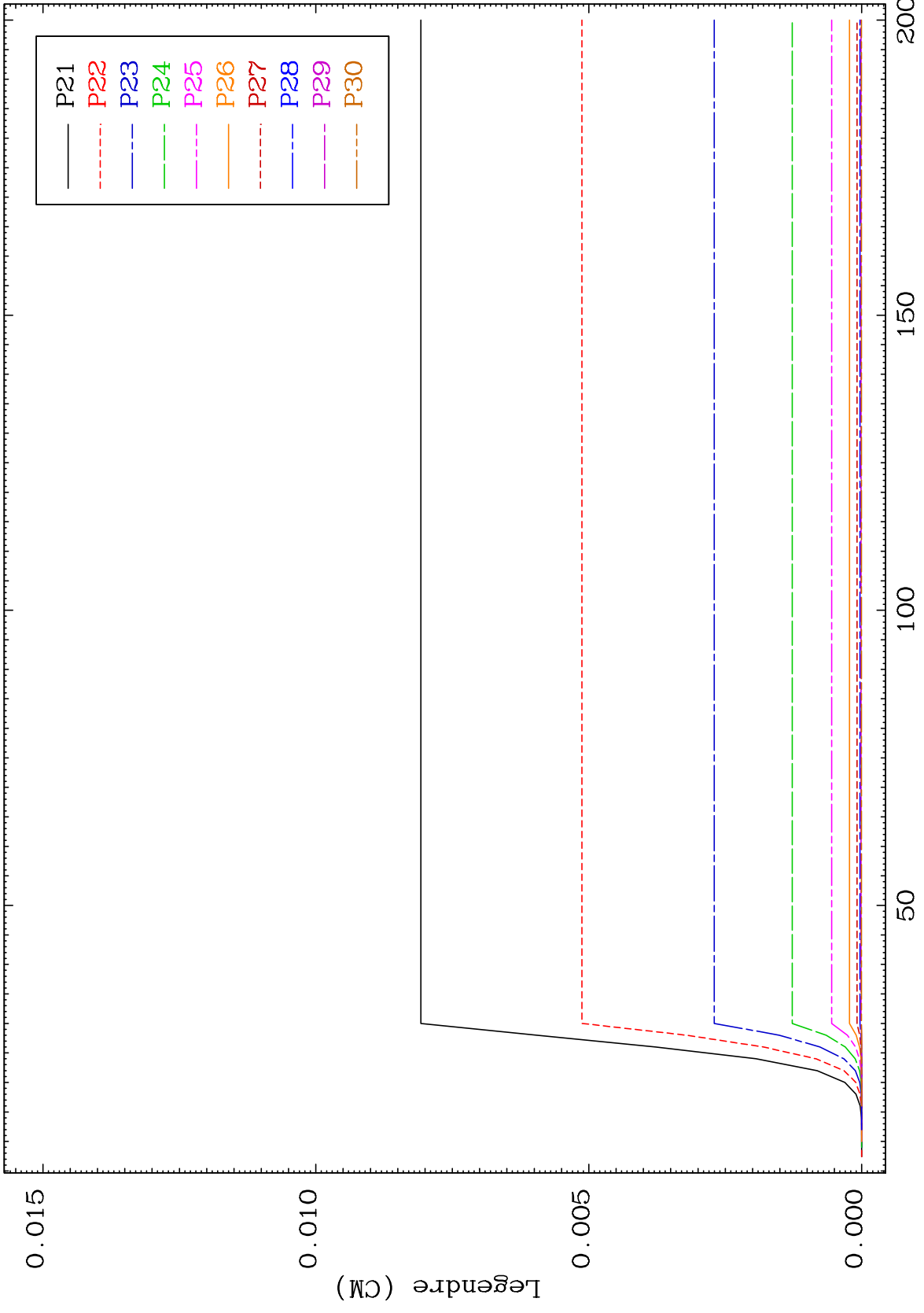
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



22

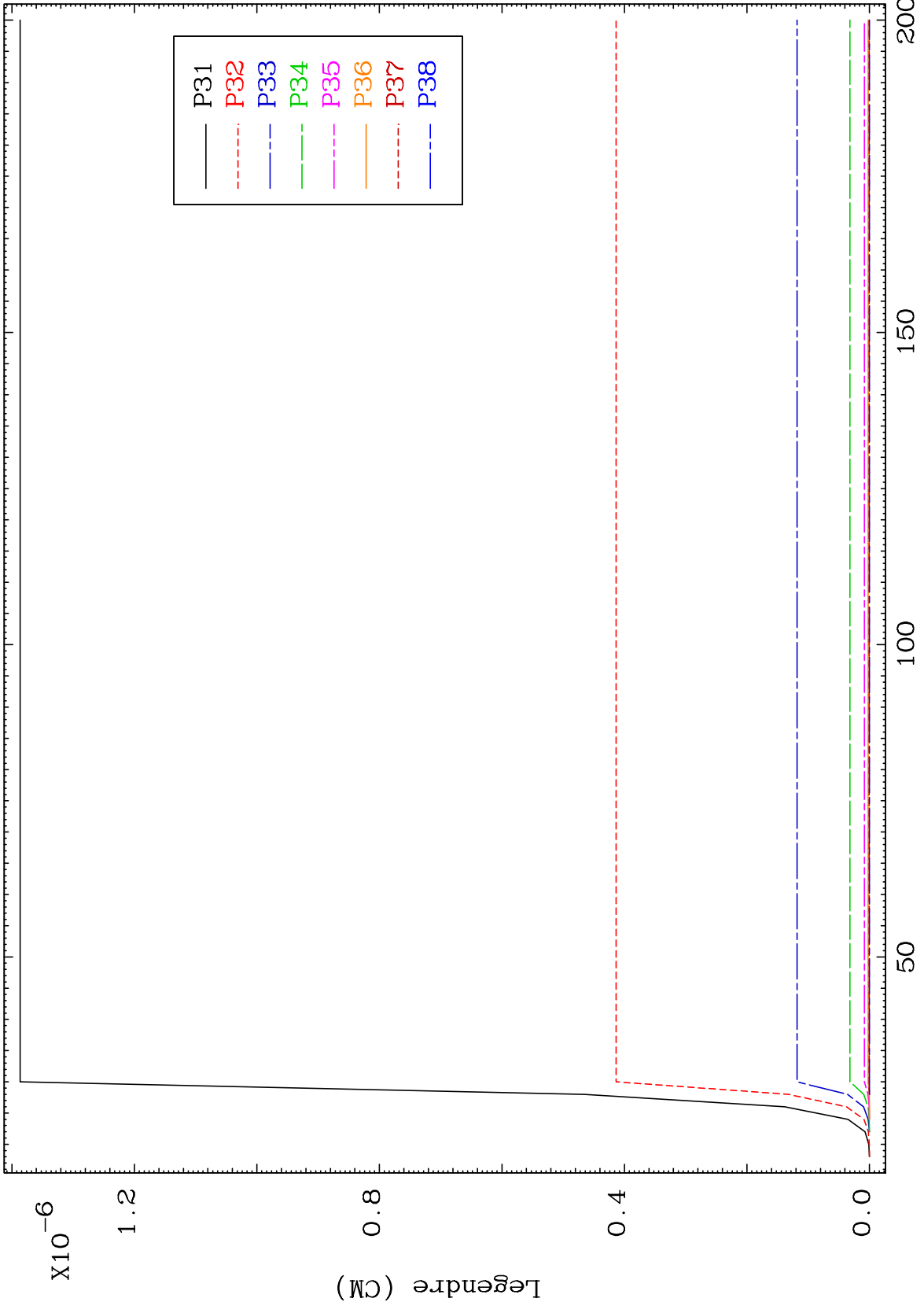
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



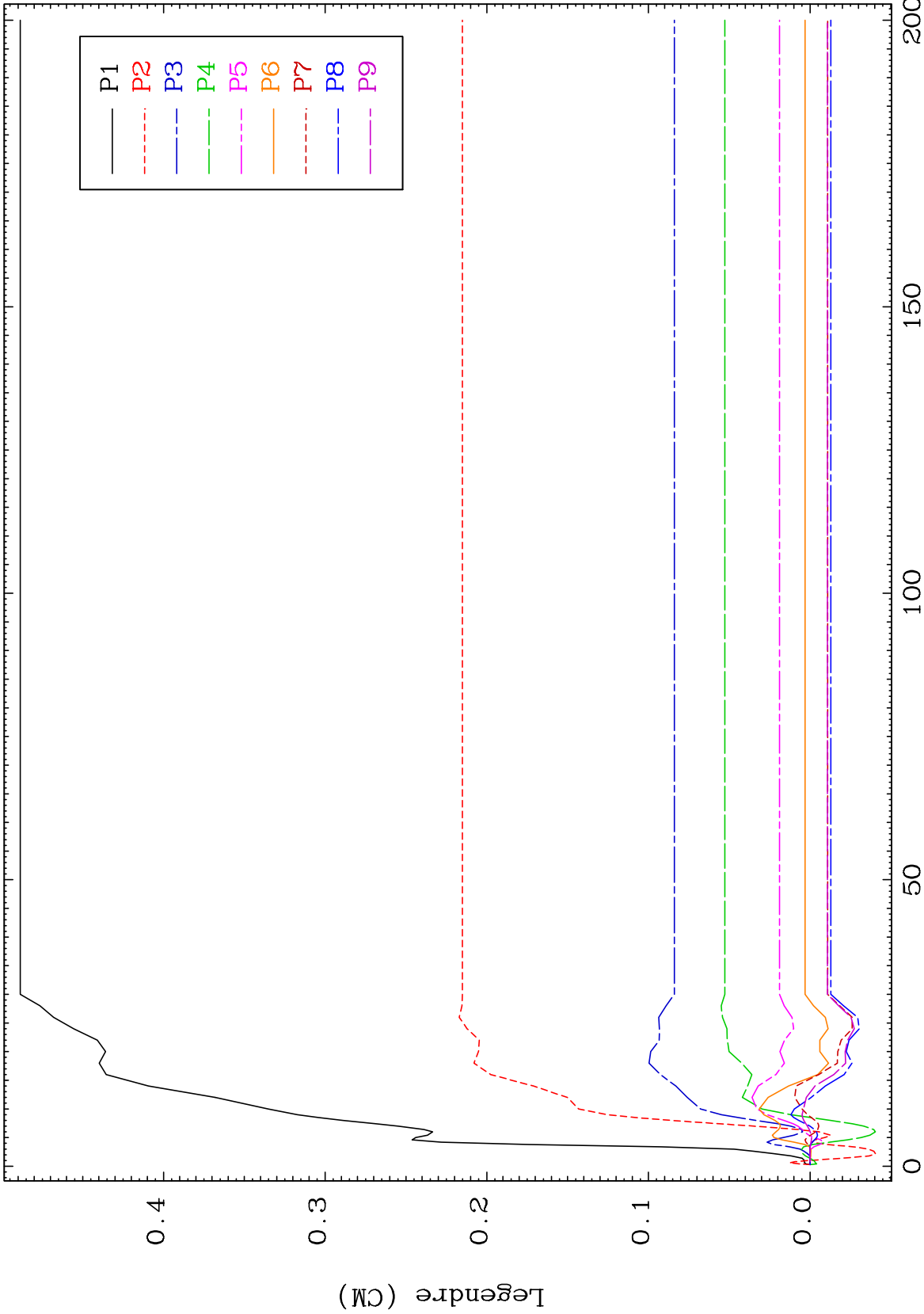
23

70-Yb-178

MAT 7055

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

70-Yb-178



24

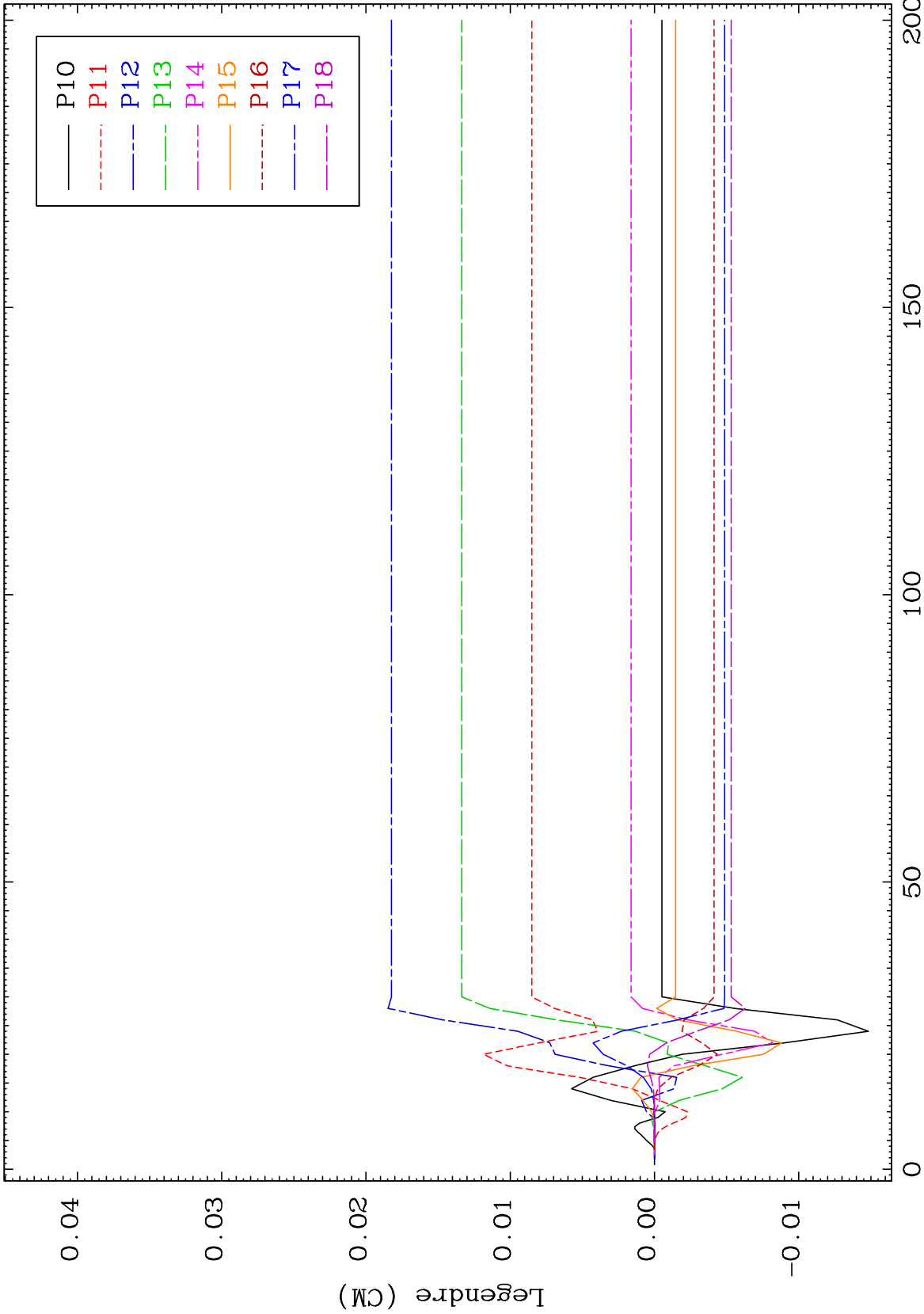
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



25

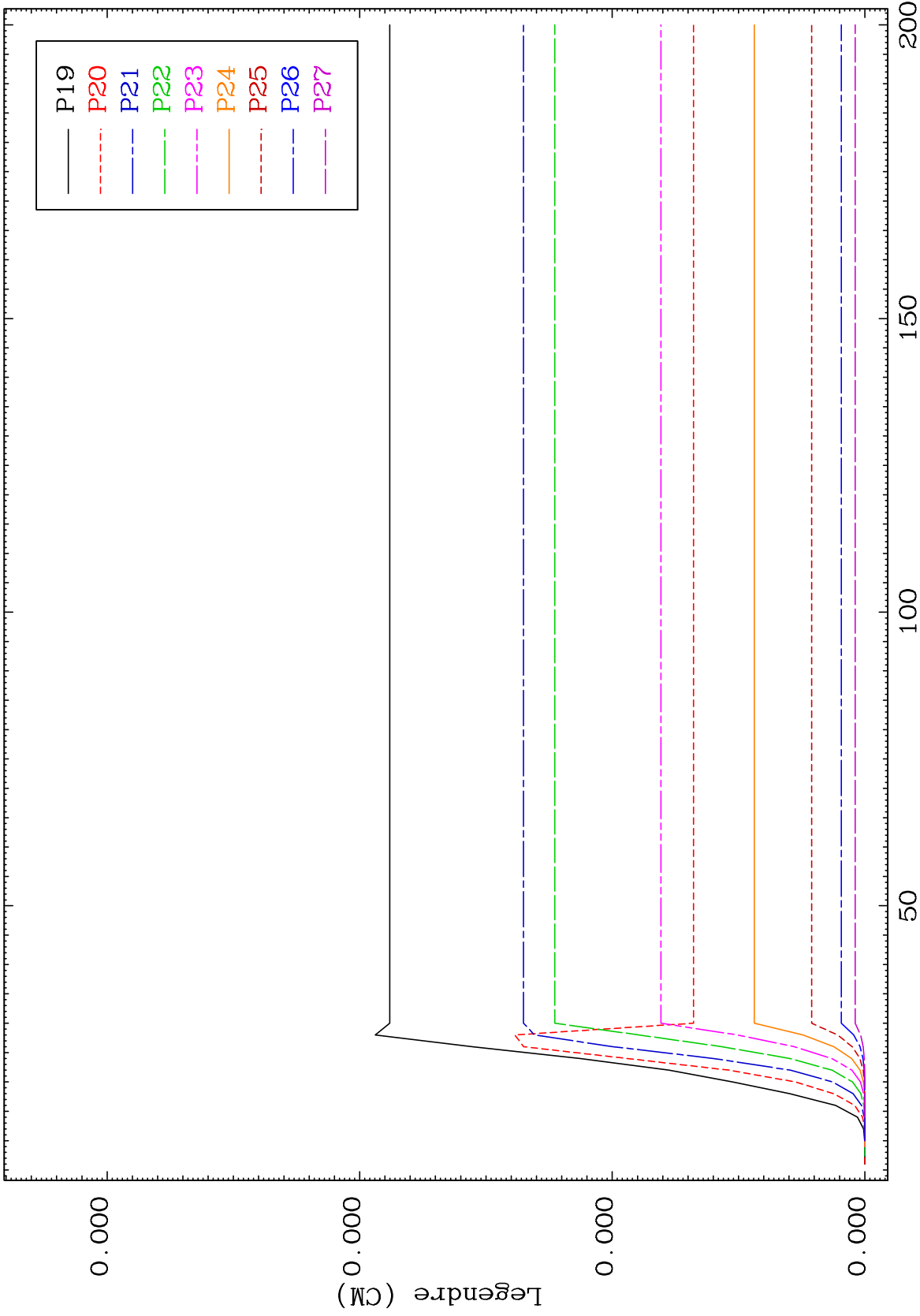
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



26

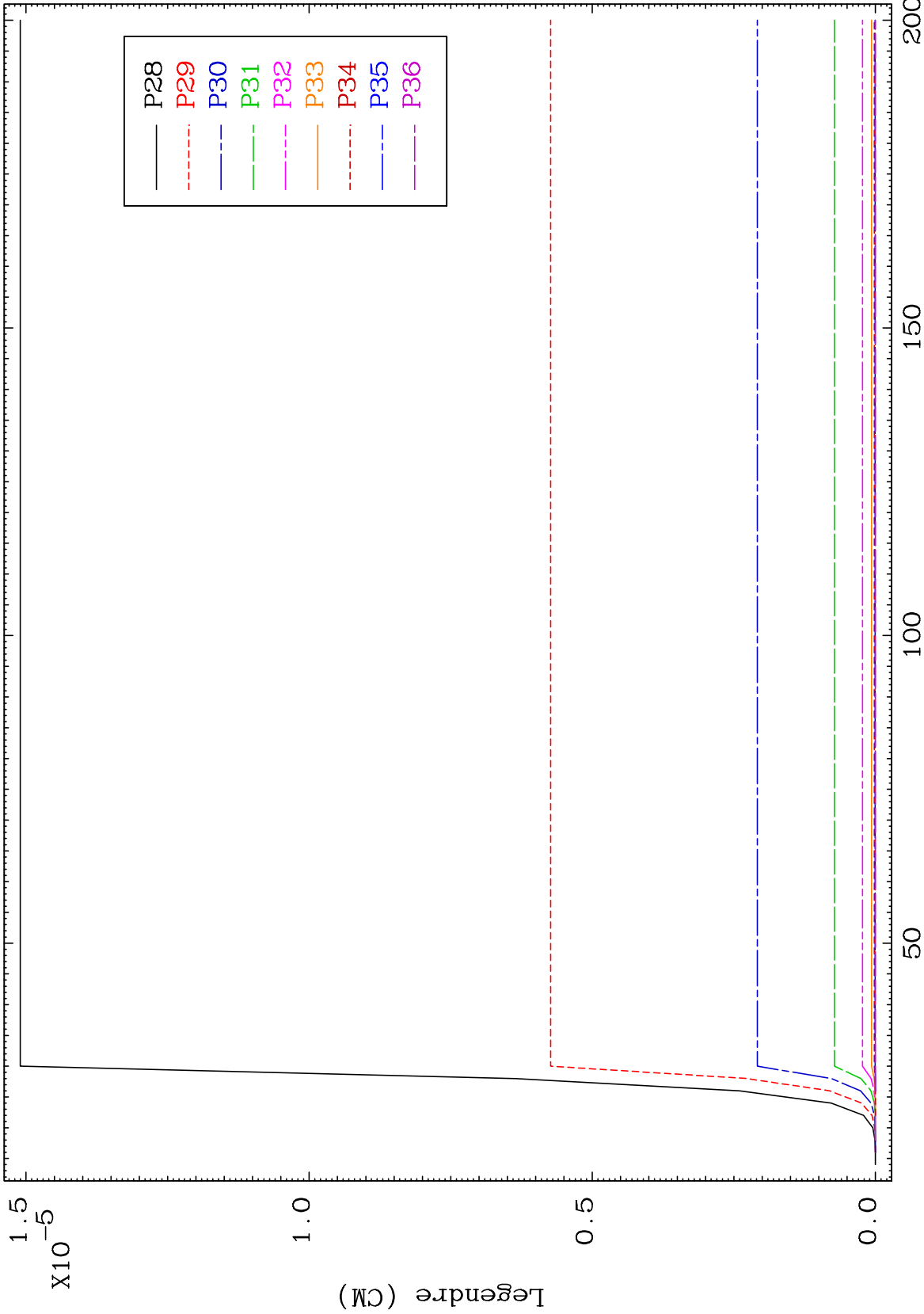
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



27

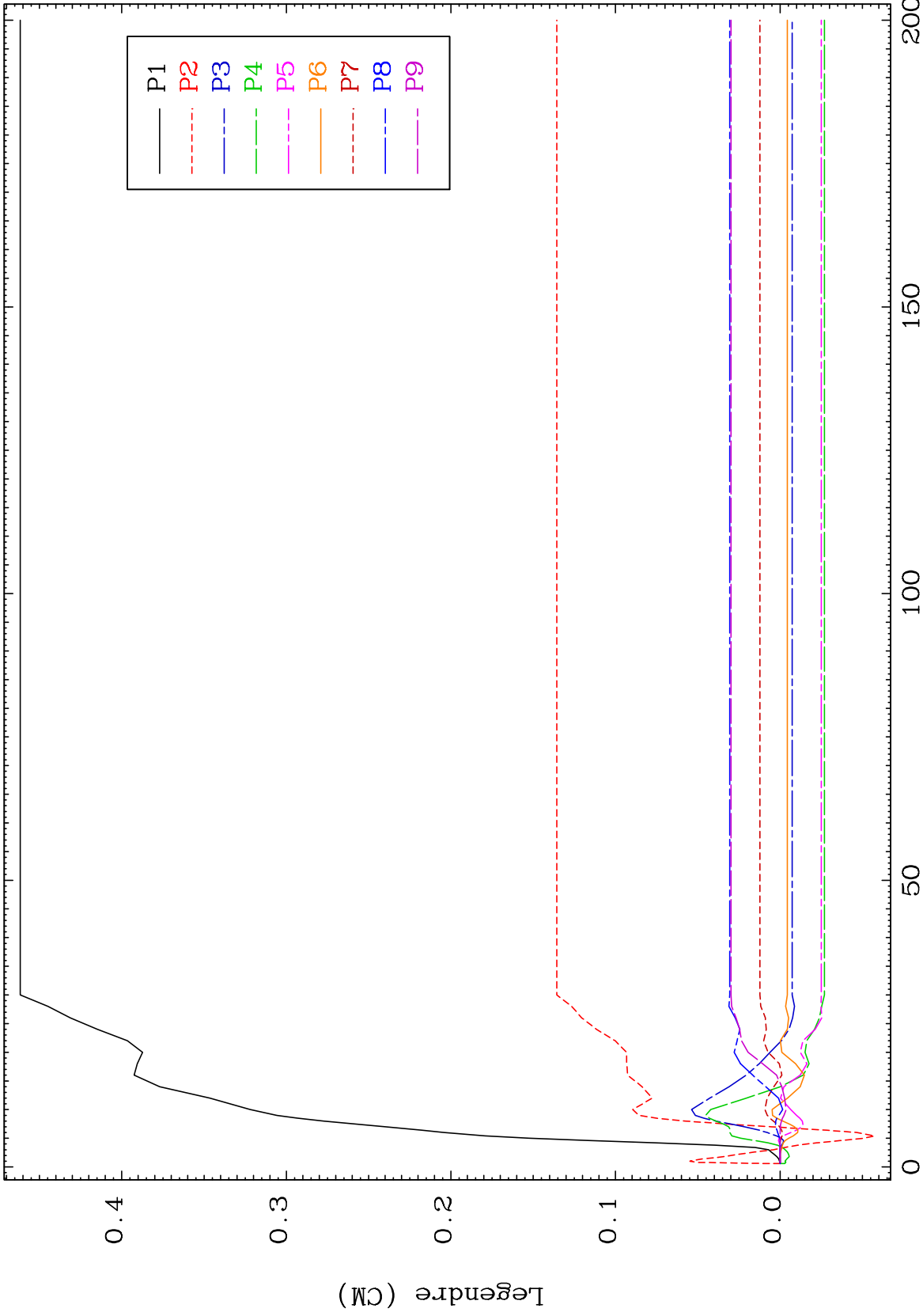
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



28

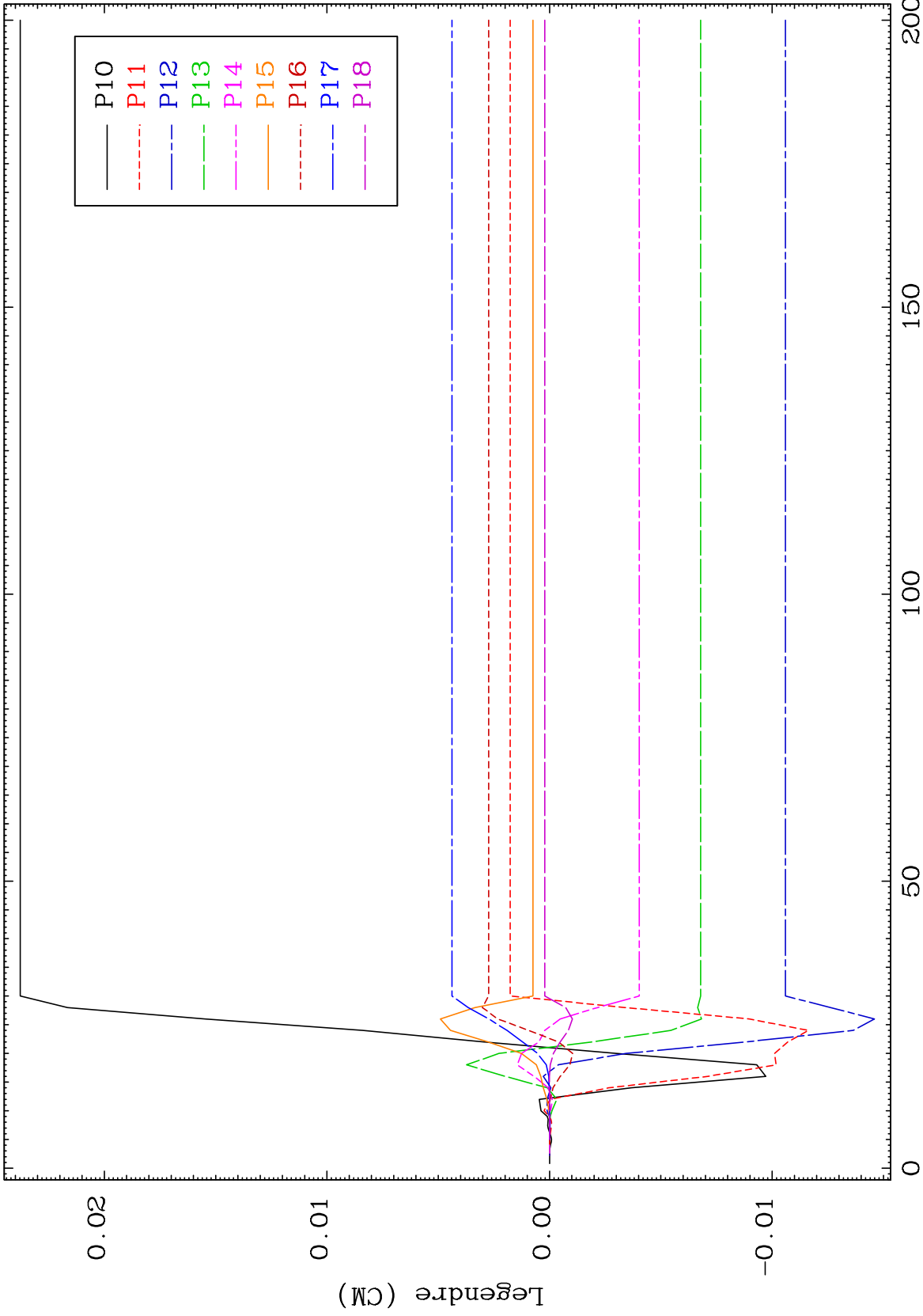
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



29

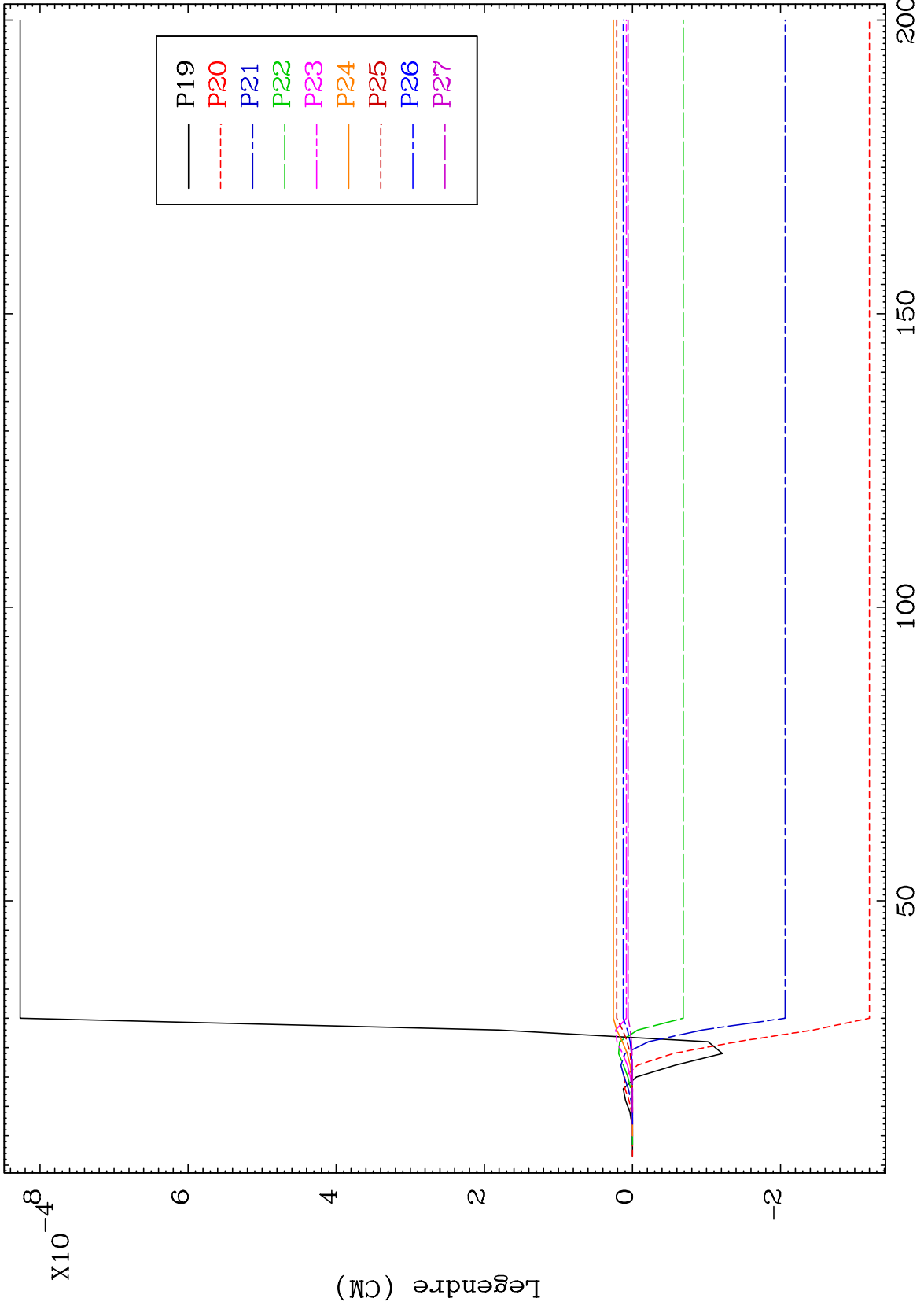
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



30

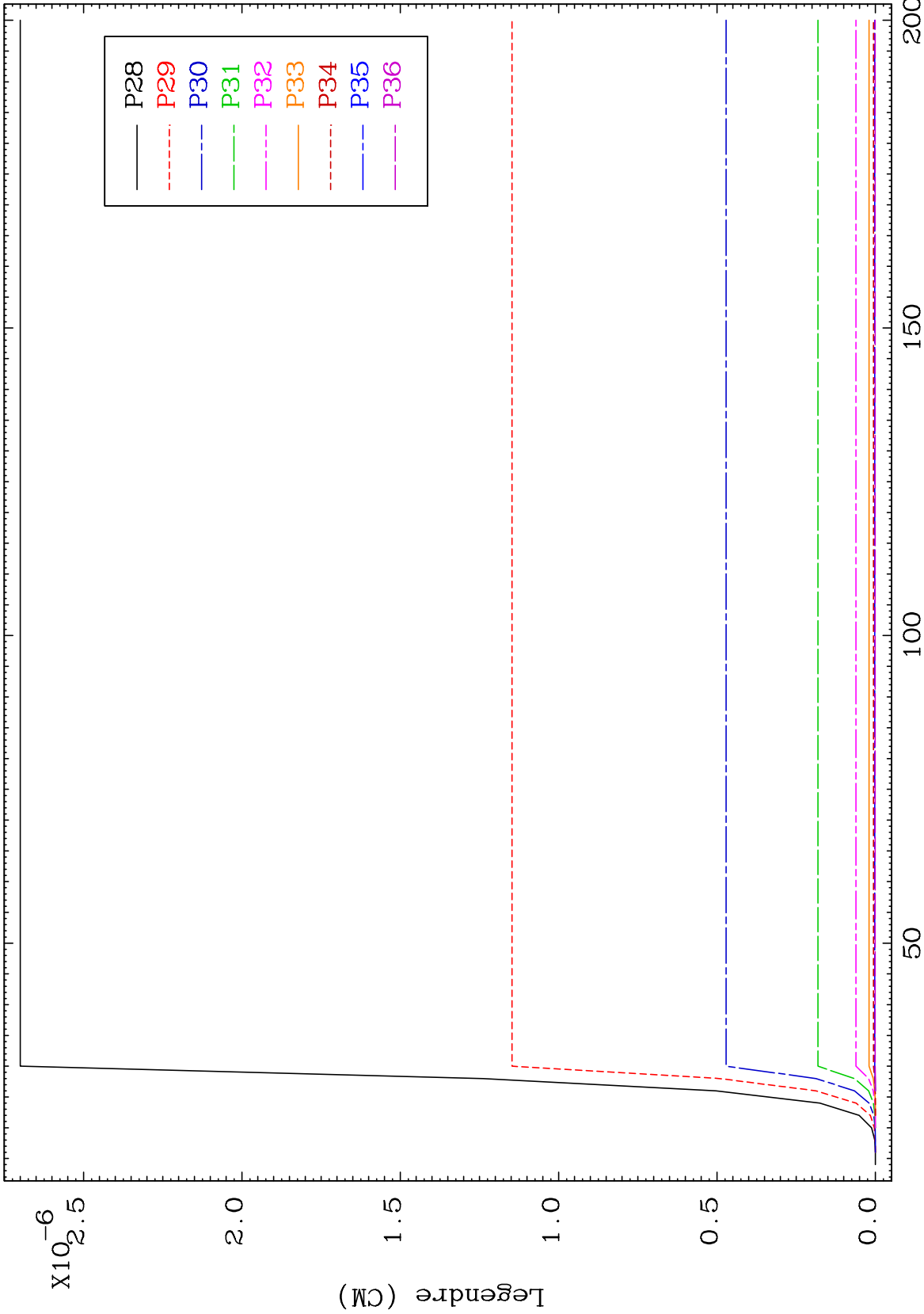
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



31

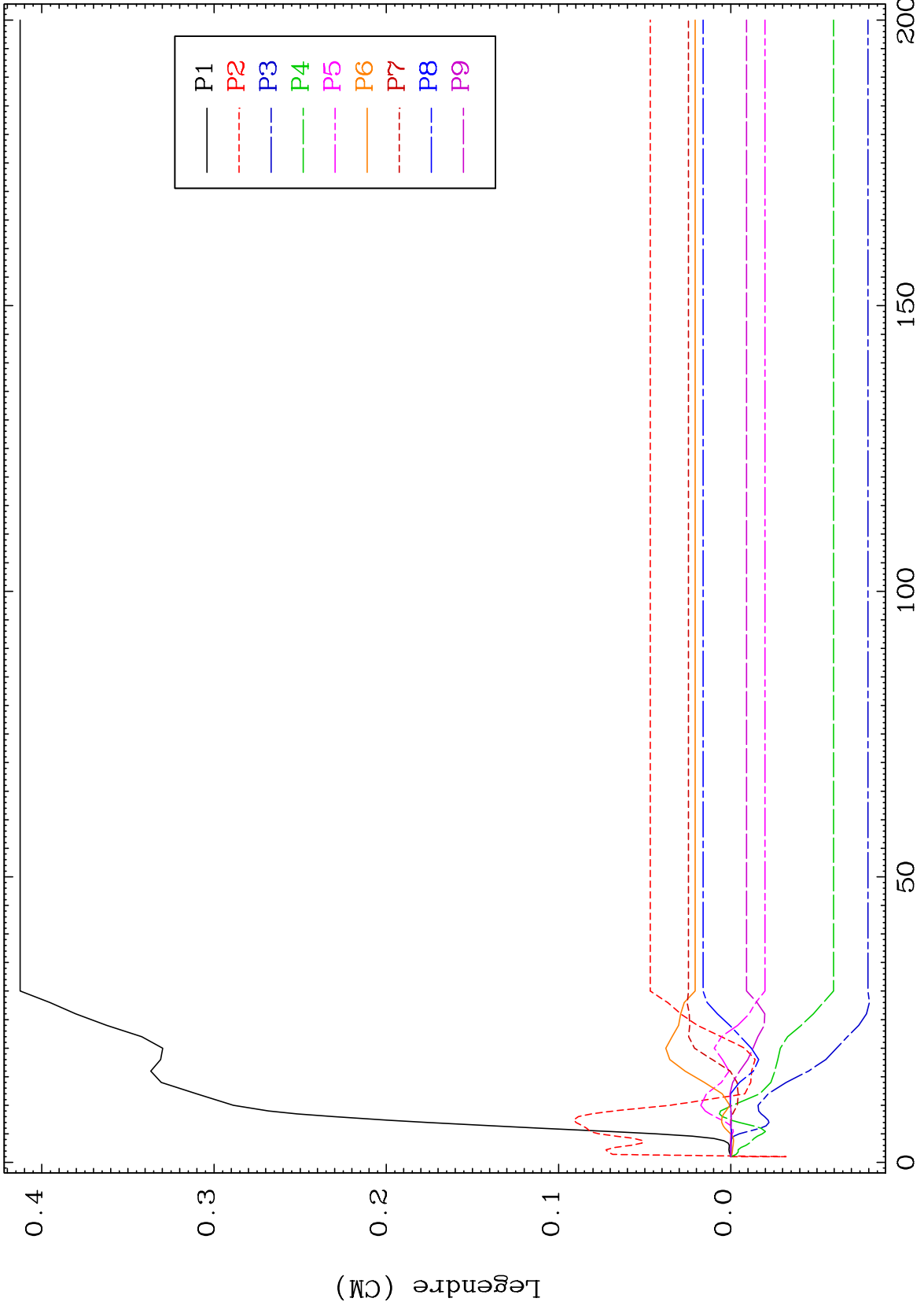
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178

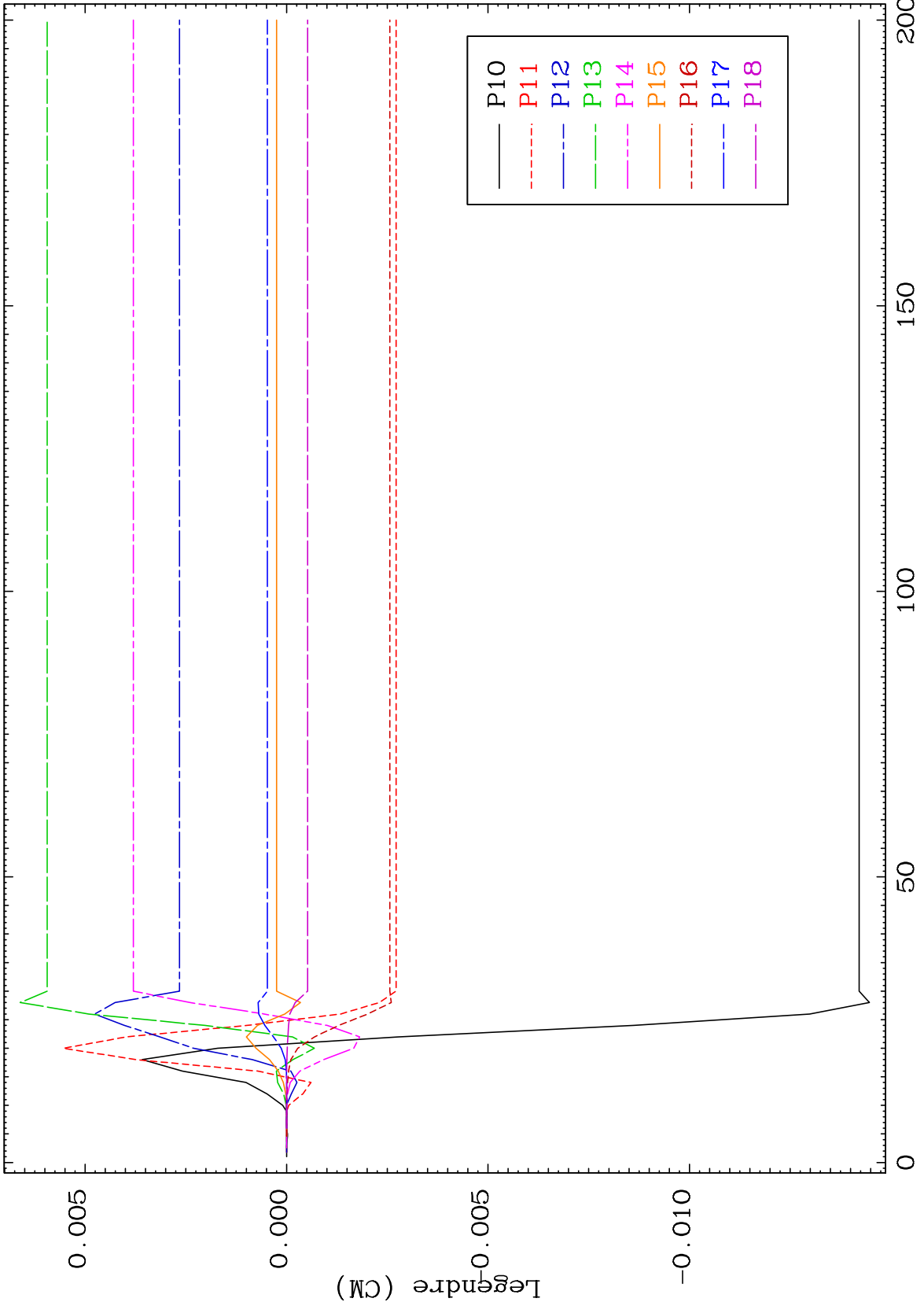


32

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 54 (n,n') Level Legendre Coefficients 70-Yb-178

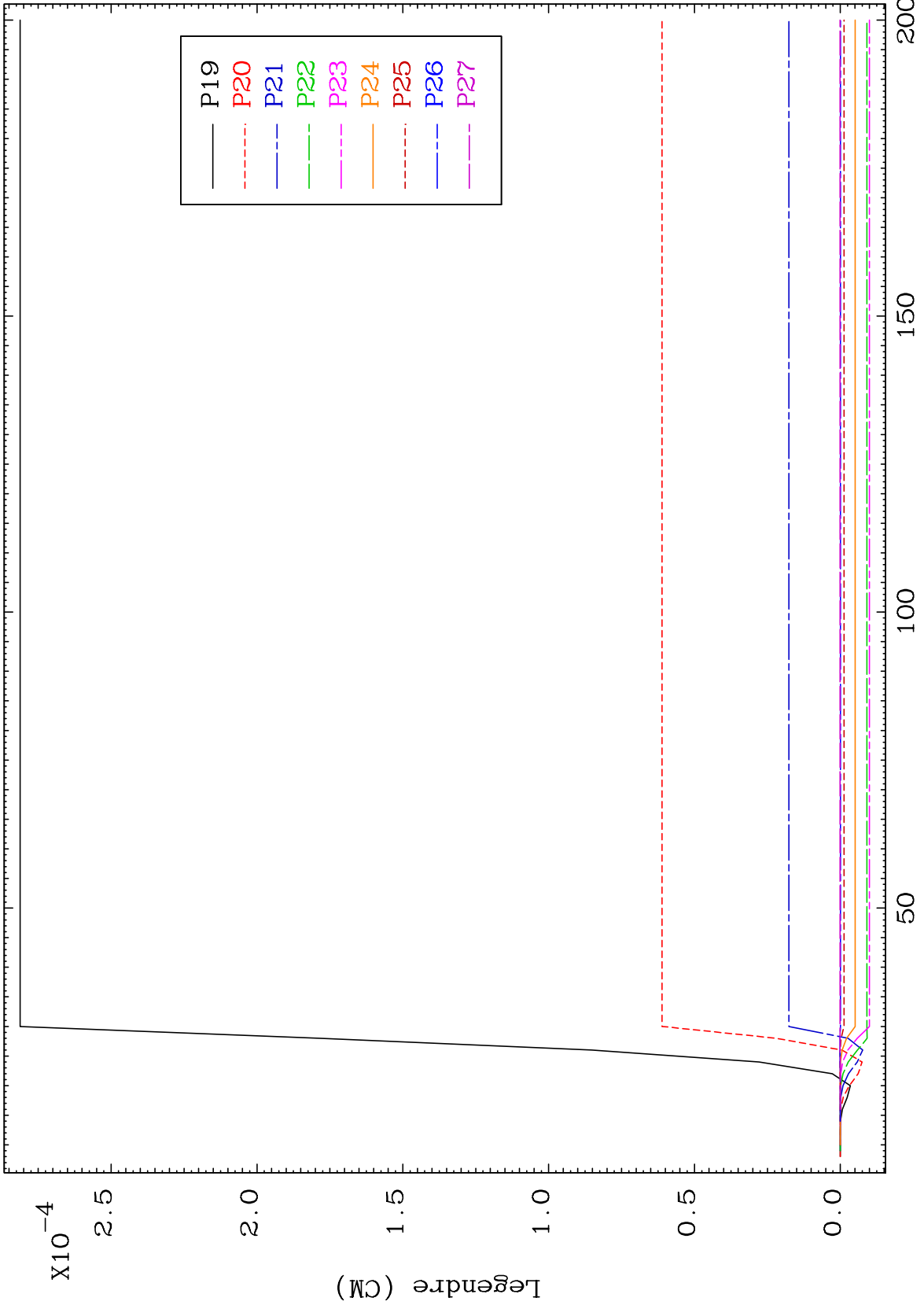


33 70-Yb-178

MAT 7055

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

70-Yb-178



34

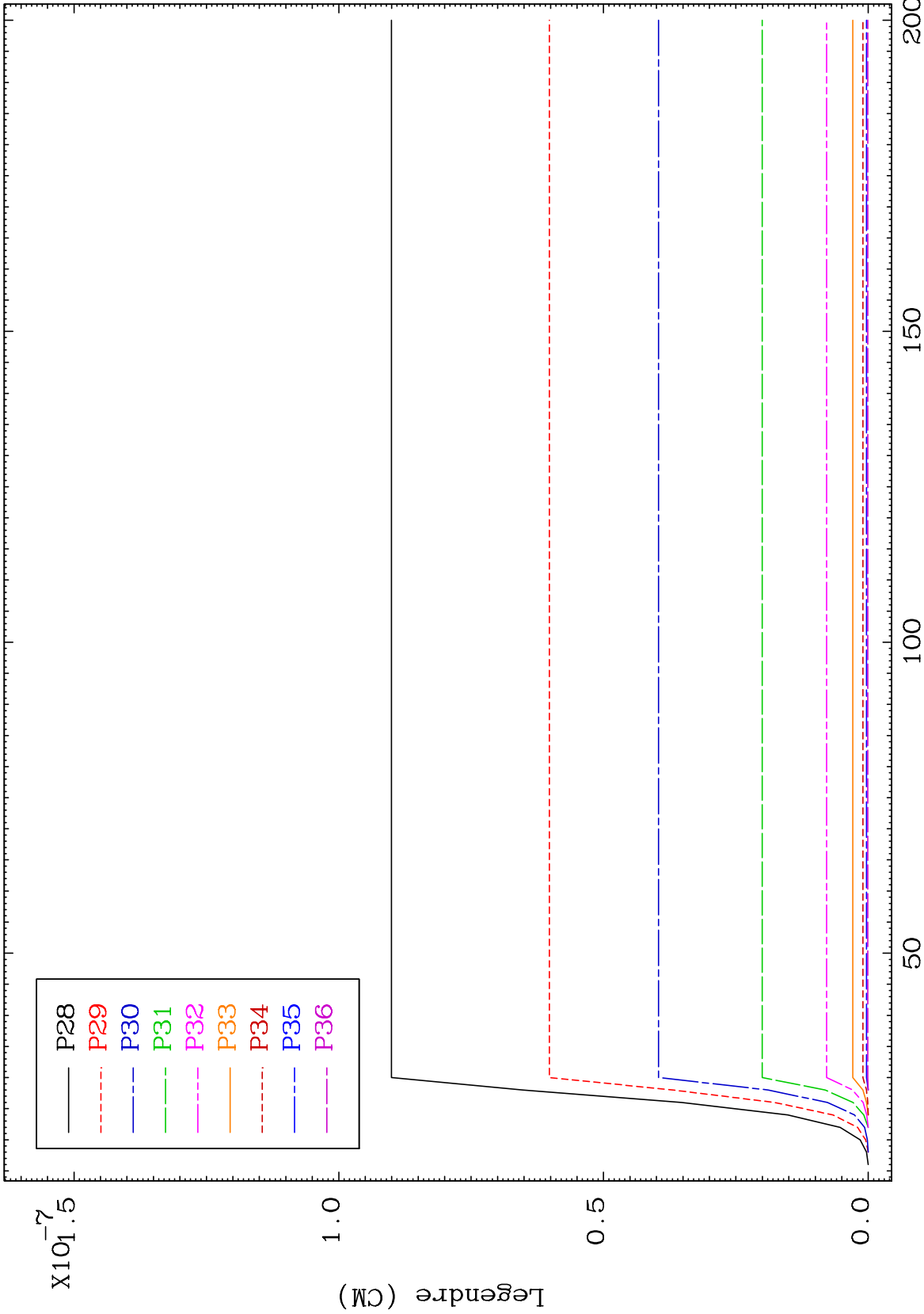
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



35

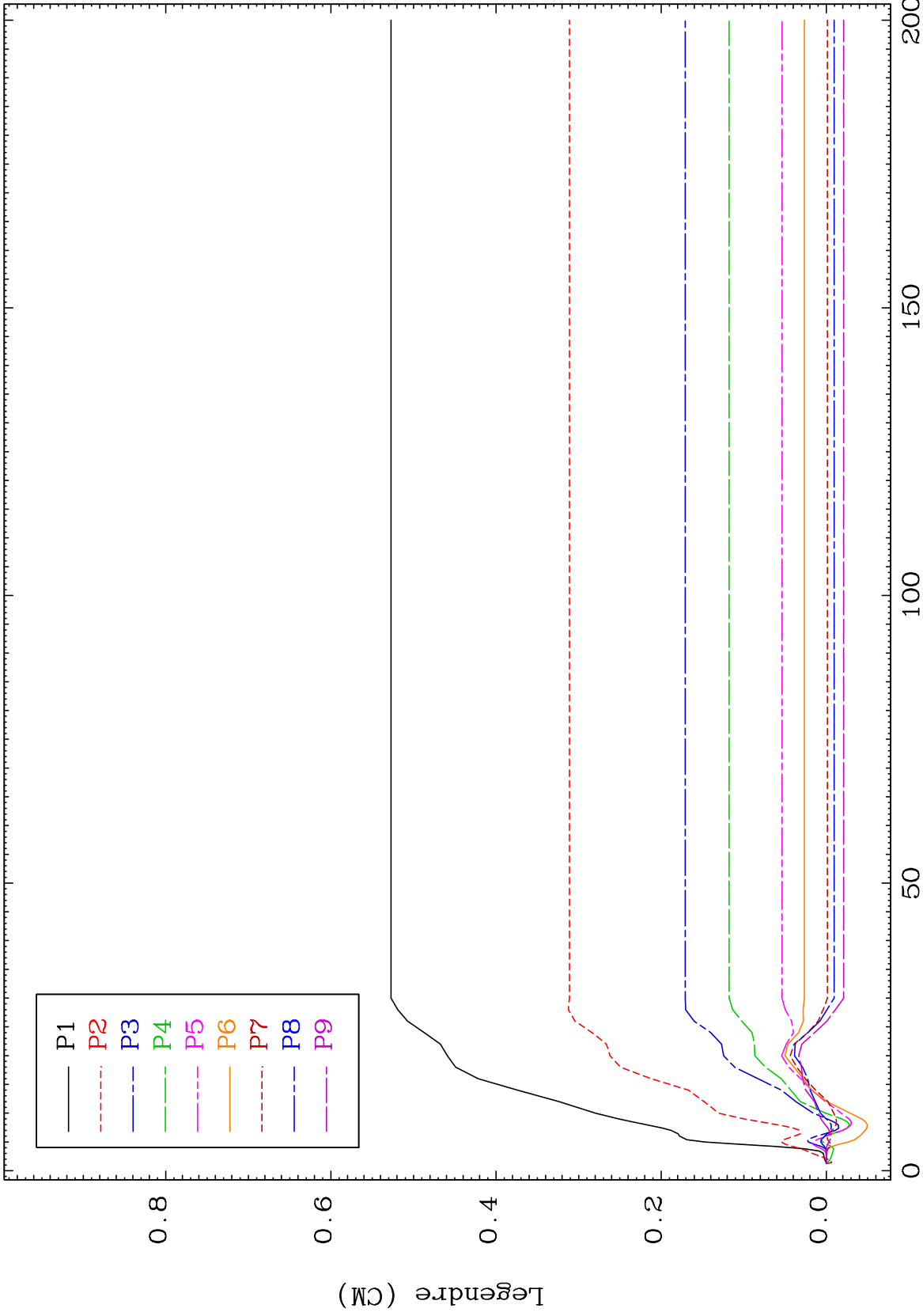
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178

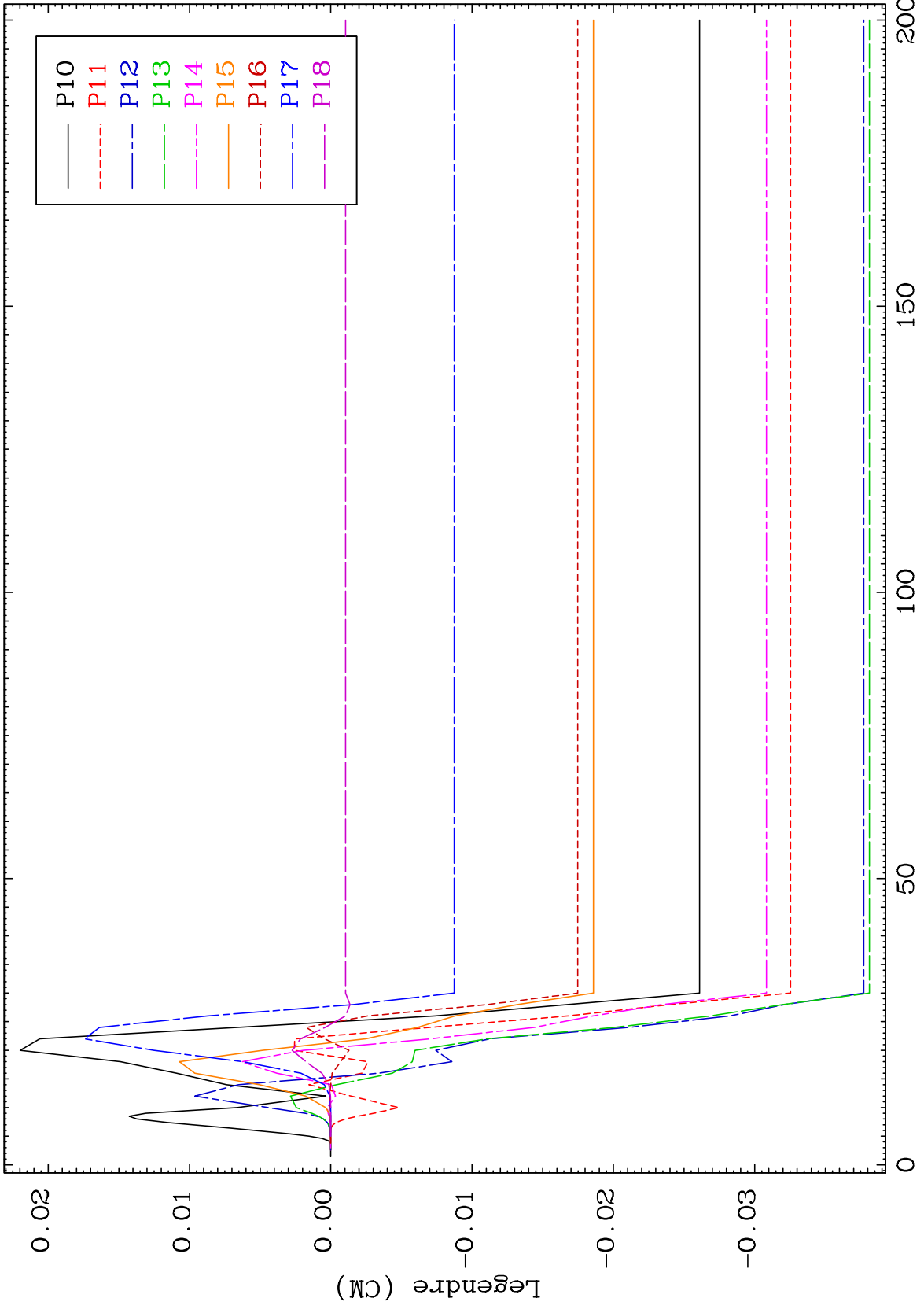


36

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 55 (n,n') Level Legendre Coefficients 70-Yb-178

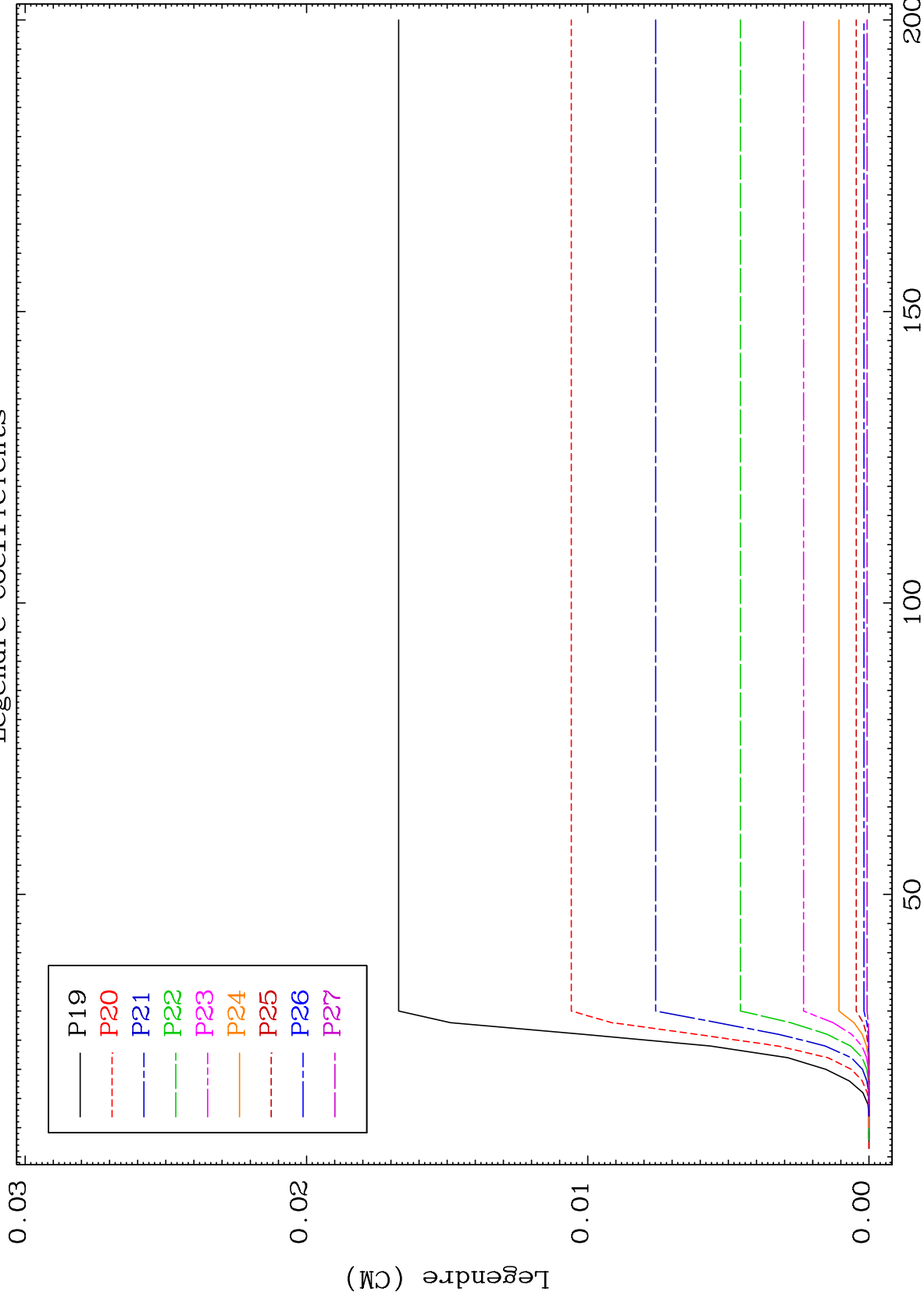


37 70-Yb-178

MAT 7055

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

70-Yb-178



38

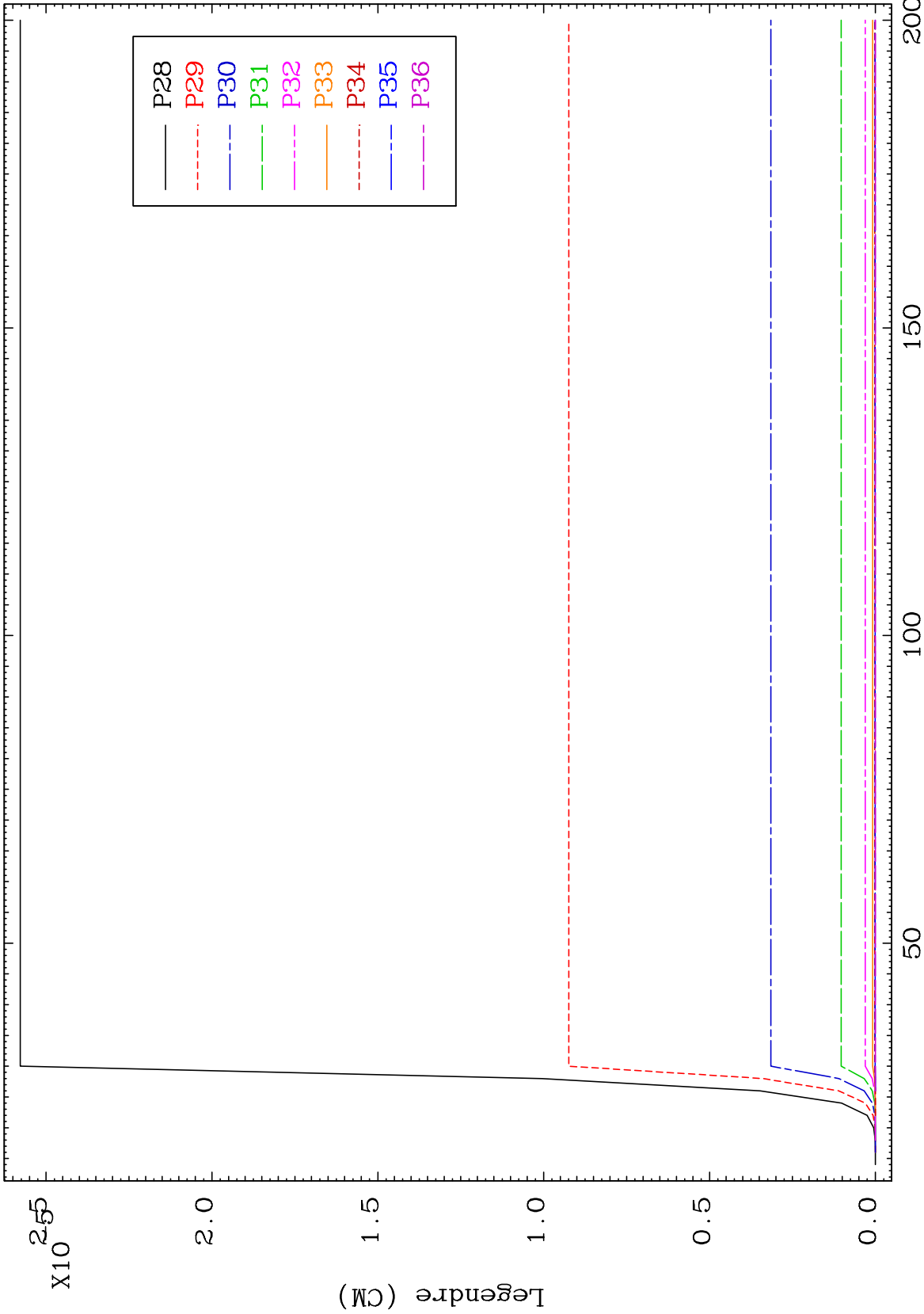
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178

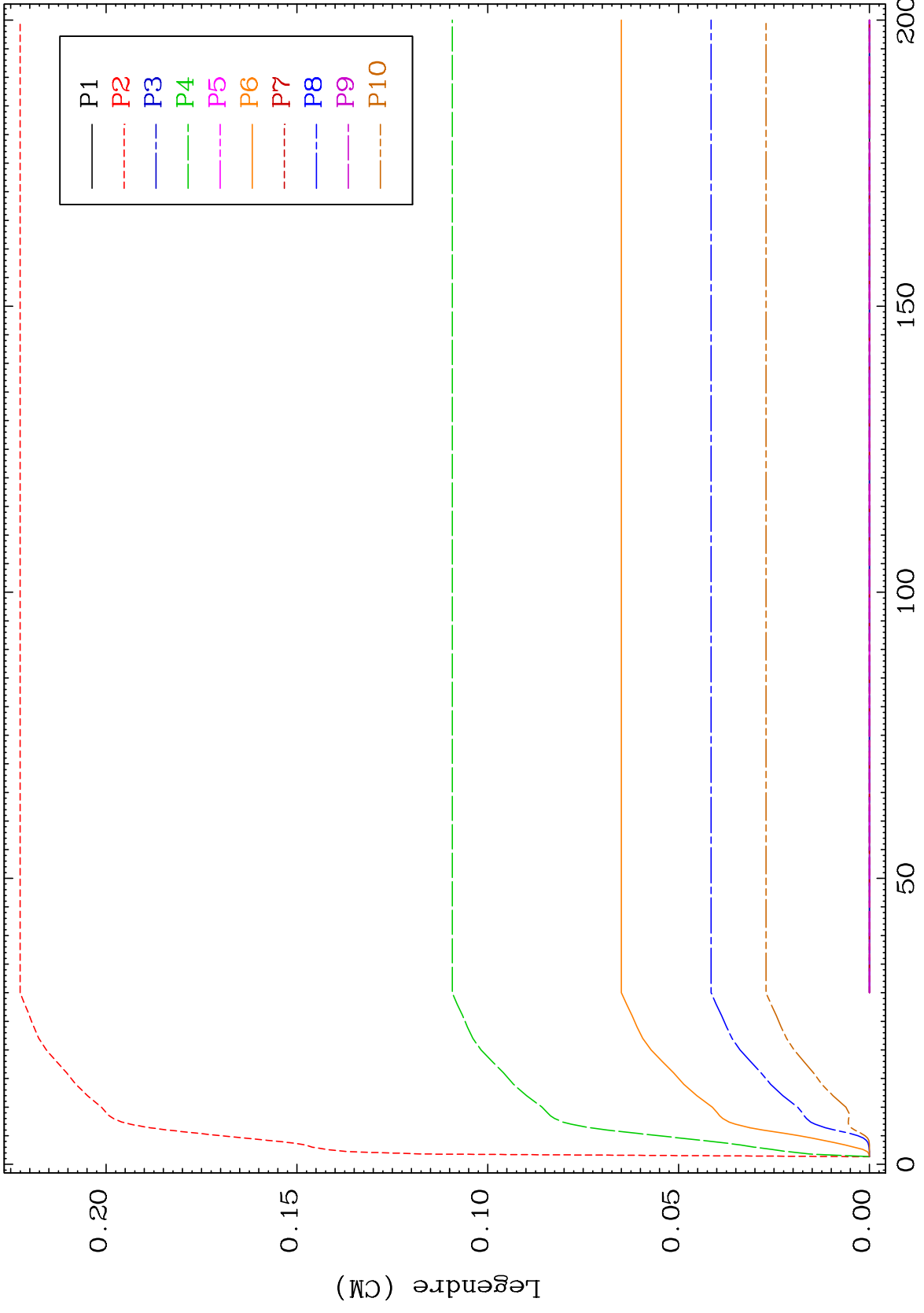


39

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 56 (n,n') Level Legendre Coefficients 70-Yb-178

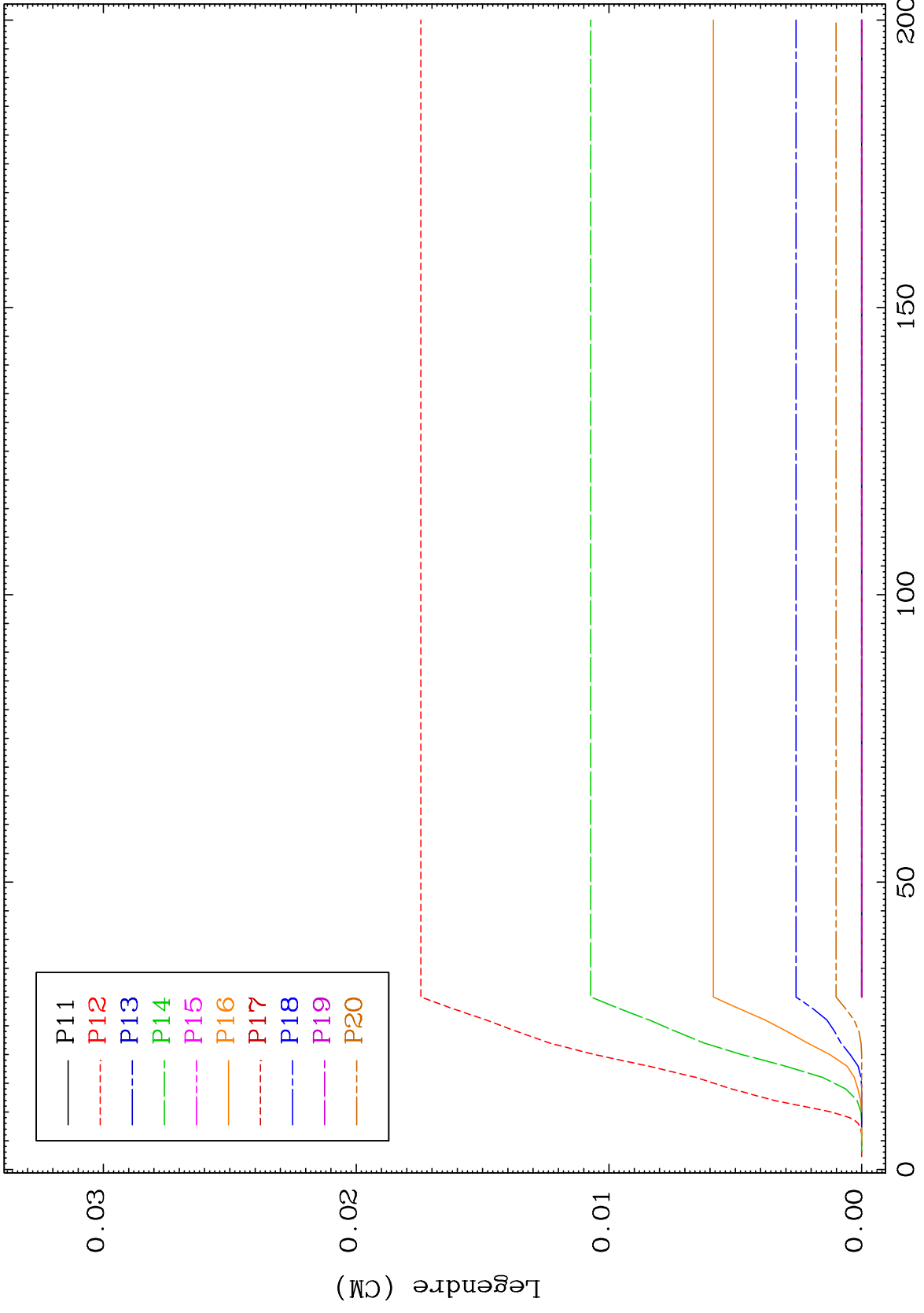


70-Yb-178

MAT 7055

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

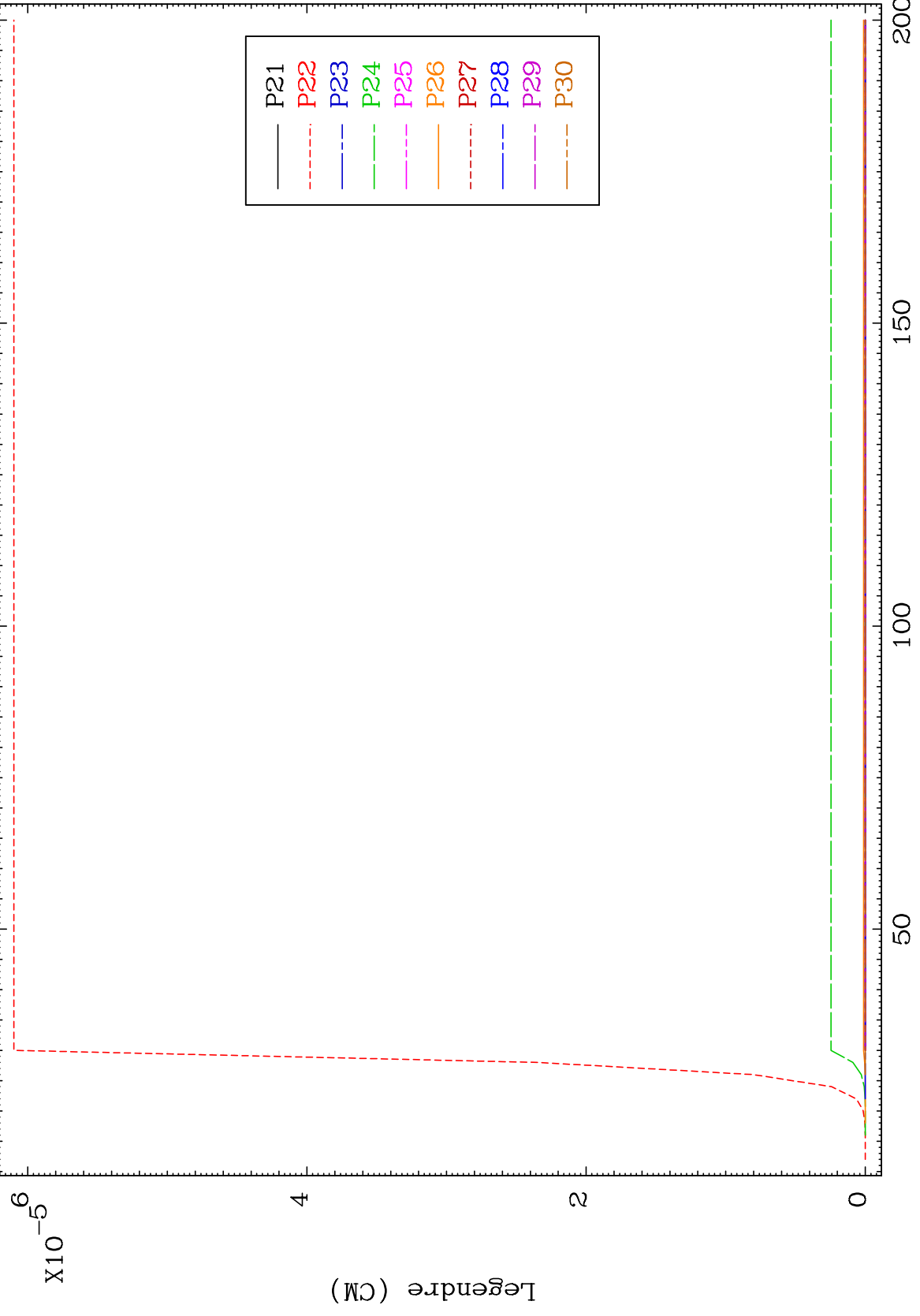
70-Yb-178



41

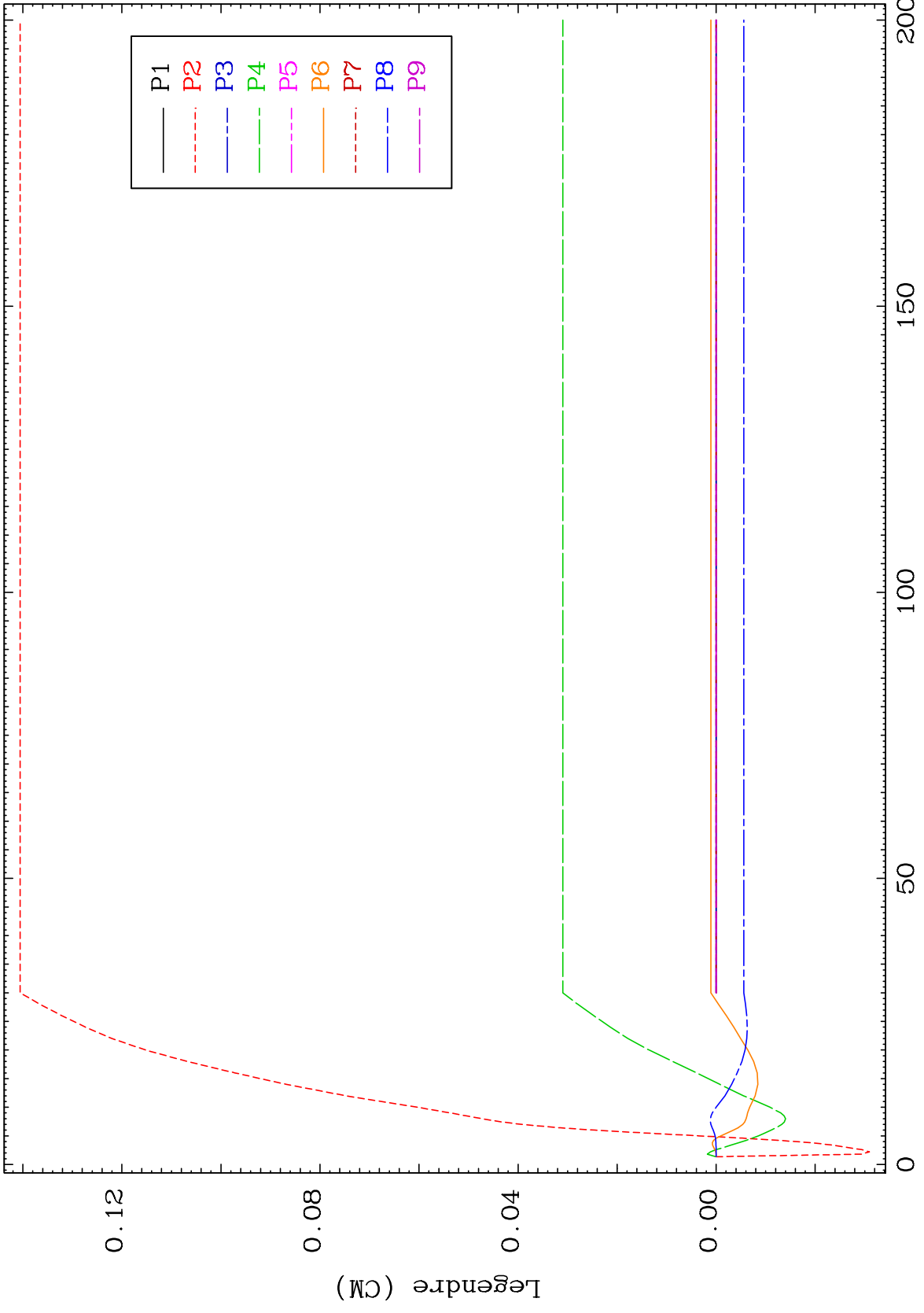
70-Yb-178

MAT 7055 MT= 56 (n,n') Level Legendre Coefficients 70-Yb-178



42 50 100 150 200 70-Yb-178

MAT 7055 MT= 57 (n,n') Level Legendre Coefficients 70-Yb-178

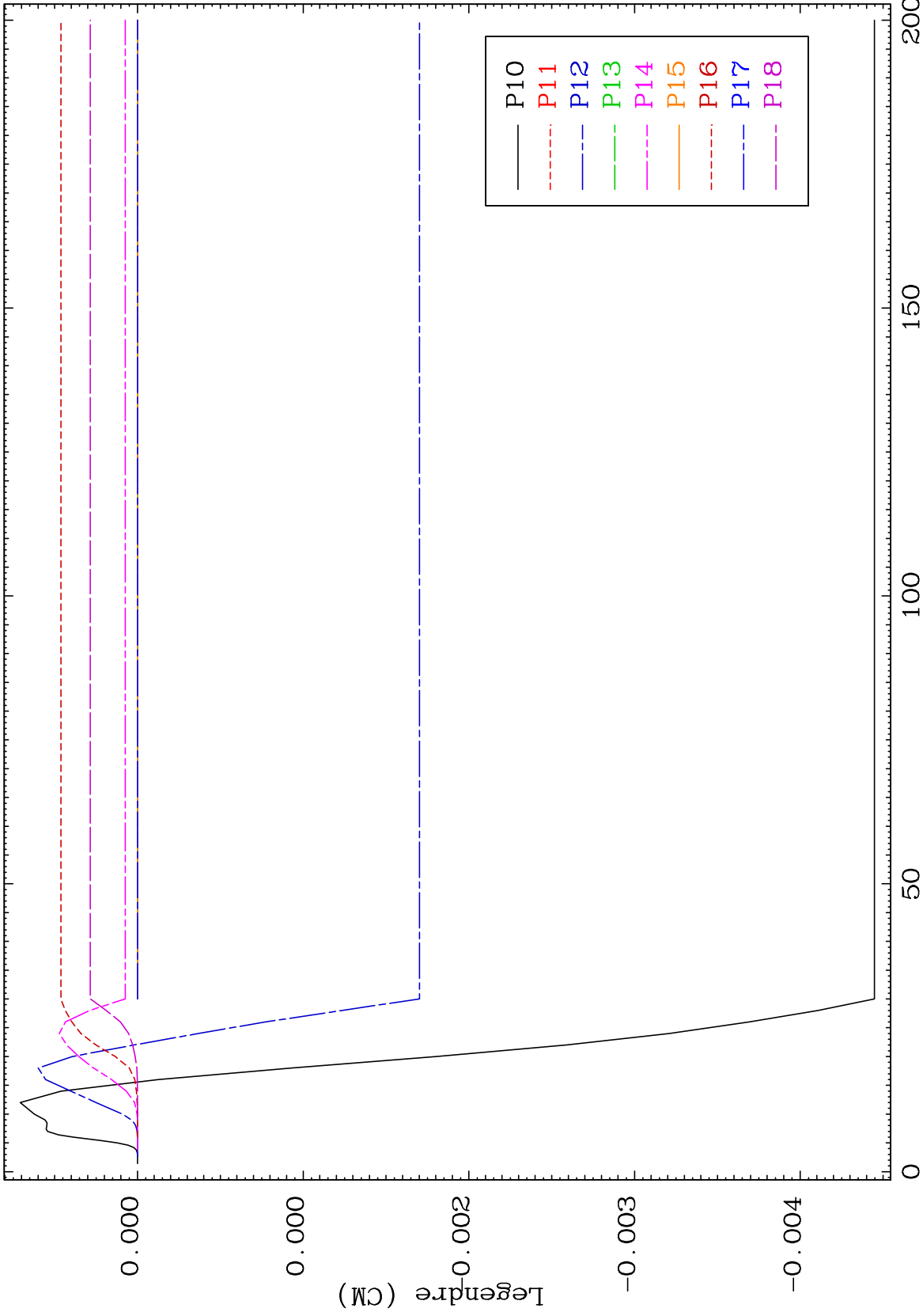


43 70-Yb-178

MAT 7055

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

70-Yb-178

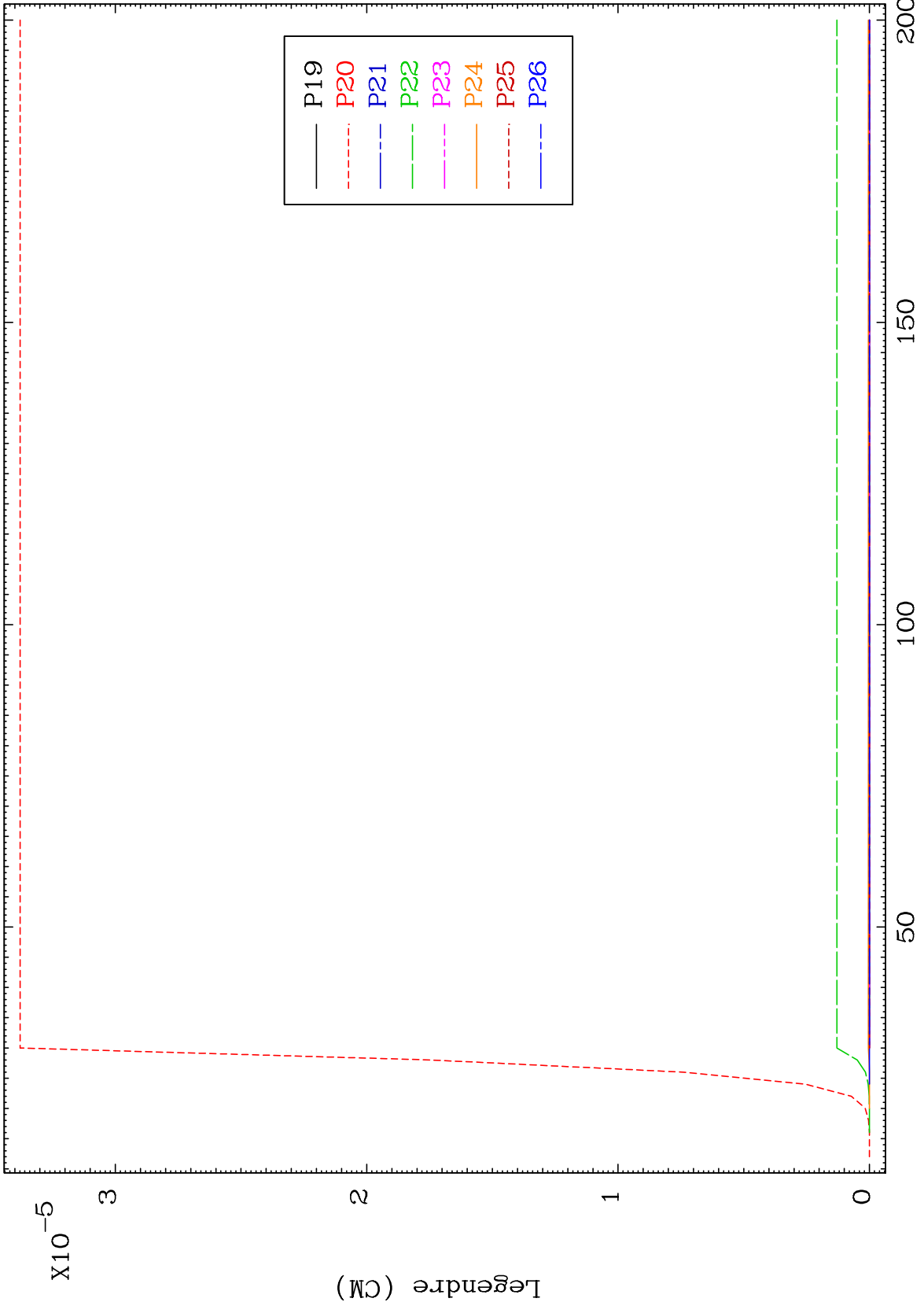


44

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 57 (n,n') Level Legendre Coefficients 70-Yb-178

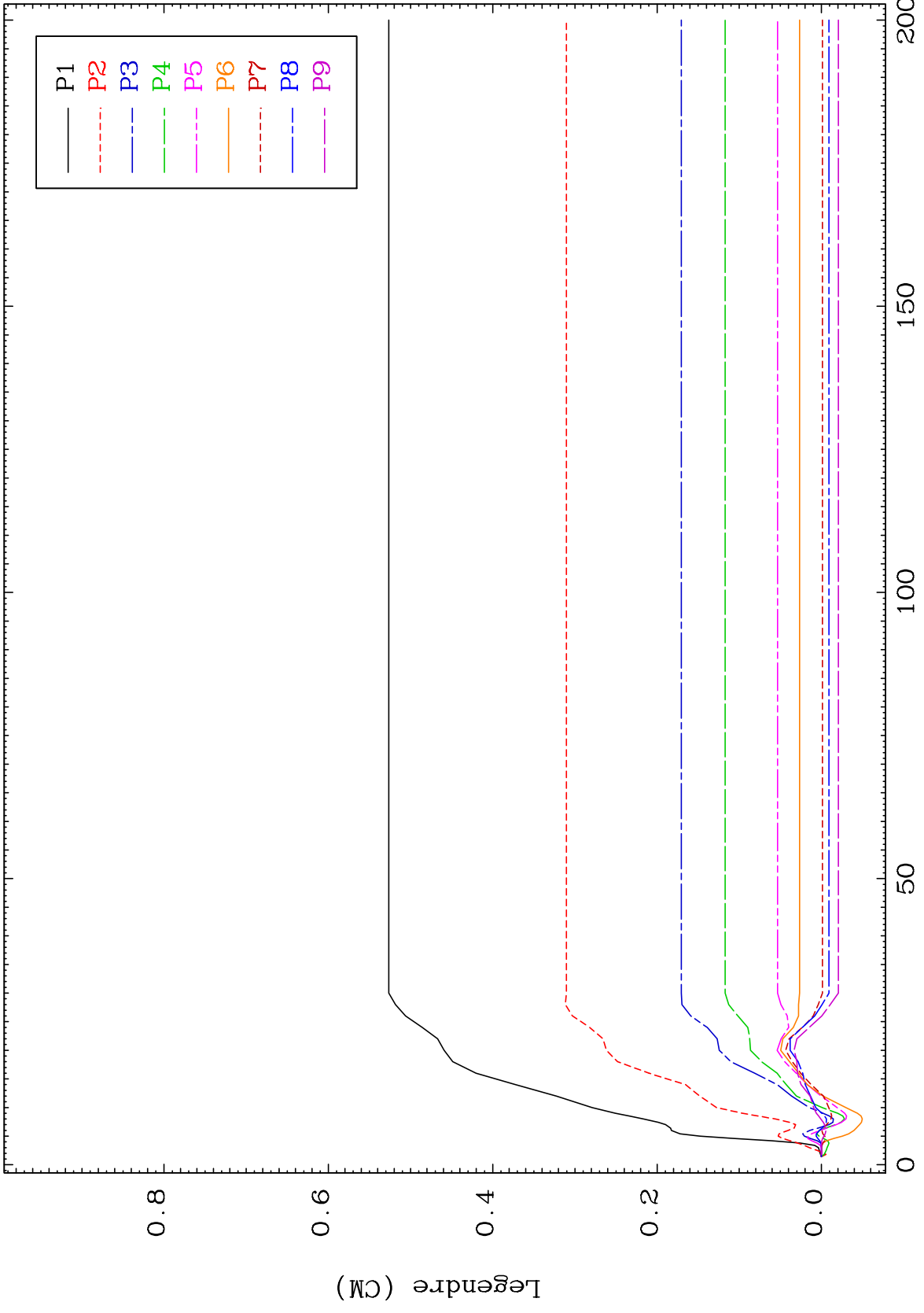


45 50 100 150 200 Incident Energy (MeV) 70-Yb-178

MAT 7055

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

70-Yb-178

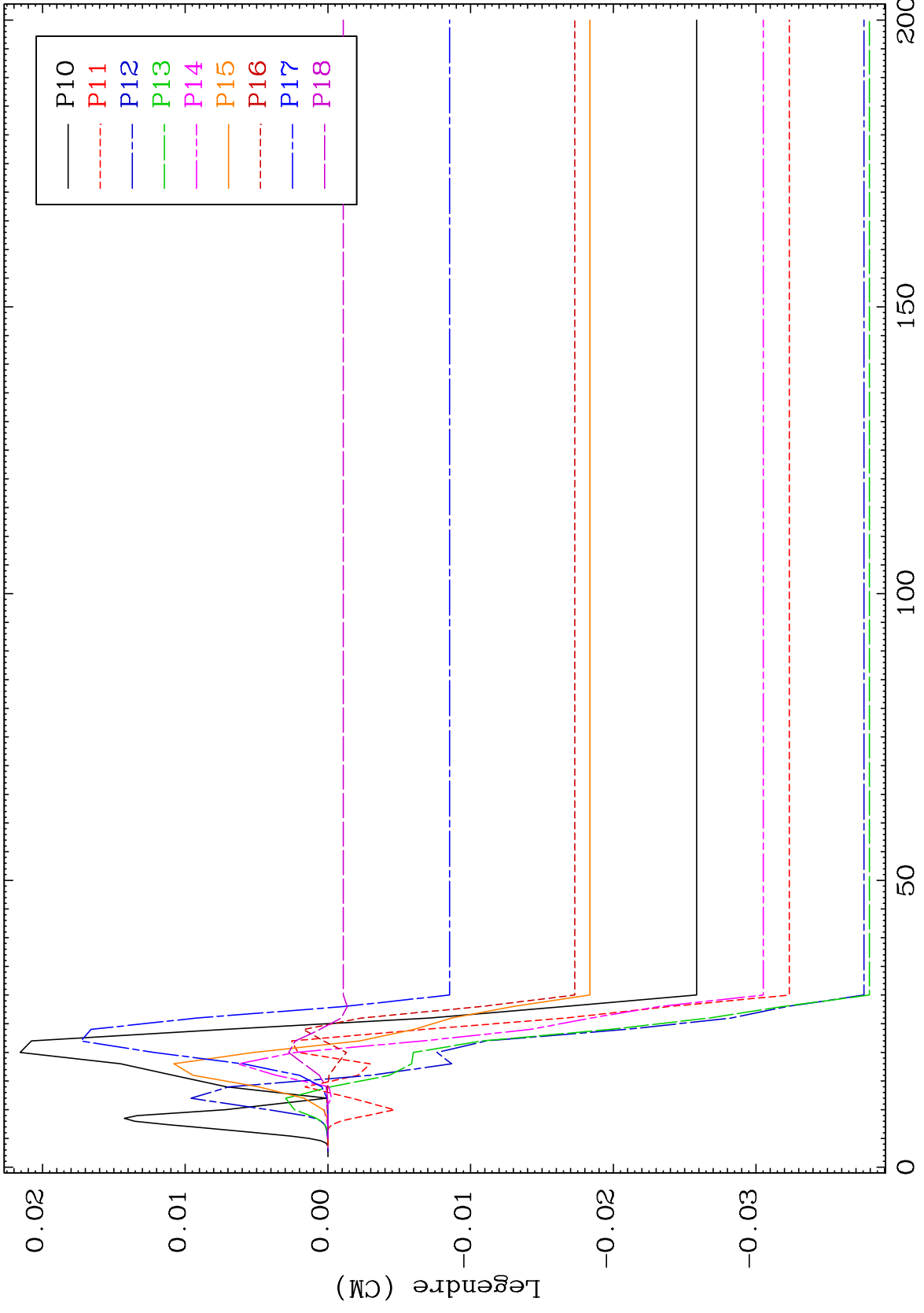


46

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 58 (n,n') Level Legendre Coefficients 70-Yb-178

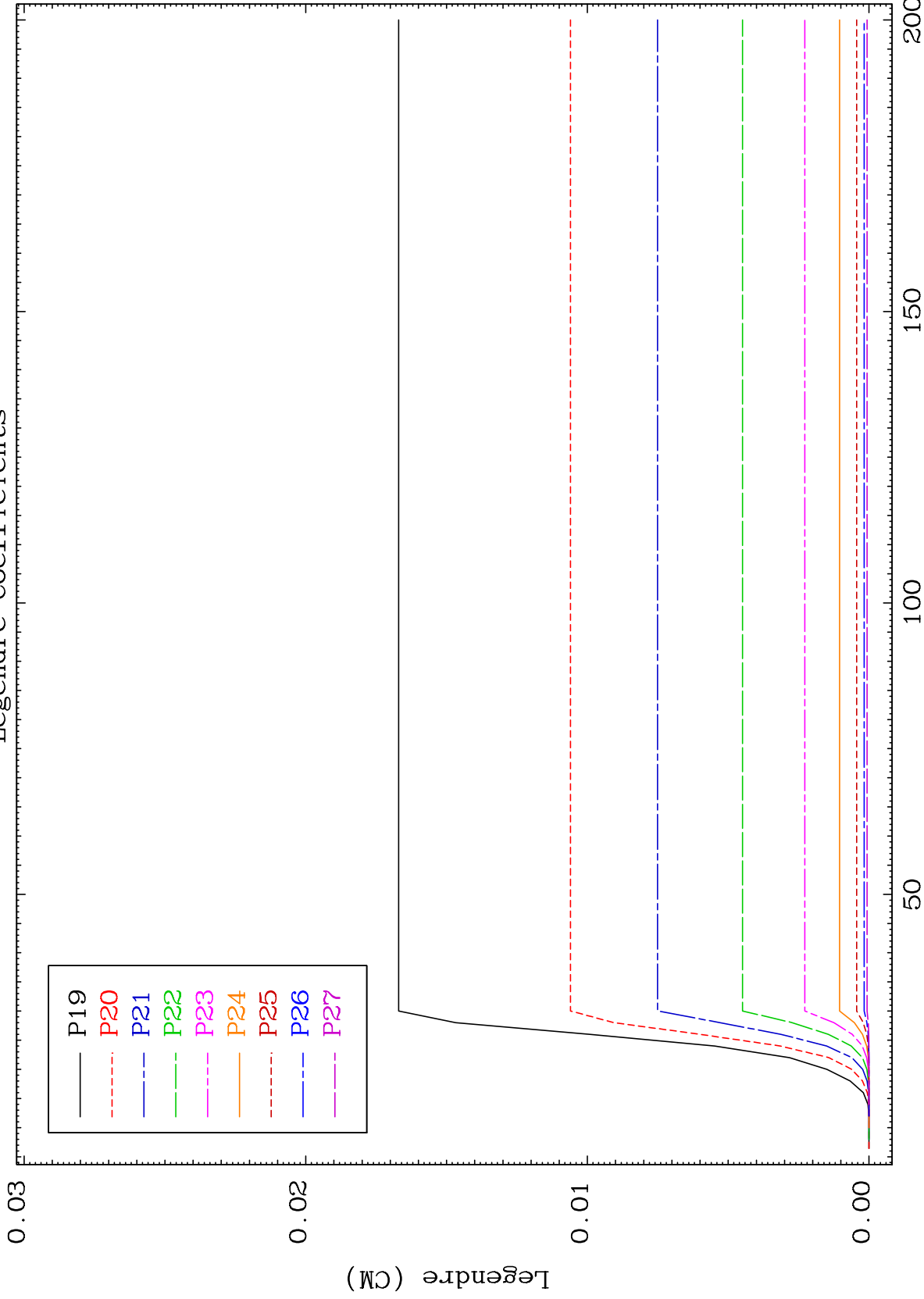


47 70-Yb-178

MAT 7055

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

70-Yb-178

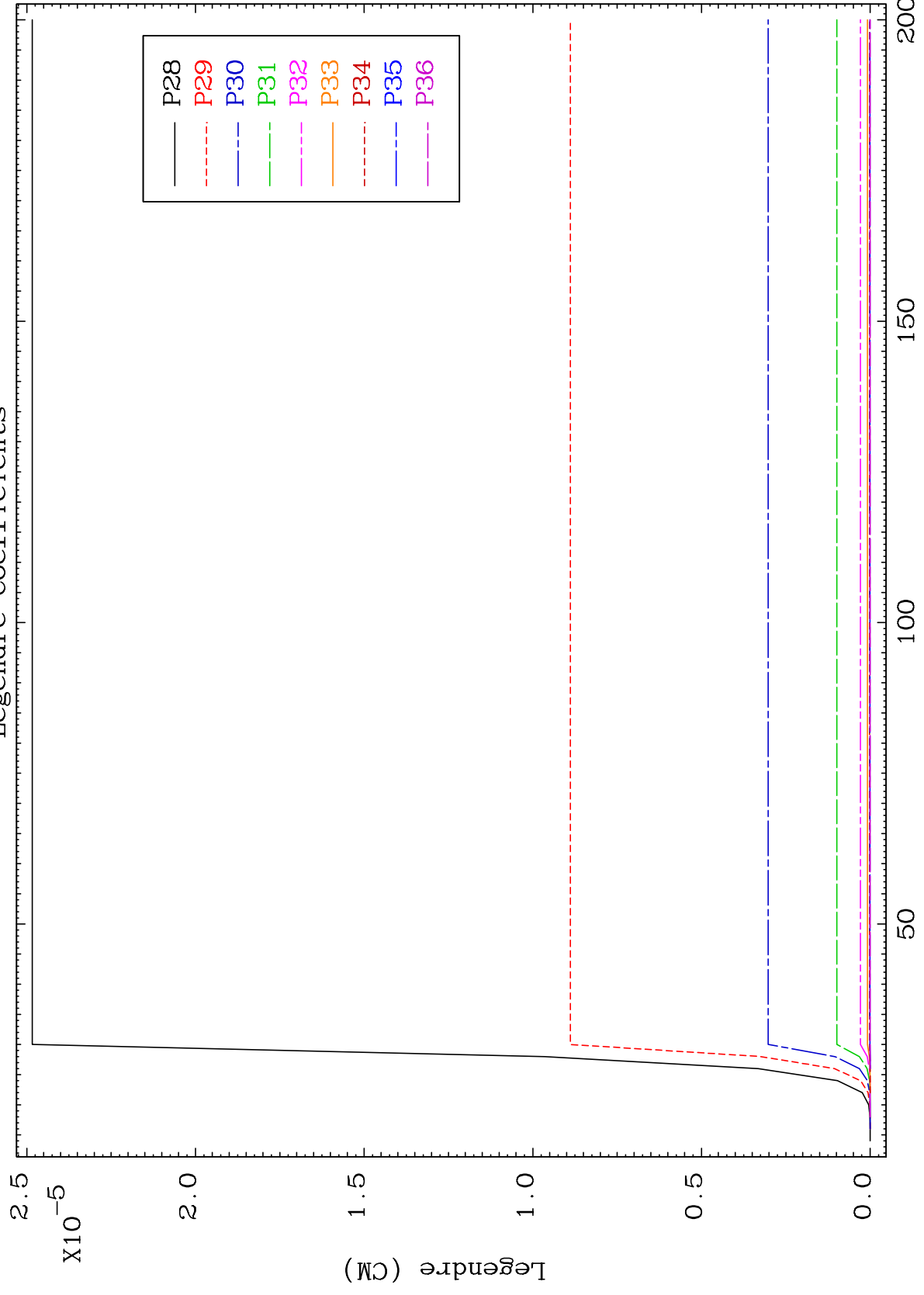


48

Incident Energy (MeV)

70-Yb-178

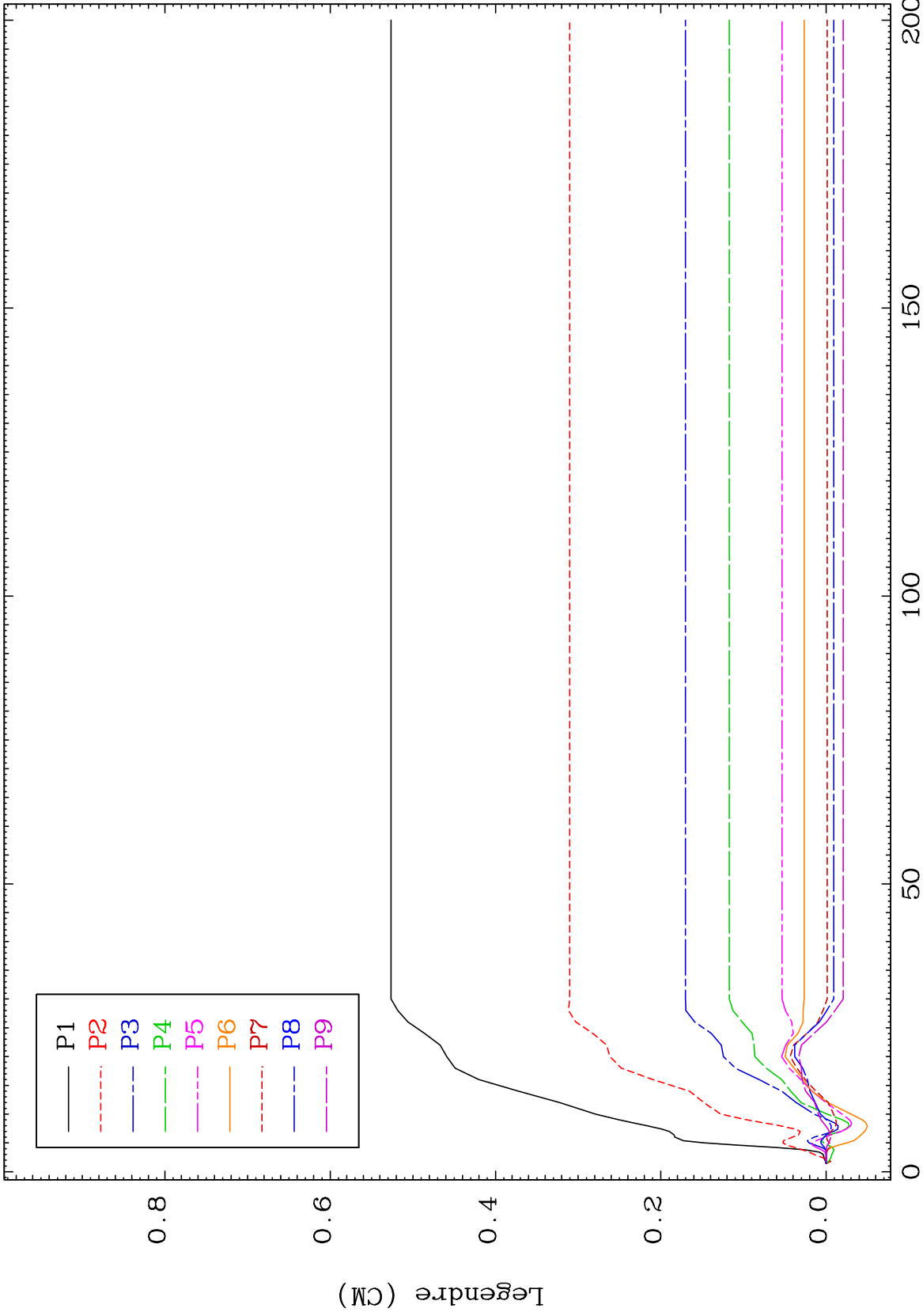
MAT 7055 MT= 58 (n,n') Level Legendre Coefficients 70-Yb-178



MAT 7055

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

70-Yb-178



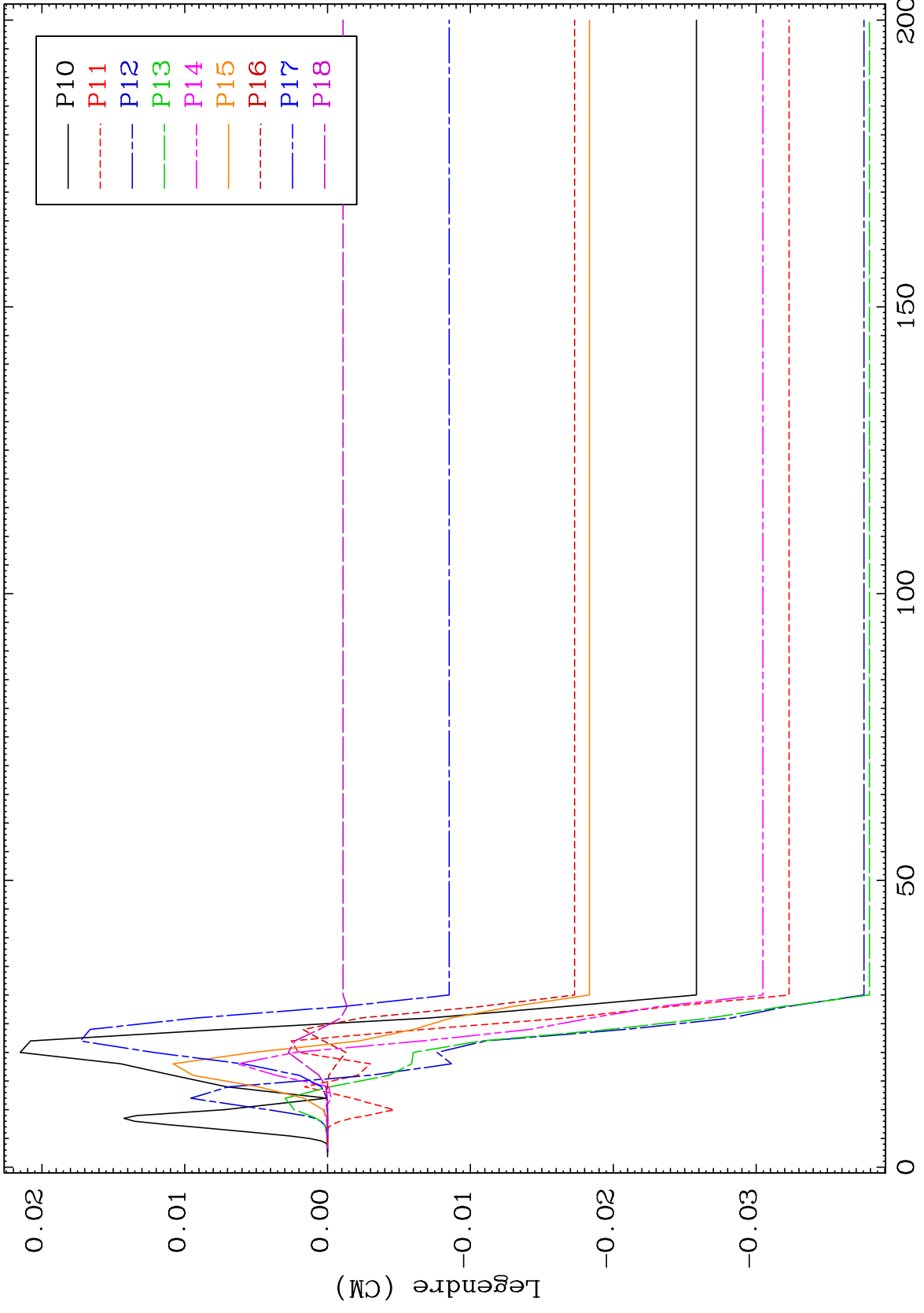
70-Yb-178

Incident Energy (MeV)

MAT 7055

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

70-Yb-178



51

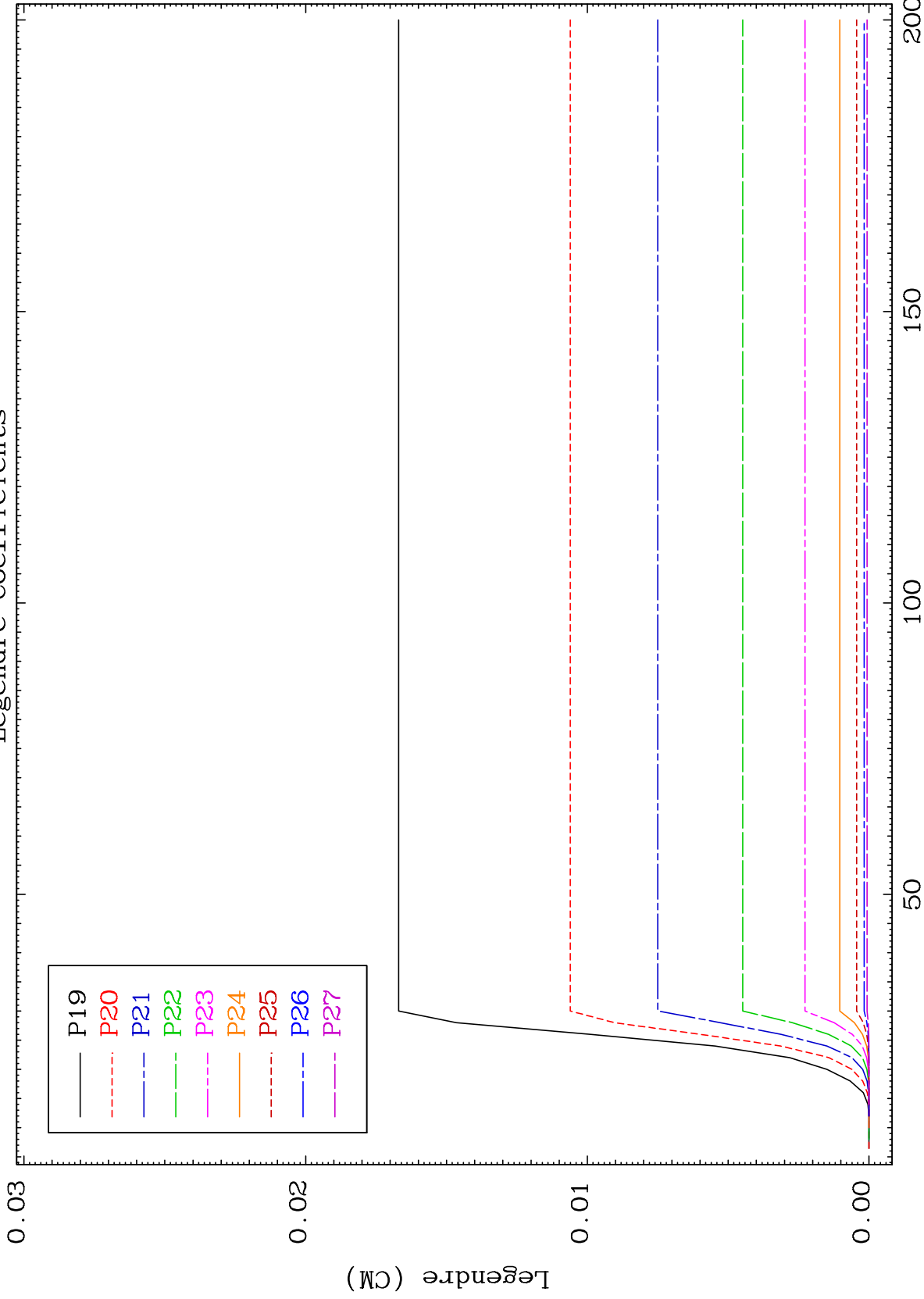
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178

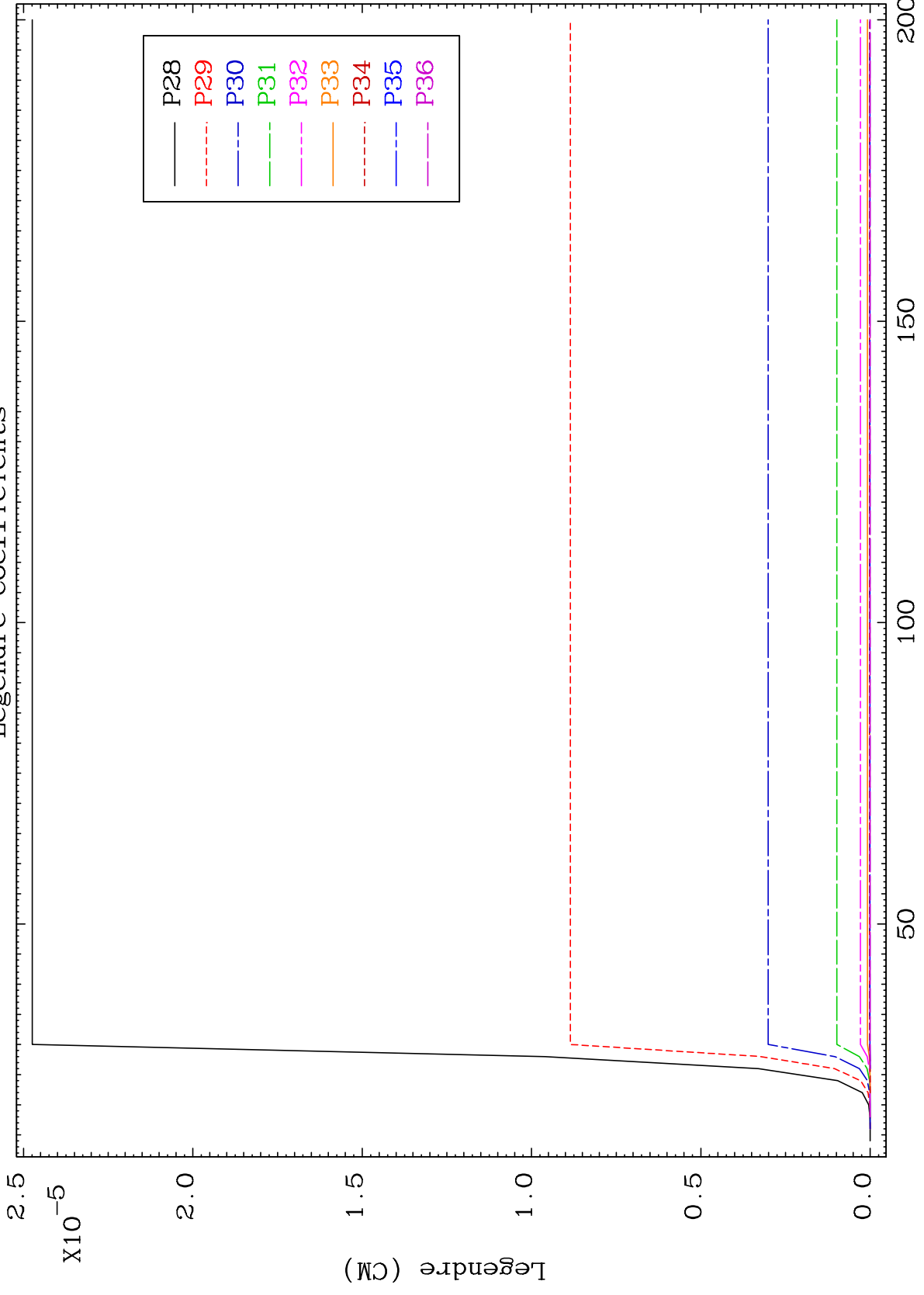


52

Incident Energy (MeV)

70-Yb-178

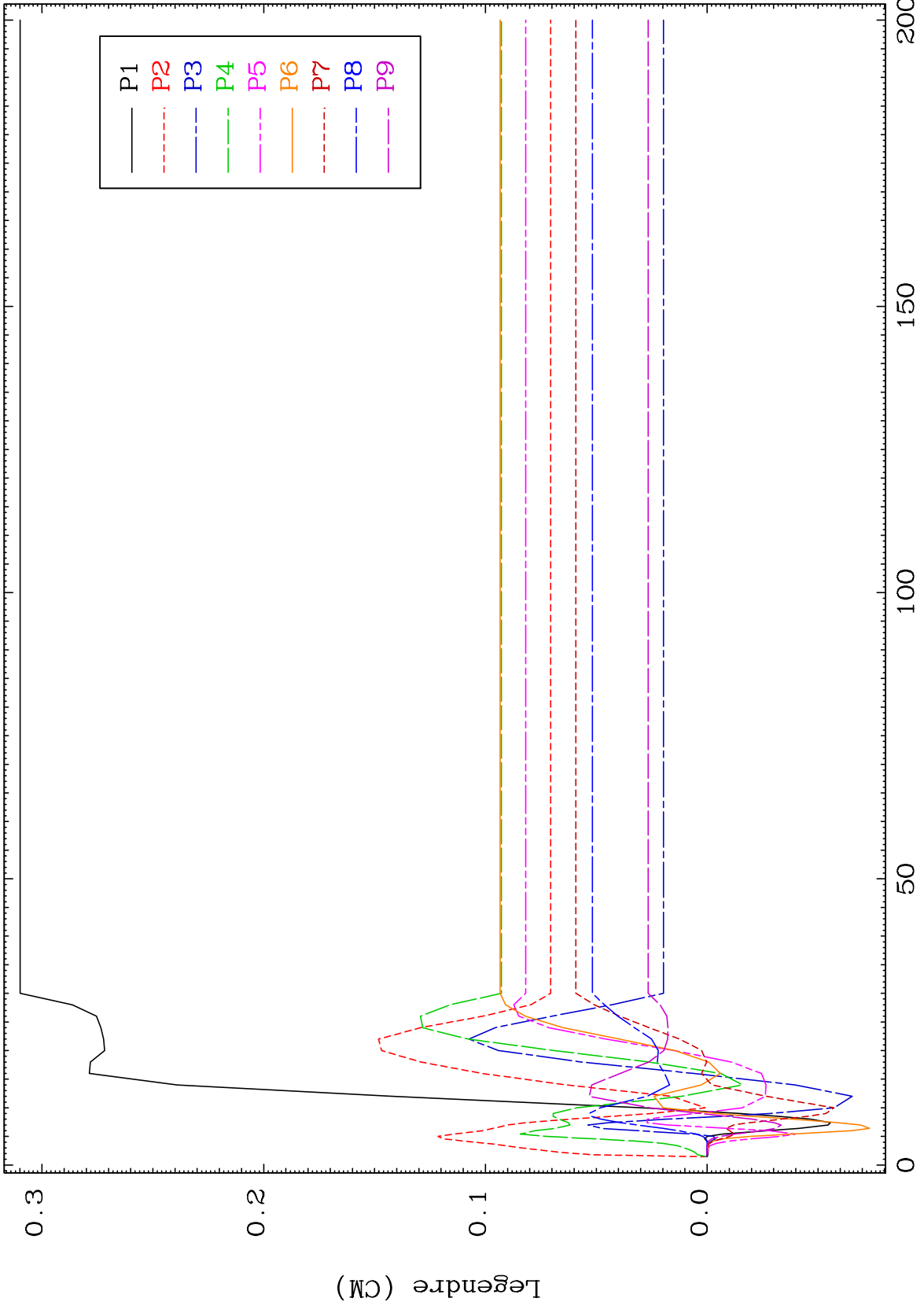
MAT 7055 MT= 59 (n, n') Level Legendre Coefficients 70-Yb-178



MAT 7055

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

70-Yb-178



54

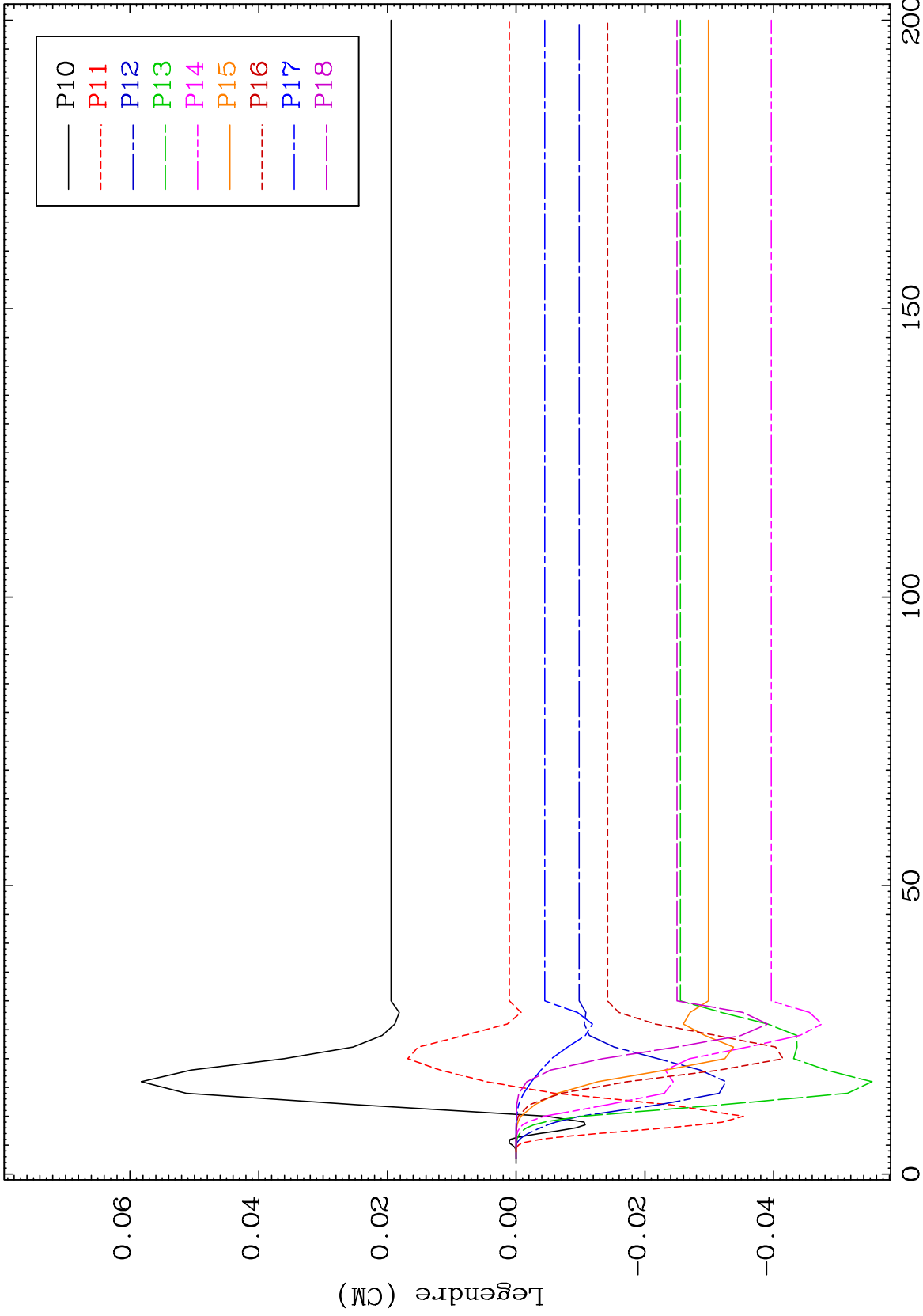
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



55

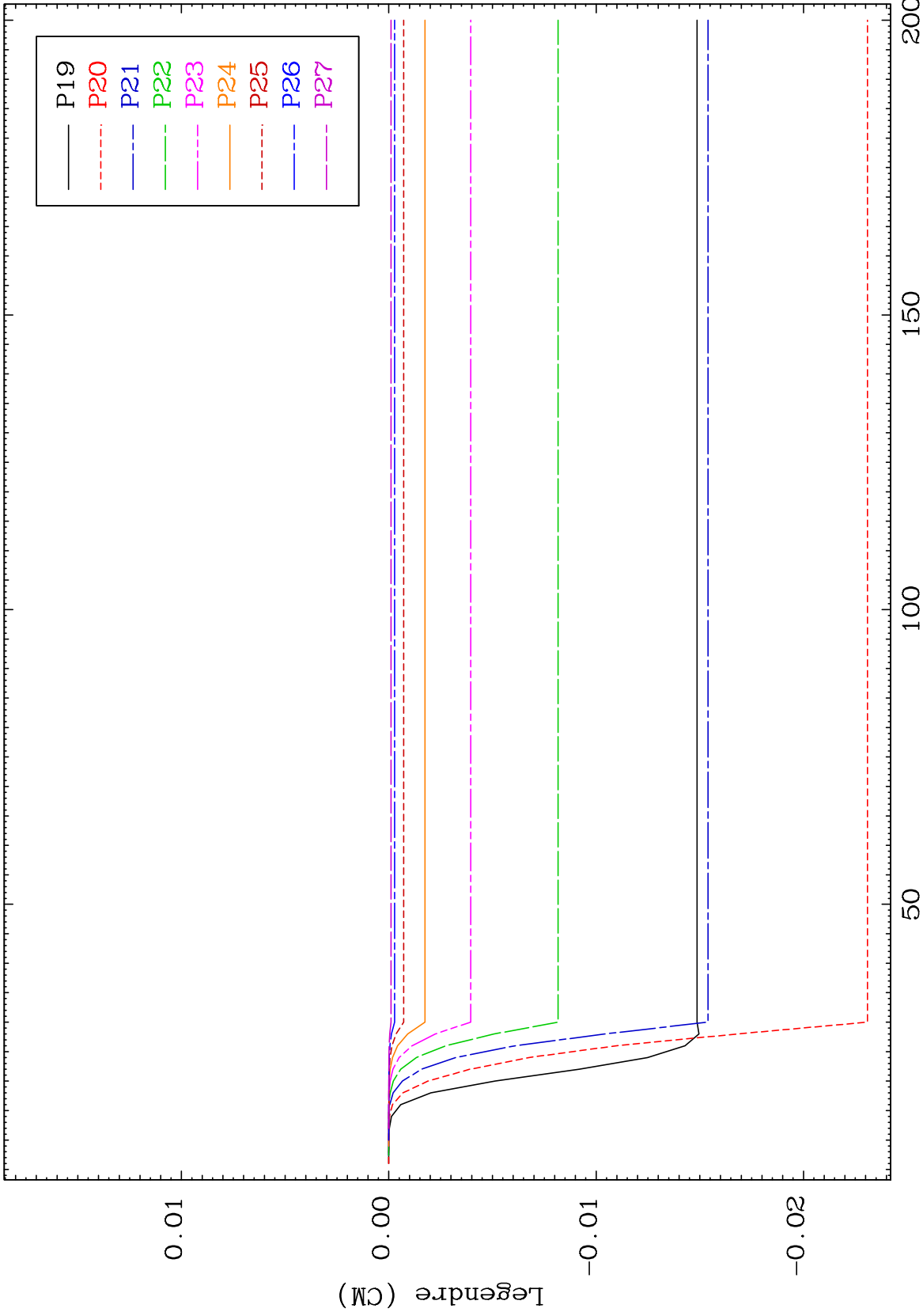
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



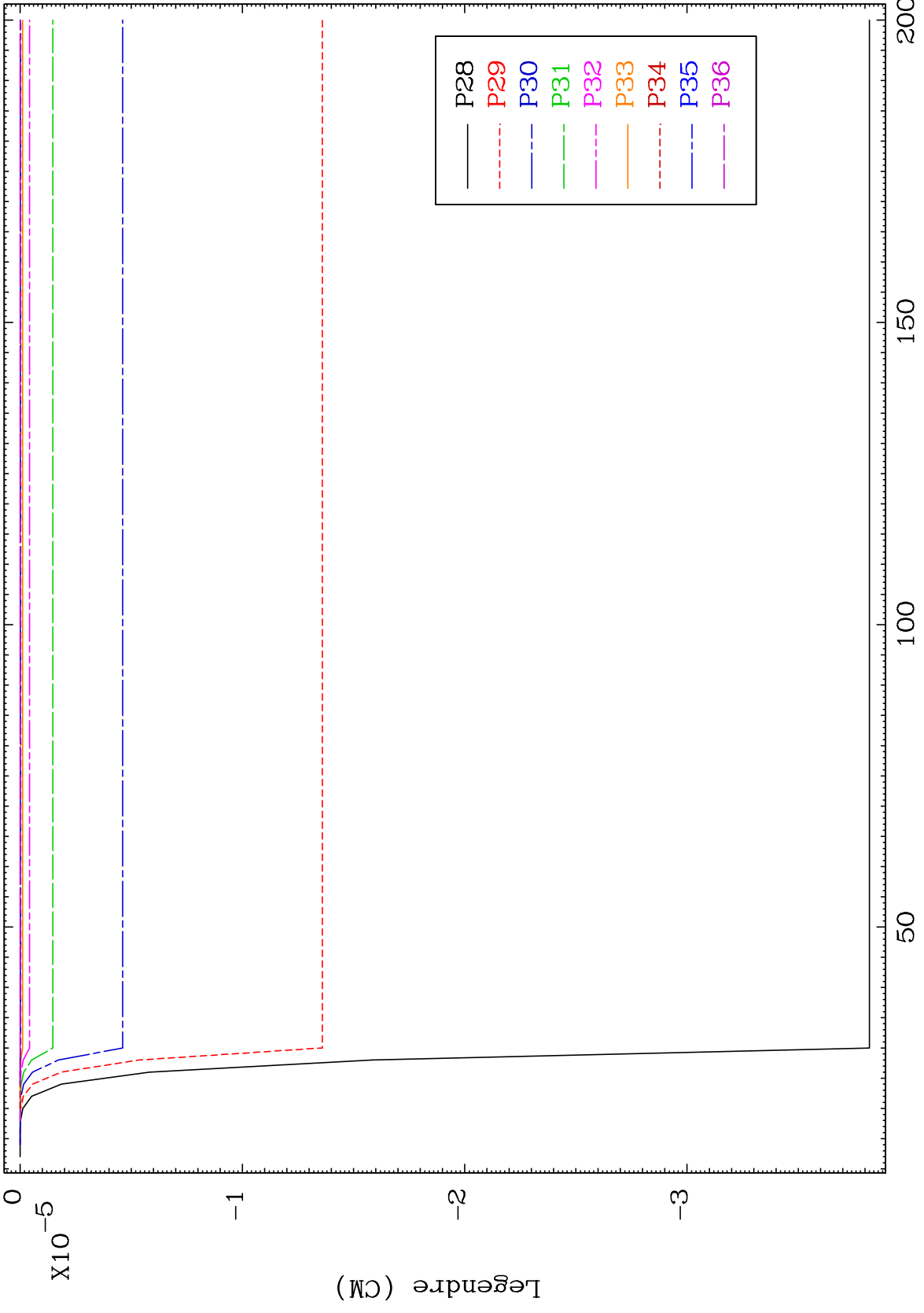
56

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 60 (n,n') Level 70-Yb-178

Legendre Coefficients

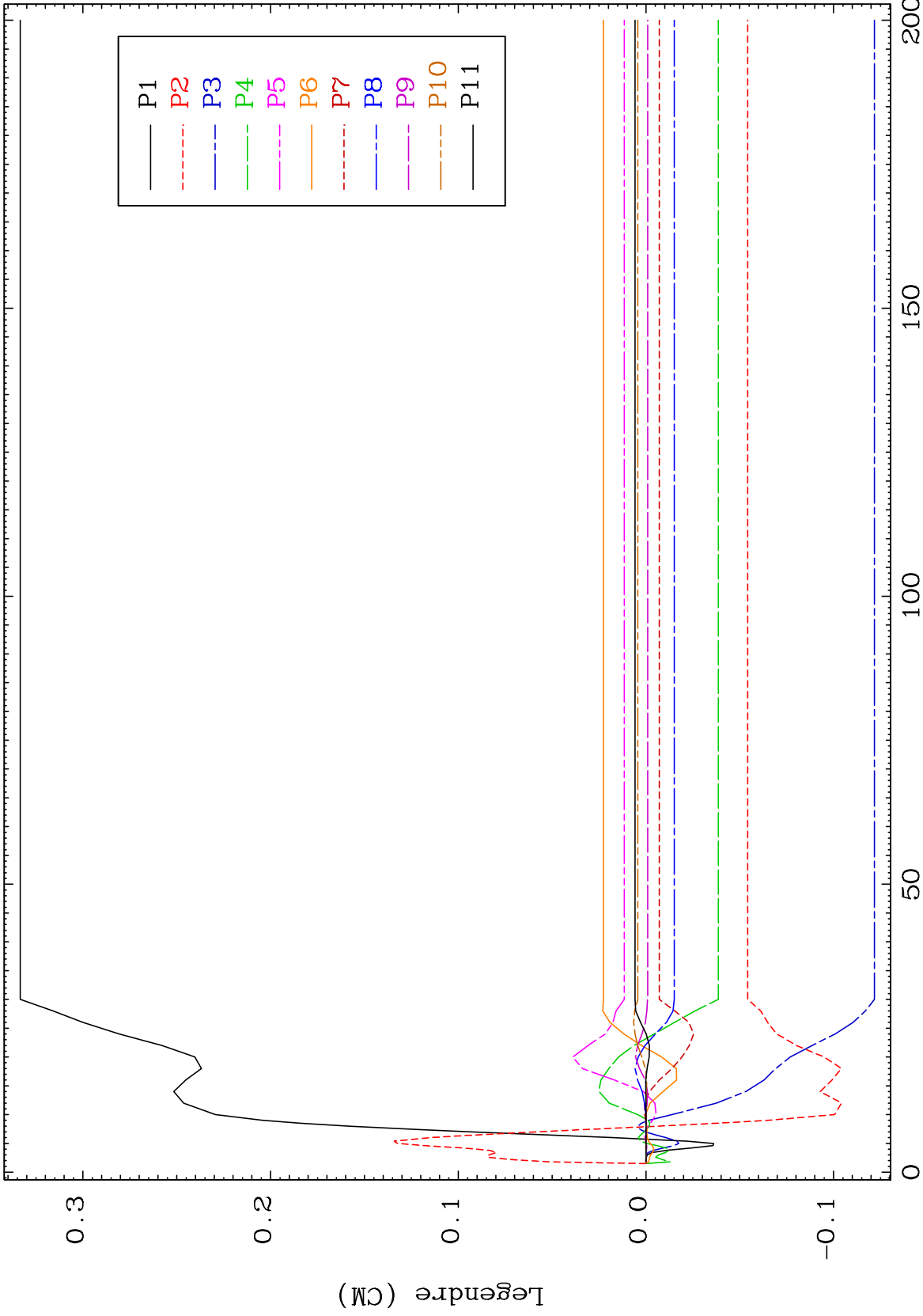


57 Incident Energy (MeV) 70-Yb-178

MAT 7055

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

70-Yb-178



58

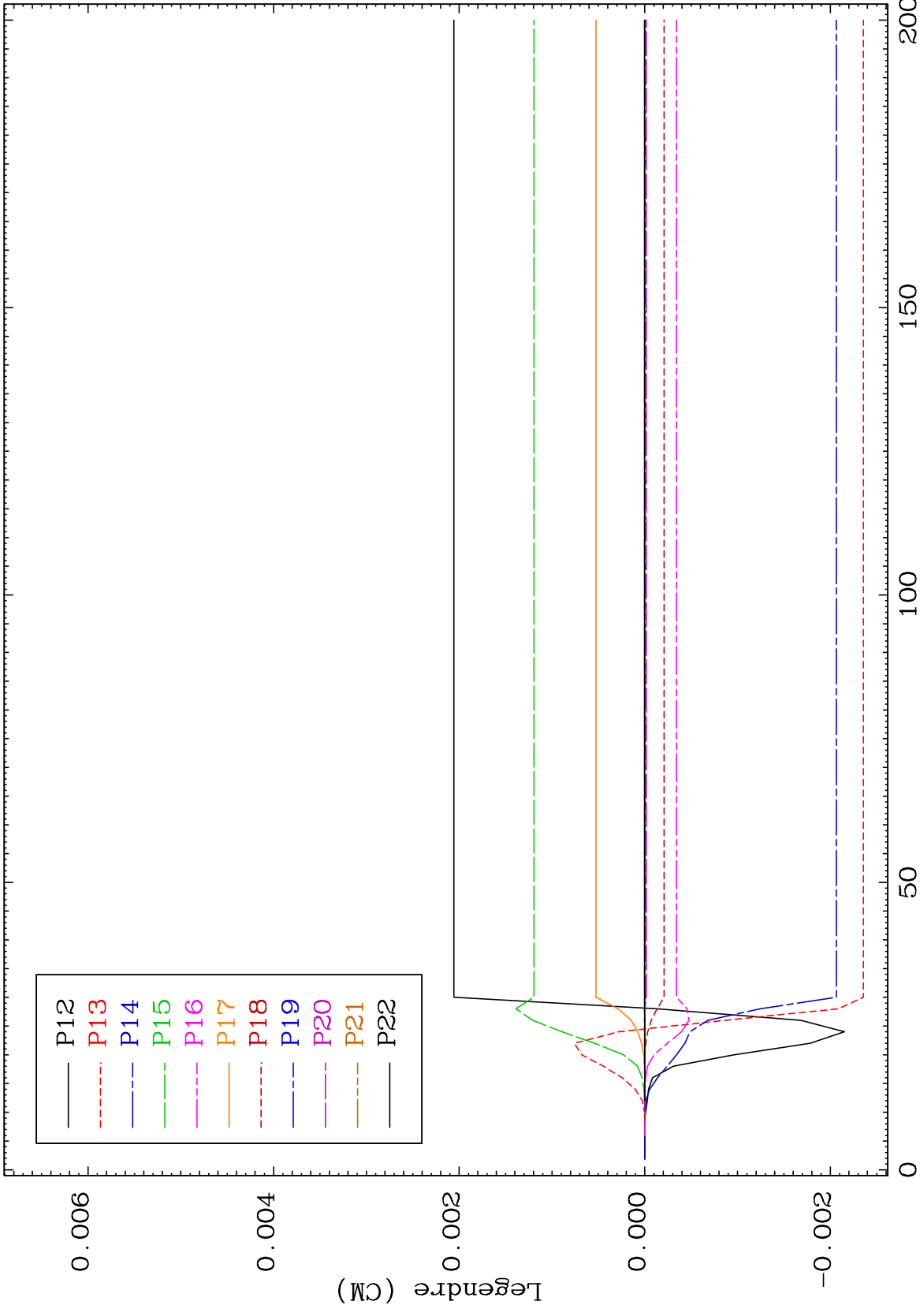
Incident Energy (MeV)

70-Yb-178

MAT 70555

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

70-Yb-178



59

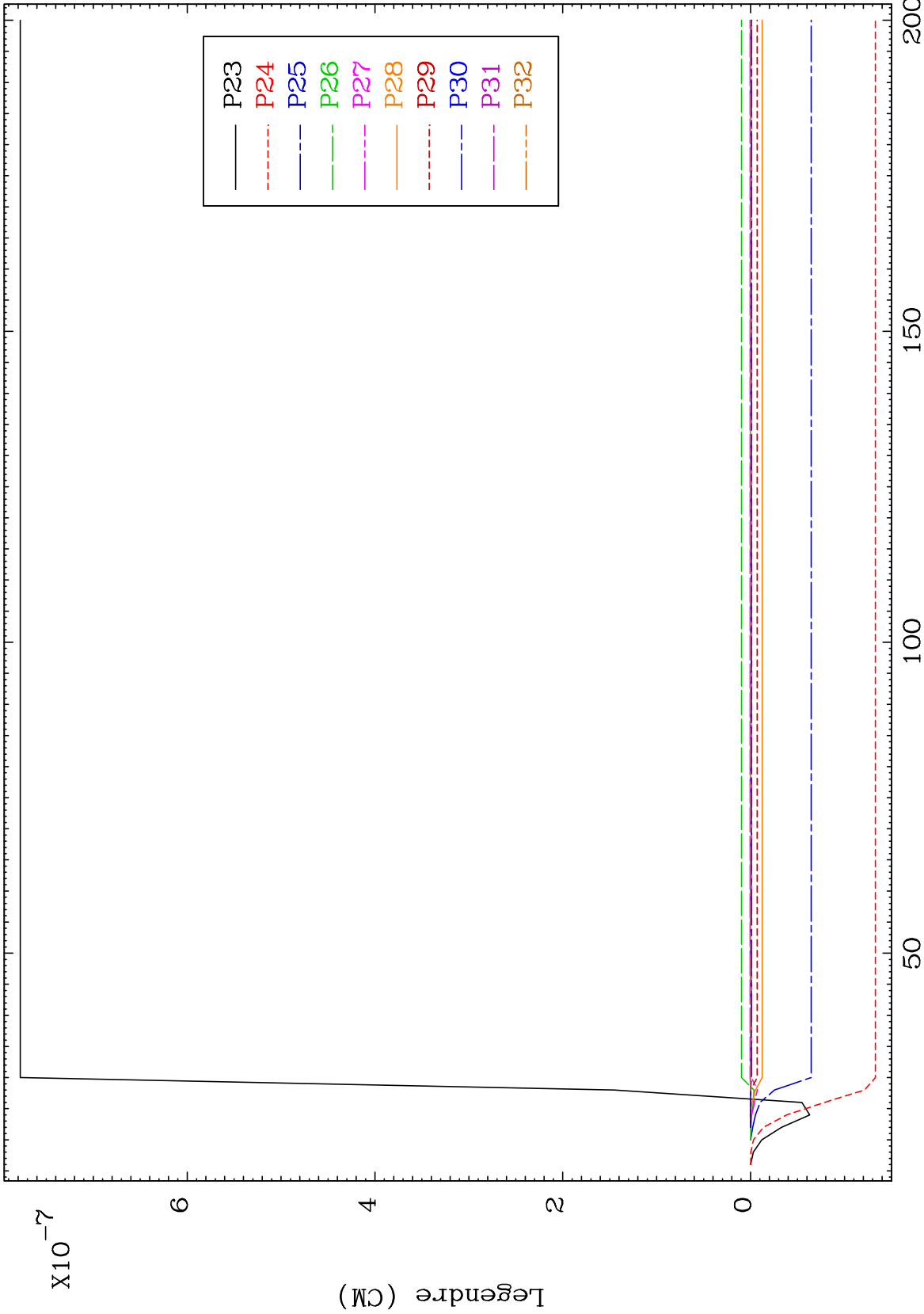
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



60

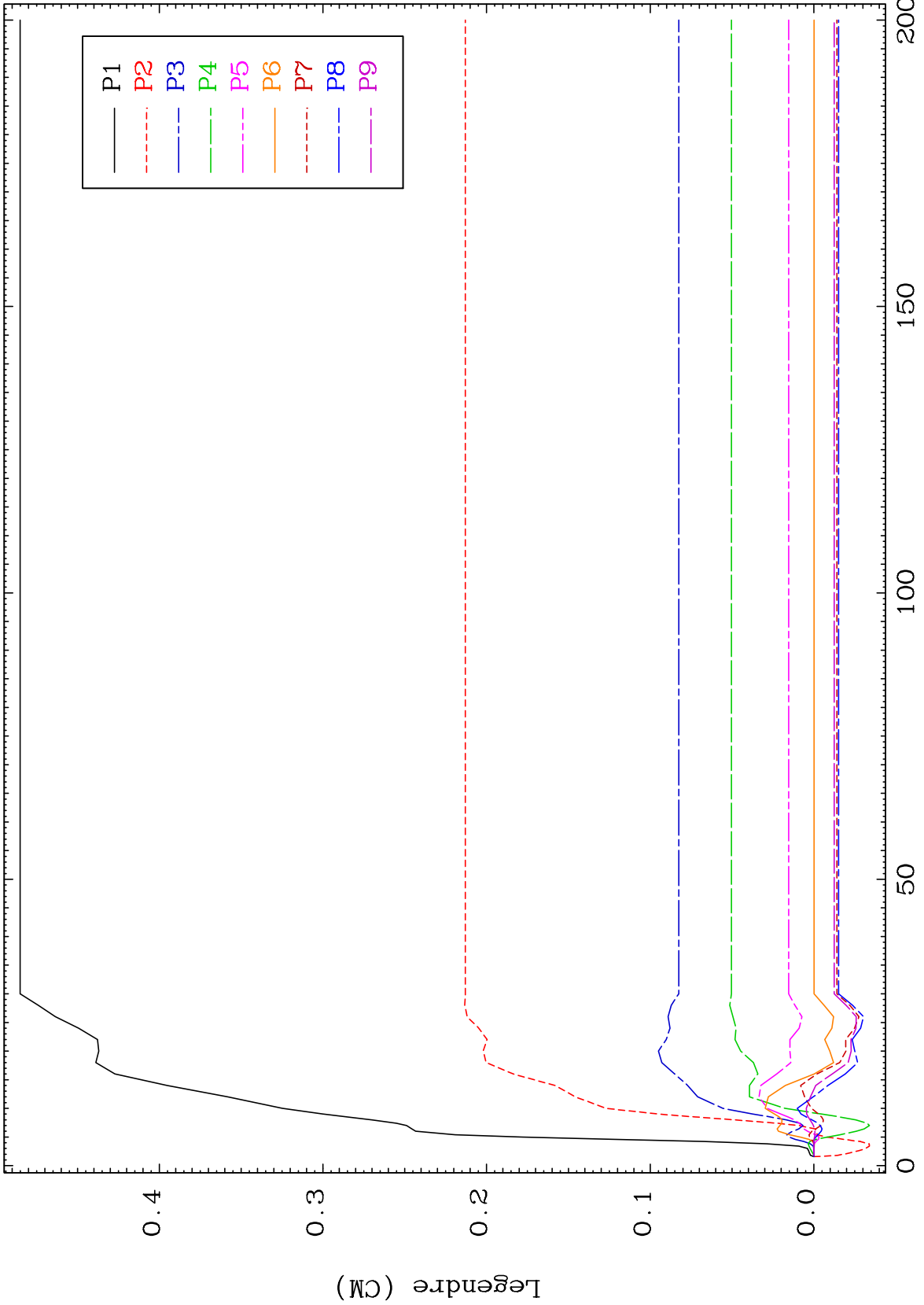
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



61

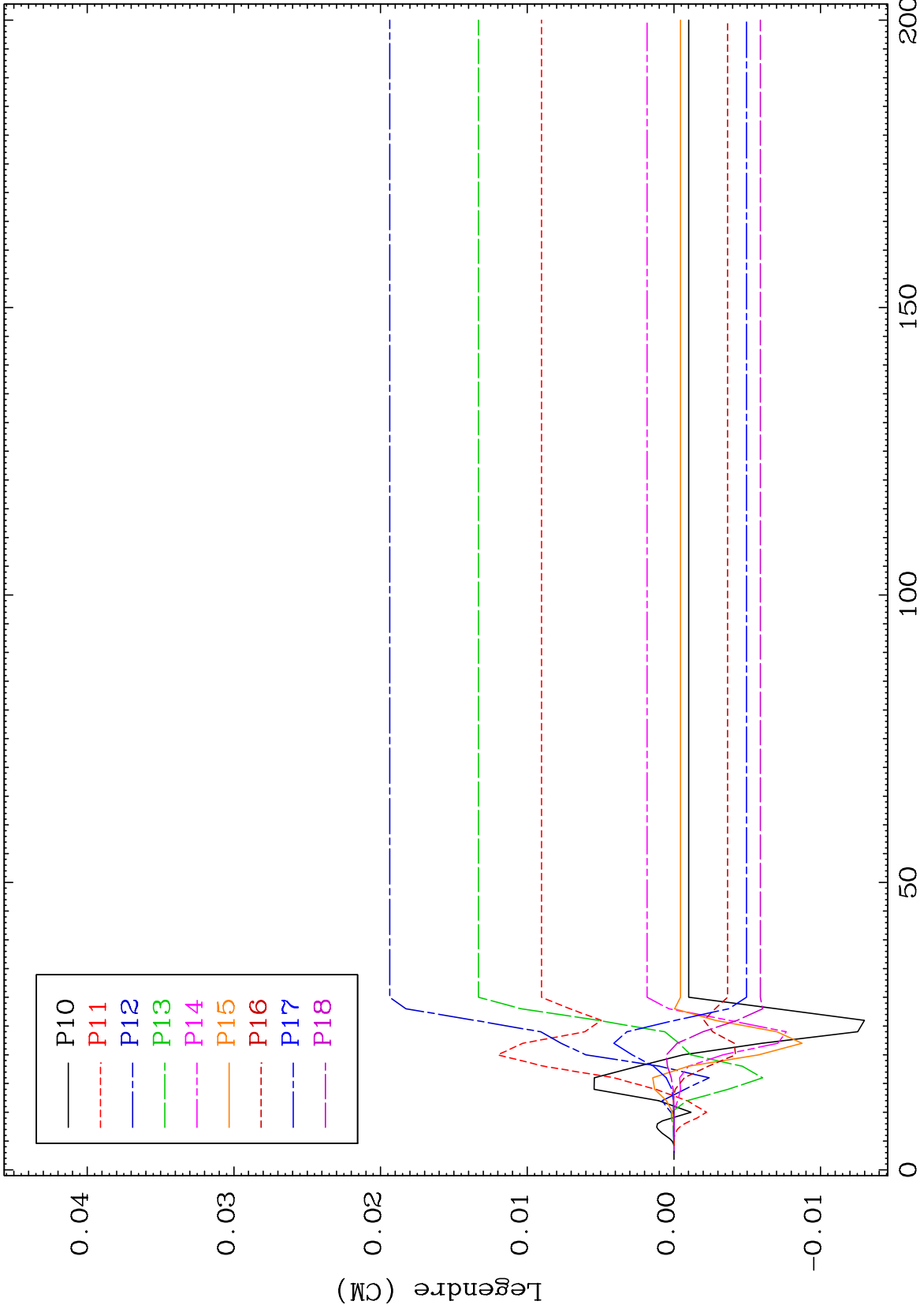
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



62

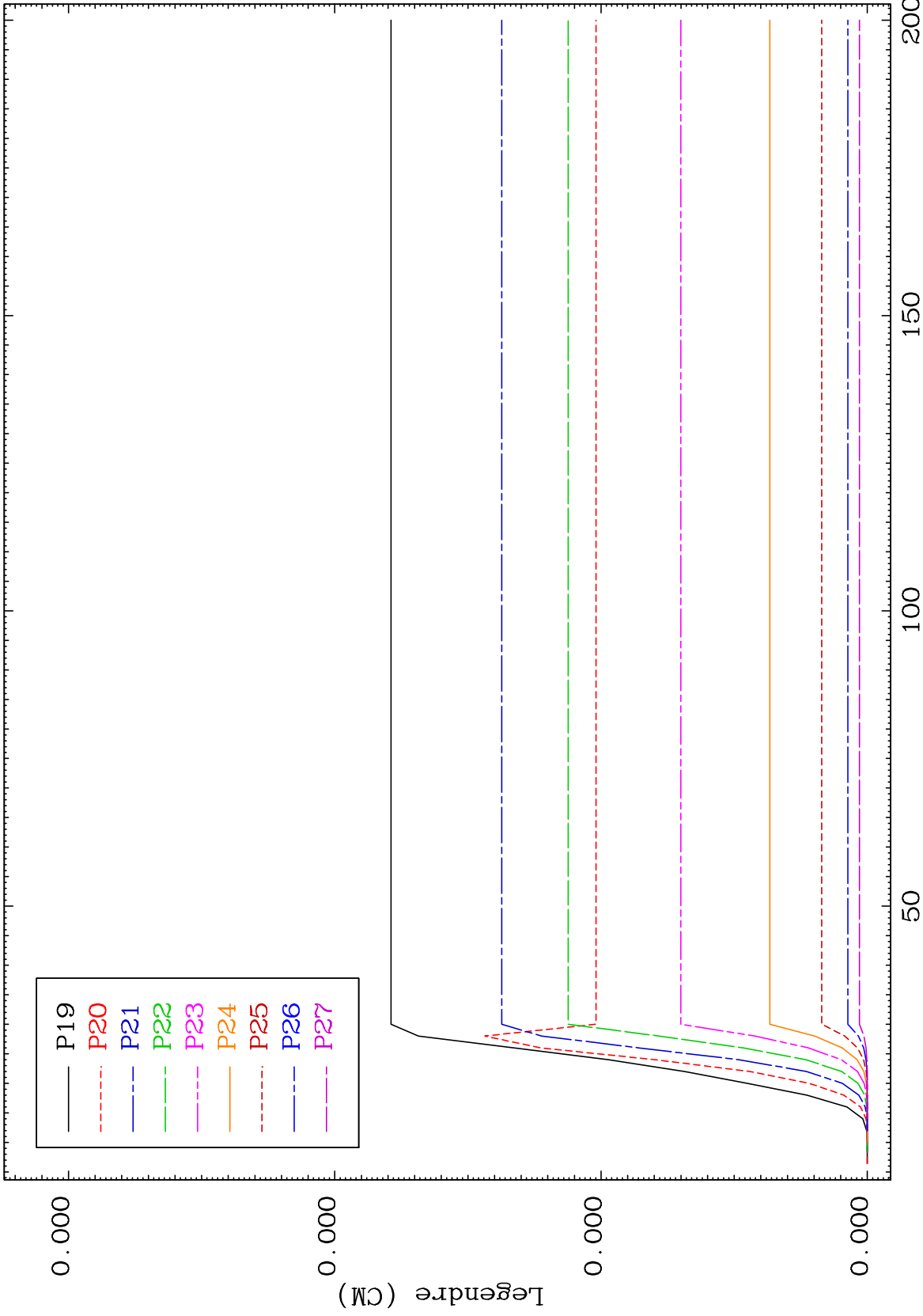
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



63

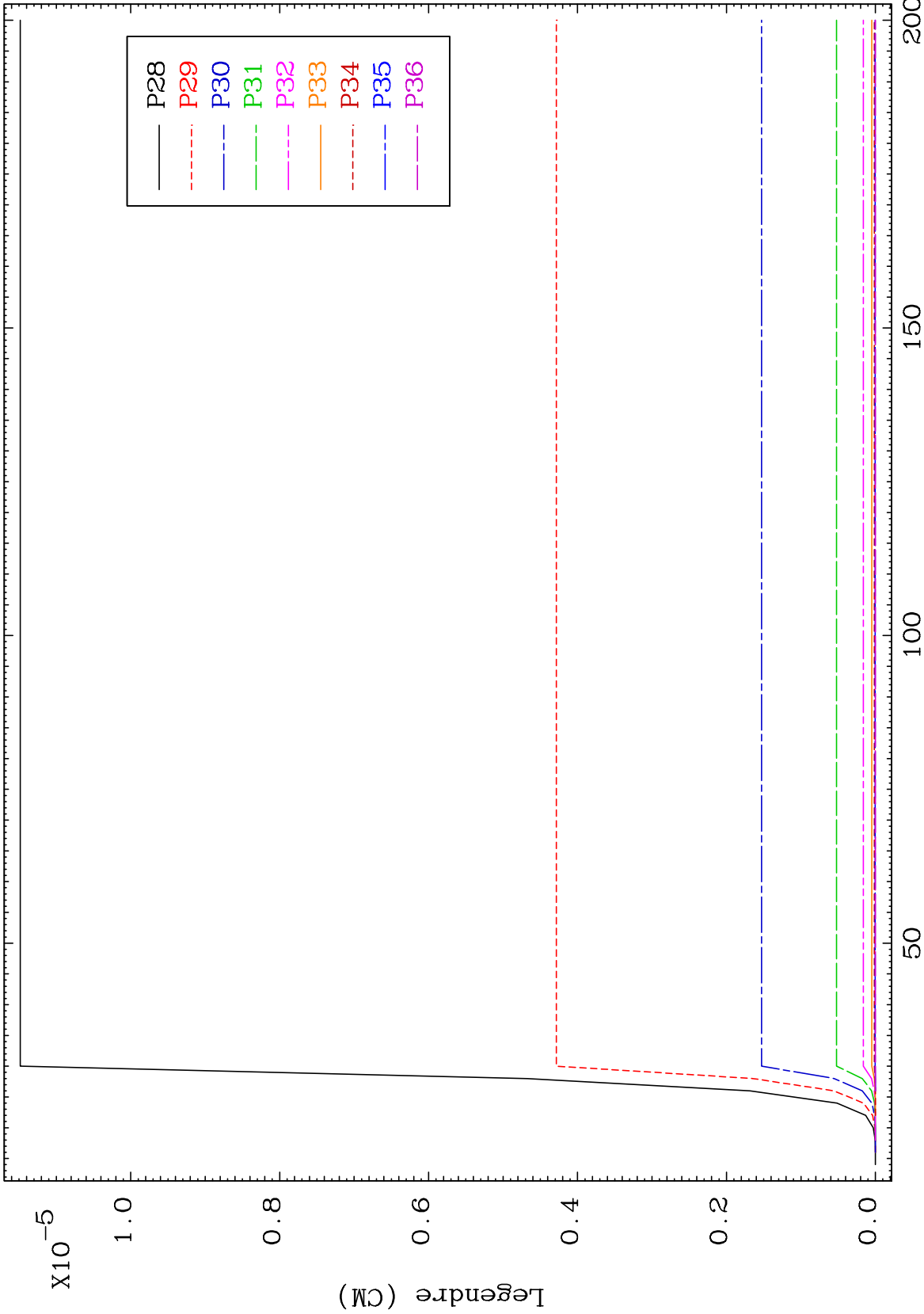
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178

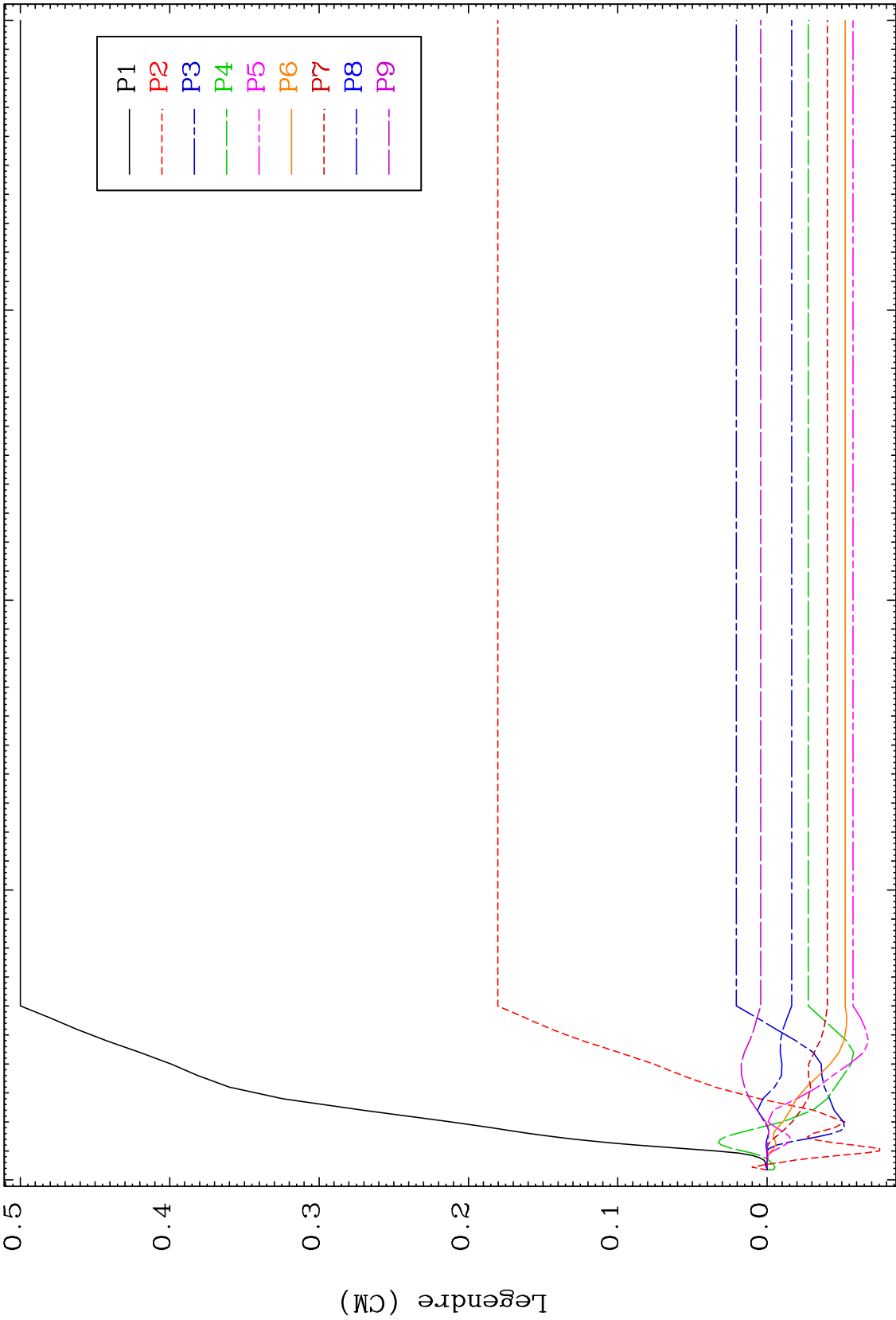


64

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 63 (n,n') Level Legendre Coefficients 70-Yb-178

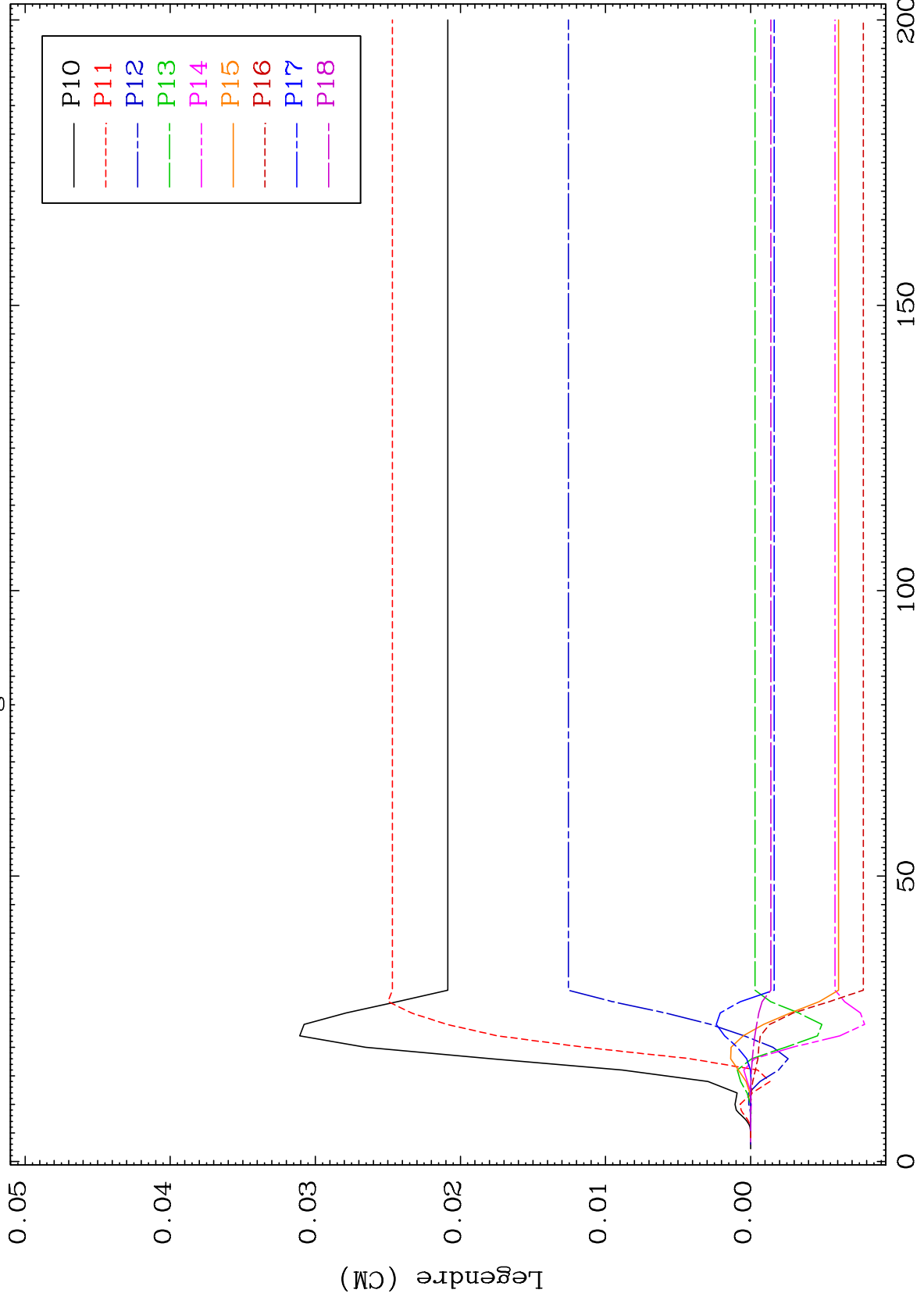


65 Incident Energy (MeV) 70-Yb-178

MAT 7055

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

70-Yb-178



66

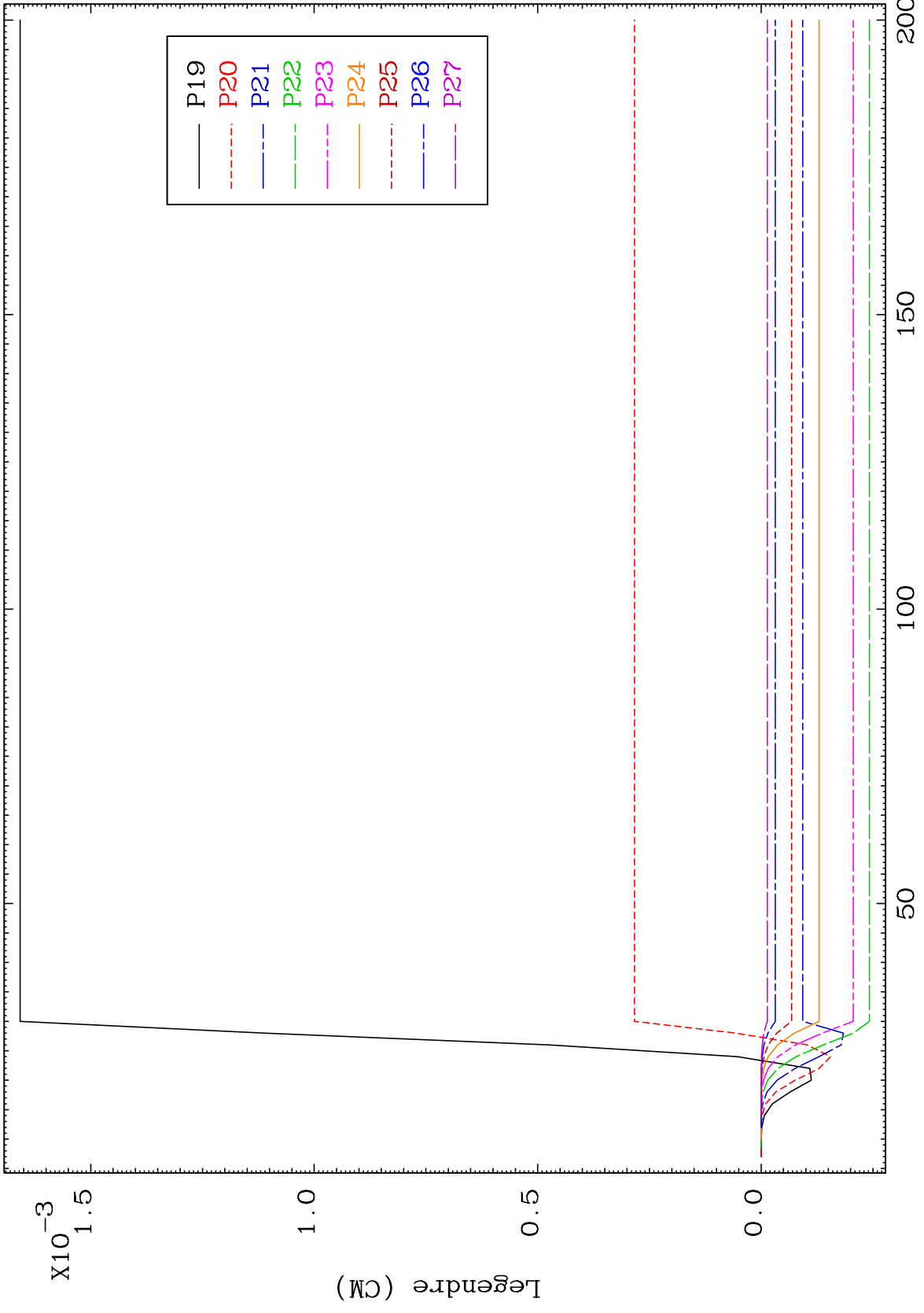
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178

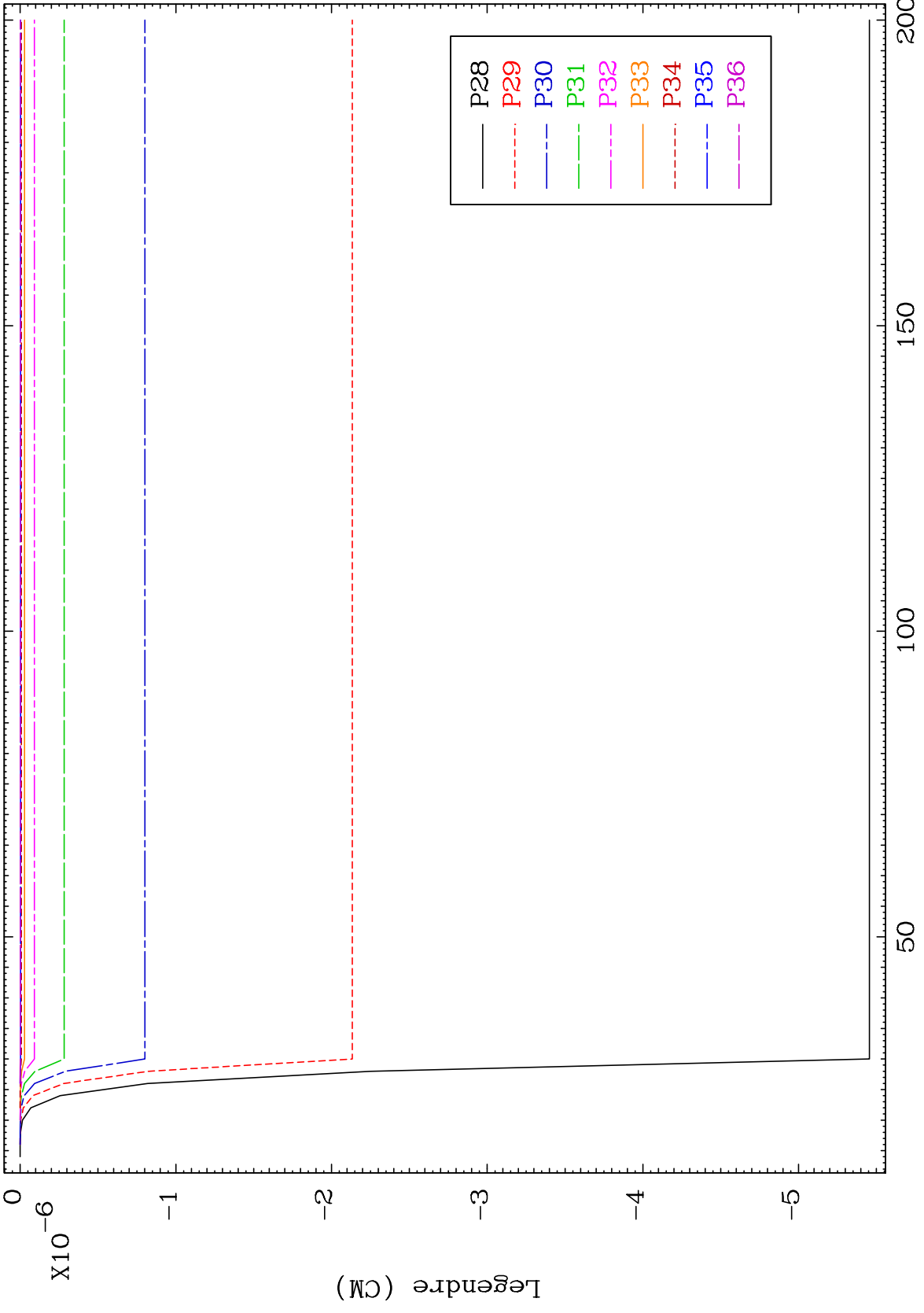


67

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 63 (n,n') Level Legendre Coefficients 70-Yb-178

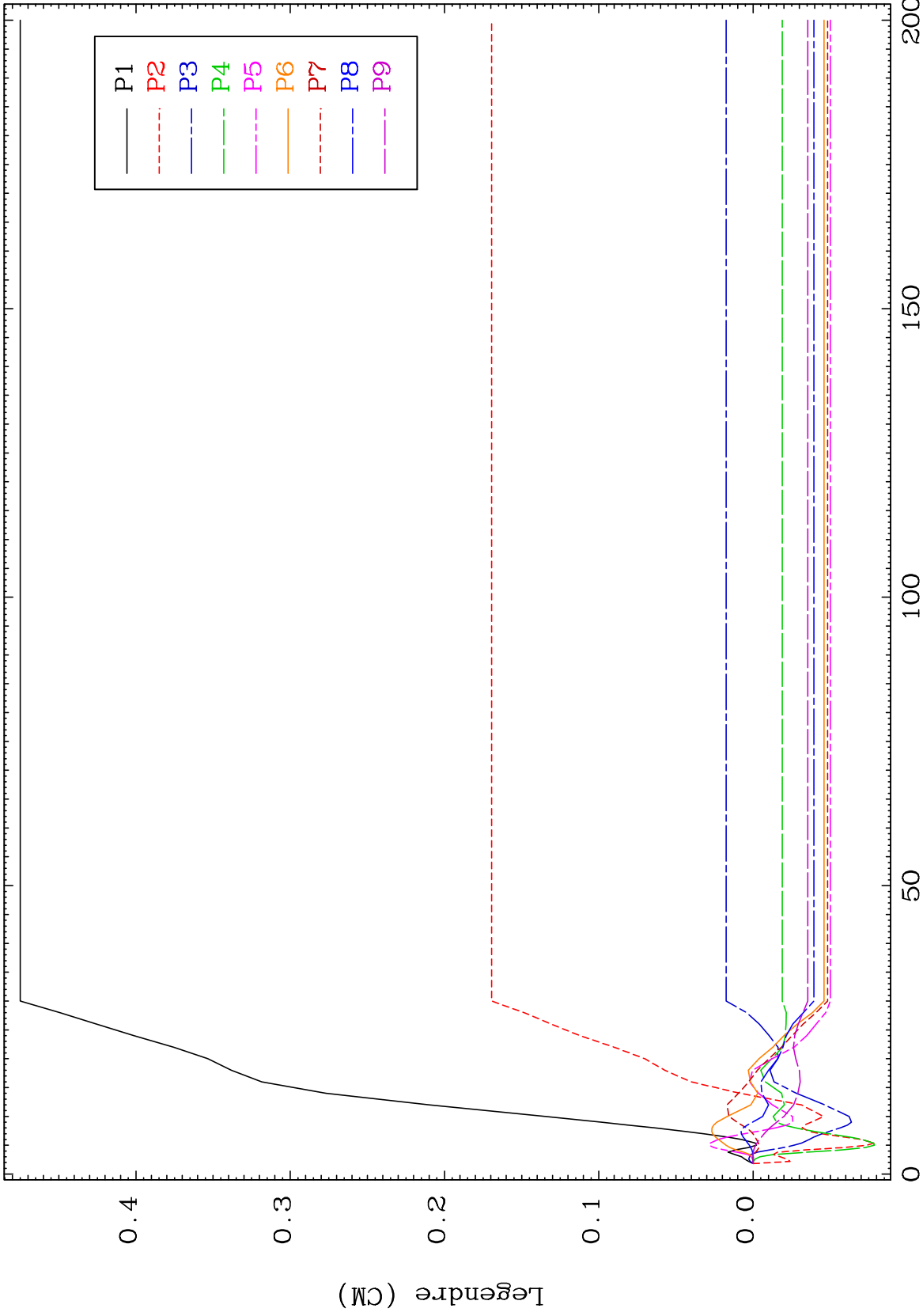


68 70-Yb-178

MAT 7055

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

70-Yb-178



69

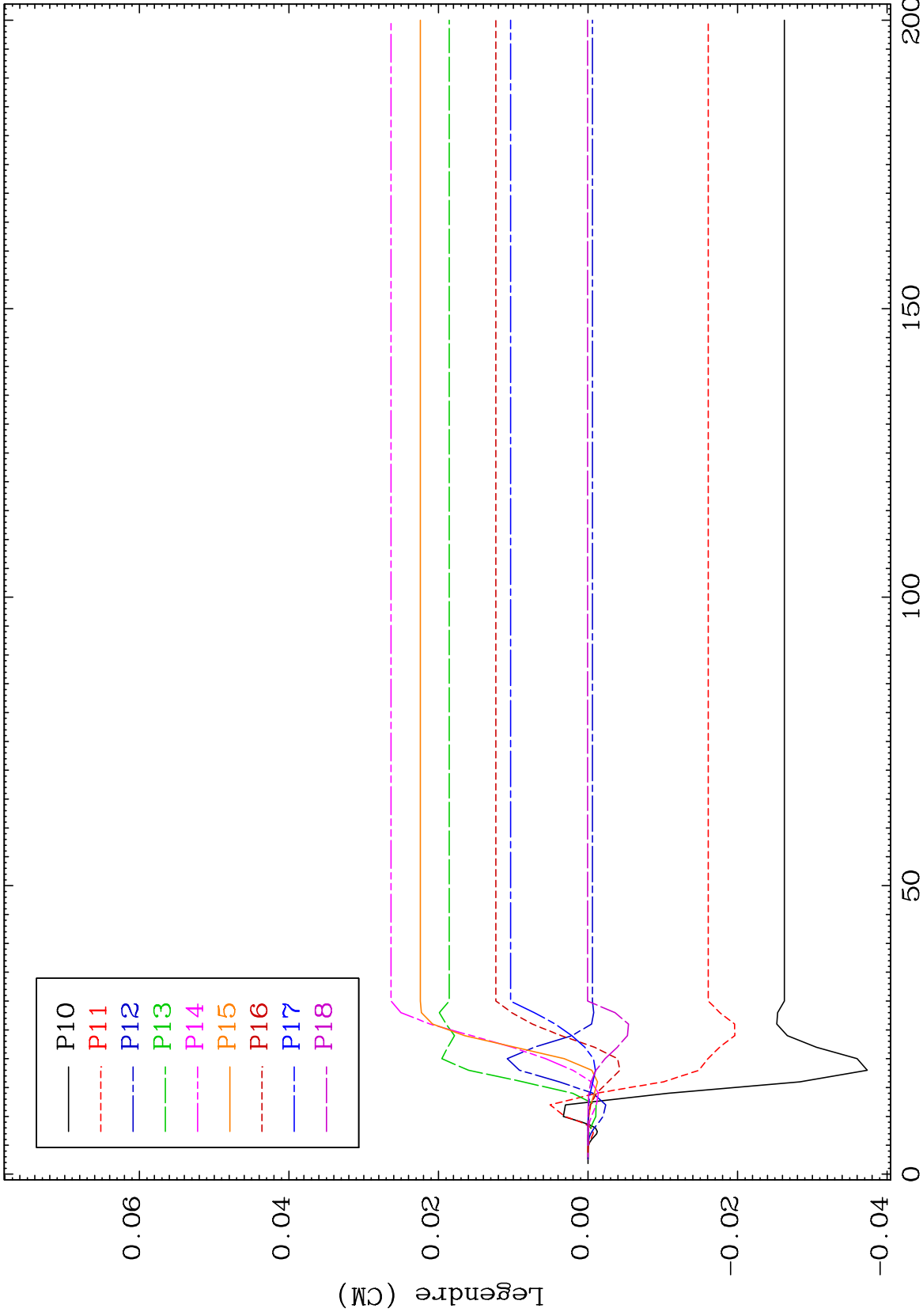
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



70

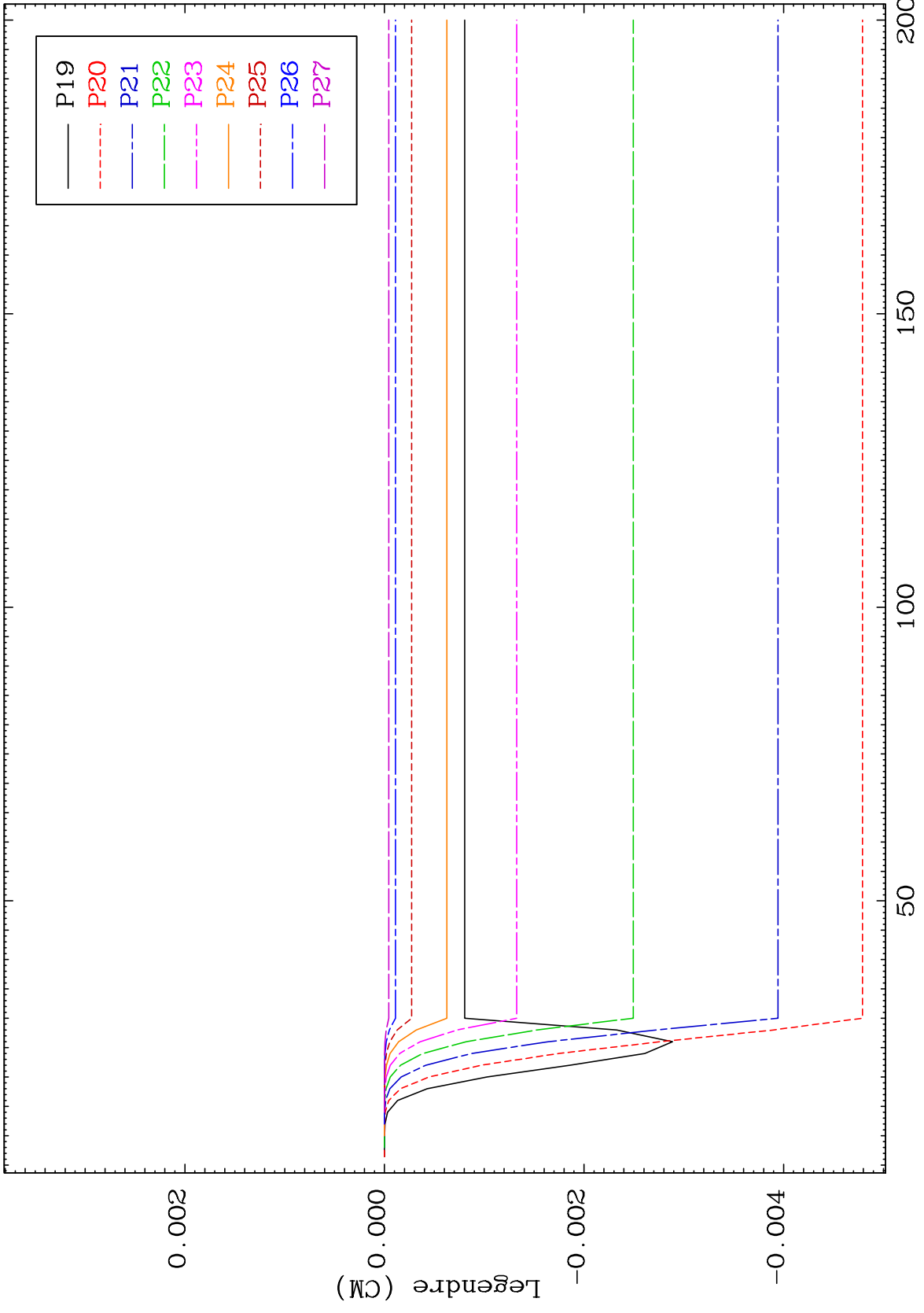
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



71

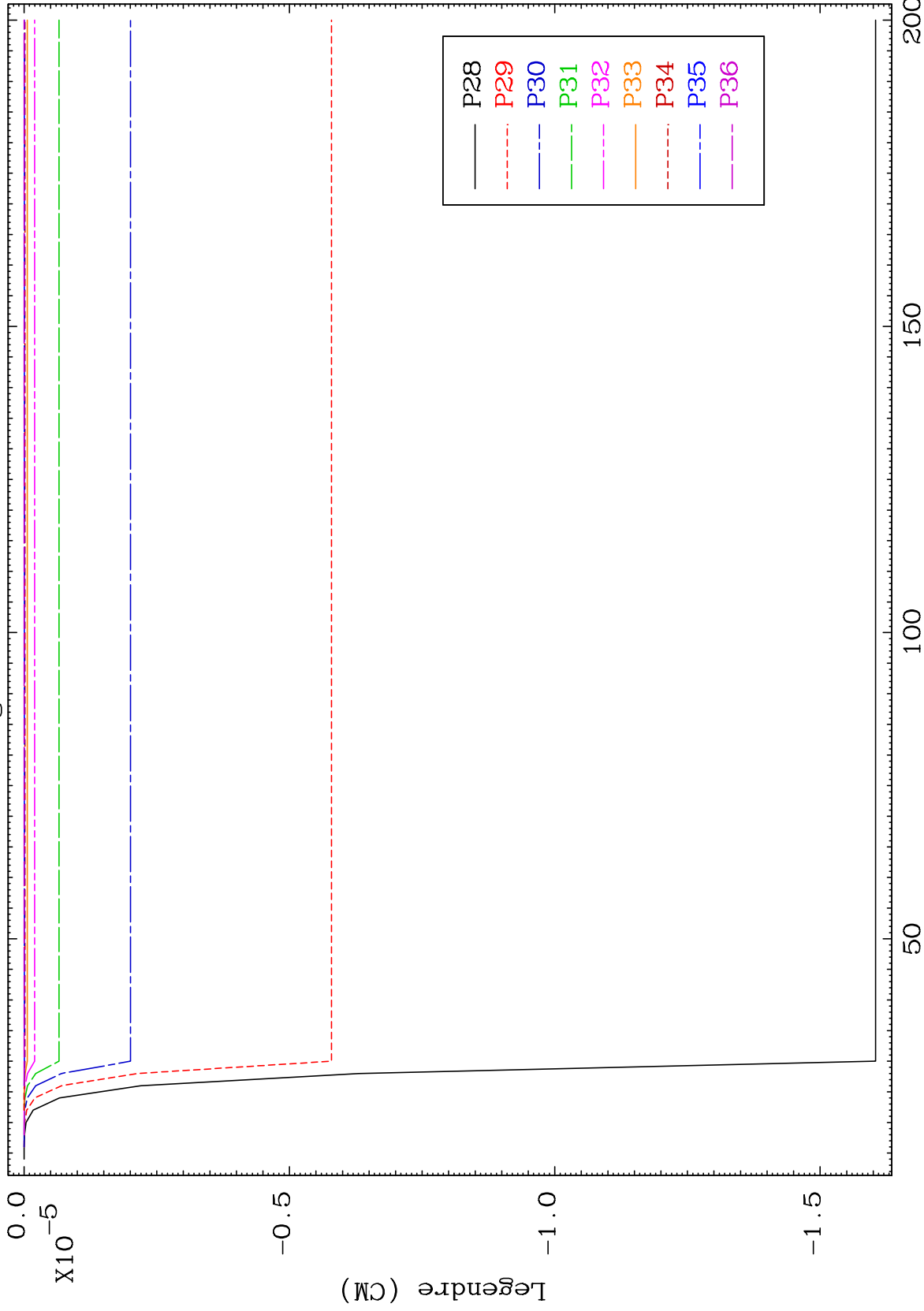
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



70-Yb-178

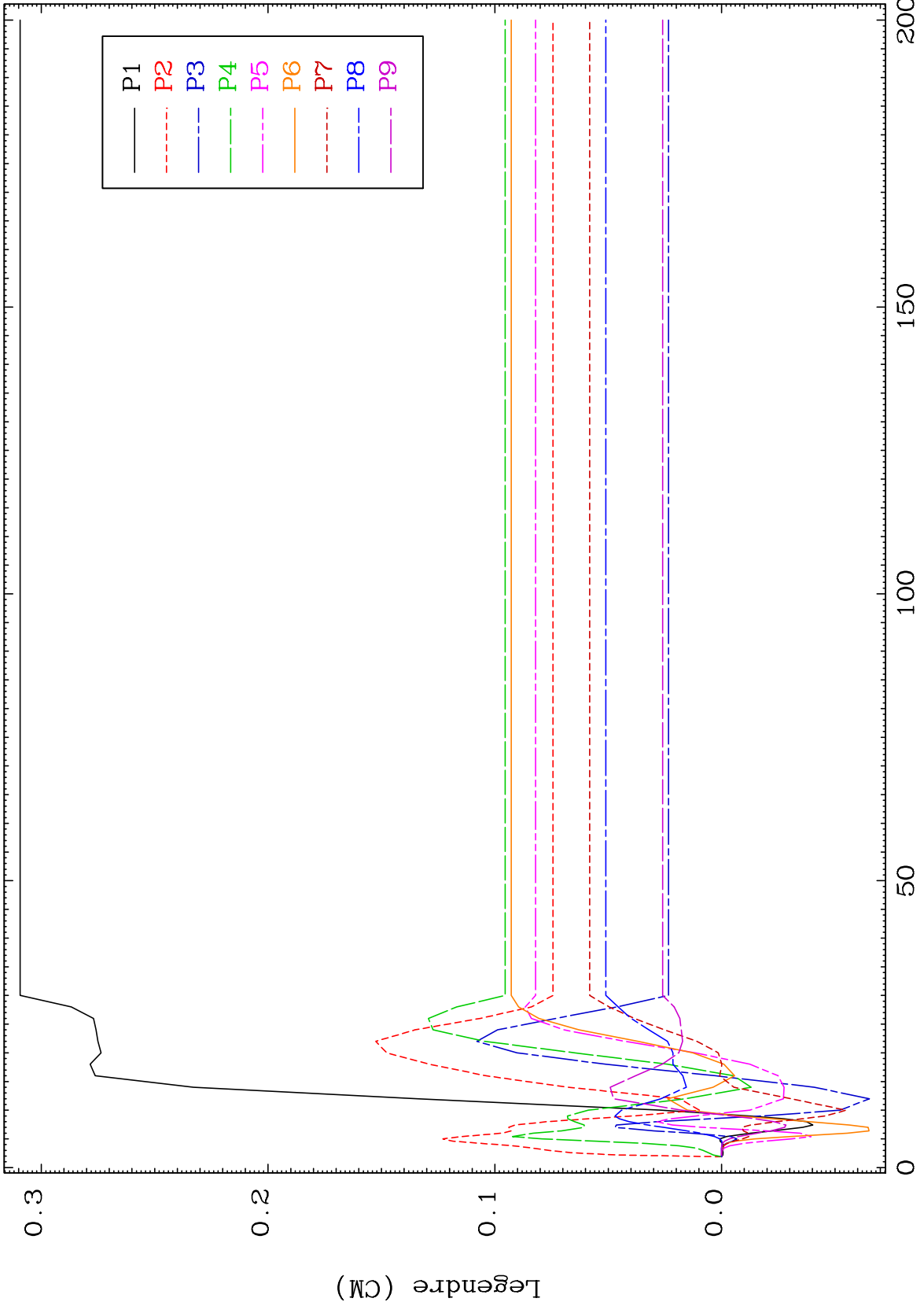
Incident Energy (MeV)

72

MAT 7055

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

70-Yb-178



73

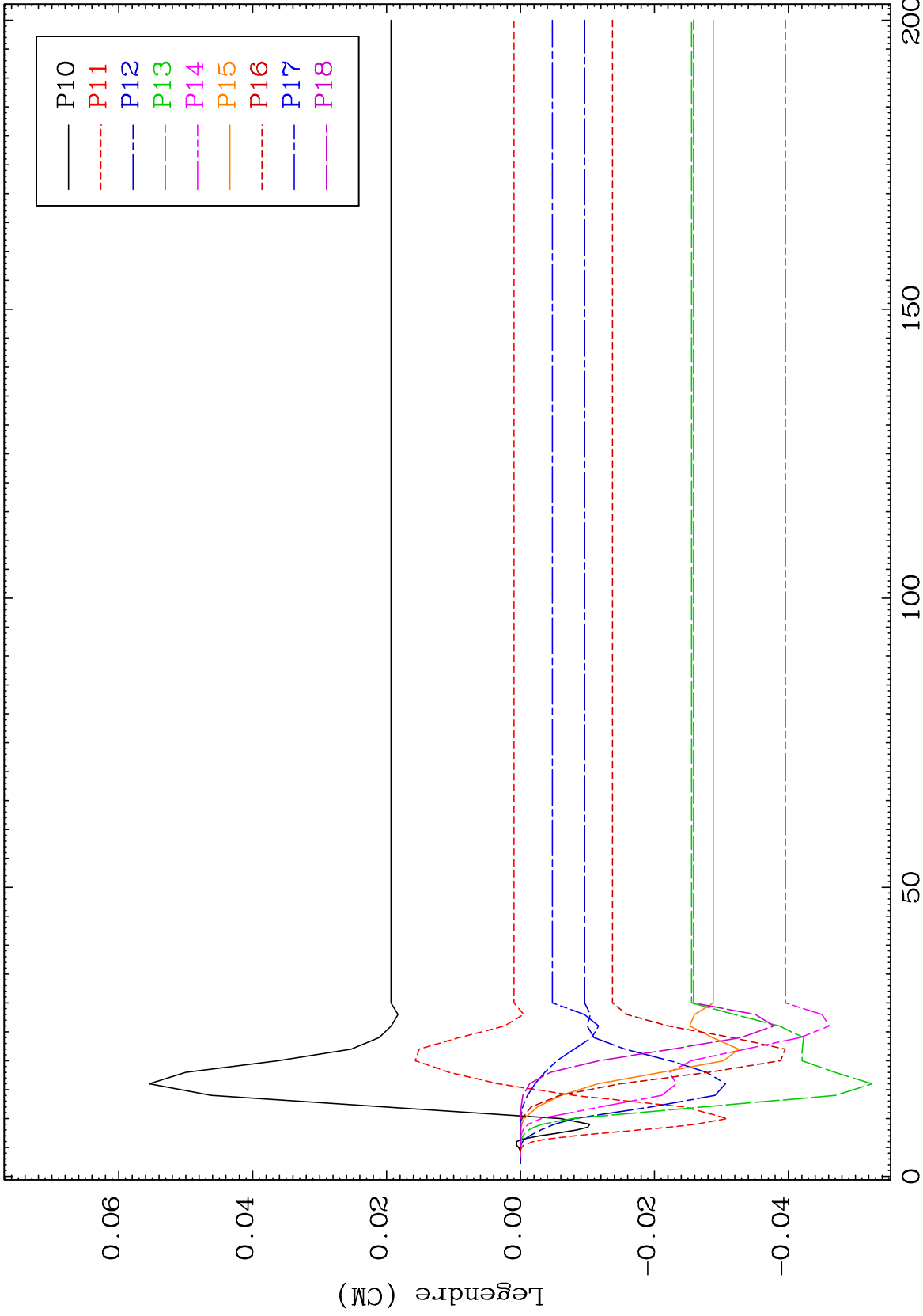
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



74

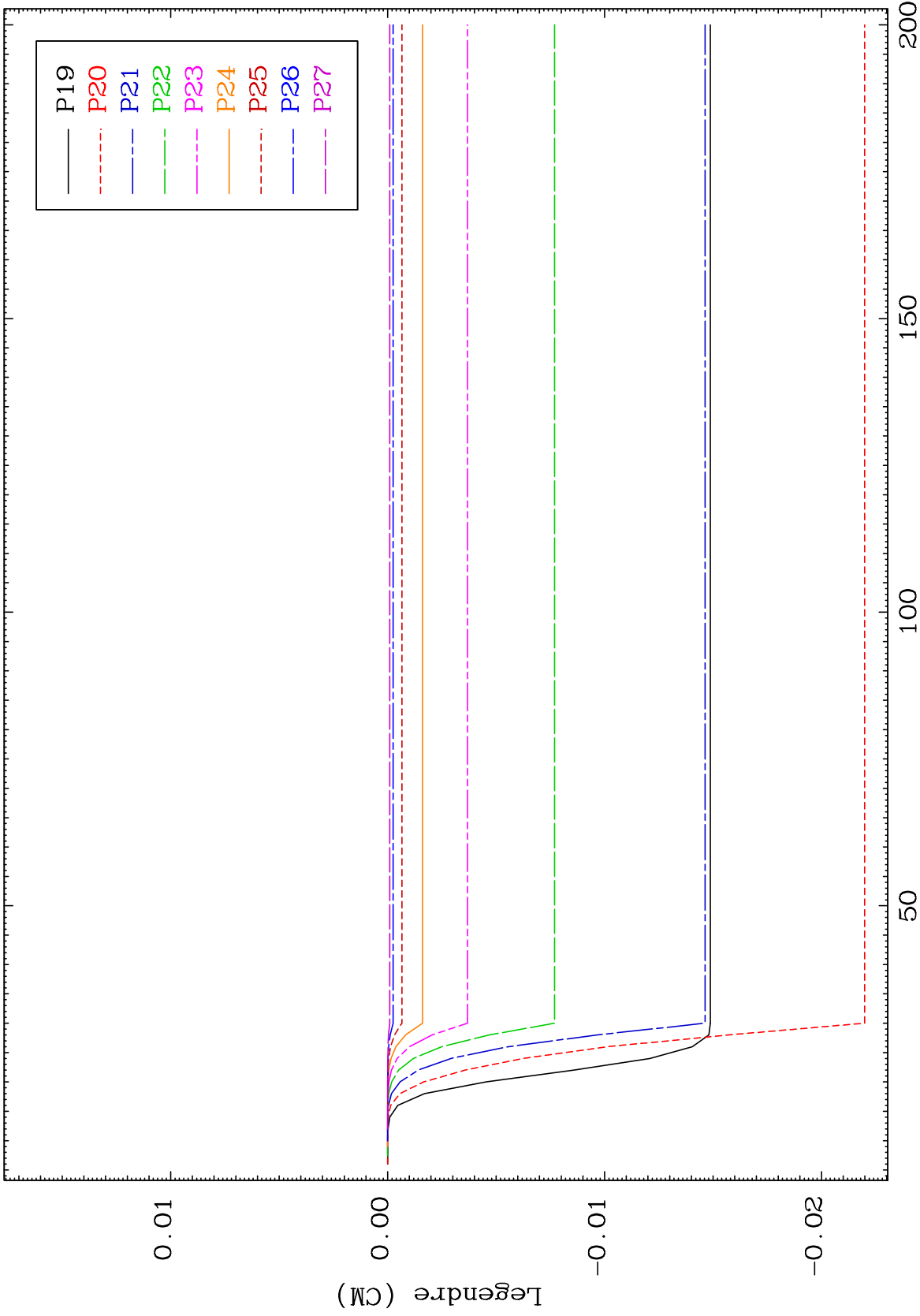
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



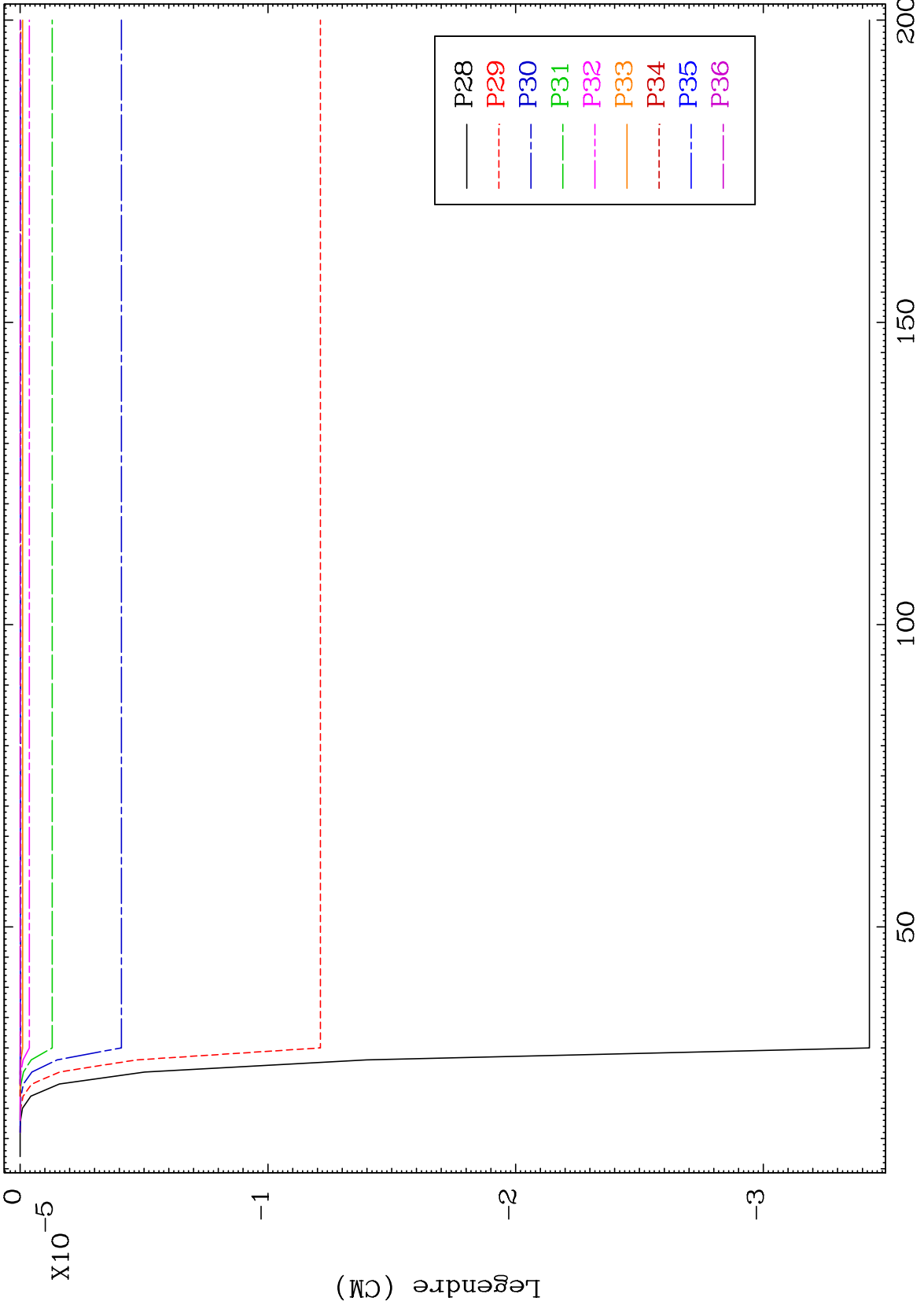
75

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 65 (n,n') Level 70-Yb-178

Legendre Coefficients

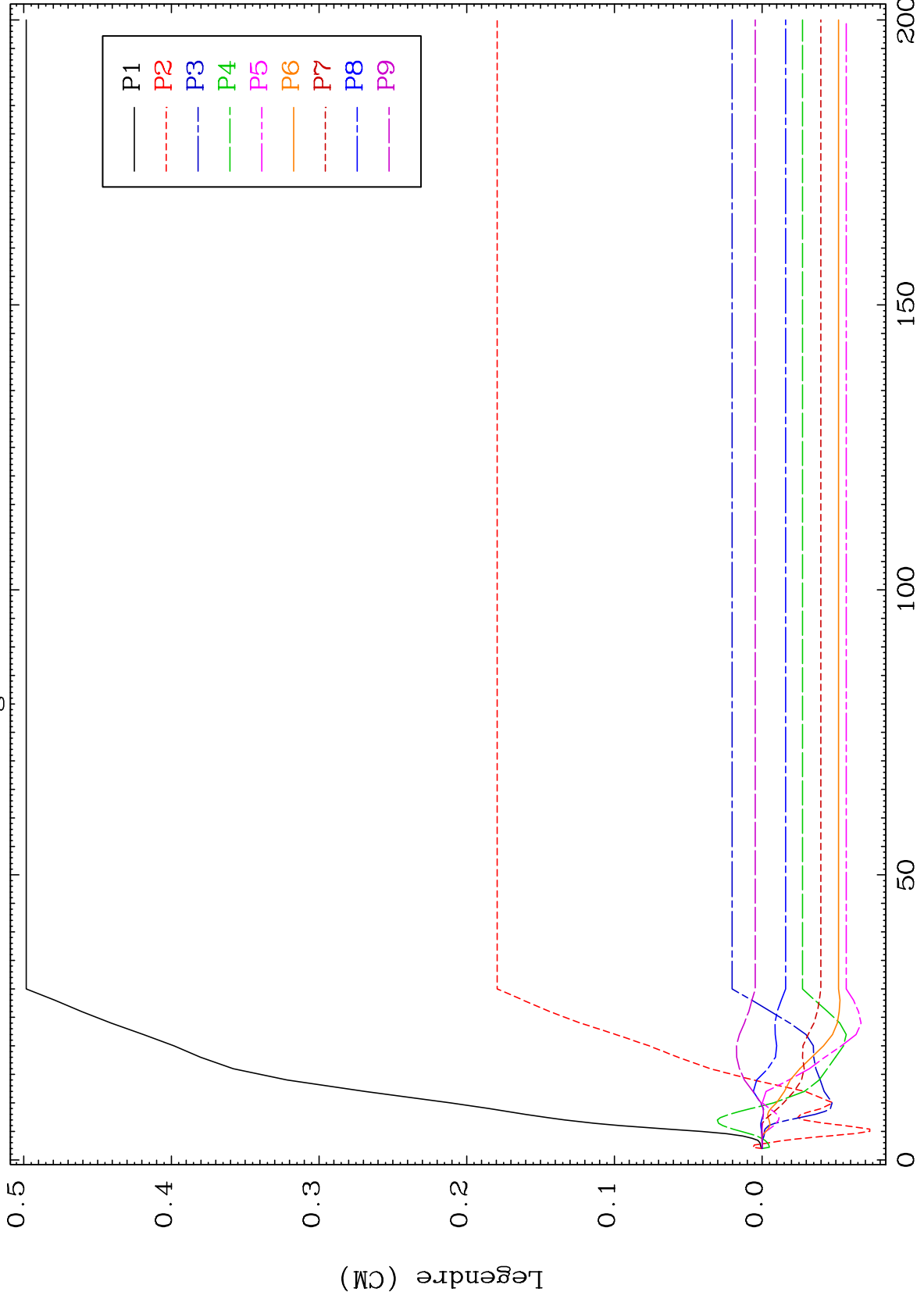


76 70-Yb-178

MAT 7055

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

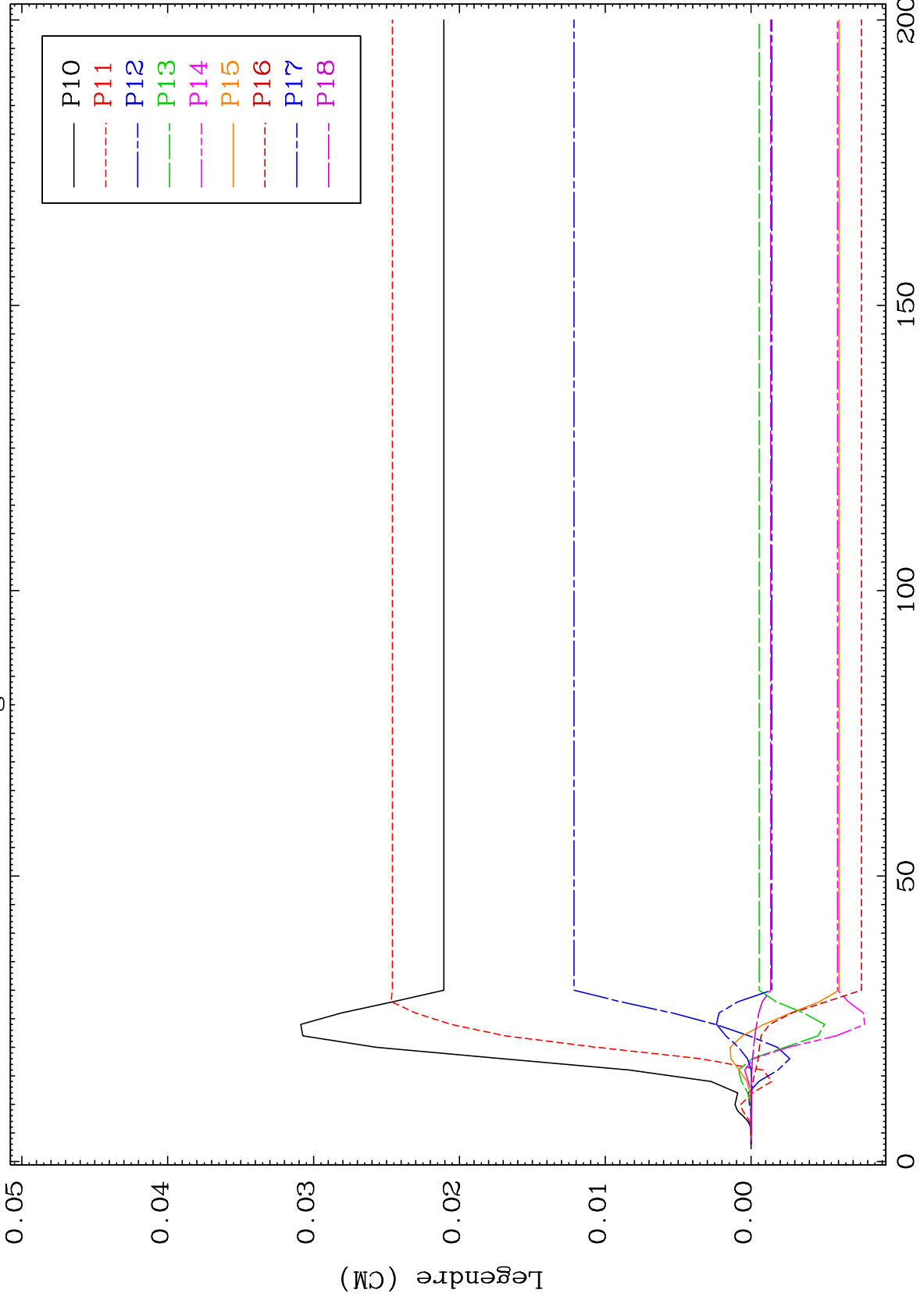
70-Yb-178



77

70-Yb-178

MAT 7055 MT= 66 (n,n') Level Legendre Coefficients 70-Yb-178

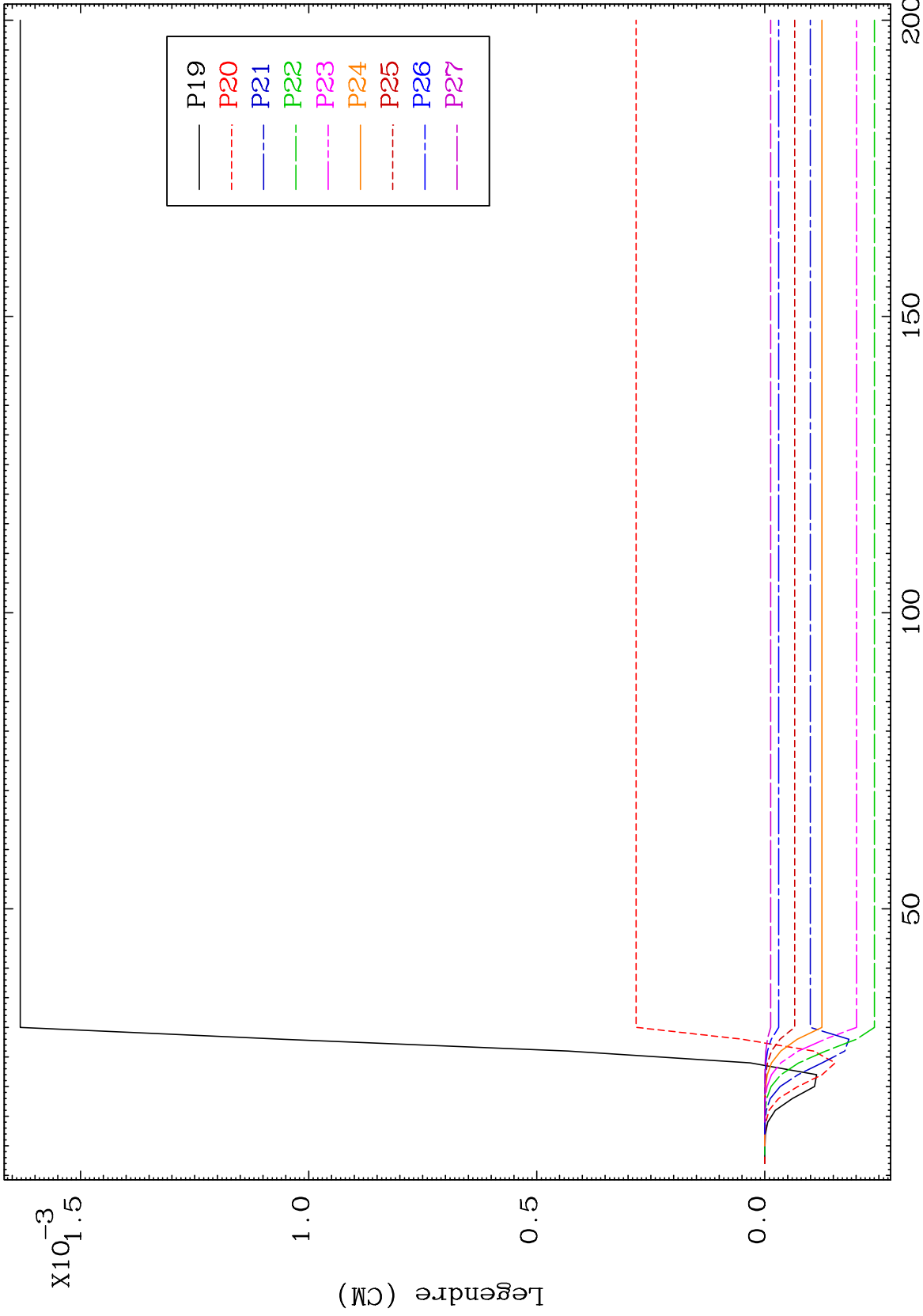


78 70-Yb-178

MAT 7055

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

70-Yb-178



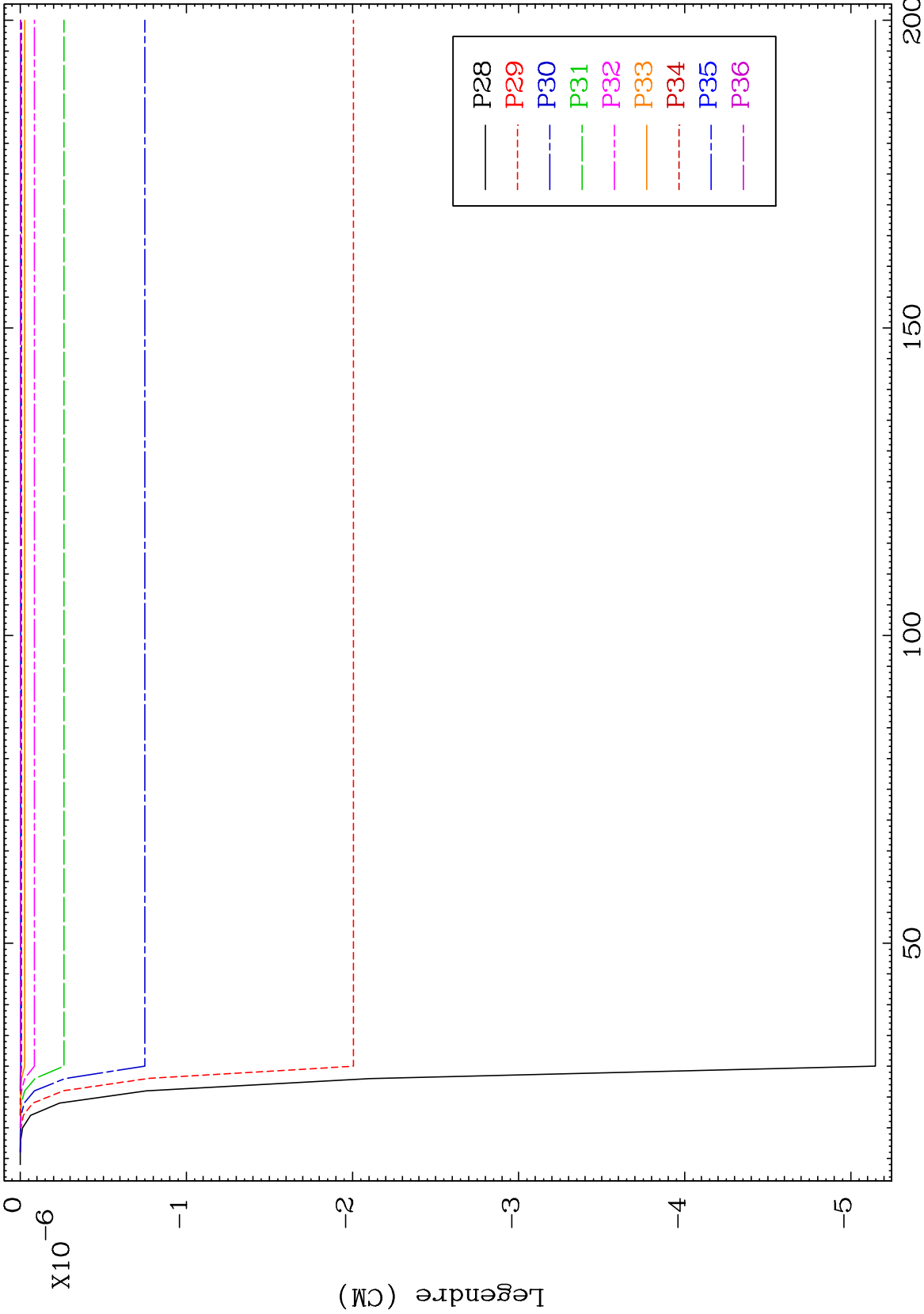
79

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 66 (n,n') Level 70-Yb-178

Legendre Coefficients



70-Yb-178

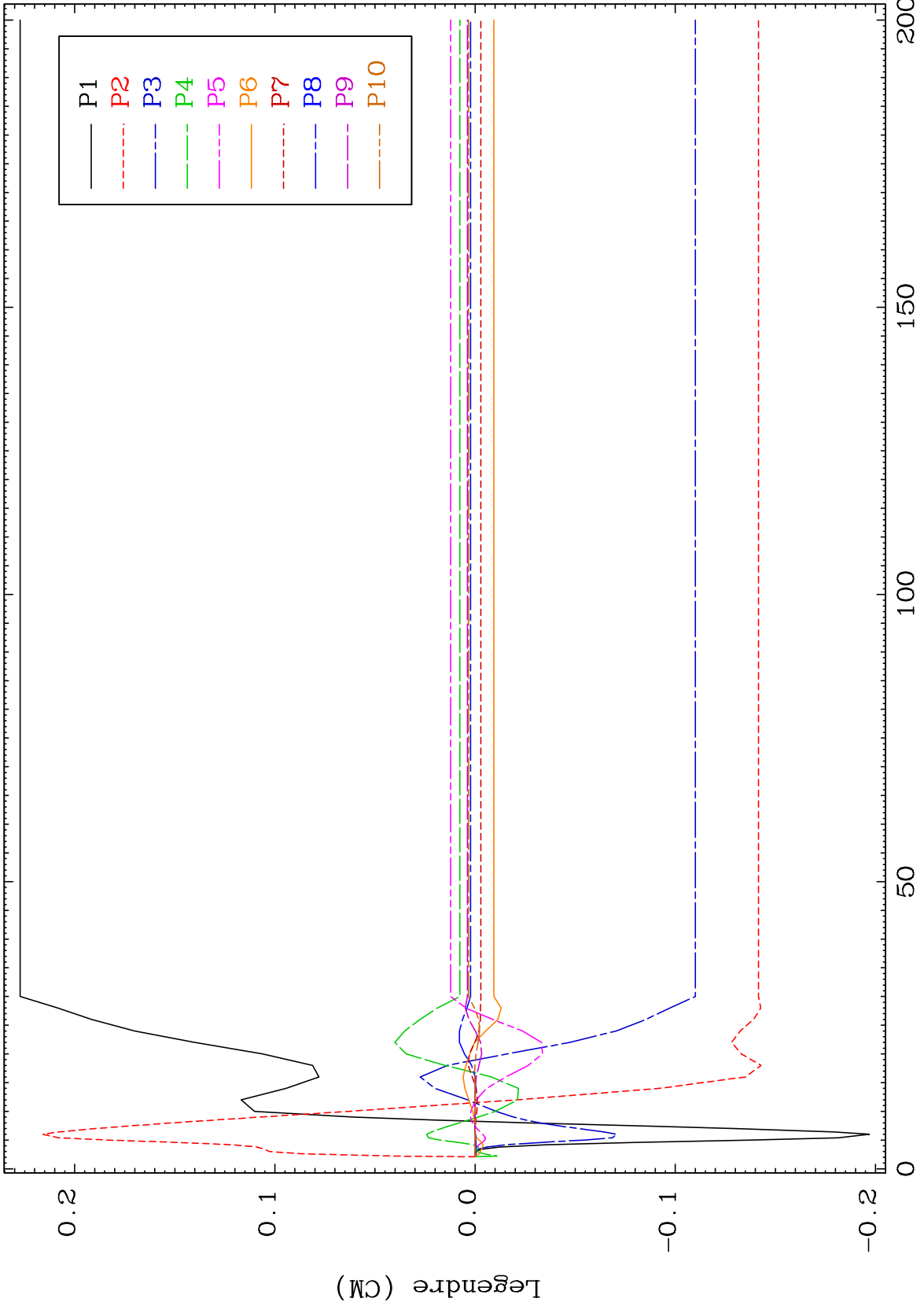
Incident Energy (MeV)

80

MAT 7055

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

70-Yb-178



81

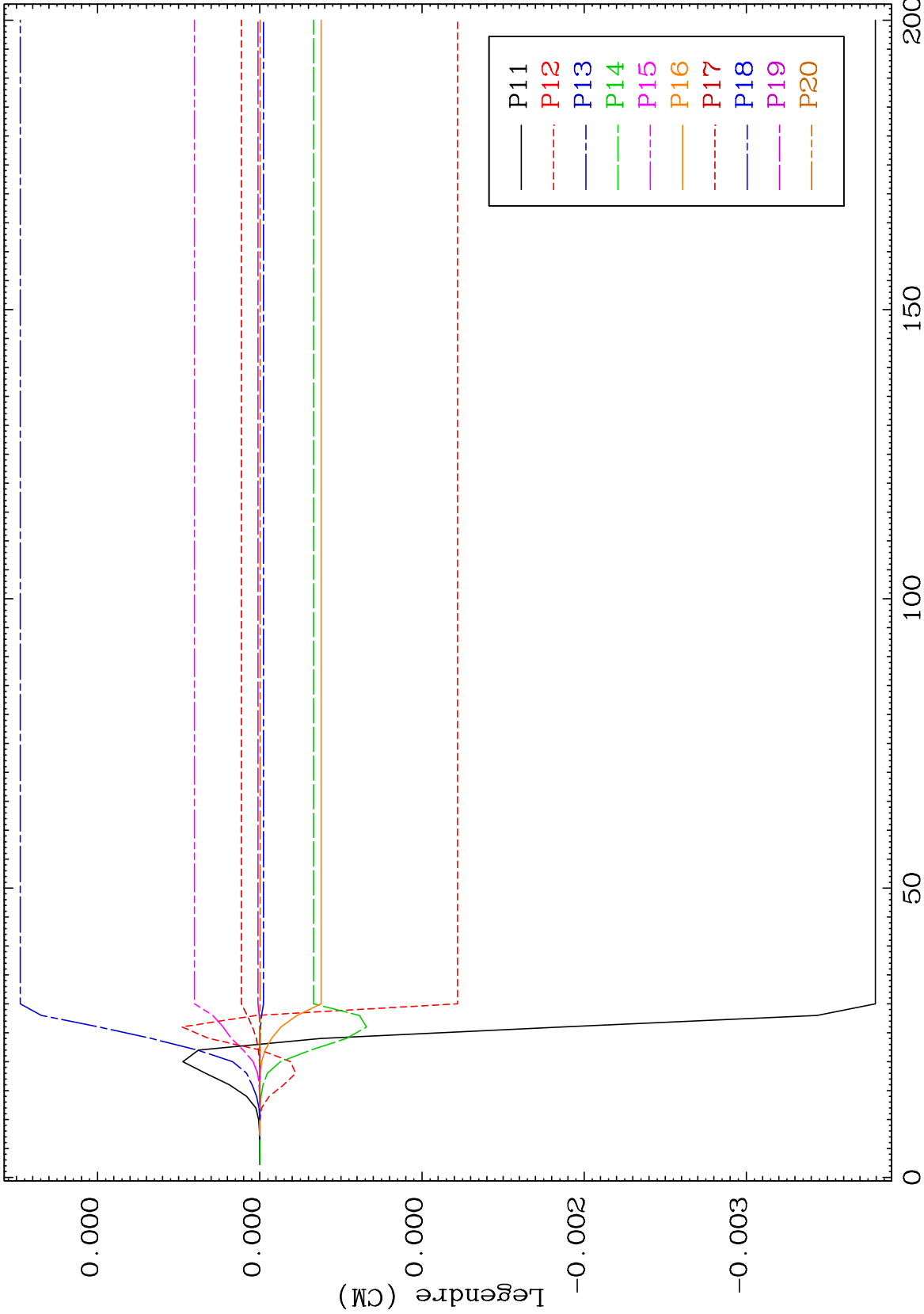
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



82

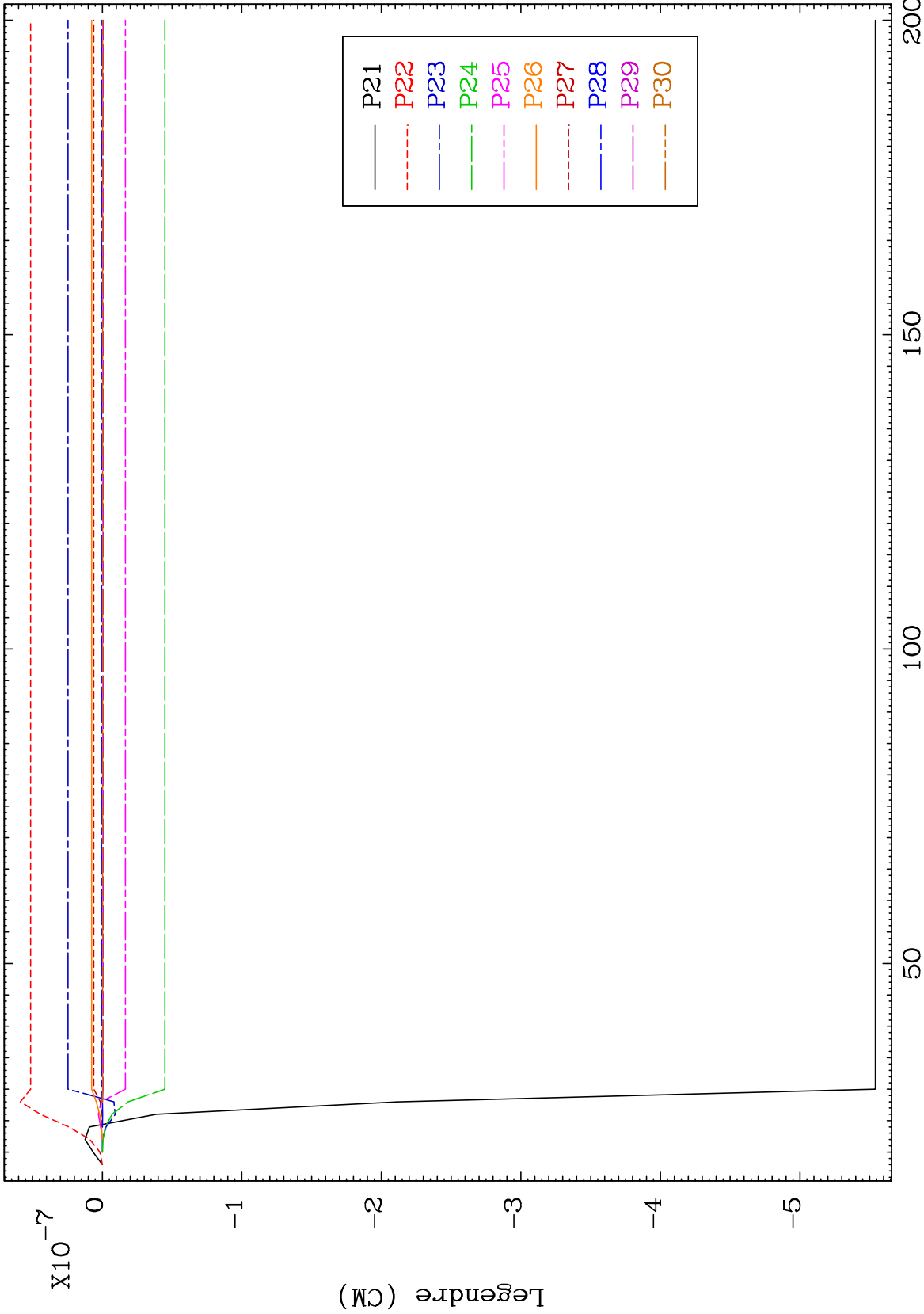
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



83

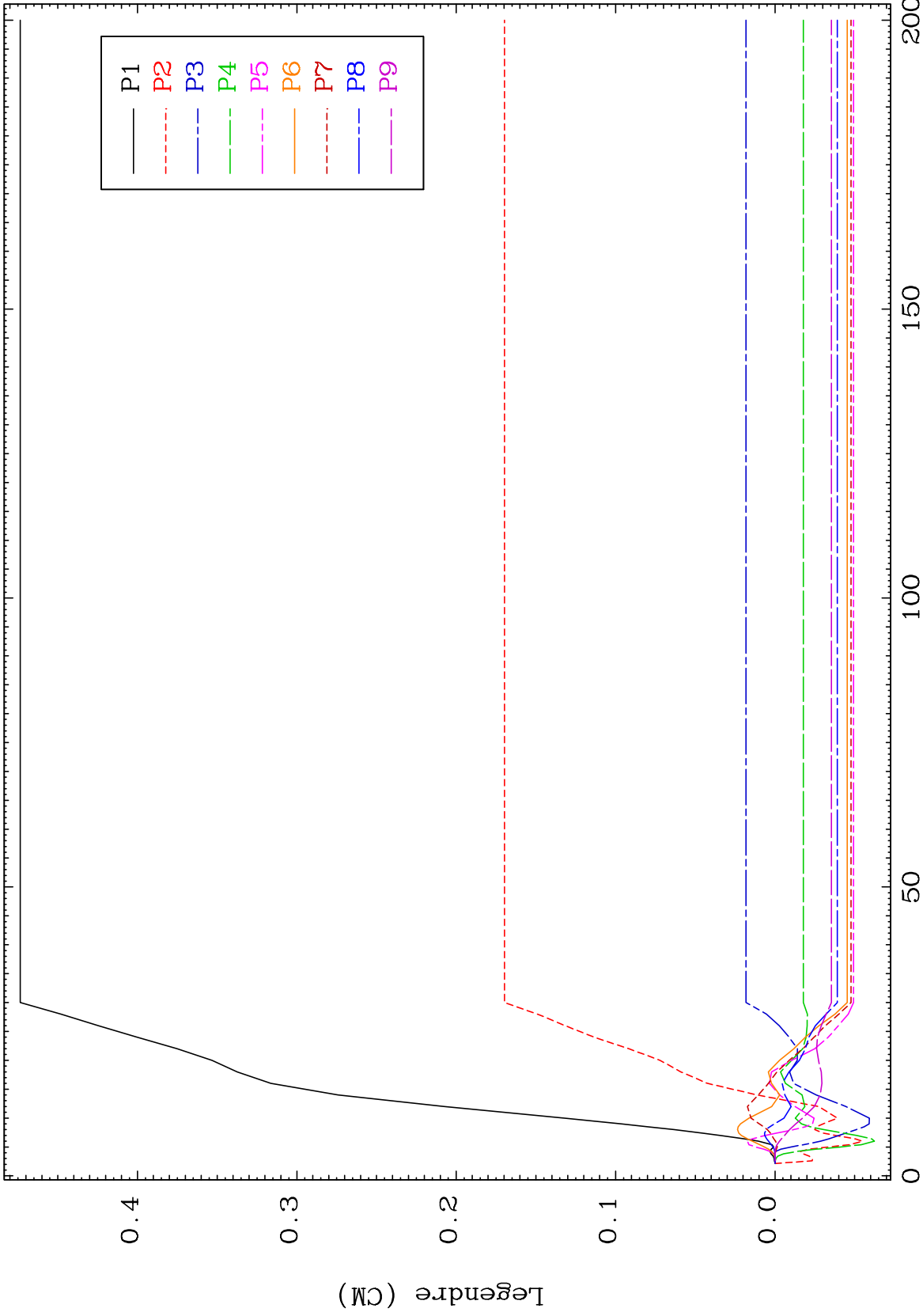
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



84

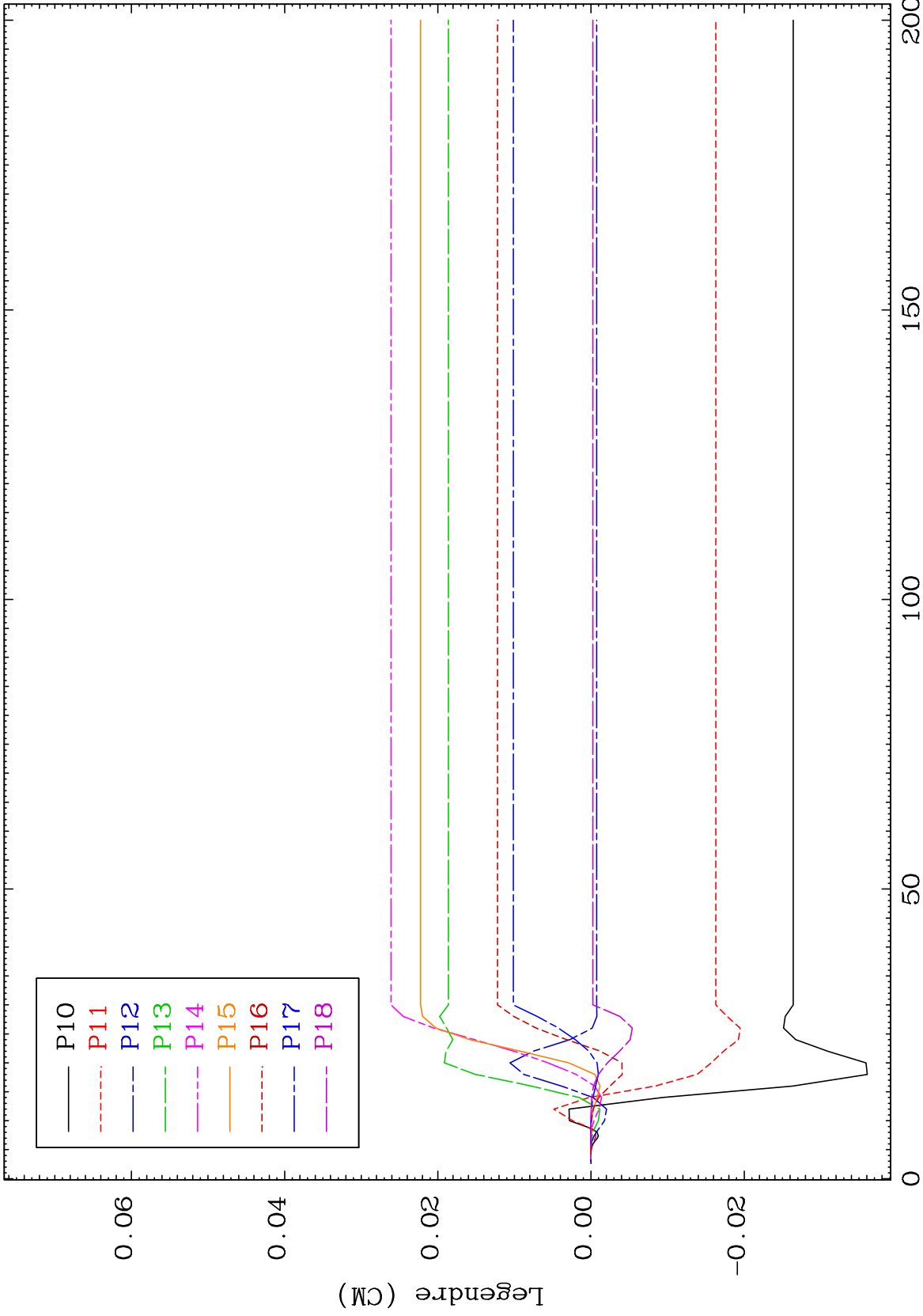
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



85

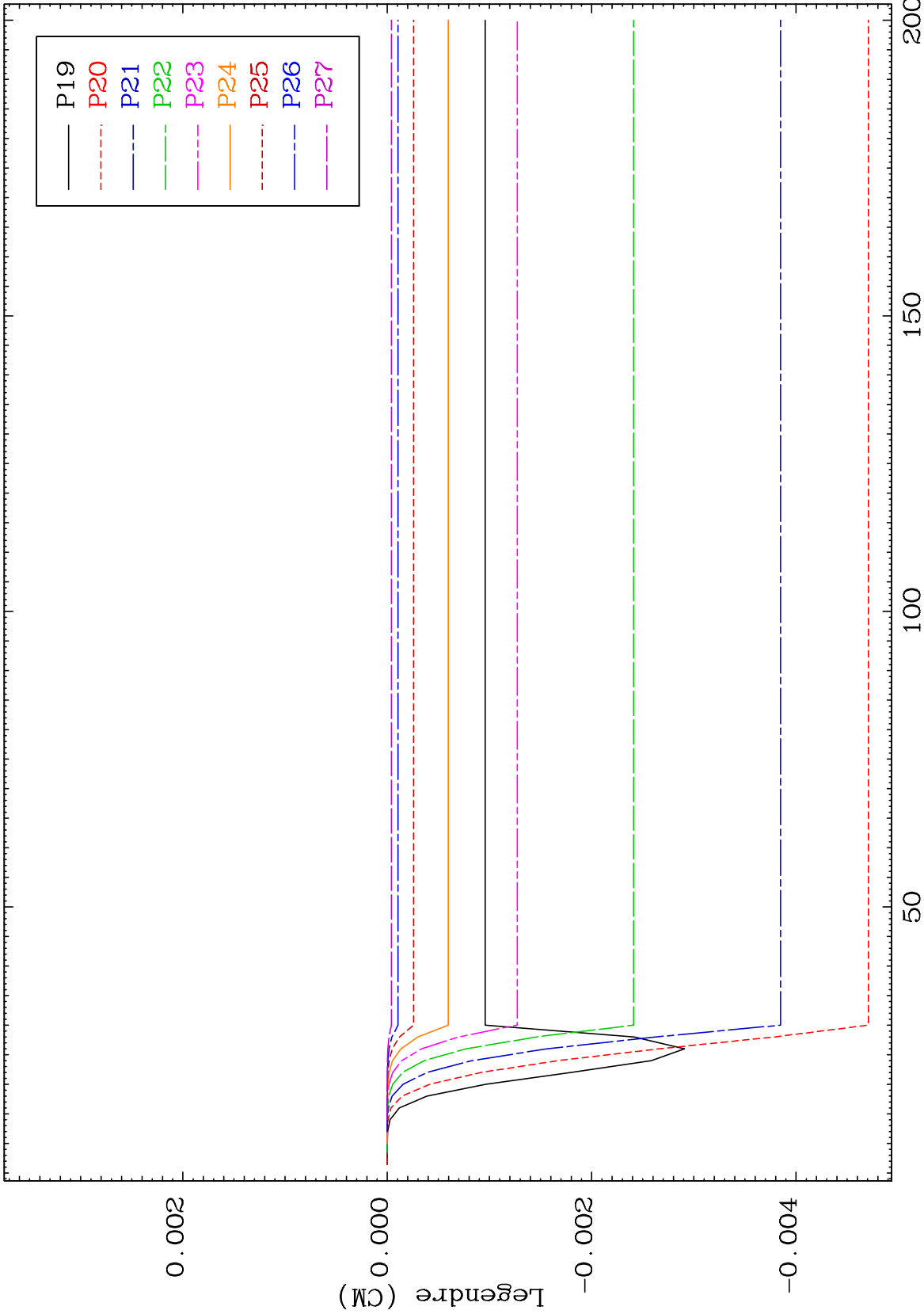
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



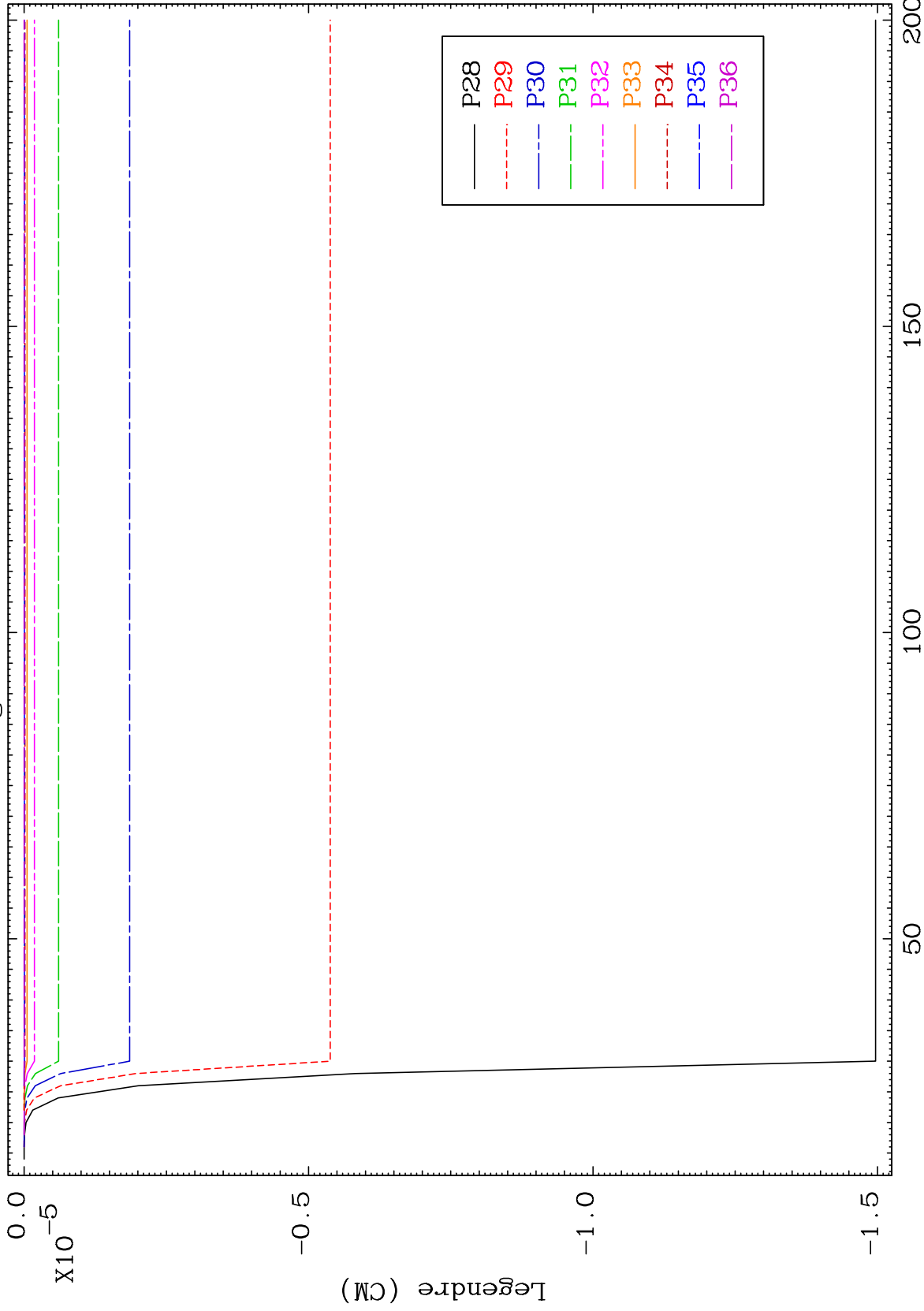
86

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 68 (n, n') Level 70-Yb-178

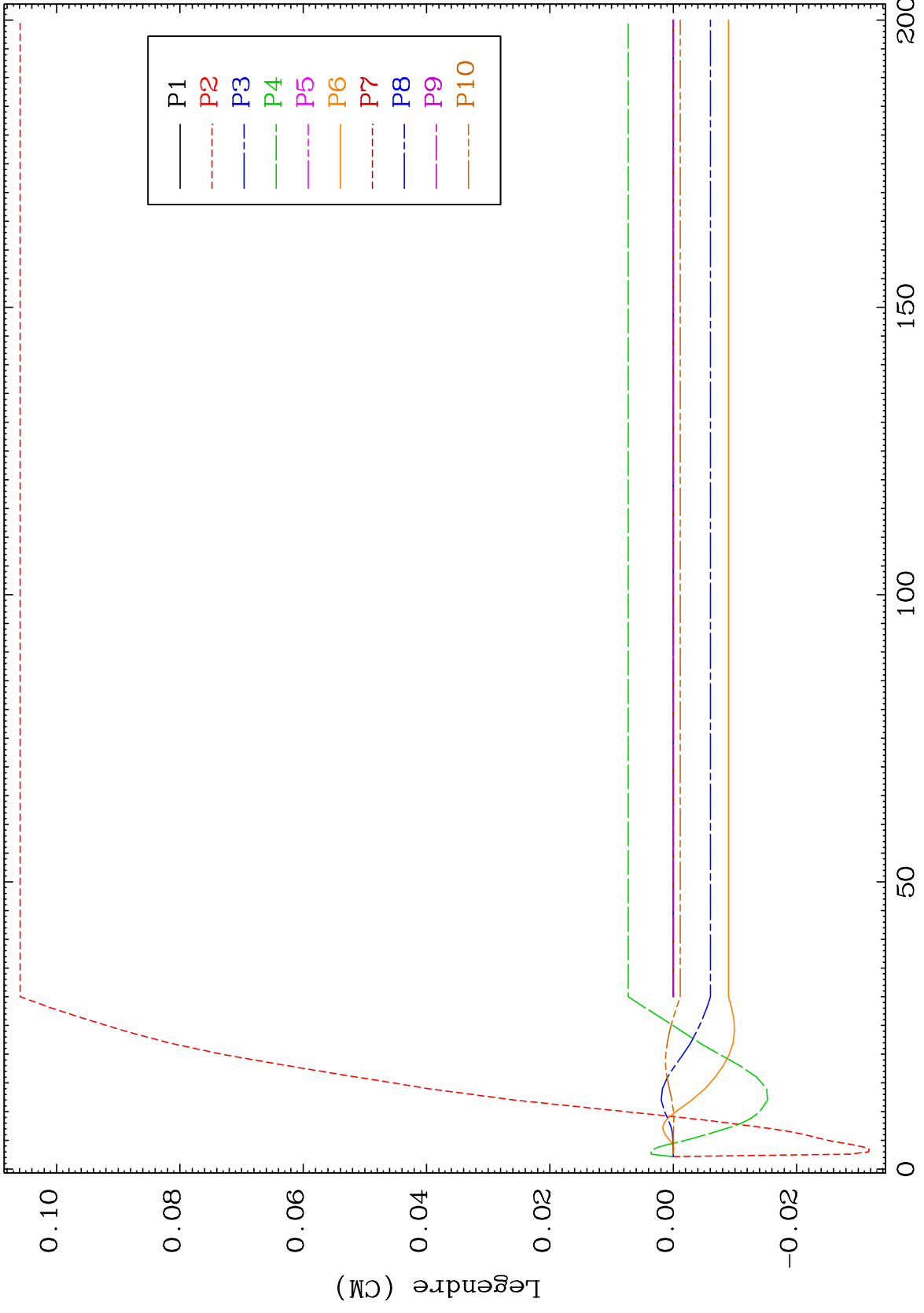
Legendre Coefficients



87

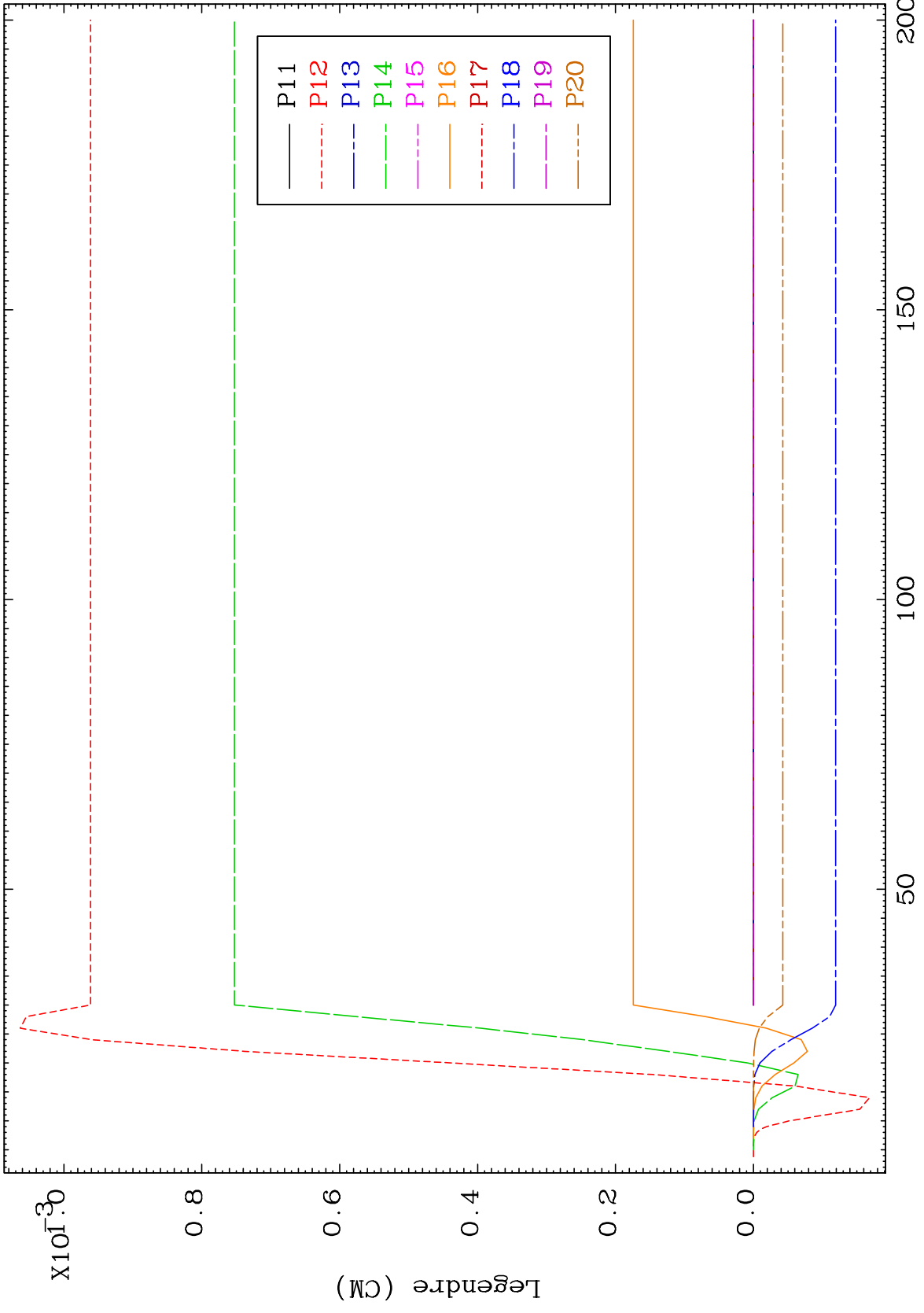
70-Yb-178

MAT 7055 MT= 69 (n,n') Level Legendre Coefficients 70-Yb-178

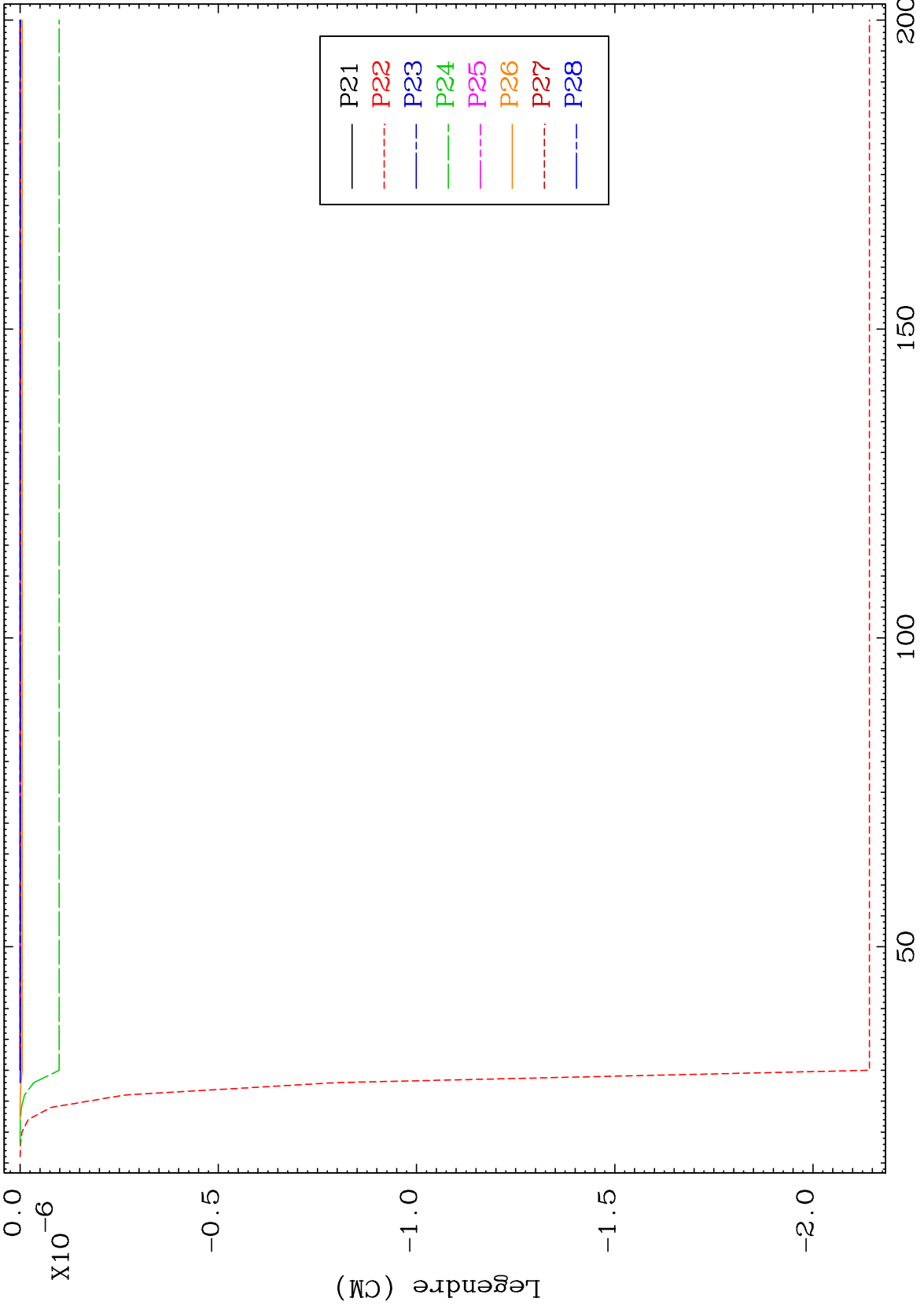


88 70-Yb-178

MAT 7055 MT= 69 (n,n') Level Legendre Coefficients 70-Yb-178



MAT 7055 MT= 69 (n,n') Level Legendre Coefficients 70-Yb-178

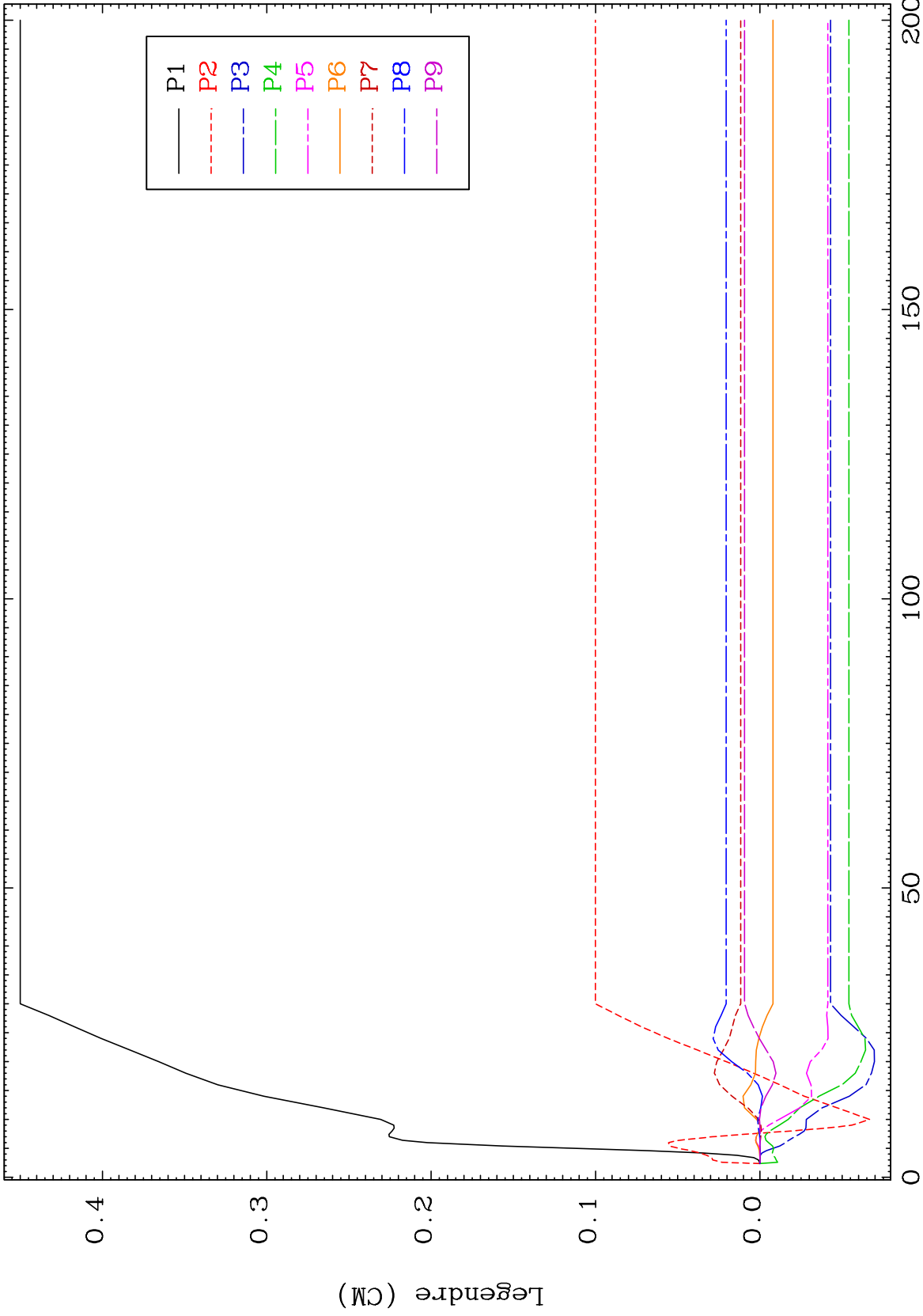


90 50 100 150 200 70-Yb-178

MAT 7055

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

70-Yb-178



91

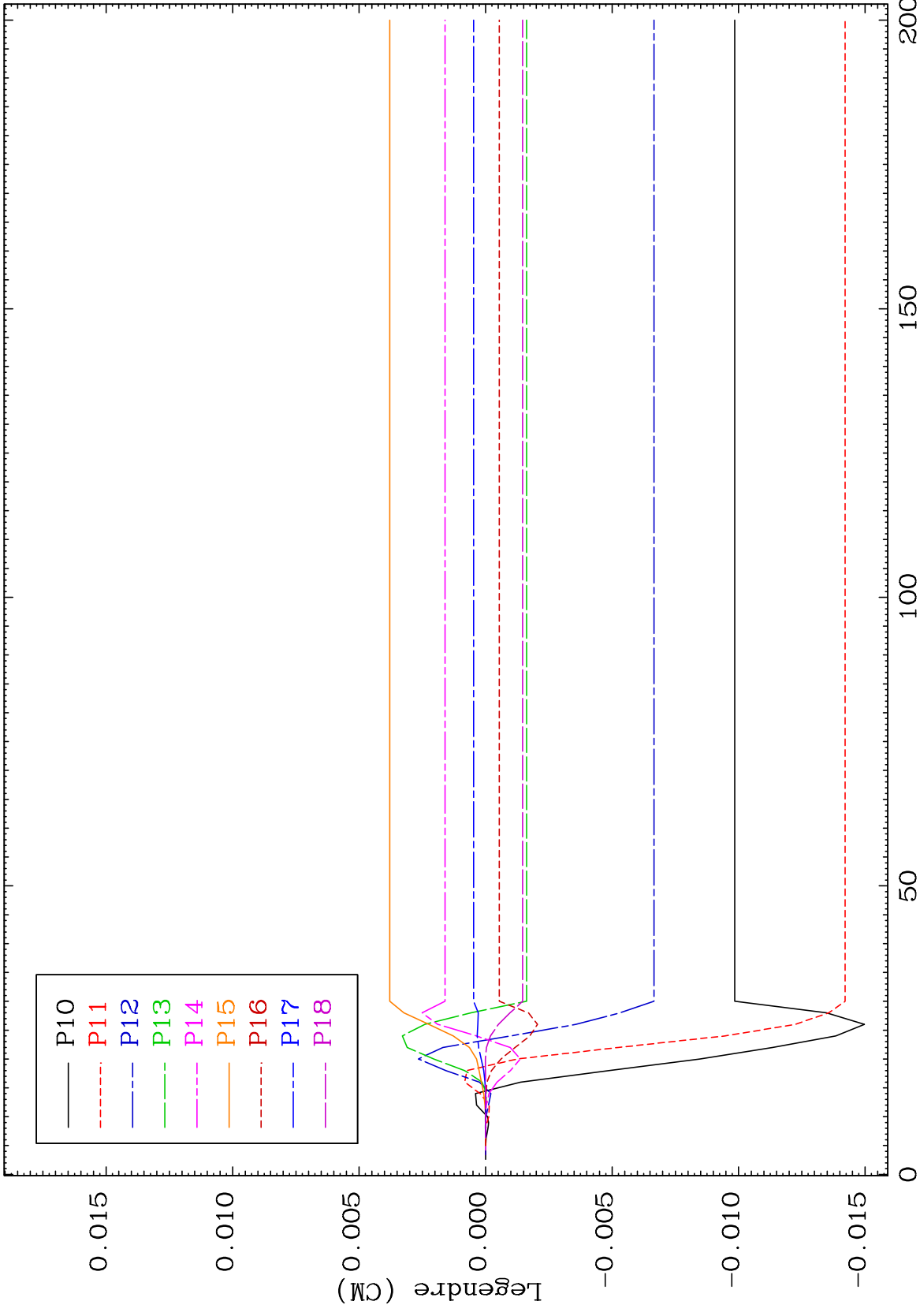
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

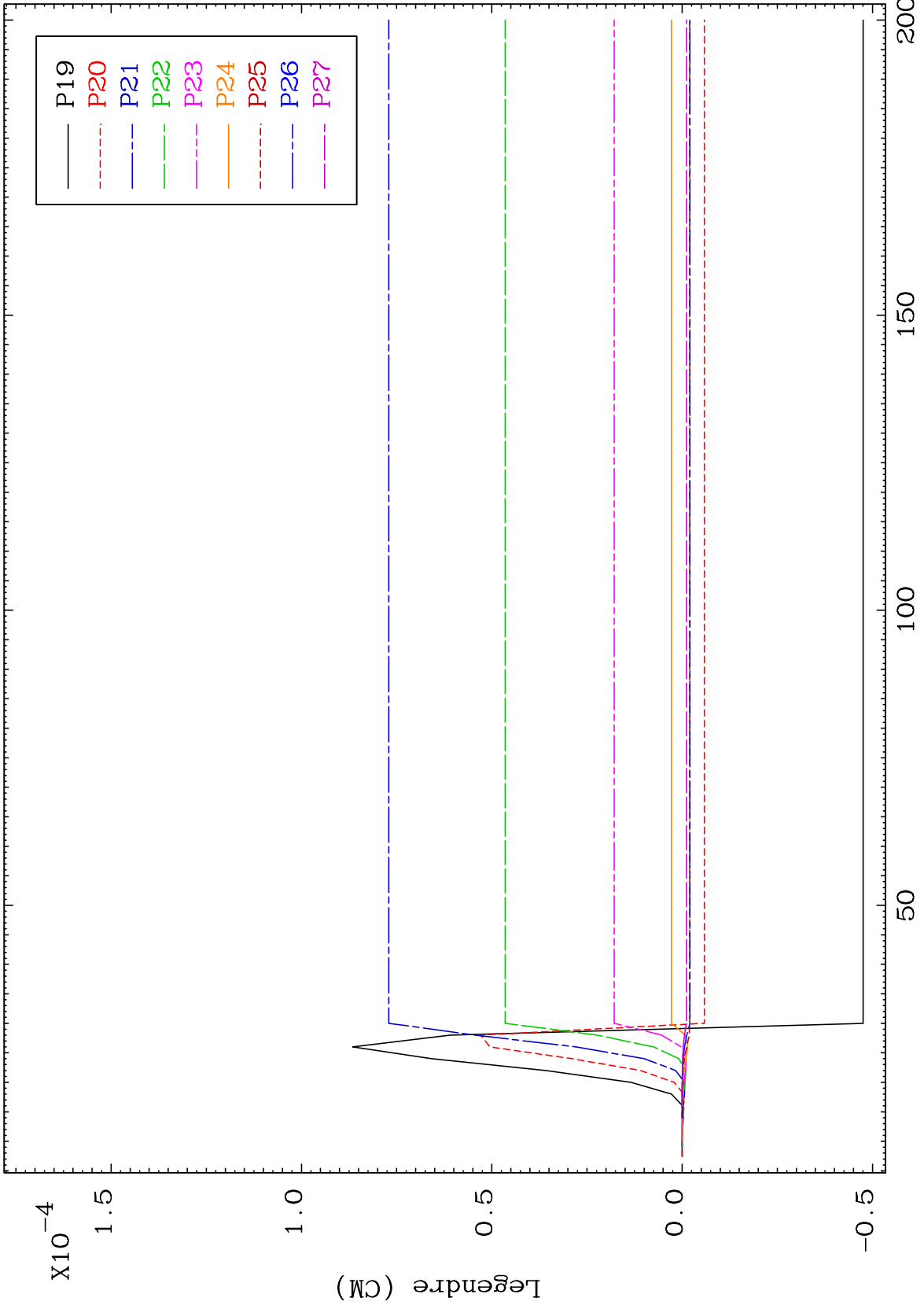
70-Yb-178



MAT 7055

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

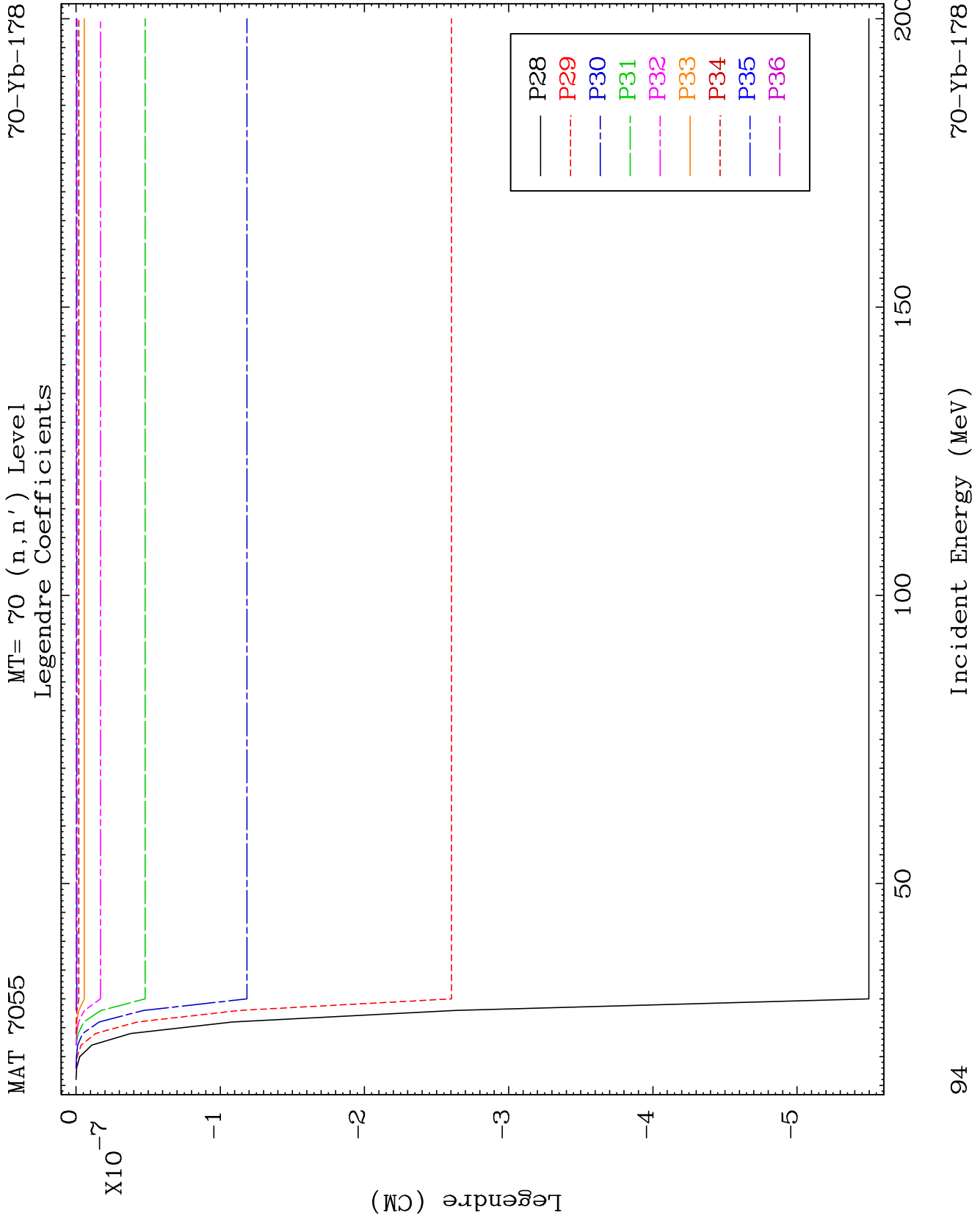
70-Yb-178



93

Incident Energy (MeV)

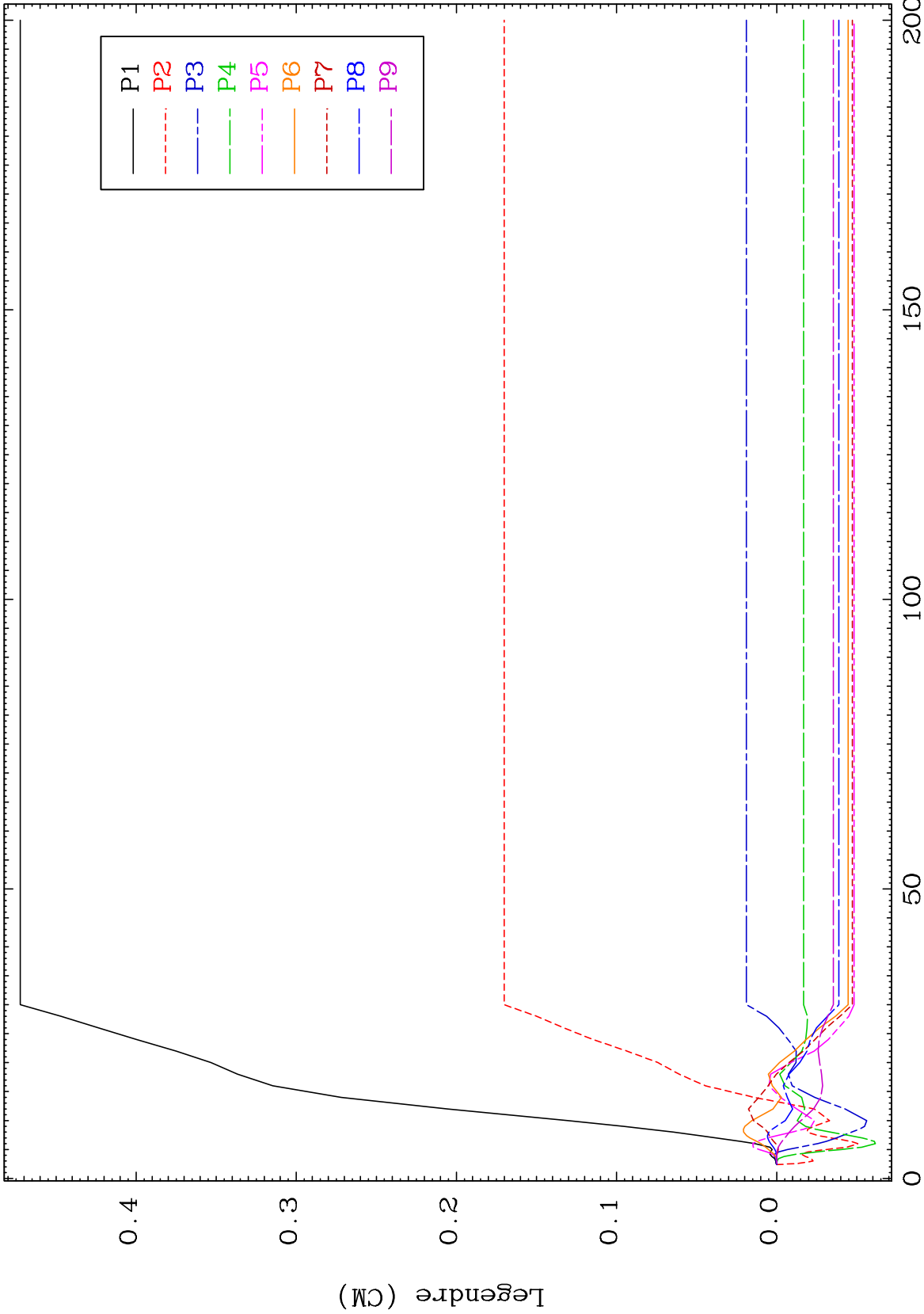
70-Yb-178



MAT 7055

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

70-Yb-178



95

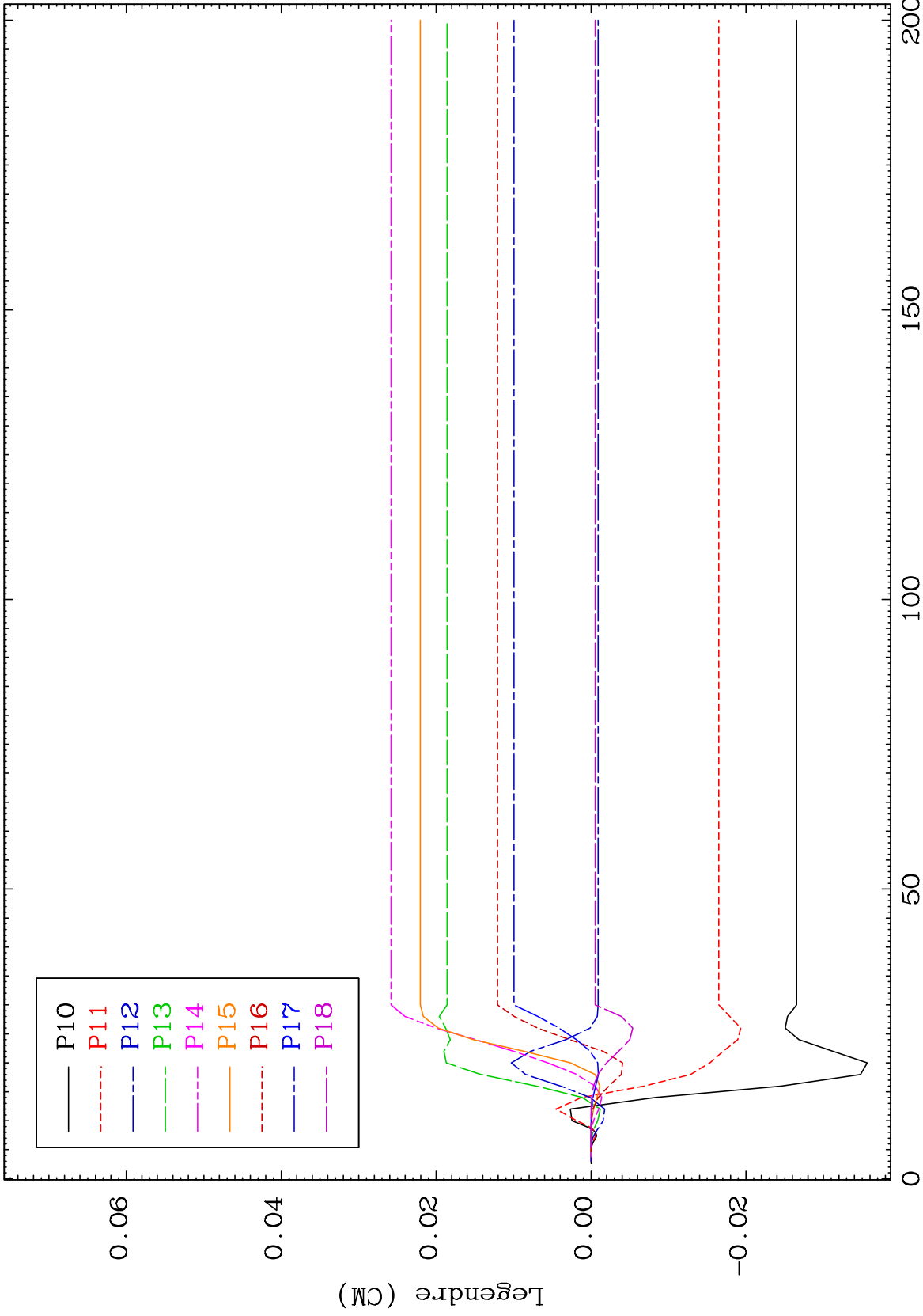
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



96

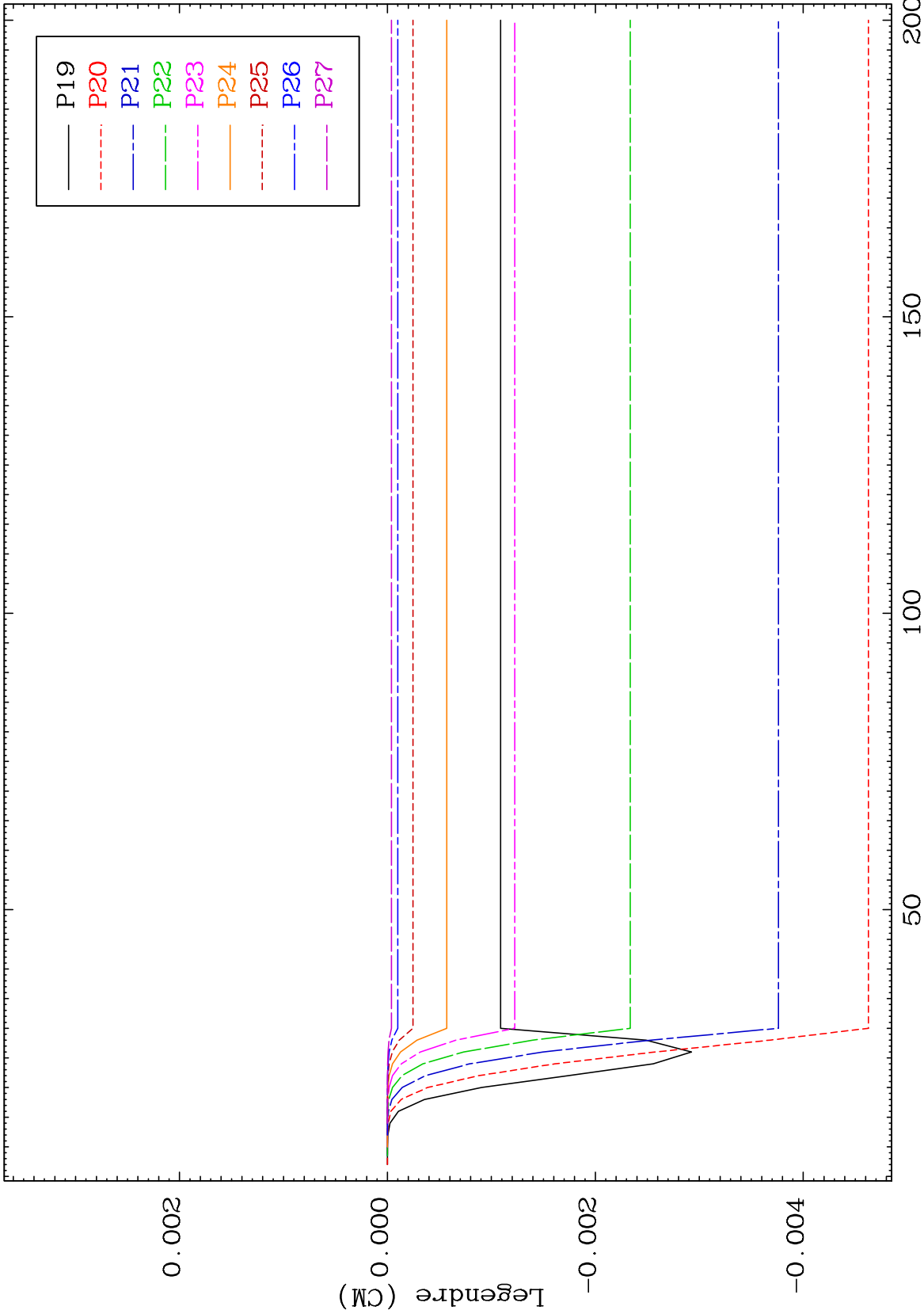
Incident Energy (MeV)

70-Yb-178

MAT 7055

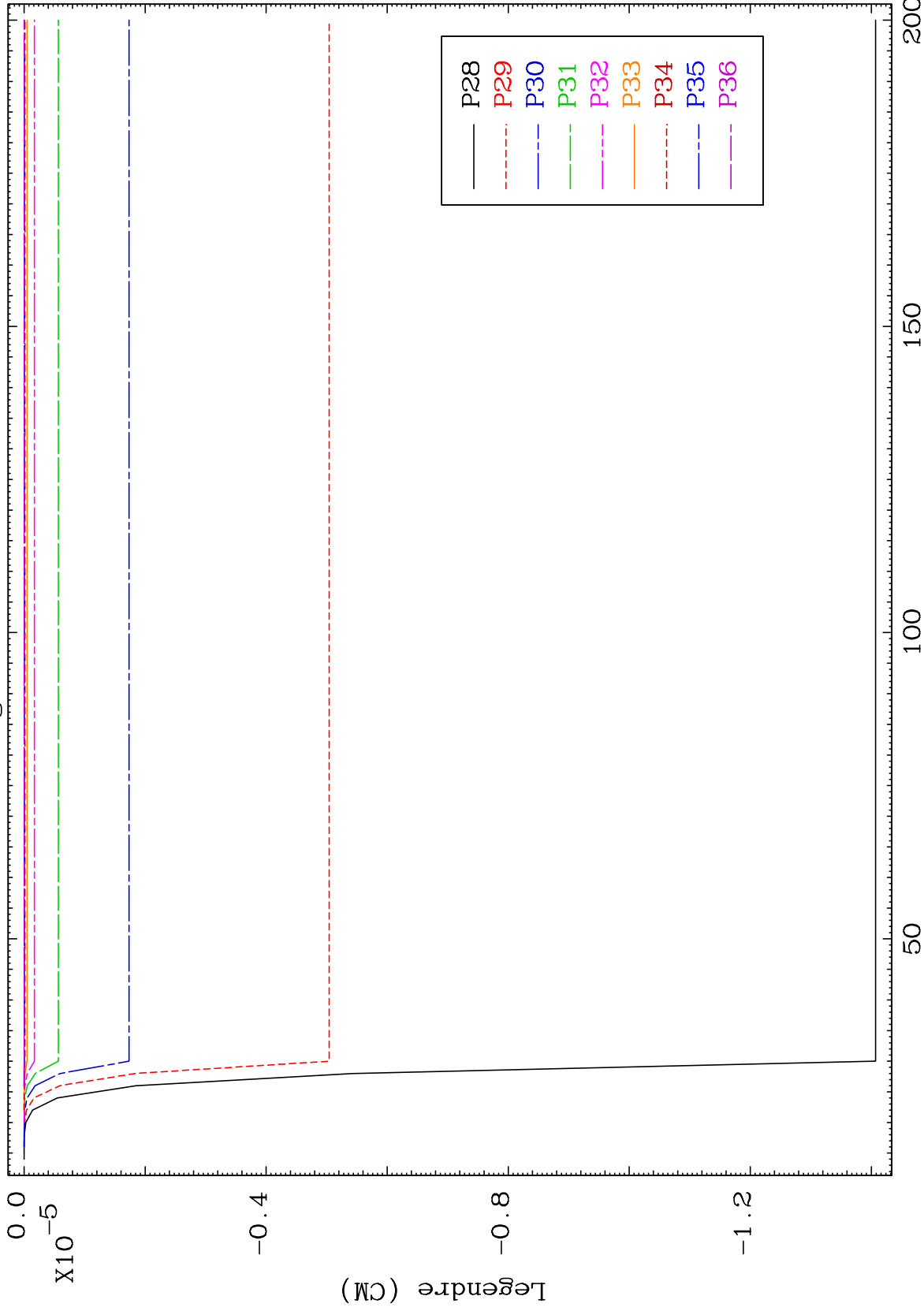
MT= 71 (n,n') Level
Legendre Coefficients

70-Yb-178



MAT 7055 MT= 71 (n,n') Level 70-Yb-178

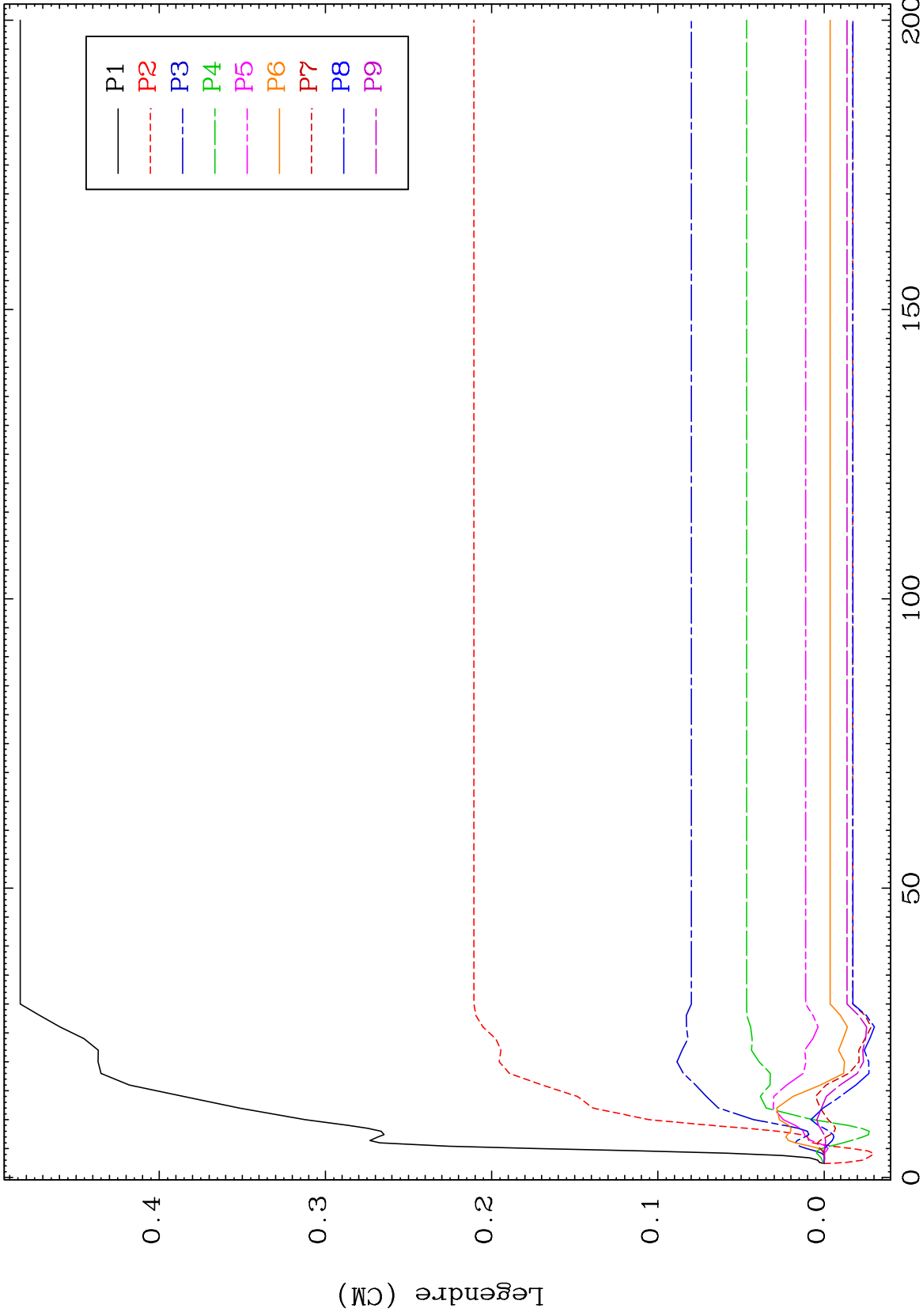
Legendre Coefficients



MAT 7055

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

70-Yb-178



99

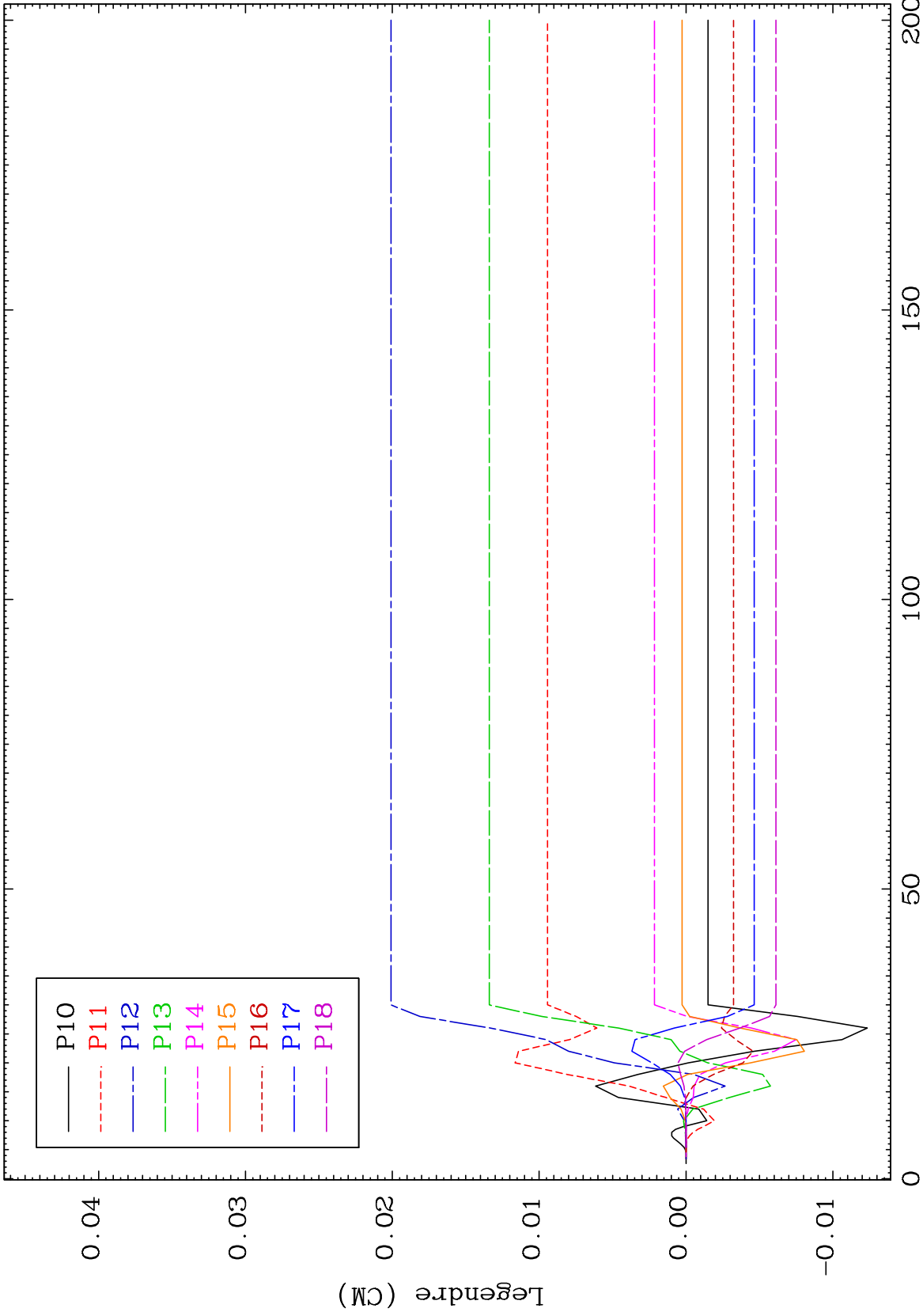
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



70-Yb-178

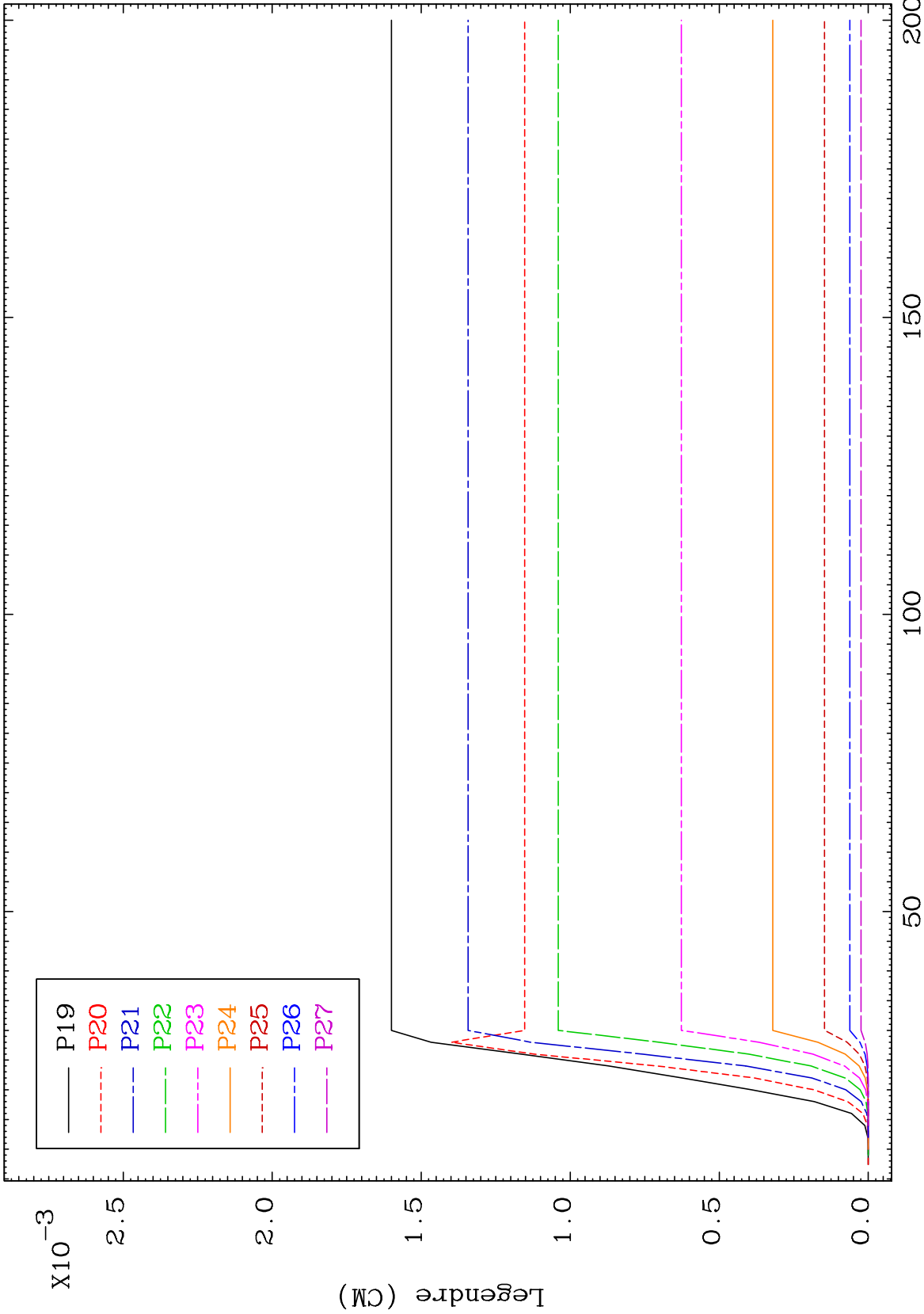
Incident Energy (MeV)

100

MAT 7055

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

70-Yb-178



101

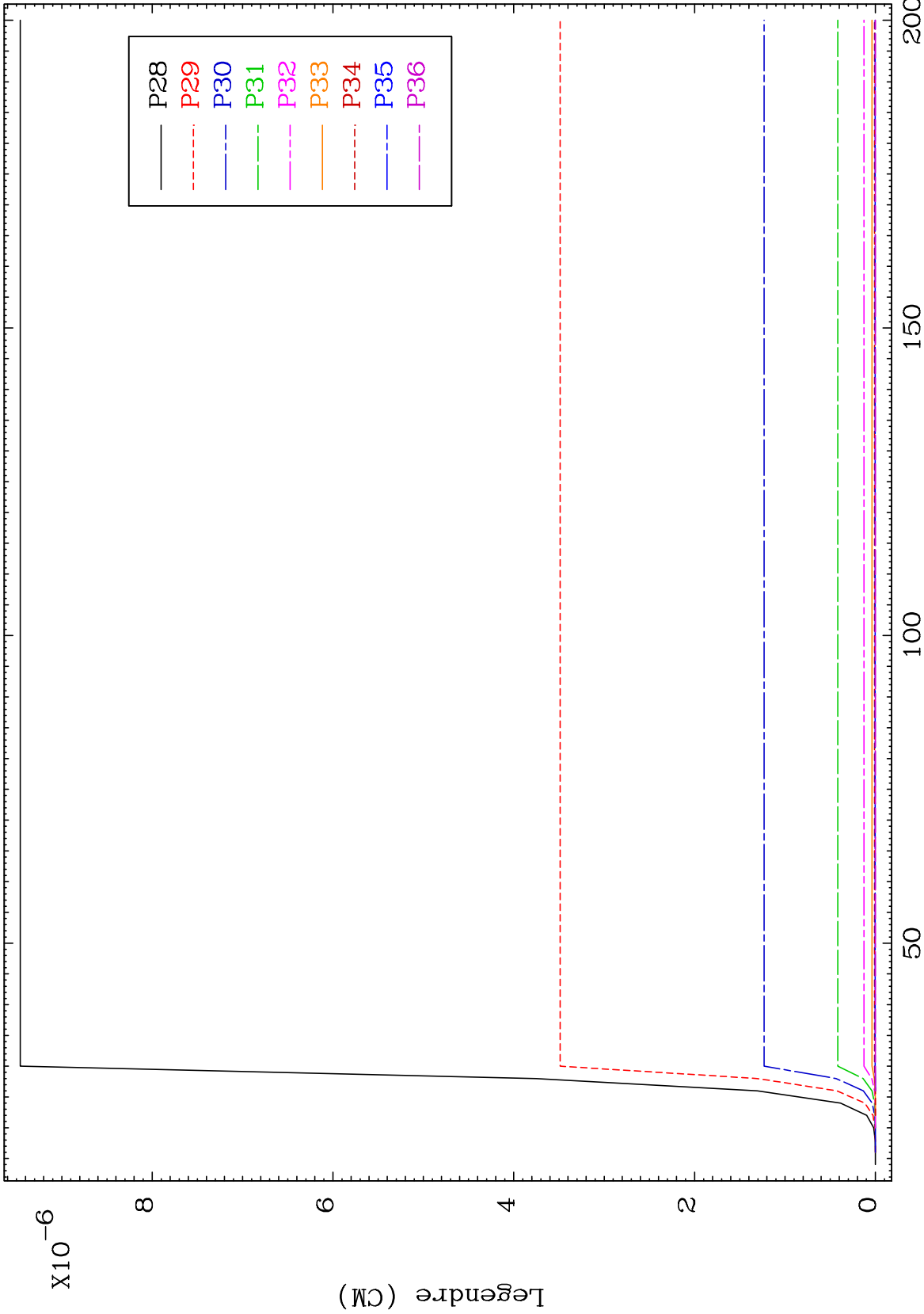
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



102

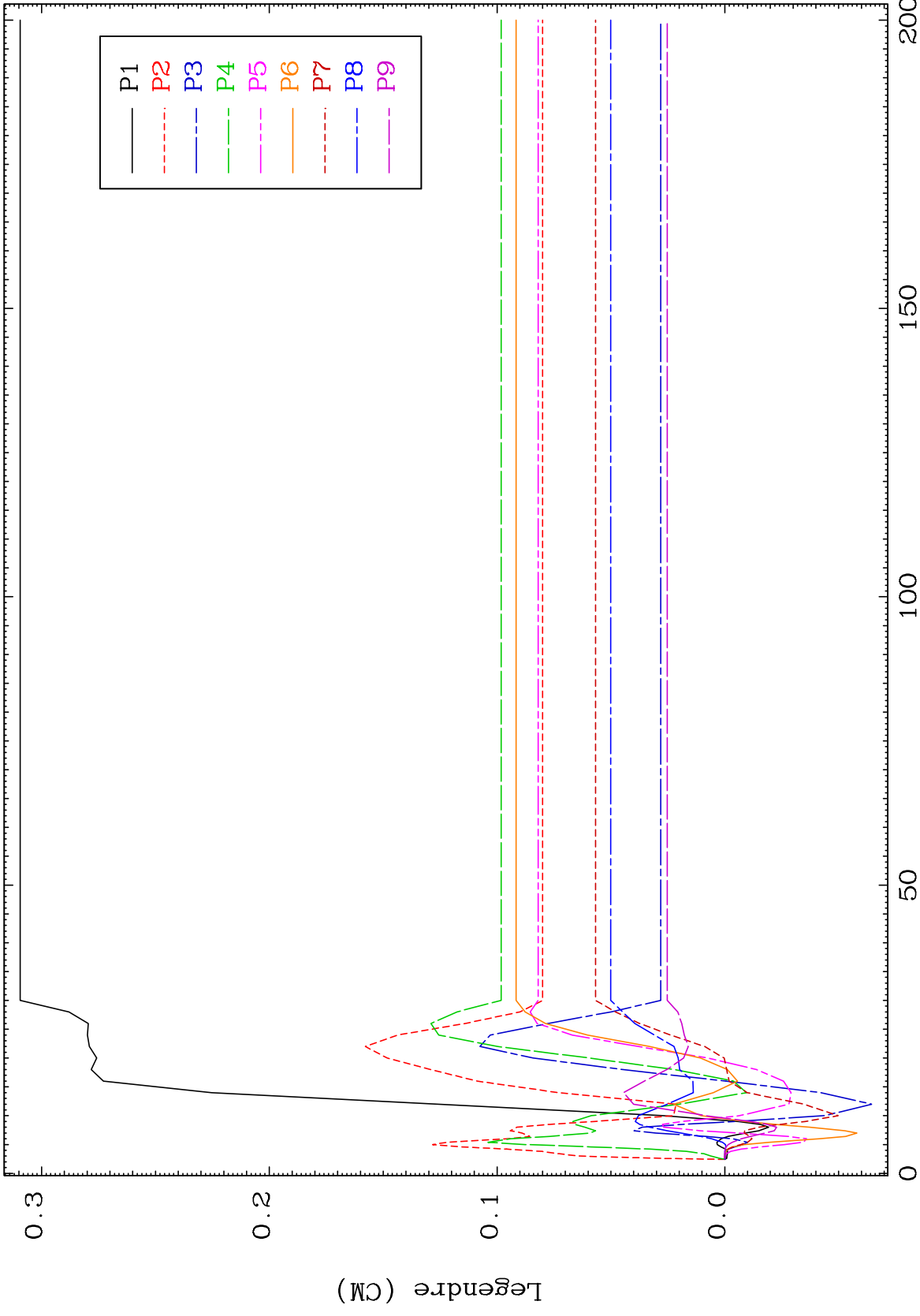
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



70-Yb-178

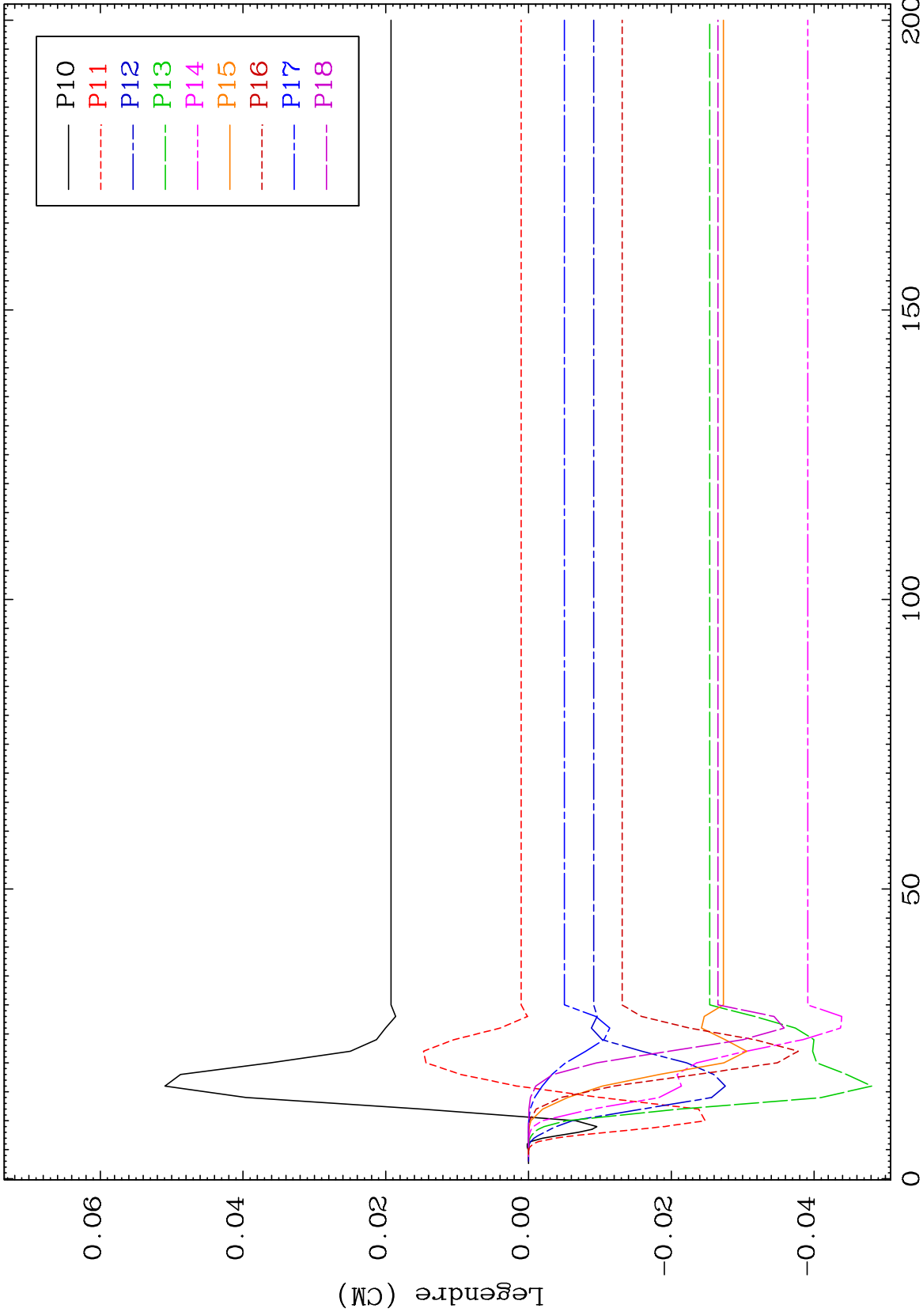
Incident Energy (MeV)

103

MAT 7055

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

70-Yb-178



104

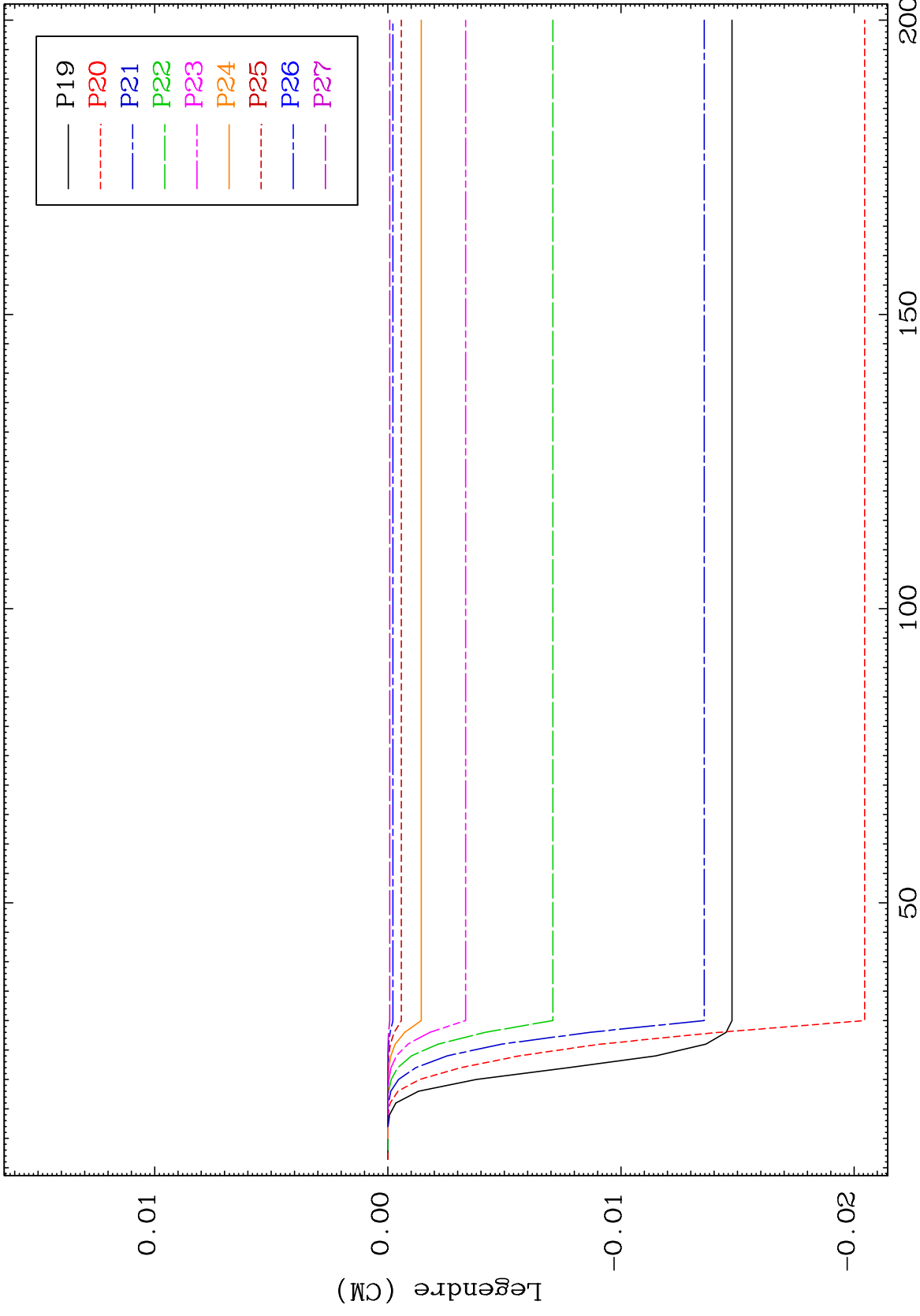
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178

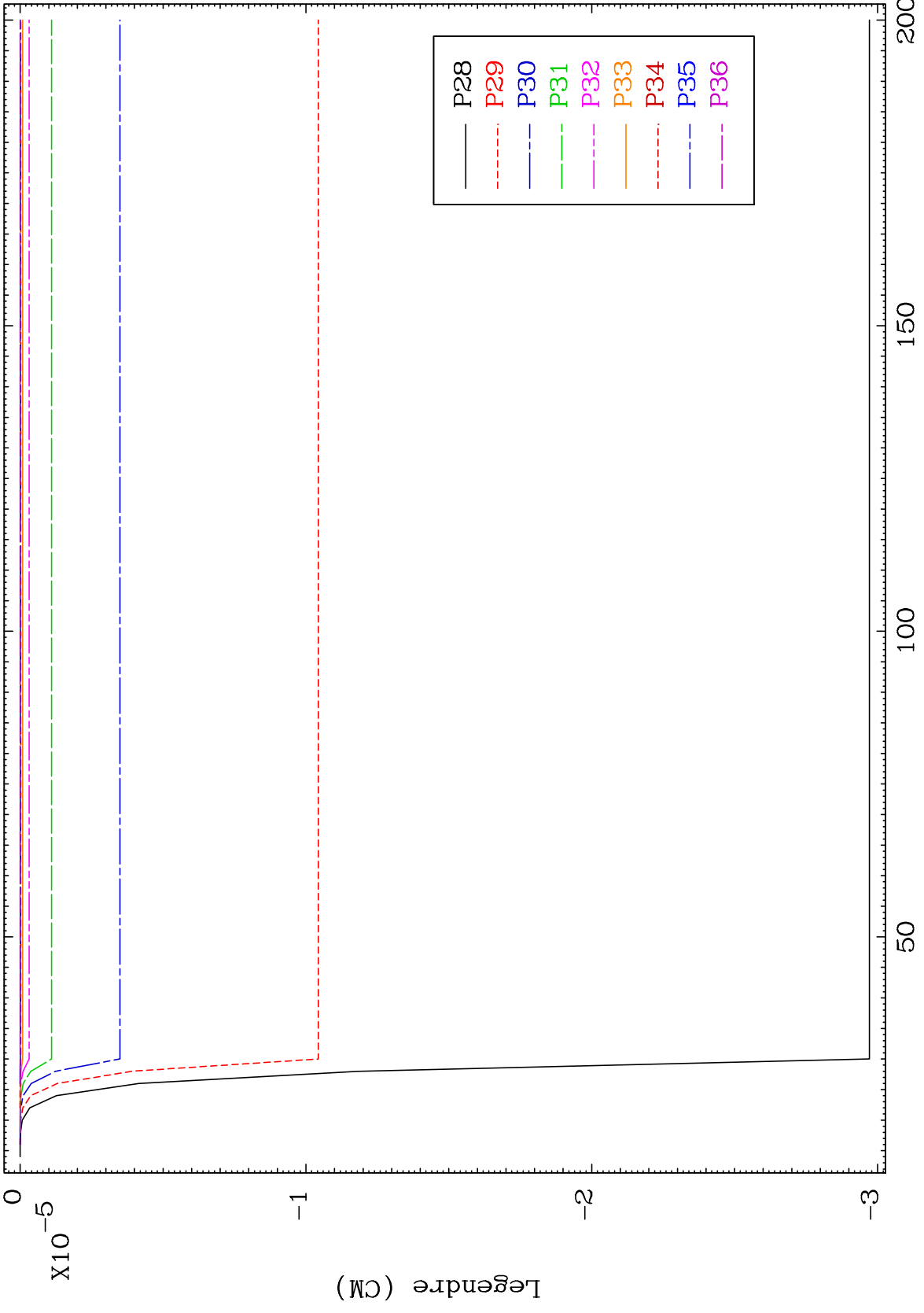


105

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 73 (n,n') Level Legendre Coefficients 70-Yb-178

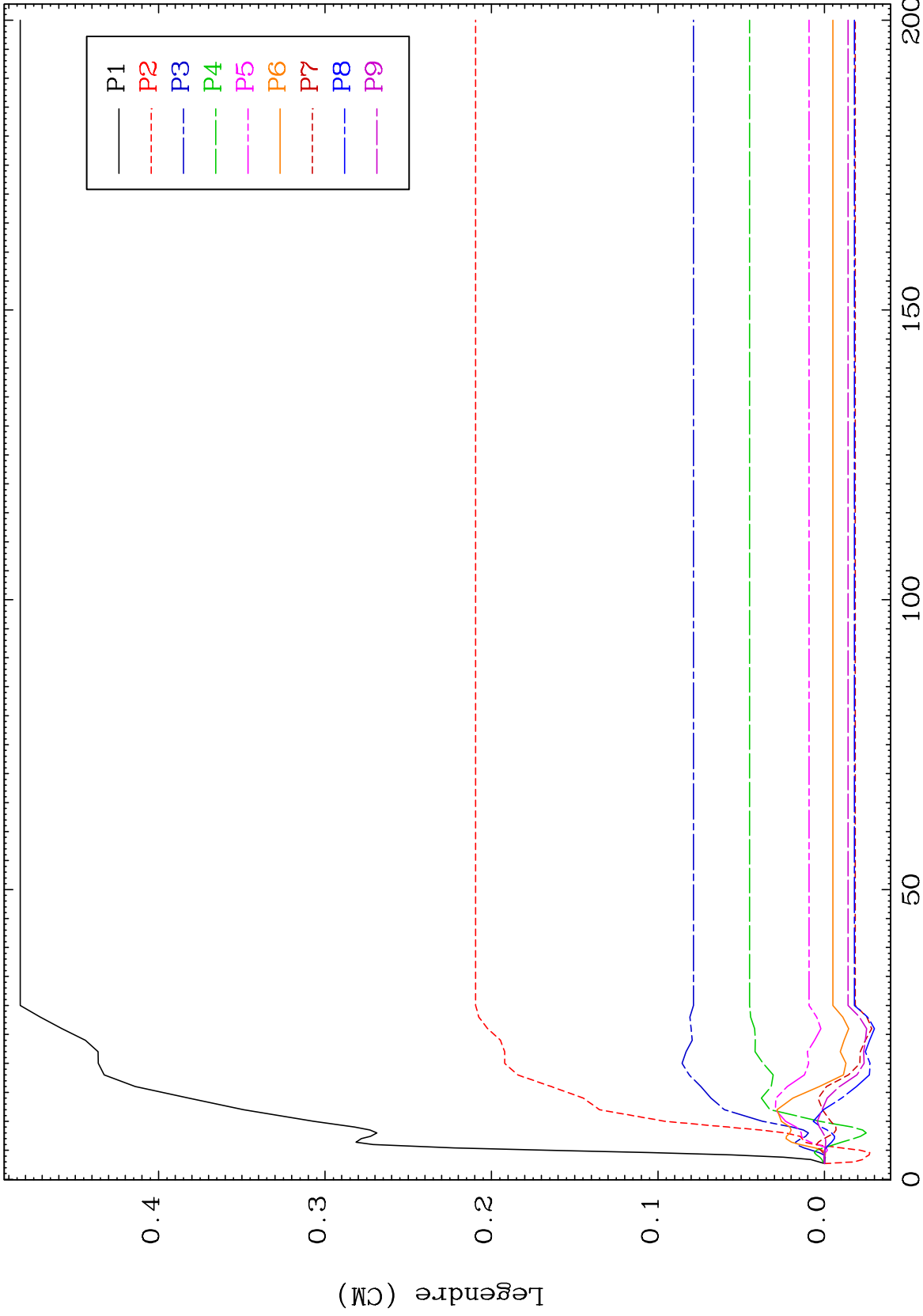


106 70-Yb-178

MAT 7055

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

70-Yb-178



107

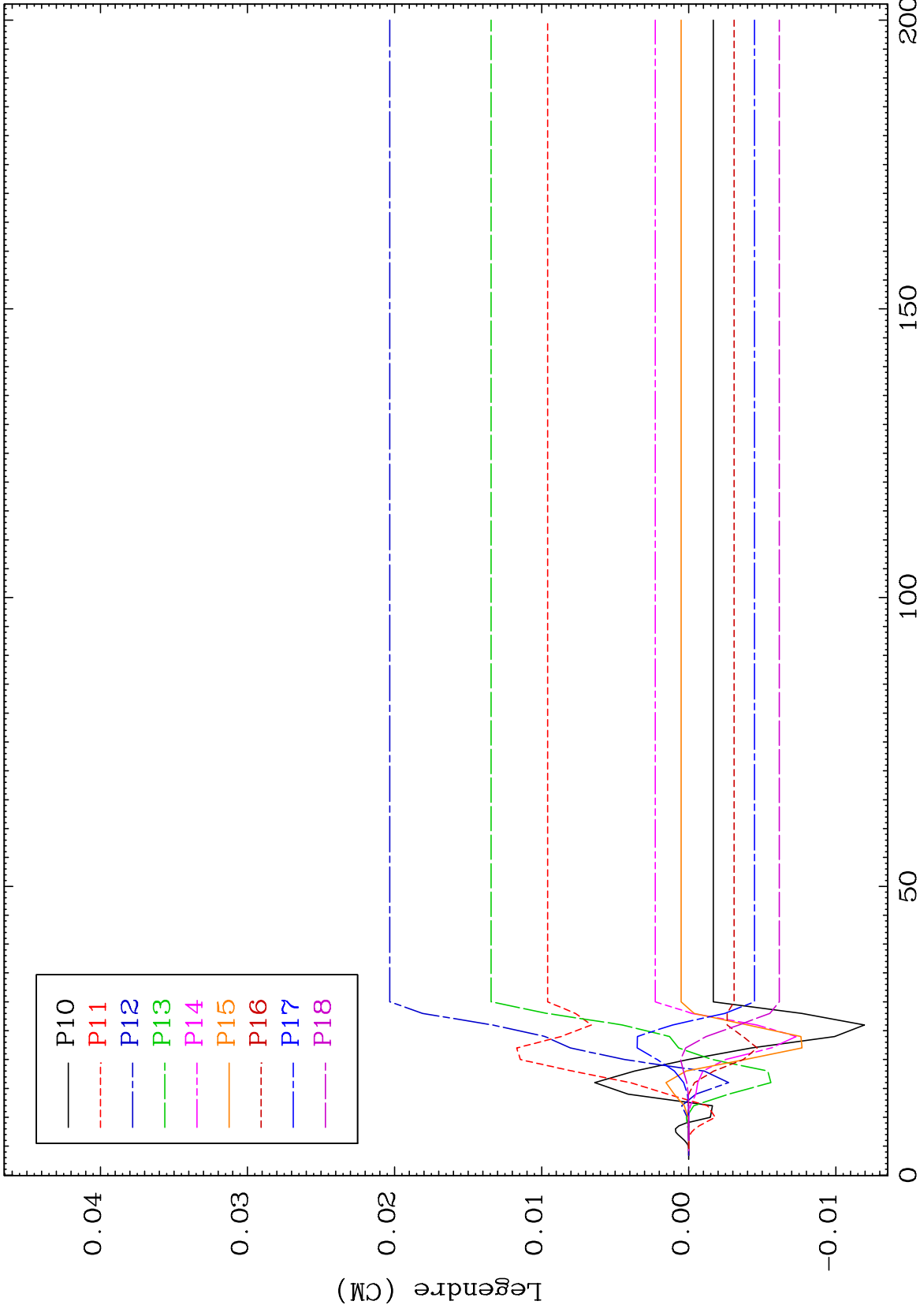
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



108

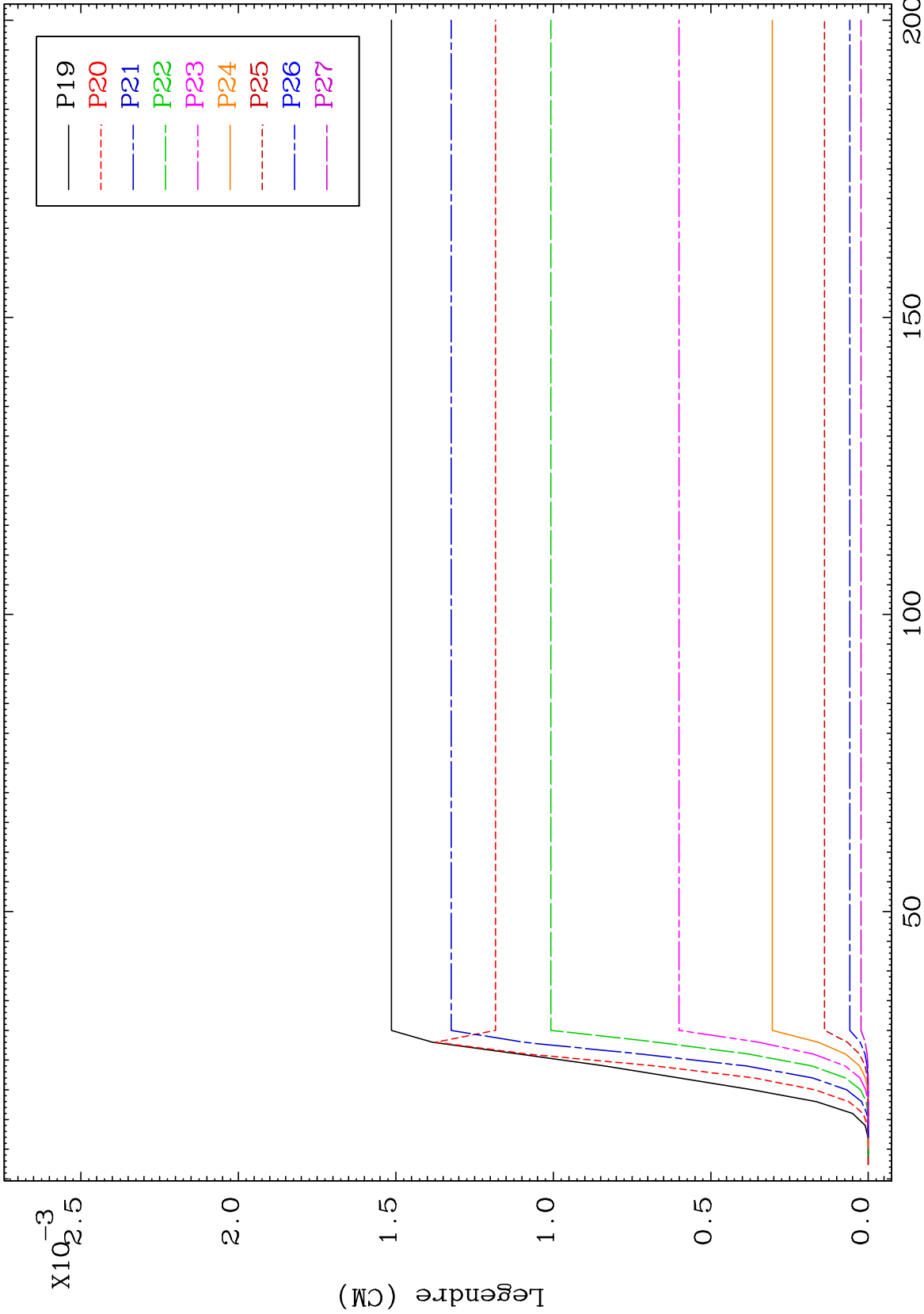
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



109

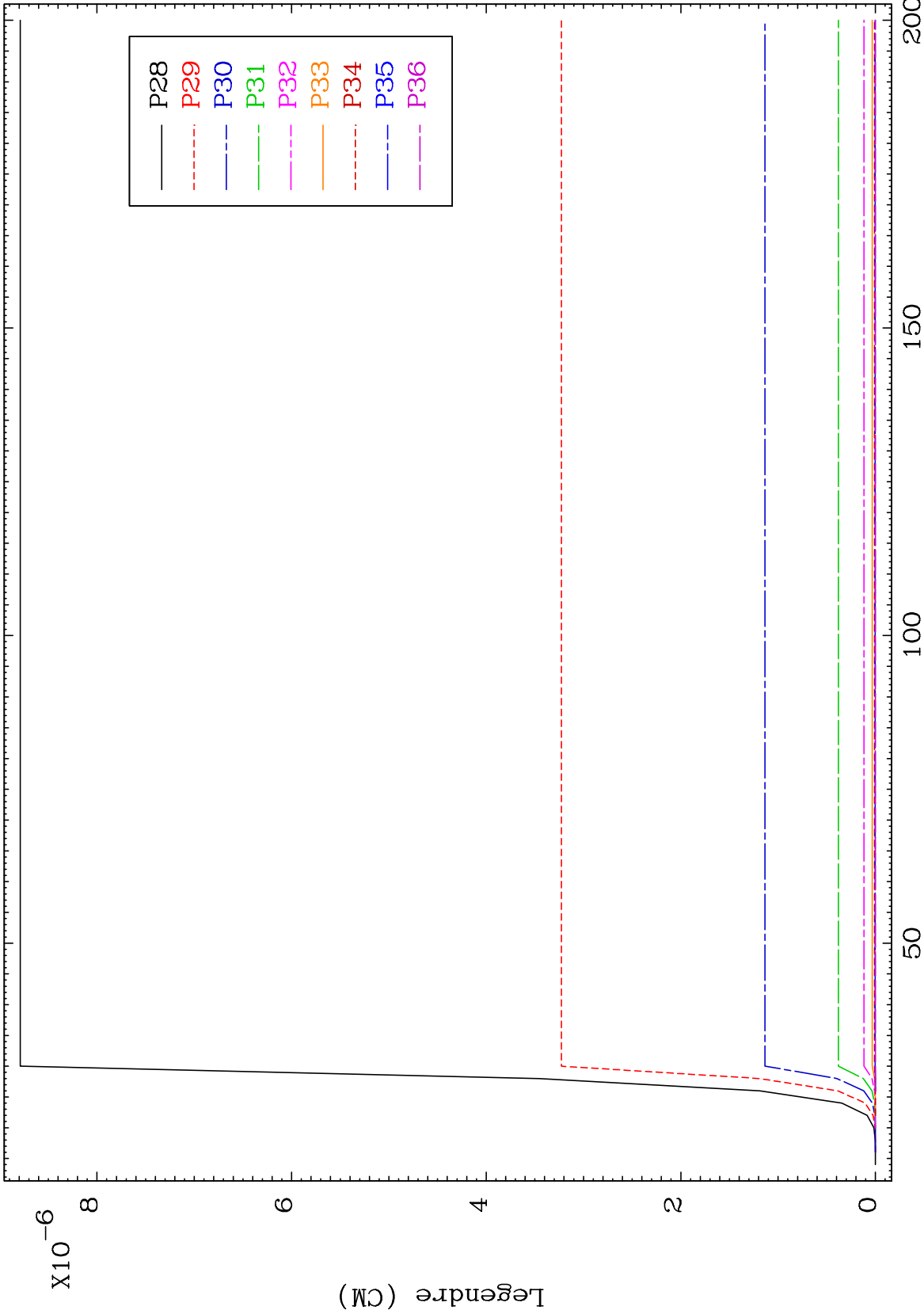
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

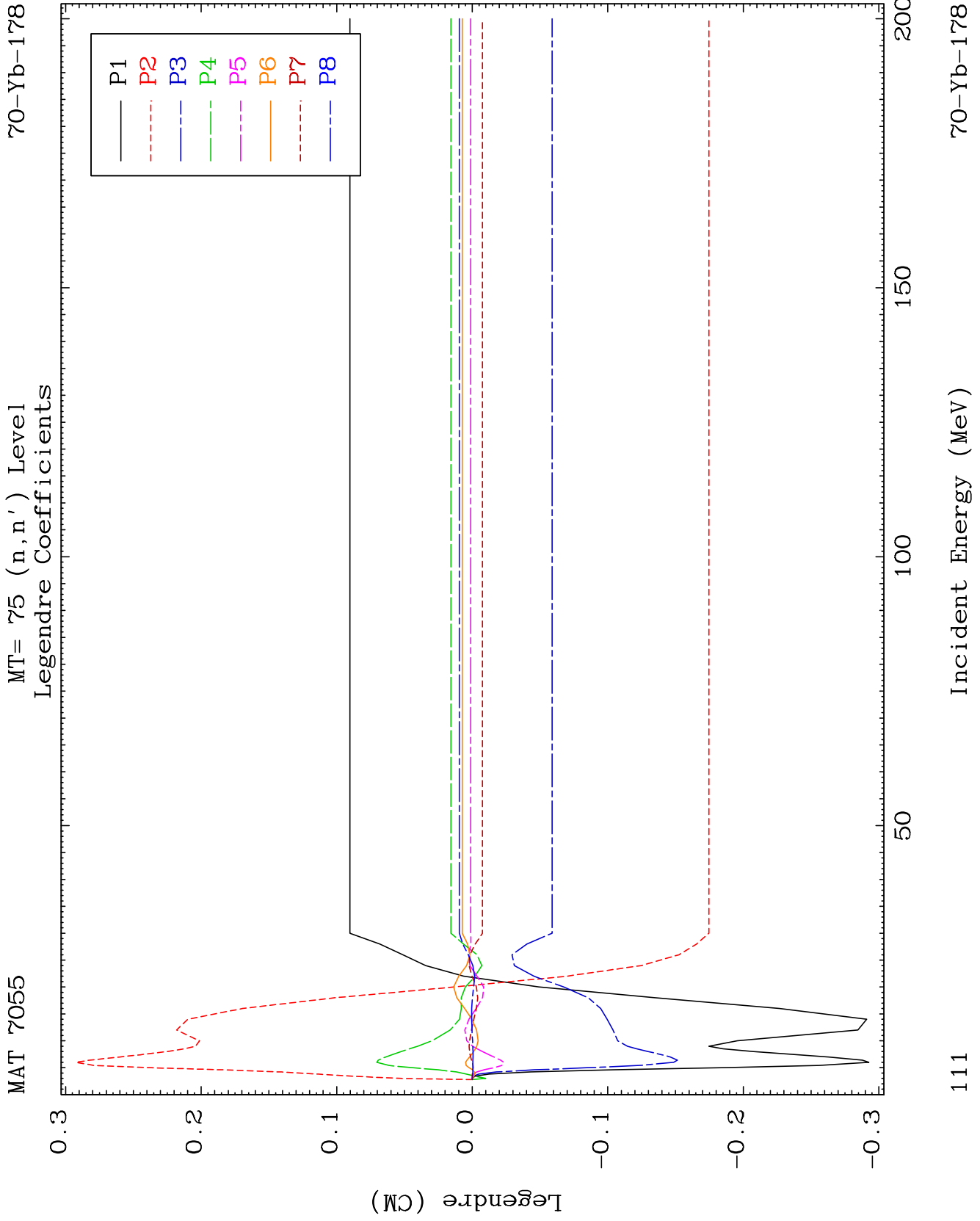
70-Yb-178



110

Incident Energy (MeV)

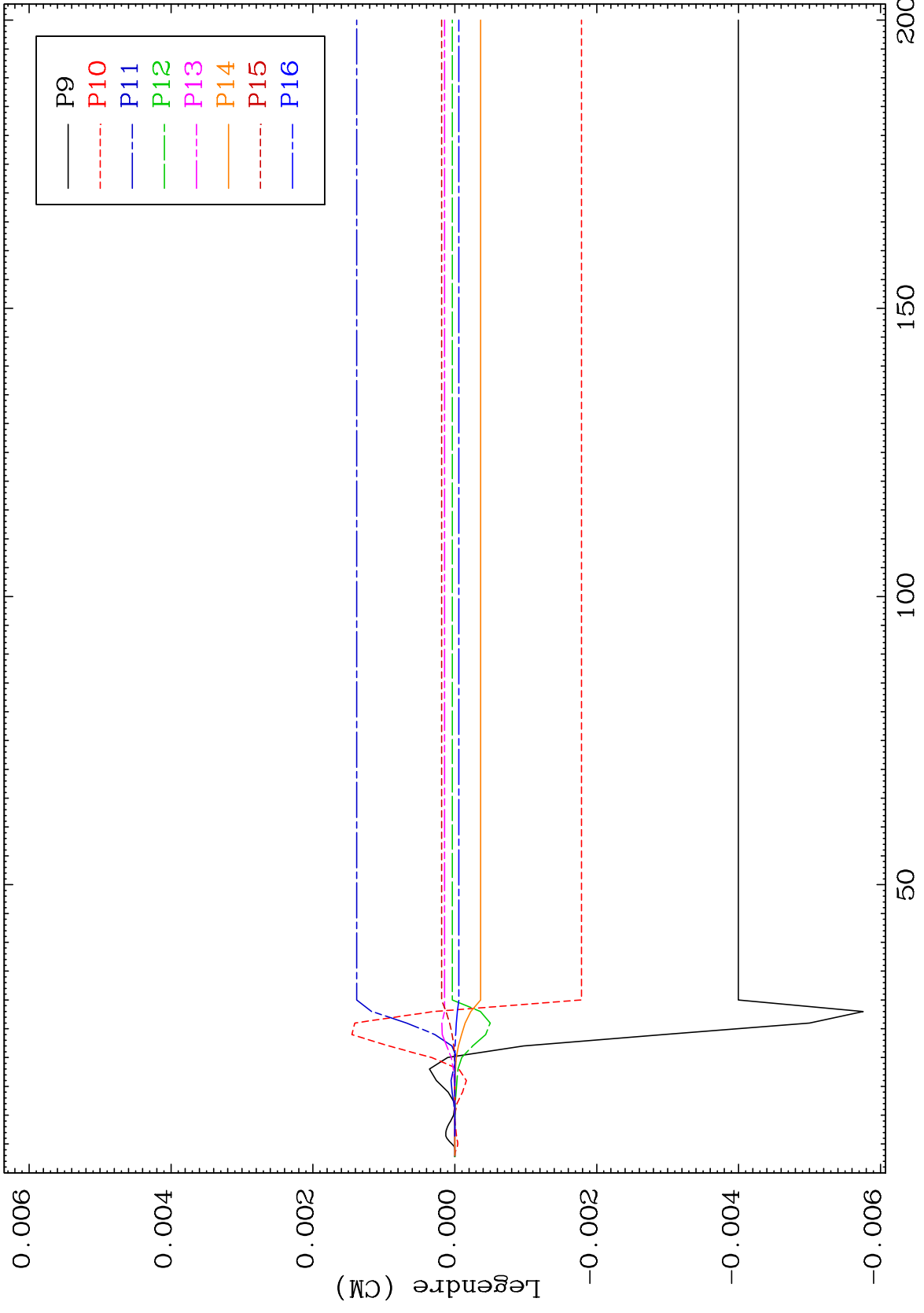
70-Yb-178



MAT 7055

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

70-Yb-178



112

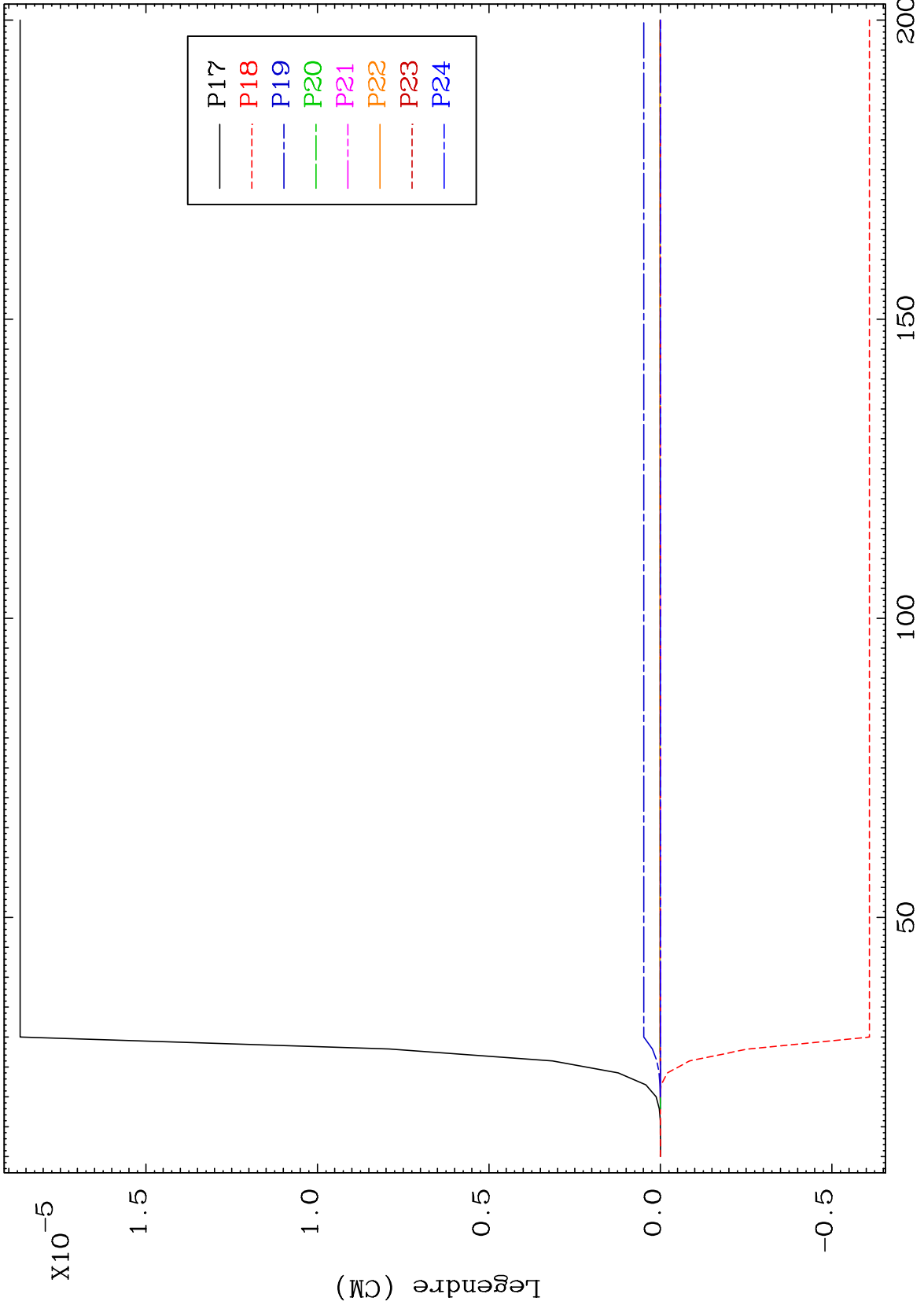
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



113

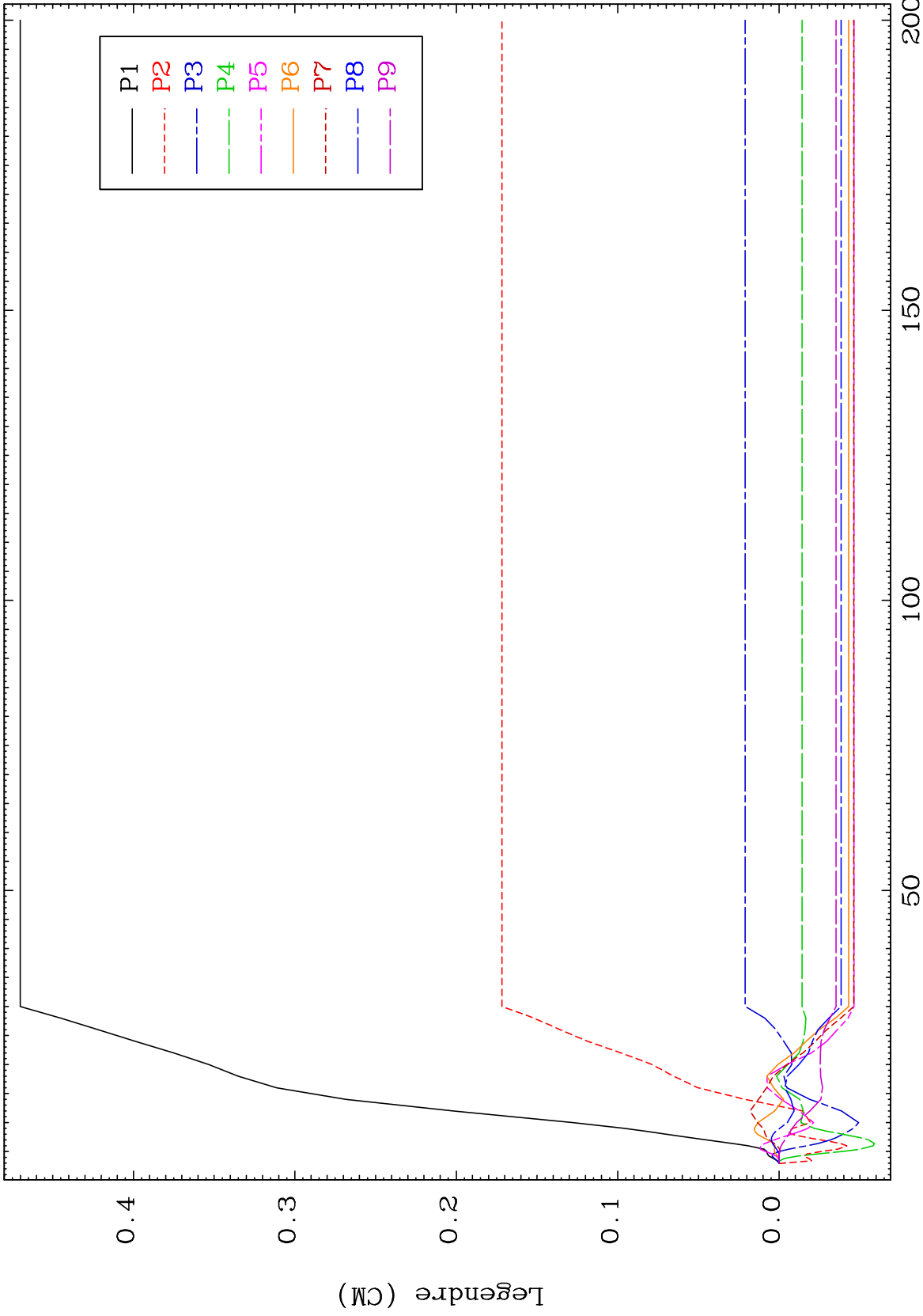
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



114

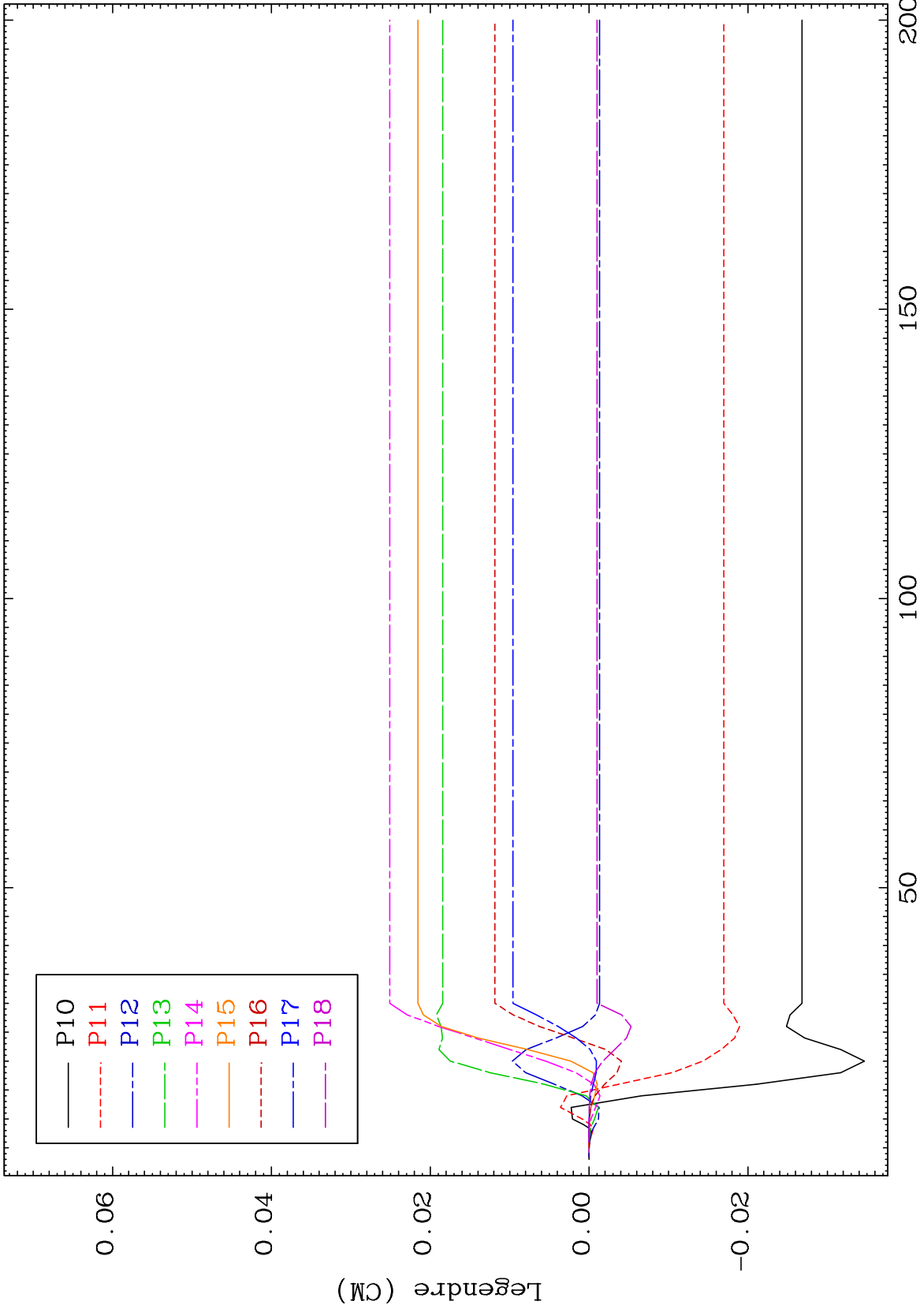
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



115

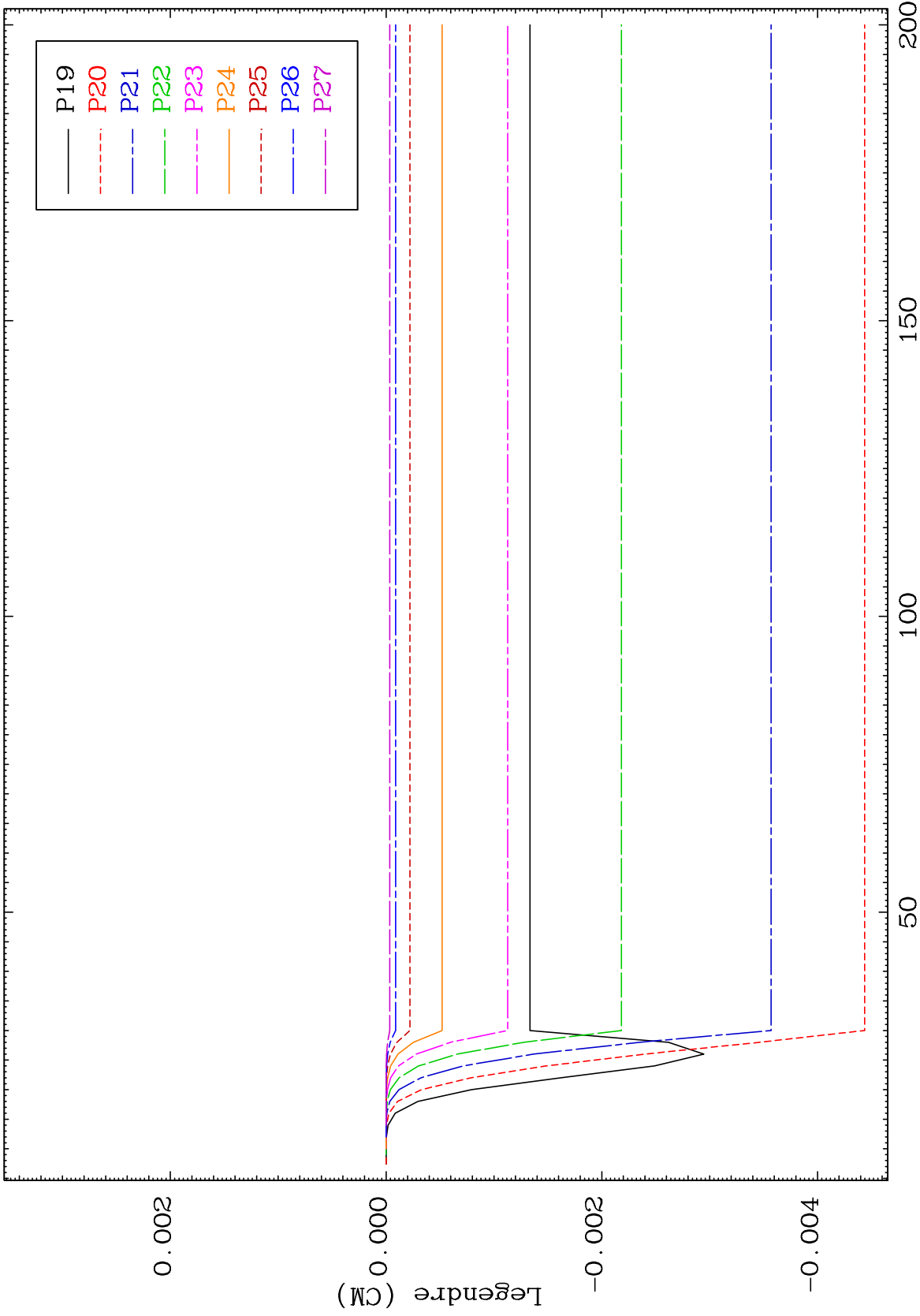
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178

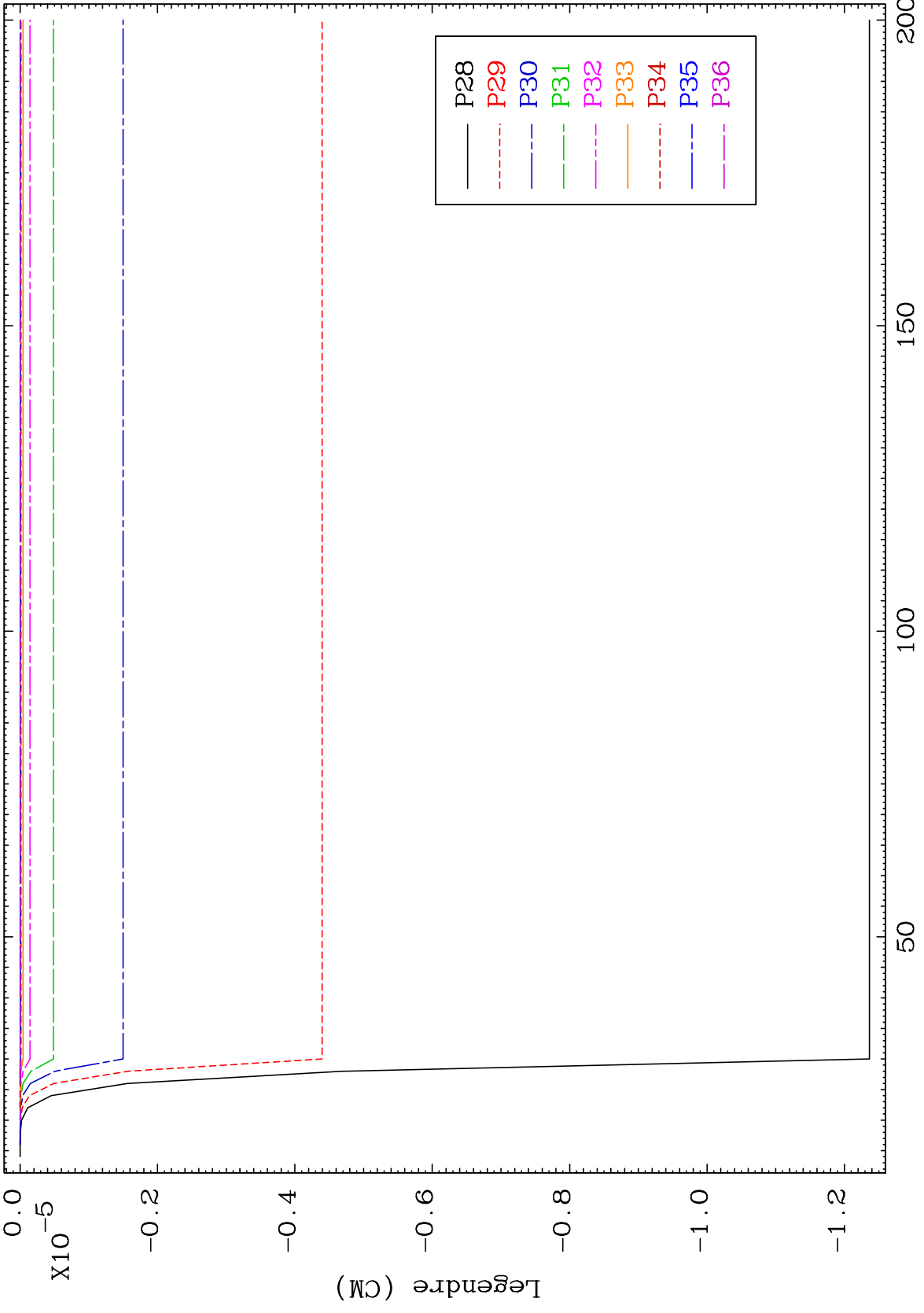


116

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 76 (n,n') Level Legendre Coefficients 70-Yb-178

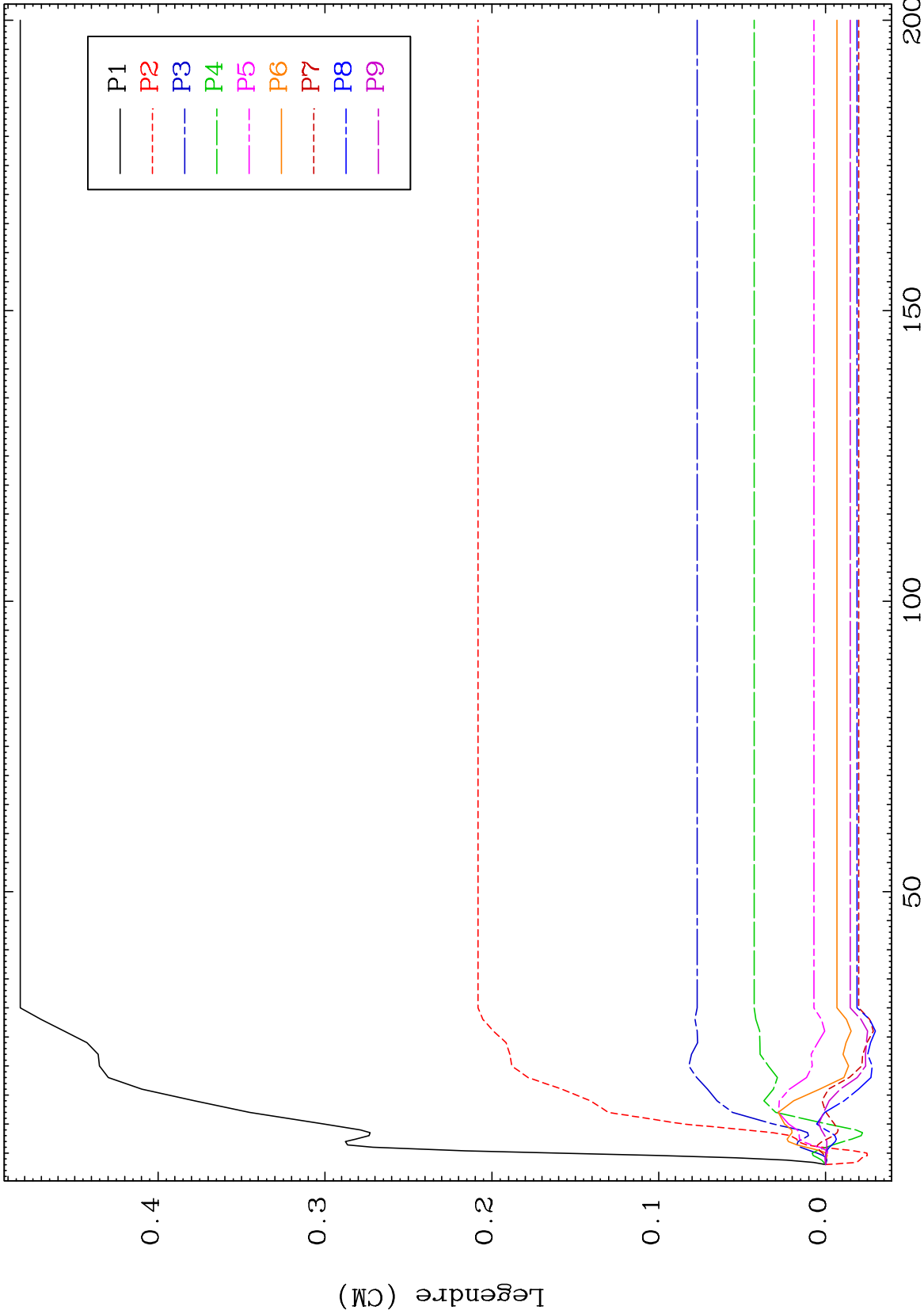


117 70-Yb-178

MAT 7055

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

70-Yb-178



118

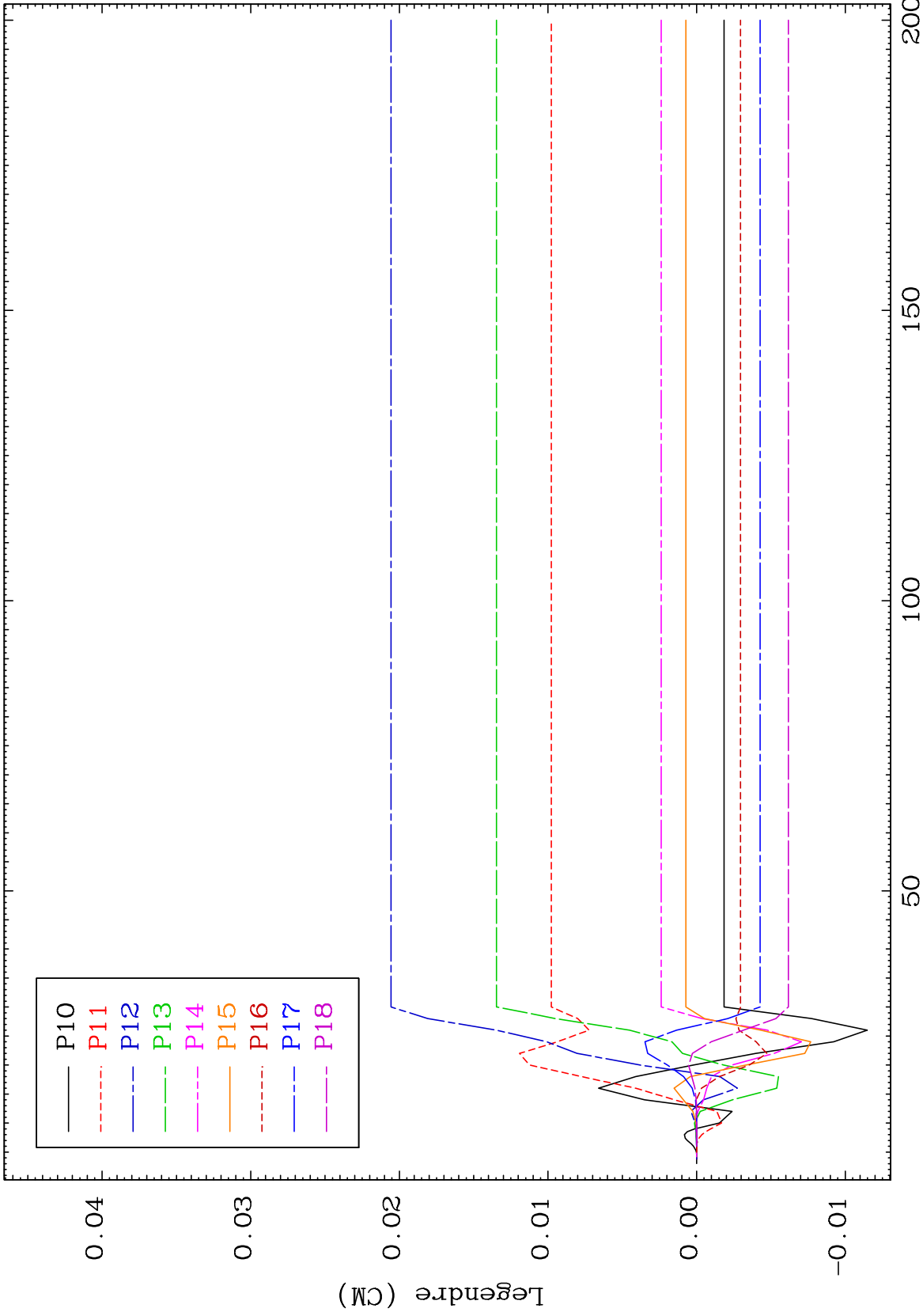
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



119

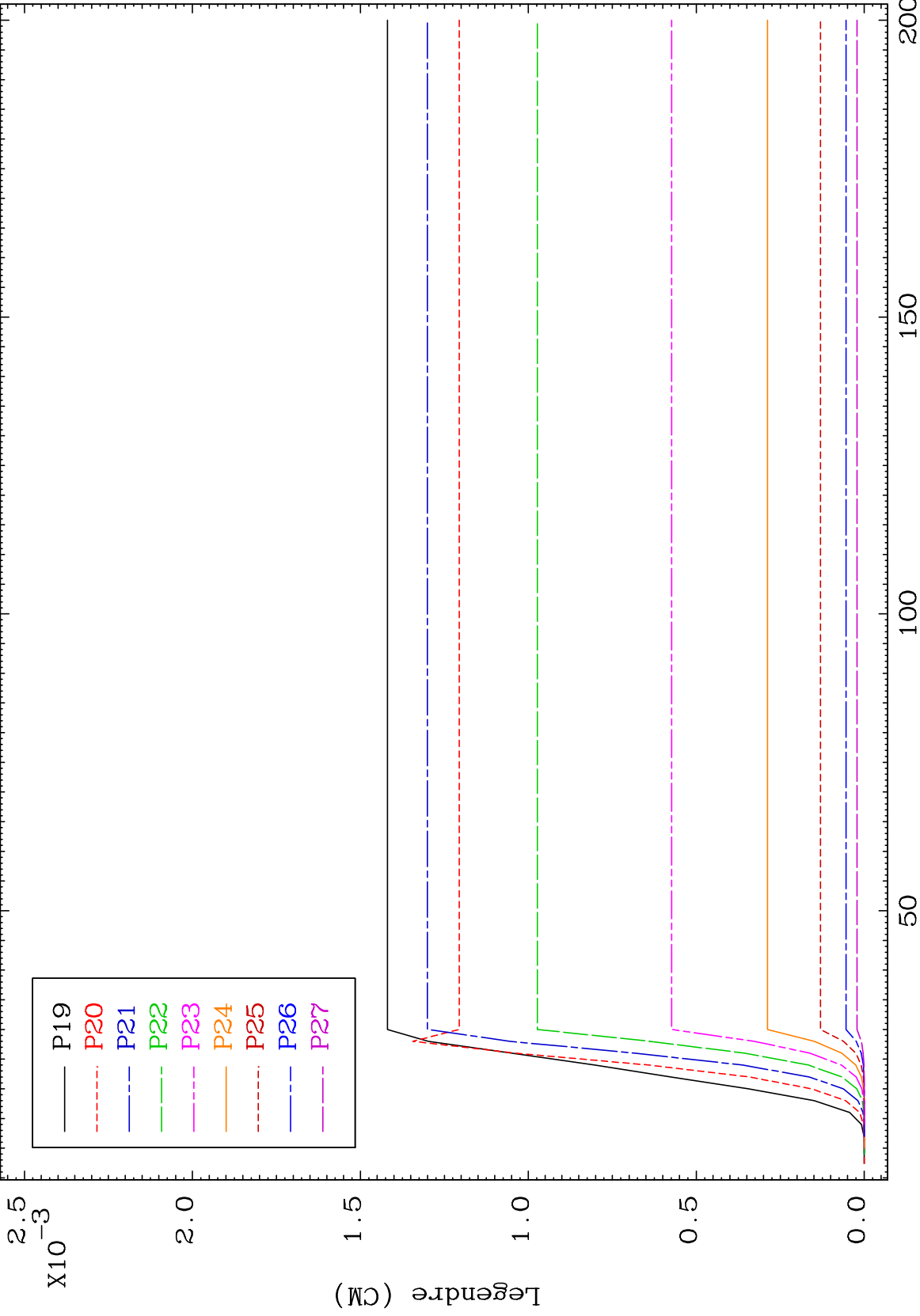
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



120

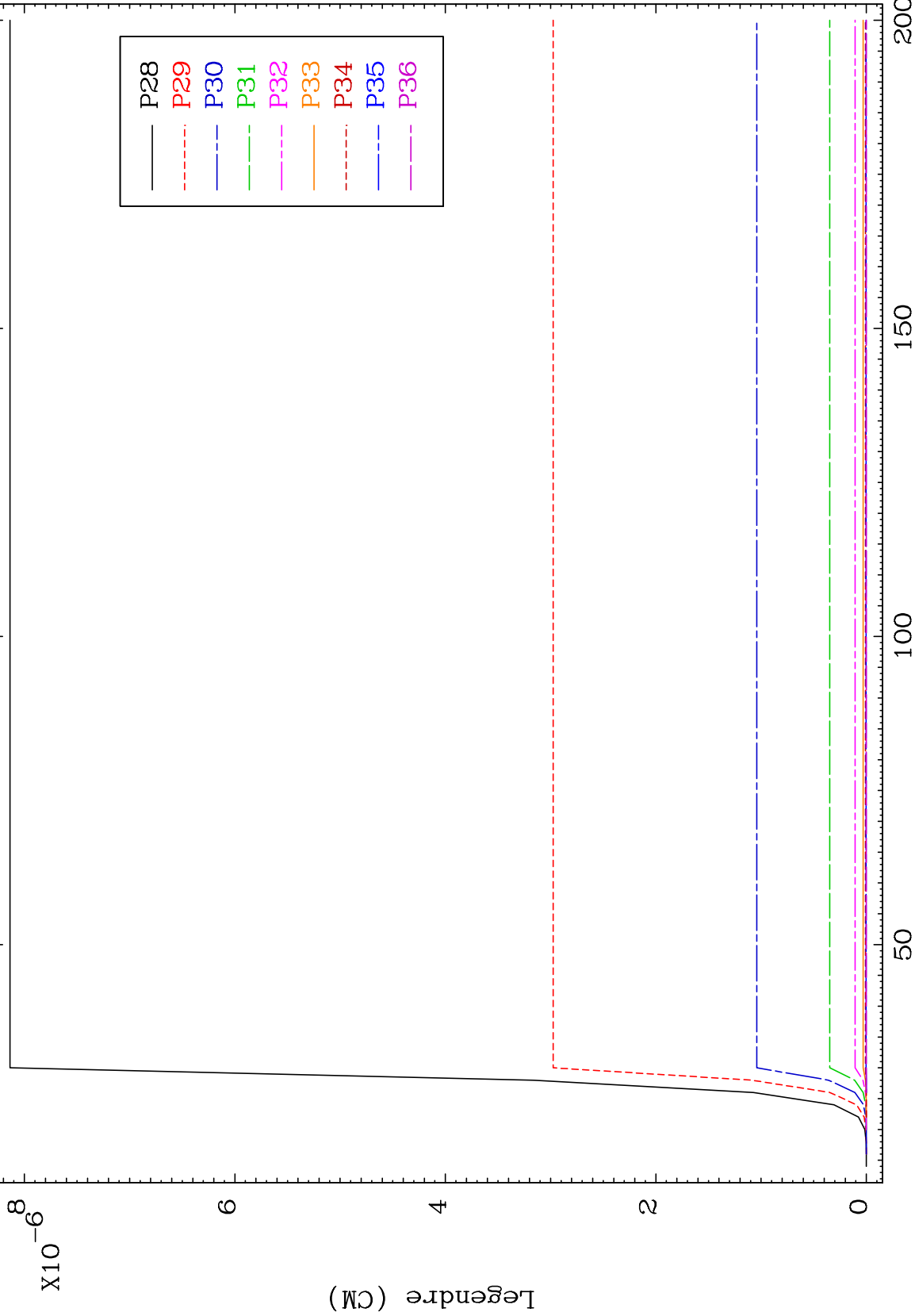
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



121

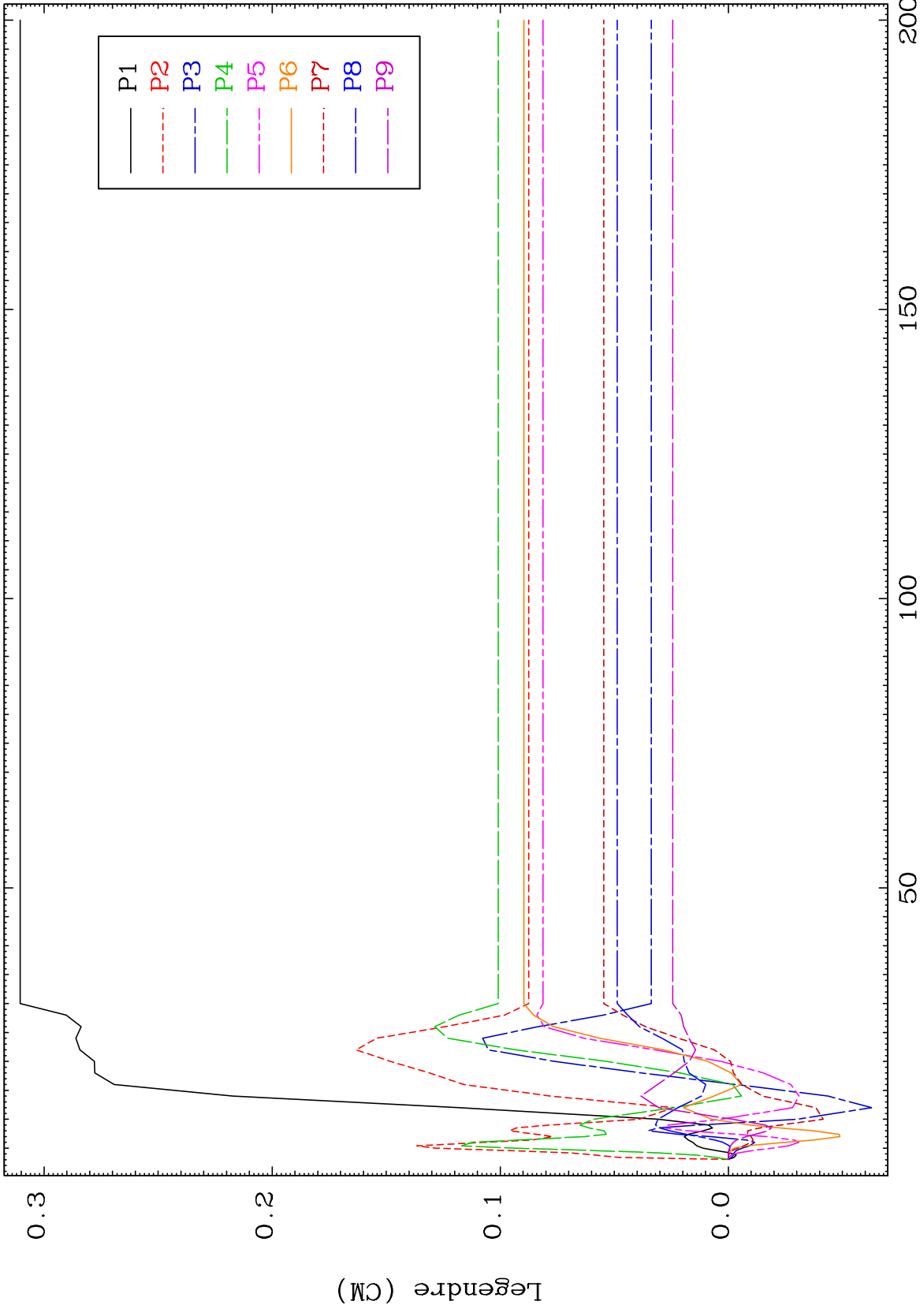
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



122

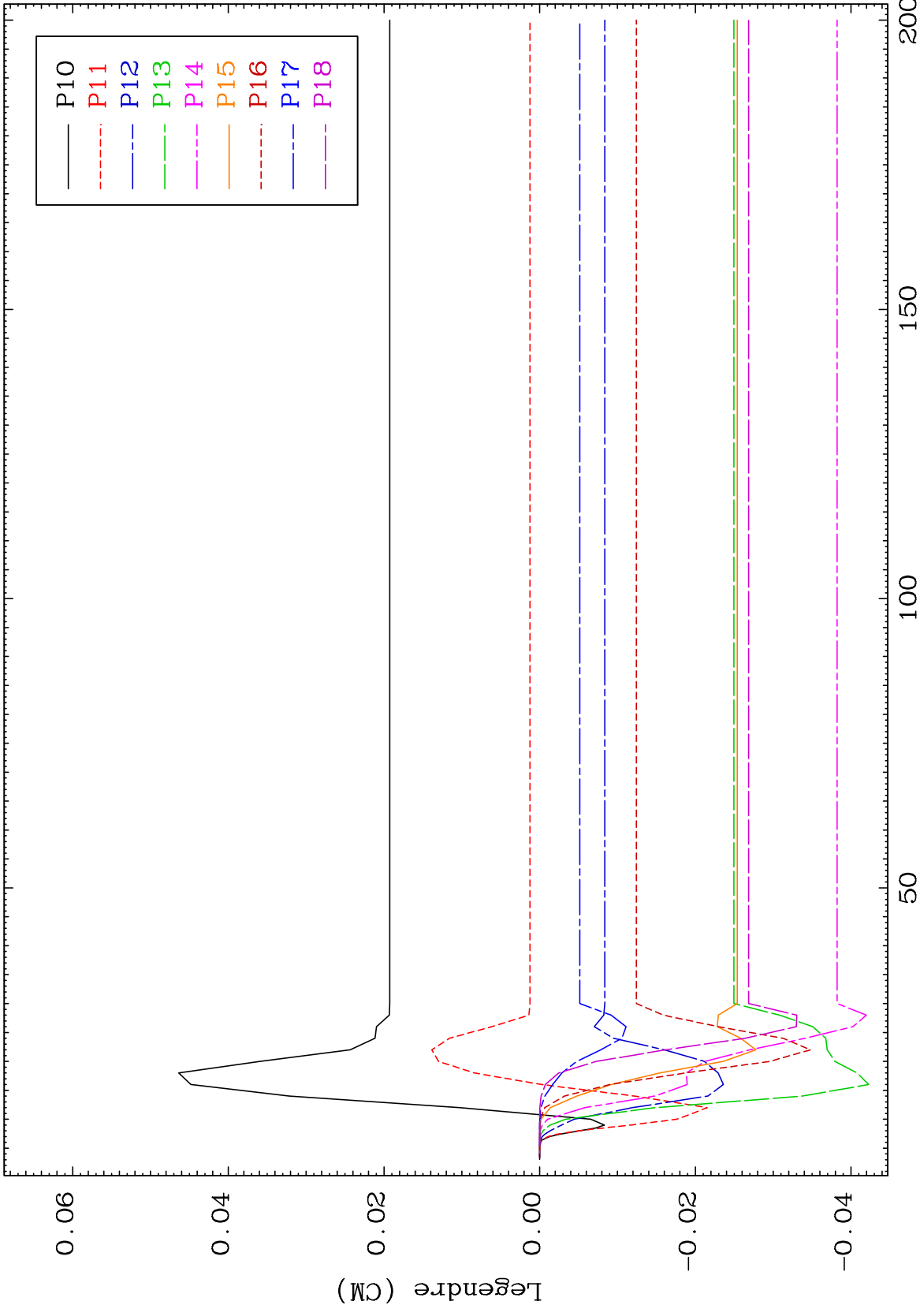
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178



123

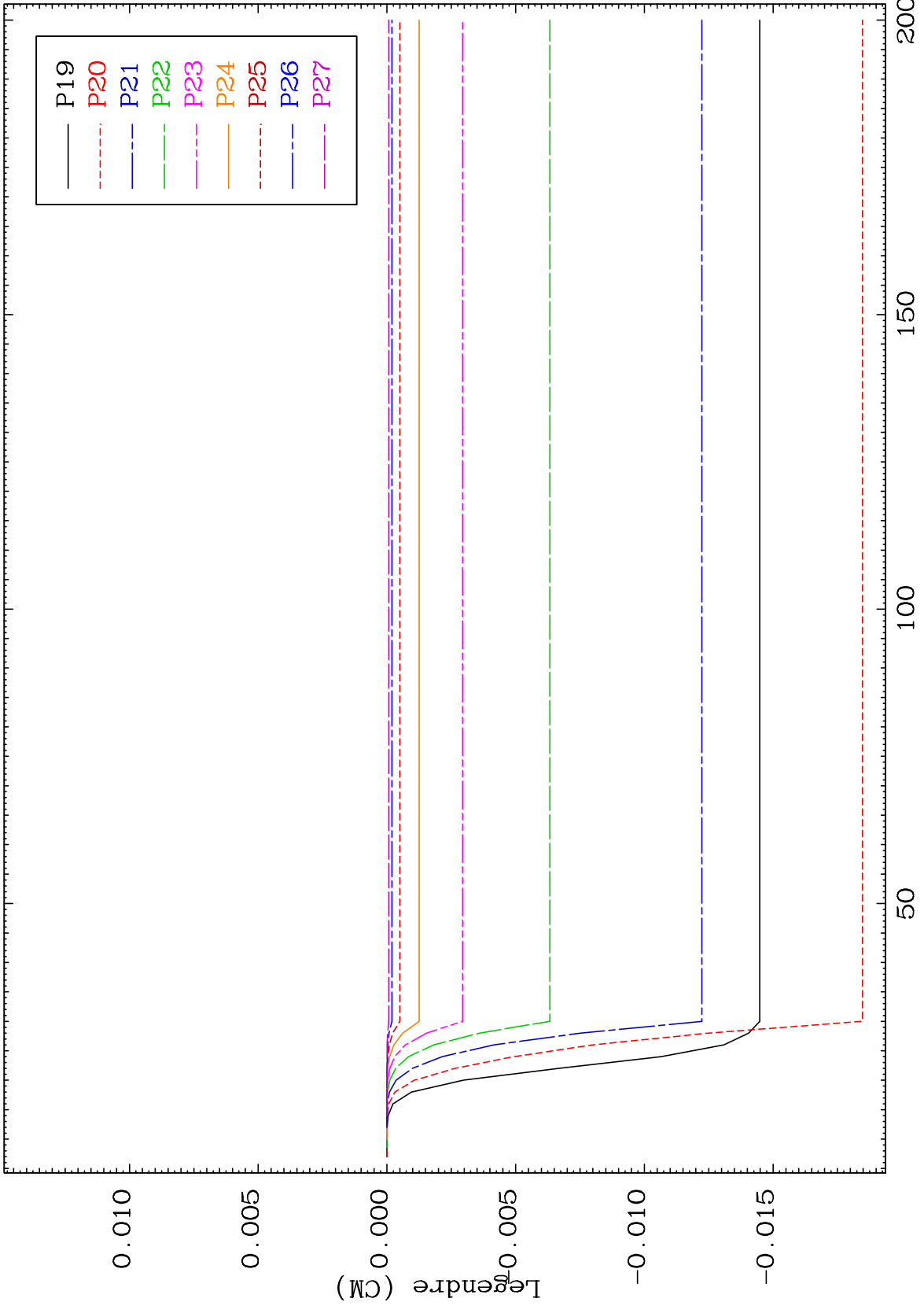
Incident Energy (MeV)

70-Yb-178

MAT 7055

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

70-Yb-178

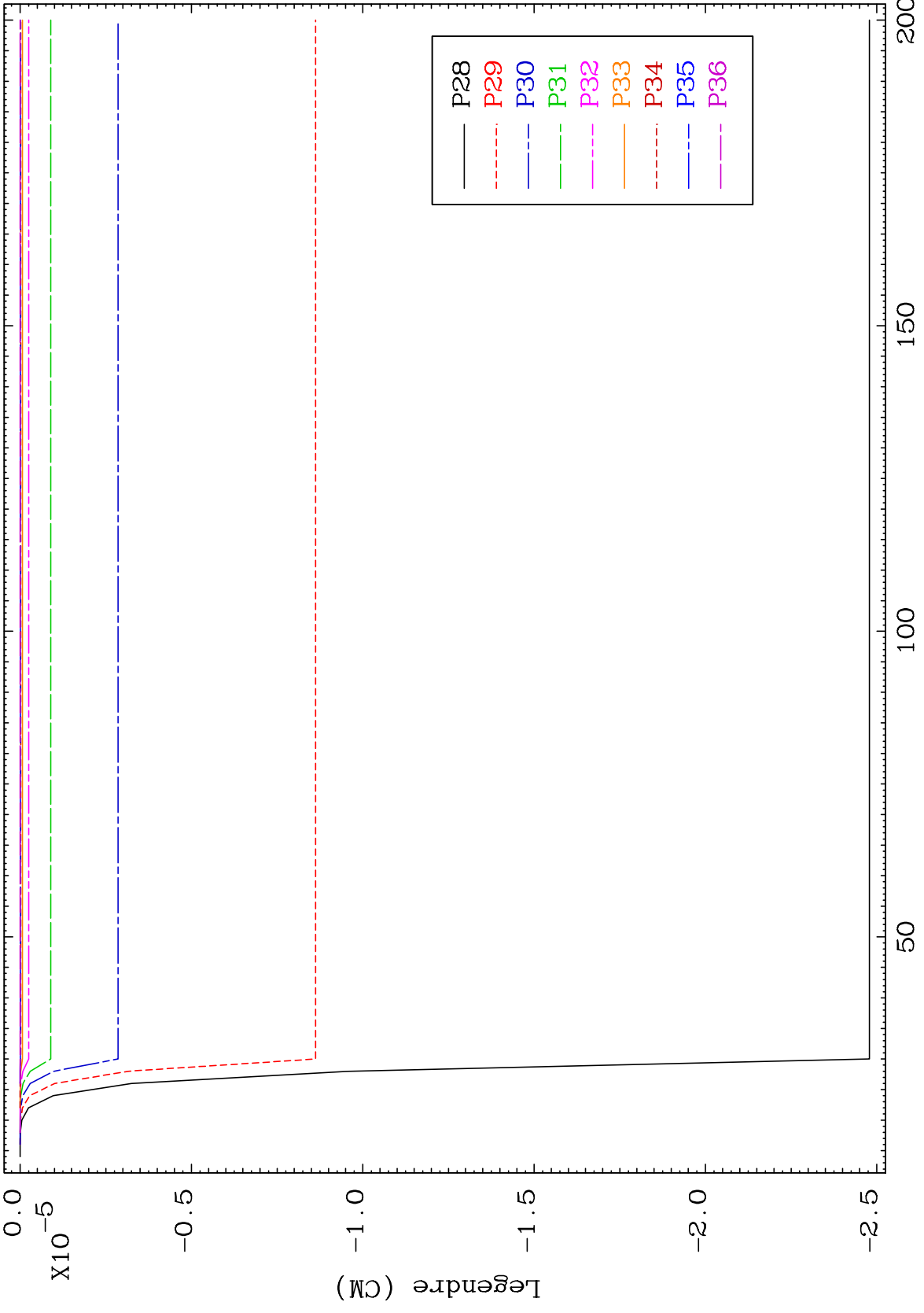


124

Incident Energy (MeV)

70-Yb-178

MAT 7055 MT= 78 (n,n') Level Legendre Coefficients 70-Yb-178

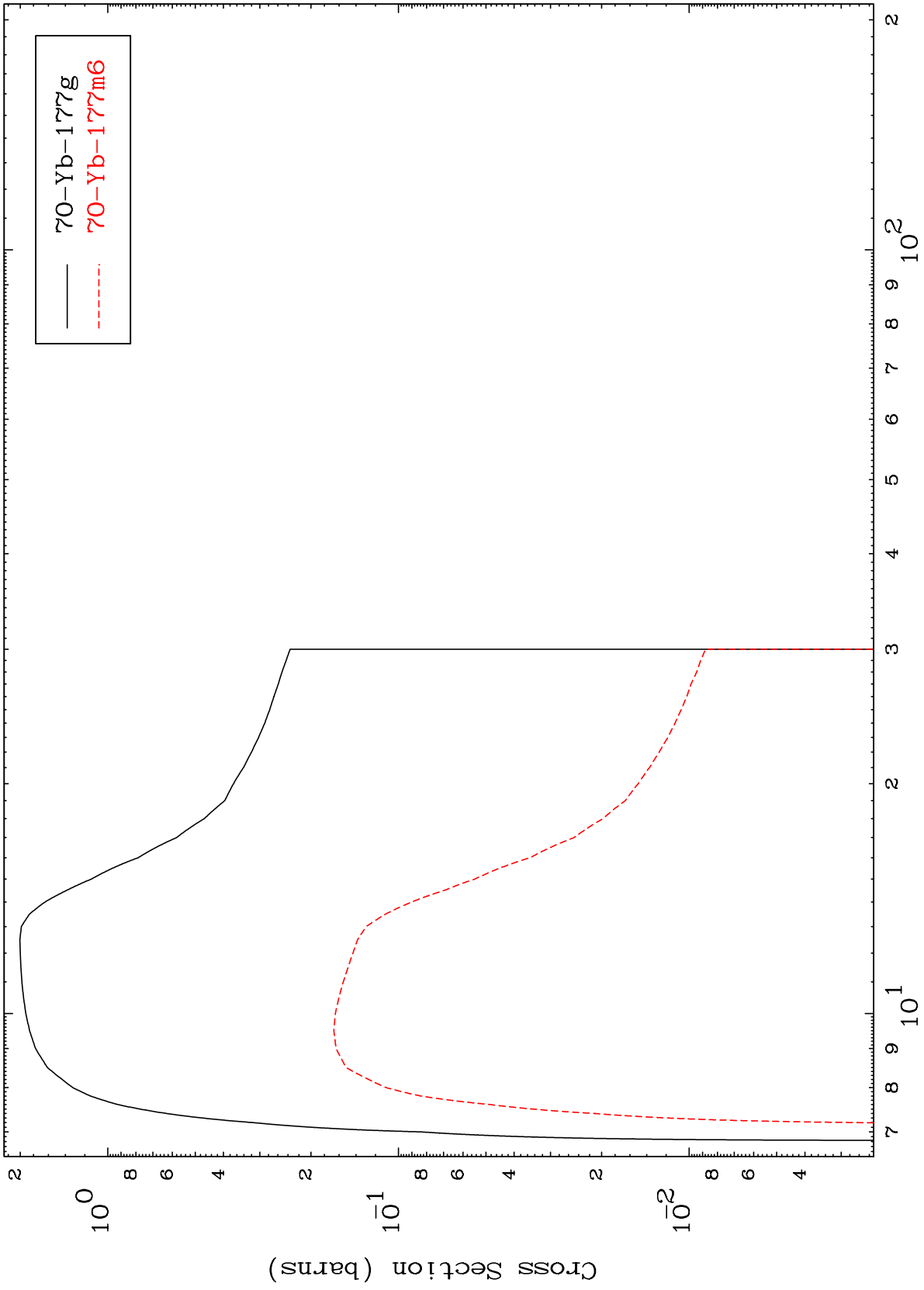


125 Incident Energy (MeV) 70-Yb-178

MAT 7055

70-Yb-178

(n,2n)
Radionuclide Production Cross Section



126

Incident Energy (MeV)

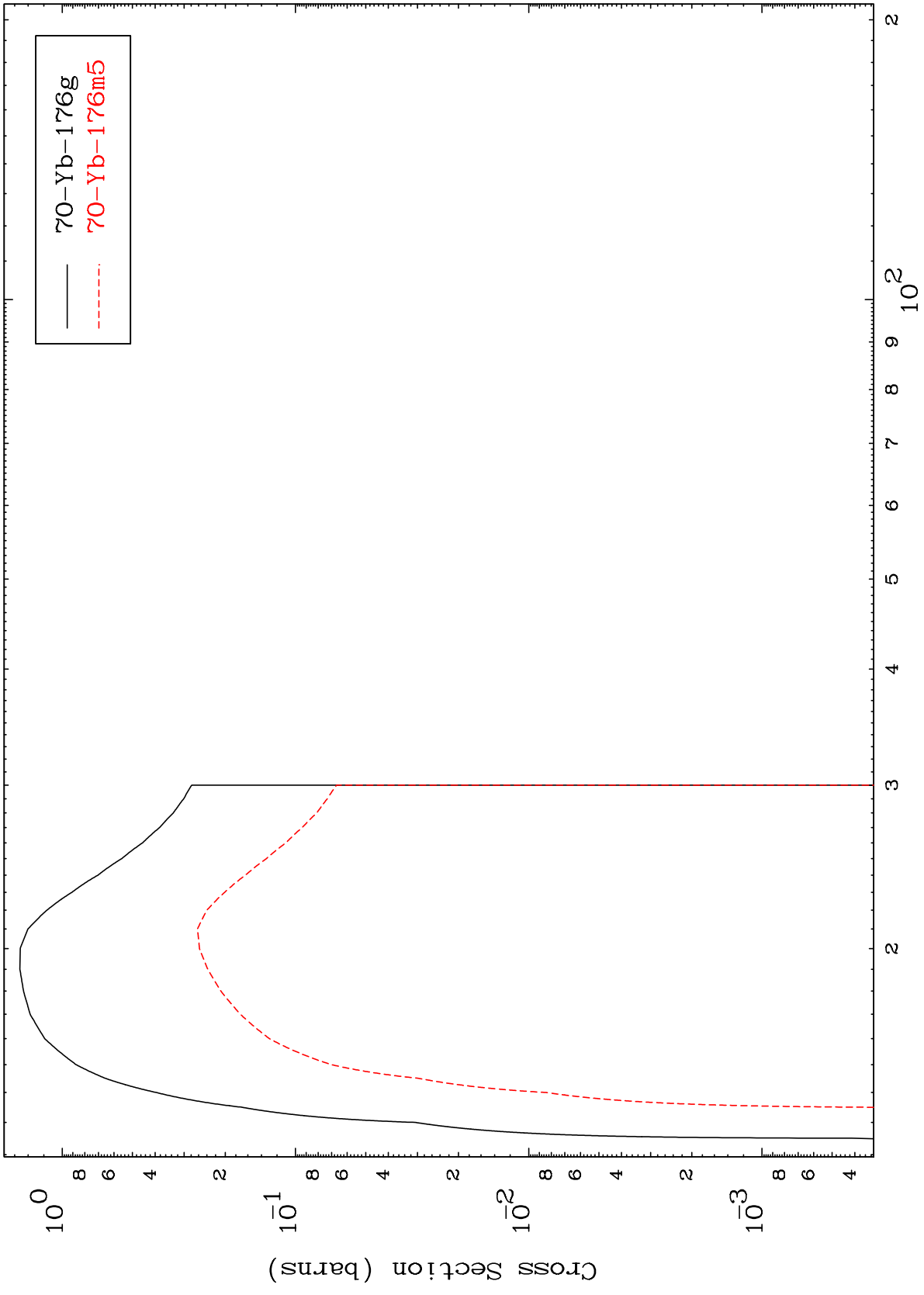
70-Yb-178

MAT 7055

(n,3n)

⁷⁰Yb-178

Radionuclide Production Cross Section



— ⁷⁰Yb-176g
- - - ⁷⁰Yb-176m5

127

Incident Energy (MeV)

⁷⁰Yb-178