

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

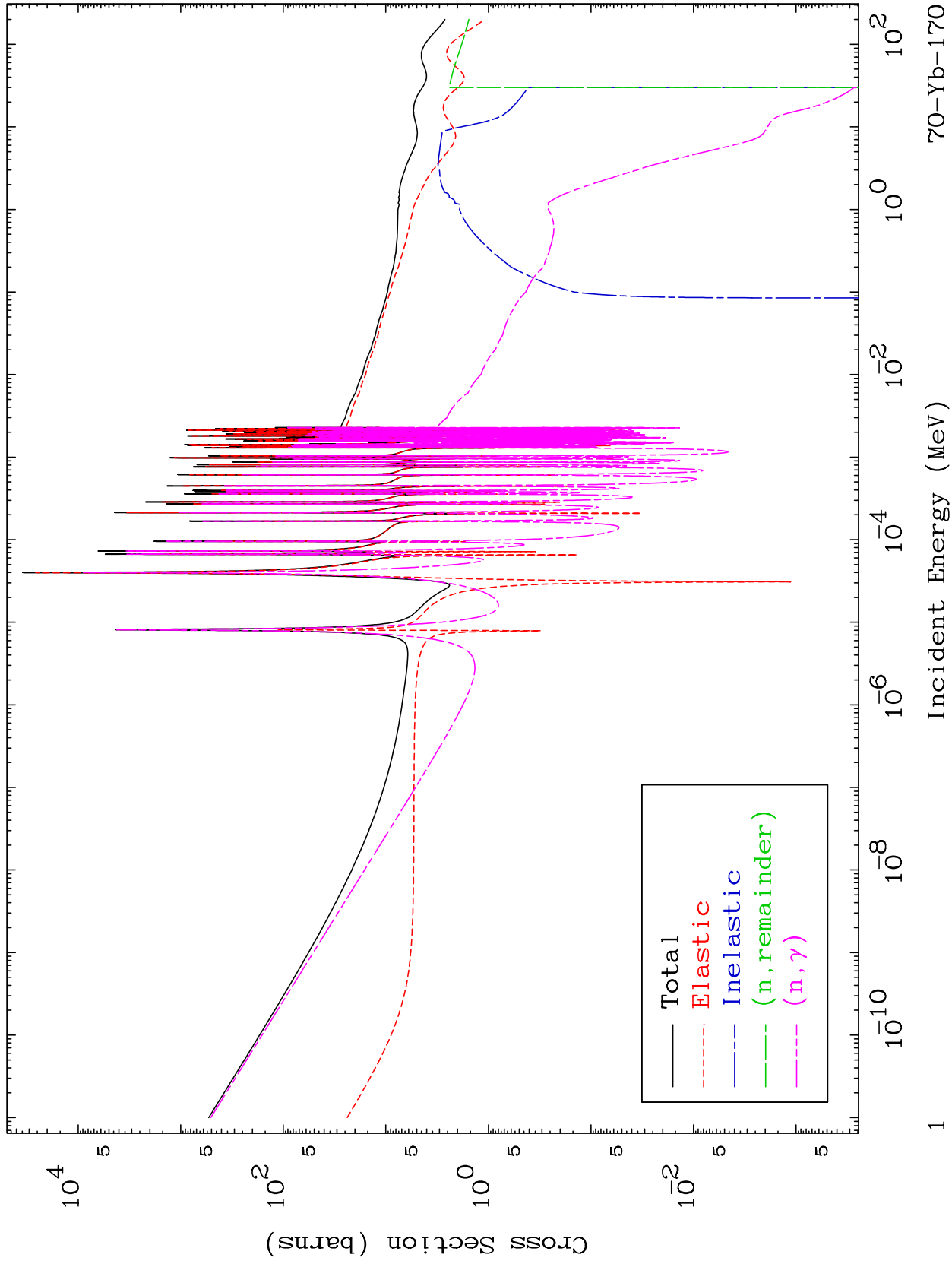
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7031

Major
293 Kelvin Cross Sections

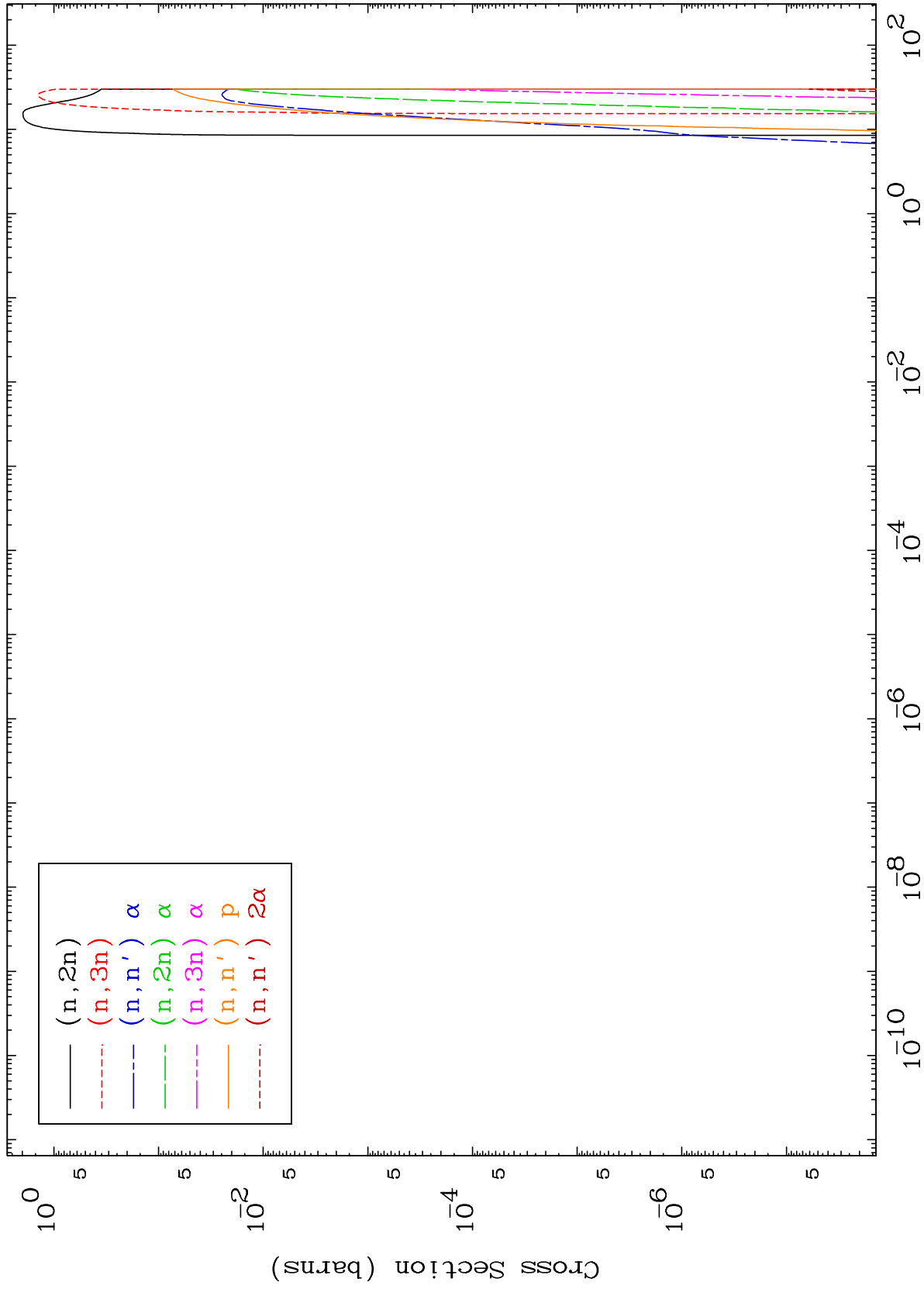
70-Yb-170



MAT 7031

Neutron Production
293 Kelvin Cross Sections

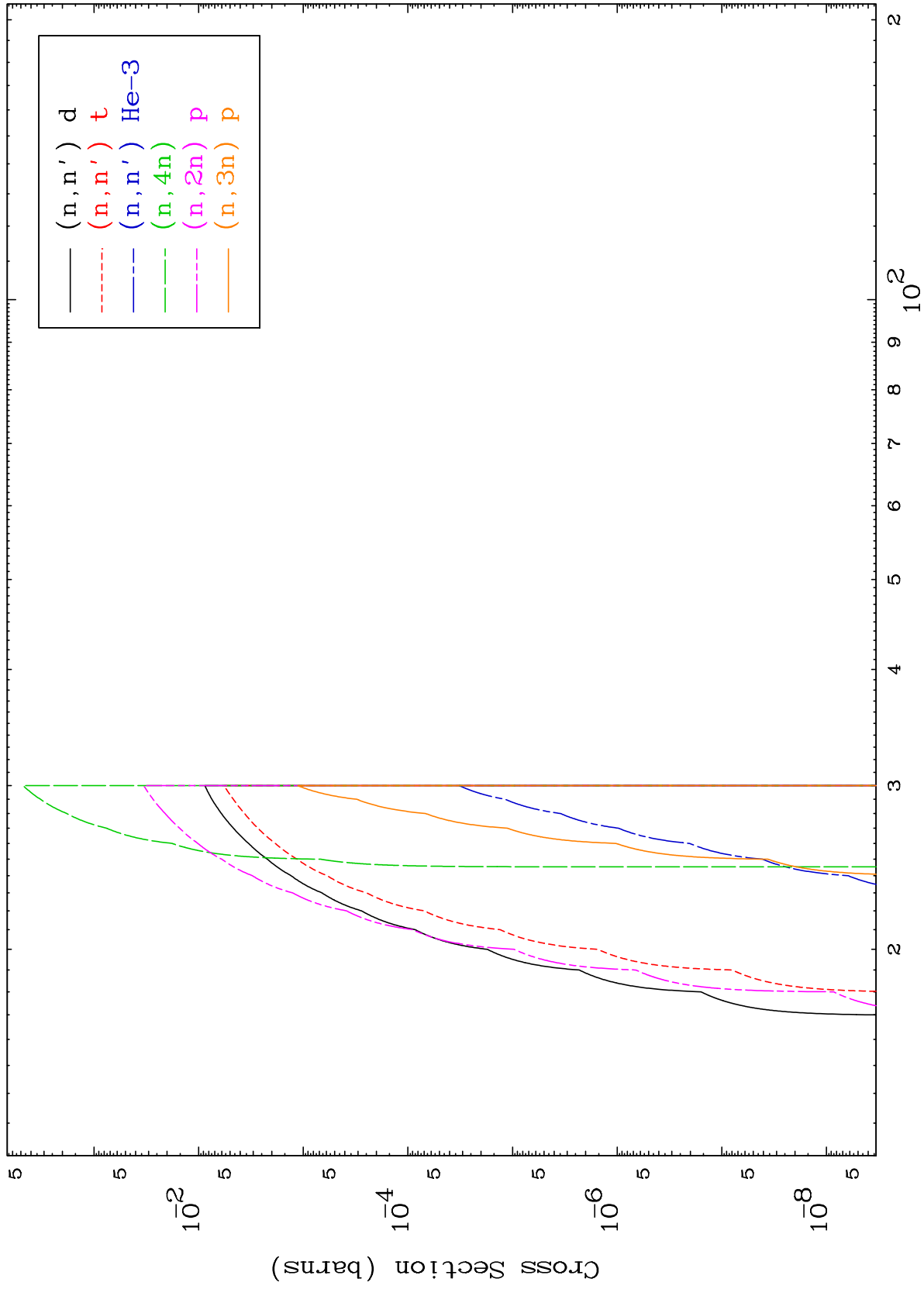
70-Yb-170



2

Incident Energy (MeV)

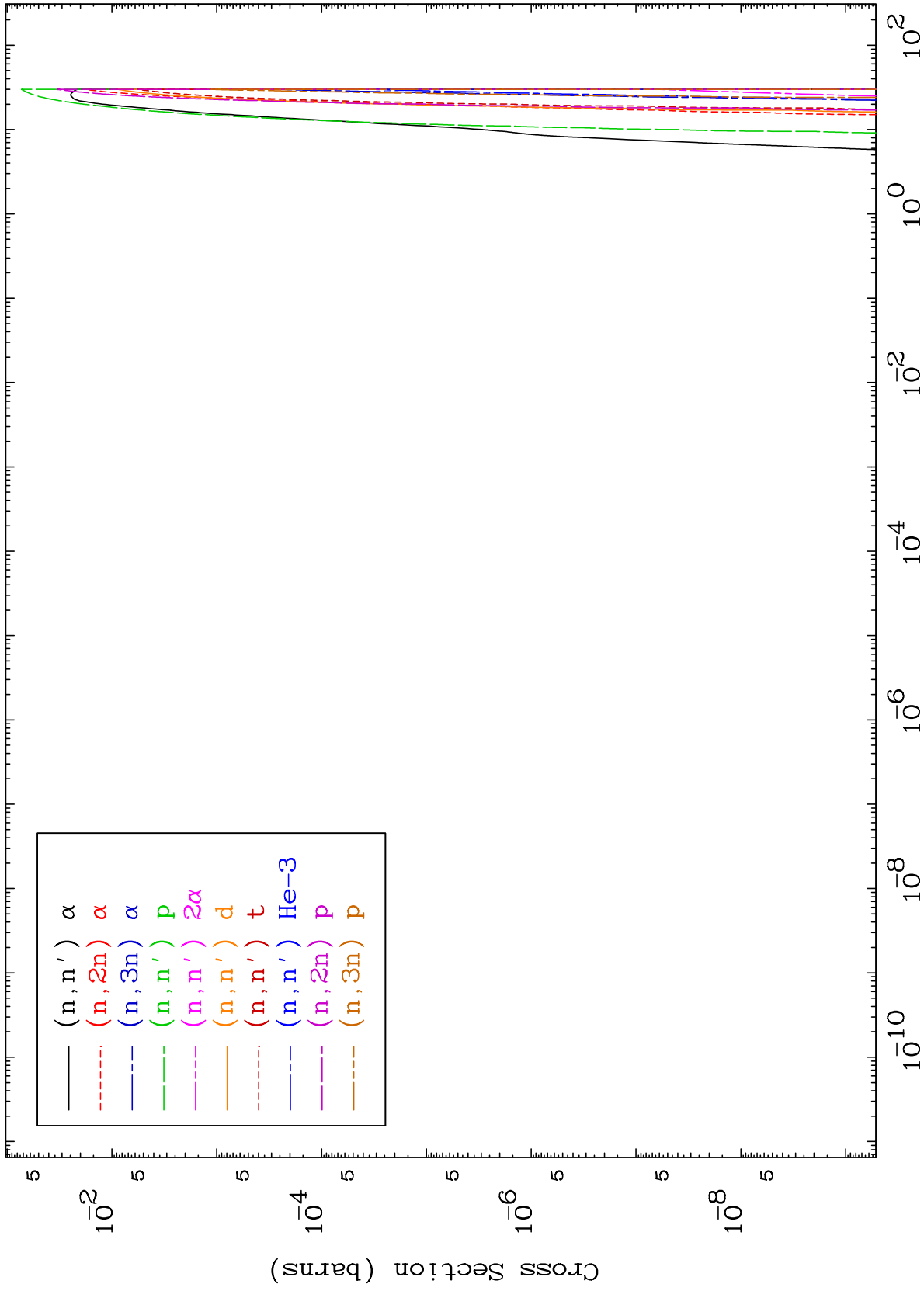
70-Yb-170



MAT 7031

293 Kelvin Cross Sections

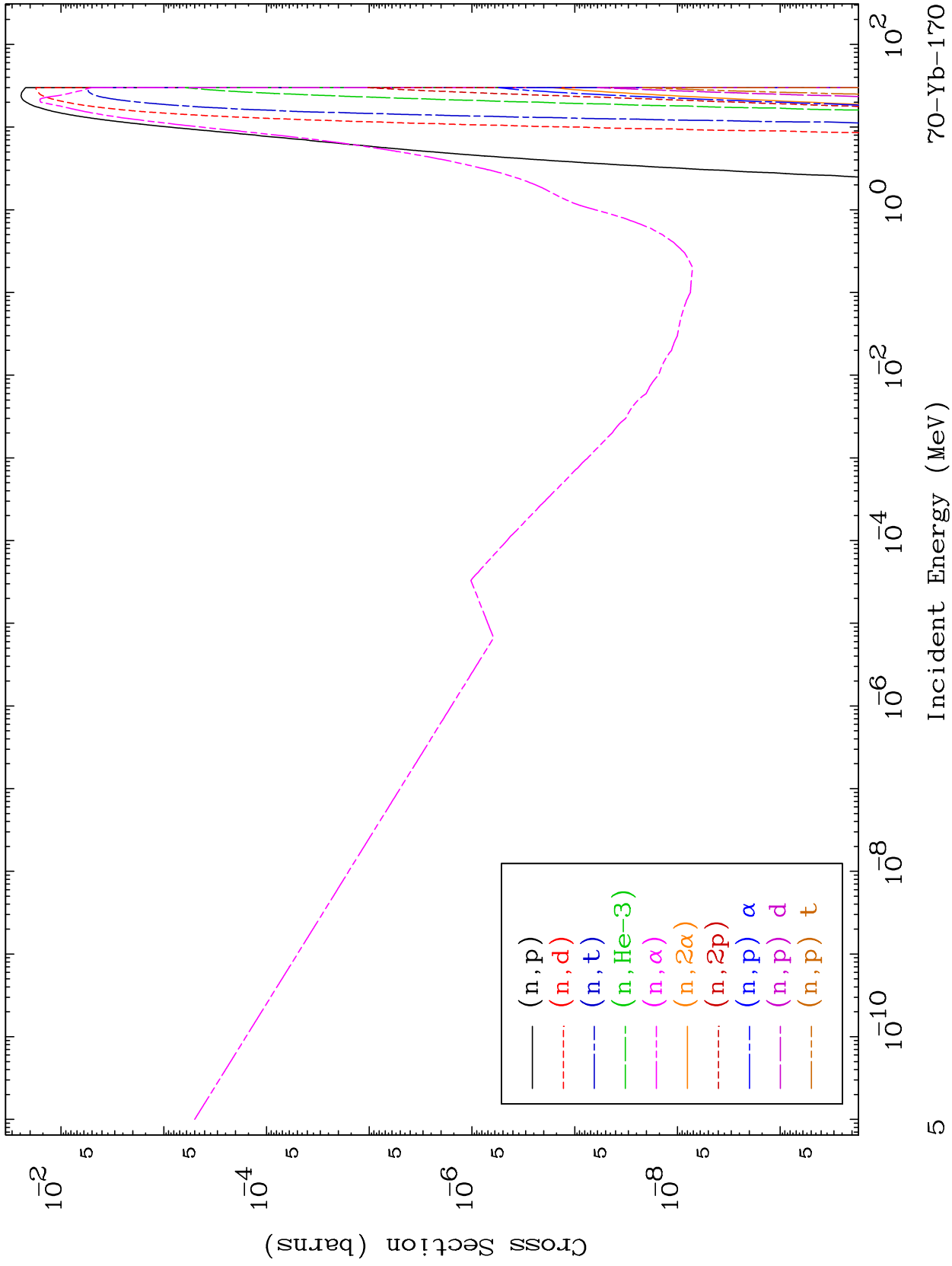
70-Yb-170



MAT 7031

293 Kelvin Cross Sections

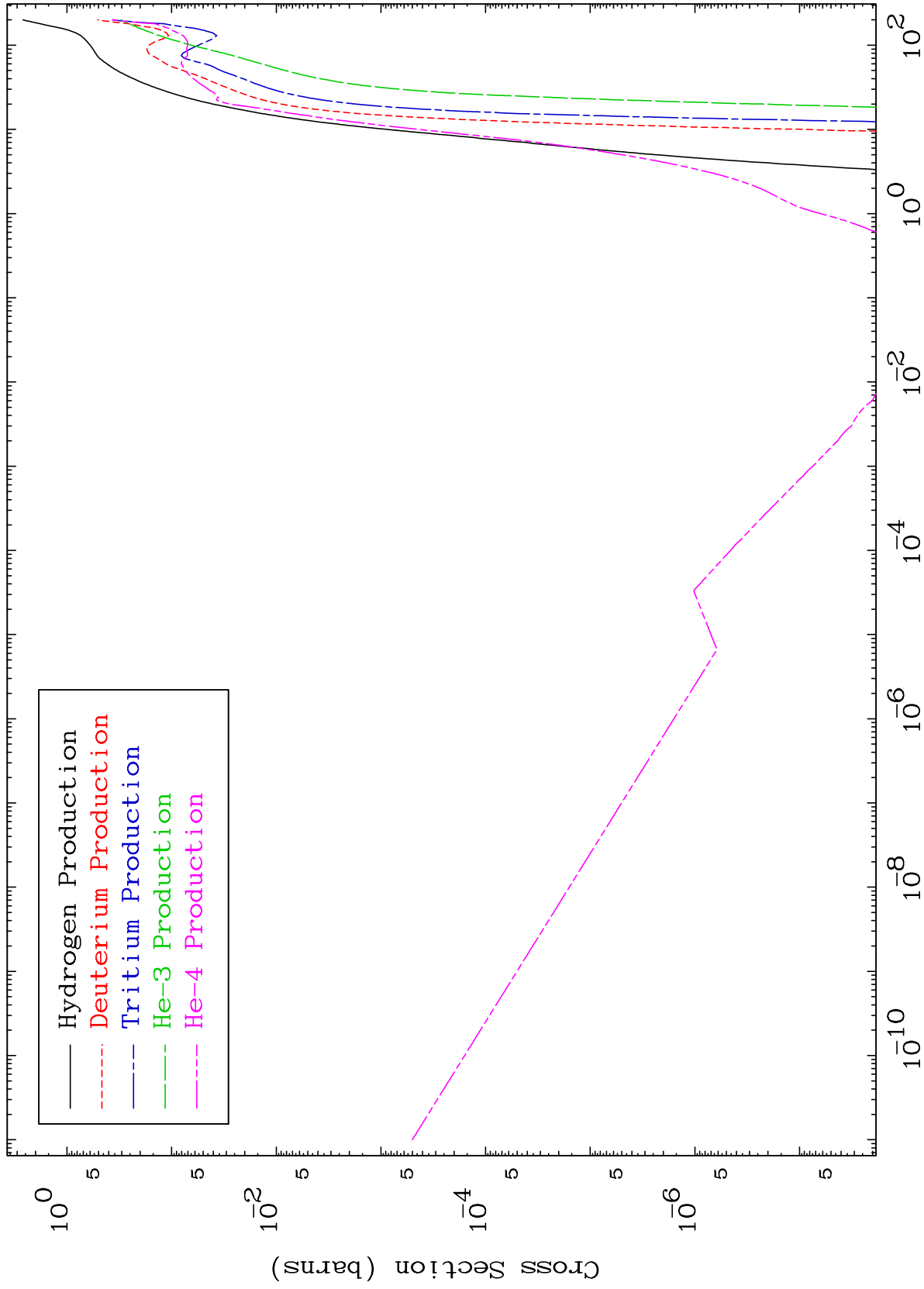
70-Yb-170



MAT 7031

Particle Production
293 Kelvin Cross Sections

70-Yb-170



6

Incident Energy (MeV)

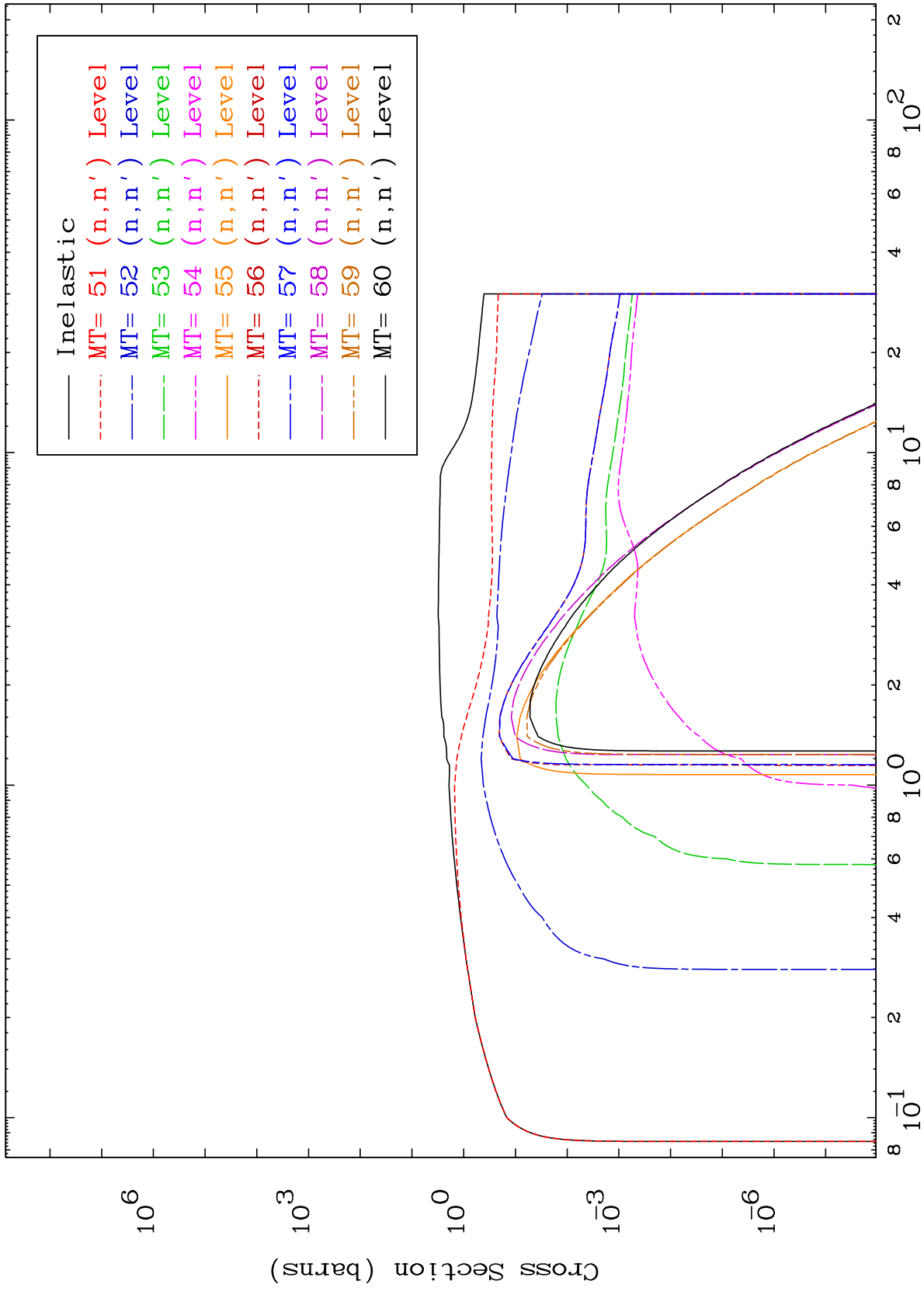
70-Yb-170

MAT 7031

(n,n') Level

293 Kelvin Cross Sections

70-Yb-170



7

Incident Energy (MeV)

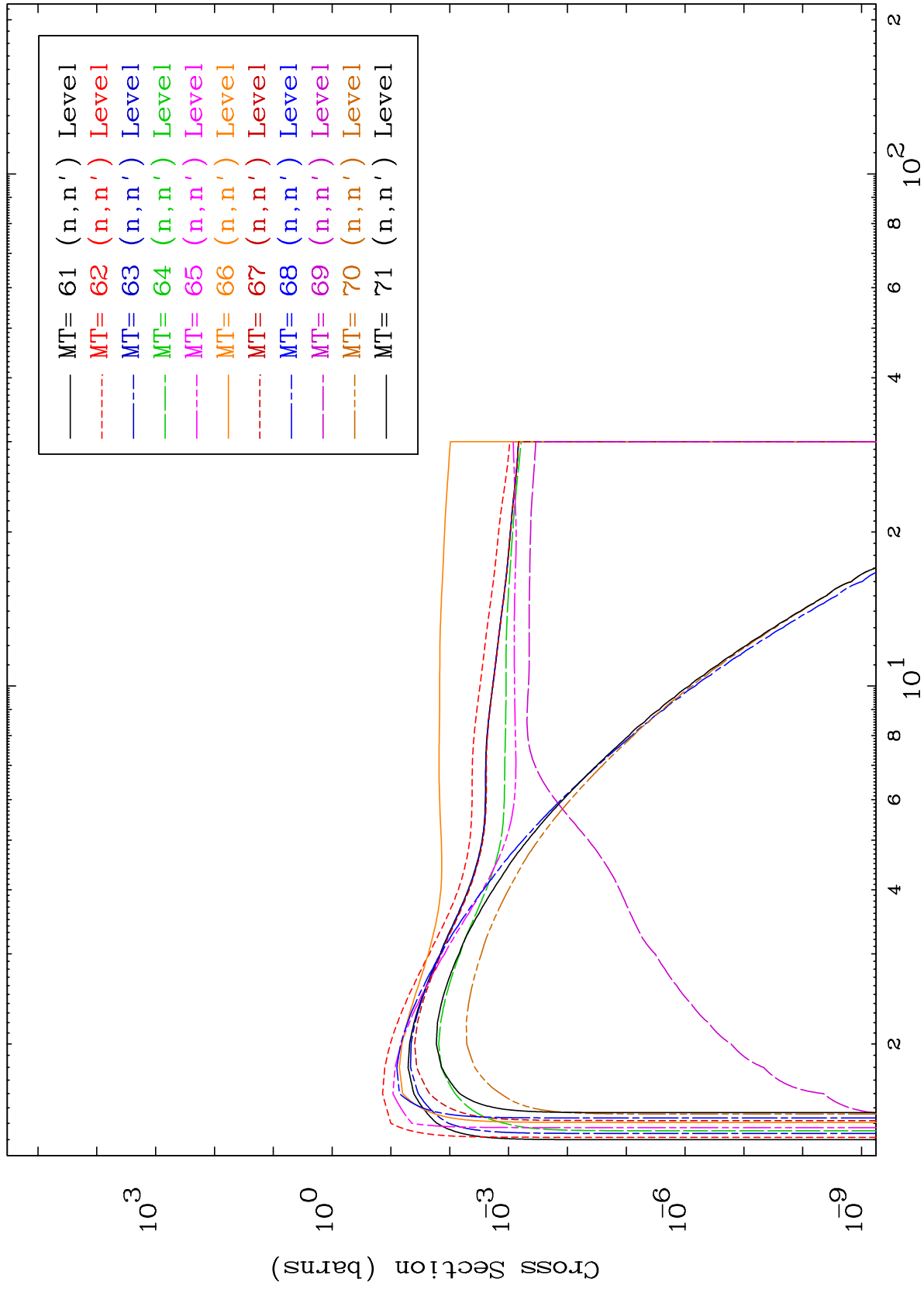
70-Yb-170

MAT 7031

(n,n') Level

293 Kelvin Cross Sections

70-Yb-170



8

Incident Energy (MeV)

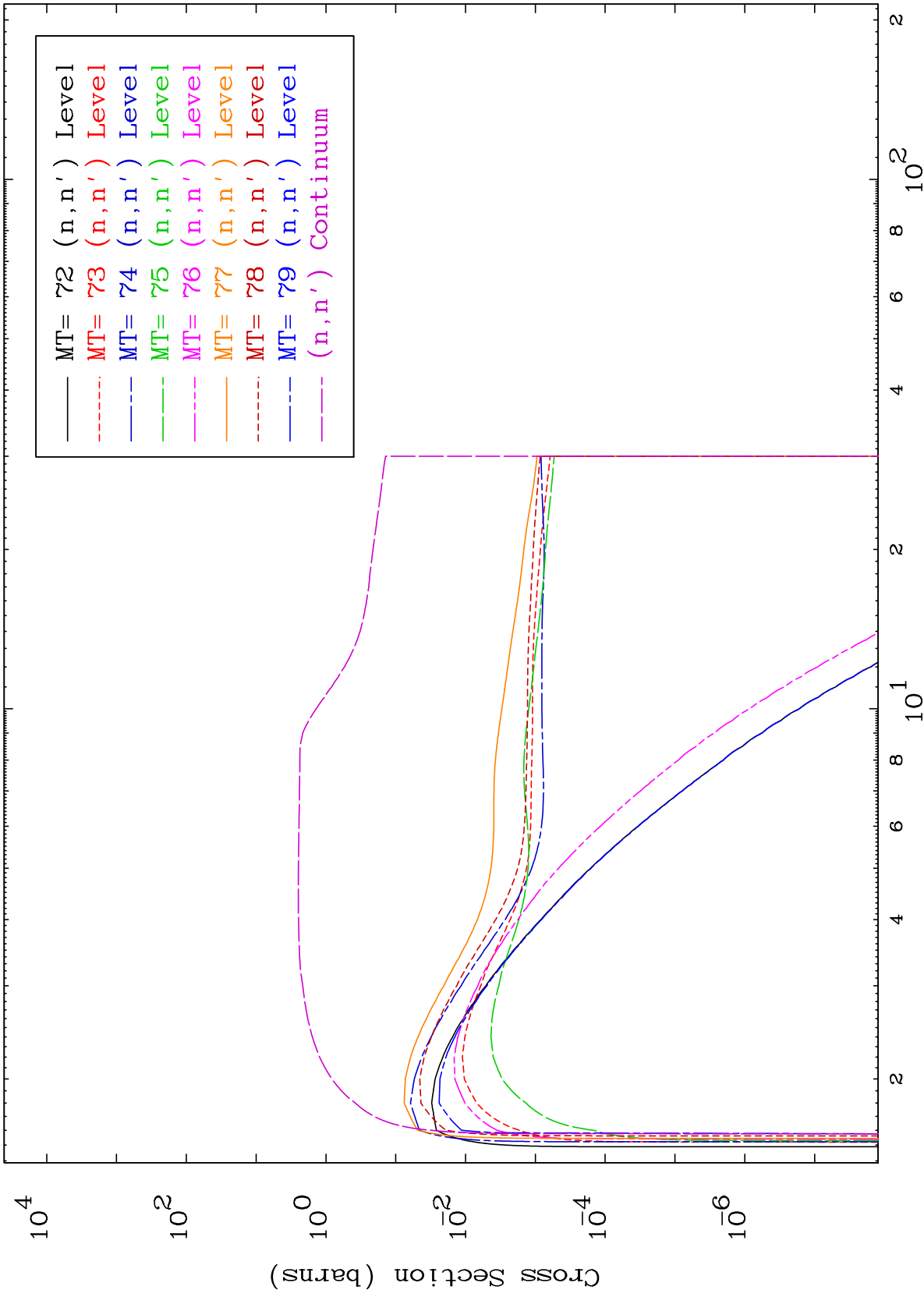
70-Yb-170

MAT 7031

(n,n') Level

70-Yb-170

293 Kelvin Cross Sections



9

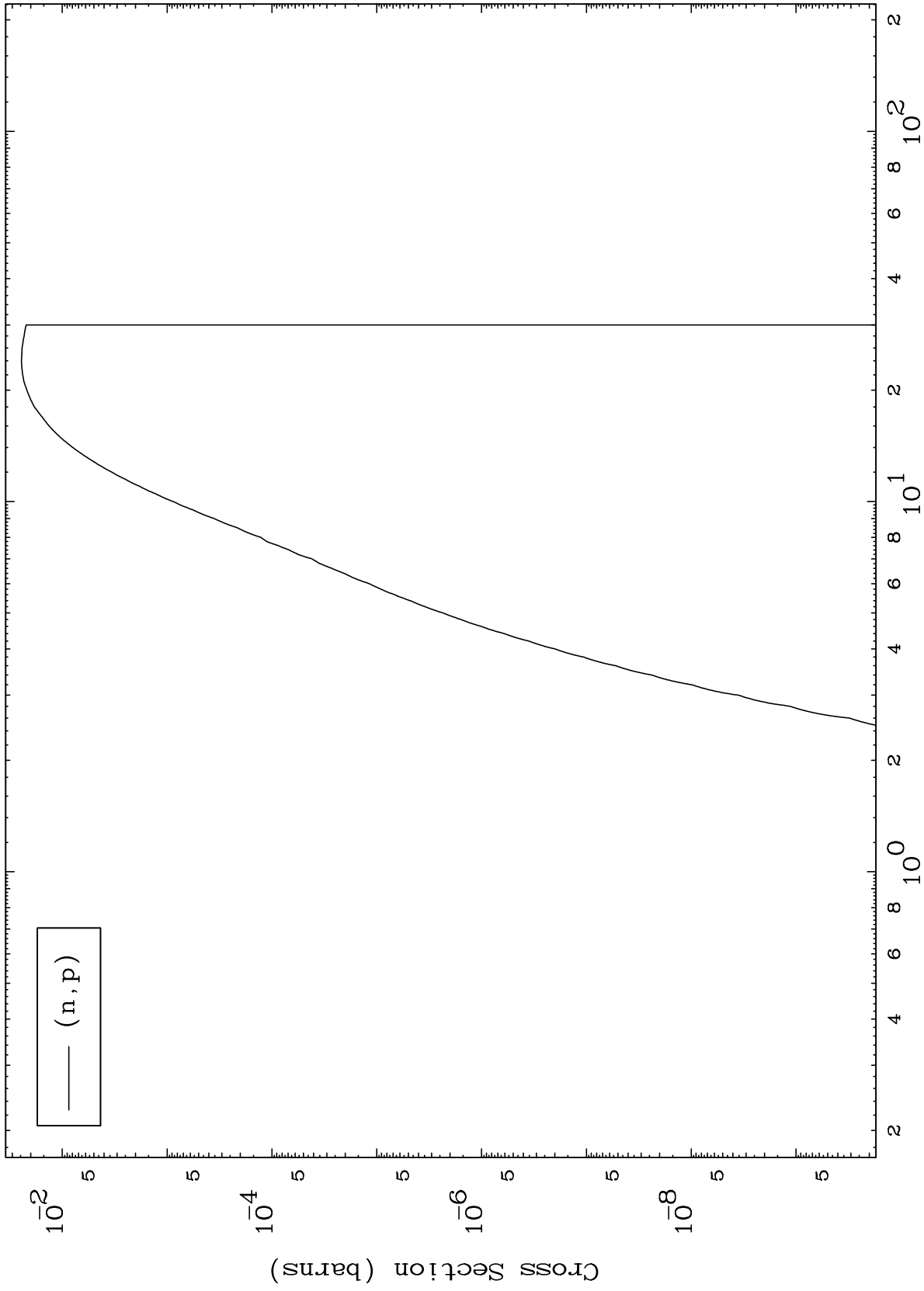
Incident Energy (MeV)

70-Yb-170

MAT 7031

(n,p) Levels
293 Kelvin Cross Sections

70-Yb-170



10

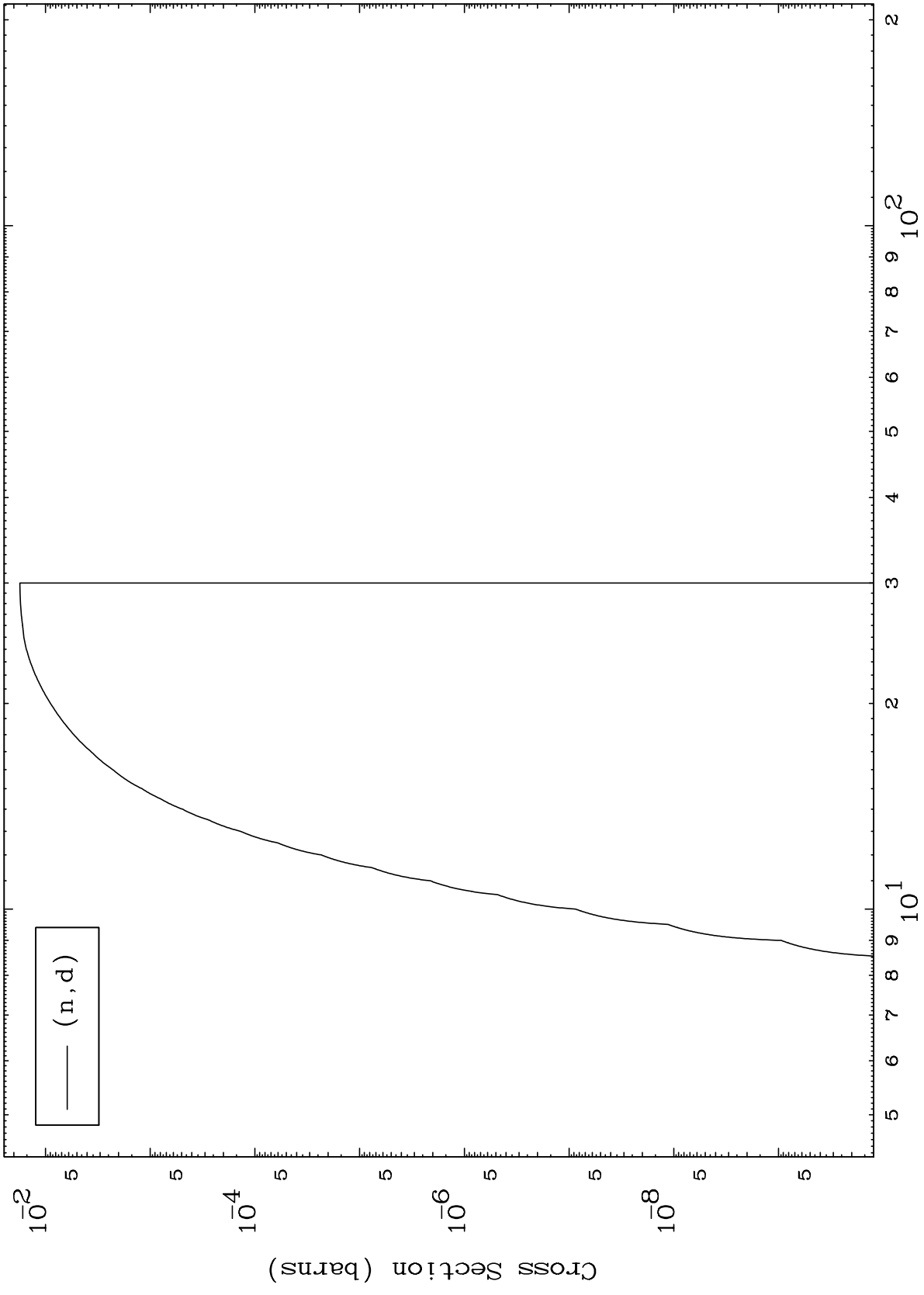
Incident Energy (MeV)

70-Yb-170

MAT 7031

(n,d) Levels
293 Kelvin Cross Sections

70-Yb-170



11

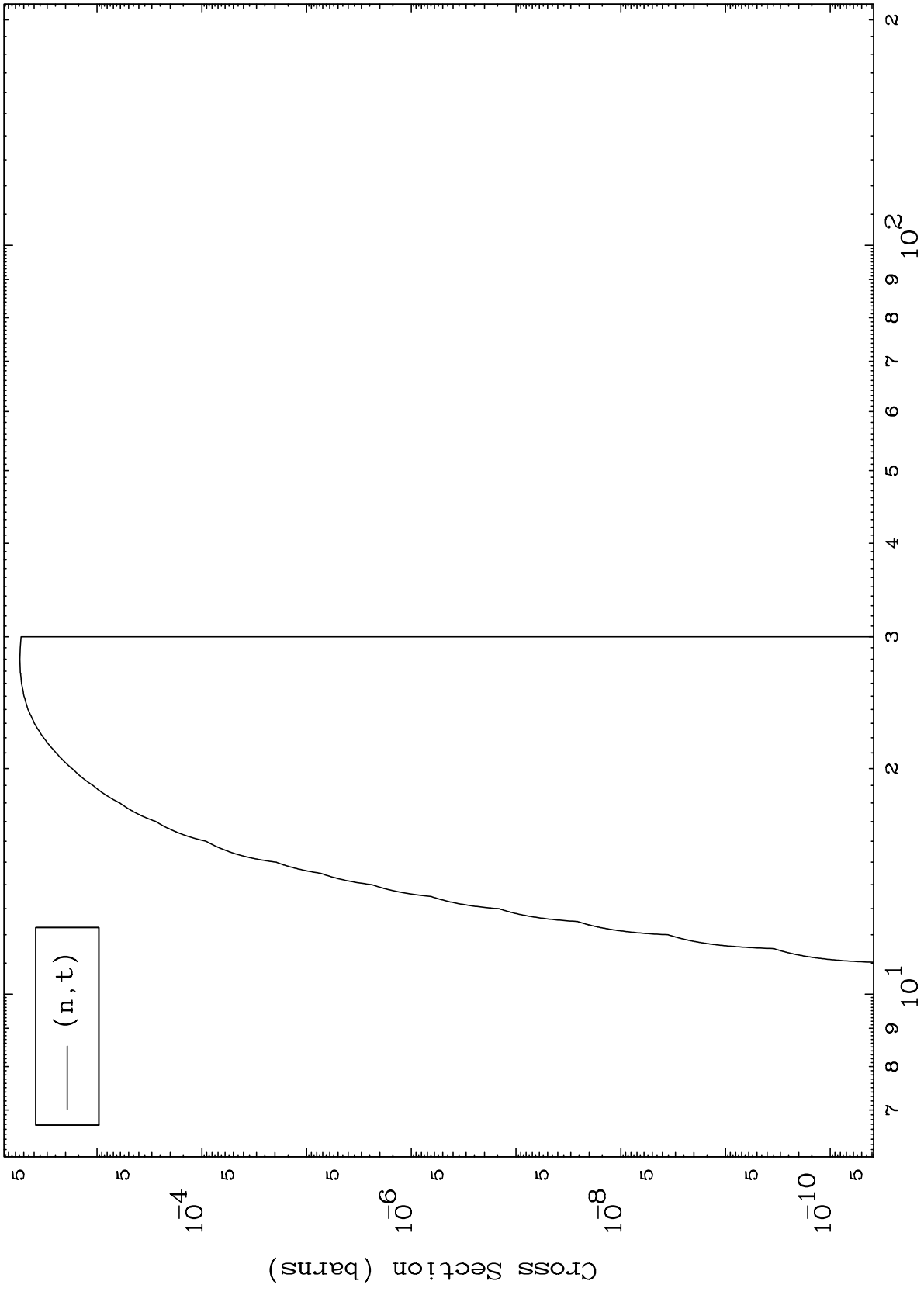
Incident Energy (MeV)

70-Yb-170

MAT 7031

(n,t) Levels
293 Kelvin Cross Sections

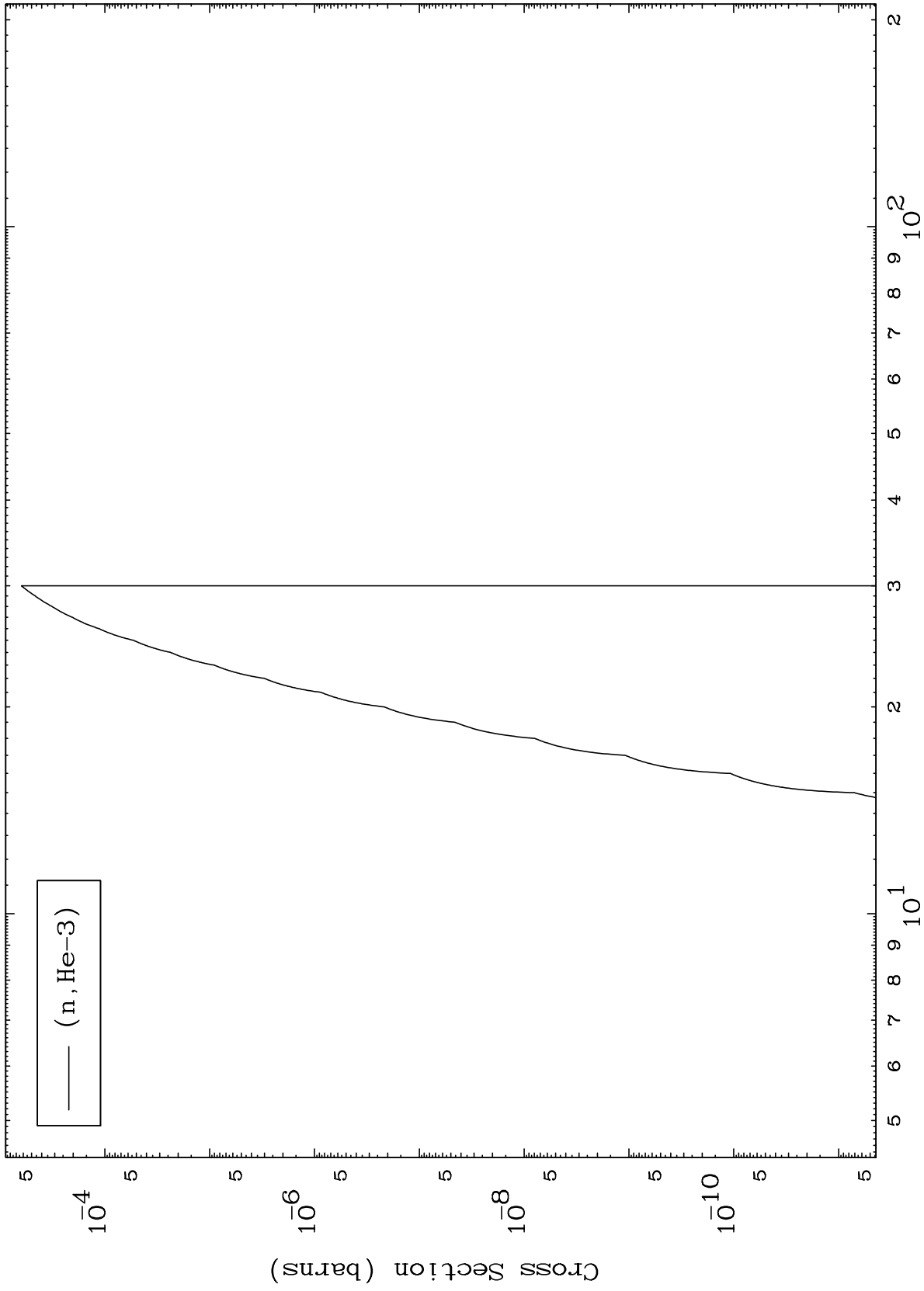
70-Yb-170



MAT 7031

(n,He3) Levels
293 Kelvin Cross Sections

70-Yb-170



13

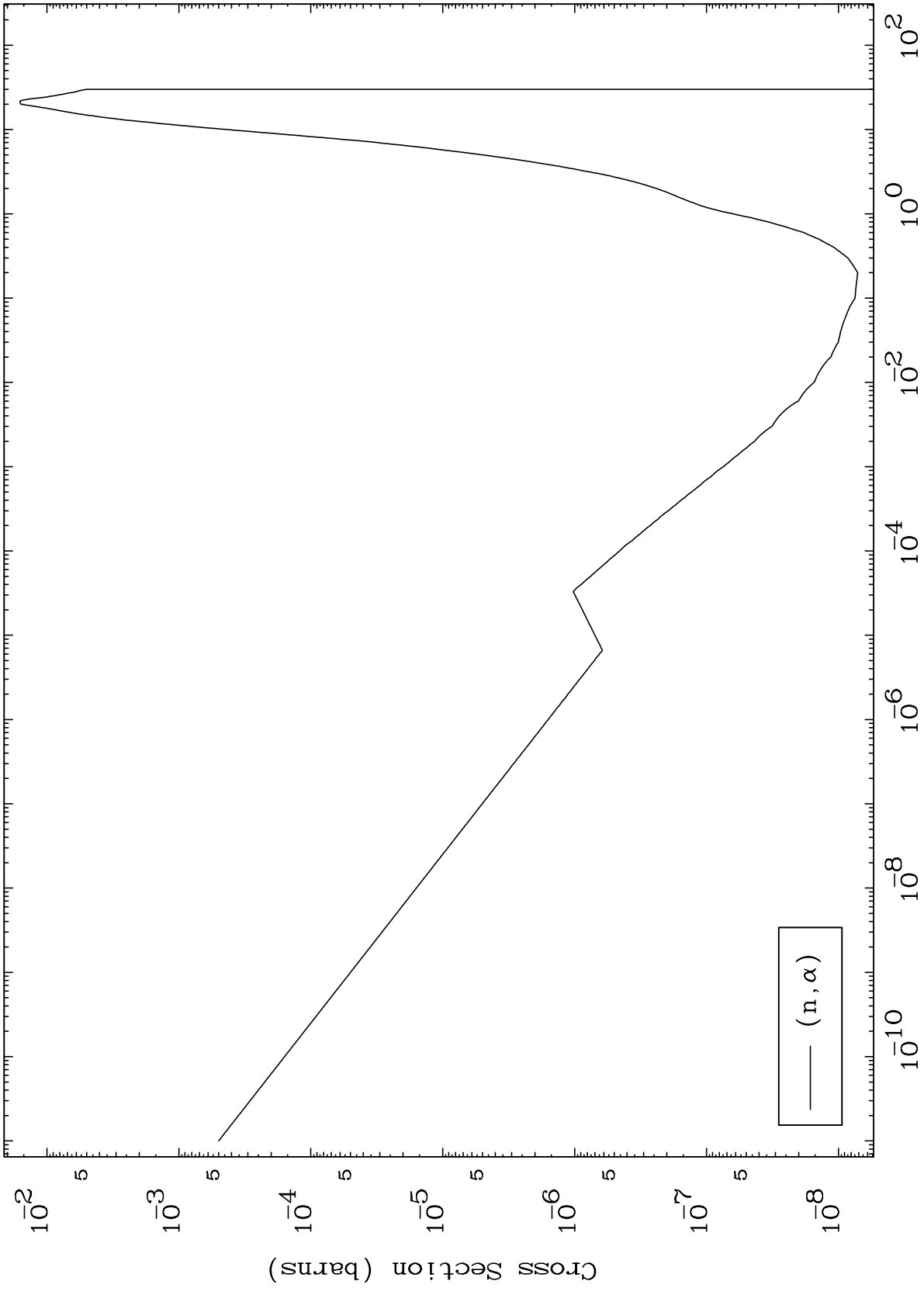
Incident Energy (MeV)

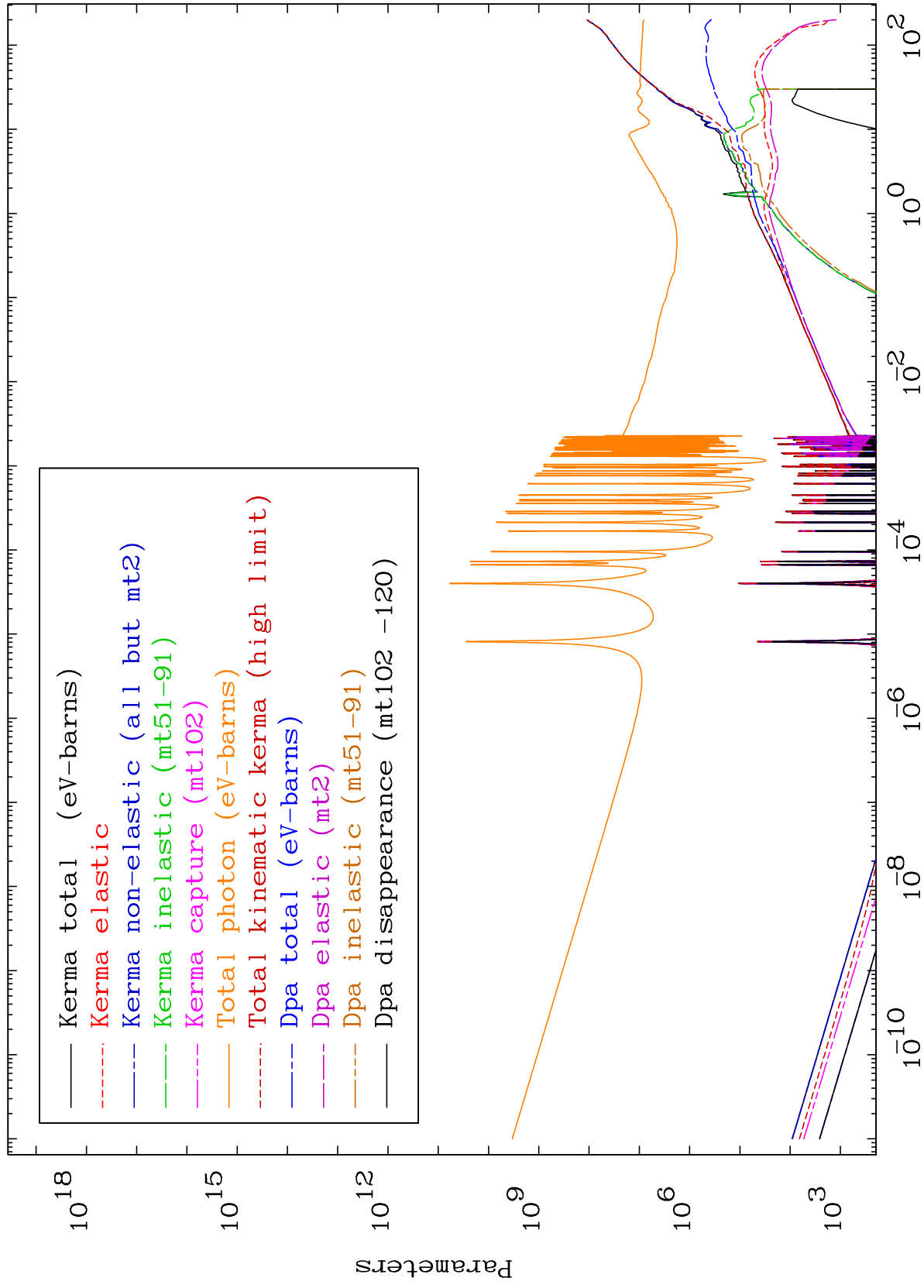
70-Yb-170

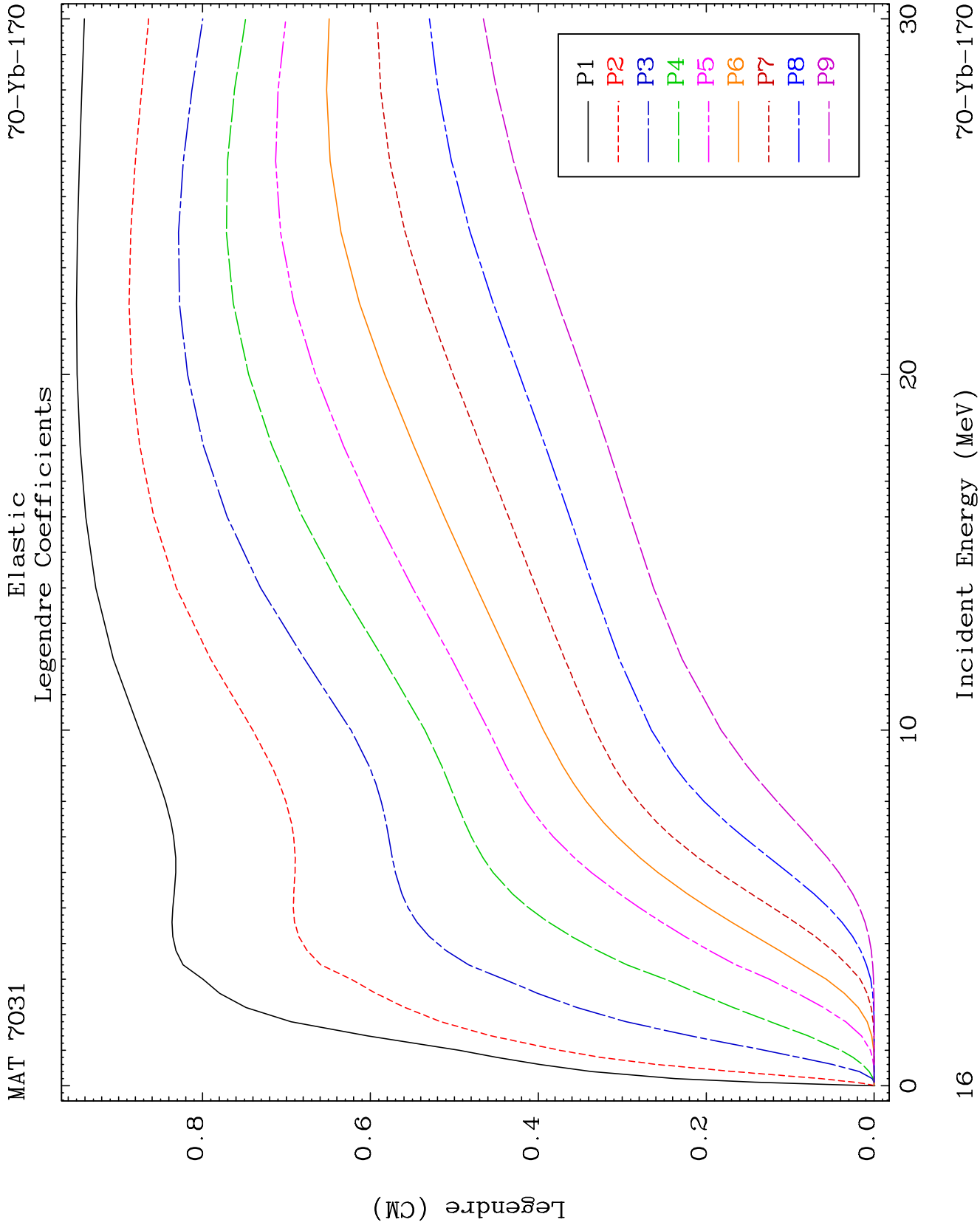
MAT 7031

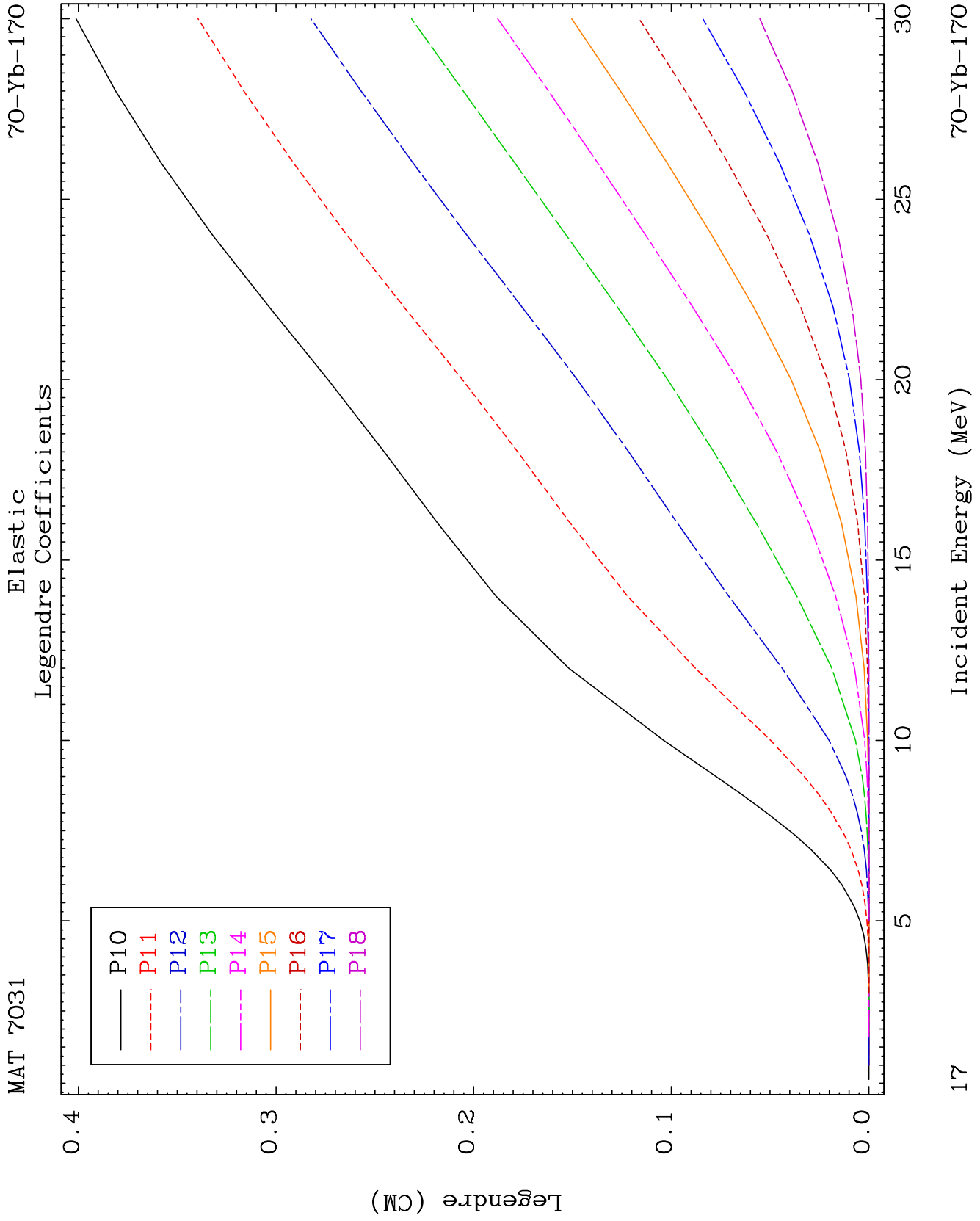
293 Kelvin Cross Sections
(n,α) Levels

70-Yb-170





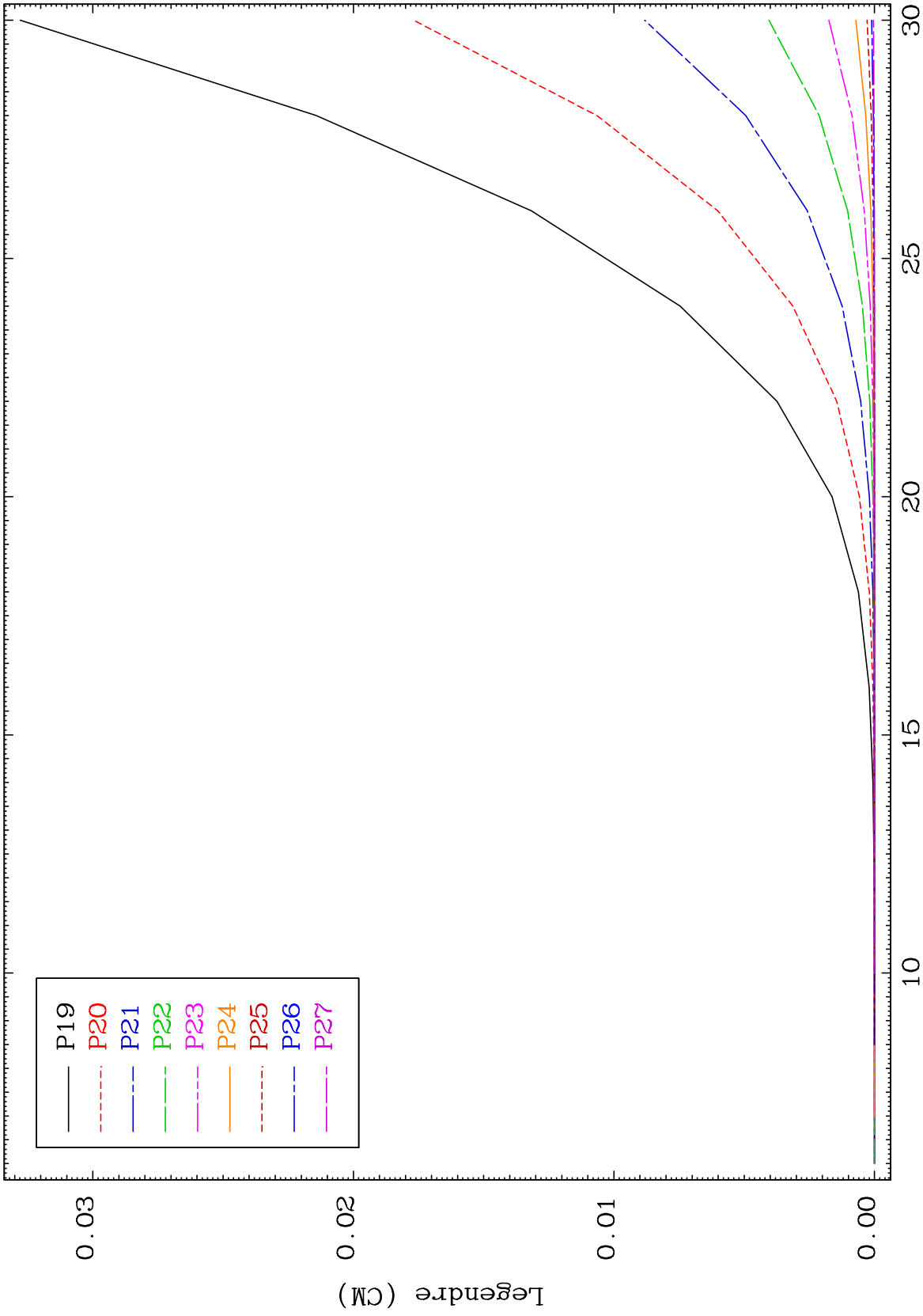




MAT 7031

Elastic Legendre Coefficients

70-Yb-170



18

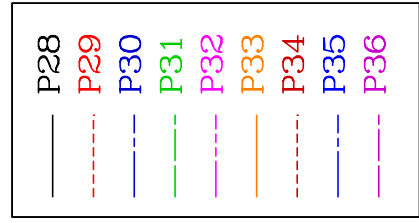
Incident Energy (MeV)

70-Yb-170

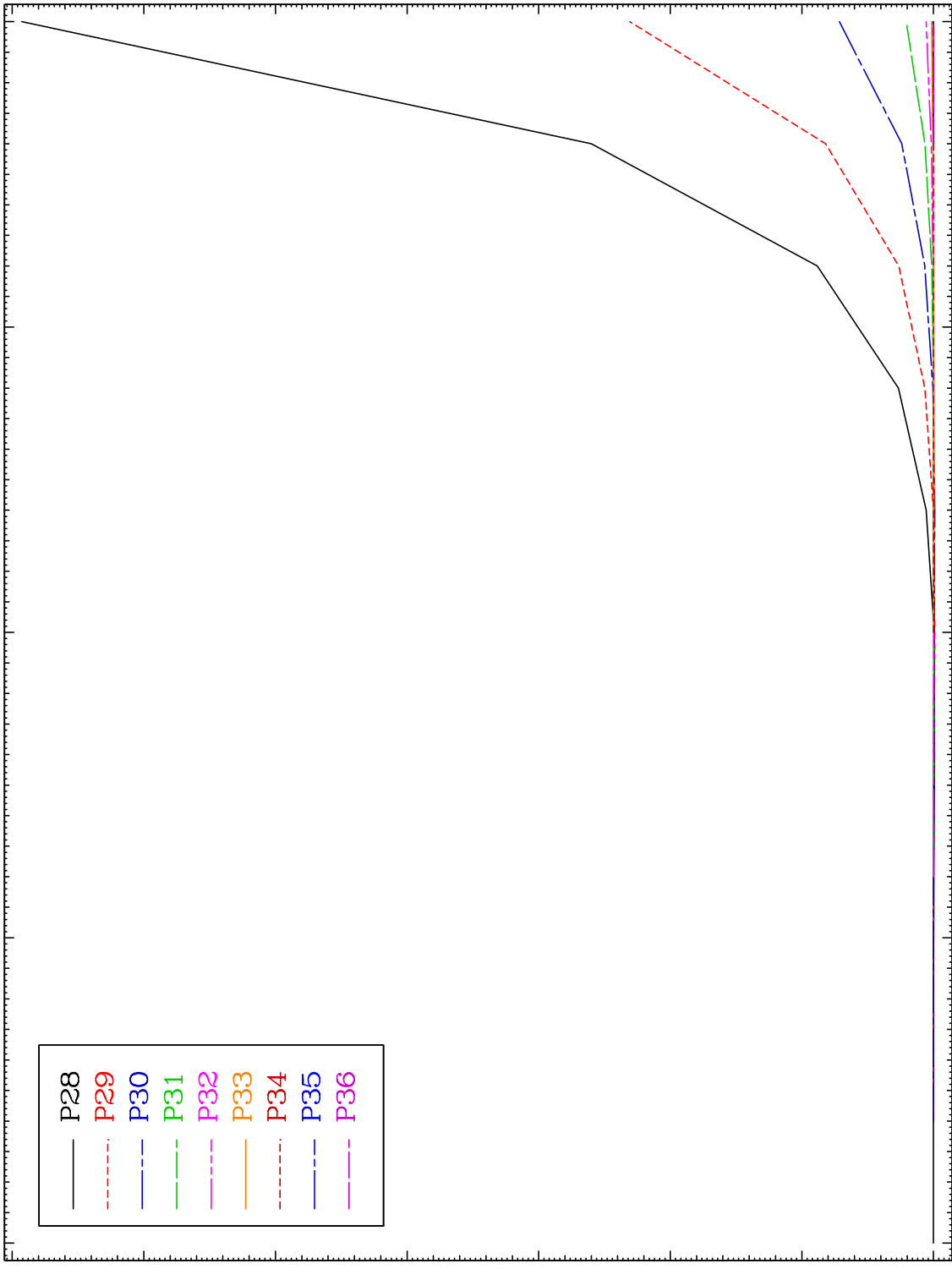
MAT 7031

Elastic Legendre Coefficients

70-Yb-170



Legendre (CM) $\times 10^{-5}$



10

15

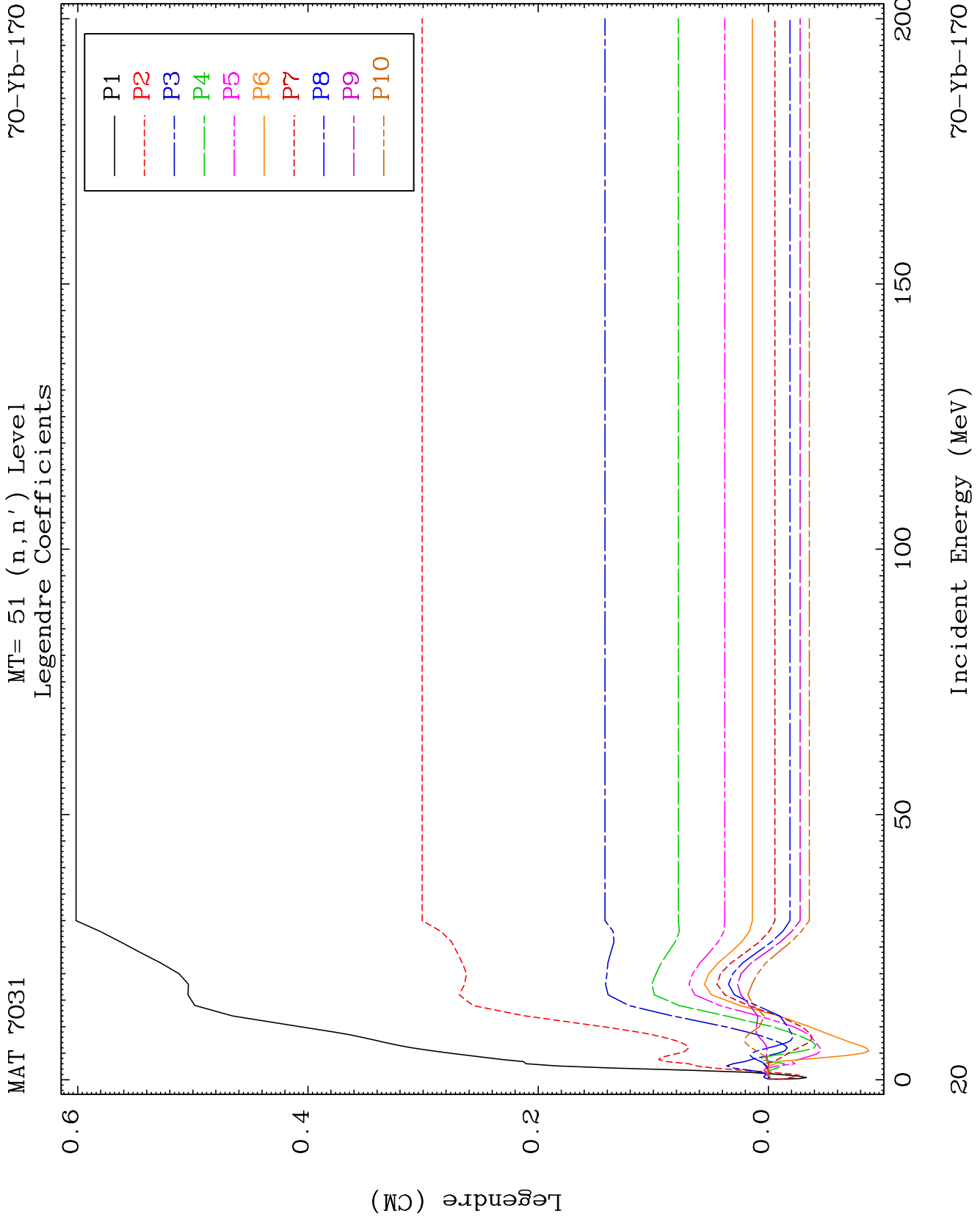
20

25

30

Incident Energy (MeV)

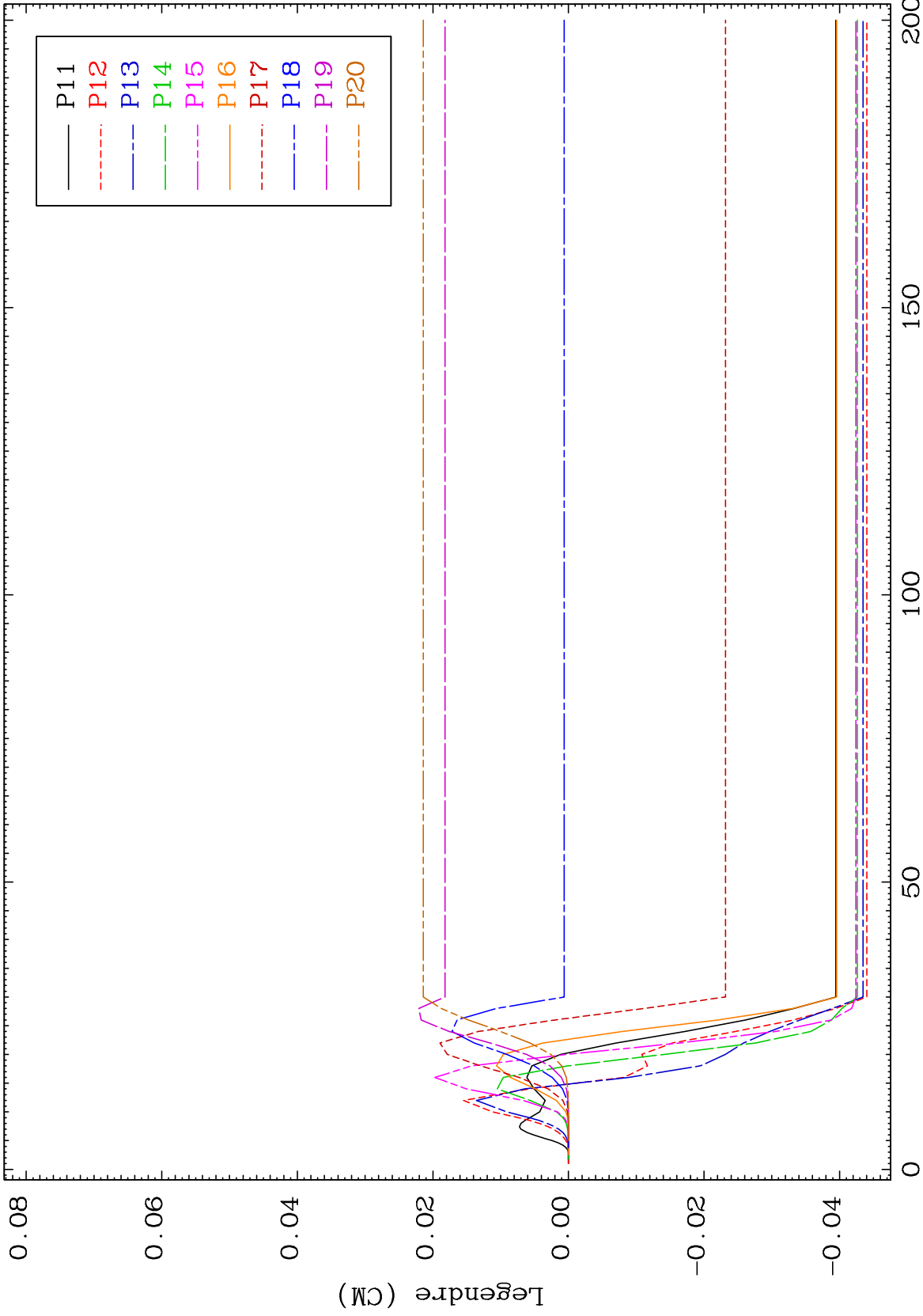
70-Yb-170



MAT 7031

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

70-Yb-170



21

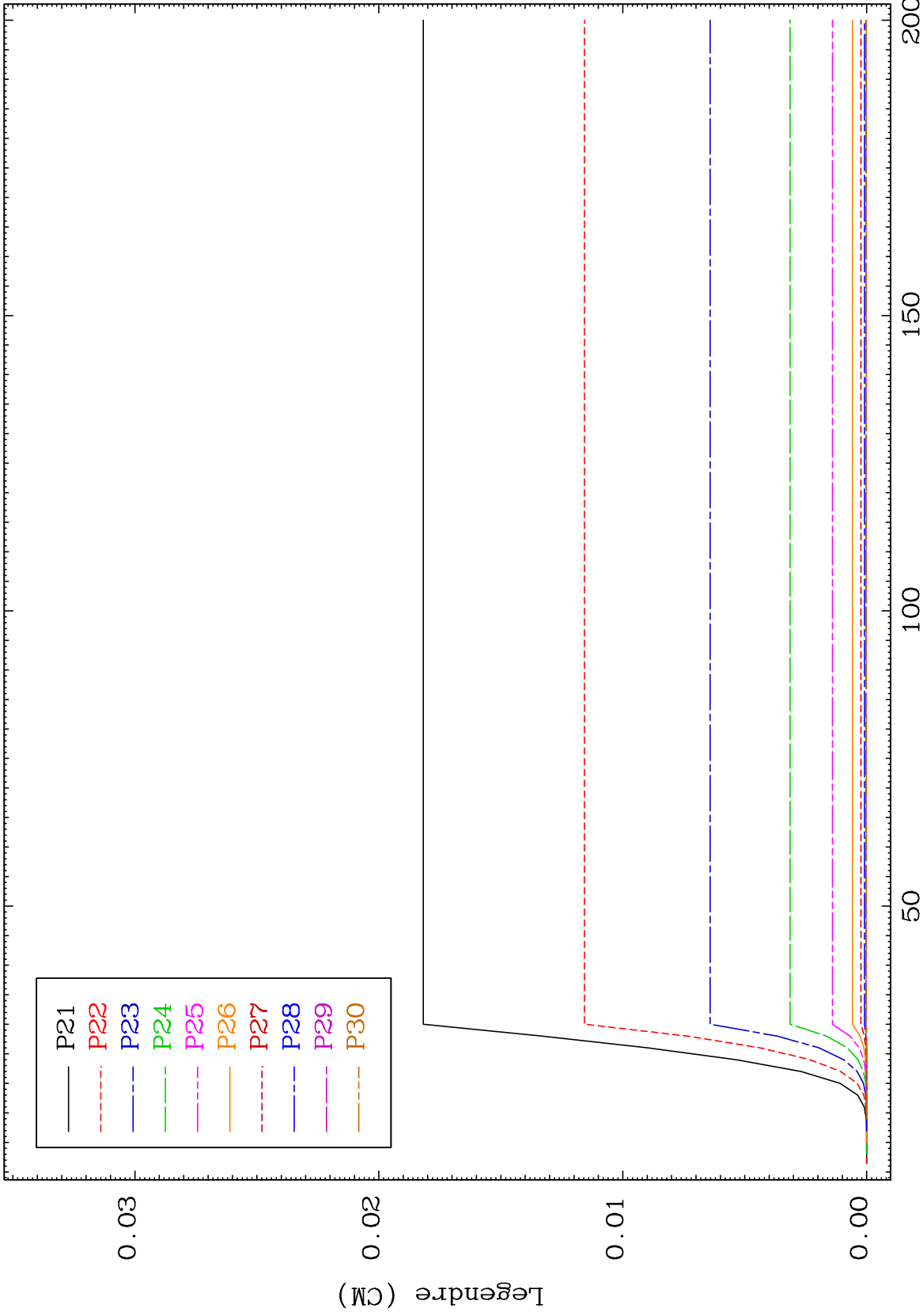
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



22

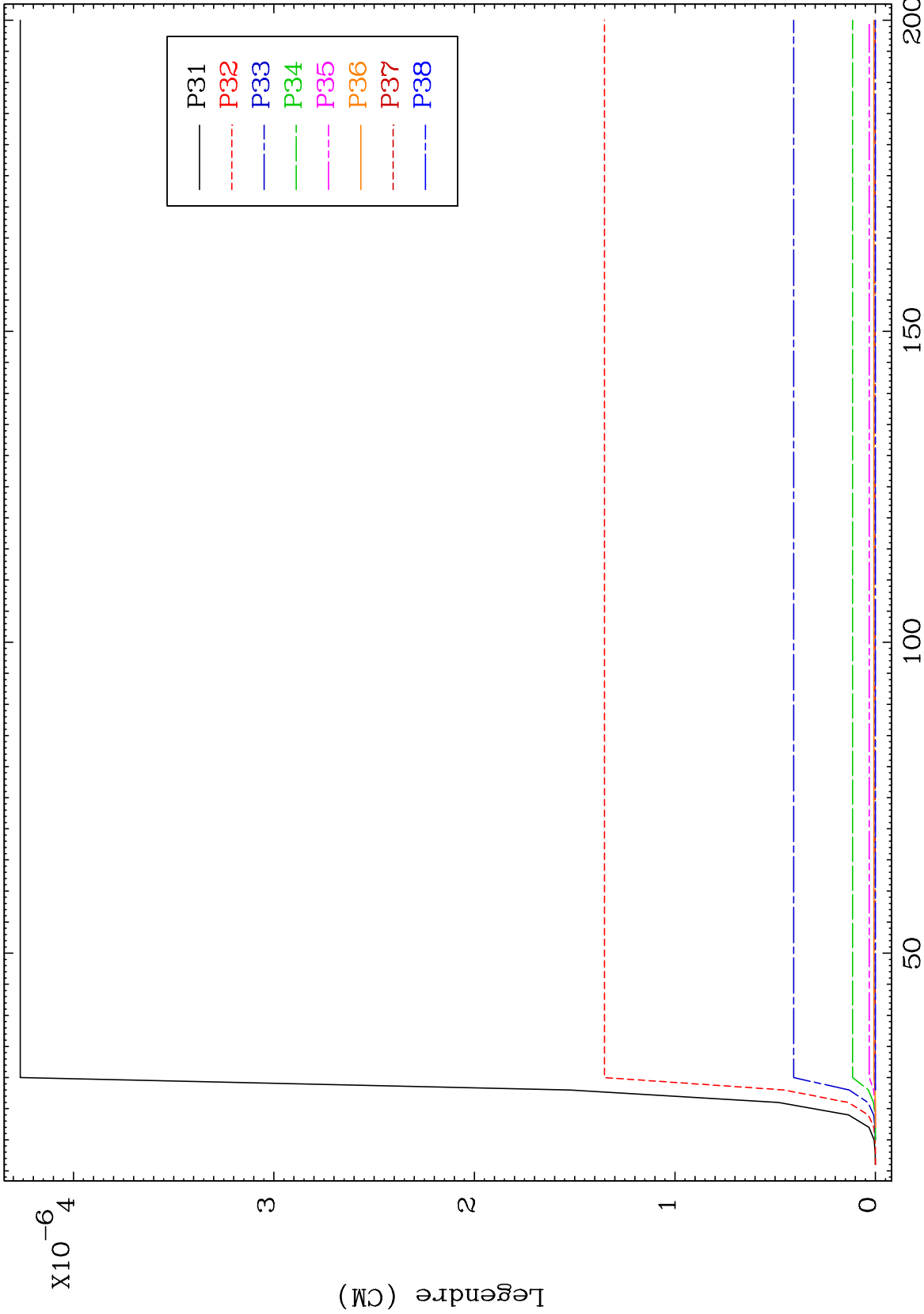
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



23

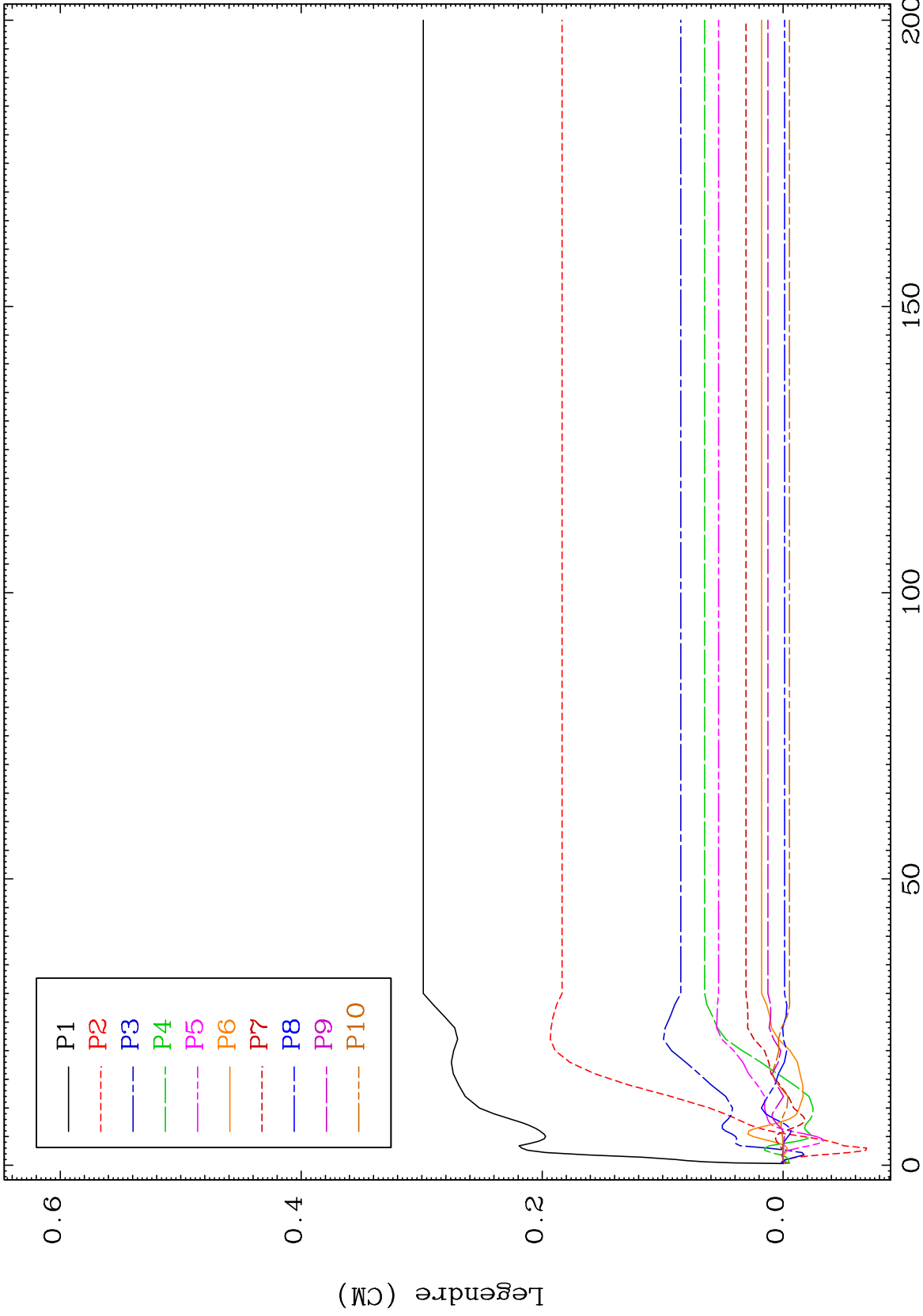
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

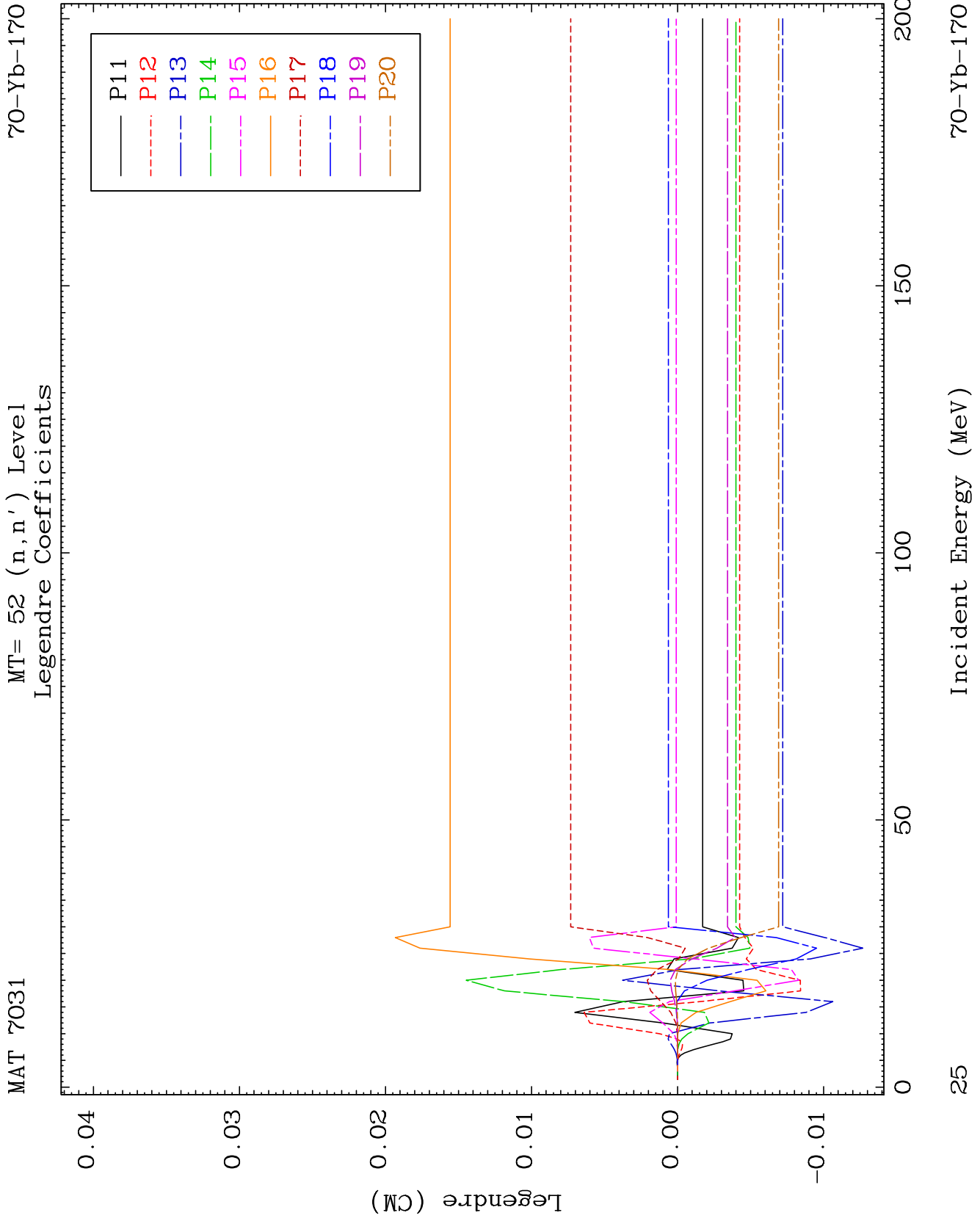
70-Yb-170



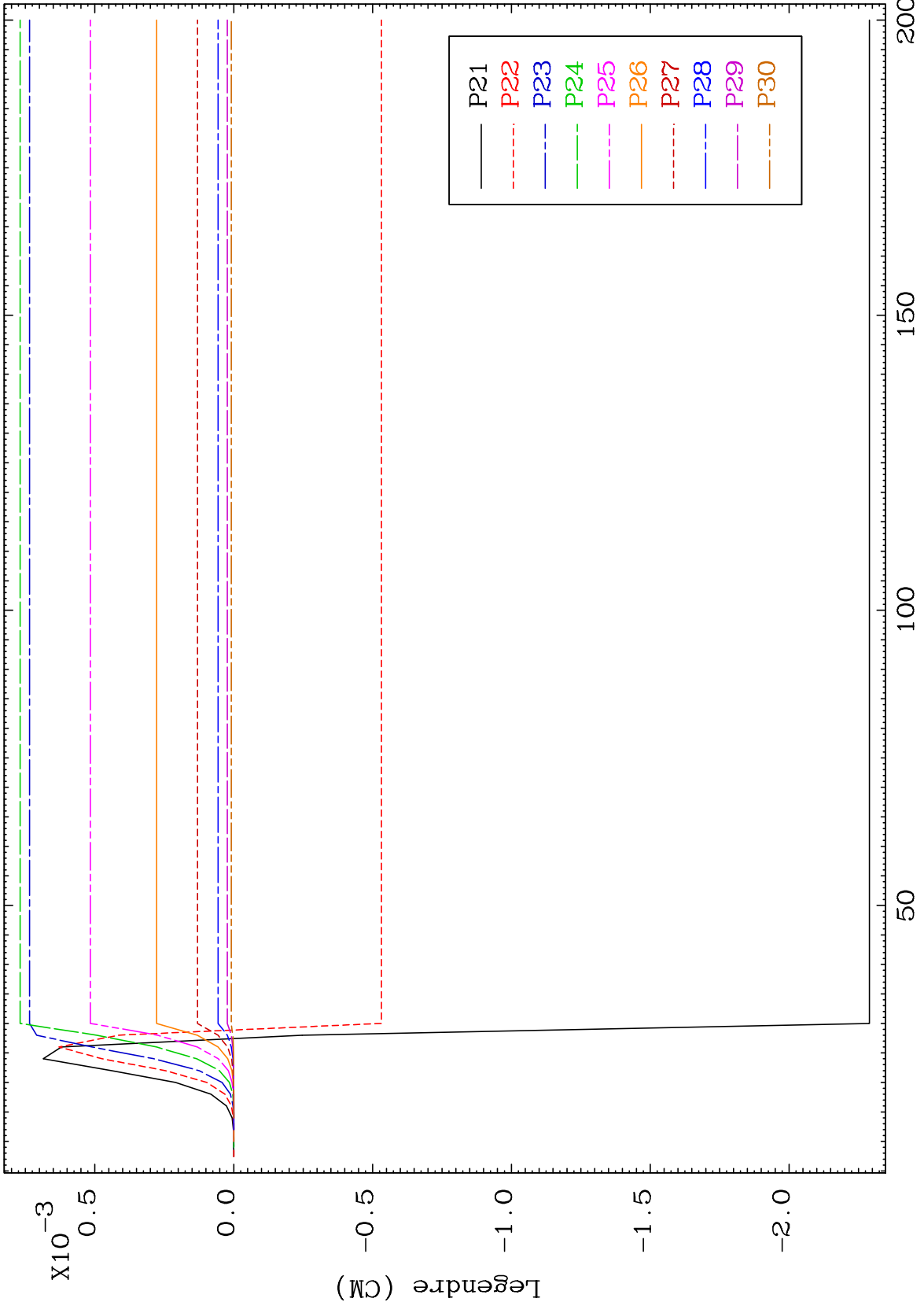
24

Incident Energy (MeV)

70-Yb-170



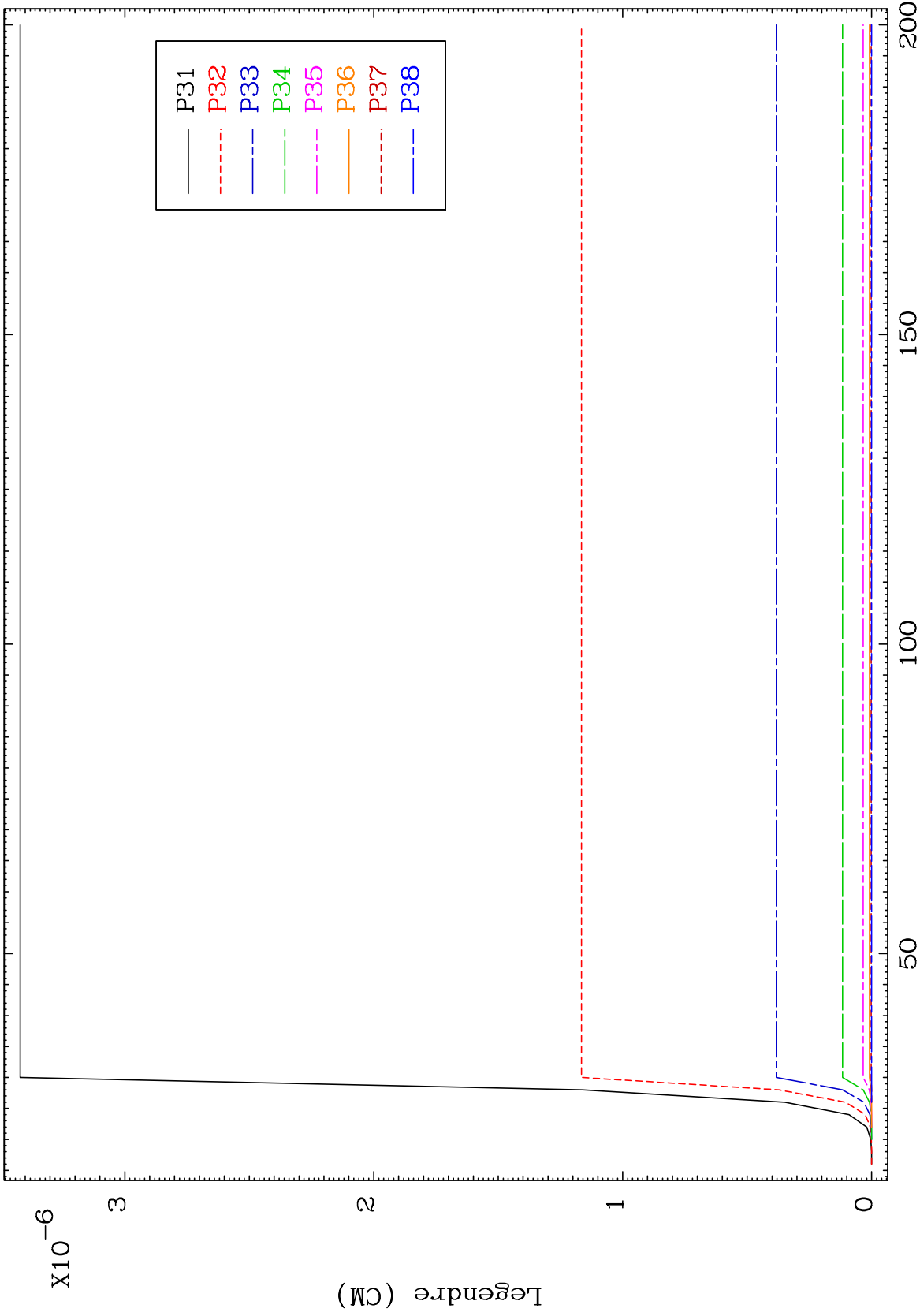
MAT 7031 MT= 52 (n,n') Level Legendre Coefficients 70-Yb-170



MAT 7031

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

70-Yb-170



27

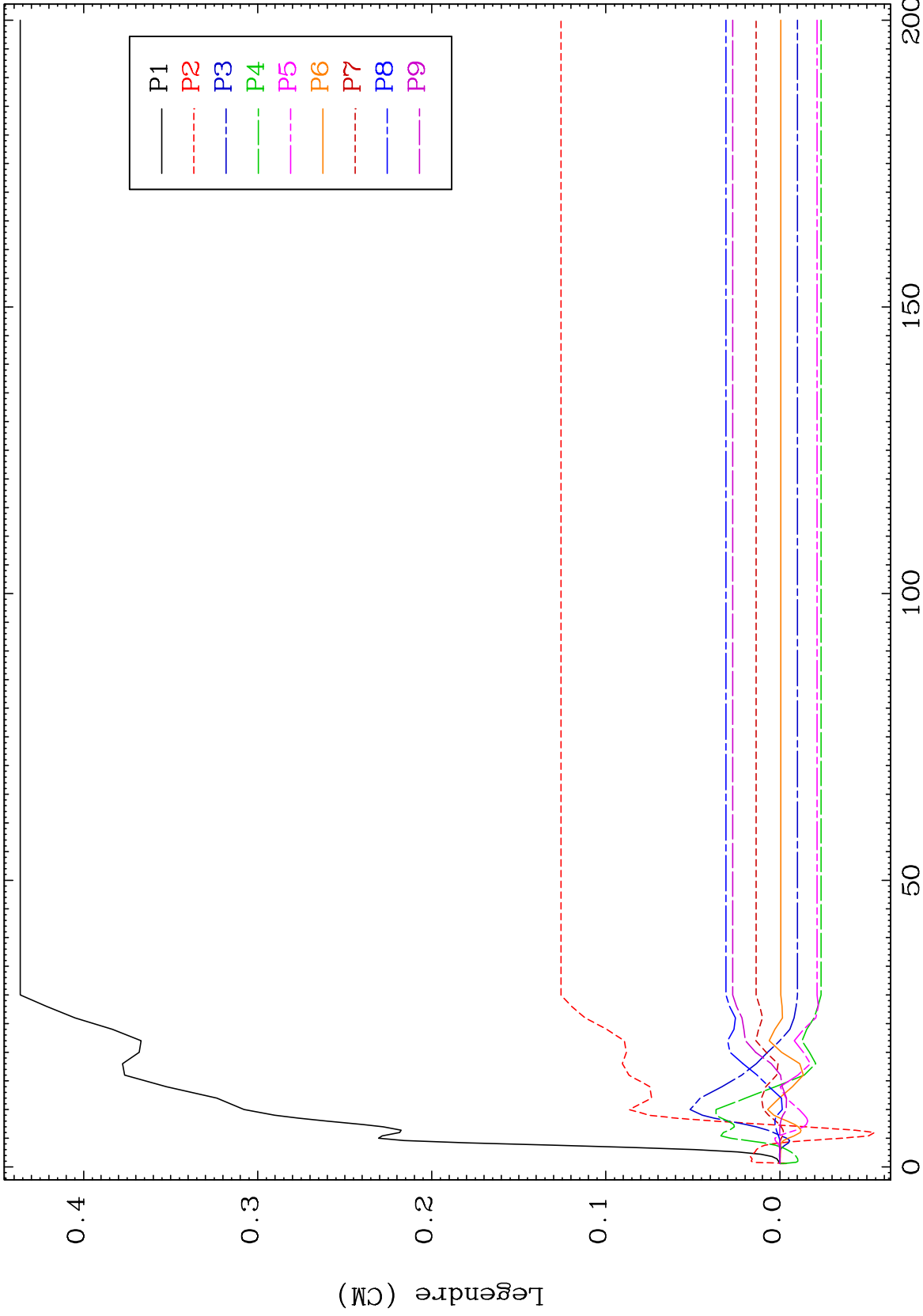
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



28

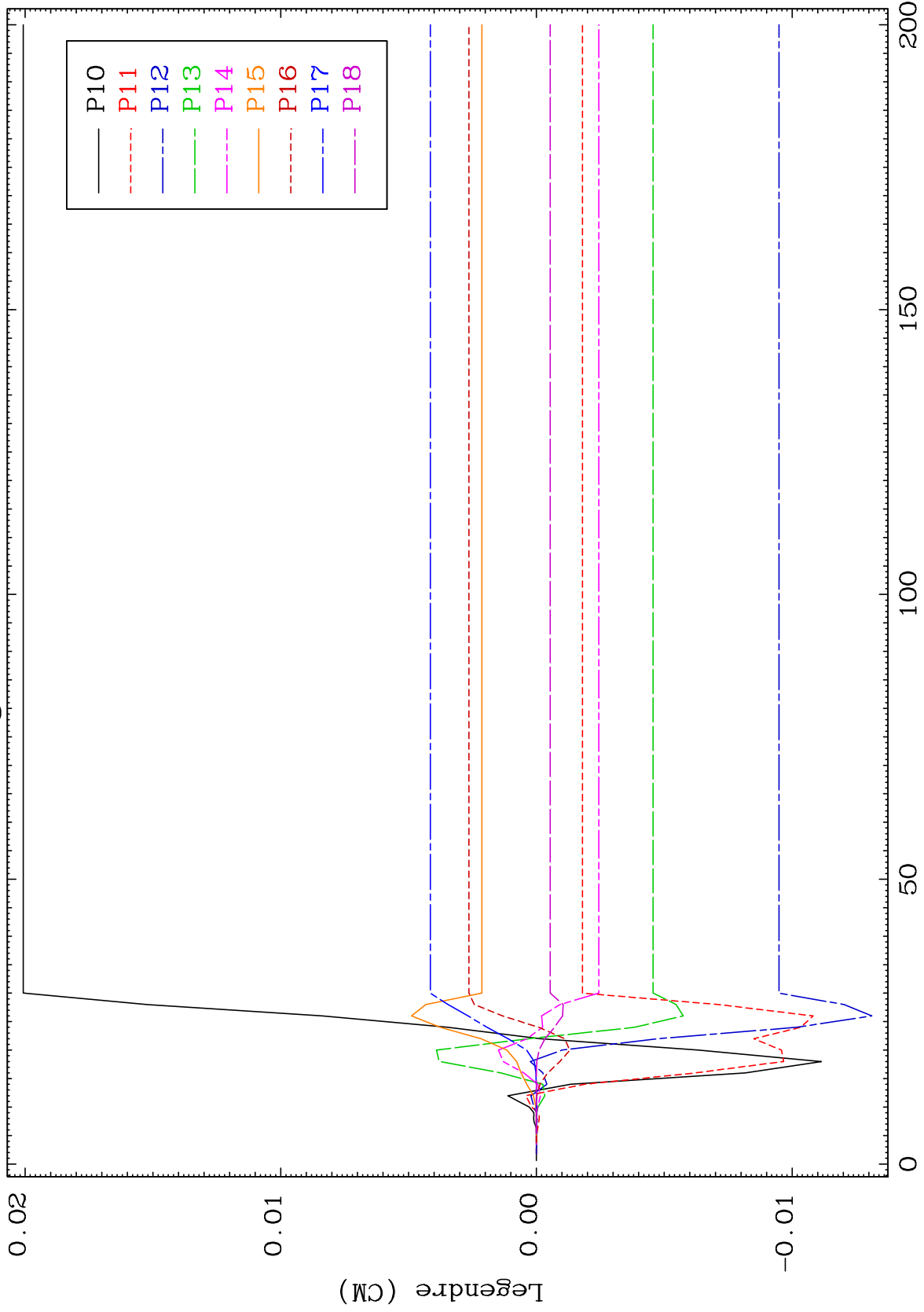
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



29

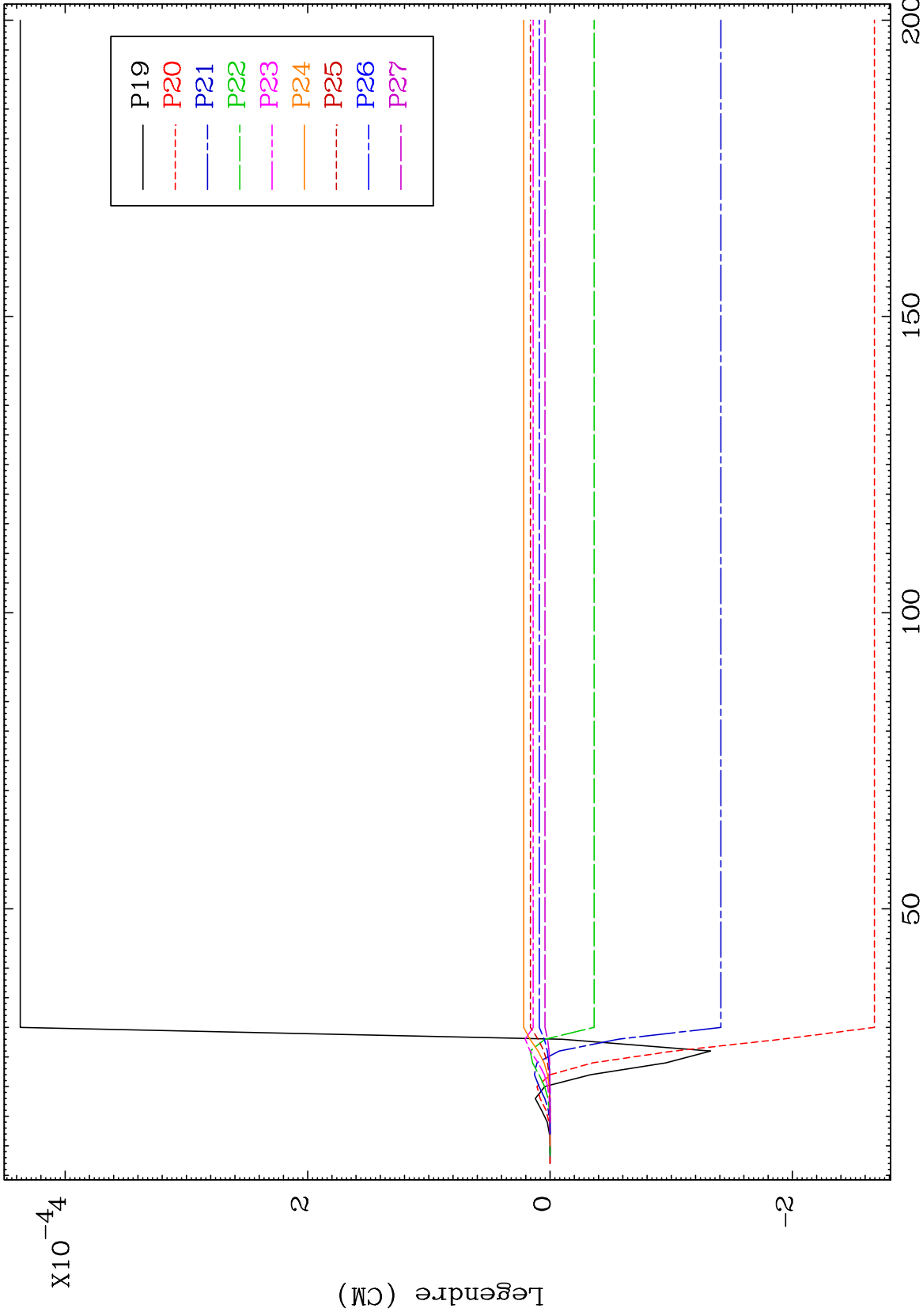
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



30

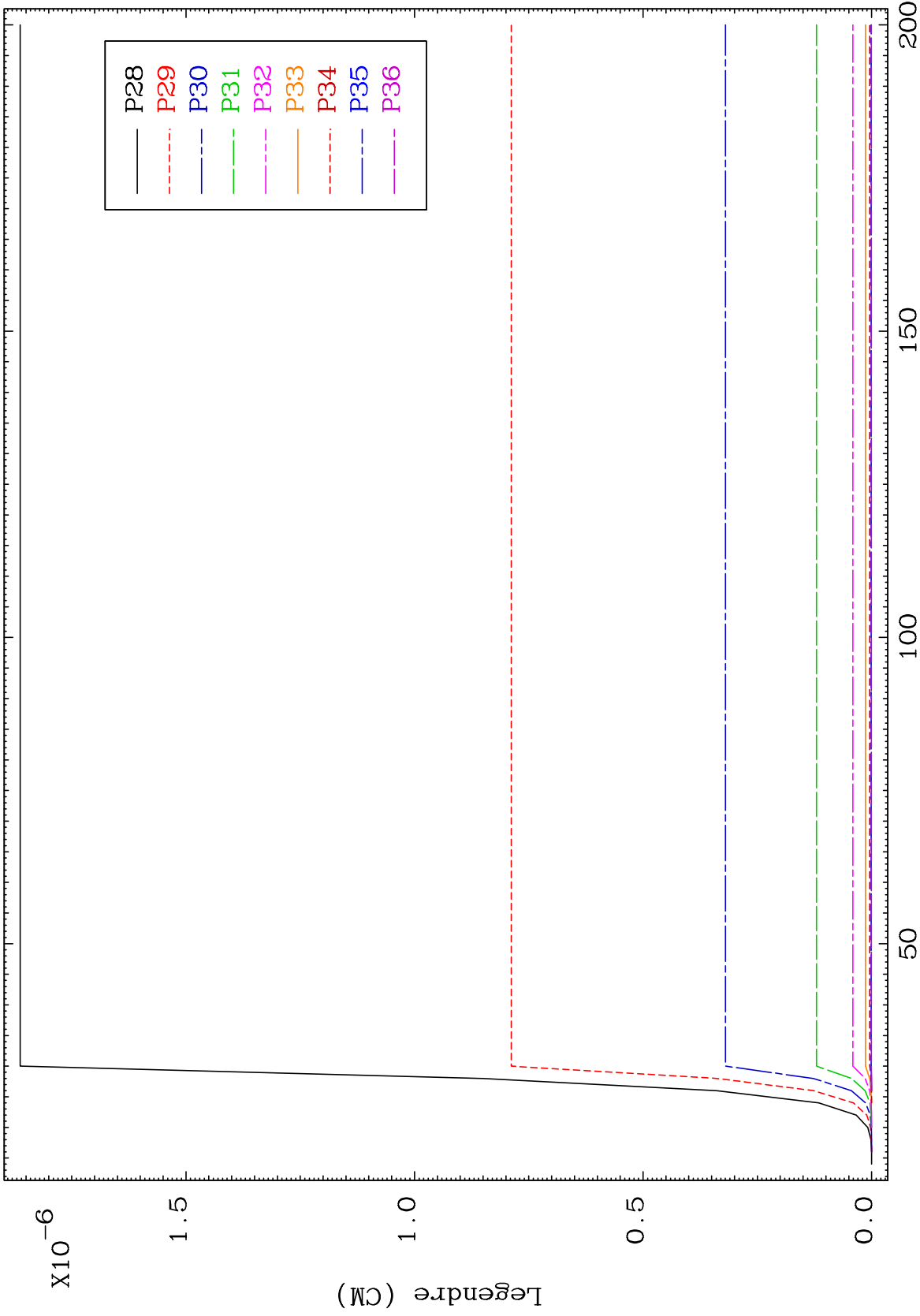
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



31

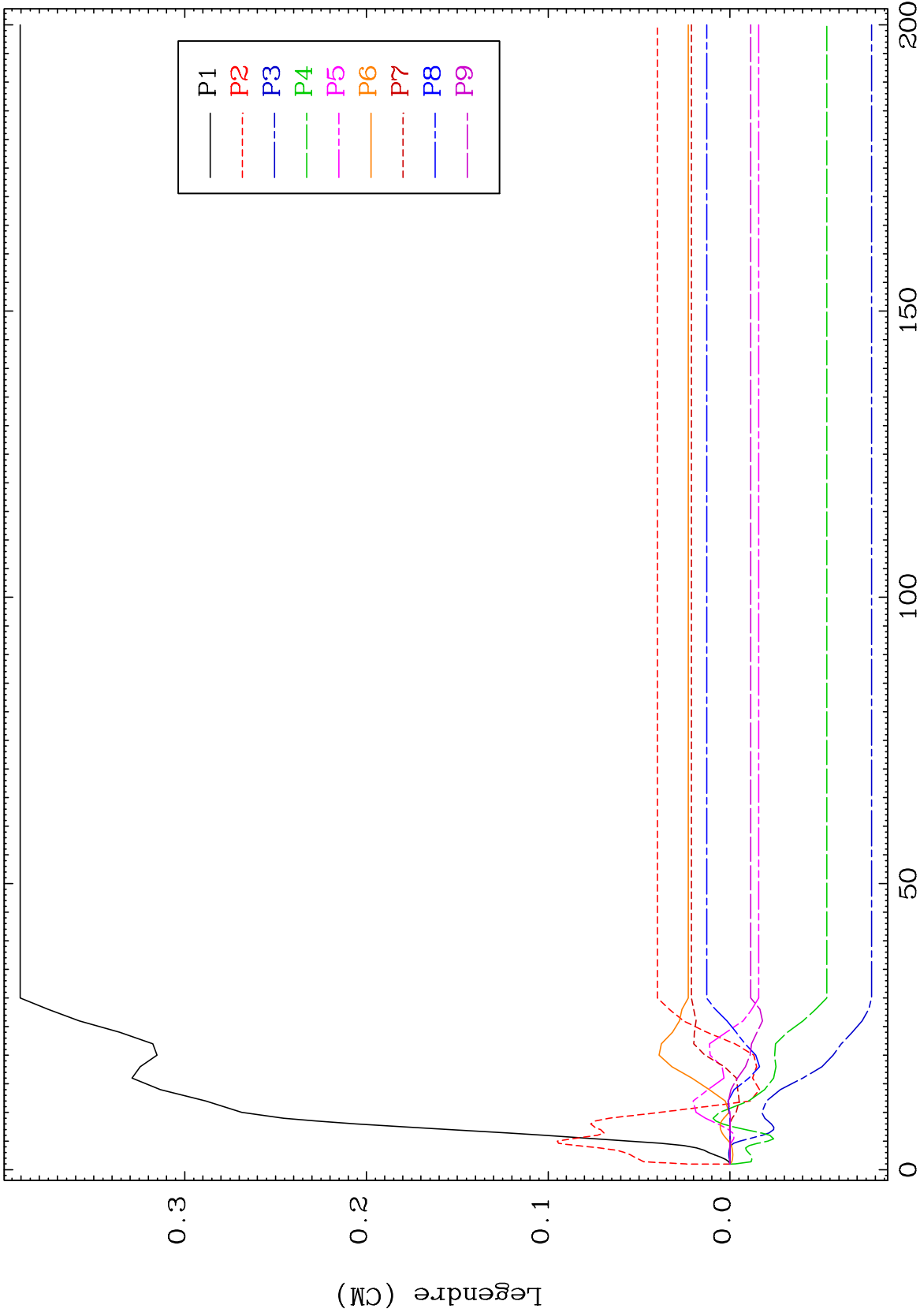
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170

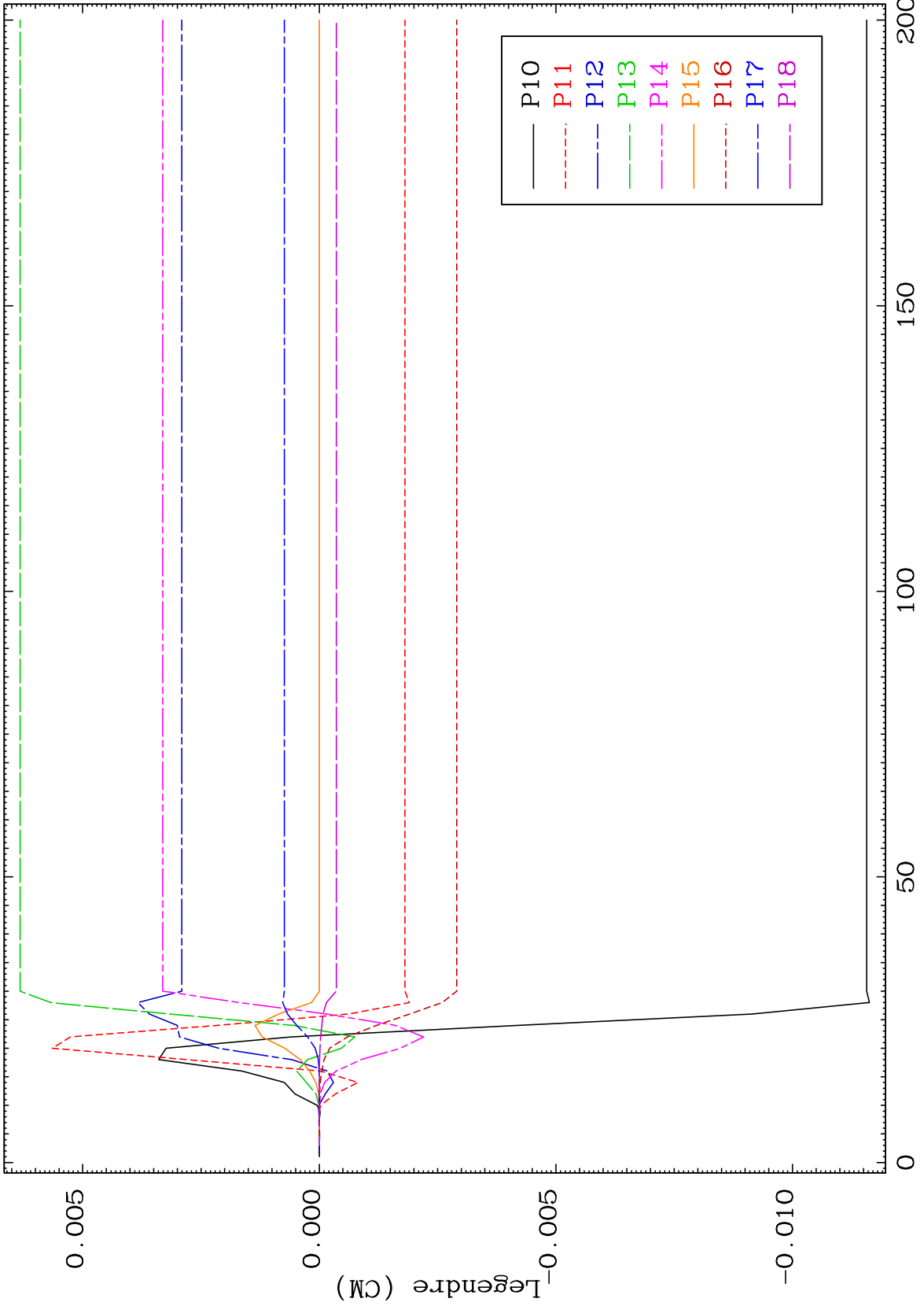


32

Incident Energy (MeV)

70-Yb-170

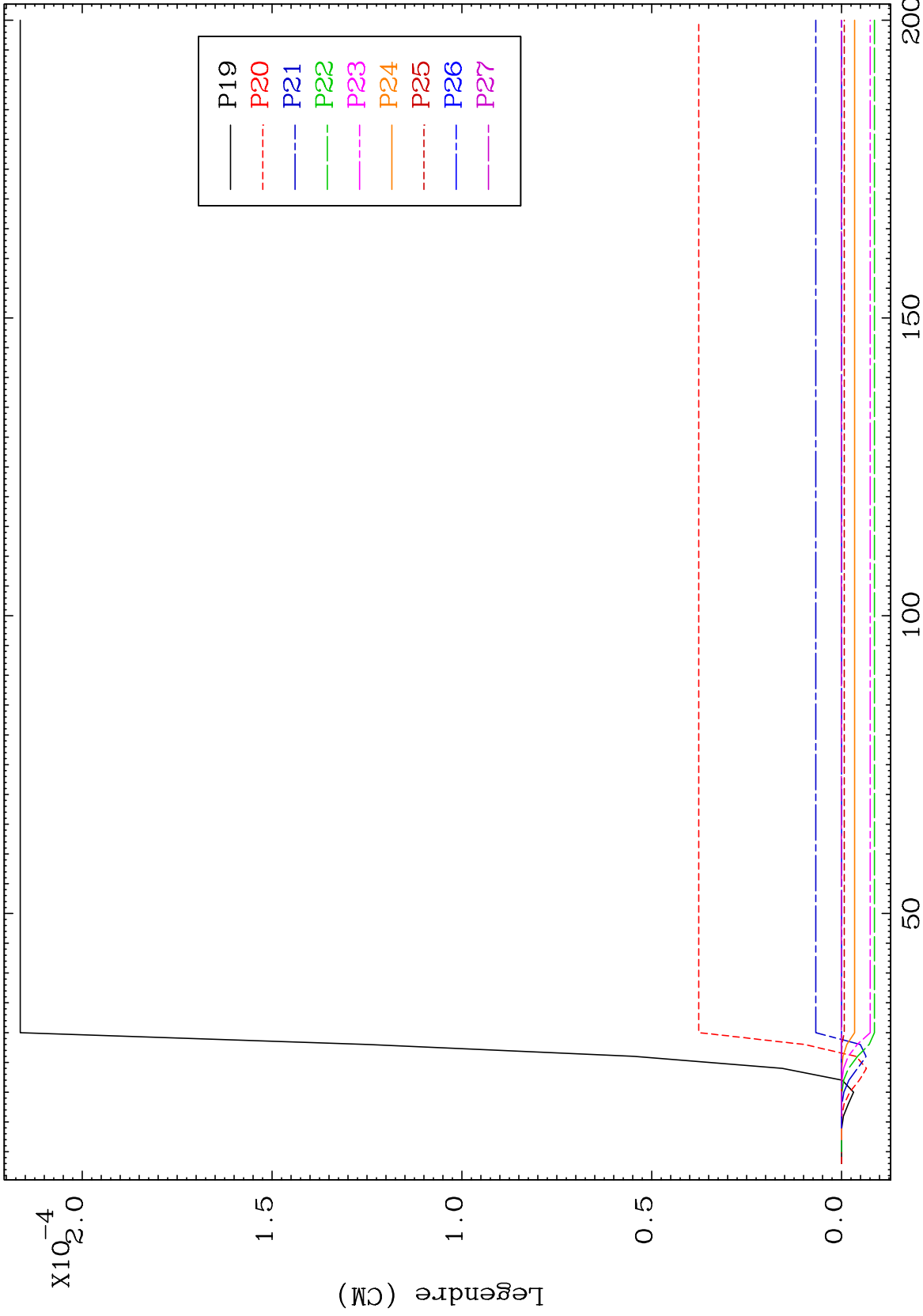
MAT 7031 MT= 54 (n,n') Level Legendre Coefficients 70-Yb-170



MAT 7031

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

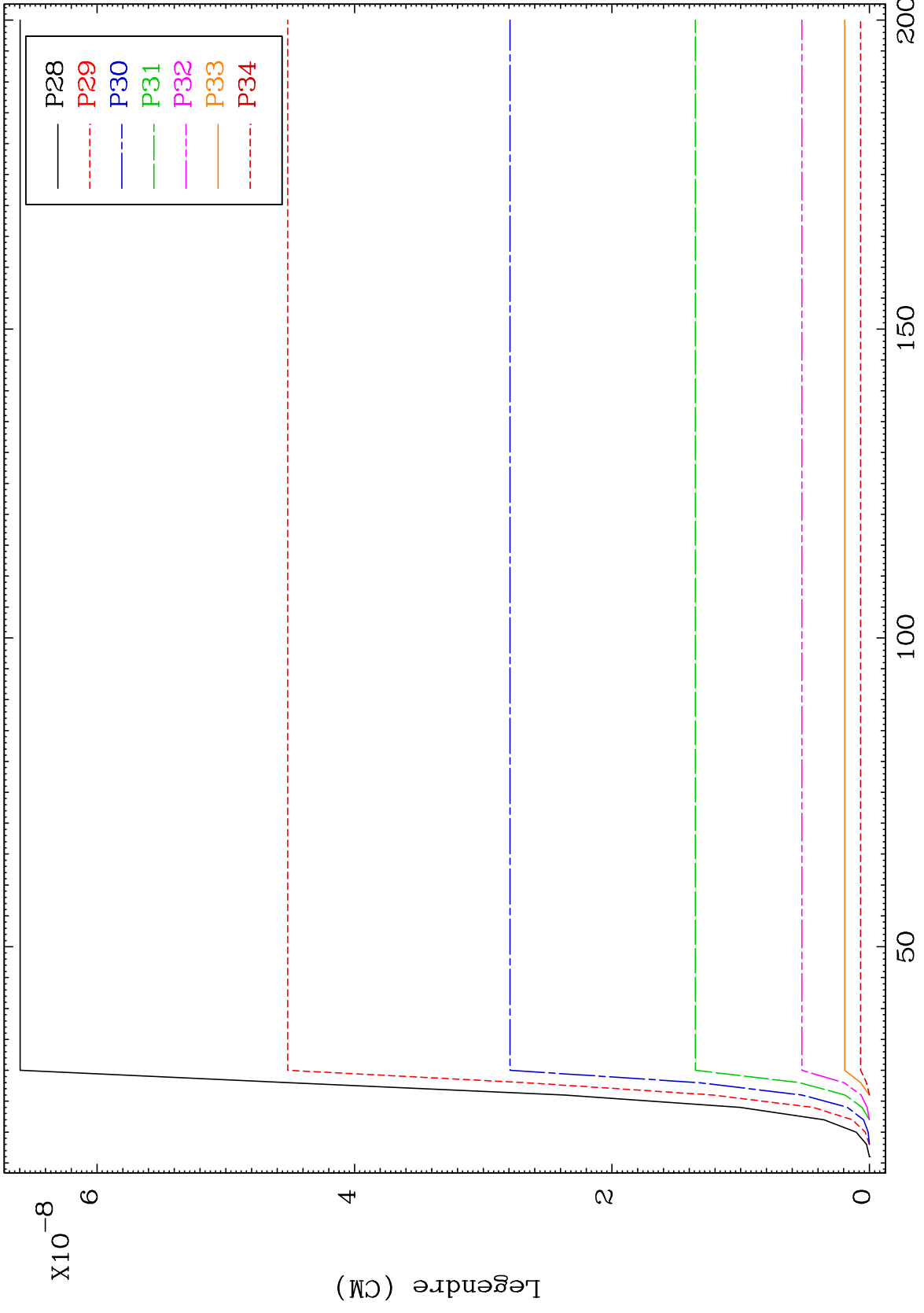
70-Yb-170



34

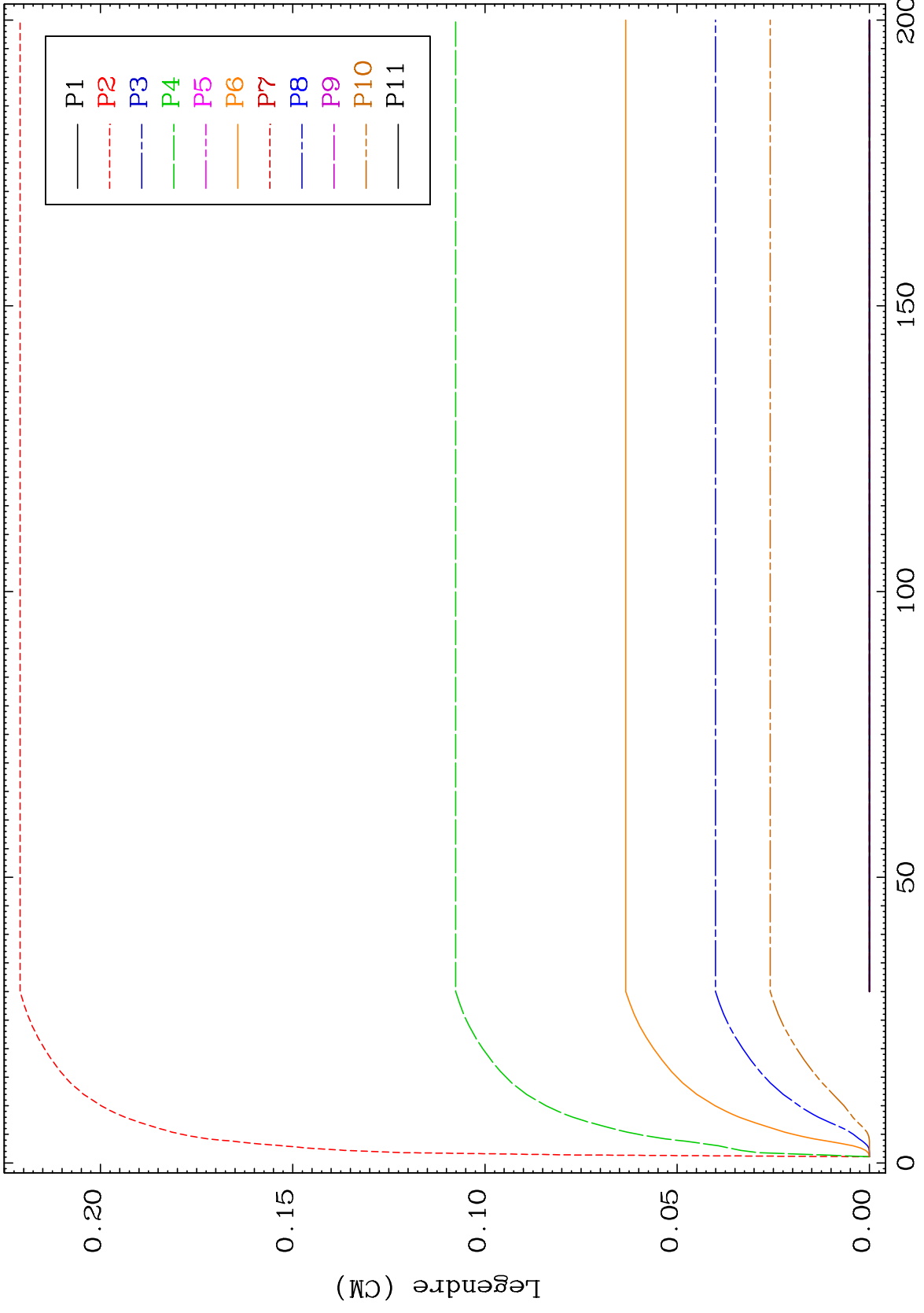
70-Yb-170

MAT 7031 MT= 54 (n,n') Level Legendre Coefficients 70-Yb-170



35 50 100 150 200 70-Yb-170

MAT 7031 MT= 55 (n,n') Level Legendre Coefficients 70-Yb-170

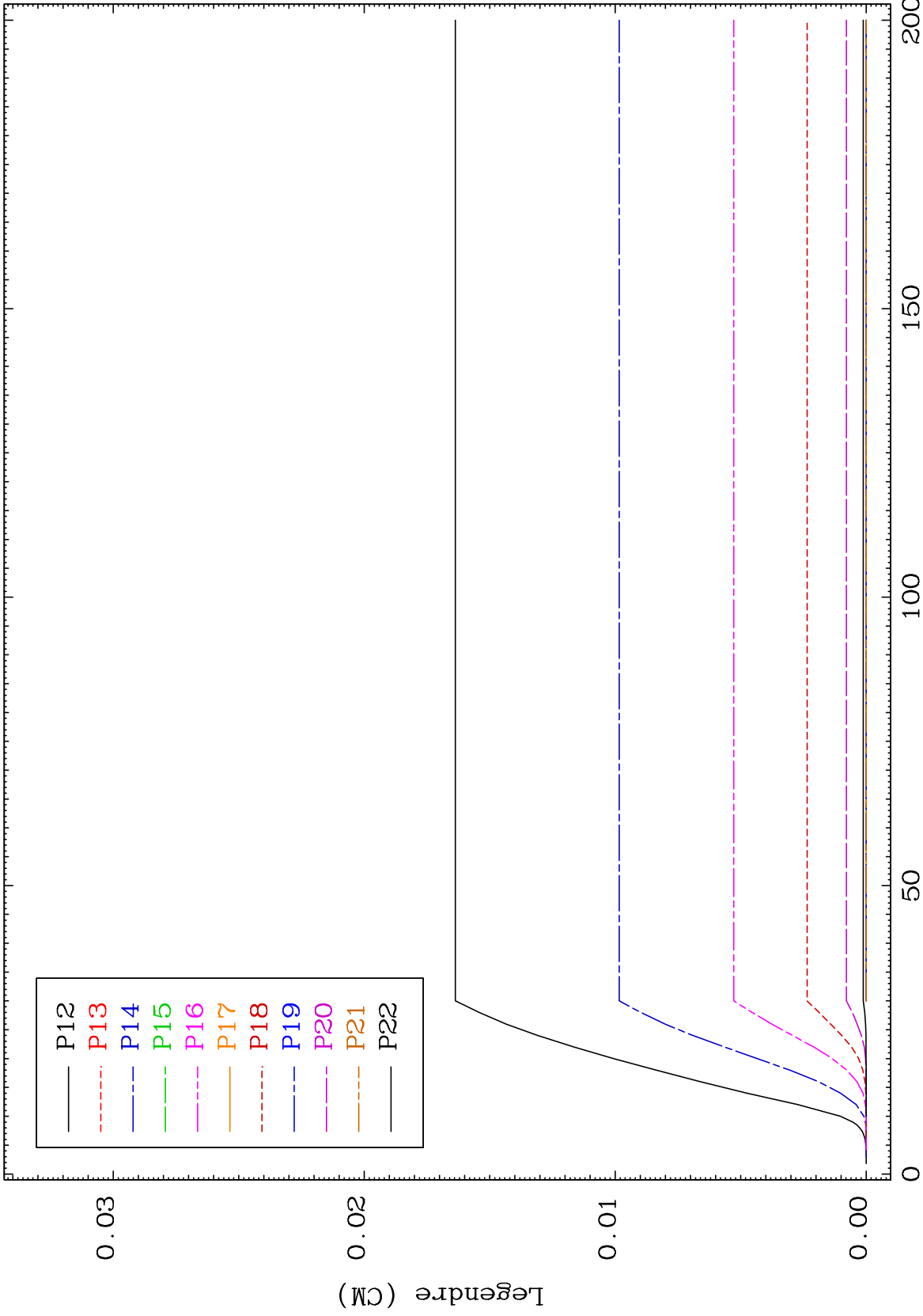


36 Incident Energy (MeV) 70-Yb-170

MAT 7031

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

70-Yb-170

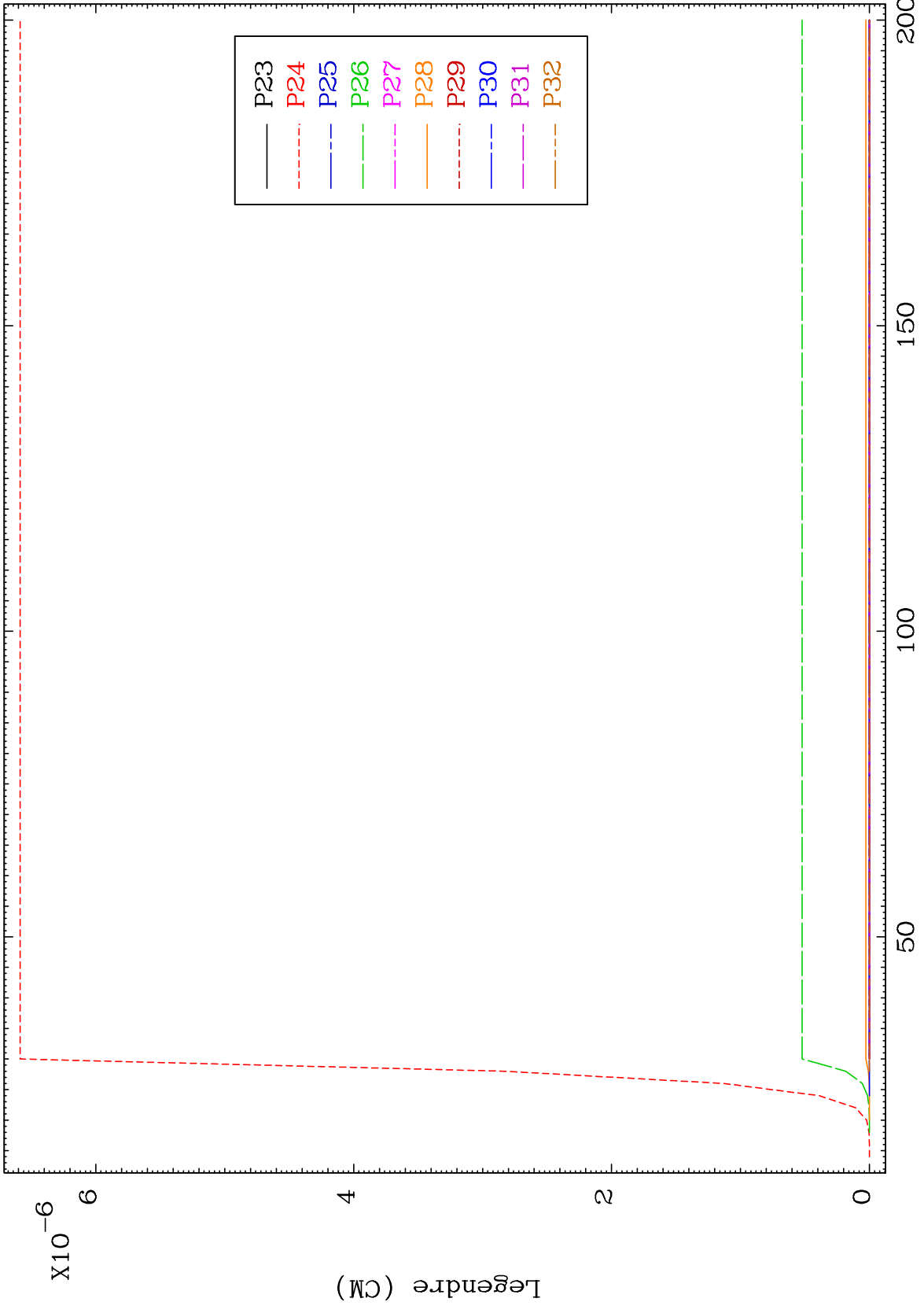


37

Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 55 (n,n') Level Legendre Coefficients 70-Yb-170

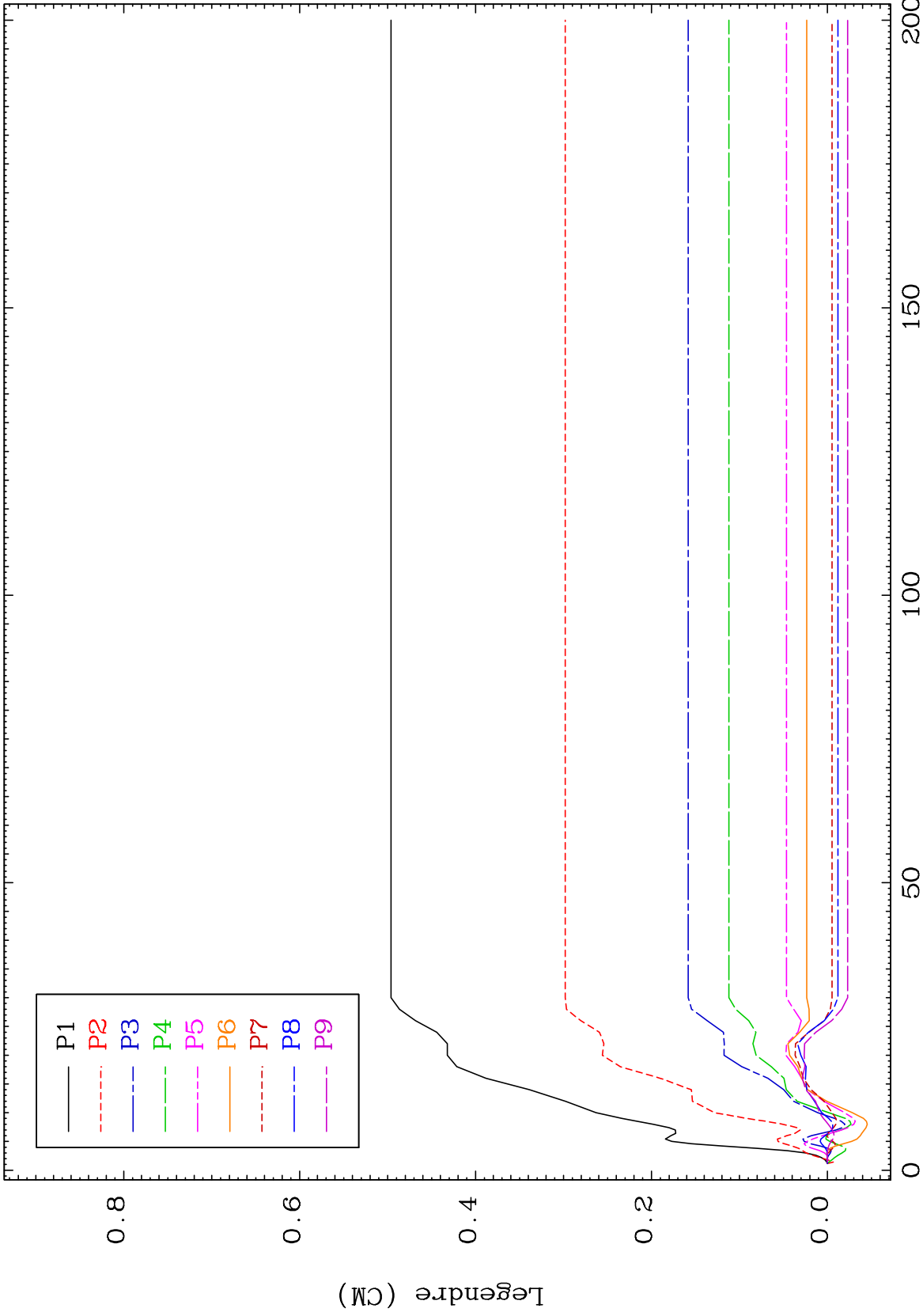


38 70-Yb-170

MAT 7031

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

70-Yb-170

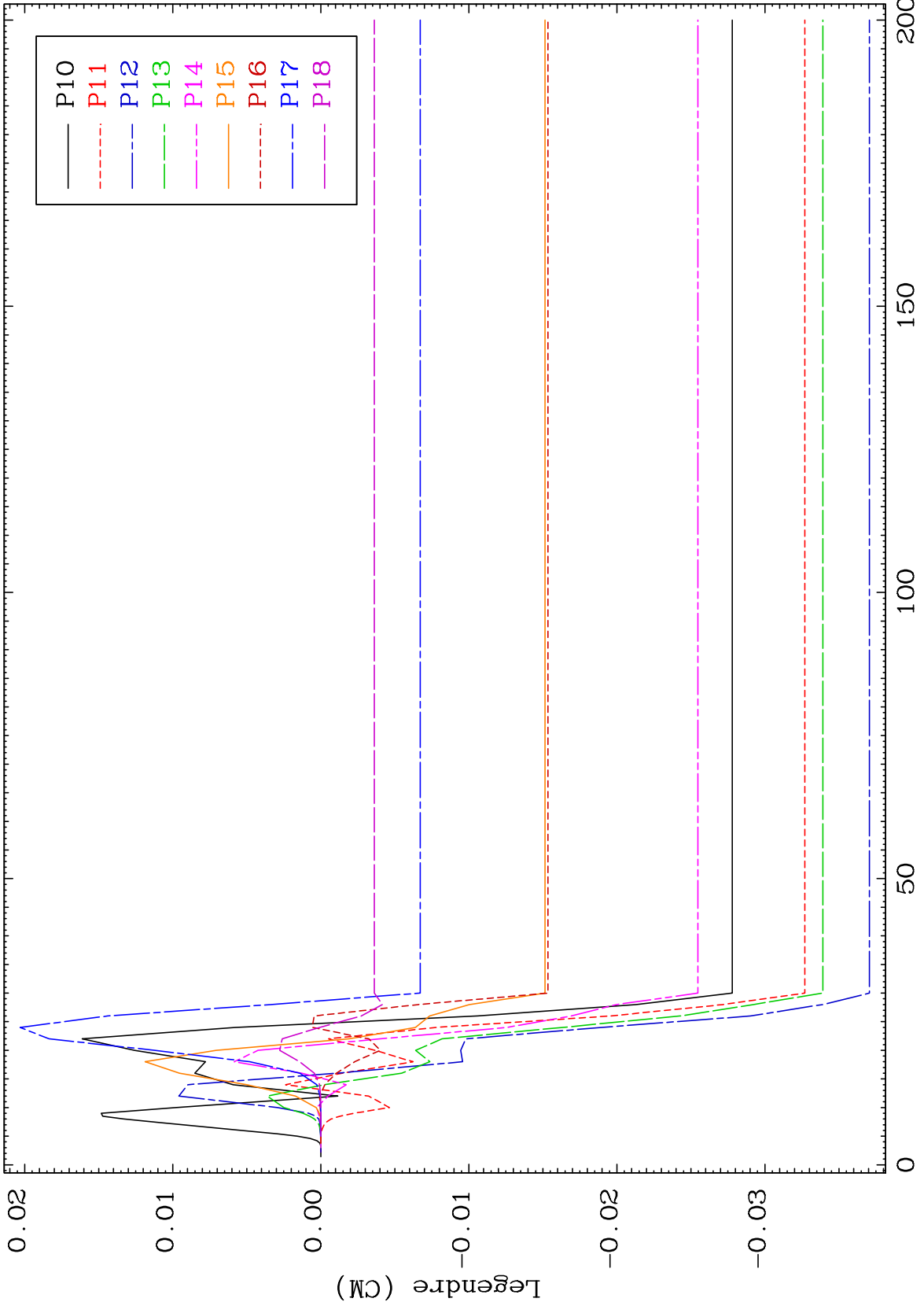


39

Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 56 (n,n') Level Legendre Coefficients 70-Yb-170

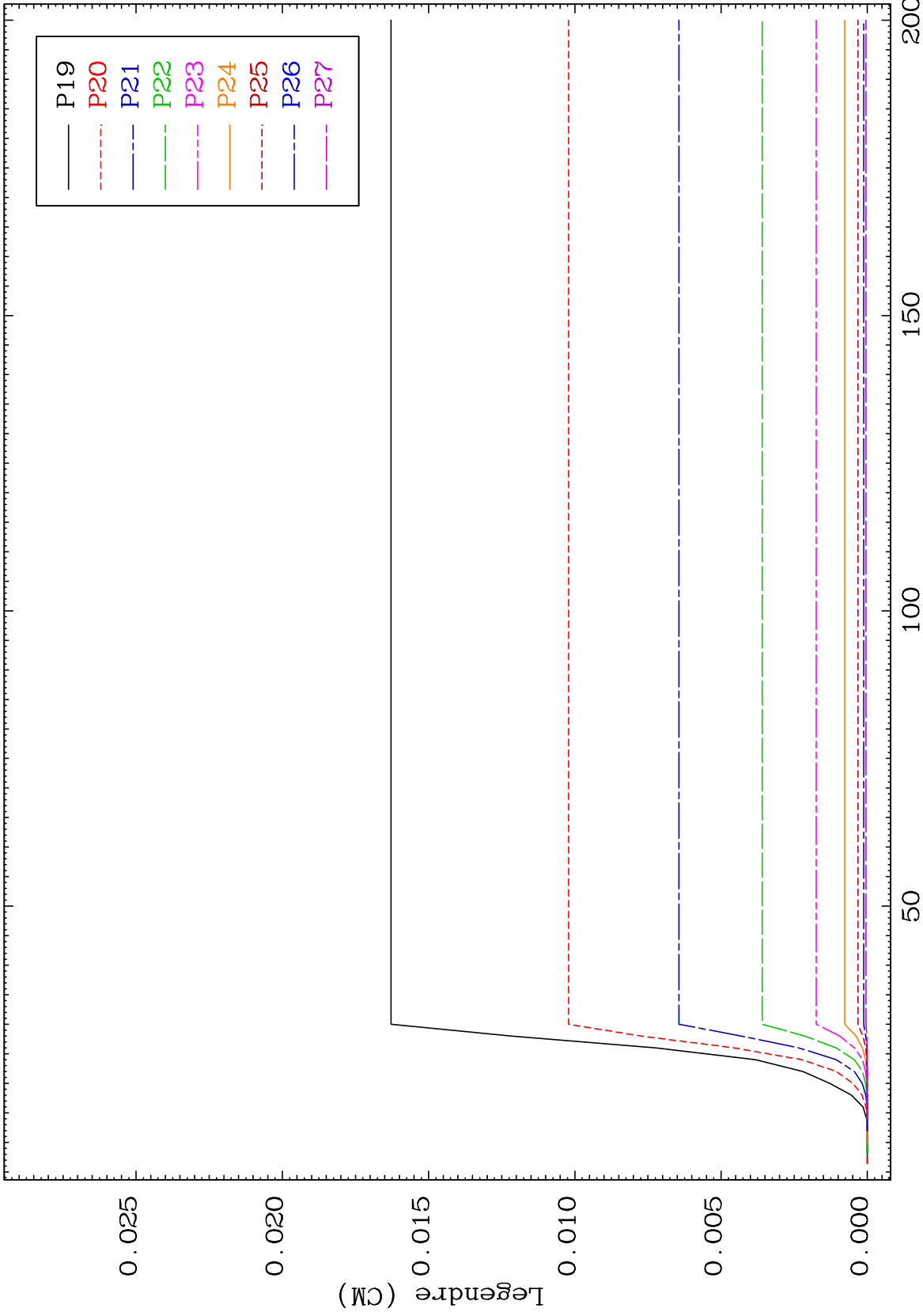


70-Yb-170 Incident Energy (MeV)

MAT 7031

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

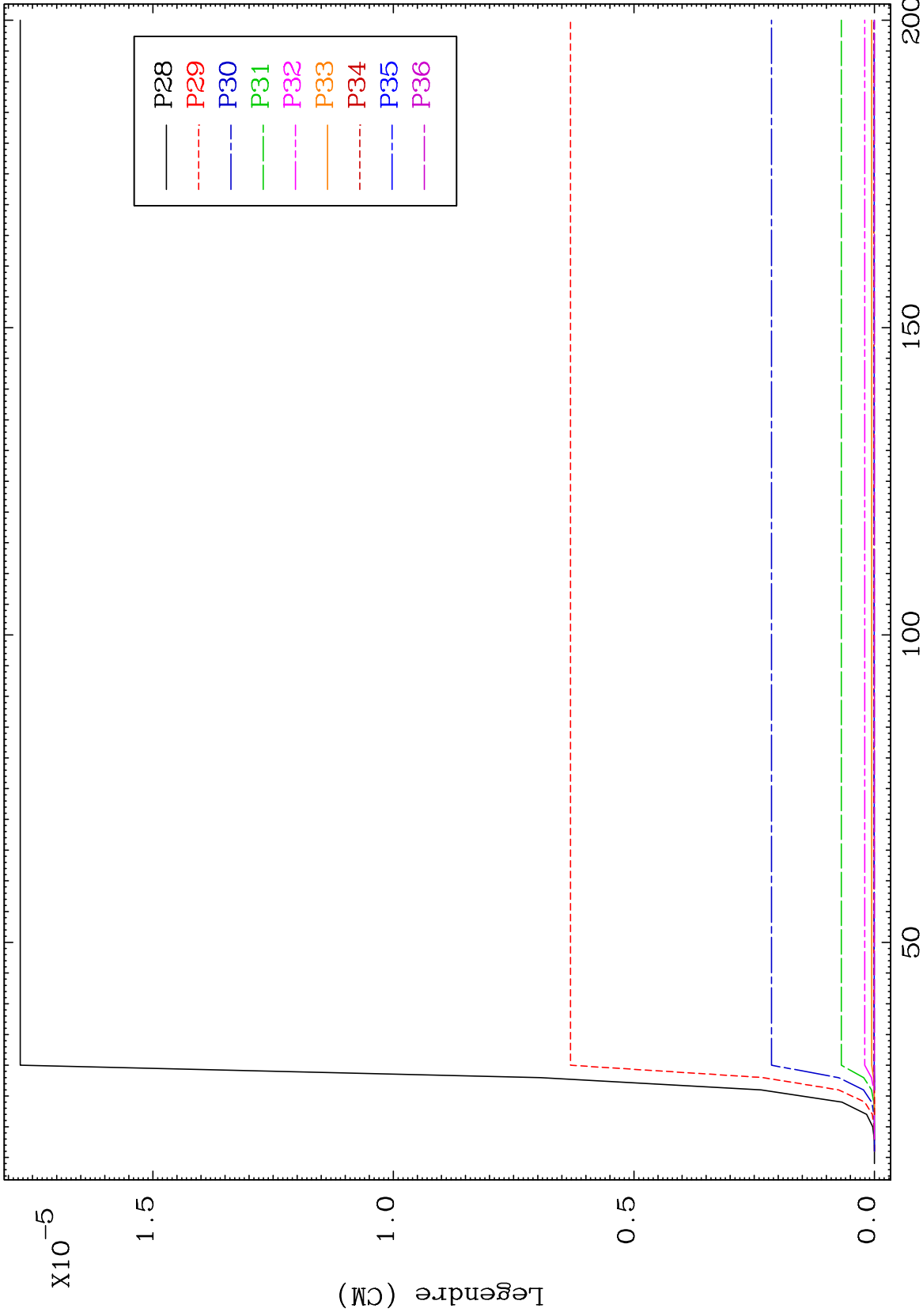
70-Yb-170



MAT 7031

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

70-Yb-170



42

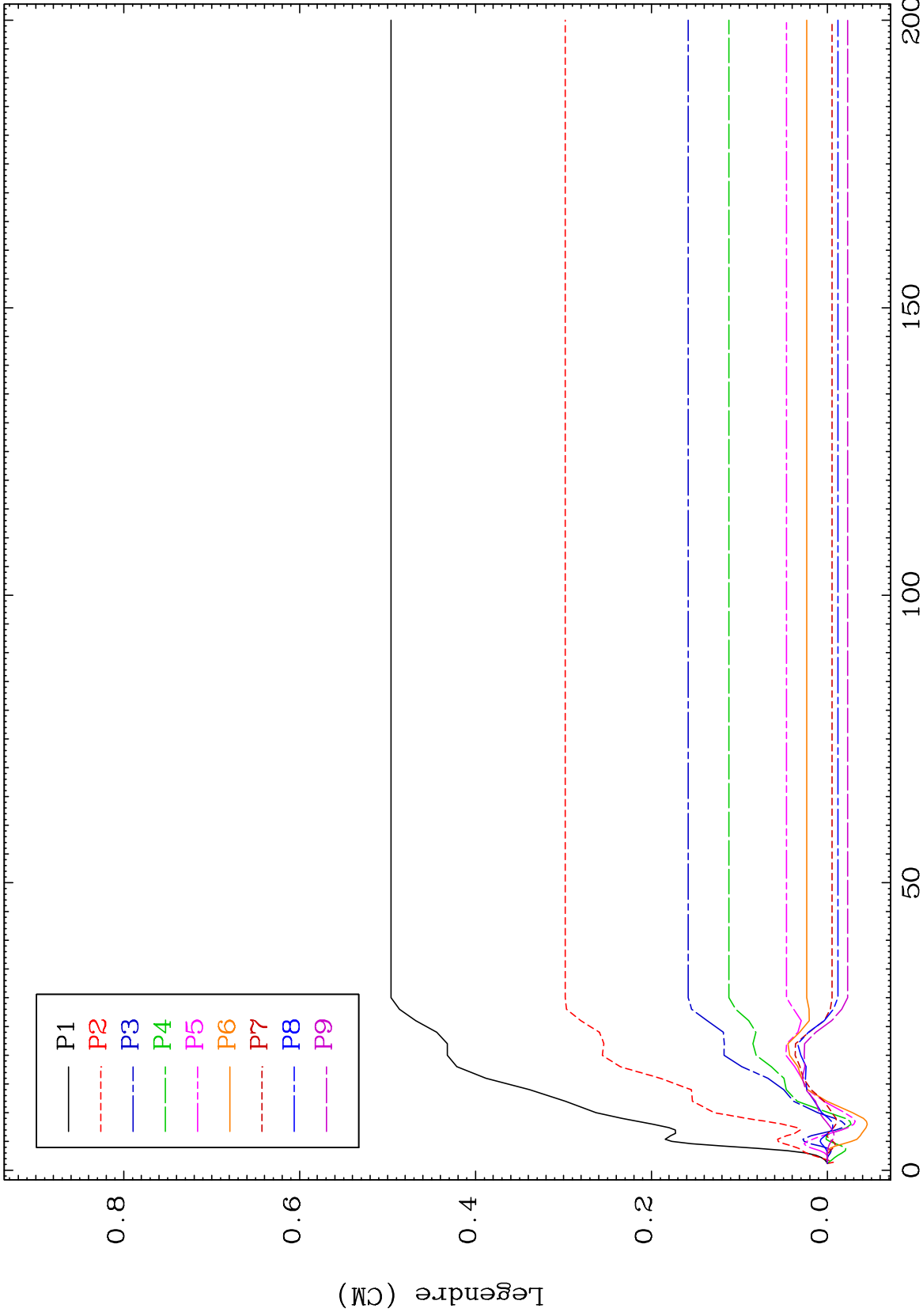
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



43

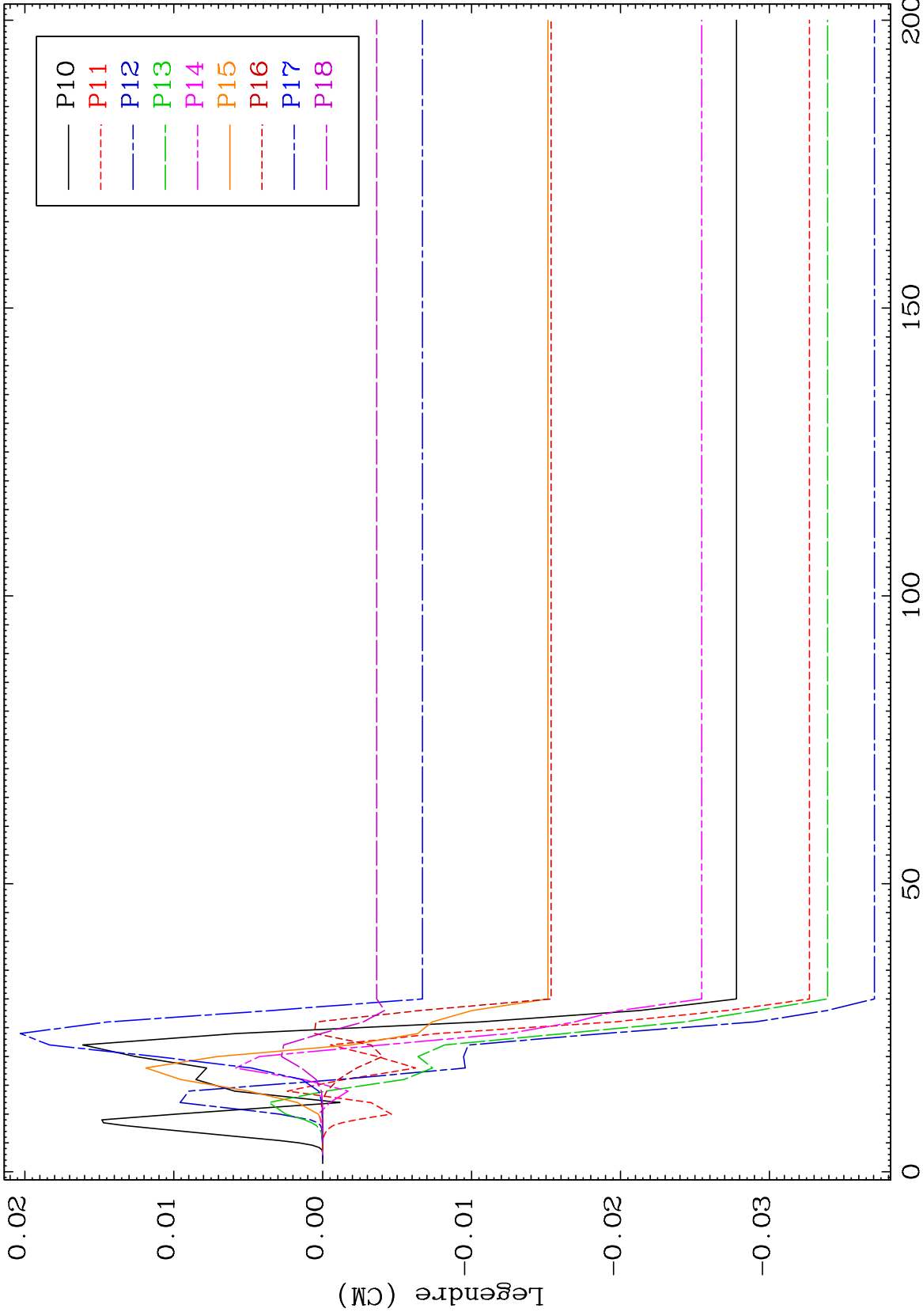
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



44

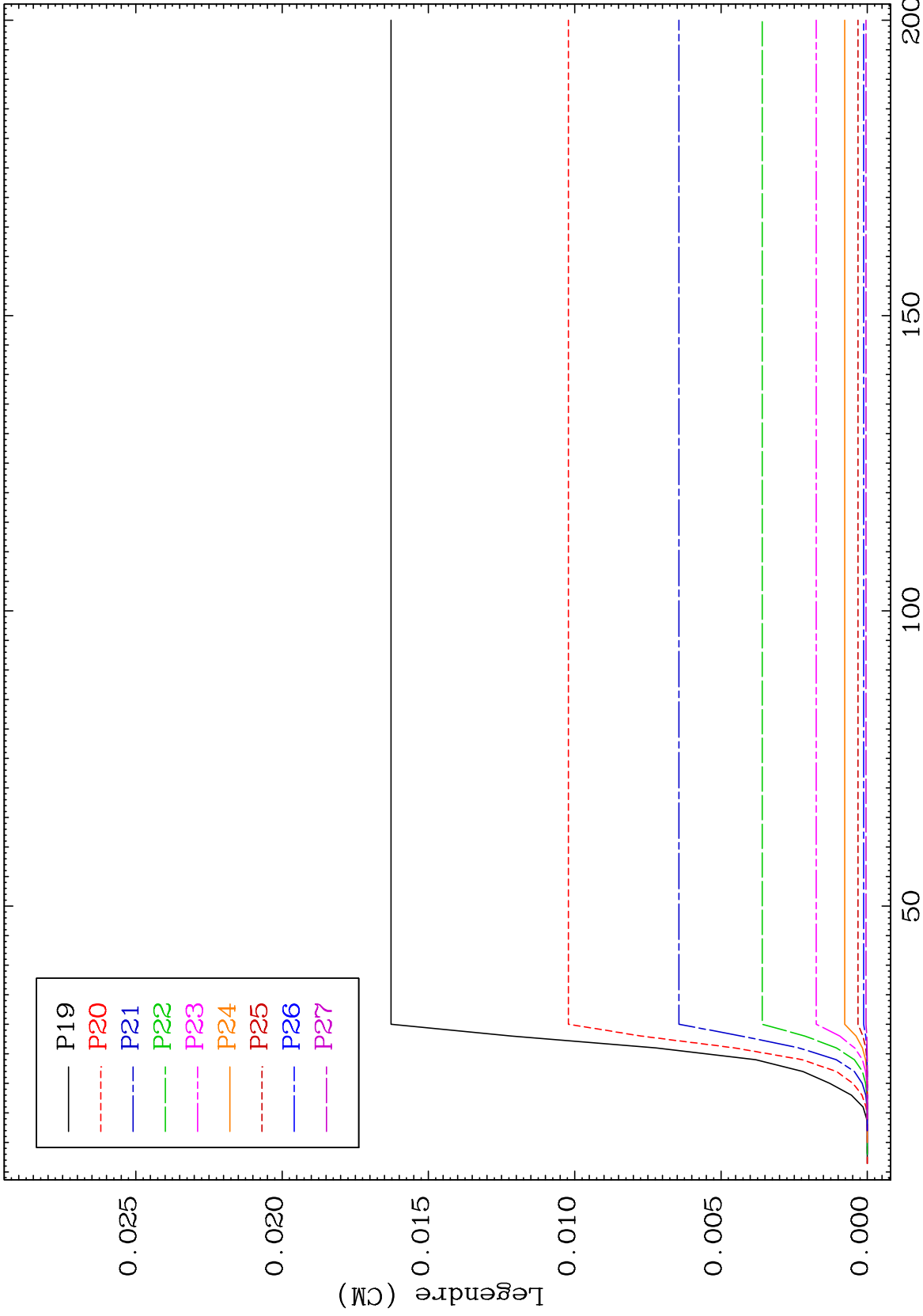
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



45

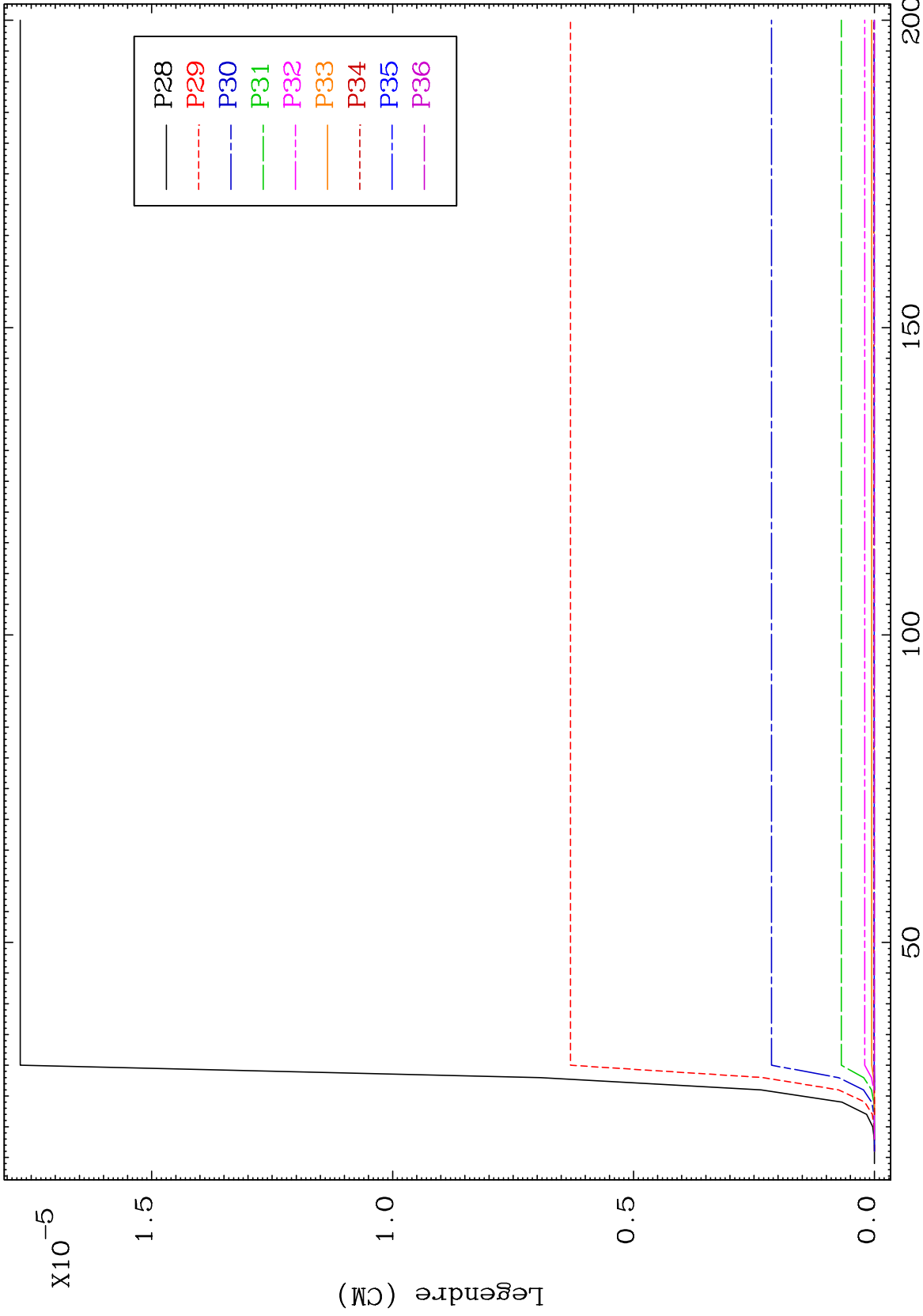
Incident Energy (MeV)

70-Yb-170

MAT 7031

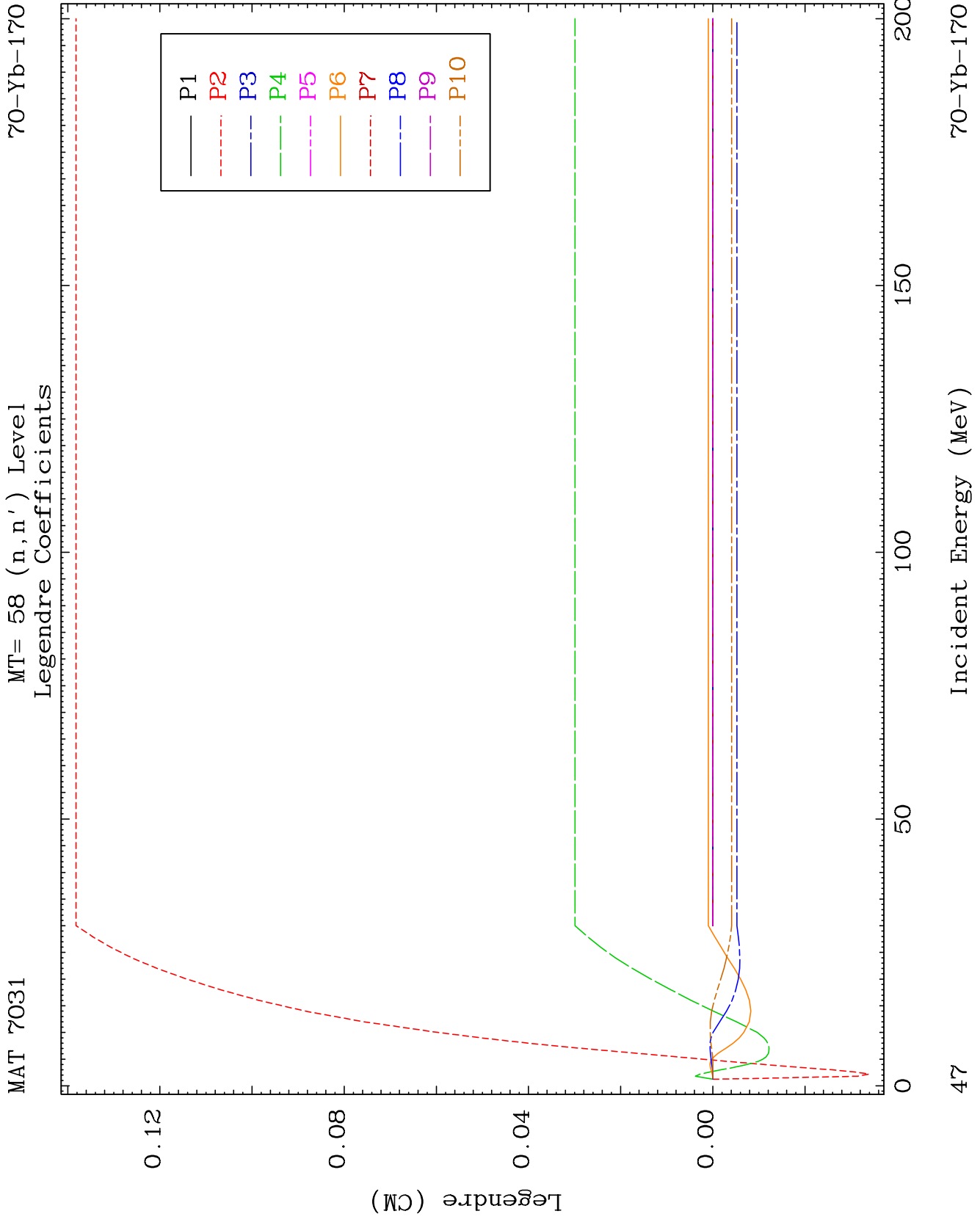
MT= 57 (n,n') Level
Legendre Coefficients

70-Yb-170

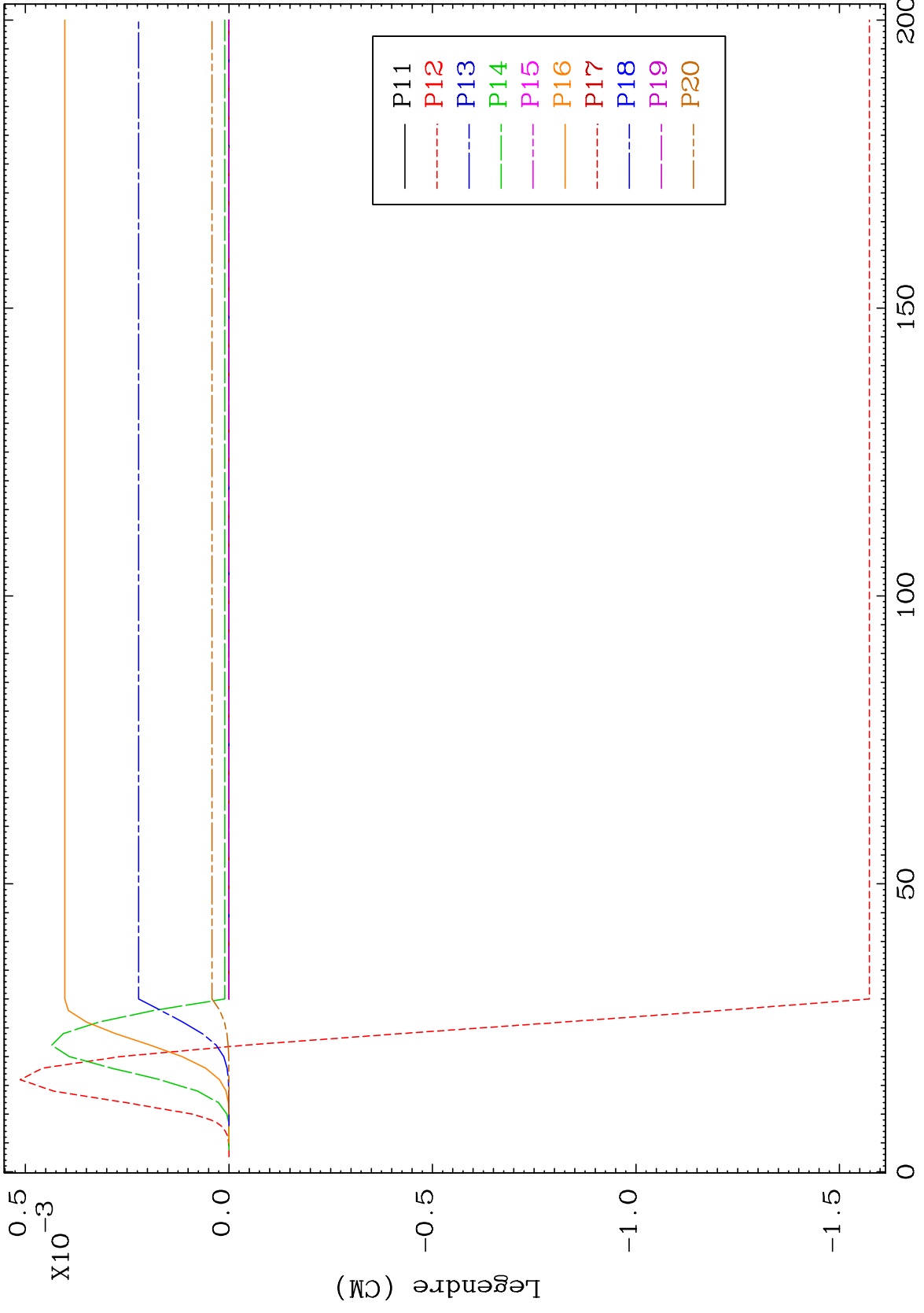


46

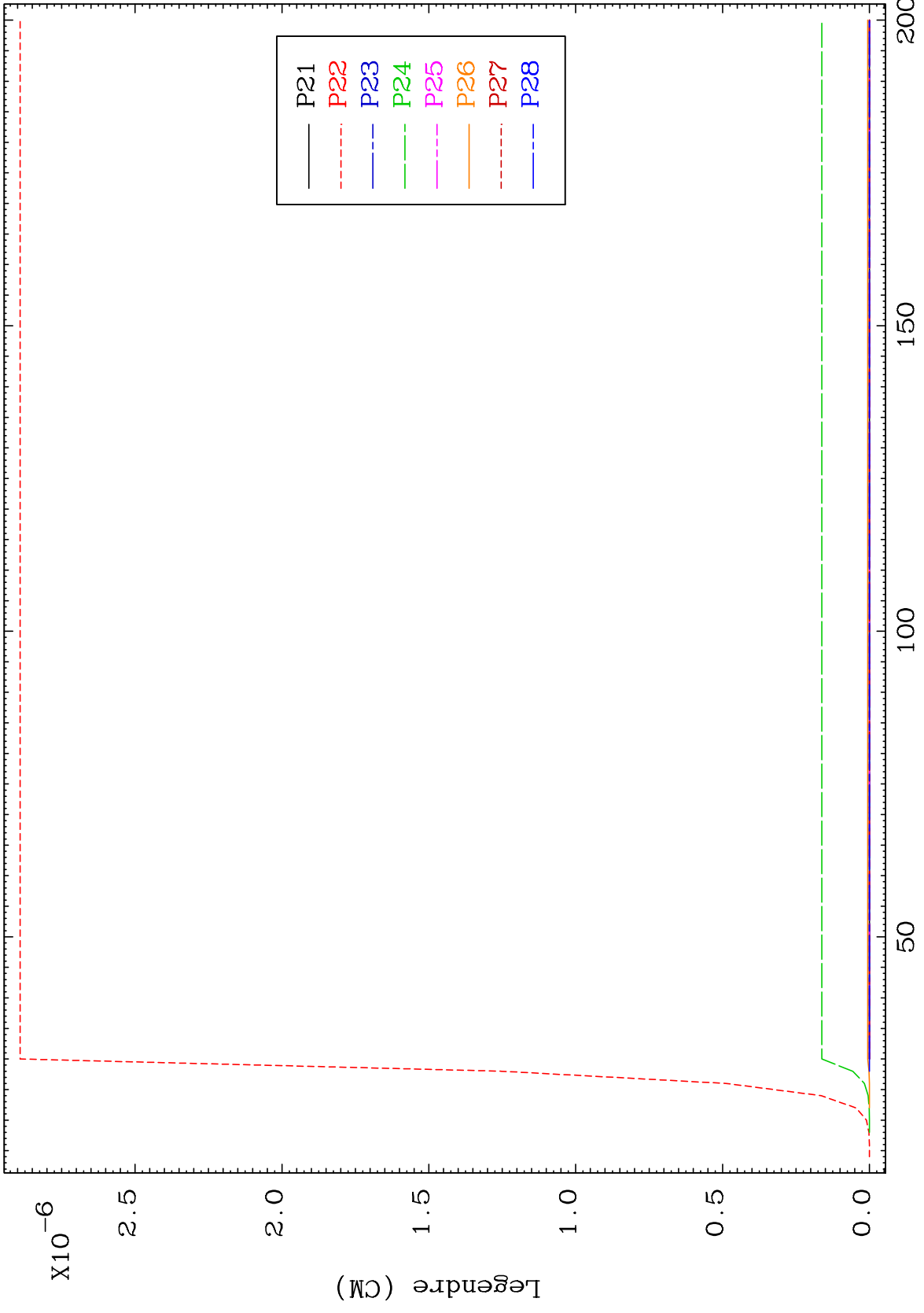
70-Yb-170

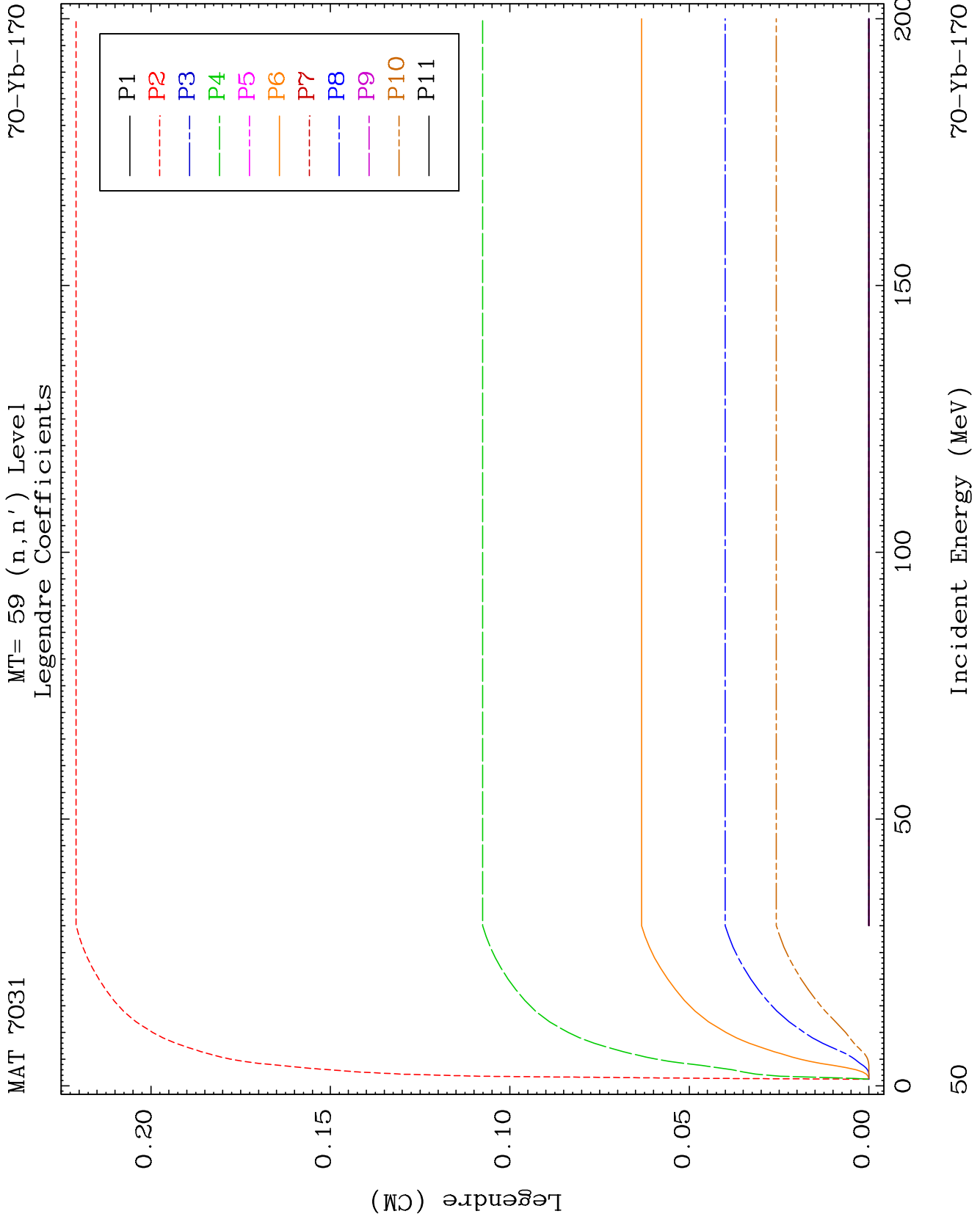


MAT 7031 MT= 58 (n,n') Level Legendre Coefficients 70-Yb-170



MAT 7031 MT= 58 (n,n') Level Legendre Coefficients 70-Yb-170

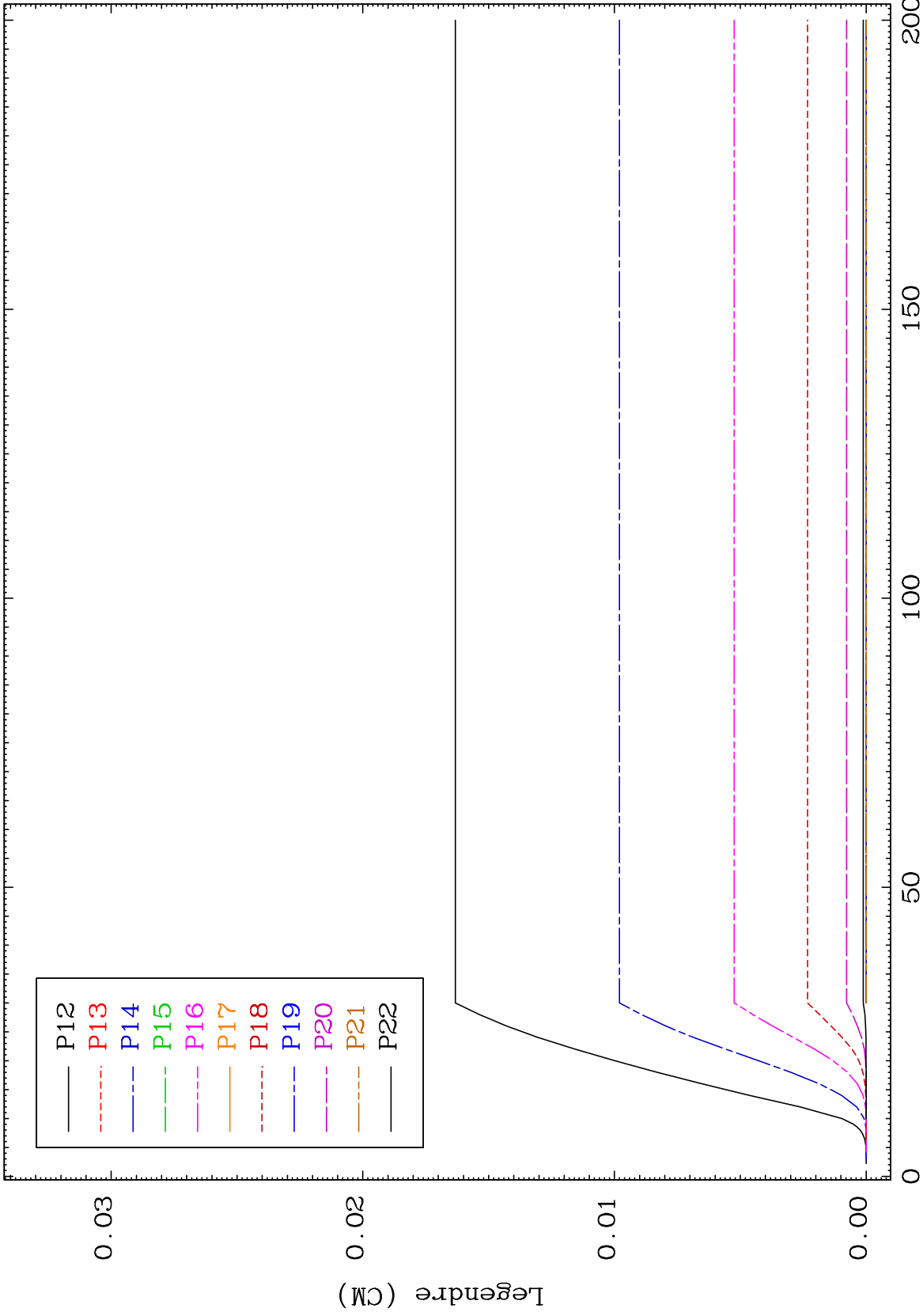




MAT 7031

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

70-Yb-170

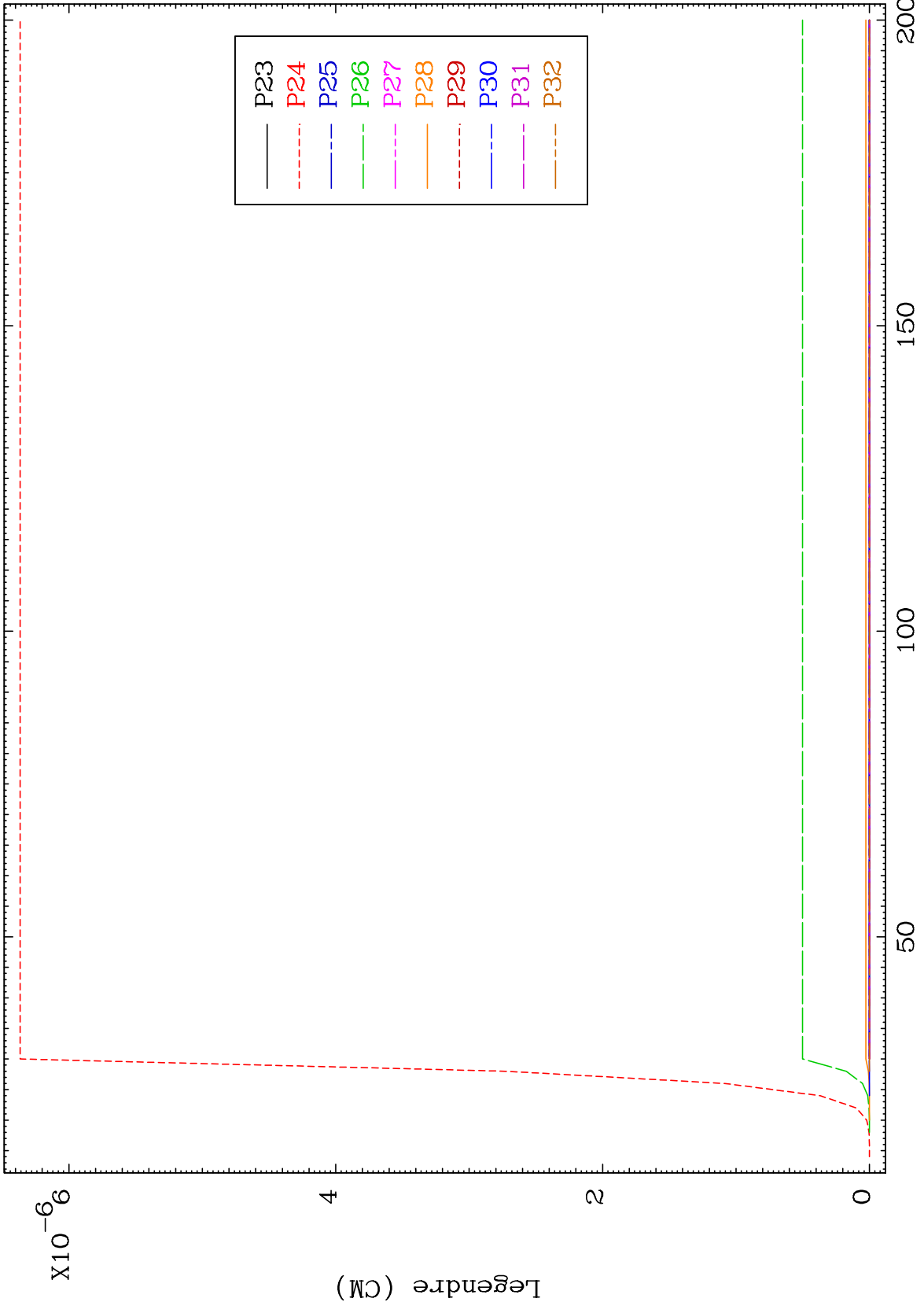


51

Incident Energy (MeV)

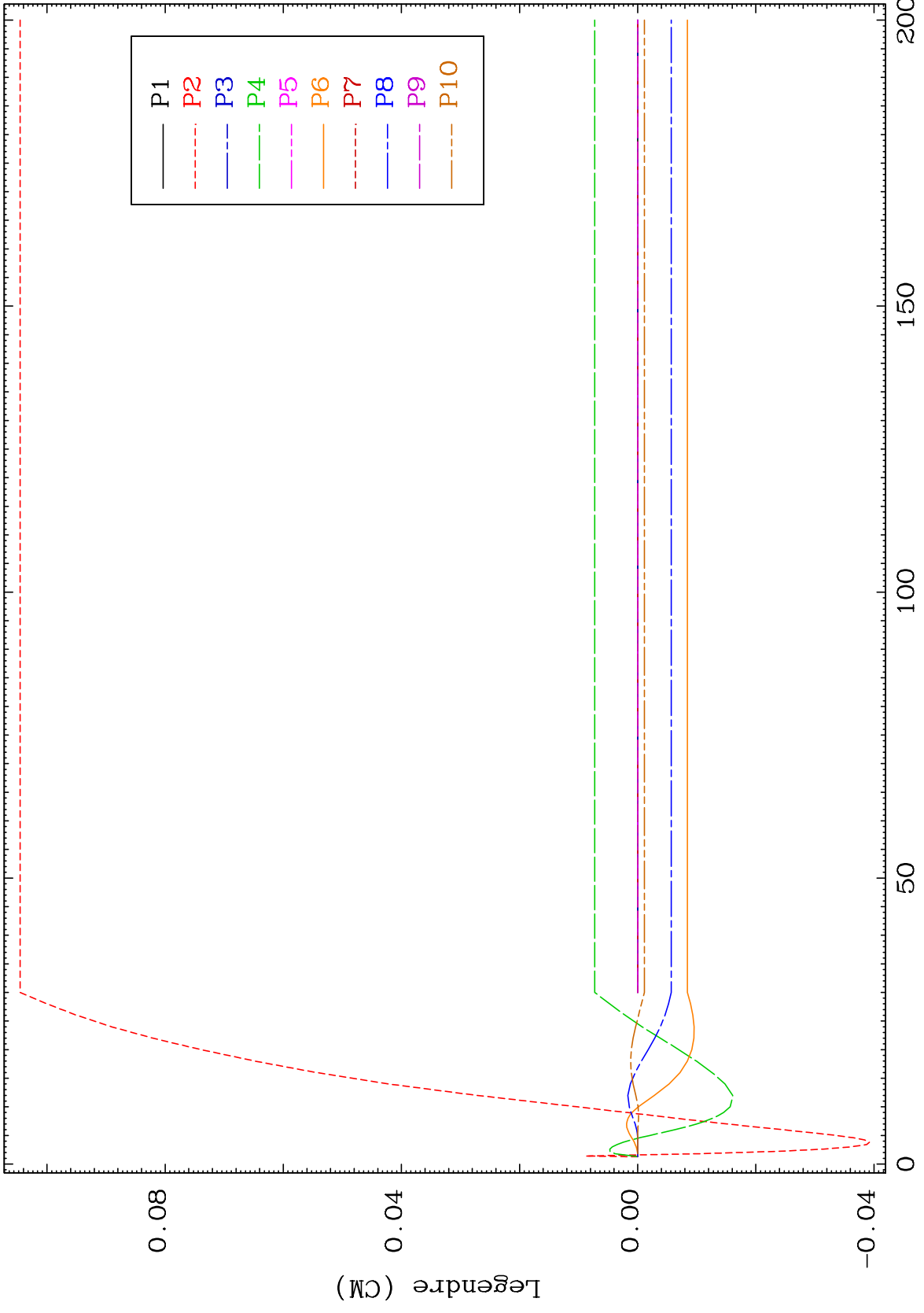
70-Yb-170

MAT 7031 MT= 59 (n,n') Level Legendre Coefficients 70-Yb-170



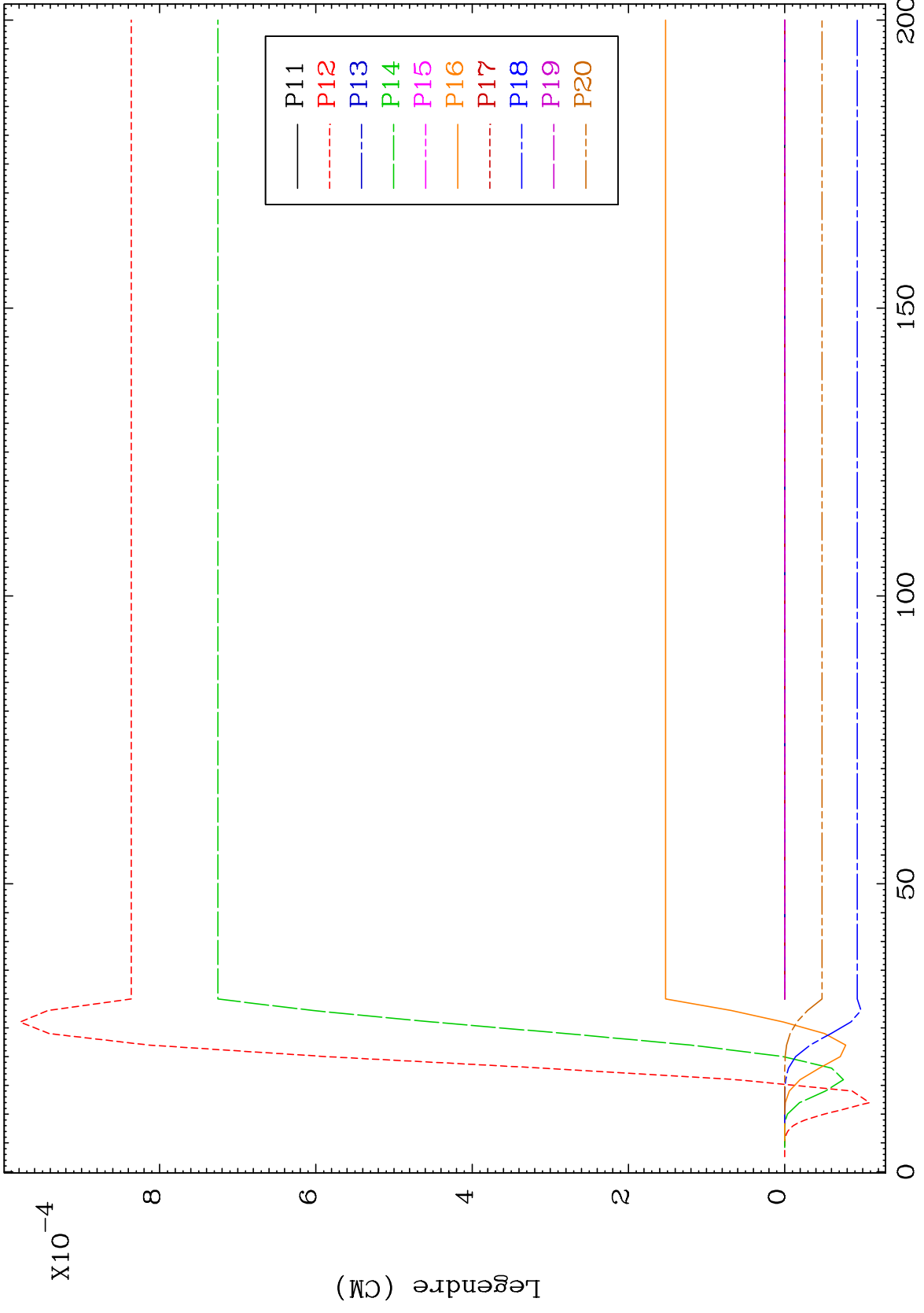
52 Incident Energy (MeV) 70-Yb-170

MAT 7031 MT= 60 (n,n') Level Legendre Coefficients 70-Yb-170



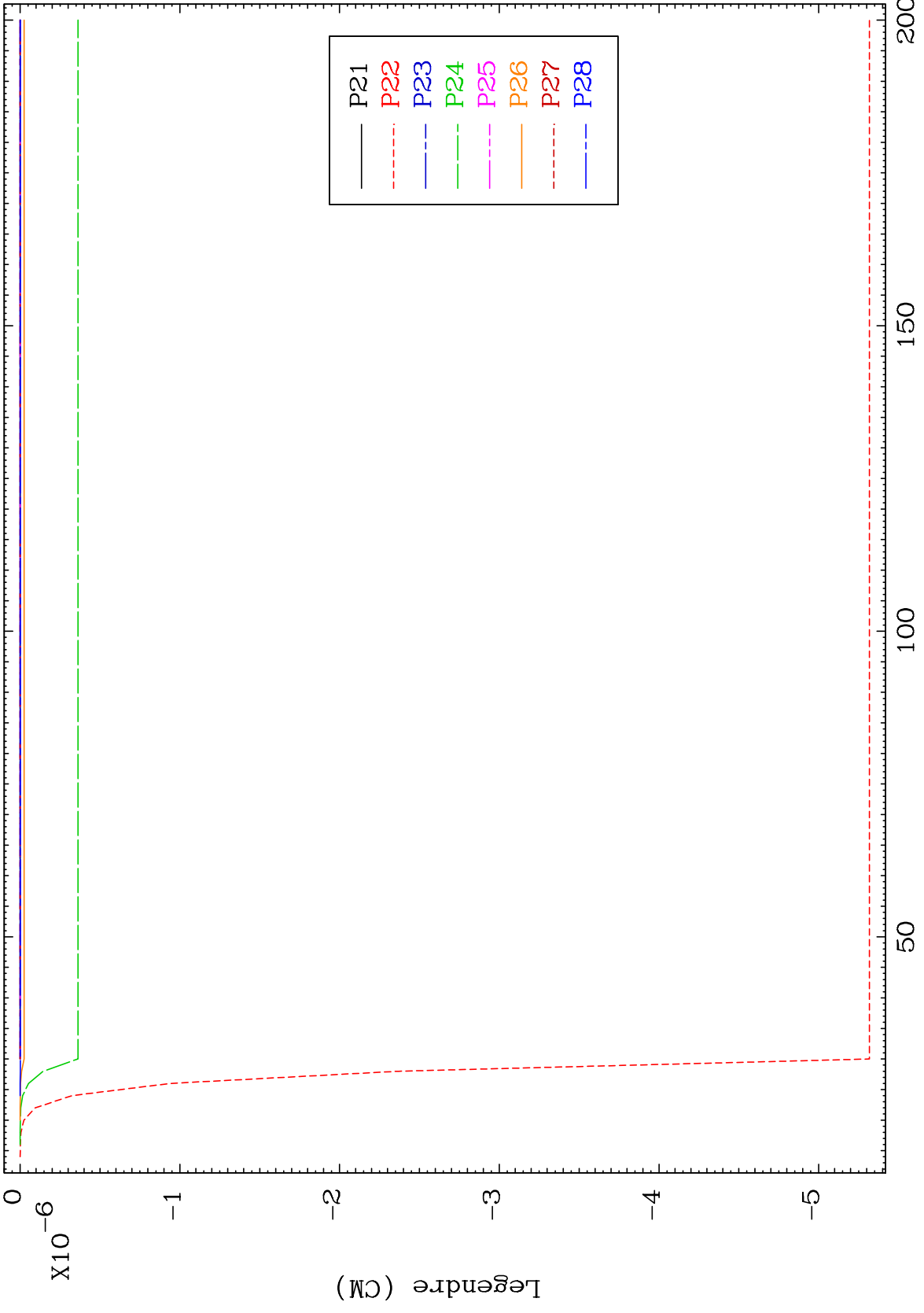
53 Incident Energy (MeV) 70-Yb-170

MAT 7031 MT= 60 (n,n') Level Legendre Coefficients 70-Yb-170



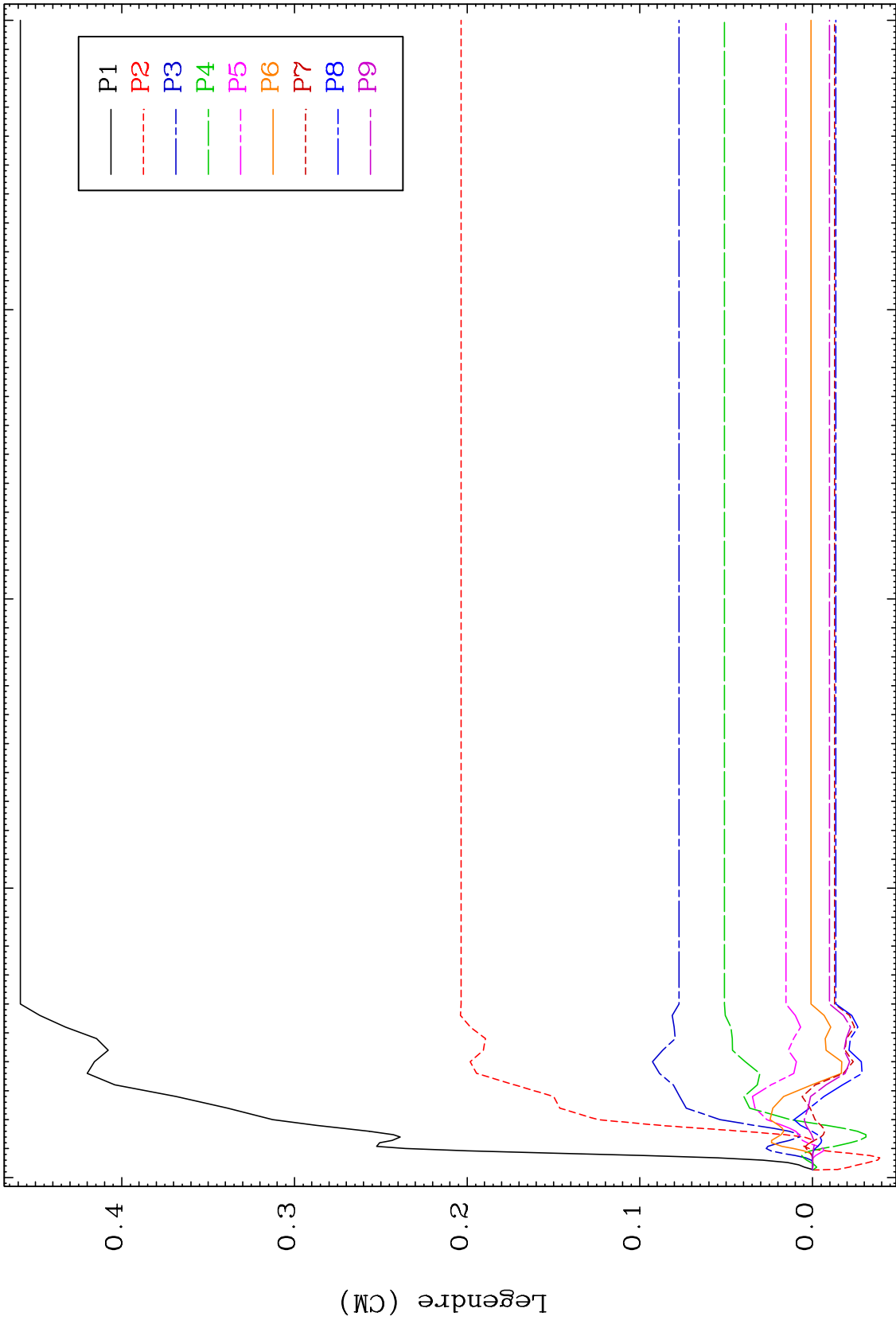
54 70-Yb-170

MAT 7031 MT= 60 (n,n') Level Legendre Coefficients 70-Yb-170



55 Incident Energy (MeV) 70-Yb-170

MAT 7031 MT= 61 (n,n') Level Legendre Coefficients 70-Yb-170

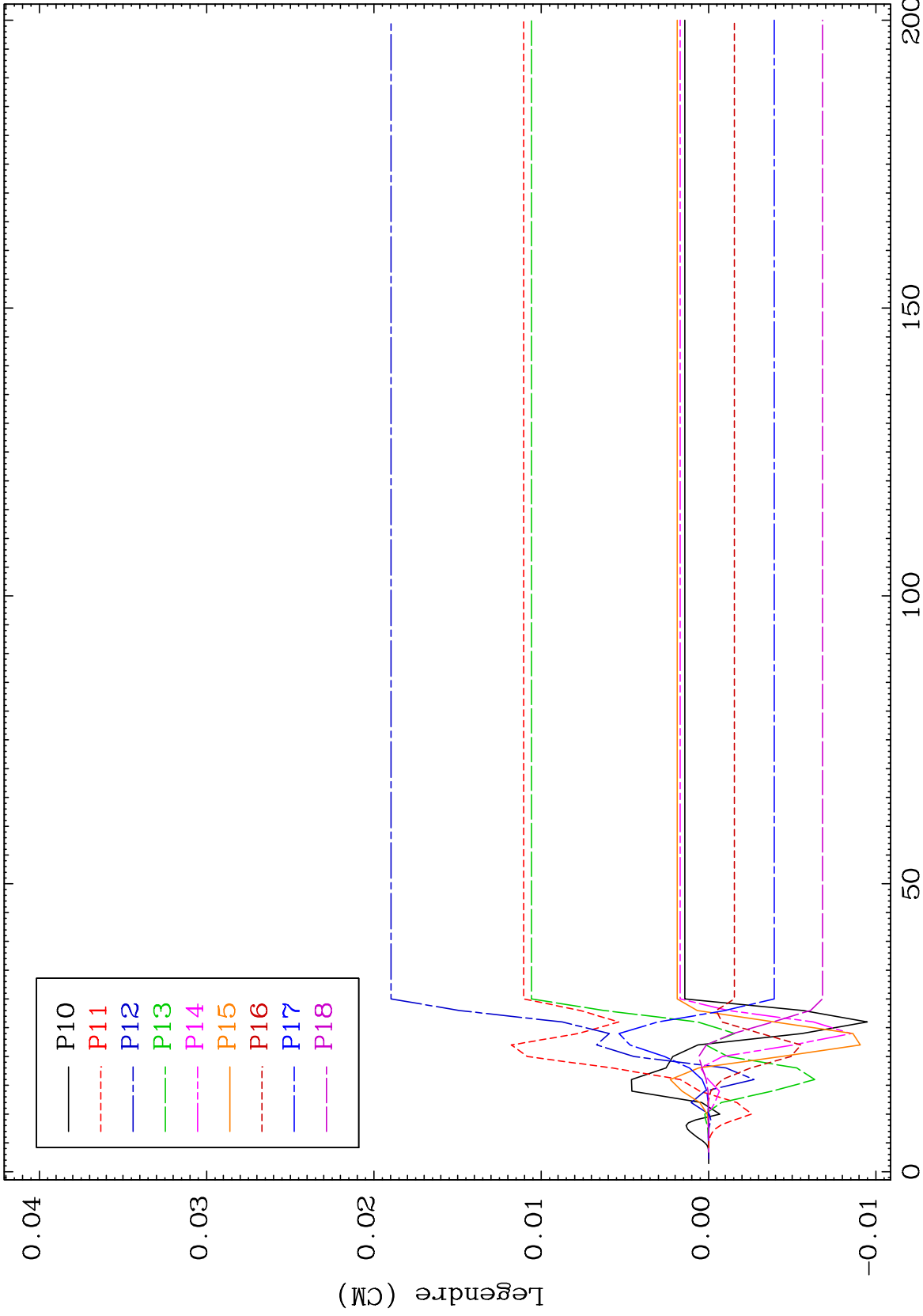


56 Incident Energy (MeV) 70-Yb-170

MAT 7031

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

70-Yb-170



57

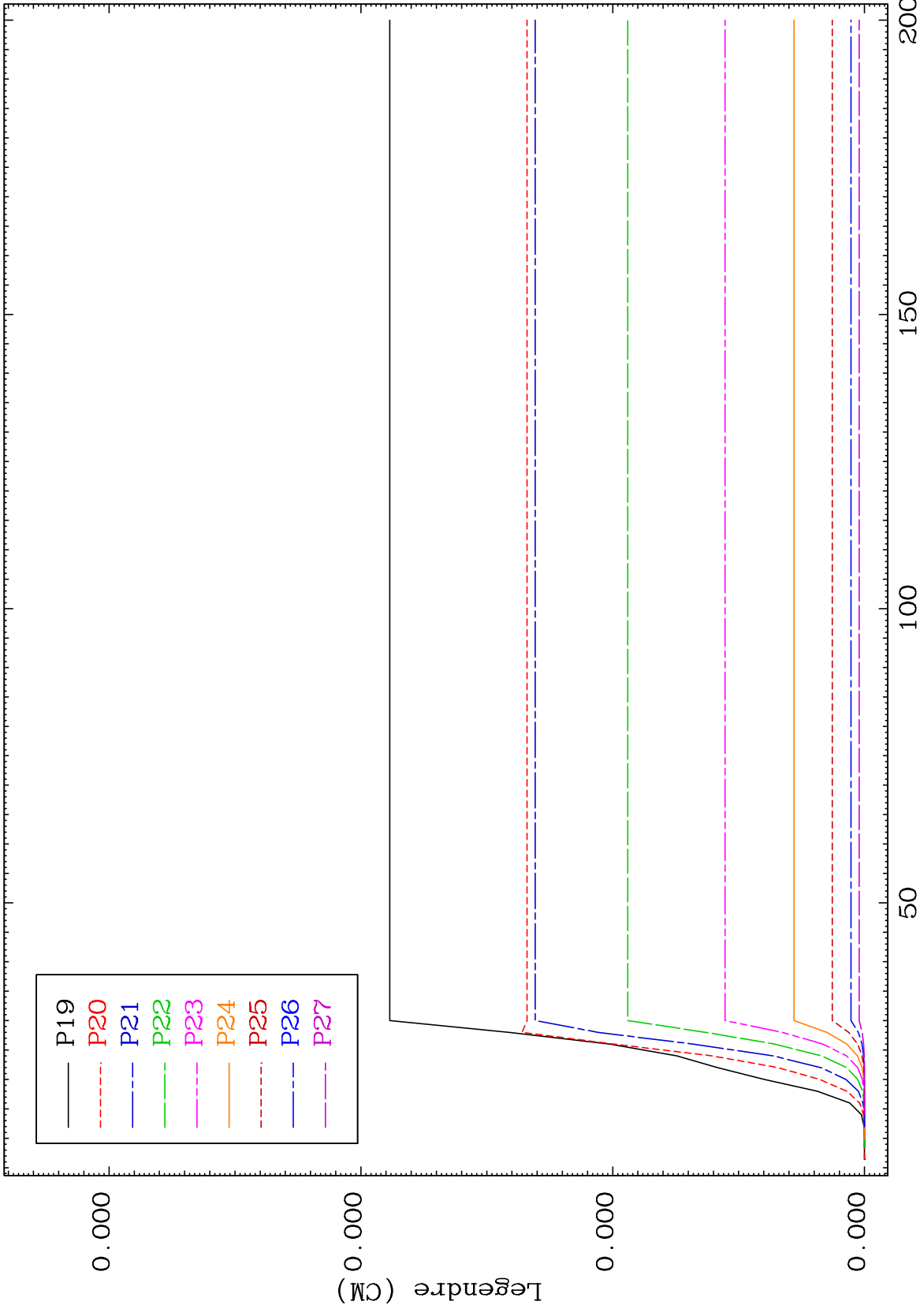
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



58

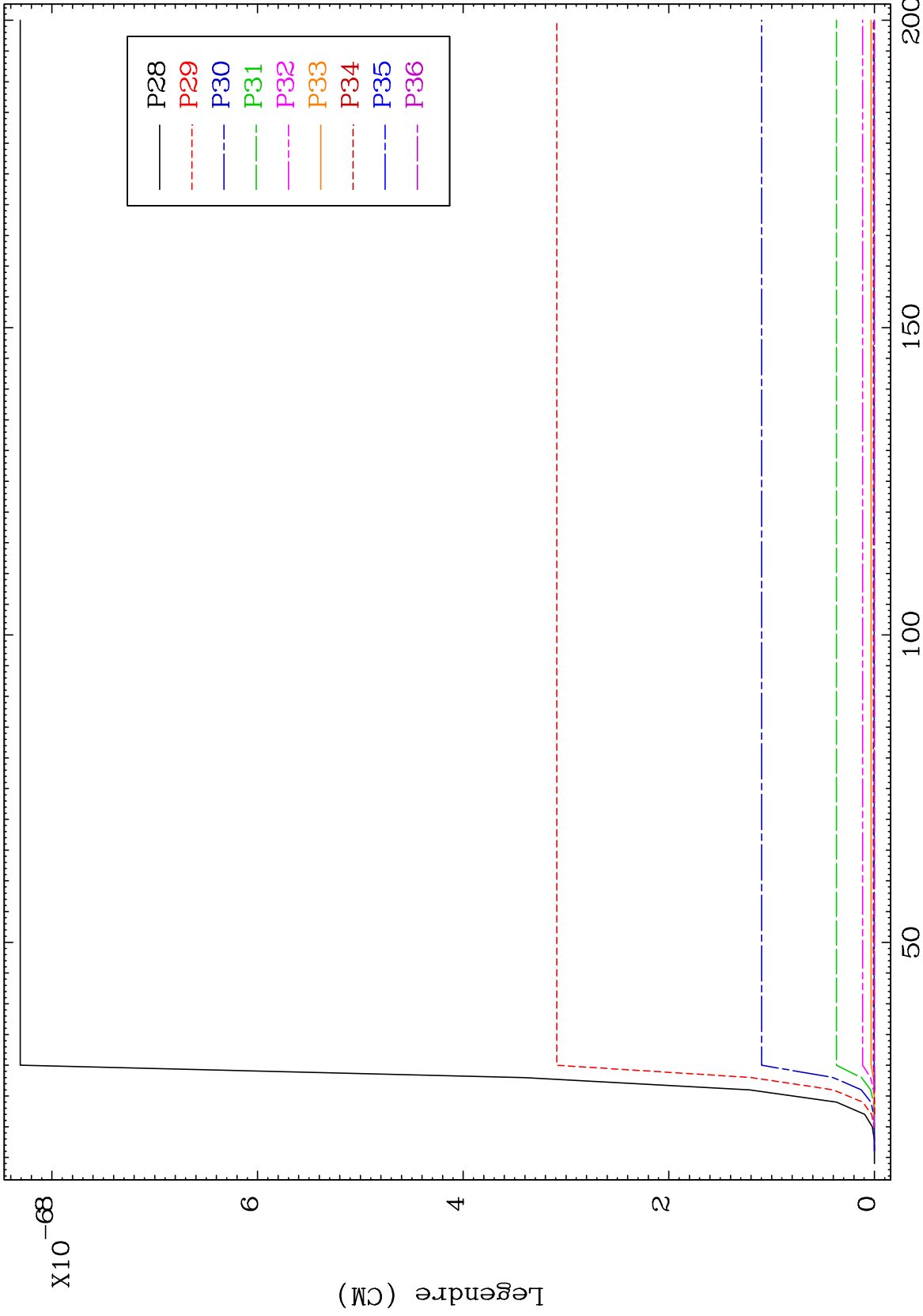
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



59

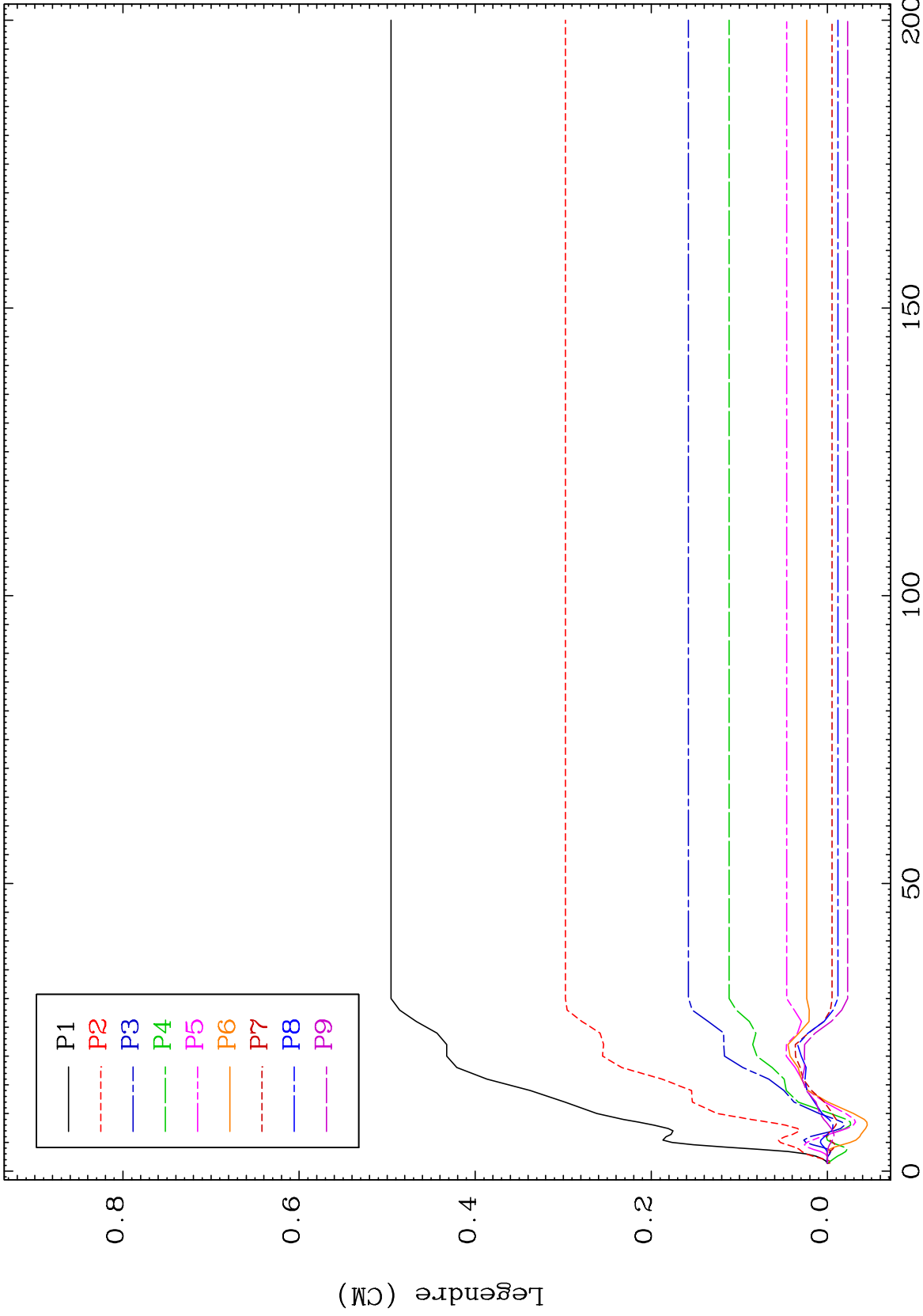
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170

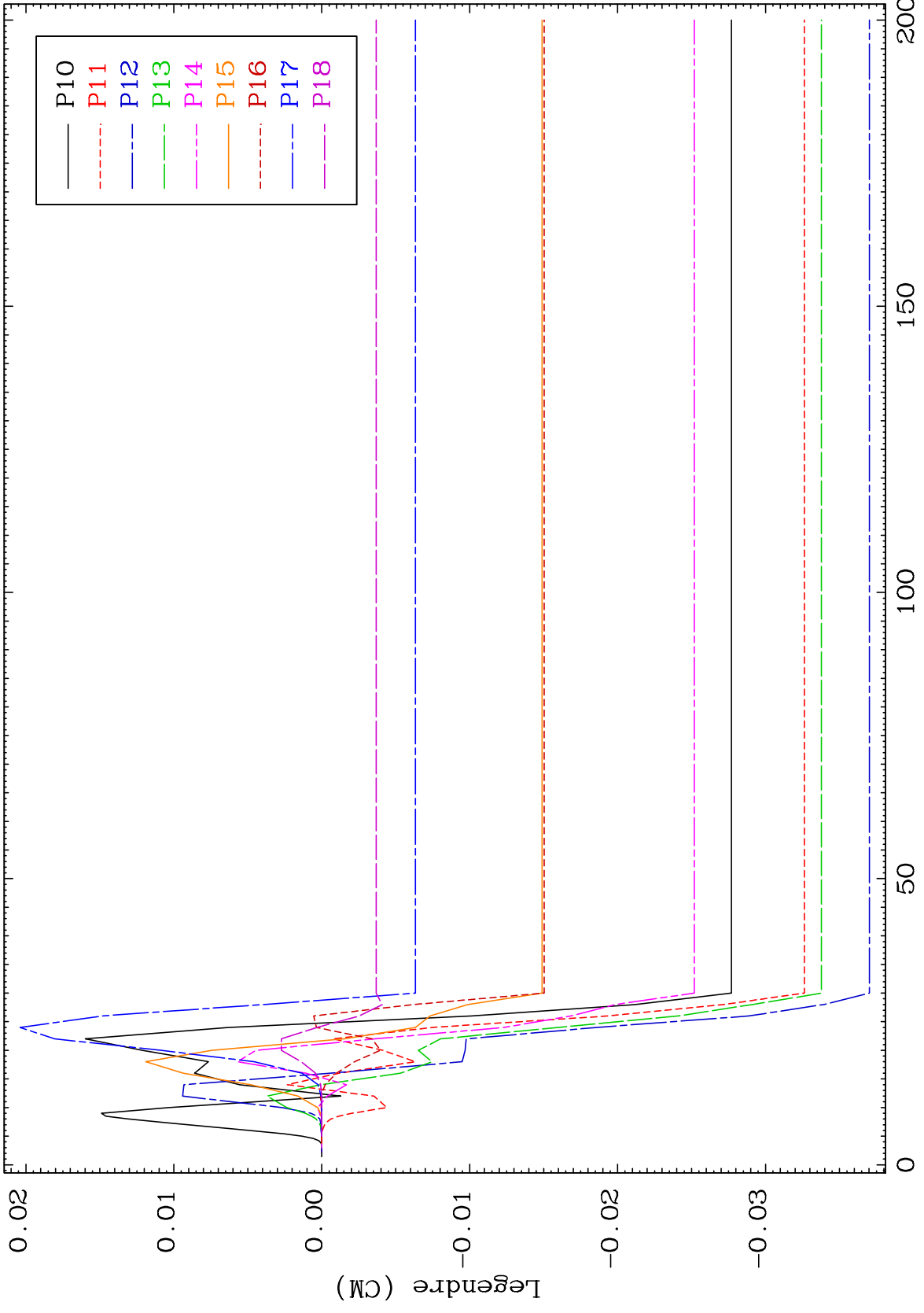


60

Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 62 (n,n') Level Legendre Coefficients 70-Yb-170

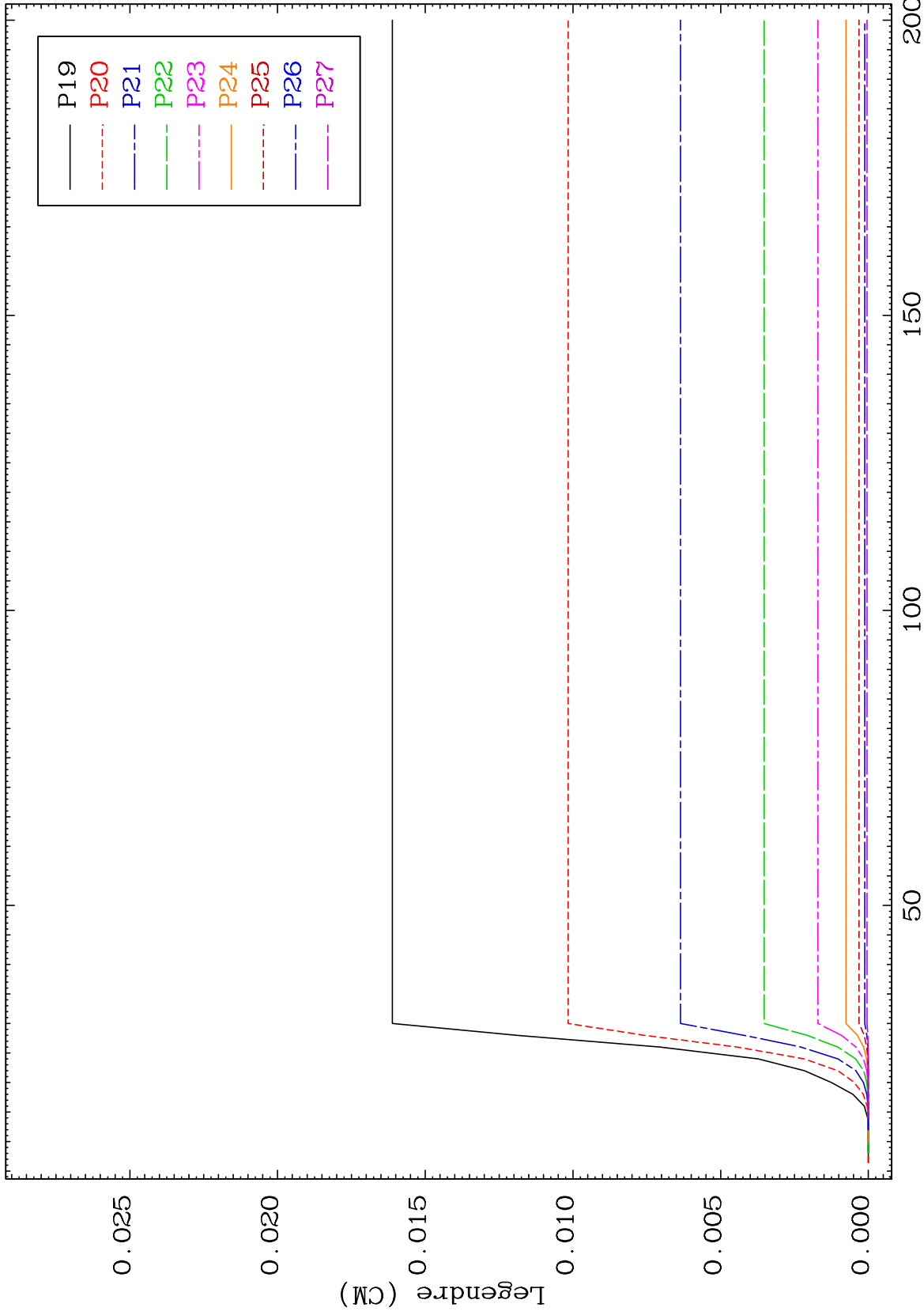


61 70-Yb-170

MAT 7031

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

70-Yb-170



62

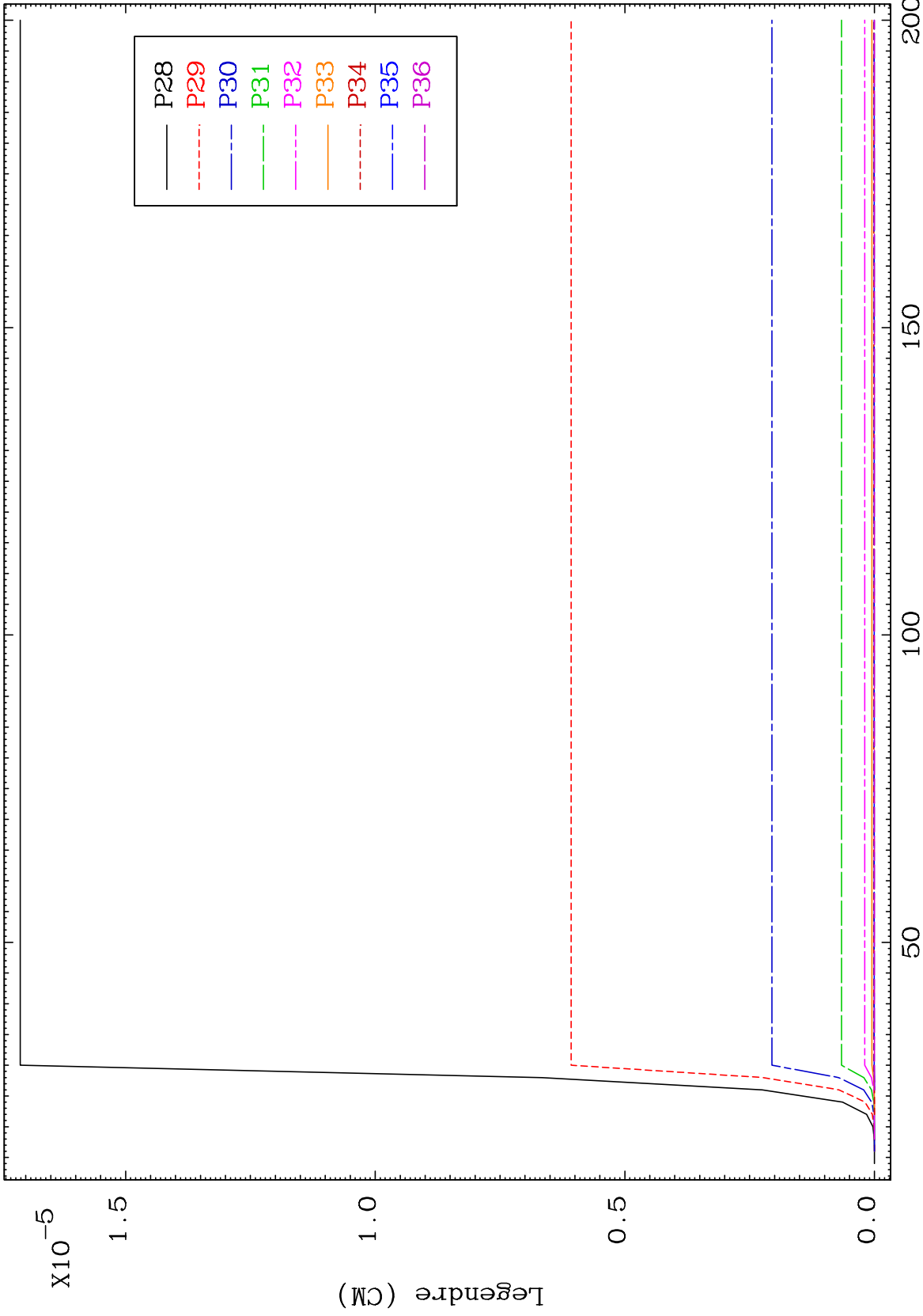
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170

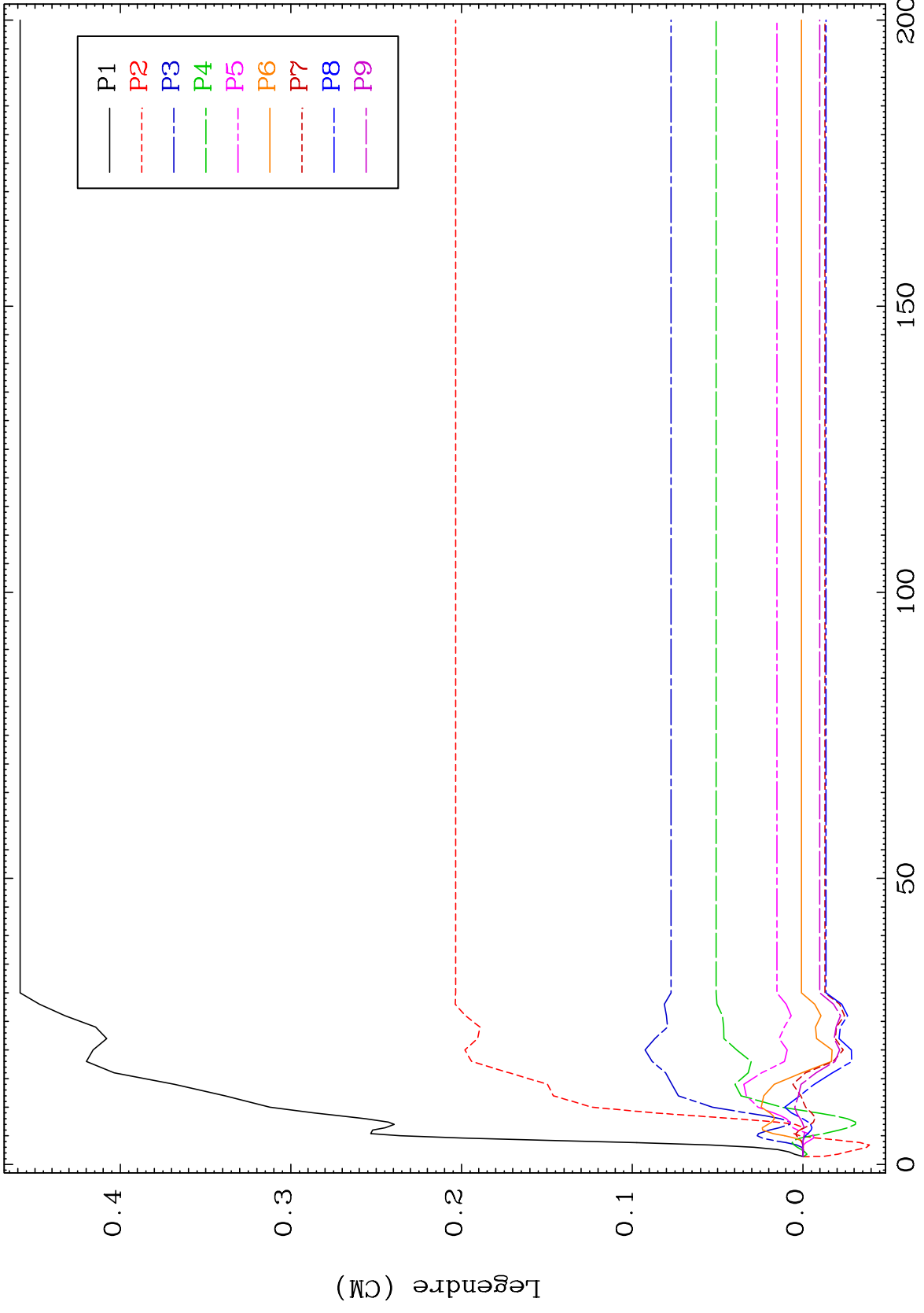


63

Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 63 (n,n') Level Legendre Coefficients 70-Yb-170

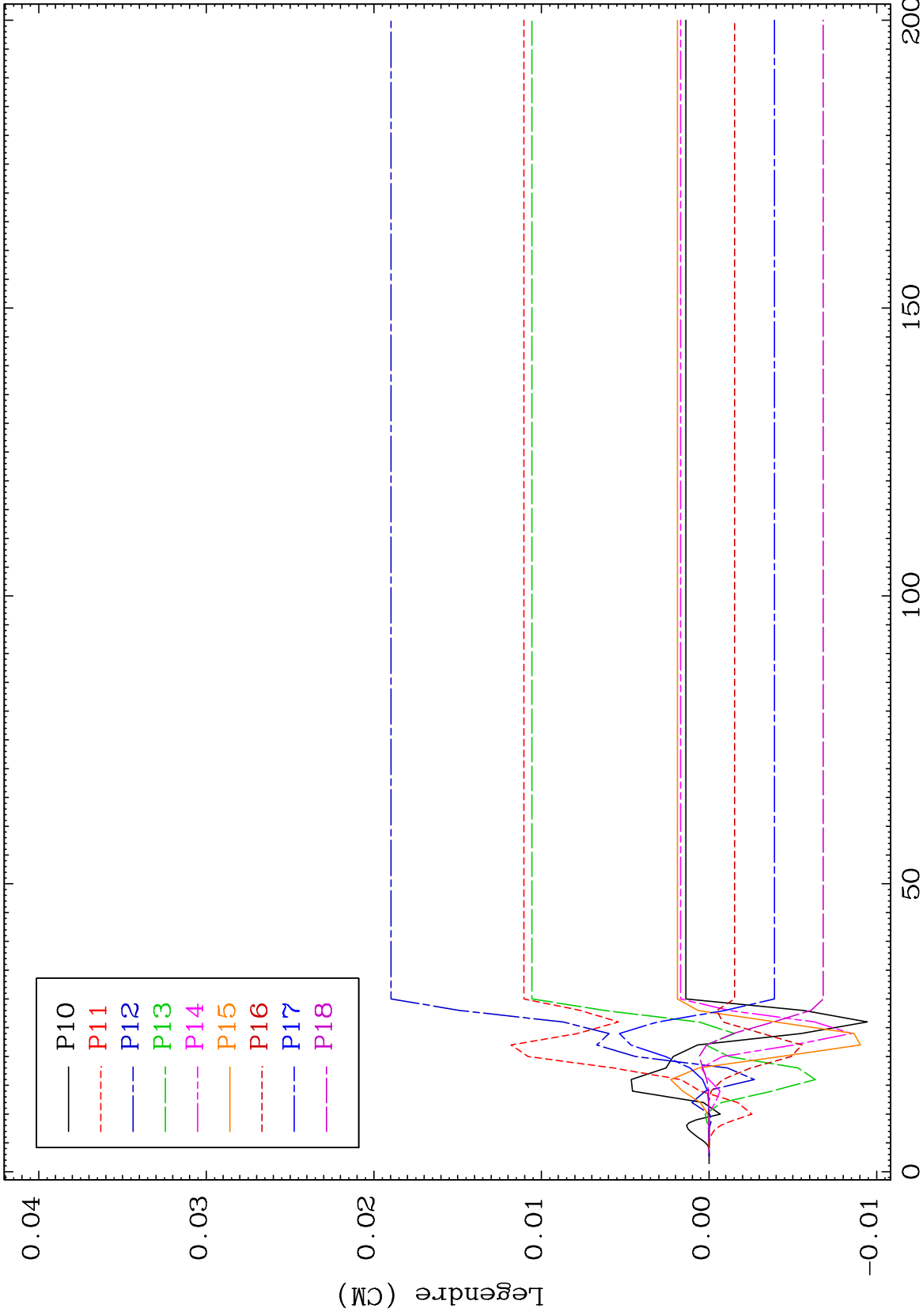


64 70-Yb-170

MAT 7031

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

70-Yb-170



65

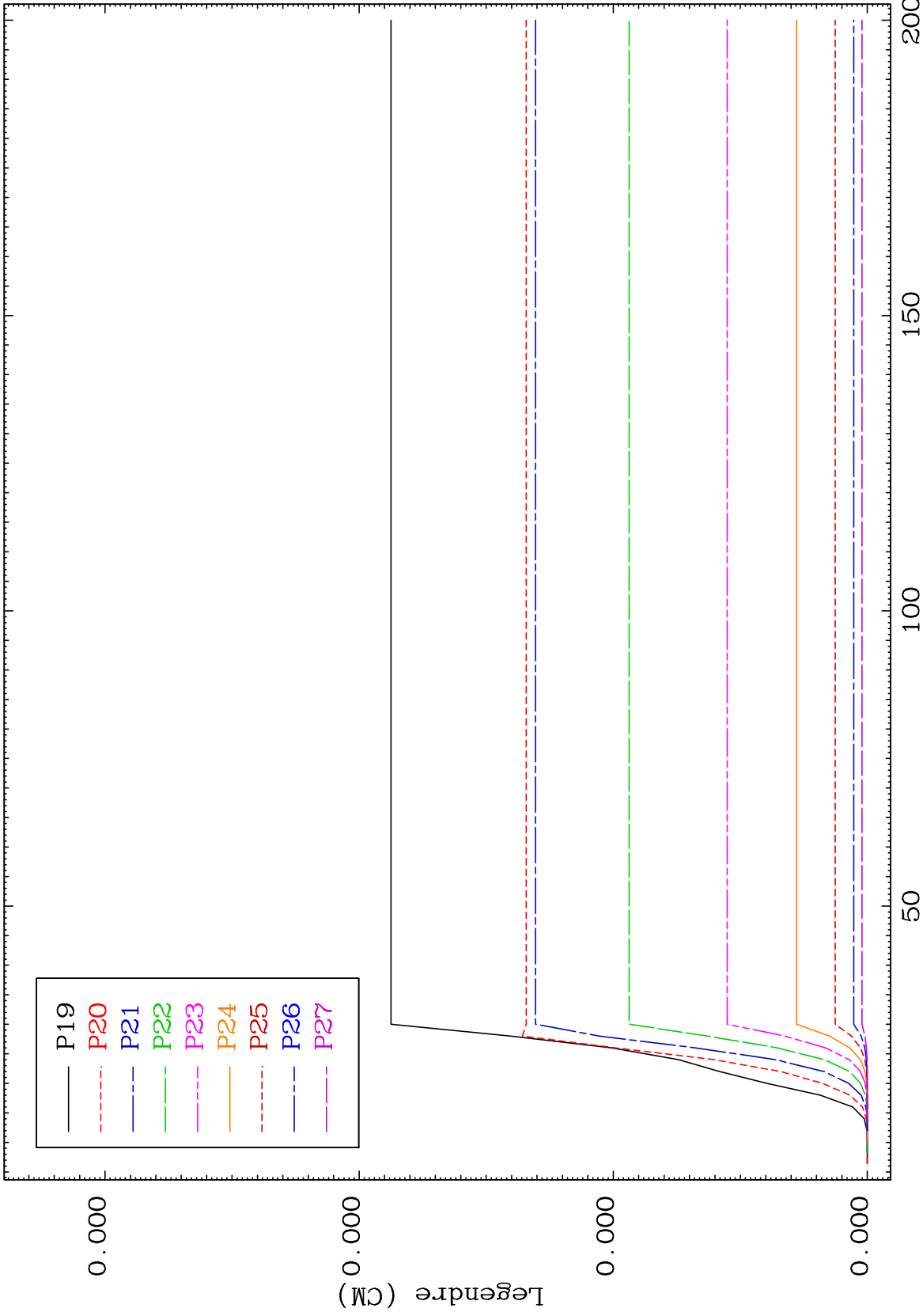
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

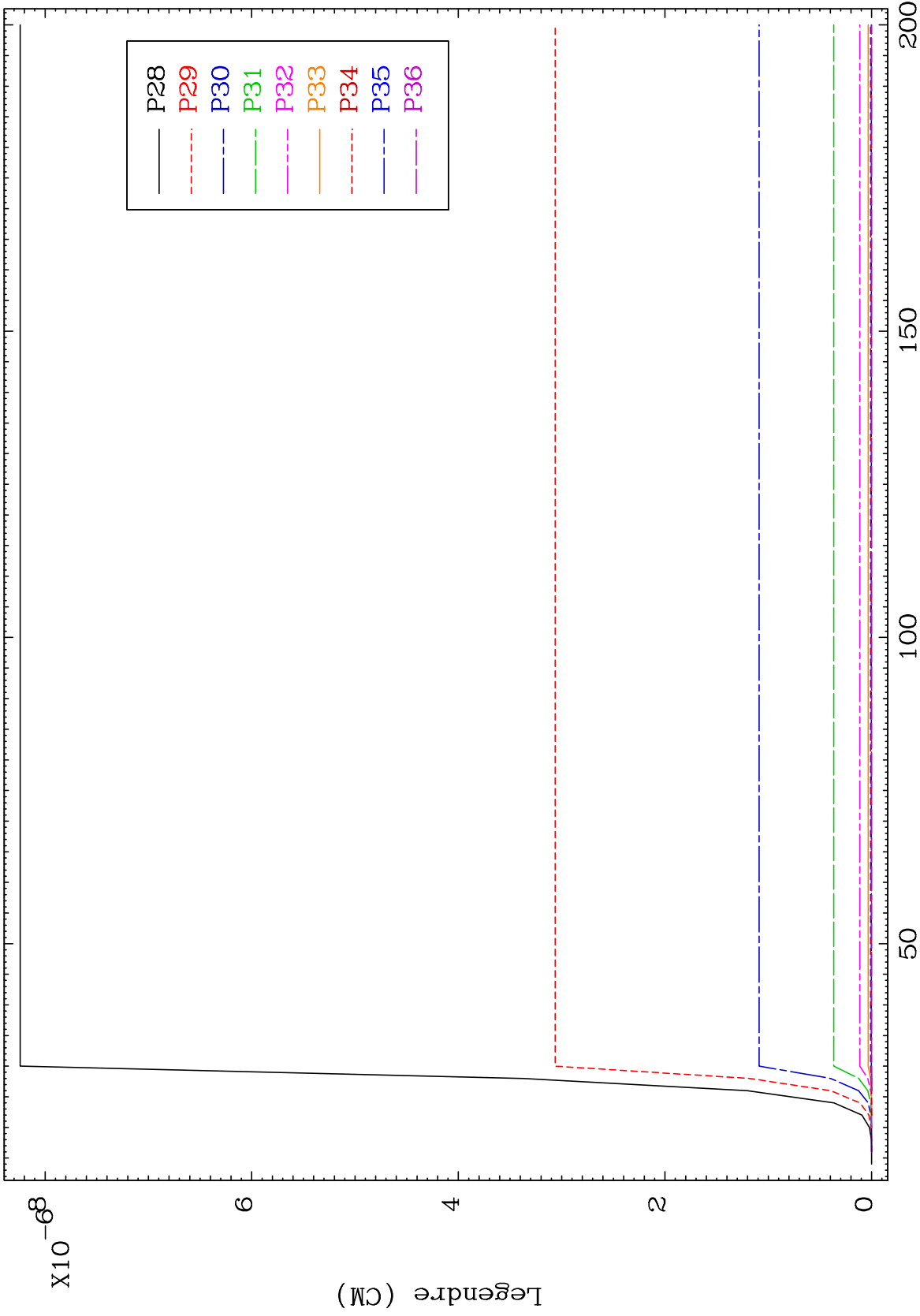
70-Yb-170



MAT 7031

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

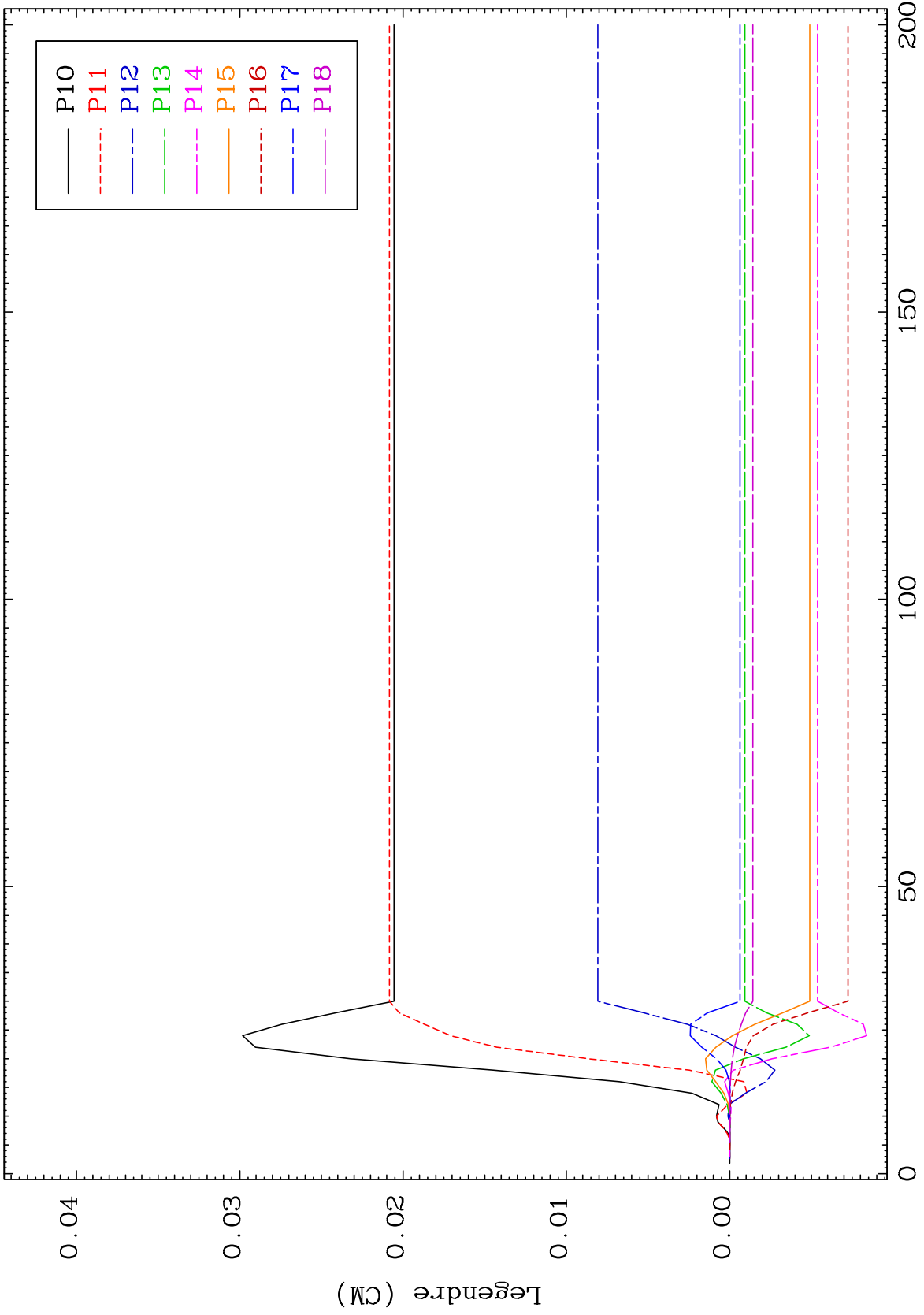
70-Yb-170



MAT 7031

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

70-Yb-170



69

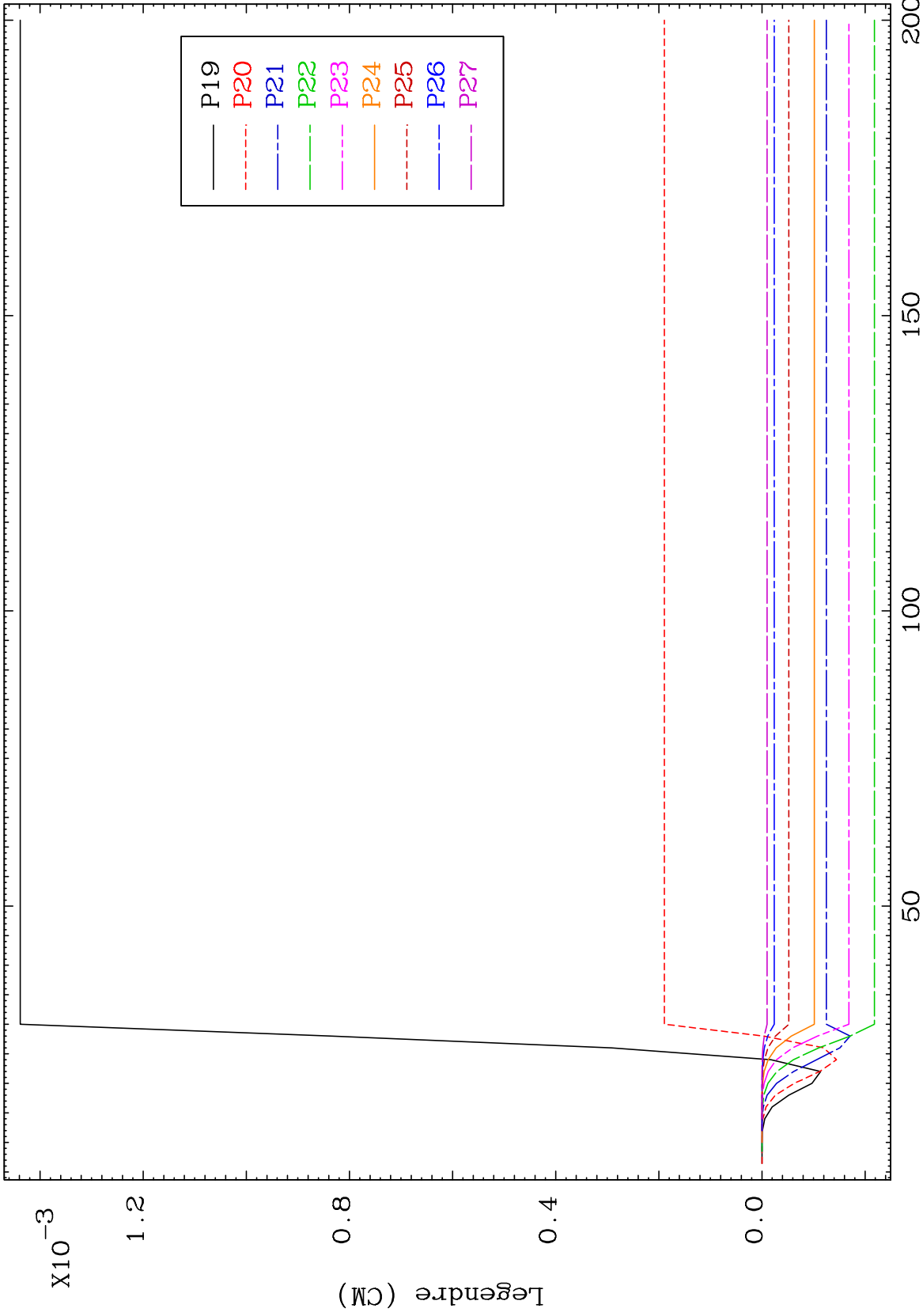
Incident Energy (MeV)

70-Yb-170

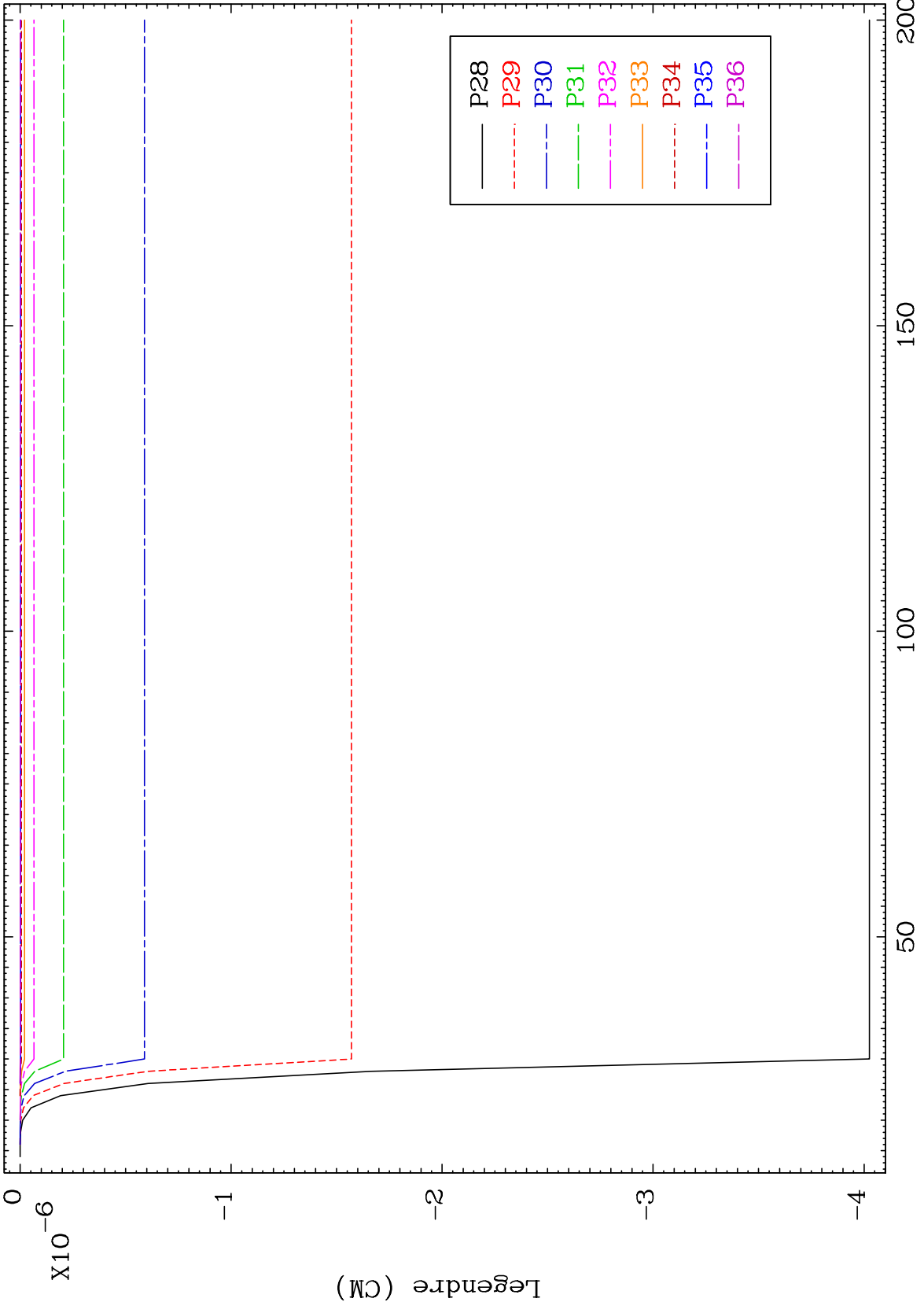
MAT 7031

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

70-Yb-170



MAT 7031 MT= 64 (n,n') Level Legendre Coefficients 70-Yb-170

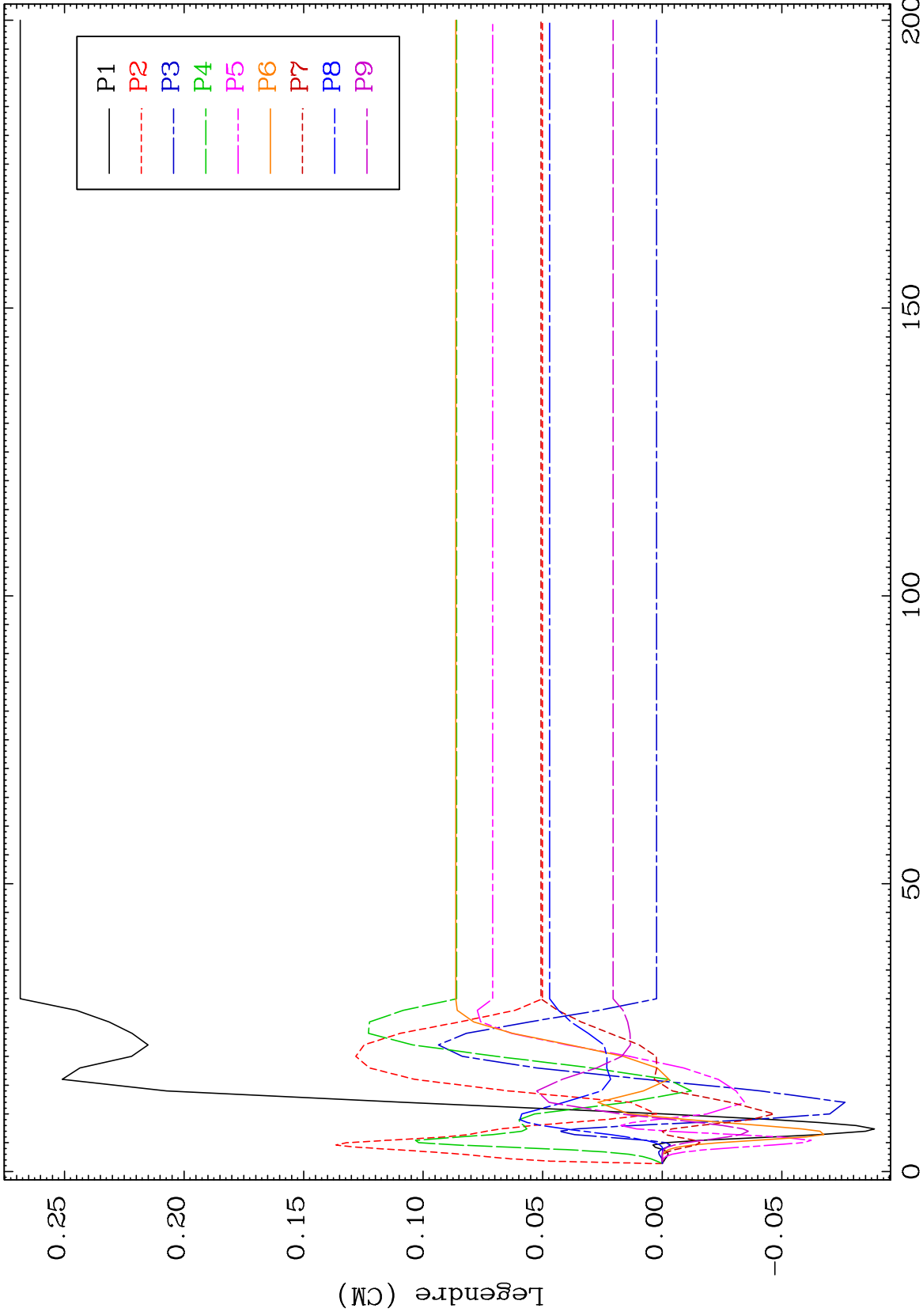


71 Incident Energy (MeV) 70-Yb-170

MAT 7031

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

70-Yb-170

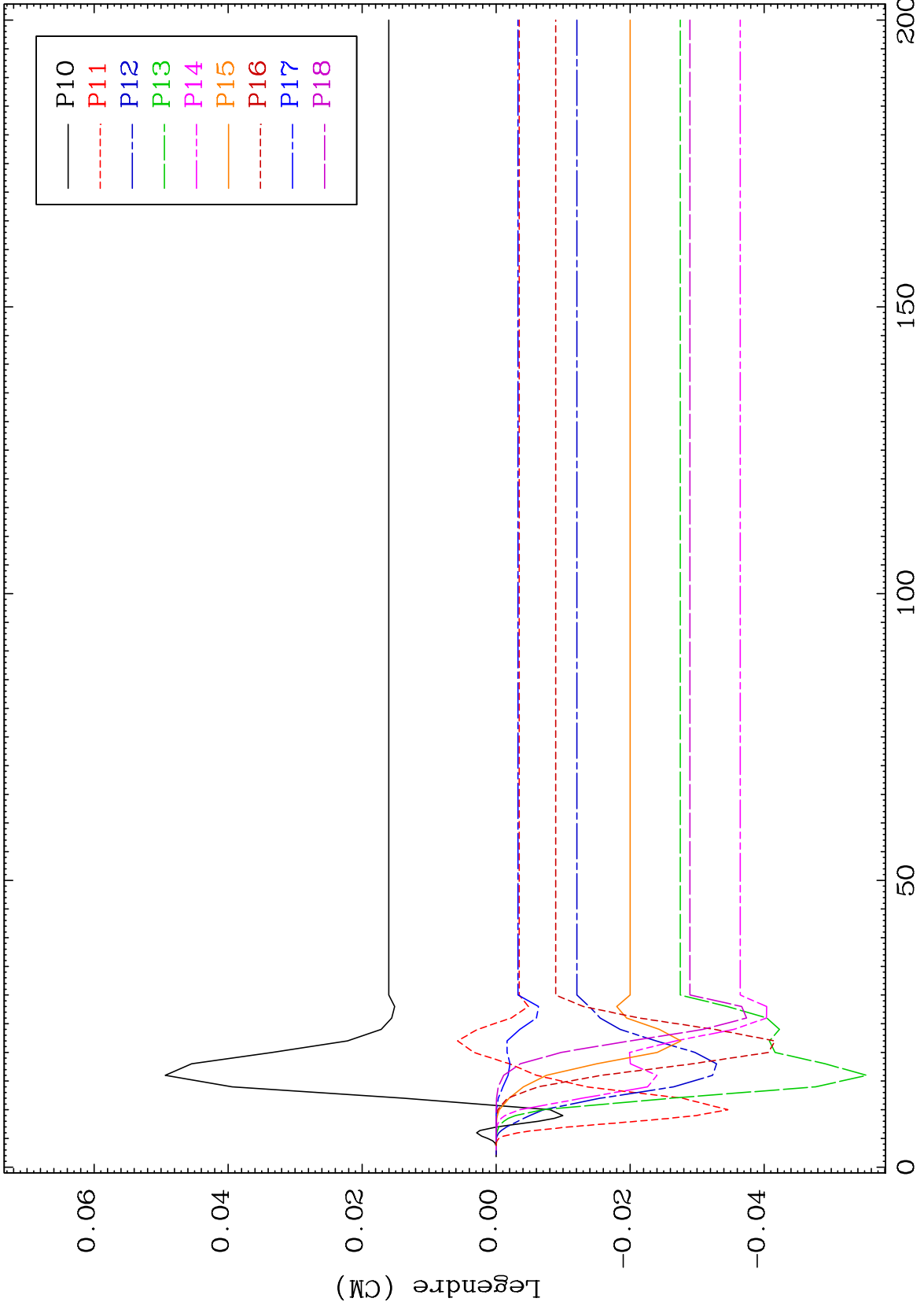


72

Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 65 (n,n') Level Legendre Coefficients 70-Yb-170

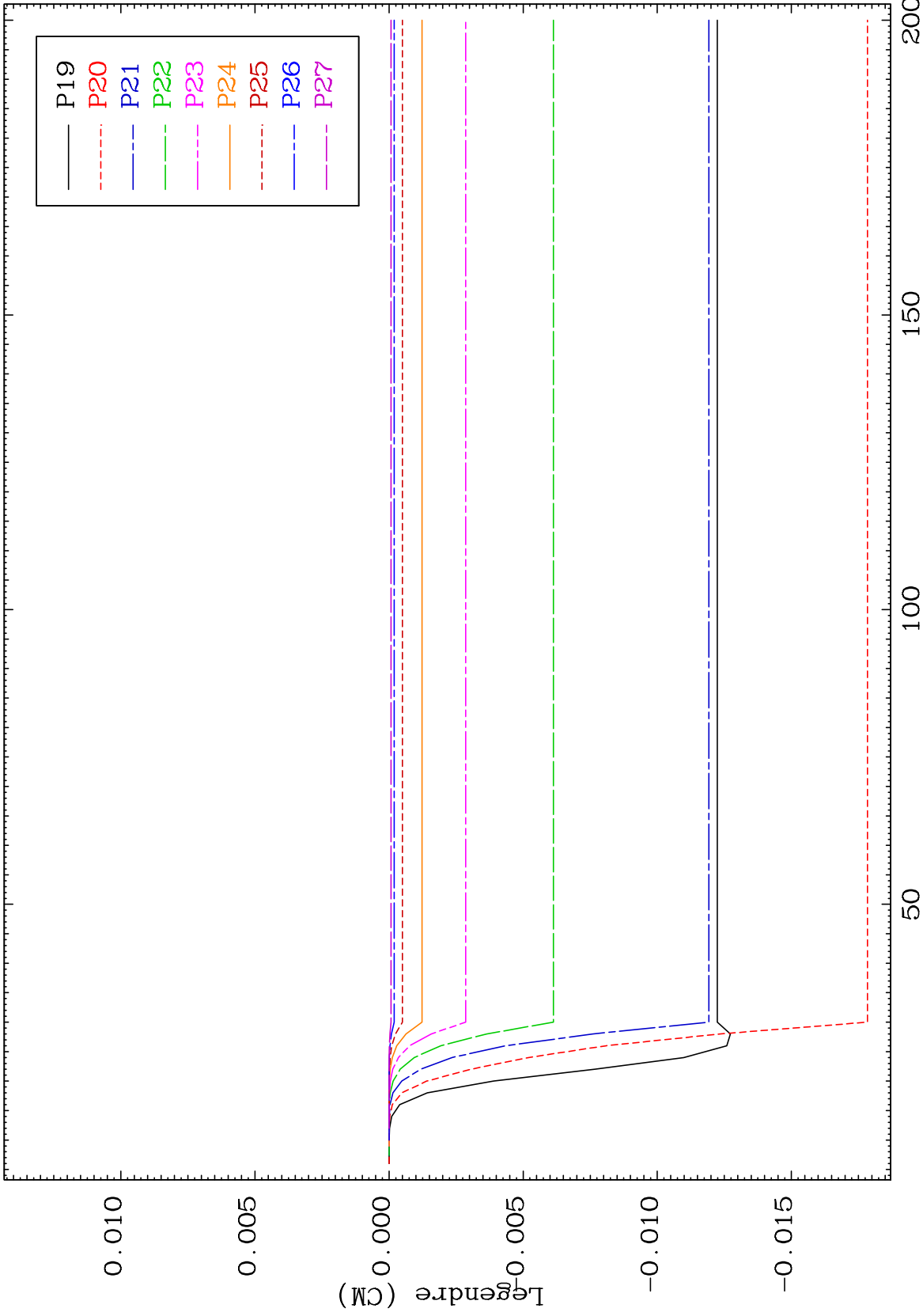


73 70-Yb-170

MAT 7031

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

70-Yb-170

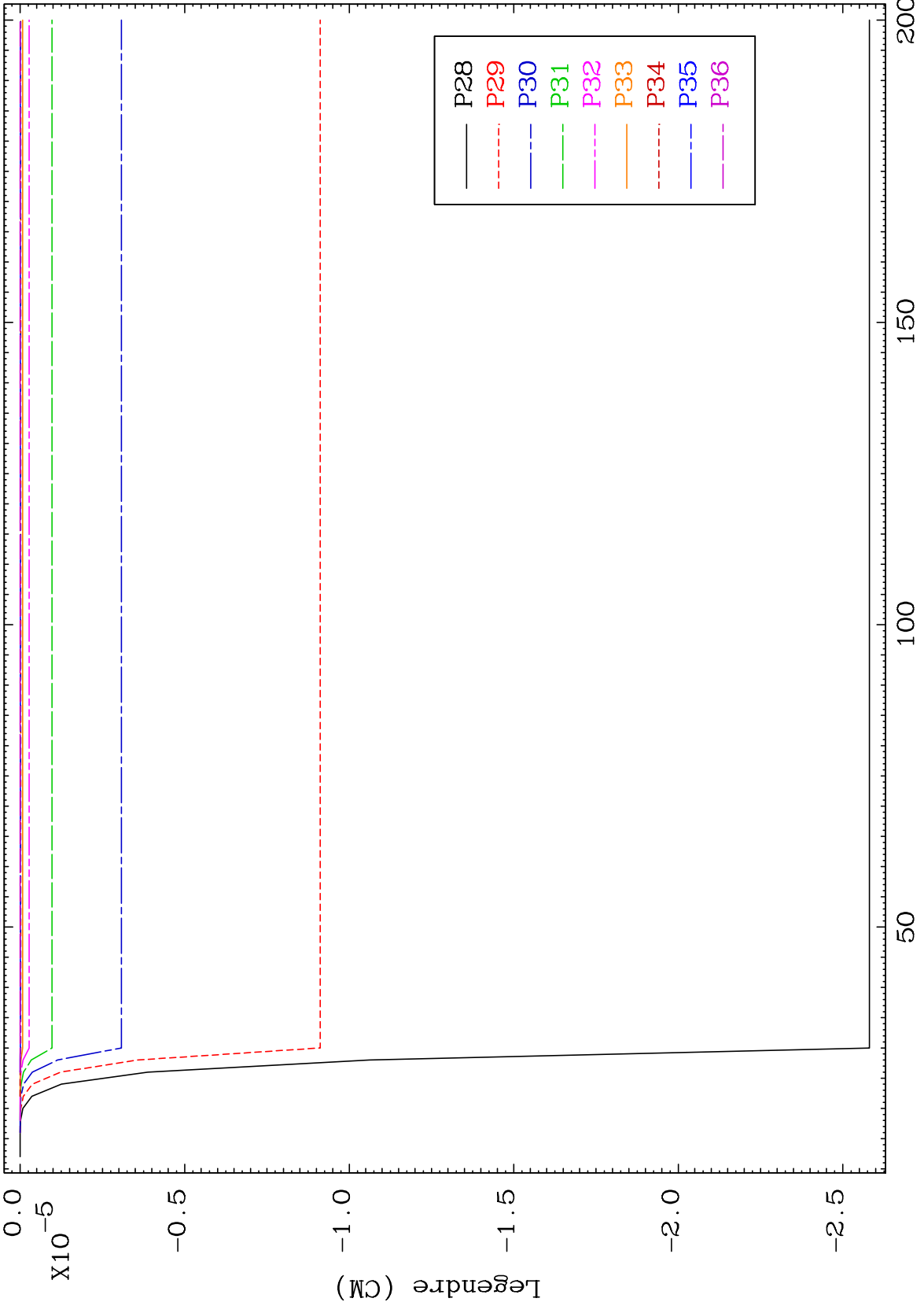


74

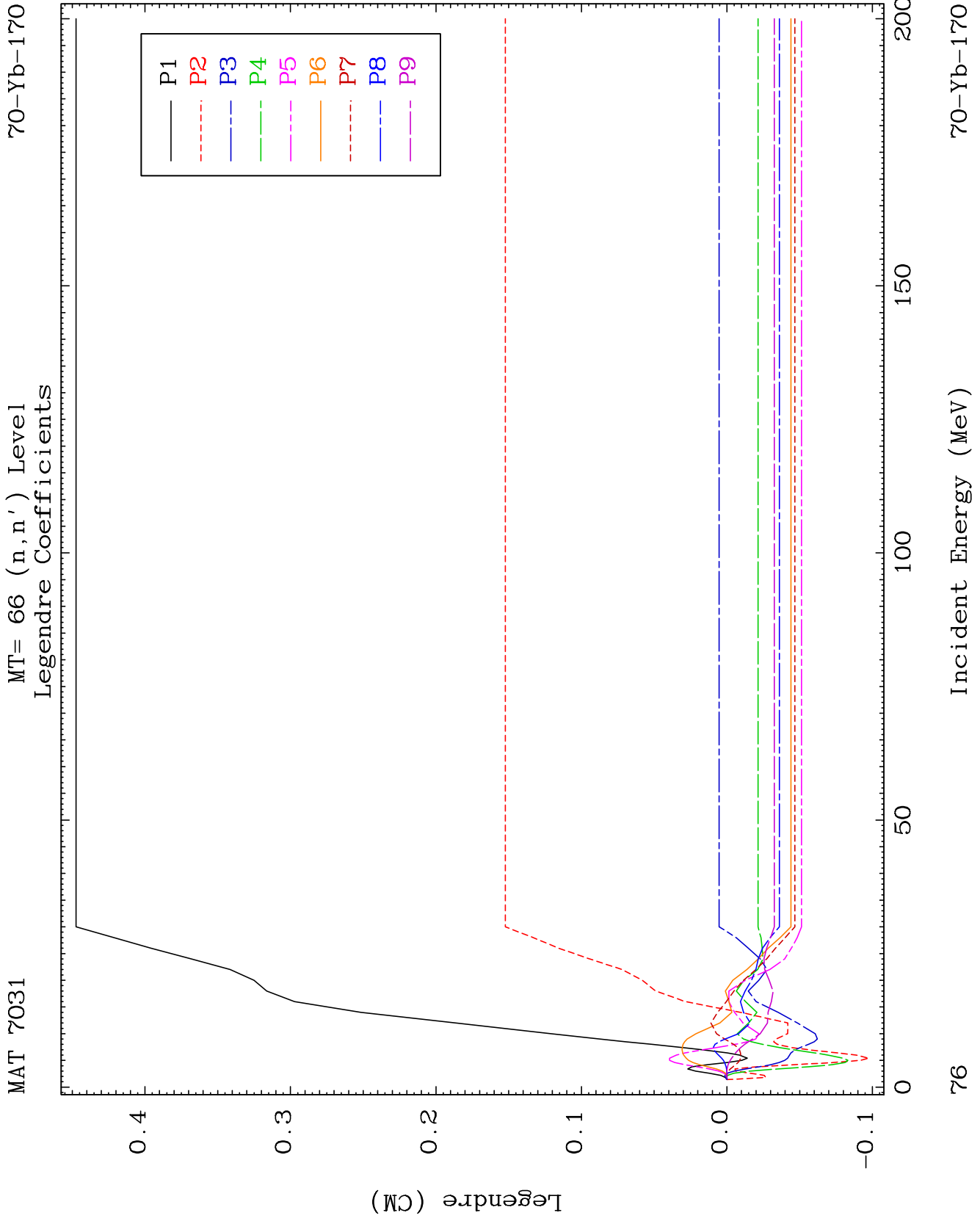
Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 65 (n,n') Level Legendre Coefficients 70-Yb-170



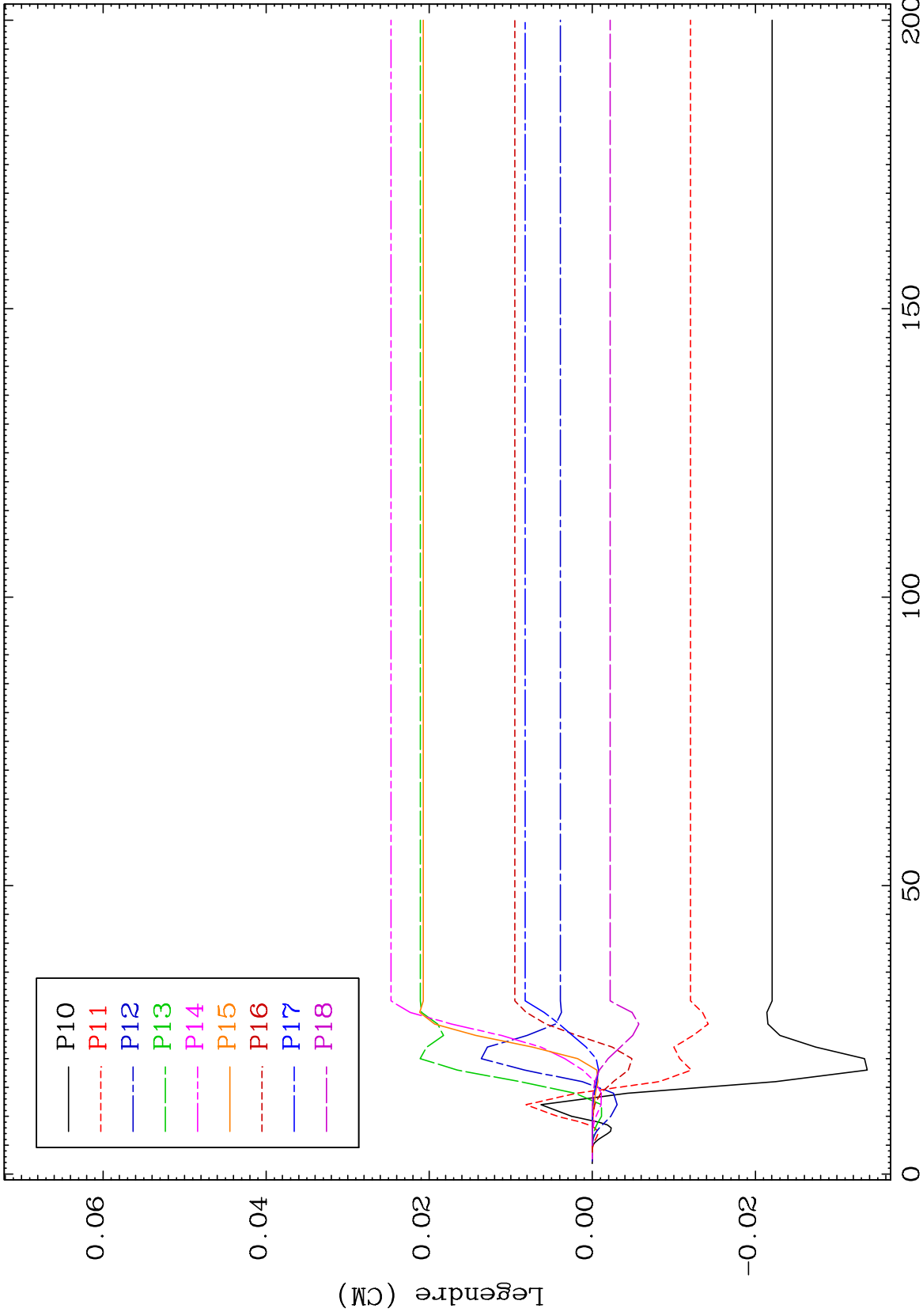
75 Incident Energy (MeV) 70-Yb-170



MAT 7031

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

70-Yb-170



77

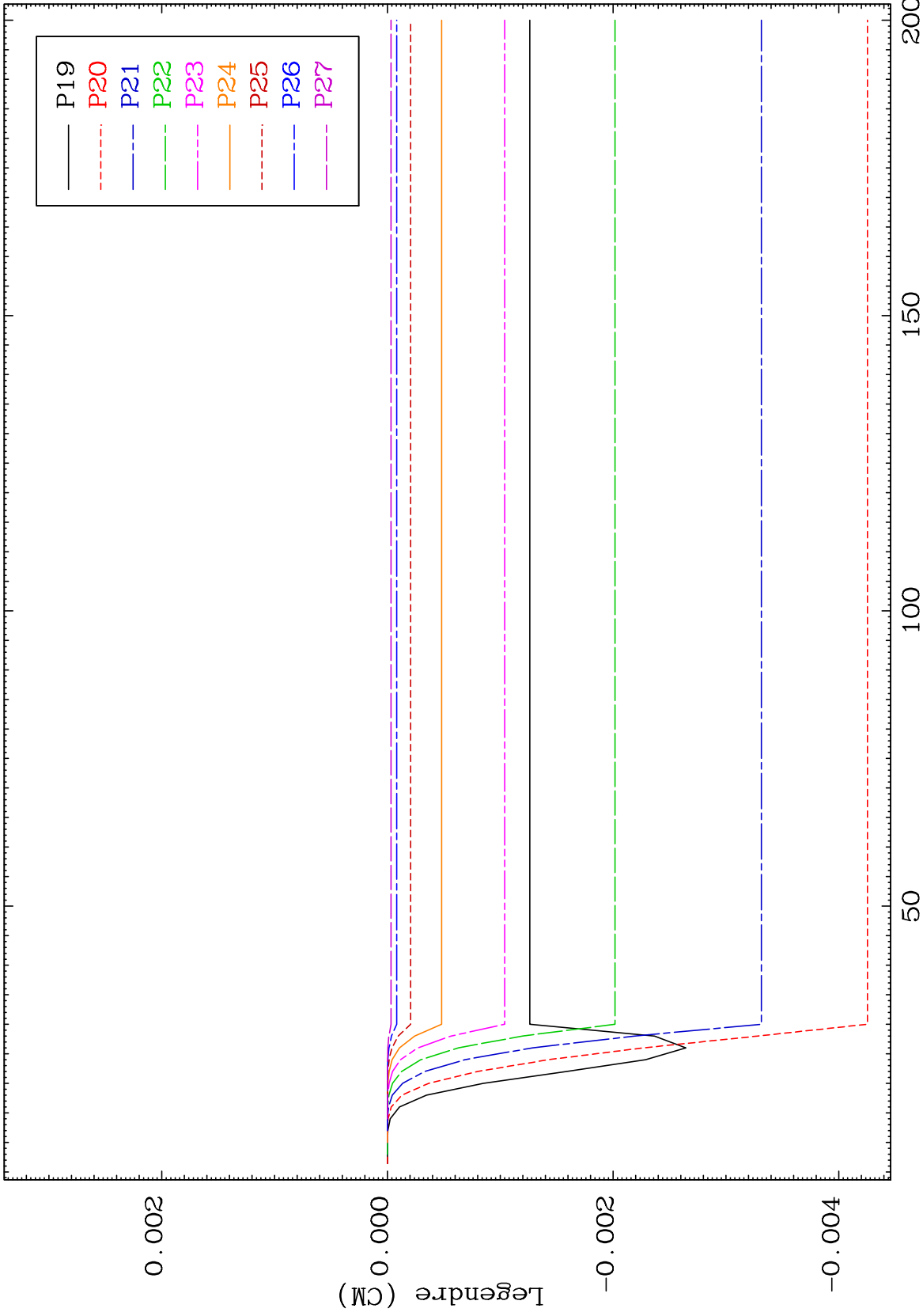
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170

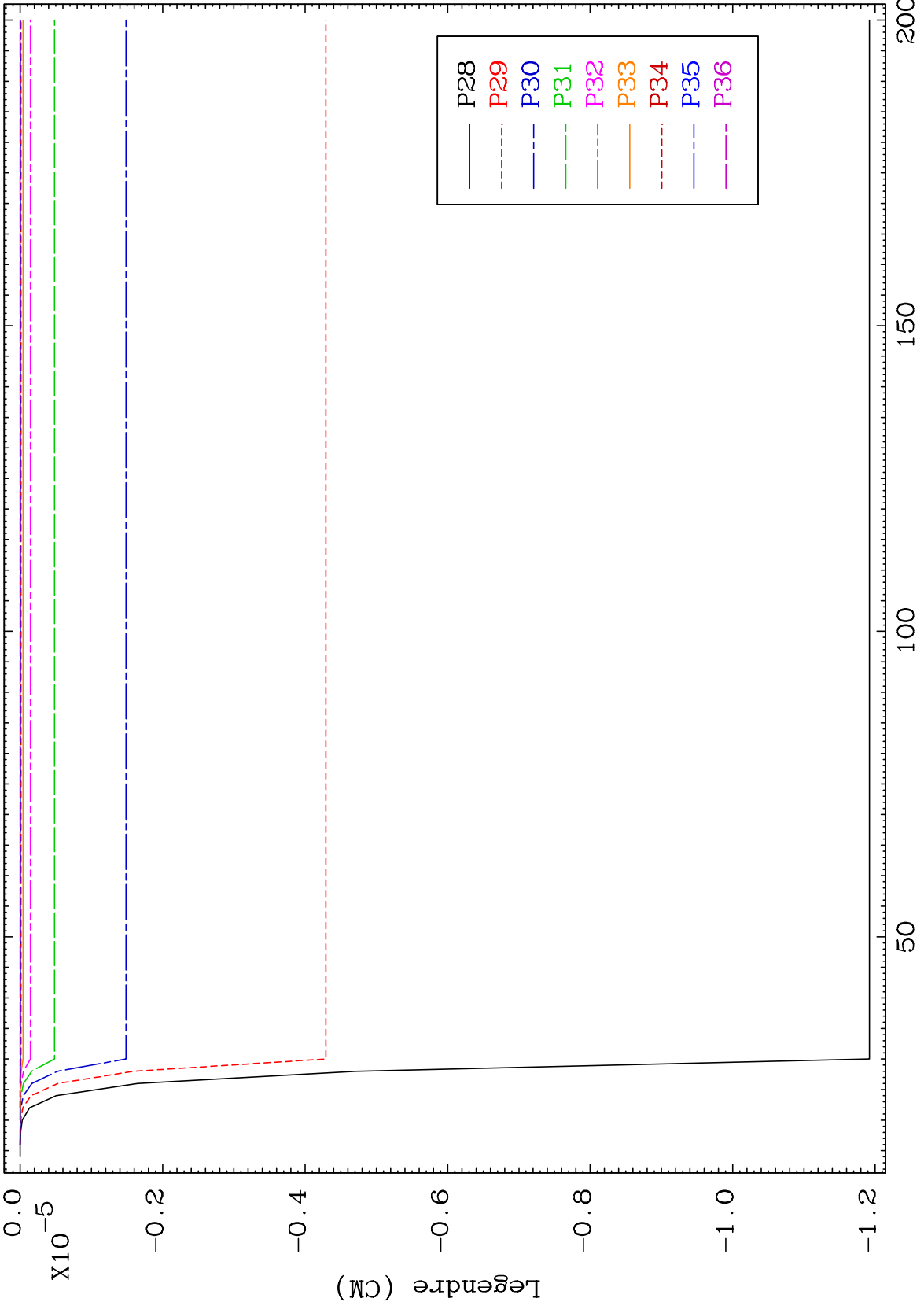


78

Incident Energy (MeV)

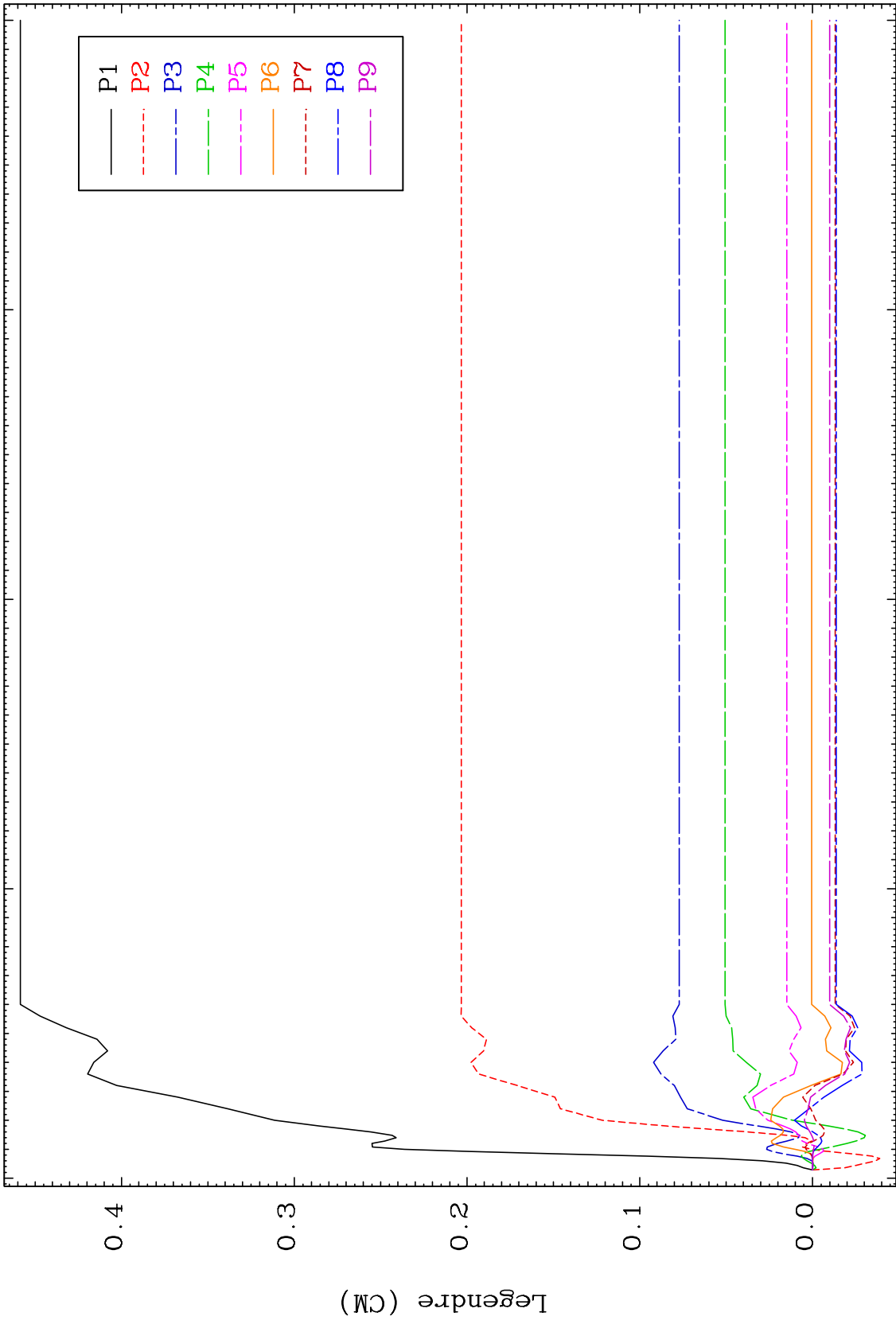
70-Yb-170

MAT 7031 MT= 66 (n,n') Level Legendre Coefficients 70-Yb-170



79 Incident Energy (MeV) 70-Yb-170

MAT 7031 MT= 67 (n,n') Level Legendre Coefficients 70-Yb-170

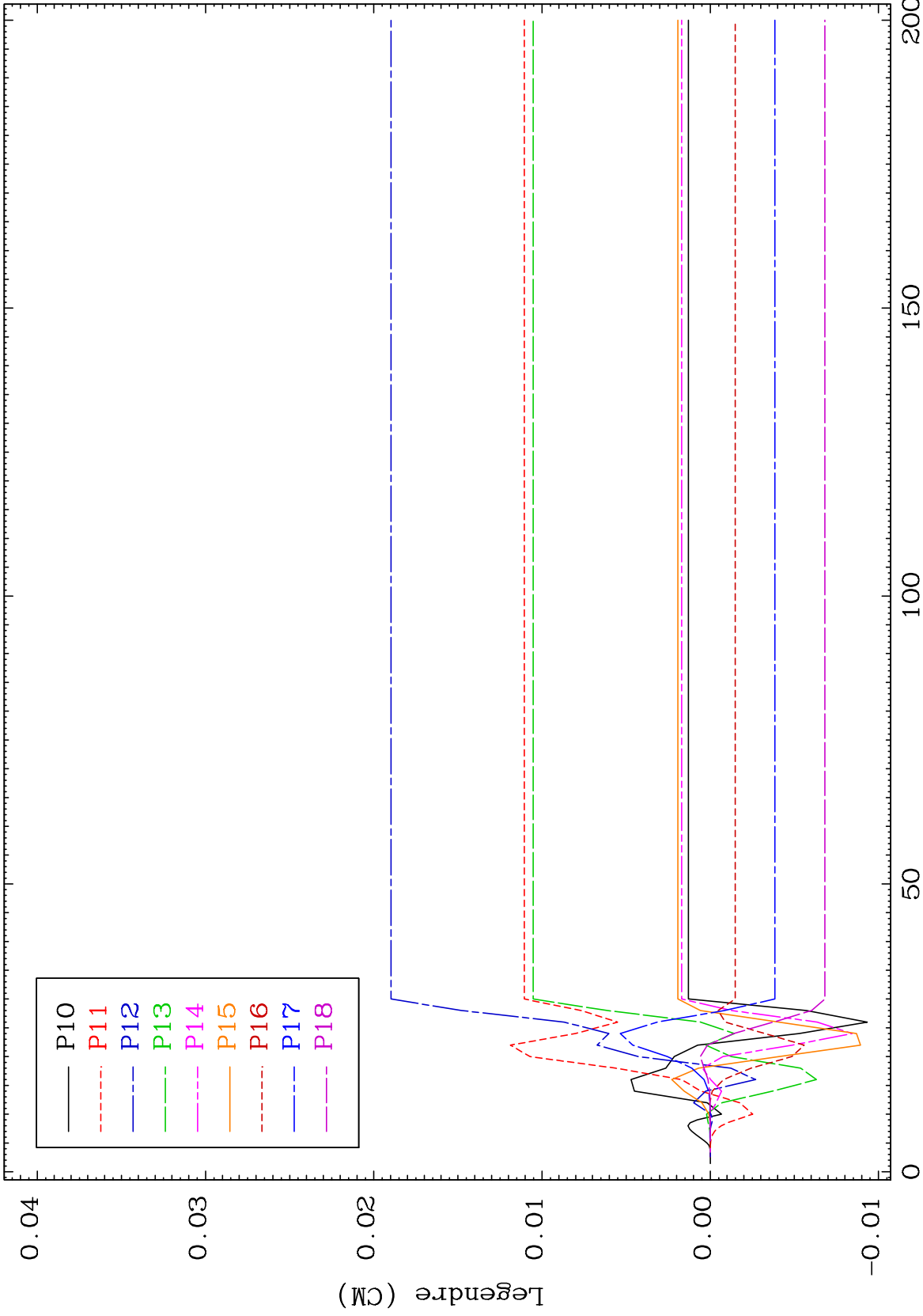


80 Incident Energy (MeV) 70-Yb-170

MAT 7031

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

70-Yb-170



81

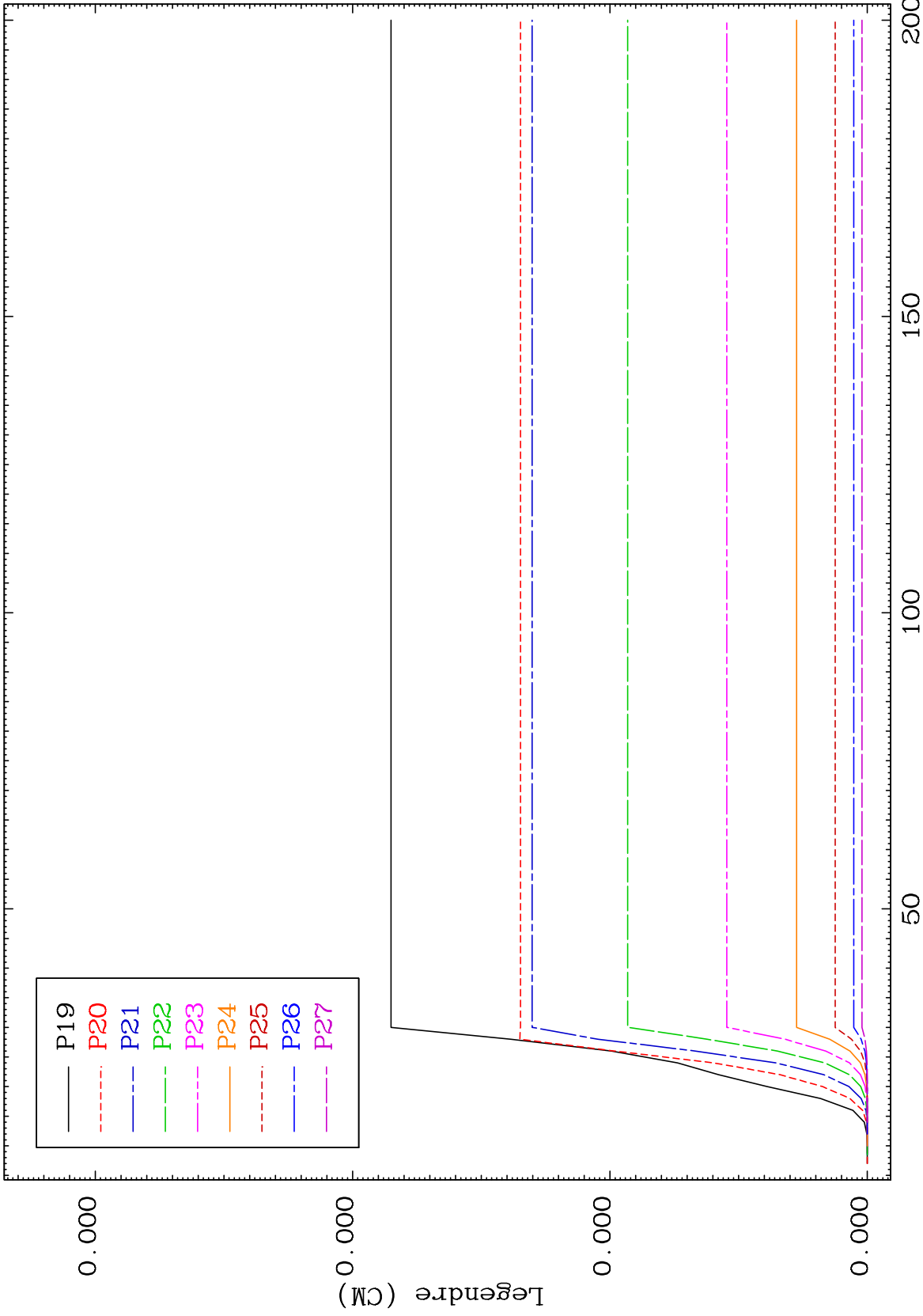
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



82

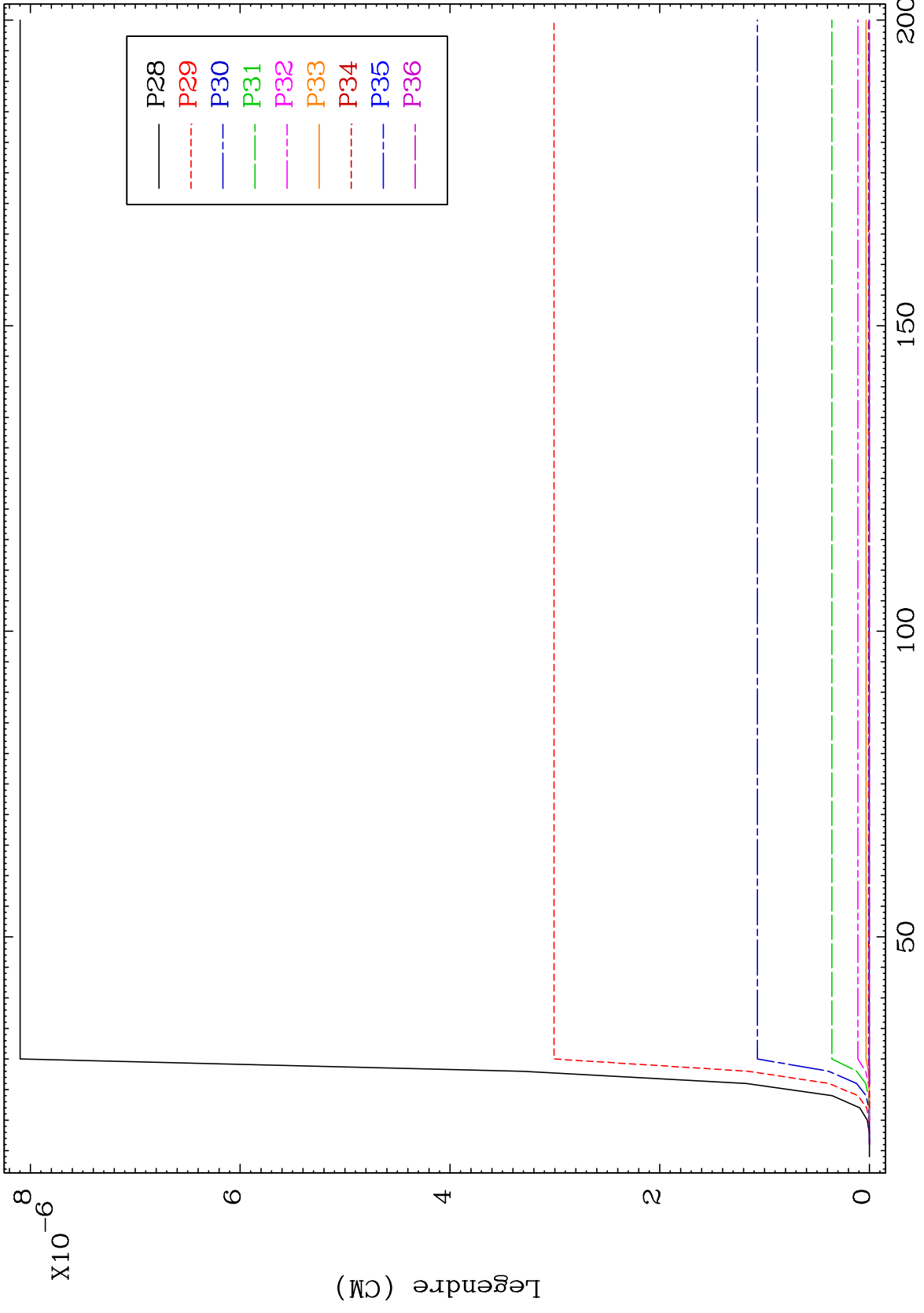
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

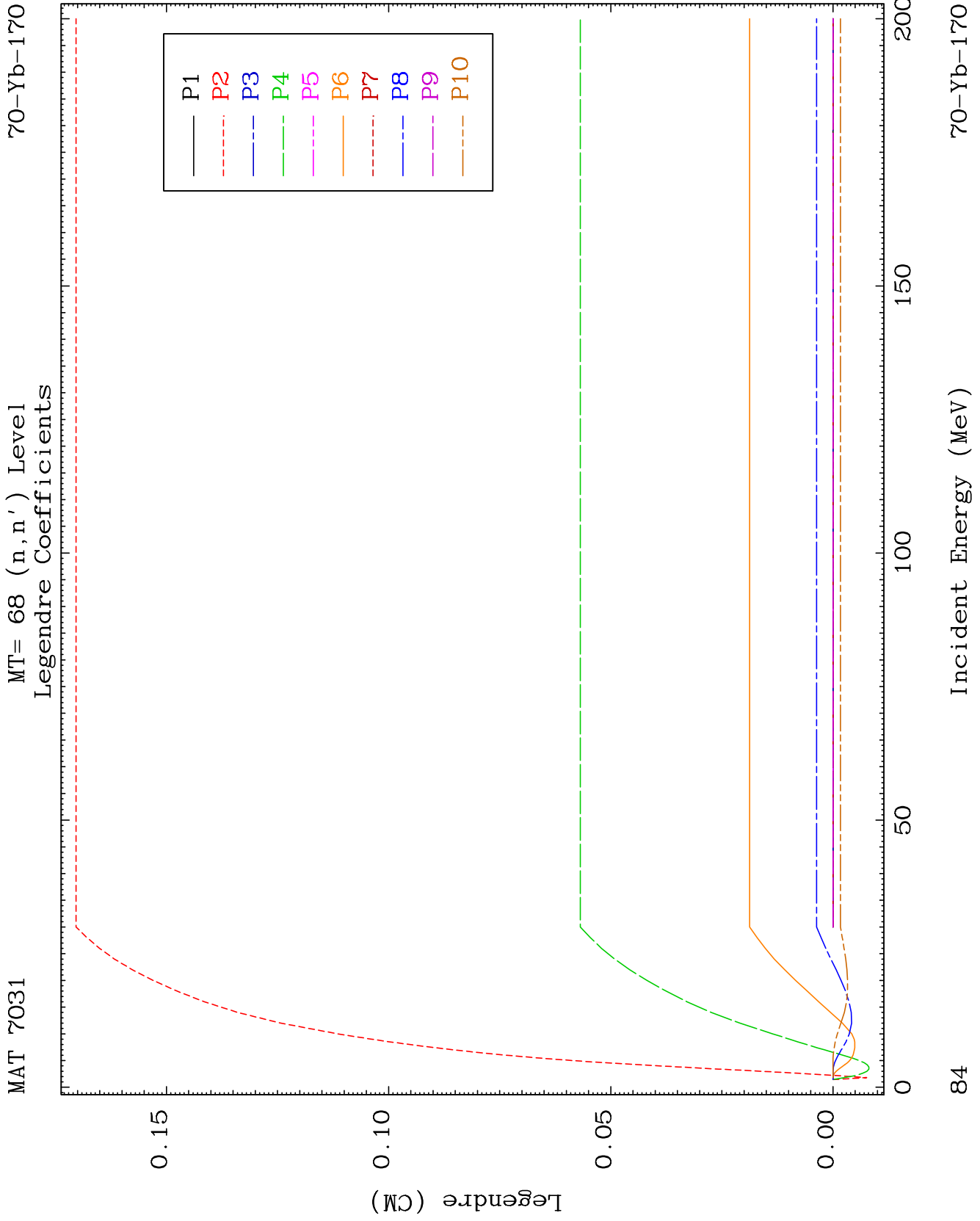
70-Yb-170



83

Incident Energy (MeV)

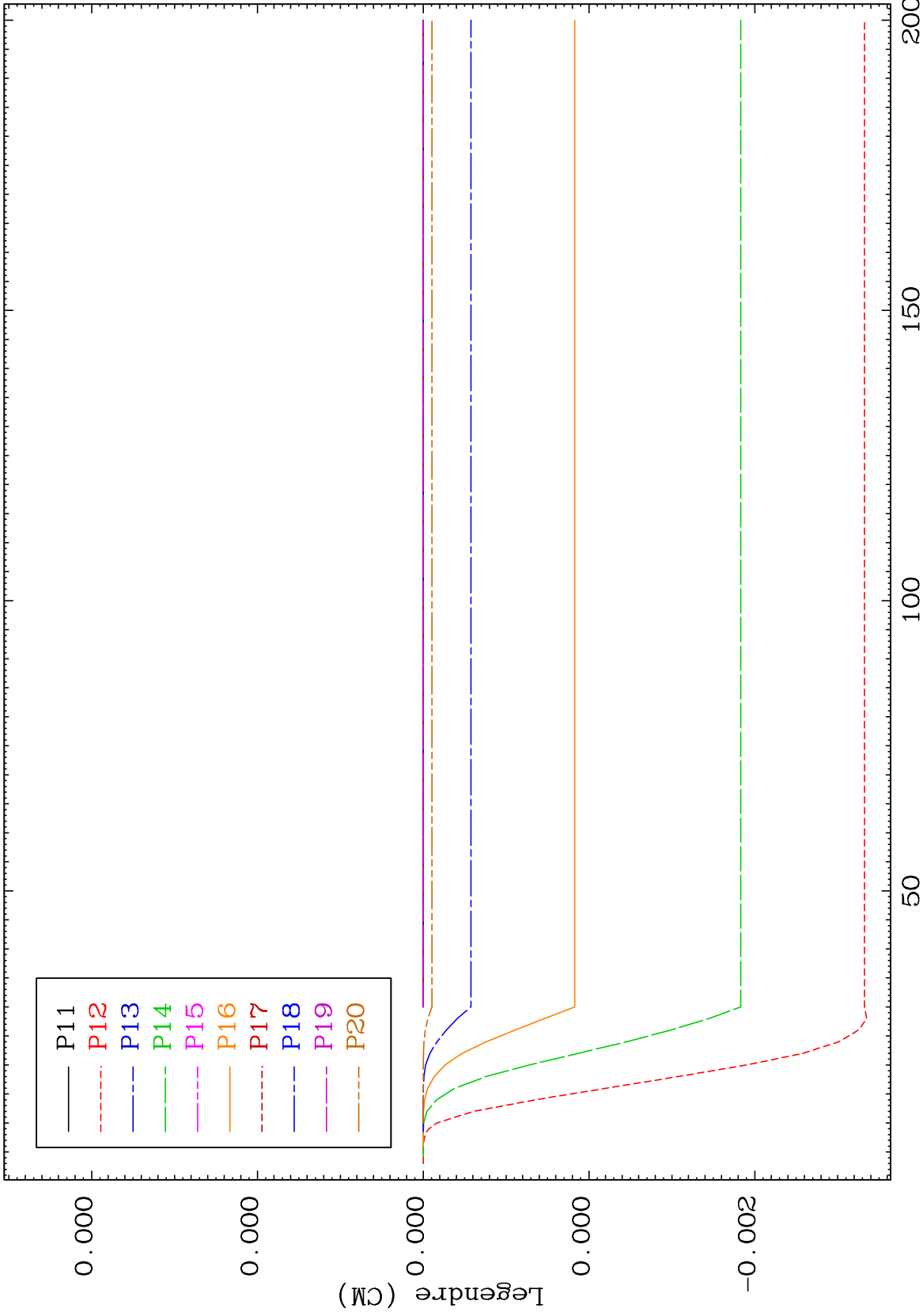
70-Yb-170



MAT 7031

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

70-Yb-170

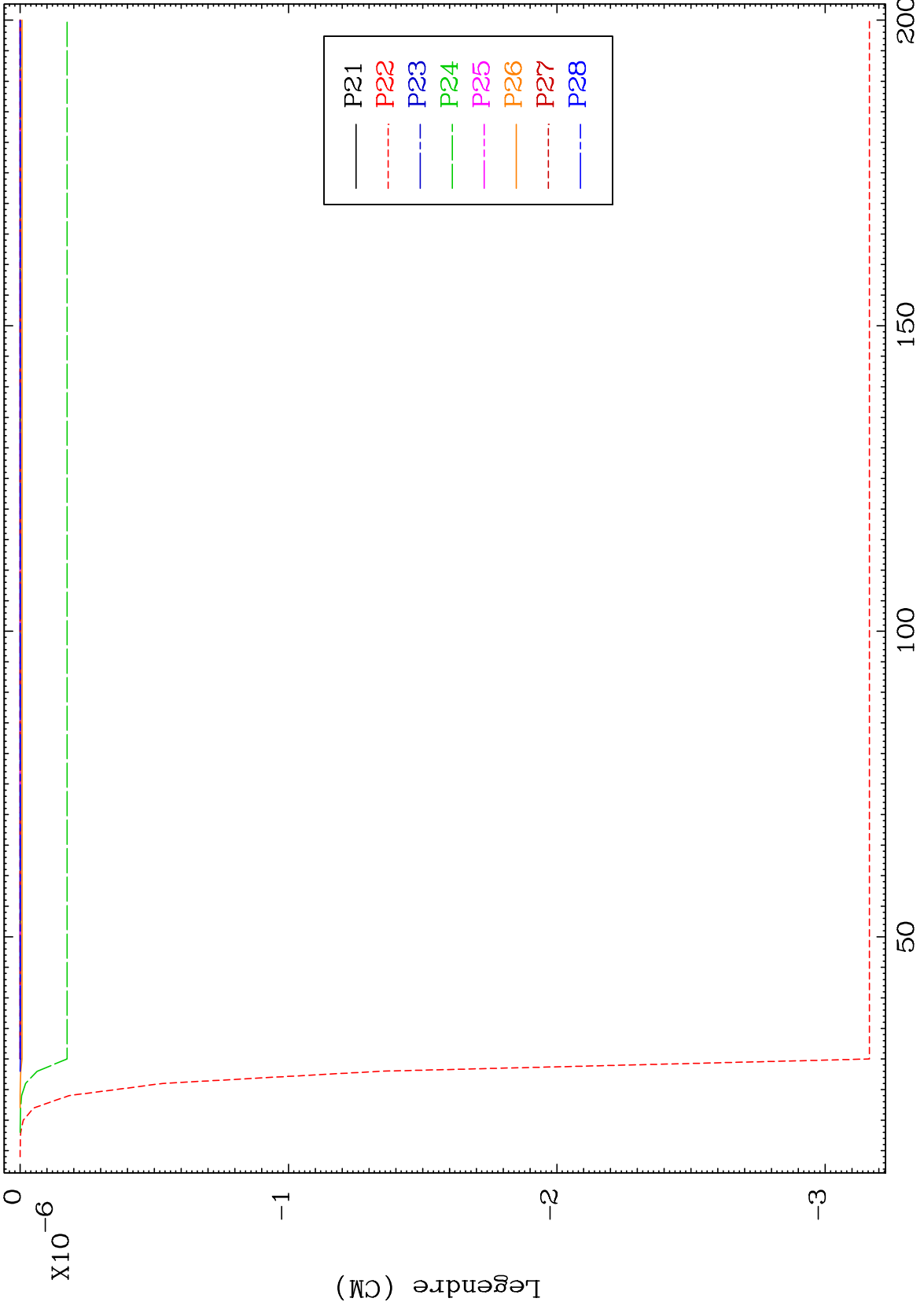


85

Incident Energy (MeV)

70-Yb-170

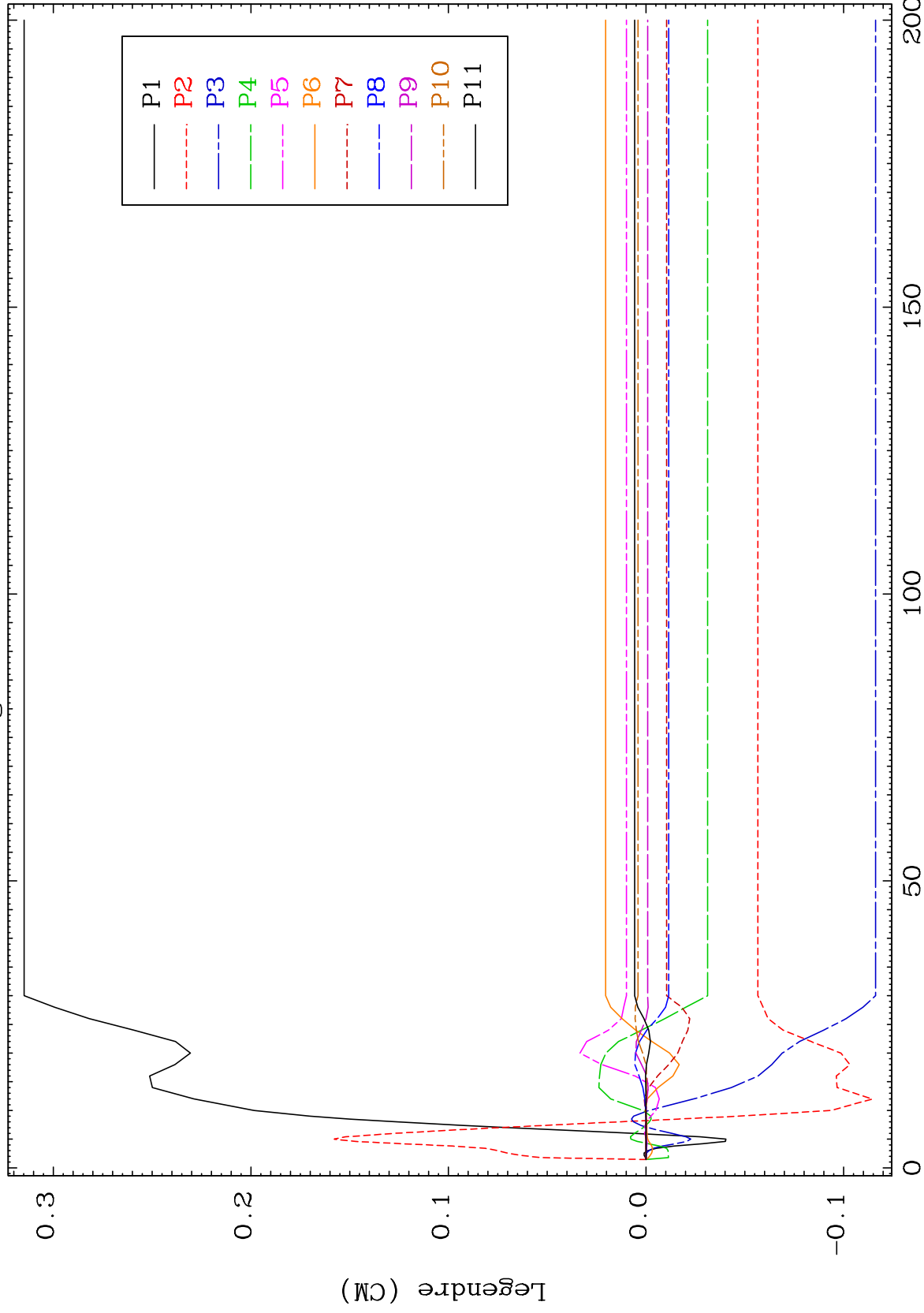
MAT 7031 MT= 68 (n,n') Level Legendre Coefficients 70-Yb-170



MAT 7031

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

70-Yb-170



87

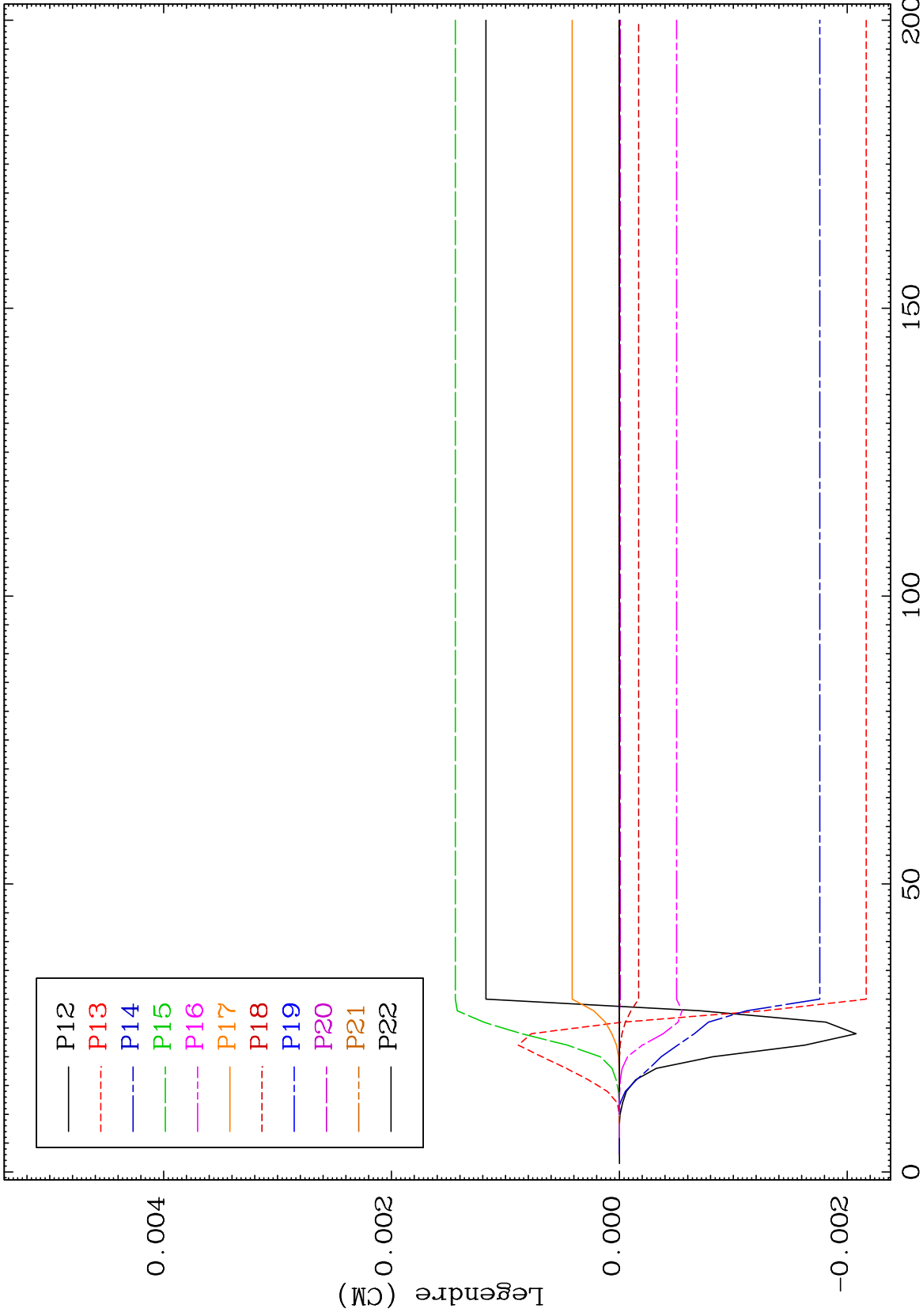
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



88

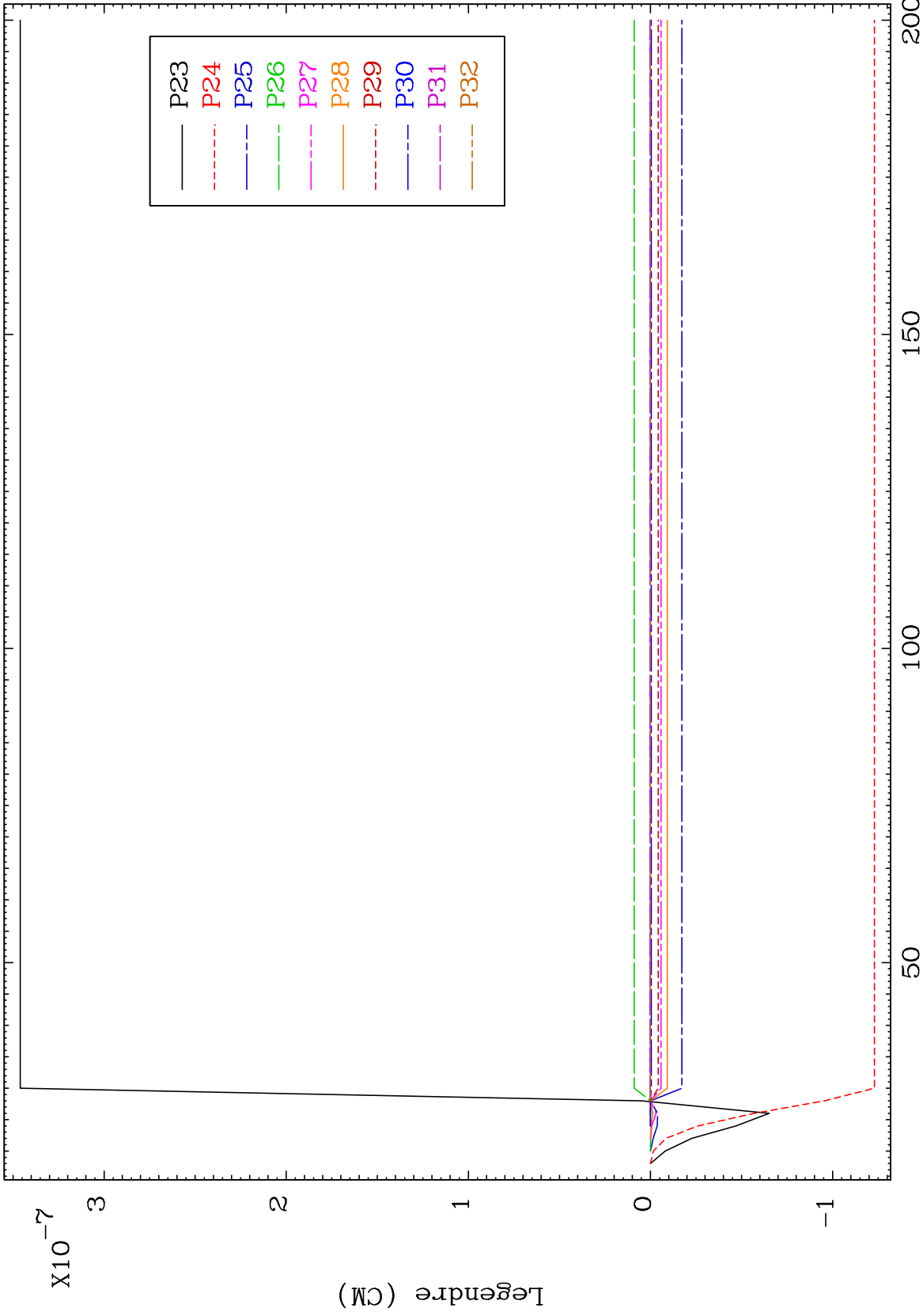
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



89

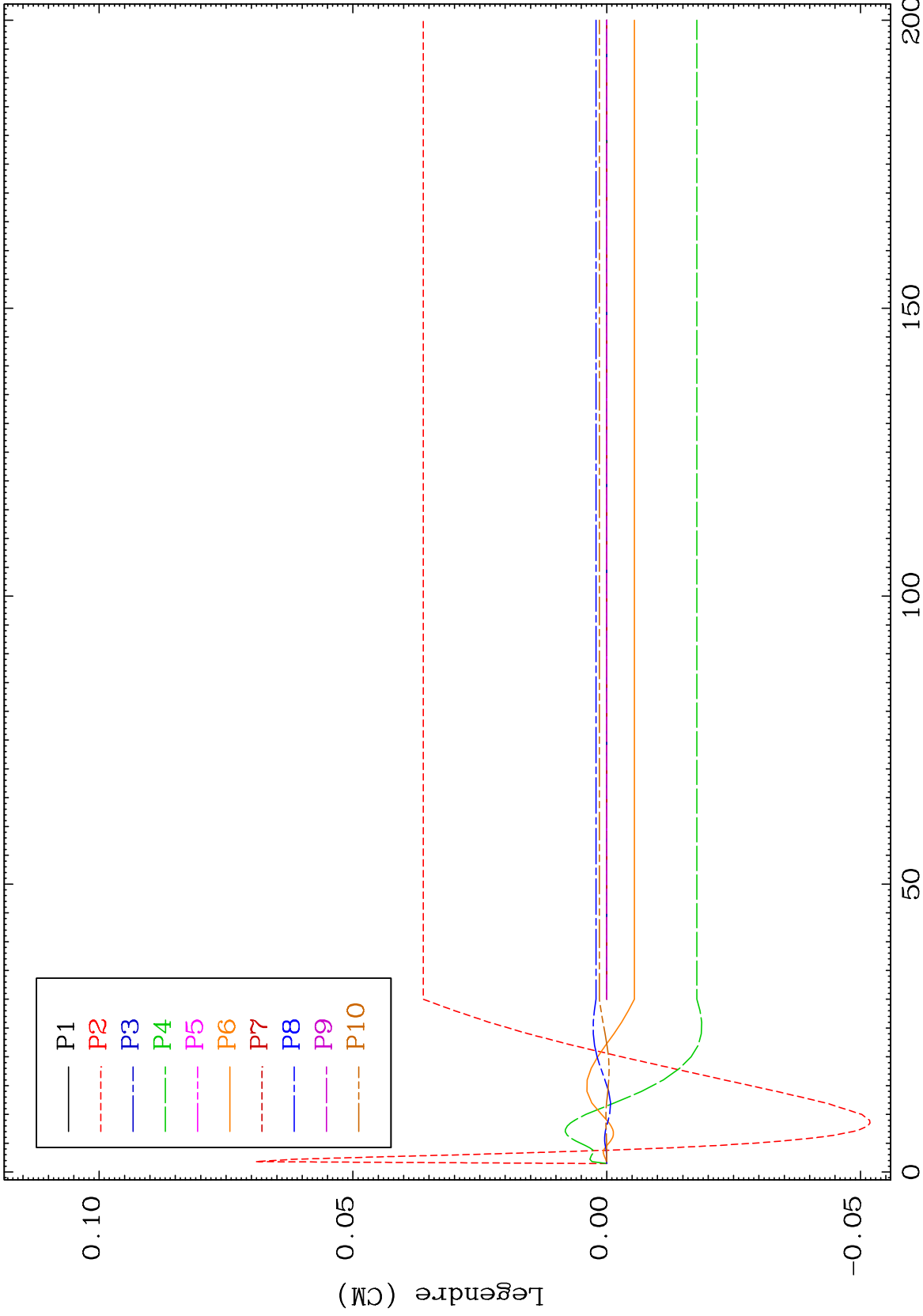
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

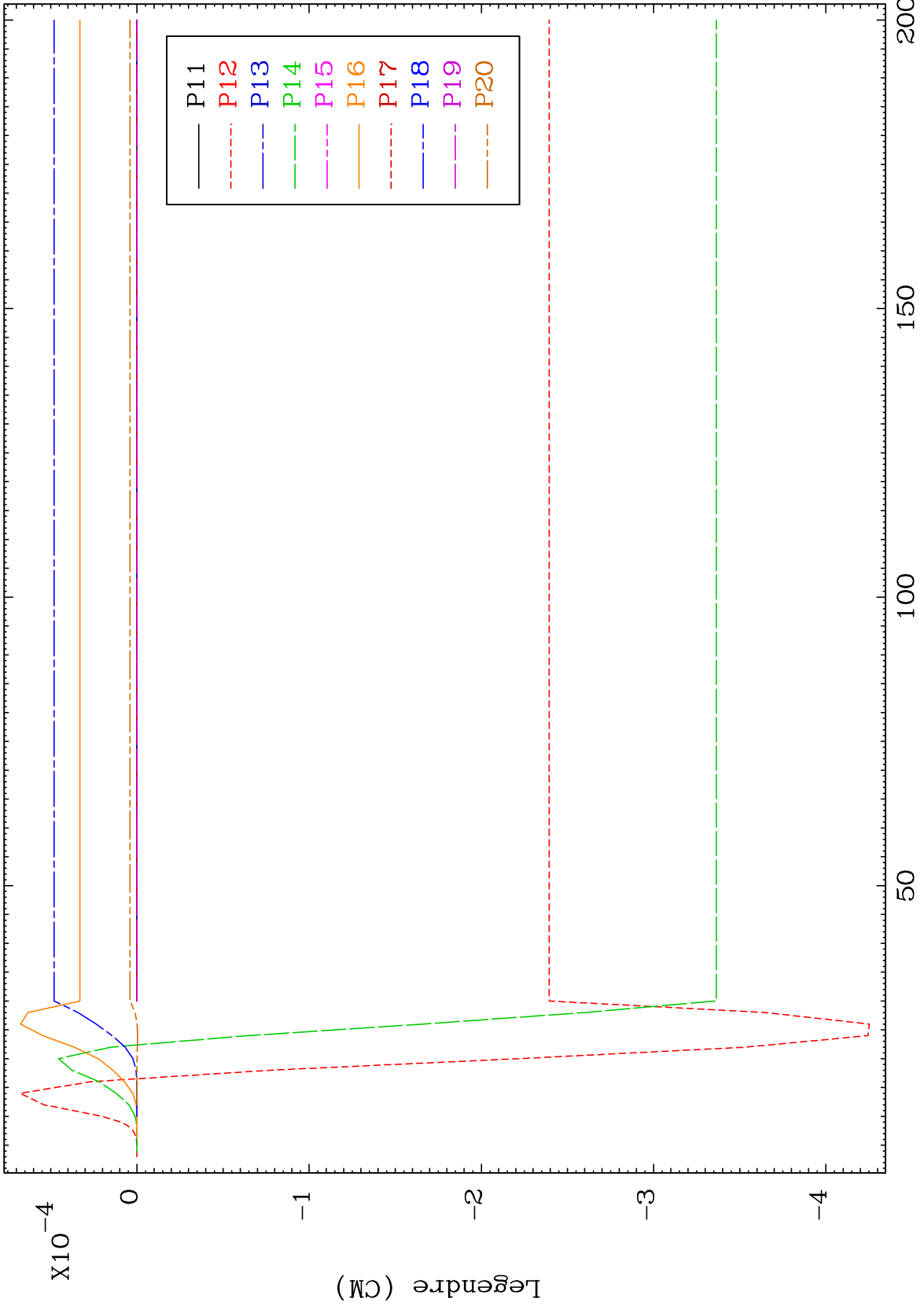
70-Yb-170



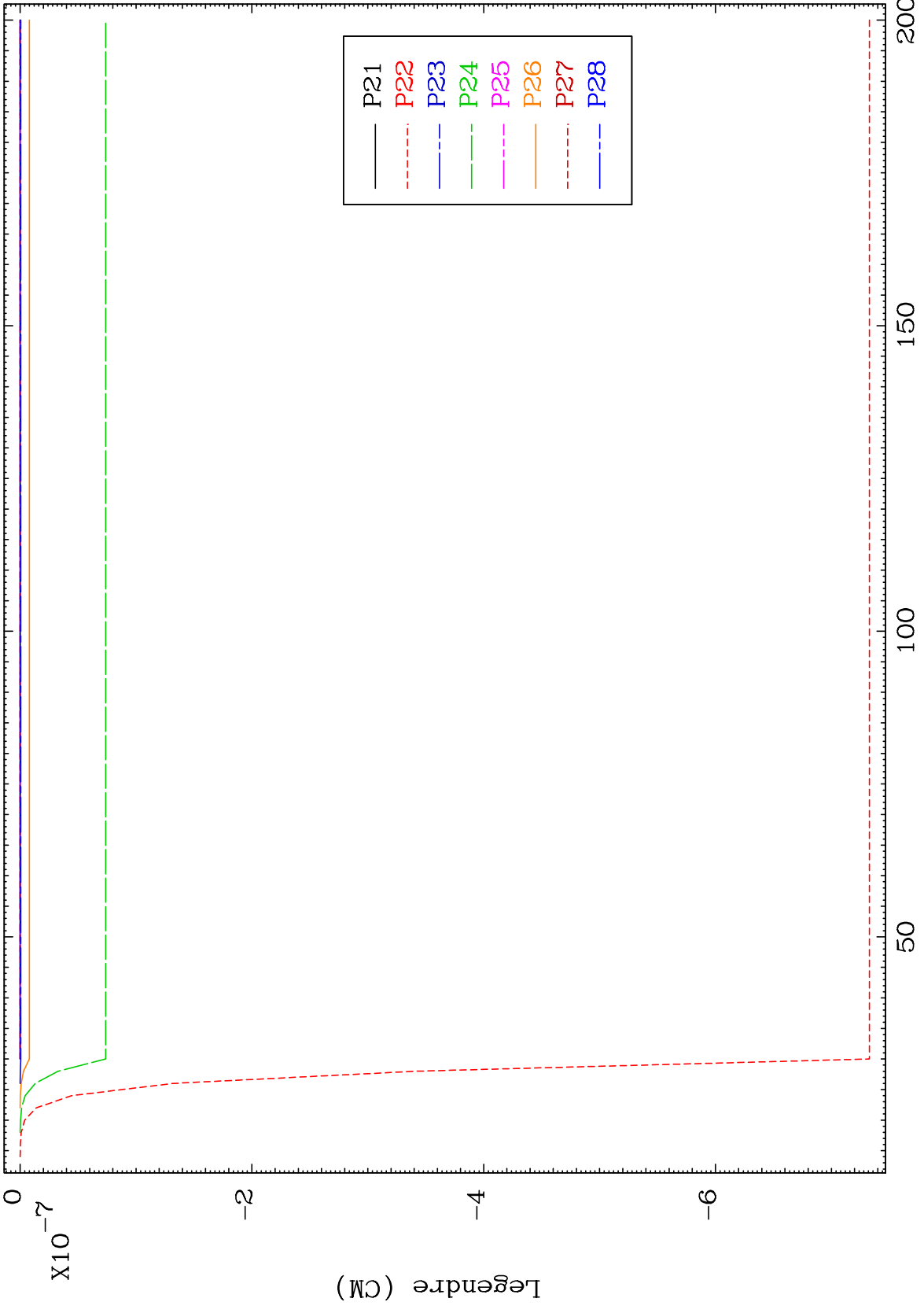
70-Yb-170

90

MAT 7031 MT= 70 (n,n') Level Legendre Coefficients 70-Yb-170



MAT 7031 MT= 70 (n,n') Level Legendre Coefficients 70-Yb-170

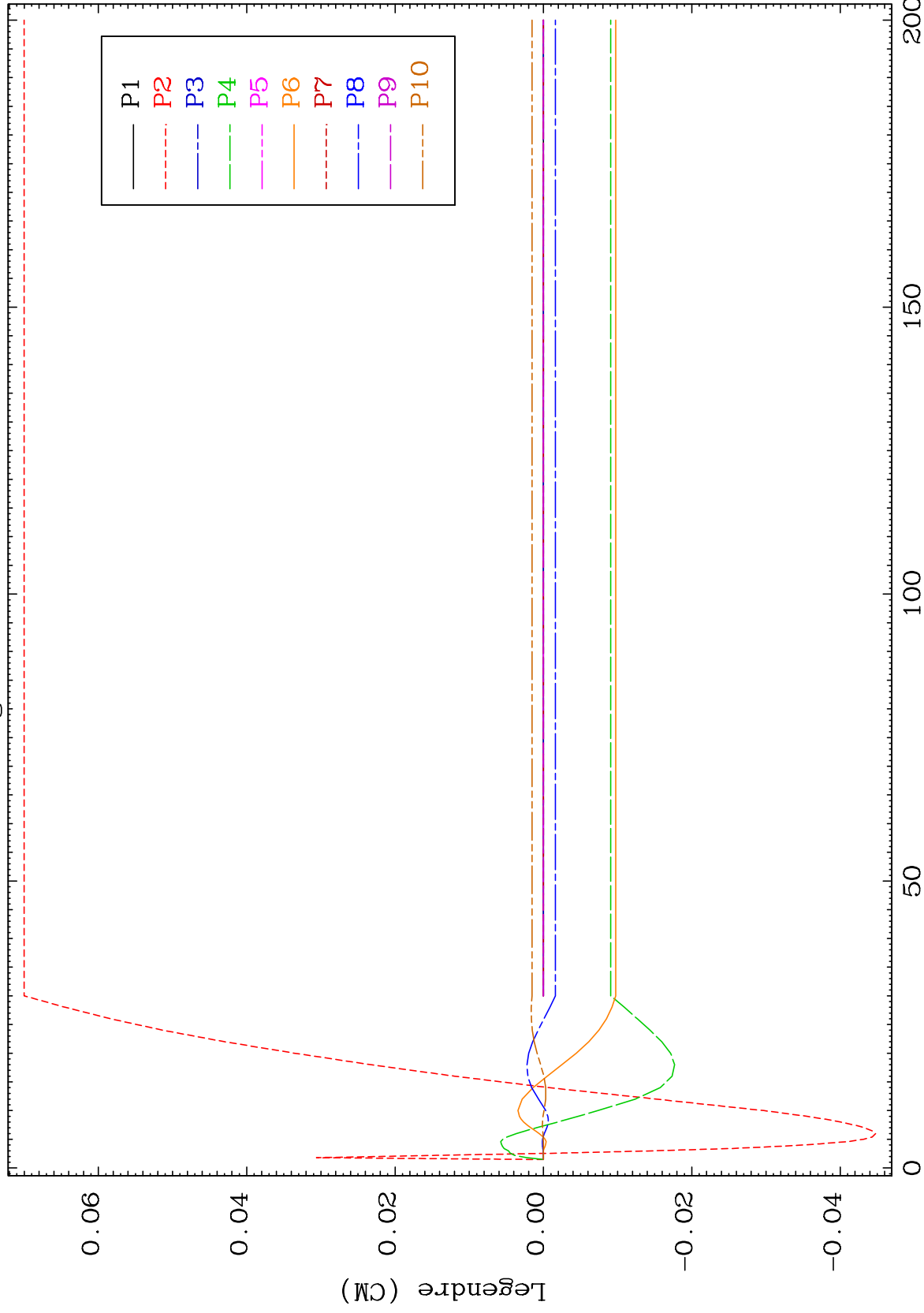


92 70-Yb-170

MAT 7031

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

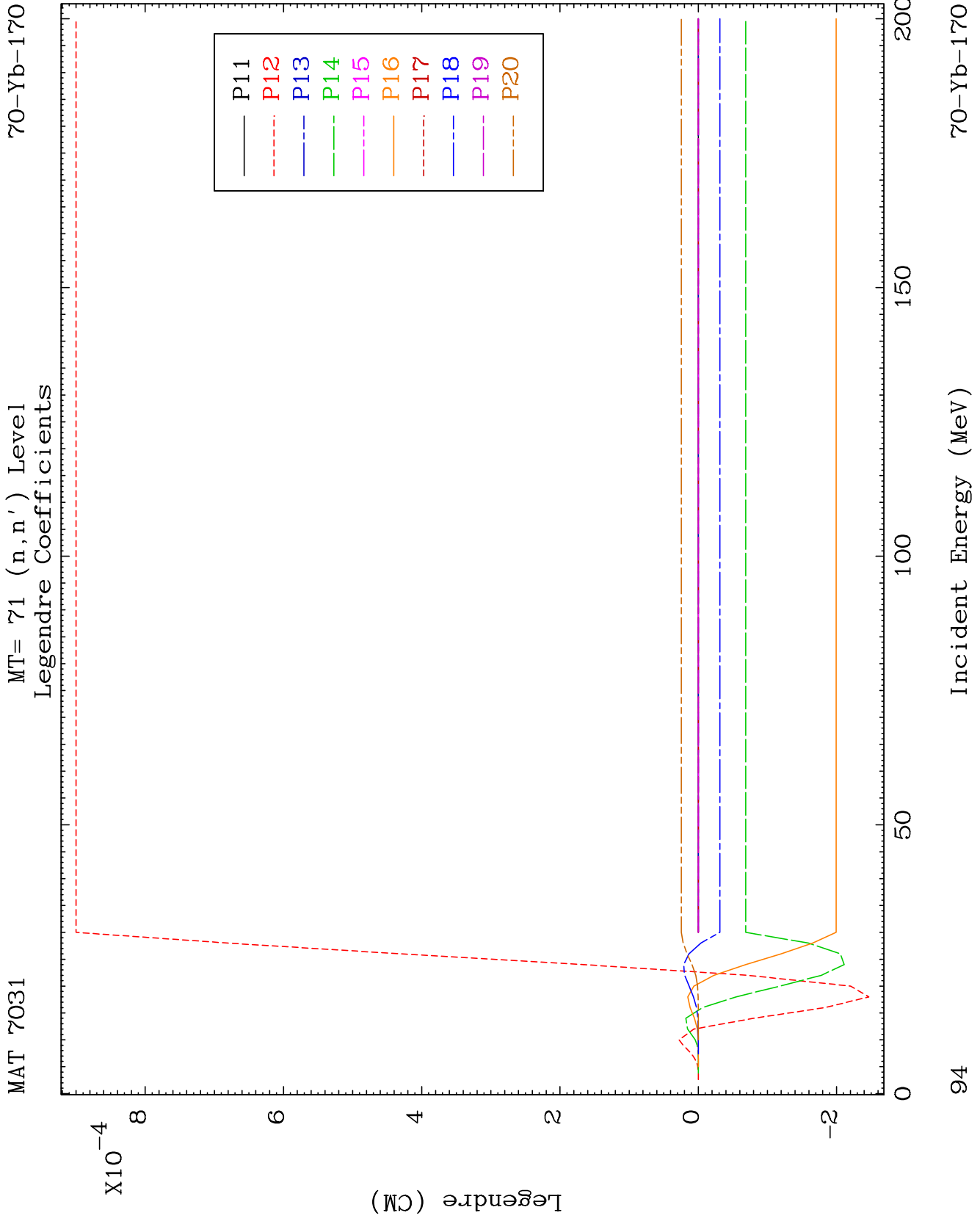
70-Yb-170



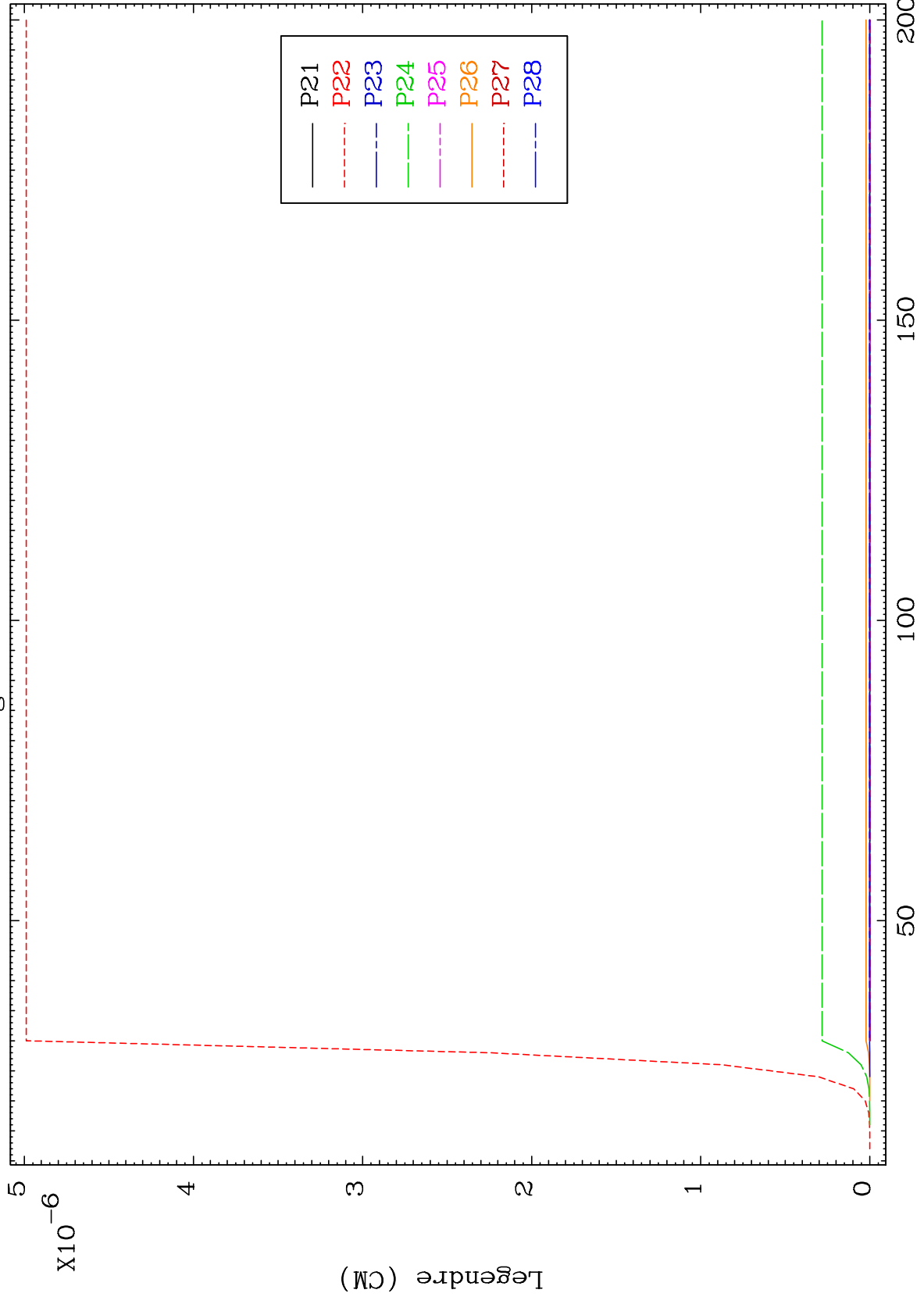
93

Incident Energy (MeV)

70-Yb-170

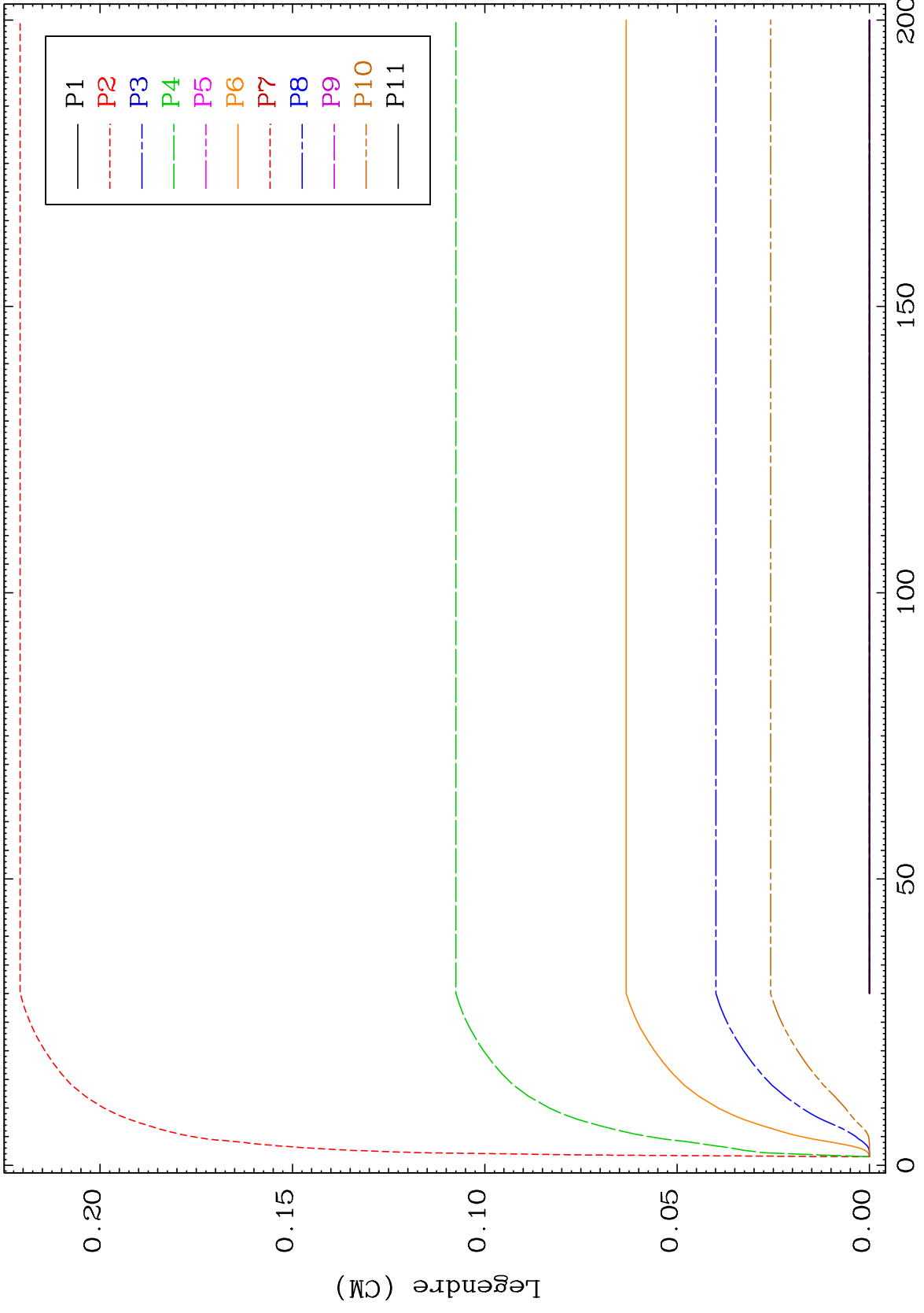


MAT 7031 MT= 71 (n,n') Level Legendre Coefficients 70-Yb-170



95 Incident Energy (MeV) 70-Yb-170

MAT 7031 MT= 72 (n,n') Level Legendre Coefficients 70-Yb-170

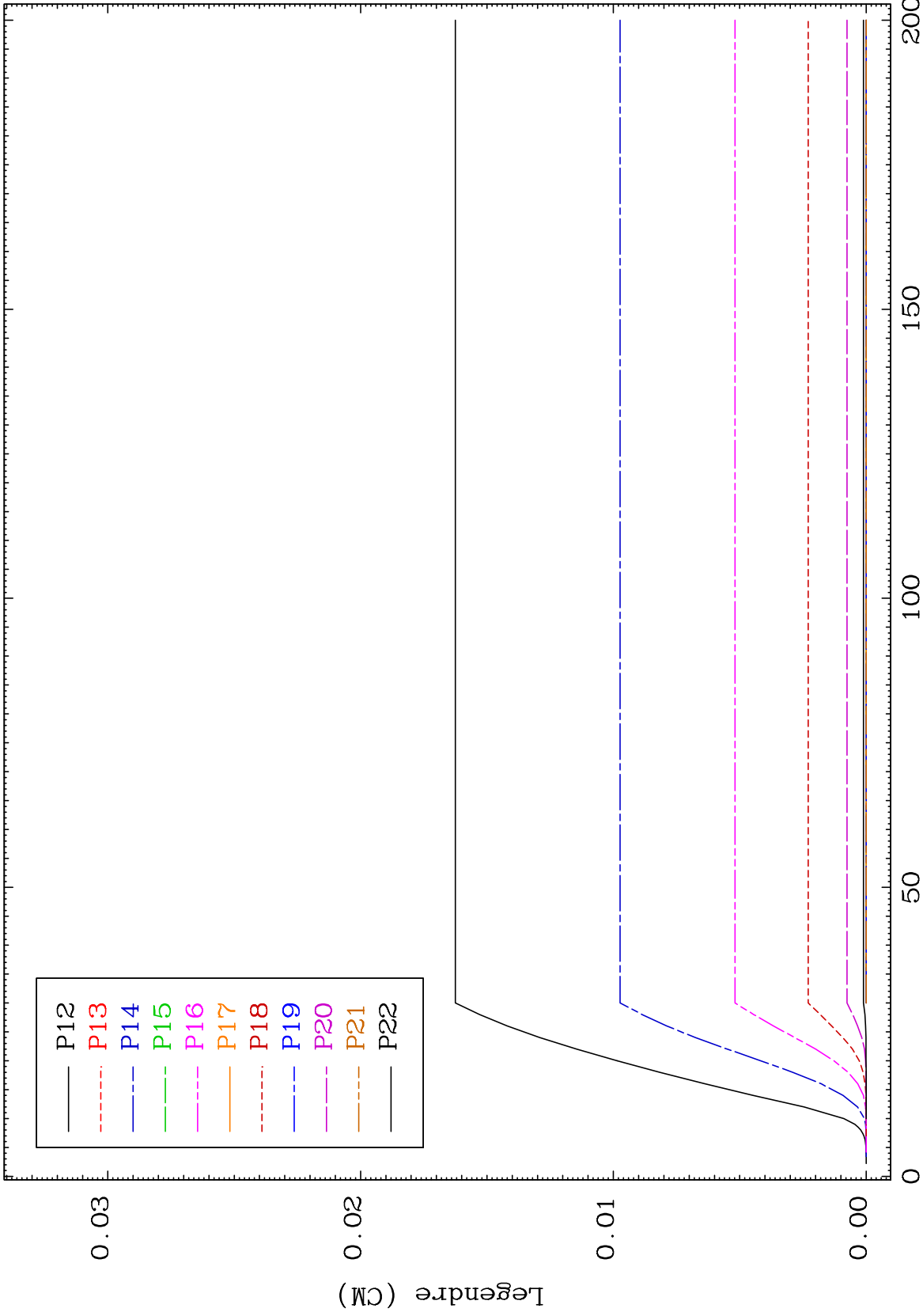


96 70-Yb-170

MAT 7031

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

70-Yb-170

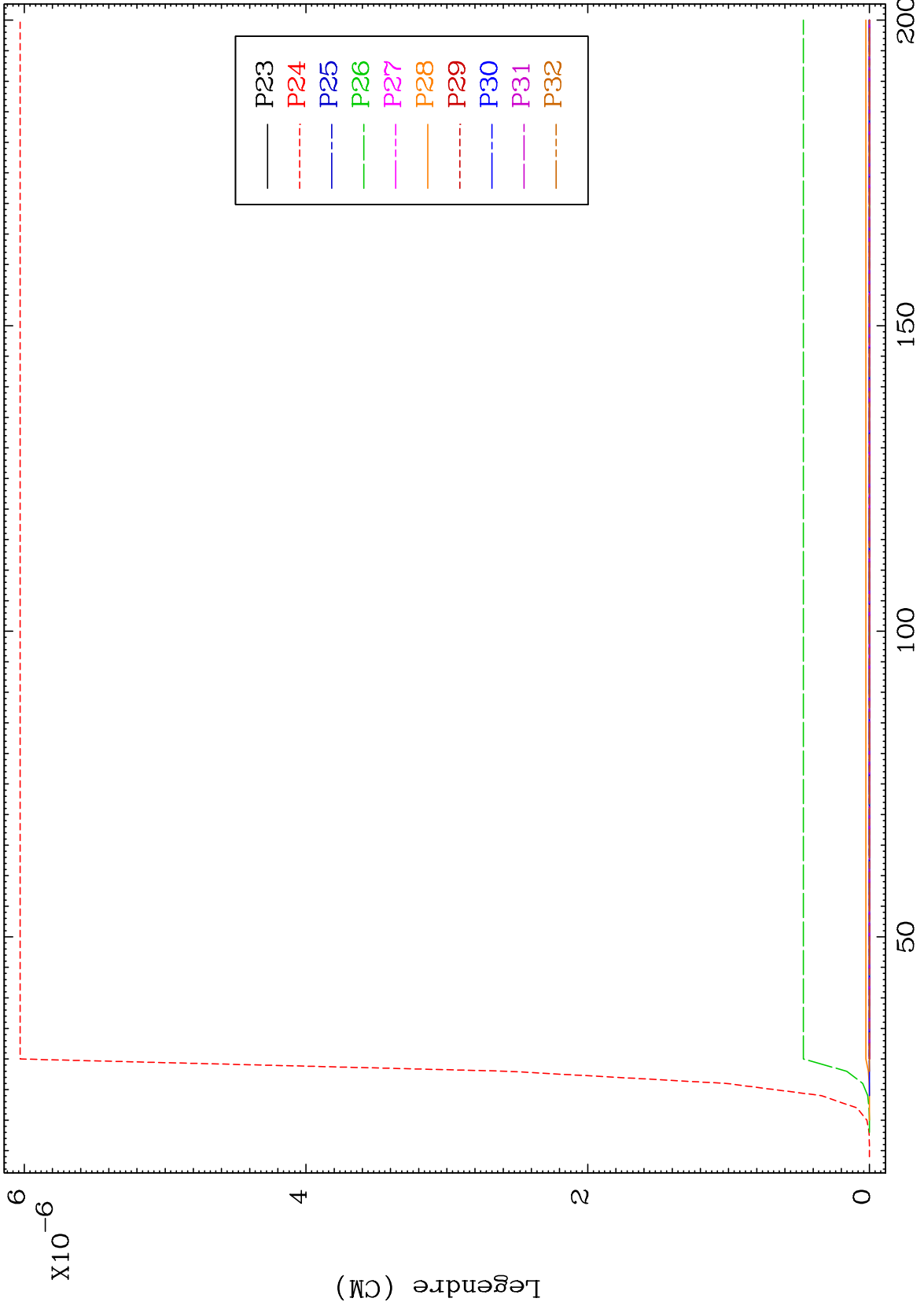


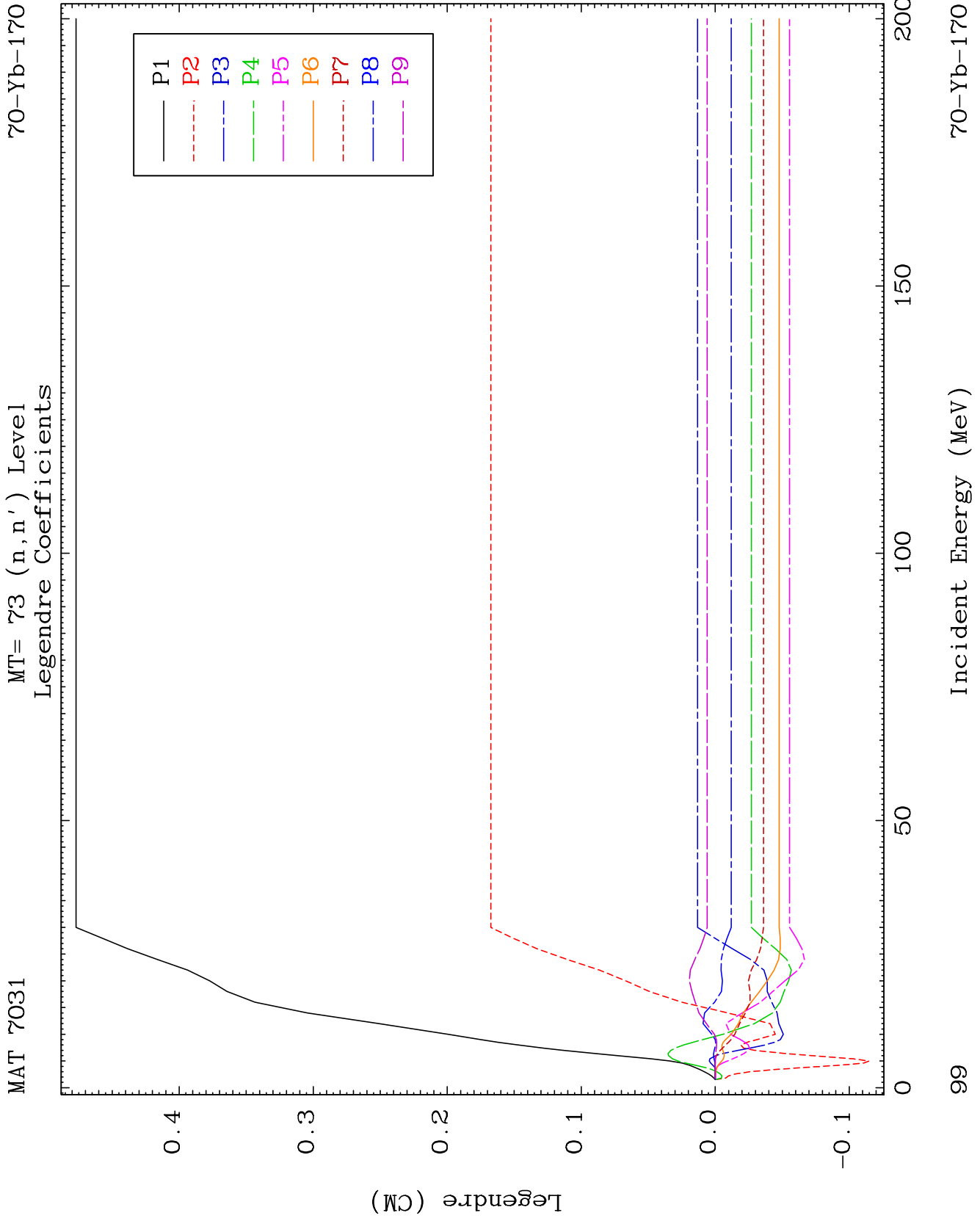
97

Incident Energy (MeV)

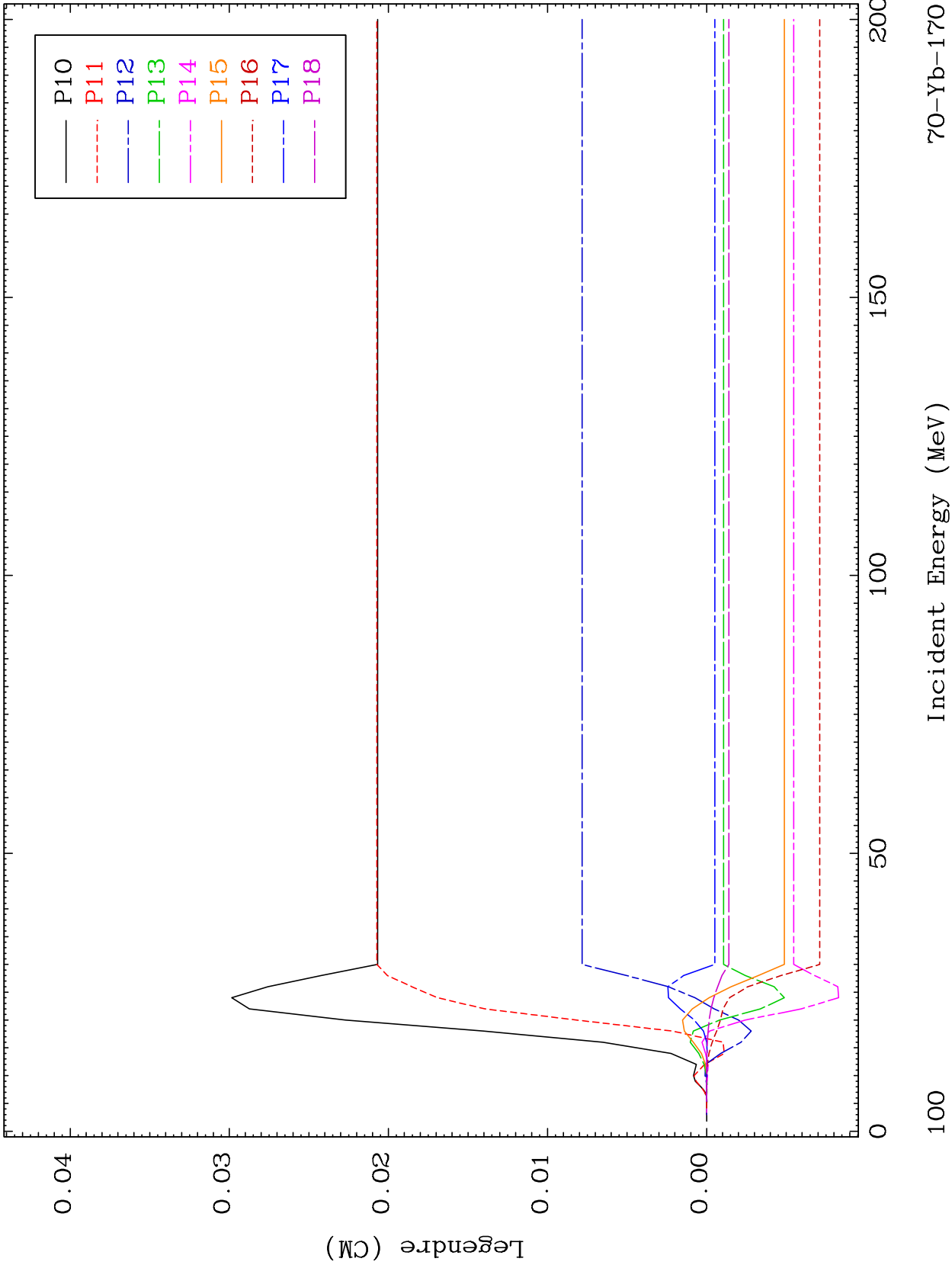
70-Yb-170

MAT 7031 MT= 72 (n,n') Level Legendre Coefficients 70-Yb-170





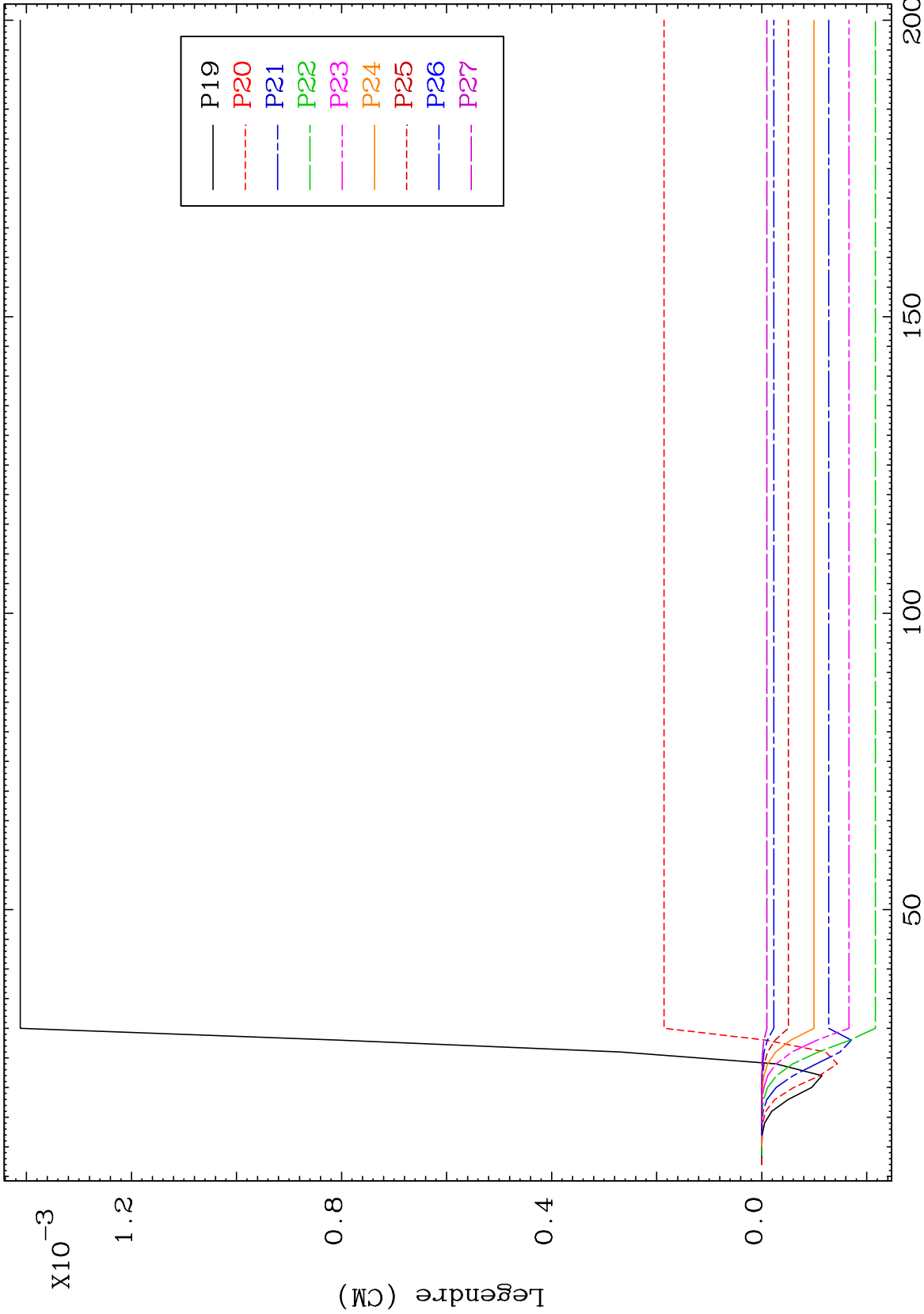
MAT 7031 MT= 73 (n,n') Level Legendre Coefficients 70-Yb-170



MAT 7031

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

70-Yb-170

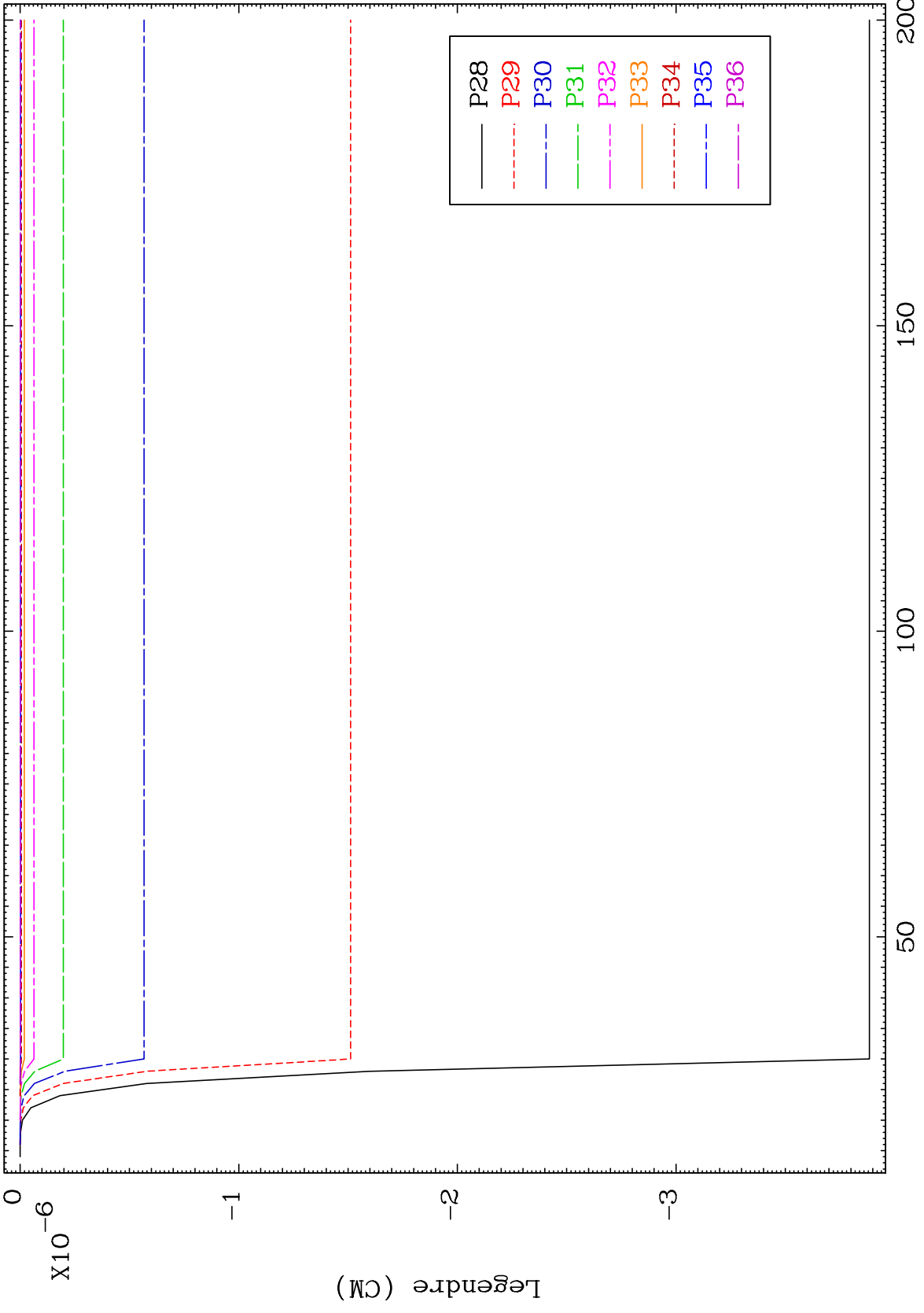


101

Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 73 (n,n') Level Legendre Coefficients 70-Yb-170

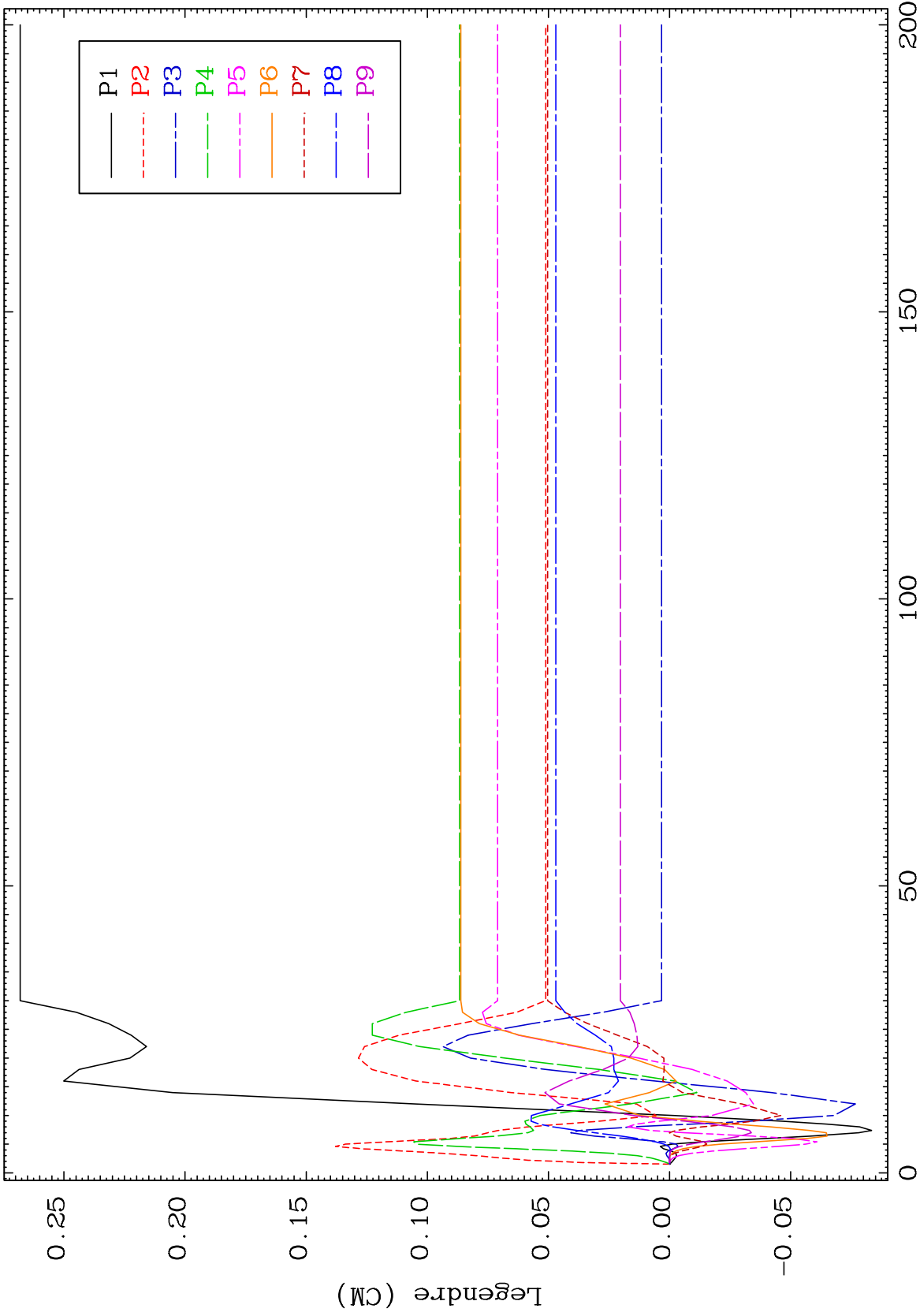


102 70-Yb-170

MAT 7031

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

70-Yb-170



103

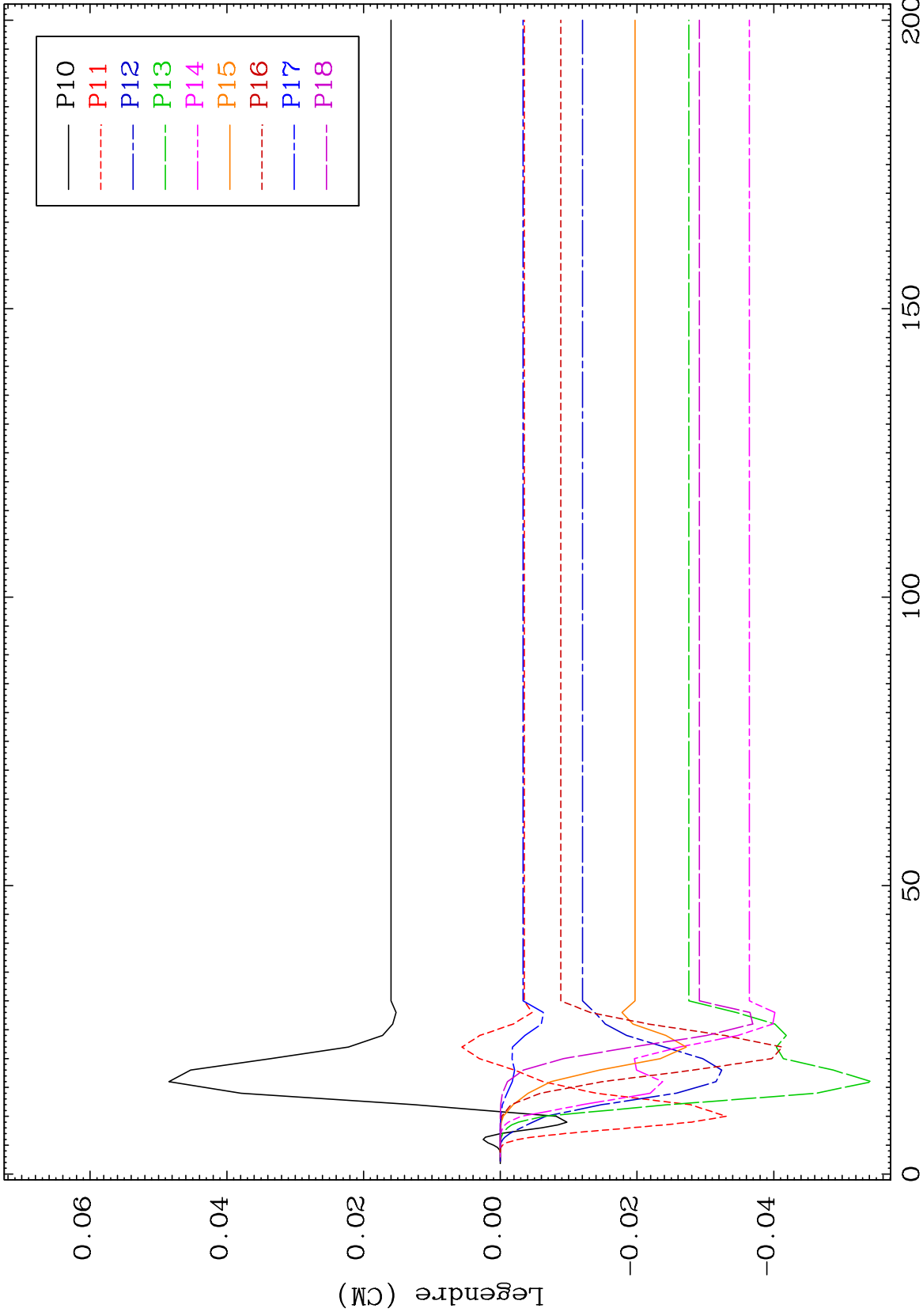
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



104

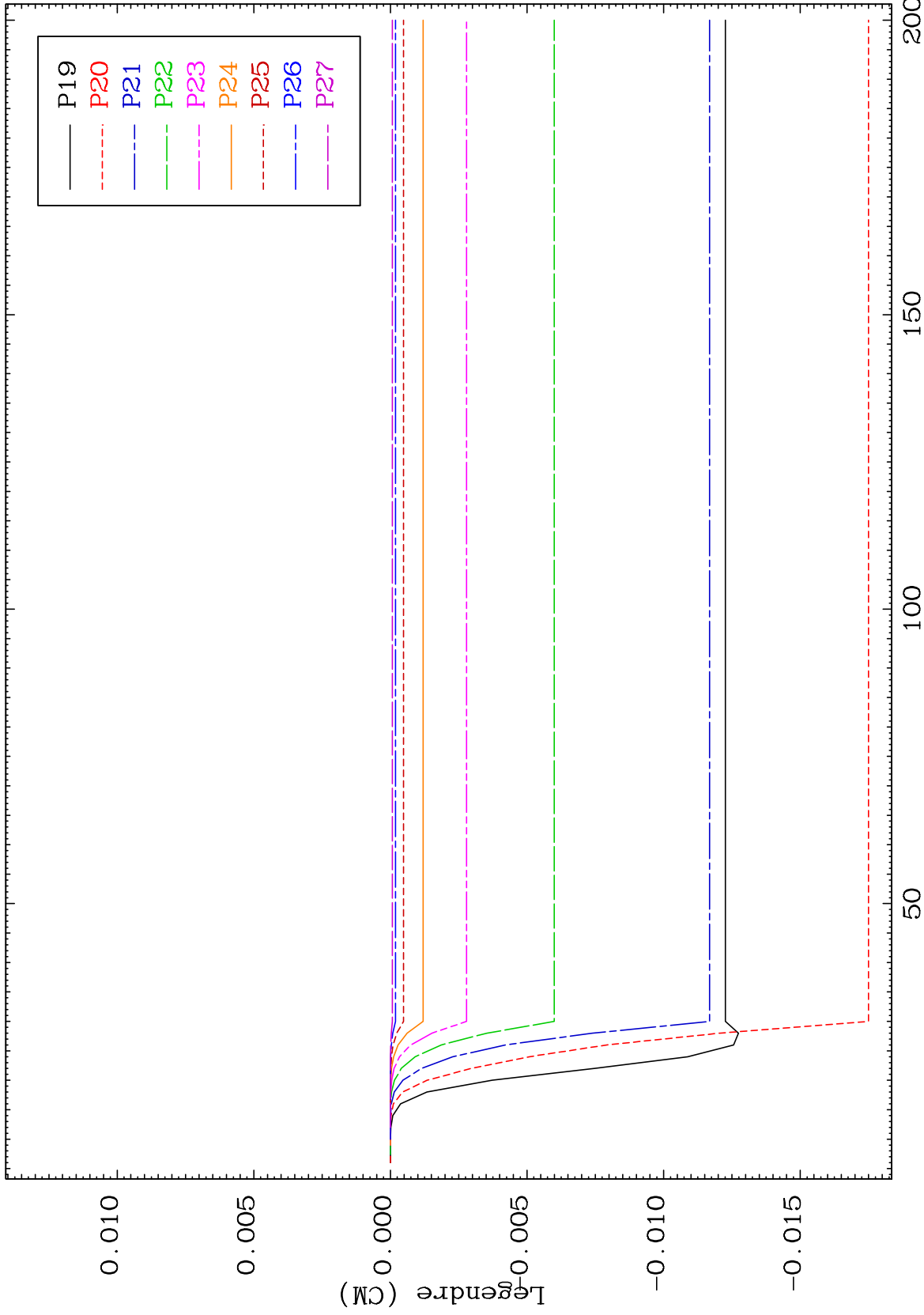
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170

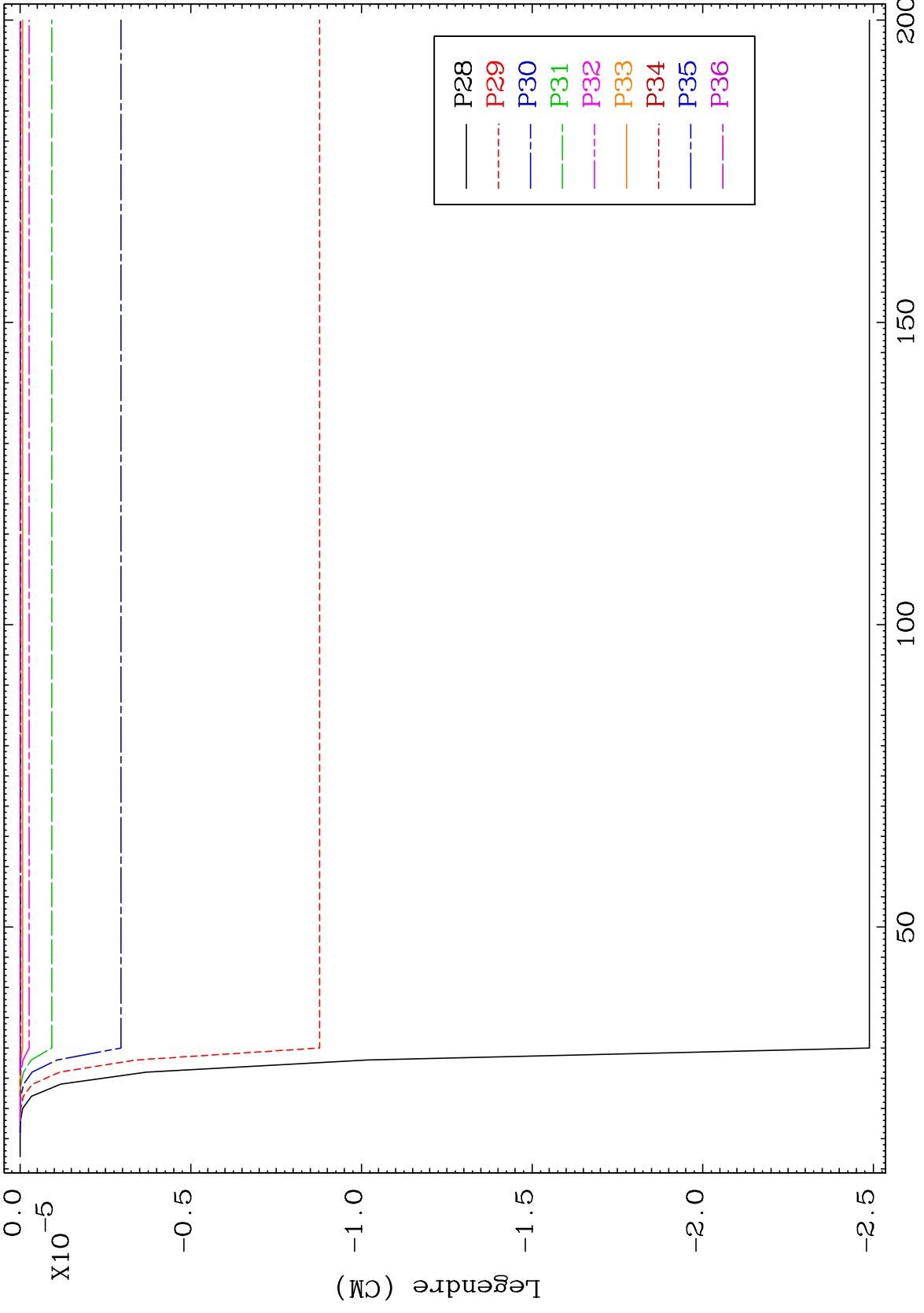


105

Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 74 (n,n') Level Legendre Coefficients 70-Yb-170

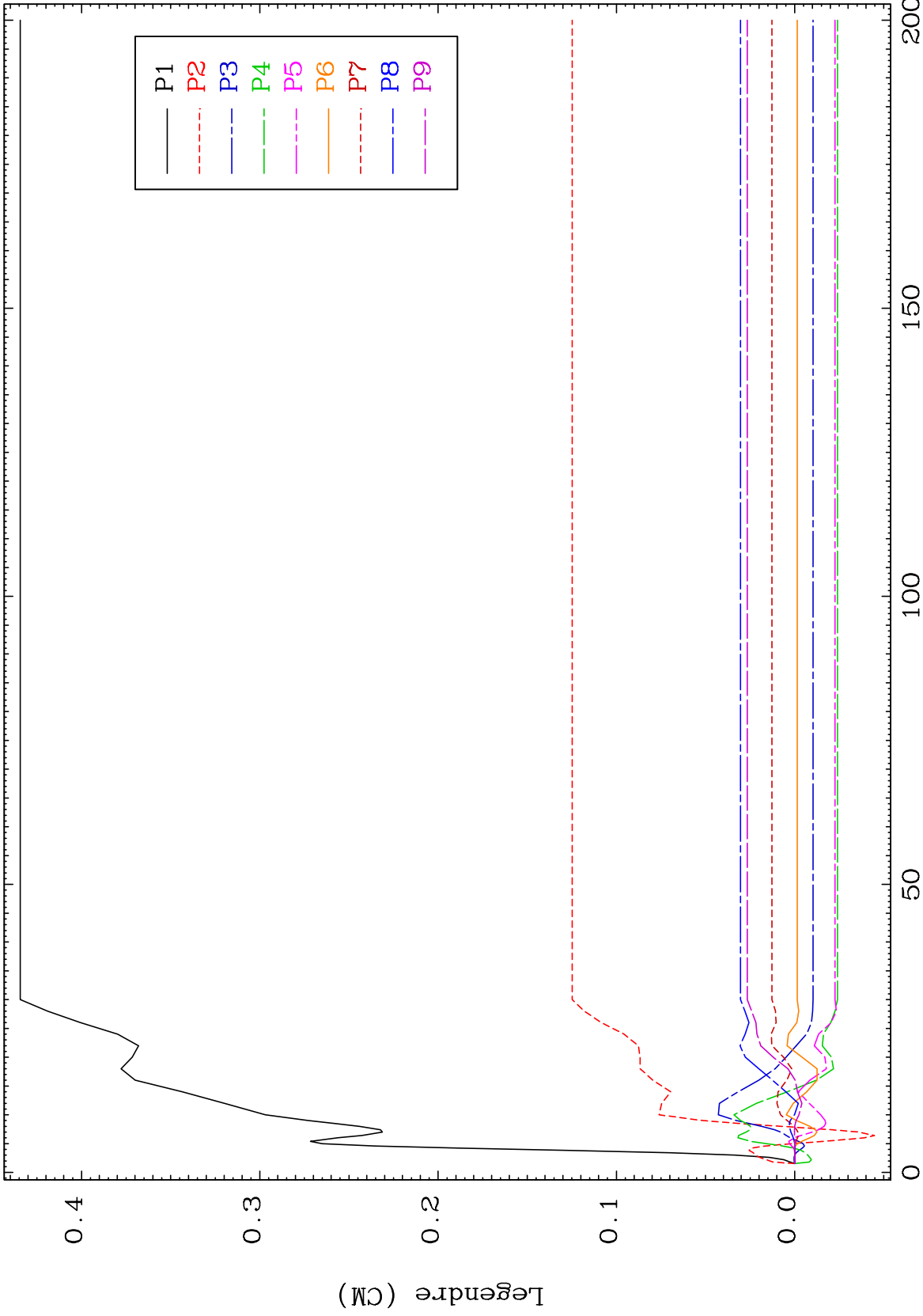


106 70-Yb-170

MAT 7031

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

70-Yb-170



107

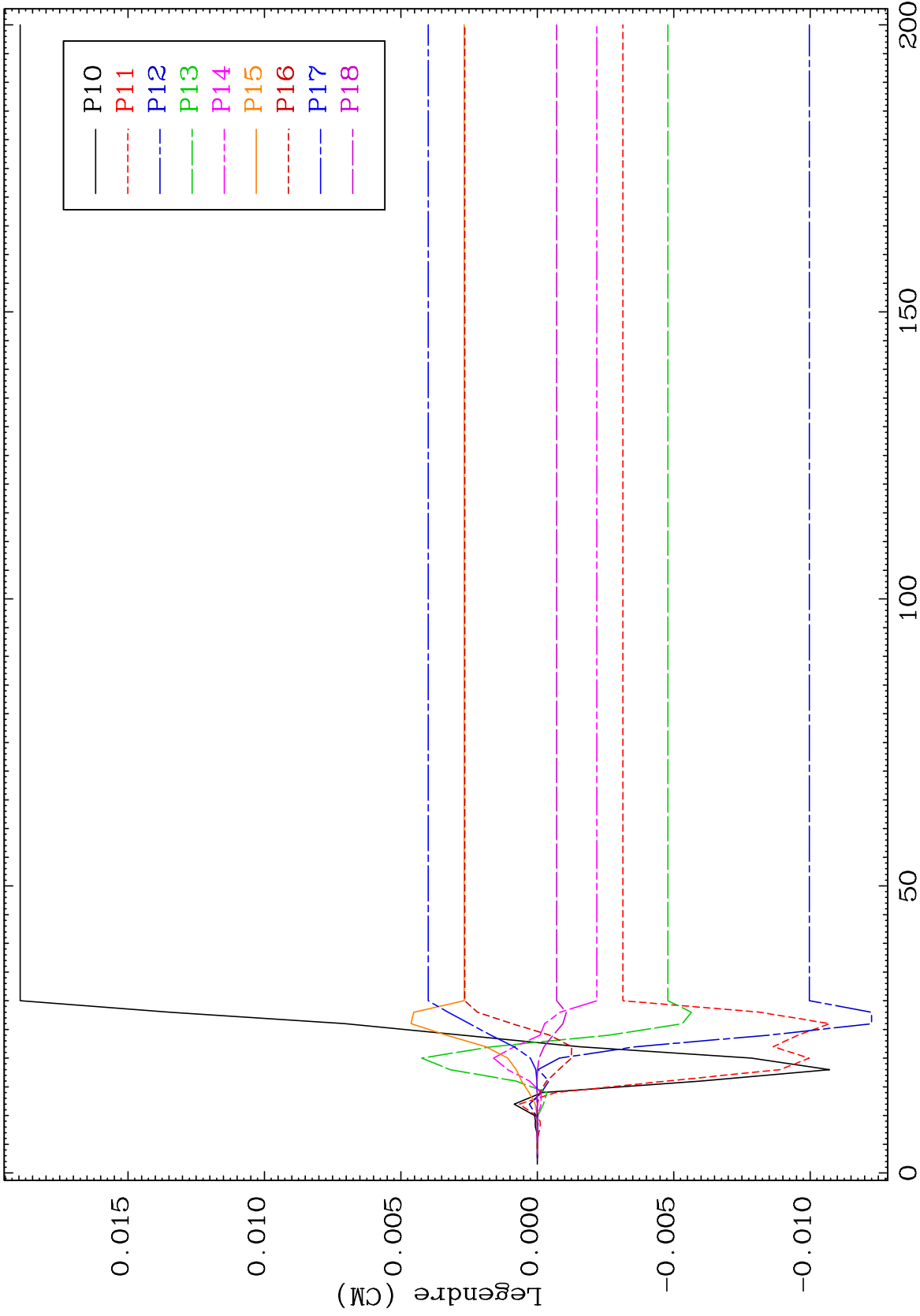
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170



108

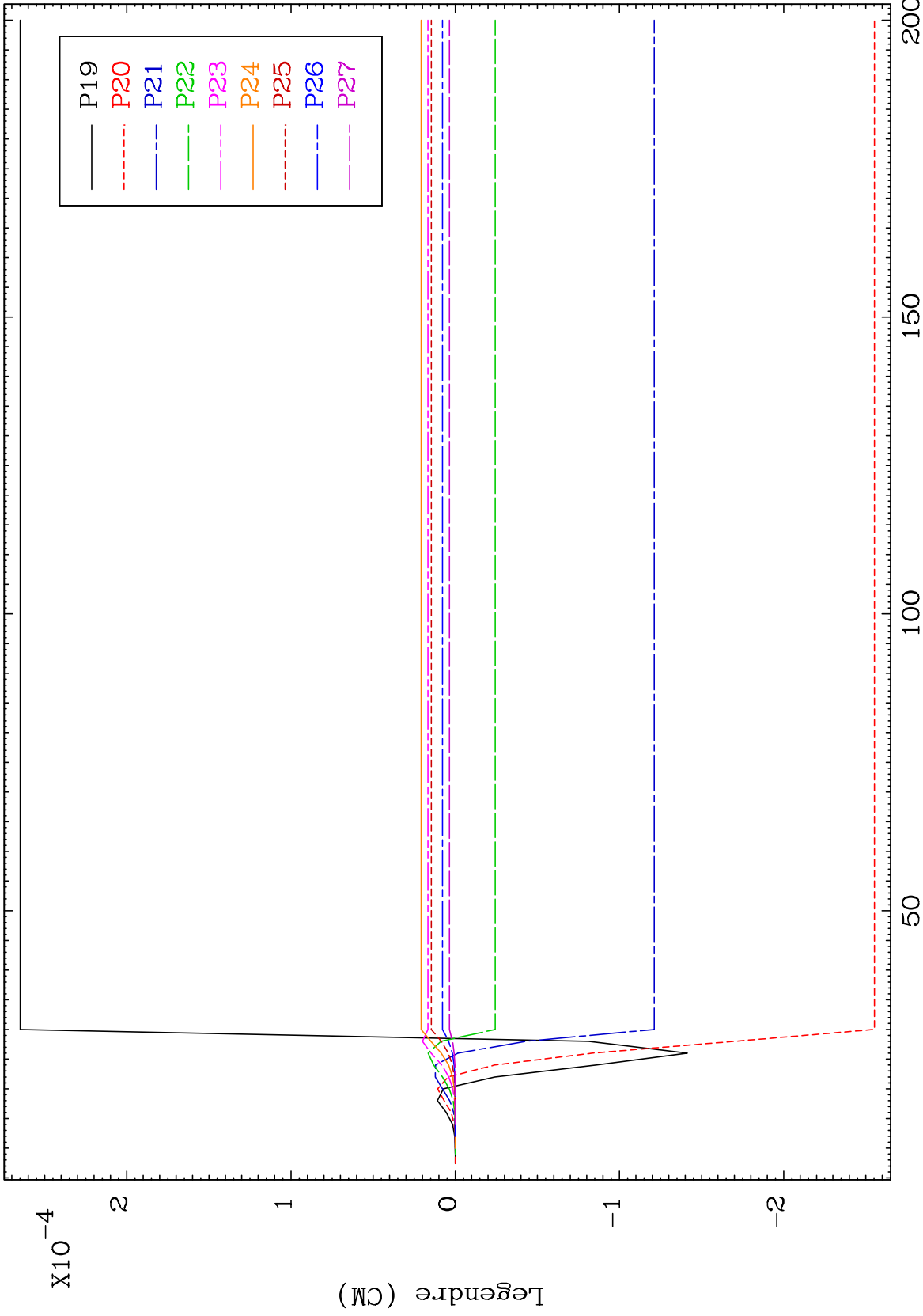
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

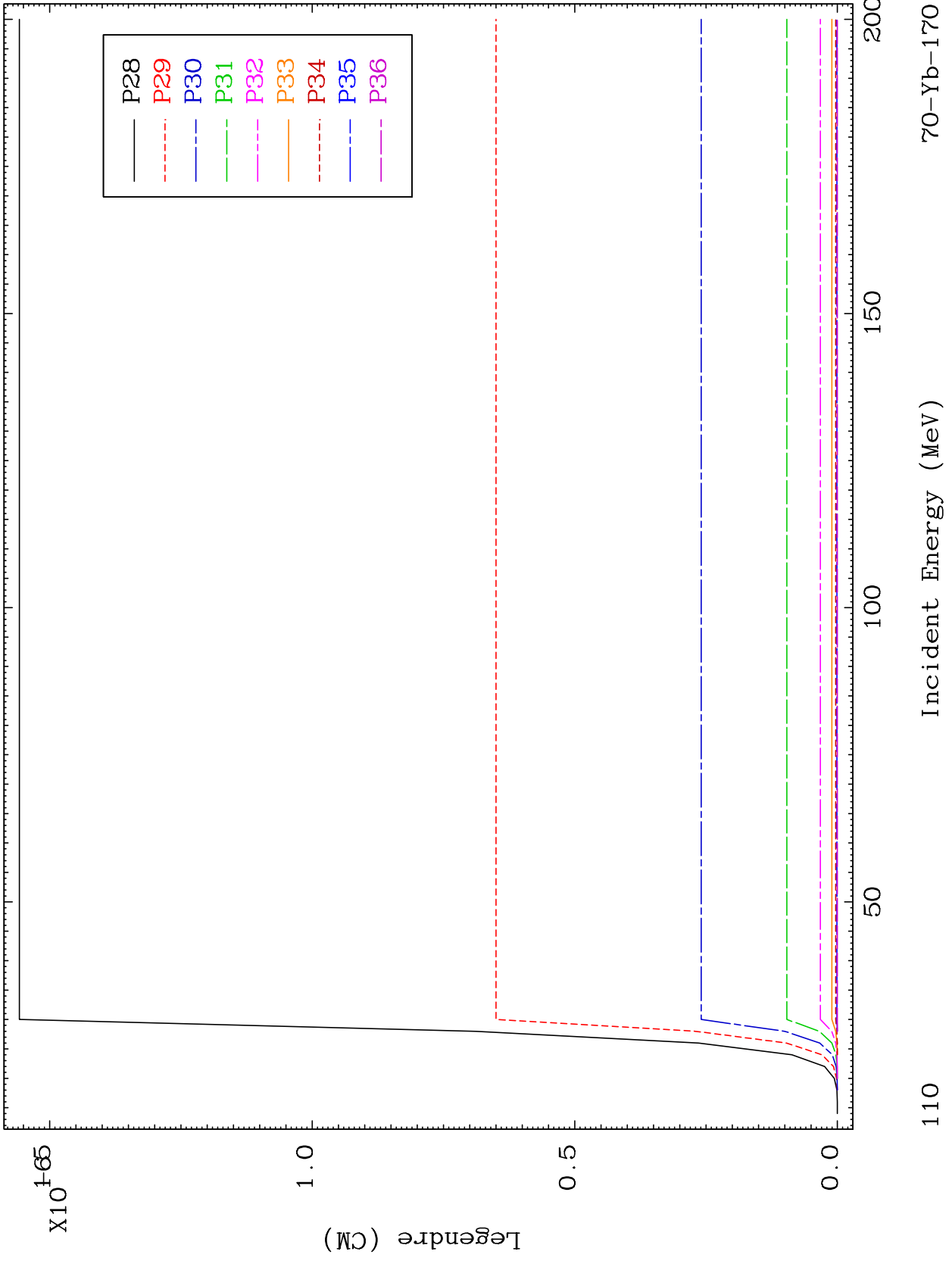
70-Yb-170



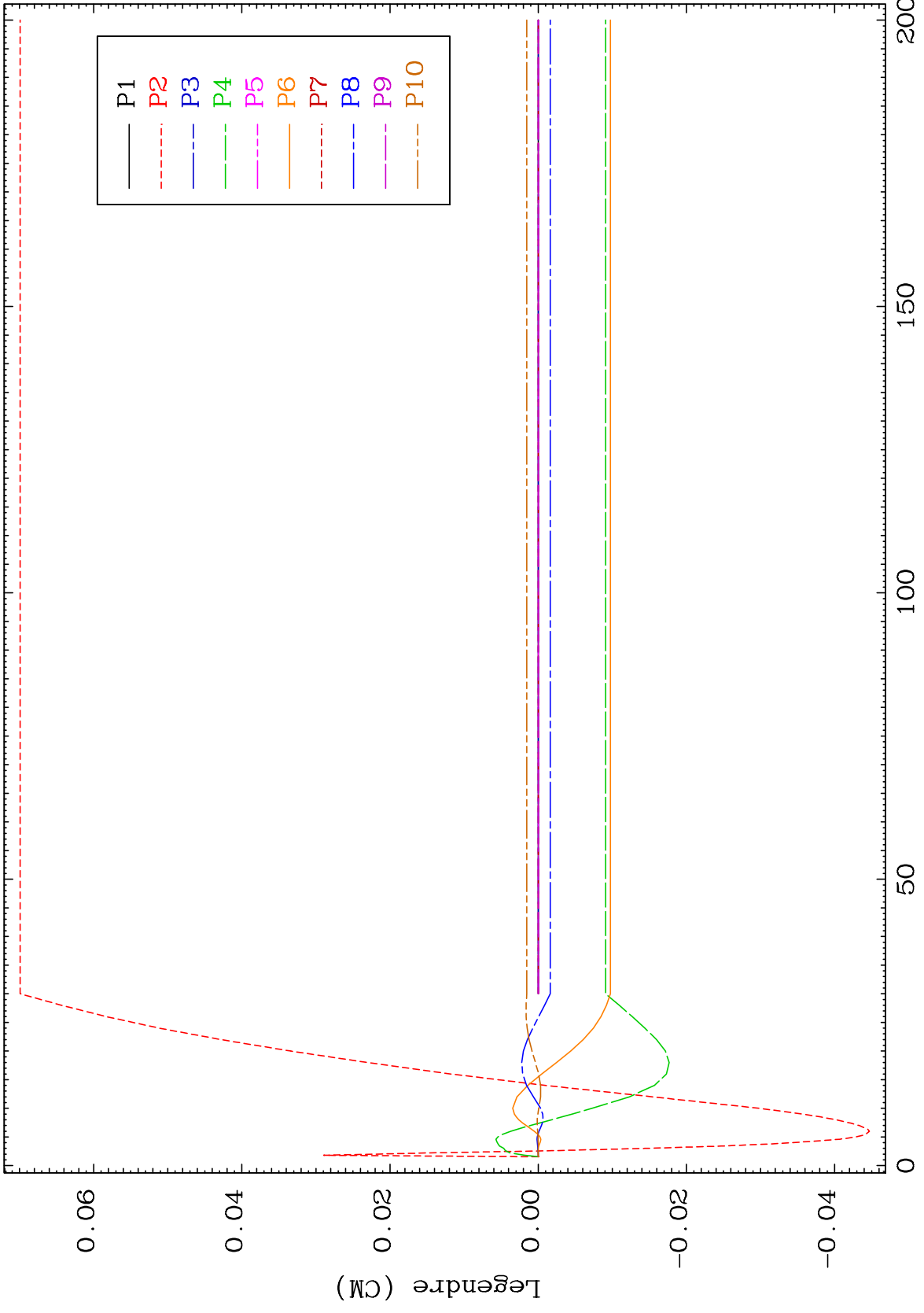
109

70-Yb-170

MAT 7031 MT= 75 (n,n') Level Legendre Coefficients 70-Yb-170

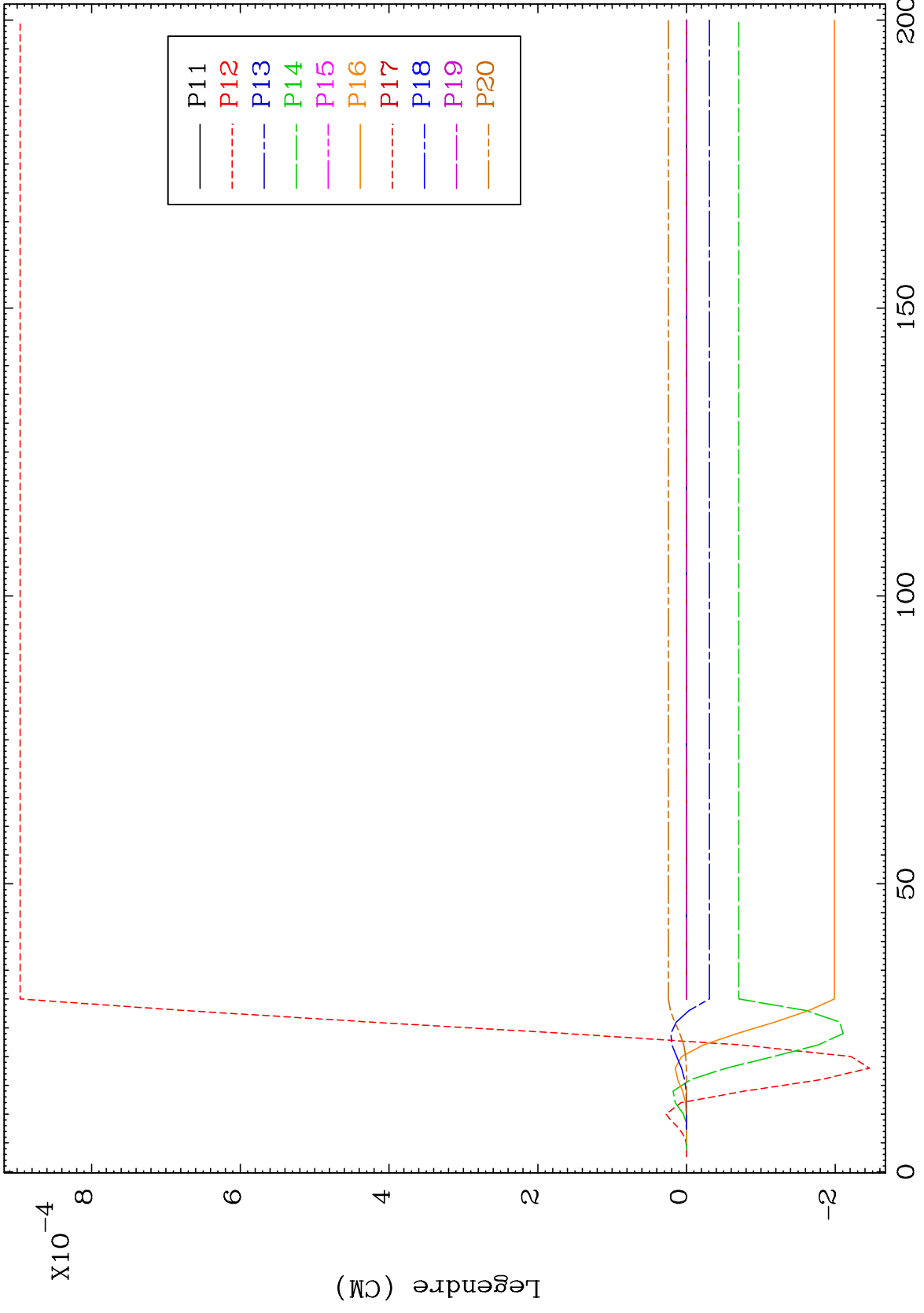


MAT 7031 MT= 76 (n,n') Level Legendre Coefficients 70-Yb-170



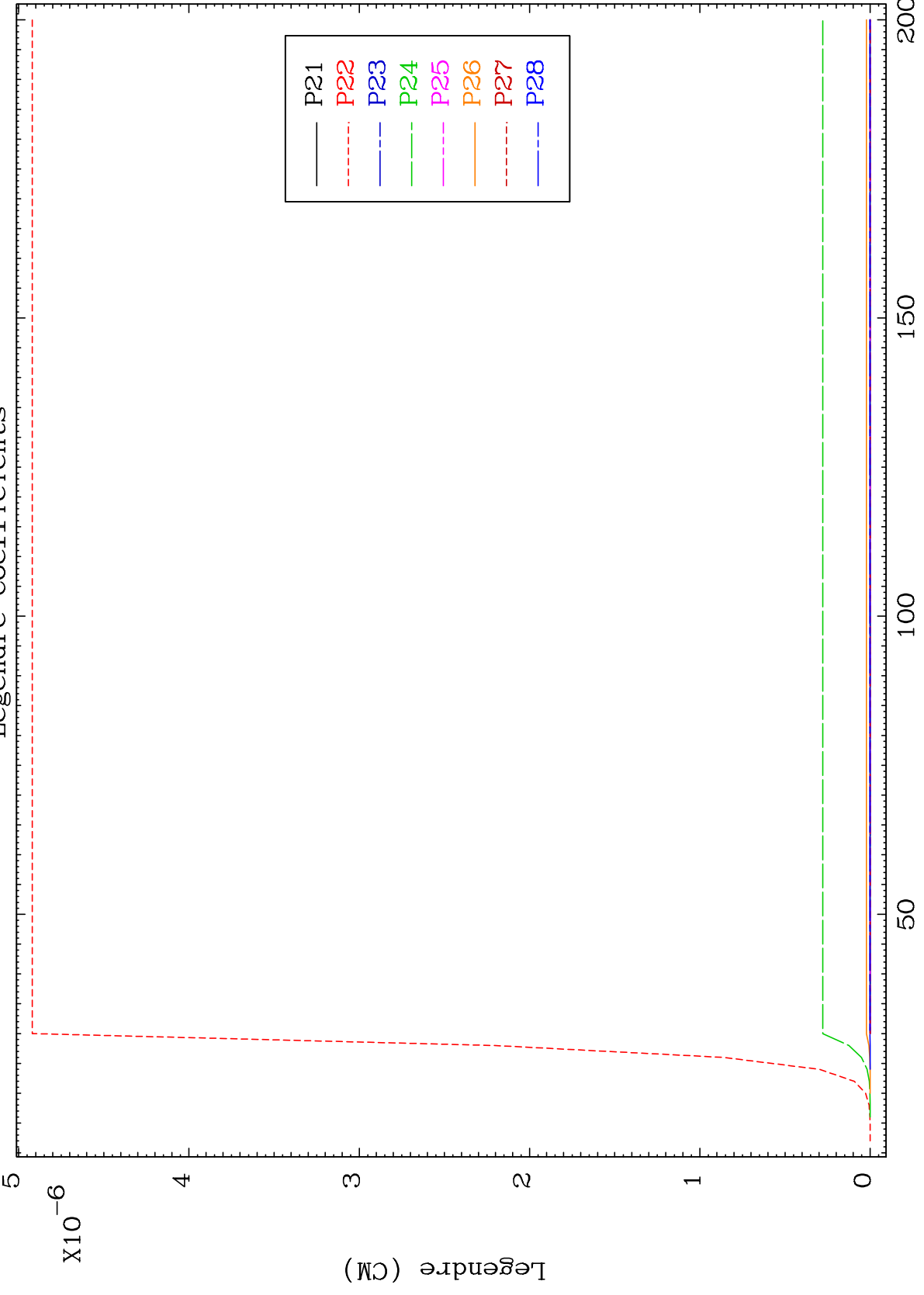
111 Incident Energy (MeV) 70-Yb-170

MAT 7031 MT= 76 (n,n') Level Legendre Coefficients 70-Yb-170



112 Incident Energy (MeV) 70-Yb-170

MAT 7031 MT= 76 (n,n') Level Legendre Coefficients 70-Yb-170

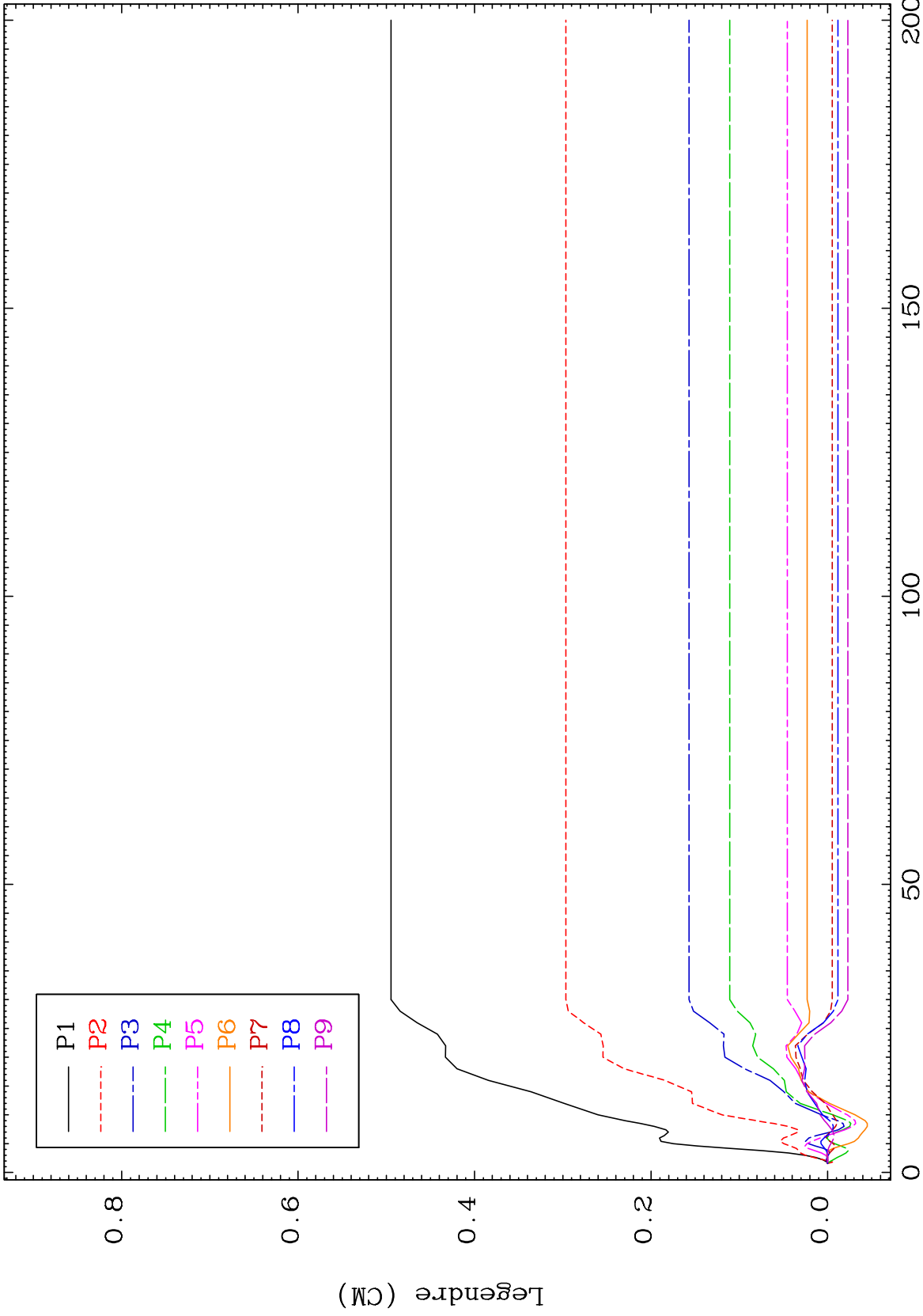


113 70-Yb-170

MAT 7031

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

70-Yb-170

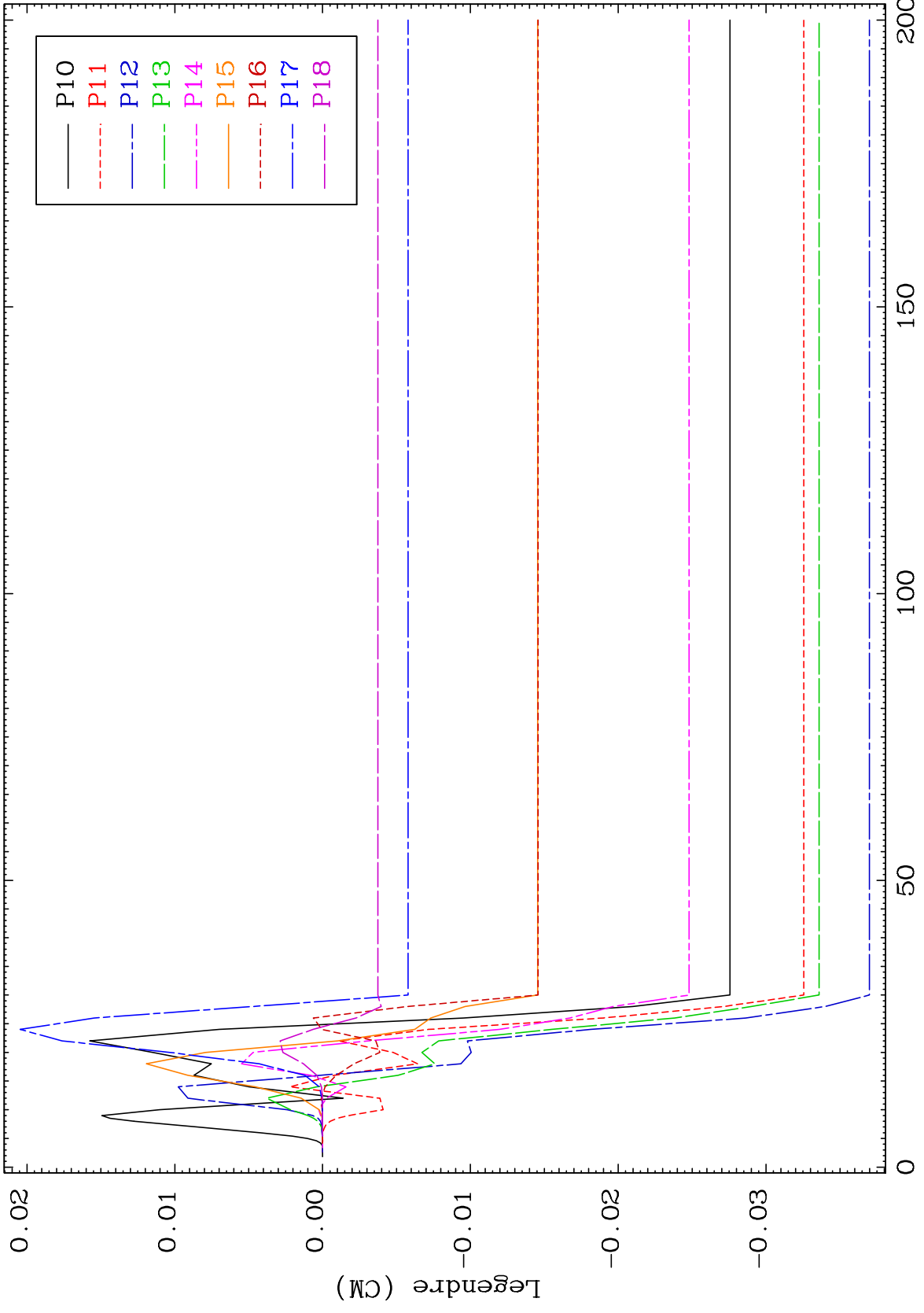


114

Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 77 (n,n') Level Legendre Coefficients 70-Yb-170



70-Yb-170

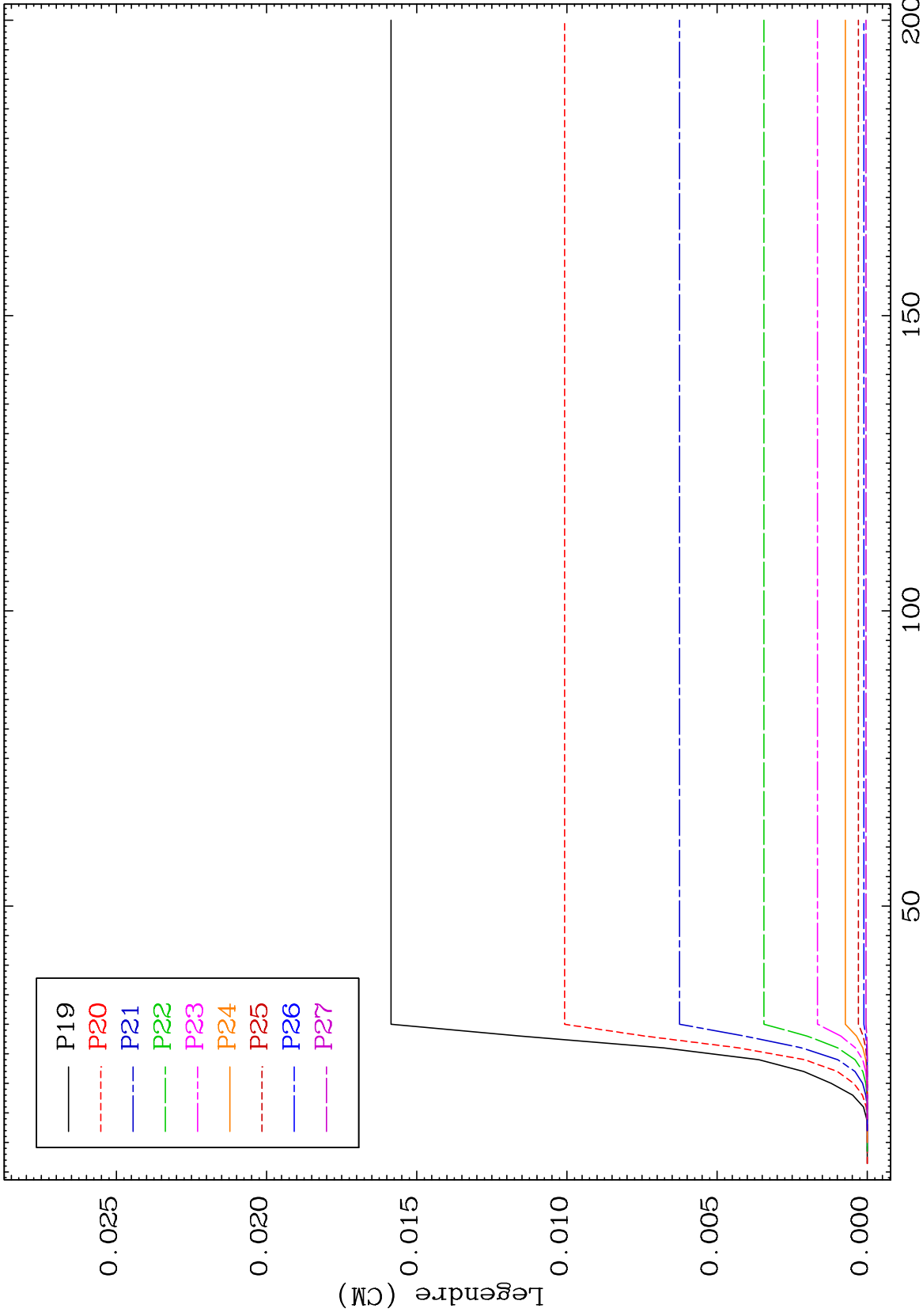
Incident Energy (MeV)

115

MAT 7031

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

70-Yb-170



116

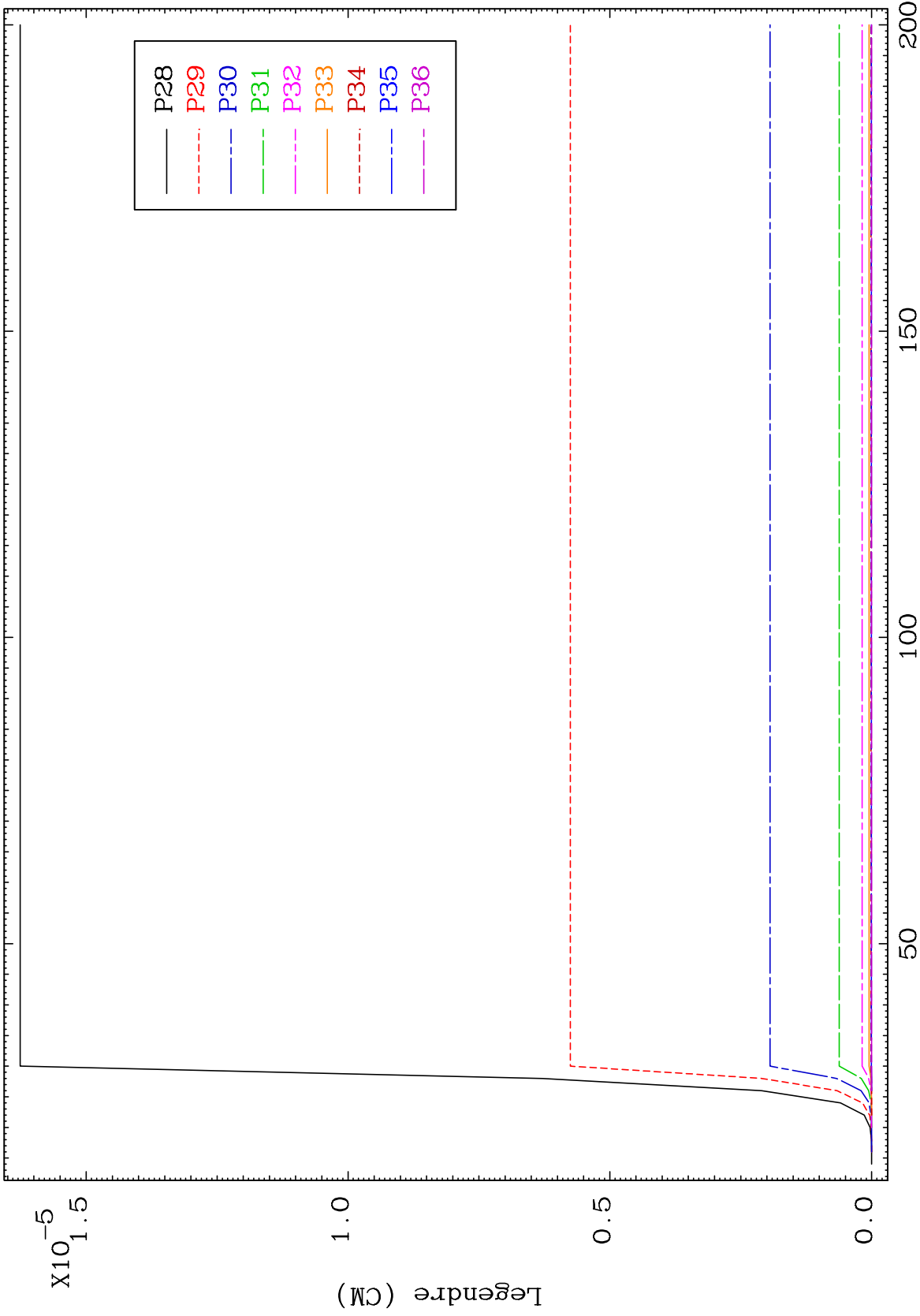
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170

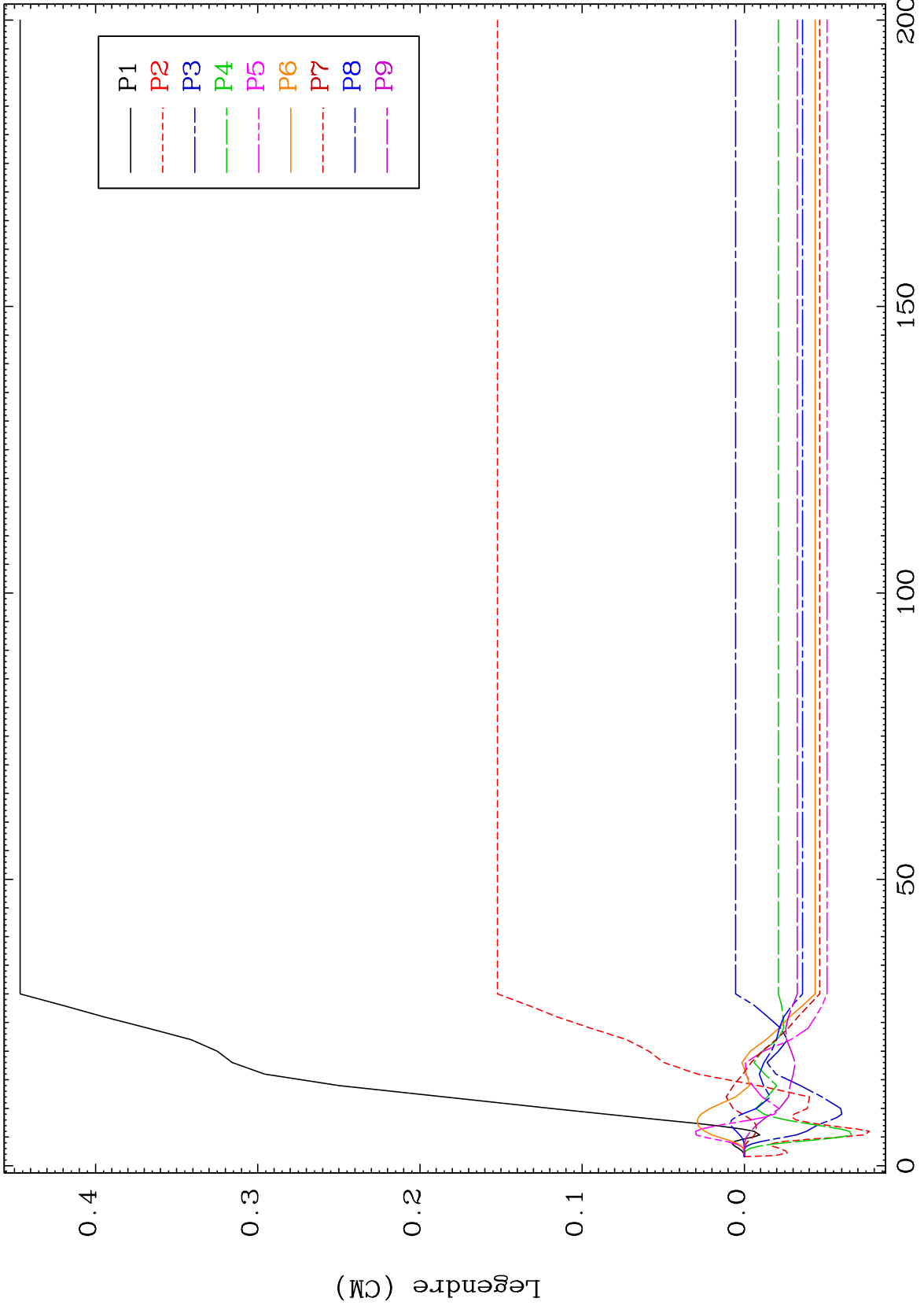


117

Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 78 (n,n') Level Legendre Coefficients 70-Yb-170

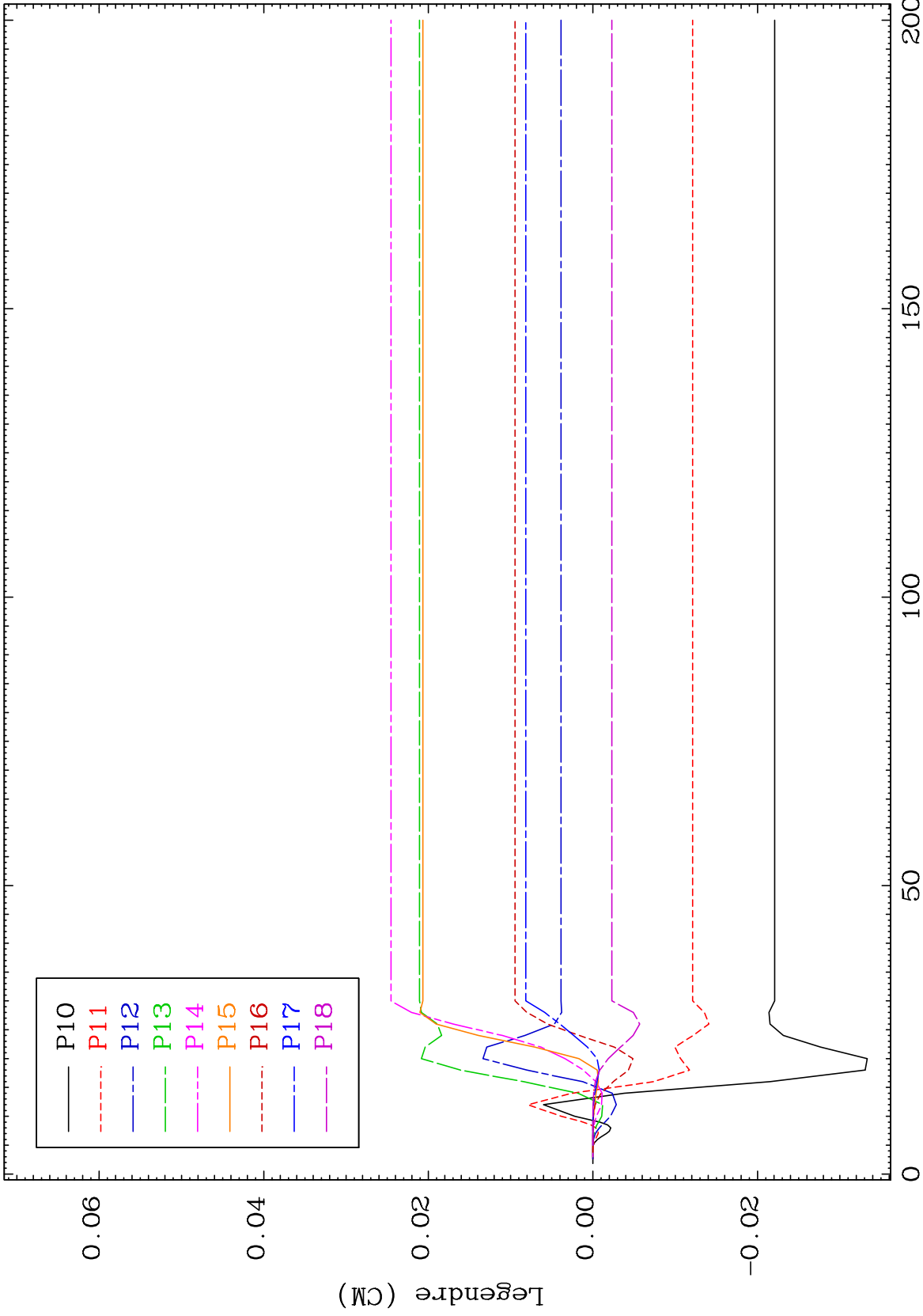


118 70-Yb-170

MAT 7031

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

70-Yb-170



119

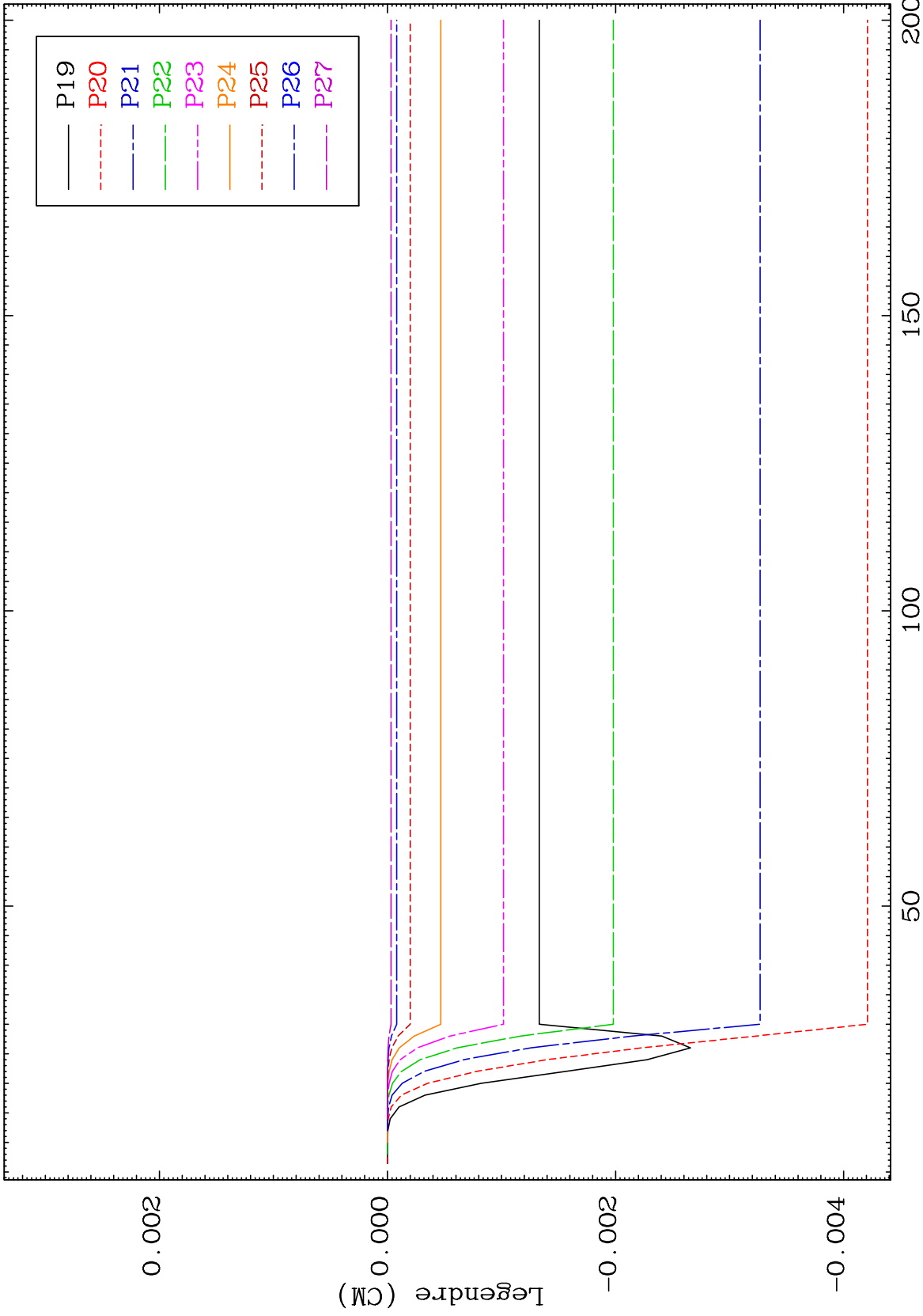
Incident Energy (MeV)

70-Yb-170

MAT 7031

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

70-Yb-170

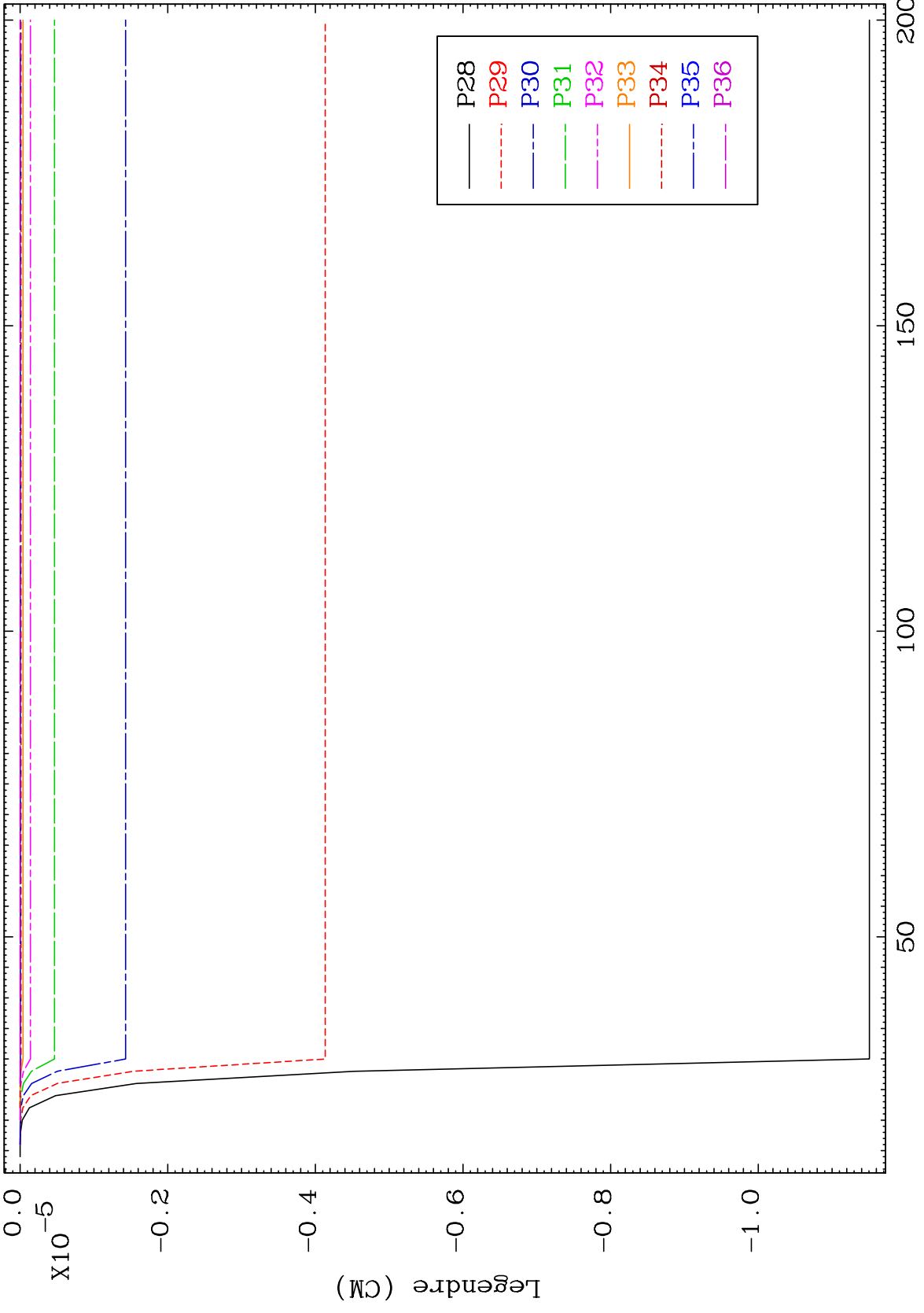


120

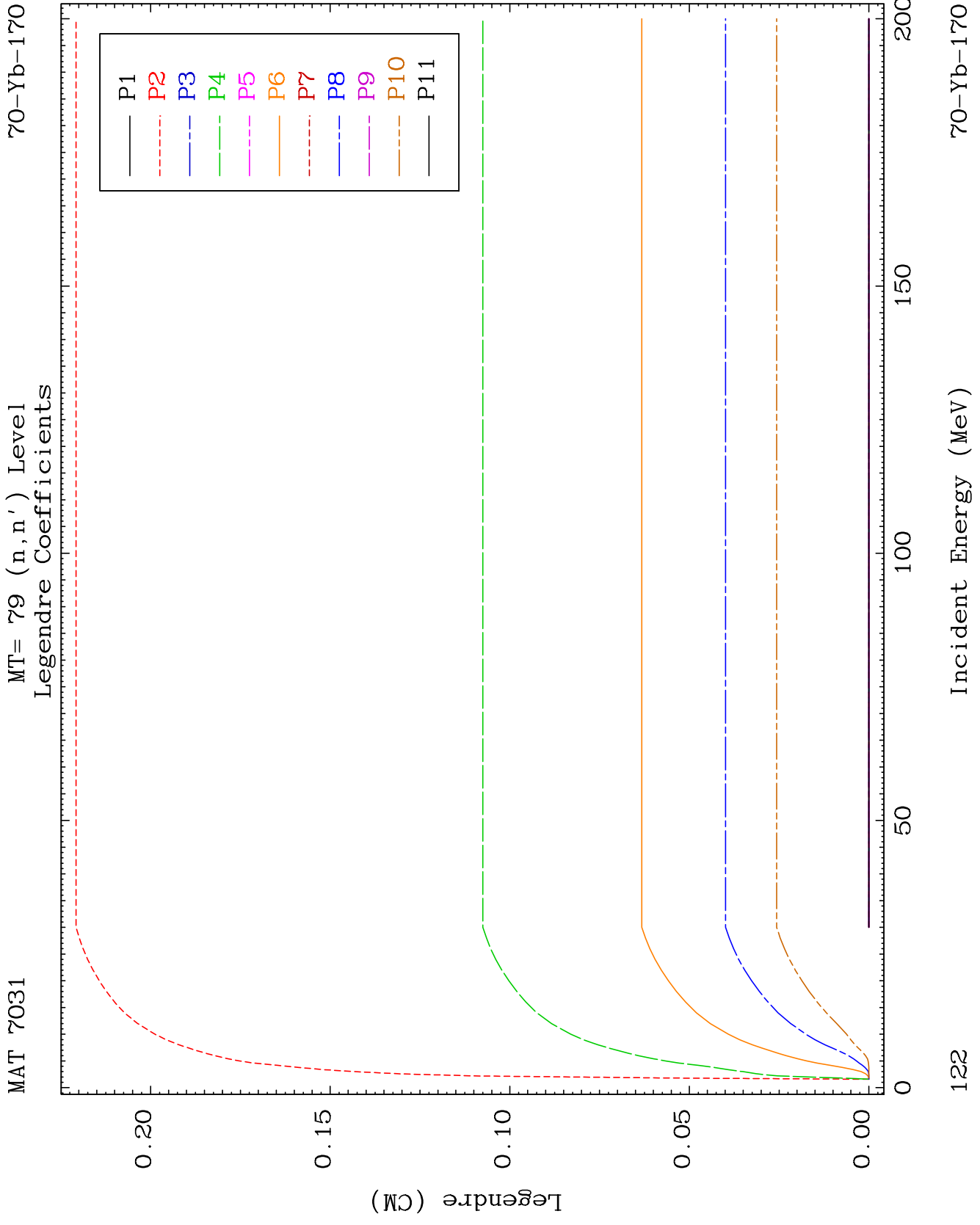
Incident Energy (MeV)

70-Yb-170

MAT 7031 MT= 78 (n, n') Level Legendre Coefficients 70-Yb-170



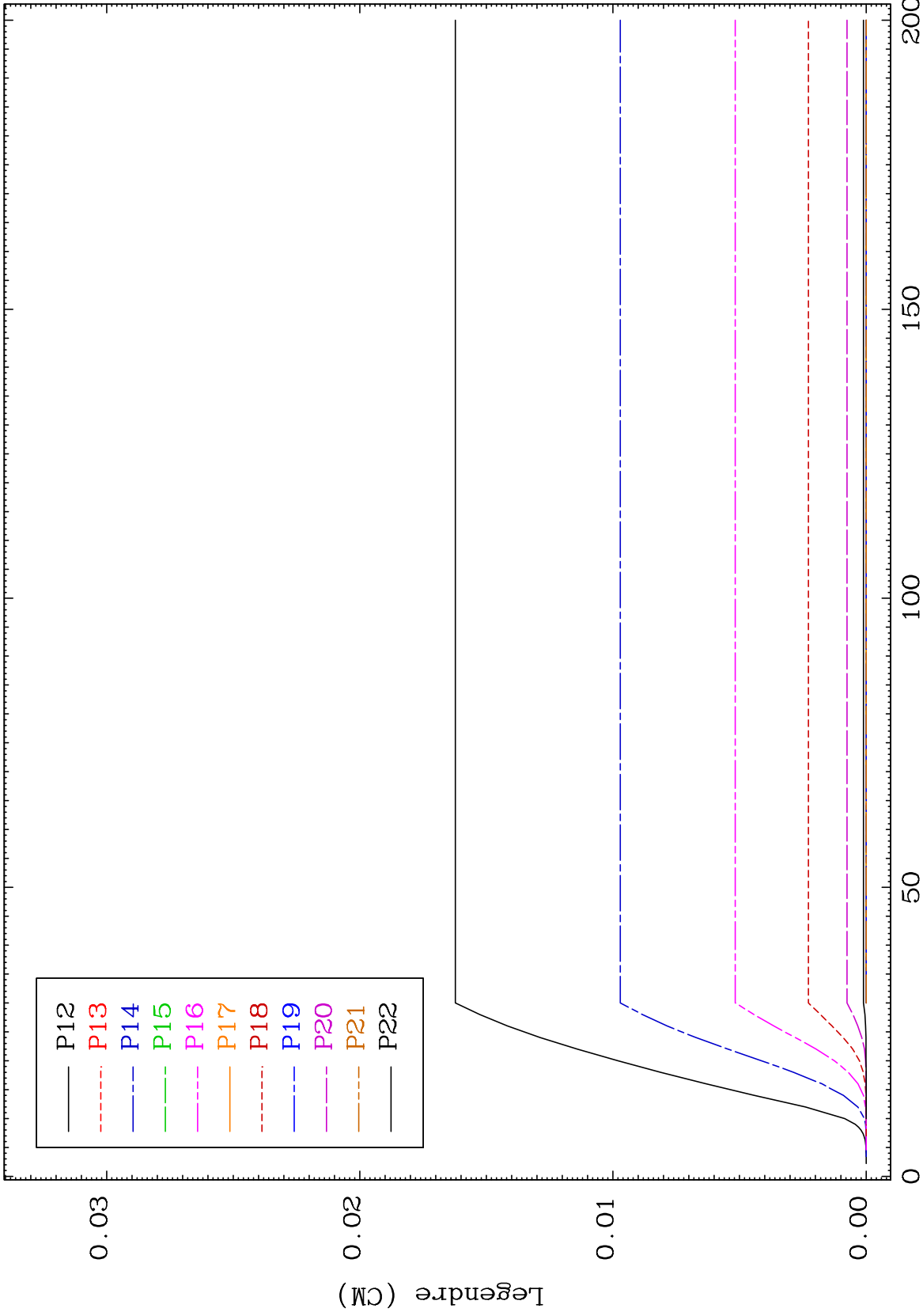
121 Incident Energy (MeV) 70-Yb-170



MAT 7031

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

70-Yb-170



123

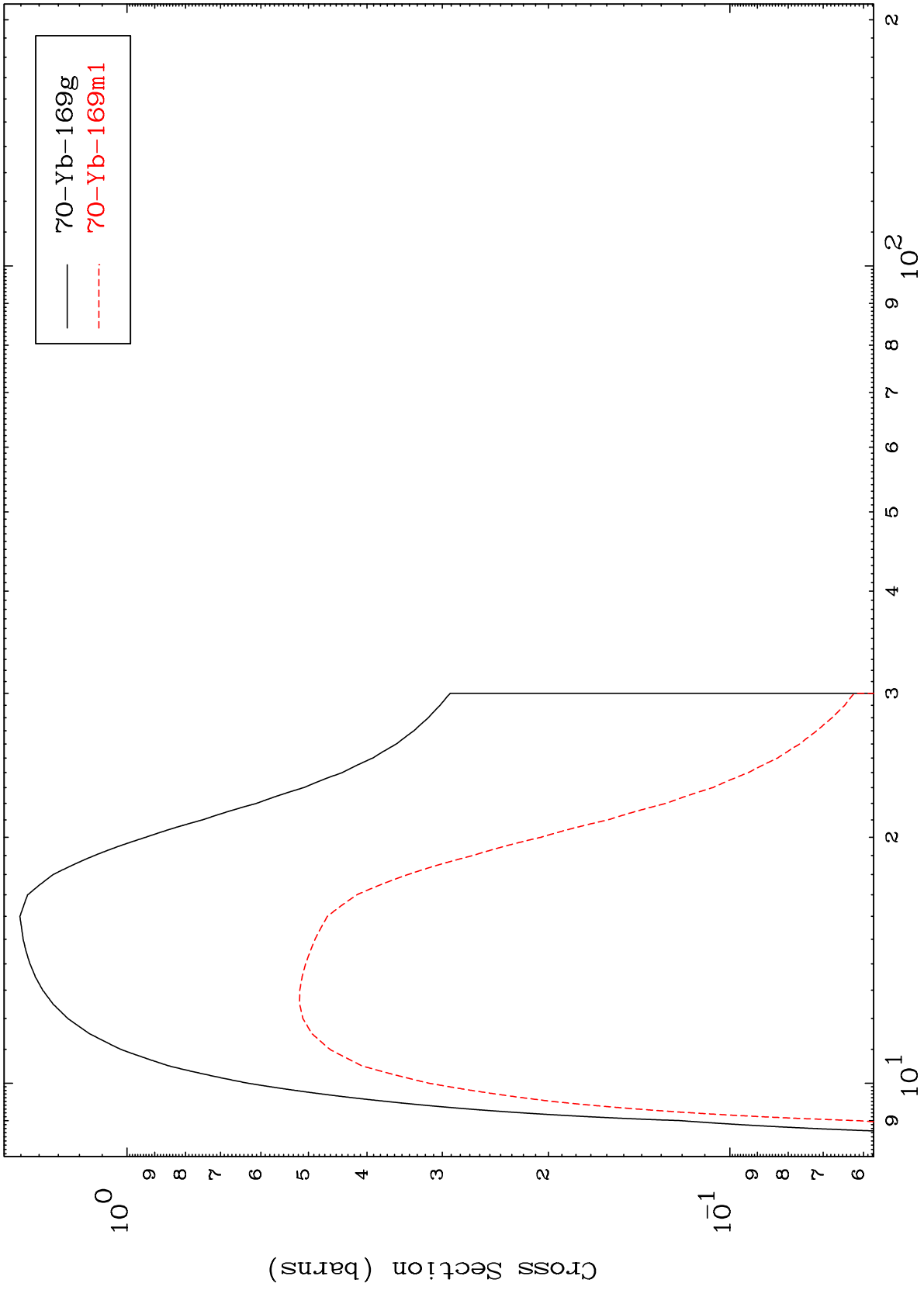
Incident Energy (MeV)

70-Yb-170

MAT 7031

70-Yb-170

(n,2n)
Radionuclide Production Cross Section



125

Incident Energy (MeV)

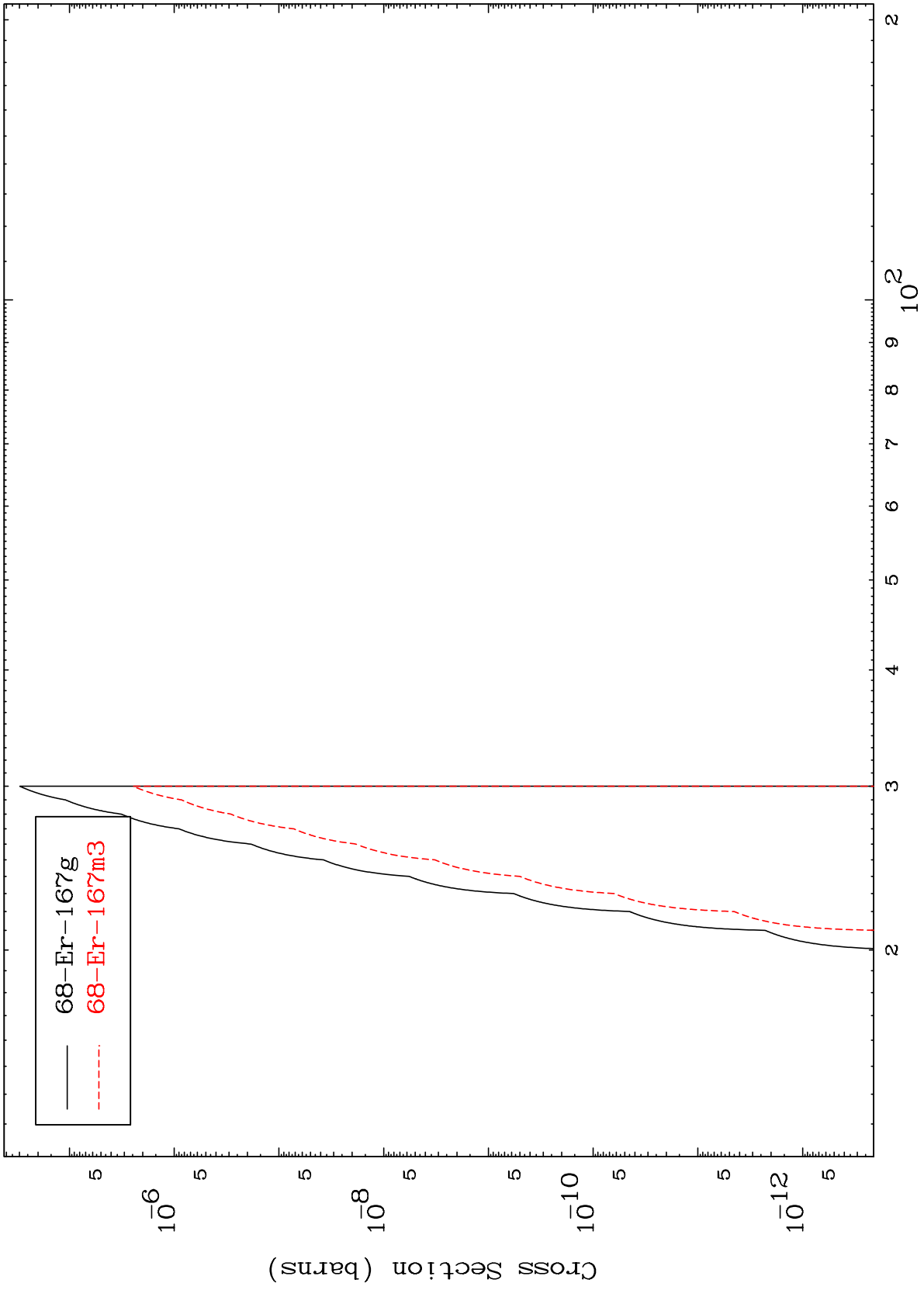
70-Yb-170

MAT 7031

(n, n') He-3

70-Yb-170

Radionuclide Production Cross Section



126

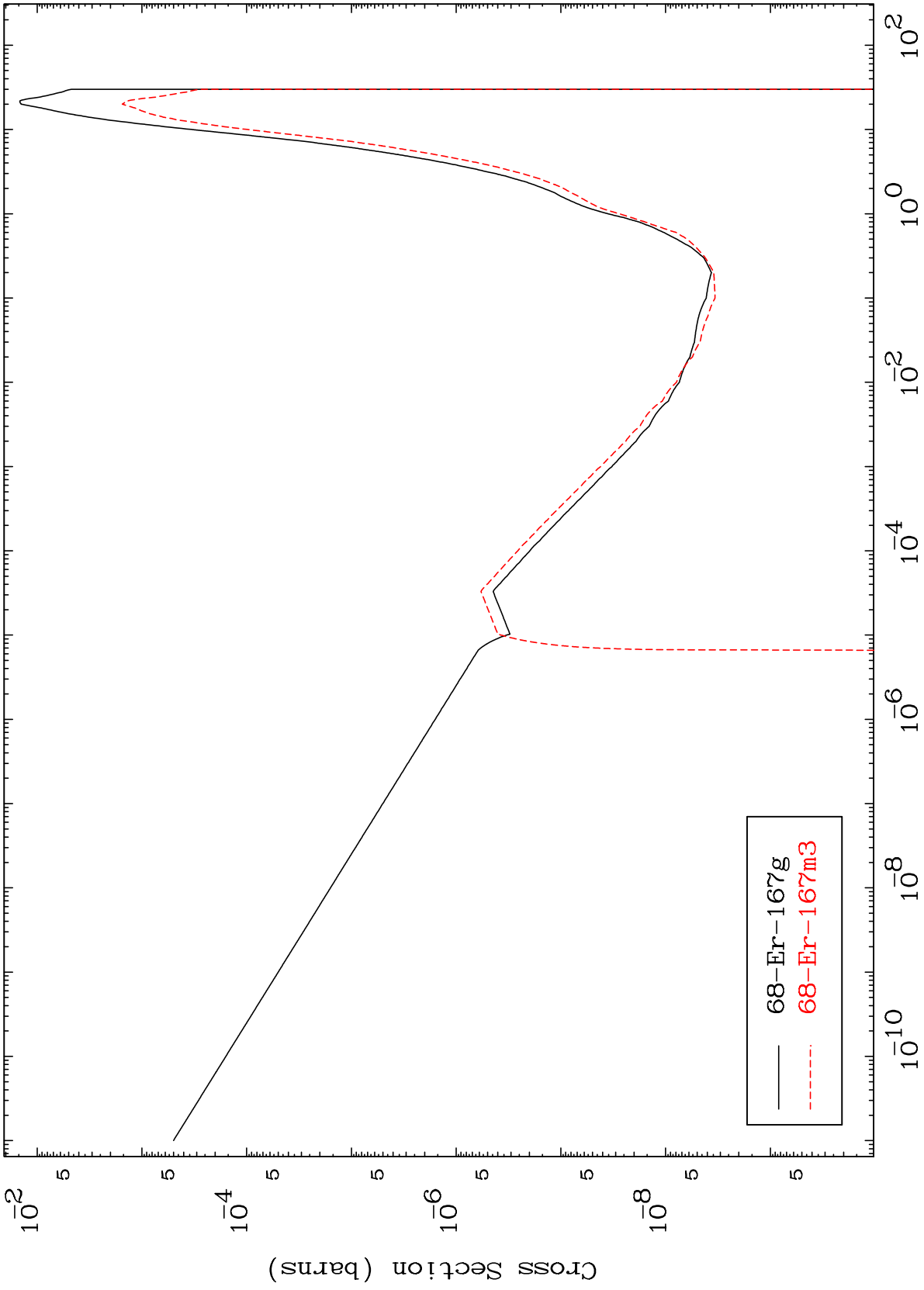
Incident Energy (MeV)

70-Yb-170

MAT 7031

Radionuclide Production Cross Section
(n, α)

70-Yb-170



127

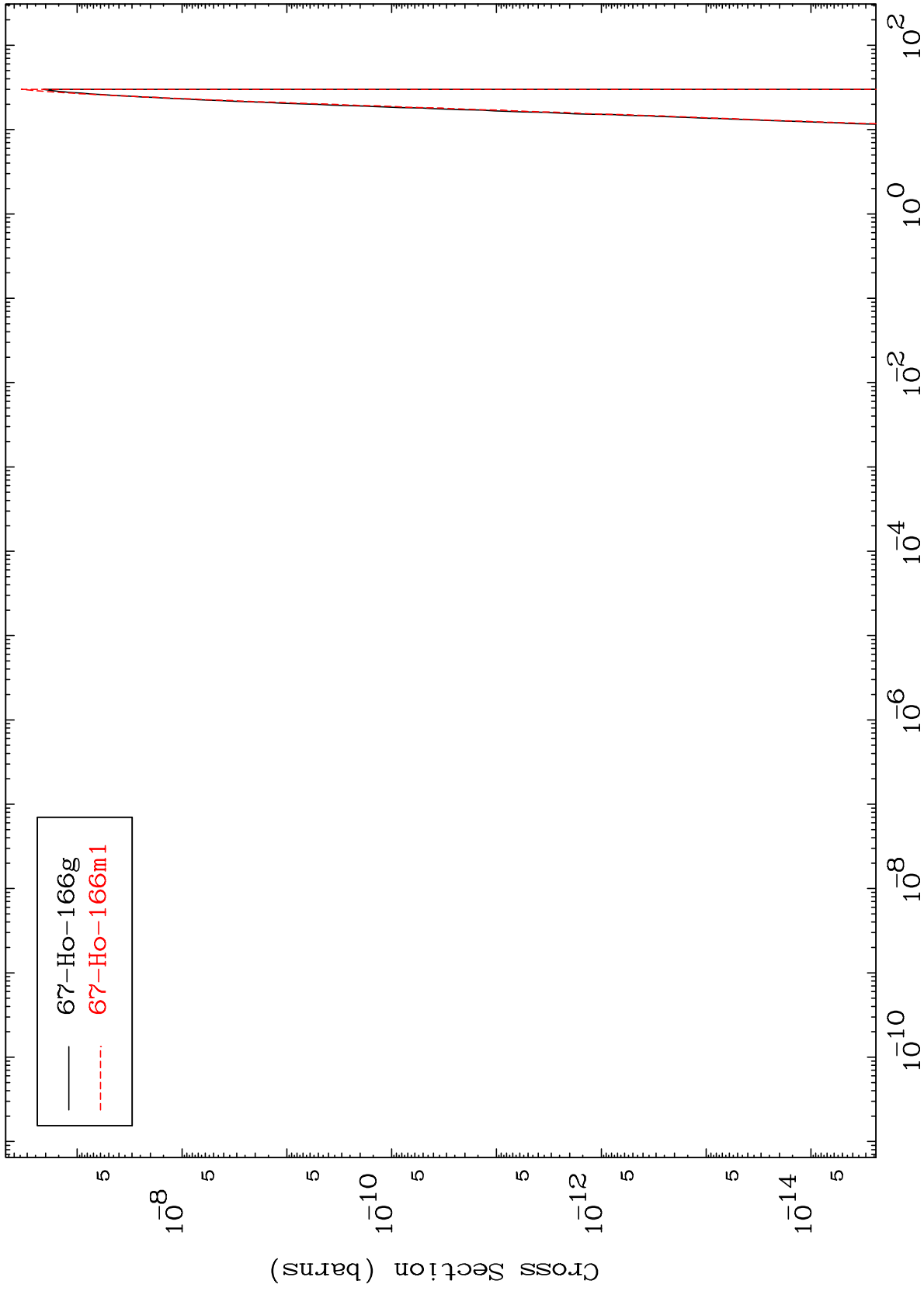
70-Yb-170

MAT 7031

(n,p) α

70-Yb-170

Radionuclide Production Cross Section

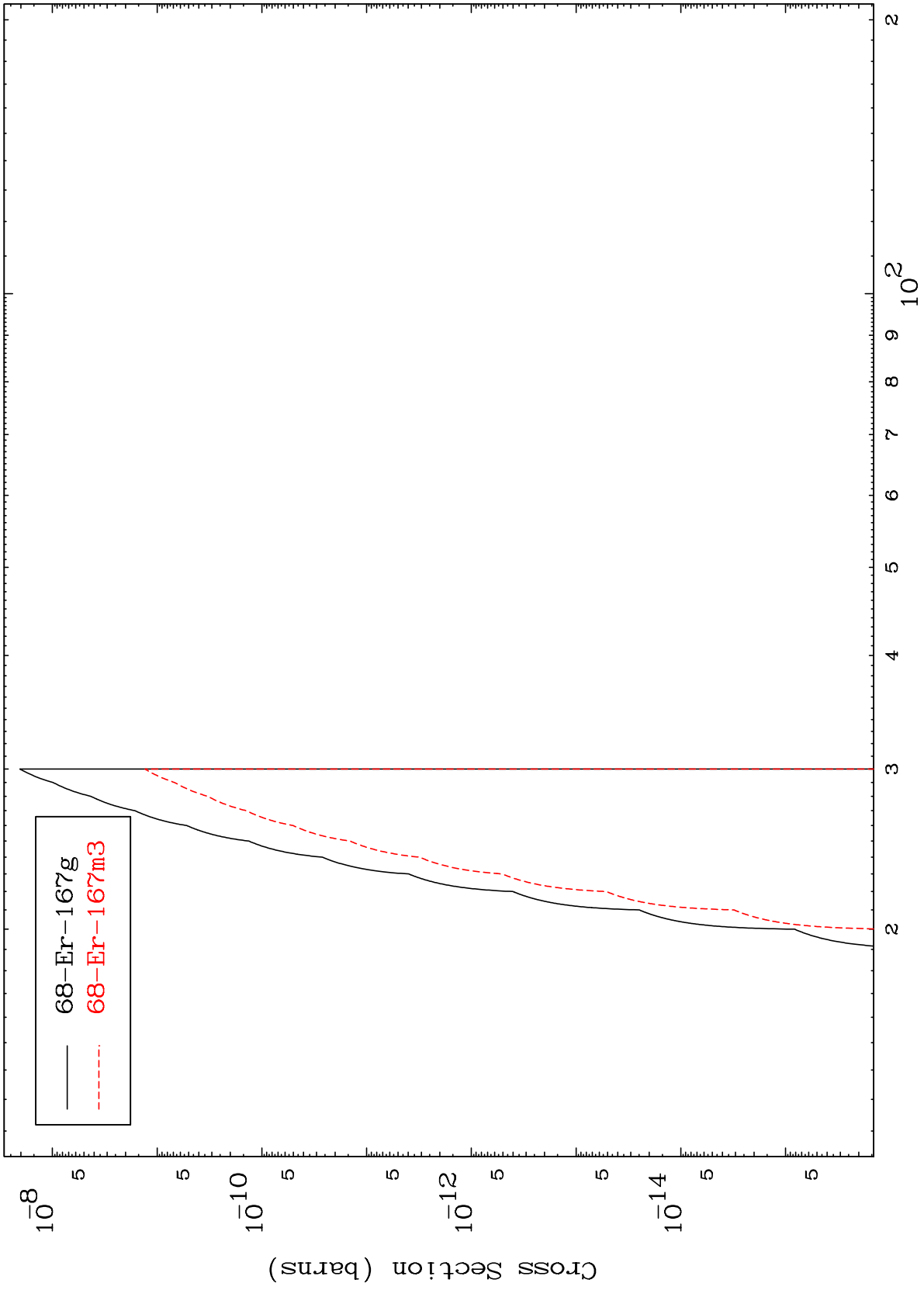


MAT 7031

(n,p) t

70-Yb-170

Radionuclide Production Cross Section



129

Incident Energy (MeV)

70-Yb-170