

Program EVALPLOT
(Version 2018-1)

by

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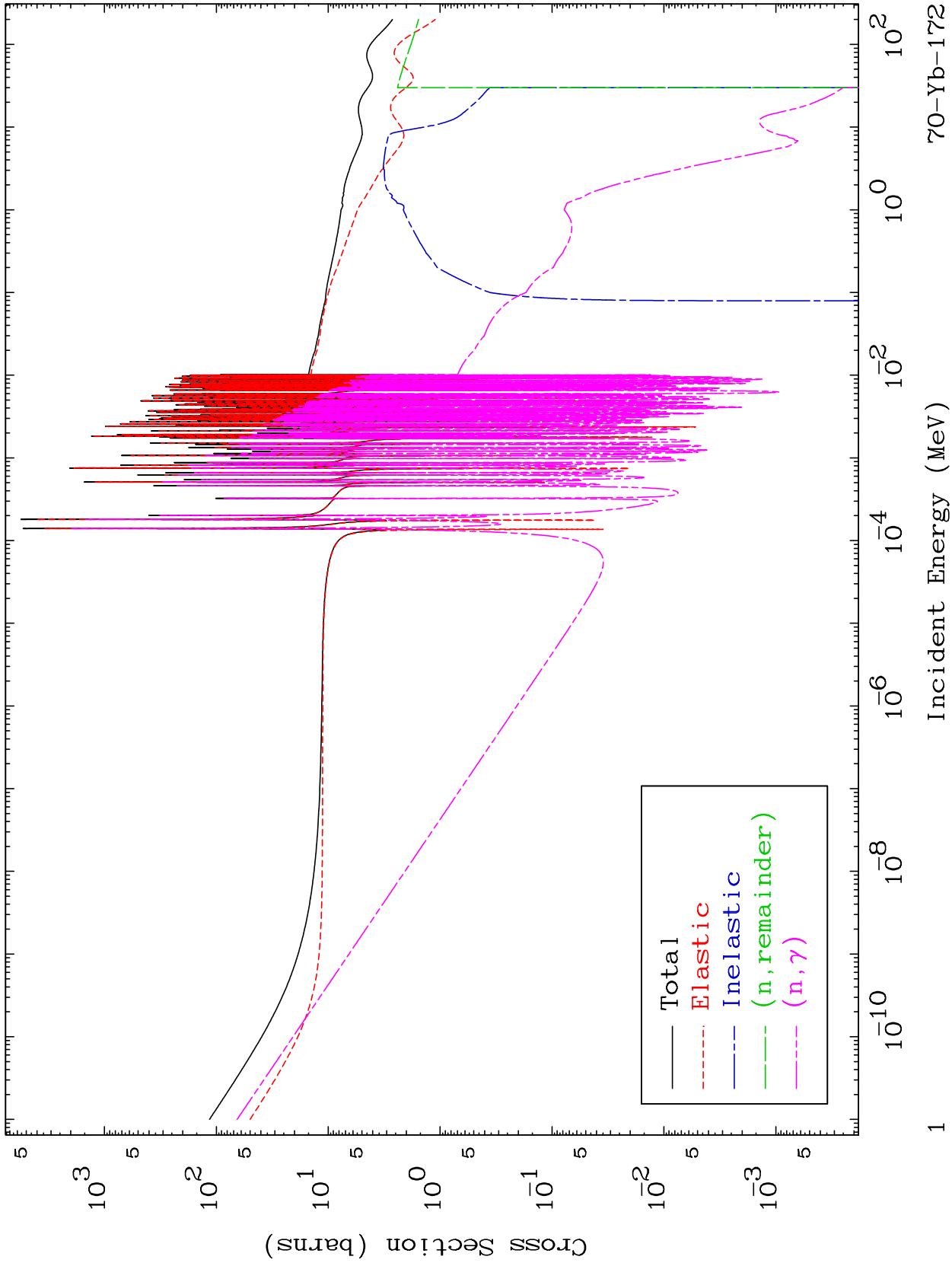
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7037

Major
293 Kelvin Cross Sections

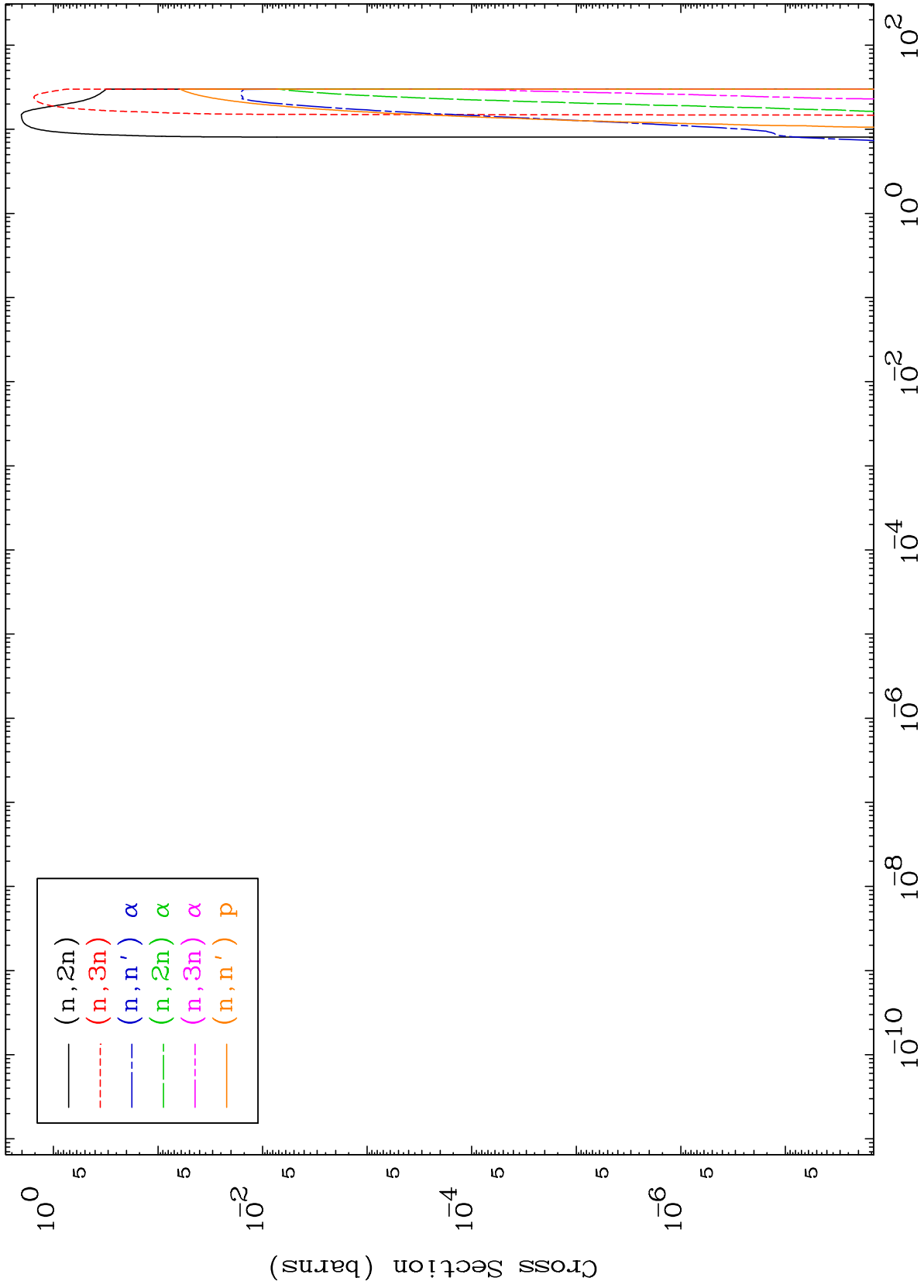
70-Yb-172



MAT 7037

Neutron Production
293 Kelvin Cross Sections

70-Yb-172



2

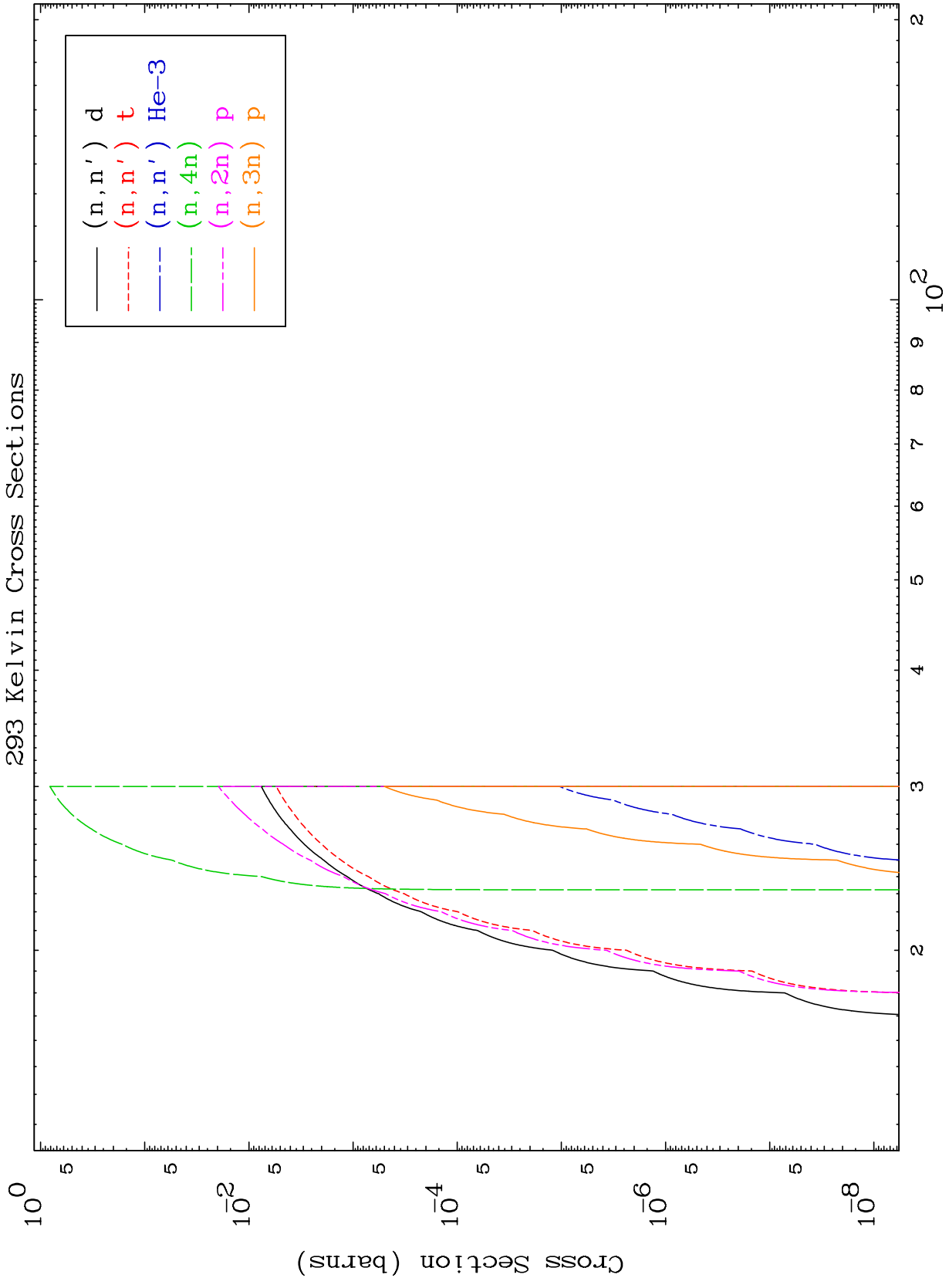
Incident Energy (MeV)

70-Yb-172

MAT 7037

Neutron Production
293 Kelvin Cross Sections

70-Yb-172



3

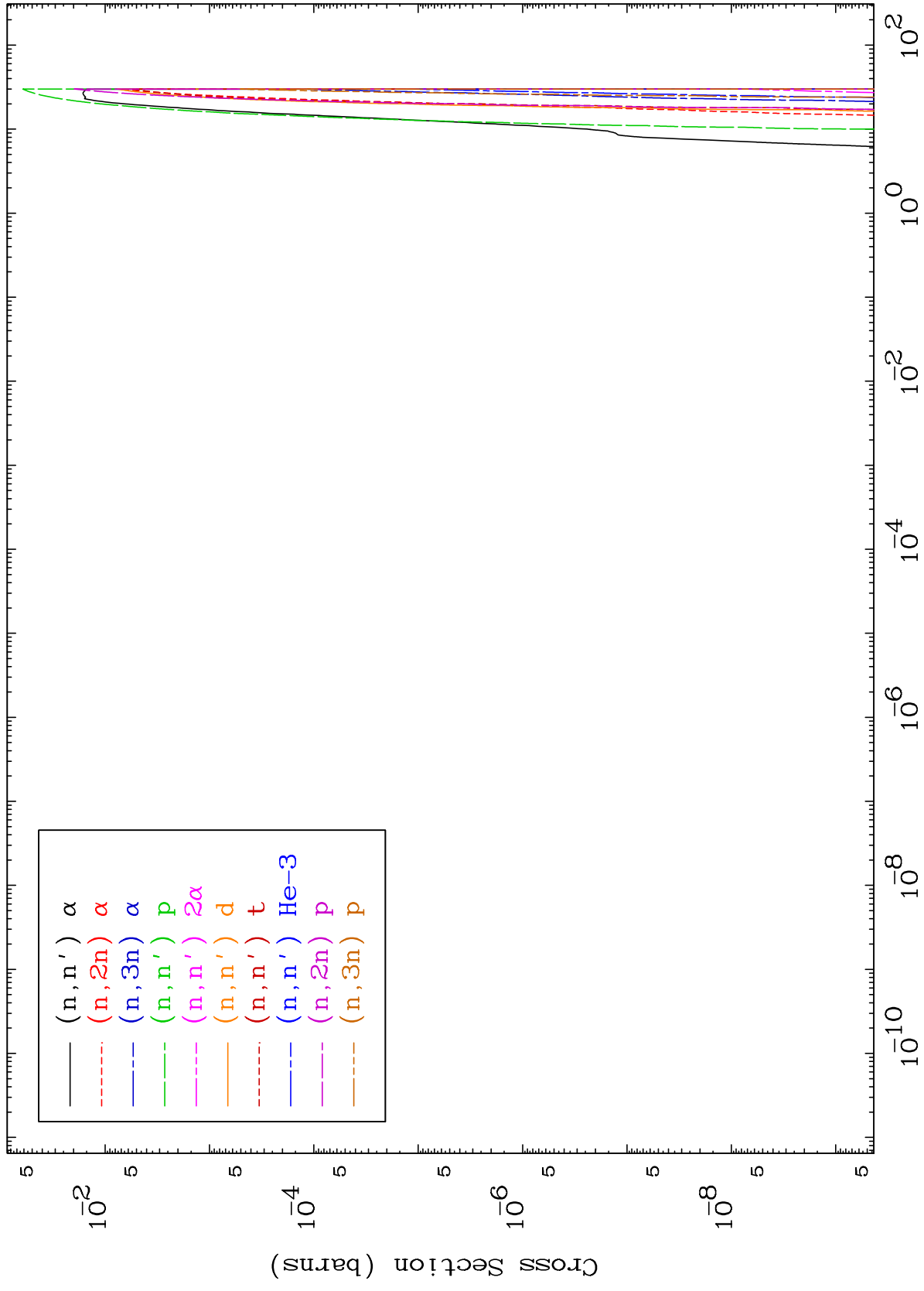
Incident Energy (MeV)

70-Yb-172

MAT 7037

293 Charged Particle
Kelvin Cross Sections

70-Yb-172



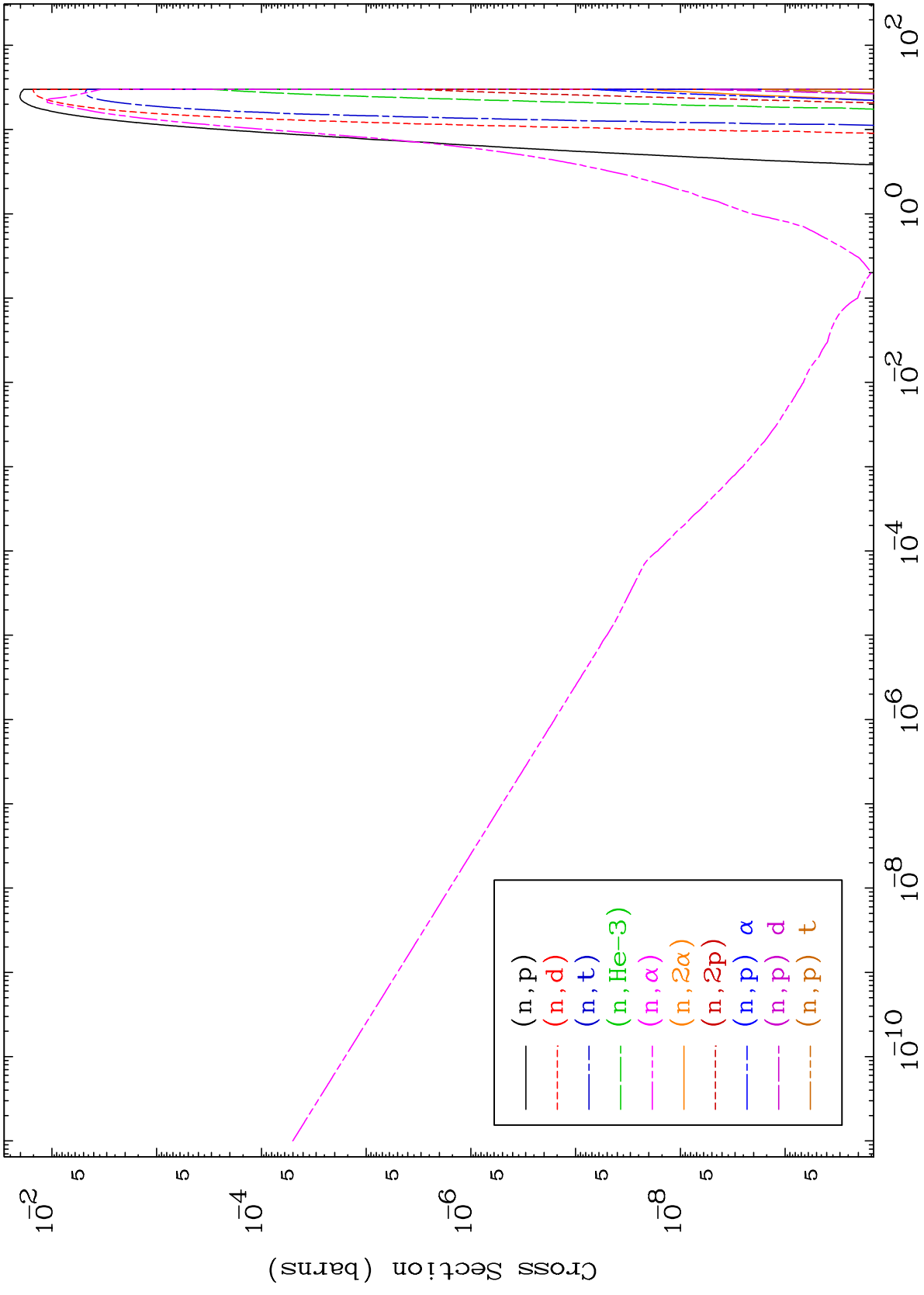
70-Yb-172

Incident Energy (MeV)

MAT 7037

Charged Particle
293 Kelvin Cross Sections

70-Yb-172

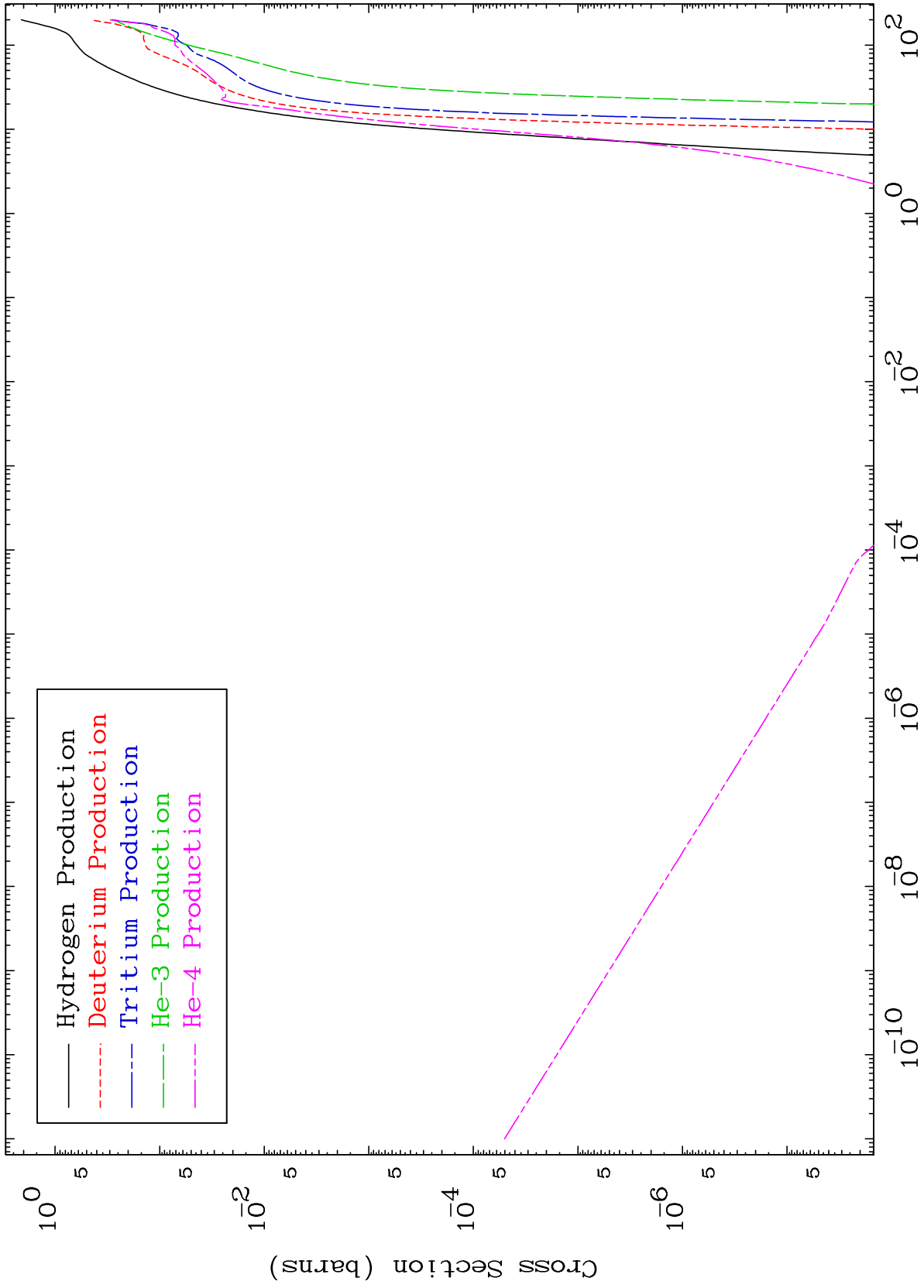


70-Yb-172

MAT 7037

Particle Production
293 Kelvin Cross Sections

70-Yb-172



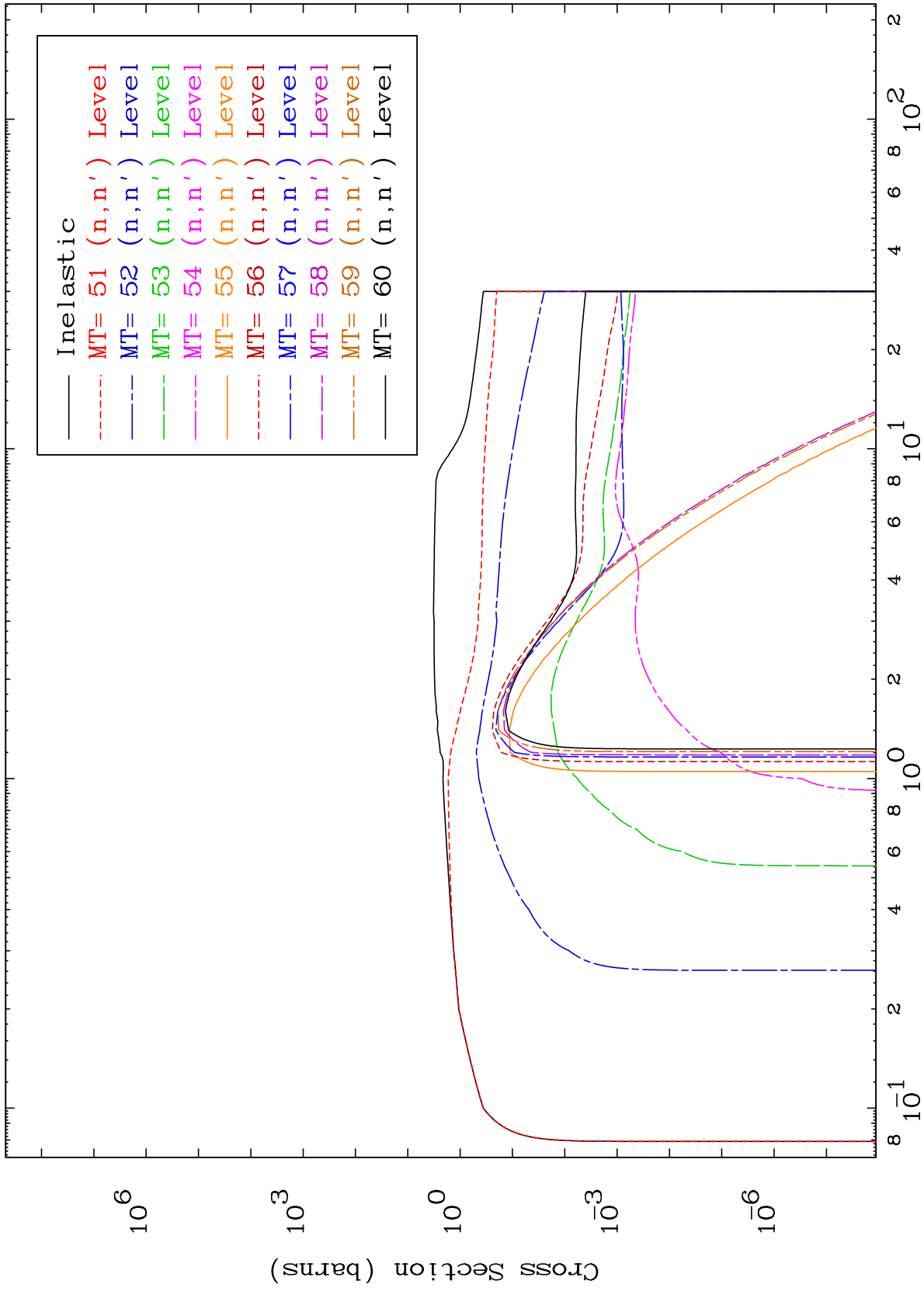
6

MAT 7037

(n,n') Level

293 Kelvin Cross Sections

70-Yb-172



7

Incident Energy (MeV)

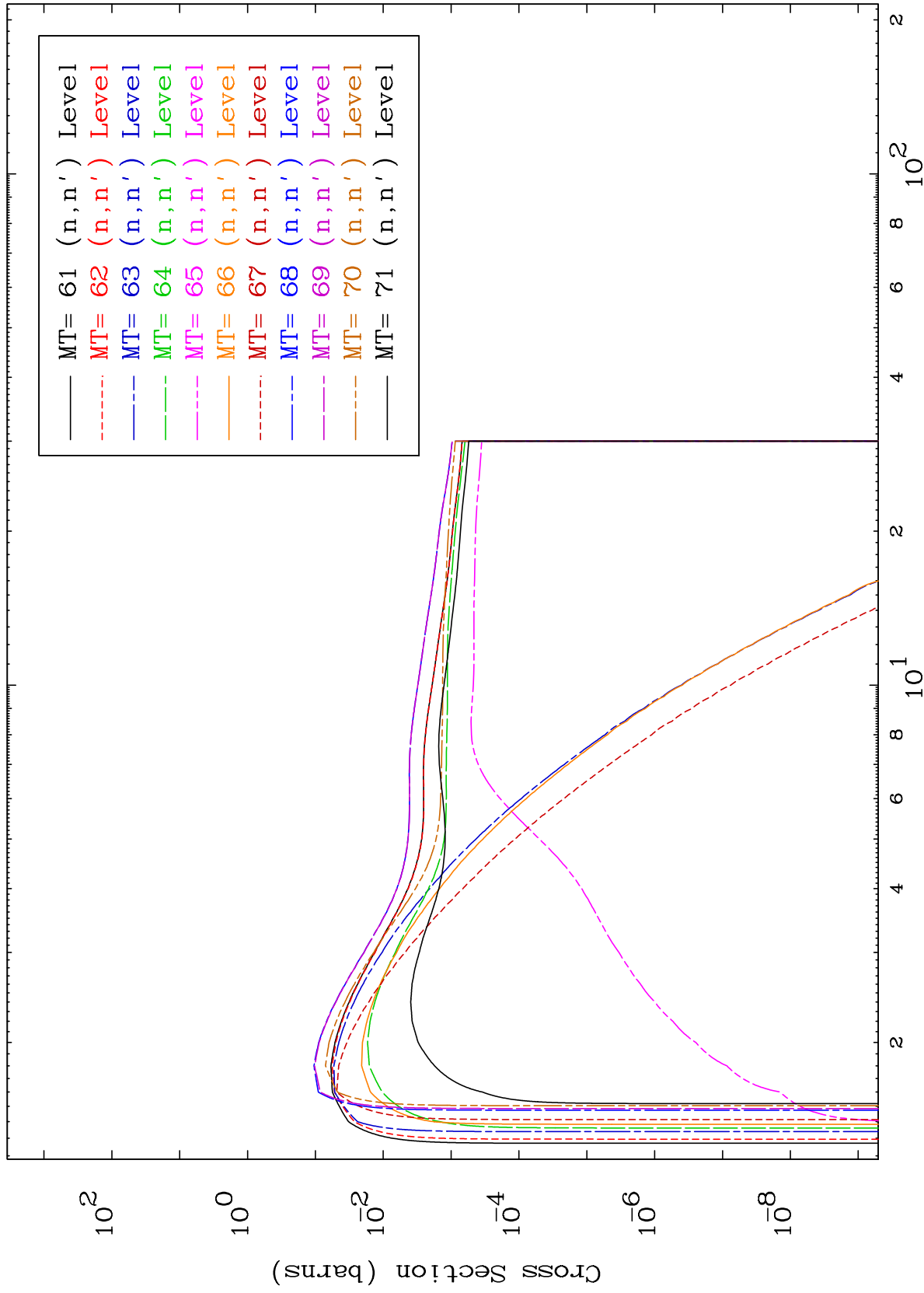
70-Yb-172

MAT 7037

(n,n') Level

293 Kelvin Cross Sections

70-Yb-172



8

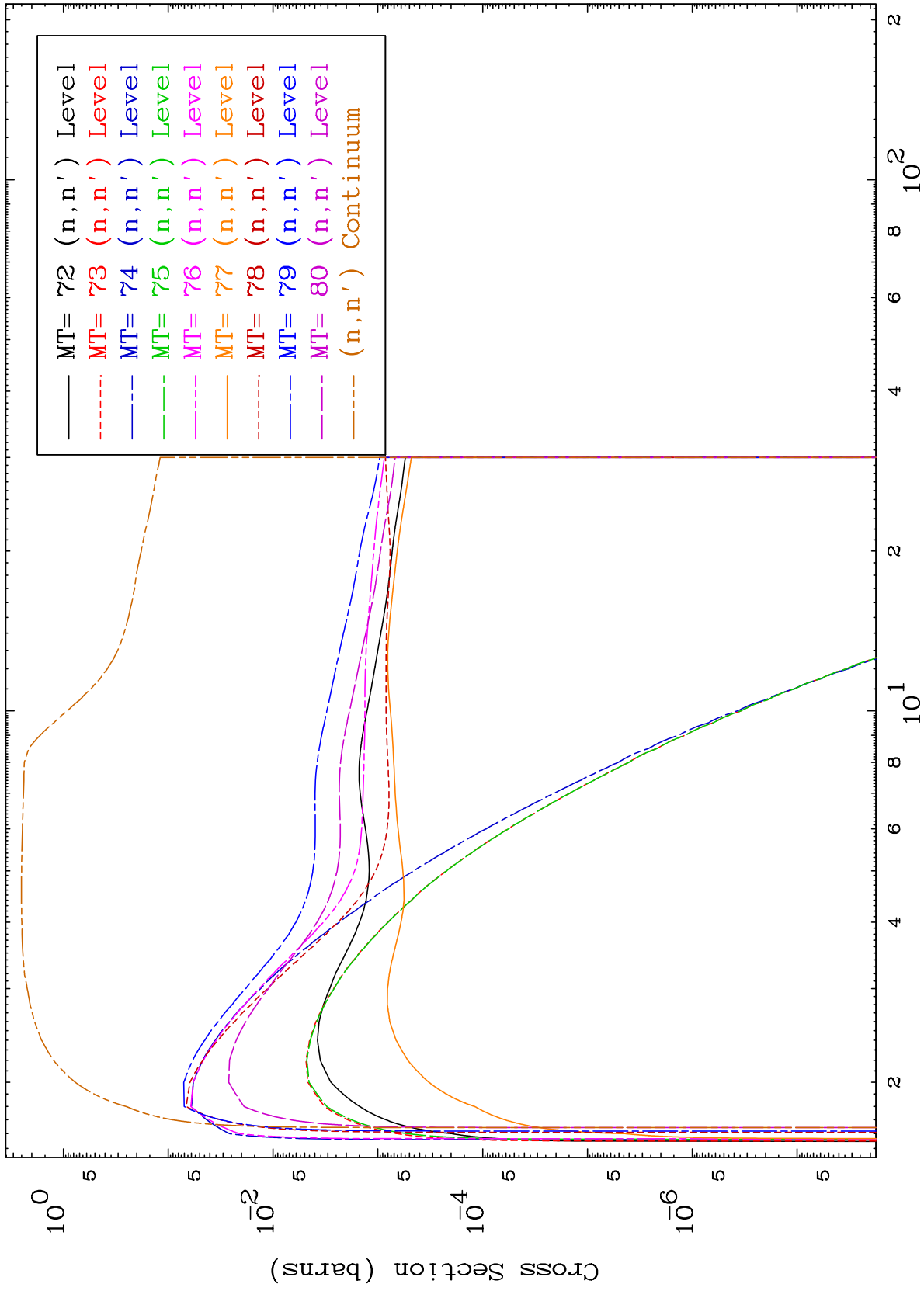
Incident Energy (MeV)

70-Yb-172

MAT 7037

(n,n') Level
293 Kelvin Cross Sections

70-Yb-172



9

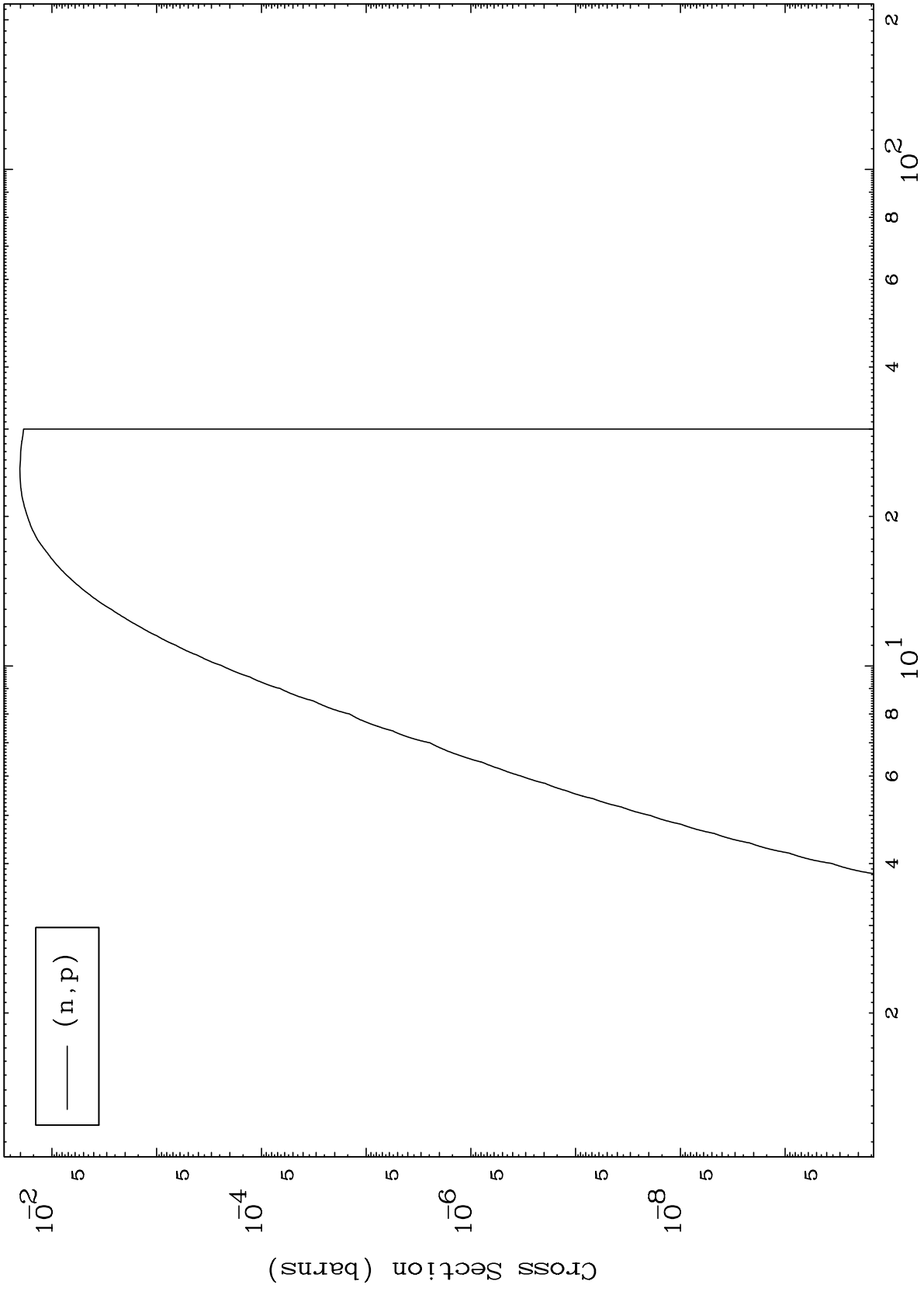
Incident Energy (MeV)

70-Yb-172

MAT 7037

(n,p) Levels
293 Kelvin Cross Sections

70-Yb-172



10

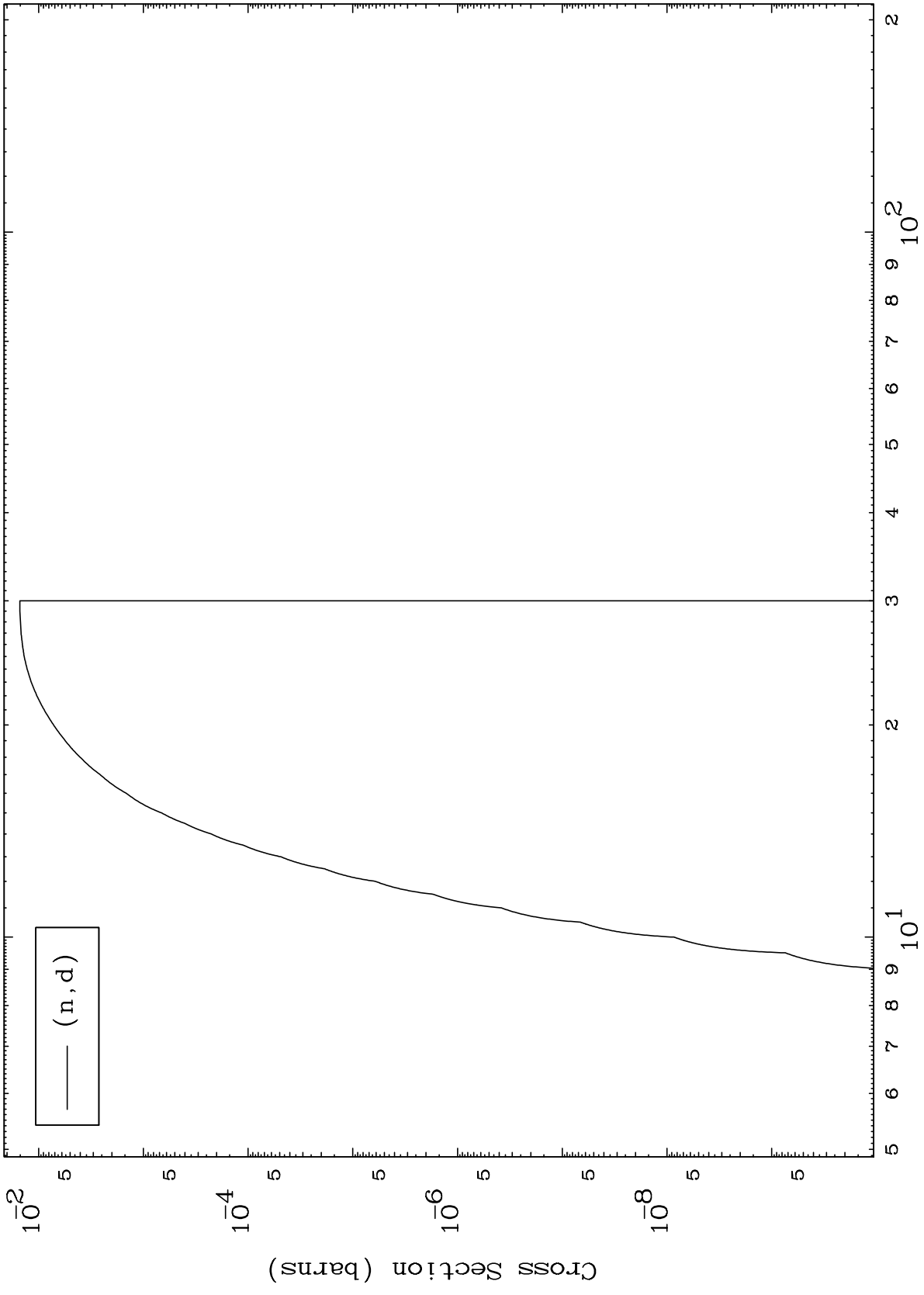
Incident Energy (MeV)

70-Yb-172

MAT 7037

(n,d) Levels
293 Kelvin Cross Sections

70-Yb-172



11

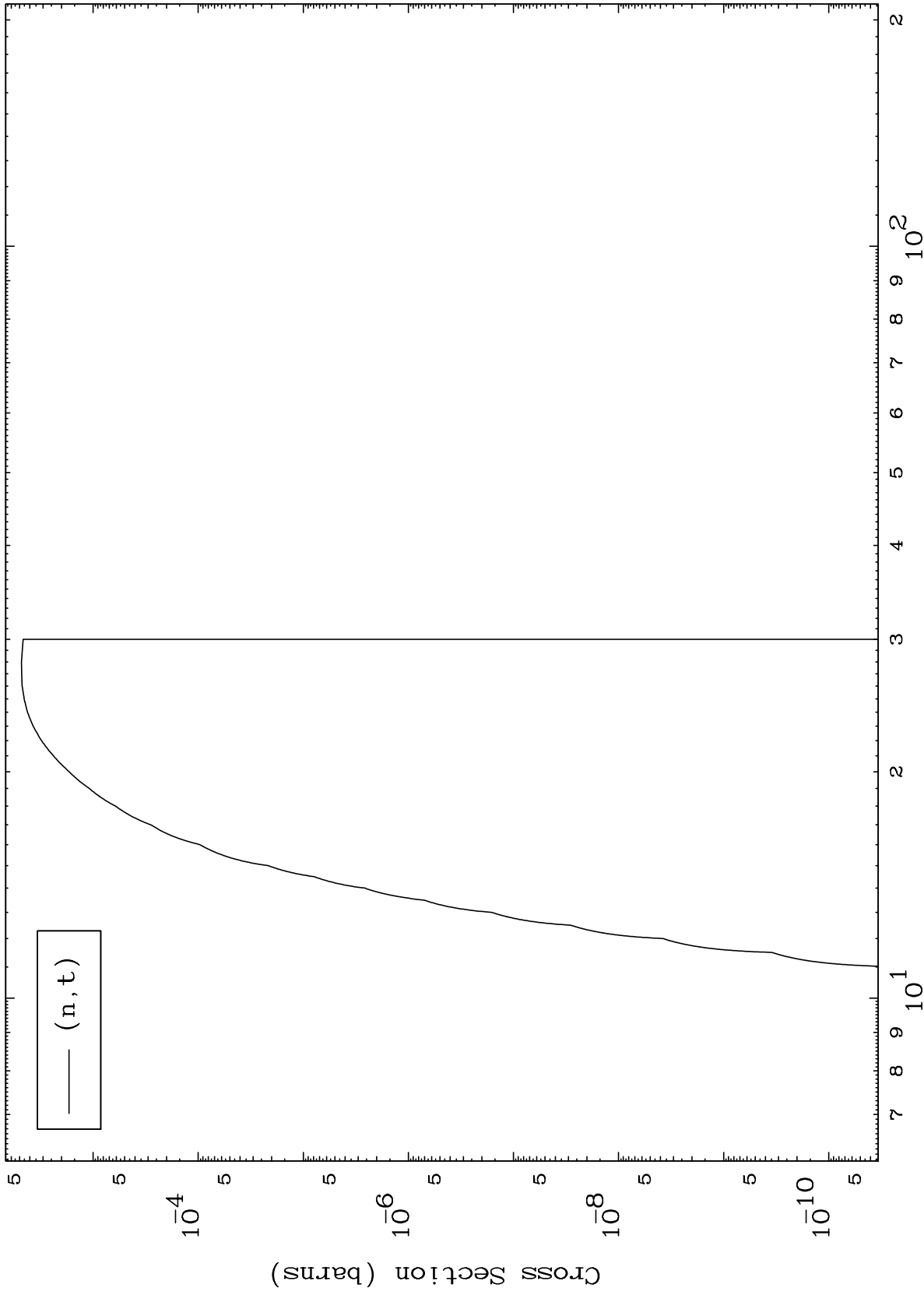
Incident Energy (MeV)

70-Yb-172

MAT 7037

(n,t) Levels
293 Kelvin Cross Sections

70-Yb-172



12

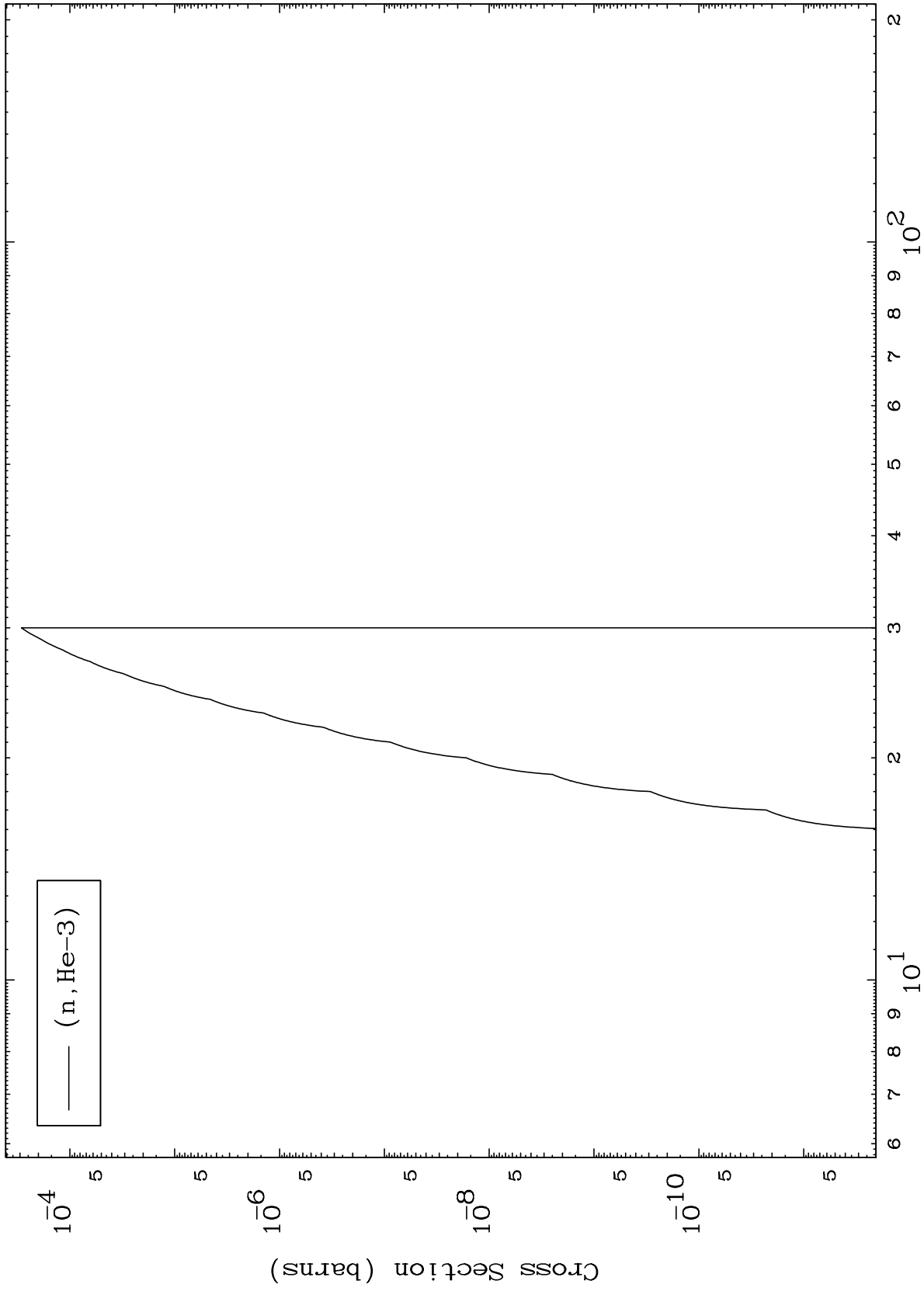
Incident Energy (MeV)

70-Yb-172

MAT 7037

(n,He3) Levels
293 Kelvin Cross Sections

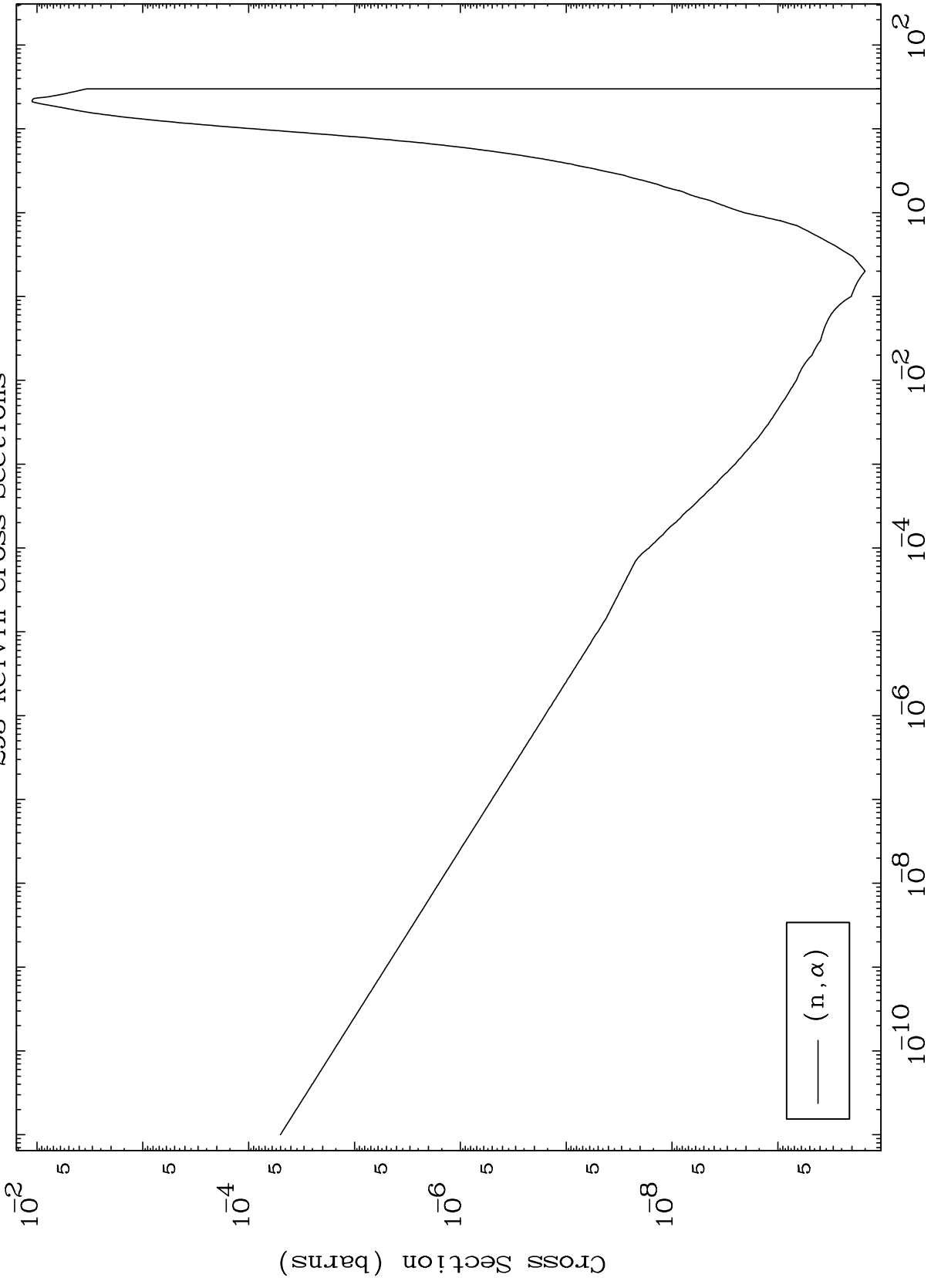
70-Yb-172



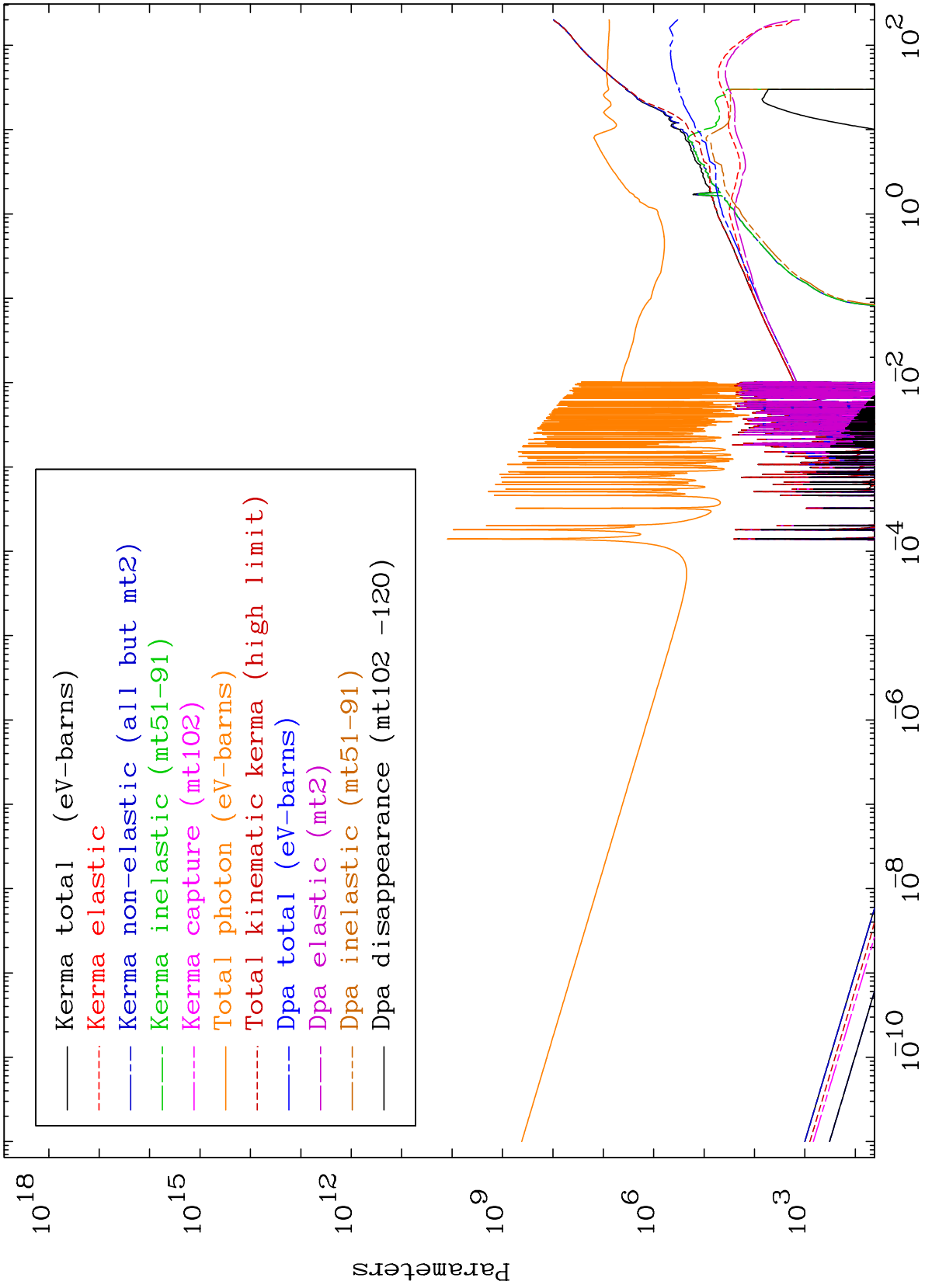
MAT 7037

(n, α) Levels
293 Kelvin Cross Sections

70-Yb-172



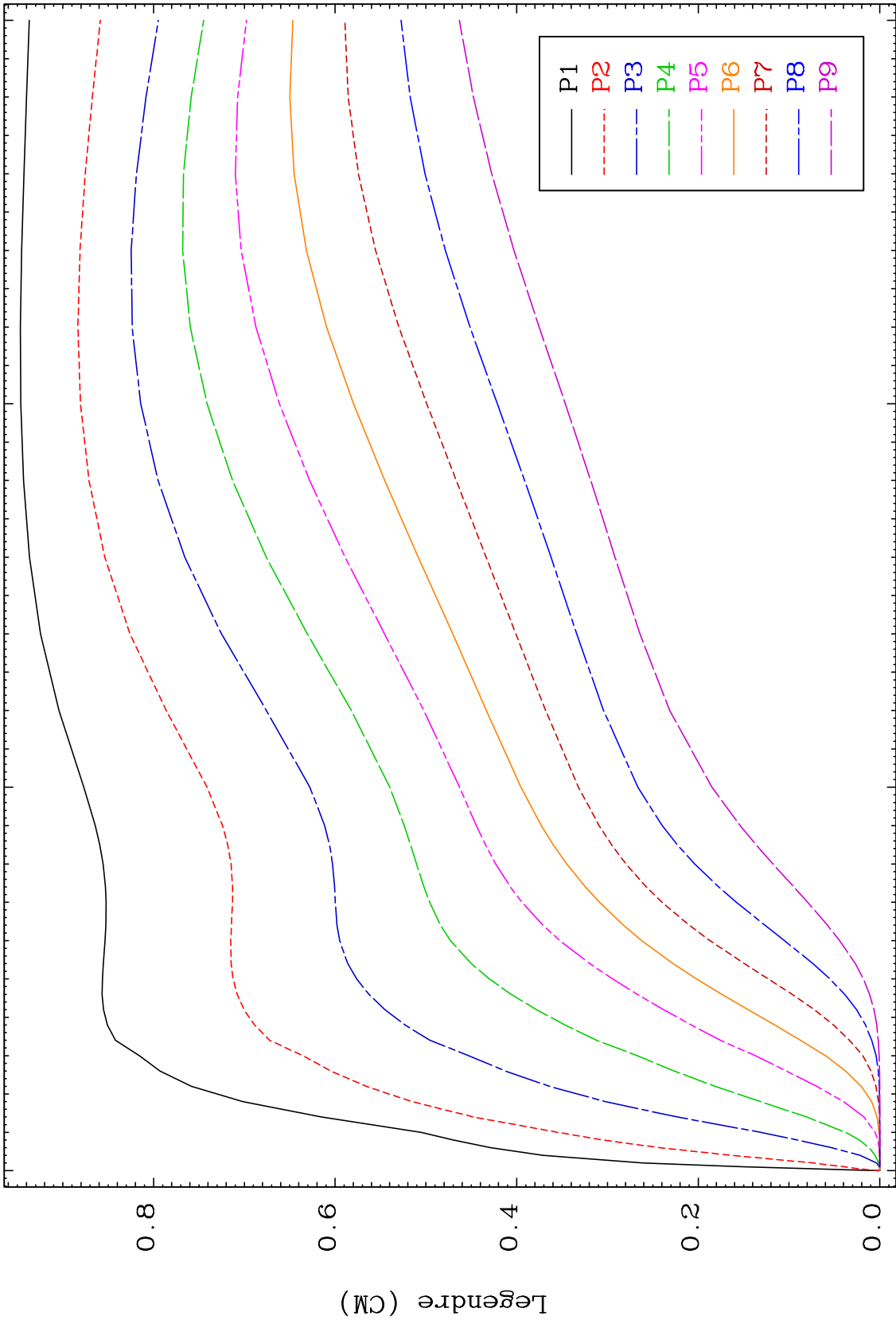
70-Yb-172



70-Yb-172

Elastic Legendre Coefficients

MAT 7037



70-Yb-172

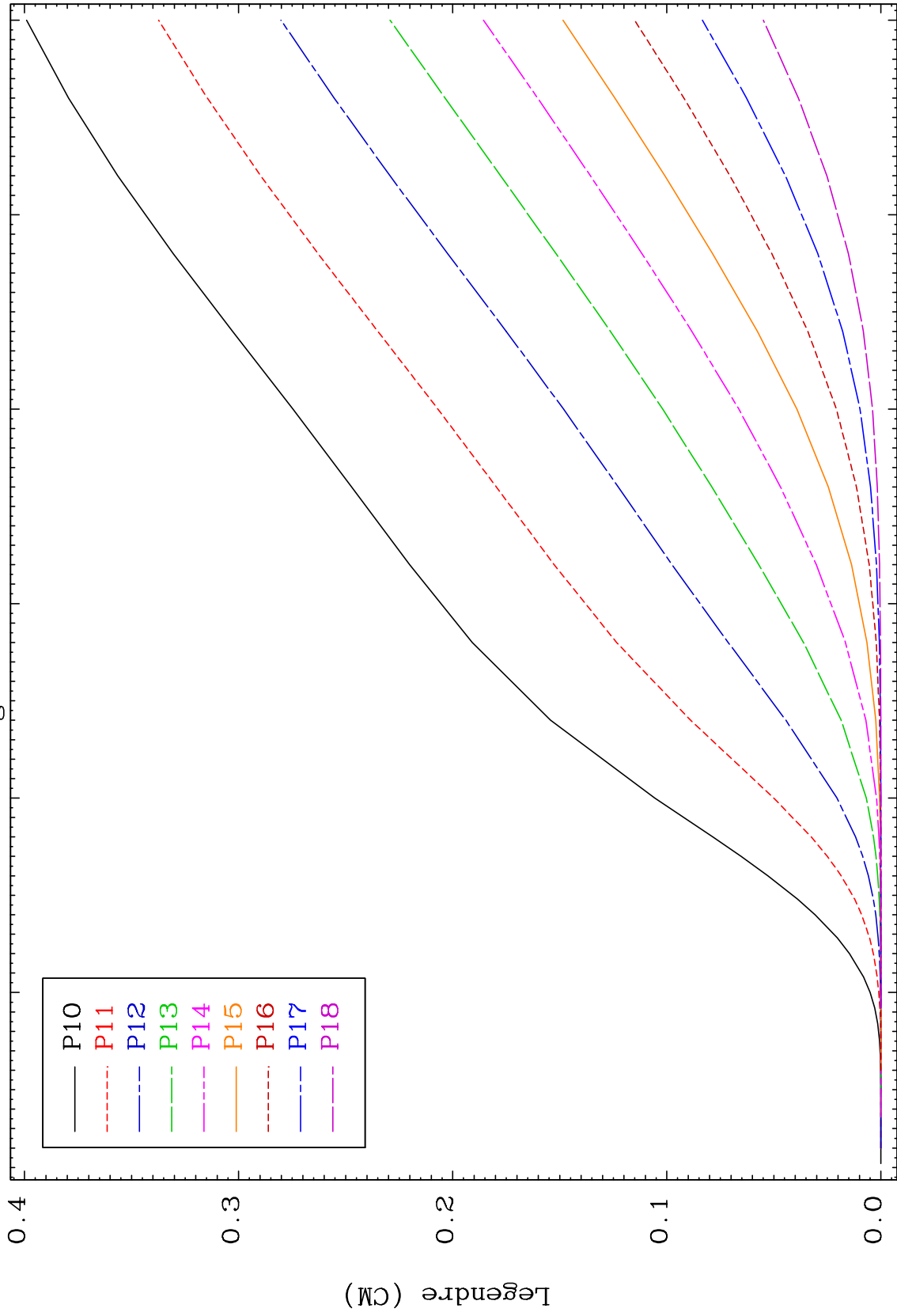
Incident Energy (MeV)

16

MAT 7037

Elastic Legendre Coefficients

70-Yb-172



17

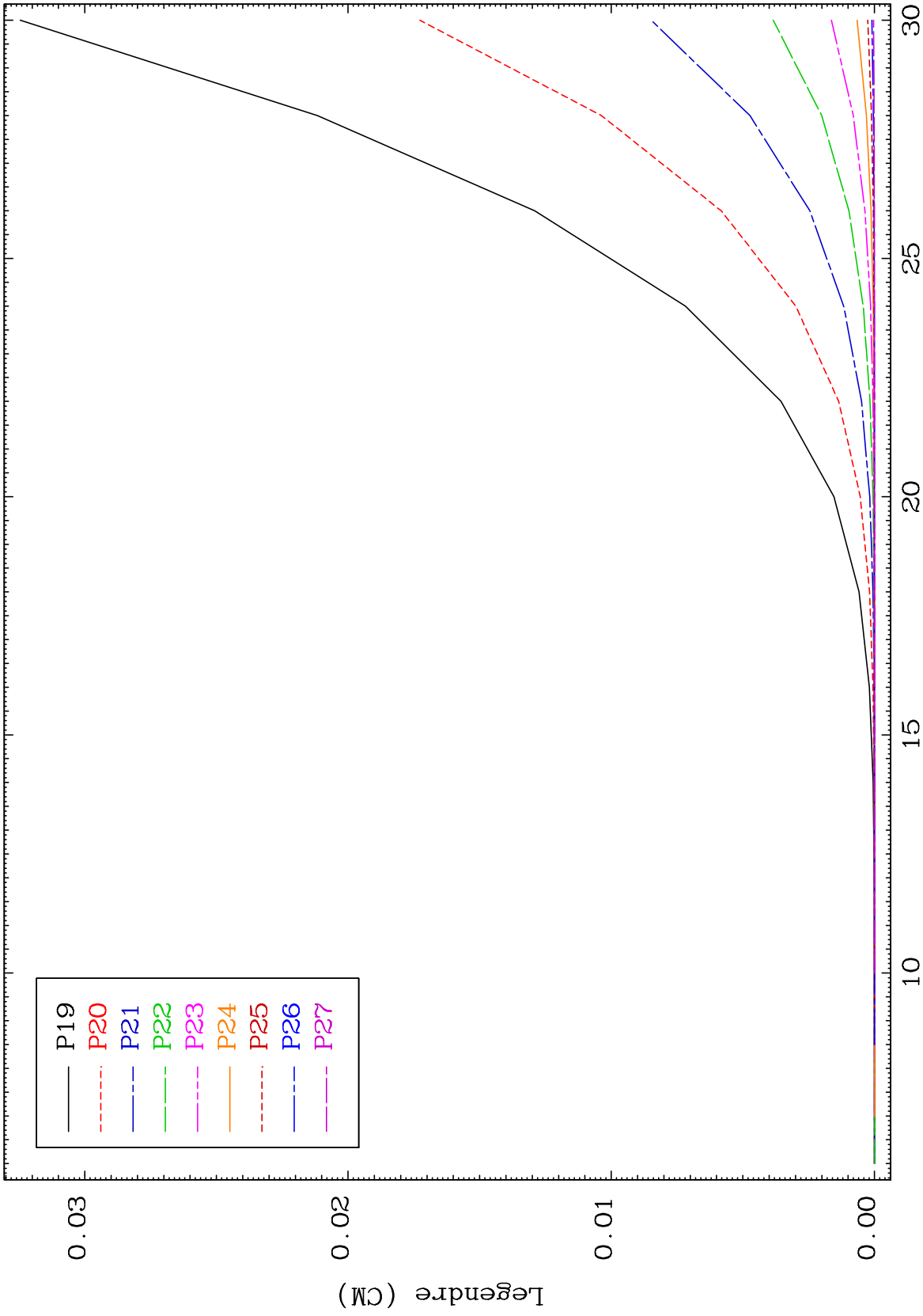
Incident Energy (MeV)

70-Yb-172

MAT 7037

Elastic Legendre Coefficients

70-Yb-172



18

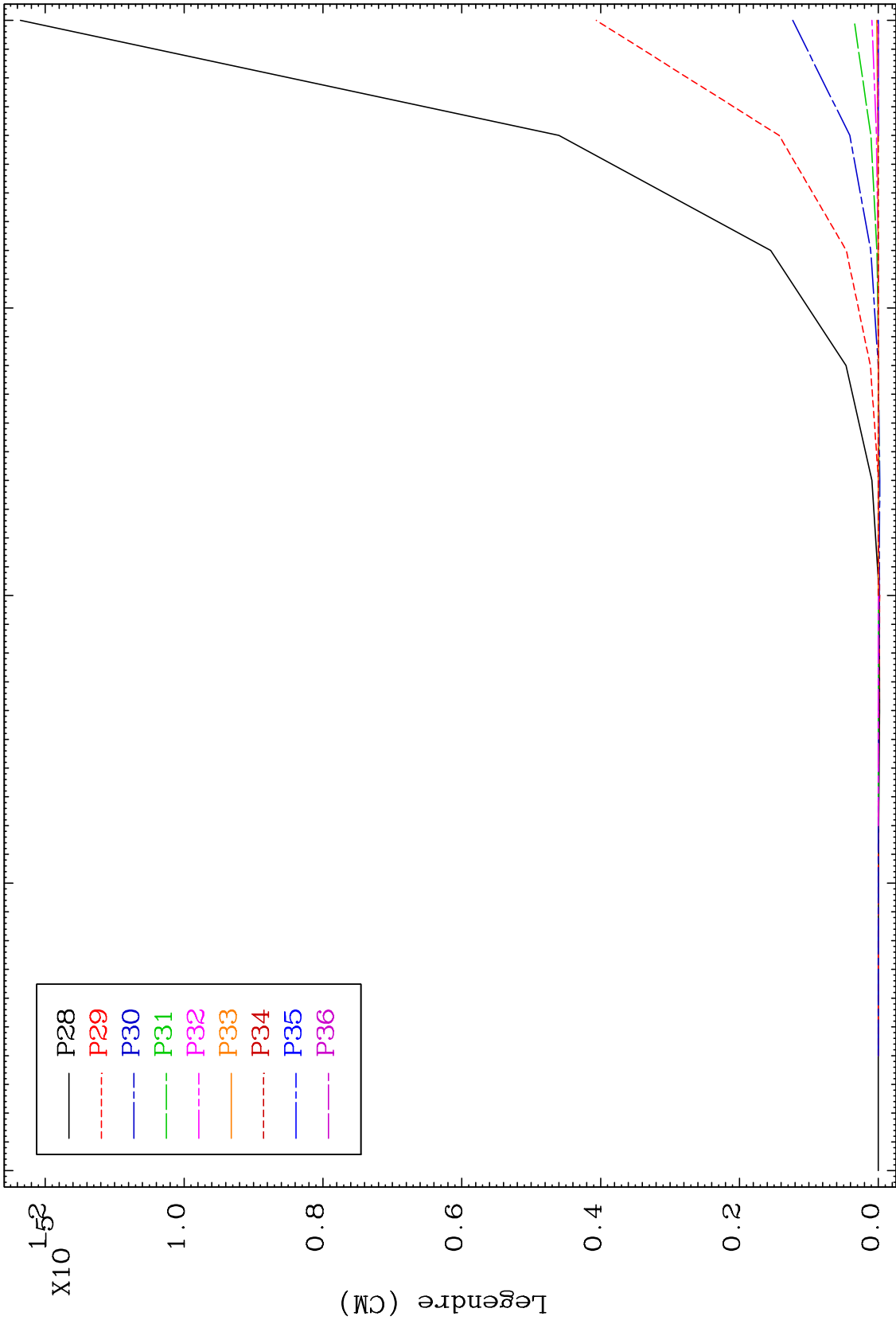
Incident Energy (MeV)

70-Yb-172

MAT 7037

Elastic Legendre Coefficients

70-Yb-172



19

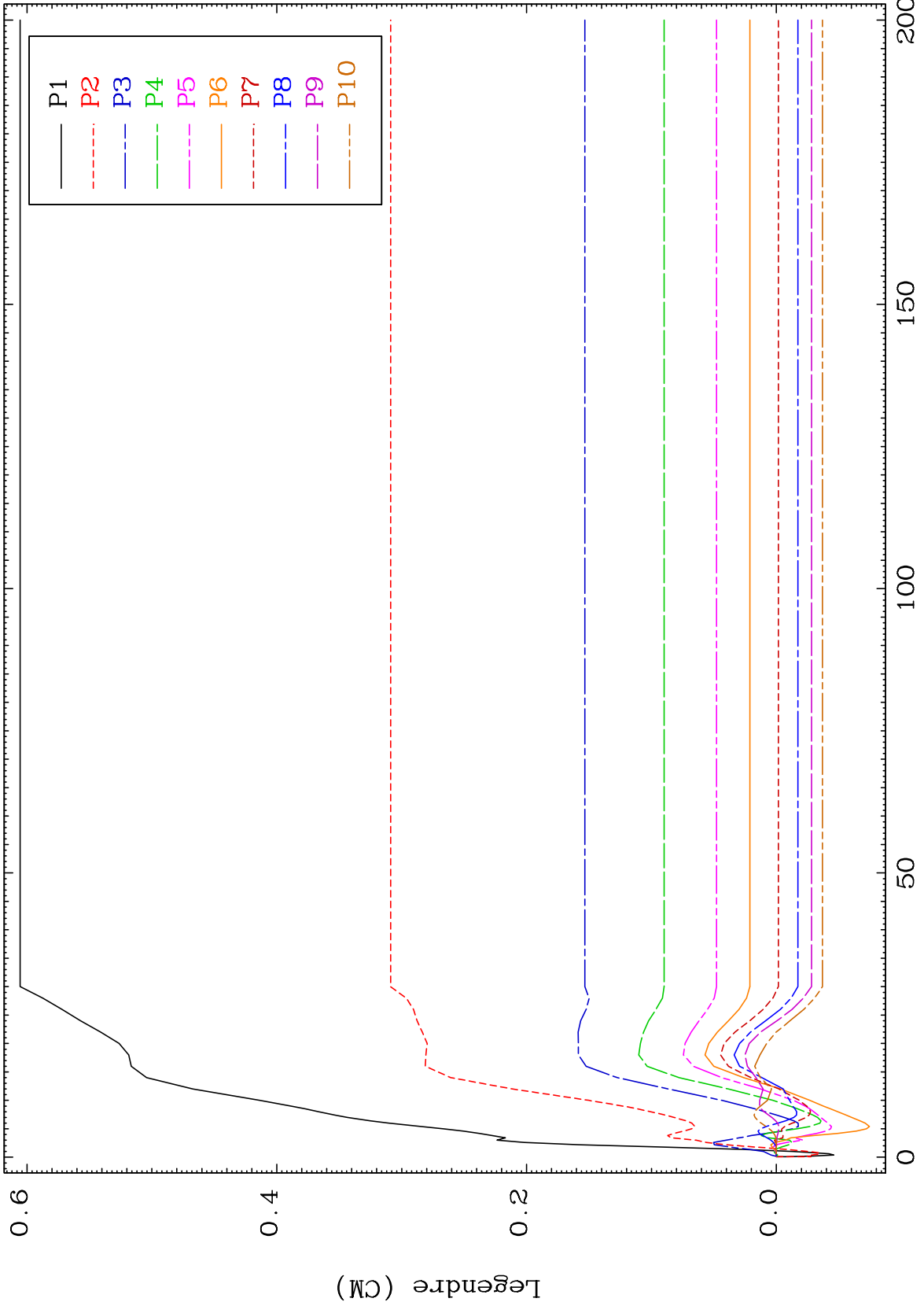
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



70-Yb-172

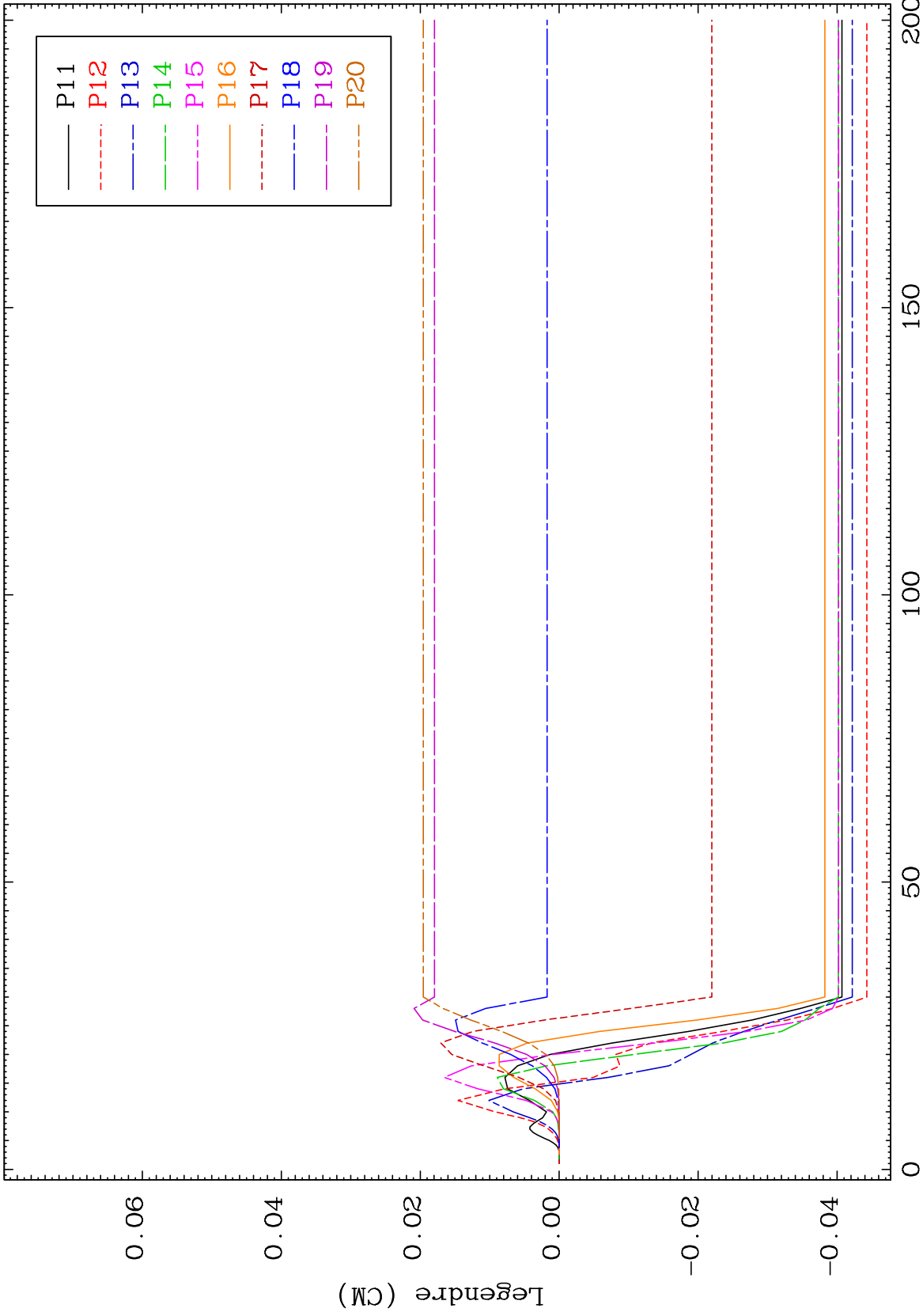
Incident Energy (MeV)

20

MAT 7037

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

70-Yb-172



21

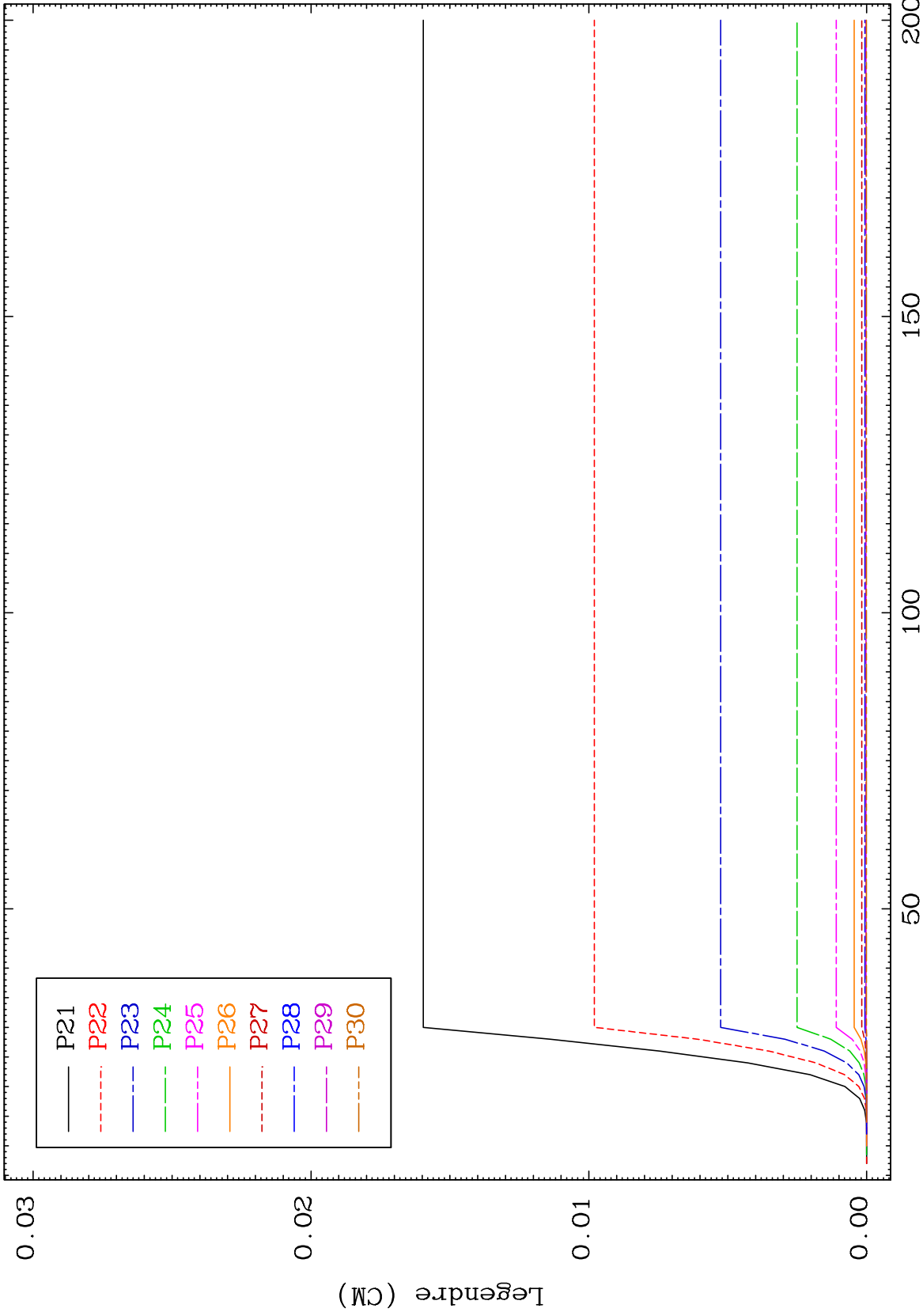
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



22

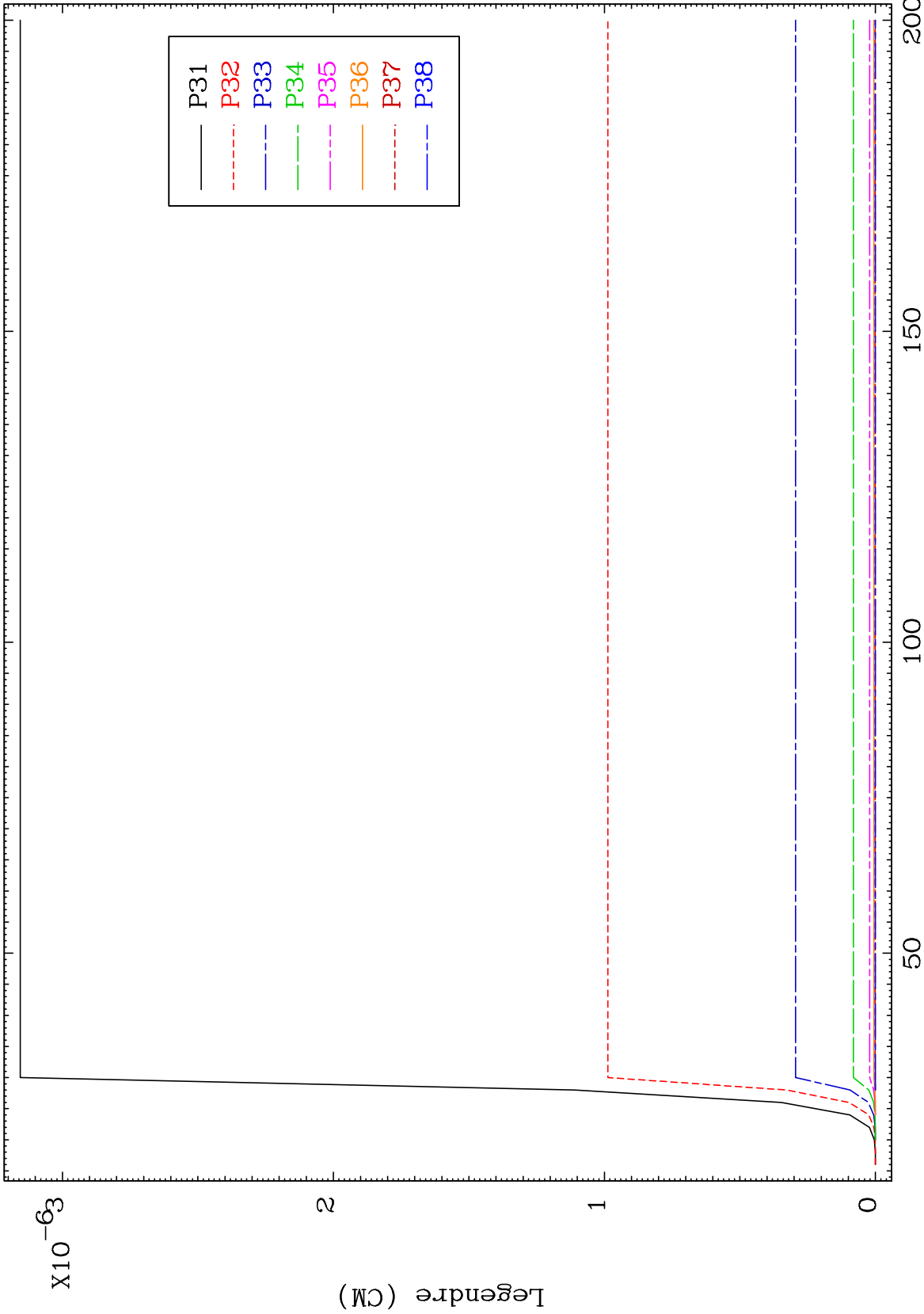
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



23

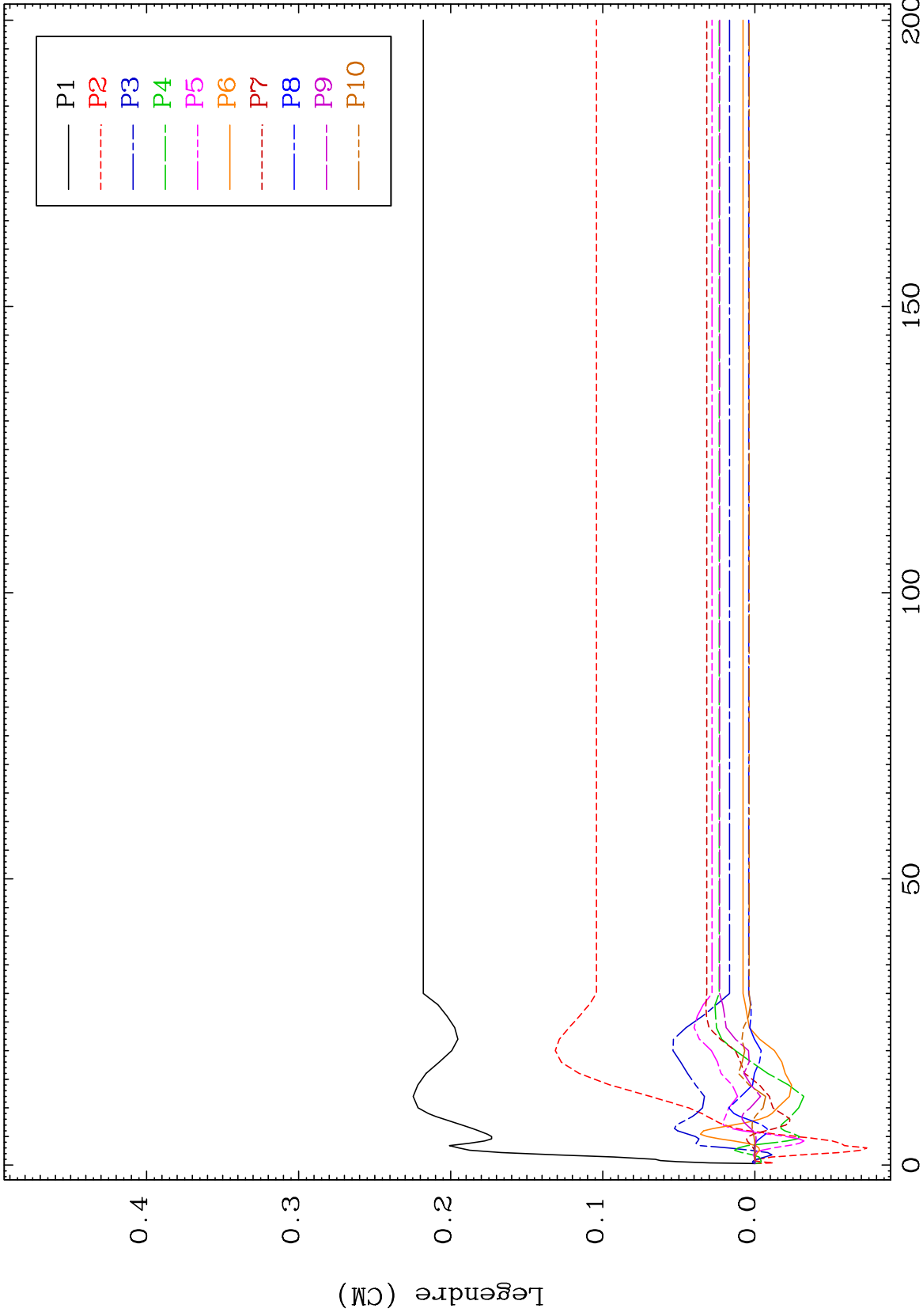
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



24

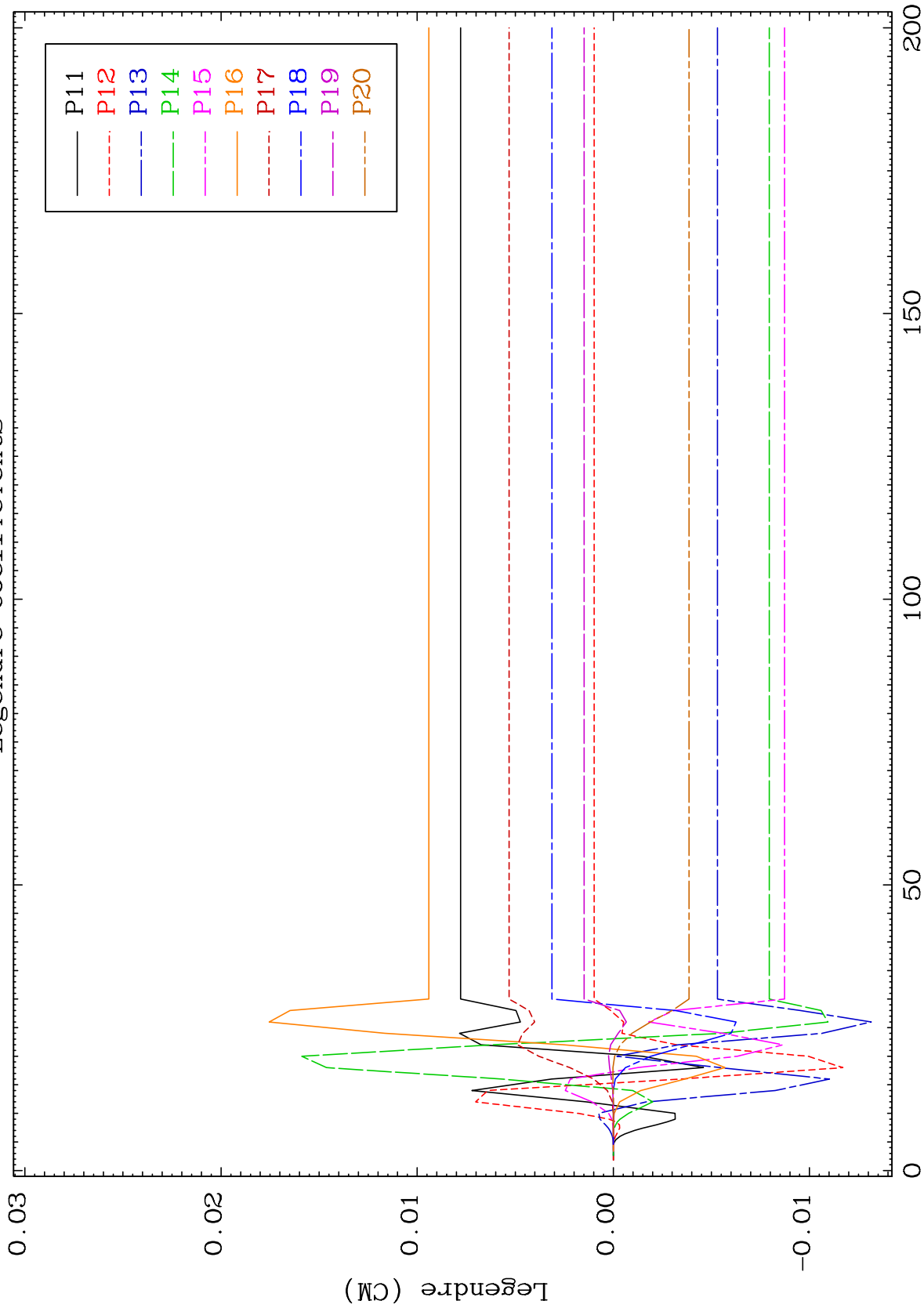
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



25

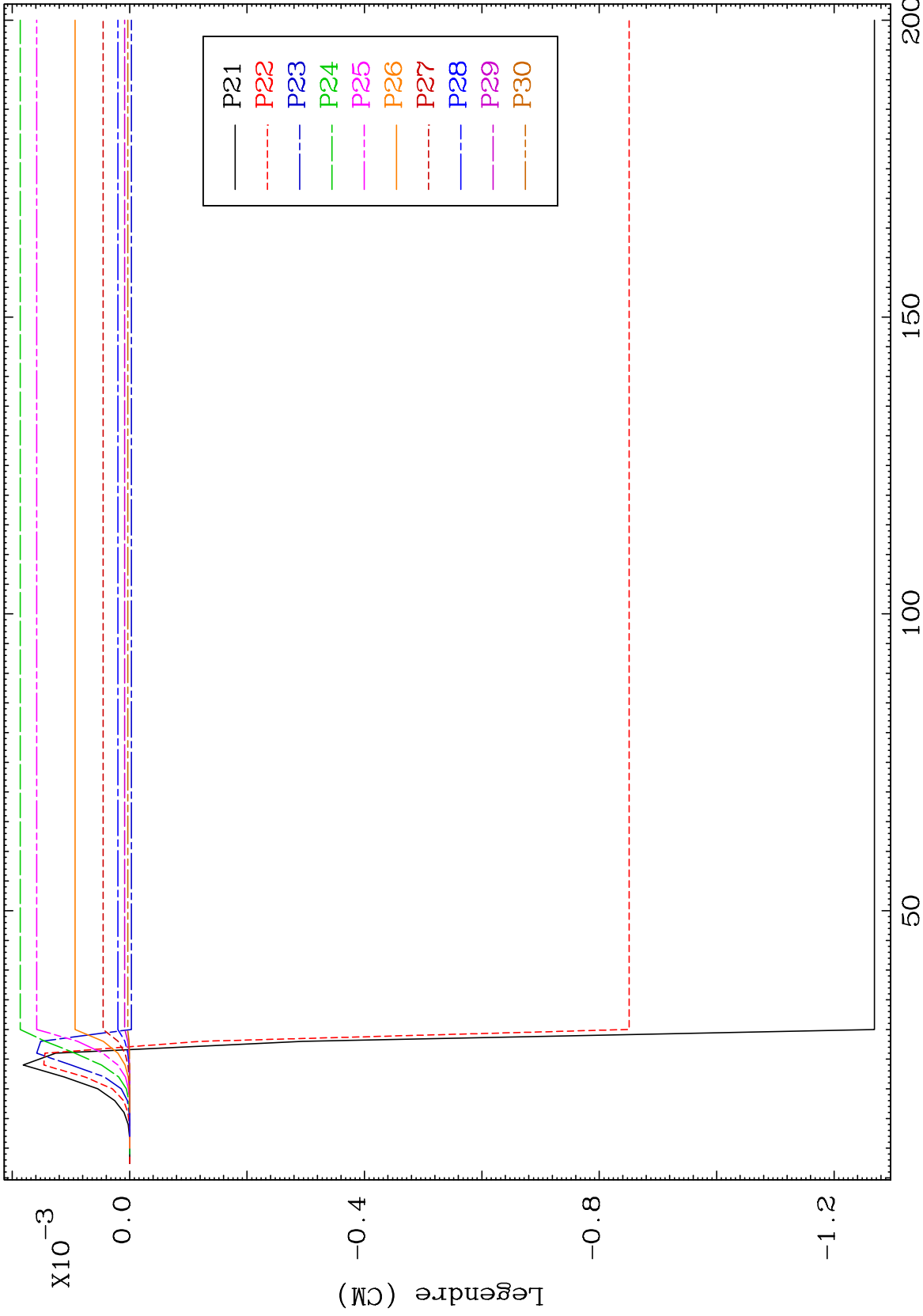
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



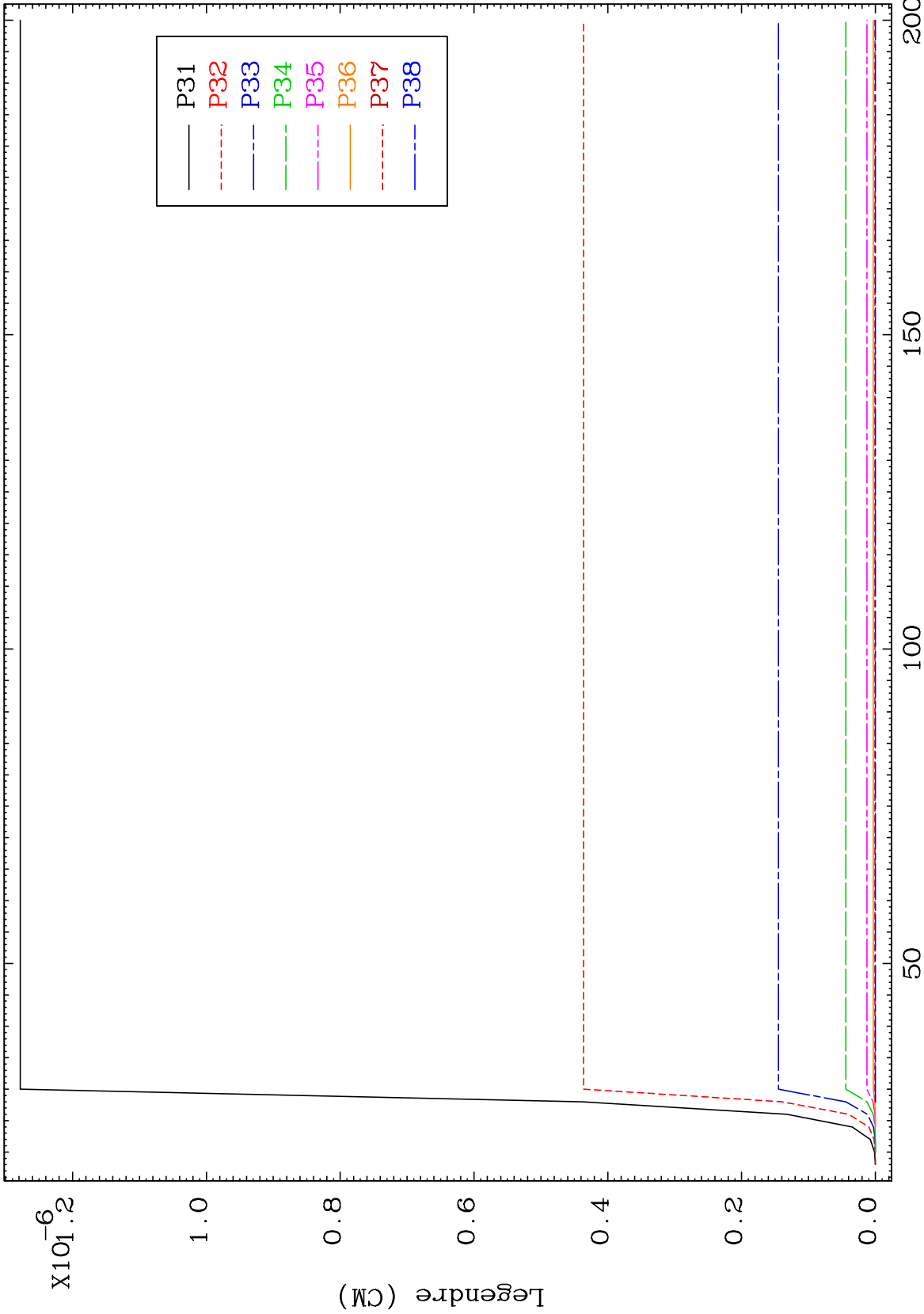
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70-Yb-172

MAT 7037

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

70-Yb-172



27

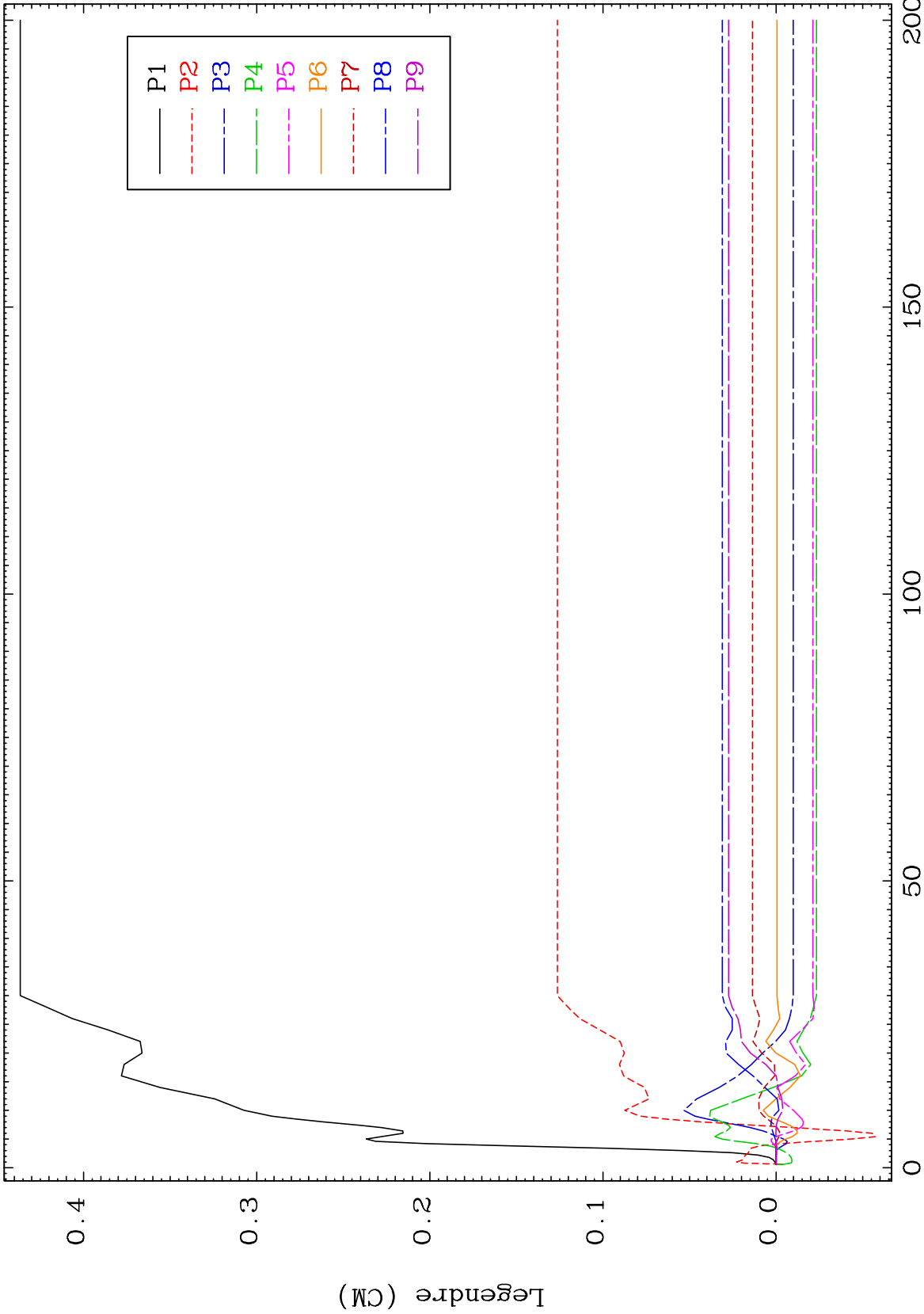
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



28

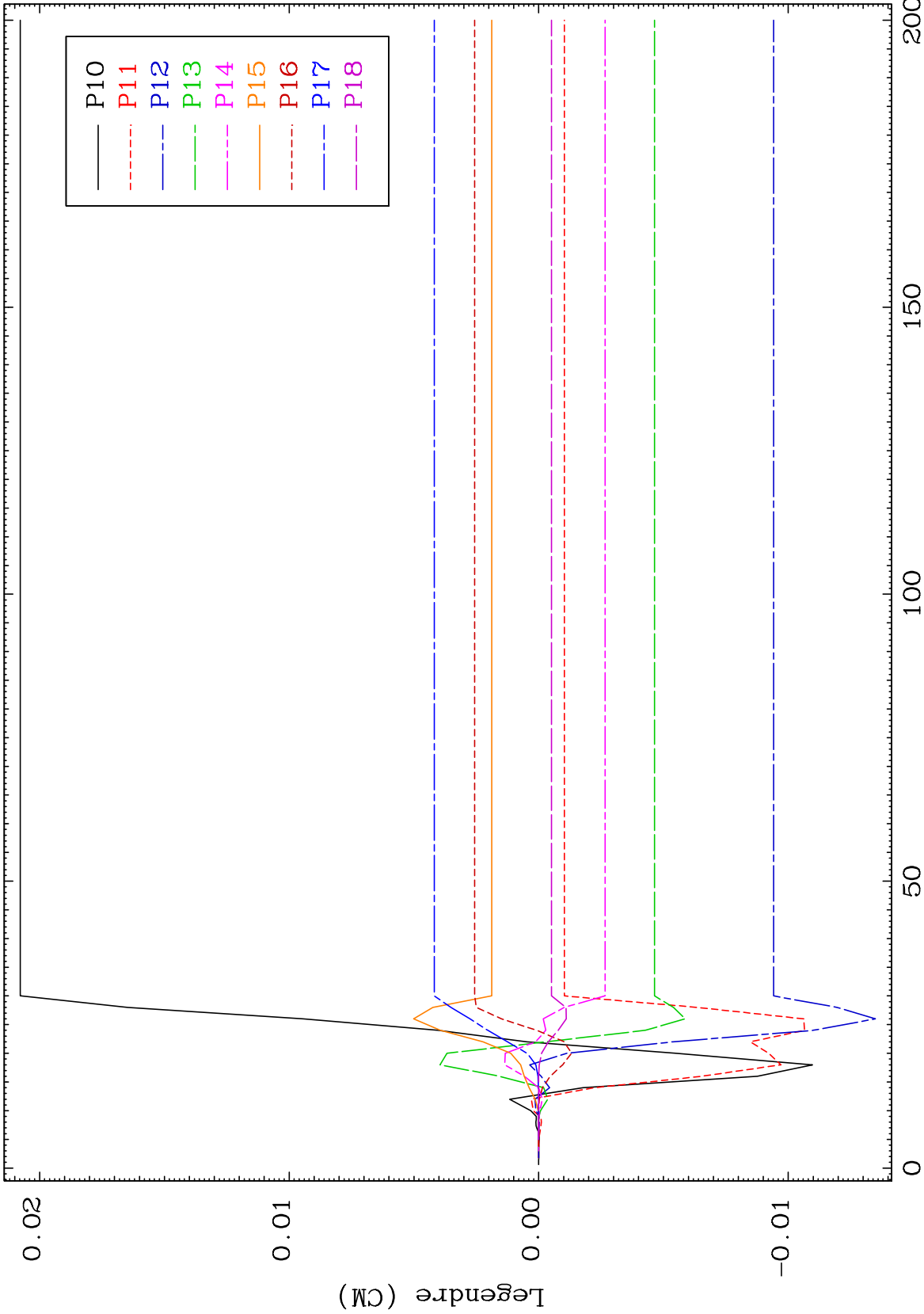
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



29

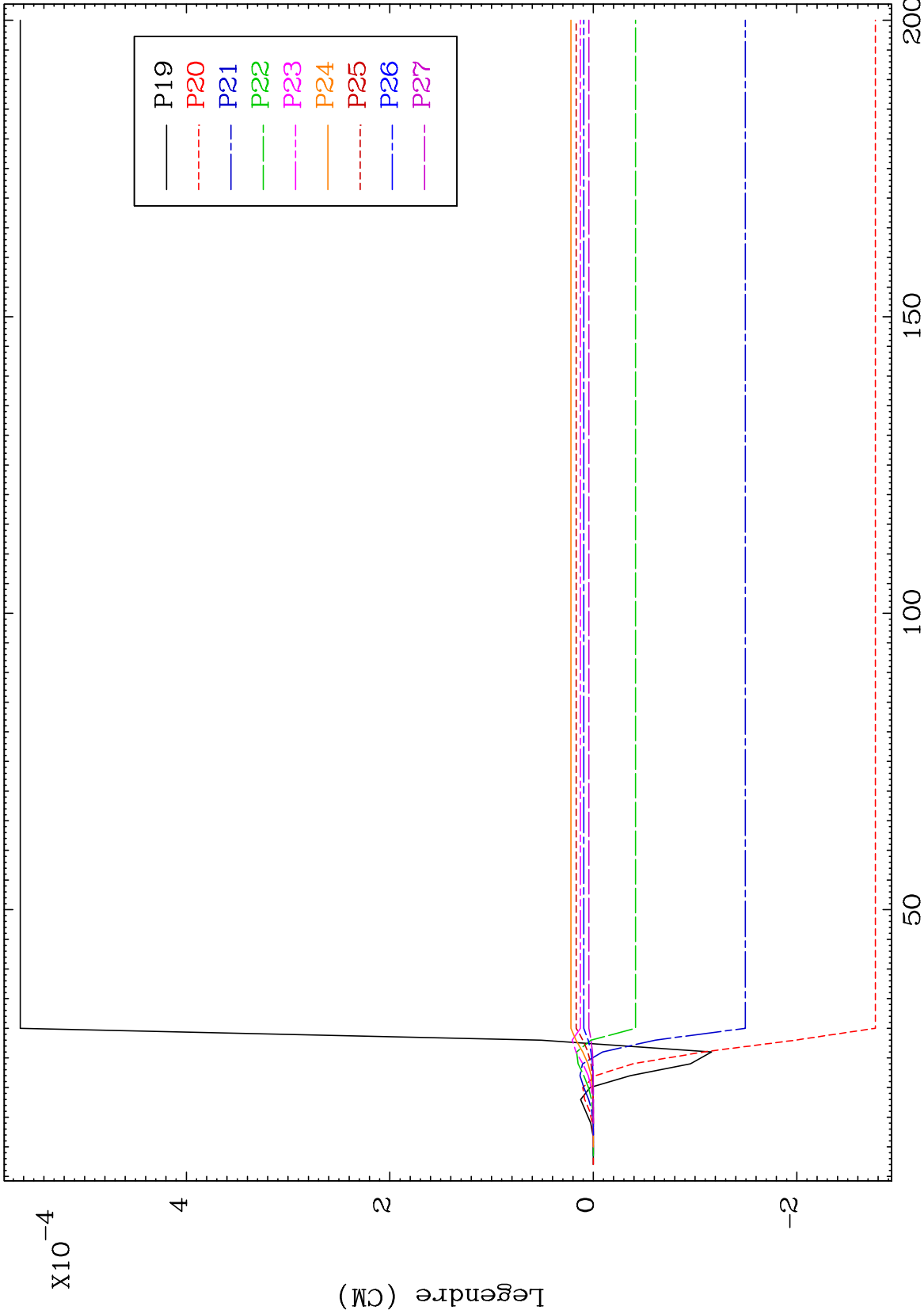
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



30

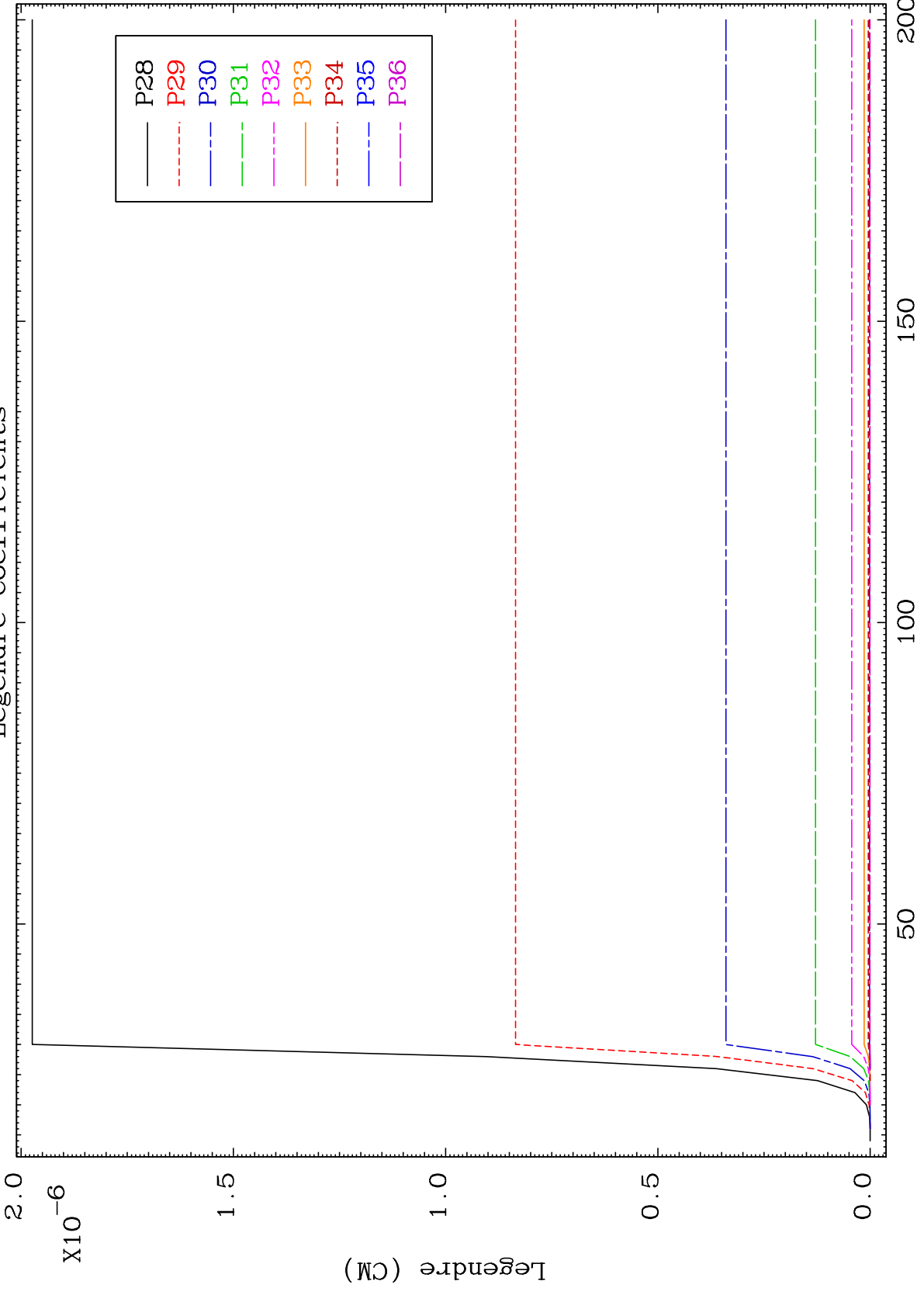
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

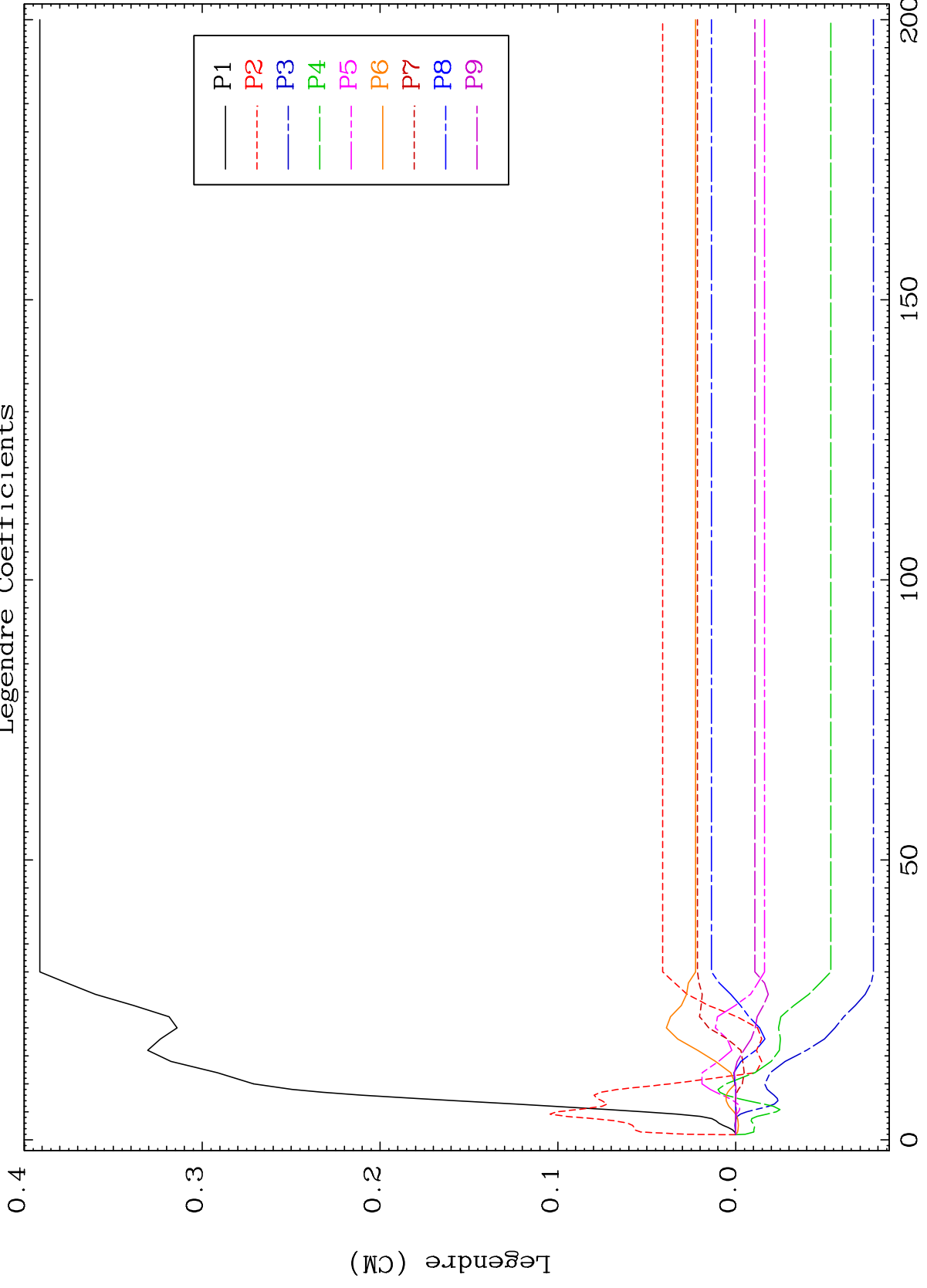
70-Yb-172



31

70-Yb-172

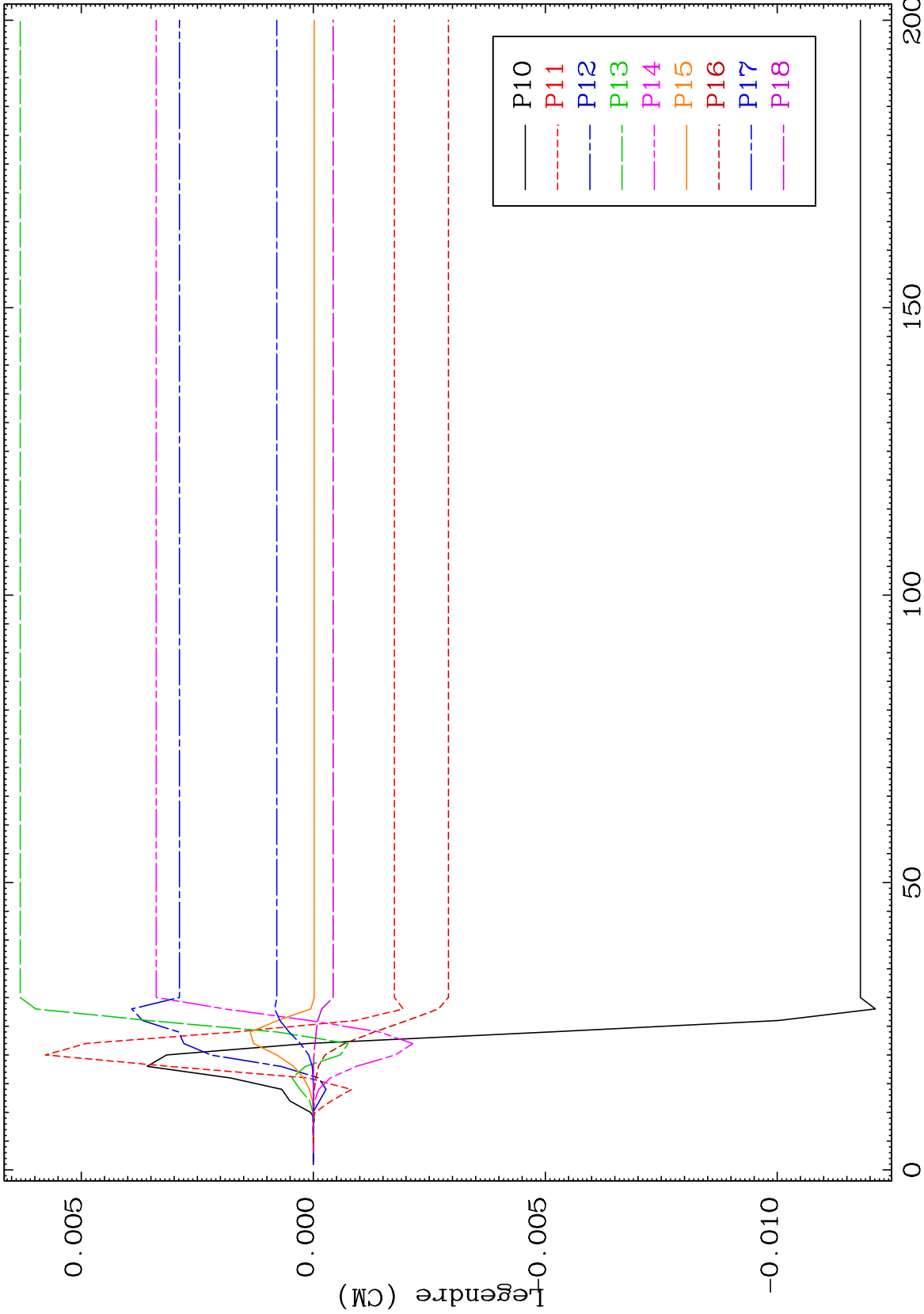
MAT 7037 MT= 54 (n,n') Level Legendre Coefficients 70-Yb-172



MAT 7037

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

70-Yb-172



33

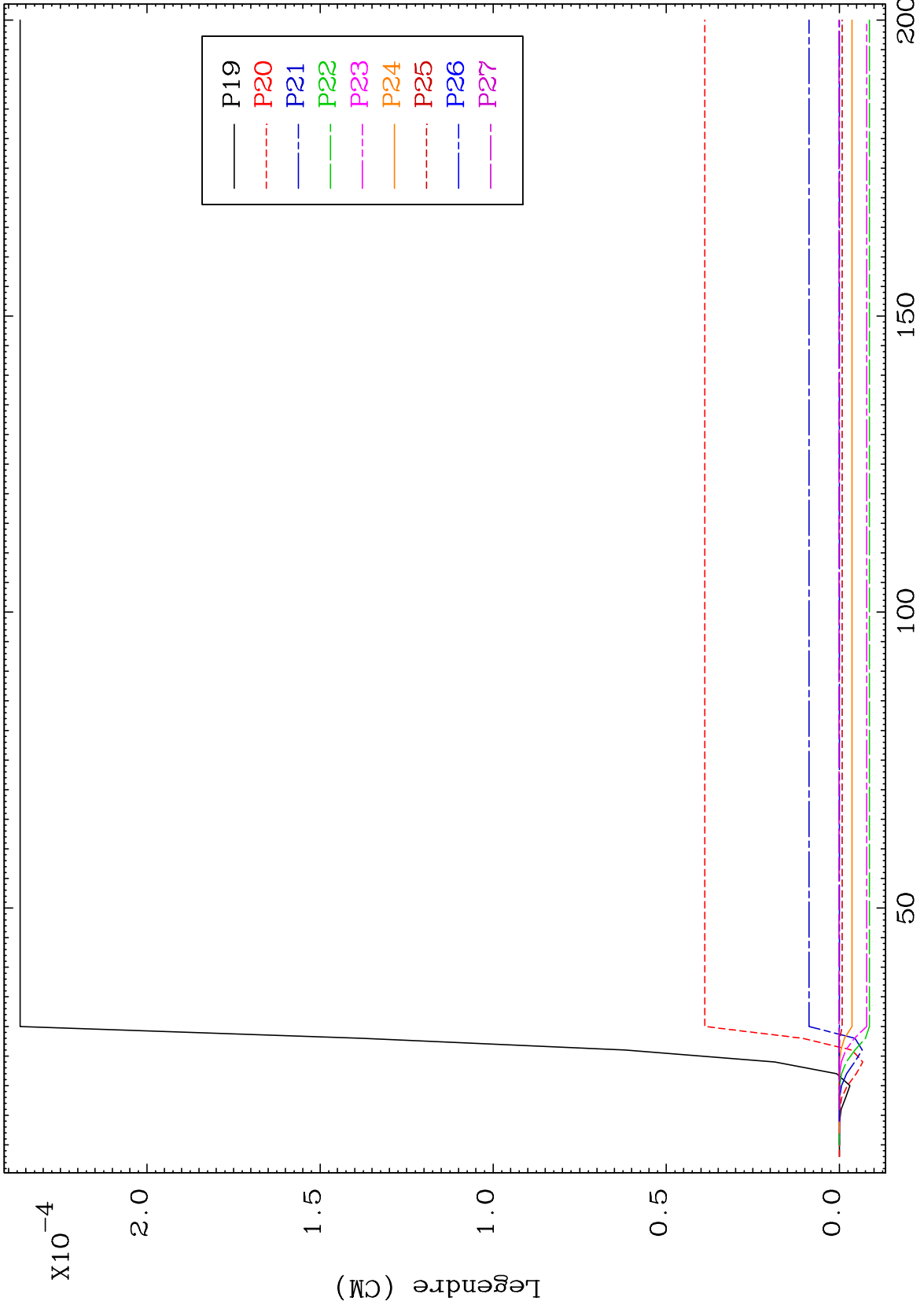
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



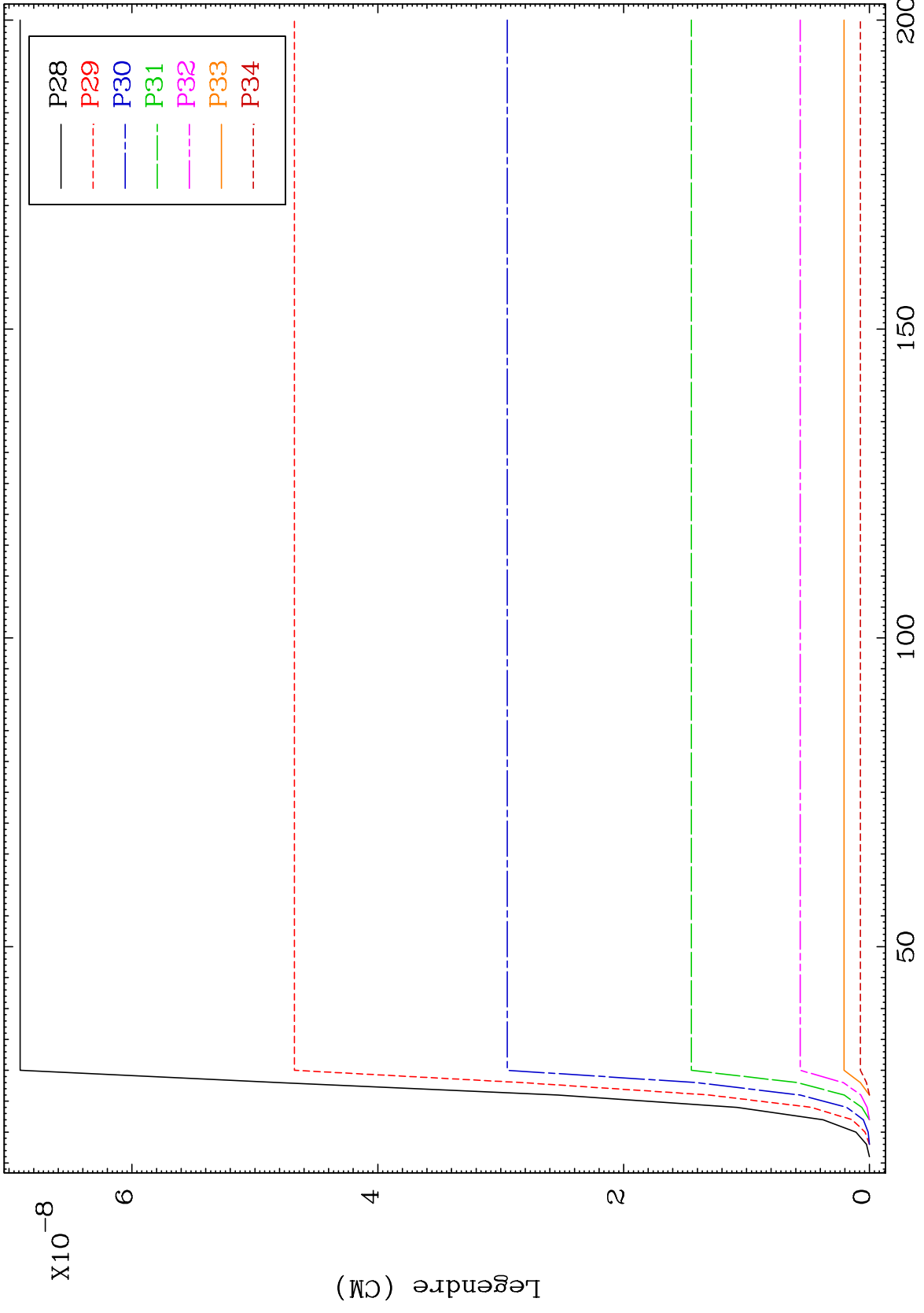
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70-Yb-172

MAT 7037

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

70-Yb-172



35

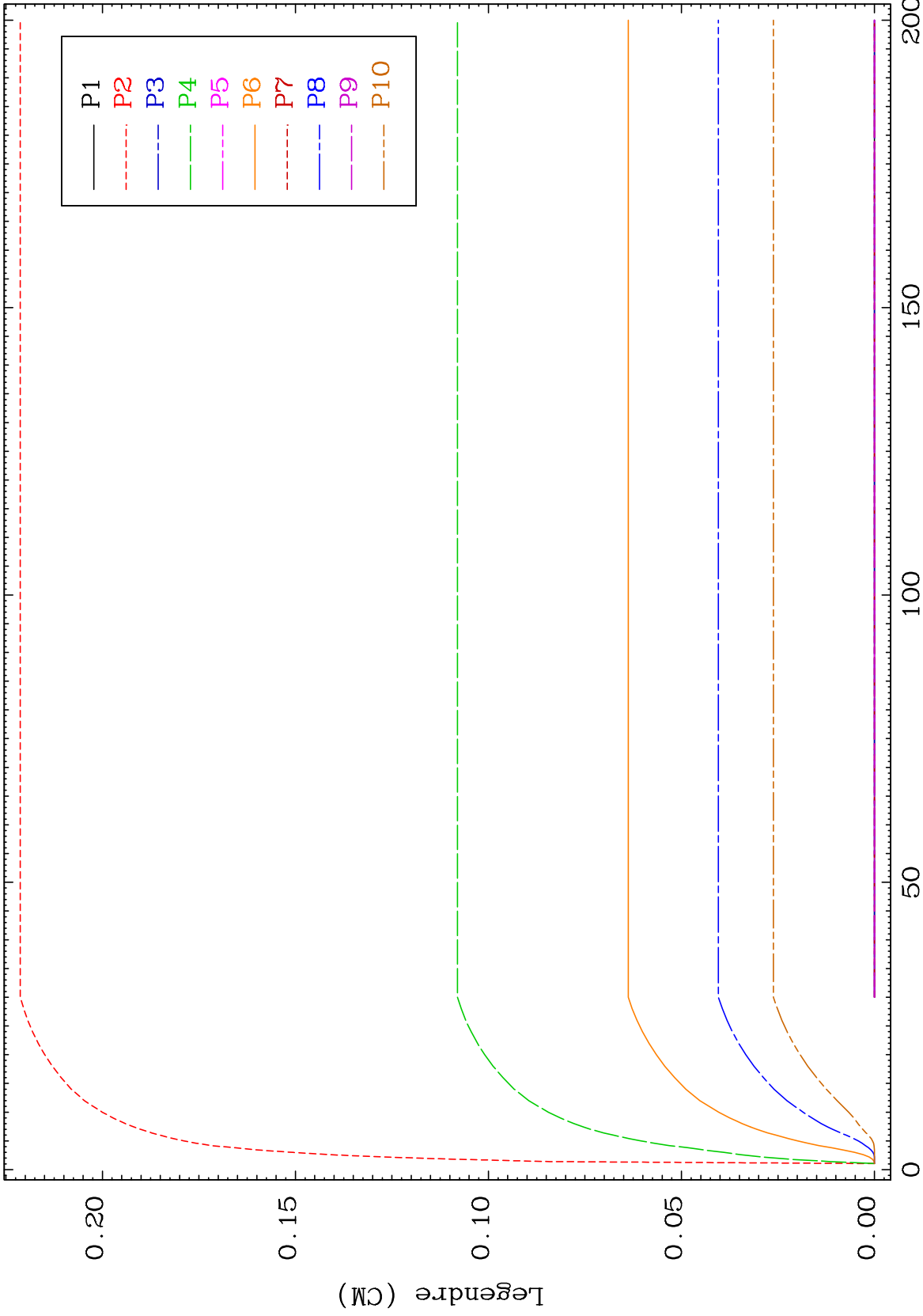
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



36

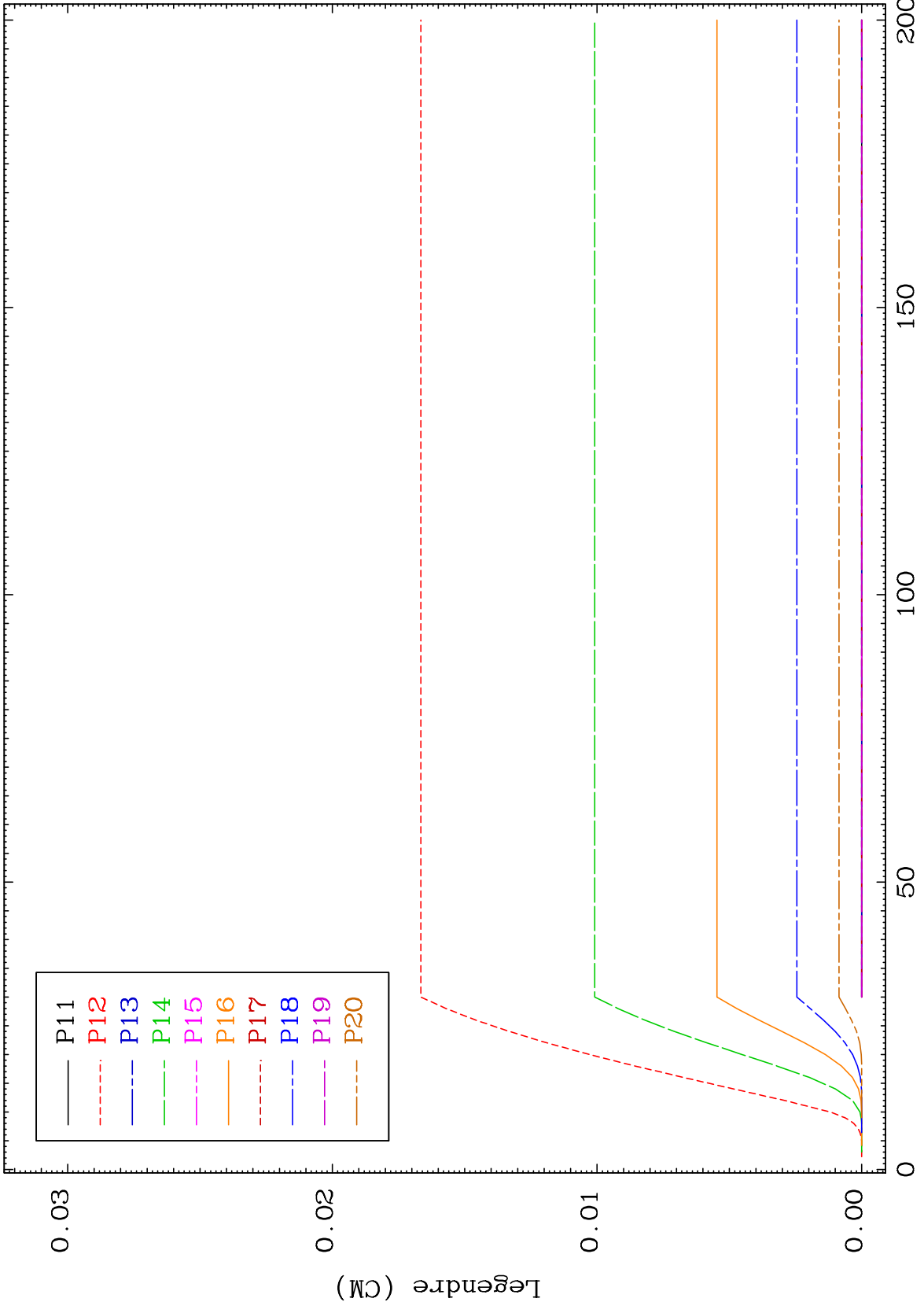
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



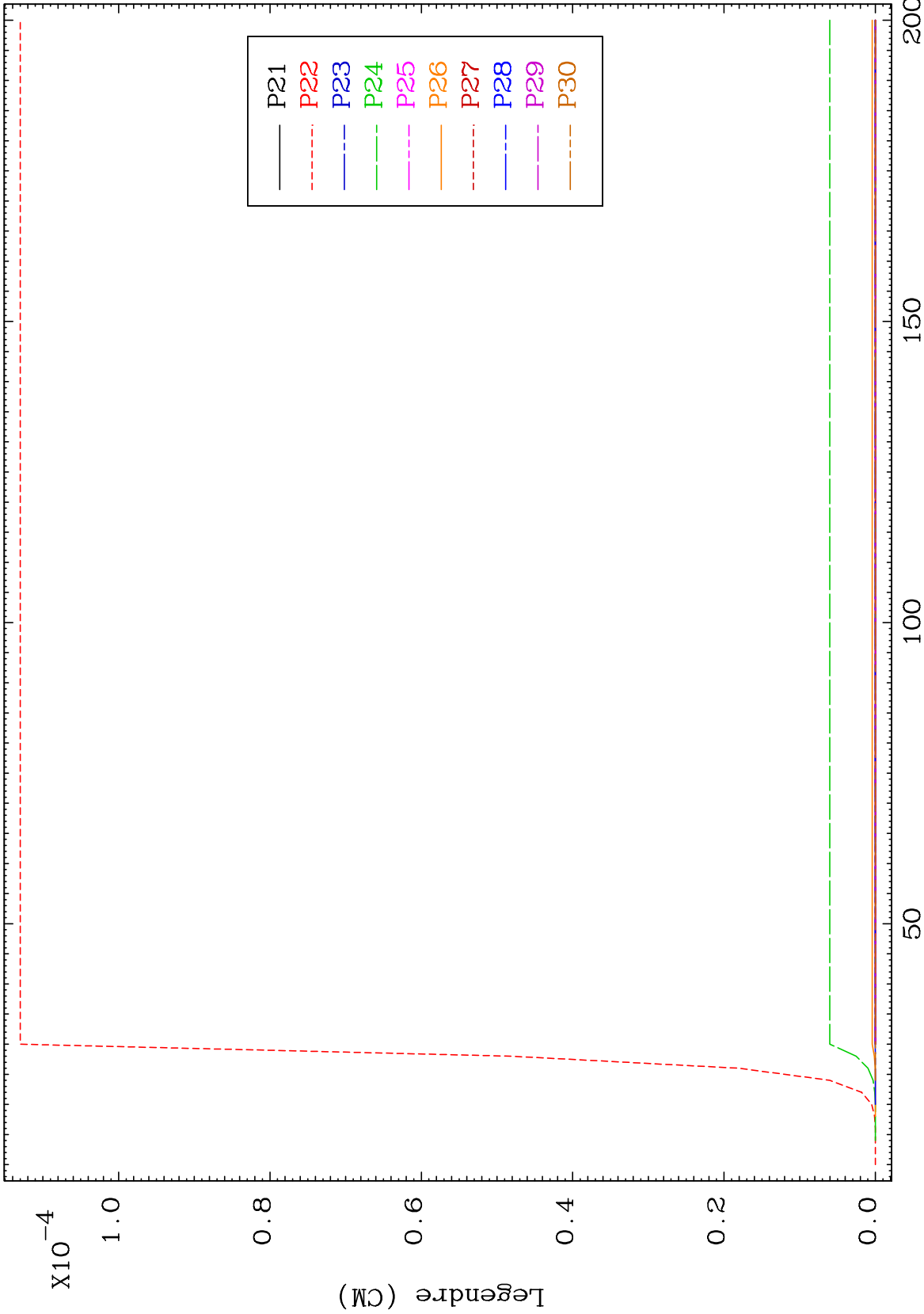
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70-Yb-172

MAT 7037

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

70-Yb-172



38

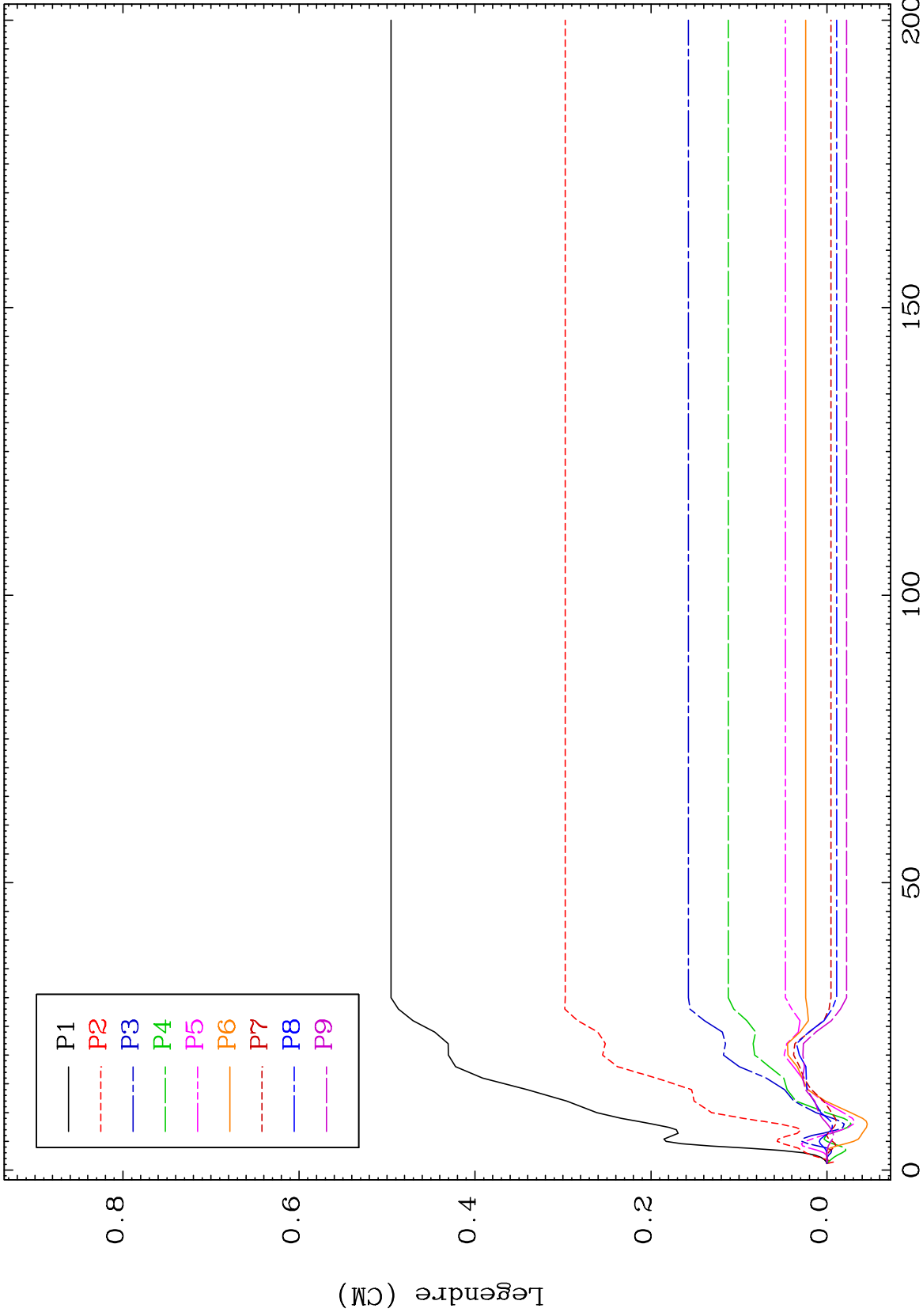
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



39

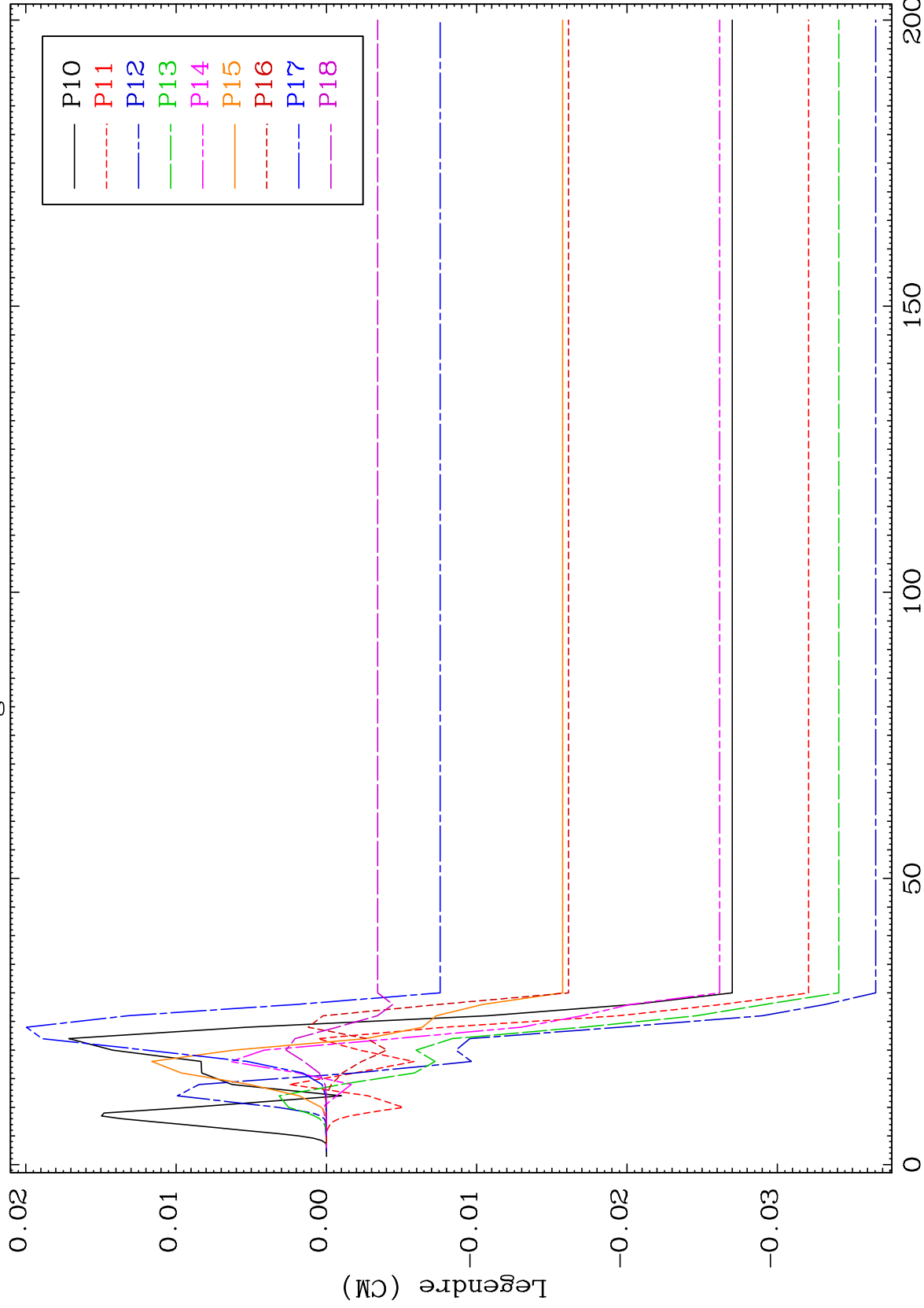
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



40

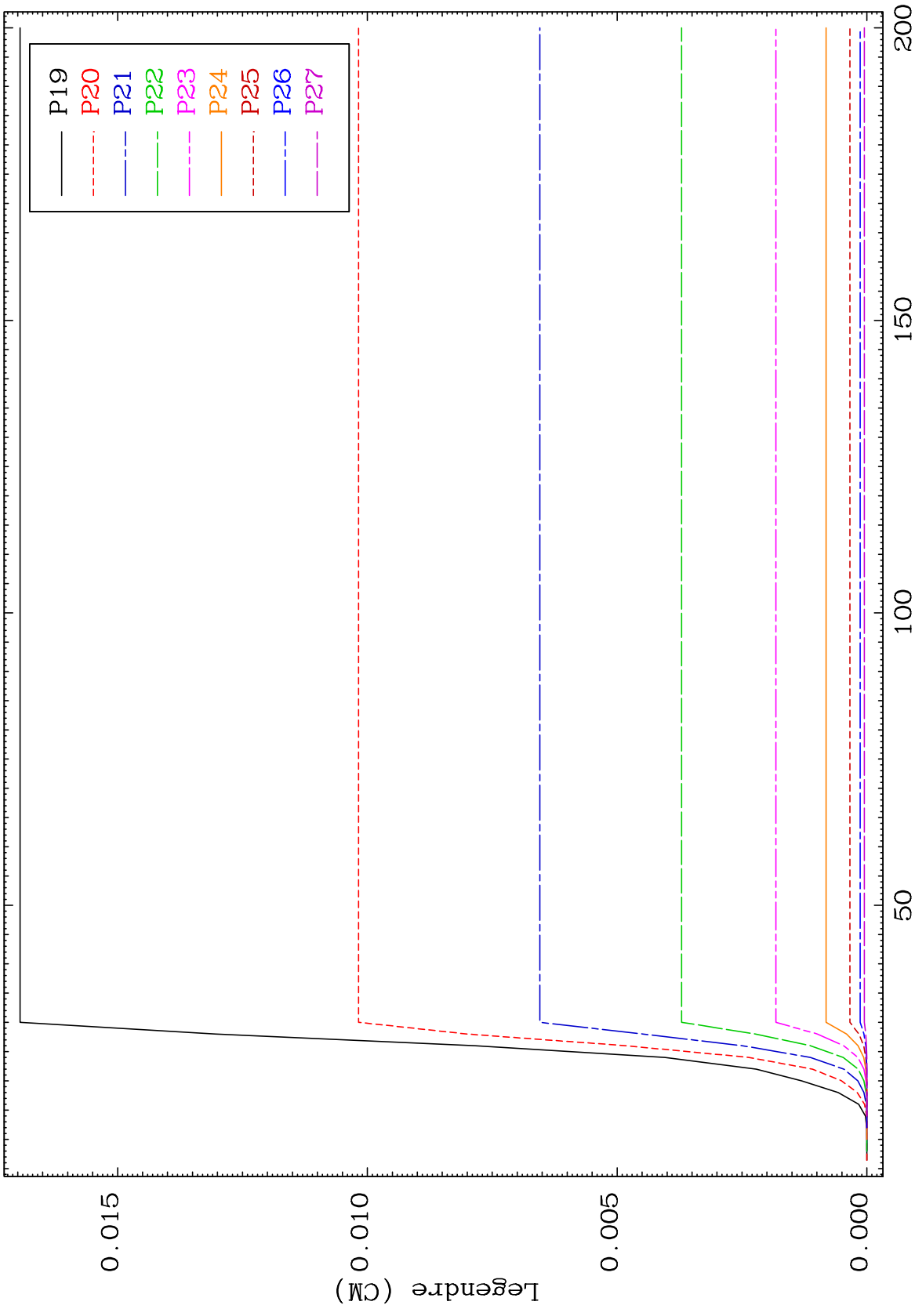
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



41

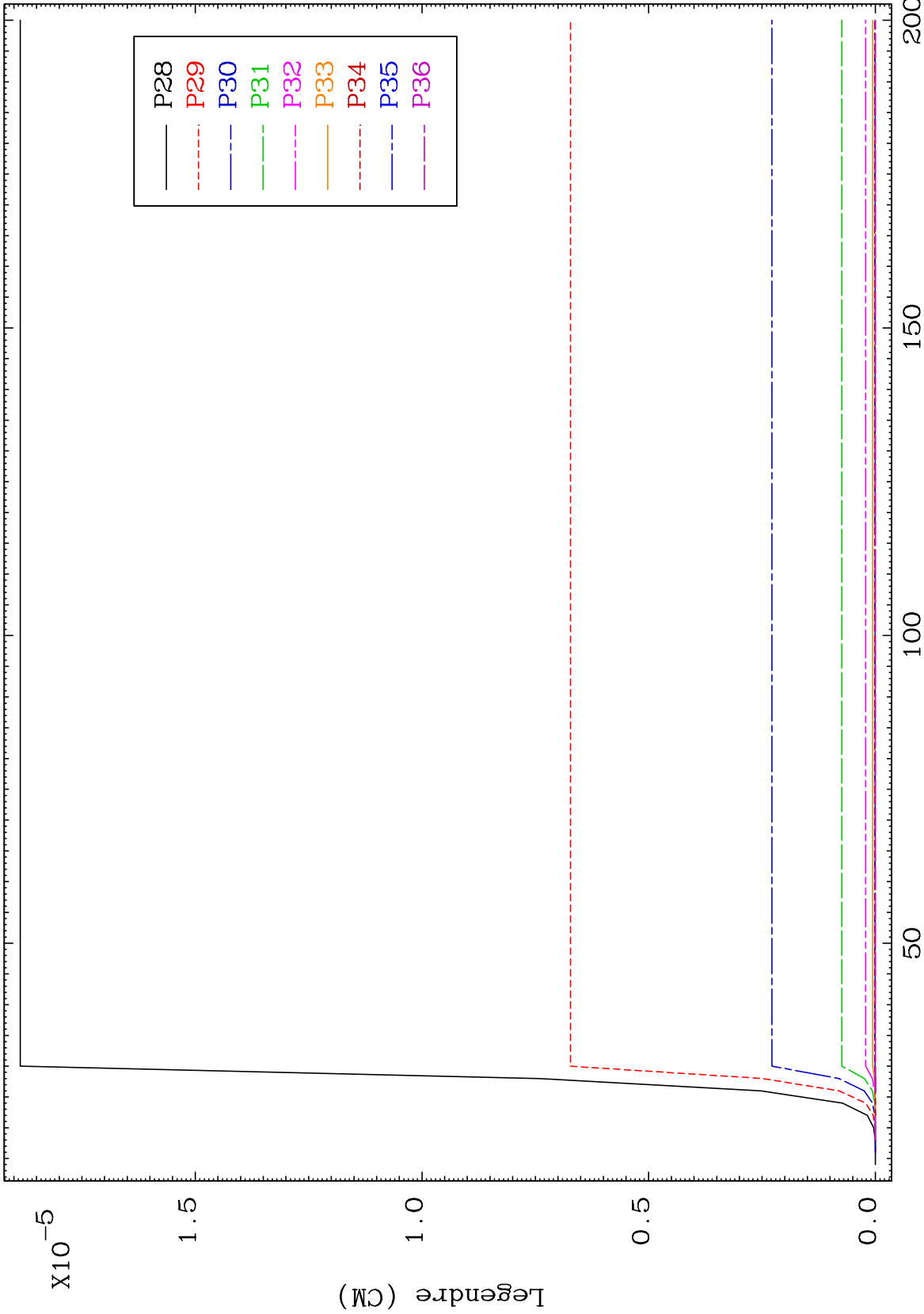
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



42

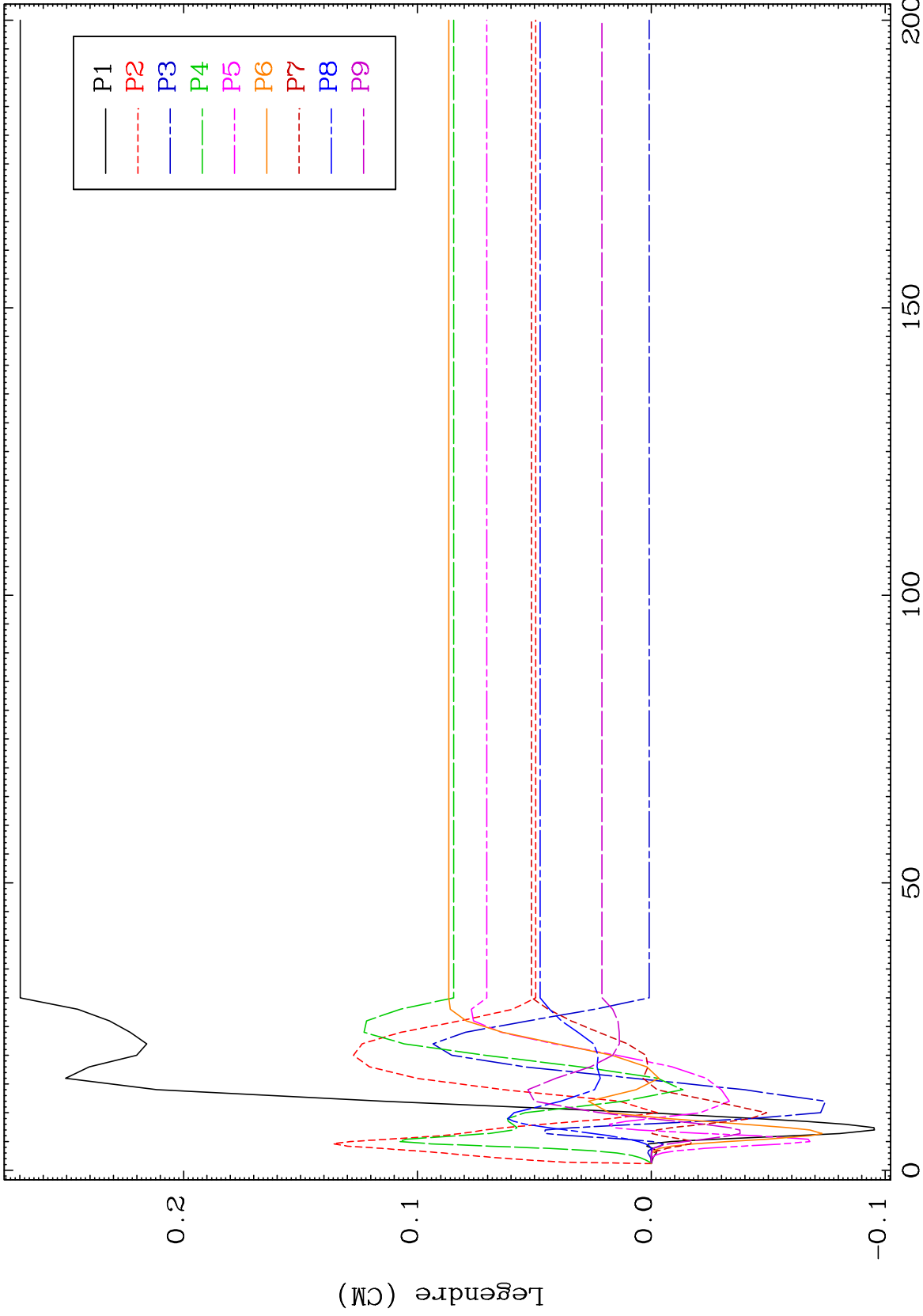
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



43

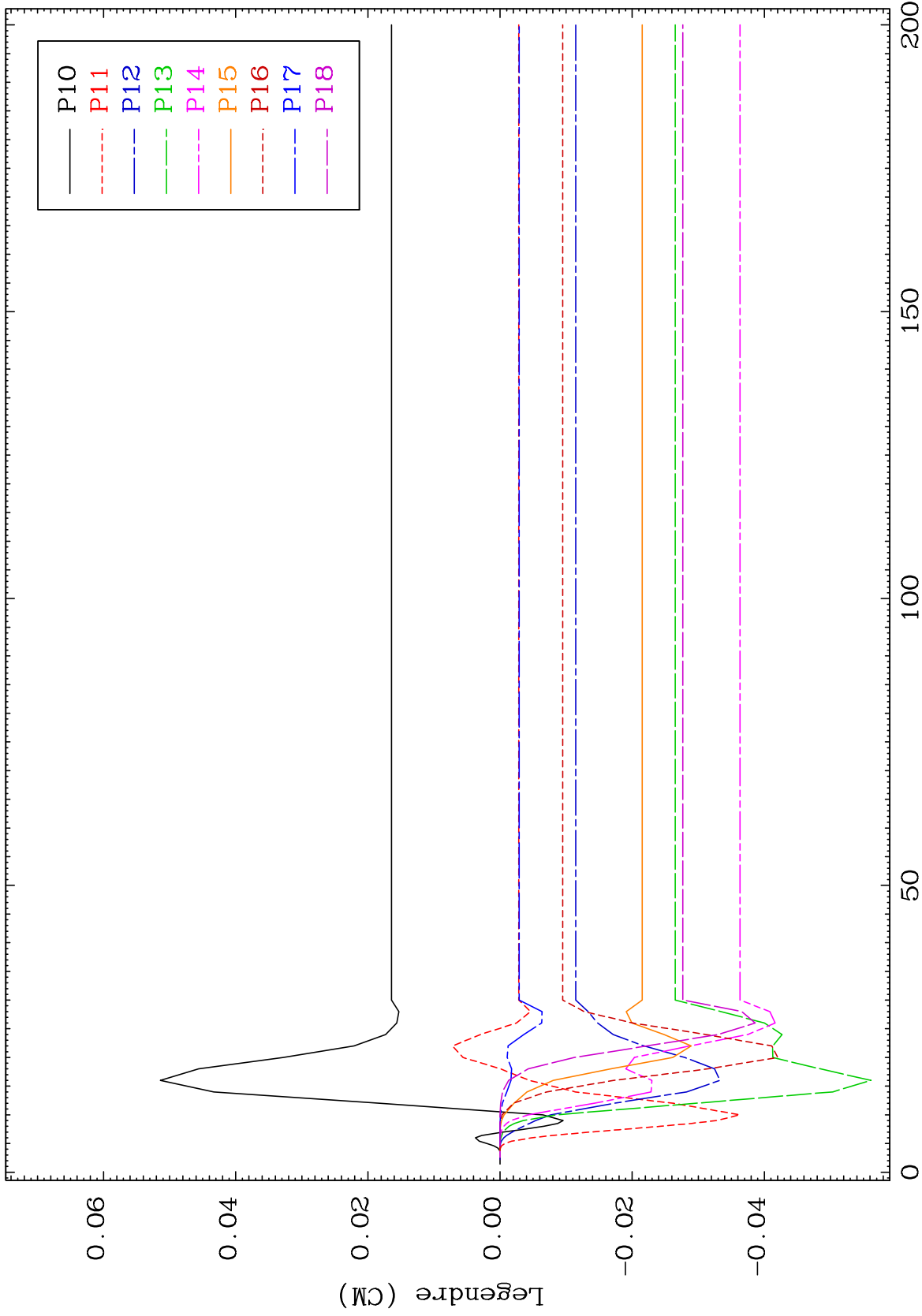
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



44

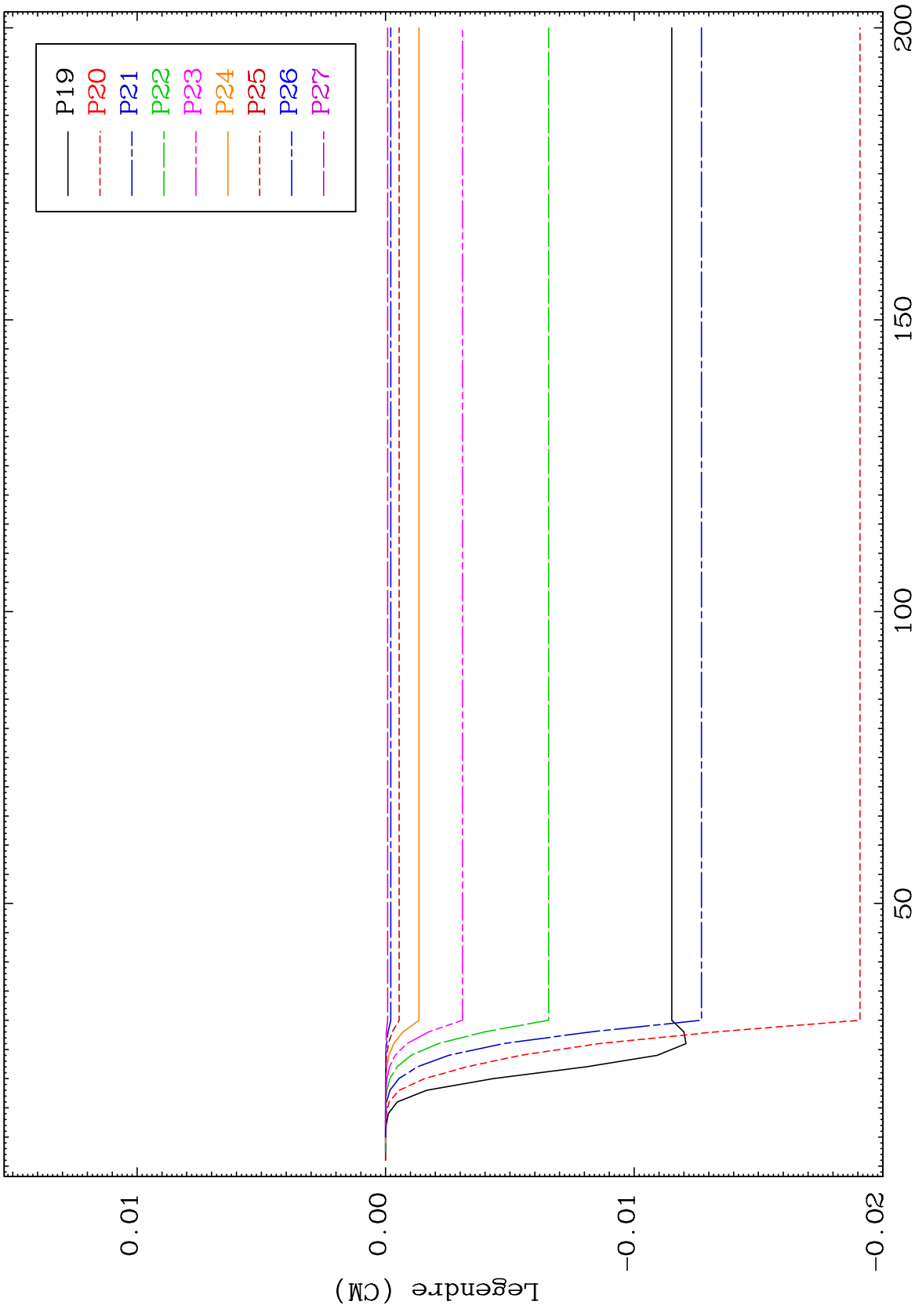
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



45

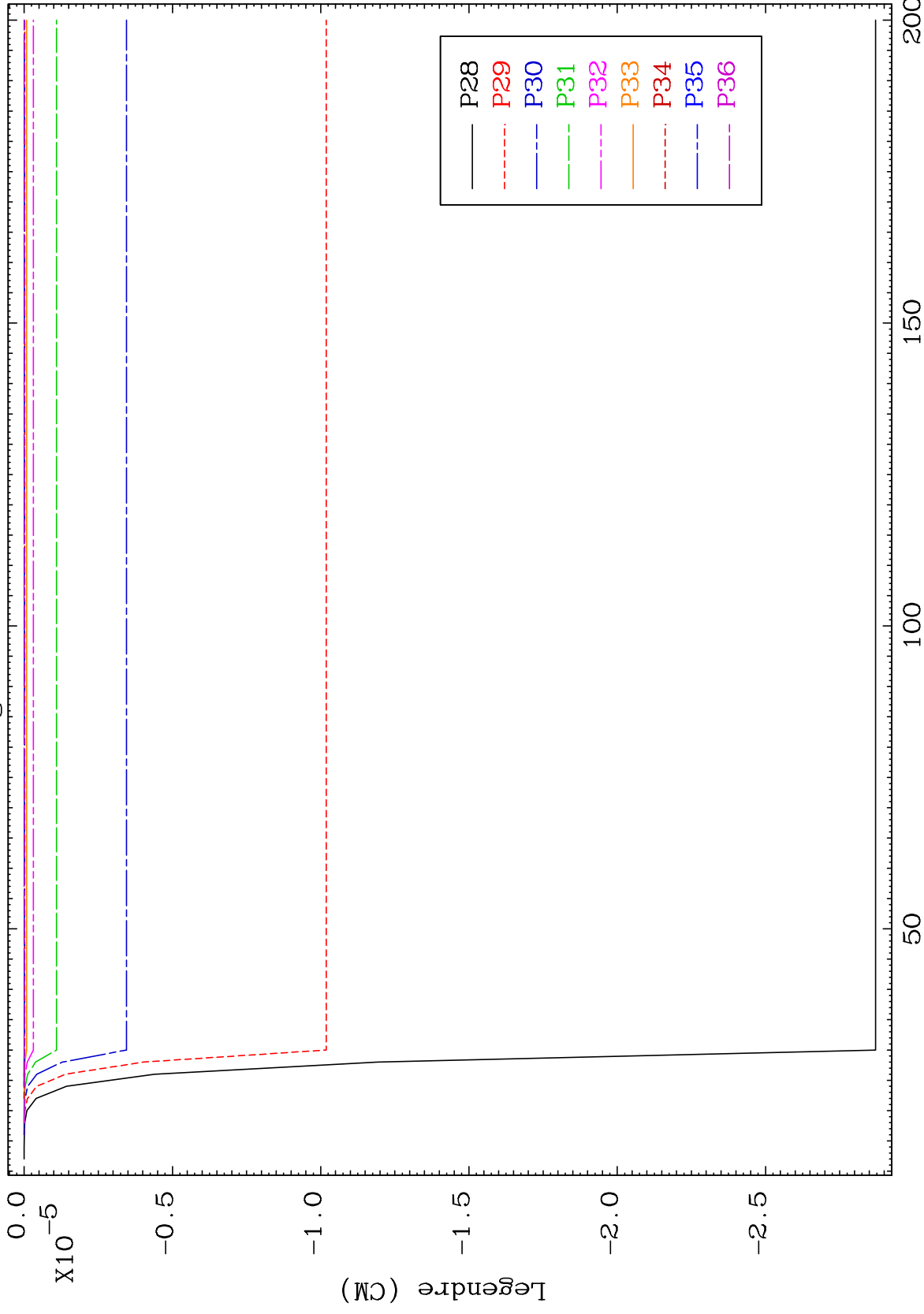
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



70-Yb-172

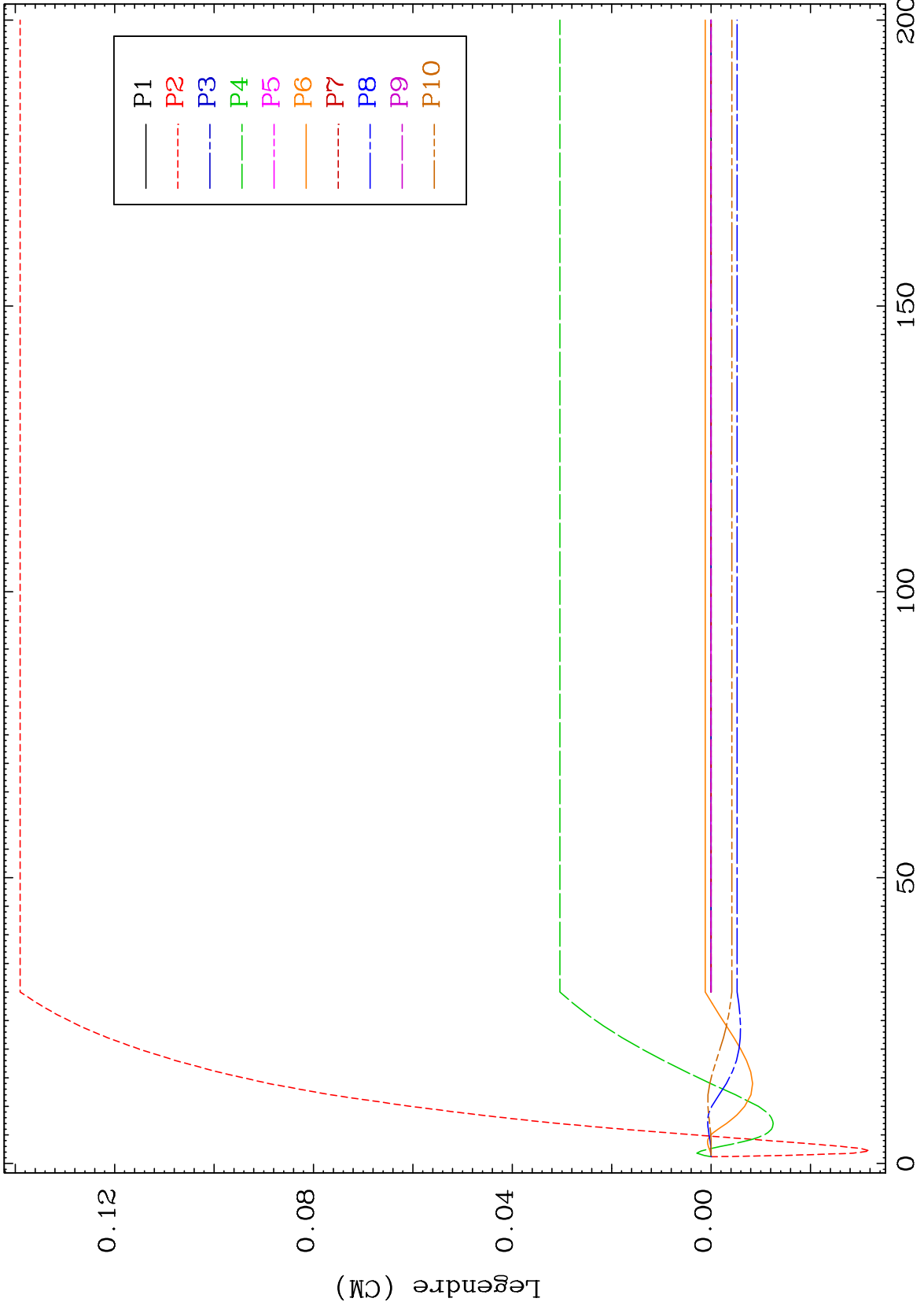
Incident Energy (MeV)

46

MAT 7037

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

70-Yb-172



47

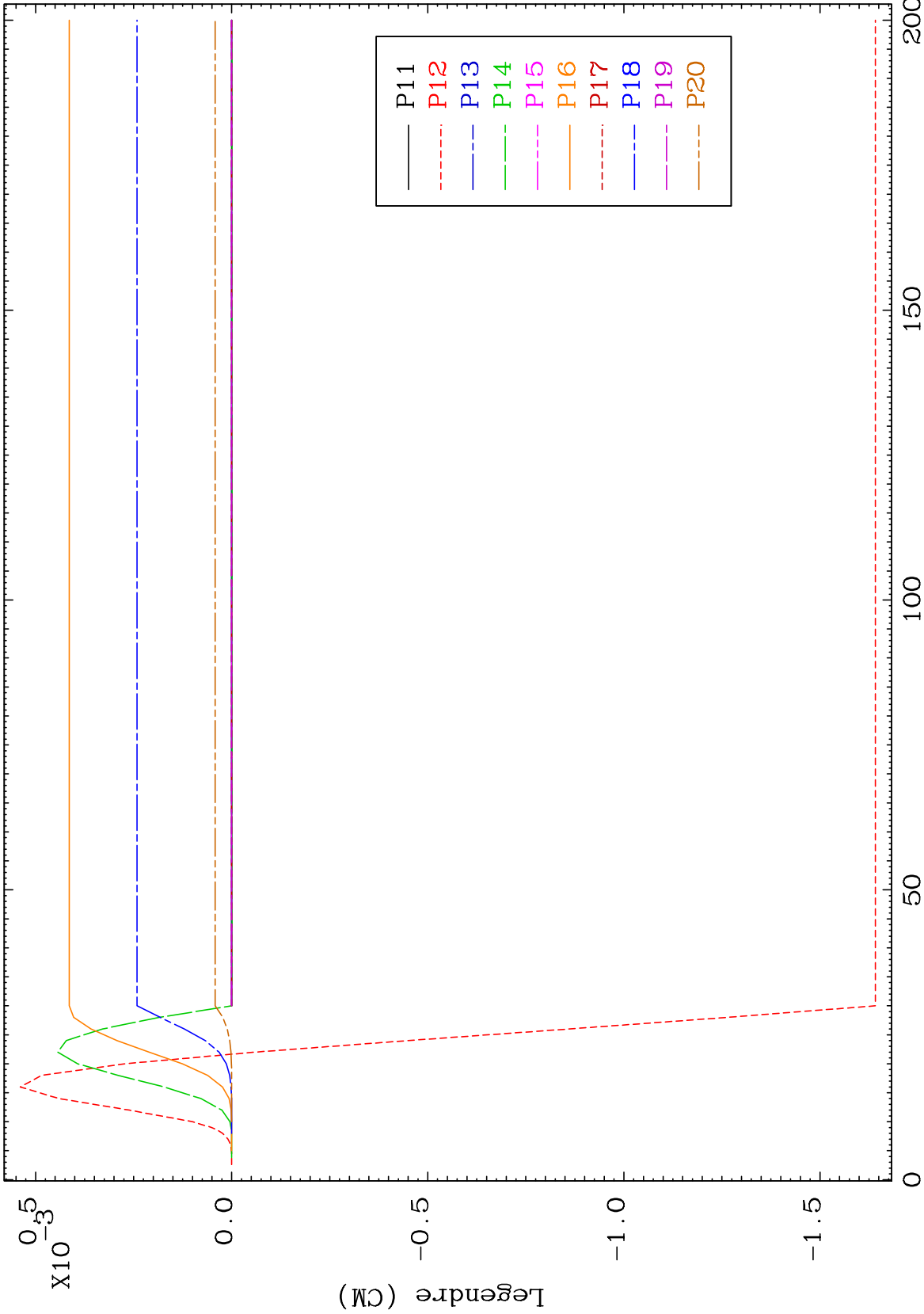
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



48

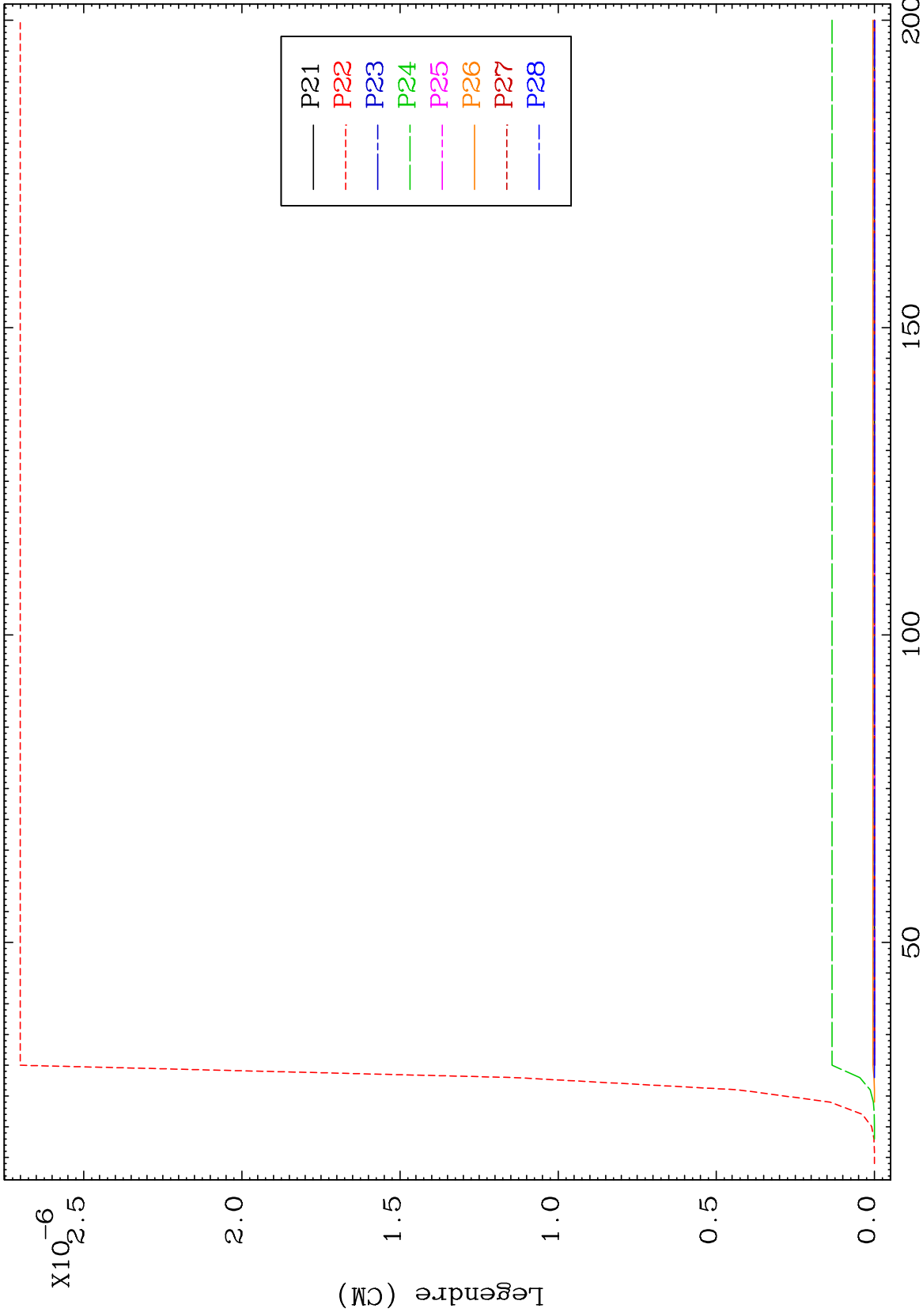
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



49

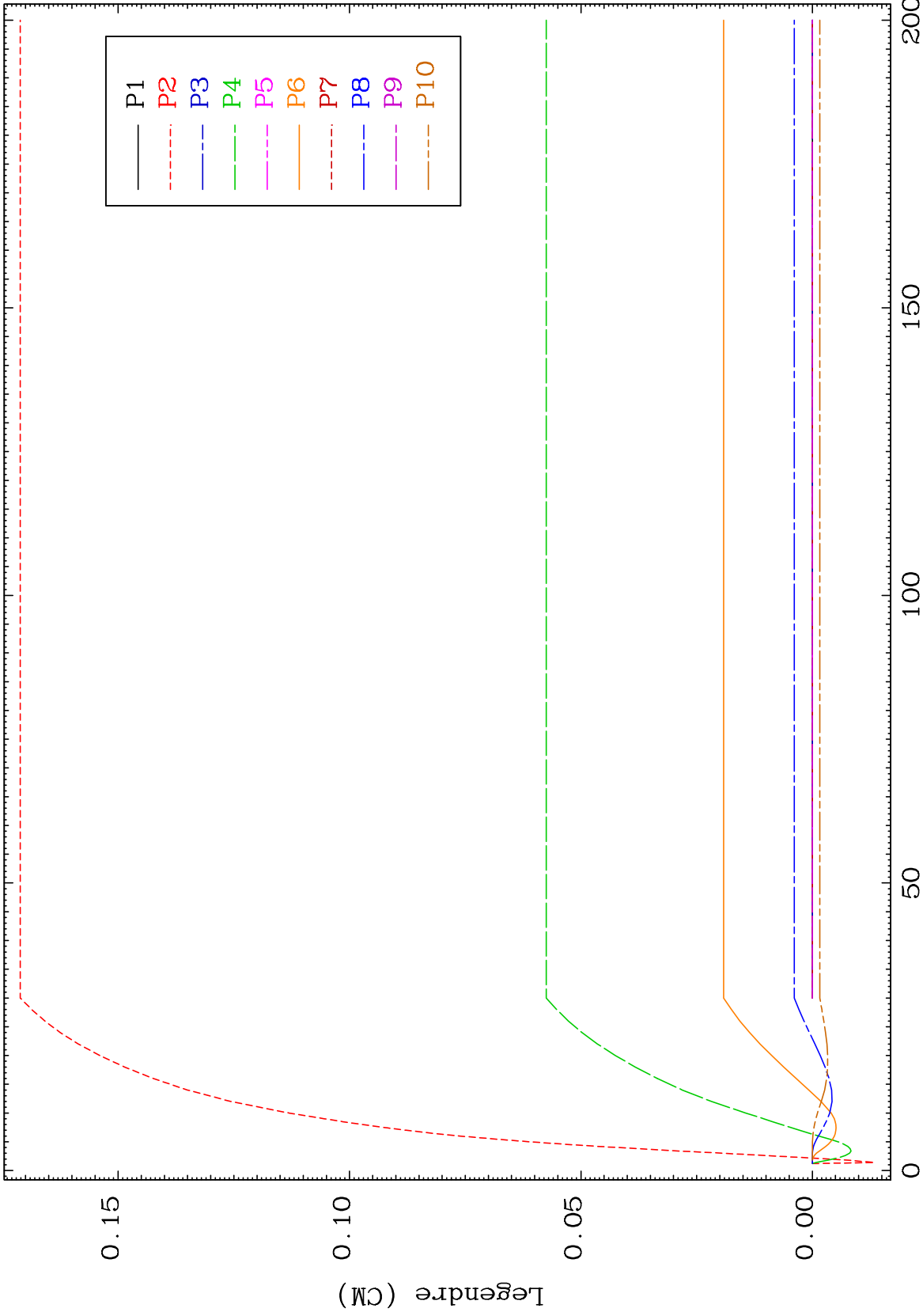
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



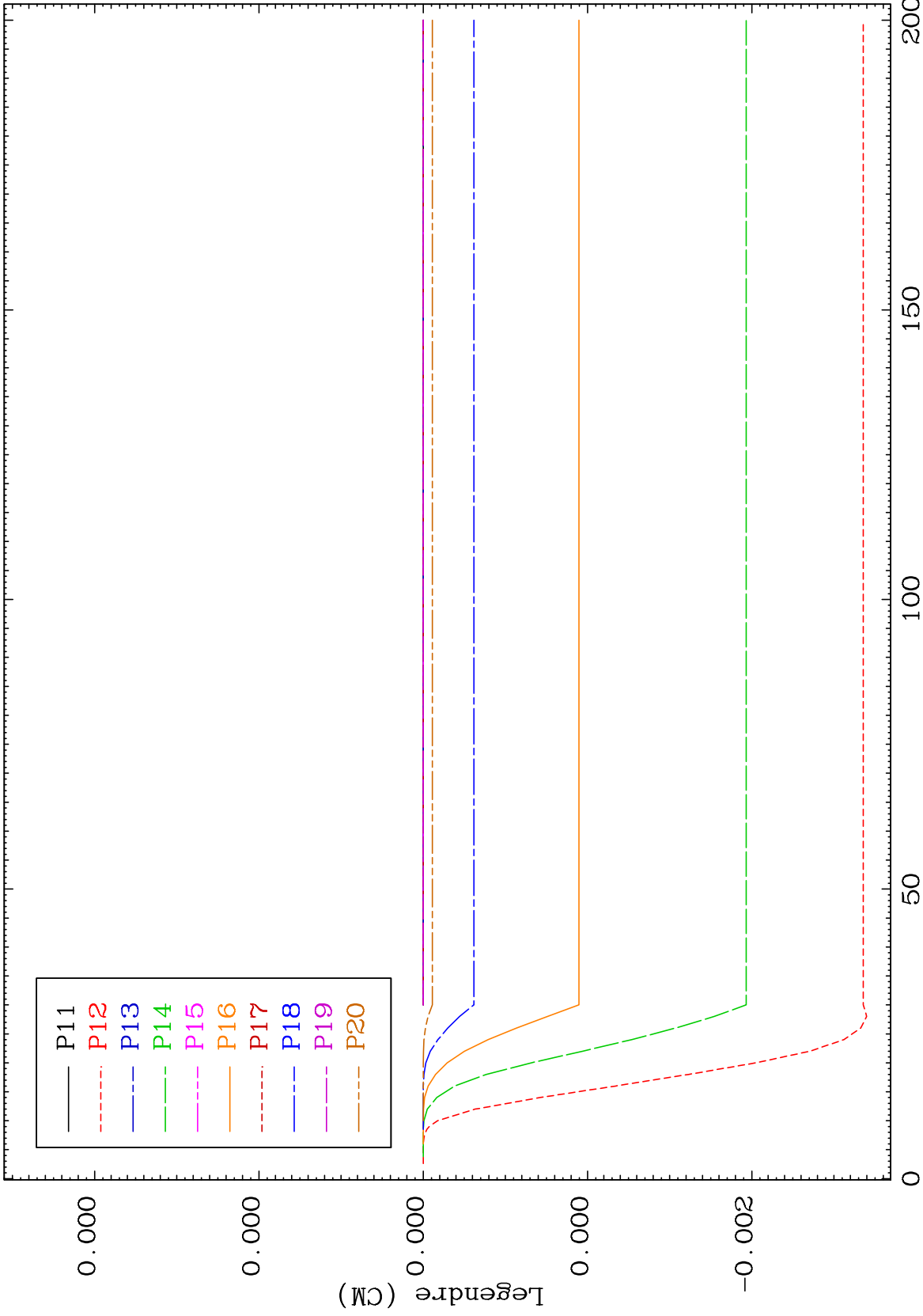
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



51

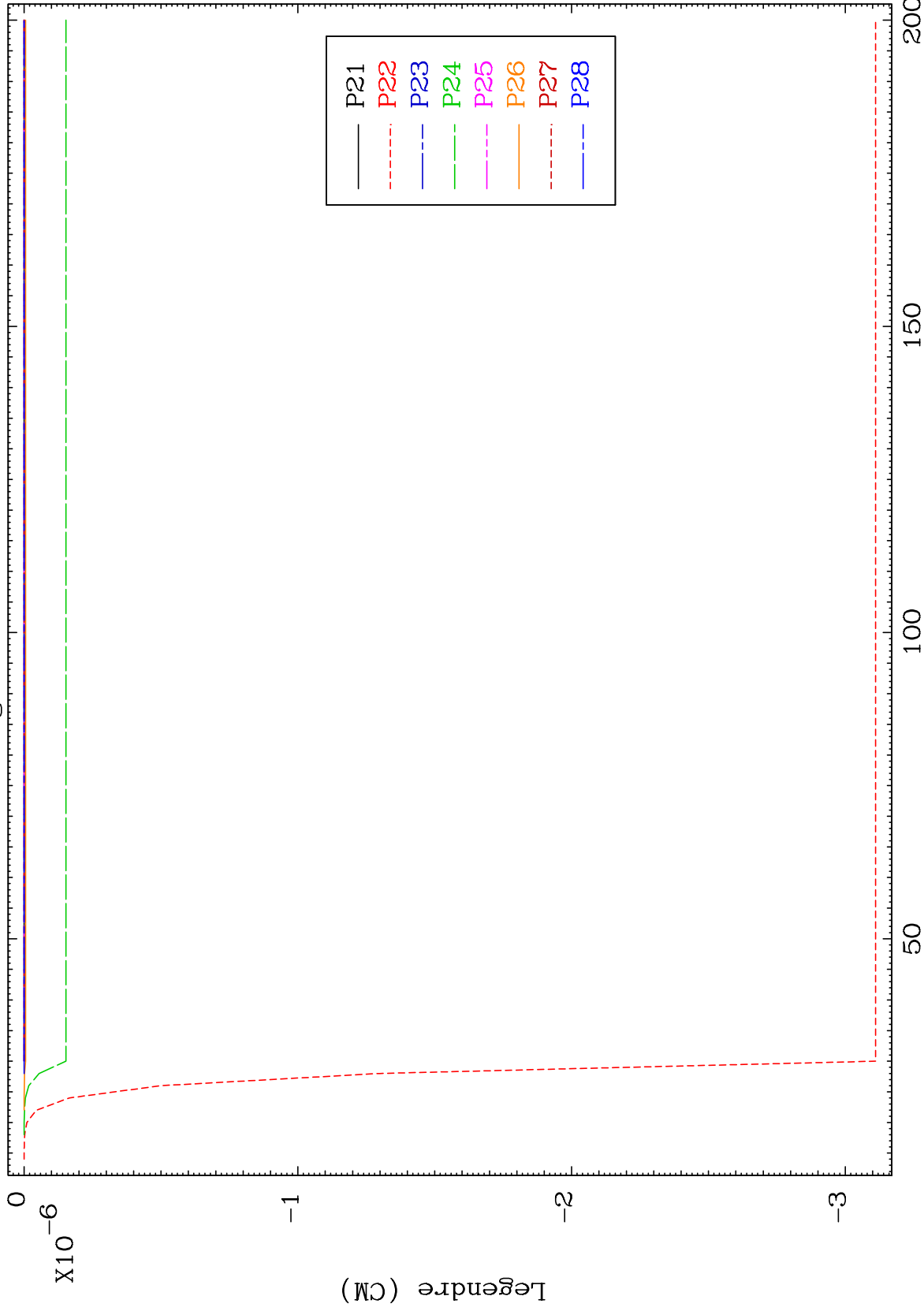
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



52

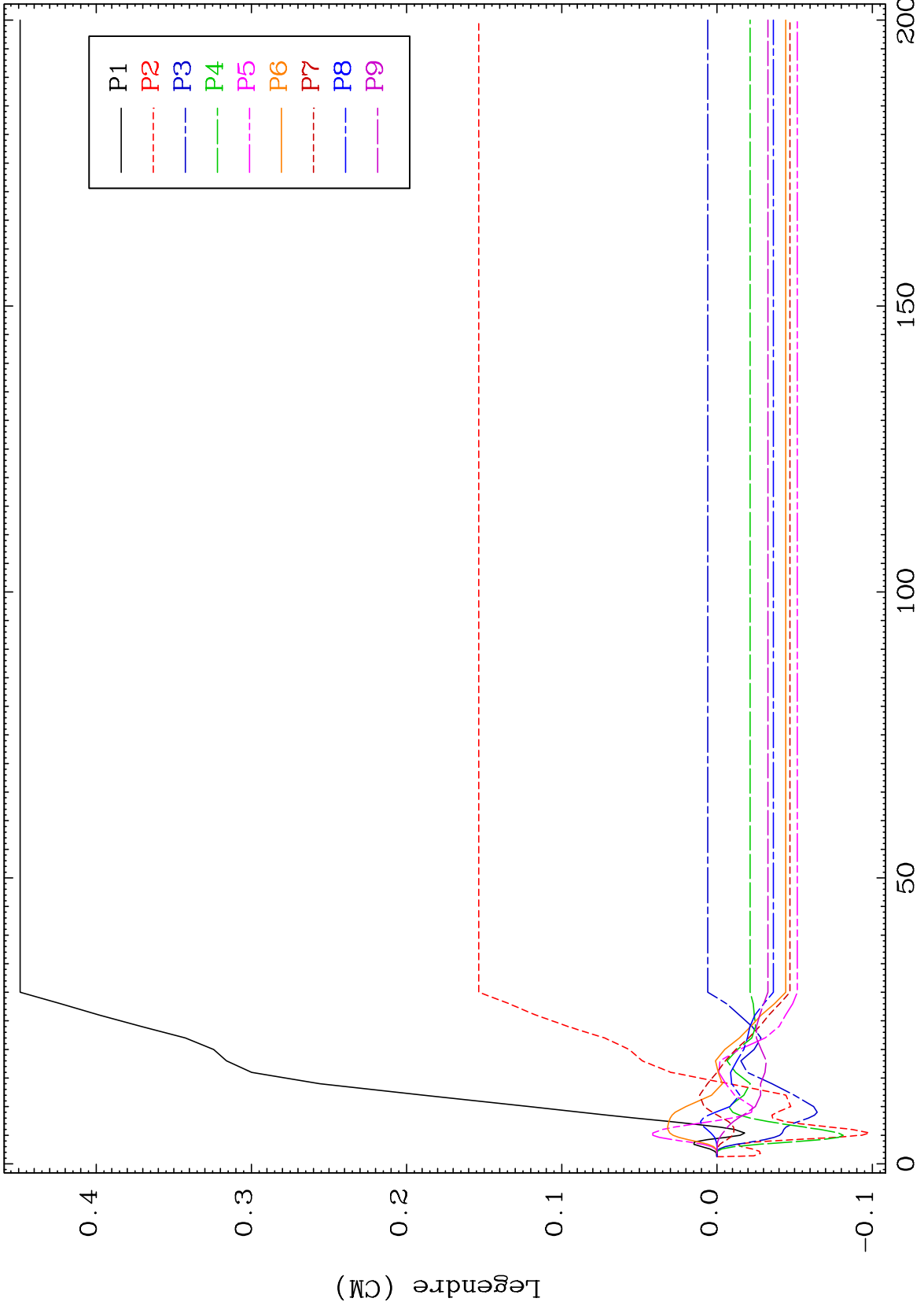
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



53

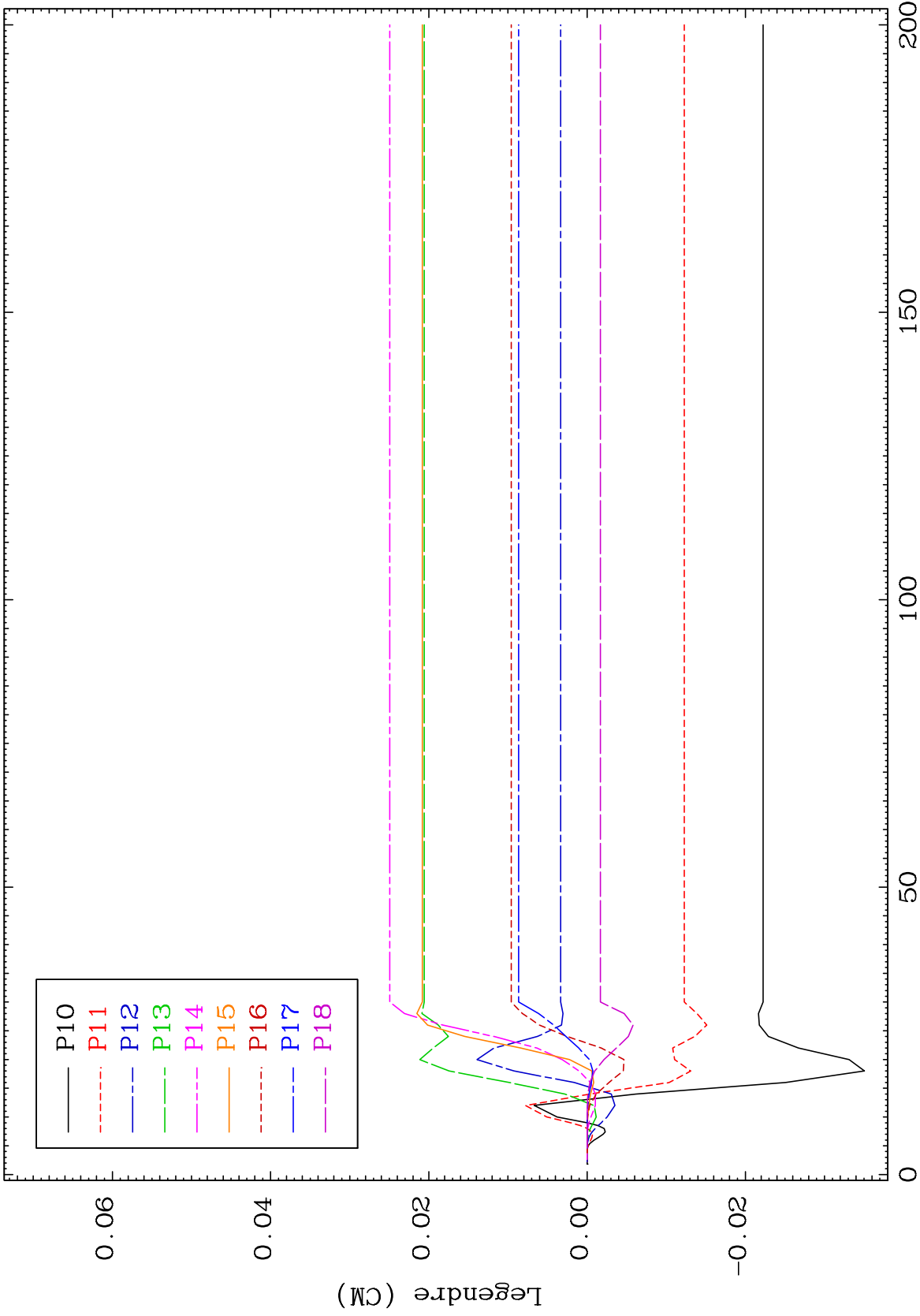
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



54

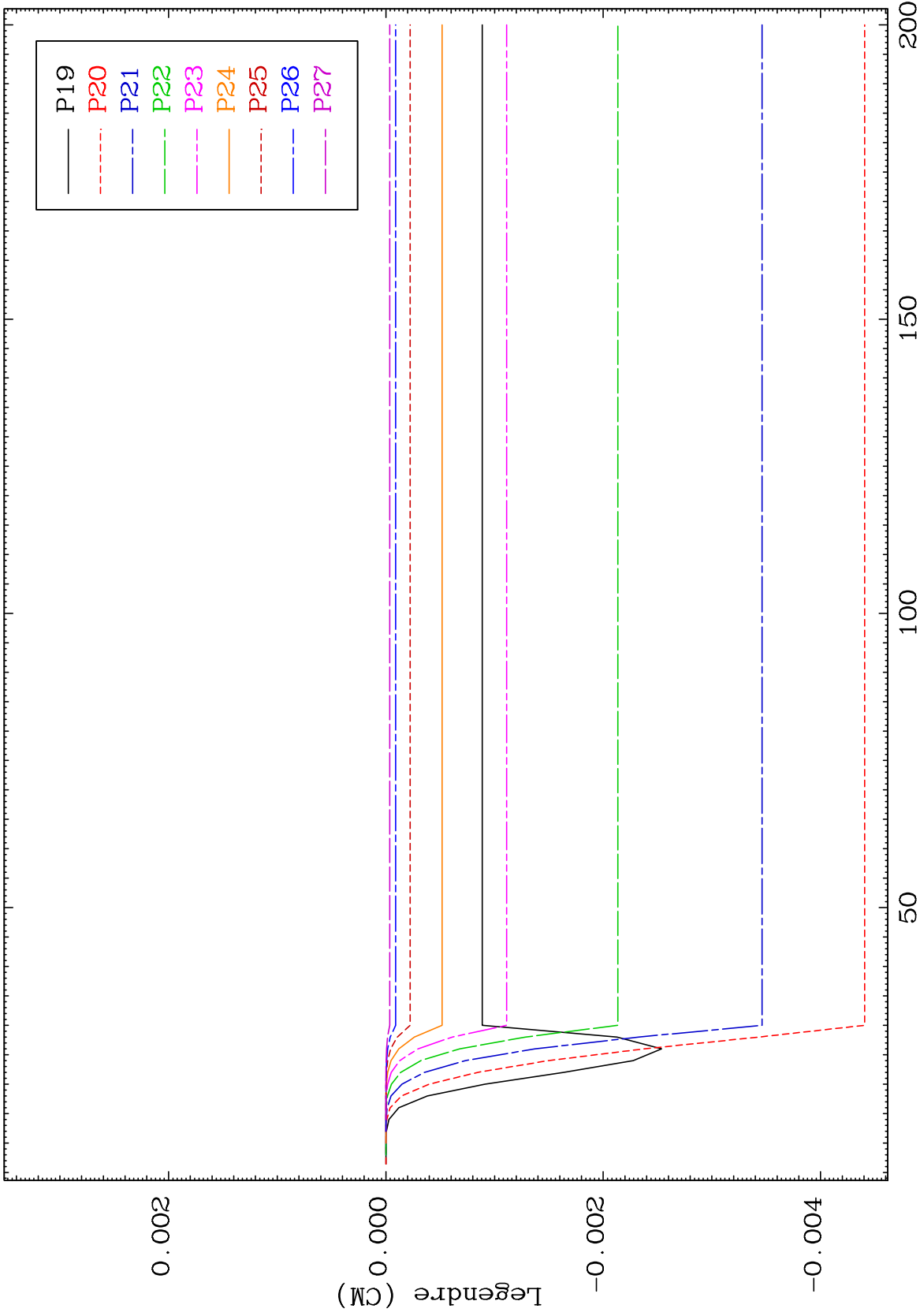
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



55

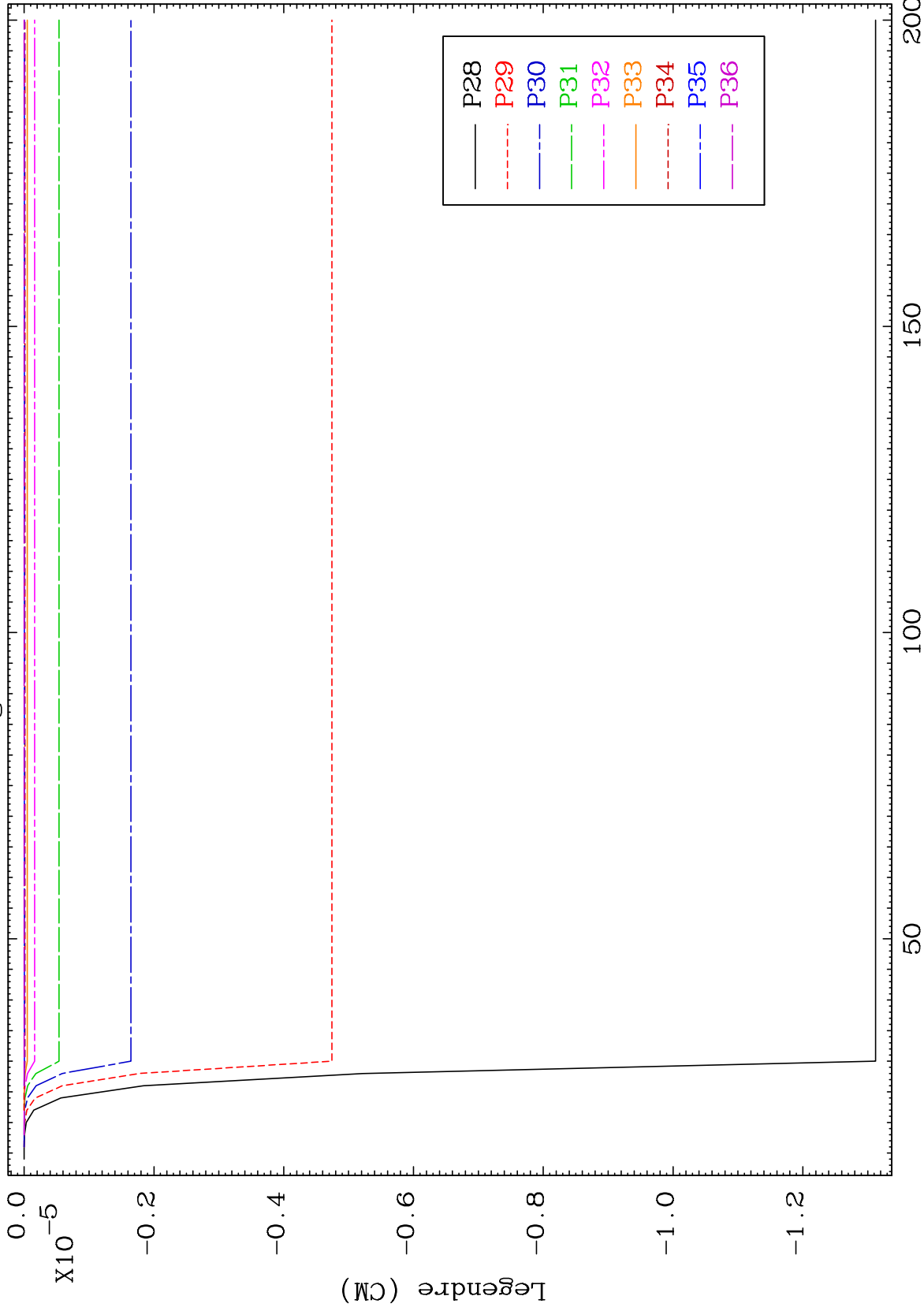
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



70-Yb-172

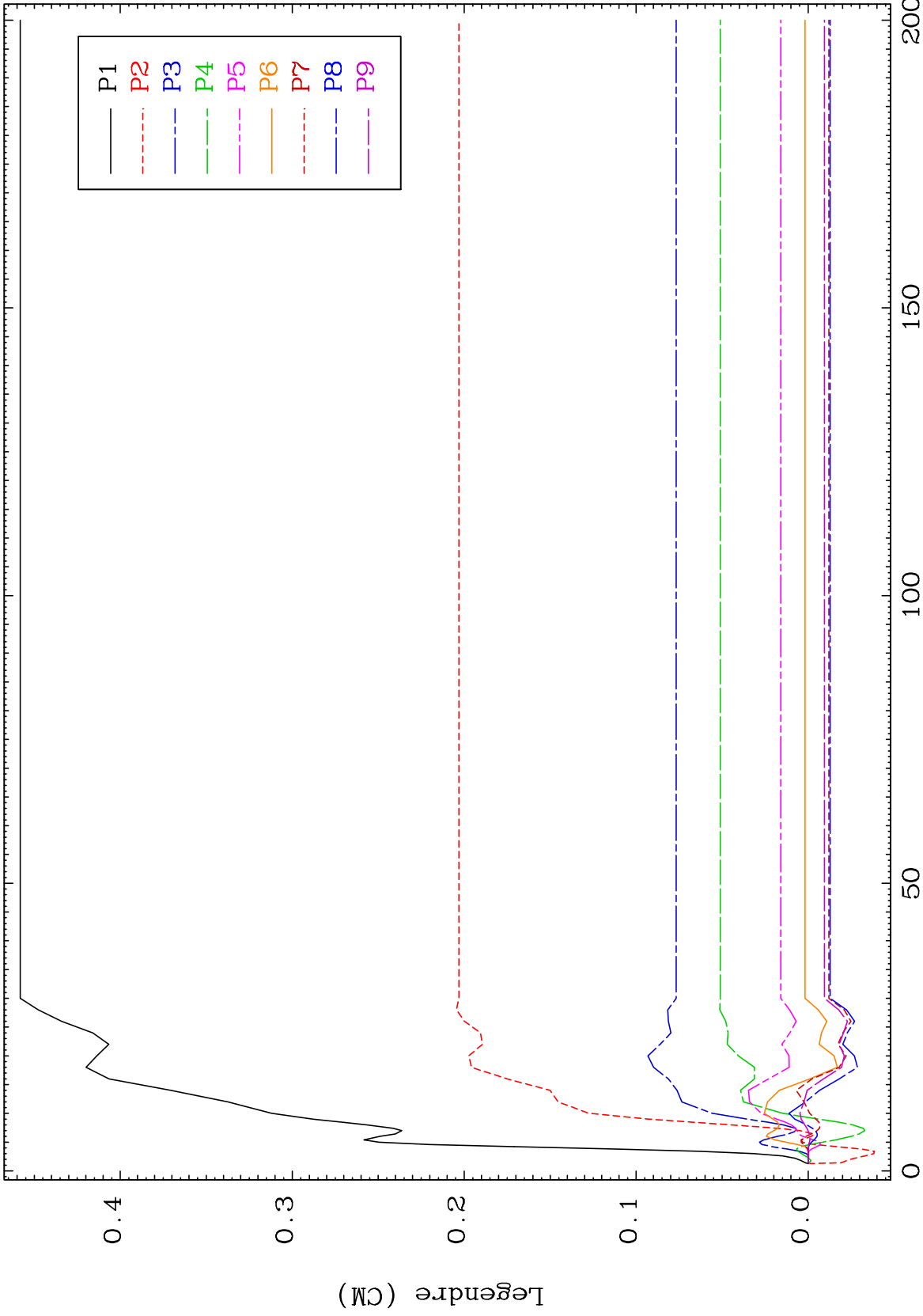
Incident Energy (MeV)

56

MAT 7037

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

70-Yb-172



57

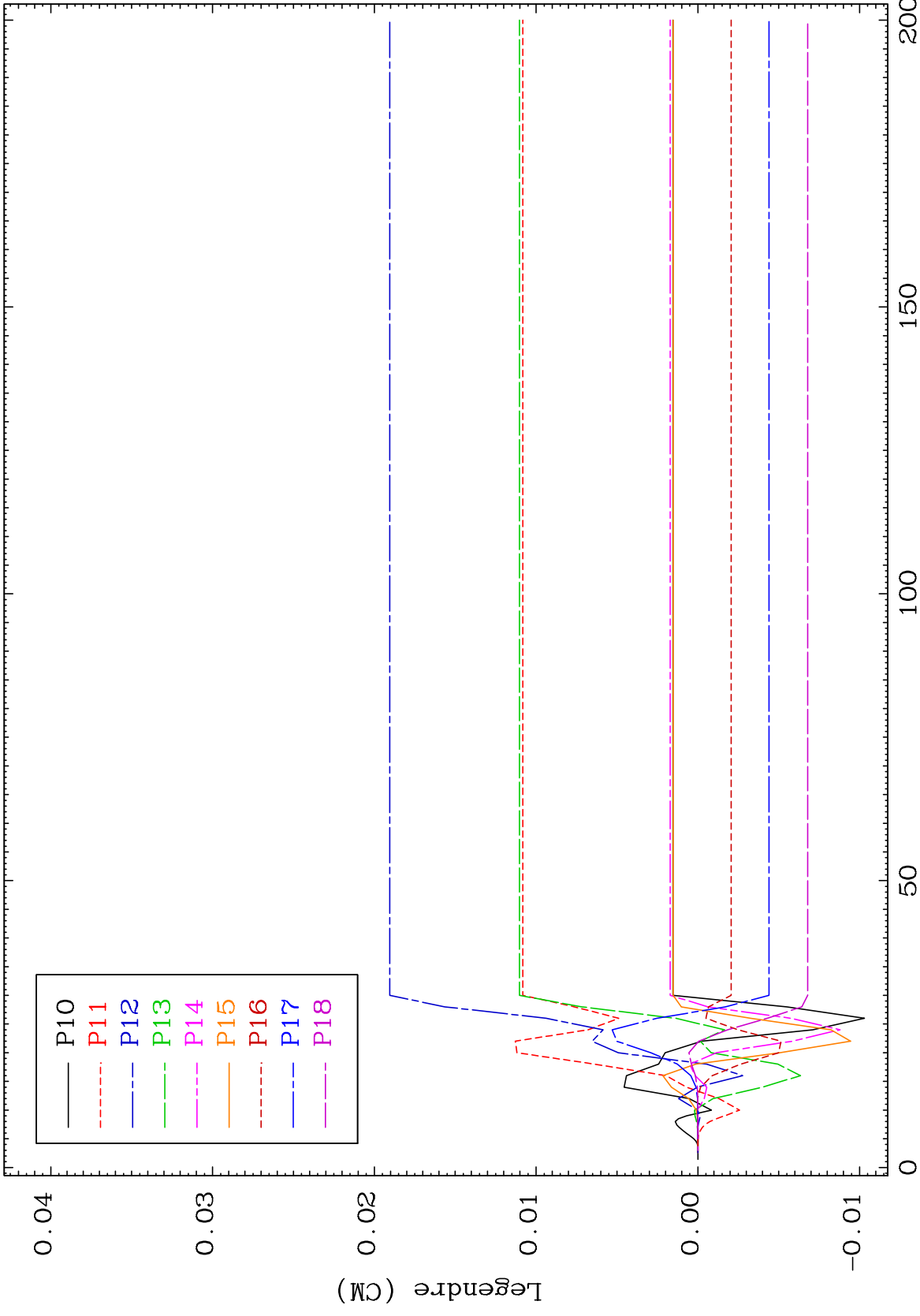
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



58

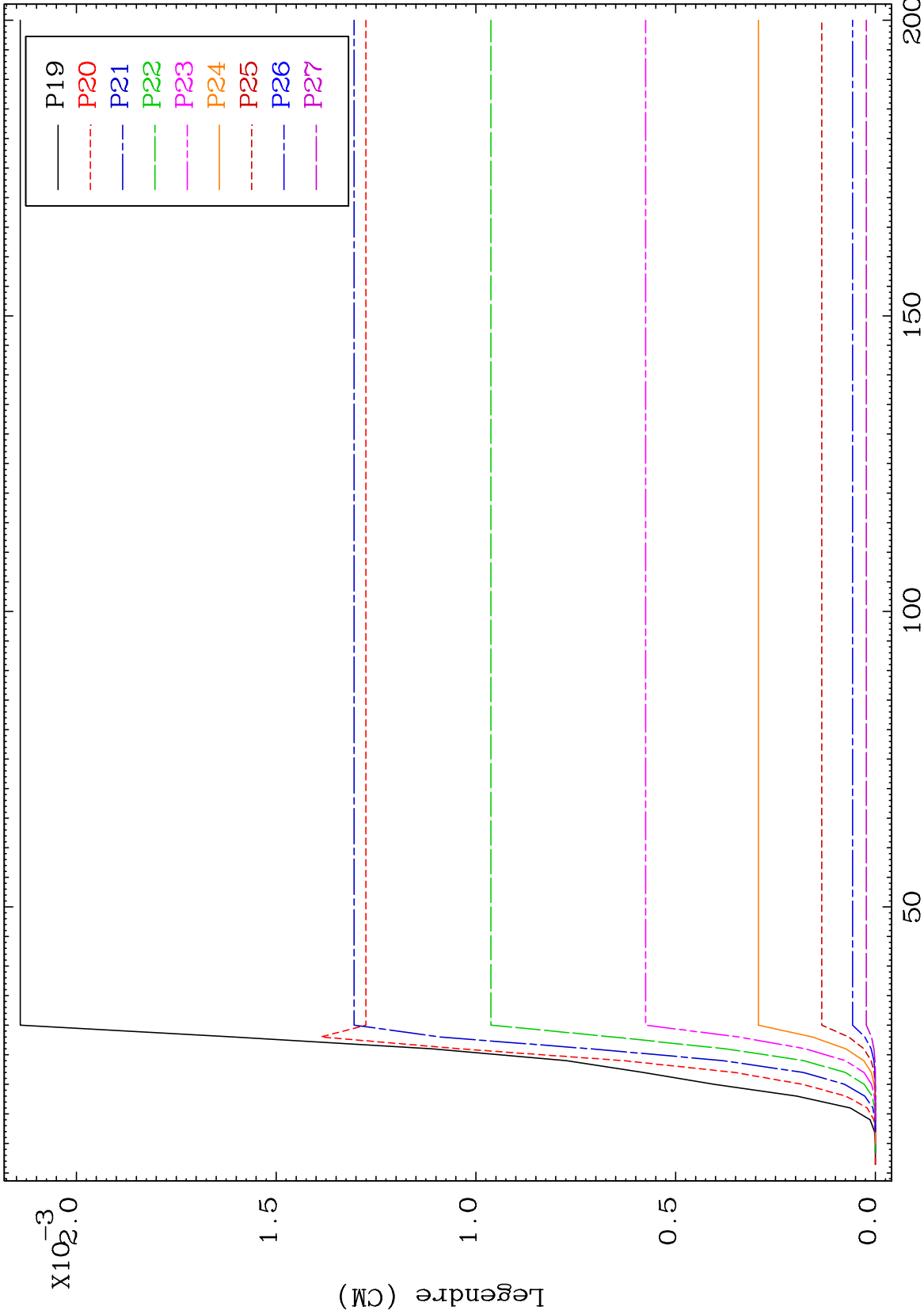
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



59

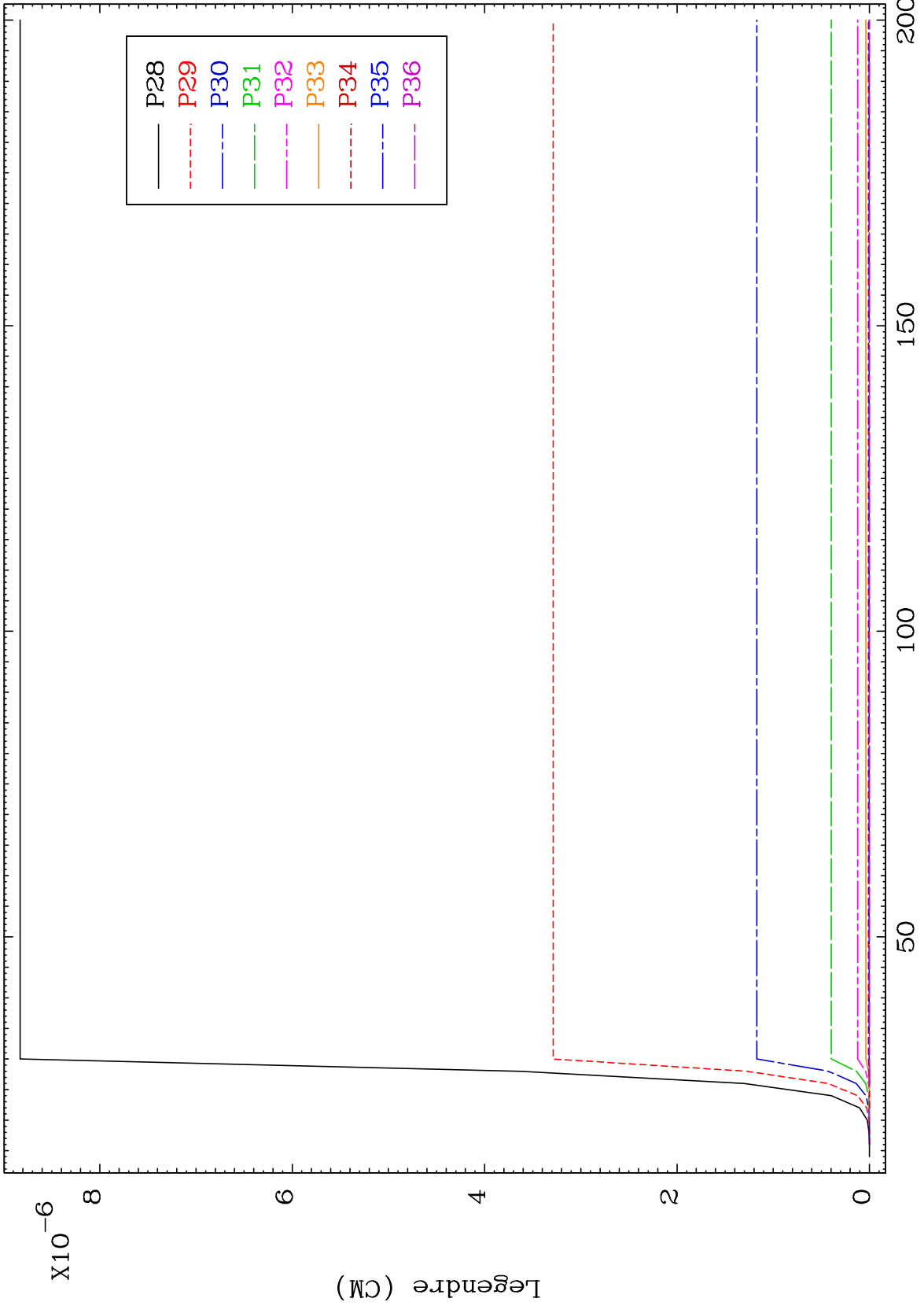
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



60

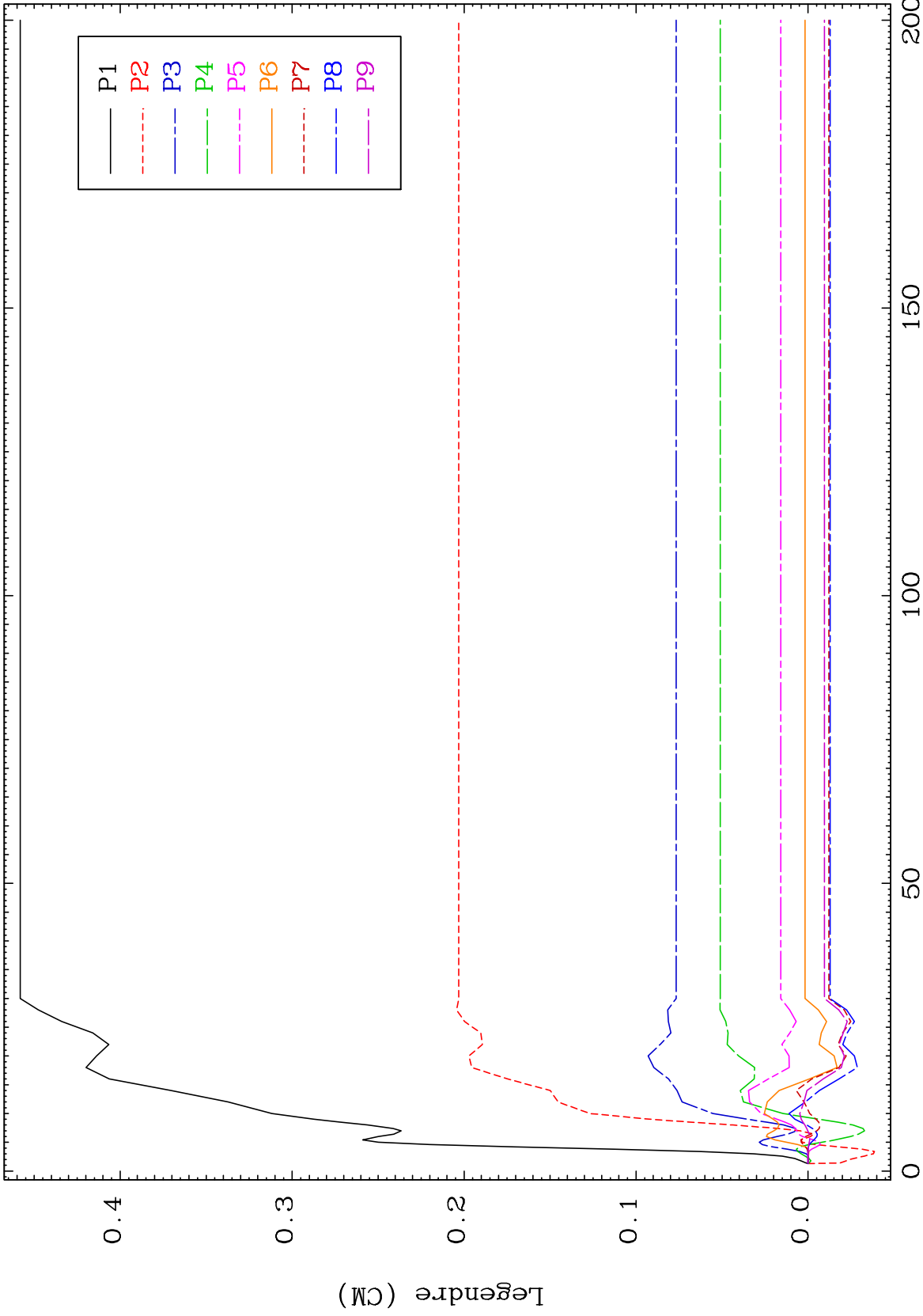
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



61

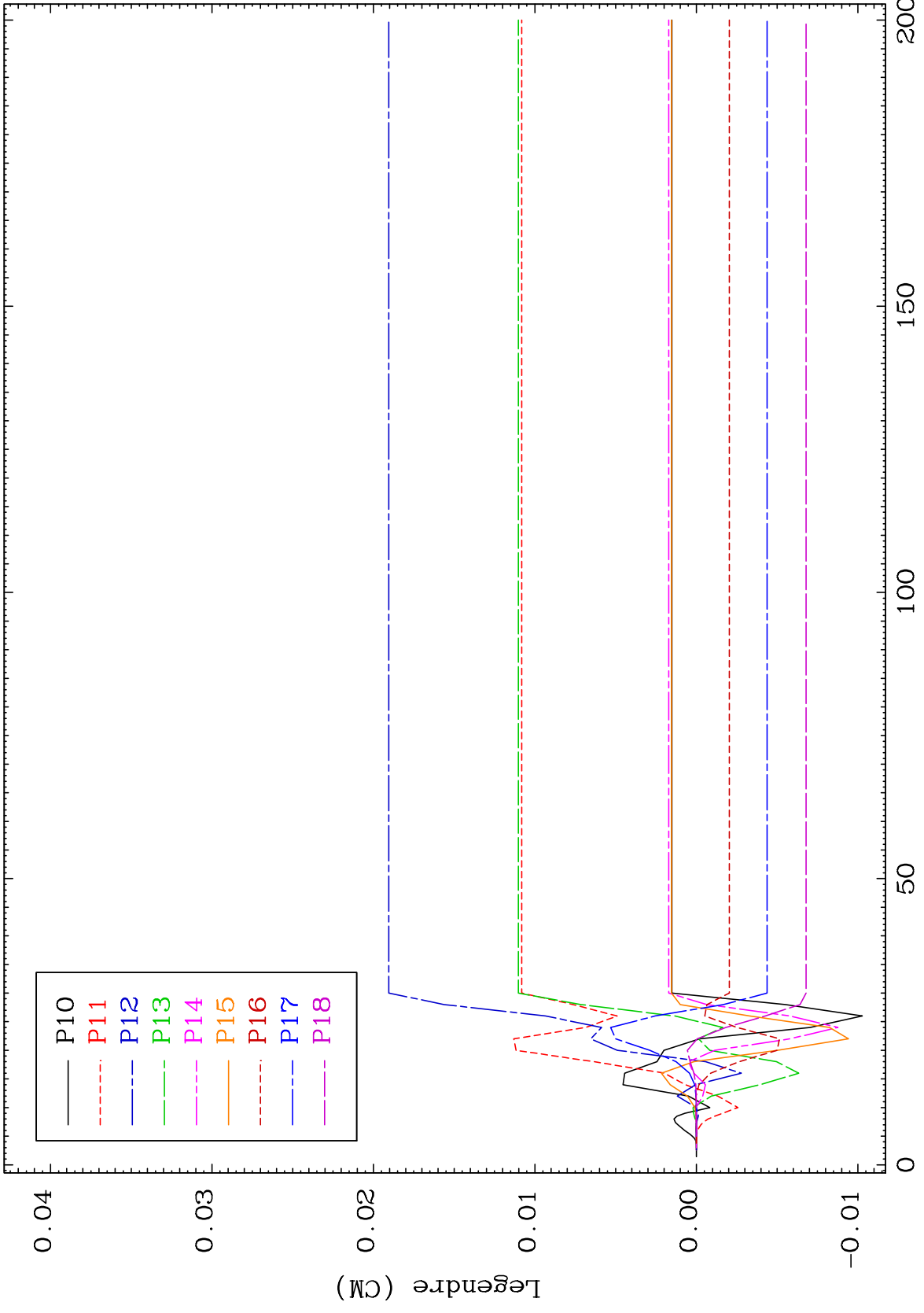
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172

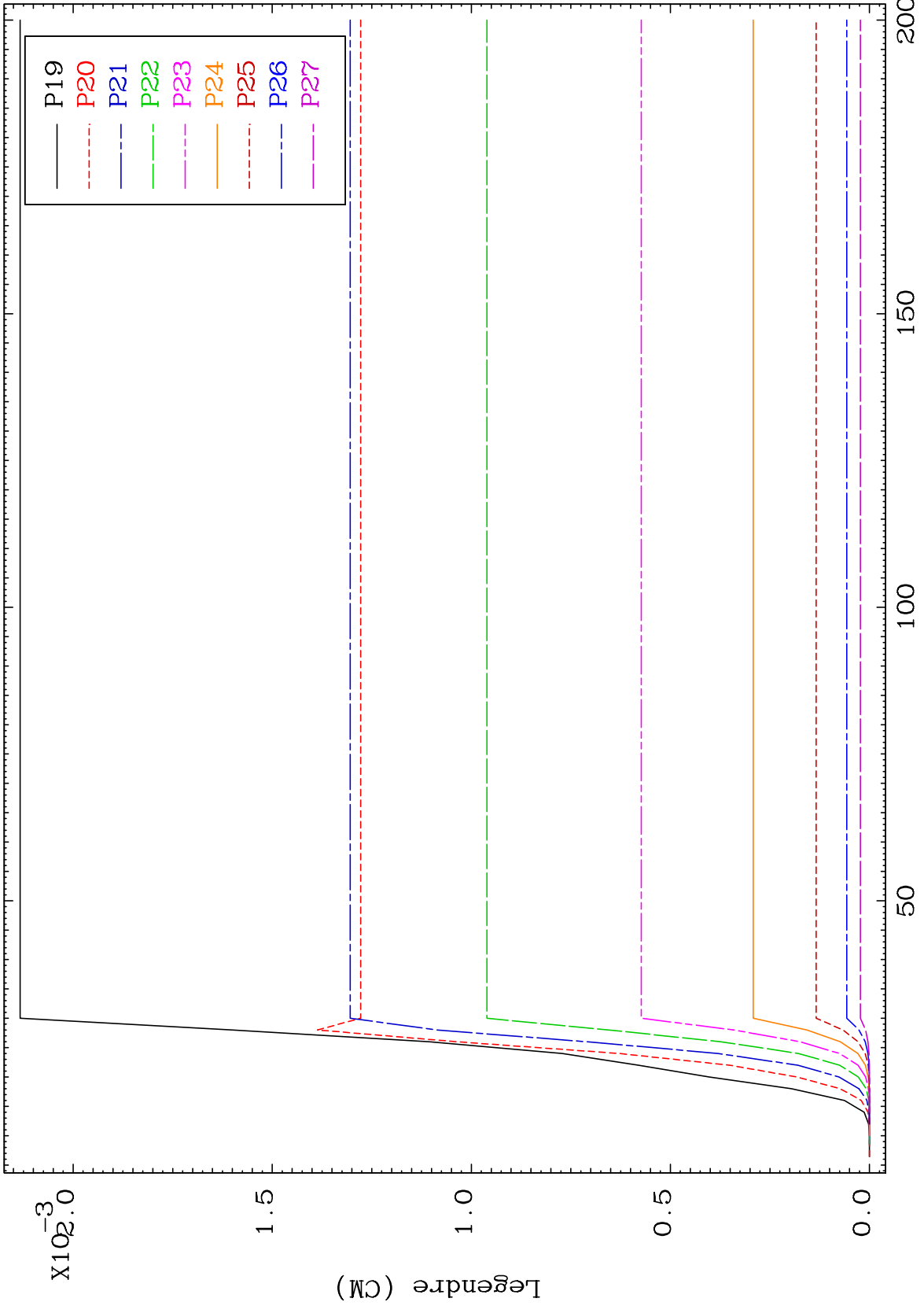


62

Incident Energy (MeV)

70-Yb-172

MAT 7037 MT= 62 (n,n') Level Legendre Coefficients 70-Yb-172

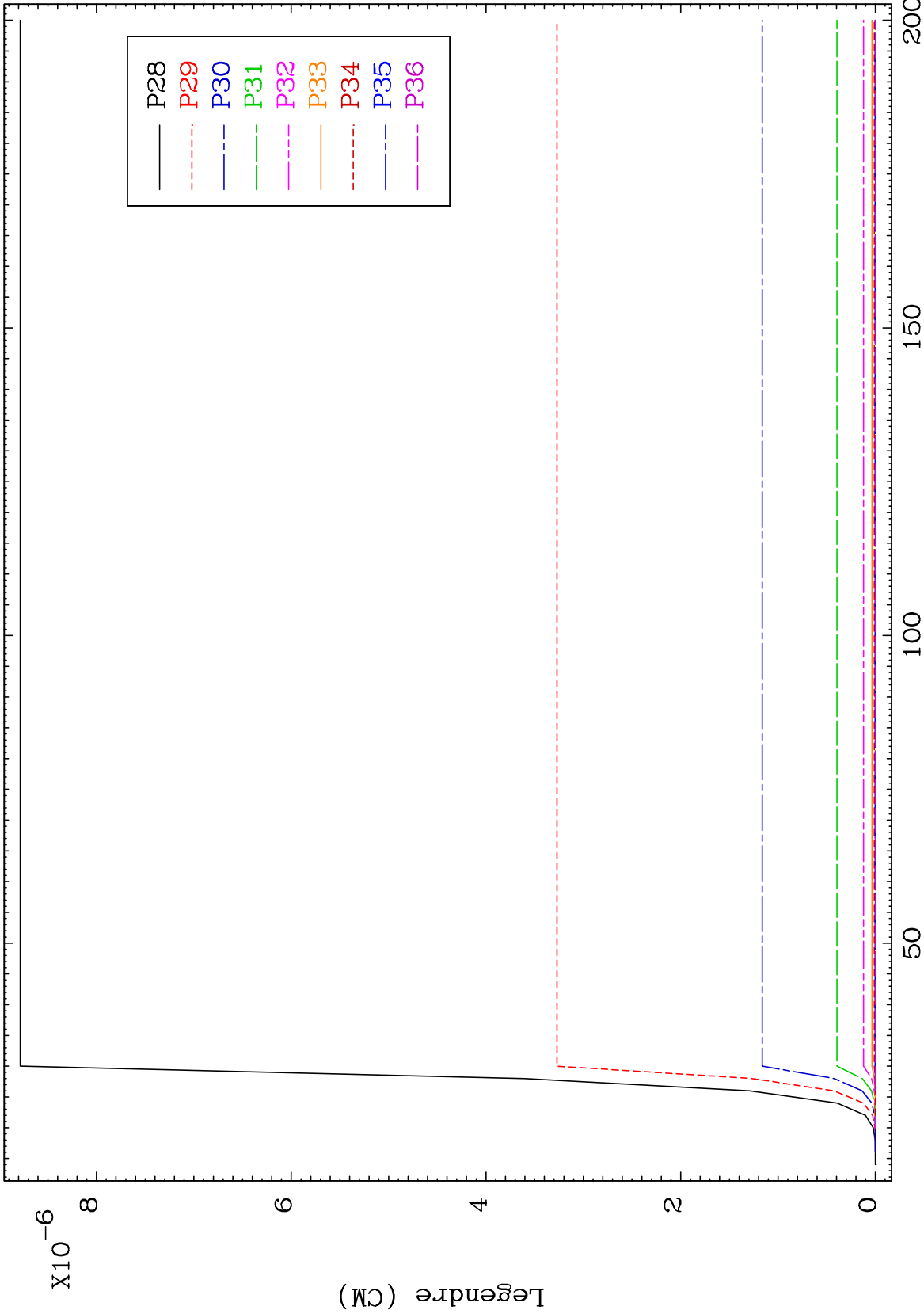


63 70-Yb-172

MAT 7037

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

70-Yb-172



64

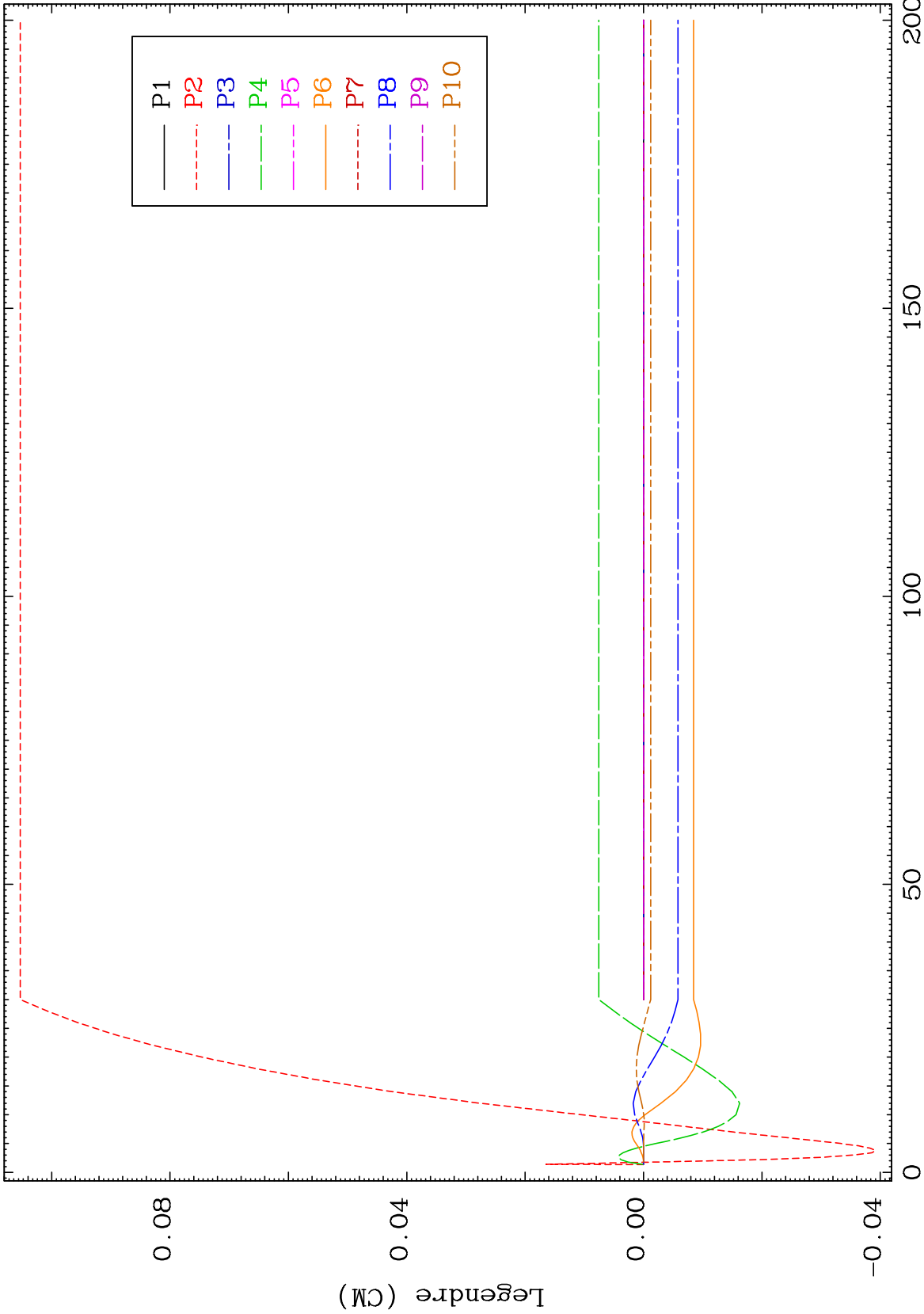
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



65

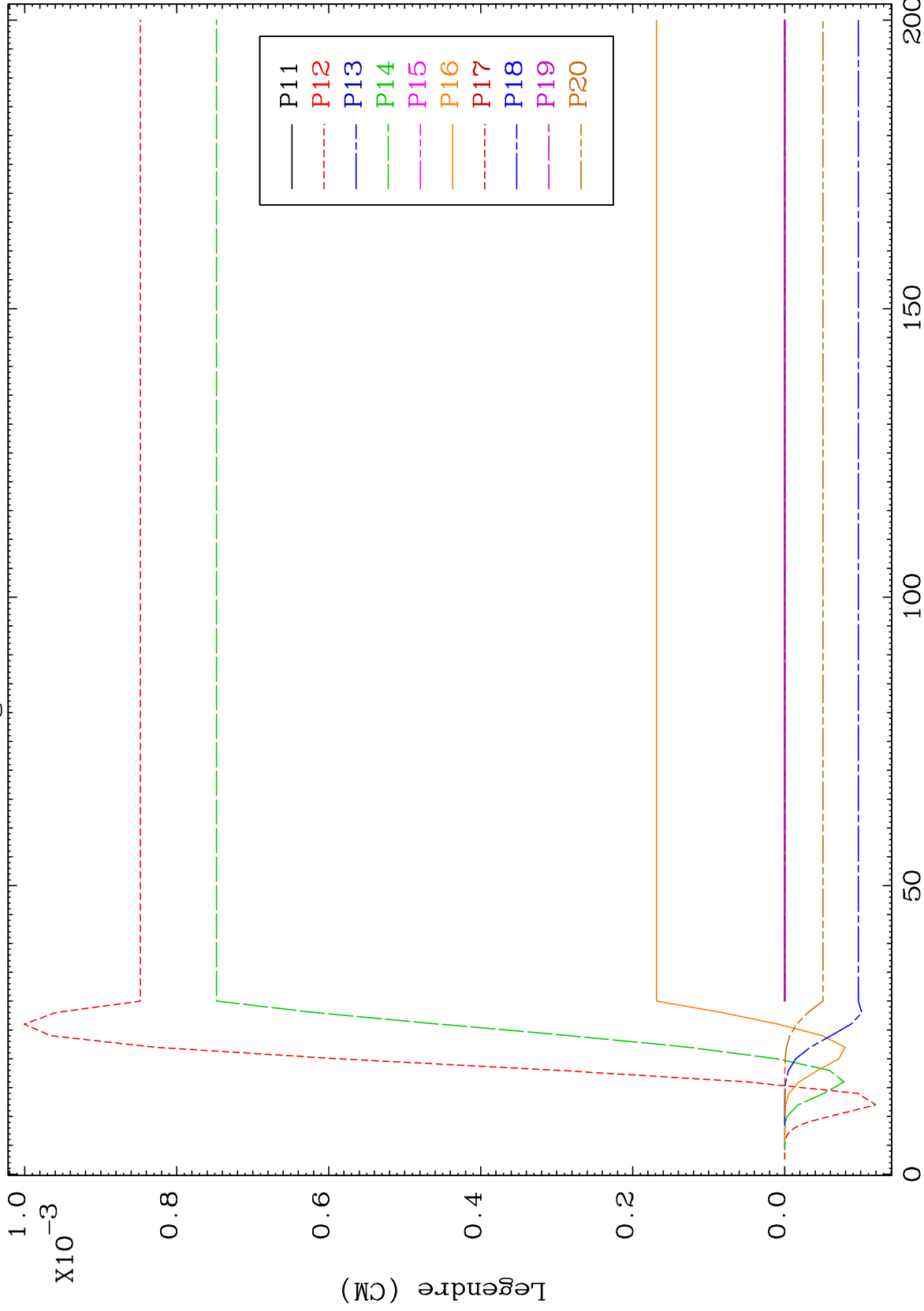
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



66

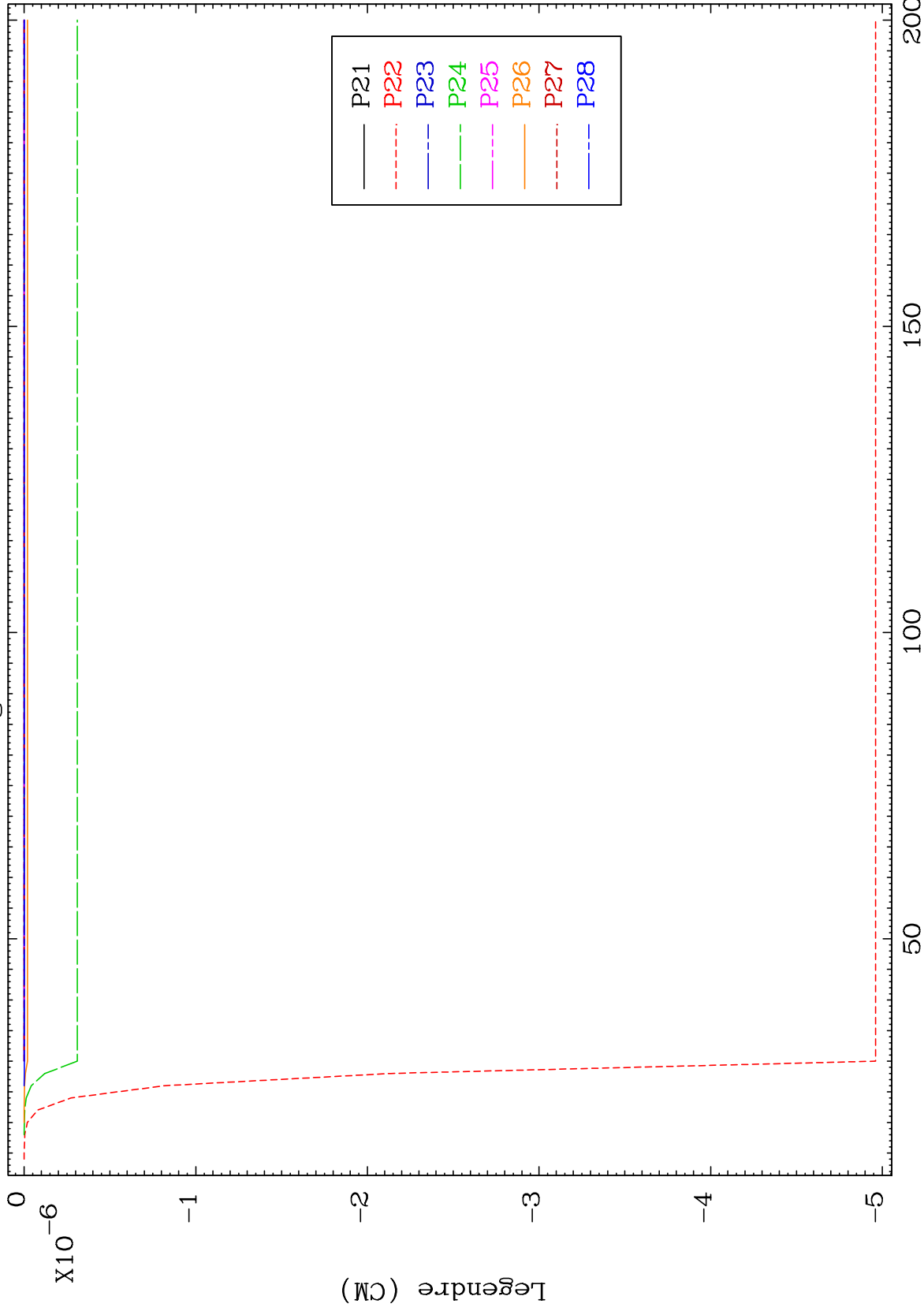
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



67

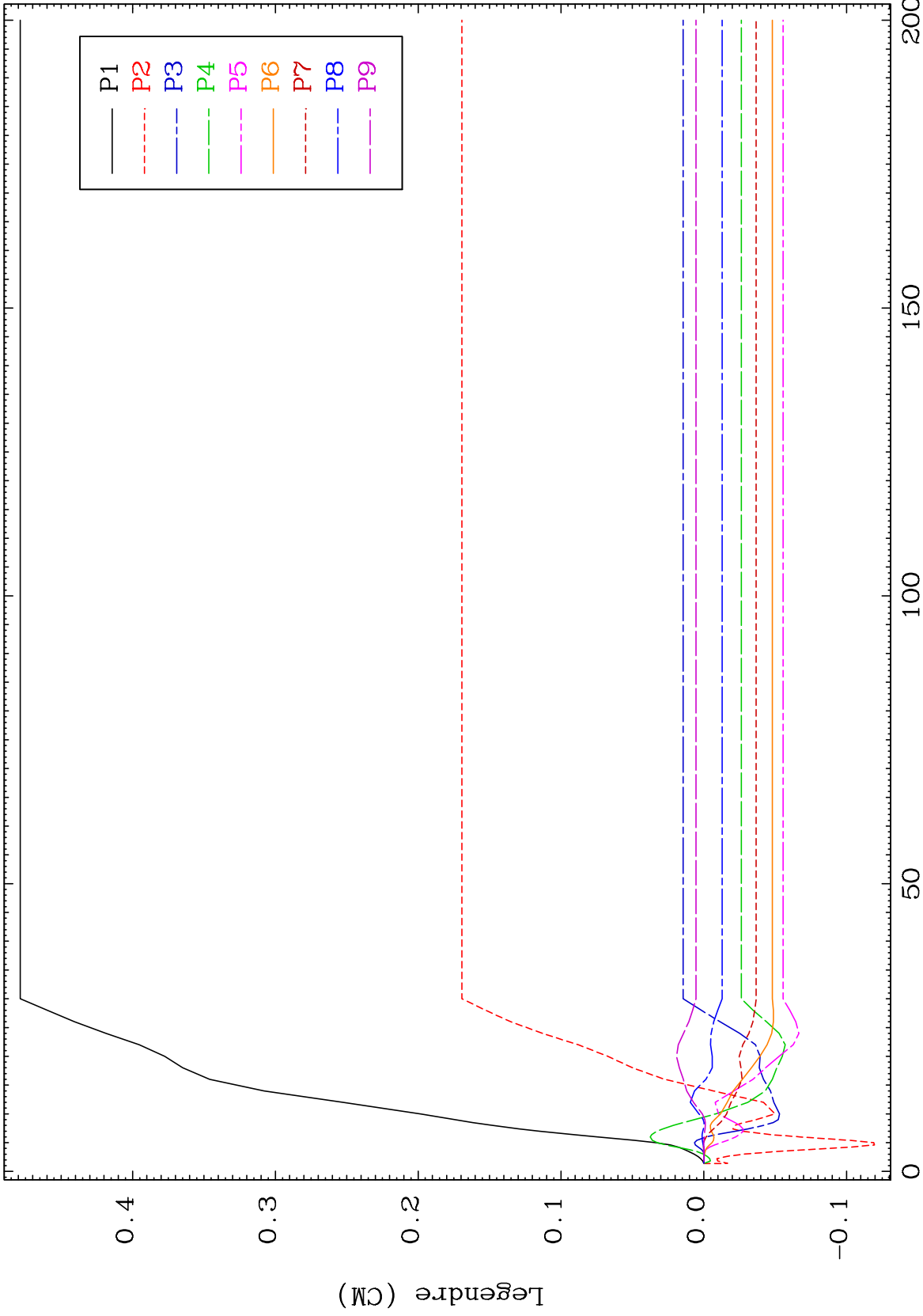
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



68

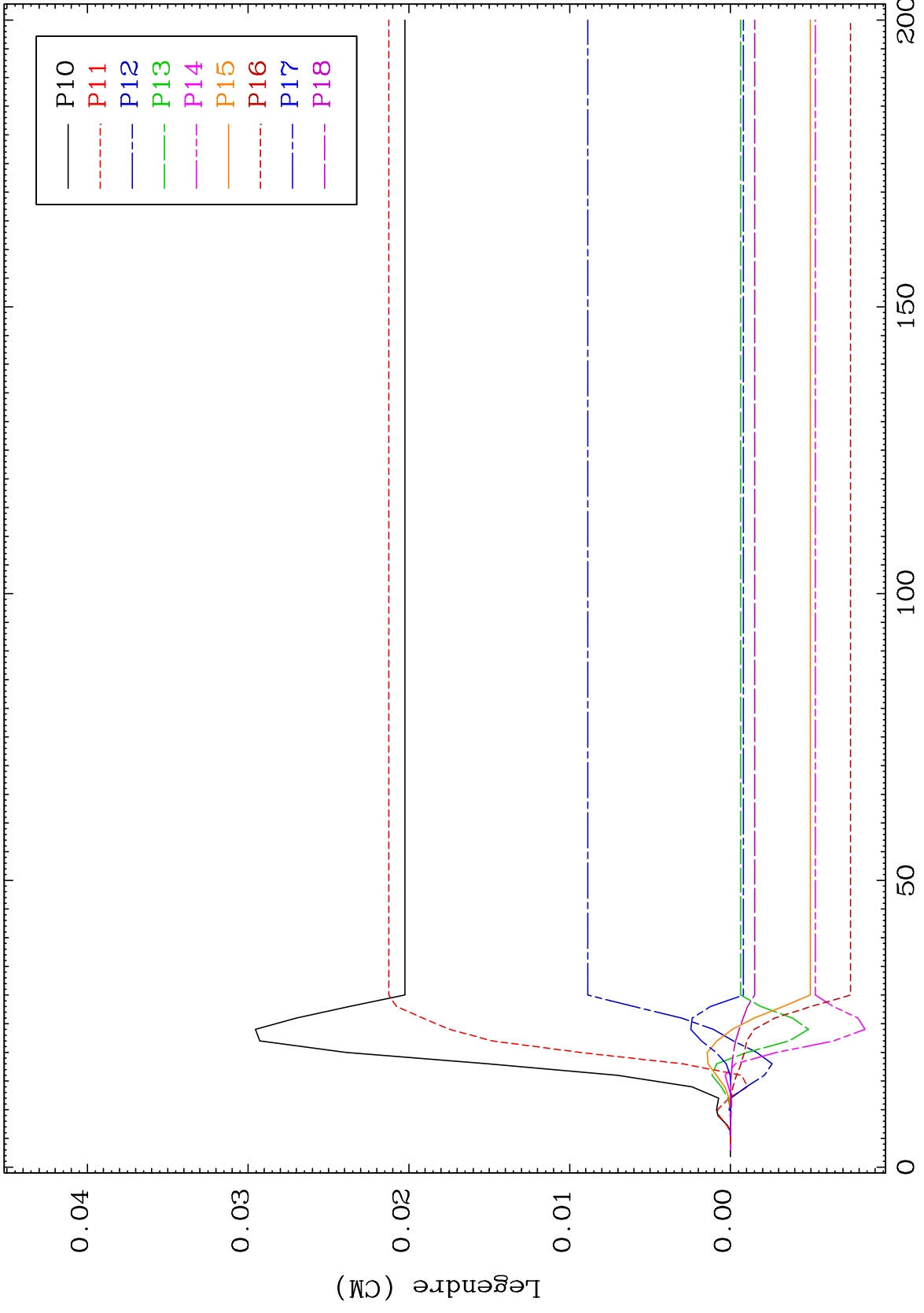
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



69

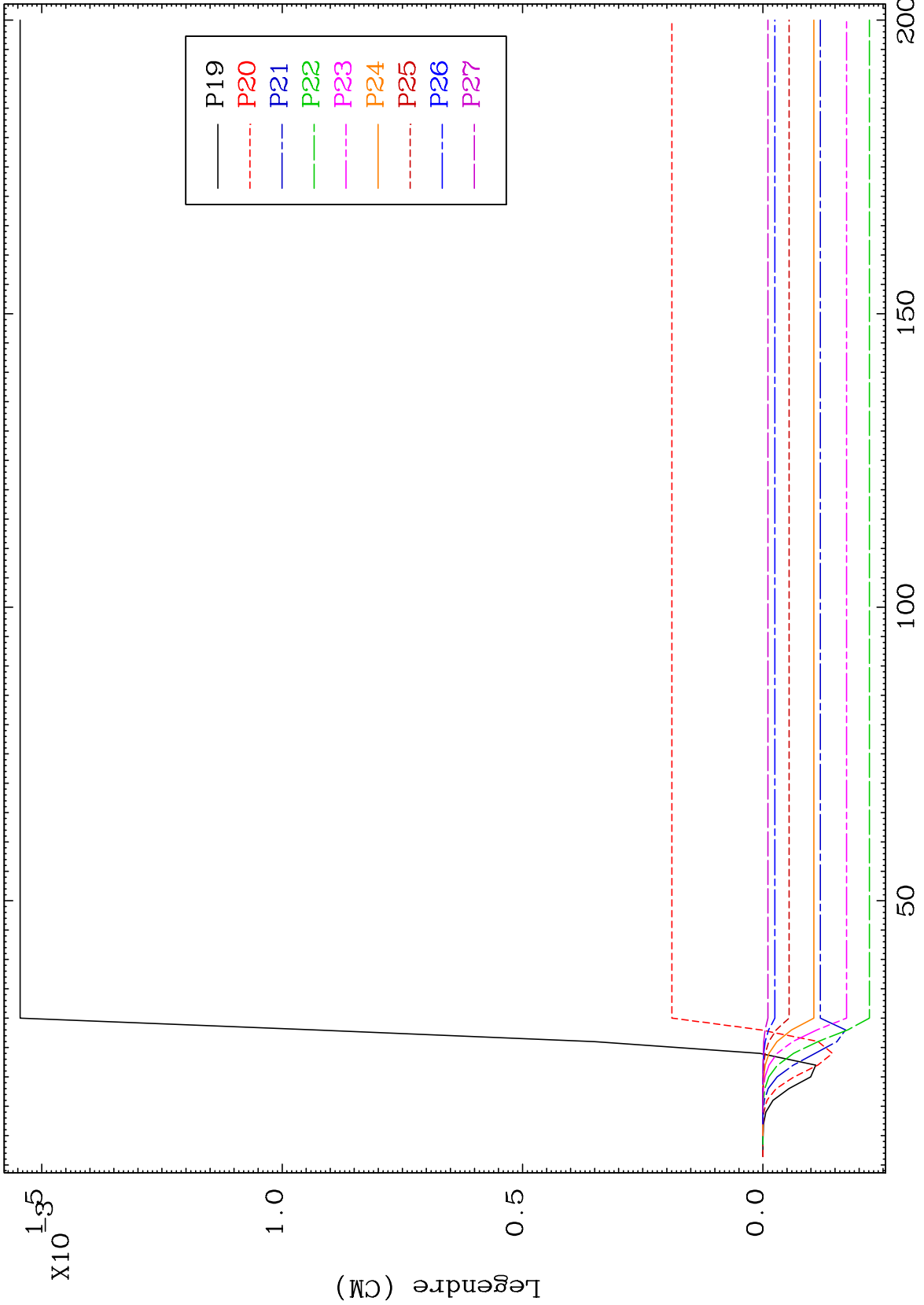
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



70

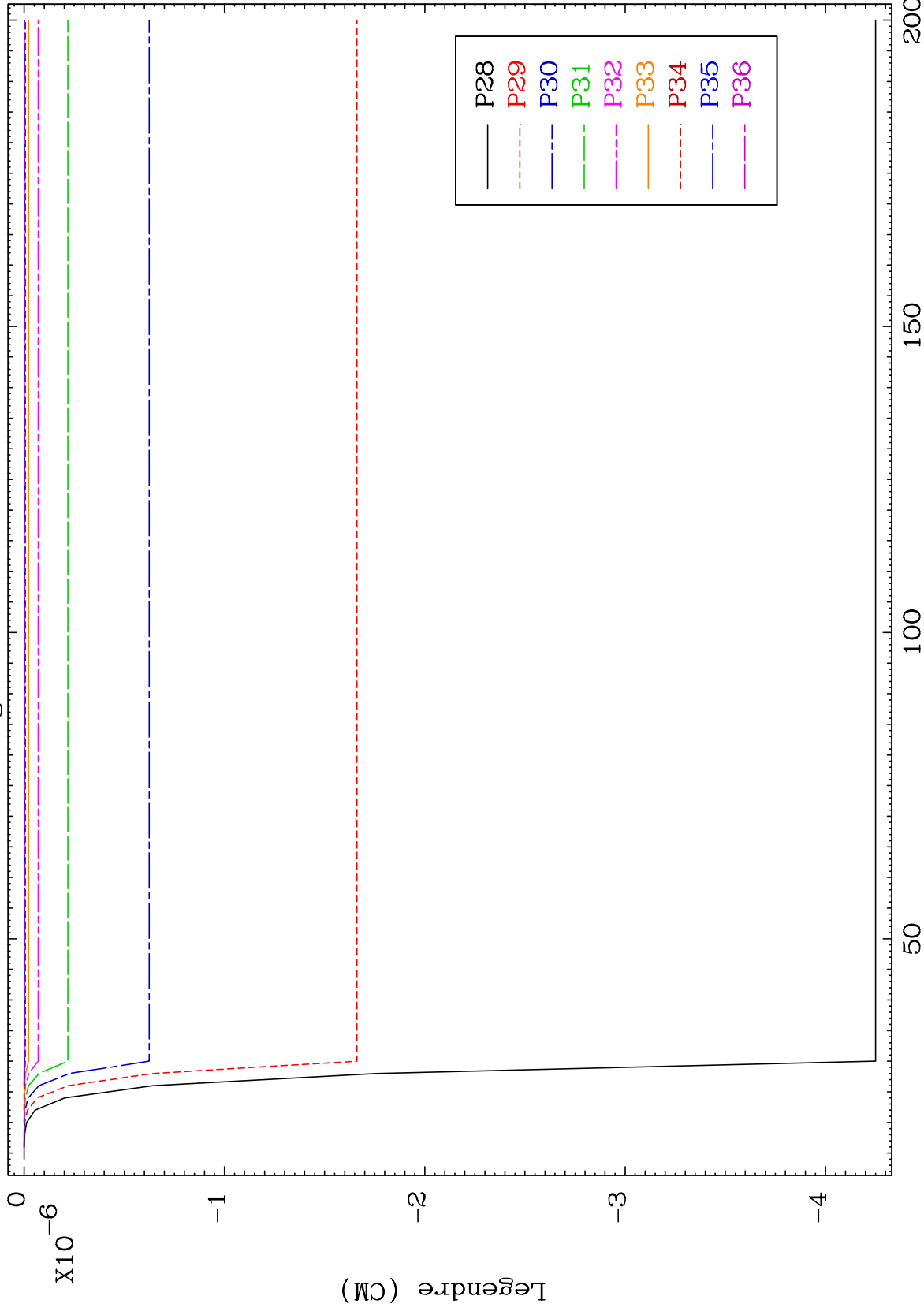
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



70-Yb-172

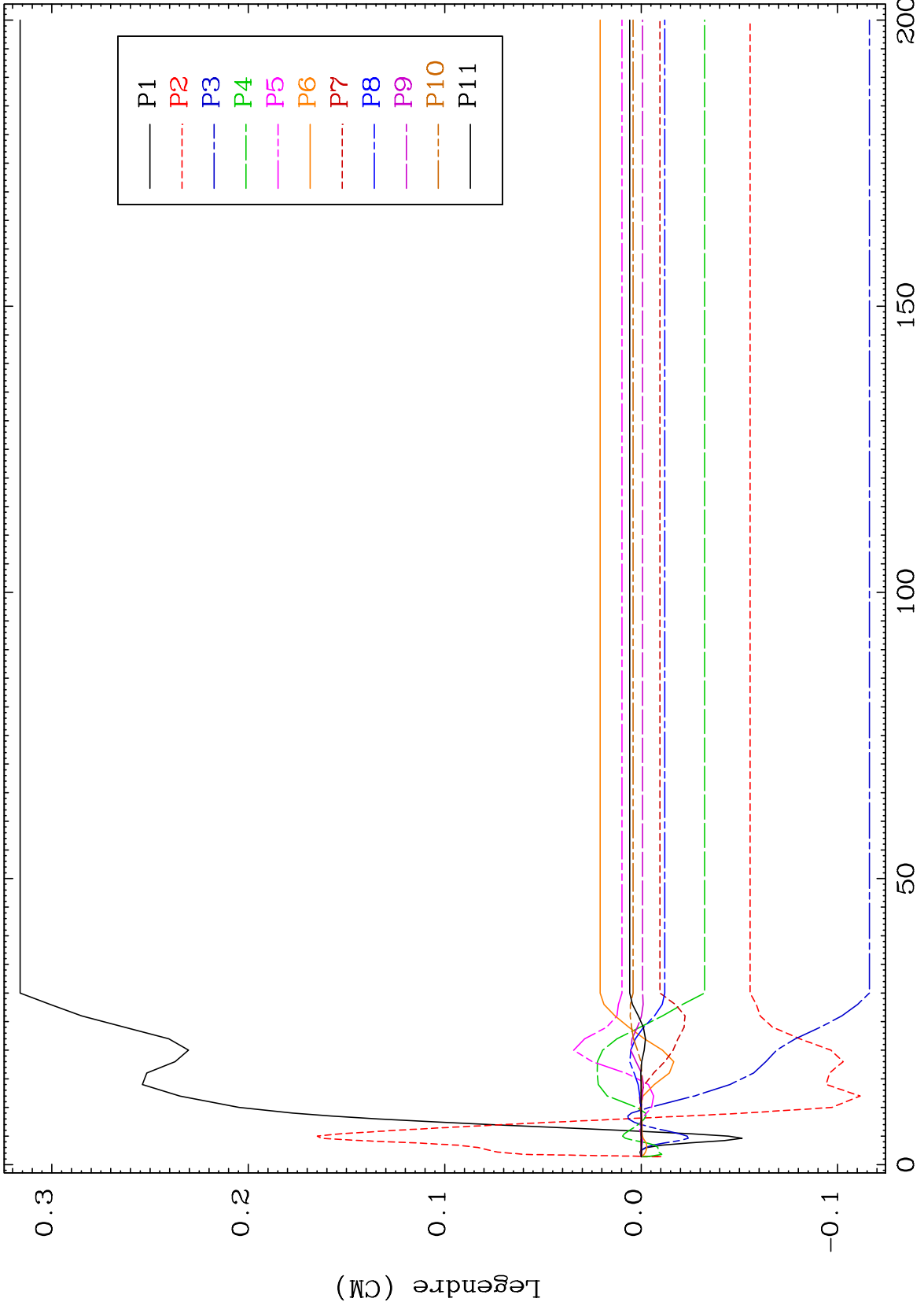
Incident Energy (MeV)

71

MAT 7037

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

70-Yb-172



72

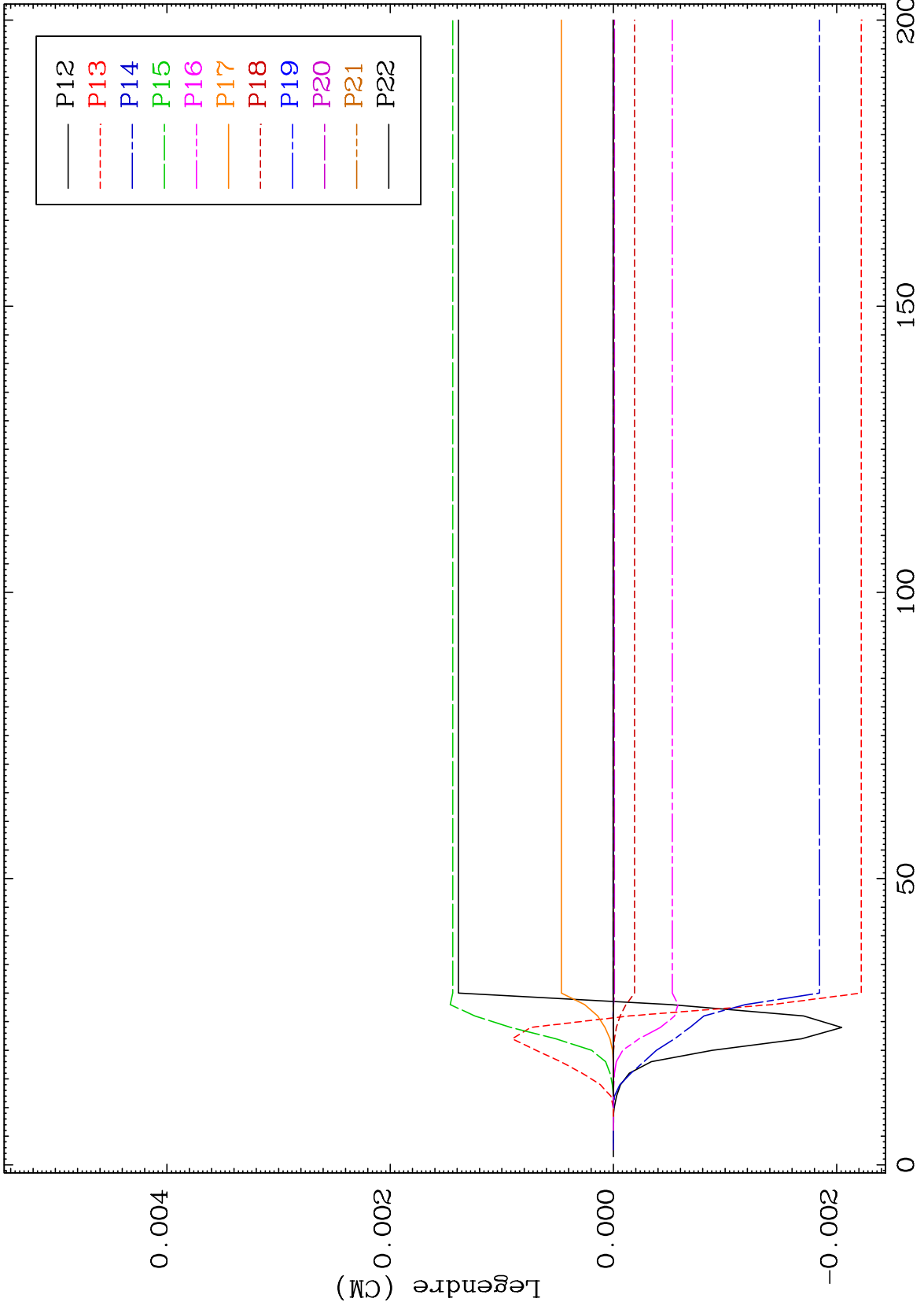
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



73

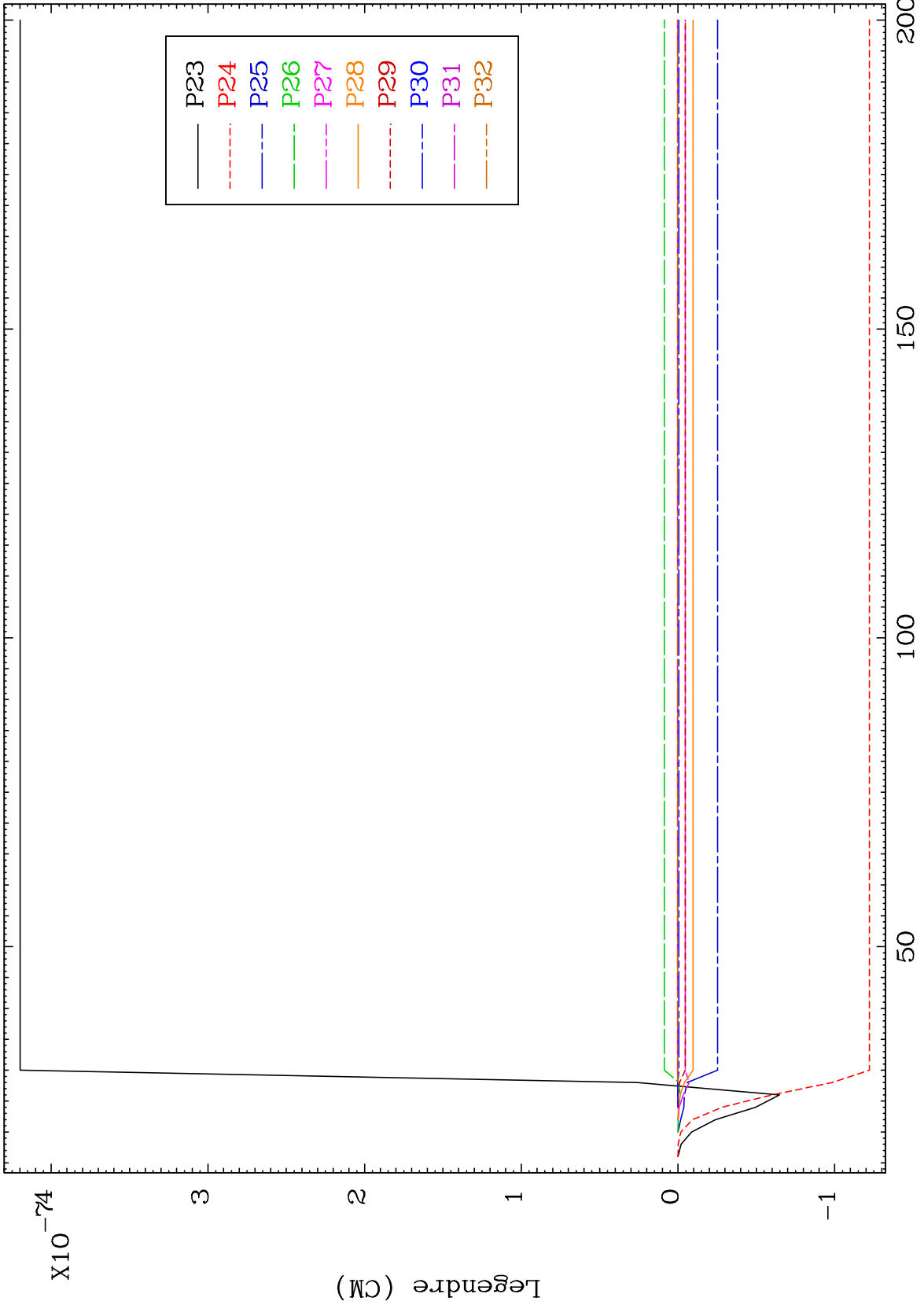
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



74

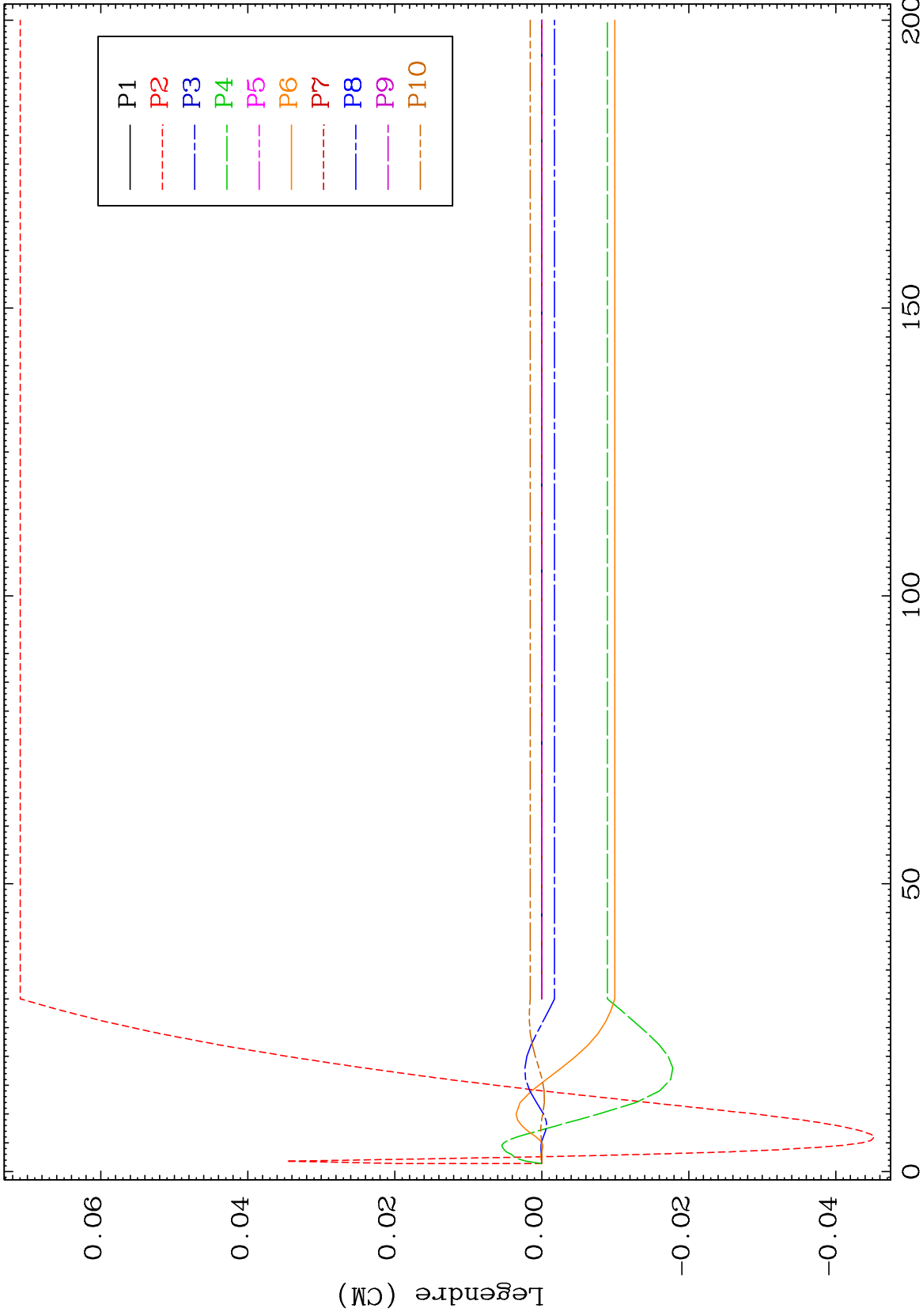
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



75

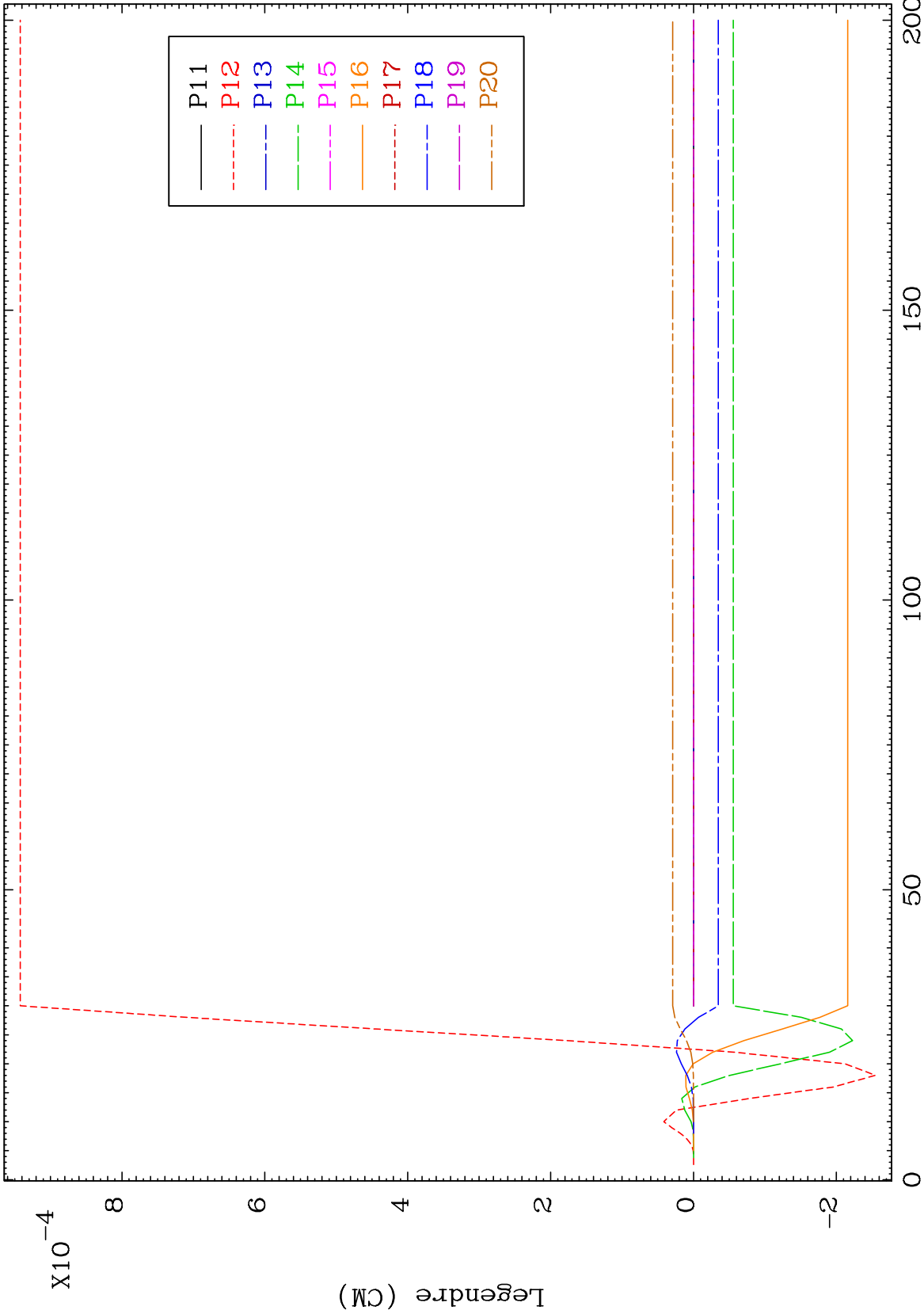
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172

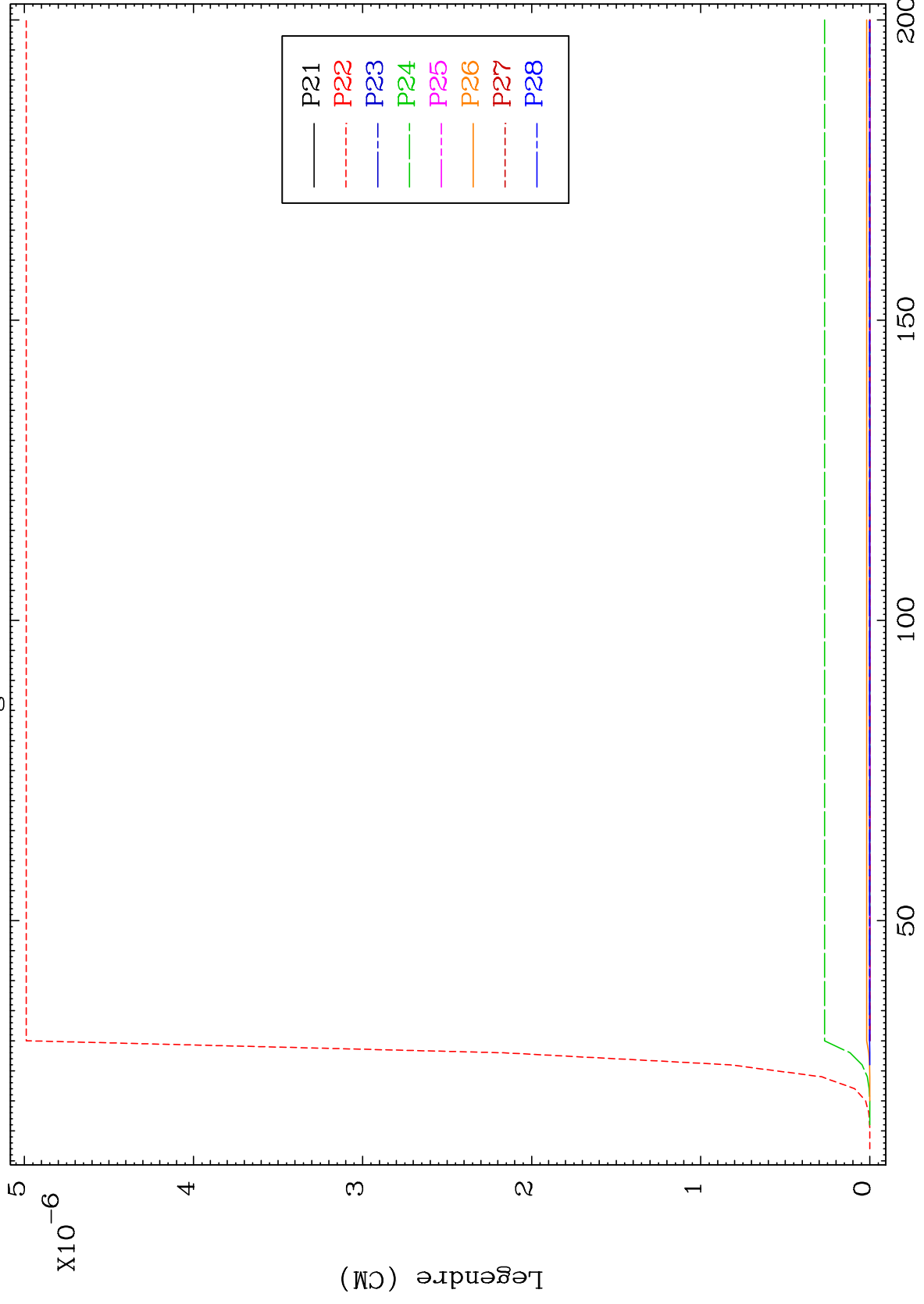


76

Incident Energy (MeV)

70-Yb-172

MAT 7037 MT= 66 (n,n') Level Legendre Coefficients 70-Yb-172

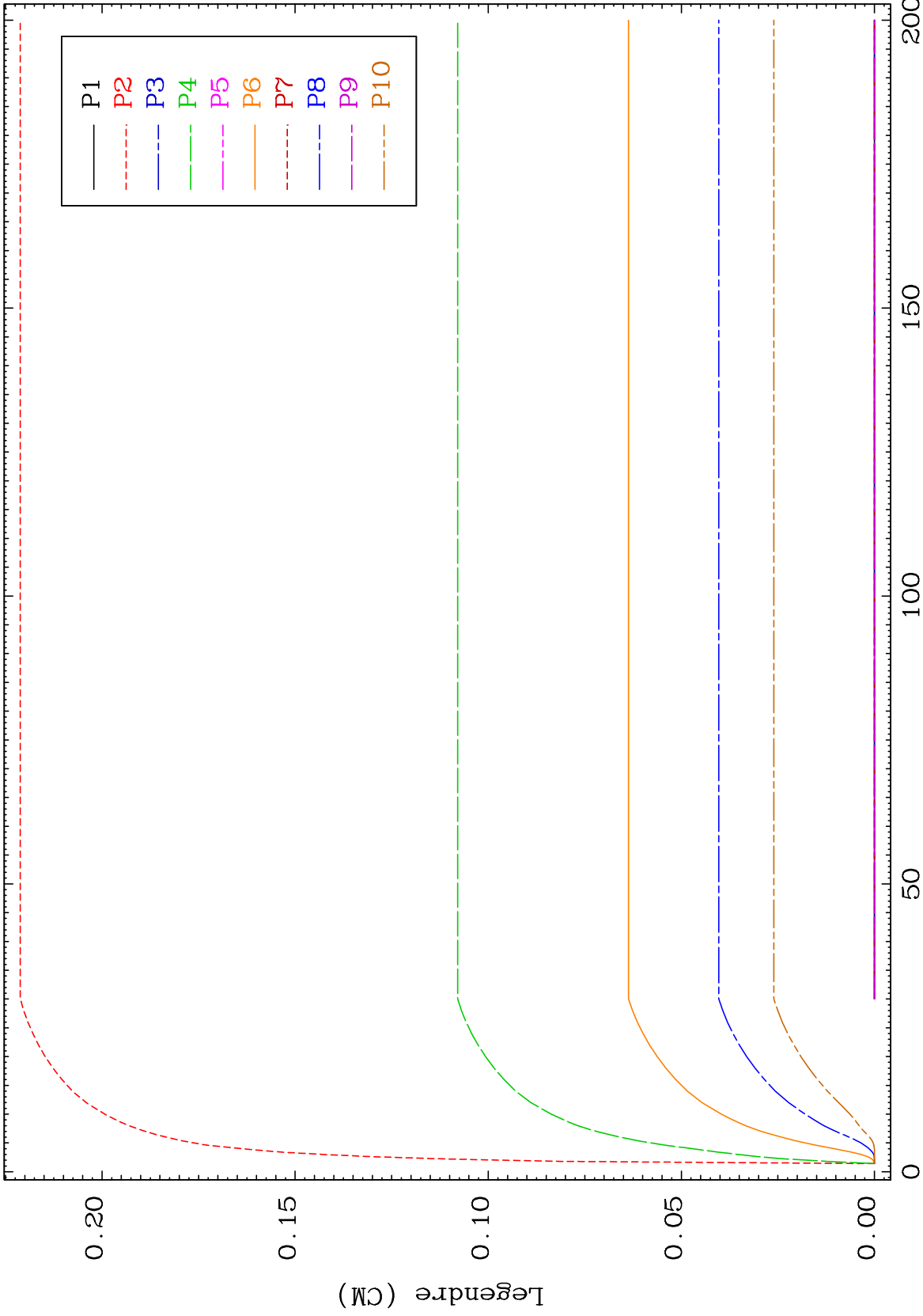


77 70-Yb-172

MAT 7037

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

70-Yb-172



78

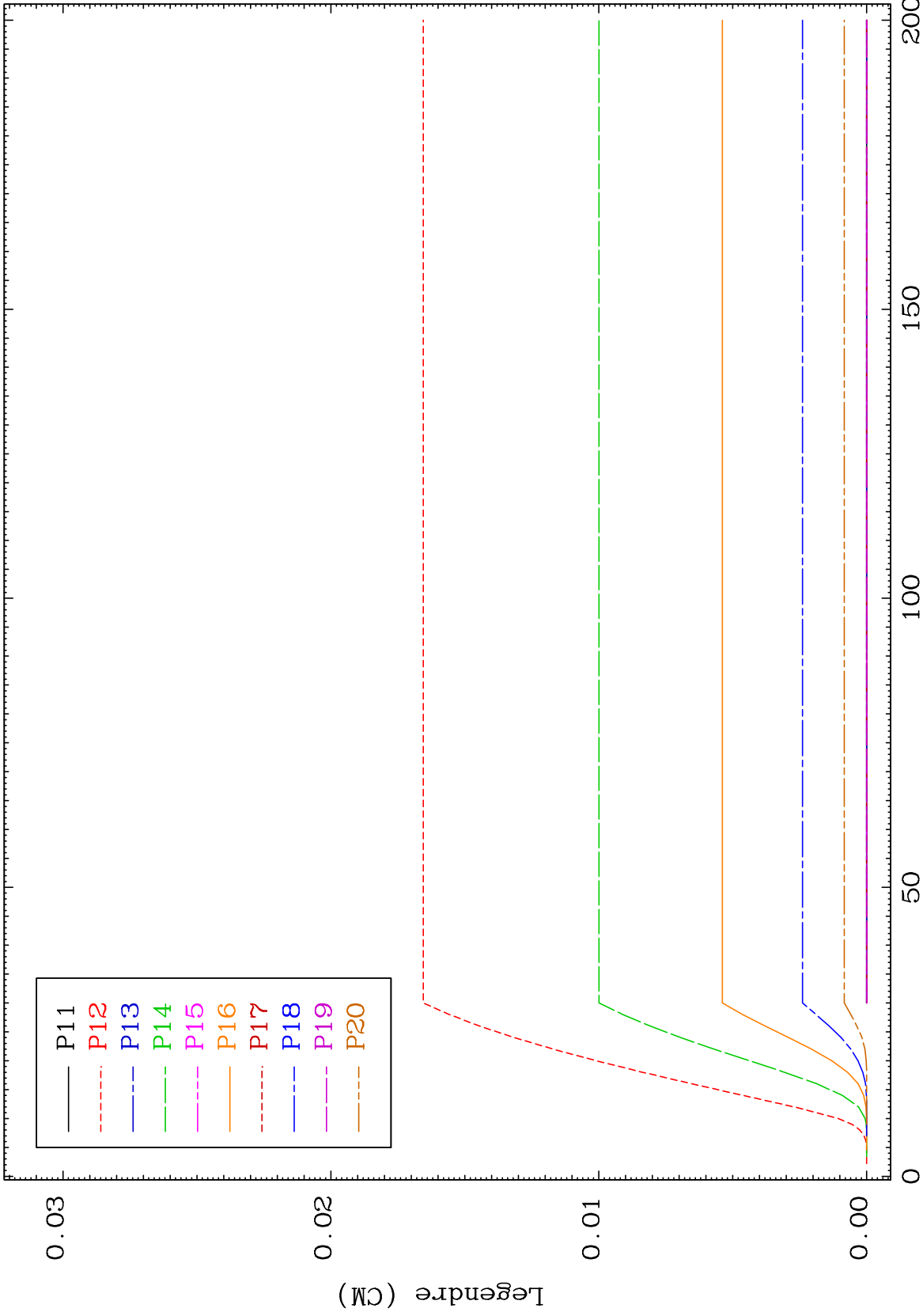
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



79

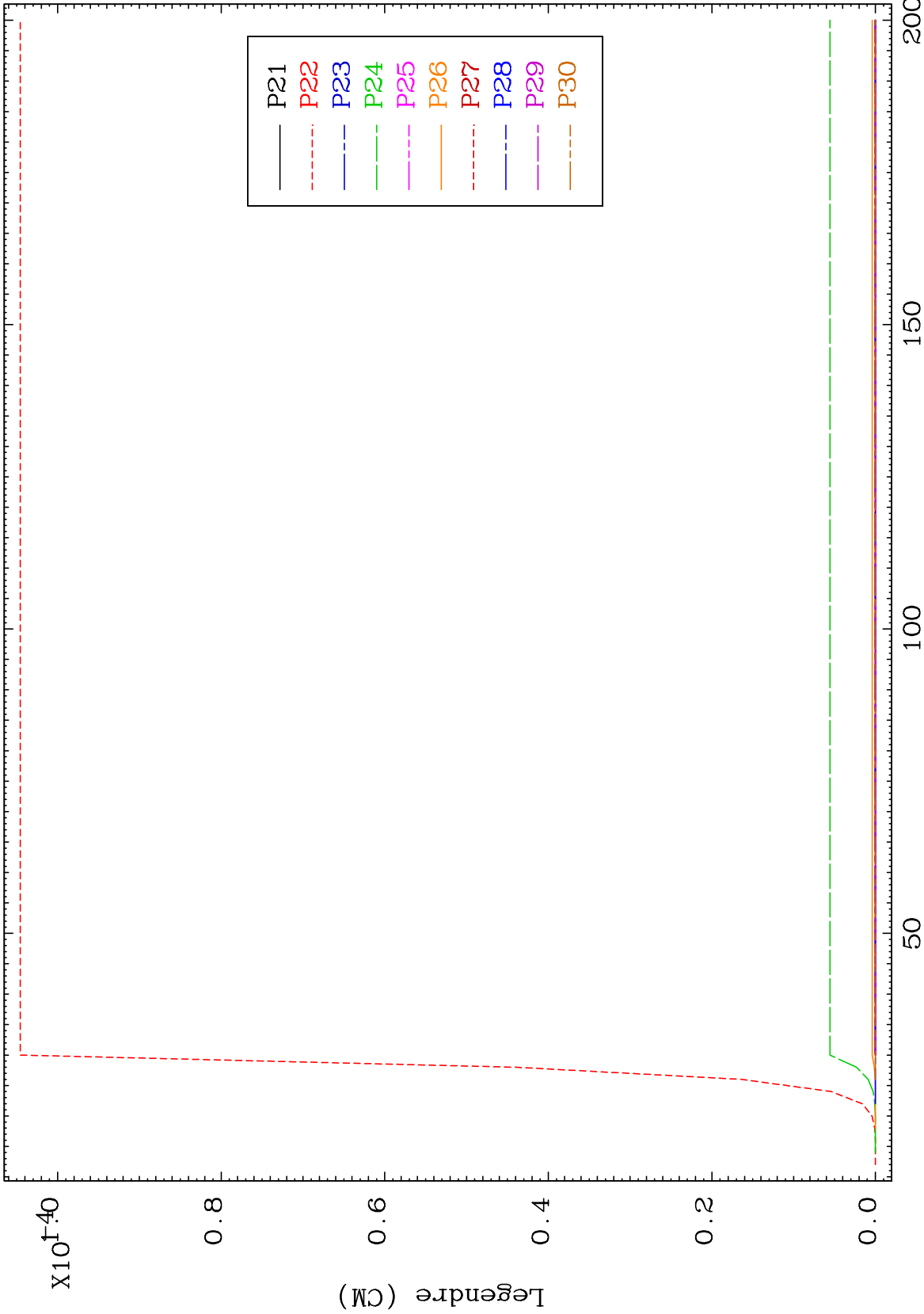
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



80

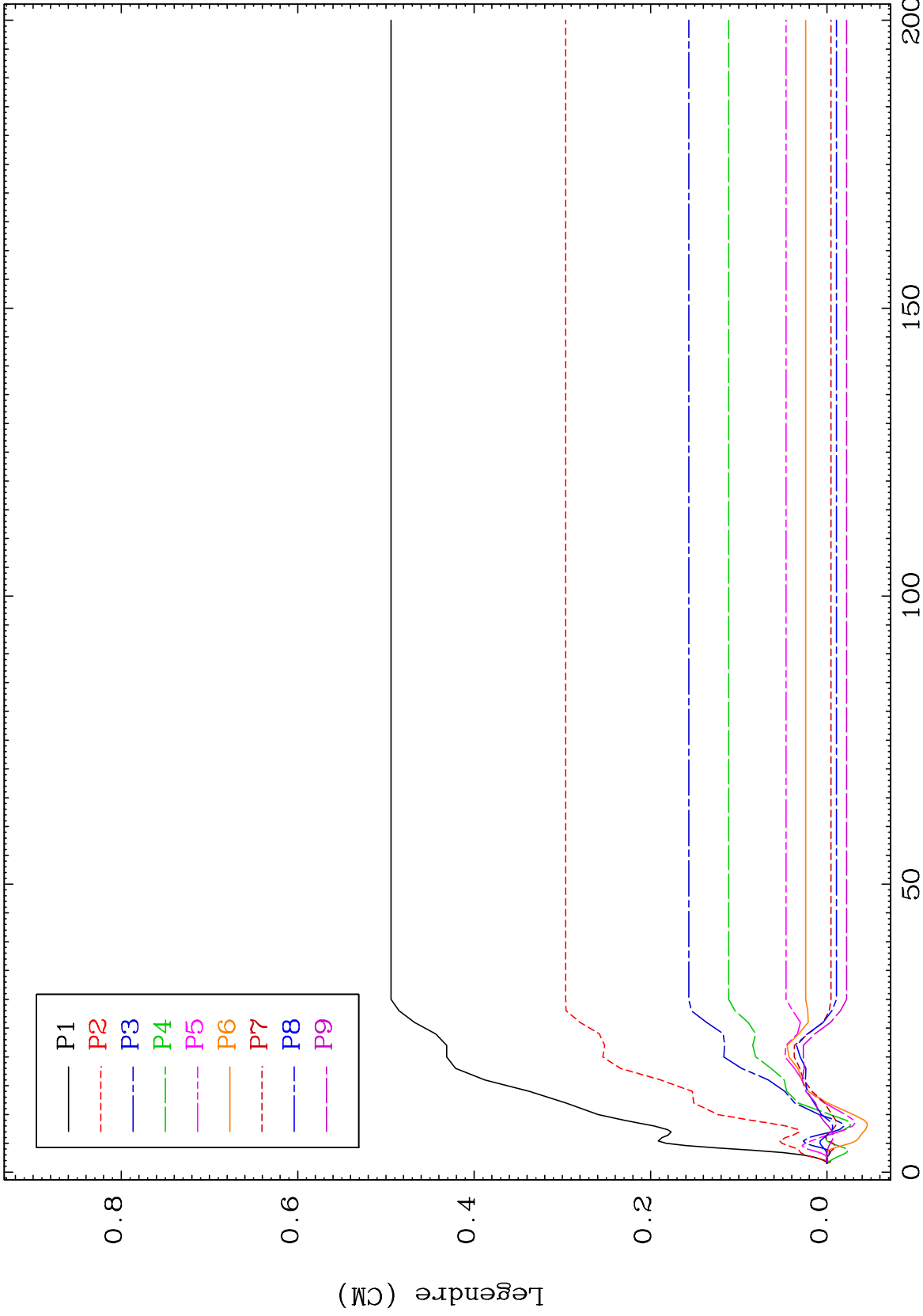
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



81

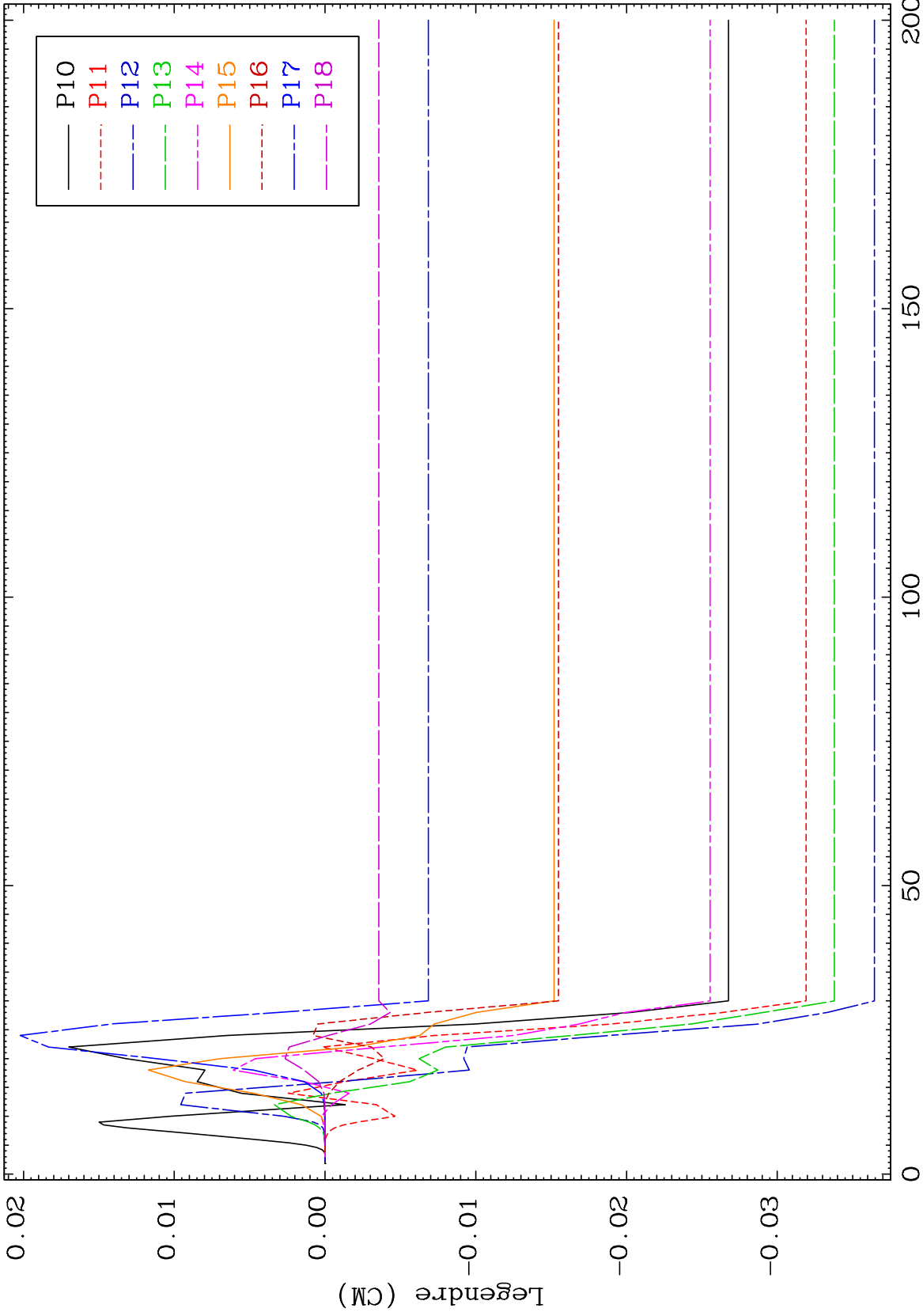
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



82

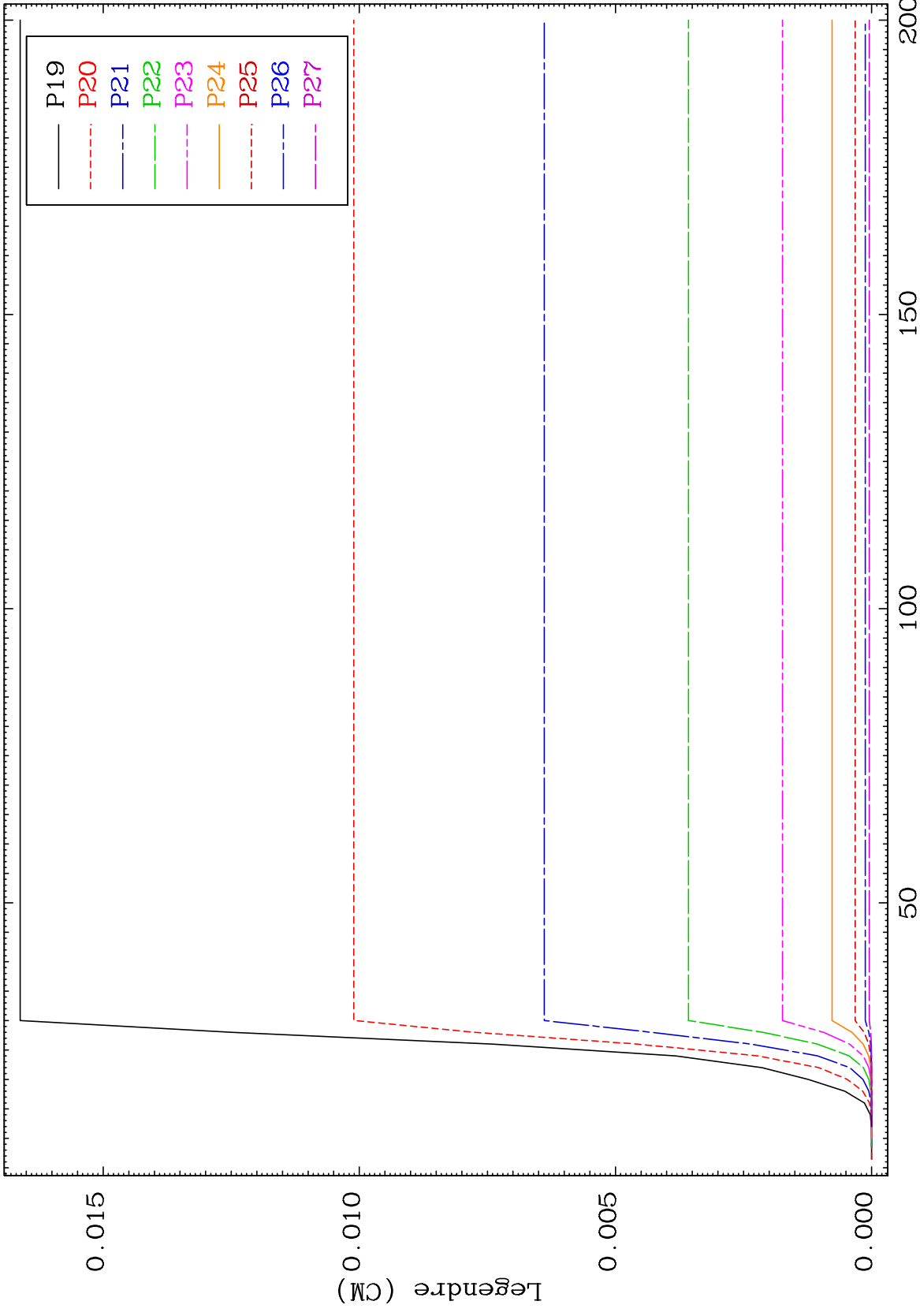
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



83

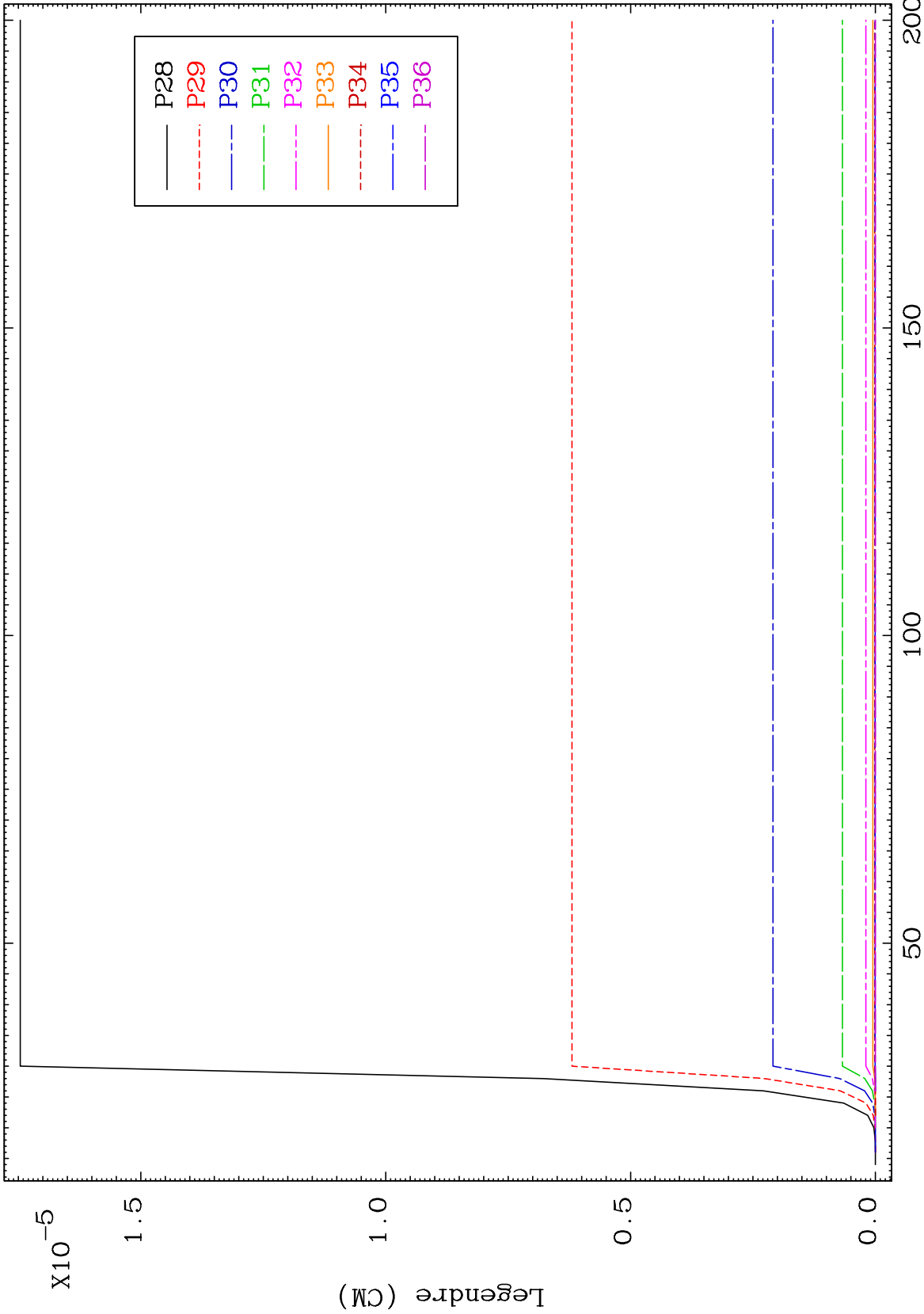
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



84

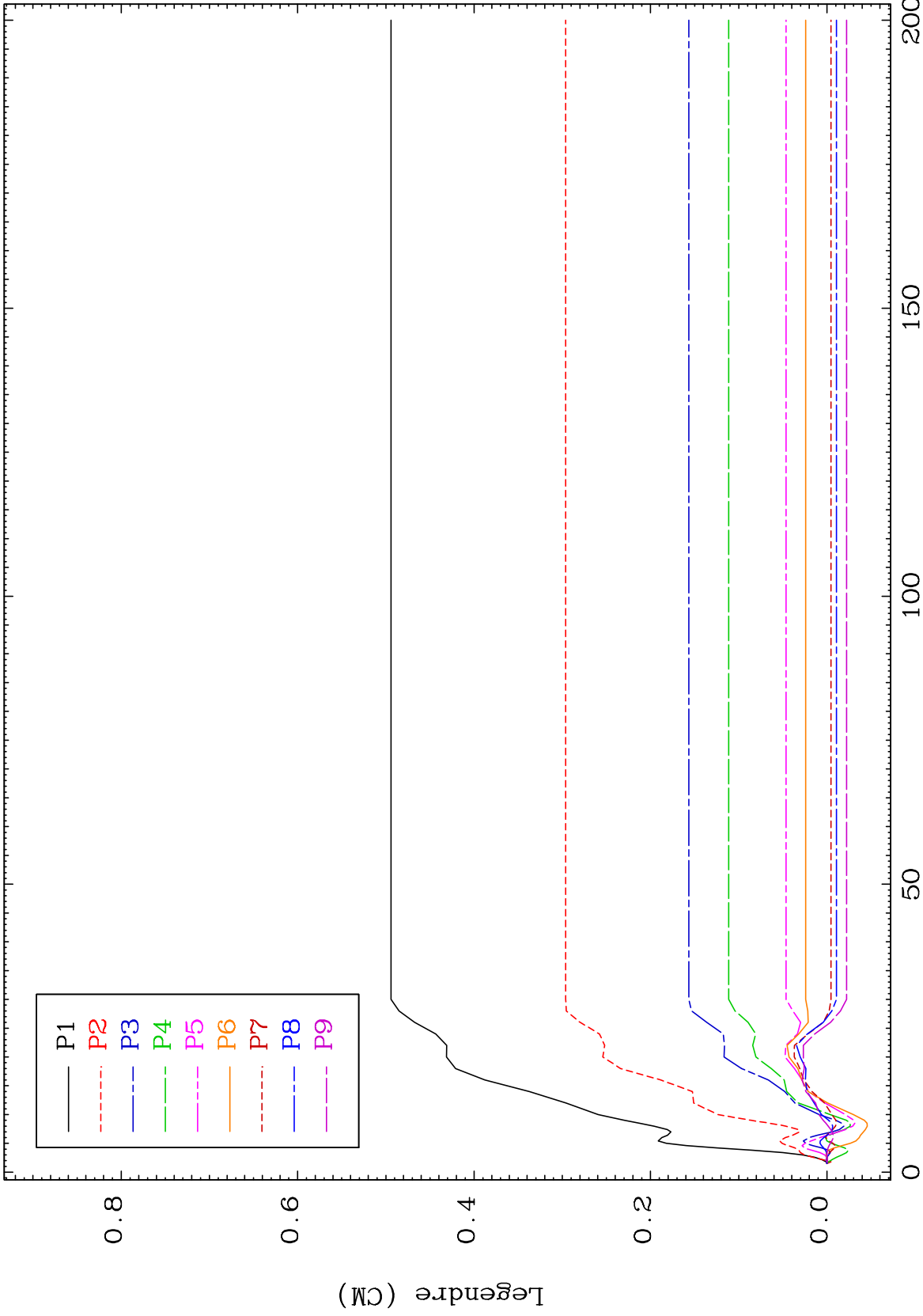
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



85

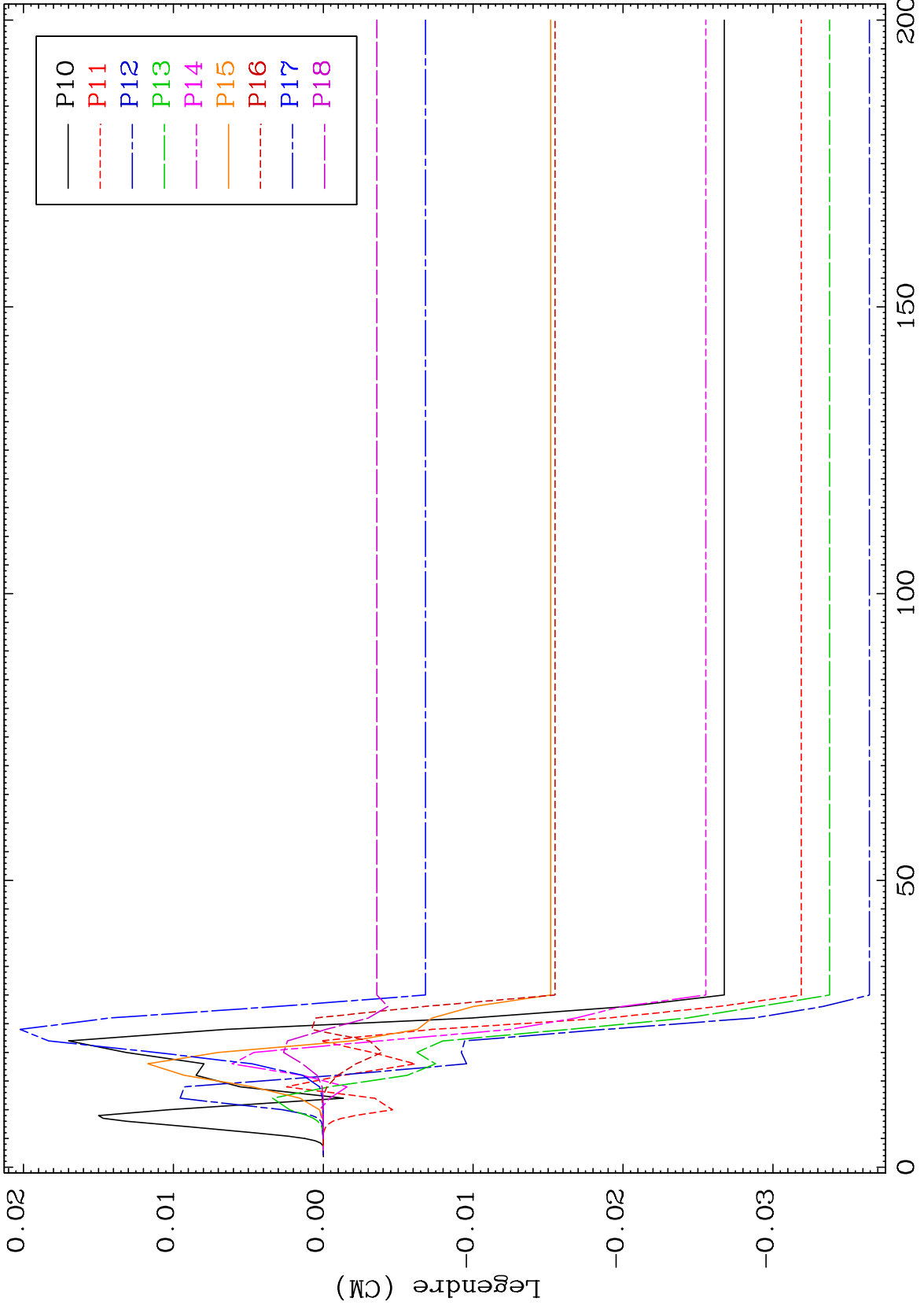
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



86

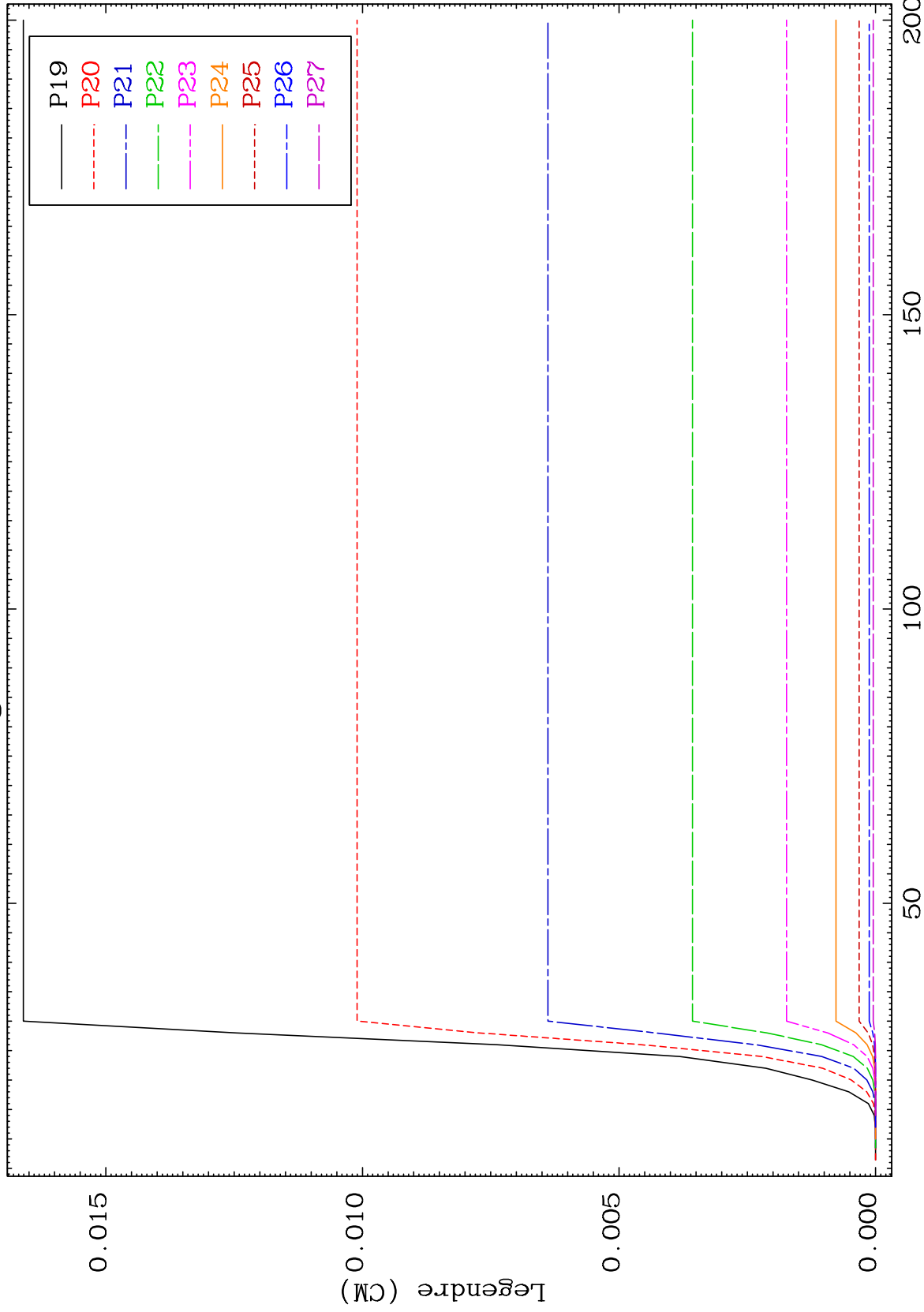
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



87

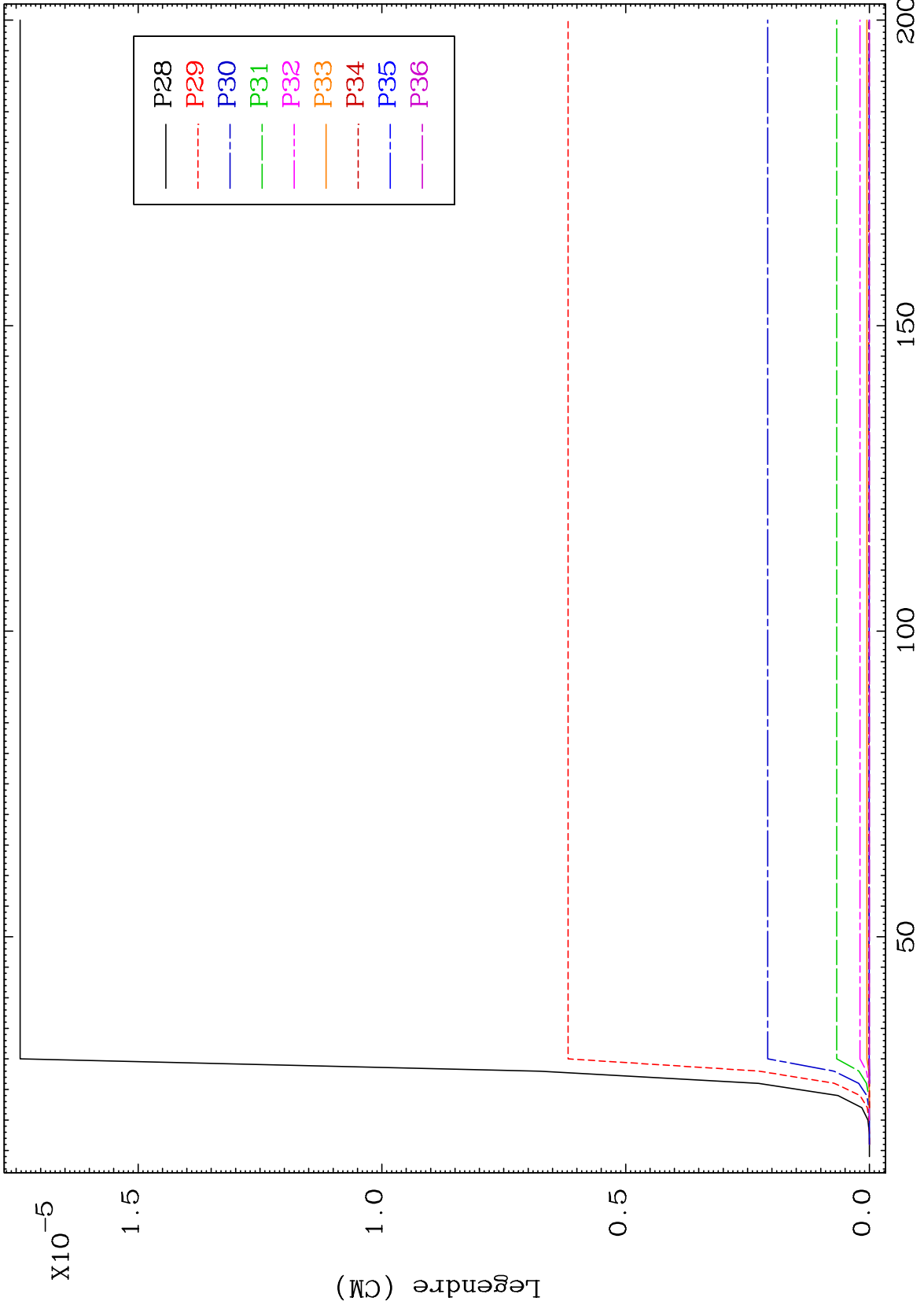
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



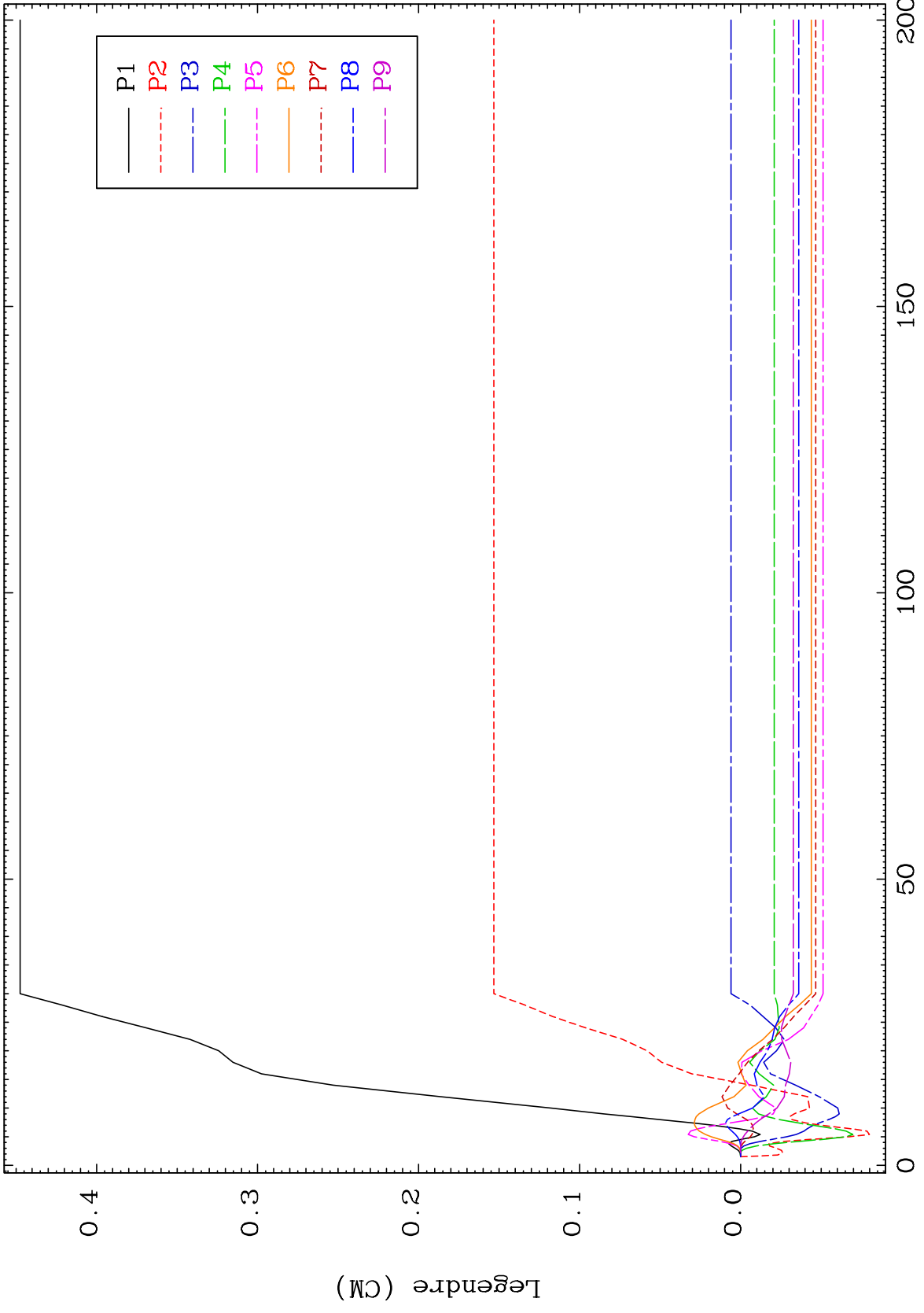
88

70-Yb-172

MAT 7037

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

70-Yb-172



89

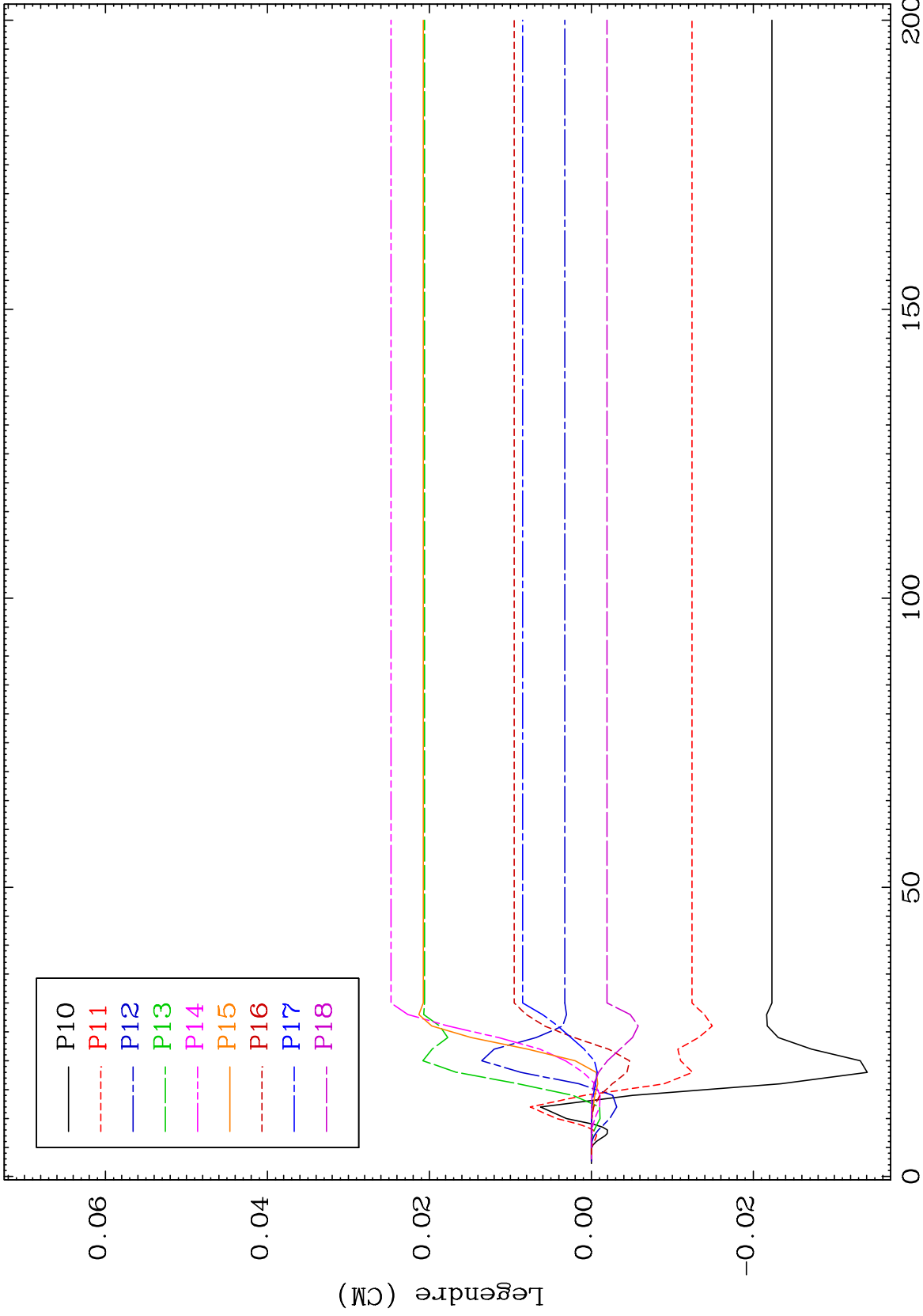
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



90

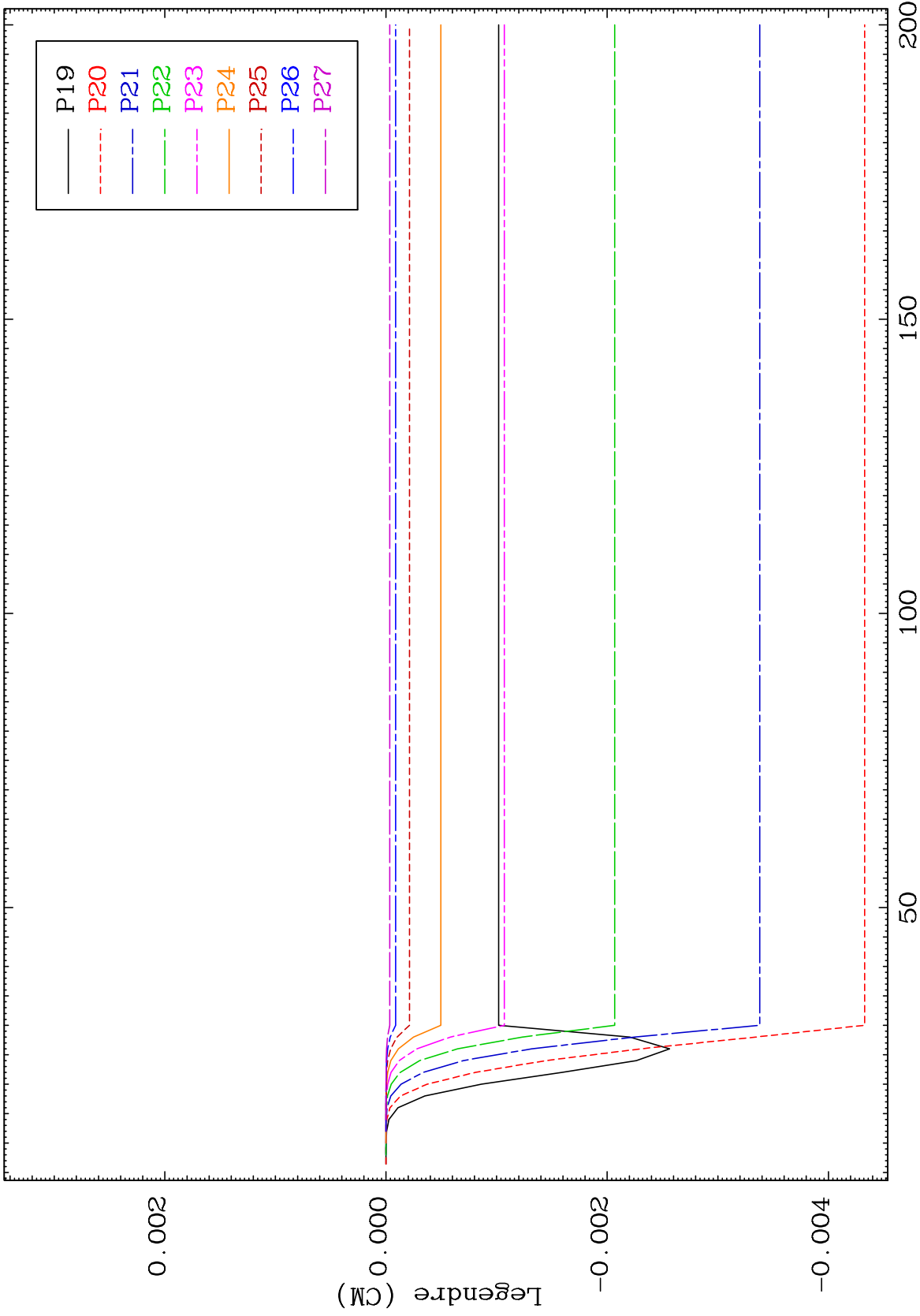
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



91

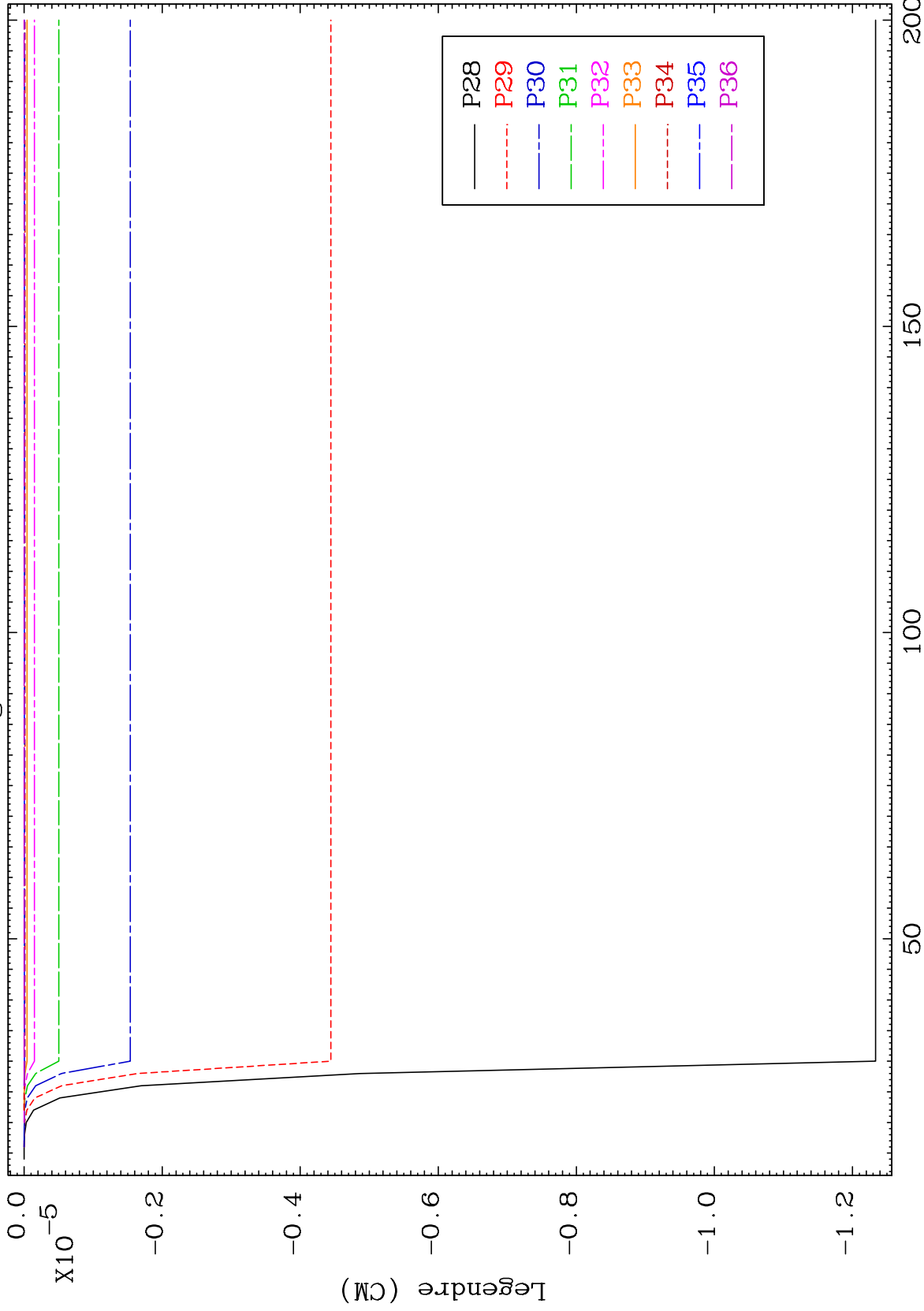
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



70-Yb-172

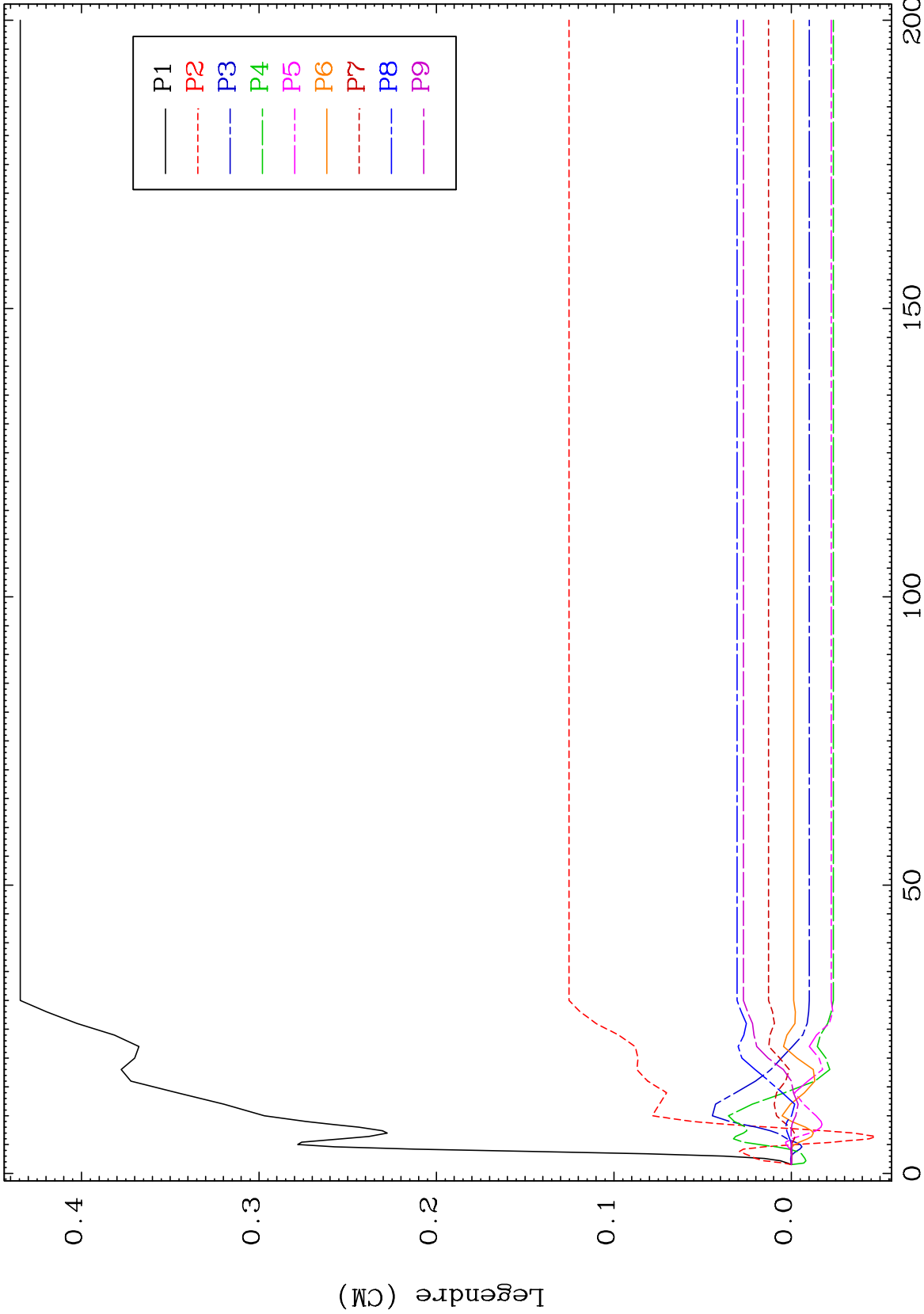
Incident Energy (MeV)

92

MAT 7037

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

70-Yb-172

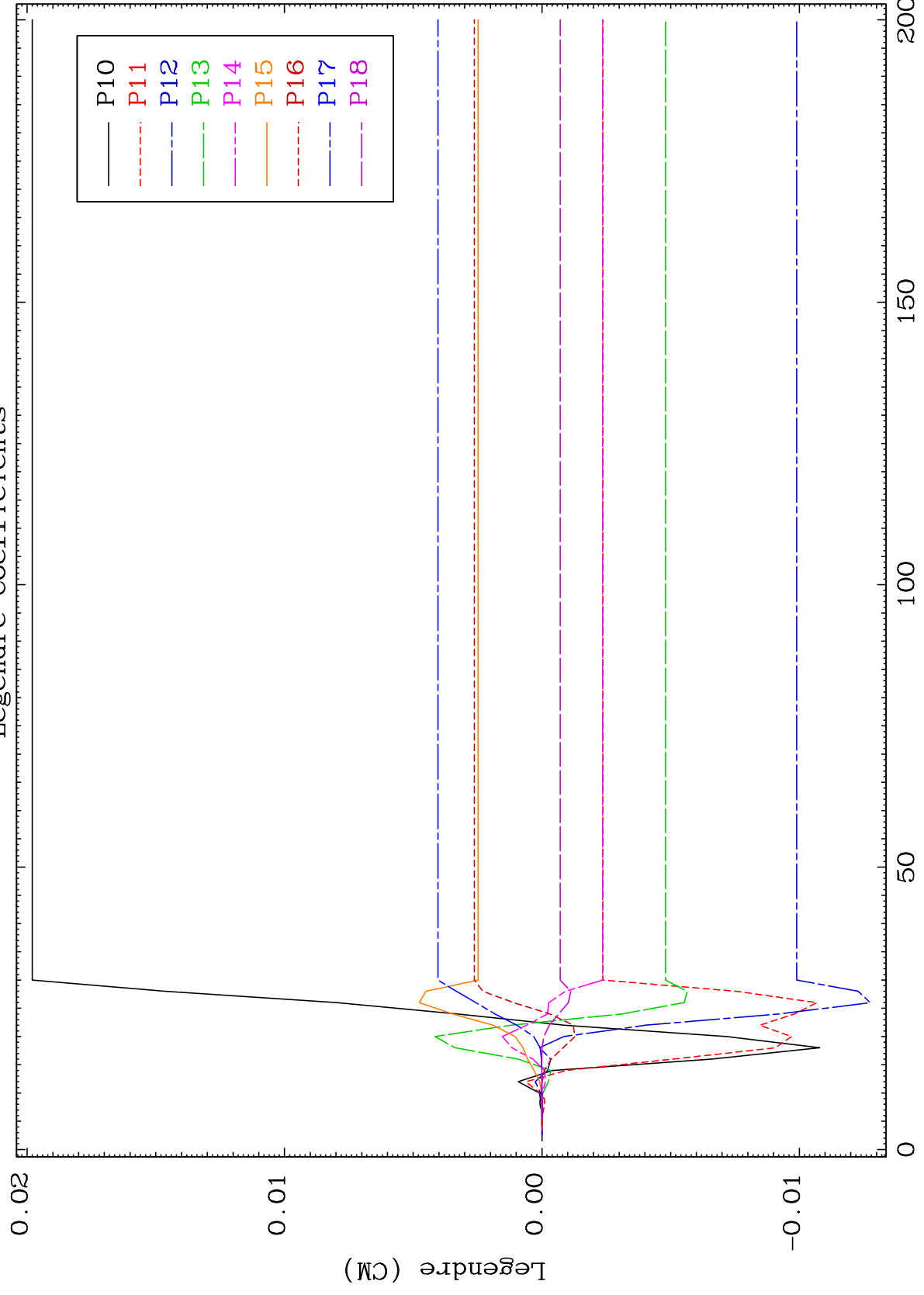


93

Incident Energy (MeV)

70-Yb-172

MAT 7037 MT= 71 (n,n') Level Legendre Coefficients 70-Yb-172

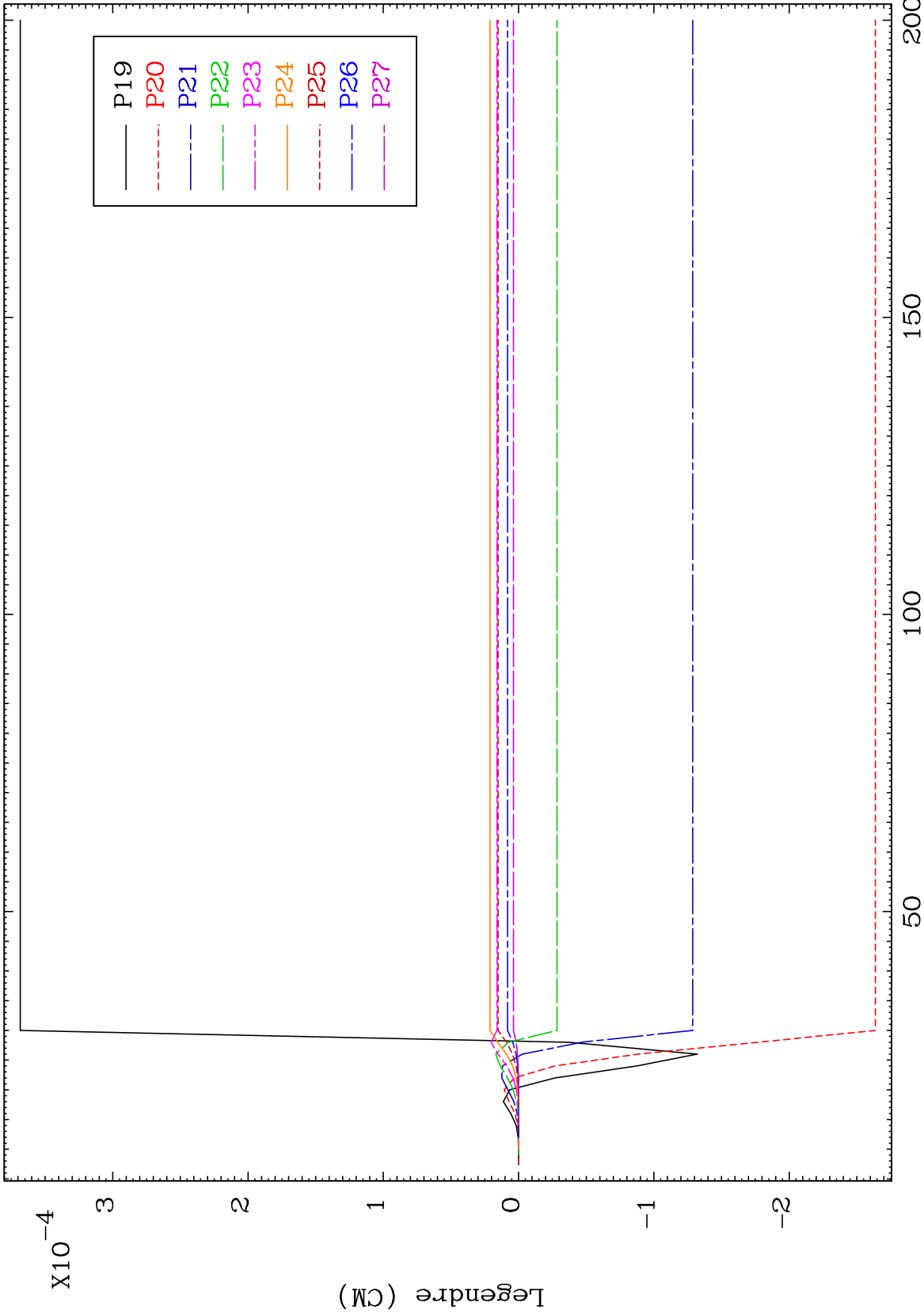


94 70-Yb-172

MAT 7037

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

70-Yb-172



95

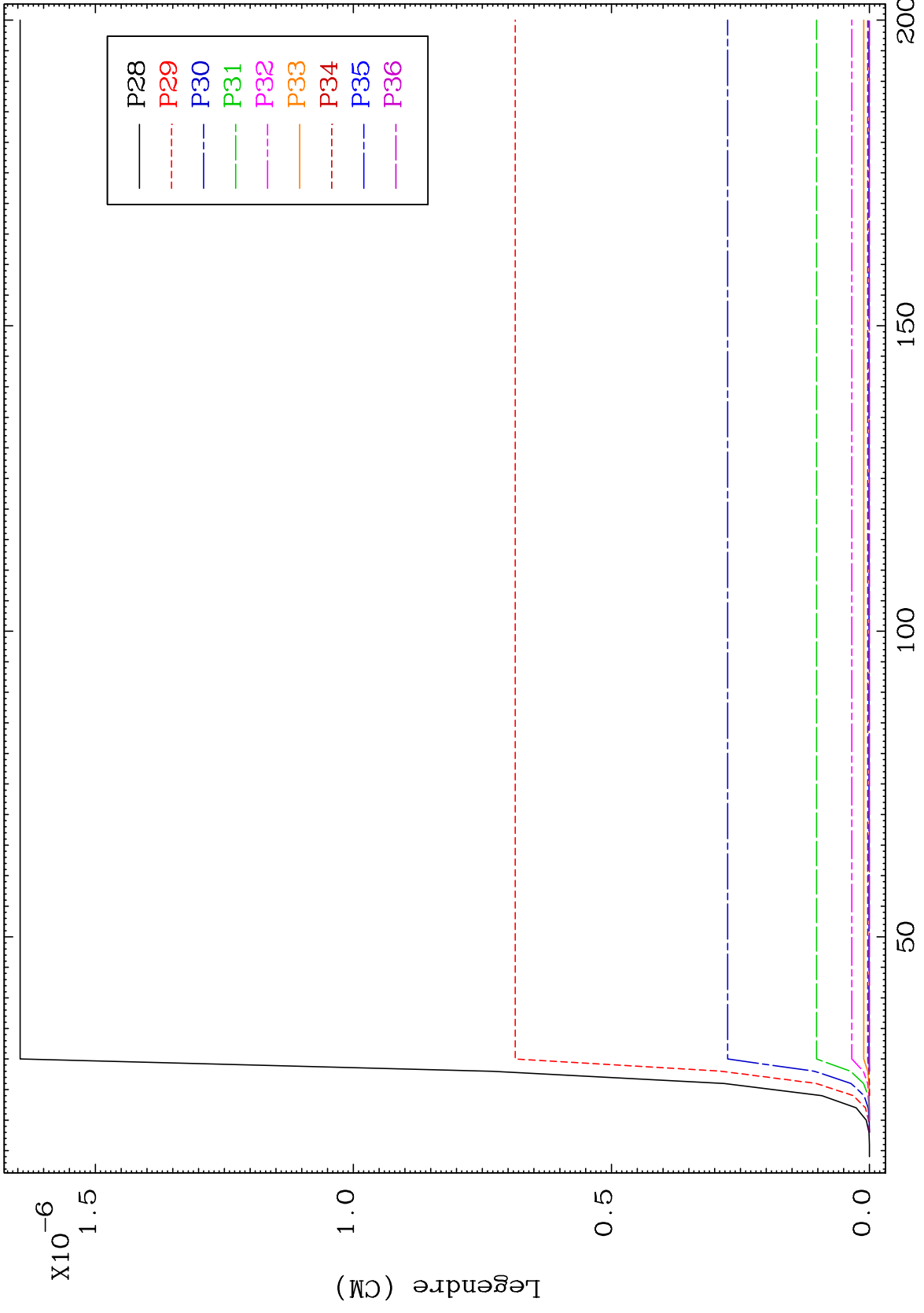
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



96

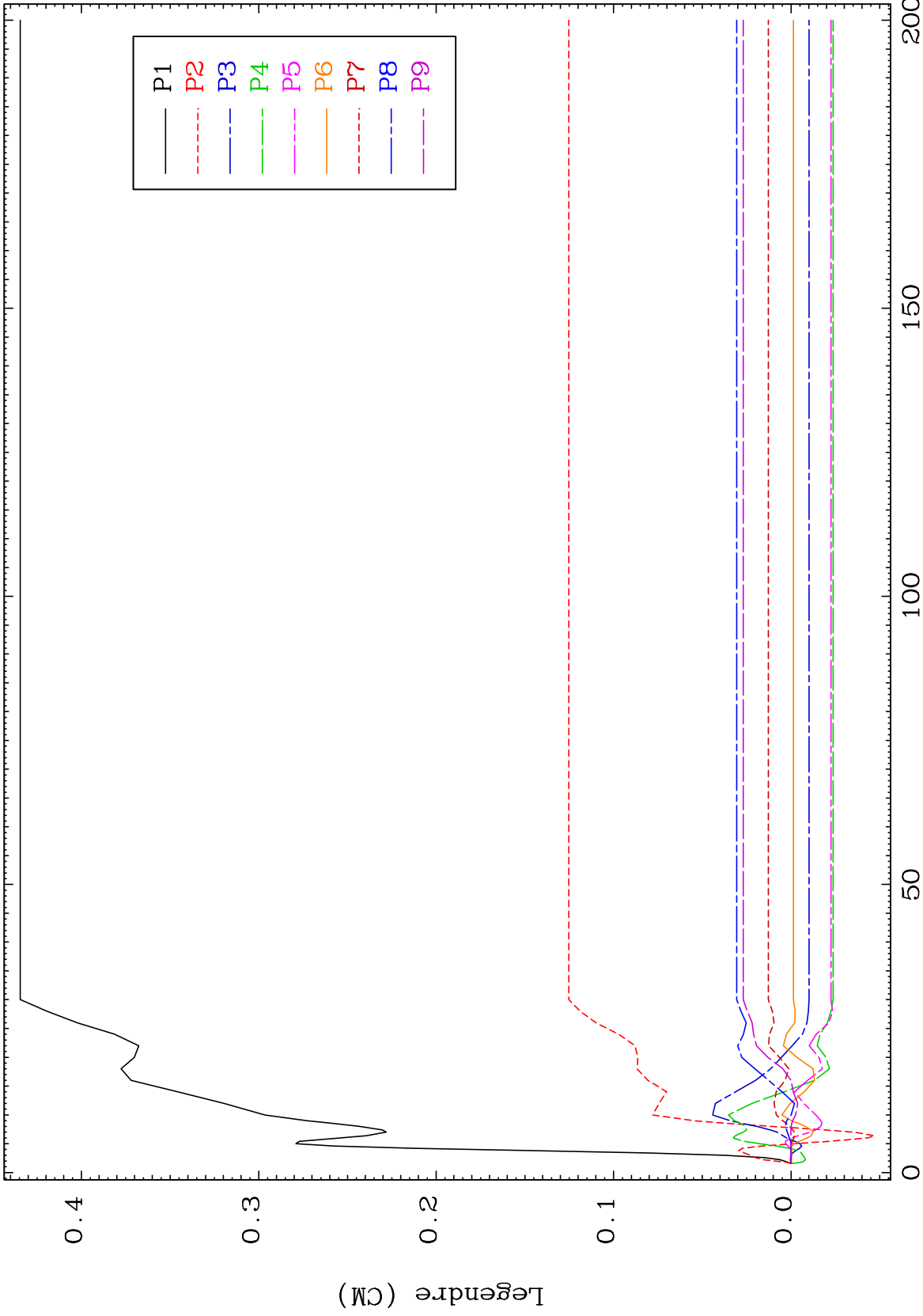
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



97

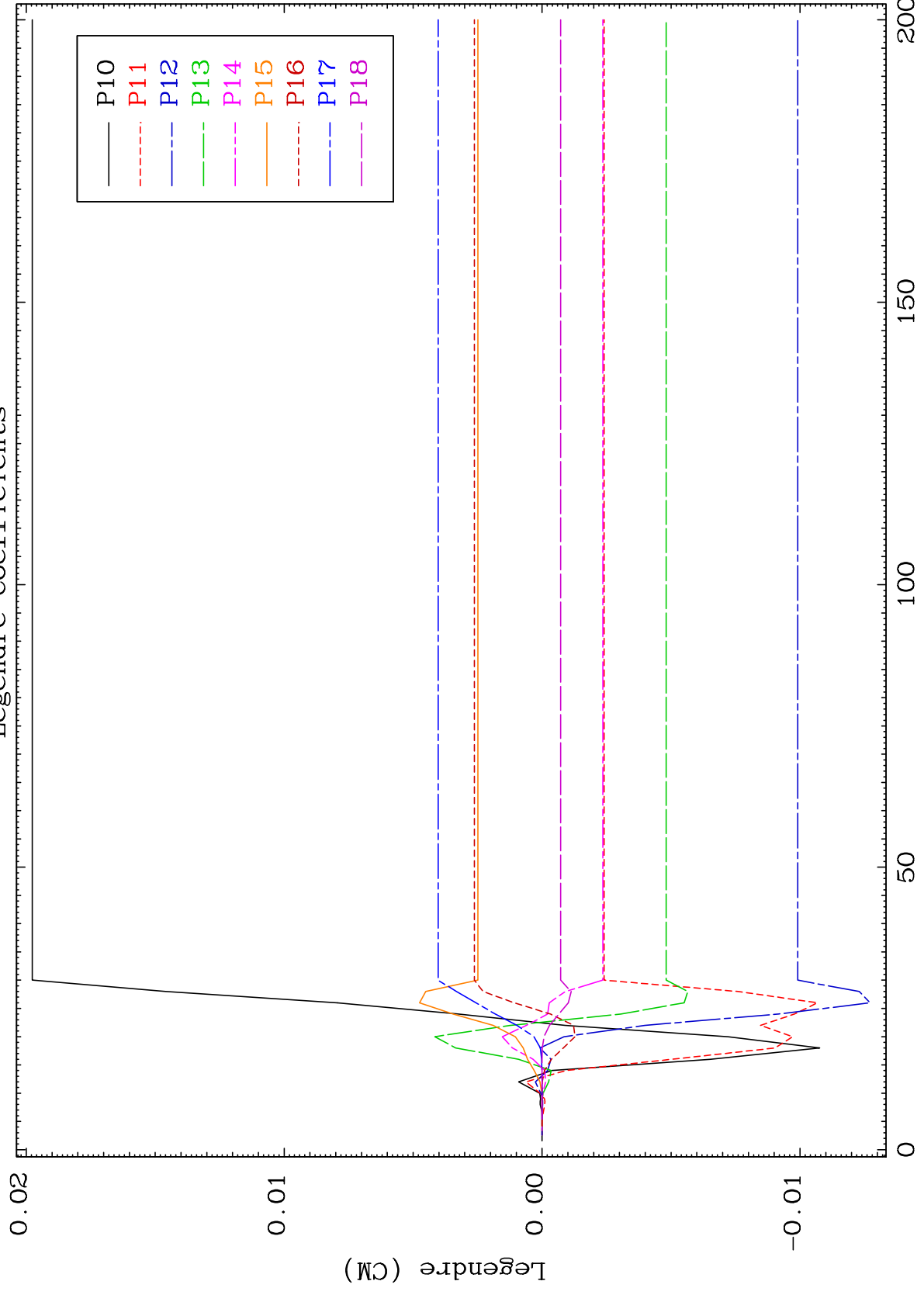
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



98

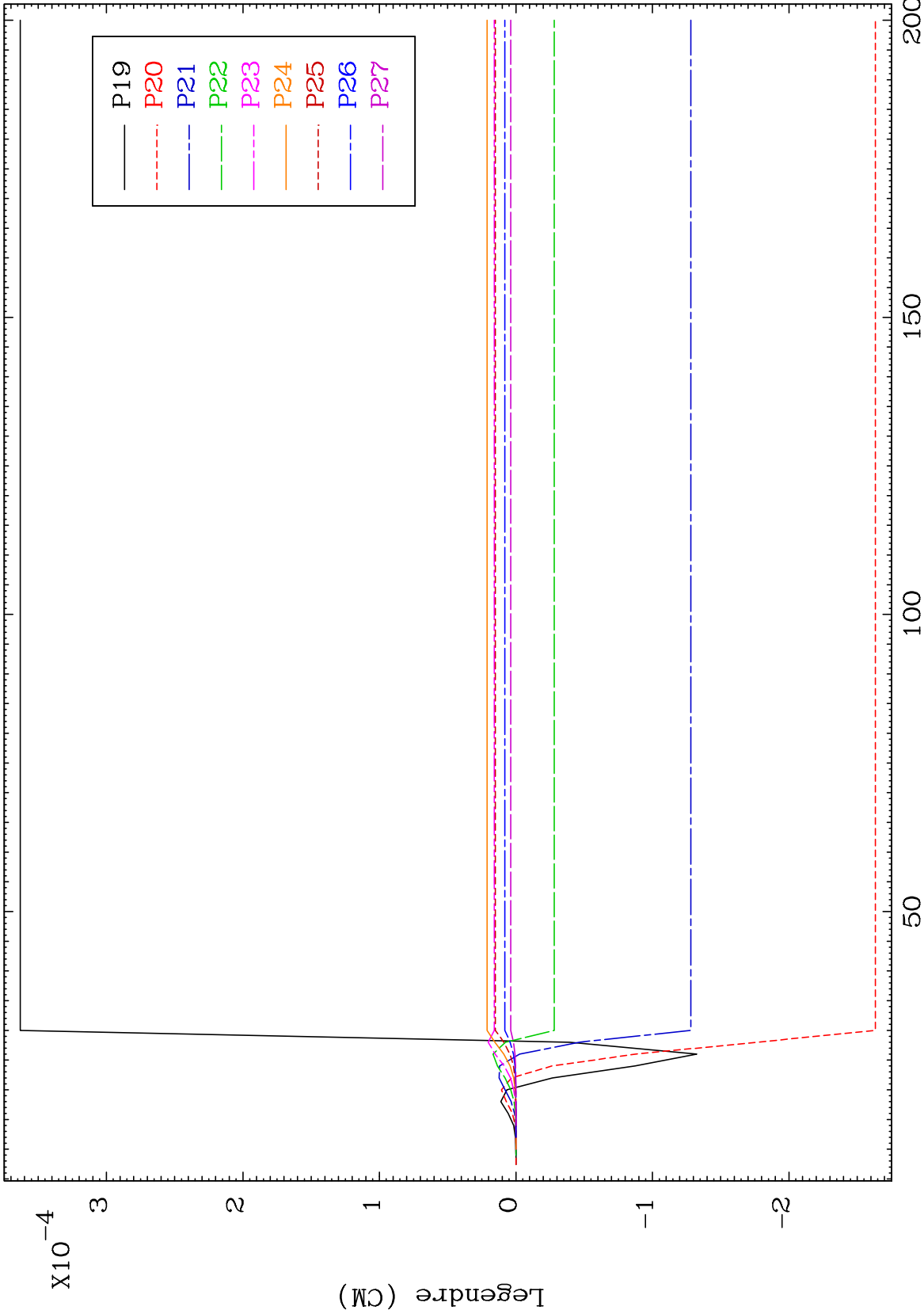
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



99

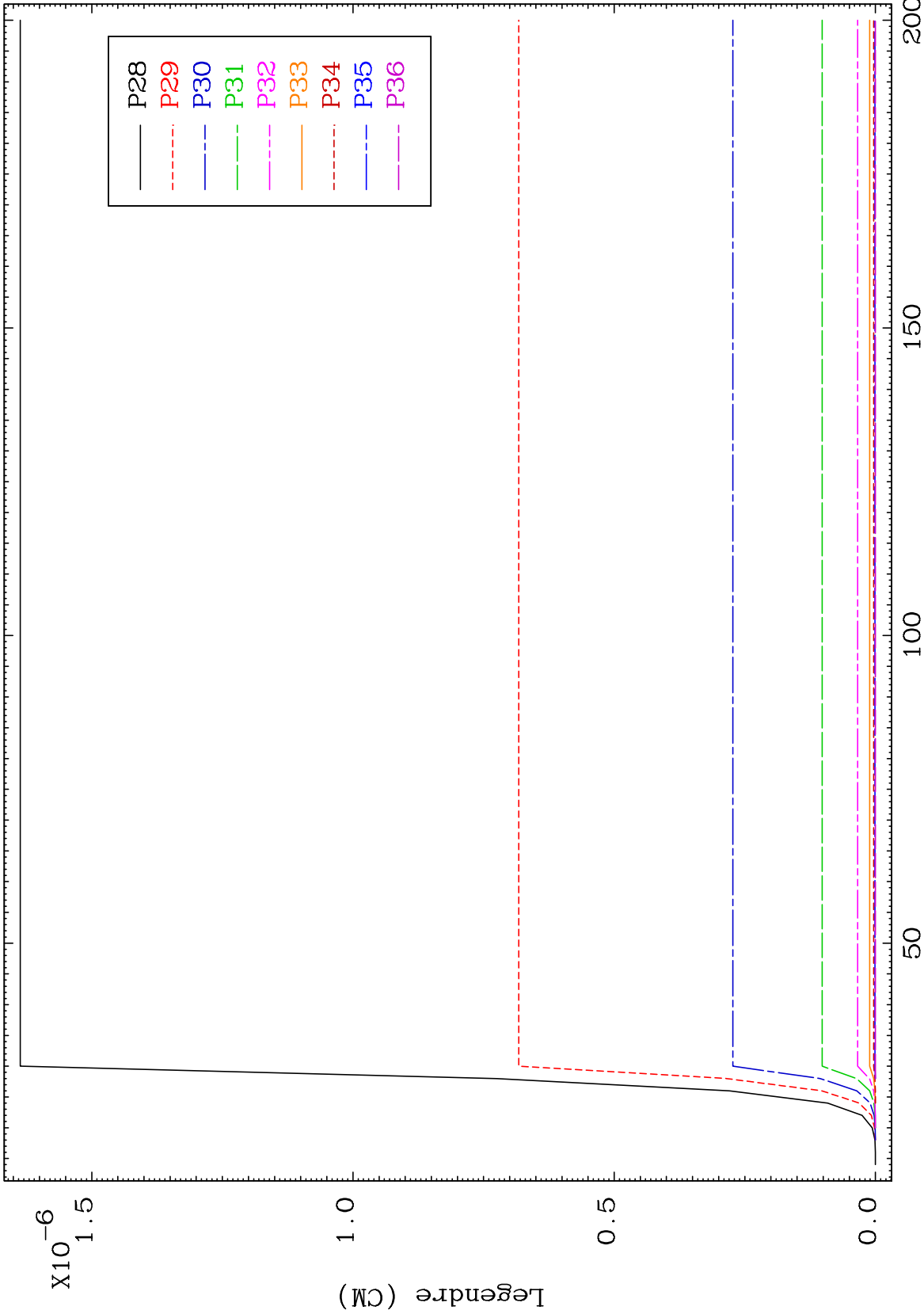
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



100

50

100

150

200

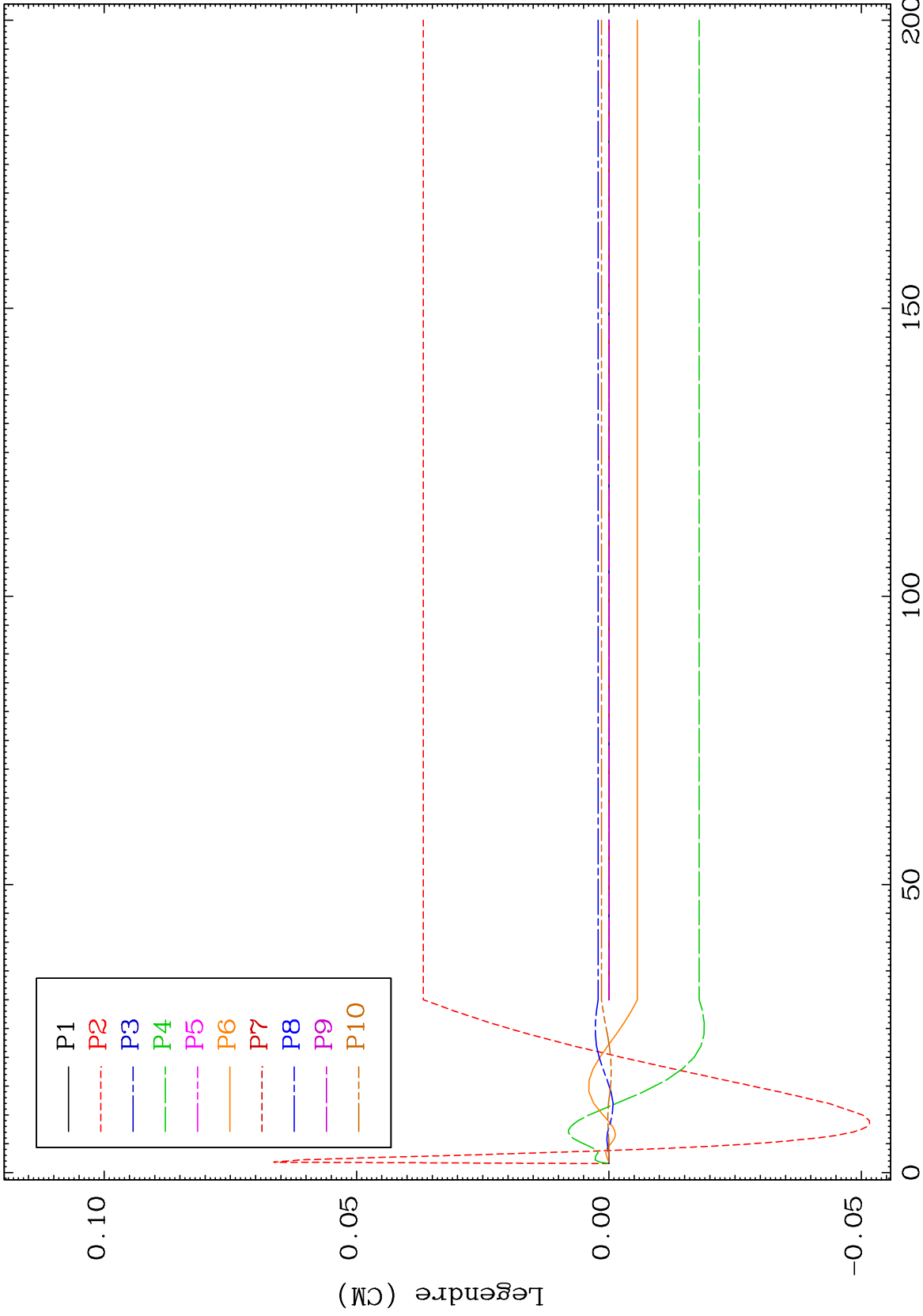
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



101

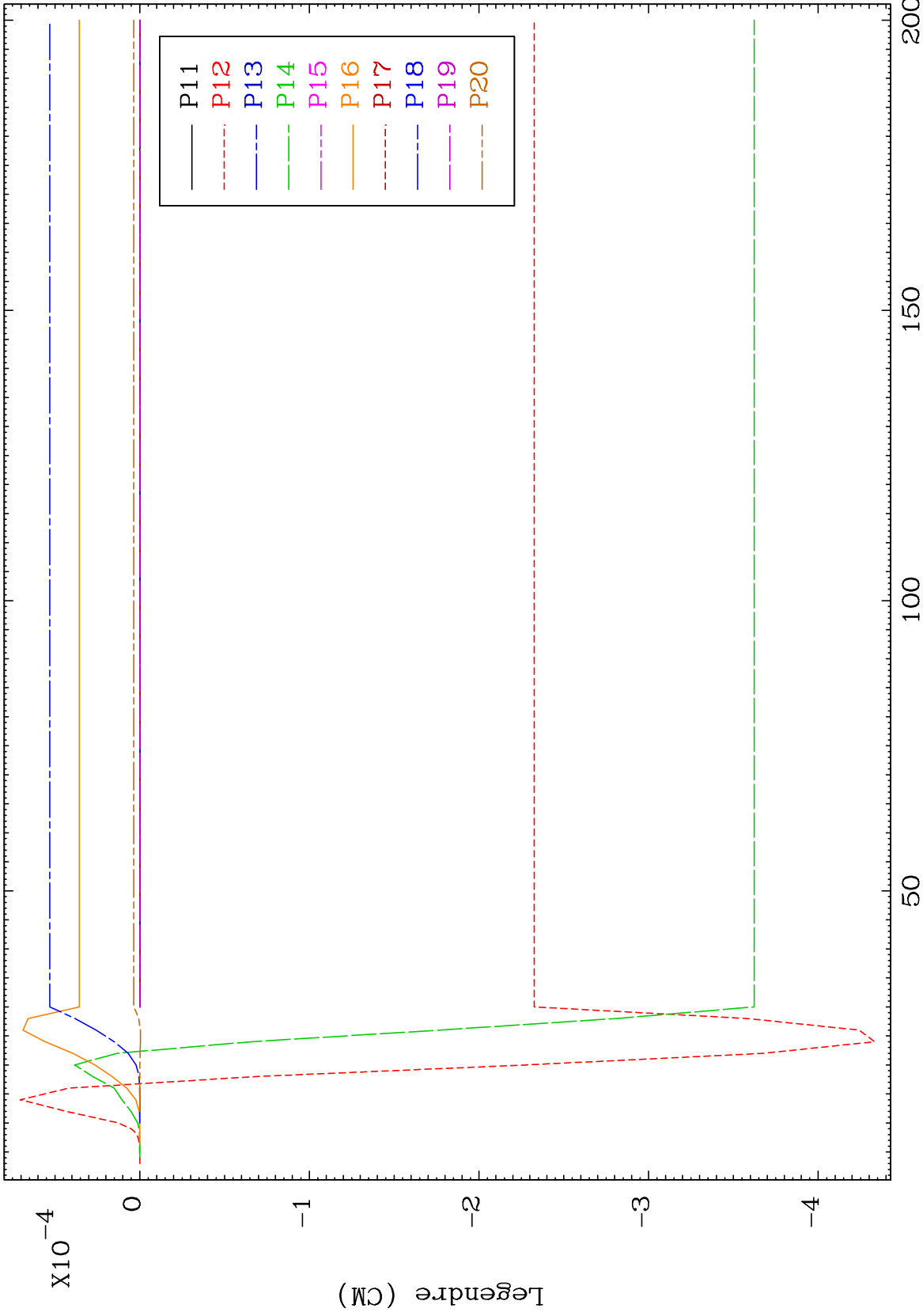
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172

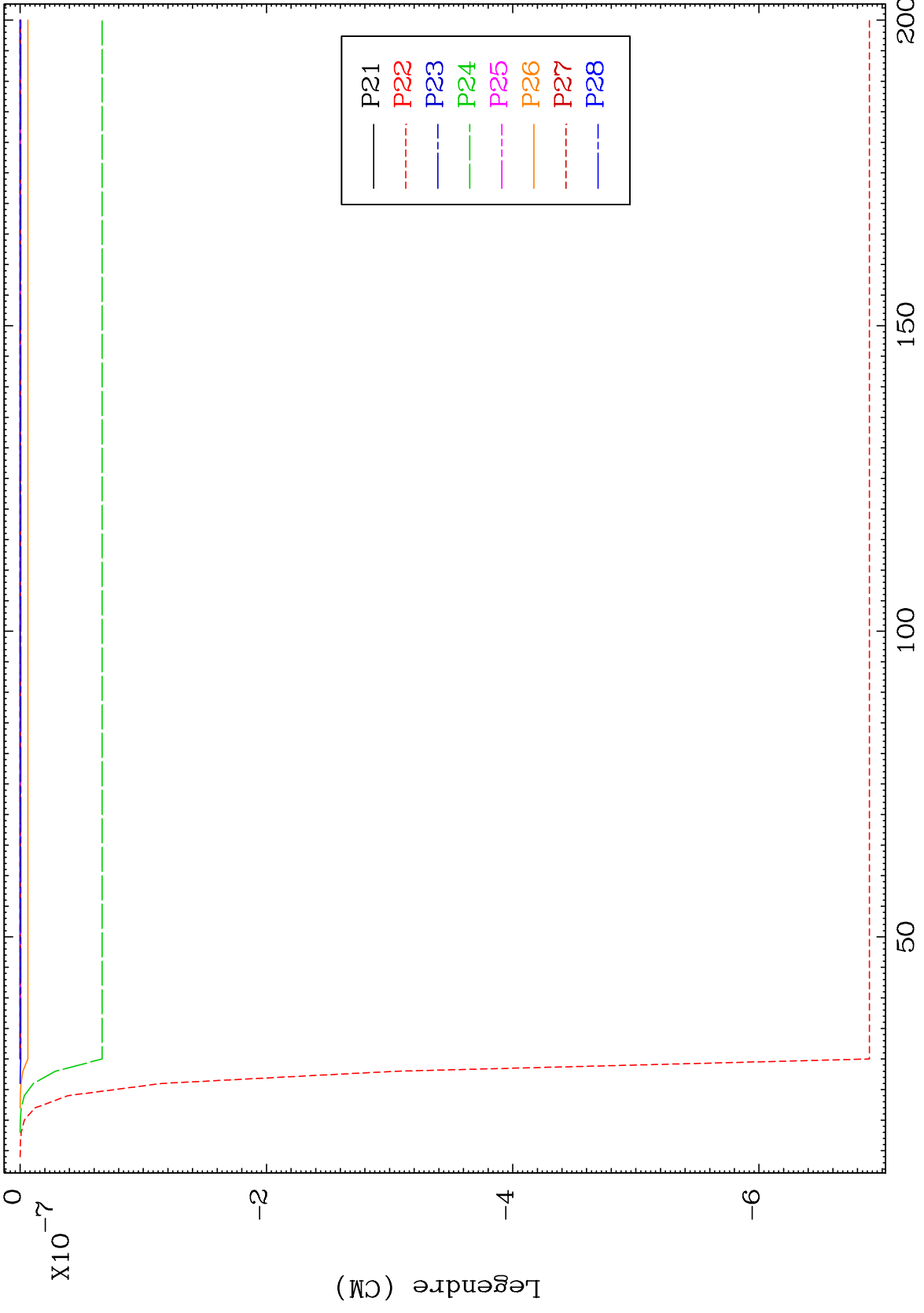


102

Incident Energy (MeV)

70-Yb-172

MAT 7037 MT= 73 (n,n') Level Legendre Coefficients 70-Yb-172

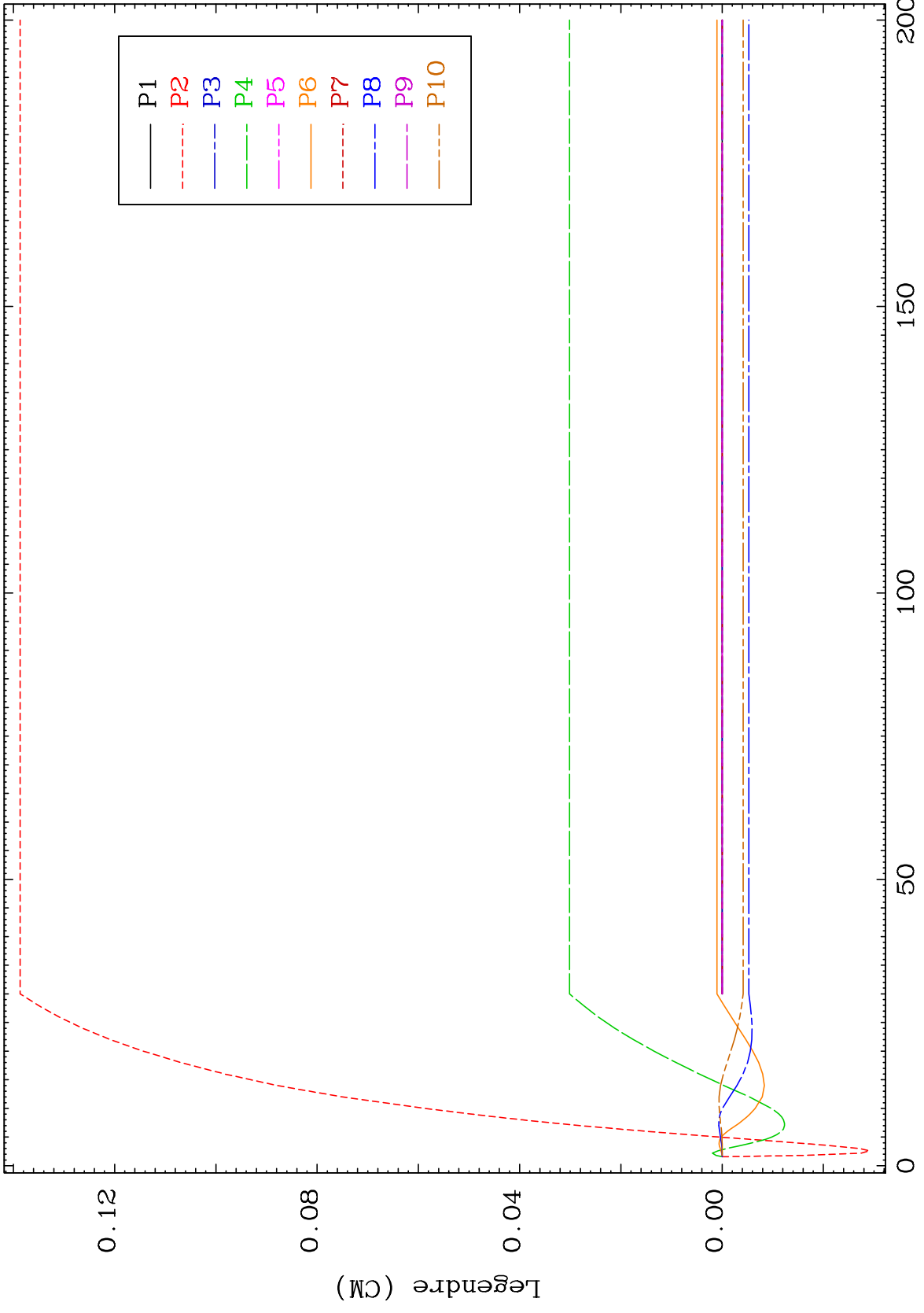


103 70-Yb-172

MAT 7037

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

70-Yb-172



70-Yb-172

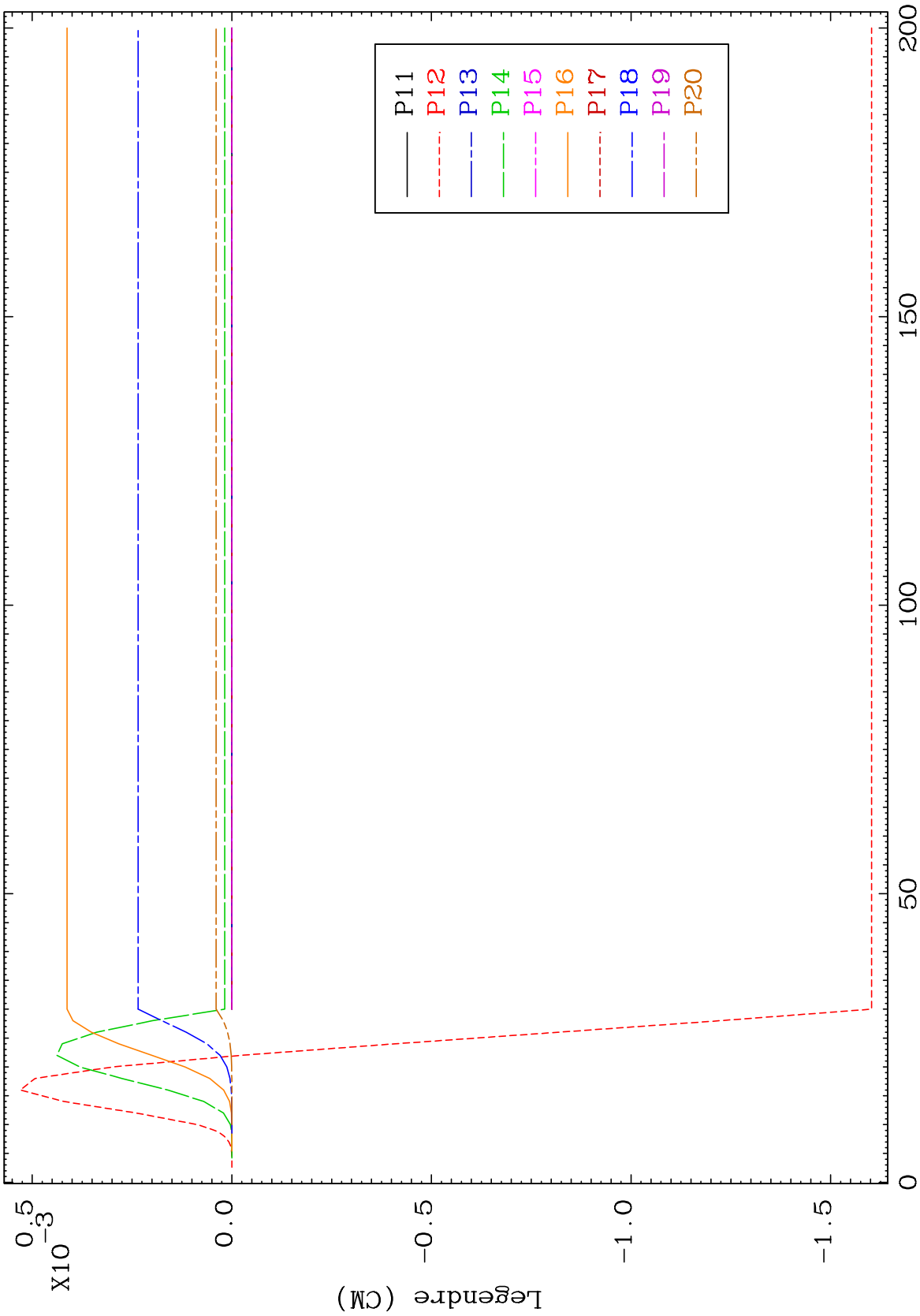
Incident Energy (MeV)

104

MAT 7037

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

70-Yb-172

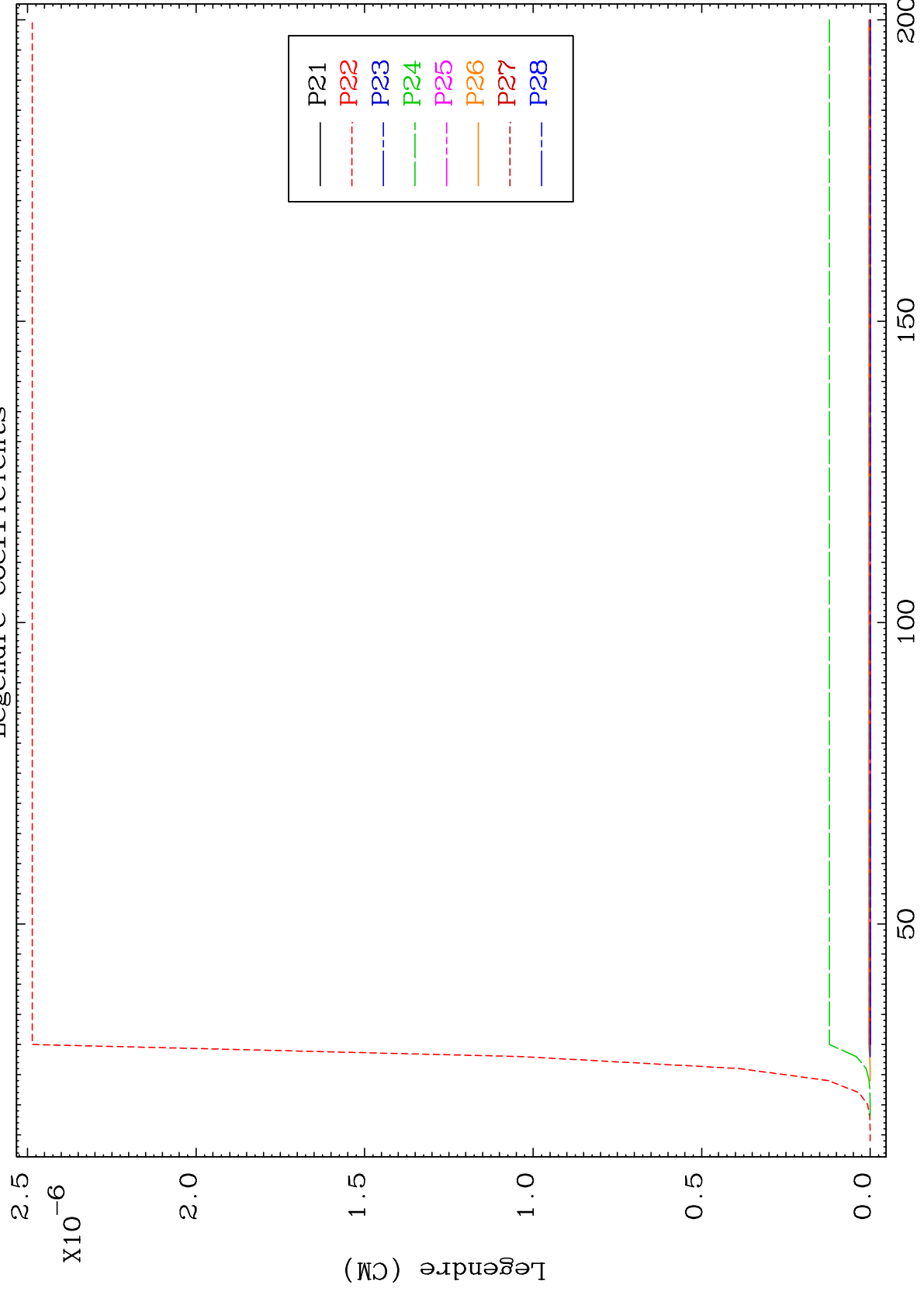


105

Incident Energy (MeV)

70-Yb-172

MAT 7037 MT= 74 (n,n') Level Legendre Coefficients 70-Yb-172

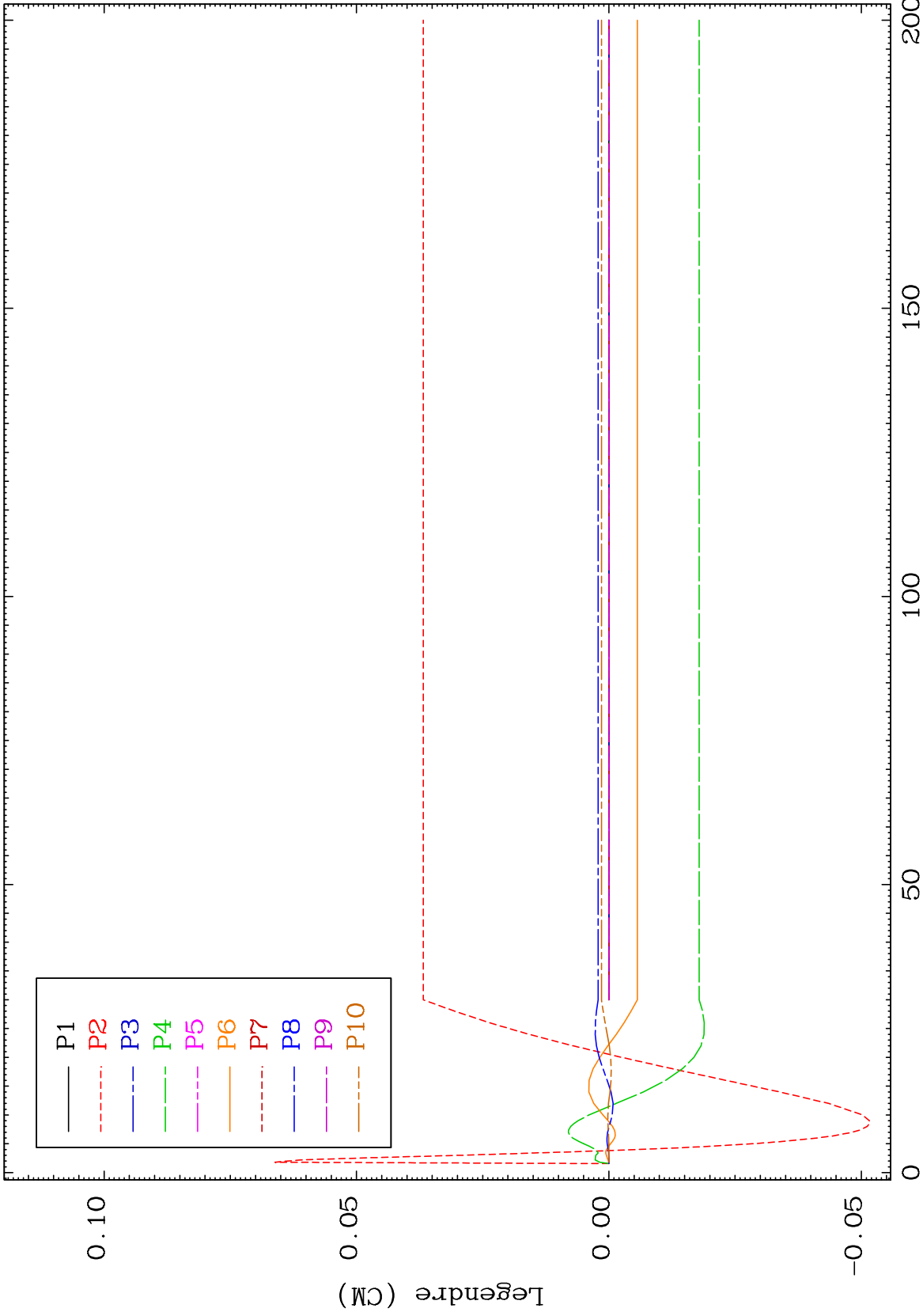


106 Incident Energy (MeV) 70-Yb-172

MAT 7037

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

70-Yb-172



107

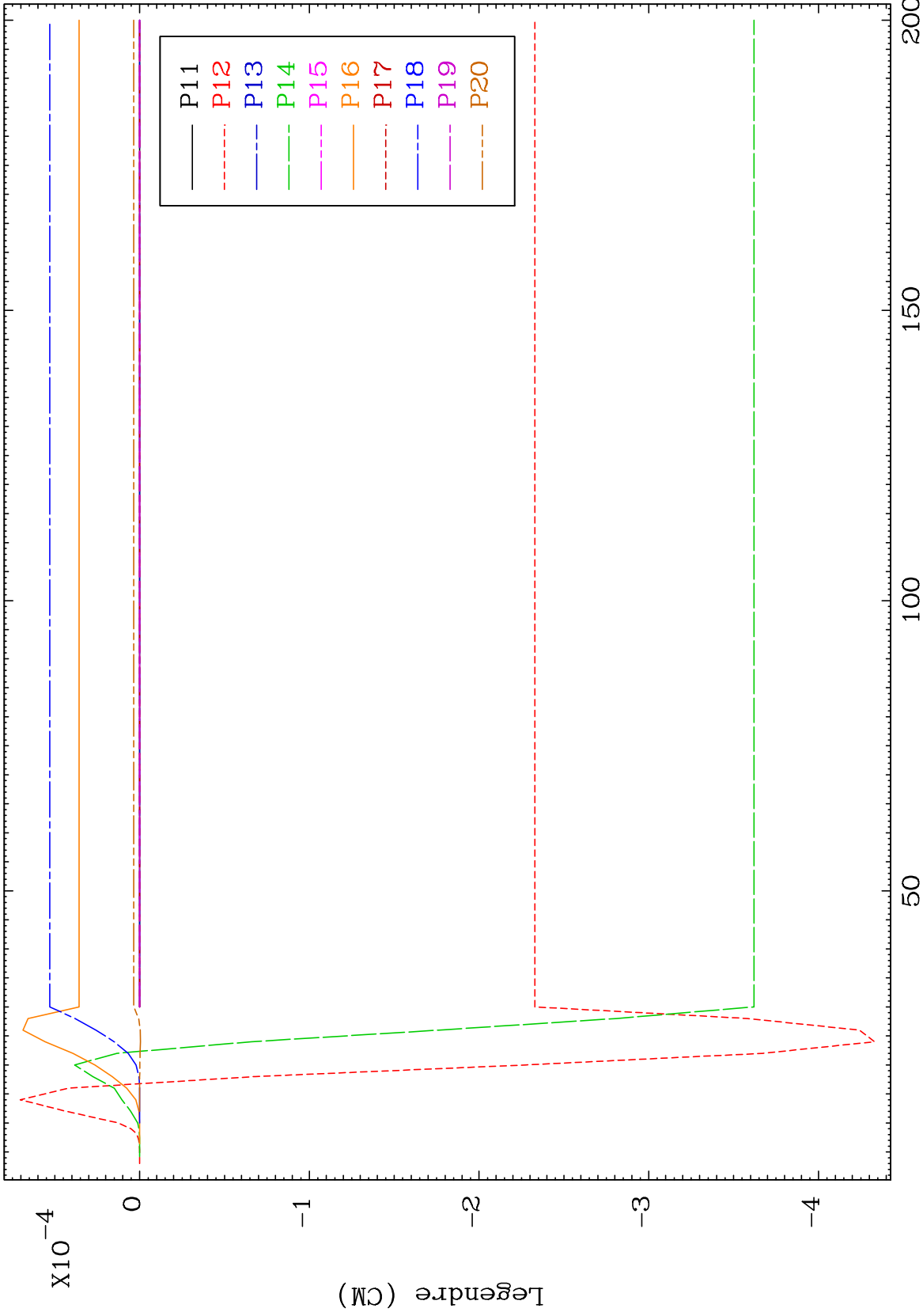
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172

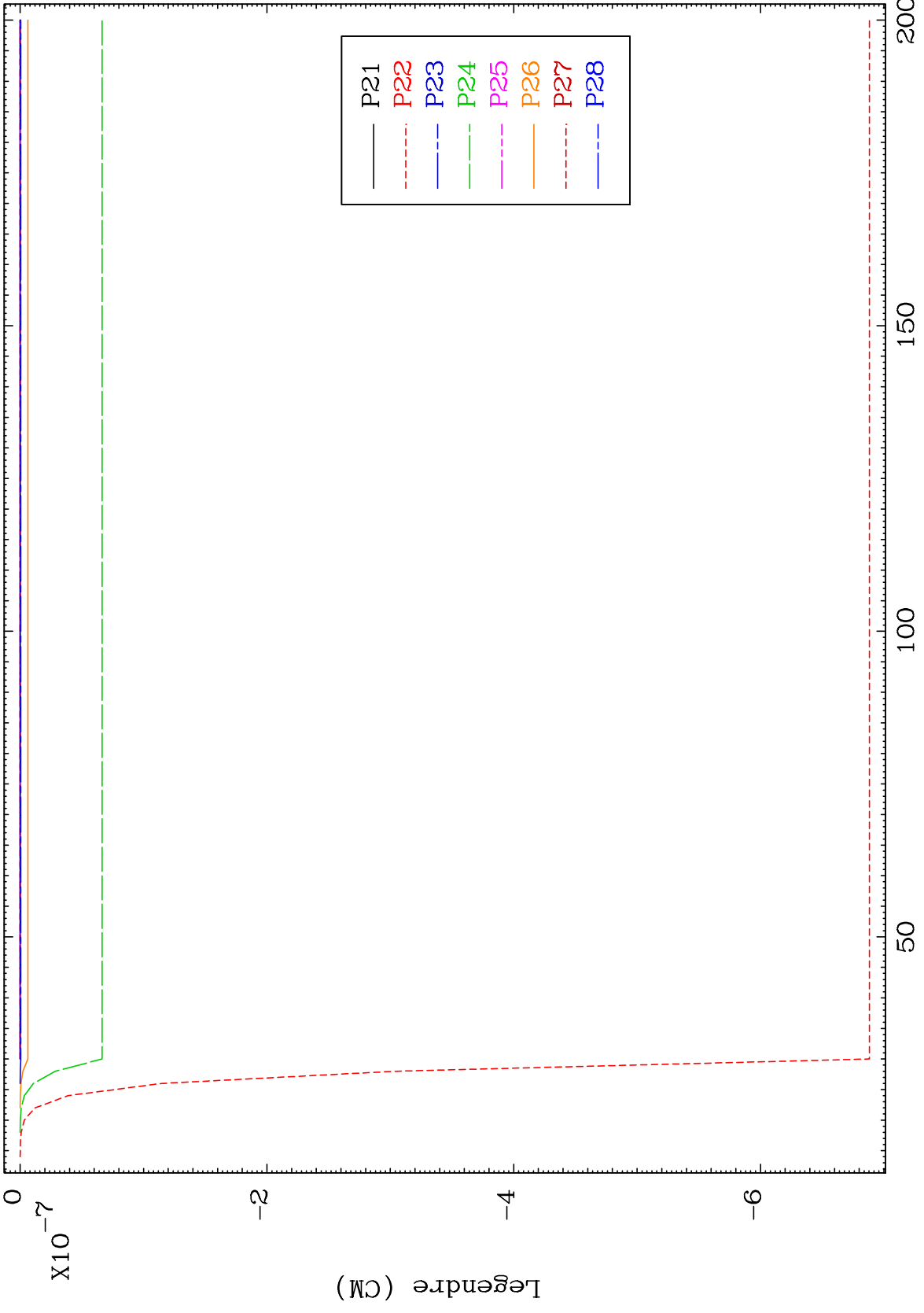


108

Incident Energy (MeV)

70-Yb-172

MAT 7037 MT= 75 (n,n') Level Legendre Coefficients 70-Yb-172

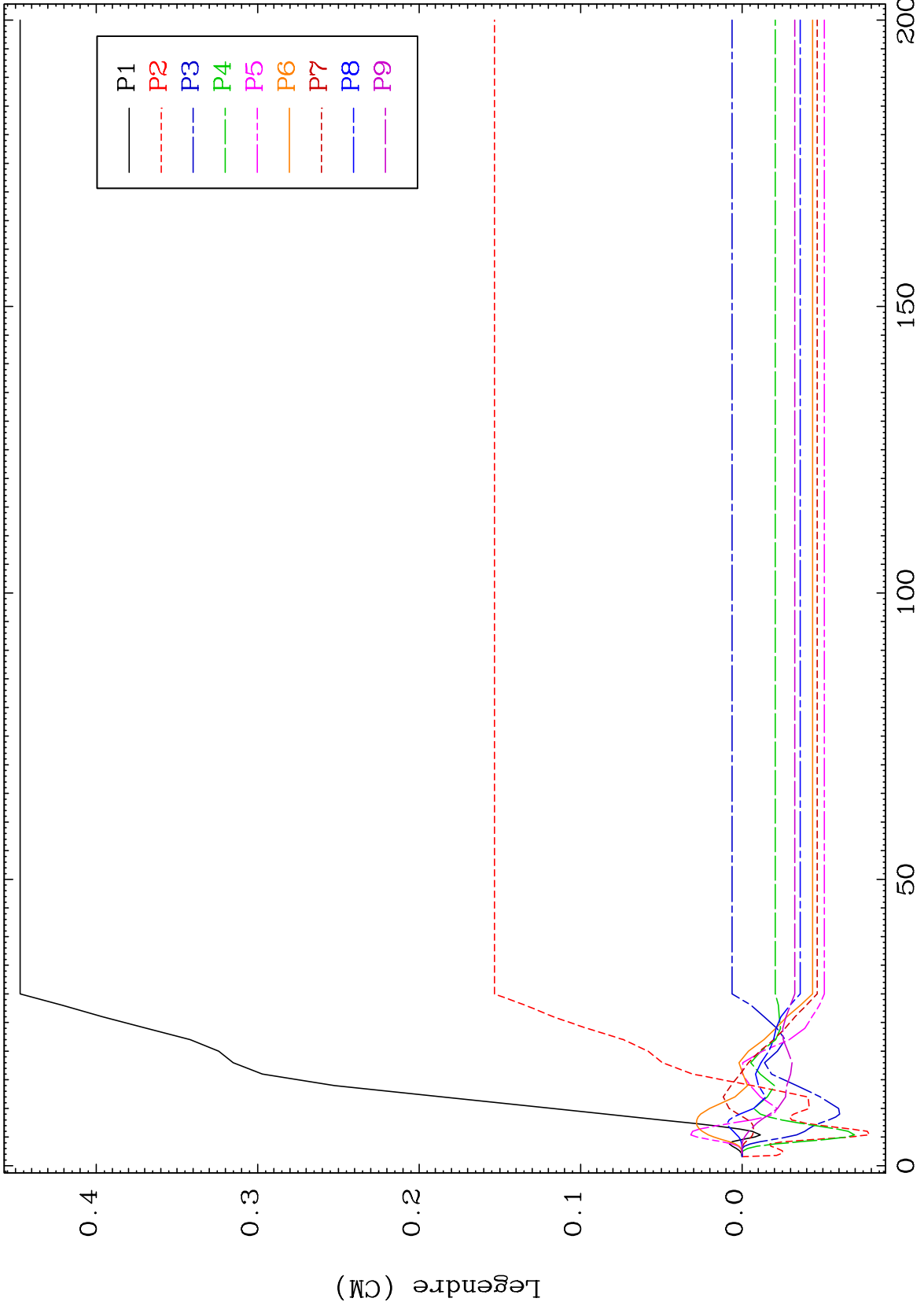


109 70-Yb-172

MAT 7037

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

70-Yb-172



70-Yb-172

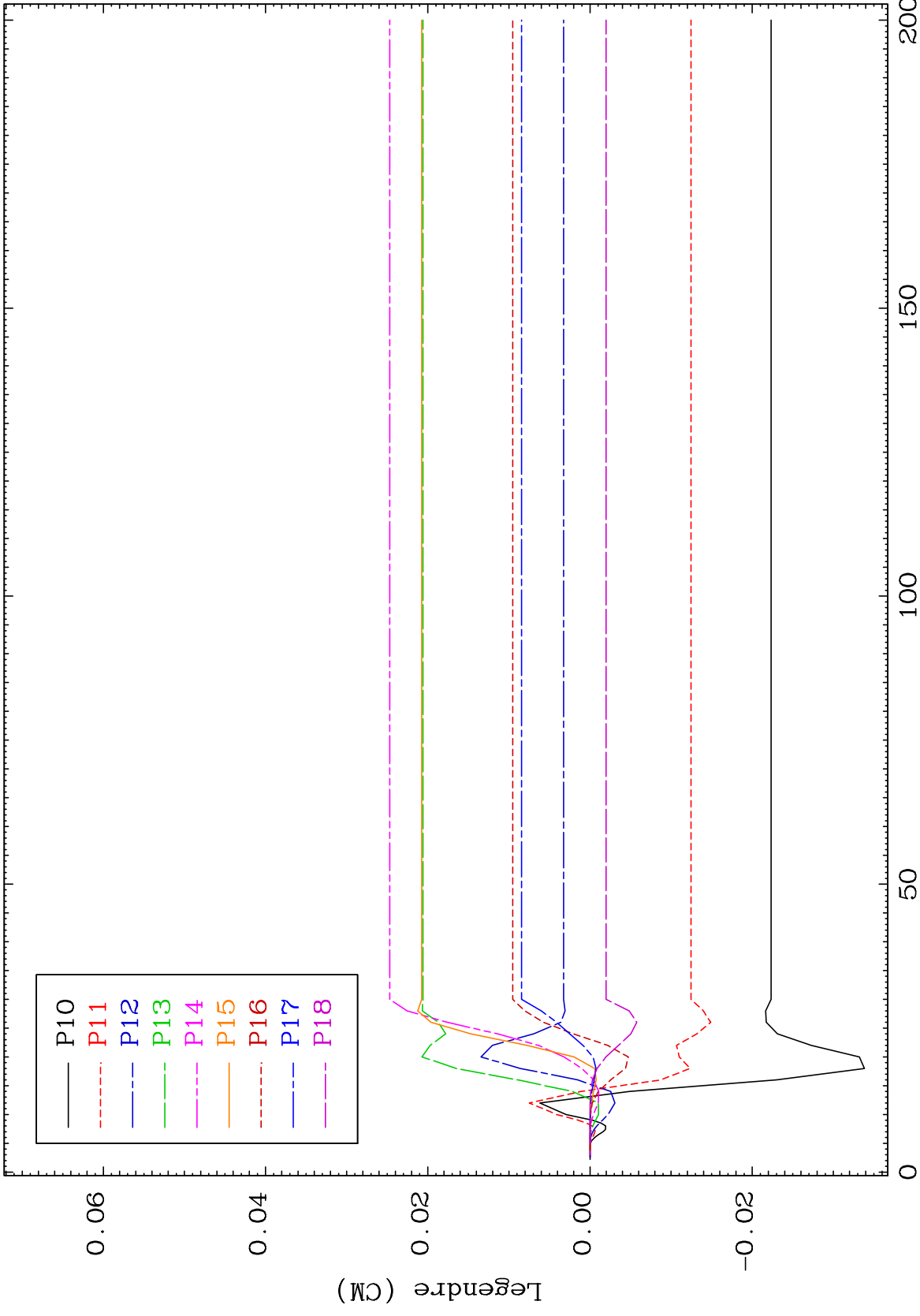
Incident Energy (MeV)

110

MAT 7037

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

70-Yb-172



111

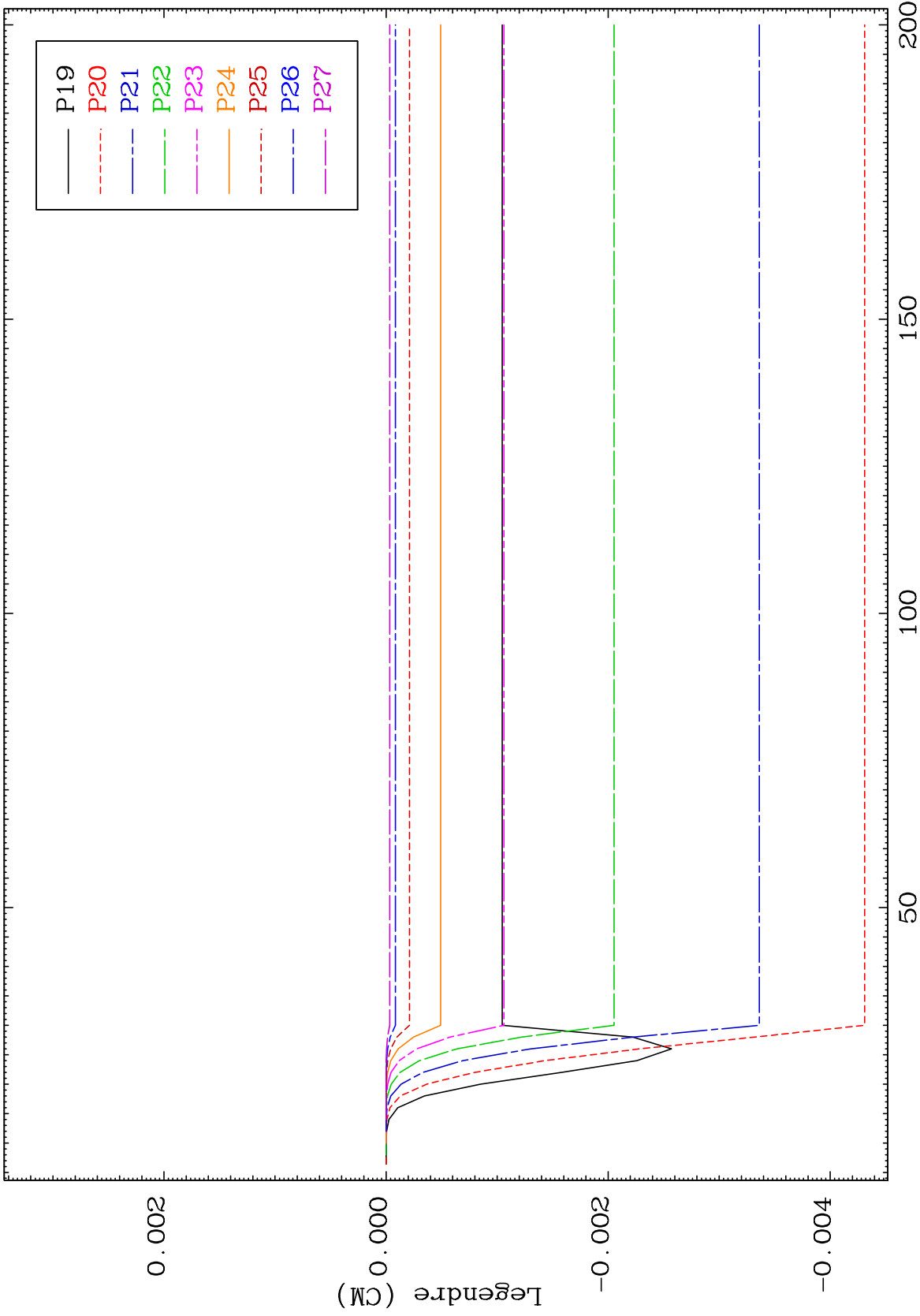
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172

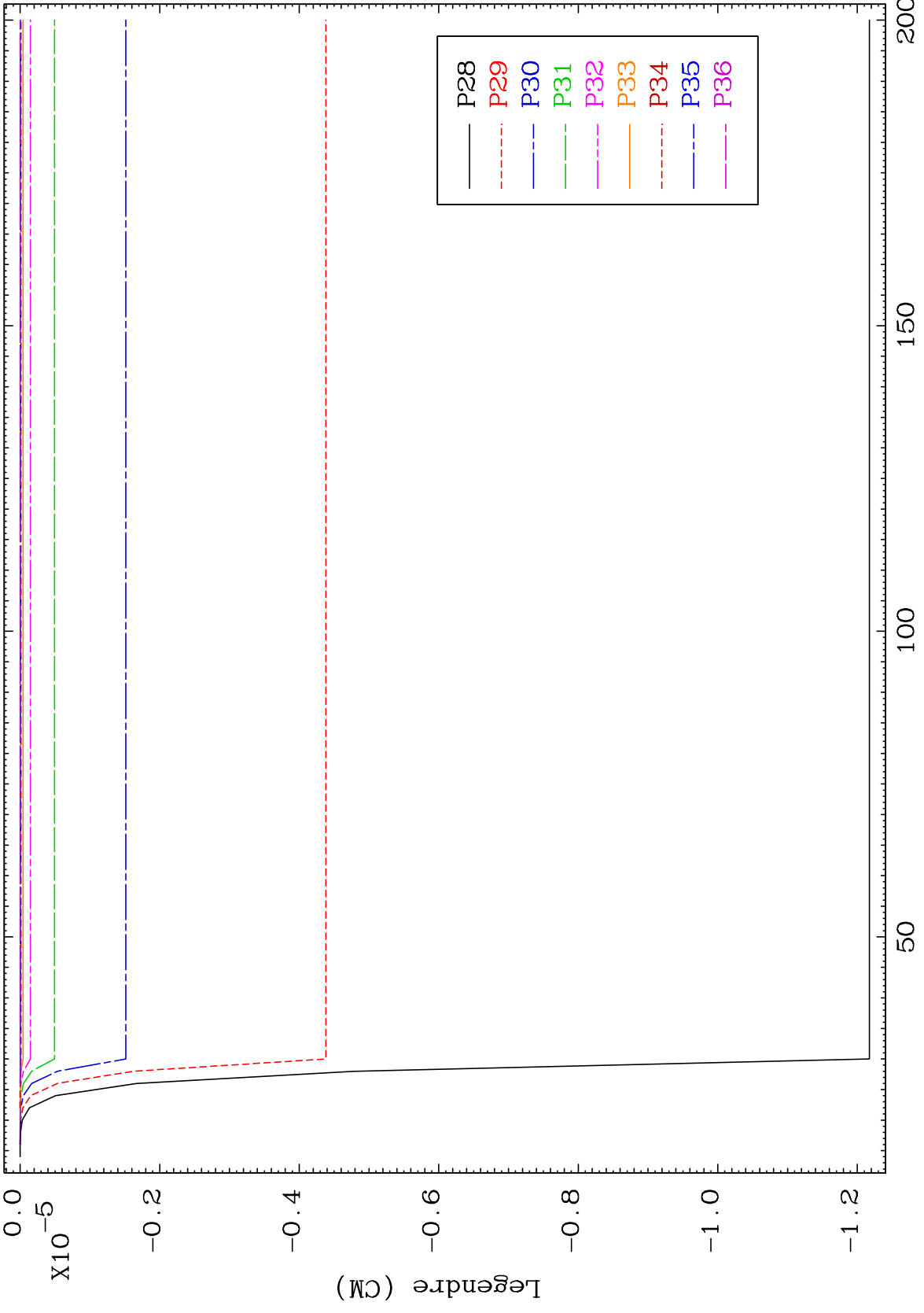


112

Incident Energy (MeV)

70-Yb-172

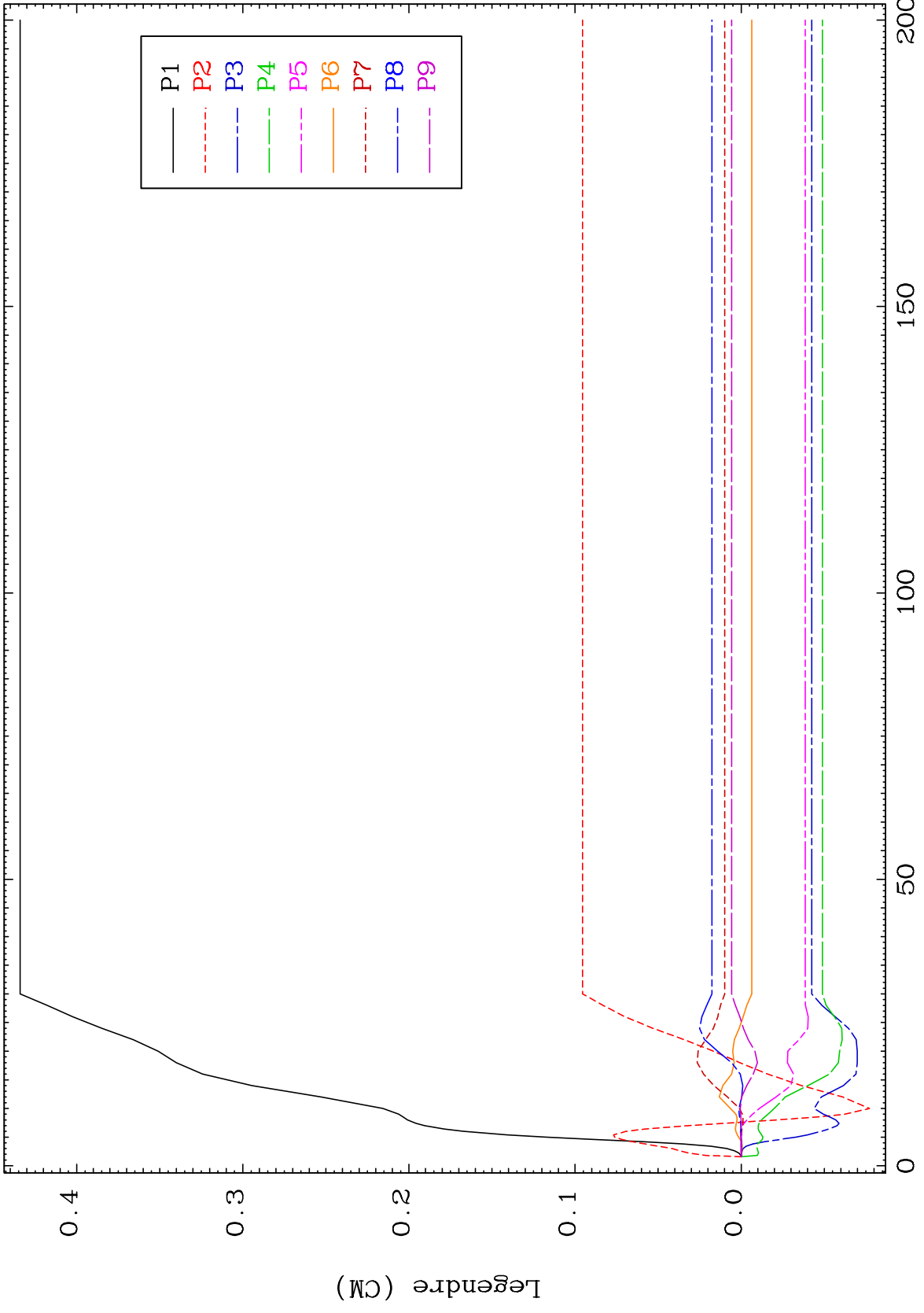
MAT 7037 MT= 76 (n,n') Level Legendre Coefficients 70-Yb-172



MAT 7037

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

70-Yb-172



114

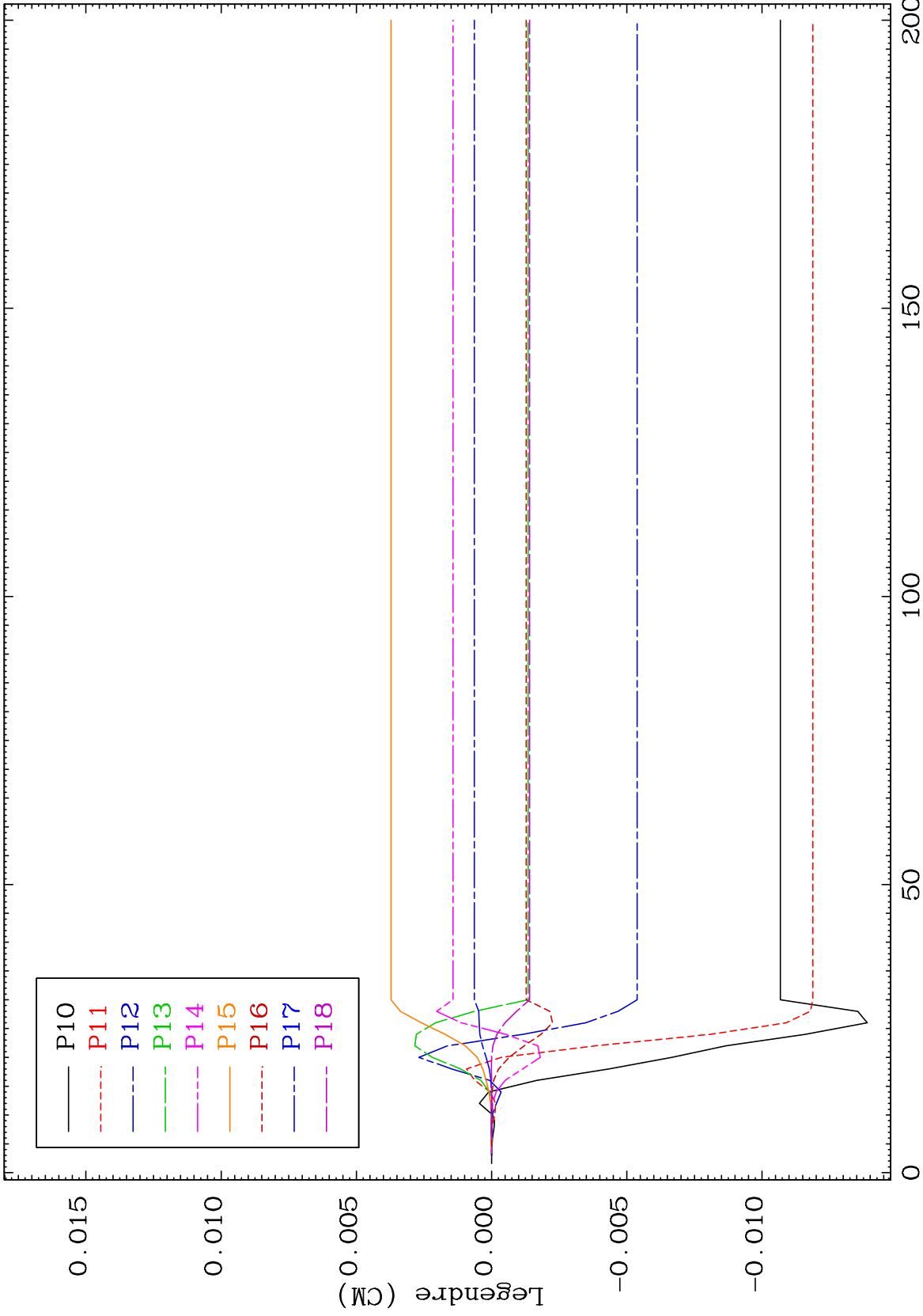
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



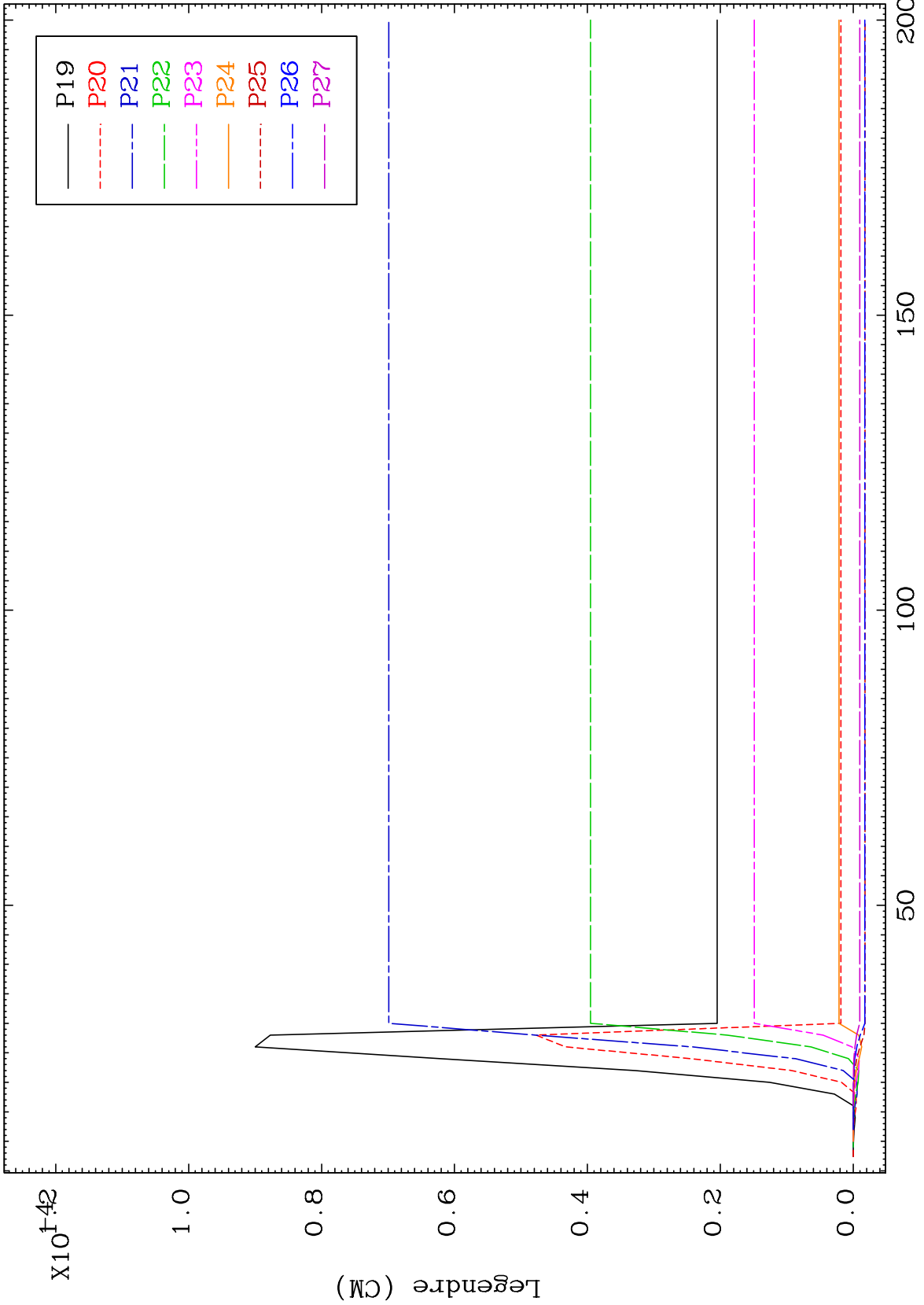
115

70-Yb-172

MAT 7037

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

70-Yb-172



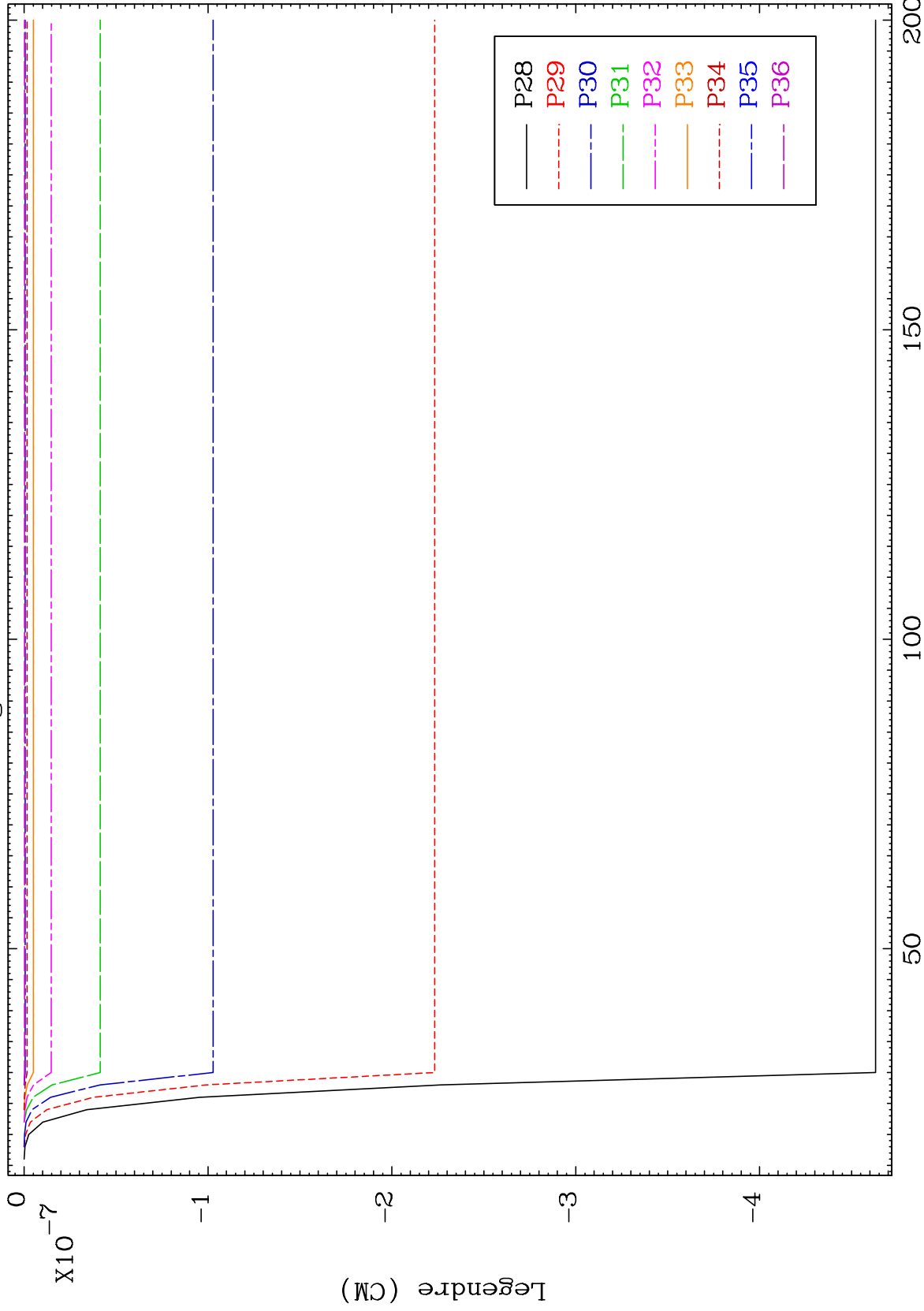
116

70-Yb-172

MAT 7037

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

70-Yb-172



117

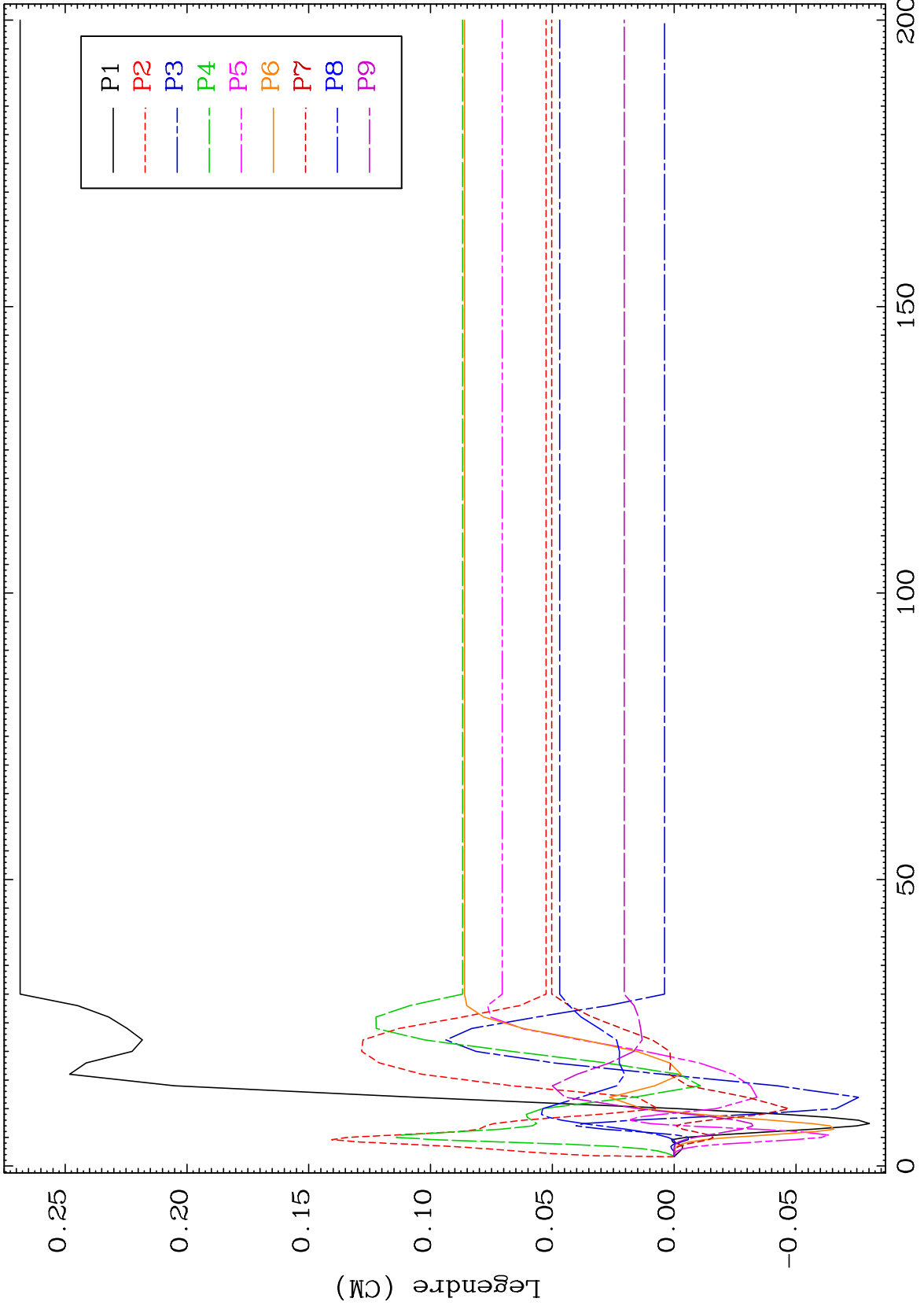
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



118

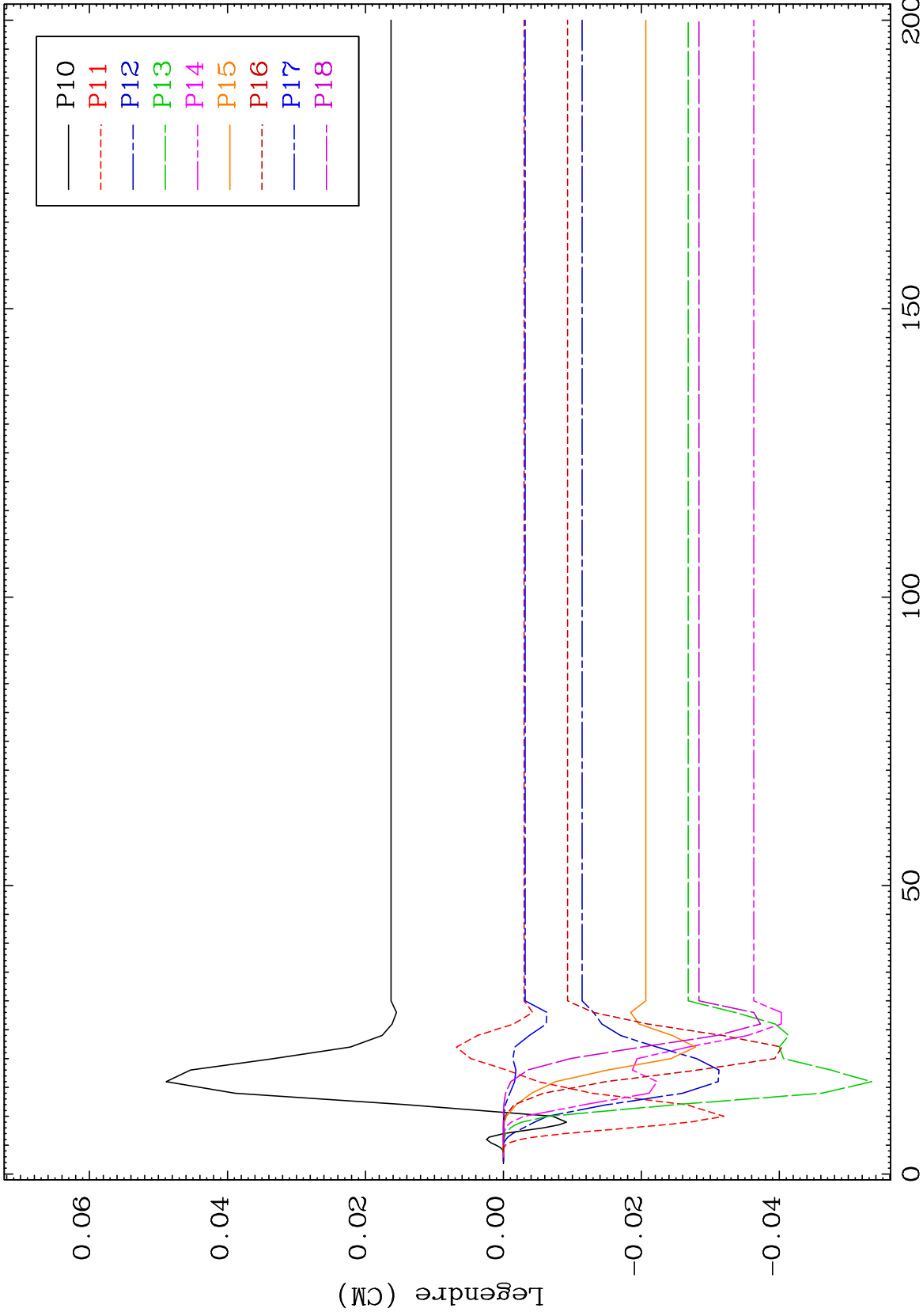
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



119

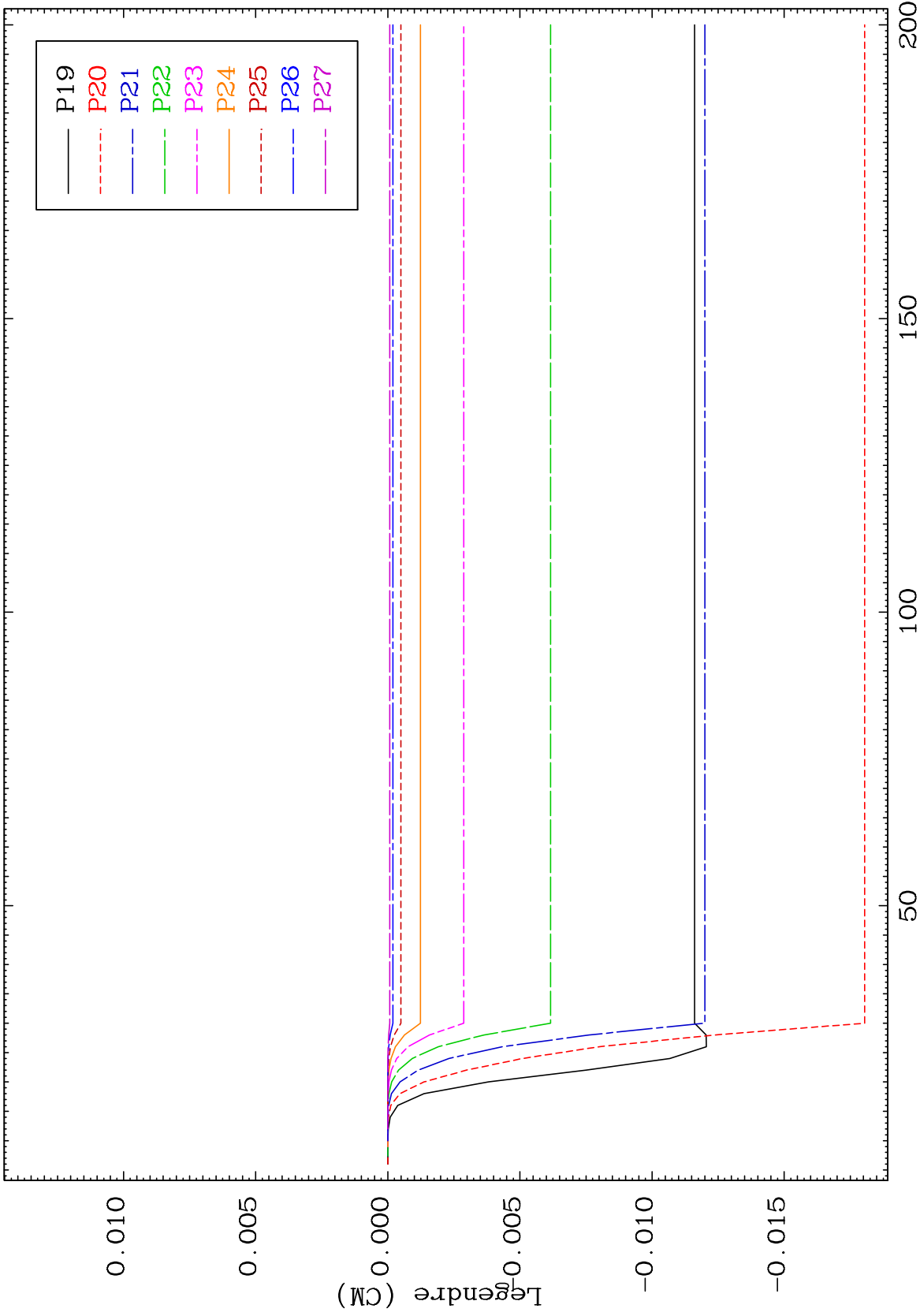
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172

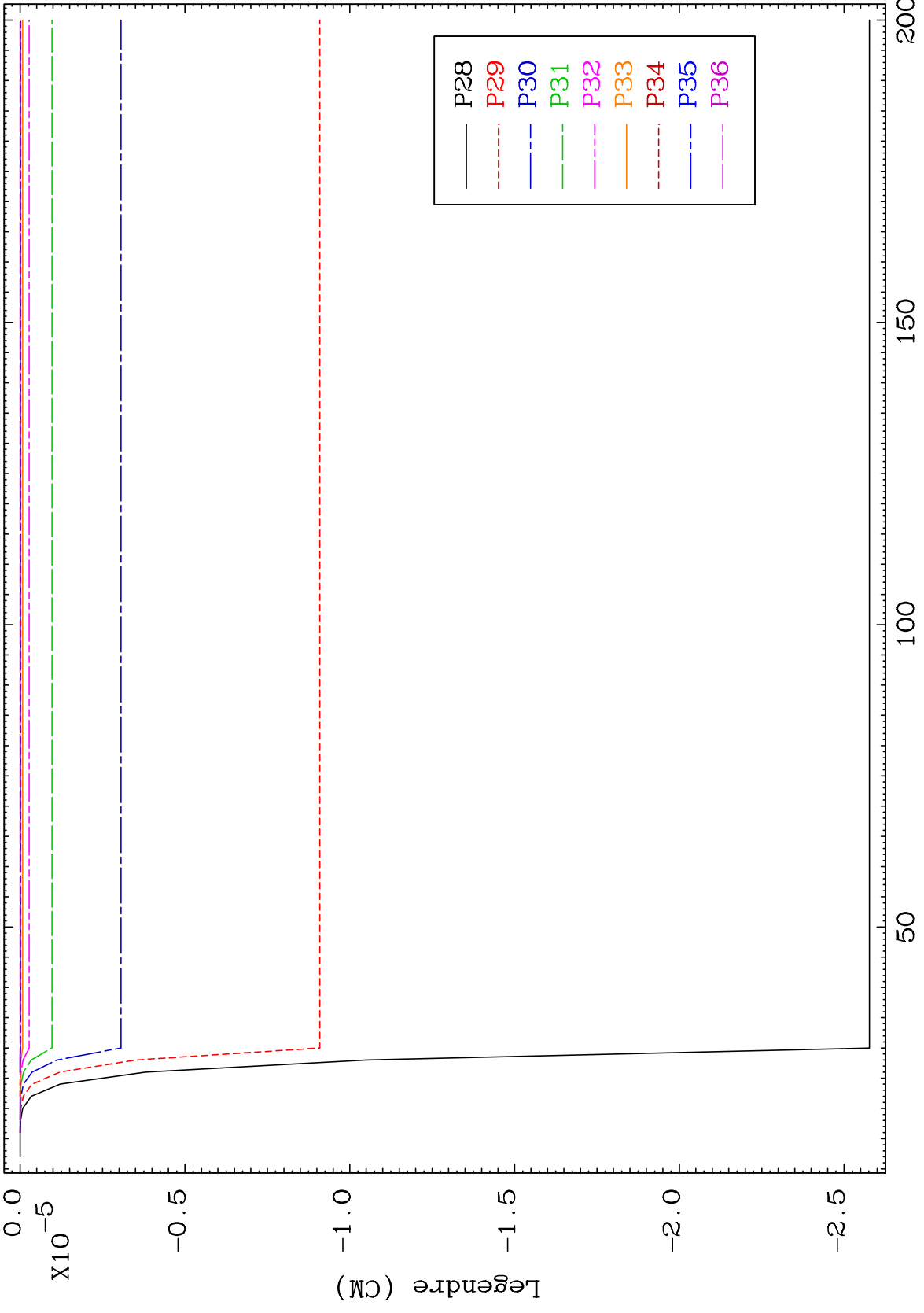


120

Incident Energy (MeV)

70-Yb-172

MAT 7037 MT= 78 (n,n') Level Legendre Coefficients 70-Yb-172

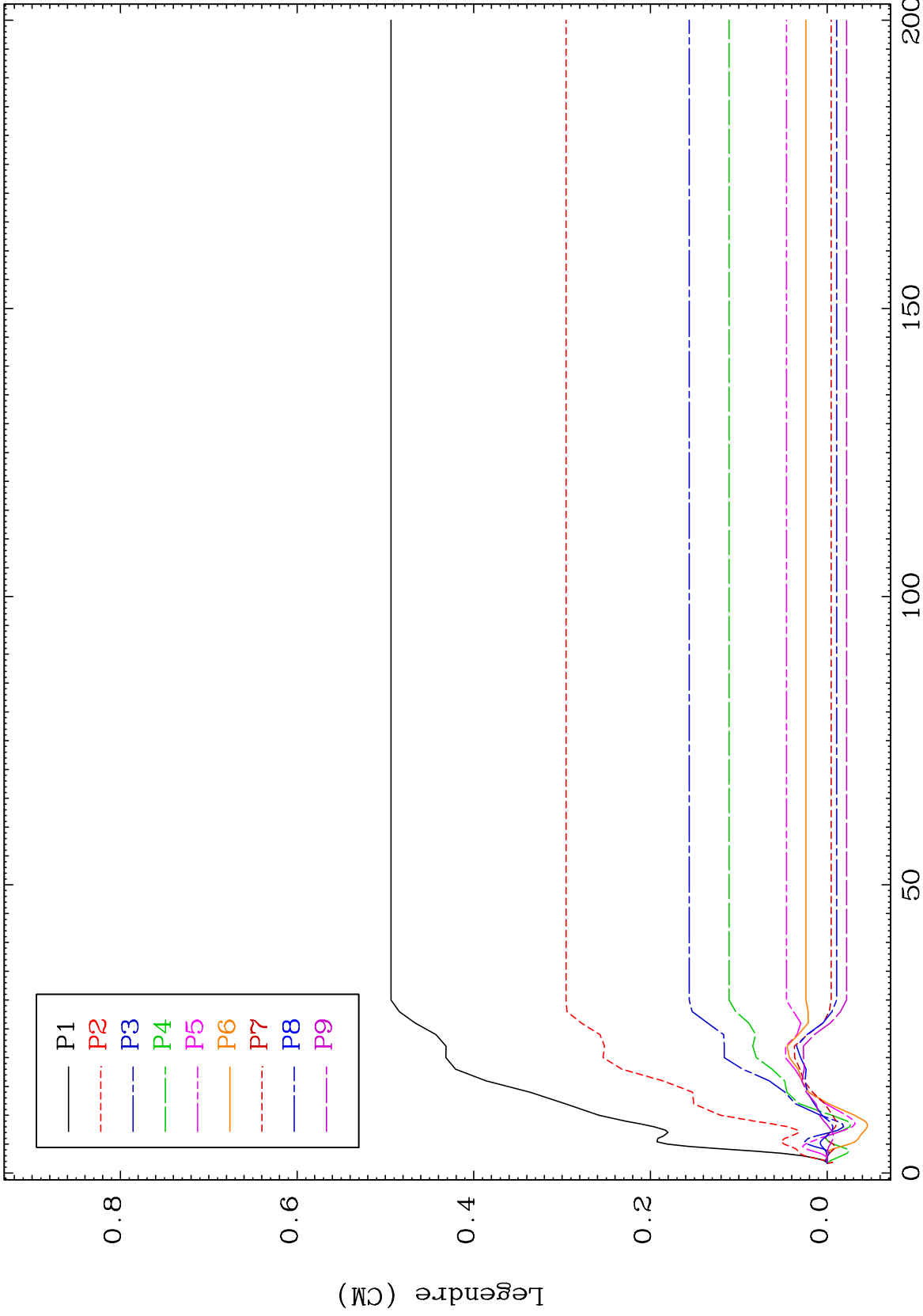


121 70-Yb-172

MAT 7037

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

70-Yb-172



122

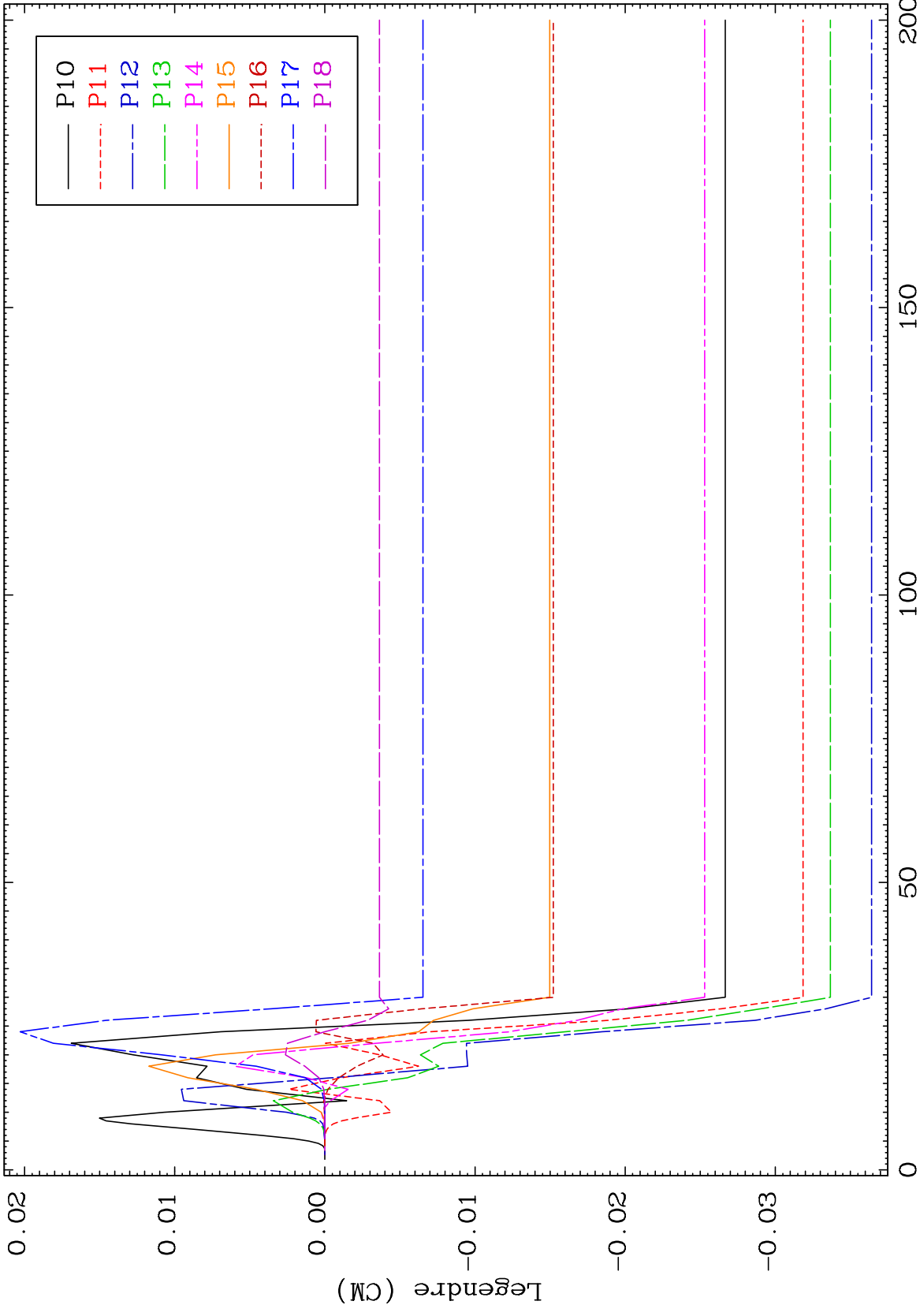
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



123

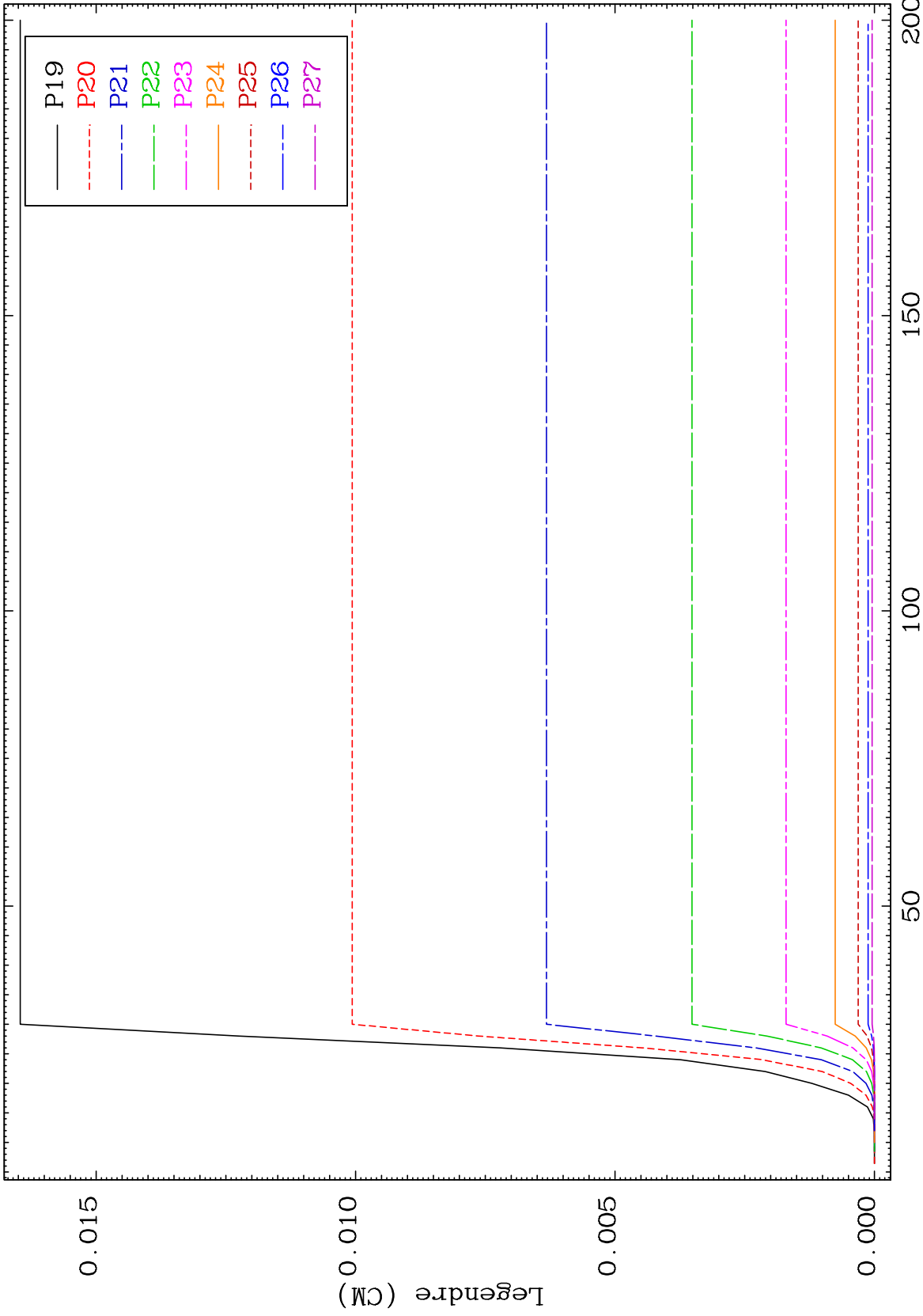
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



124

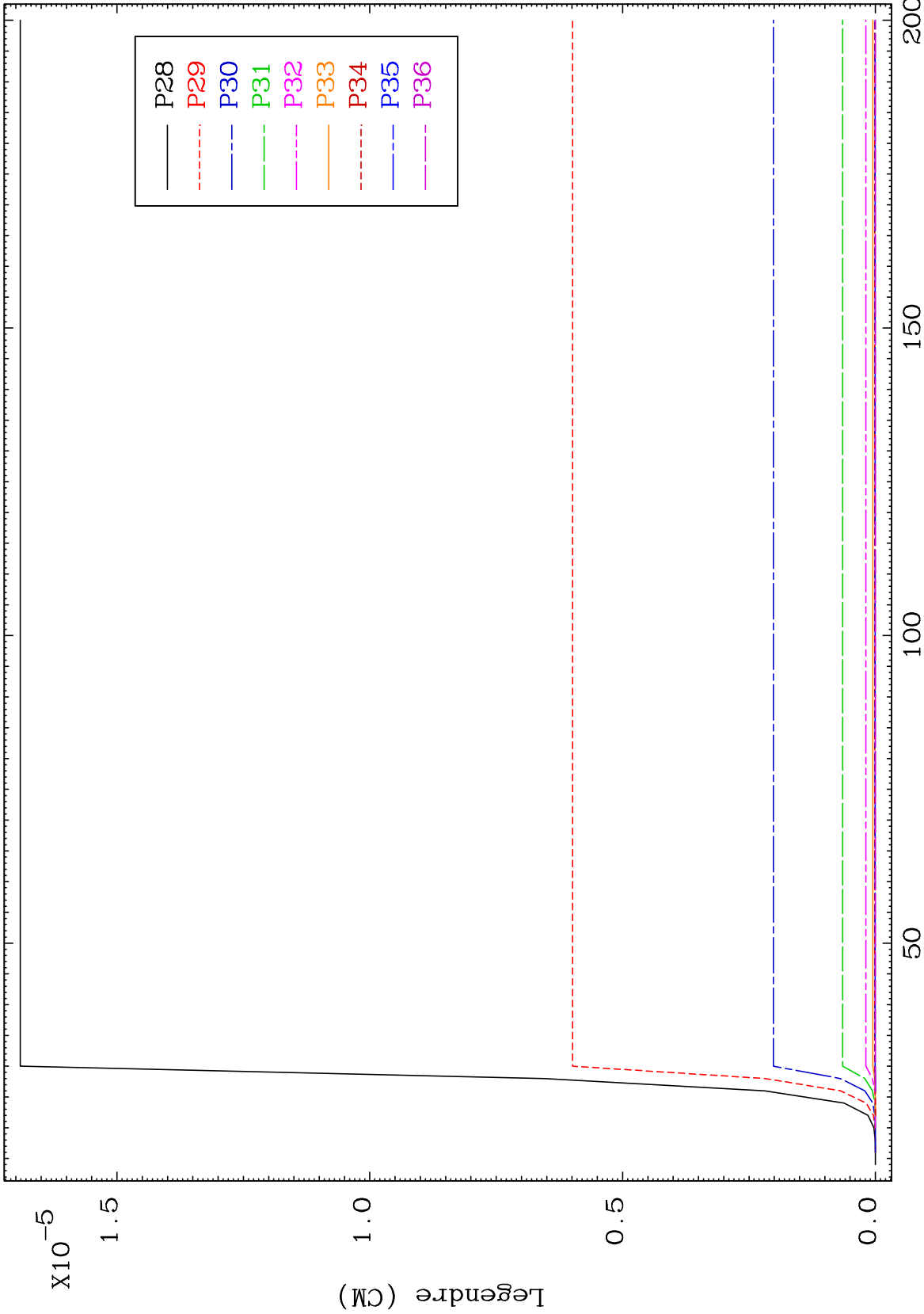
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



125

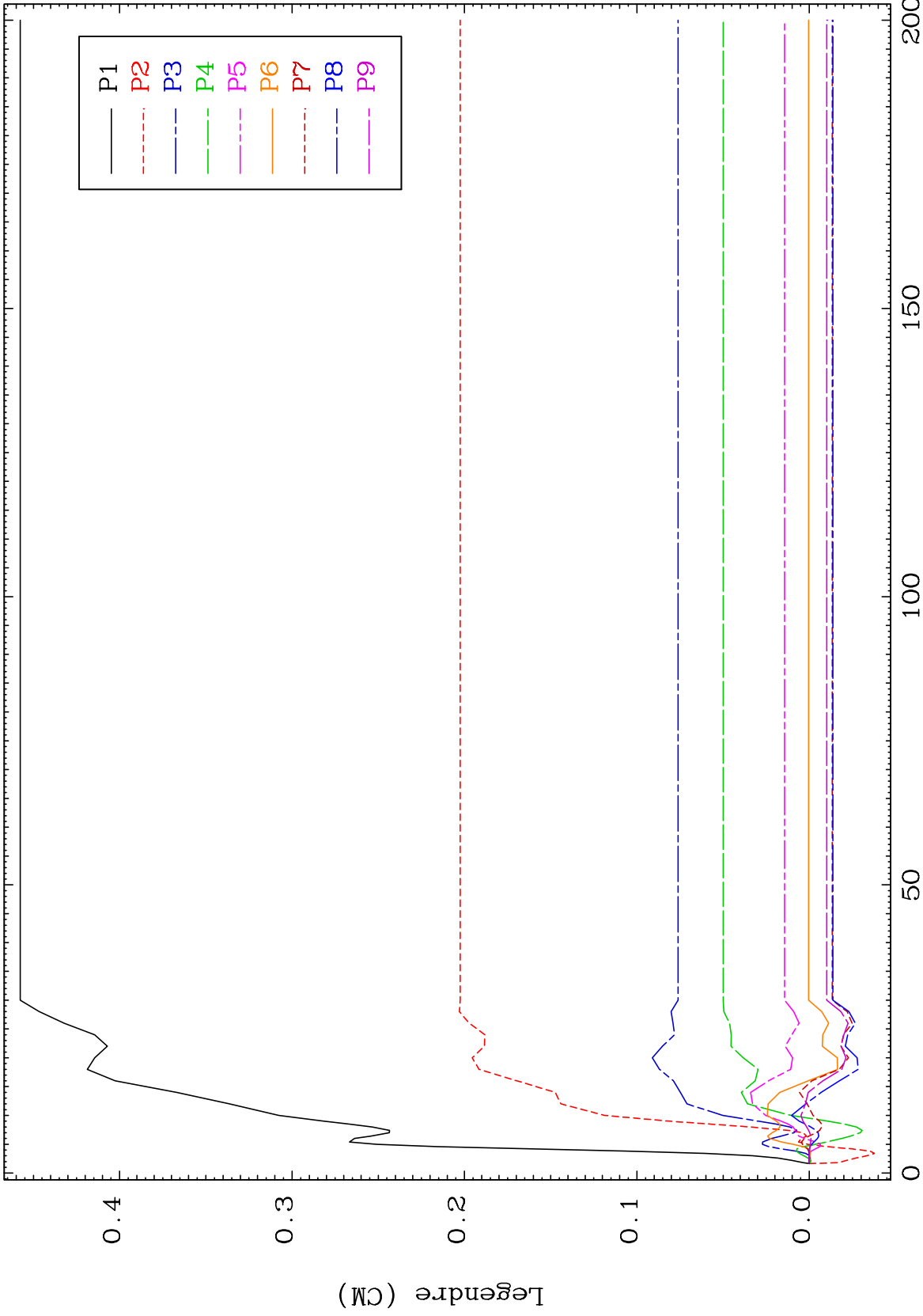
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



126

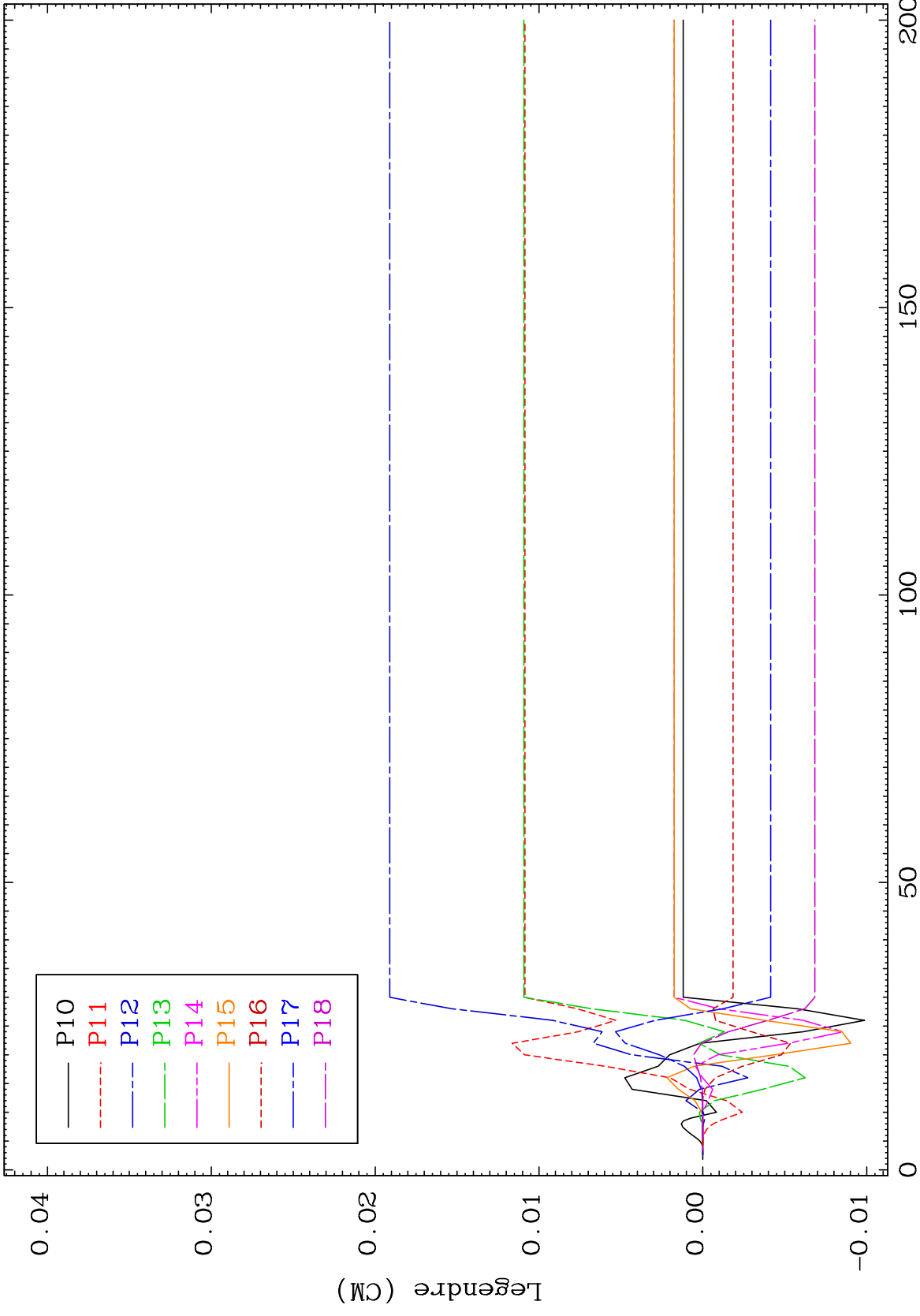
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



127

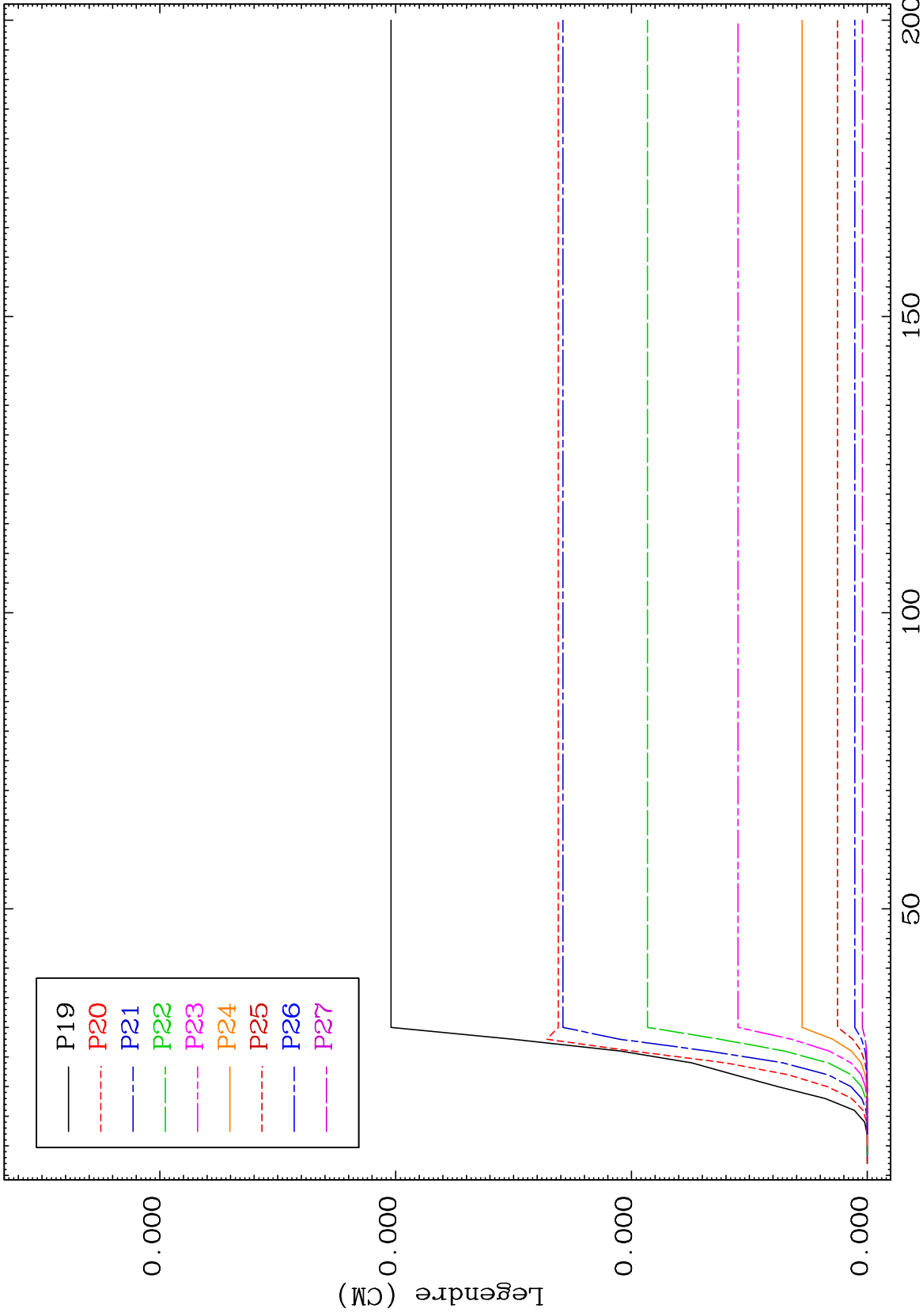
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



128

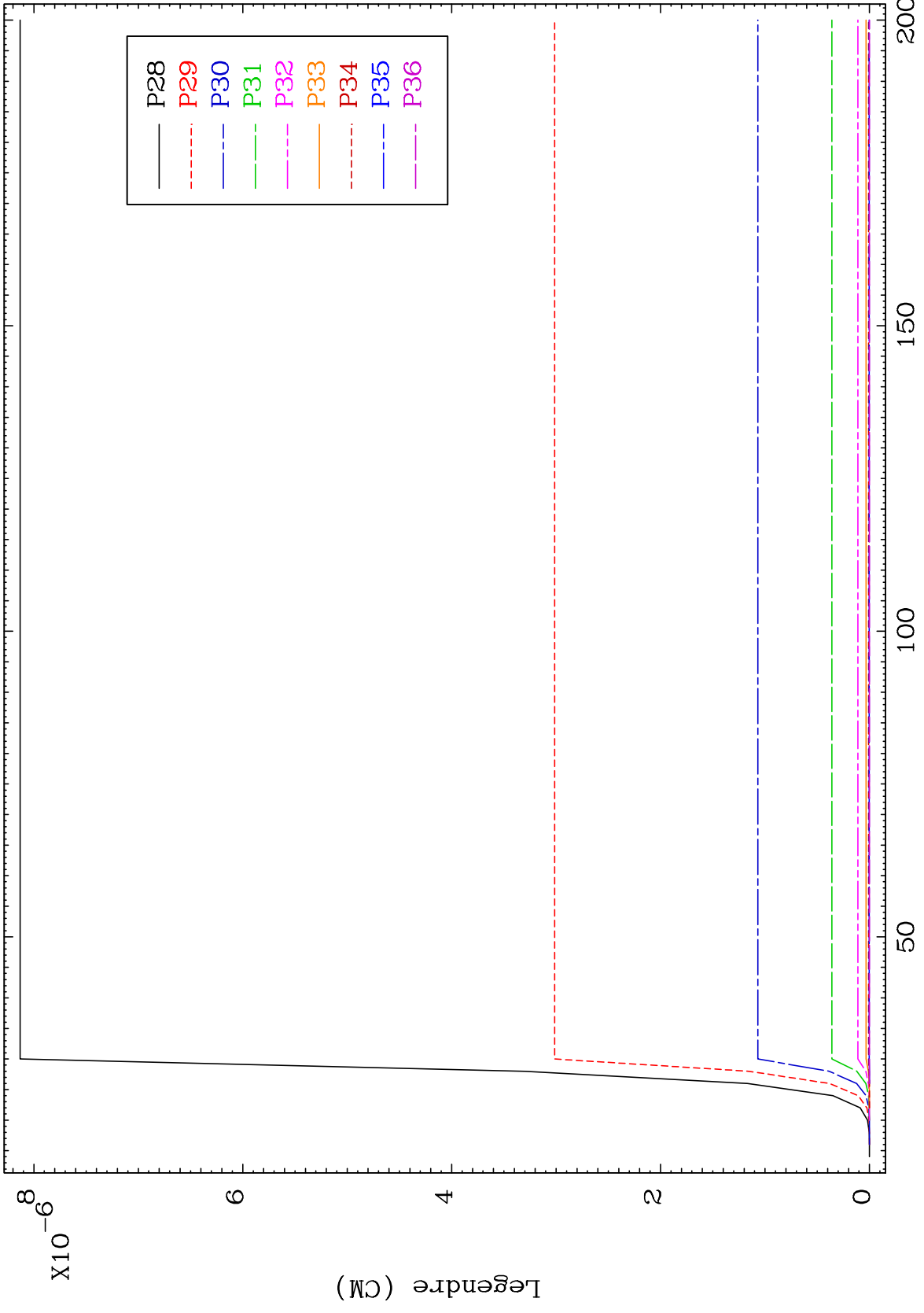
Incident Energy (MeV)

70-Yb-172

MAT 7037

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

70-Yb-172



129

Incident Energy (MeV)

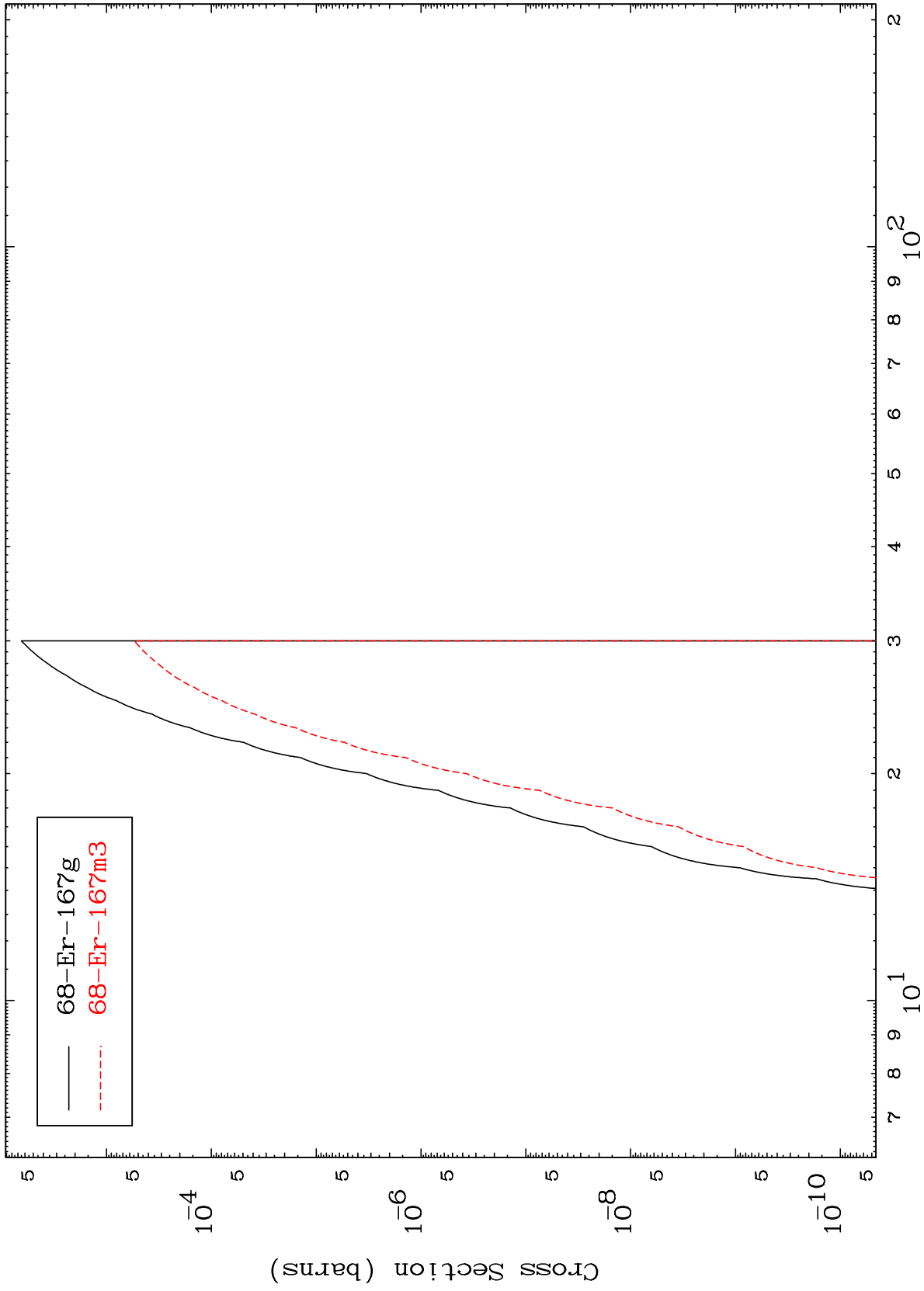
70-Yb-172

MAT 7037

$(n, 2n) \alpha$

70-Yb-172

Radionuclide Production Cross Section



130

Incident Energy (MeV)

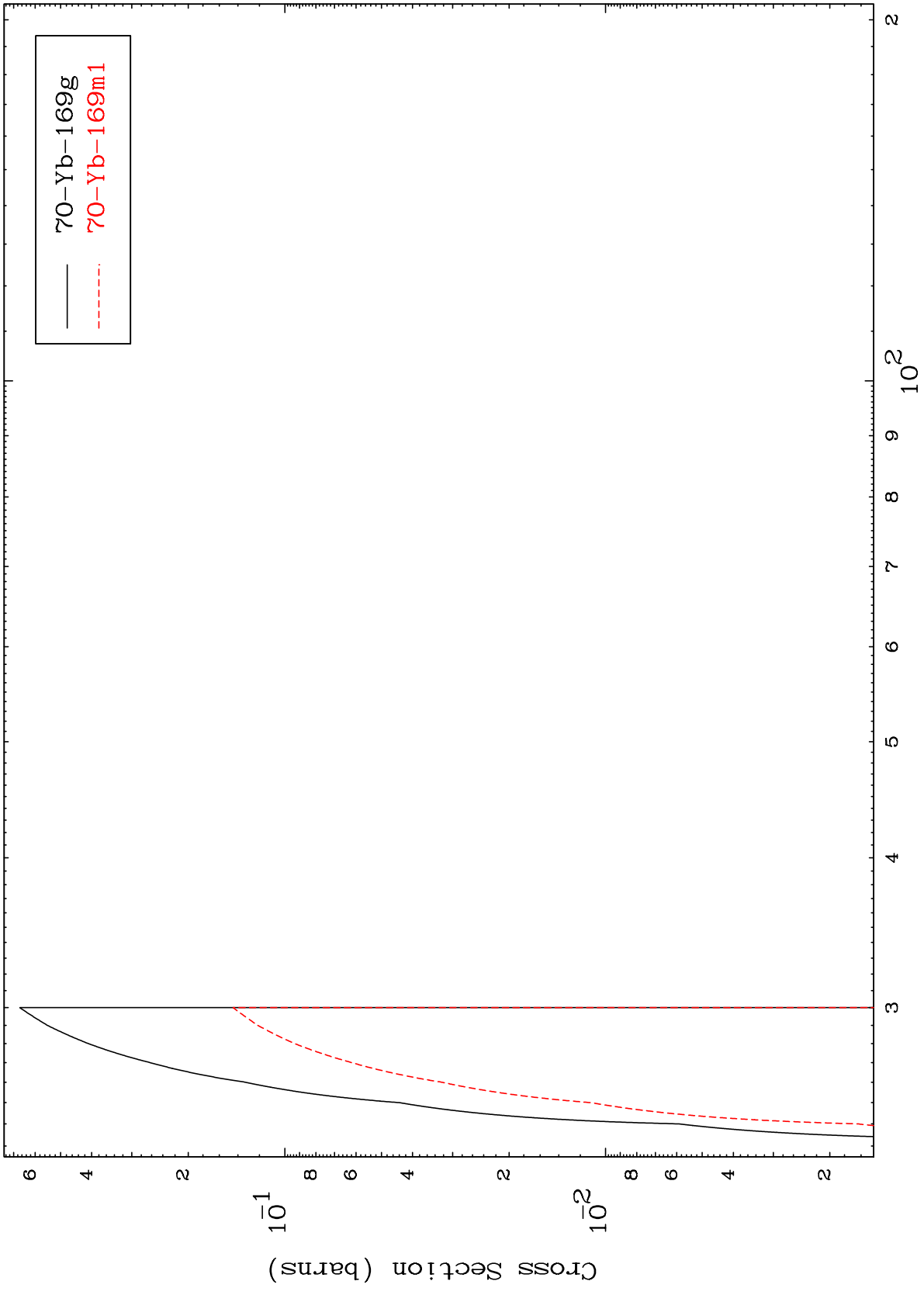
70-Yb-172

MAT 7037

(n,4n)

70-Yb-172

Radionuclide Production Cross Section



131

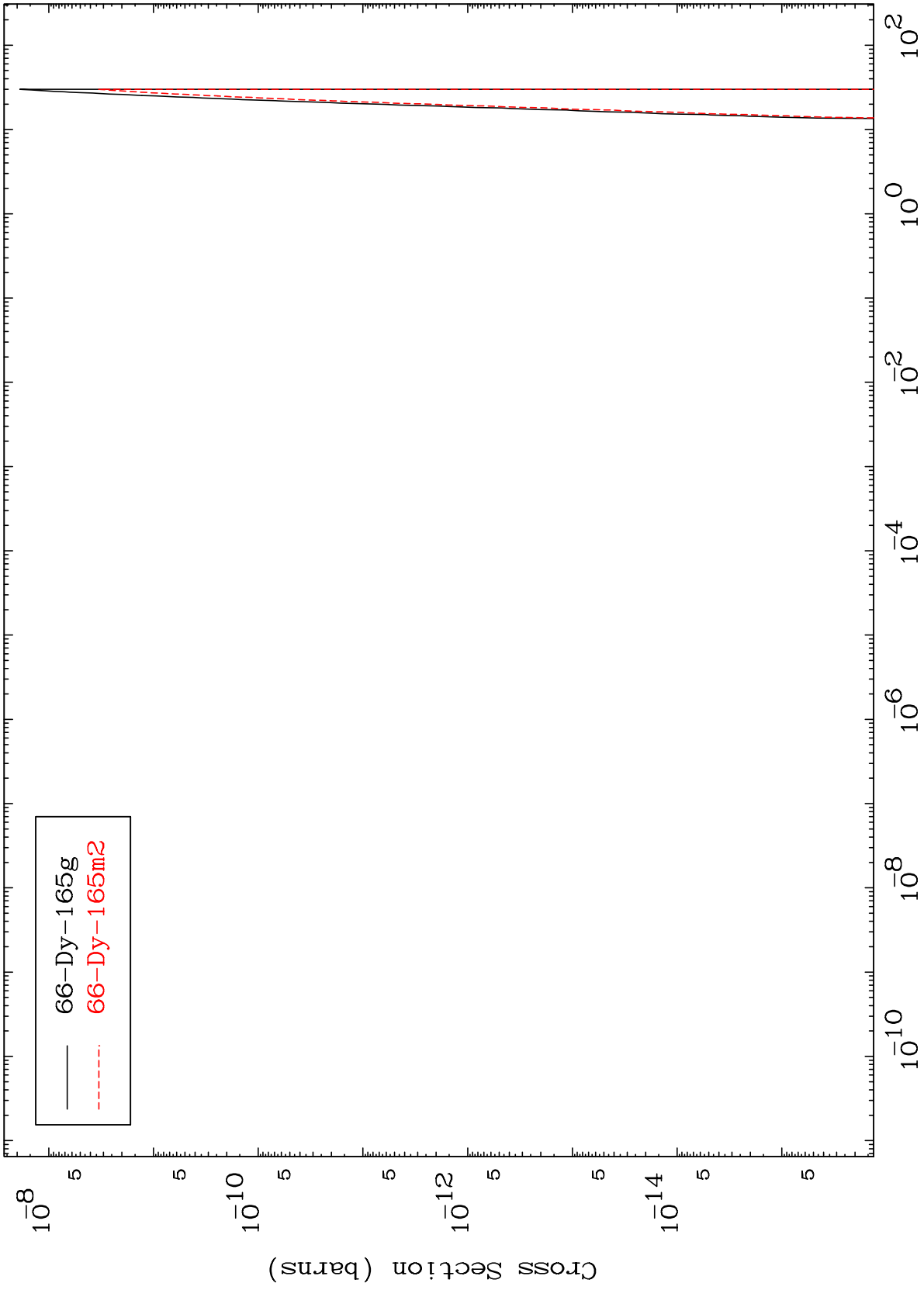
70-Yb-172

MAT 7037

(n,2α)

70-Yb-172

Radionuclide Production Cross Section



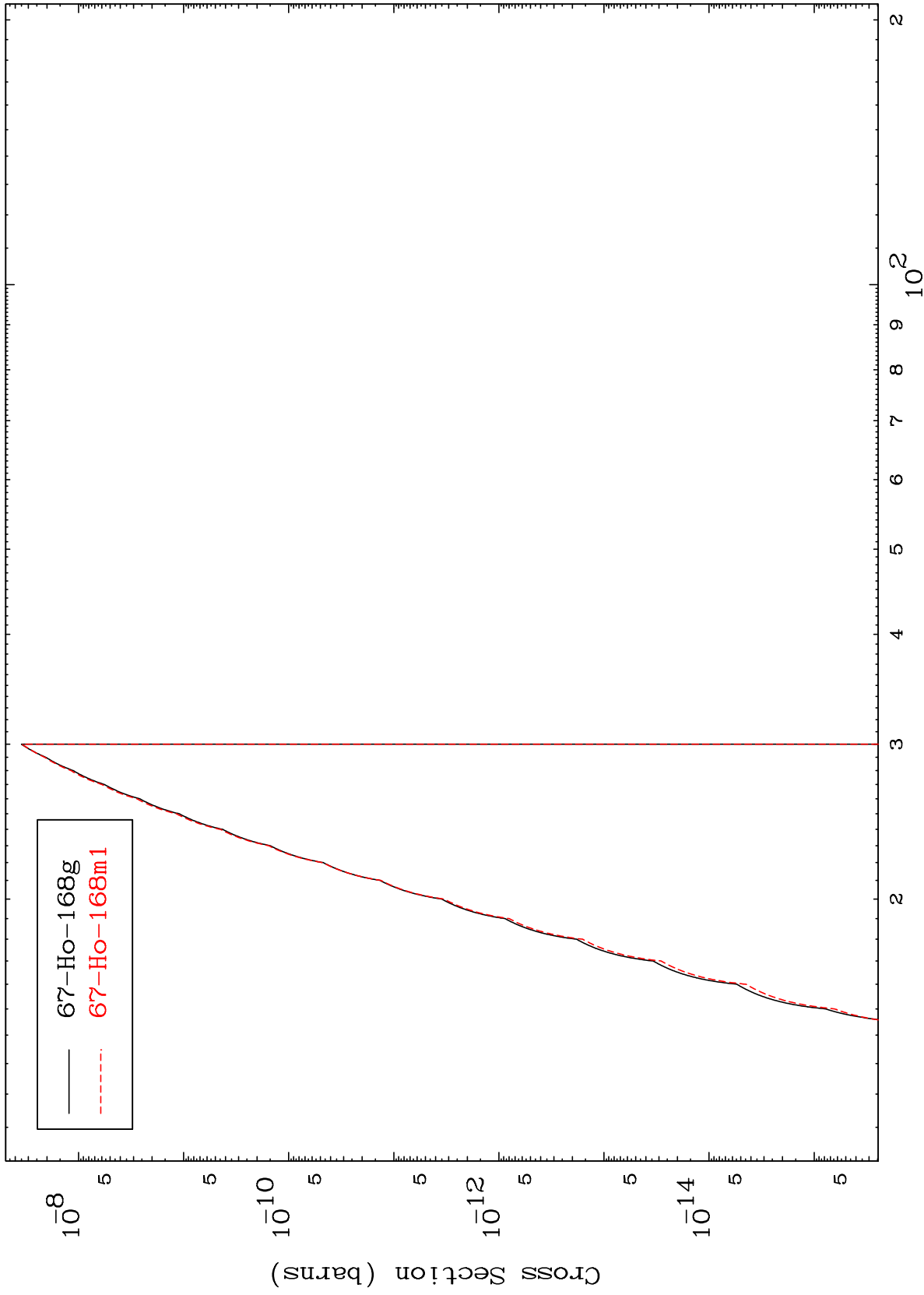
66-Dy-165g
66-Dy-165m2

MAT 7037

(n,p) α

70-Yb-172

Radionuclide Production Cross Section



133

Incident Energy (MeV)

70-Yb-172