

Program EVALPLOT
(Version 2018-1)

by

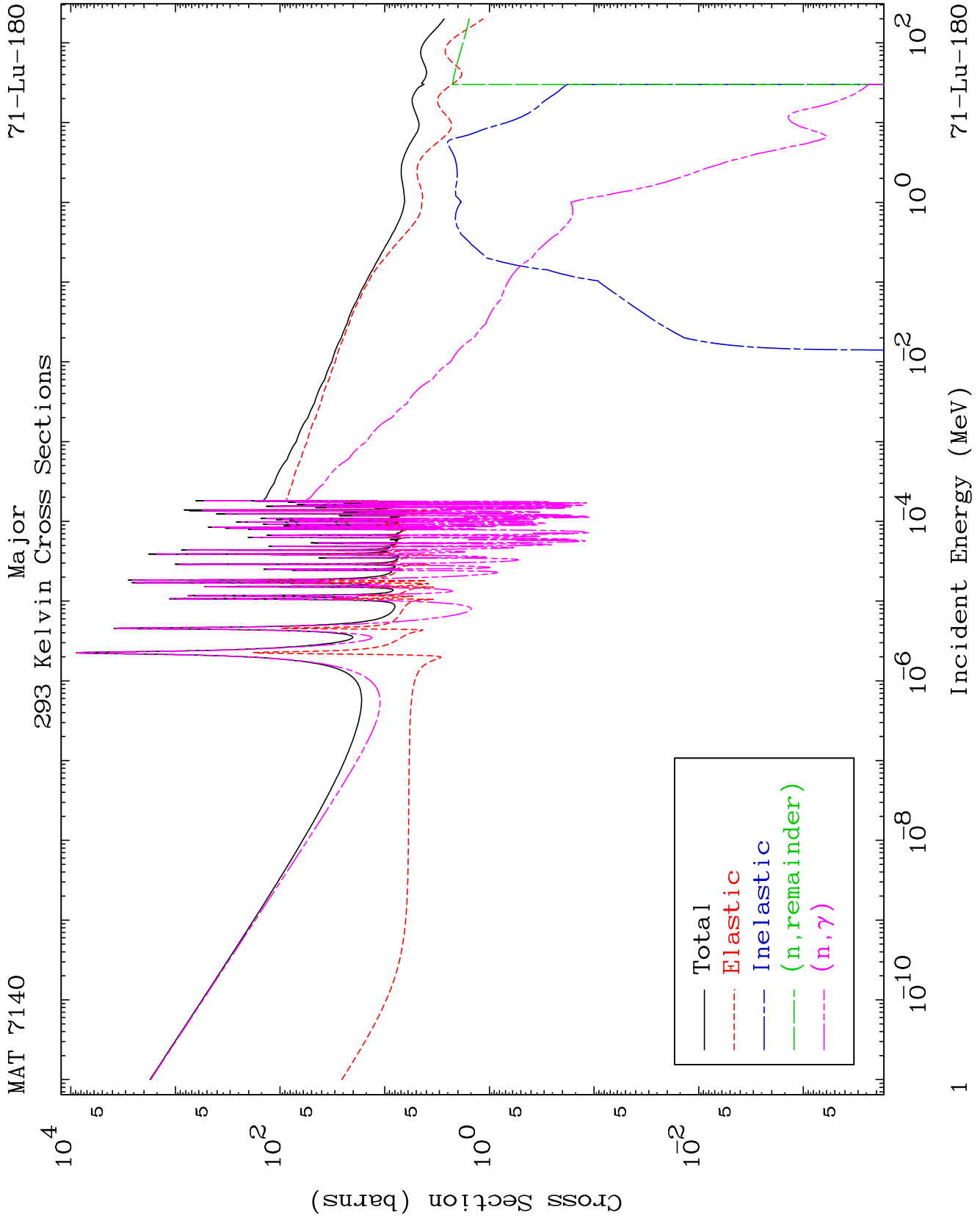
Dermott E. Cullen
(Present Contact Information)

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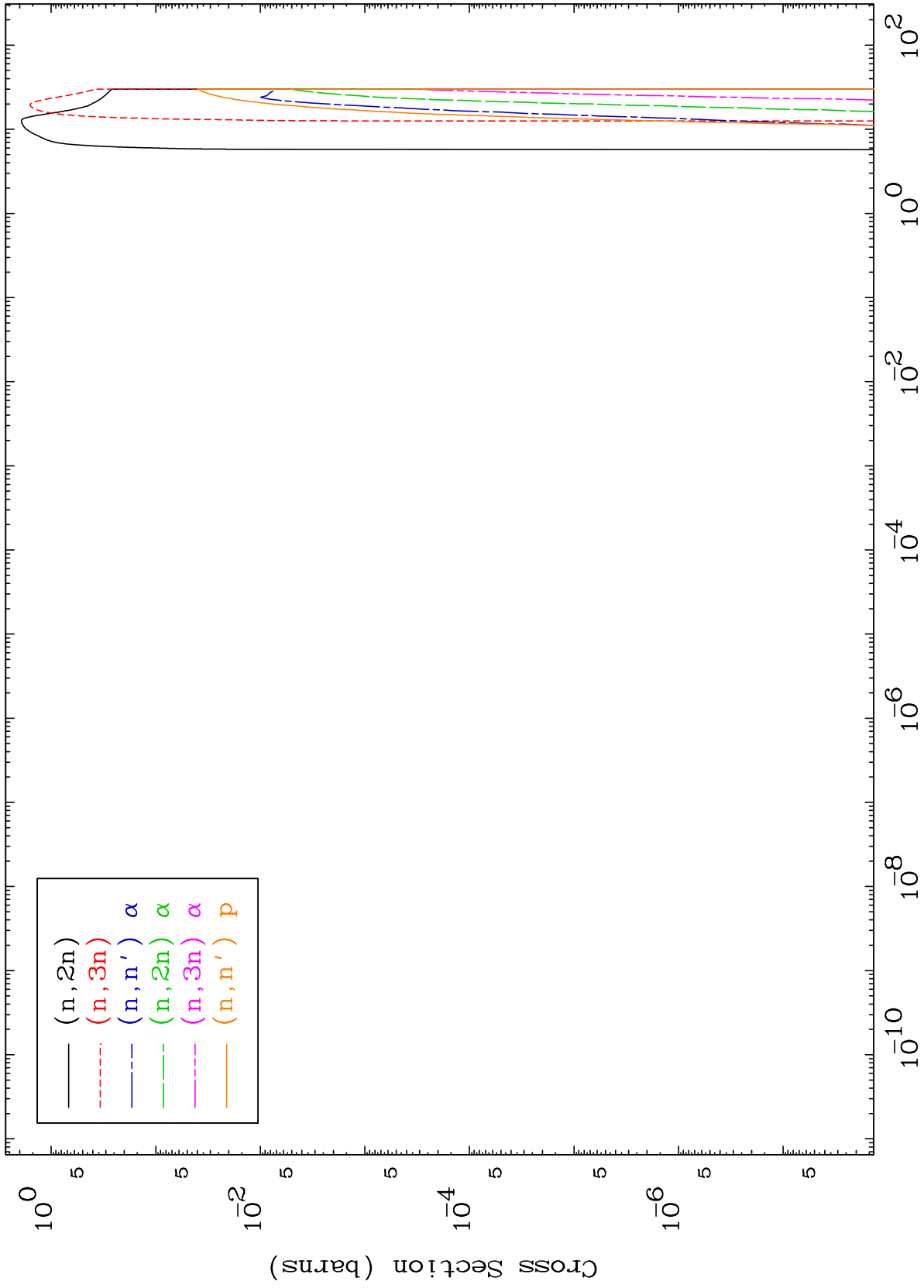
Press Mouse Button to Start



MAT 7140

Neutron Production 293 Kelvin Cross Sections

71-Lu-180

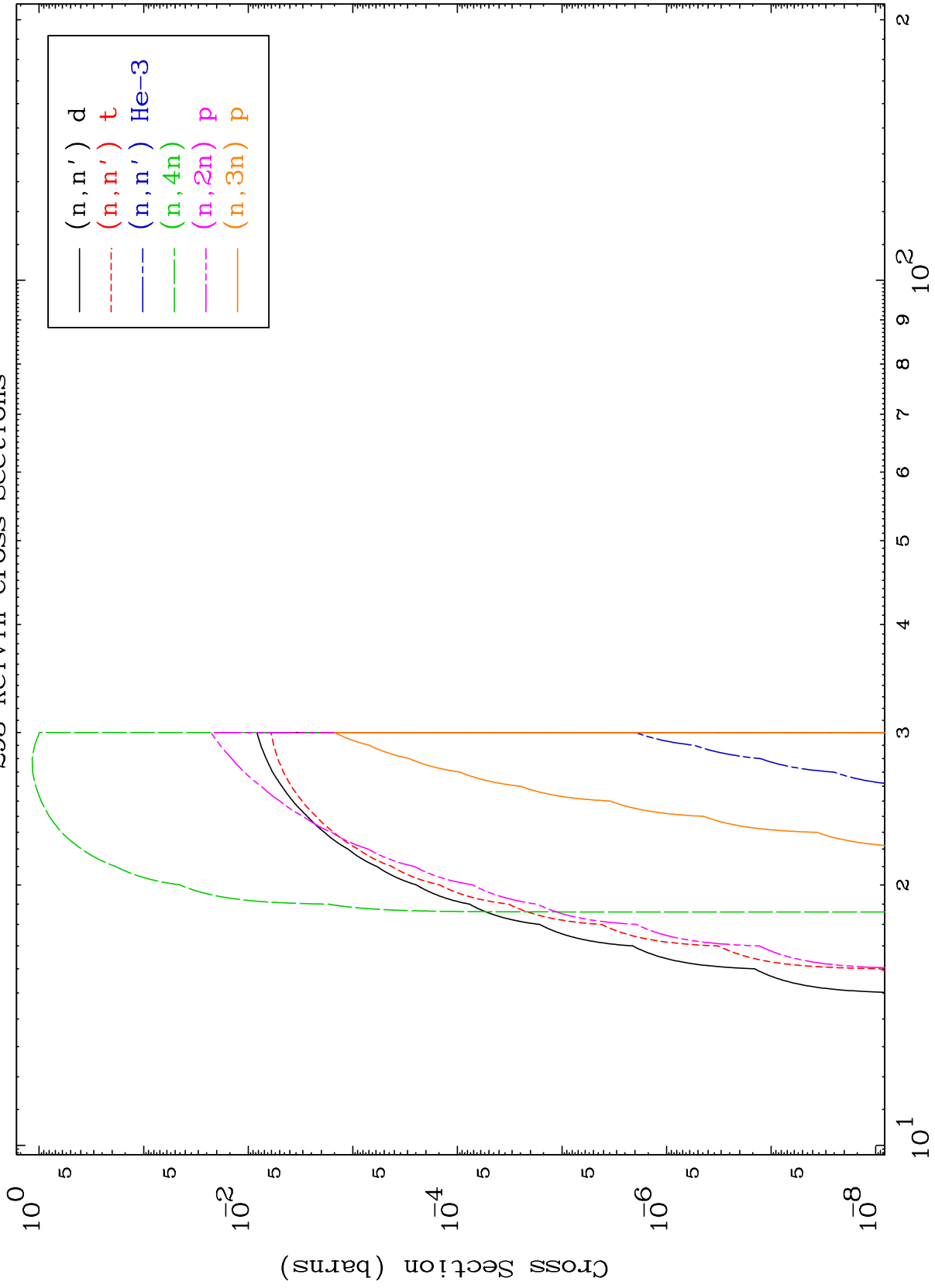


71-Lu-180

MAT 7140

Neutron Production
293 Kelvin Cross Sections

71-Lu-180



71-Lu-180

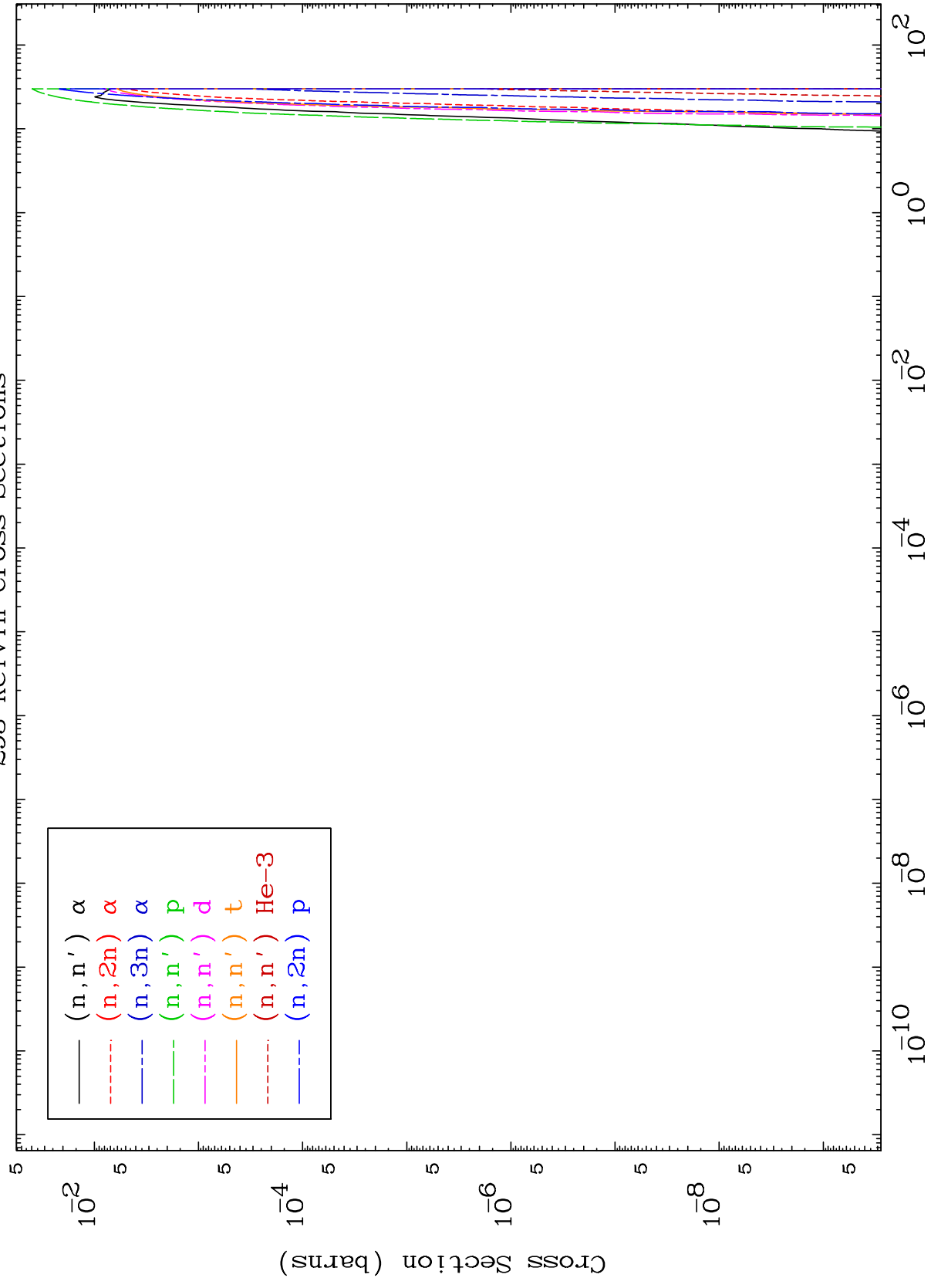
Incident Energy (MeV)

3

MAT 7140

293 Kelvin Cross Sections

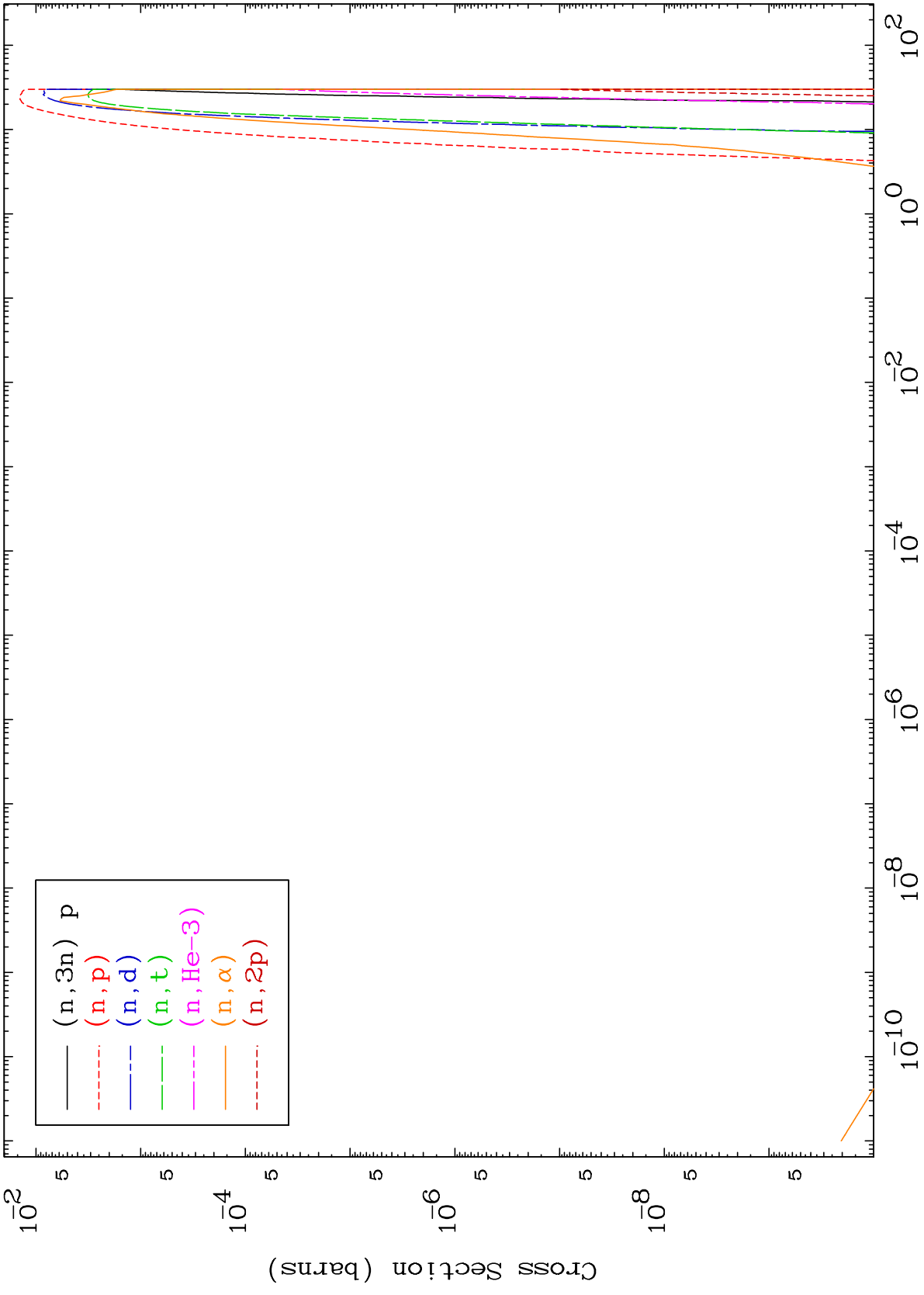
71-Lu-180



MAT 7140

Charged Particle
293 Kelvin Cross Sections

71-Lu-180



71-Lu-180

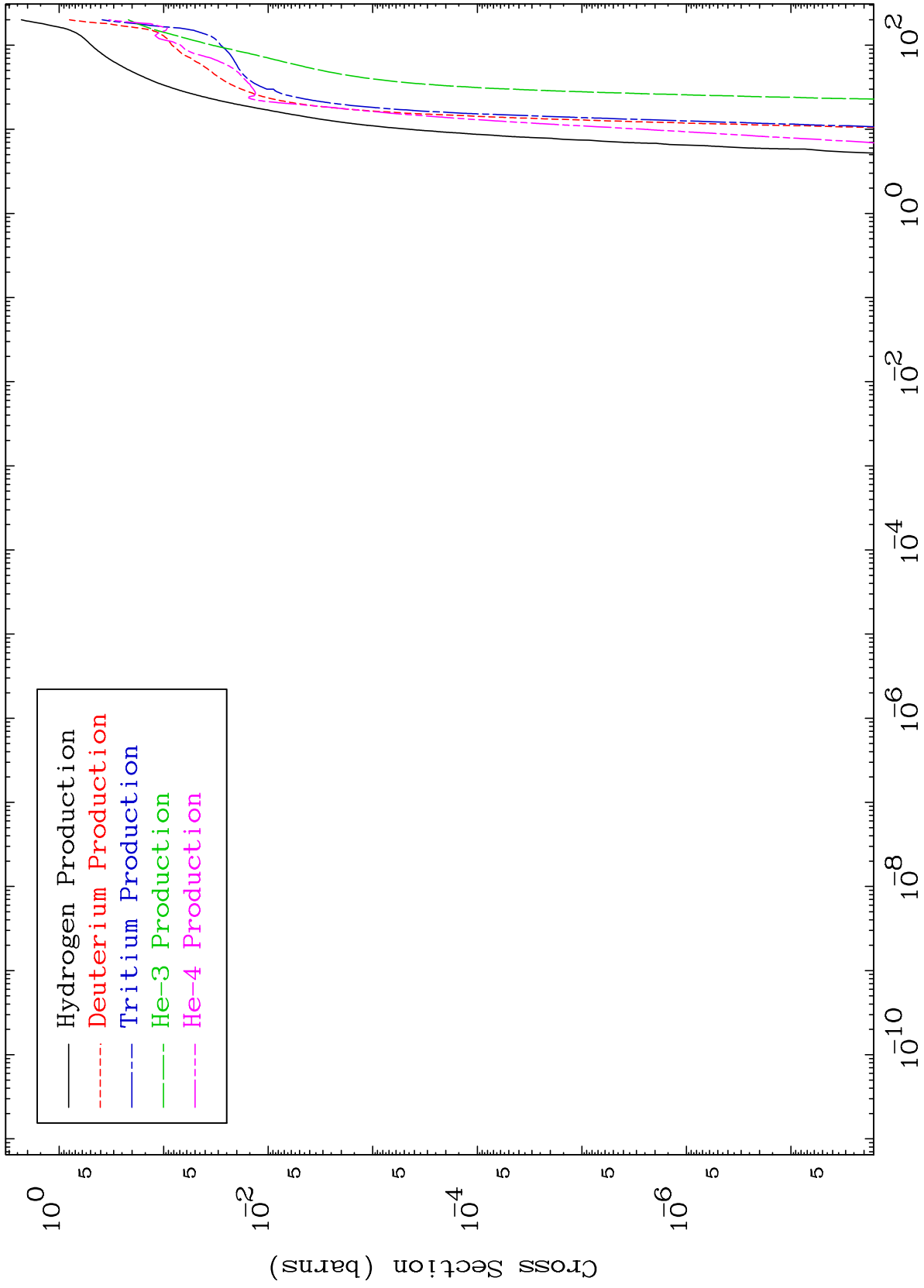
Incident Energy (MeV)

5

MAT 7140

Particle Production
293 Kelvin Cross Sections

71-Lu-180



6

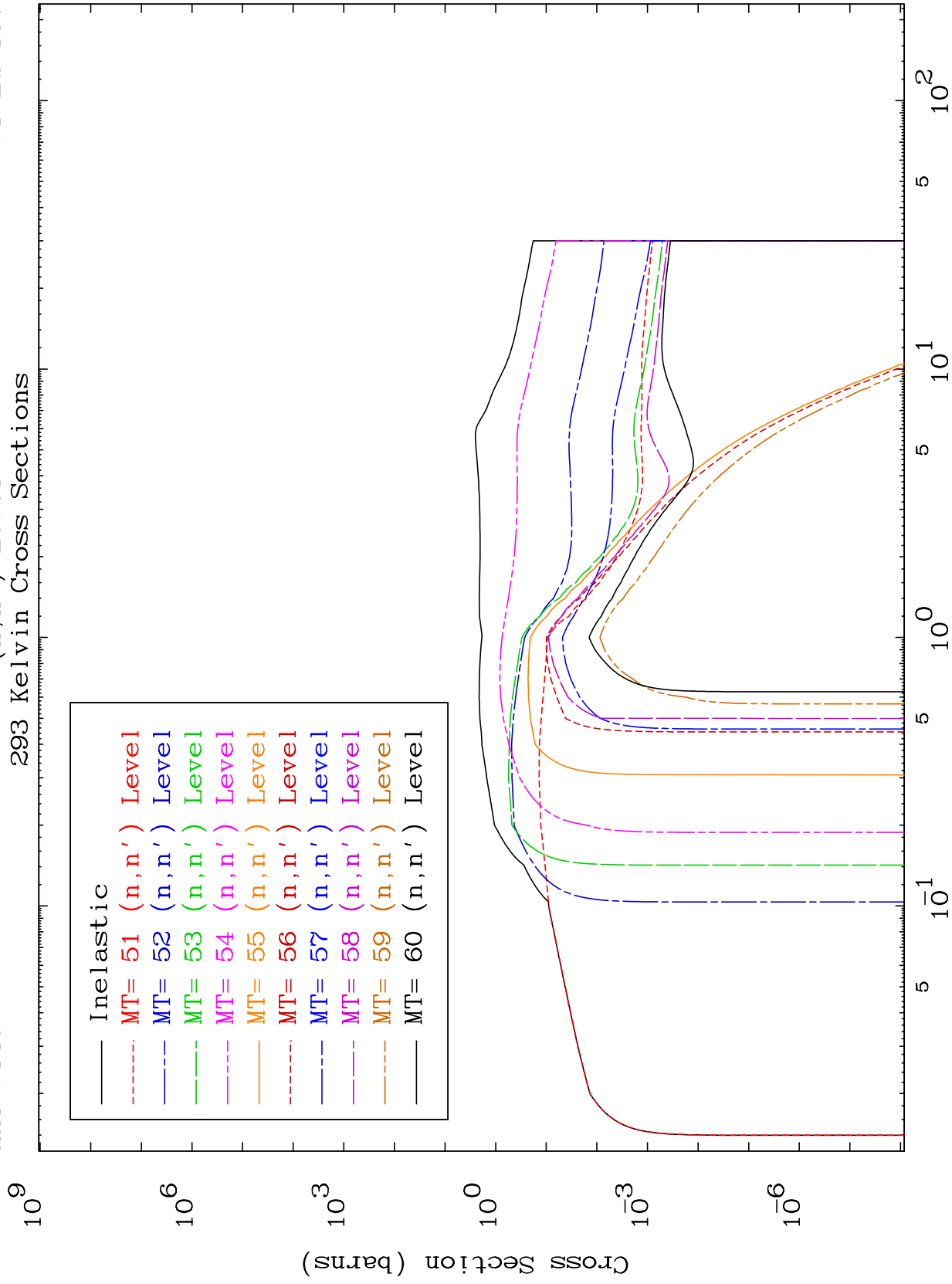
Incident Energy (MeV)

71-Lu-180

MAT 7140

(n,n') Level
293 Kelvin Cross Sections

71-Lu-180



7

Incident Energy (MeV)

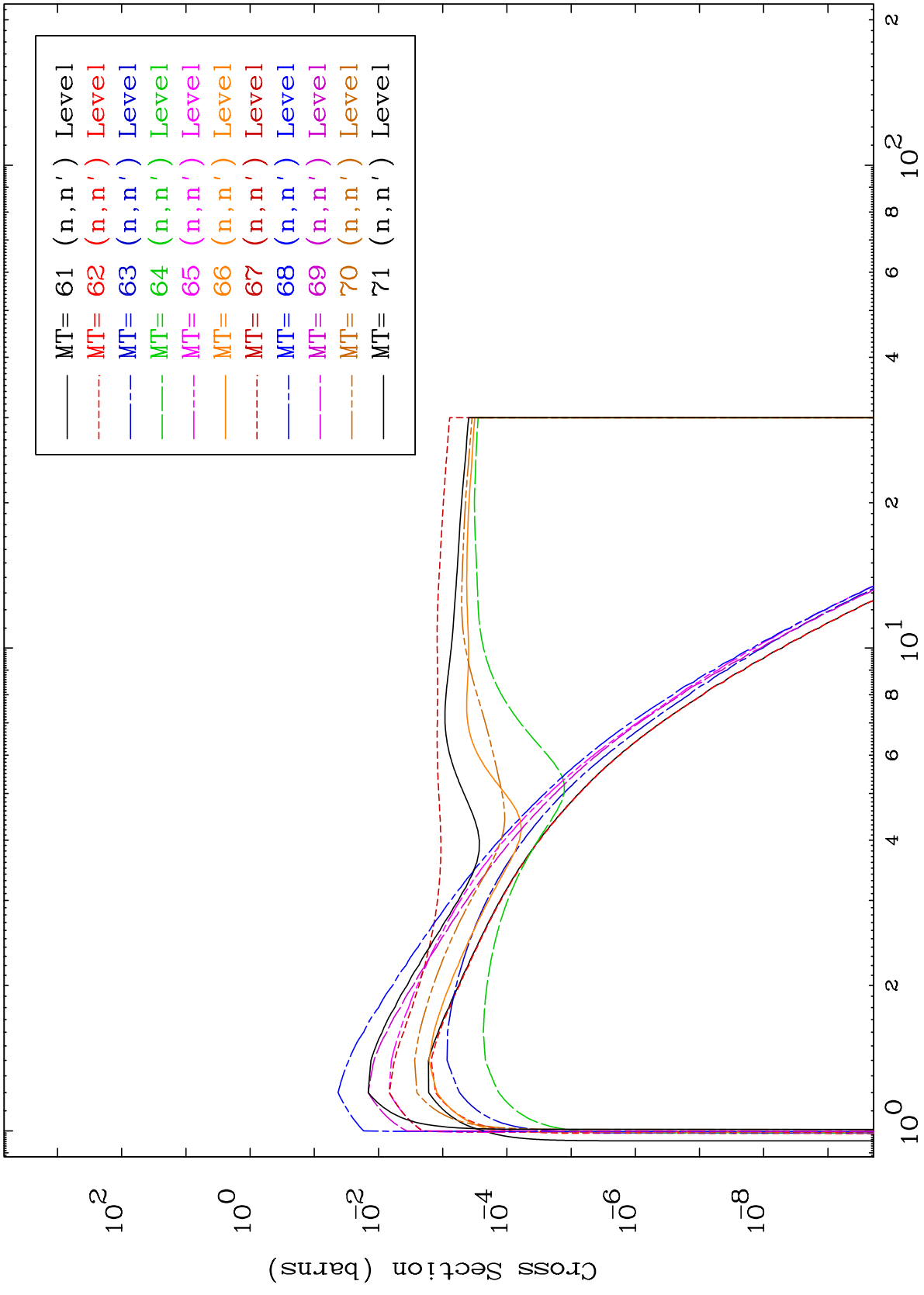
71-Lu-180

MAT 7140

(n,n') Level

71-Lu-180

293 Kelvin Cross Sections



Incident Energy (MeV)

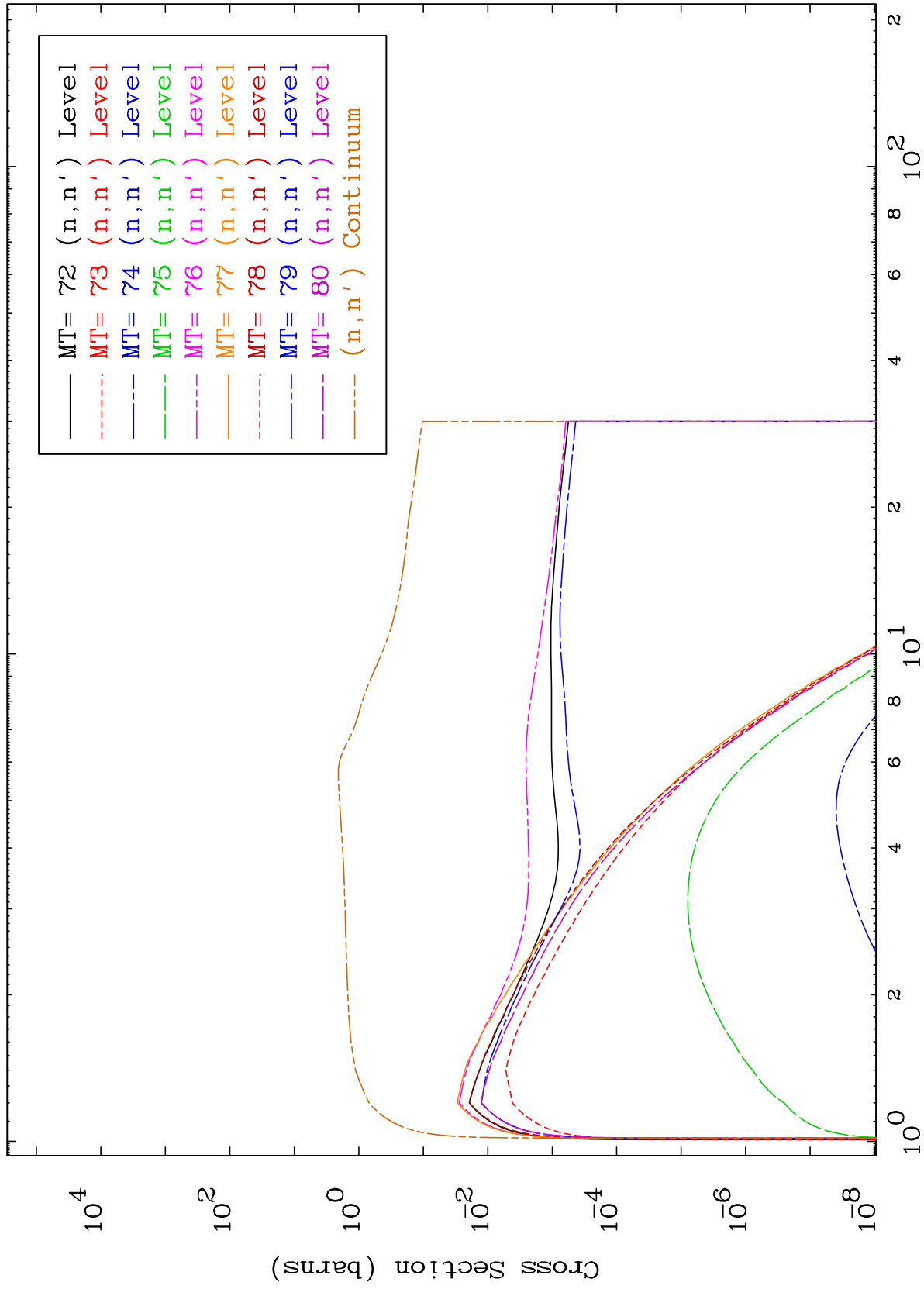
71-Lu-180

MAT 7140

(n,n') Level

71-Lu-180

293 Kelvin Cross Sections



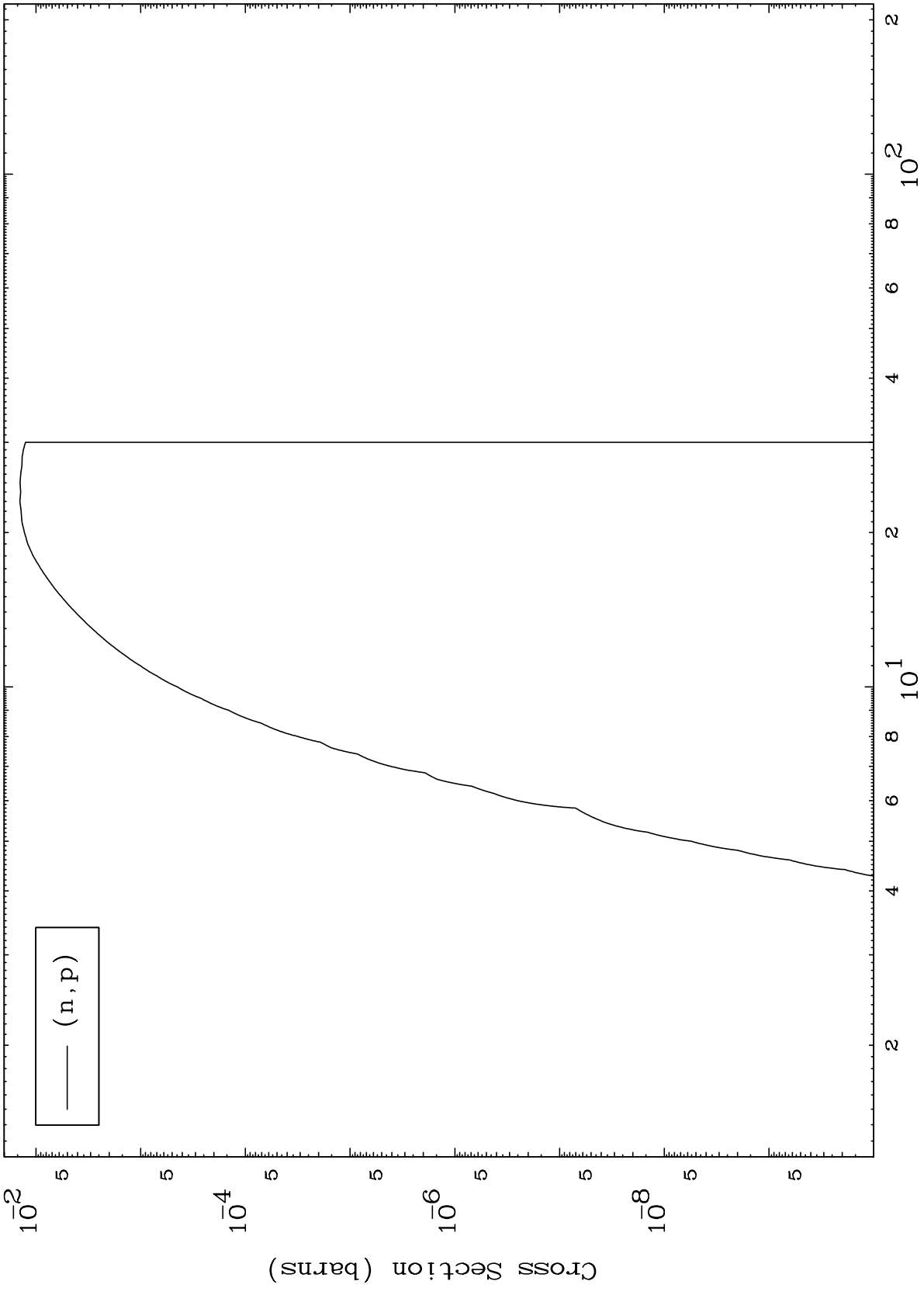
Incident Energy (MeV)

71-Lu-180

MAT 7140

(n,p) Levels
293 Kelvin Cross Sections

71-Lu-180



10

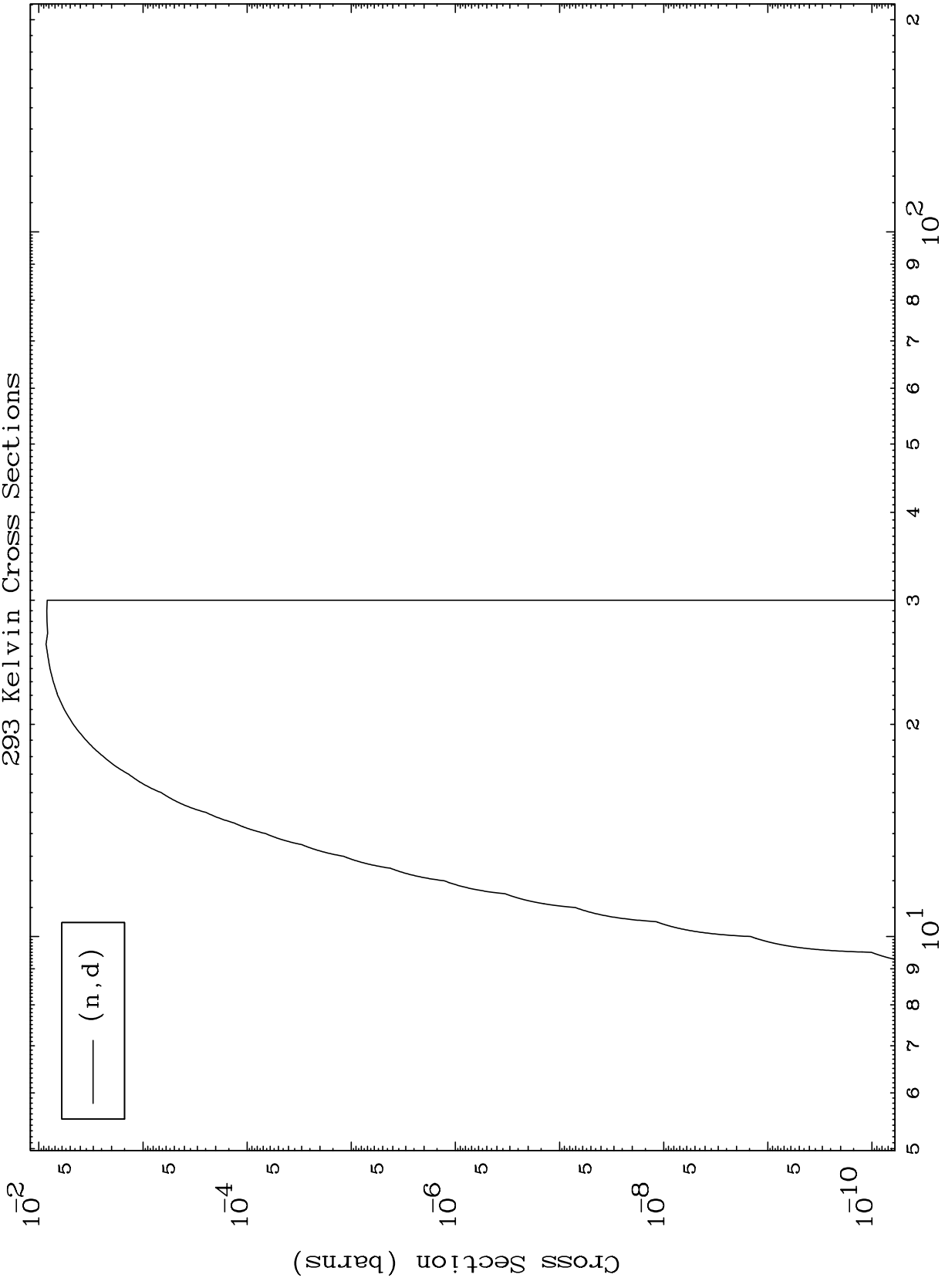
Incident Energy (MeV)

71-Lu-180

MAT 7140

(n,d) Levels
293 Kelvin Cross Sections

71-Lu-180

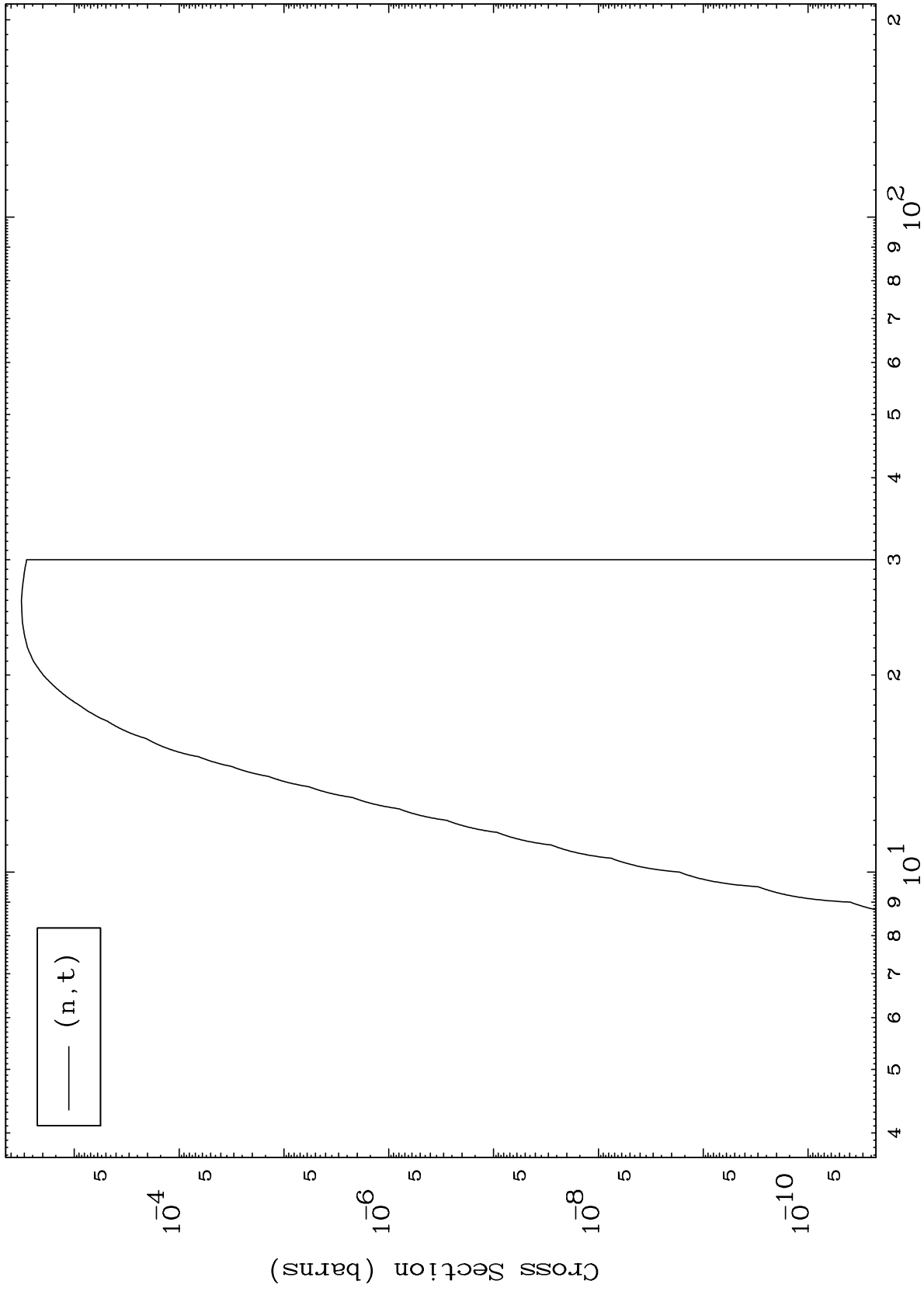


(n,d)

MAT 7140

(n,t) Levels
293 Kelvin Cross Sections

71-Lu-180



12

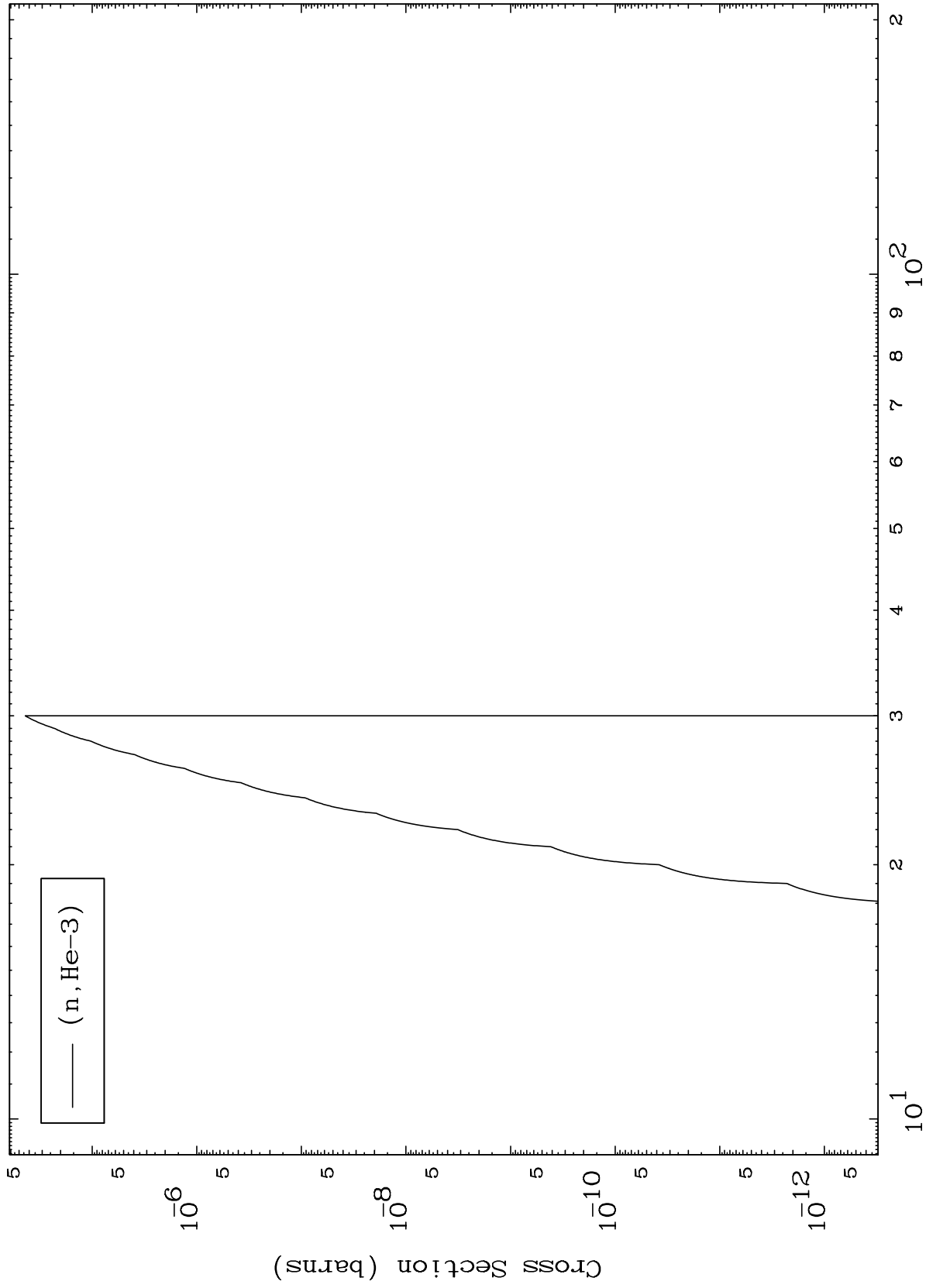
Incident Energy (MeV)

71-Lu-180

MAT 7140

(n,He3) Levels
293 Kelvin Cross Sections

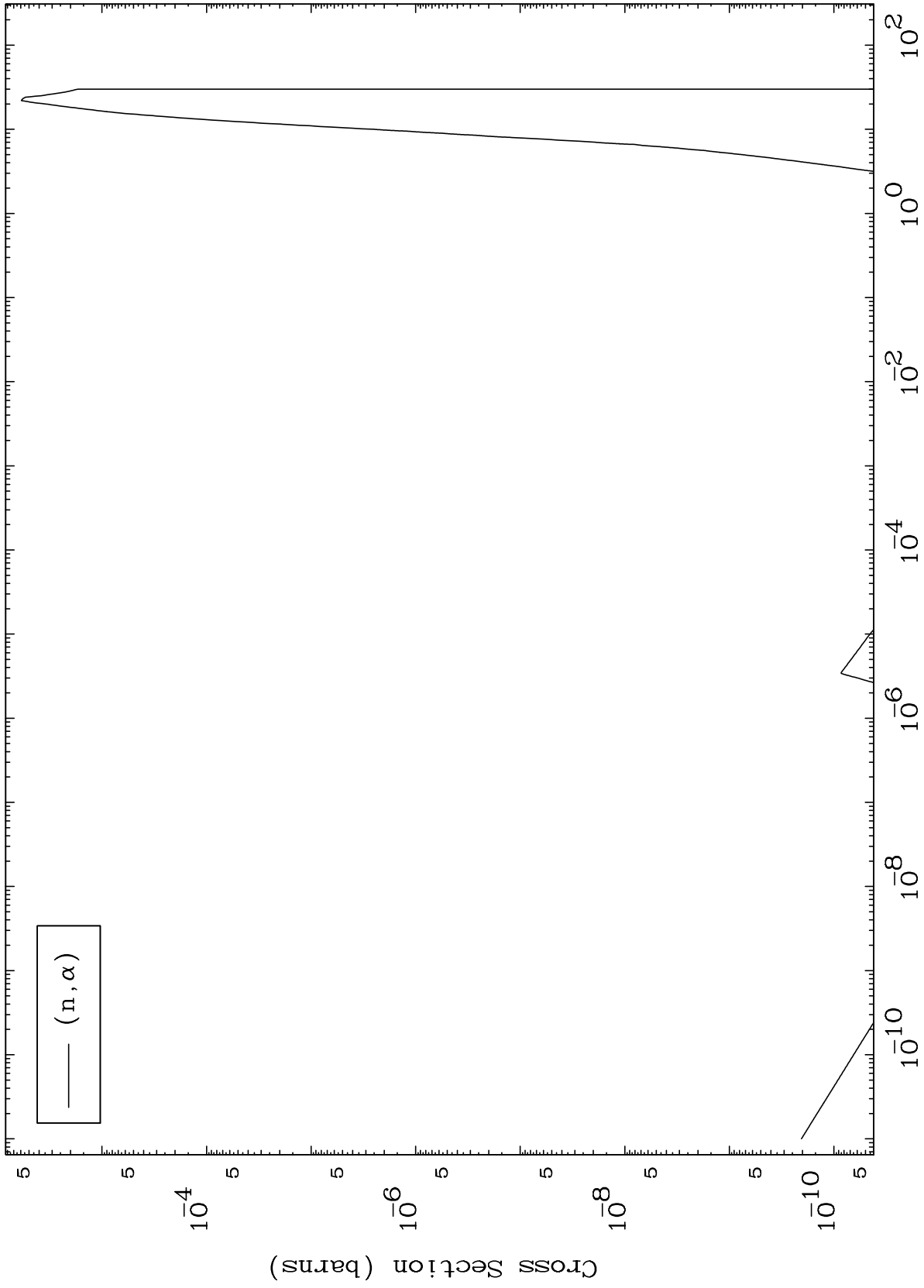
71-Lu-180



MAT 7140

(n,α) Levels
293 Kelvin Cross Sections

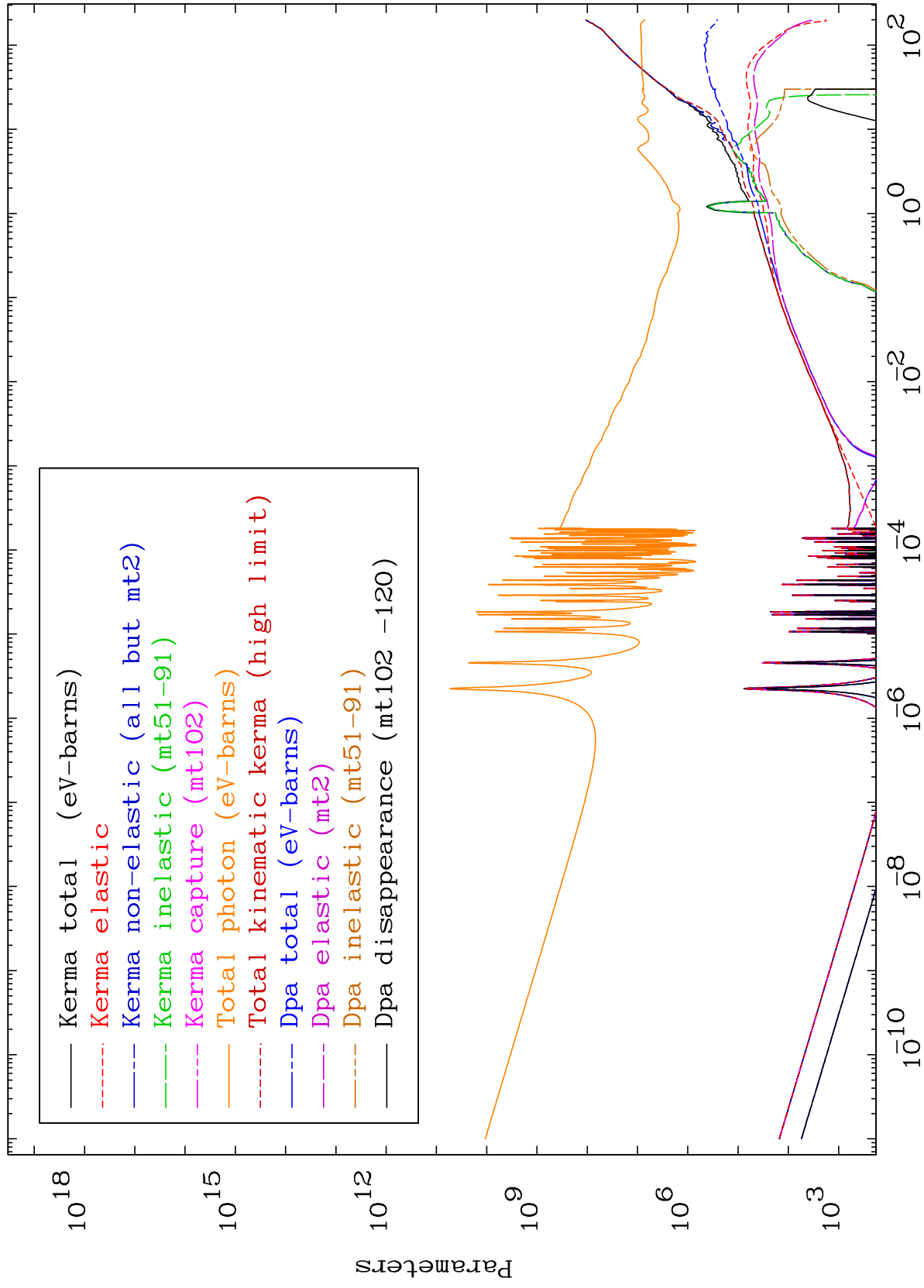
71-Lu-180

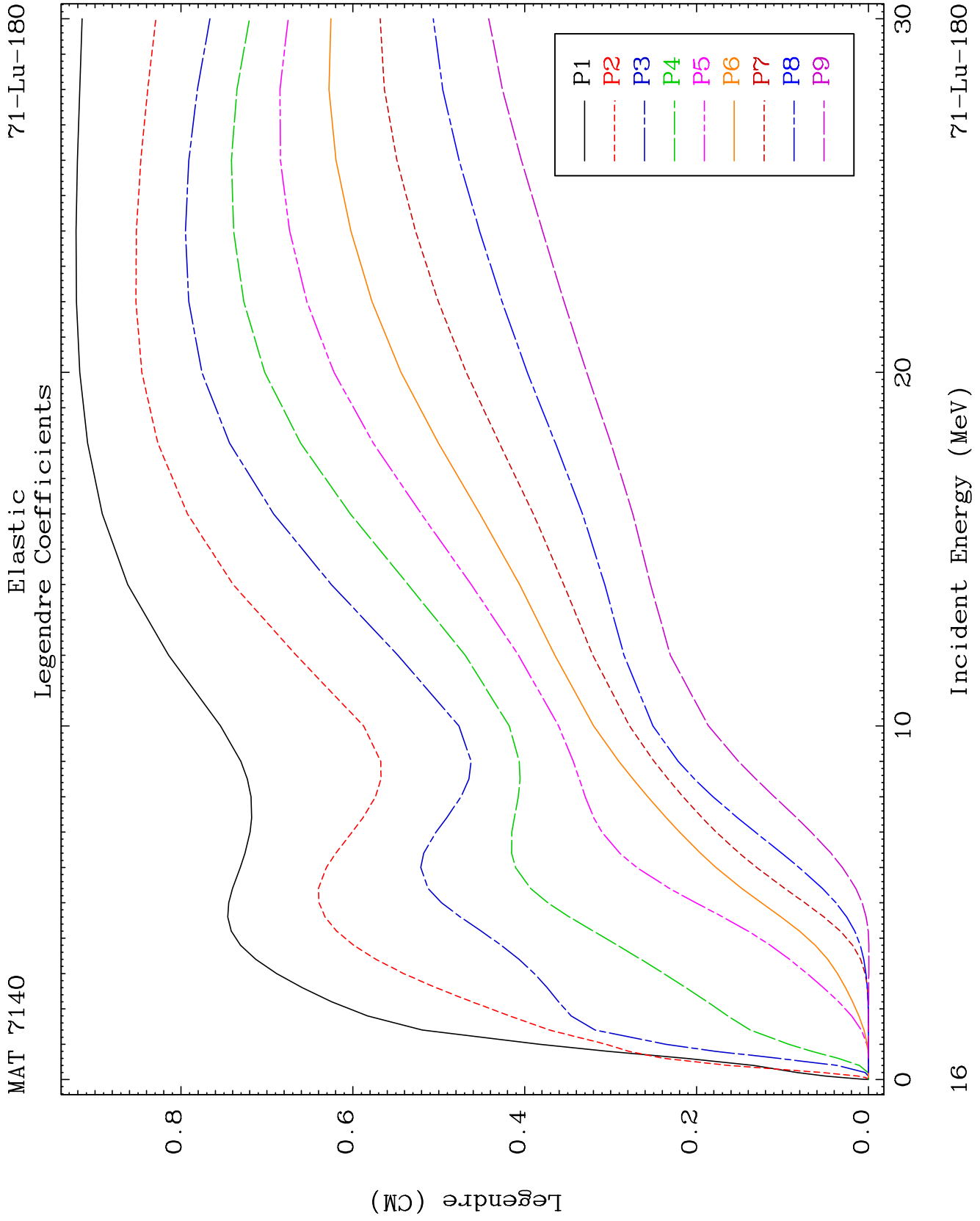


14

Incident Energy (MeV)

71-Lu-180

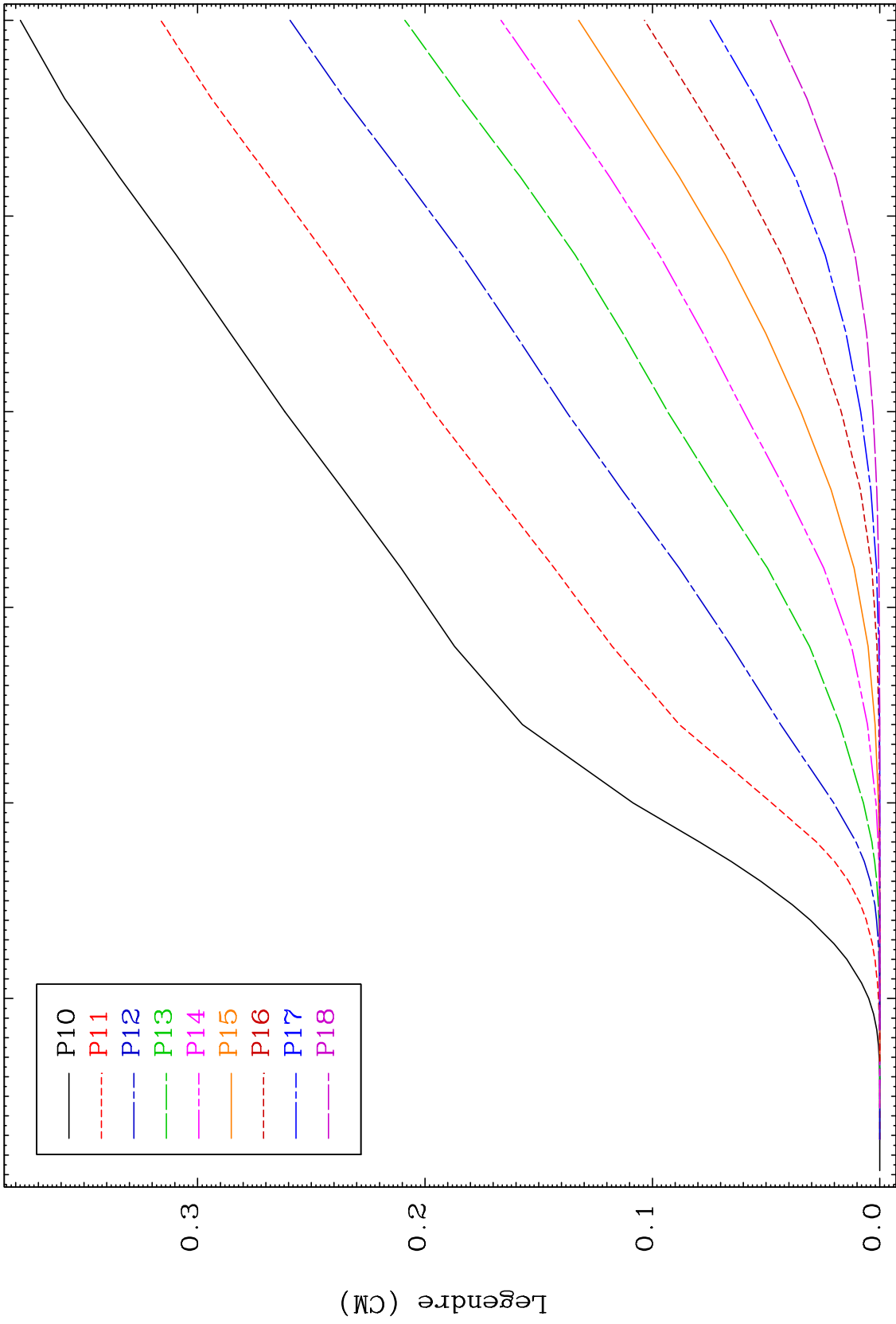




71-Lu-180

Elastic Legendre Coefficients

MAT 7140



71-Lu-180

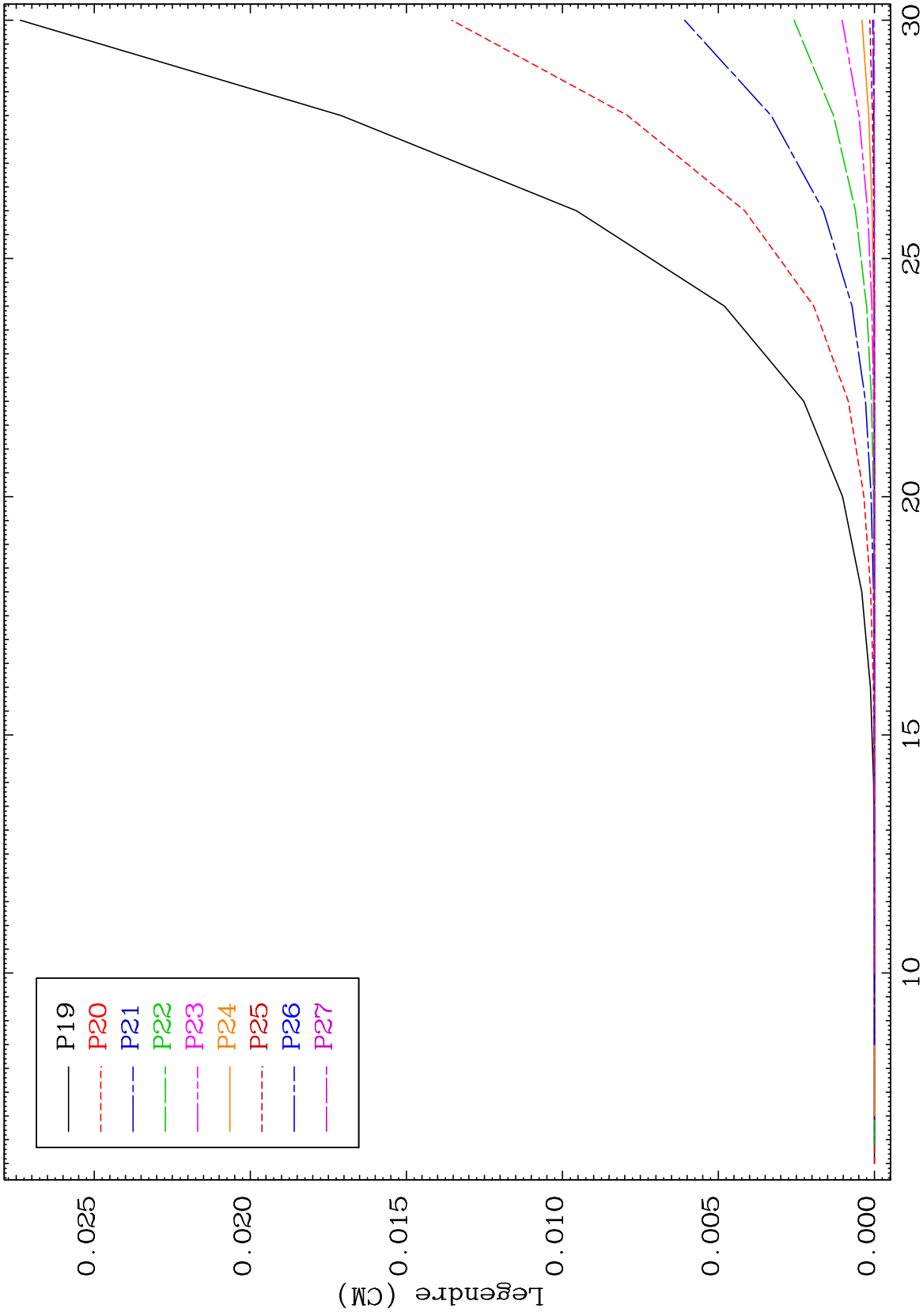
Incident Energy (MeV)

17

MAT 7140

Elastic Legendre Coefficients

71-Lu-180



18

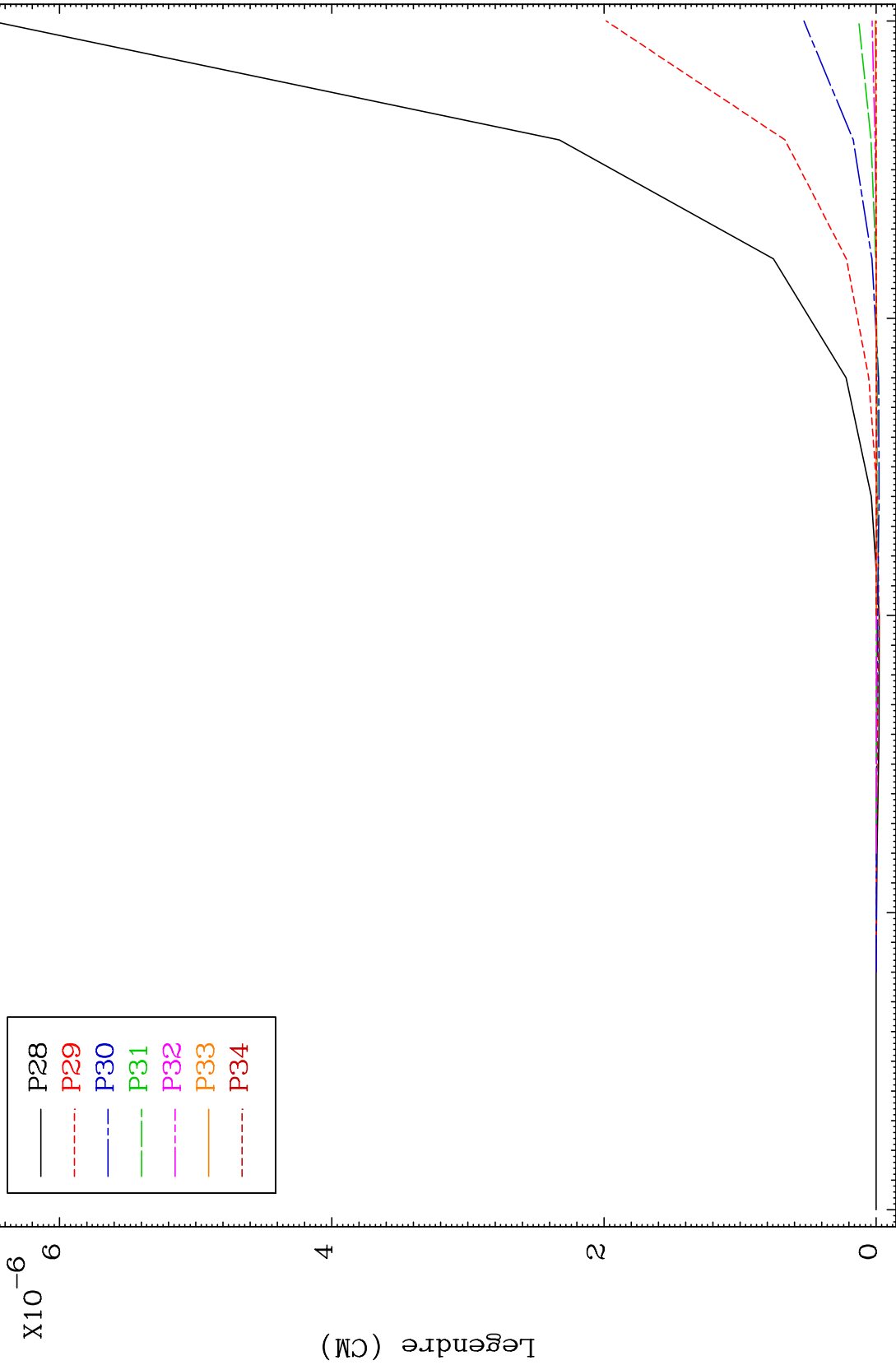
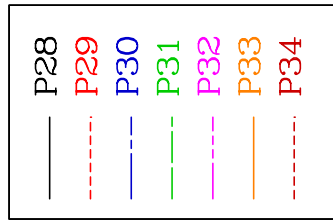
Incident Energy (MeV)

71-Lu-180

MAT 7140

Elastic Legendre Coefficients

71-Lu-180

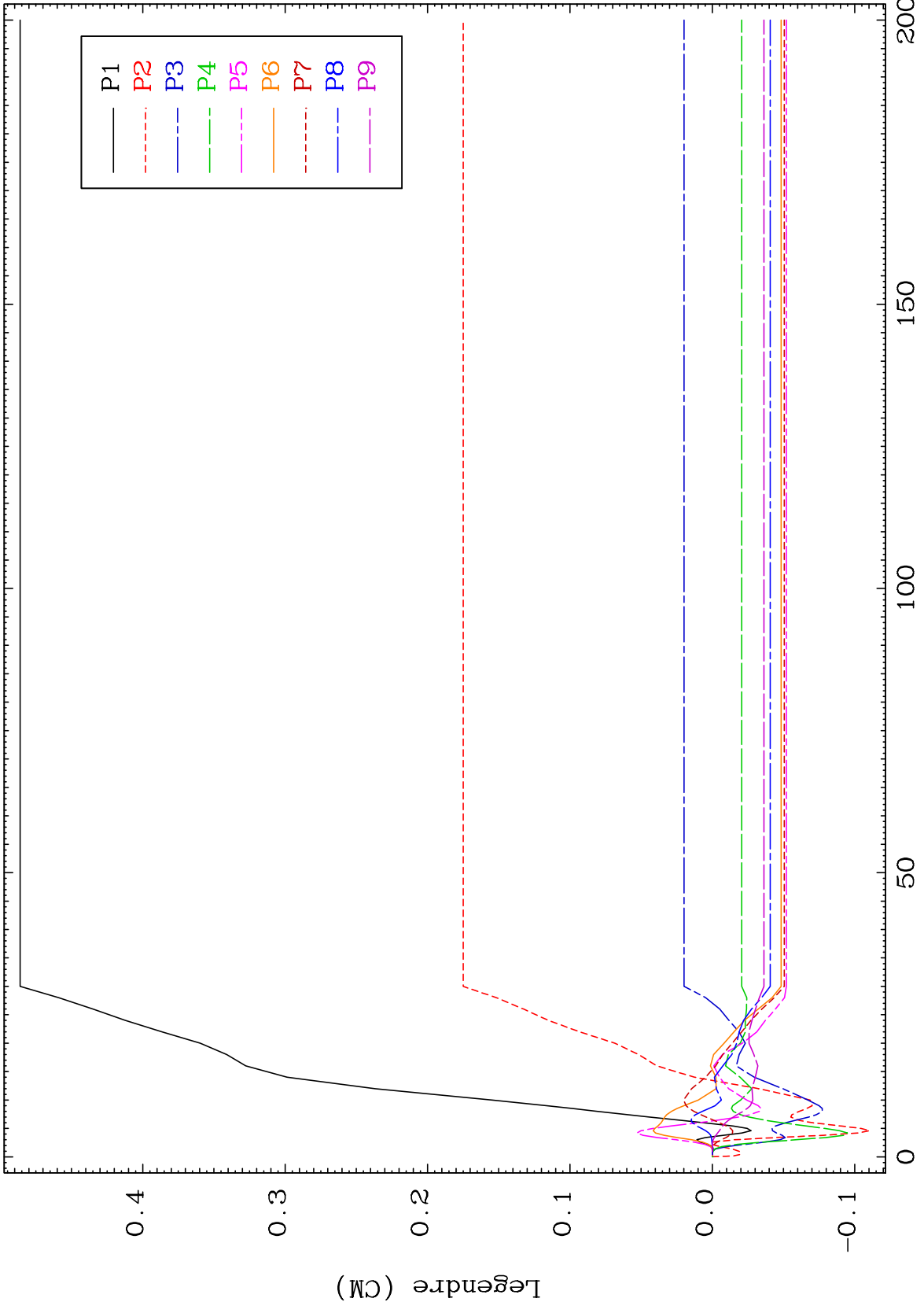


19

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 51 (n,n') Level Legendre Coefficients 71-Lu-180

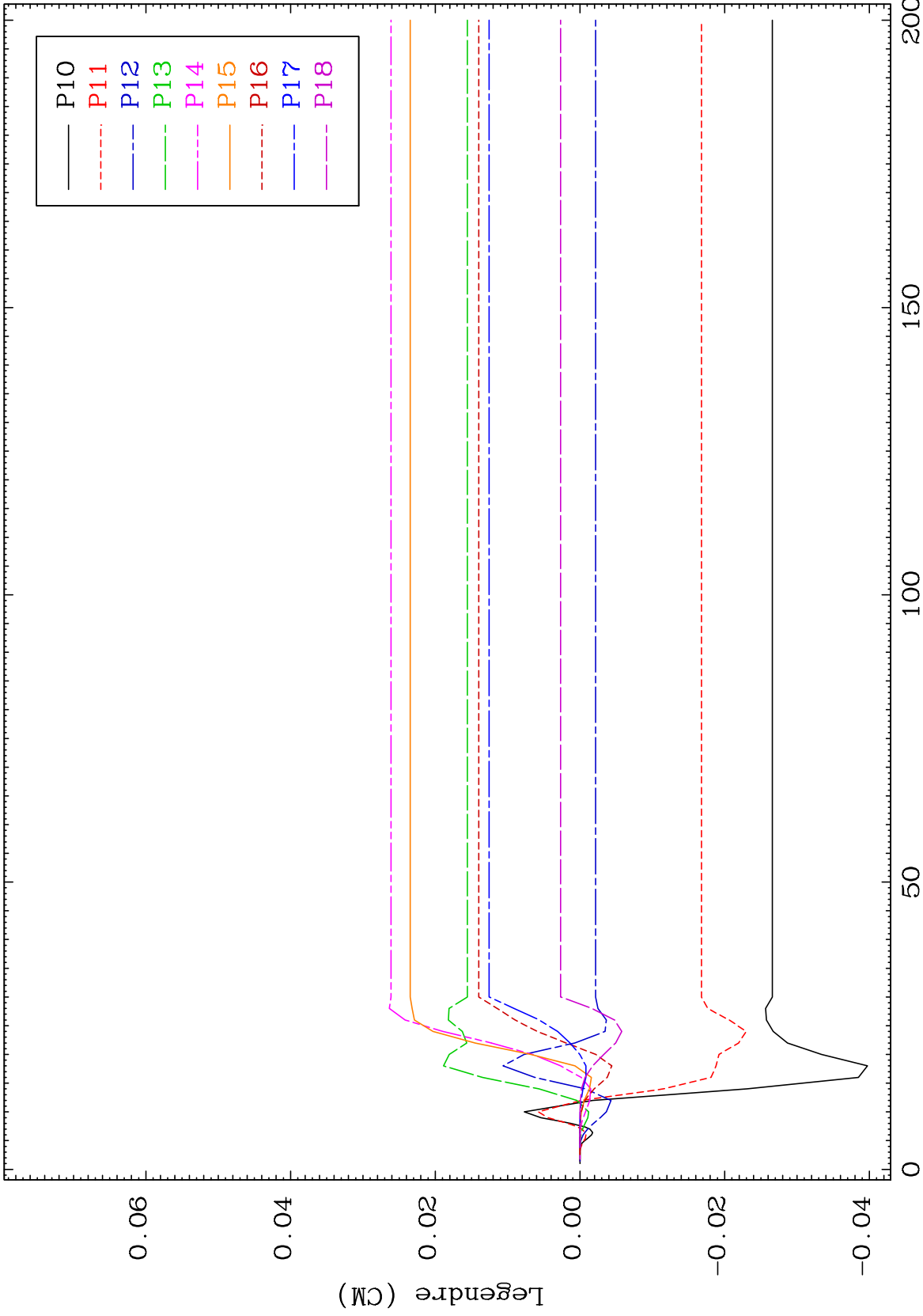


71-Lu-180

MAT 7140

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

71-Lu-180



21

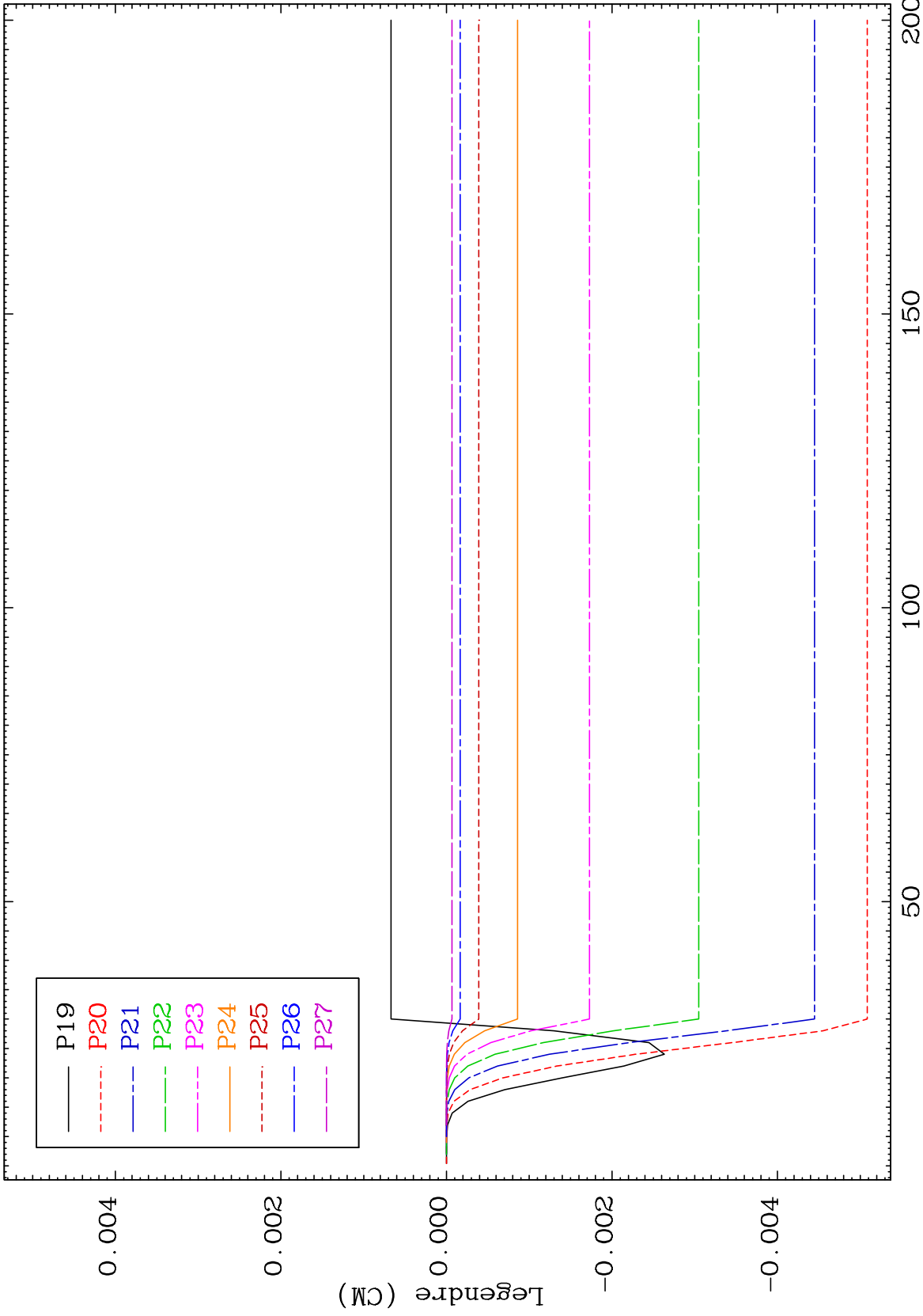
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



22

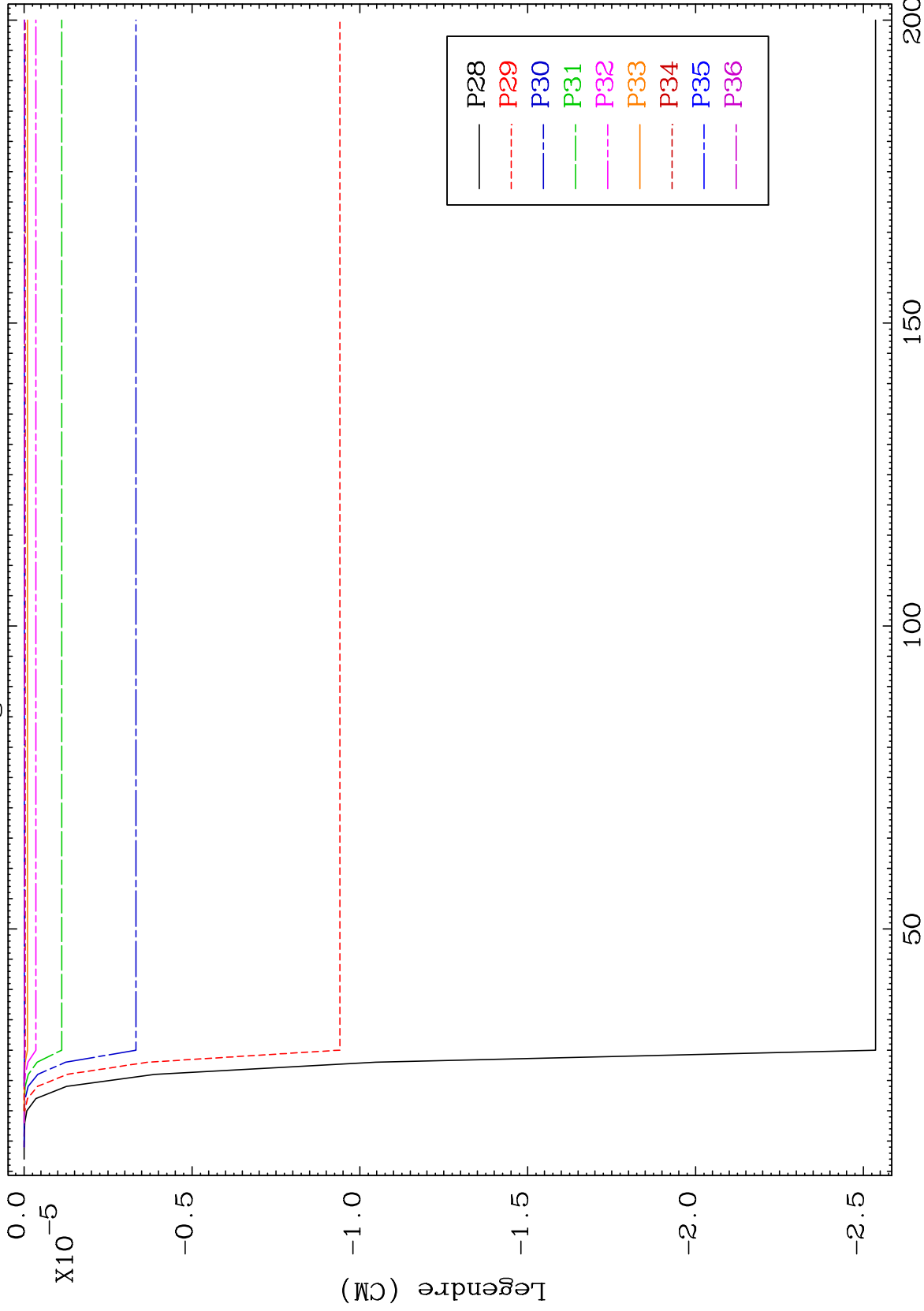
71-Lu-180

71-Lu-180

MAT 7140

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

71-Lu-180

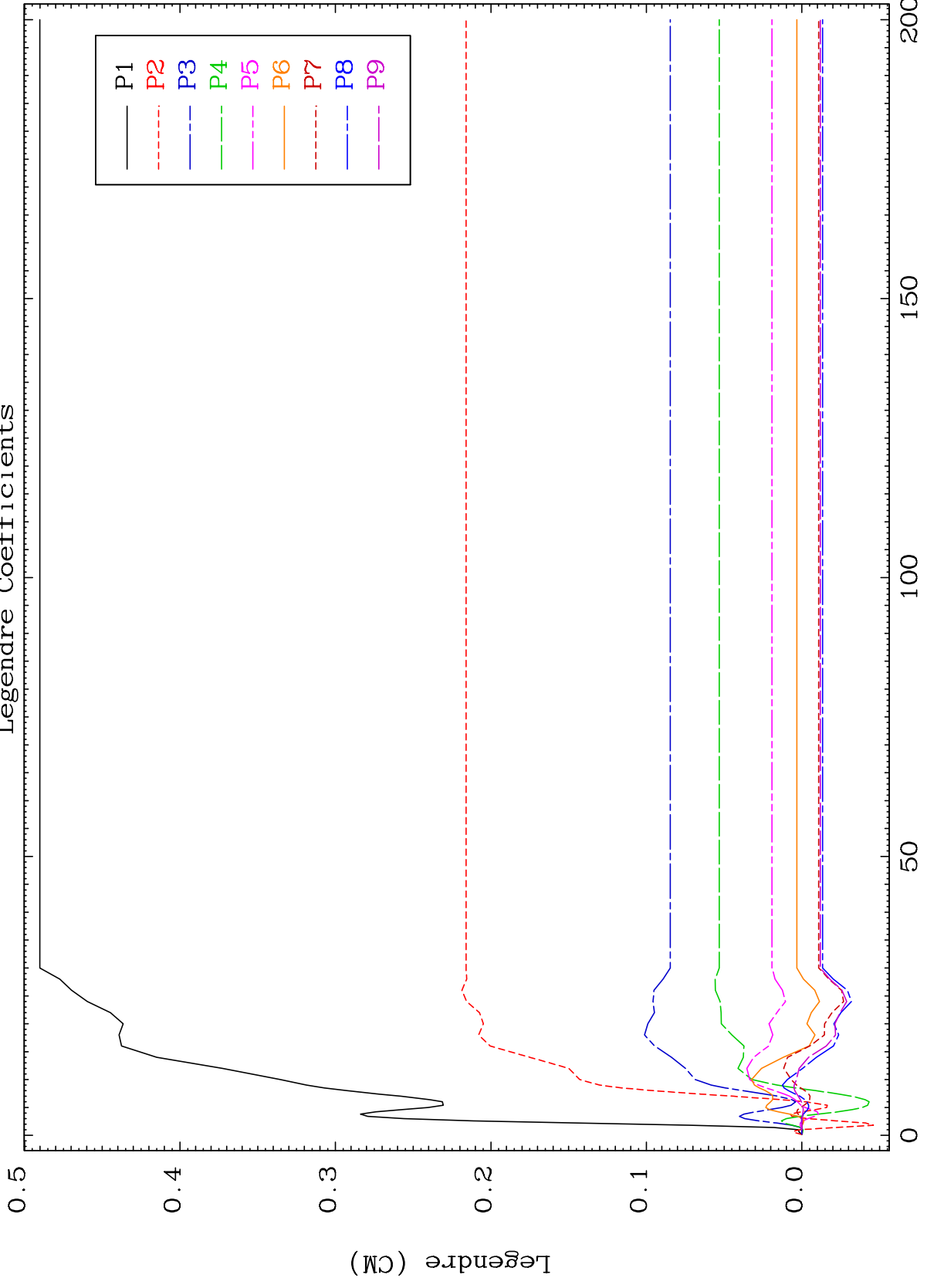


23

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 52 (n,n') Level Legendre Coefficients 71-Lu-180

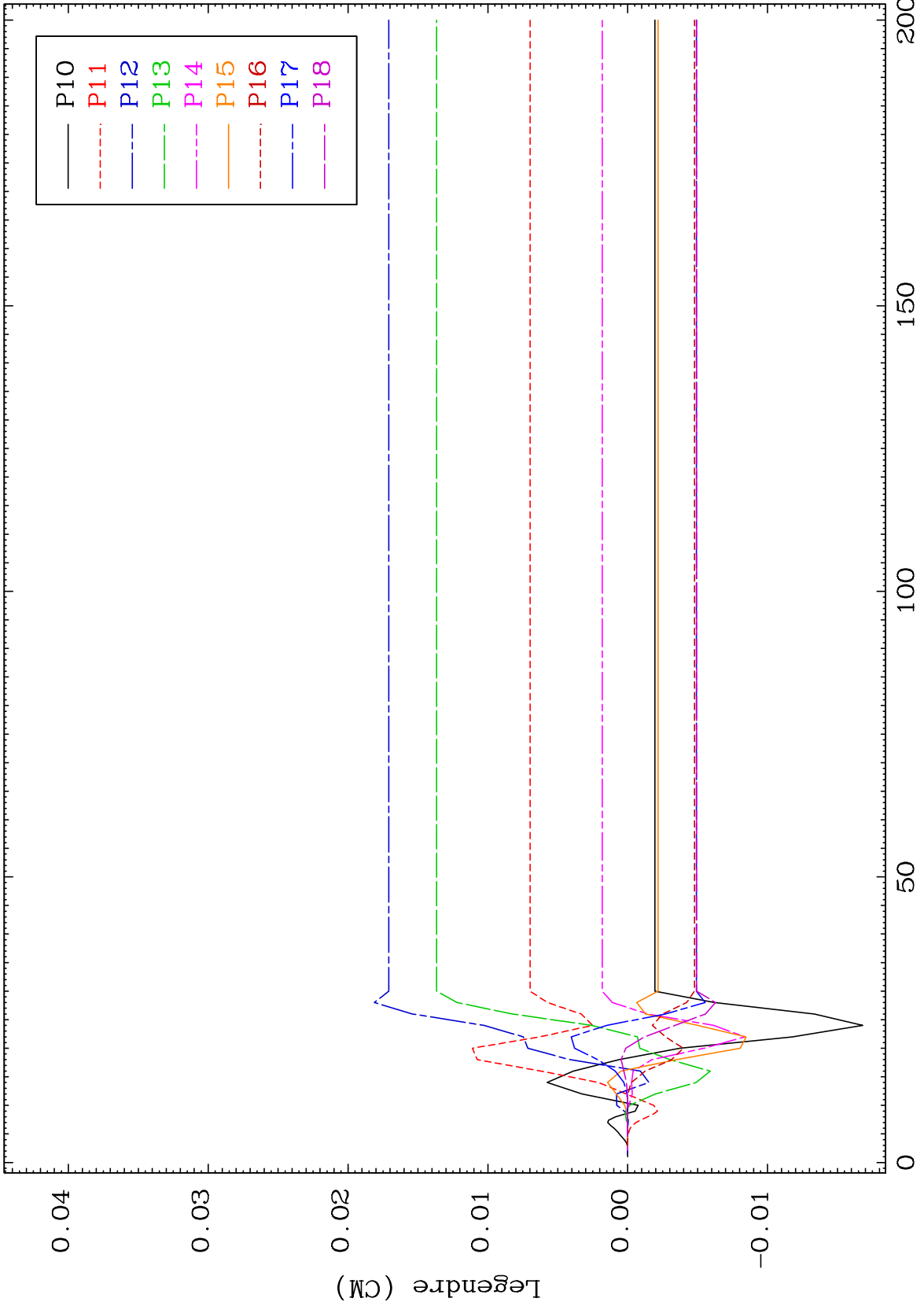


24 Incident Energy (MeV) 71-Lu-180

MAT 7140

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

71-Lu-180



25

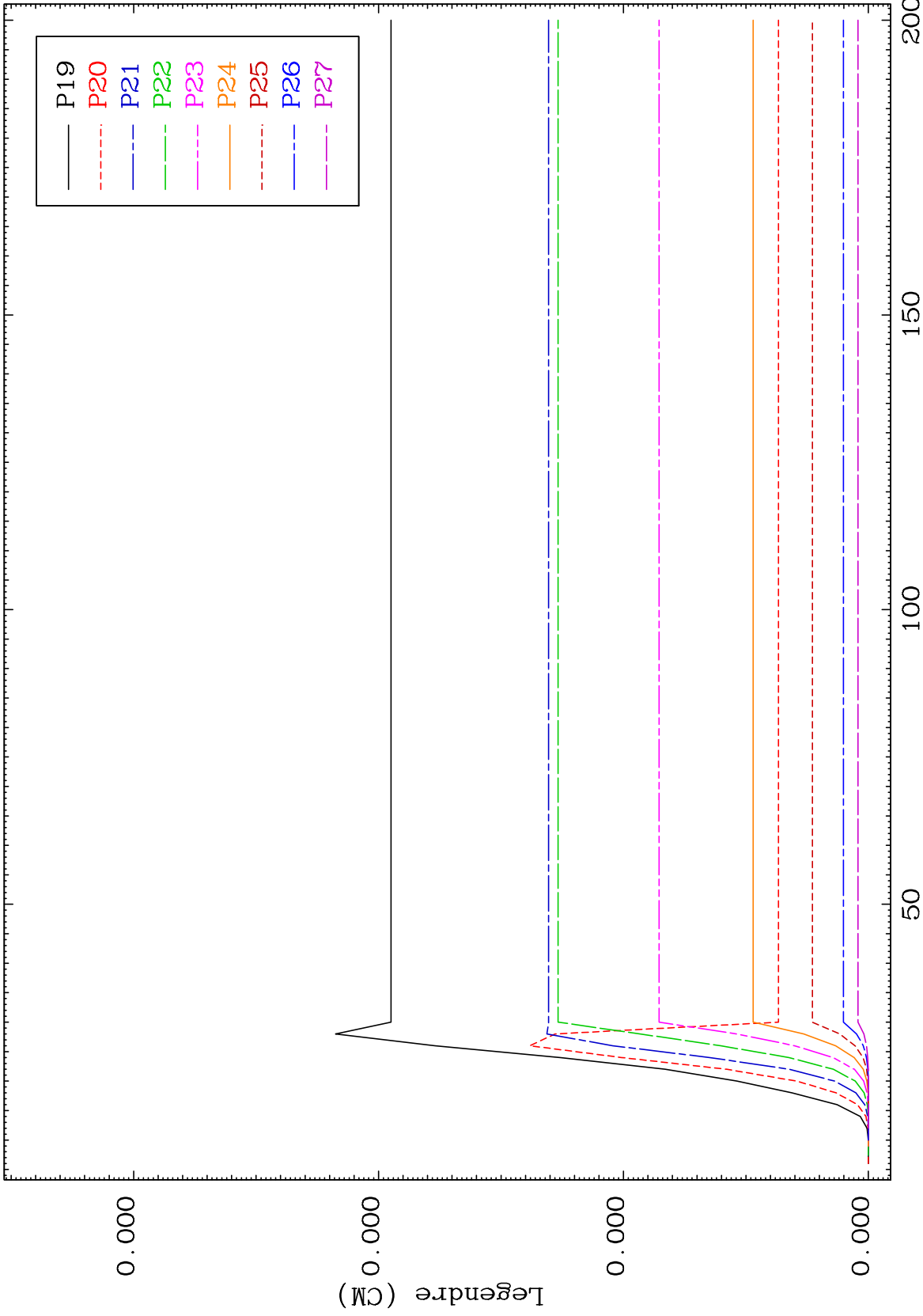
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

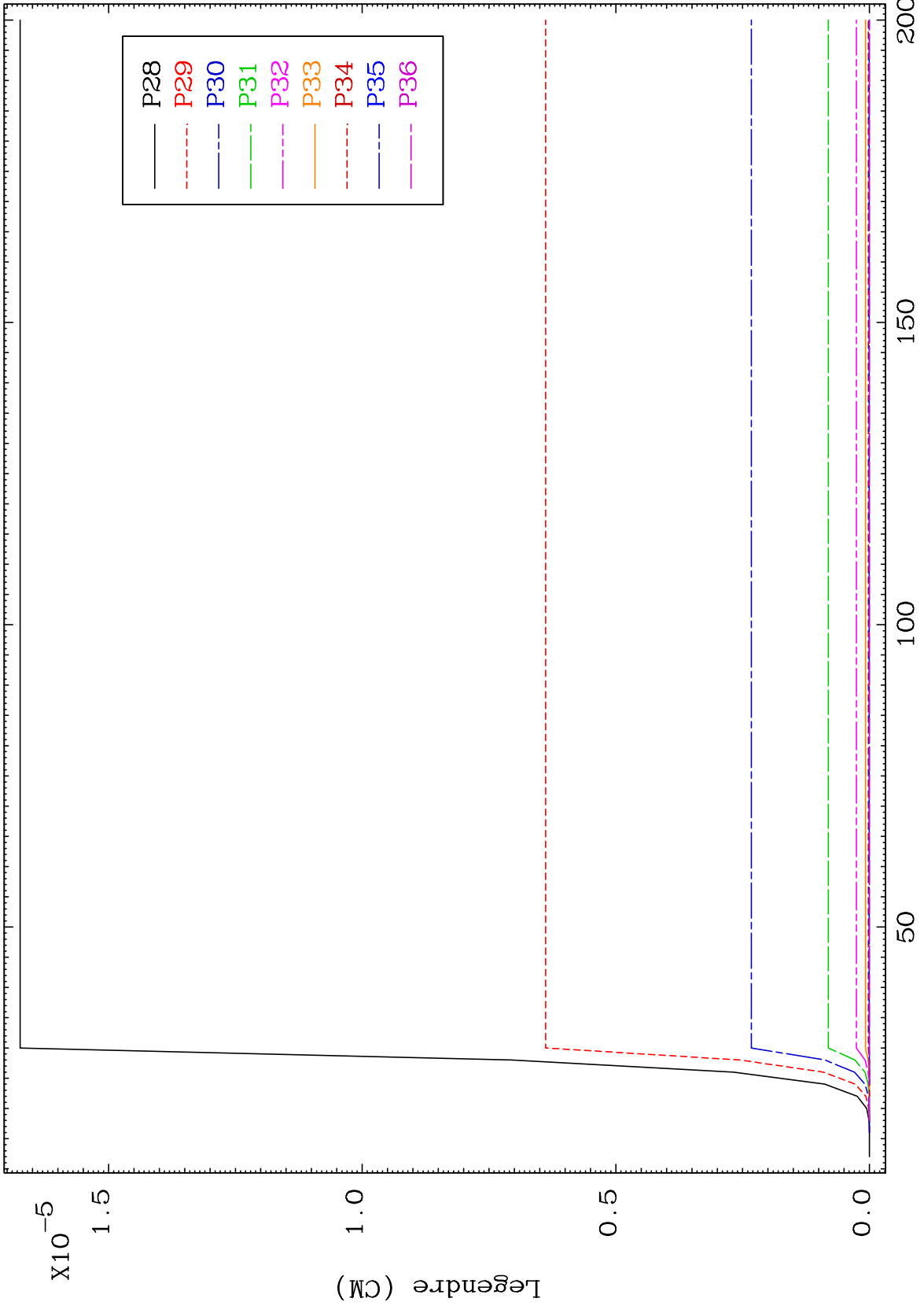
71-Lu-180



26

71-Lu-180

MAT 7140 MT= 52 (n,n') Level Legendre Coefficients 71-Lu-180

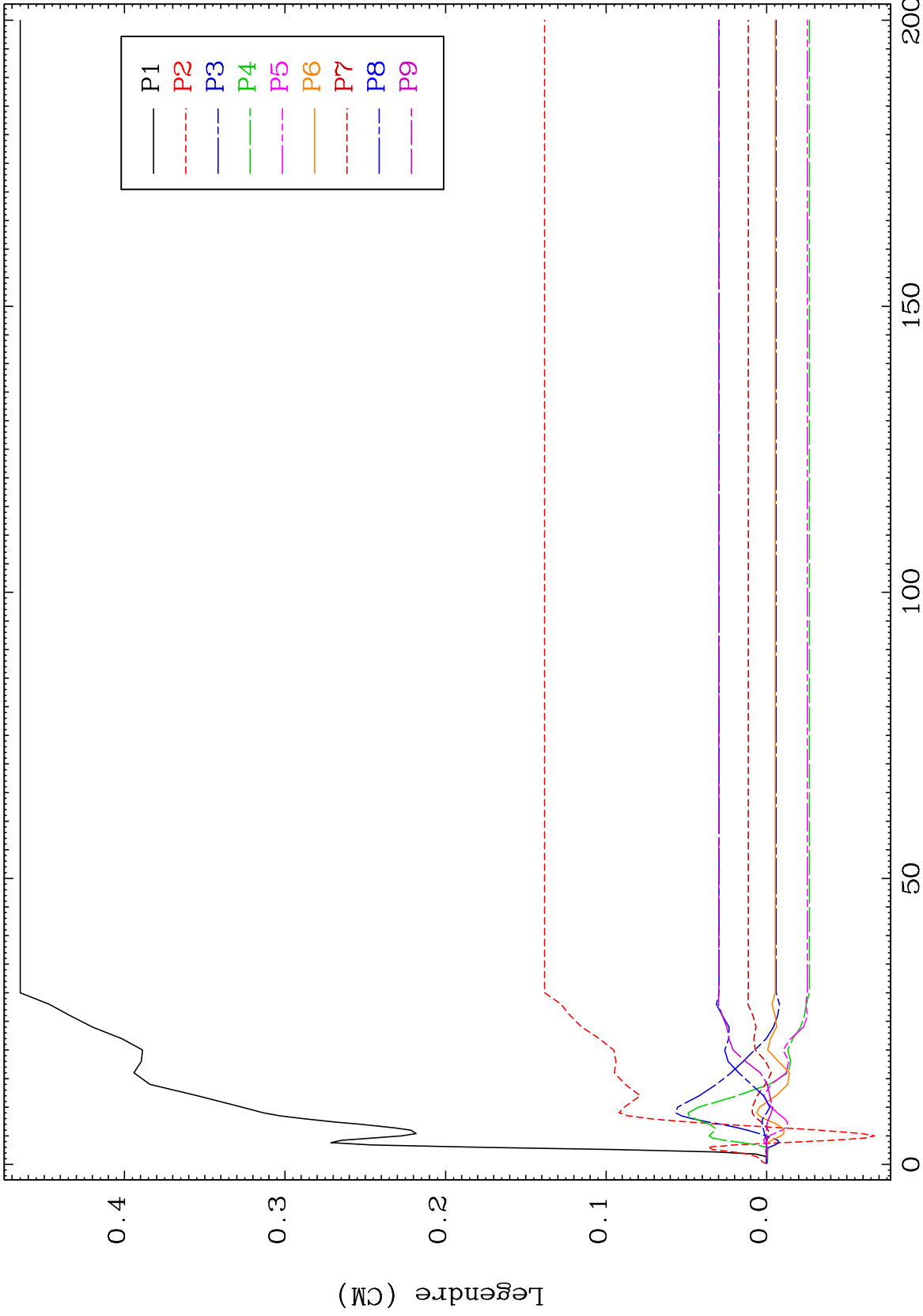


27 Incident Energy (MeV) 71-Lu-180

MAT 7140

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

71-Lu-180



28

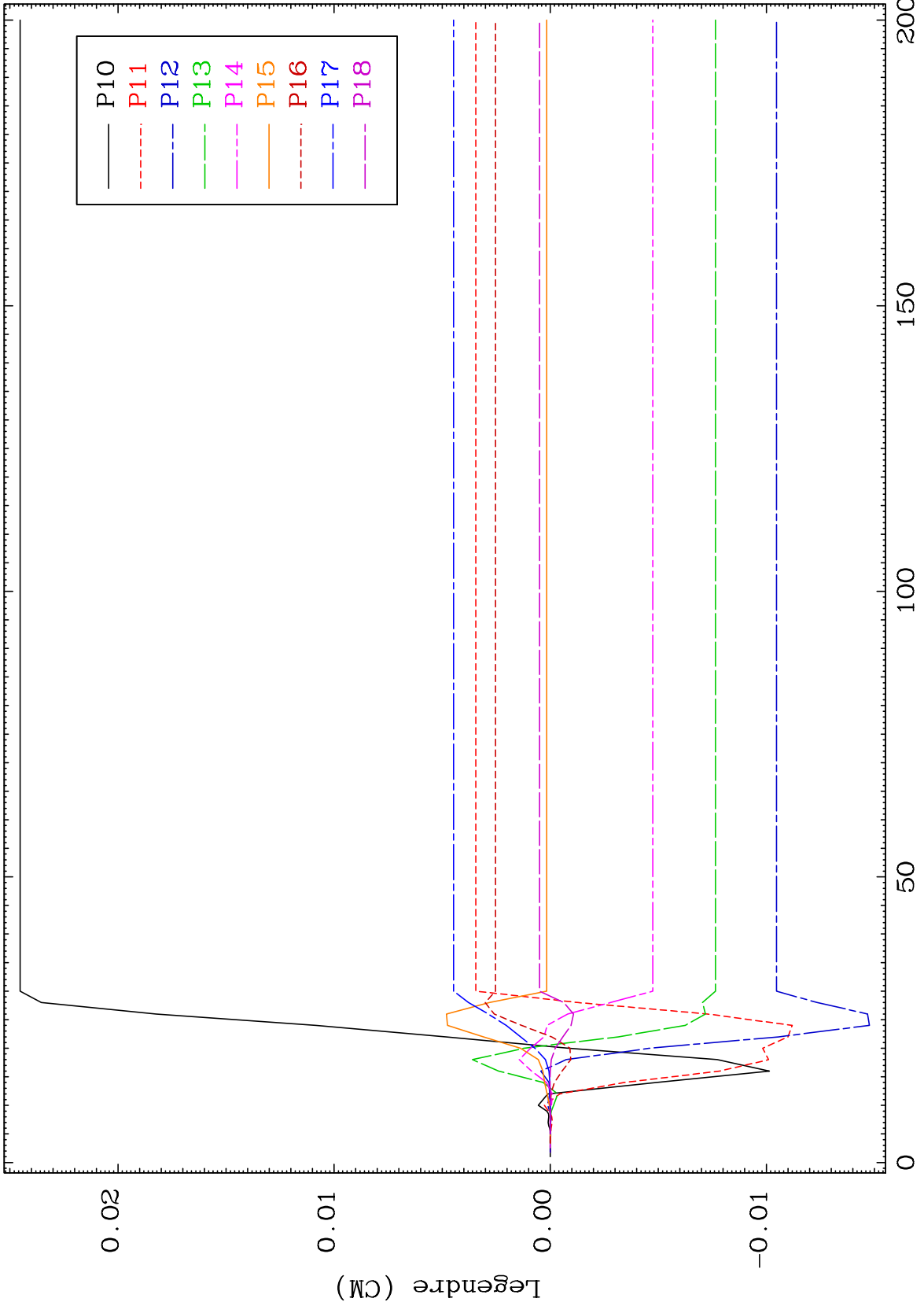
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



29

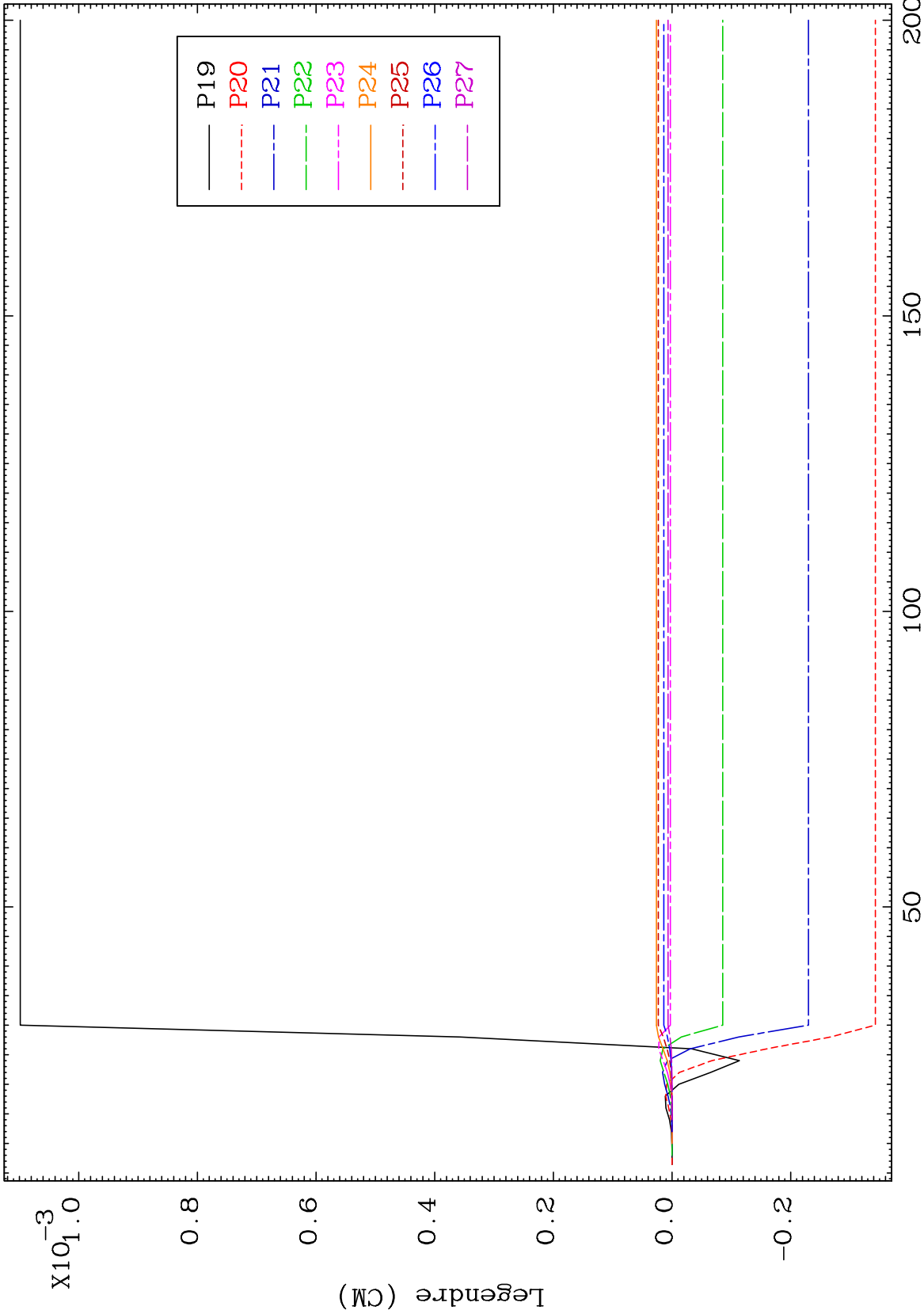
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



30

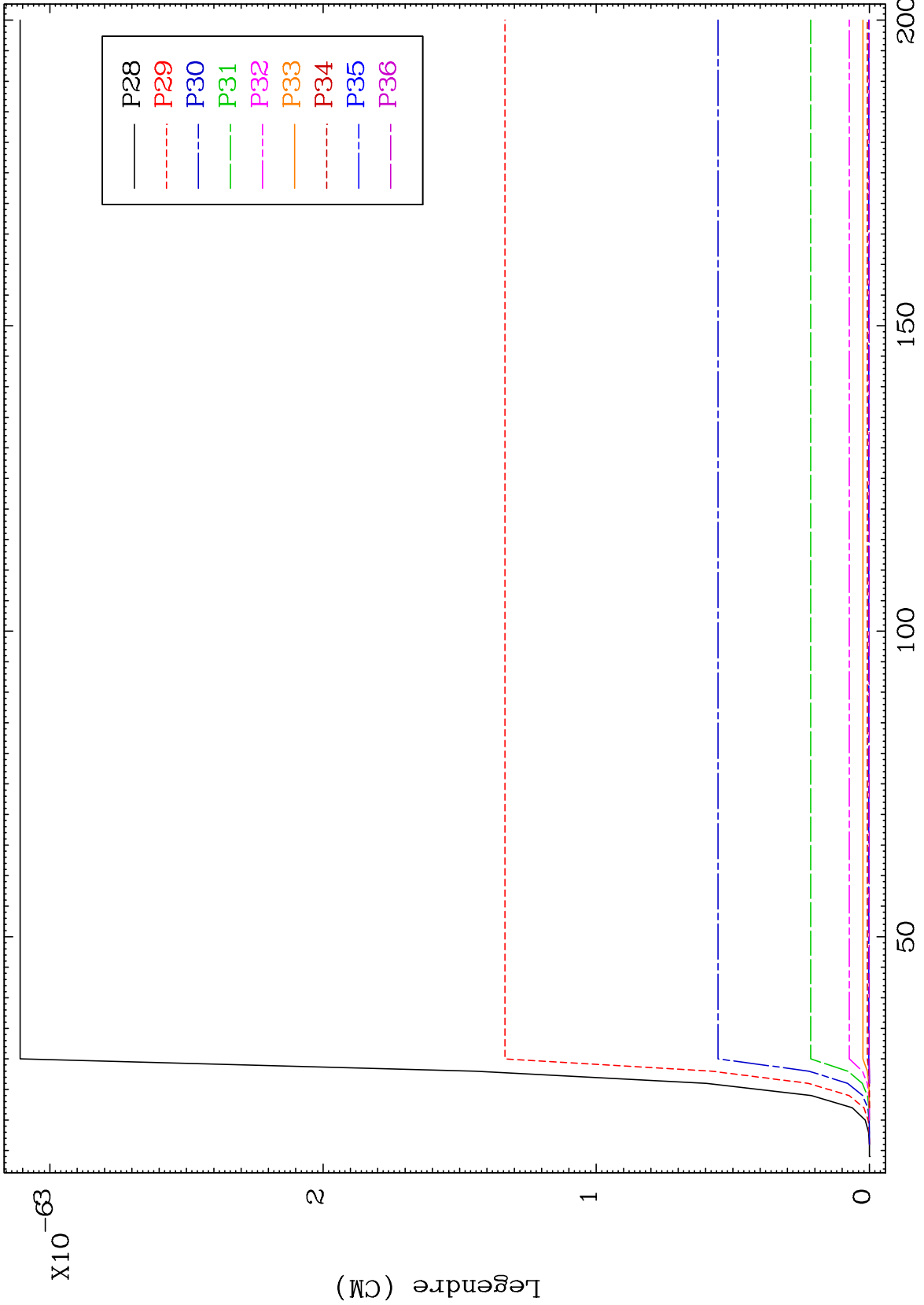
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



31

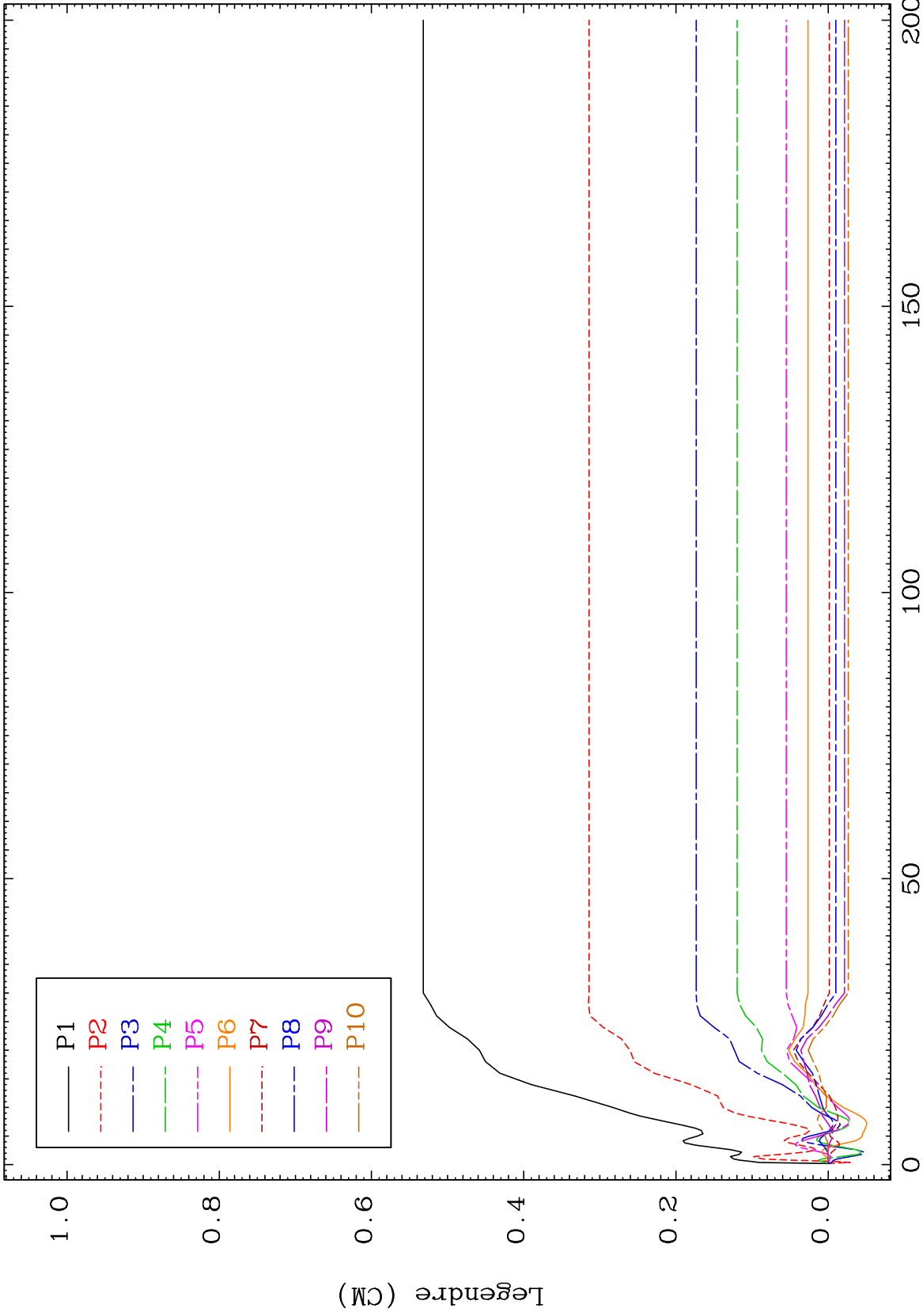
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



32

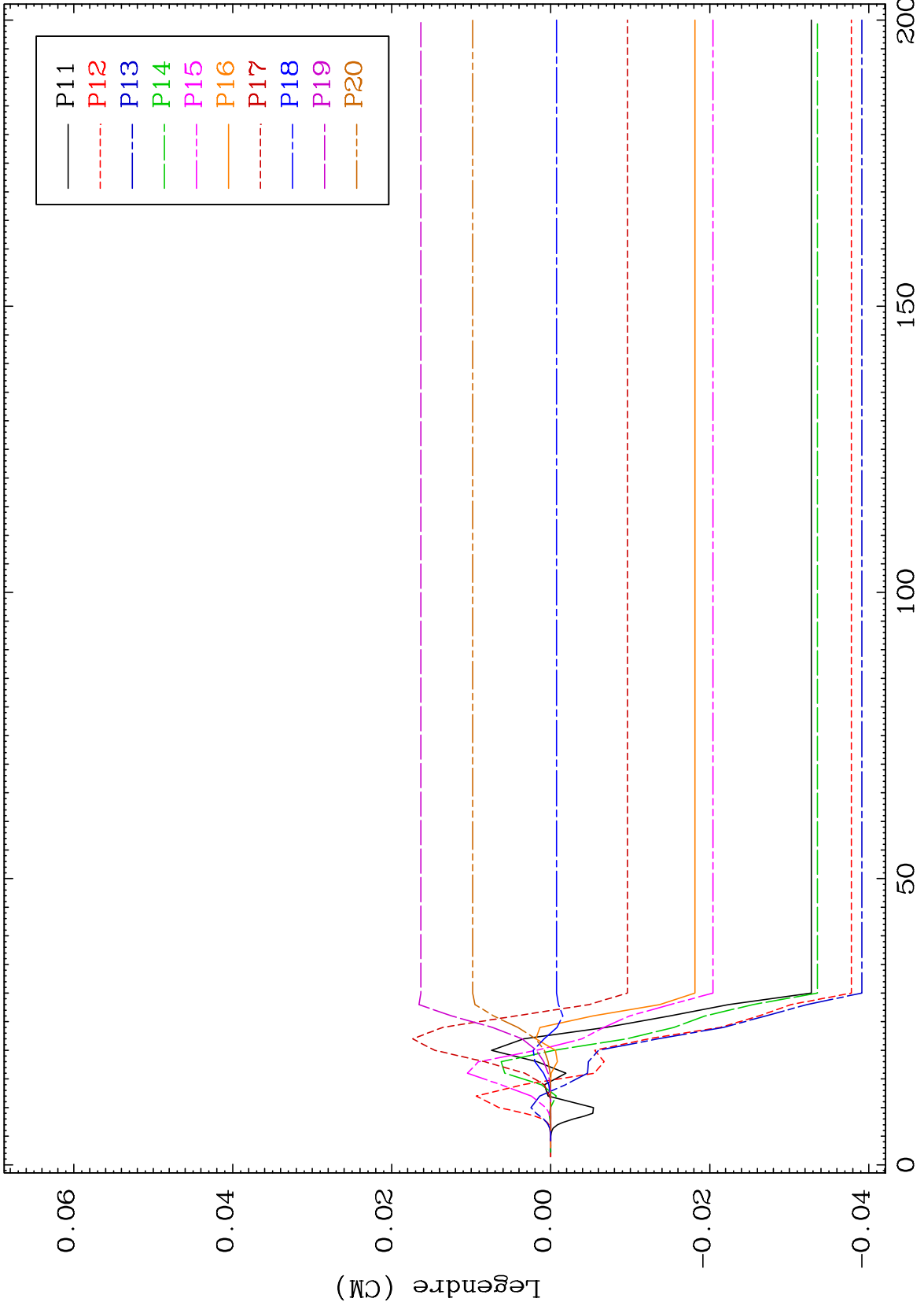
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



33

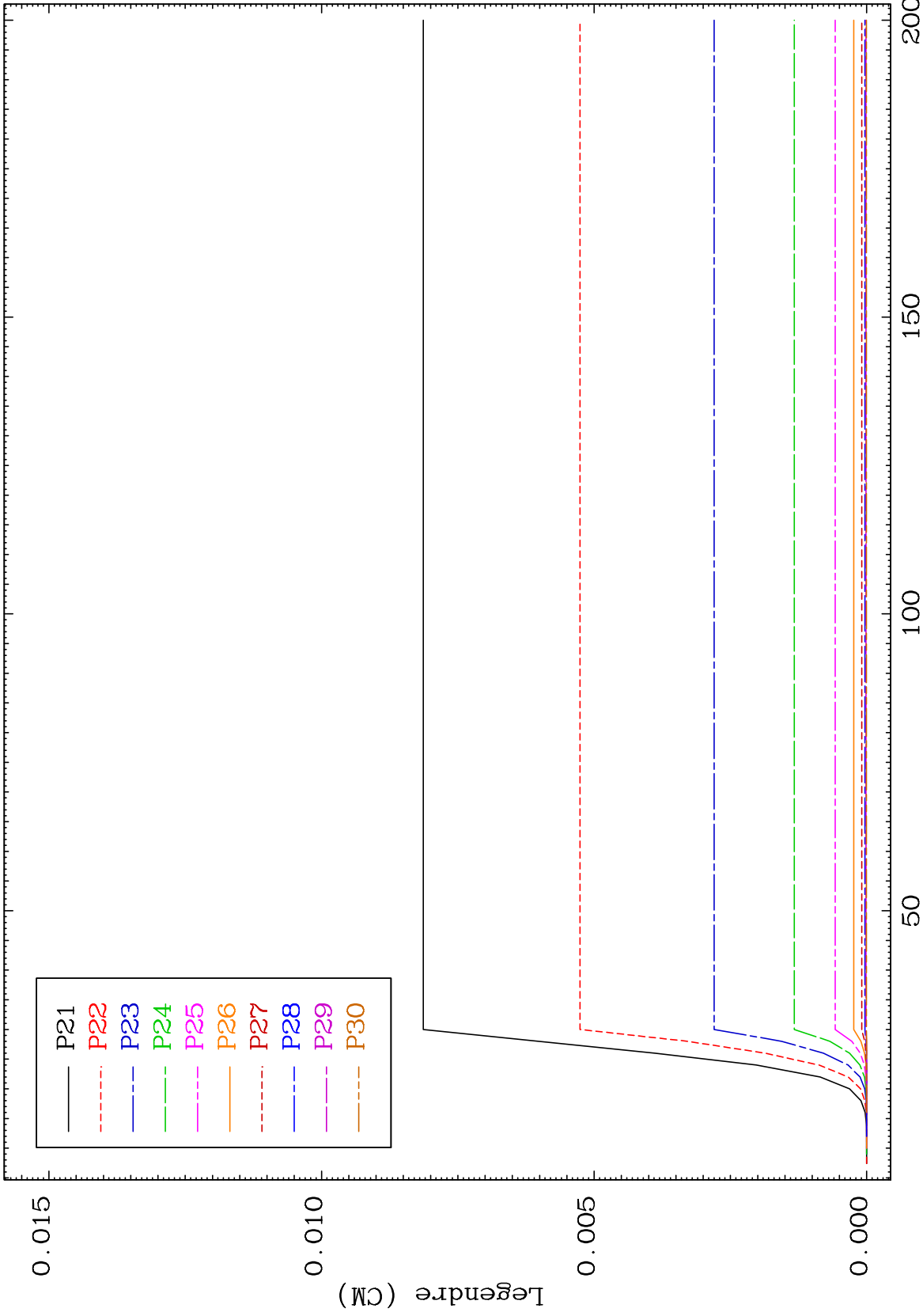
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



34

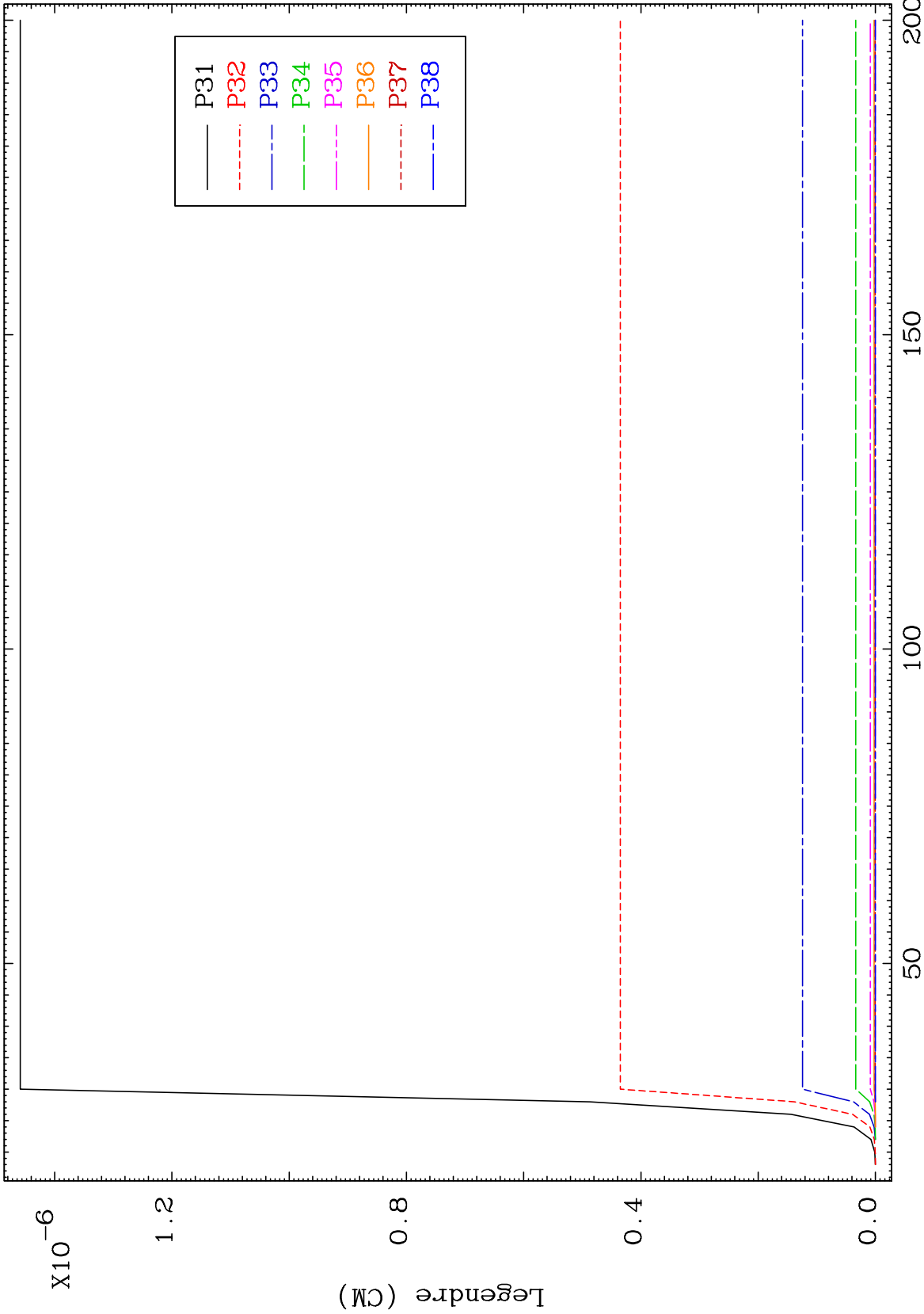
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



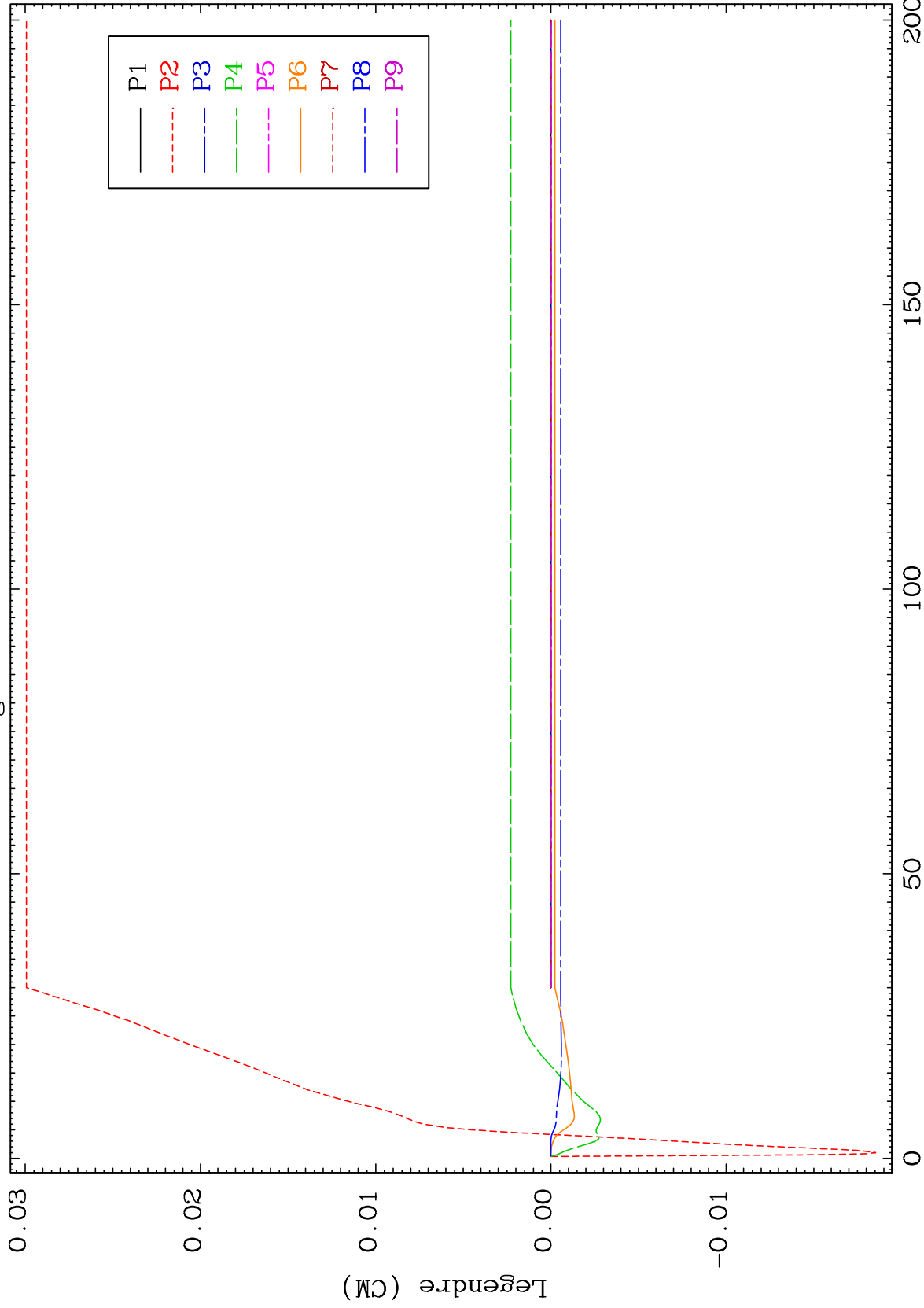
35

71-Lu-180

MAT 7140

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

71-Lu-180



36

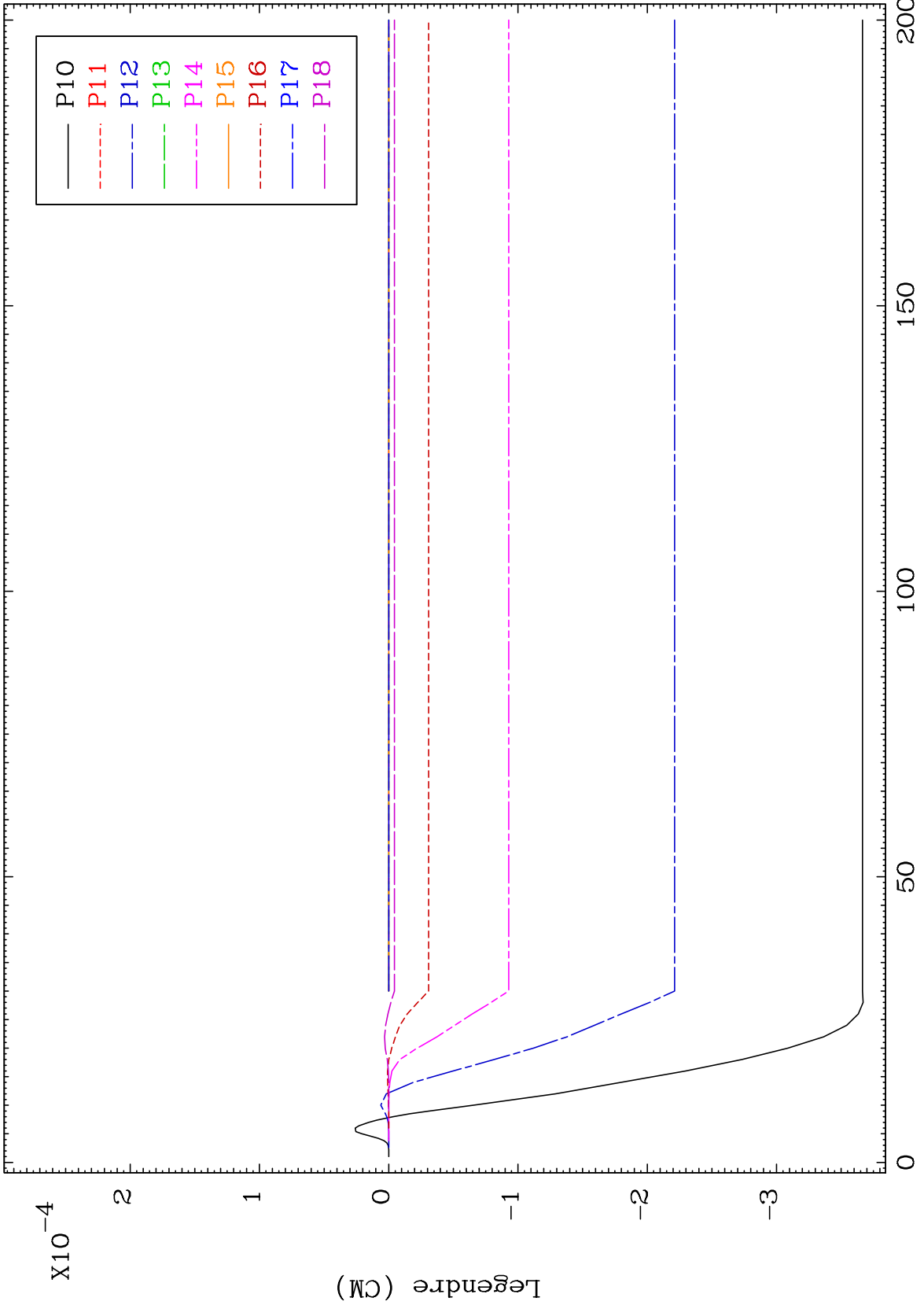
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180

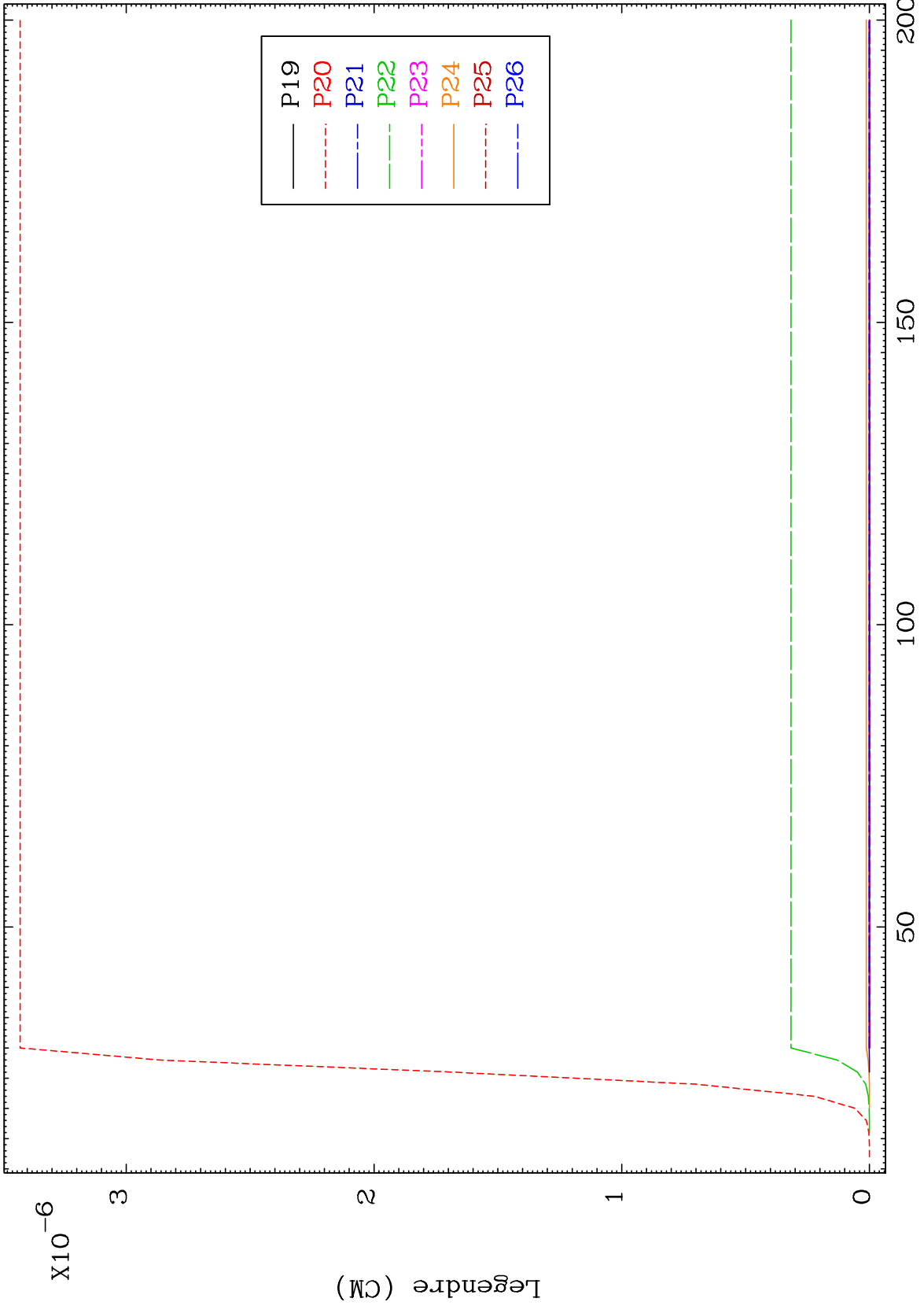


37

Incident Energy (MeV)

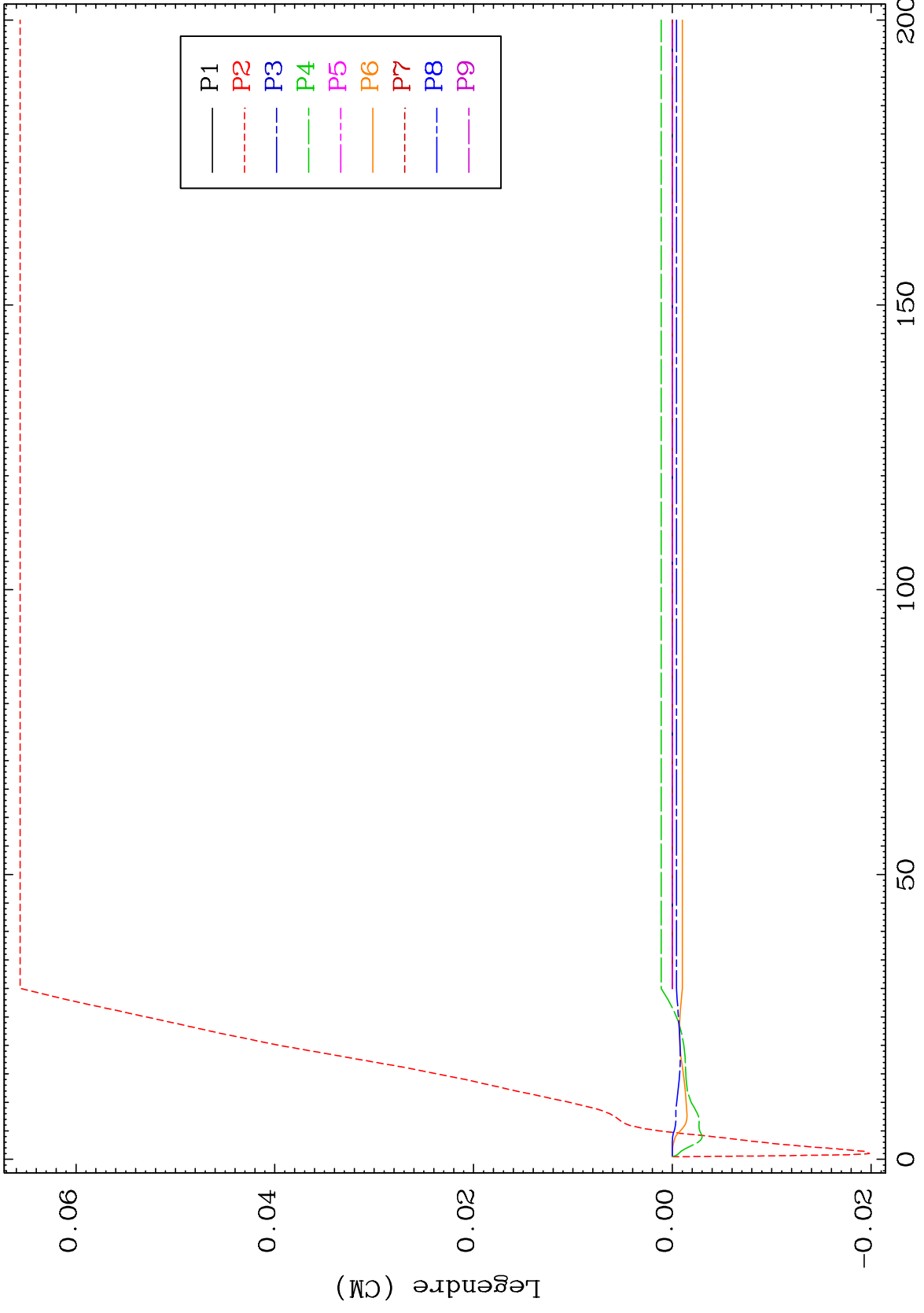
71-Lu-180

MAT 7140 MT= 55 (n,n') Level Legendre Coefficients 71-Lu-180



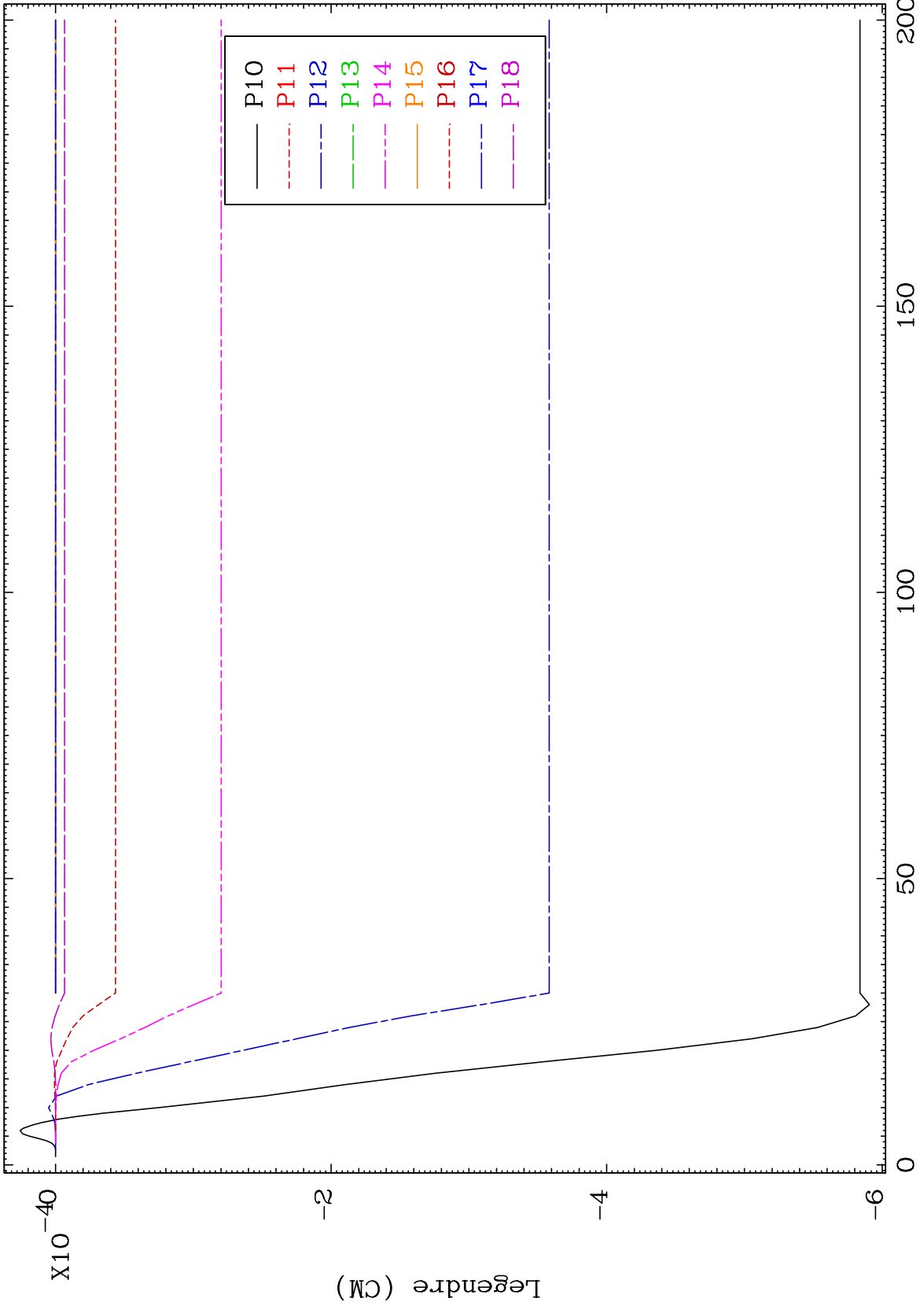
38 Incident Energy (MeV) 71-Lu-180

MAT 7140 MT= 56 (n,n') Level Legendre Coefficients 71-Lu-180



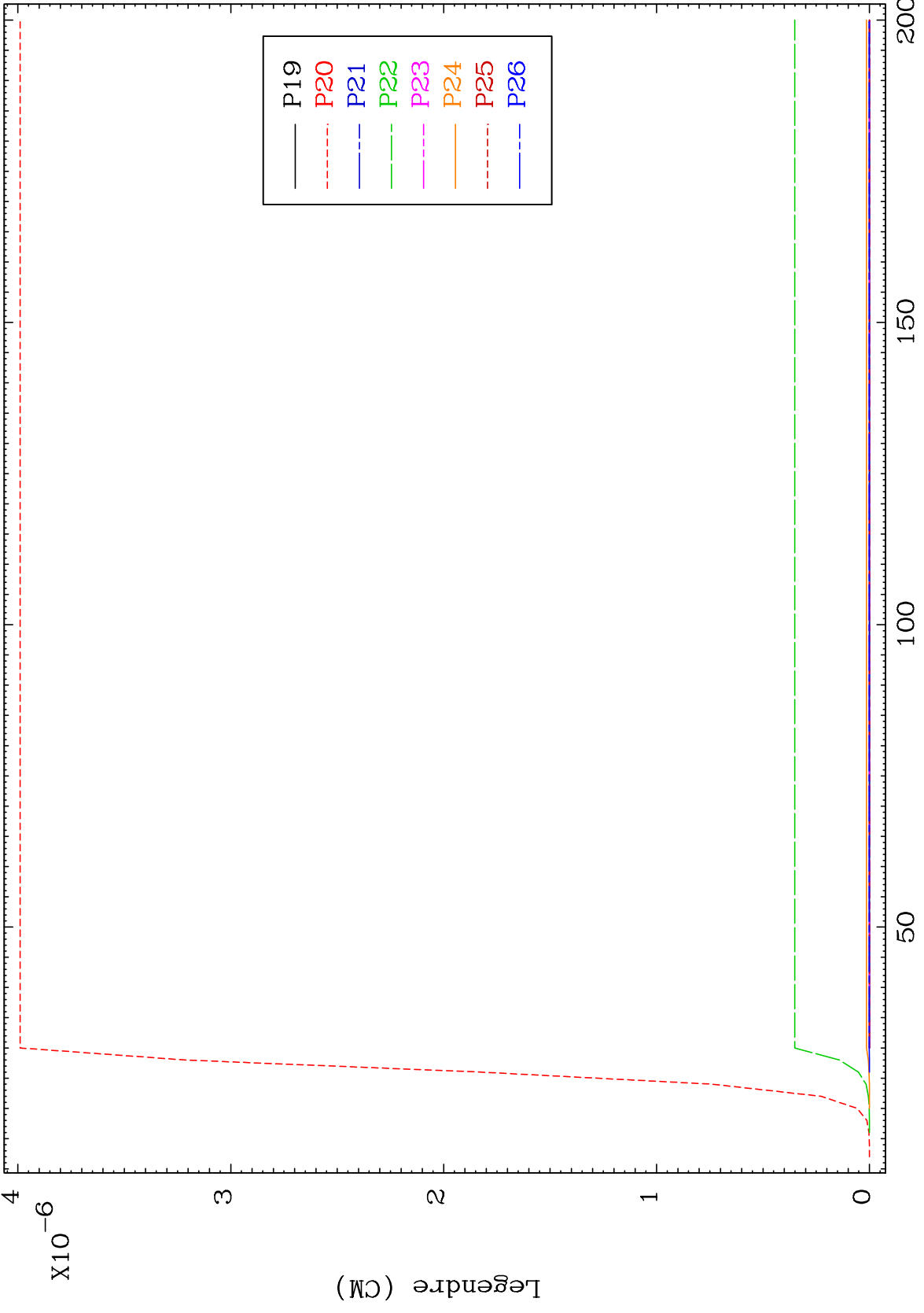
39 71-Lu-180

MAT 7140 MT= 56 (n,n') Level Legendre Coefficients 71-Lu-180



71-Lu-180

MAT 7140 MT= 56 (n,n') Level Legendre Coefficients 71-Lu-180

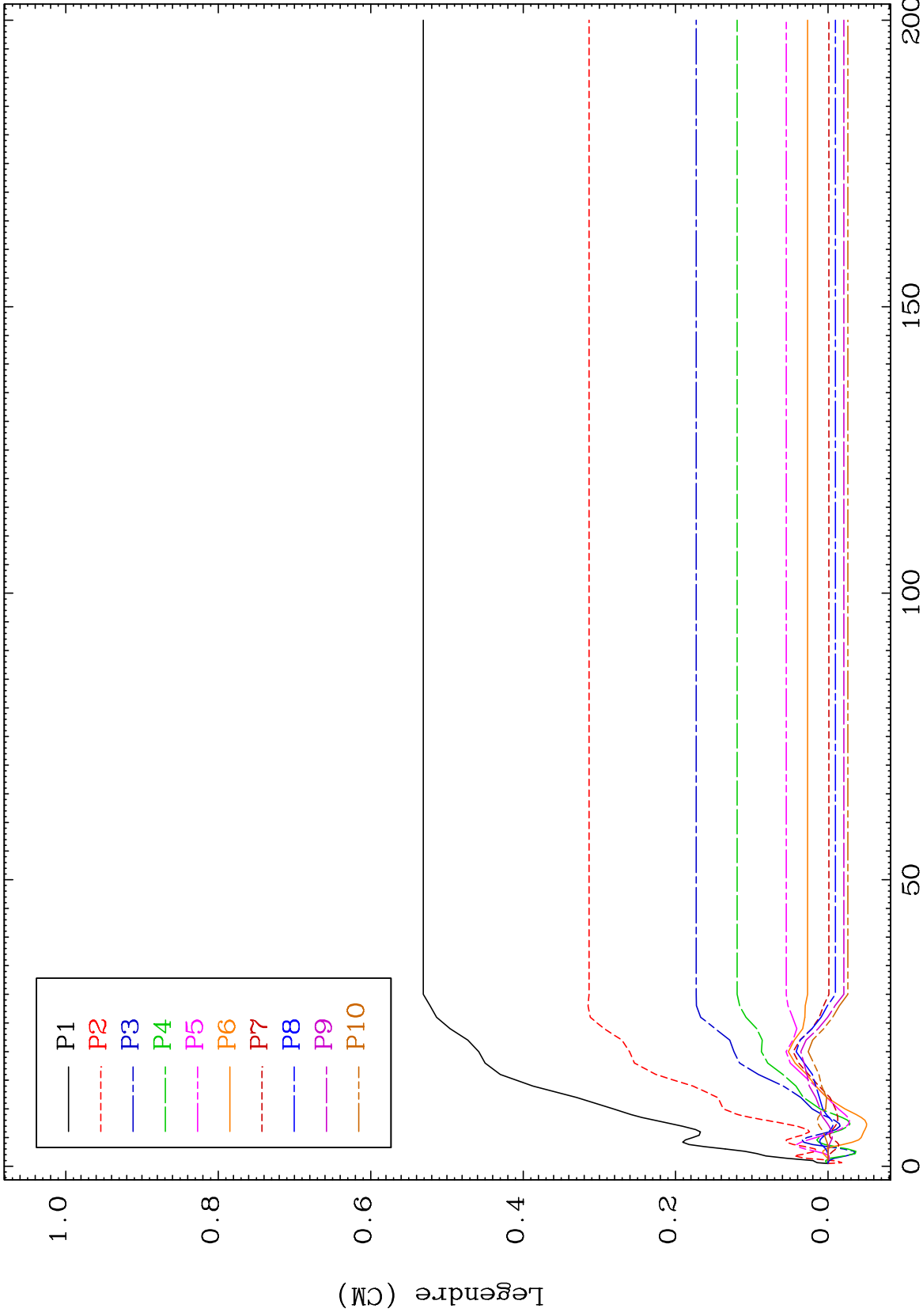


41 Incident Energy (MeV) 71-Lu-180

MAT 7140

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

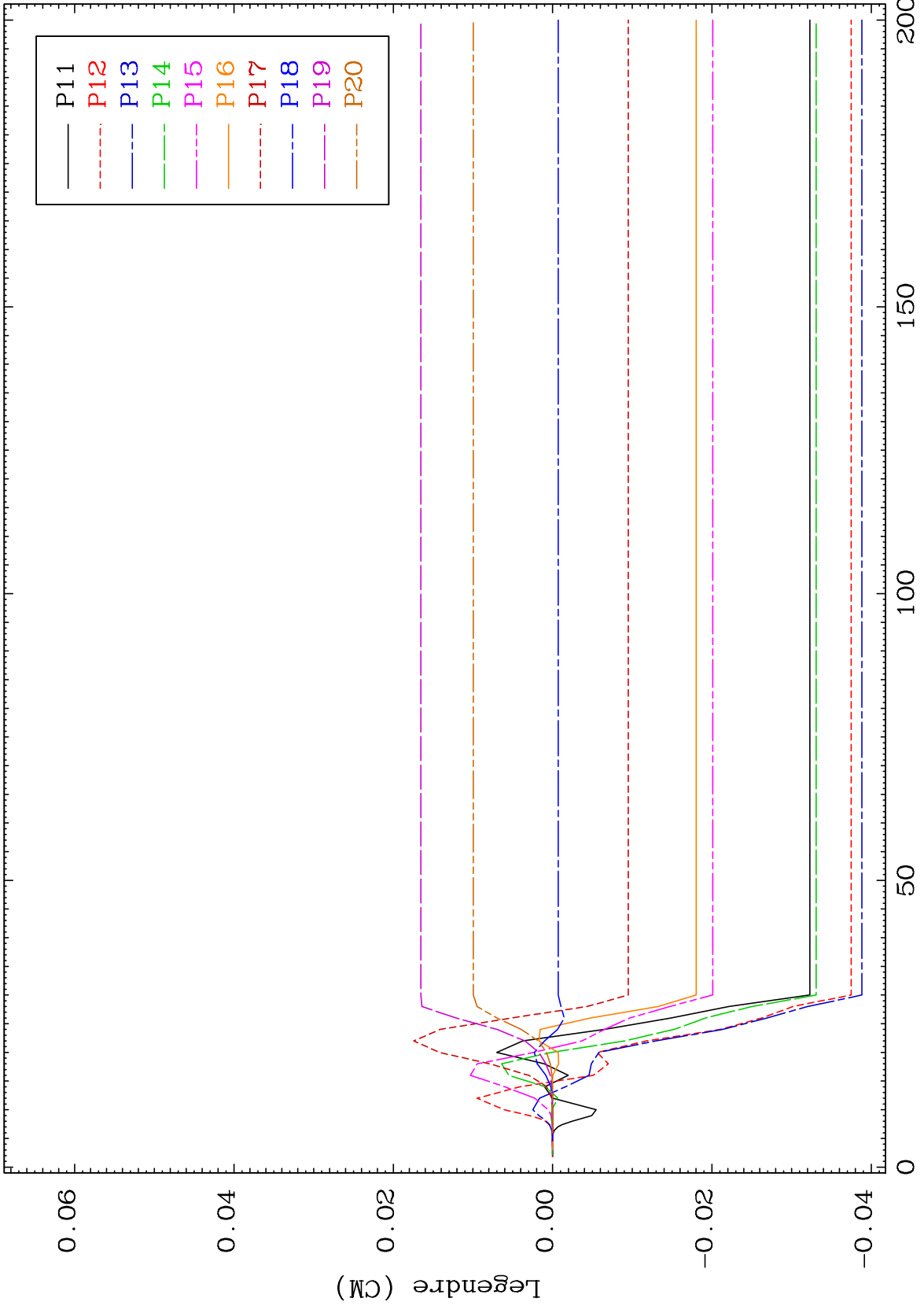
71-Lu-180



MAT 7140

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

71-Lu-180



43

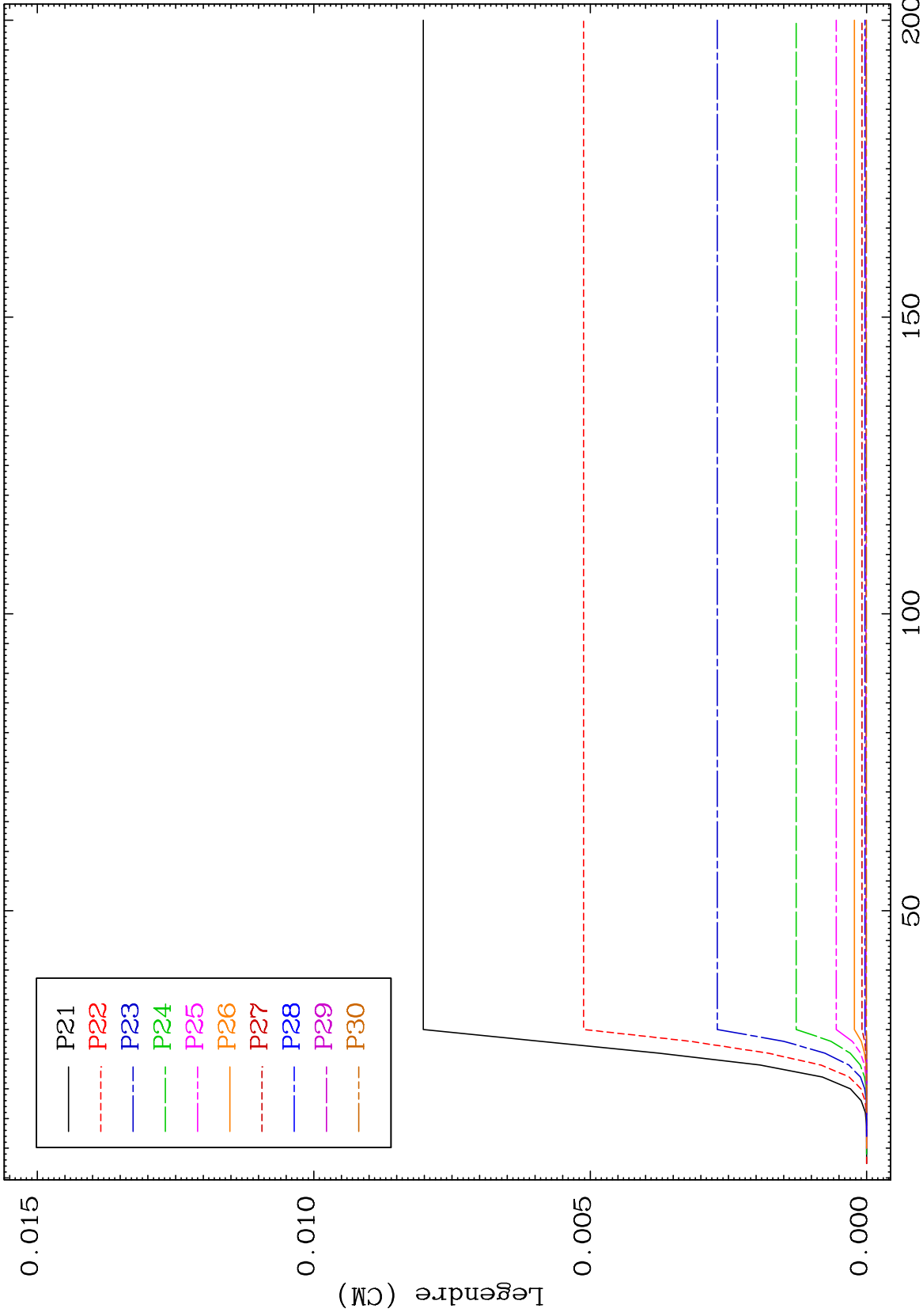
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

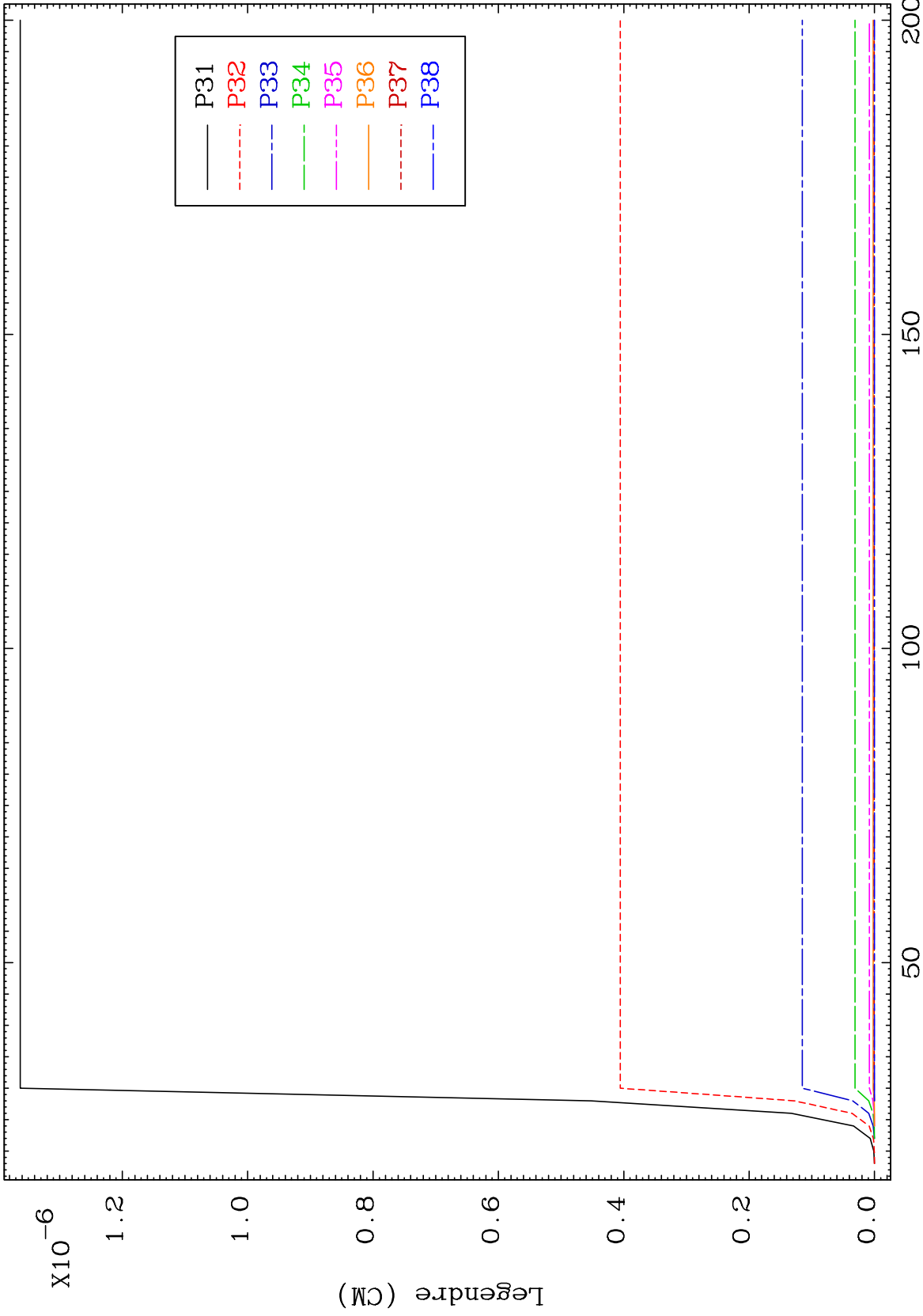
71-Lu-180



MAT 7140

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

71-Lu-180



45

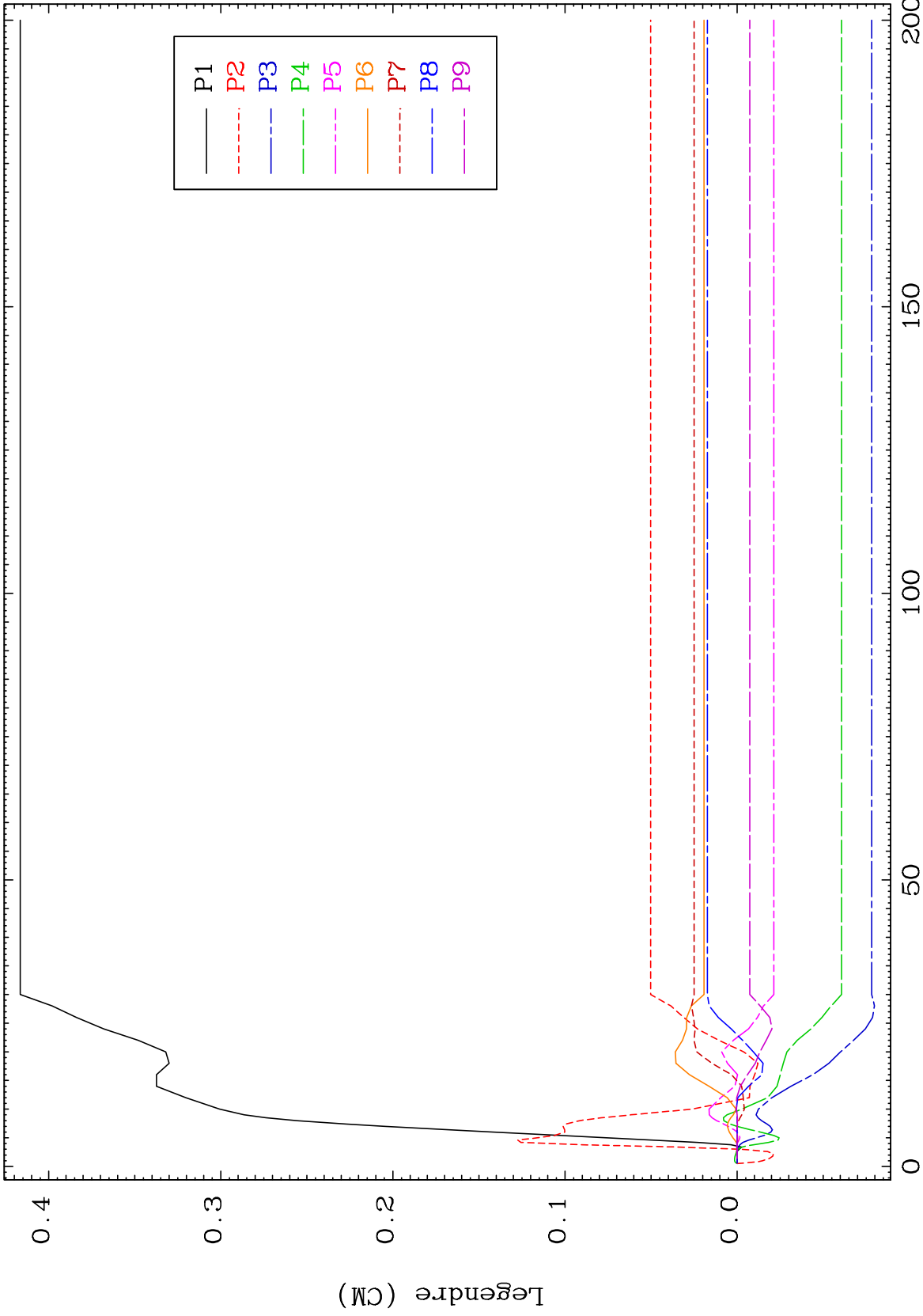
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180

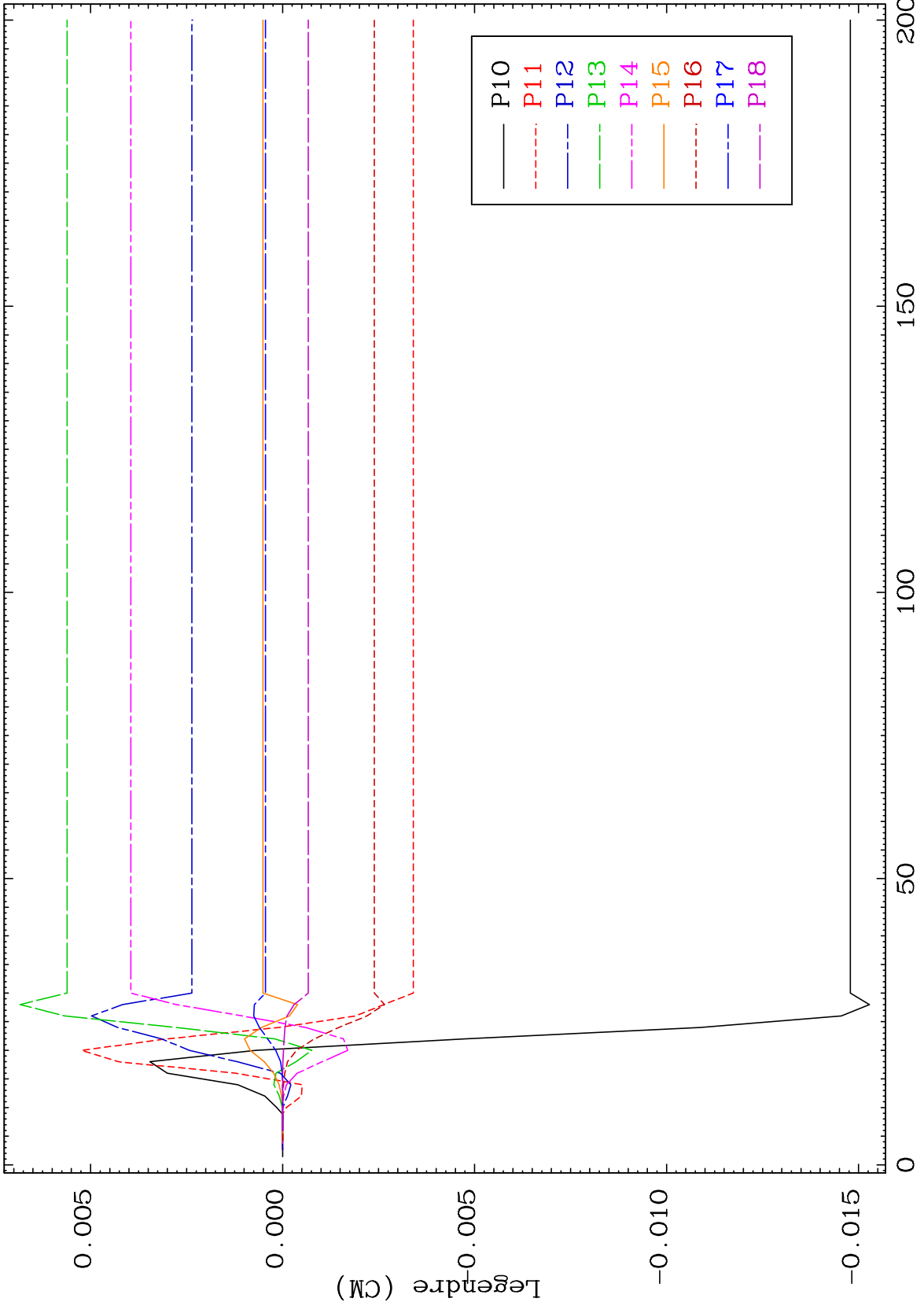


46

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 58 (n,n') Level Legendre Coefficients 71-Lu-180

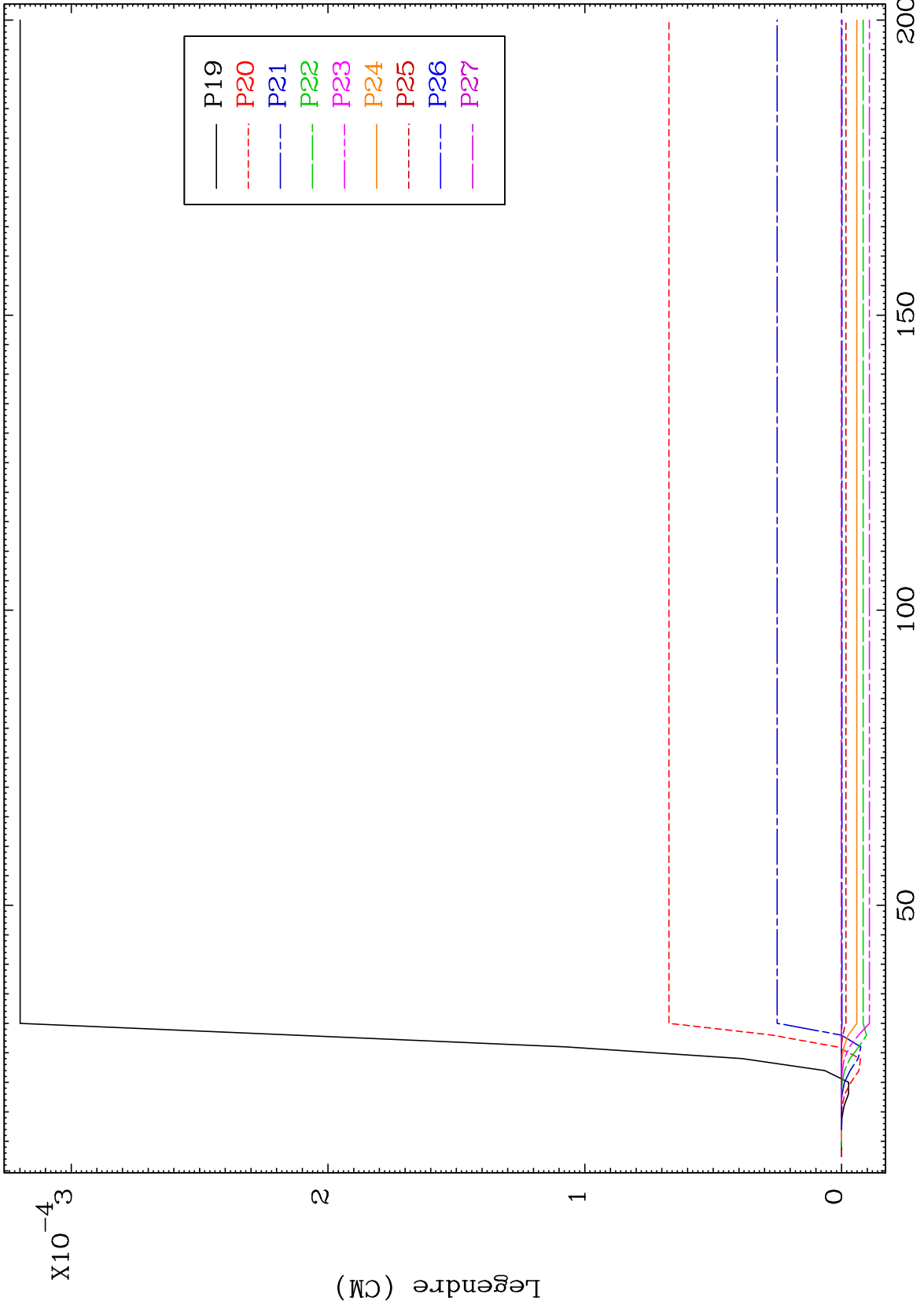


47 71-Lu-180

MAT 7140

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

71-Lu-180



48

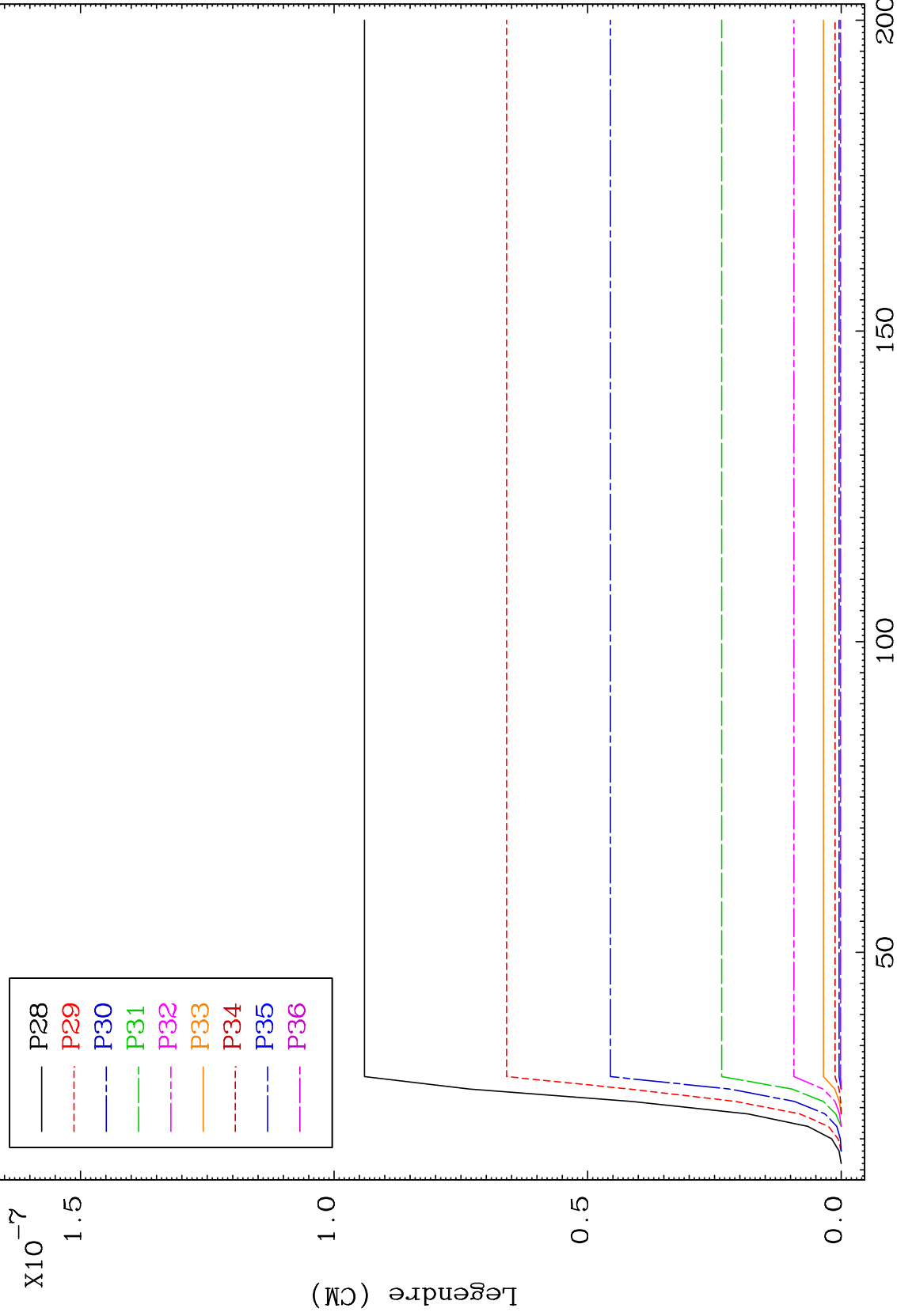
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

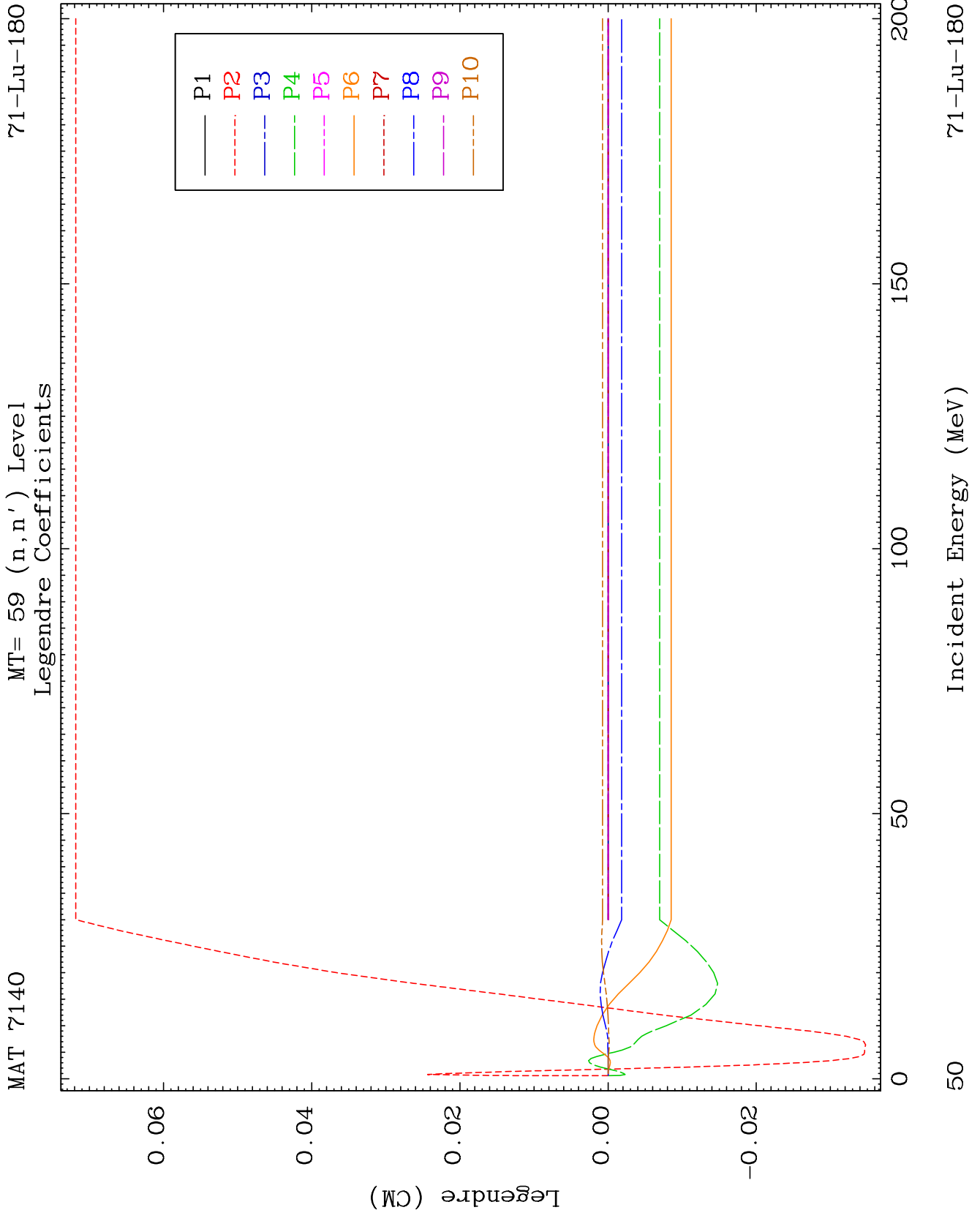
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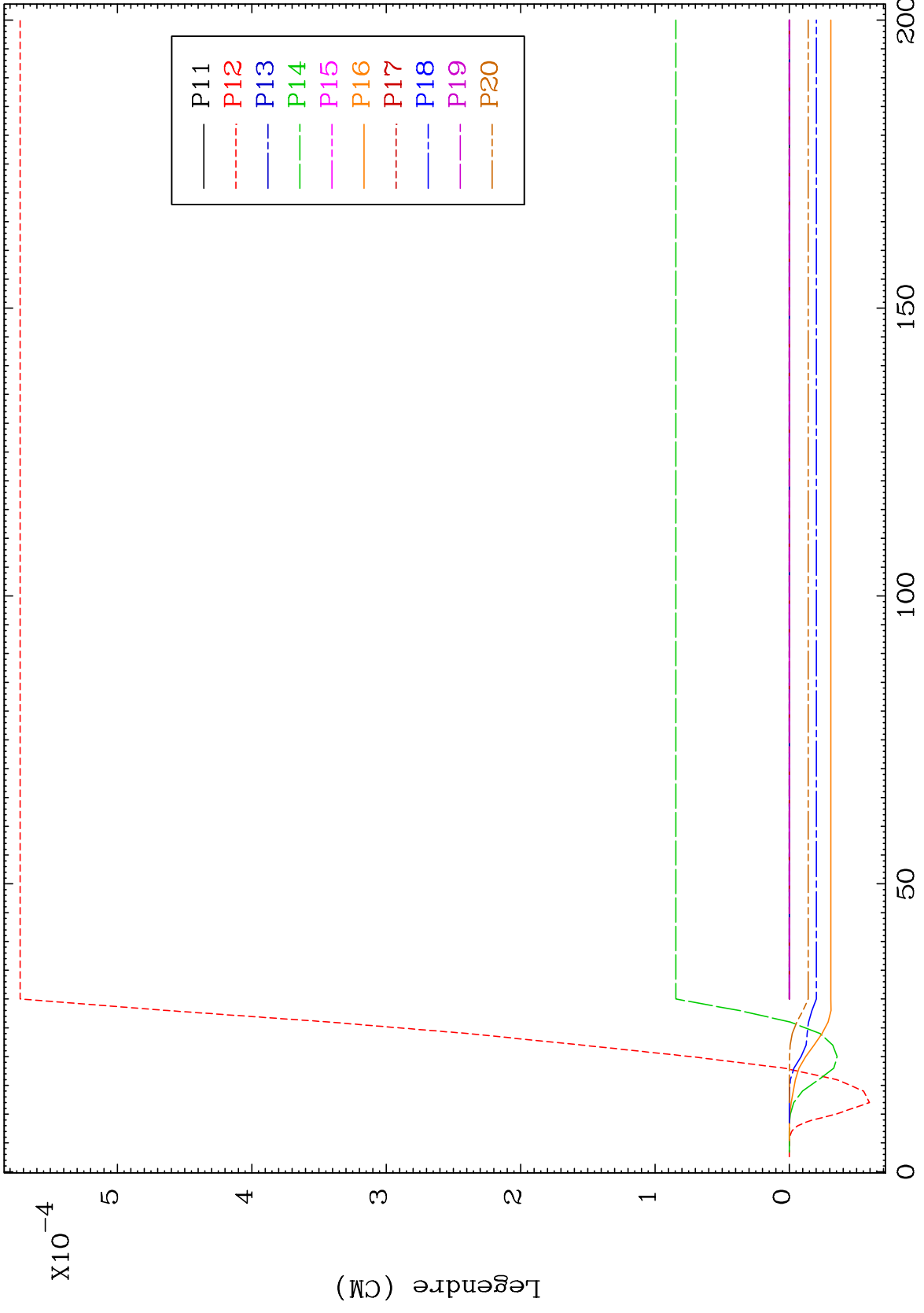
49

Incident Energy (MeV)

71-Lu-180

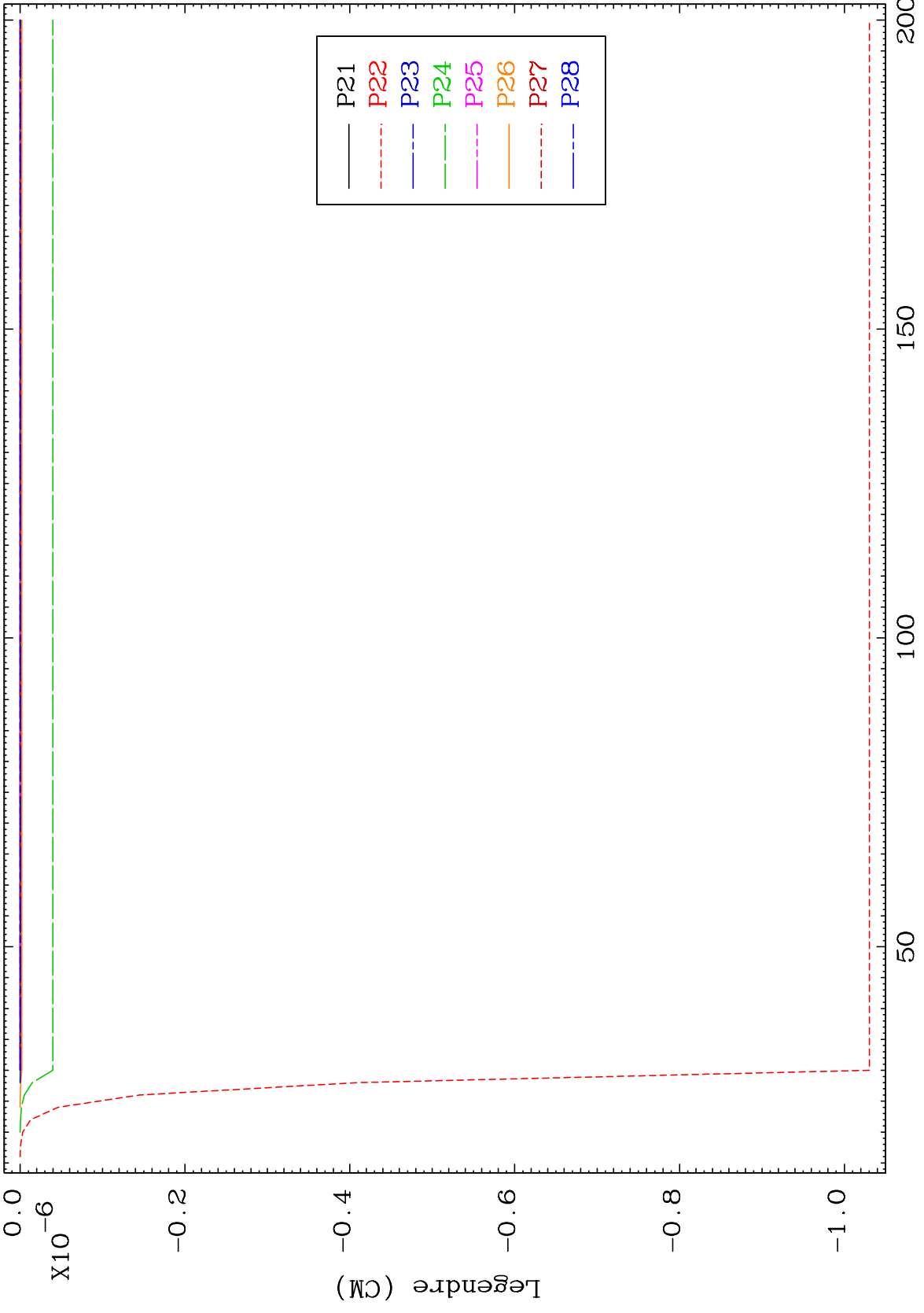


MAT 7140 MT= 59 (n,n') Level Legendre Coefficients 71-Lu-180



51 71-Lu-180

MAT 7140 MT= 59 (n,n') Level Legendre Coefficients 71-Lu-180

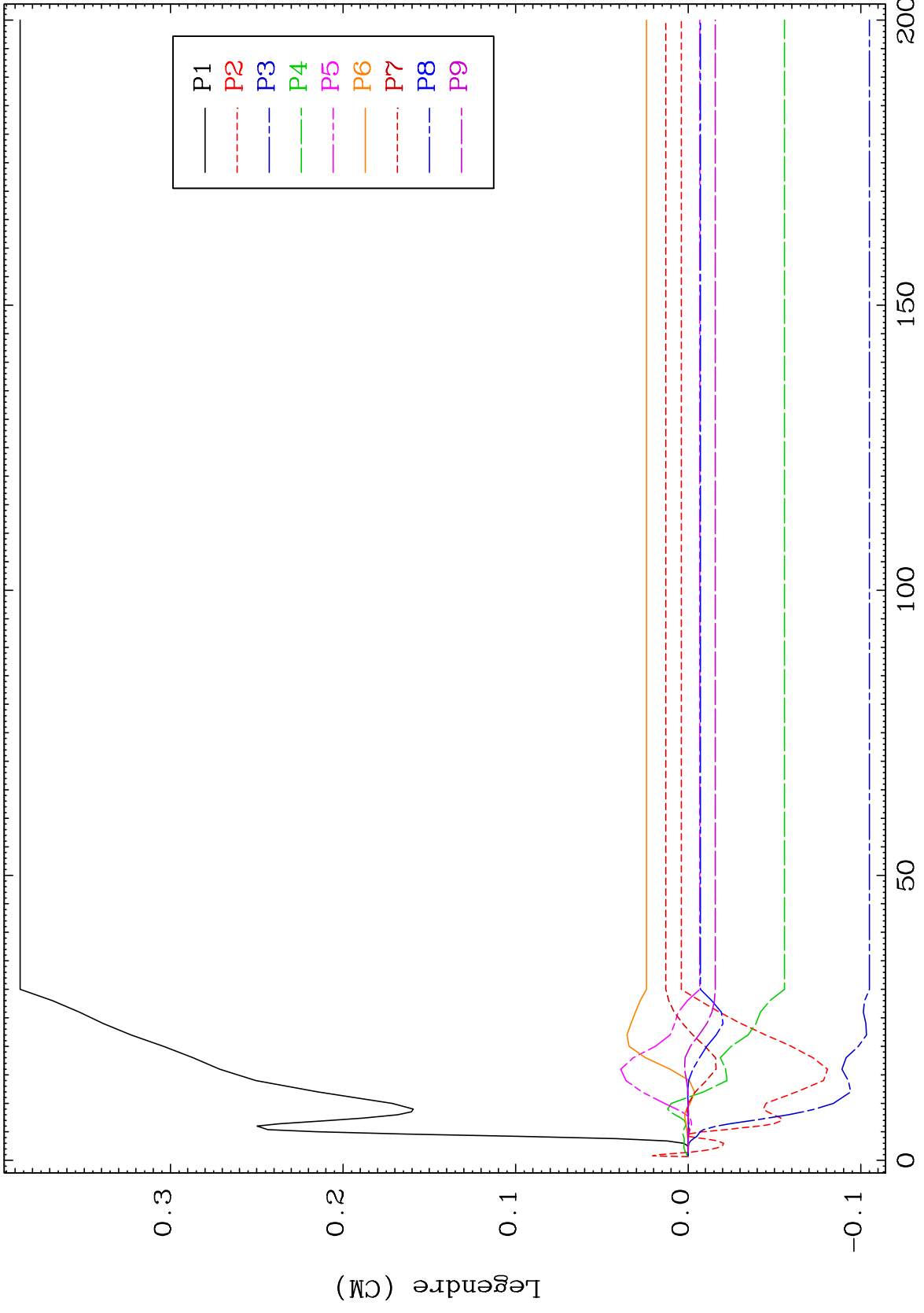


52 Incident Energy (MeV) 71-Lu-180

MAT 7140

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

71-Lu-180

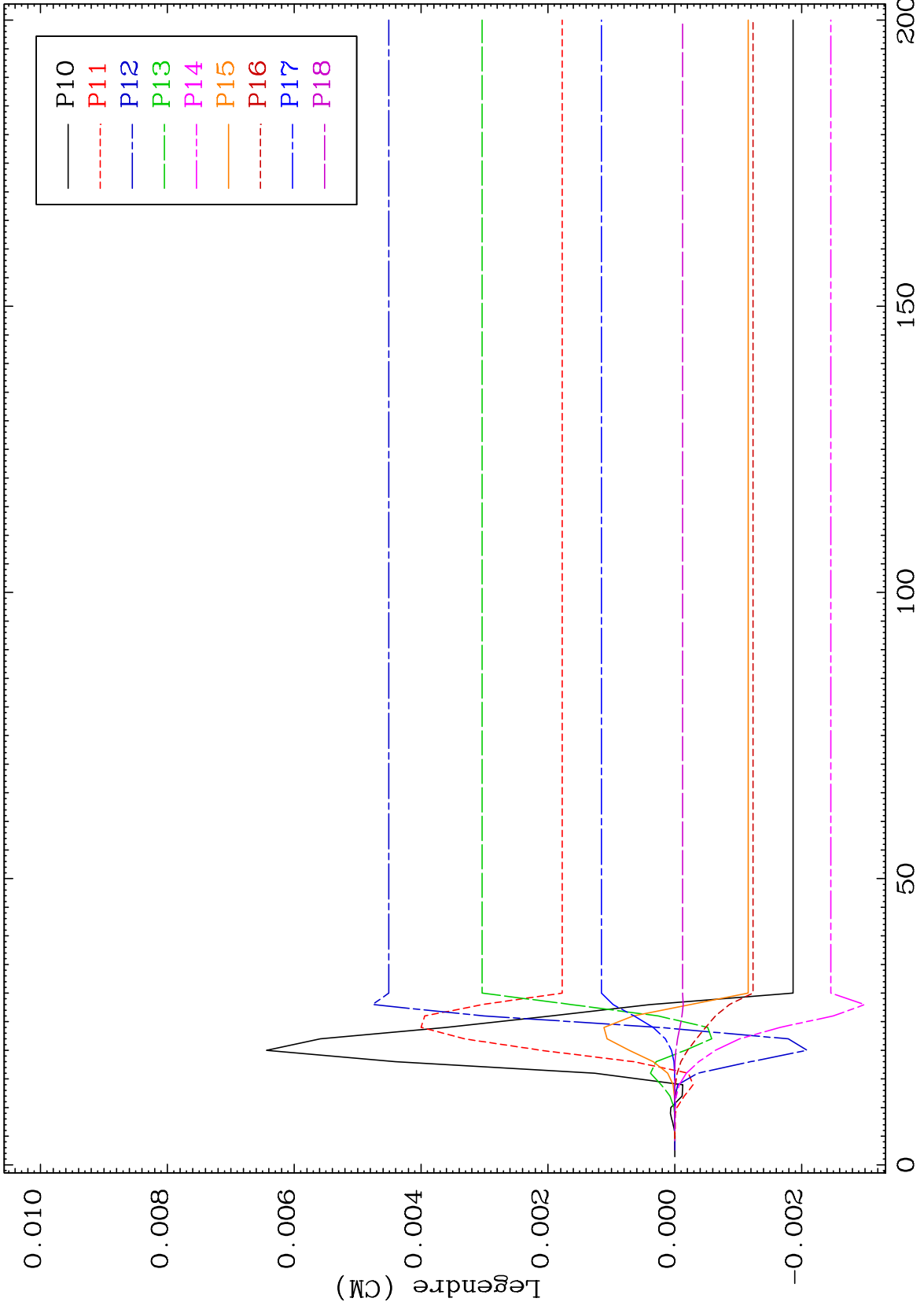


53

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 60 (n,n') Level Legendre Coefficients 71-Lu-180

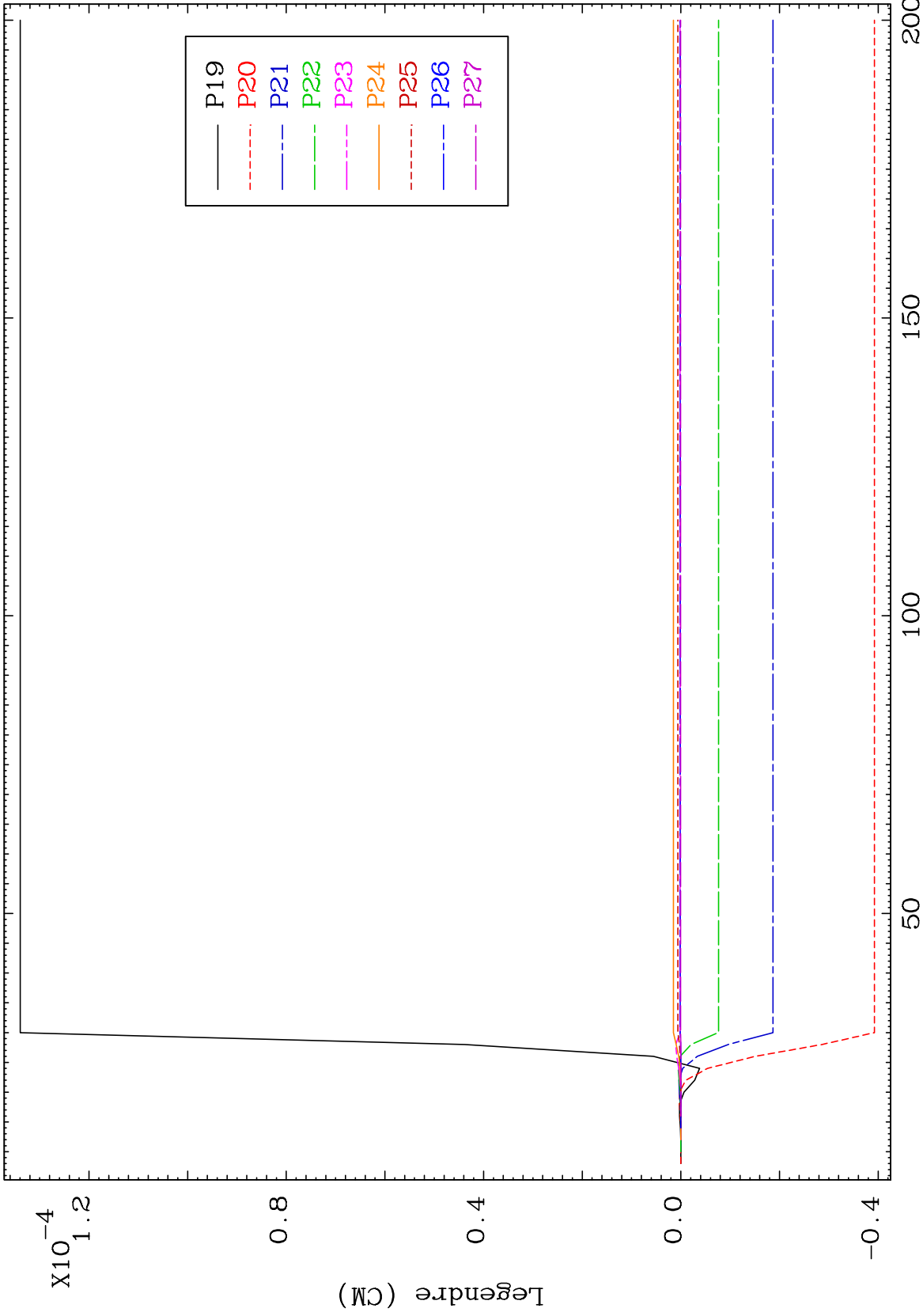


54 71-Lu-180

MAT 7140

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

71-Lu-180



55

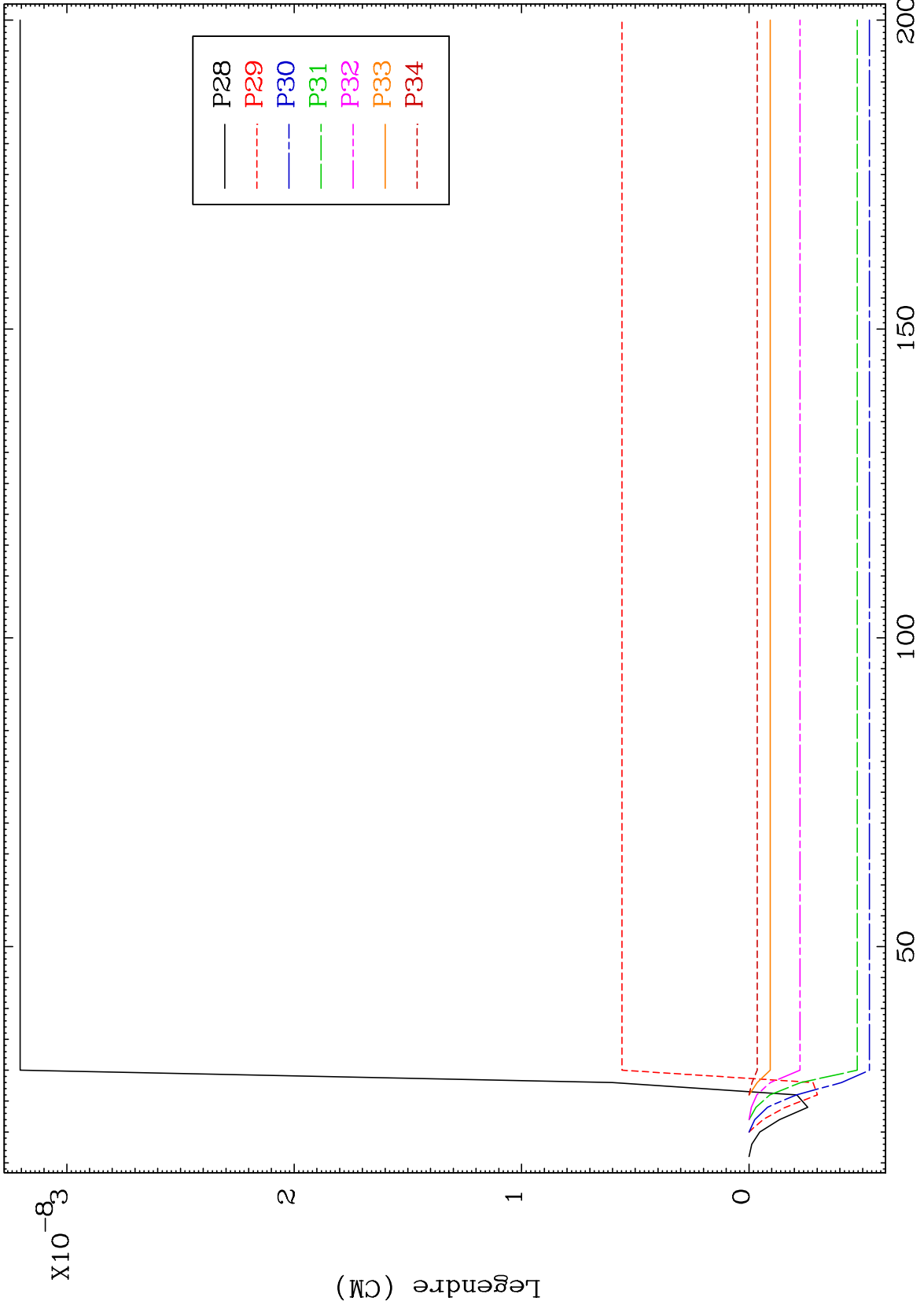
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180

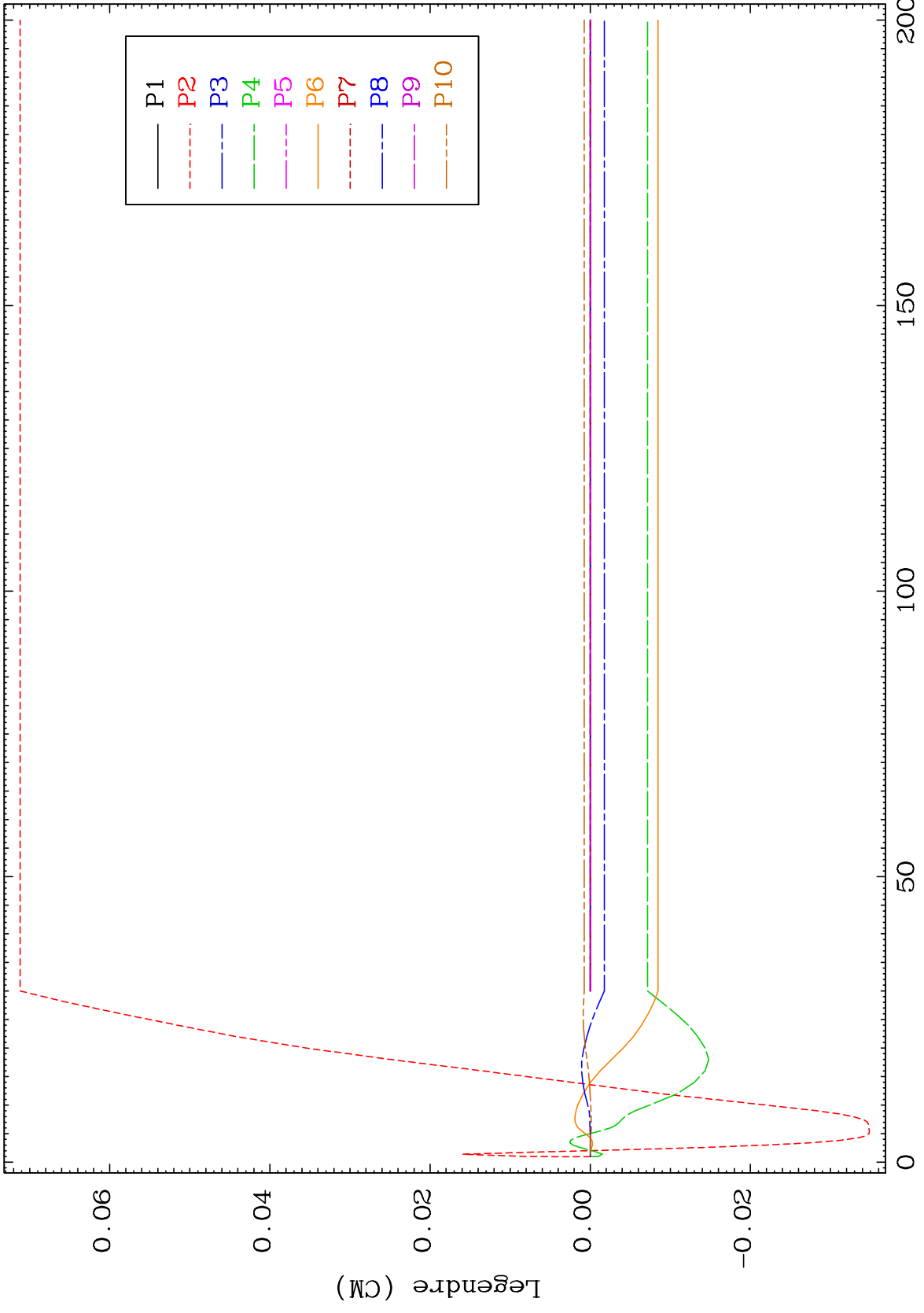


56

Incident Energy (MeV)

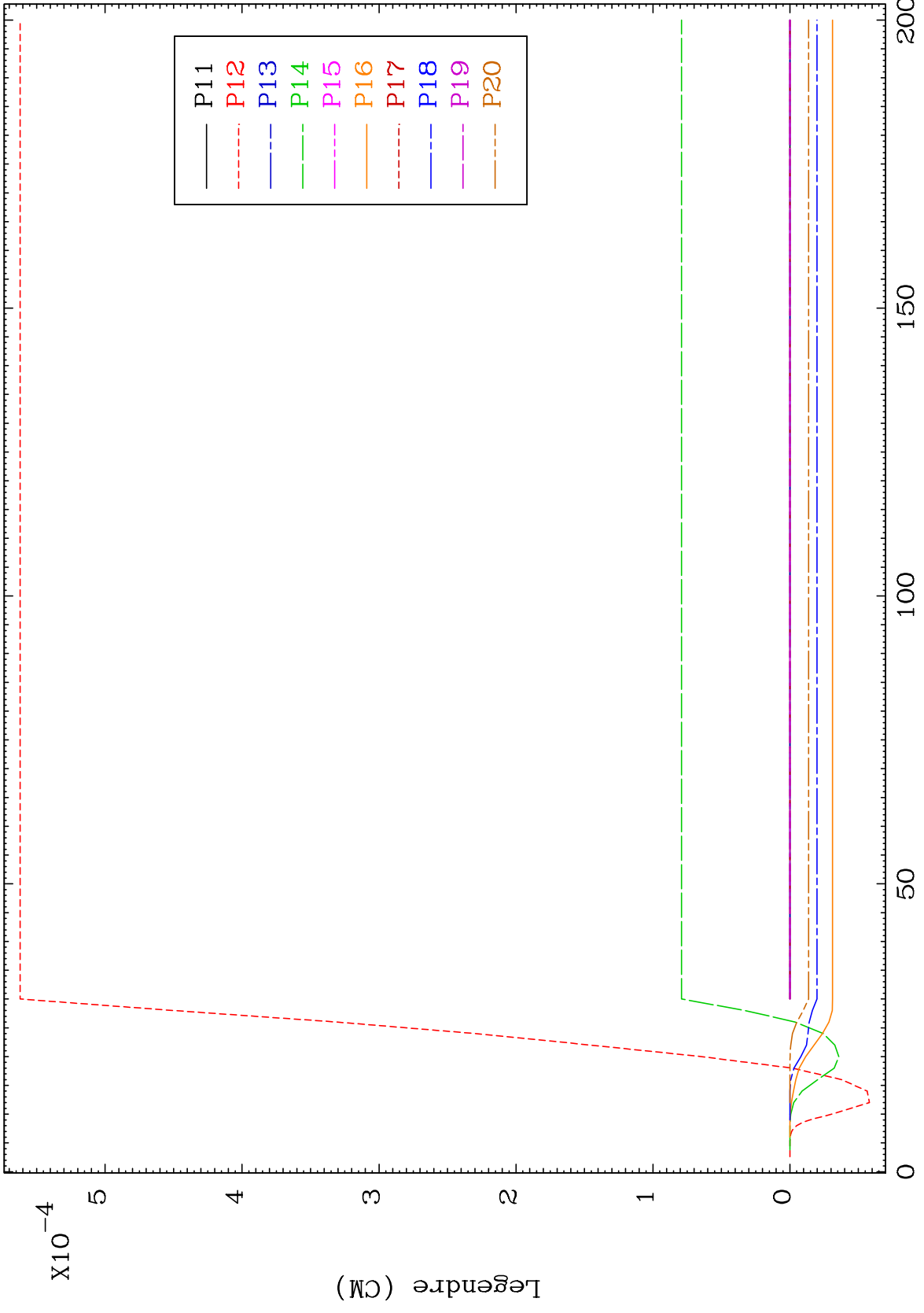
71-Lu-180

MAT 7140 MT= 61 (n,n') Level Legendre Coefficients 71-Lu-180



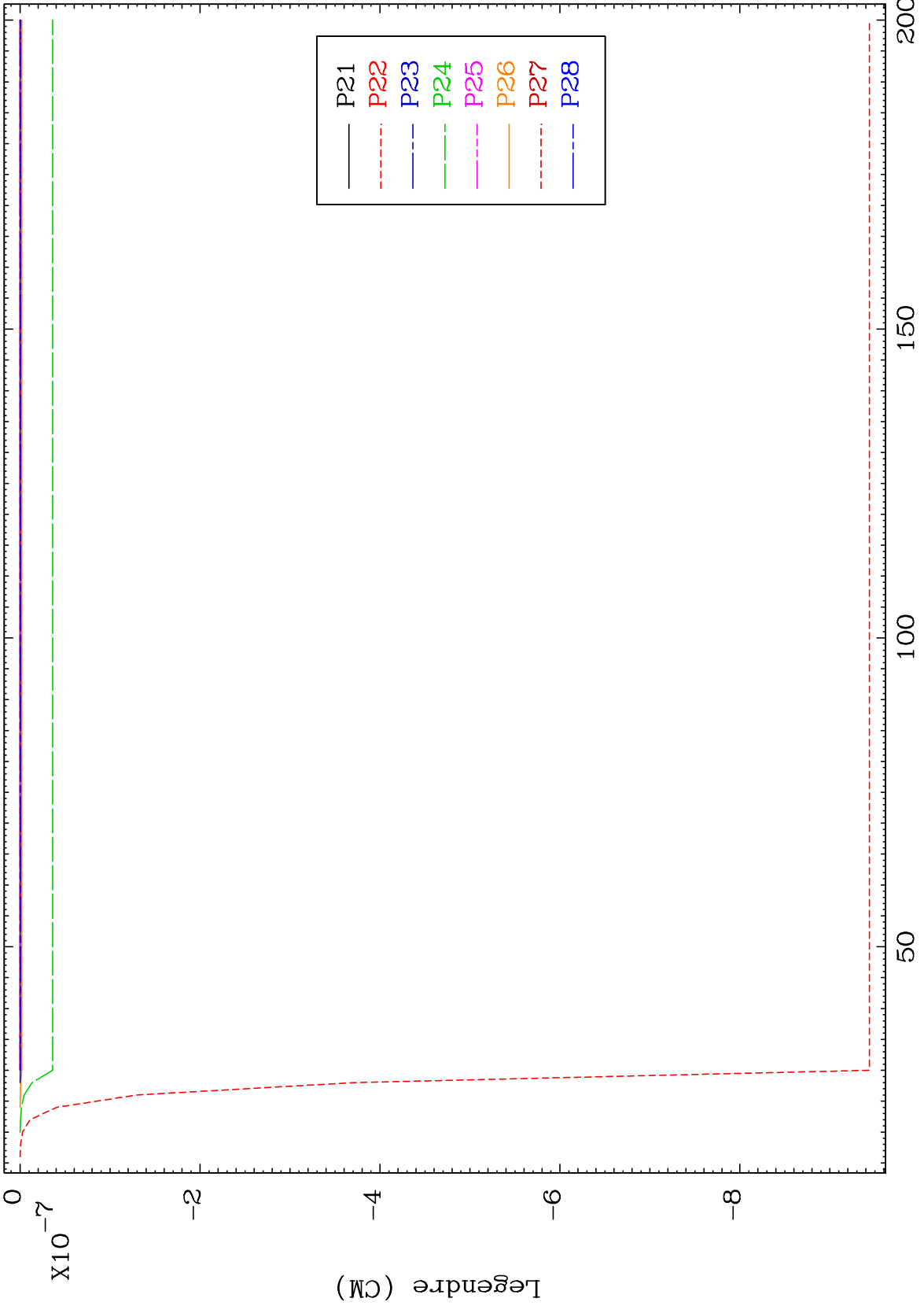
57 71-Lu-180

MAT 7140 MT= 61 (n,n') Level Legendre Coefficients 71-Lu-180



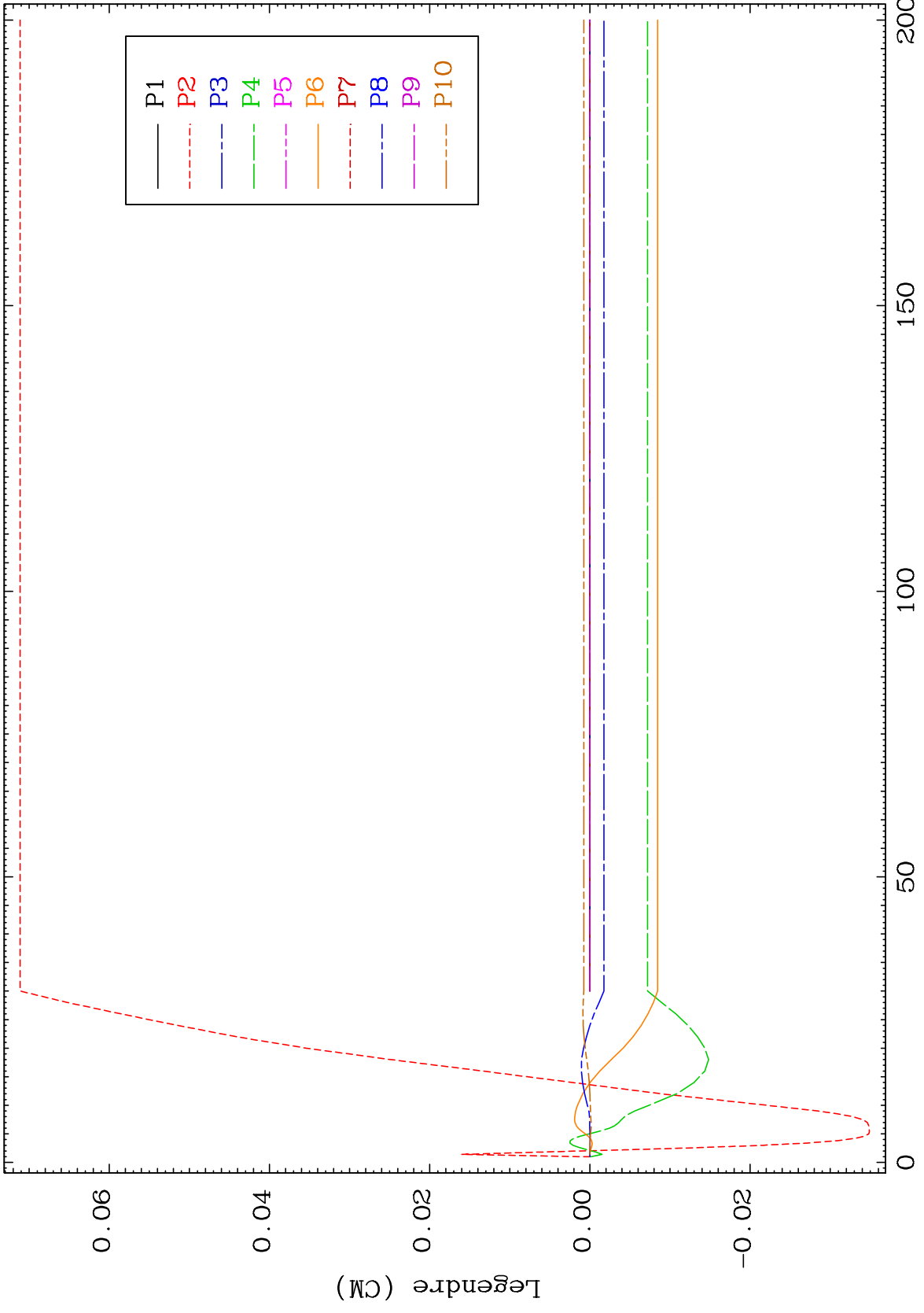
58 71-Lu-180

MAT 7140 MT= 61 (n,n') Level Legendre Coefficients 71-Lu-180



59 71-Lu-180

MAT 7140 MT= 62 (n,n') Level Legendre Coefficients 71-Lu-180

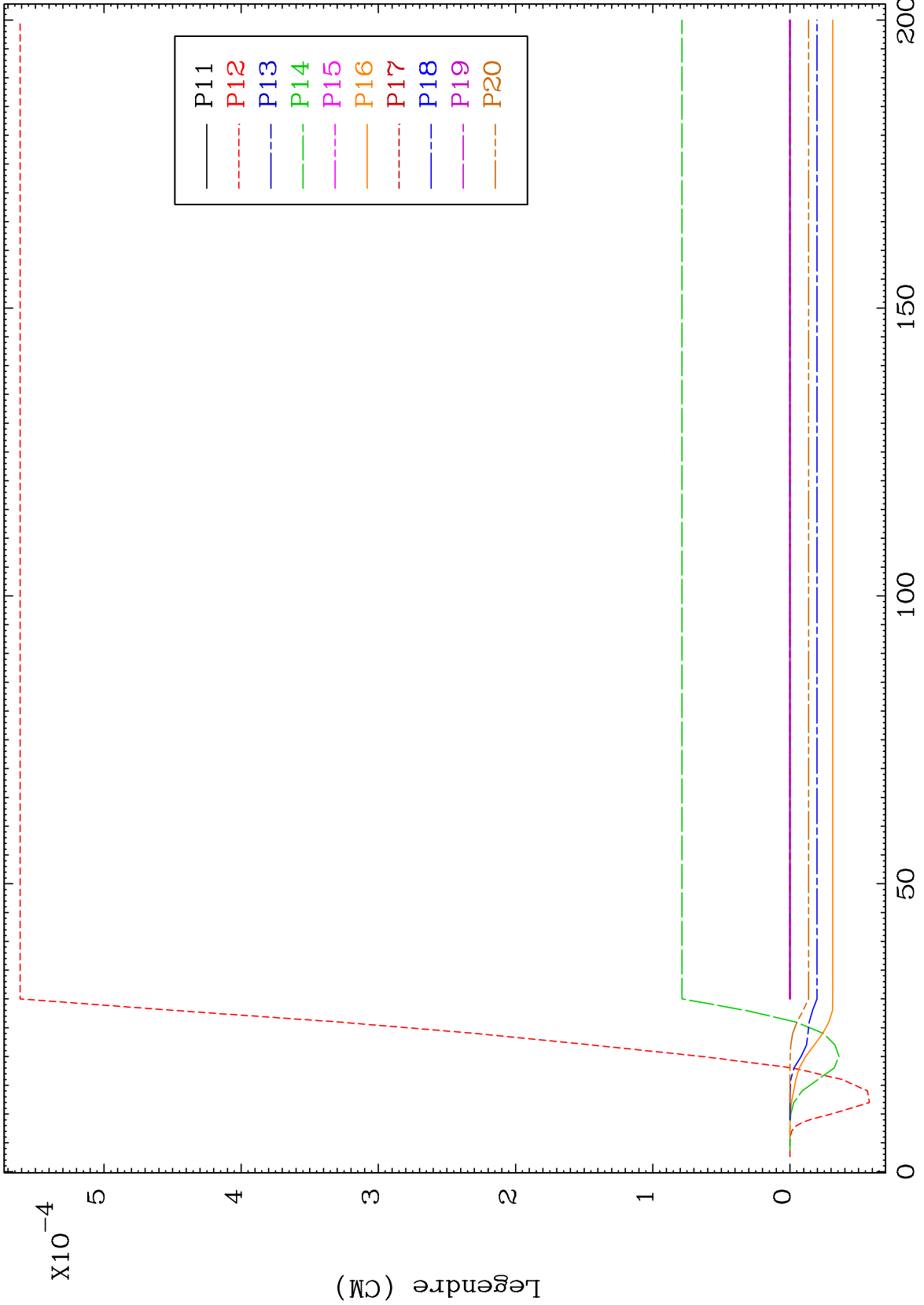


71-Lu-180

MAT 7140

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

71-Lu-180

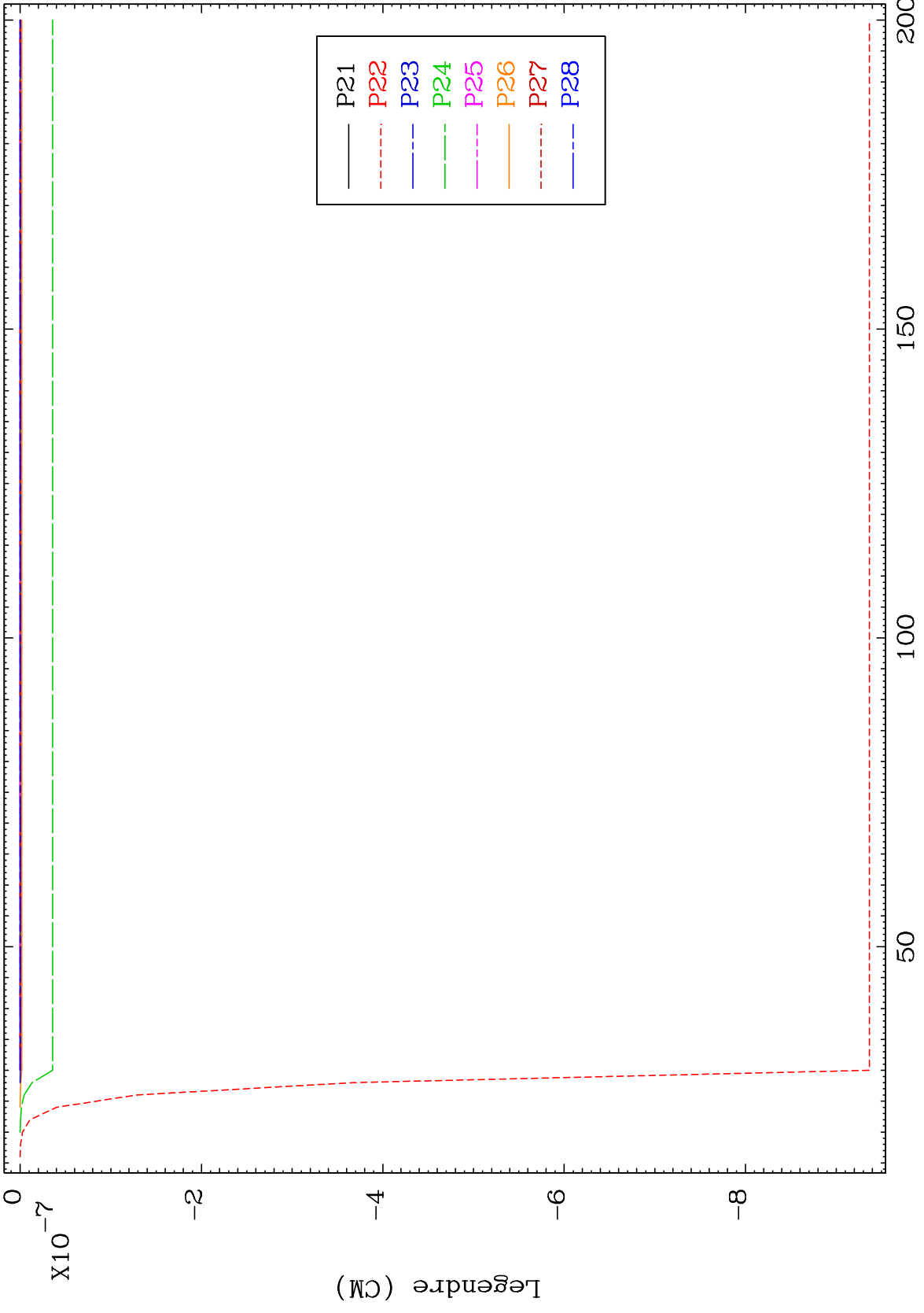


61

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 62 (n,n') Level Legendre Coefficients 71-Lu-180

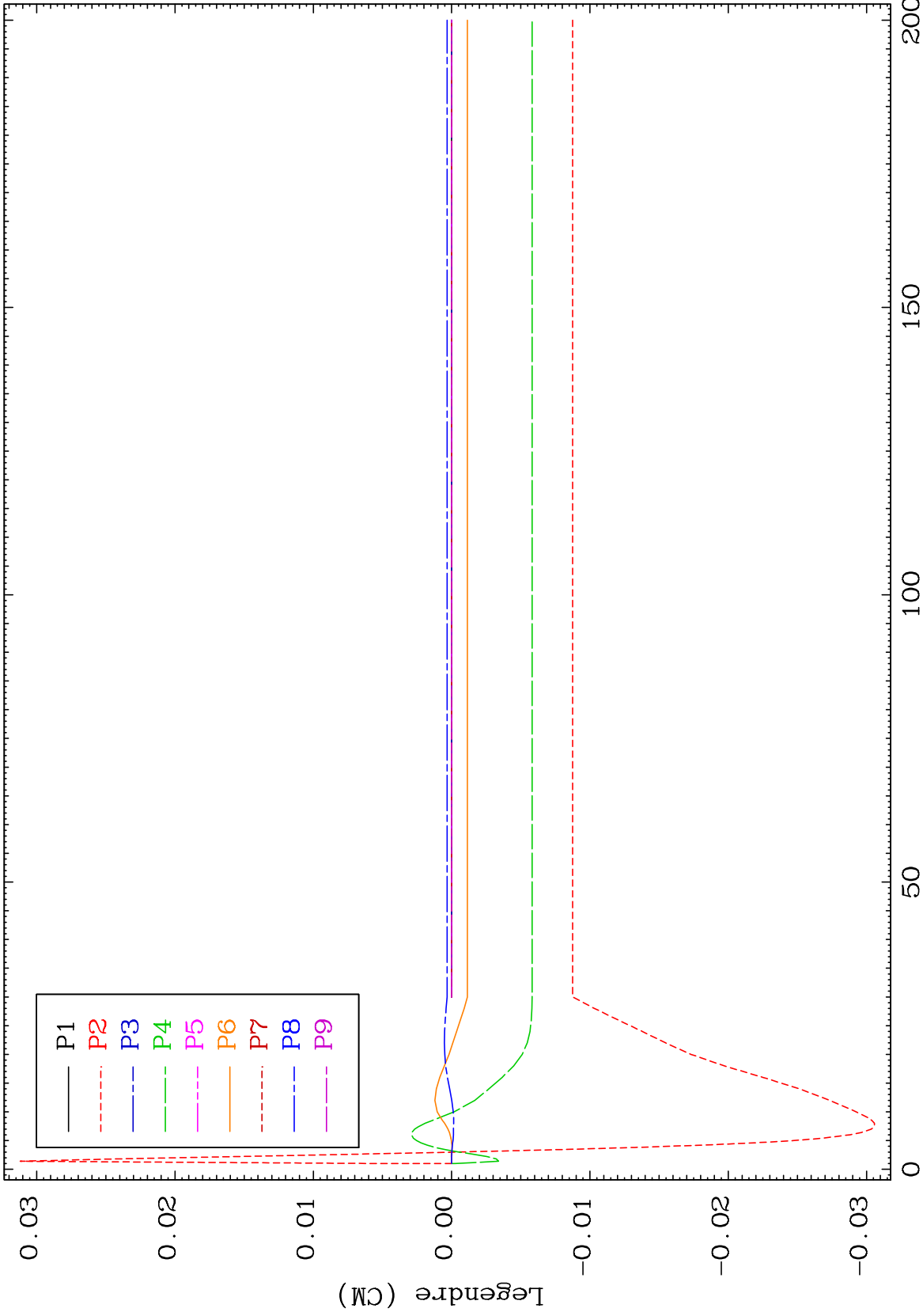


62 71-Lu-180

MAT 7140

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

71-Lu-180



63

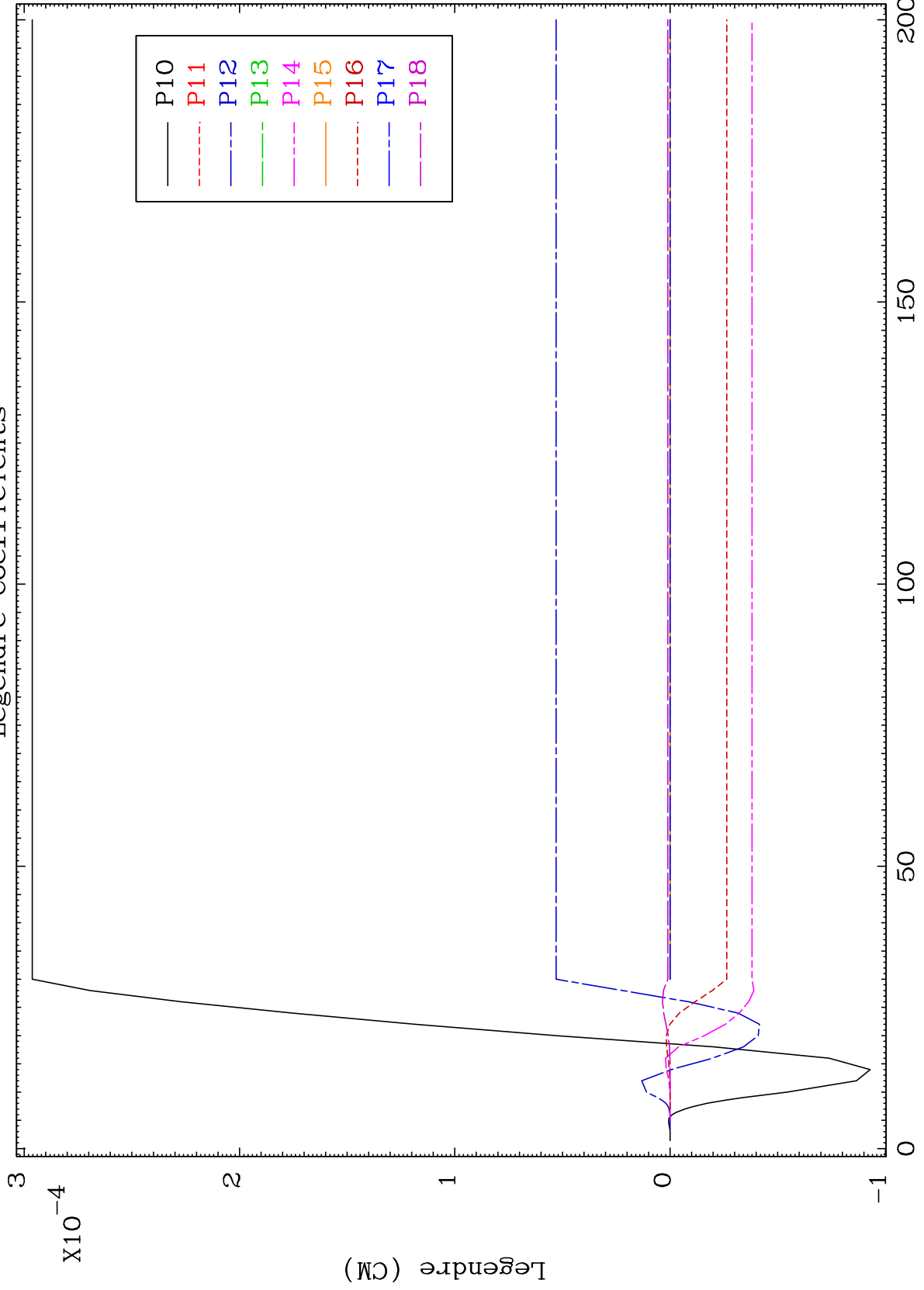
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180

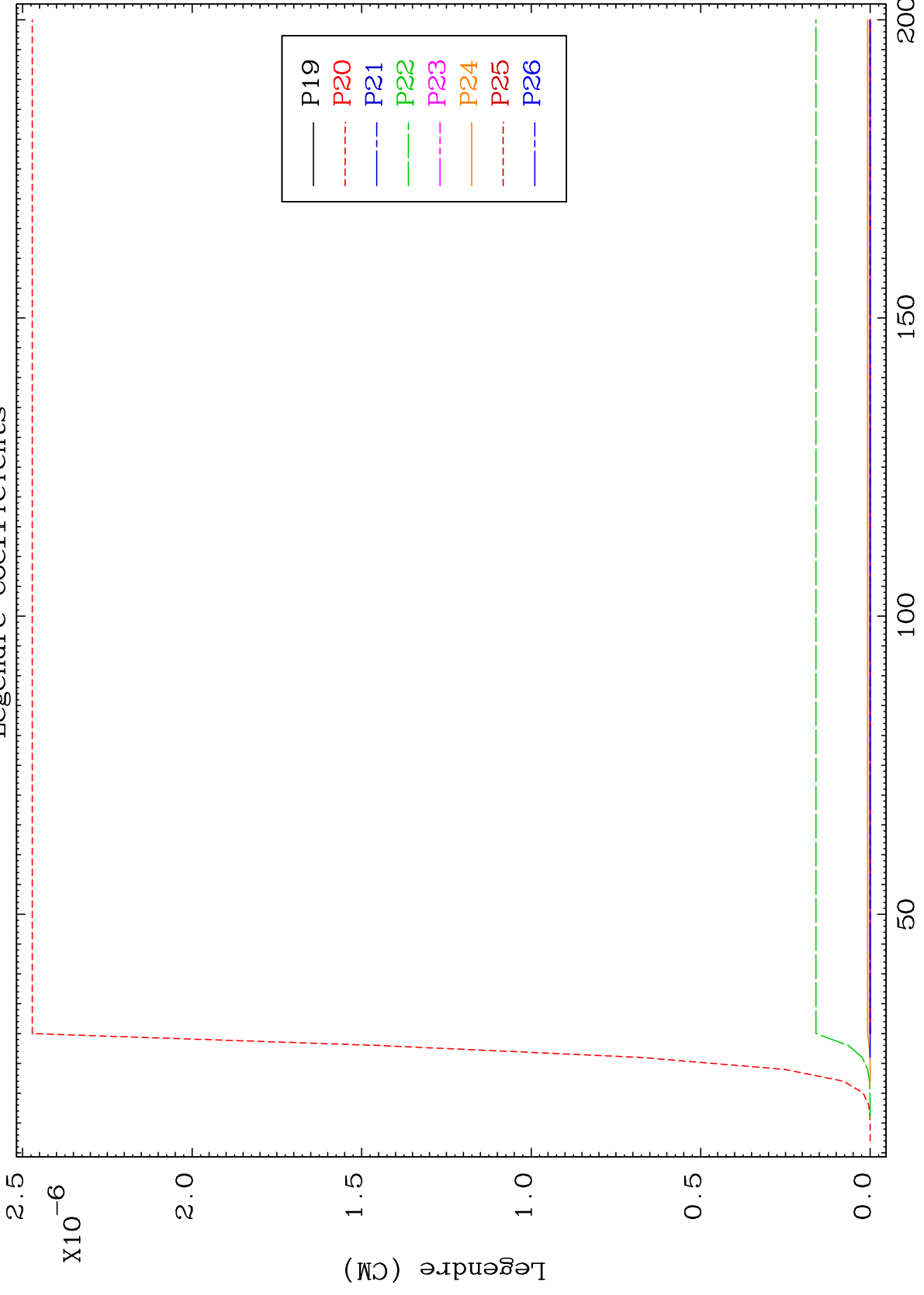


64

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 63 (n,n') Level Legendre Coefficients 71-Lu-180

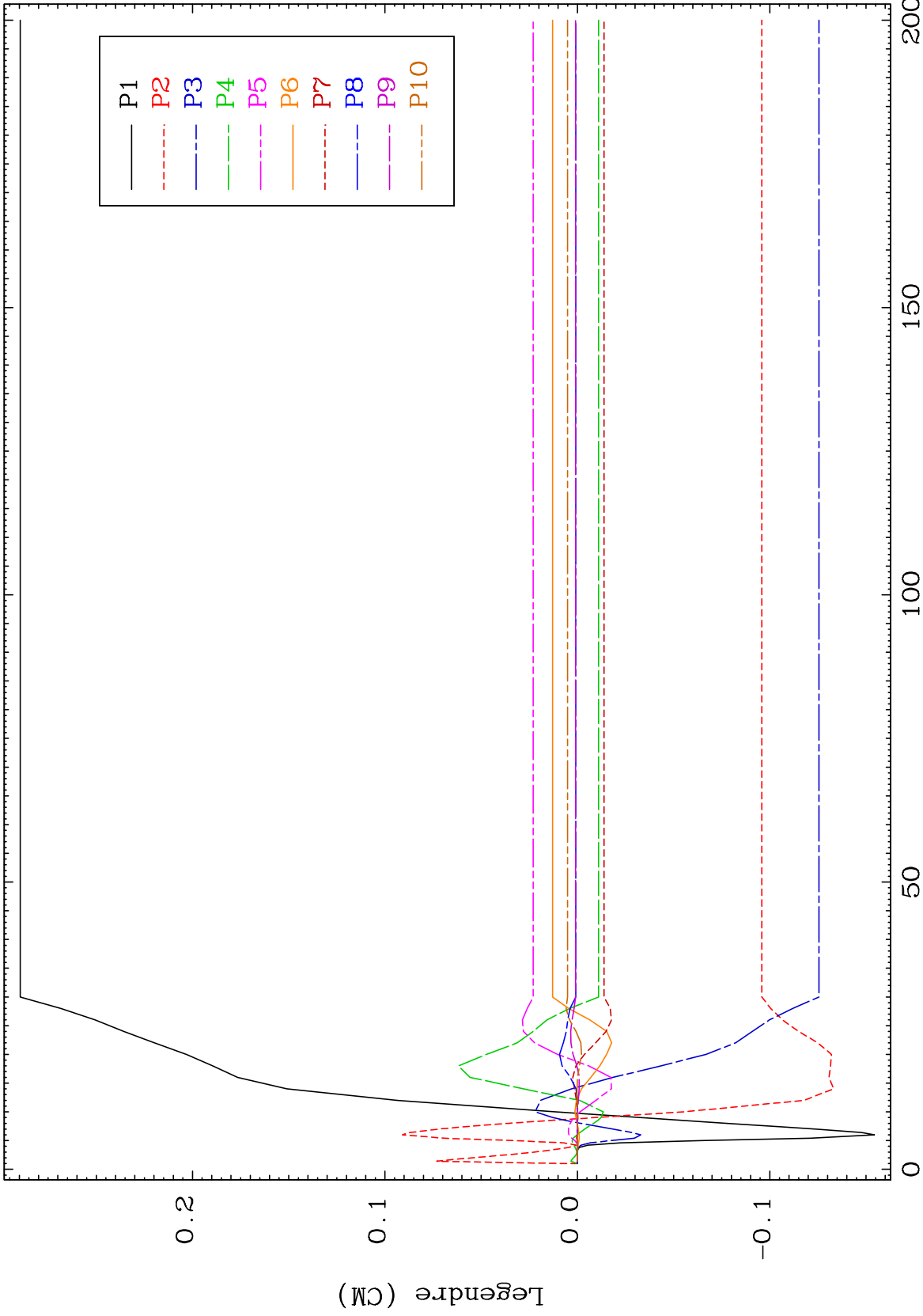


65 Incident Energy (MeV) 71-Lu-180

MAT 7140

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

71-Lu-180



66

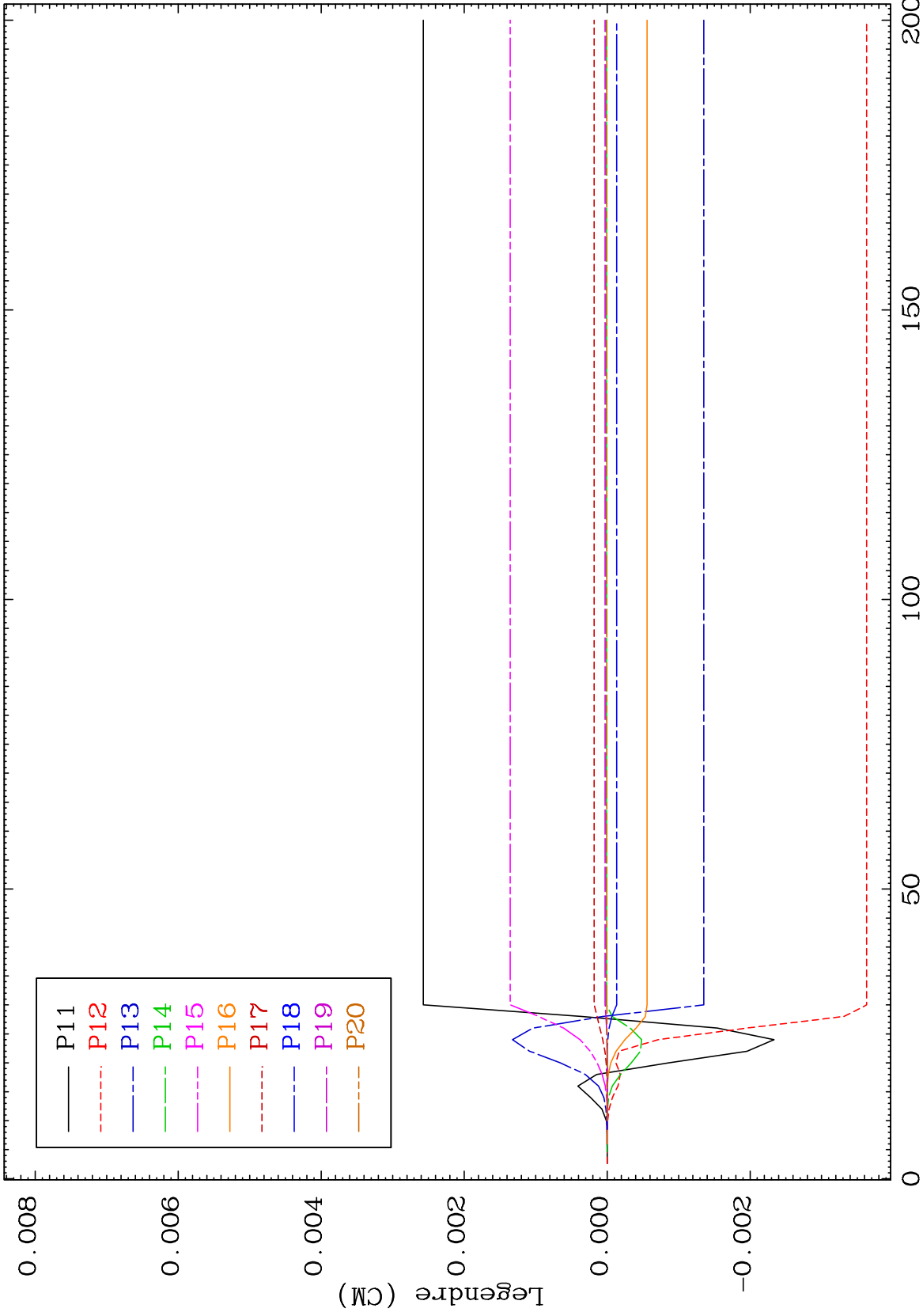
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



67

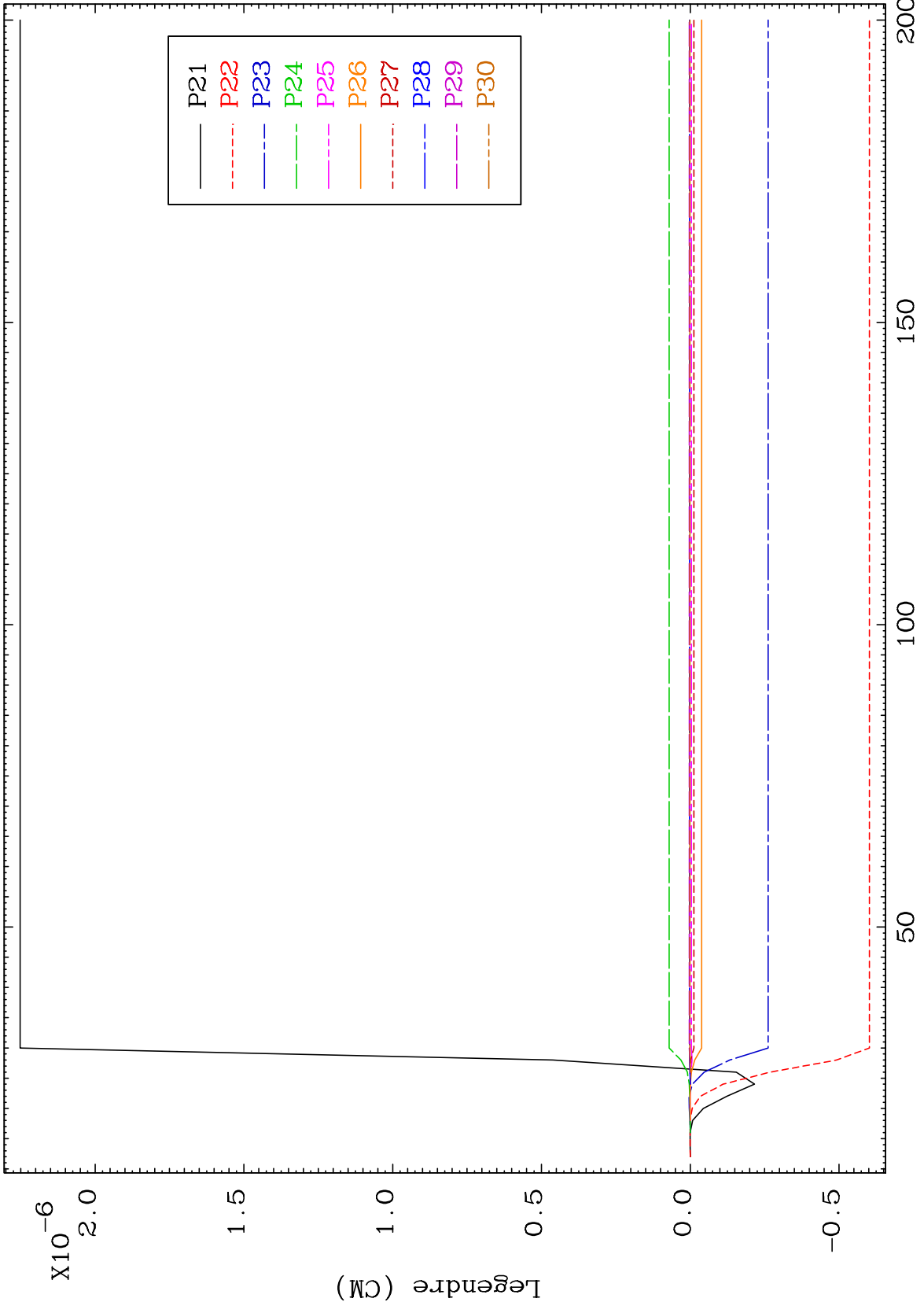
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180

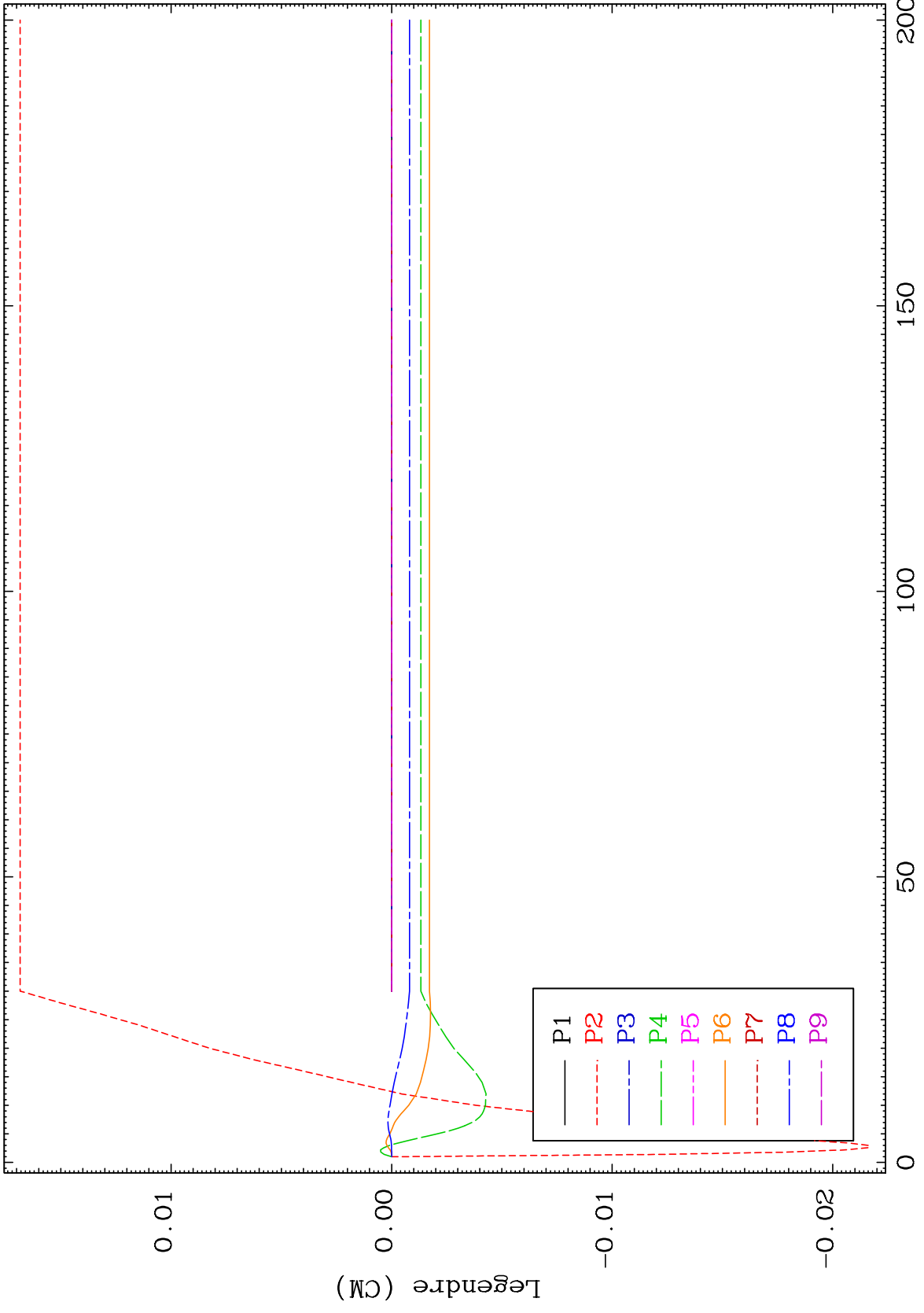


68

Incident Energy (MeV)

71-Lu-180

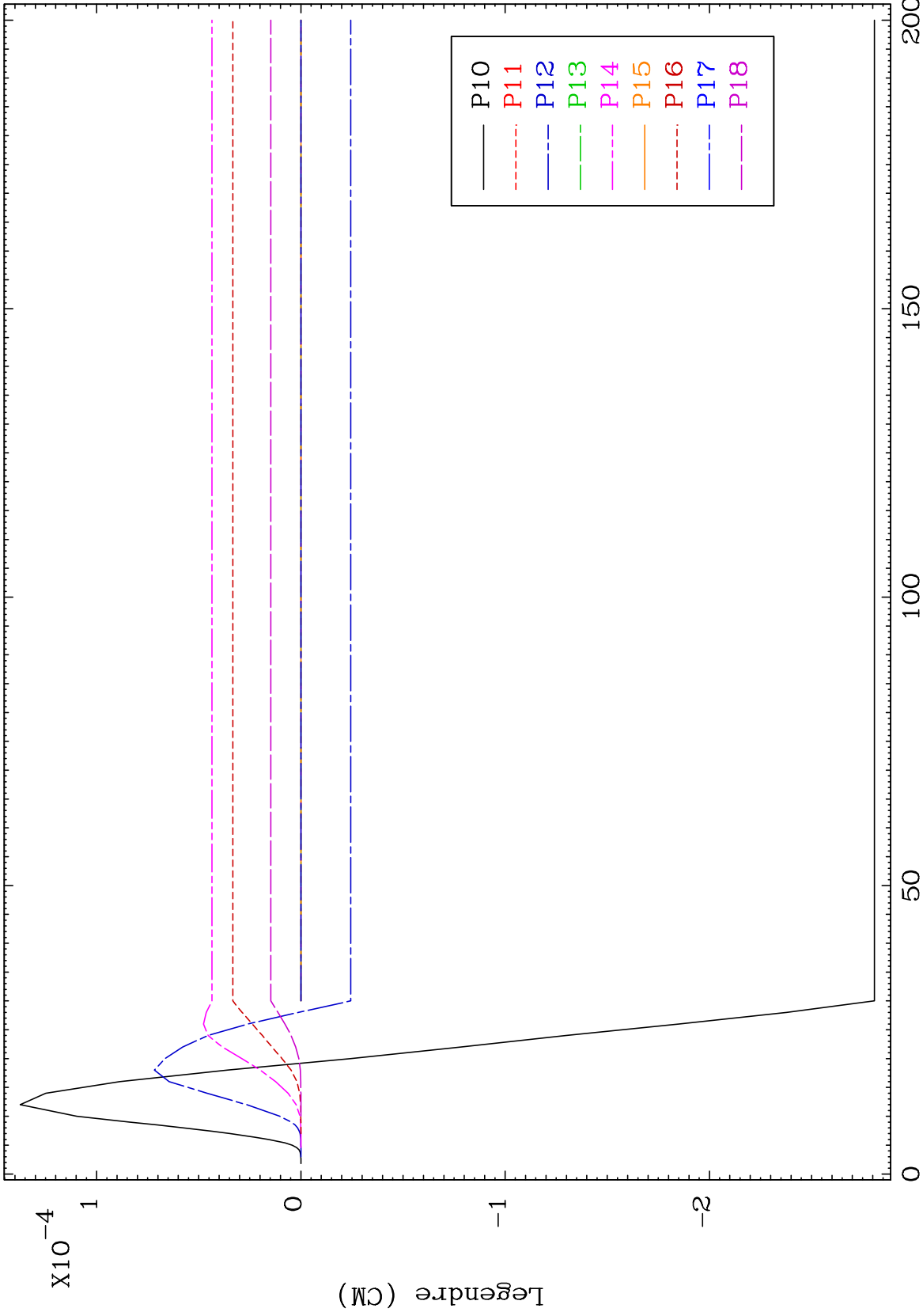
MAT 7140 MT= 65 (n,n') Level Legendre Coefficients 71-Lu-180



MAT 7140

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

71-Lu-180



0

50

100

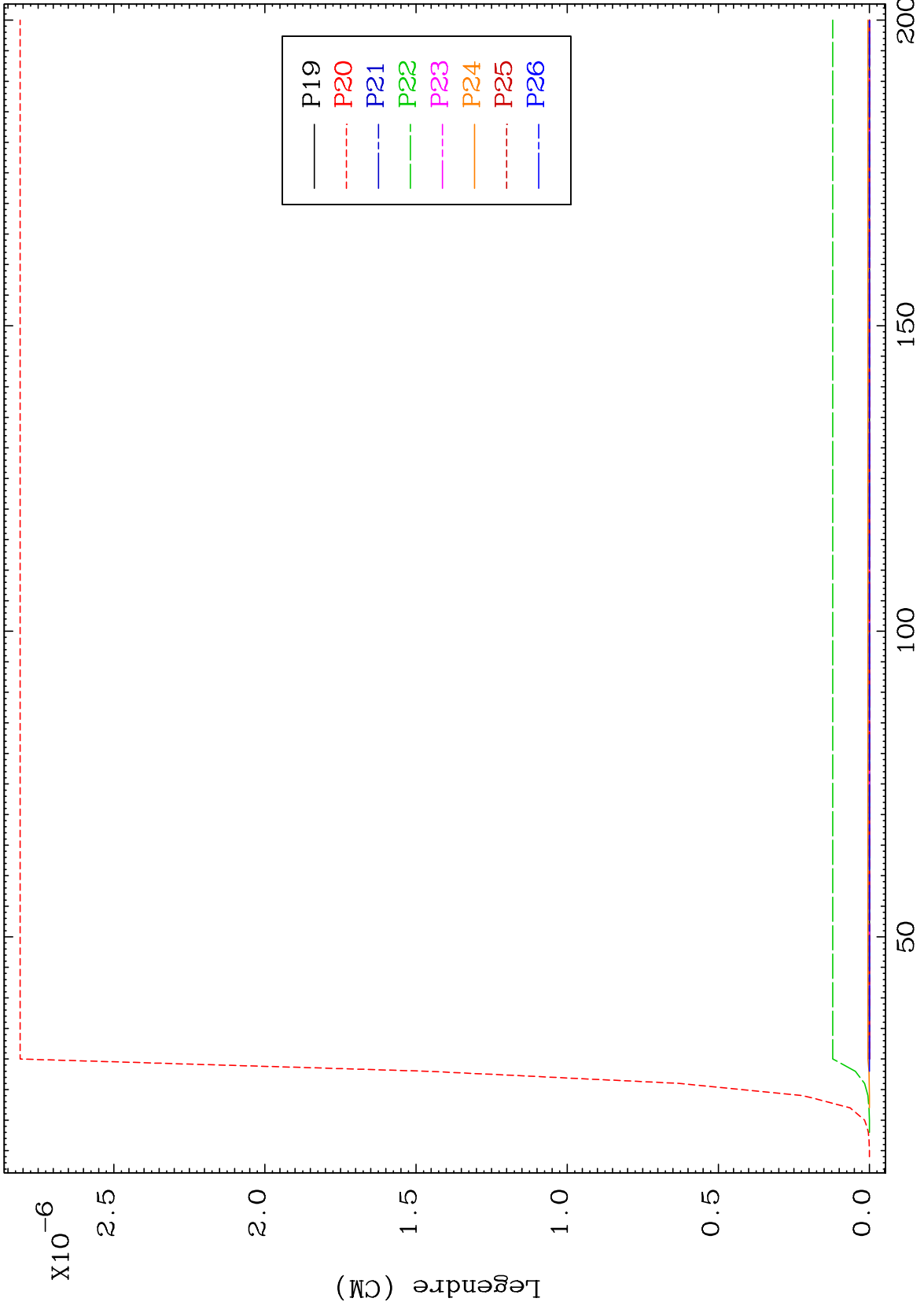
150

200

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 65 (n,n') Level Legendre Coefficients 71-Lu-180

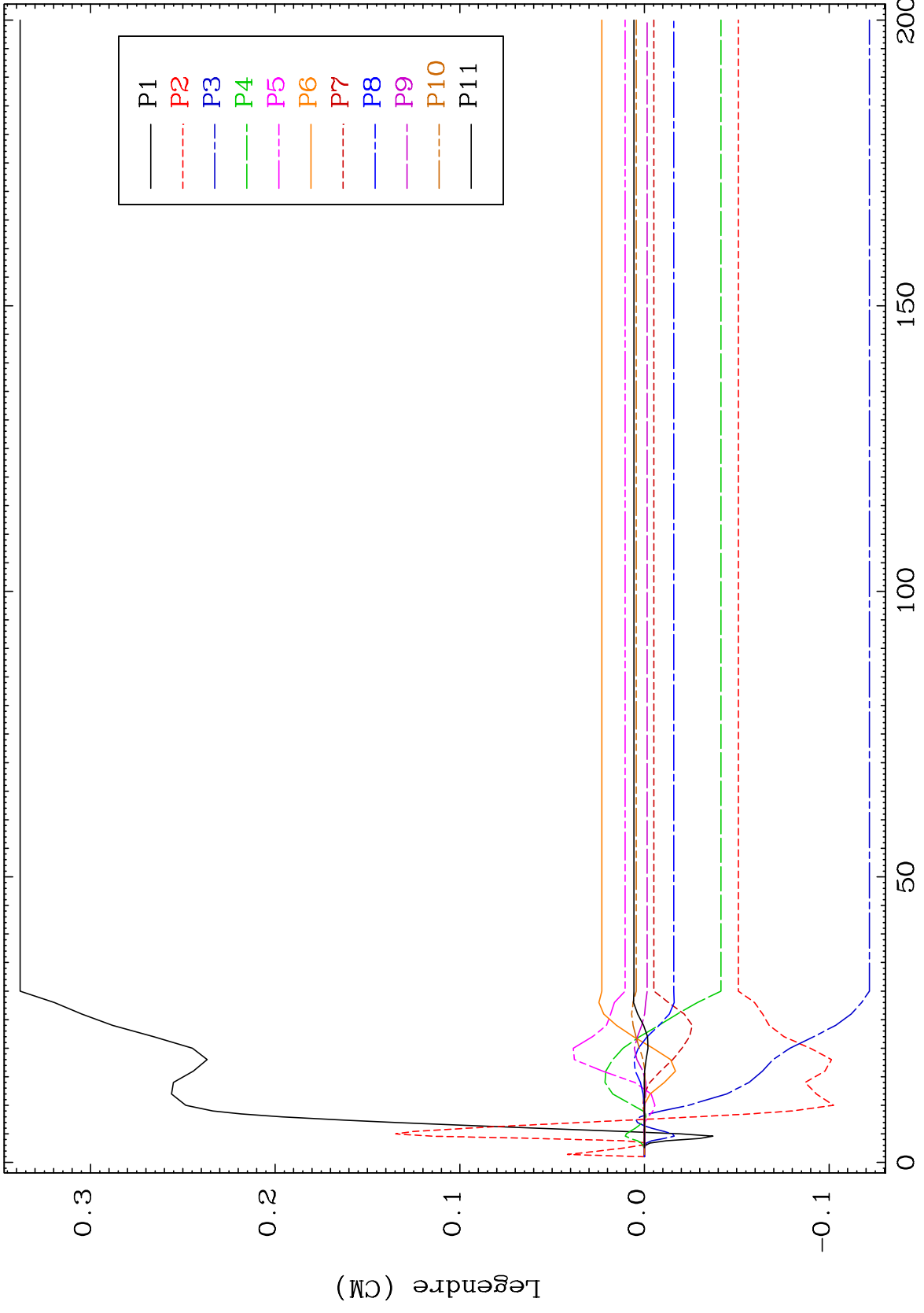


71 71-Lu-180

MAT 7140

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

71-Lu-180



72

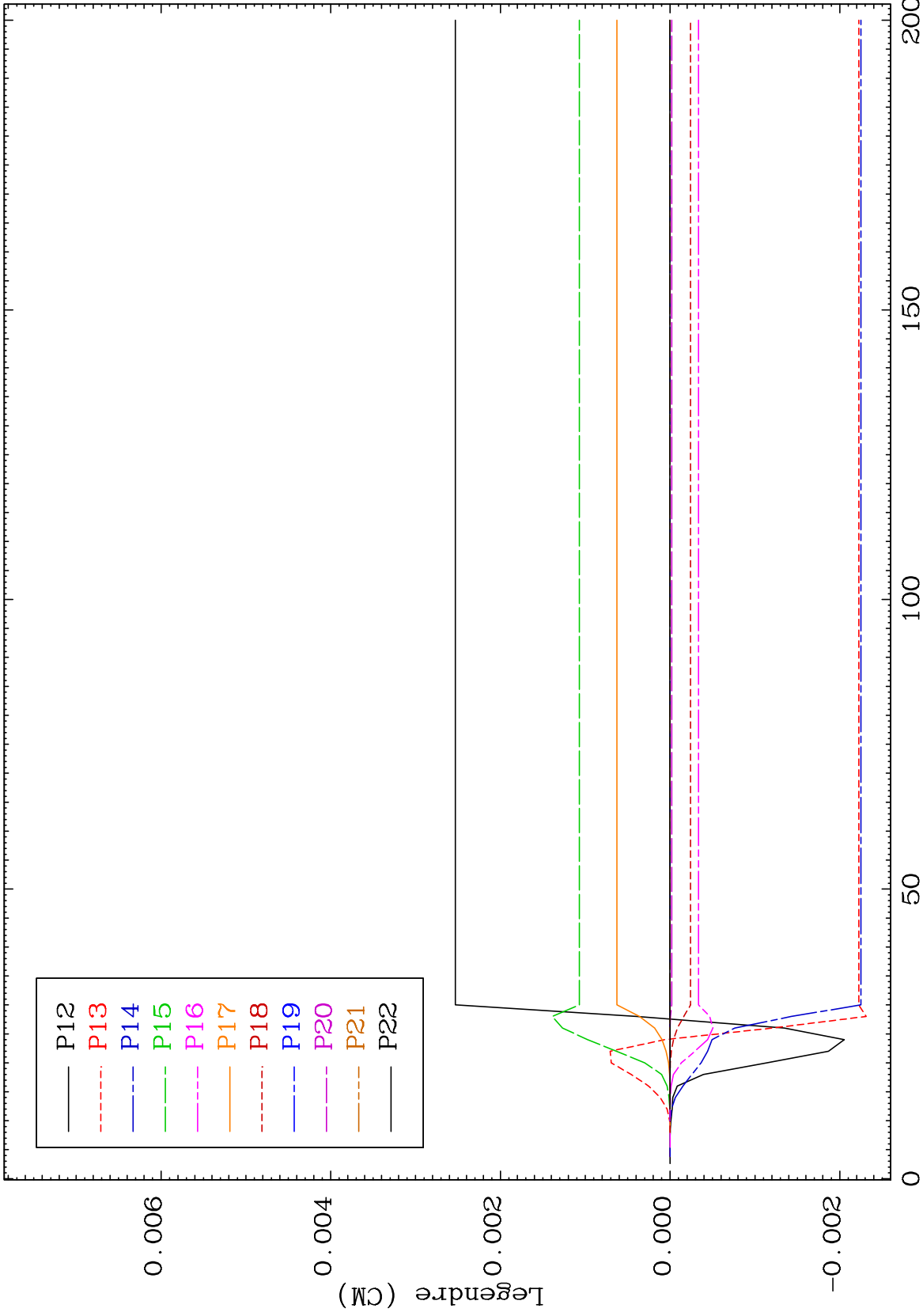
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



73

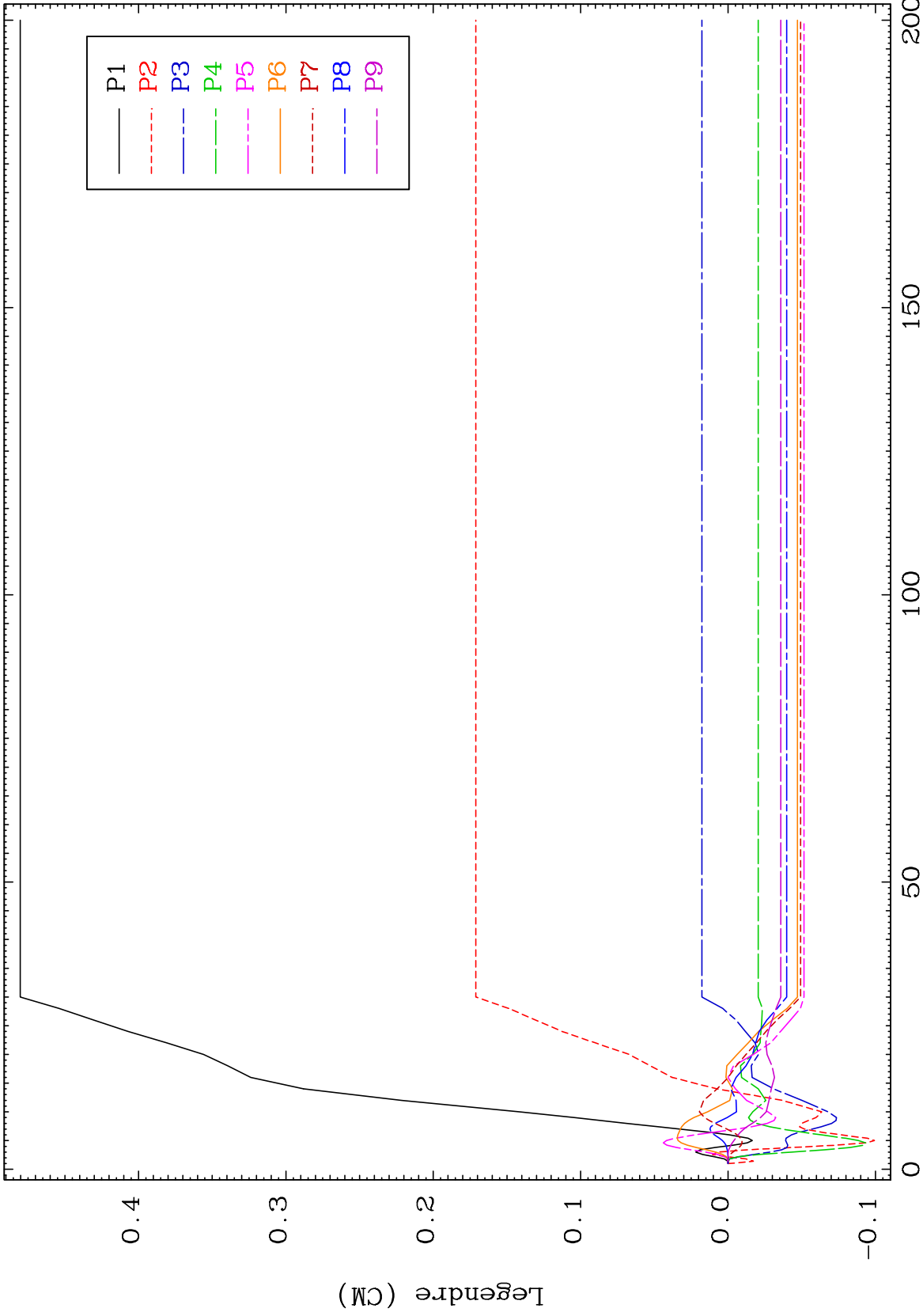
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180

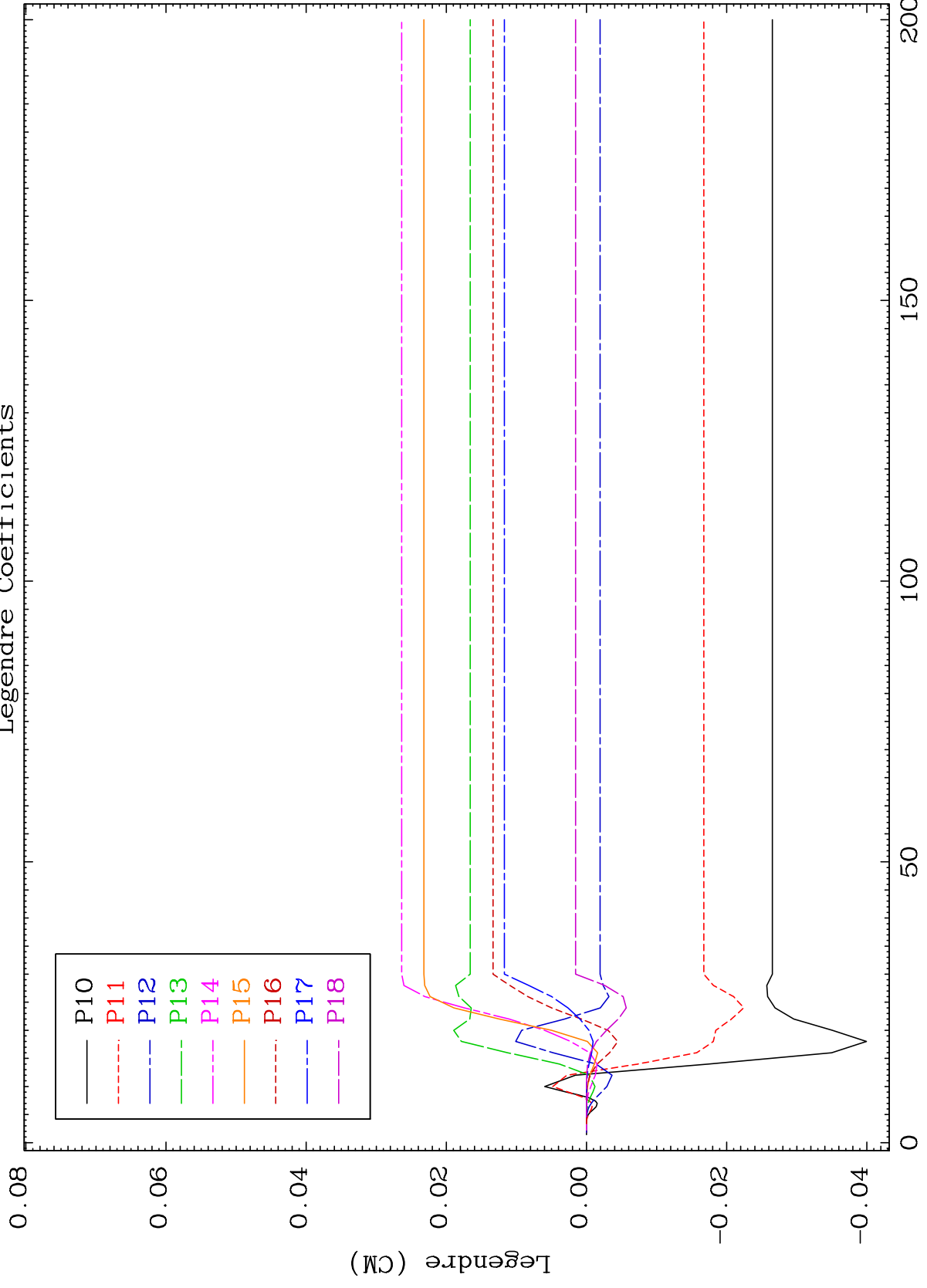


75

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 67 (n,n') Level Legendre Coefficients 71-Lu-180



71-Lu-180

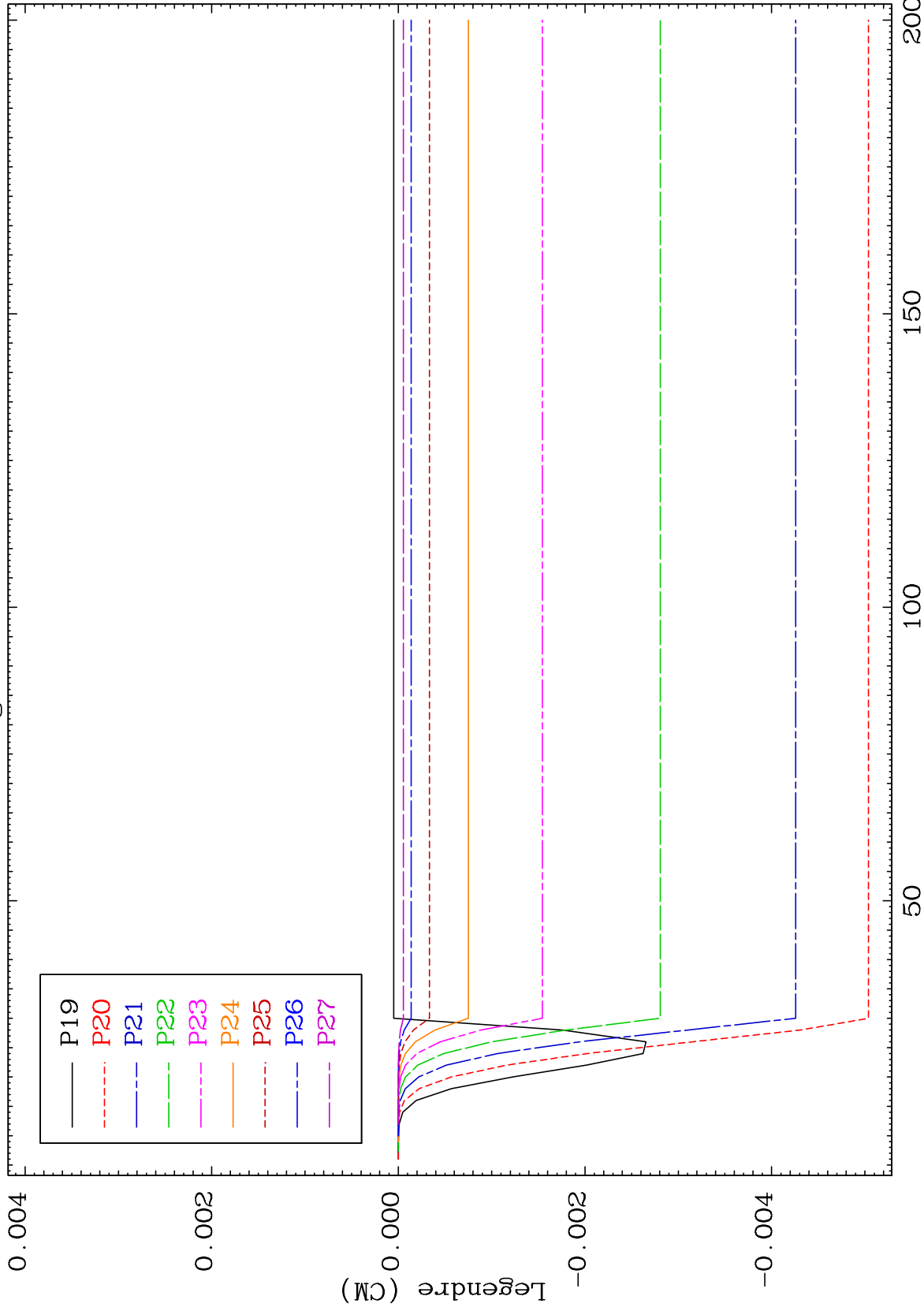
Incident Energy (MeV)

76

MAT 7140

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

71-Lu-180



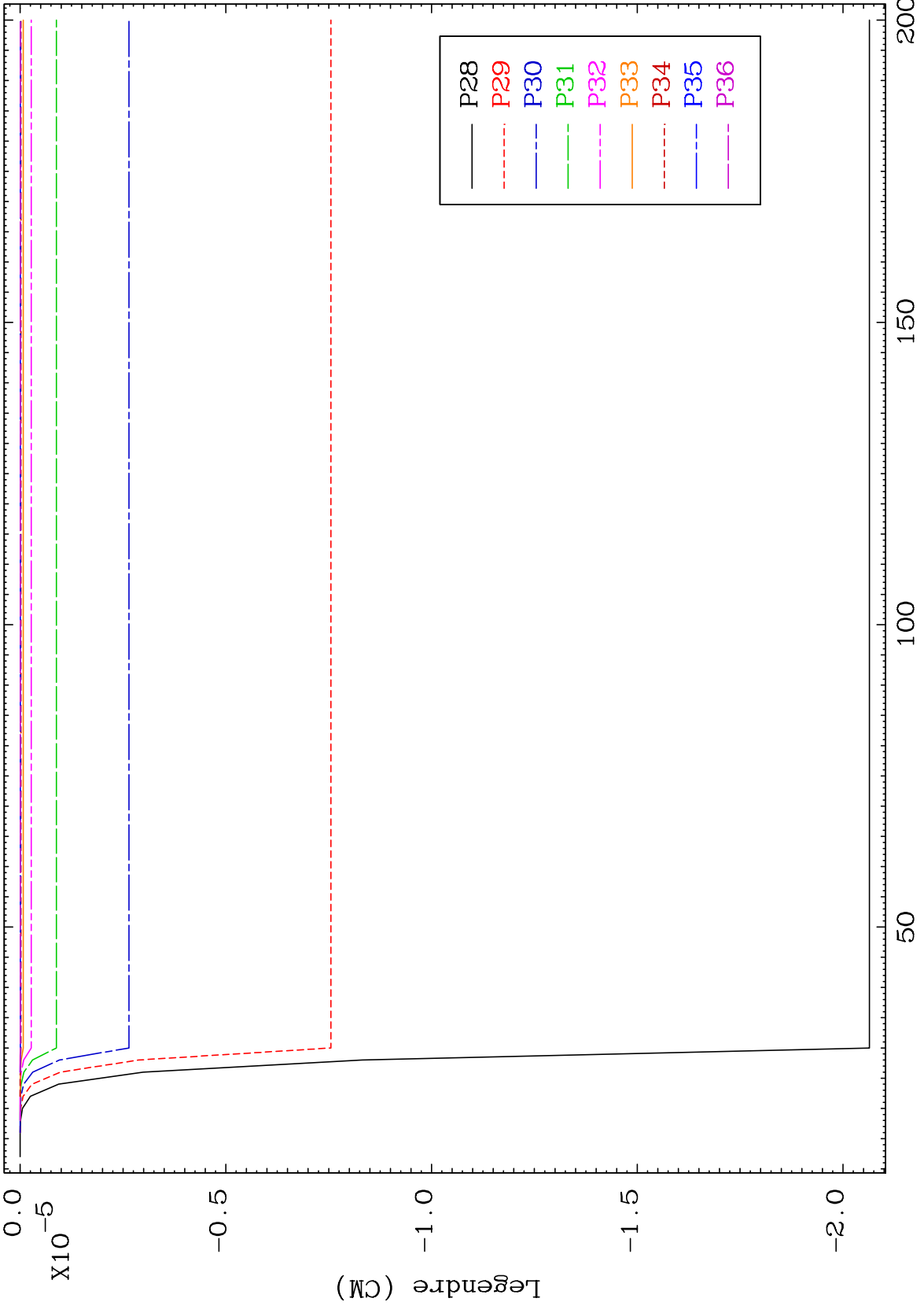
77

Incident Energy (MeV)

71-Lu-180

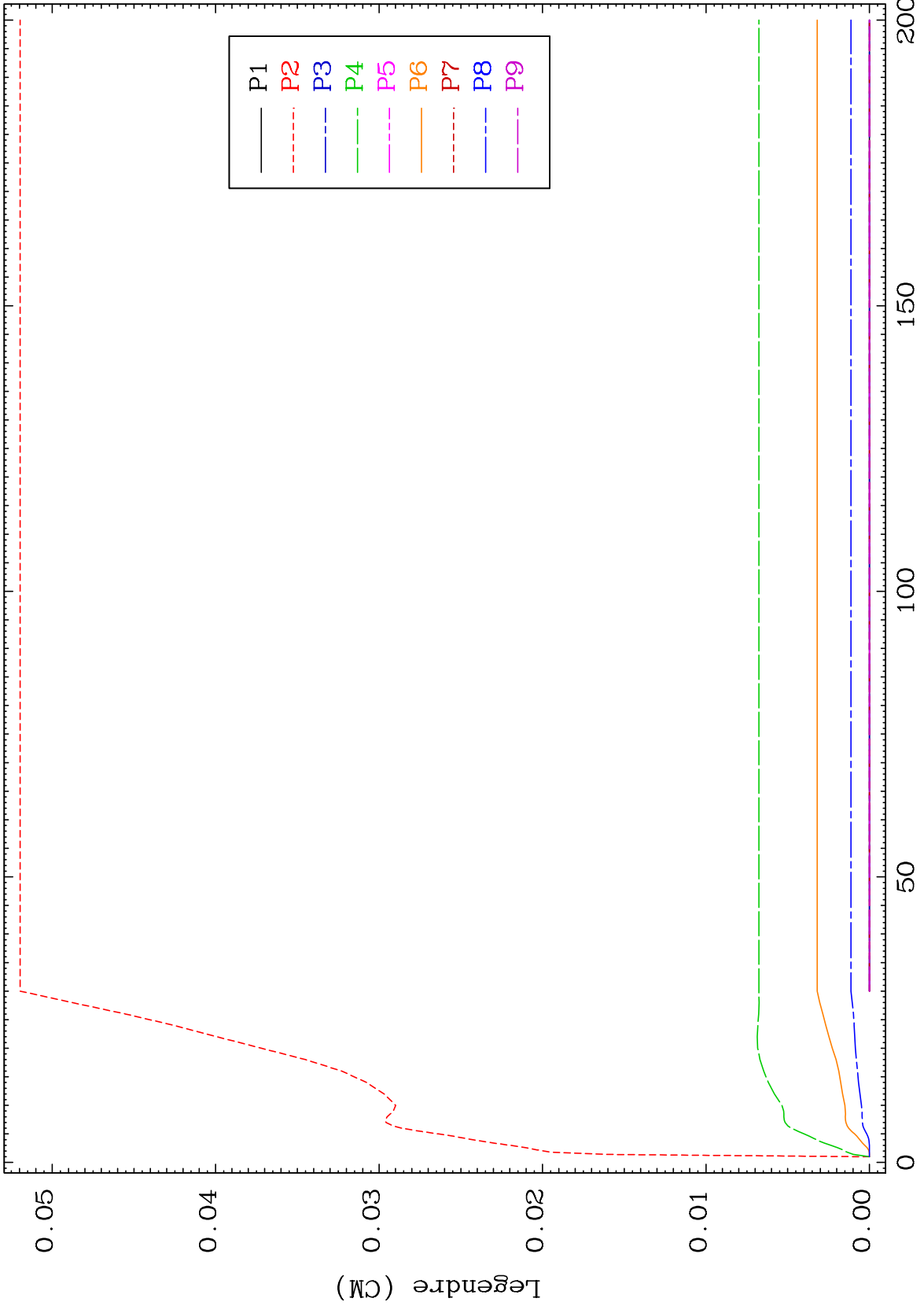
MAT 7140 MT= 67 (n,n') Level 71-Lu-180

Legendre Coefficients



78 Incident Energy (MeV) 71-Lu-180

MAT 7140 MT= 68 (n,n') Level Legendre Coefficients 71-Lu-180

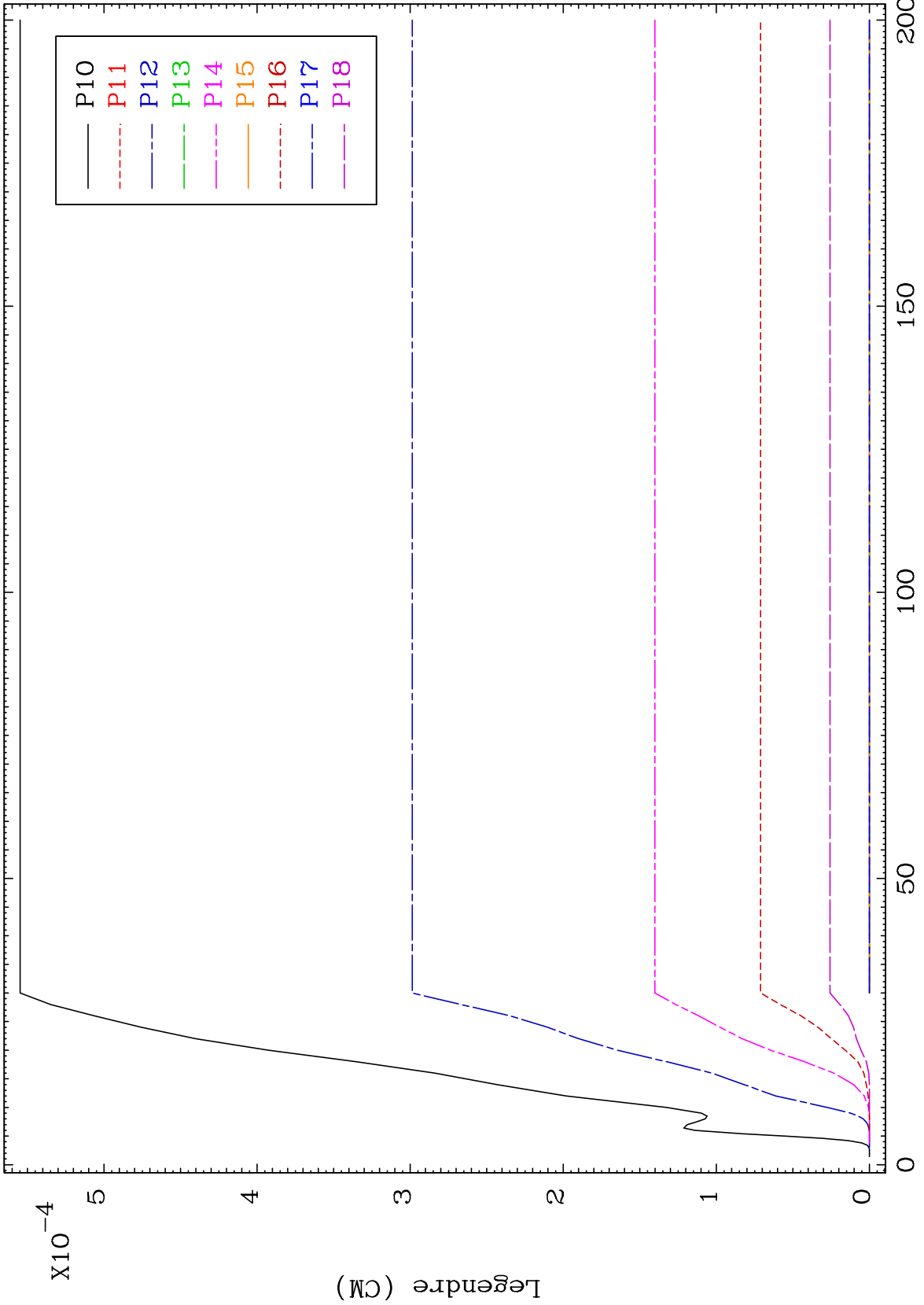


79 71-Lu-180

MAT 7140

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

71-Lu-180

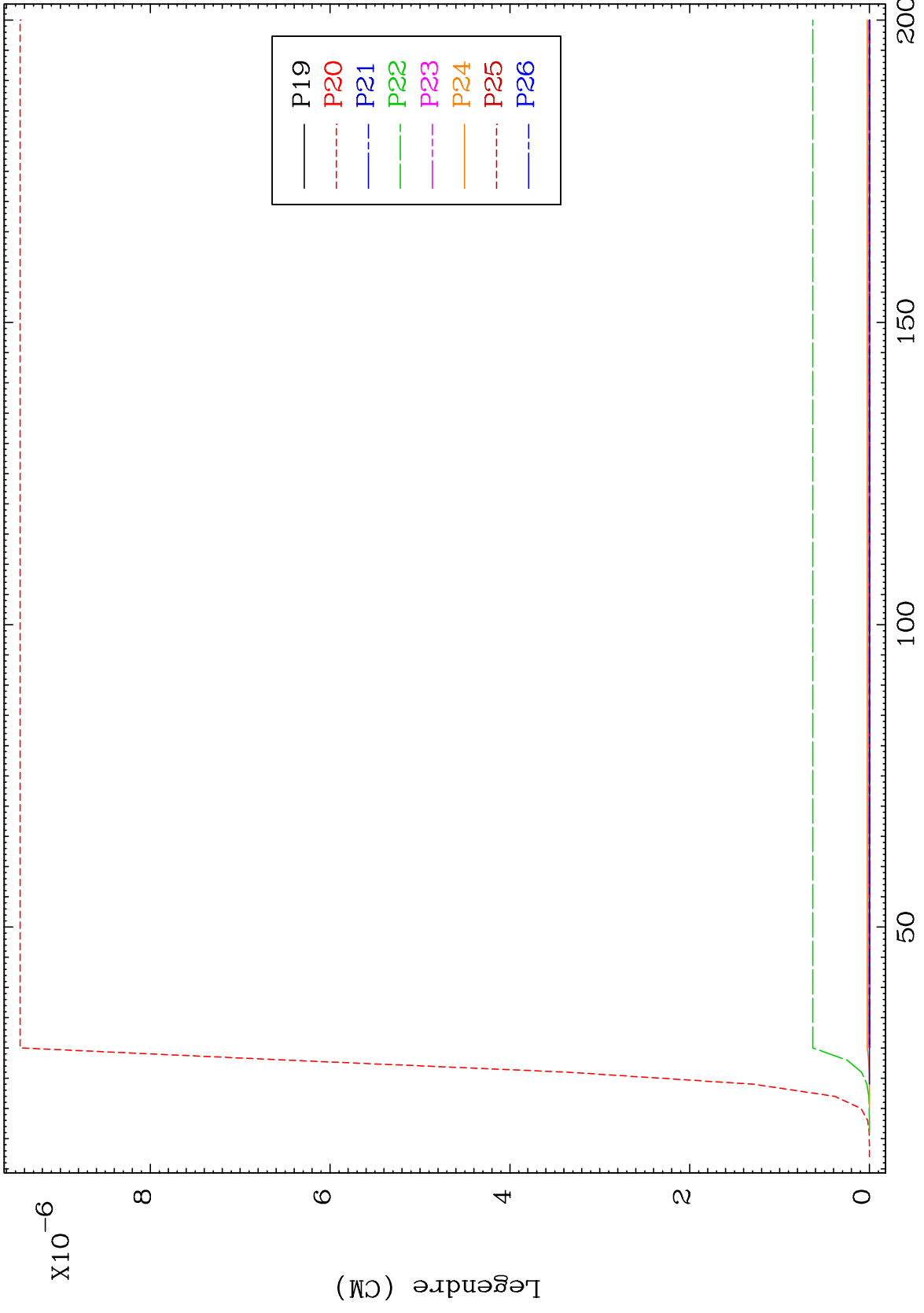


80

Incident Energy (MeV)

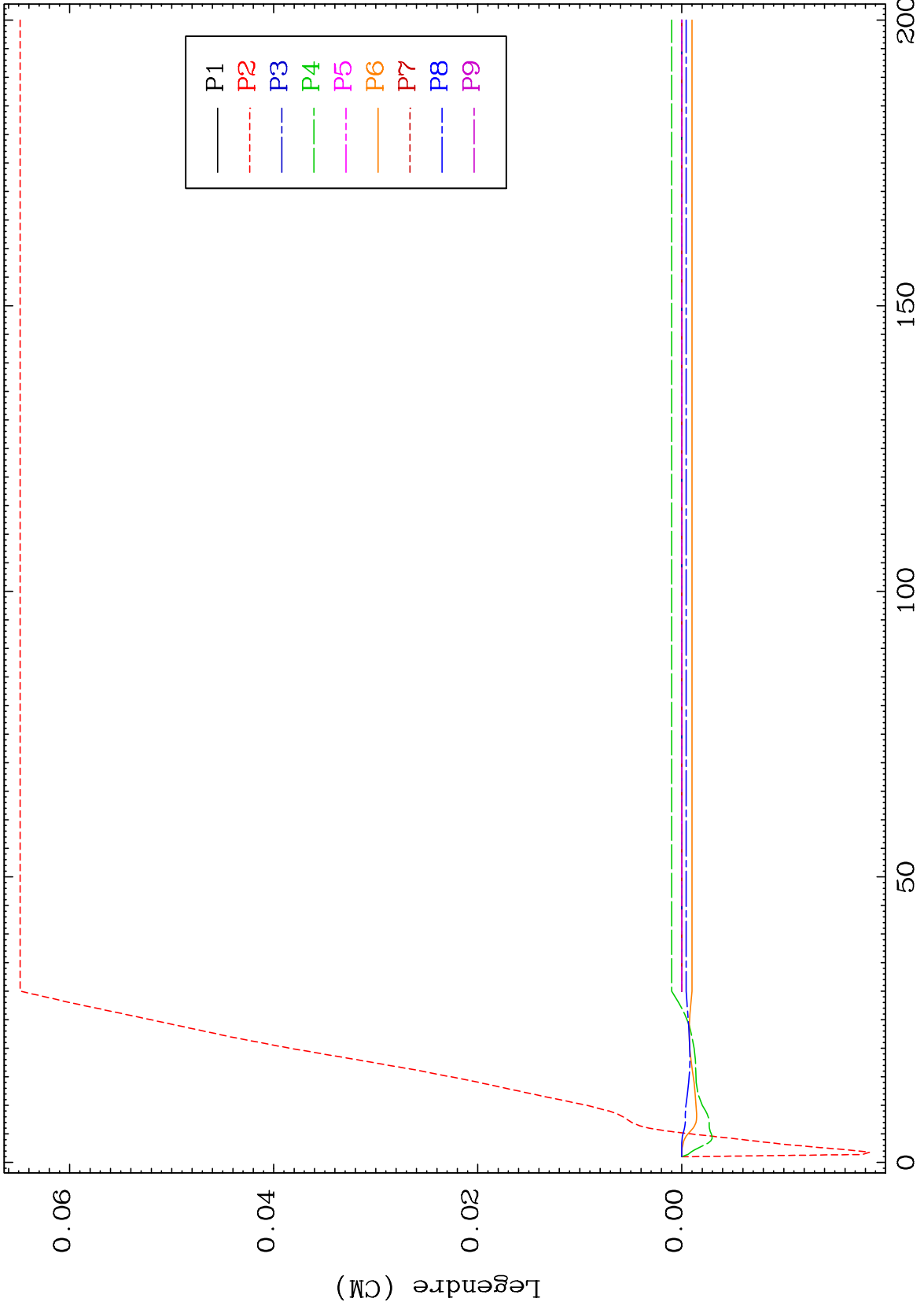
71-Lu-180

MAT 7140 MT= 68 (n,n') Level Legendre Coefficients 71-Lu-180



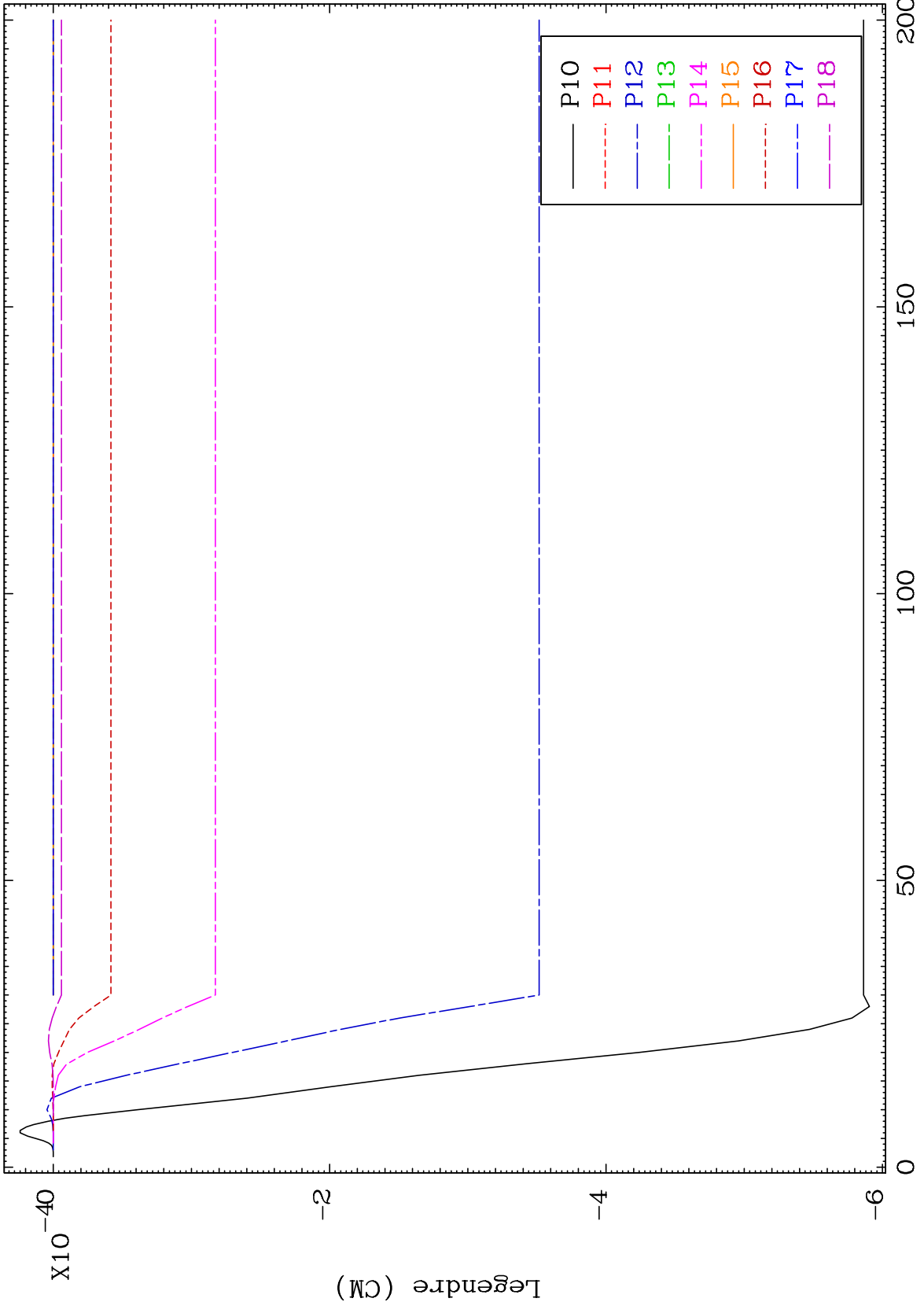
81 71-Lu-180

MAT 7140 MT= 69 (n,n') Level Legendre Coefficients 71-Lu-180



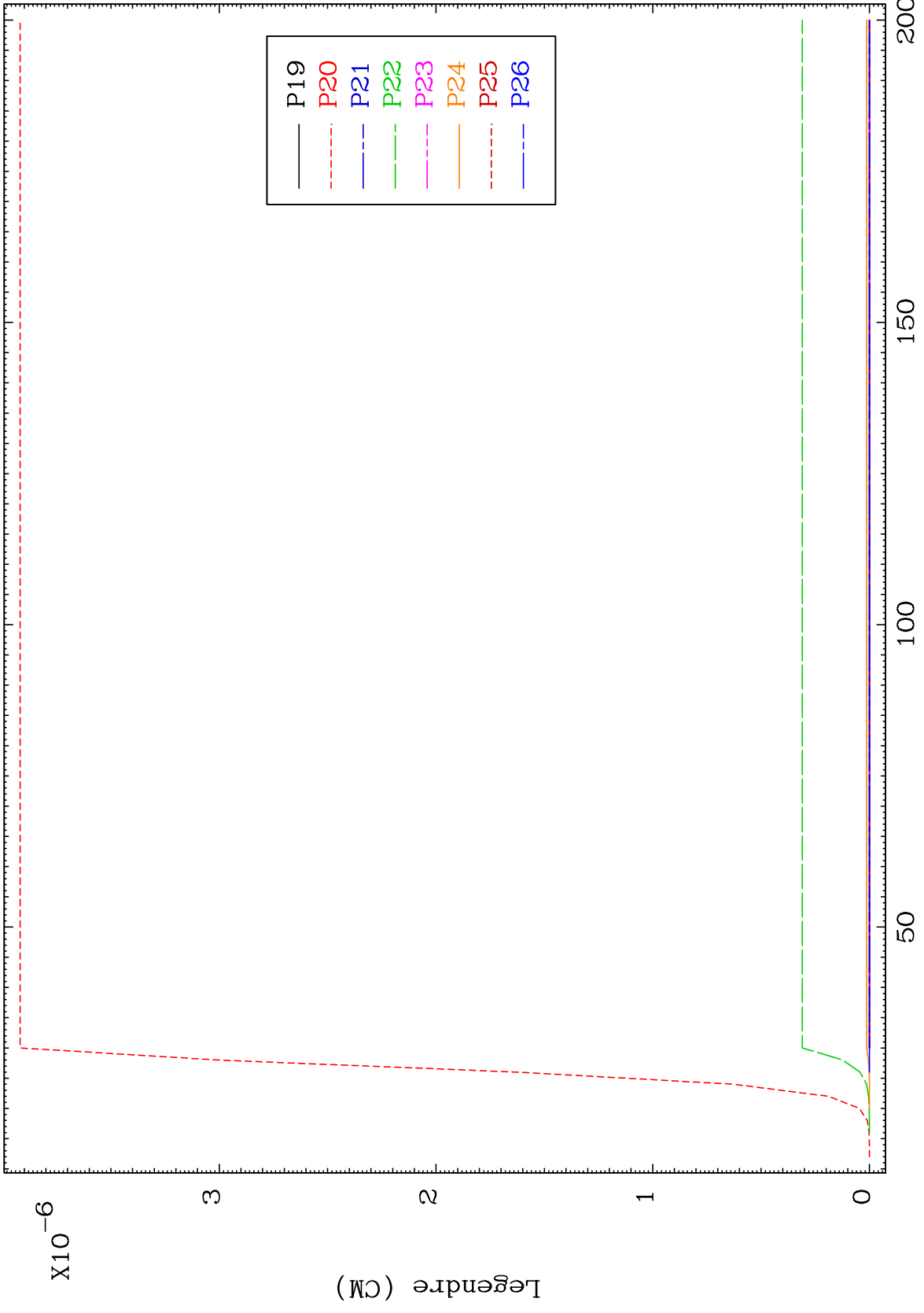
82 71-Lu-180

MAT 7140 MT= 69 (n,n') Level Legendre Coefficients 71-Lu-180



83 71-Lu-180

MAT 7140 MT= 69 (n,n') Level Legendre Coefficients 71-Lu-180

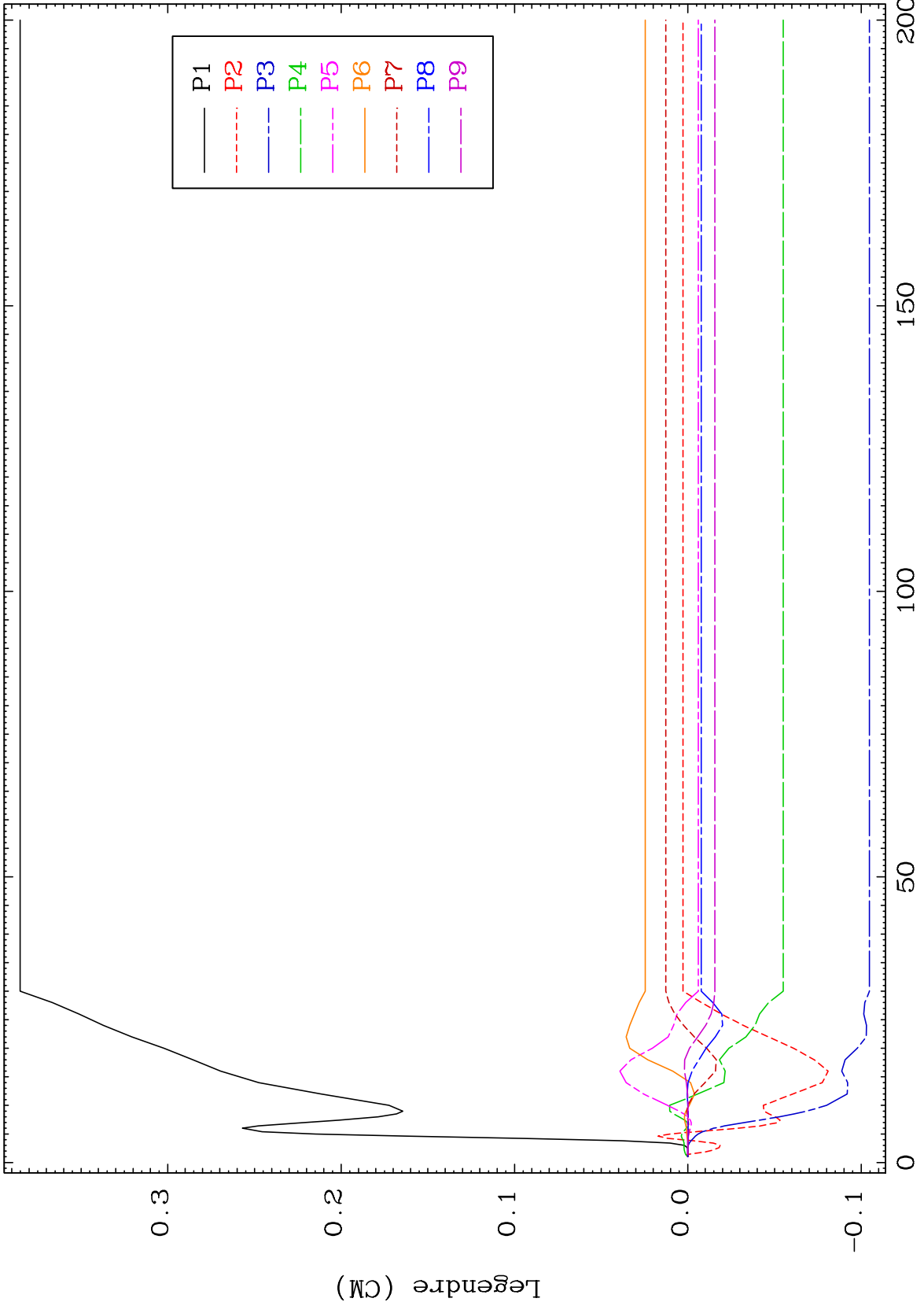


84 71-Lu-180

MAT 7140

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

71-Lu-180

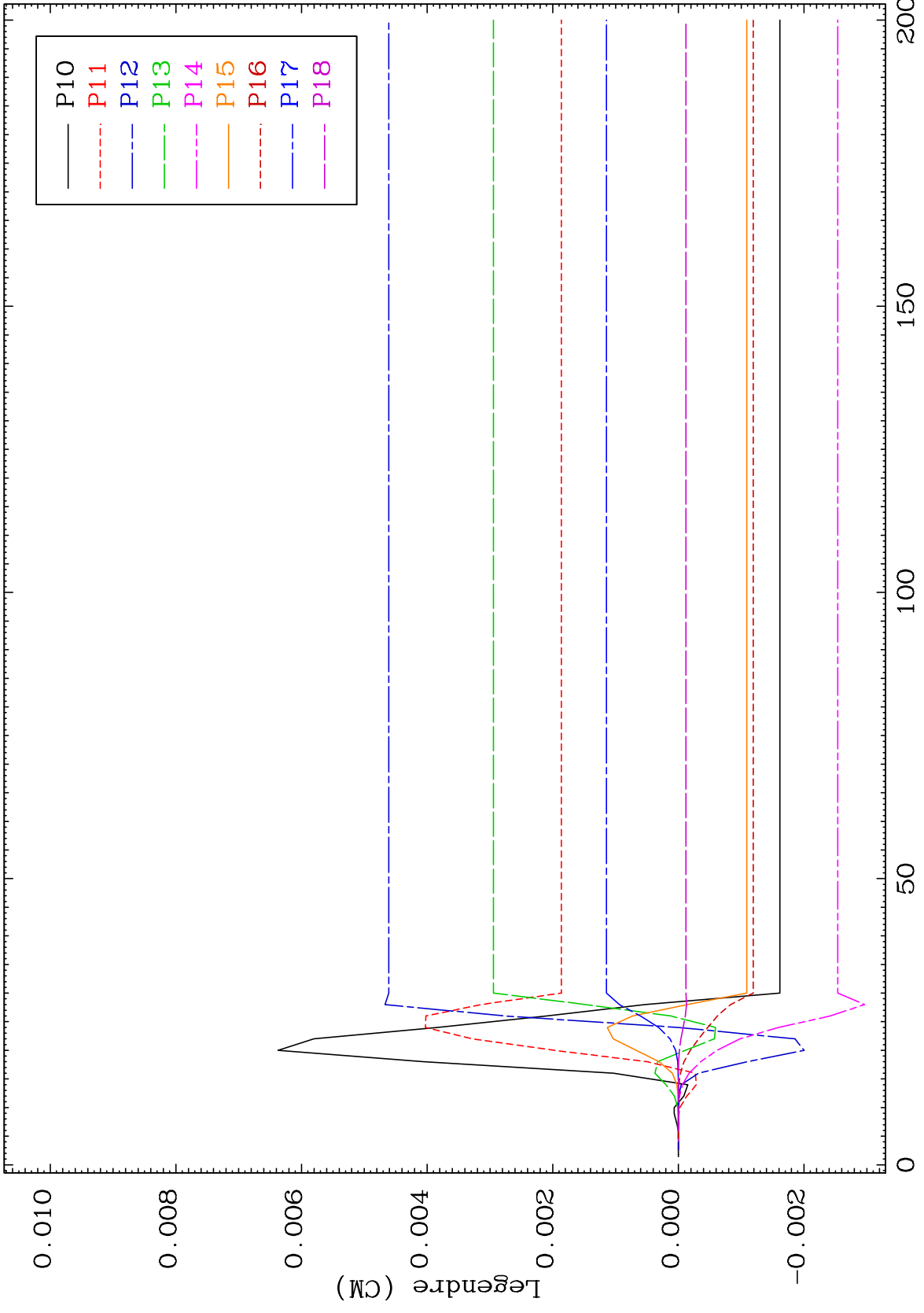


85

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 70 (n,n') Level Legendre Coefficients 71-Lu-180

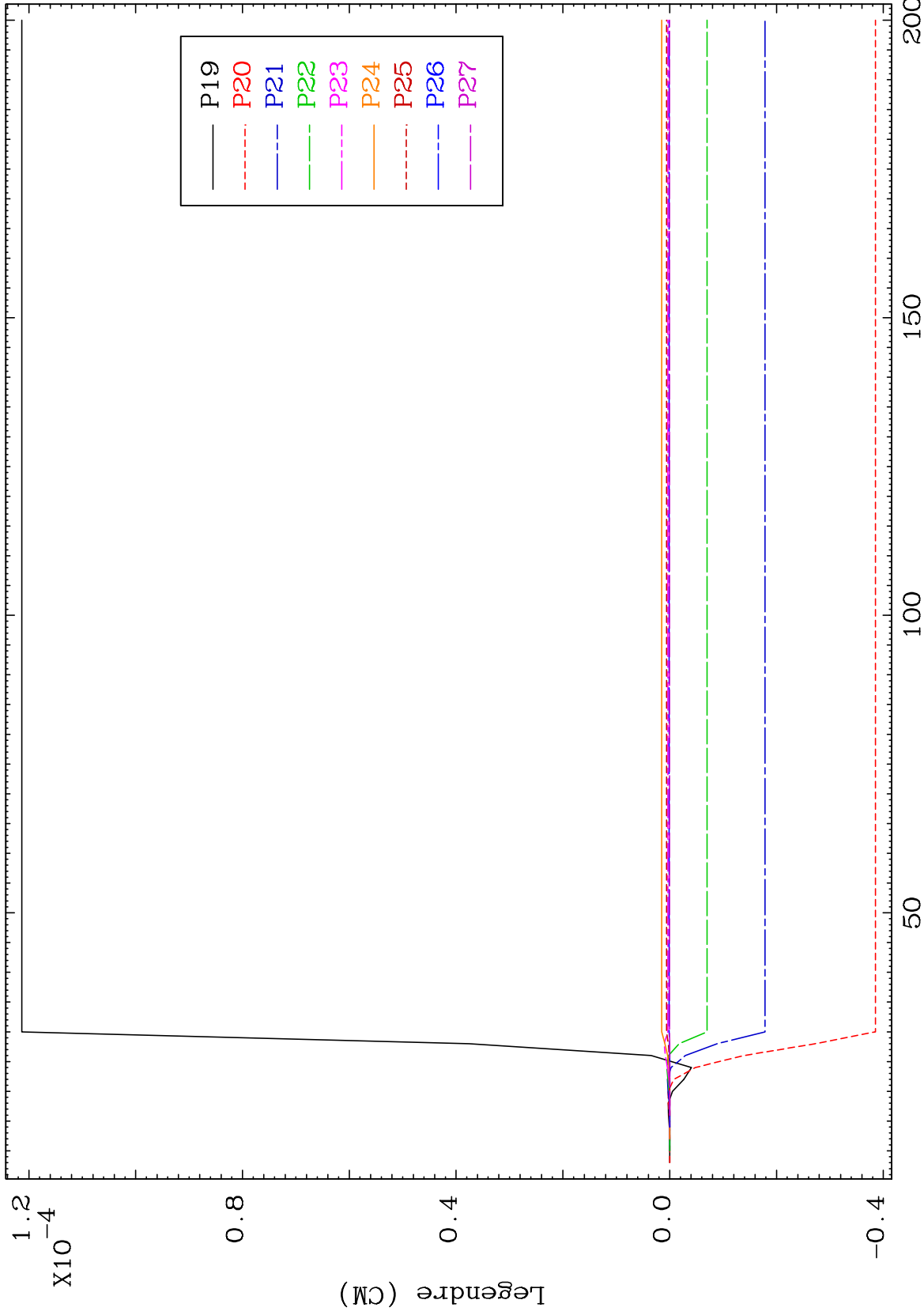


86 71-Lu-180

MAT 7140

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

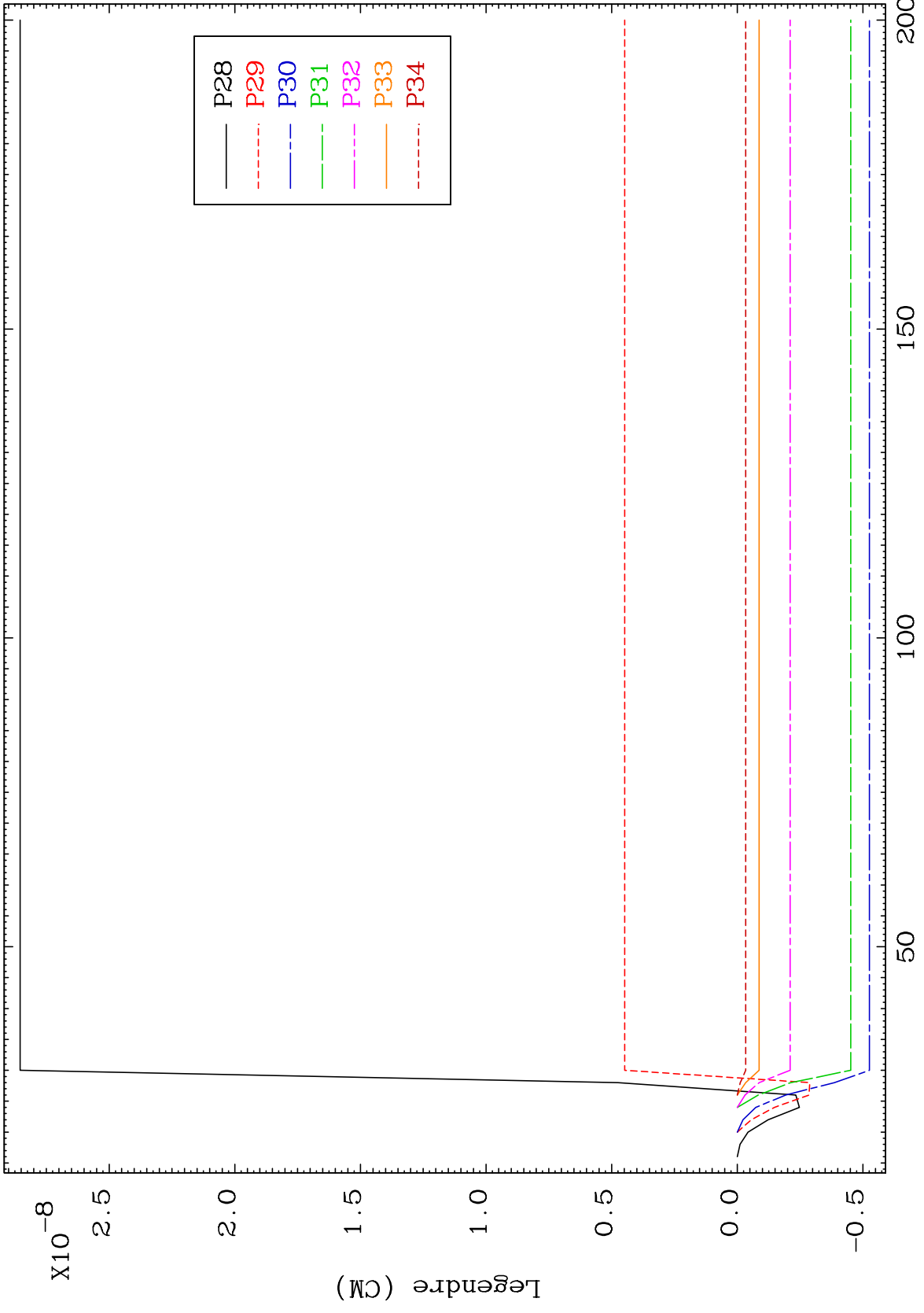
71-Lu-180



87

Incident Energy (MeV)

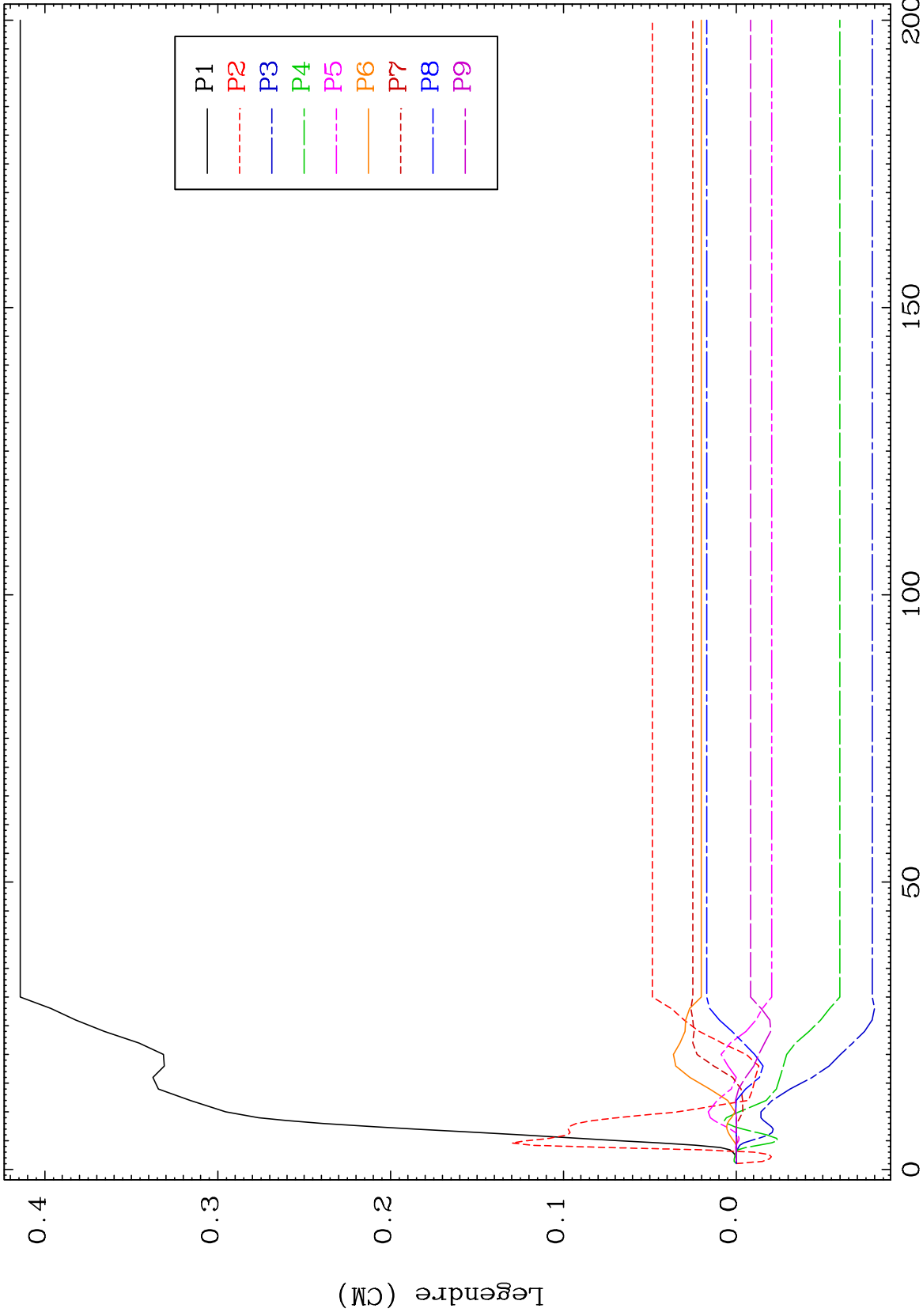
71-Lu-180



MAT 7140

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

71-Lu-180

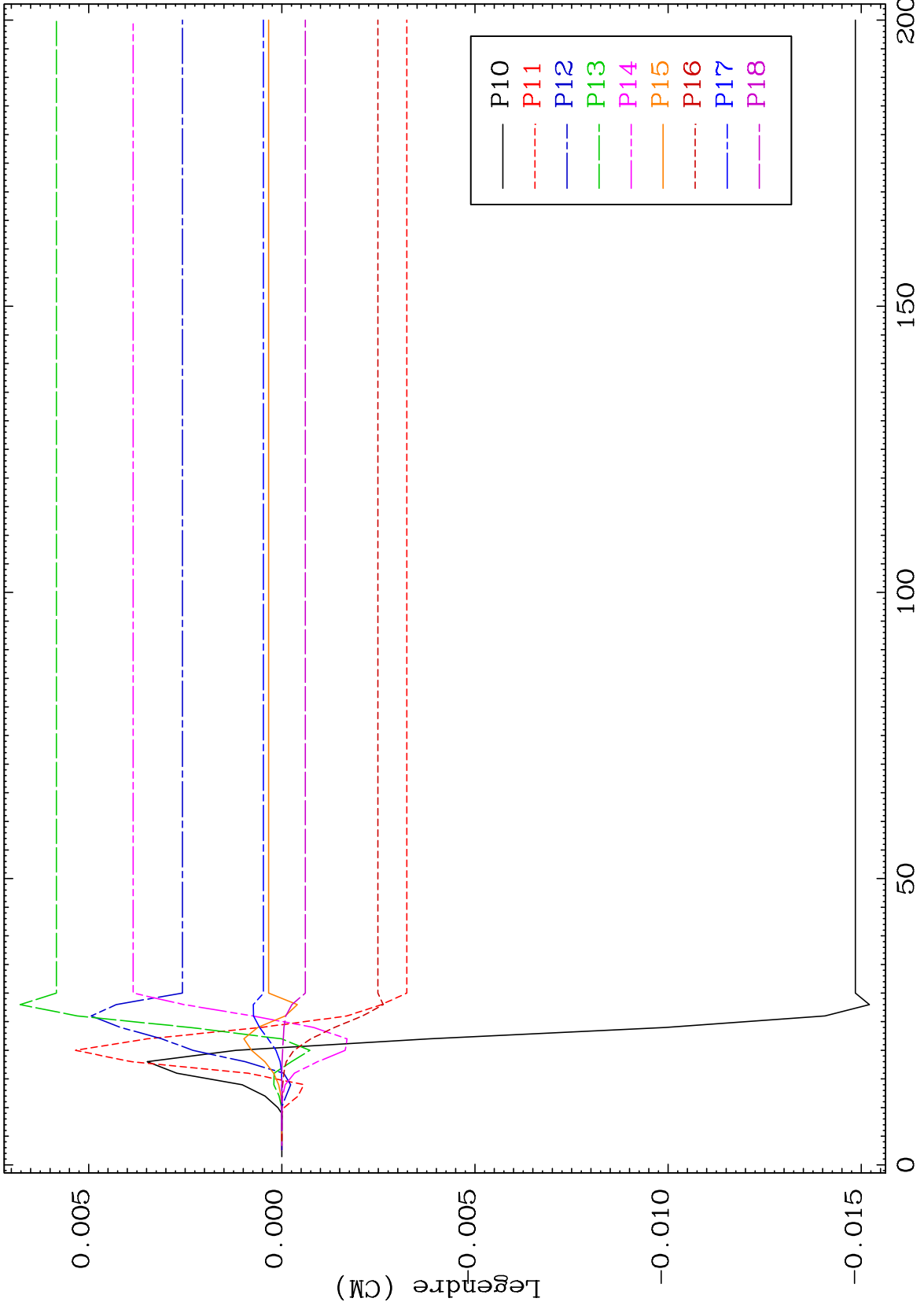


89

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 71 (n,n') Level Legendre Coefficients 71-Lu-180

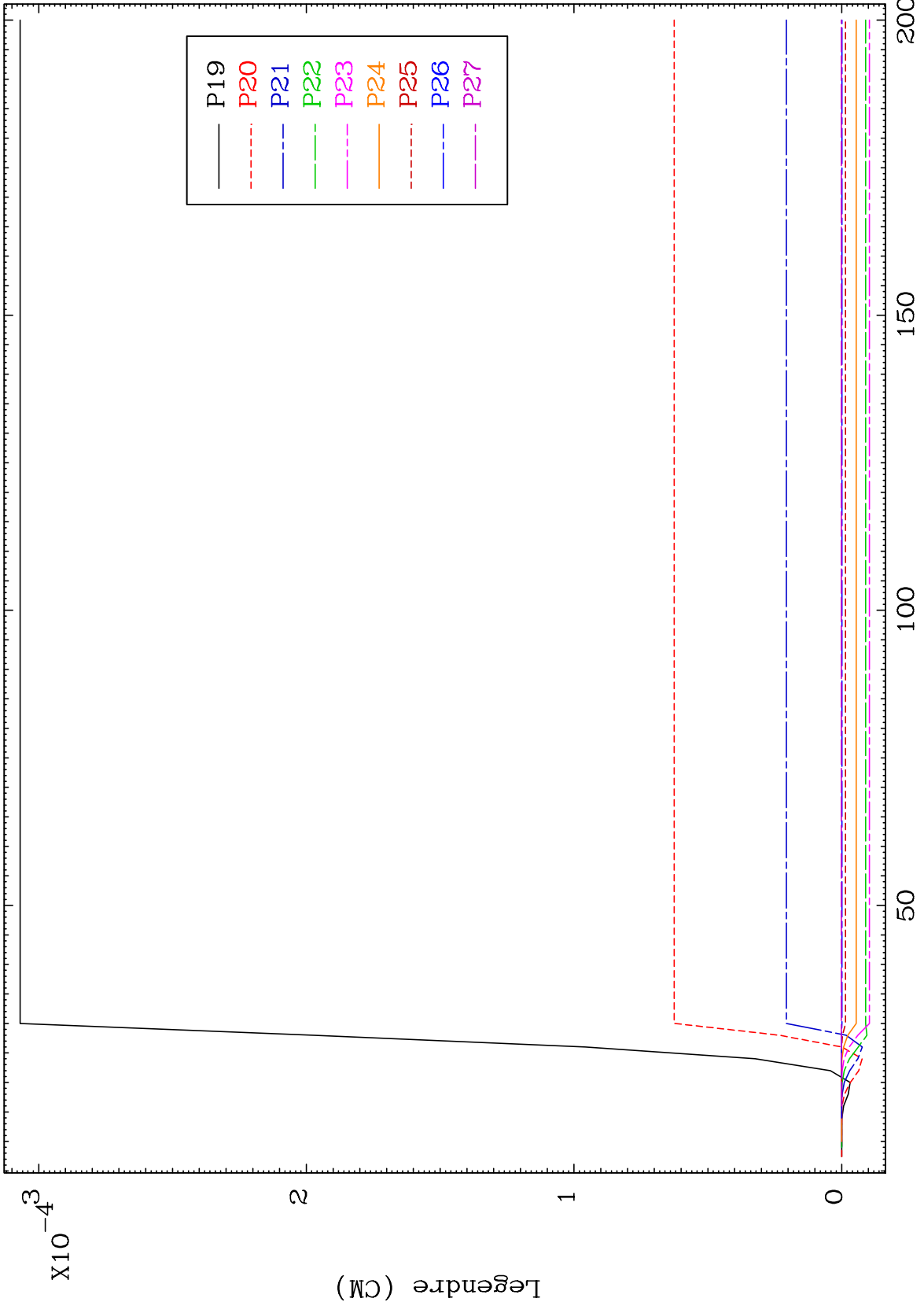


90 Incident Energy (MeV) 71-Lu-180

MAT 7140

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

71-Lu-180



91

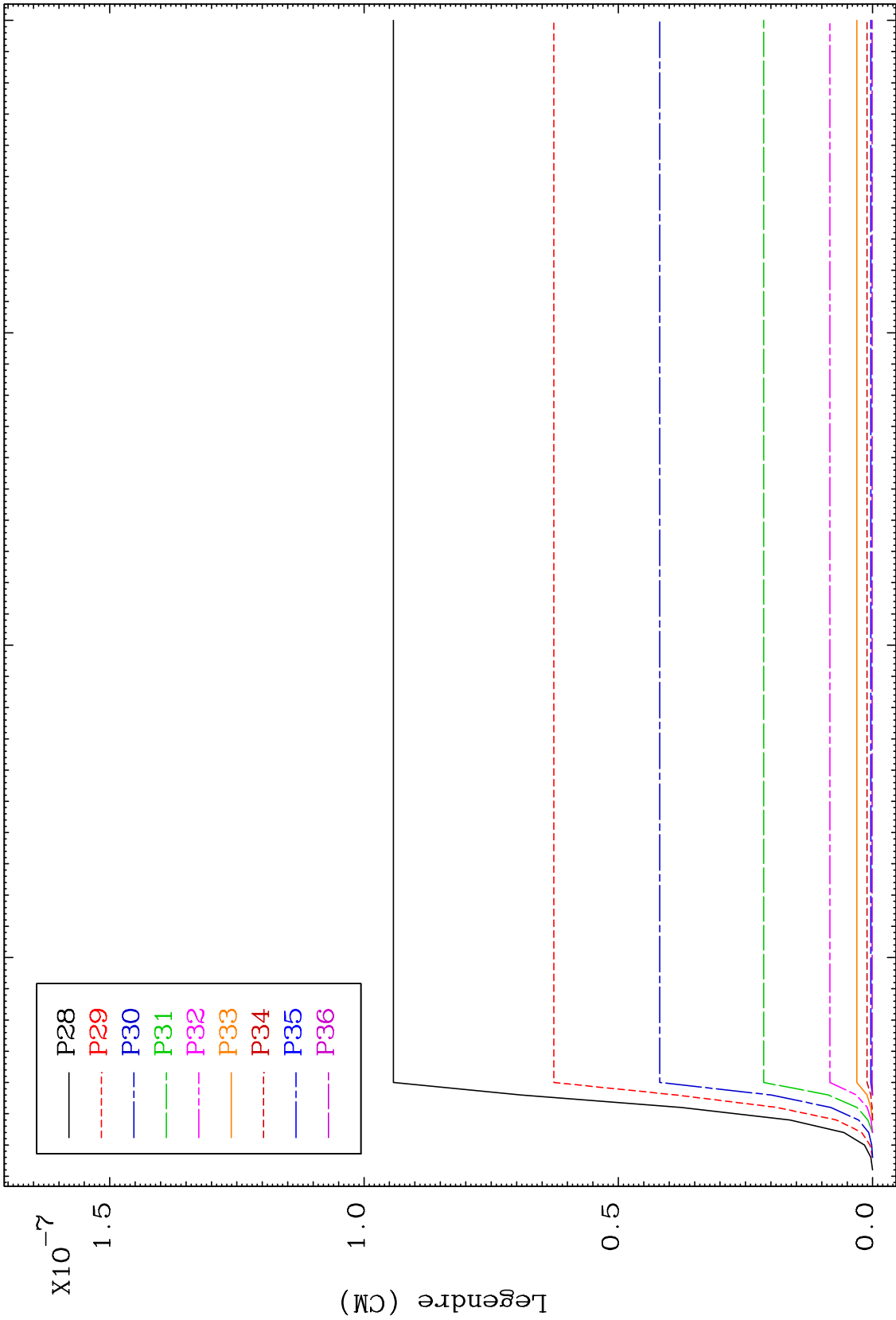
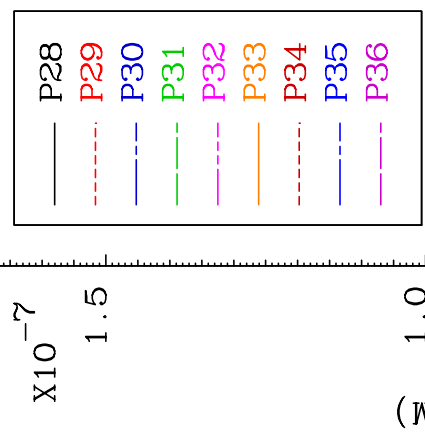
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



92

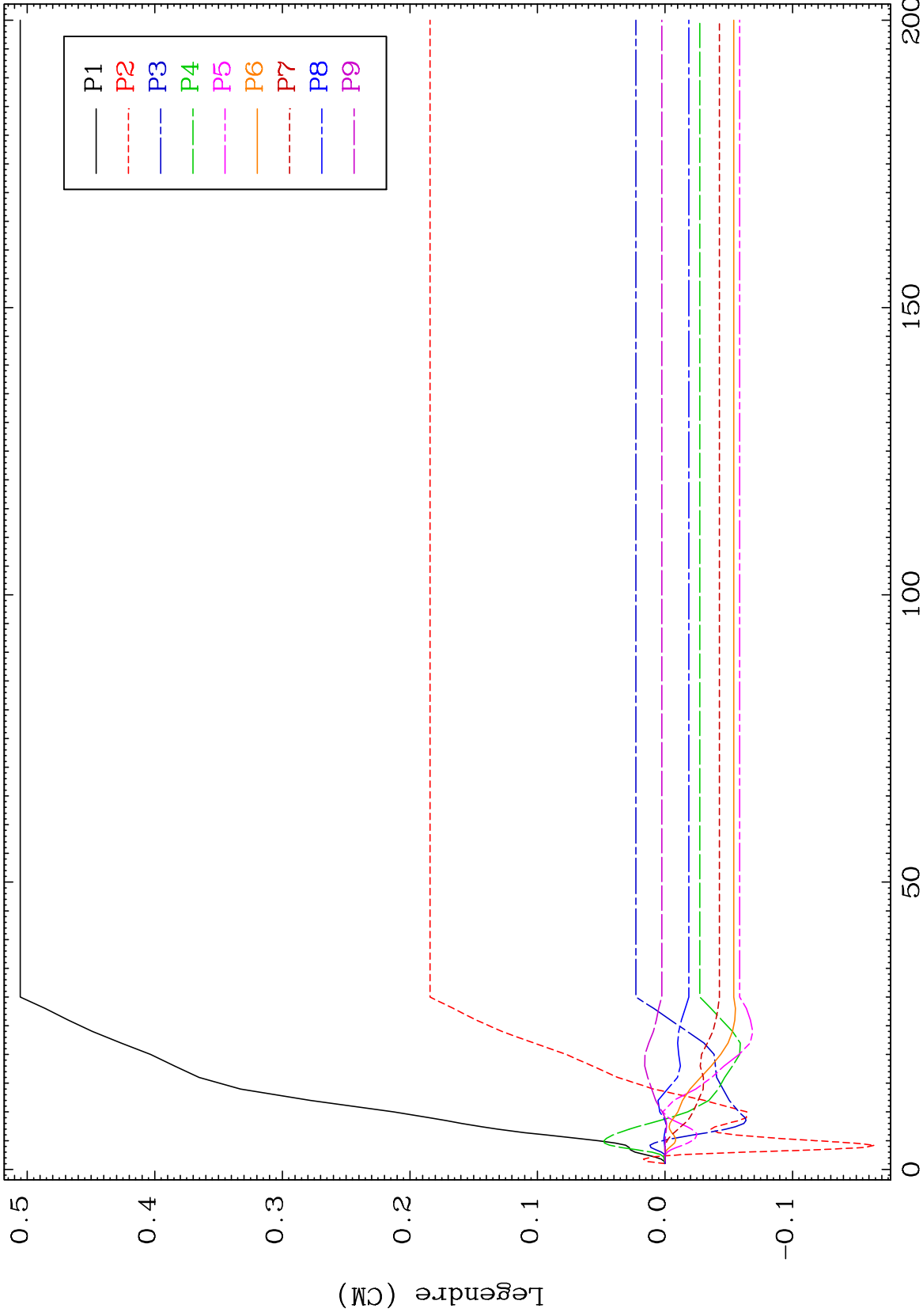
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180

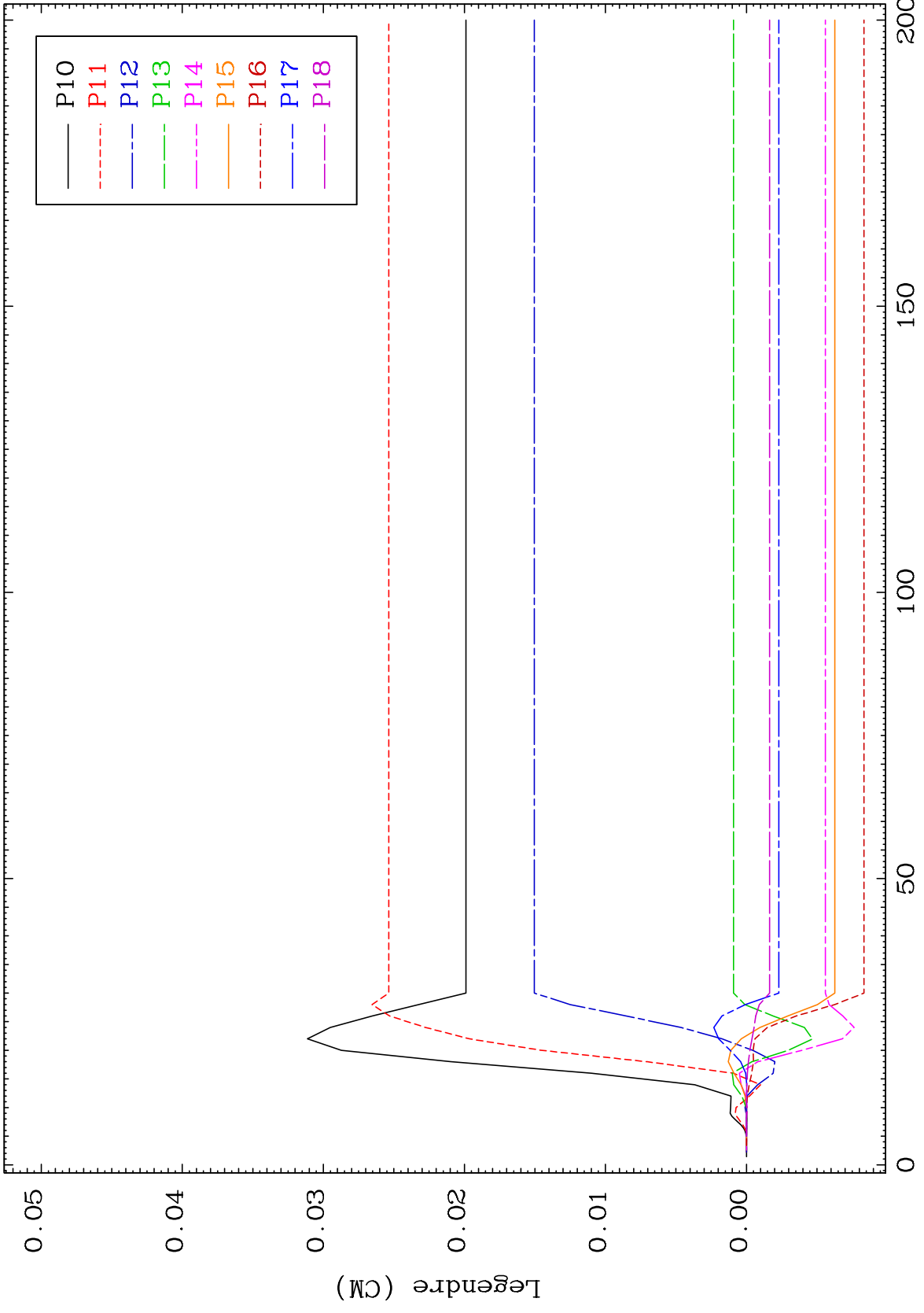


93

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 72 (n,n') Level Legendre Coefficients 71-Lu-180

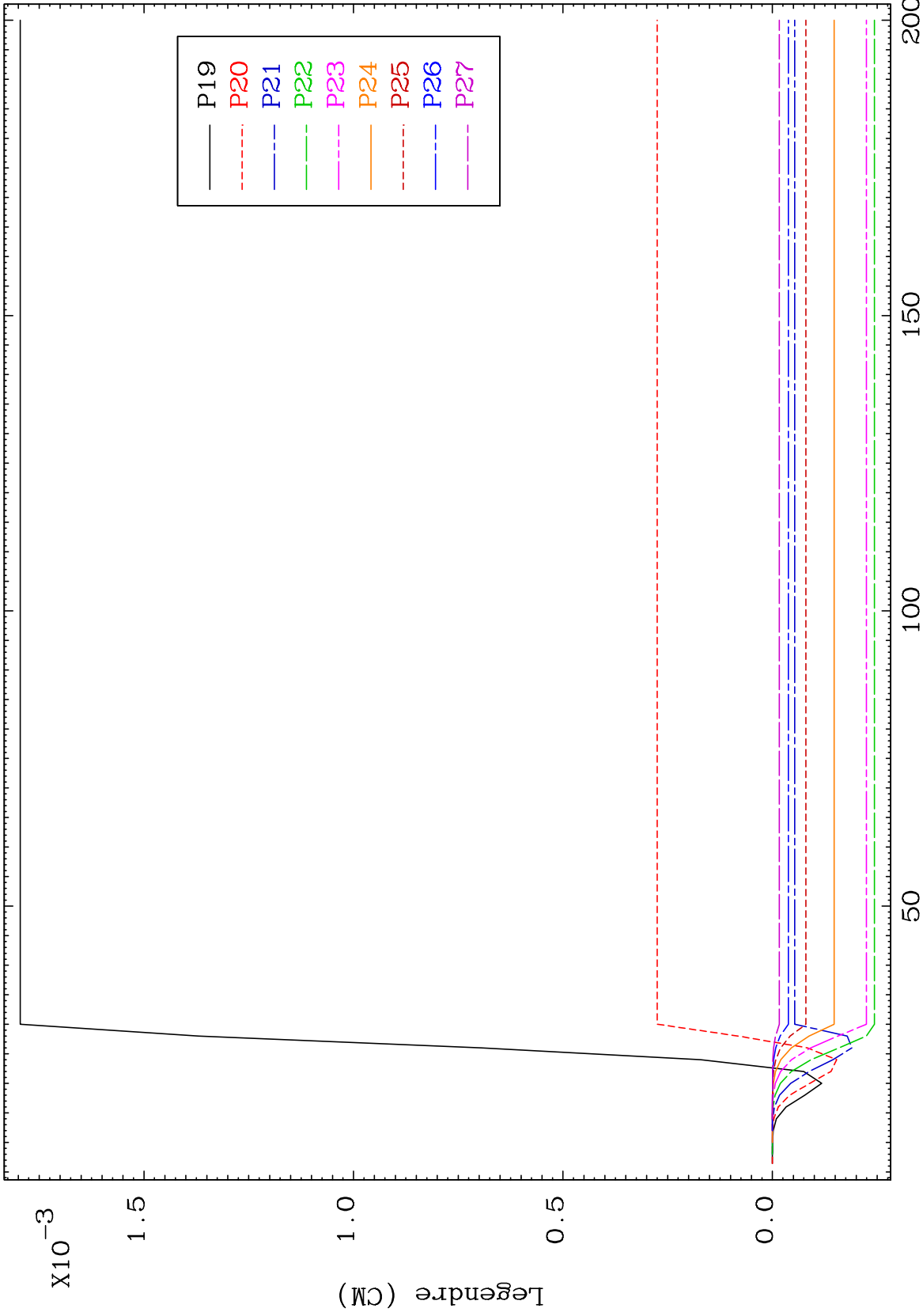


94 71-Lu-180

MAT 7140

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

71-Lu-180

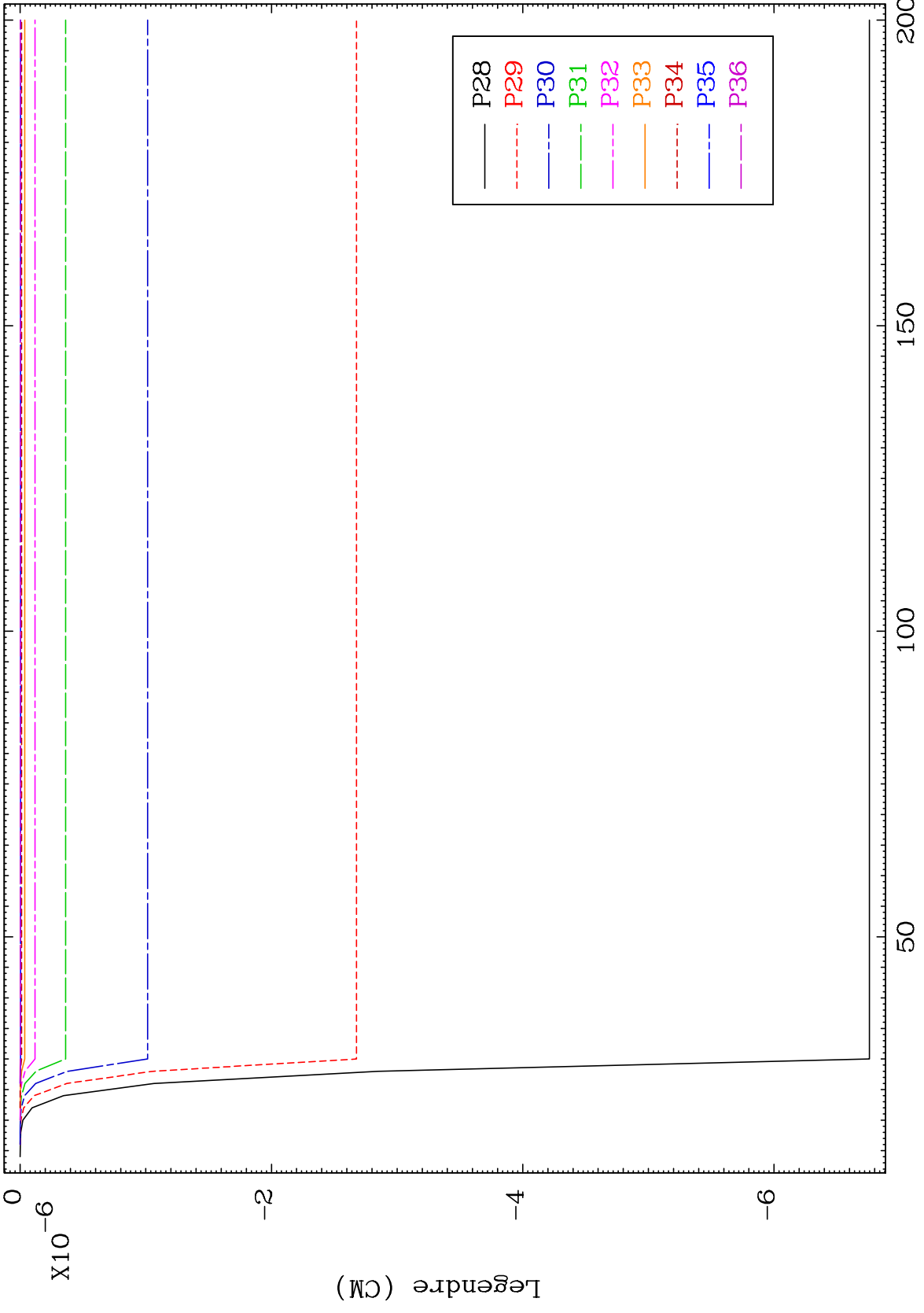


95

Incident Energy (MeV)

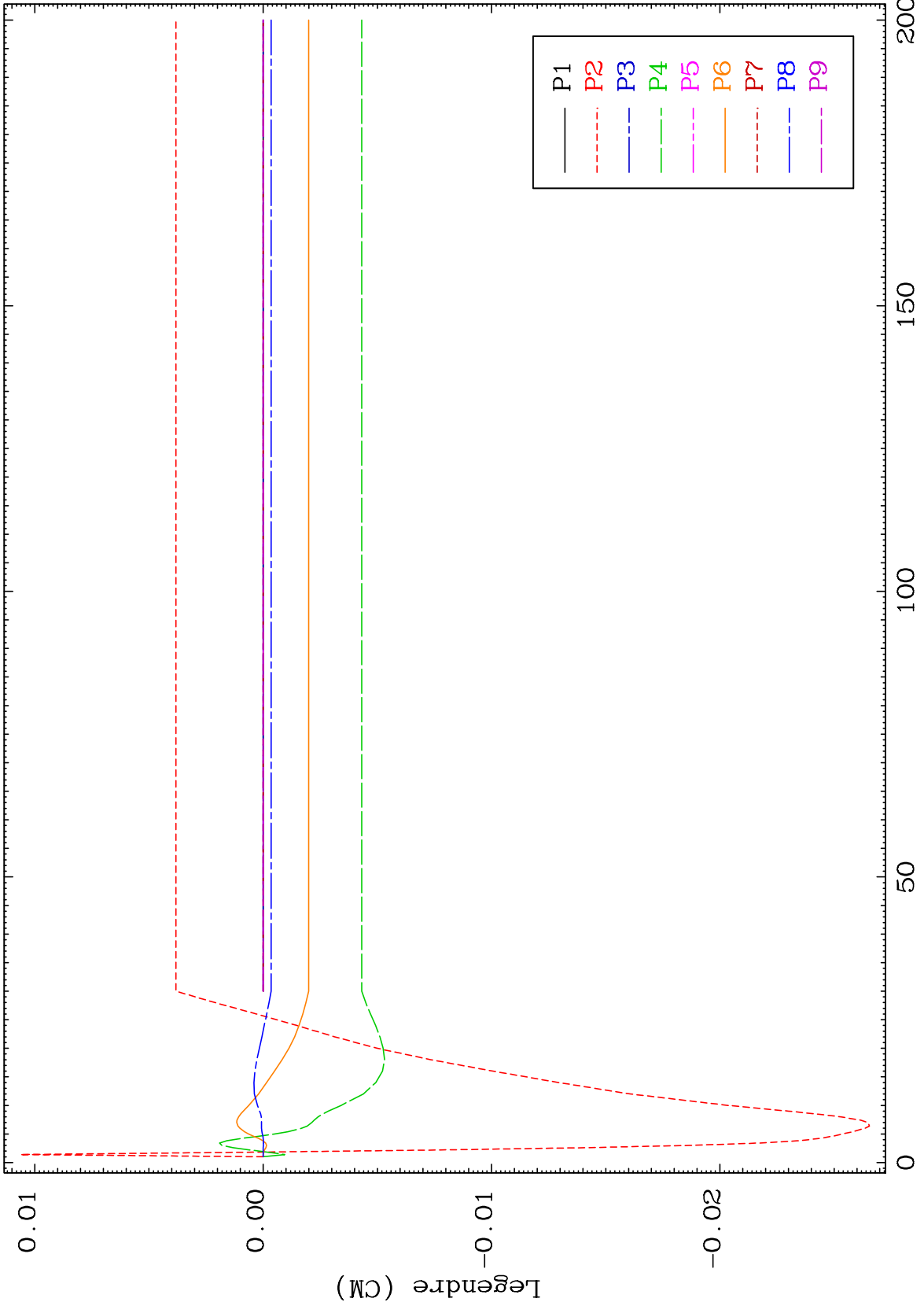
71-Lu-180

MAT 7140 MT= 72 (n,n') Level Legendre Coefficients 71-Lu-180



96 71-Lu-180

MAT 7140 MT= 73 (n,n') Level Legendre Coefficients 71-Lu-180

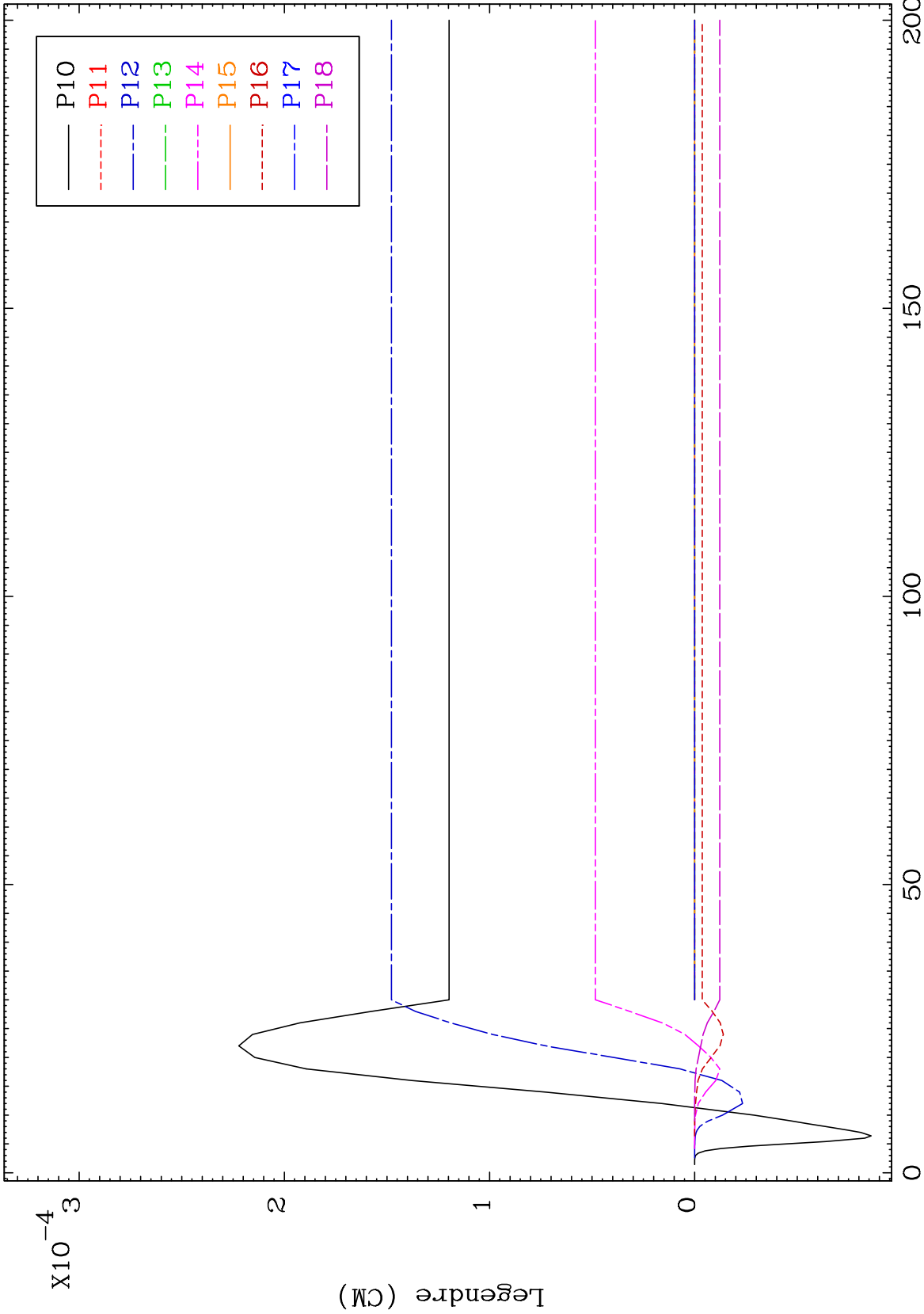


97 Incident Energy (MeV) 71-Lu-180

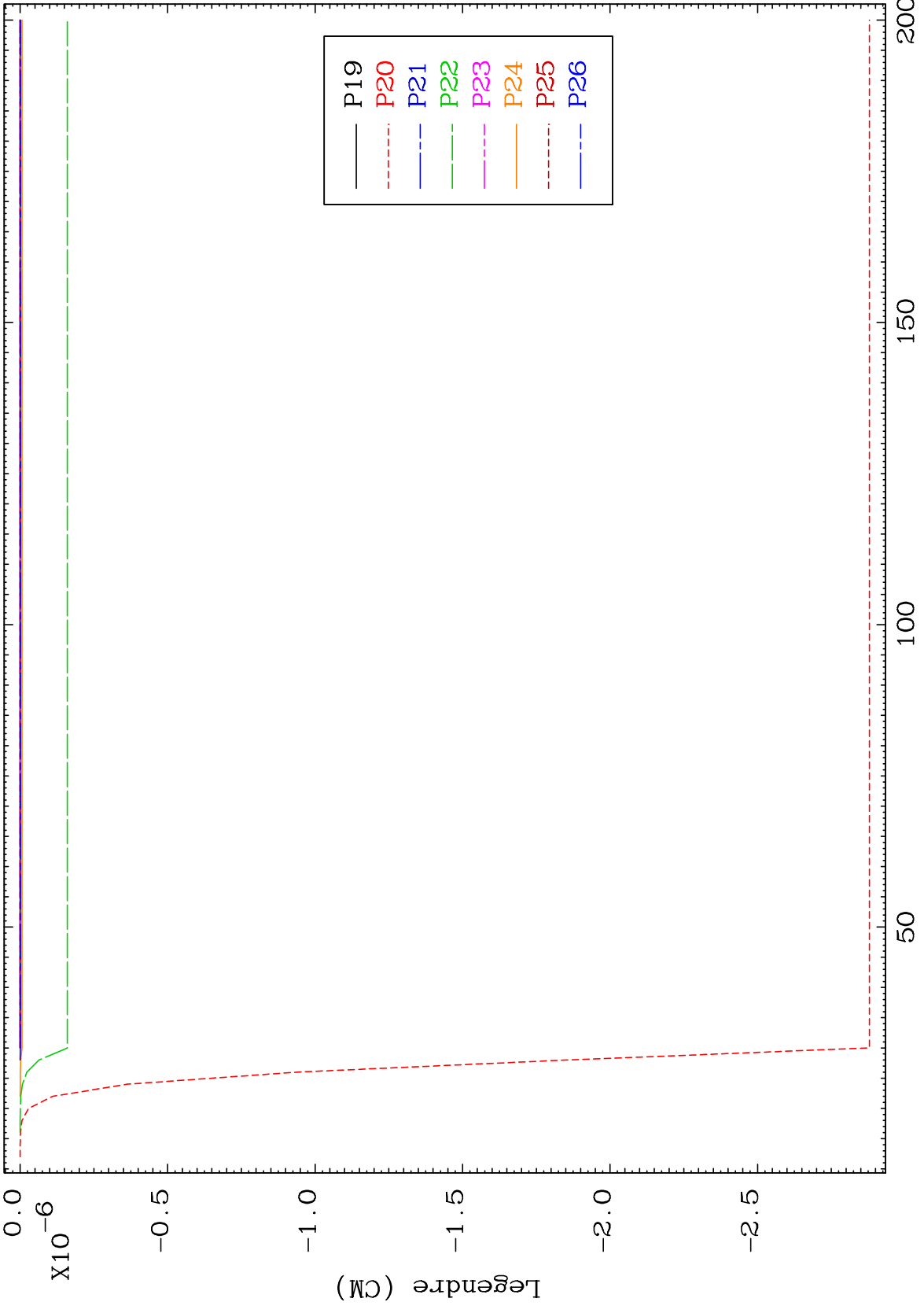
MAT 7140

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

71-Lu-180



MAT 7140 MT= 73 (n,n') Level Legendre Coefficients 71-Lu-180

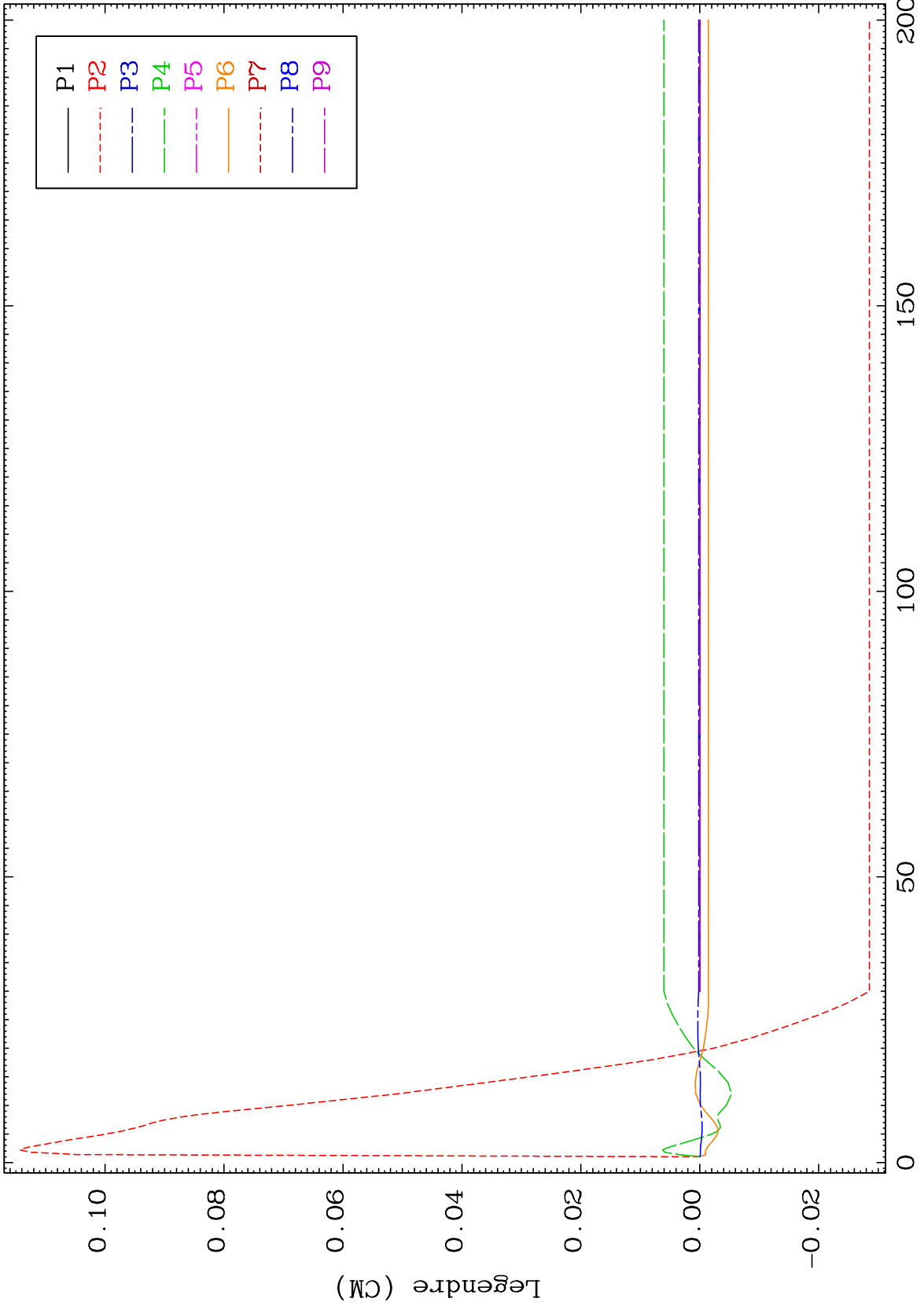


99 71-Lu-180

MAT 7140

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

71-Lu-180



71-Lu-180

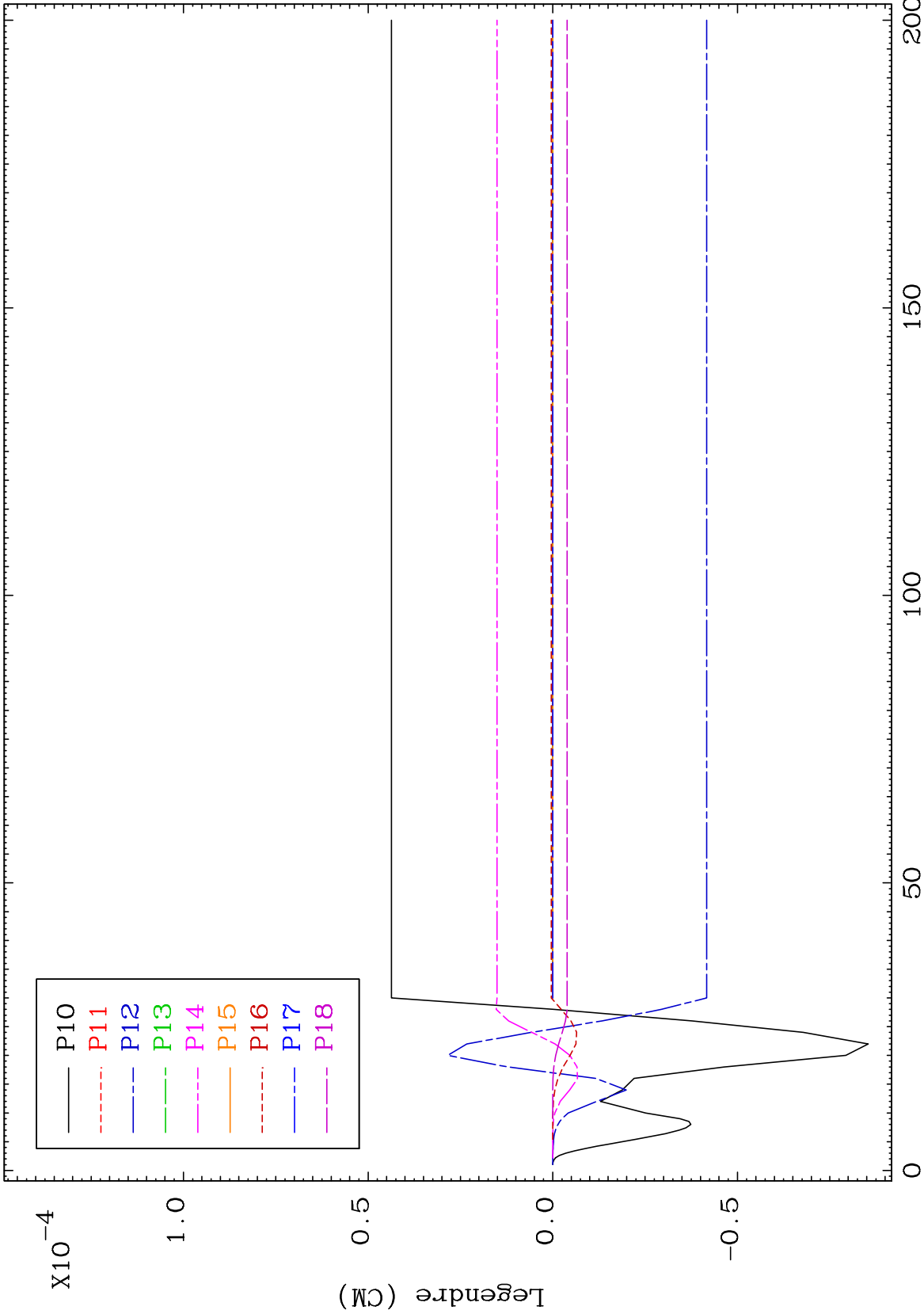
Incident Energy (MeV)

Legendre (CM)

MAT 7140

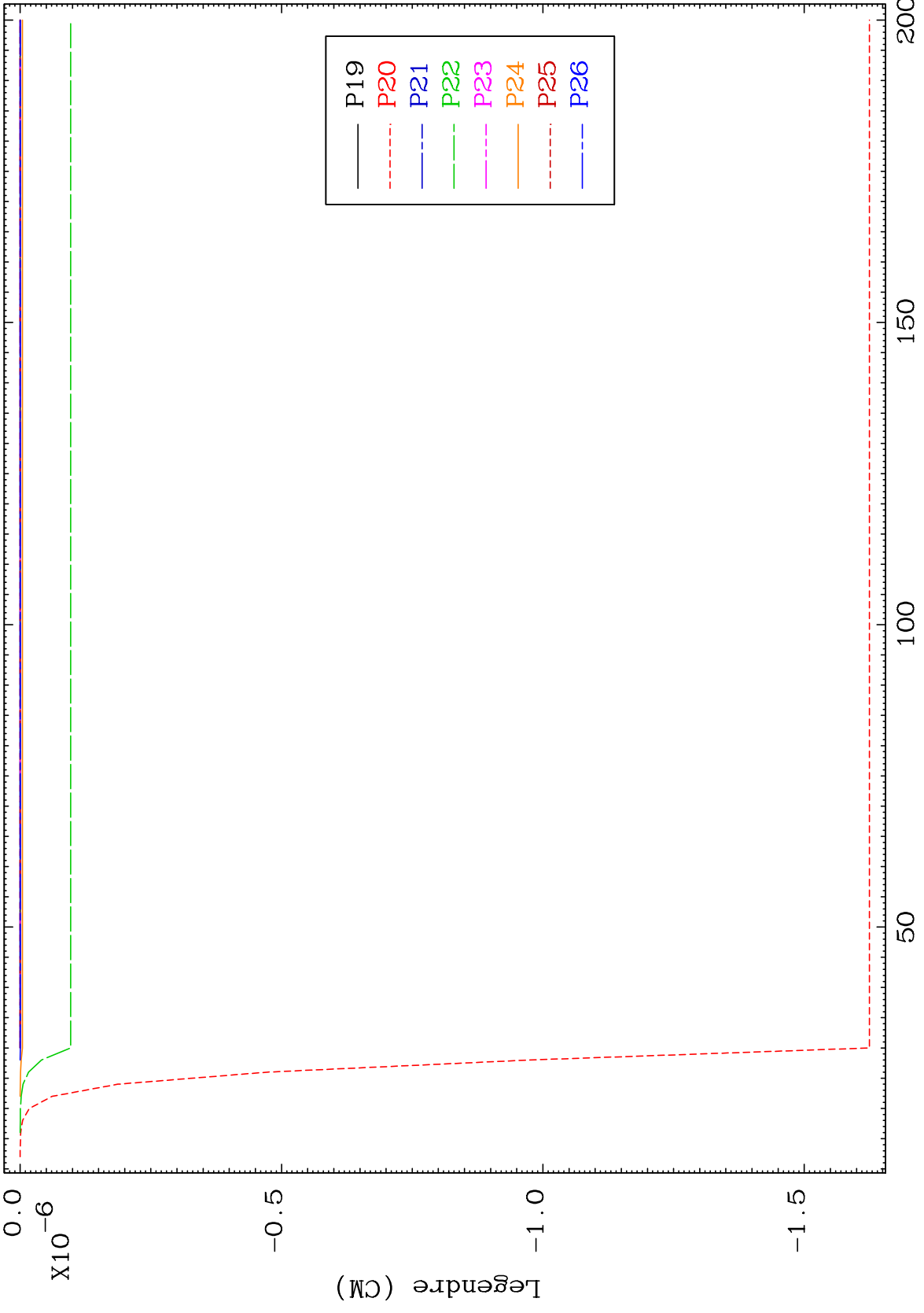
MT= 74 (n,n') Level
Legendre Coefficients

71-Lu-180



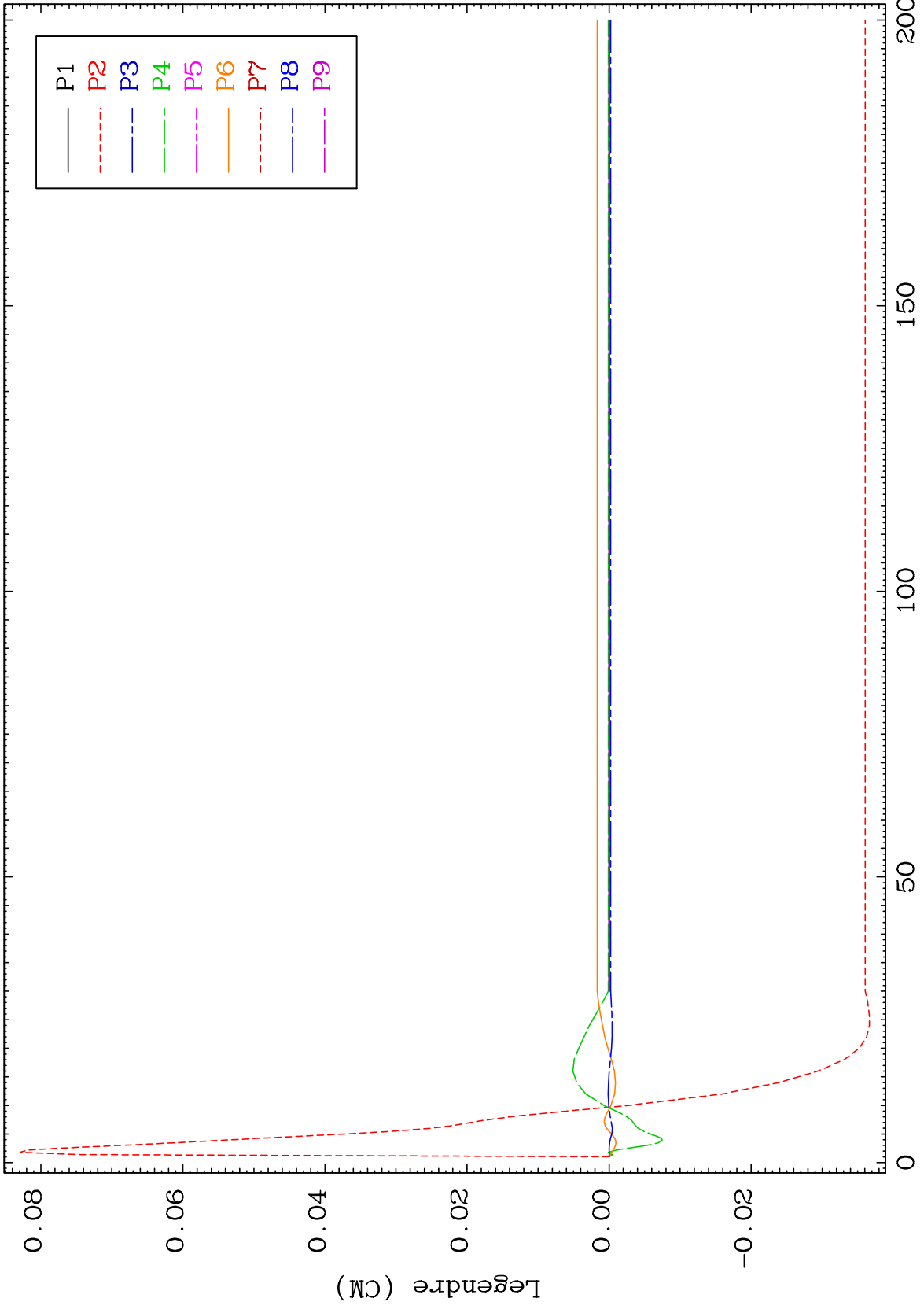
101

MAT 7140 MT= 74 (n,n') Level Legendre Coefficients 71-Lu-180



102 Incident Energy (MeV) 71-Lu-180

MAT 7140 MT= 75 (n,n') Level Legendre Coefficients 71-Lu-180

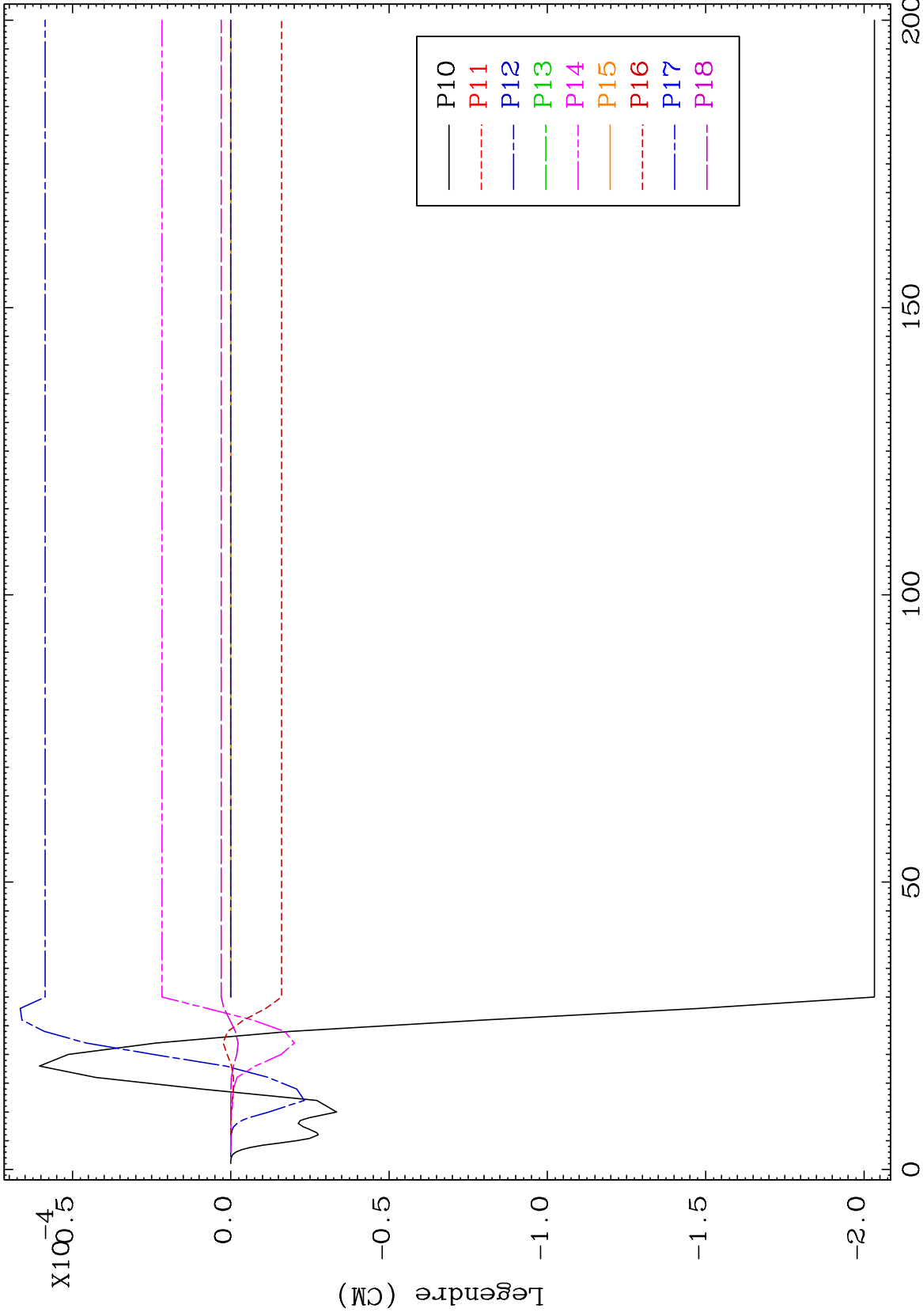


103 71-Lu-180

MAT 7140

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

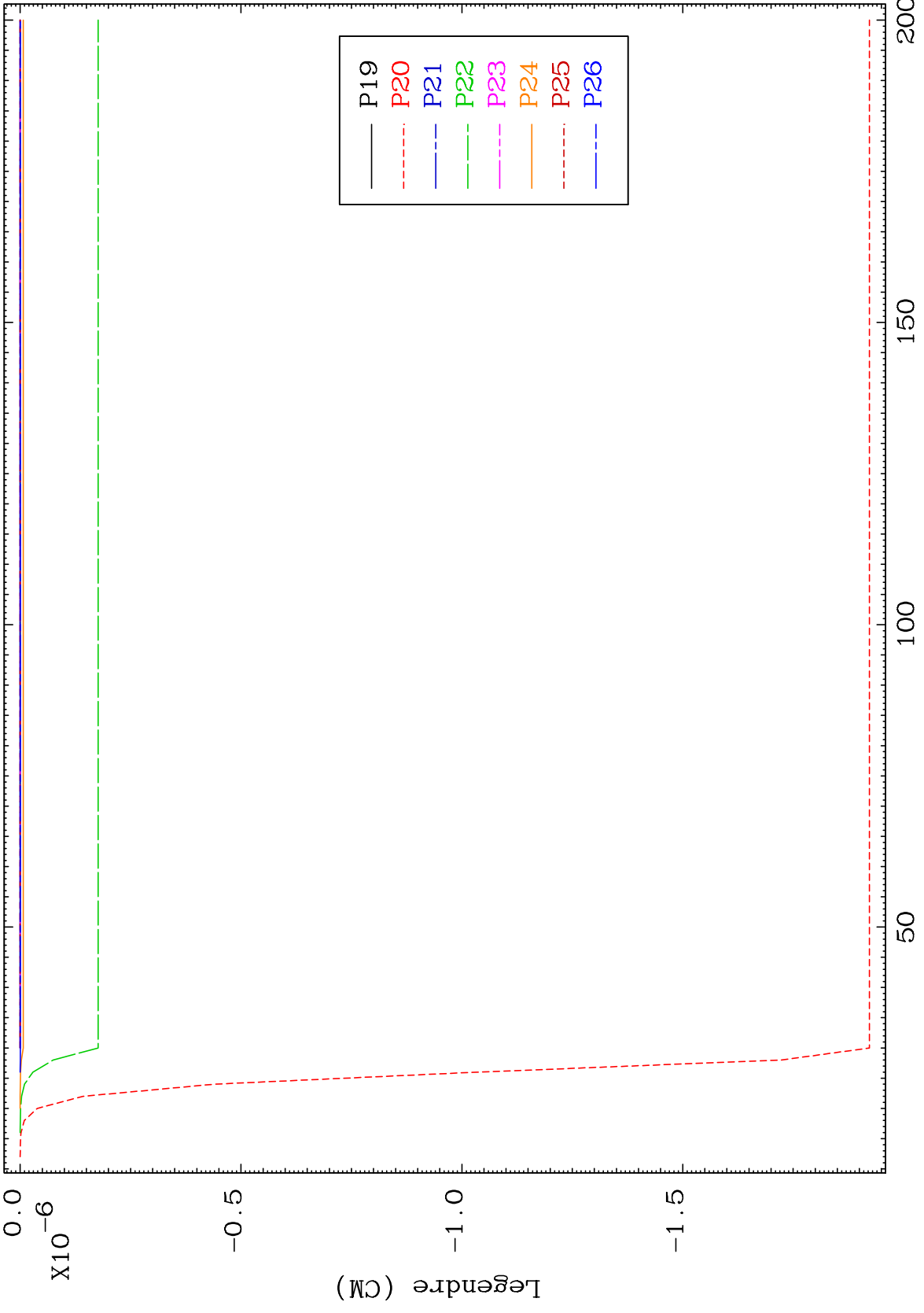
71-Lu-180



104

71-Lu-180

MAT 7140 MT= 75 (n,n') Level Legendre Coefficients 71-Lu-180

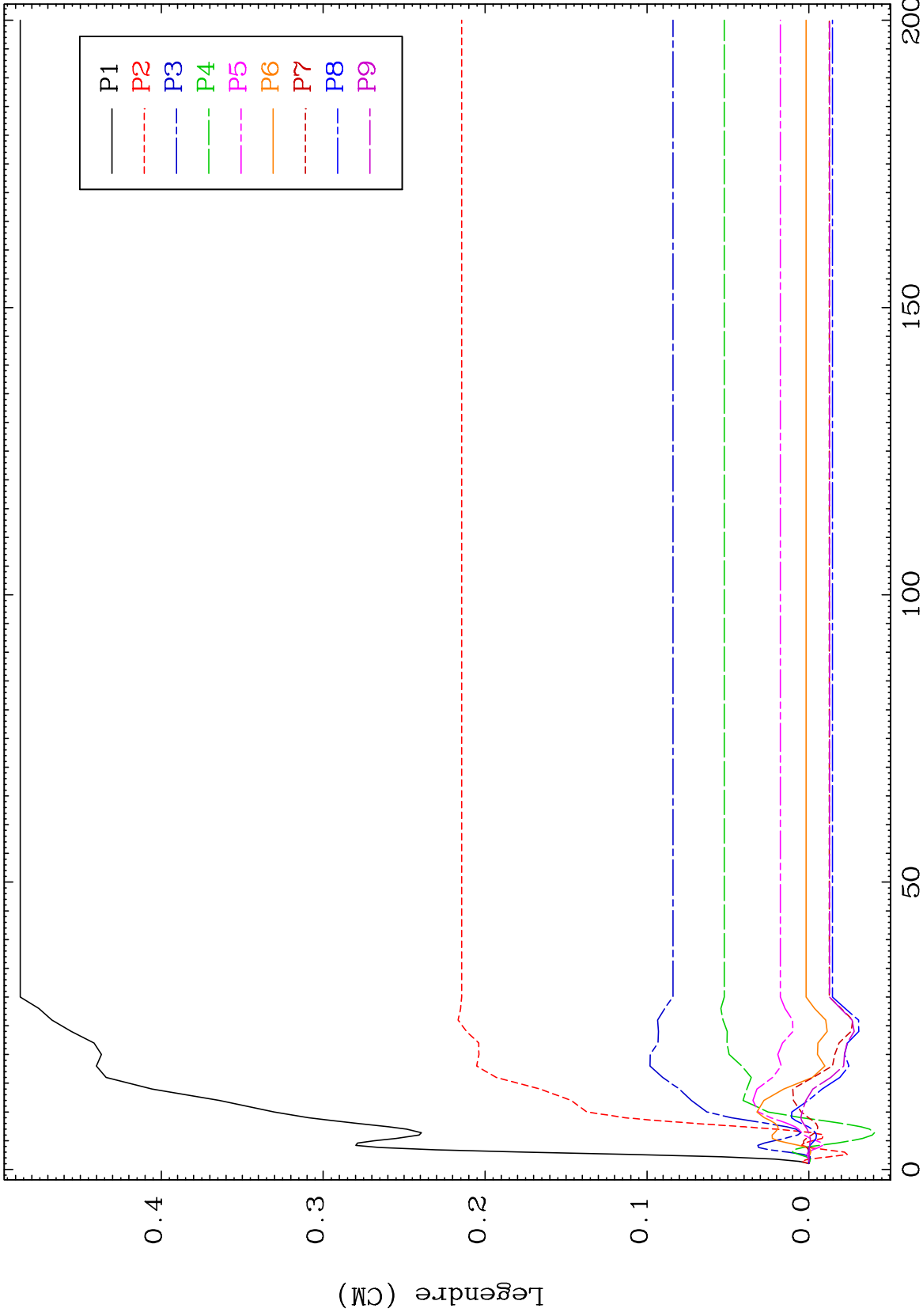


105 Incident Energy (MeV) 71-Lu-180

MAT 7140

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

71-Lu-180



106

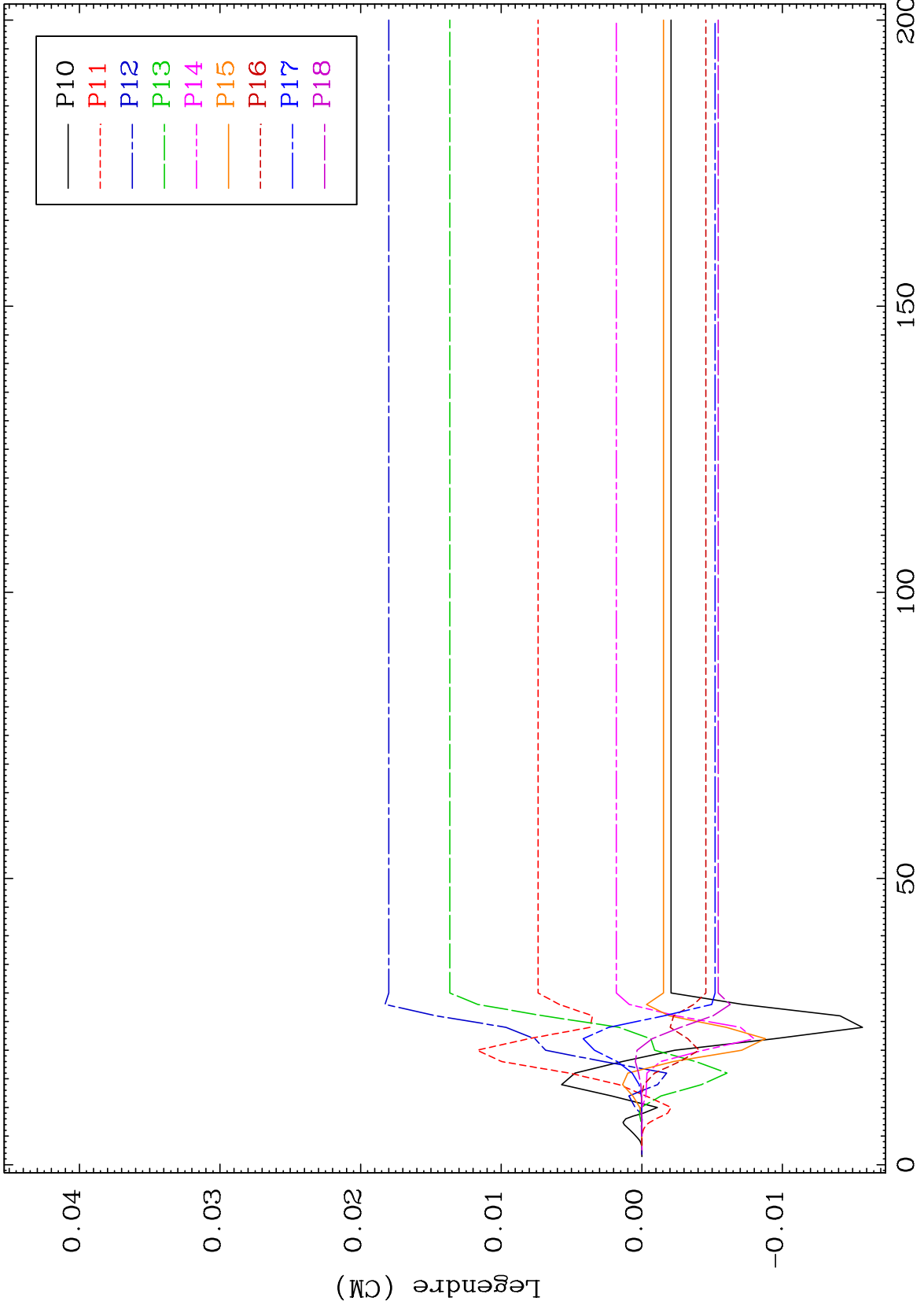
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



107

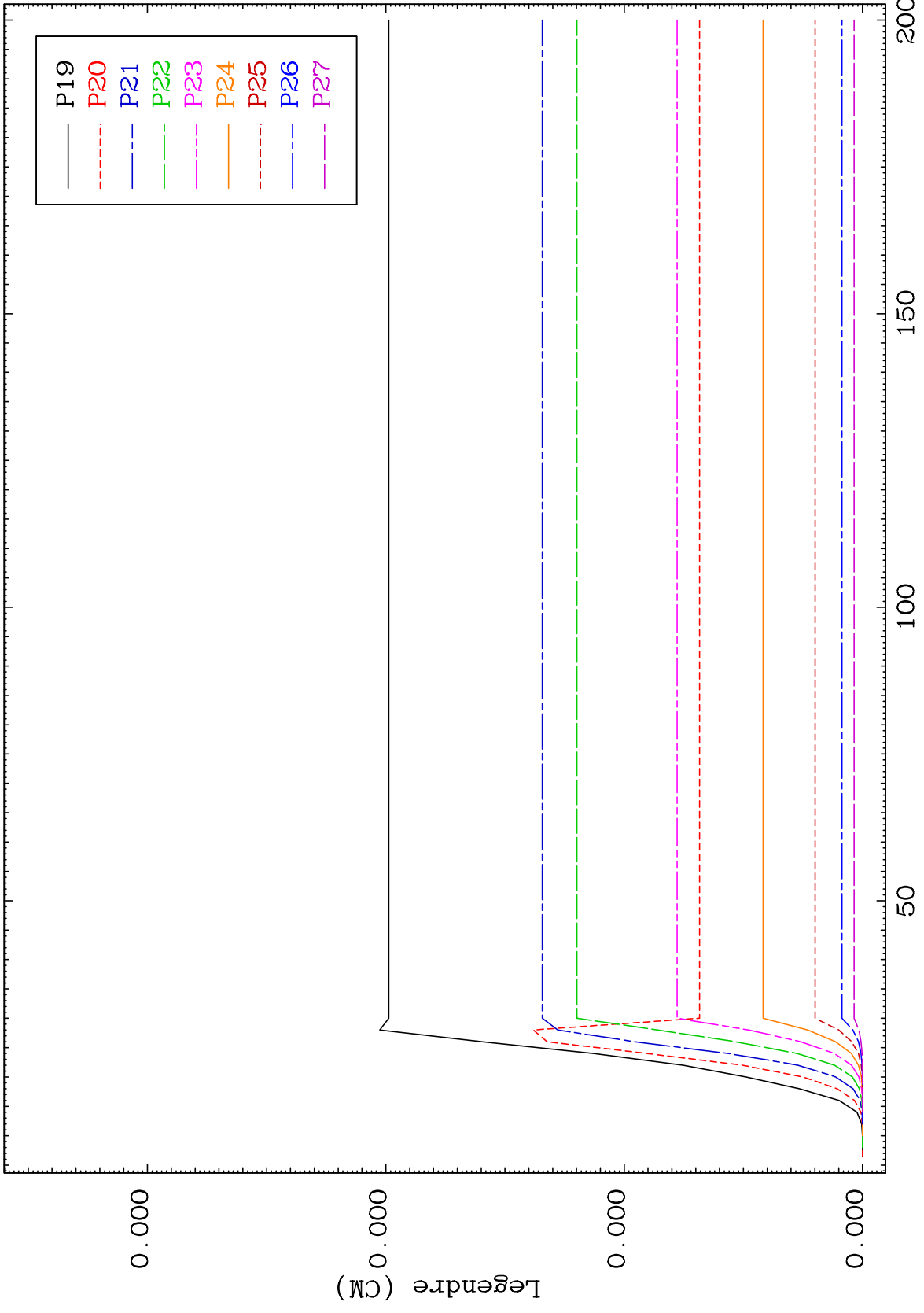
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

71-Lu-180



108

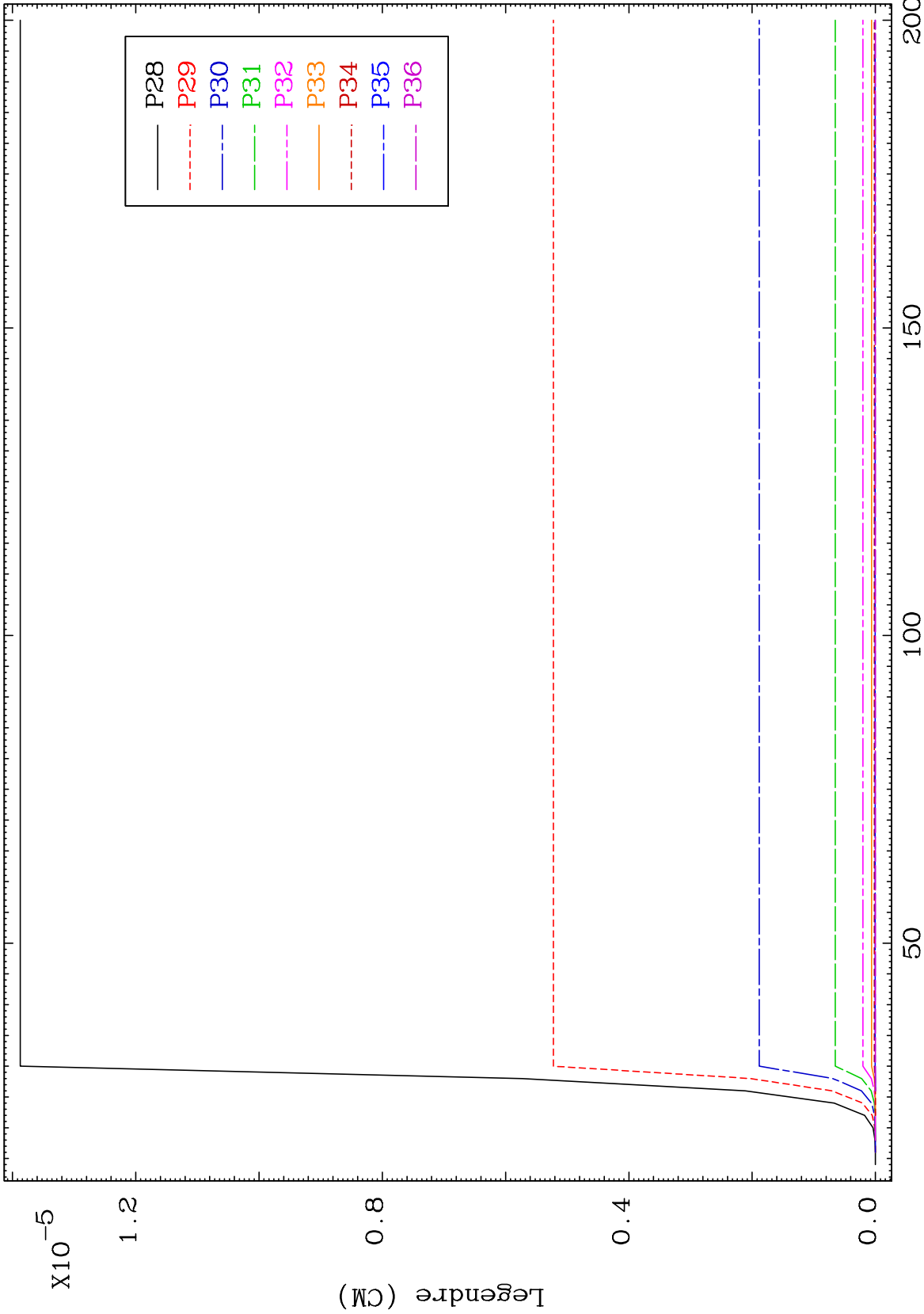
Incident Energy (MeV)

71-Lu-180

MAT 7140

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

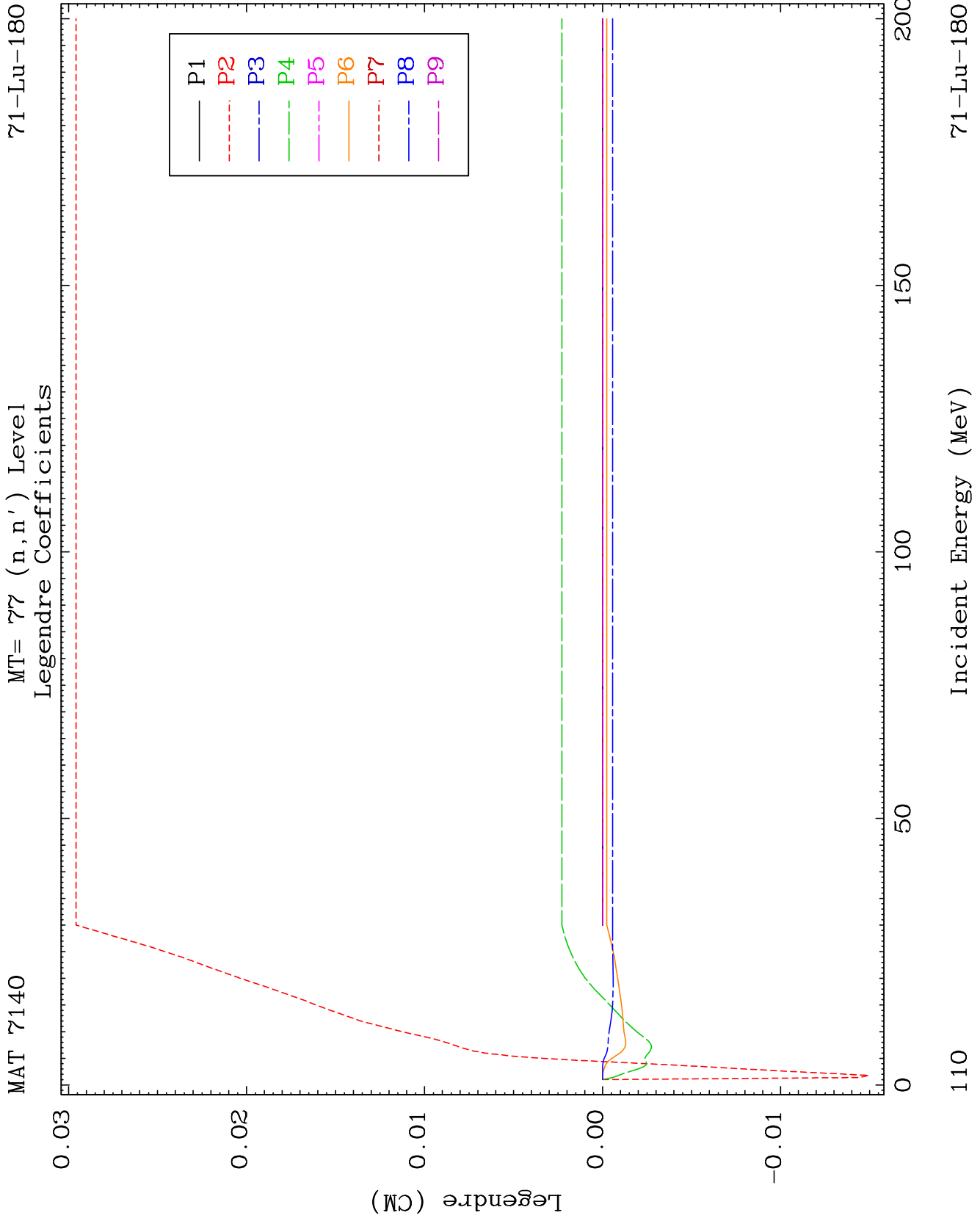
71-Lu-180



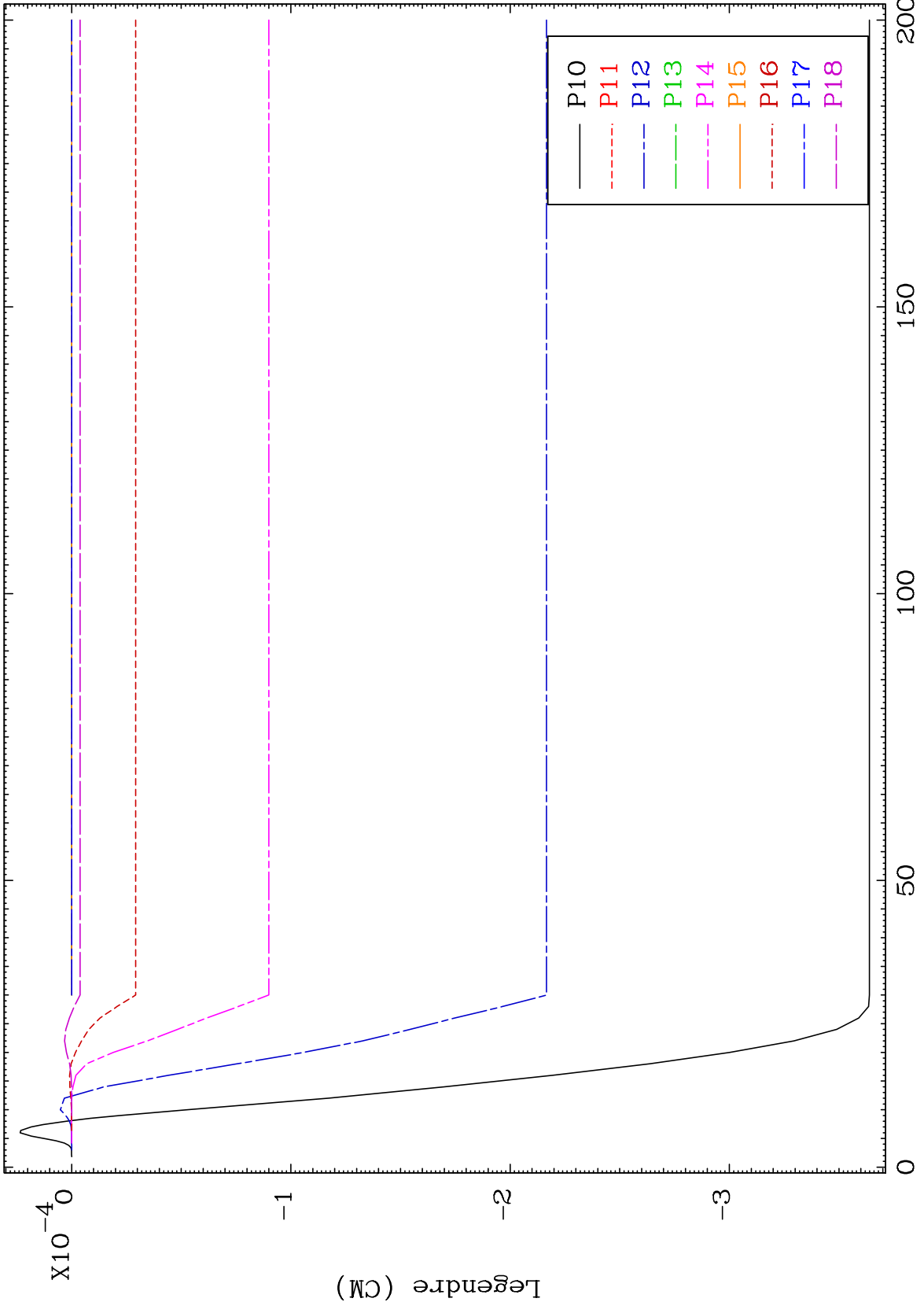
109

Incident Energy (MeV)

71-Lu-180

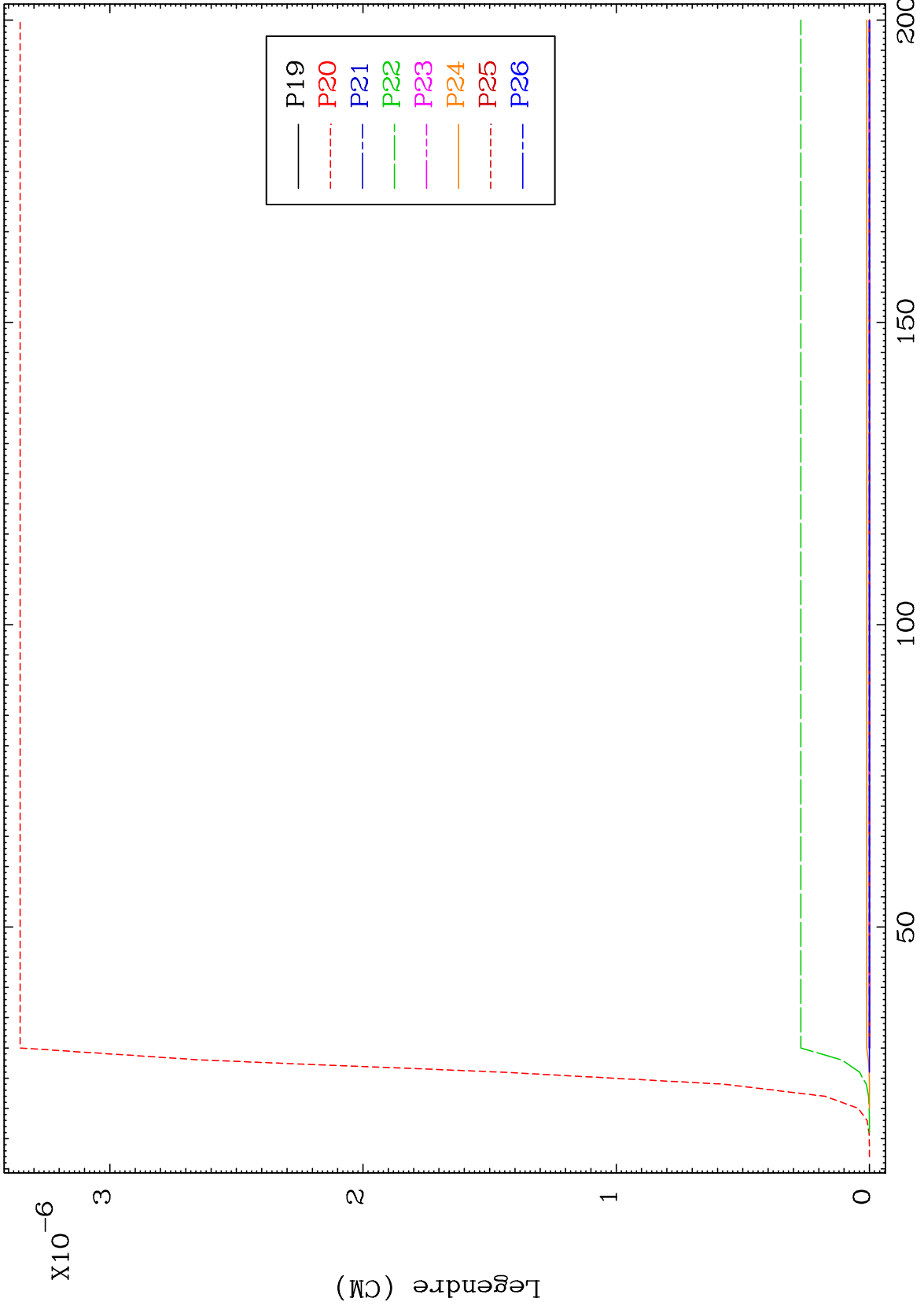


MAT 7140 MT= 77 (n,n') Level Legendre Coefficients 71-Lu-180



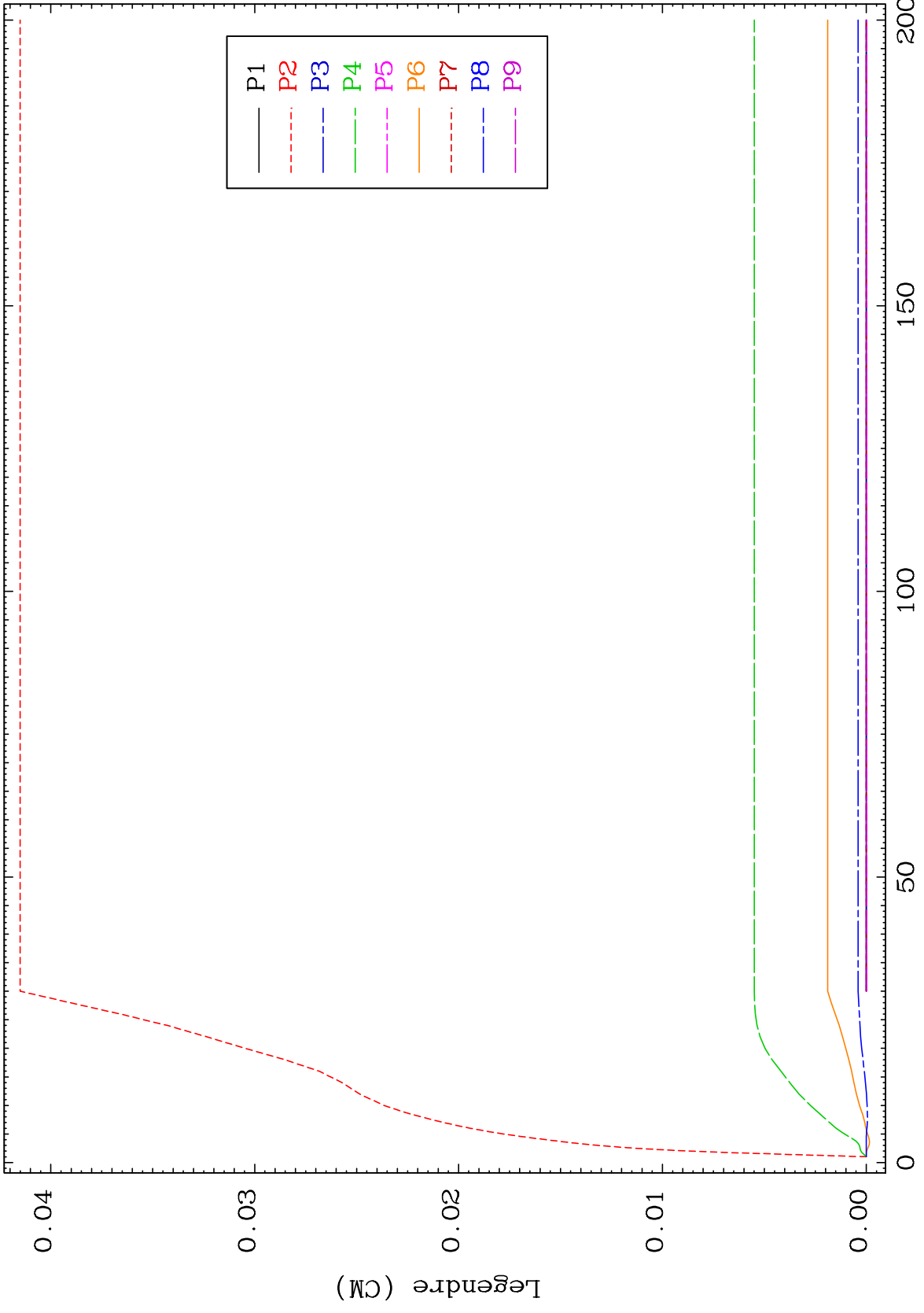
111 71-Lu-180

MAT 7140 MT= 77 (n,n') Level Legendre Coefficients 71-Lu-180



112 50 100 150 200 71-Lu-180

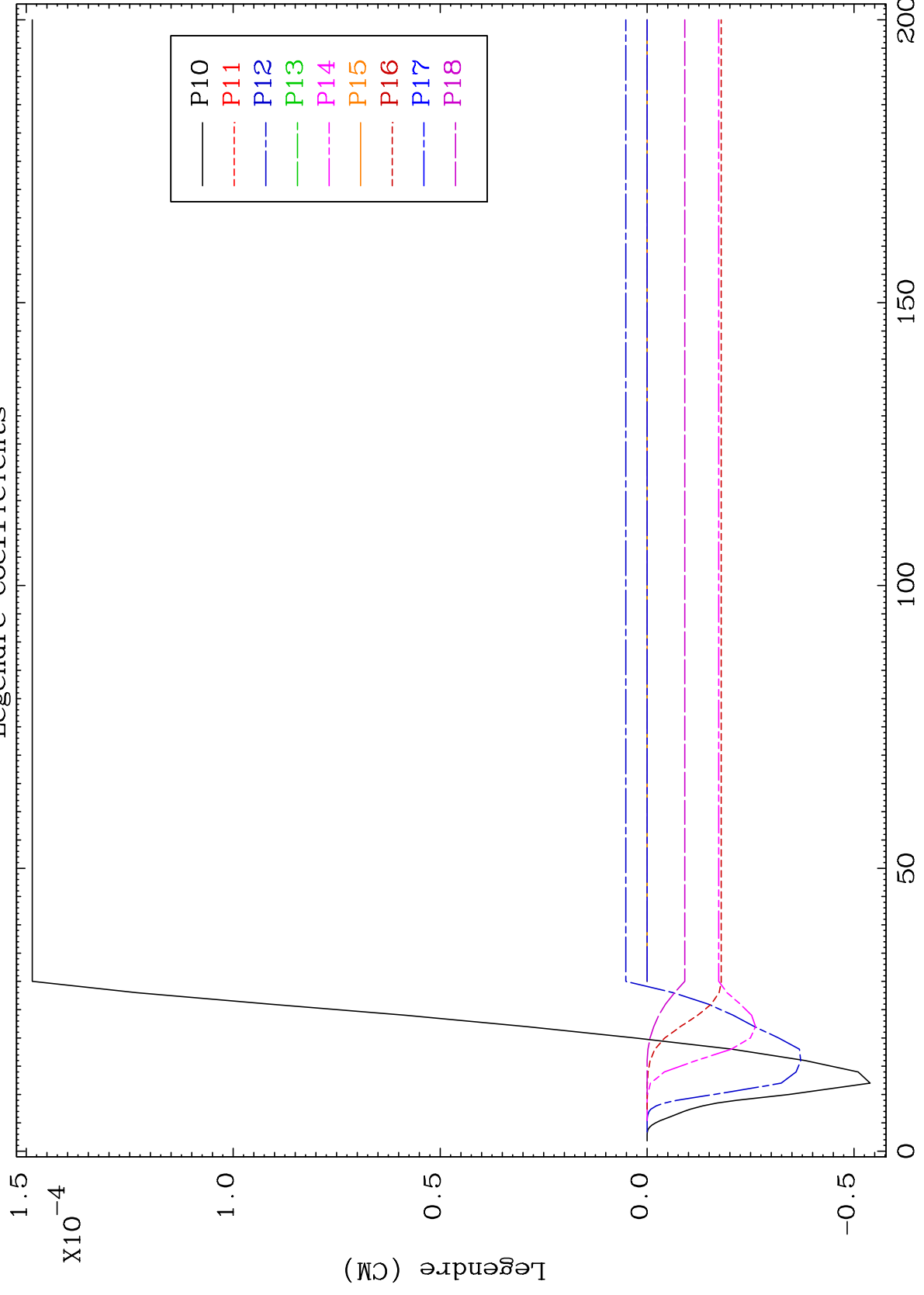
MAT 7140 MT= 78 (n,n') Level Legendre Coefficients 71-Lu-180



113 71-Lu-180

MAT 7140 MT= 78 (n,n') Level Legendre Coefficients

71-Lu-180

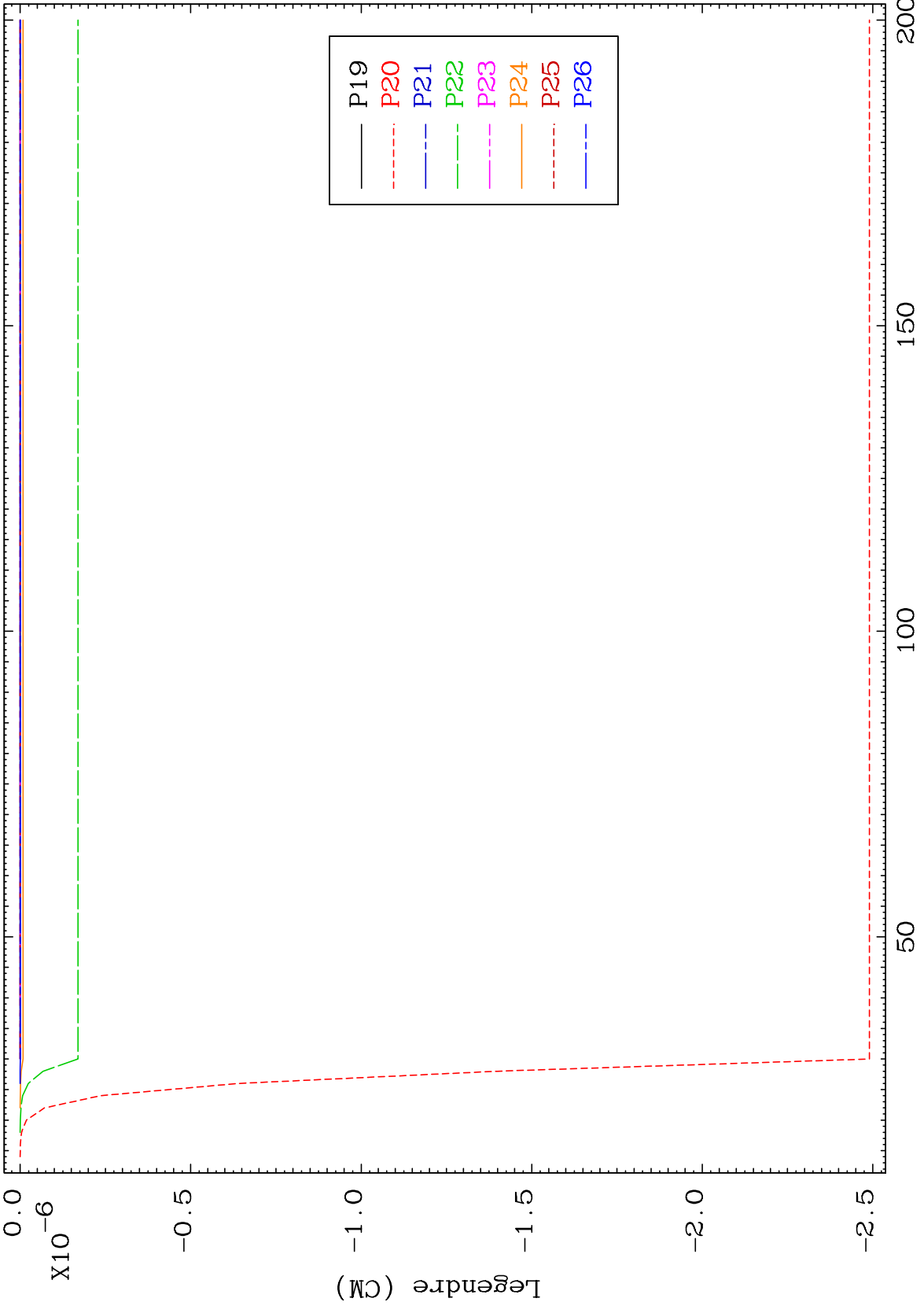


114

Incident Energy (MeV)

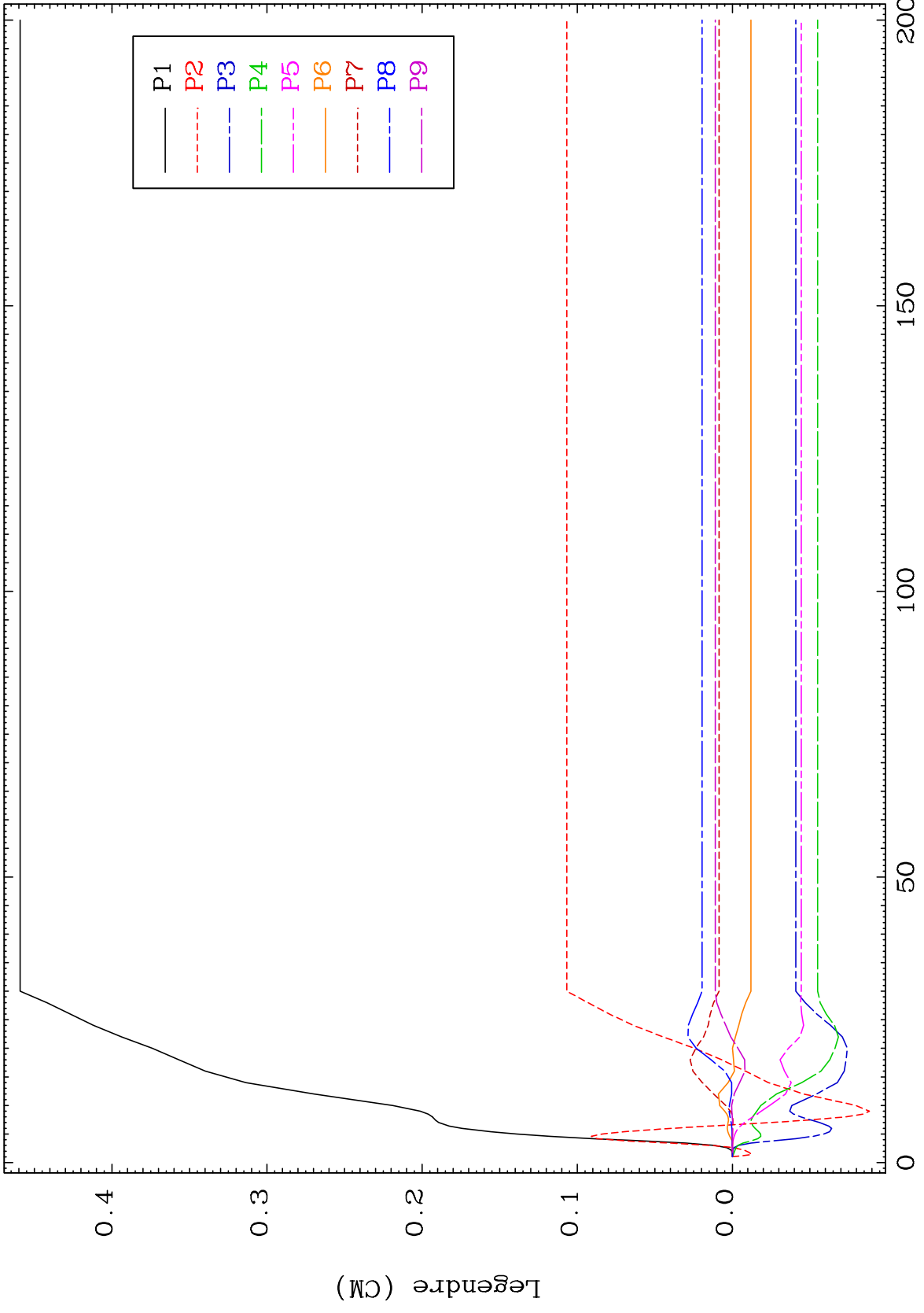
71-Lu-180

MAT 7140 MT= 78 (n,n') Level Legendre Coefficients 71-Lu-180



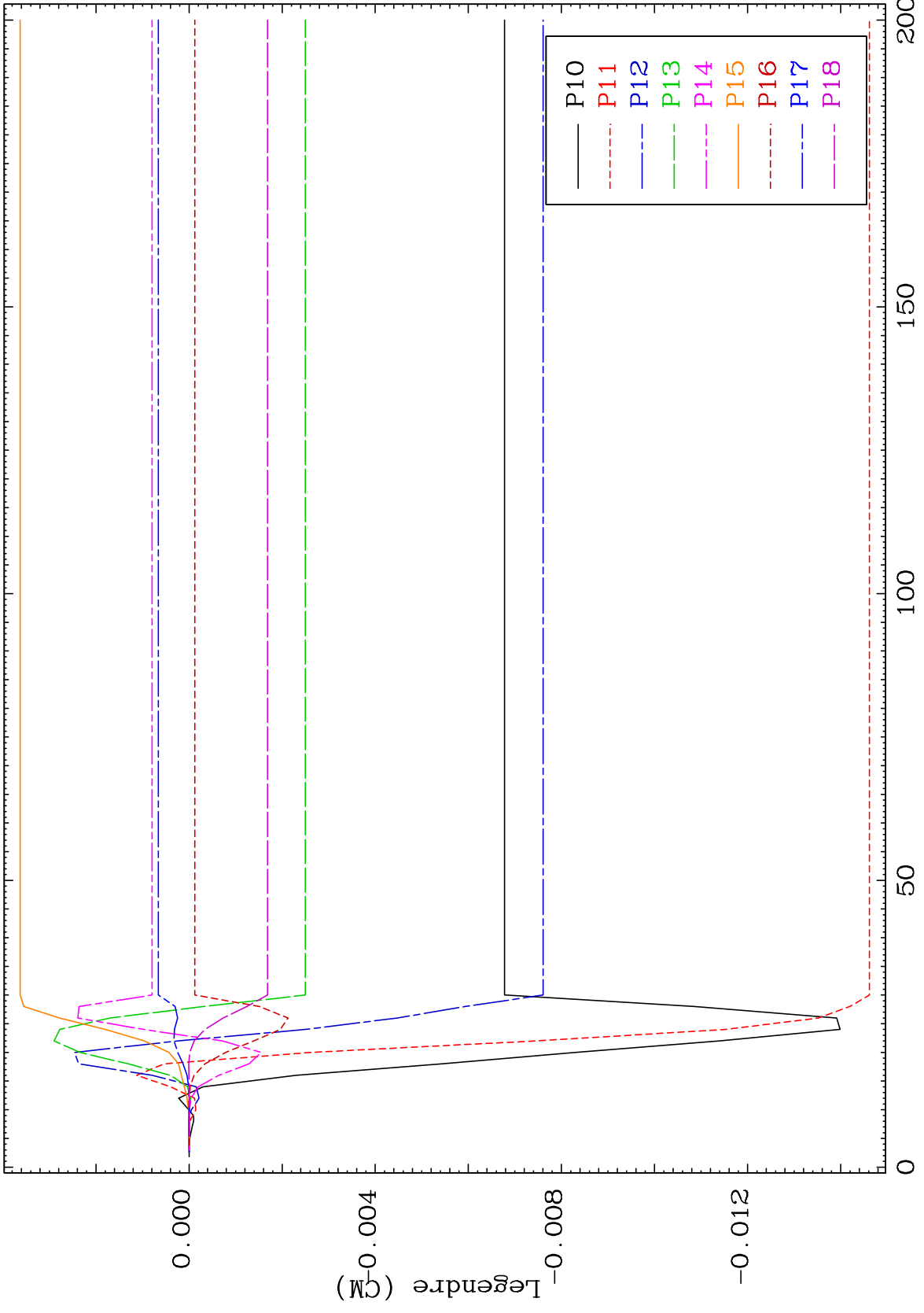
115 71-Lu-180

MAT 7140 MT= 79 (n,n') Level Legendre Coefficients 71-Lu-180

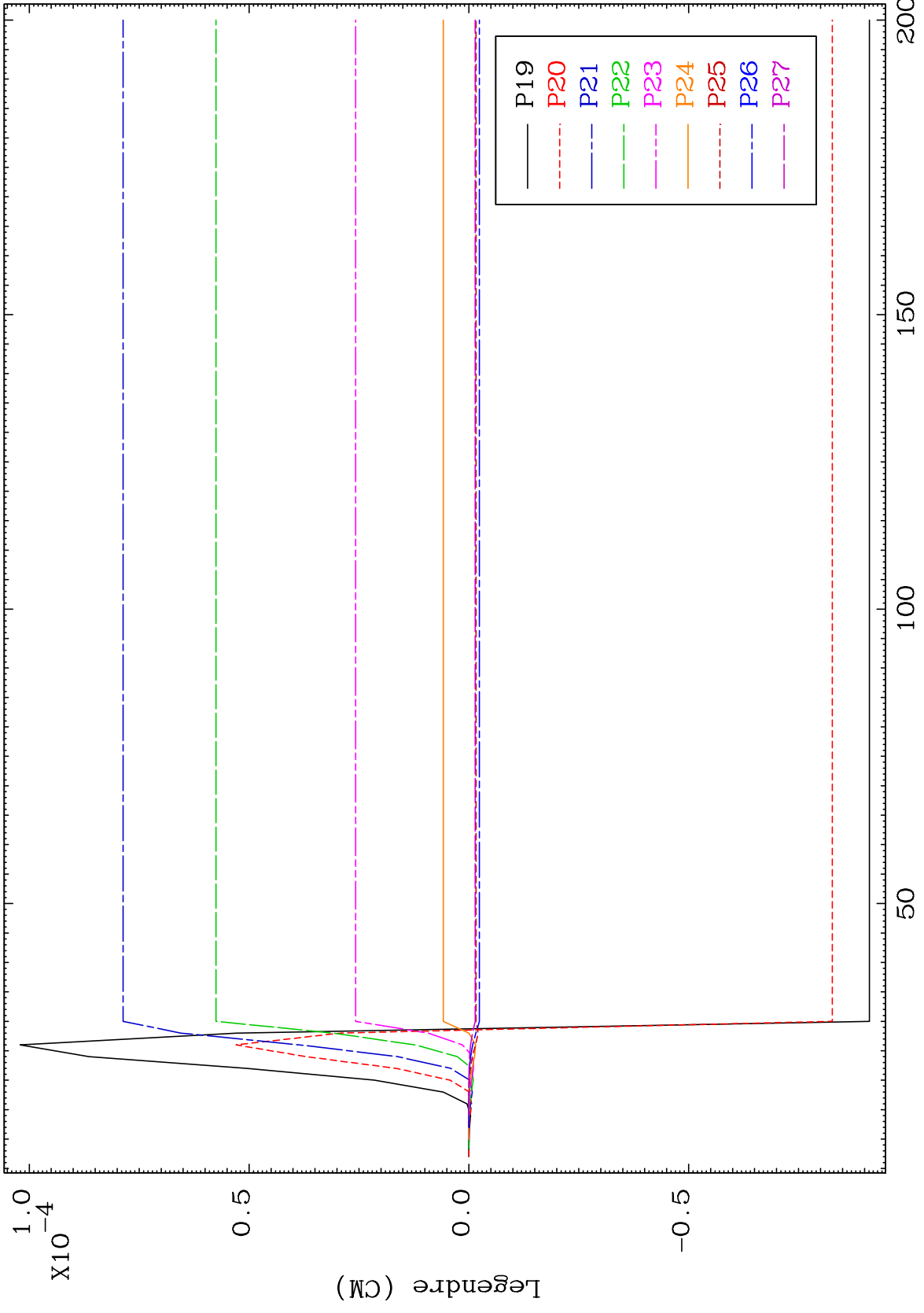


116 71-Lu-180

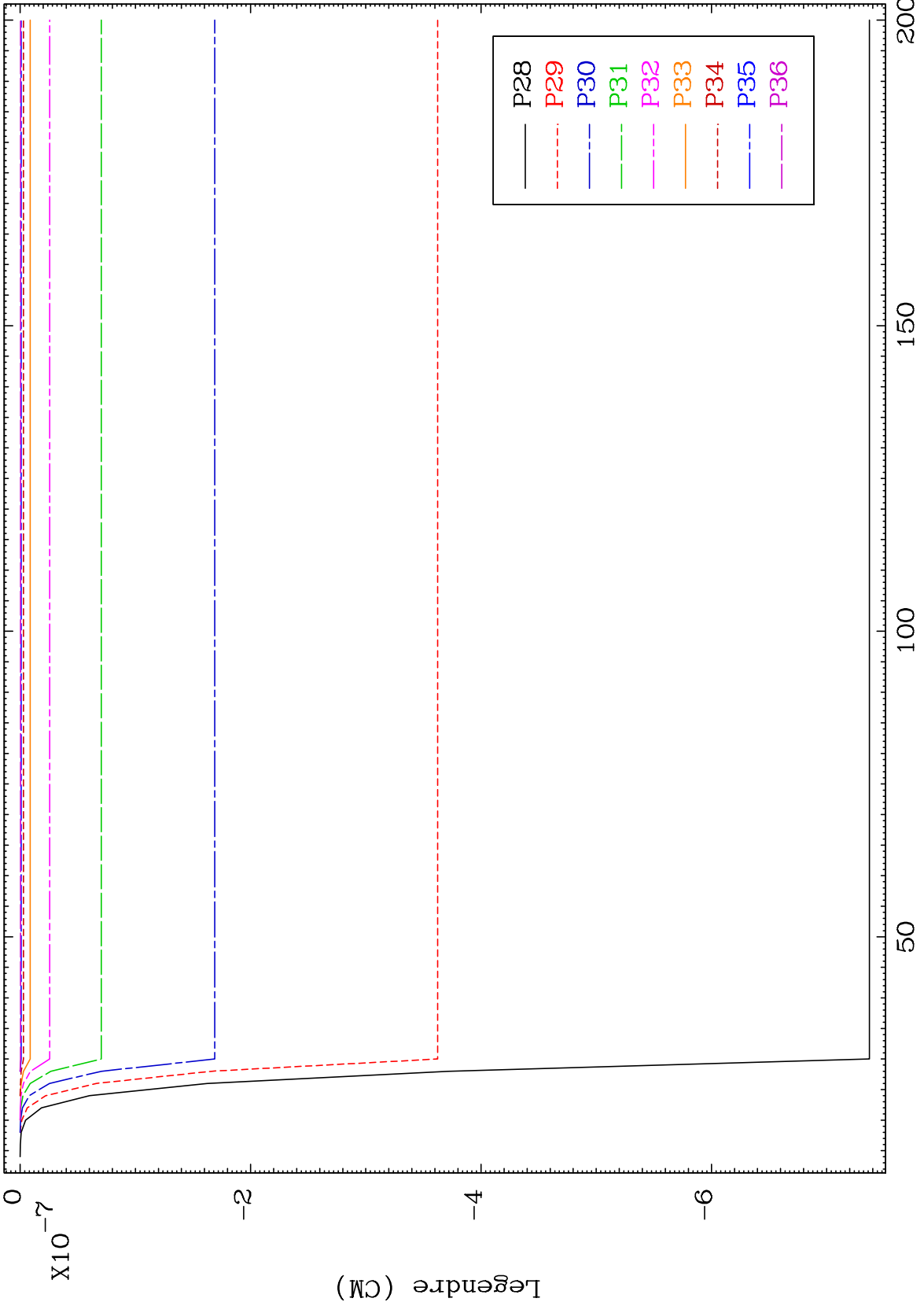
MAT 7140 MT= 79 (n,n') Level Legendre Coefficients 71-Lu-180



117 71-Lu-180



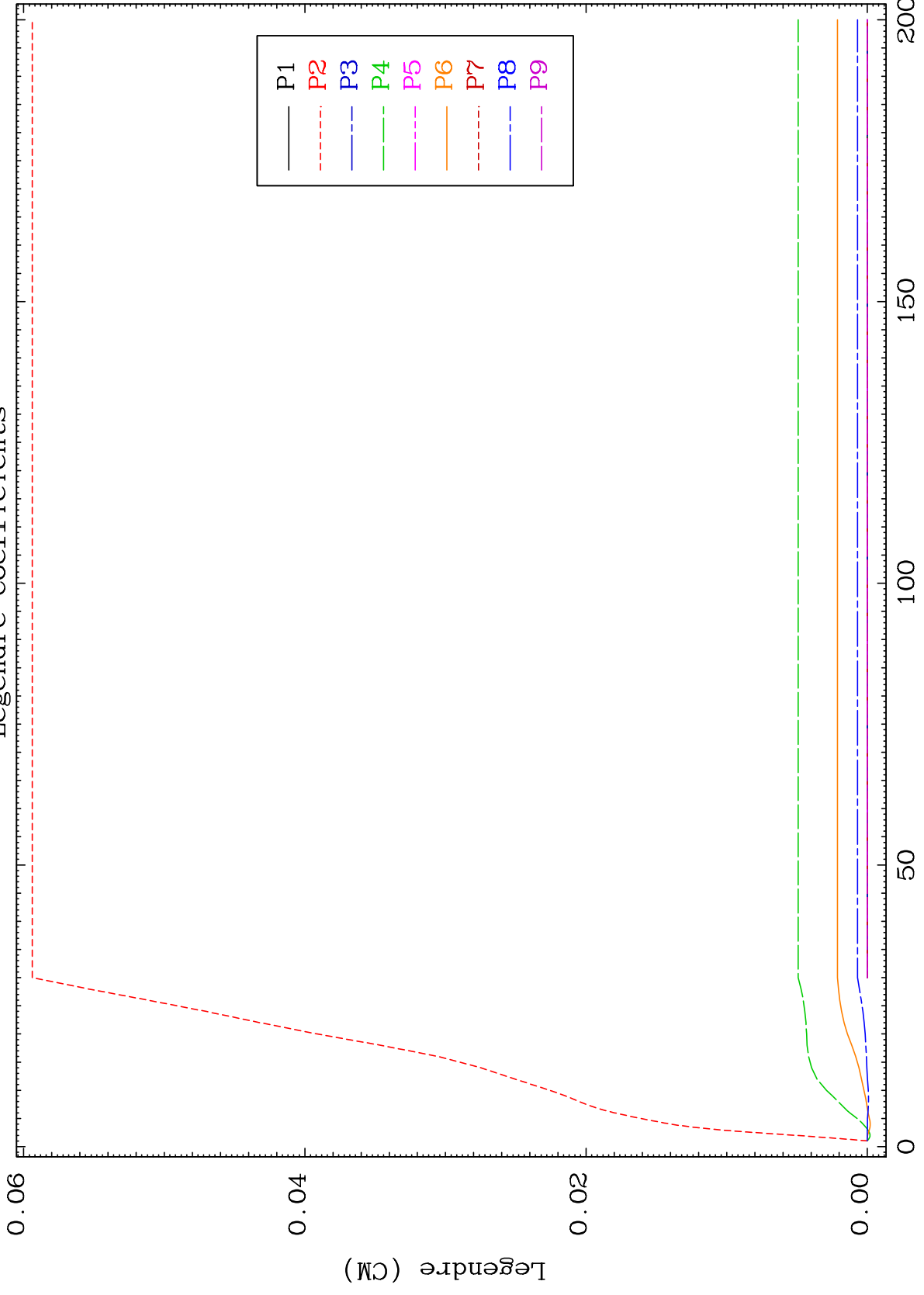
MAT 7140 MT= 79 (n,n') Level Legendre Coefficients 71-Lu-180



119 71-Lu-180

MAT 7140 MT= 80 (n,n') Level Legendre Coefficients

71-Lu-180



71-Lu-180

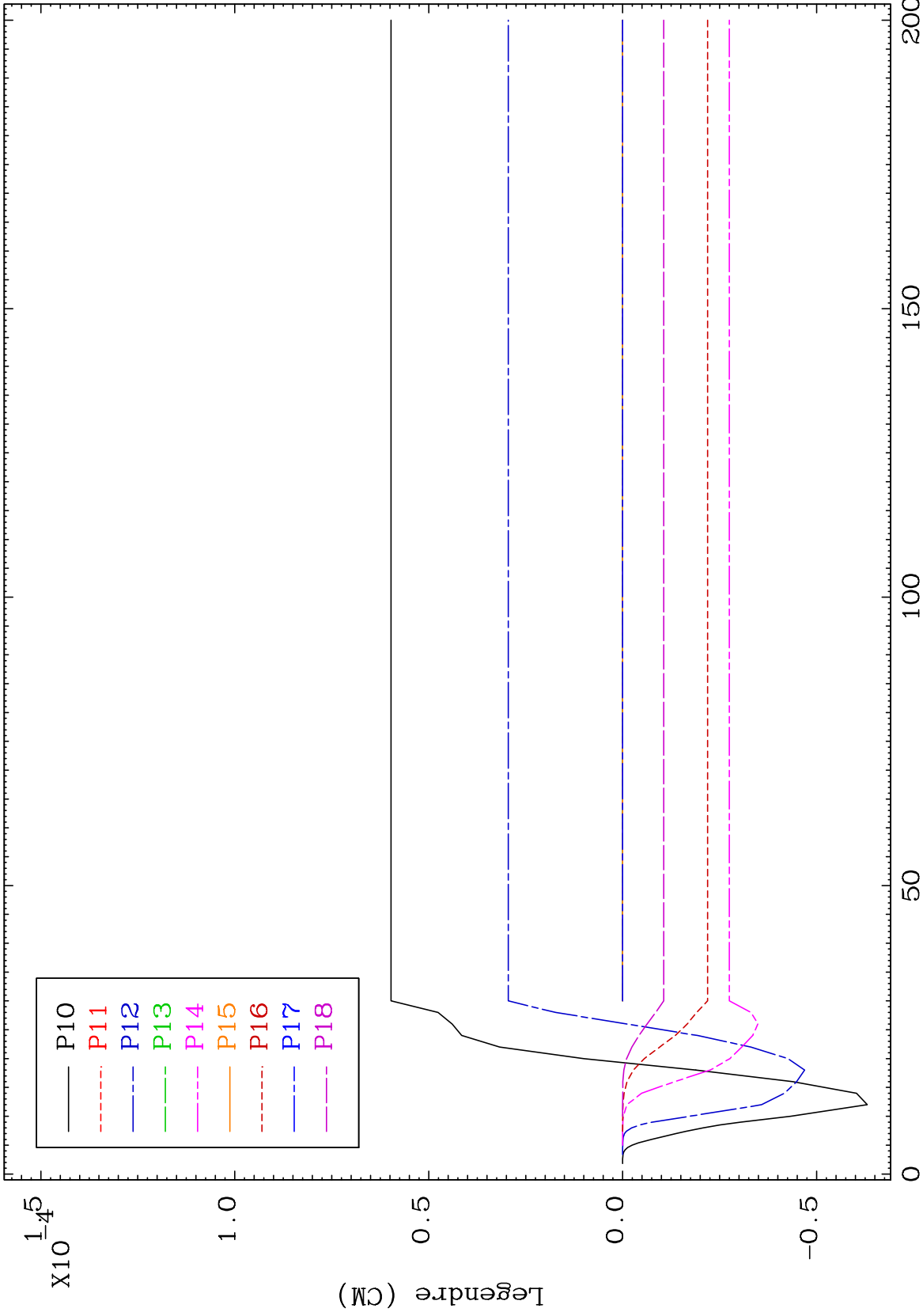
Incident Energy (MeV)

120

MAT 7140

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

71-Lu-180

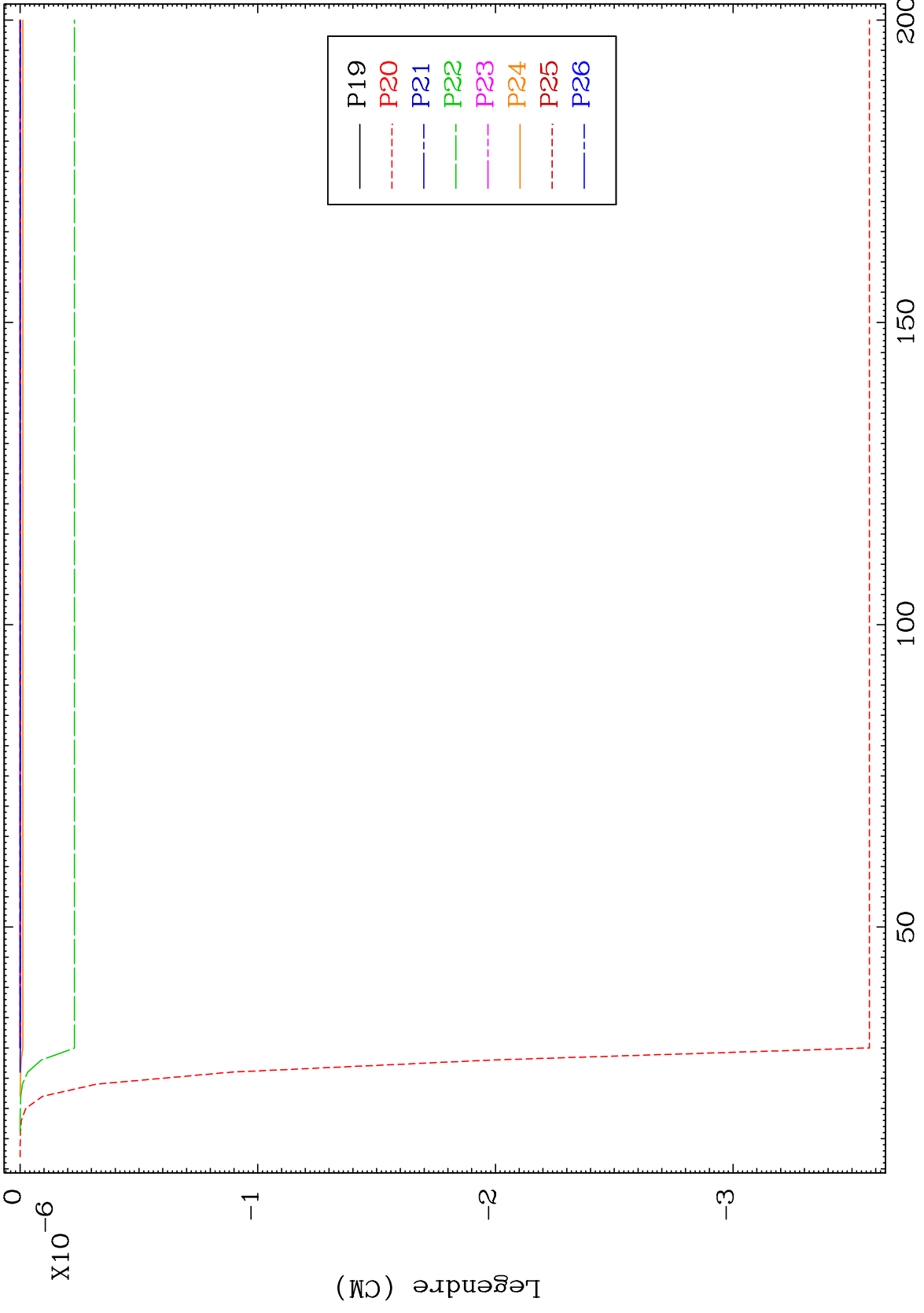


121

Incident Energy (MeV)

71-Lu-180

MAT 7140 MT= 80 (n,n') Level Legendre Coefficients 71-Lu-180



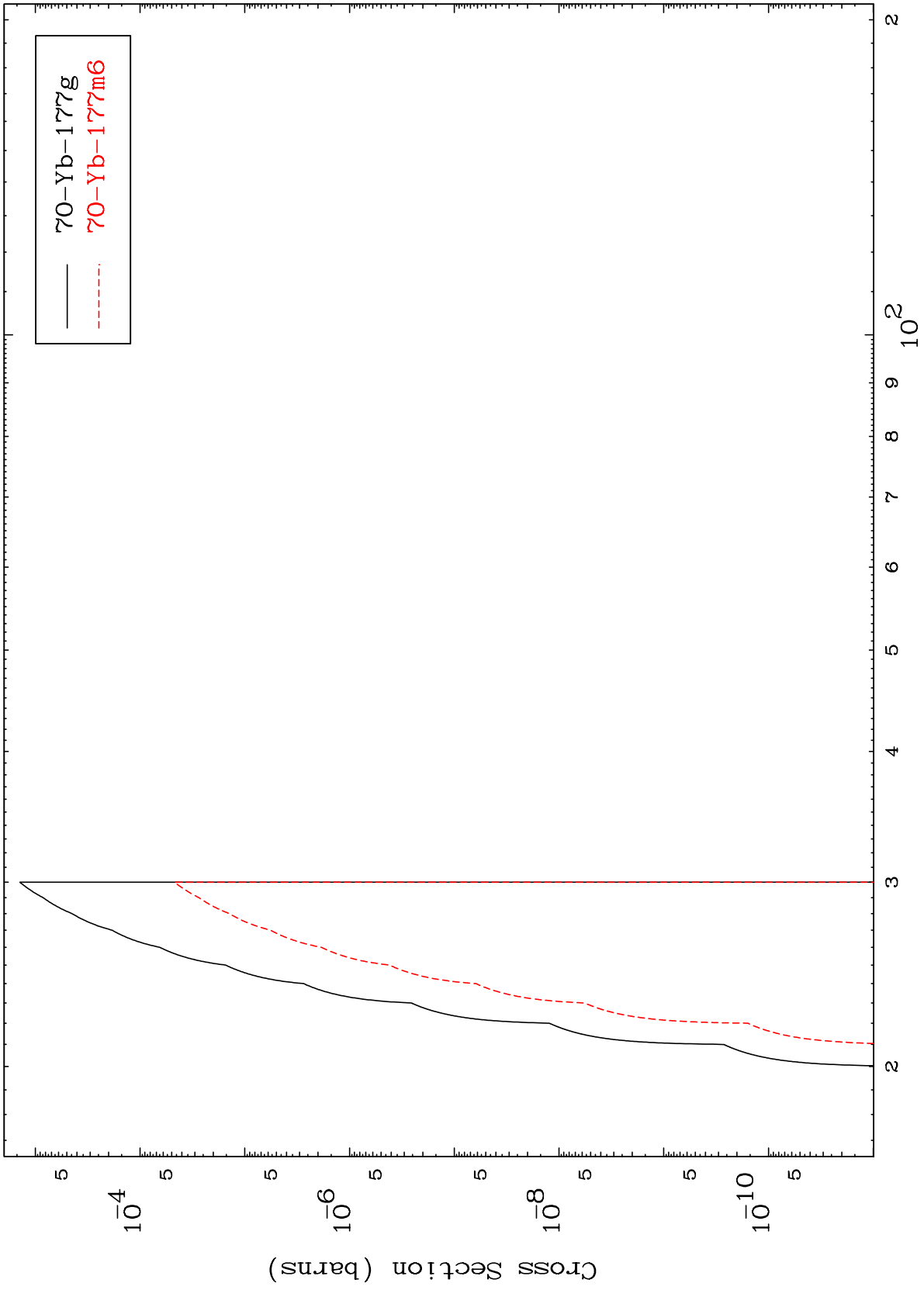
122 Incident Energy (MeV) 71-Lu-180

MAT 7140

(n,2n) d

71-Lu-180

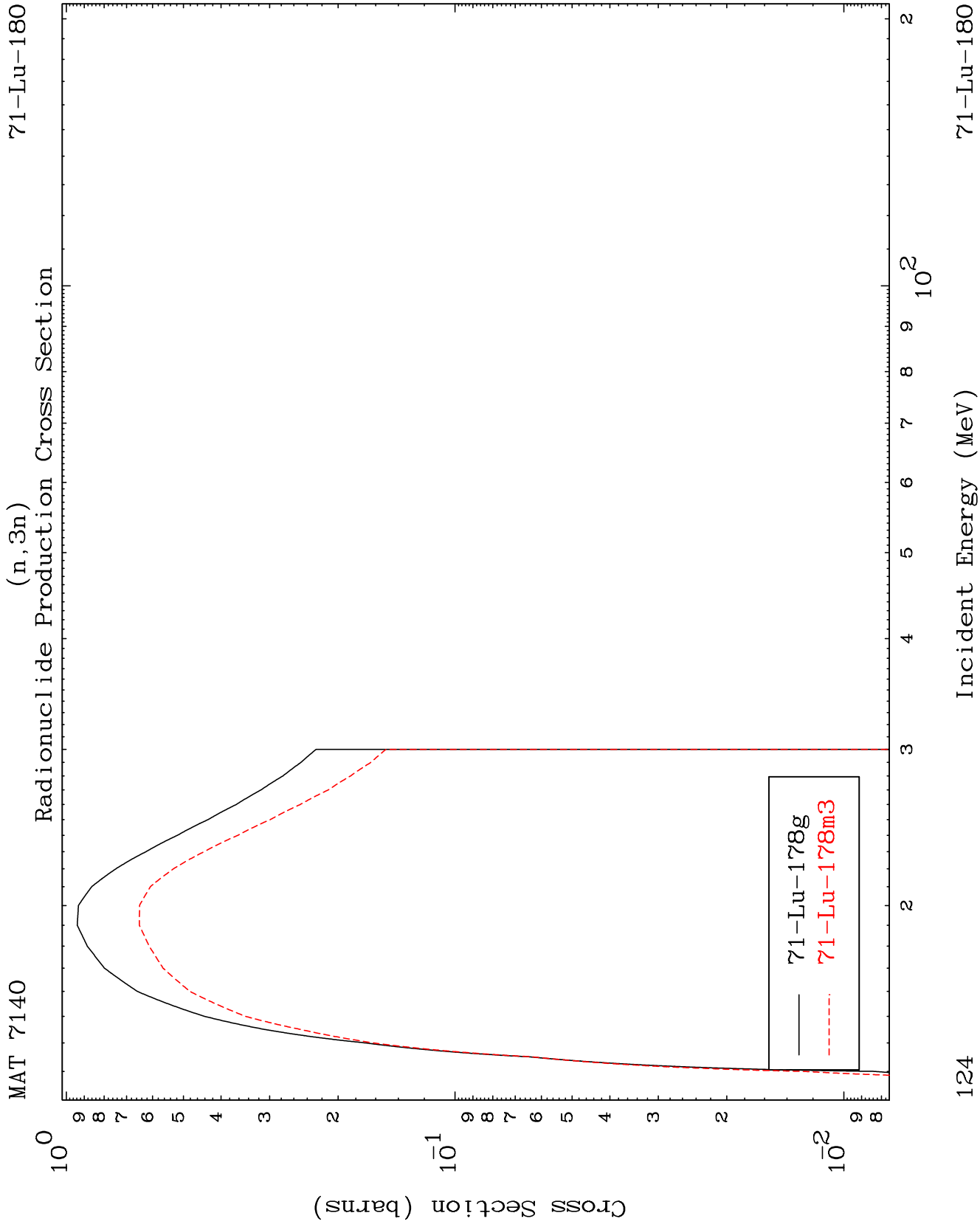
Radionuclide Production Cross Section



123

Incident Energy (MeV)

71-Lu-180

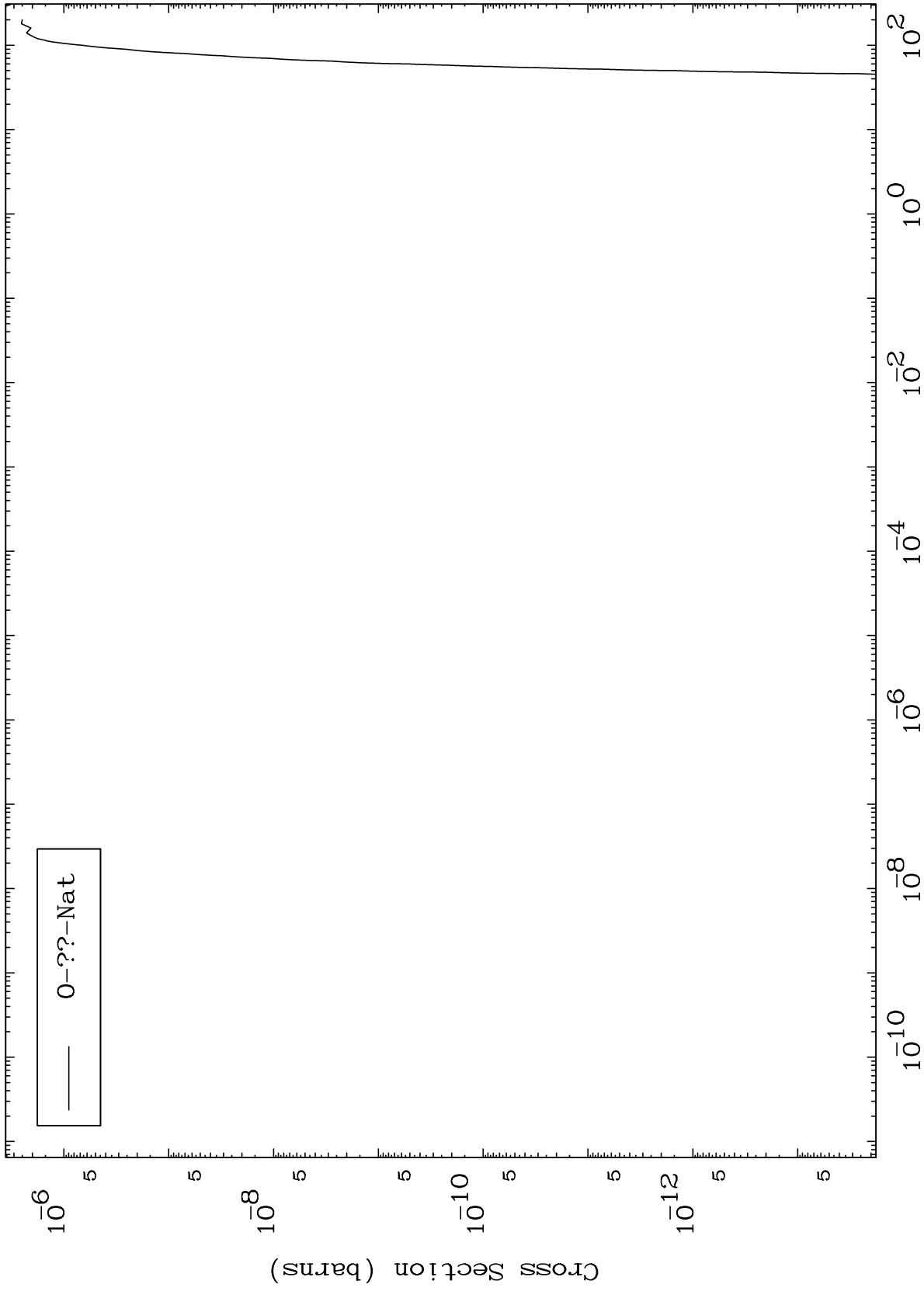


MAT 7140

Fission

⁷¹Lu-180

Radionuclide Production Cross Section



125

Incident Energy (MeV)

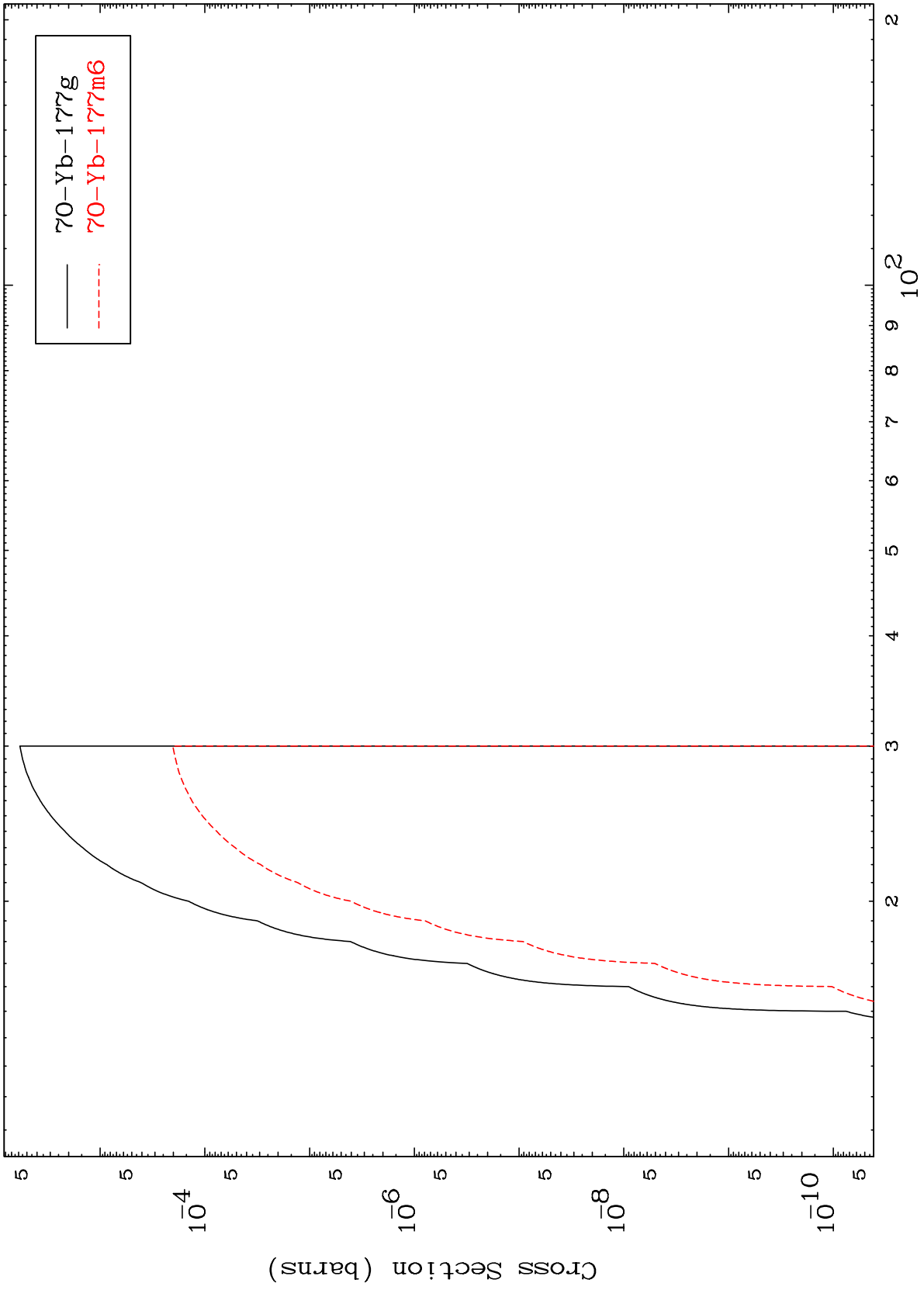
⁷¹Lu-180

MAT 7140

(n,n') t

71-Lu-180

Radionuclide Production Cross Section



126

Incident Energy (MeV)

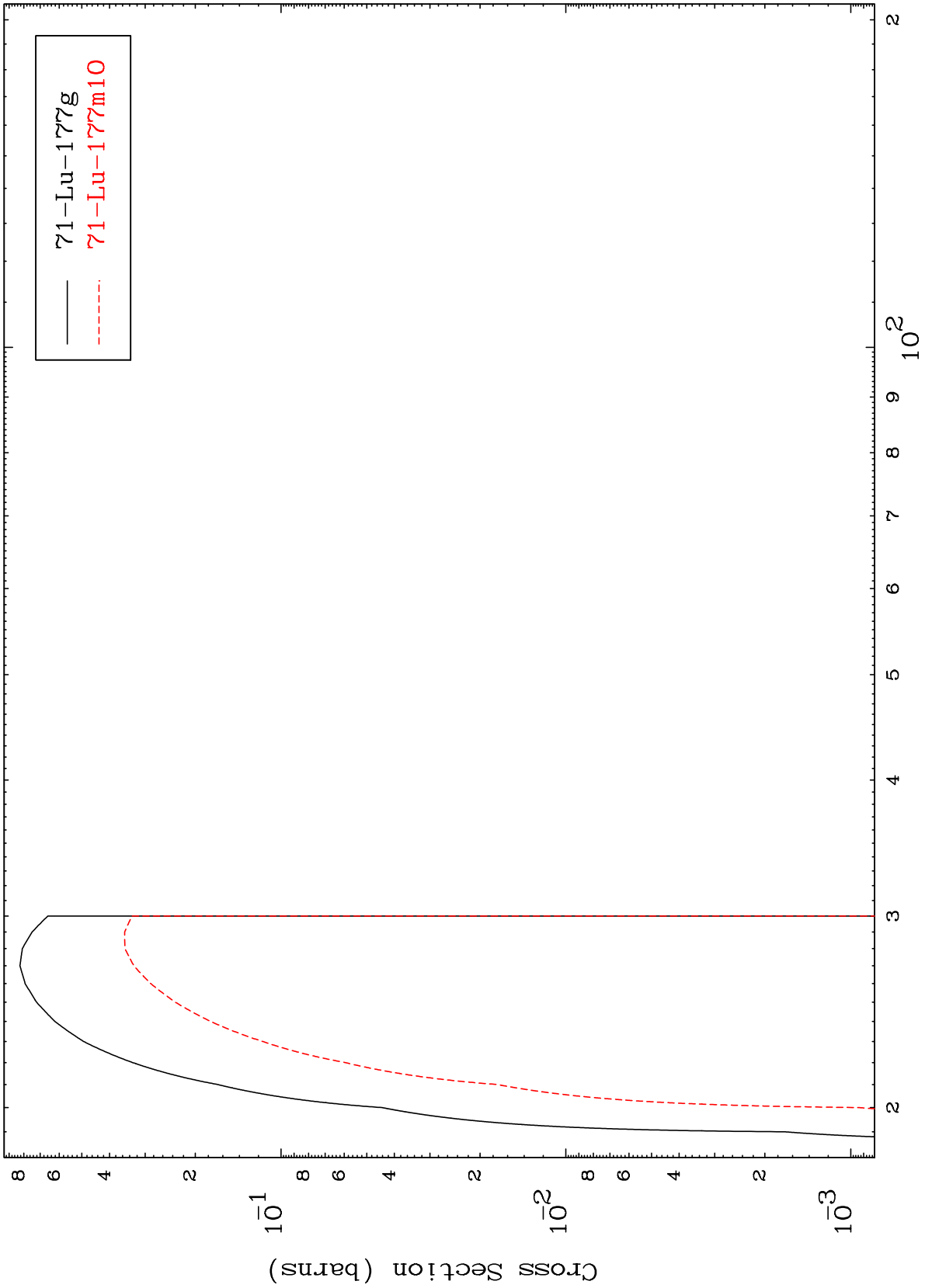
71-Lu-180

MAT 7140

(n,4n)

⁷¹Lu-180

Radionuclide Production Cross Section



127

Incident Energy (MeV)

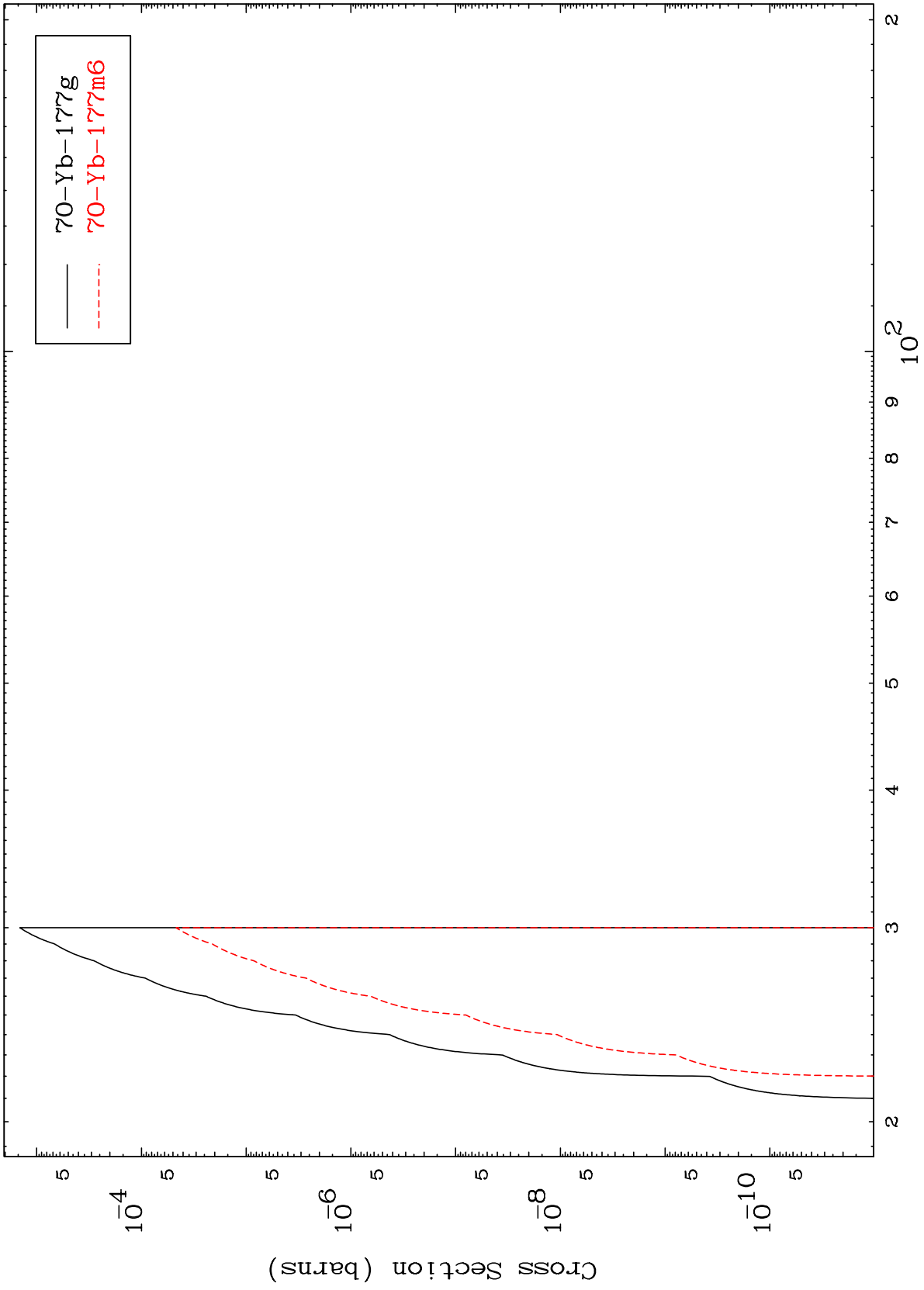
⁷¹Lu-180

MAT 7140

(n,3n) p

71-Lu-180

Radionuclide Production Cross Section



128

Incident Energy (MeV)

71-Lu-180