

Program EVALPLOT
(Version 2018-1)

by

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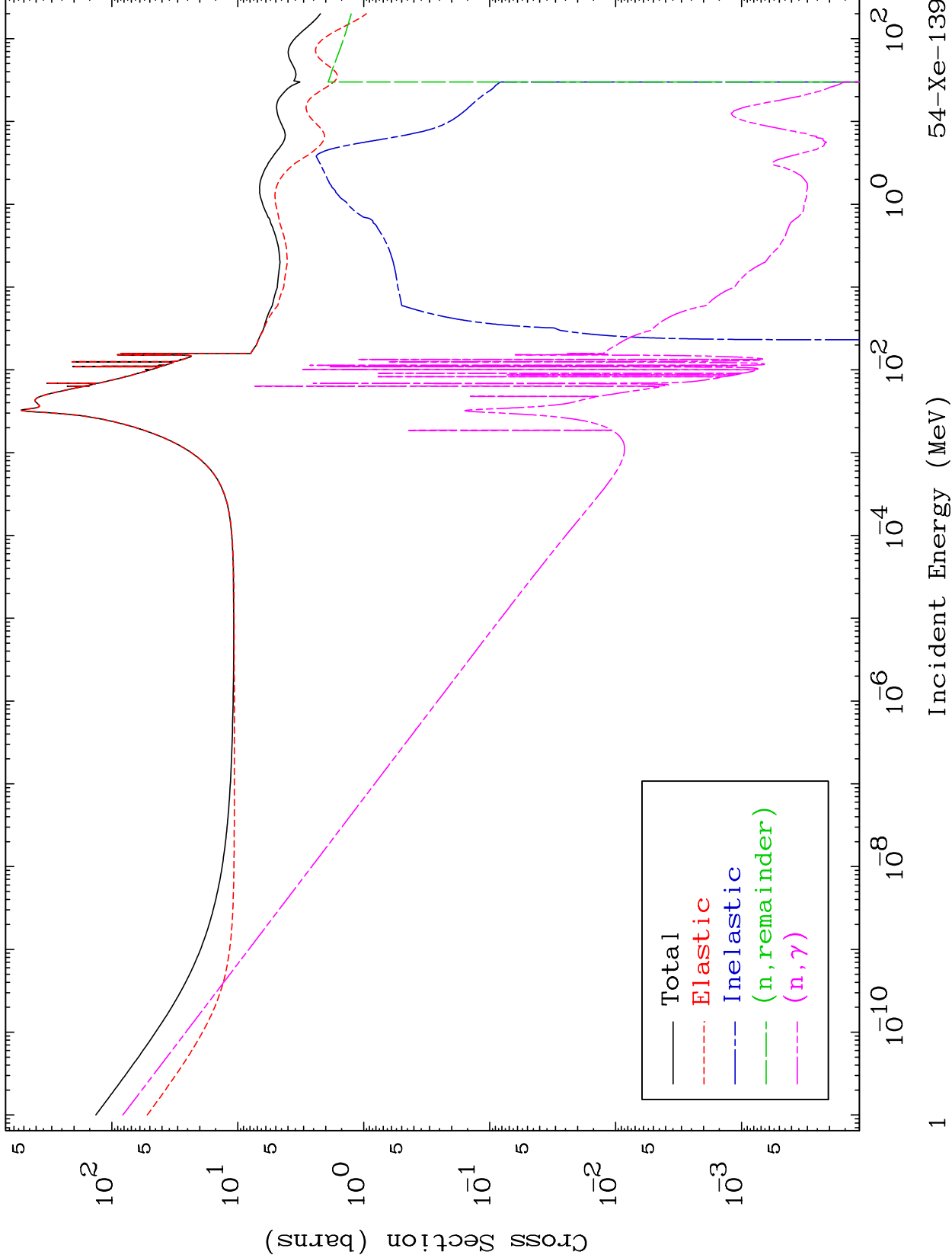
Press Mouse Button to Start

MAT 5470

Major

293 Kelvin Cross Sections

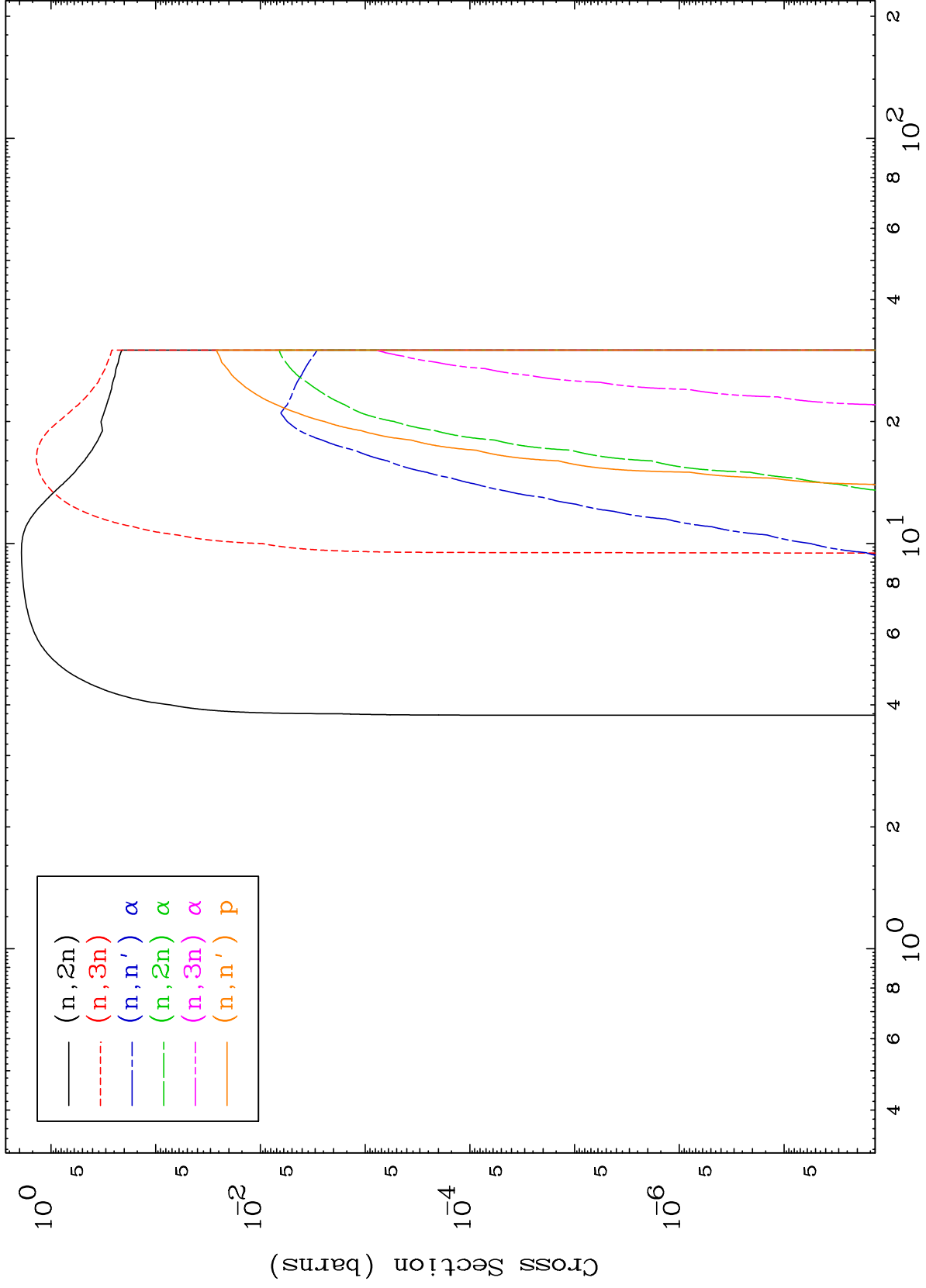
54-Xe-139



MAT 5470

Neutron Production
293 Kelvin Cross Sections

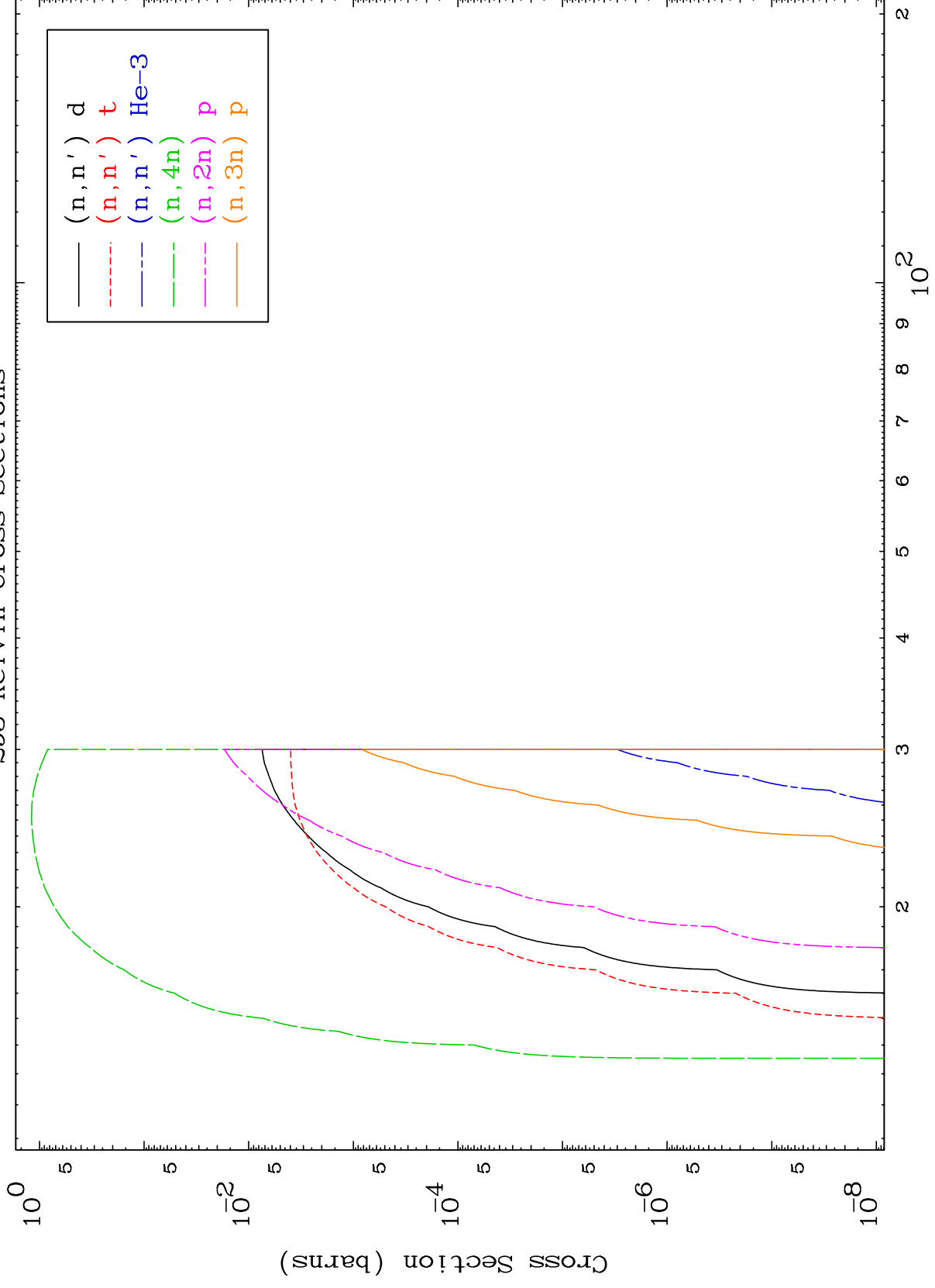
54-Xe-139



2

Incident Energy (MeV)

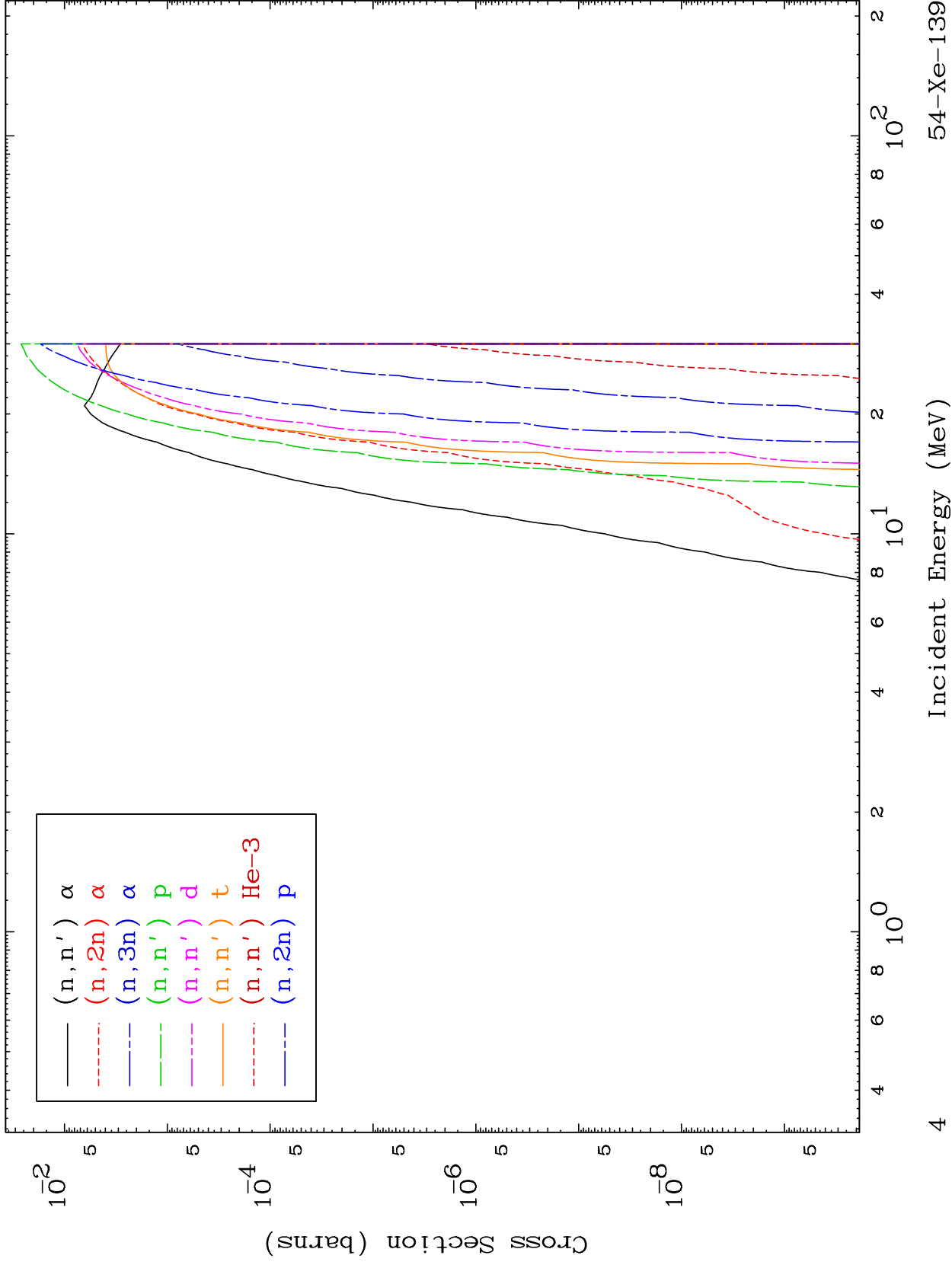
54-Xe-139



MAT 5470

Charged Particle
293 Kelvin Cross Sections

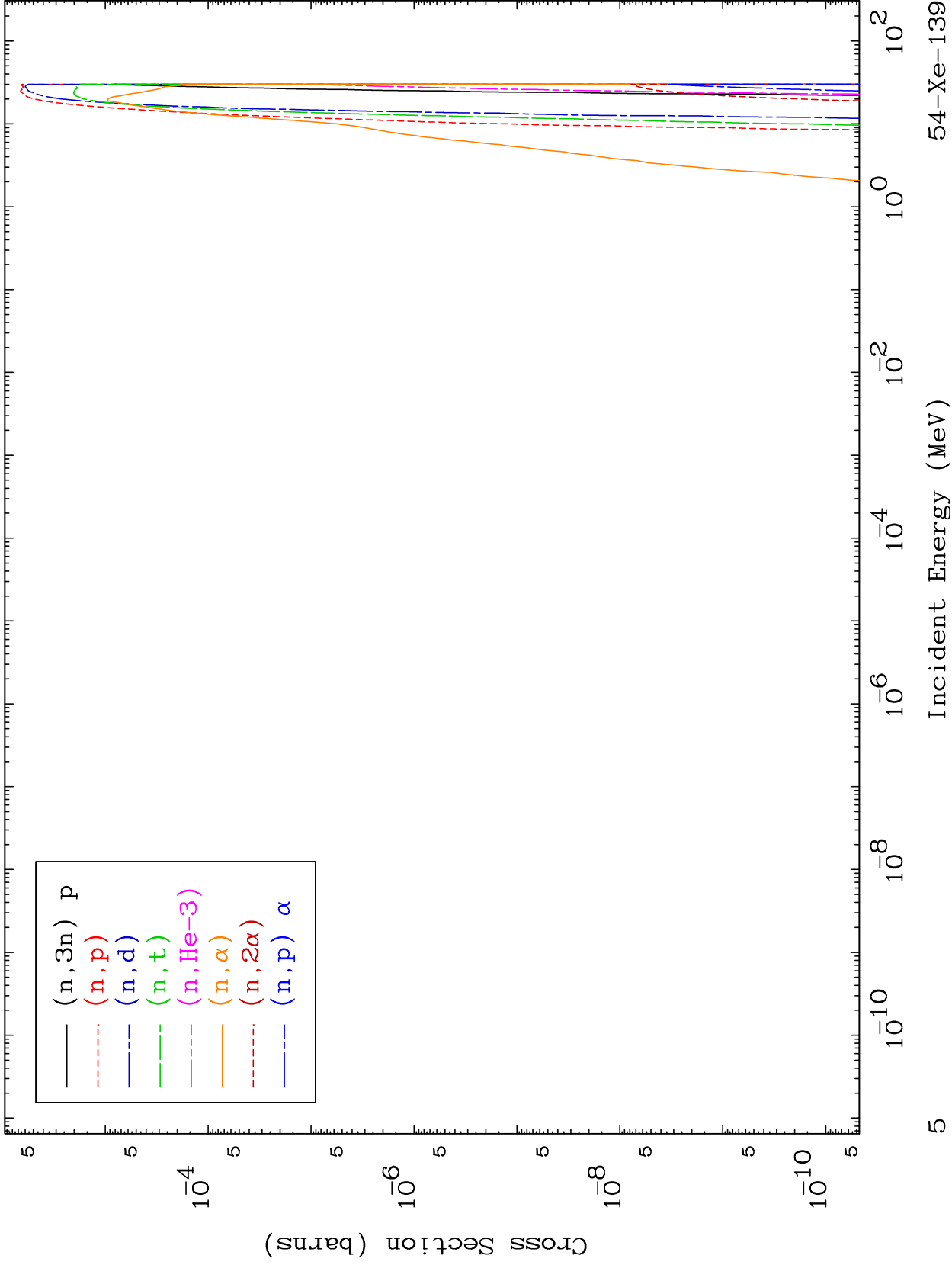
54-Xe-139



MAT 5470

Charged Particle
293 Kelvin Cross Sections

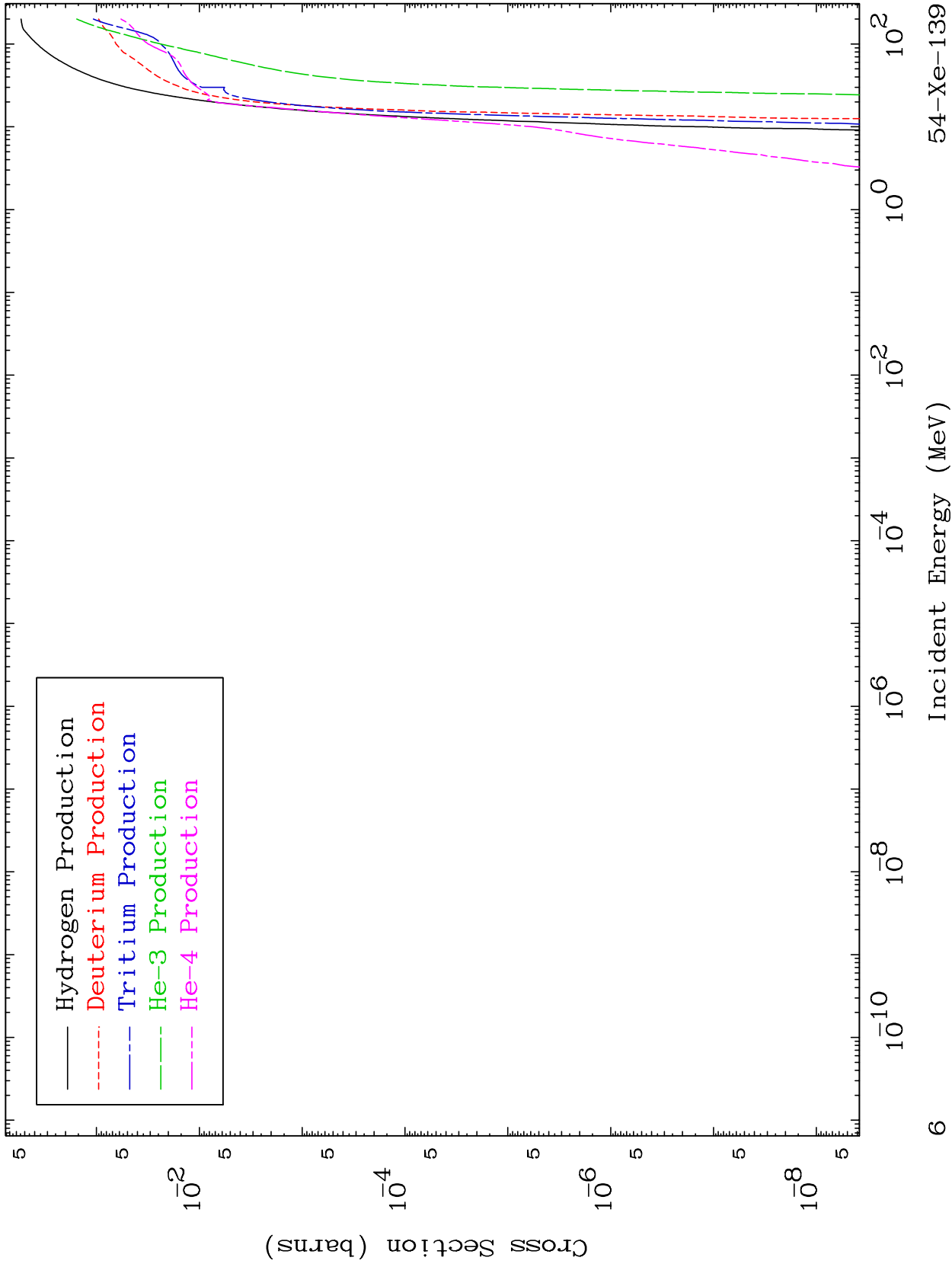
54-Xe-139



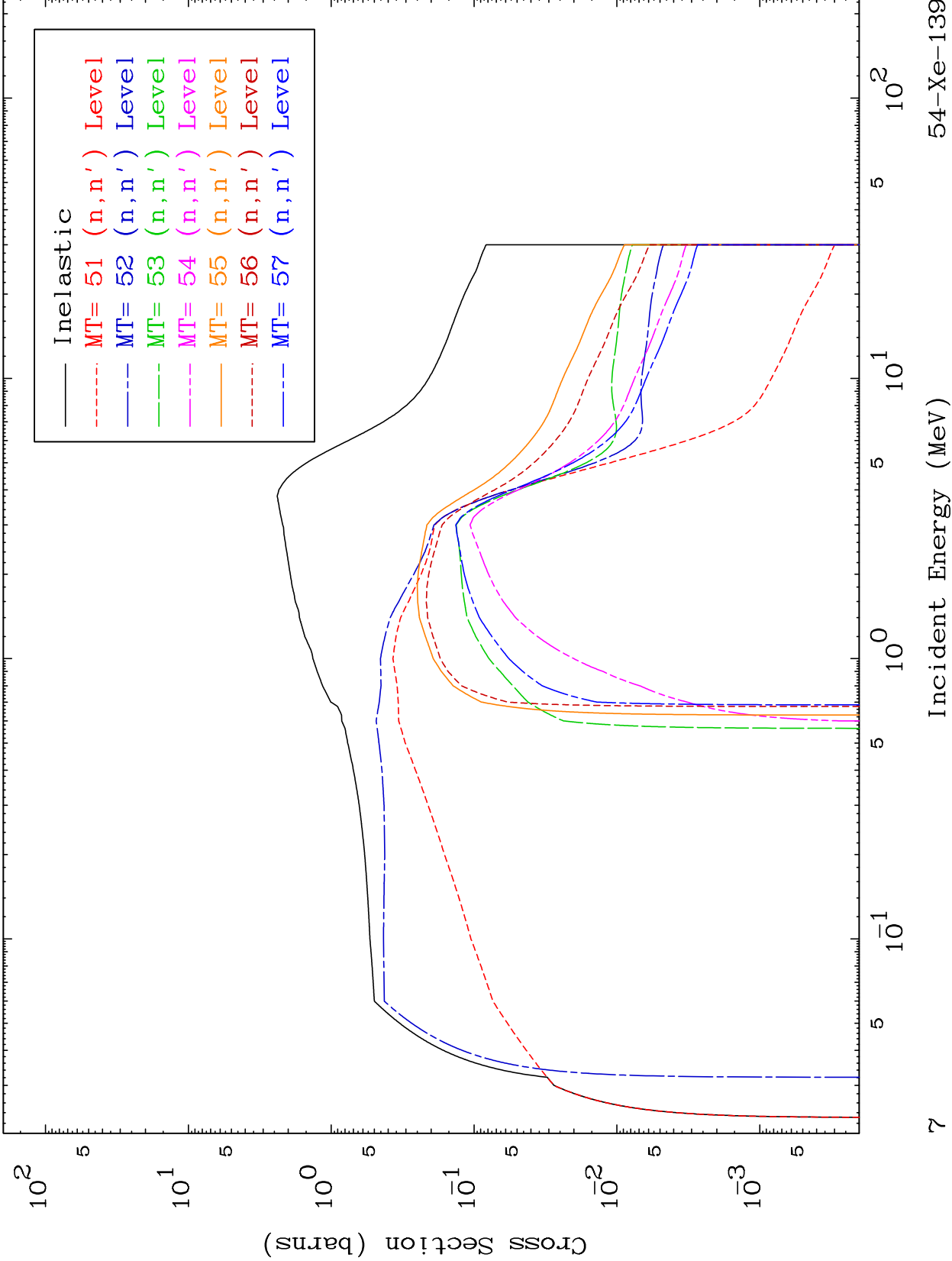
MAT 5470

Particle Production
293 Kelvin Cross Sections

54-Xe-139



293 Kelvin Cross Sections

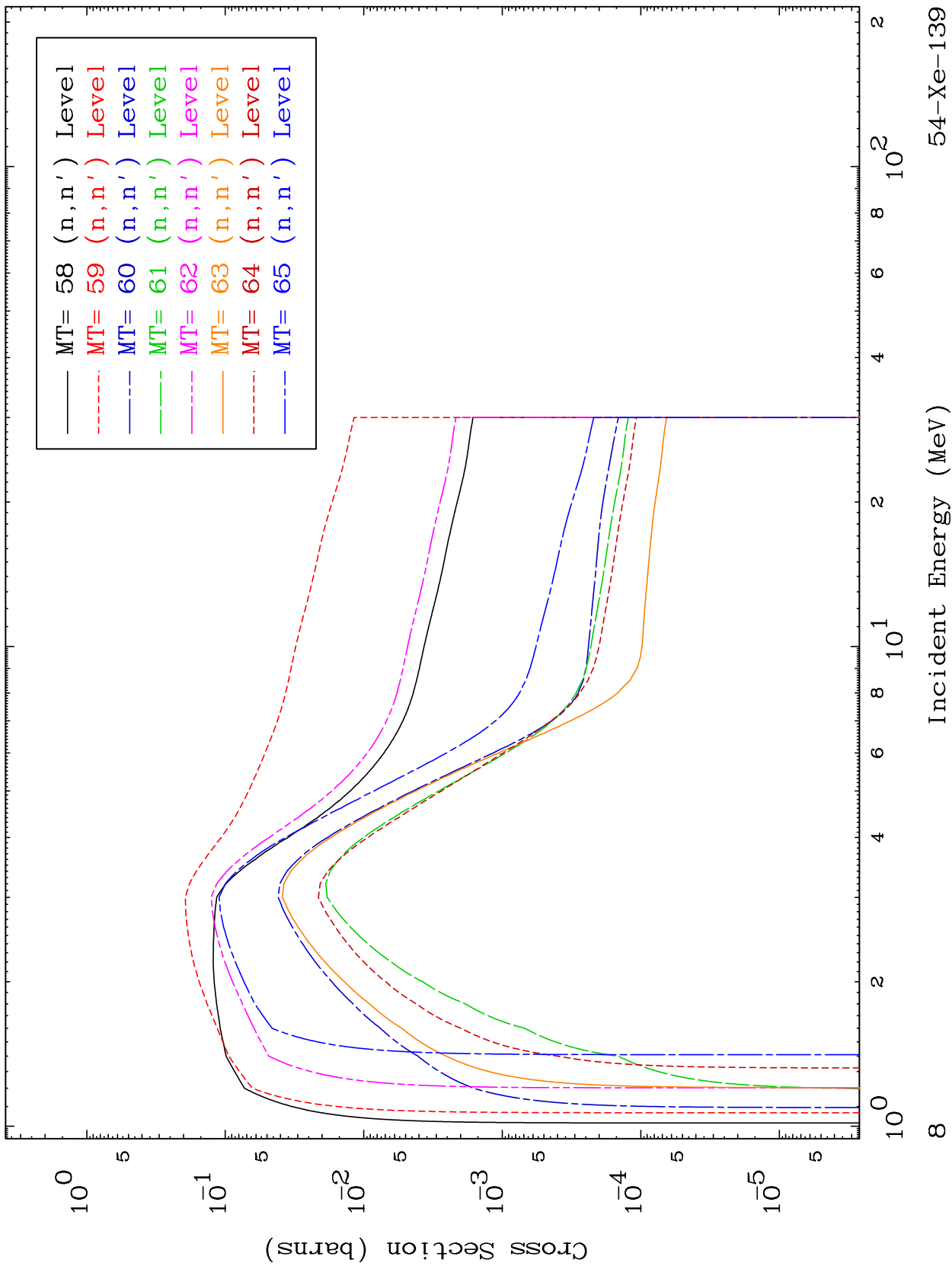


MAT 5470

(n,n') Level

54-Xe-139

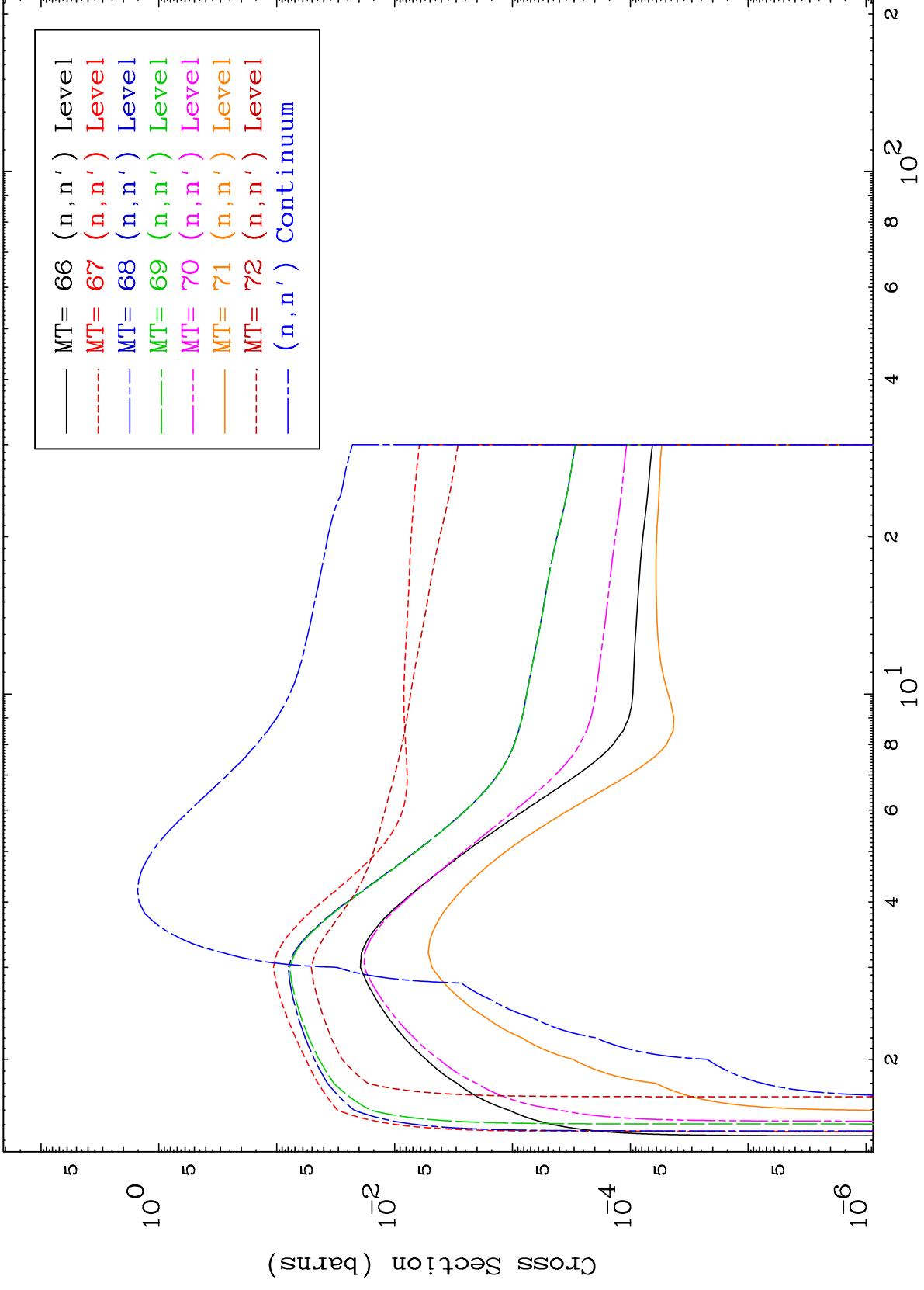
293 Kelvin Cross Sections



Incident Energy (MeV)

54-Xe-139

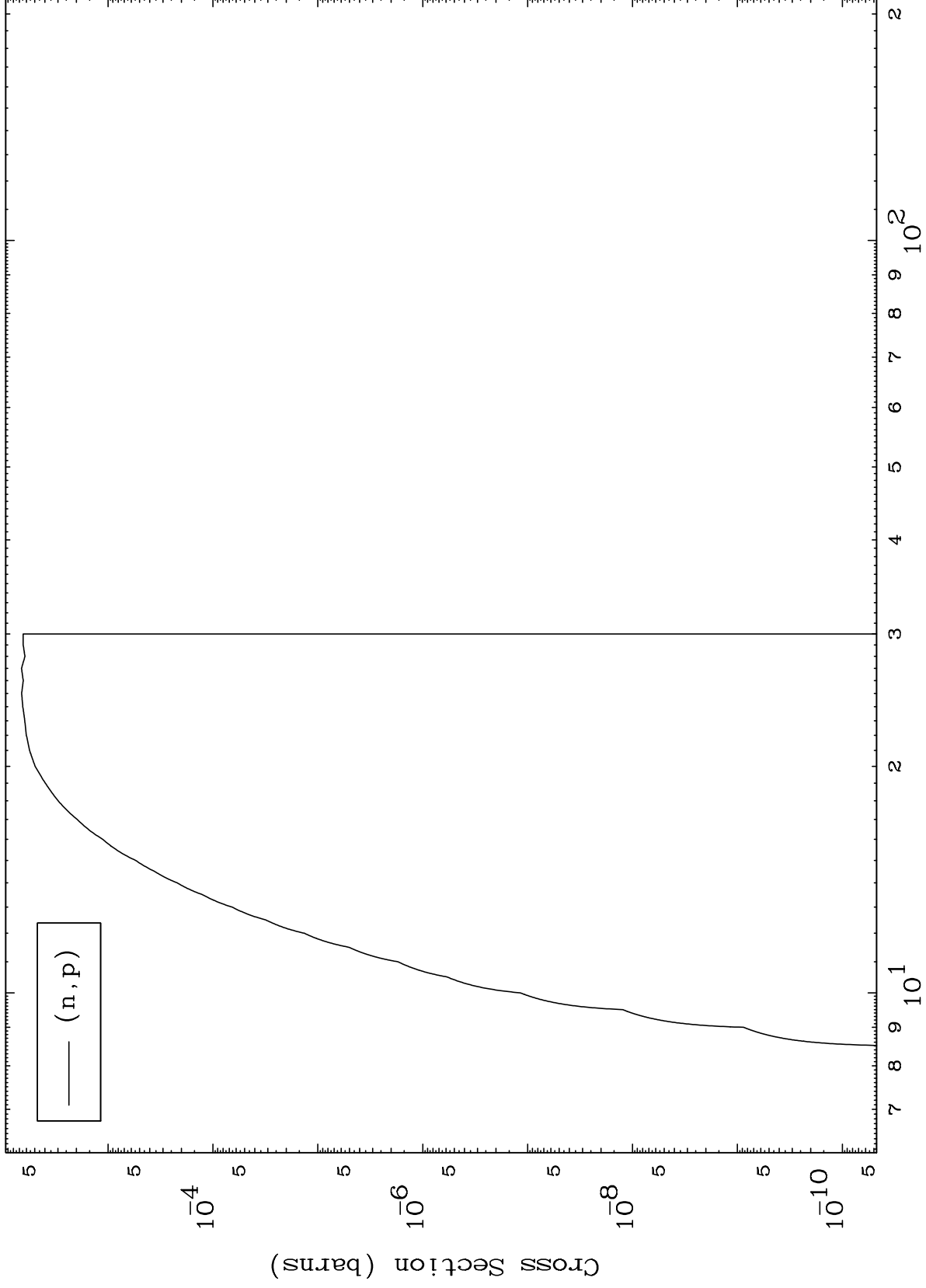
293 Kelvin Cross Sections



MAT 5470

(n,p) Levels
293 Kelvin Cross Sections

54-Xe-139



10

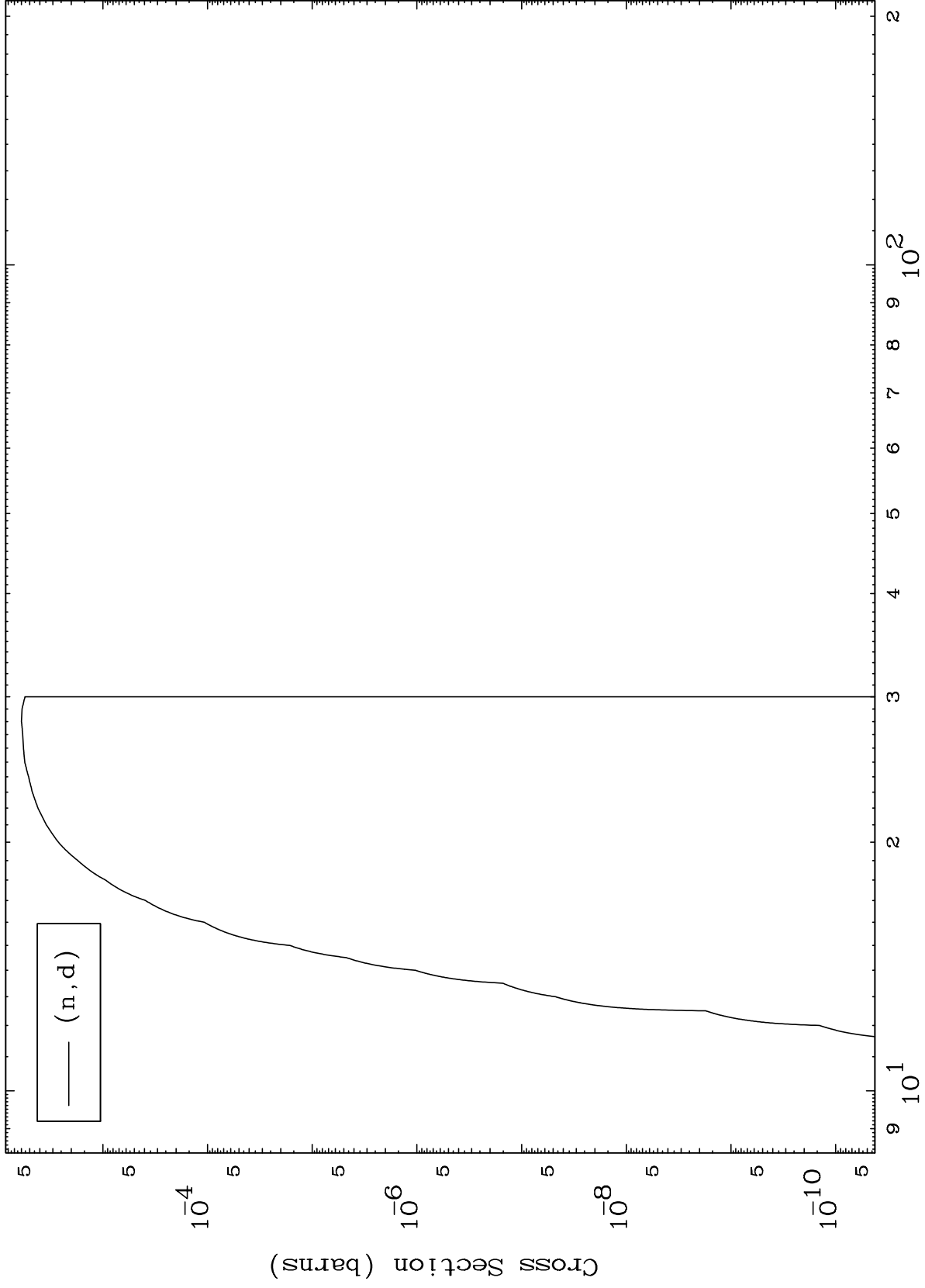
Incident Energy (MeV)

54-Xe-139

MAT 5470

(n,d) Levels
293 Kelvin Cross Sections

54-Xe-139



11

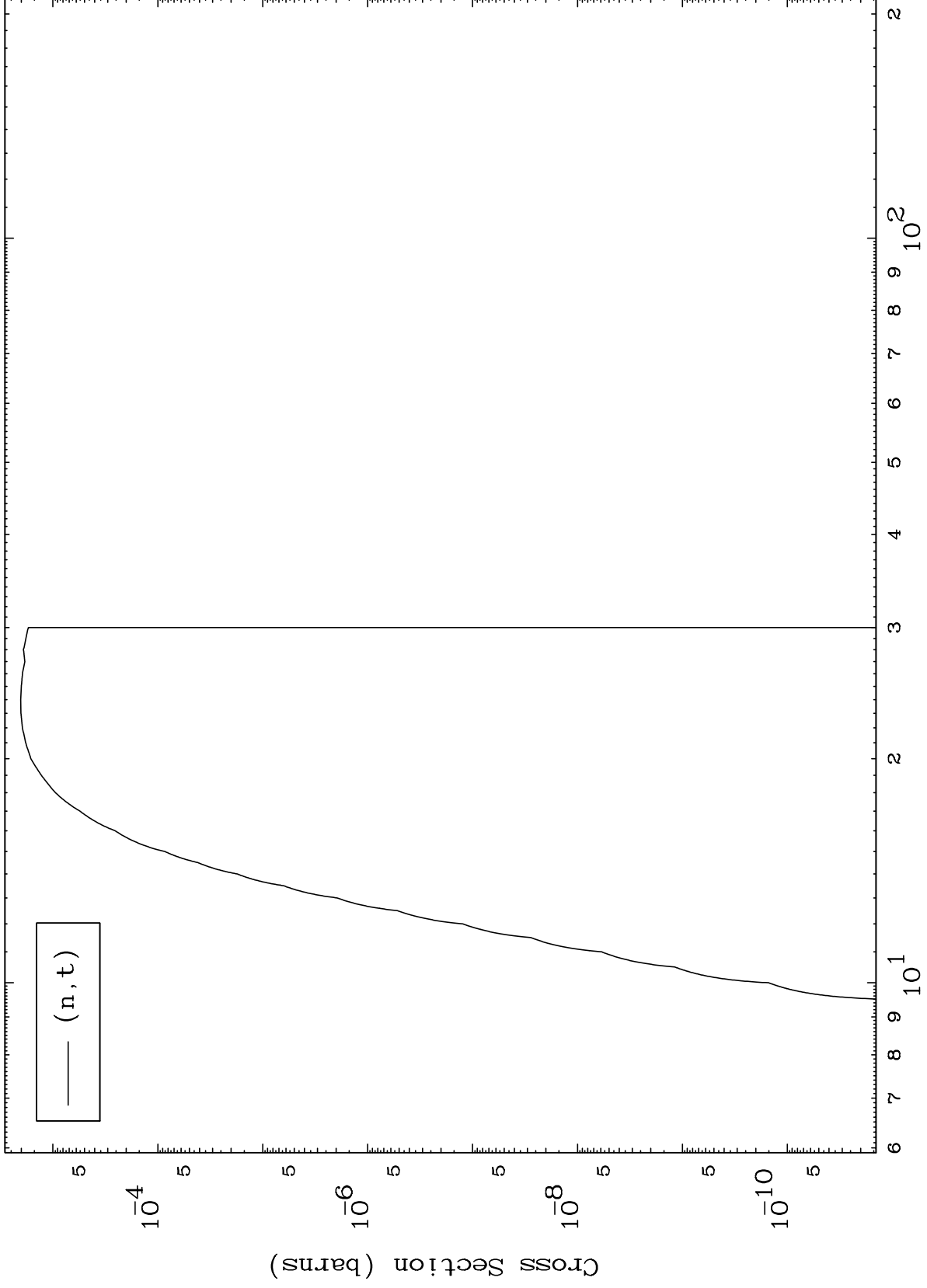
Incident Energy (MeV)

54-Xe-139

MAT 5470

(n, t) Levels
293 Kelvin Cross Sections

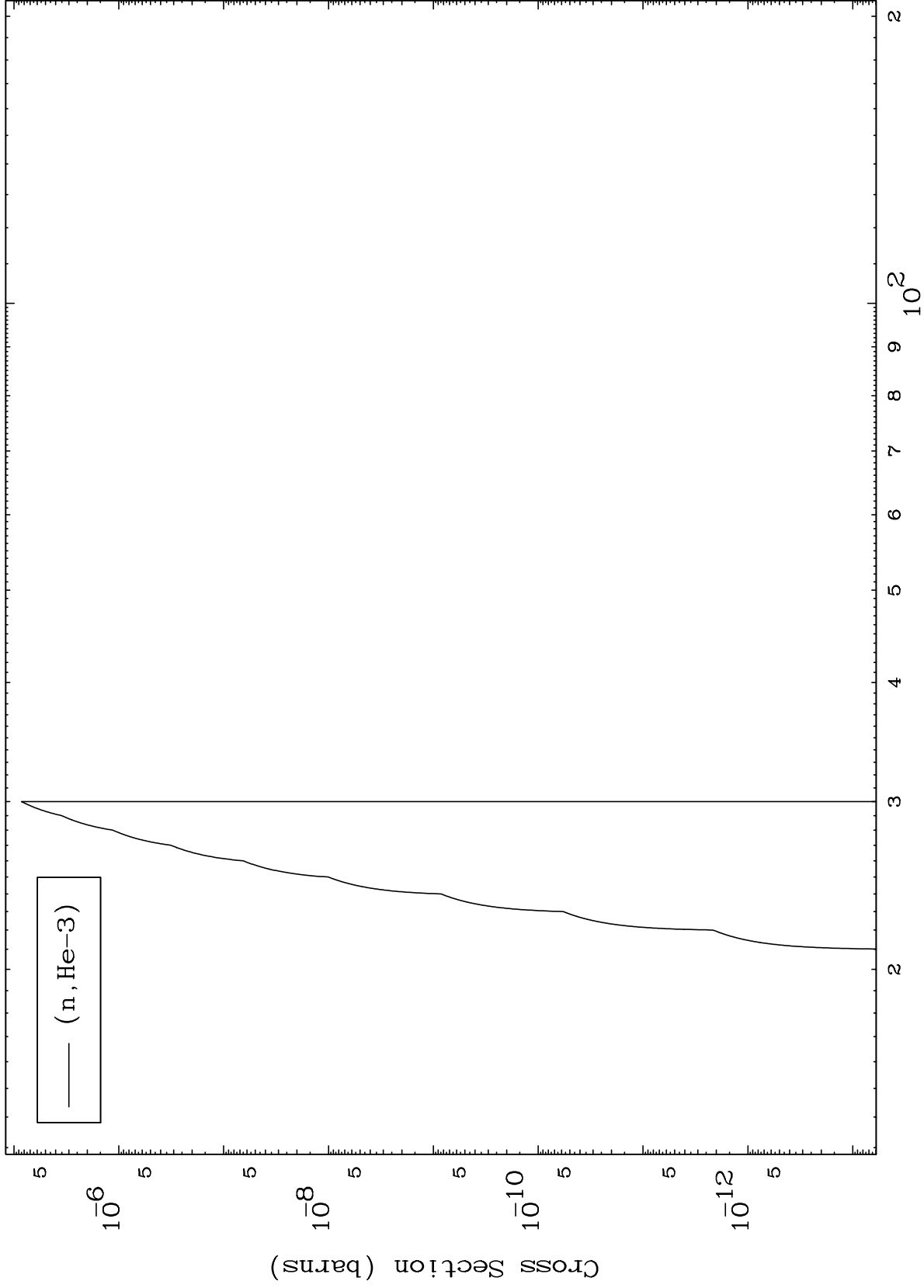
54-Xe-139



12

Incident Energy (MeV)

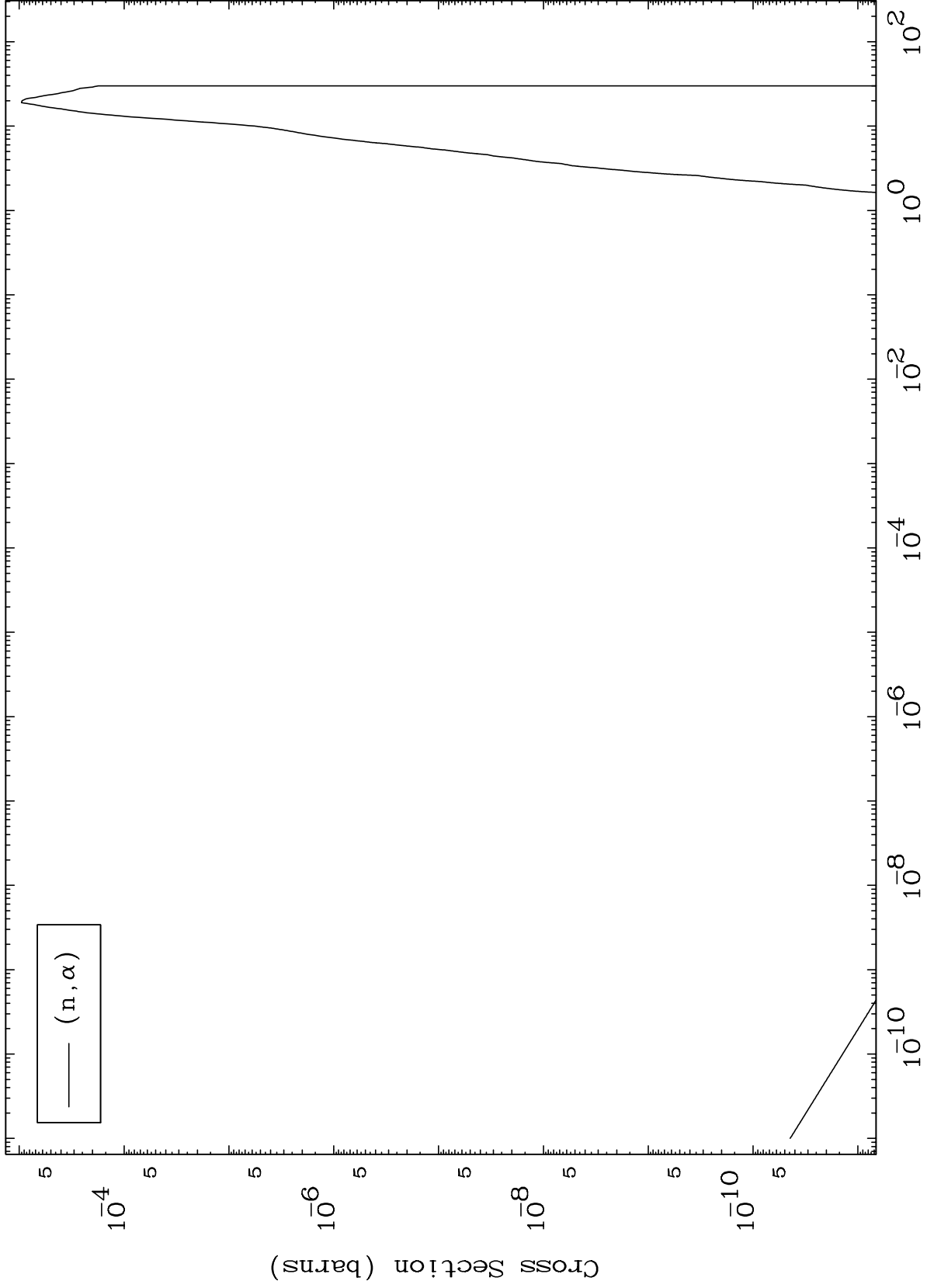
54-Xe-139



MAT 5470

(n, α) Levels
293 Kelvin Cross Sections

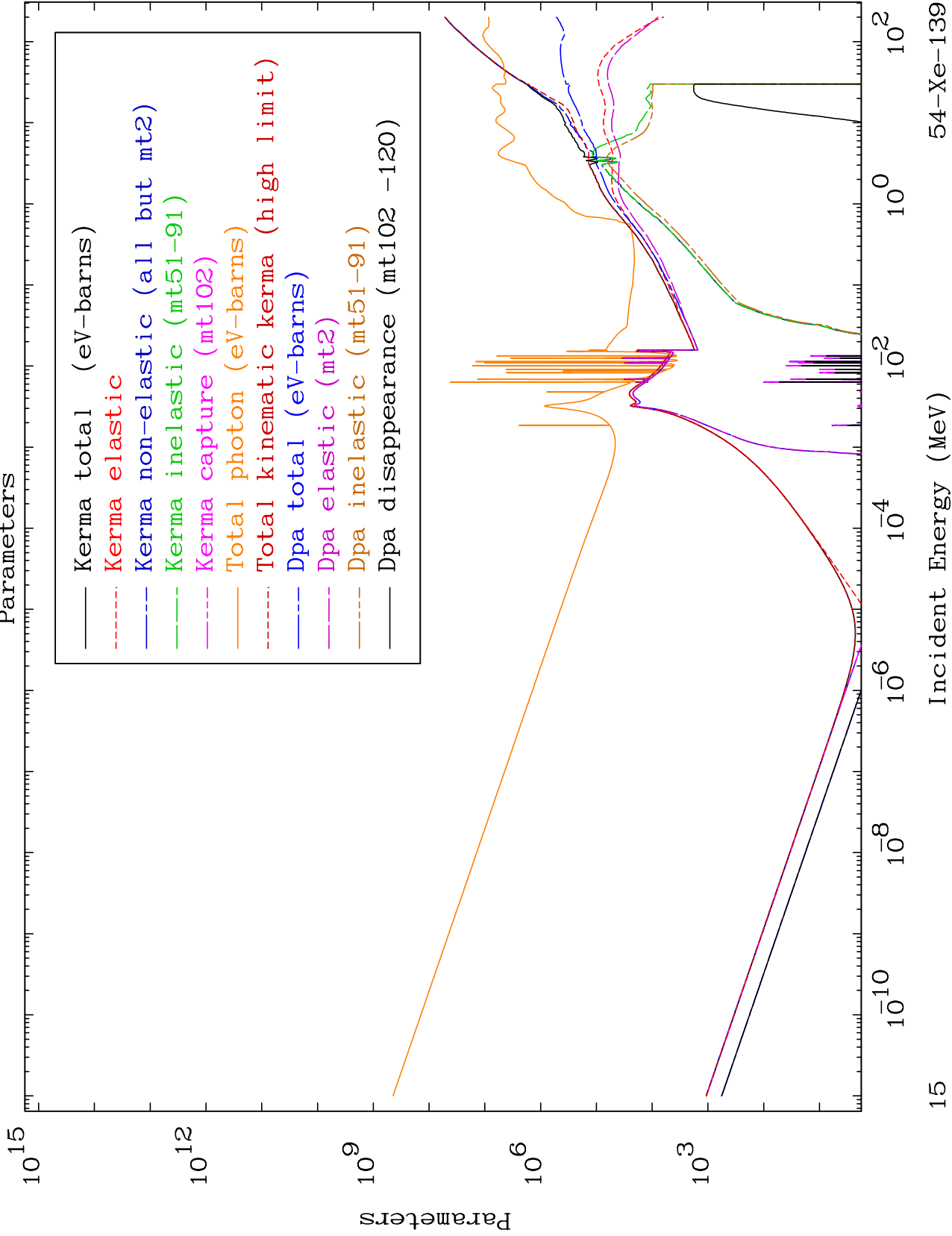
54-Xe-139



14

Incident Energy (MeV)

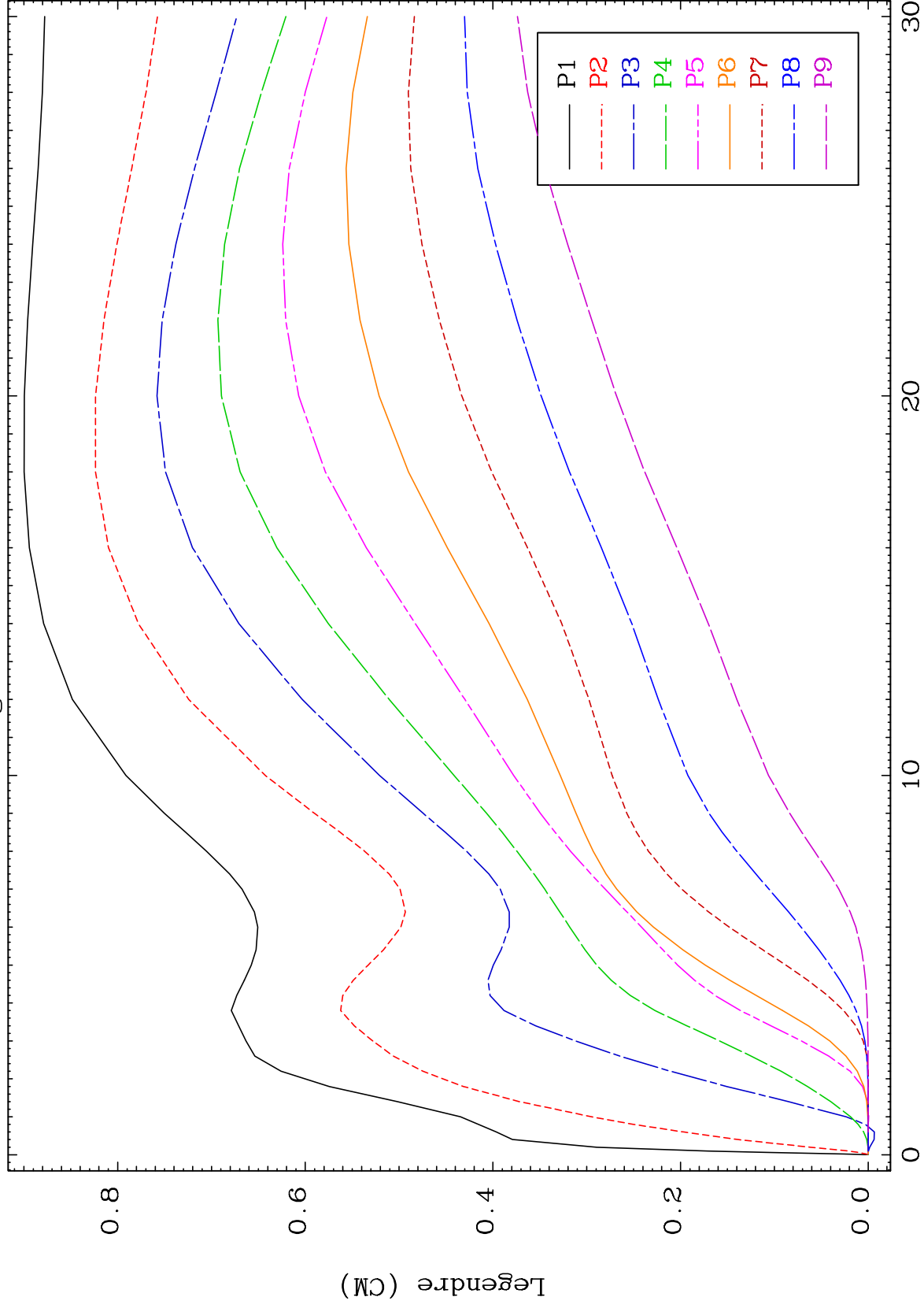
54-Xe-139



MAT 5470

Elastic Legendre Coefficients

54-Xe-139



16

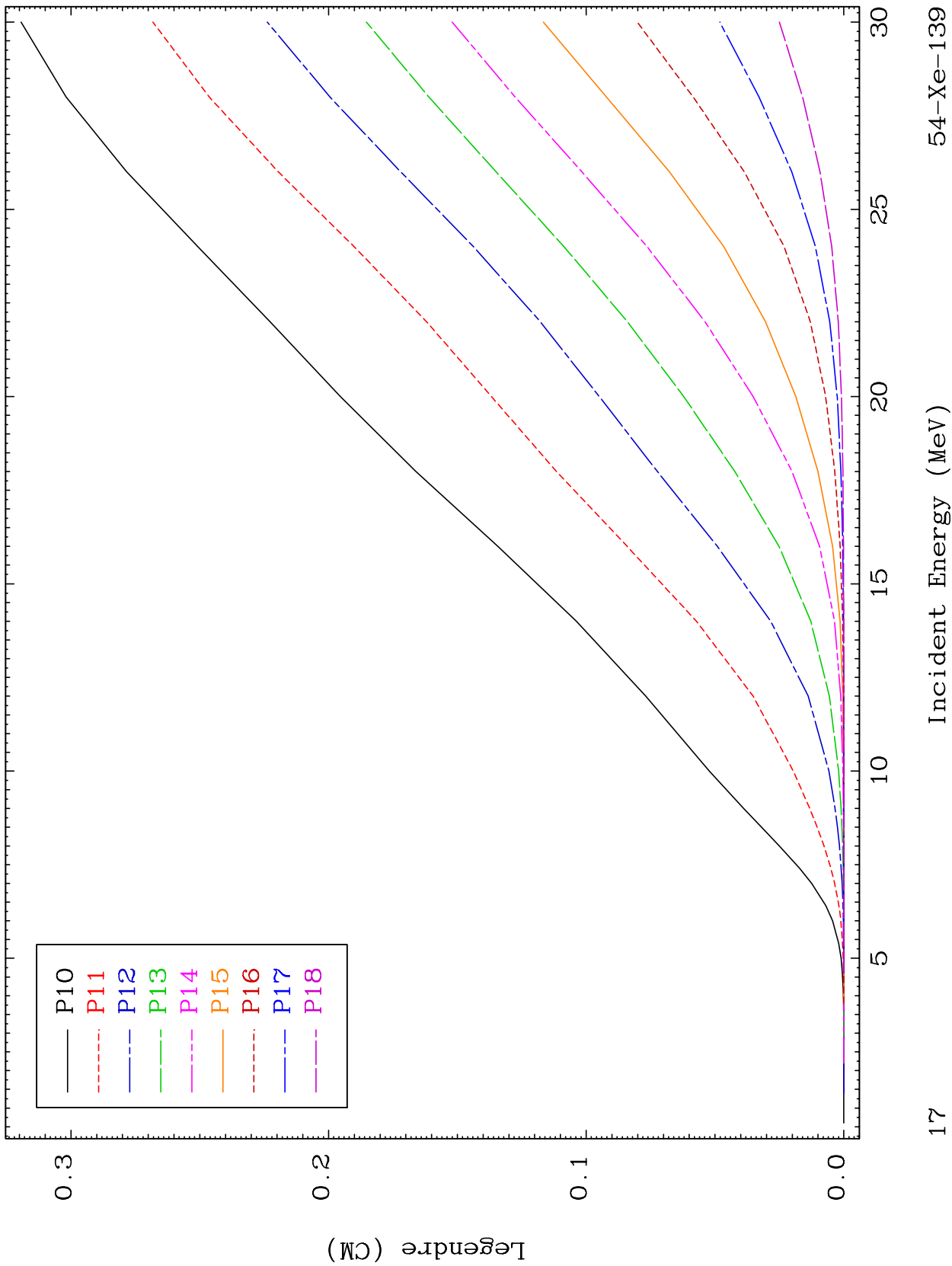
Incident Energy (MeV)

54-Xe-139

MAT 5470

Elastic Legendre Coefficients

54-Xe-139



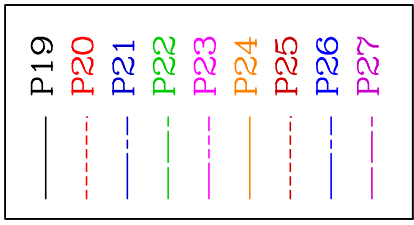
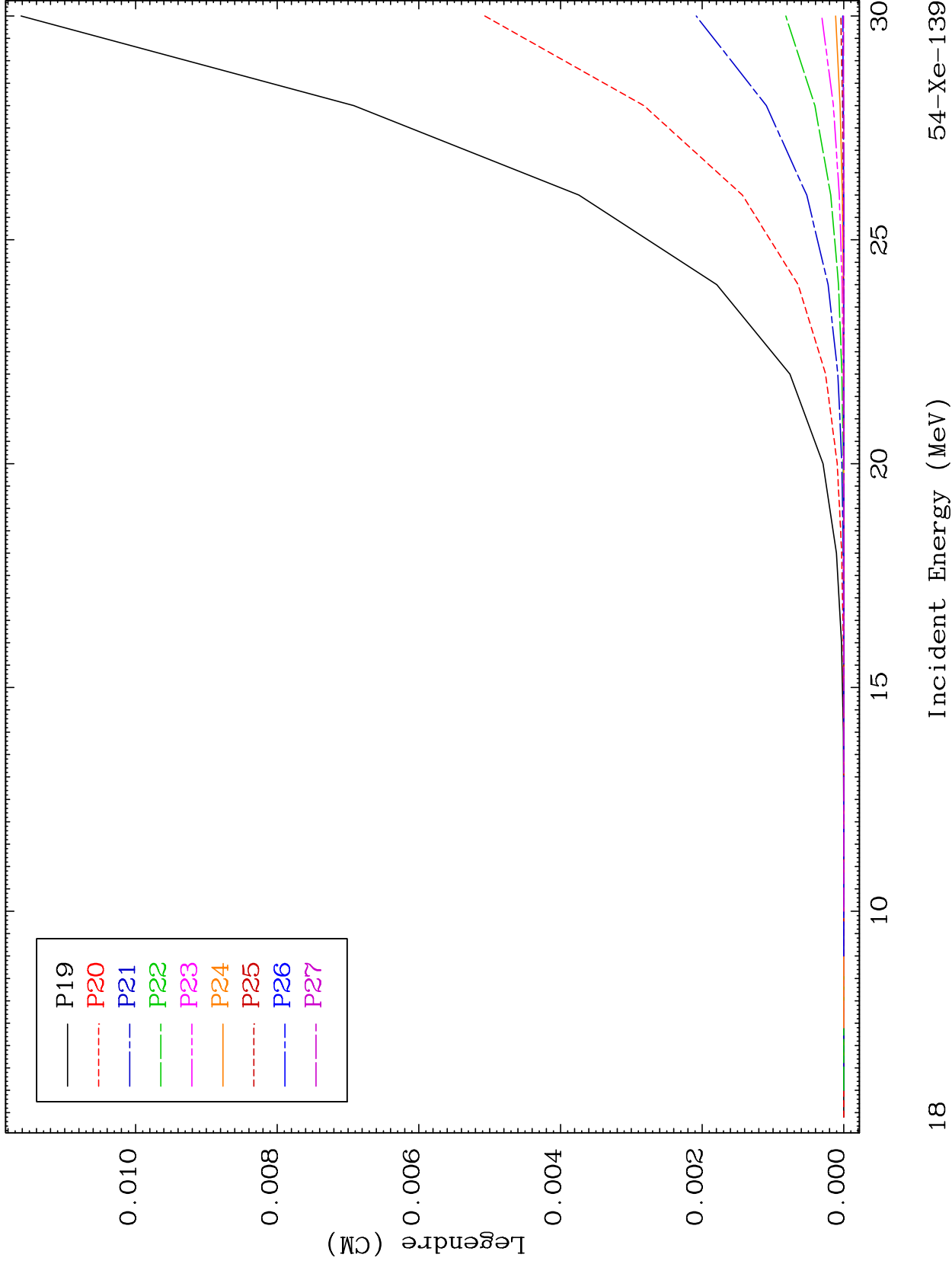
17

54-Xe-139

MAT 5470

Elastic Legendre Coefficients

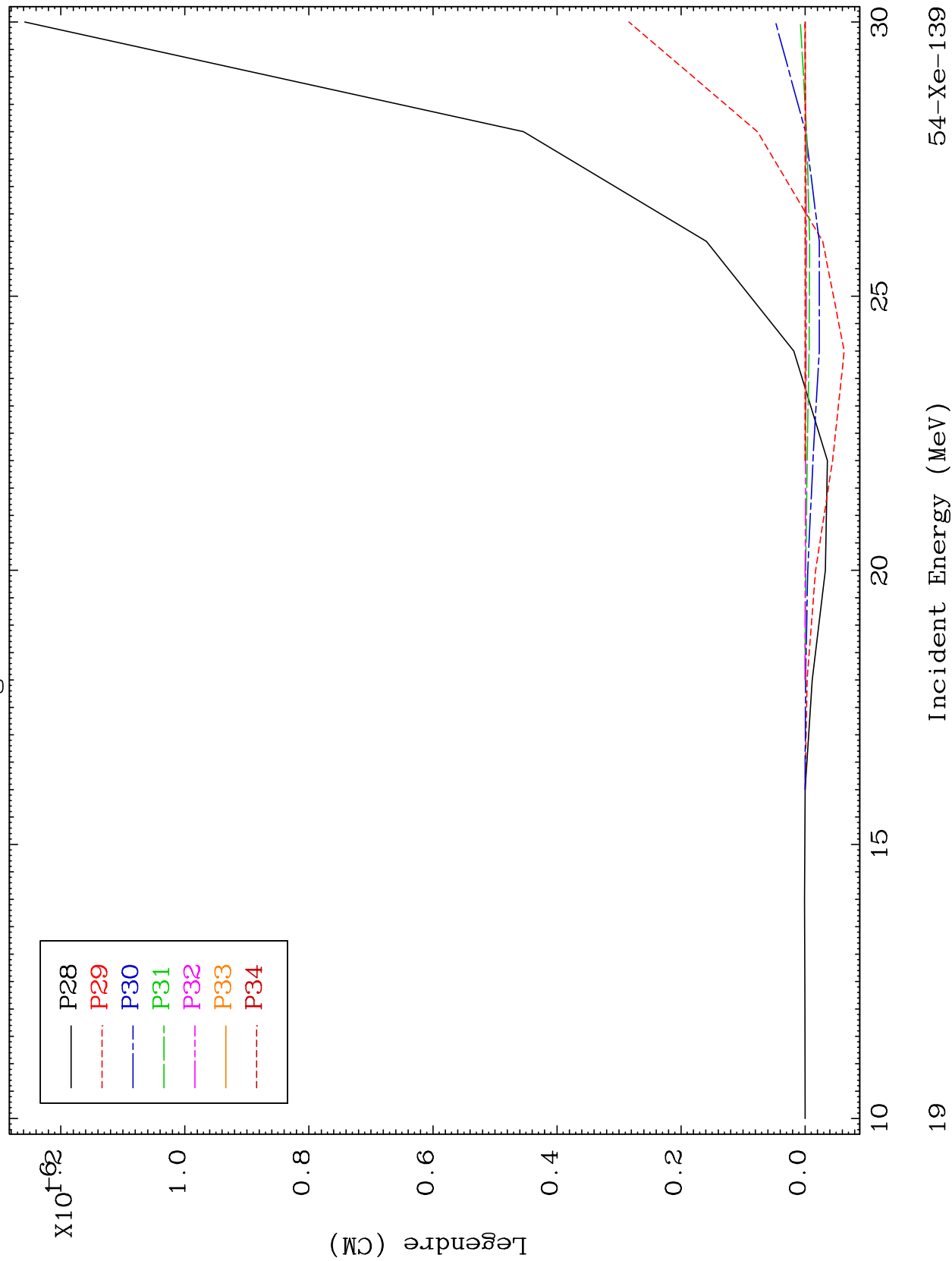
54-Xe-139



MAT 5470

Elastic Legendre Coefficients

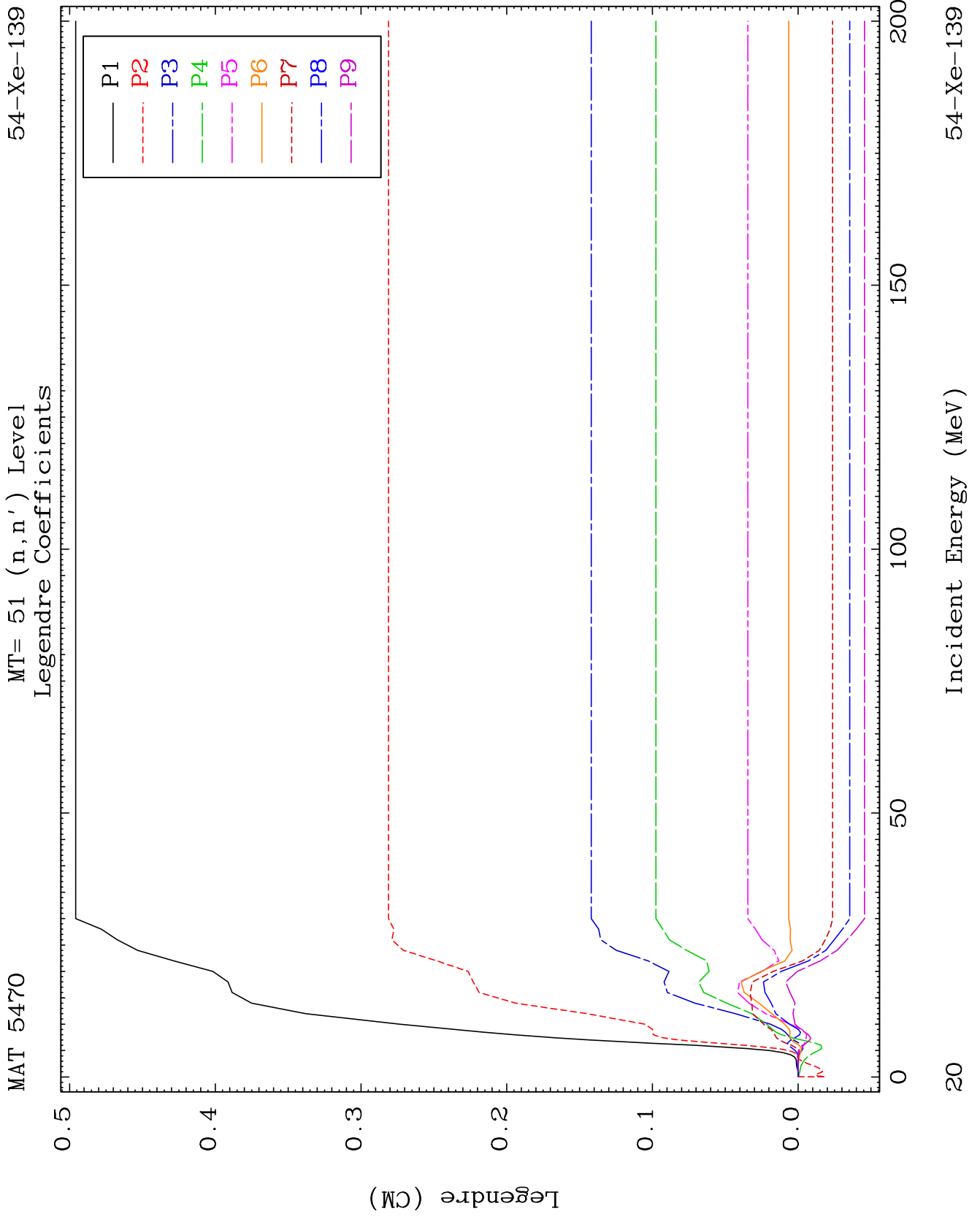
54-Xe-139



19

Incident Energy (MeV)

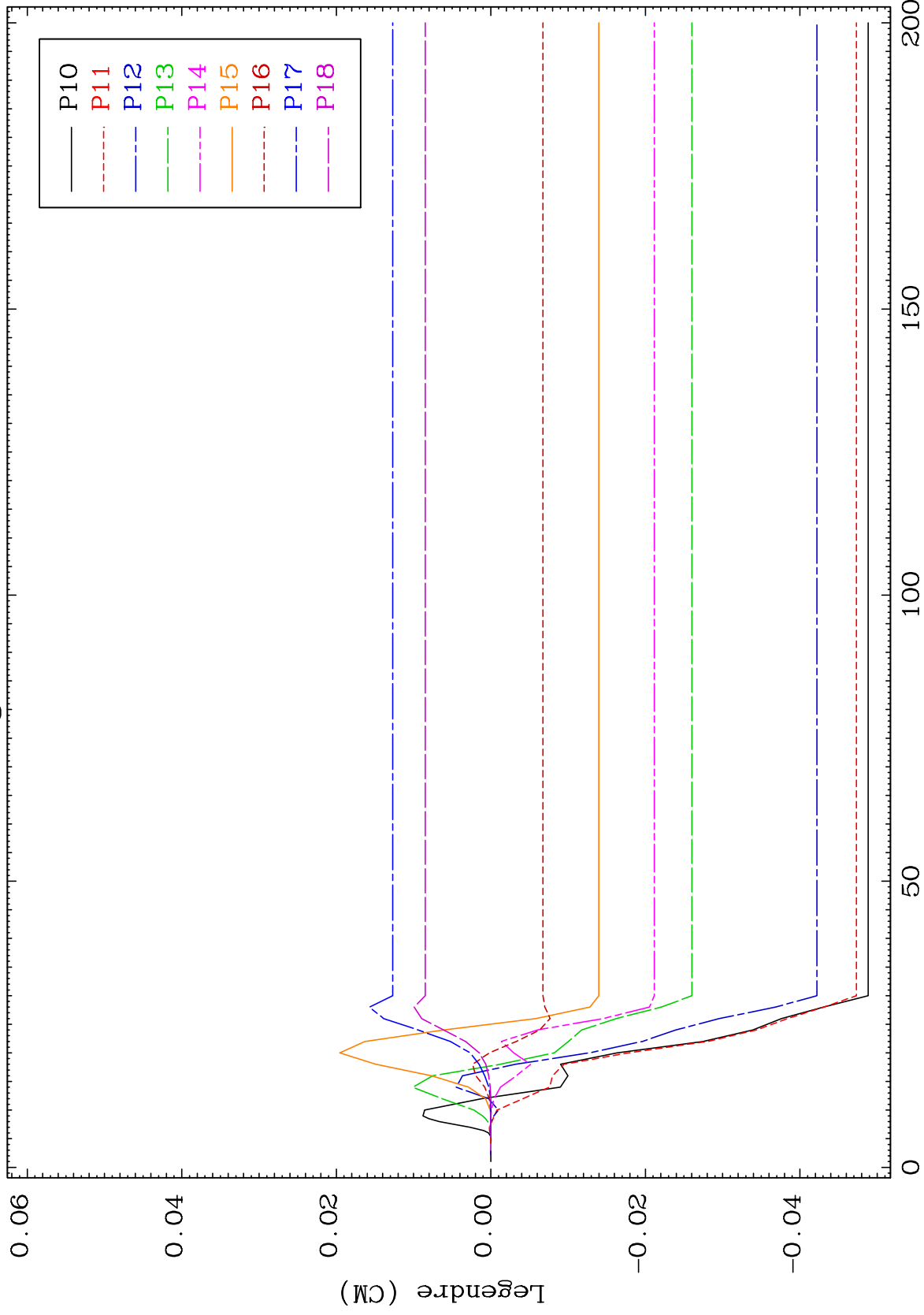
54-Xe-139



MAT 5470

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

54-Xe-139



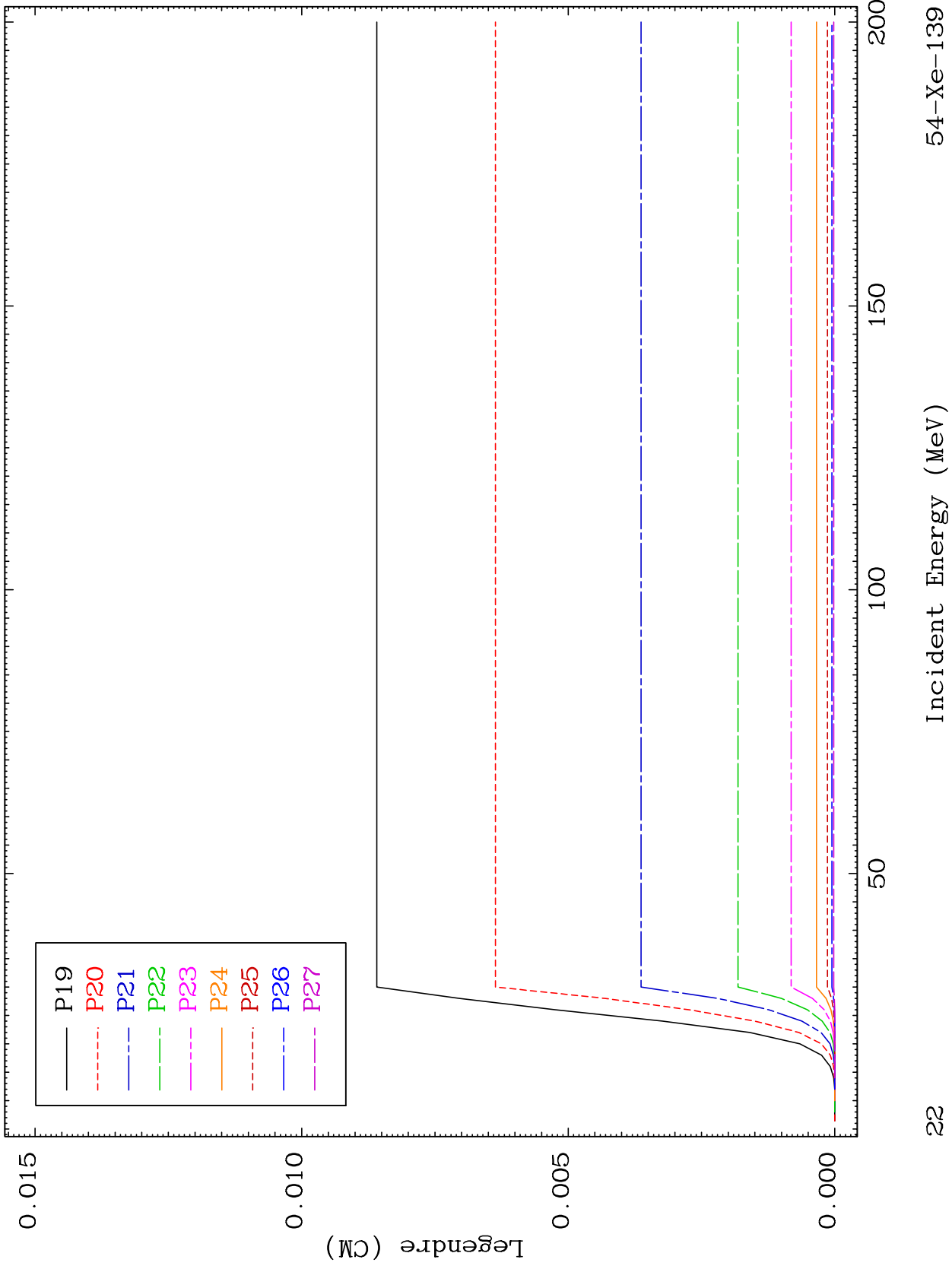
21

54-Xe-139

MAT 5470

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

54-Xe-139



22

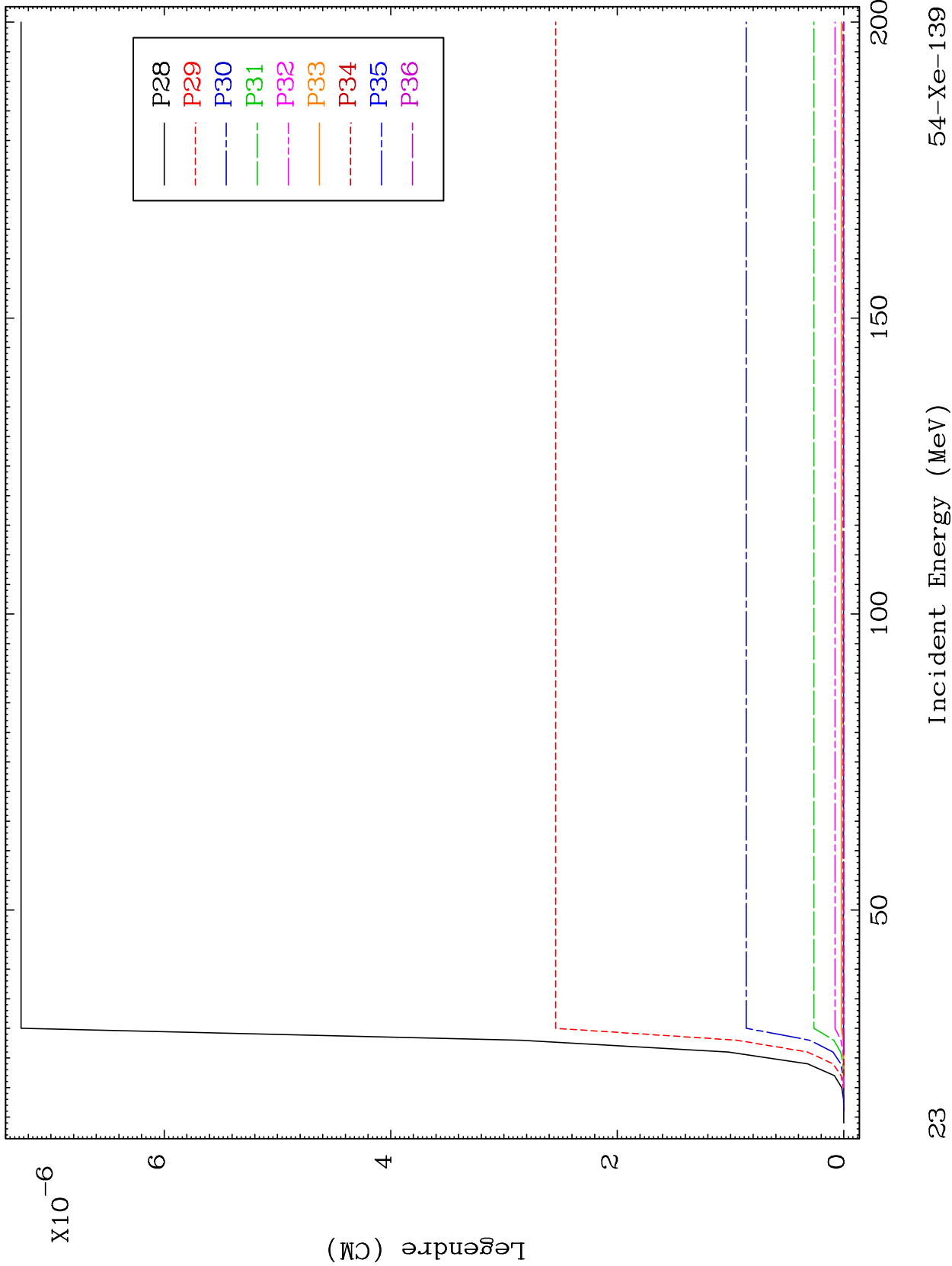
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

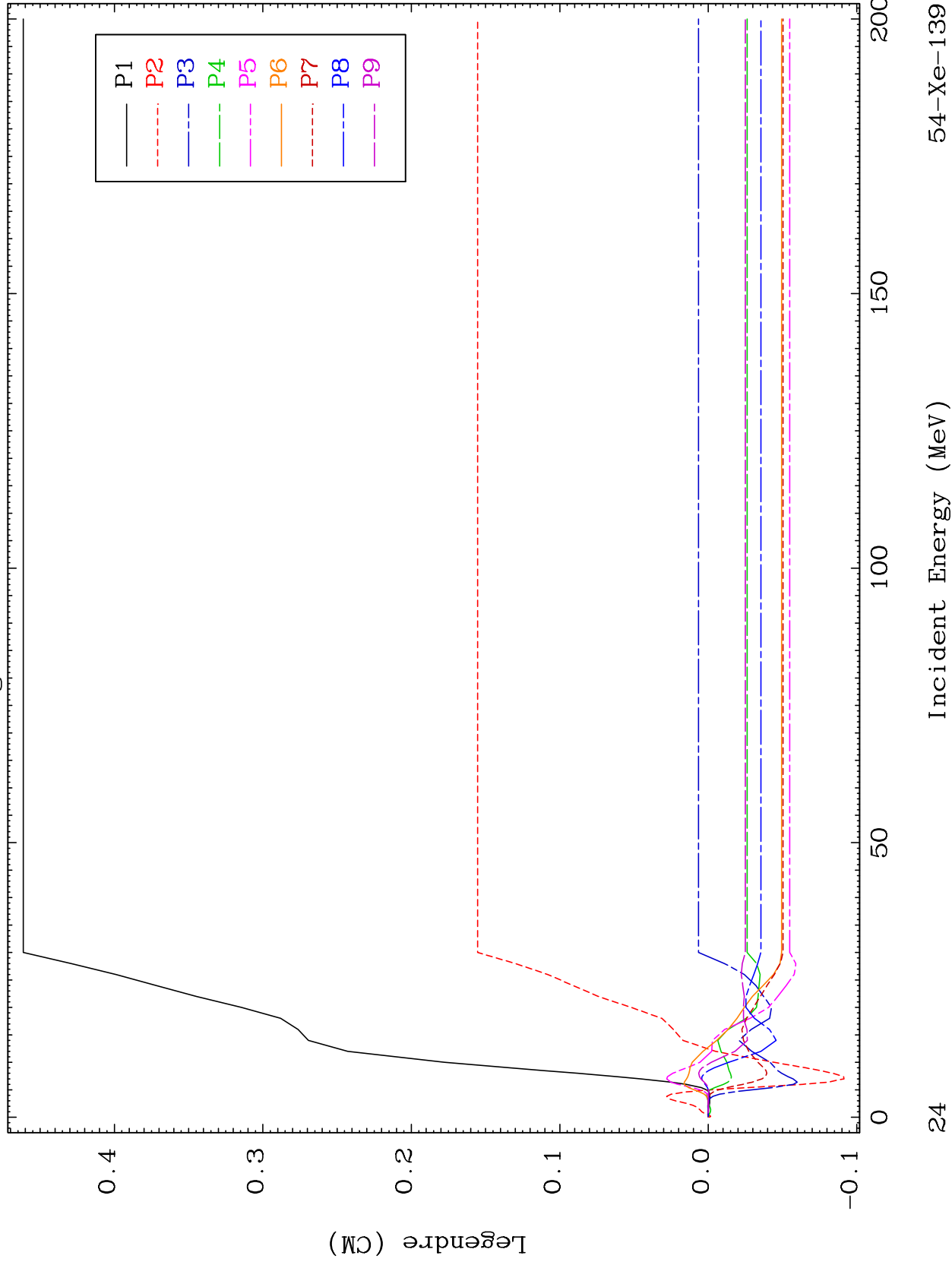
54-Xe-139



MAT 5470

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

54-Xe-139



54-Xe-139

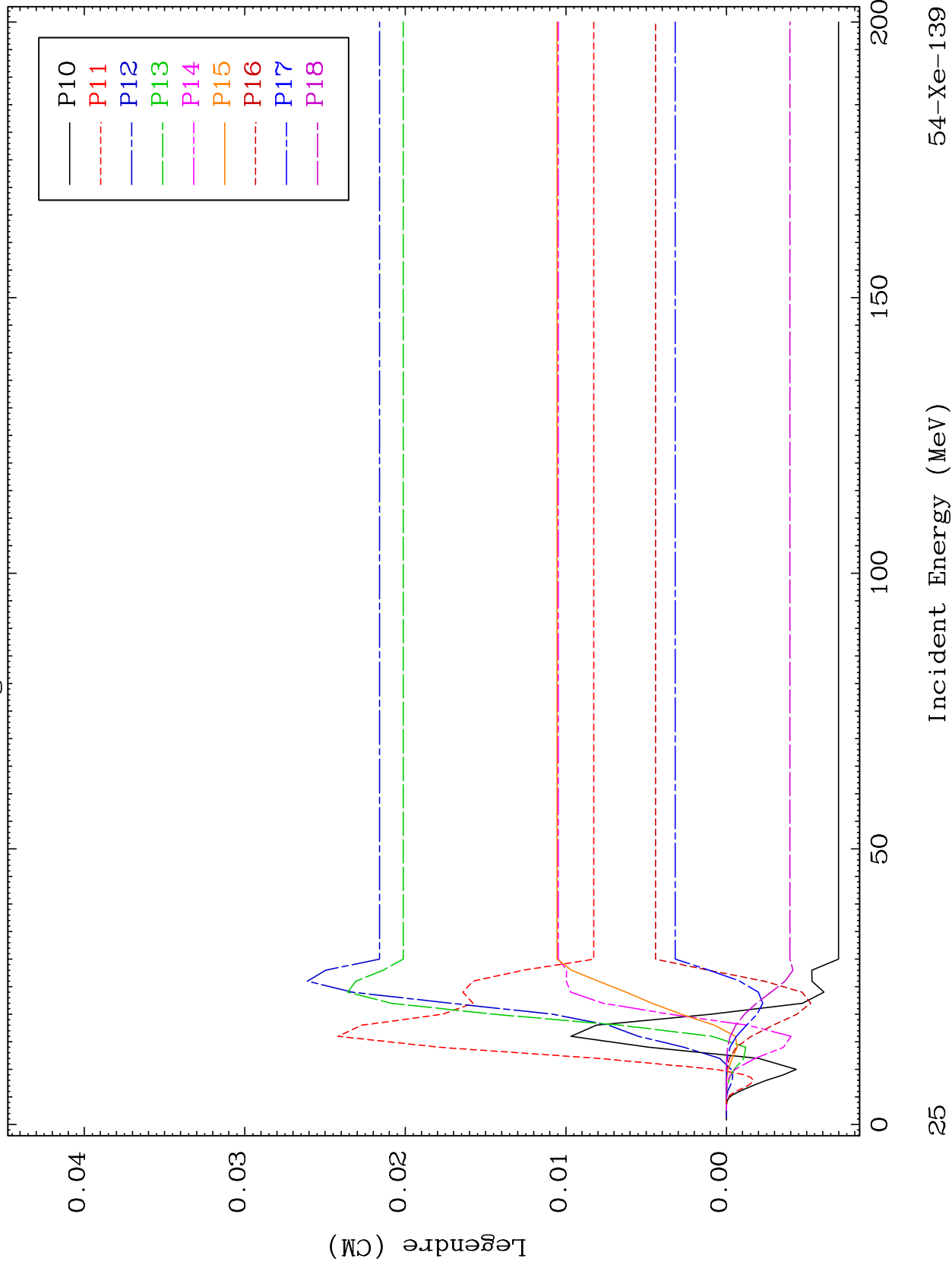
Incident Energy (MeV)

24

MAT 5470

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

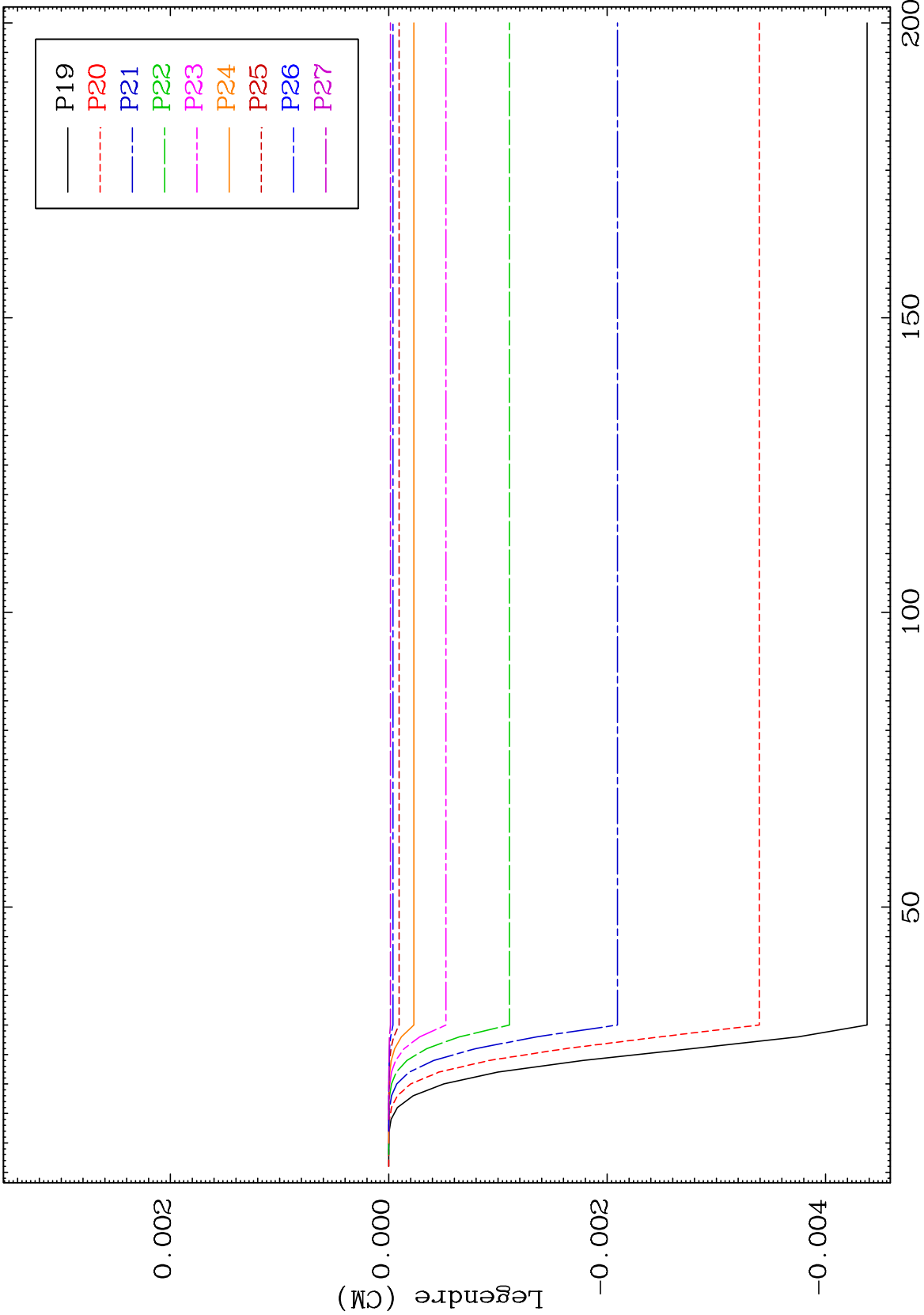
54-Xe-139



MAT 5470

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

54-Xe-139



26

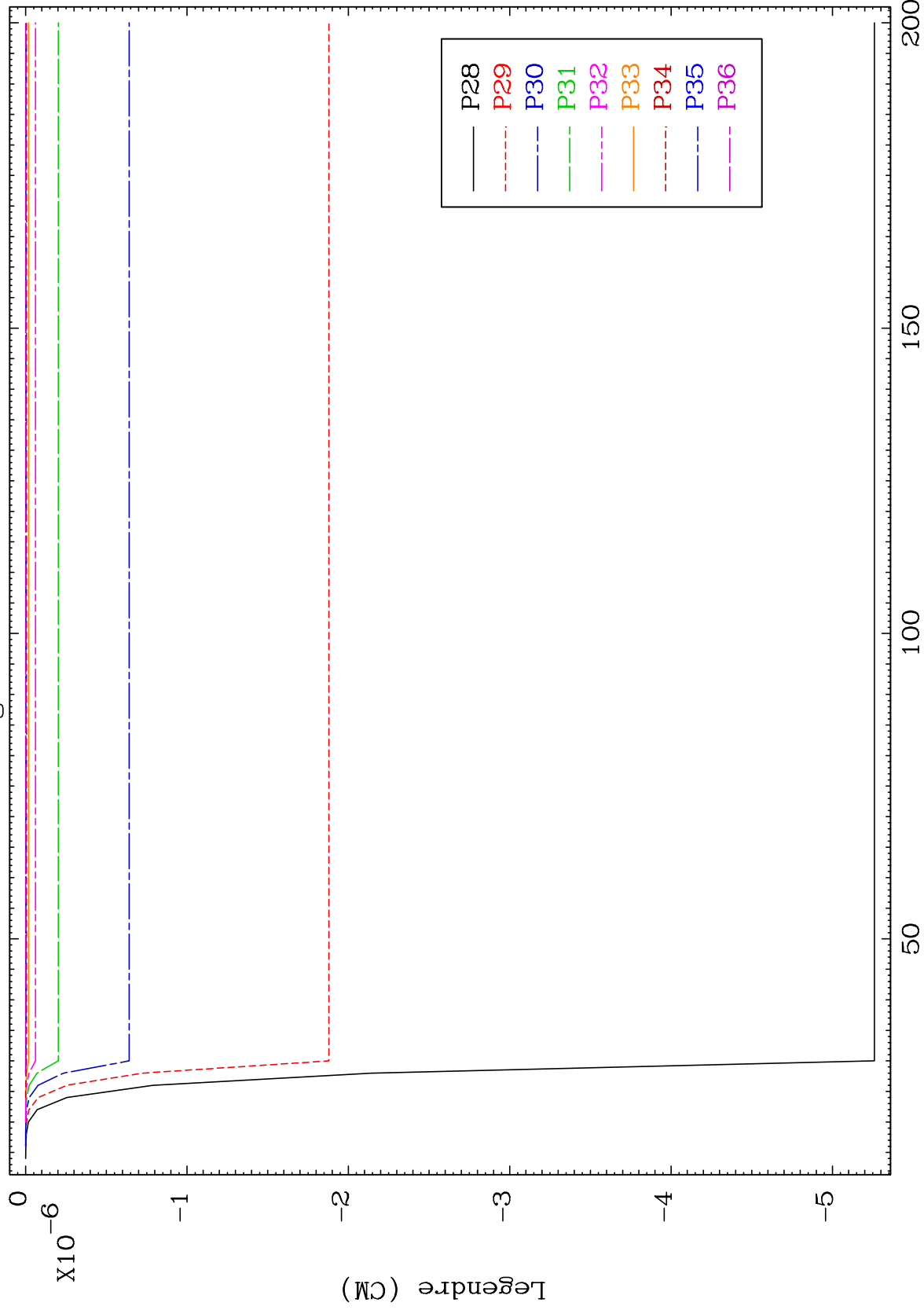
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

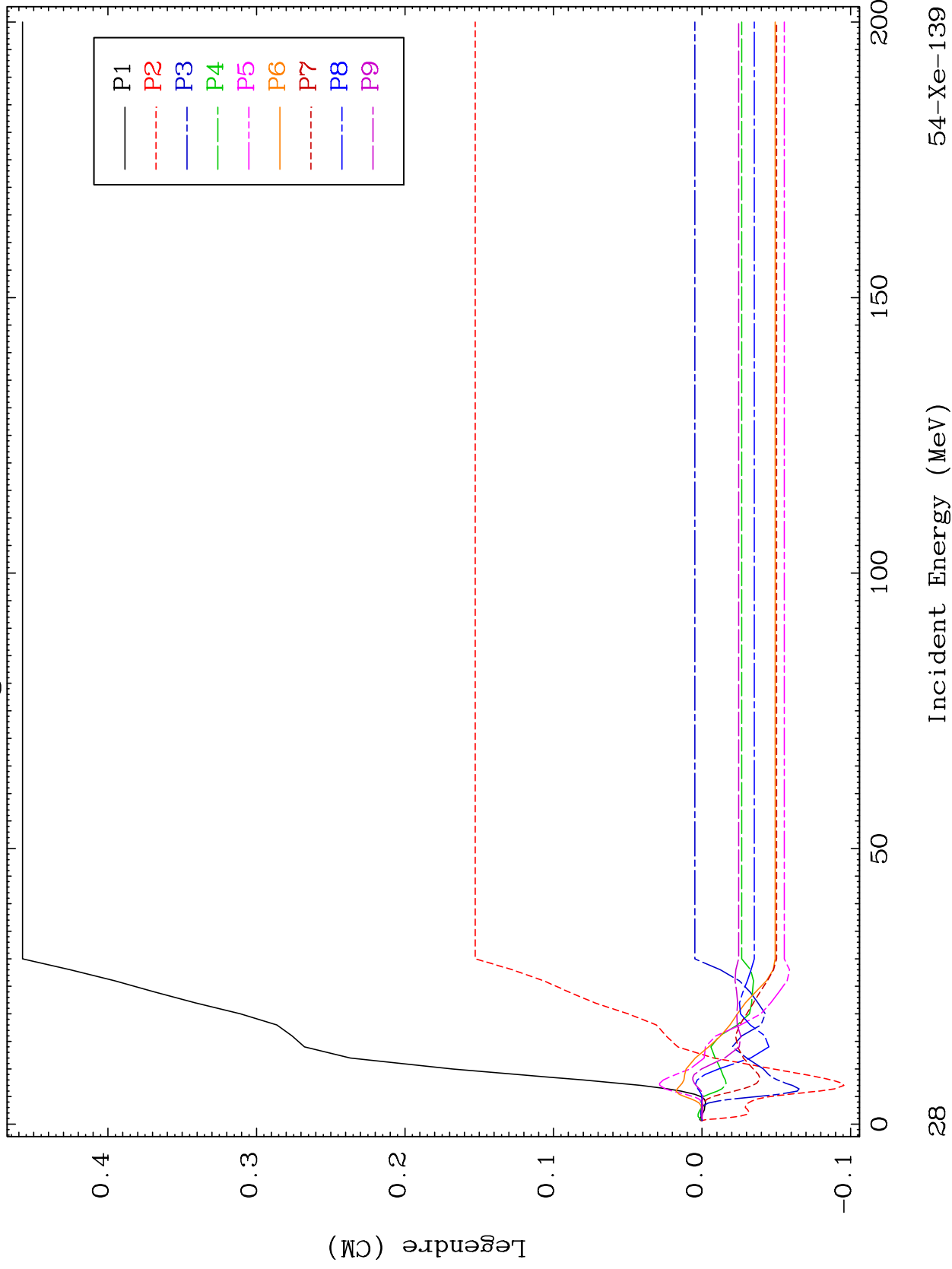
54-Xe-139



MAT 5470

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

54-Xe-139



54-Xe-139

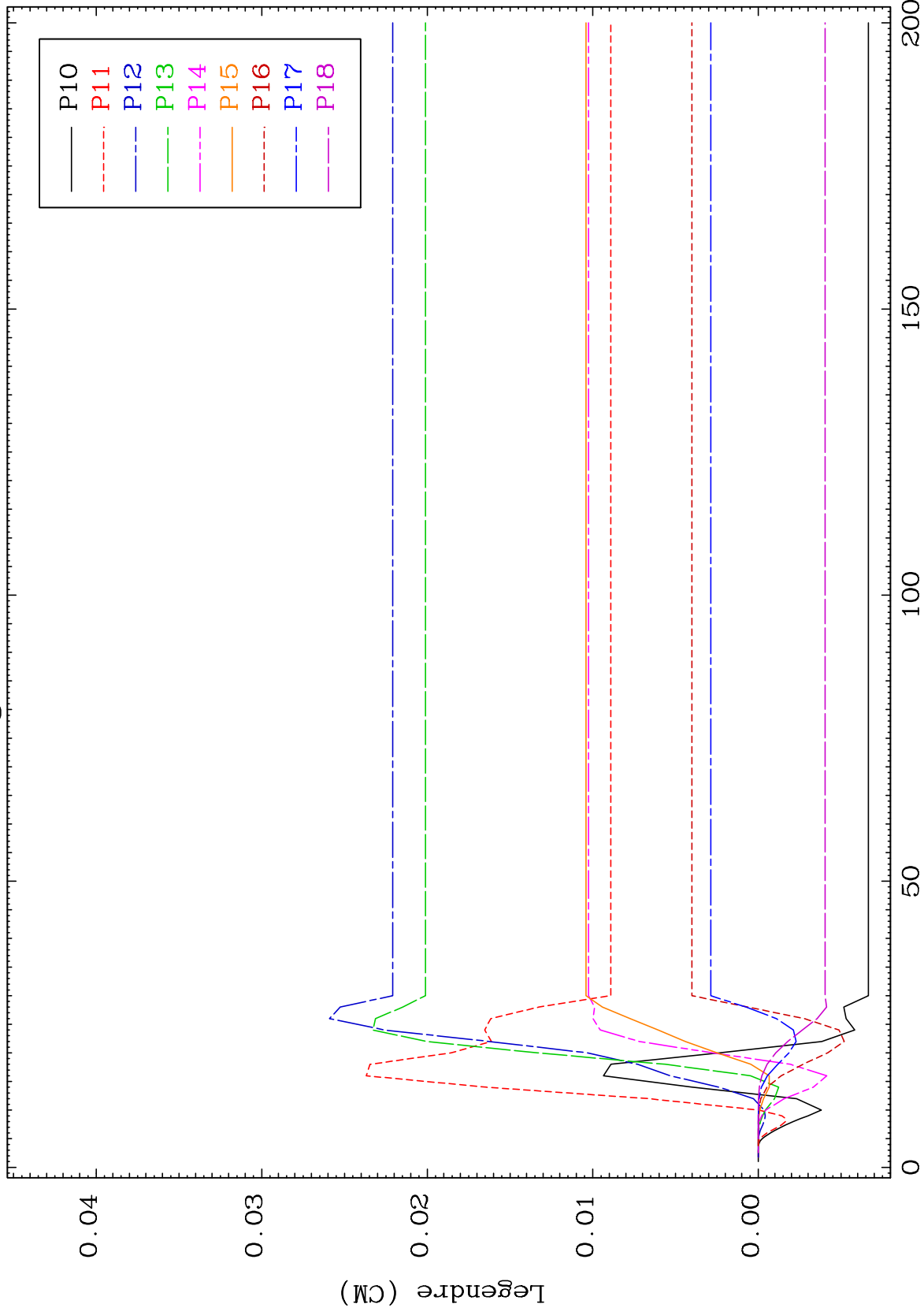
Incident Energy (MeV)

28

MAT 5470

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

54-Xe-139



29

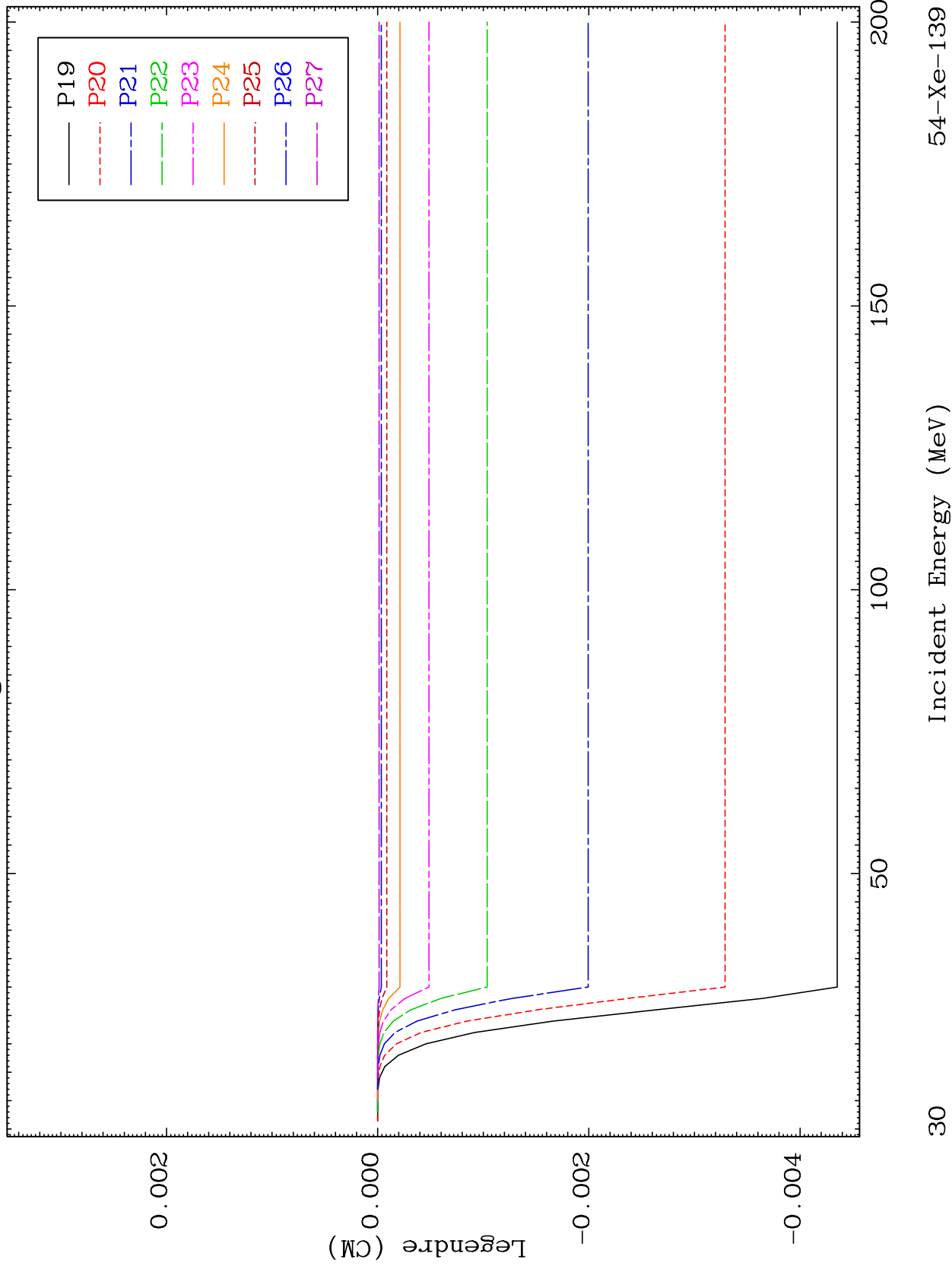
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



30

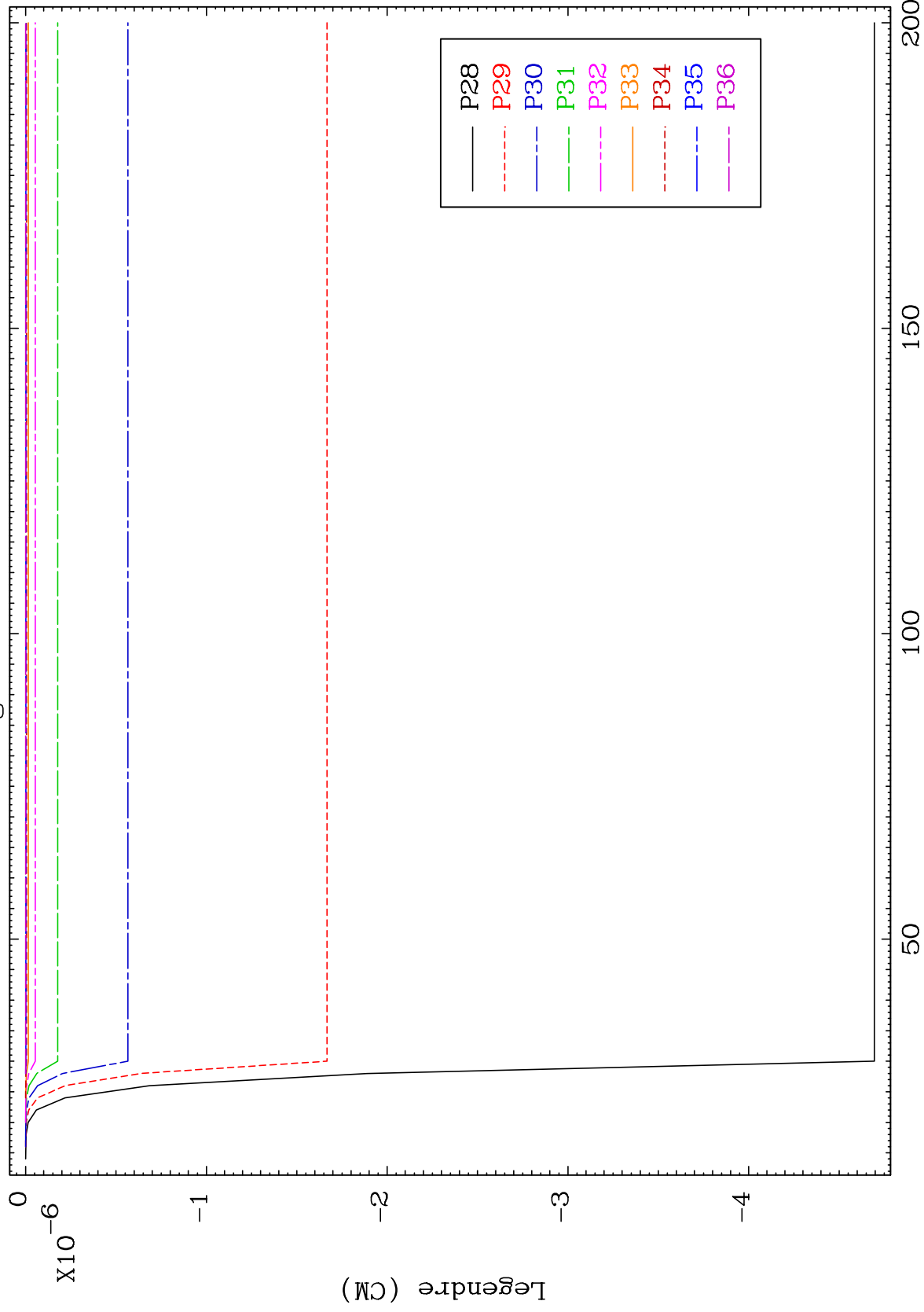
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

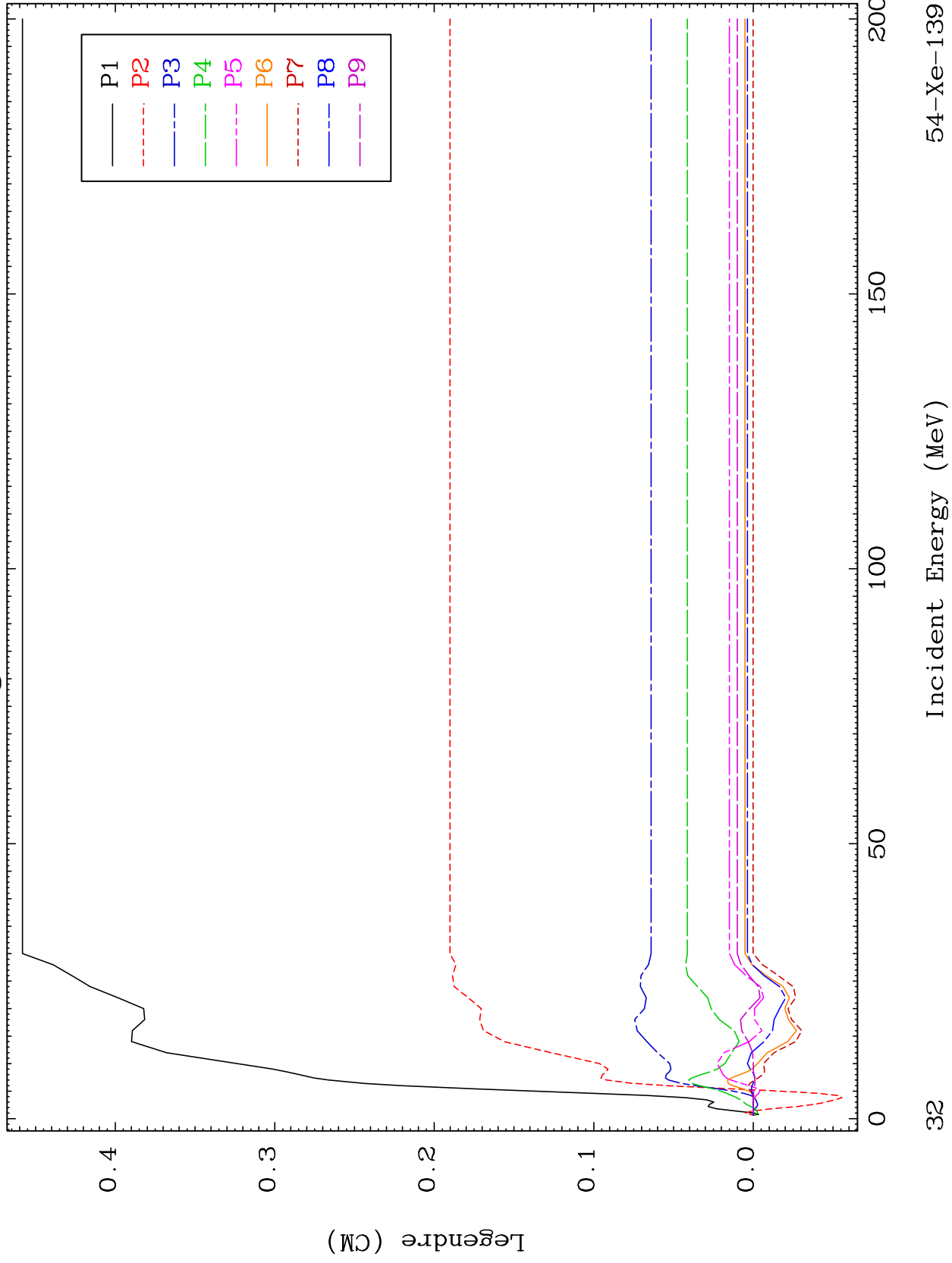
54-Xe-139



MAT 5470

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

54-Xe-139



54-Xe-139

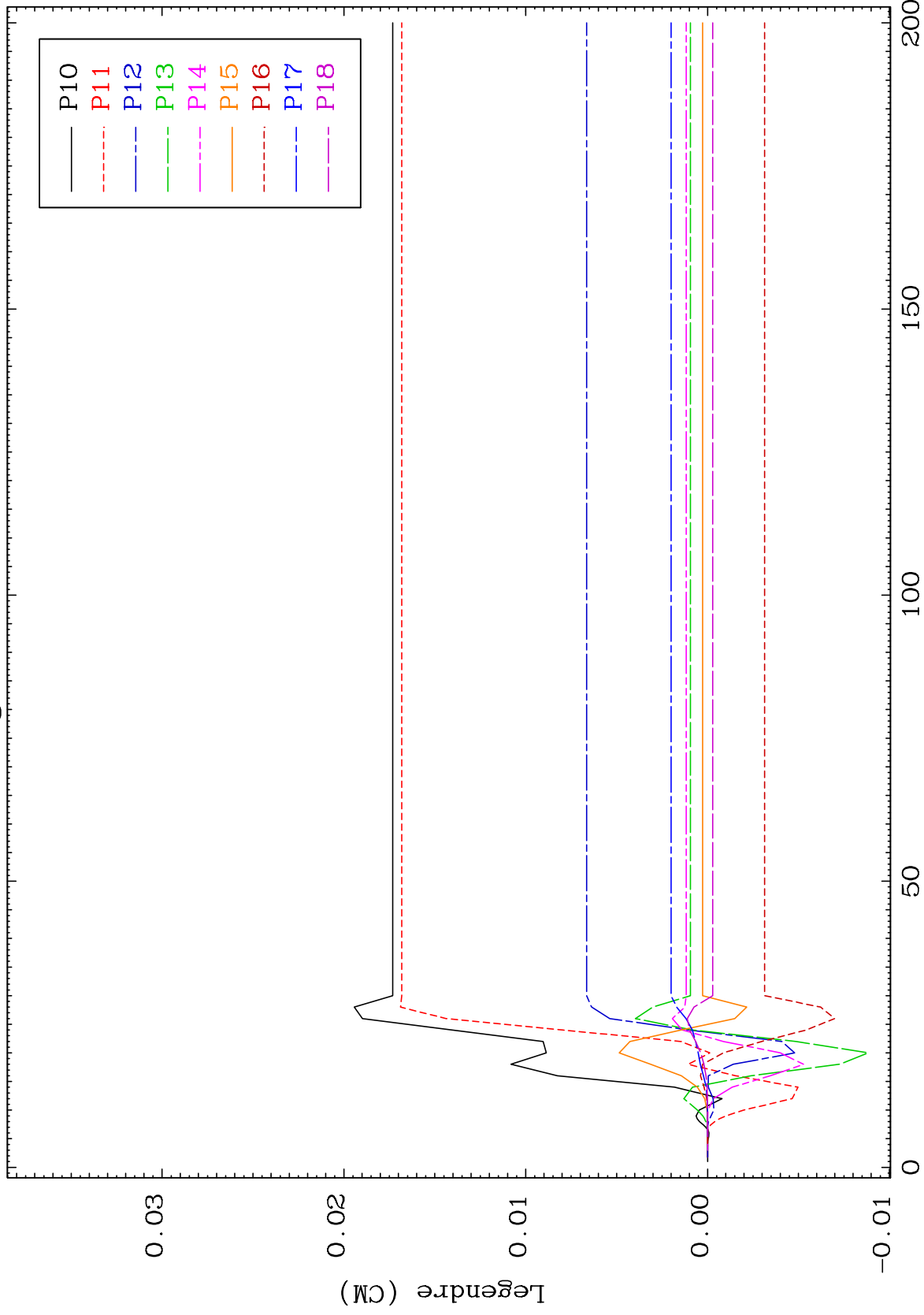
Incident Energy (MeV)

32

MAT 5470

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

54-Xe-139



33

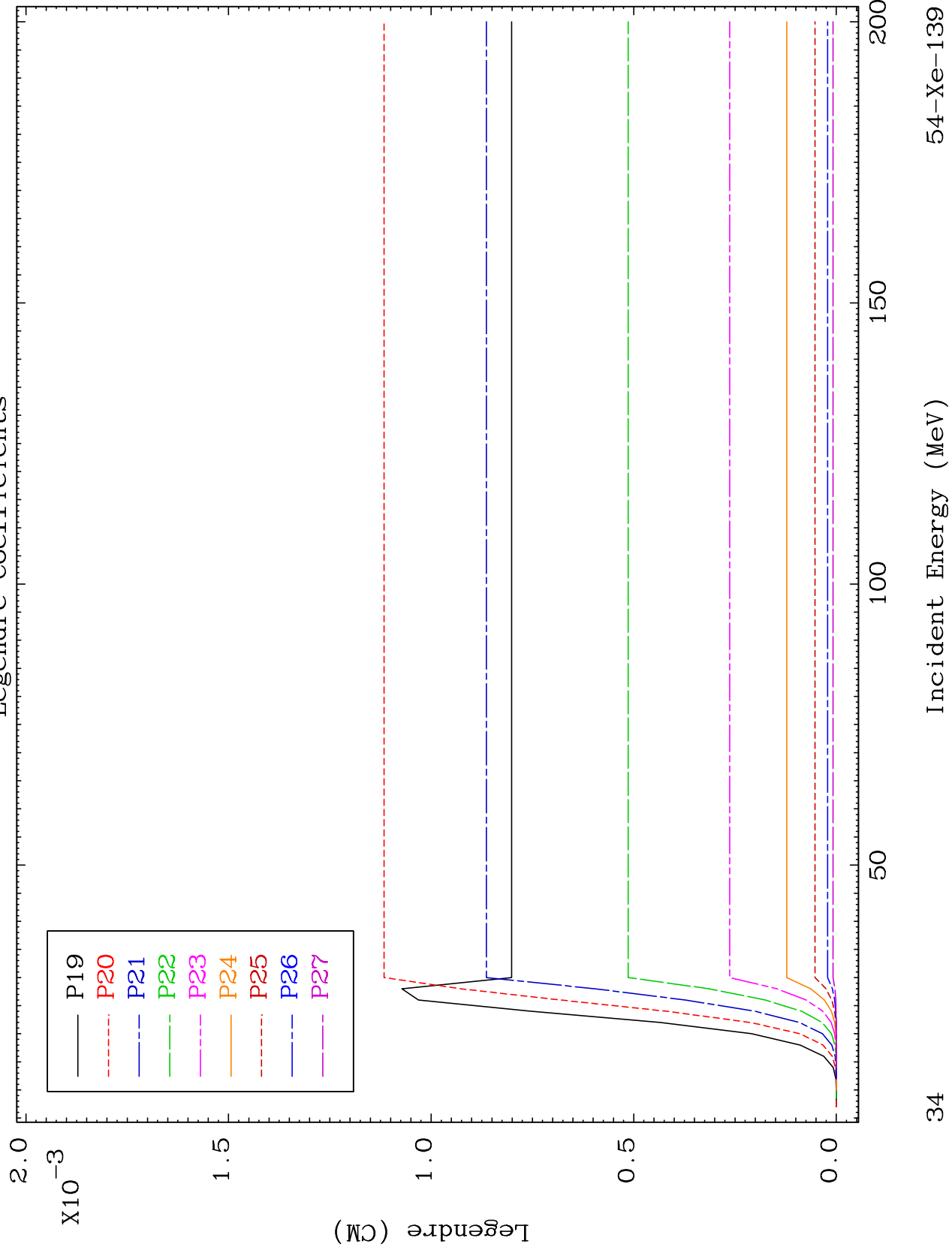
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

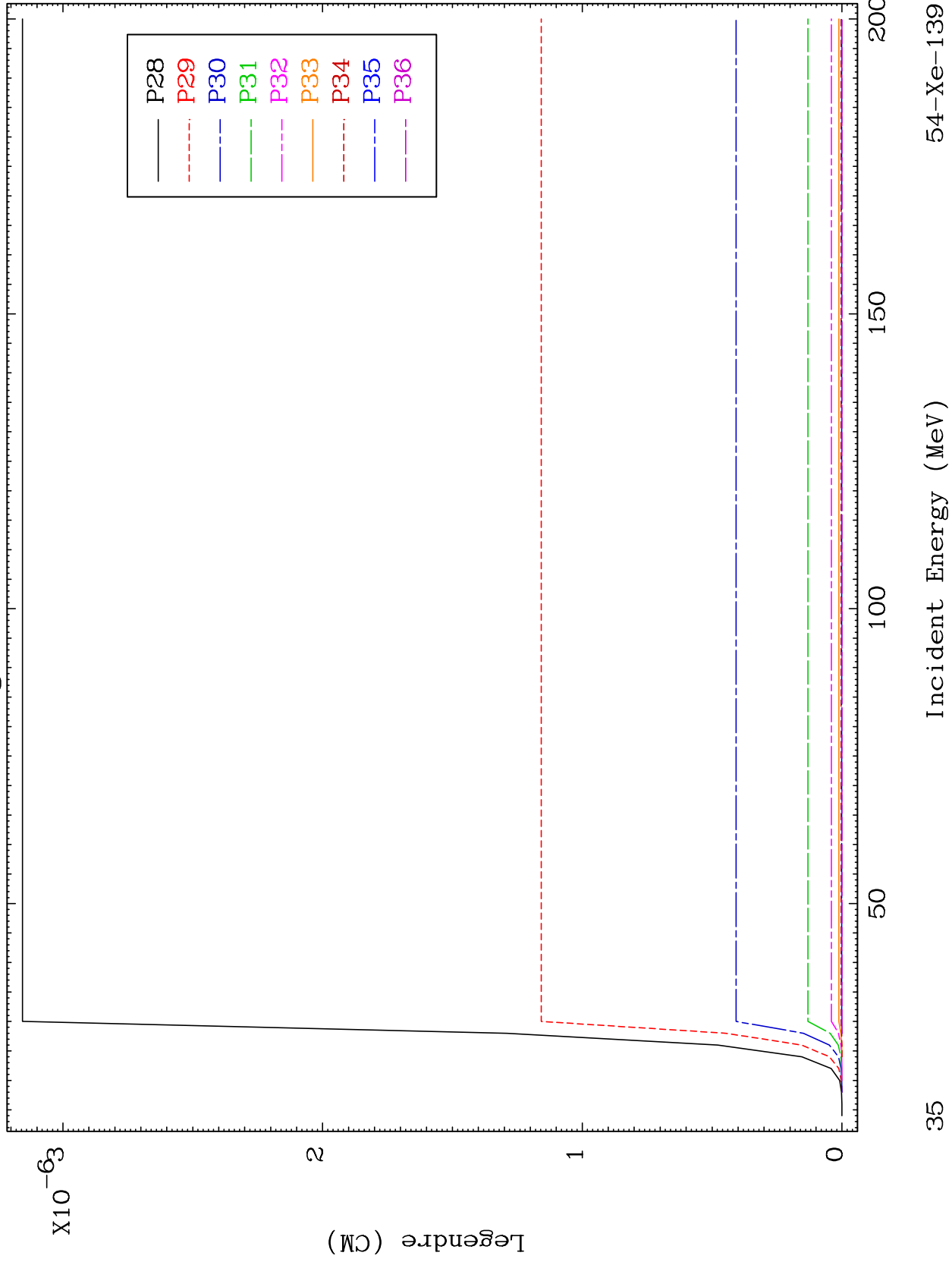
54-Xe-139



MAT 5470

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

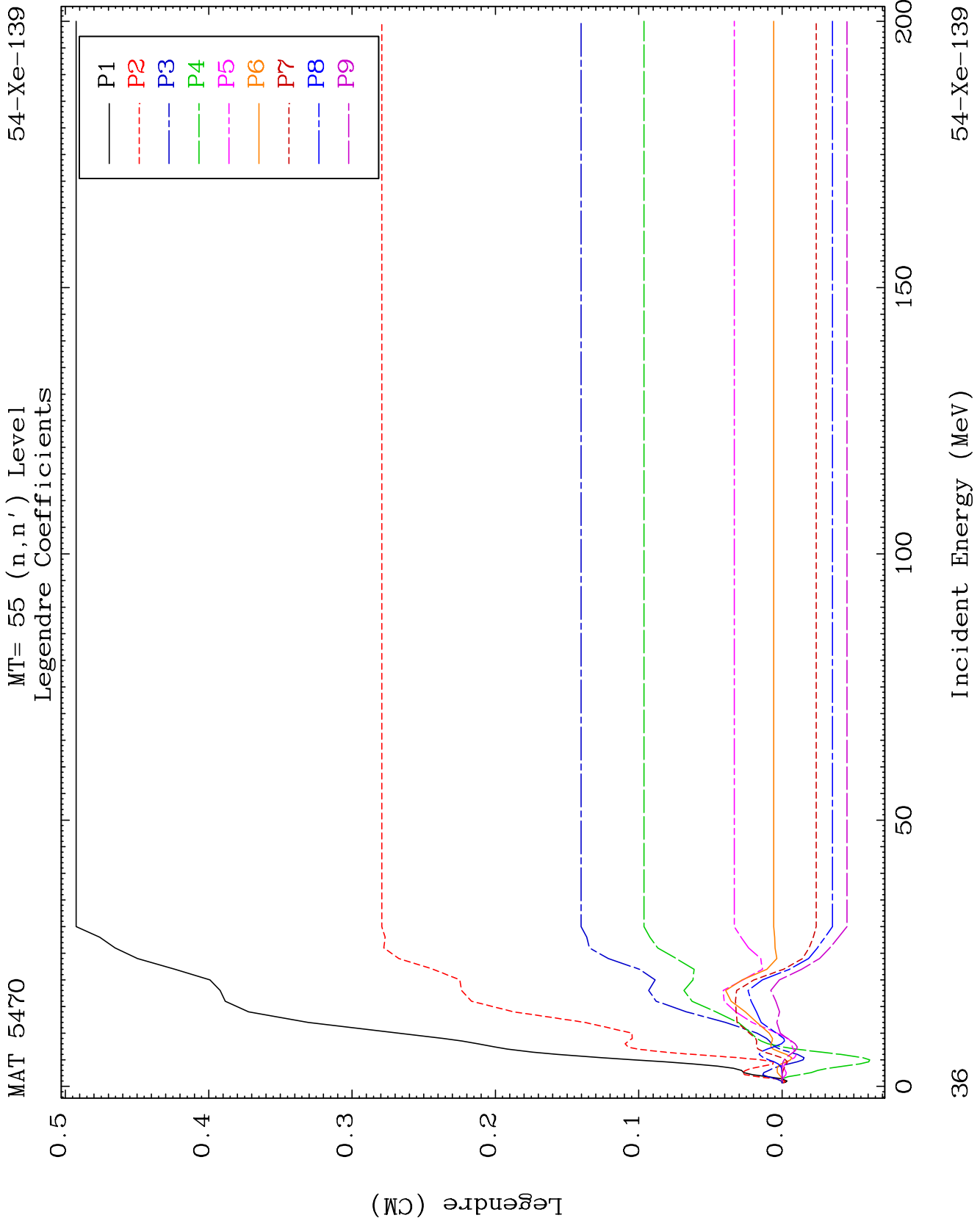
54-Xe-139



54-Xe-139

Incident Energy (MeV)

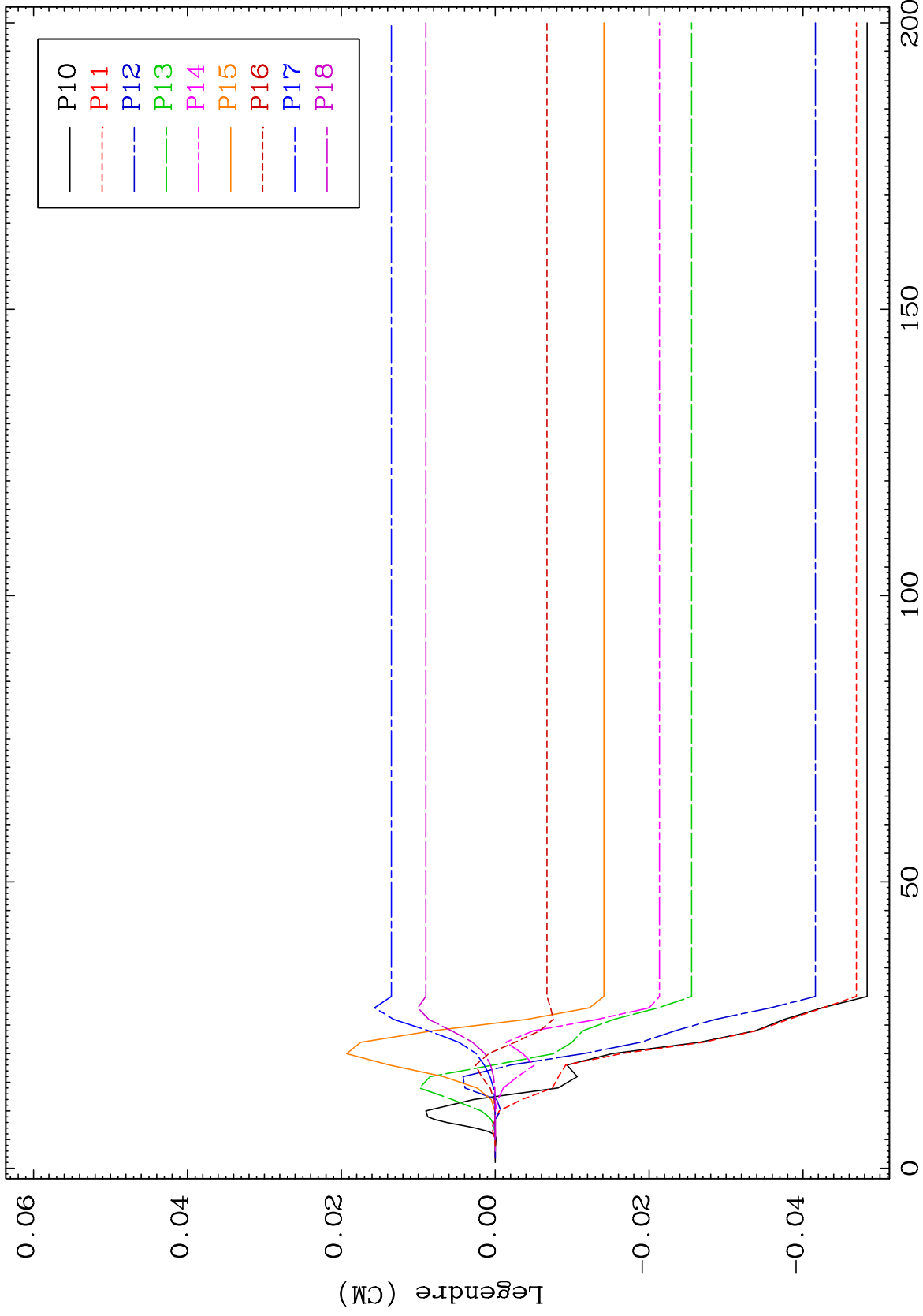
35



MAT 5470

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

54-Xe-139



37

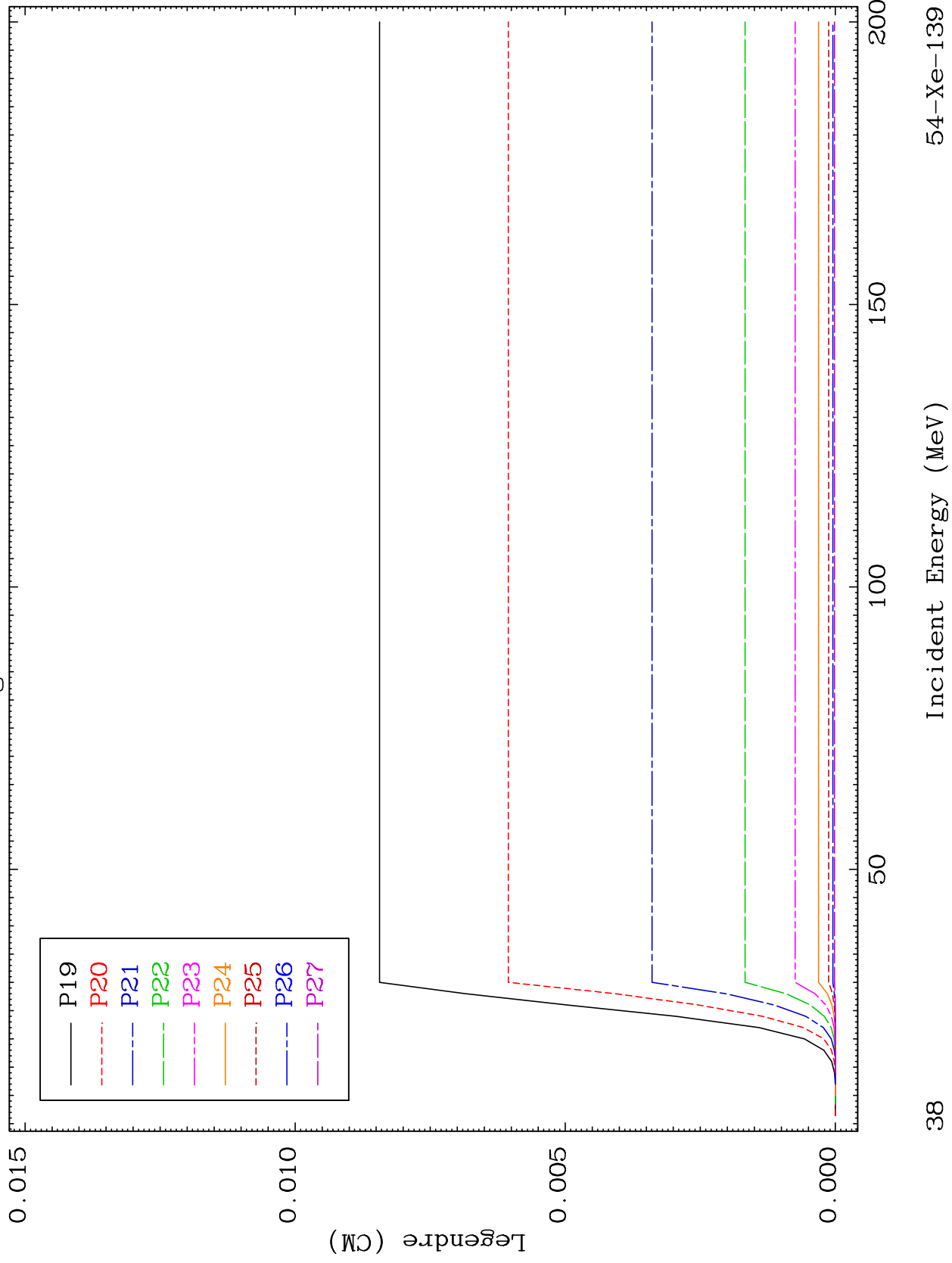
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



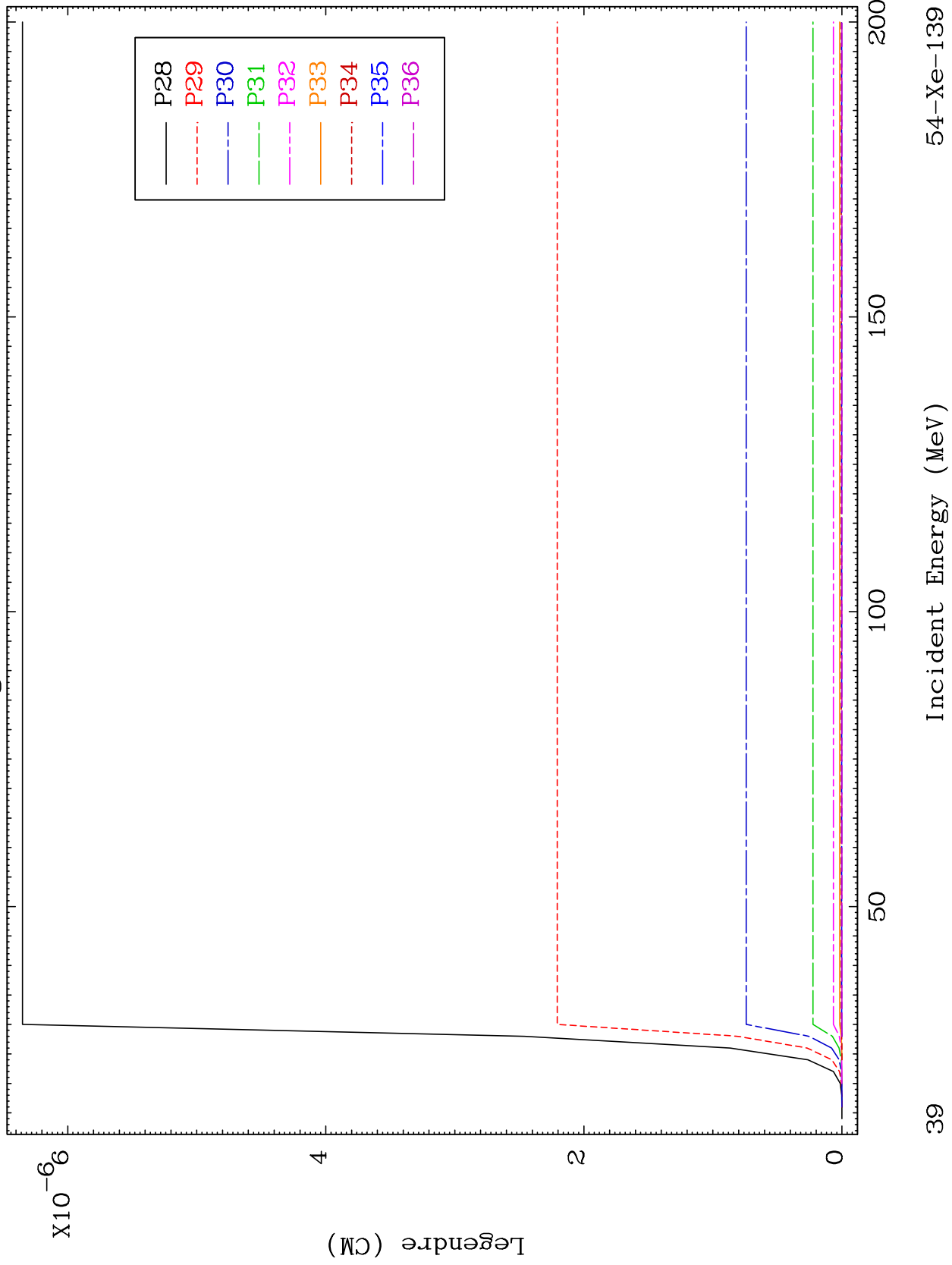
38

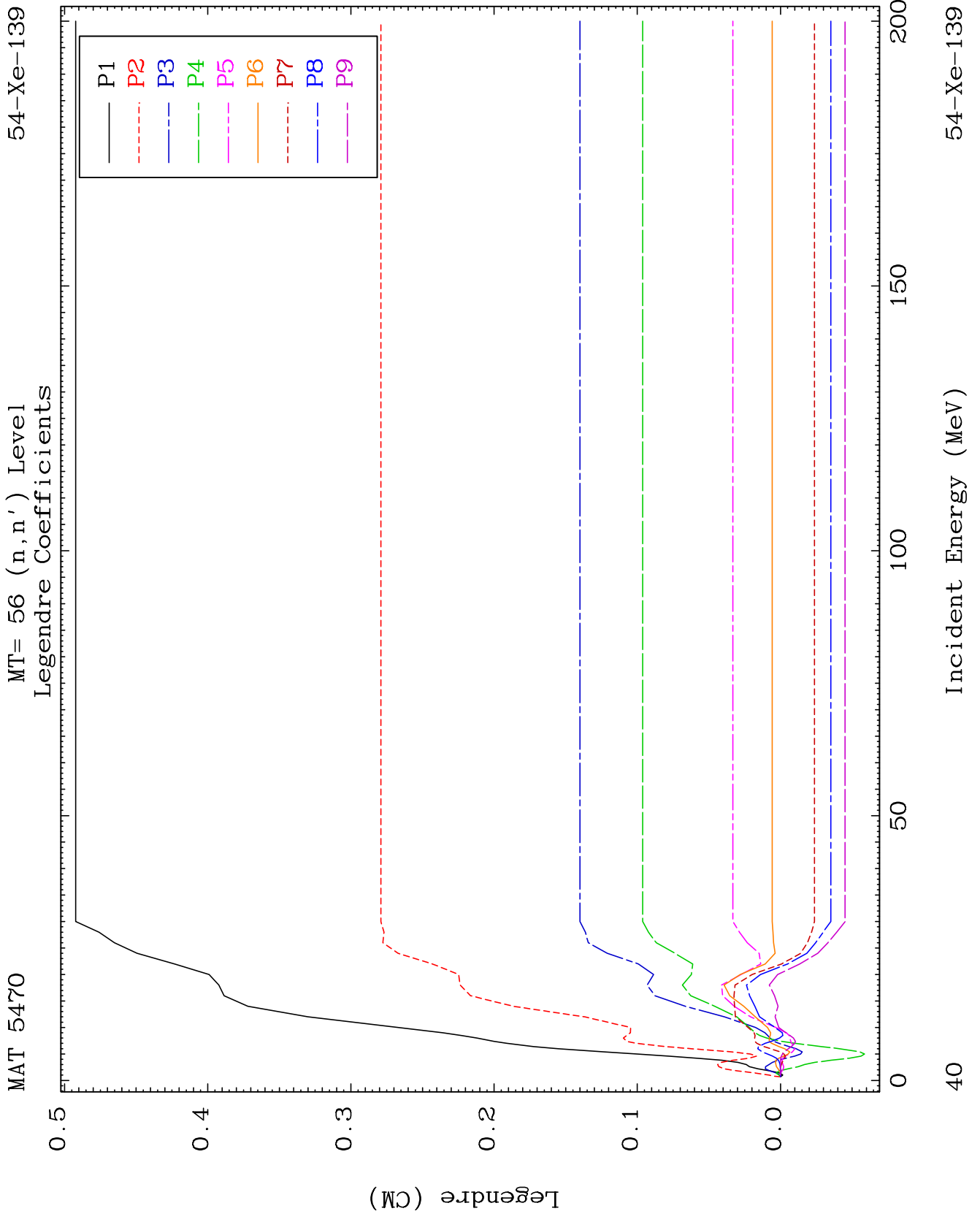
54-Xe-139

MAT 5470

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

54-Xe-139

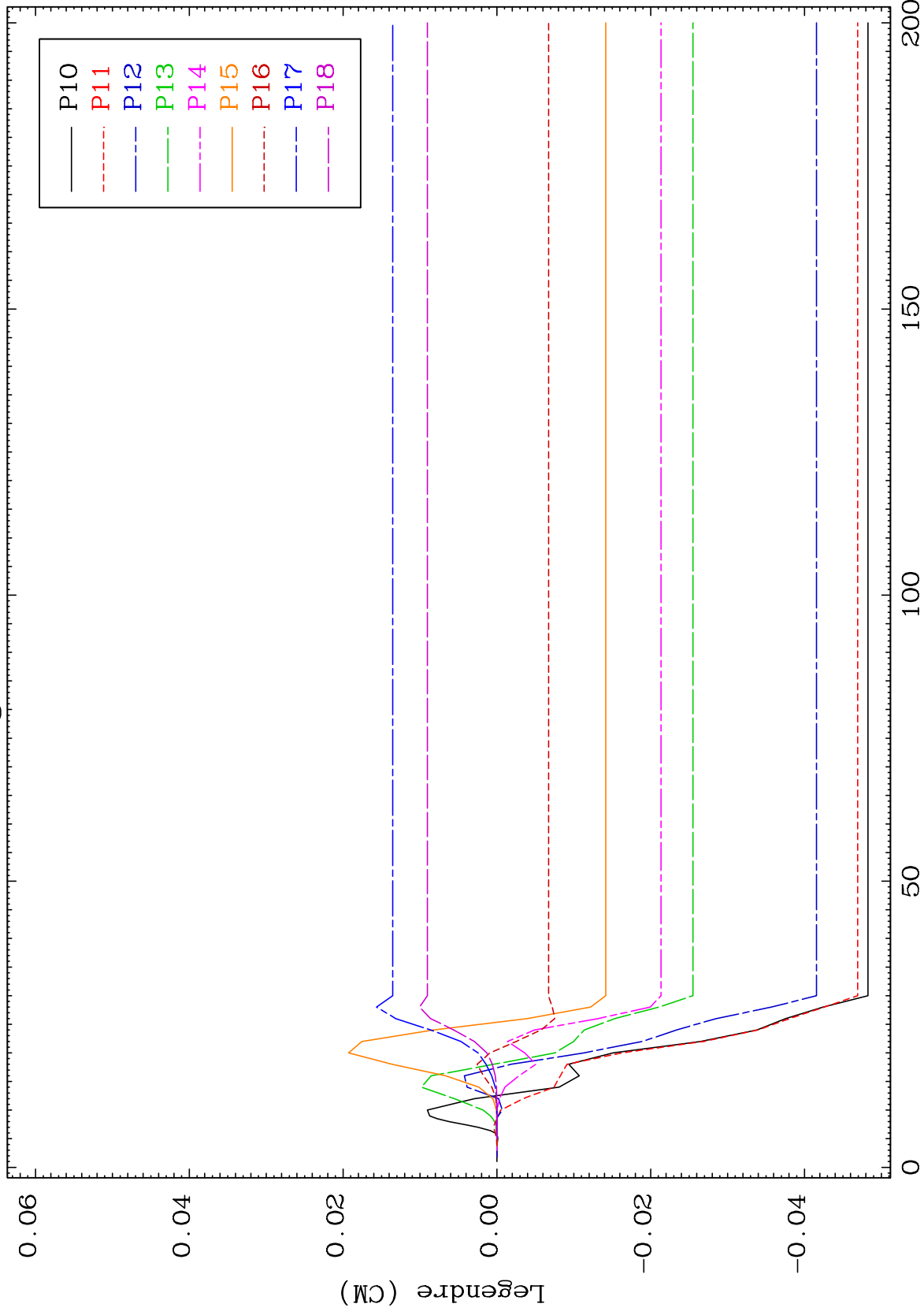




MAT 5470

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

54-Xe-139



41

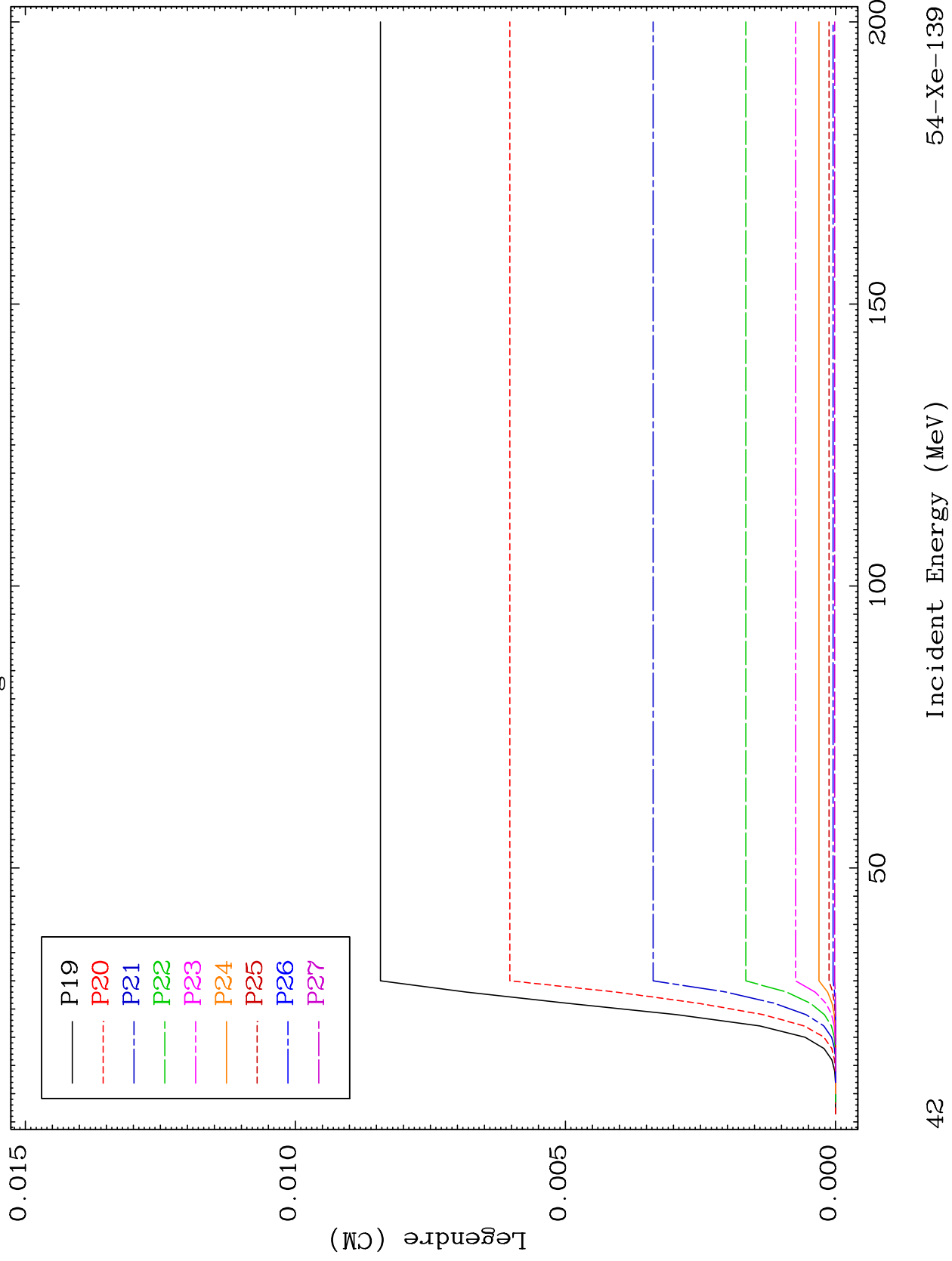
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



42

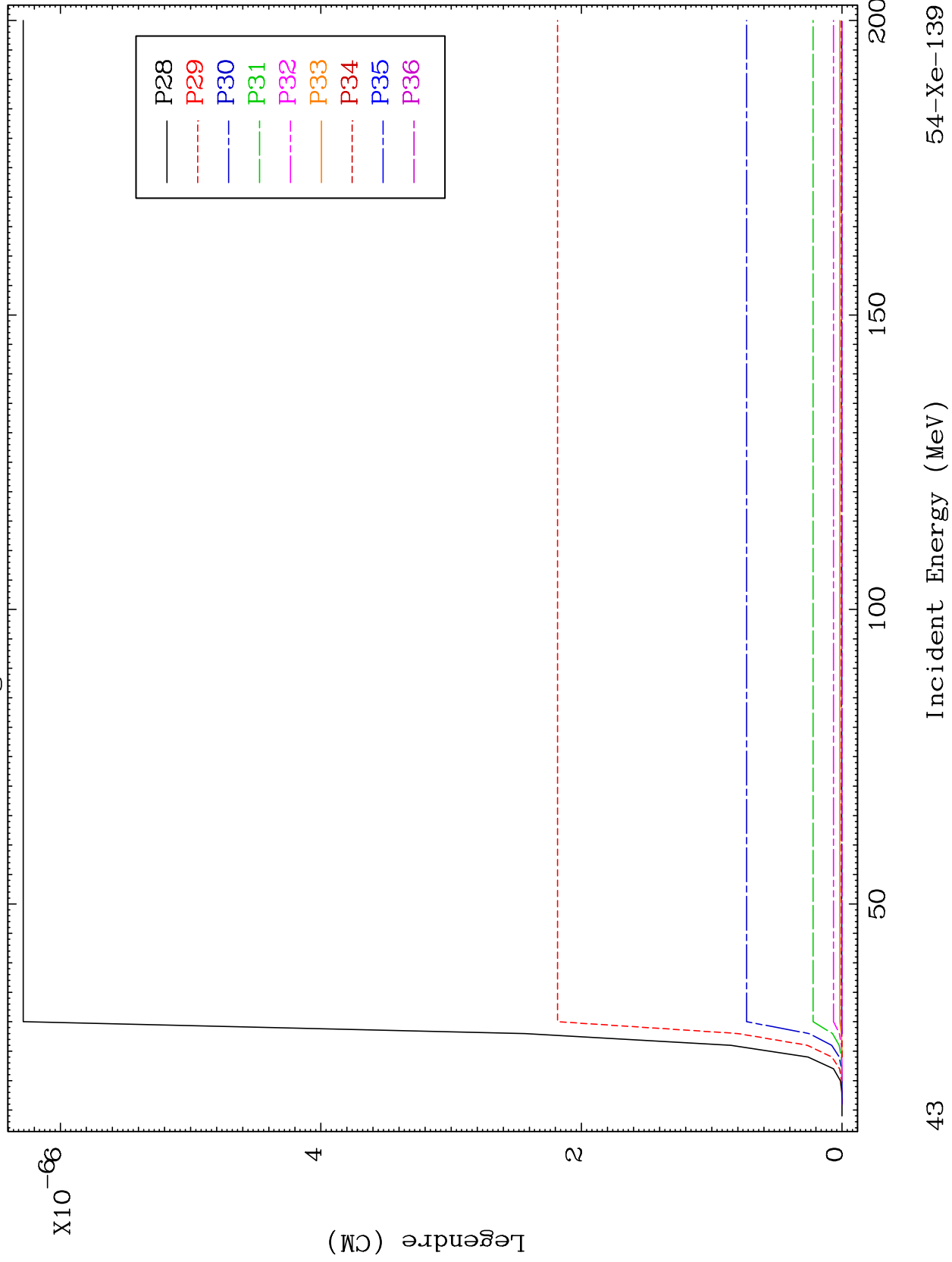
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

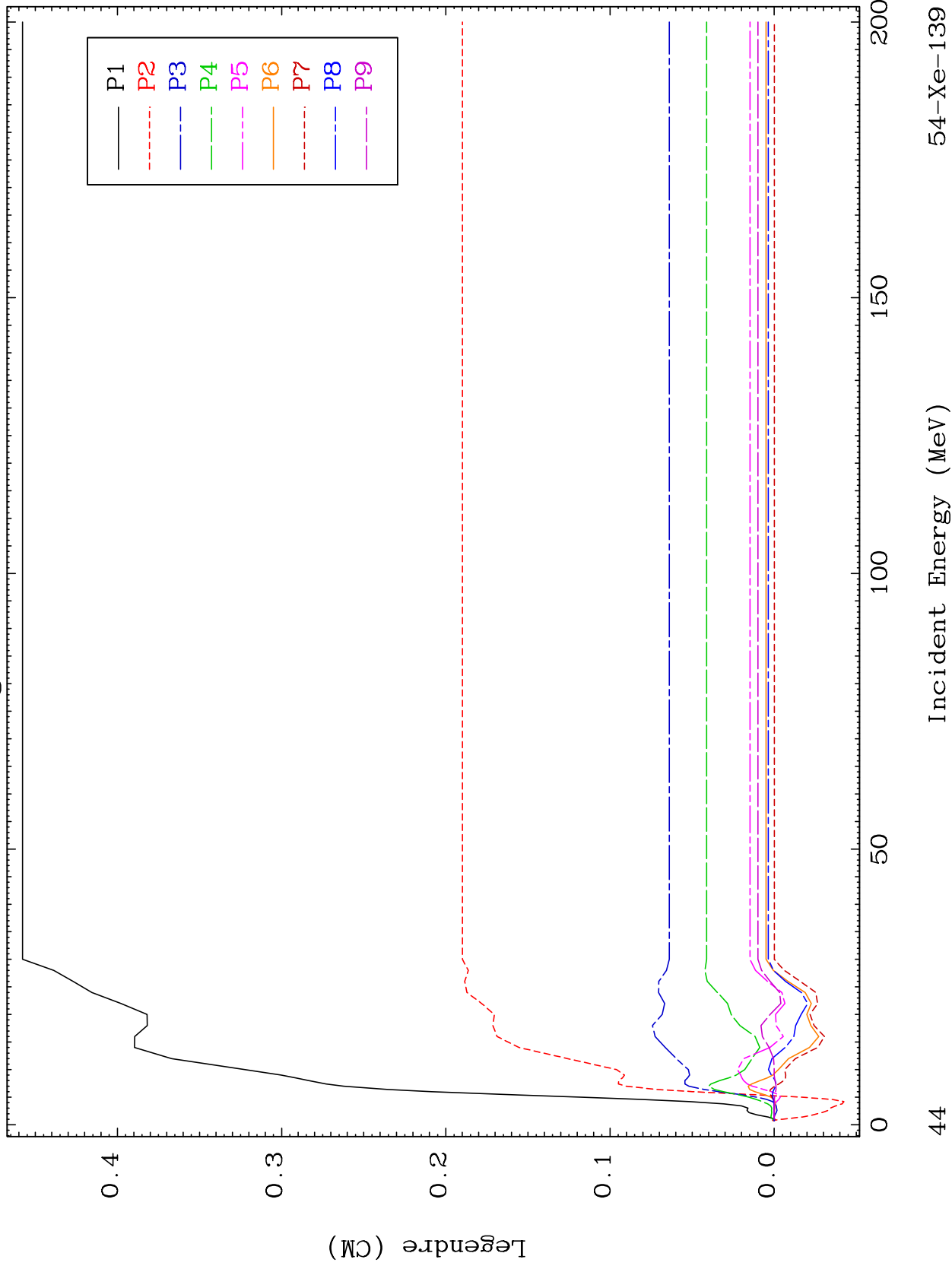
54-Xe-139



MAT 5470

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

54-Xe-139



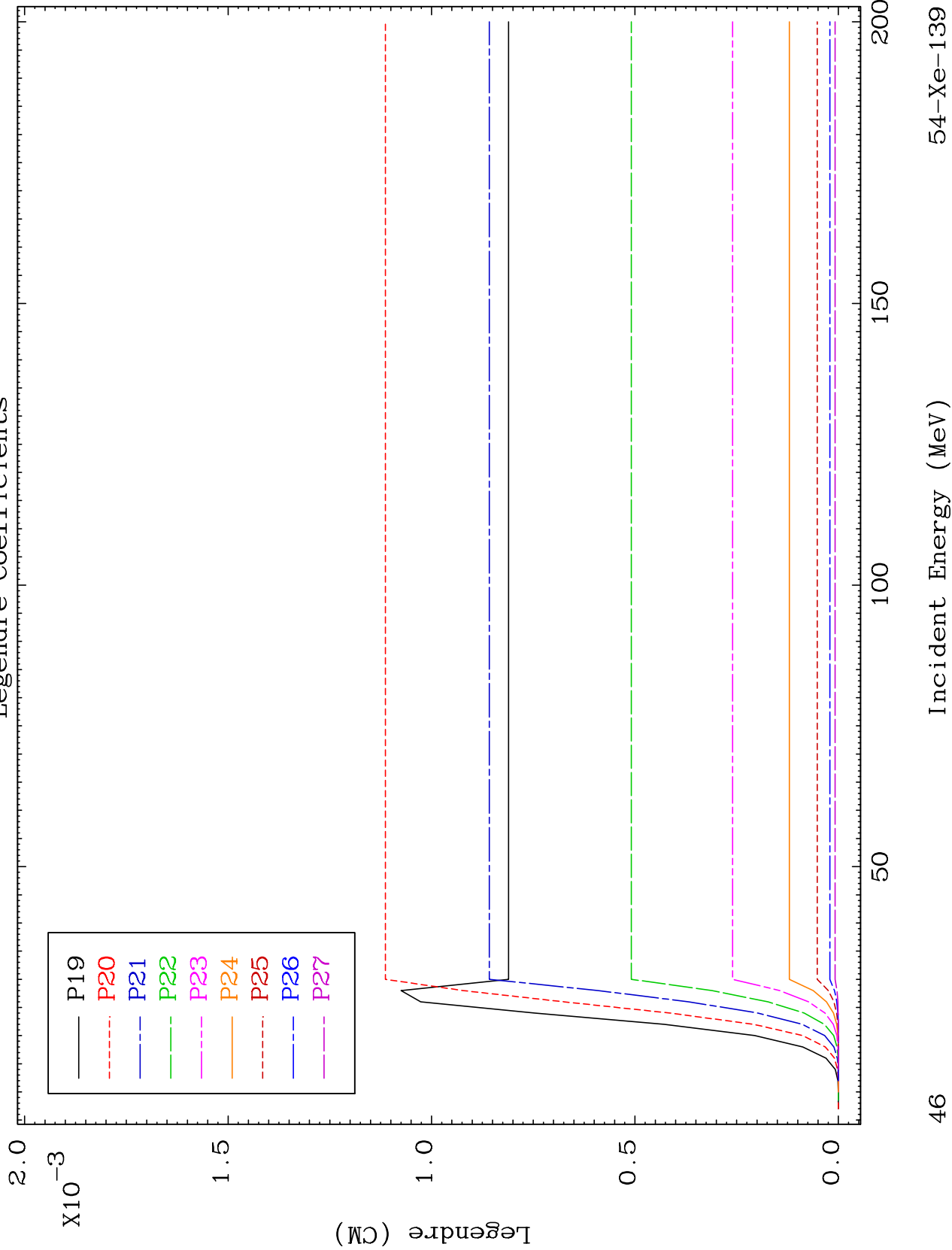
44

54-Xe-139

MAT 5470

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

54-Xe-139



46

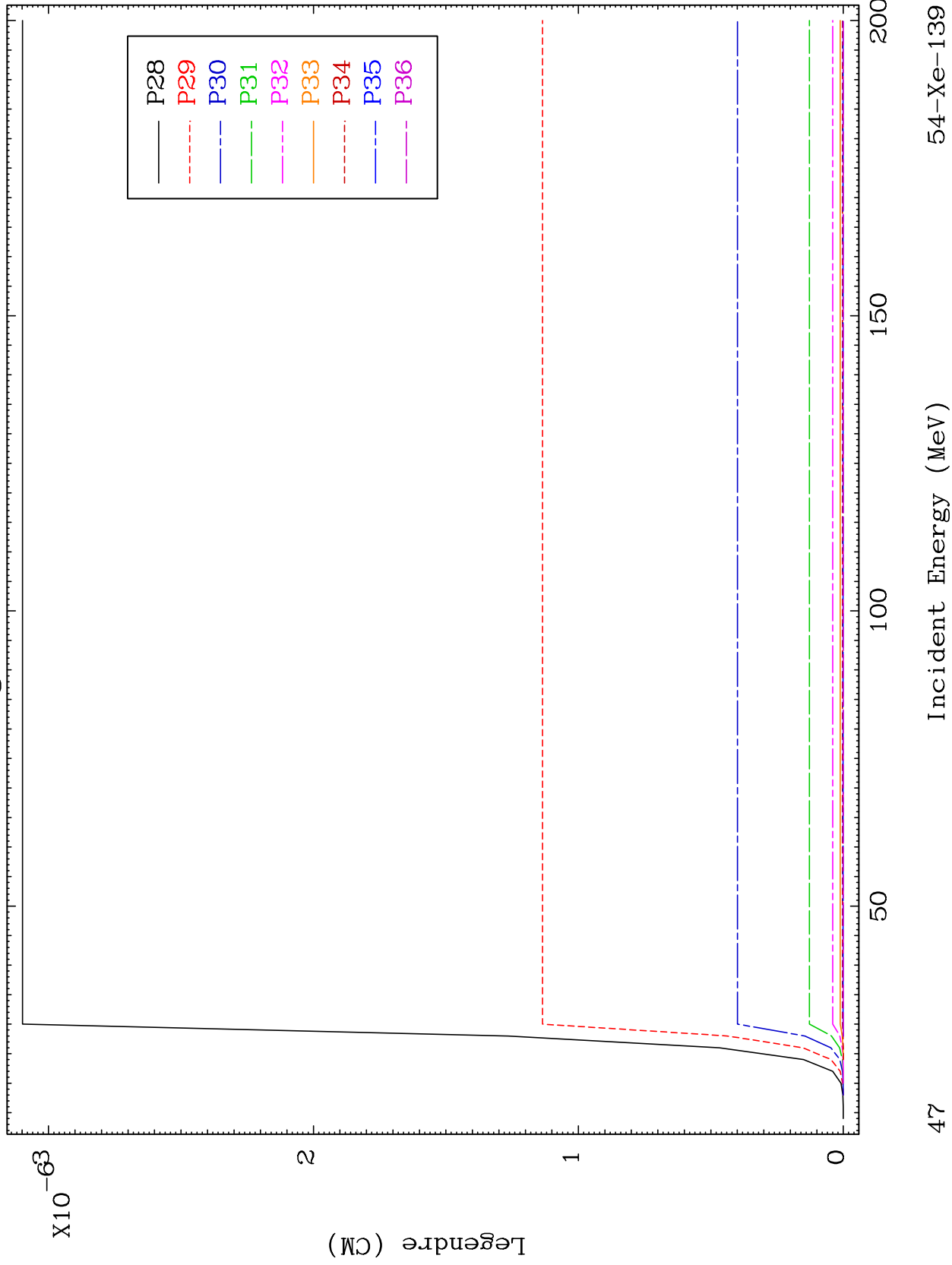
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

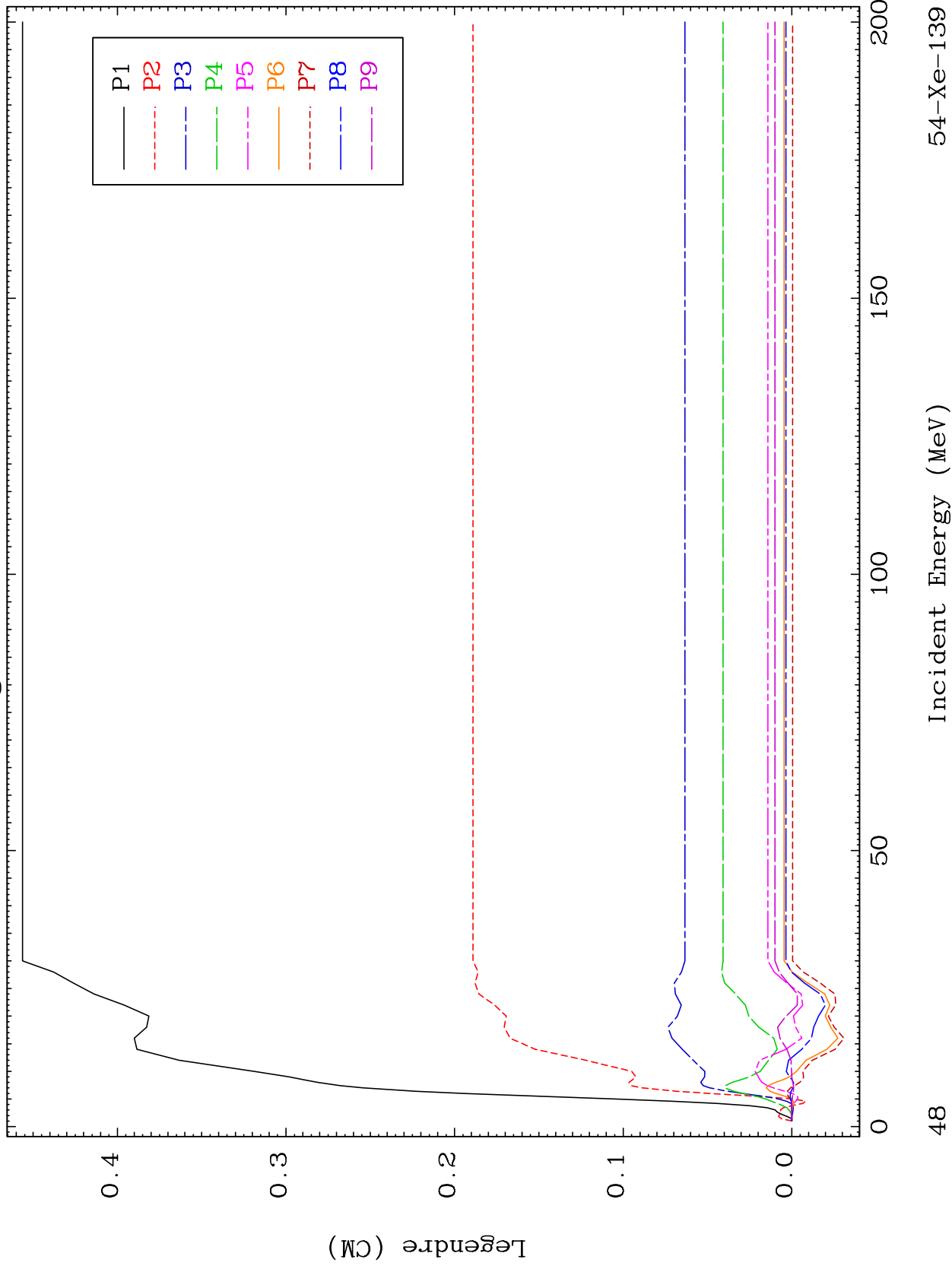
54-Xe-139



MAT 5470

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

54-Xe-139



54-Xe-139

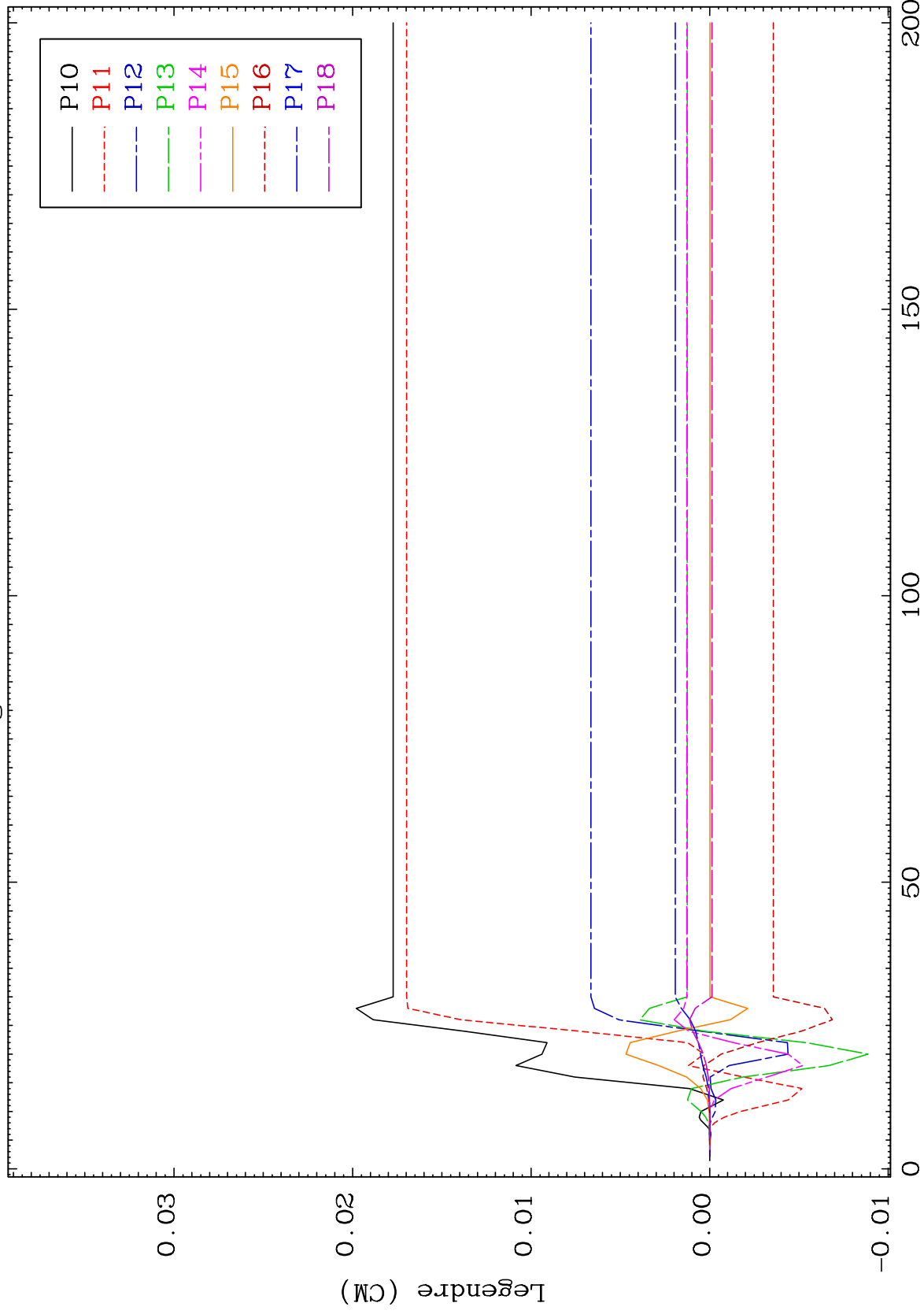
Incident Energy (MeV)

48

MAT 5470

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

54-Xe-139



49

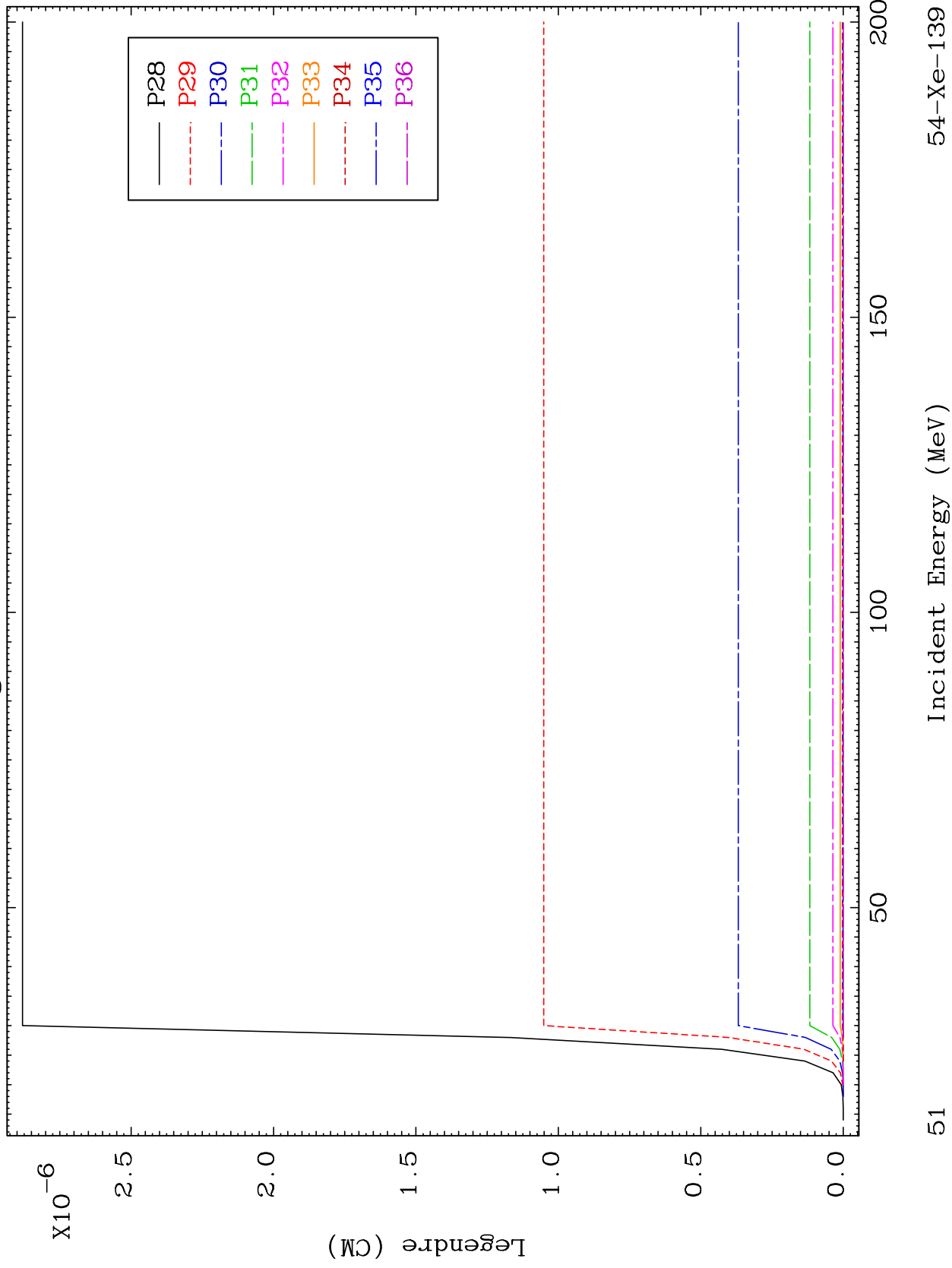
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



51

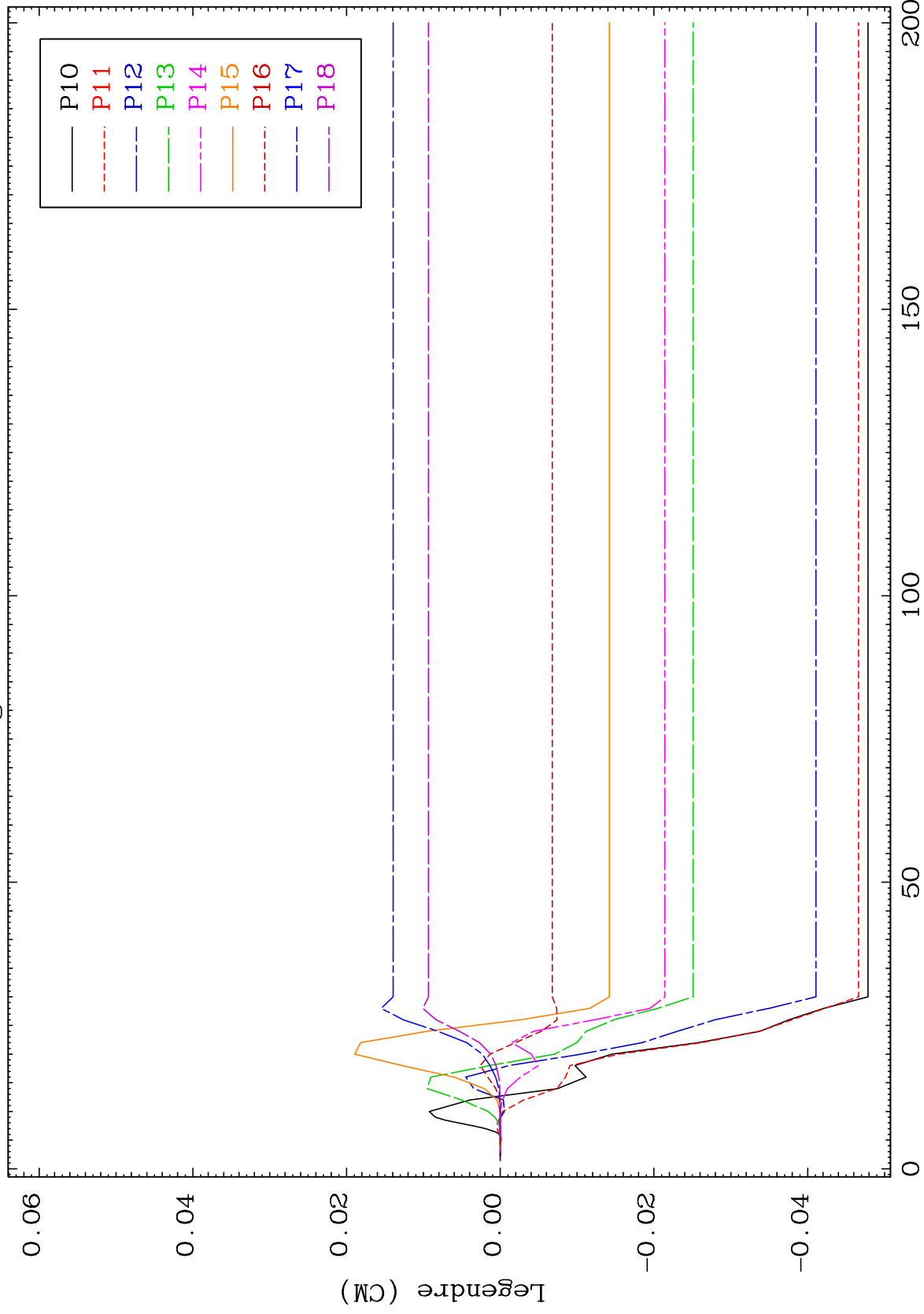
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



53

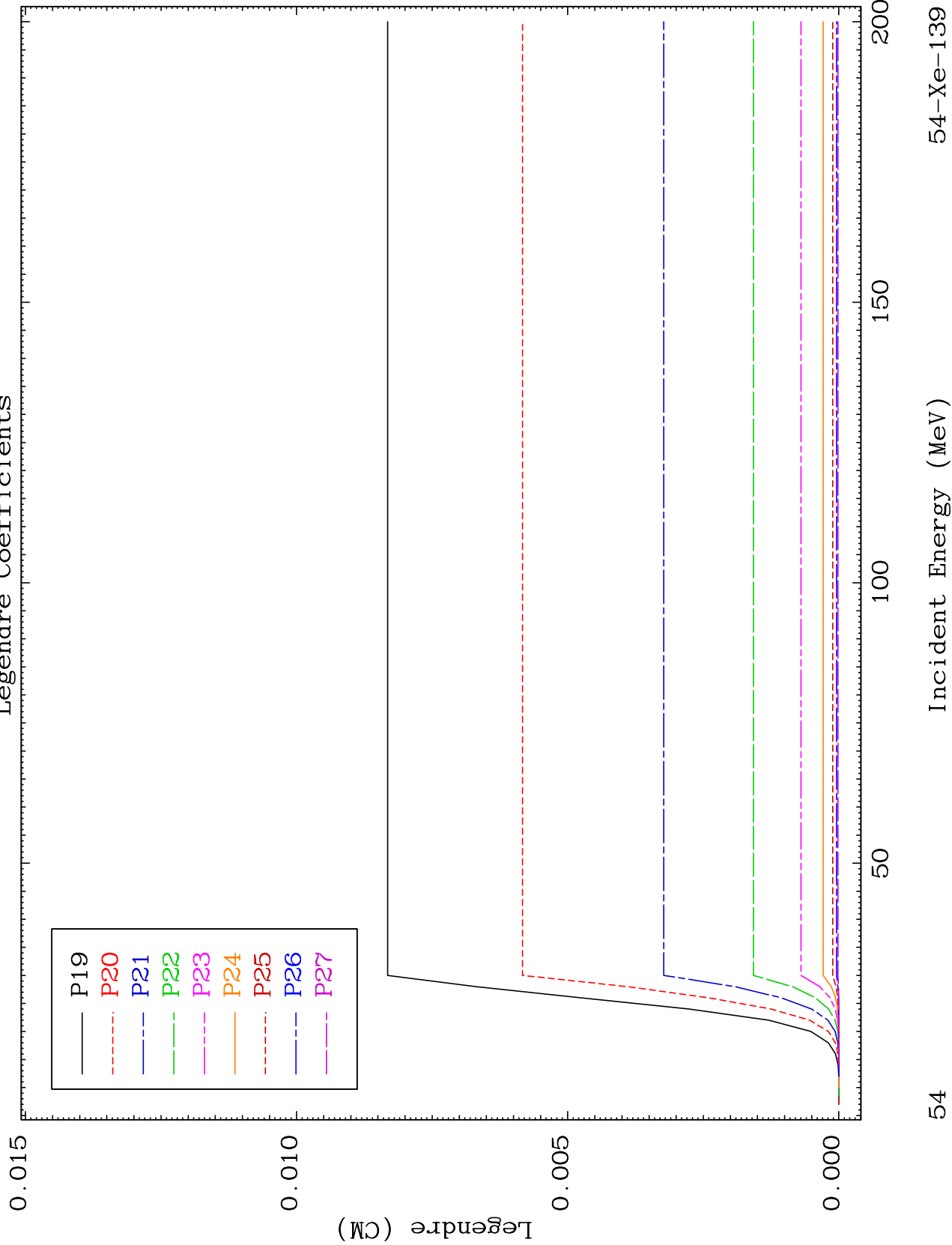
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



54

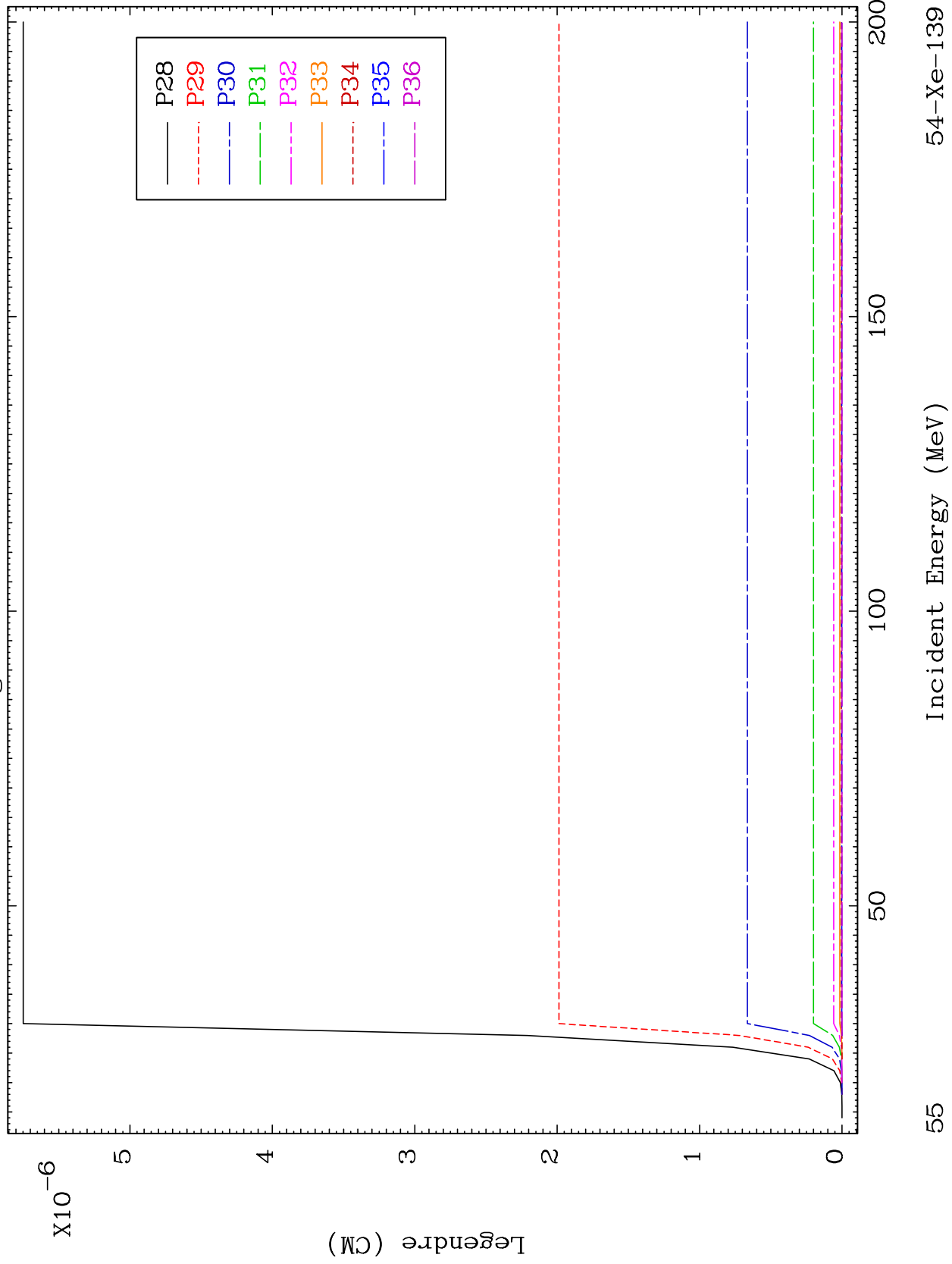
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



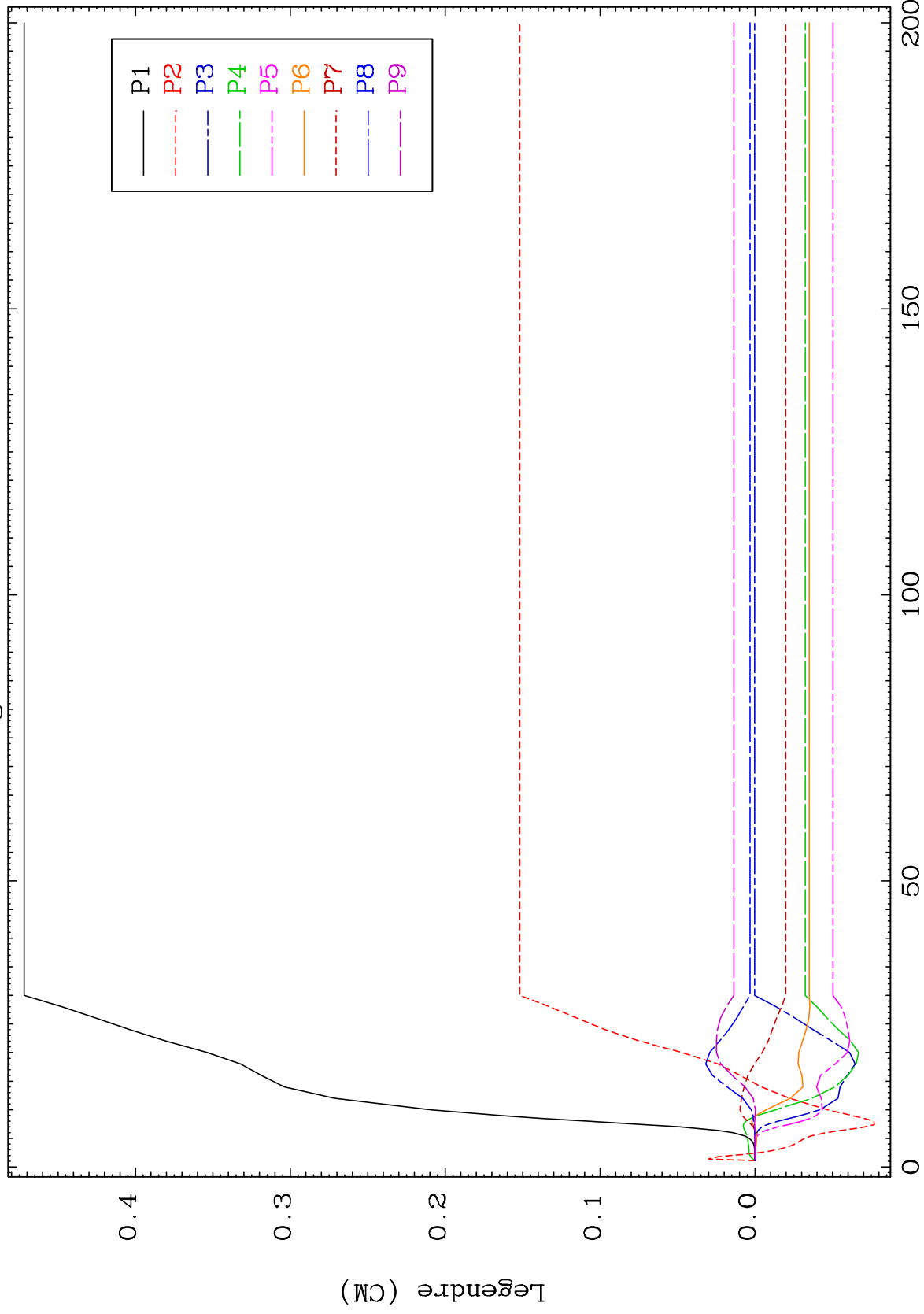
55

54-Xe-139

MAT 5470

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

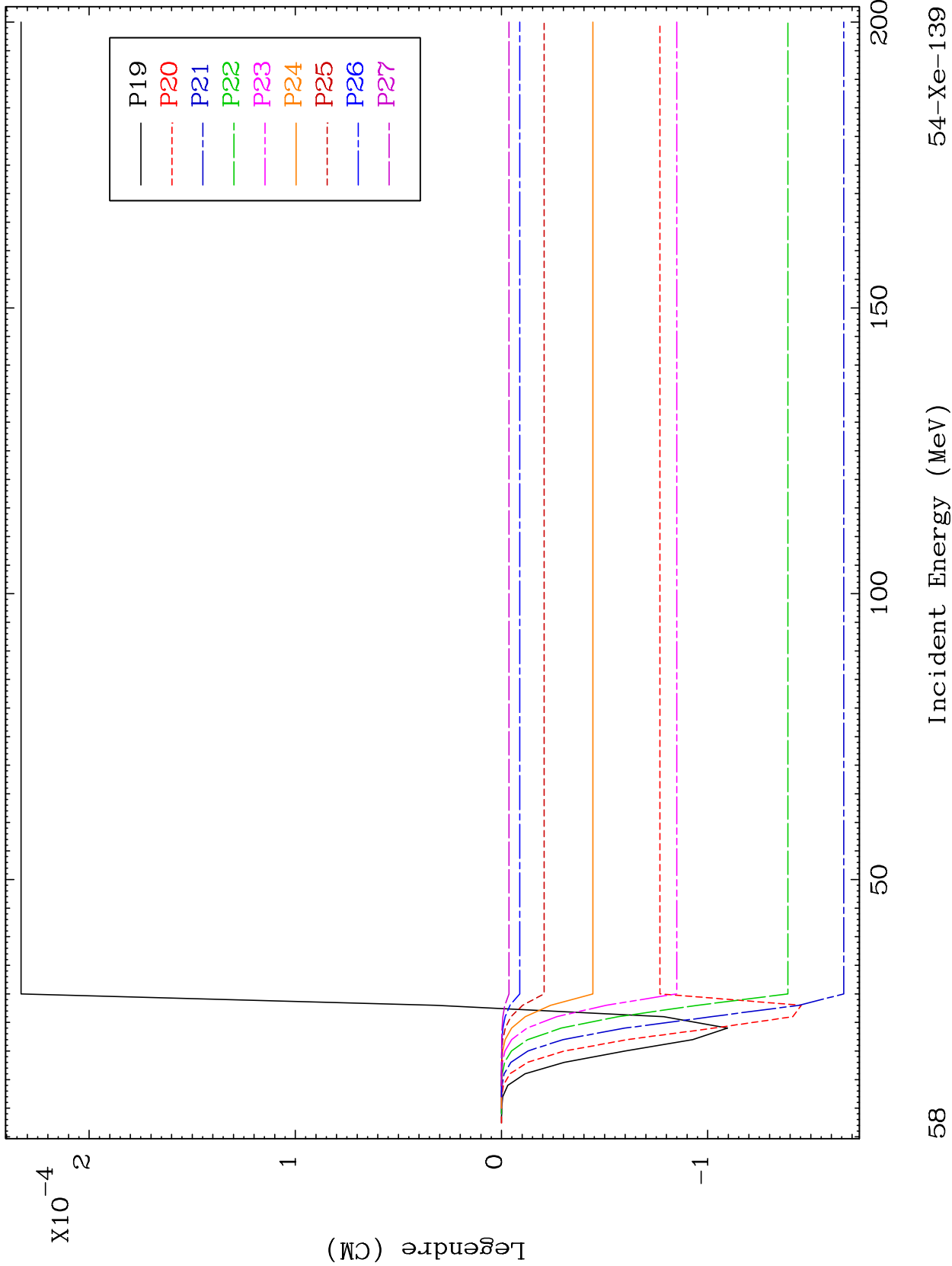
54-Xe-139

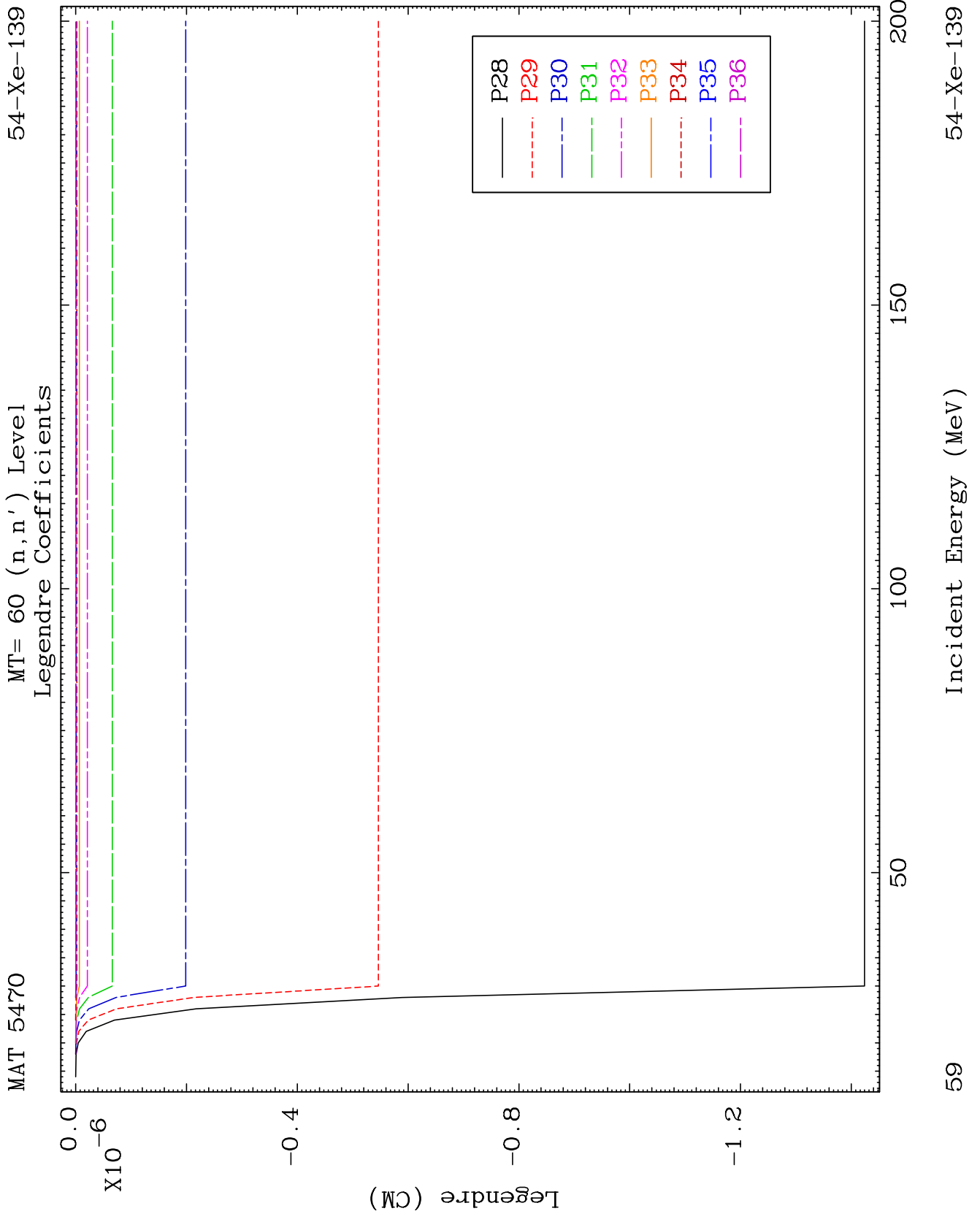


56

Incident Energy (MeV)

54-Xe-139

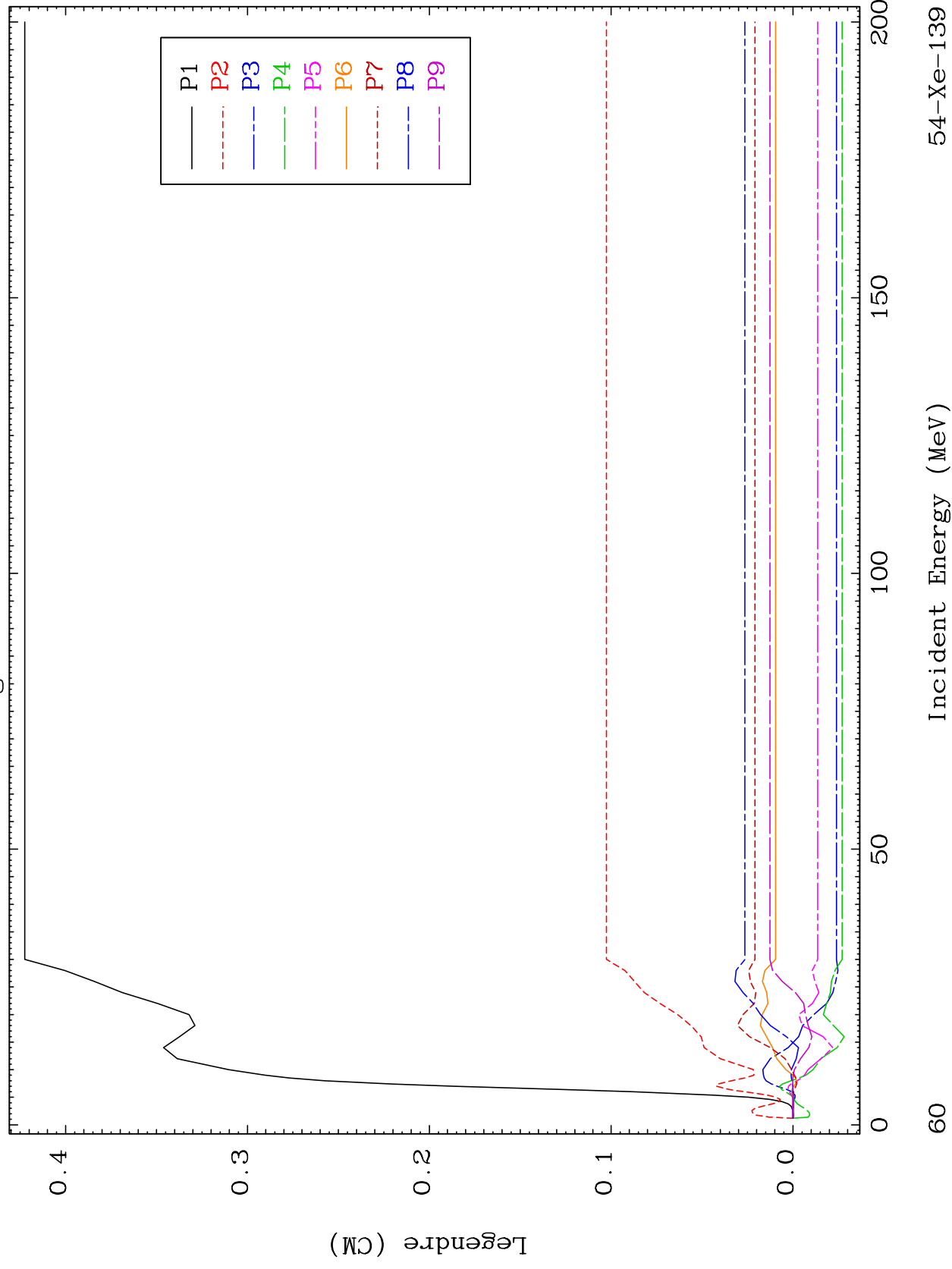




MAT 5470

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

54-Xe-139

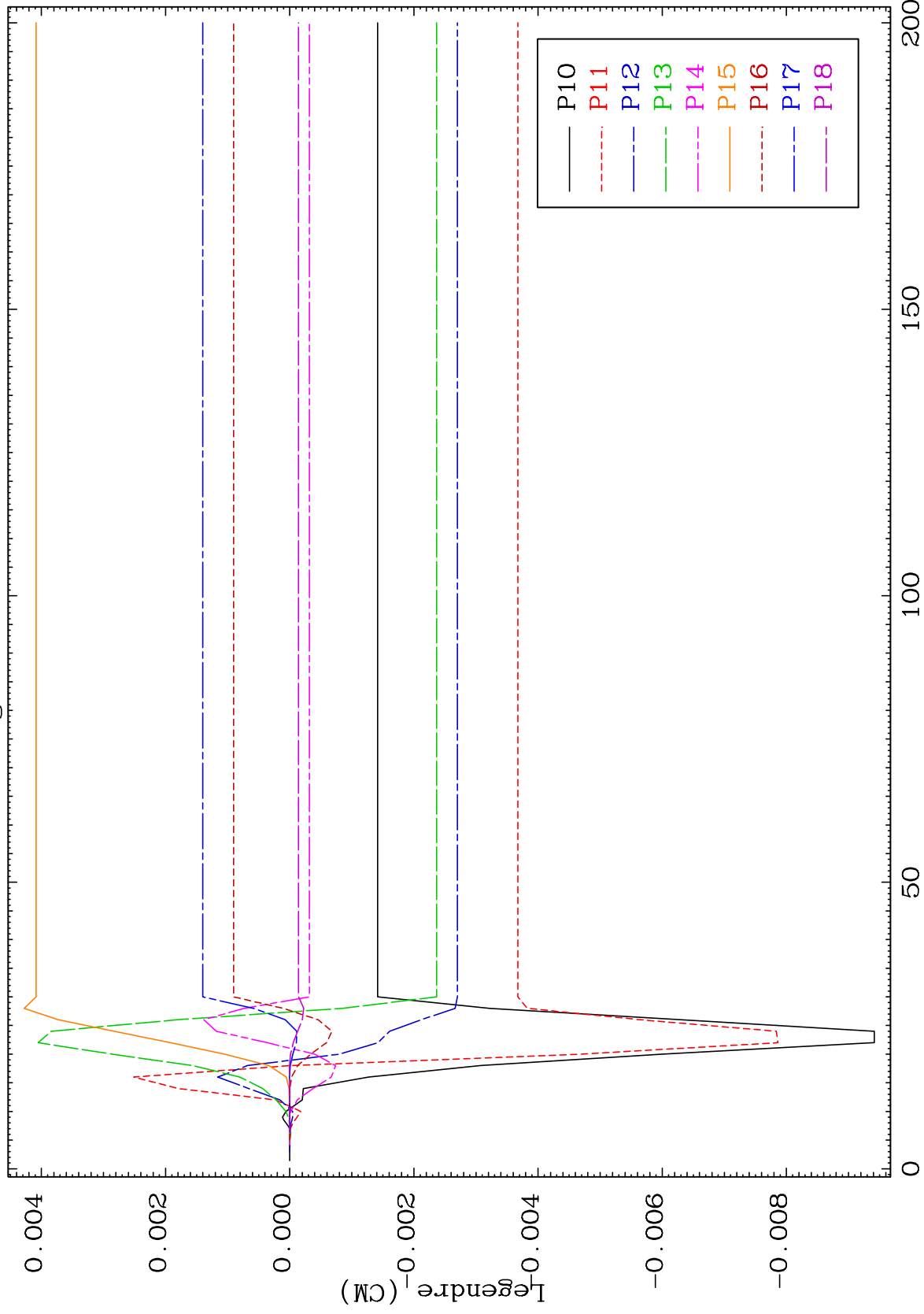


54-Xe-139

MAT 5470

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

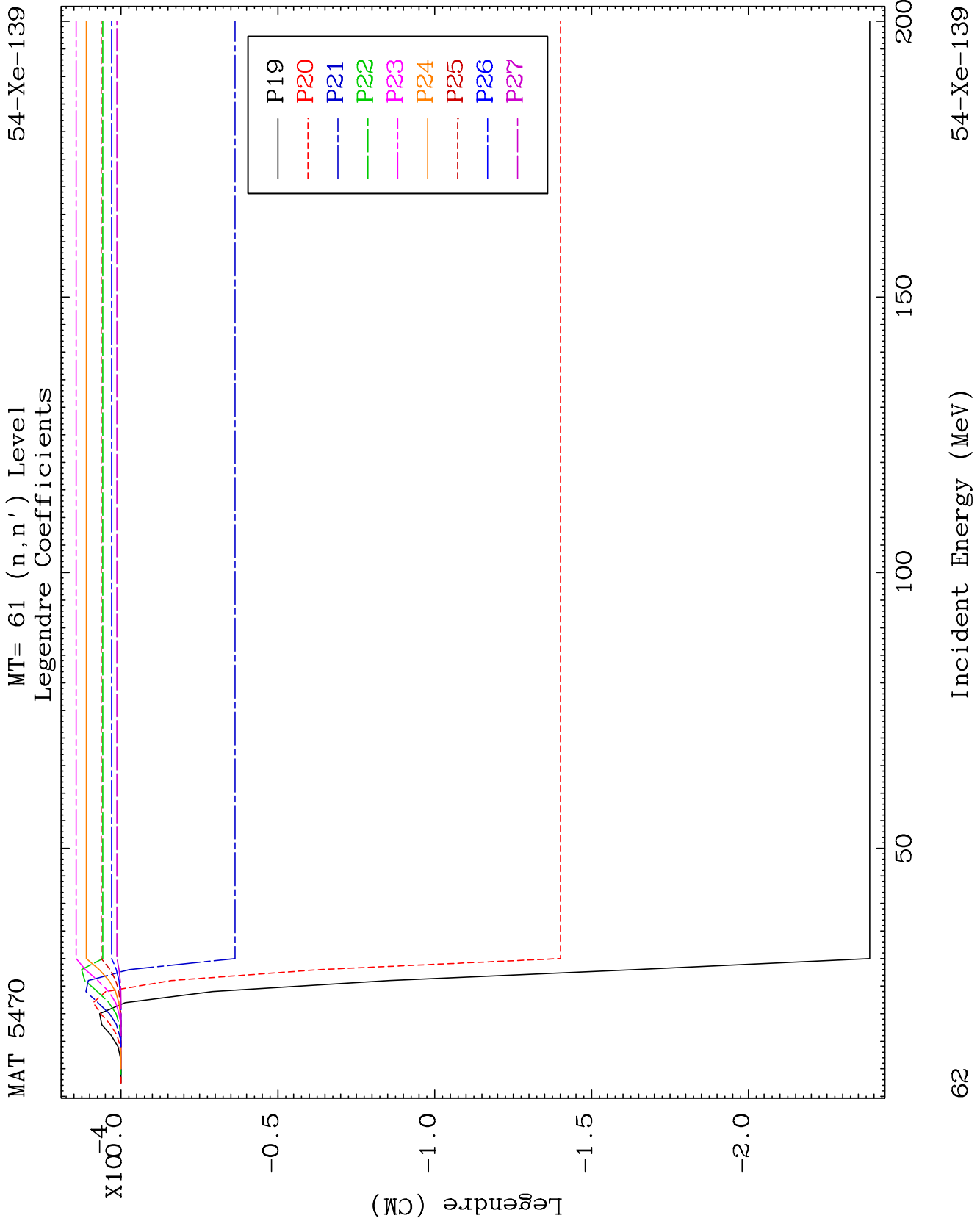
54-Xe-139



61

Incident Energy (MeV)

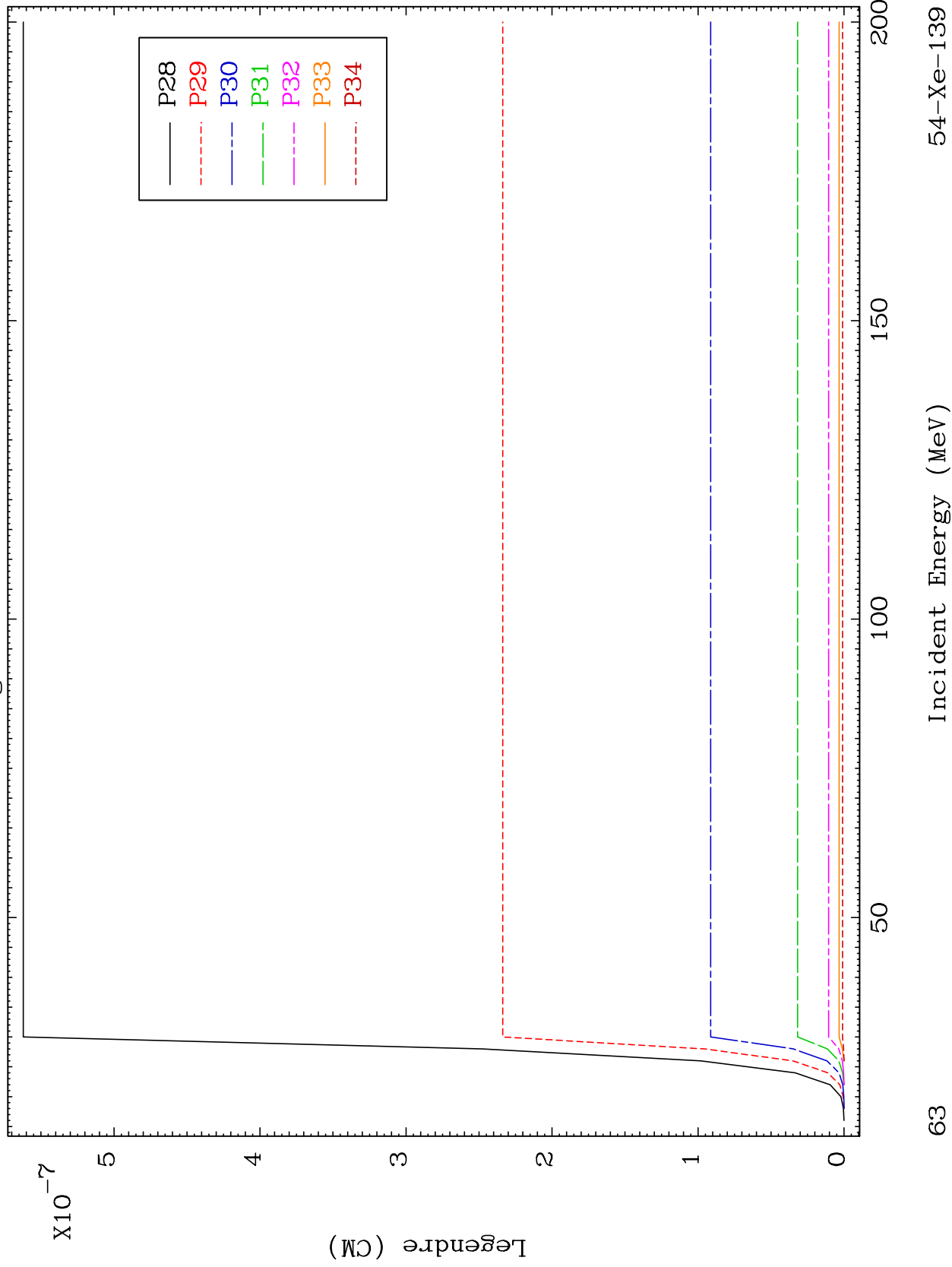
54-Xe-139



MAT 5470

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

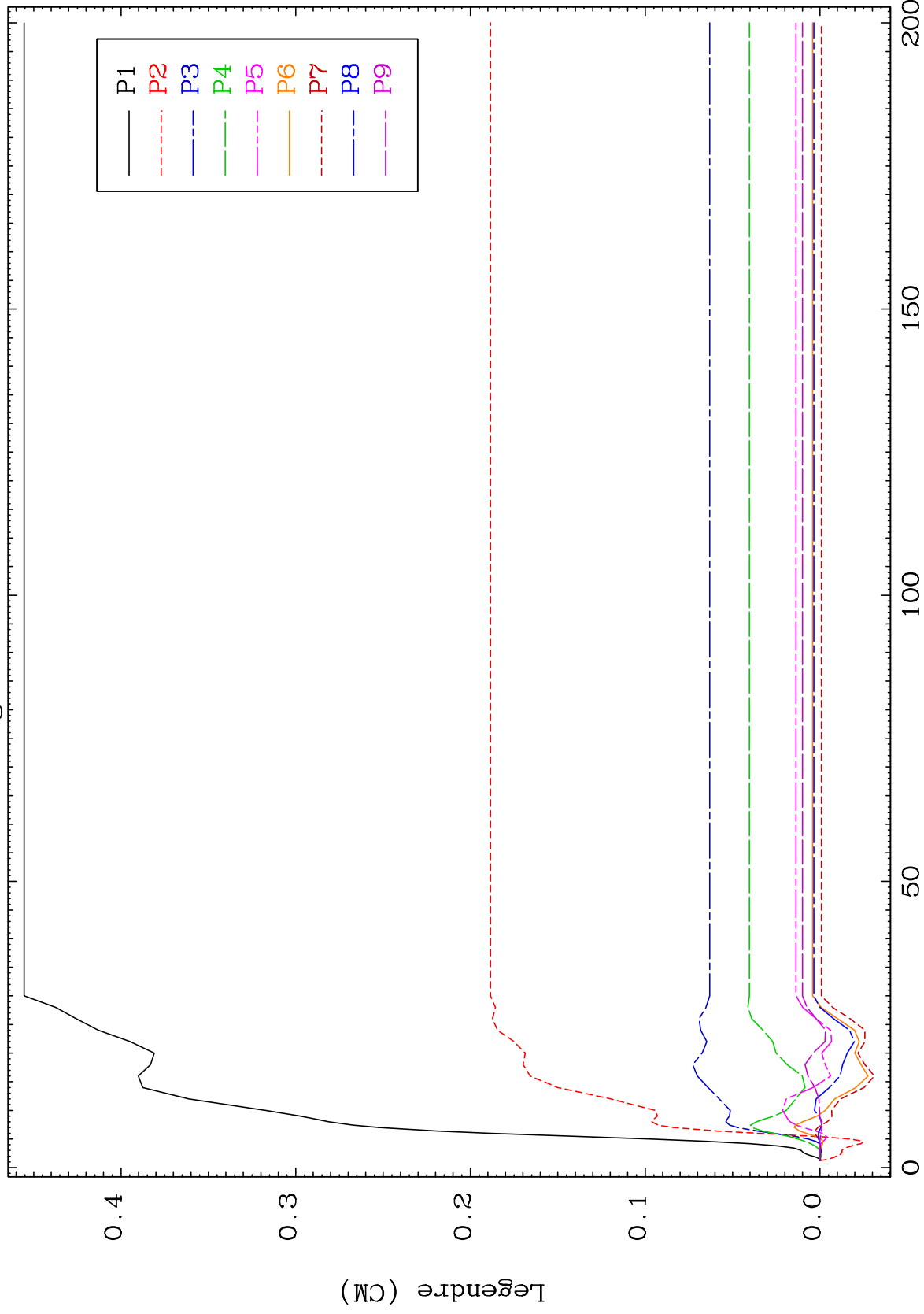
54-Xe-139



MAT 5470

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

54-Xe-139



54-Xe-139

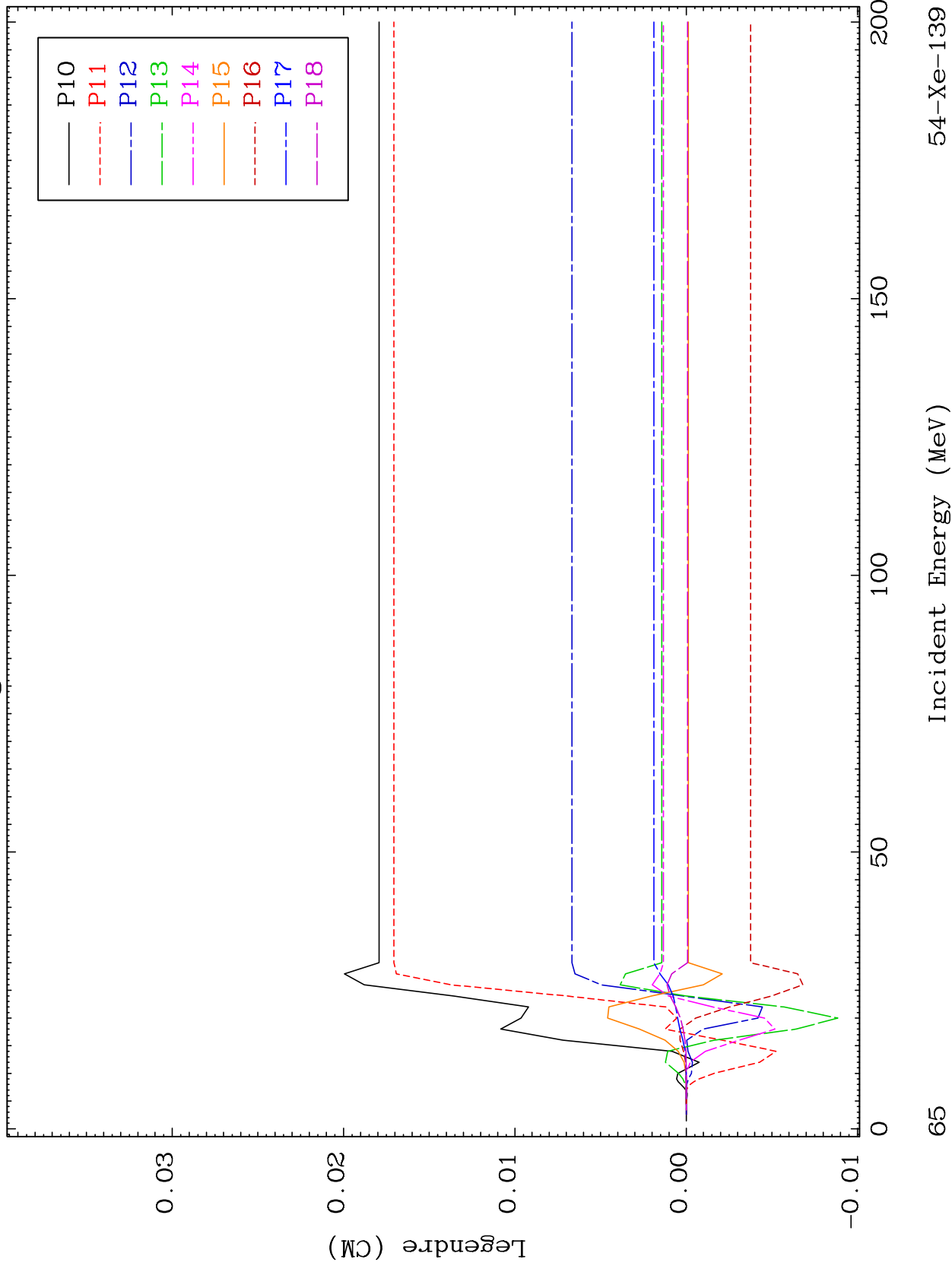
Incident Energy (MeV)

64

MAT 5470

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

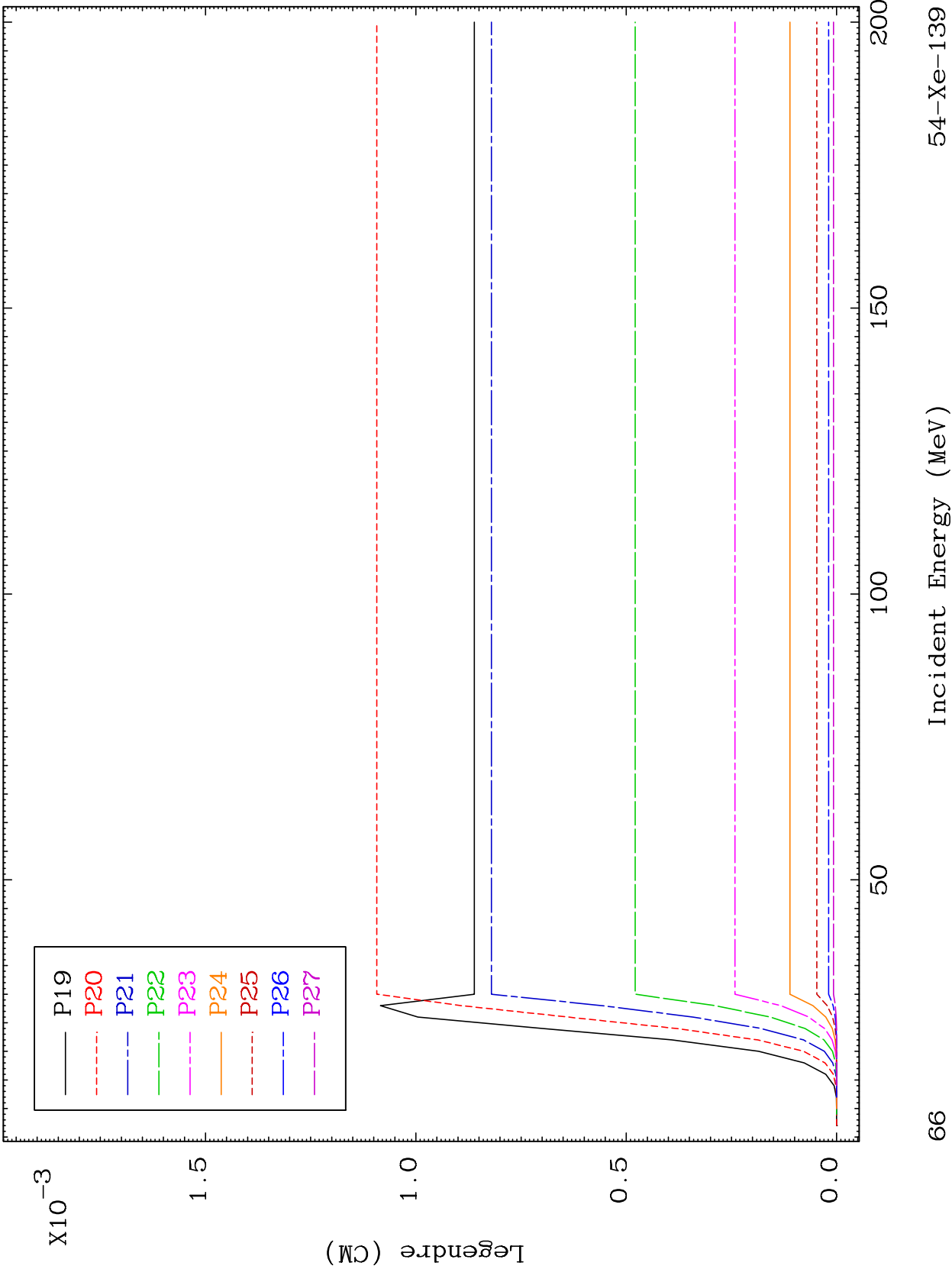
54-Xe-139



54-Xe-139

Incident Energy (MeV)

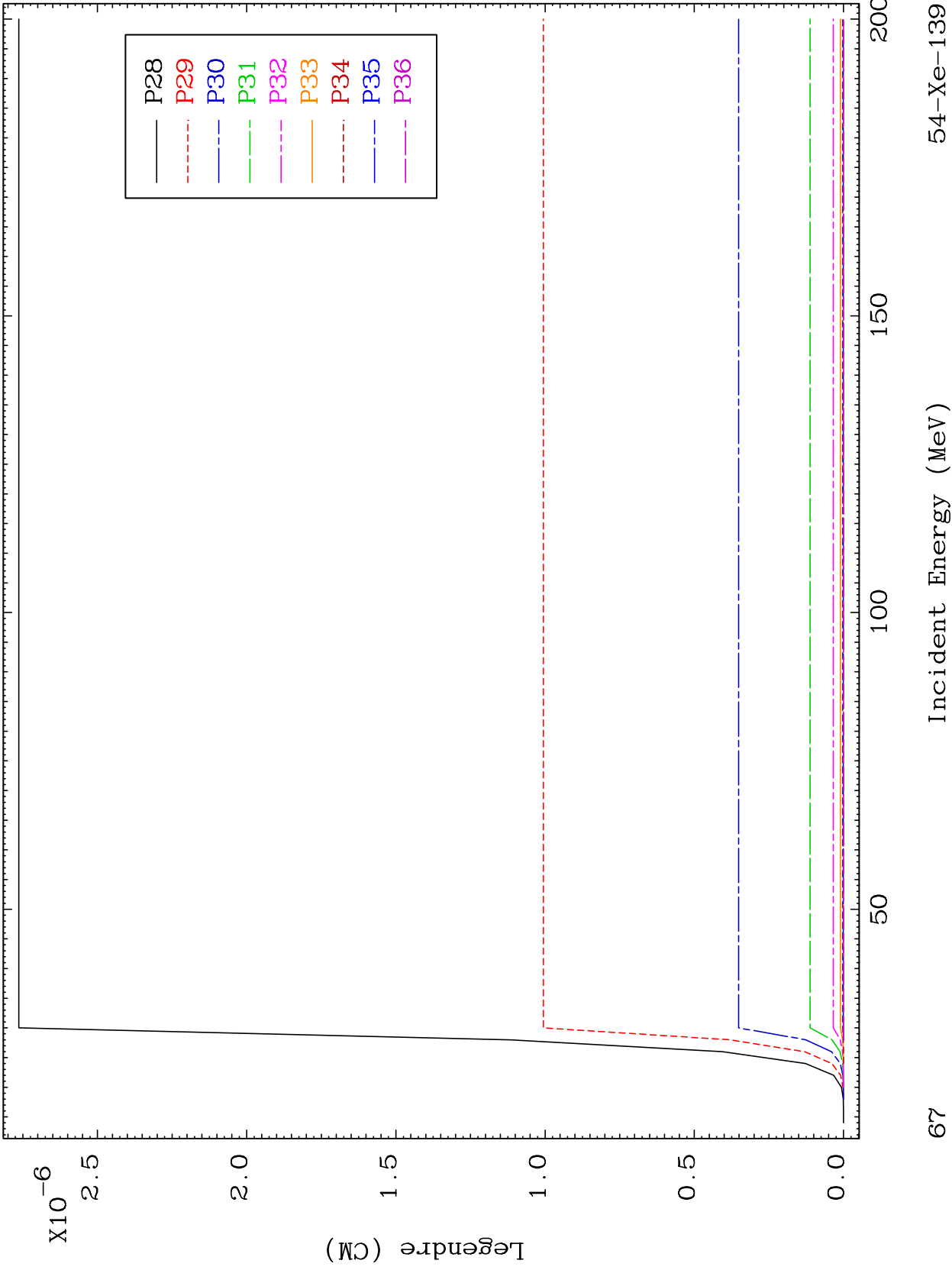
65



MAT 5470

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

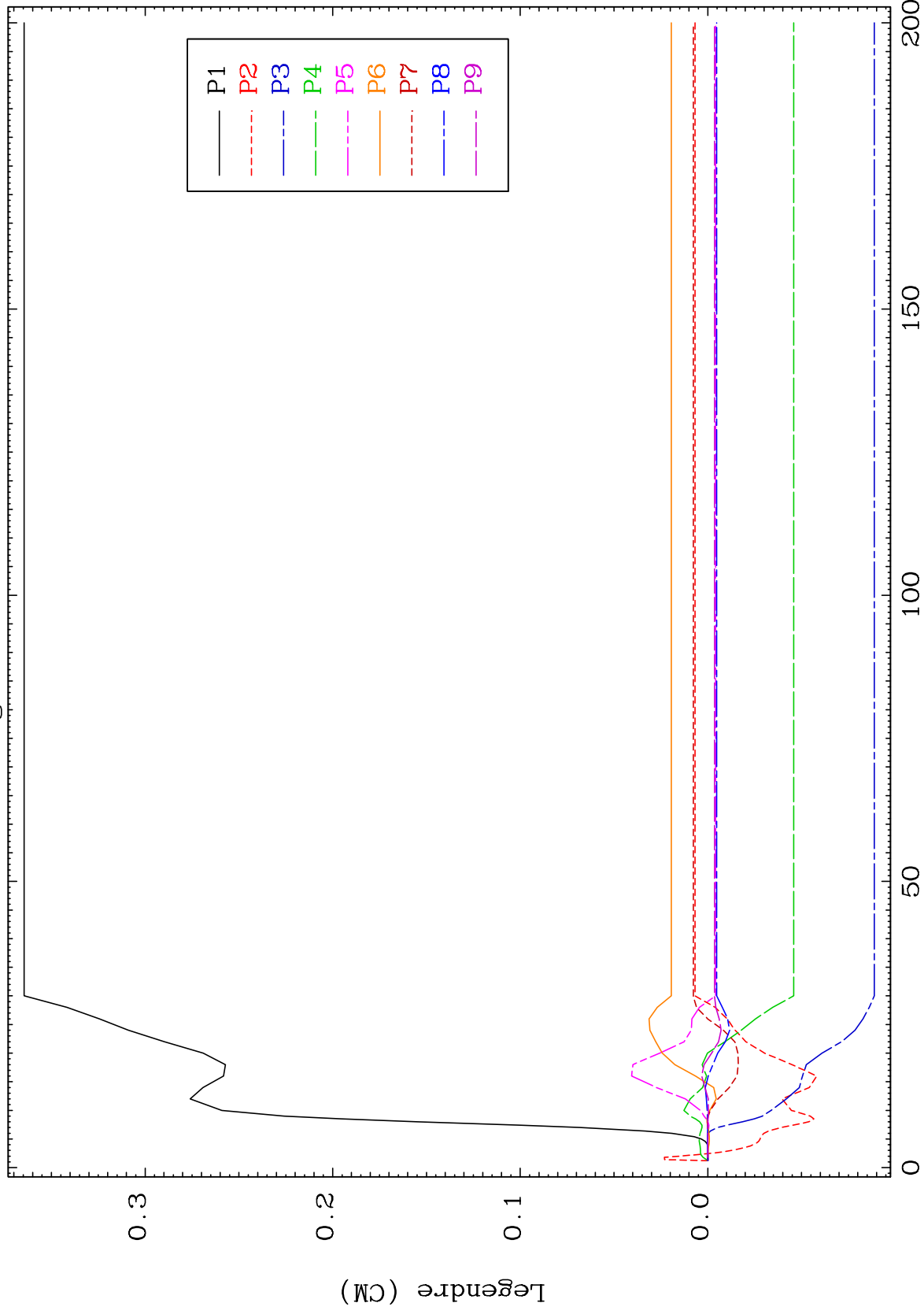
54-Xe-139



MAT 5470

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

54-Xe-139



54-Xe-139

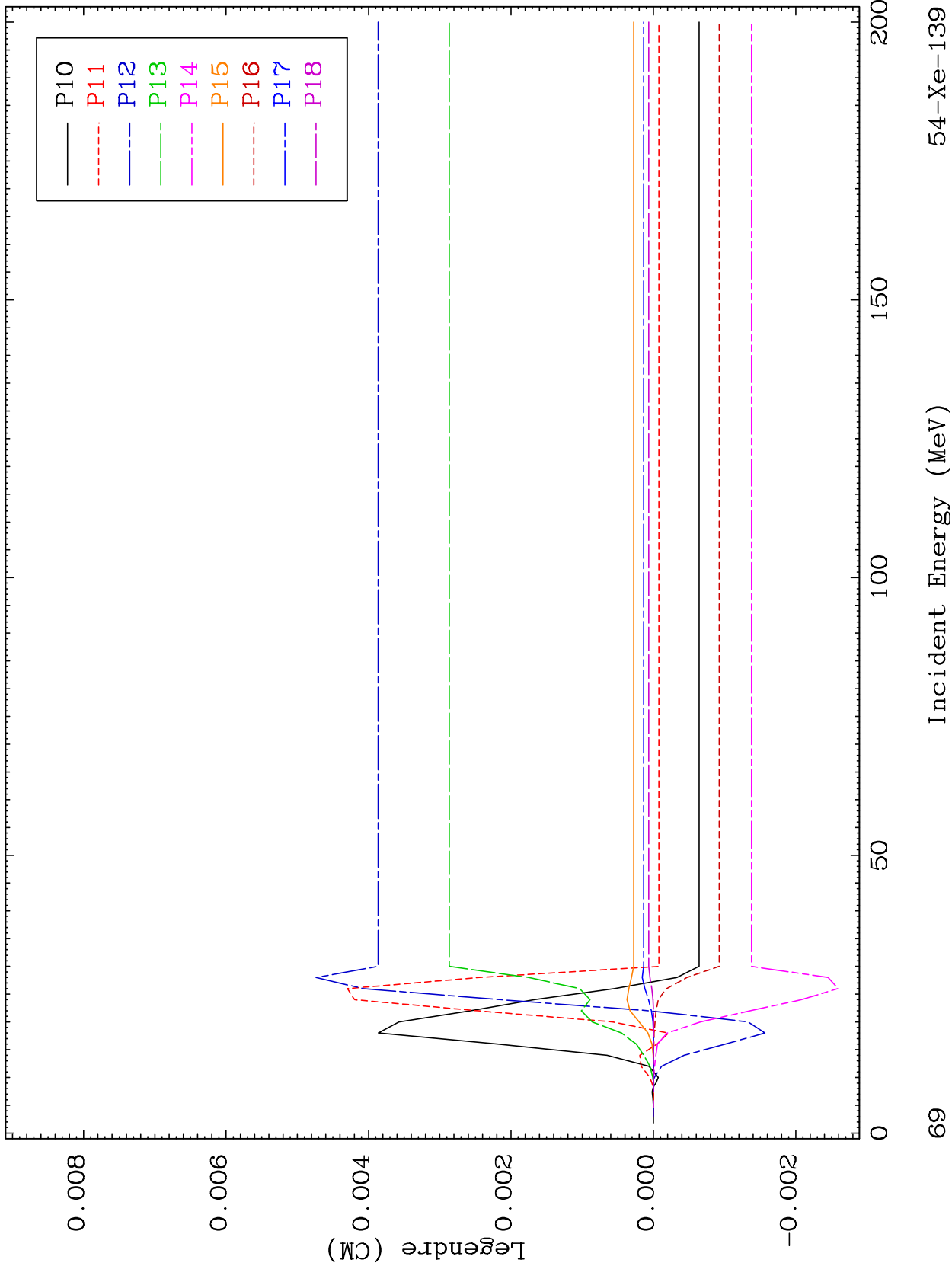
Incident Energy (MeV)

68

MAT 5470

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

54-Xe-139



54-Xe-139

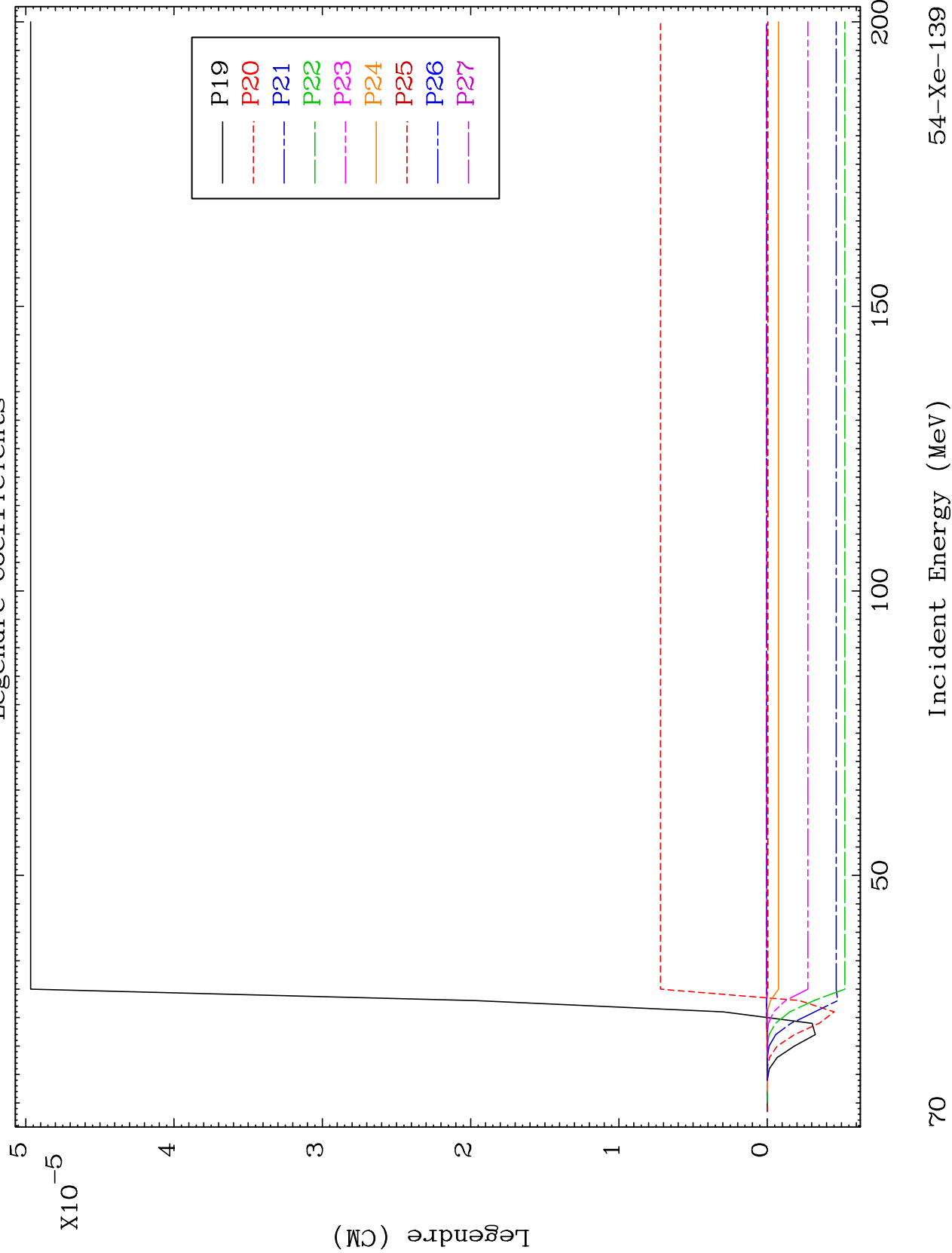
Incident Energy (MeV)

69

MAT 5470

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

54-Xe-139



70

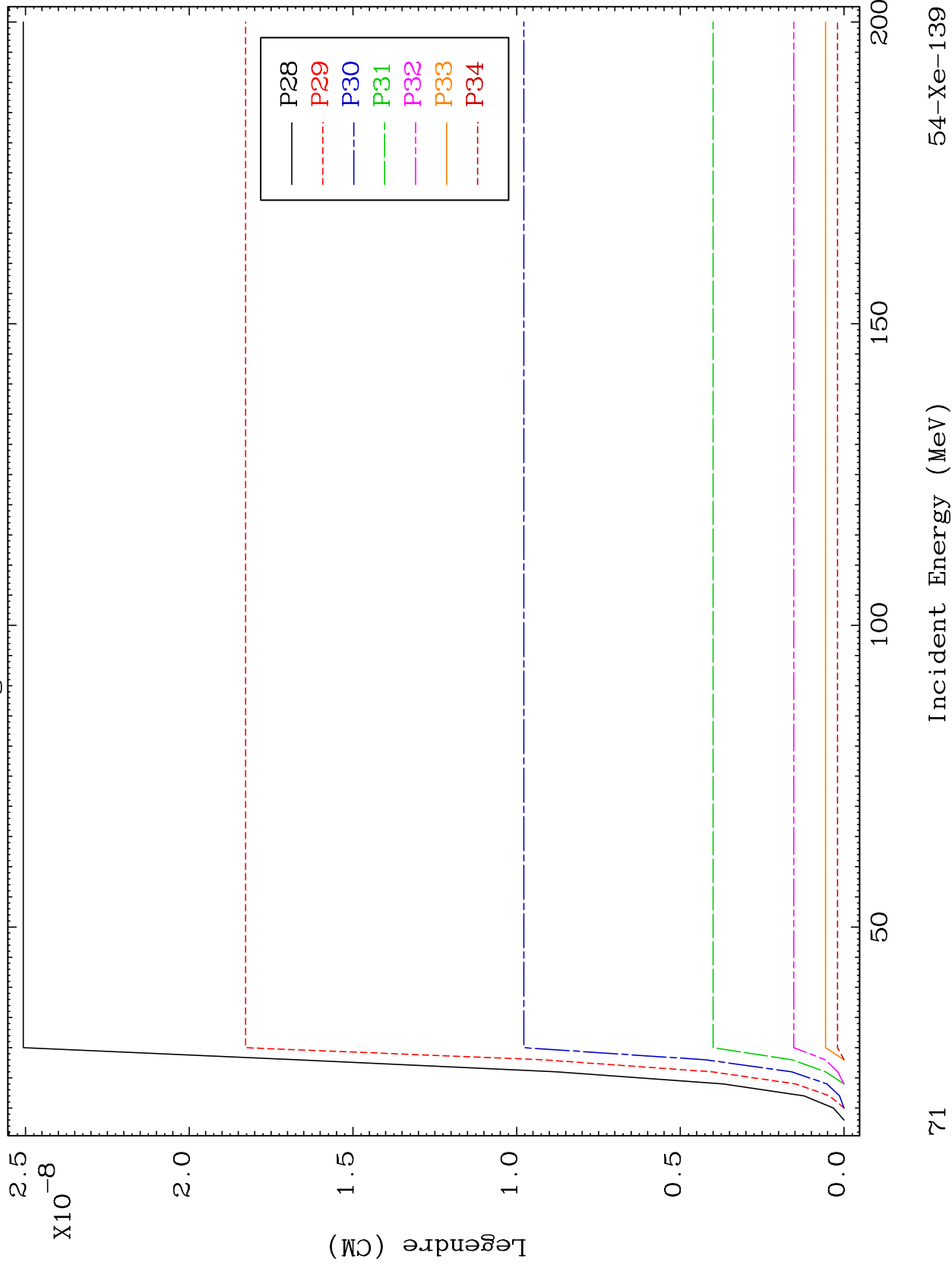
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



71

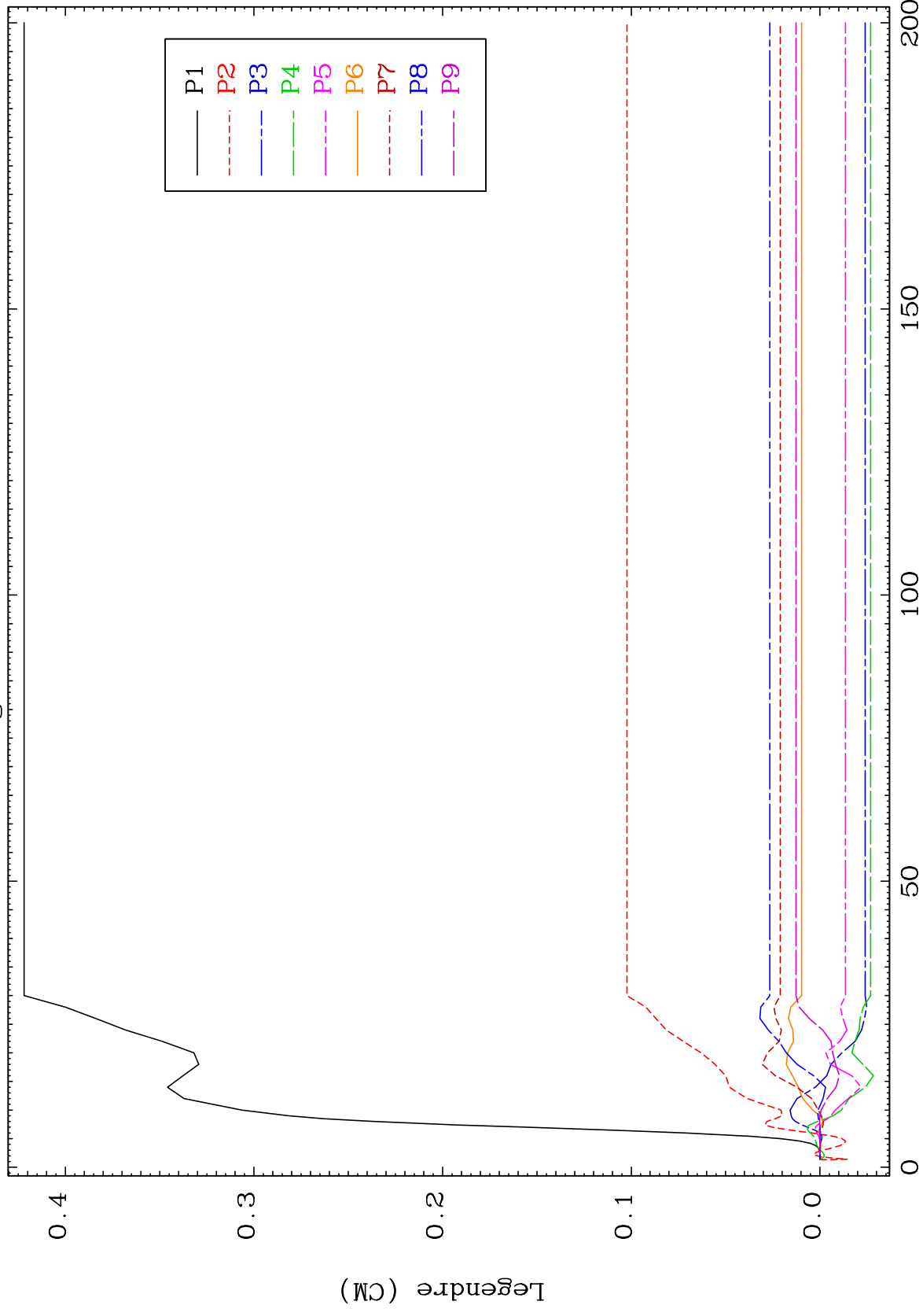
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



72

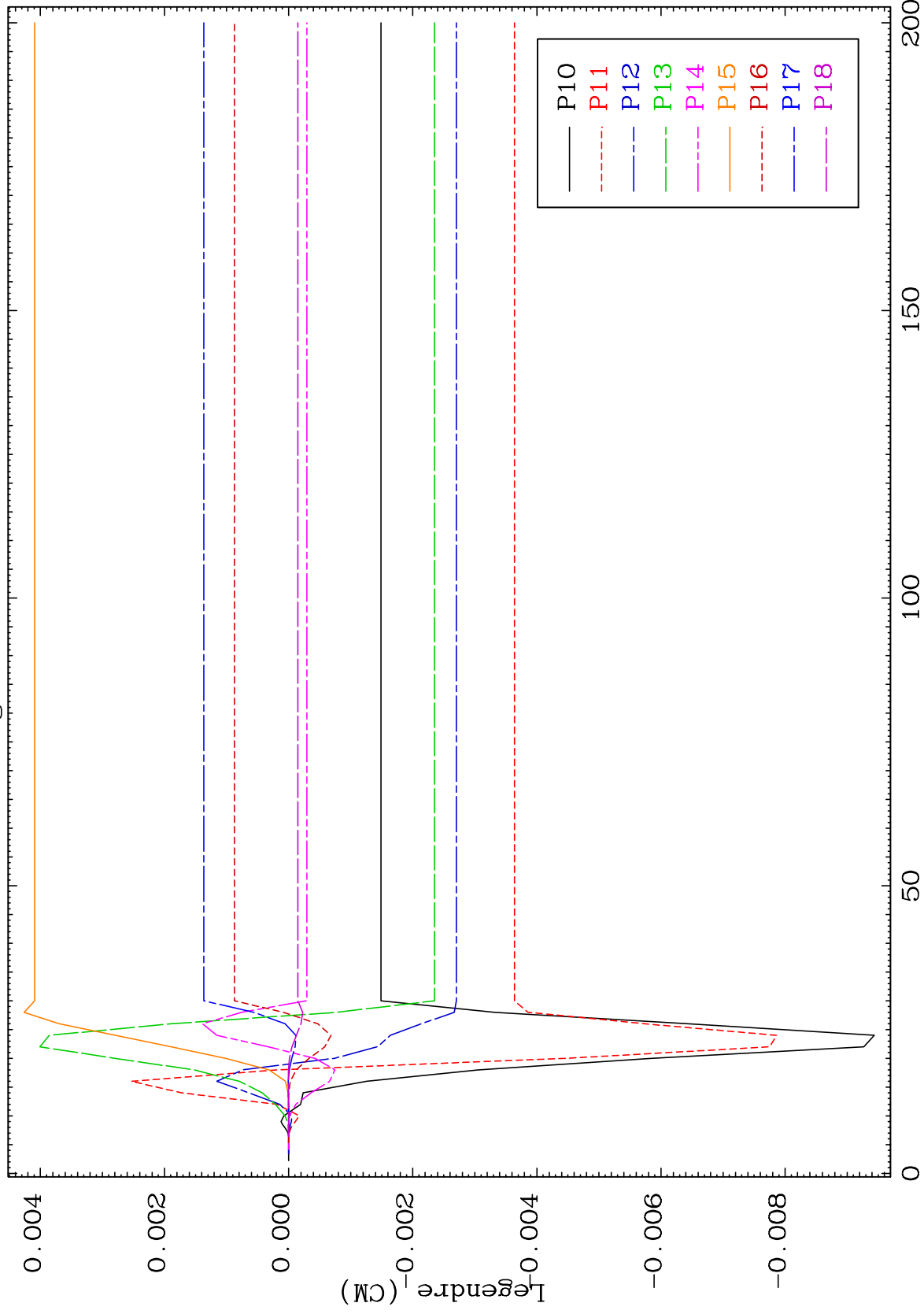
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



73

Incident Energy (MeV)

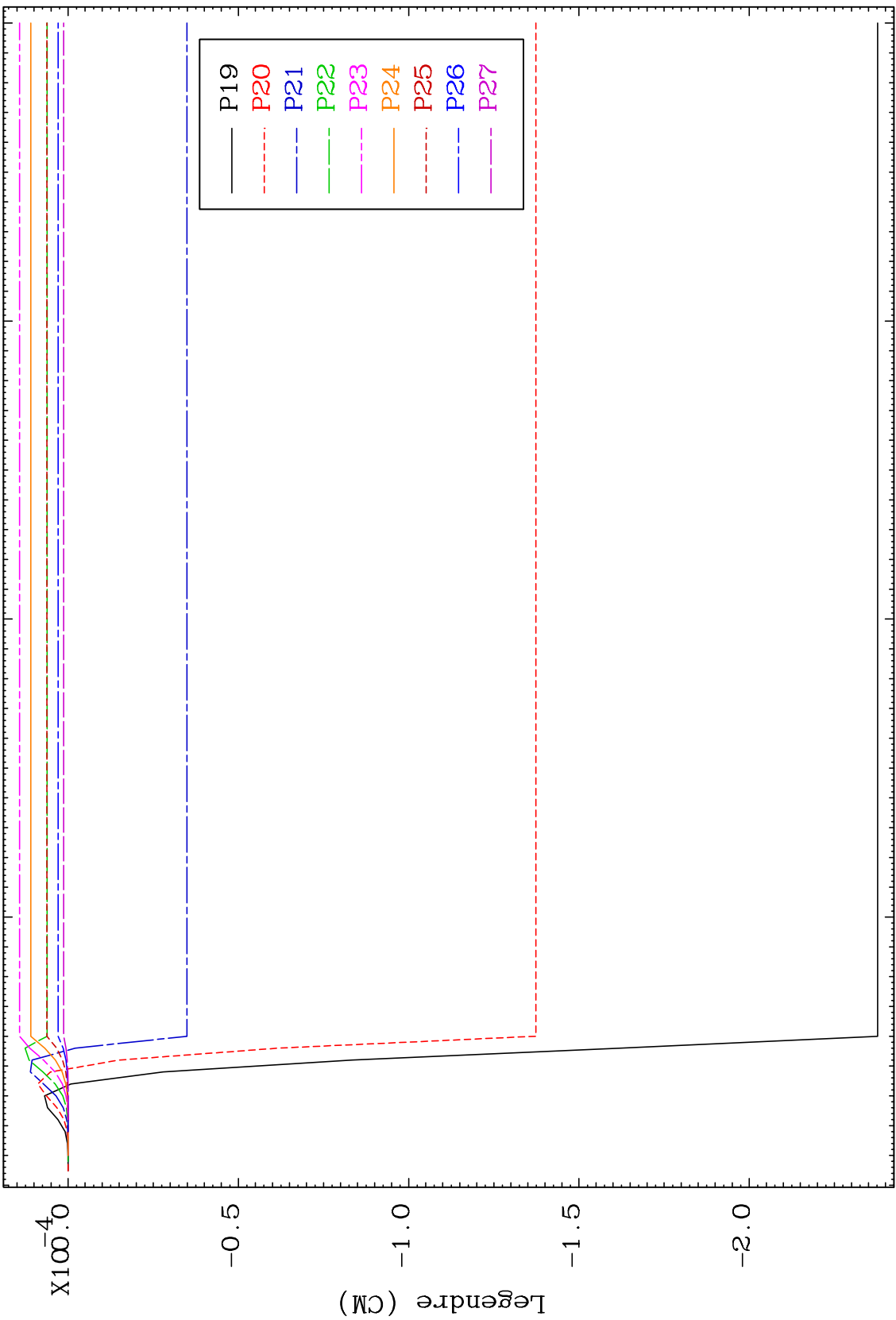
54-Xe-139

MAT 5470

MT= 64 (n,n') Level

54-Xe-139

Legendre Coefficients



54-Xe-139

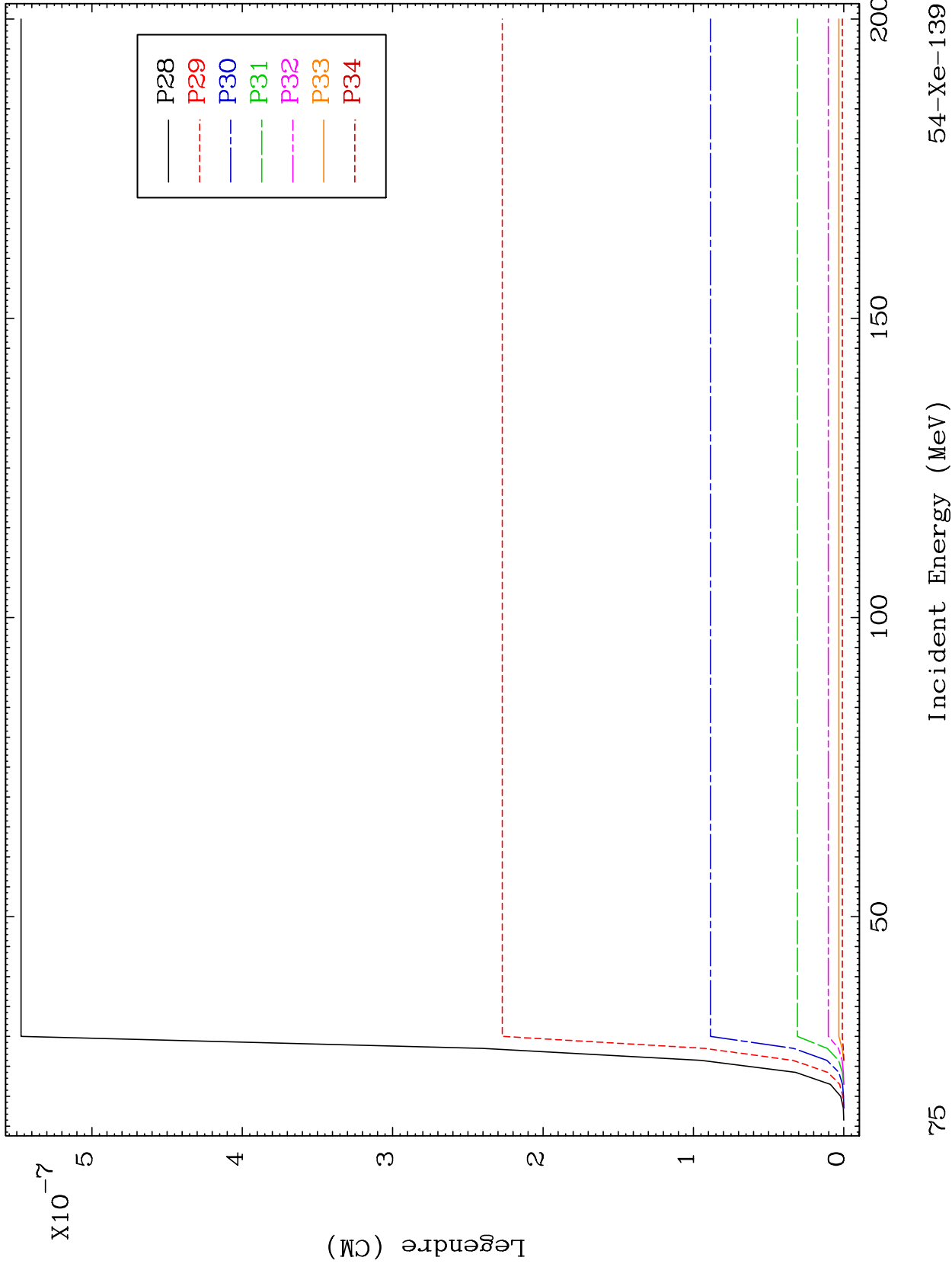
Incident Energy (MeV)

74

MAT 5470

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

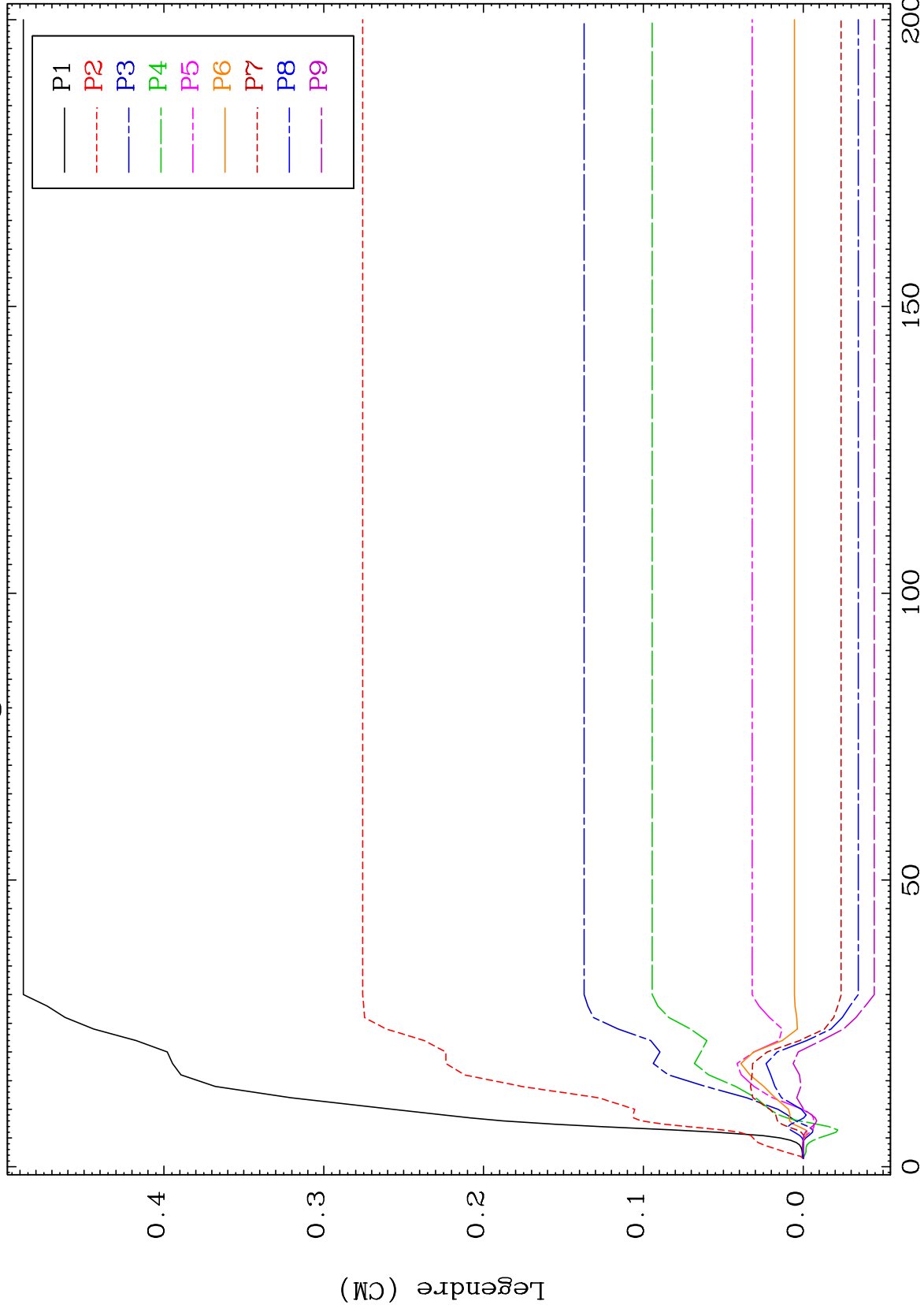
54-Xe-139



MAT 5470

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

54-Xe-139



76

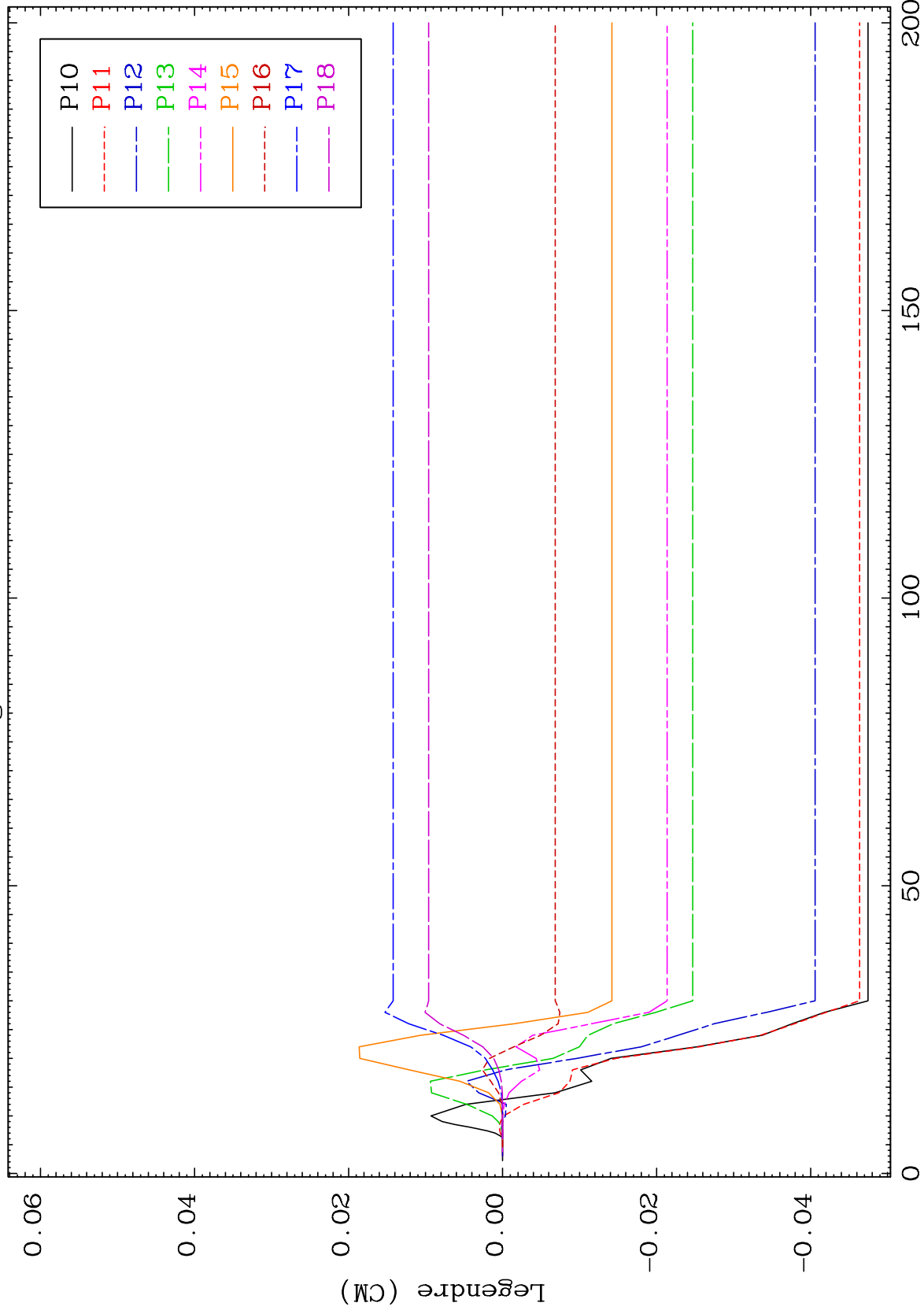
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



77

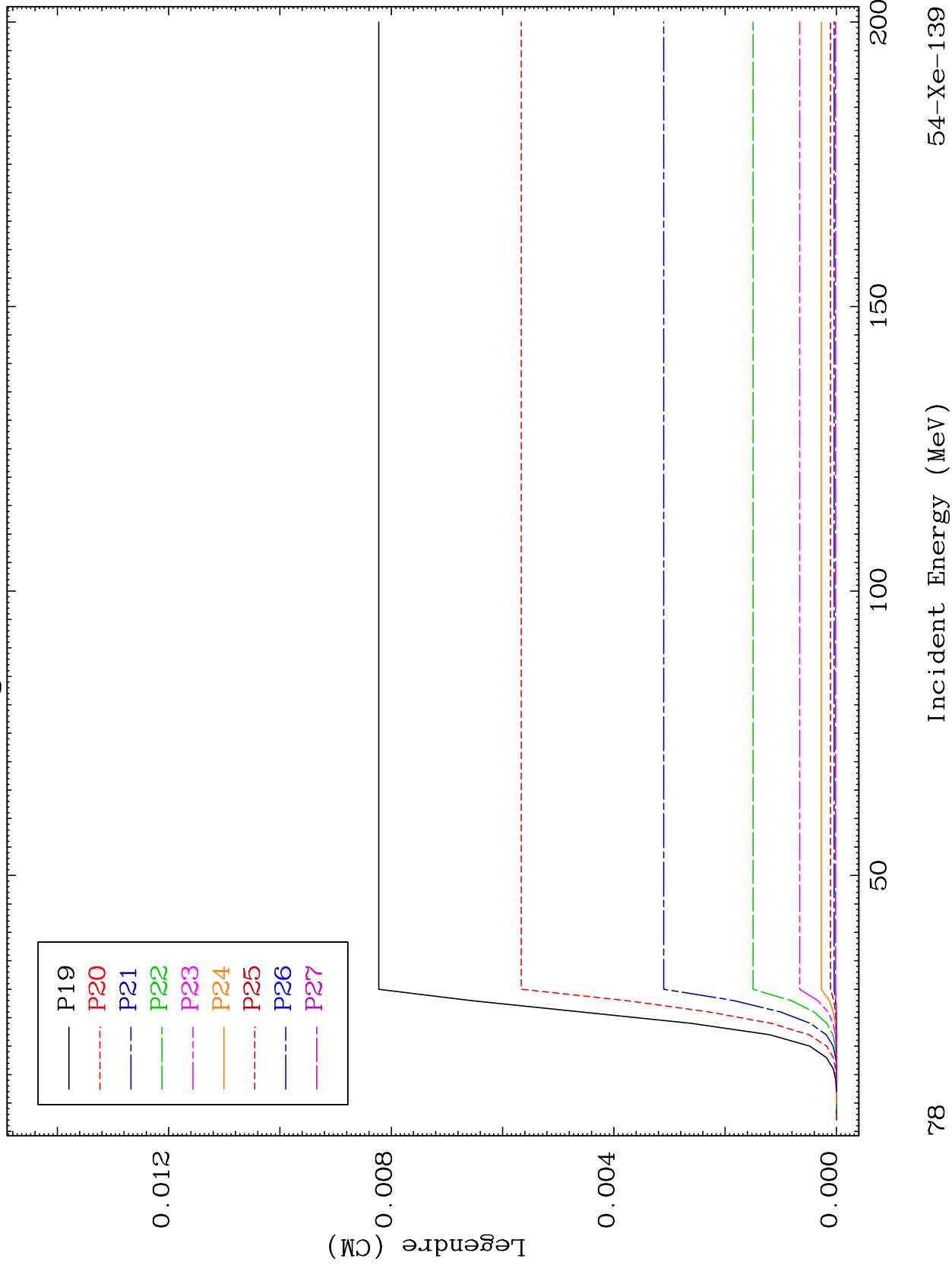
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



78

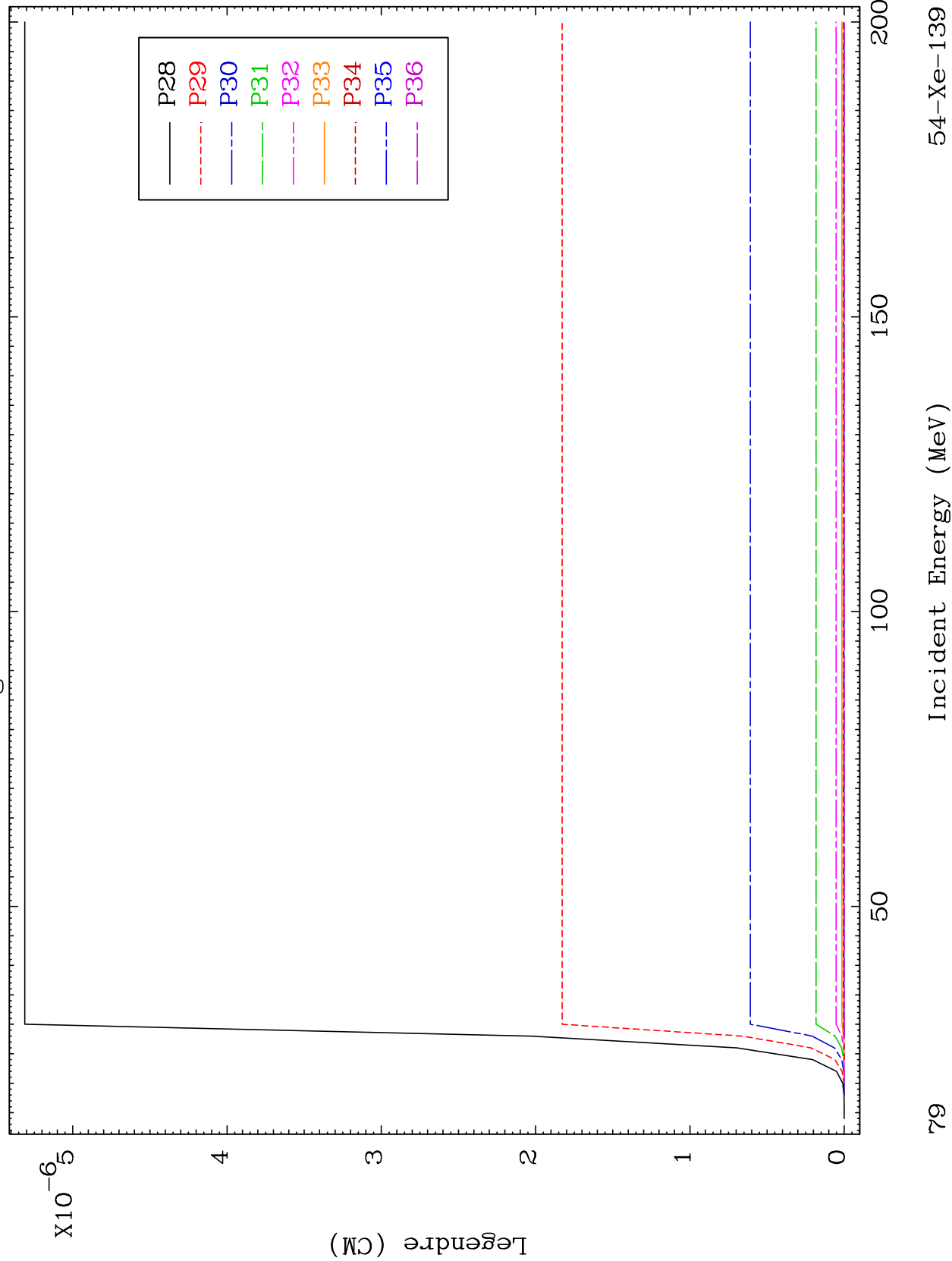
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

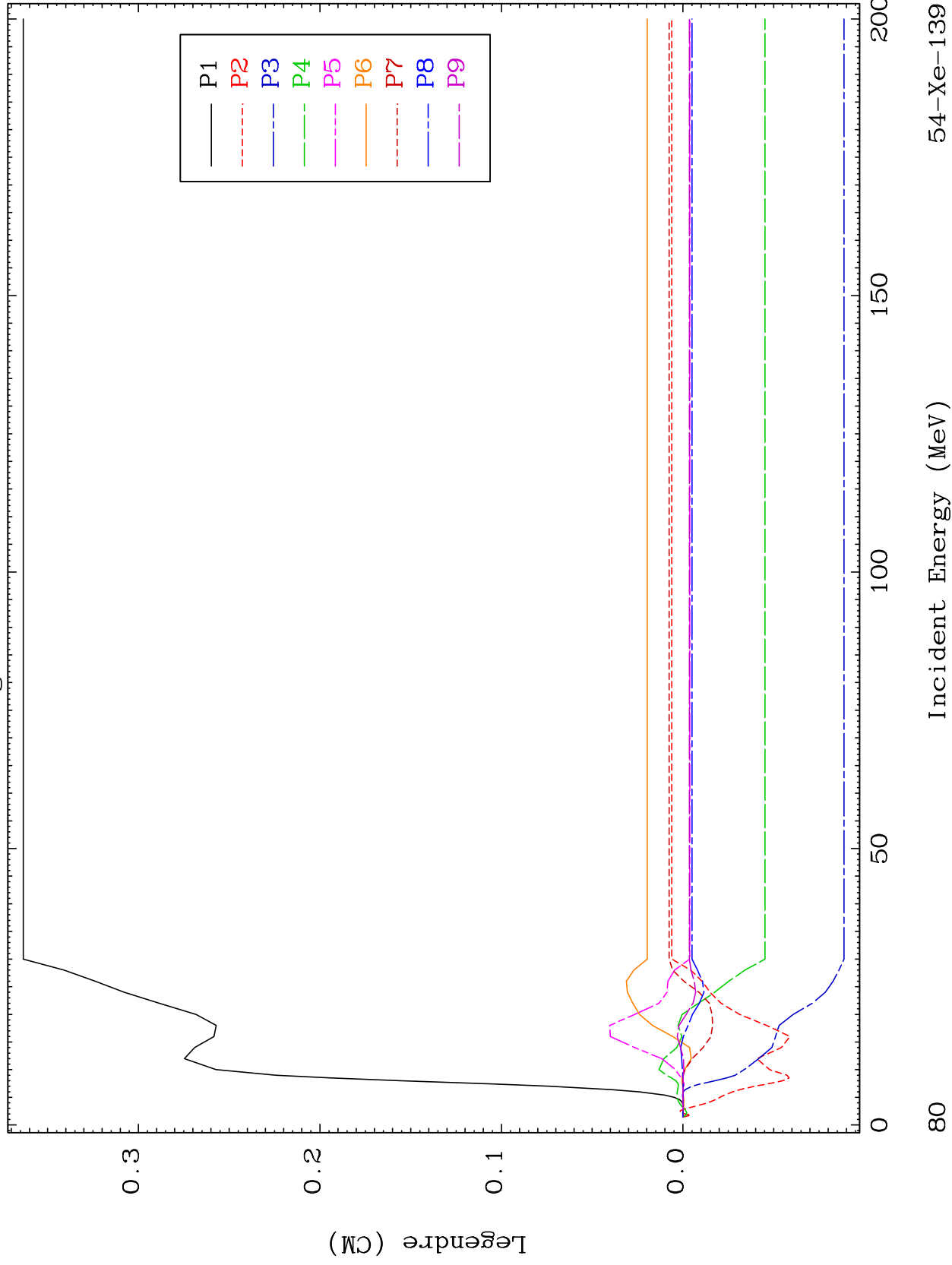
54-Xe-139



MAT 5470

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

54-Xe-139



54-Xe-139

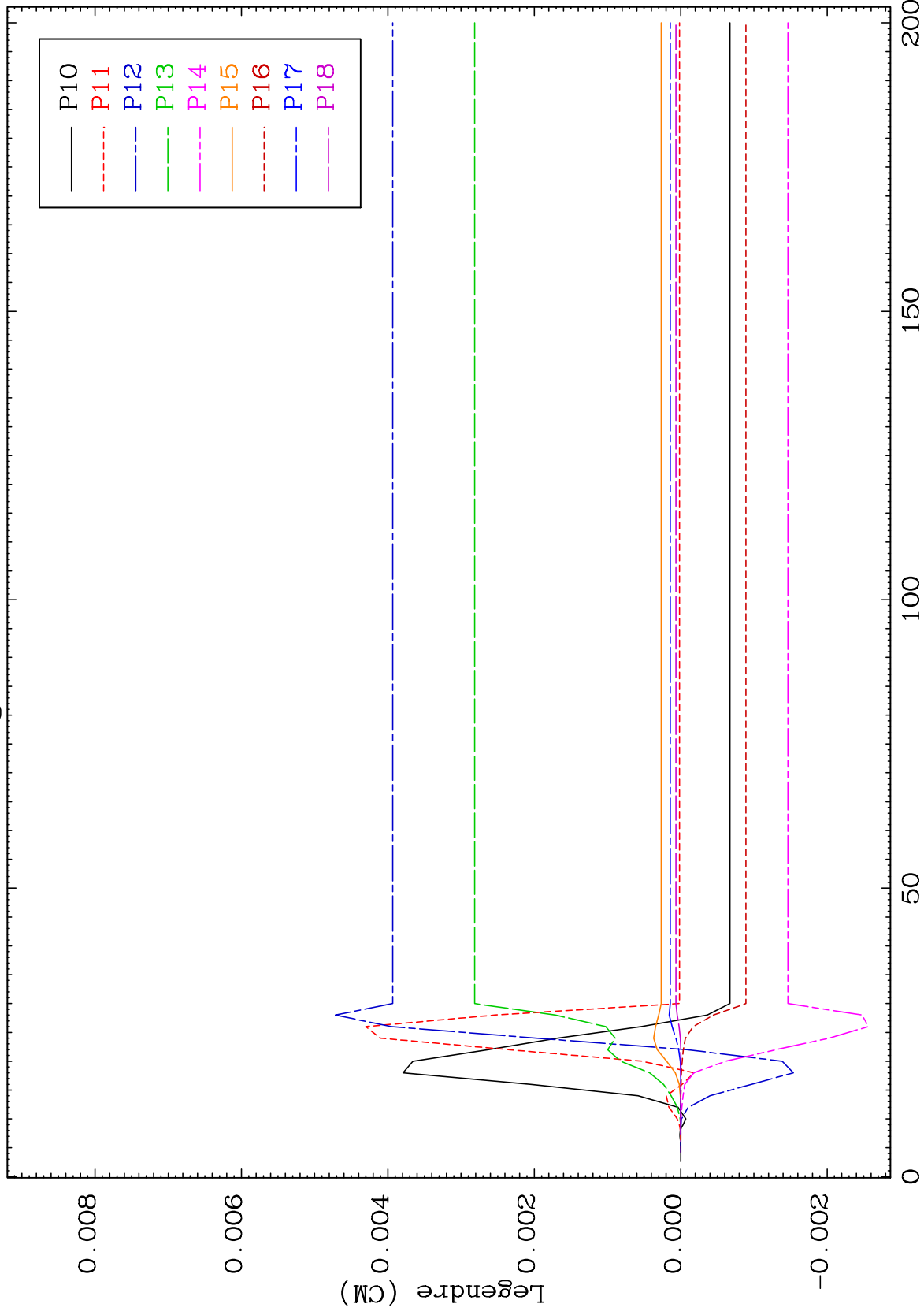
Incident Energy (MeV)

80

MAT 5470

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

54-Xe-139



81

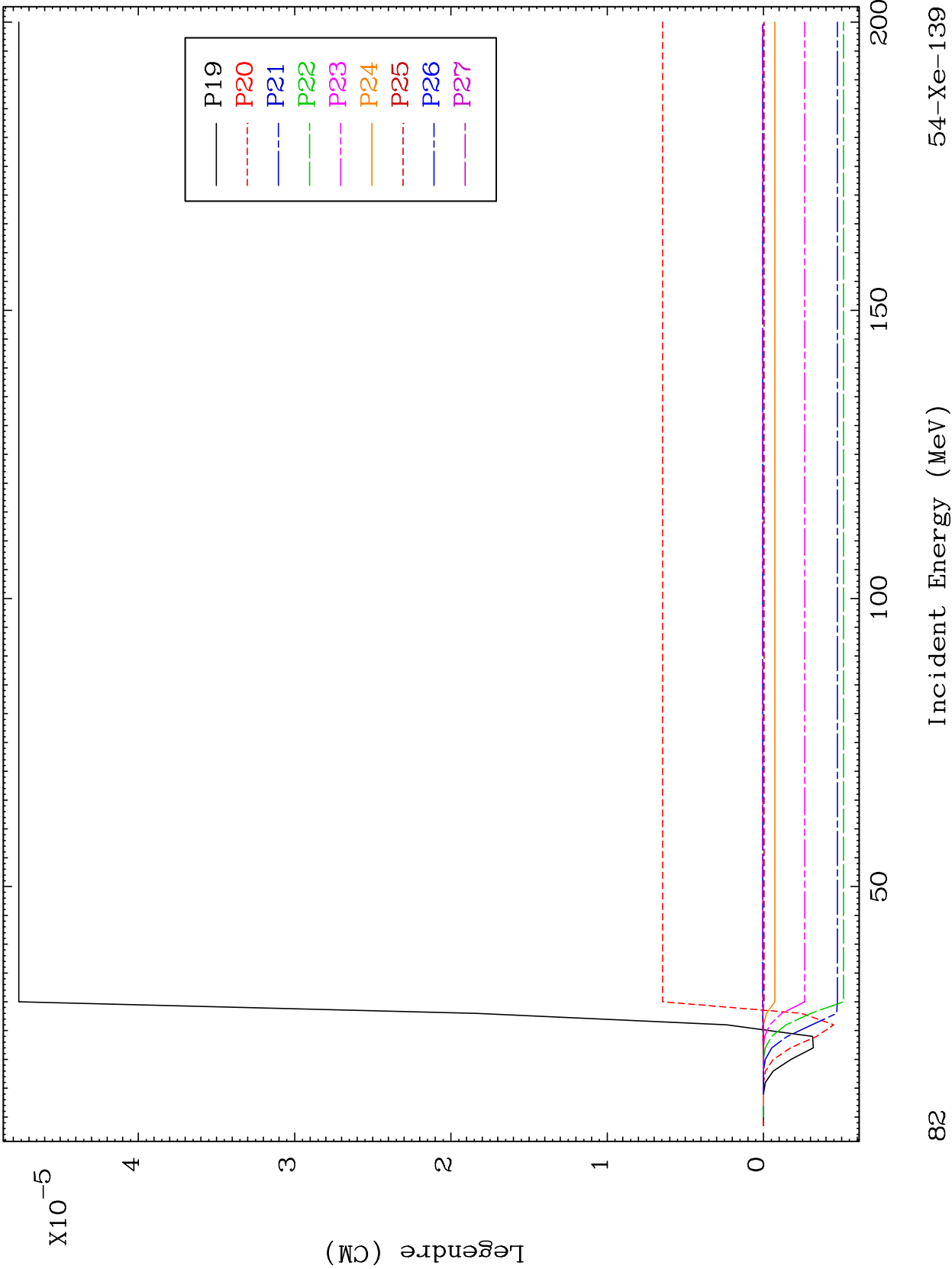
Incident Energy (MeV)

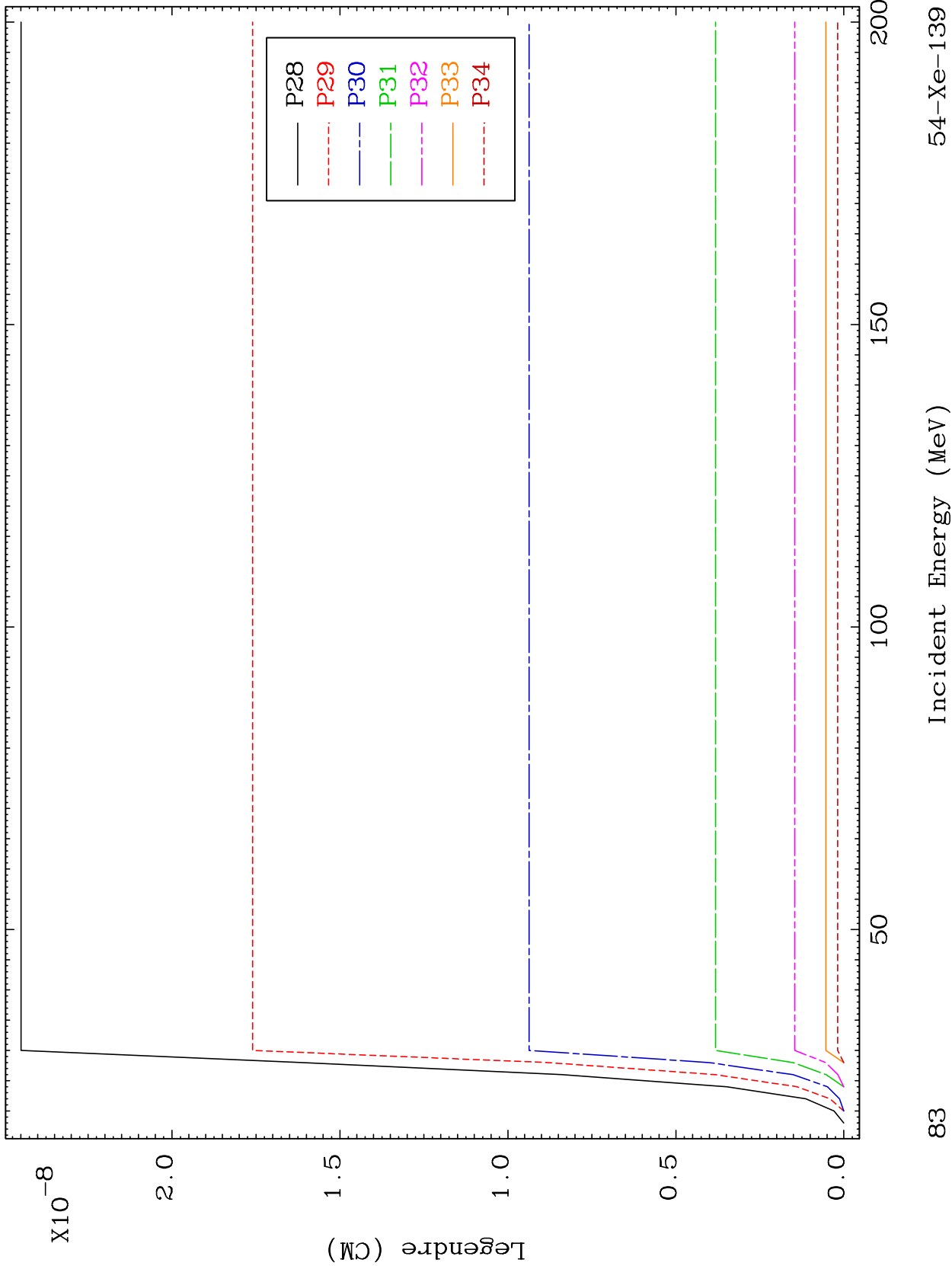
54-Xe-139

MAT 5470

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

54-Xe-139

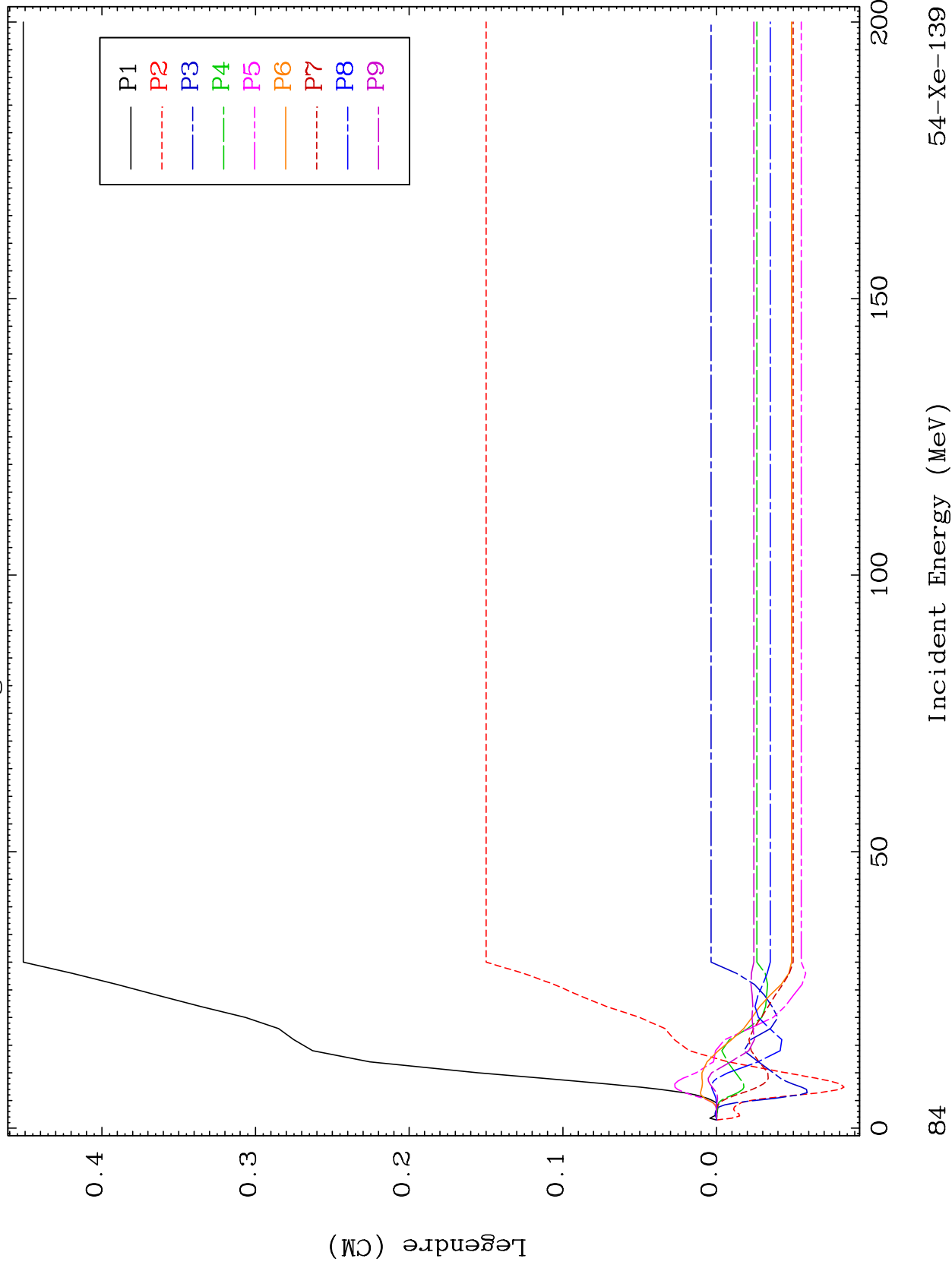




MAT 5470

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

54-Xe-139



54-Xe-139

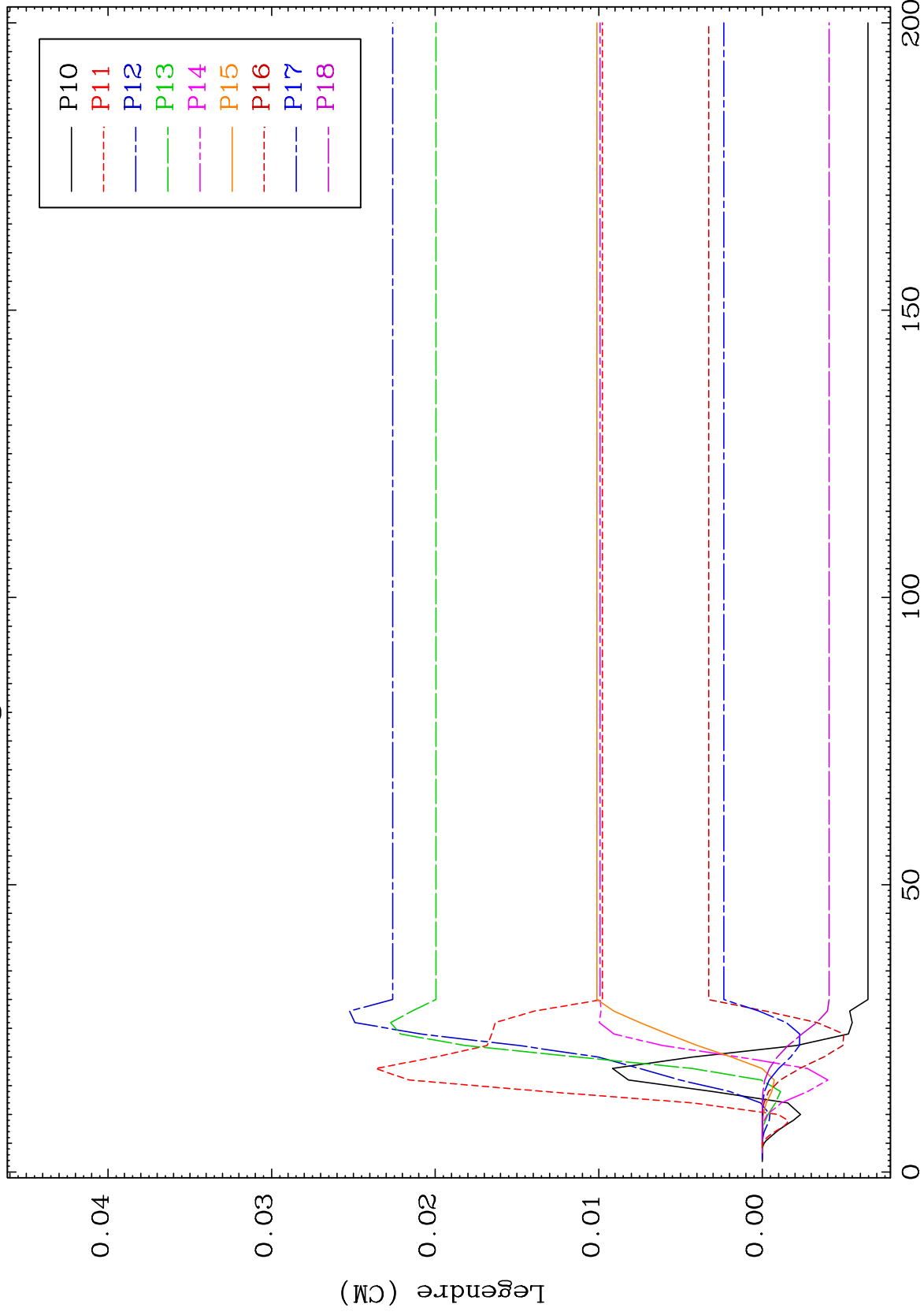
Incident Energy (MeV)

84

MAT 5470

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

54-Xe-139



85

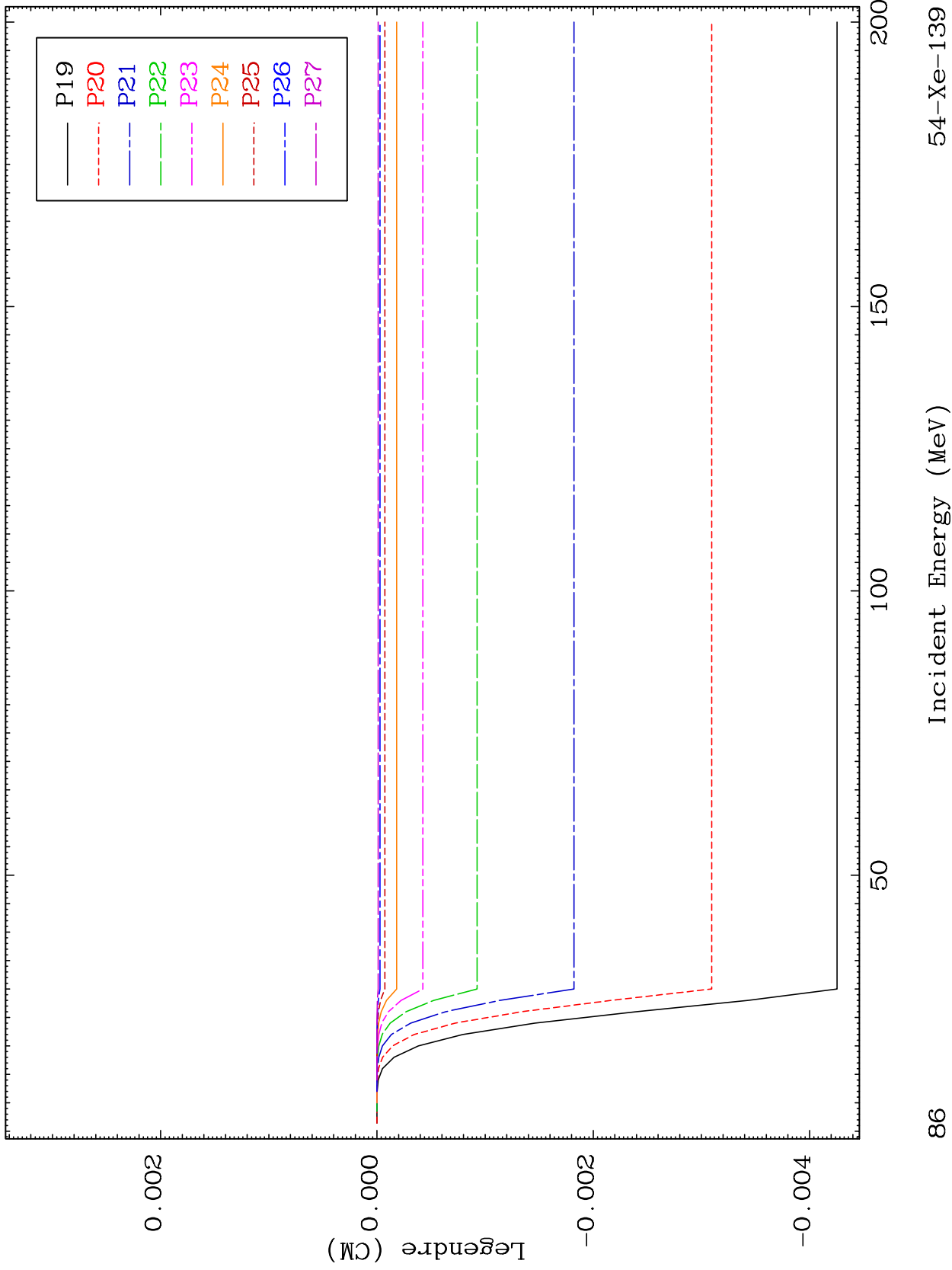
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

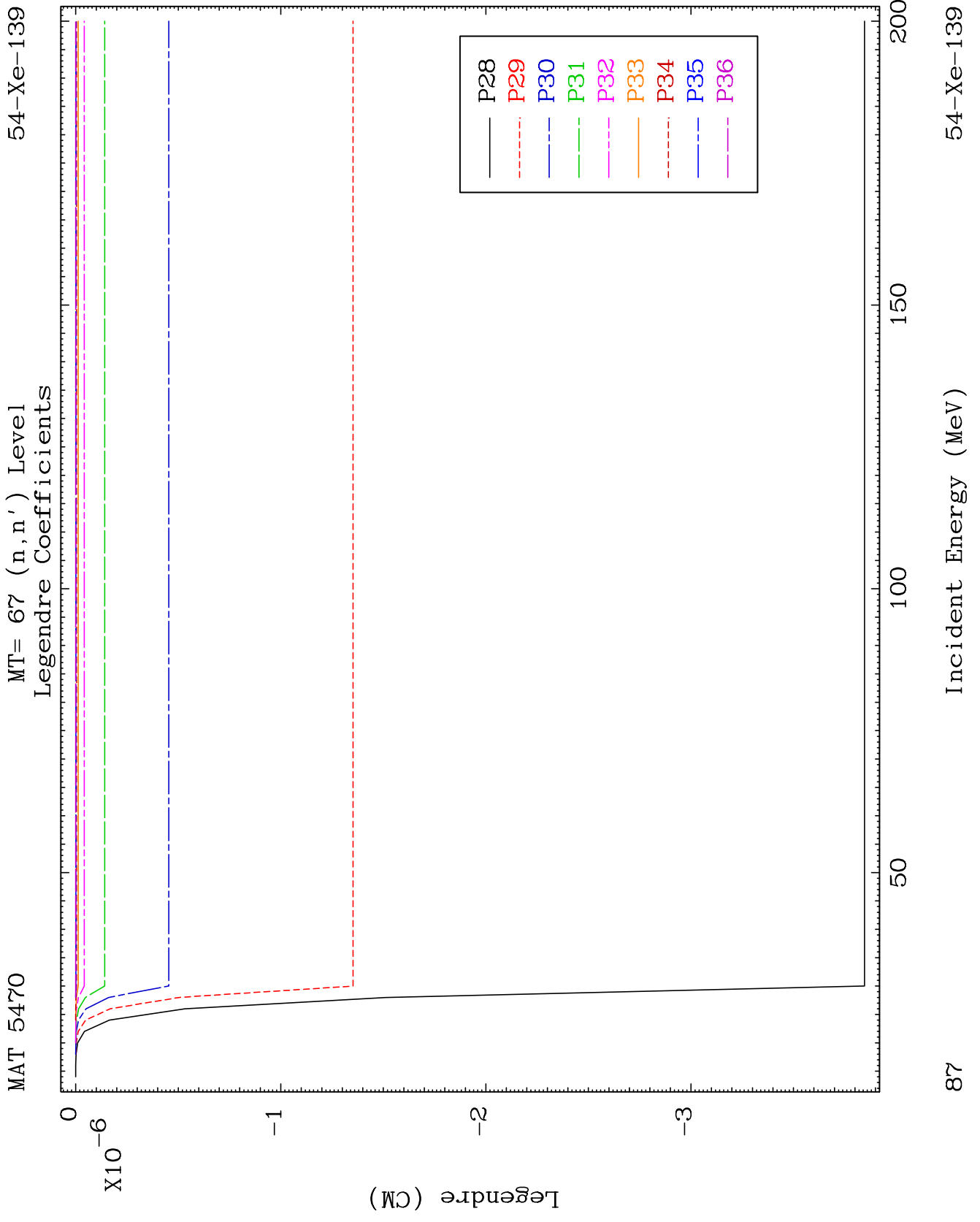
54-Xe-139



86

Incident Energy (MeV)

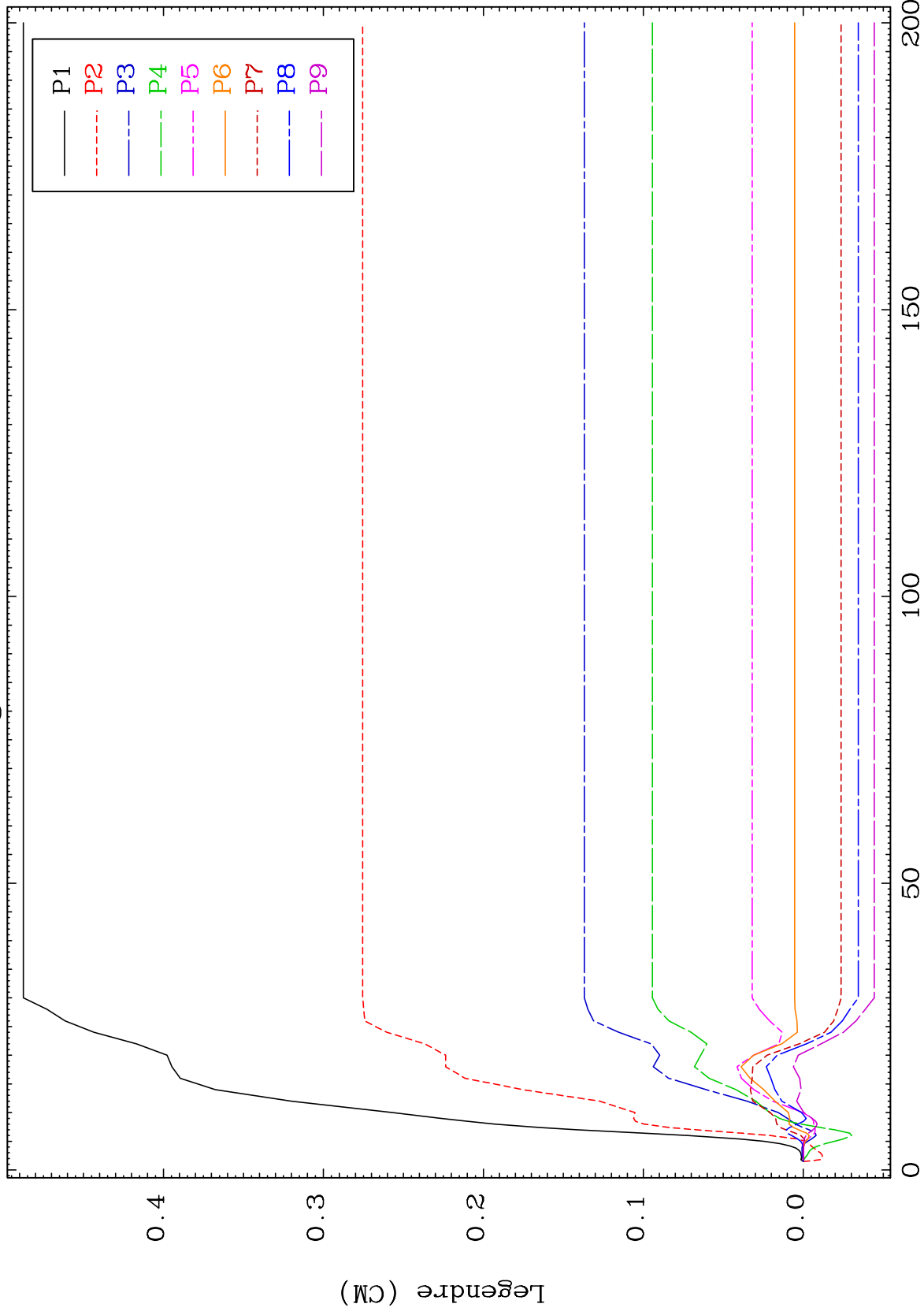
54-Xe-139



MAT 5470

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

54-Xe-139



88

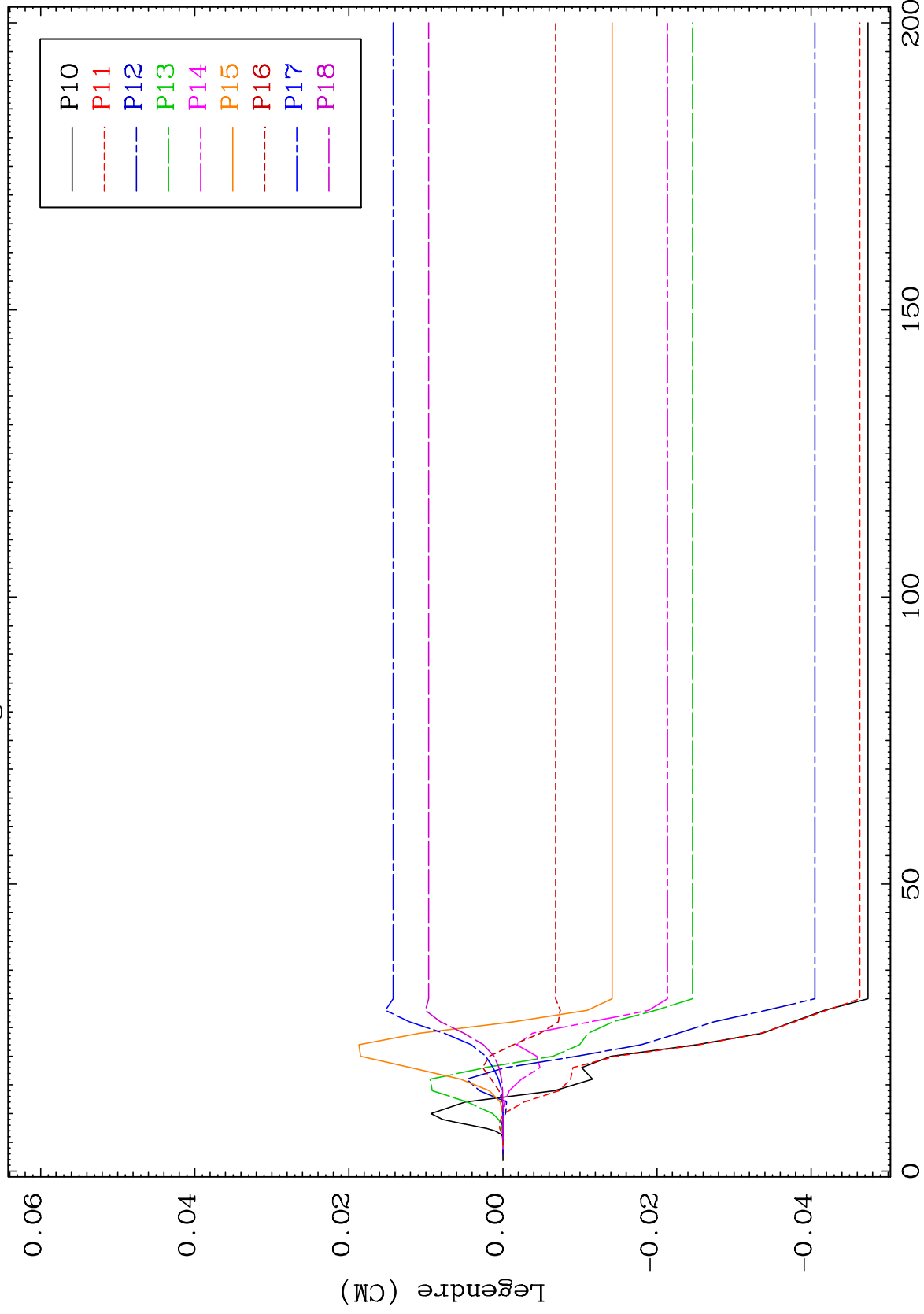
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



89

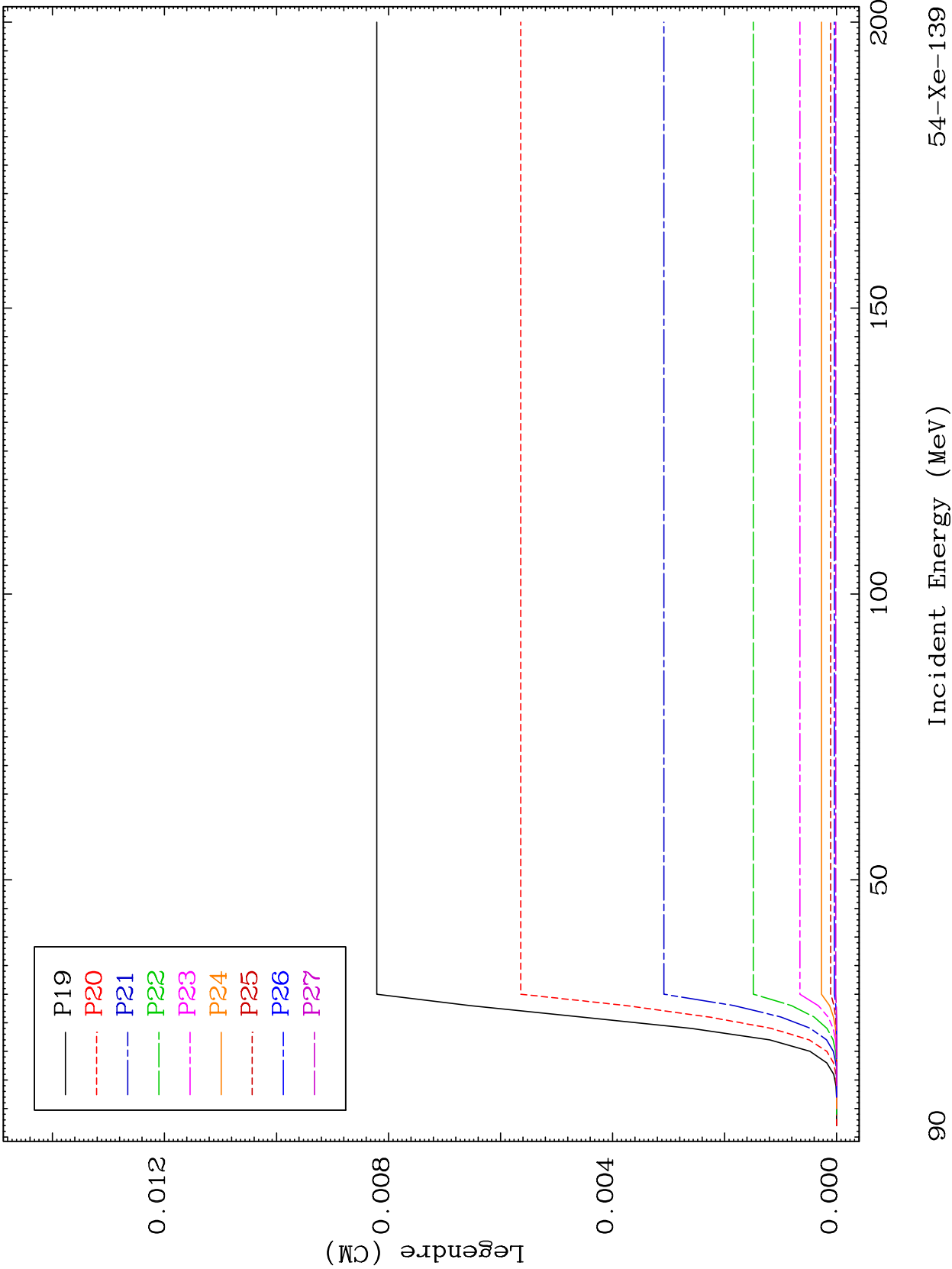
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



54-Xe-139

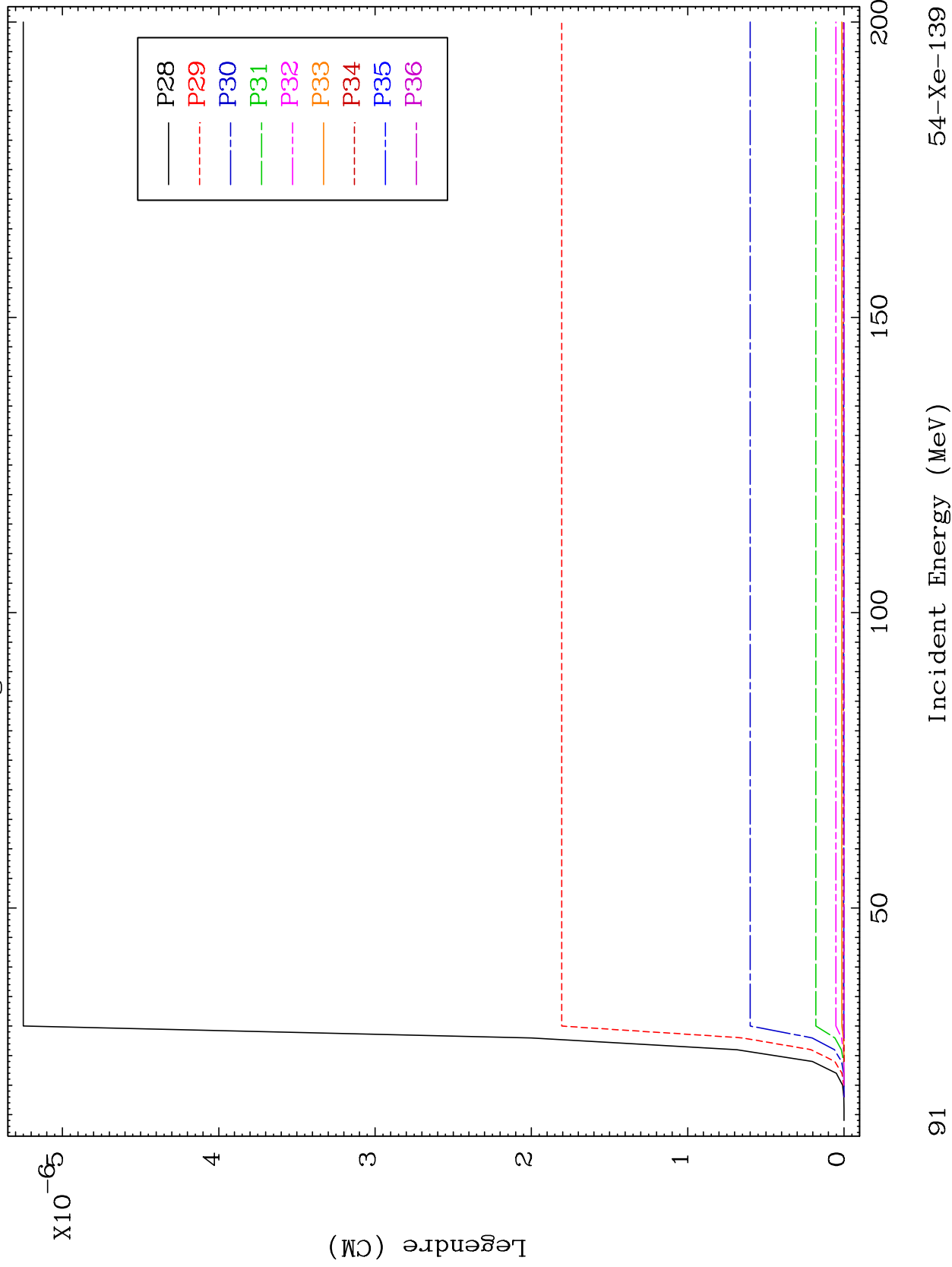
Incident Energy (MeV)

90

MAT 5470

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

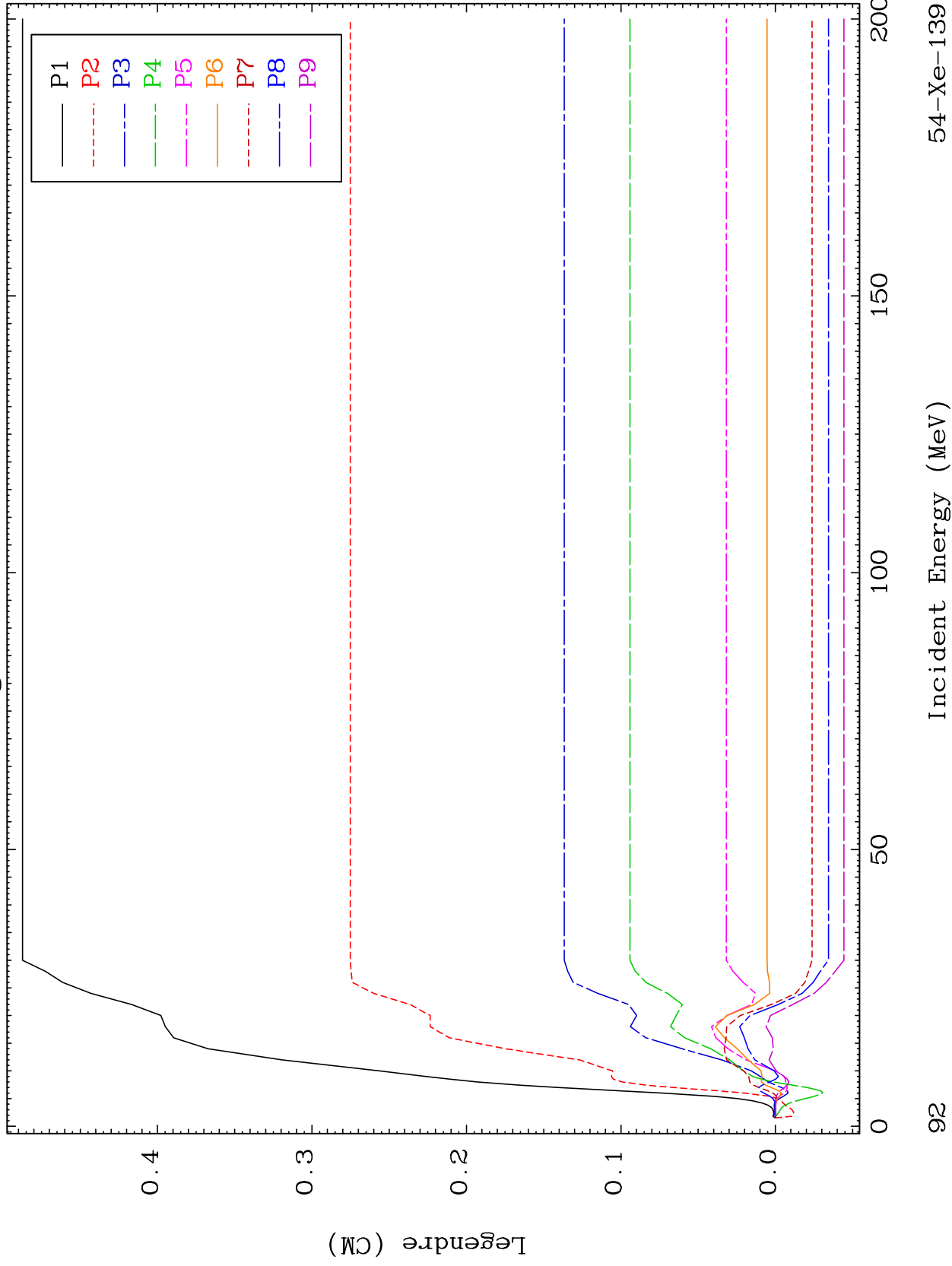
54-Xe-139



MAT 5470

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

54-Xe-139



54-Xe-139

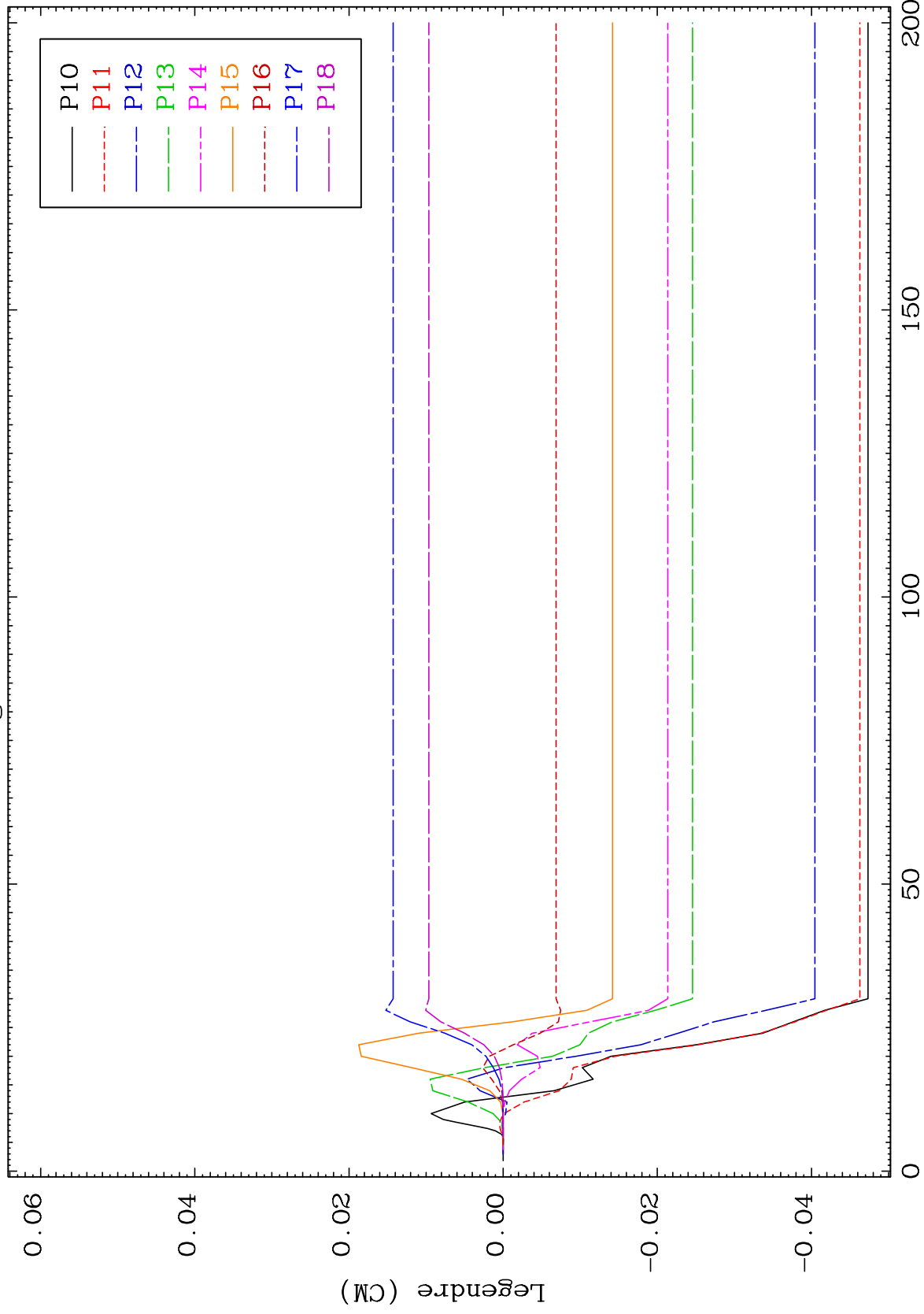
Incident Energy (MeV)

92

MAT 5470

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

54-Xe-139



93

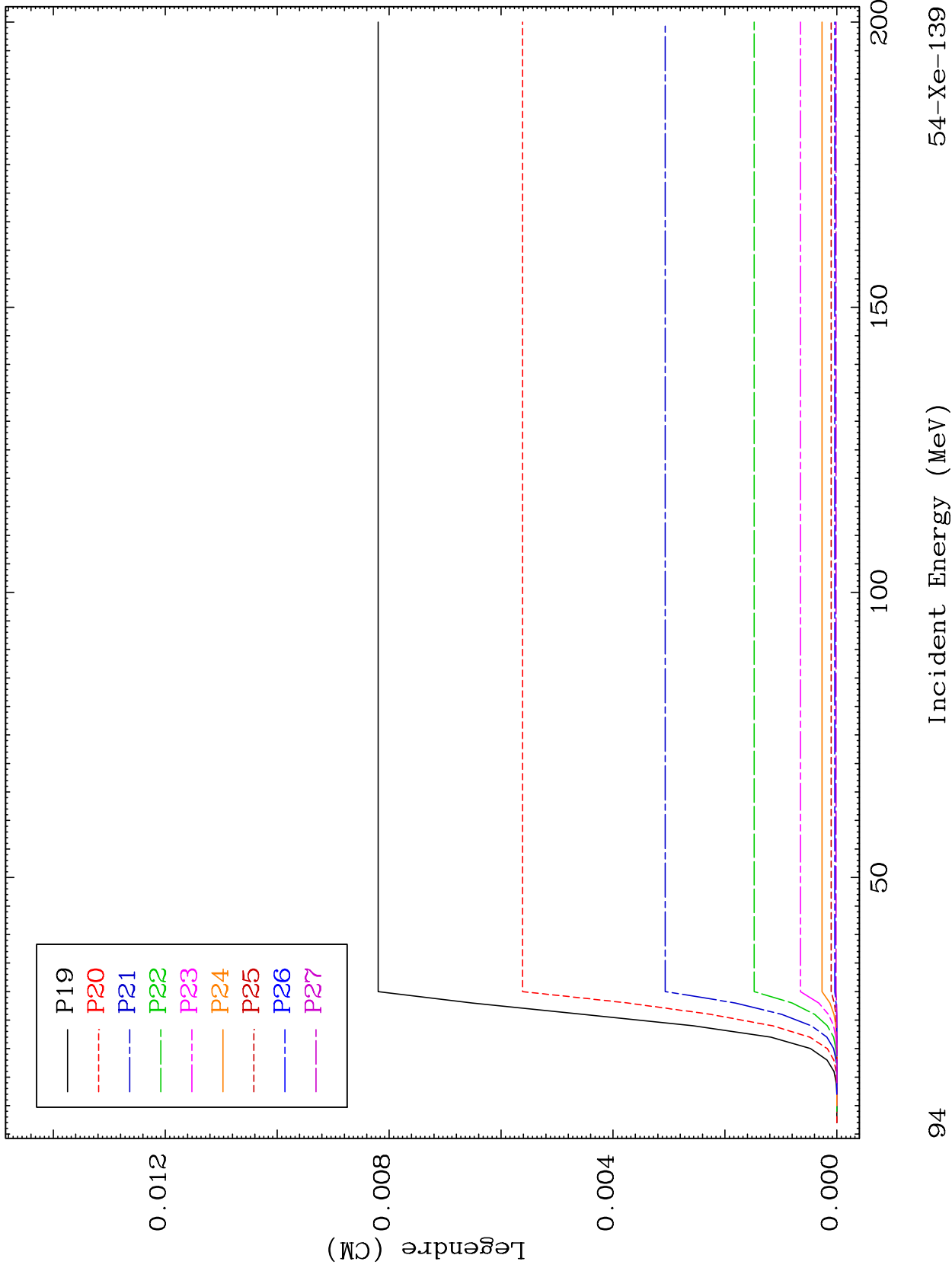
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



94

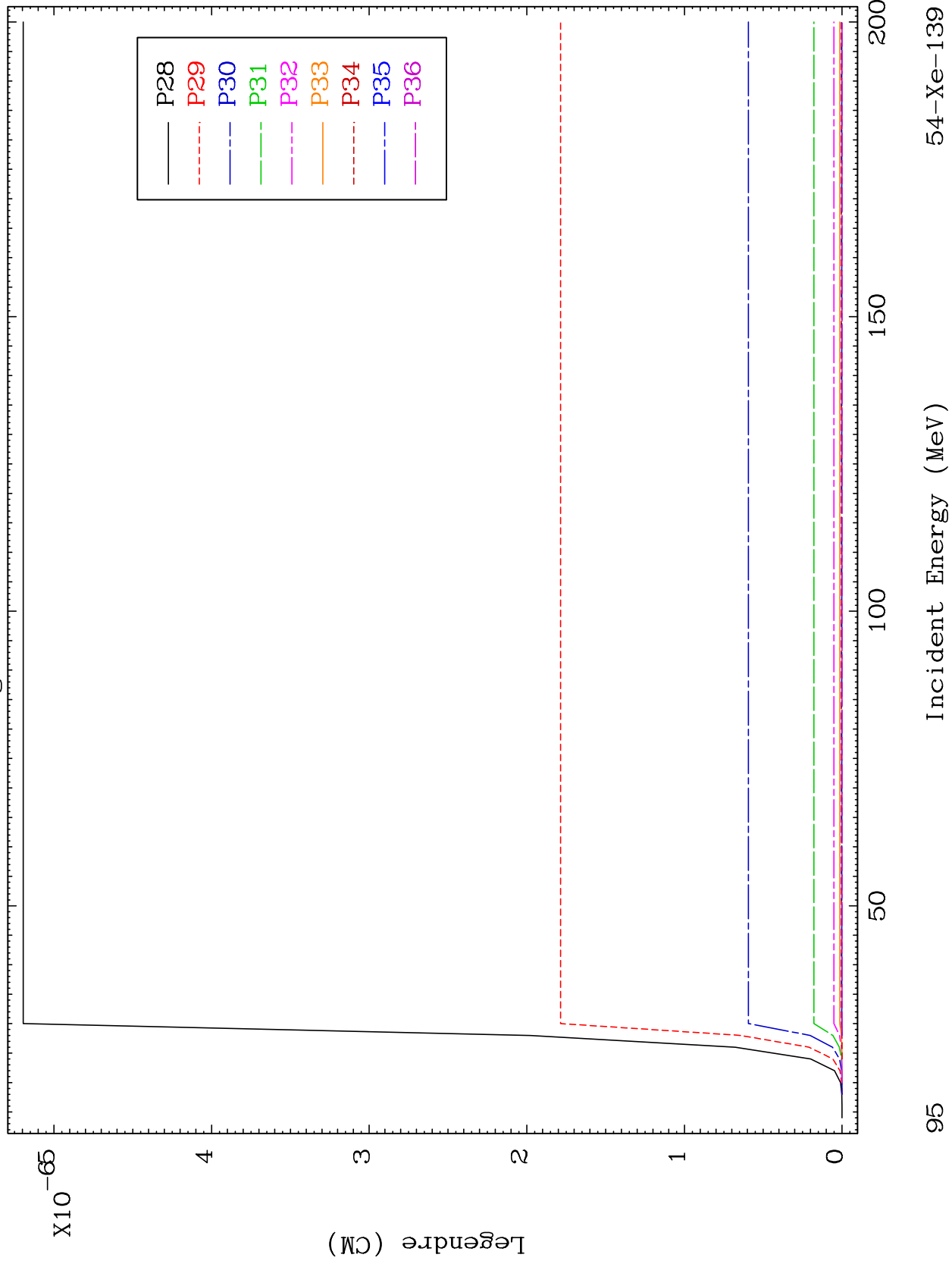
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



95

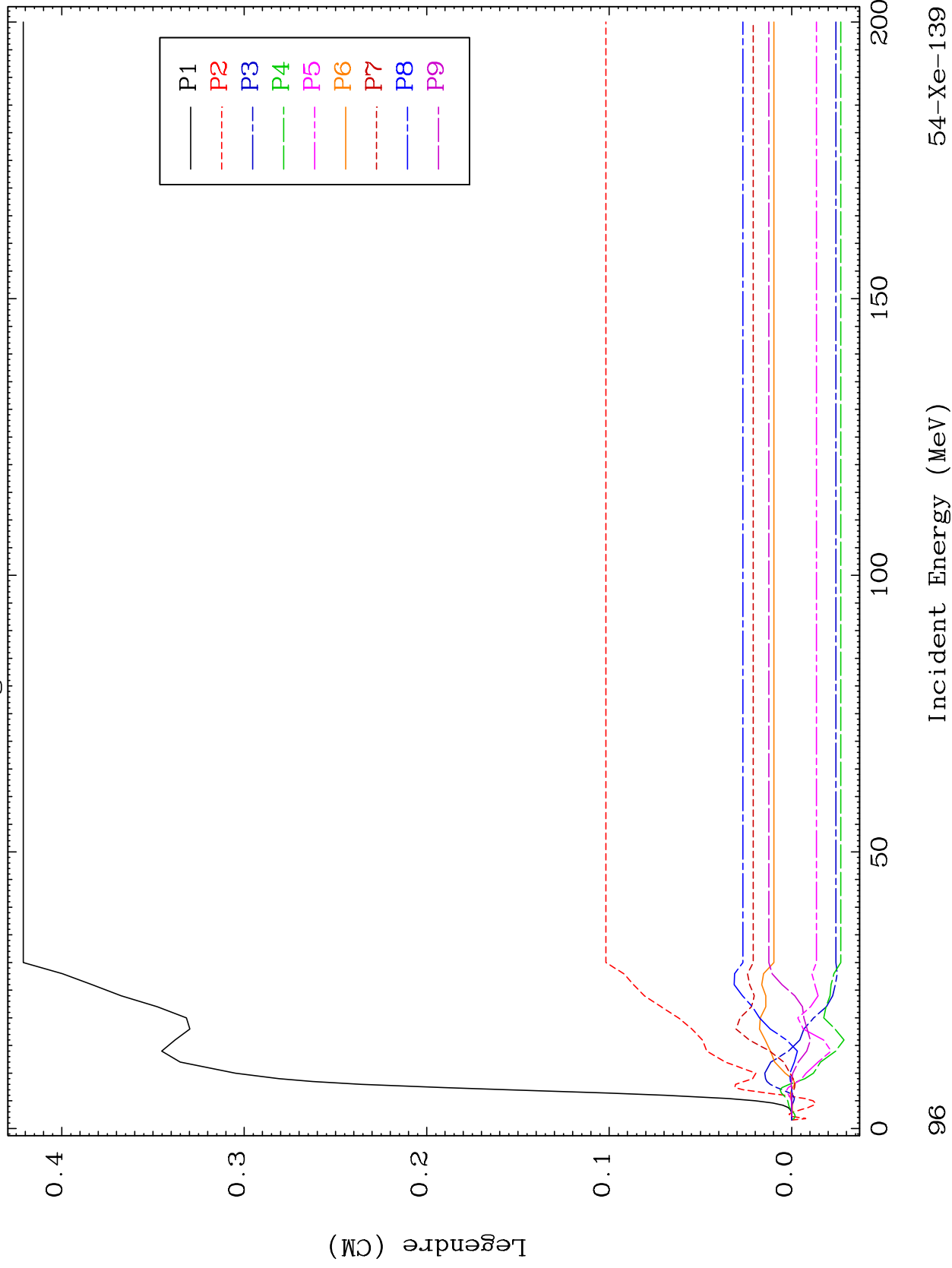
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



54-Xe-139

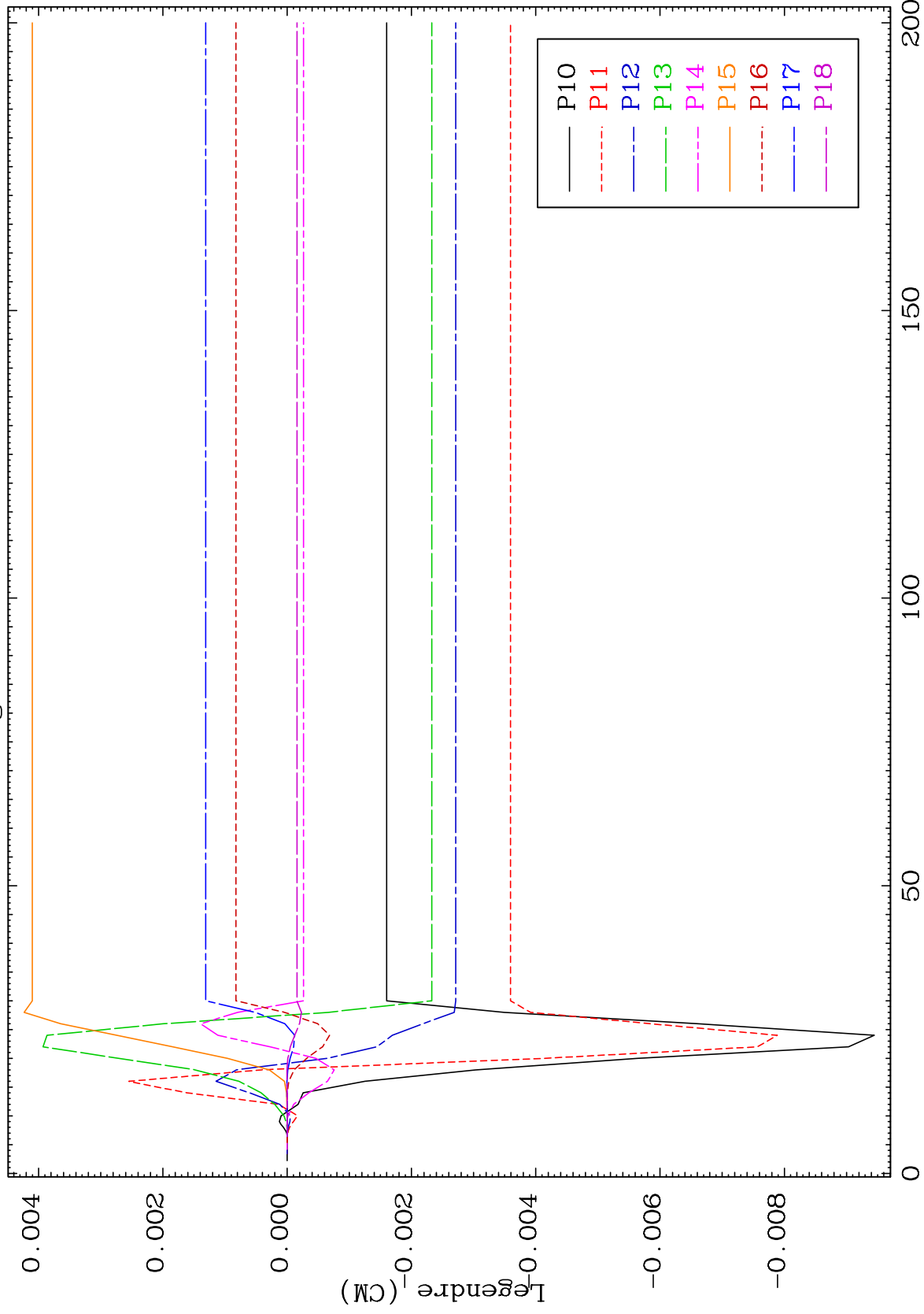
Incident Energy (MeV)

96

MAT 5470

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

54-Xe-139



97

Incident Energy (MeV)

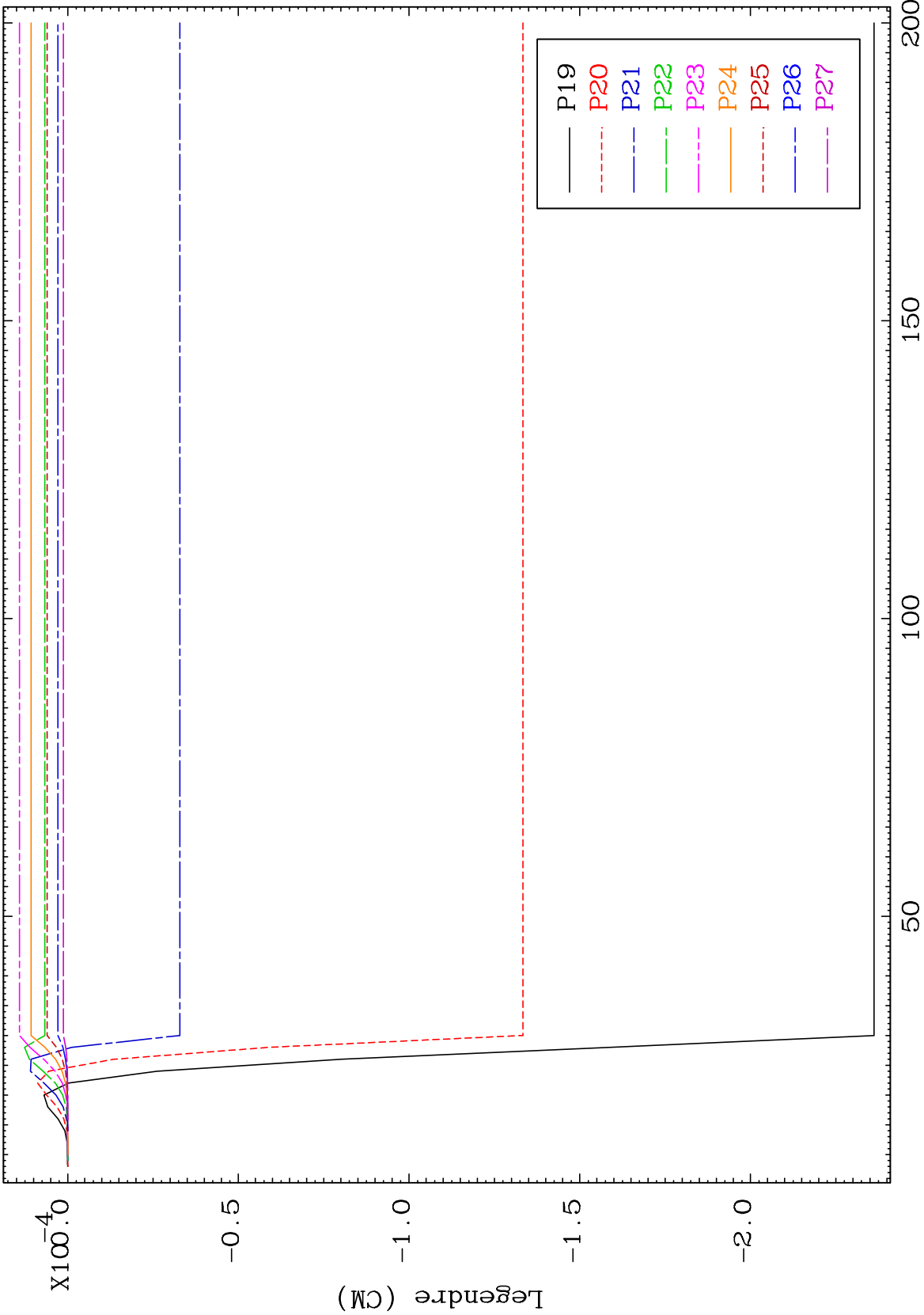
54-Xe-139

MAT 5470

MT= 70 (n,n') Level

54-Xe-139

Legendre Coefficients



54-Xe-139

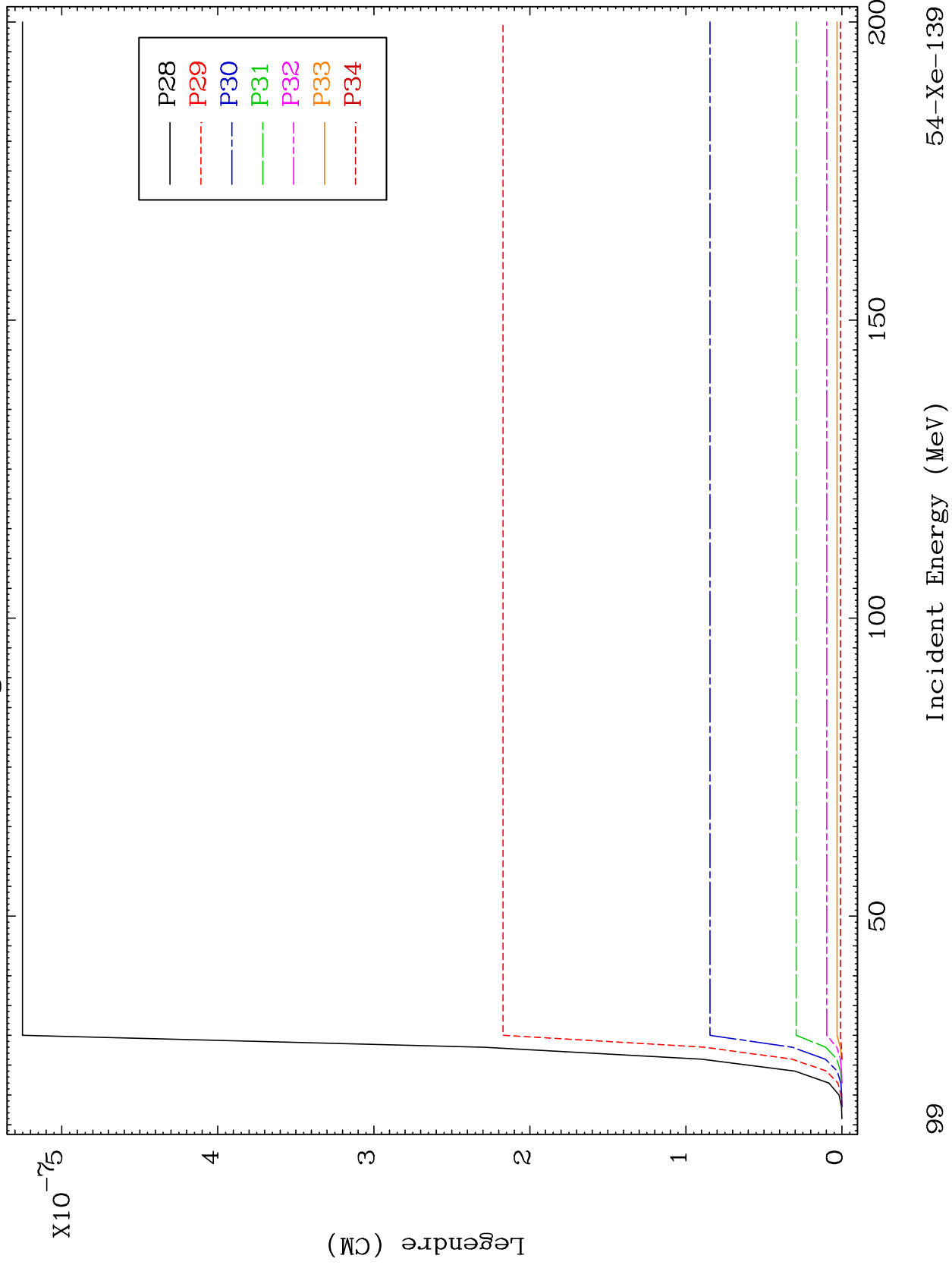
Incident Energy (MeV)

98

MAT 5470

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

54-Xe-139



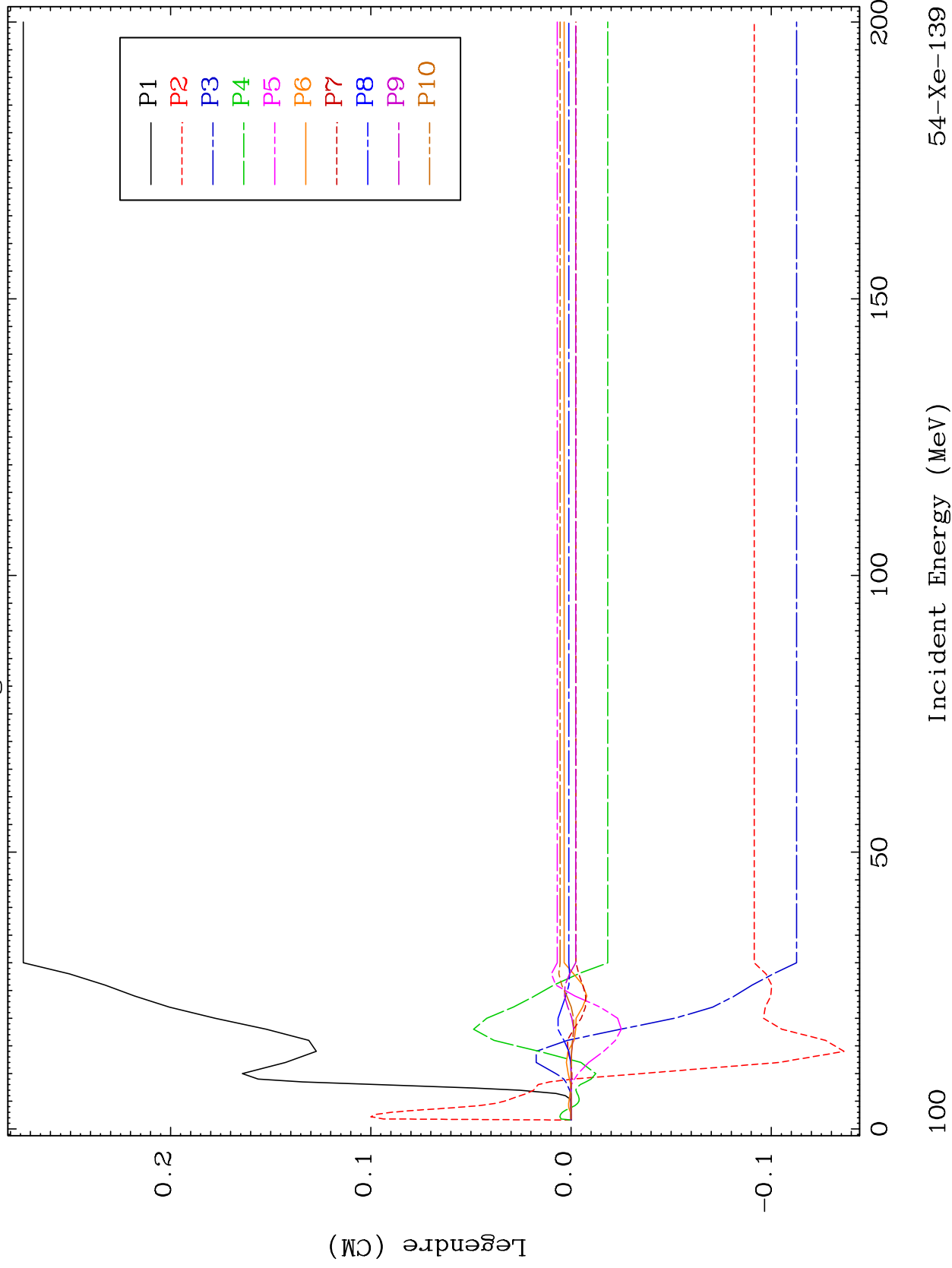
99

54-Xe-139

MAT 5470

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

54-Xe-139



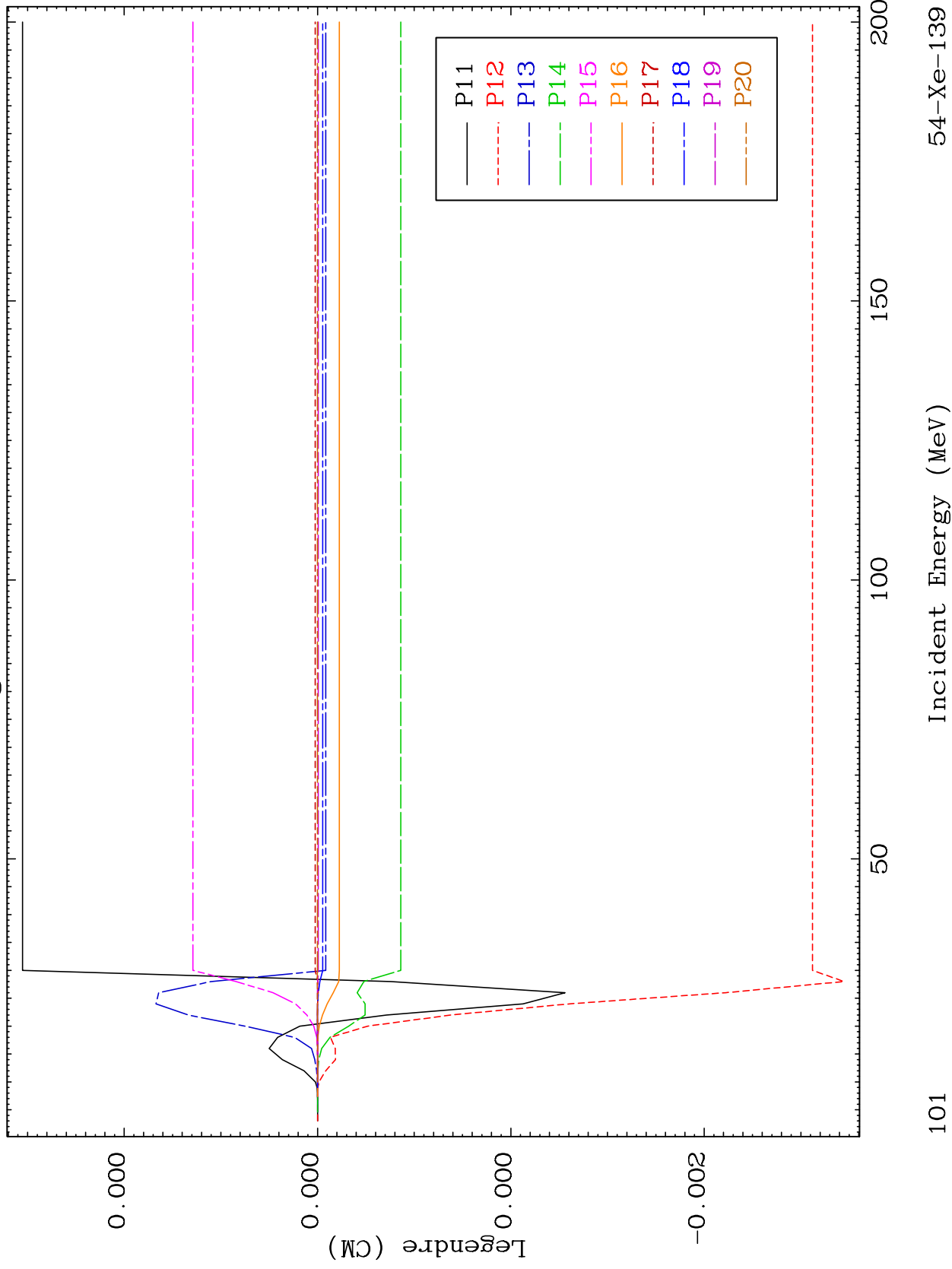
54-Xe-139

Incident Energy (MeV)

MAT 5470

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

54-Xe-139



101

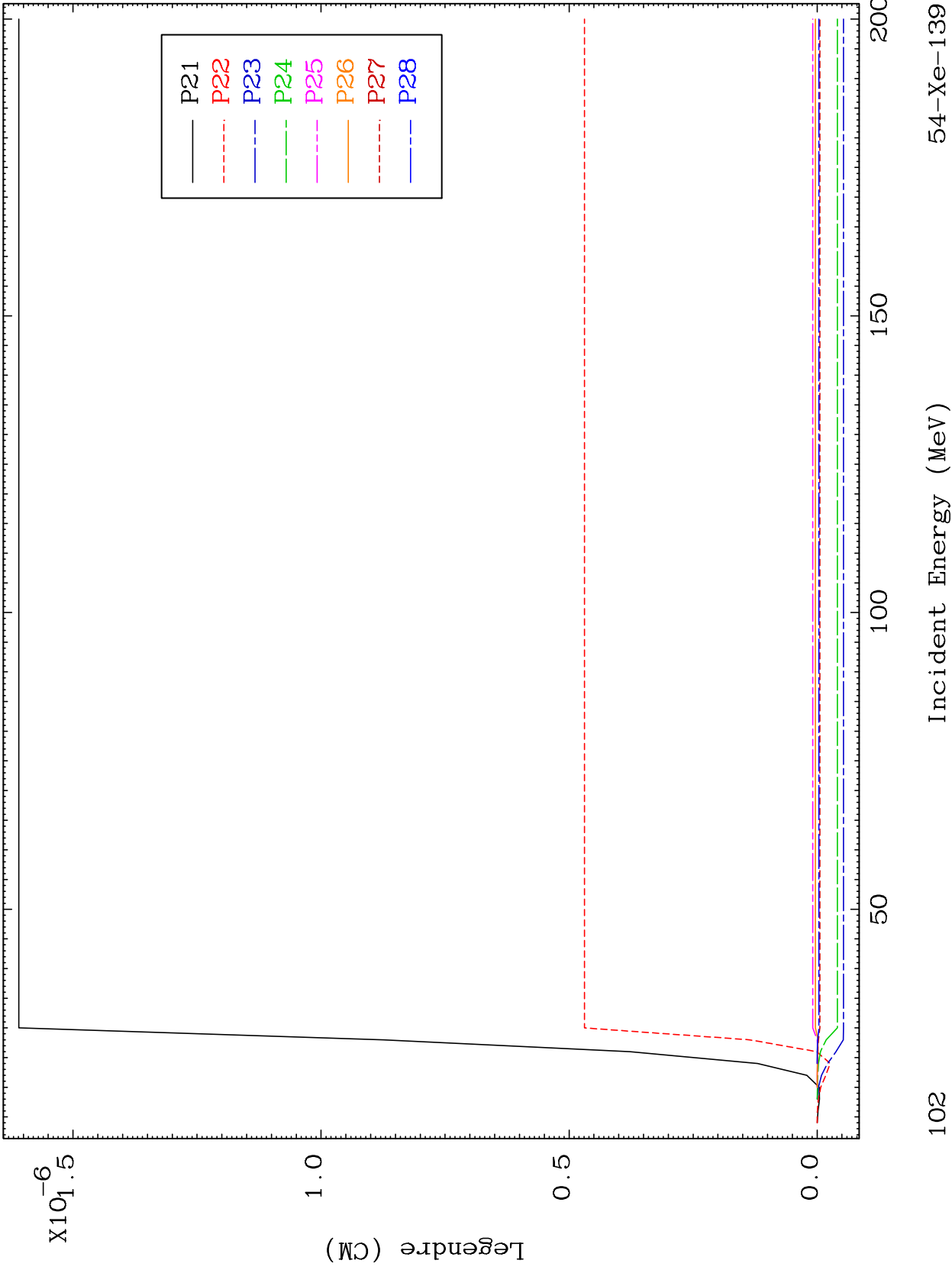
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



102

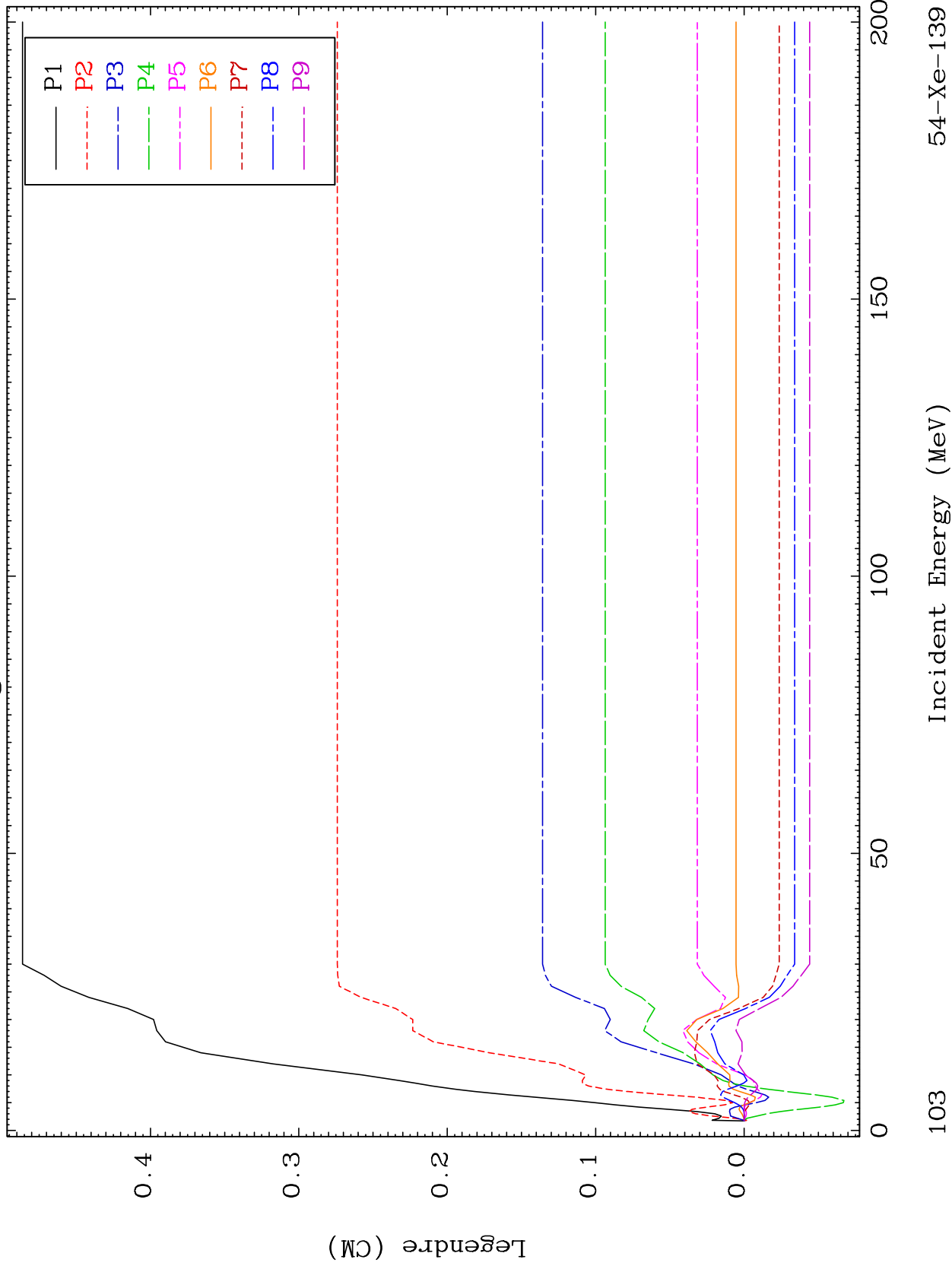
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



54-Xe-139

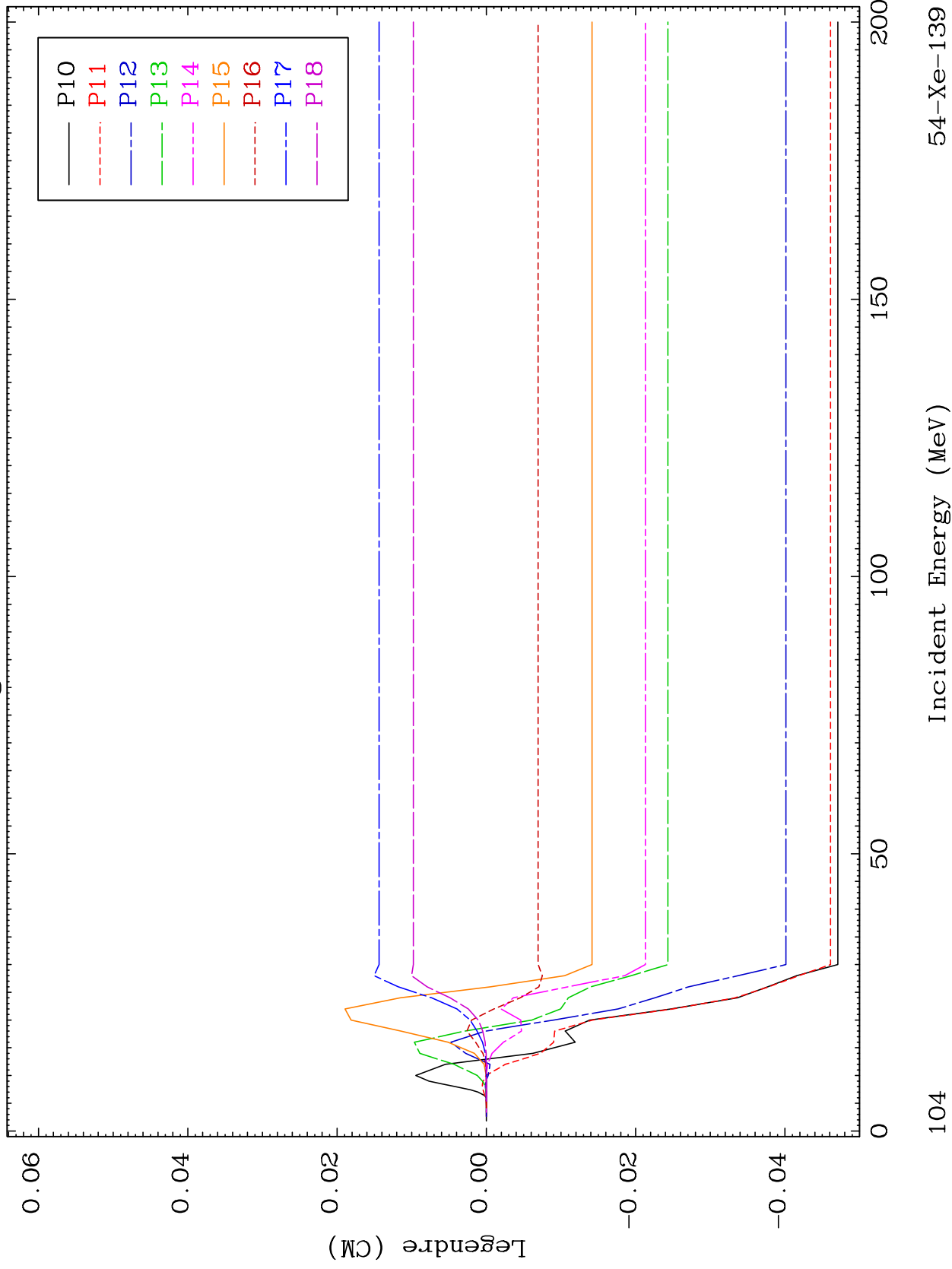
Incident Energy (MeV)

103

MAT 5470

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

54-Xe-139



104

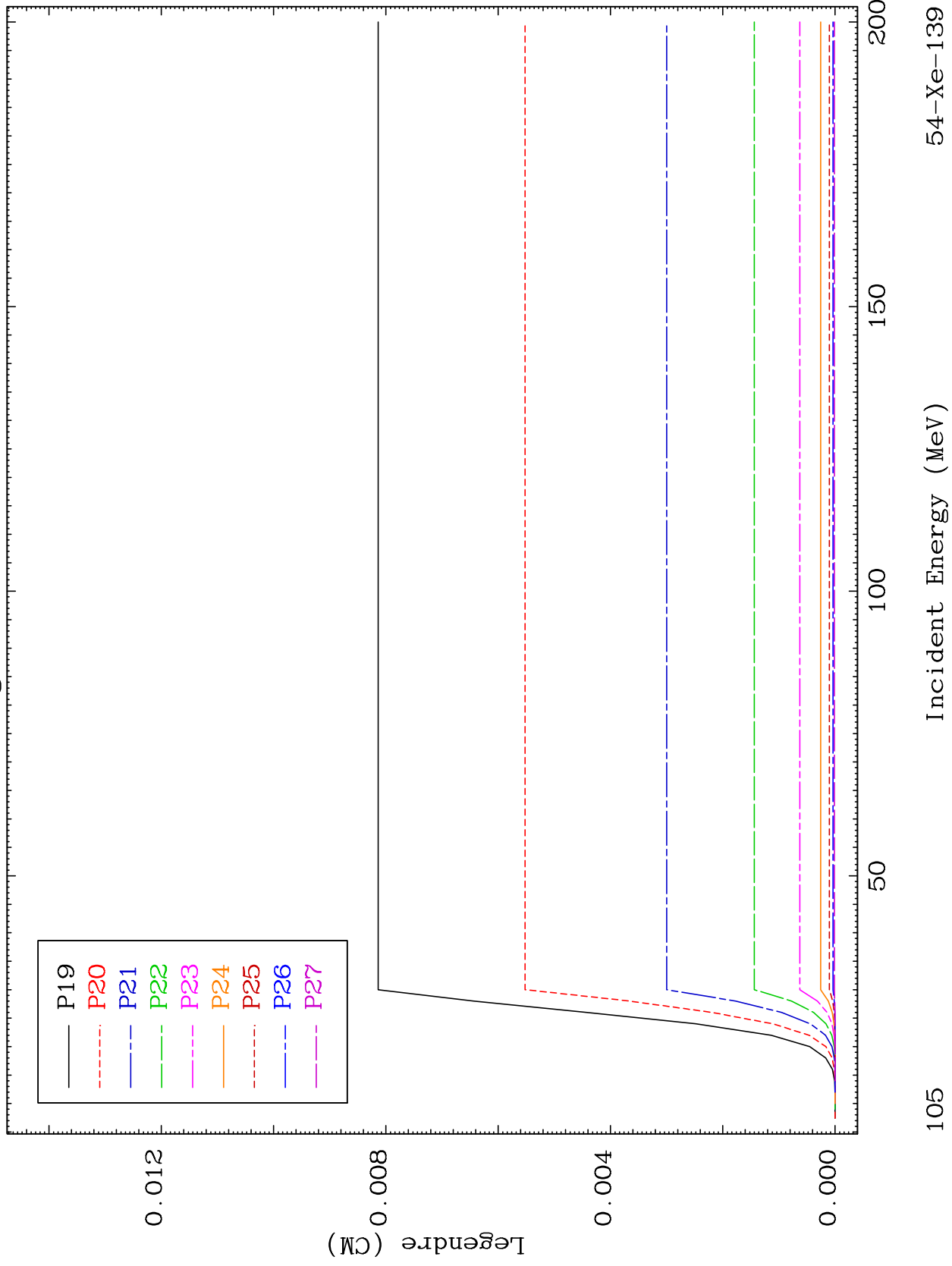
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



105

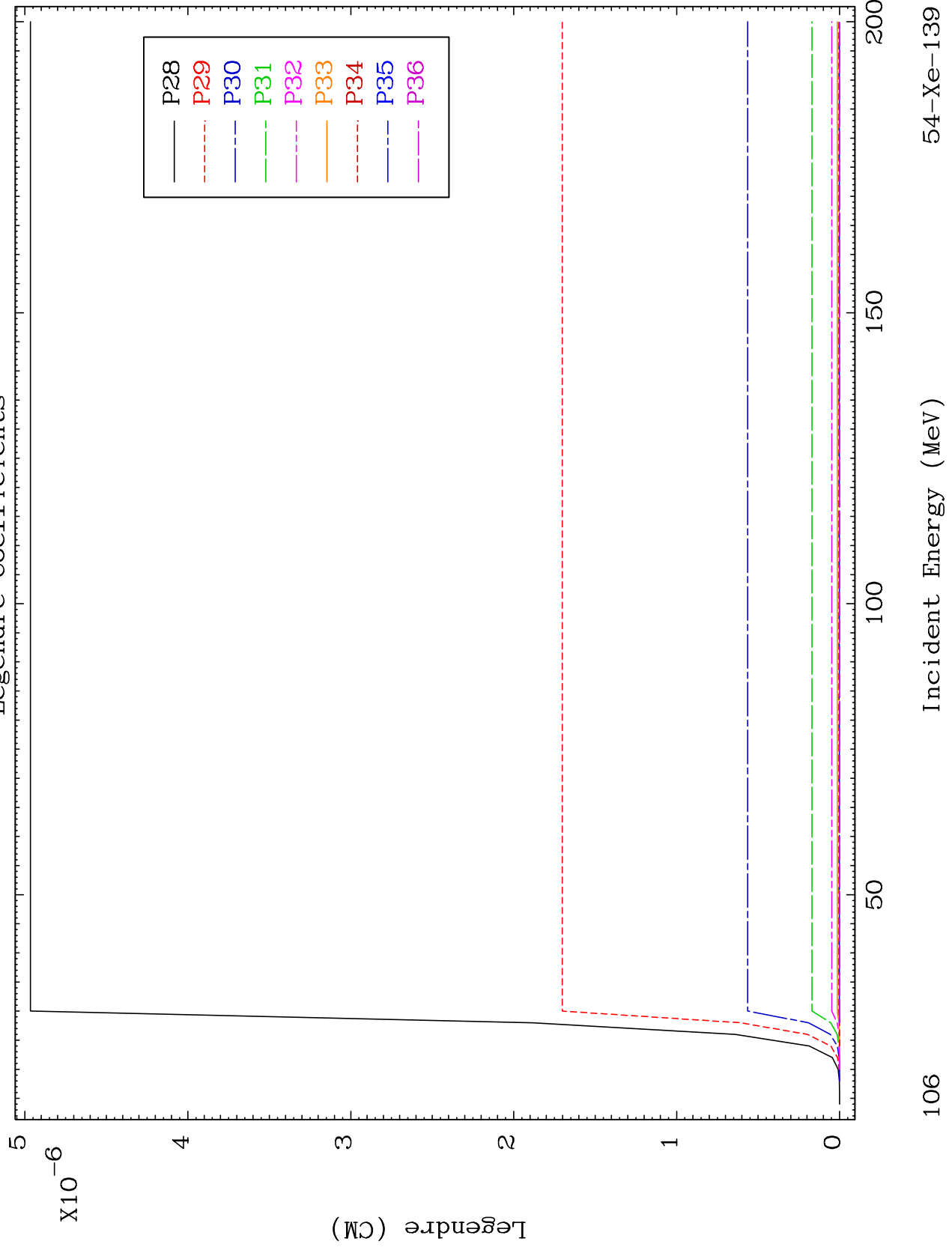
Incident Energy (MeV)

54-Xe-139

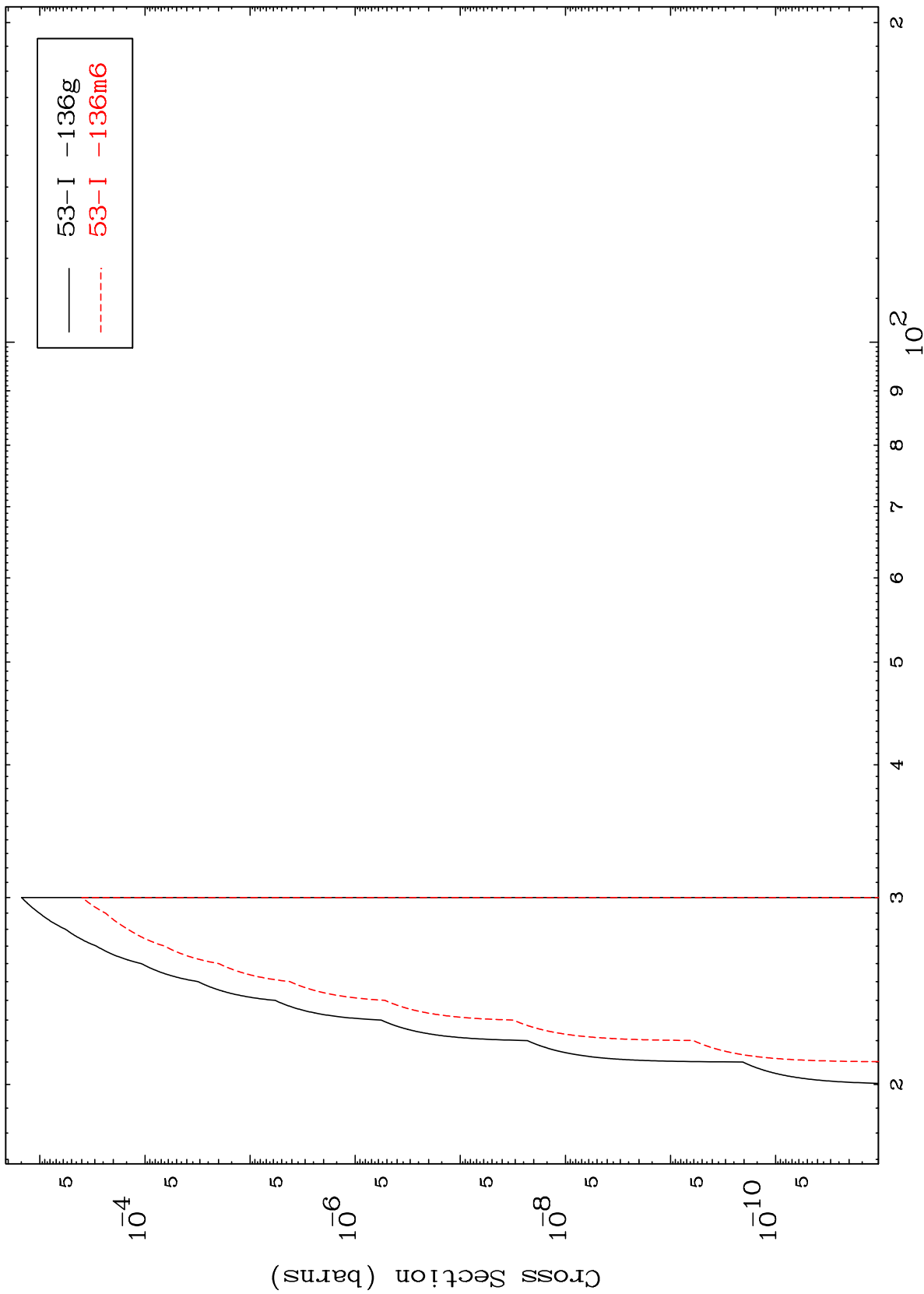
MAT 5470

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

54-Xe-139

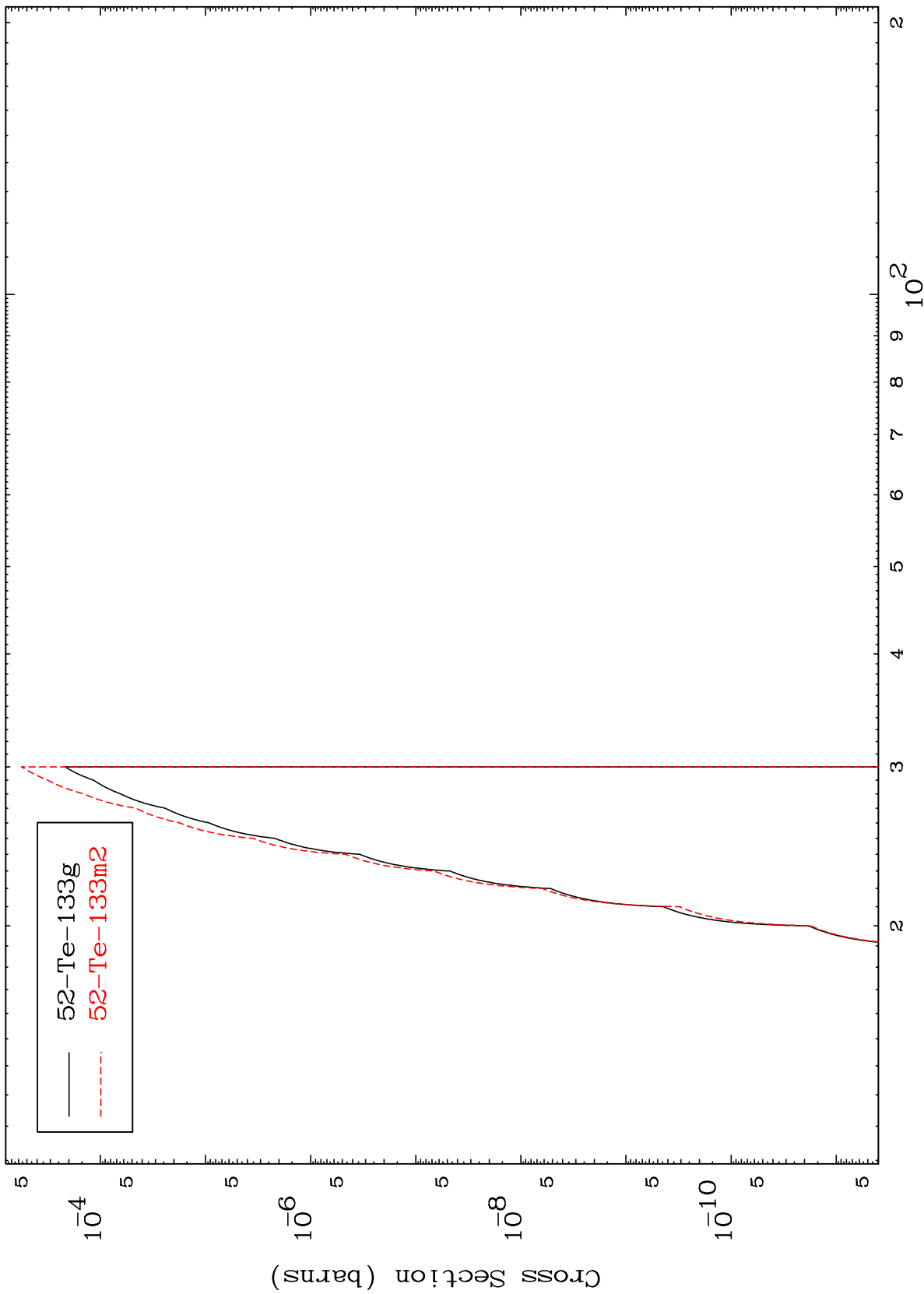


Radionuclide Production Cross Section

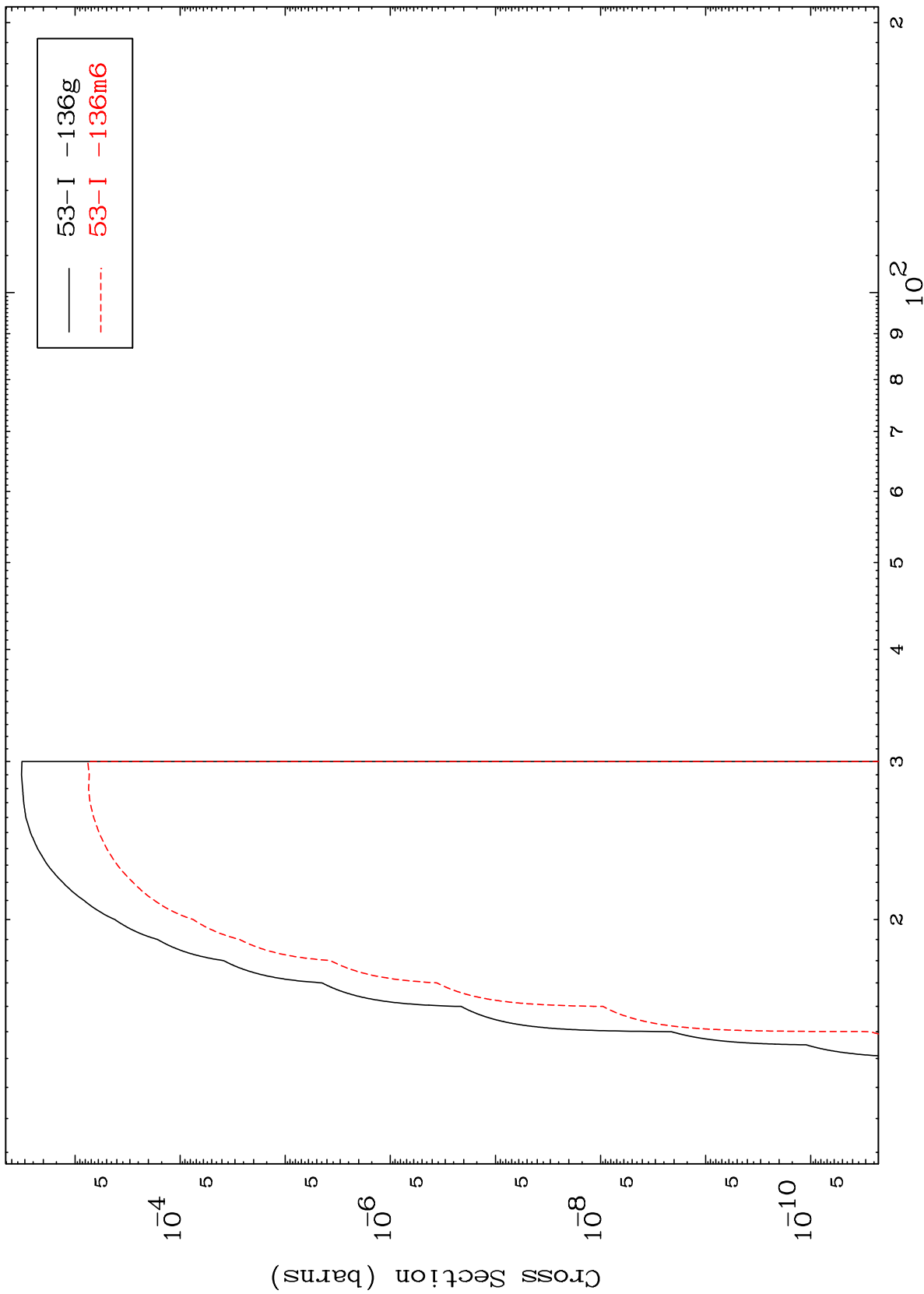


53-I-136g
53-I-136m6

Radionuclide Production Cross Section



Radionuclide Production Cross Section

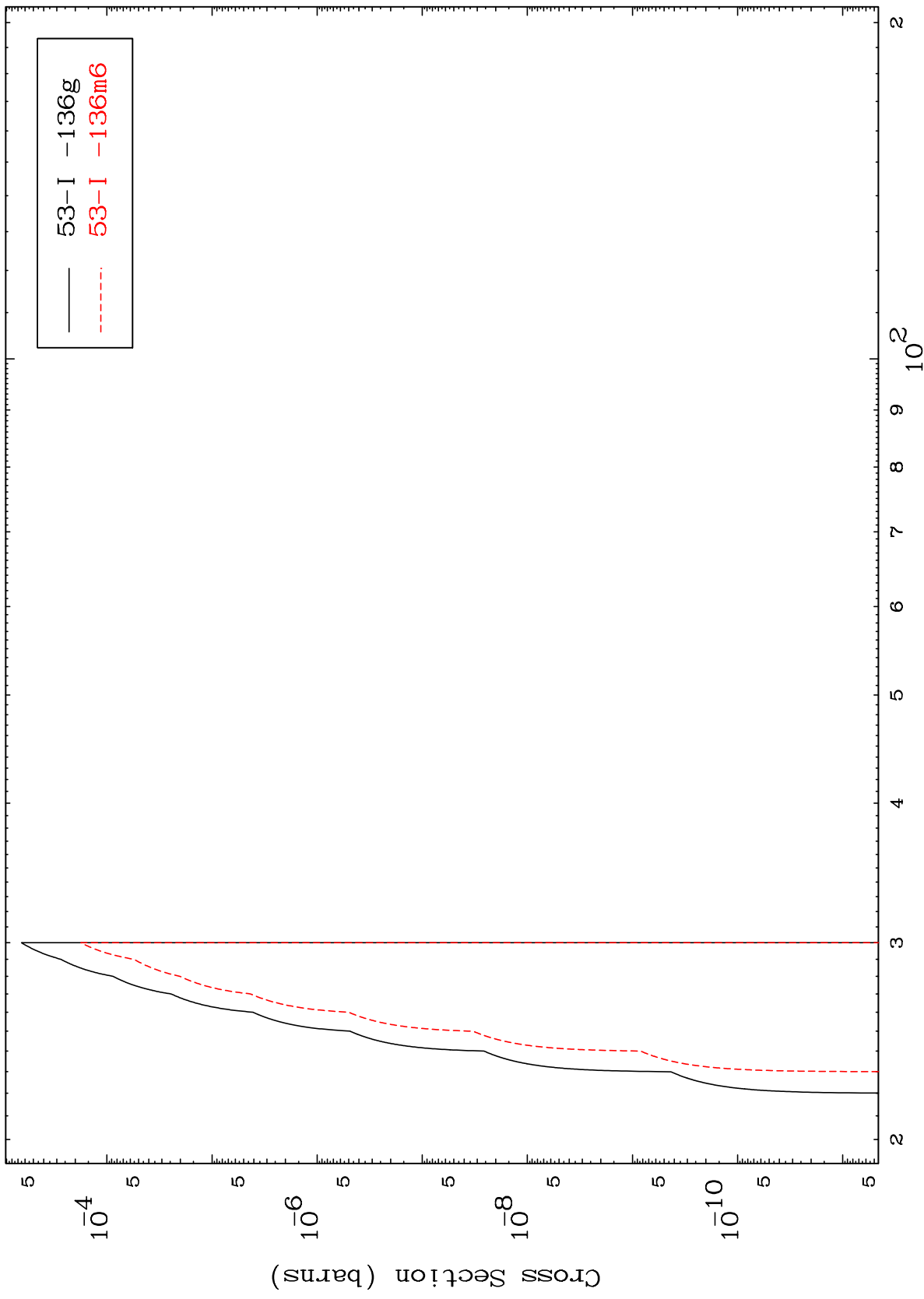


MAT 5470

(n,3n) p

54-Xe-139

Radionuclide Production Cross Section



110

Incident Energy (MeV)

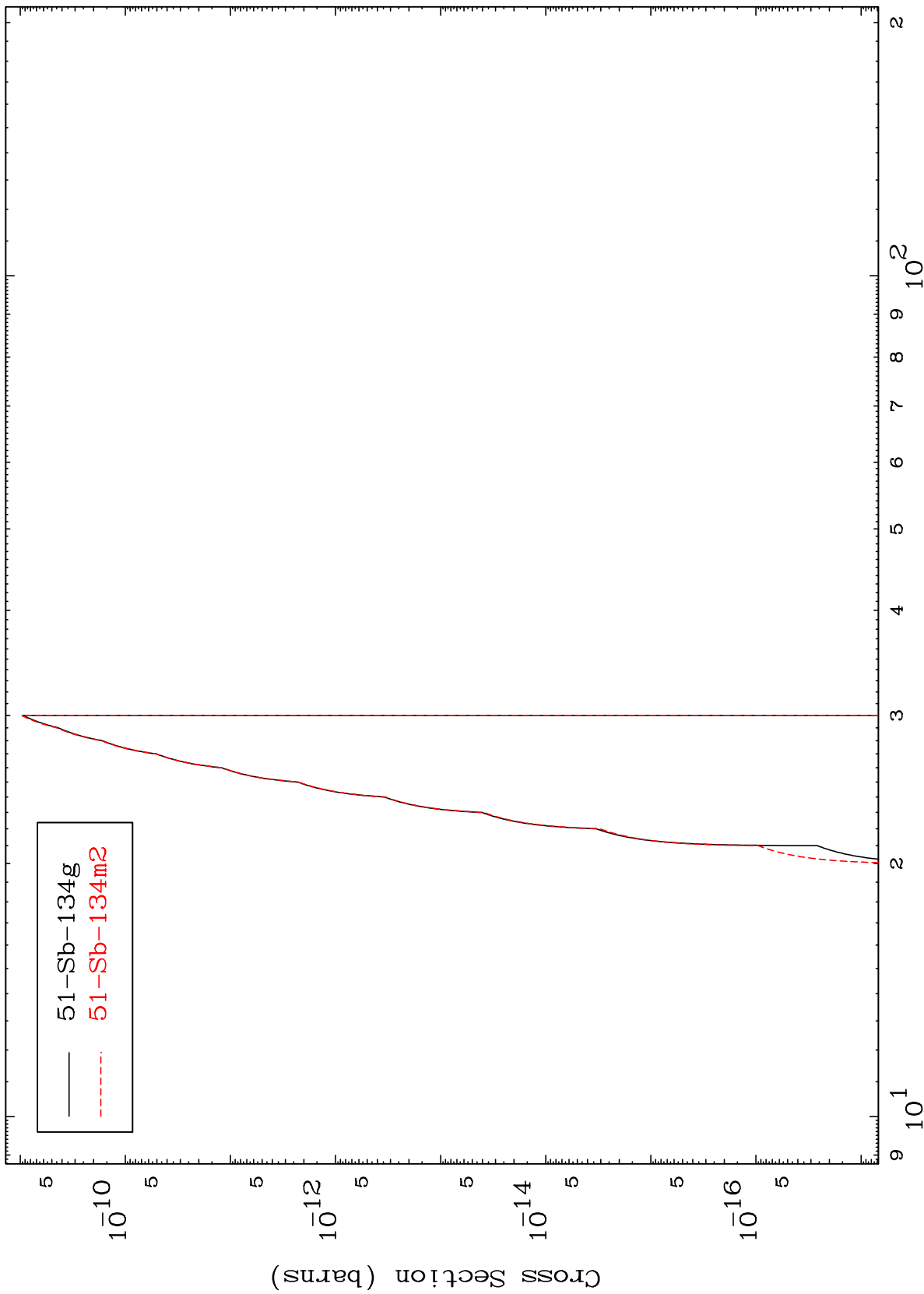
54-Xe-139

MAT 5470

(n,d) α

54-Xe-139

Radionuclide Production Cross Section



51-Sb-134g
51-Sb-134m2

111

Incident Energy (MeV)

54-Xe-139