

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

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

Tele: 925-443-1911

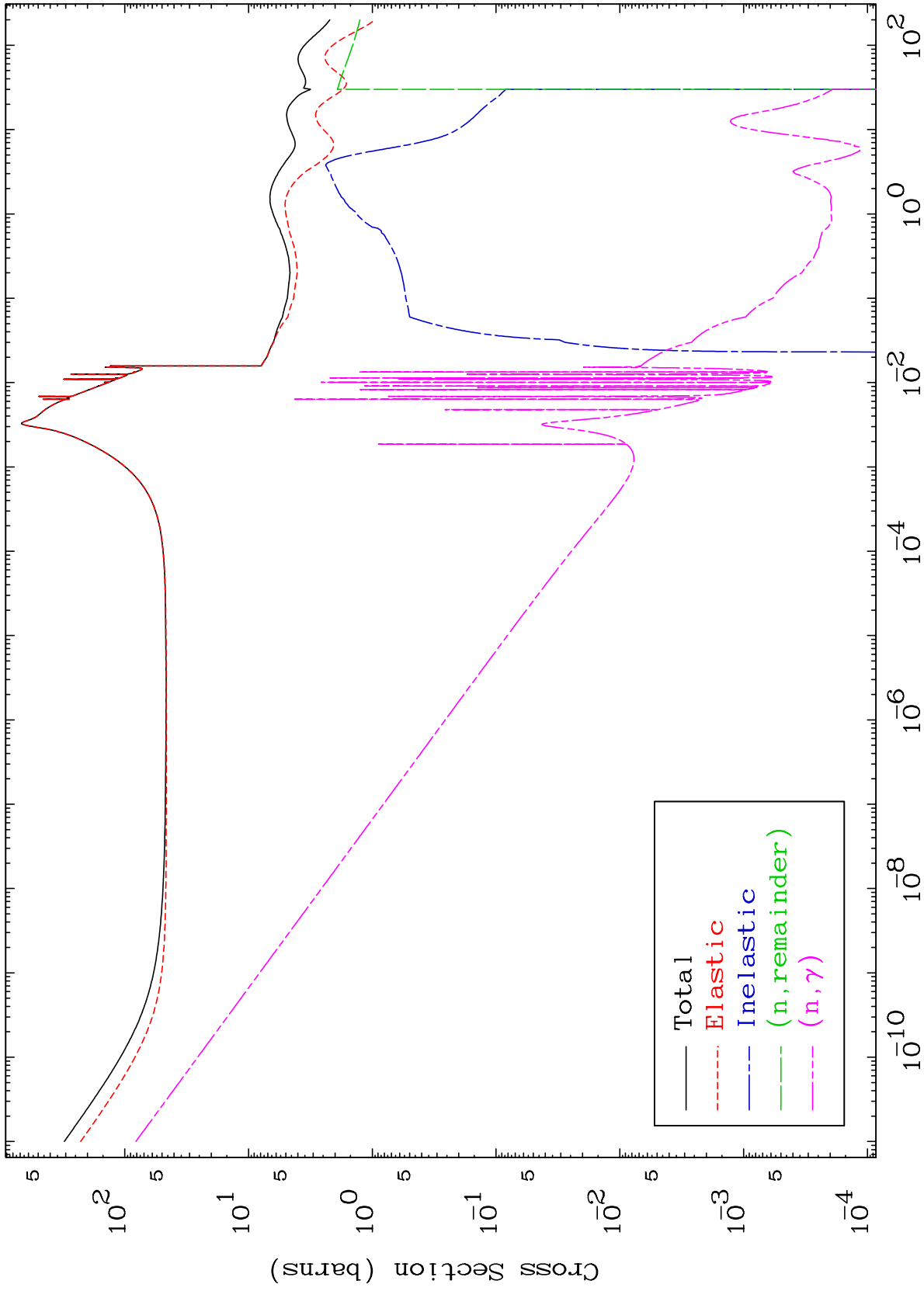
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5470

Major
293 Kelvin Cross Sections

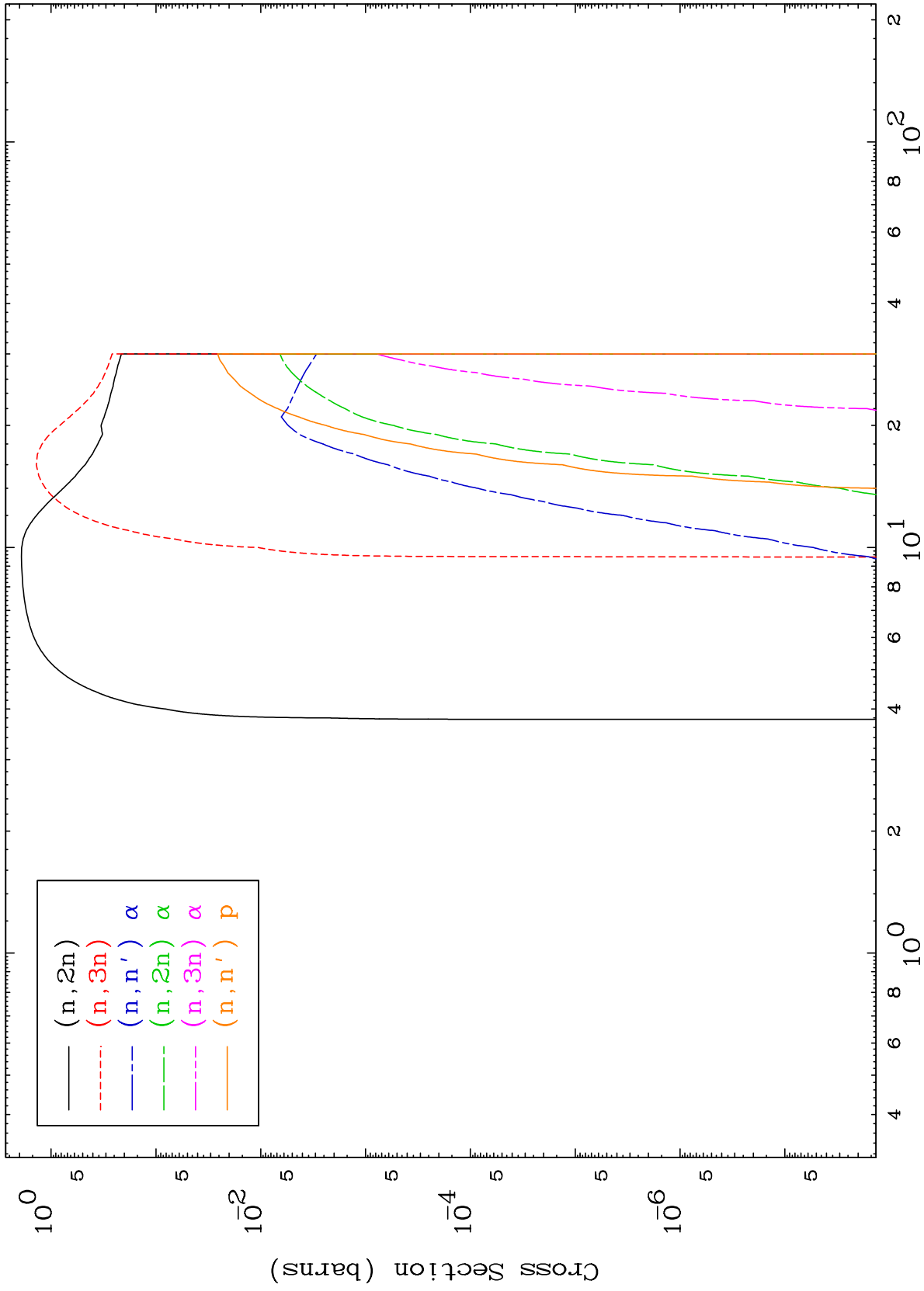
54-Xe-139



MAT 5470

Neutron Production
293 Kelvin Cross Sections

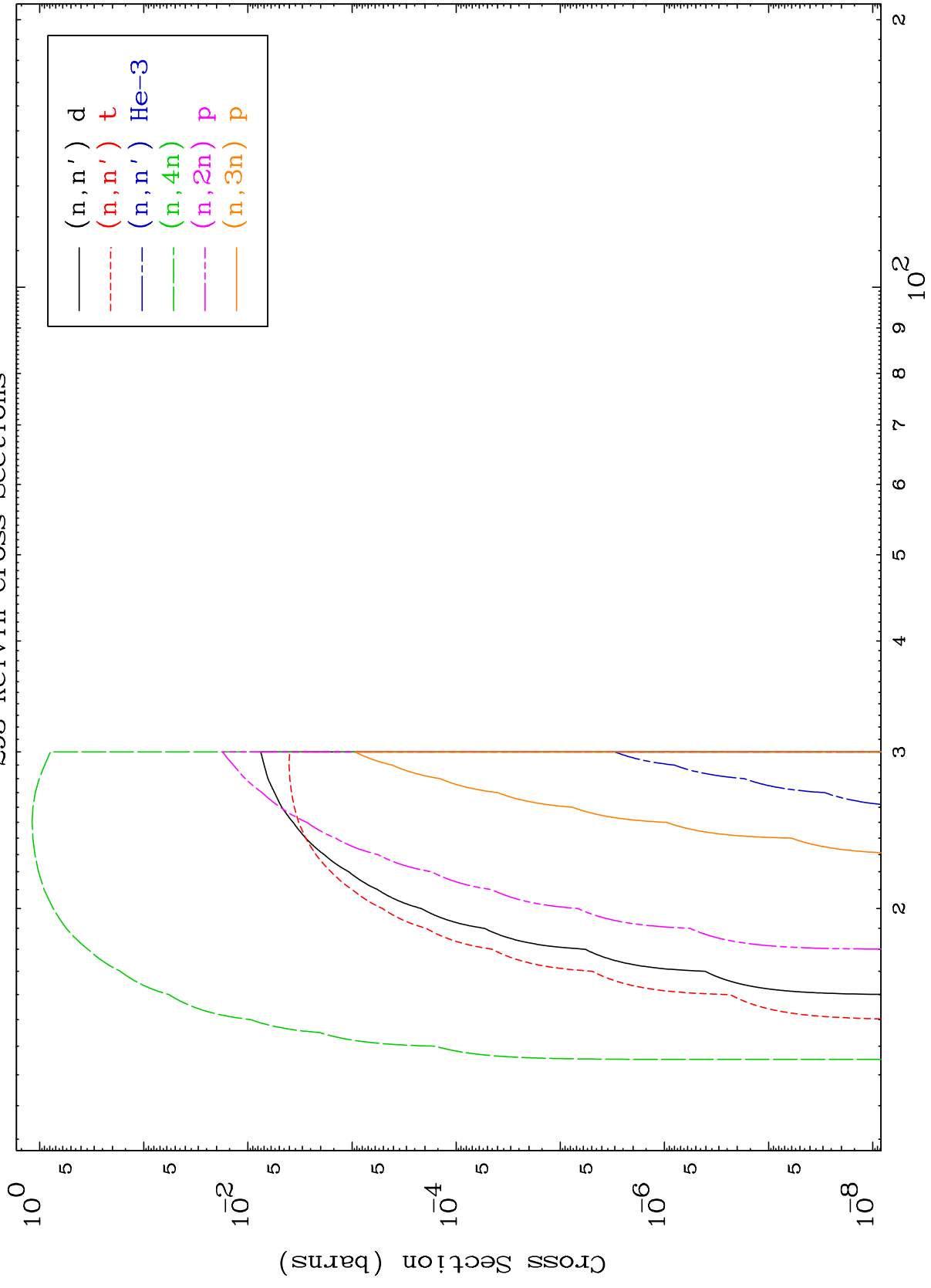
54-Xe-139



2

Incident Energy (MeV)

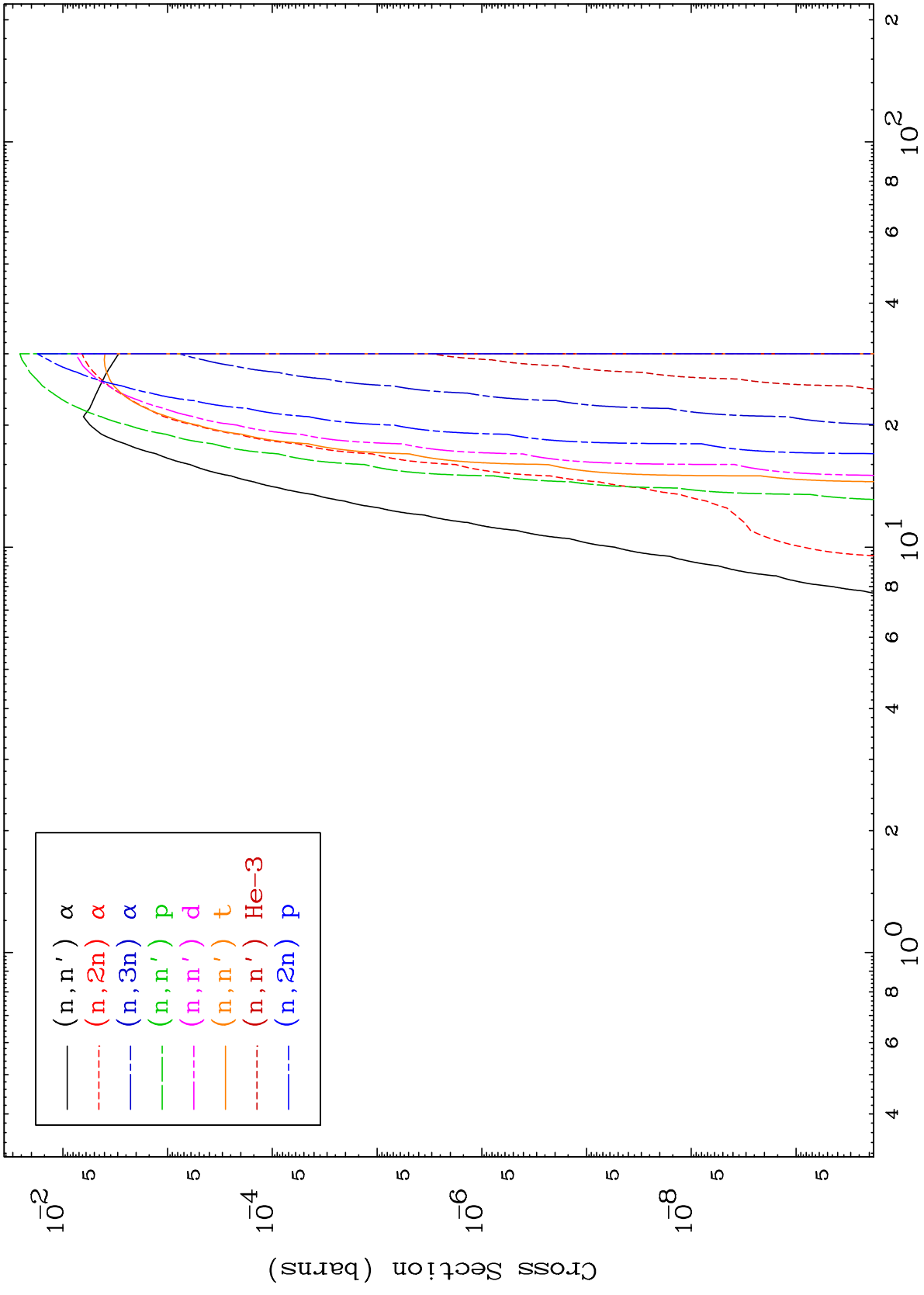
54-Xe-139



MAT 5470

293 Kelvin Cross Sections
Charged Particle

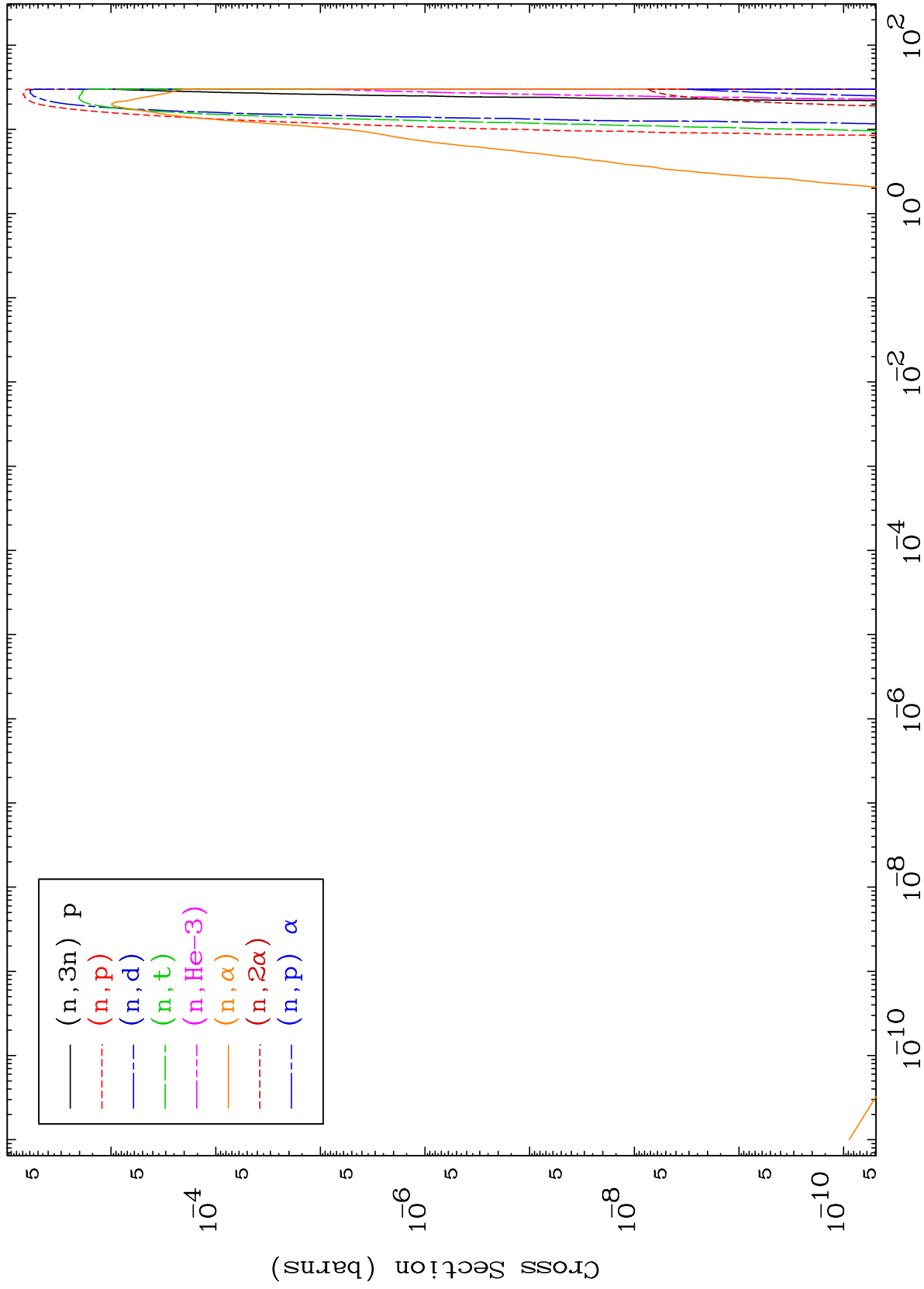
54-Xe-139



MAT 5470

Charged Particle
293 Kelvin Cross Sections

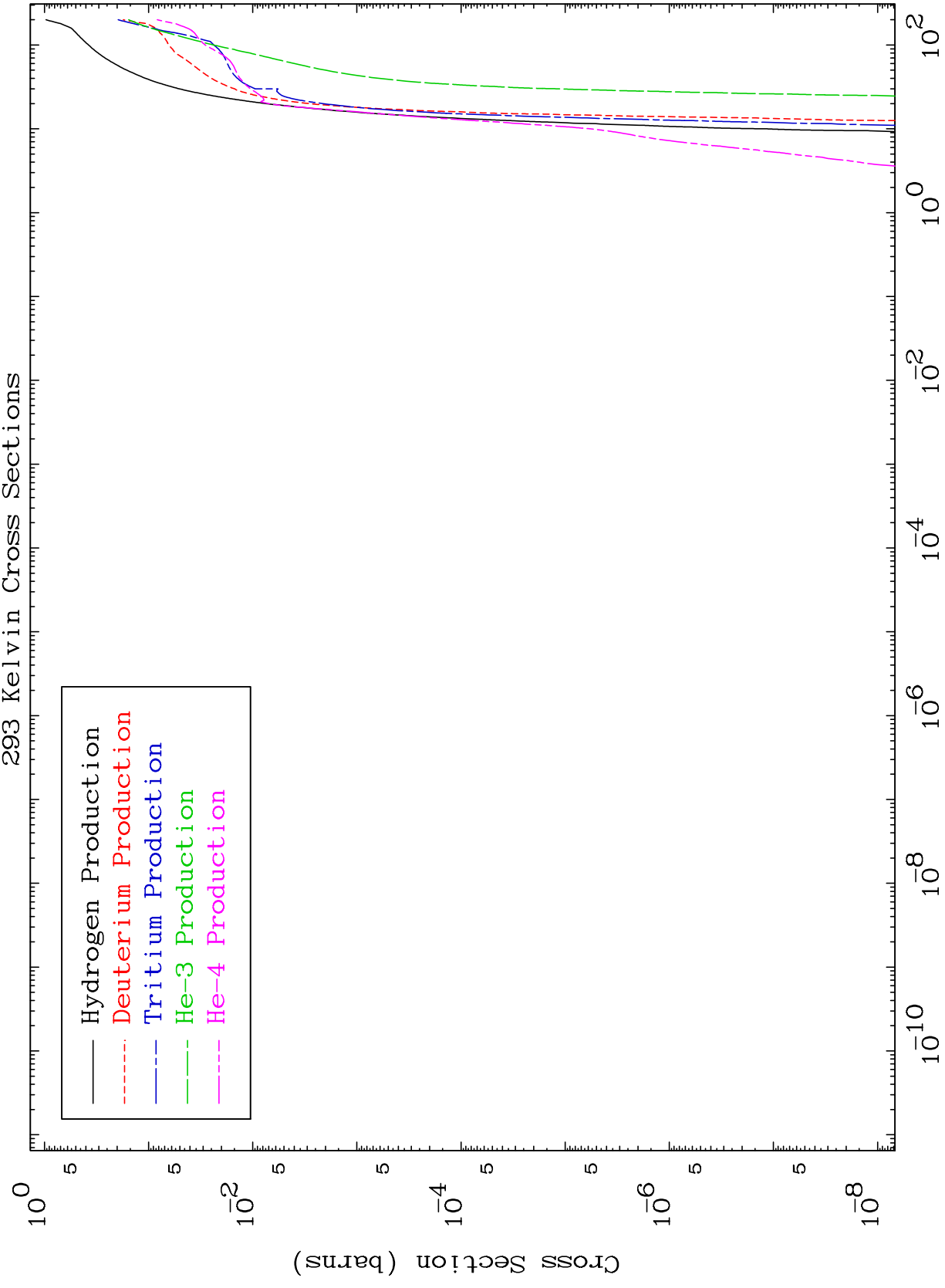
54-Xe-139



MAT 5470

Particle Production
293 Kelvin Cross Sections

54-Xe-139



6

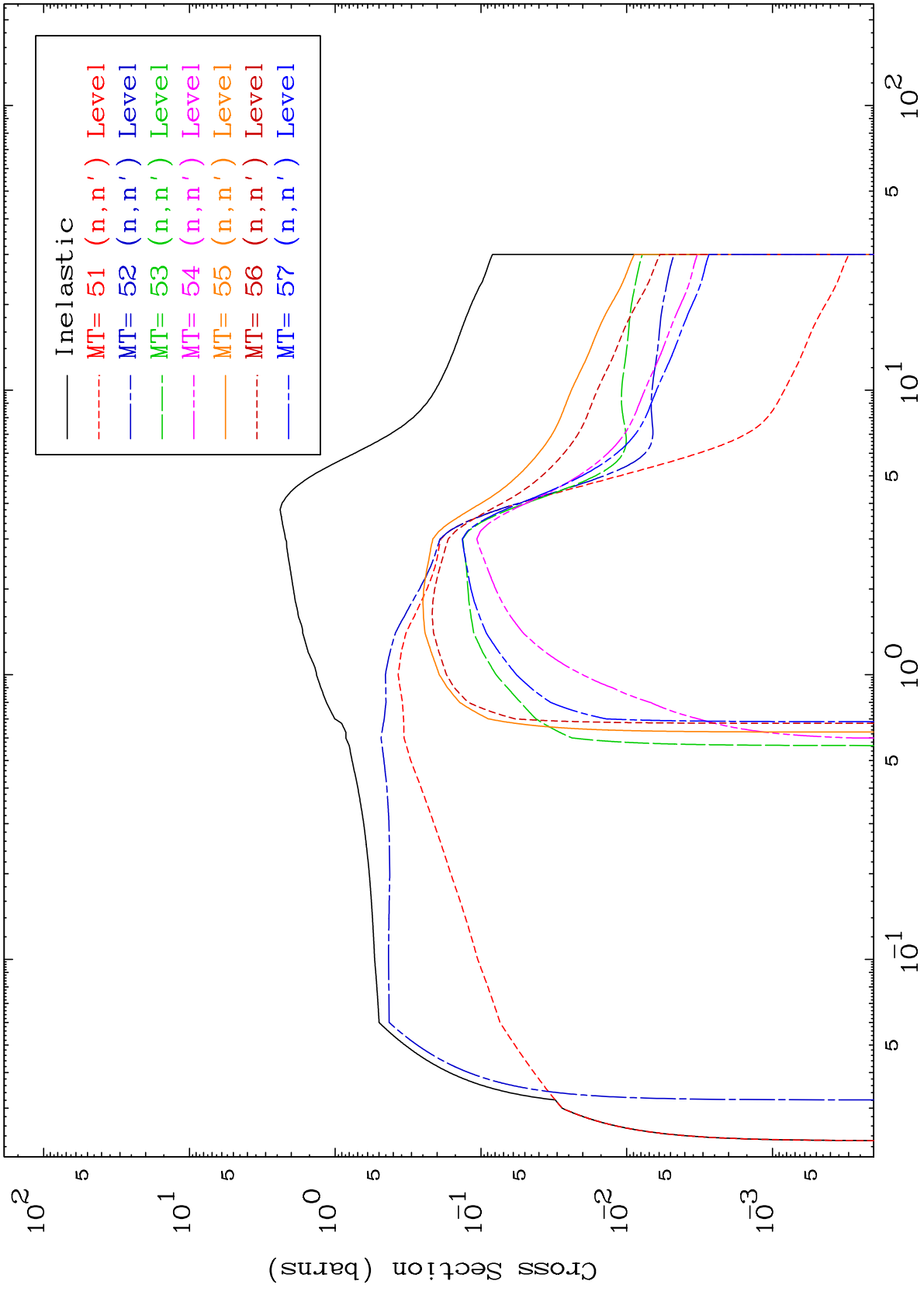
54-Xe-139

MAT 5470

(n,n') Level

54-Xe-139

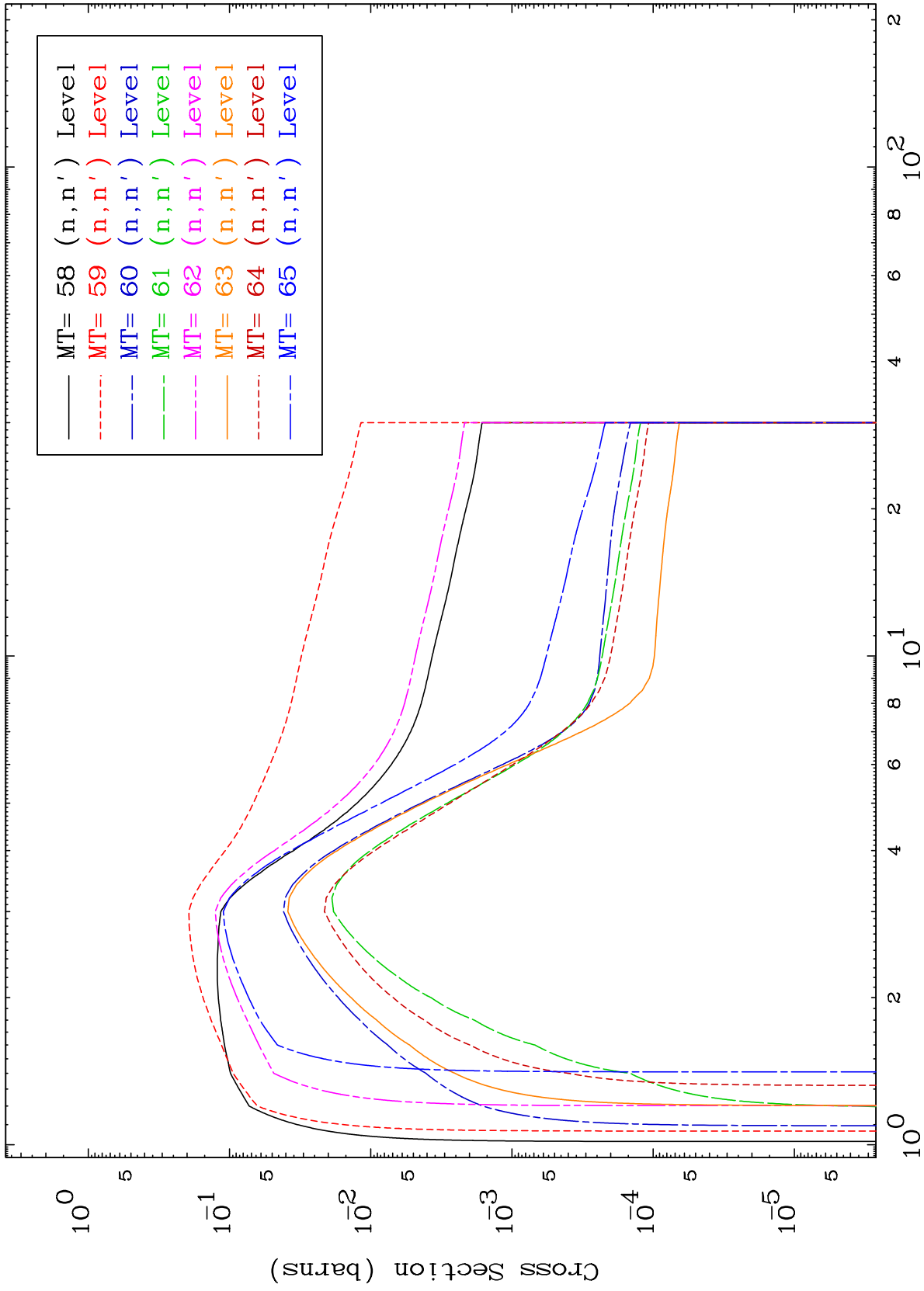
293 Kelvin Cross Sections



MAT 5470

(n,n') Level
293 Kelvin Cross Sections

54-Xe-139



Incident Energy (MeV)

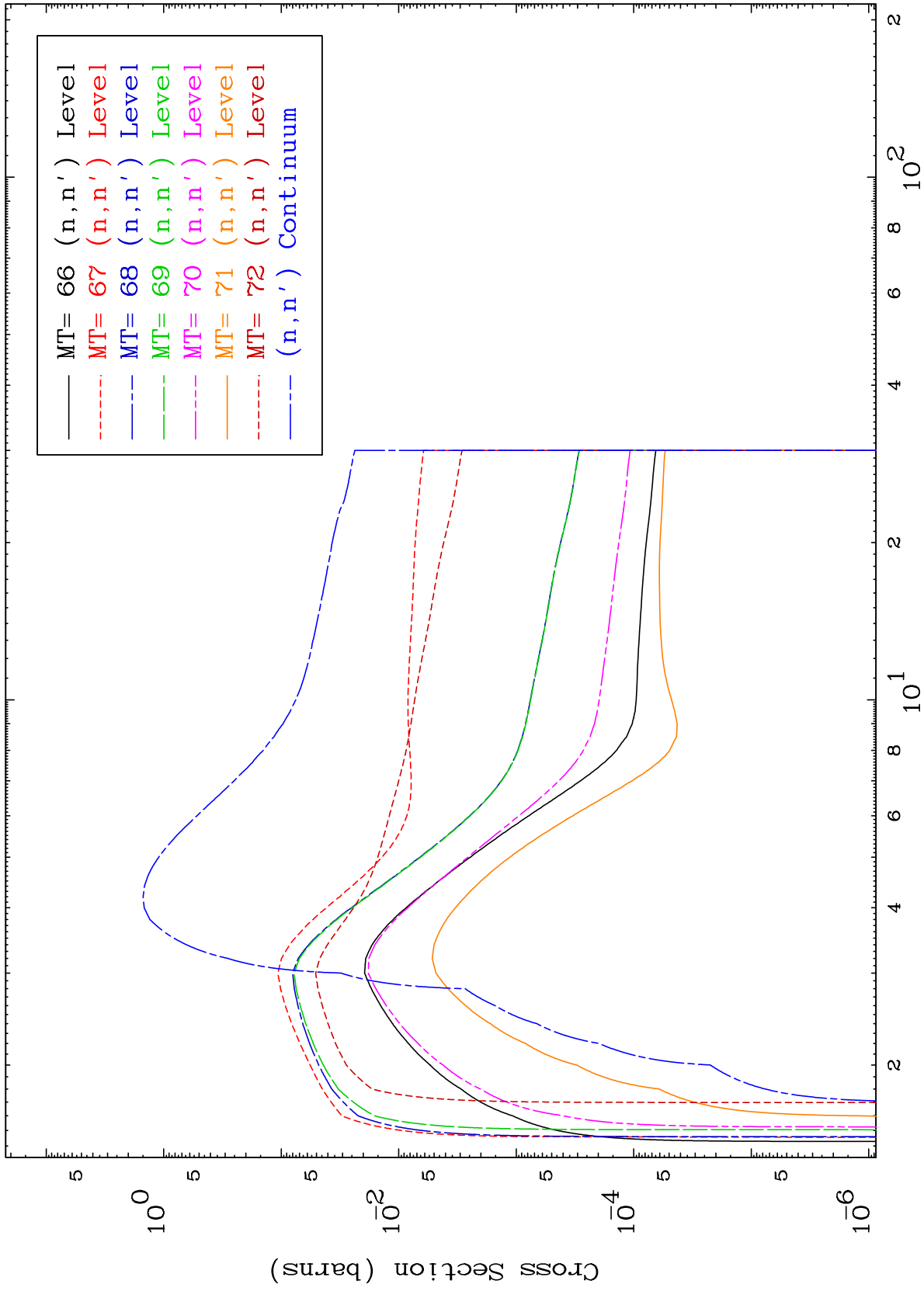
54-Xe-139

MAT 5470

(n,n') Level

54-Xe-139

293 Kelvin Cross Sections



9

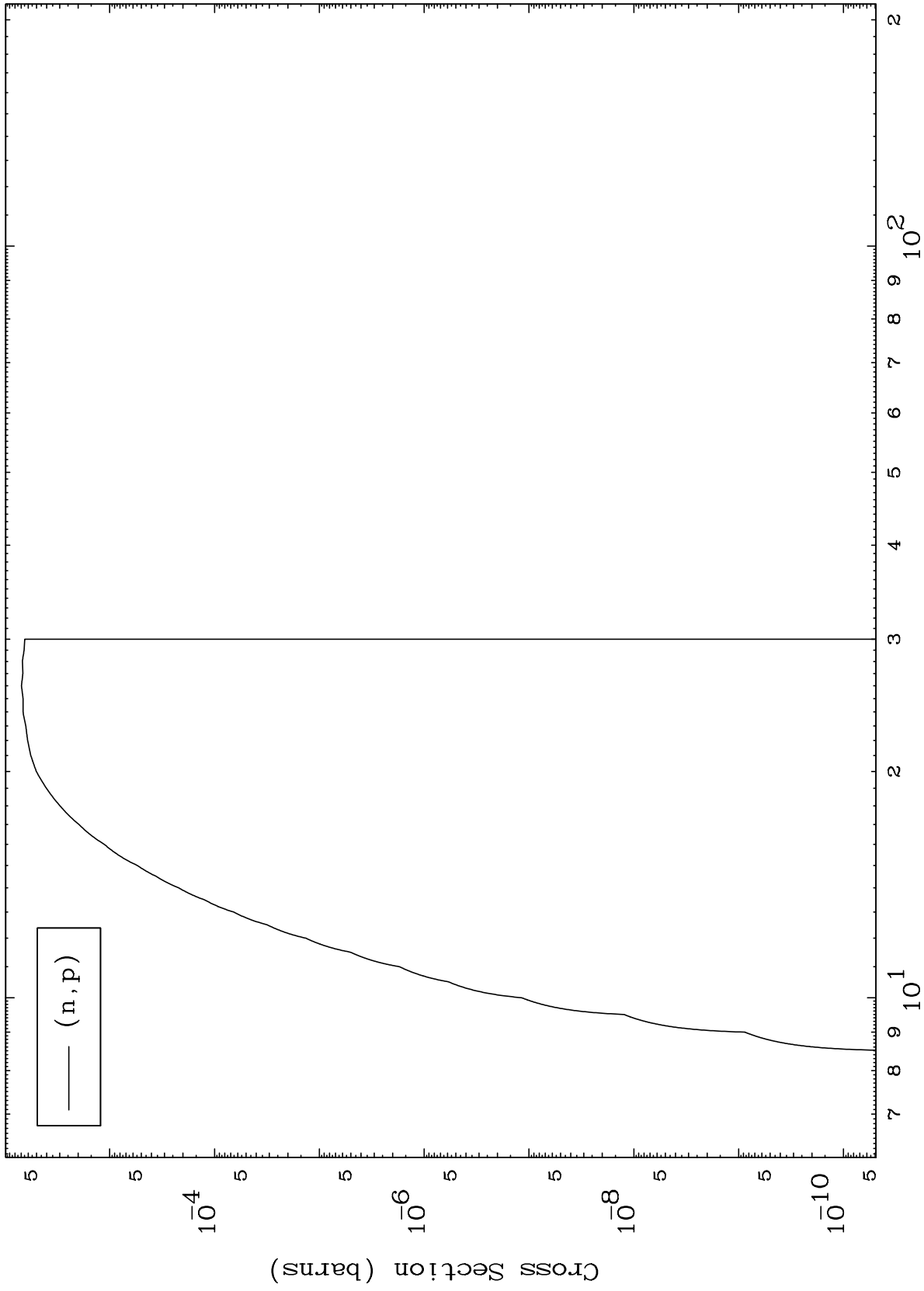
Incident Energy (MeV)

54-Xe-139

MAT 5470

(n,p) Levels
293 Kelvin Cross Sections

54-Xe-139



10

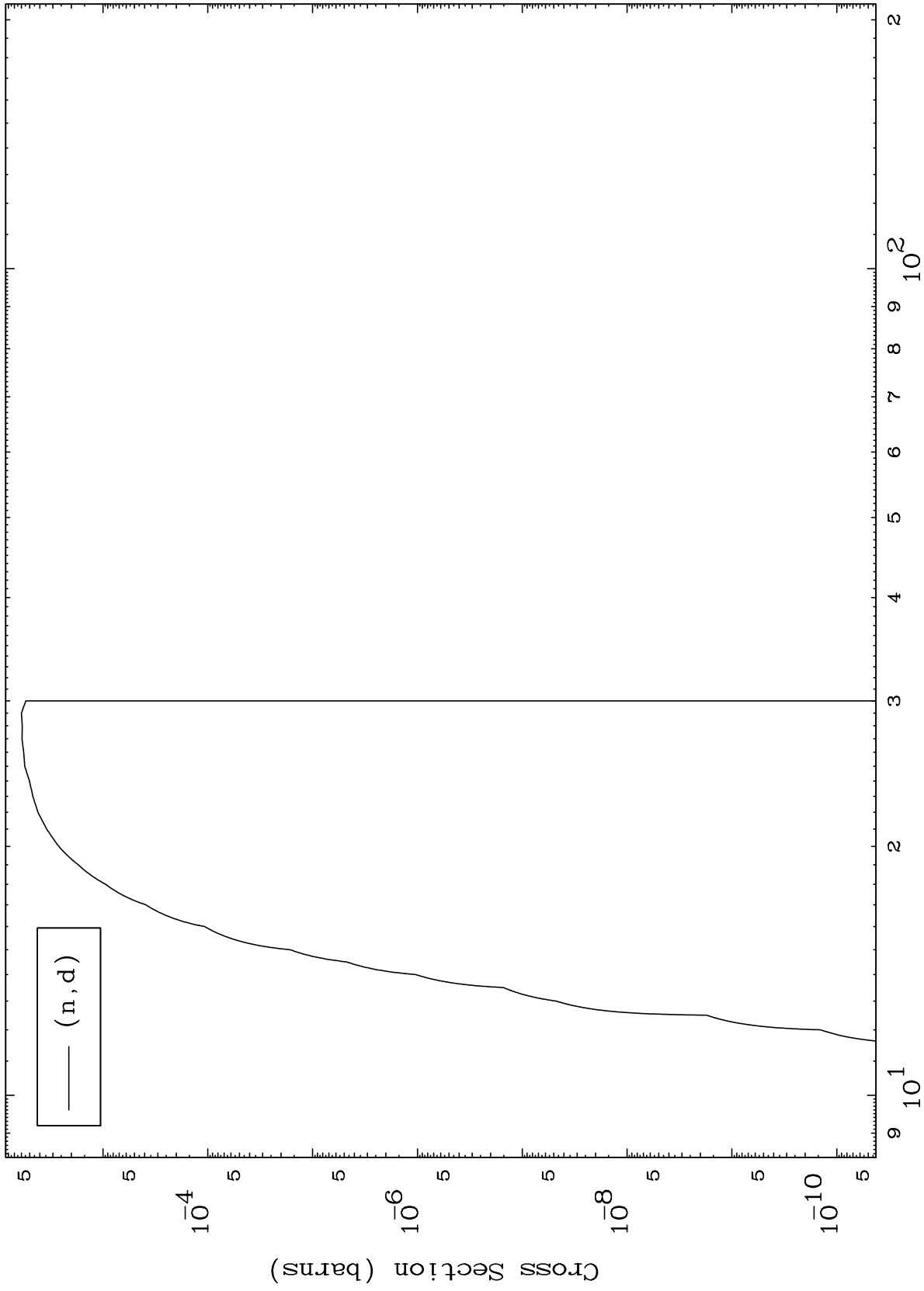
Incident Energy (MeV)

54-Xe-139

MAT 5470

(n,d) Levels
293 Kelvin Cross Sections

54-Xe-139



11

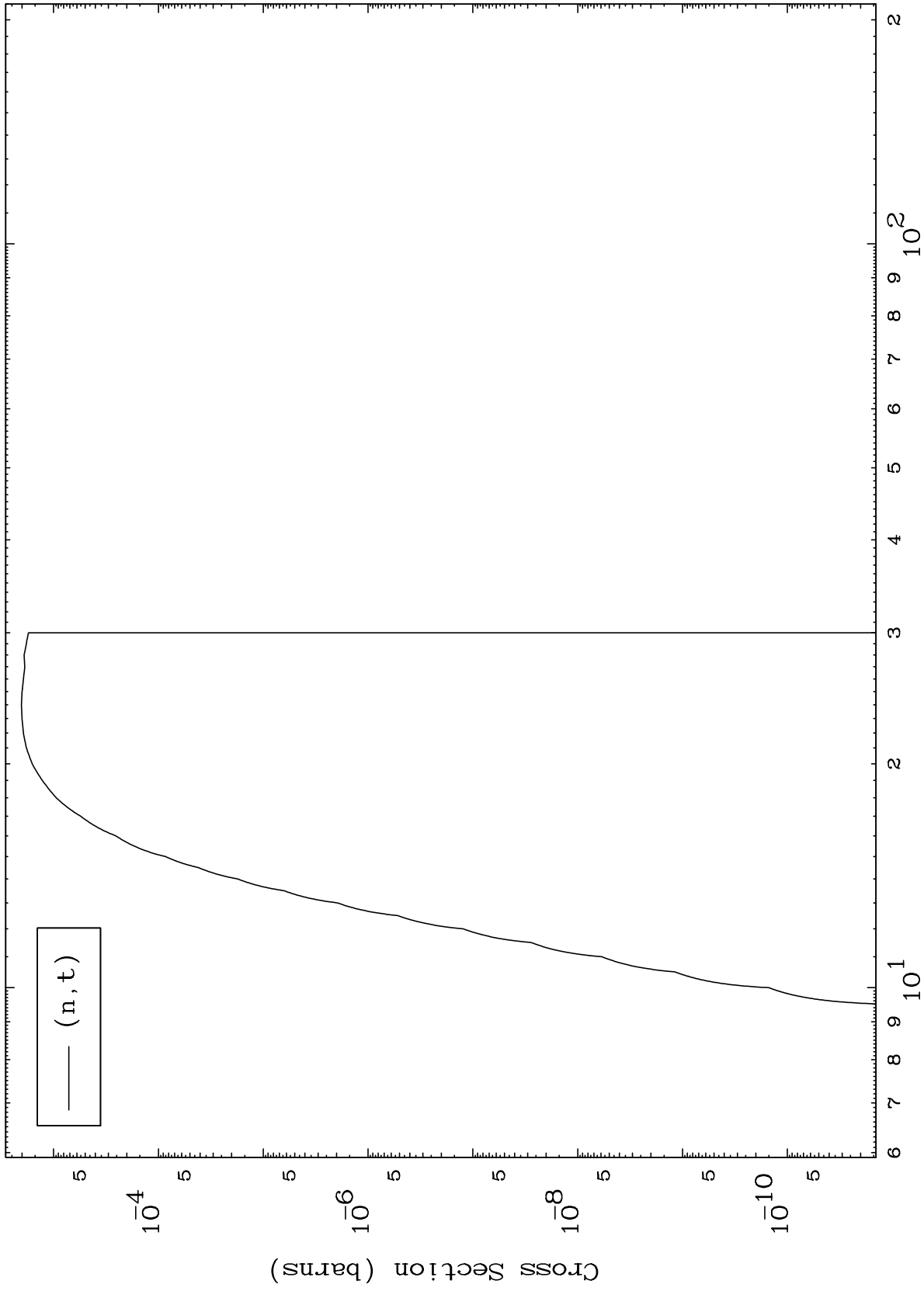
Incident Energy (MeV)

54-Xe-139

MAT 5470

(n,t) Levels
293 Kelvin Cross Sections

54-Xe-139



12

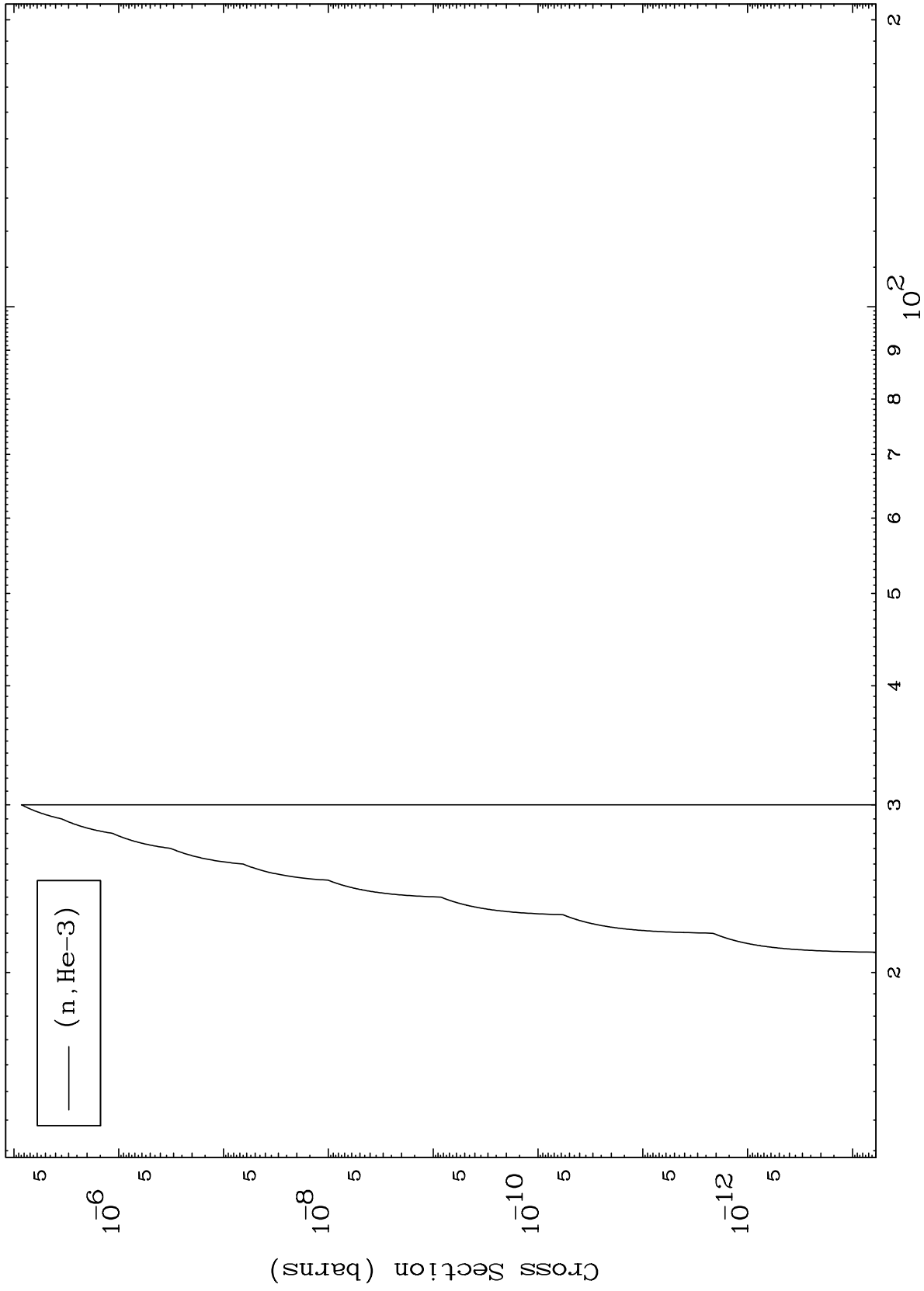
Incident Energy (MeV)

54-Xe-139

MAT 5470

(n,He3) Levels
293 Kelvin Cross Sections

54-Xe-139



13

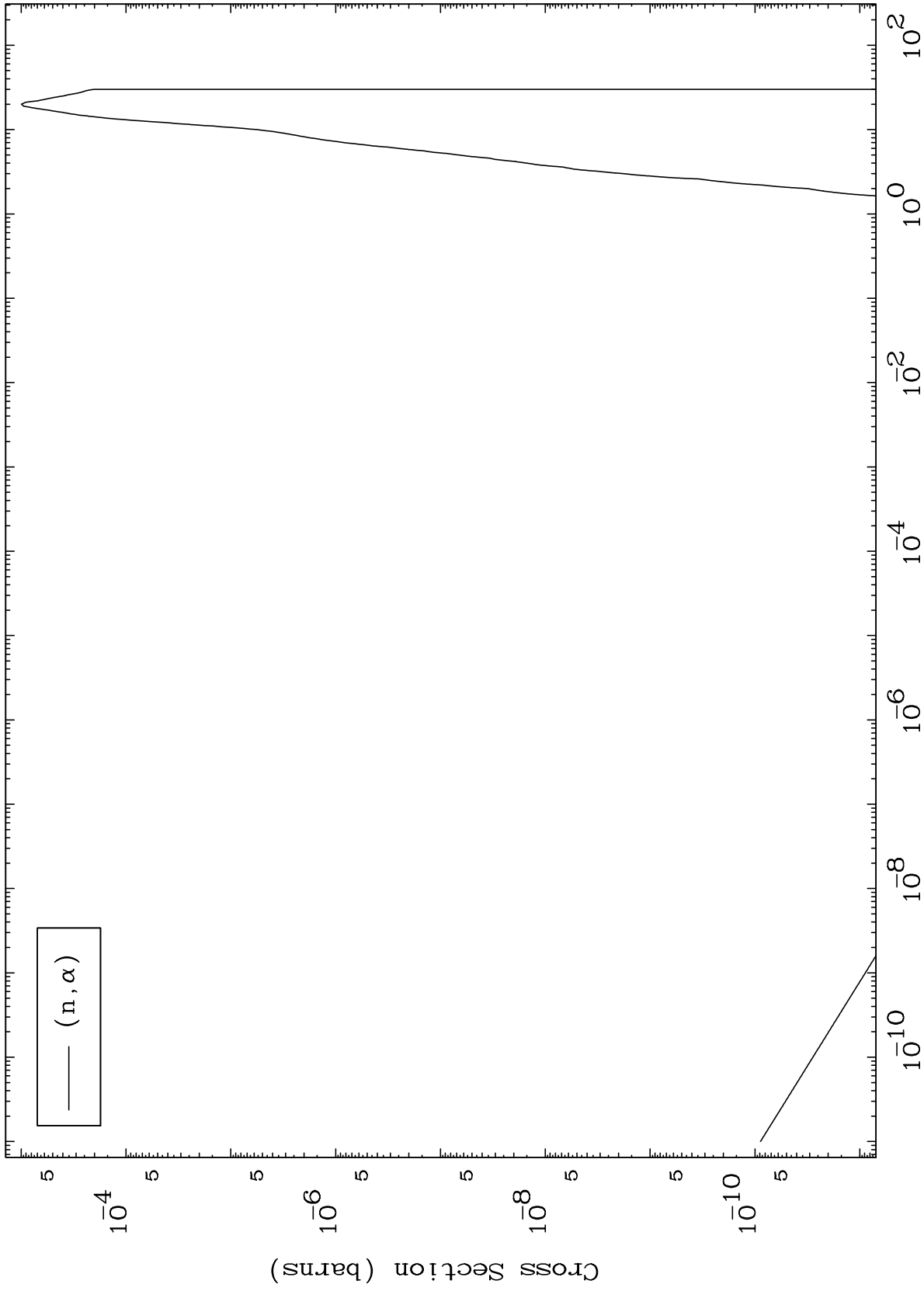
Incident Energy (MeV)

54-Xe-139

MAT 5470

(n,α) Levels
293 Kelvin Cross Sections

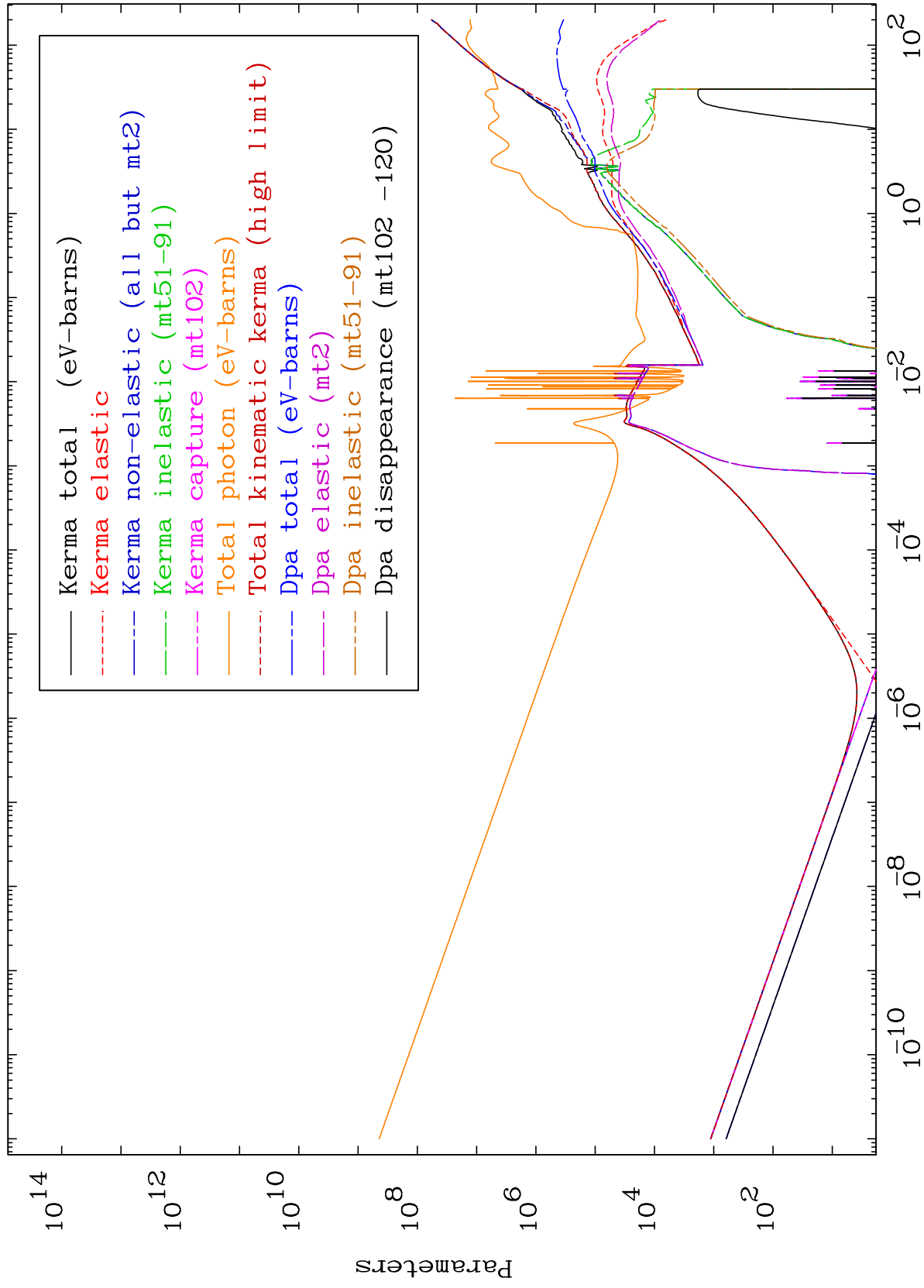
54-Xe-139



14

Incident Energy (MeV)

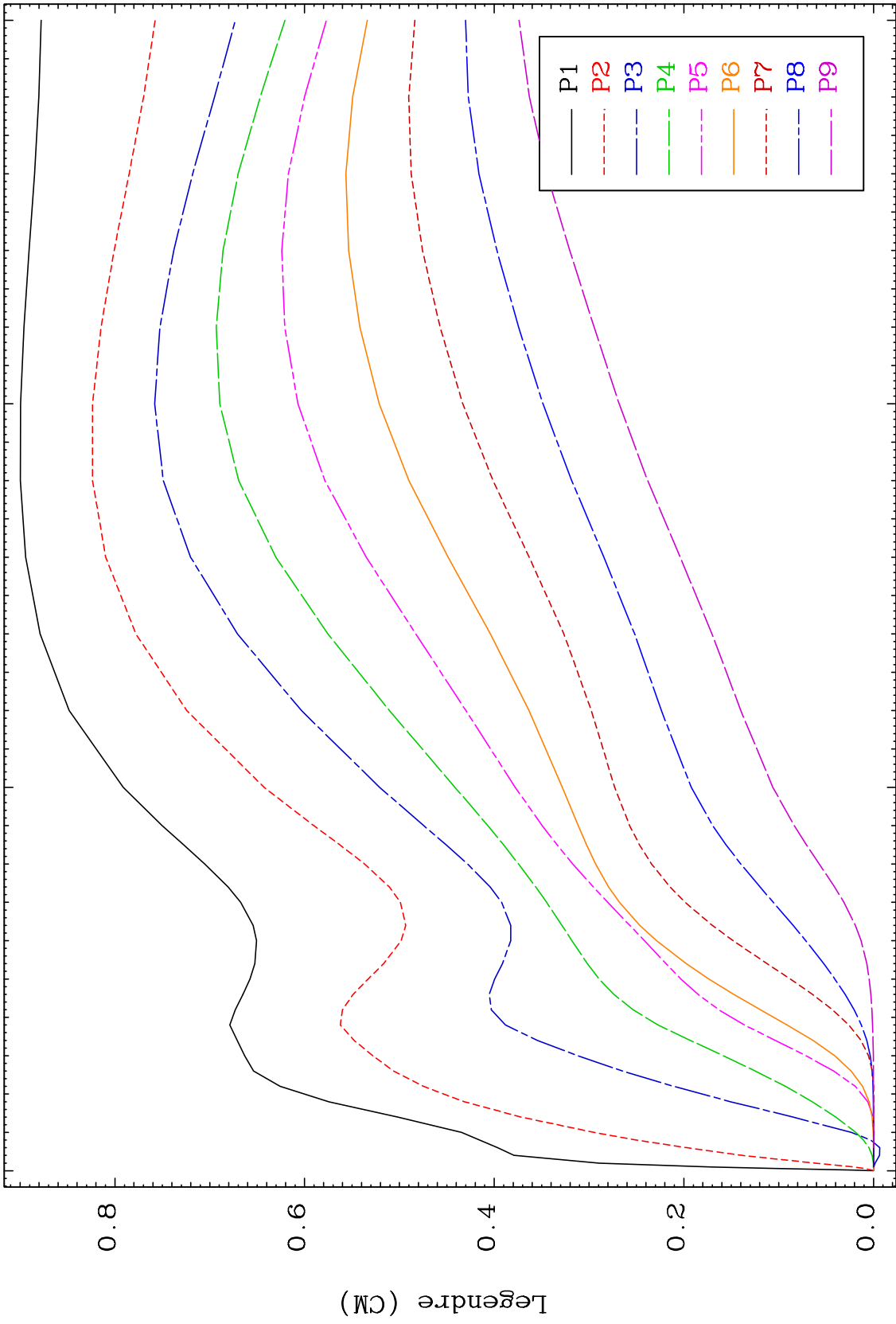
54-Xe-139



MAT 5470

54-Xe-139

Elastic Legendre Coefficients



16

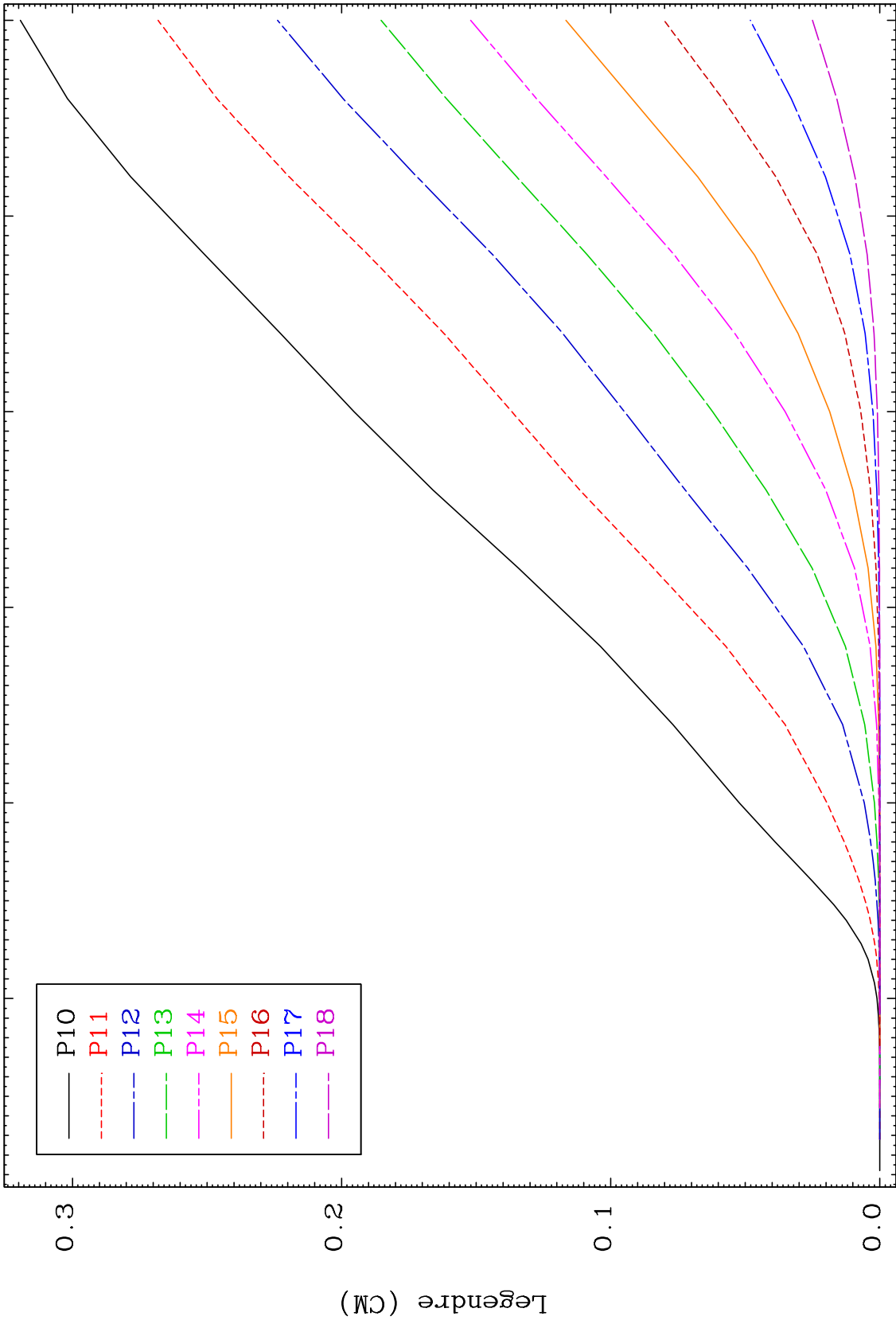
Incident Energy (MeV)

54-Xe-139

MAT 5470

Elastic Legendre Coefficients

54-Xe-139



17

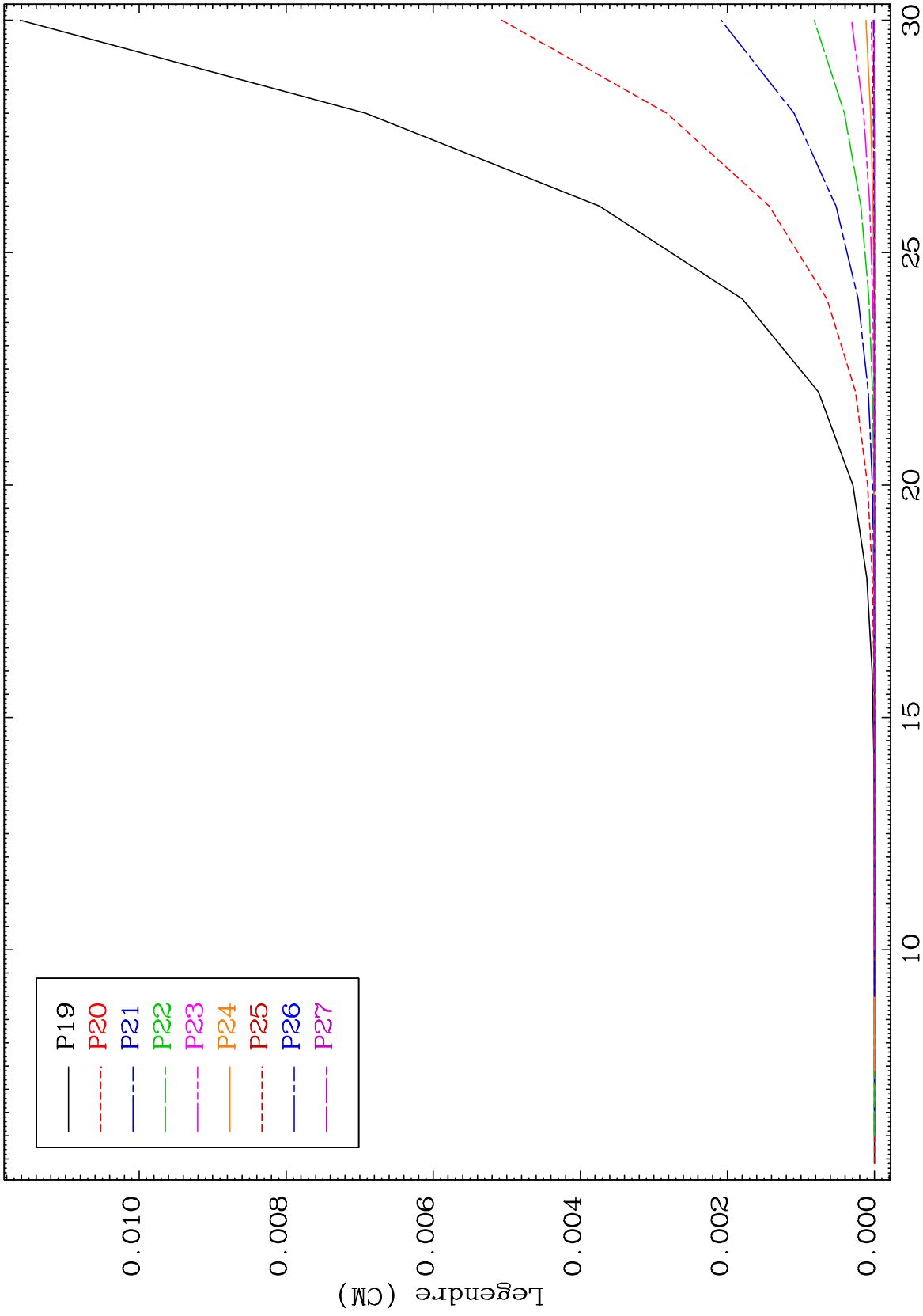
Incident Energy (MeV)

54-Xe-139

MAT 5470

Elastic Legendre Coefficients

54-Xe-139



18

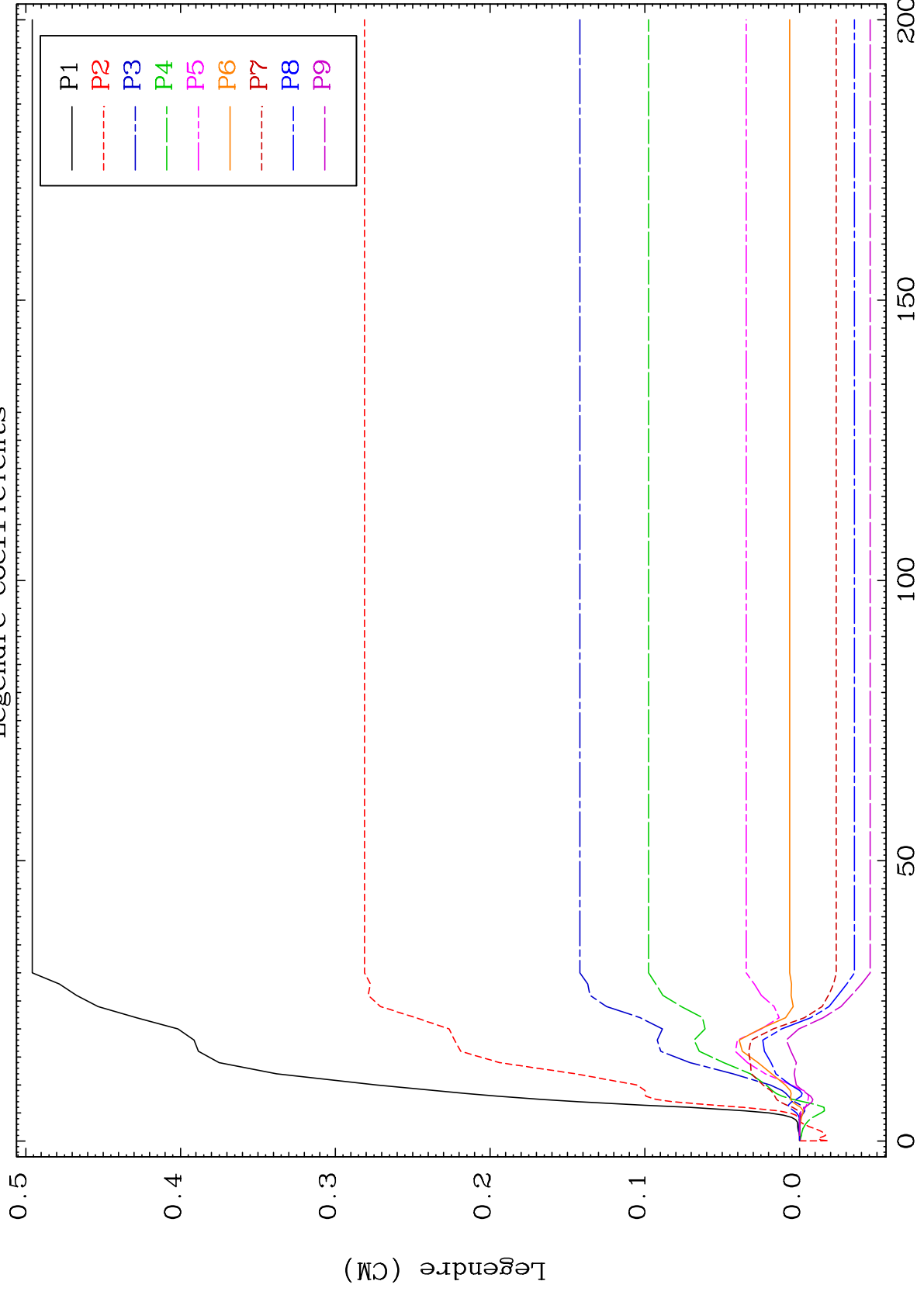
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



54-Xe-139

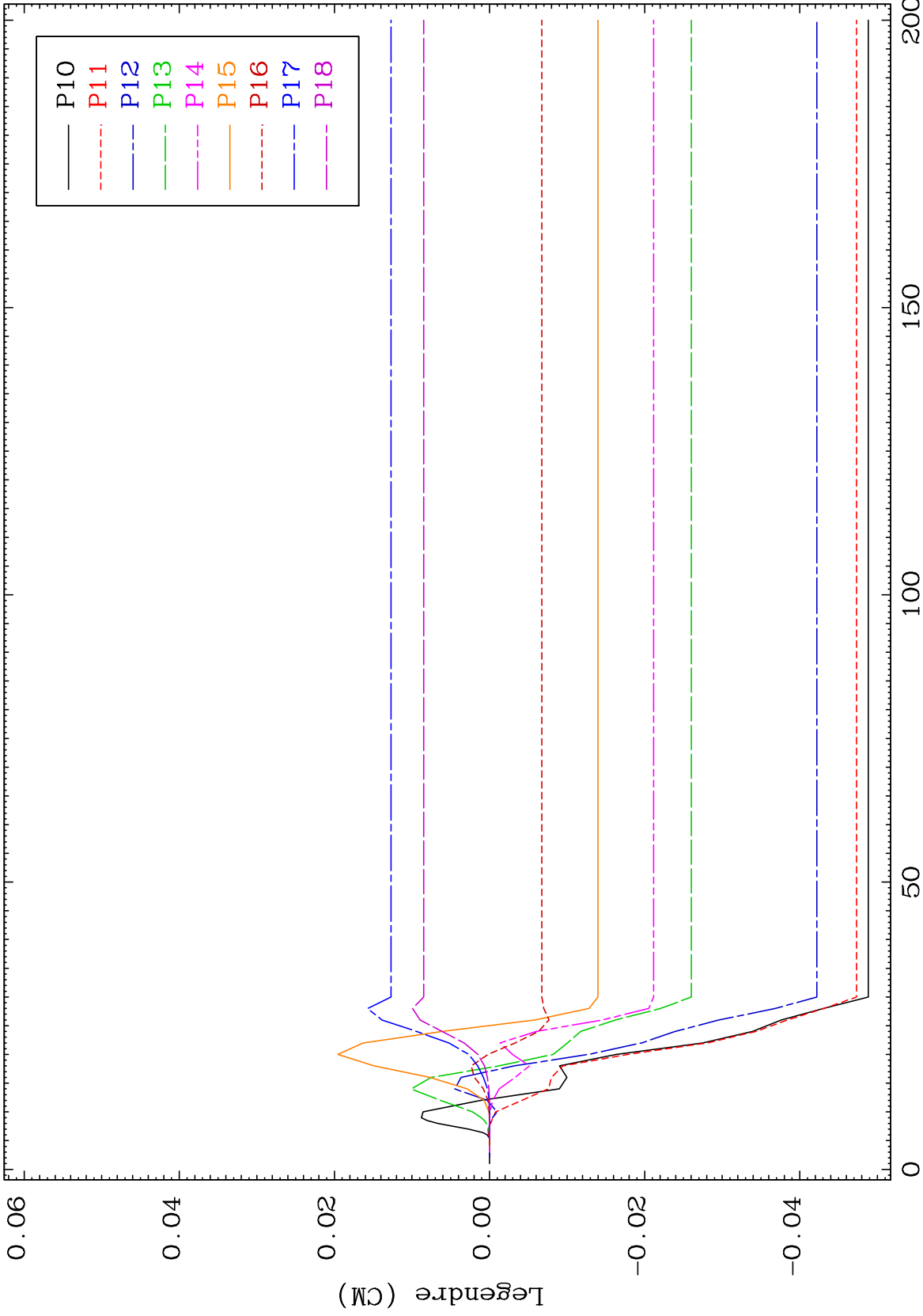
Incident Energy (MeV)

Legendre (CM)

MAT 5470

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

54-Xe-139



21

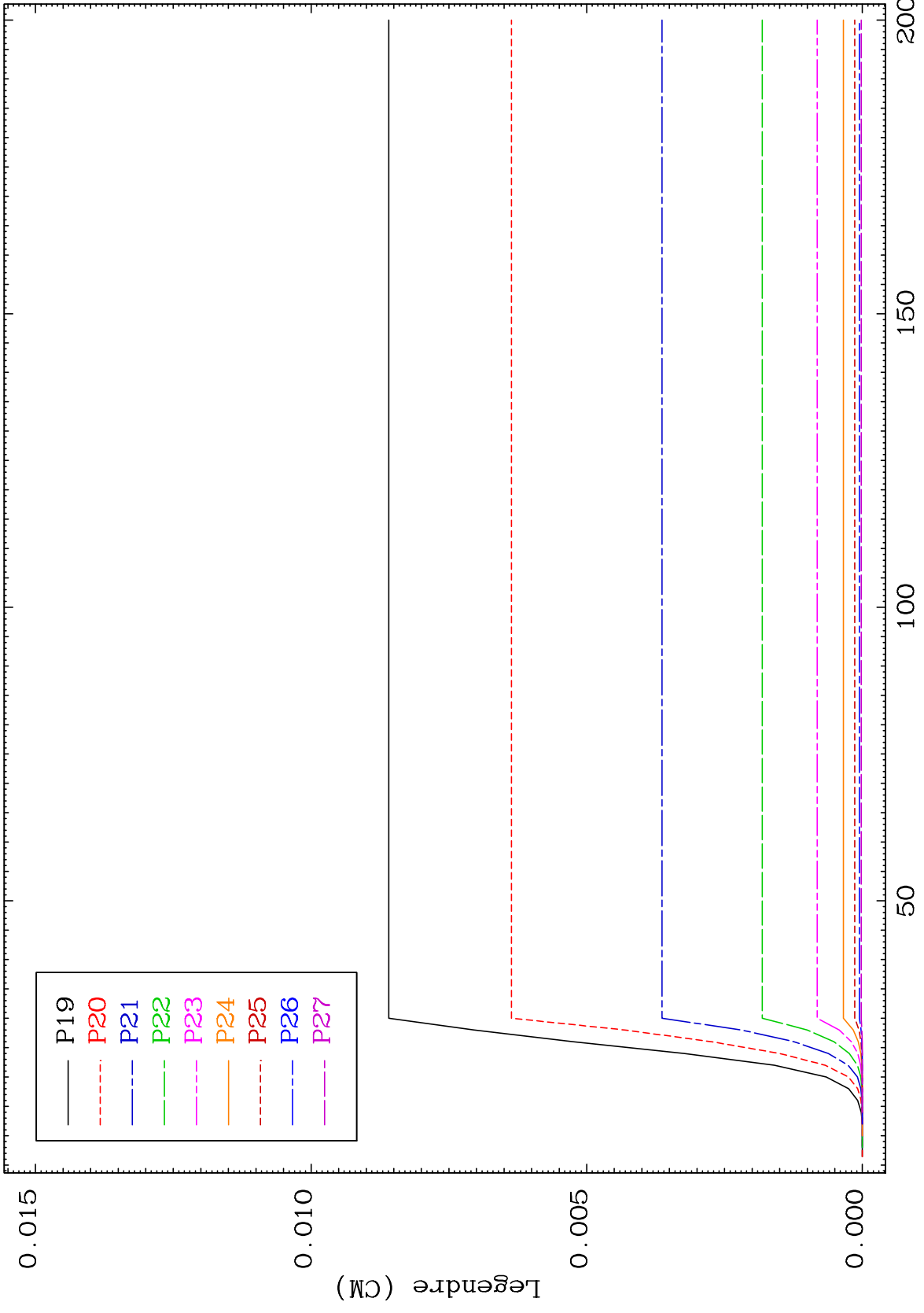
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



22

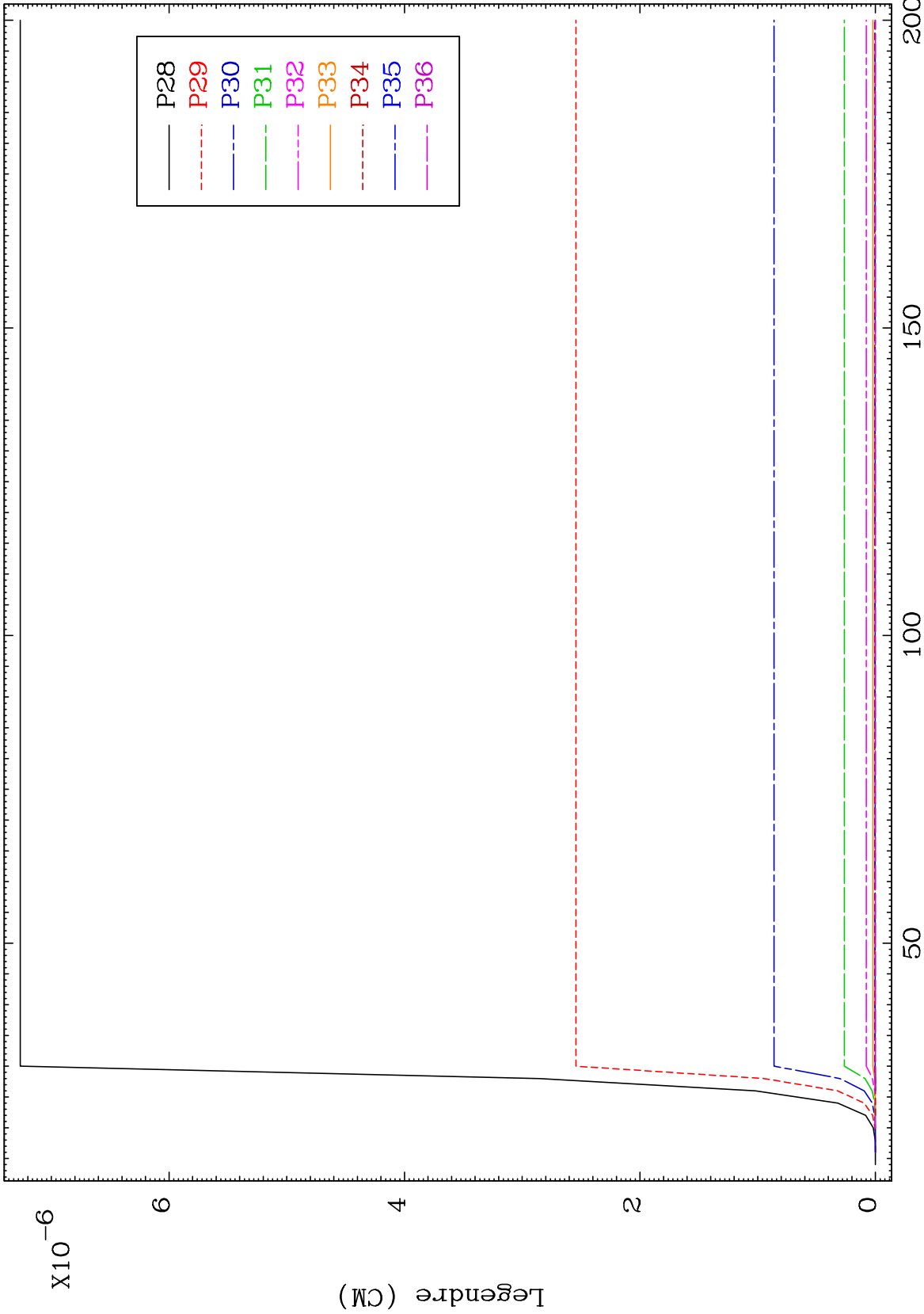
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



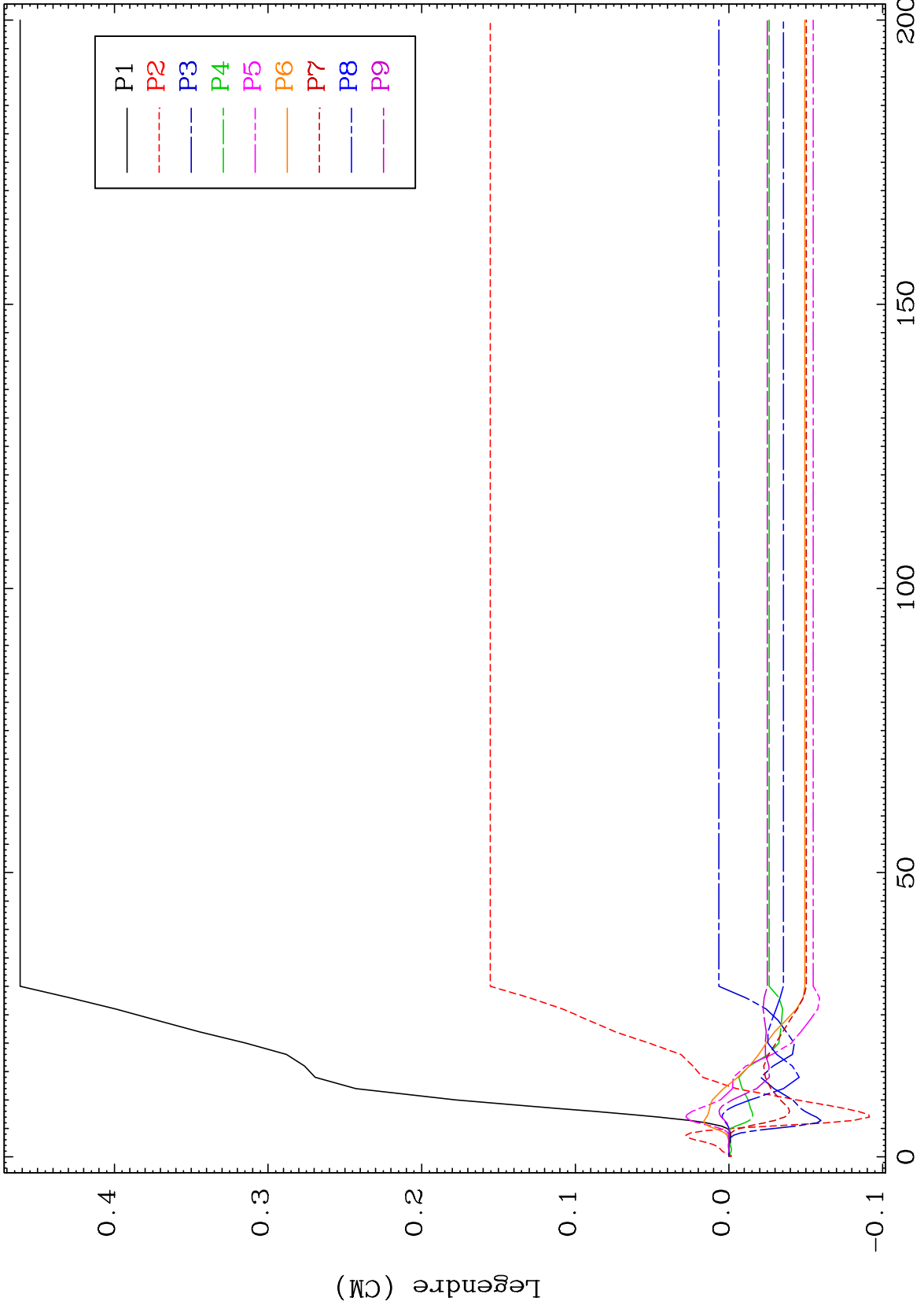
23

54-Xe-139

MAT 5470

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

54-Xe-139



24

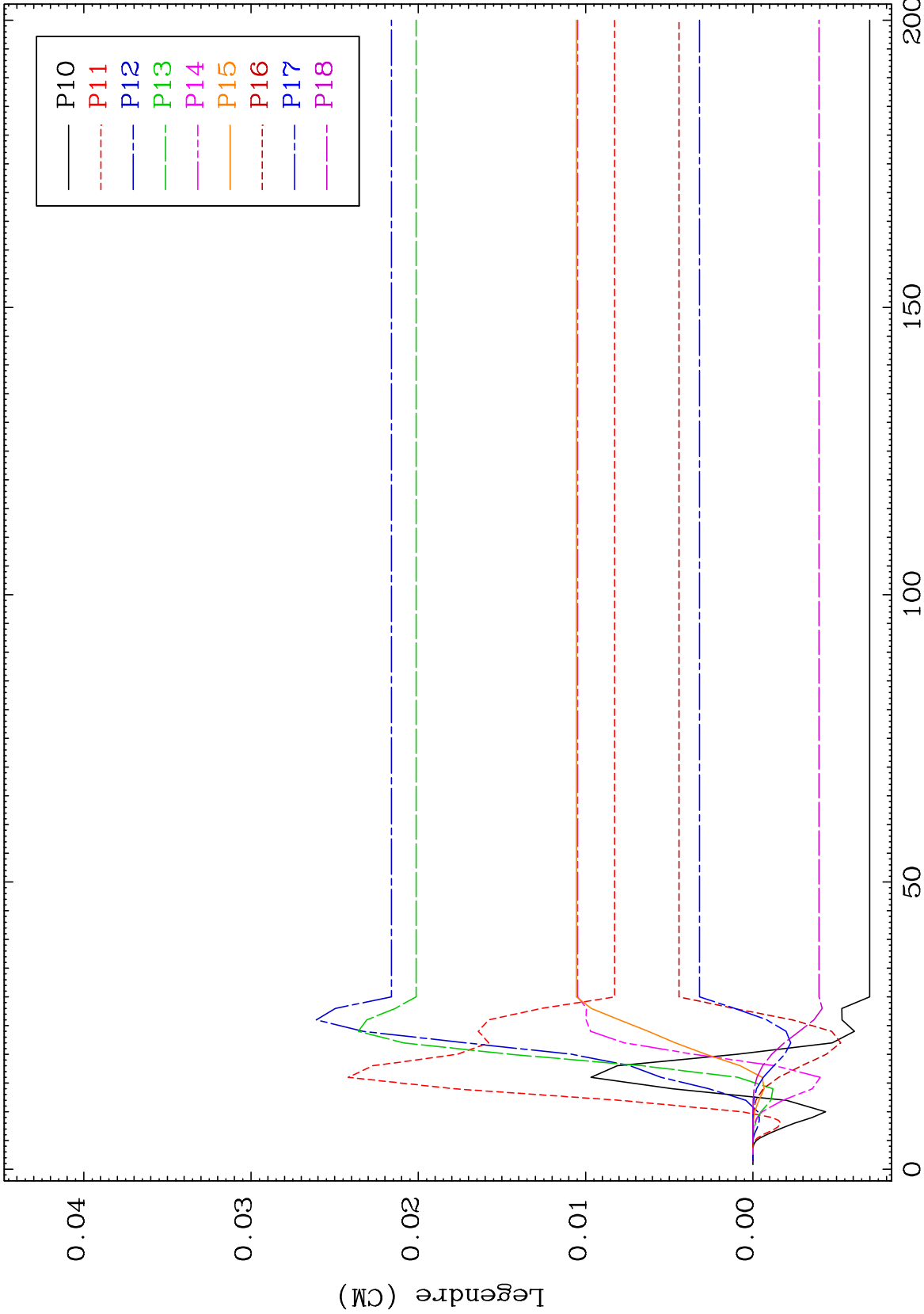
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



25

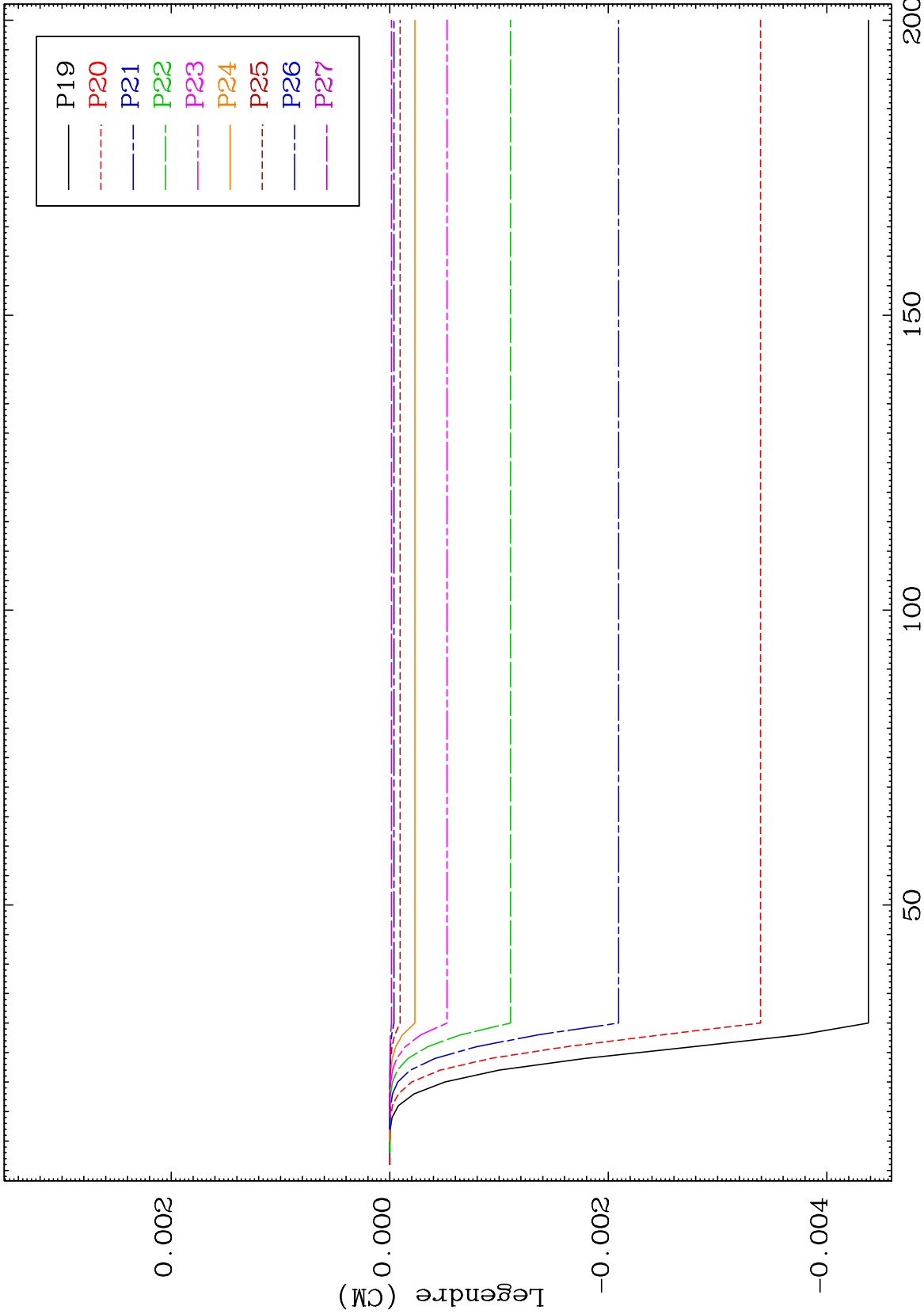
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



26

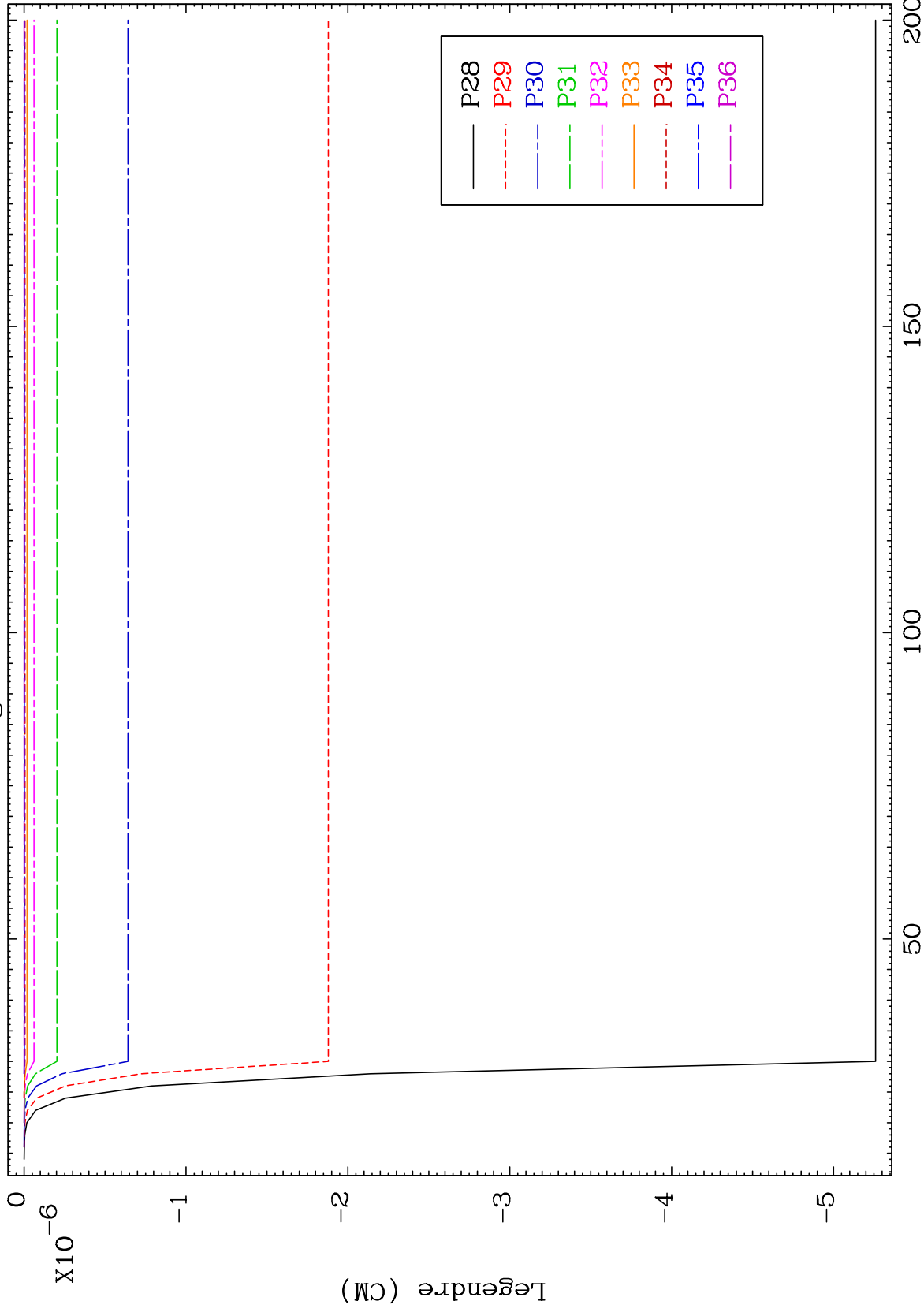
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

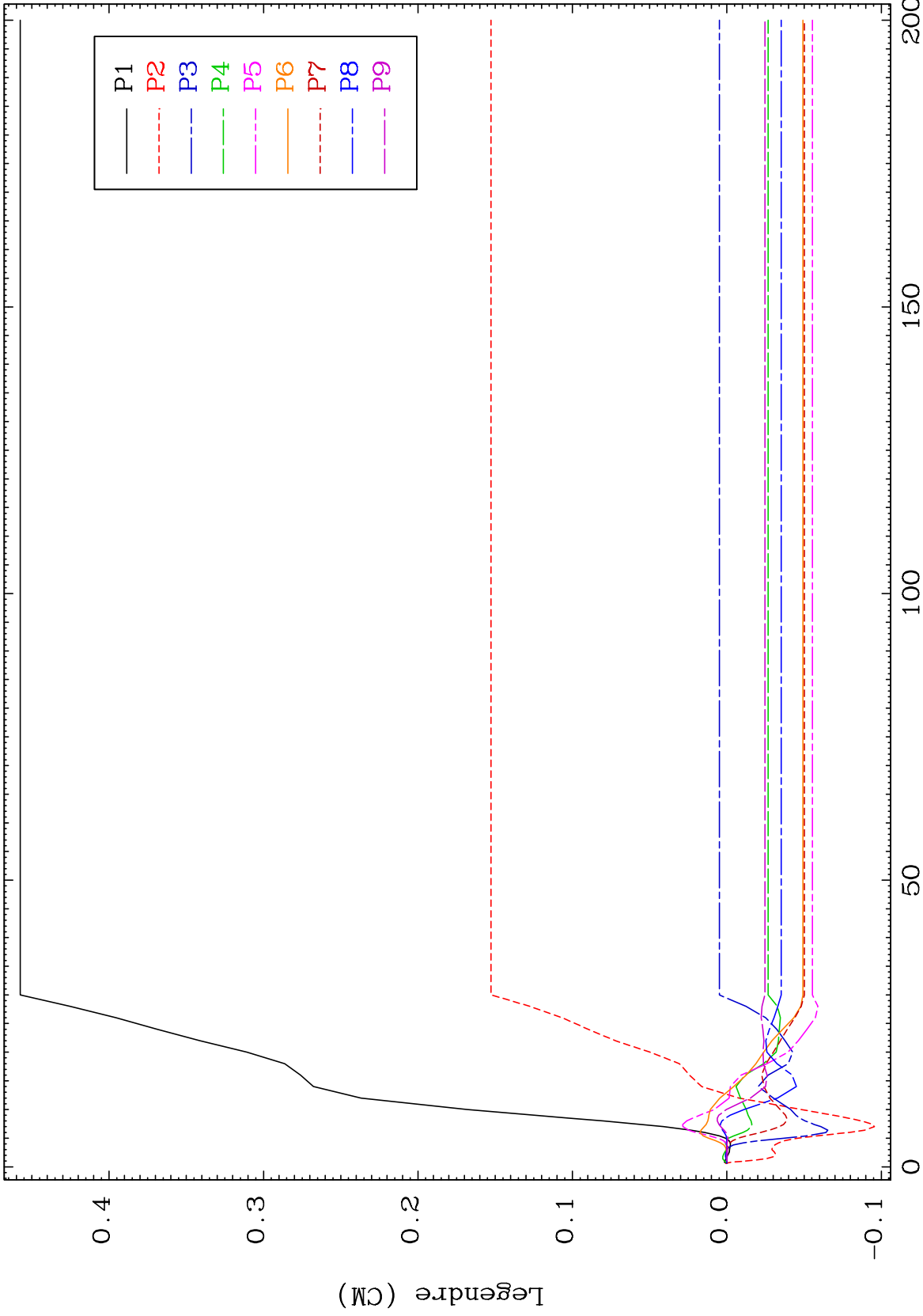
54-Xe-139



MAT 5470

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

54-Xe-139



28

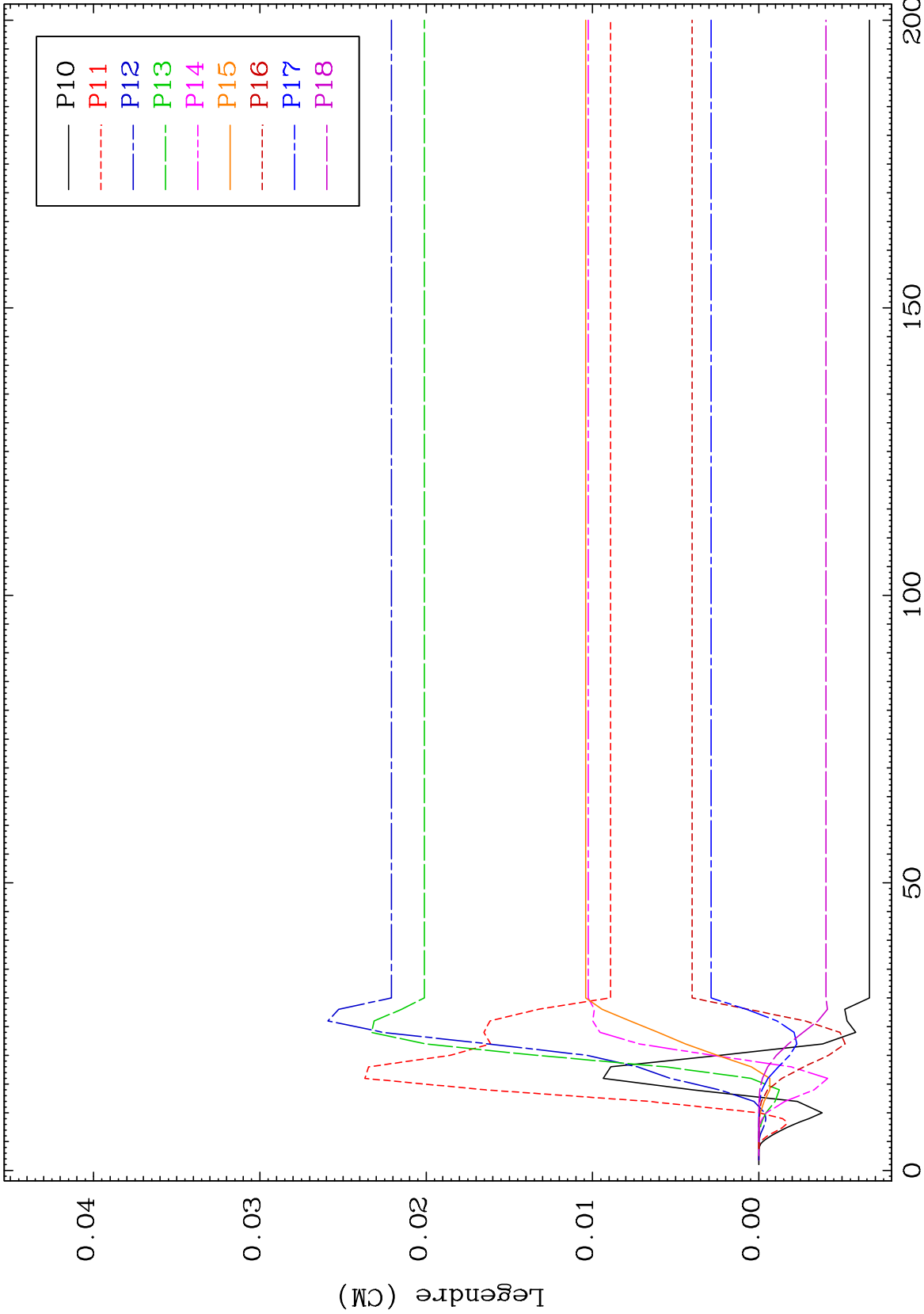
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



29

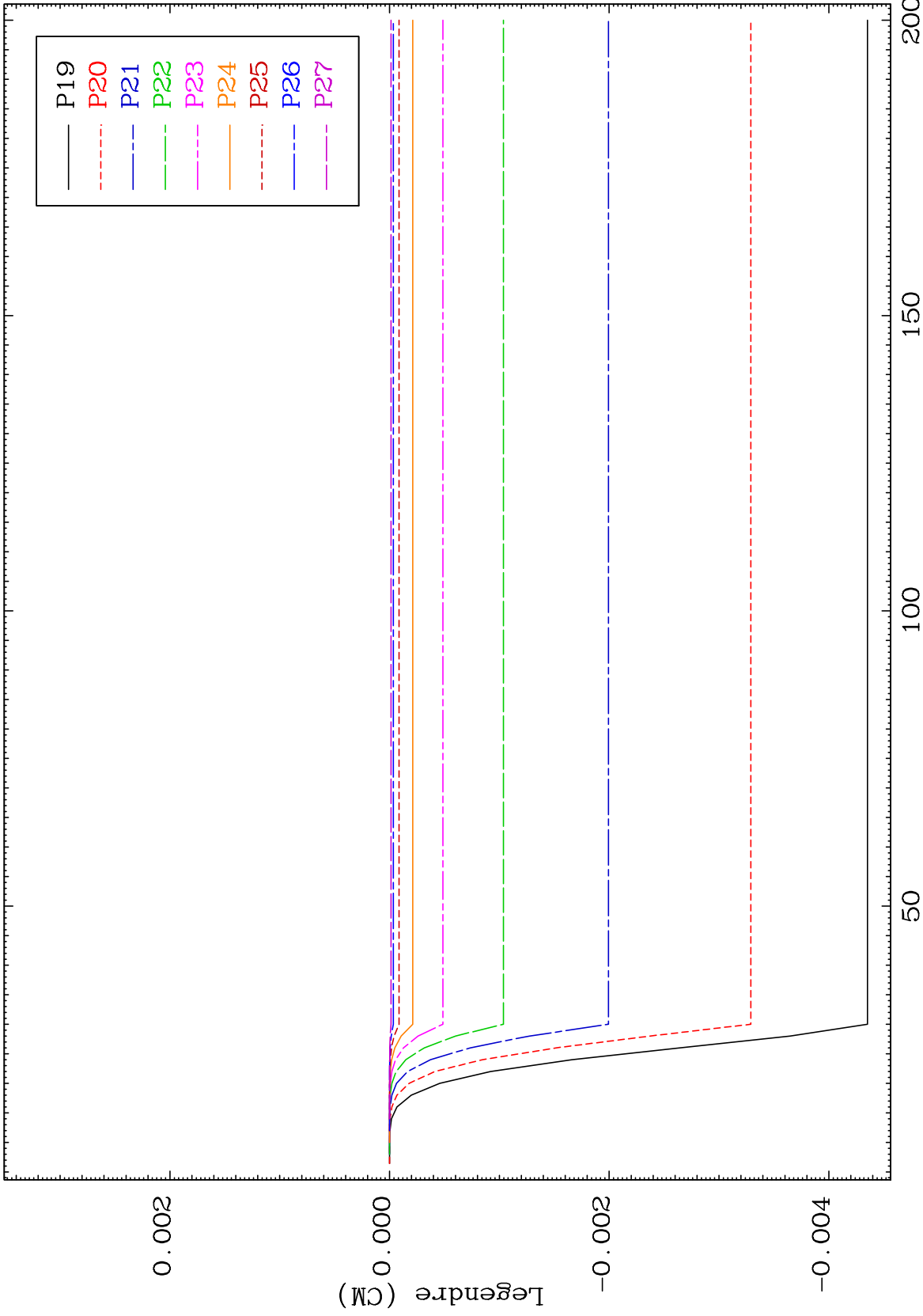
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



30

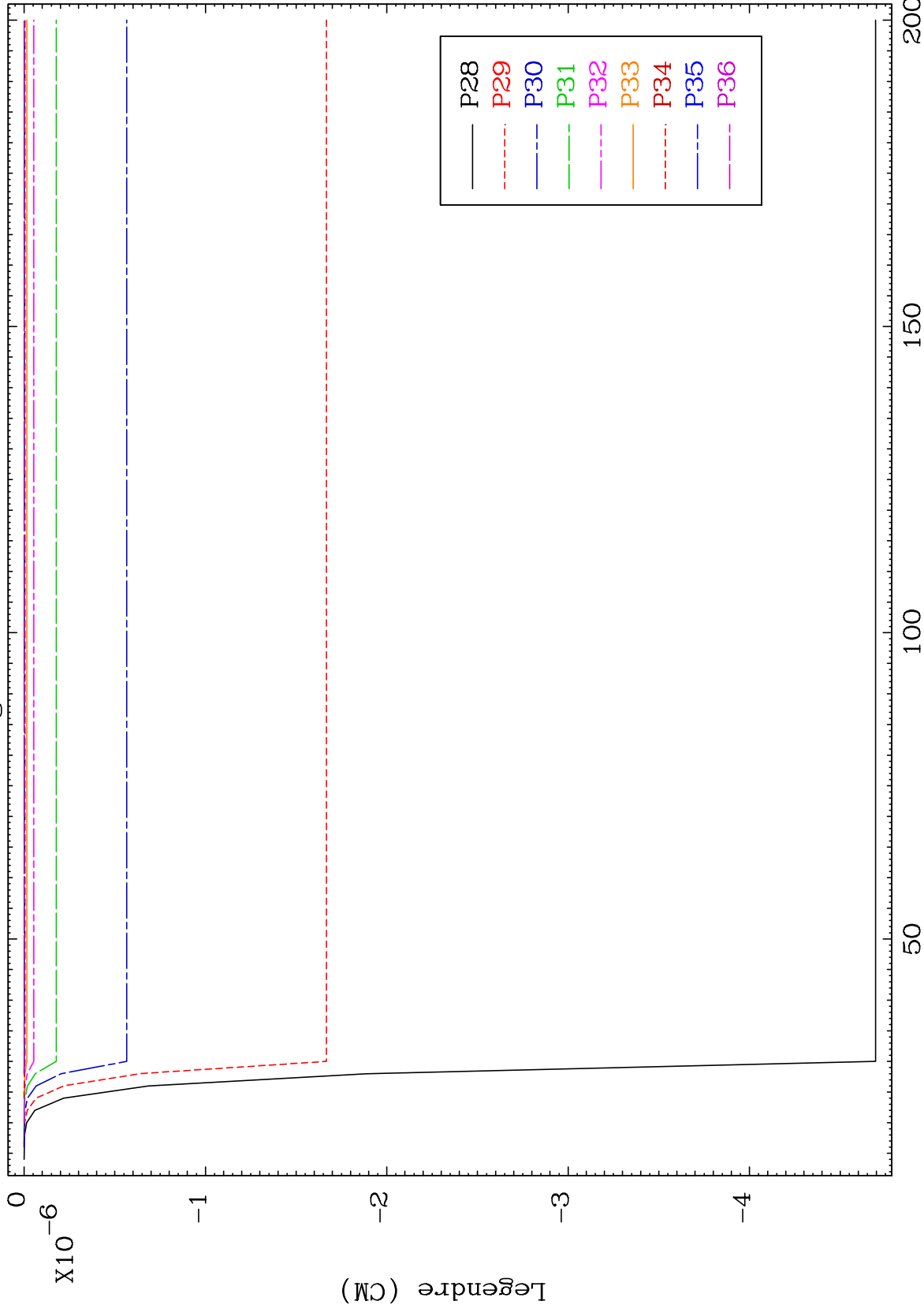
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



54-Xe-139

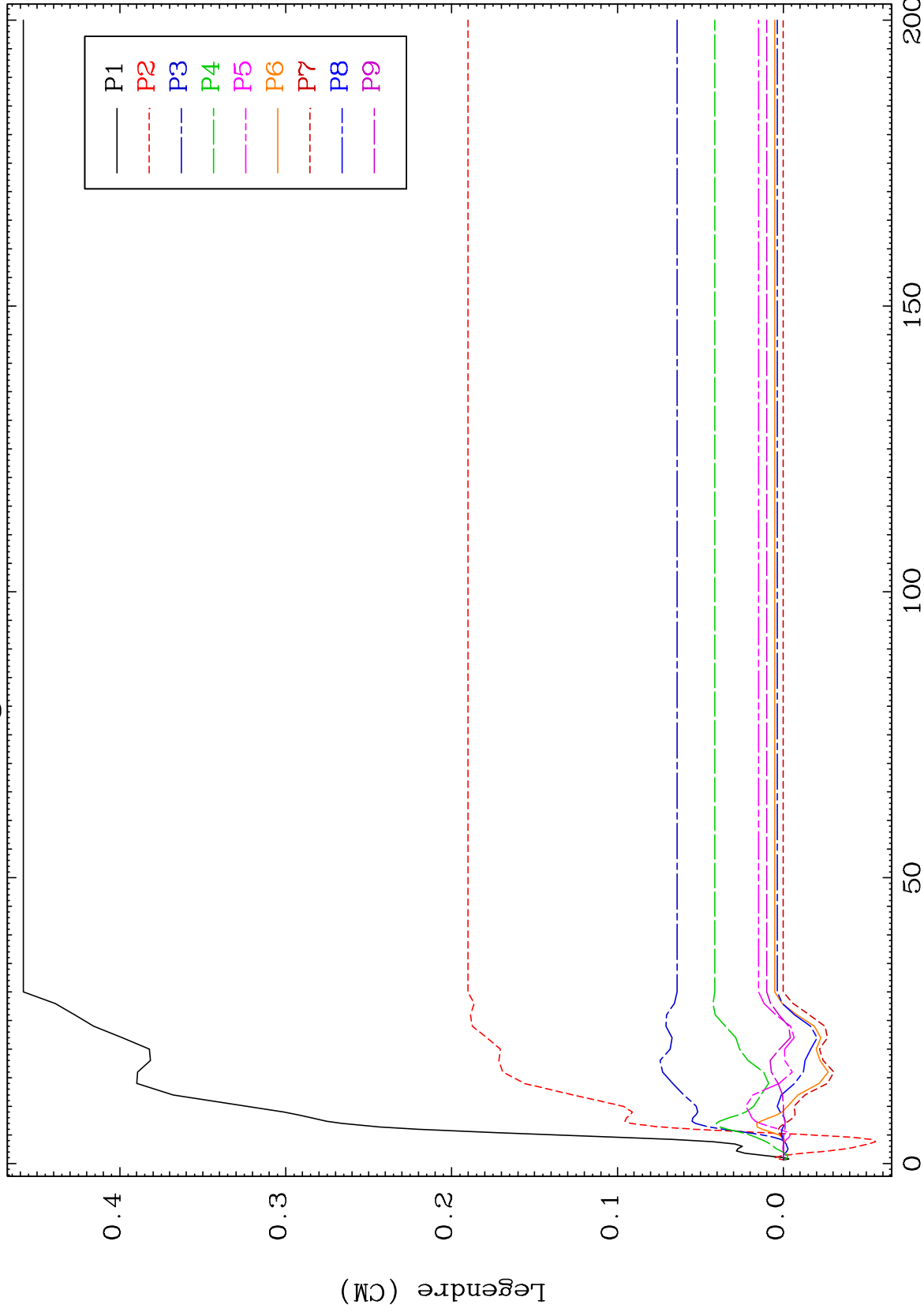
Incident Energy (MeV)

31

MAT 5470

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

54-Xe-139



32

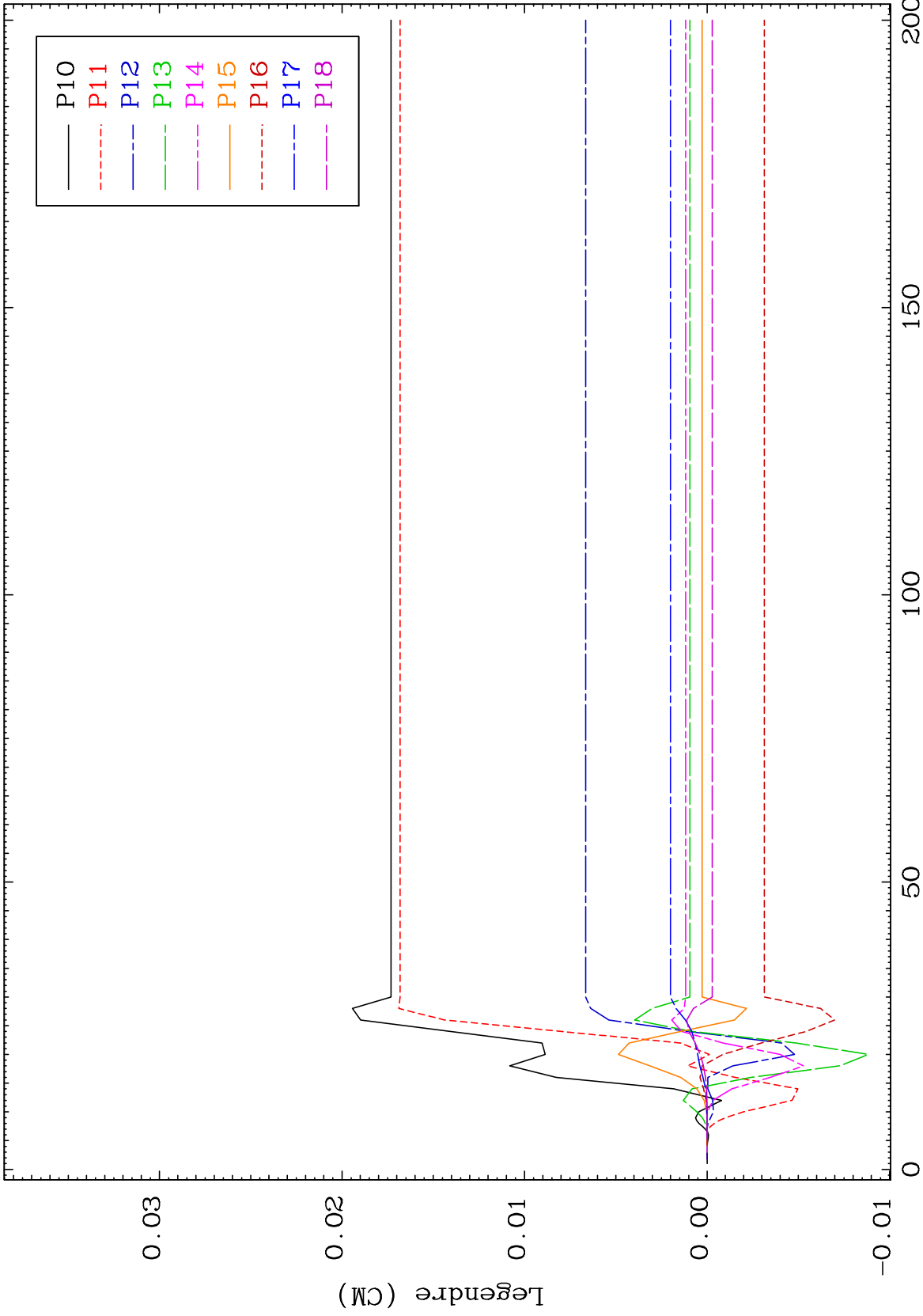
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



33

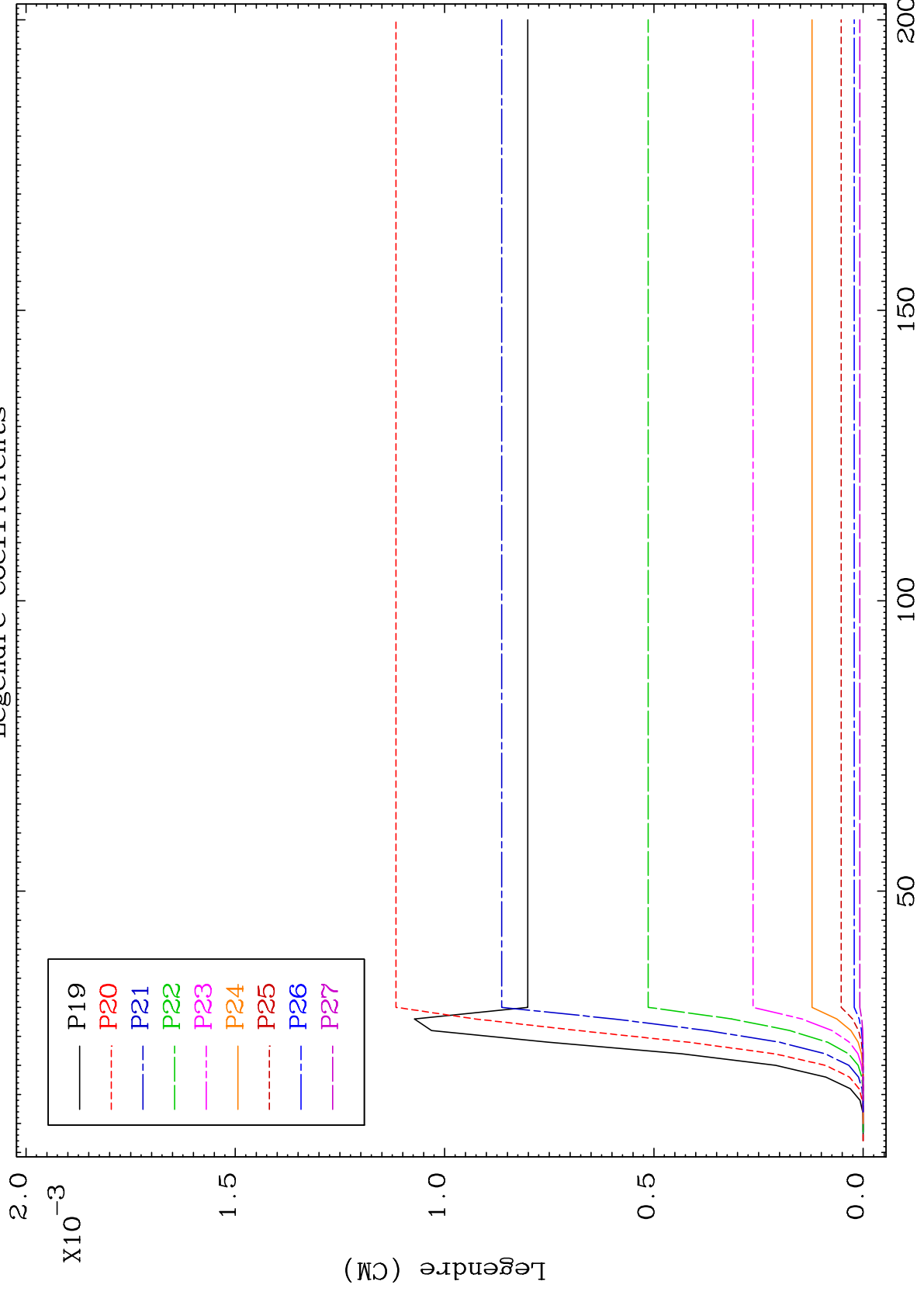
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



34

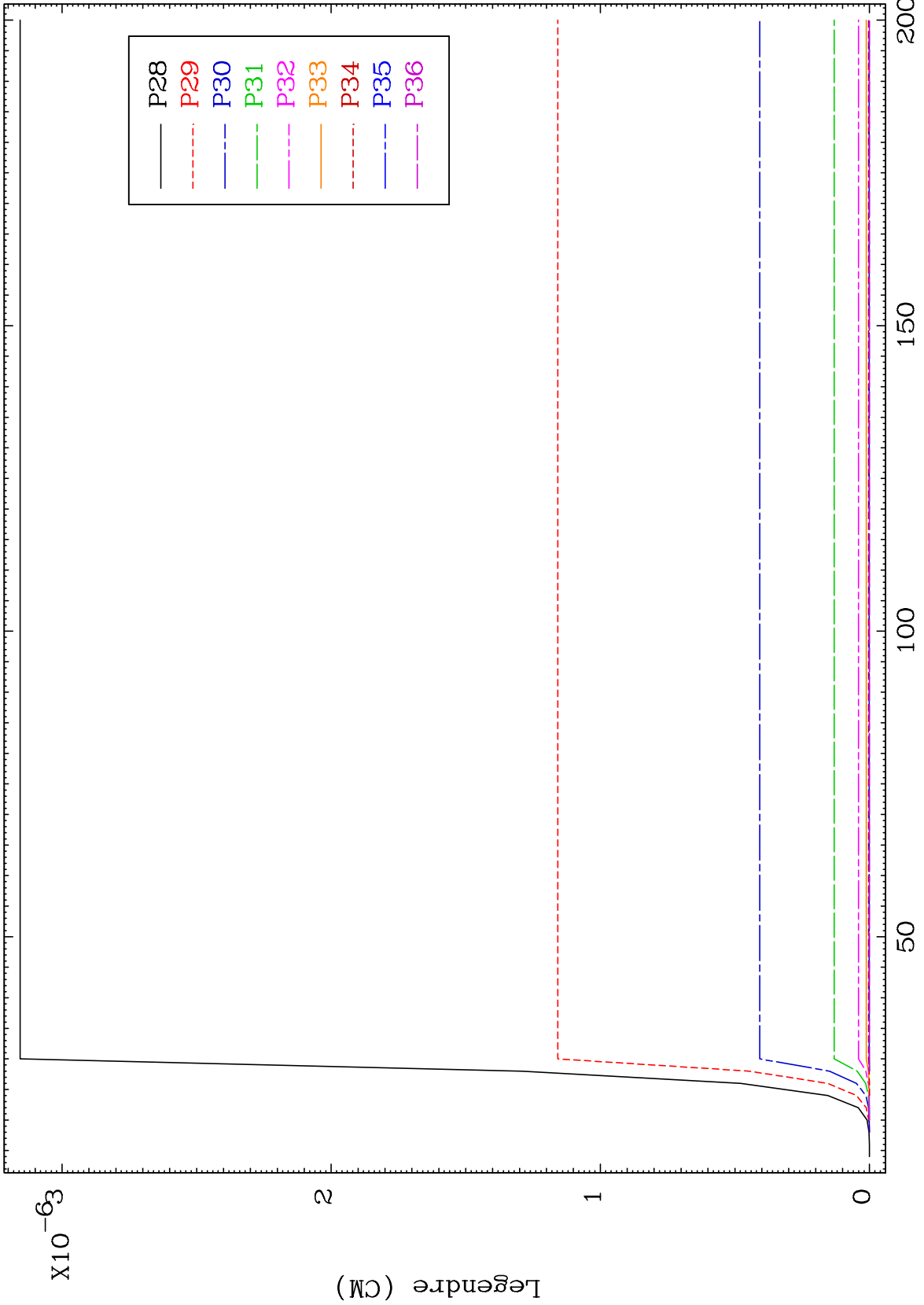
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139

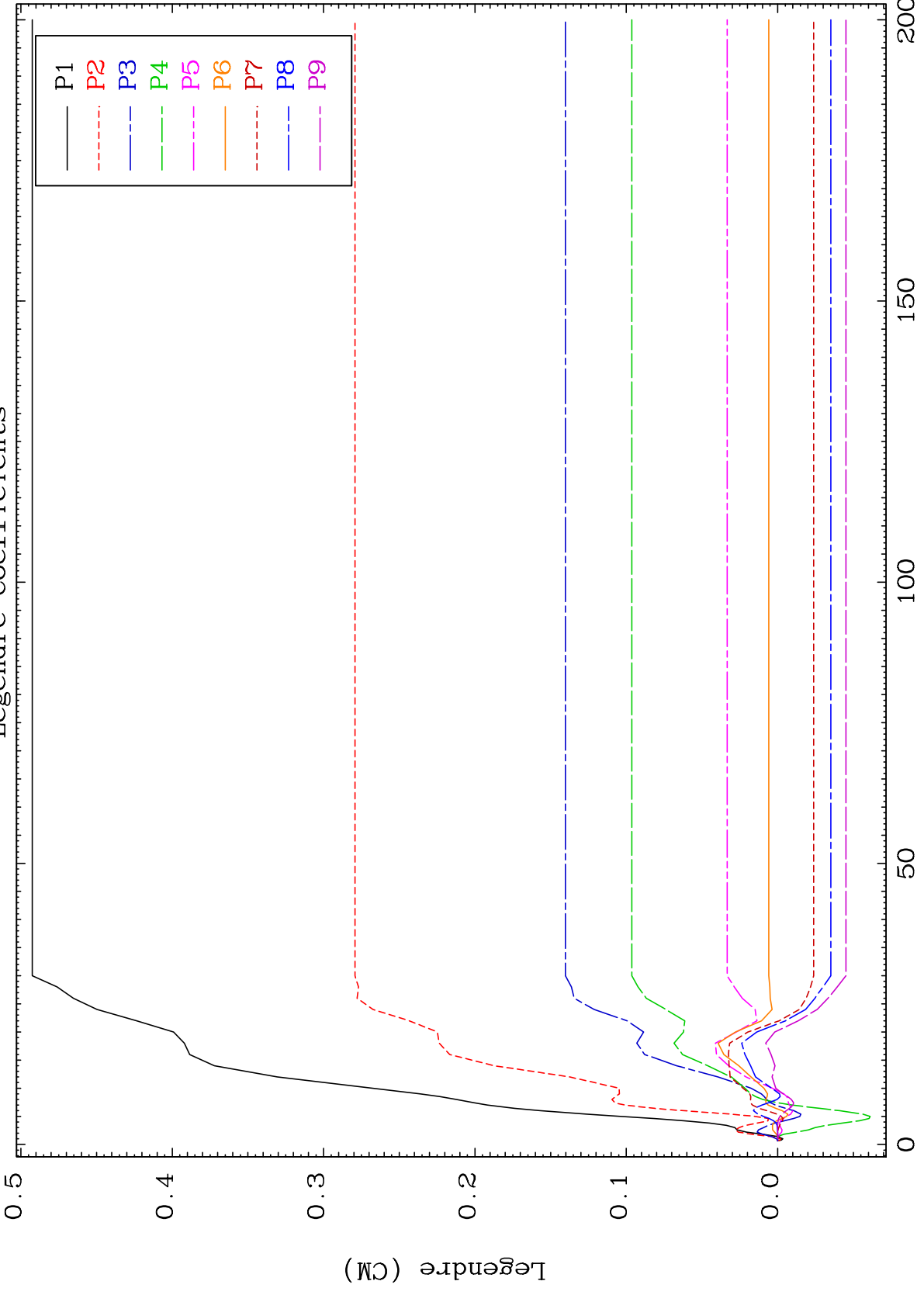


35

Incident Energy (MeV)

54-Xe-139

MAT 5470 MT= 55 (n,n') Level Legendre Coefficients 54-Xe-139

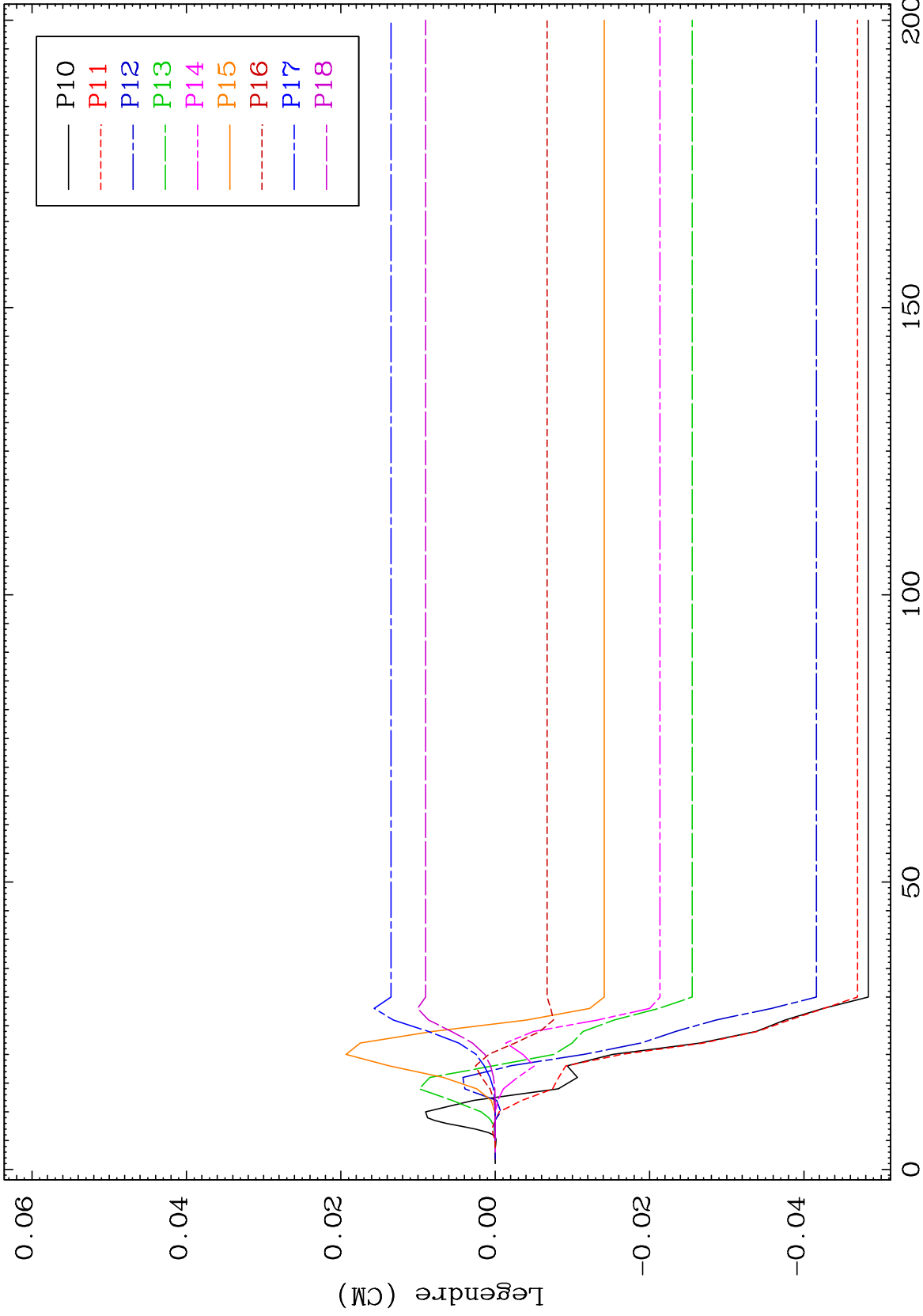


36 54-Xe-139

MAT 5470

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

54-Xe-139



37

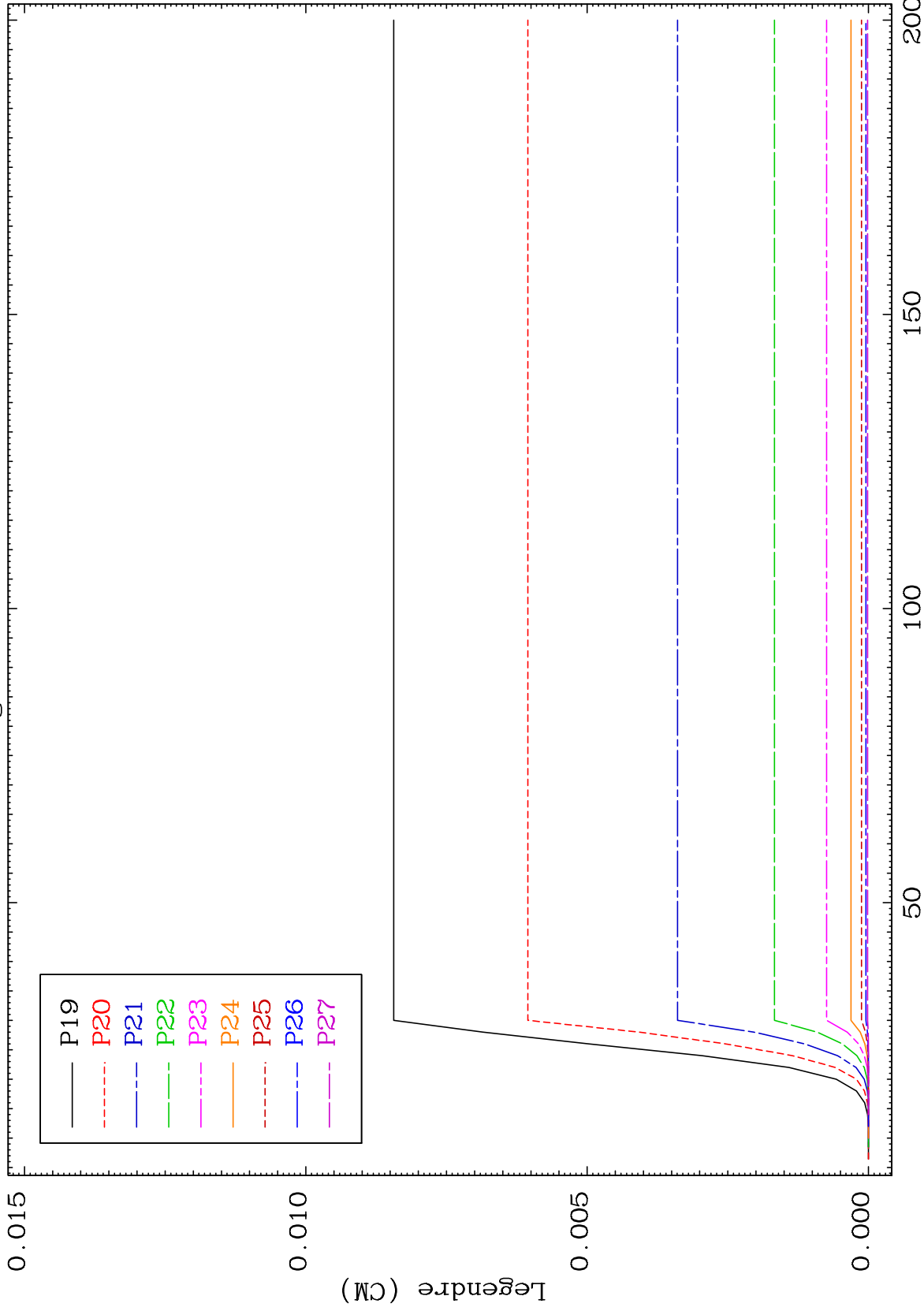
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



38

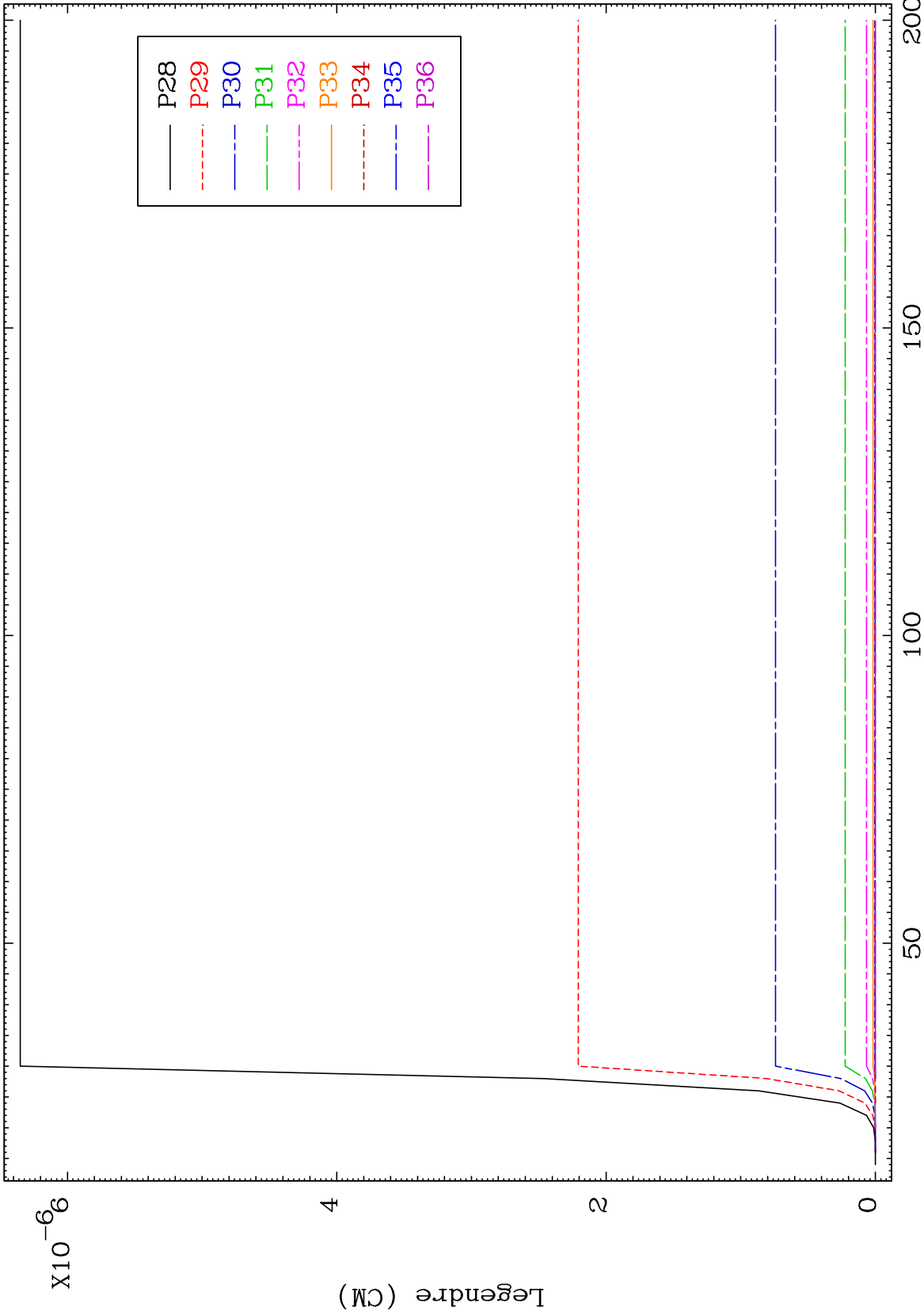
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

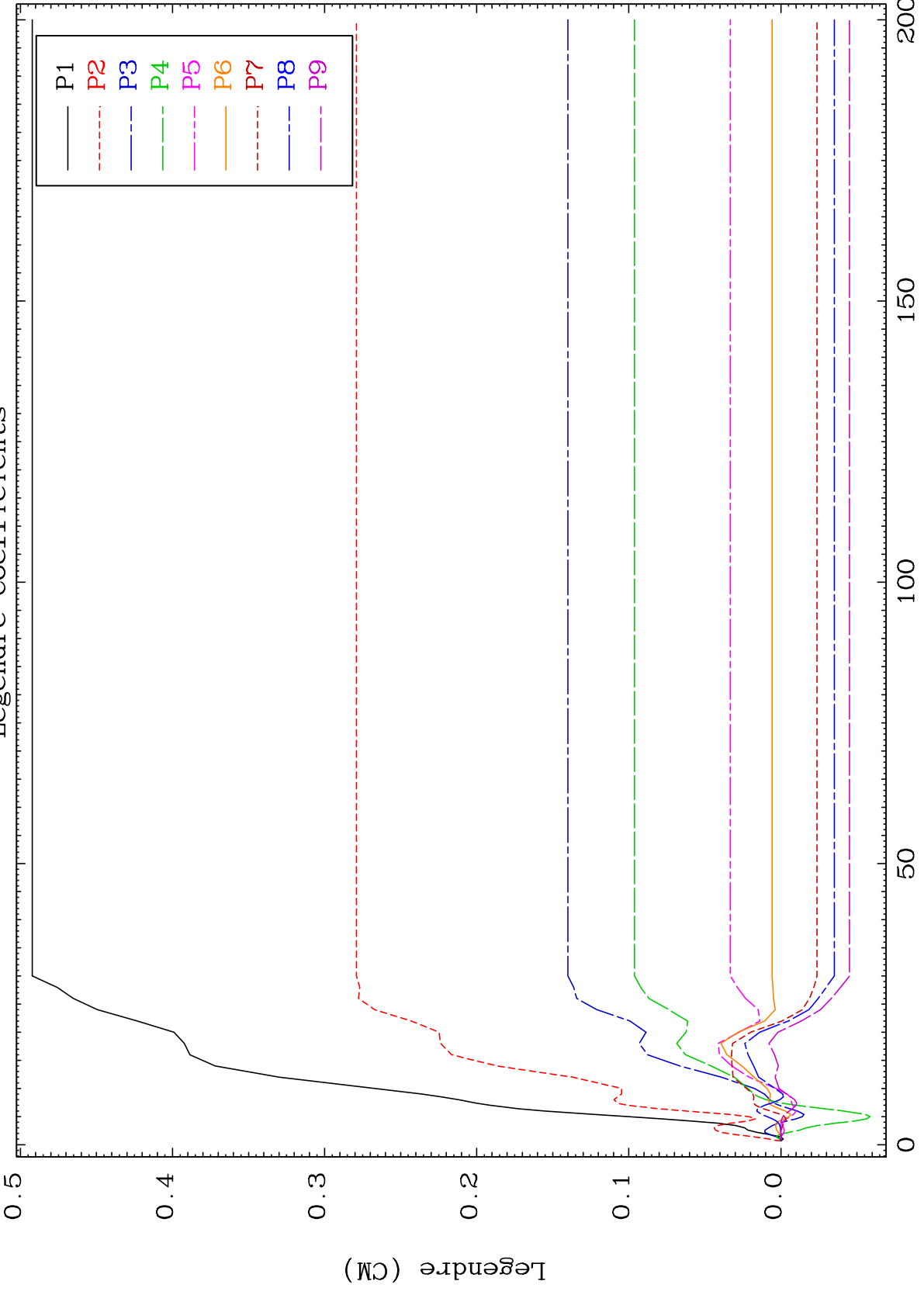
54-Xe-139



39

54-Xe-139

MAT 5470 MT= 56 (n,n') Level Legendre Coefficients 54-Xe-139

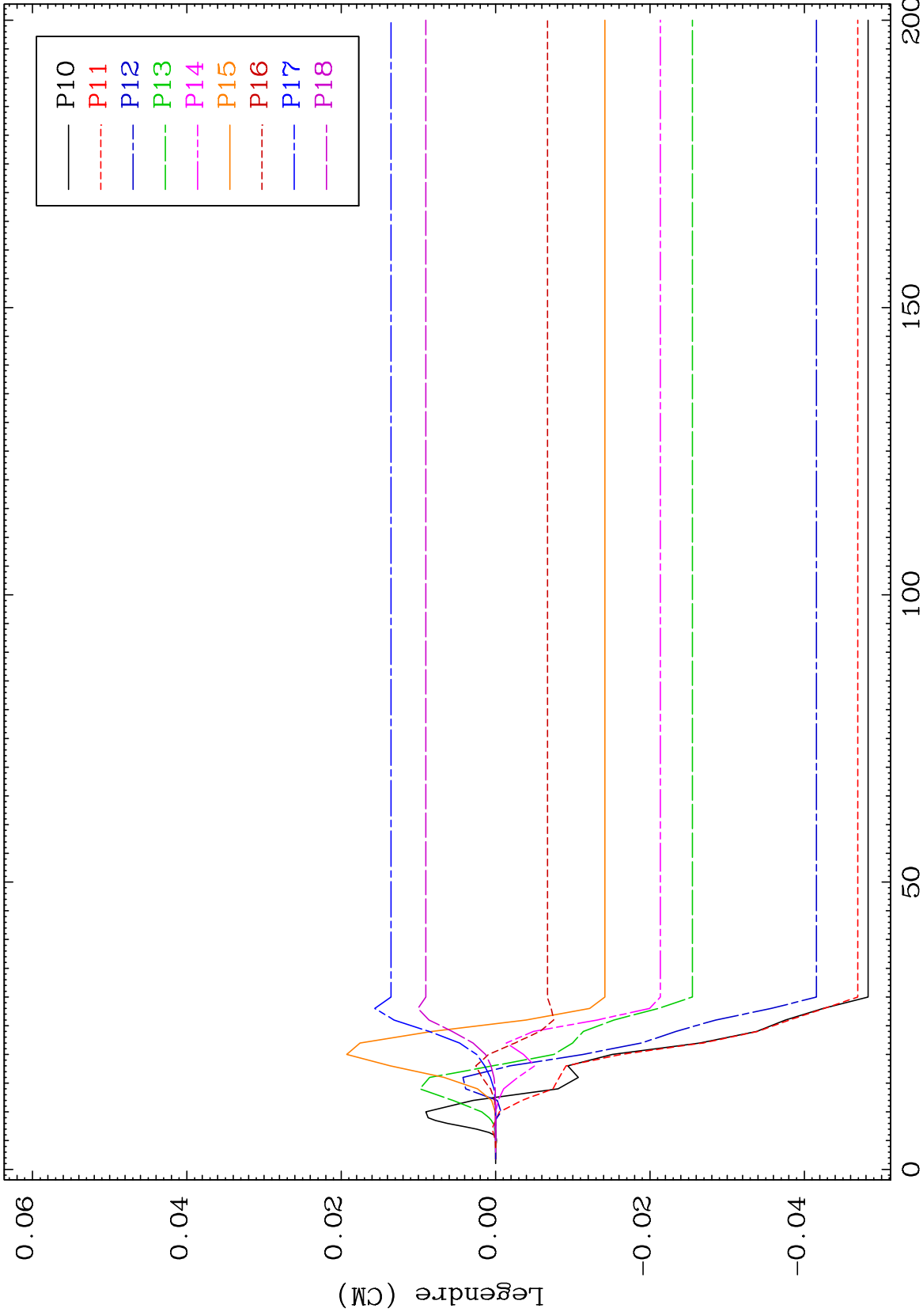


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MAT 5470

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

54-Xe-139



41

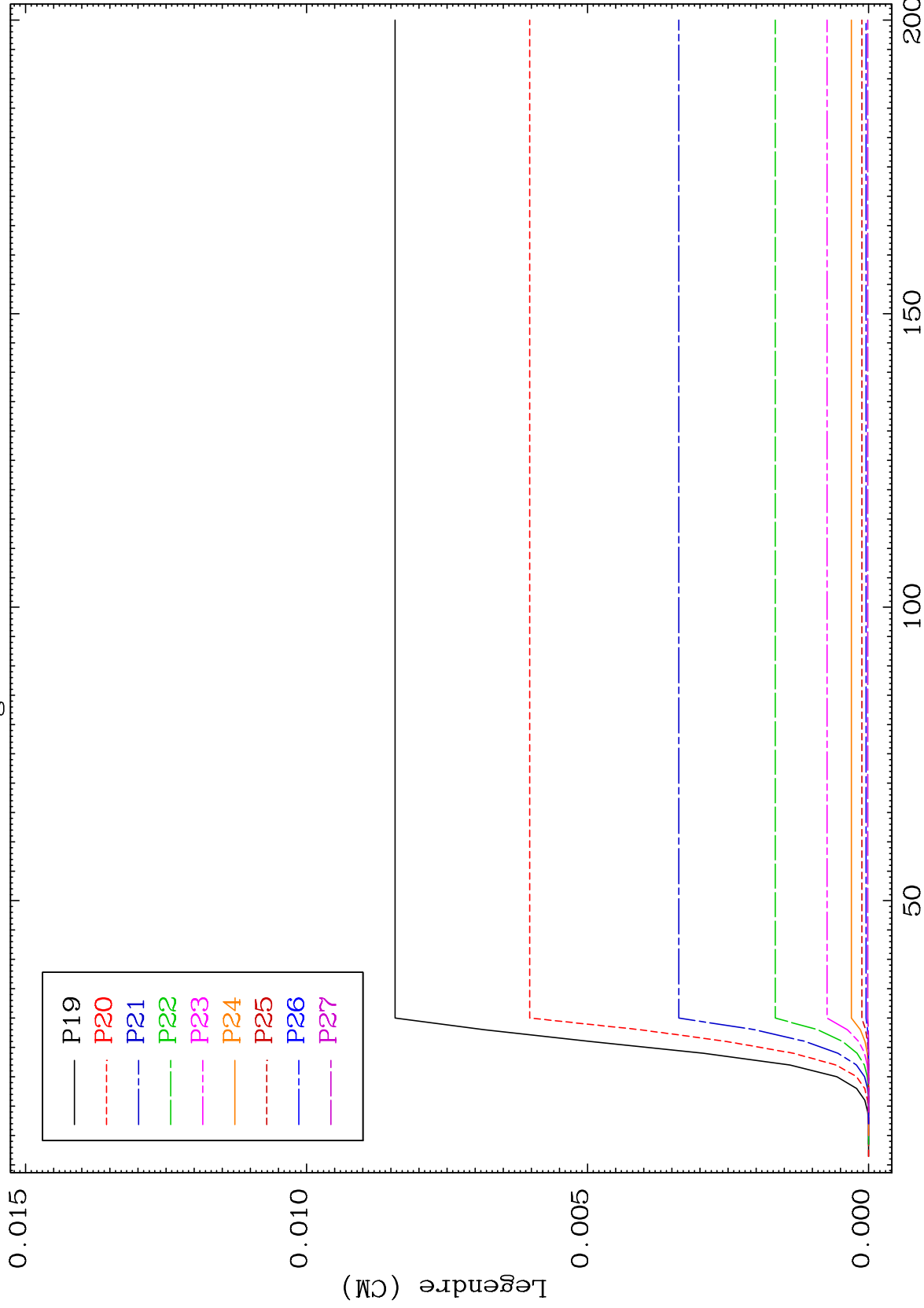
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



42

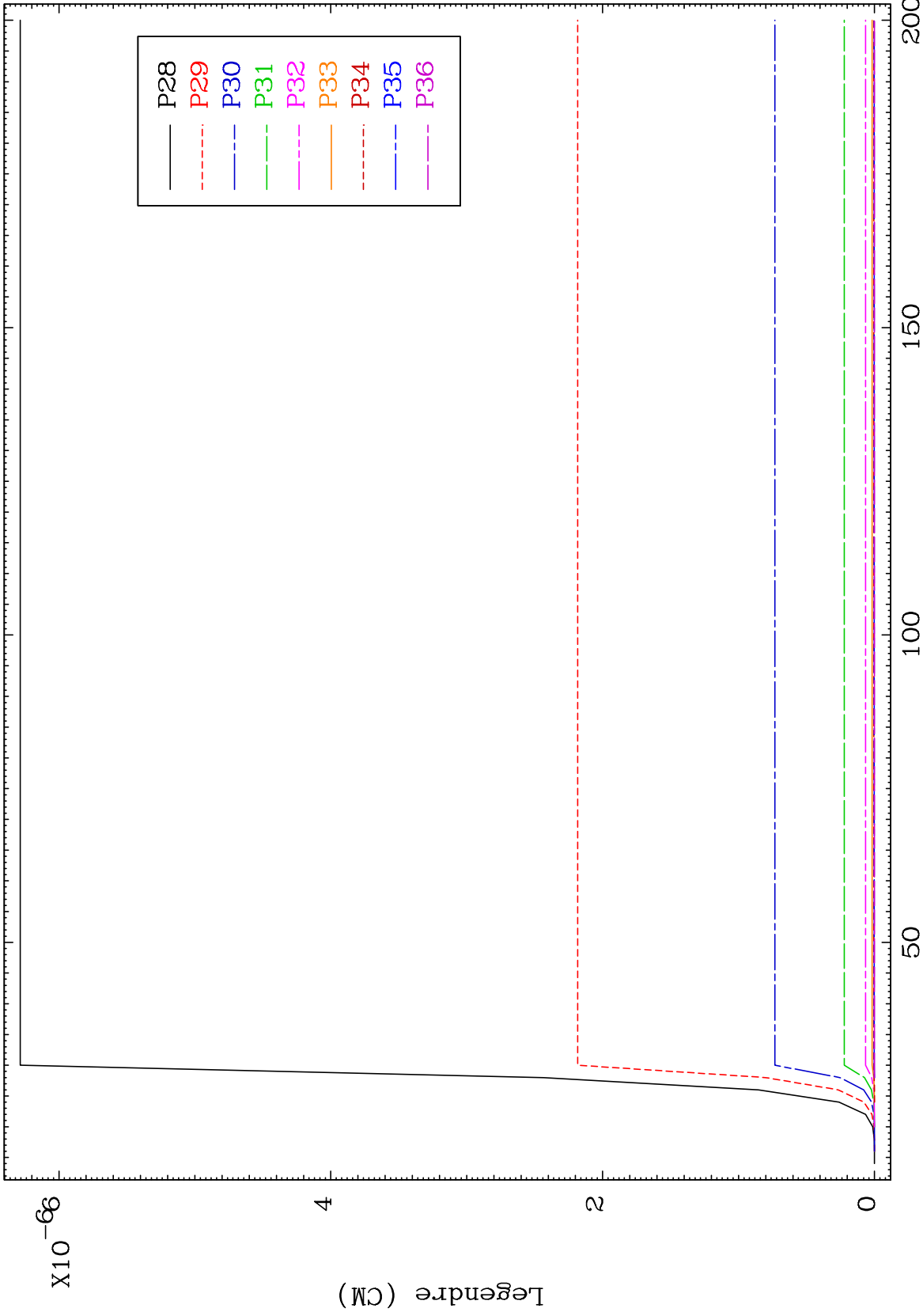
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



43

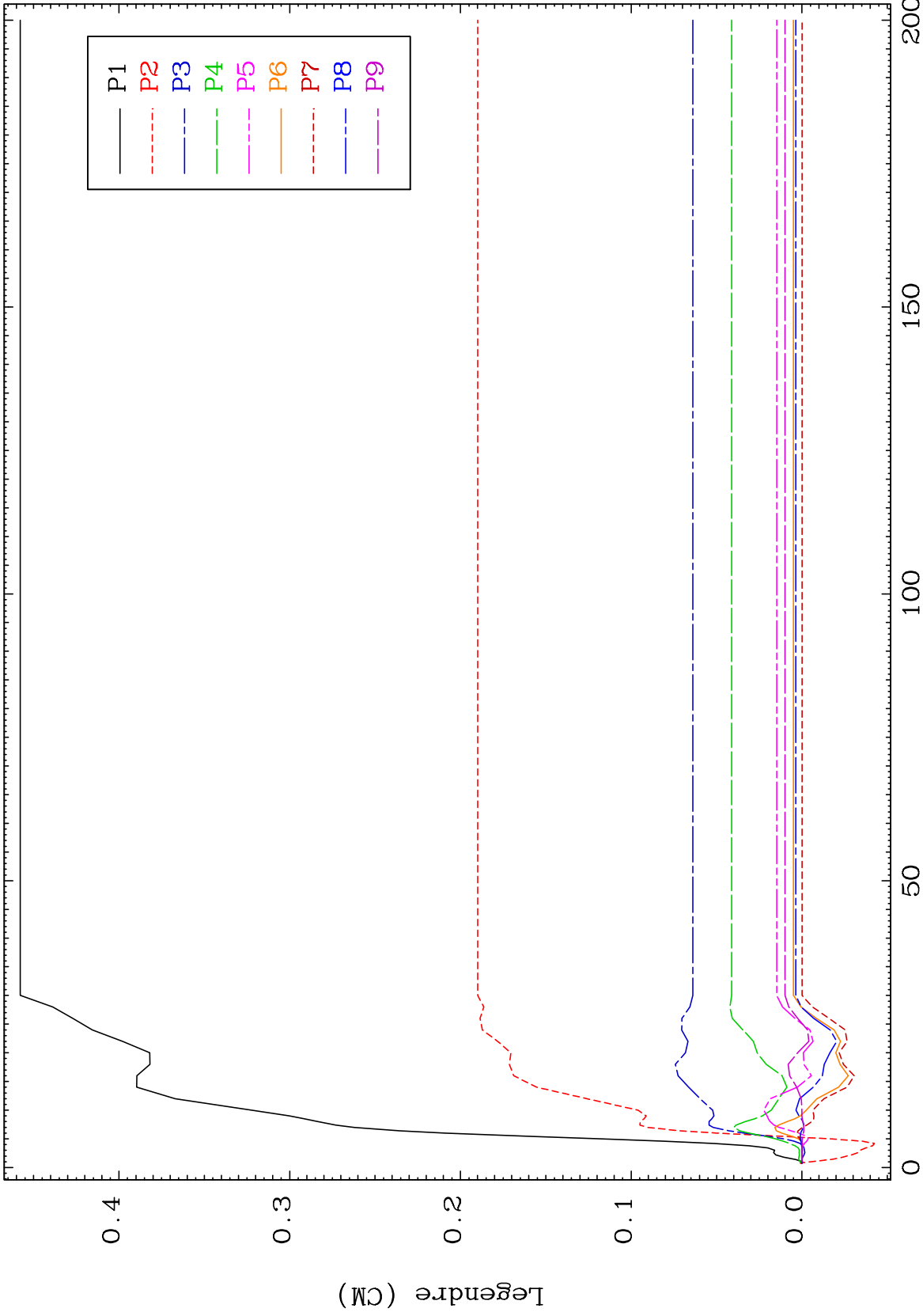
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



44

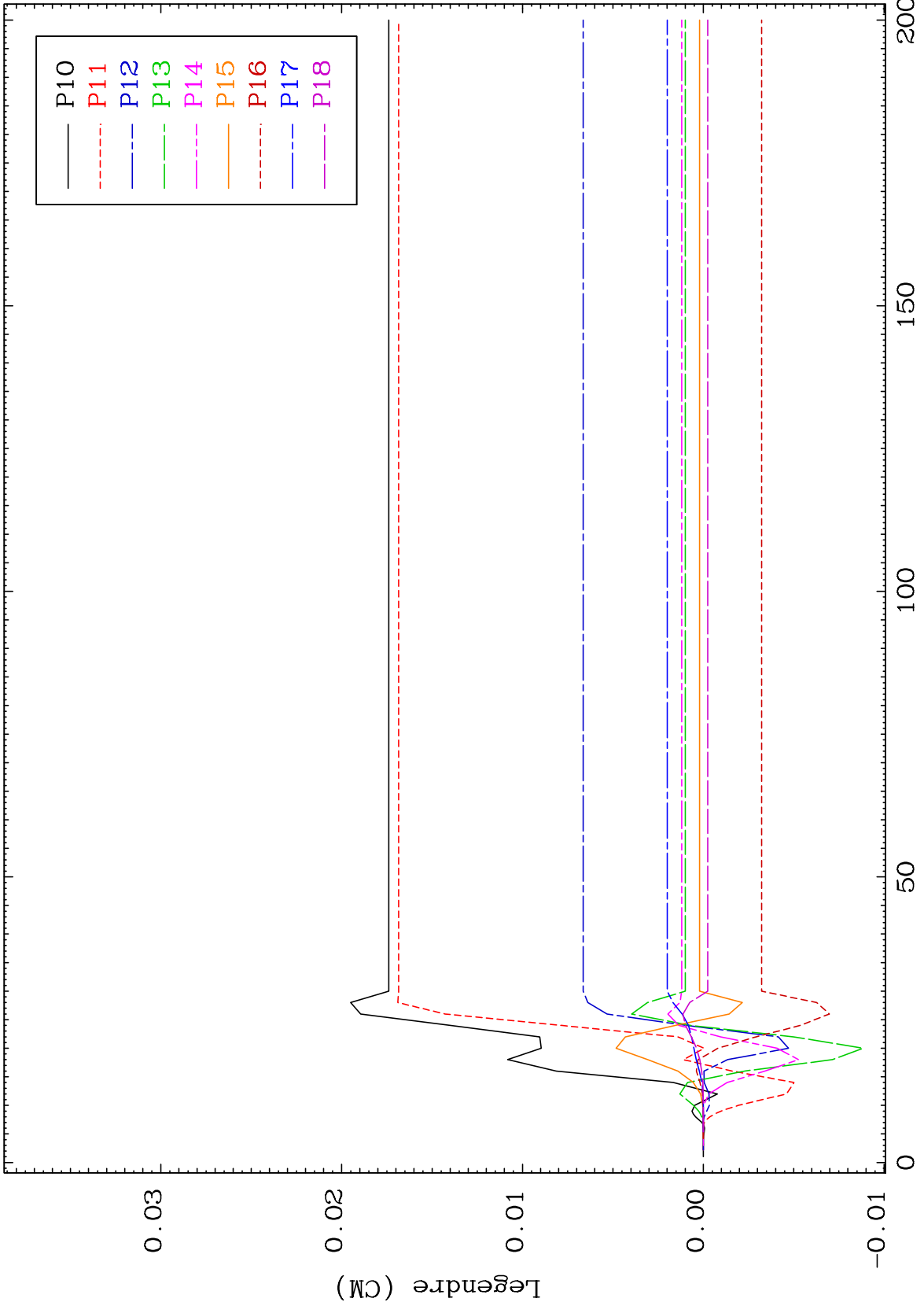
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



45

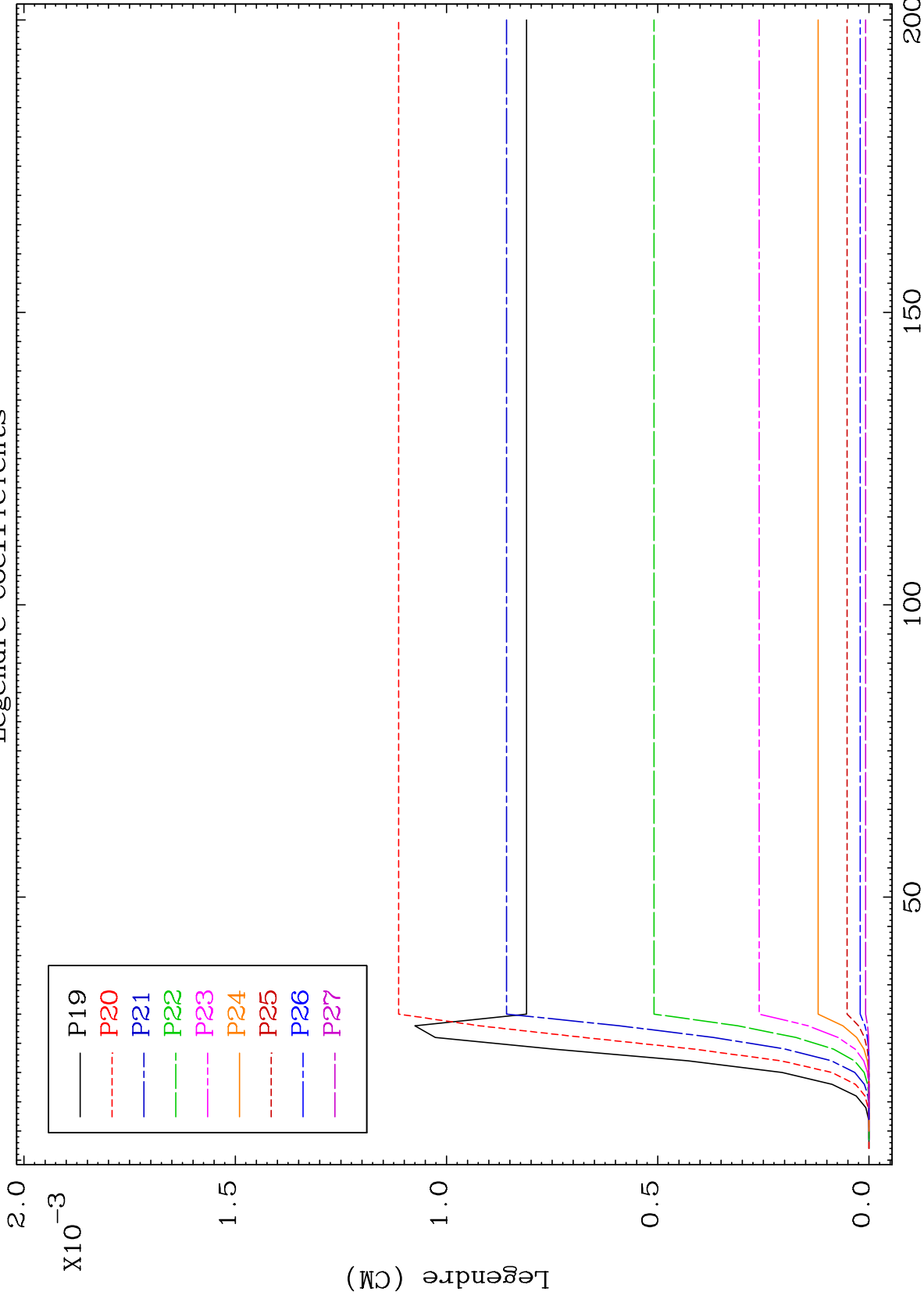
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



46

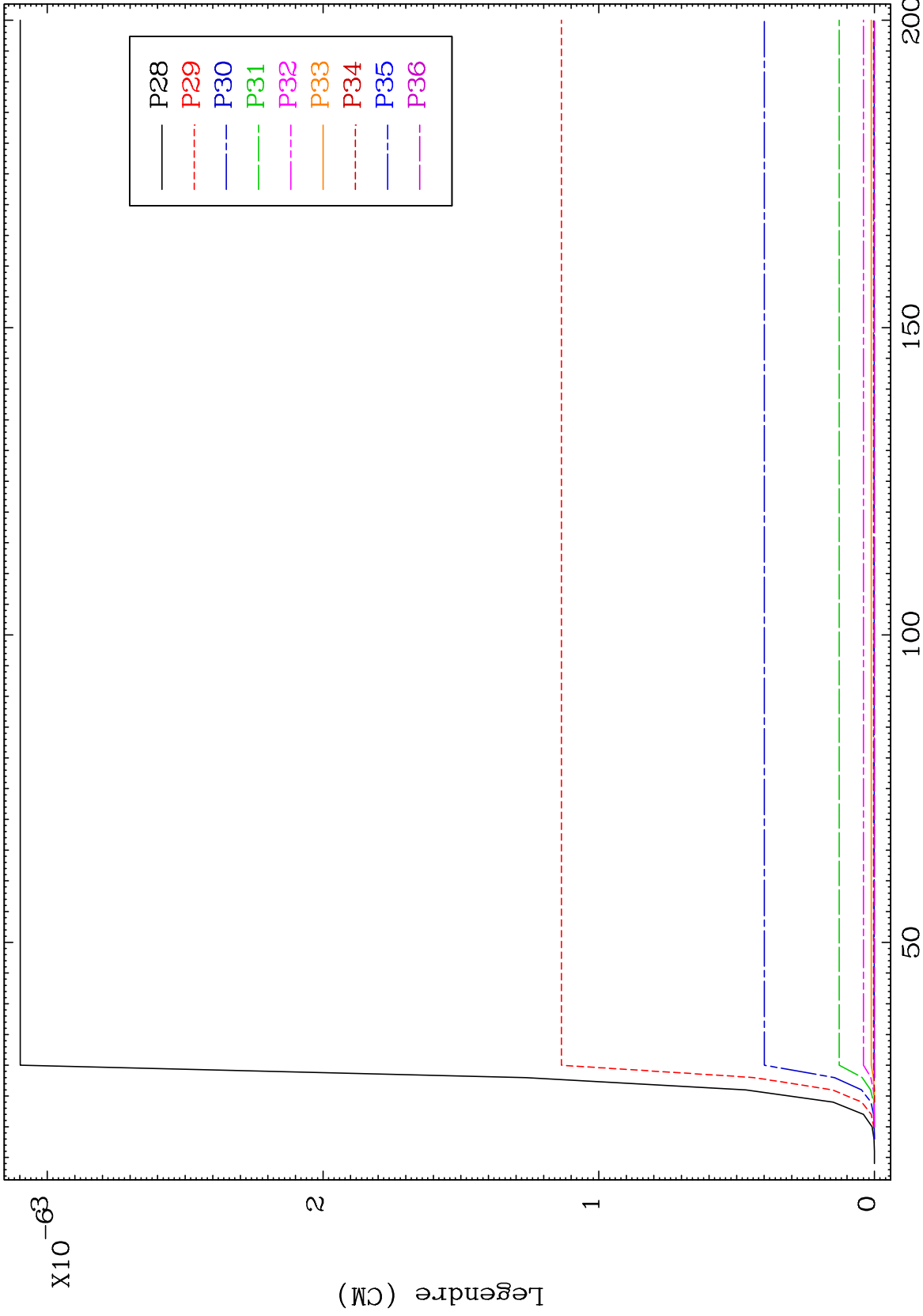
54-Xe-139

54-Xe-139

MAT 5470

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

54-Xe-139



47

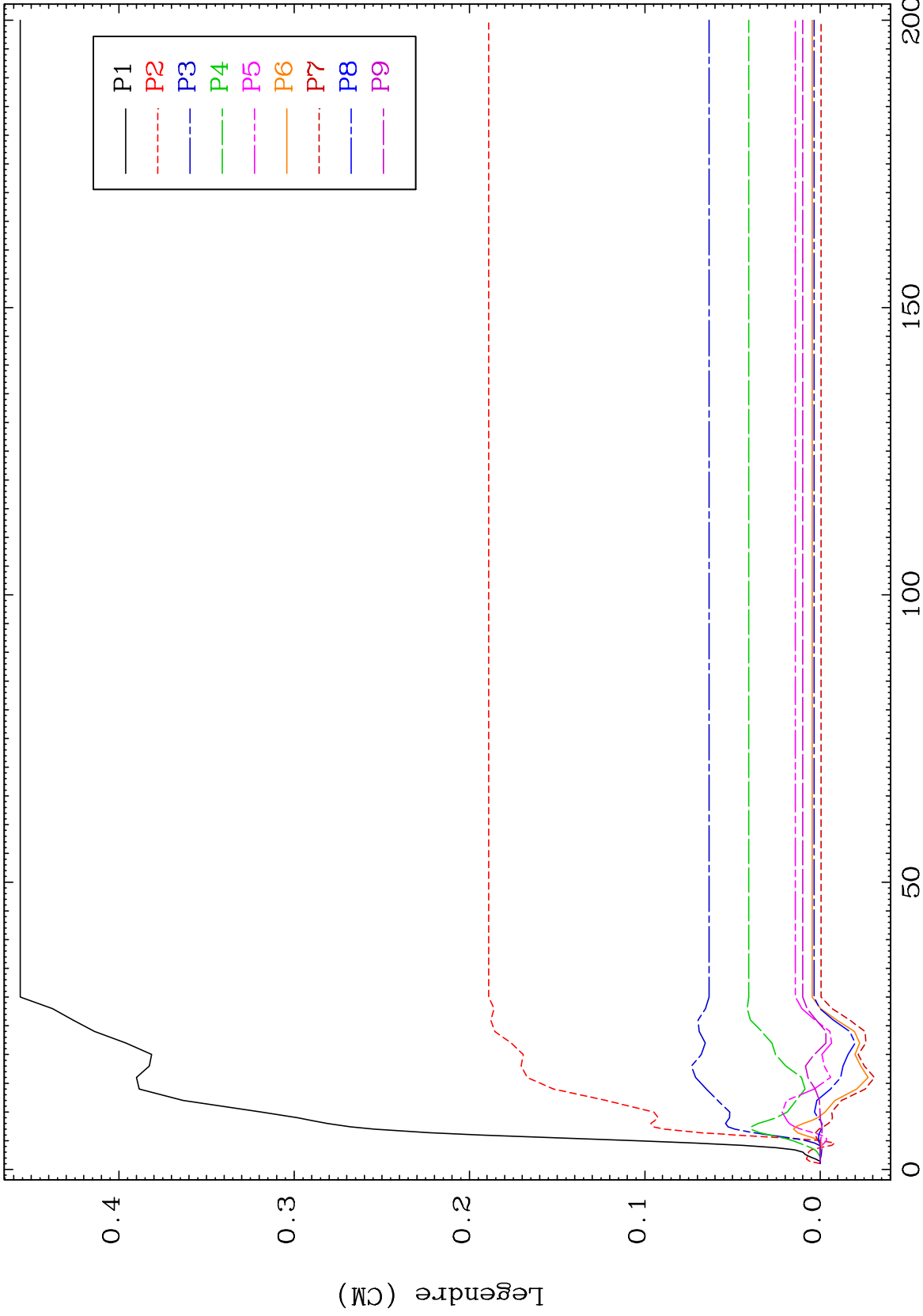
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



48

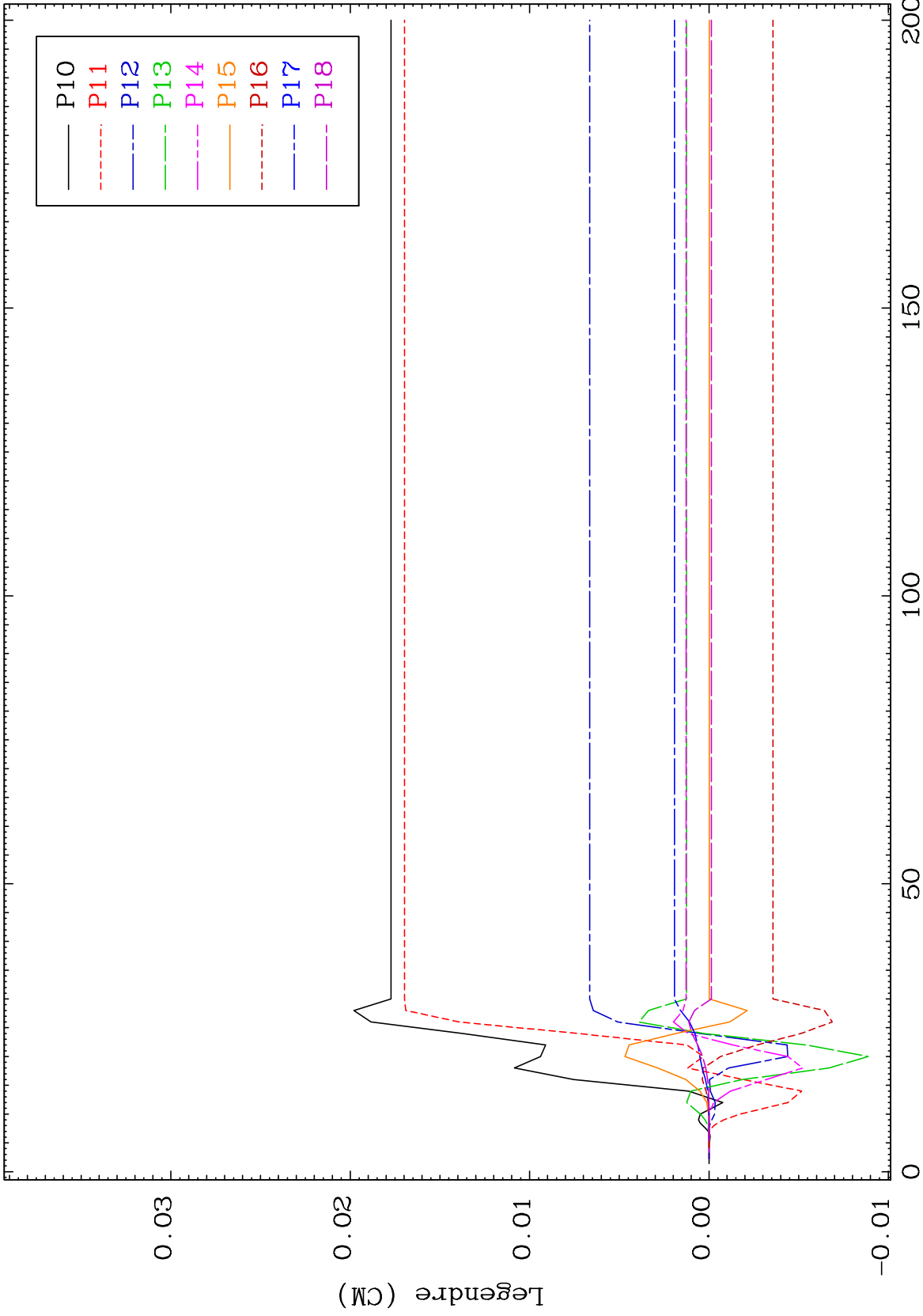
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



49

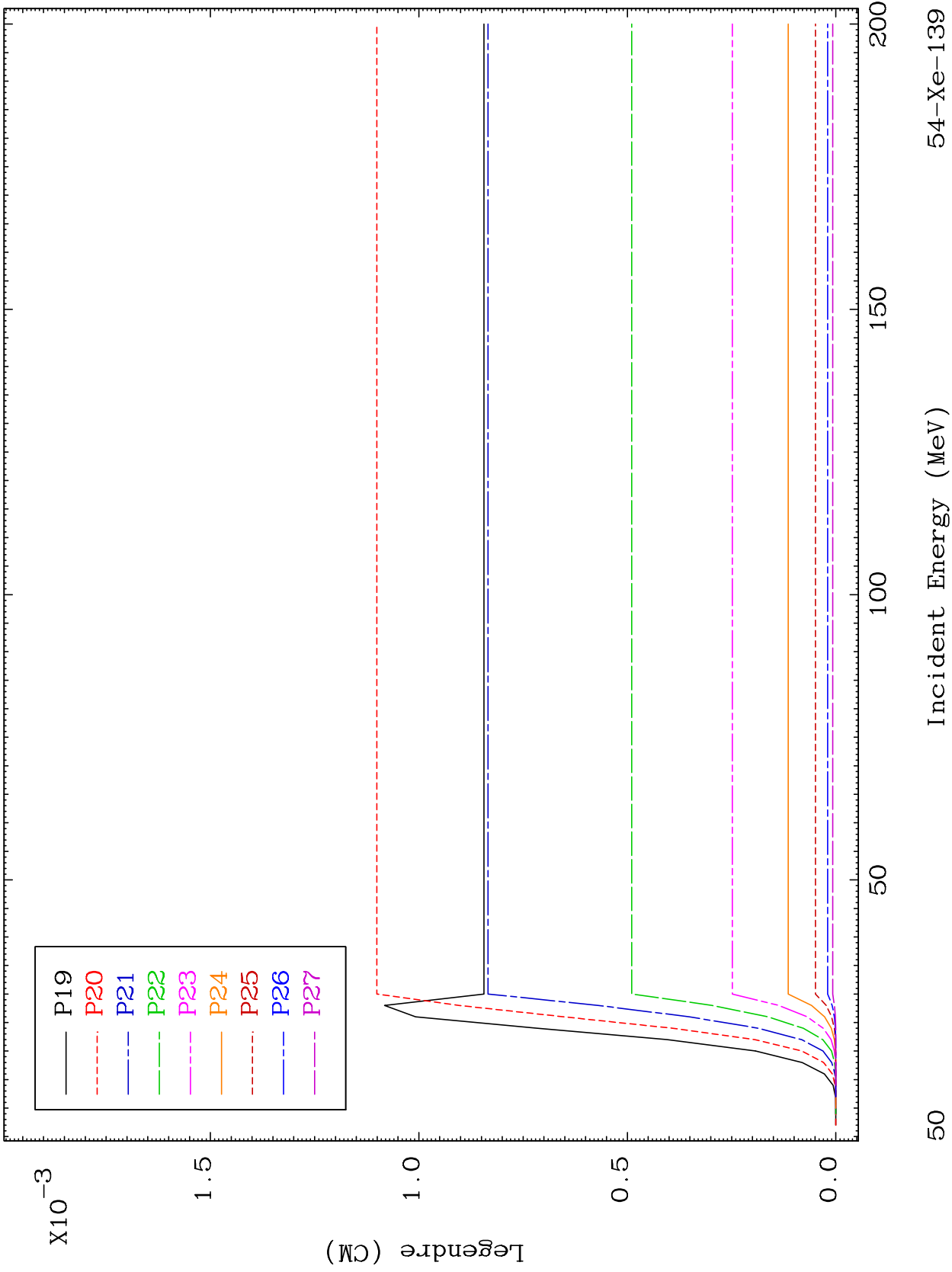
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

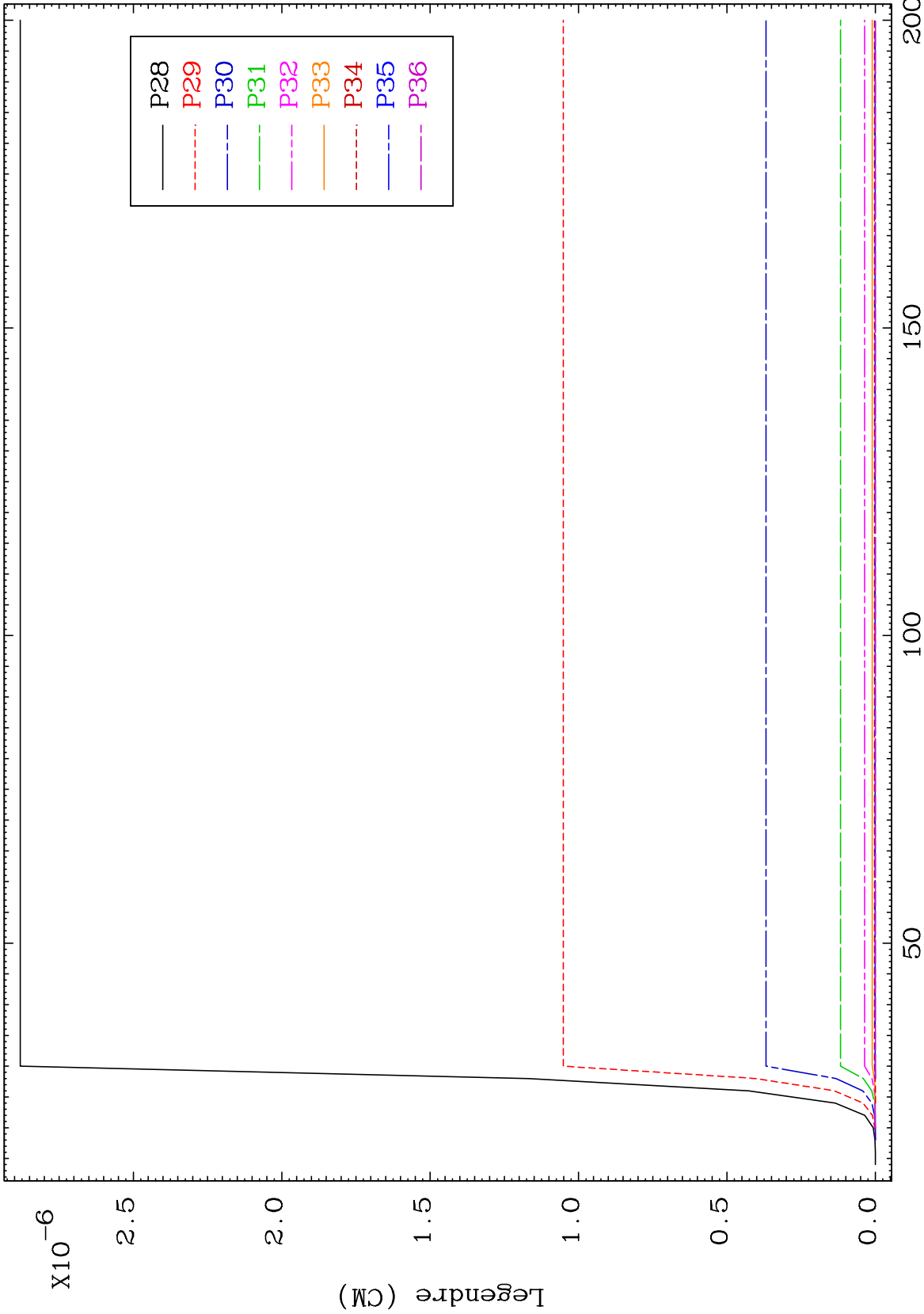
54-Xe-139



MAT 5470

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

54-Xe-139



51

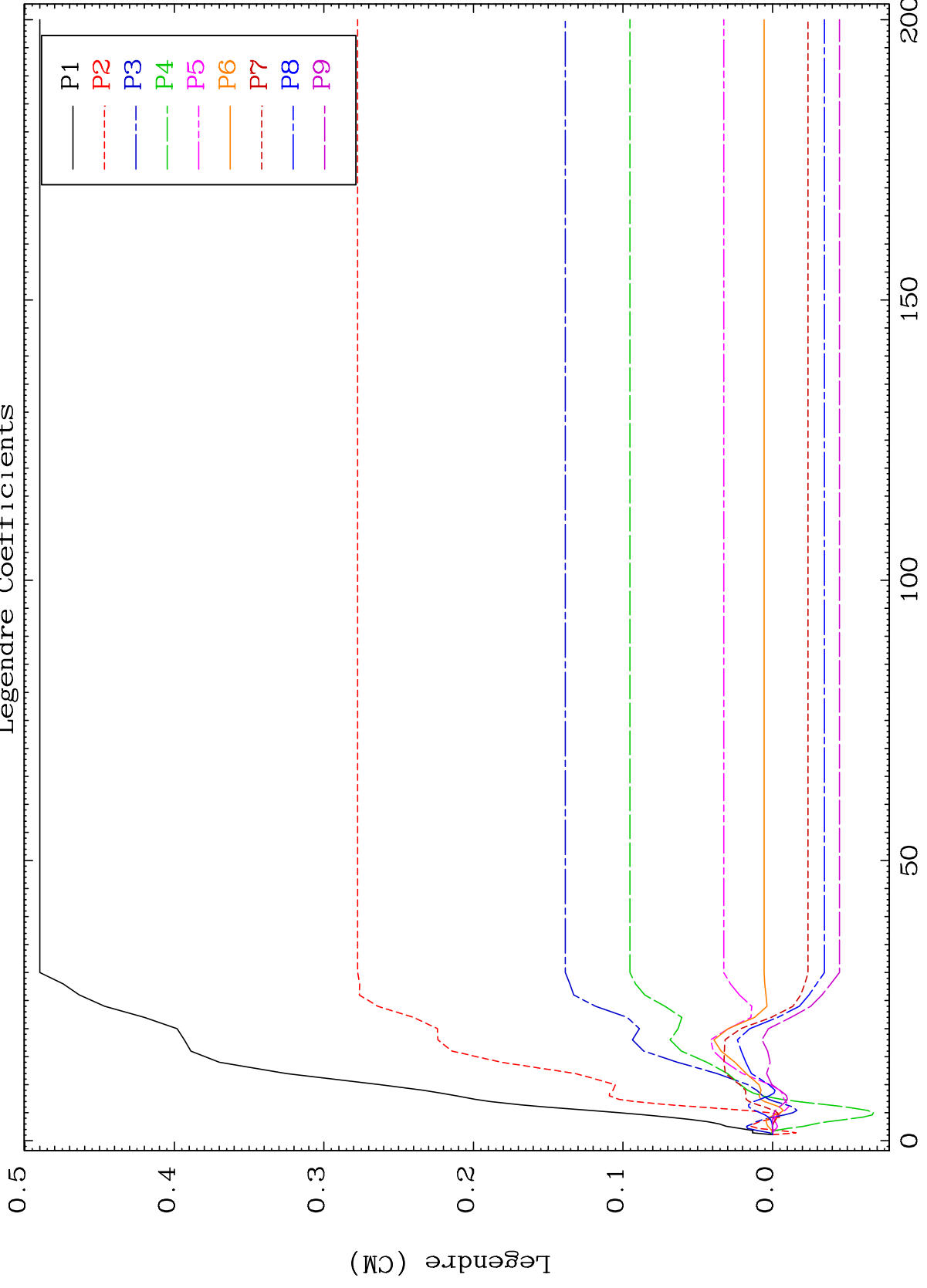
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



54-Xe-139

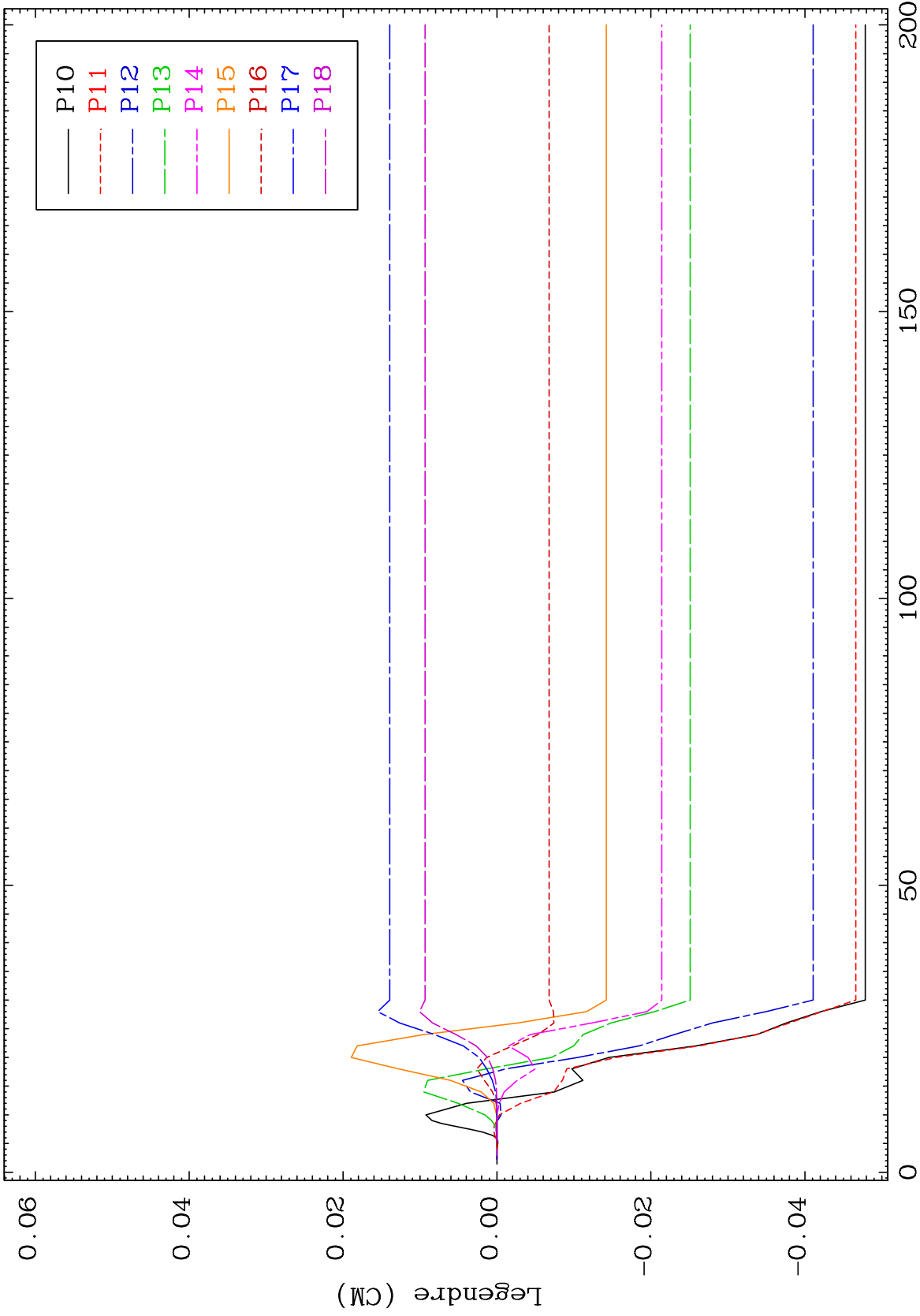
Incident Energy (MeV)

52

MAT 5470

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

54-Xe-139

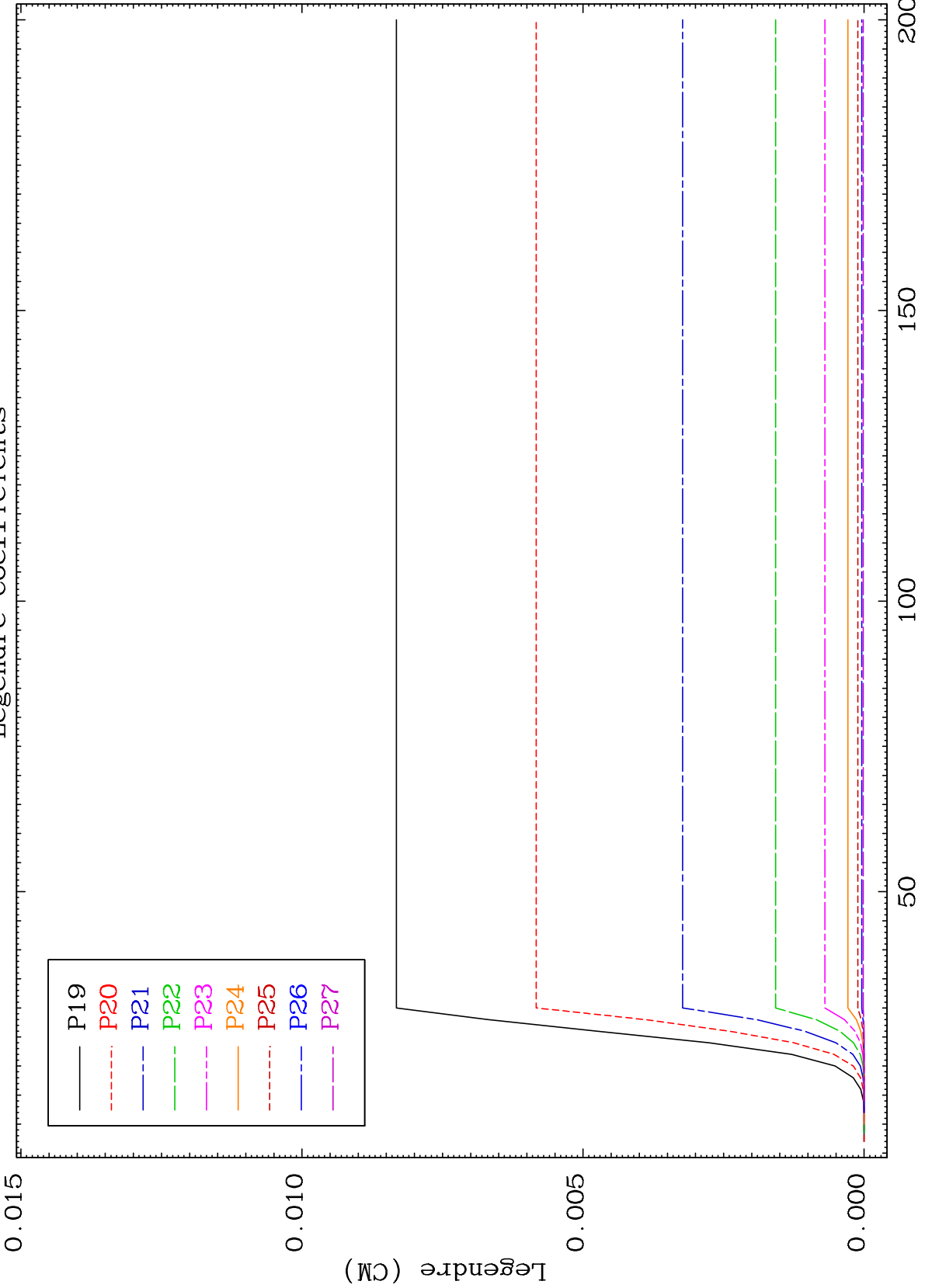


53

Incident Energy (MeV)

54-Xe-139

MAT 5470 MT= 59 (n,n') Level Legendre Coefficients 54-Xe-139



54-Xe-139

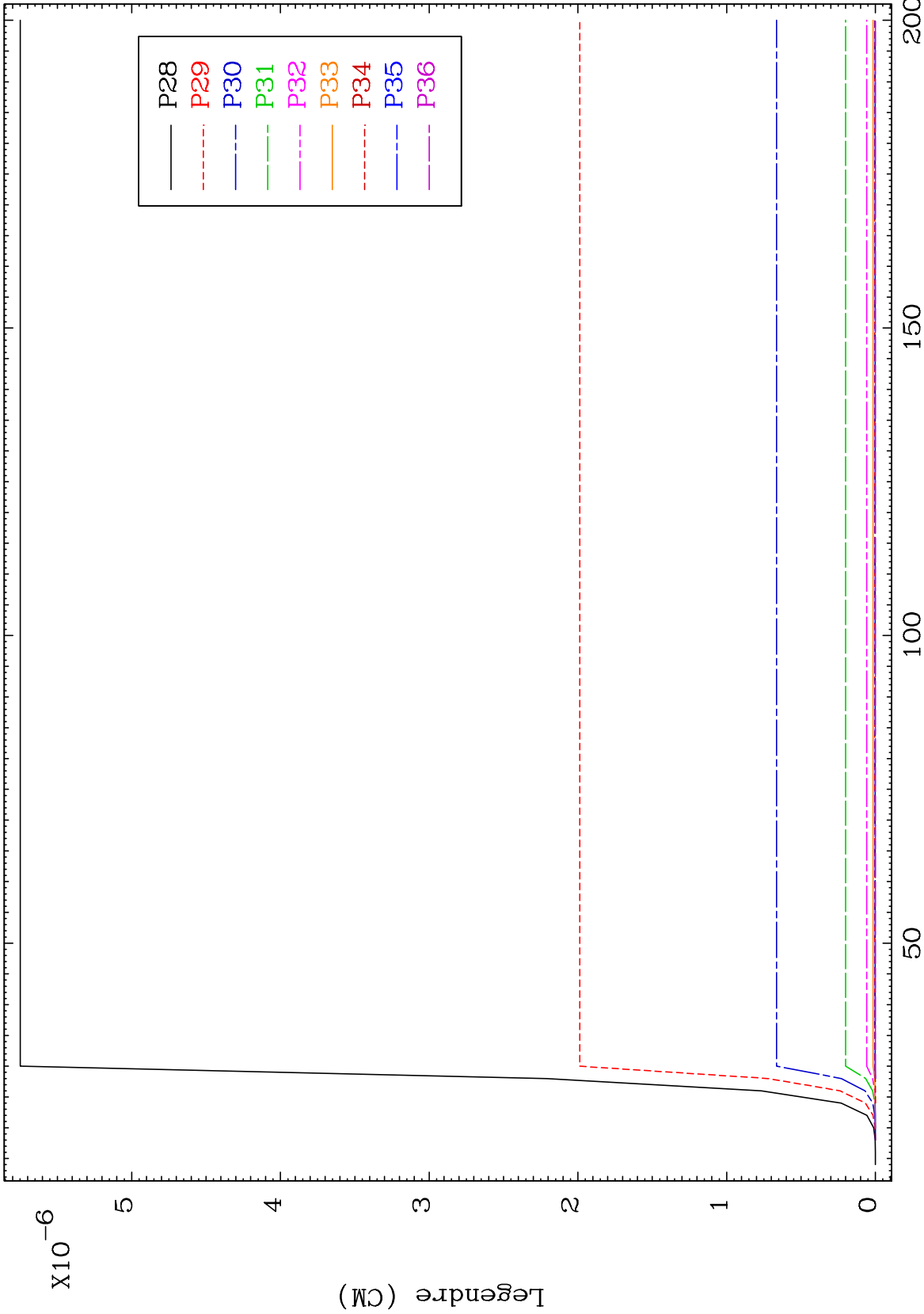
Incident Energy (MeV)

54

MAT 5470

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

54-Xe-139



55

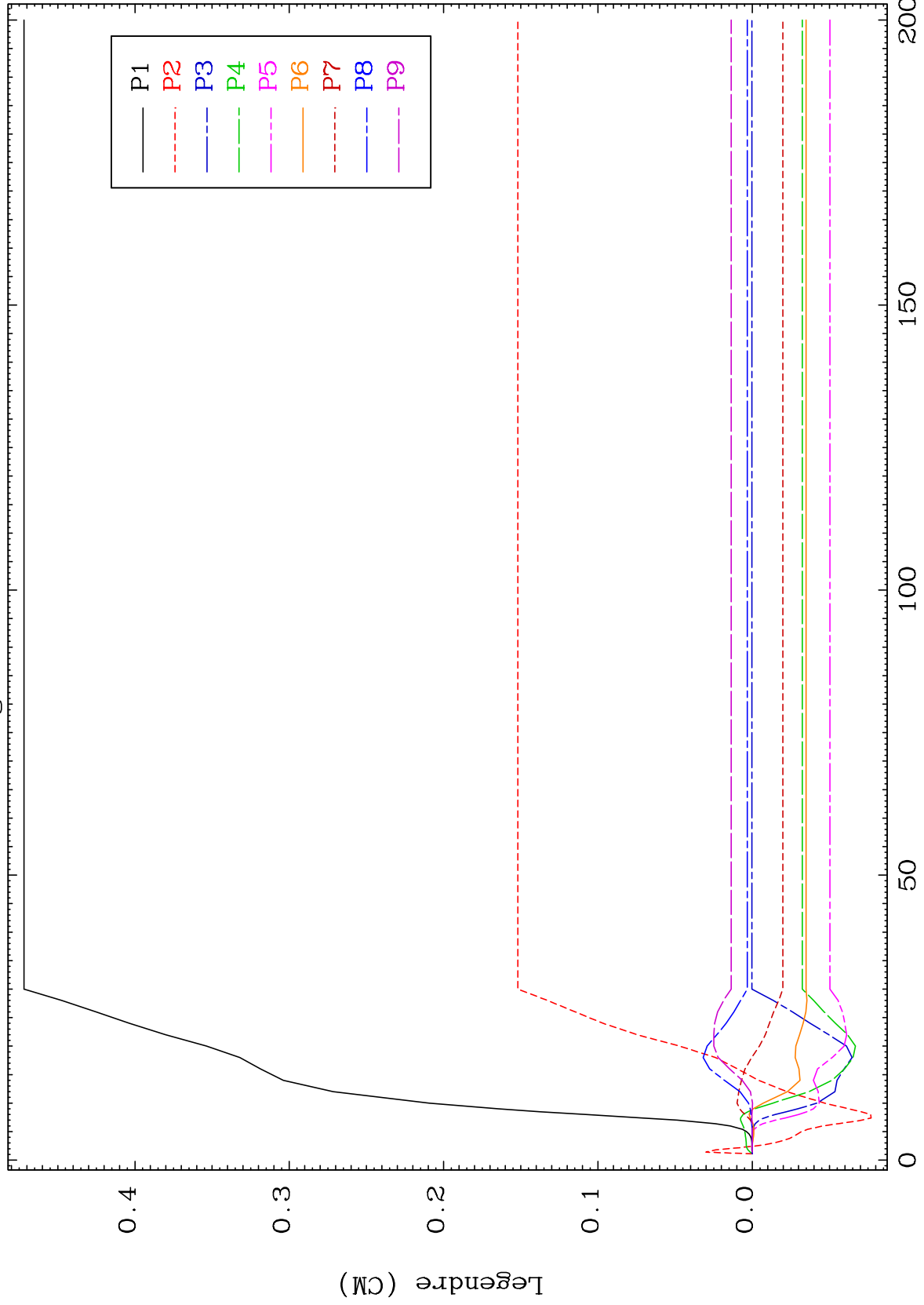
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



56

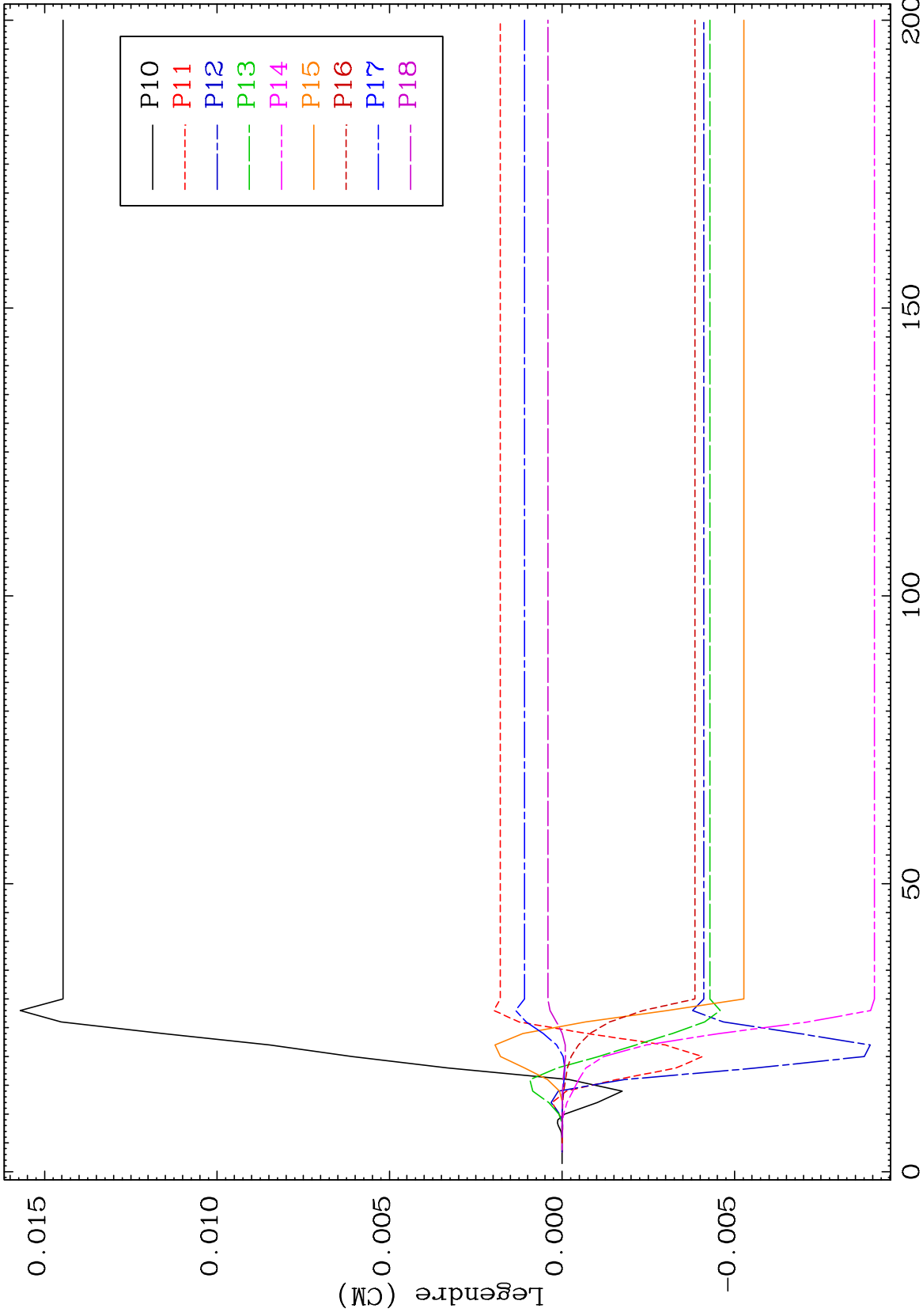
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



57

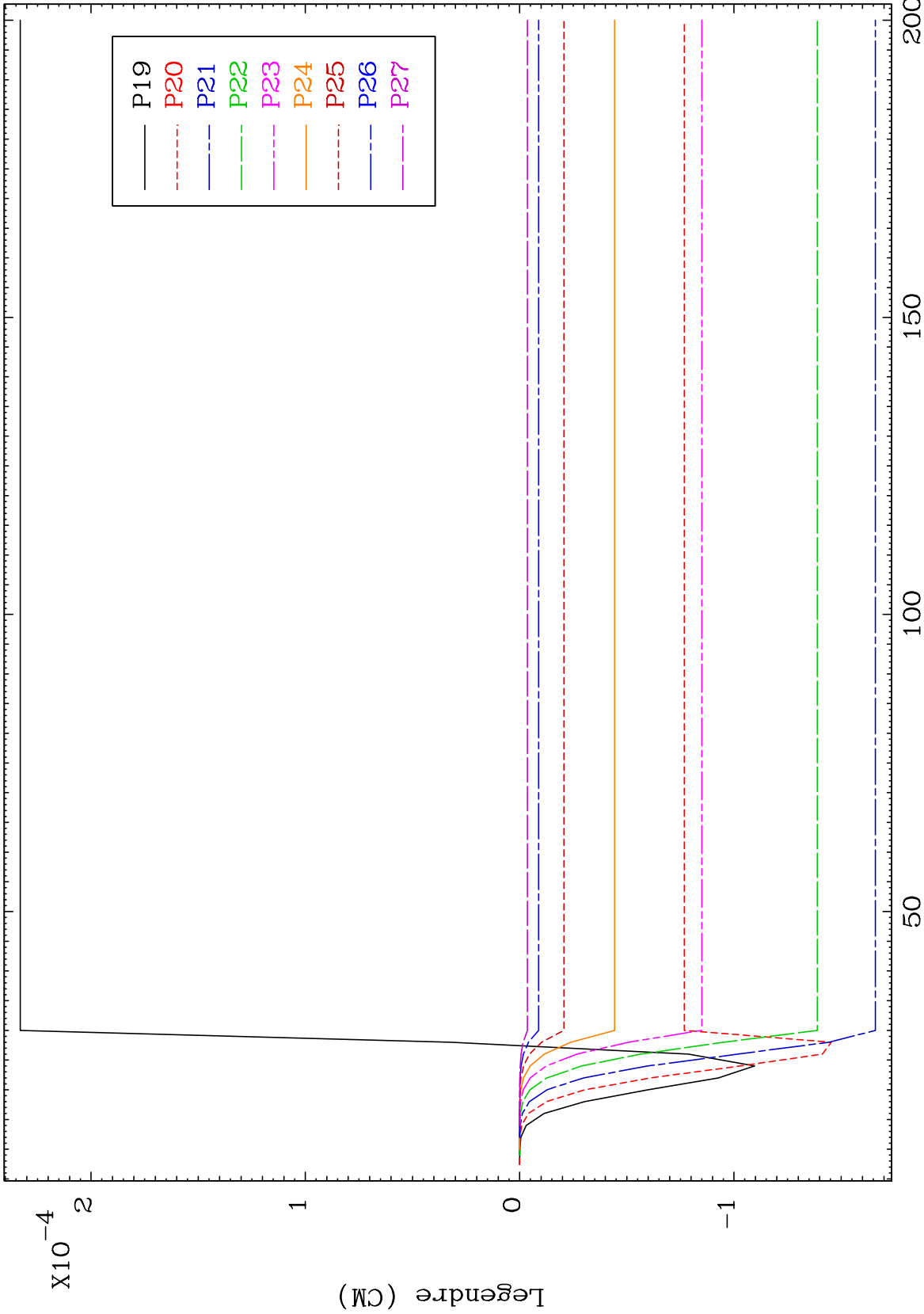
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



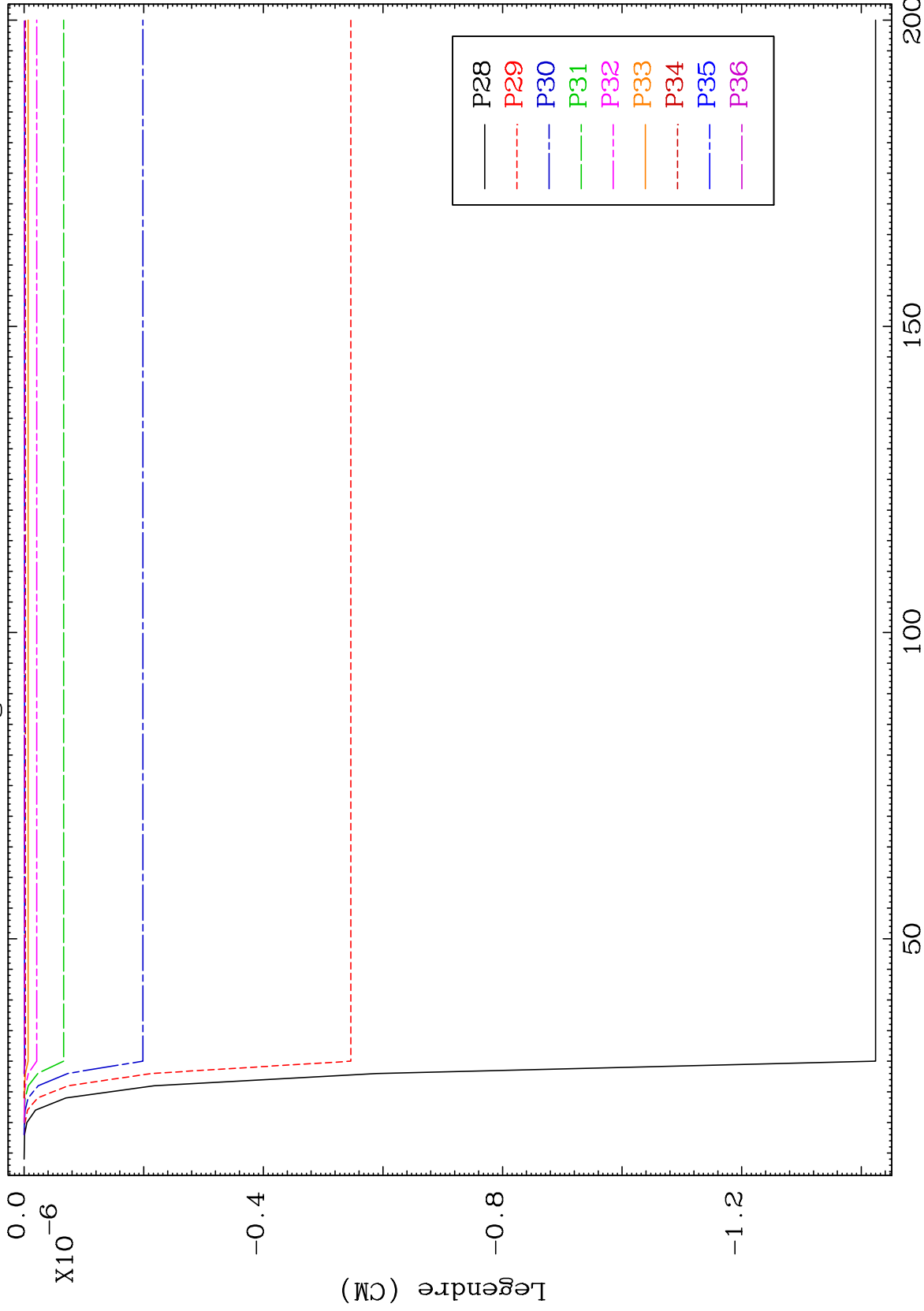
58

54-Xe-139

MAT 5470

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

54-Xe-139



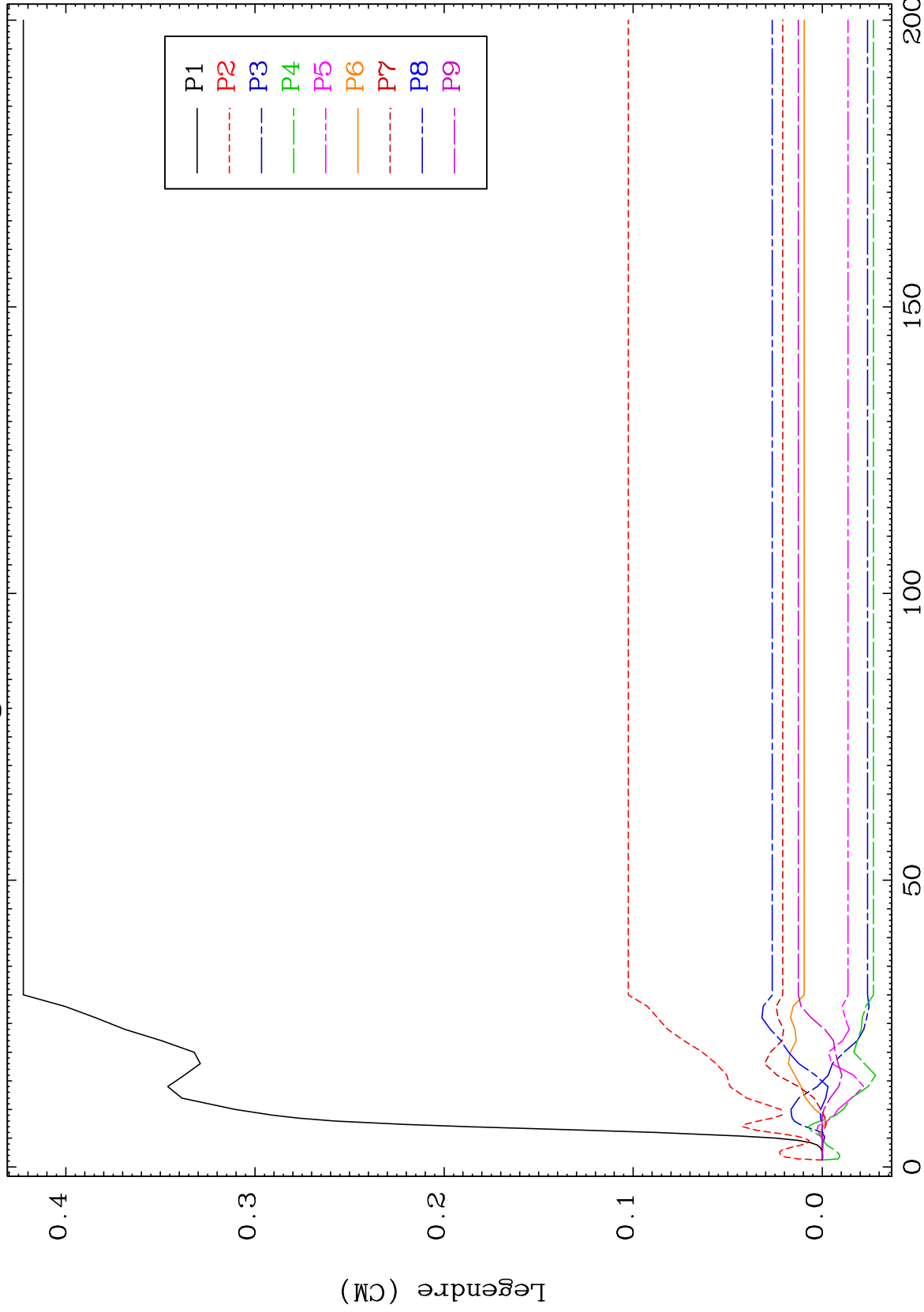
59

54-Xe-139

MAT 5470

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

54-Xe-139



54-Xe-139

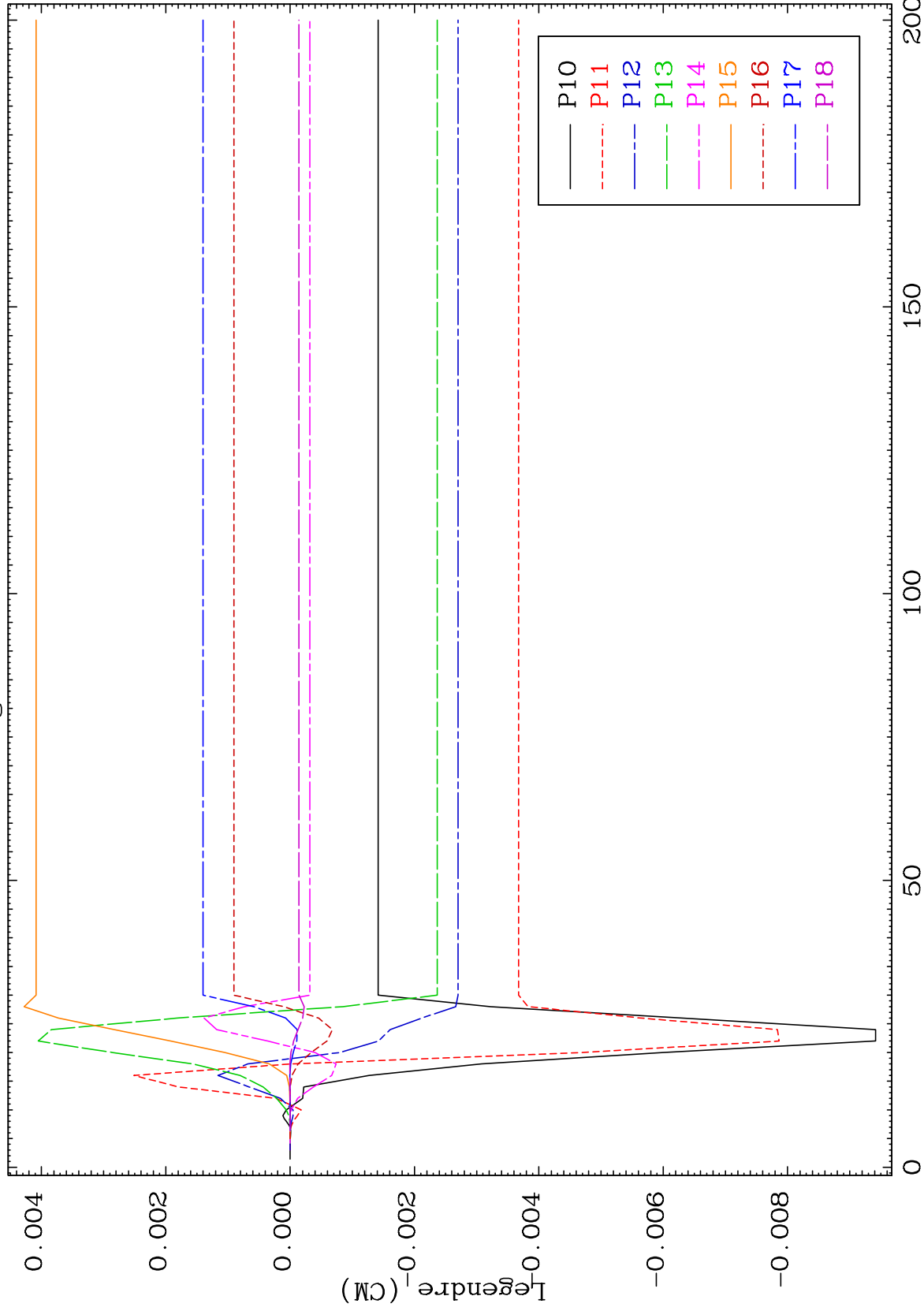
Incident Energy (MeV)

60

MAT 5470

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

54-Xe-139



61

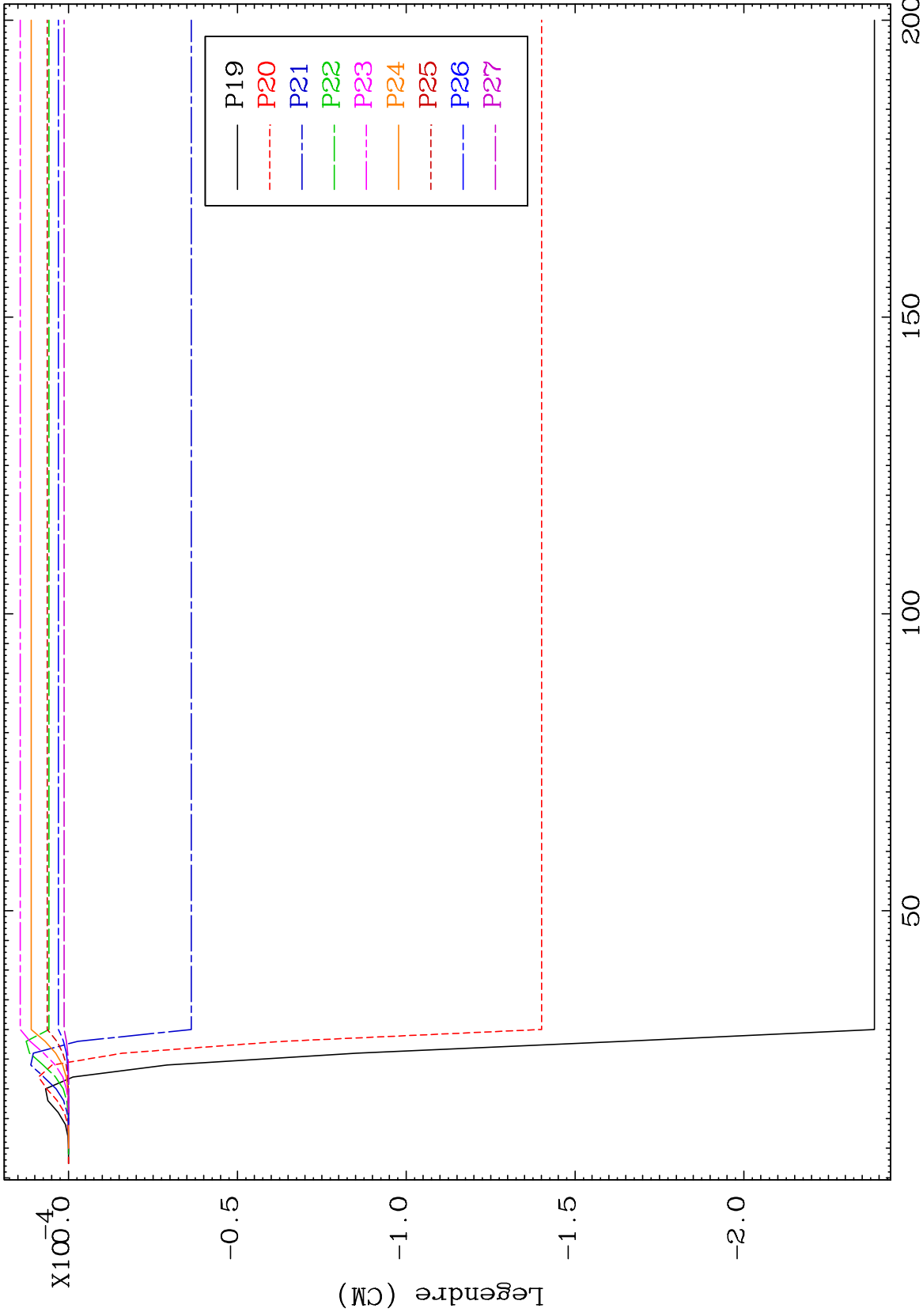
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



62

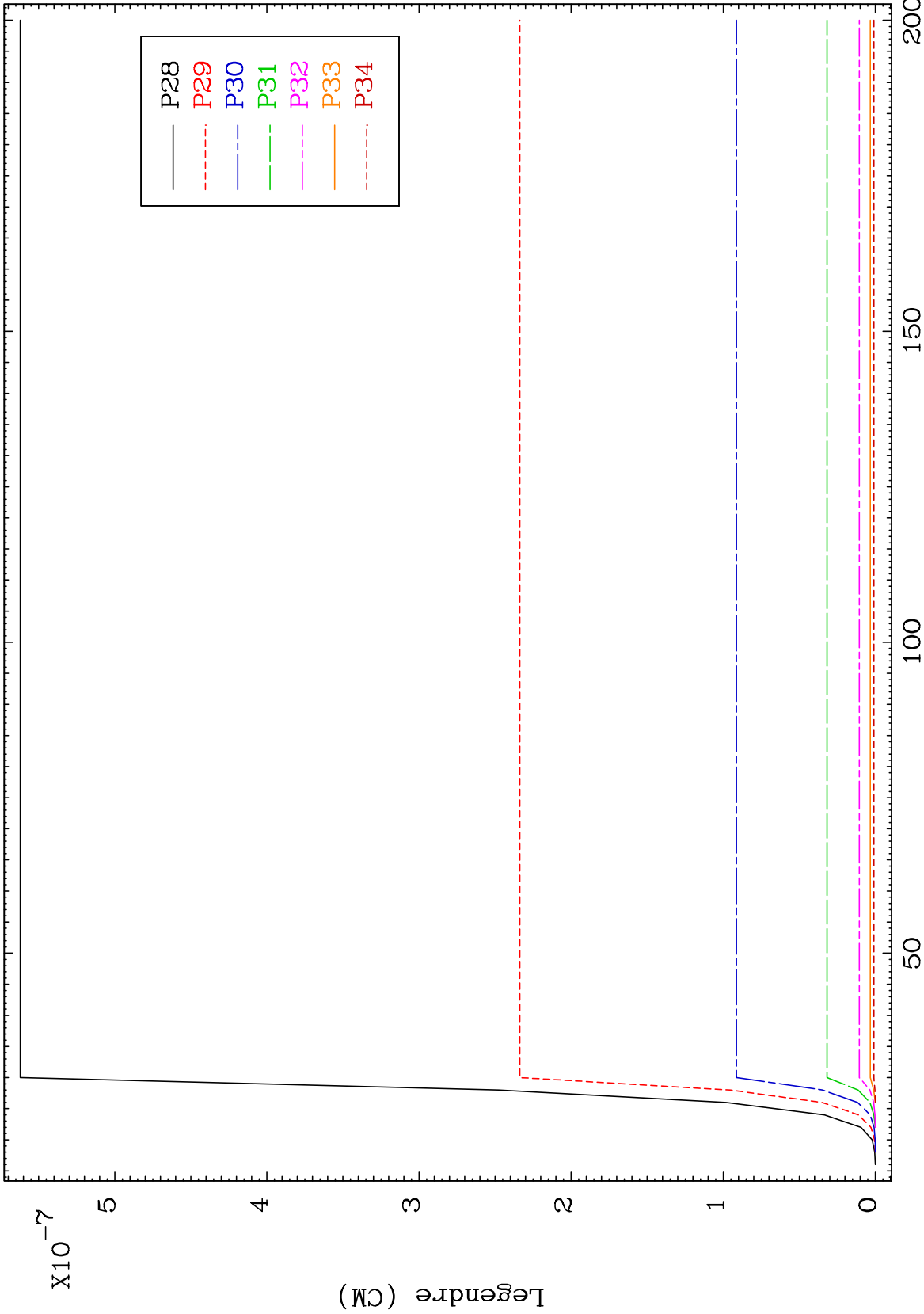
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



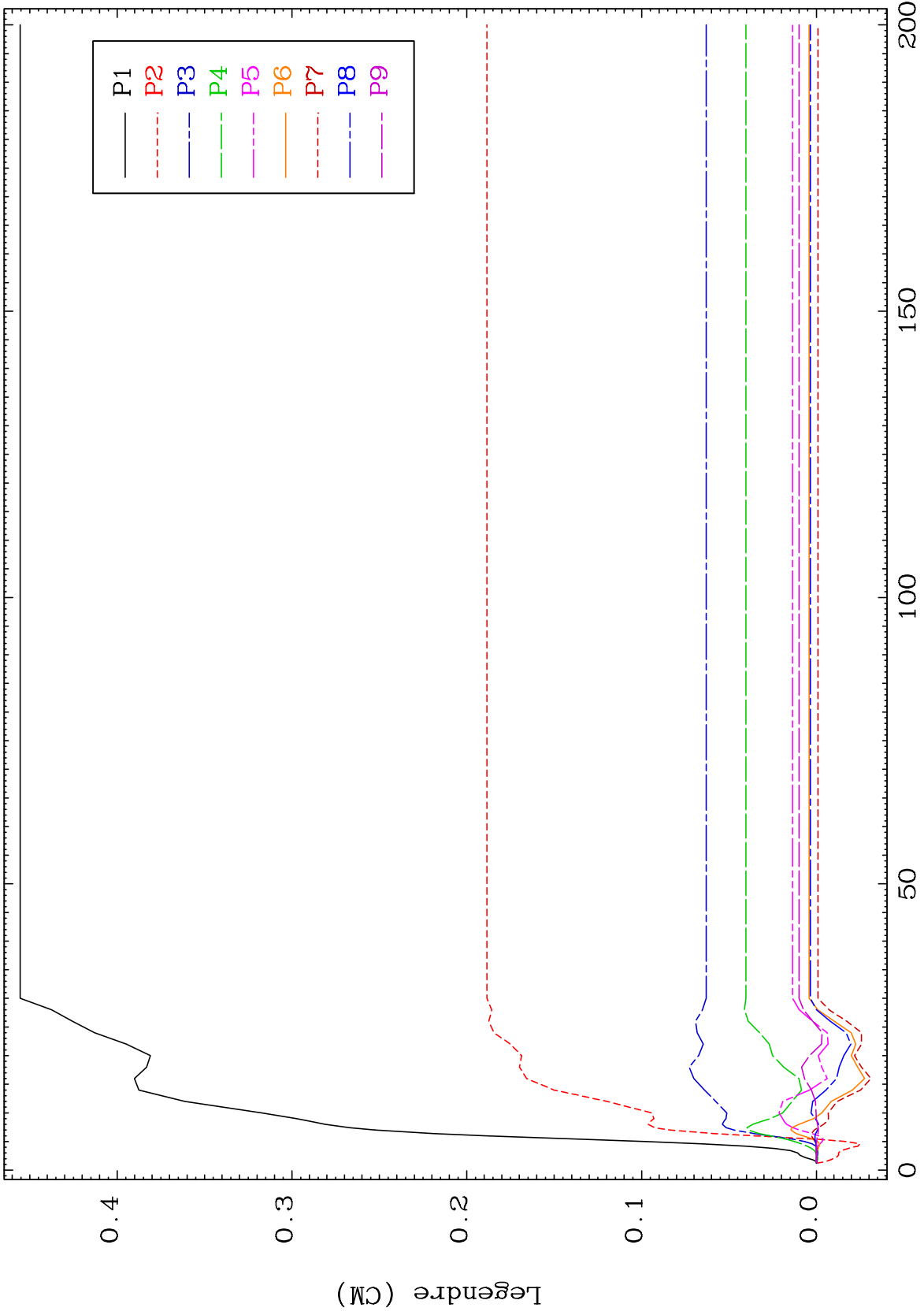
63

54-Xe-139

MAT 5470

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

54-Xe-139



64

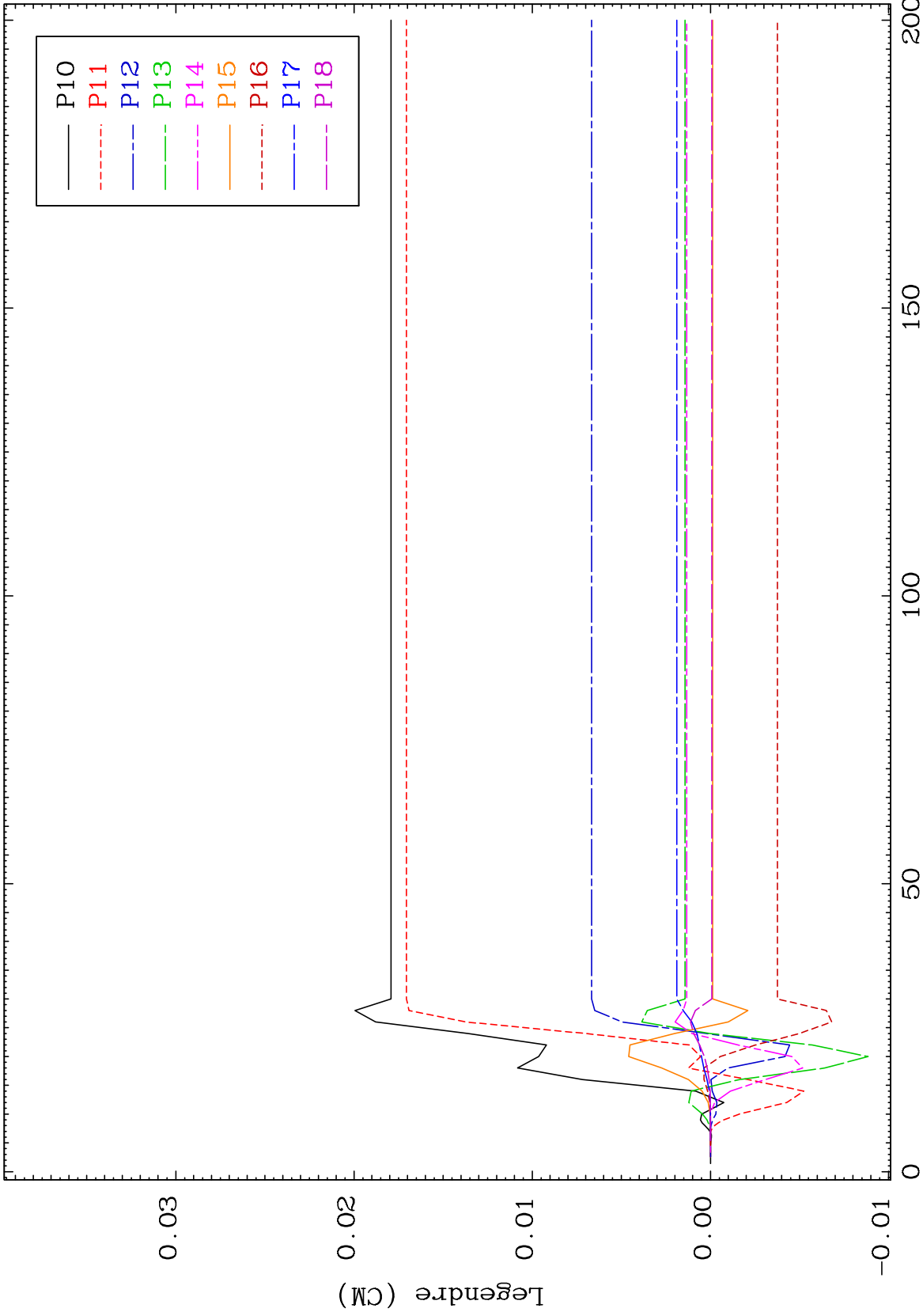
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



65

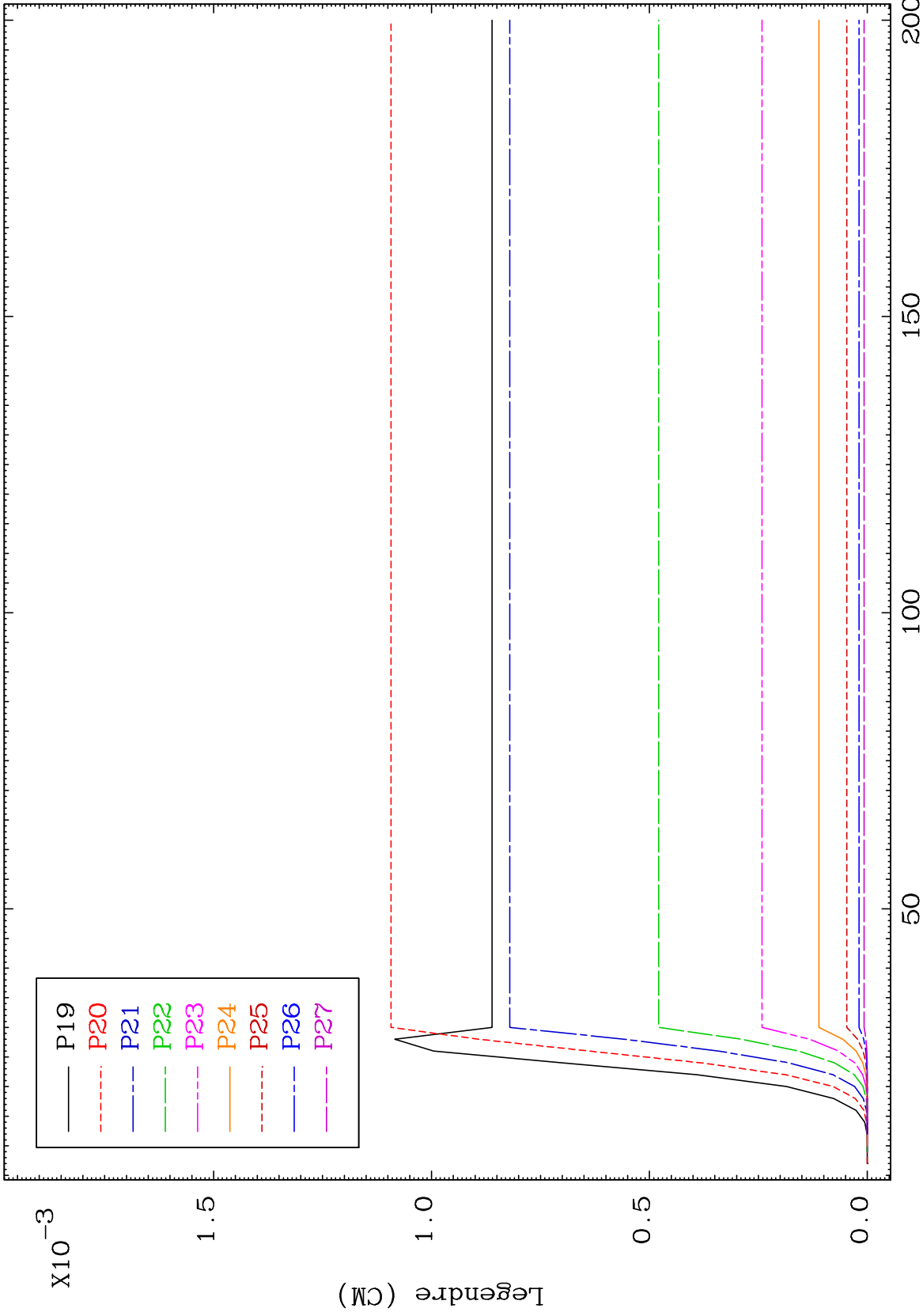
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



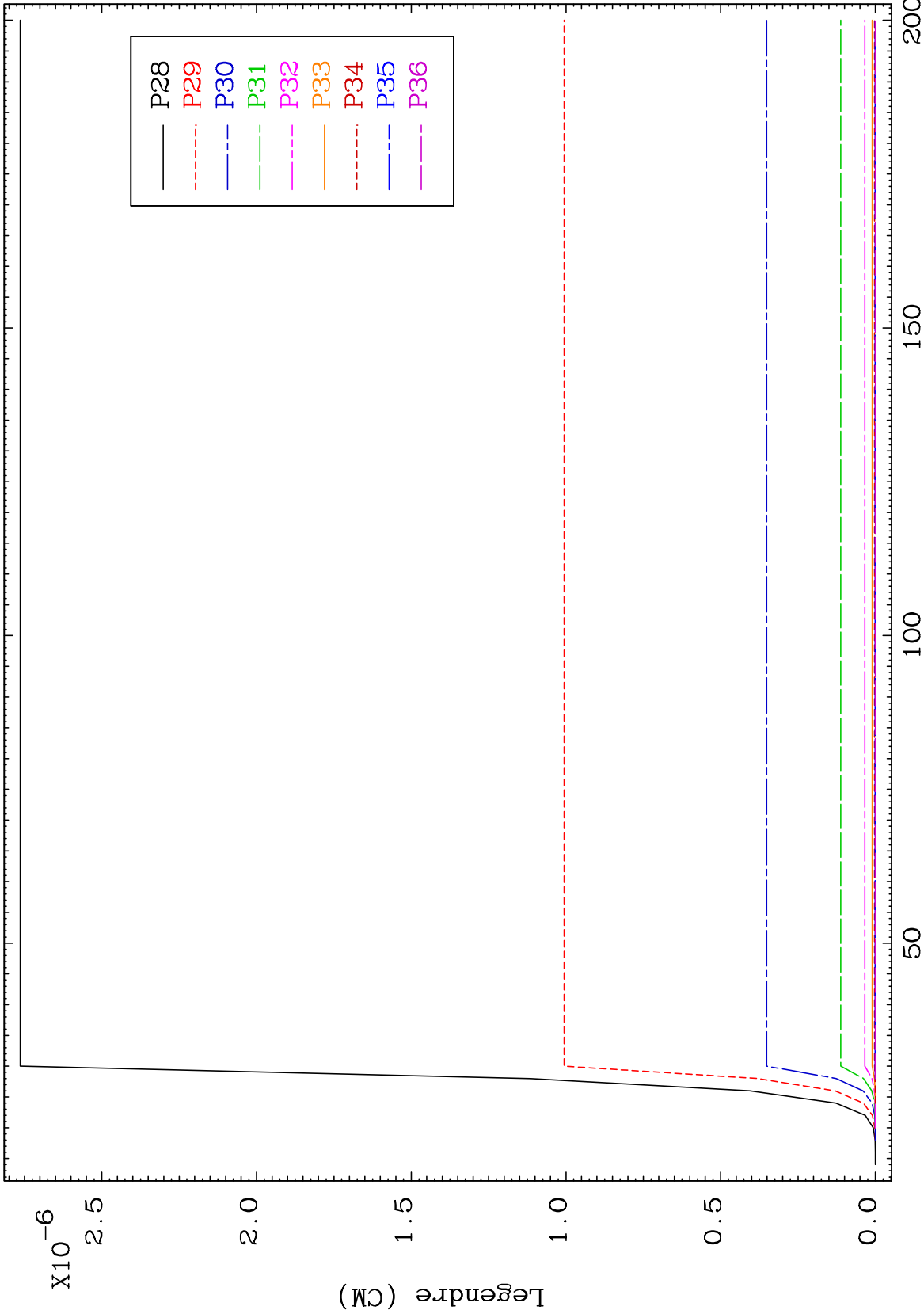
66

54-Xe-139

MAT 5470

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

54-Xe-139



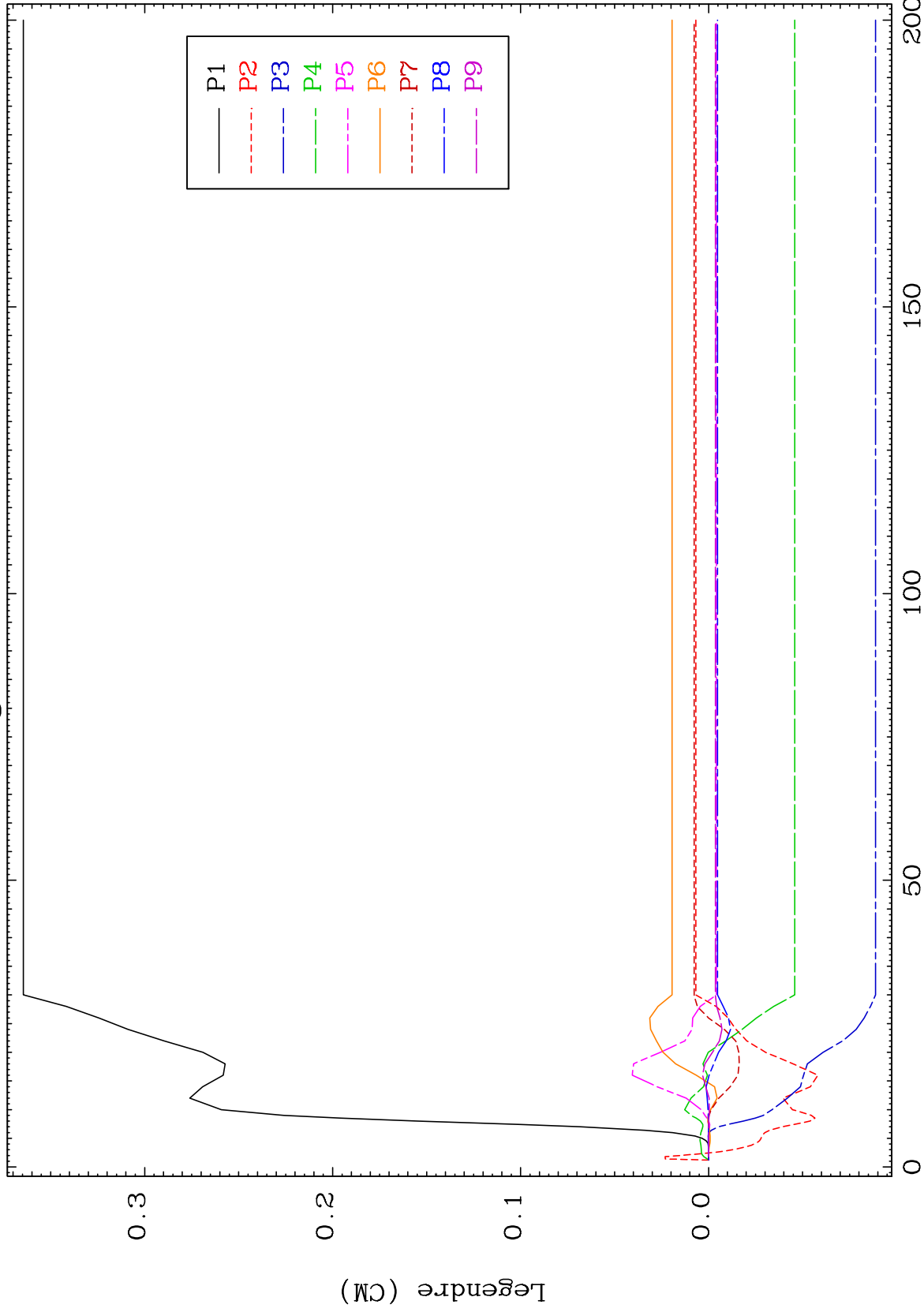
67

54-Xe-139

MAT 5470

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

54-Xe-139



68

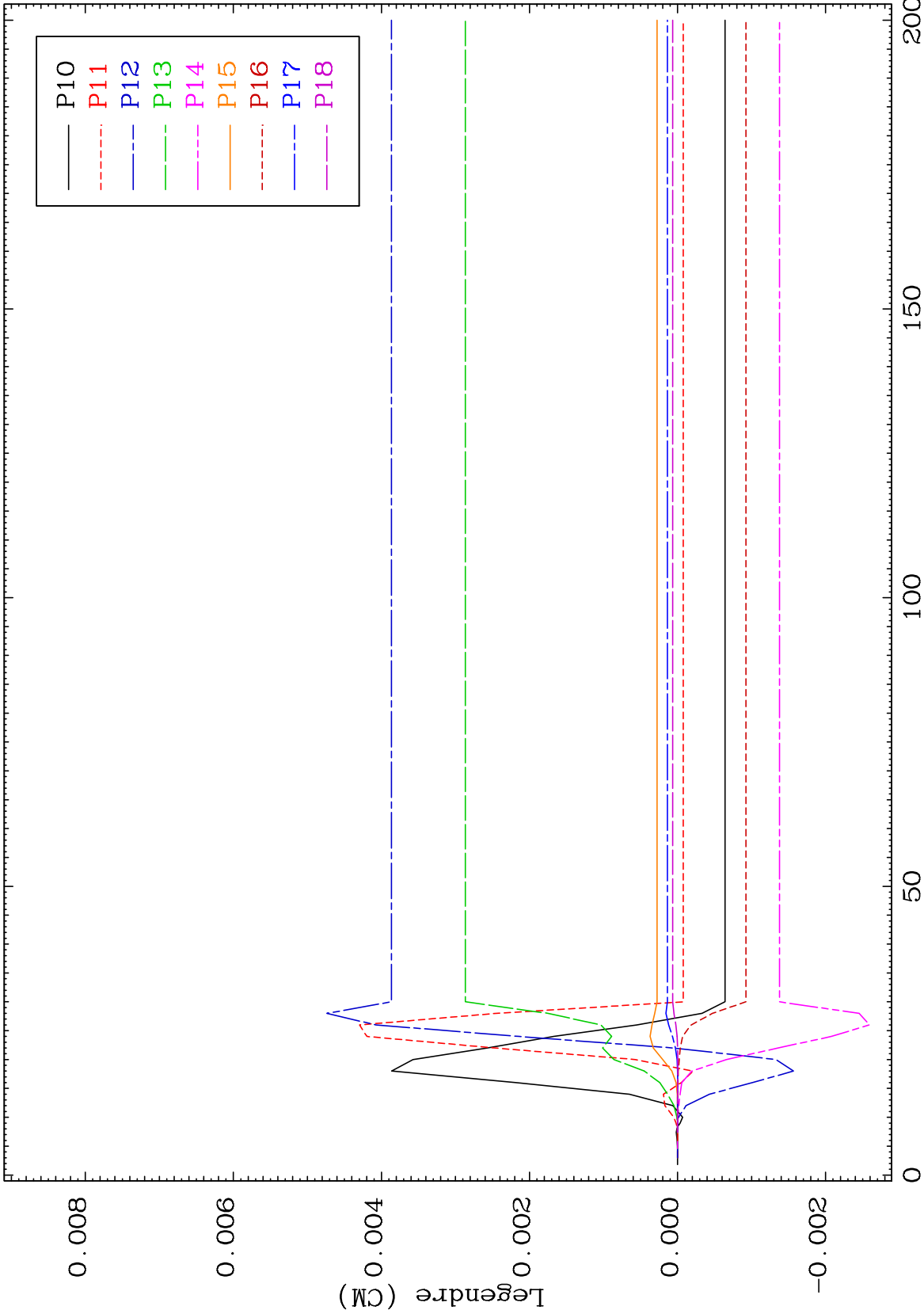
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



69

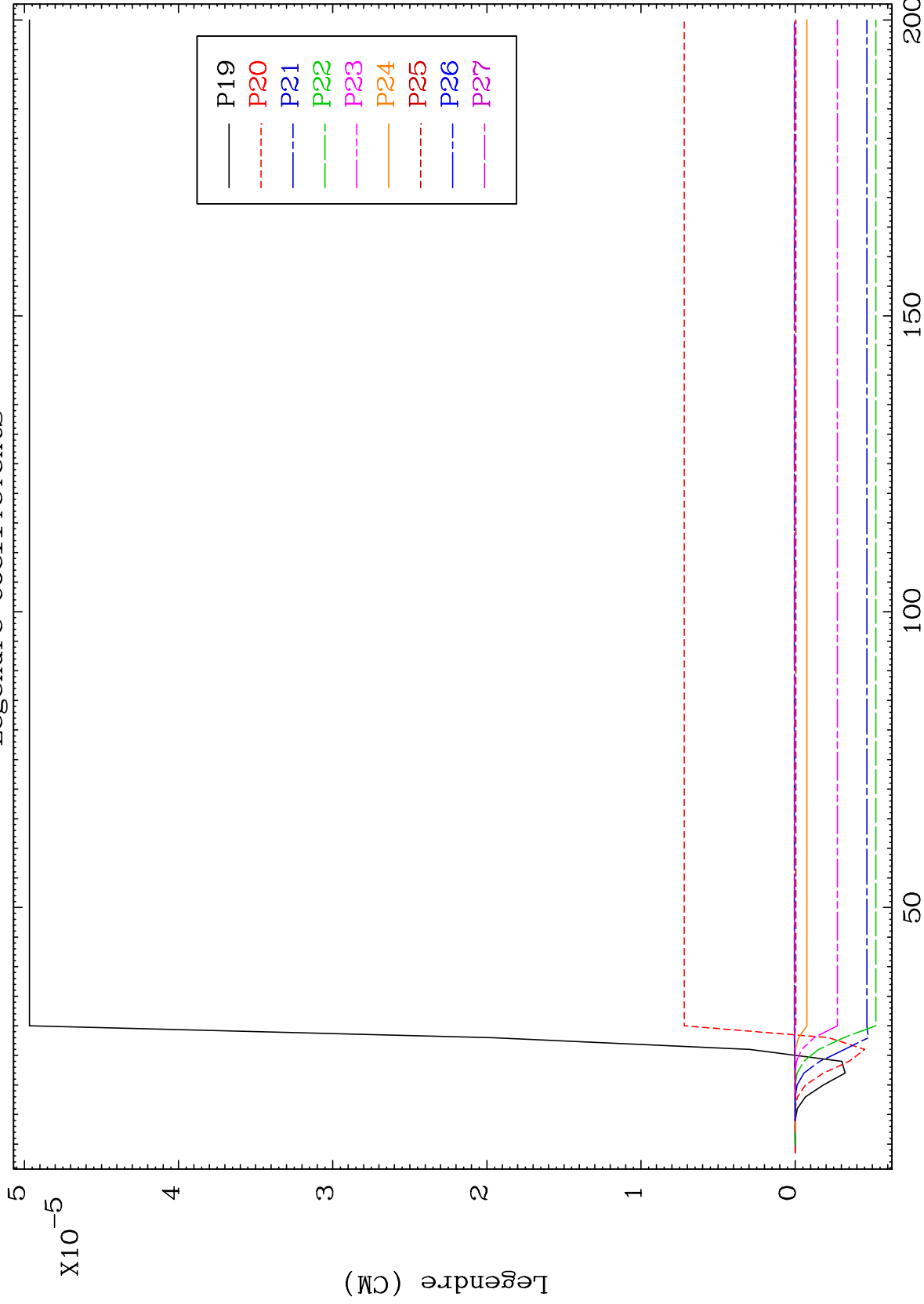
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



70

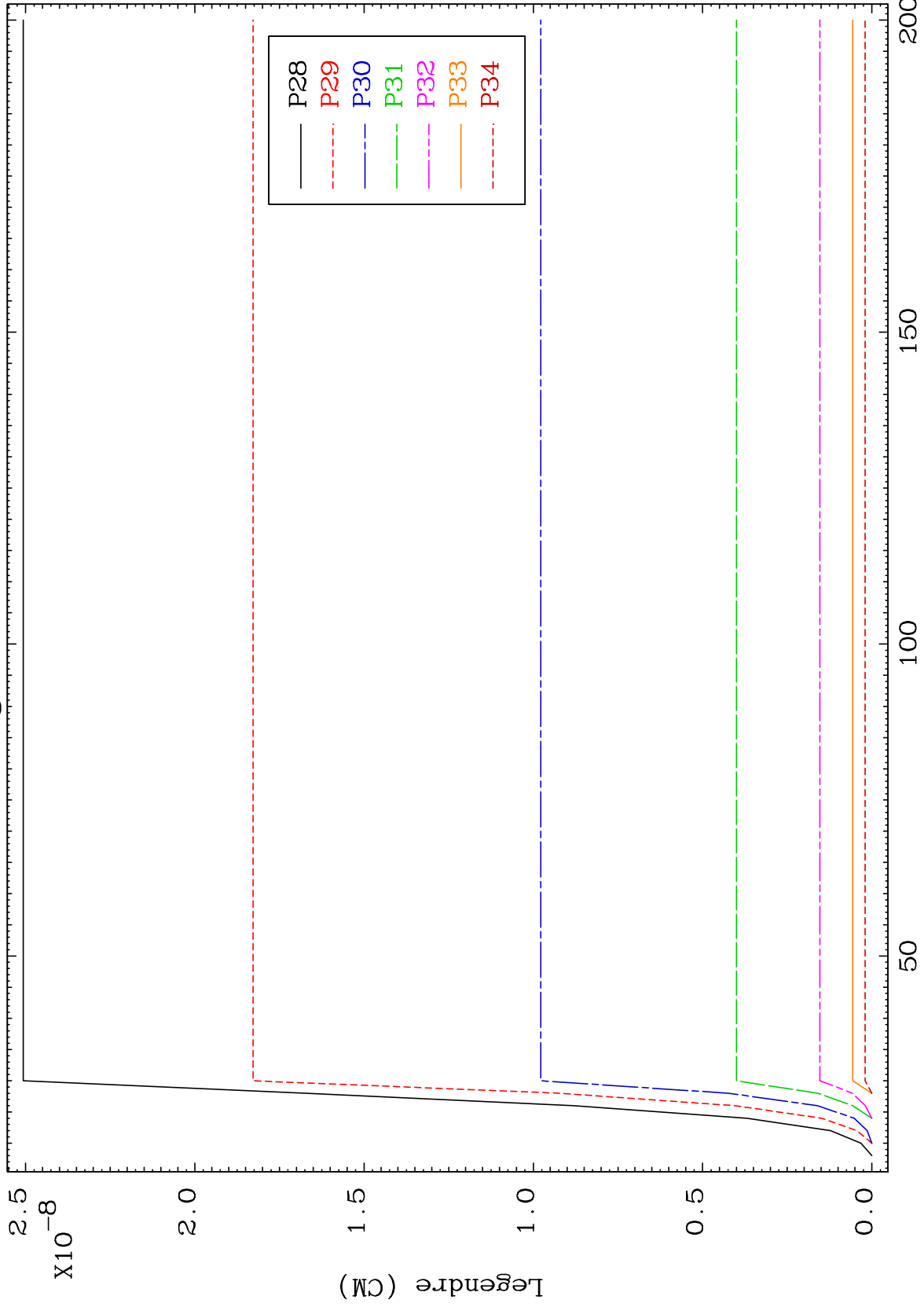
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



71

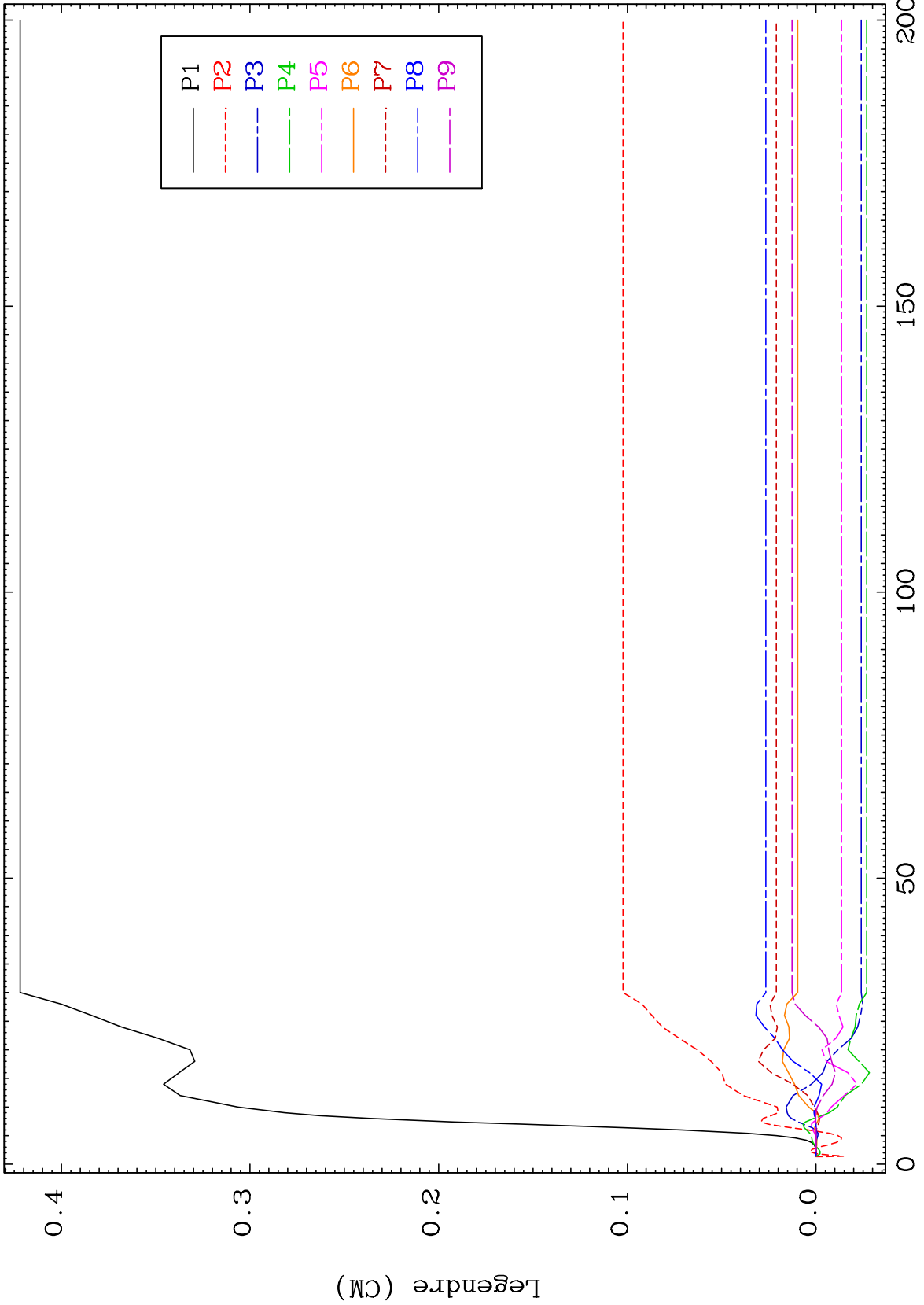
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



72

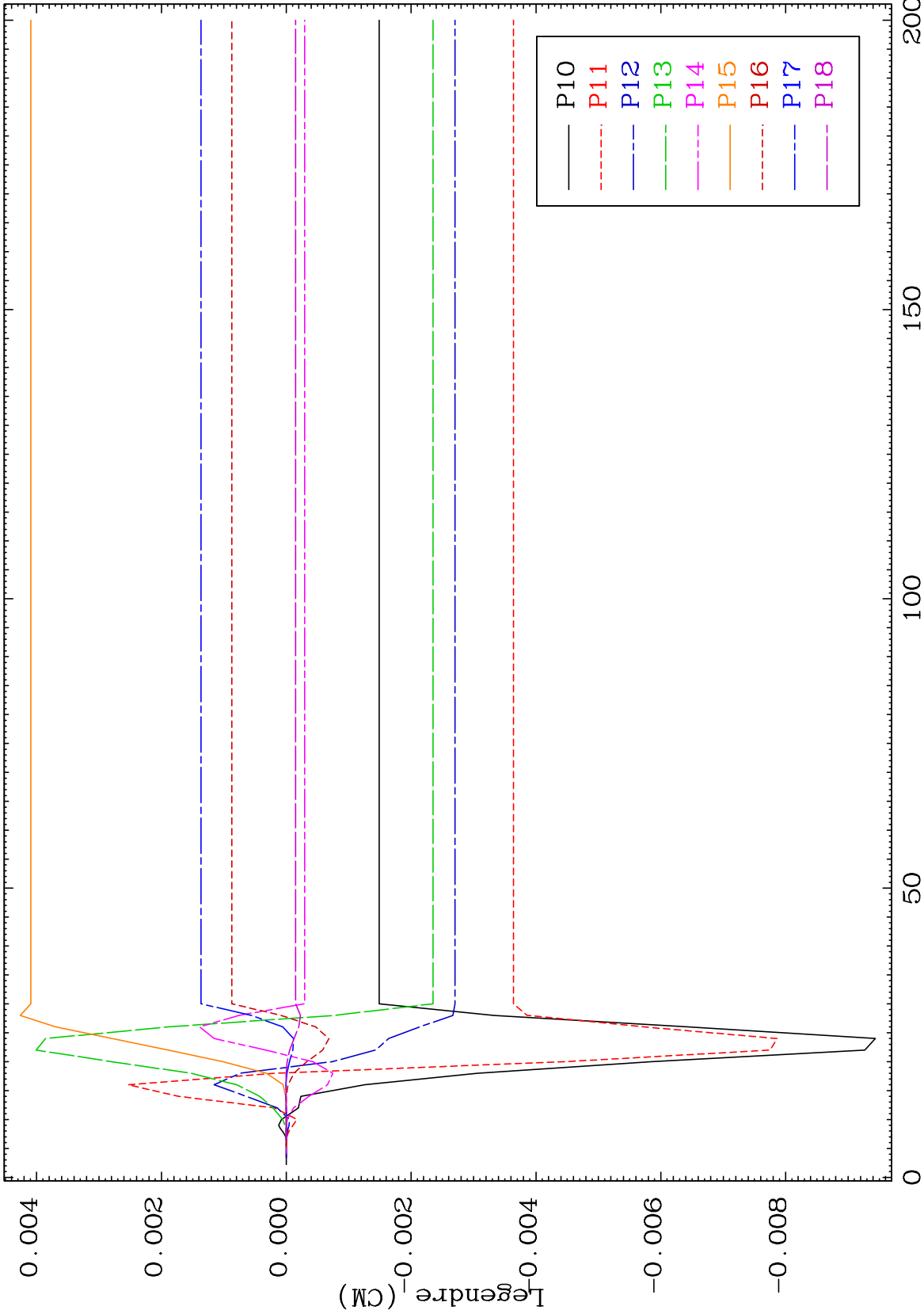
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



73

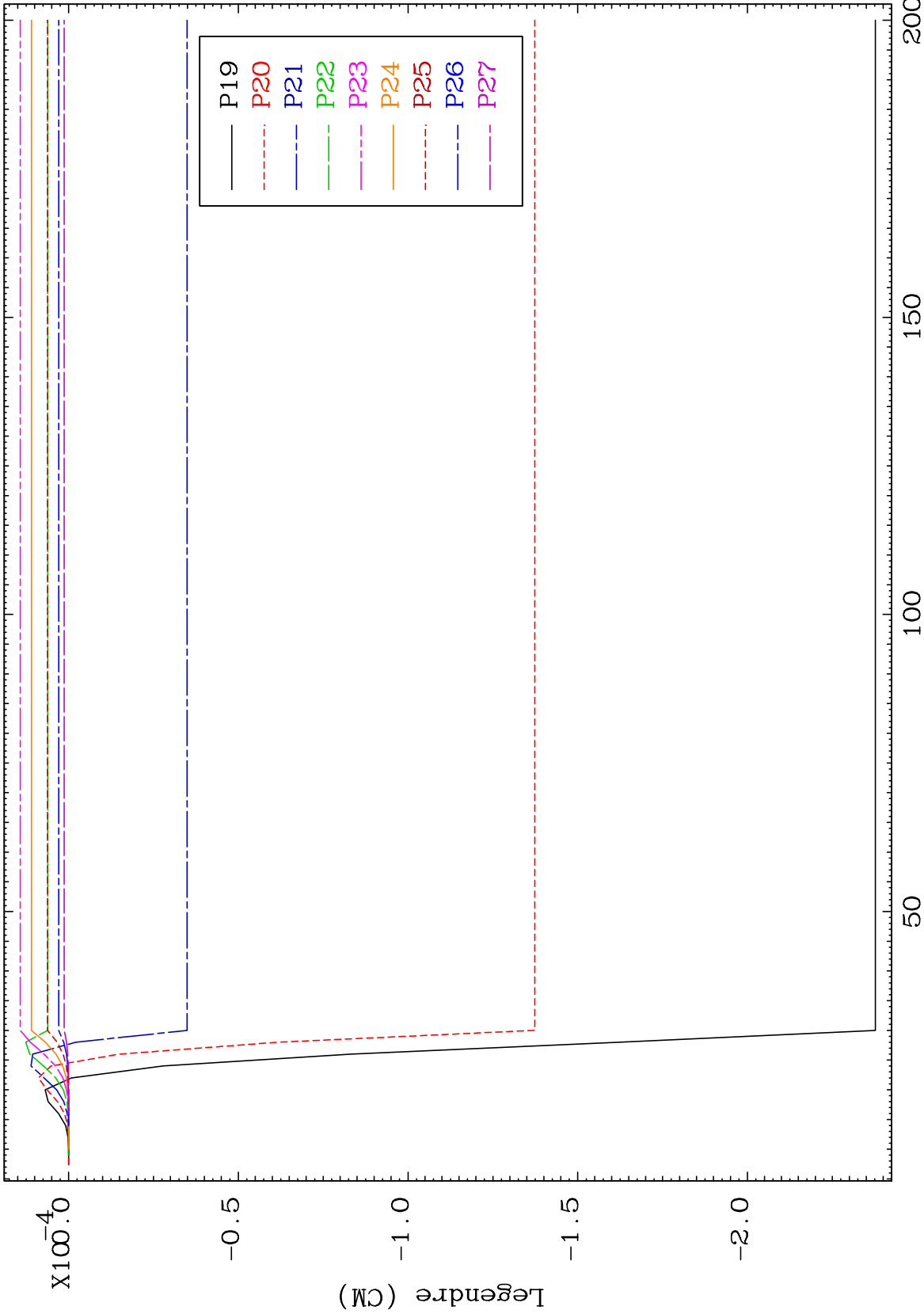
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



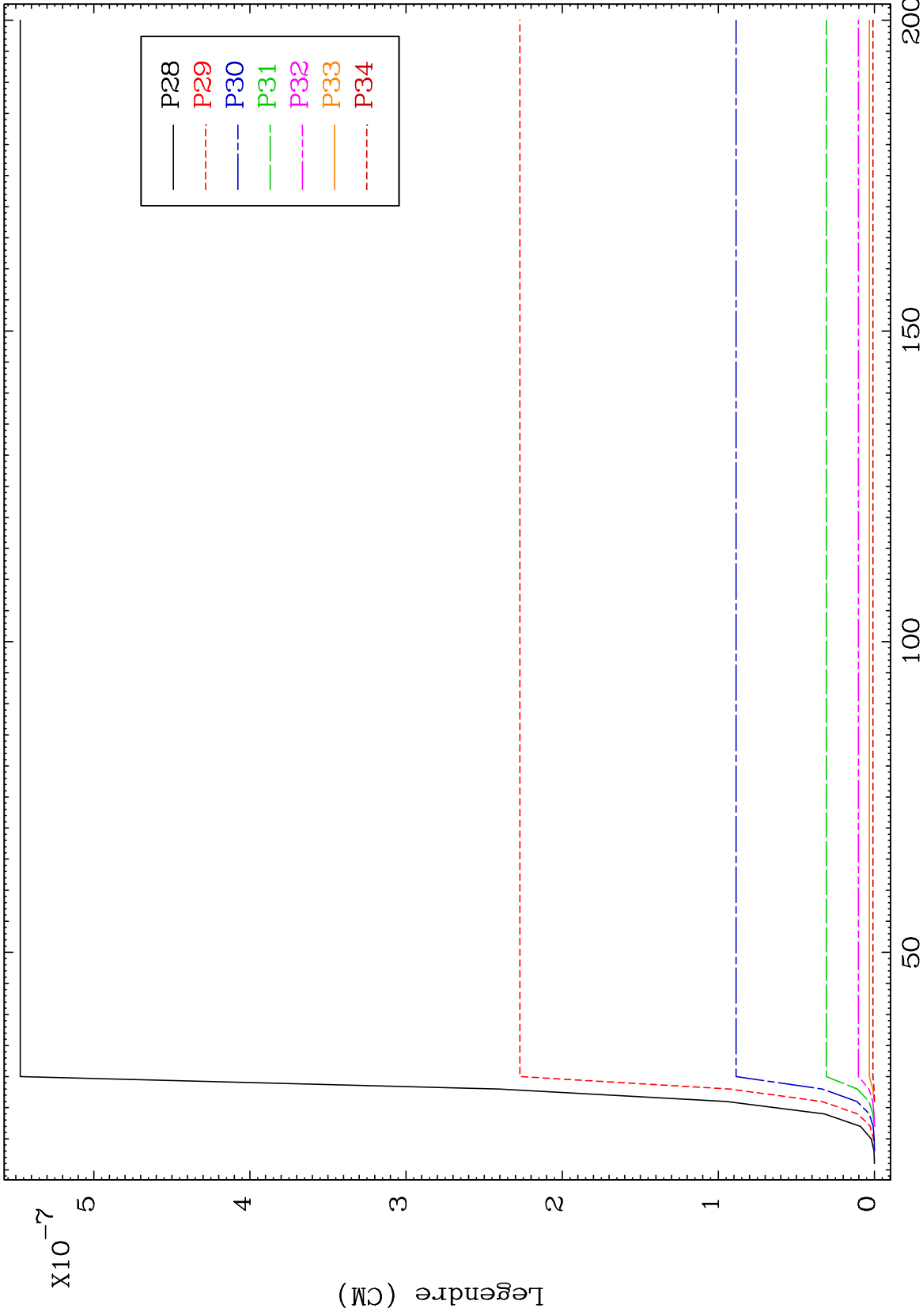
74

54-Xe-139

MAT 5470

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

54-Xe-139



75

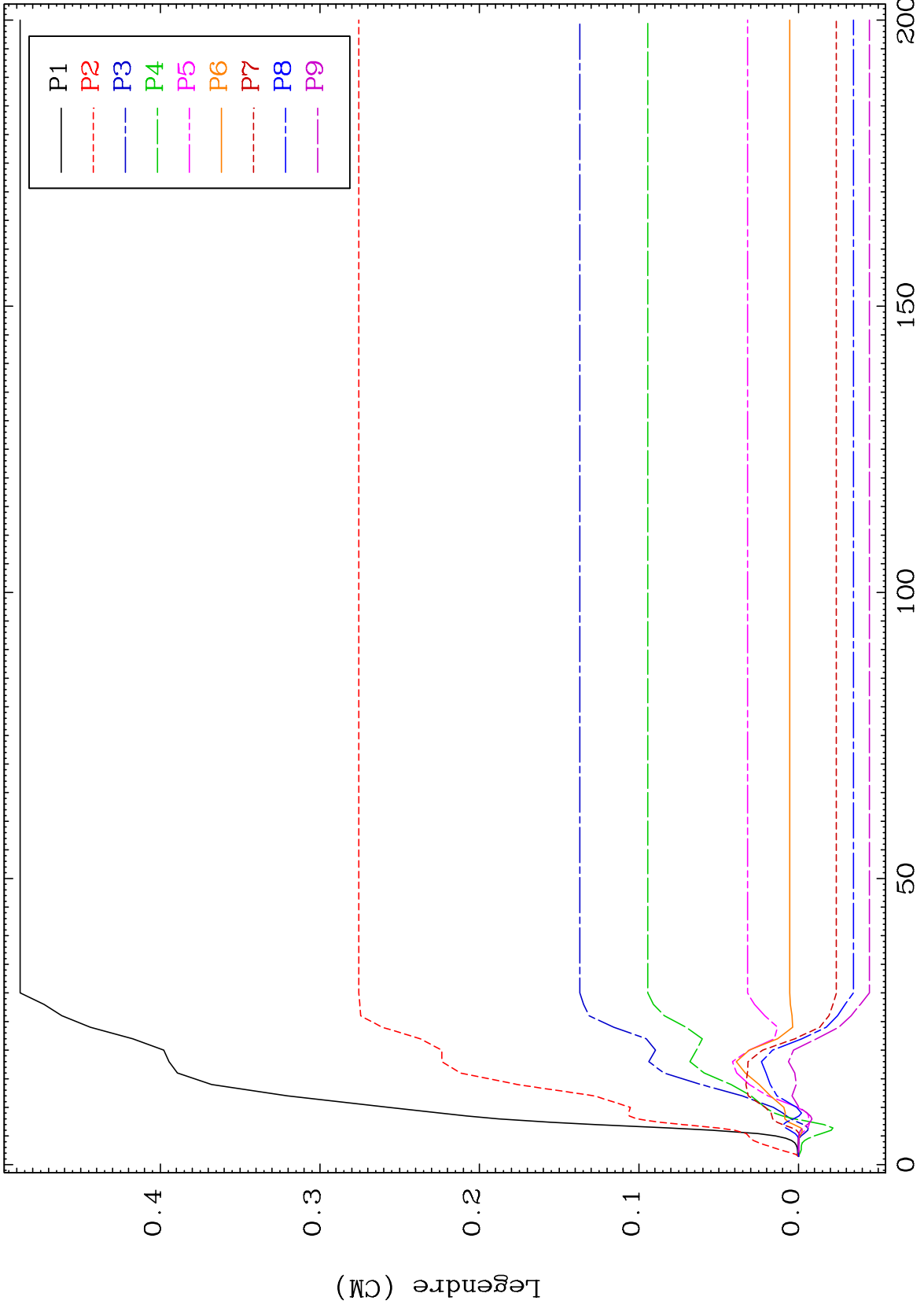
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



76

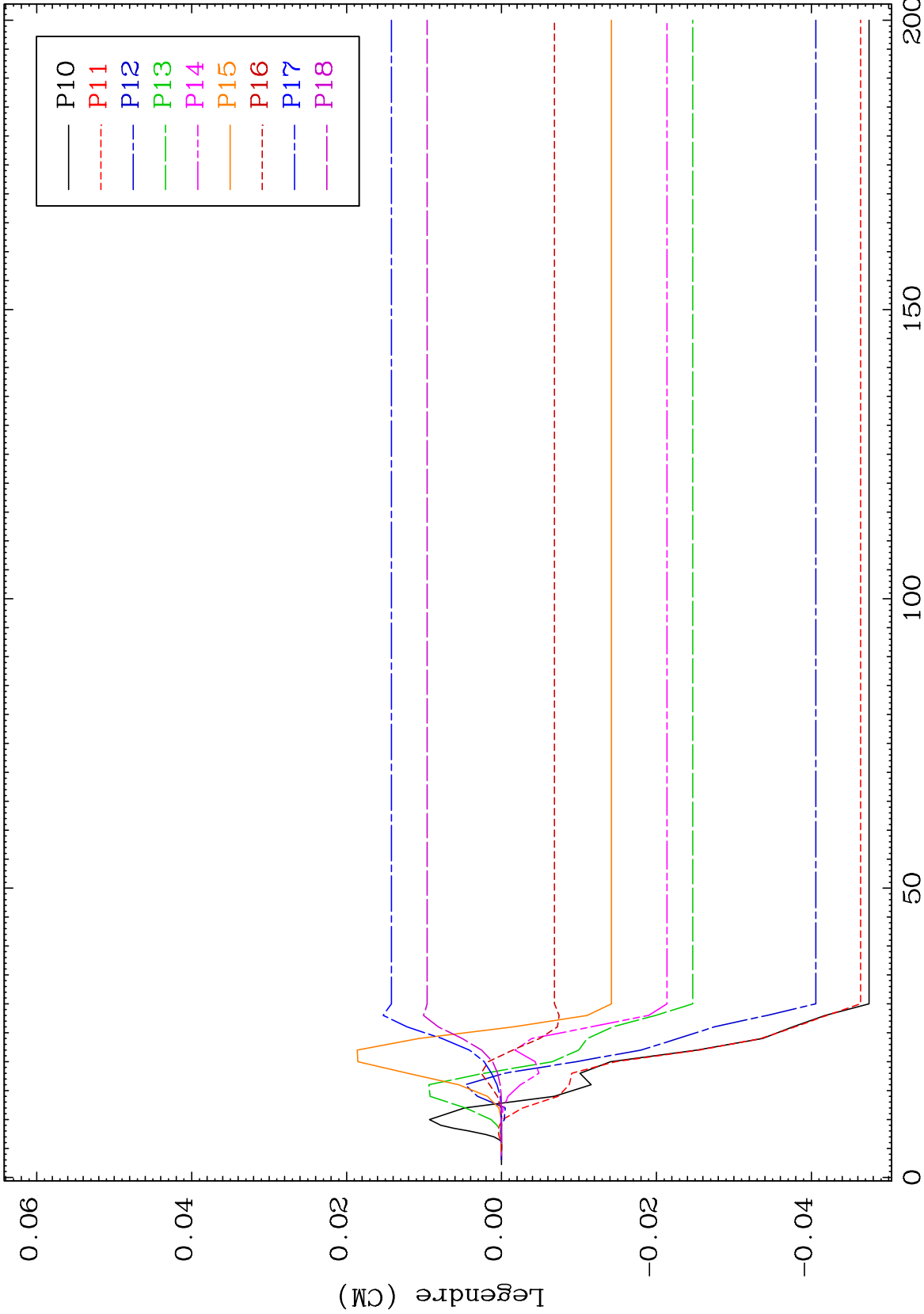
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



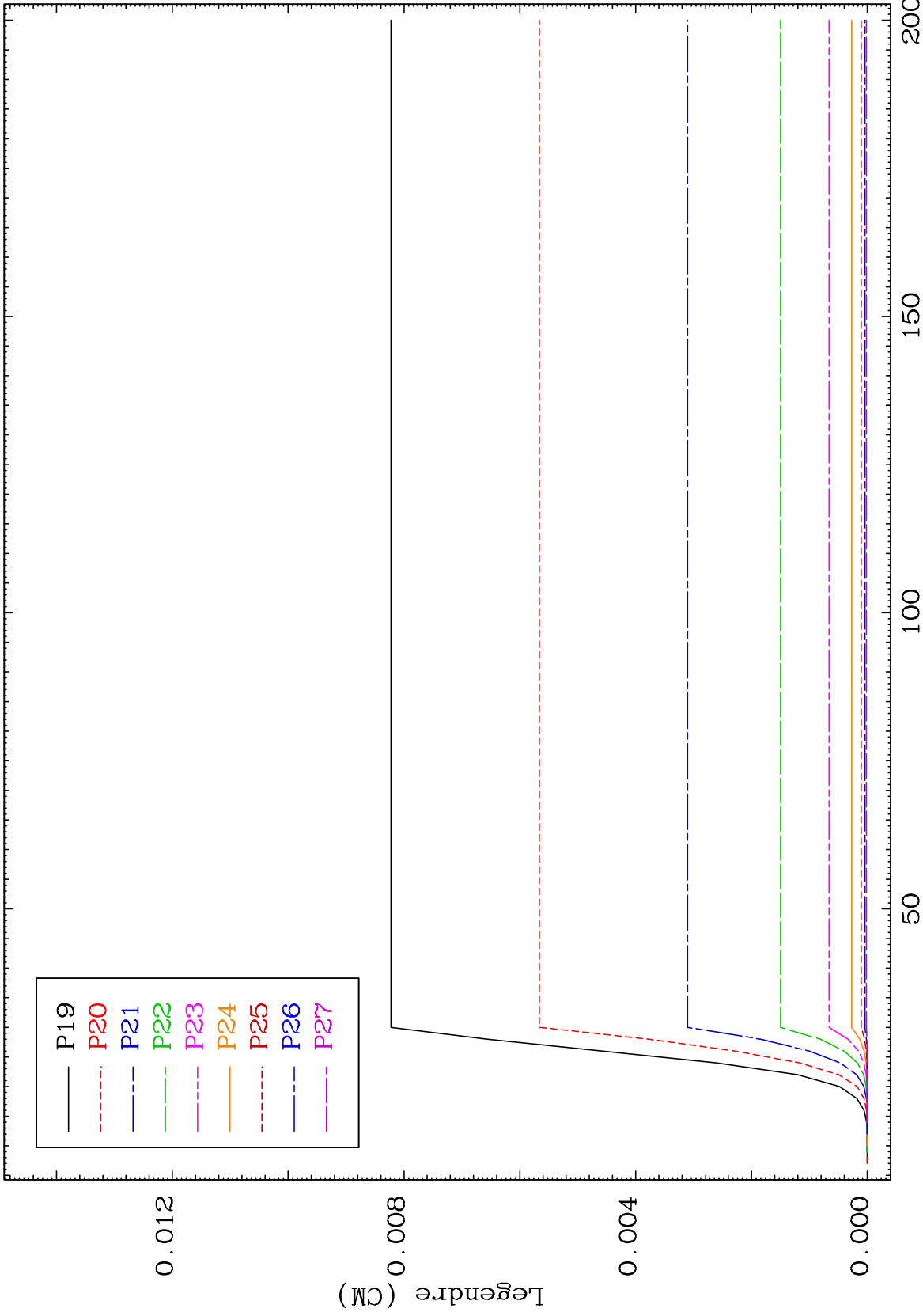
77

54-Xe-139

MAT 5470

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

54-Xe-139



78

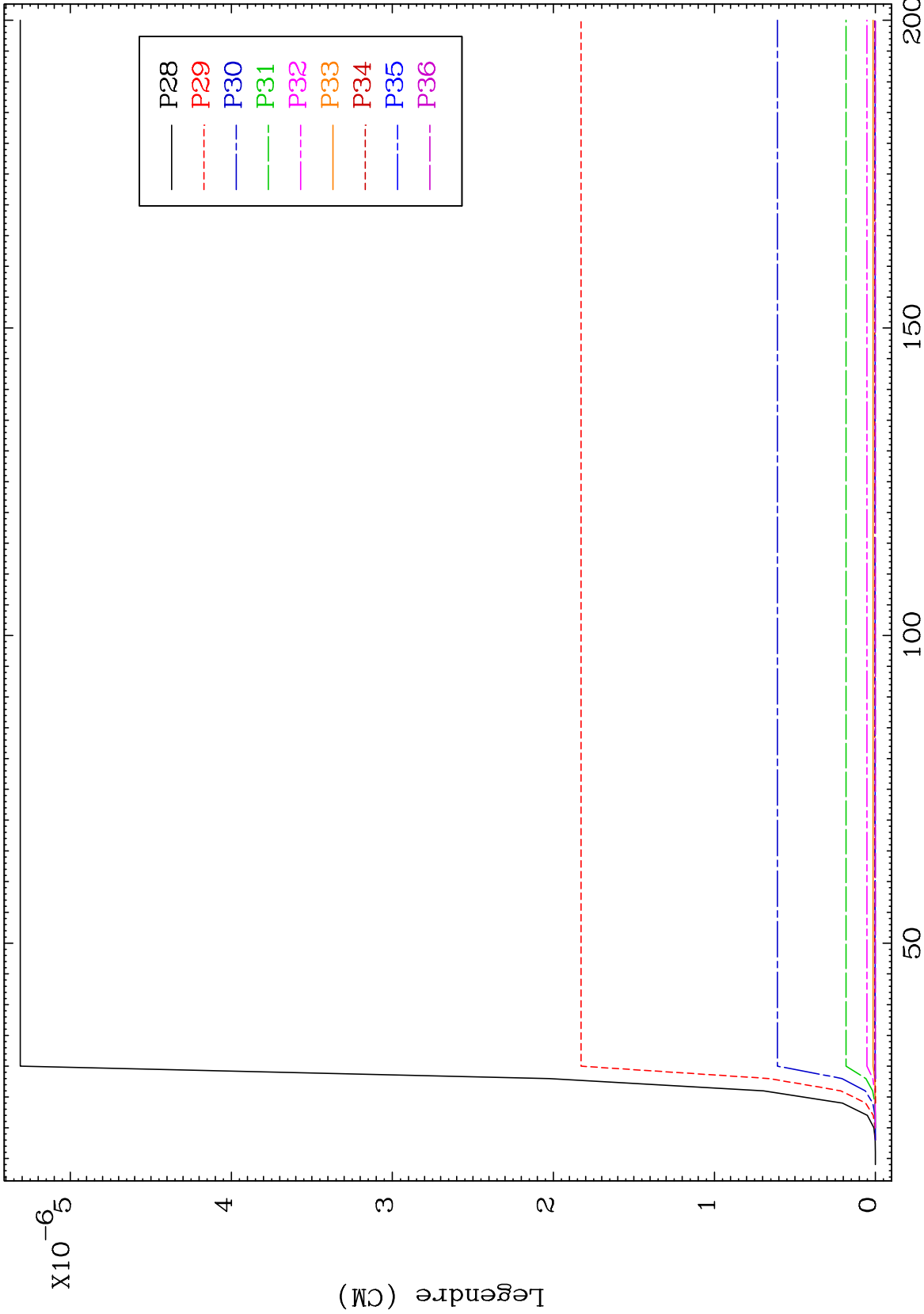
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



79

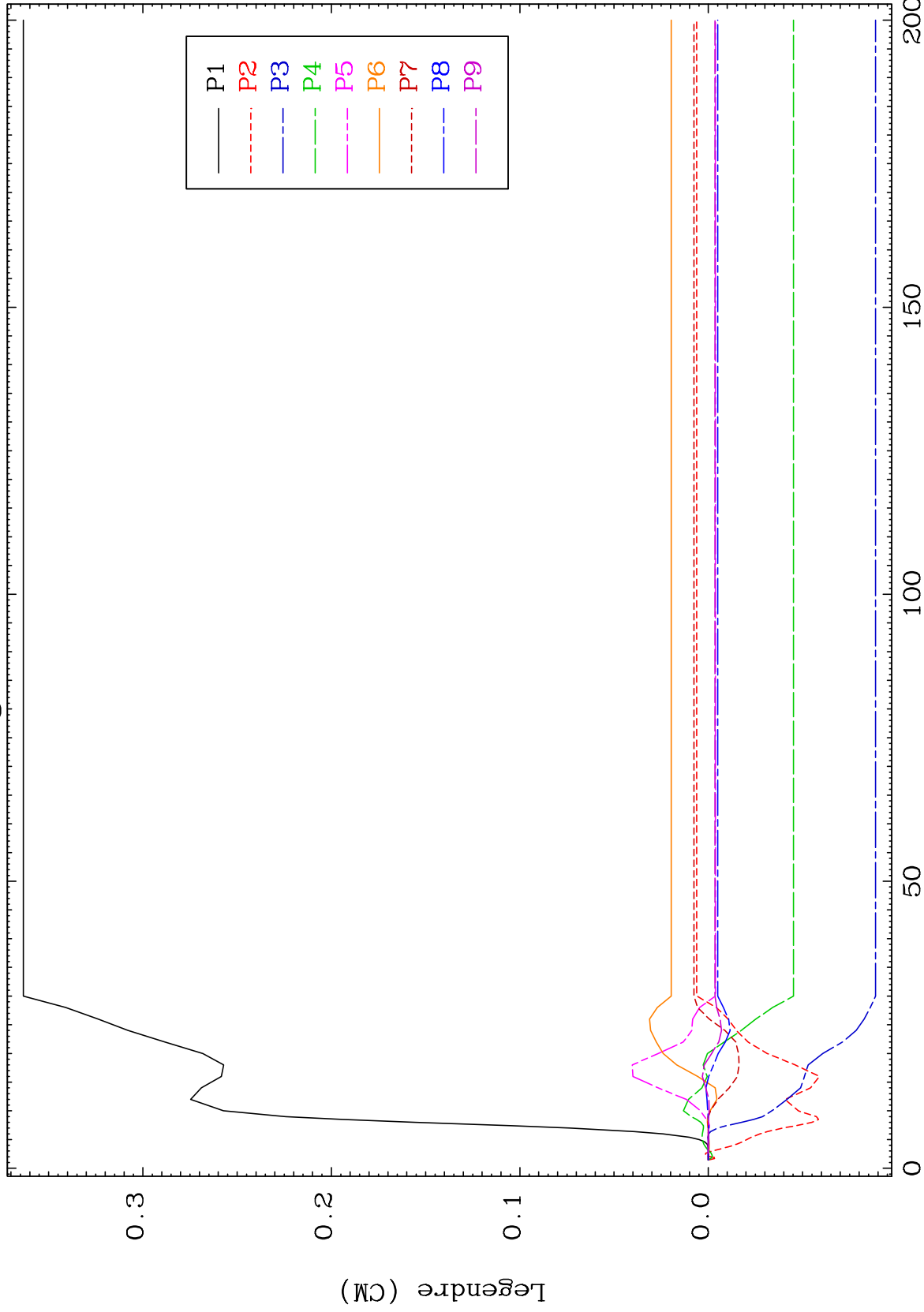
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



80

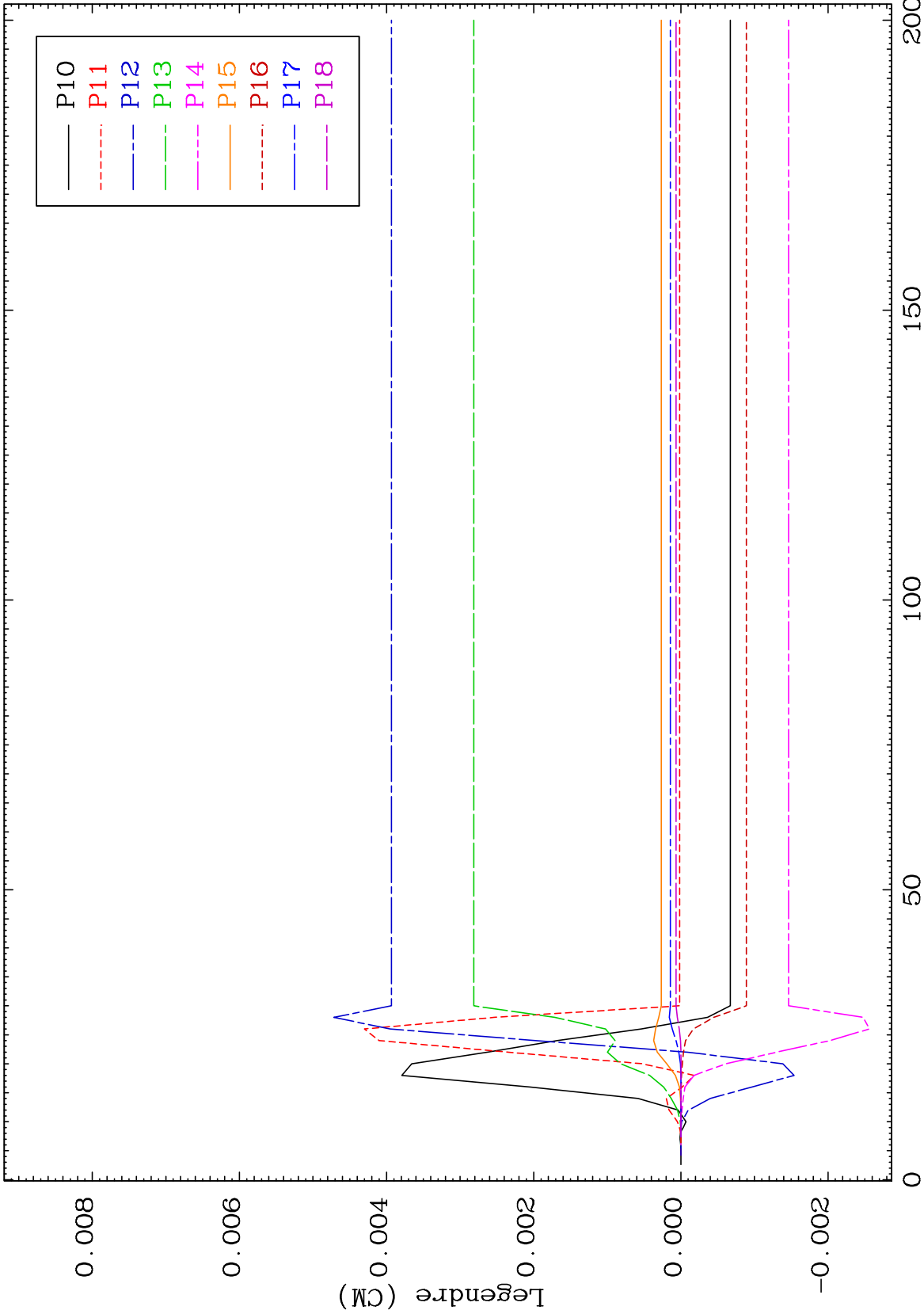
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



81

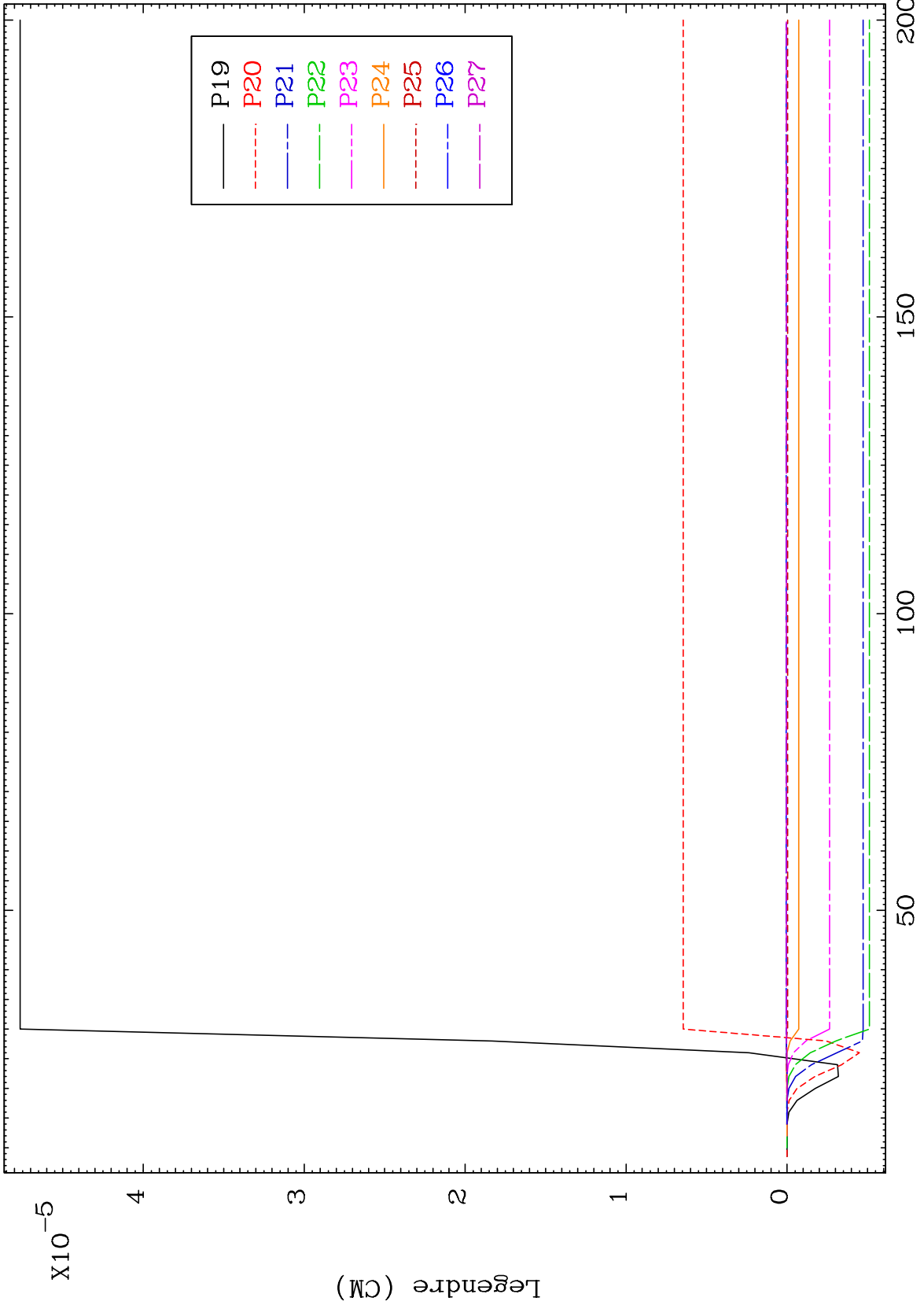
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



82

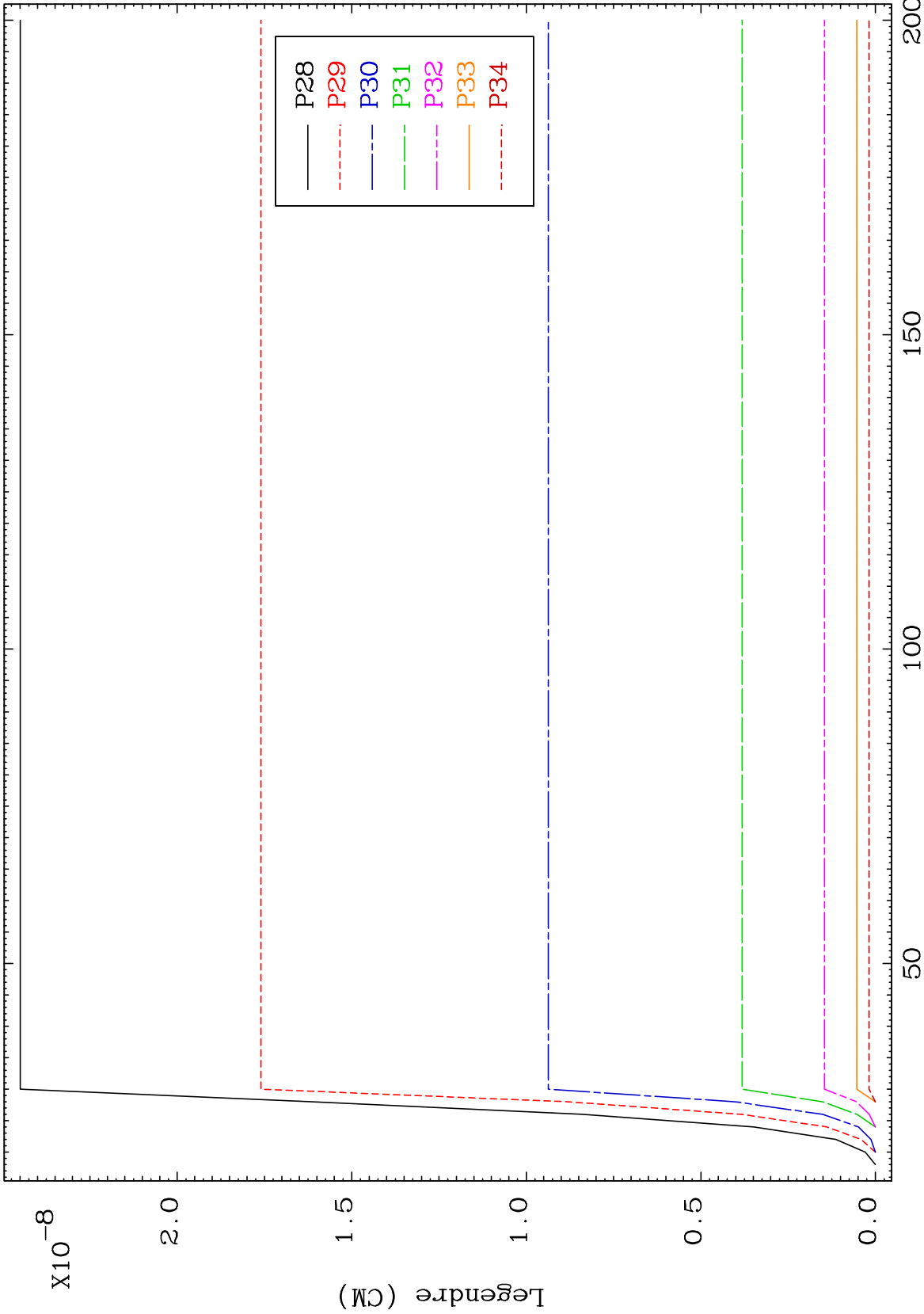
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



83

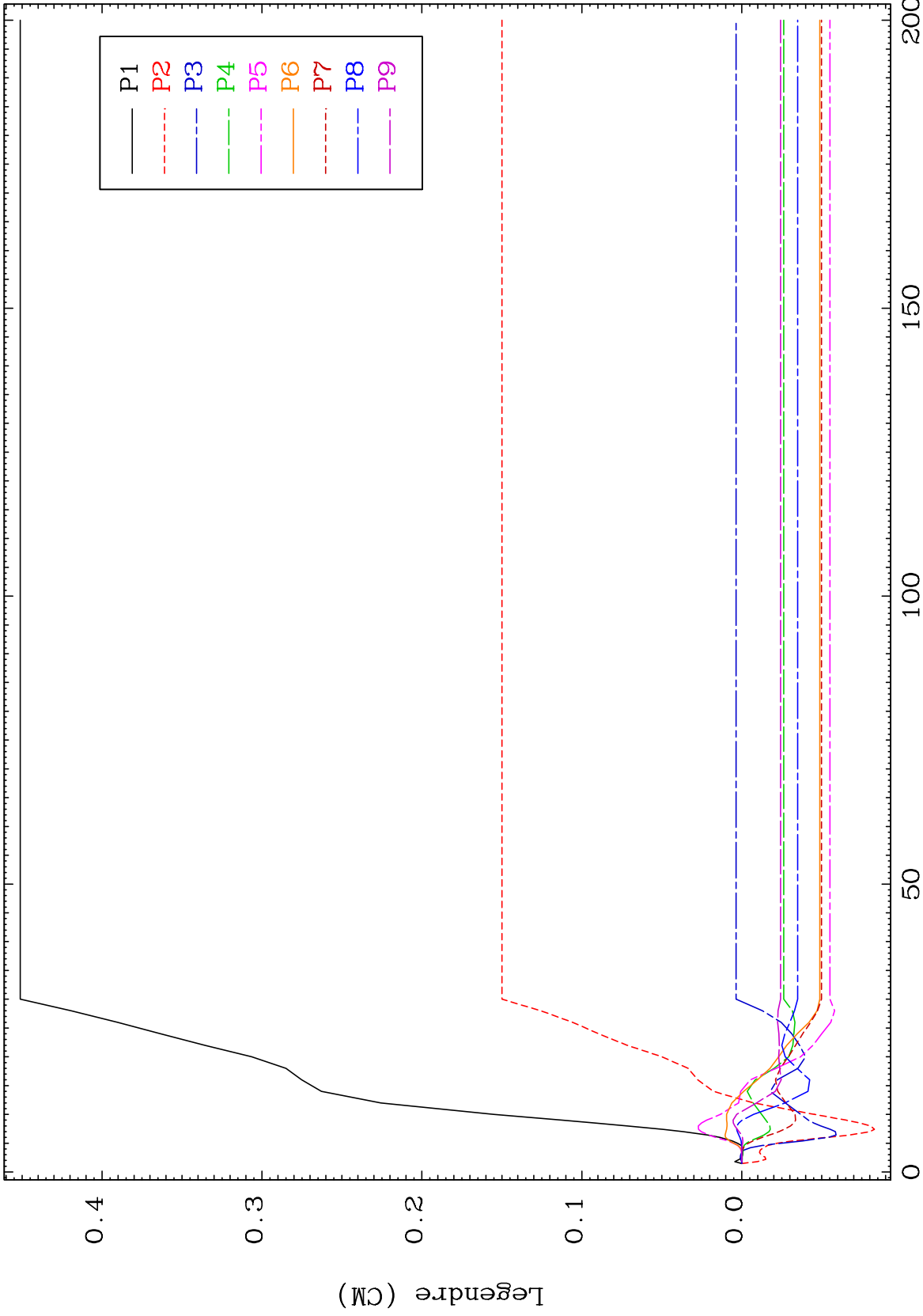
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



84

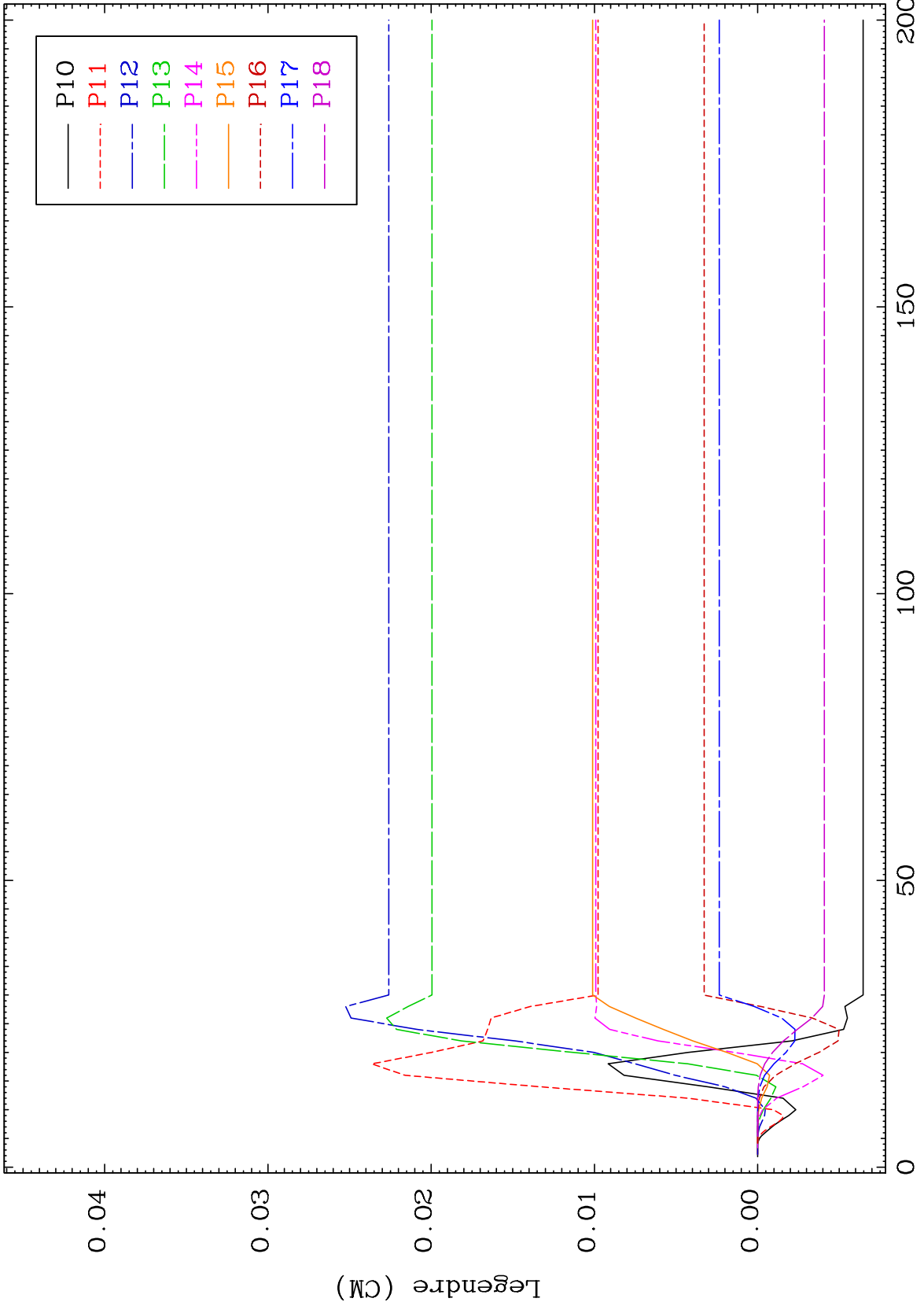
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



85

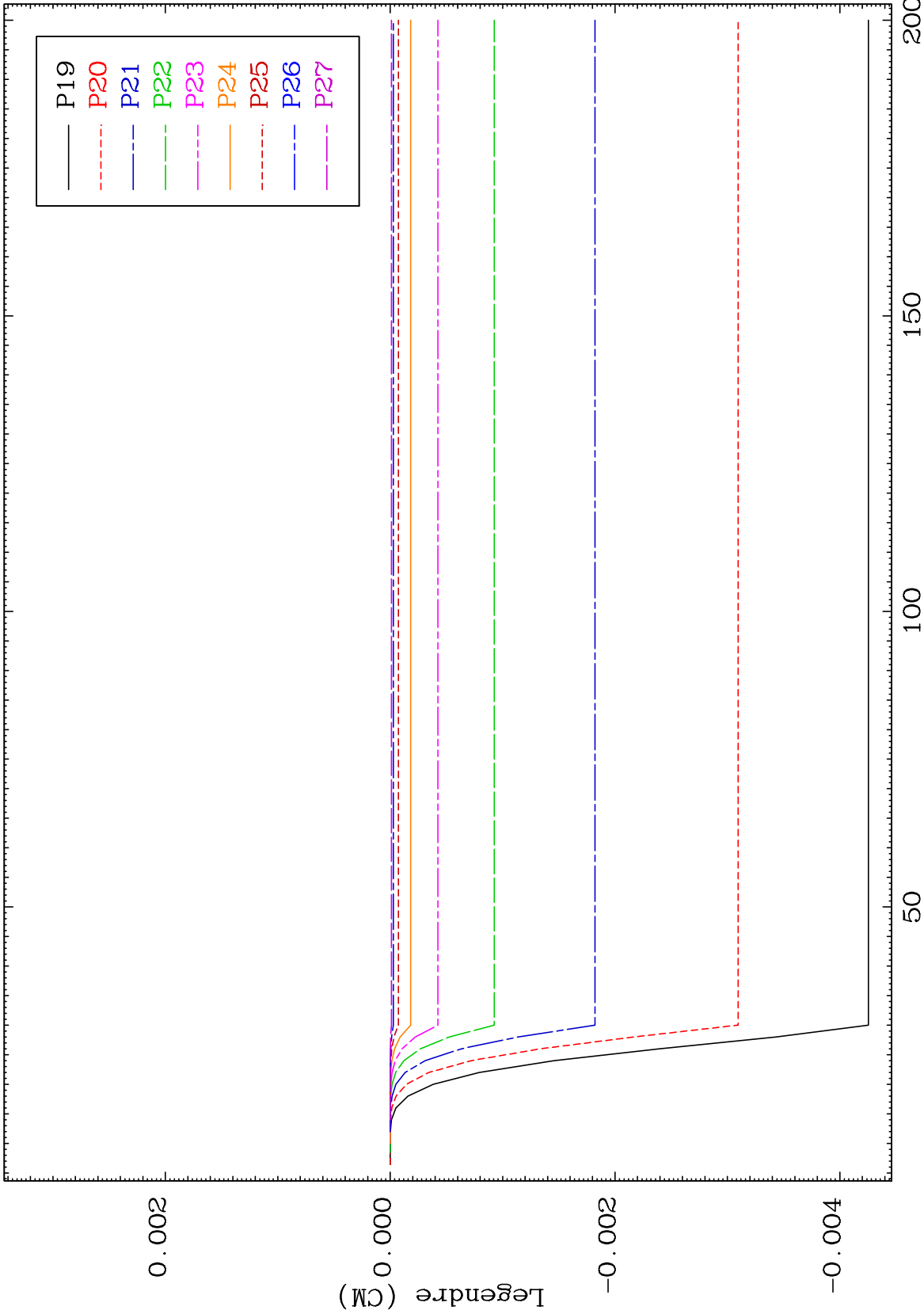
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



86

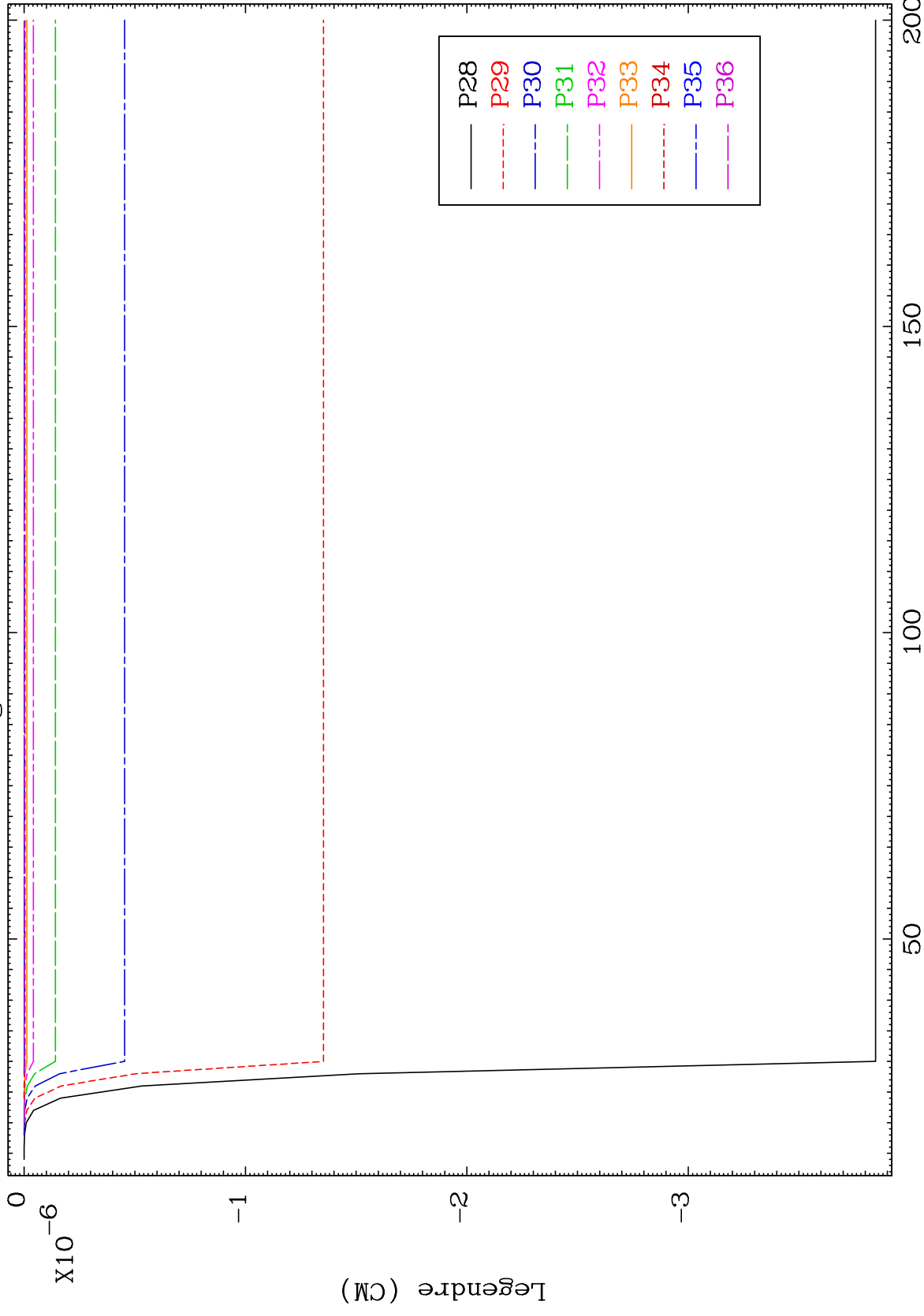
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



54-Xe-139

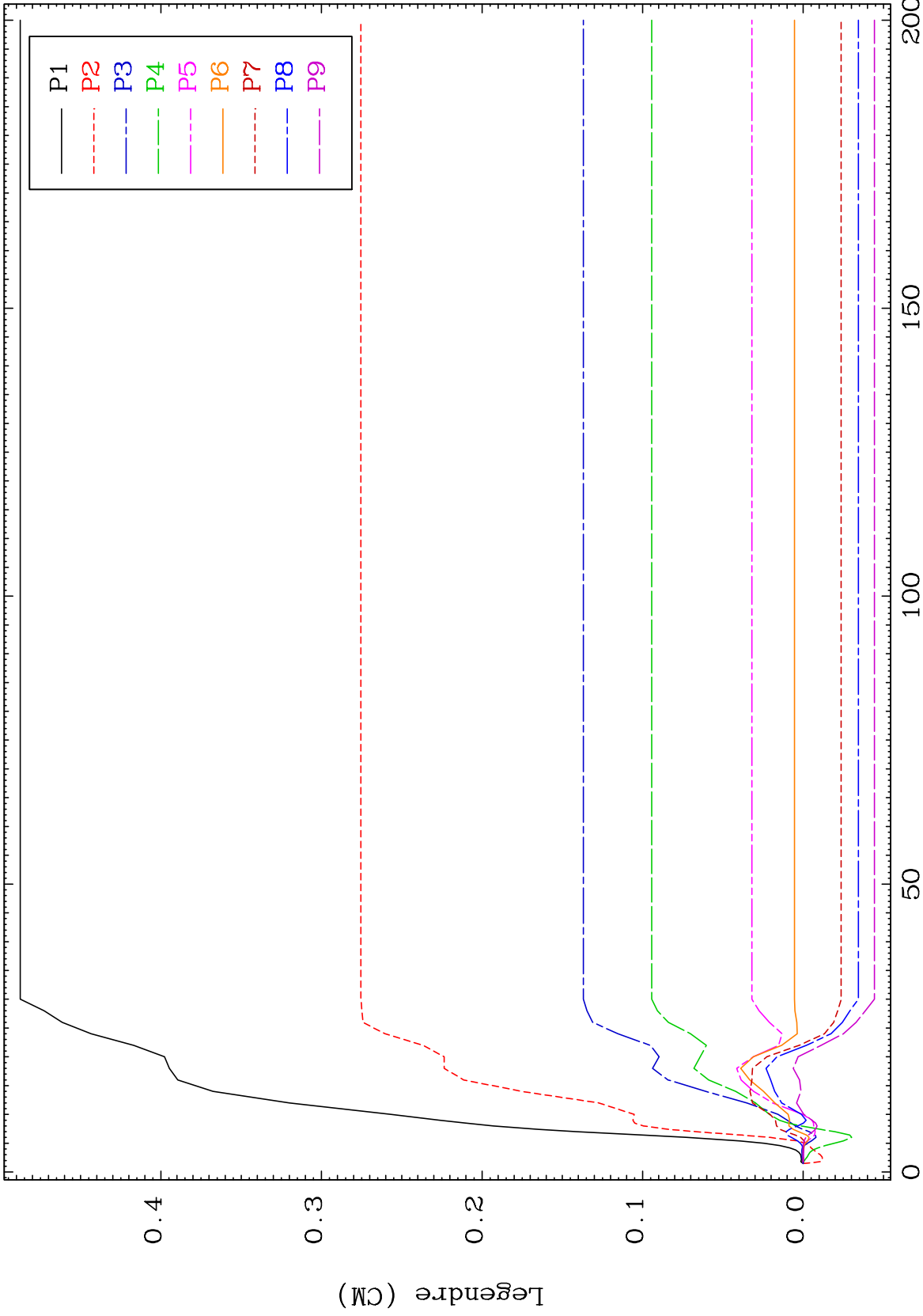
Incident Energy (MeV)

87

MAT 5470

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

54-Xe-139



88

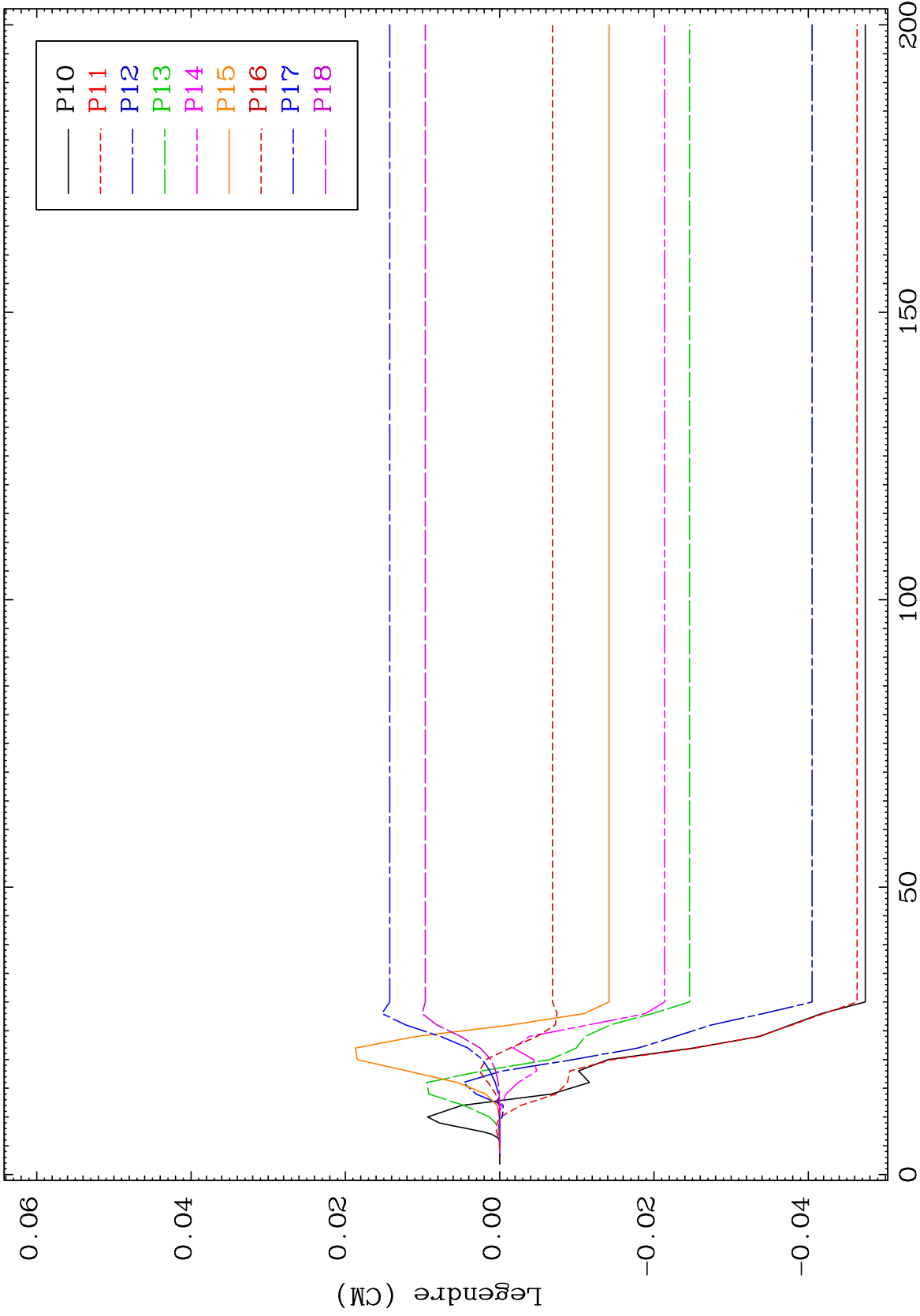
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



89

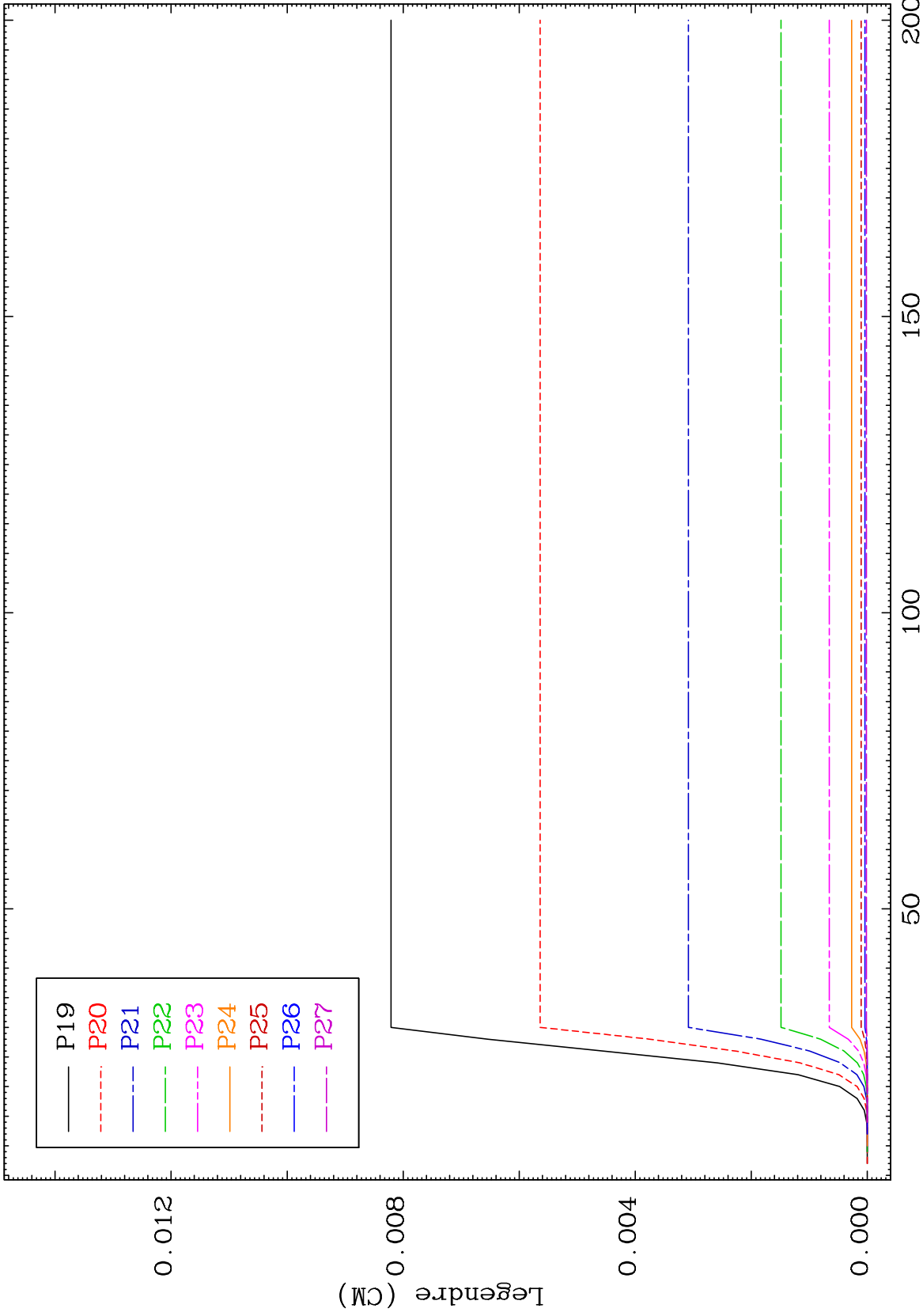
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



90

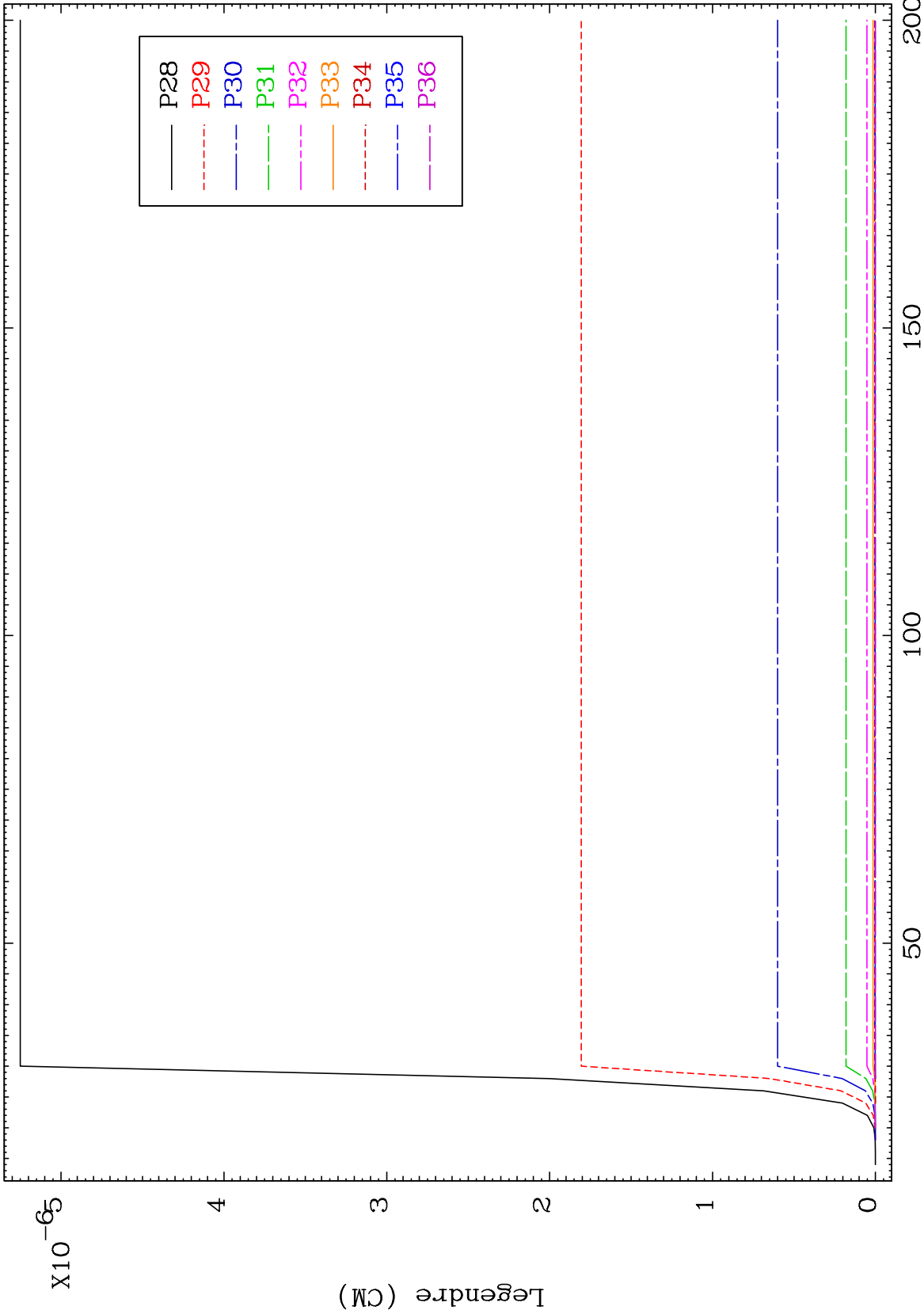
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



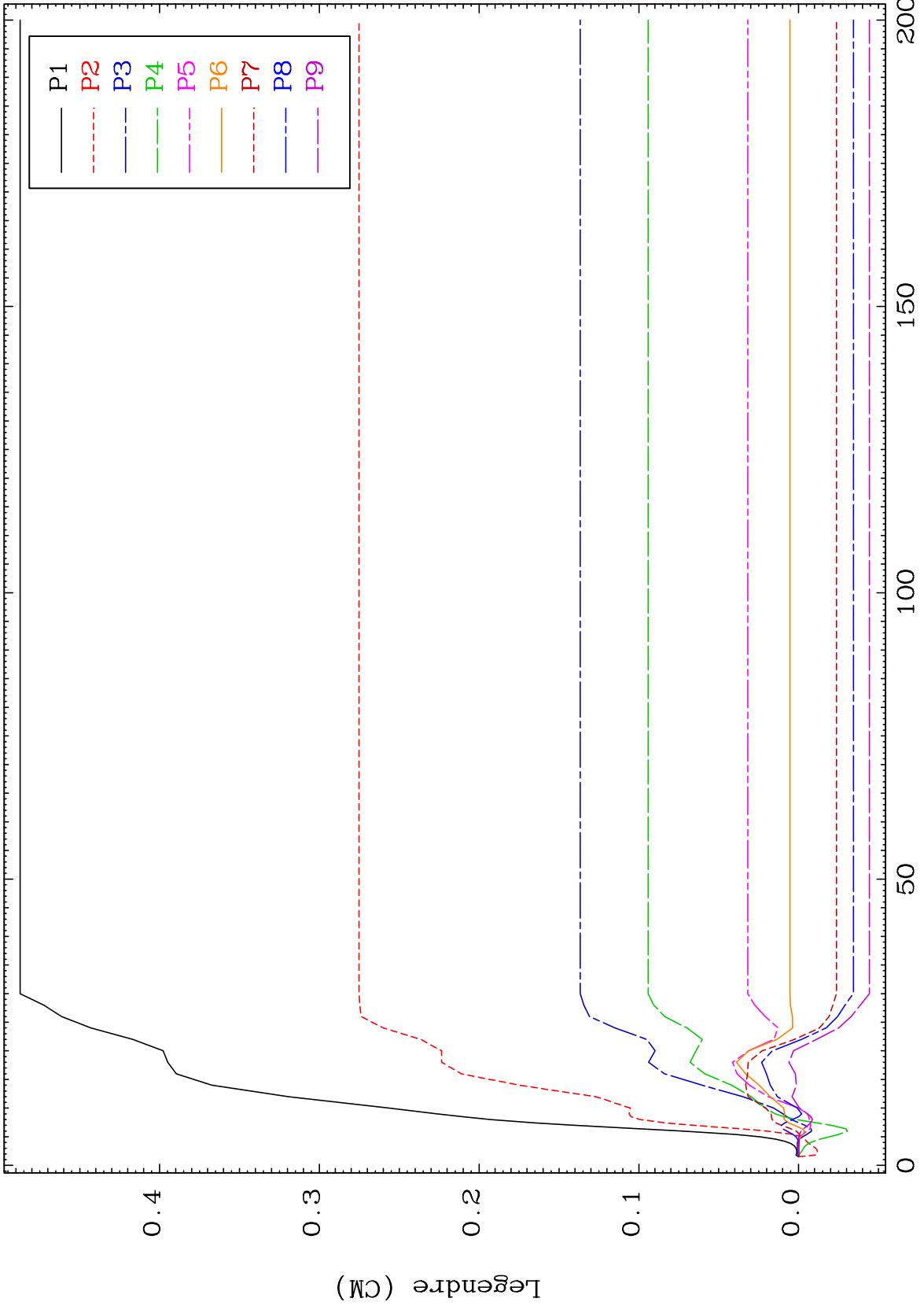
91

54-Xe-139

MAT 5470

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

54-Xe-139



92

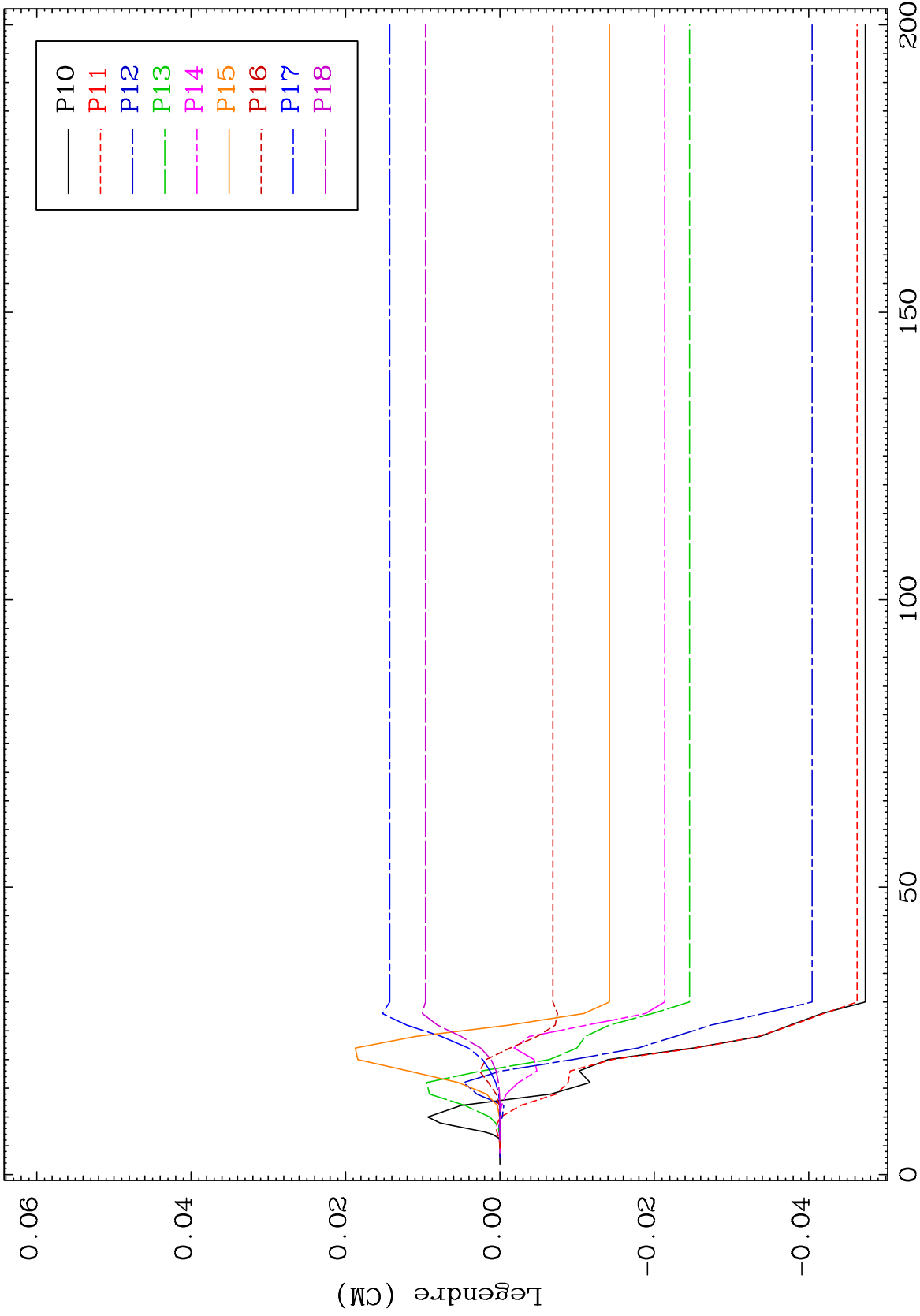
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



93

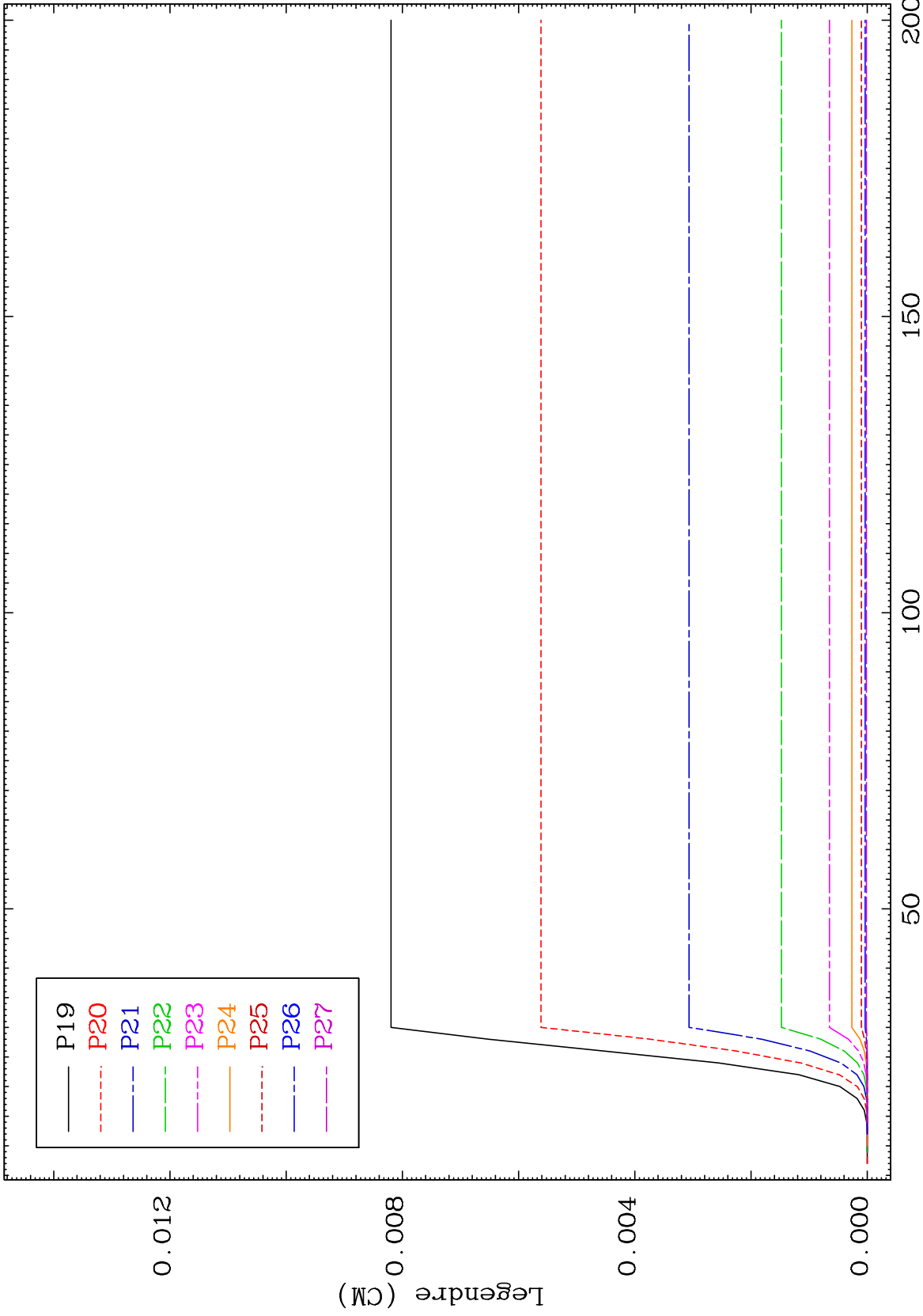
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



94

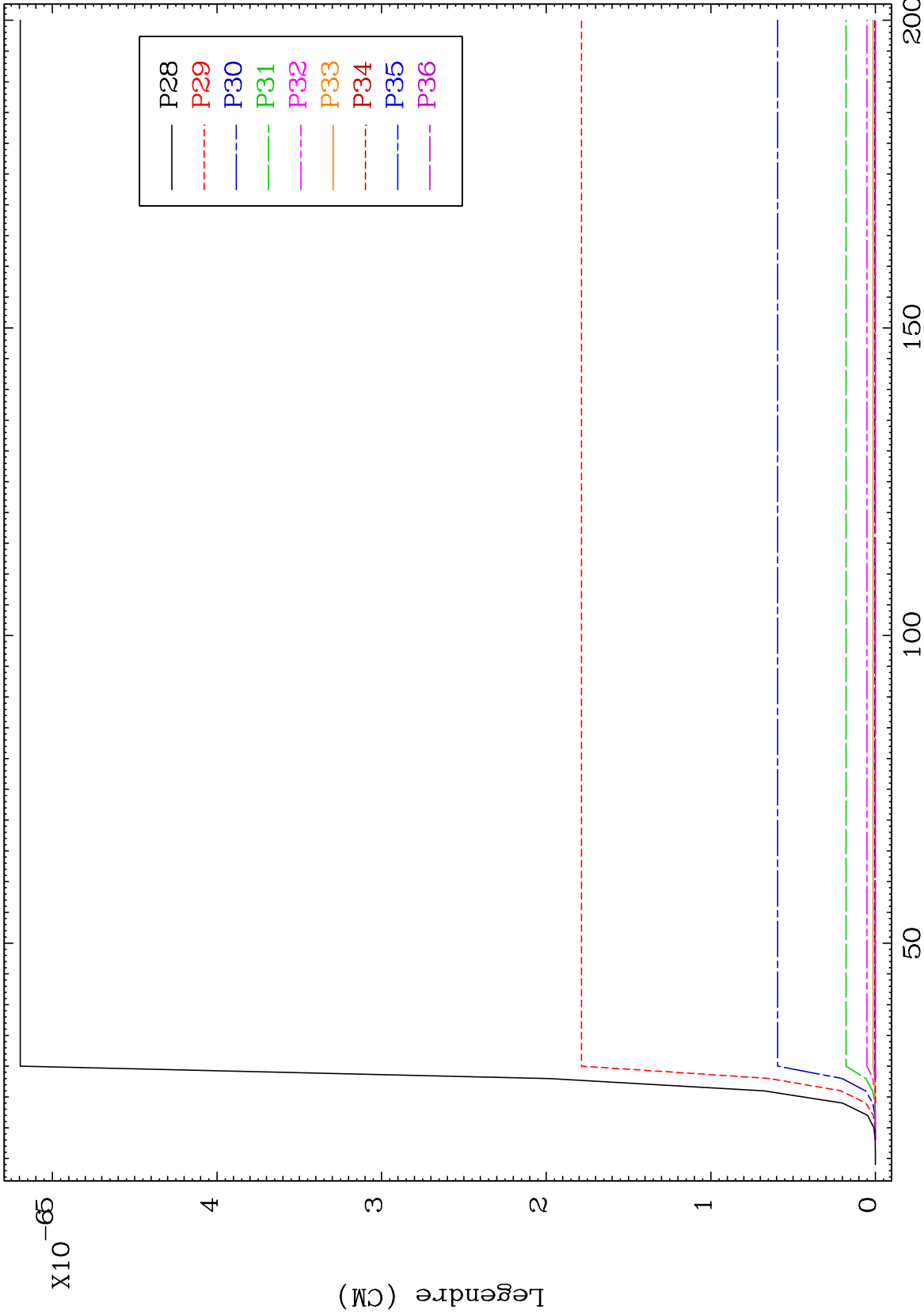
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



95

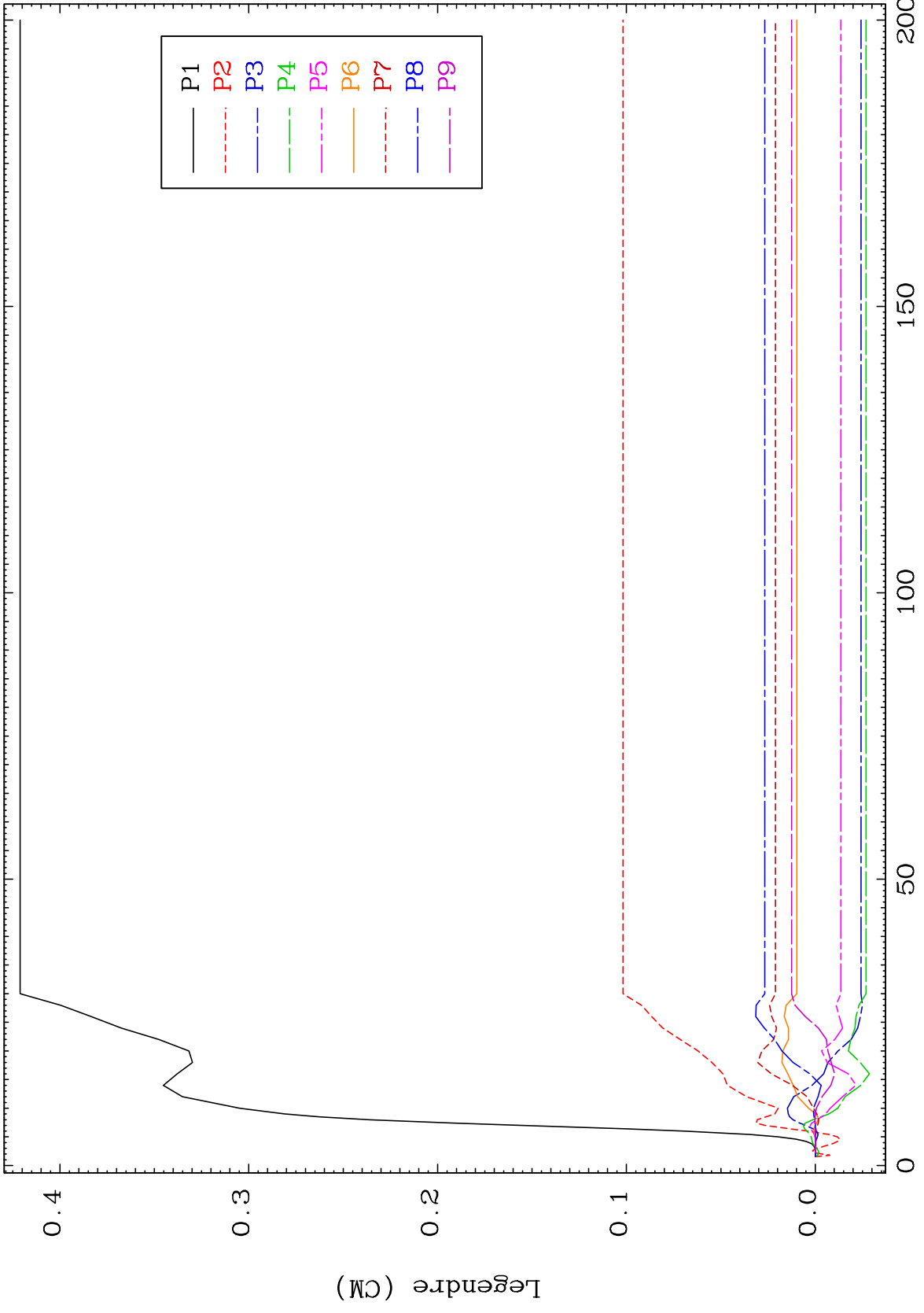
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



96

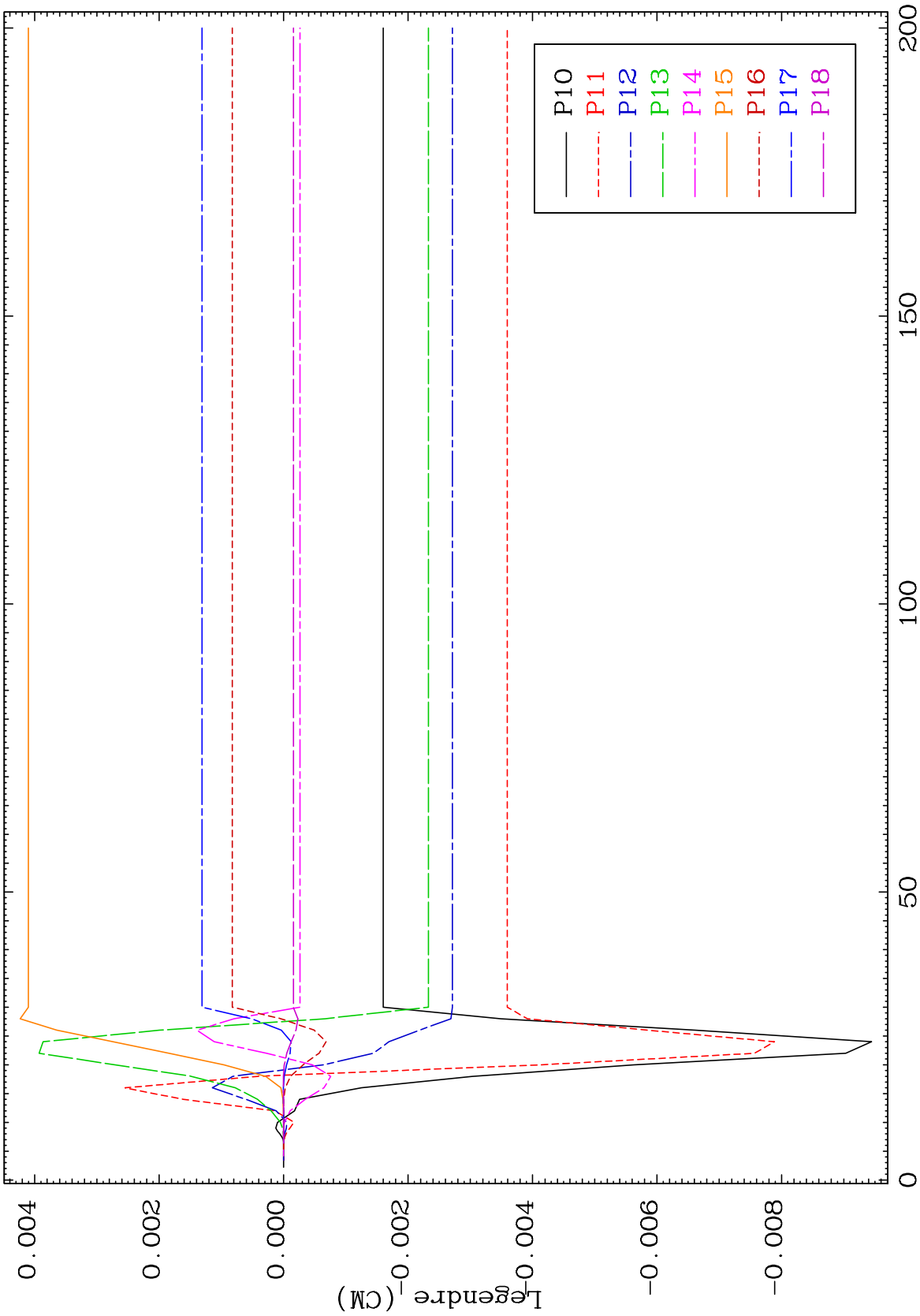
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



97

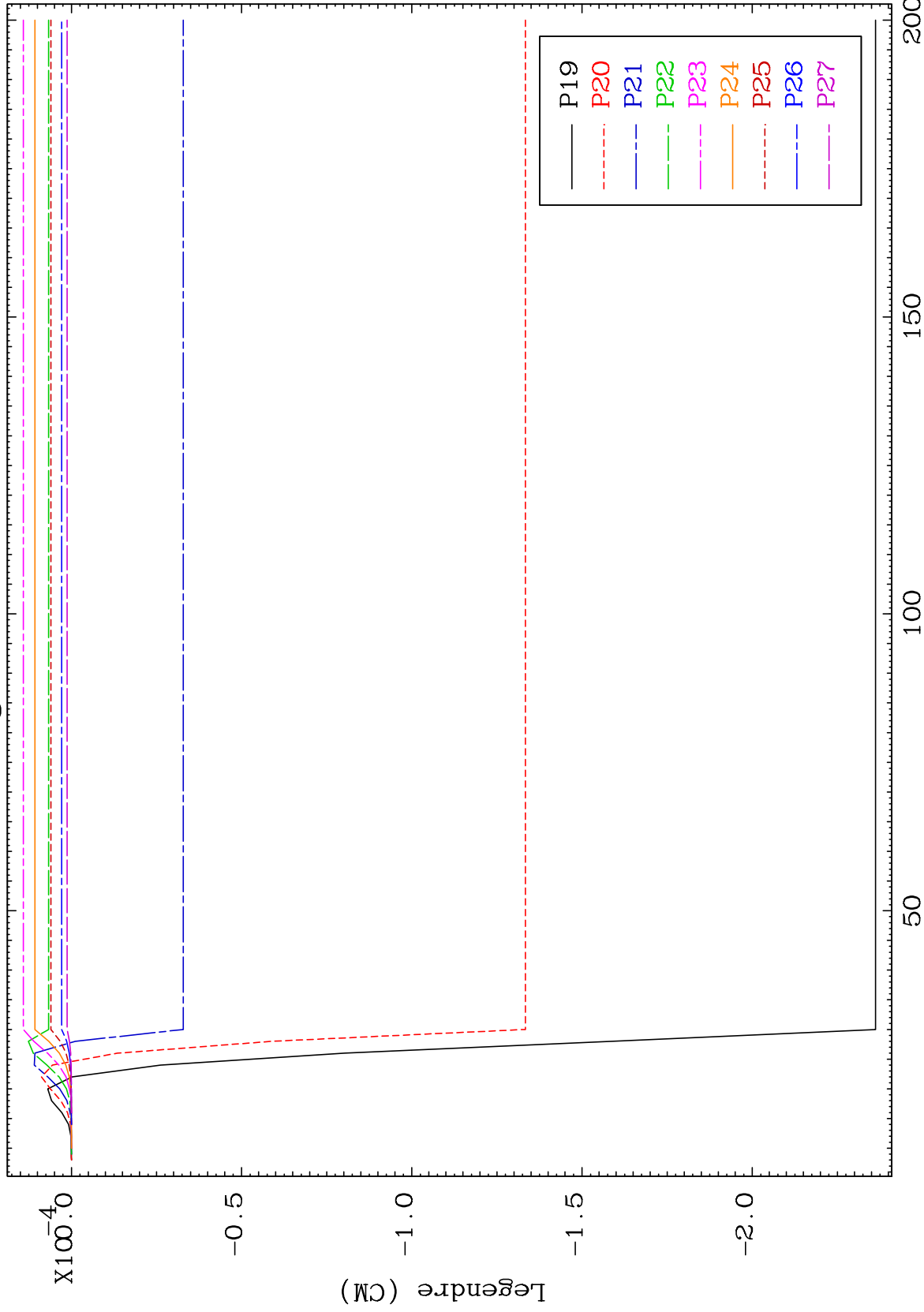
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



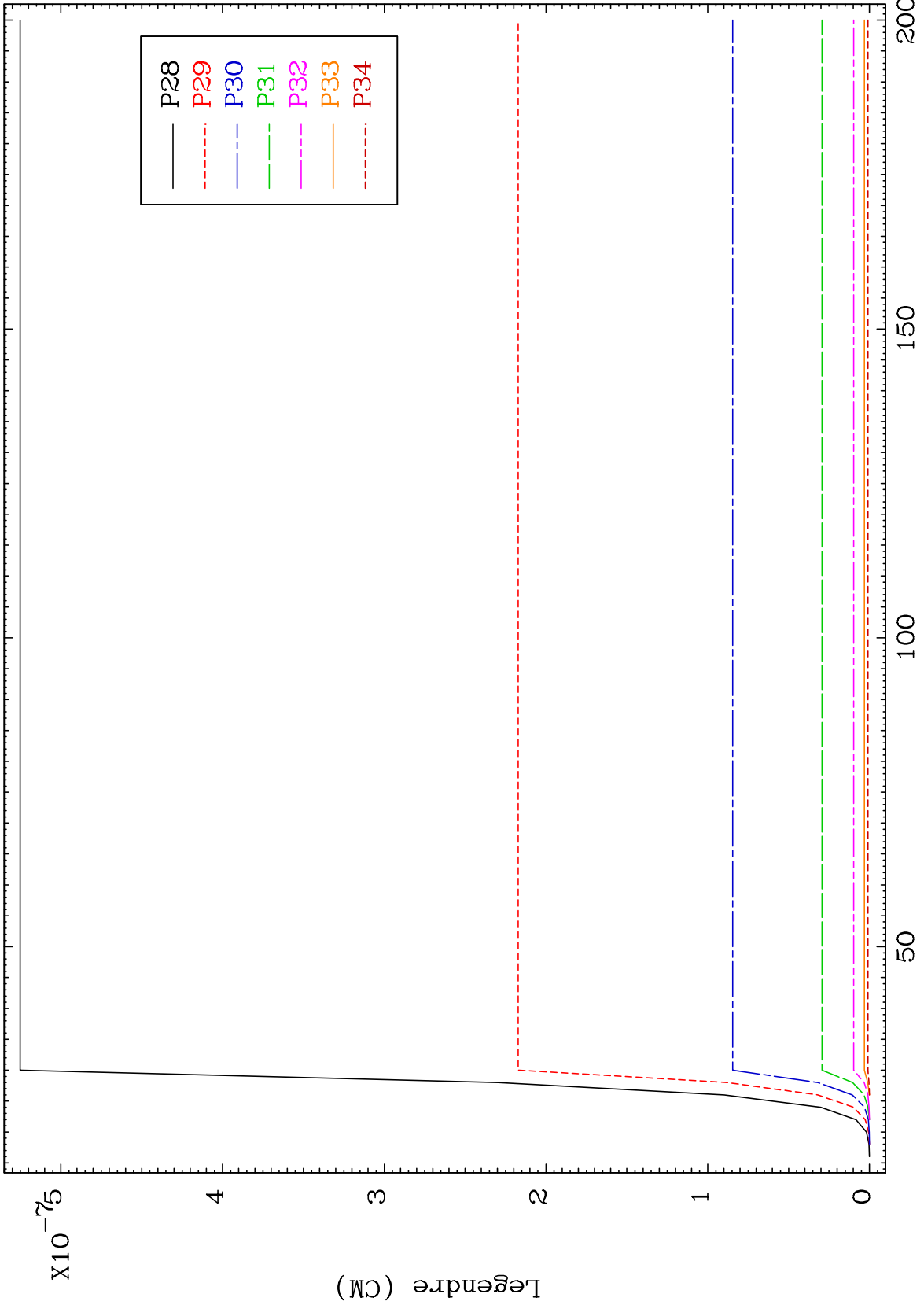
98

54-Xe-139

MAT 5470

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

54-Xe-139



99

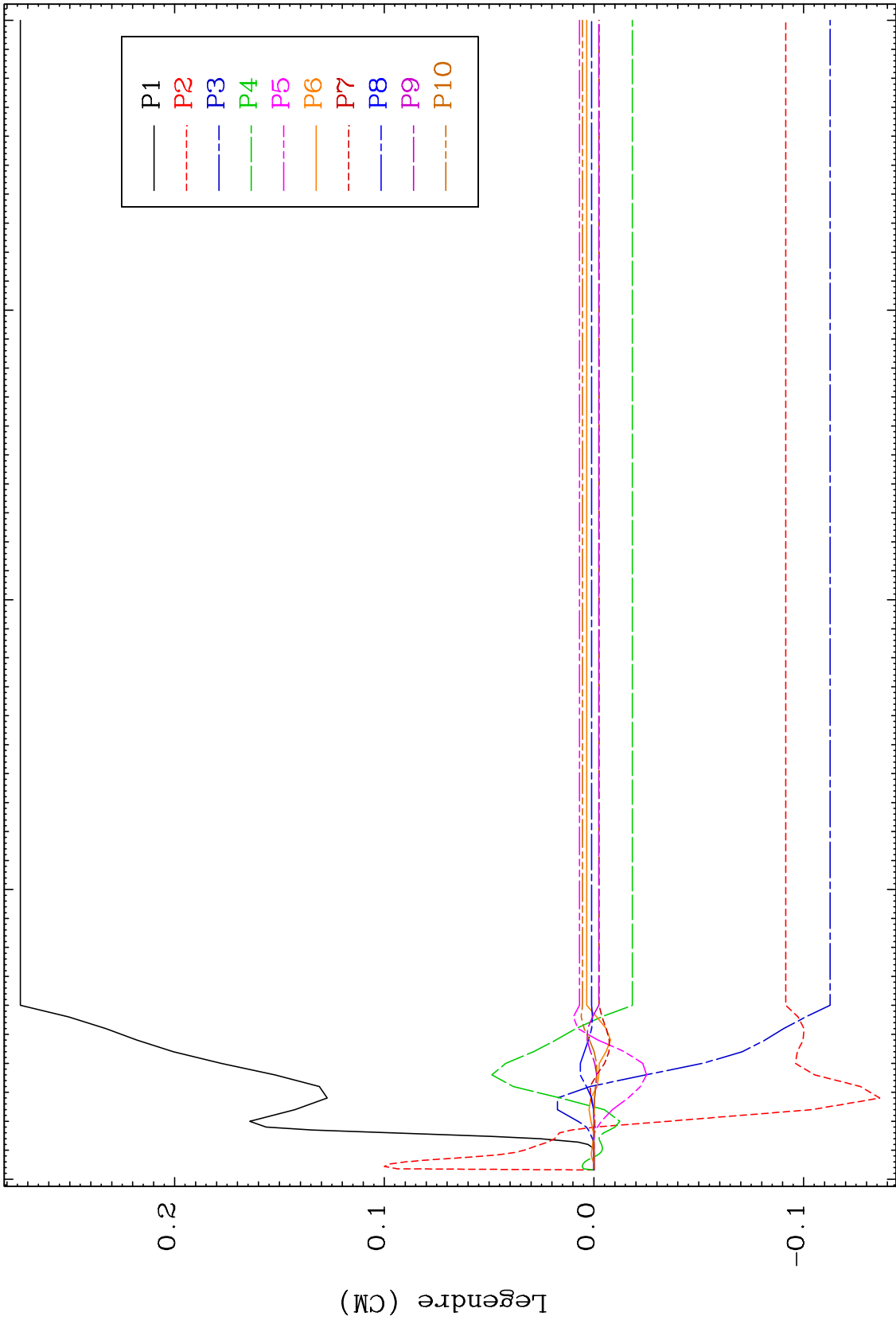
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



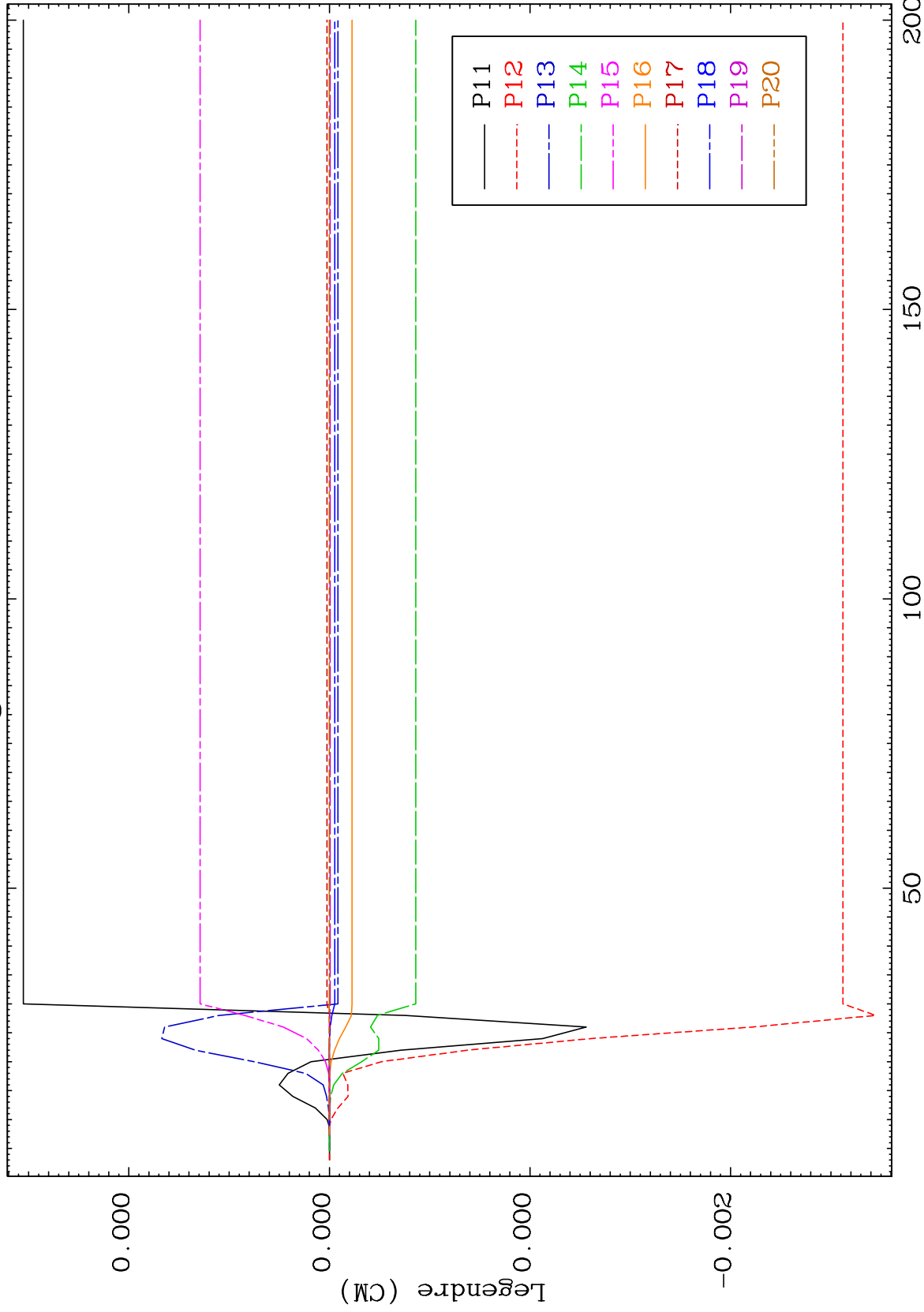
54-Xe-139

Incident Energy (MeV)

MAT 5470

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

54-Xe-139



101

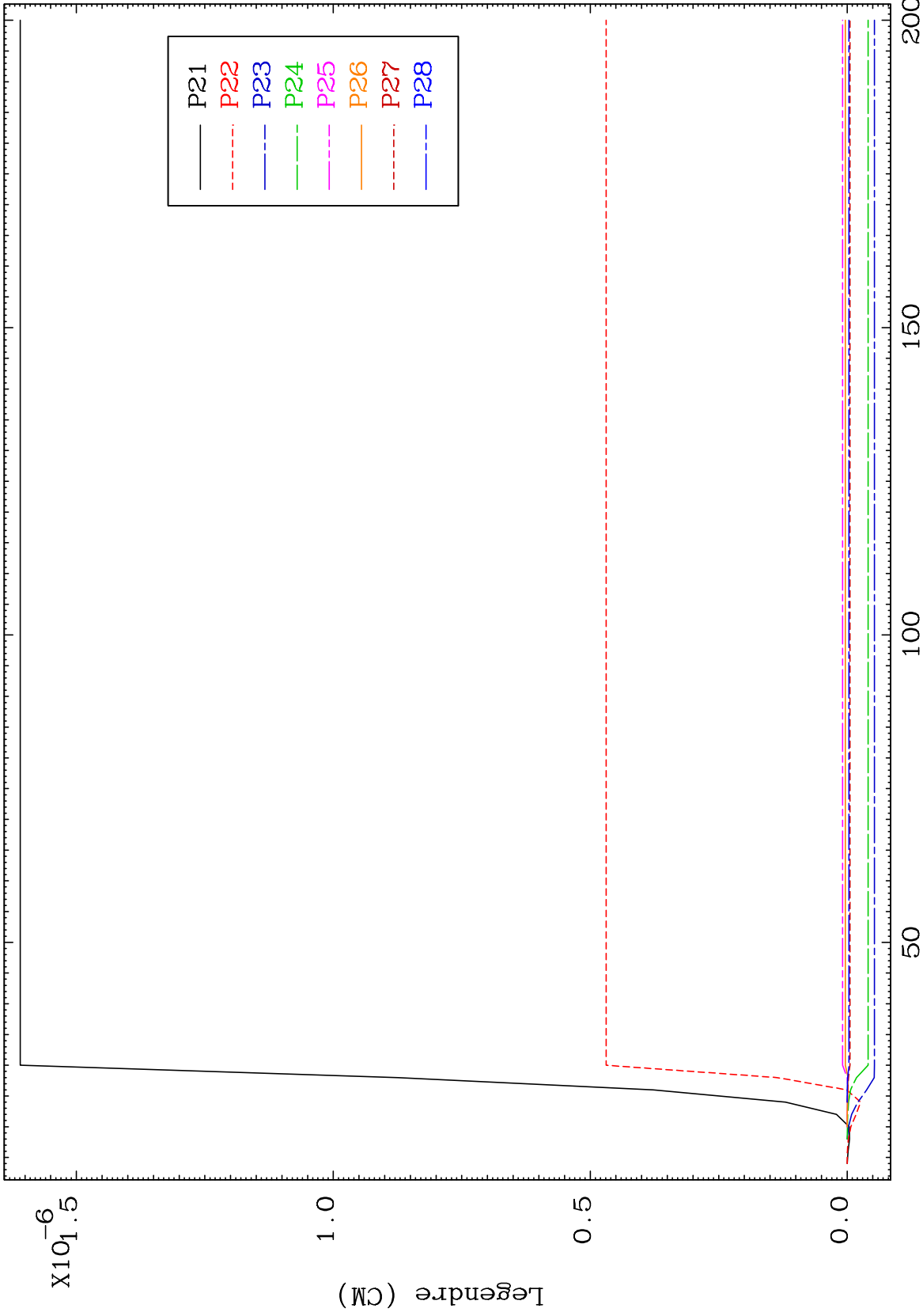
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



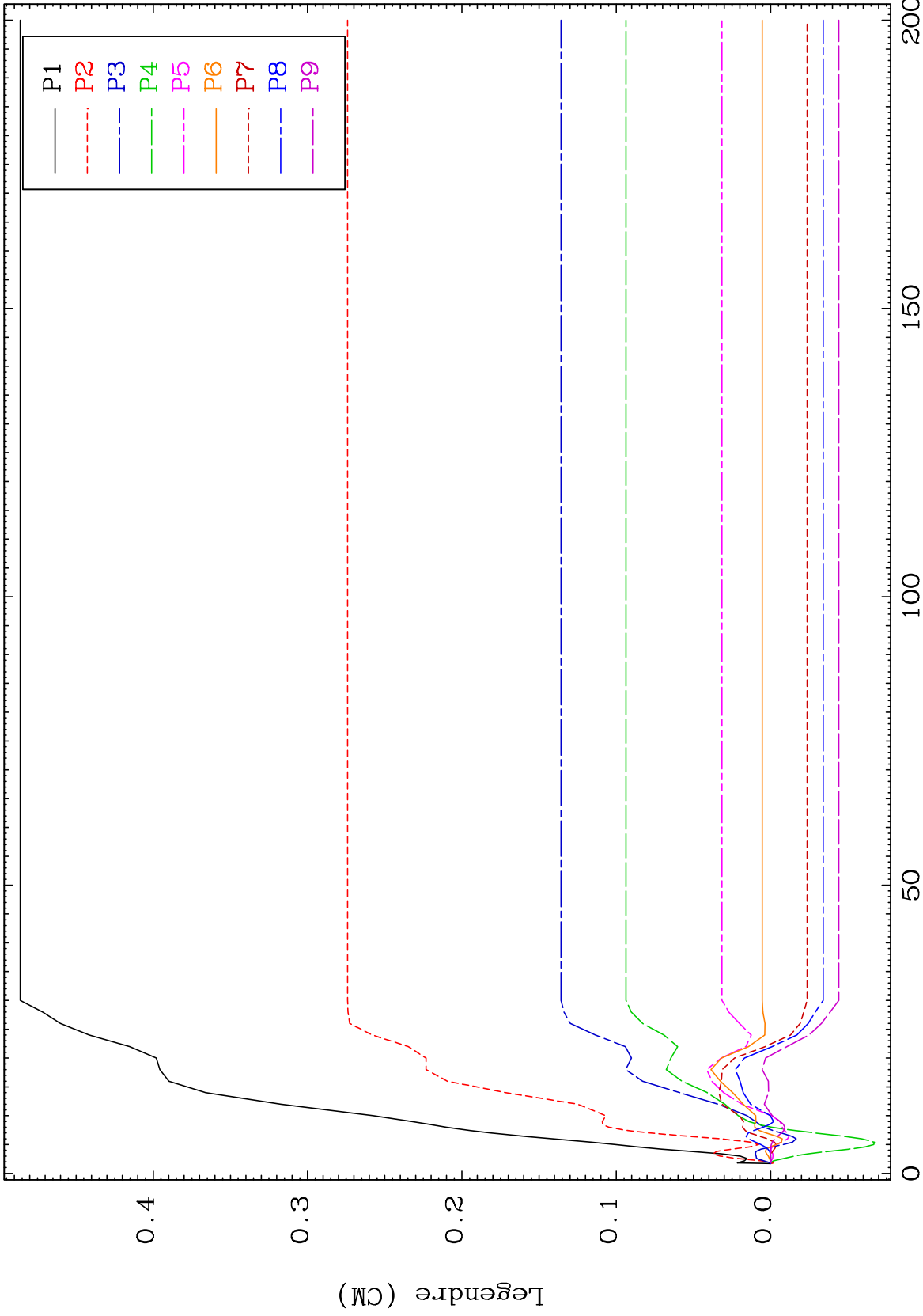
102

54-Xe-139

MAT 5470

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

54-Xe-139



103

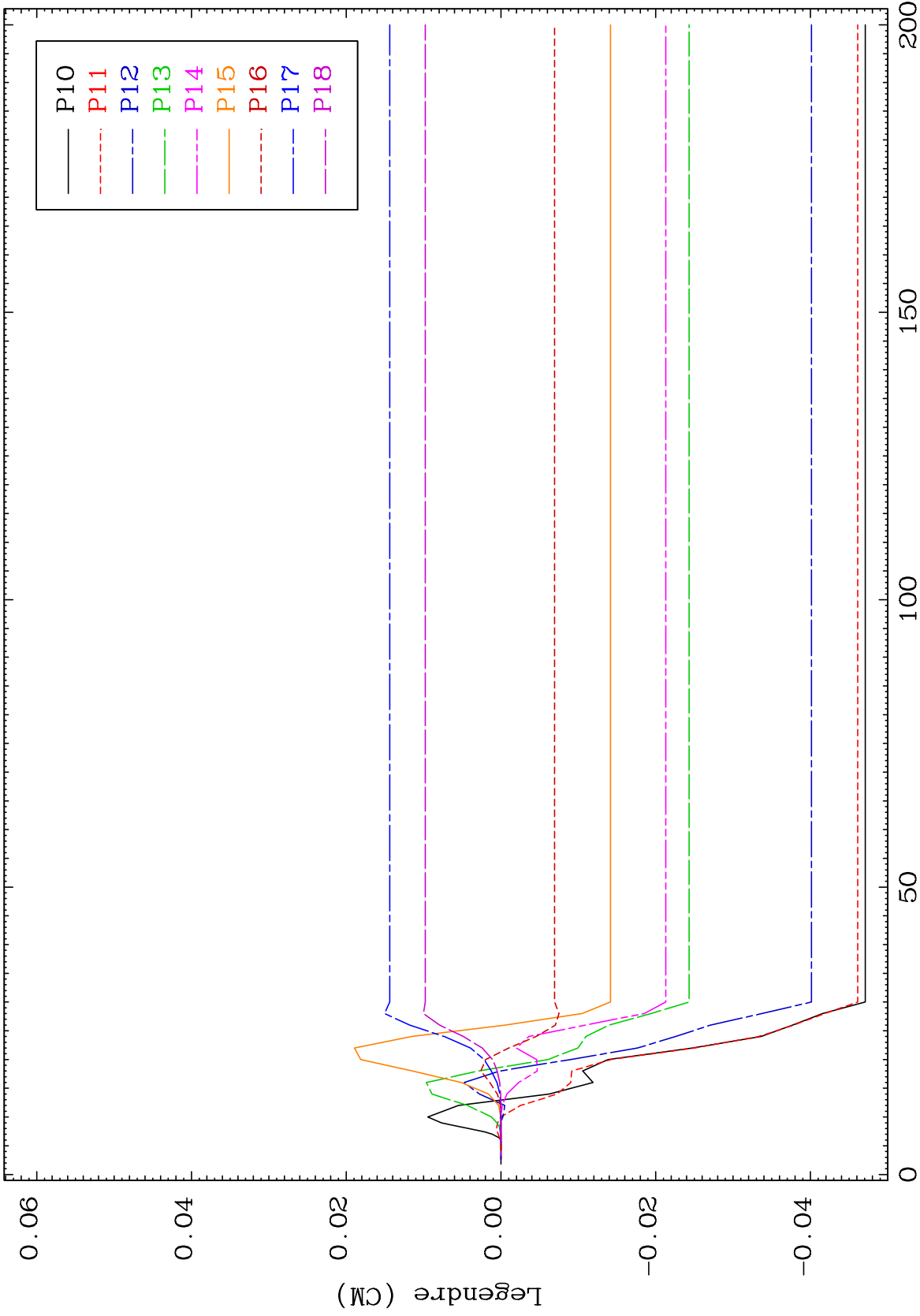
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



104

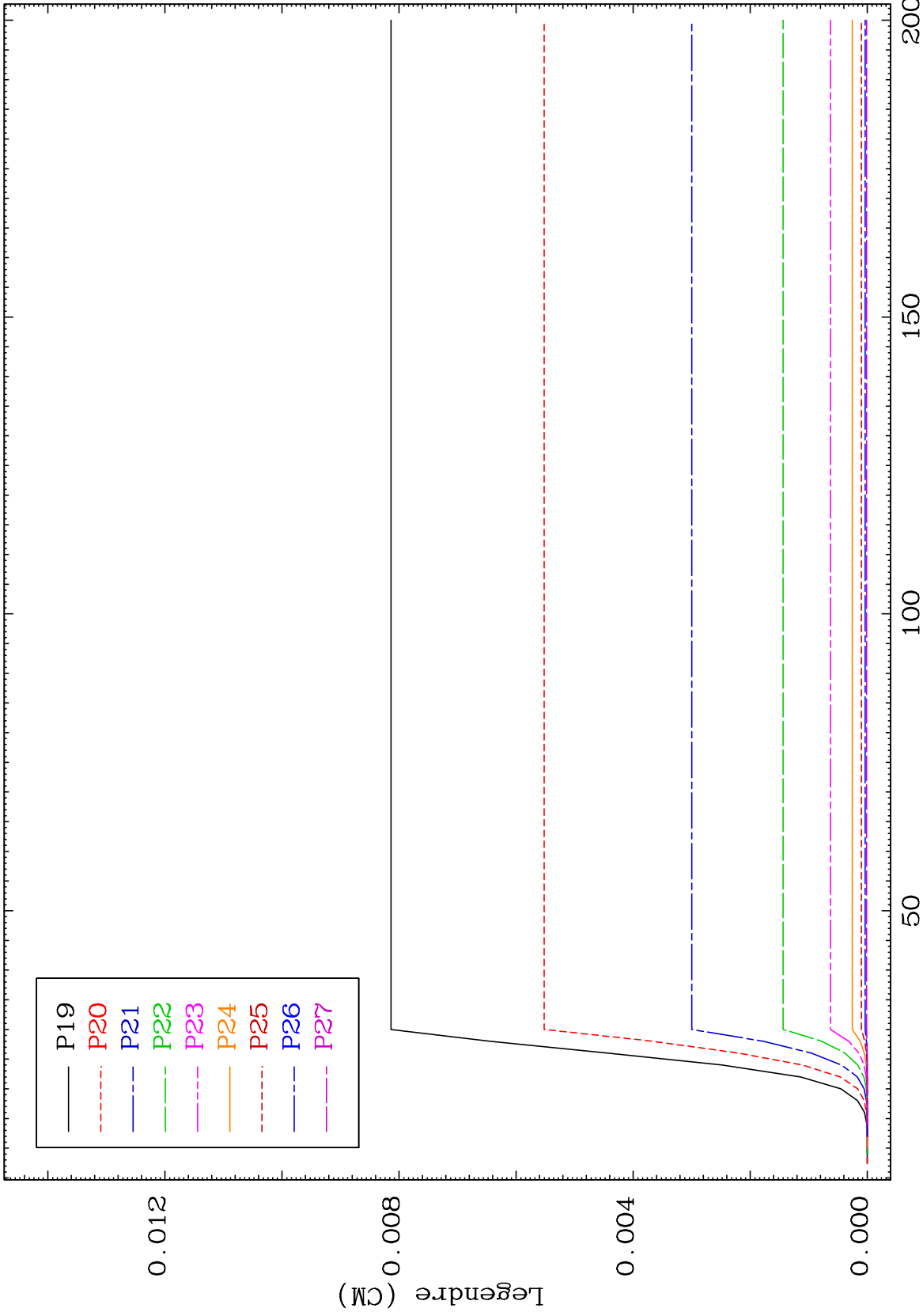
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



105

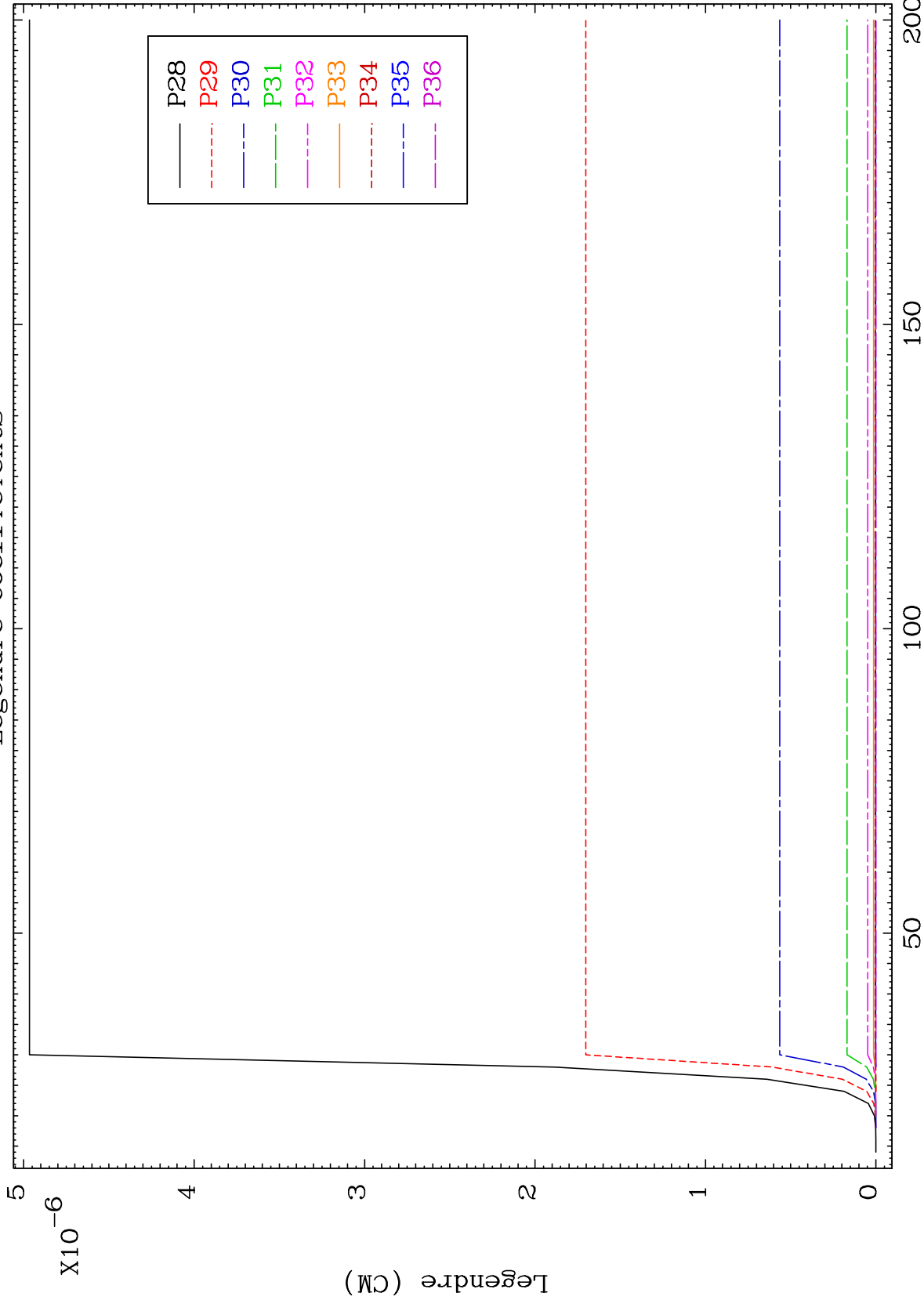
Incident Energy (MeV)

54-Xe-139

MAT 5470

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

54-Xe-139



106

Incident Energy (MeV)

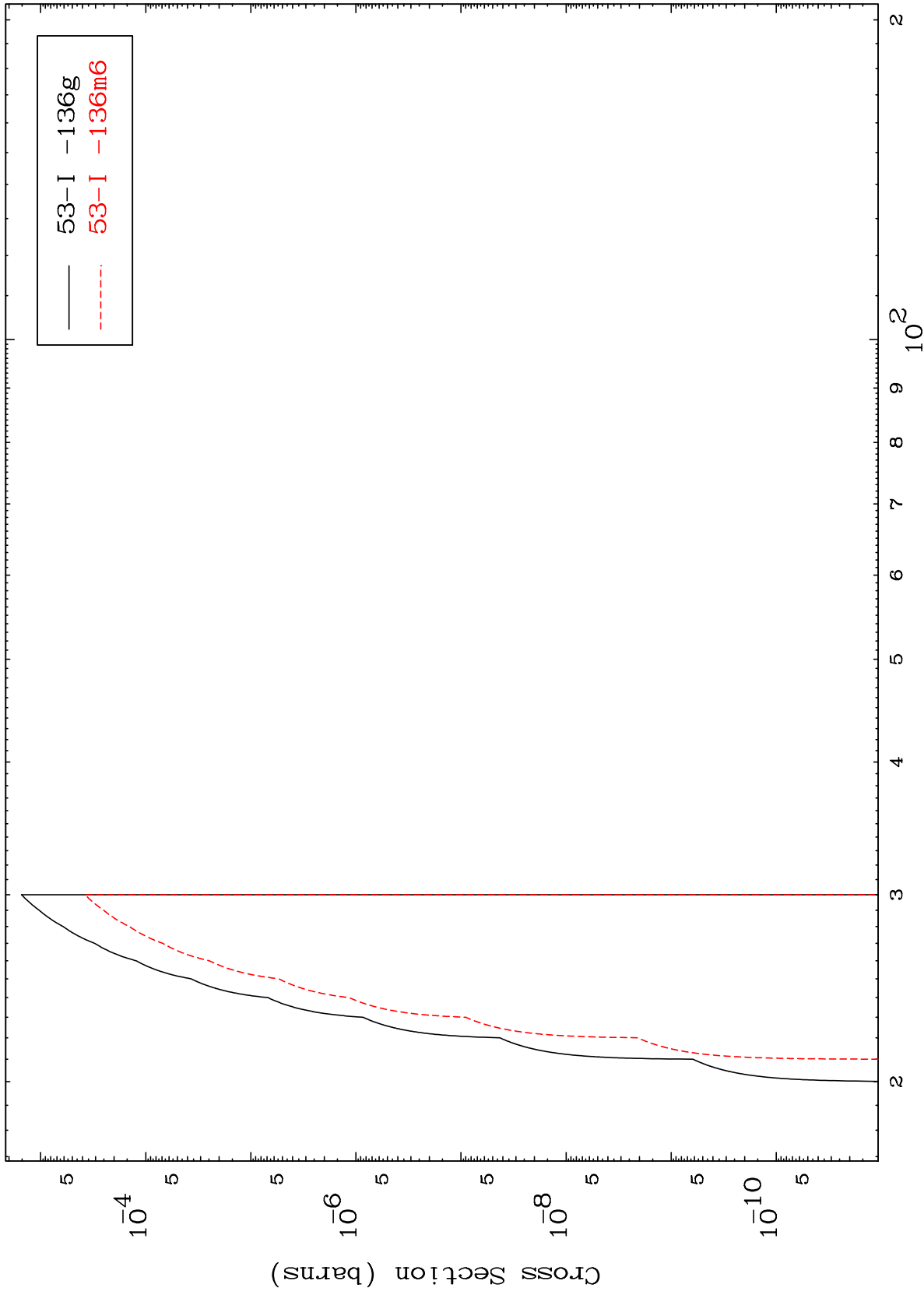
54-Xe-139

MAT 5470

(n,2n) d

54-Xe-139

Radionuclide Production Cross Section



107

Incident Energy (MeV)

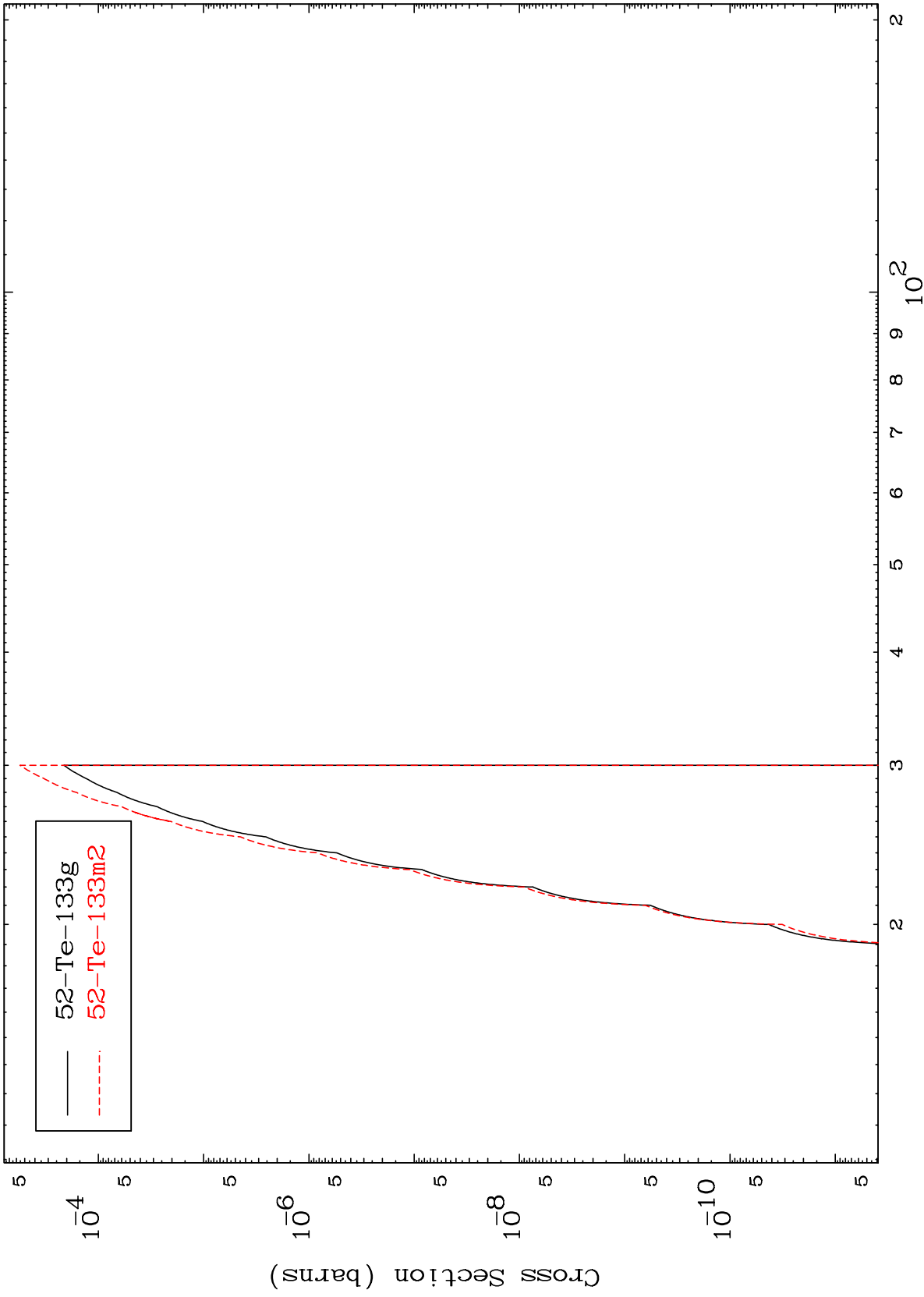
54-Xe-139

MAT 5470

(n,3n) α

54-Xe-139

Radionuclide Production Cross Section



108

Incident Energy (MeV)

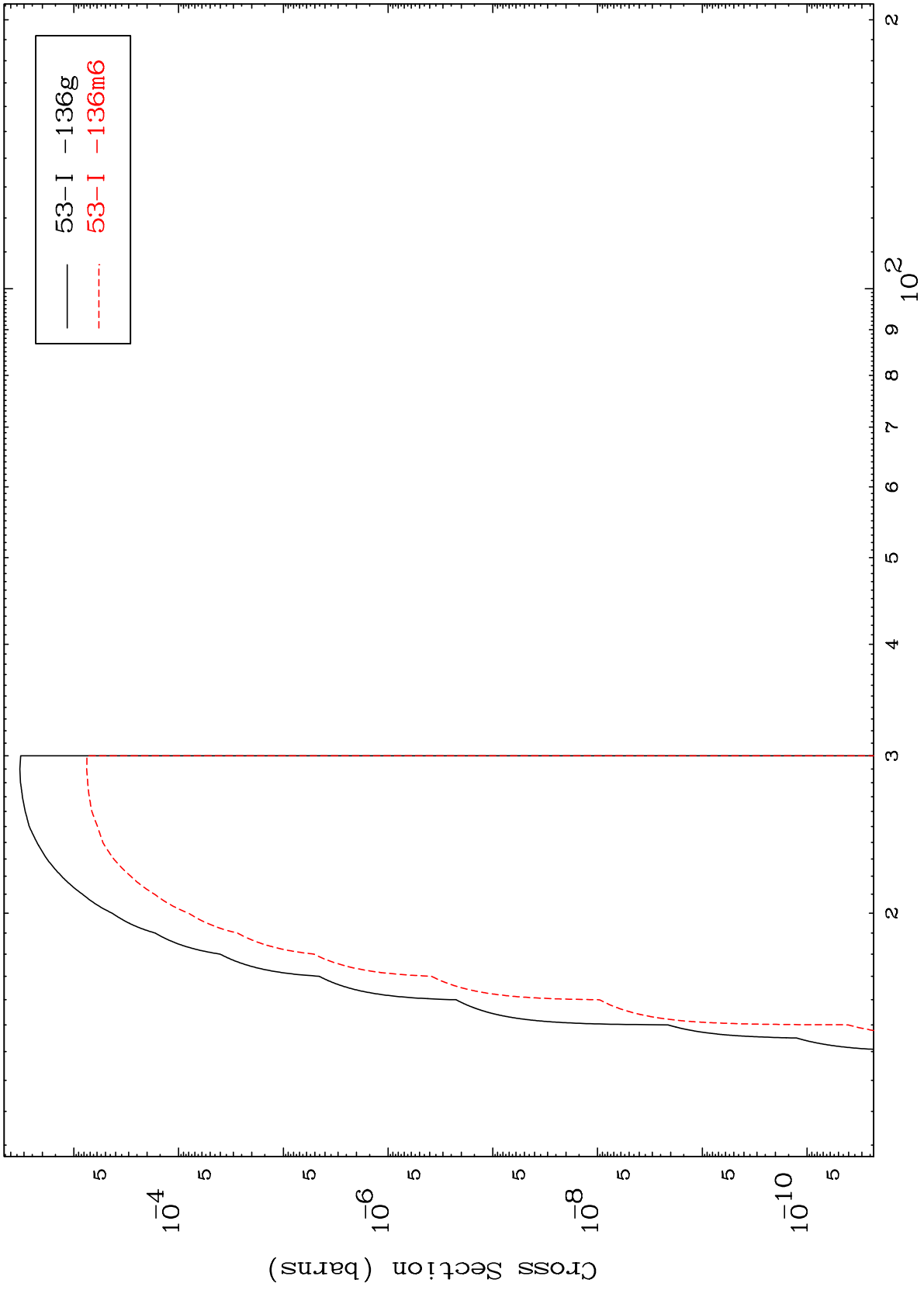
54-Xe-139

MAT 5470

(n,n') t

54-Xe-139

Radionuclide Production Cross Section



109

Incident Energy (MeV)

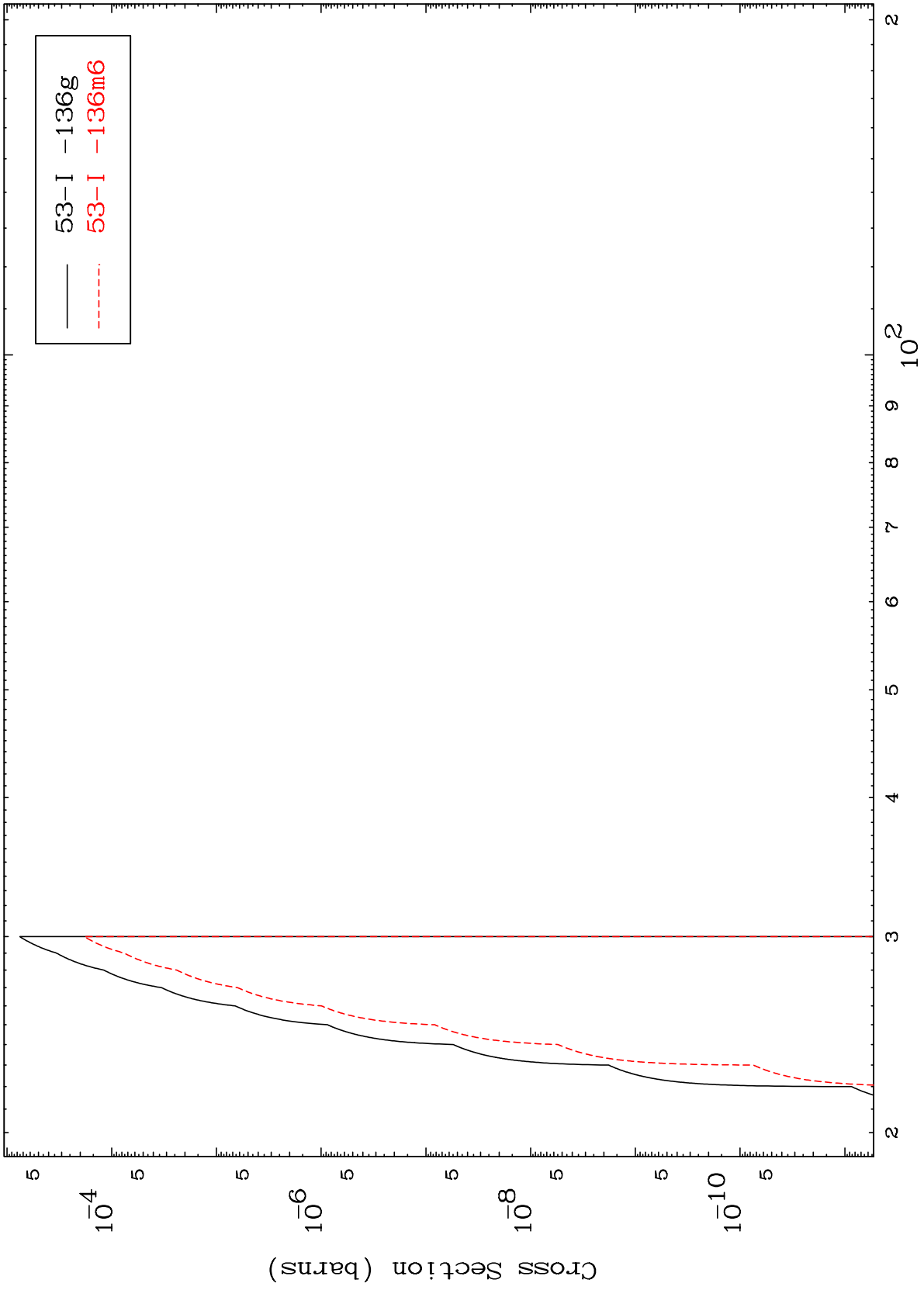
54-Xe-139

MAT 5470

(n,3n) p

54-Xe-139

Radionuclide Production Cross Section



110

Incident Energy (MeV)

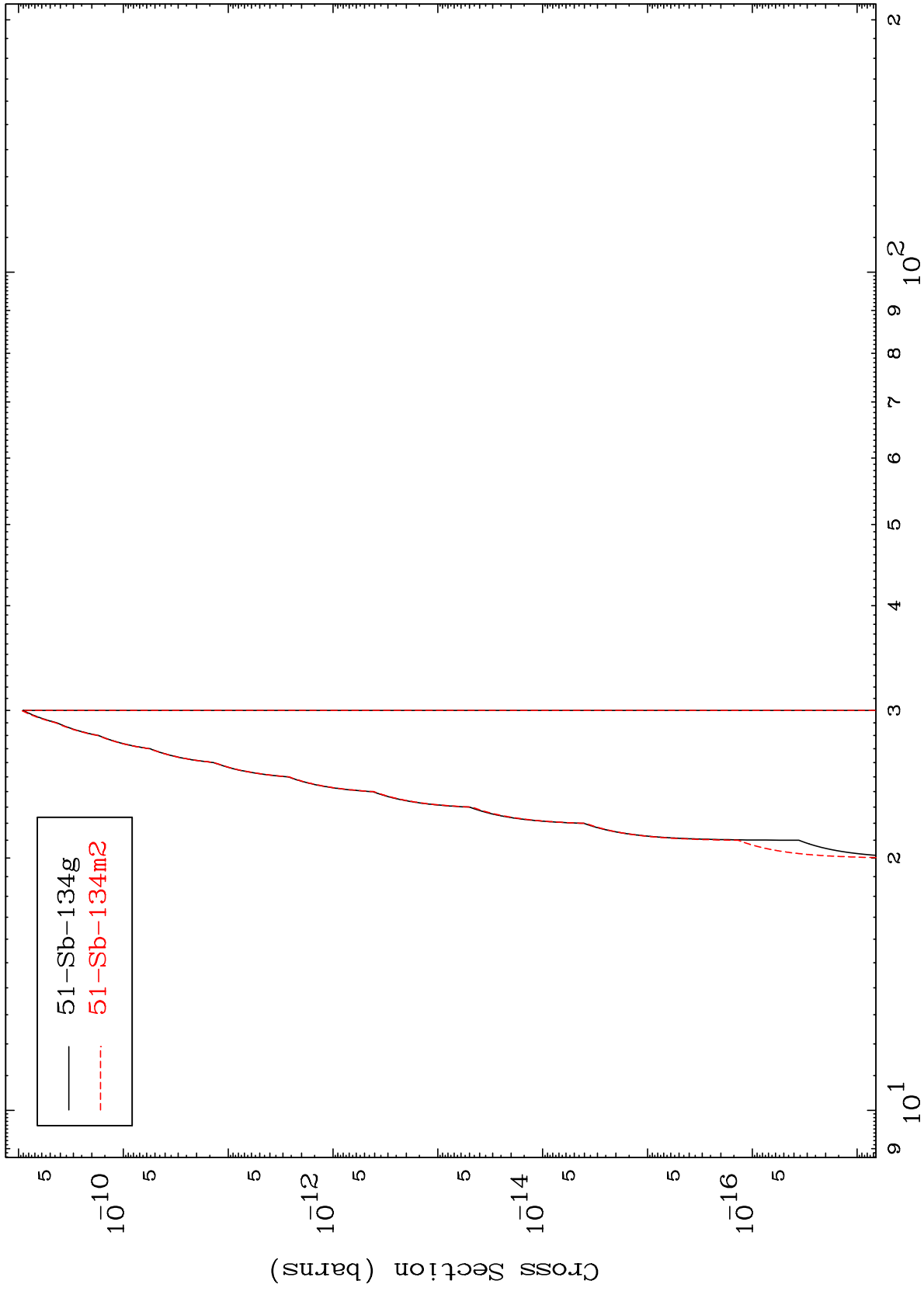
54-Xe-139

MAT 5470

(n,d) α

54-Xe-139

Radionuclide Production Cross Section



111

Incident Energy (MeV)

54-Xe-139