

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

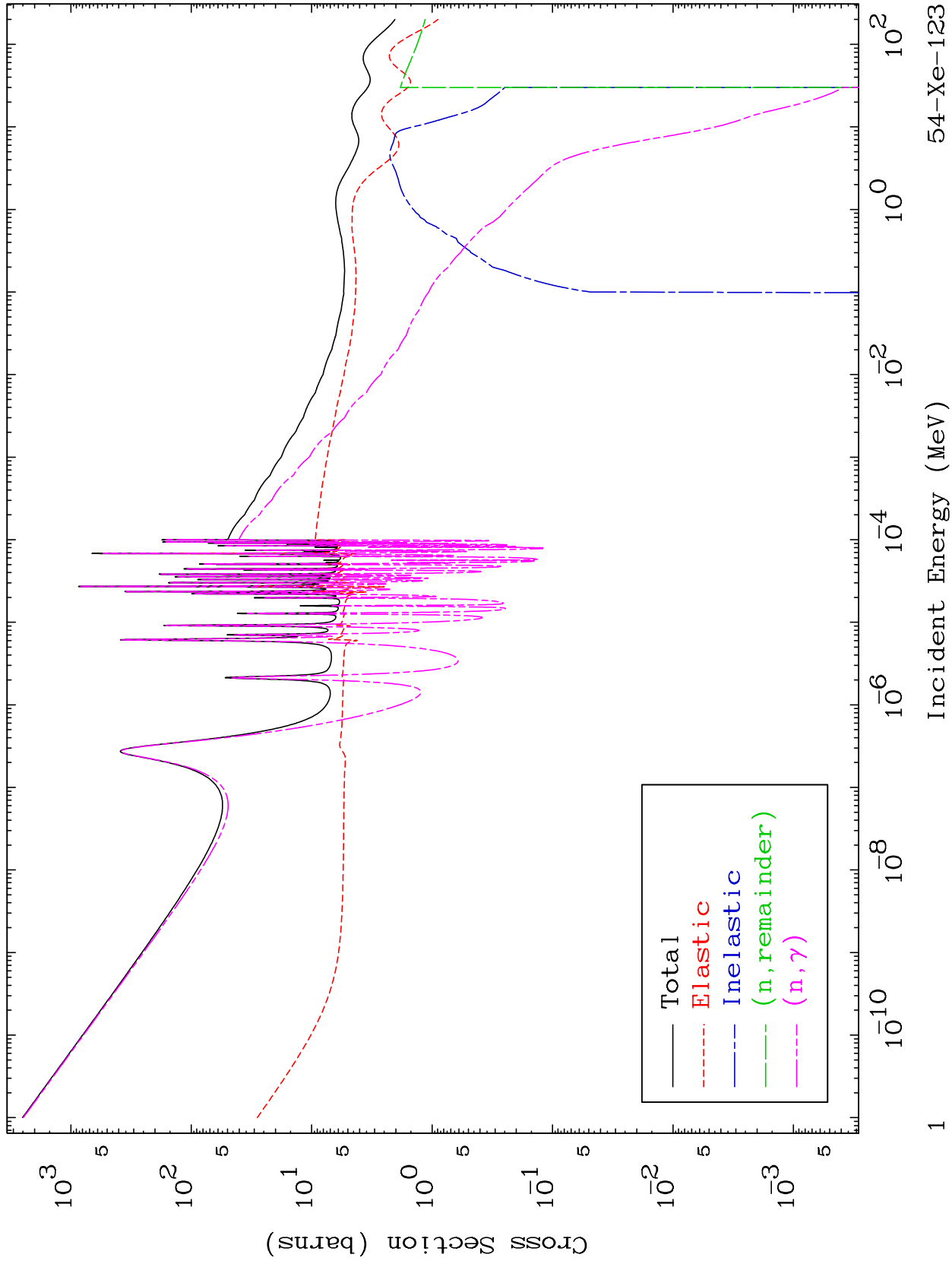
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5422

Major
293 Kelvin Cross Sections

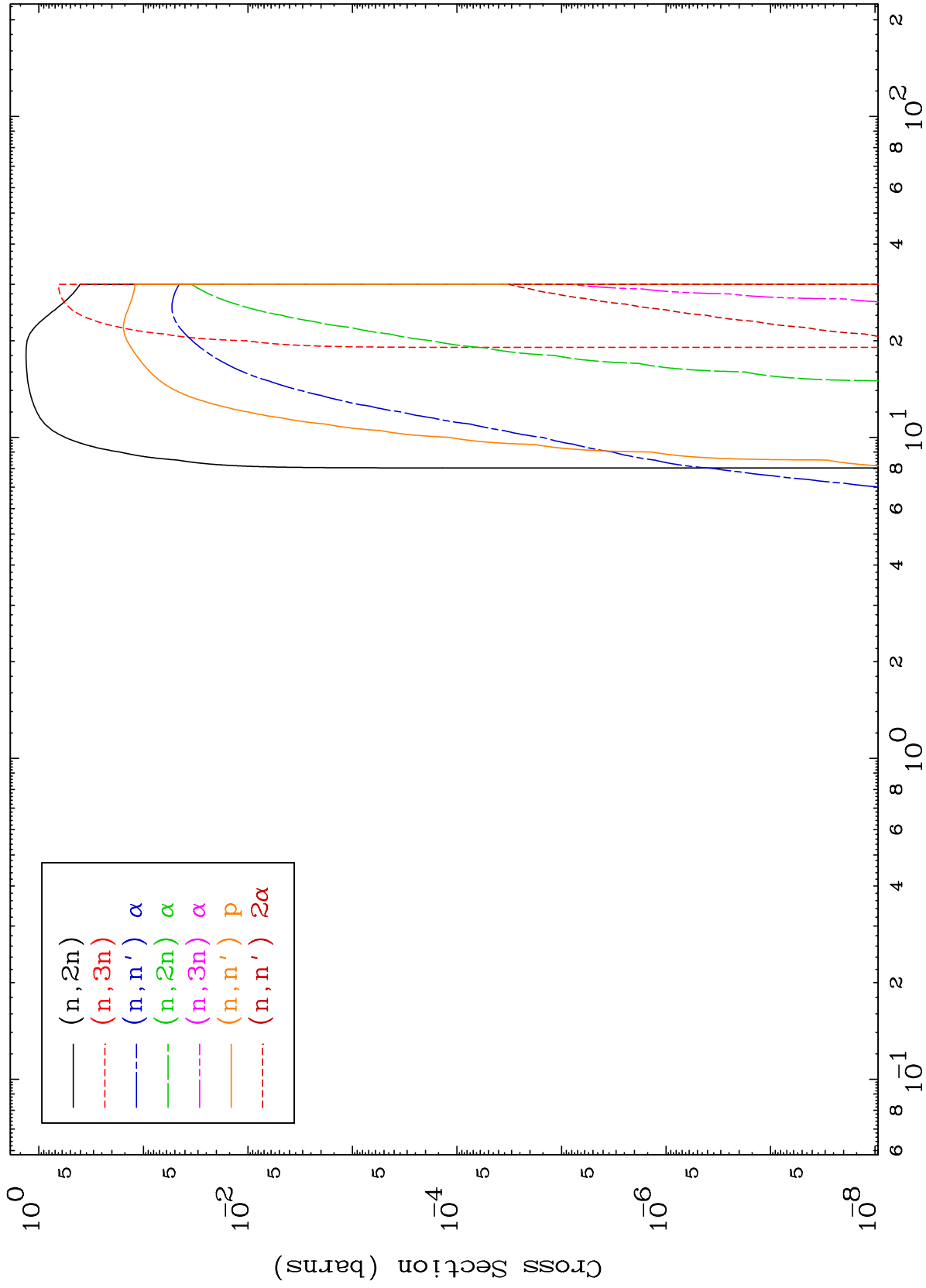
54-Xe-123



MAT 5422

Neutron Production
293 Kelvin Cross Sections

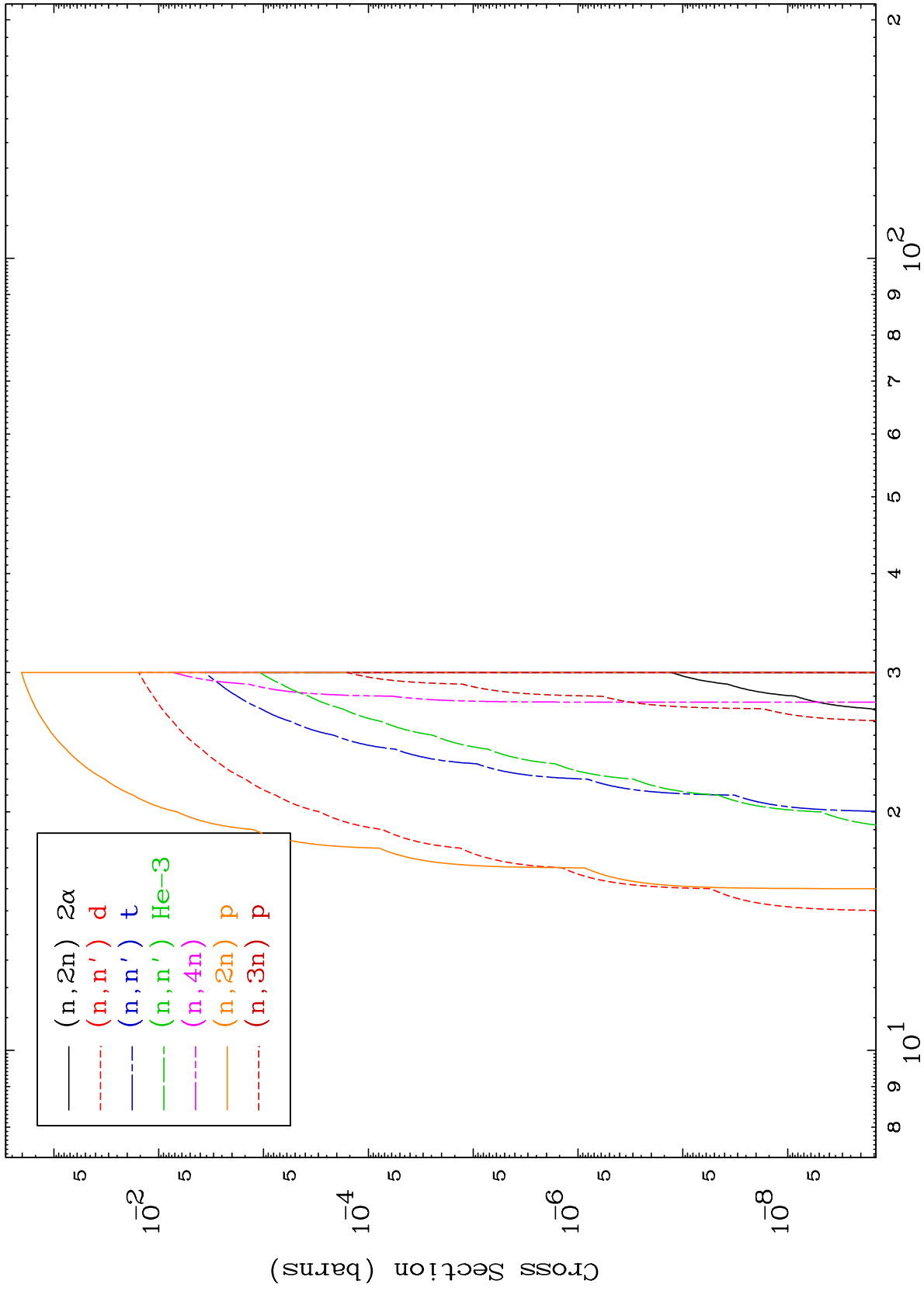
54-Xe-123

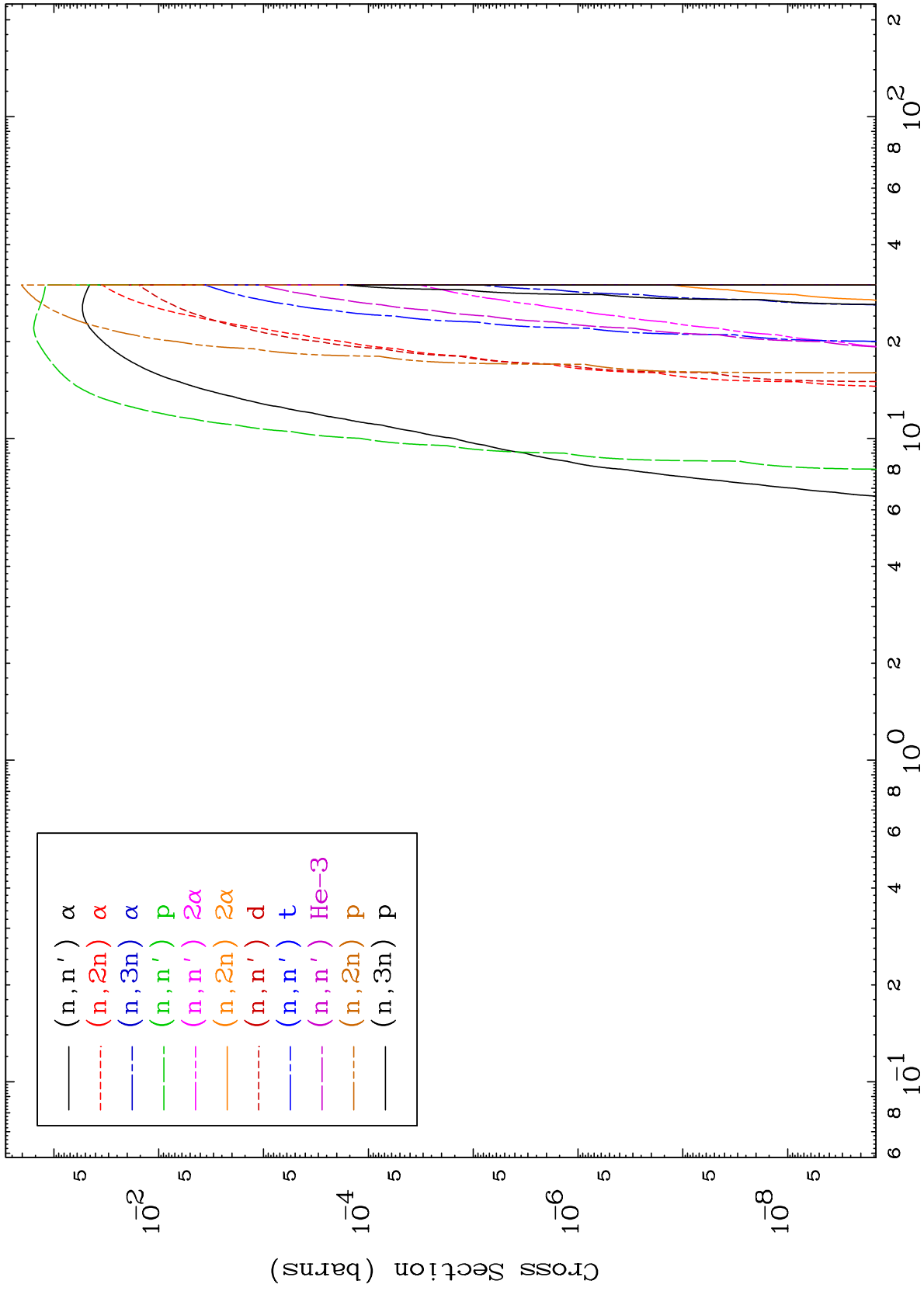


2

Incident Energy (MeV)

54-Xe-123

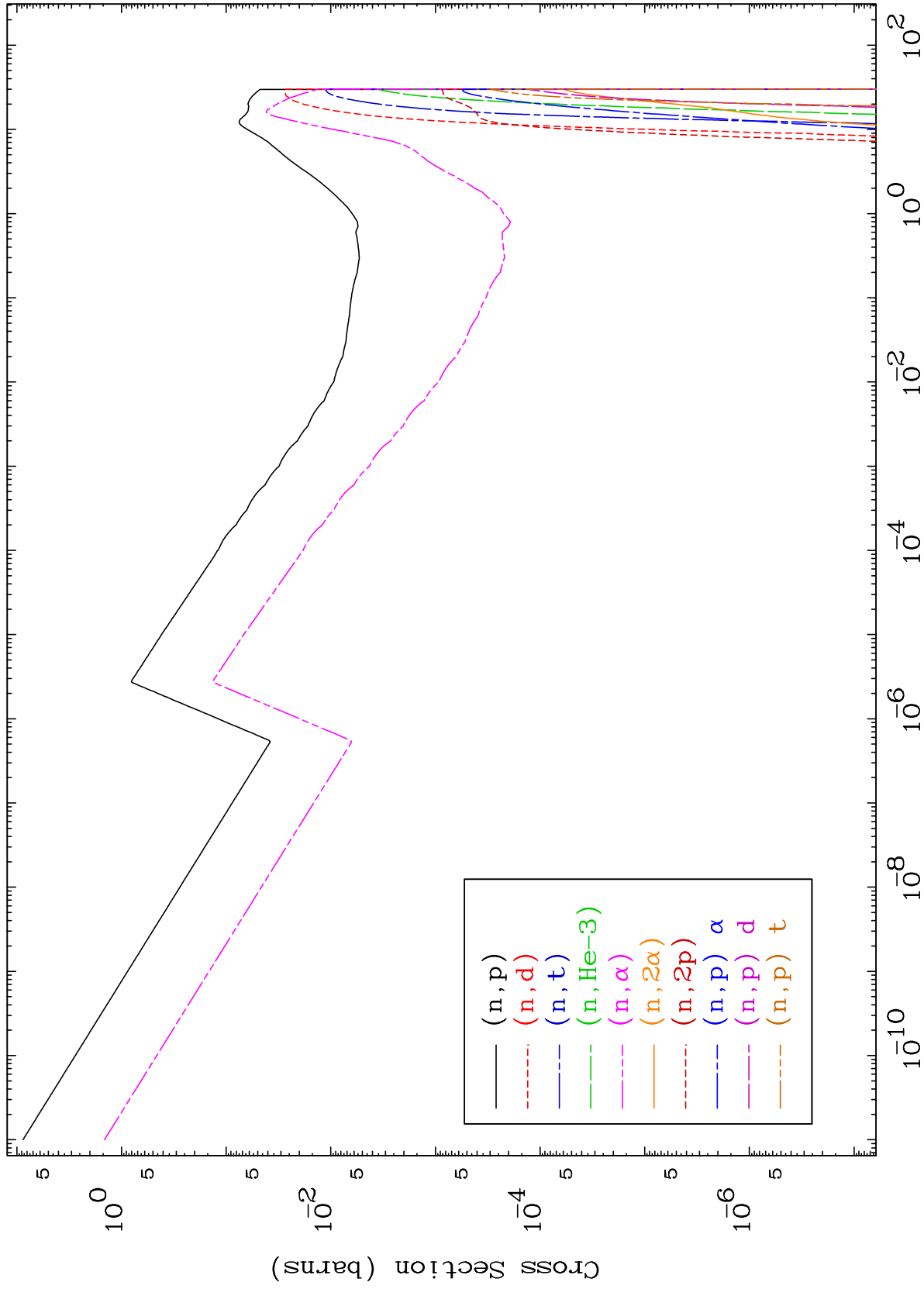




MAT 5422

Charged Particle
293 Kelvin Cross Sections

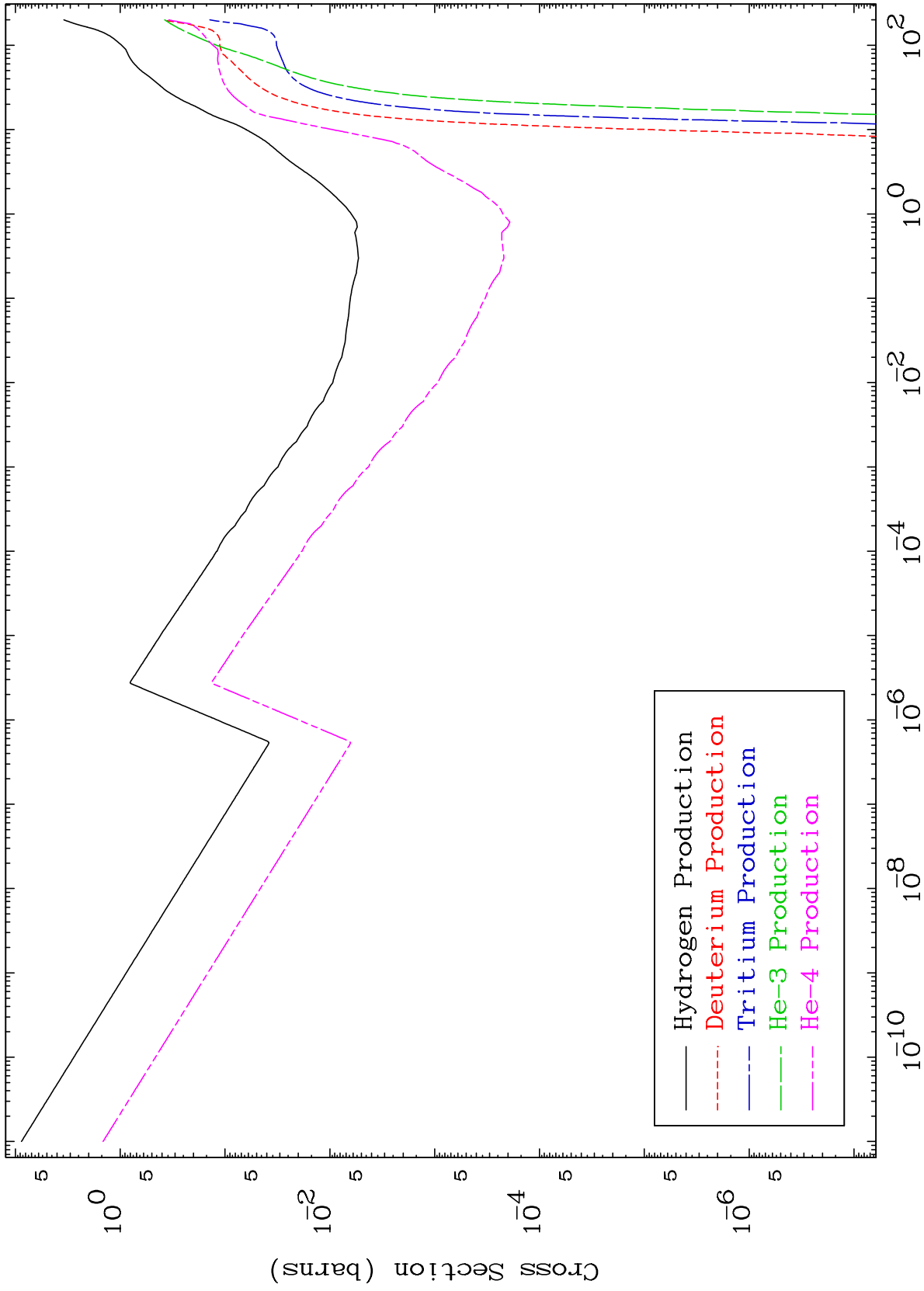
54-Xe-123



MAT 5422

Particle Production
293 Kelvin Cross Sections

54-Xe-123

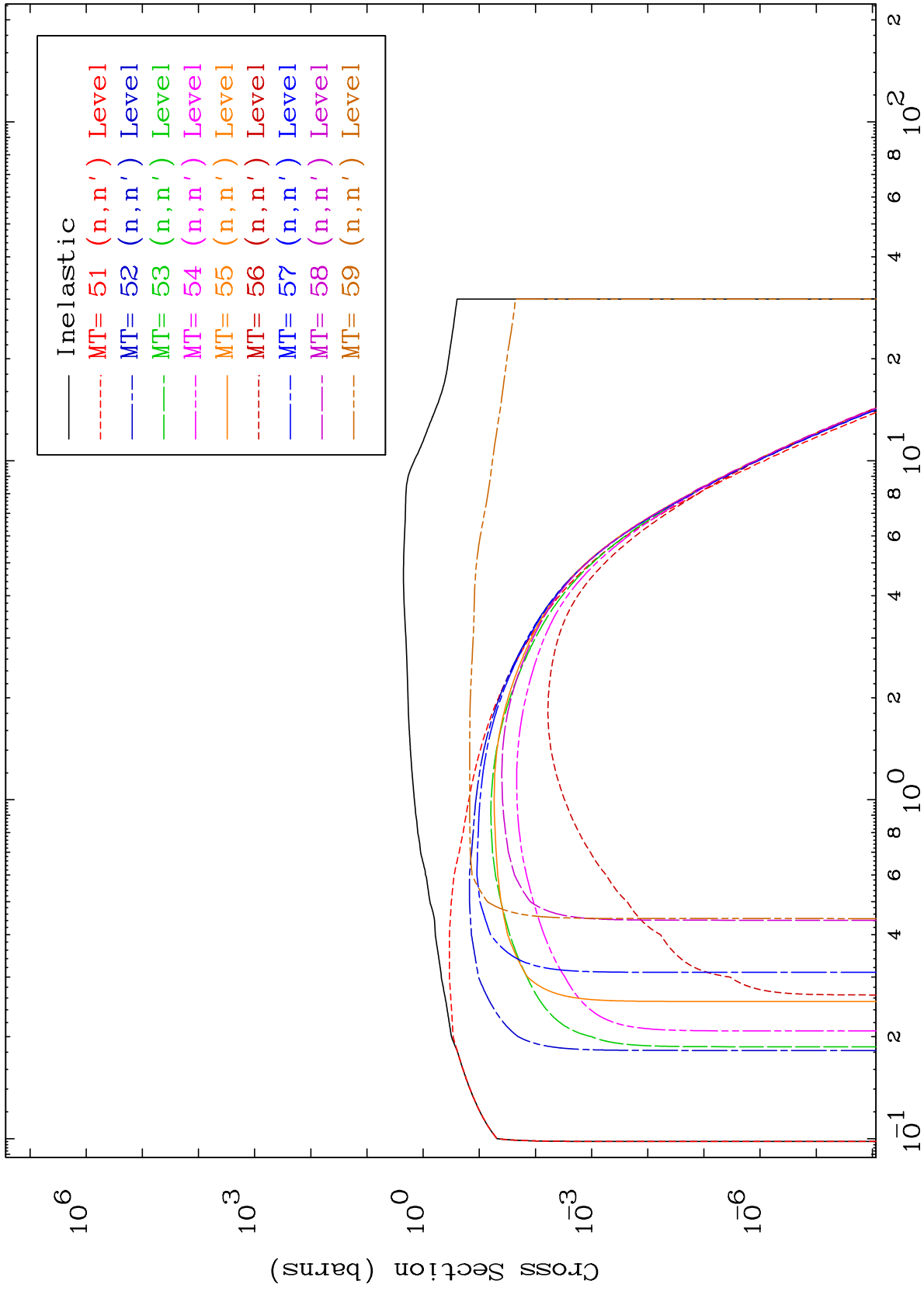


MAT 5422

(n,n') Level

54-Xe-123

293 Kelvin Cross Sections



7

Incident Energy (MeV)

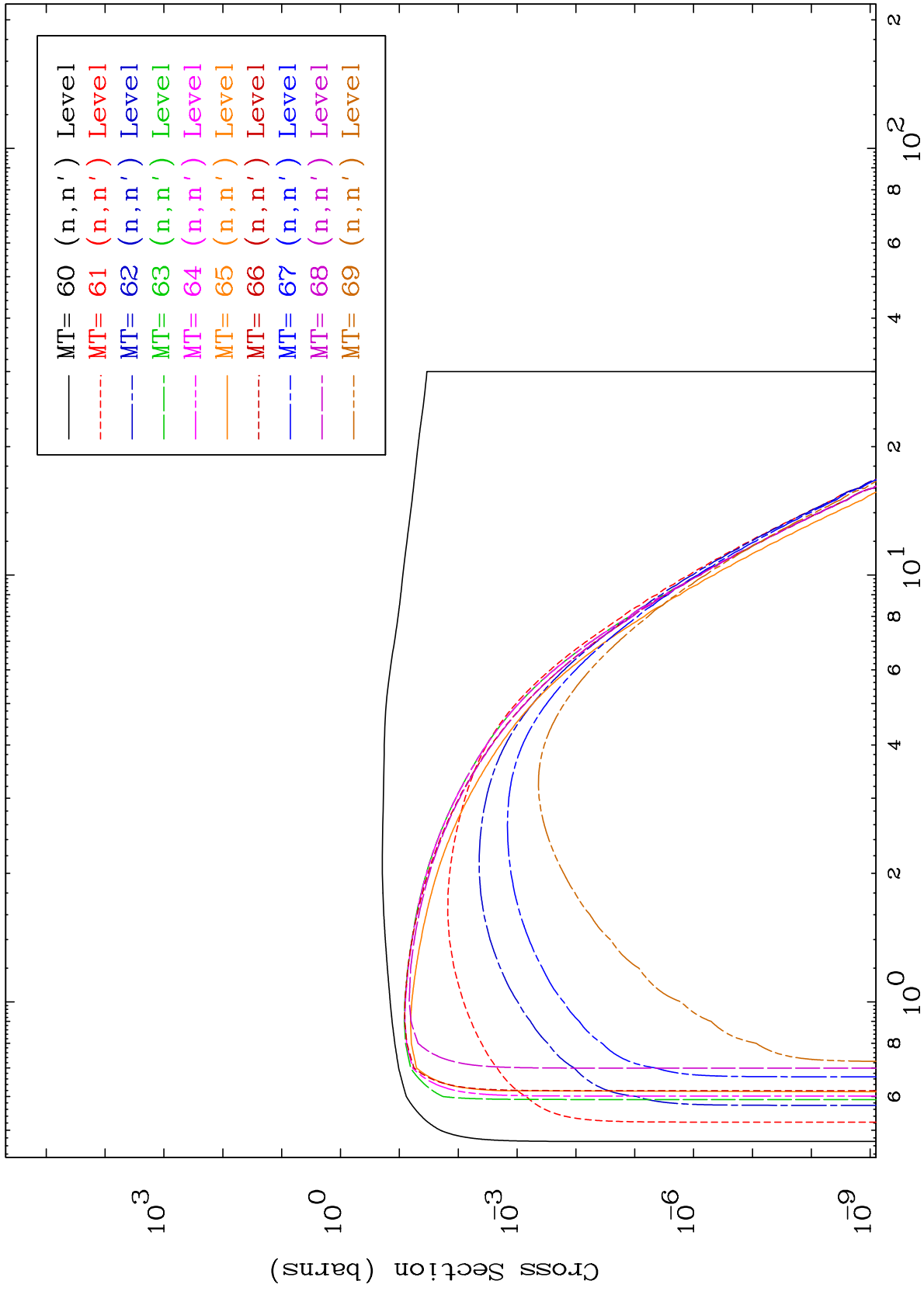
54-Xe-123

MAT 5422

(n,n') Level

54-Xe-123

293 Kelvin Cross Sections



8

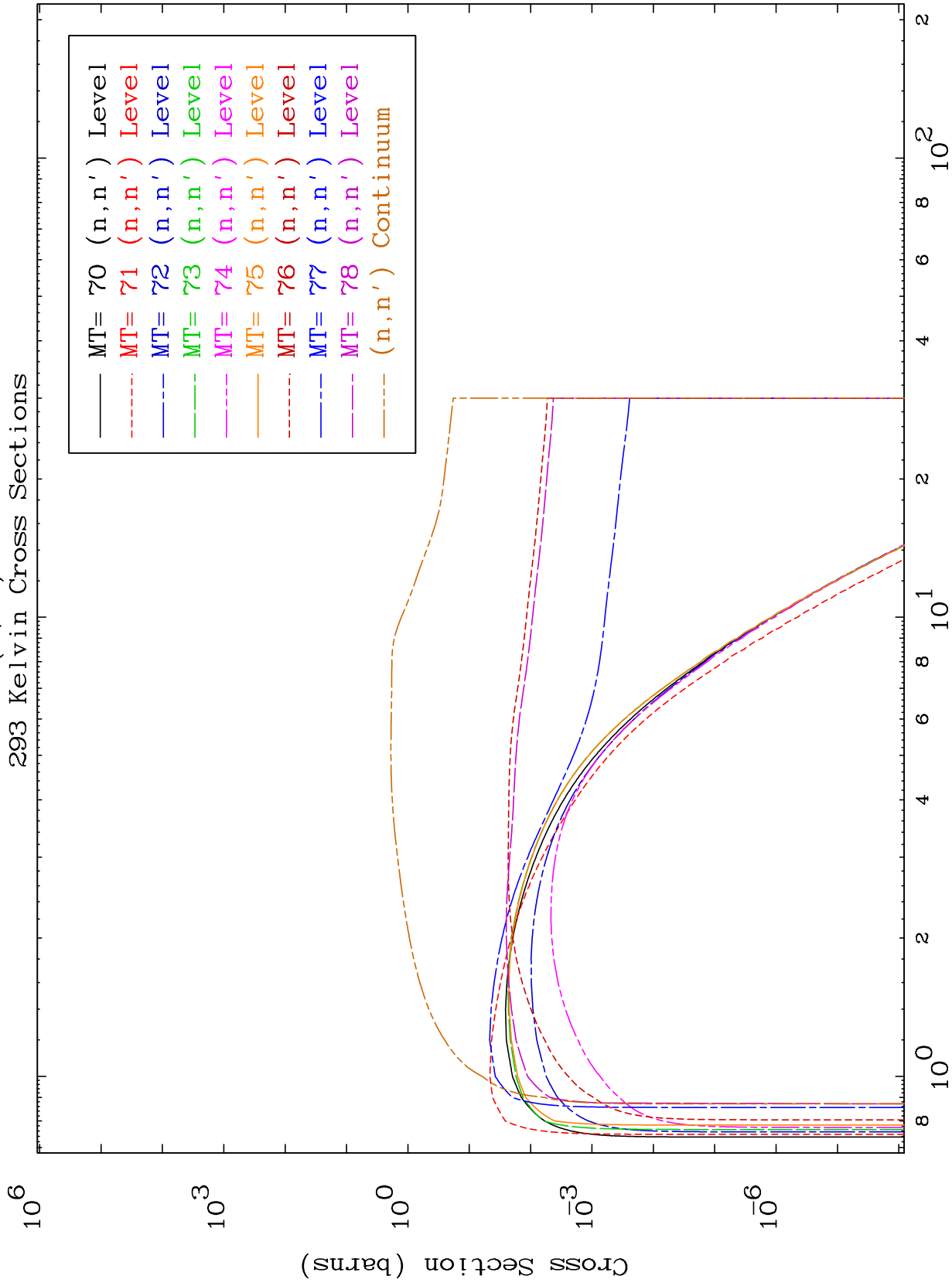
Incident Energy (MeV)

54-Xe-123

MAT 5422

(n,n') Level

54-Xe-123



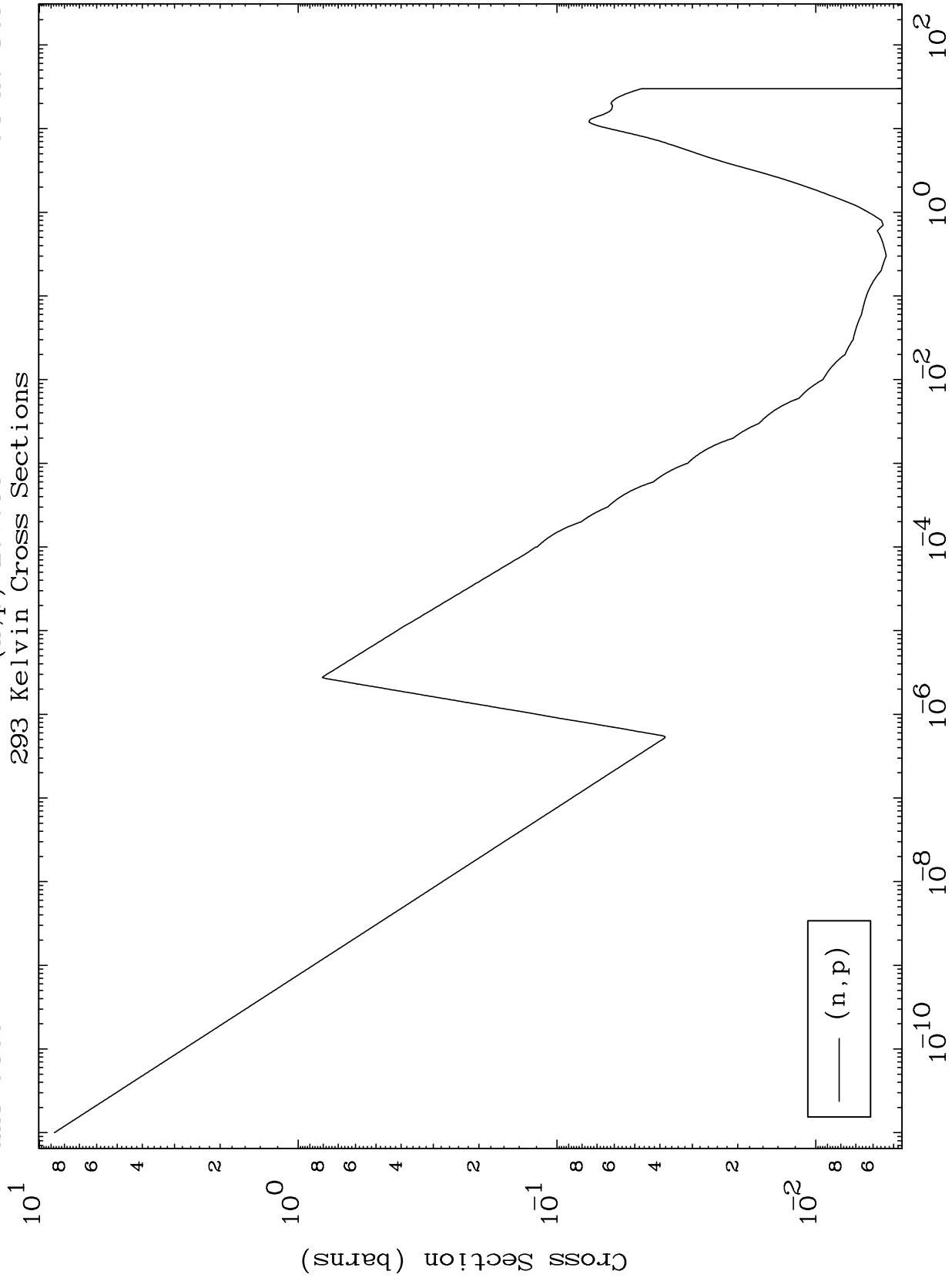
9

54-Xe-123

MAT 5422

(n,p) Levels
293 Kelvin Cross Sections

54-Xe-123



10

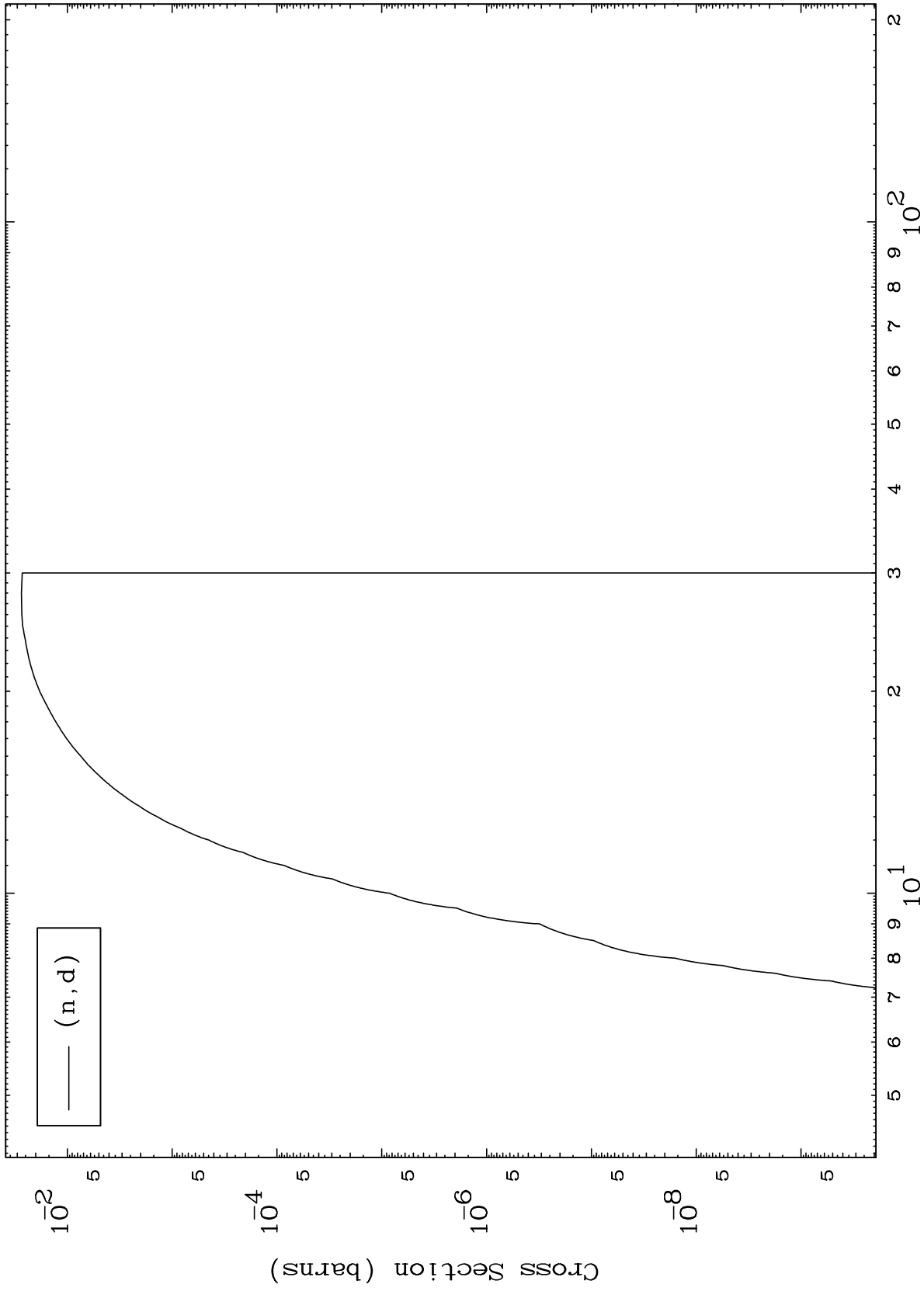
Incident Energy (MeV)

54-Xe-123

MAT 5422

(n,d) Levels
293 Kelvin Cross Sections

54-Xe-123



11

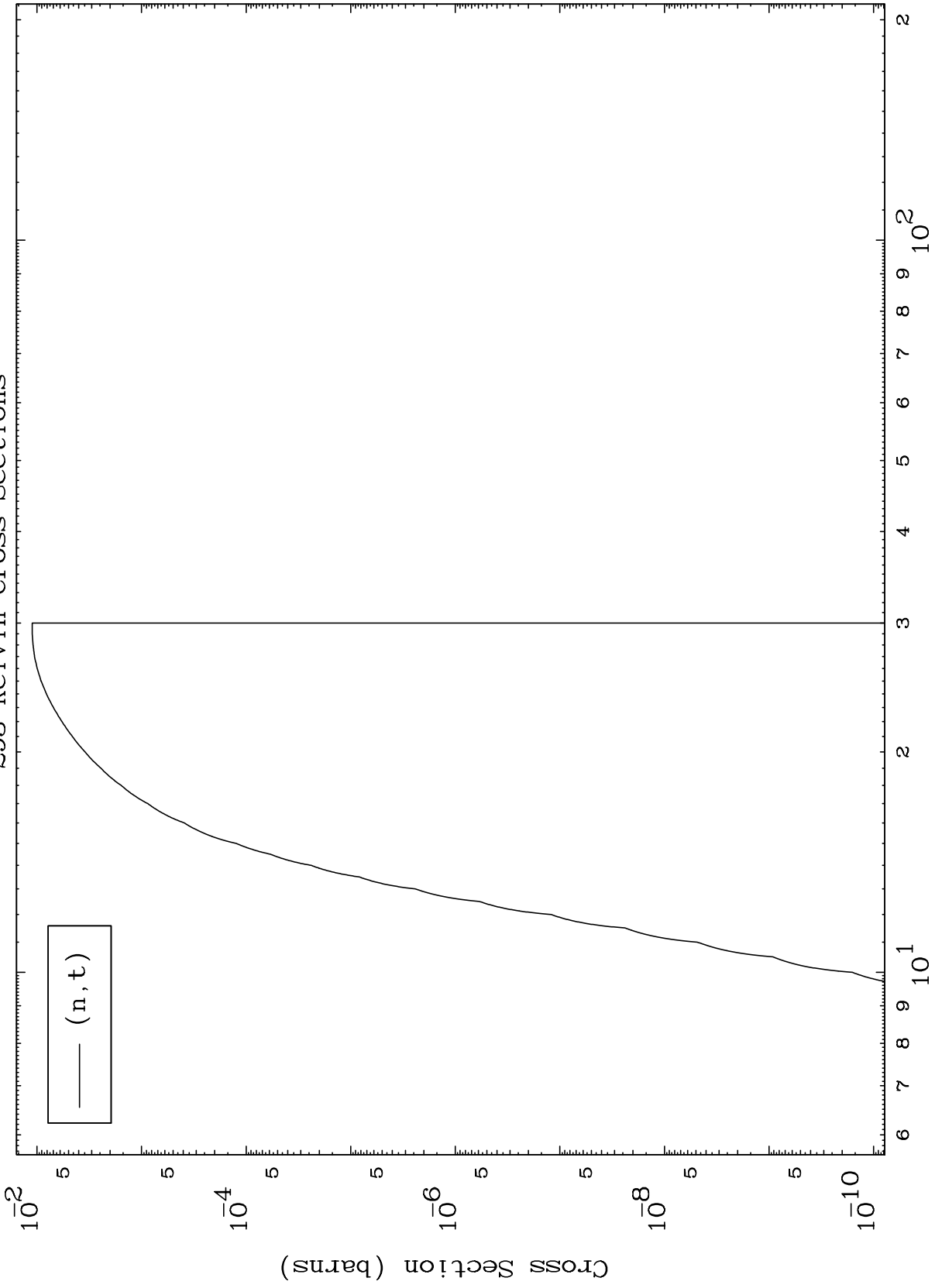
Incident Energy (MeV)

54-Xe-123

MAT 5422

(n,t) Levels
293 Kelvin Cross Sections

54-Xe-123



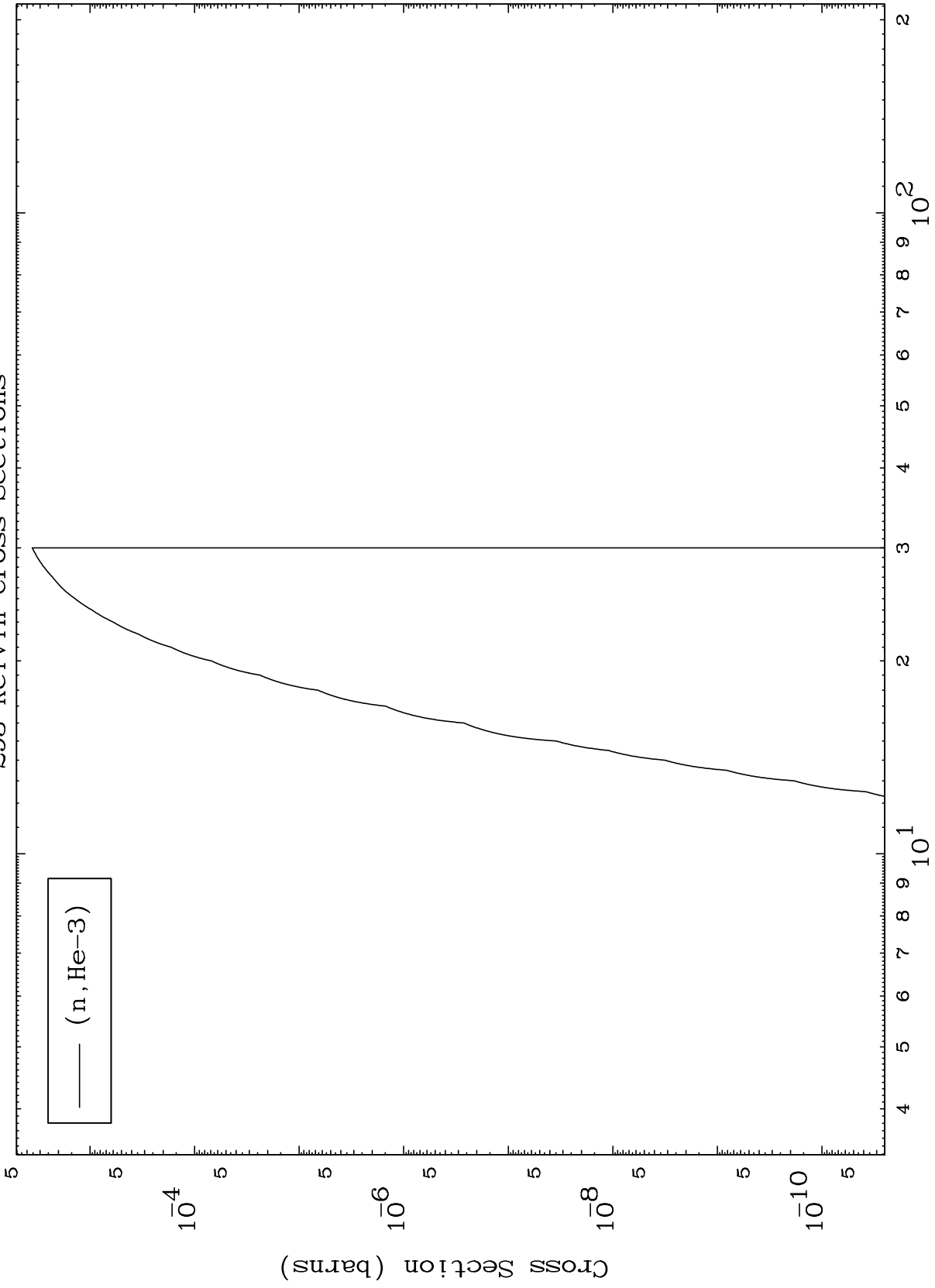
12

54-Xe-123

MAT 5422

(n,He3) Levels
293 Kelvin Cross Sections

54-Xe-123



13

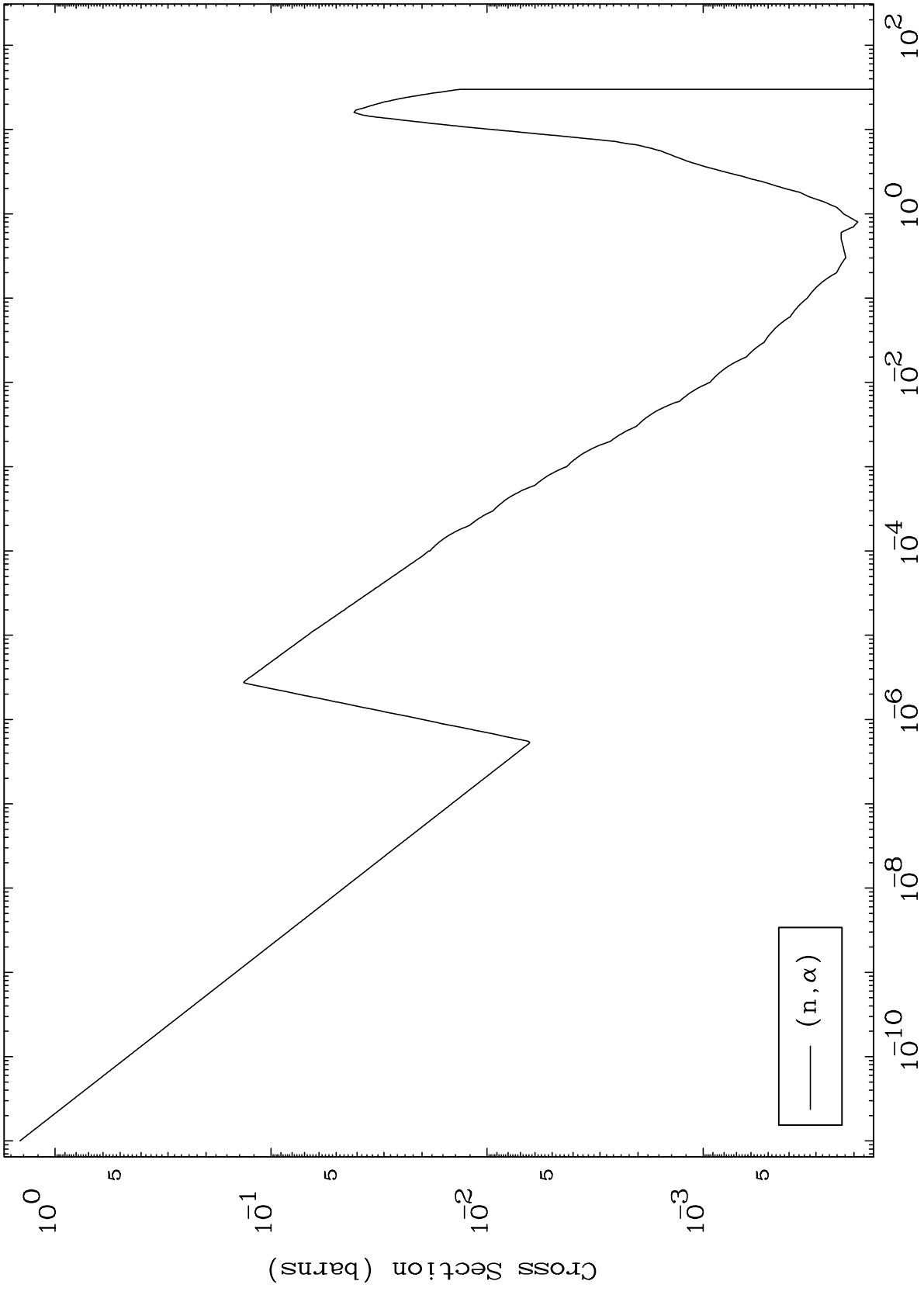
Incident Energy (MeV)

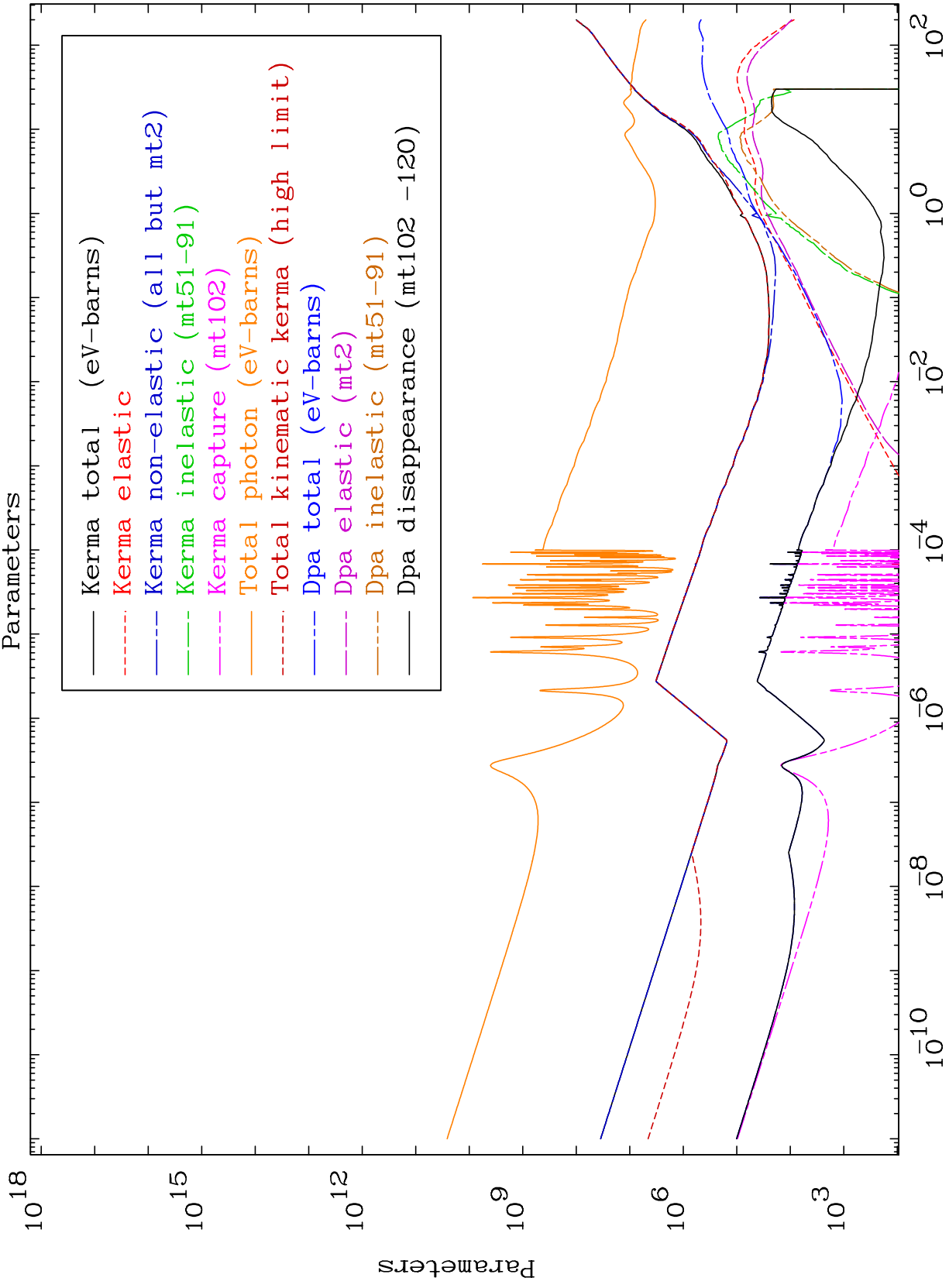
54-Xe-123

MAT 5422

(n,α) Levels
293 Kelvin Cross Sections

54-Xe-123

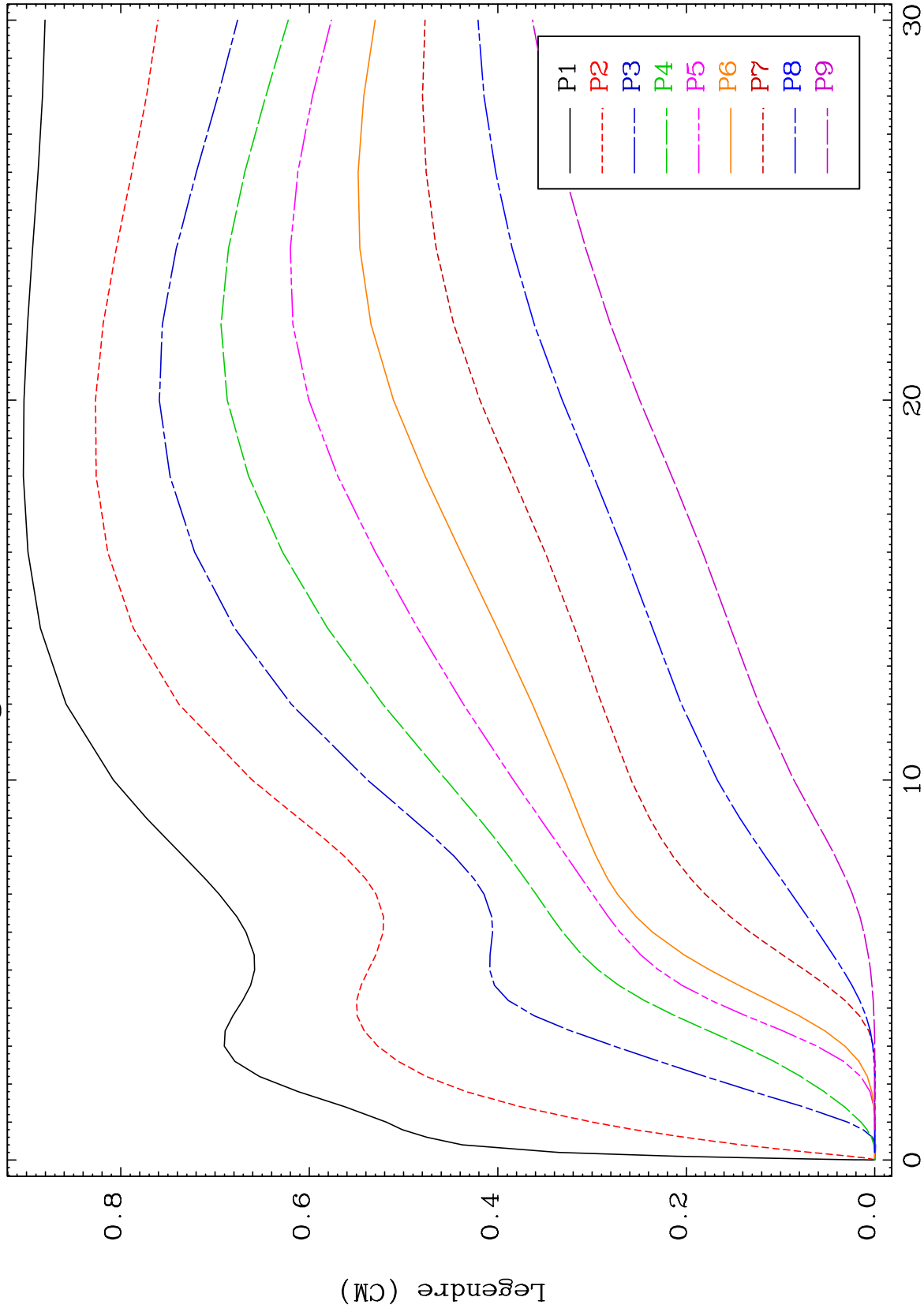




MAT 5422

Elastic Legendre Coefficients

54-Xe-123



16

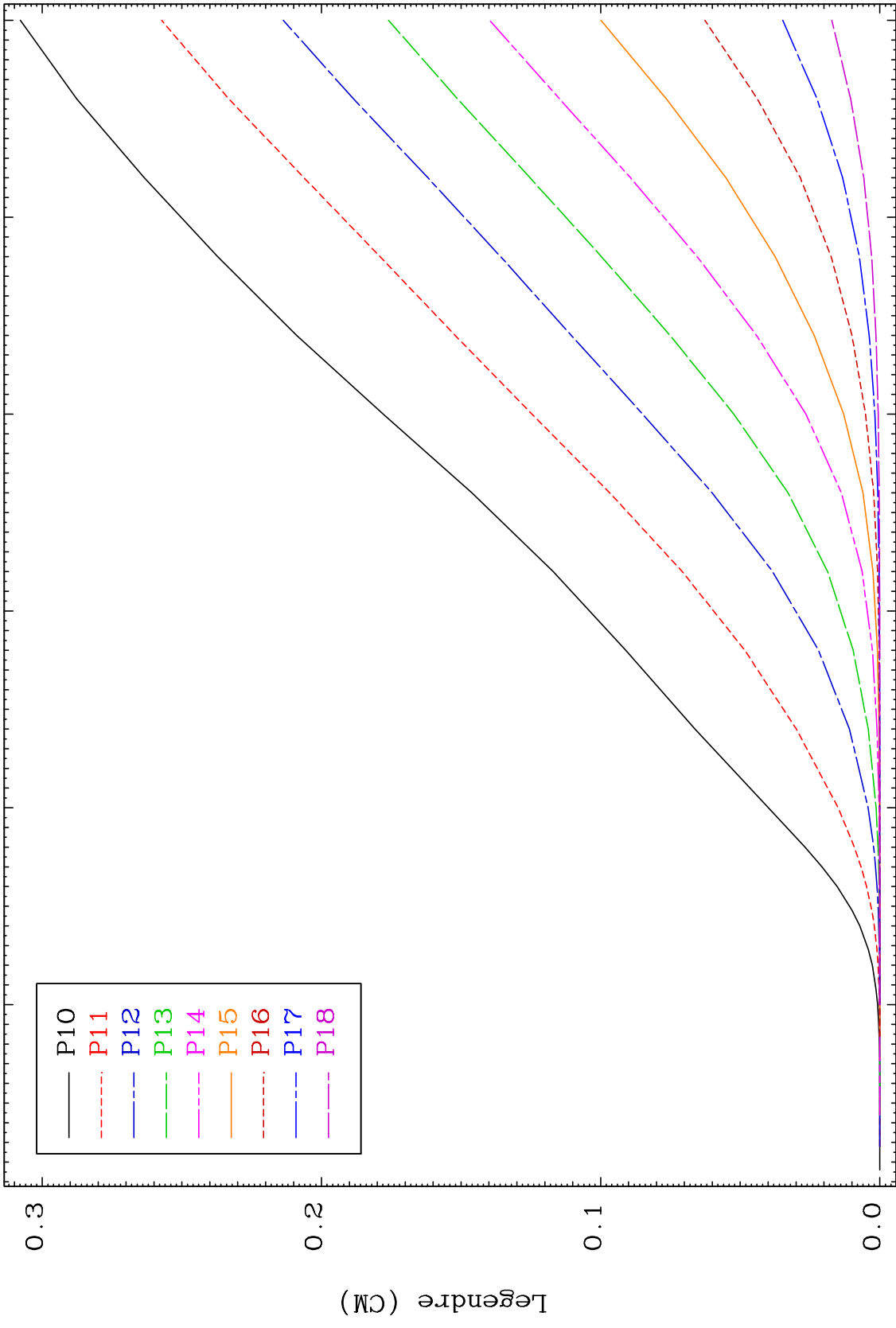
Incident Energy (MeV)

54-Xe-123

MAT 5422

Elastic Legendre Coefficients

54-Xe-123



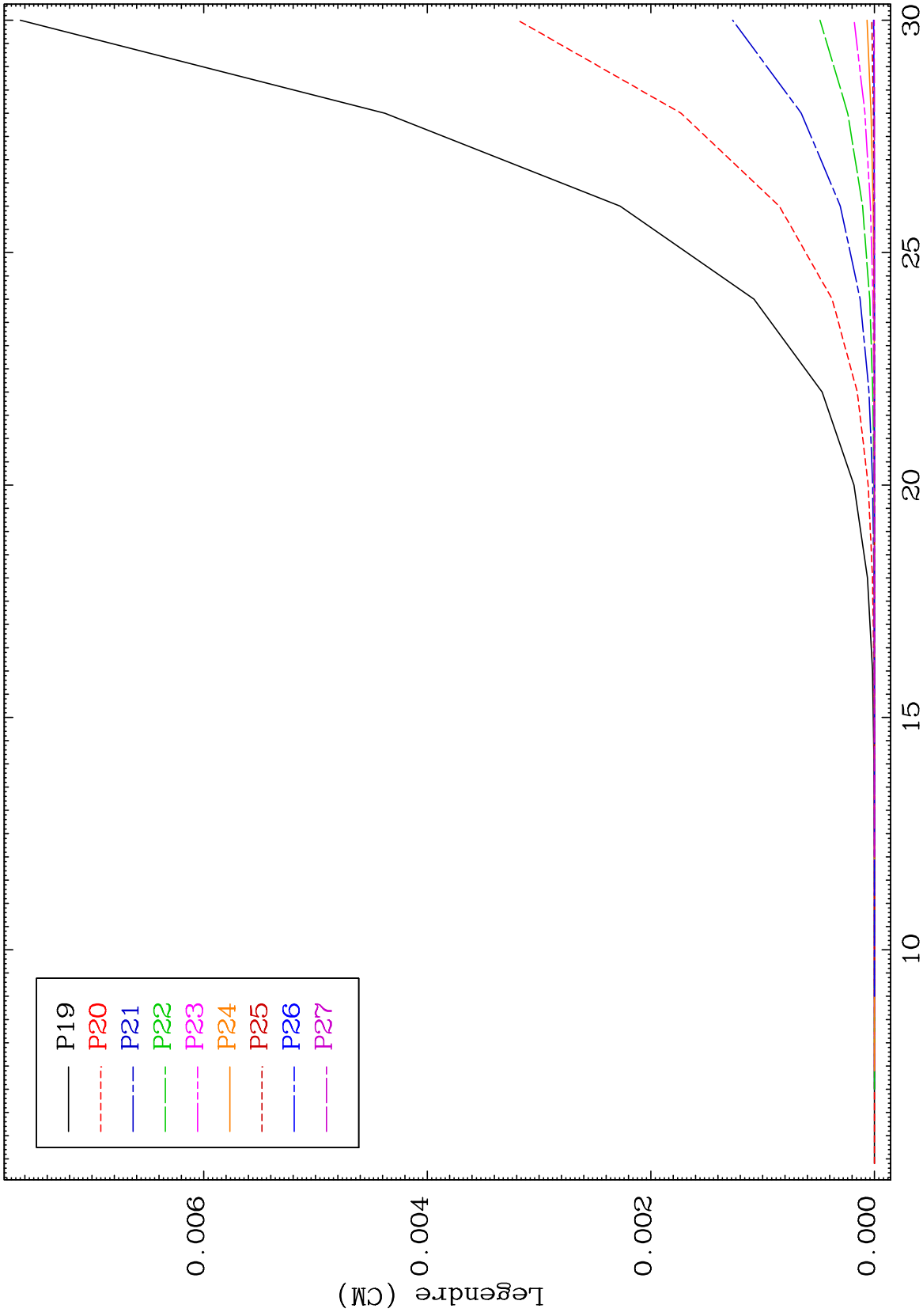
17

54-Xe-123

MAT 5422

Elastic Legendre Coefficients

54-Xe-123



18

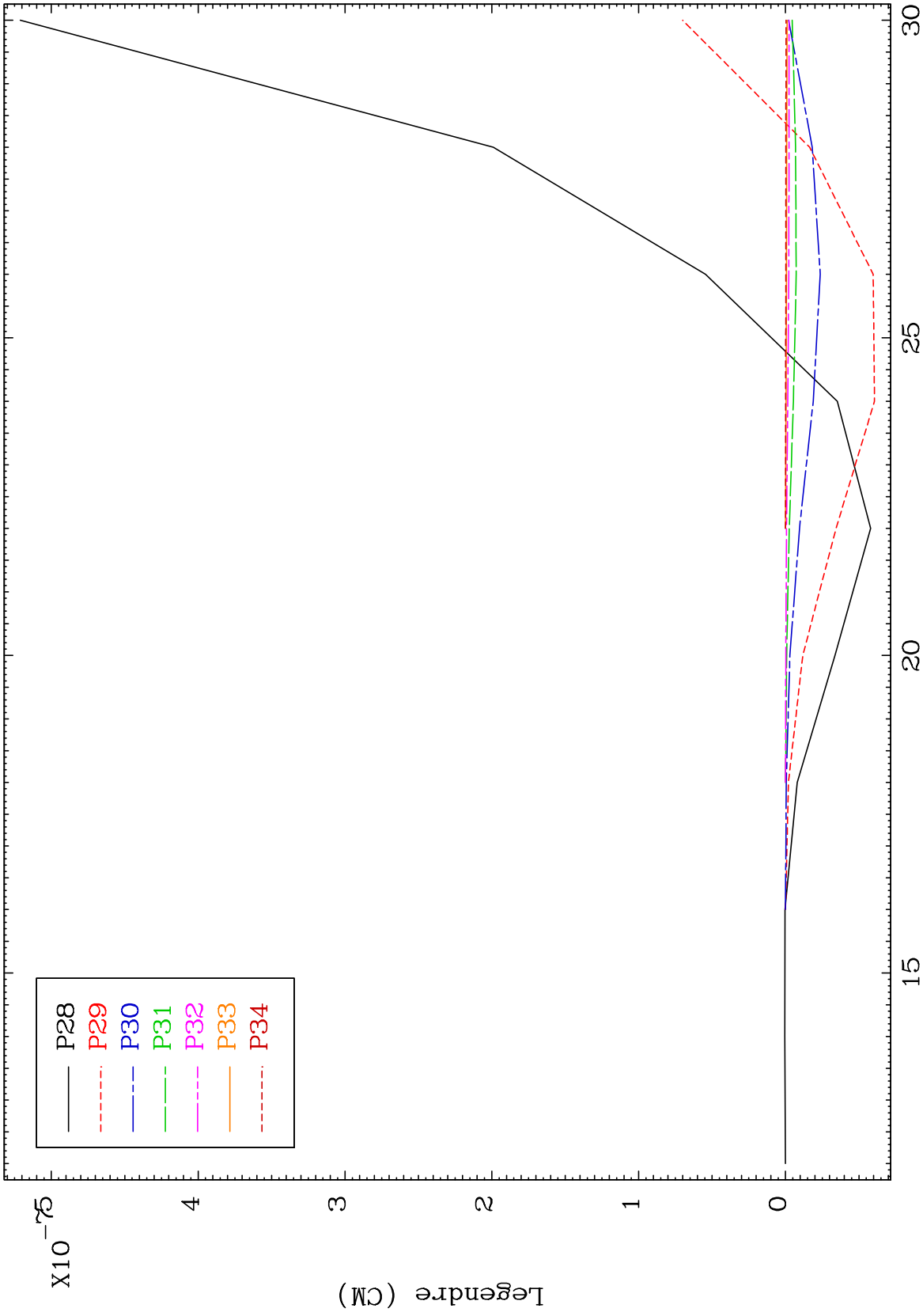
Incident Energy (MeV)

54-Xe-123

MAT 5422

Elastic Legendre Coefficients

54-Xe-123



19

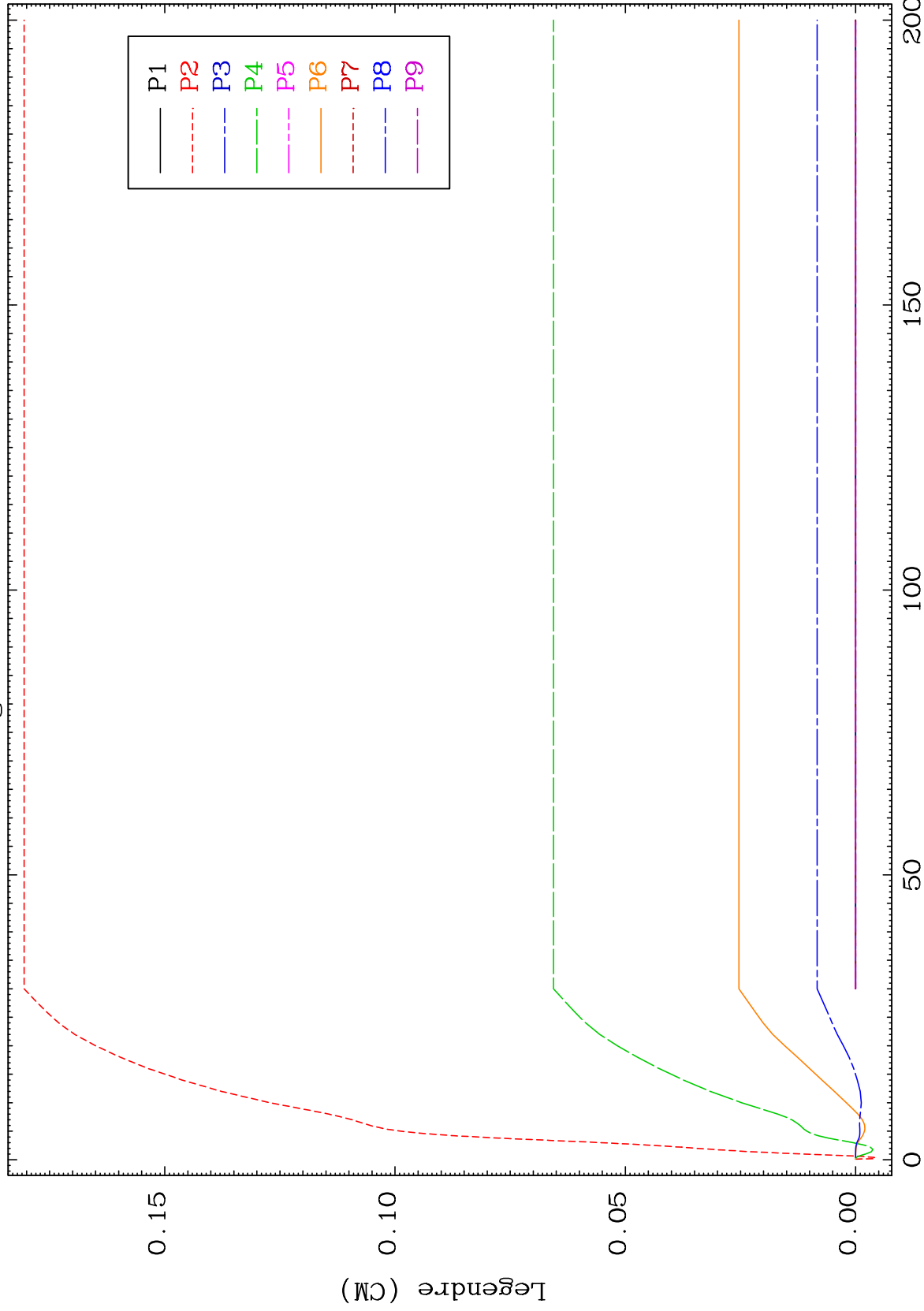
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



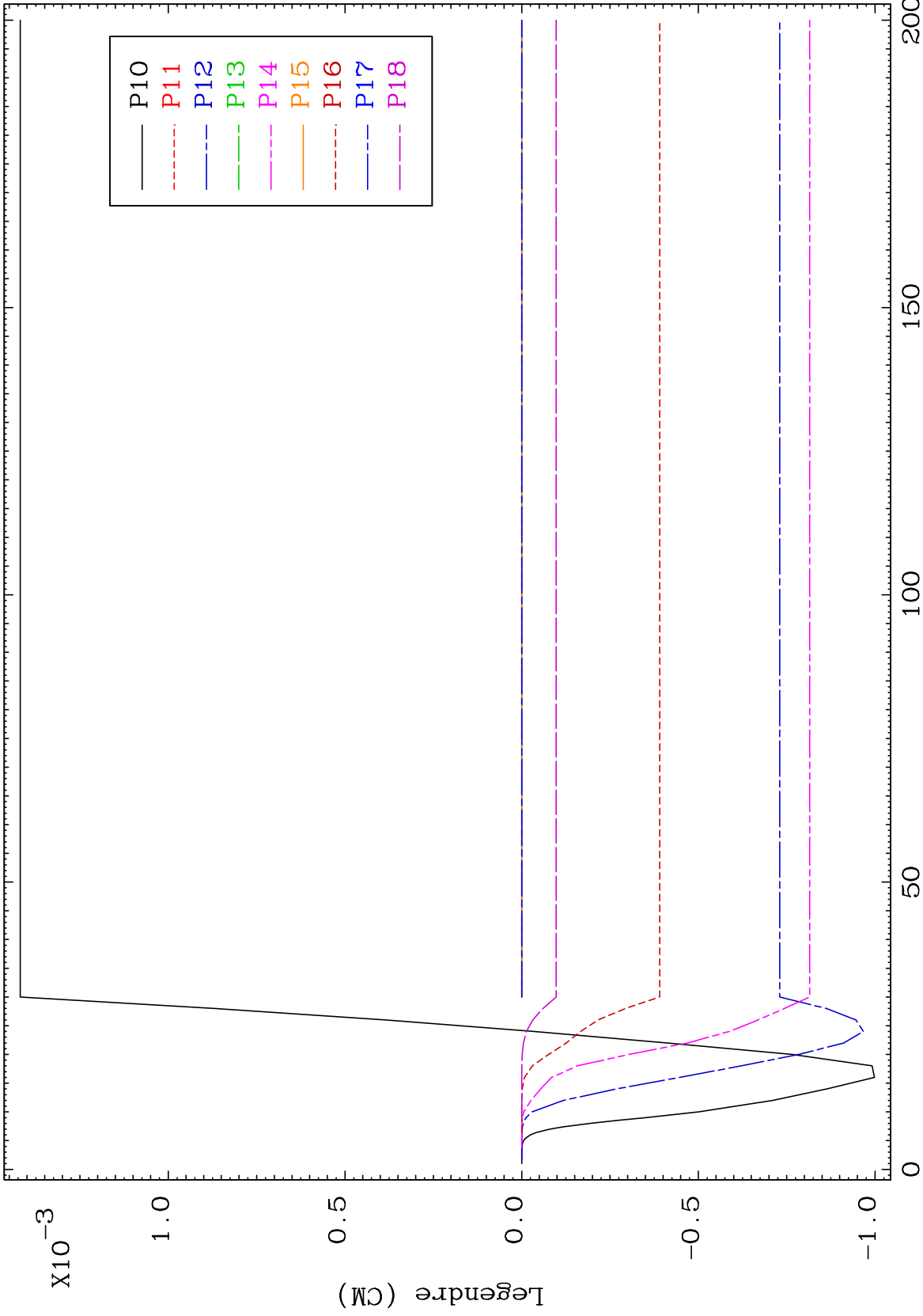
54-Xe-123

Incident Energy (MeV)

MAT 5422

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

54-Xe-123



21

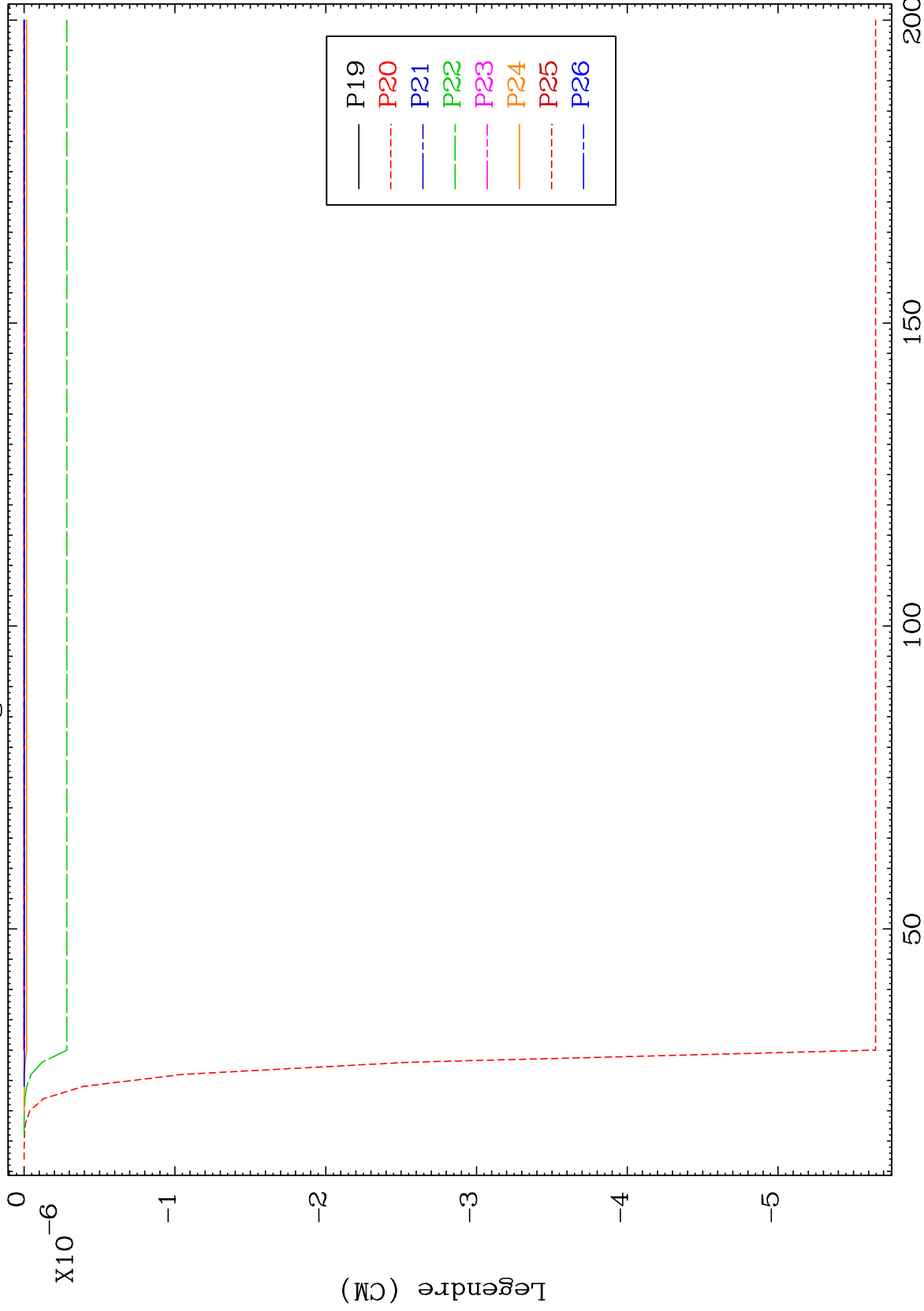
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123

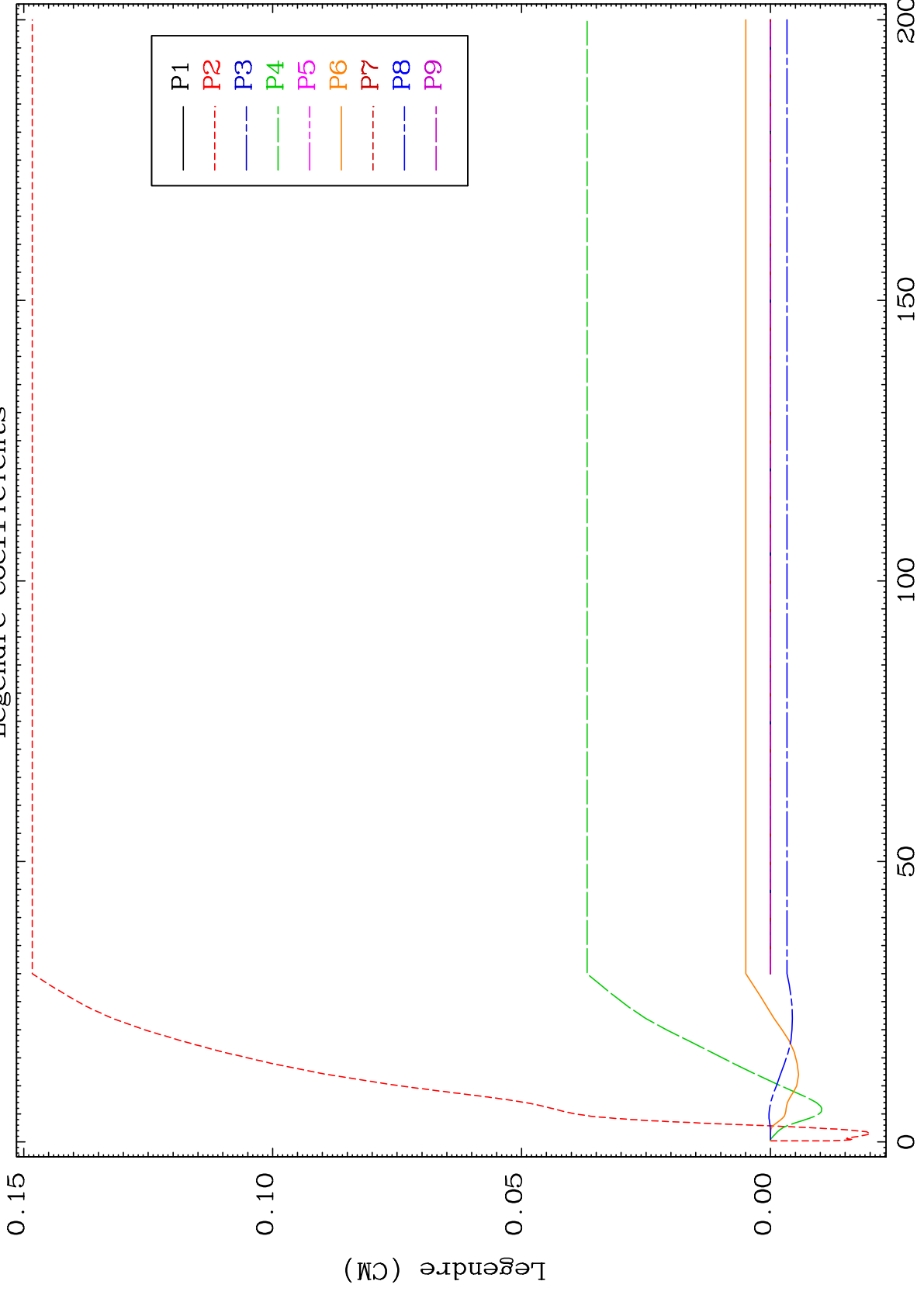


22

Incident Energy (MeV)

54-Xe-123

MAT 5422 MT= 52 (n,n') Level Legendre Coefficients 54-Xe-123

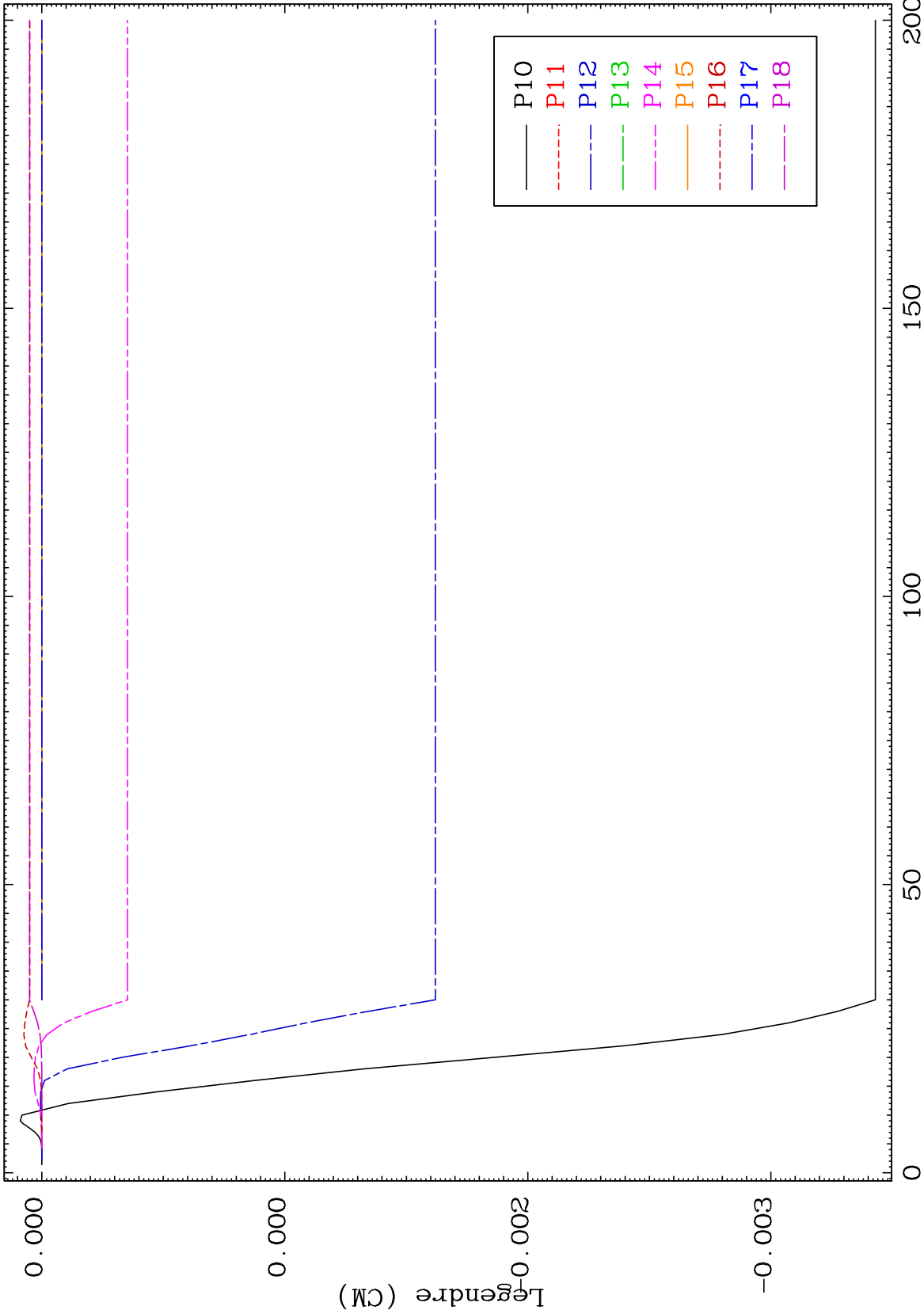


23 54-Xe-123

MAT 5422

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

54-Xe-123

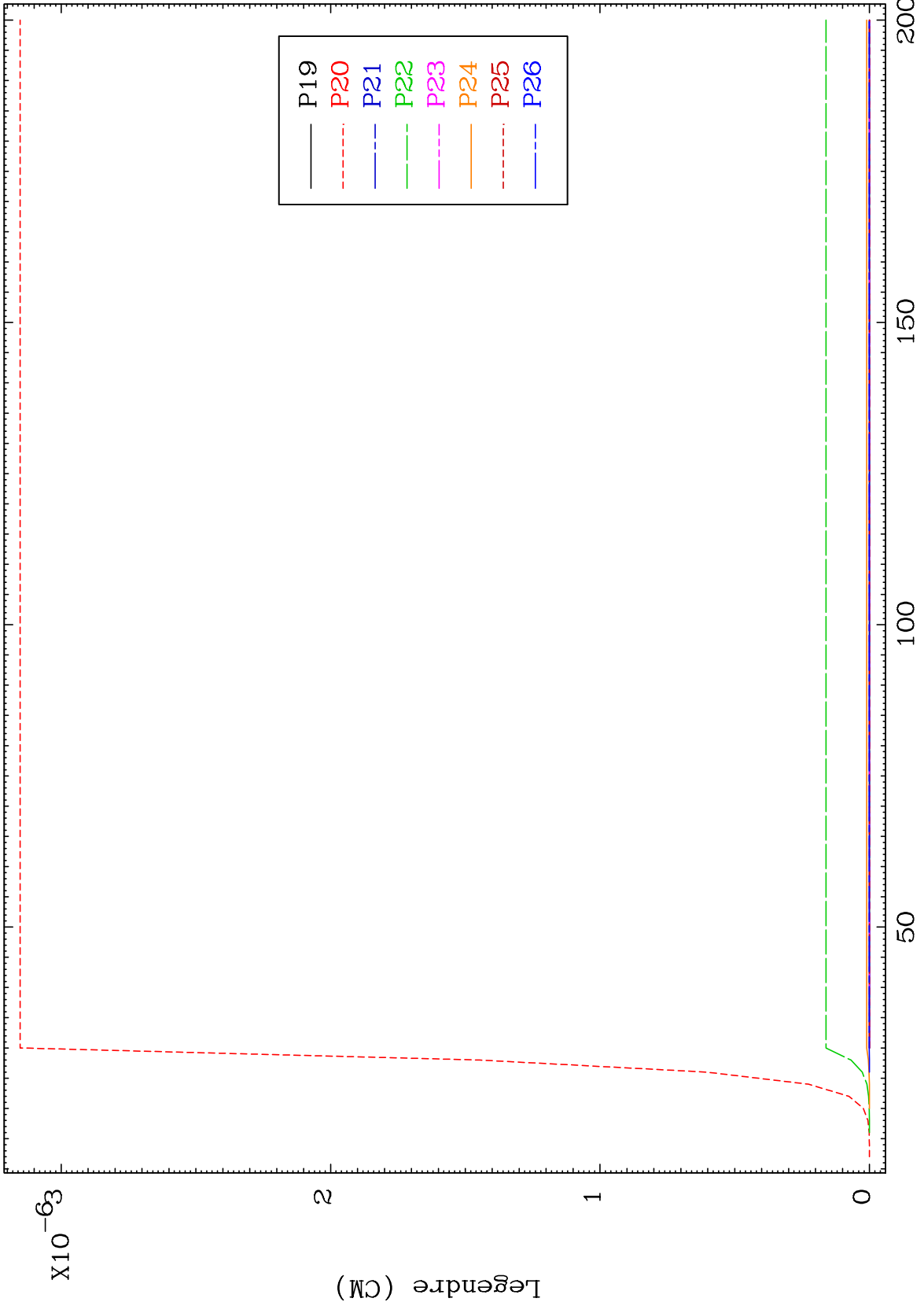


24

Incident Energy (MeV)

54-Xe-123

MAT 5422 MT= 52 (n,n') Level Legendre Coefficients 54-Xe-123

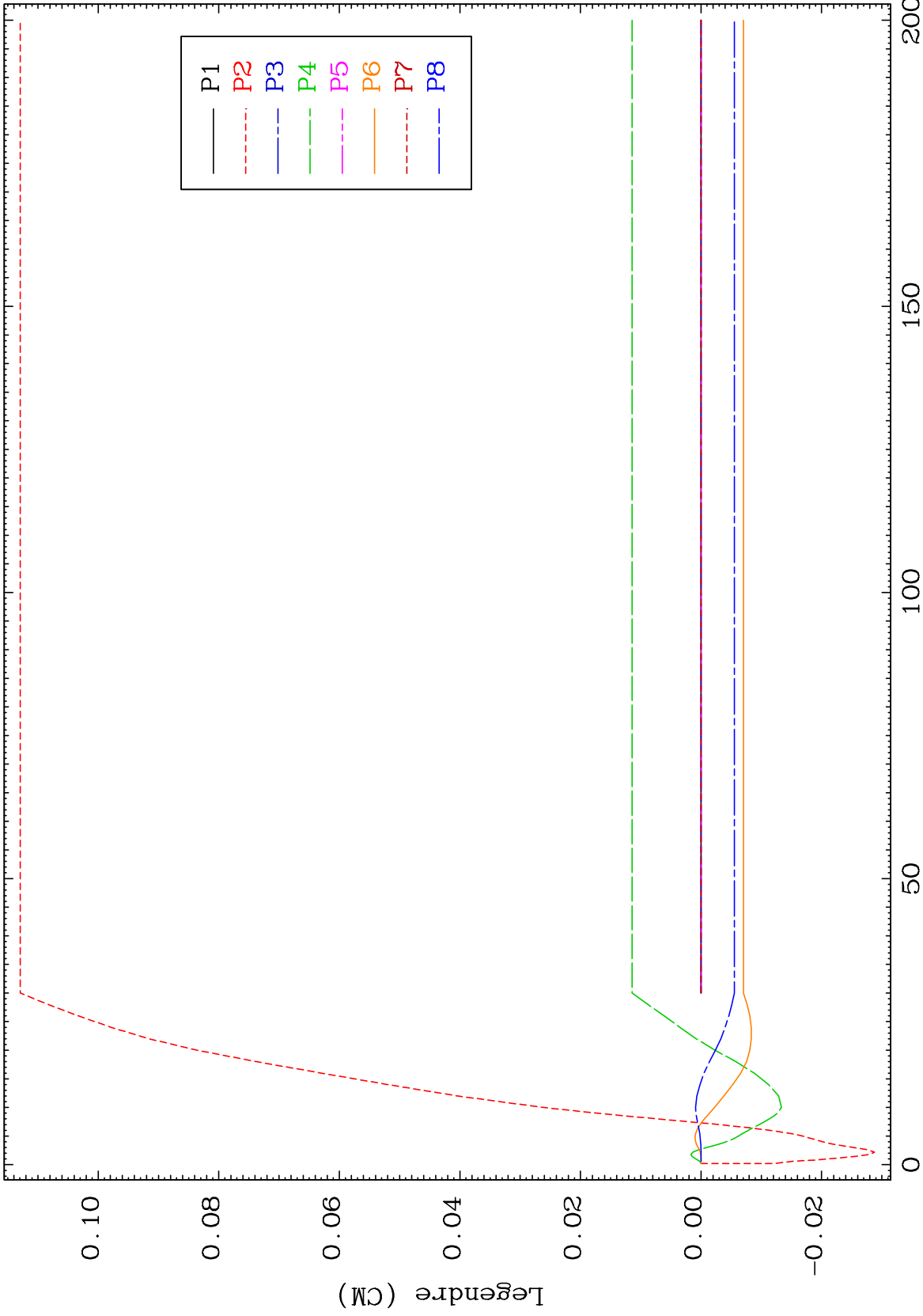


54-Xe-123

MAT 5422

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

54-Xe-123



26

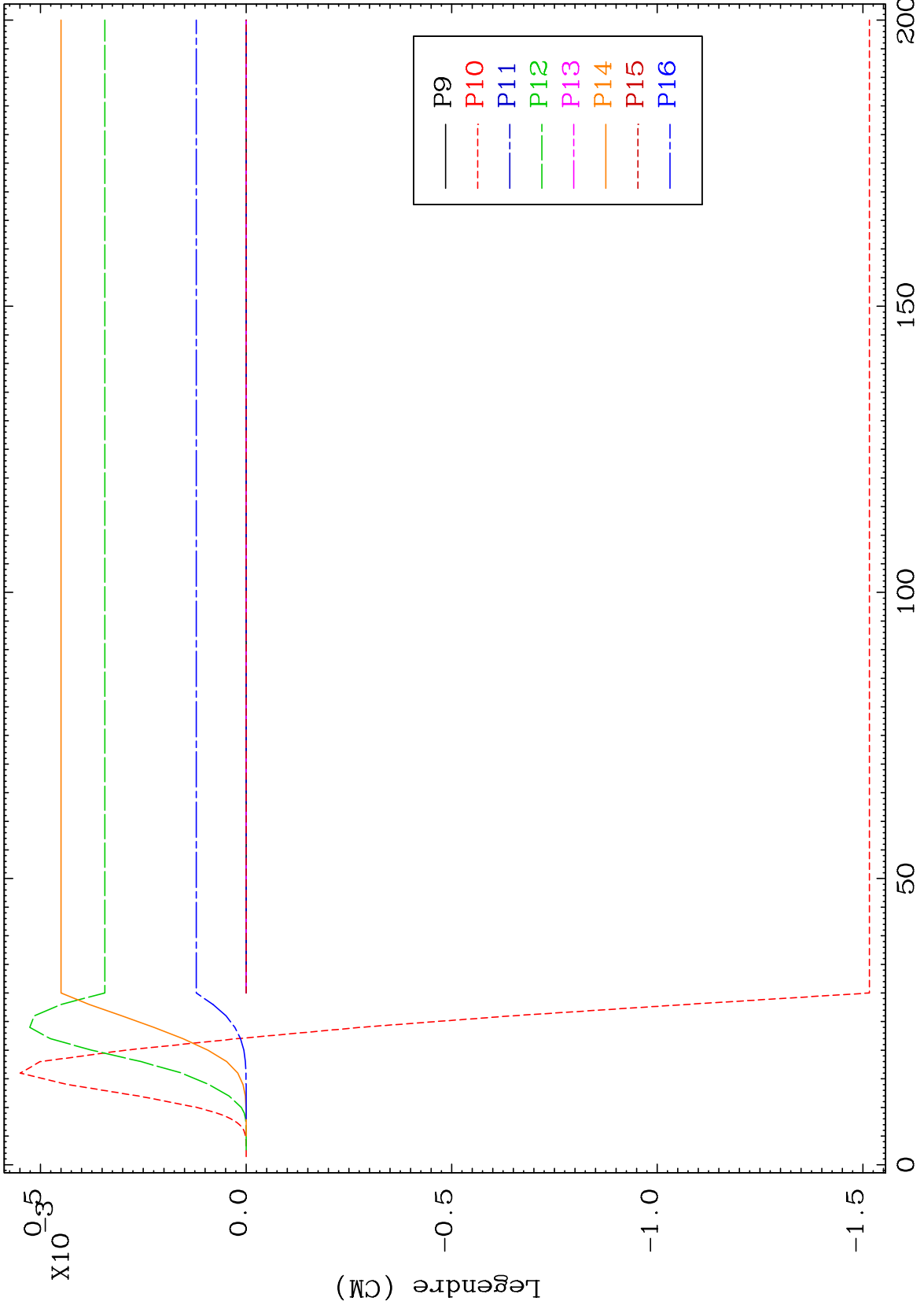
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



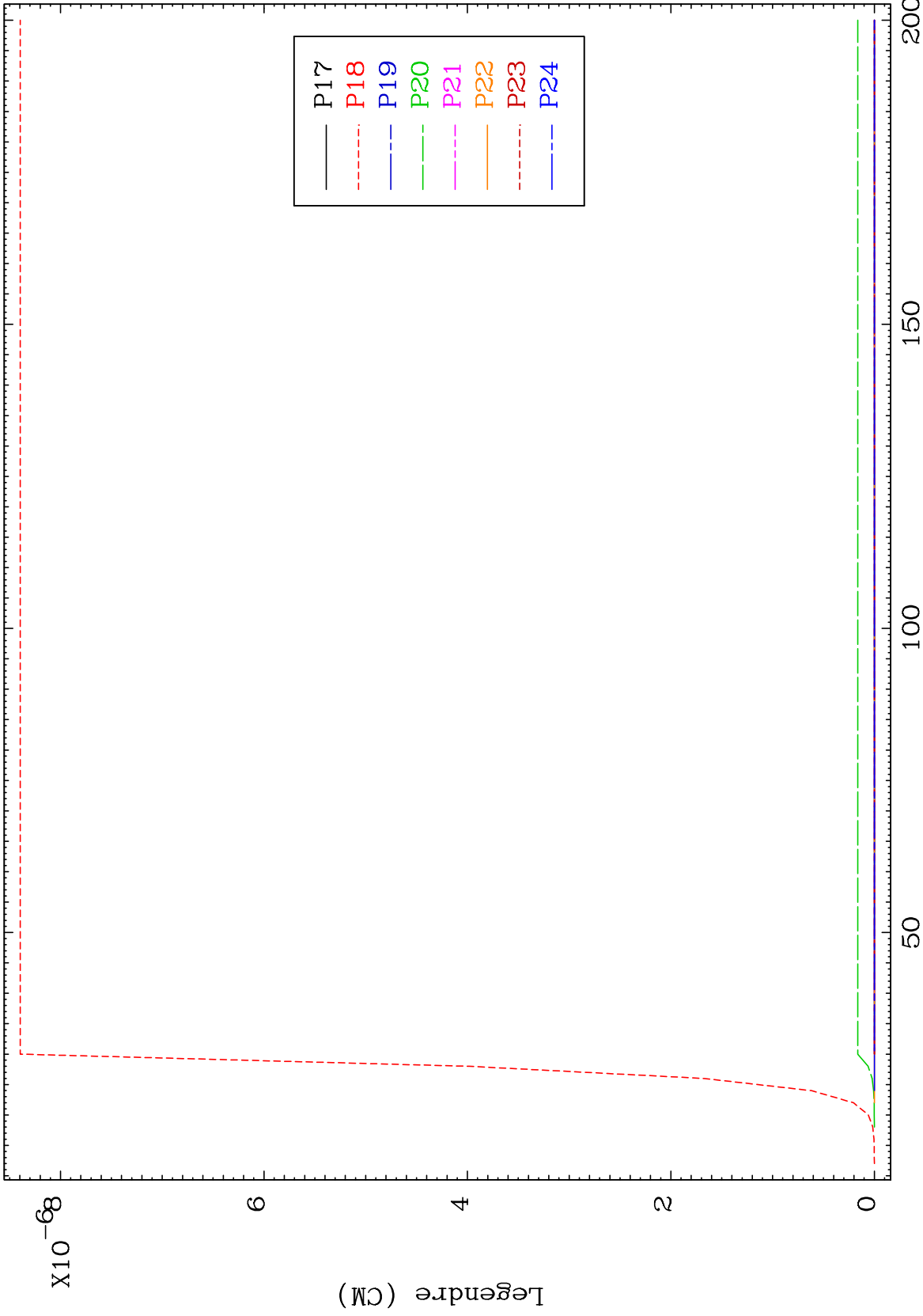
27

54-Xe-123

MAT 5422

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

54-Xe-123



28

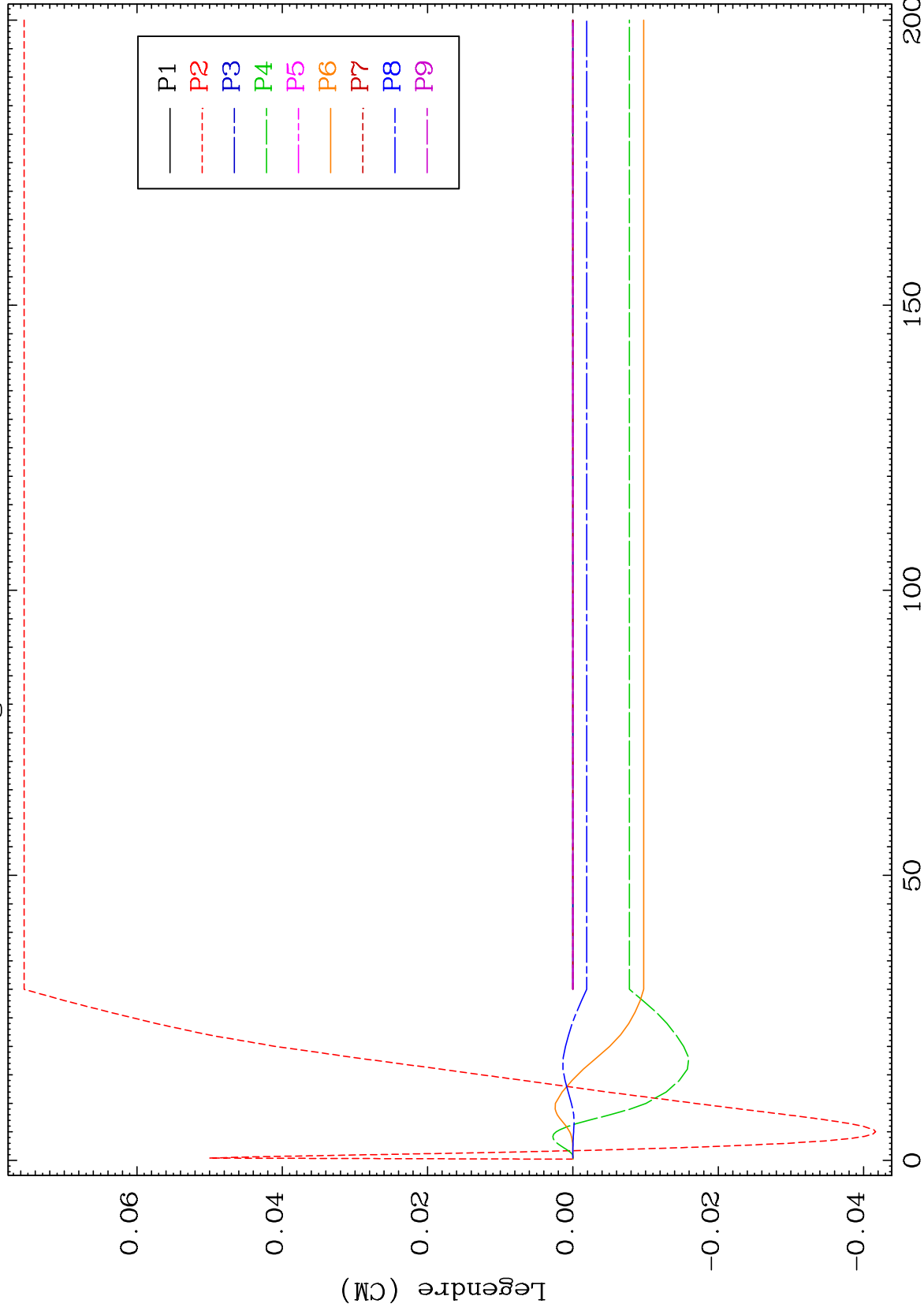
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



29

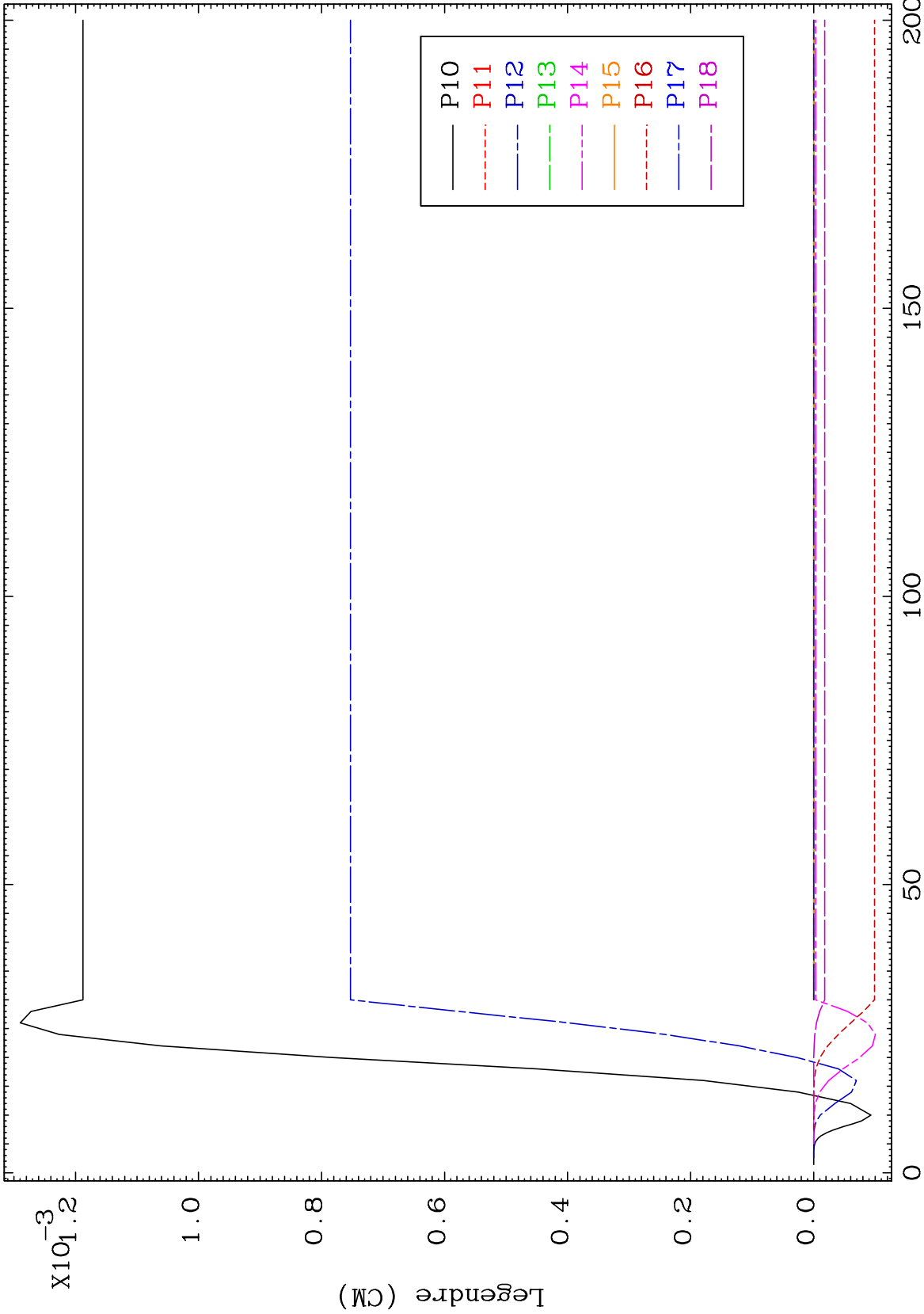
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



30

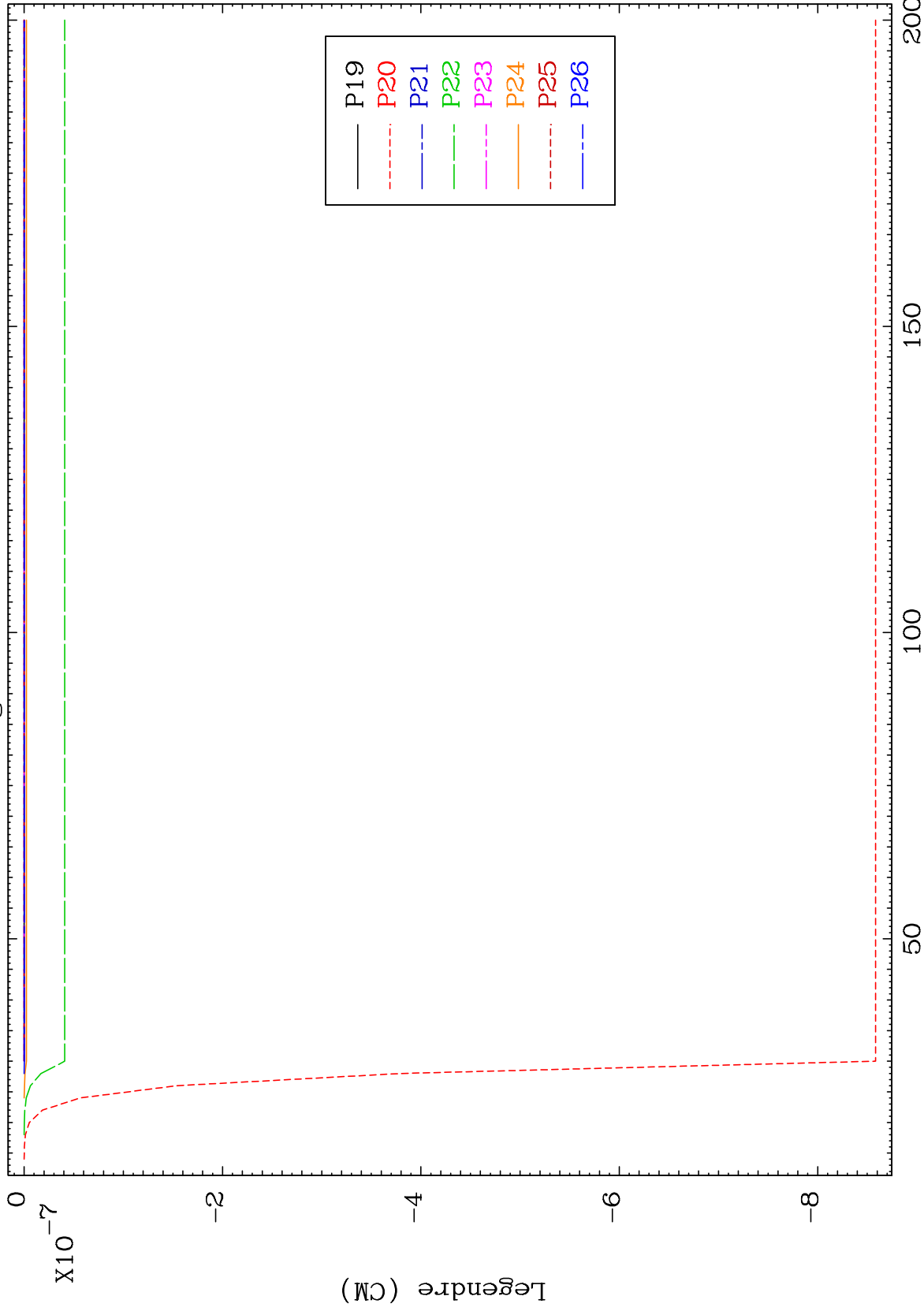
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



31

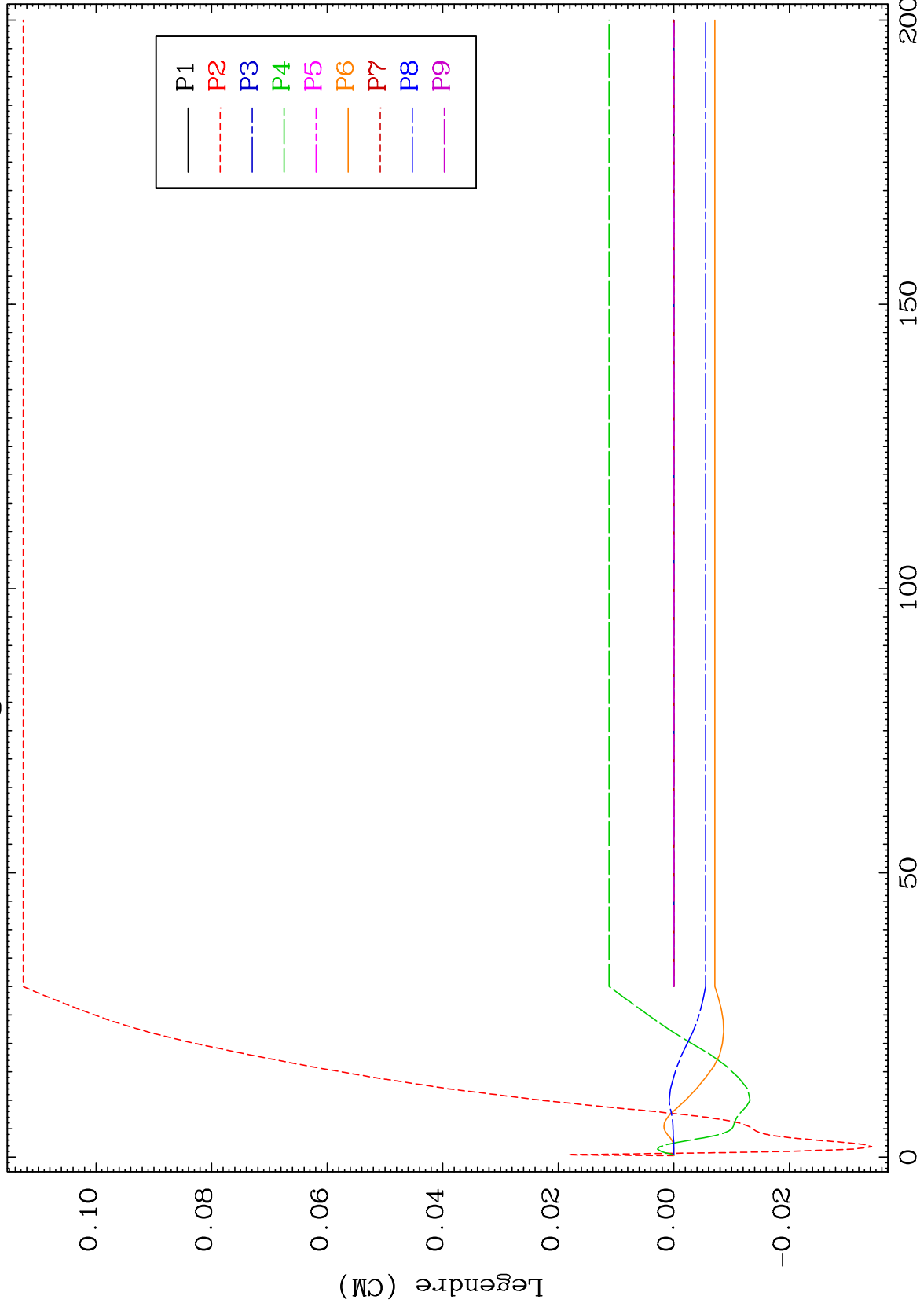
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



32

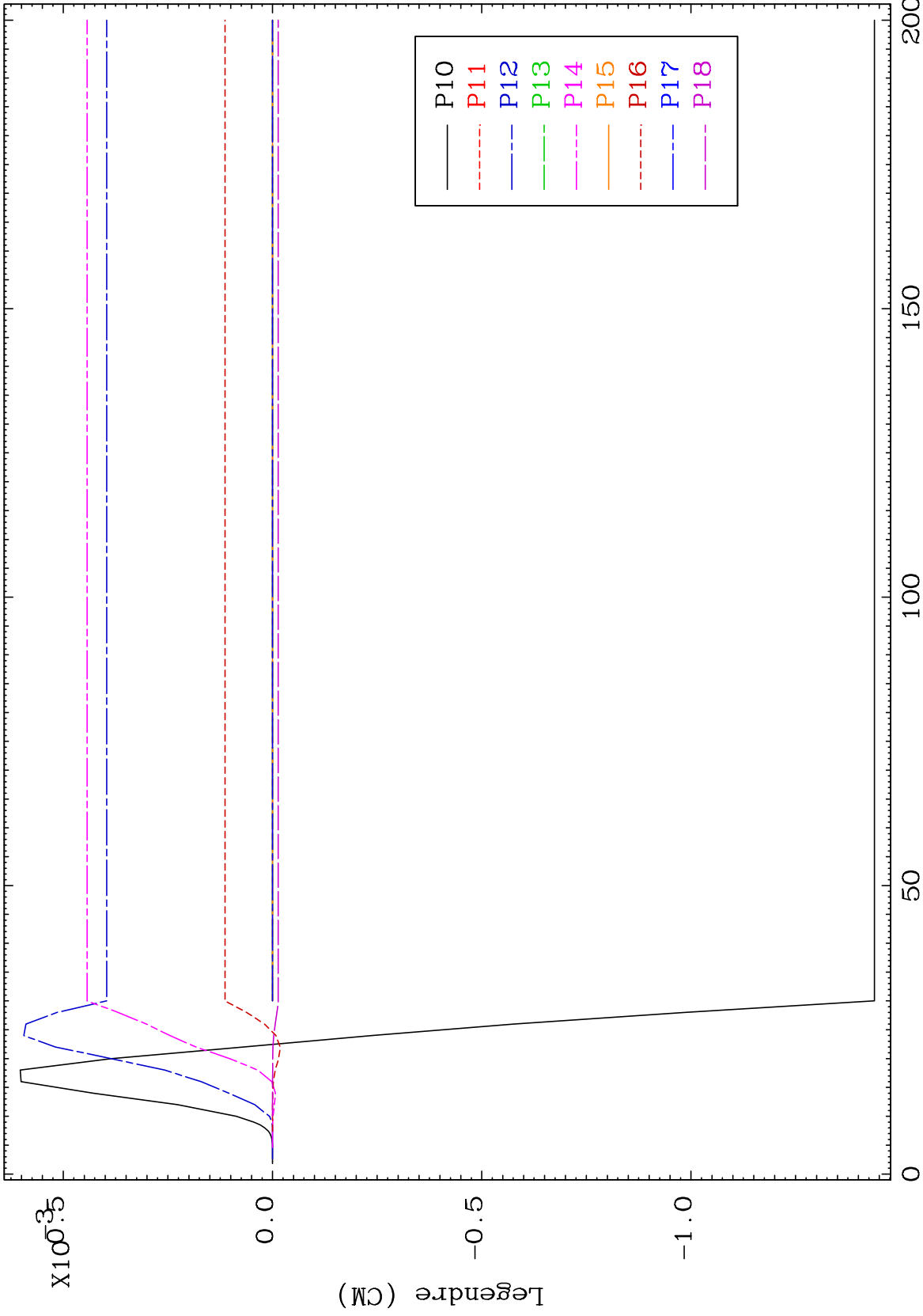
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



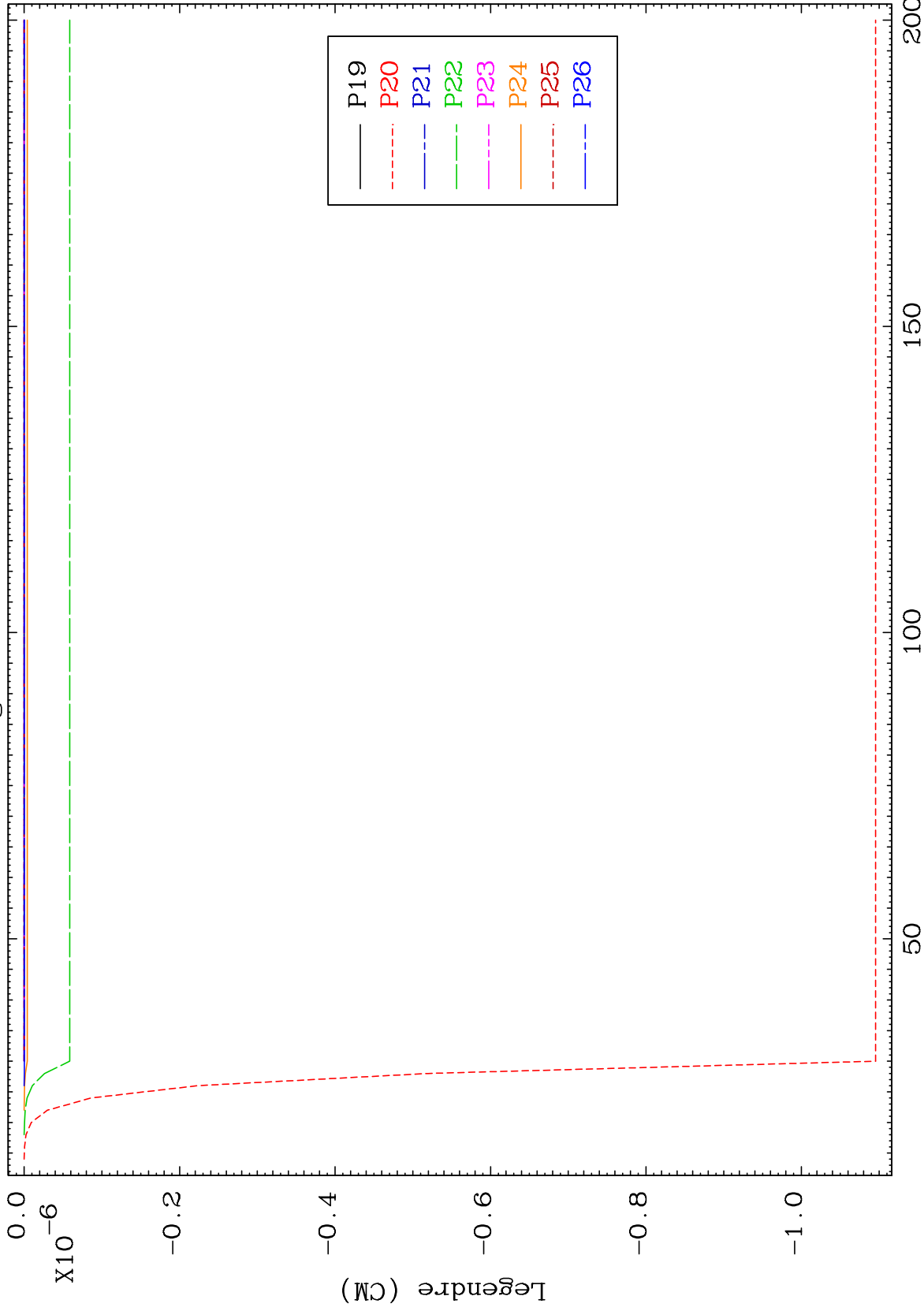
33

54-Xe-123

MAT 5422

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

54-Xe-123



34

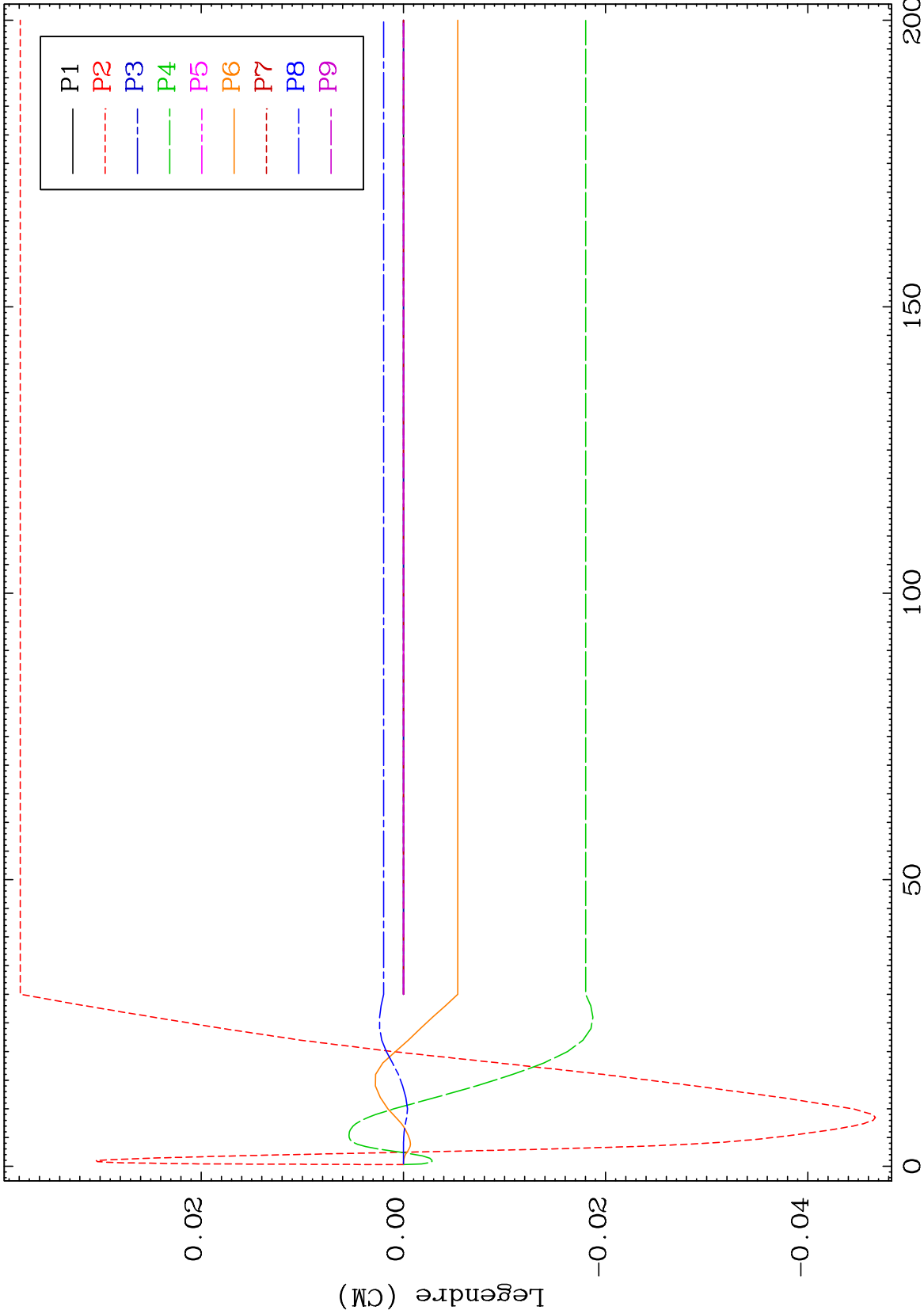
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



54-Xe-123

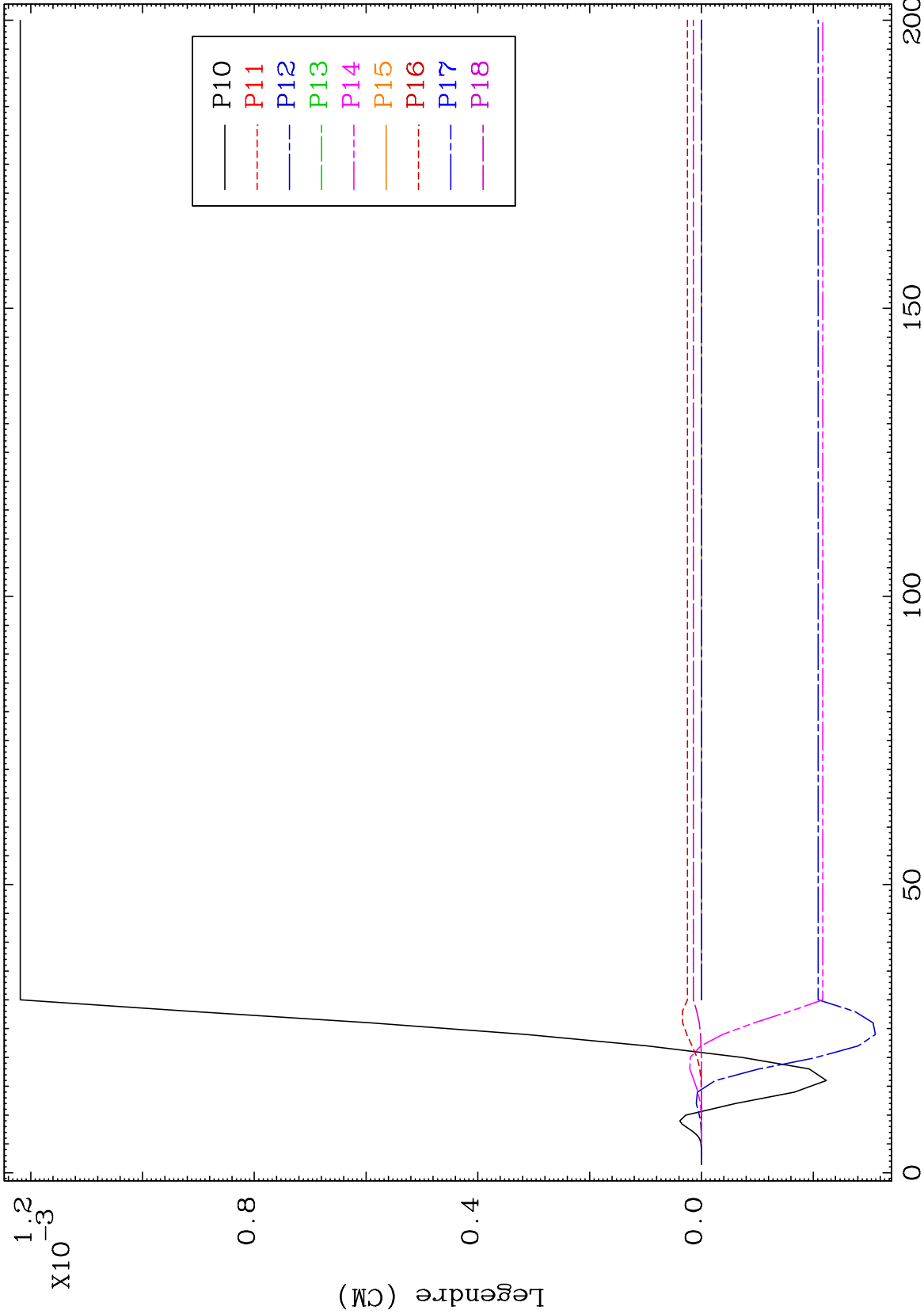
Incident Energy (MeV)

35

MAT 5422

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

54-Xe-123



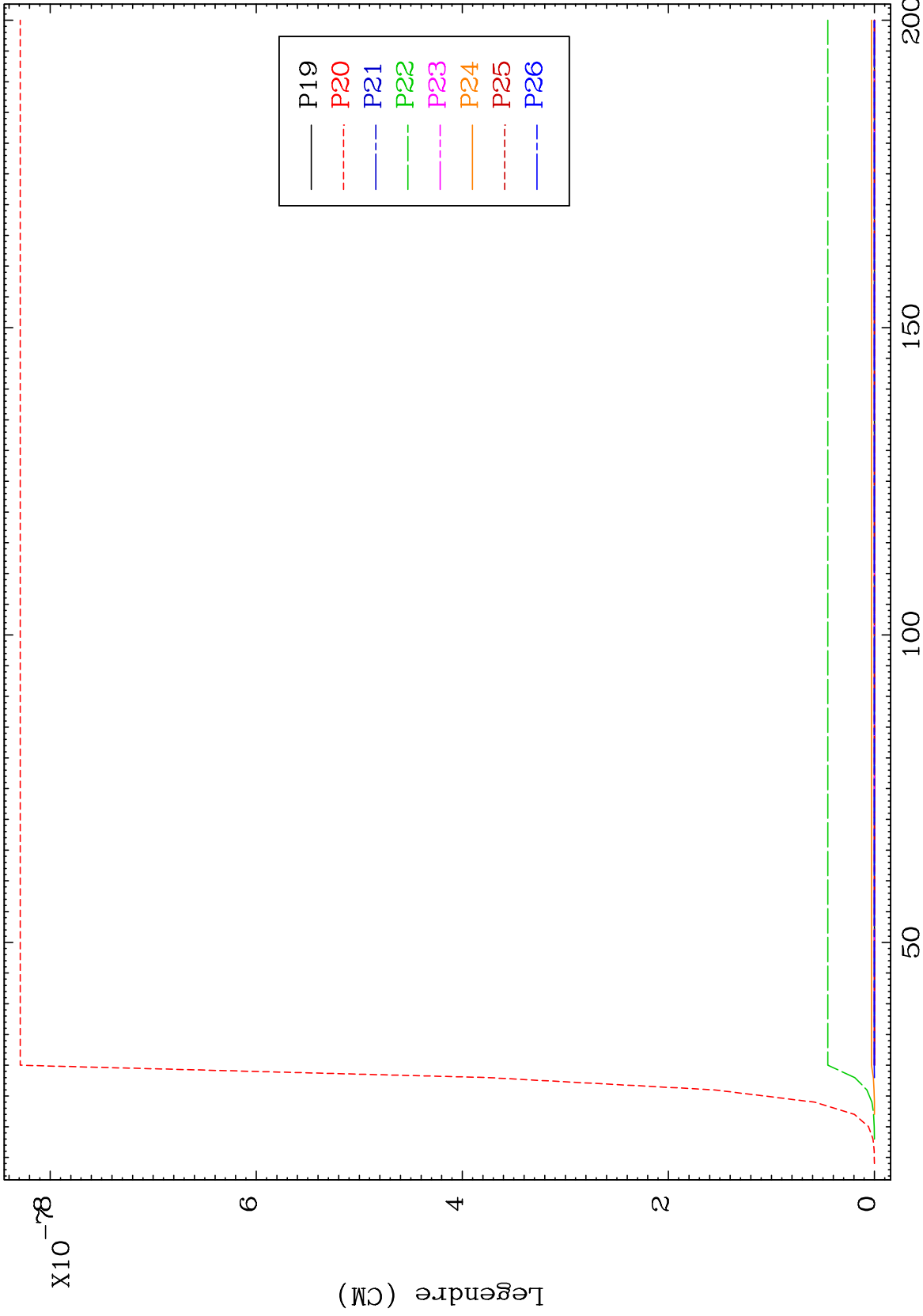
36

54-Xe-123

MAT 5422

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

54-Xe-123

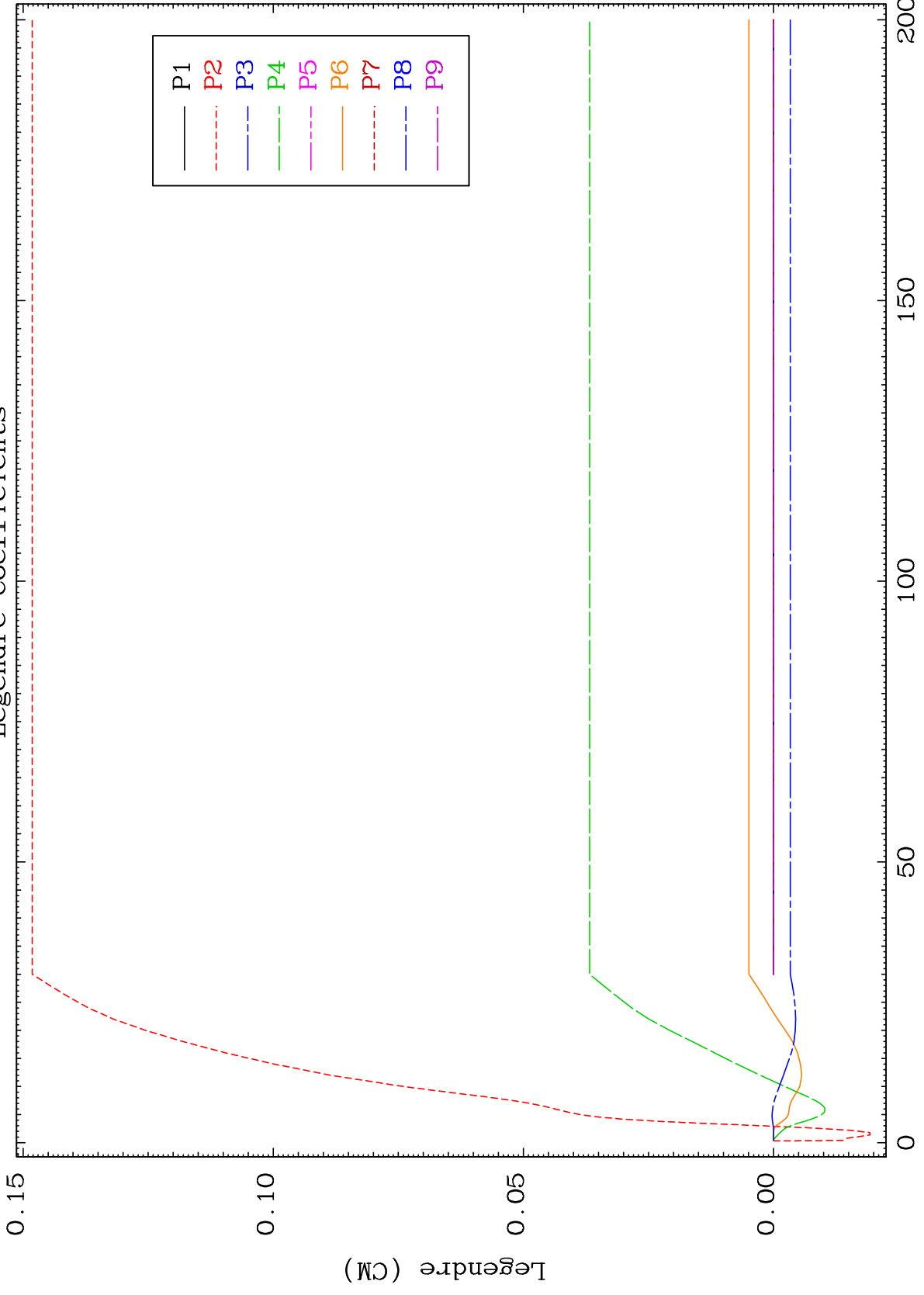


37

Incident Energy (MeV)

54-Xe-123

MAT 5422 MT= 57 (n,n') Level Legendre Coefficients 54-Xe-123

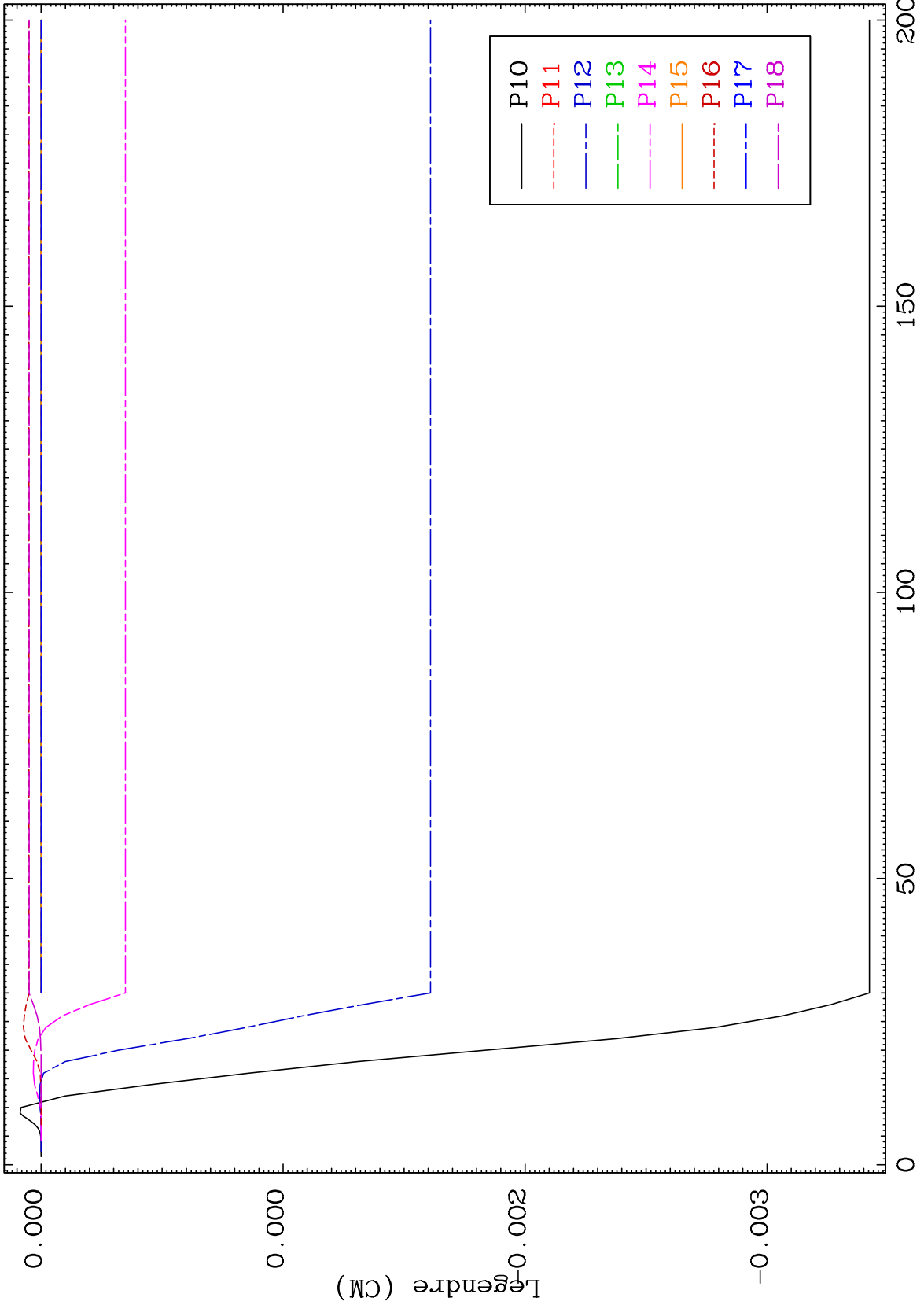


38 54-Xe-123

MAT 5422

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

54-Xe-123



39

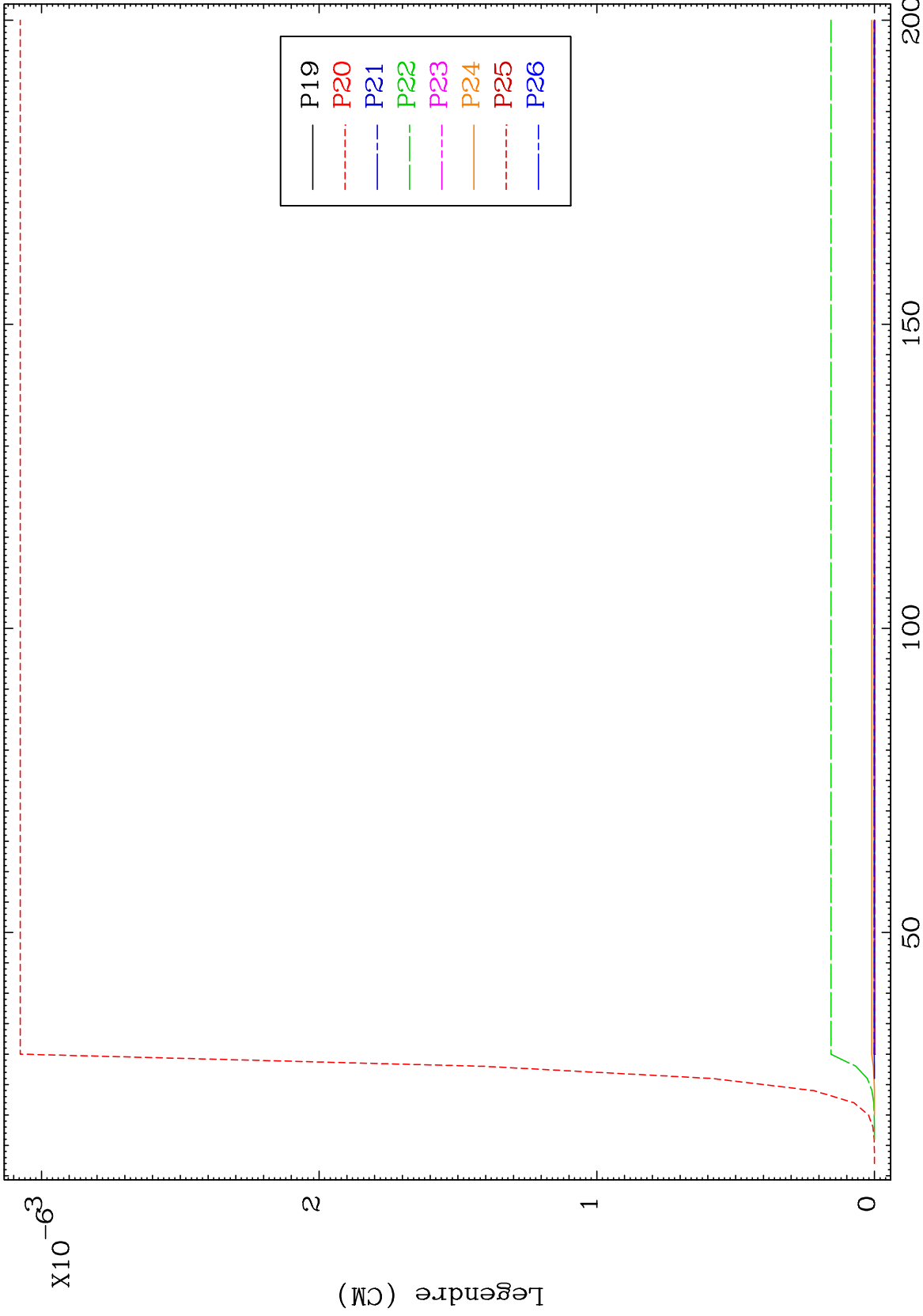
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



40

50

100

150

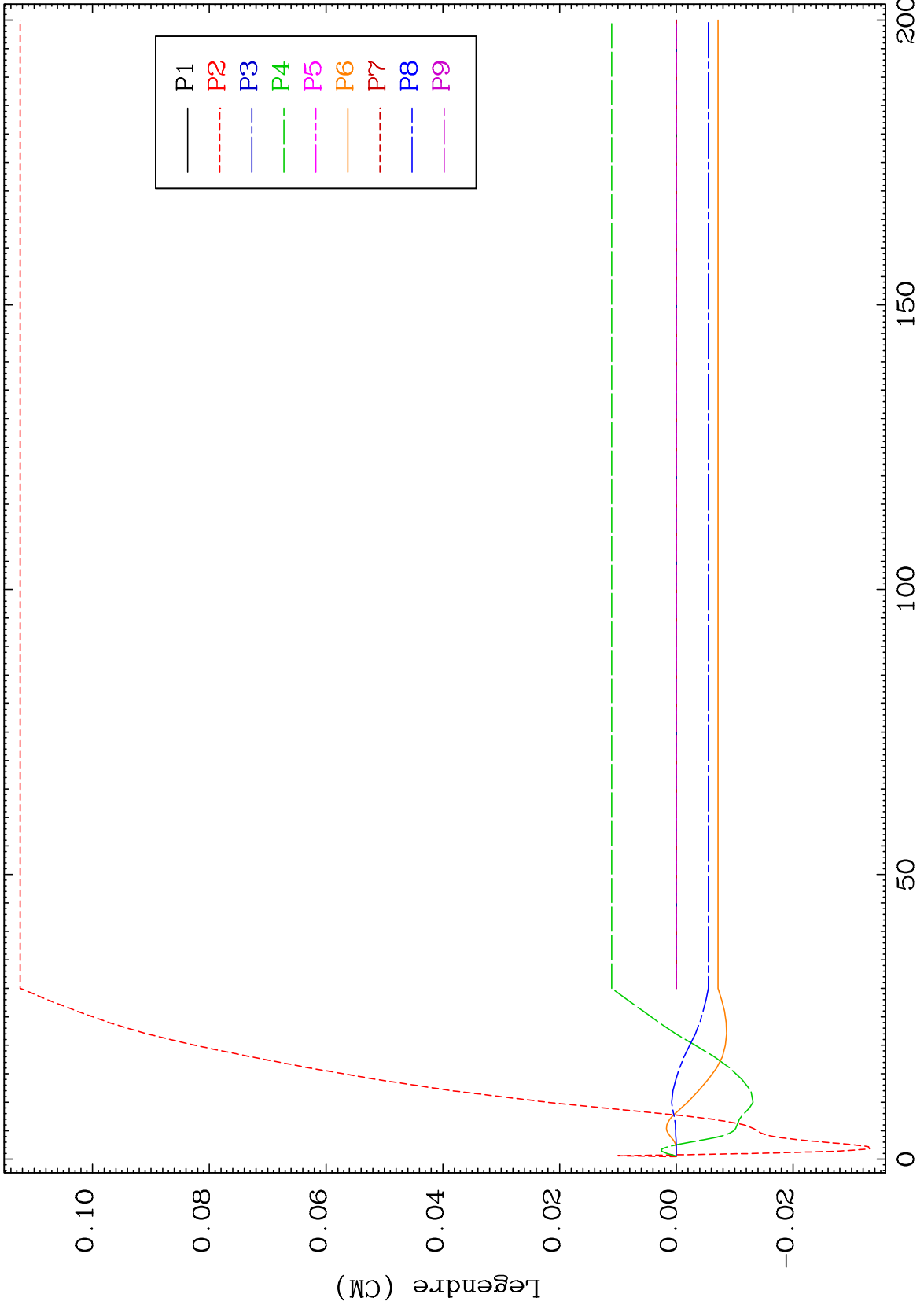
200

54-Xe-123

MAT 5422

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

54-Xe-123



41

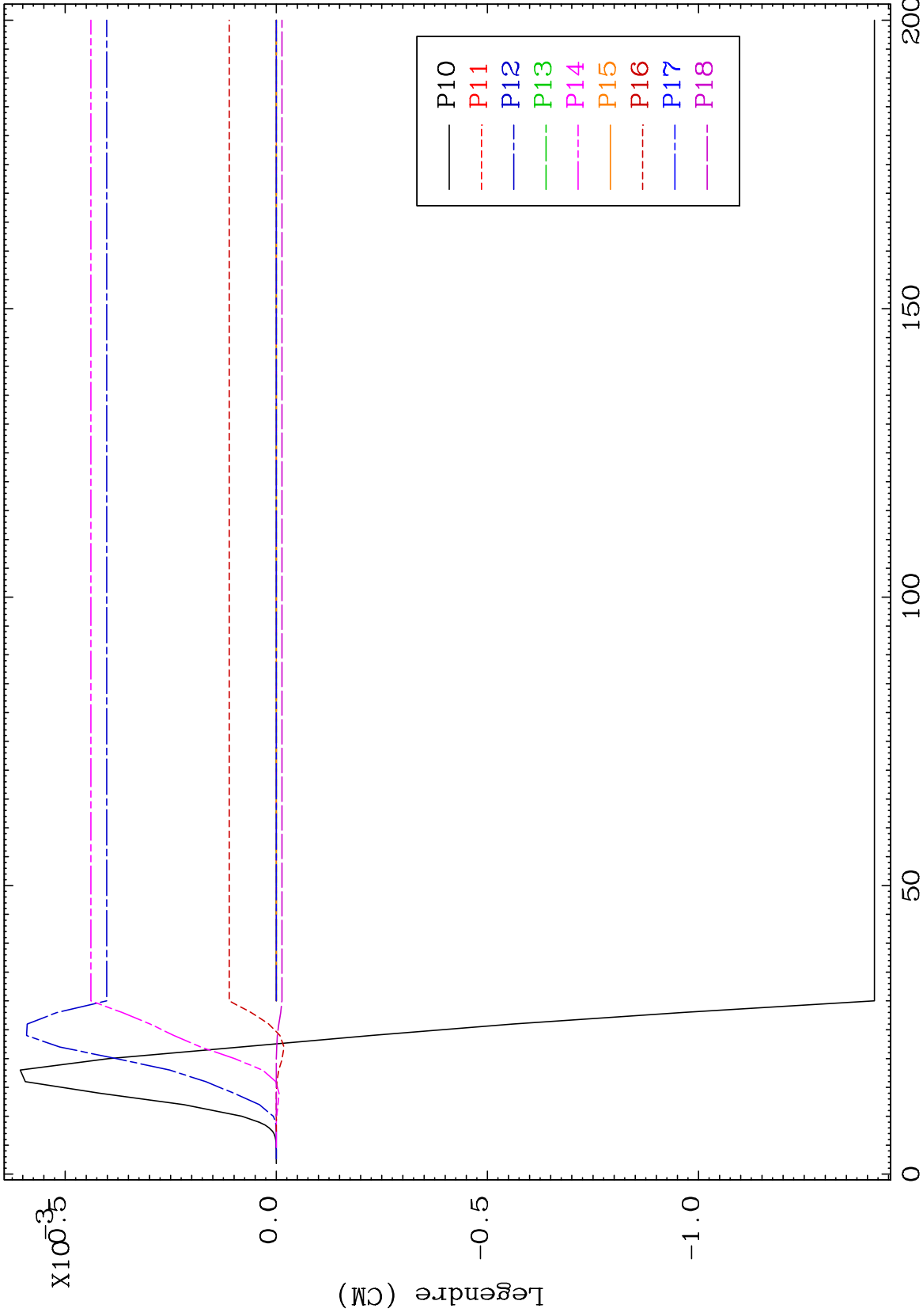
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



42

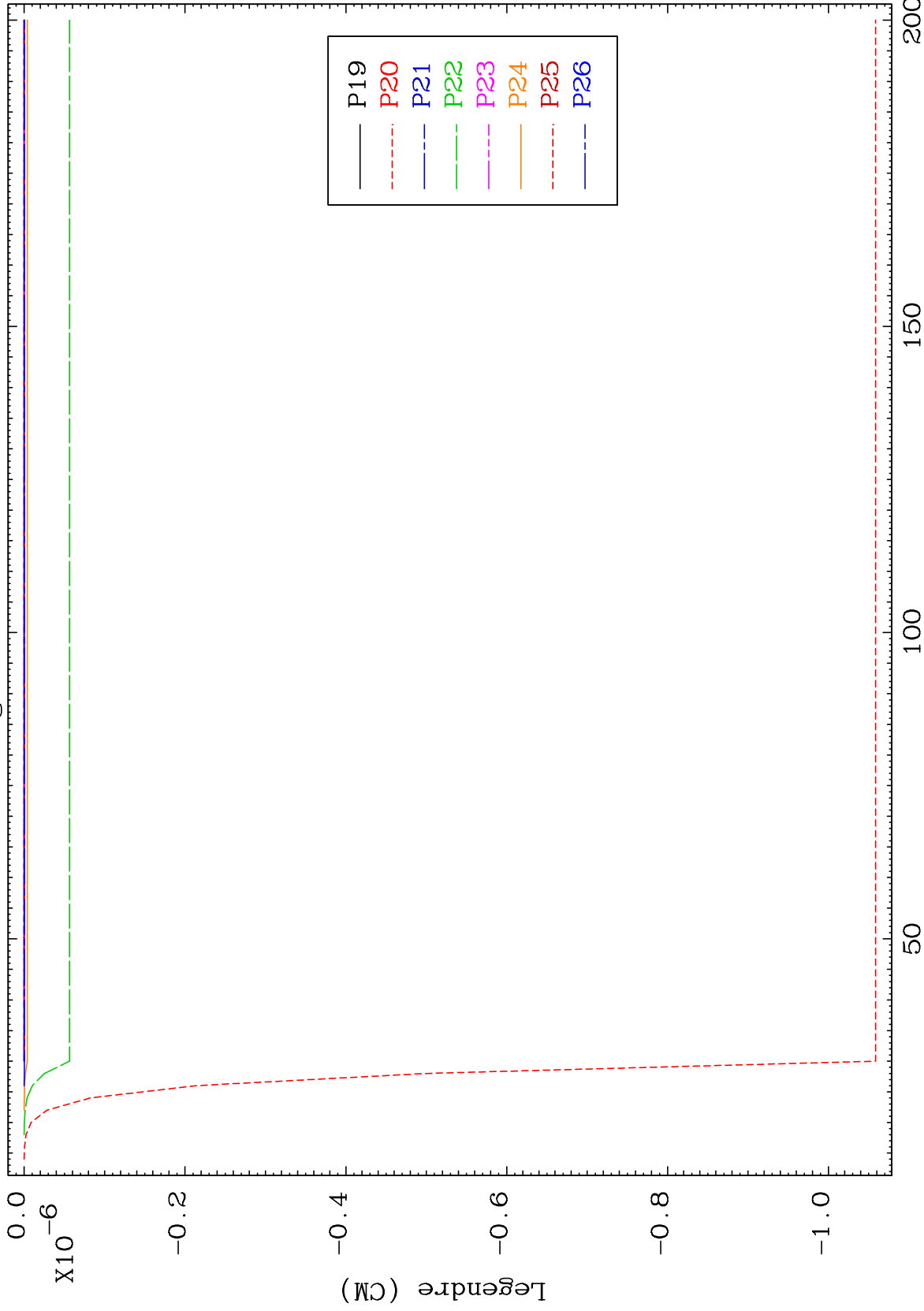
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



43

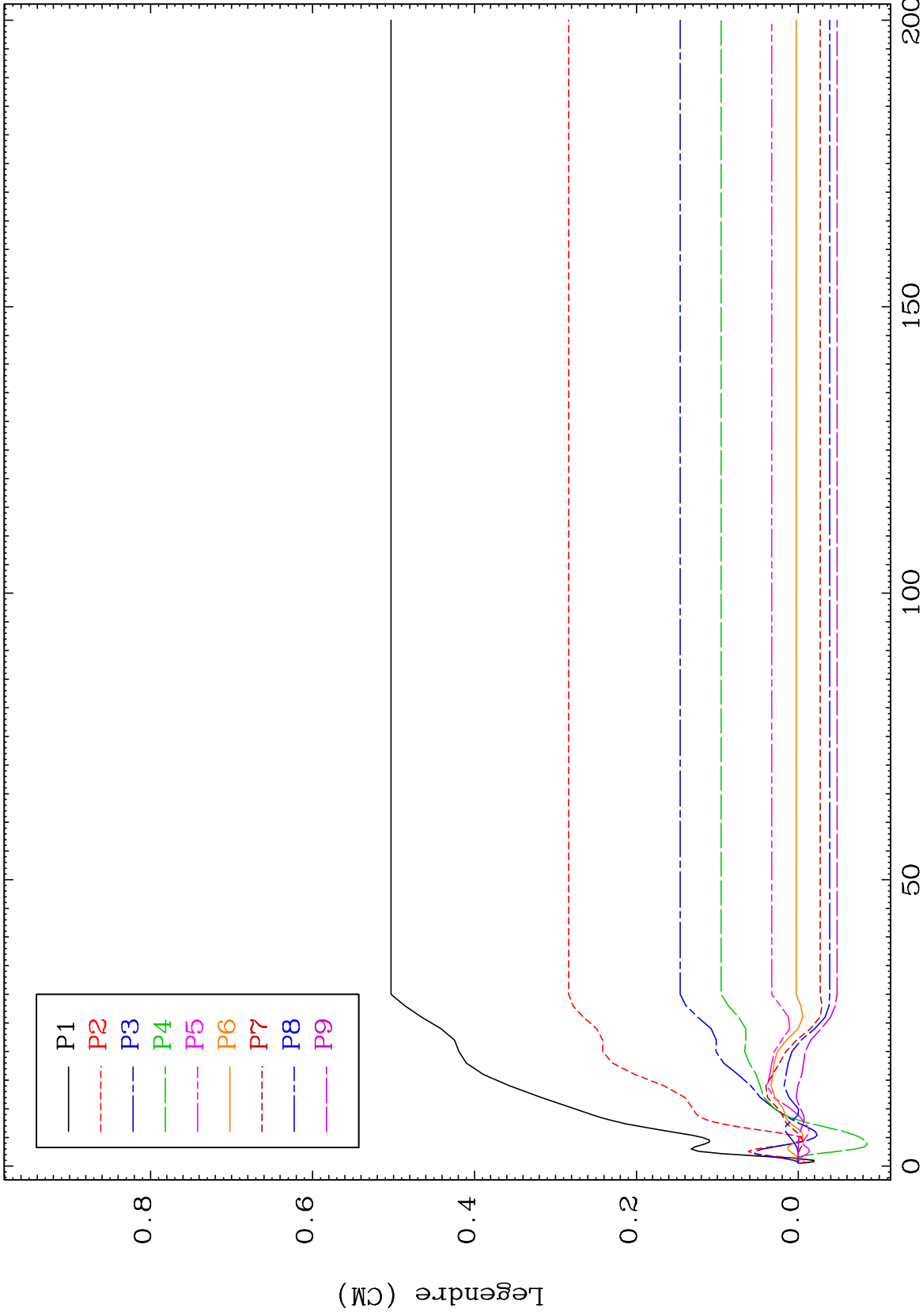
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



44

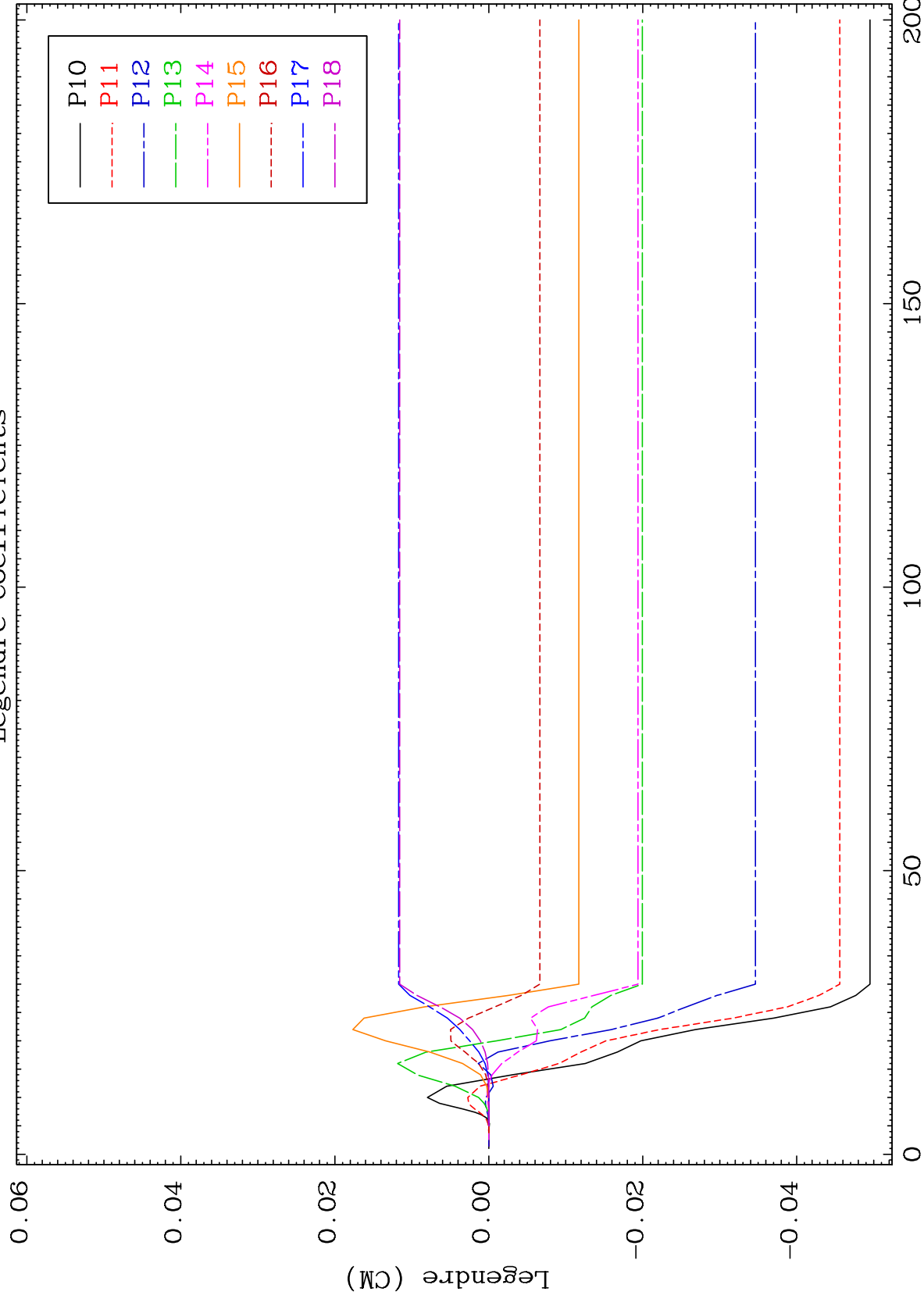
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



45

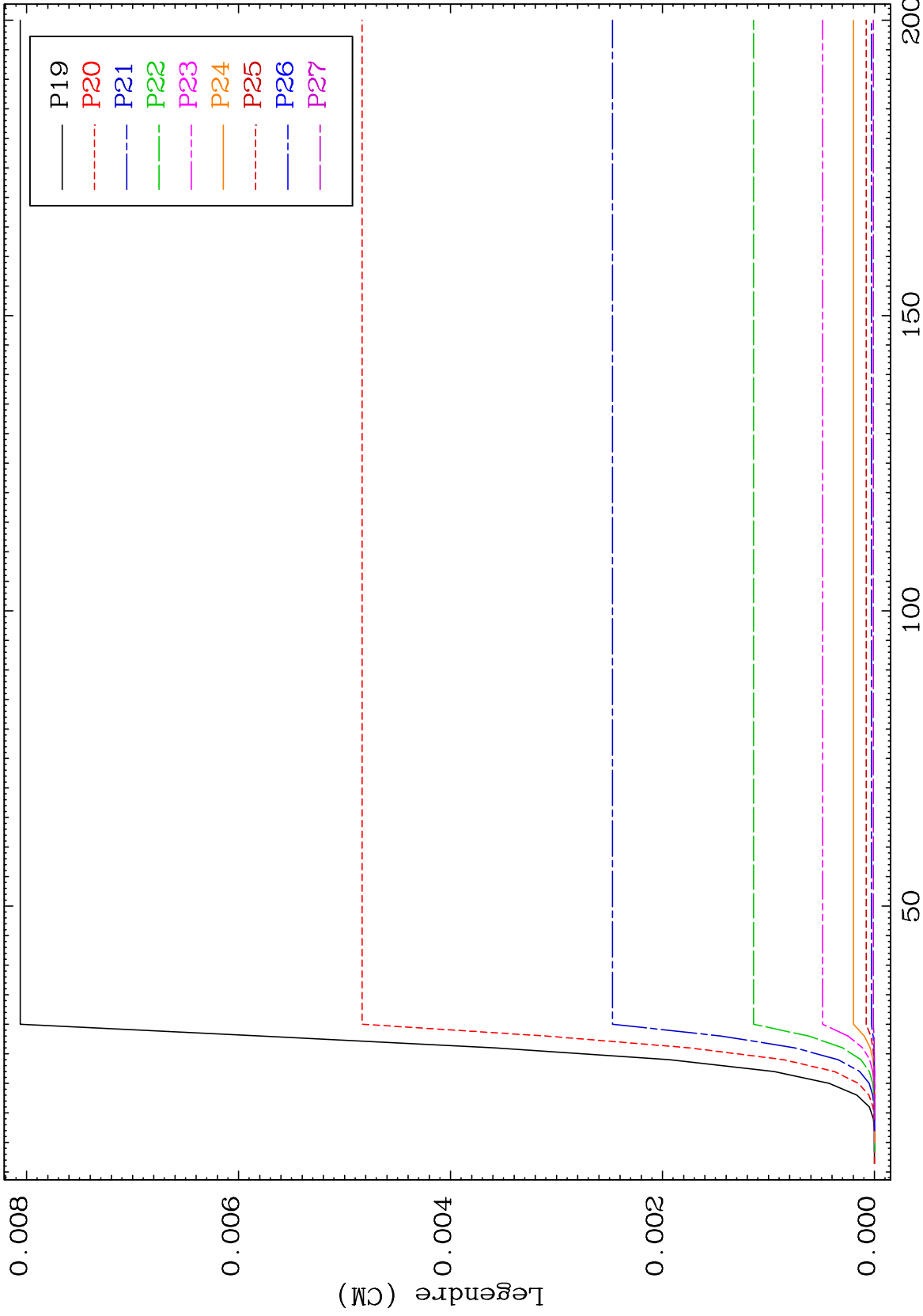
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



46

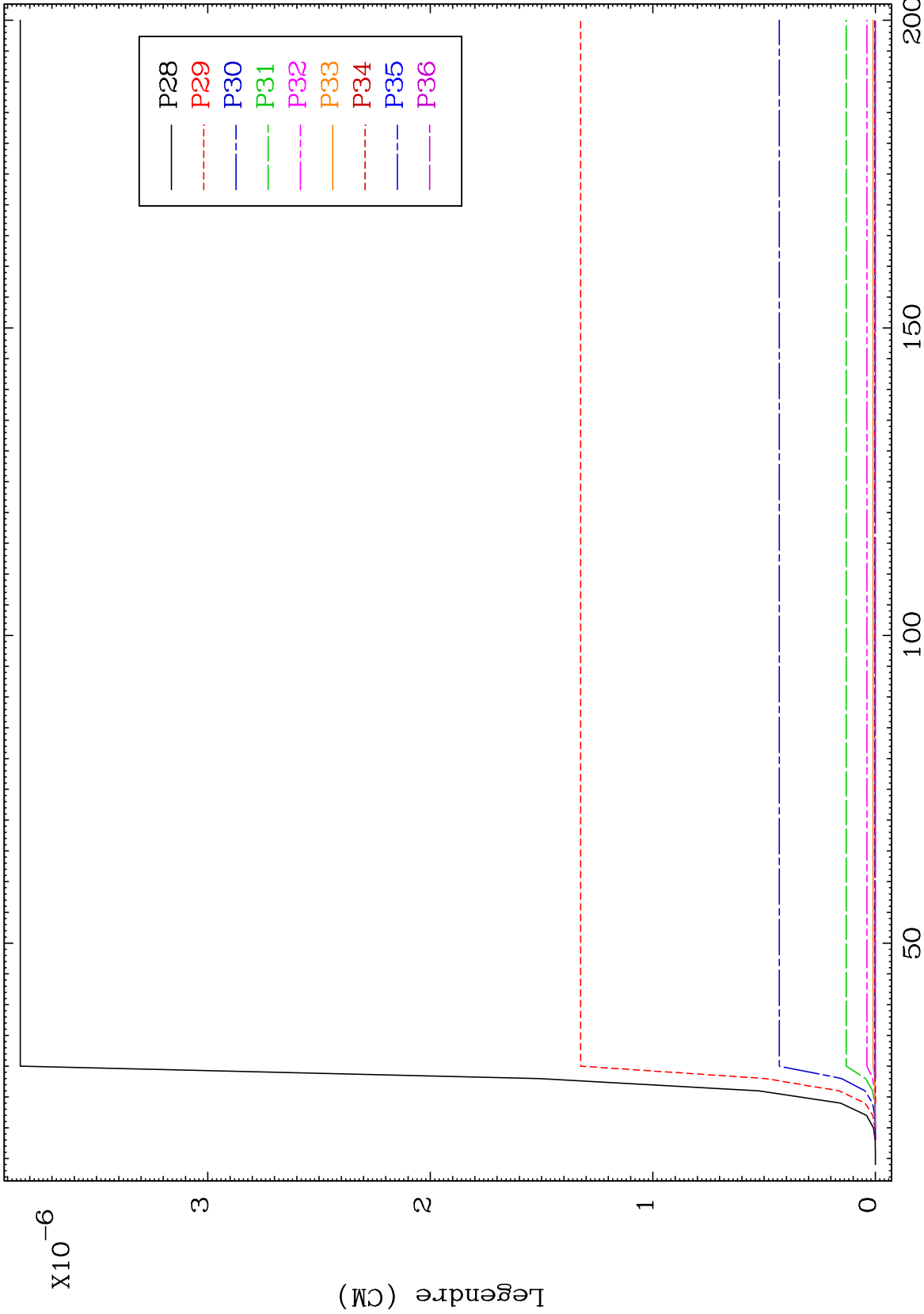
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



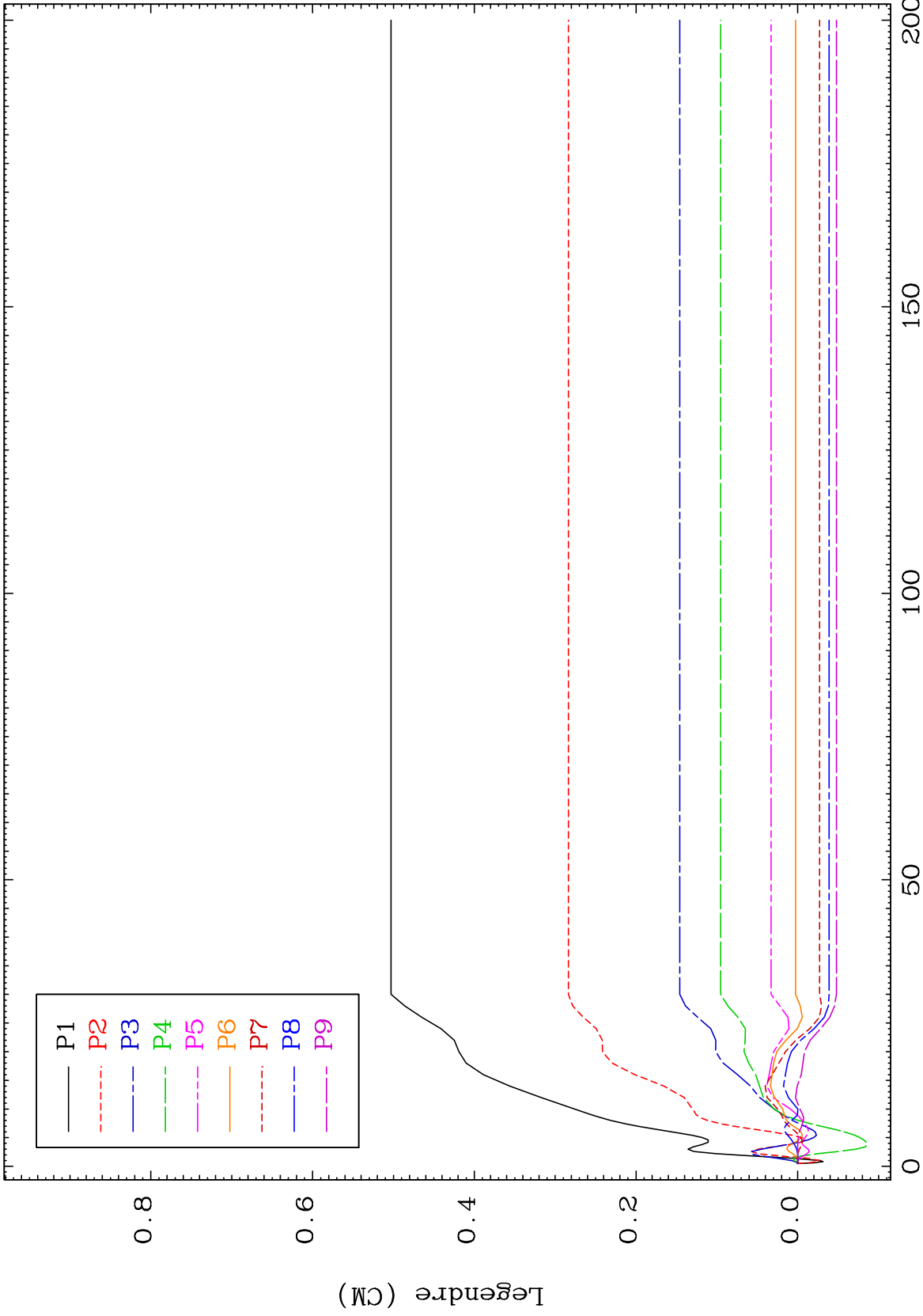
47

54-Xe-123

MAT 5422

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

54-Xe-123



48

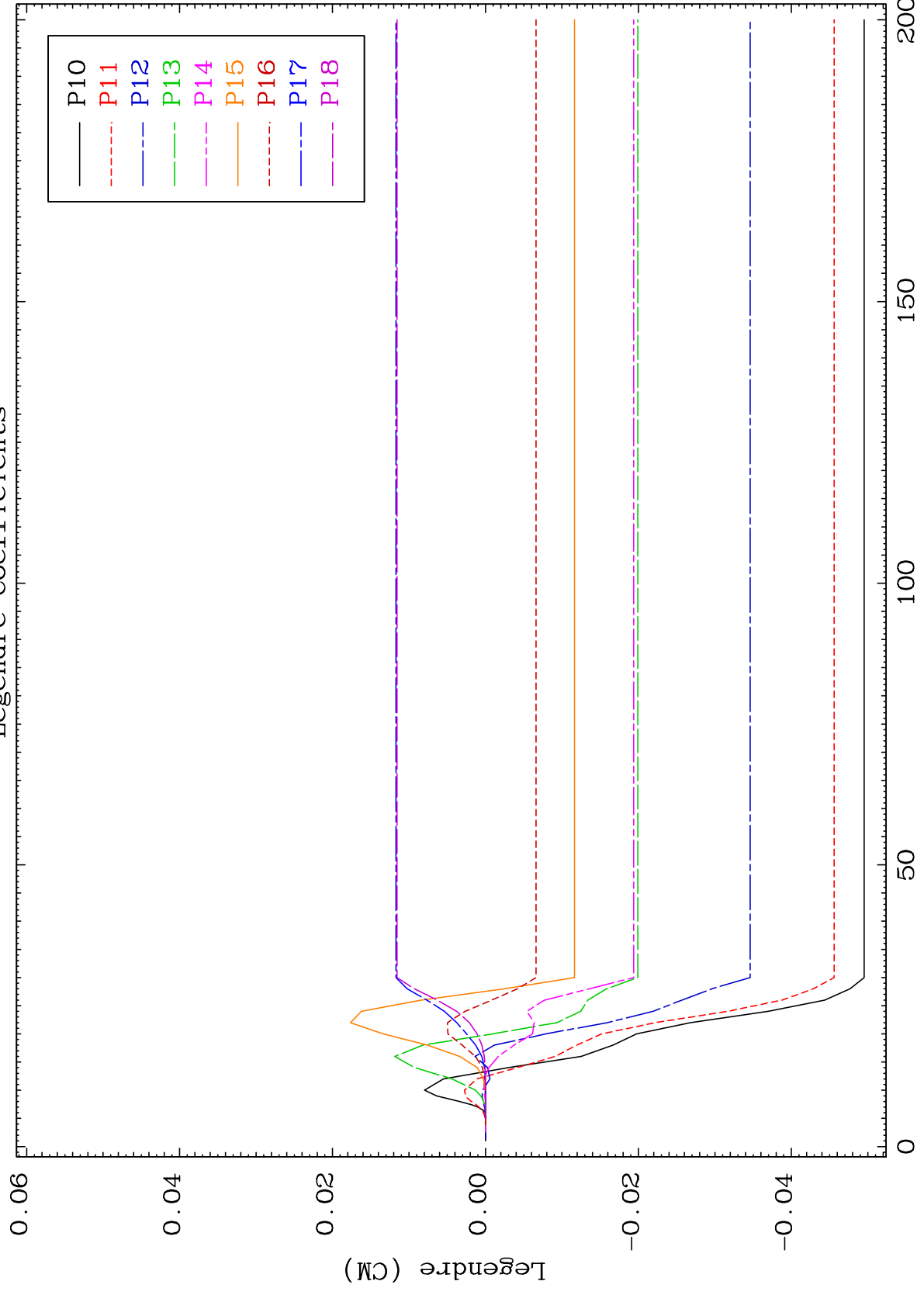
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



49

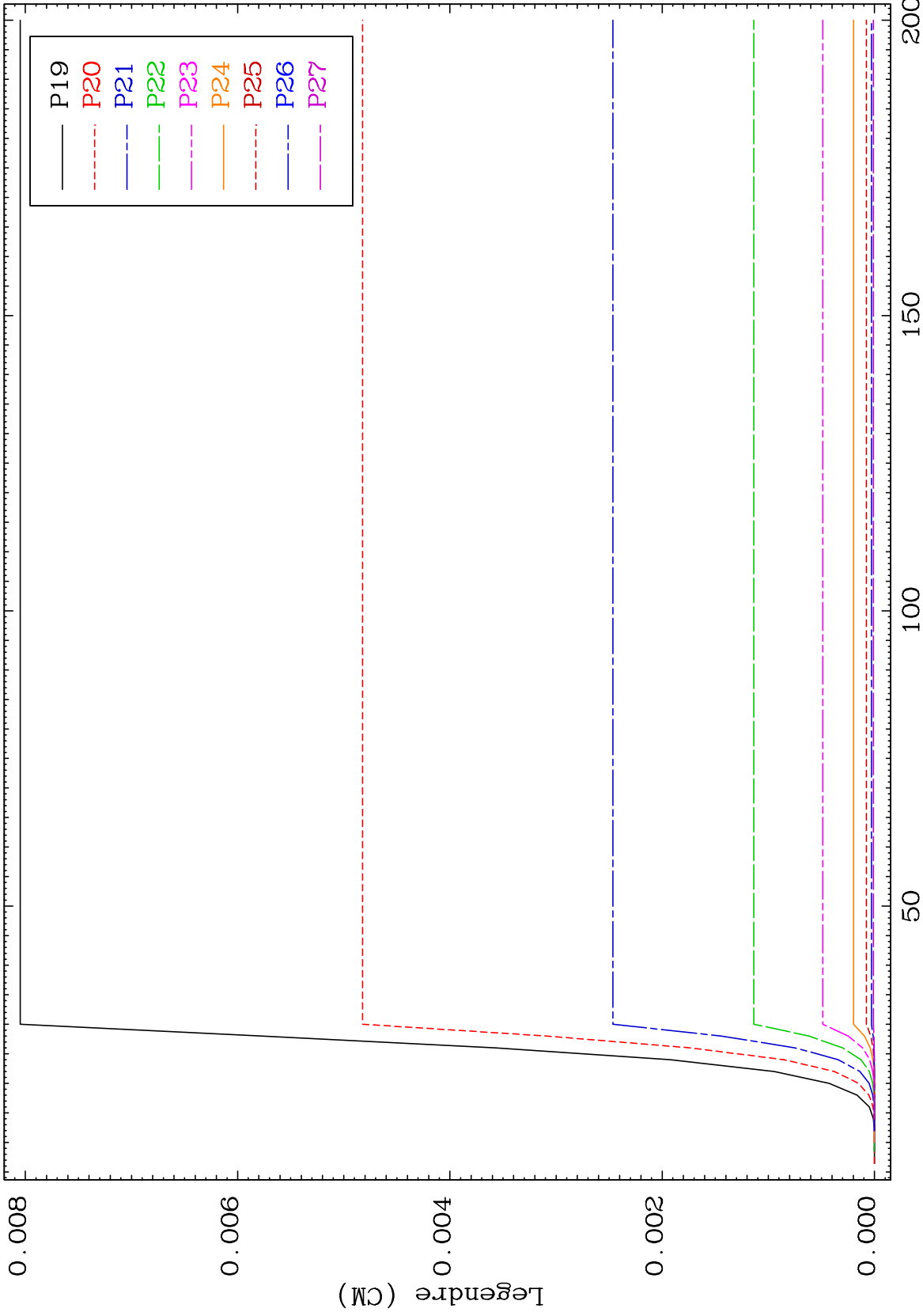
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



50

Incident Energy (MeV)

150

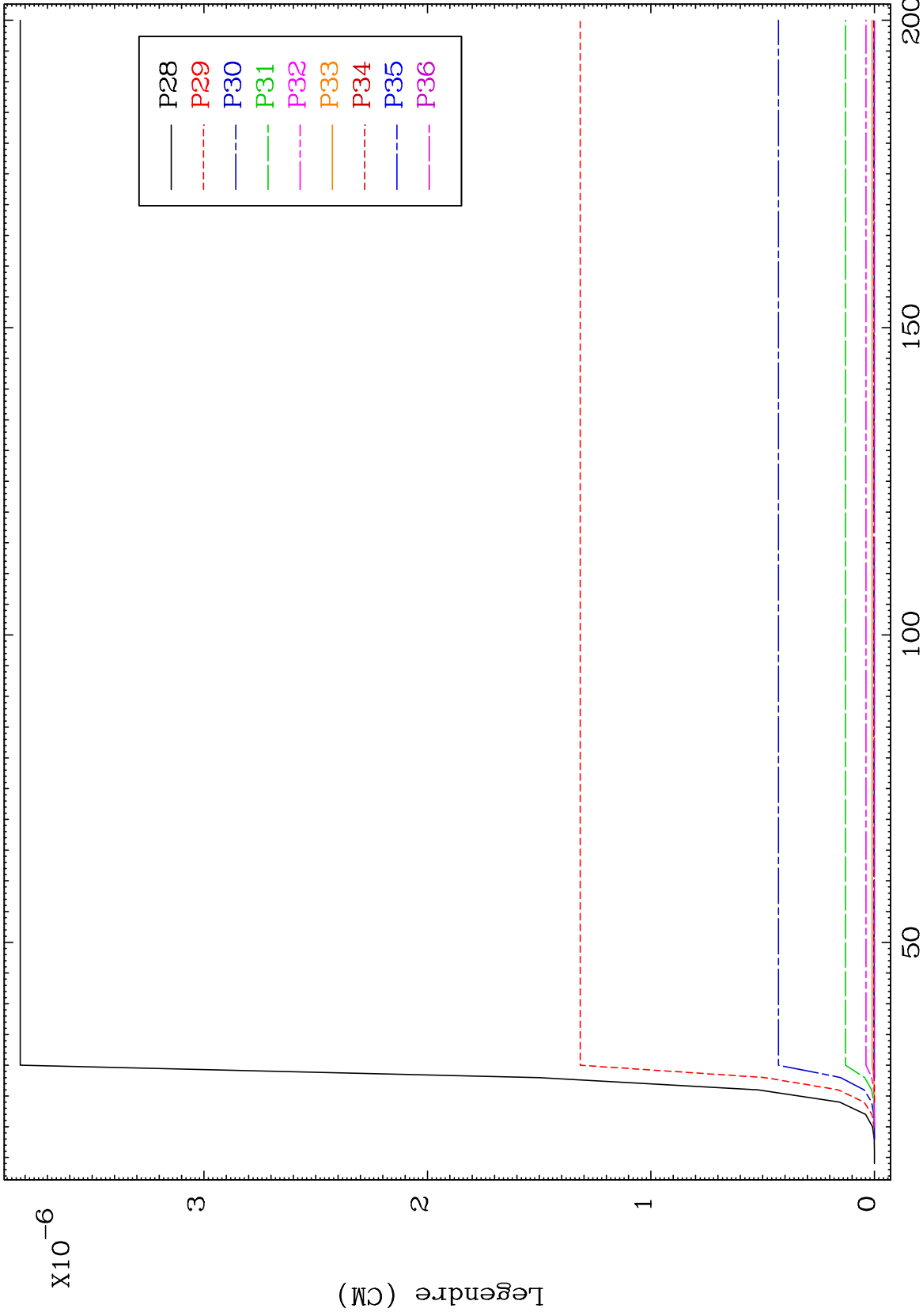
200

54-Xe-123

MAT 5422

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

54-Xe-123



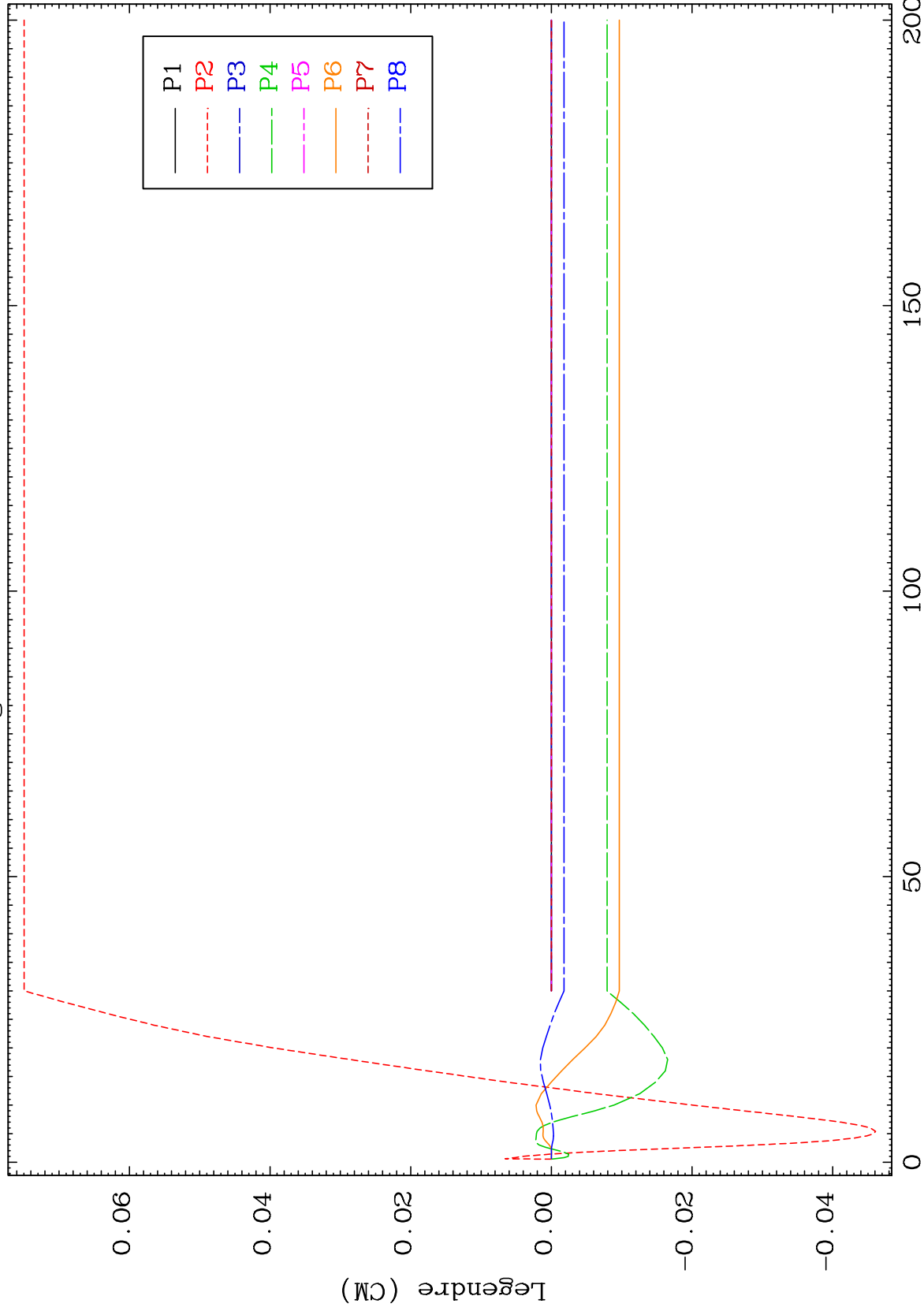
51

54-Xe-123

MAT 5422

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

54-Xe-123



52

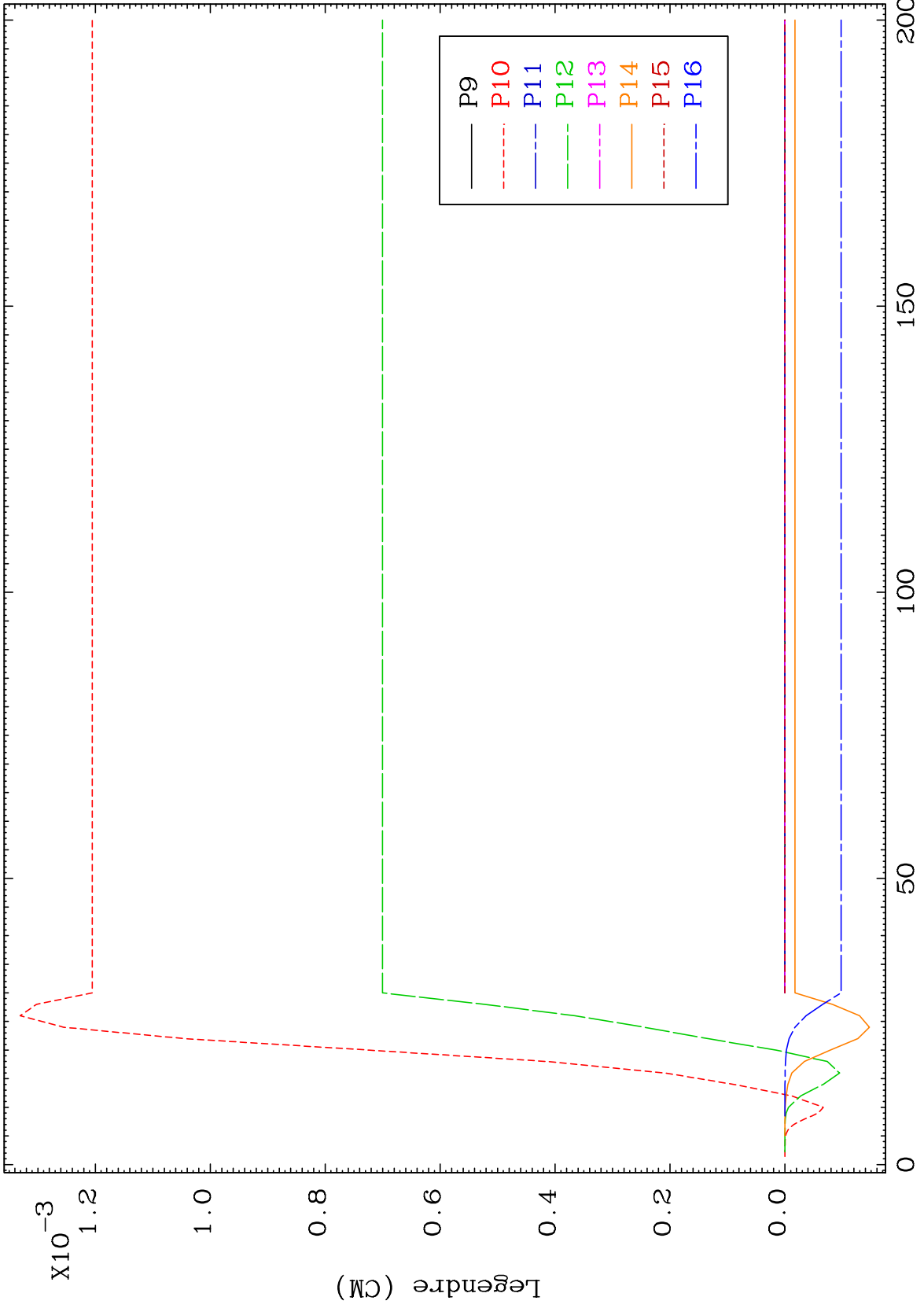
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



53

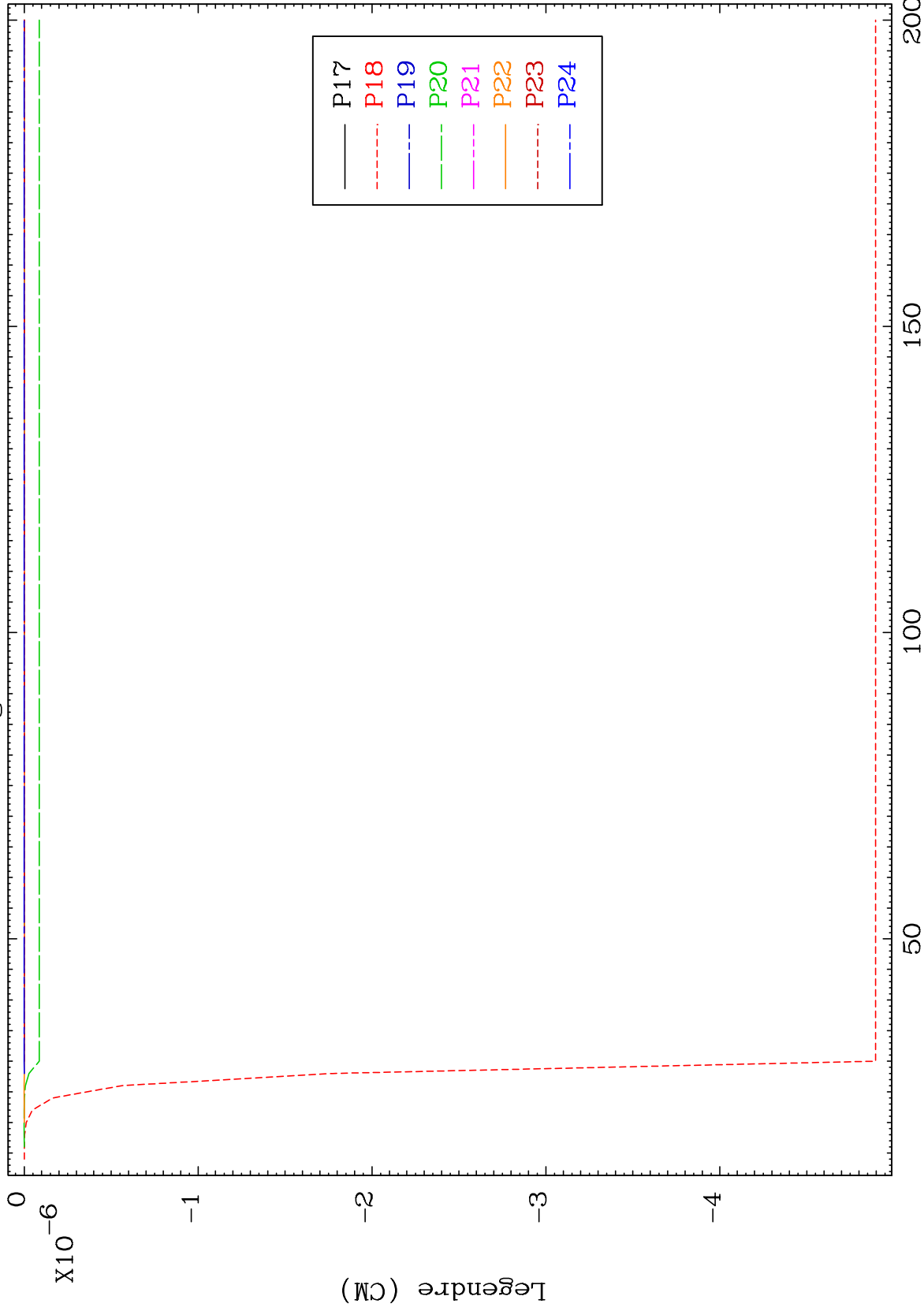
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



54

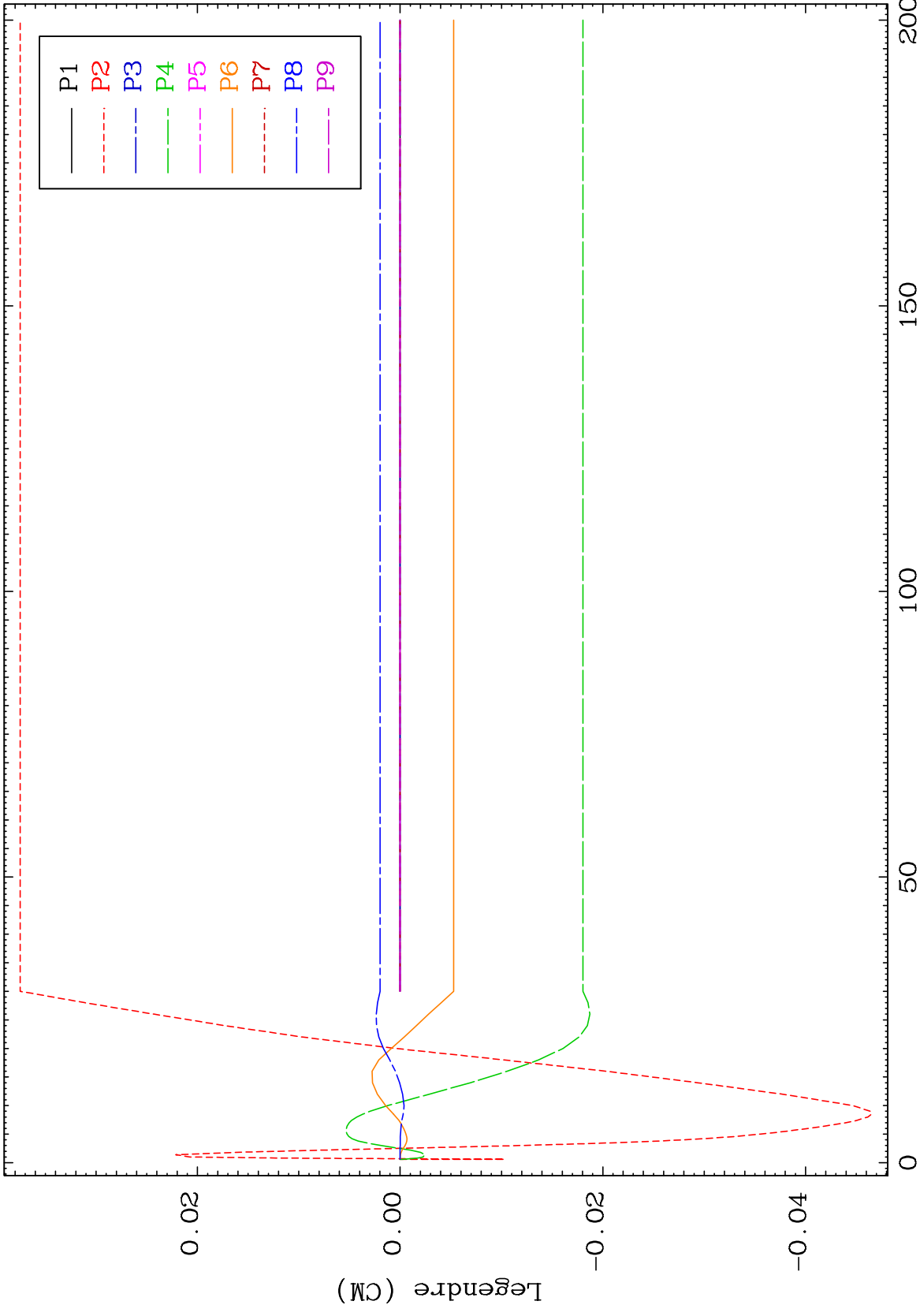
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



55

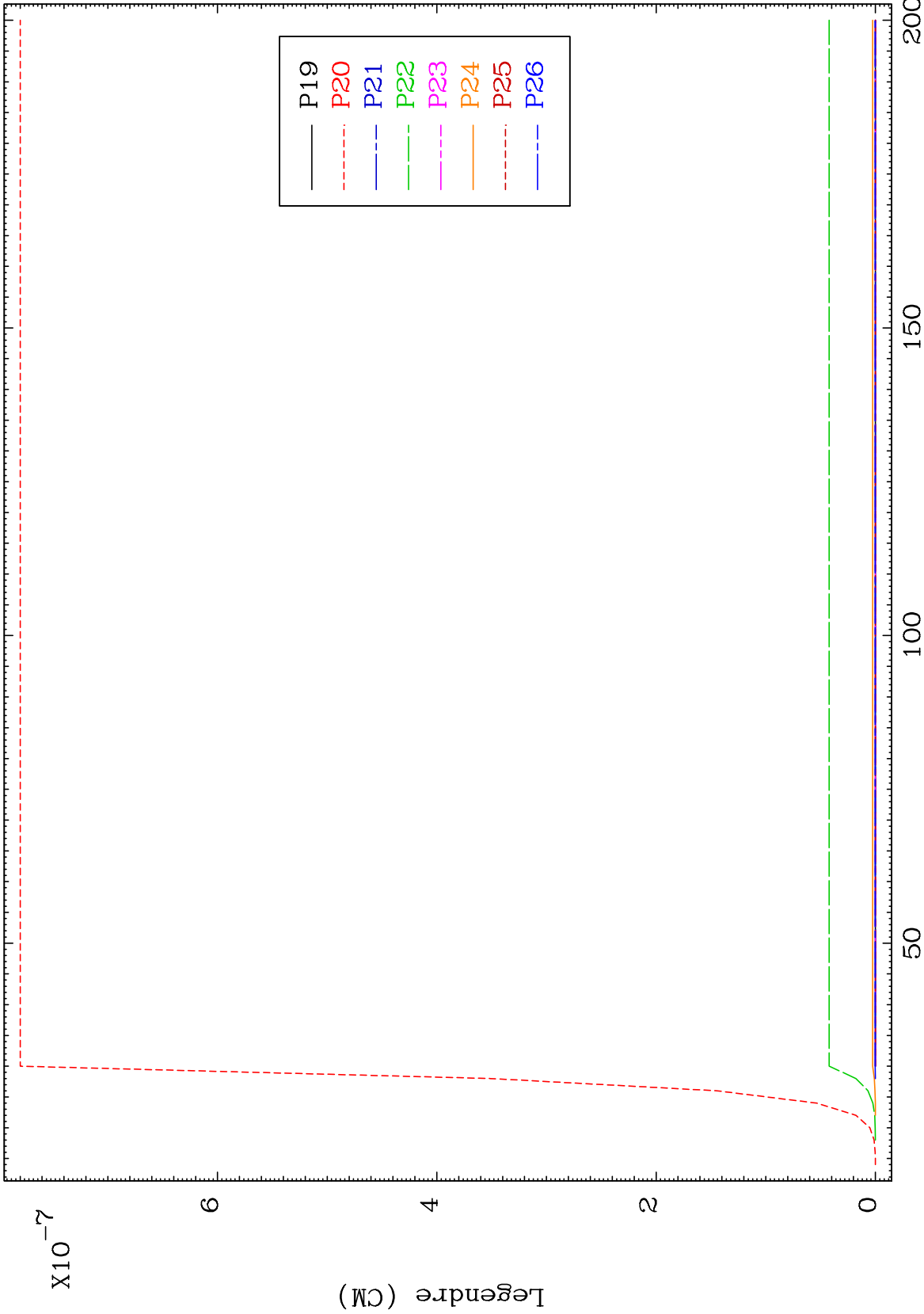
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



57

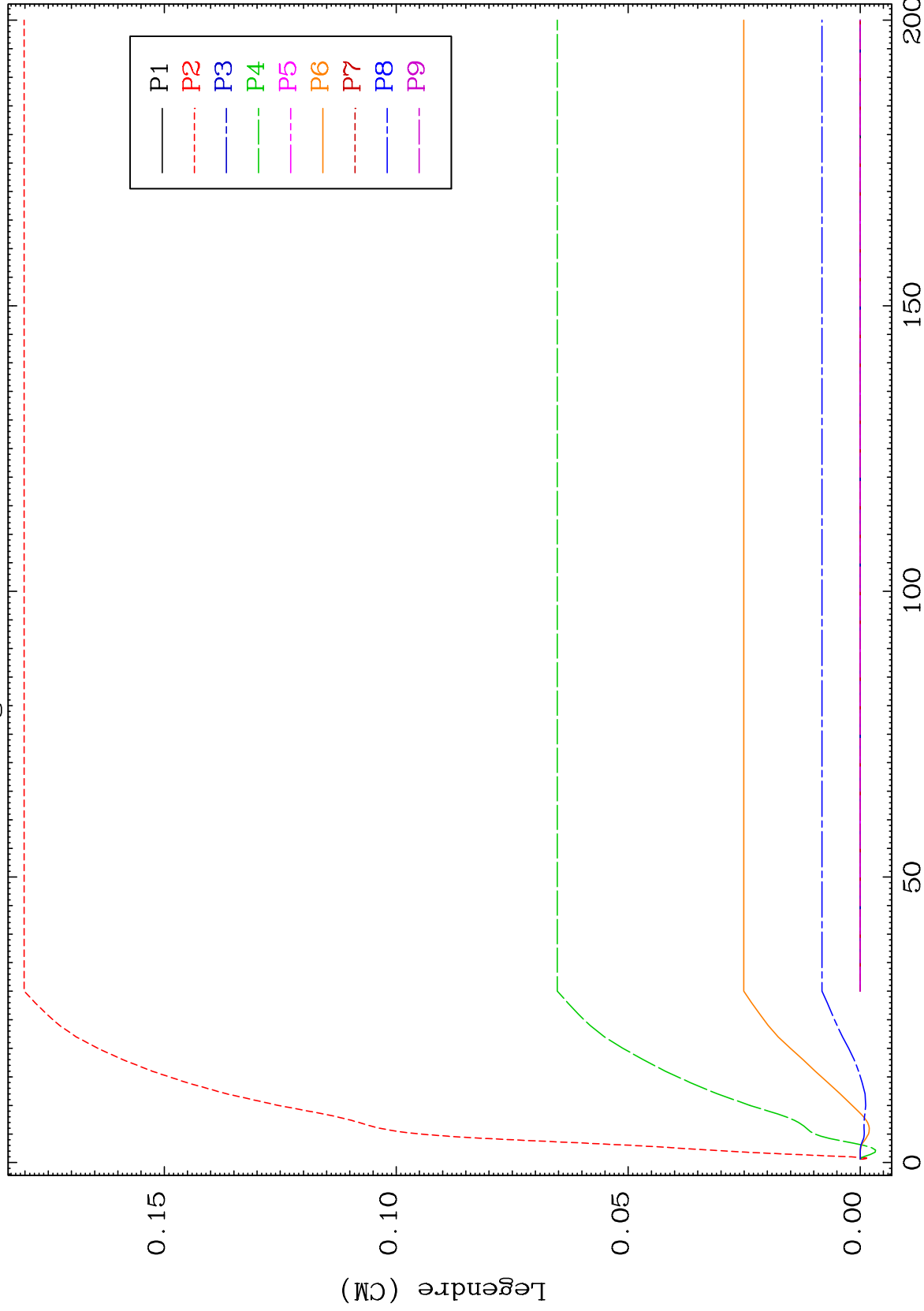
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



58

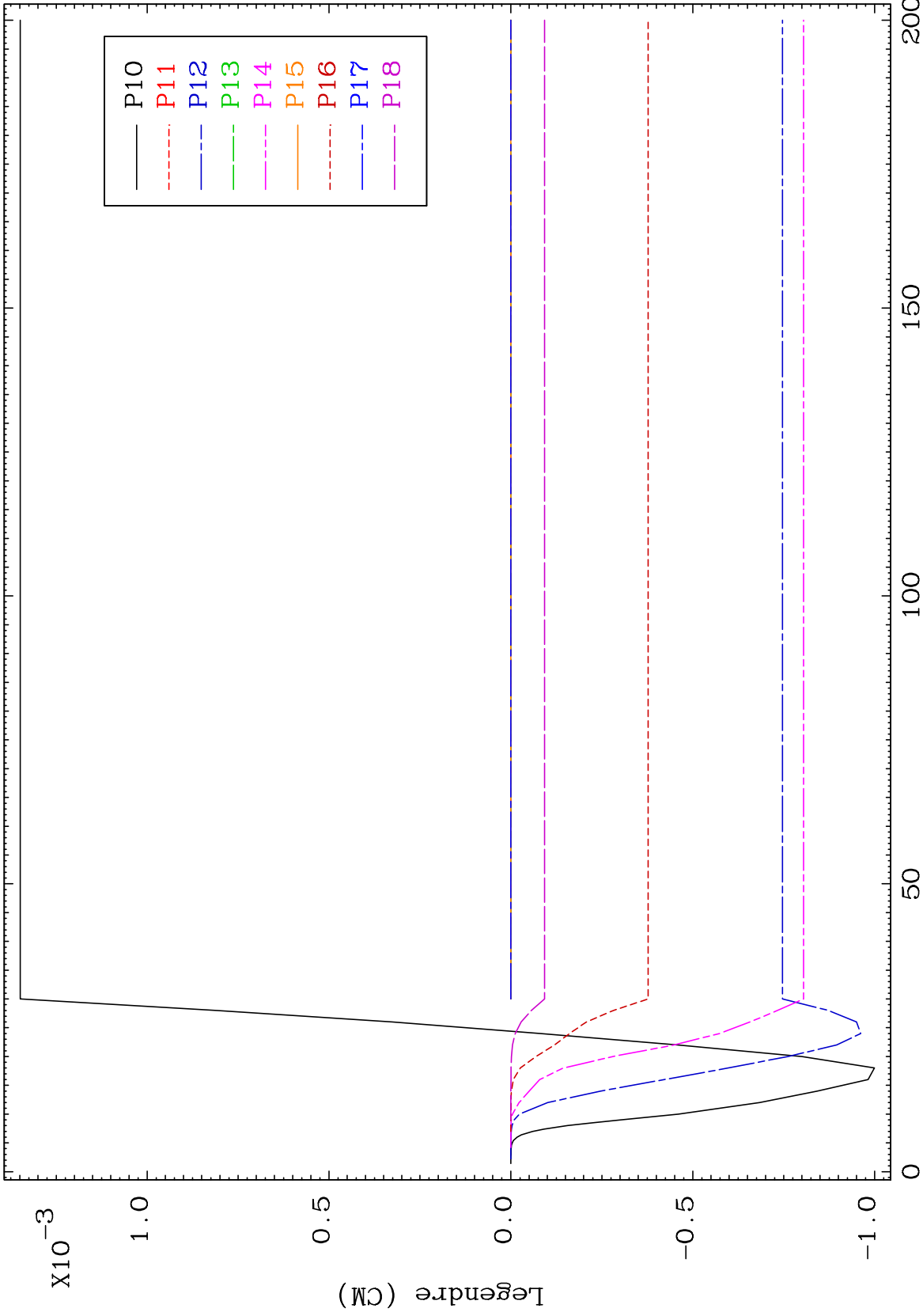
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



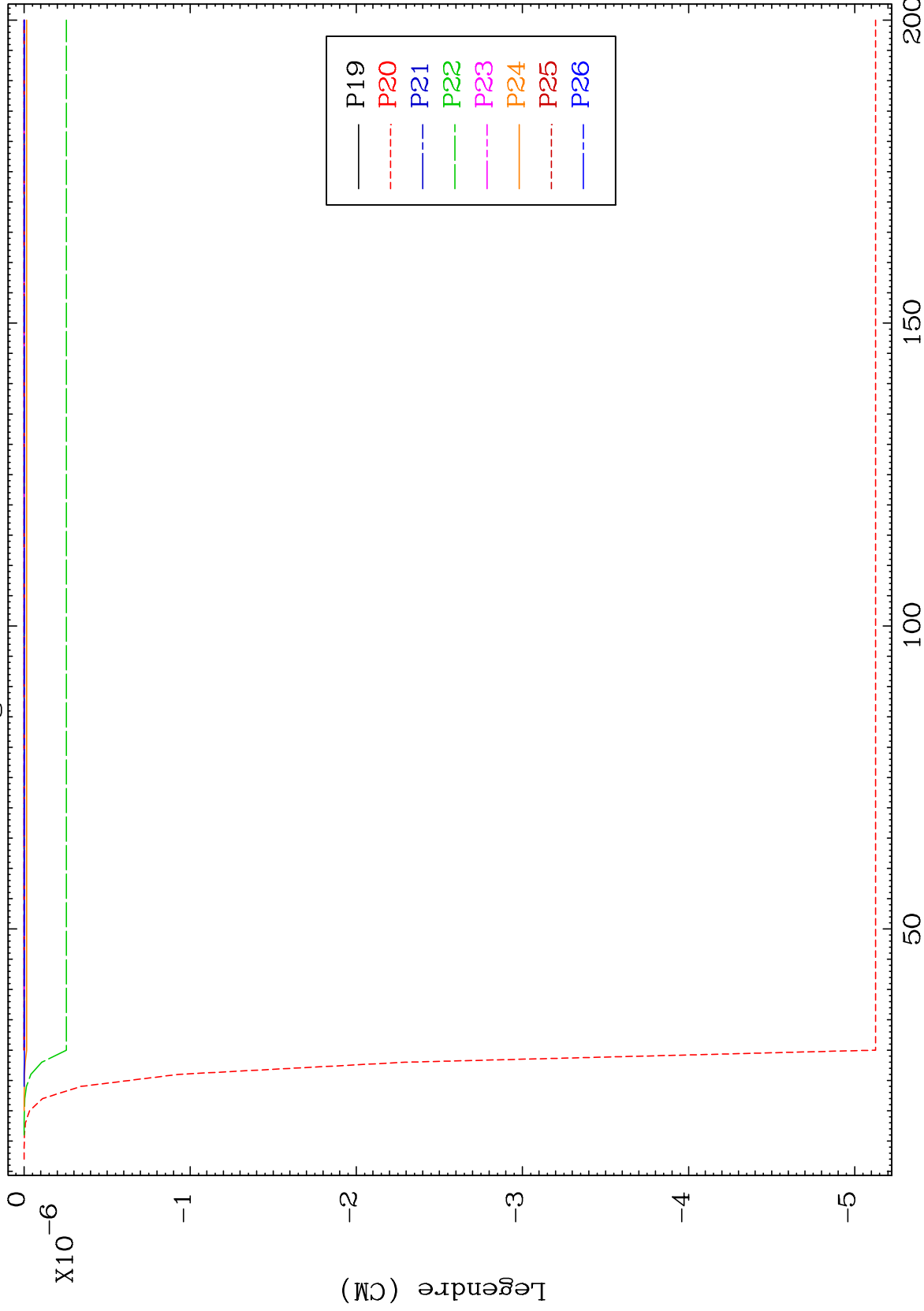
59

54-Xe-123

MAT 5422

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

54-Xe-123



60

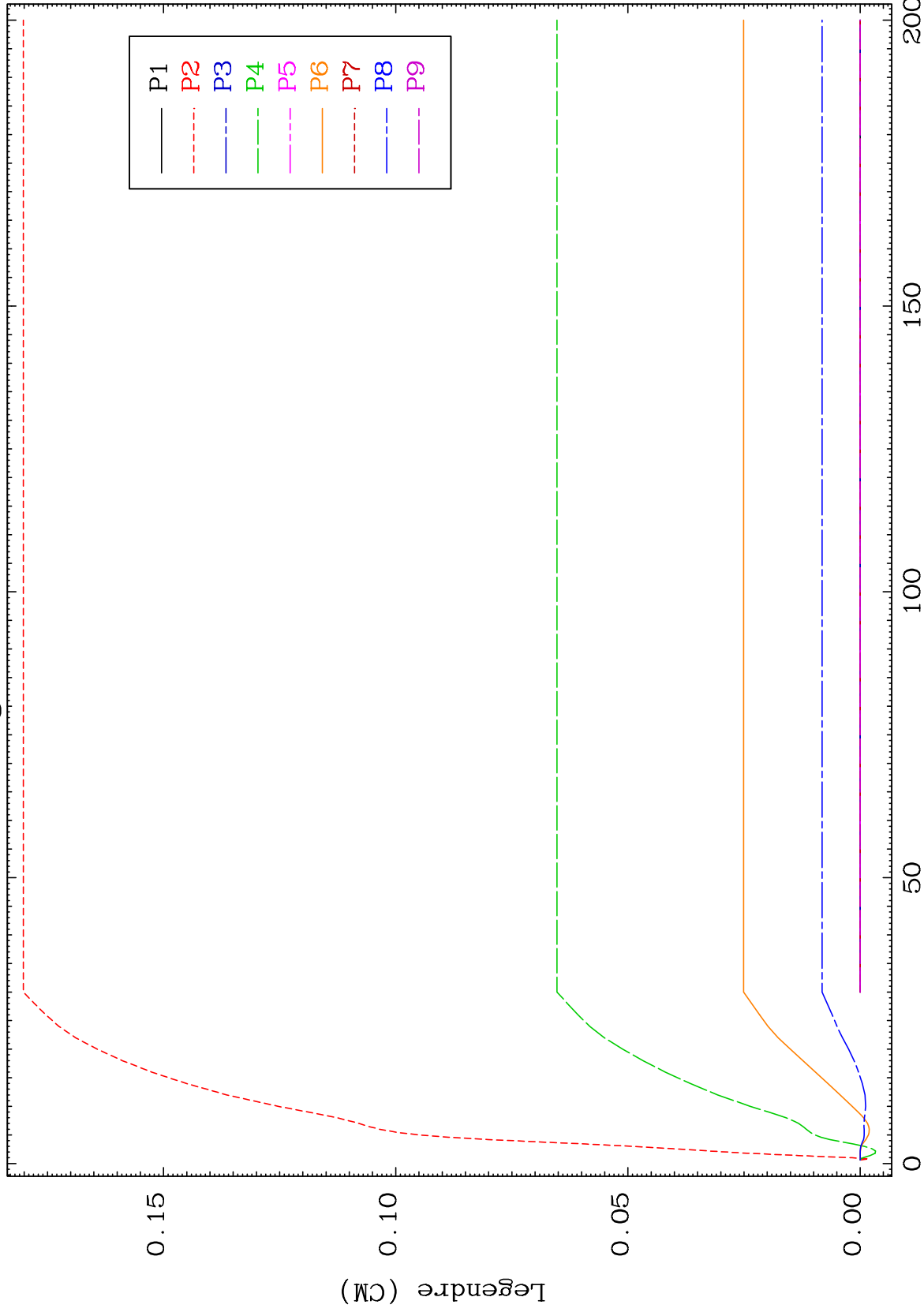
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



61

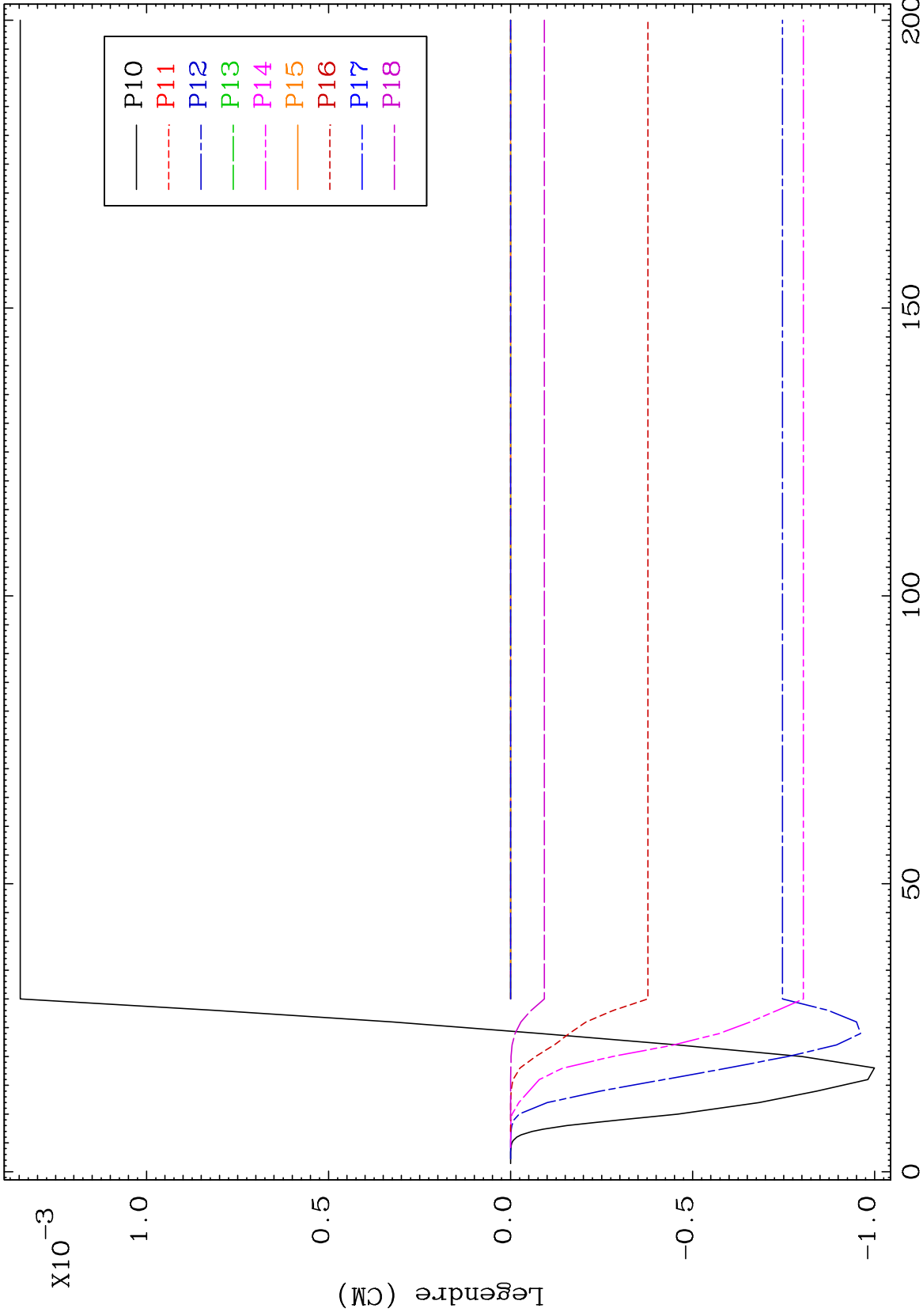
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



62

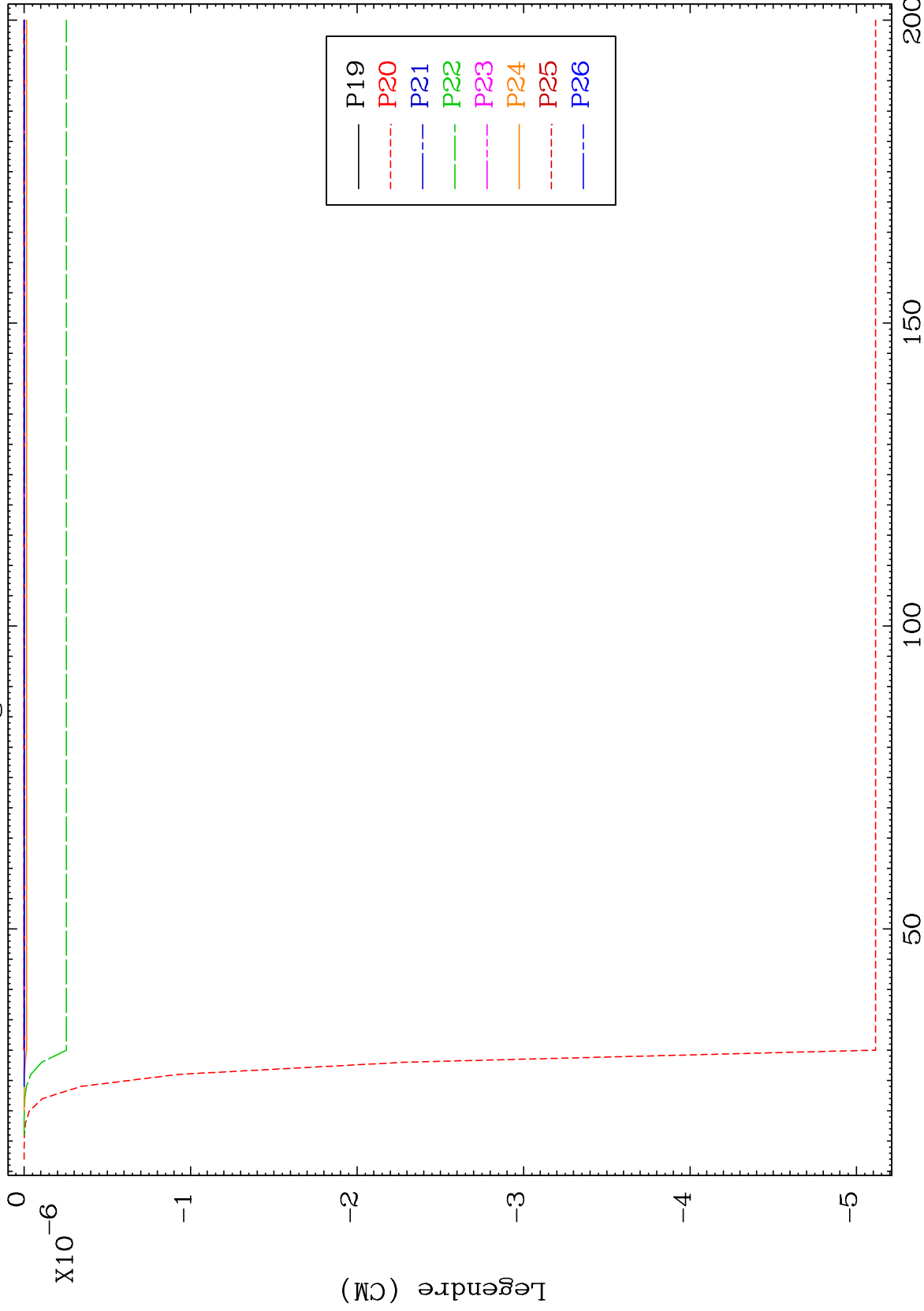
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



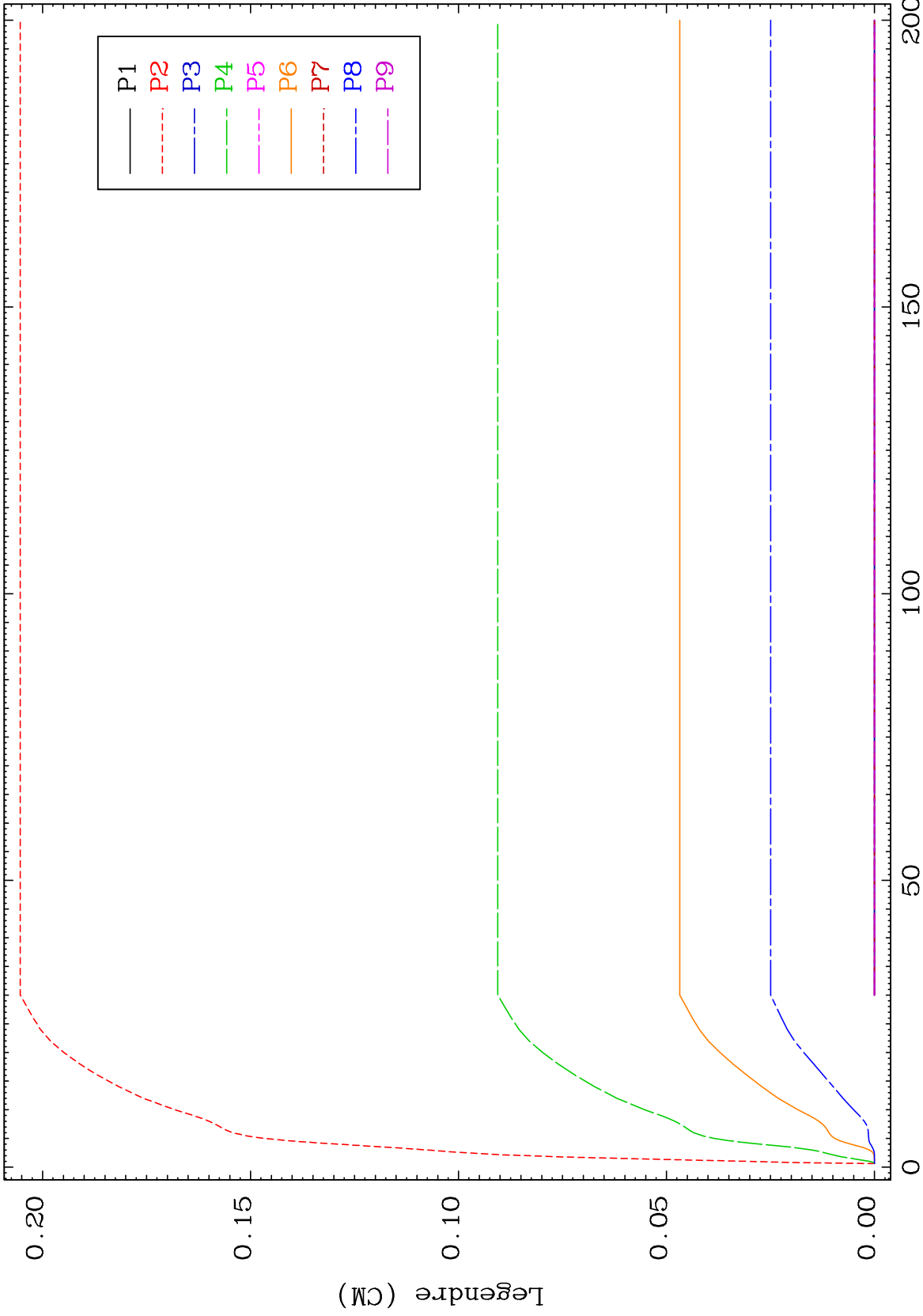
63

54-Xe-123

MAT 5422

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

54-Xe-123



64

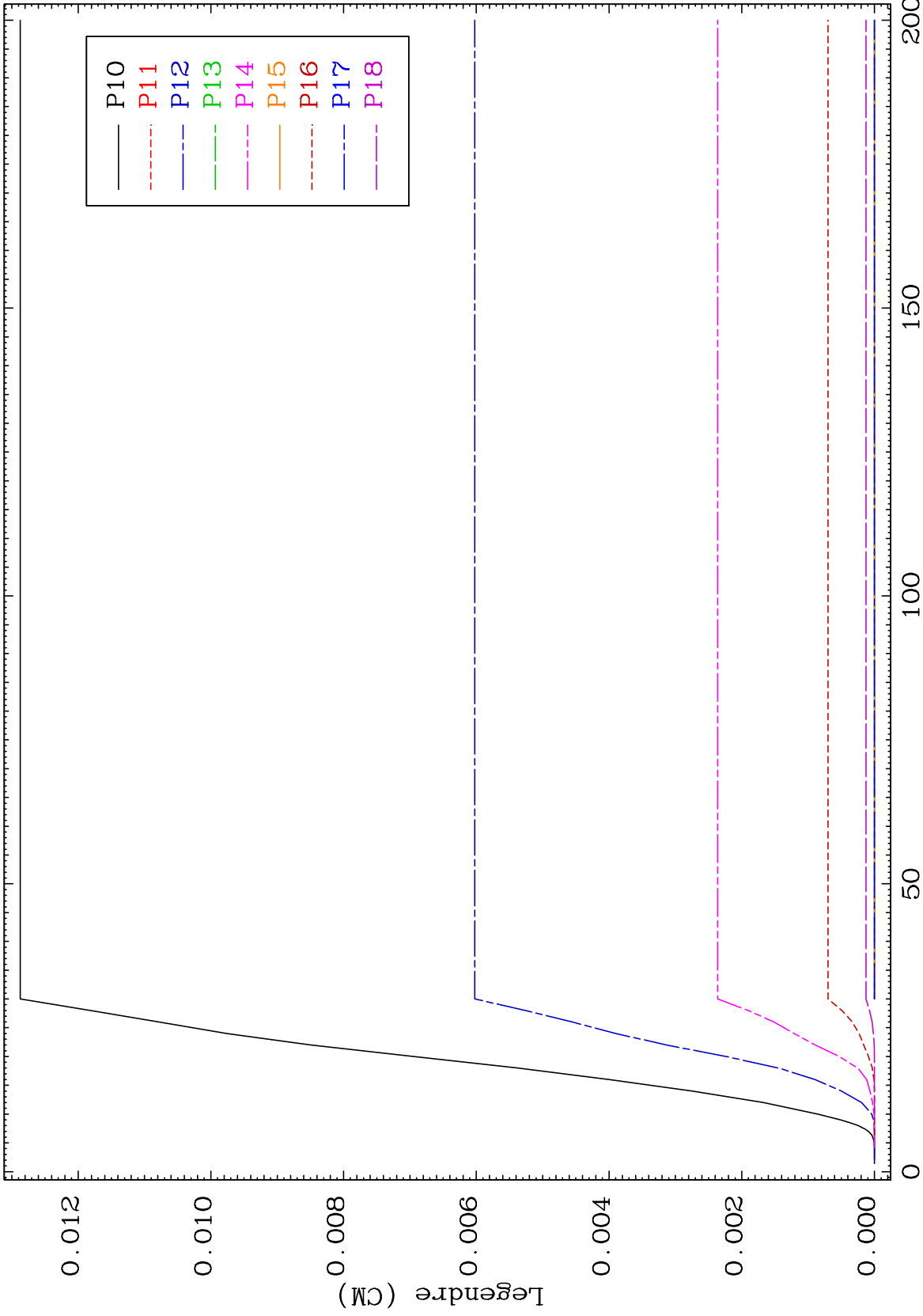
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



65

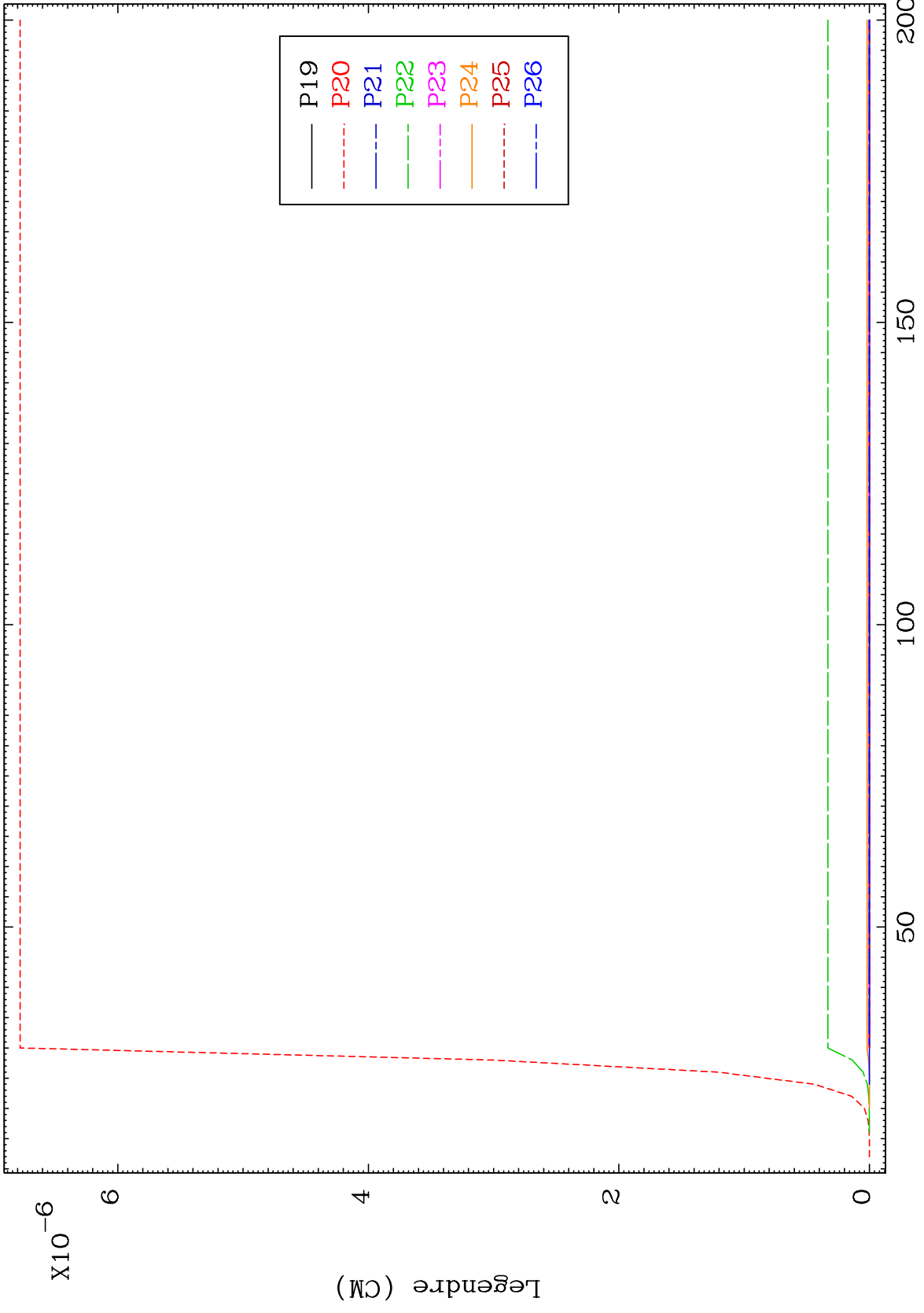
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



66

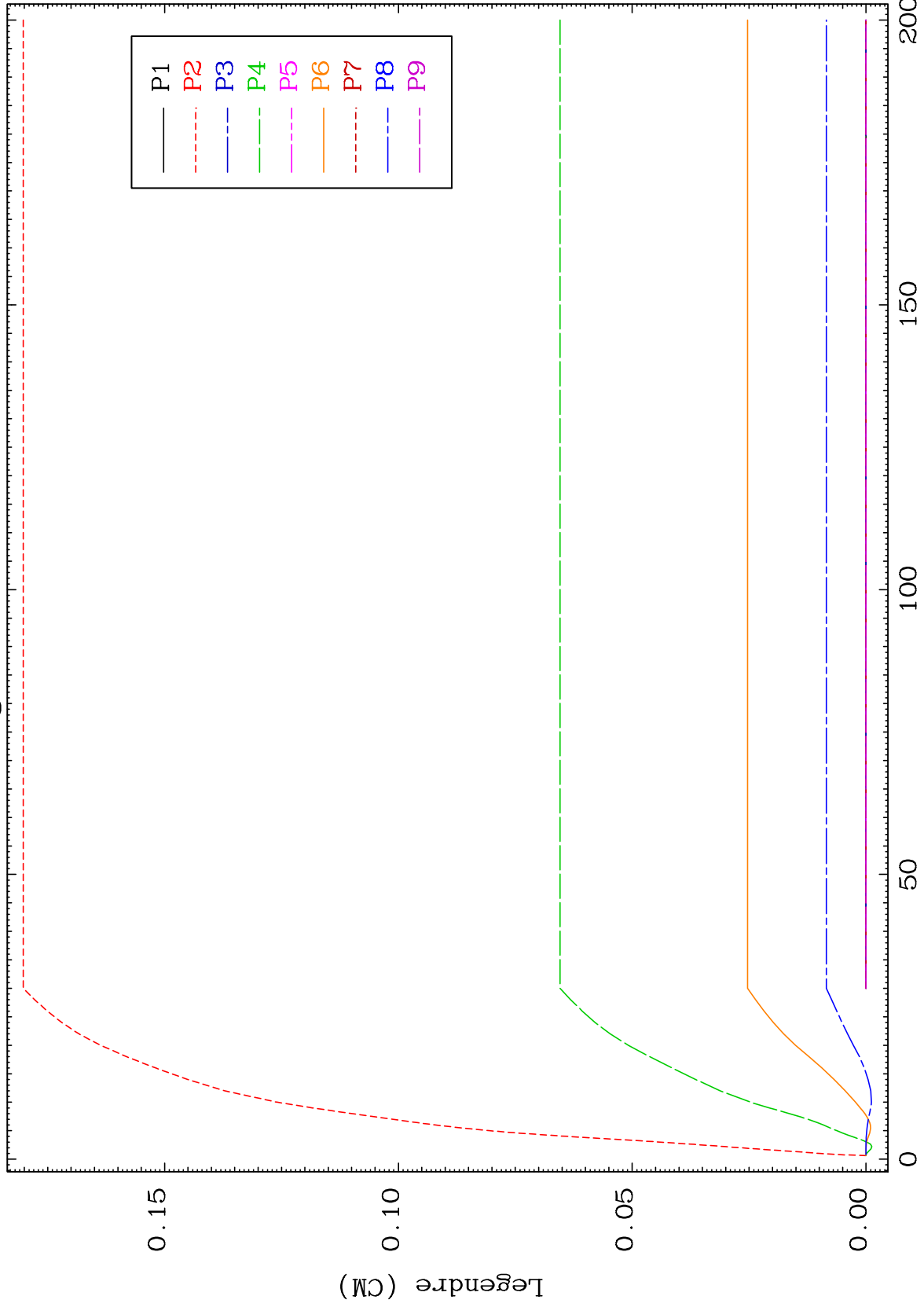
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



67

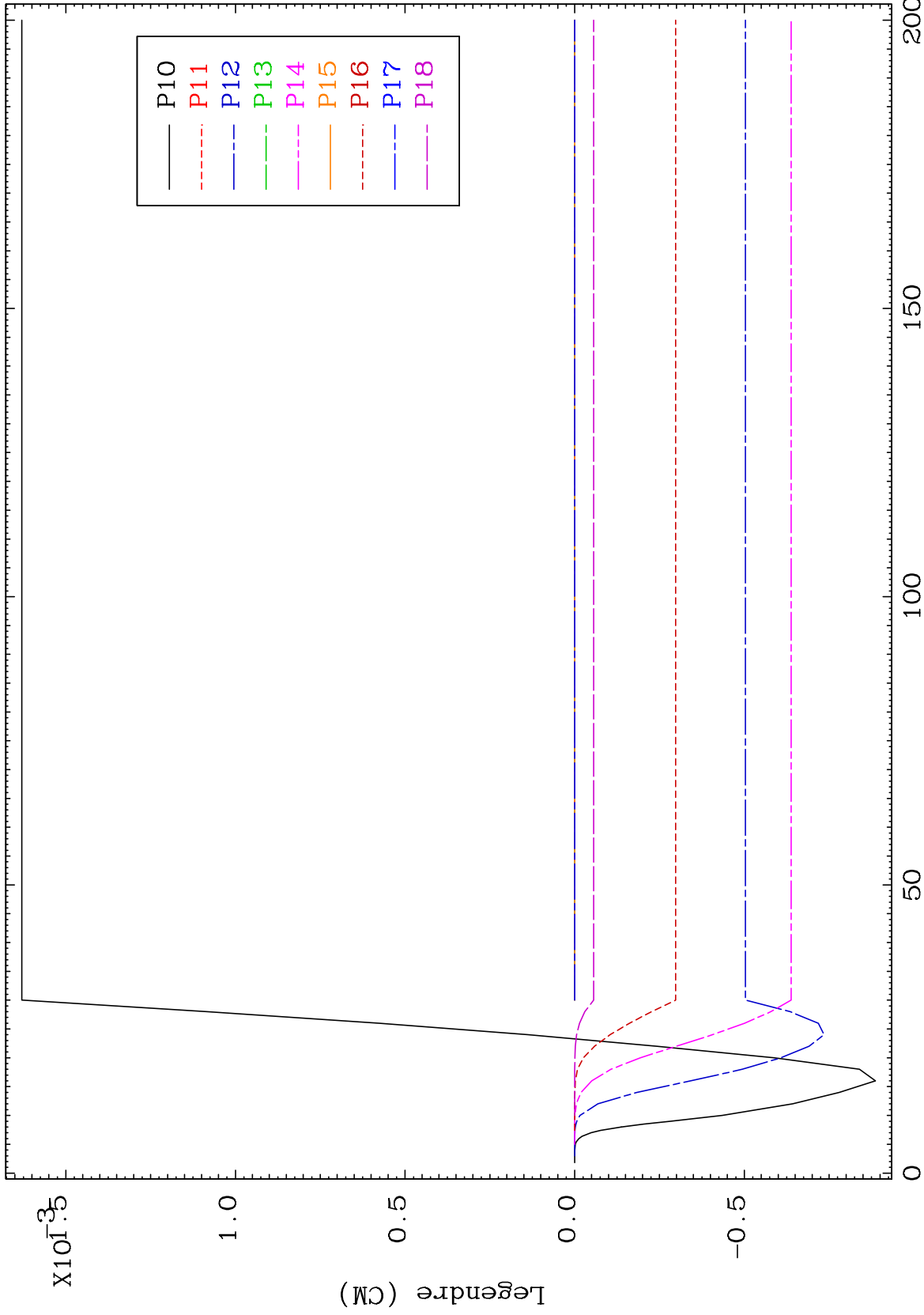
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



68

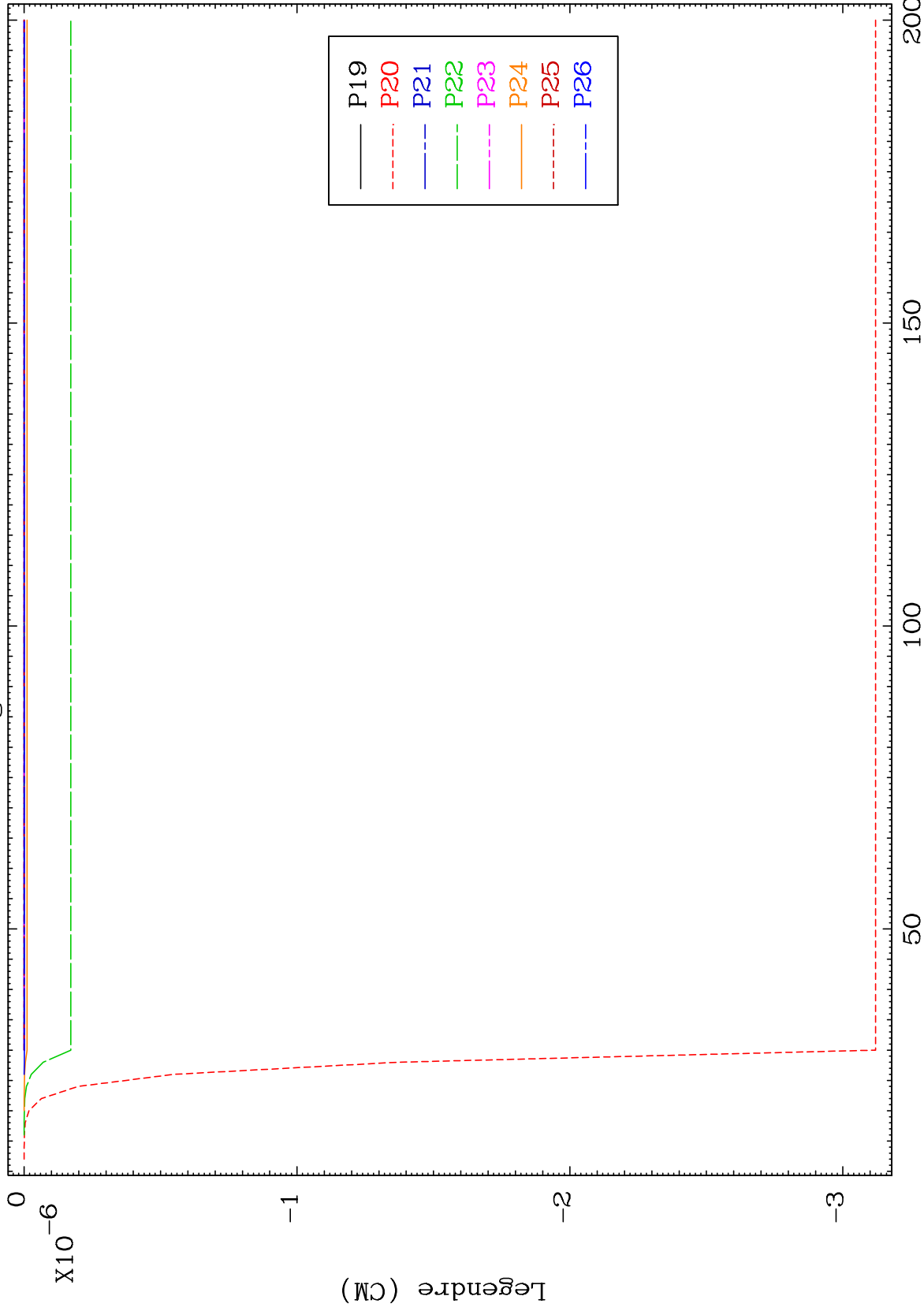
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



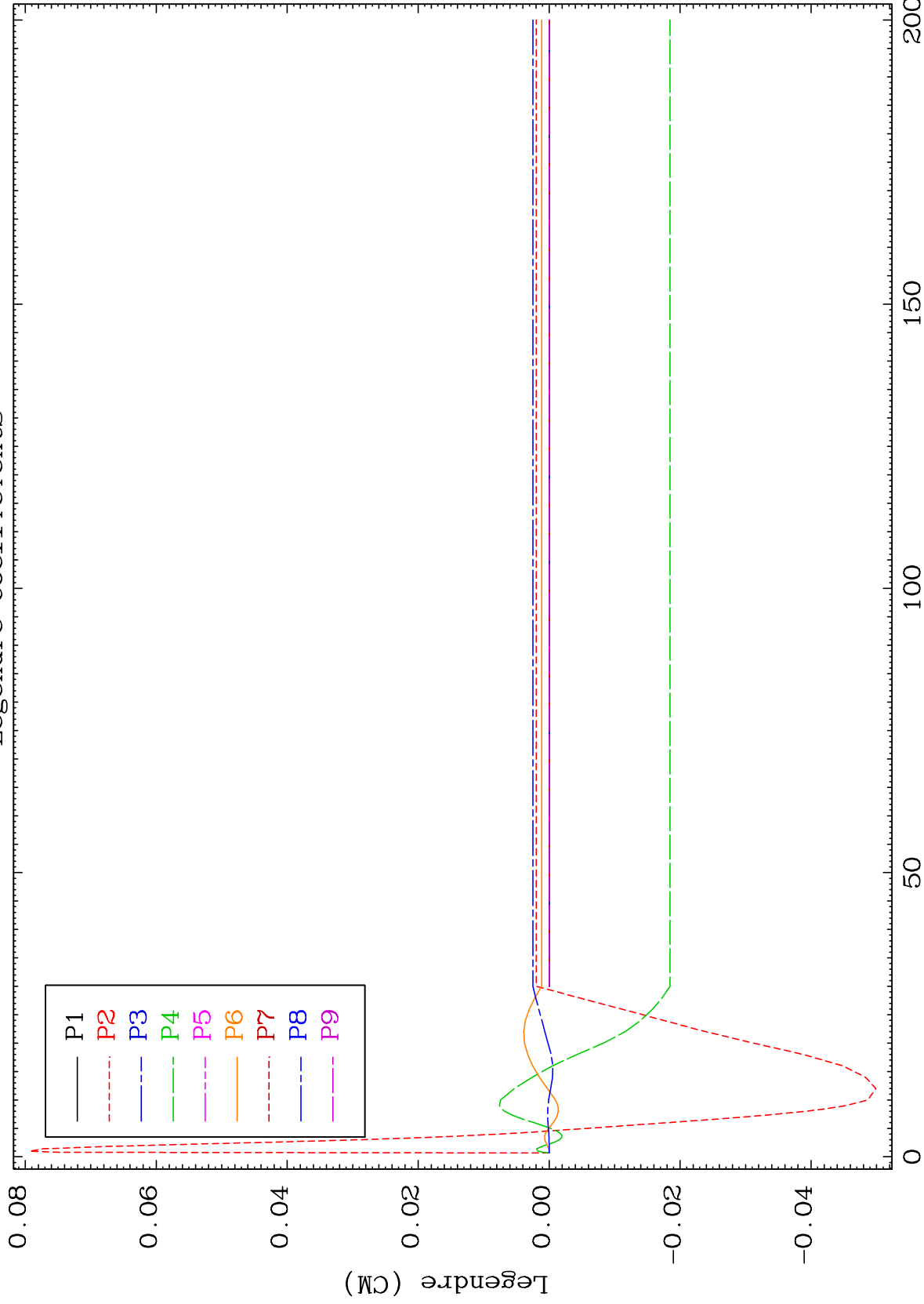
69

54-Xe-123

MAT 5422

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

54-Xe-123



70

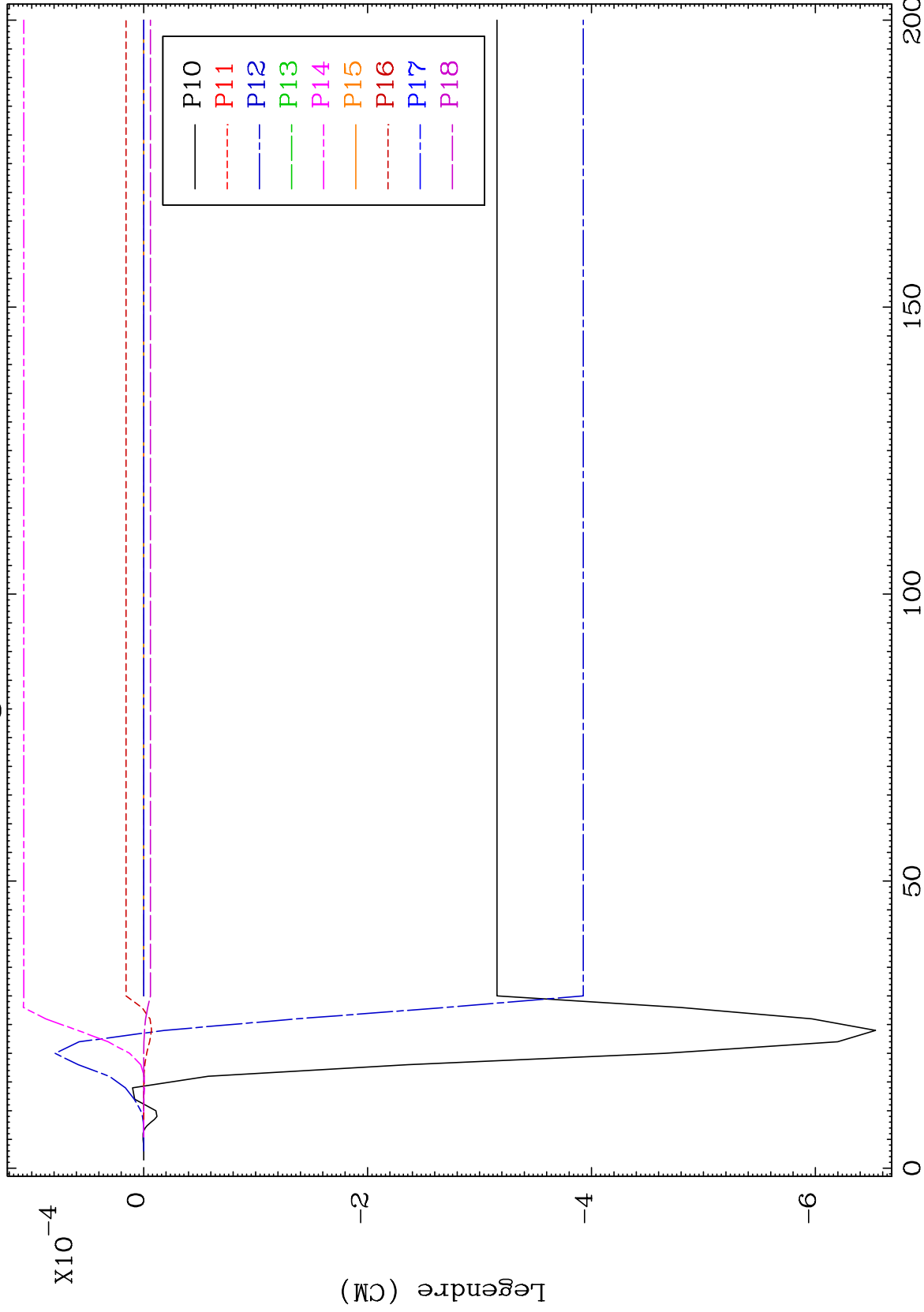
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



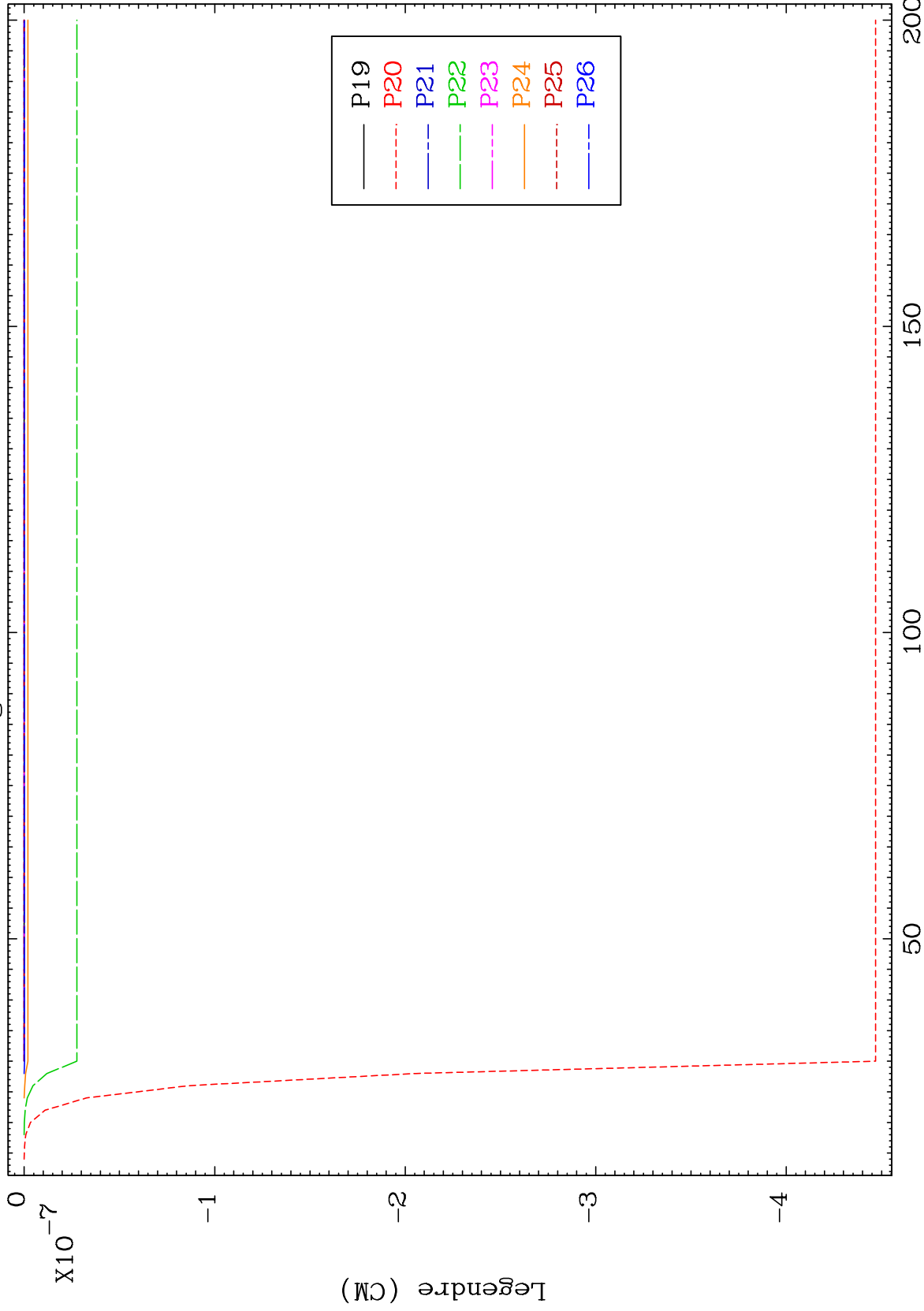
71

54-Xe-123

MAT 5422

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

54-Xe-123



72

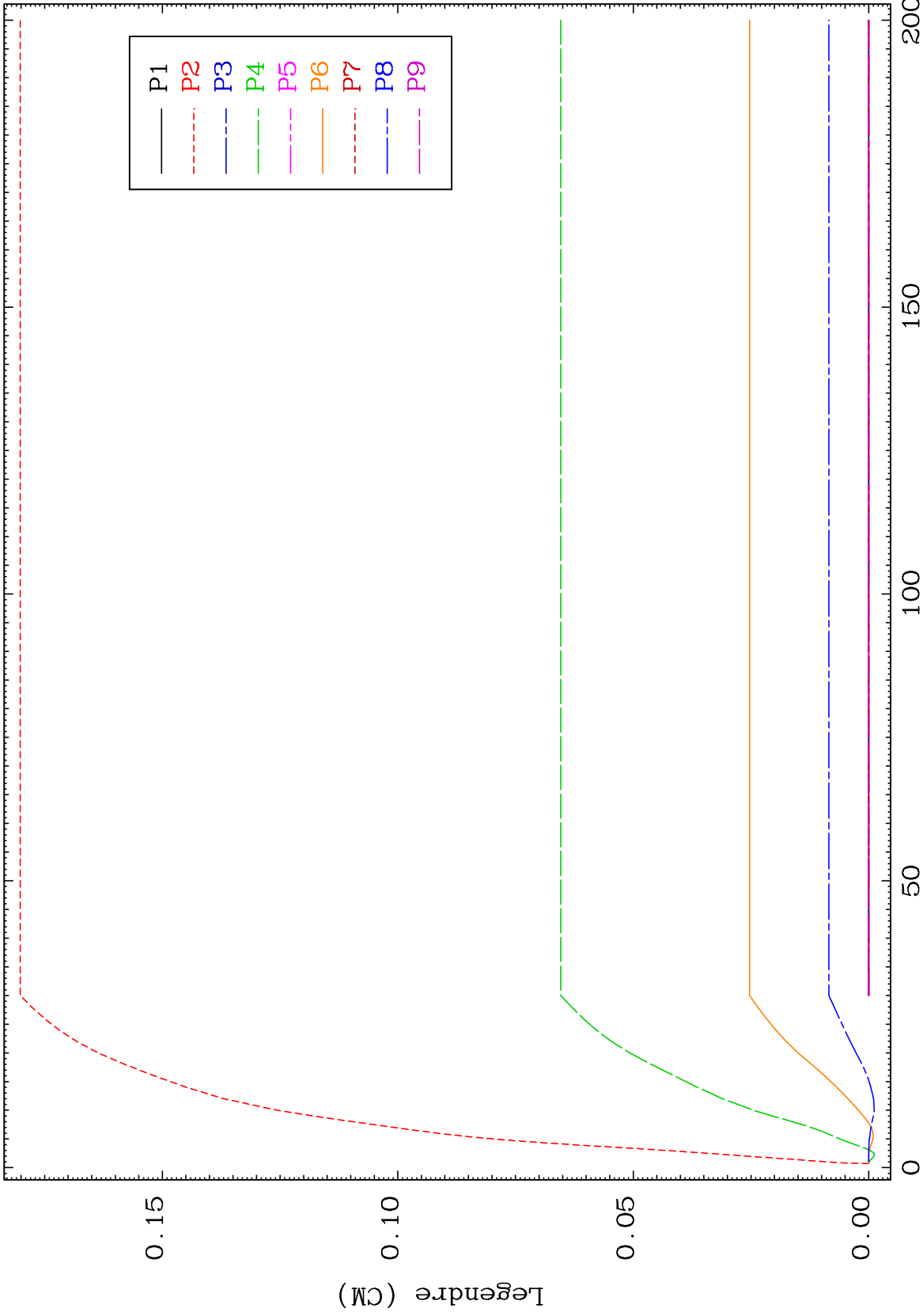
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



73

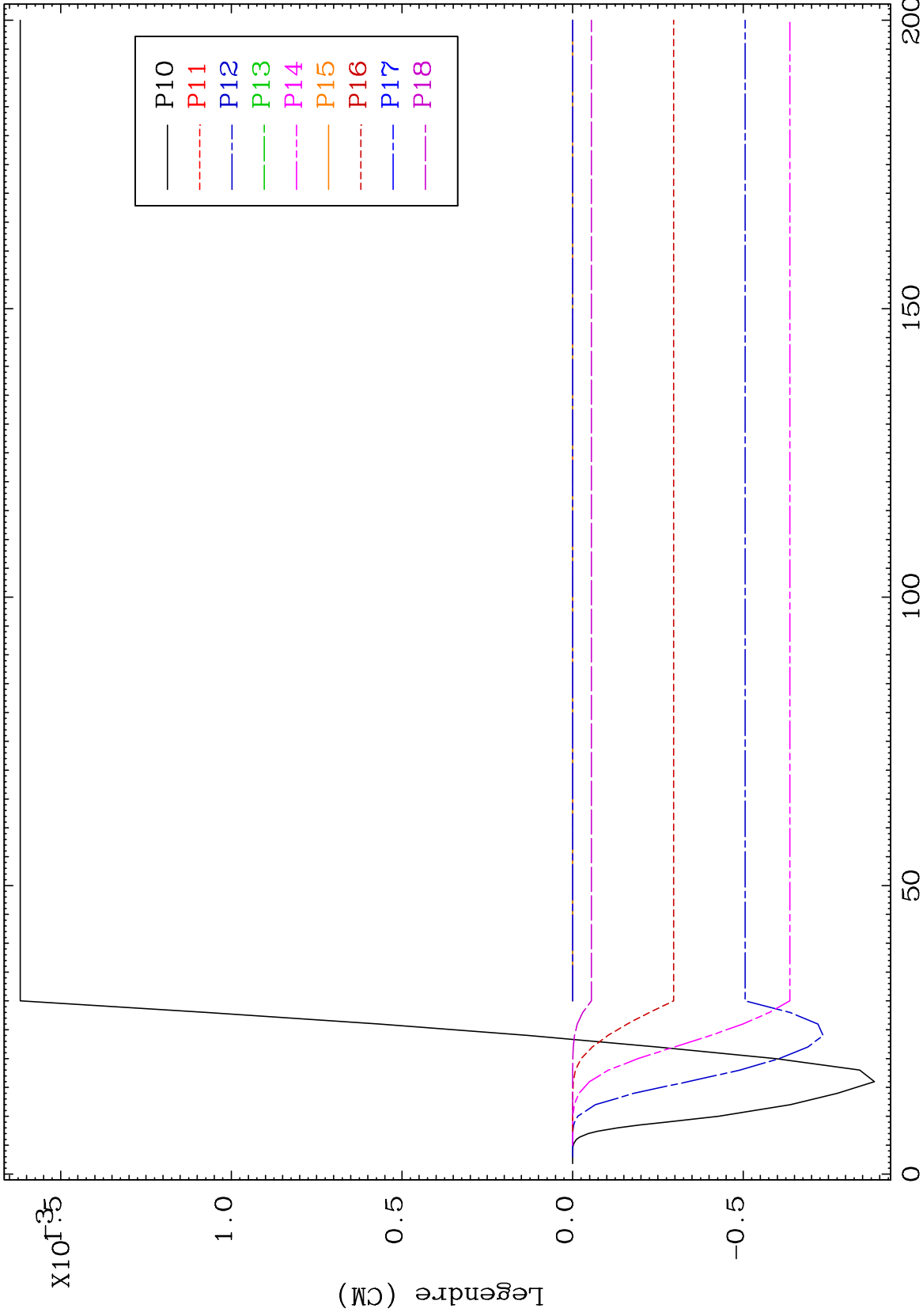
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



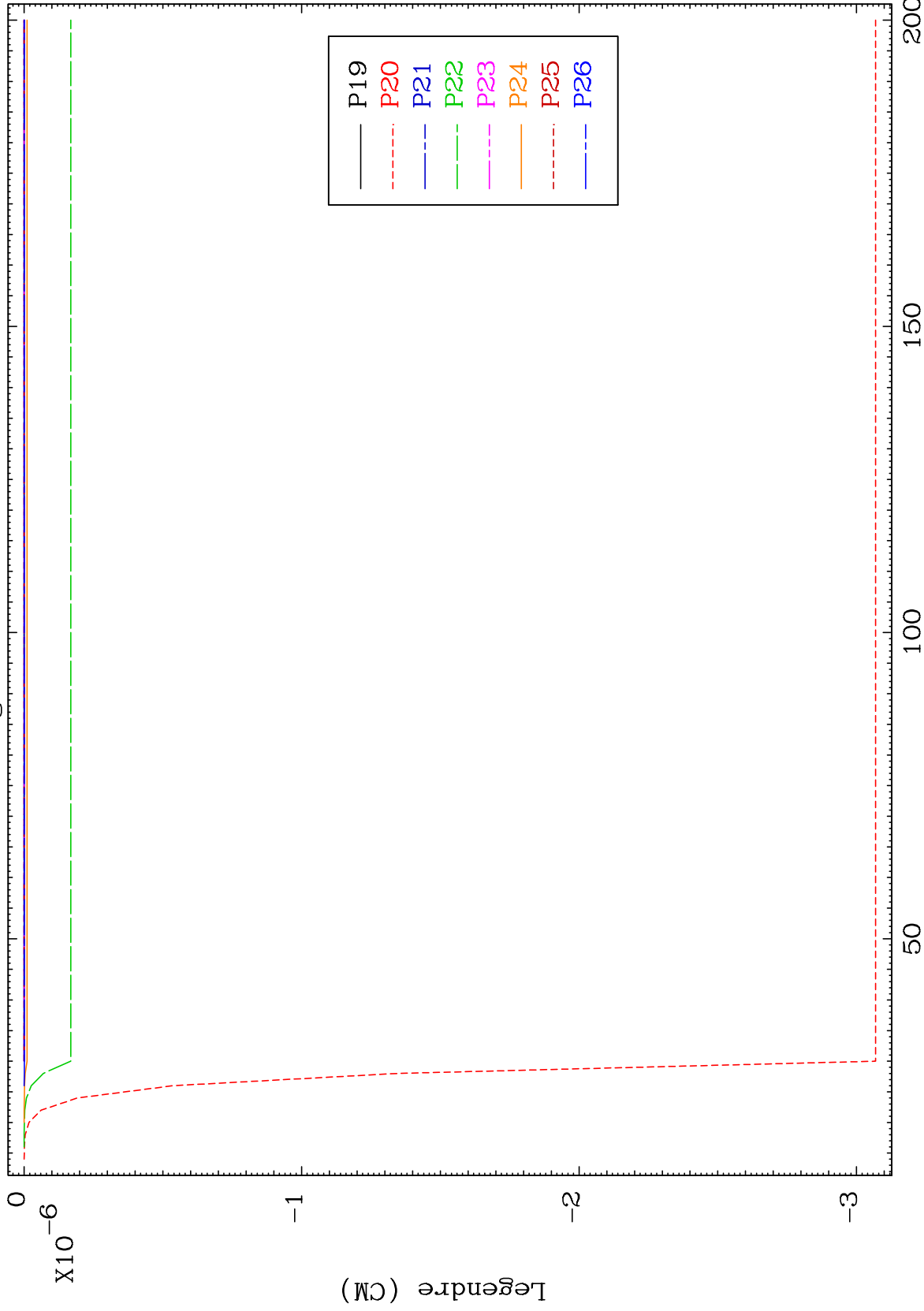
74

54-Xe-123

MAT 5422

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

54-Xe-123



75

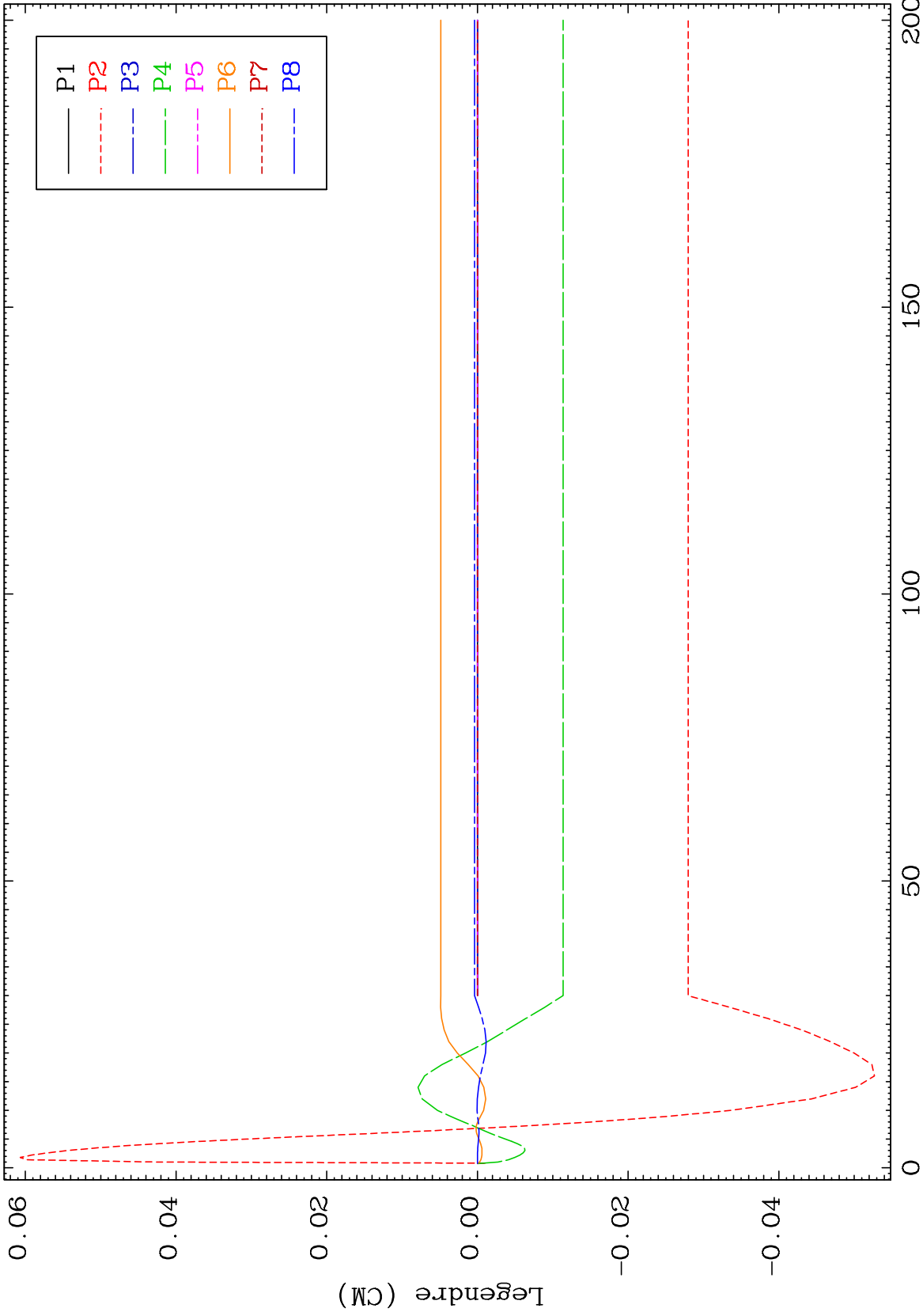
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



76

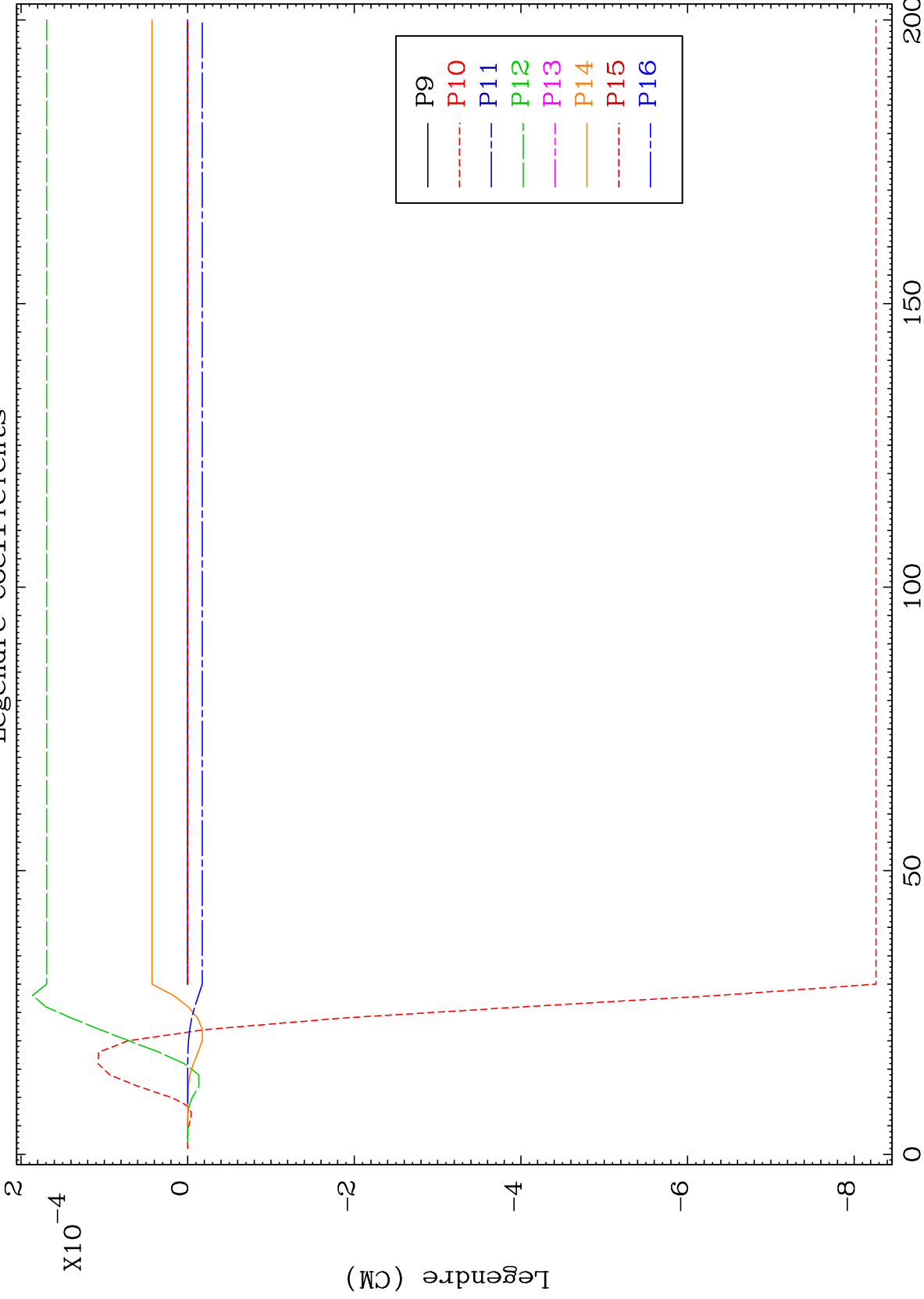
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



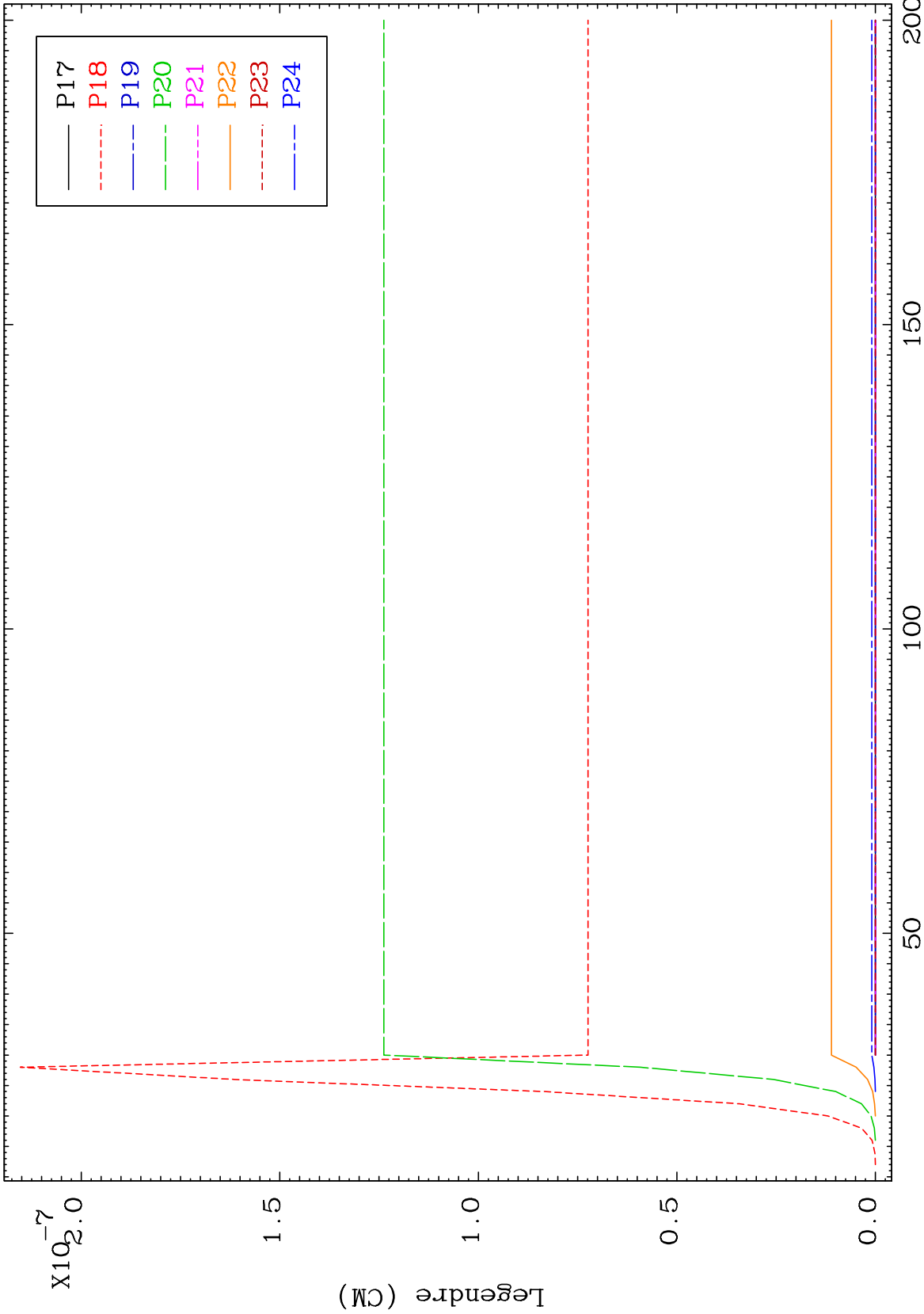
77

54-Xe-123

MAT 5422

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

54-Xe-123



78

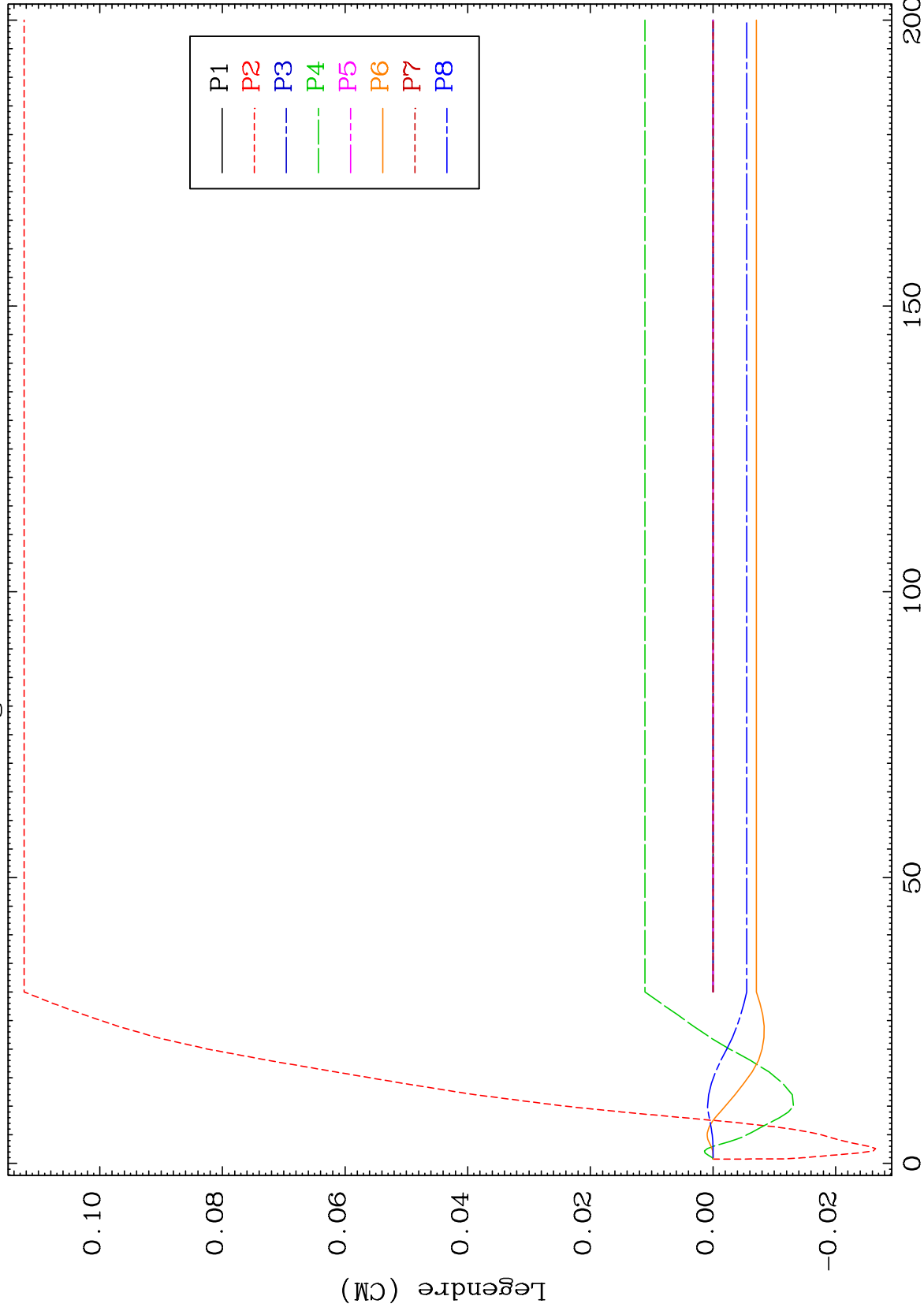
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



79

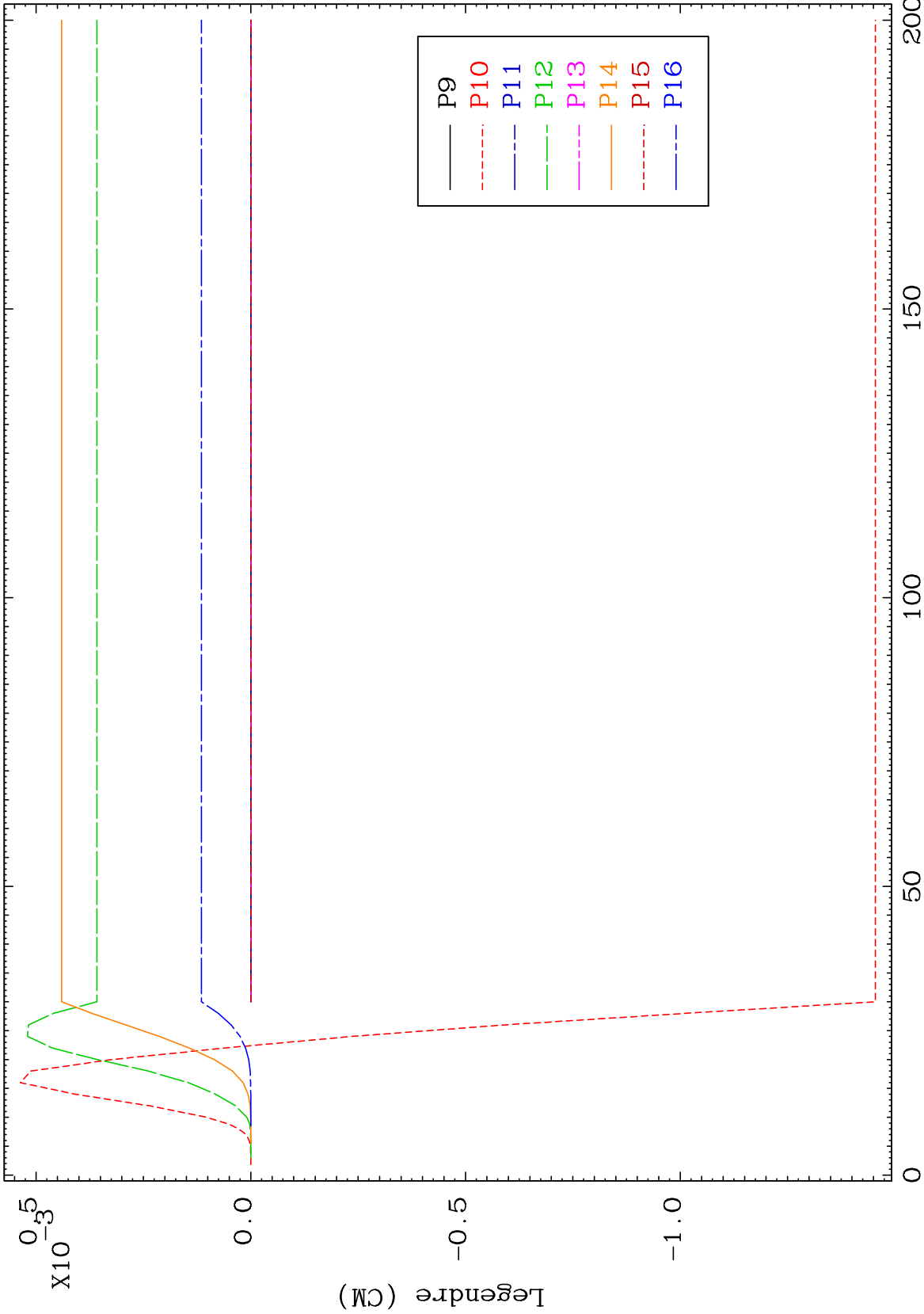
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



80

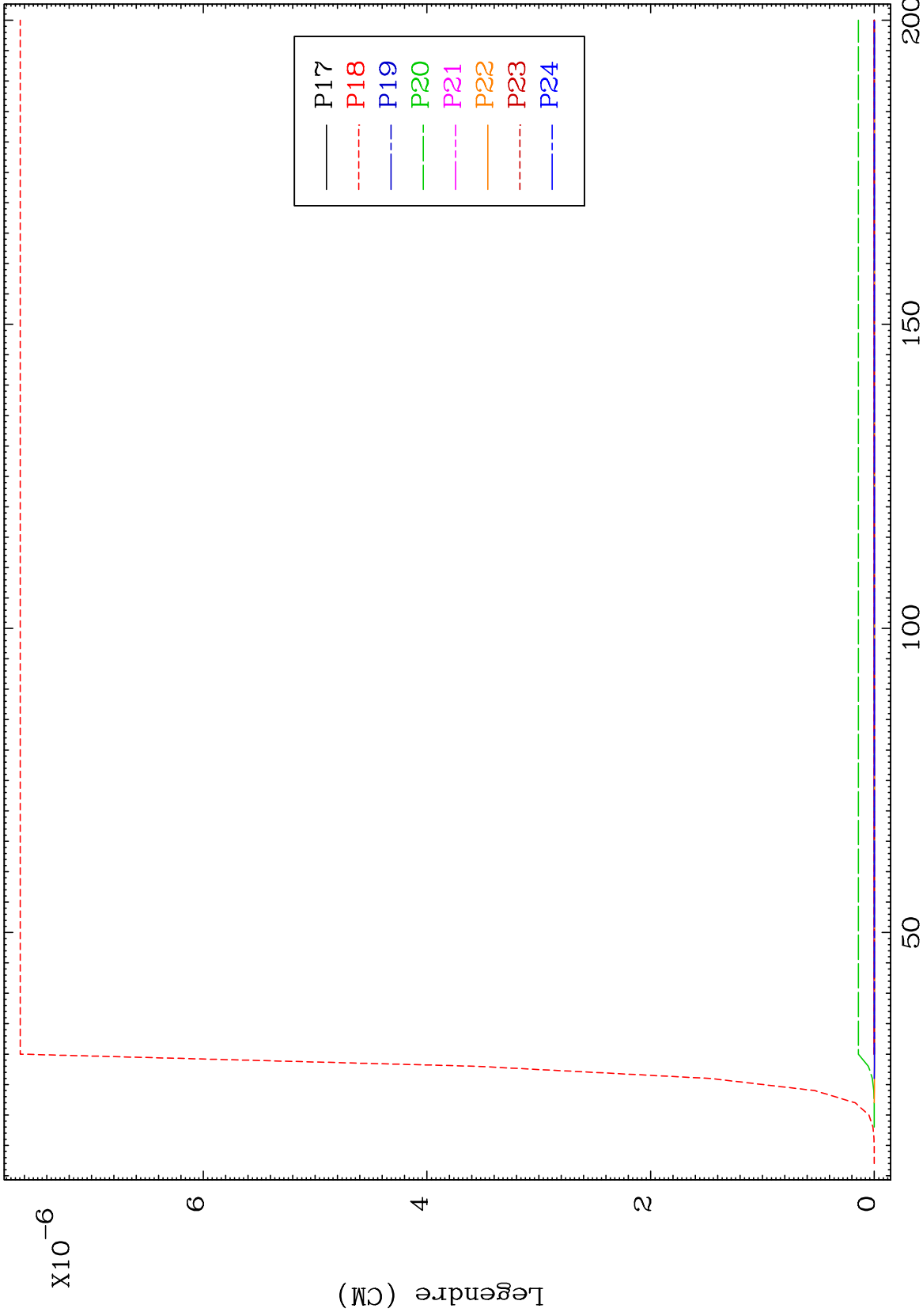
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



81

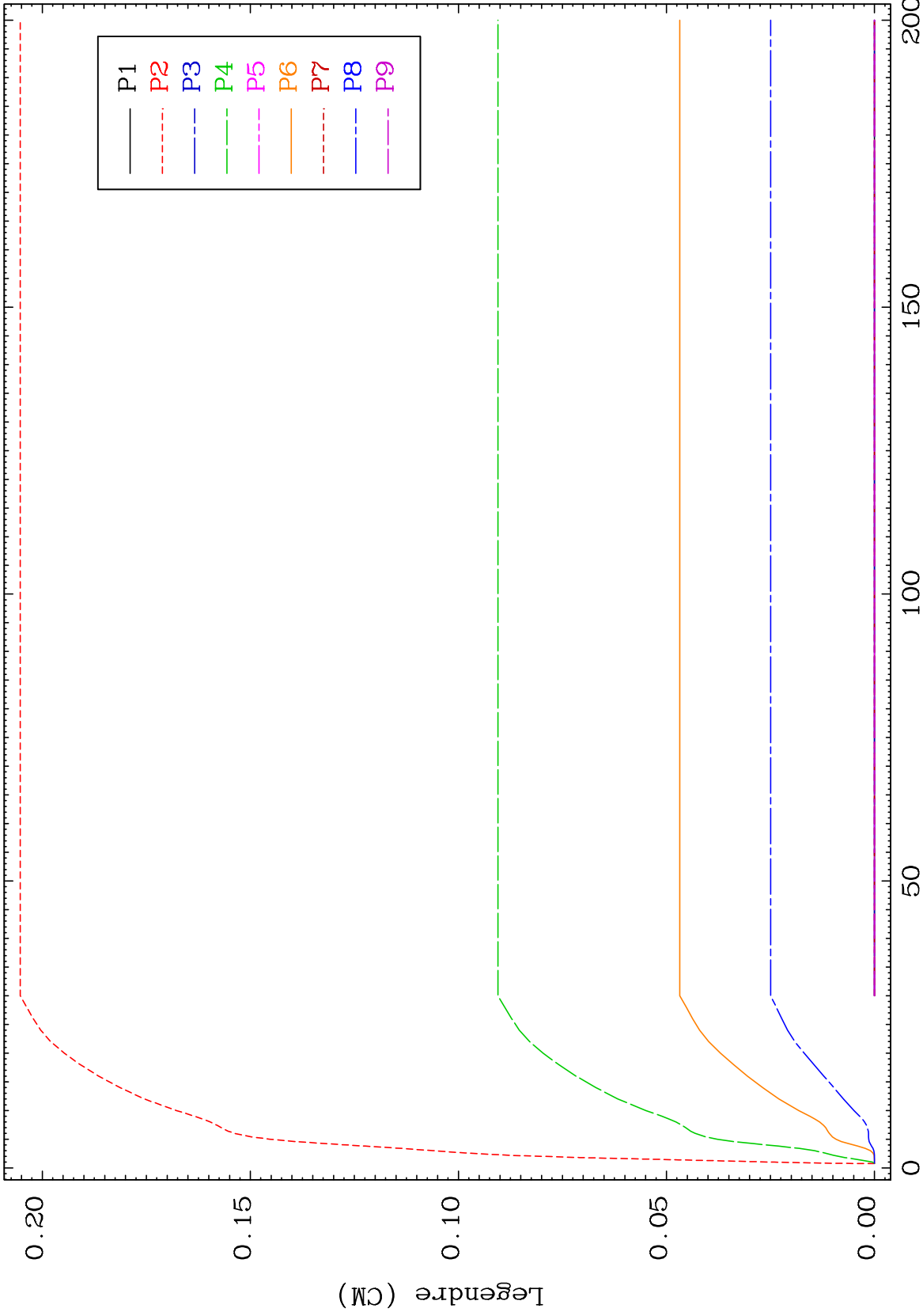
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



82

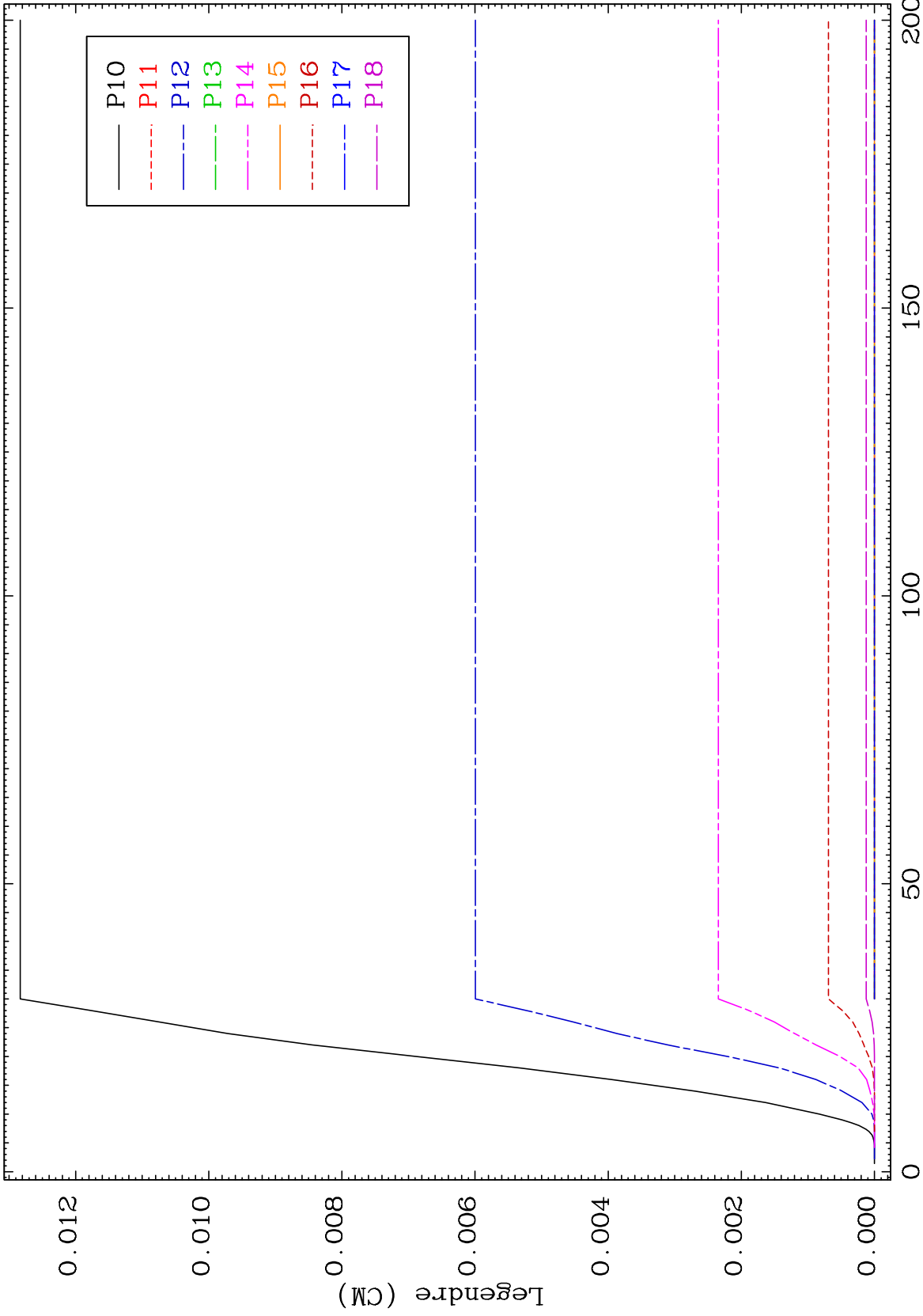
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



83

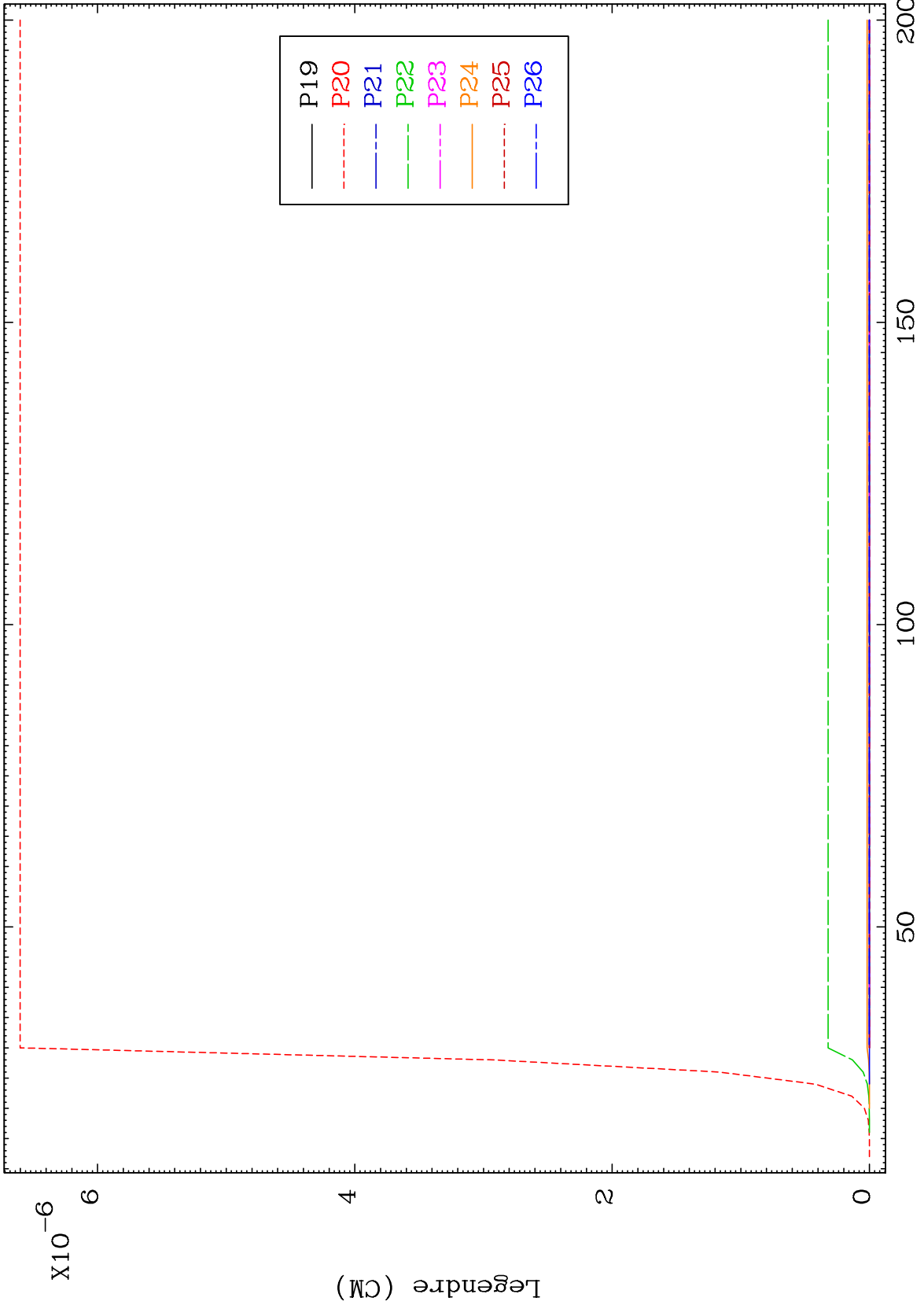
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



84

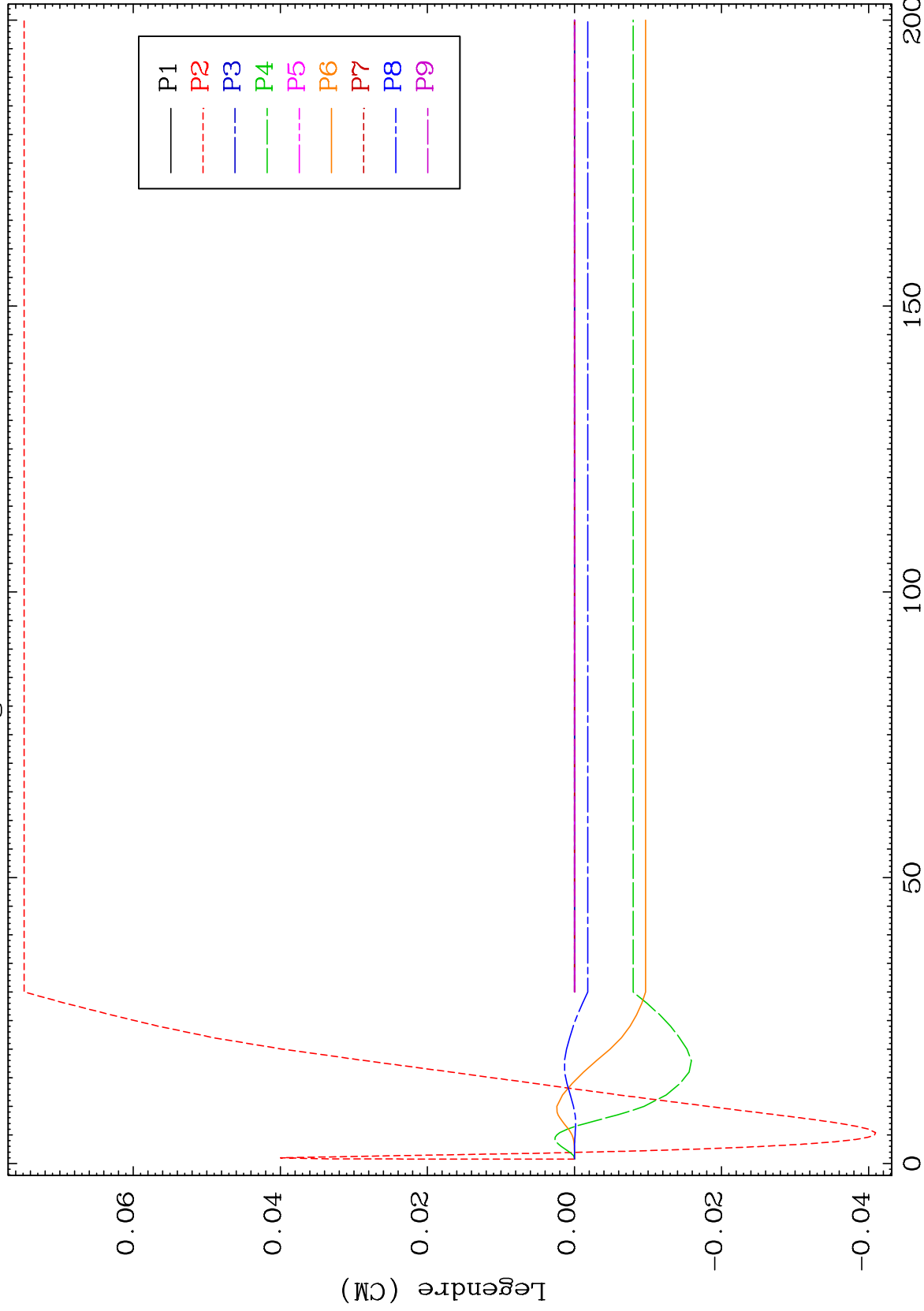
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



85

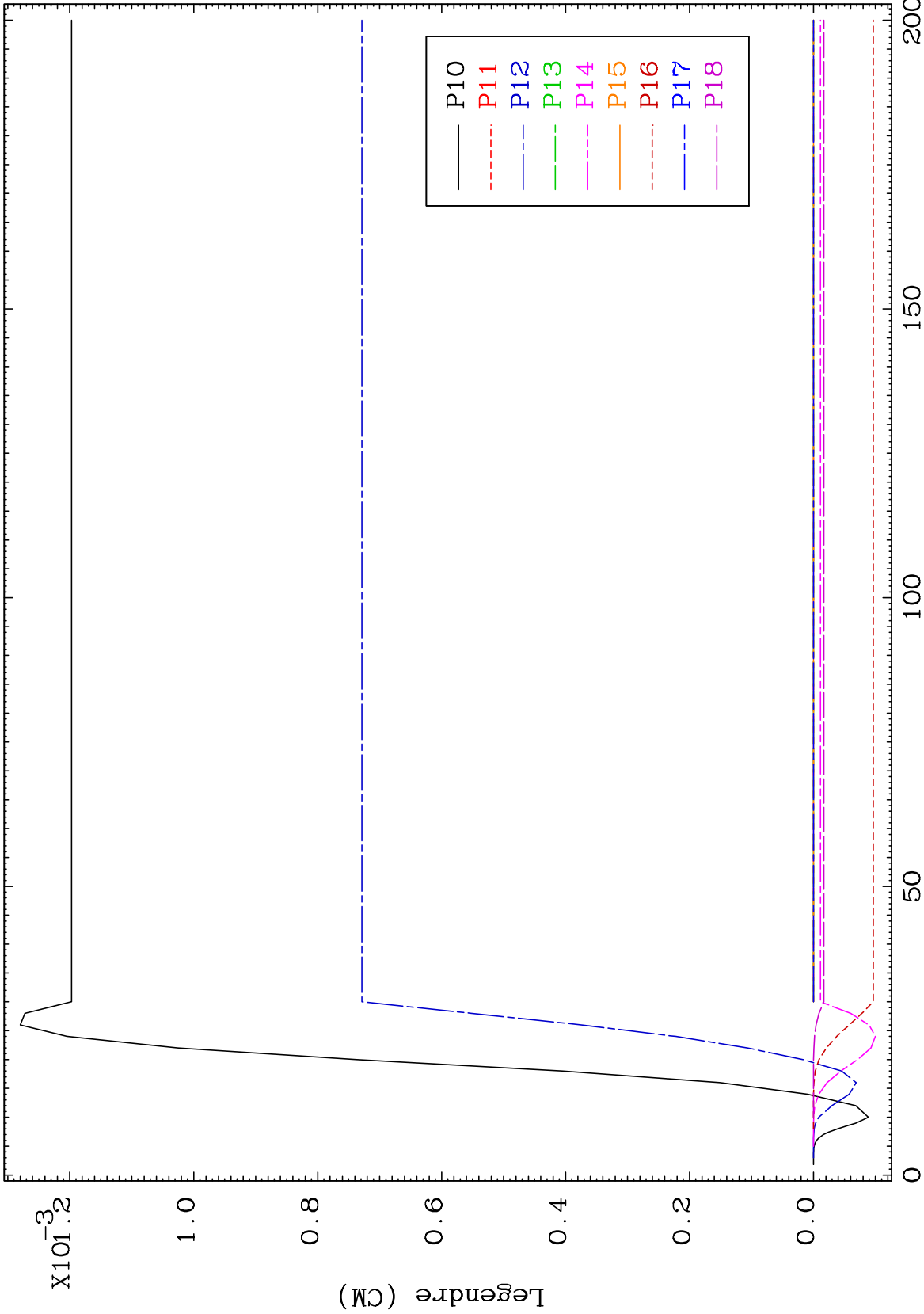
54-Xe-123

200

MAT 5422

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

54-Xe-123



86

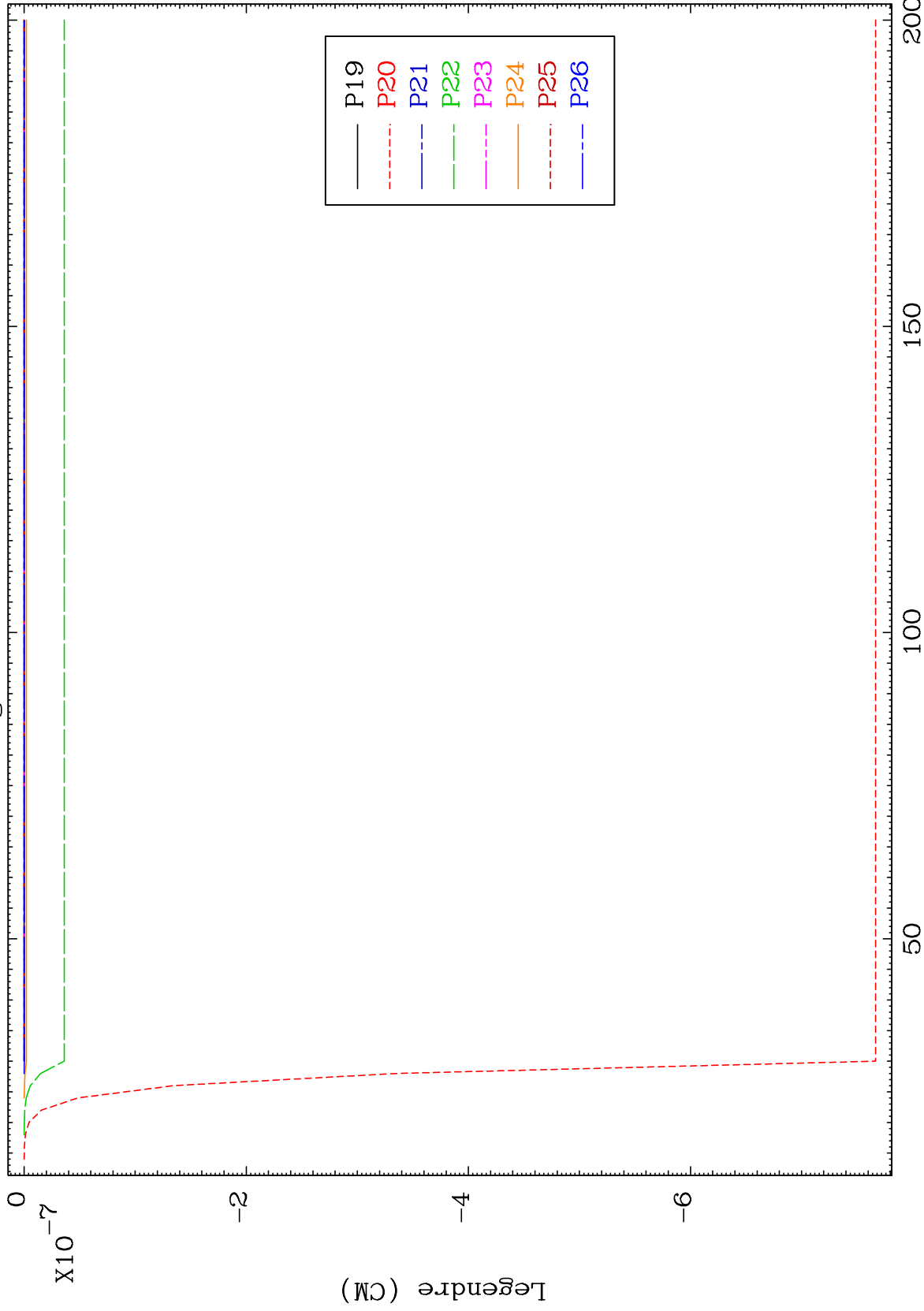
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



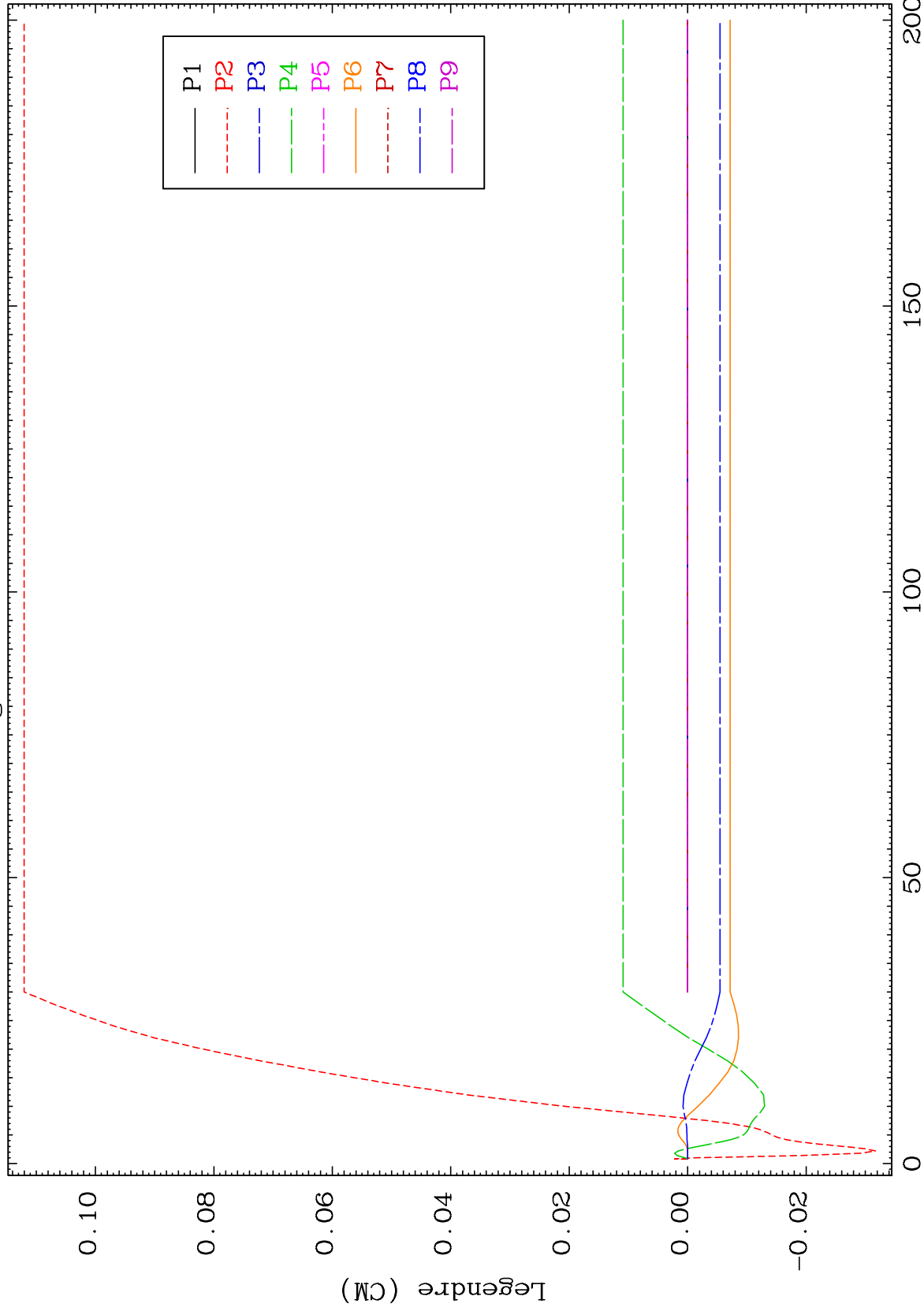
87

54-Xe-123

MAT 5422

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

54-Xe-123



88

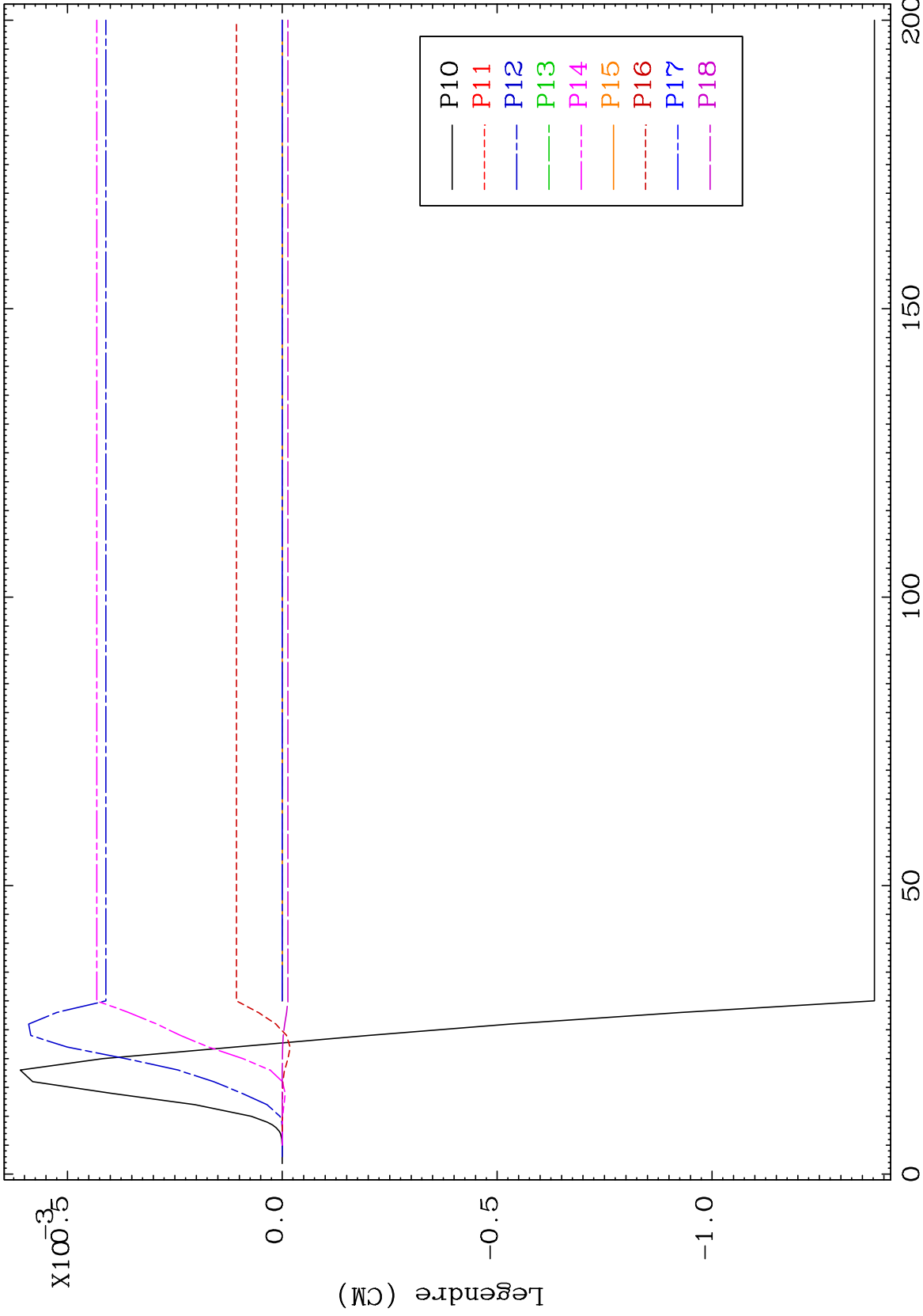
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



89

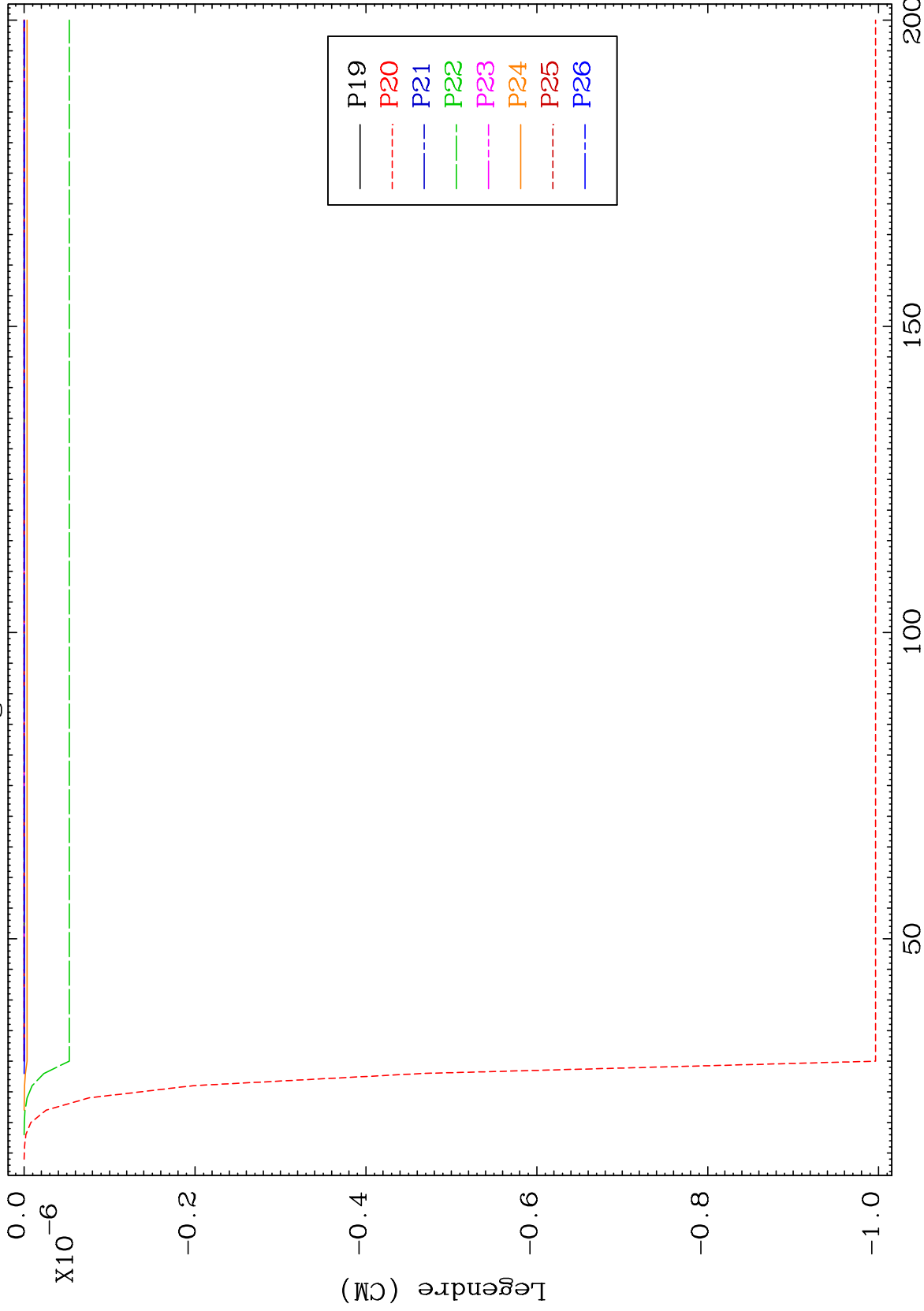
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



90

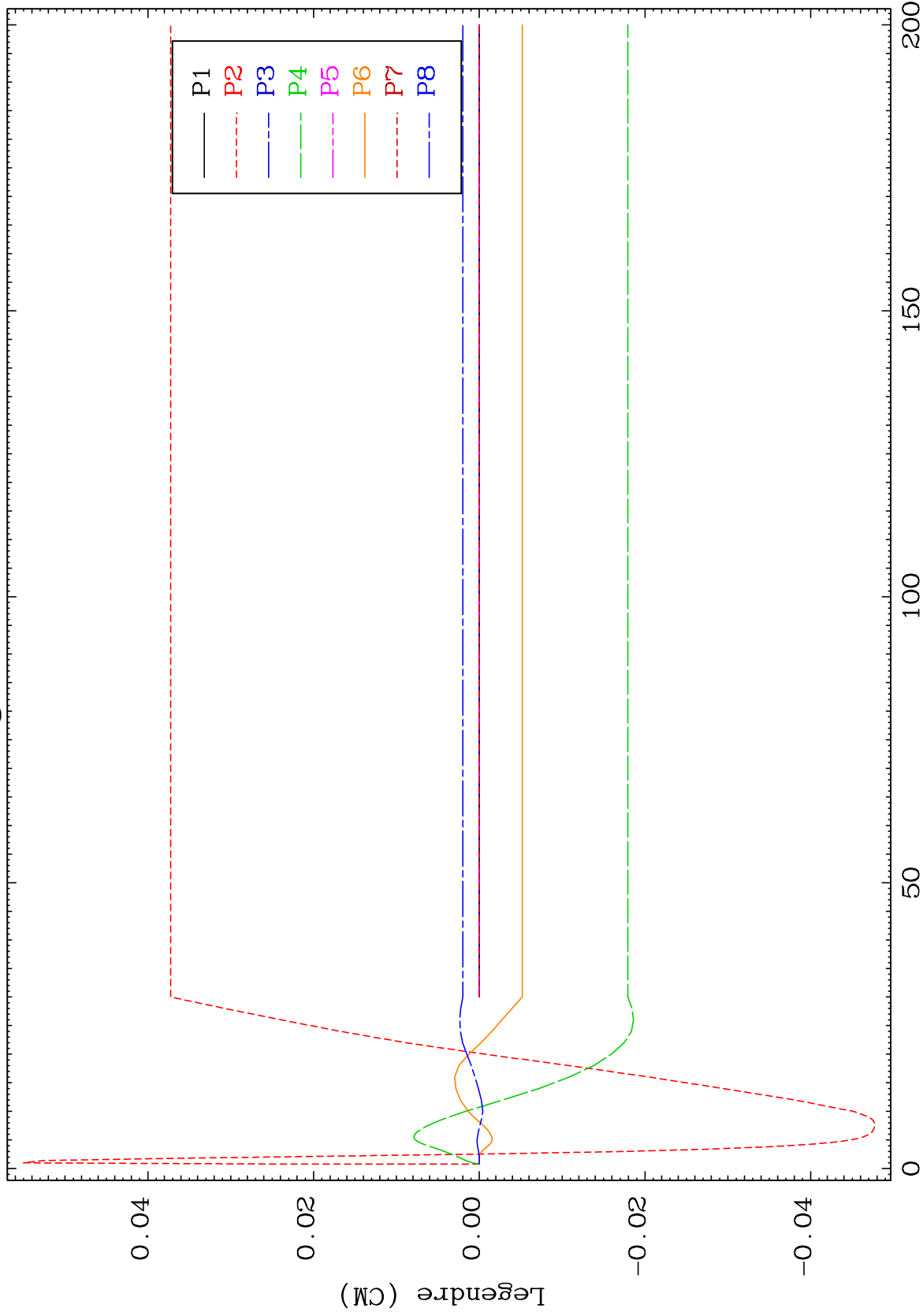
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



91

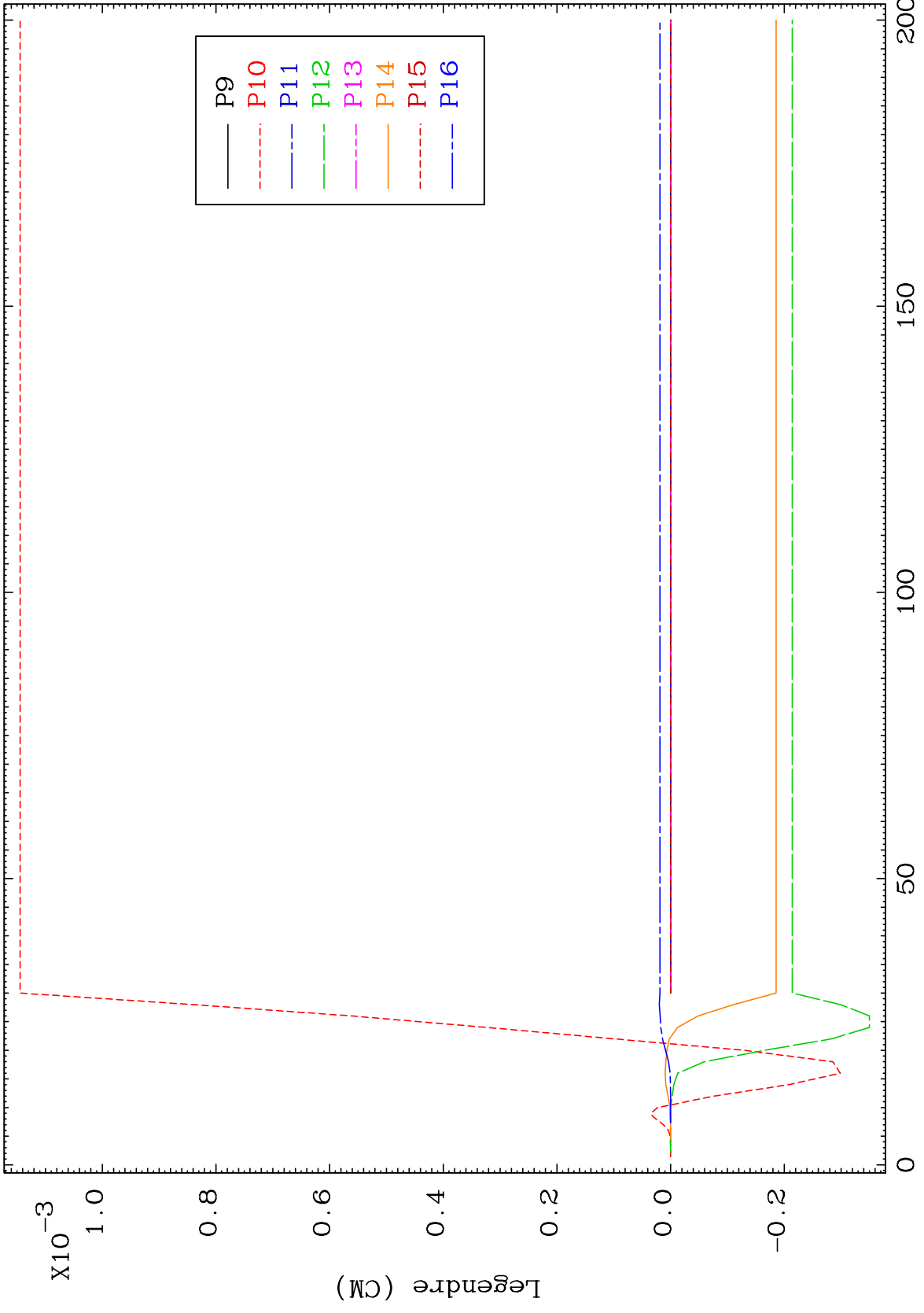
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



92

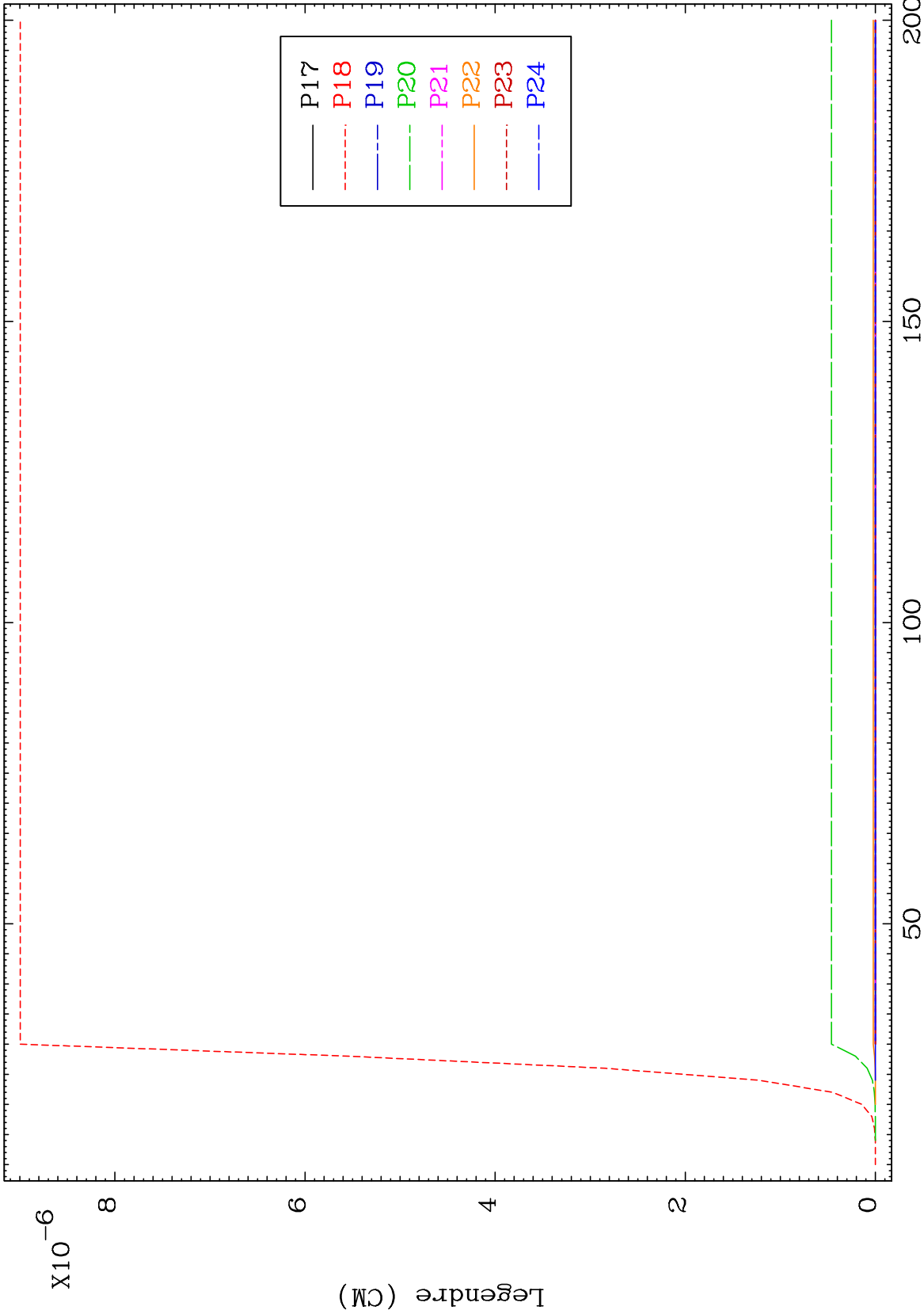
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



93

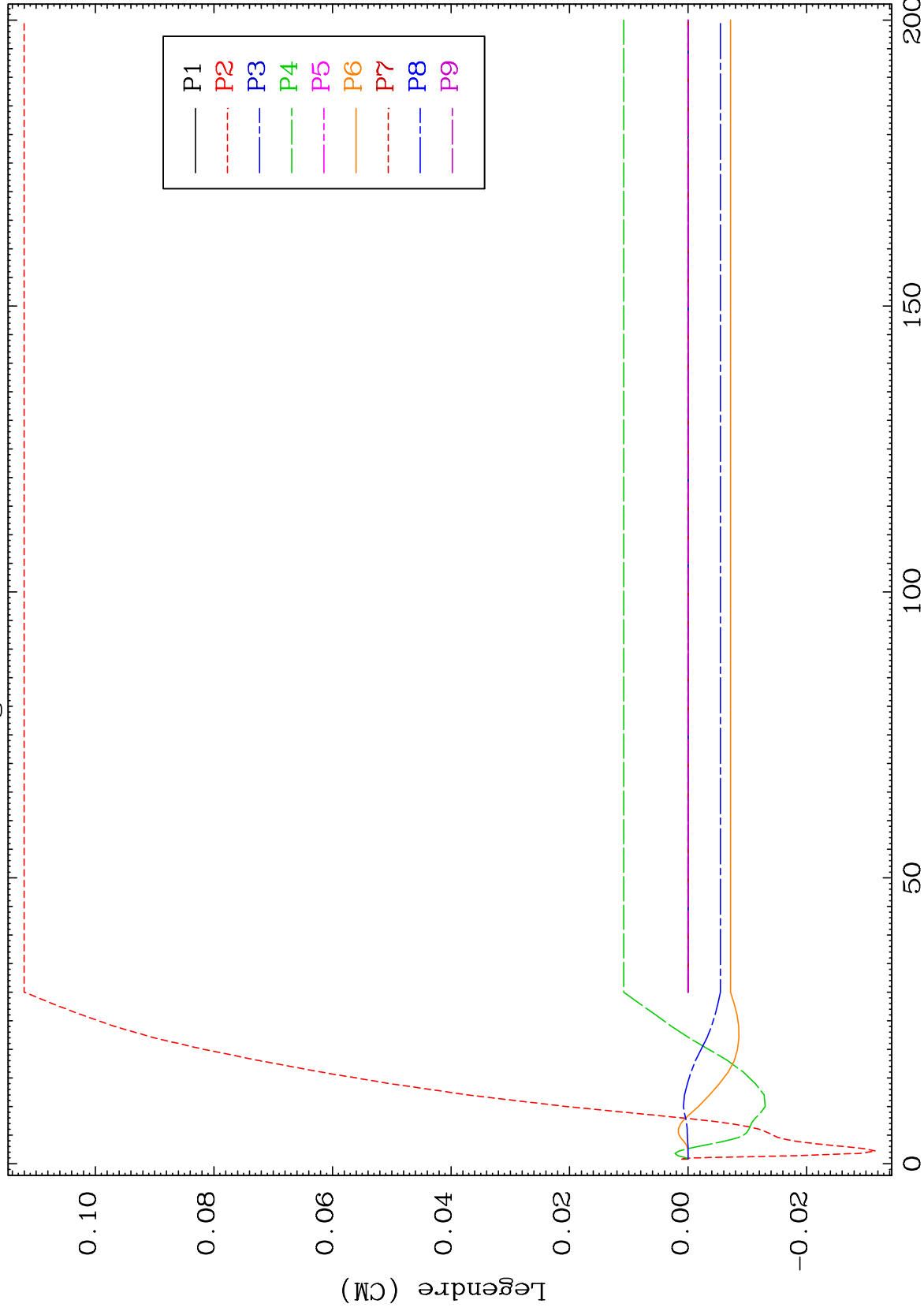
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



94

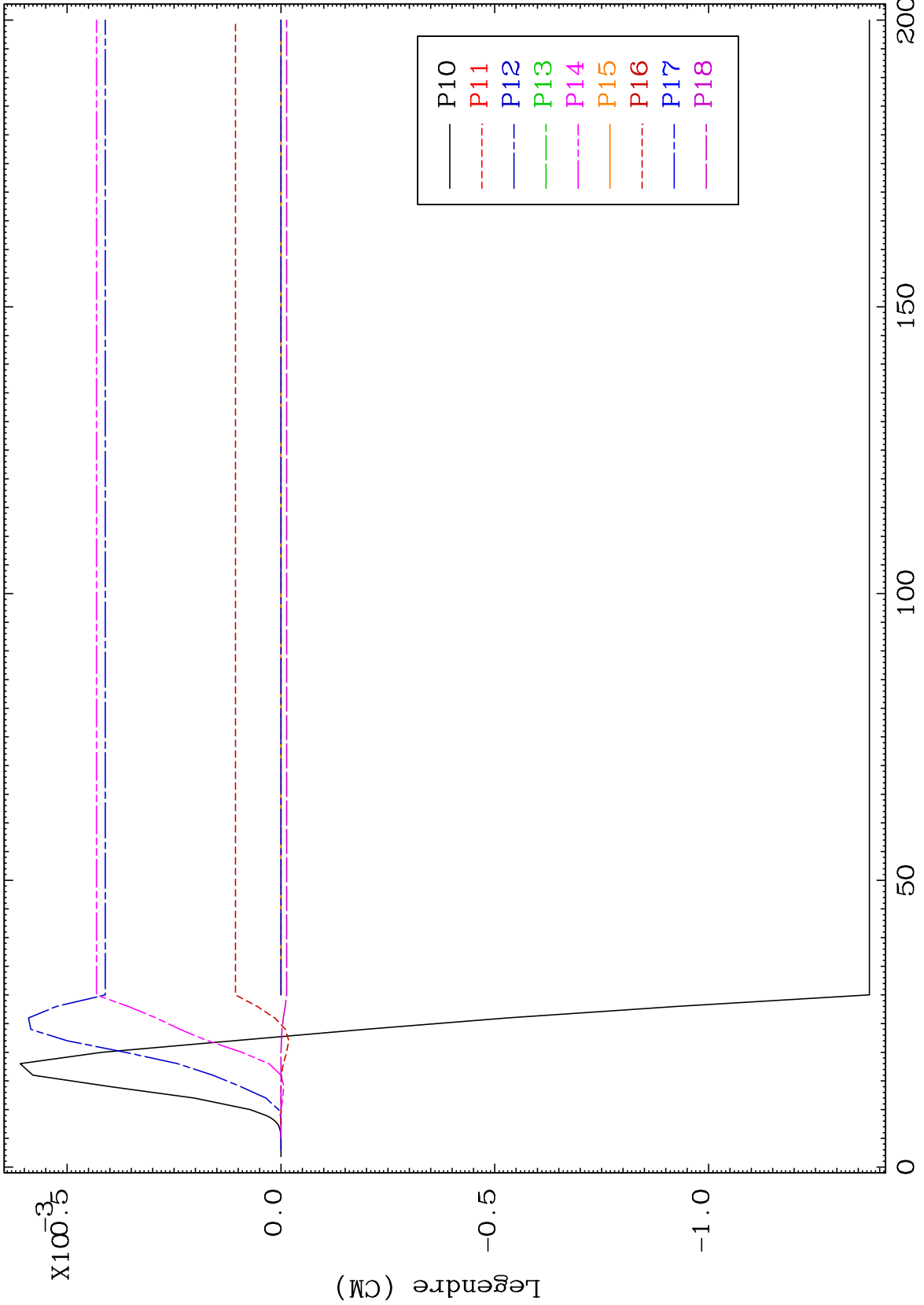
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



95

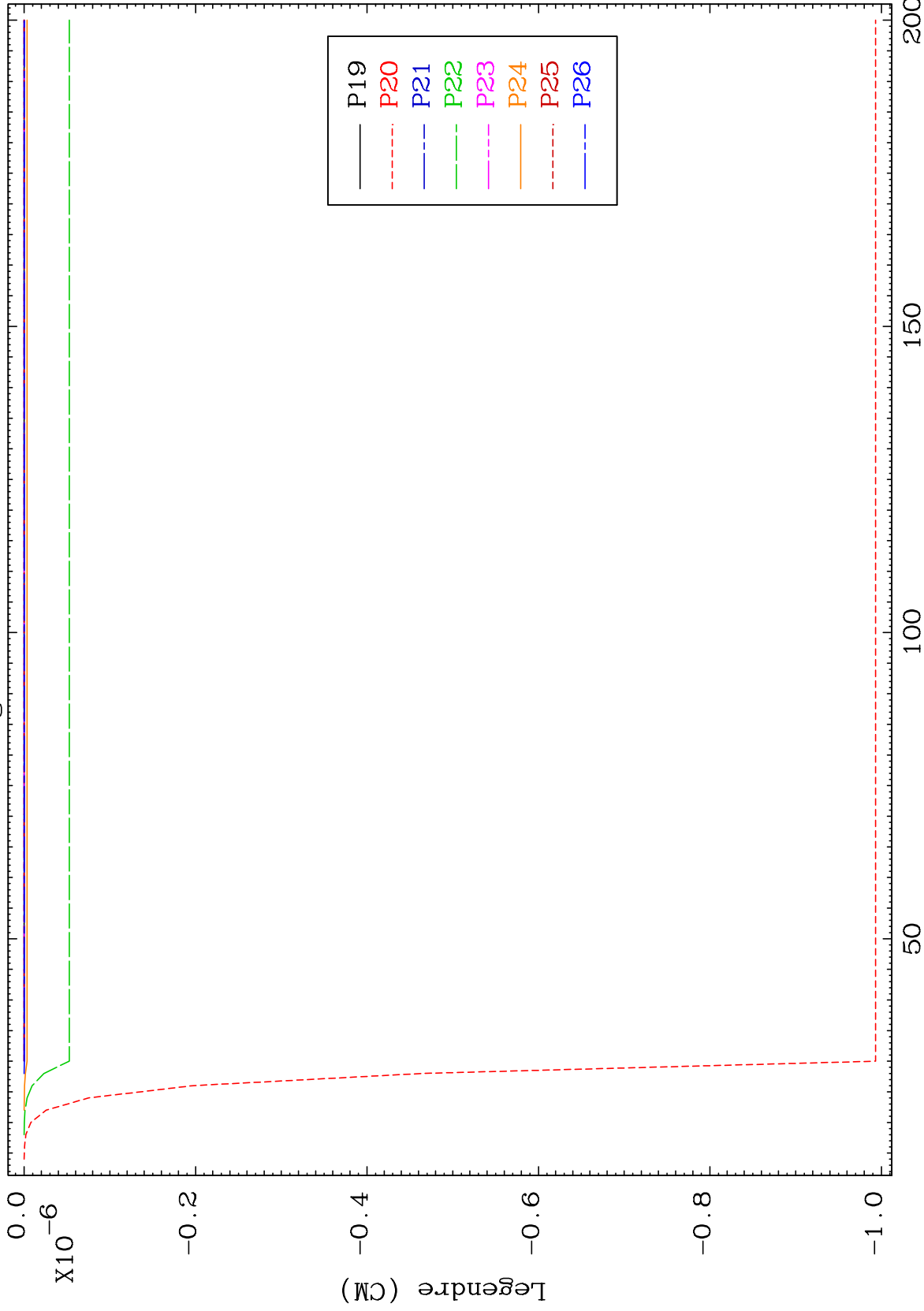
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



96

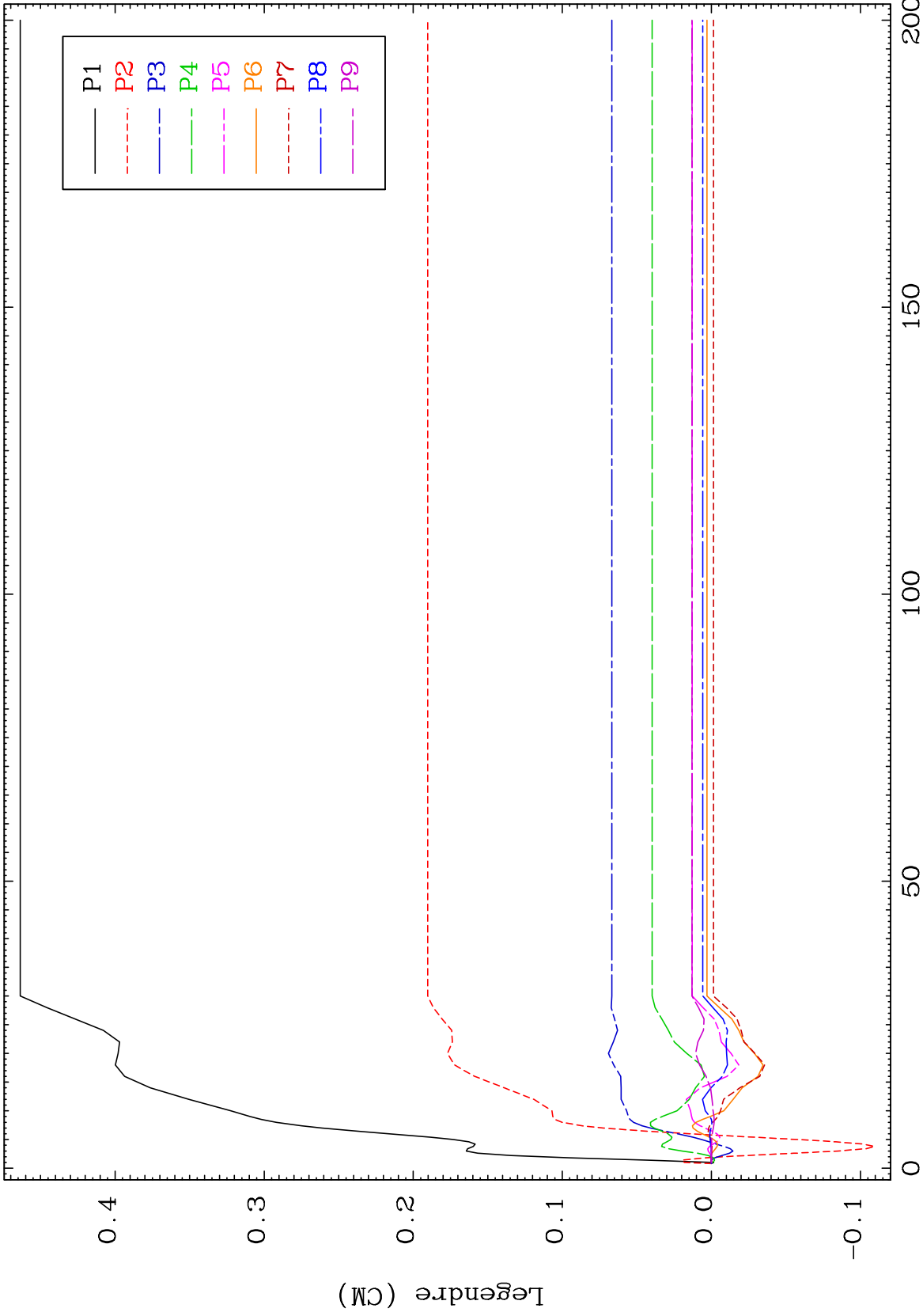
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



97

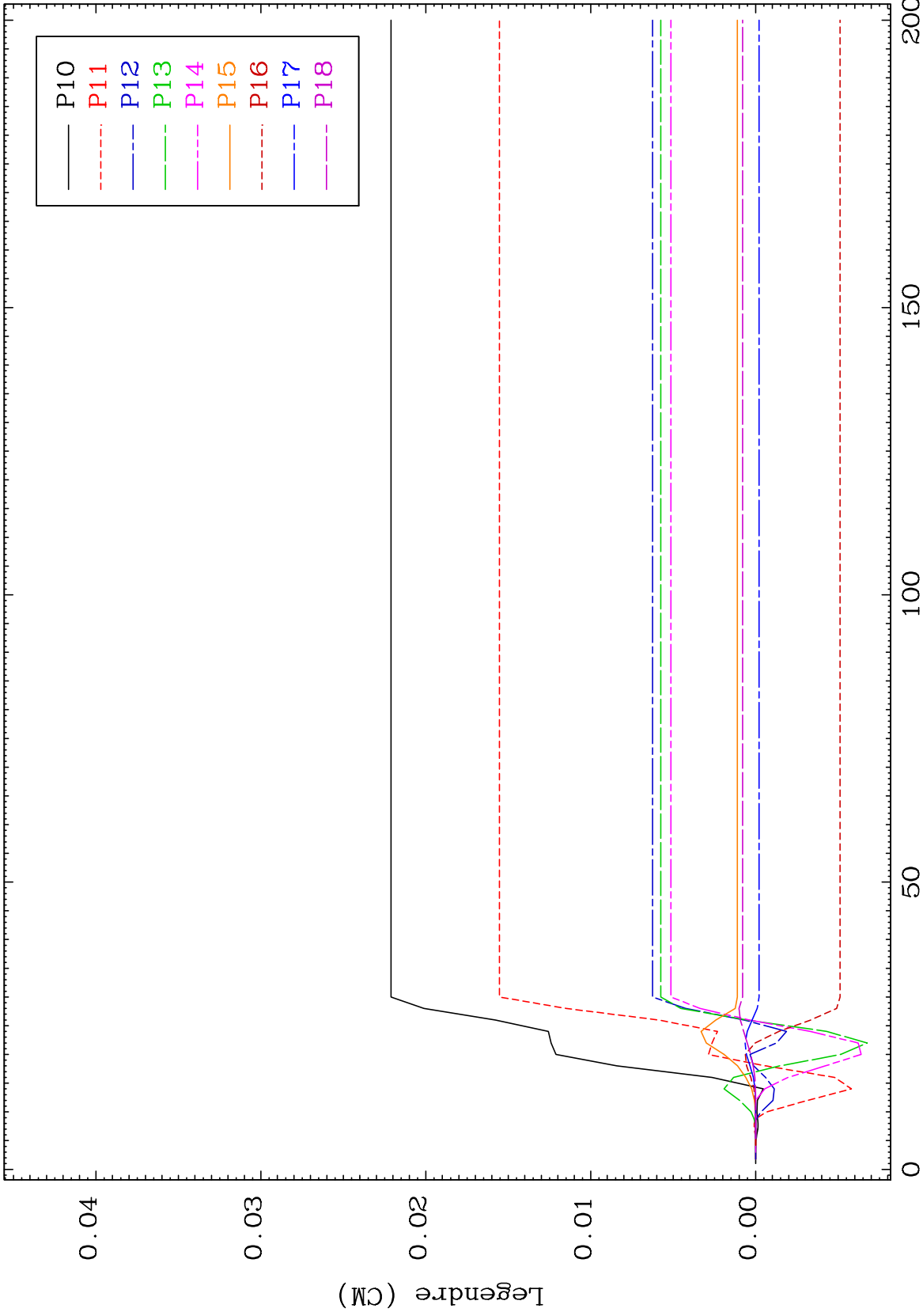
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



98

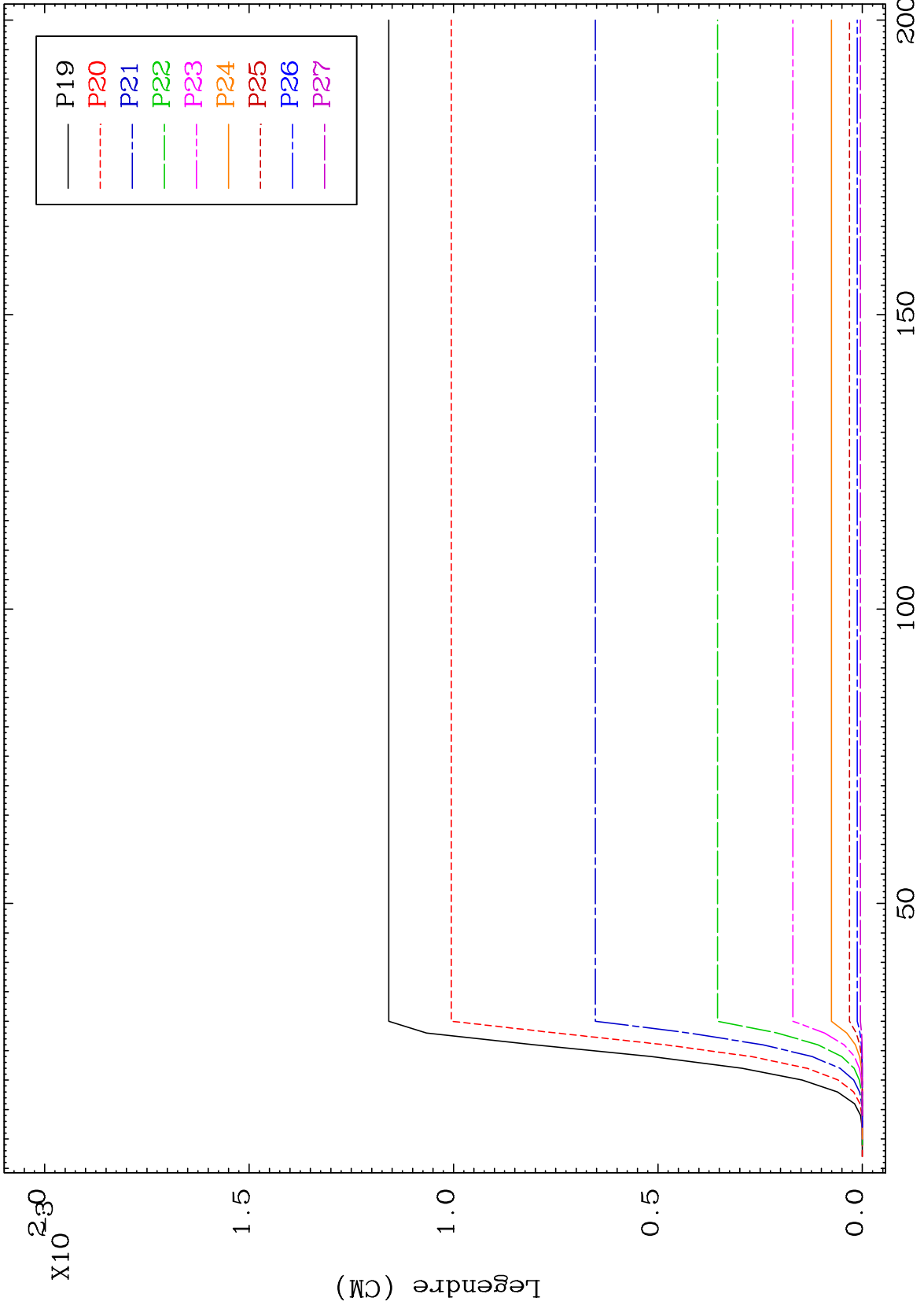
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



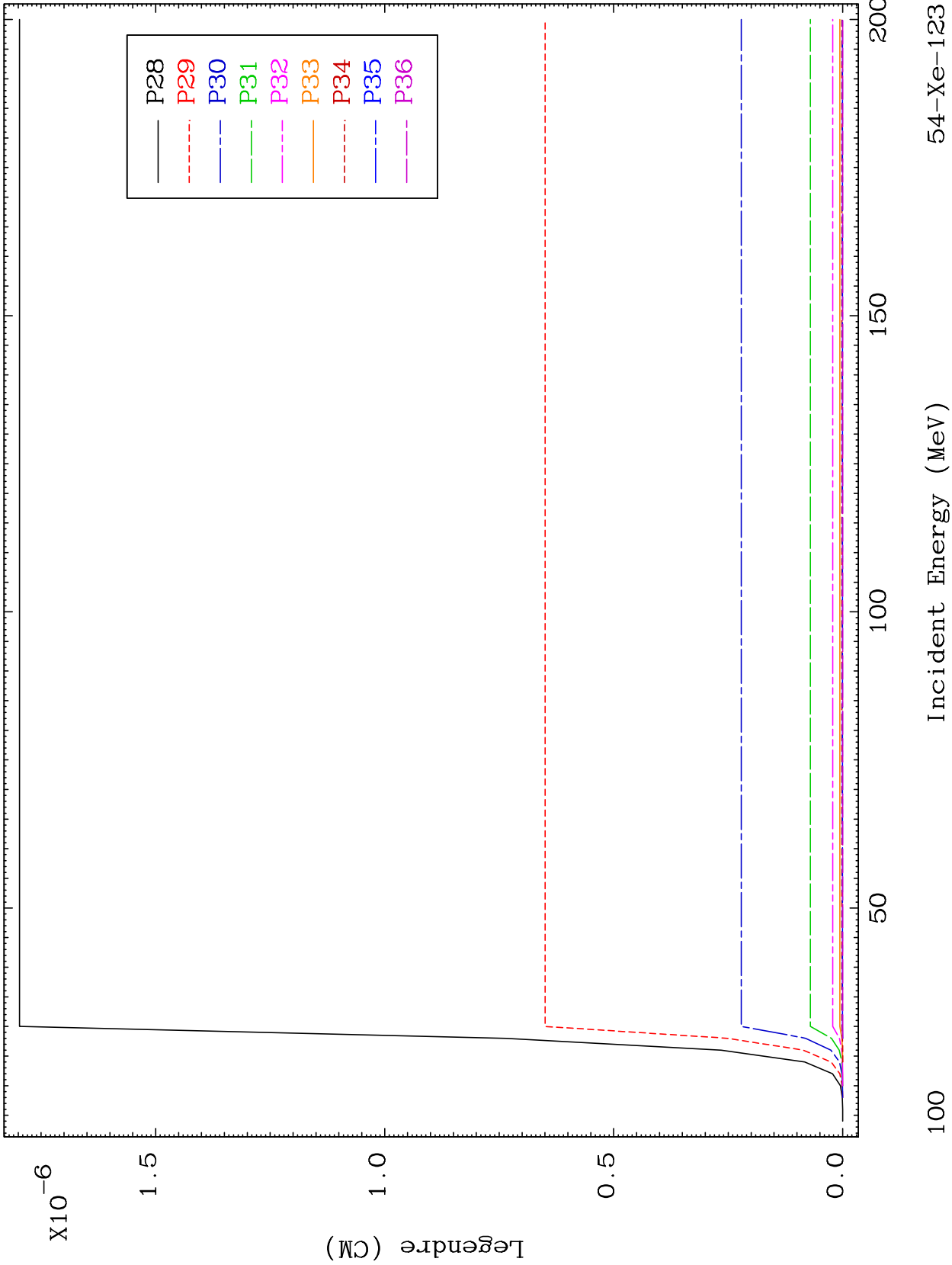
99

54-Xe-123

MAT 5422

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

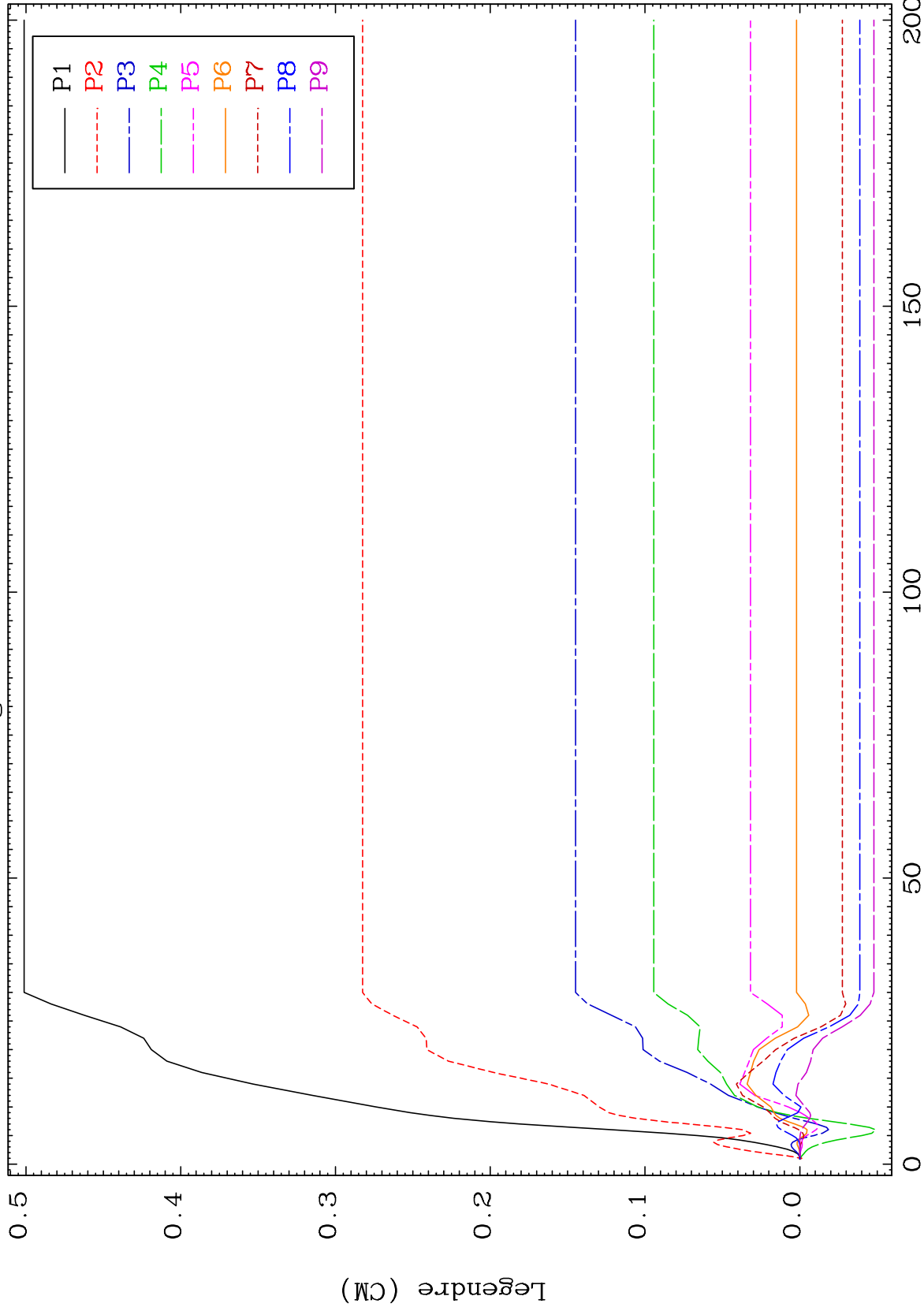
54-Xe-123



MAT 5422

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

54-Xe-123



54-Xe-123

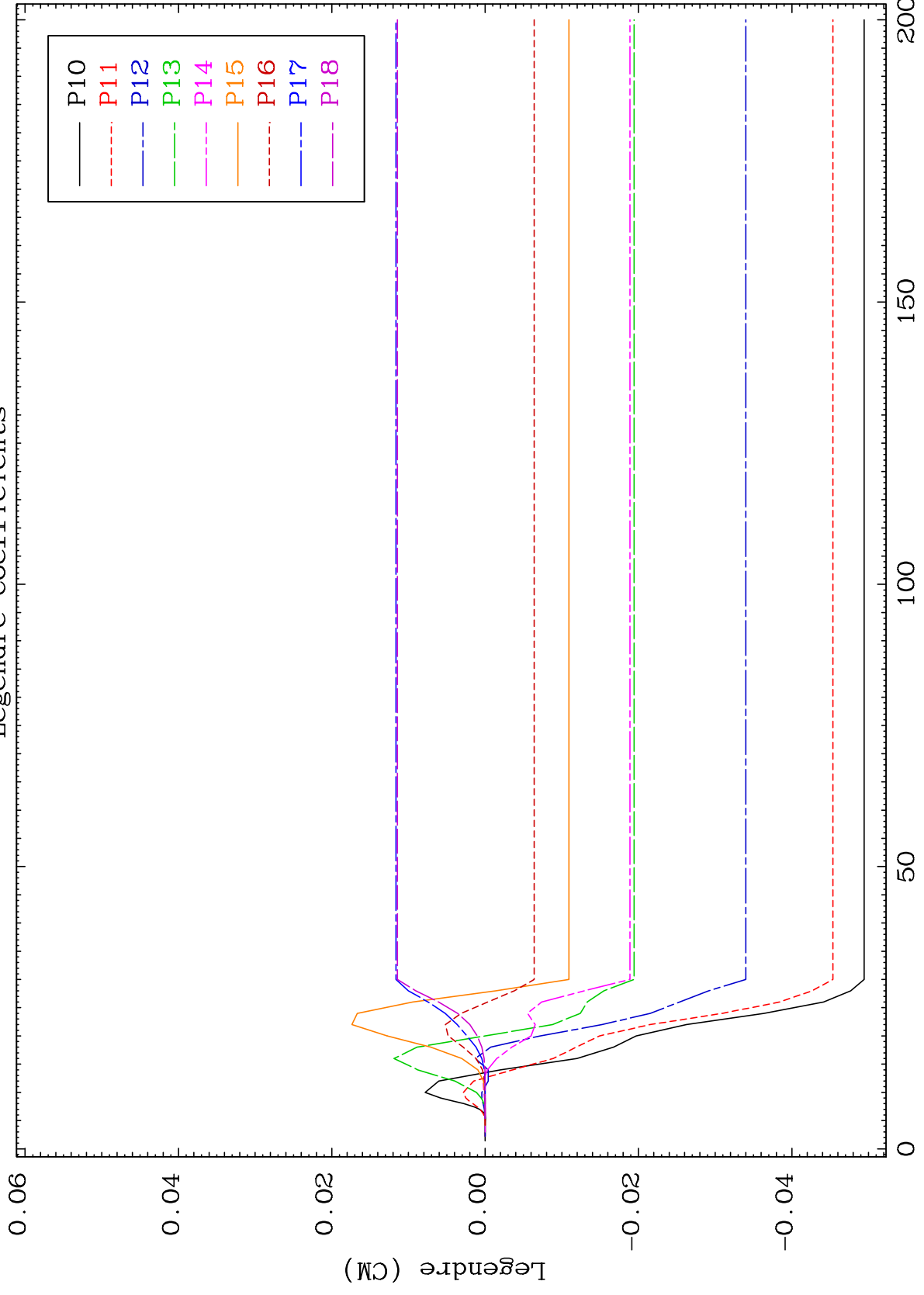
Incident Energy (MeV)

101

MAT 5422

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

54-Xe-123

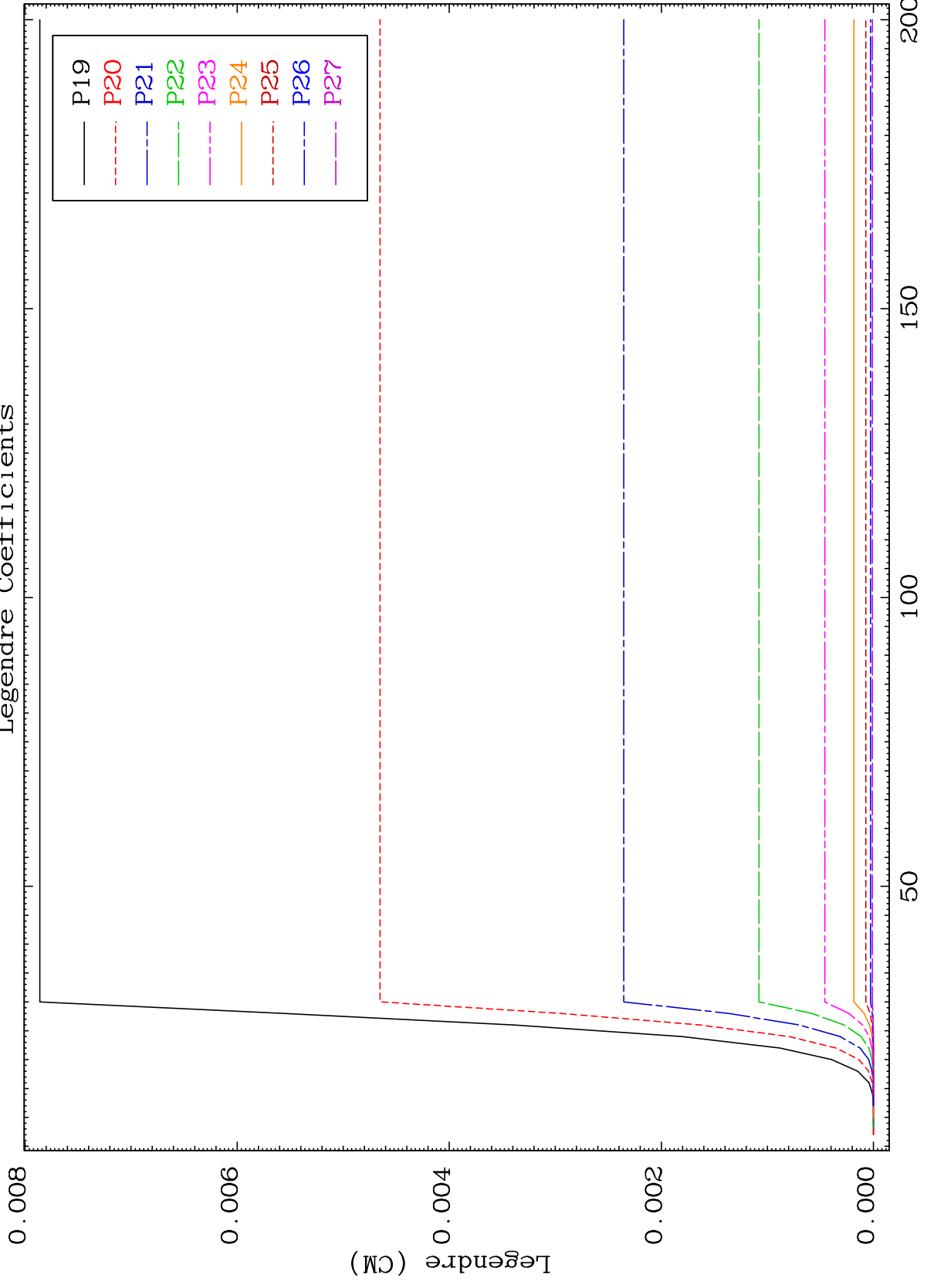


102

Incident Energy (MeV)

54-Xe-123

MAT 5422 MT= 77 (n,n') Level Legendre Coefficients 54-Xe-123

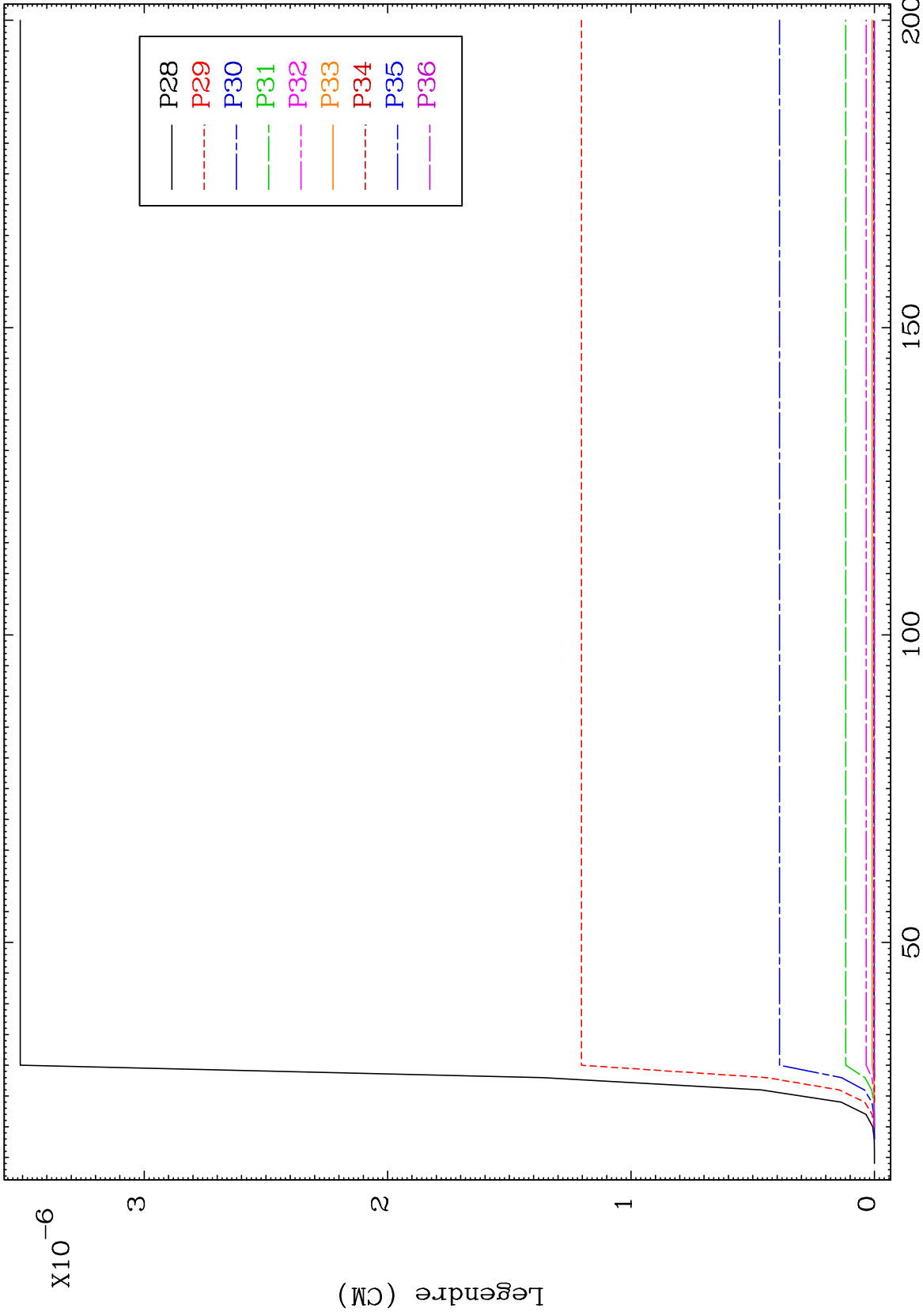


103 50 100 150 200 Incident Energy (MeV) 54-Xe-123

MAT 5422

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

54-Xe-123



104

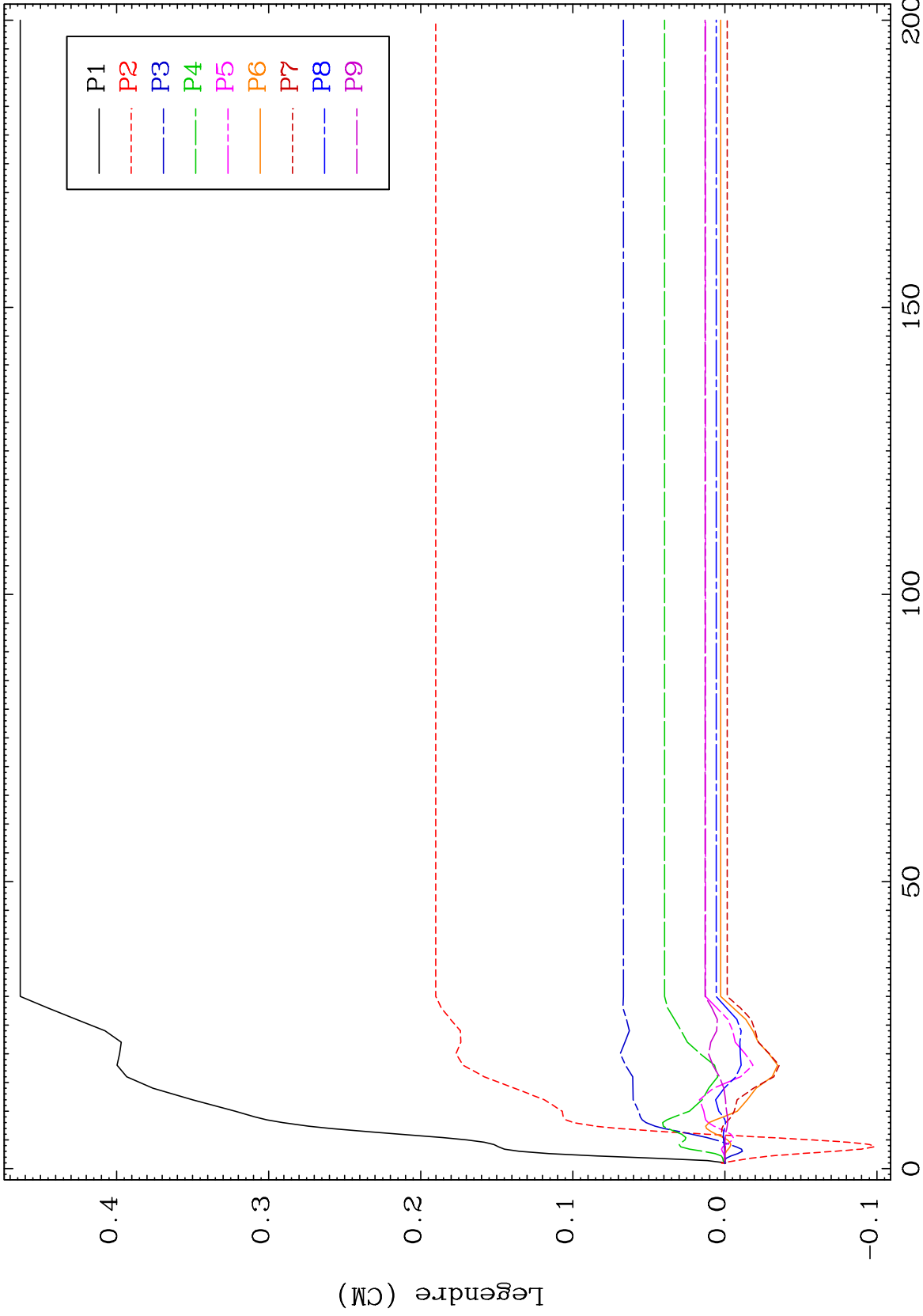
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



54-Xe-123

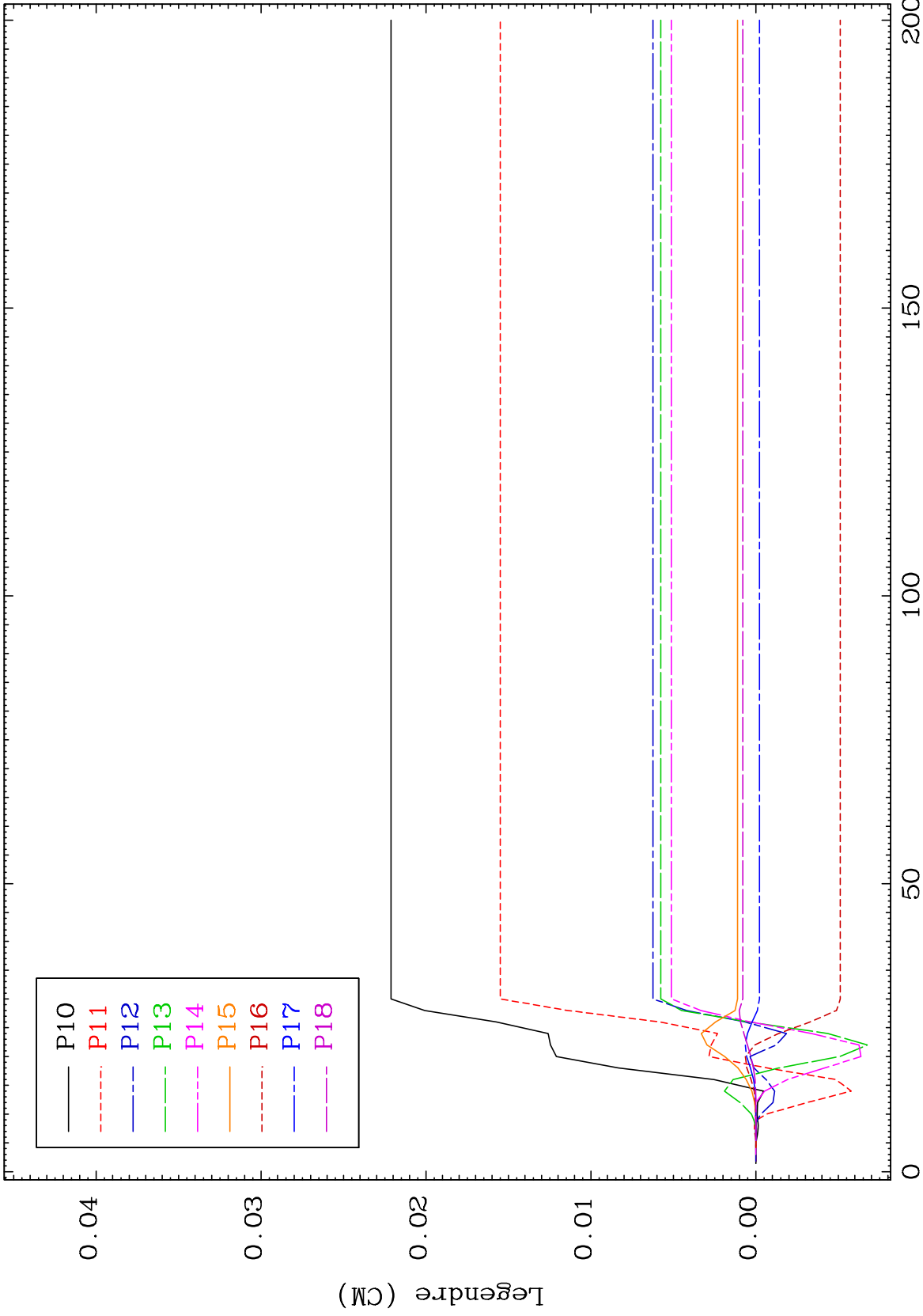
Incident Energy (MeV)

105

MAT 5422

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

54-Xe-123



106

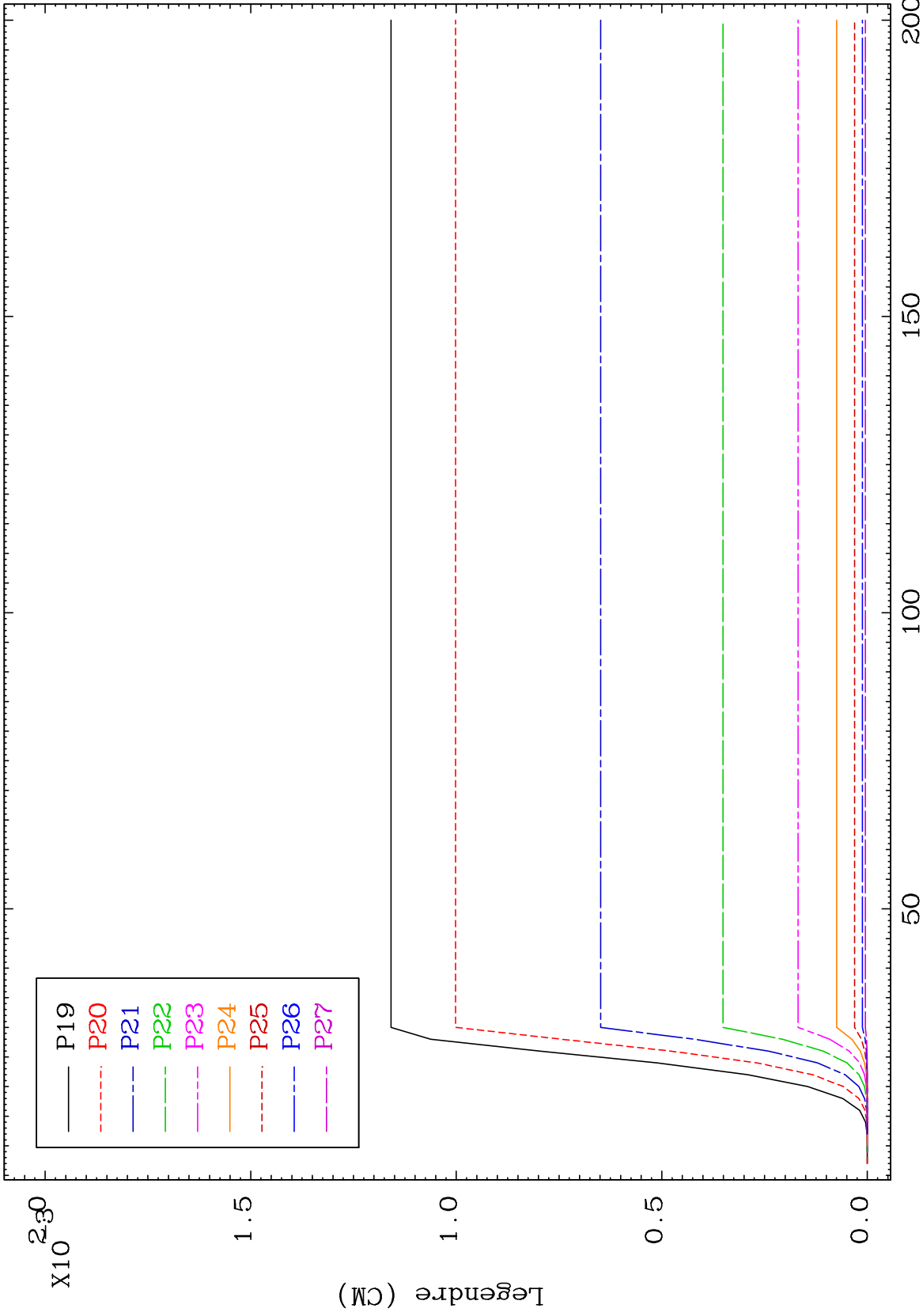
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123



107

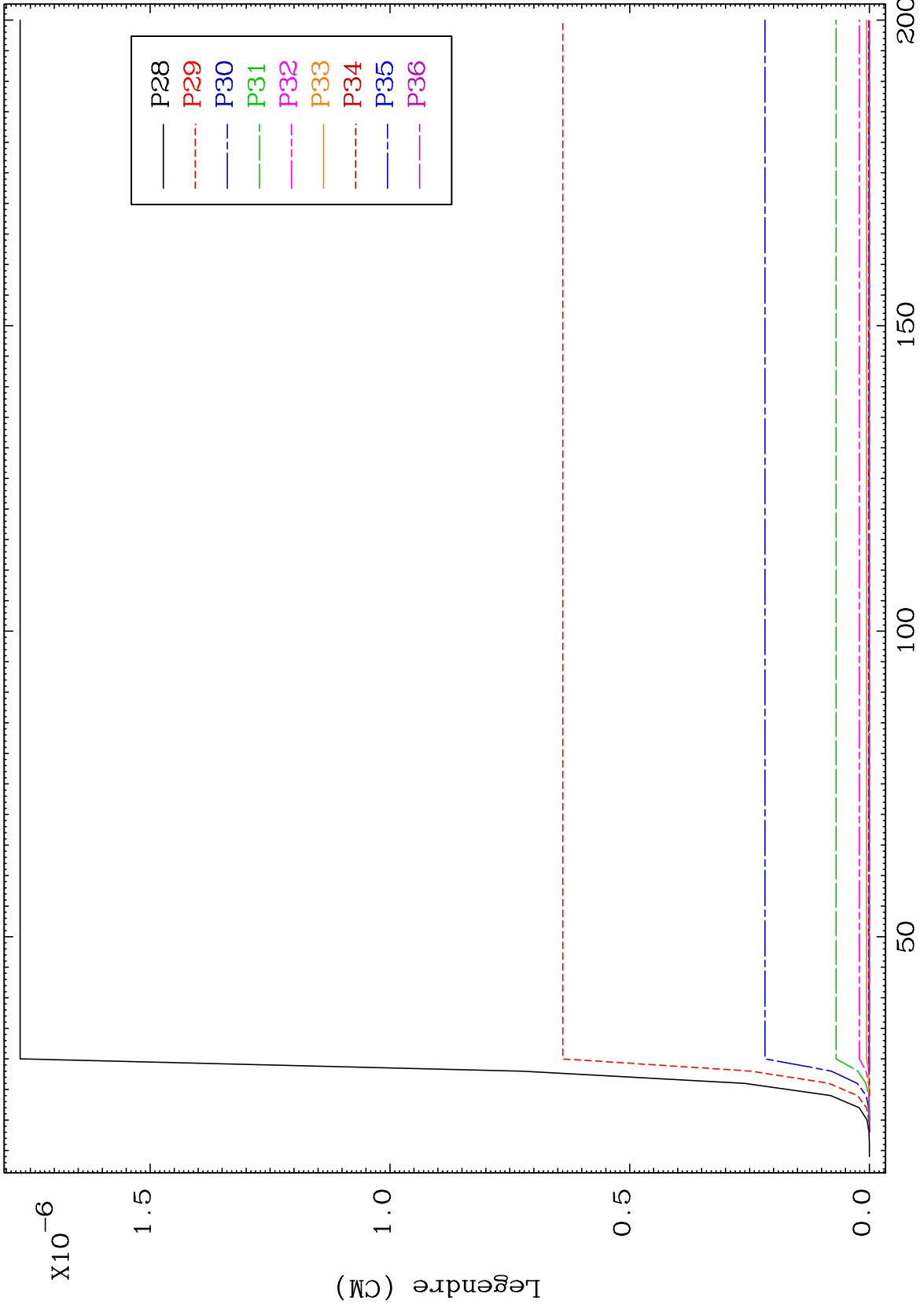
Incident Energy (MeV)

54-Xe-123

MAT 5422

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

54-Xe-123

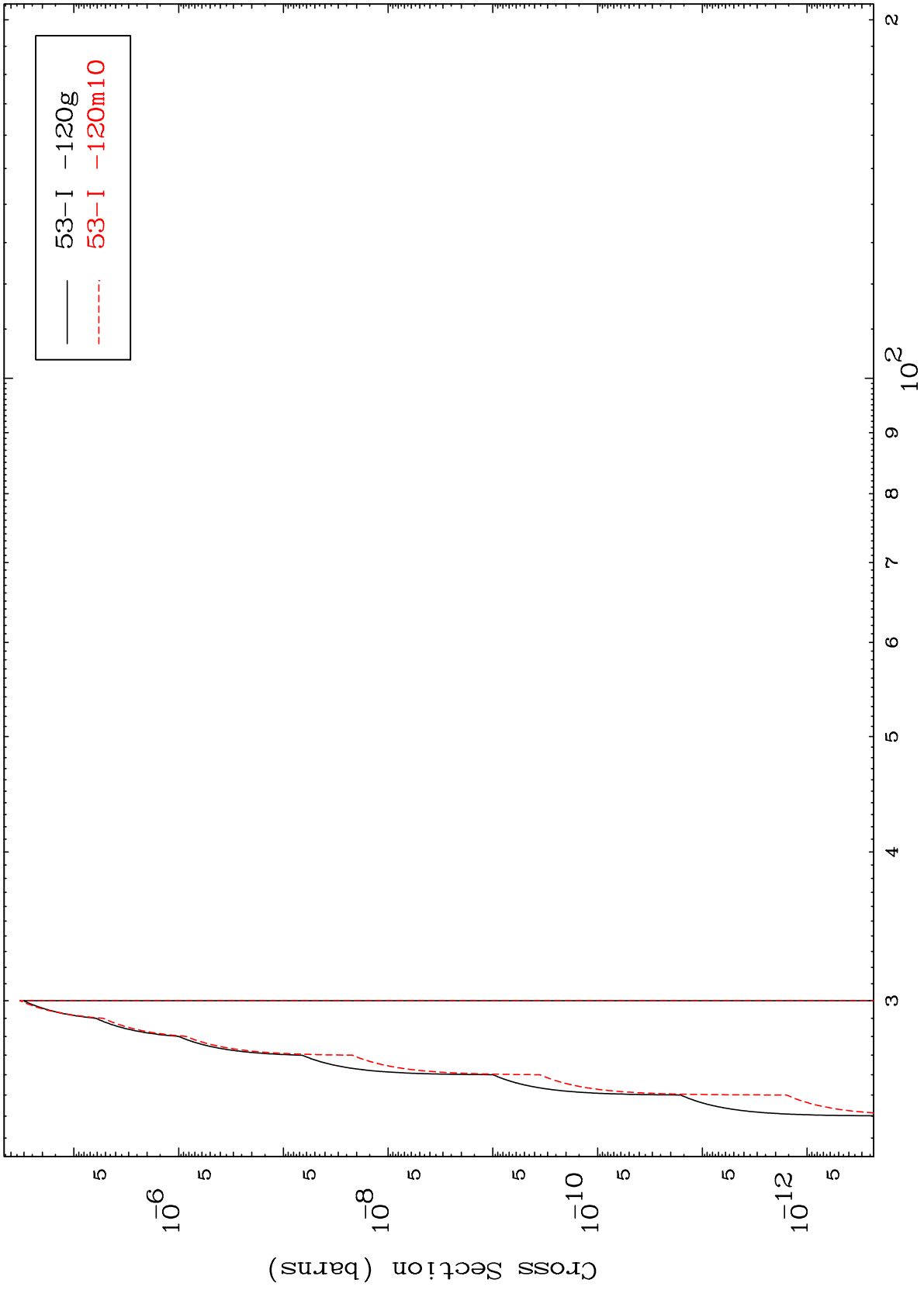


108

Incident Energy (MeV)

54-Xe-123

Radionuclide Production Cross Section

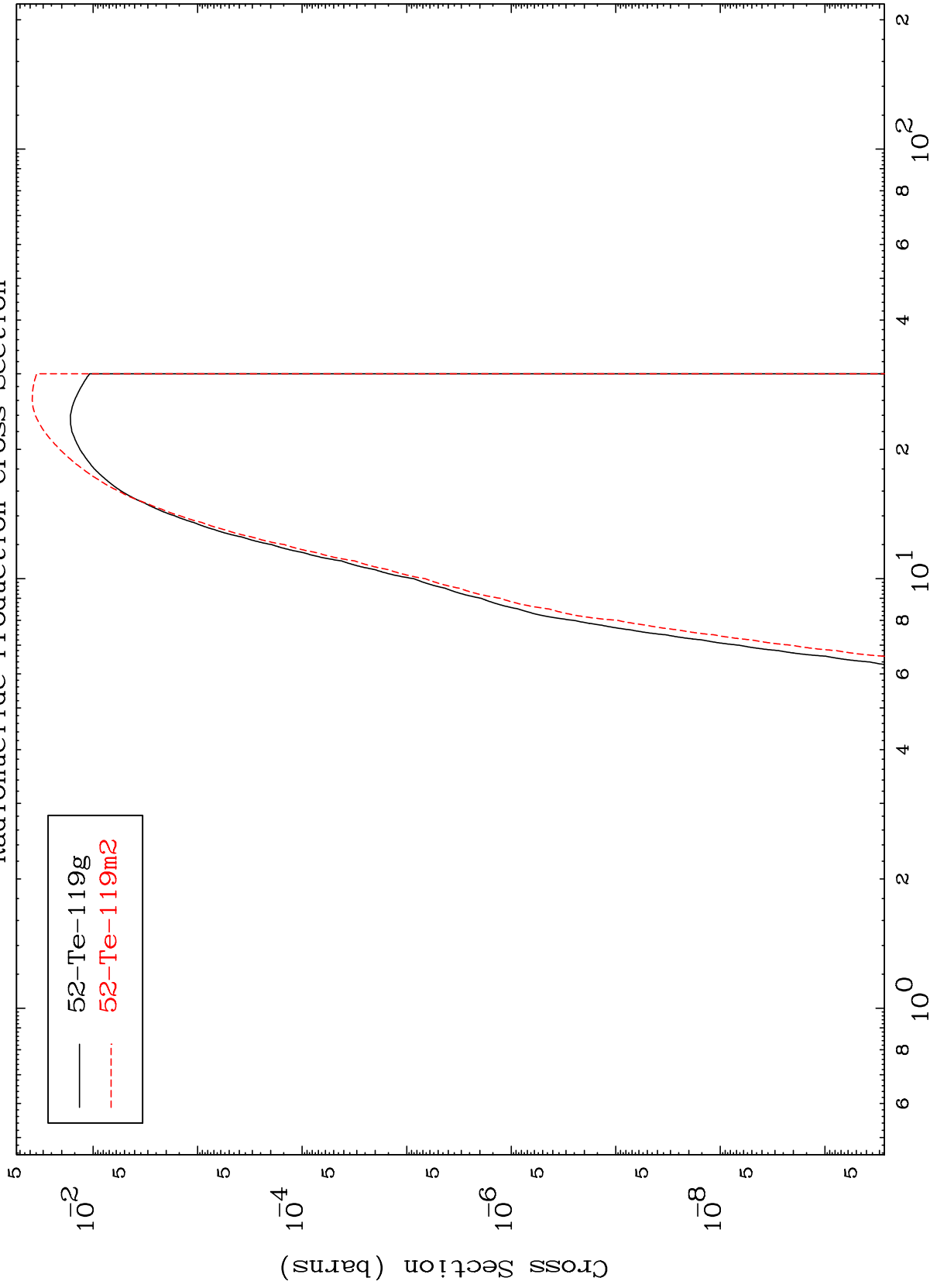


MAT 5422

(n,n') α

54-Xe-123

Radionuclide Production Cross Section



110

Incident Energy (MeV)

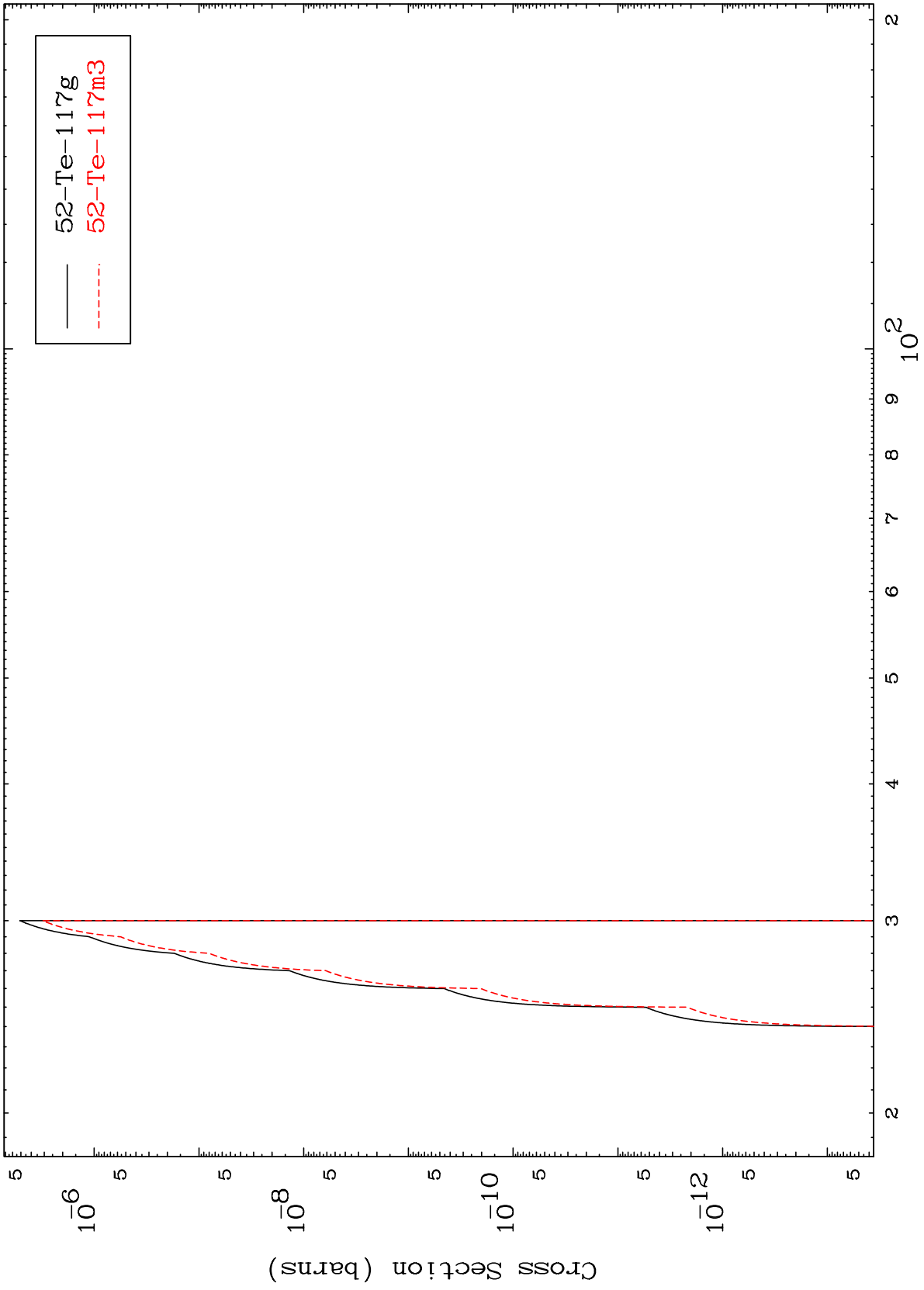
54-Xe-123

MAT 5422

(n,3n) α

54-Xe-123

Radionuclide Production Cross Section

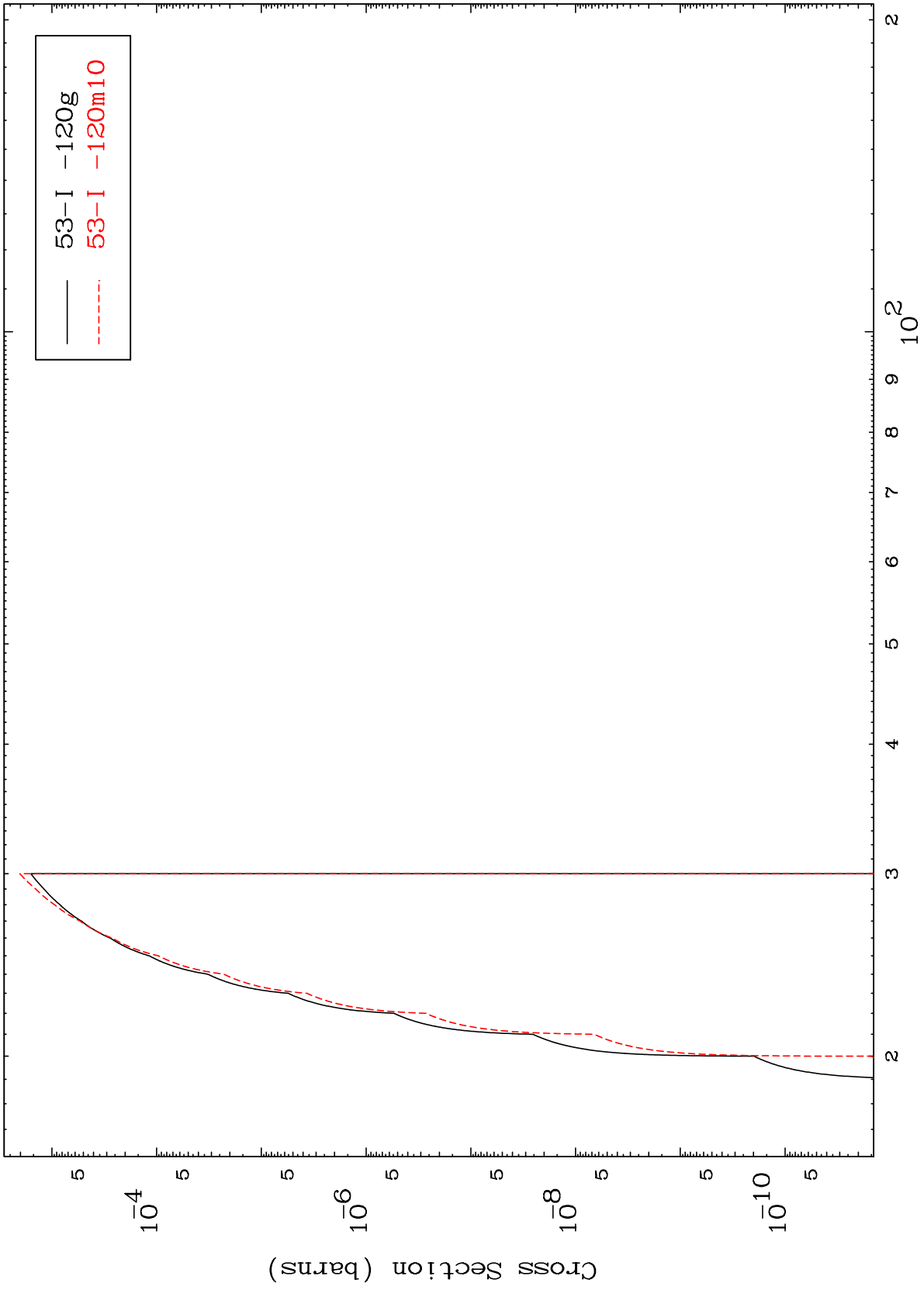


111

Incident Energy (MeV)

54-Xe-123

Radionuclide Production Cross Section

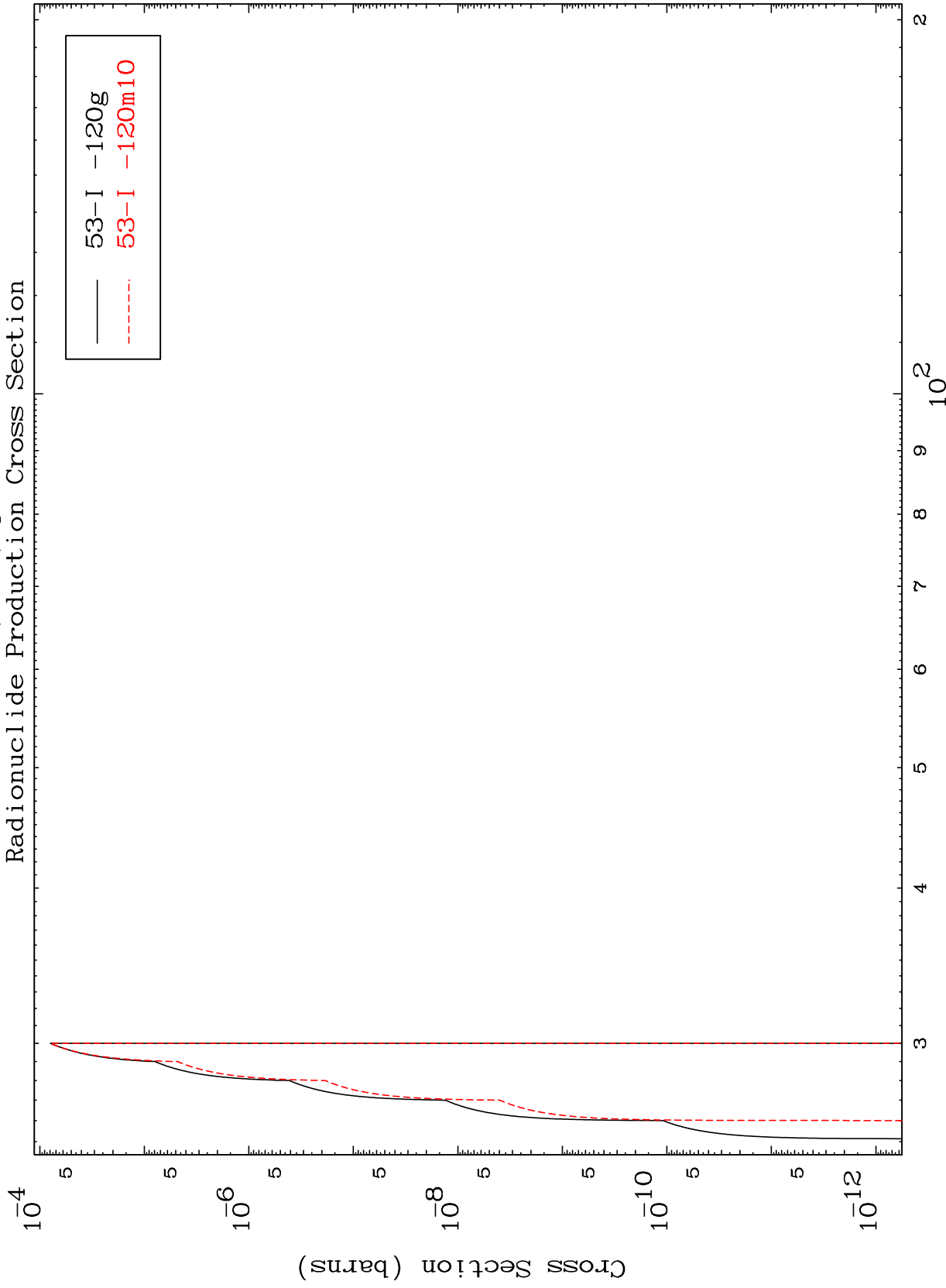


MAT 5422

(n,3n) p

54-Xe-123

Radionuclide Production Cross Section



53-I -120g
53-I -120m10

113

Incident Energy (MeV)

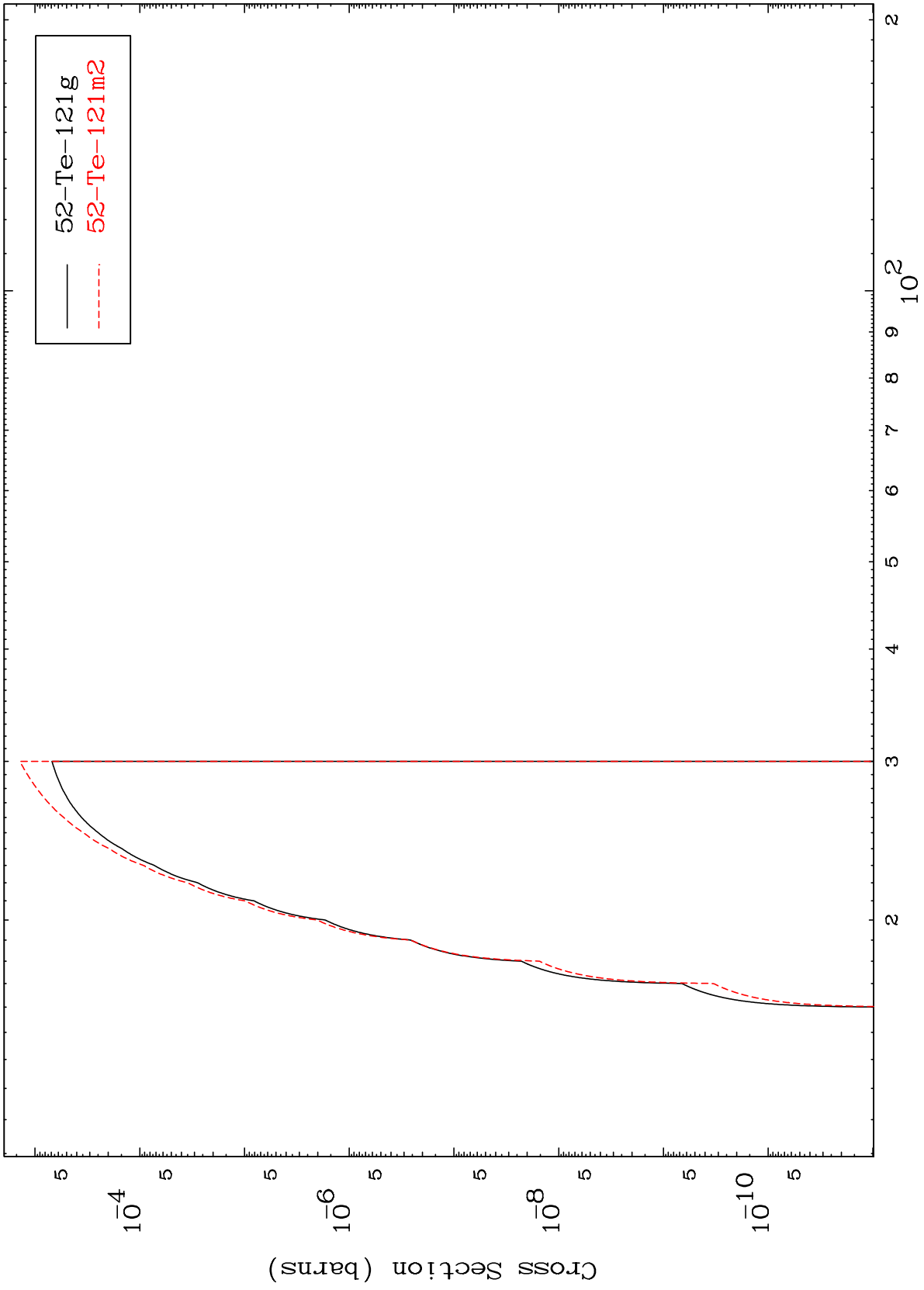
54-Xe-123

MAT 5422

(n,2n) p

54-Xe-123

Radionuclide Production Cross Section



114

Incident Energy (MeV)

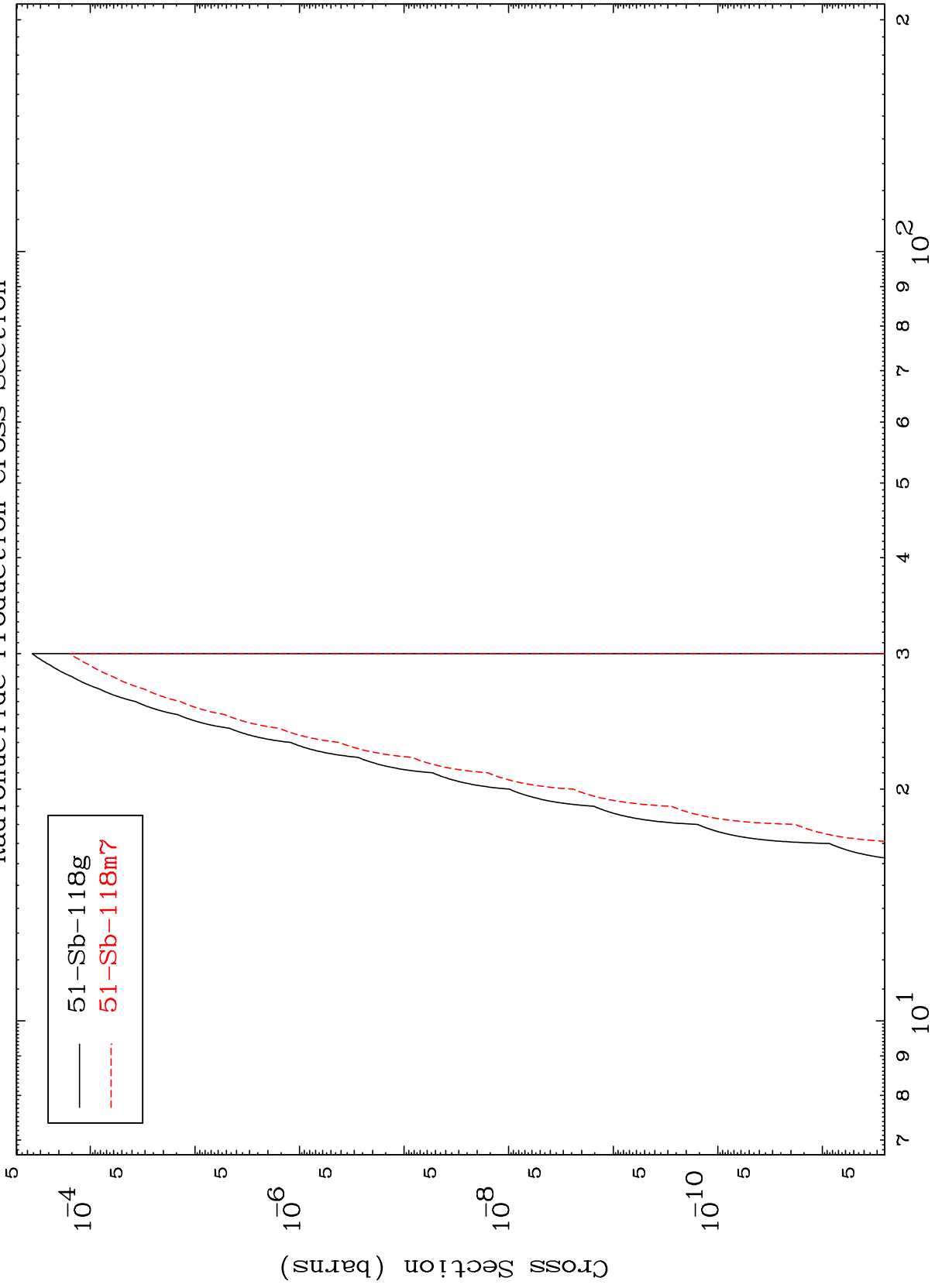
54-Xe-123

MAT 5422

(n,n') p α

54-Xe-123

Radionuclide Production Cross Section



115

Incident Energy (MeV)

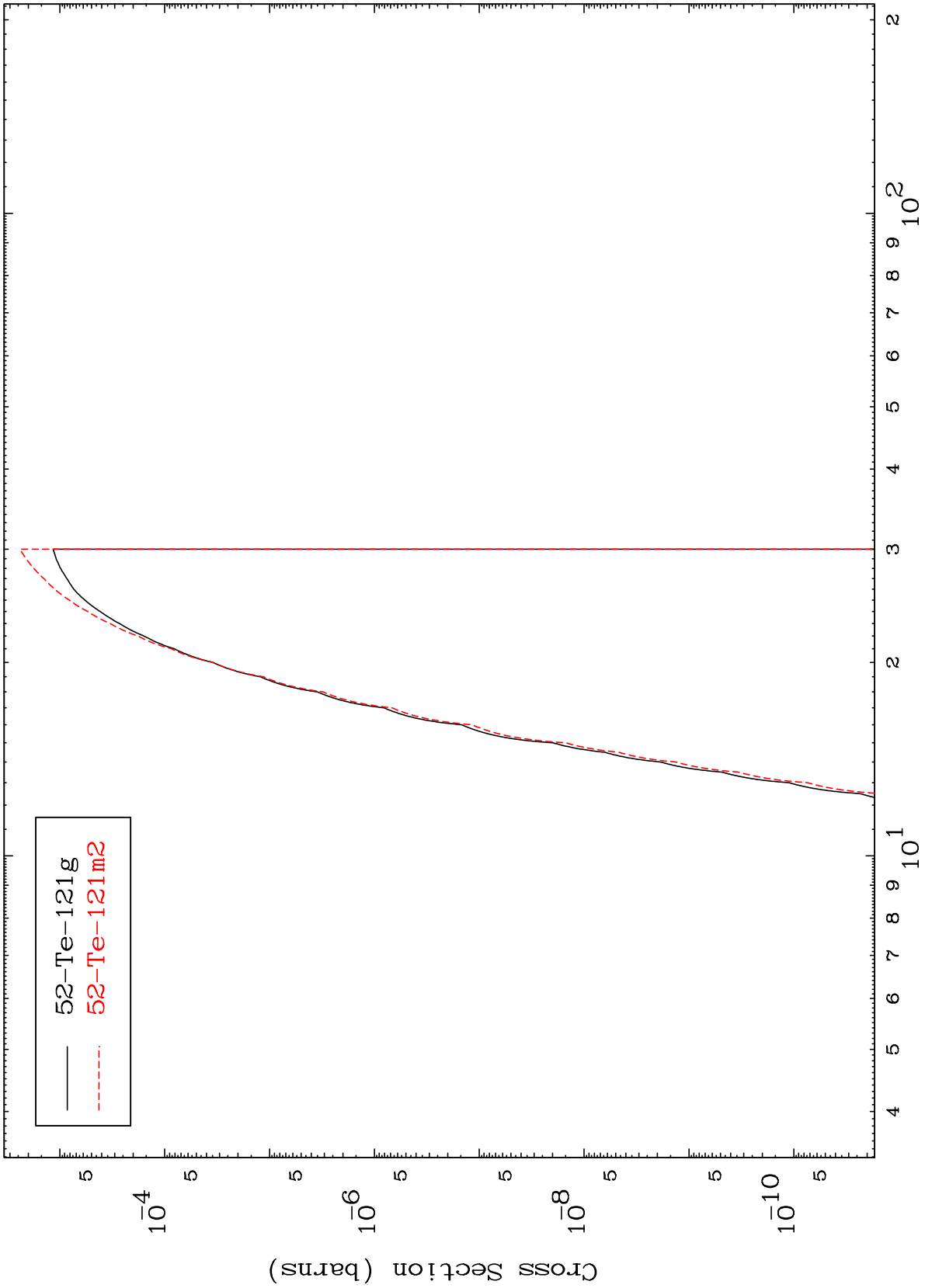
54-Xe-123

MAT 5422

(n, He-3)

54-Xe-123

Radionuclide Production Cross Section



52-Te-121 g
52-Te-121 m2

116

Incident Energy (MeV)

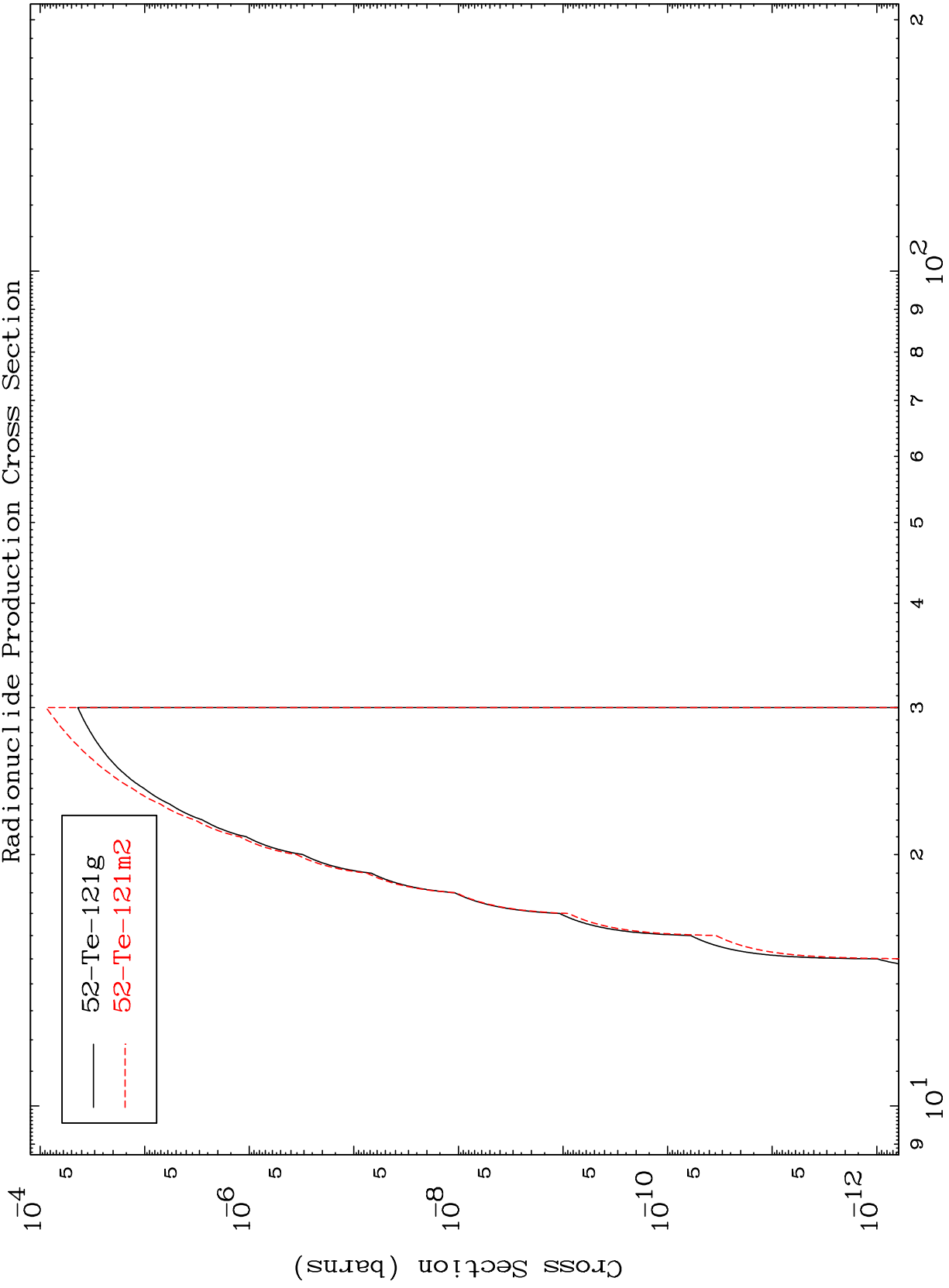
54-Xe-123

MAT 5422

(n,p) d

54-Xe-123

Radionuclide Production Cross Section



117

Incident Energy (MeV)

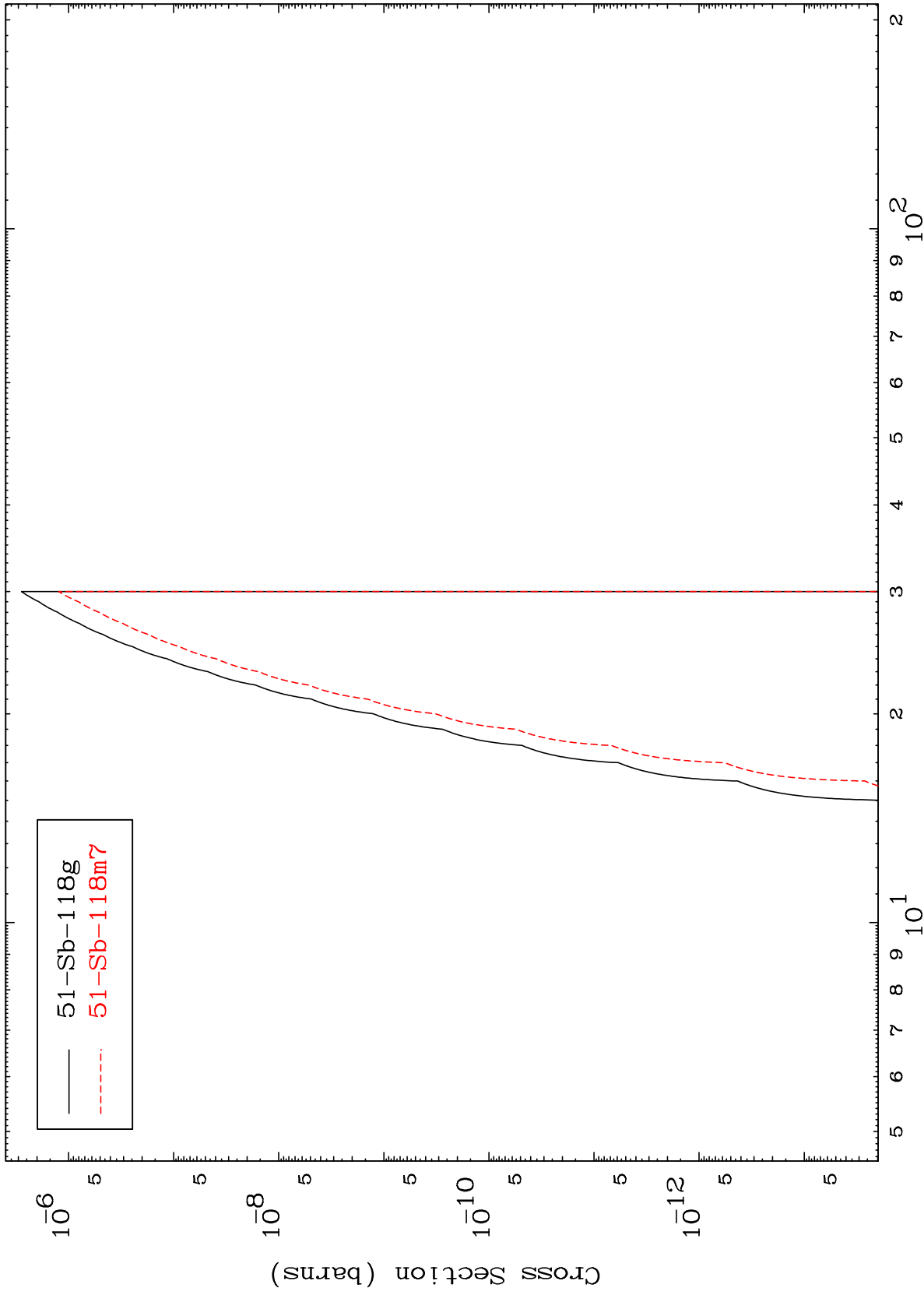
54-Xe-123

MAT 5422

(n,d) α

54-Xe-123

Radionuclide Production Cross Section



118

Incident Energy (MeV)

54-Xe-123