

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

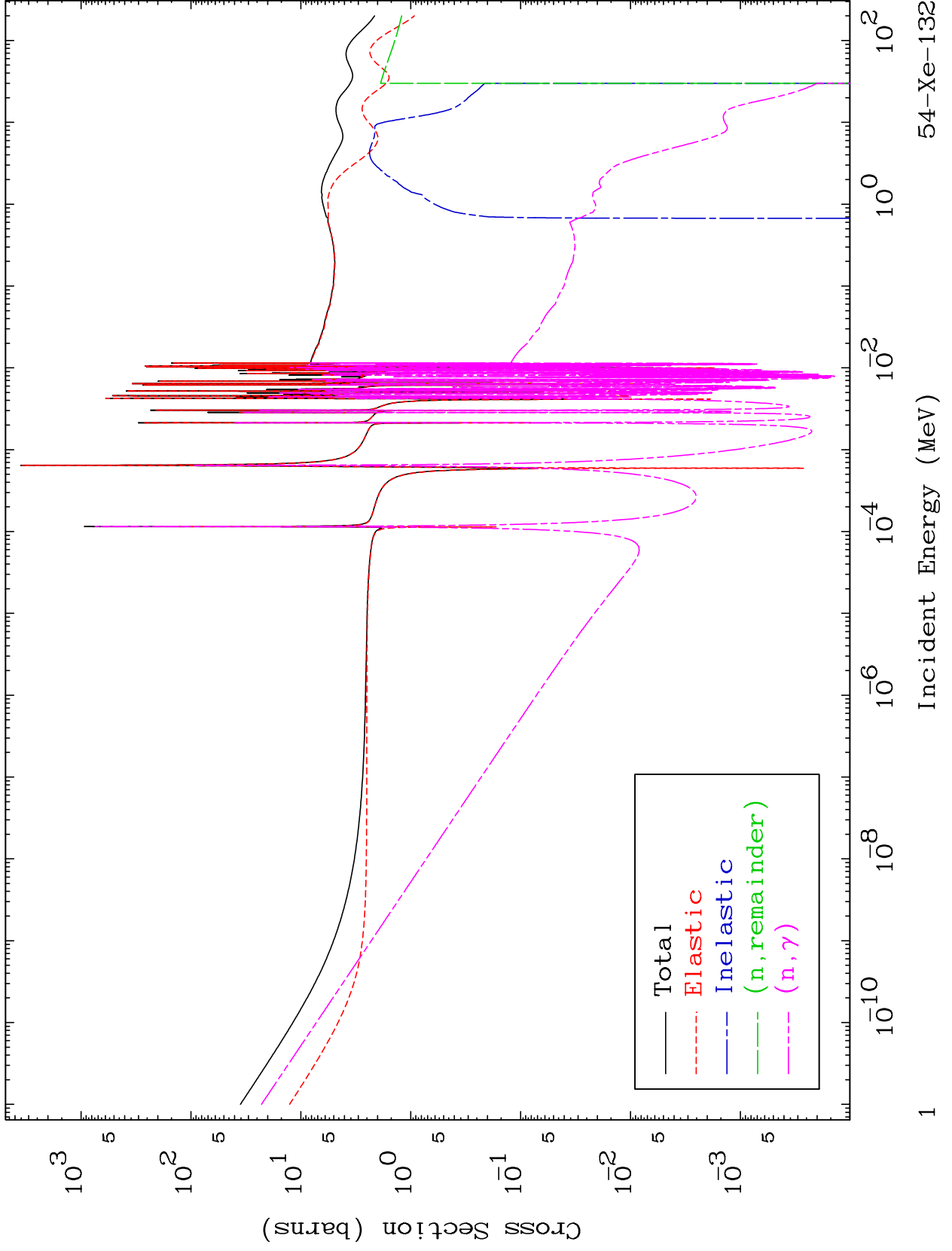
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

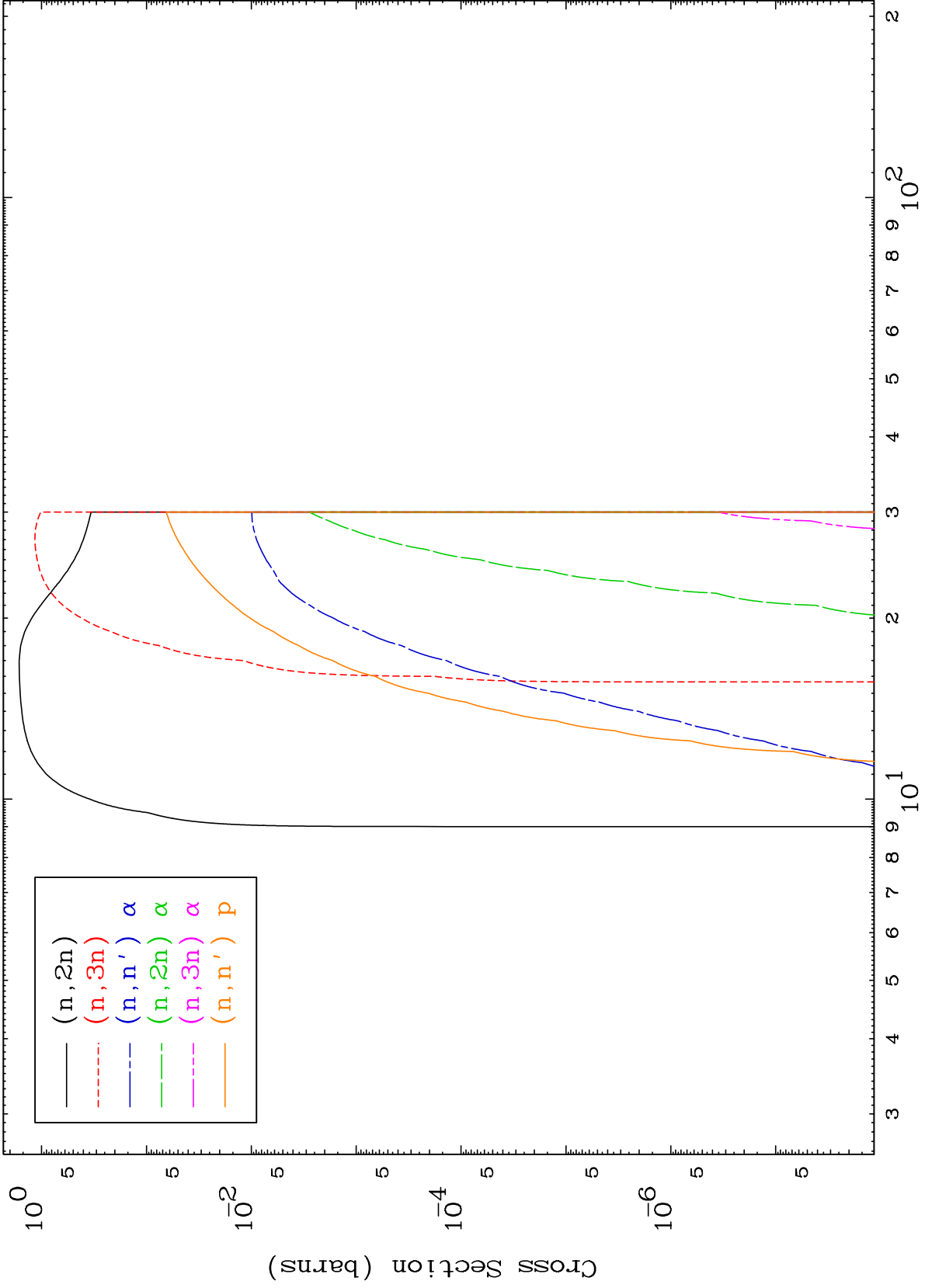
MAT 5449

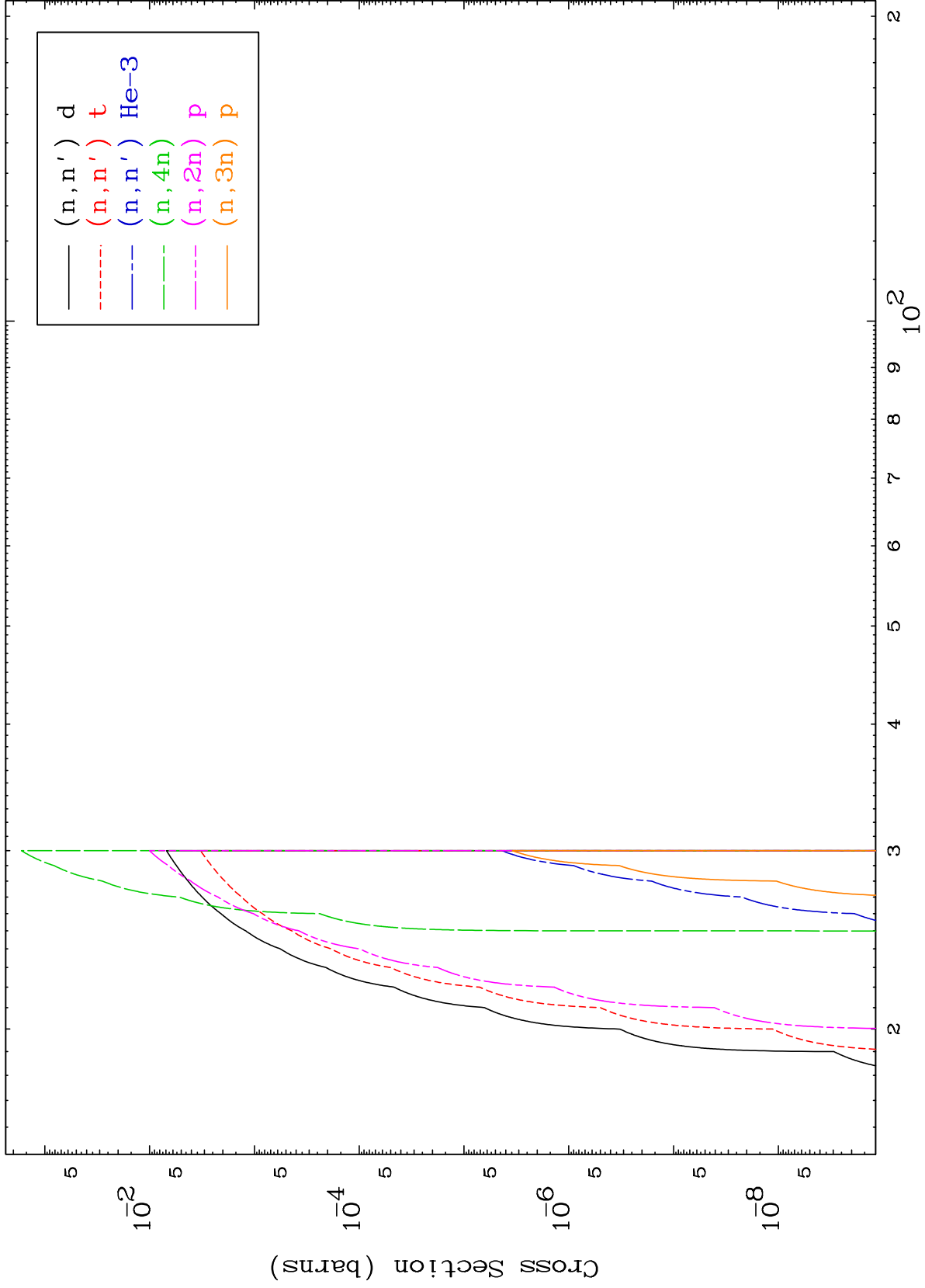
Major  
293 Kelvin Cross Sections

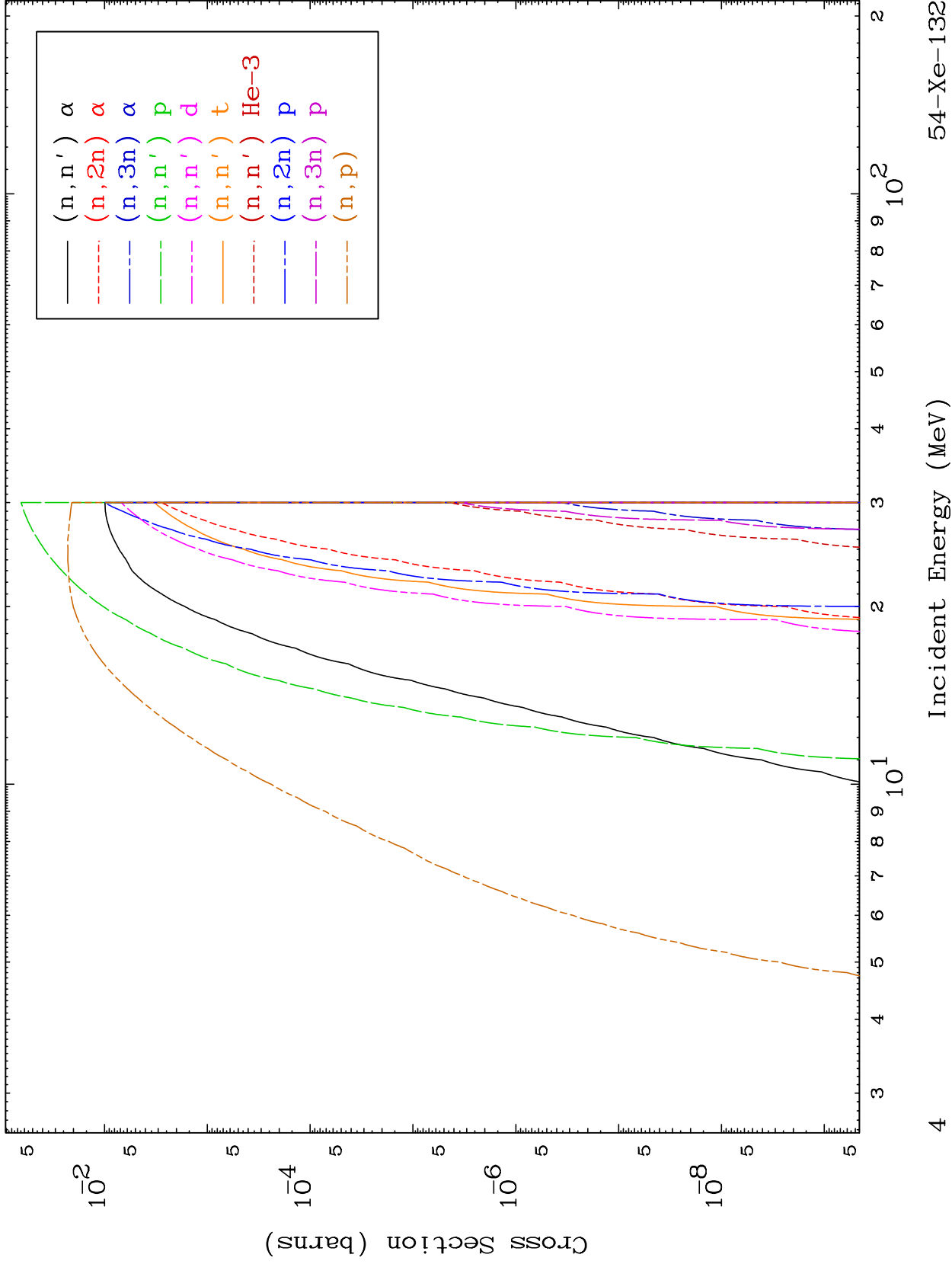
54-Xe-132

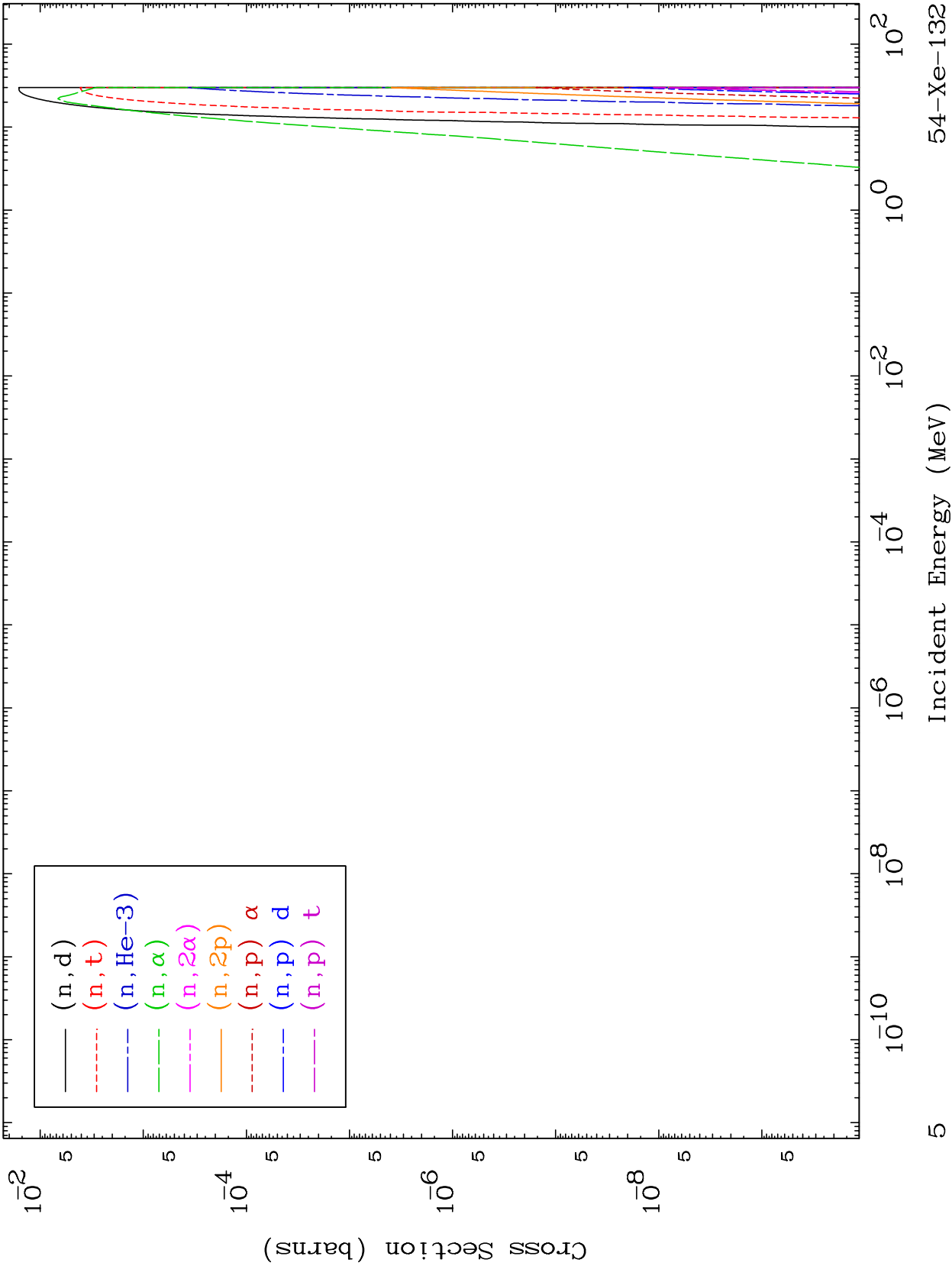


Neutron Production  
293 Kelvin Cross Sections





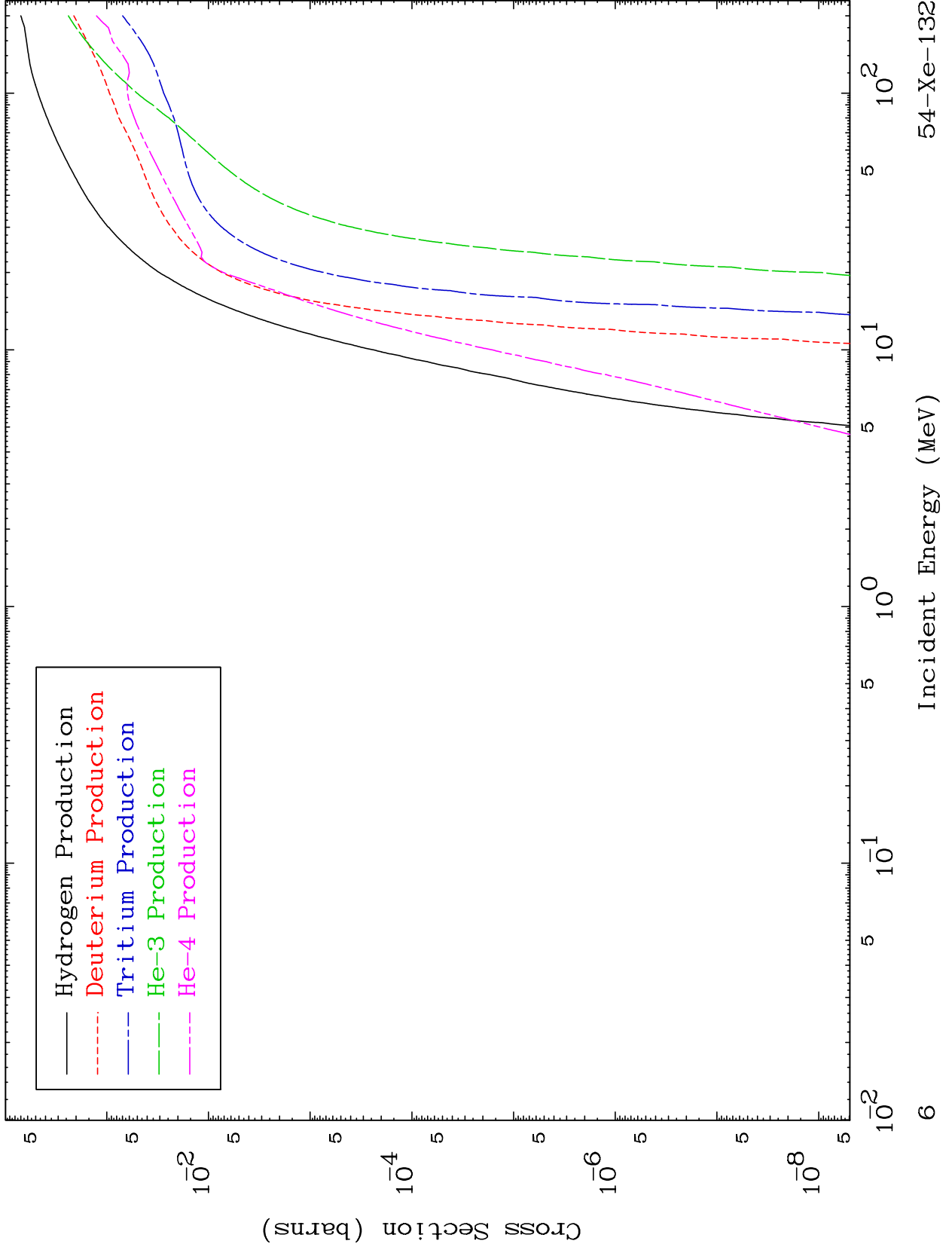




MAT 5449

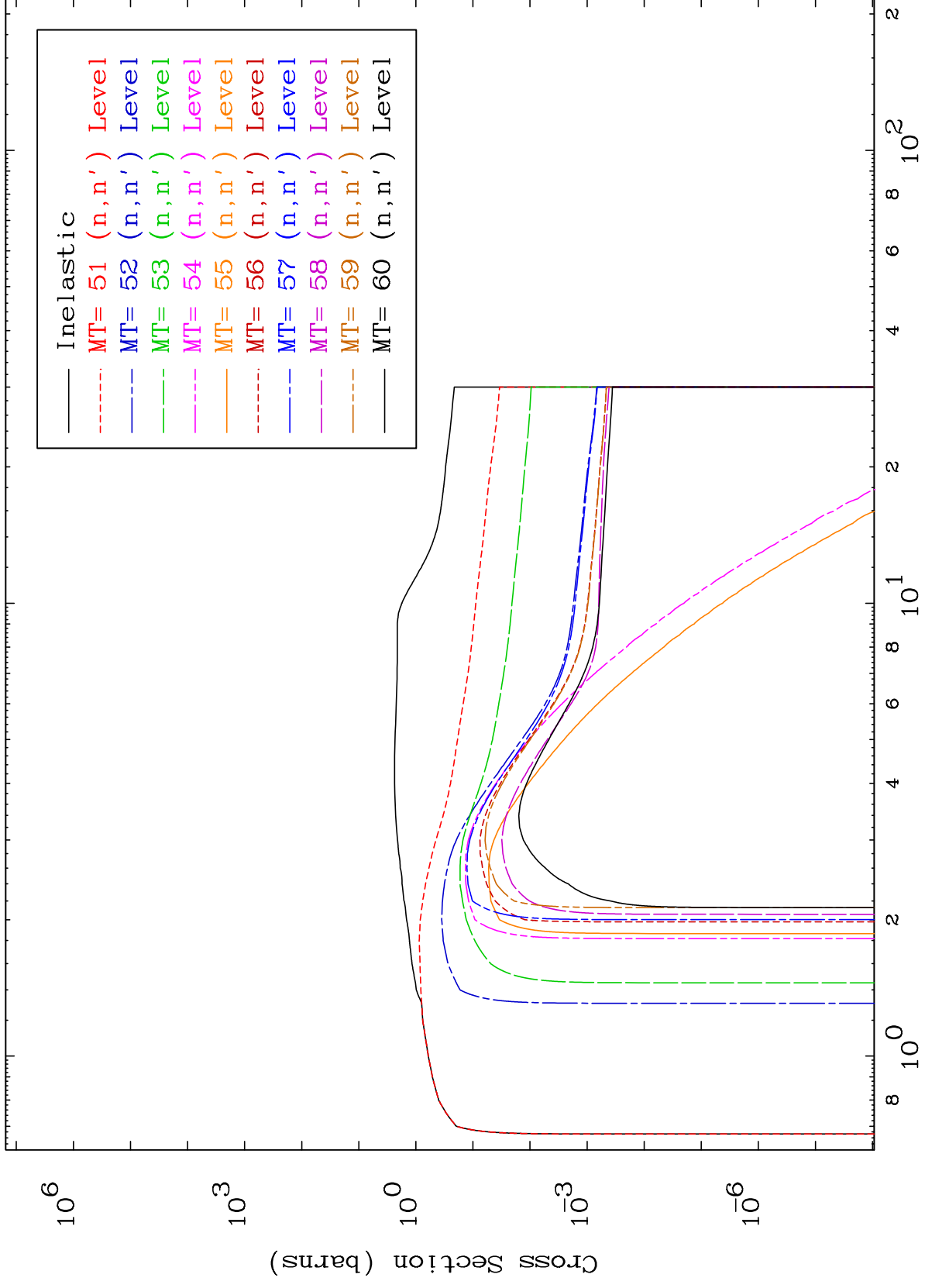
Particle Production  
293 Kelvin Cross Sections

54-Xe-132



54-Xe-132

293 Kelvin Cross Sections



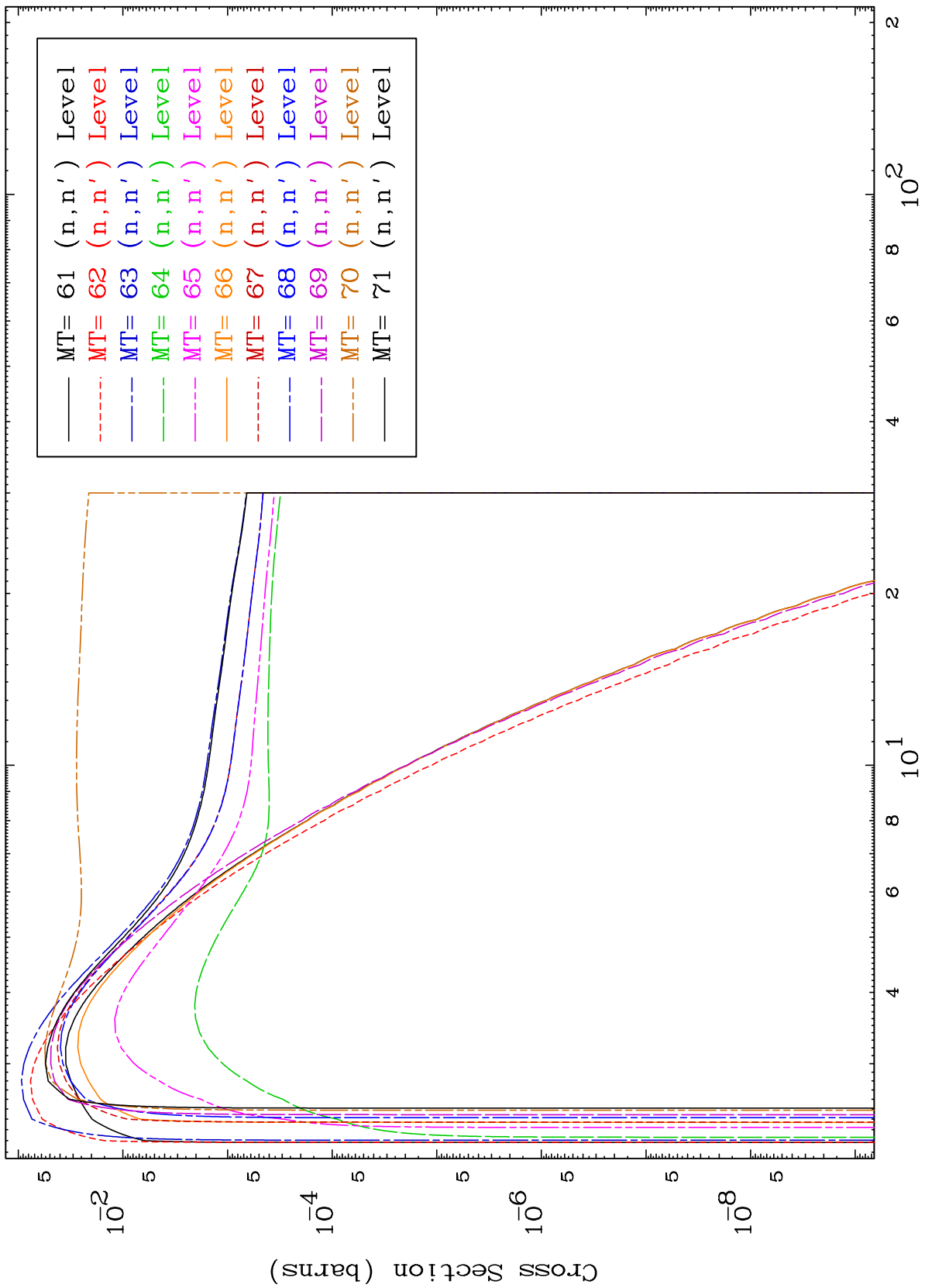


MAT 5449

(n,n') Level

54-Xe-132

293 Kelvin Cross Sections



8

Incident Energy (MeV)

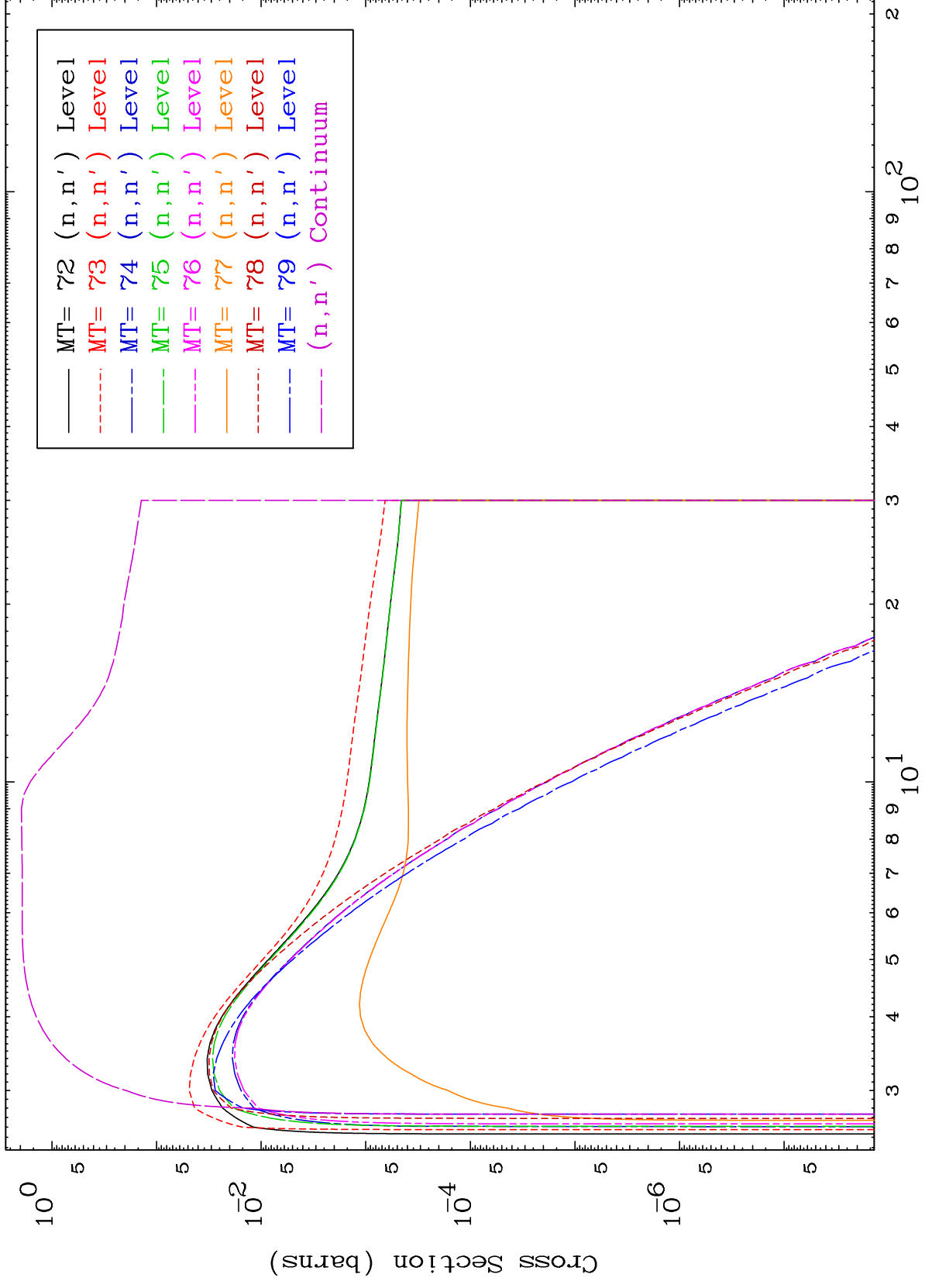
54-Xe-132

MAT 5449

(n,n') Level

54-Xe-132

293 Kelvin Cross Sections



9

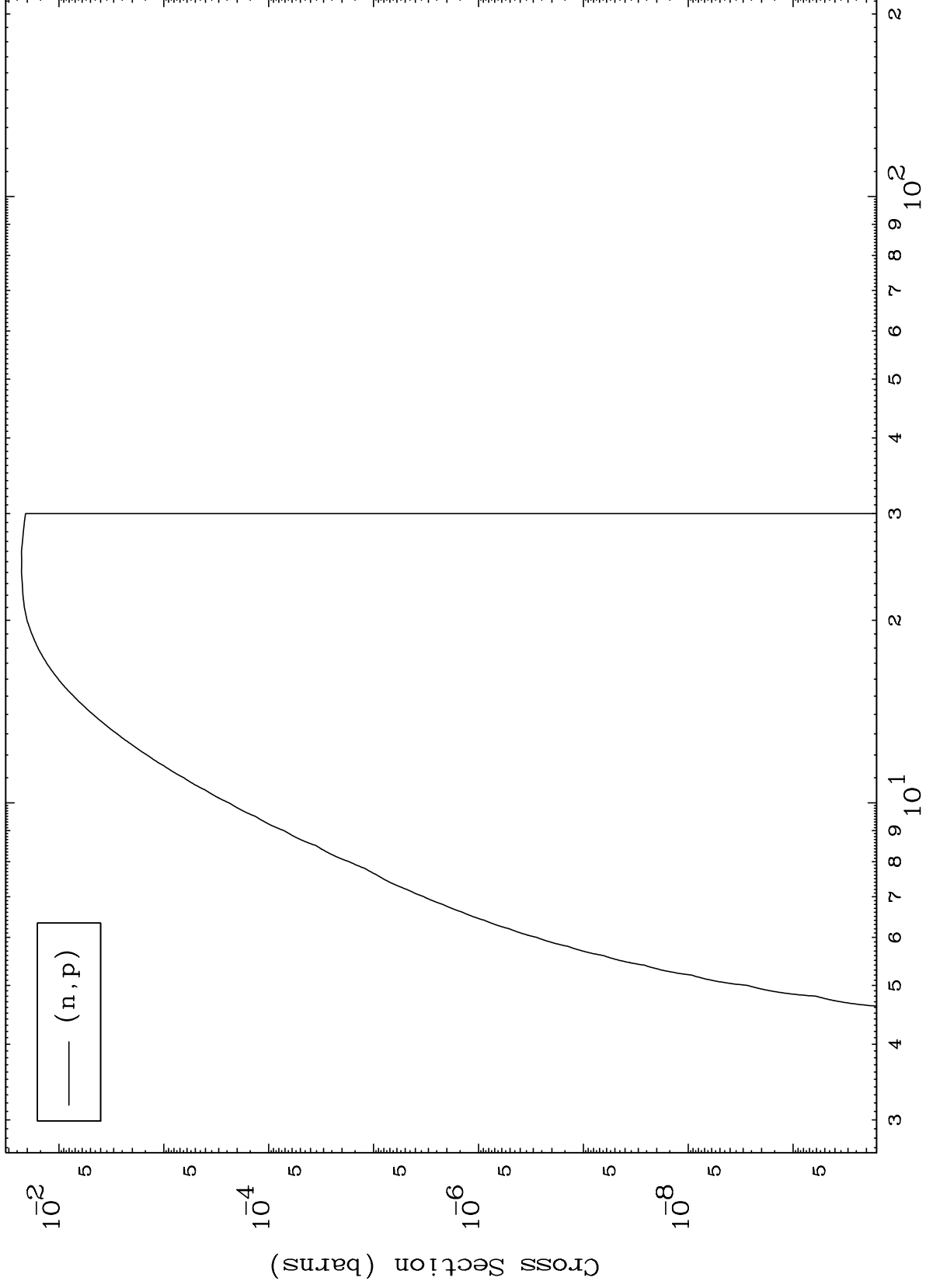
Incident Energy (MeV)

54-Xe-132

MAT 5449

(n,p) Levels  
293 Kelvin Cross Sections

54-Xe-132



10

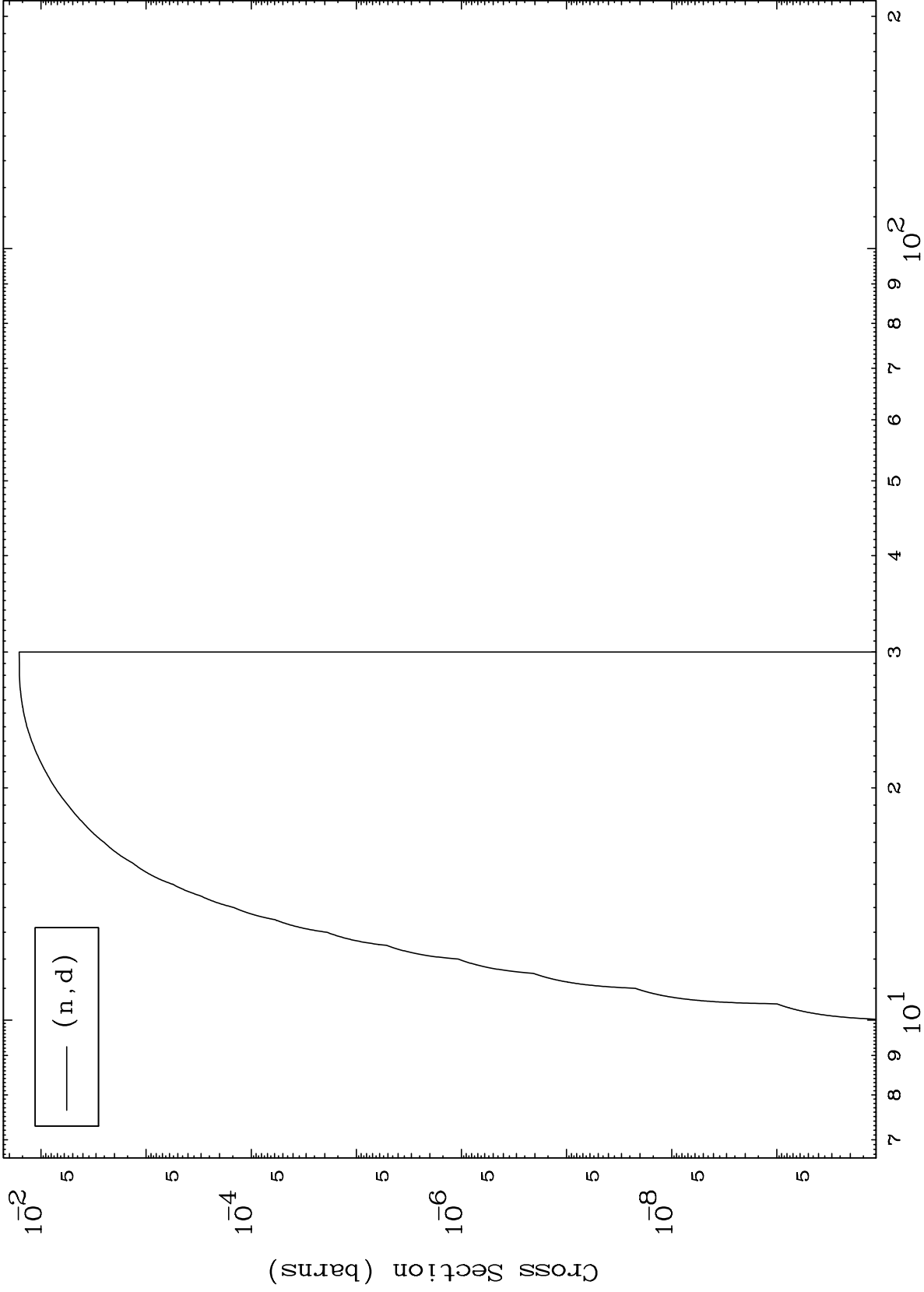
Incident Energy (MeV)

54-Xe-132

MAT 5449

(n,d) Levels  
293 Kelvin Cross Sections

54-Xe-132



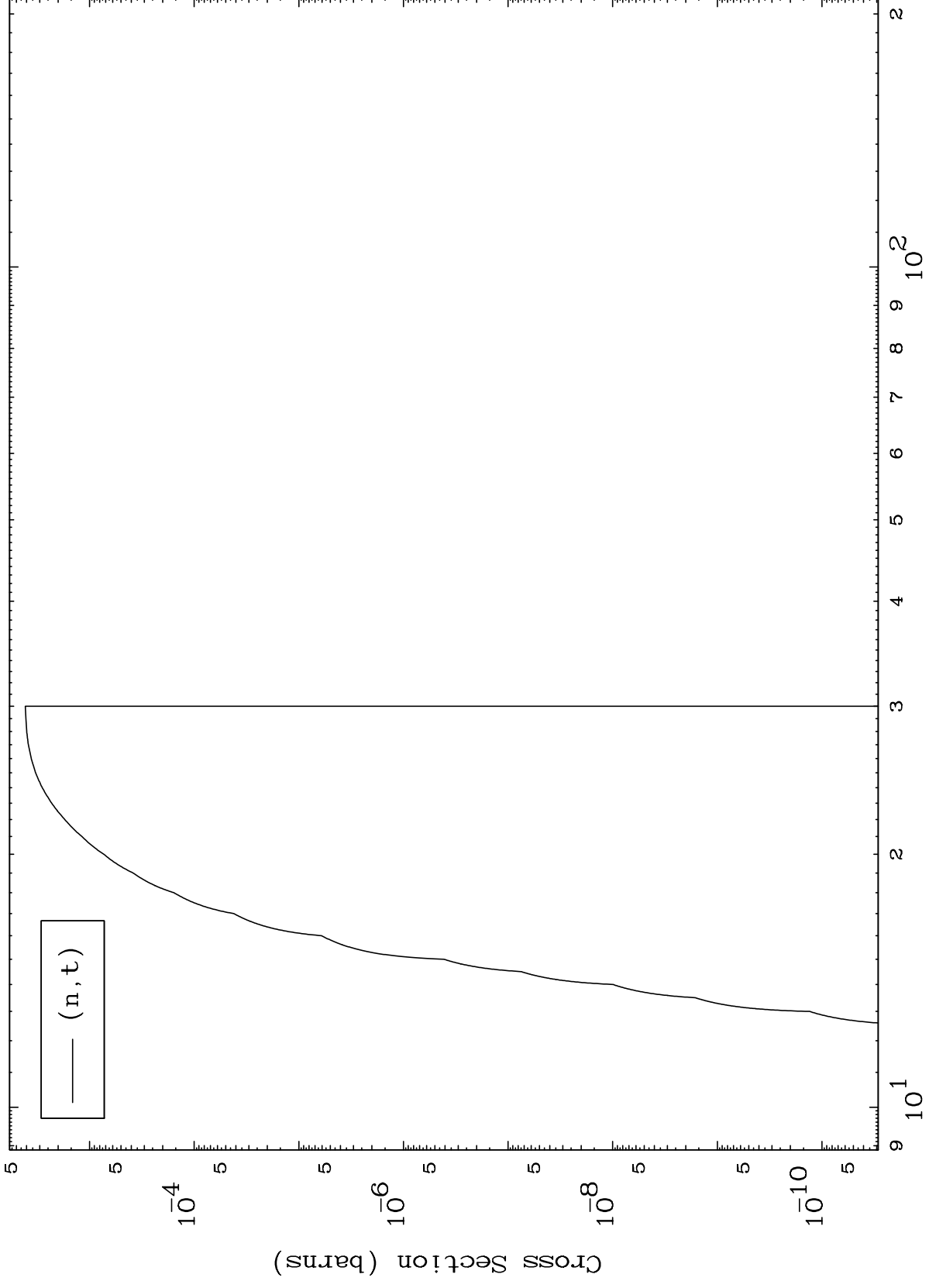
11

54-Xe-132

MAT 5449

(n,t) Levels  
293 Kelvin Cross Sections

54-Xe-132



12

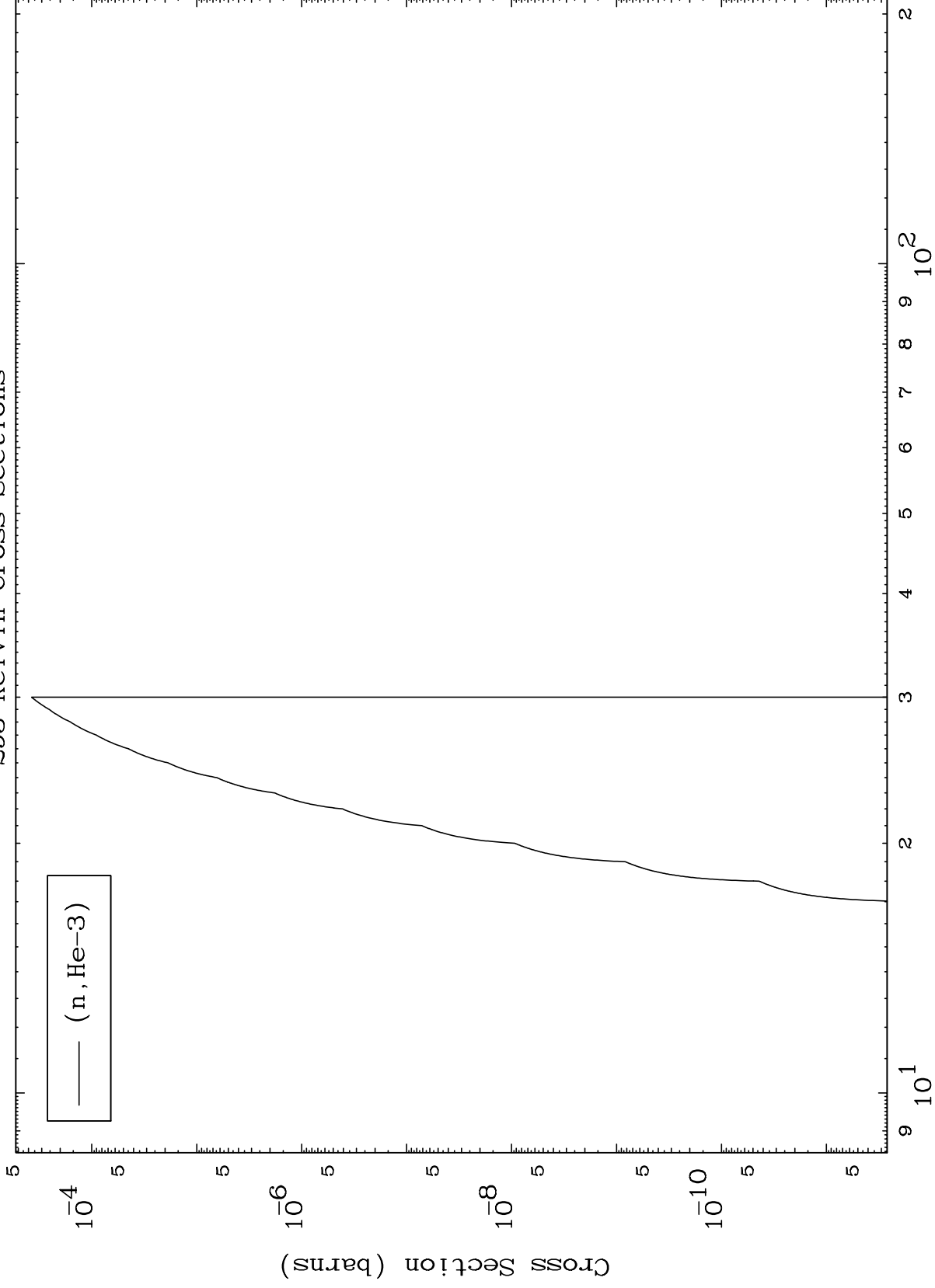
Incident Energy (MeV)

54-Xe-132

MAT 5449

(n,He3) Levels  
293 Kelvin Cross Sections

54-Xe-132



13

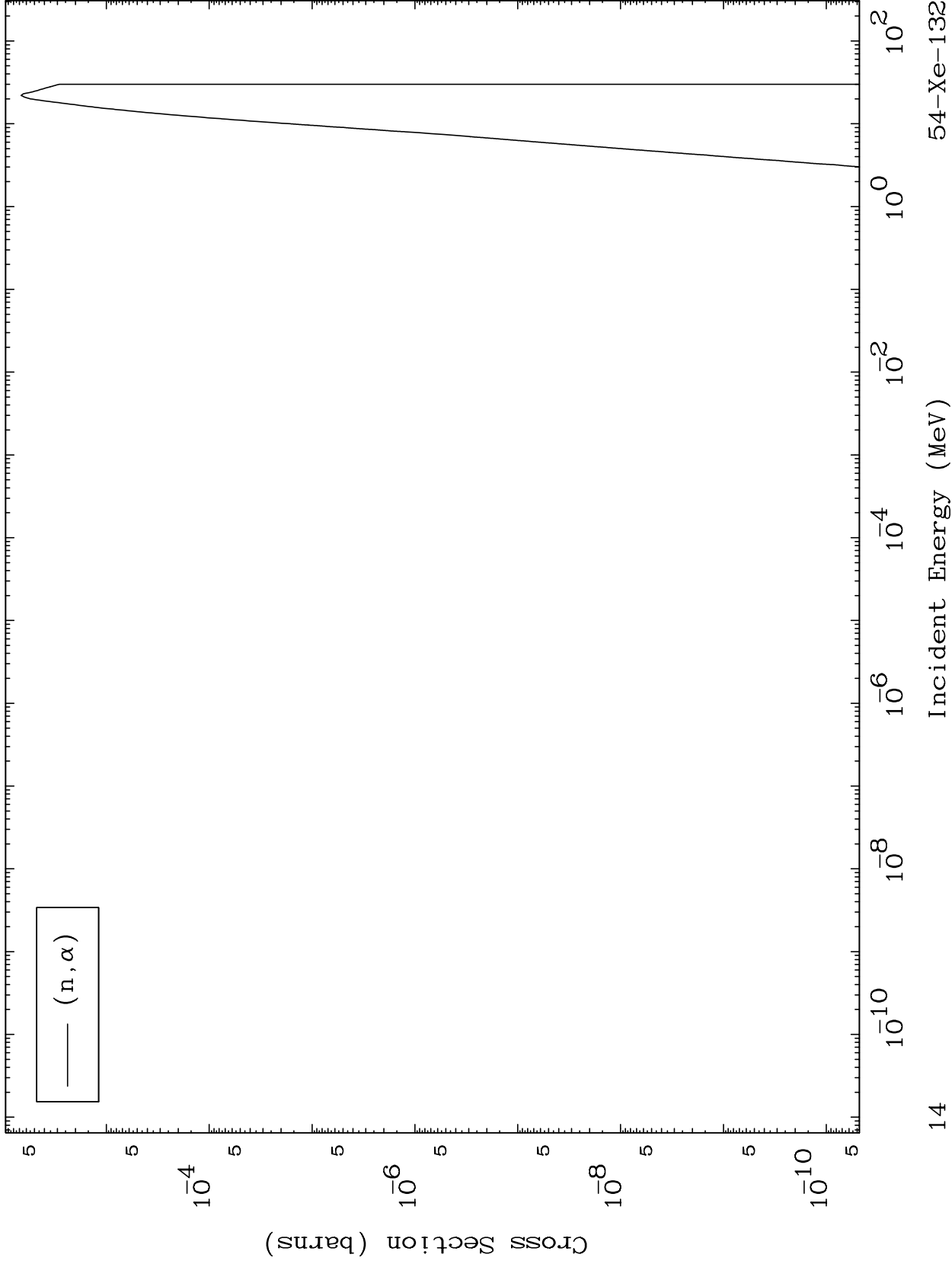
Incident Energy (MeV)

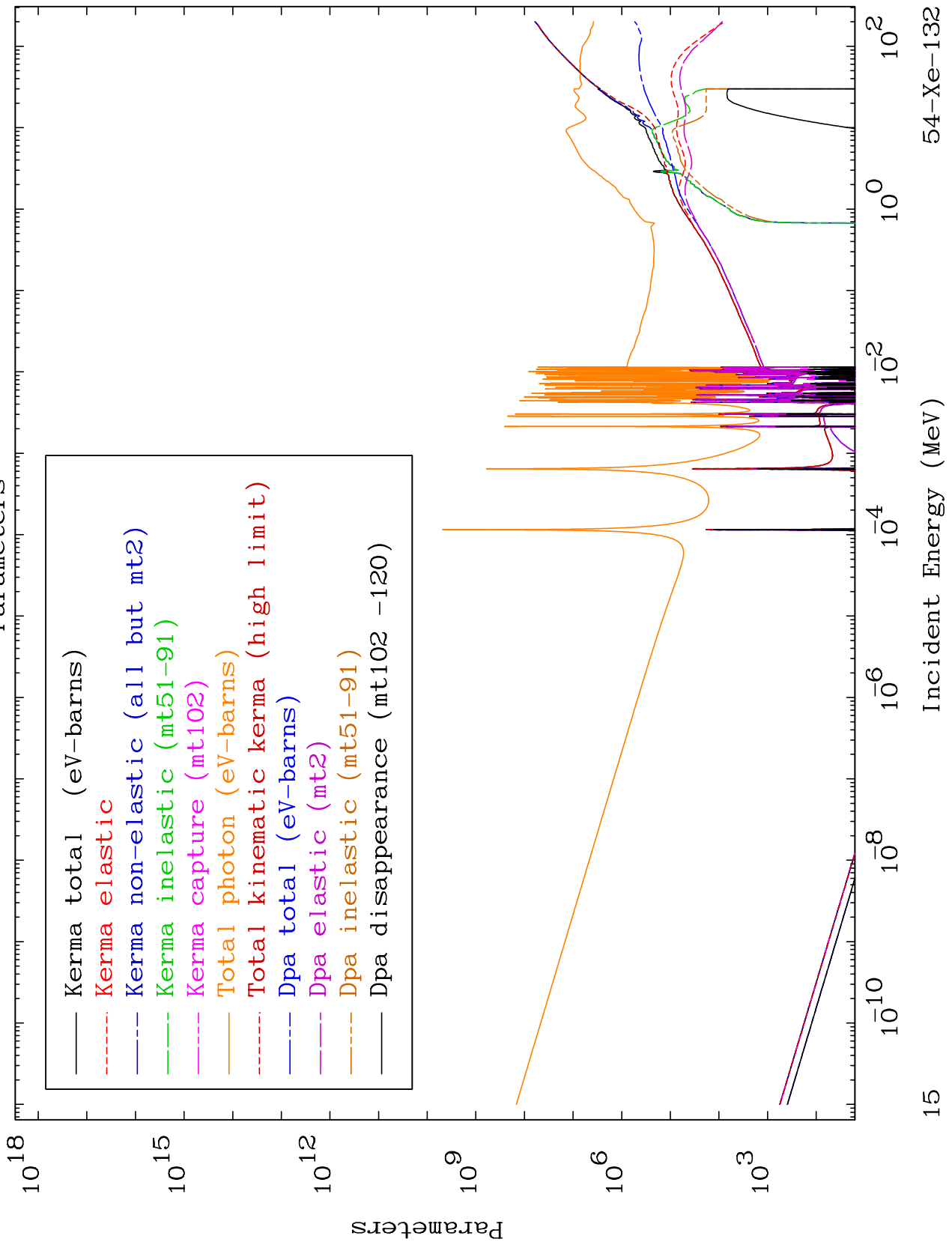
54-Xe-132

MAT 5449

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

54-Xe-132



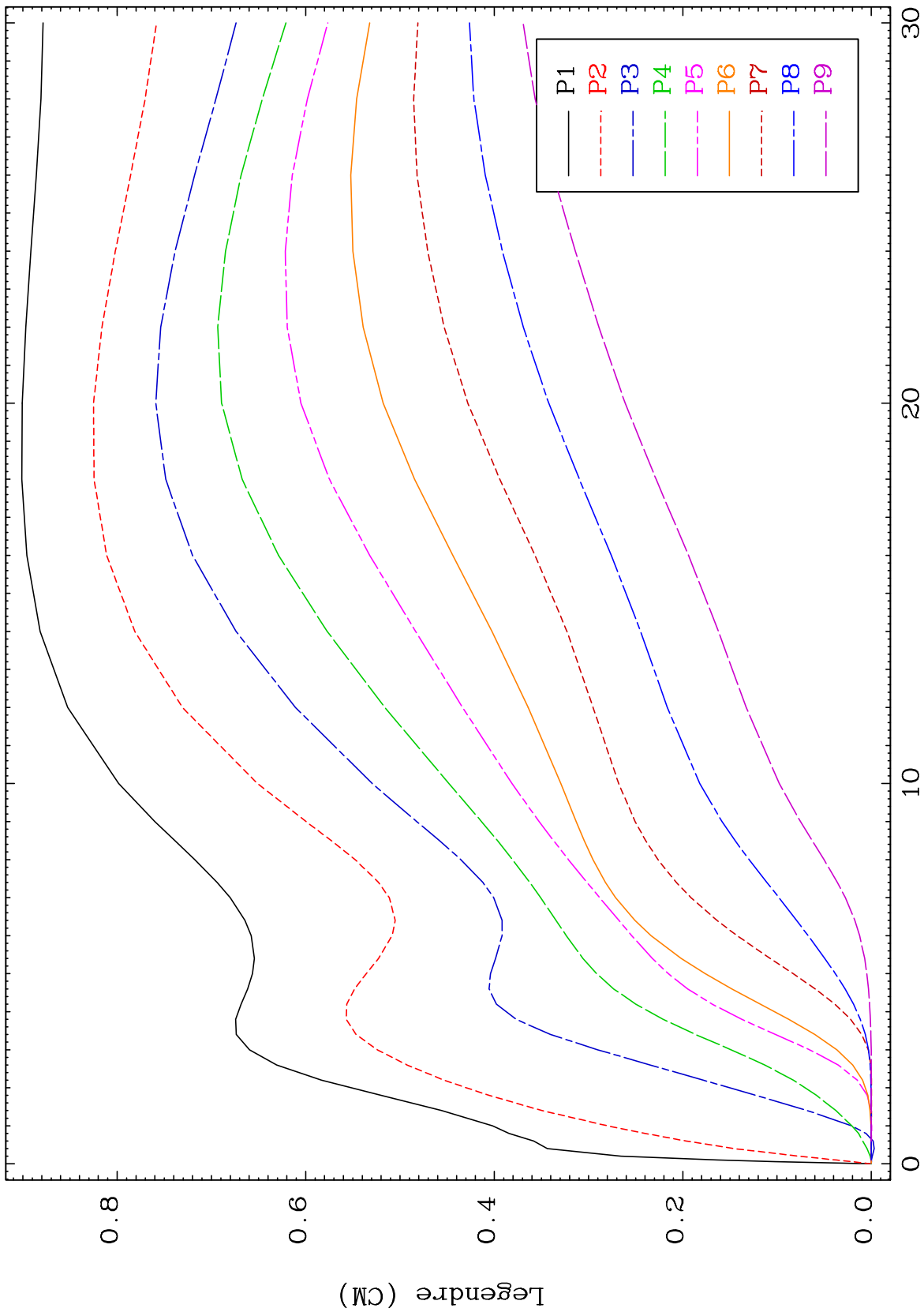




MAT 5449

Elastic Legendre Coefficients

54-Xe-132



16

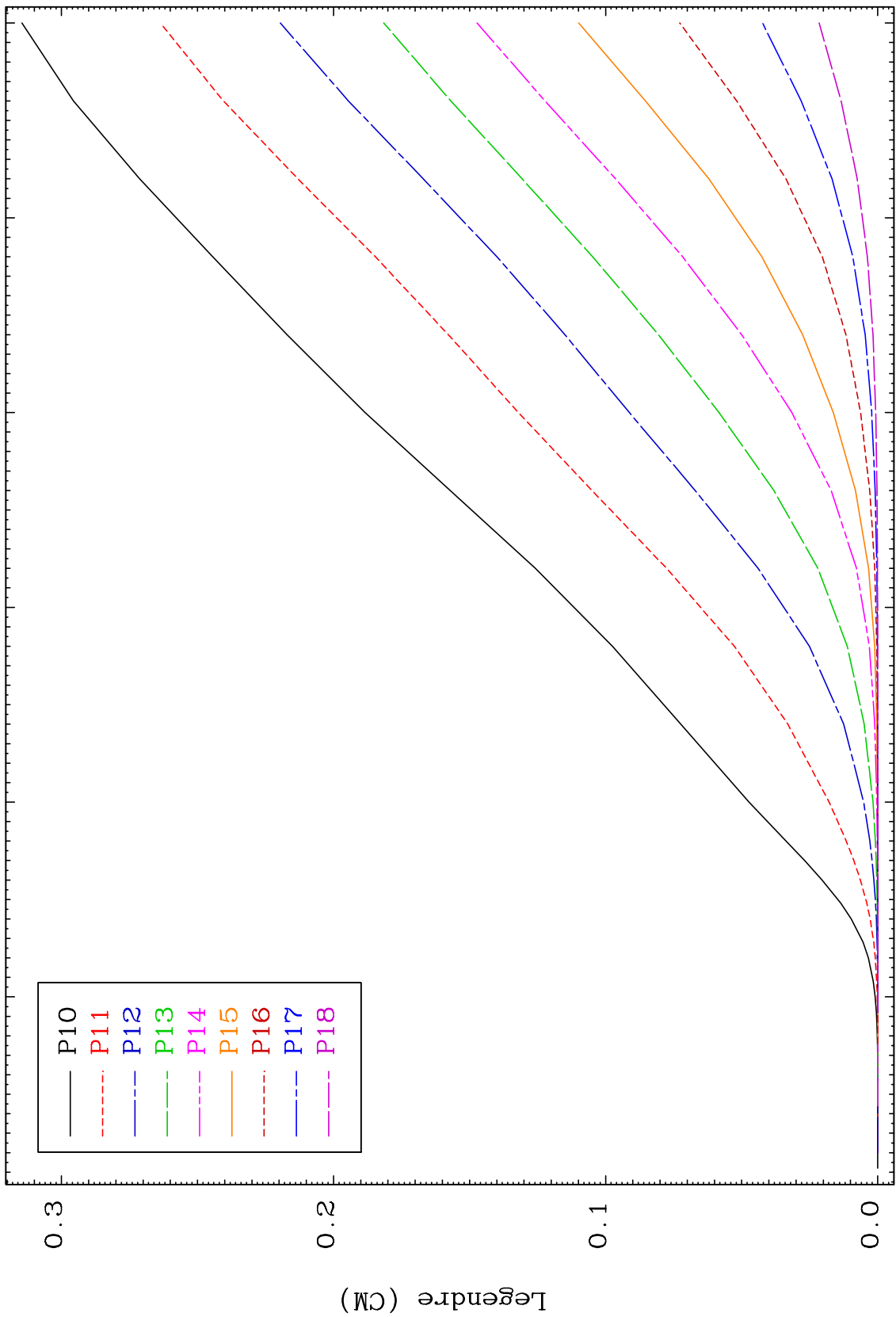
Incident Energy (MeV)

54-Xe-132

MAT 5449

Elastic Legendre Coefficients

54-Xe-132



17

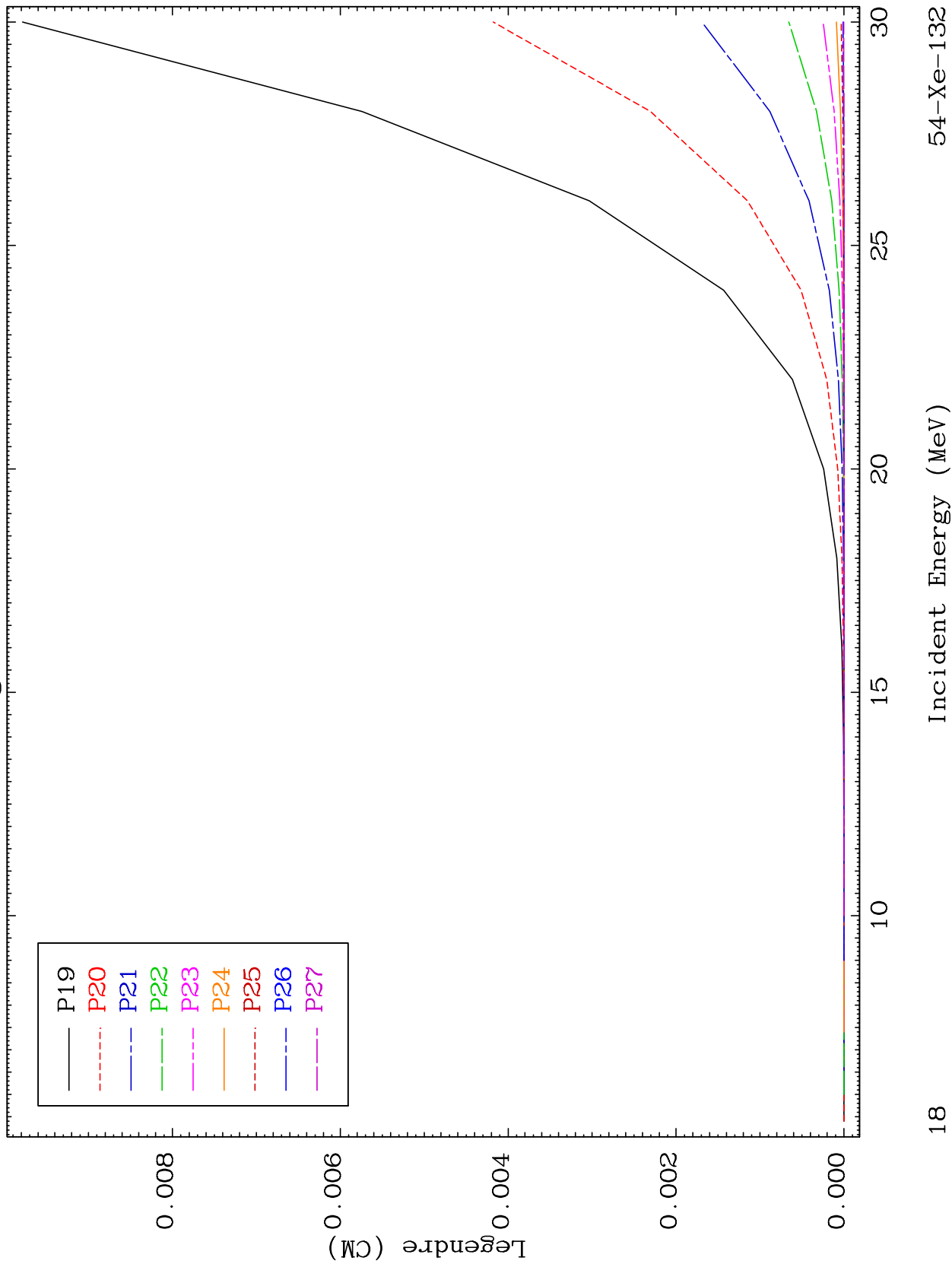
Incident Energy (MeV)

54-Xe-132

MAT 5449

### Elastic Legendre Coefficients

54-Xe-132



18

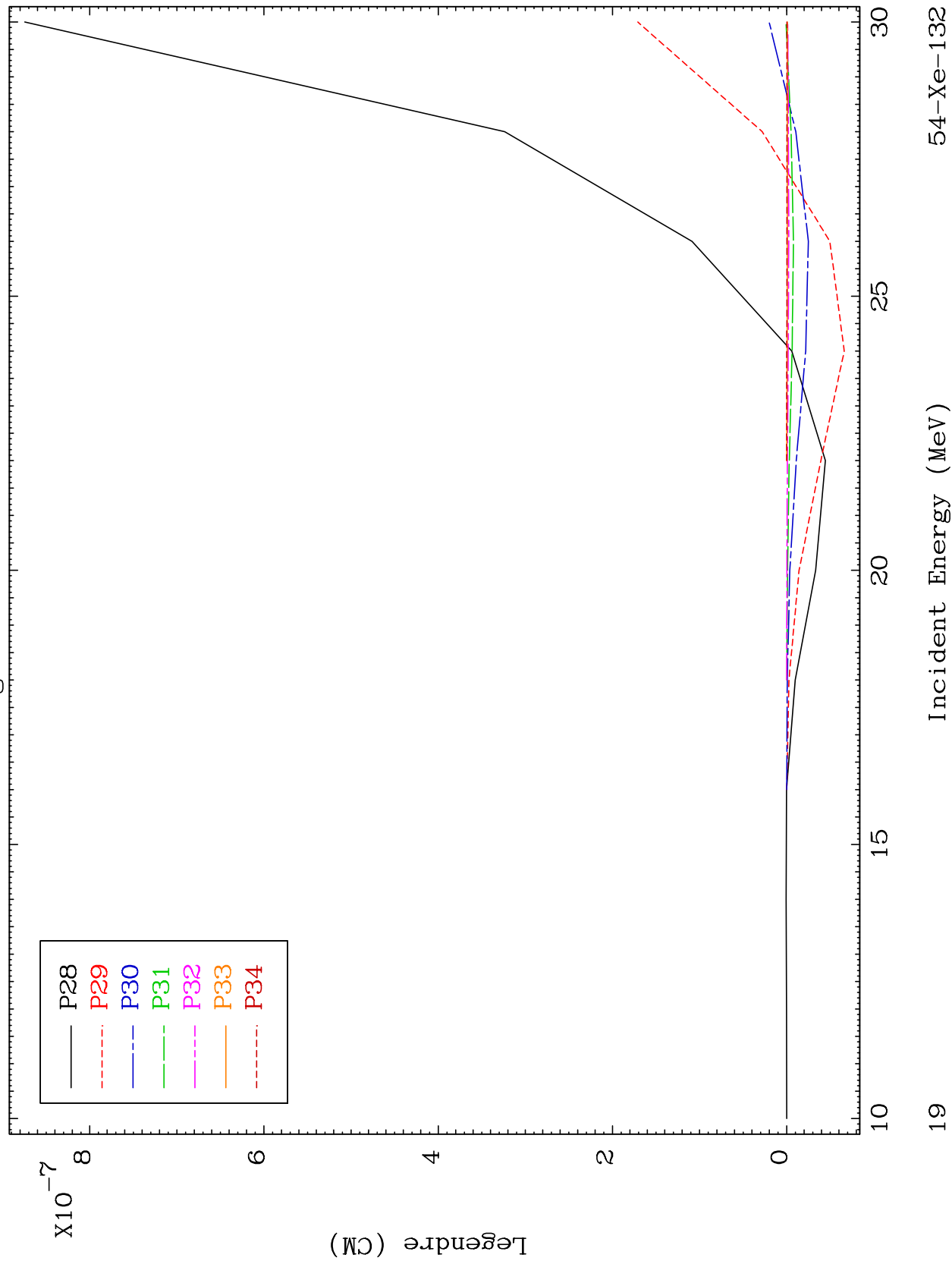
Incident Energy (MeV)

54-Xe-132

MAT 5449

Elastic Legendre Coefficients

54-Xe-132



54-Xe-132

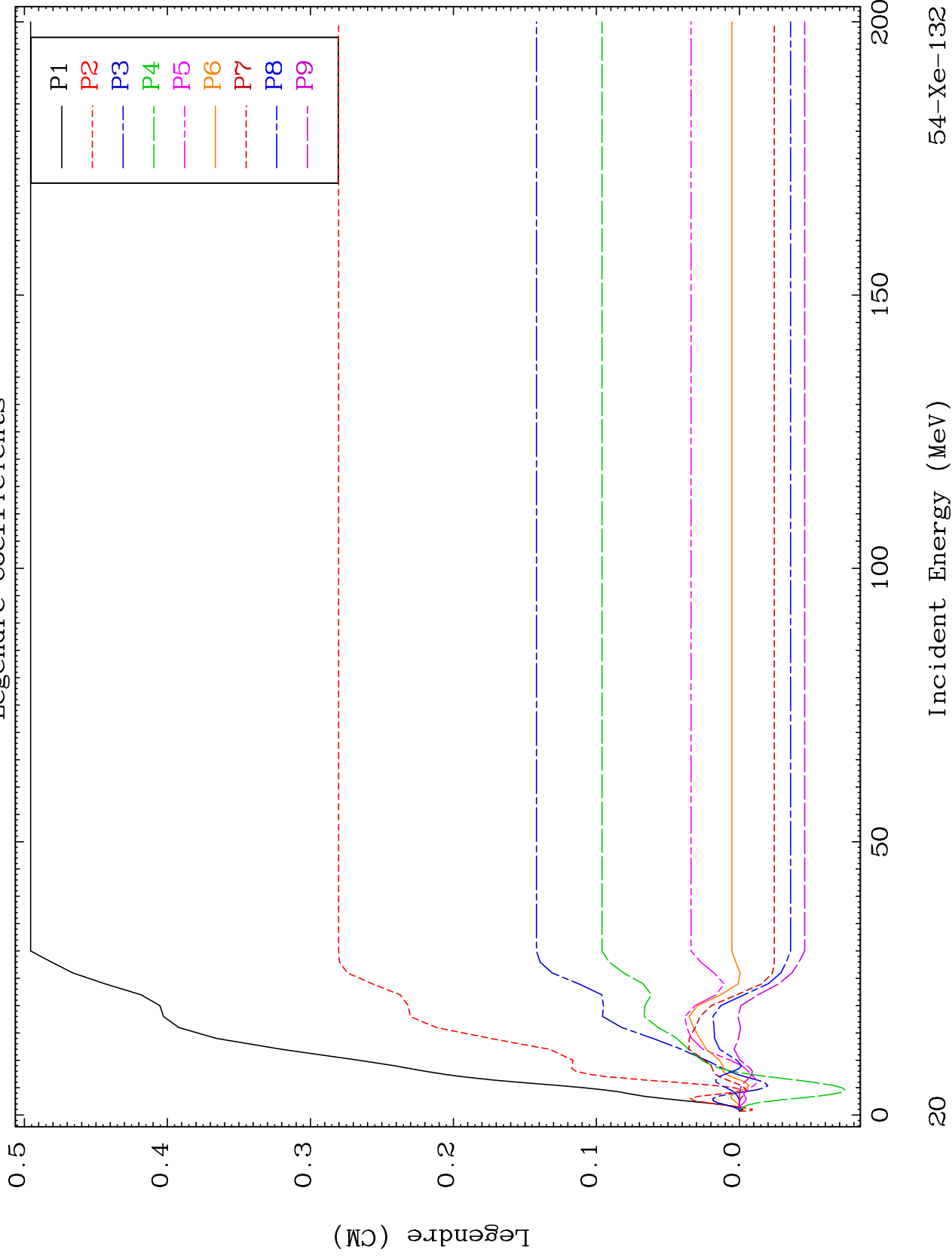
Incident Energy (MeV)

19

MAT 5449

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

54-Xe-132



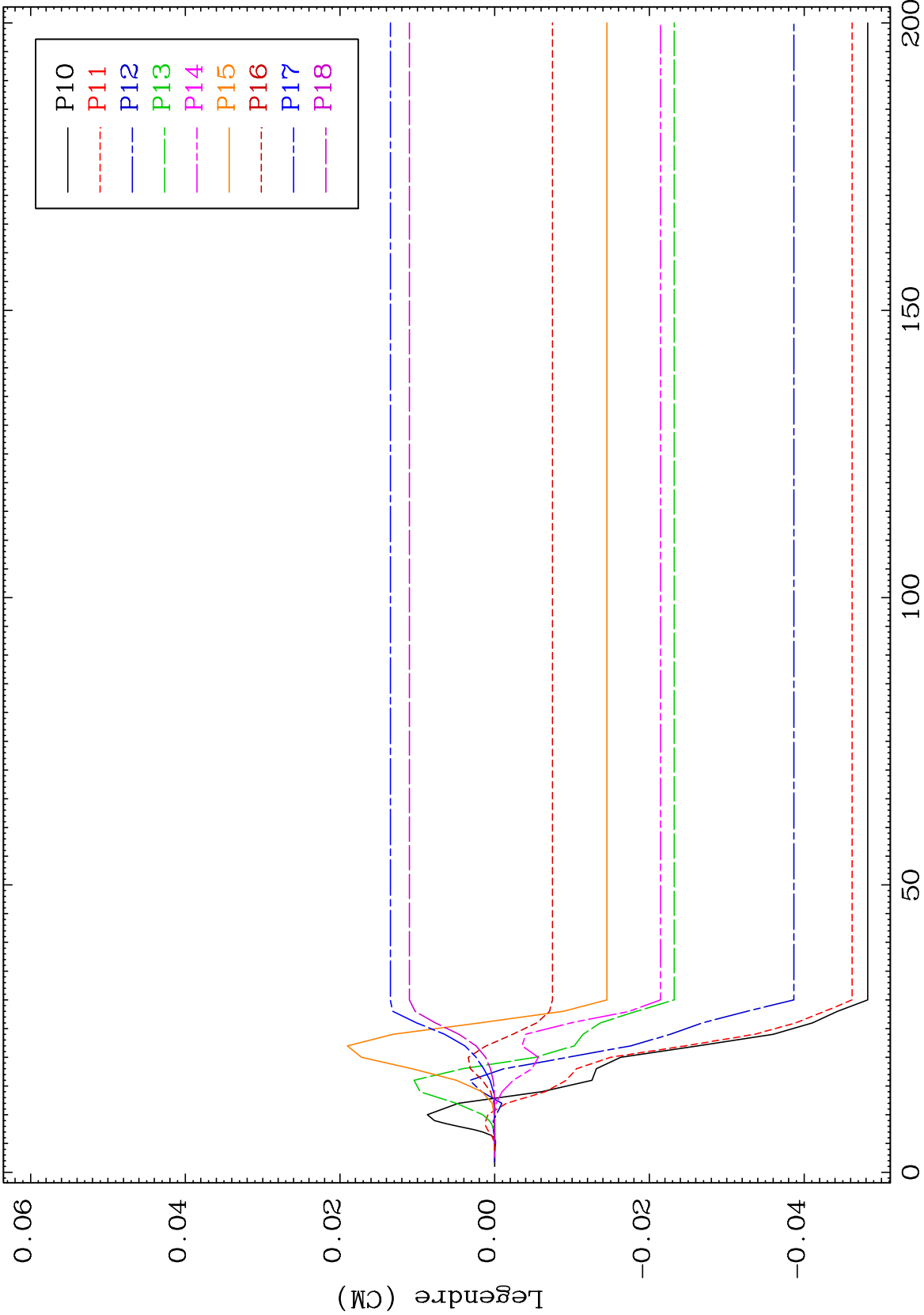
54-Xe-132

Incident Energy (MeV)

MAT 5449

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

54-Xe-132



21

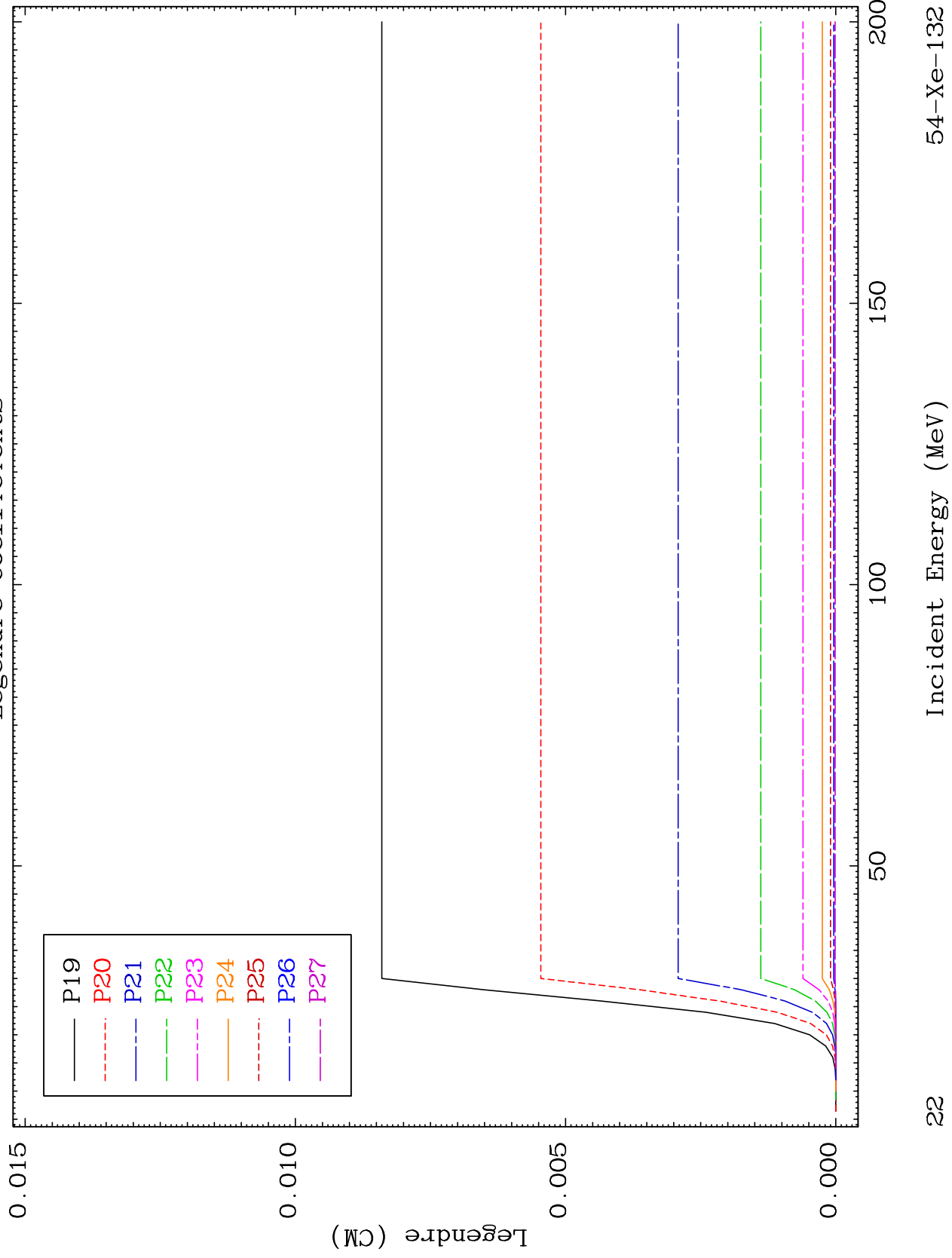
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



22

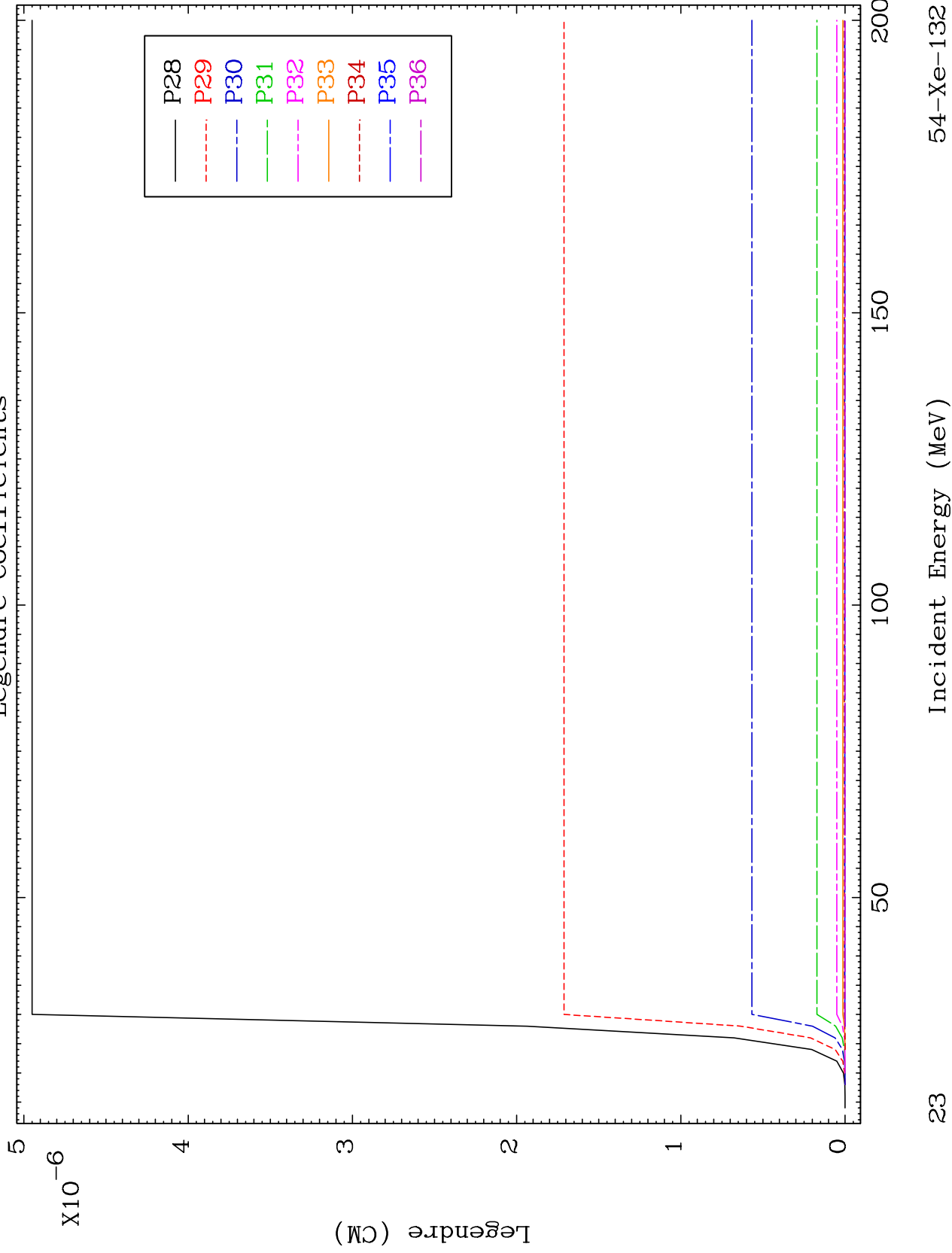
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



23

54-Xe-132

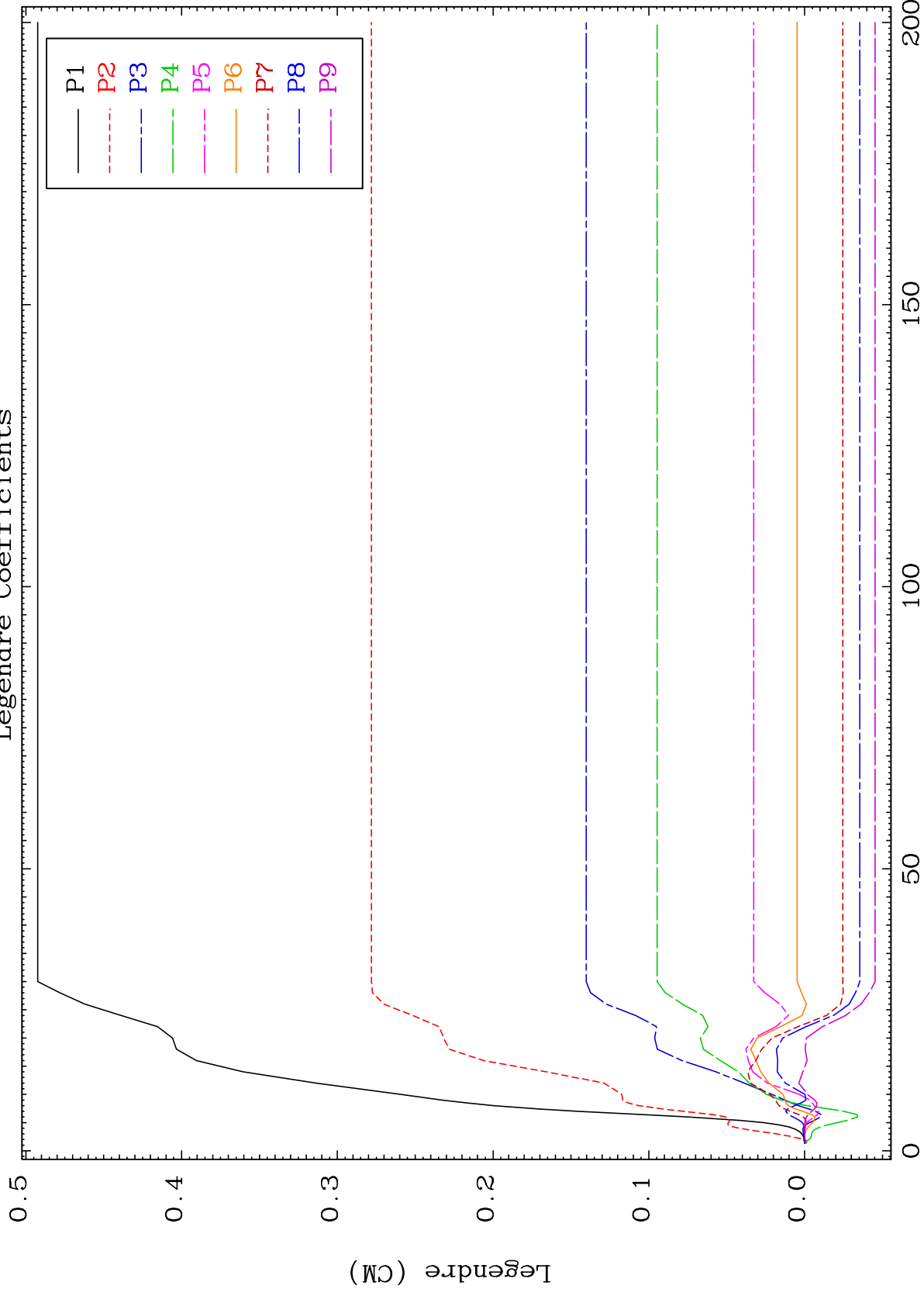


MAT 5449

MT= 52 (n,n') Level

54-Xe-132

Legendre Coefficients



24

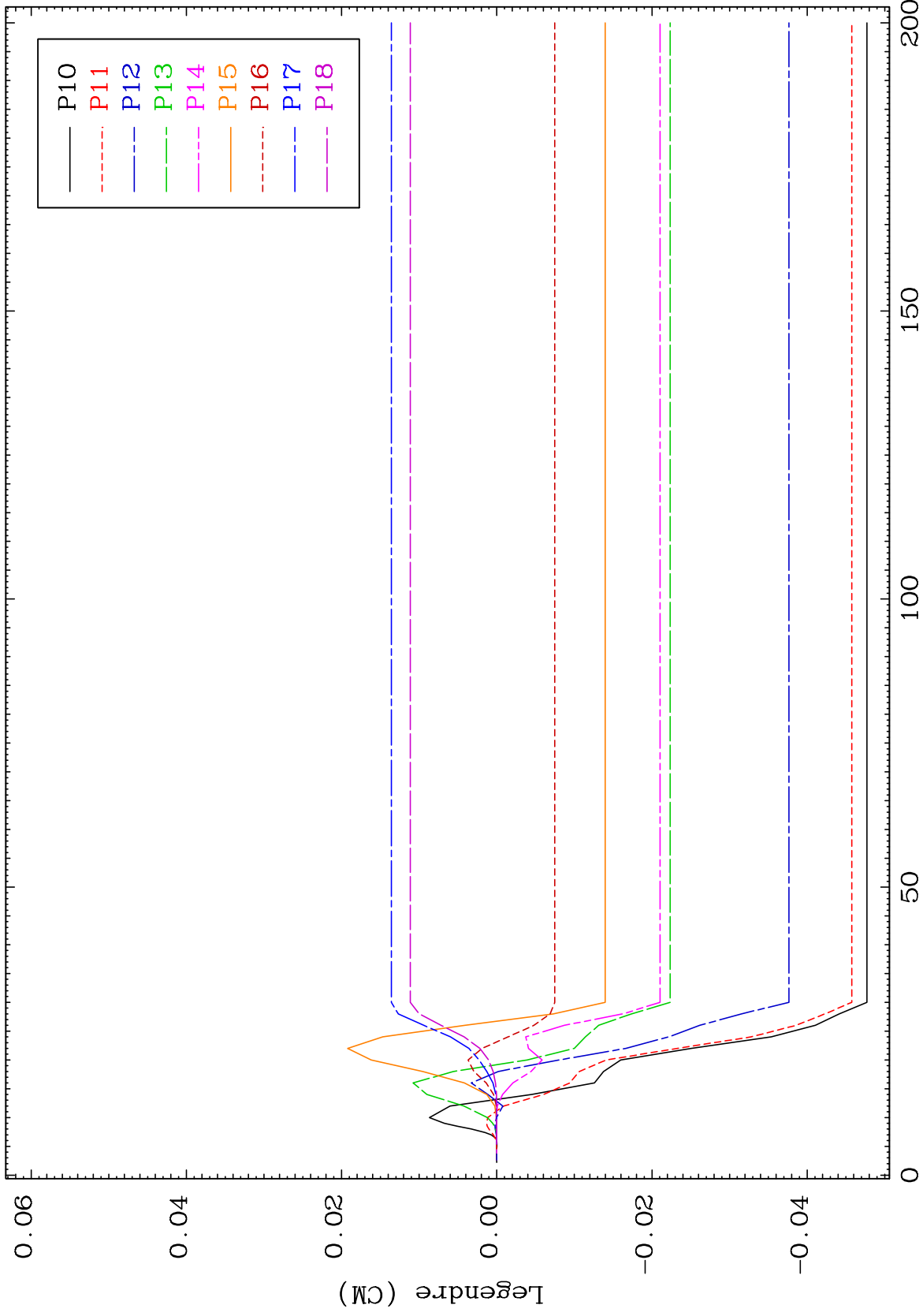
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



25

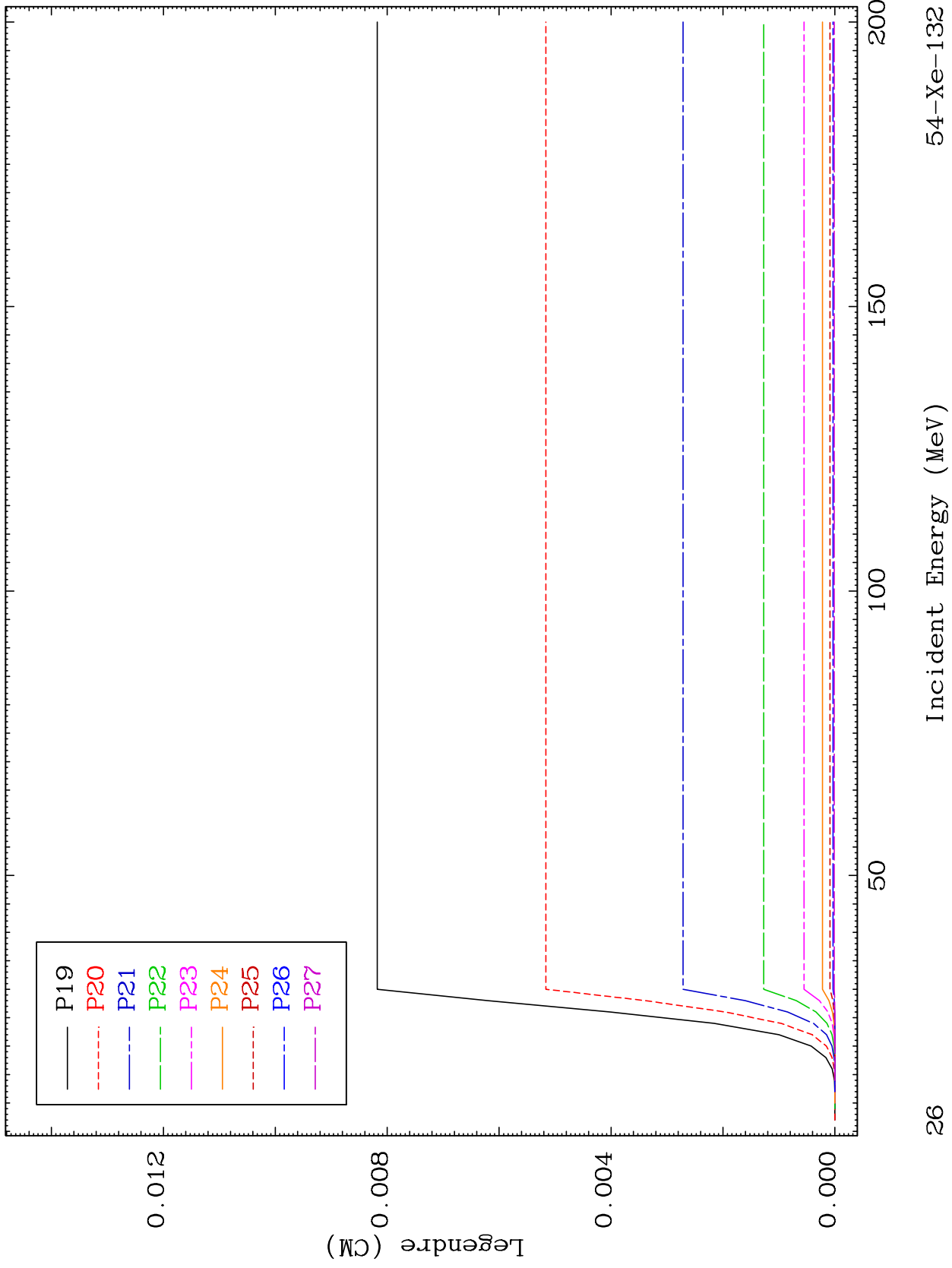
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



26

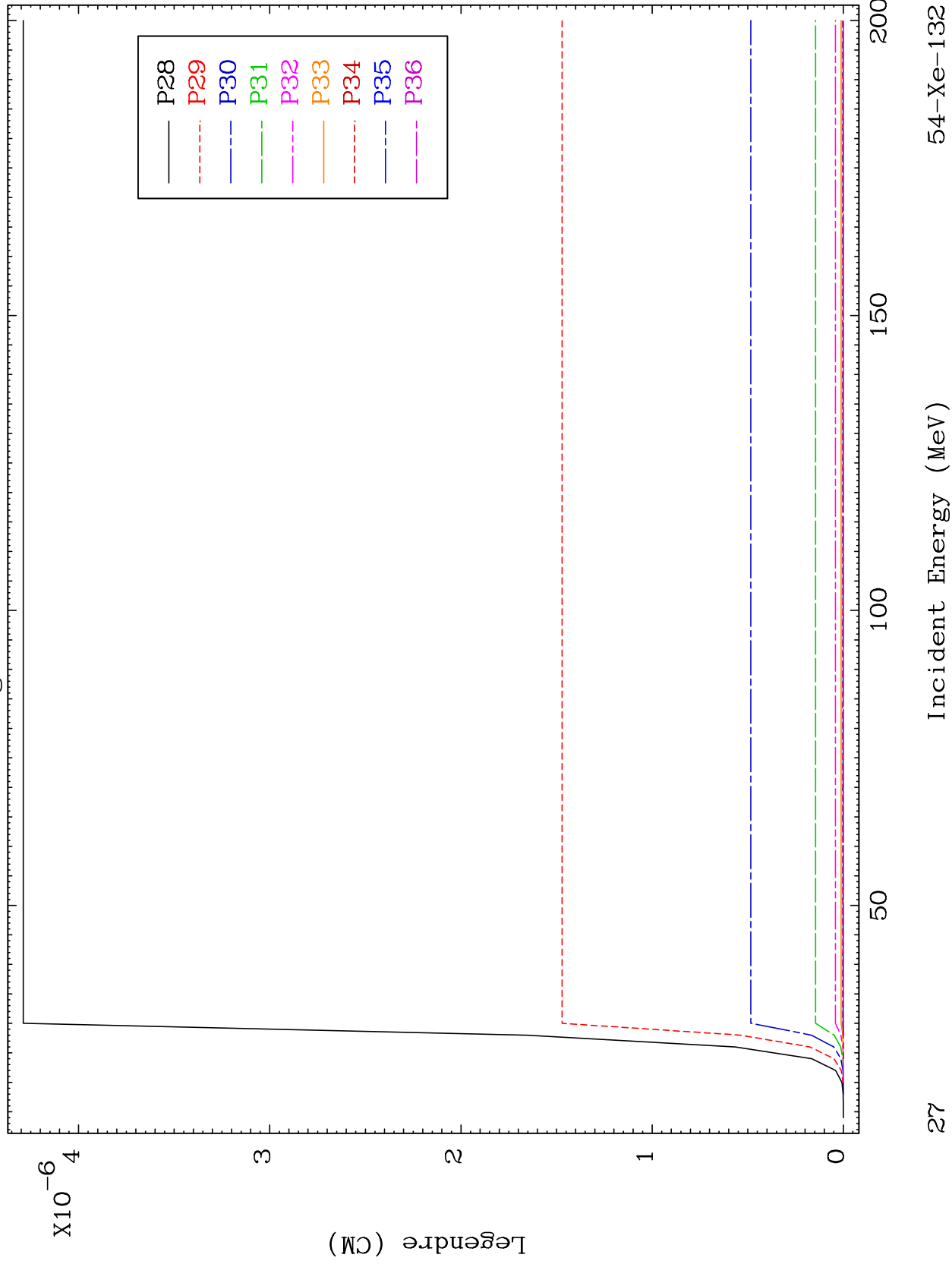
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

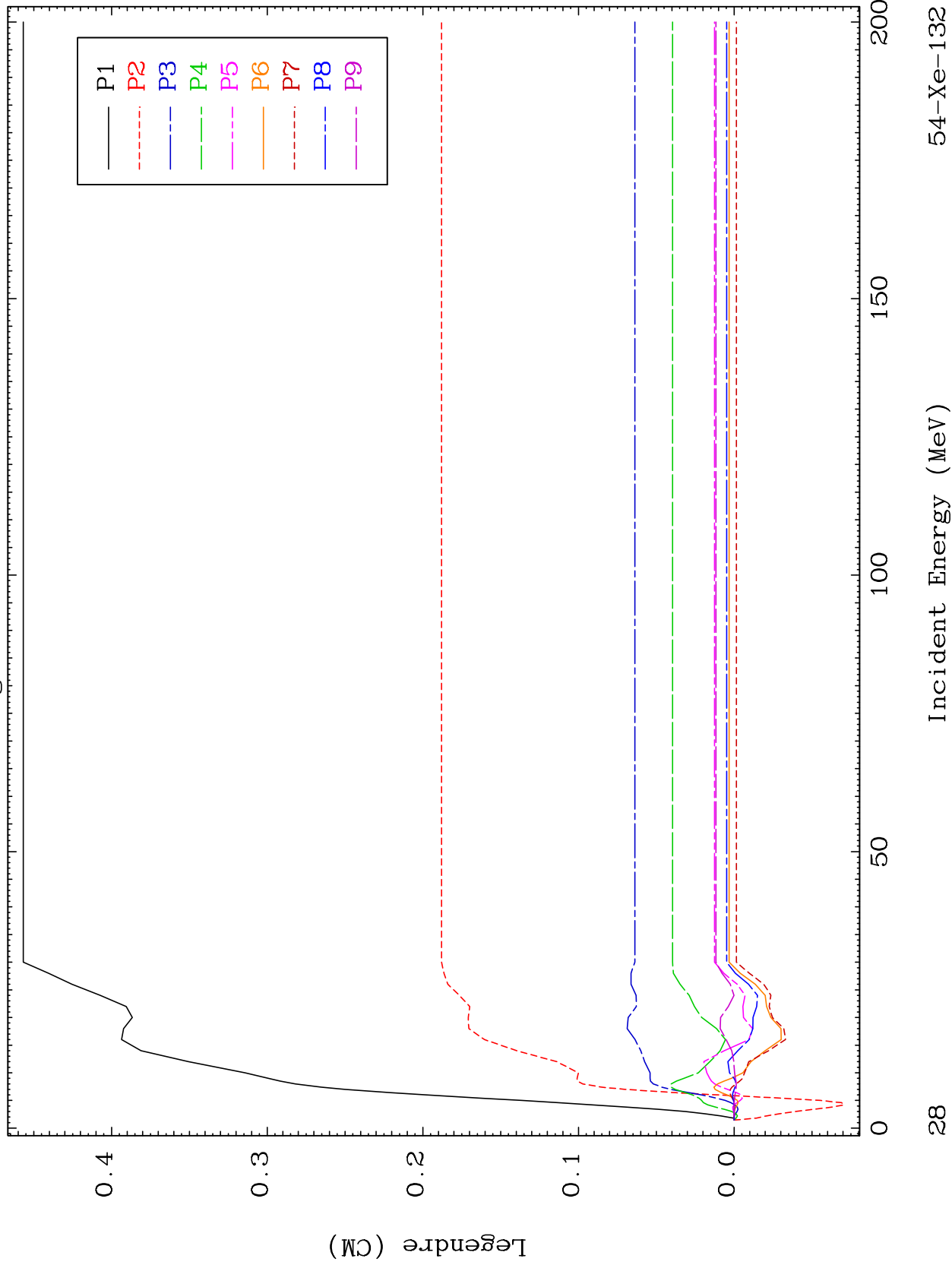
54-Xe-132



MAT 5449

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

54-Xe-132



54-Xe-132

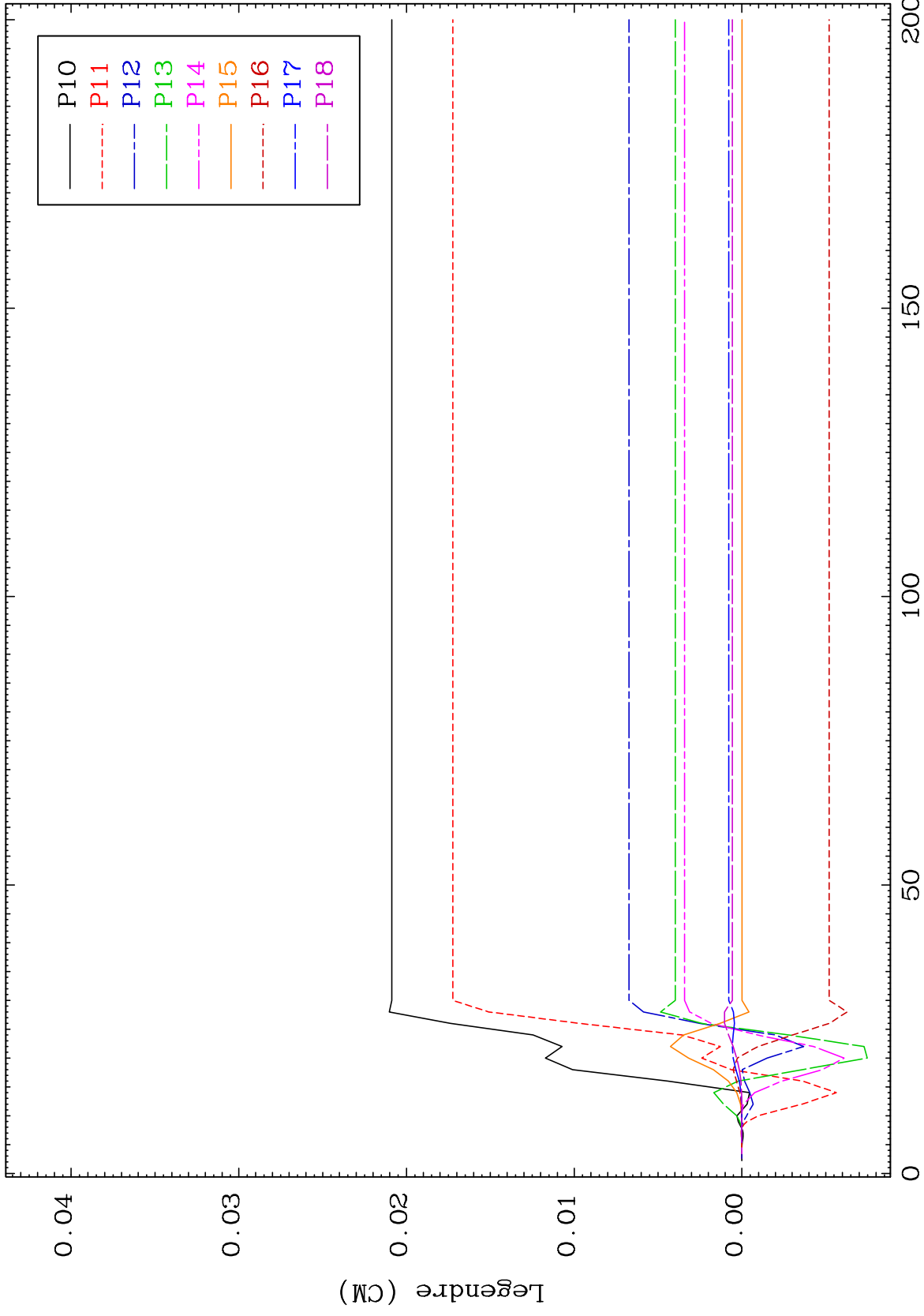
Incident Energy (MeV)

28

MAT 5449

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

54-Xe-132



29

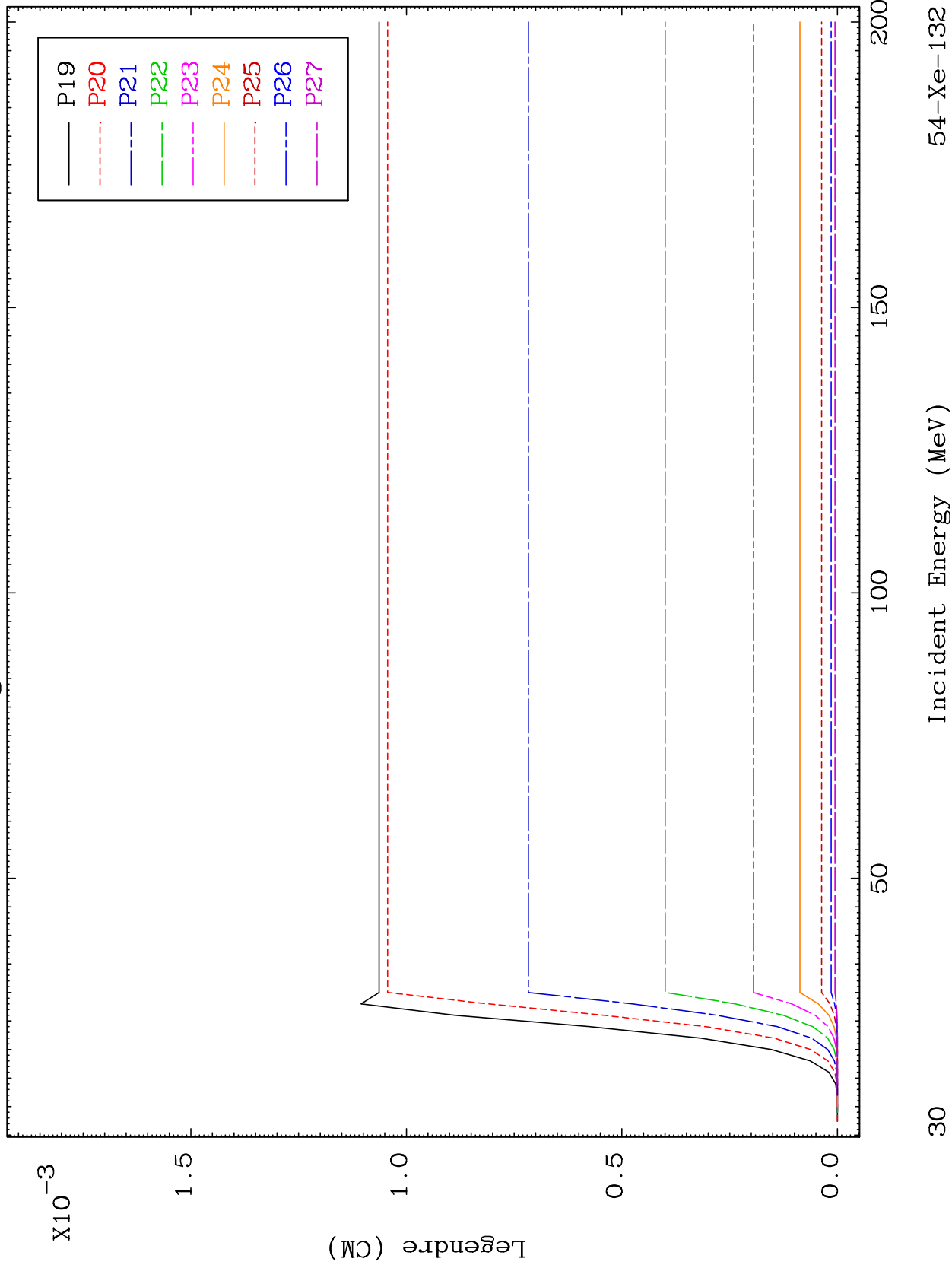
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



54-Xe-132

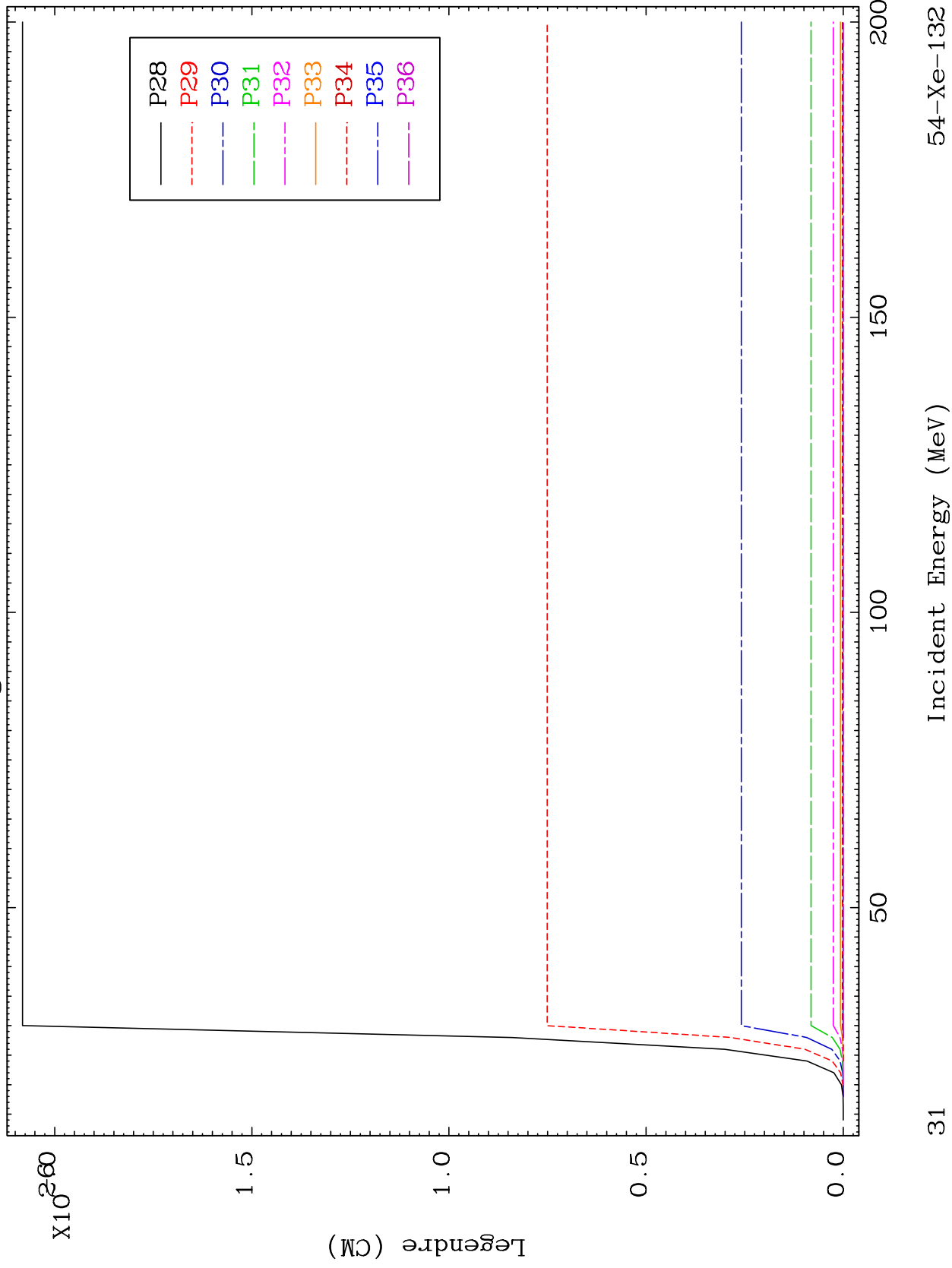
Incident Energy (MeV)

30

MAT 5449

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

54-Xe-132



31

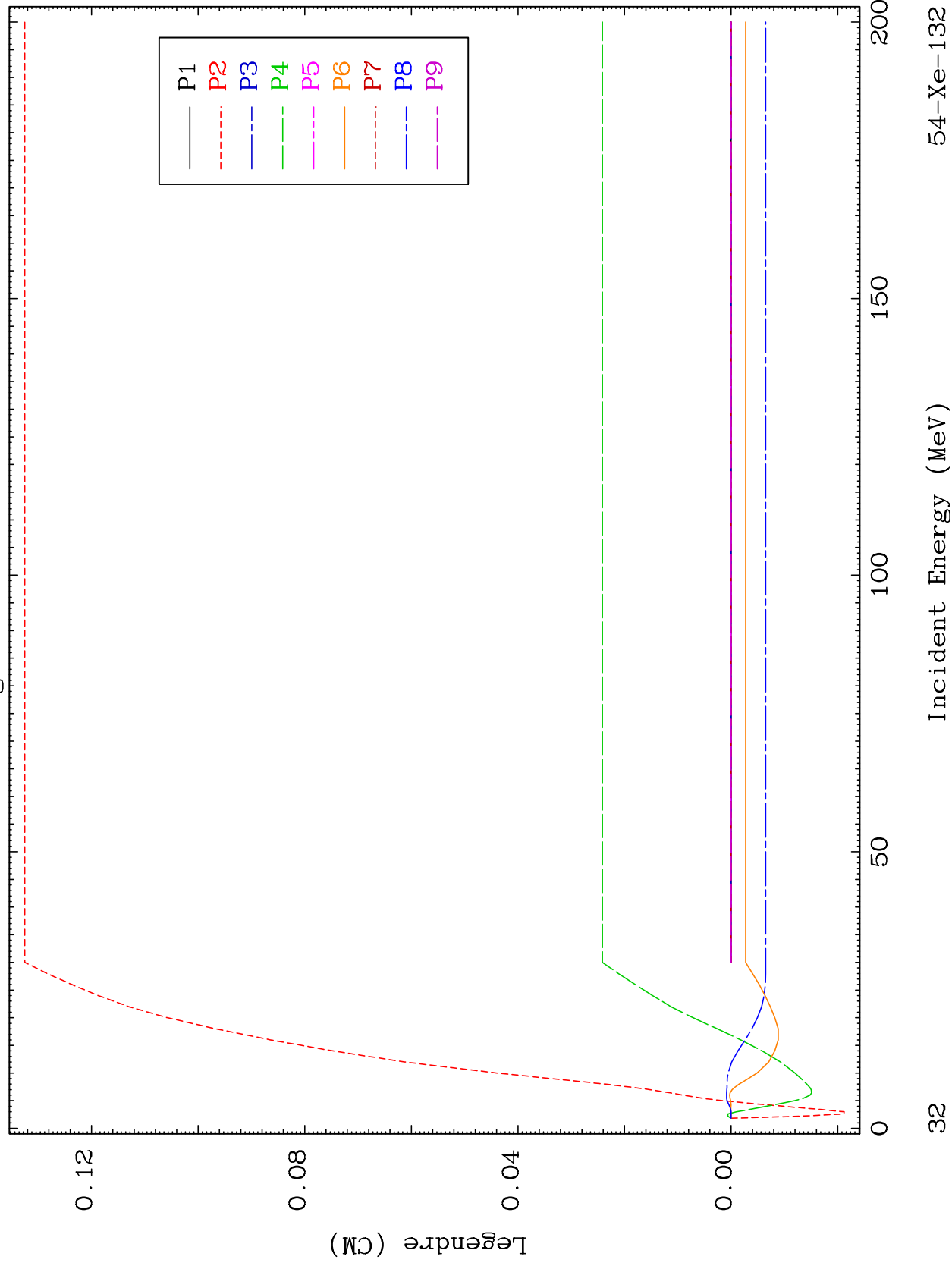
54-Xe-132



MAT 5449

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

54-Xe-132



54-Xe-132

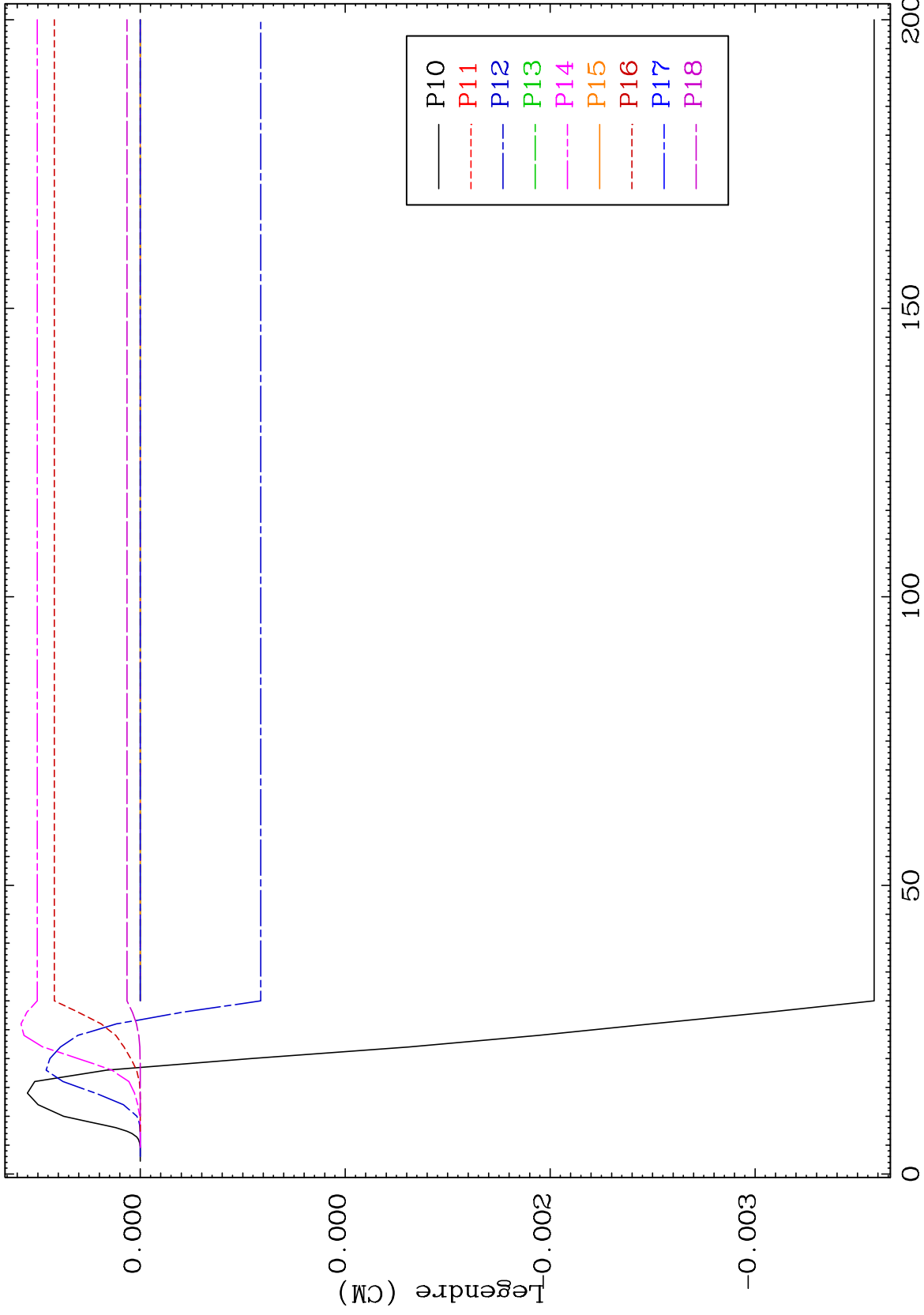
Incident Energy (MeV)

32

MAT 5449

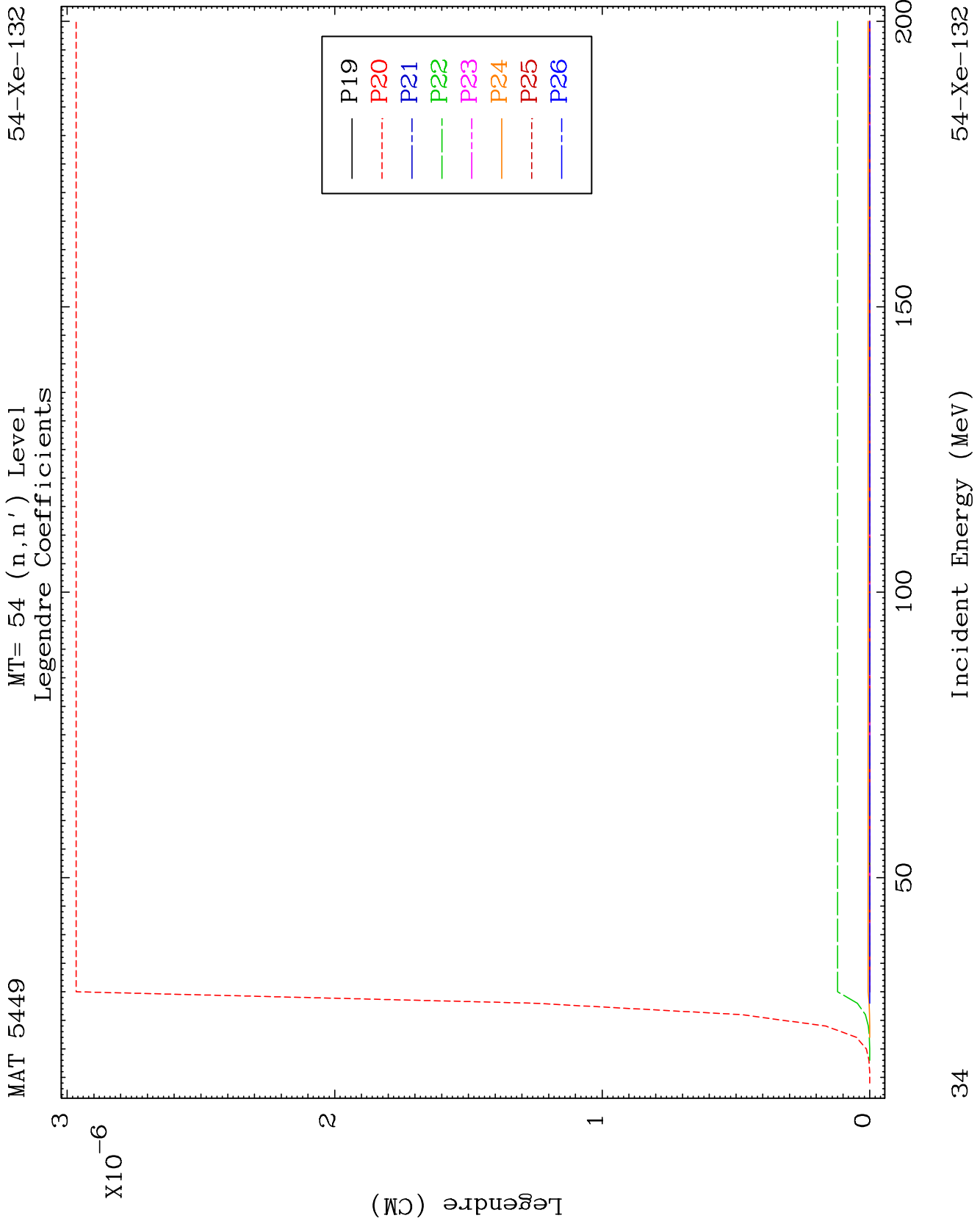
MT= 54 (n,n') Level  
Legendre Coefficients

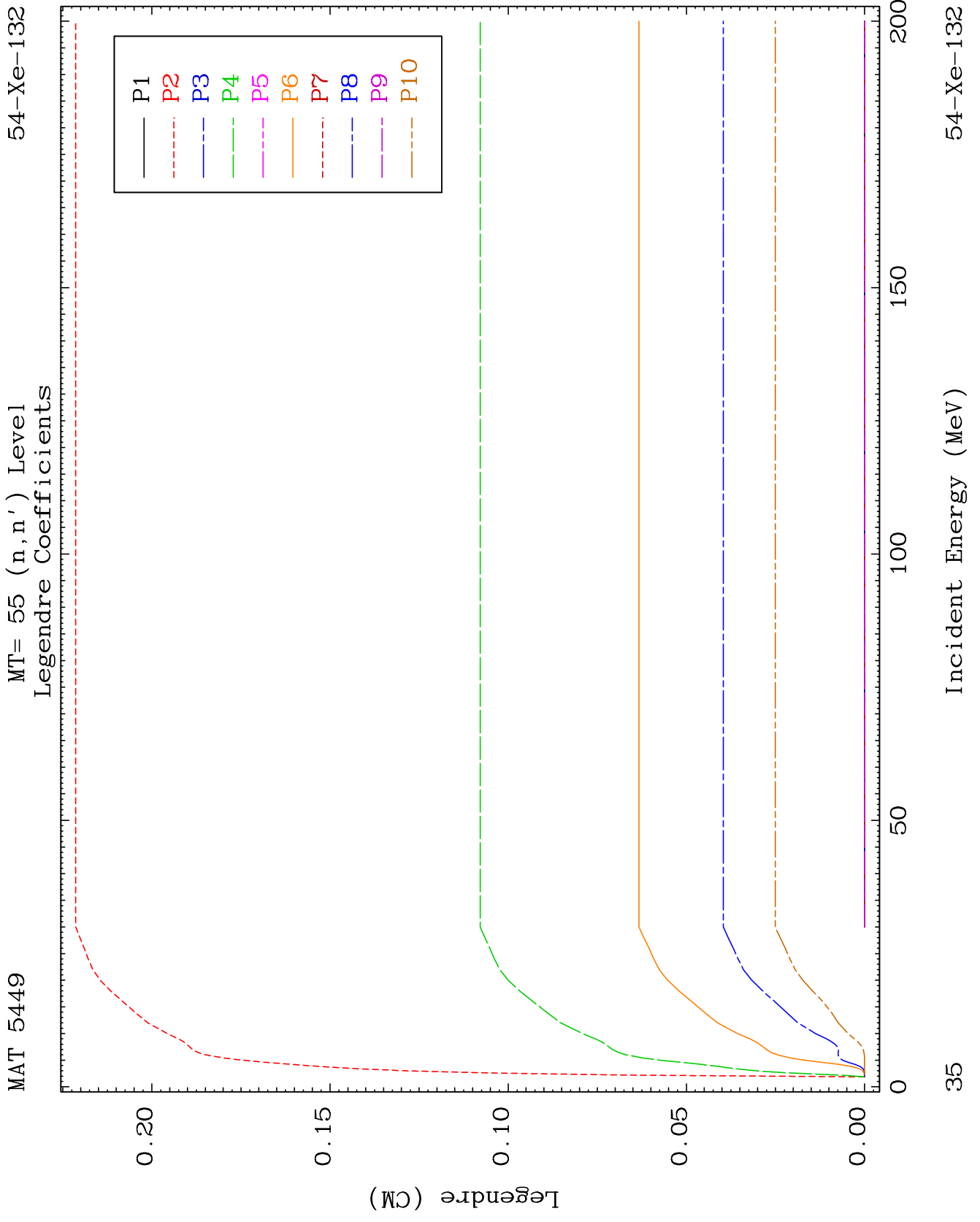
54-Xe-132



33

54-Xe-132



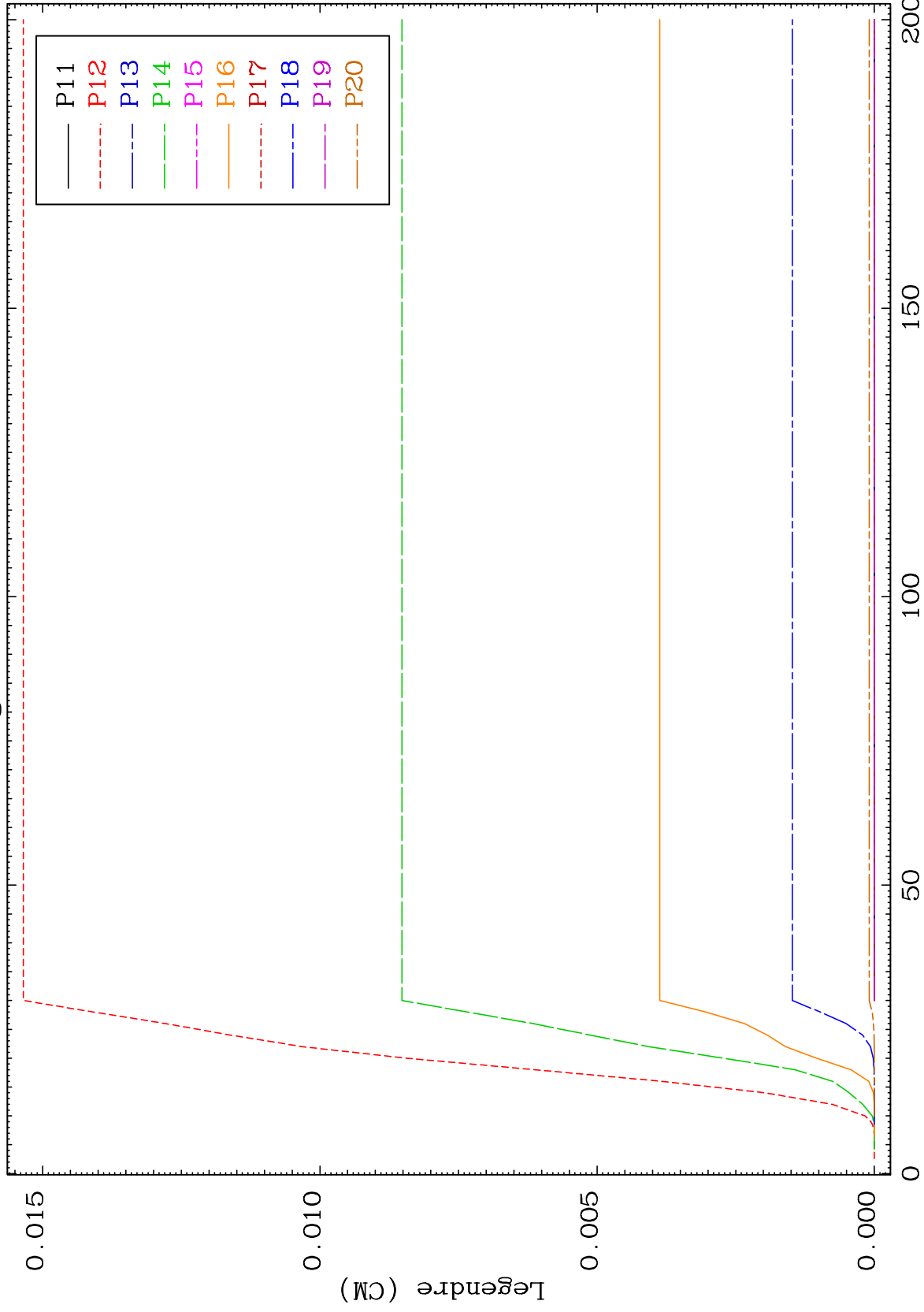


MAT 5449

MT= 55 (n,n') Level

54-Xe-132

Legendre Coefficients



36

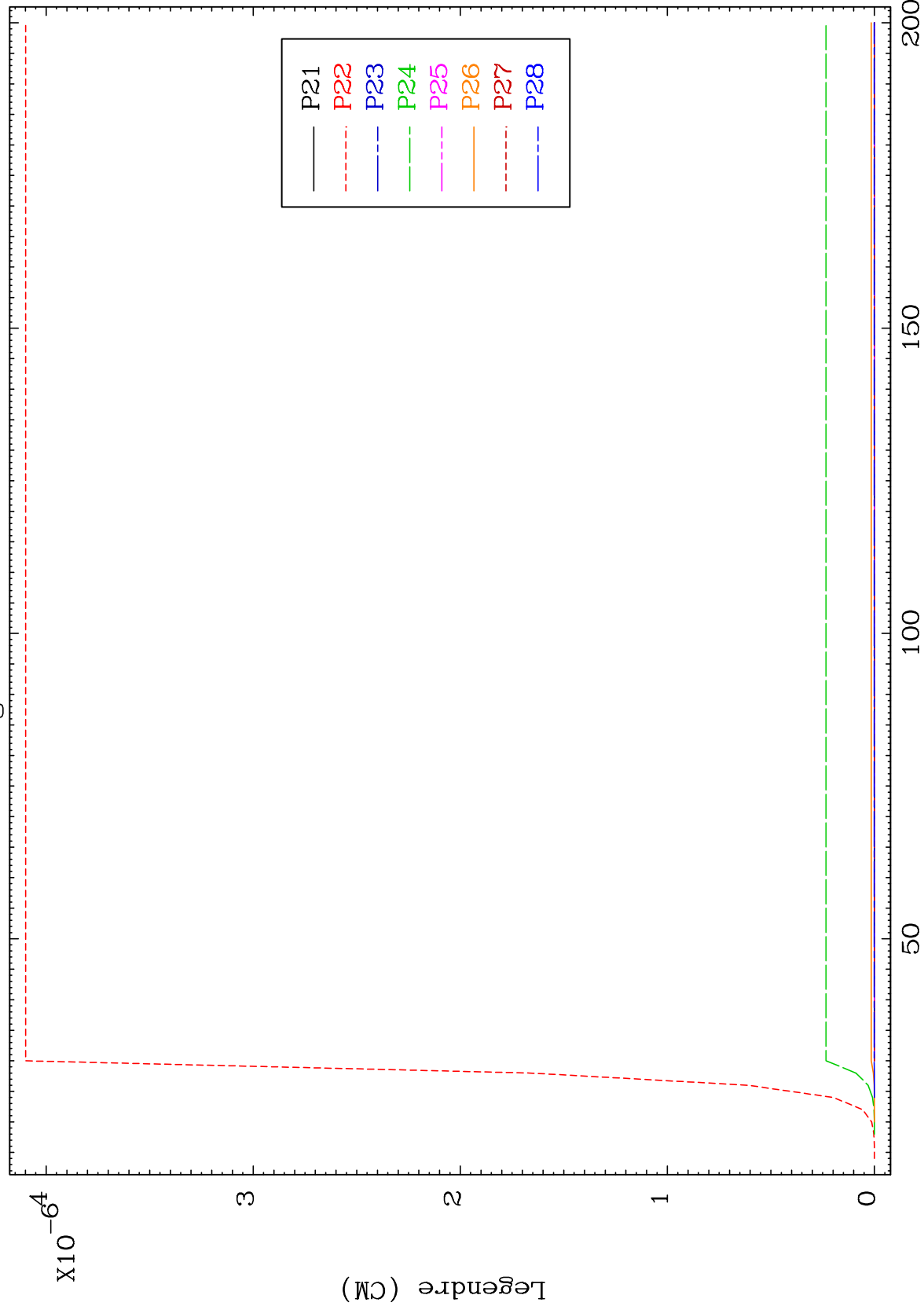
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



37

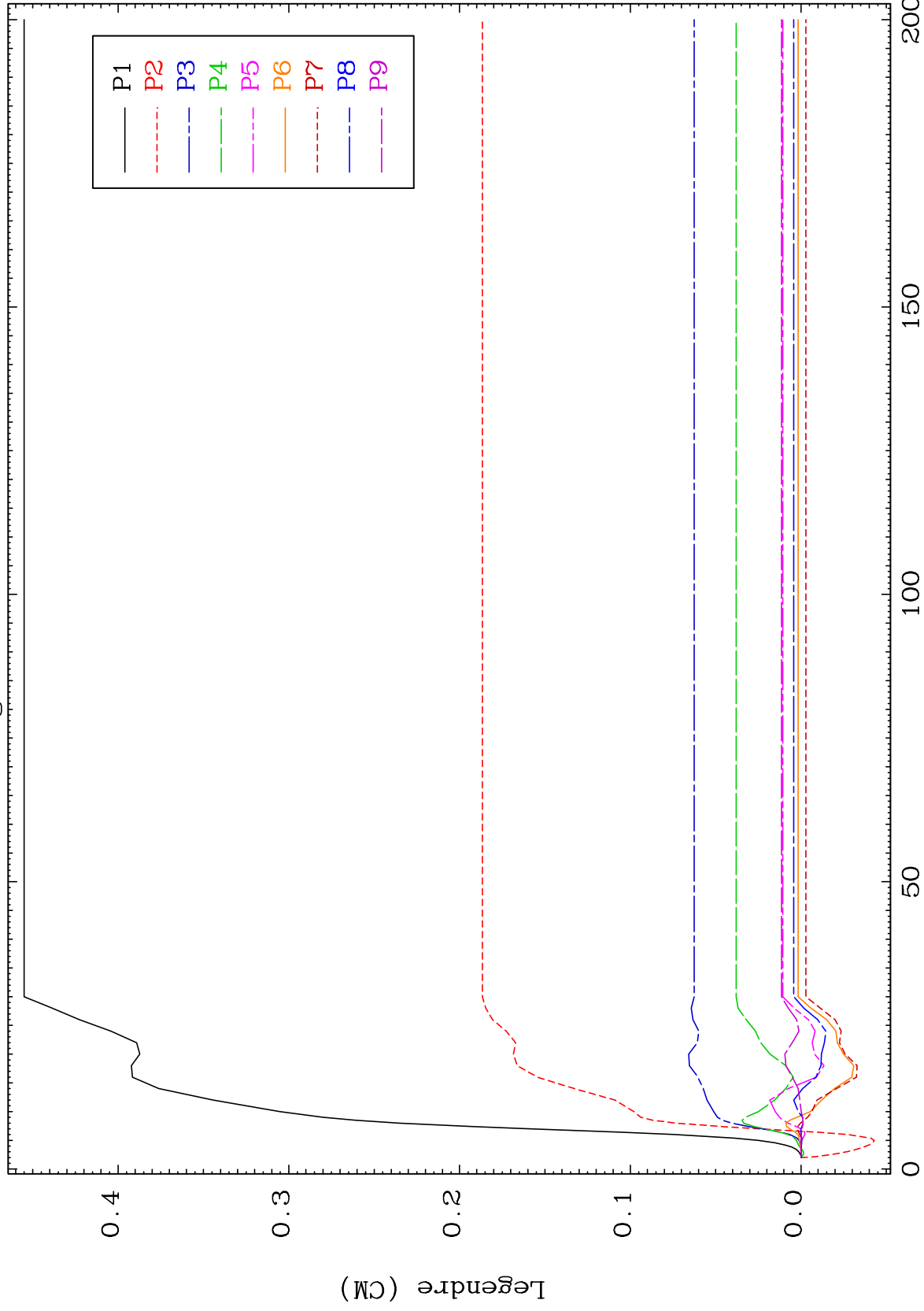
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



54-Xe-132

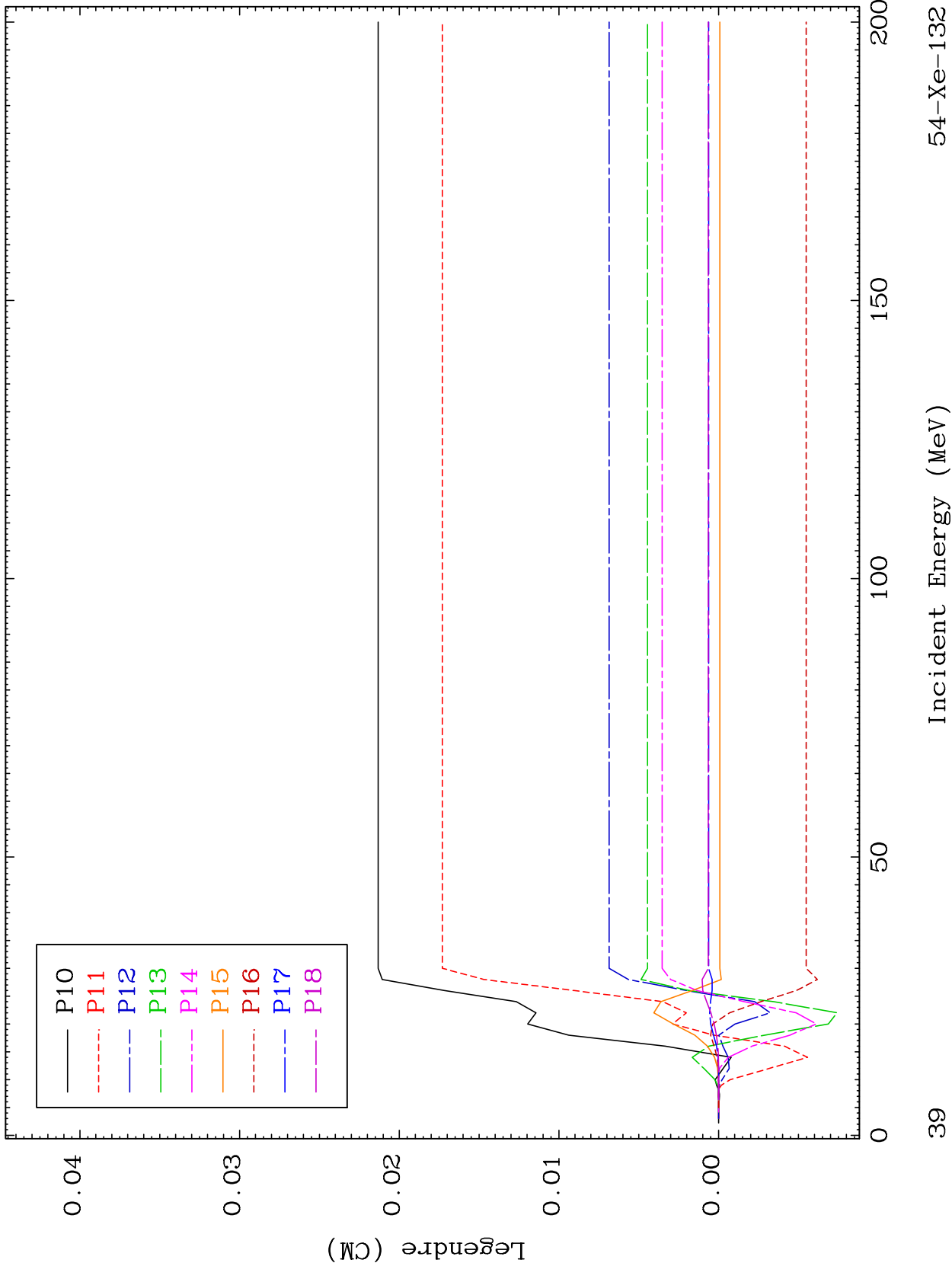
Incident Energy (MeV)

38

MAT 5449

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

54-Xe-132



39

Incident Energy (MeV)

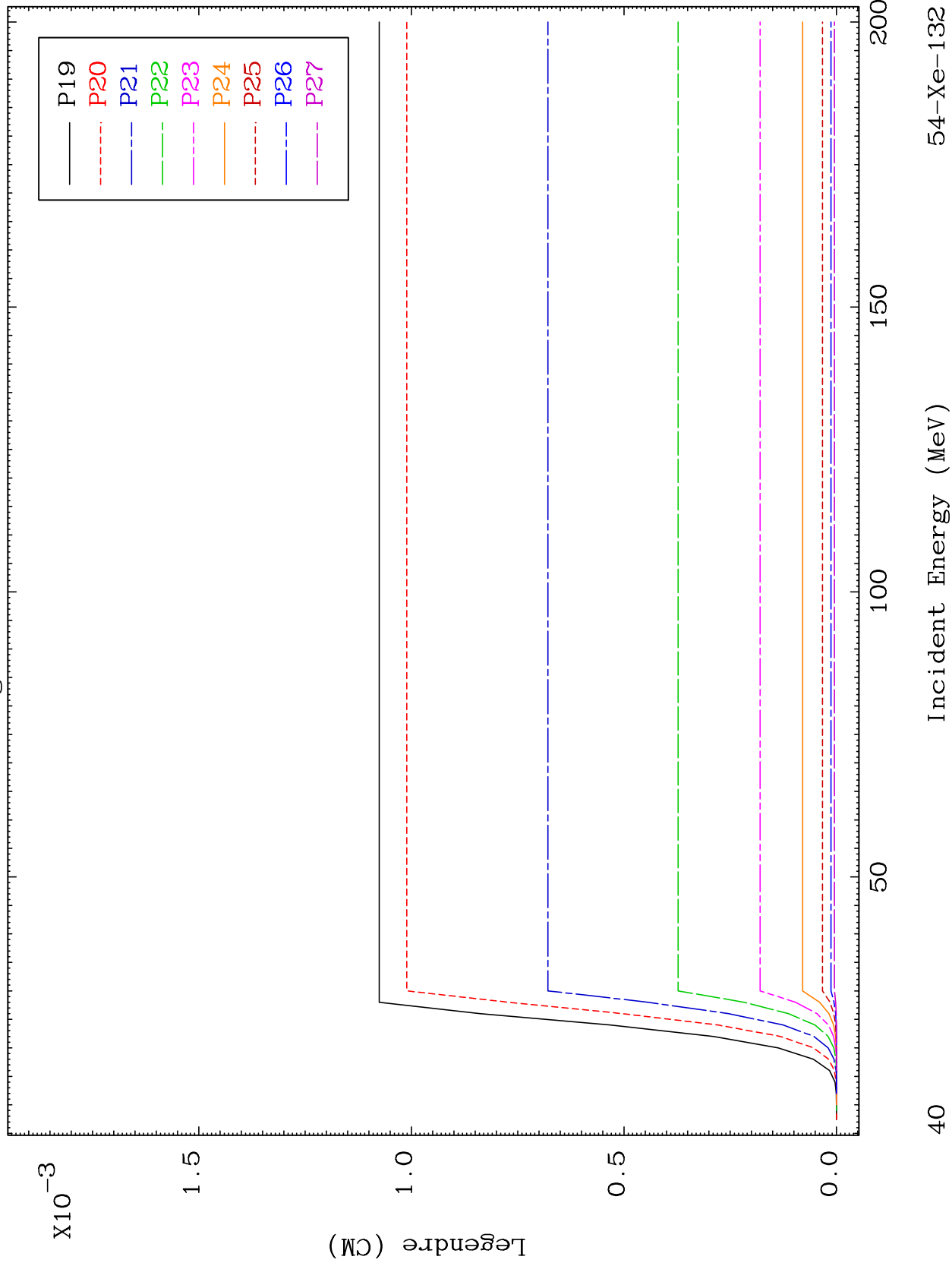
54-Xe-132



MAT 5449

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

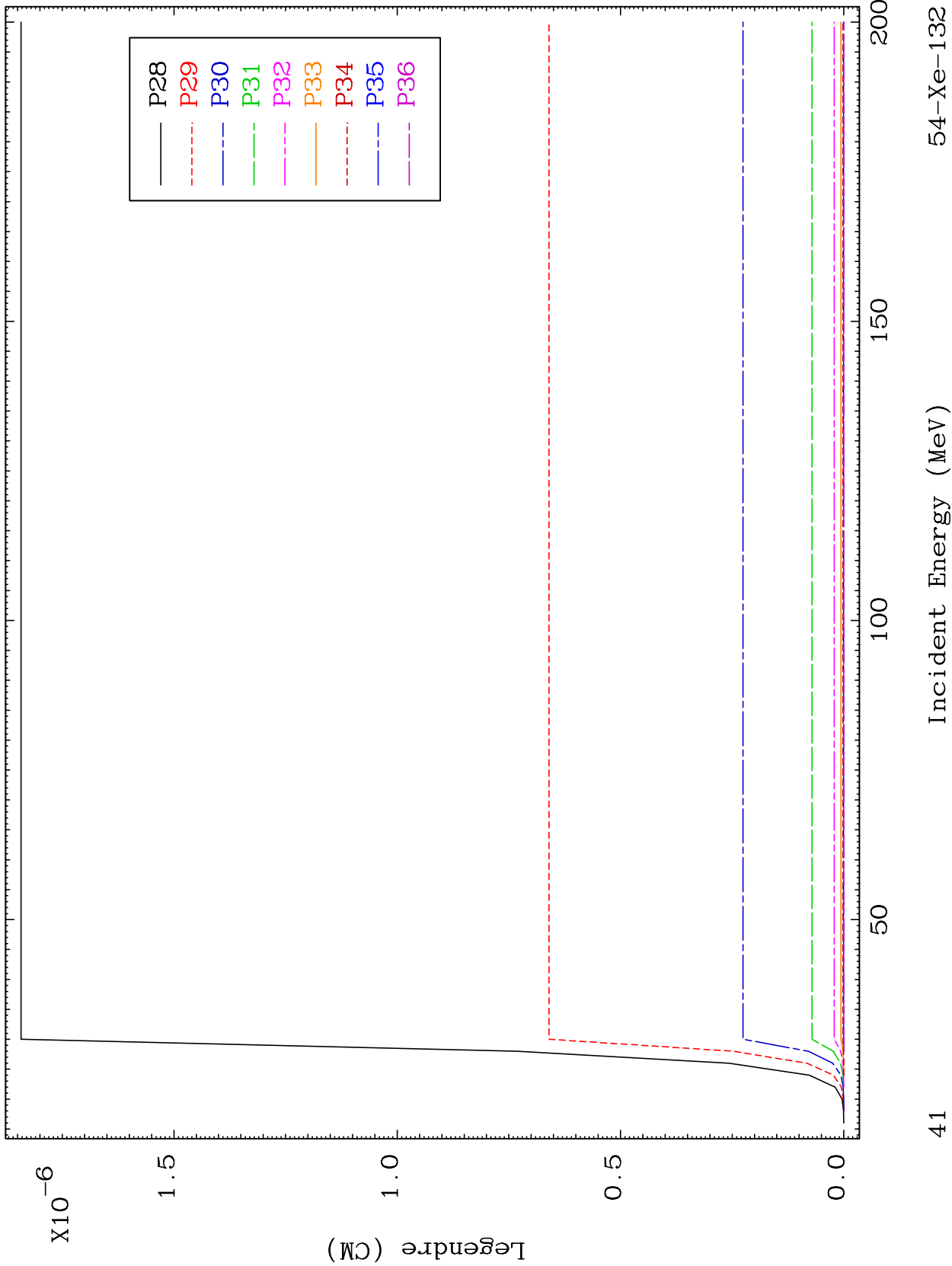
54-Xe-132



MAT 5449

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

54-Xe-132



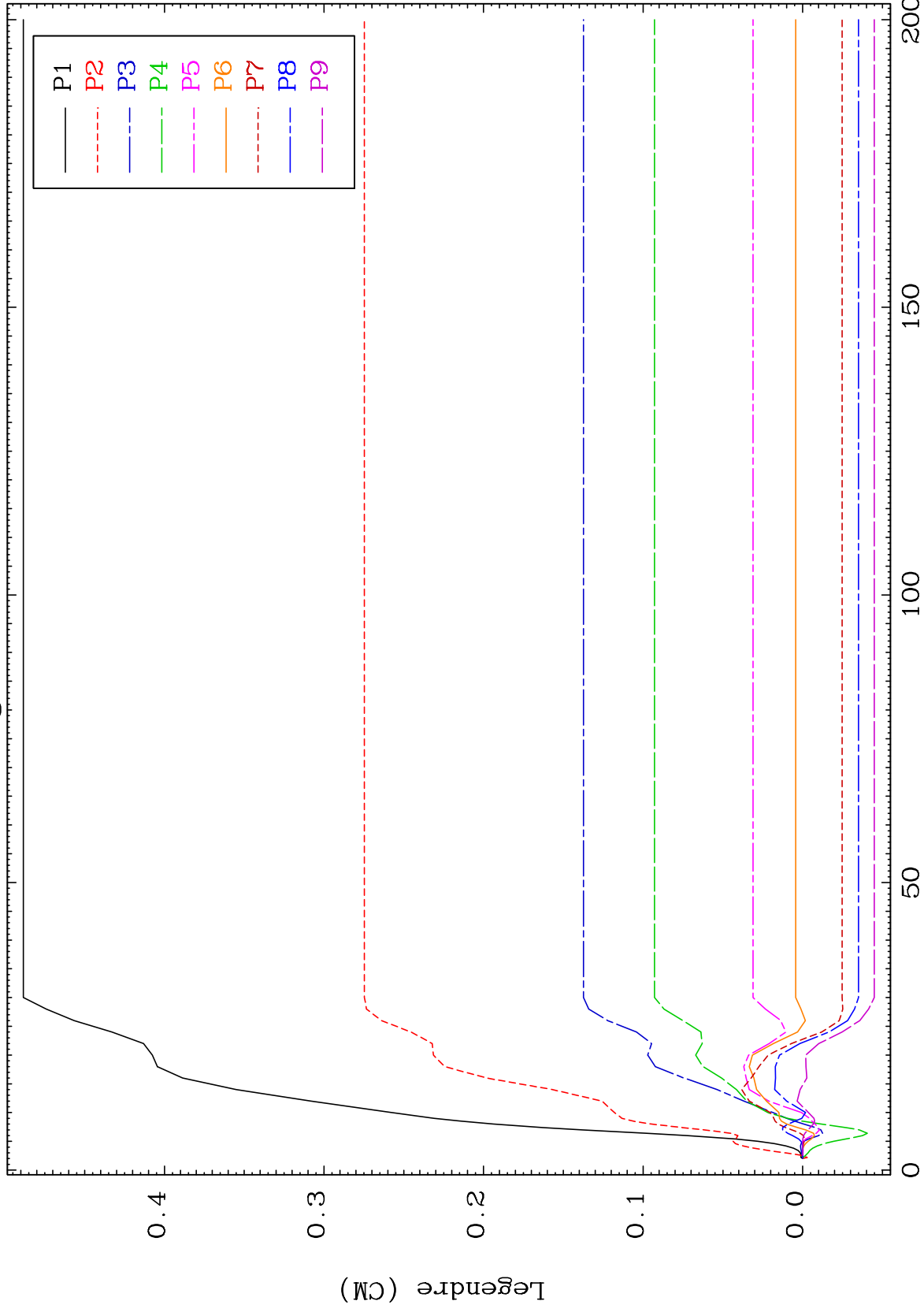
41

54-Xe-132

MAT 5449

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

54-Xe-132



42

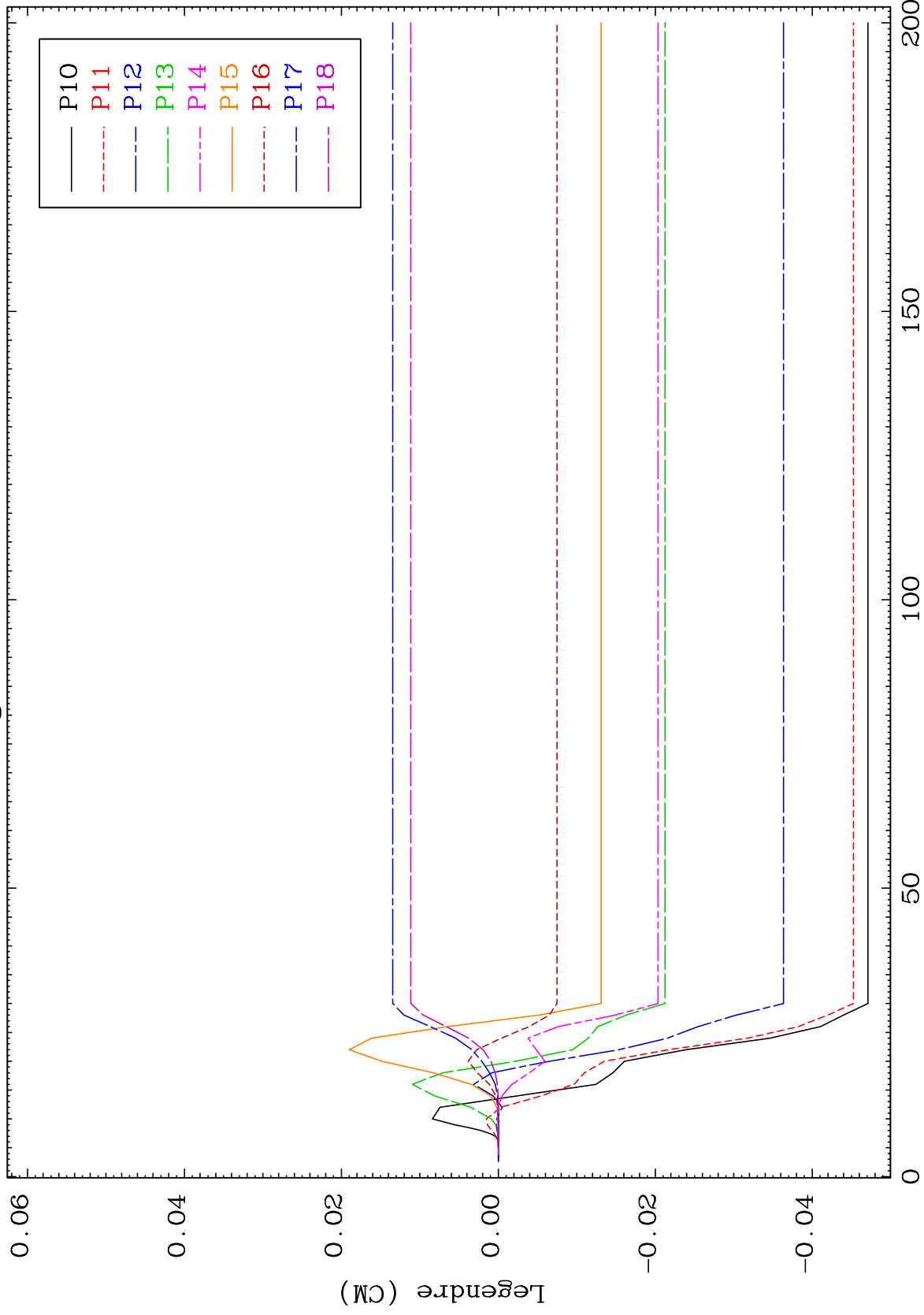
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



43

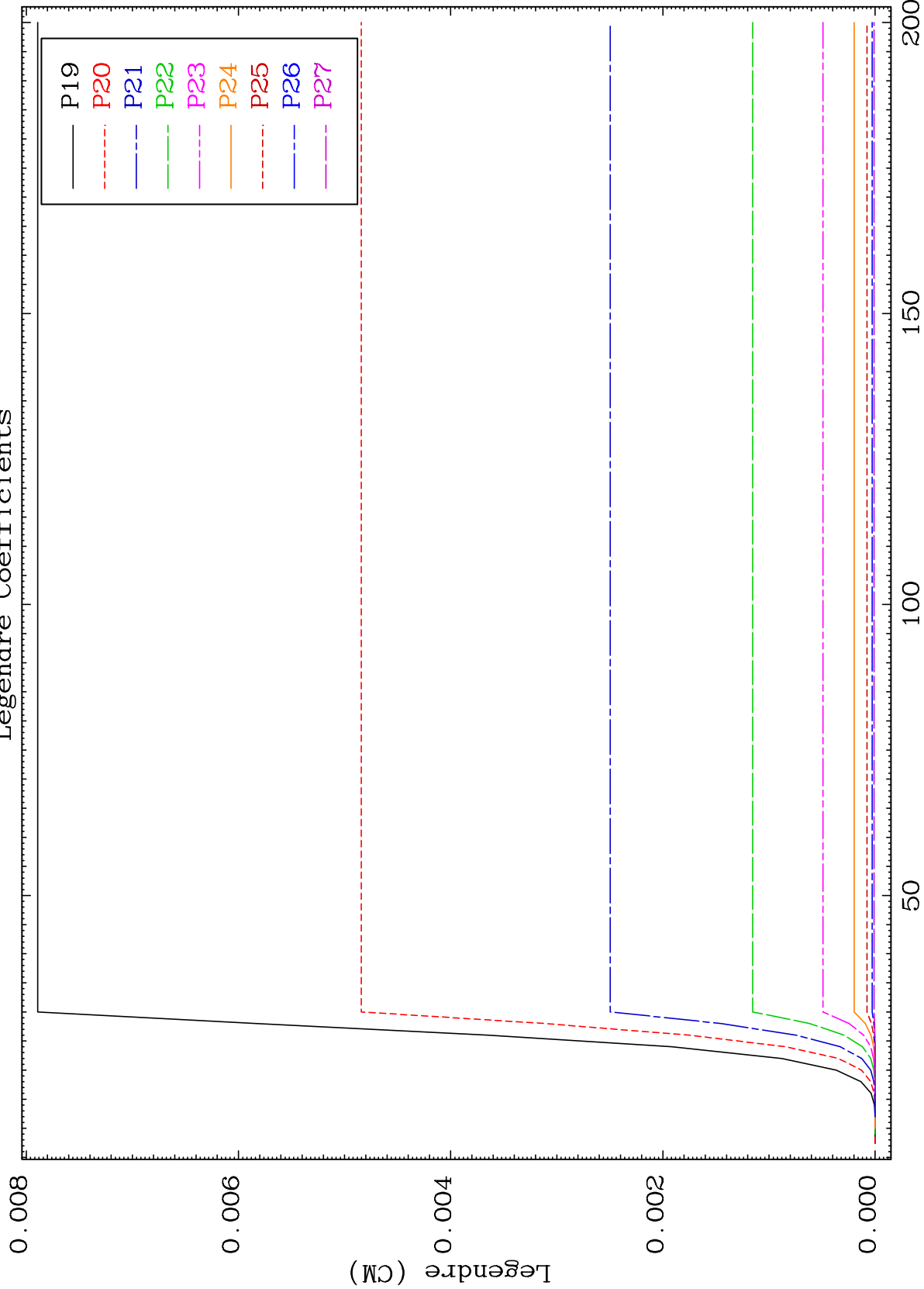
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



44

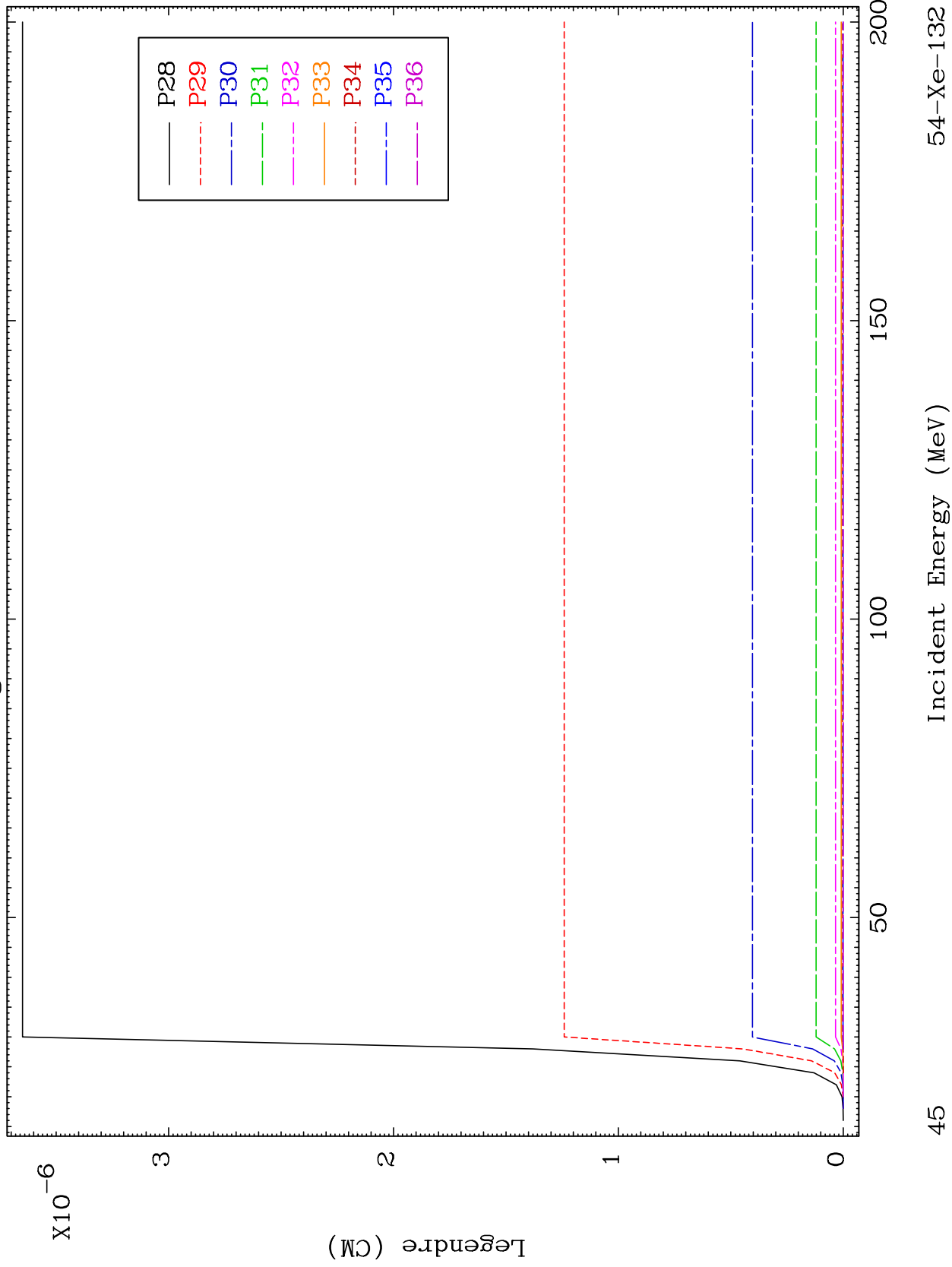
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

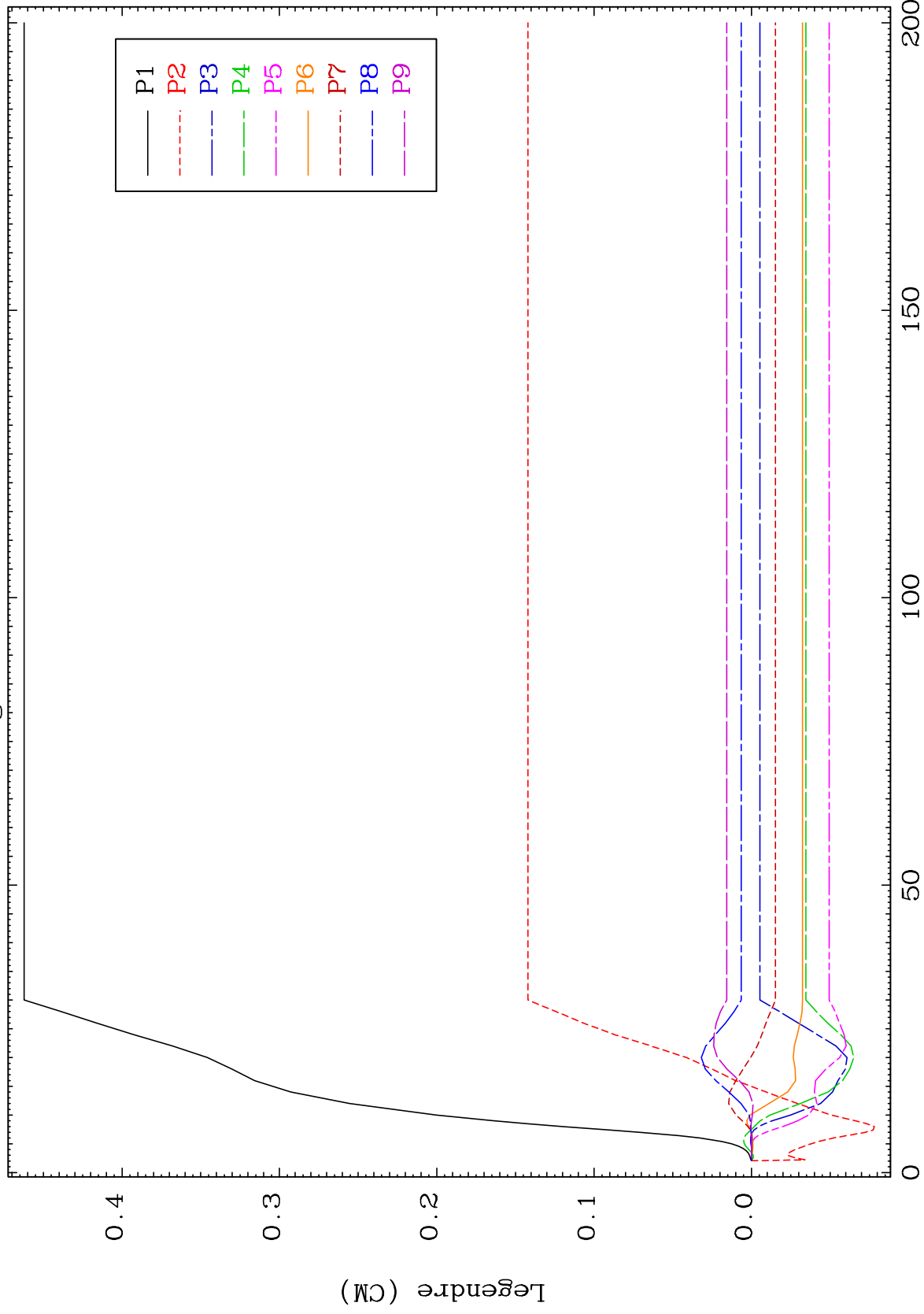
54-Xe-132



MAT 5449

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

54-Xe-132



46

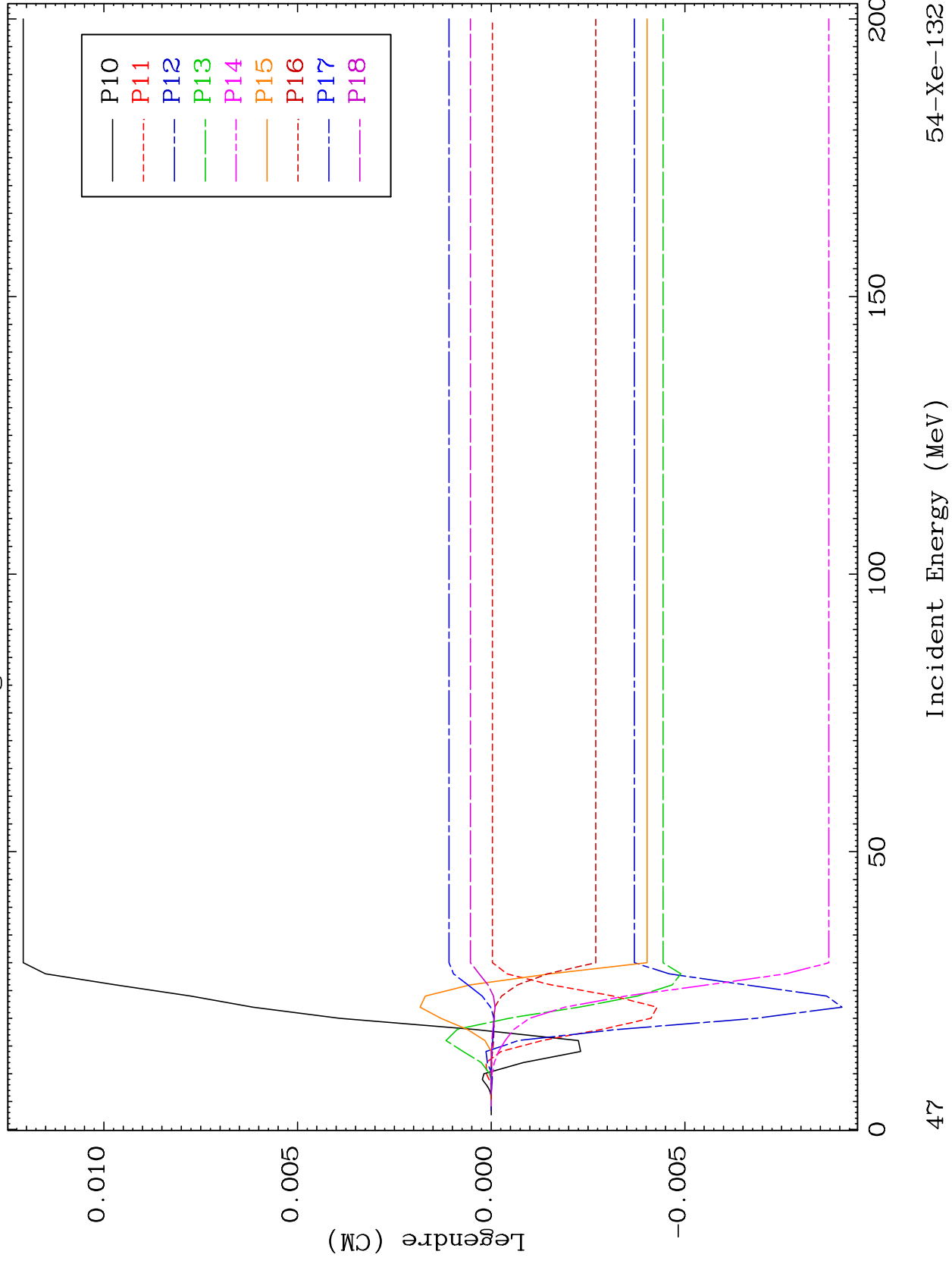
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132

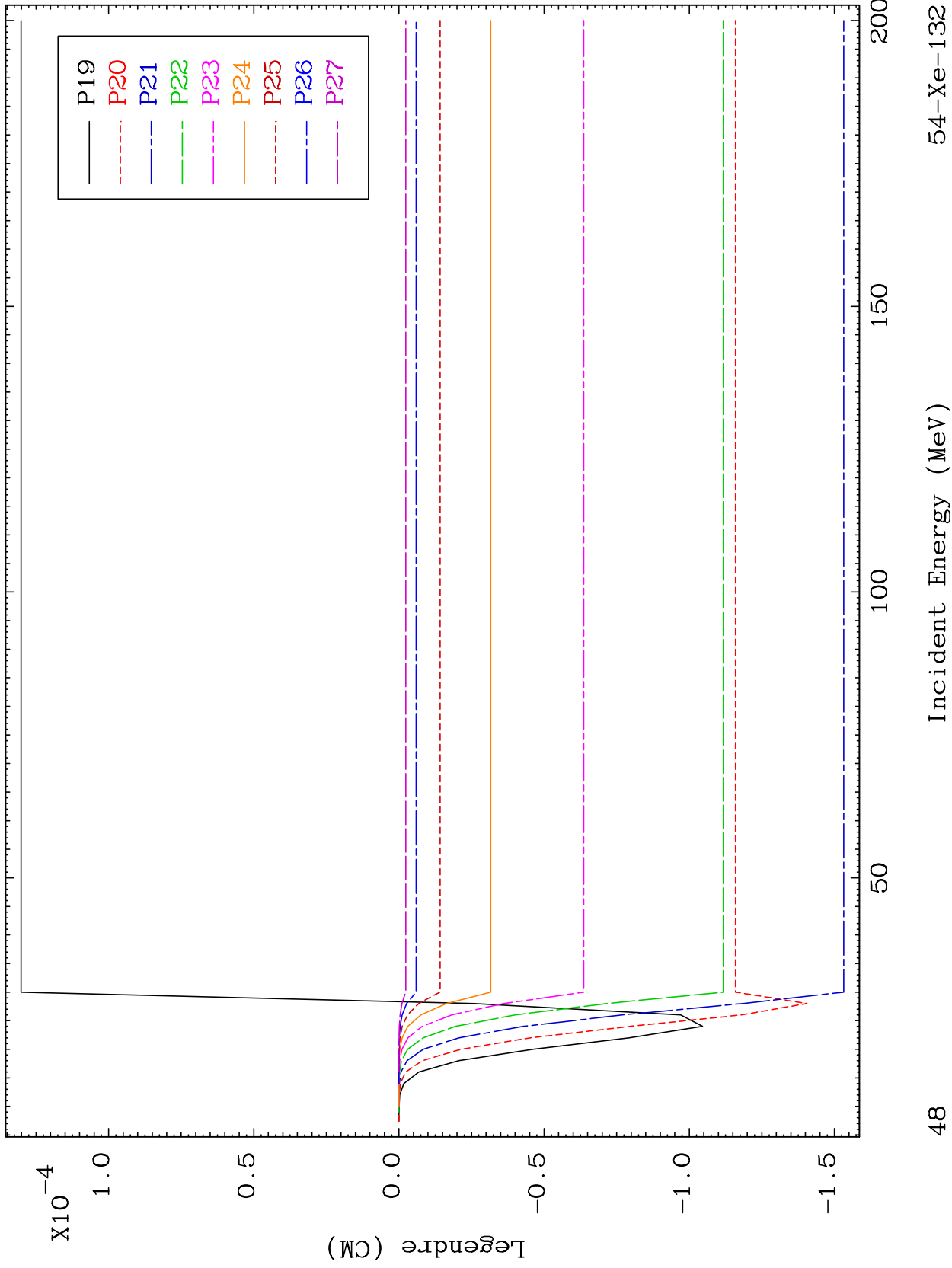




MAT 5449

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

54-Xe-132



48

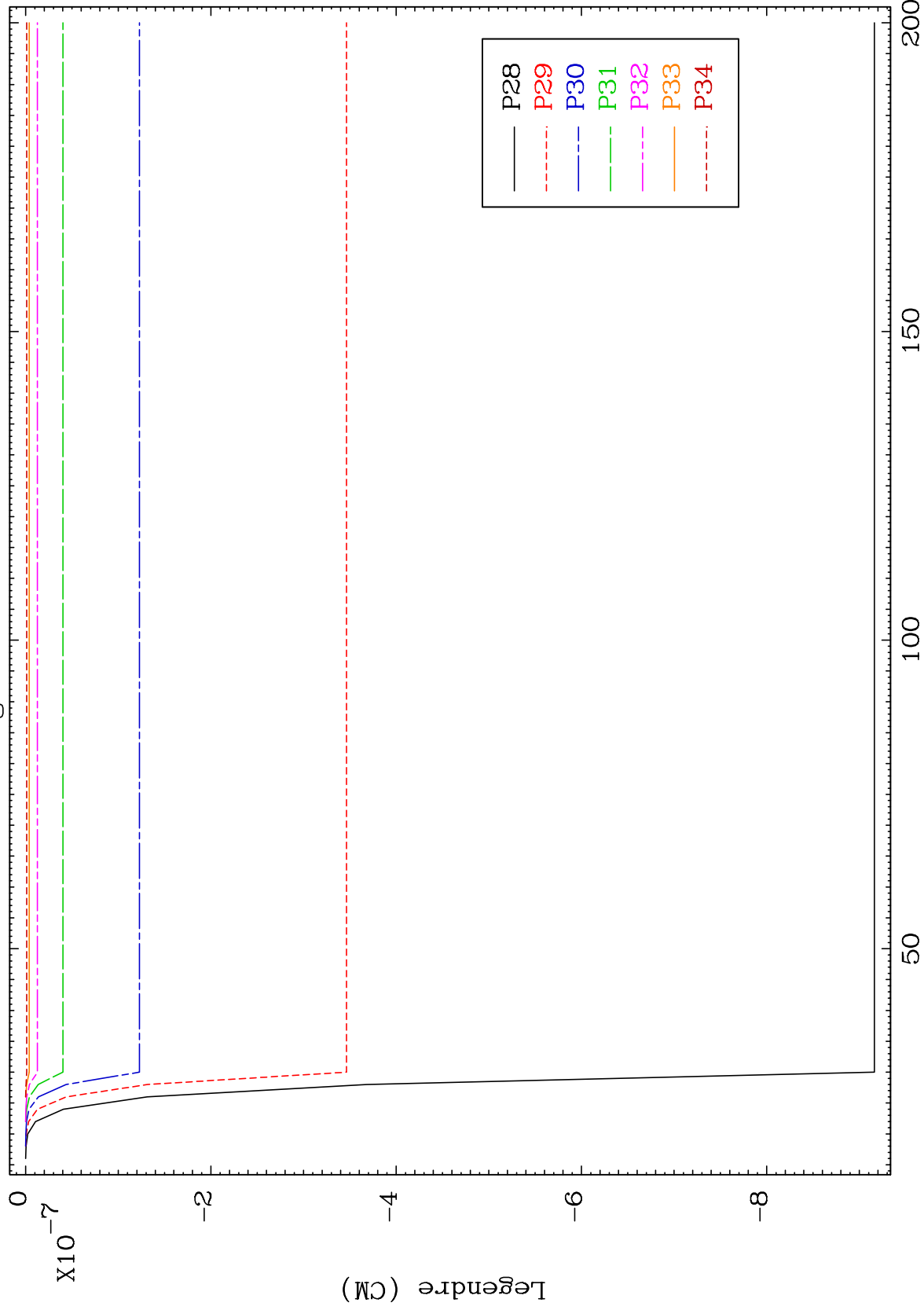
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



49

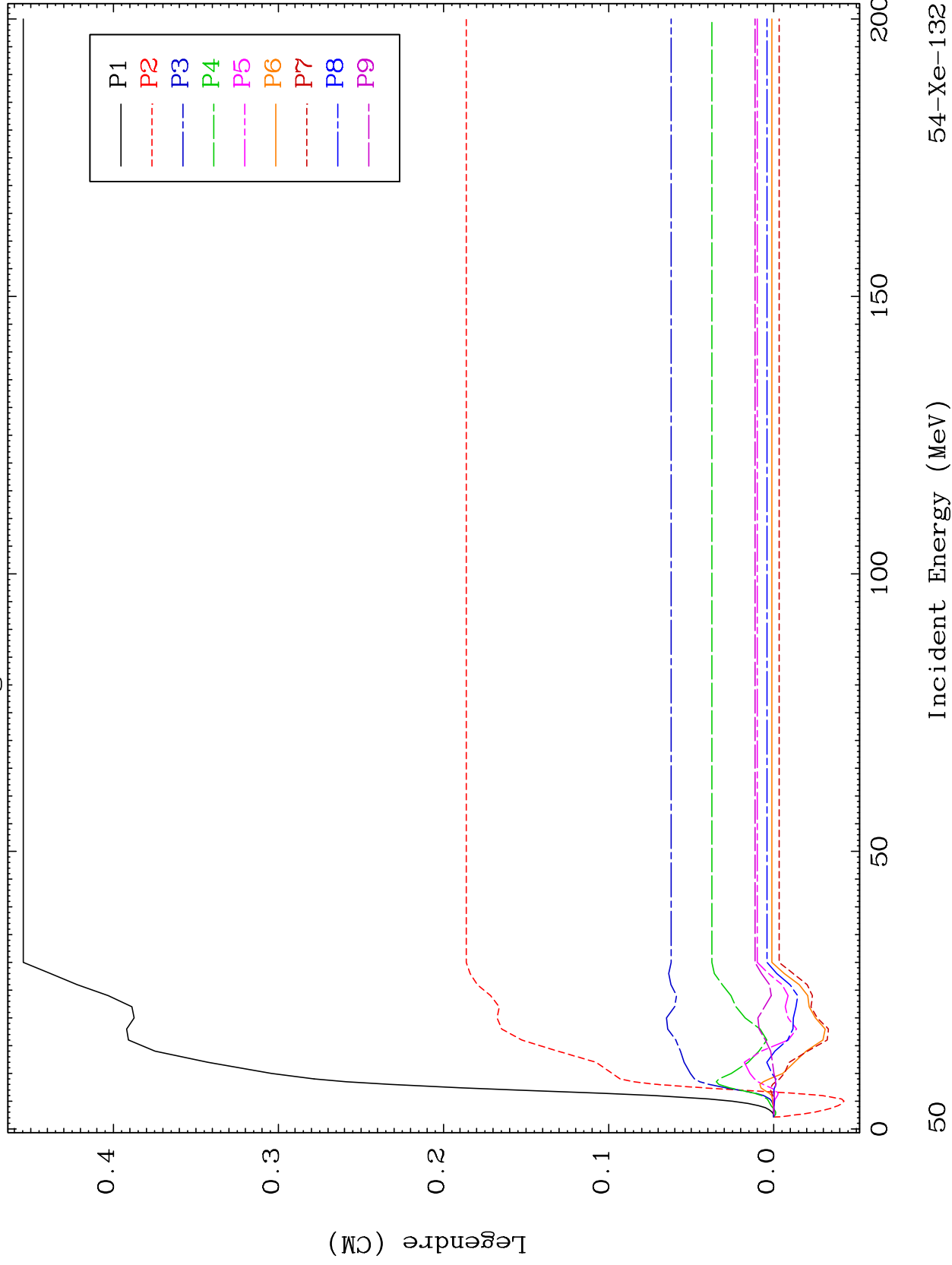
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



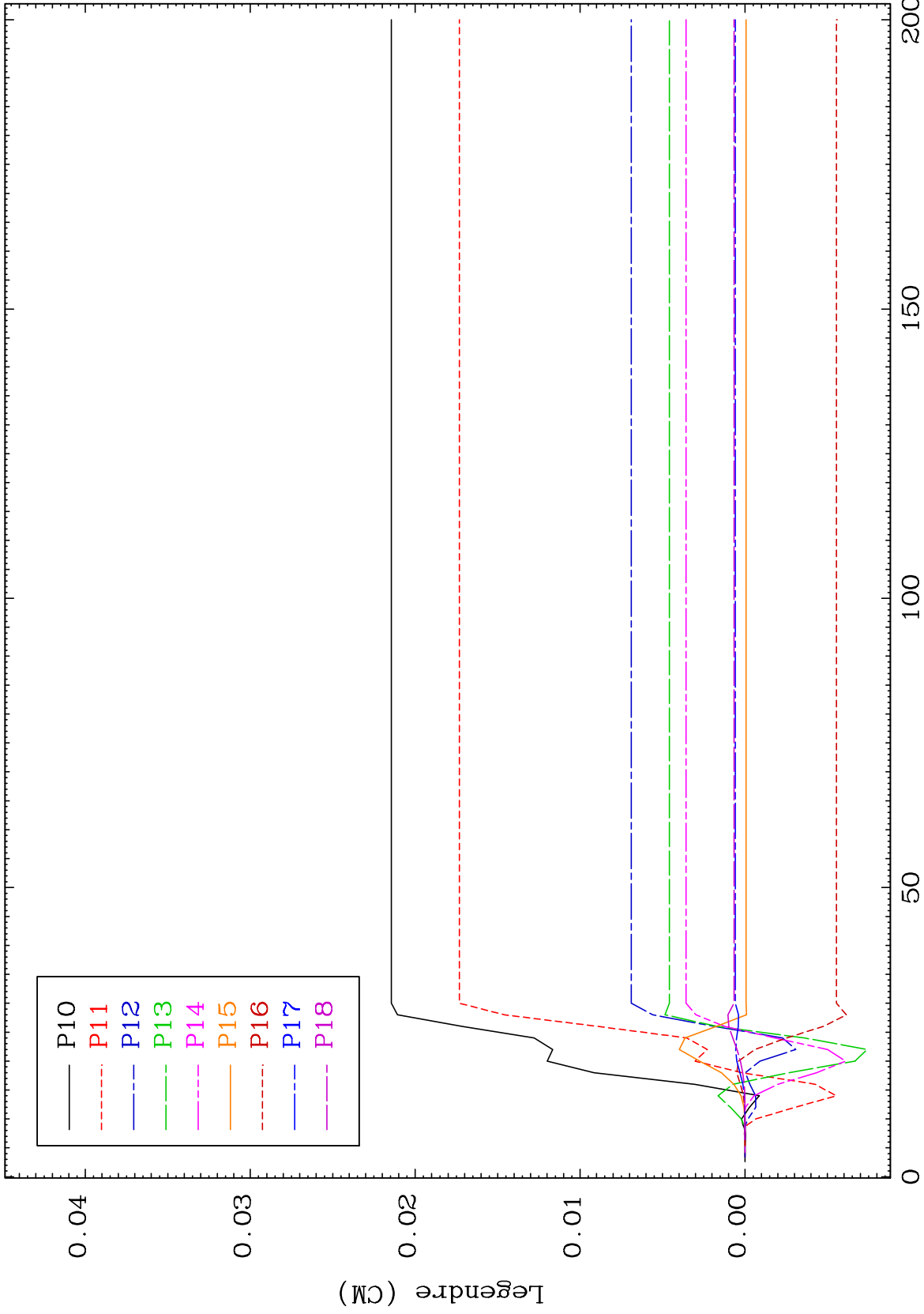
54-Xe-132

Incident Energy (MeV)

MAT 5449

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

54-Xe-132



51

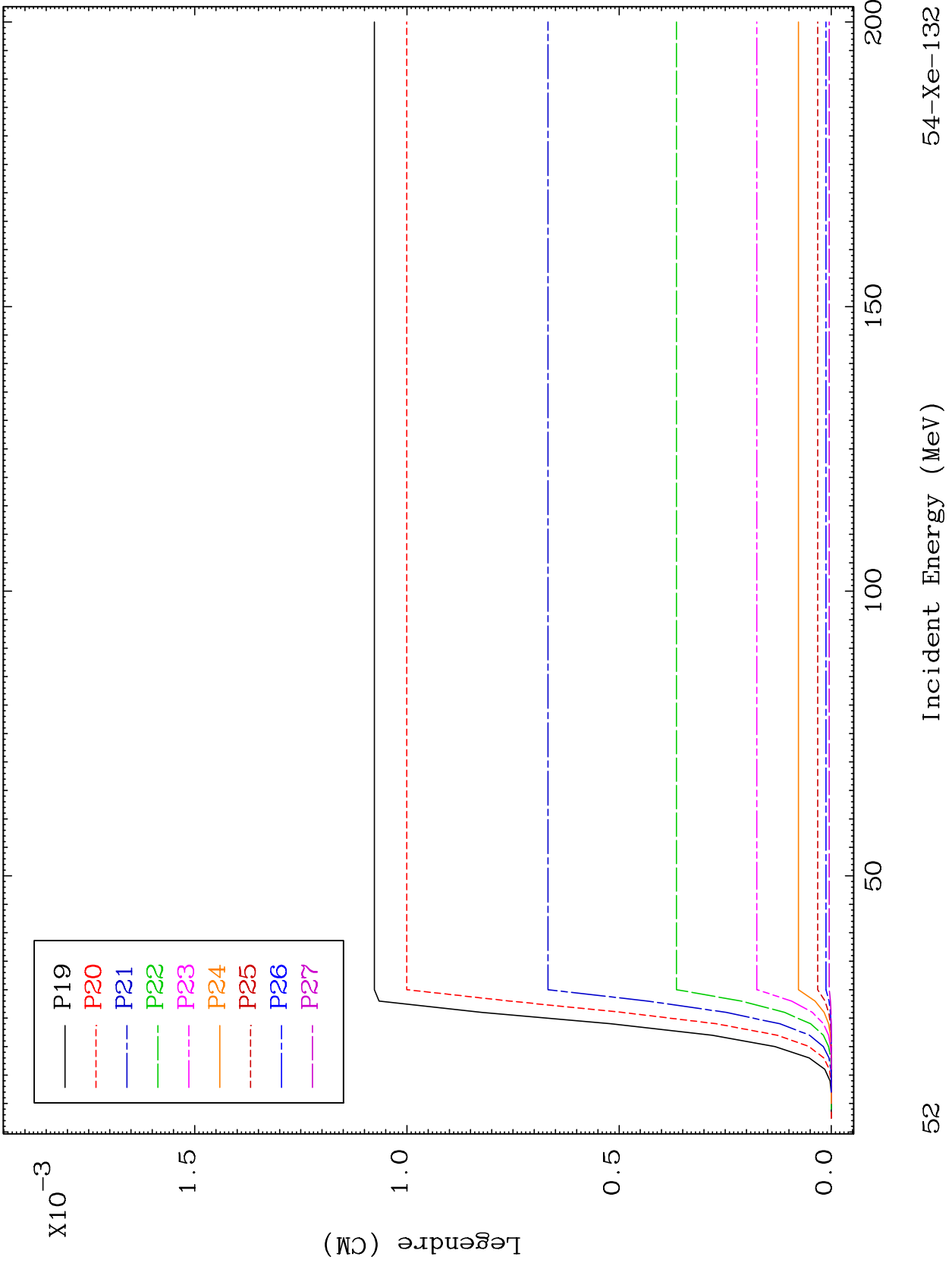
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



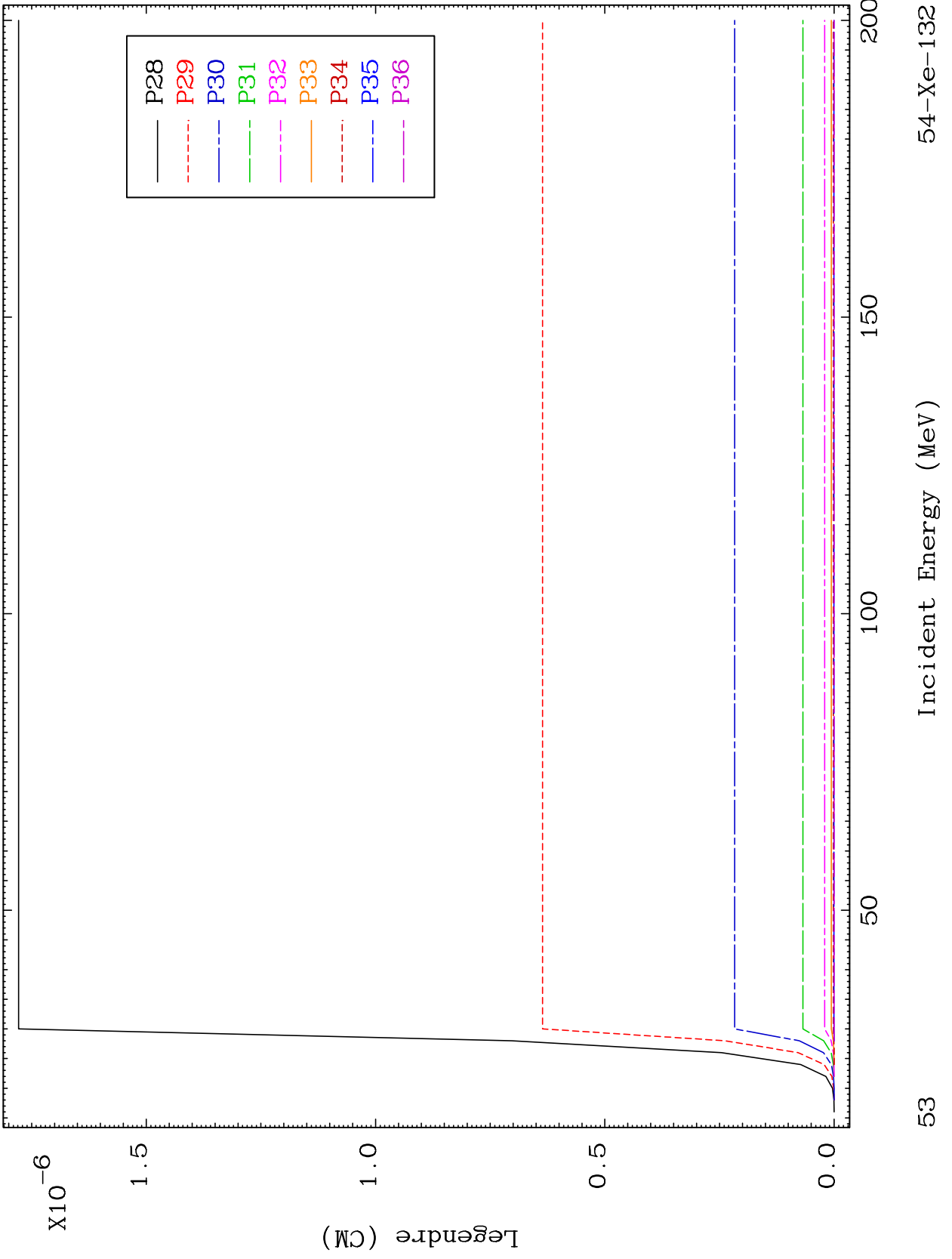
52

54-Xe-132

MAT 5449

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

54-Xe-132



53

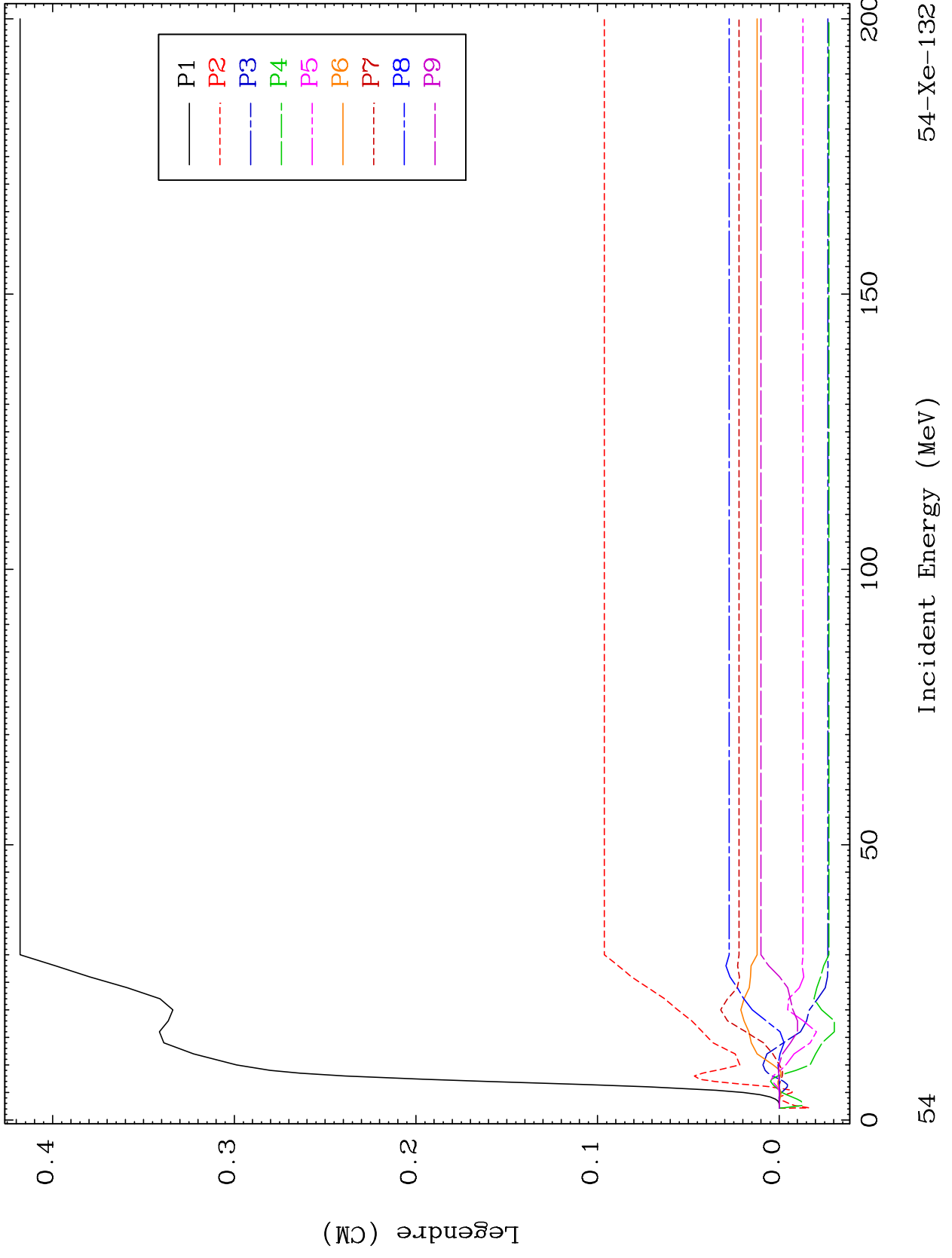
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



54

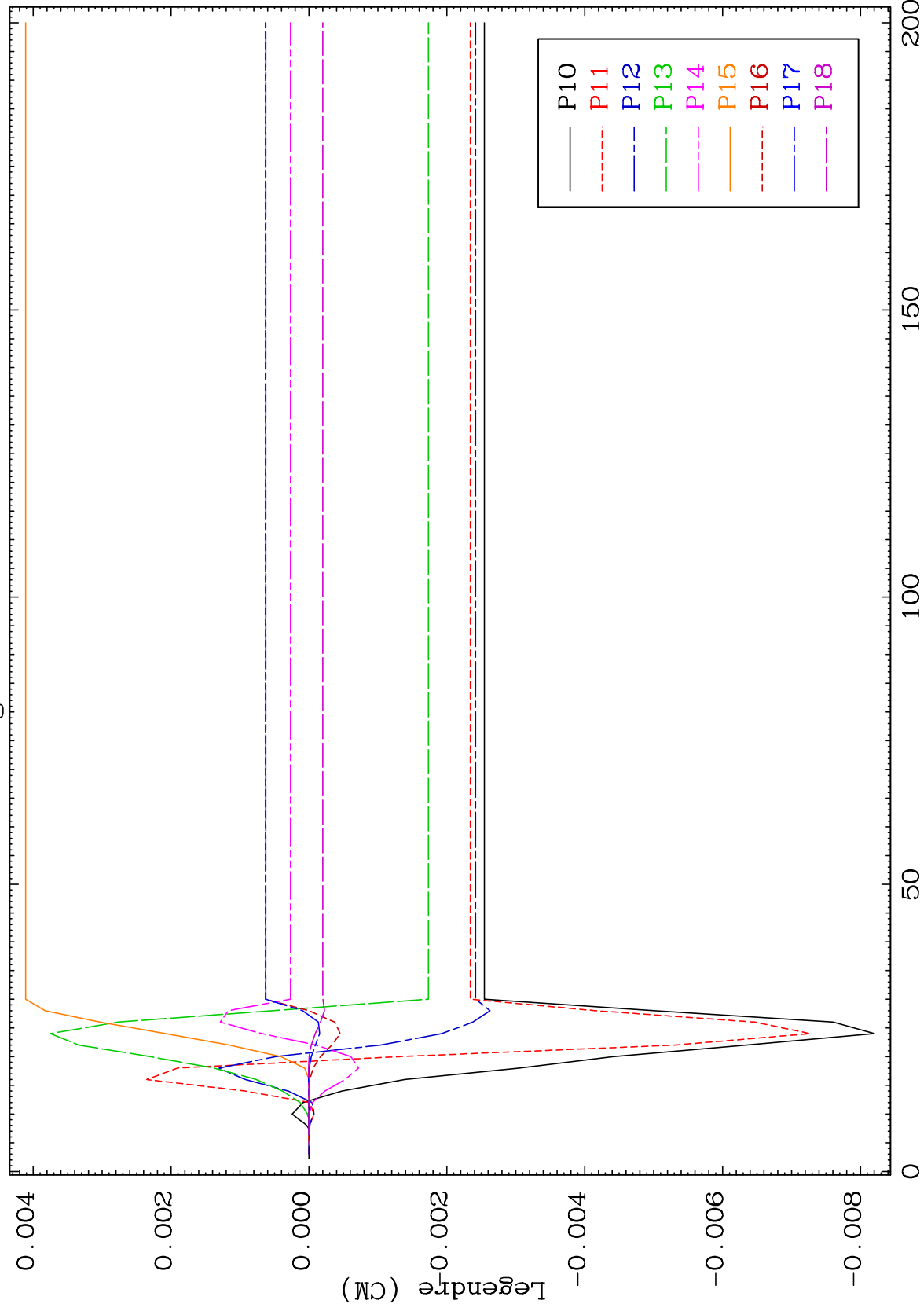
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



55

Incident Energy (MeV)

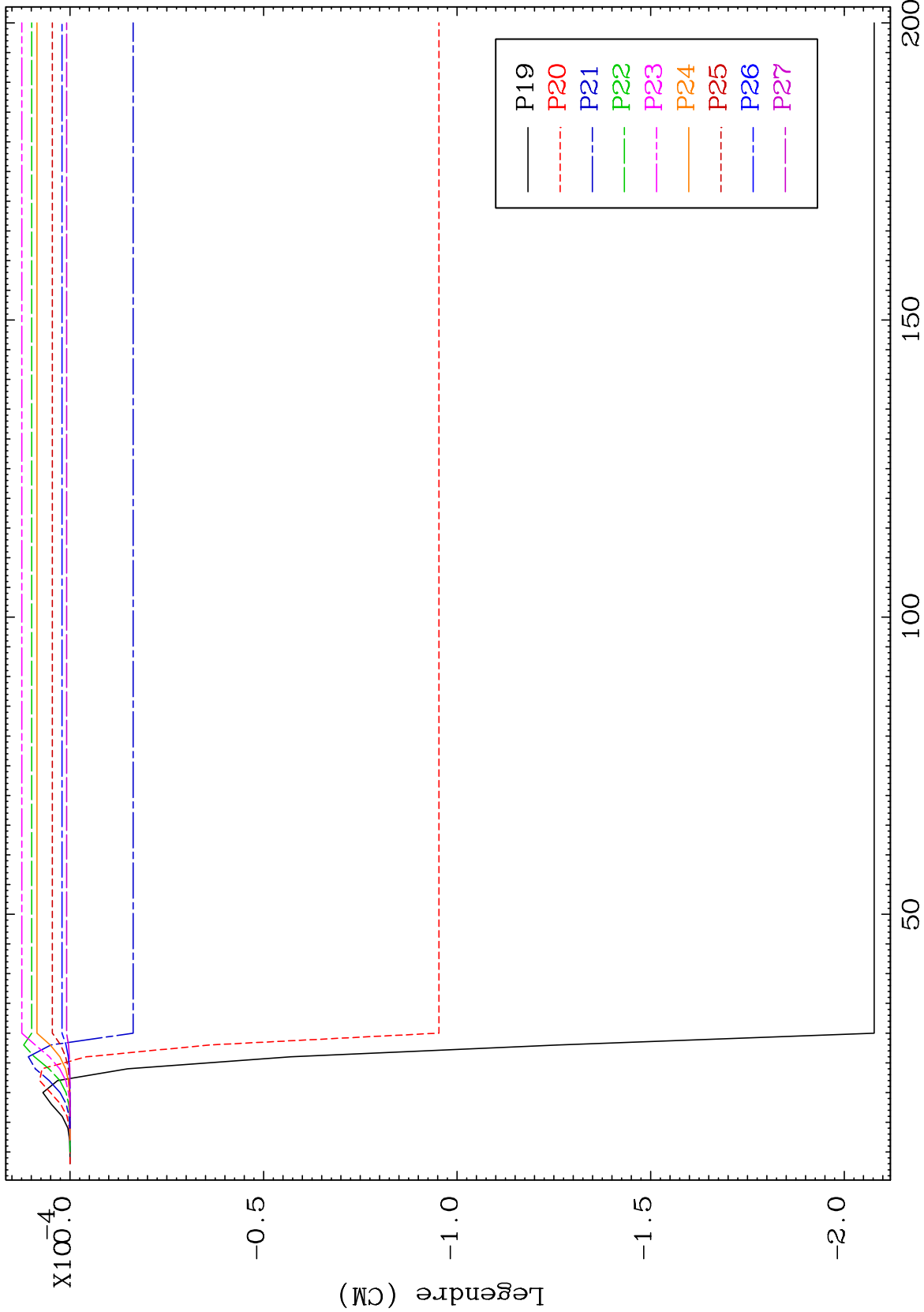
54-Xe-132



MAT 5449

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

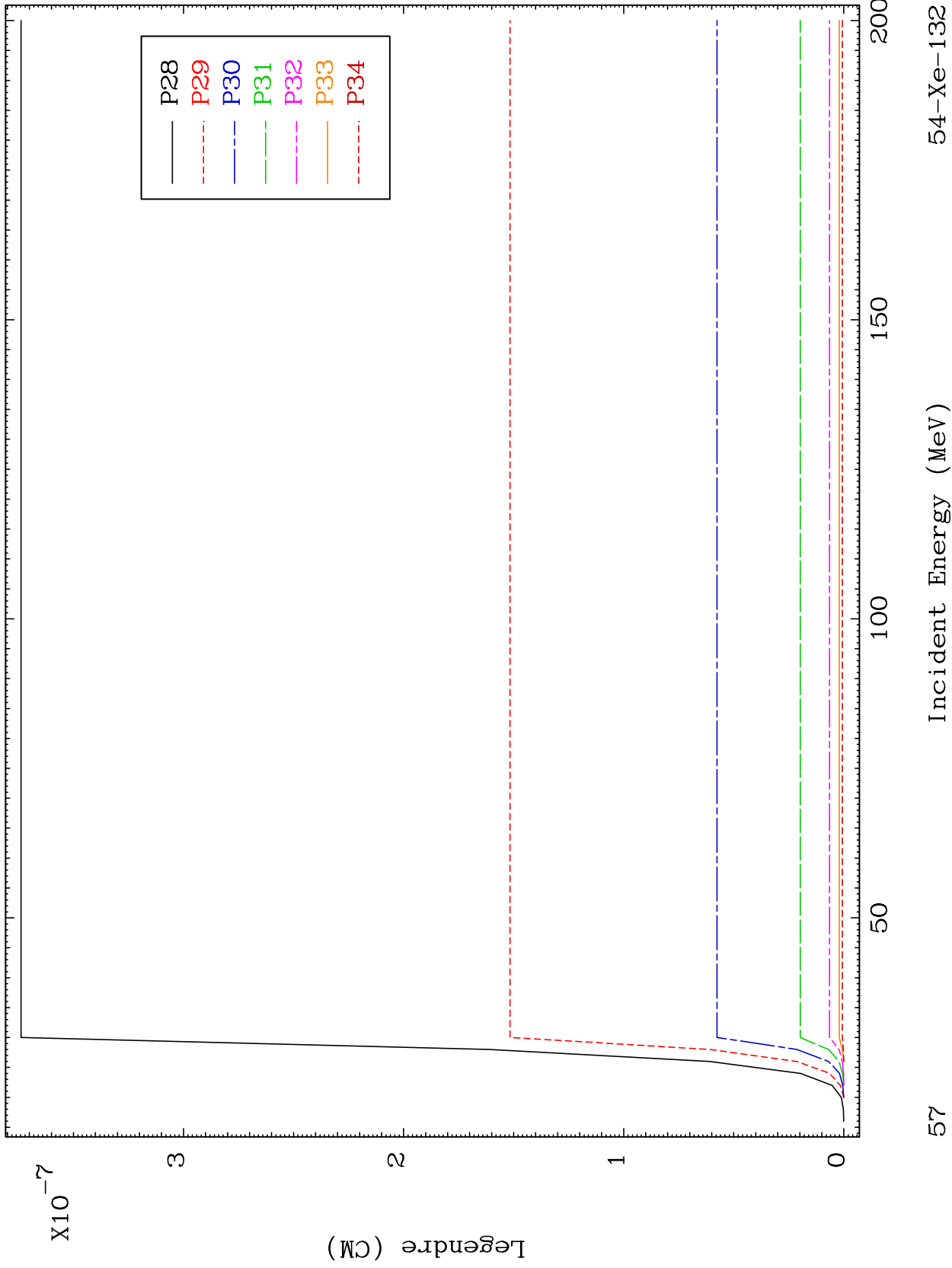
54-Xe-132



MAT 5449

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

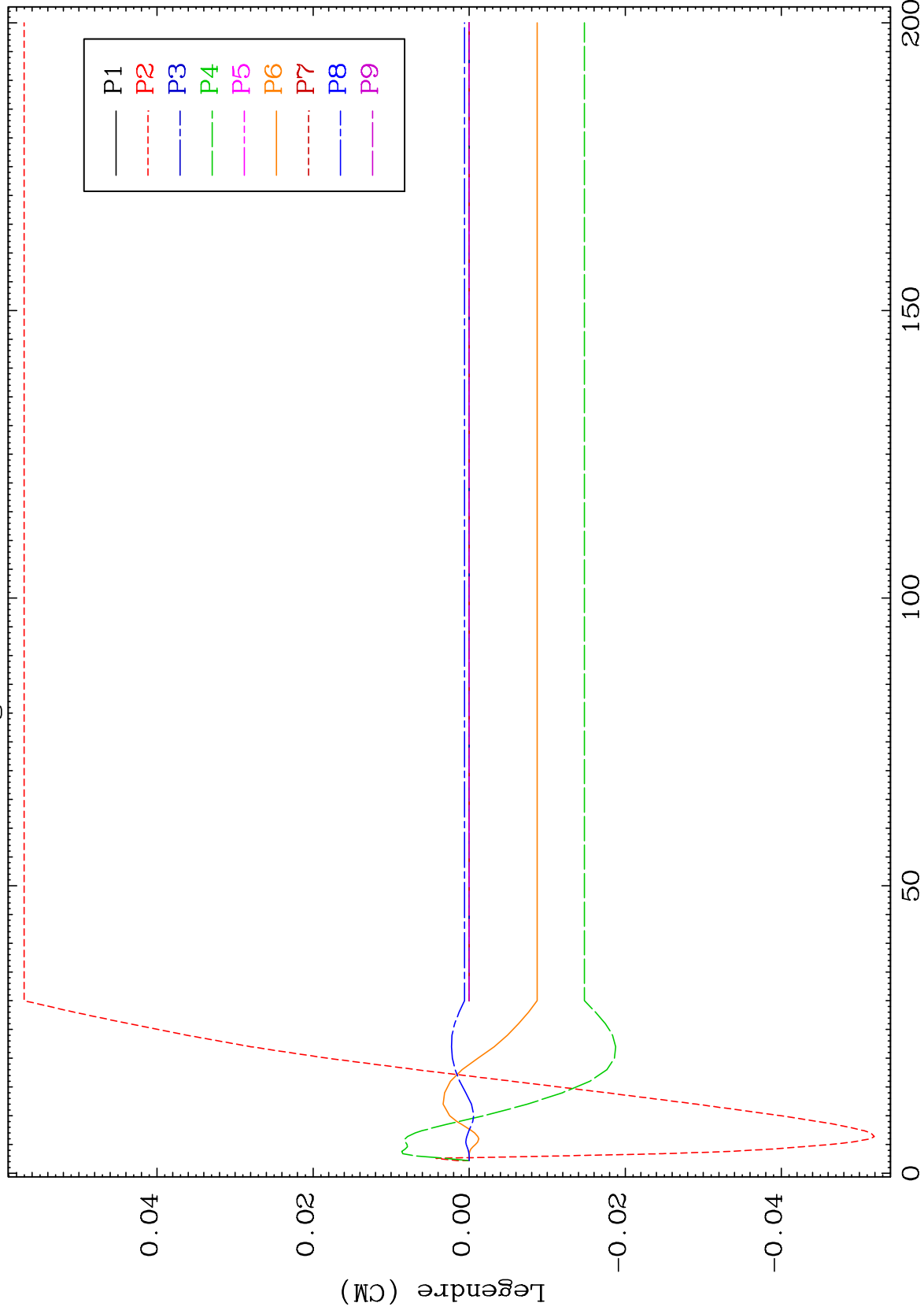
54-Xe-132



MAT 5449

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

54-Xe-132



54-Xe-132

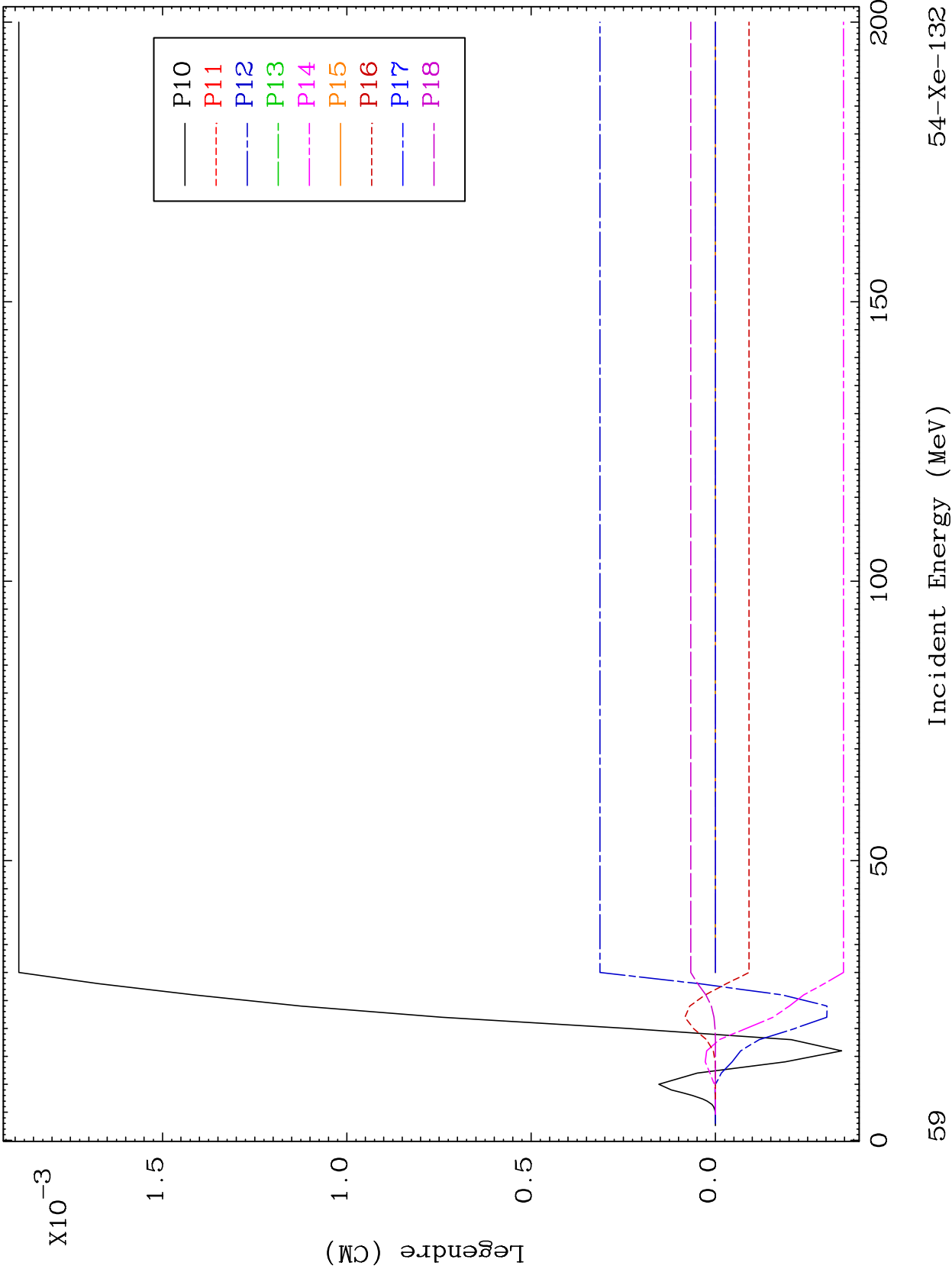
Incident Energy (MeV)

58

MAT 5449

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

54-Xe-132



59

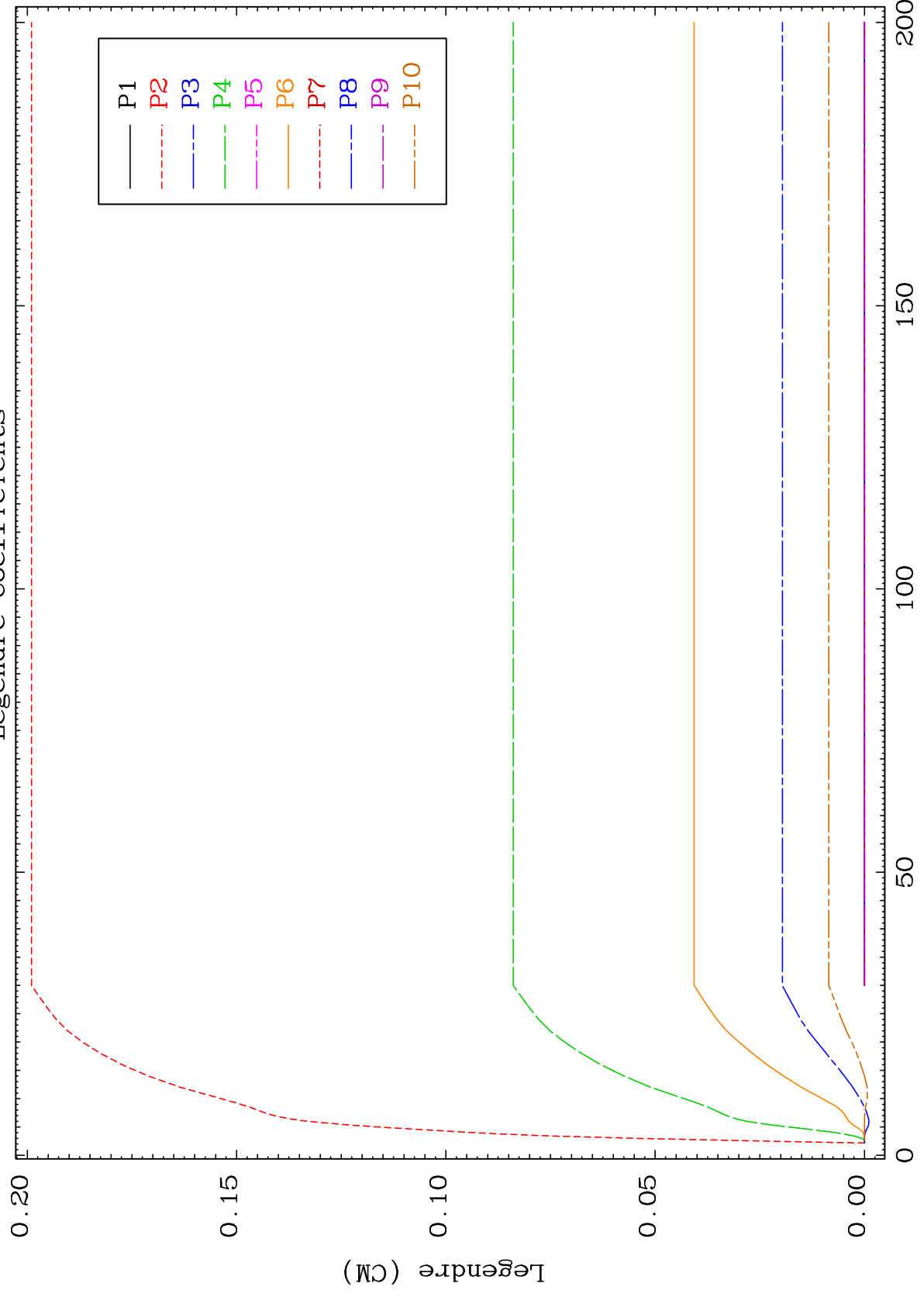
54-Xe-132



MAT 5449

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

54-Xe-132



61

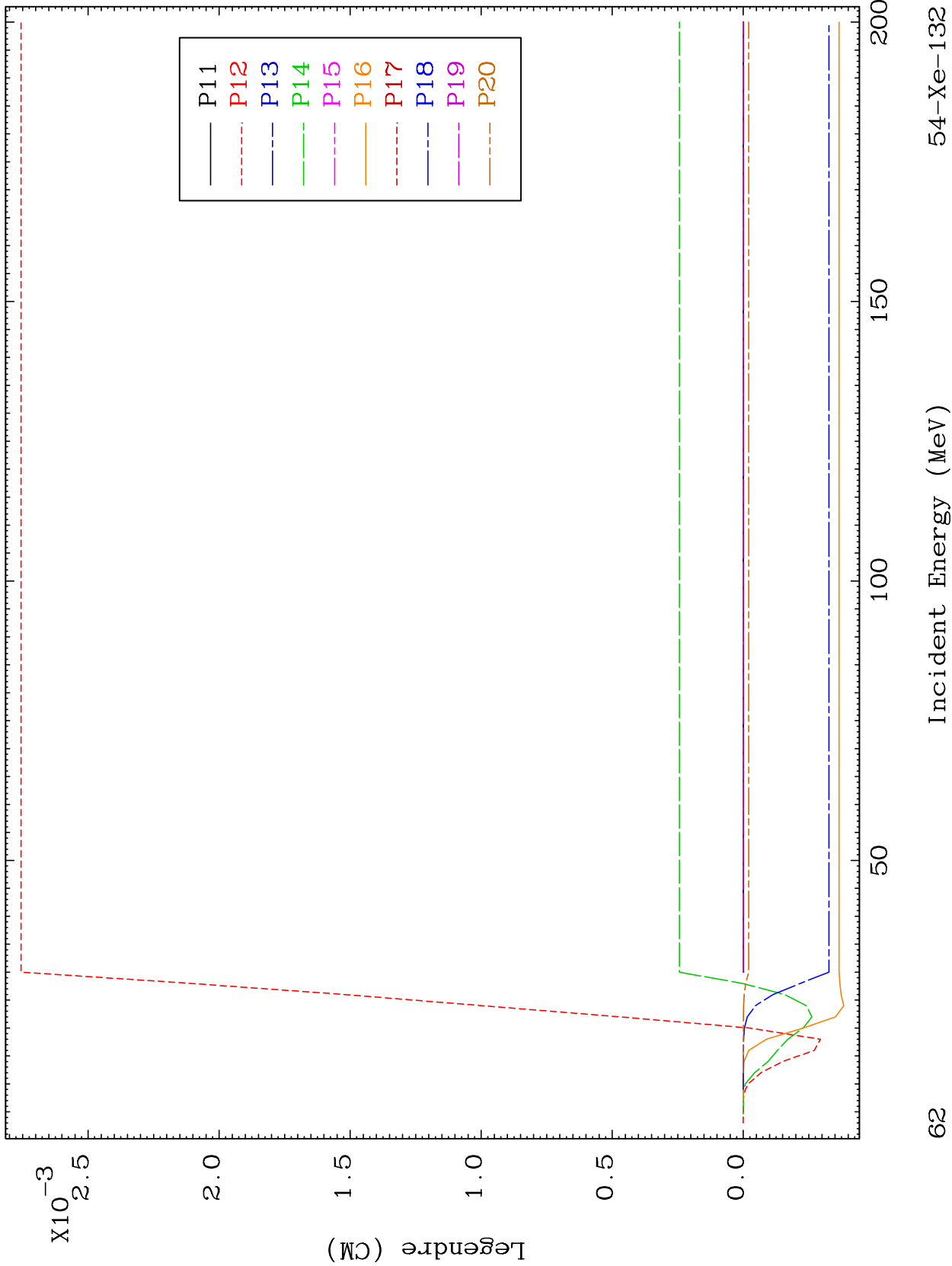
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



62

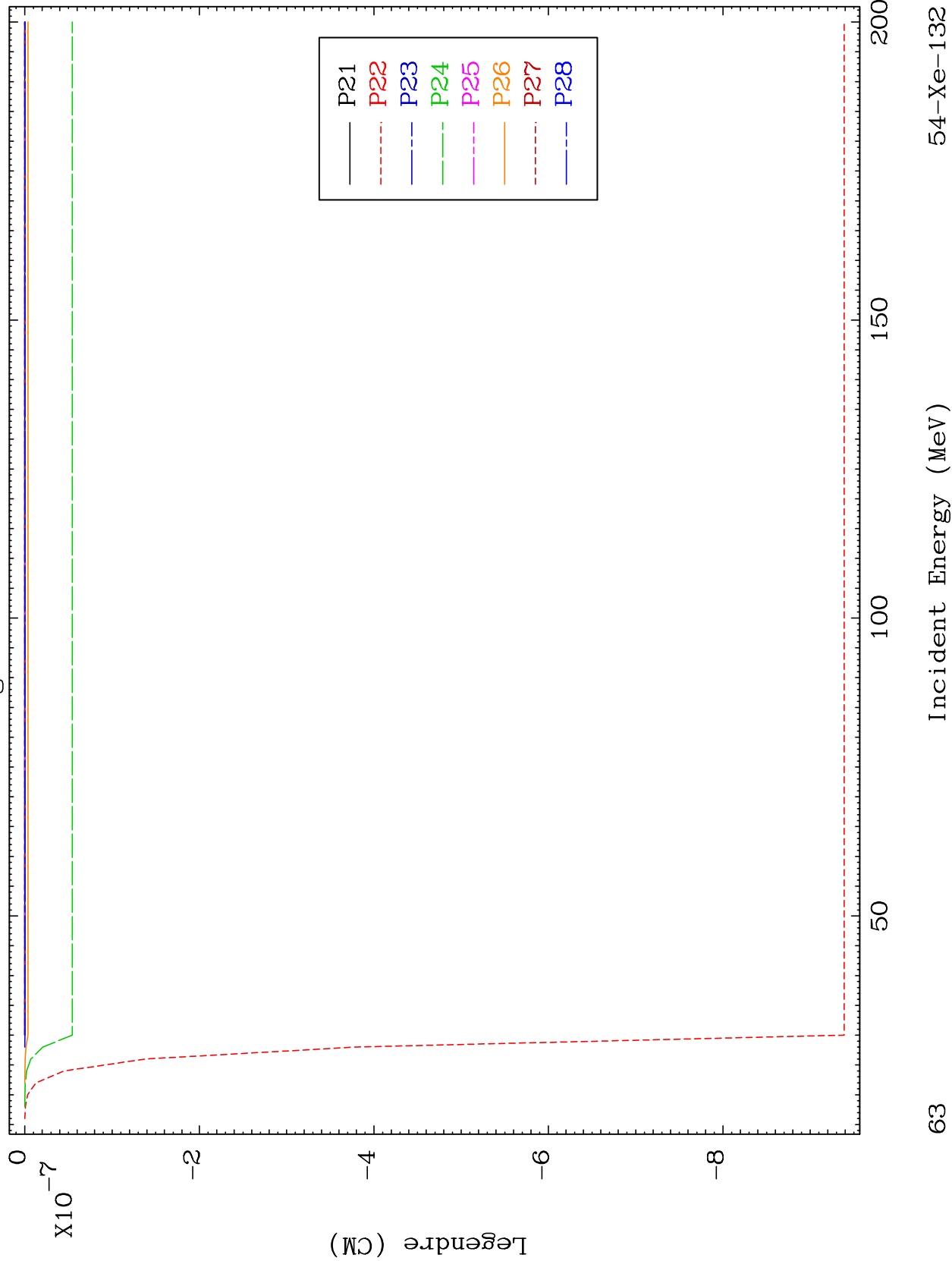
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



63

Incident Energy (MeV)

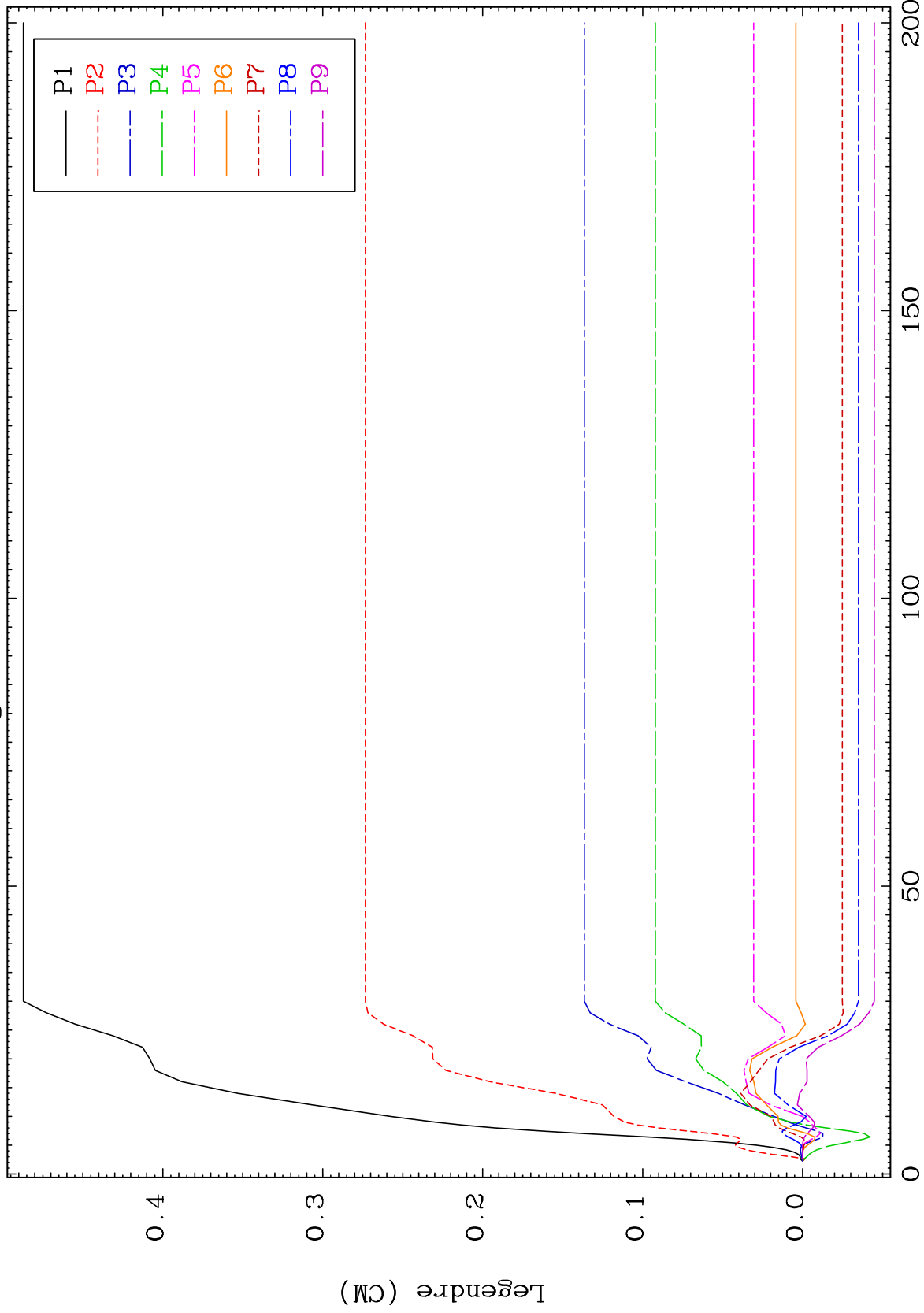
54-Xe-132



MAT 5449

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

54-Xe-132



54-Xe-132

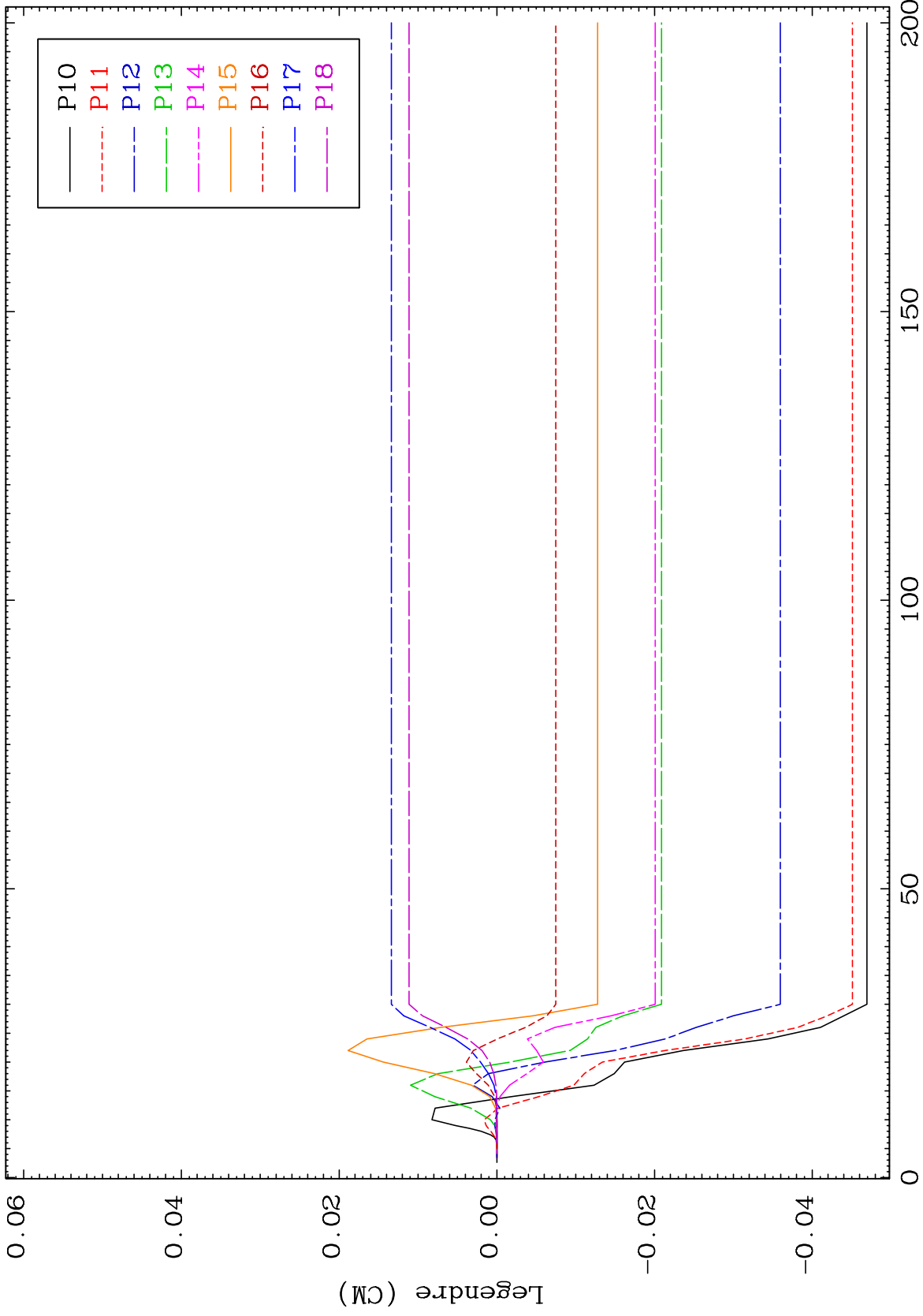
Incident Energy (MeV)

64

MAT 5449

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

54-Xe-132



65

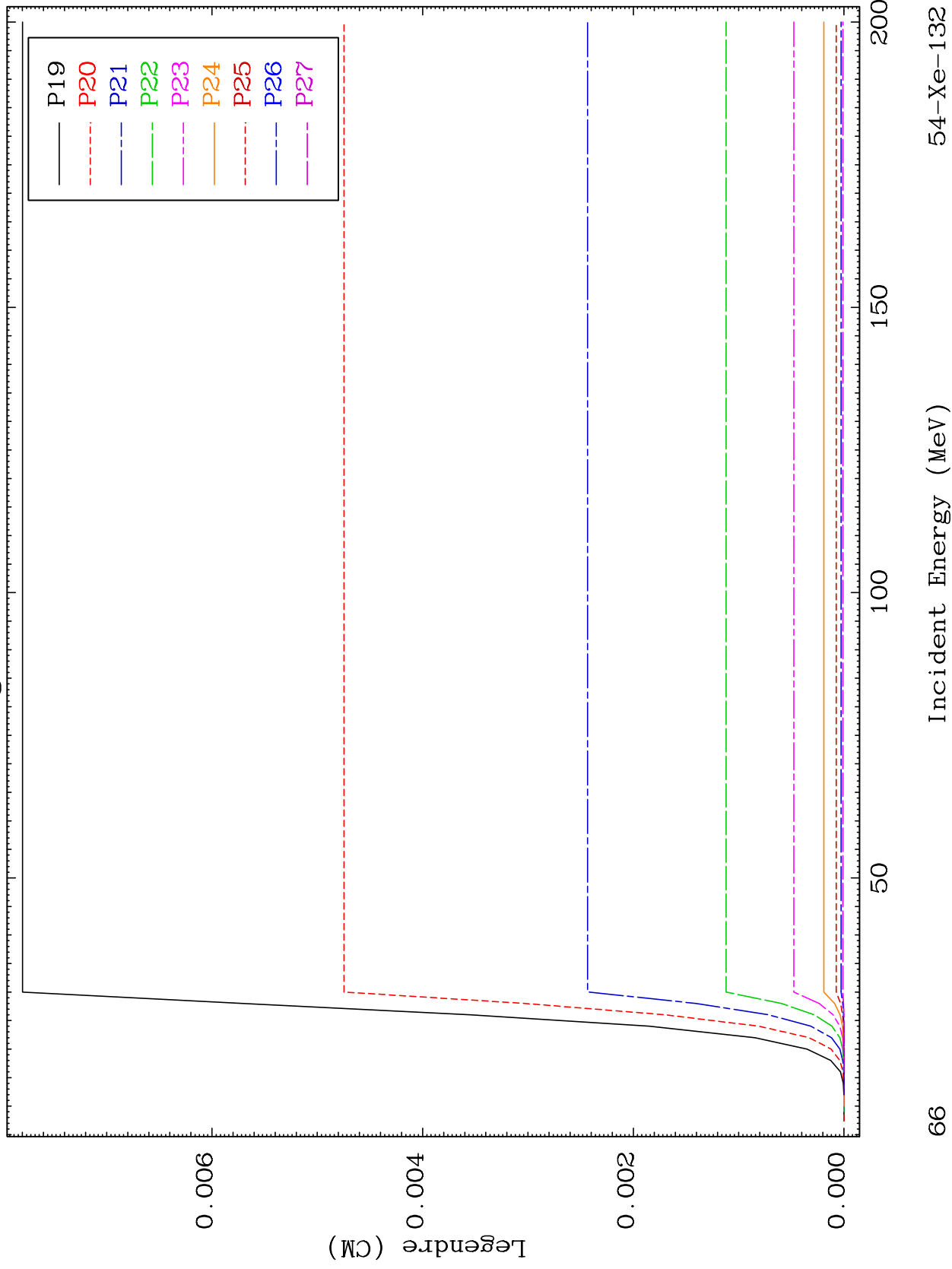
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



66

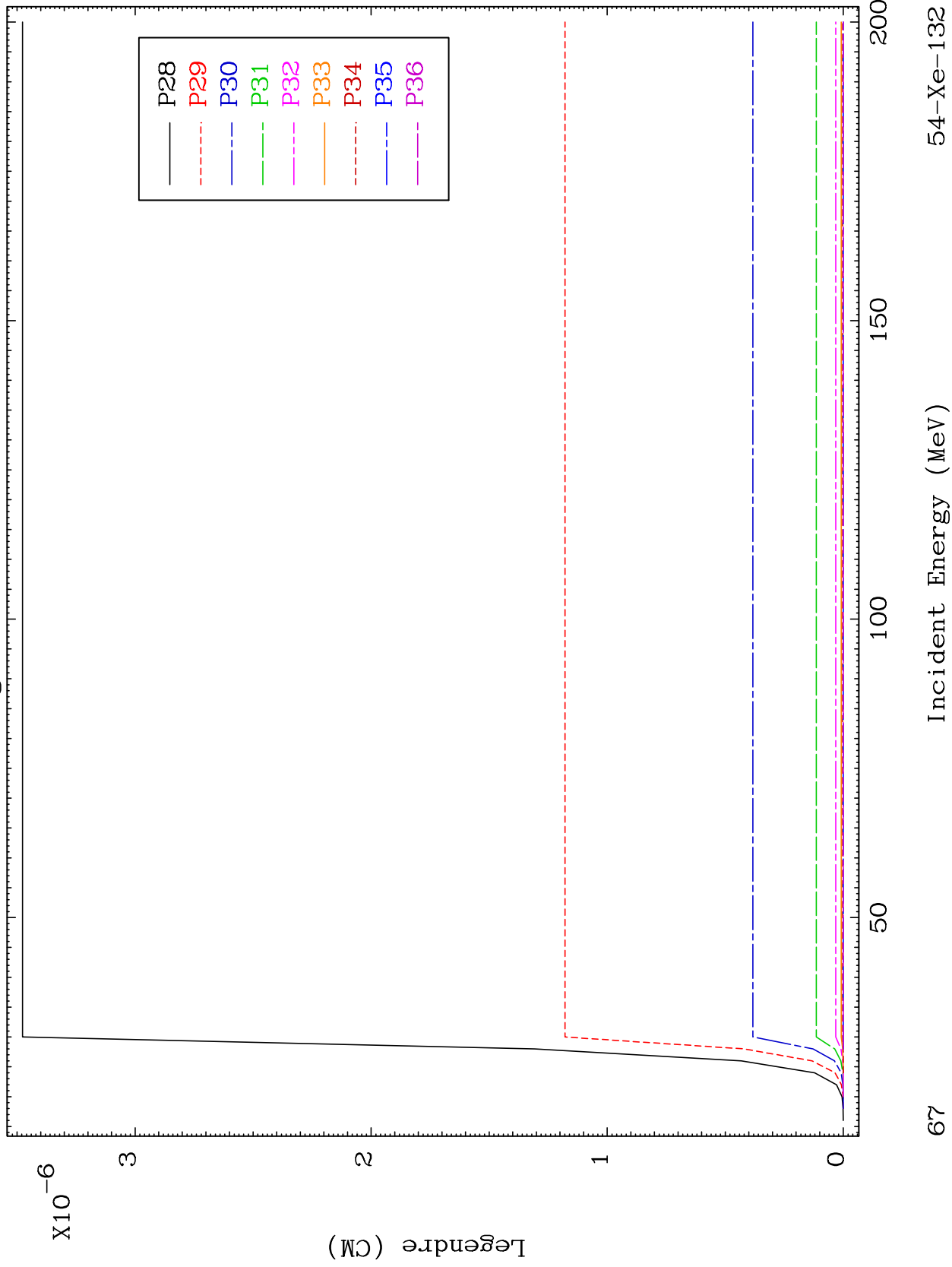
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



67

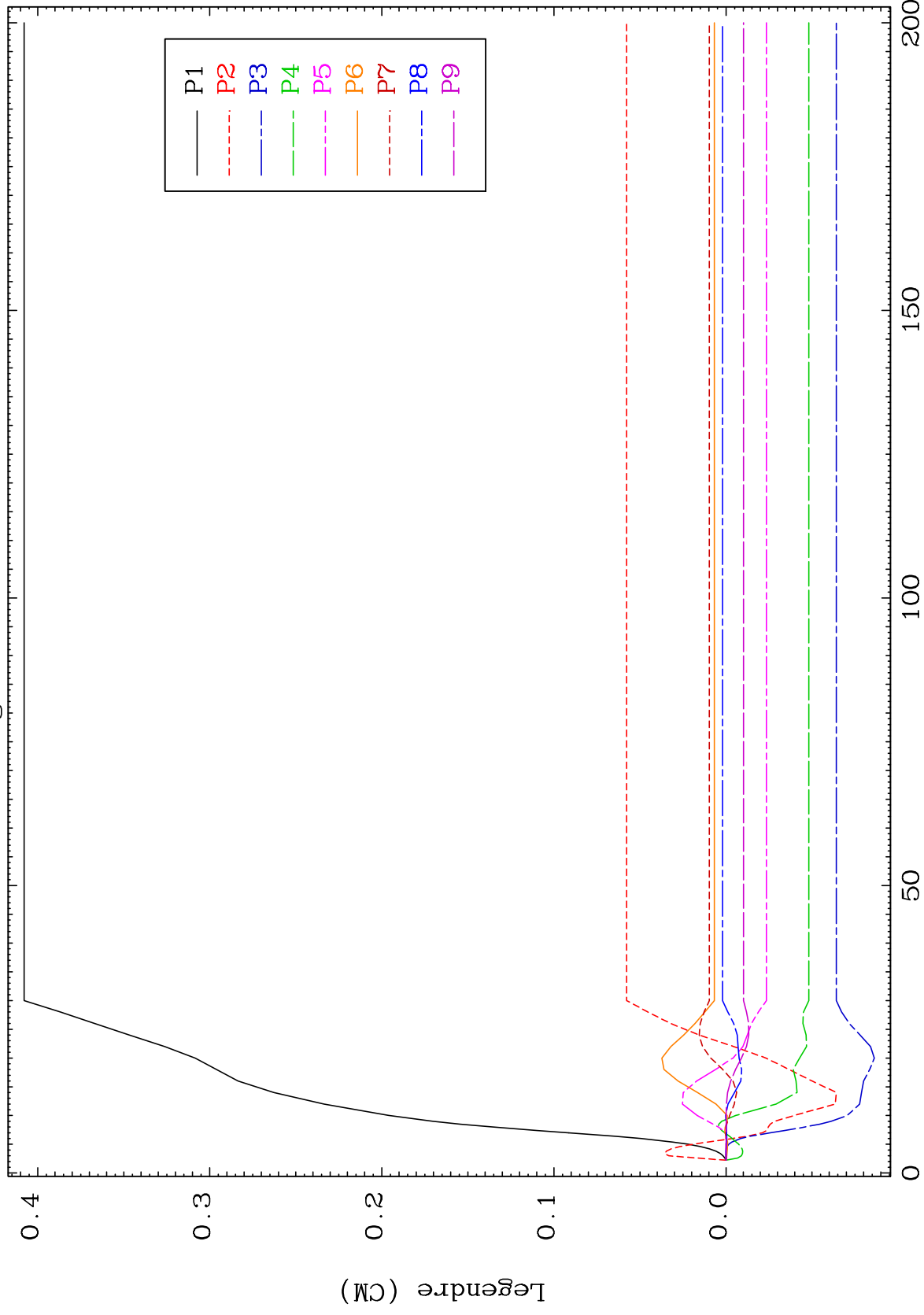
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



68

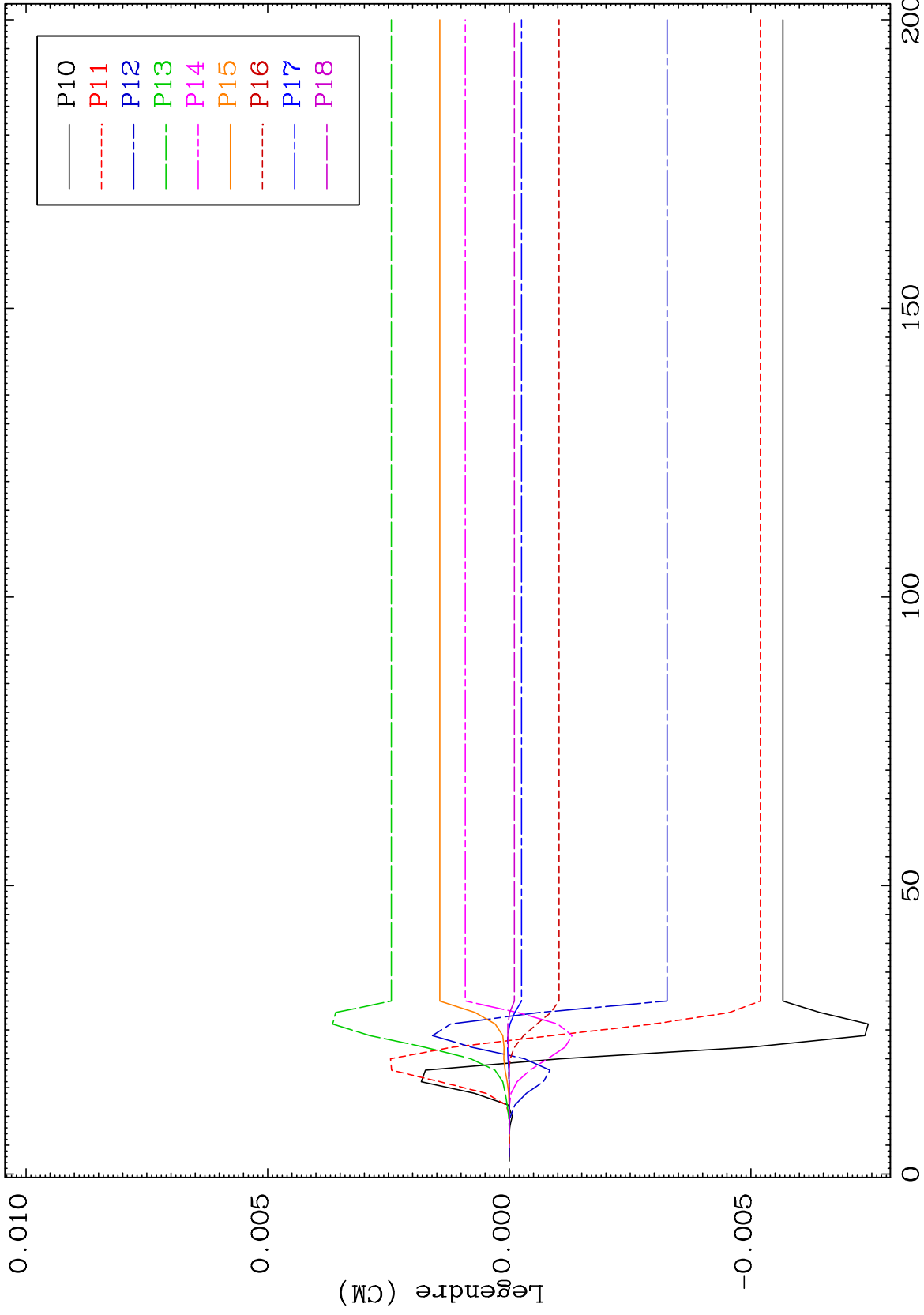
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



69

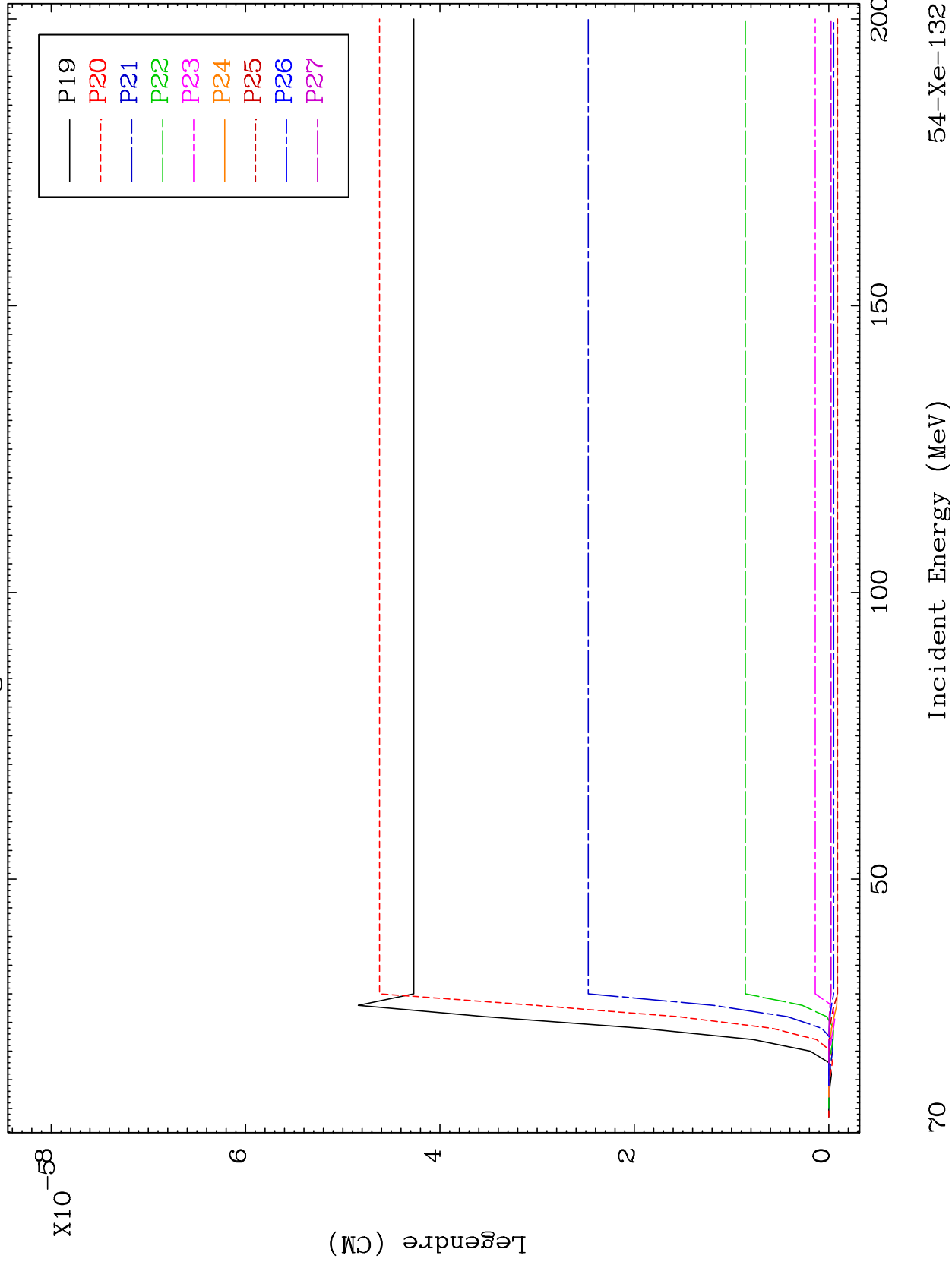
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



70

Incident Energy (MeV)

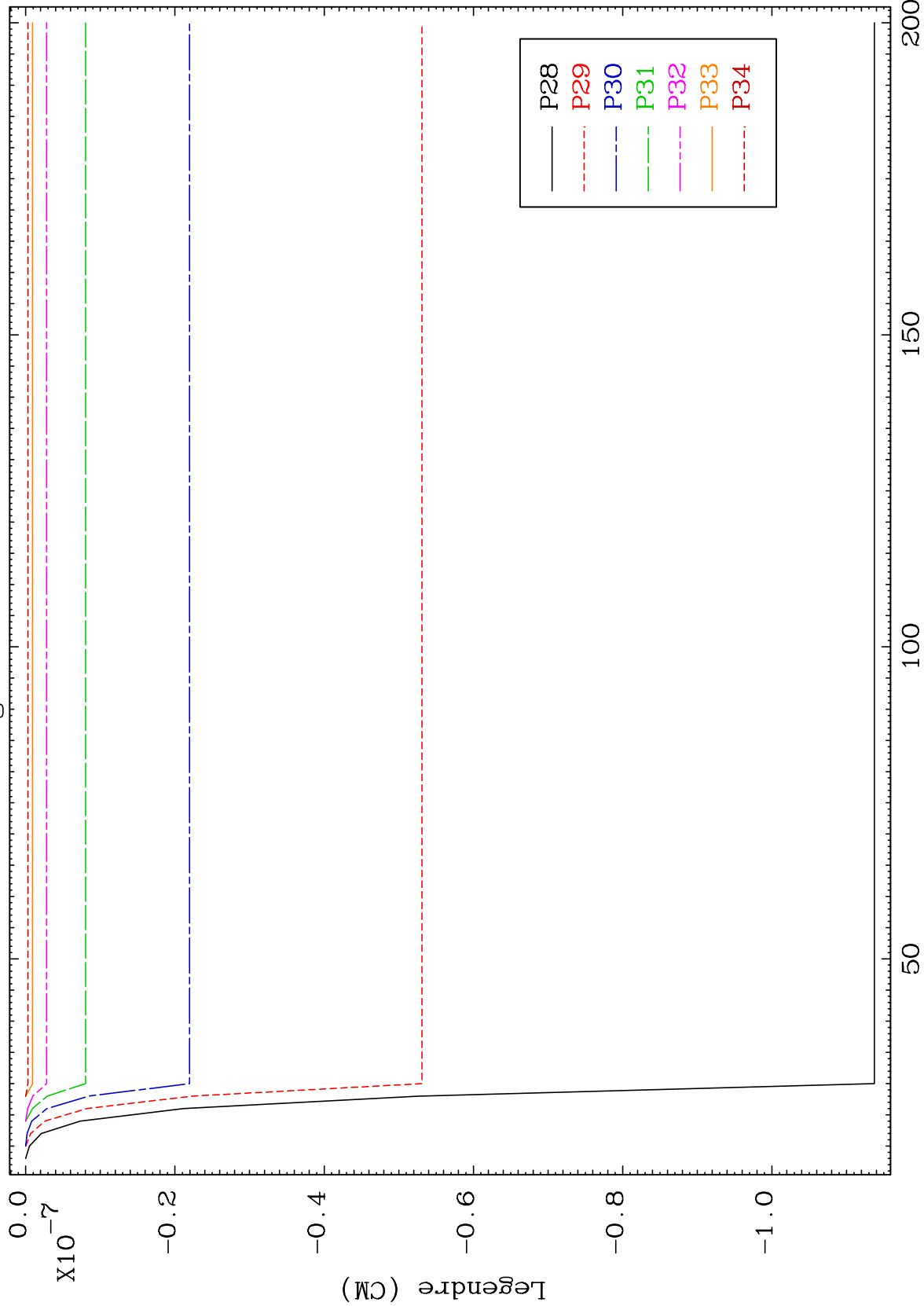
54-Xe-132

MAT 5449

MT= 64 (n,n') Level

54-Xe-132

Legendre Coefficients

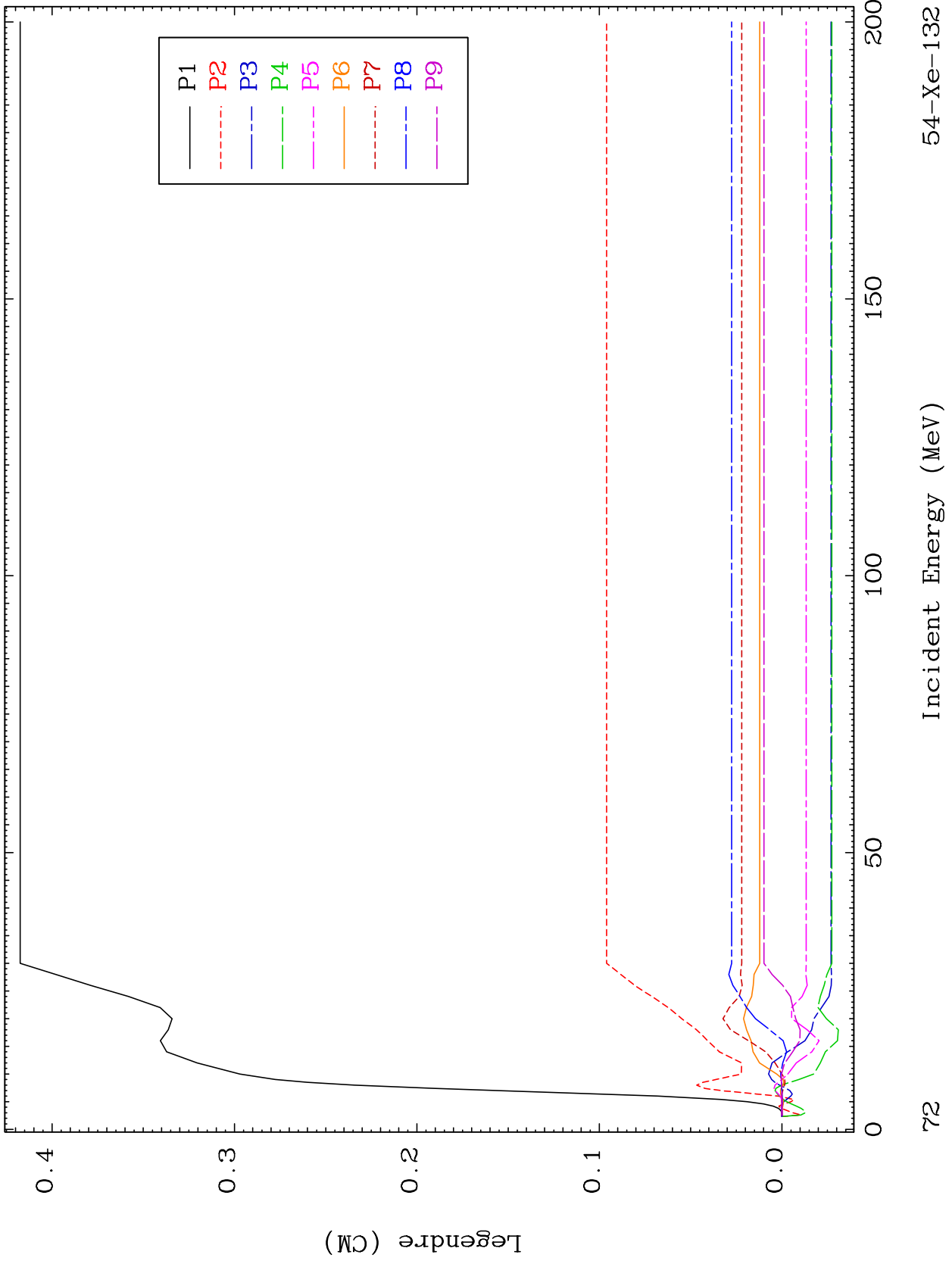




MAT 5449

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

54-Xe-132



72

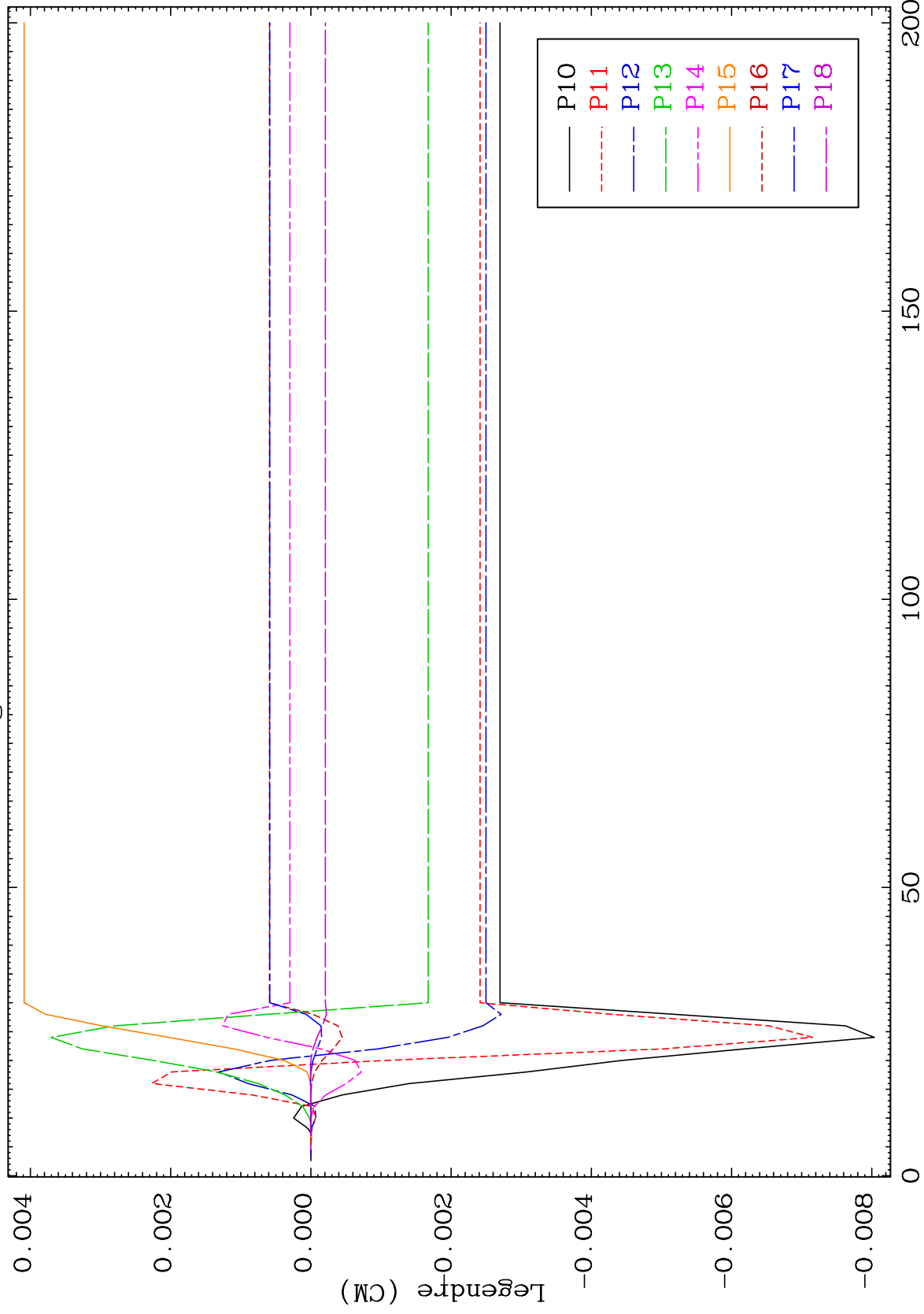
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



73

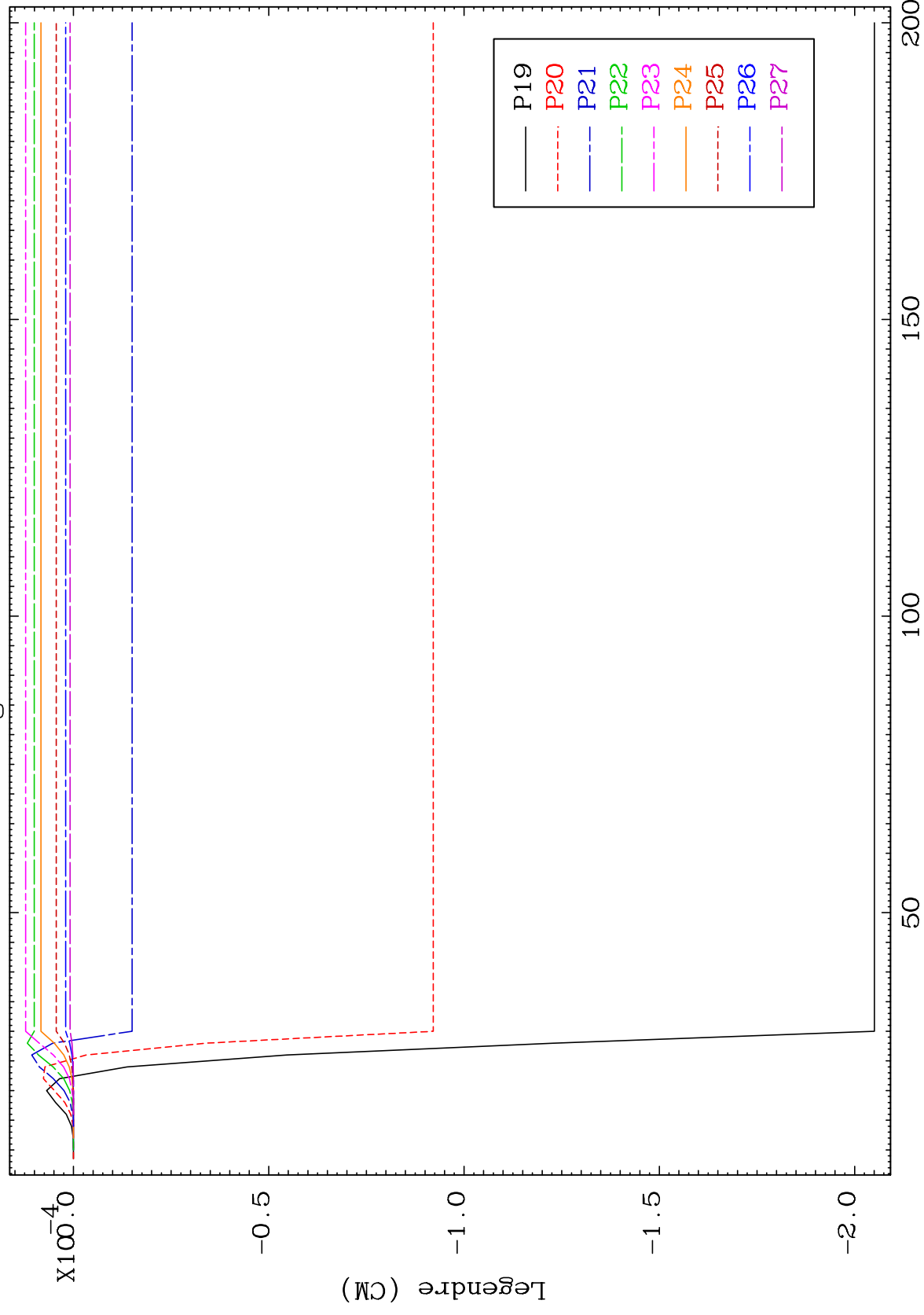
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



74

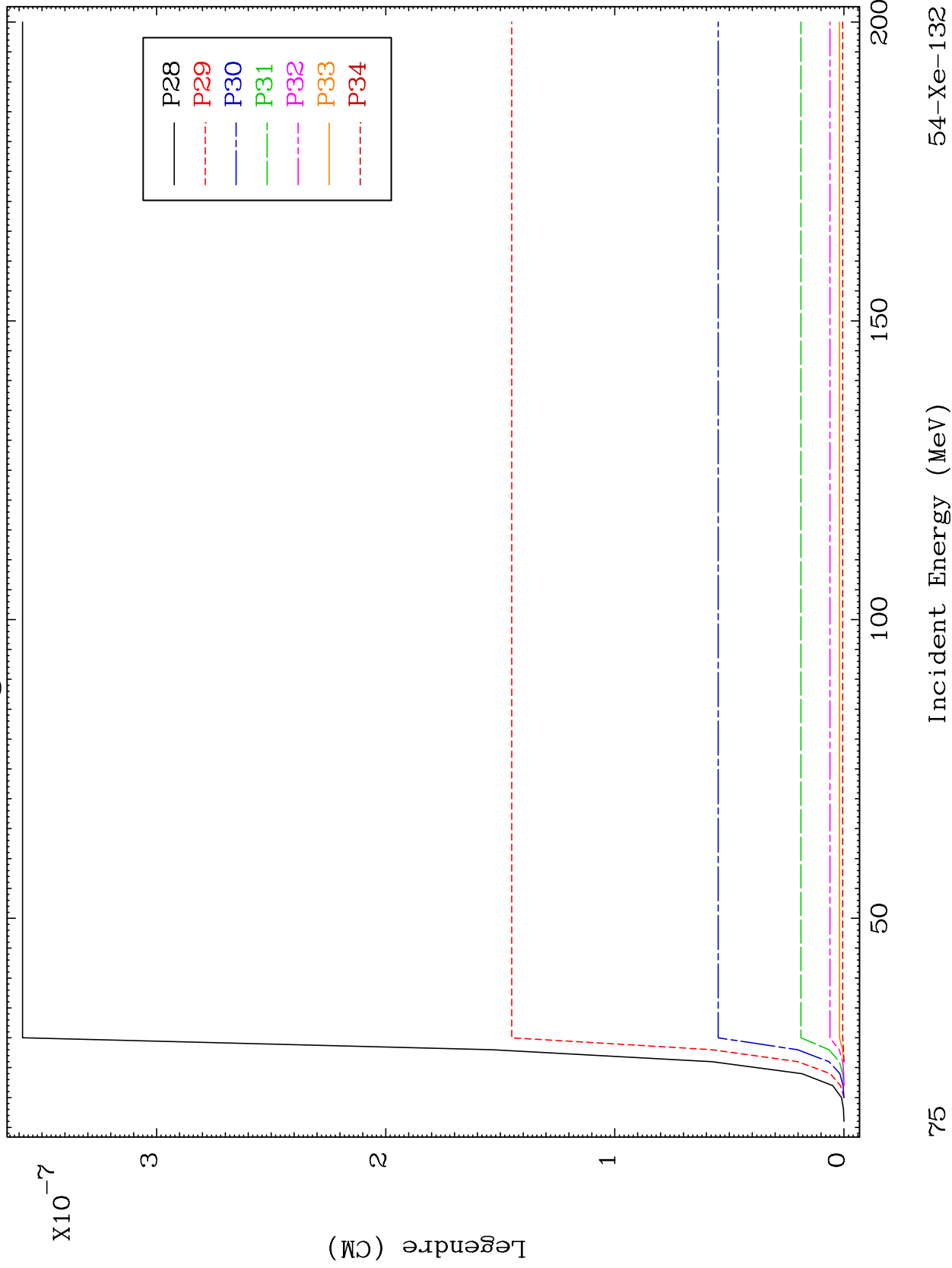
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



54-Xe-132

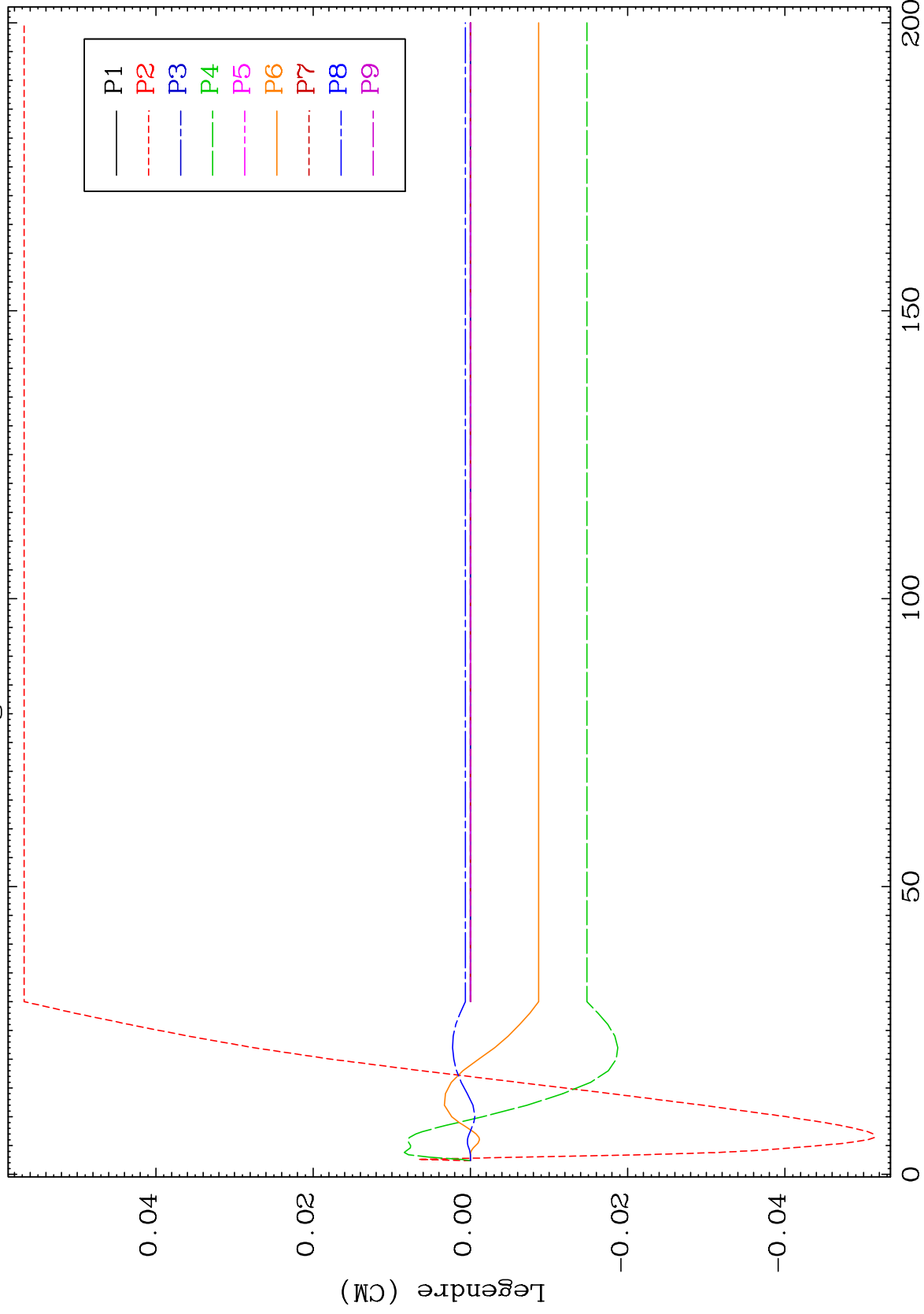
Incident Energy (MeV)

75

MAT 5449

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

54-Xe-132



76

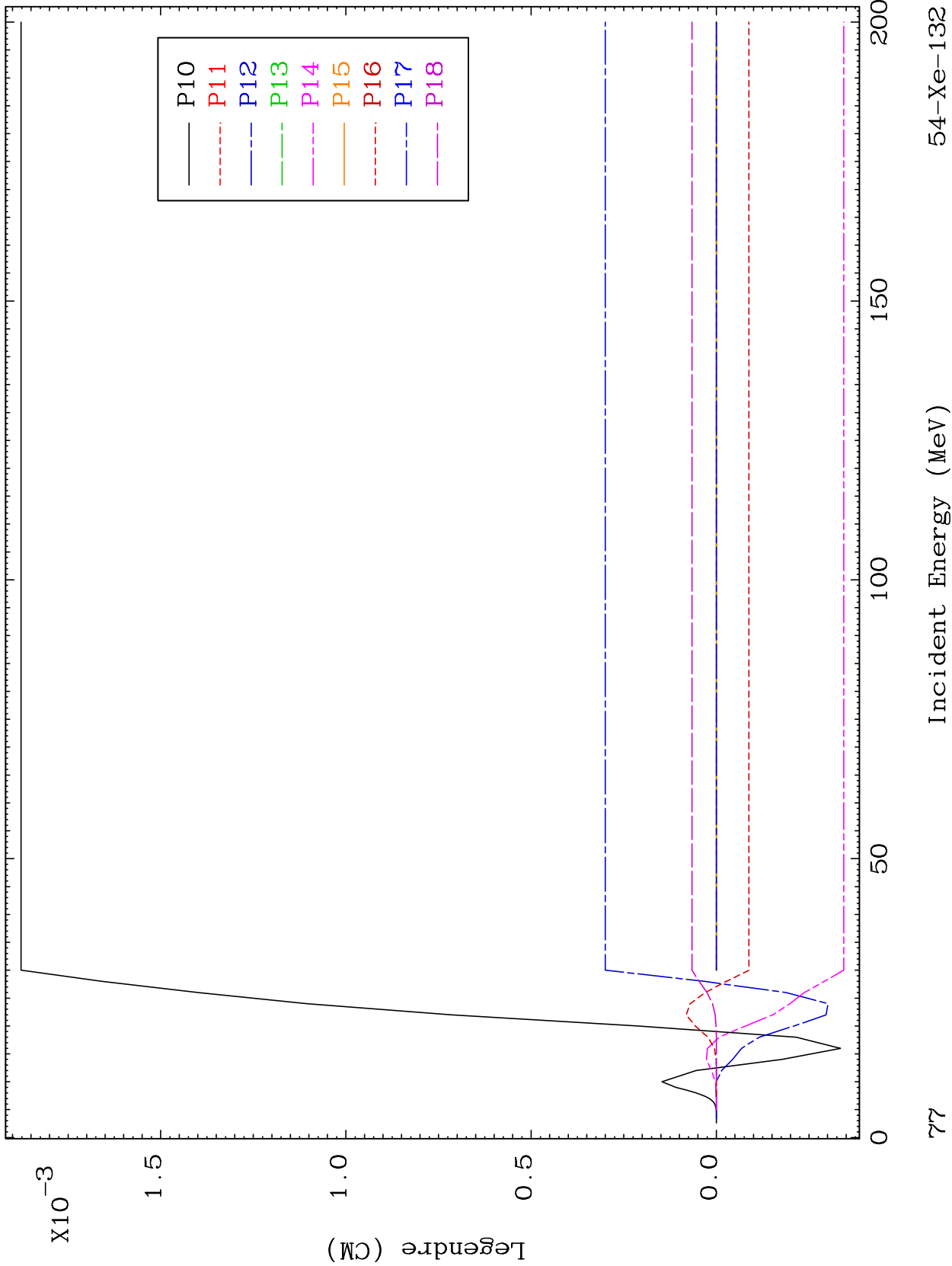
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



77

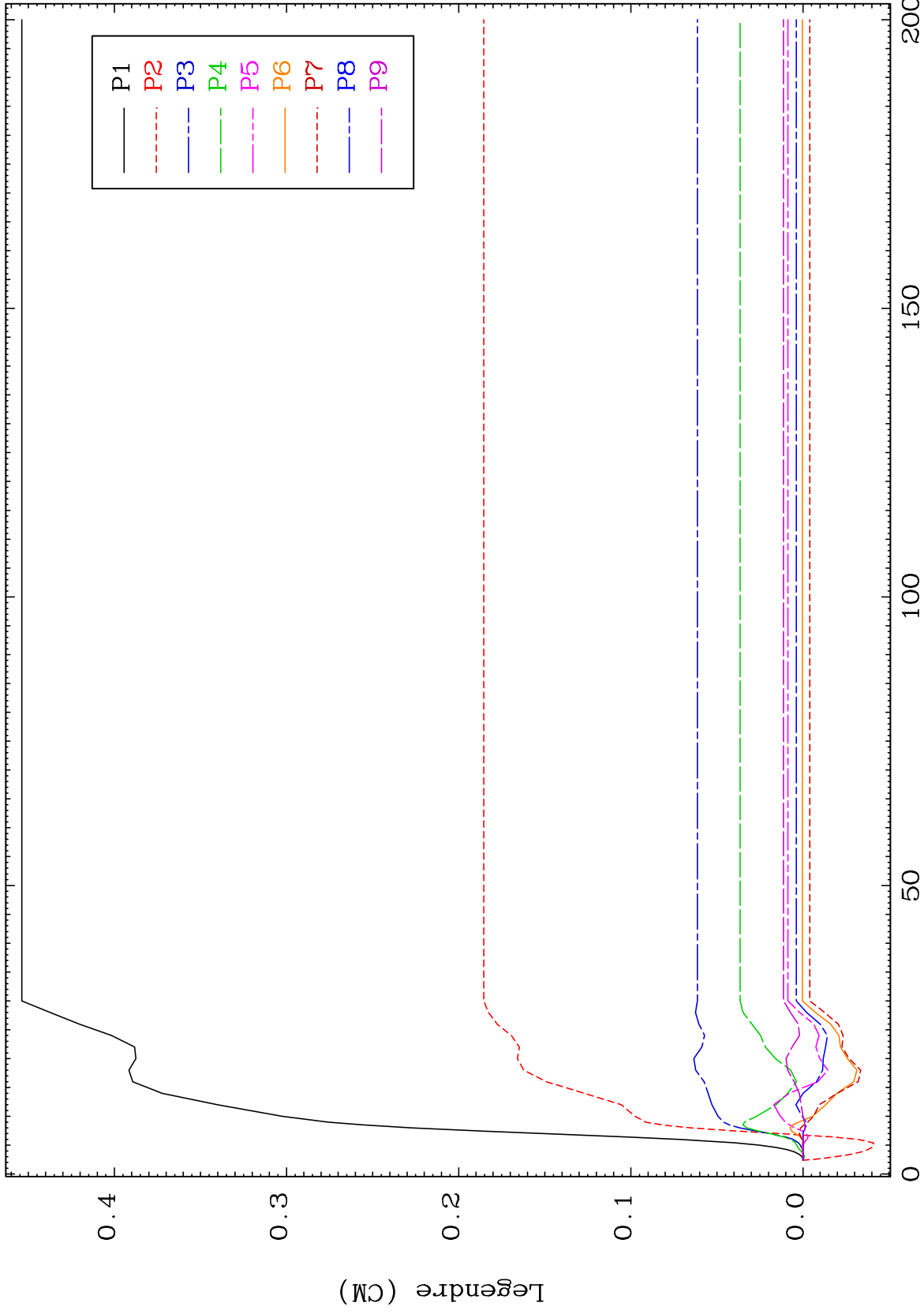
54-Xe-132



MAT 5449

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

54-Xe-132



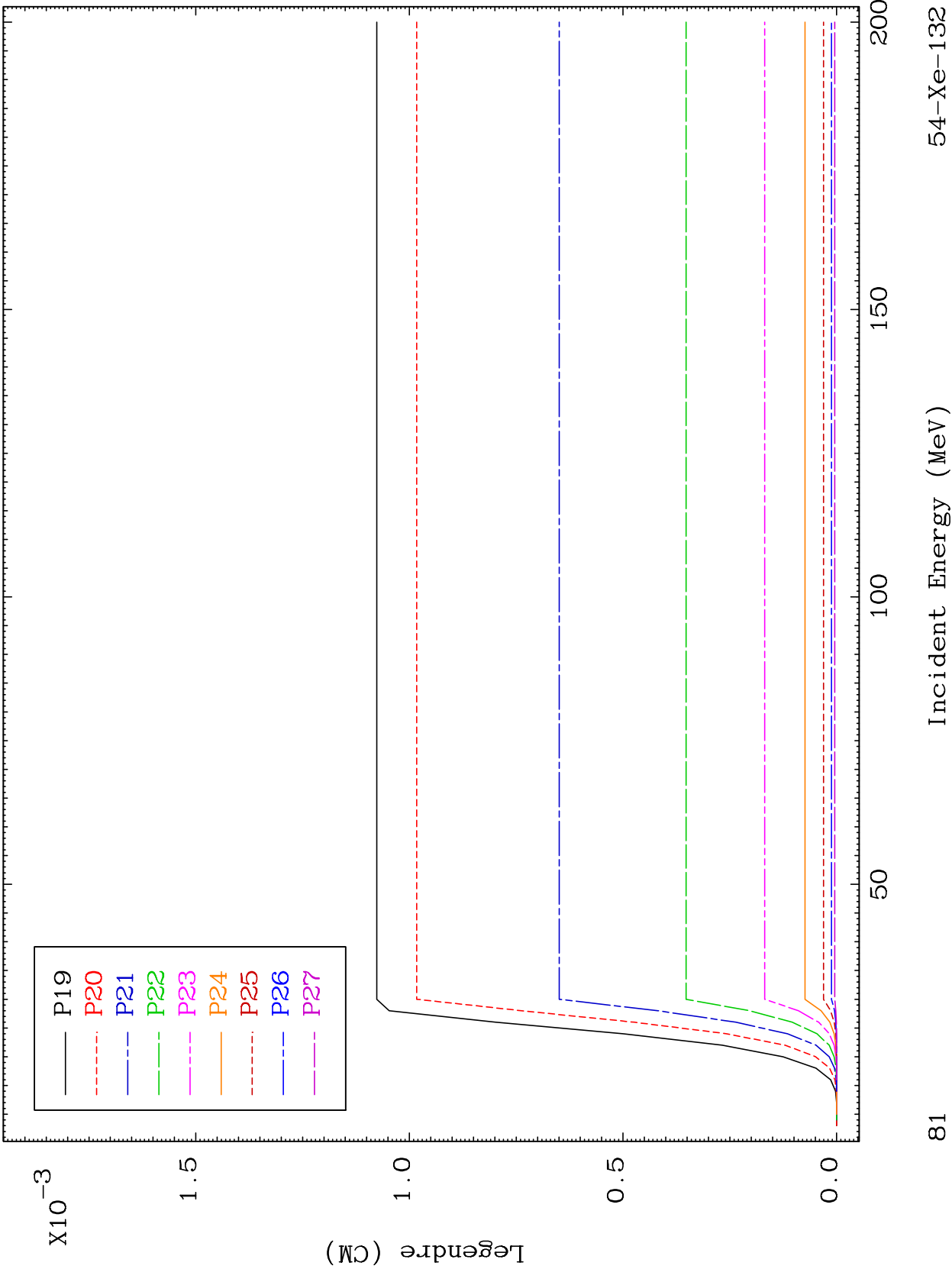
79

Incident Energy (MeV)

54-Xe-132



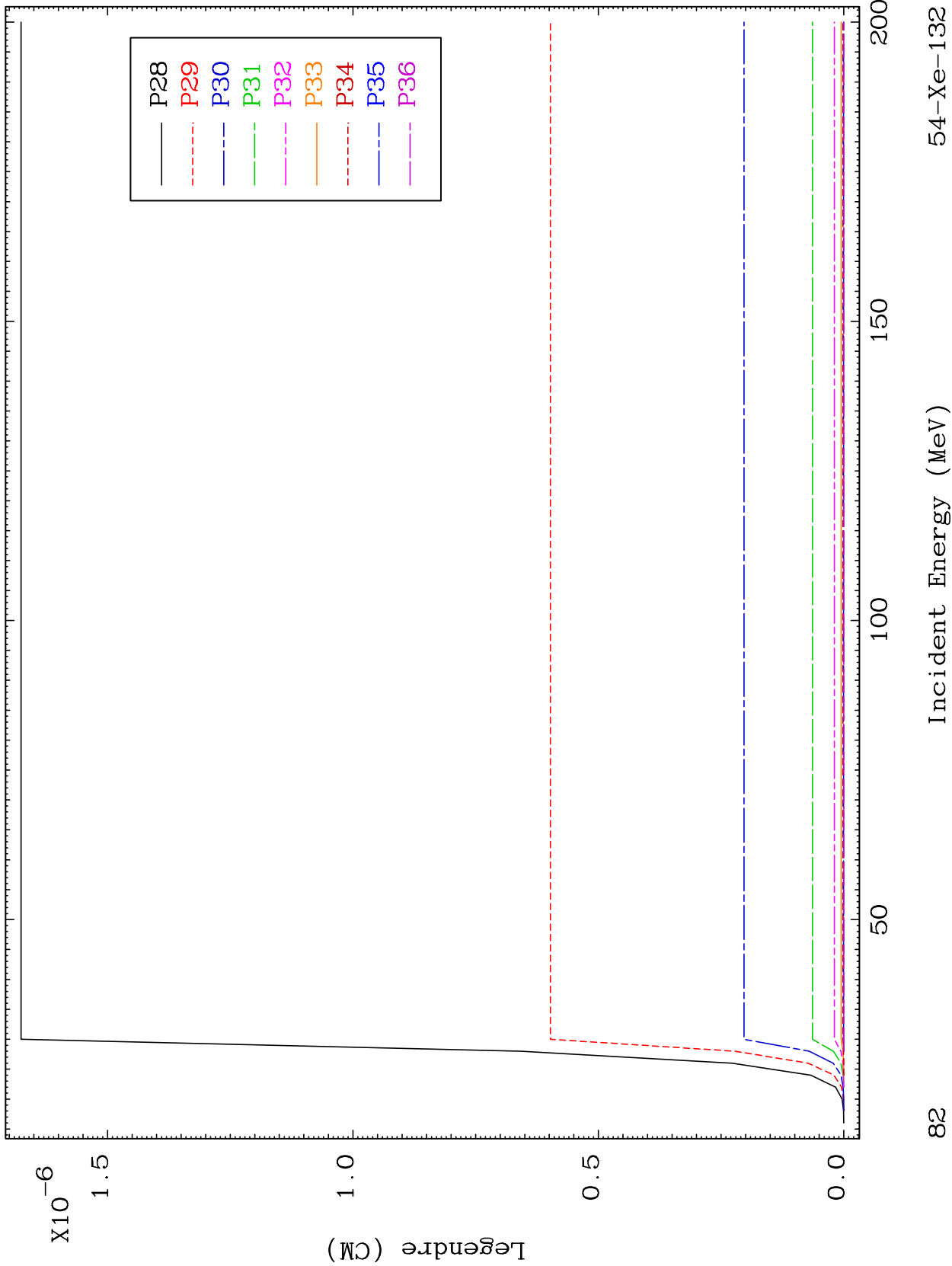




MAT 5449

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

54-Xe-132



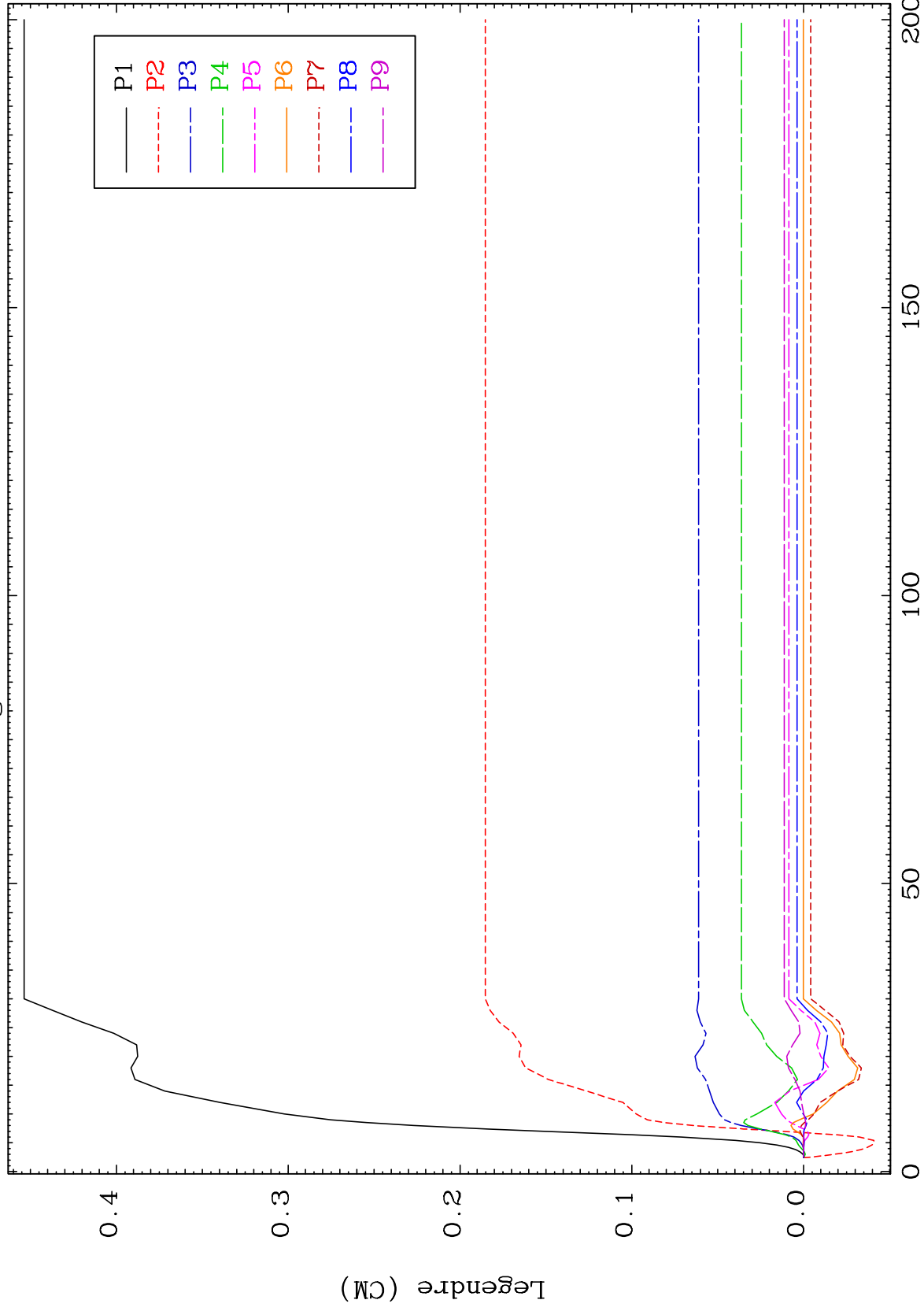
82

54-Xe-132

MAT 5449

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

54-Xe-132



83

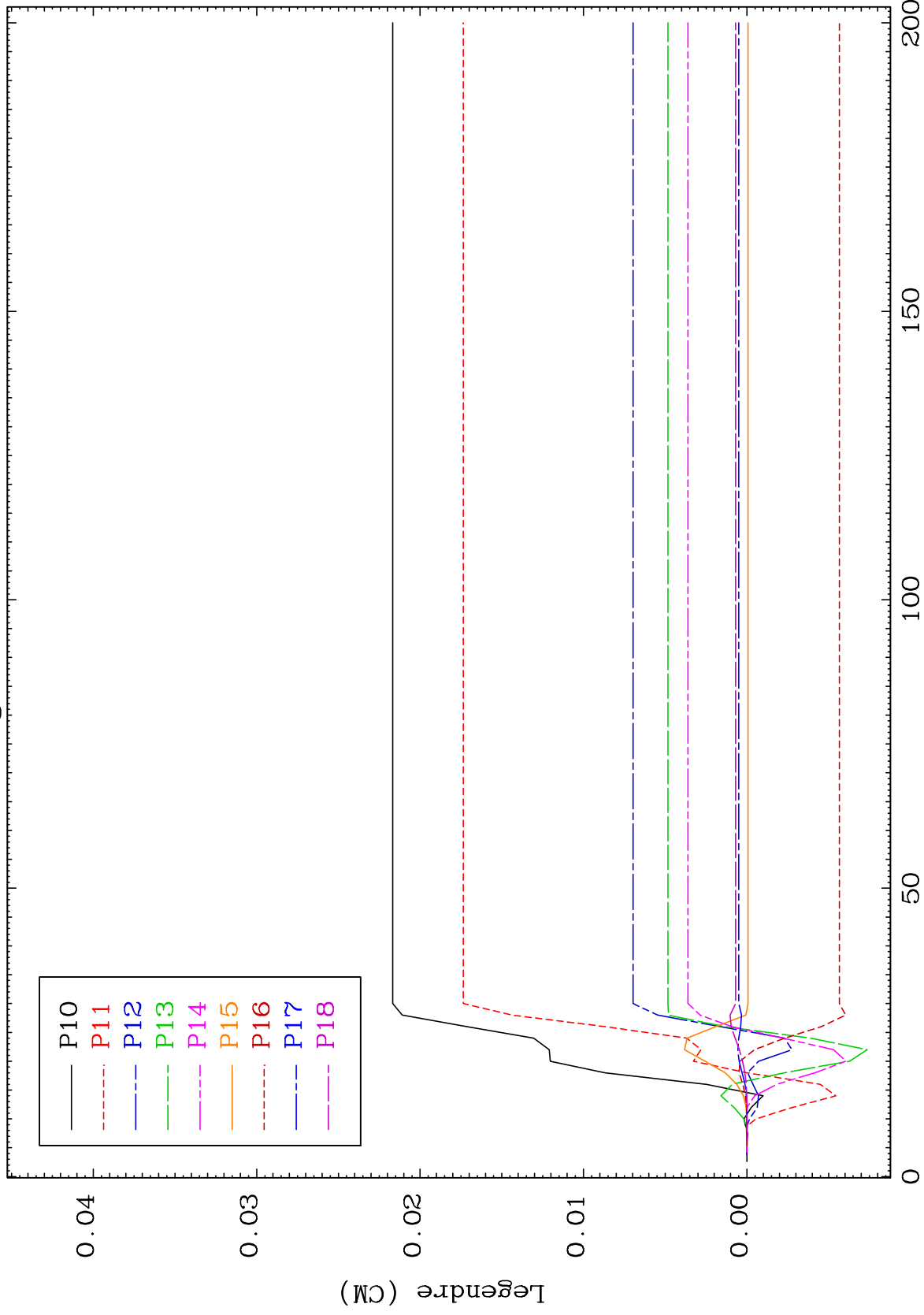
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



84

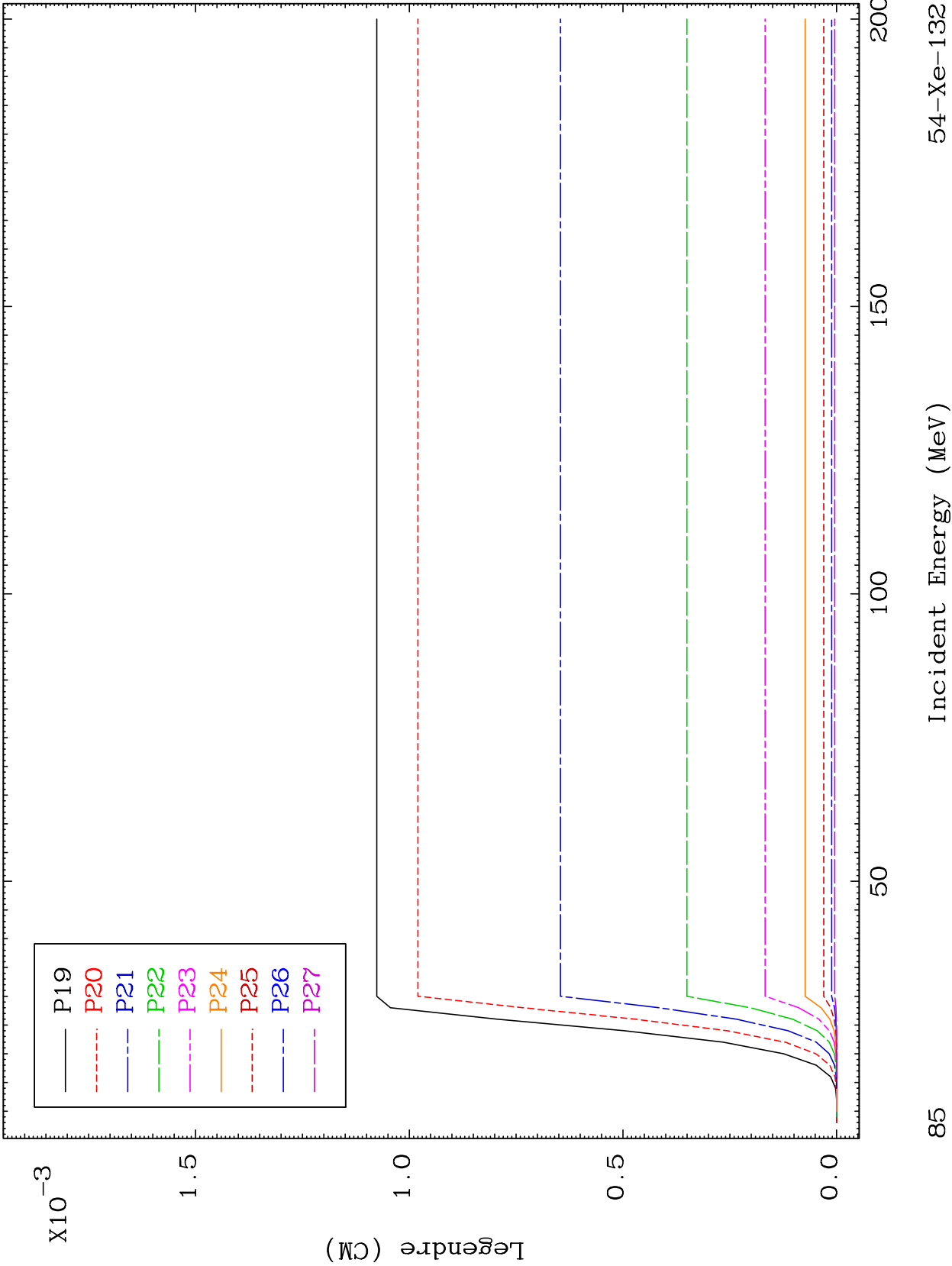
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

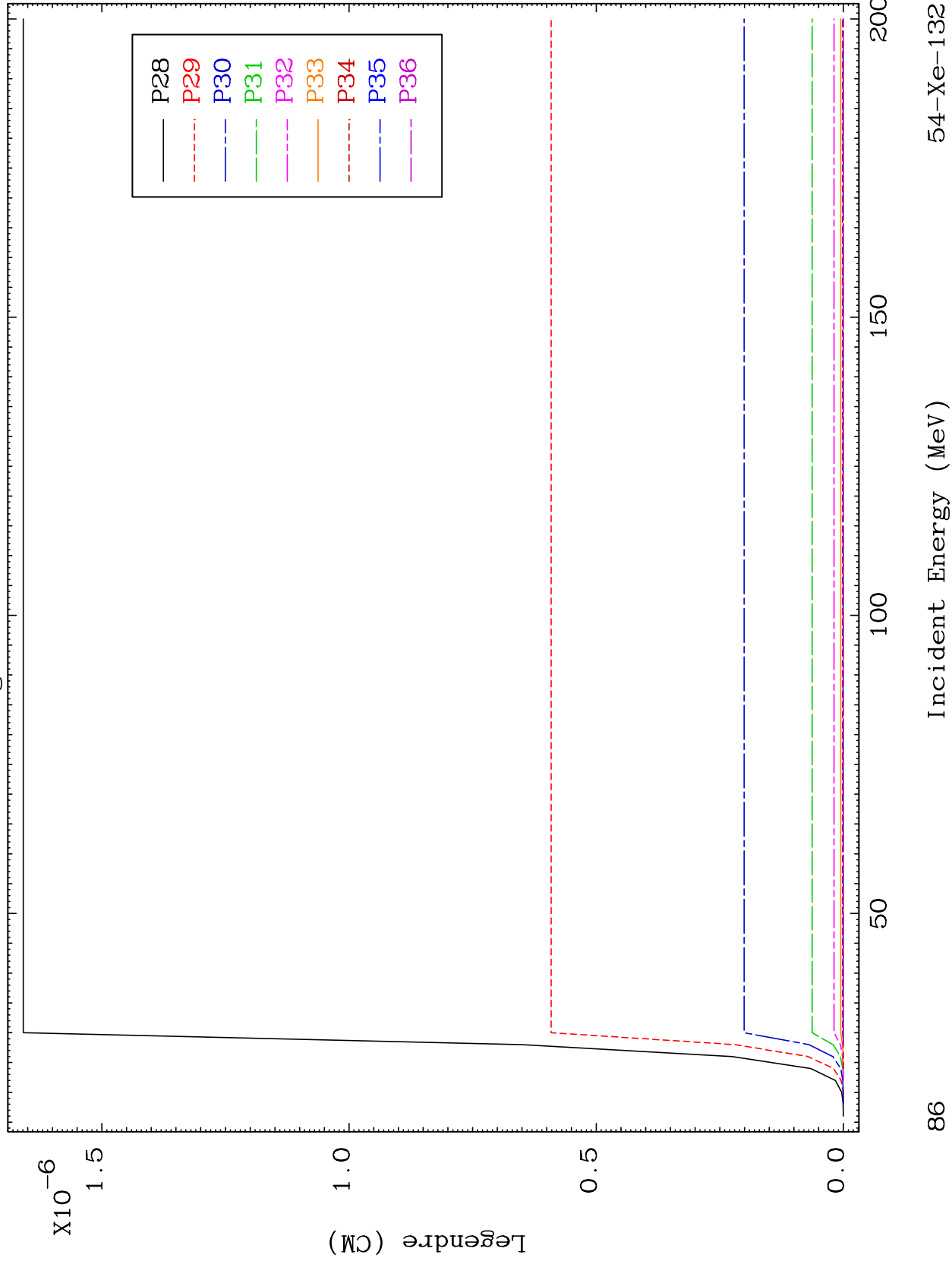
54-Xe-132



MAT 5449

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

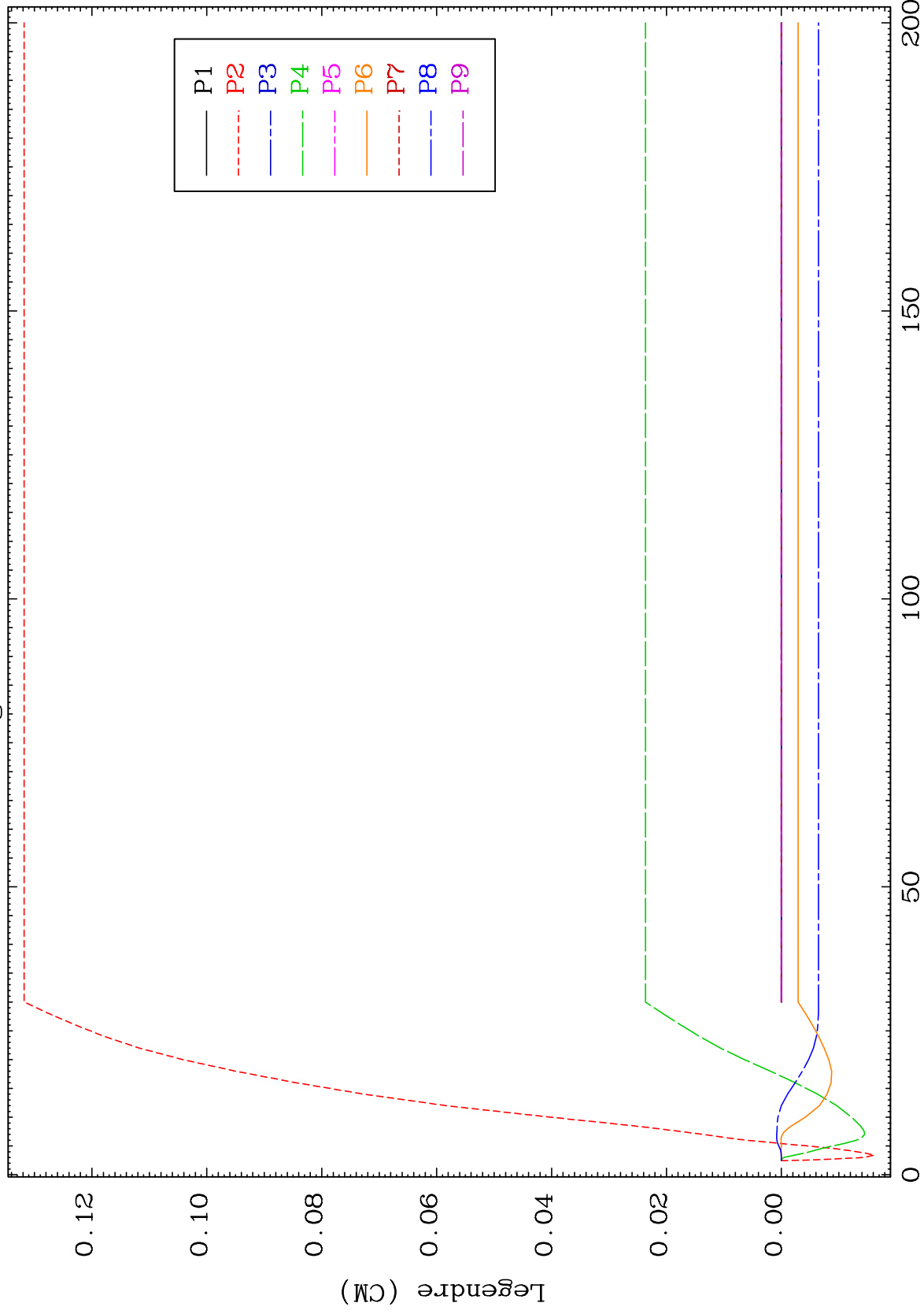
54-Xe-132



MAT 5449

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

54-Xe-132



54-Xe-132

Incident Energy (MeV)

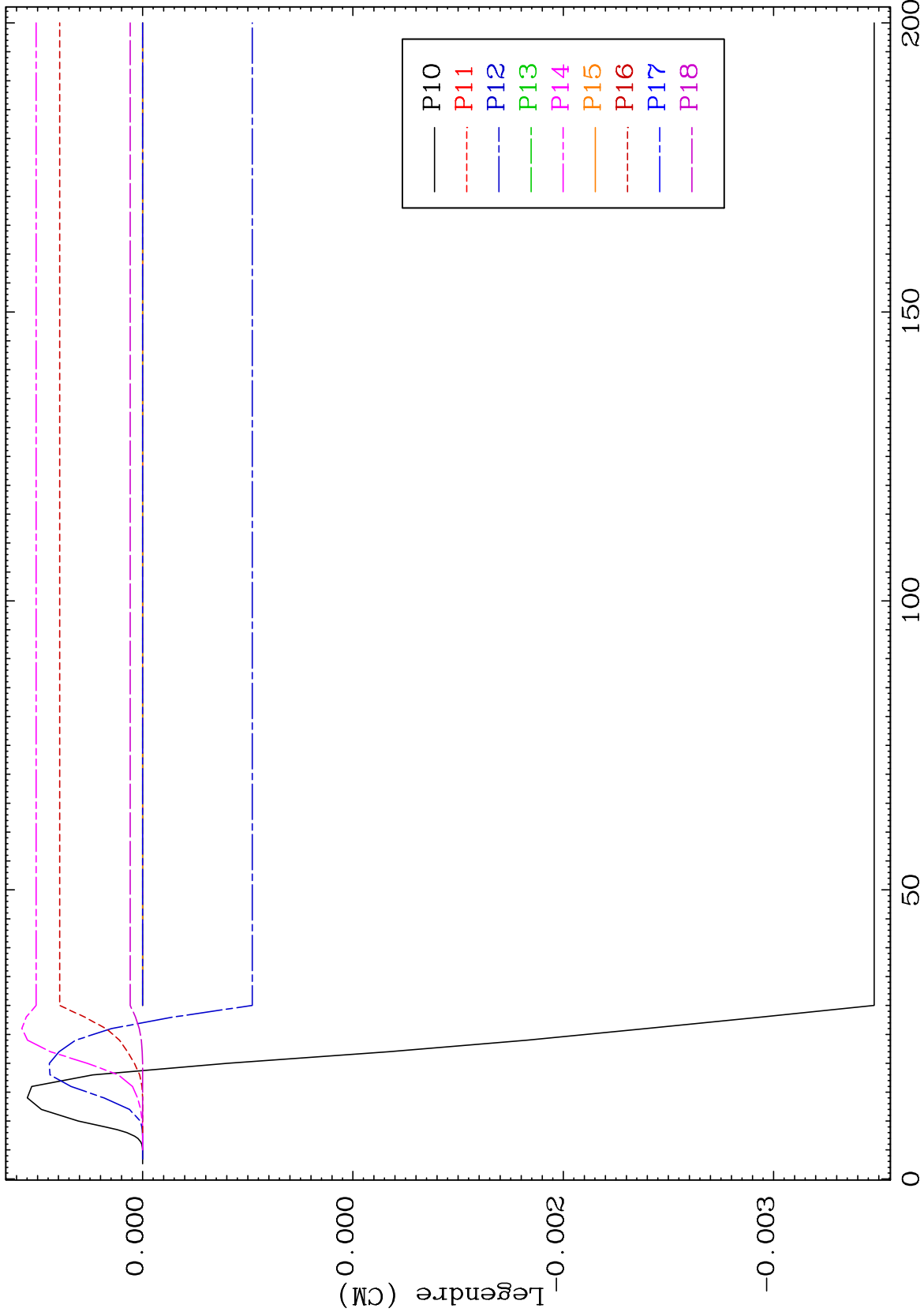
87



MAT 5449

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

54-Xe-132



88

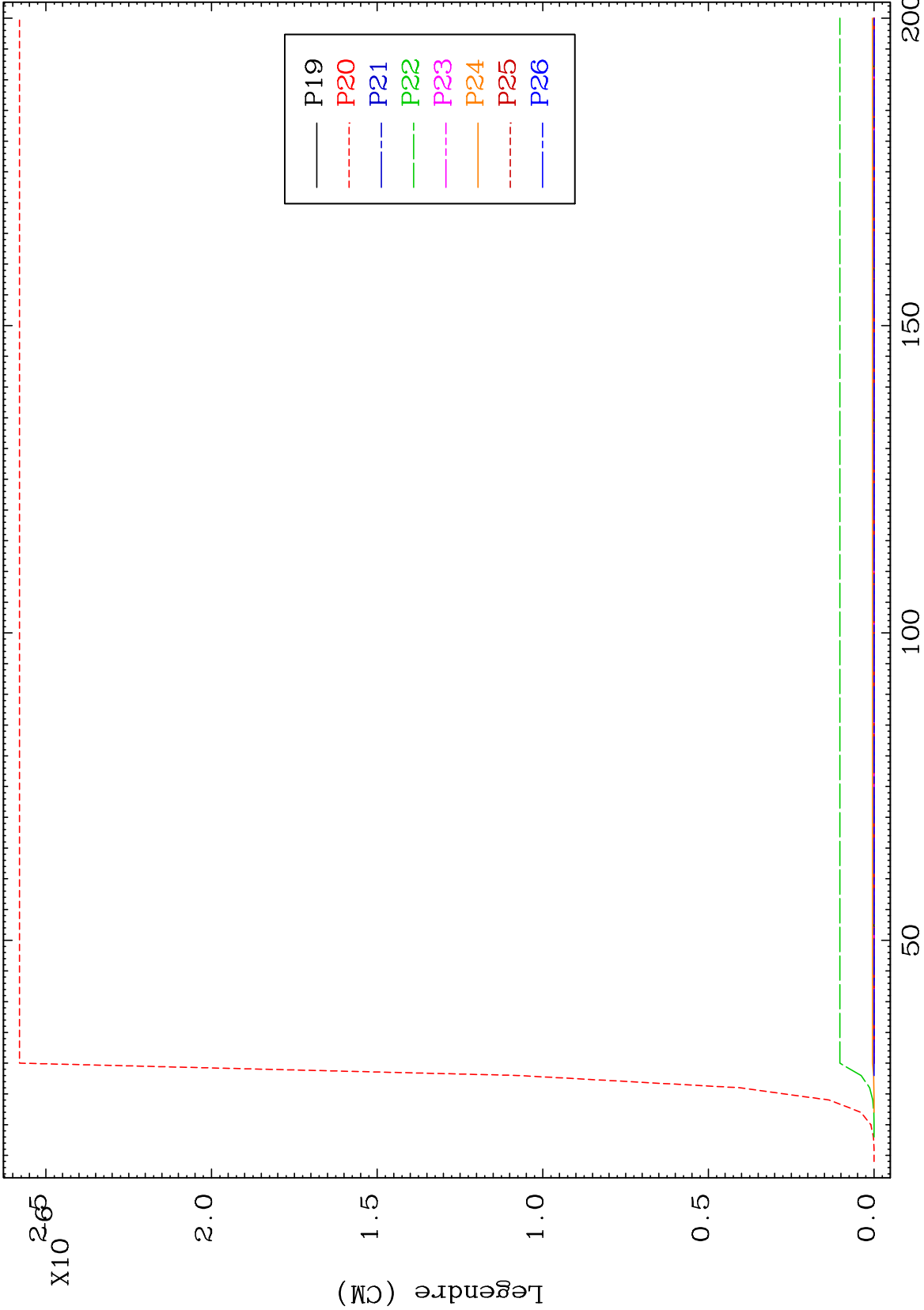
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



89

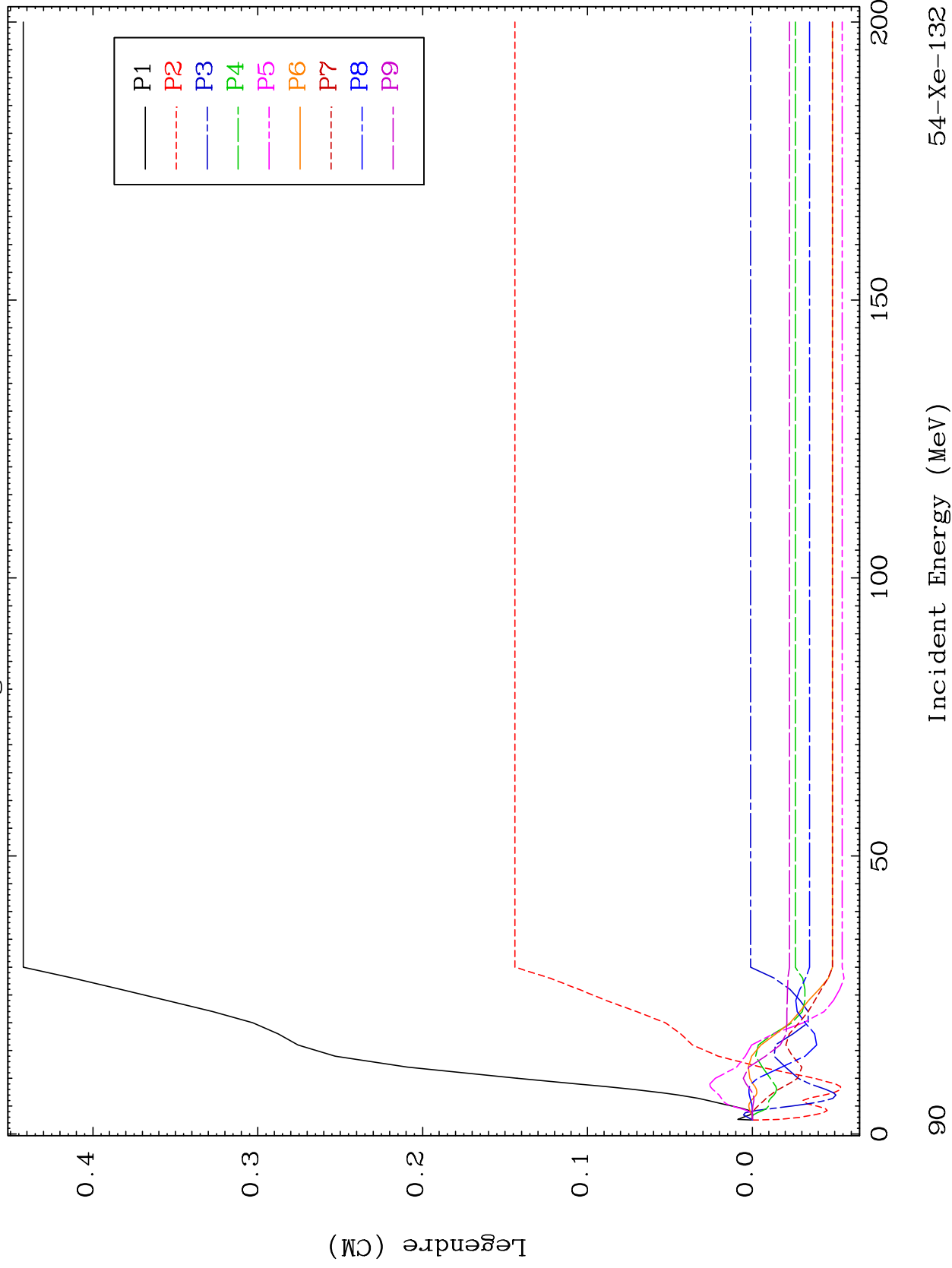
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



54-Xe-132

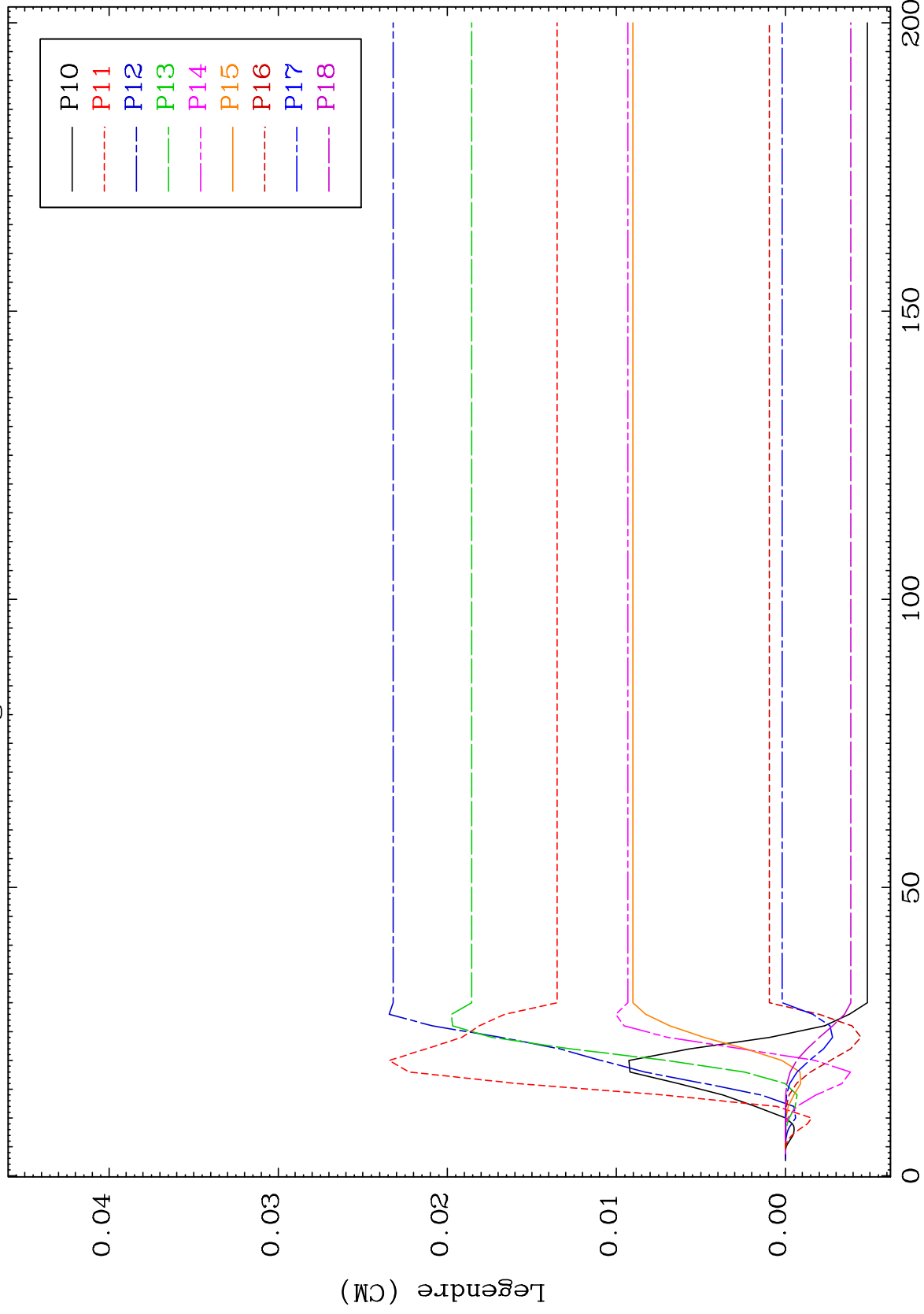
Incident Energy (MeV)

90

MAT 5449

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

54-Xe-132



91

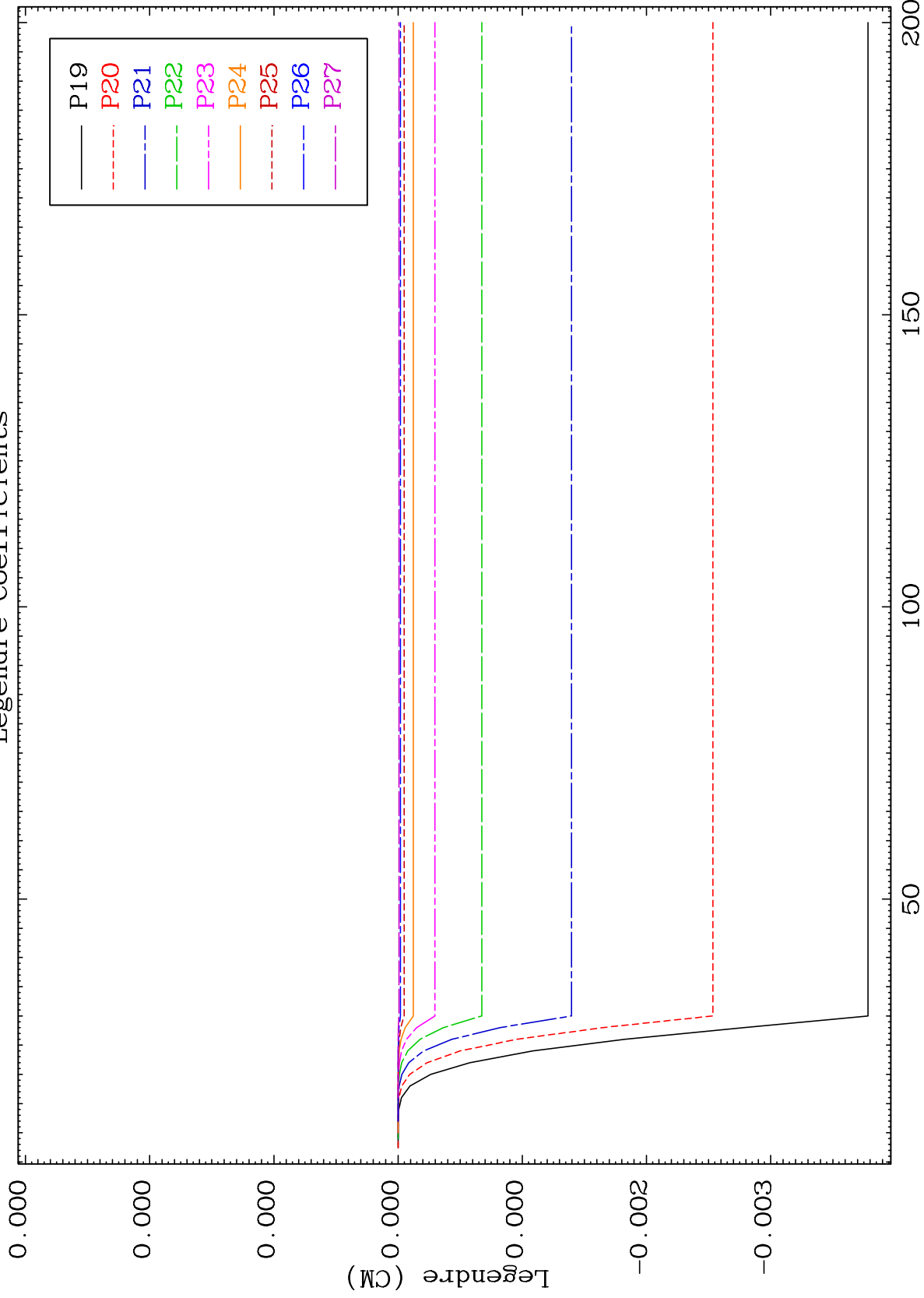
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



92

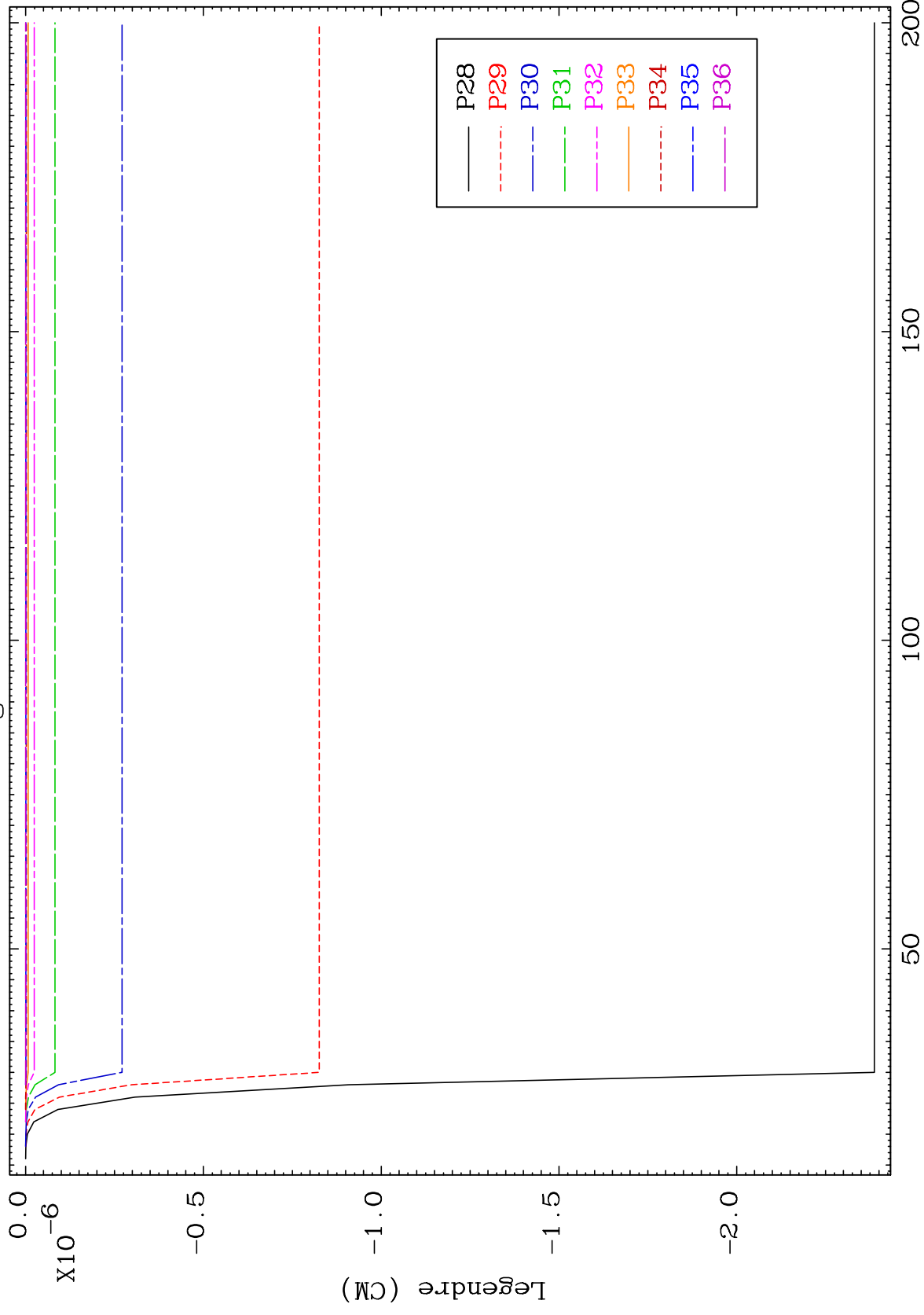
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

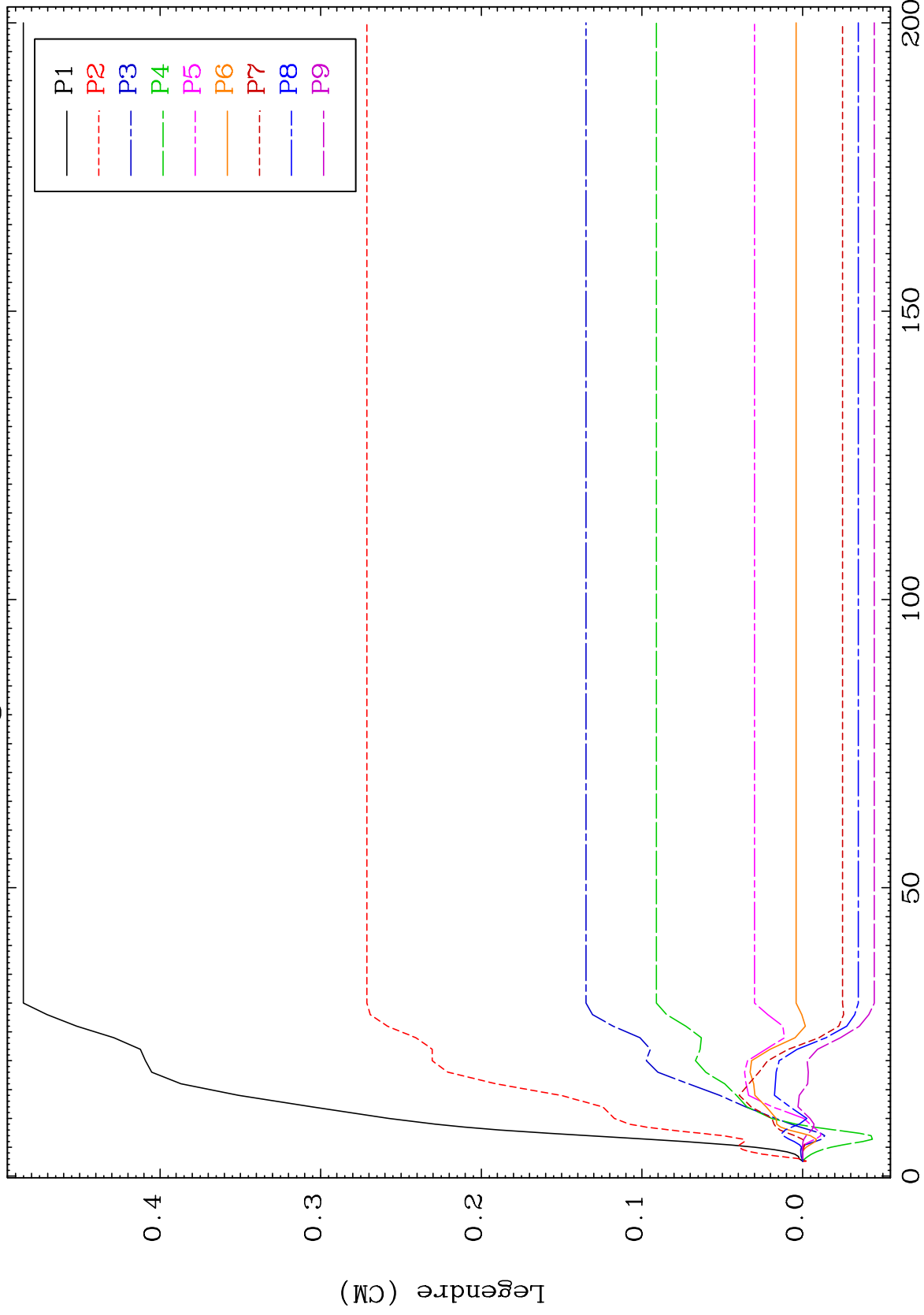
54-Xe-132



MAT 5449

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

54-Xe-132



94

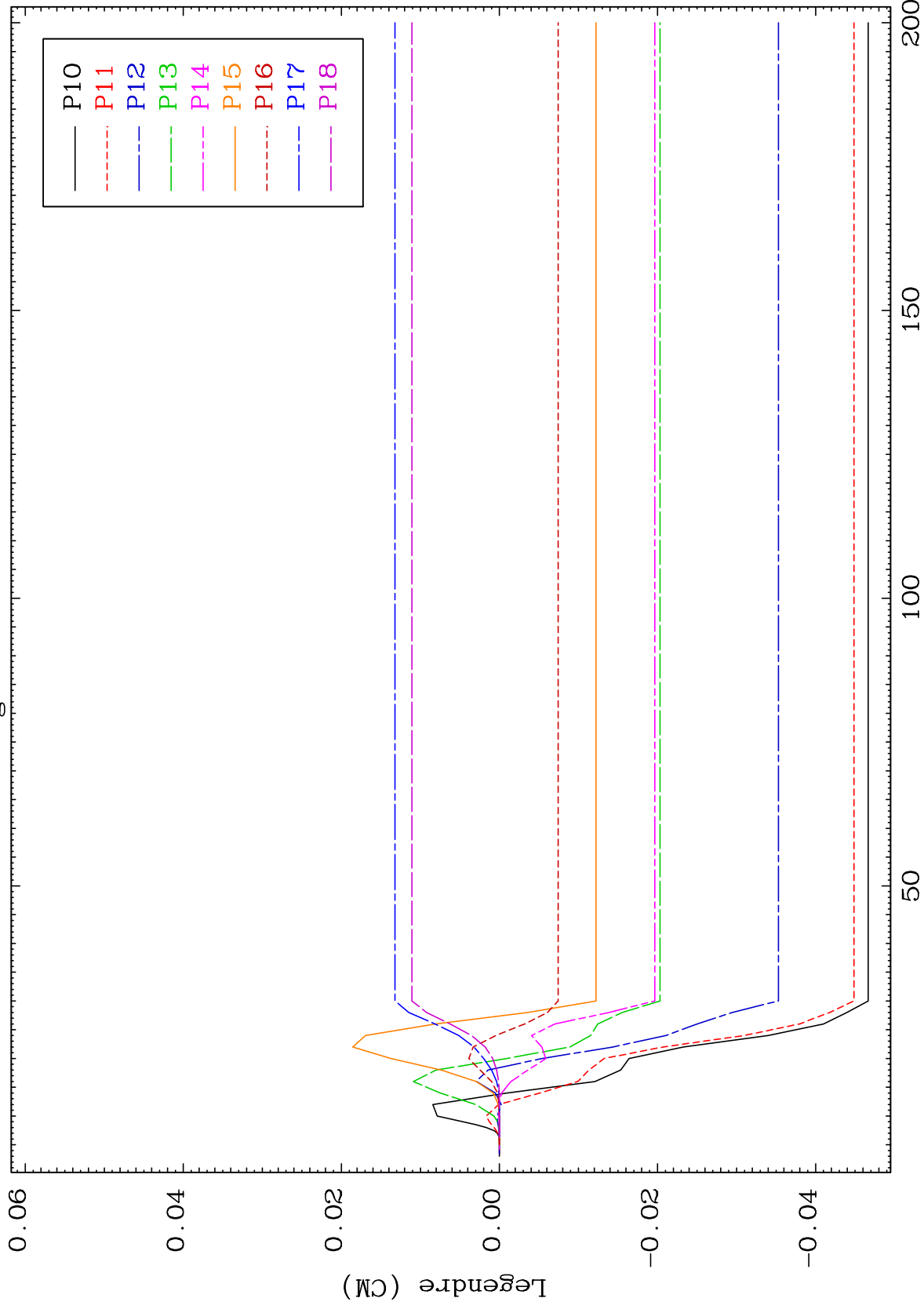
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



95

Incident Energy (MeV)

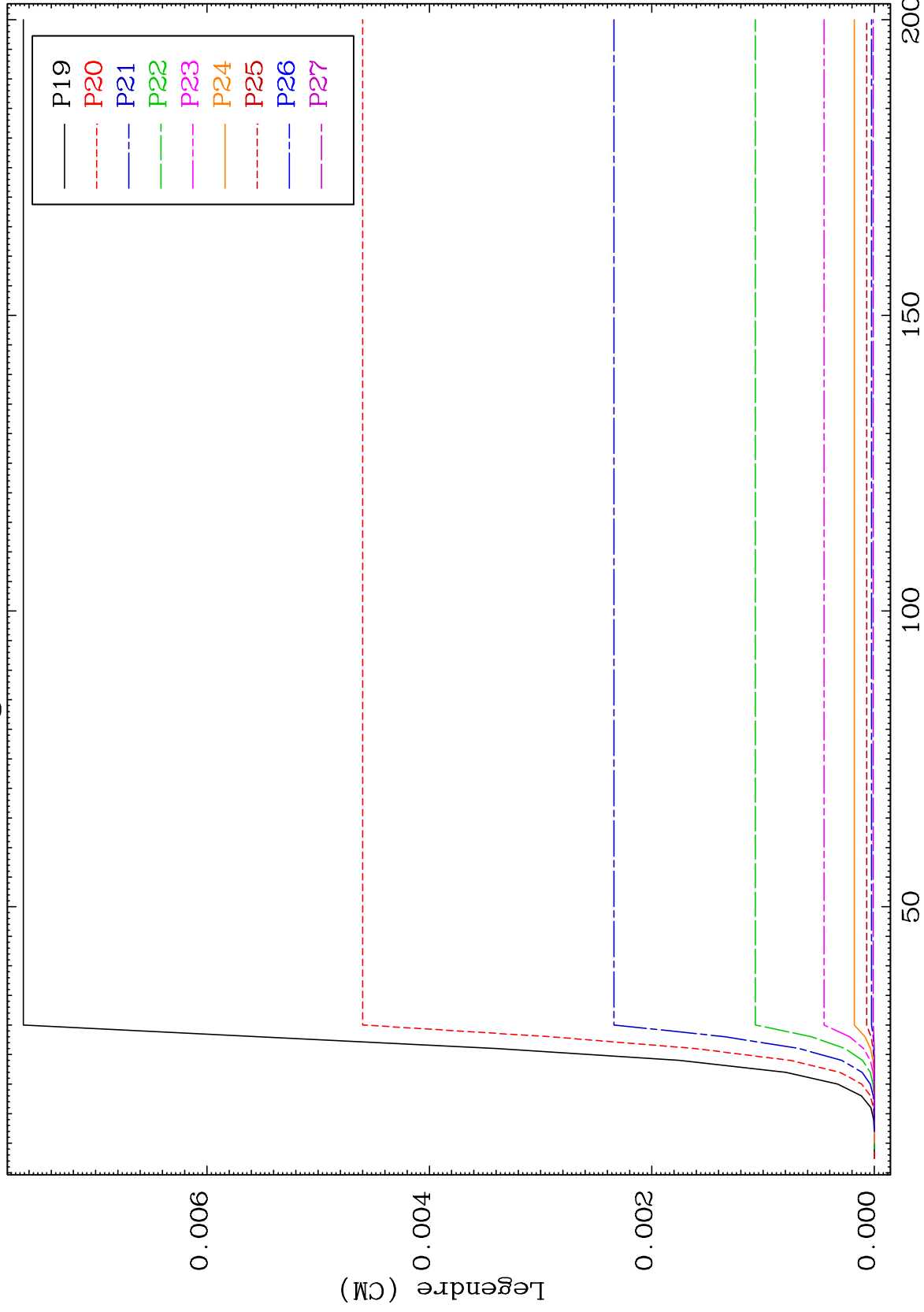
54-Xe-132



MAT 5449

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

54-Xe-132



96

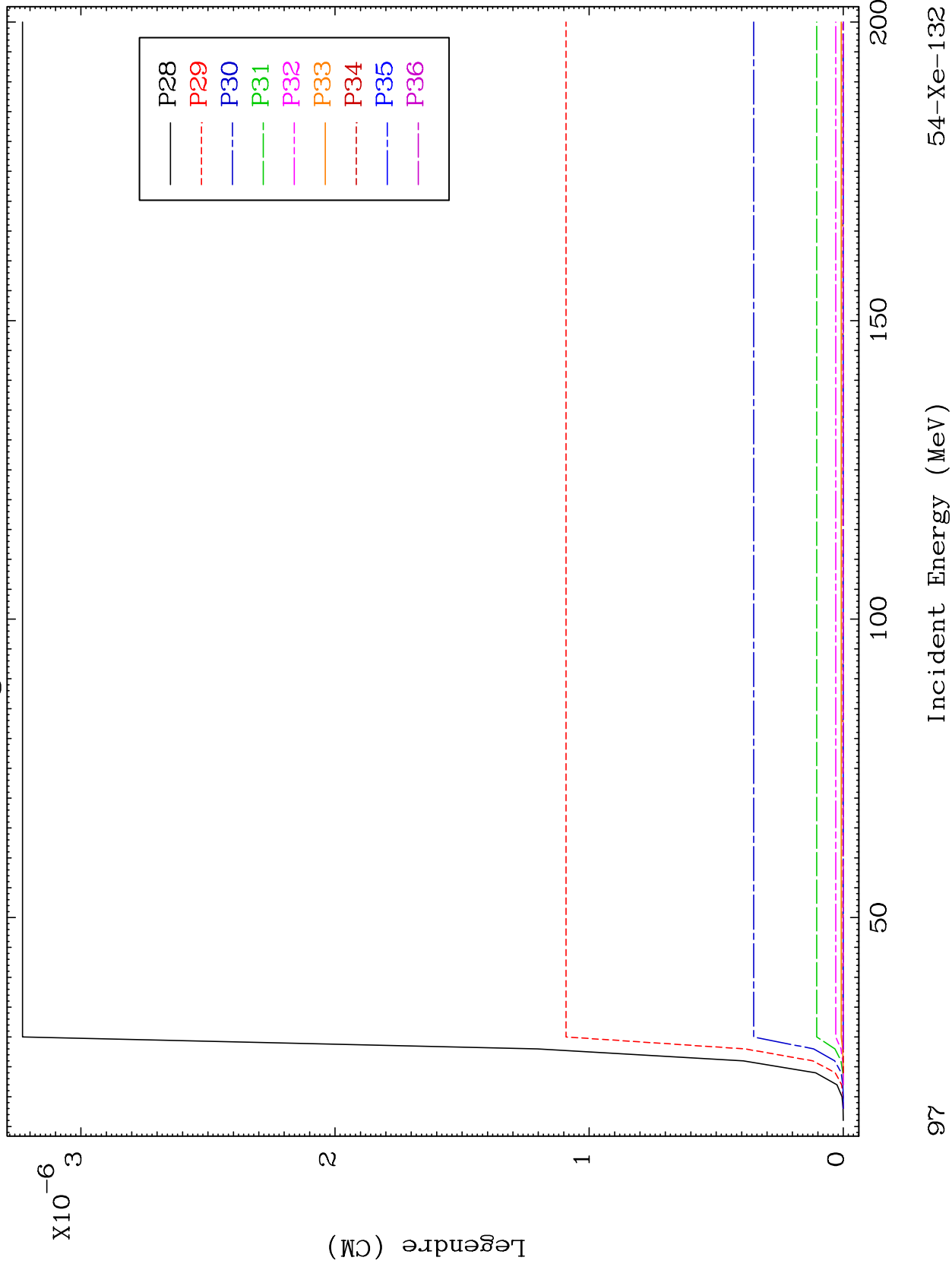
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

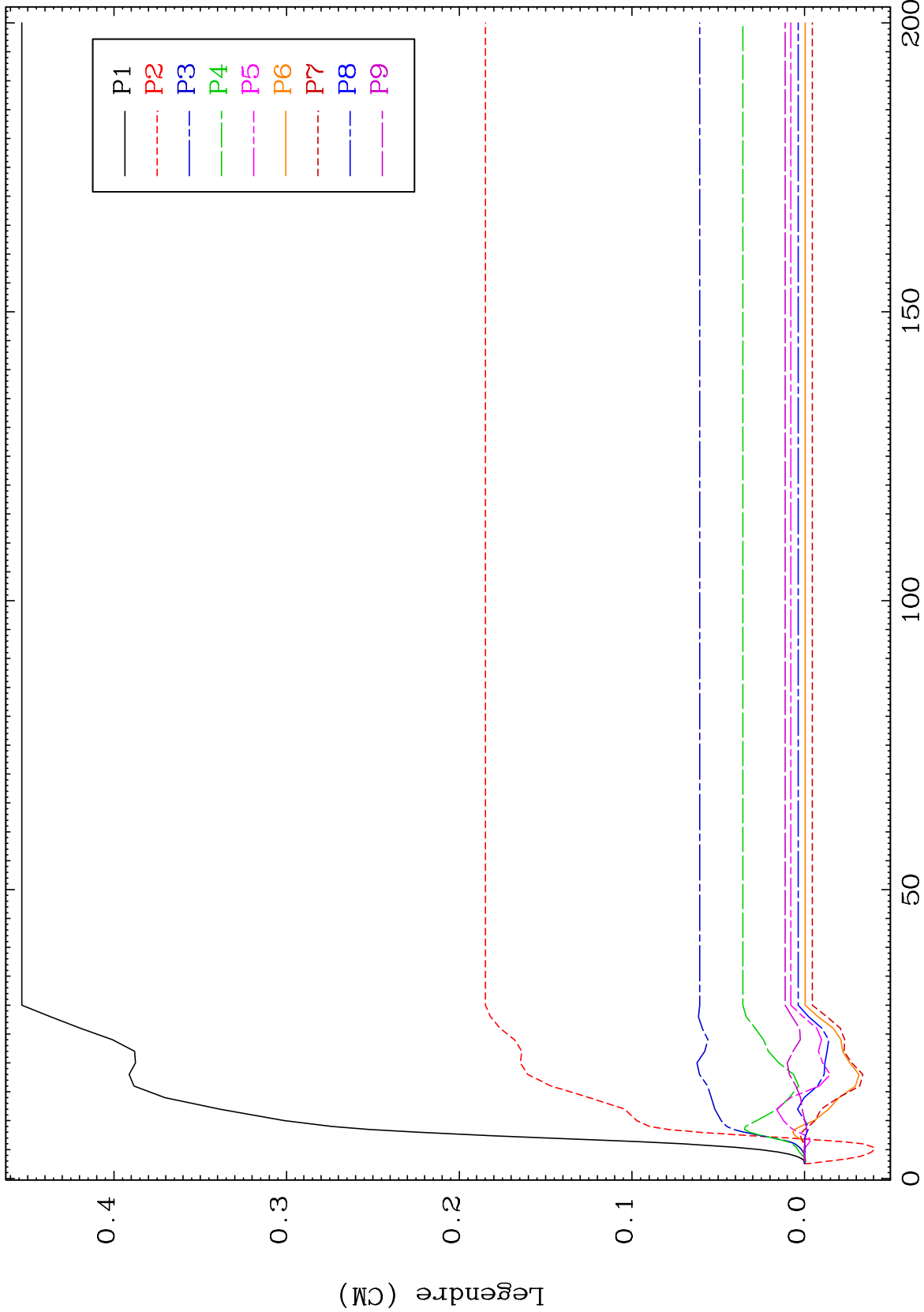
54-Xe-132



MAT 5449

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

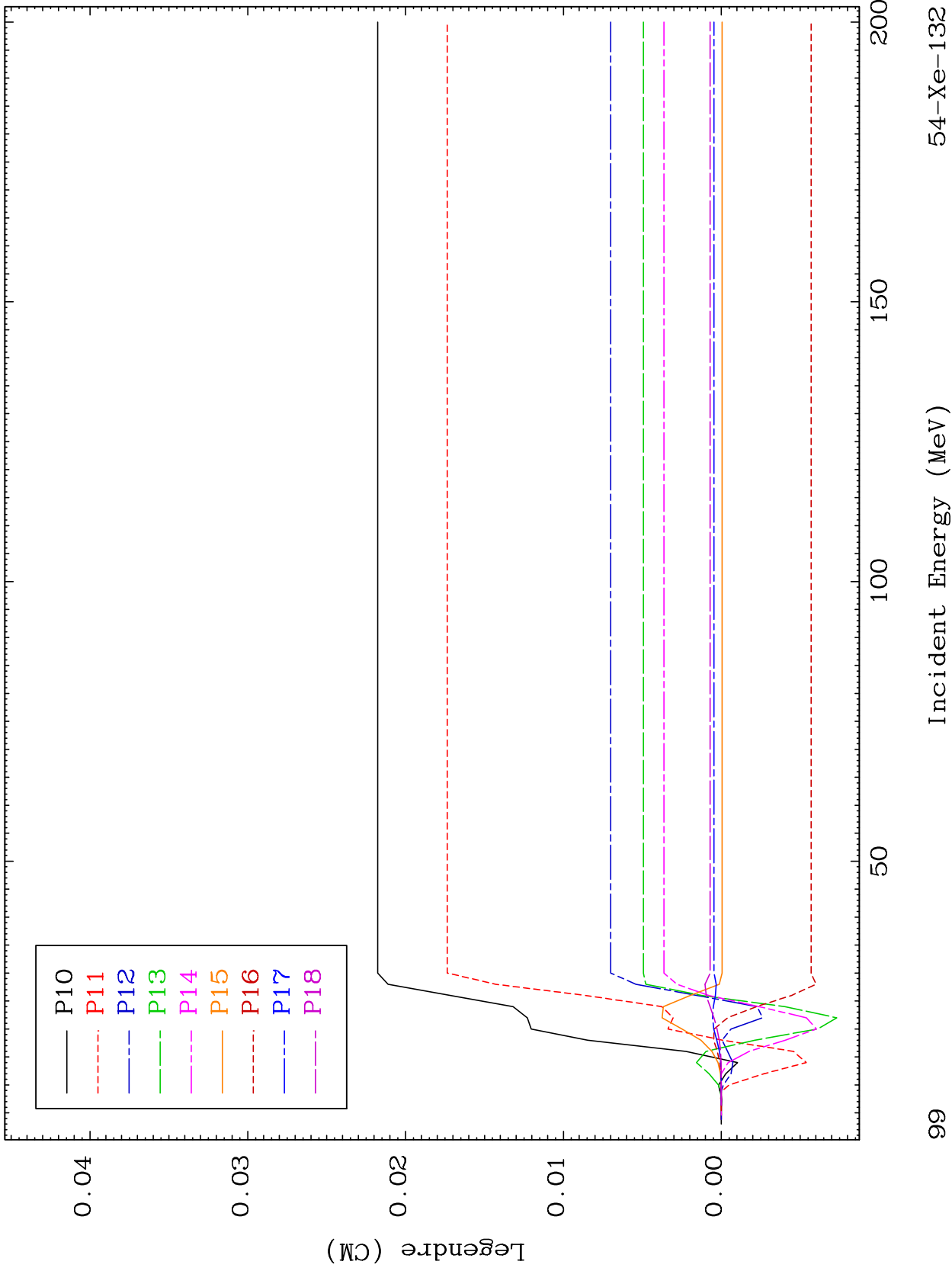
54-Xe-132



98

Incident Energy (MeV)

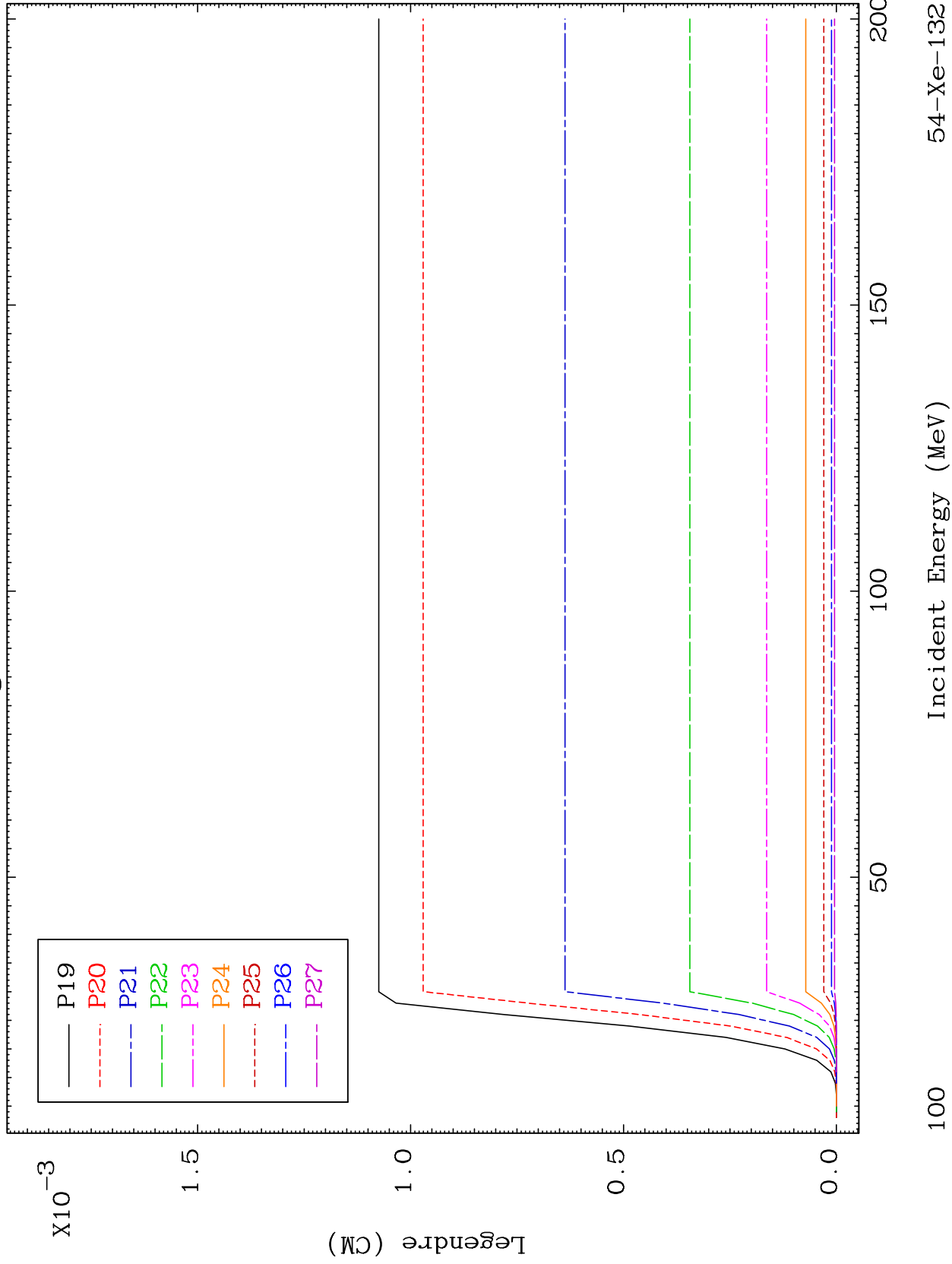
54-Xe-132



MAT 5449

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

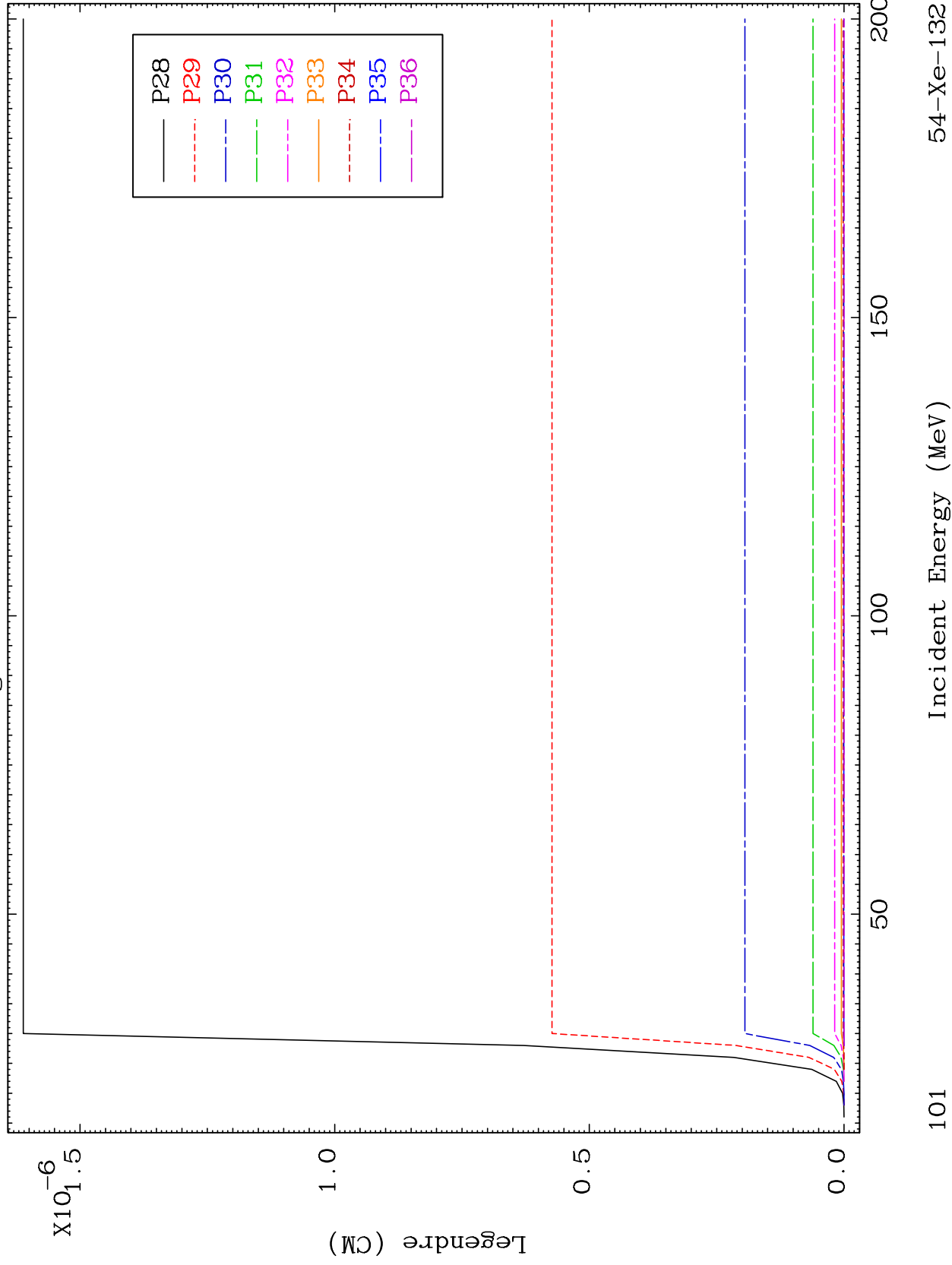
54-Xe-132



MAT 5449

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

54-Xe-132



101

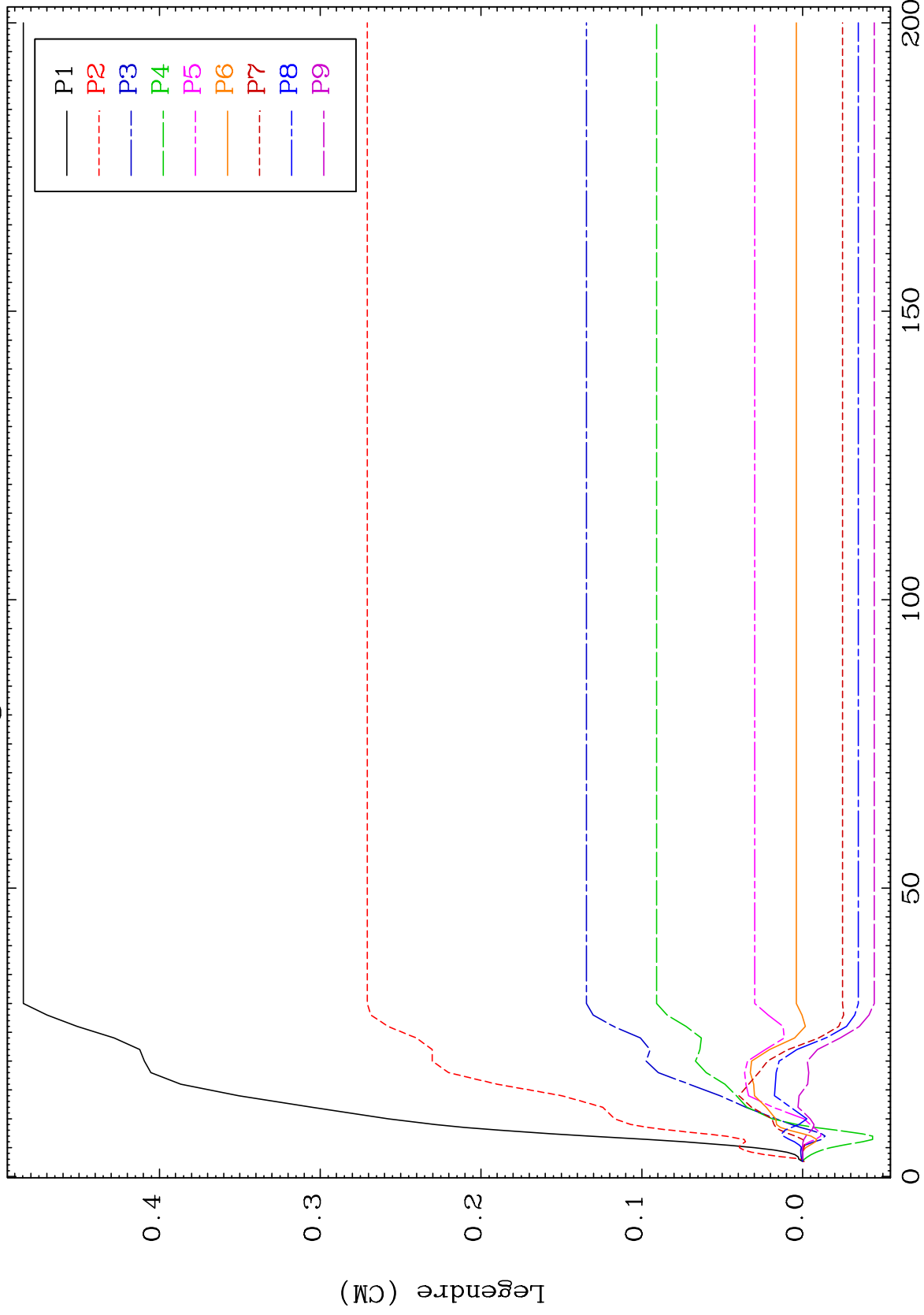
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



102

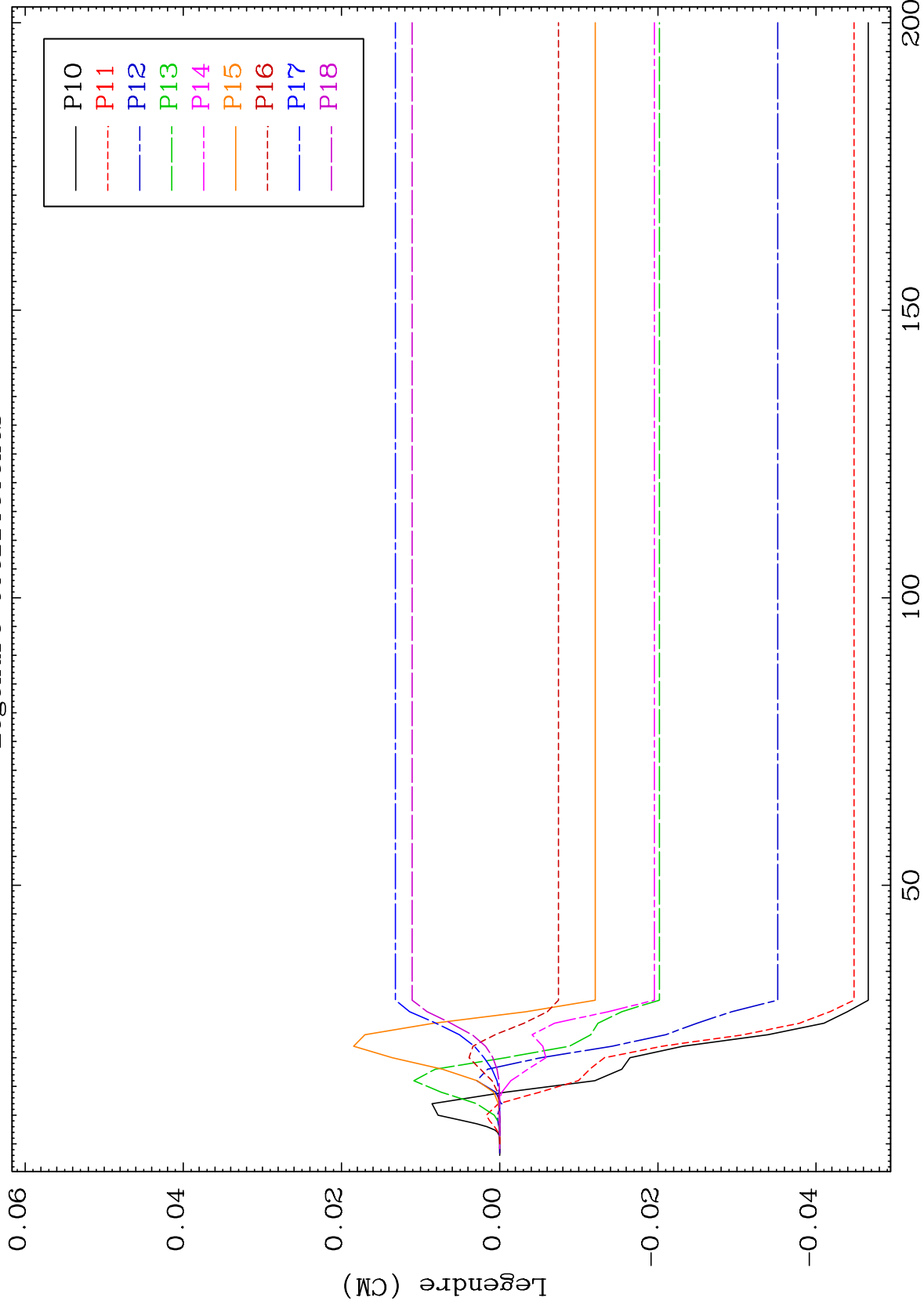
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



103

Incident Energy (MeV)

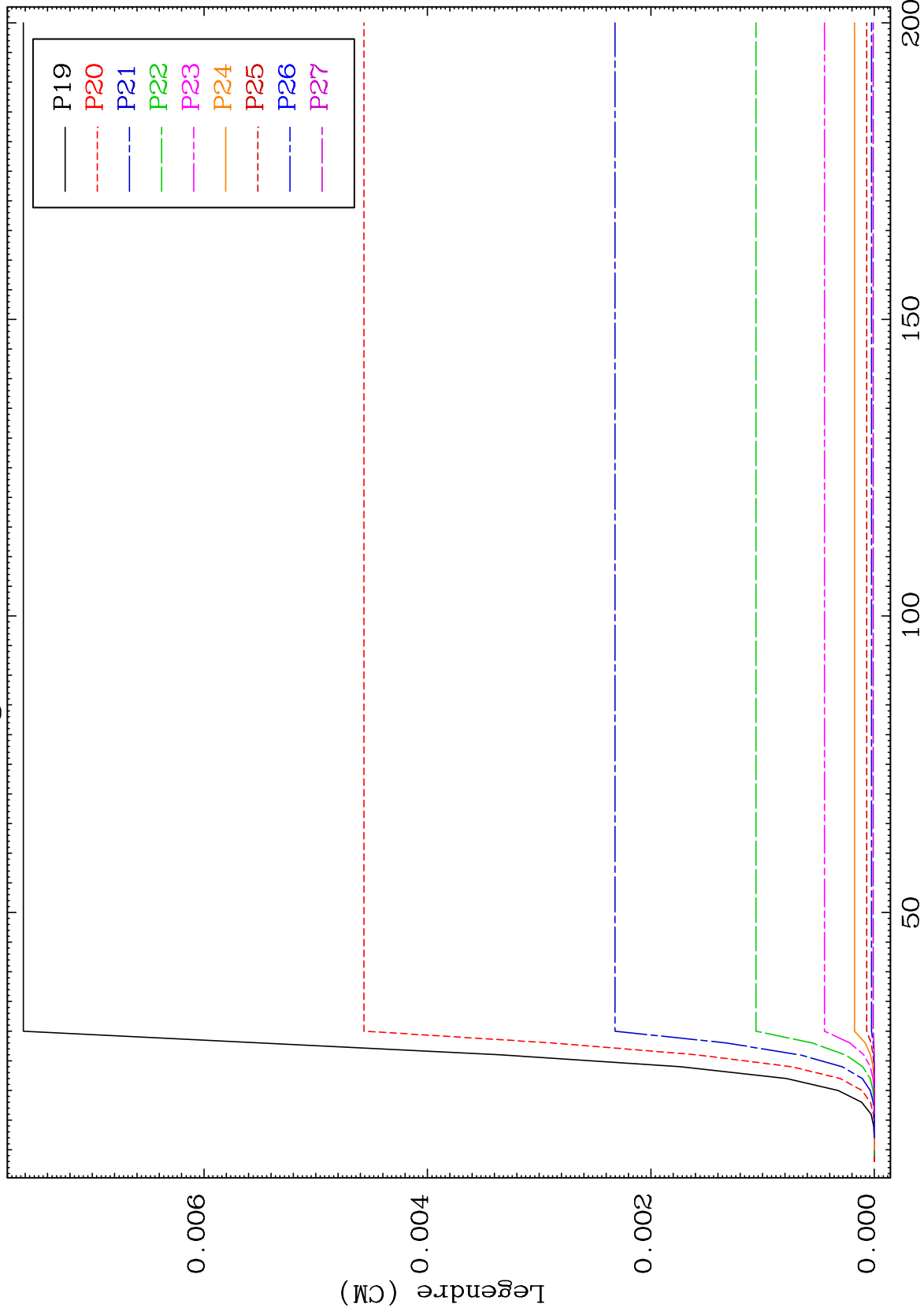
54-Xe-132



MAT 5449

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

54-Xe-132



104

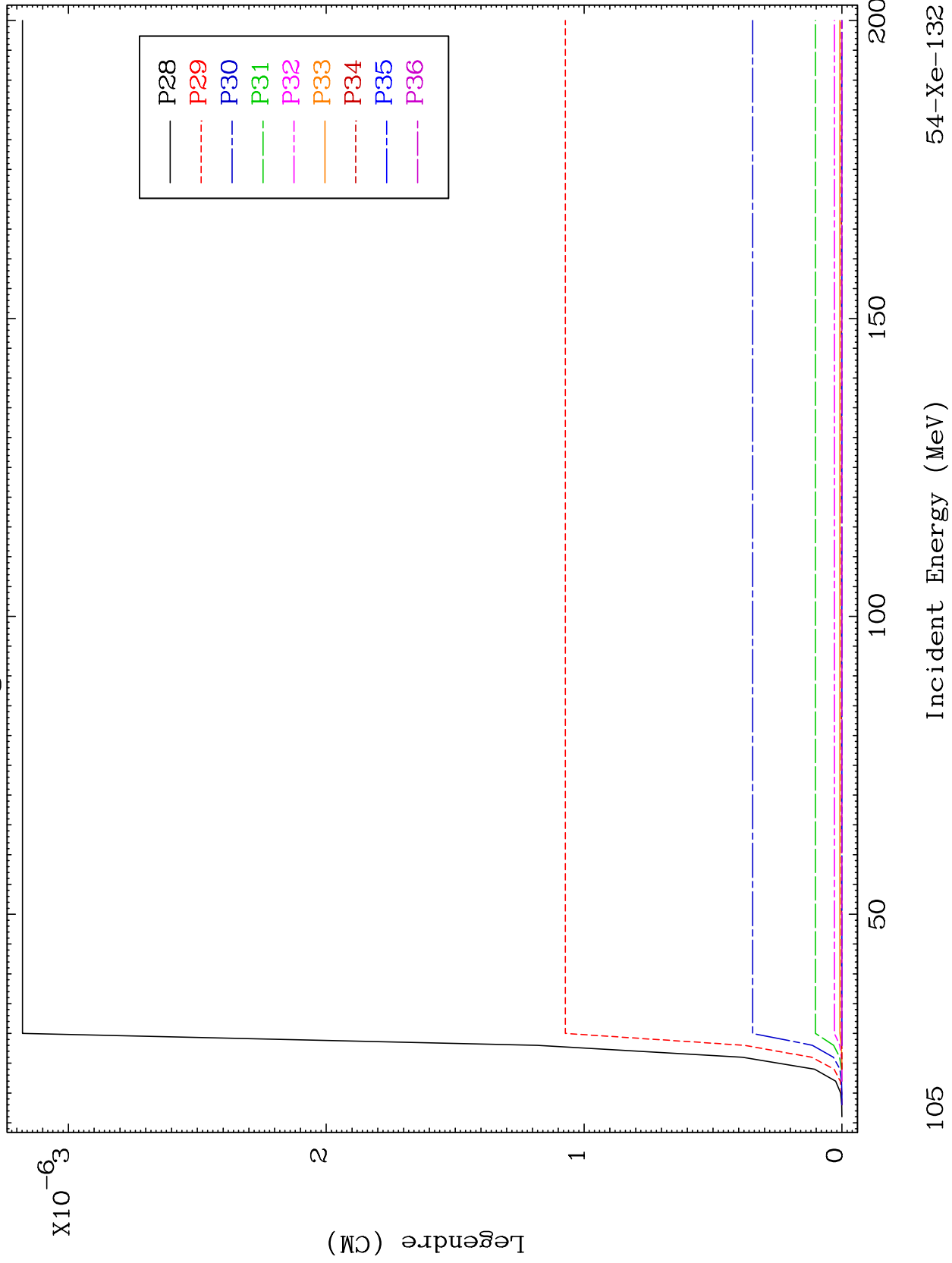
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

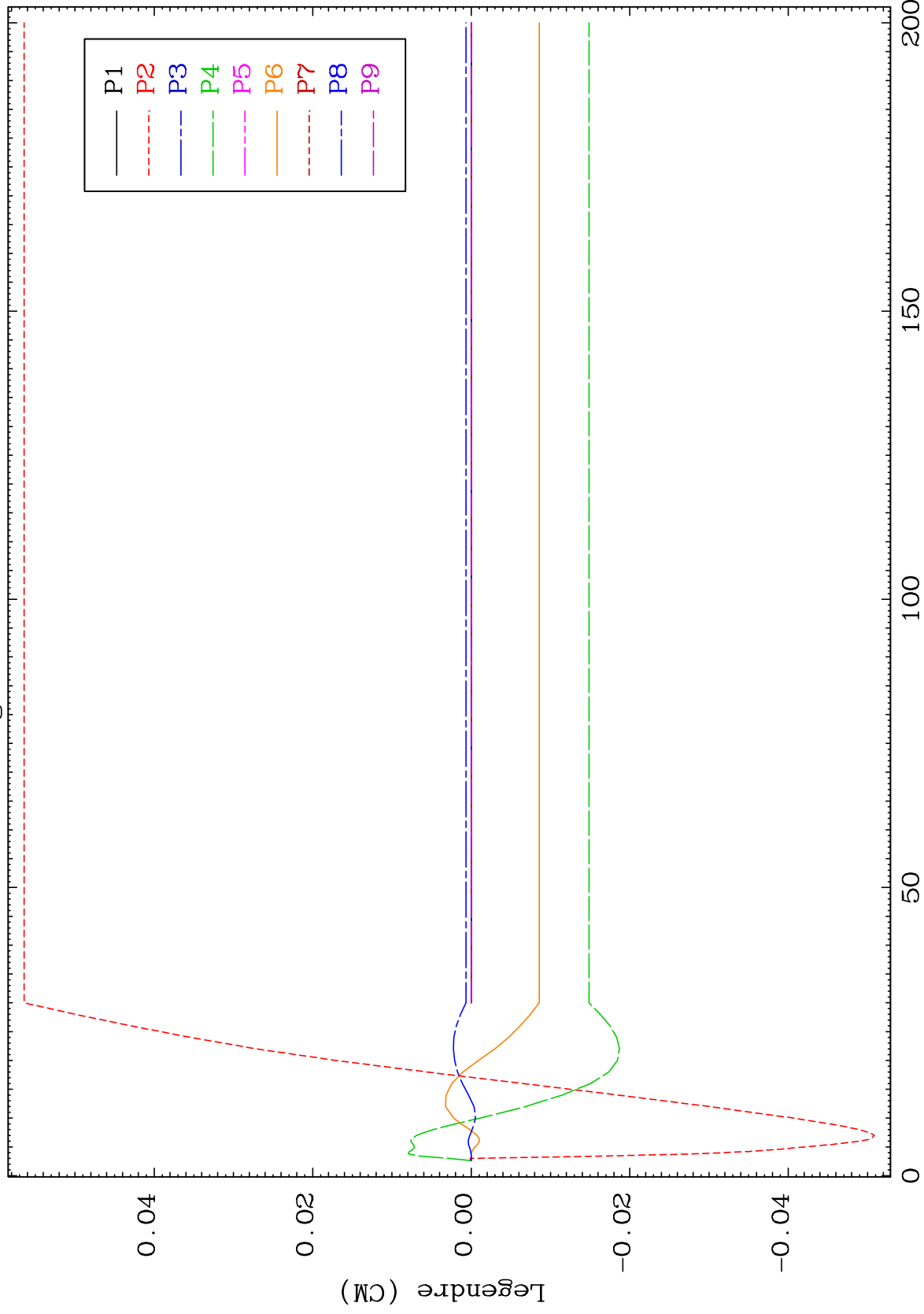
54-Xe-132



MAT 5449

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

54-Xe-132



54-Xe-132

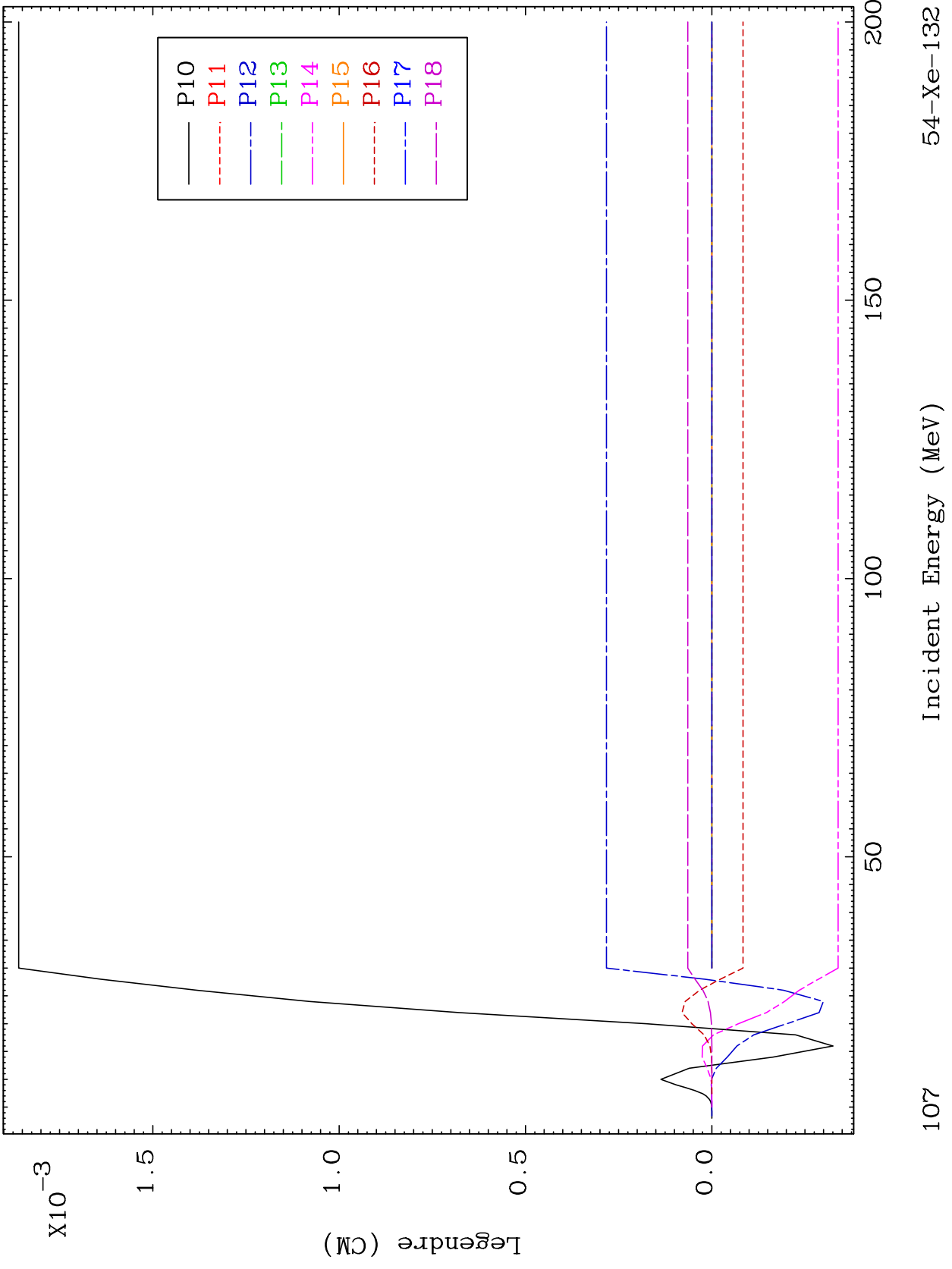
Incident Energy (MeV)

106

MAT 5449

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

54-Xe-132



107

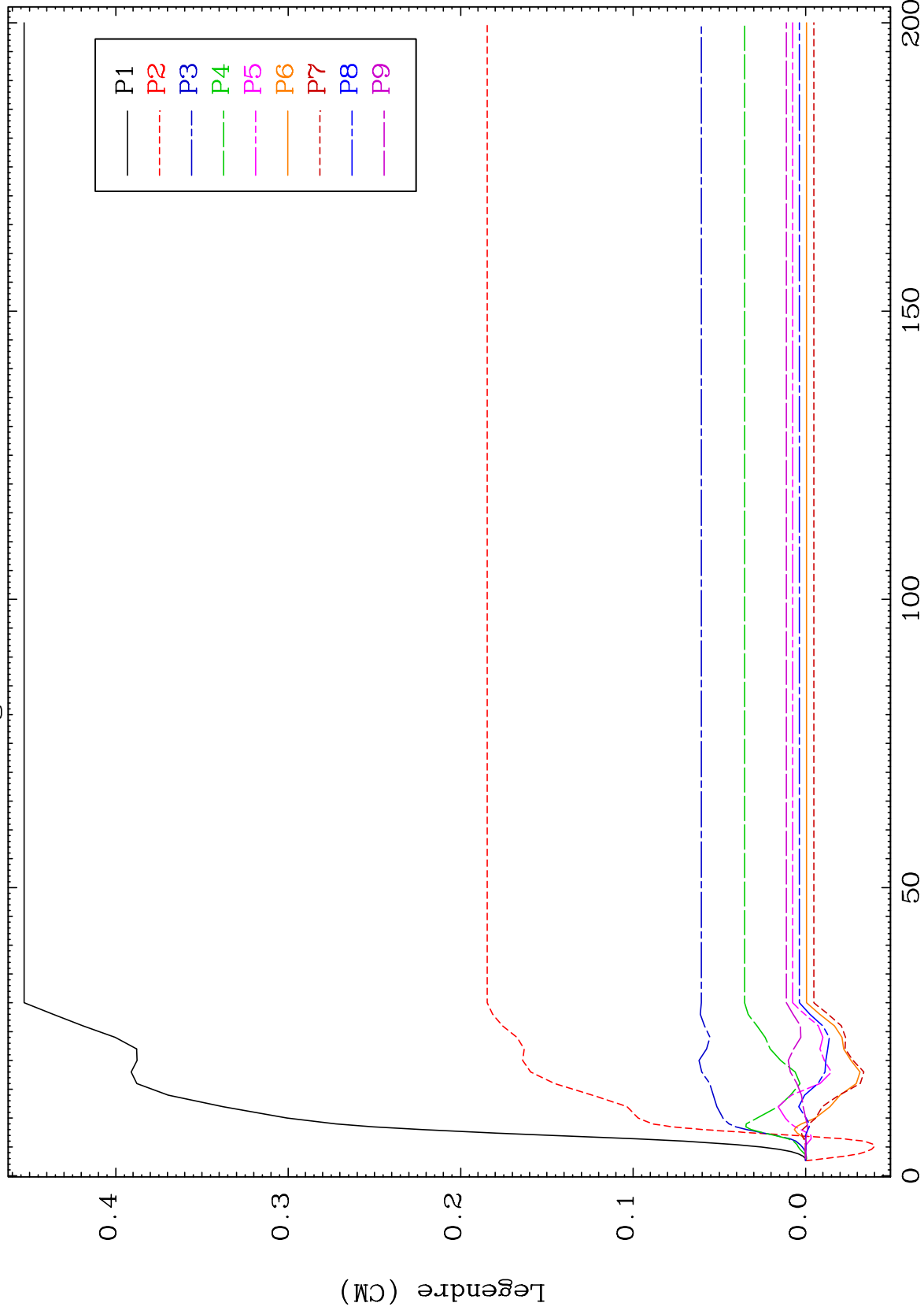
54-Xe-132



MAT 5449

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

54-Xe-132



109

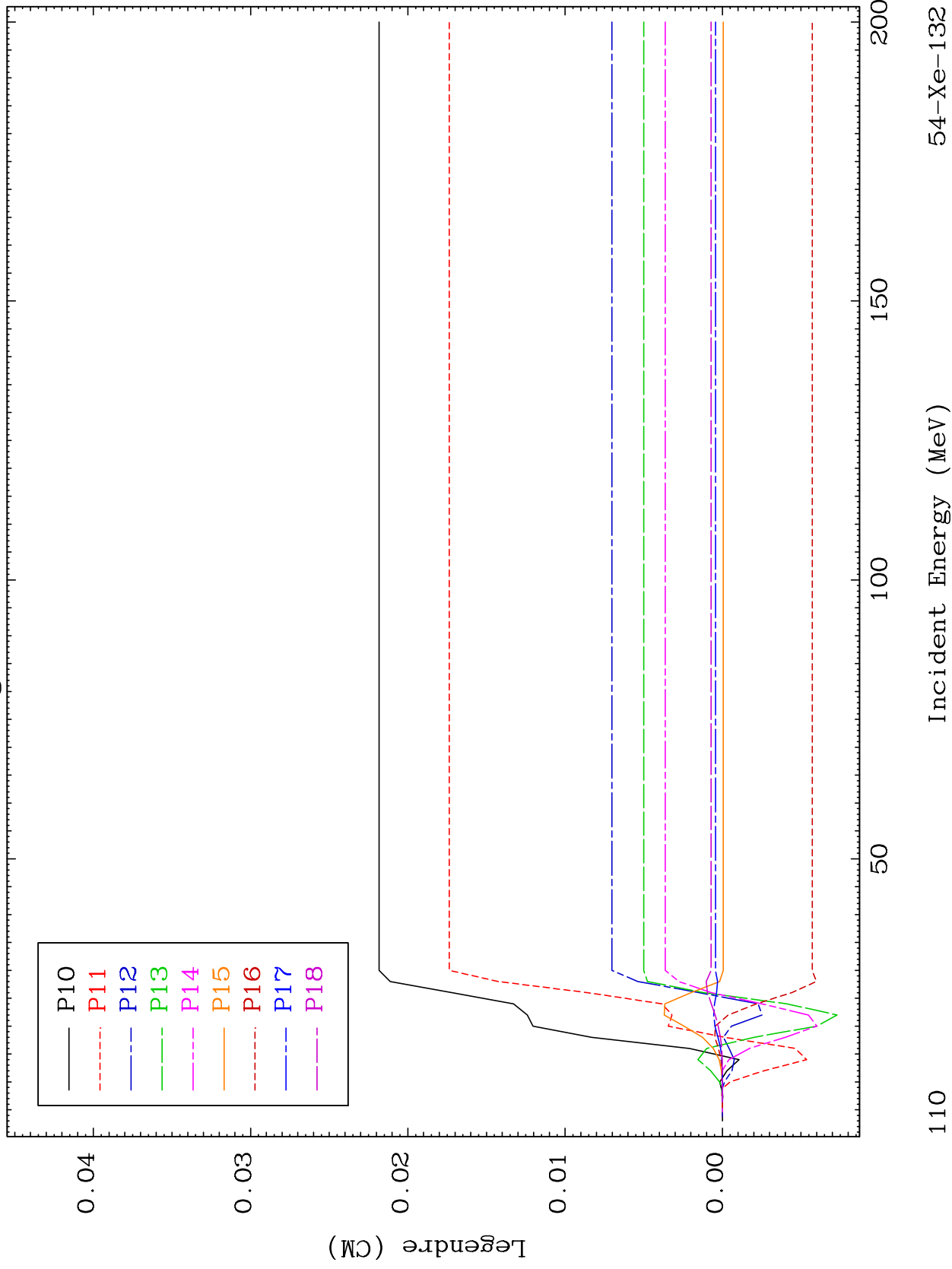
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

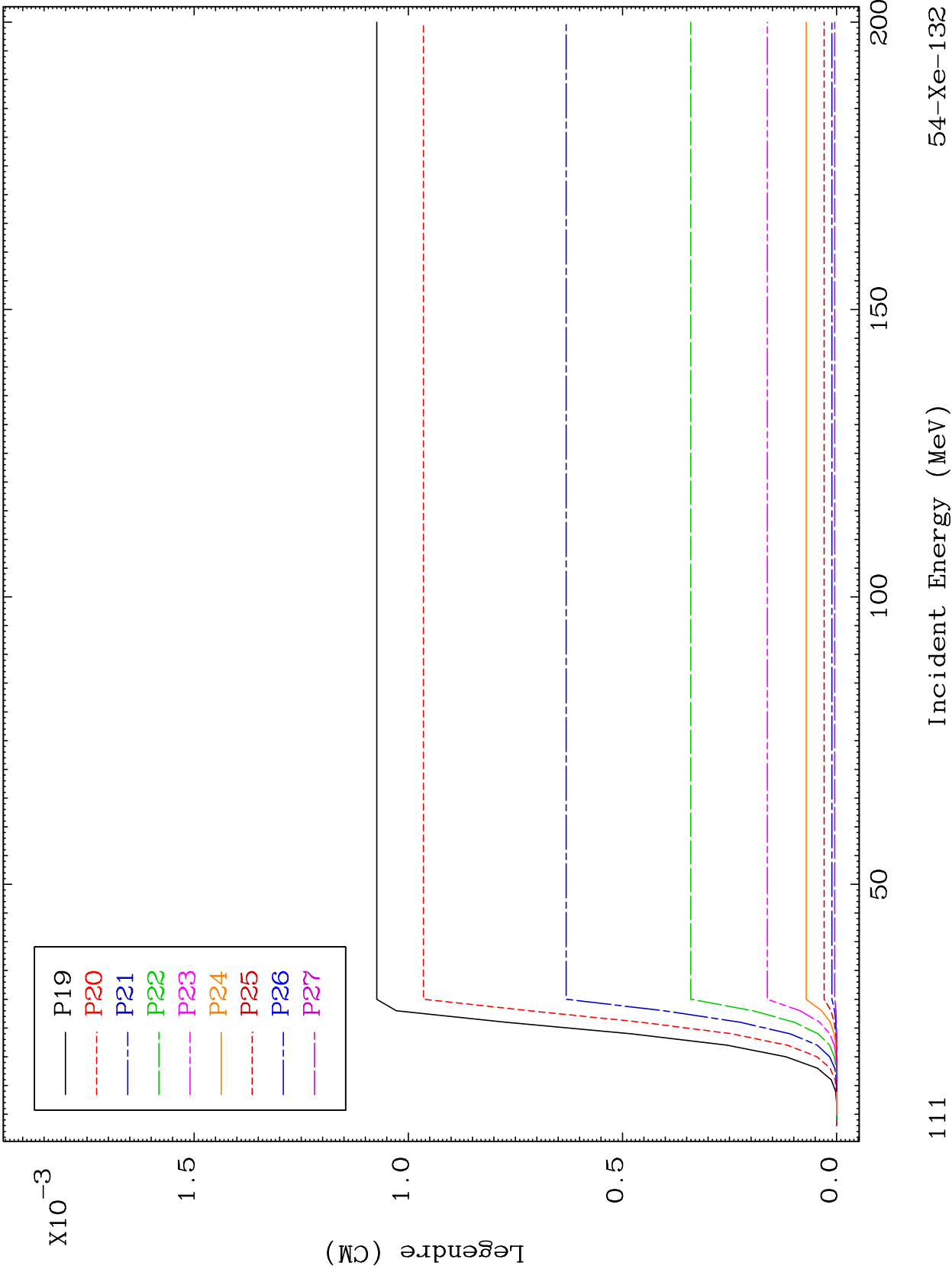
54-Xe-132



110

Incident Energy (MeV)

54-Xe-132

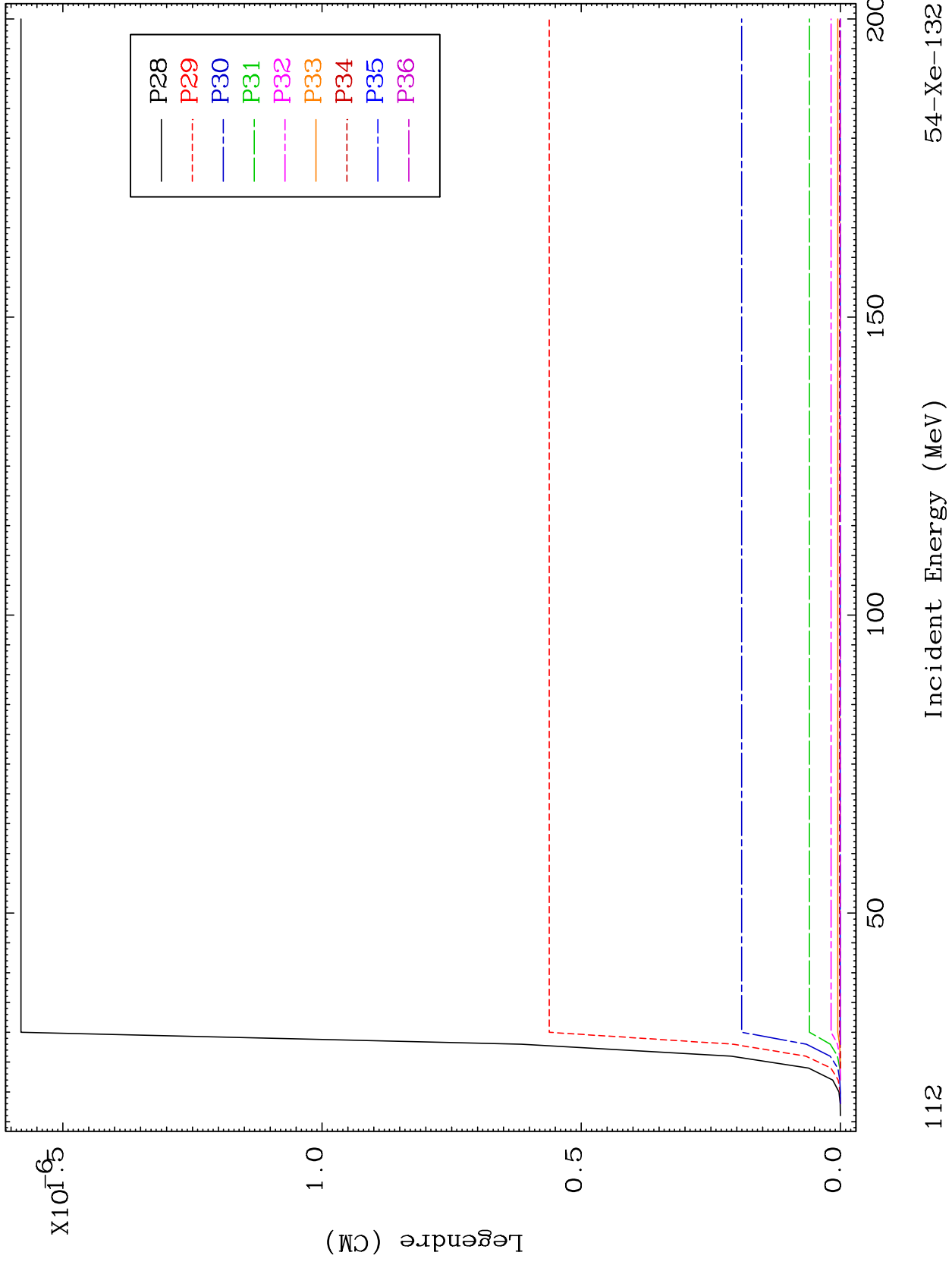




MAT 5449

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

54-Xe-132

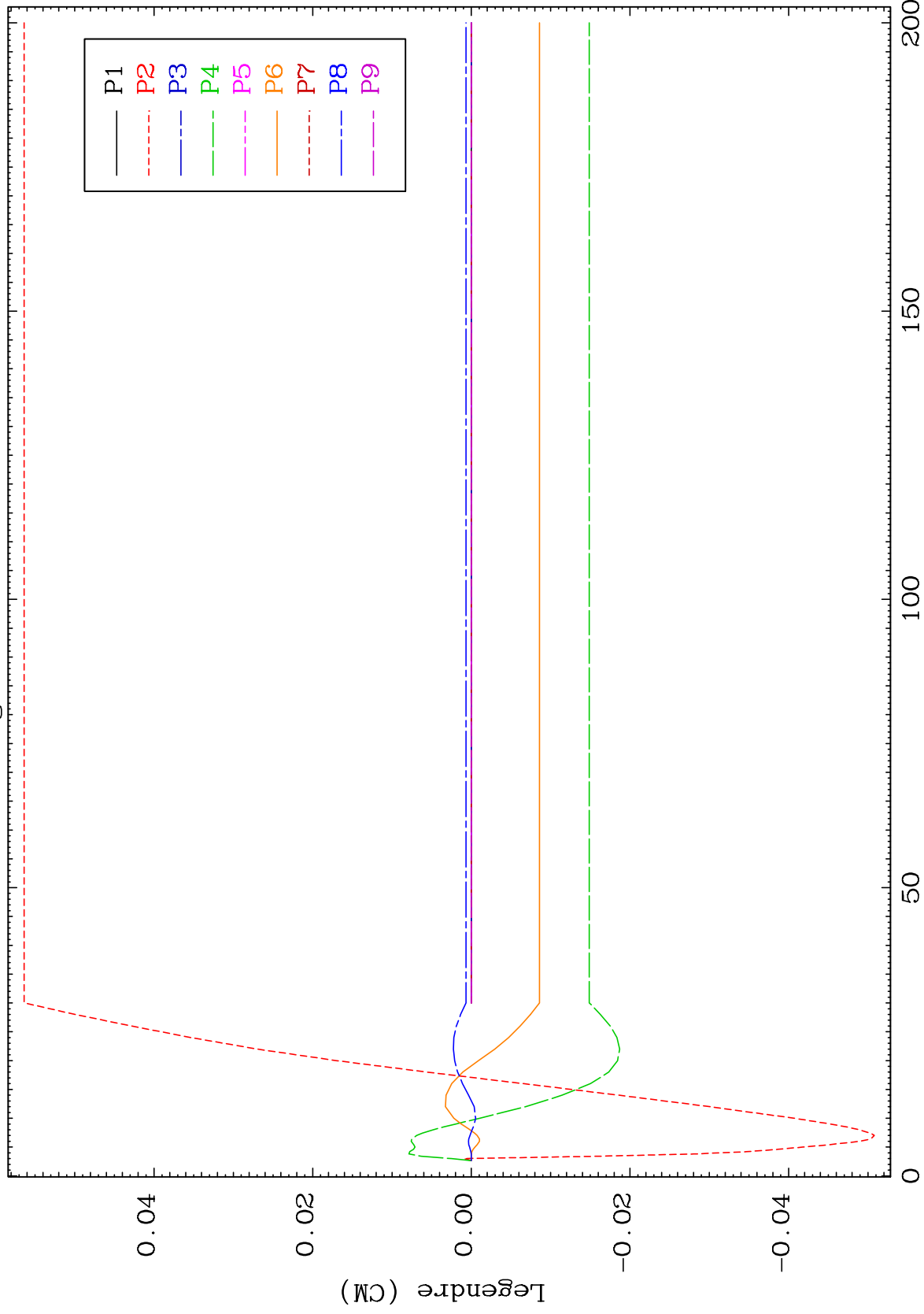


112

MAT 5449

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

54-Xe-132



113

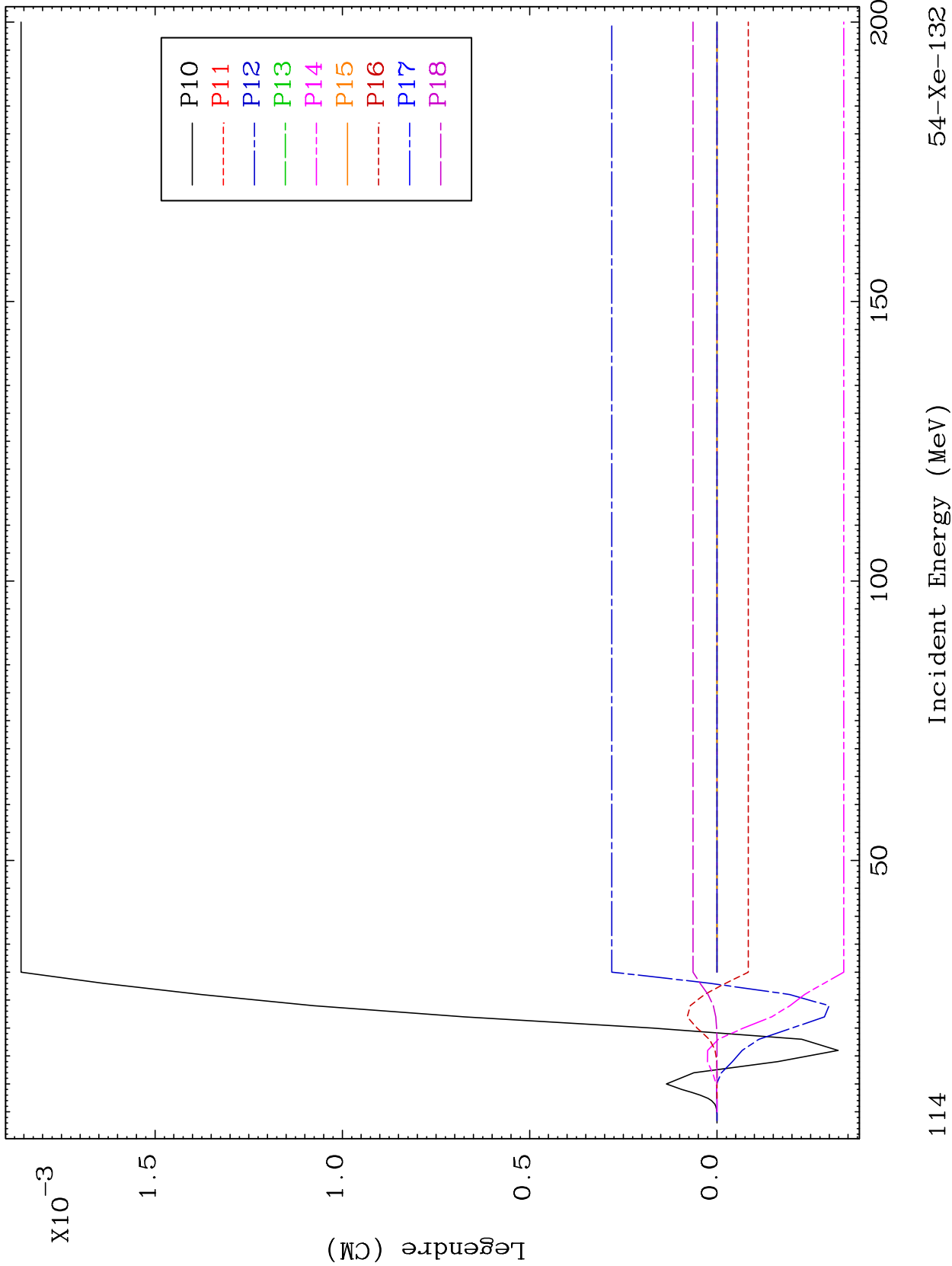
Incident Energy (MeV)

54-Xe-132

MAT 5449

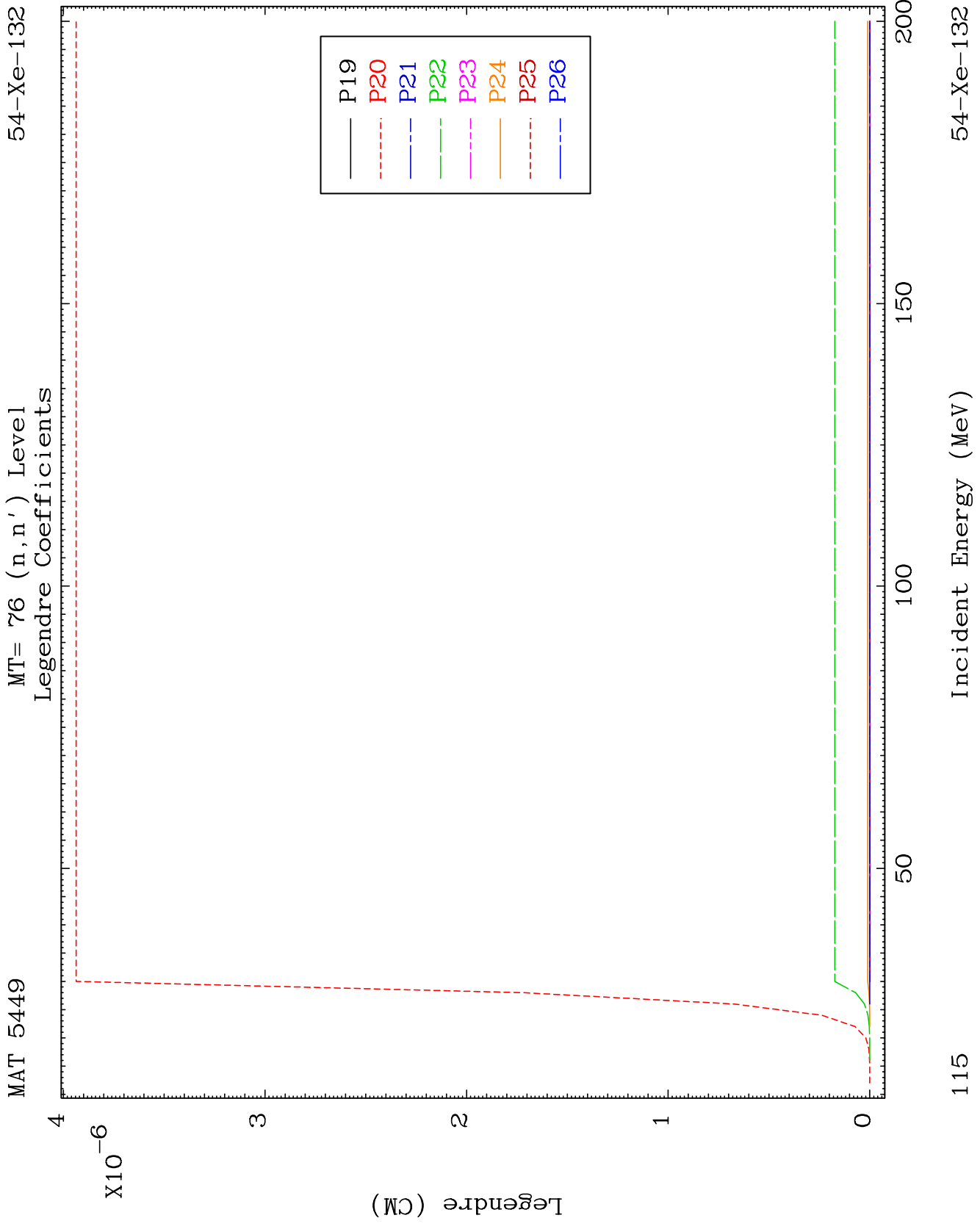
MT= 76 (n,n') Level  
Legendre Coefficients

54-Xe-132



114

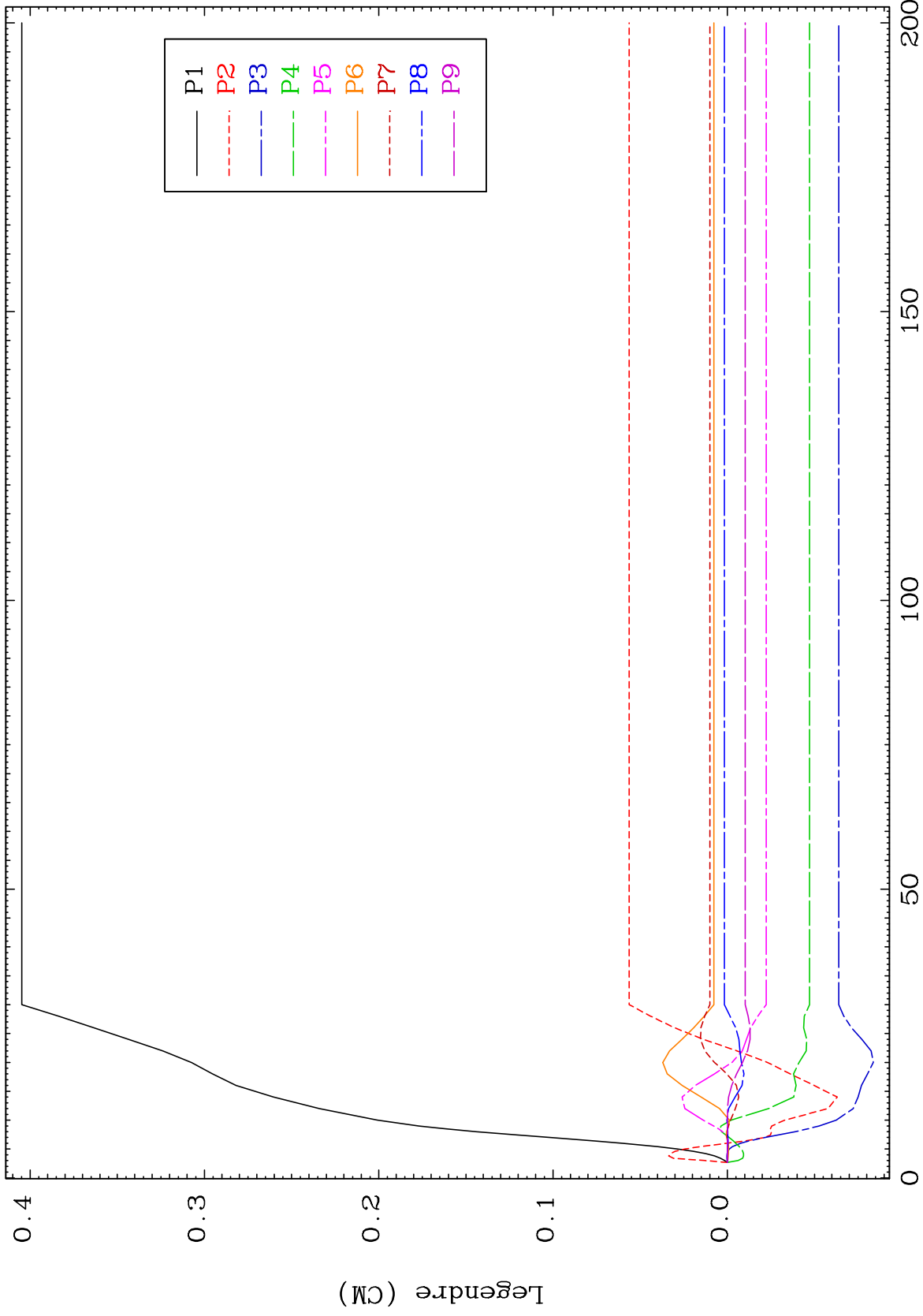
54-Xe-132



MAT 5449

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

54-Xe-132



116

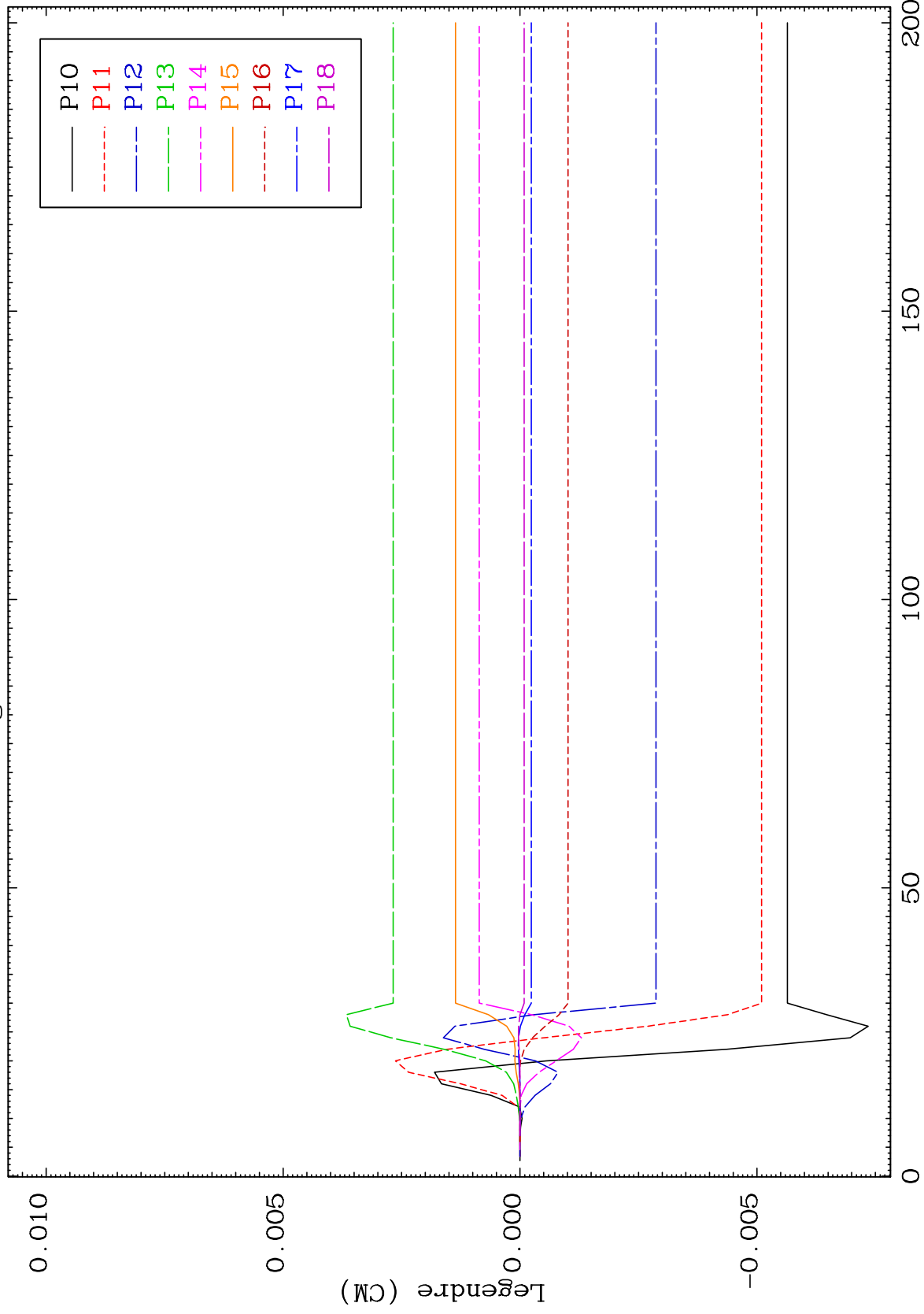
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



117

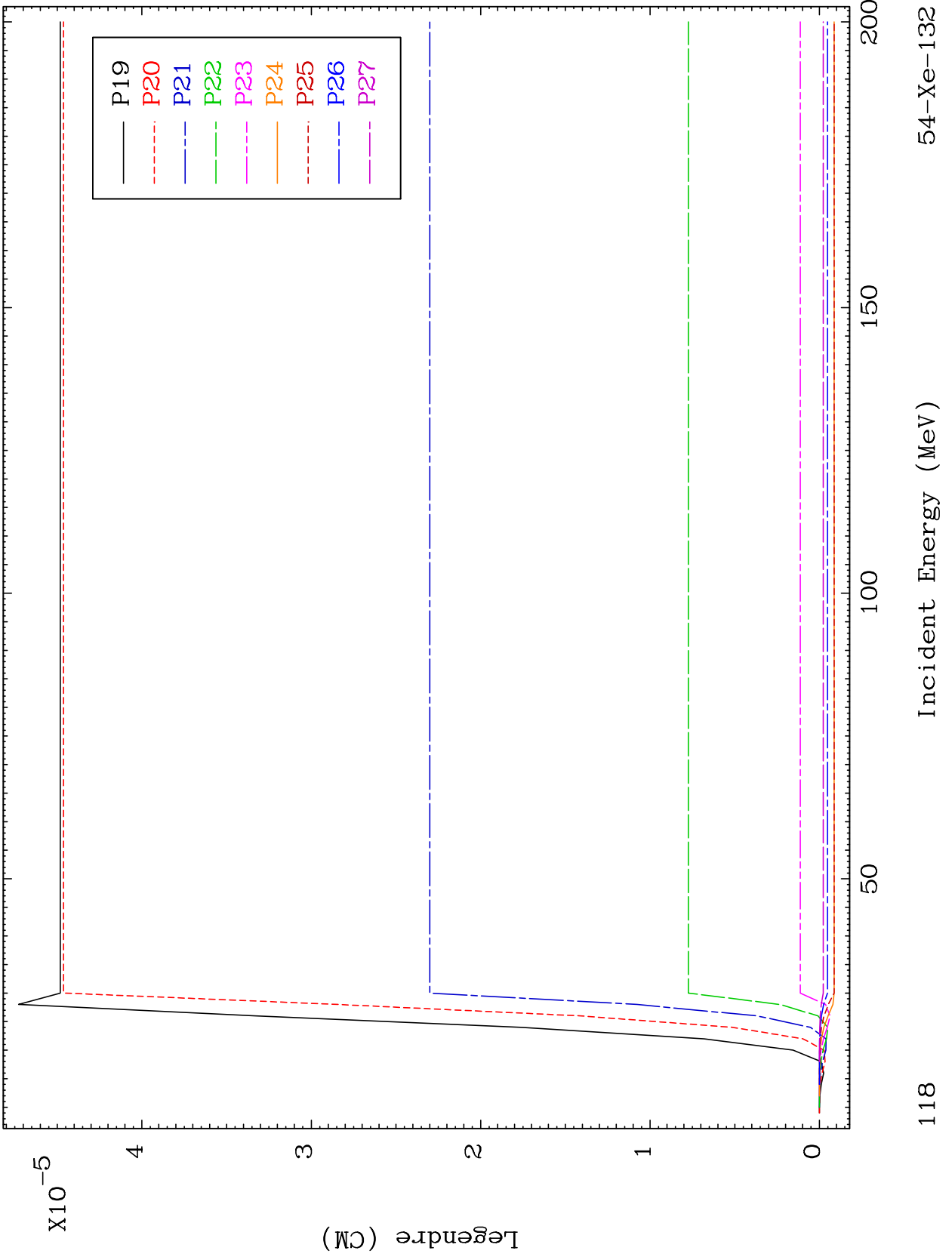
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



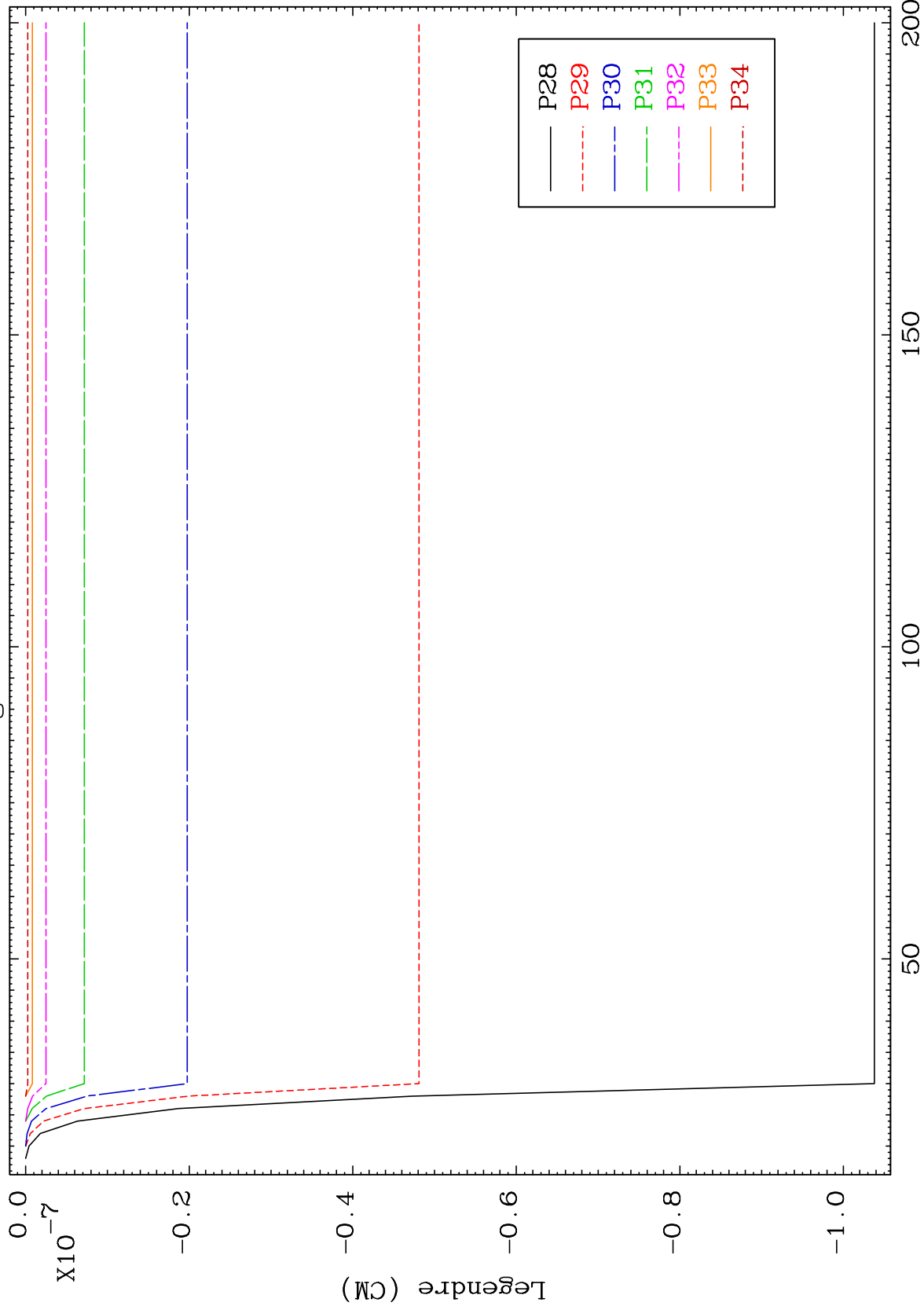
118

MAT 5449

MT= 77 (n,n') Level

54-Xe-132

Legendre Coefficients



119

Incident Energy (MeV)

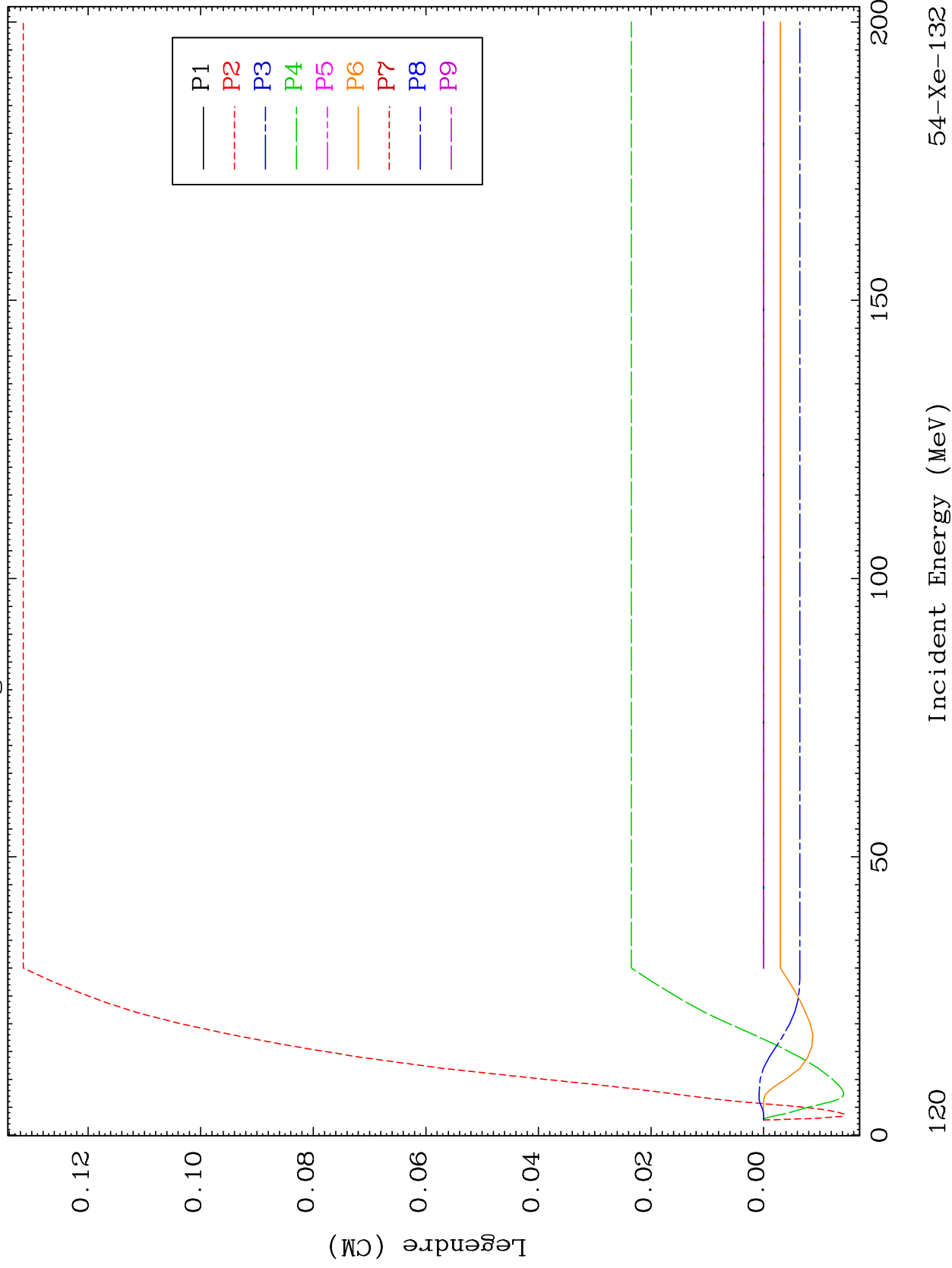
54-Xe-132



MAT 5449

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

54-Xe-132

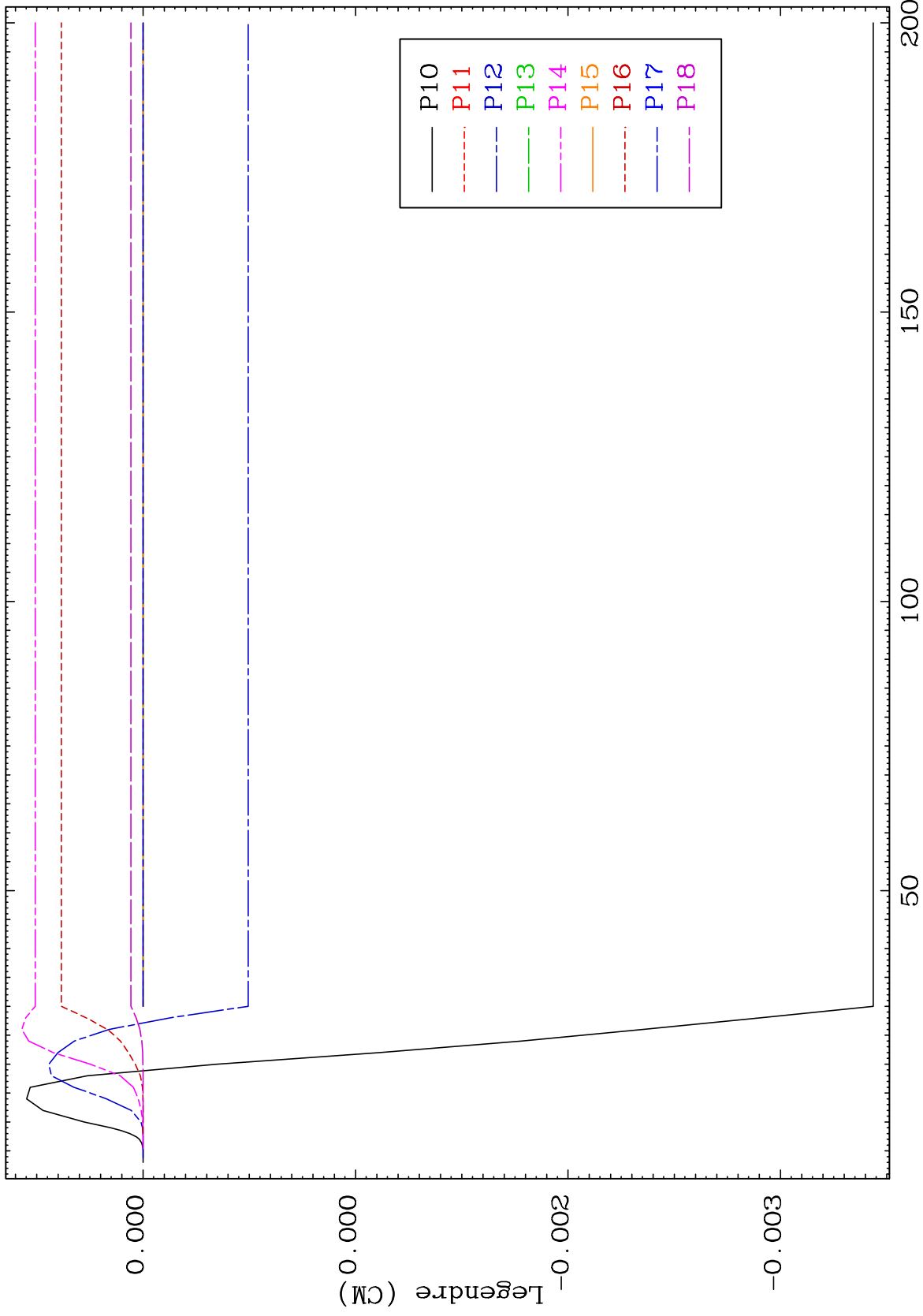


54-Xe-132

MAT 5449

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

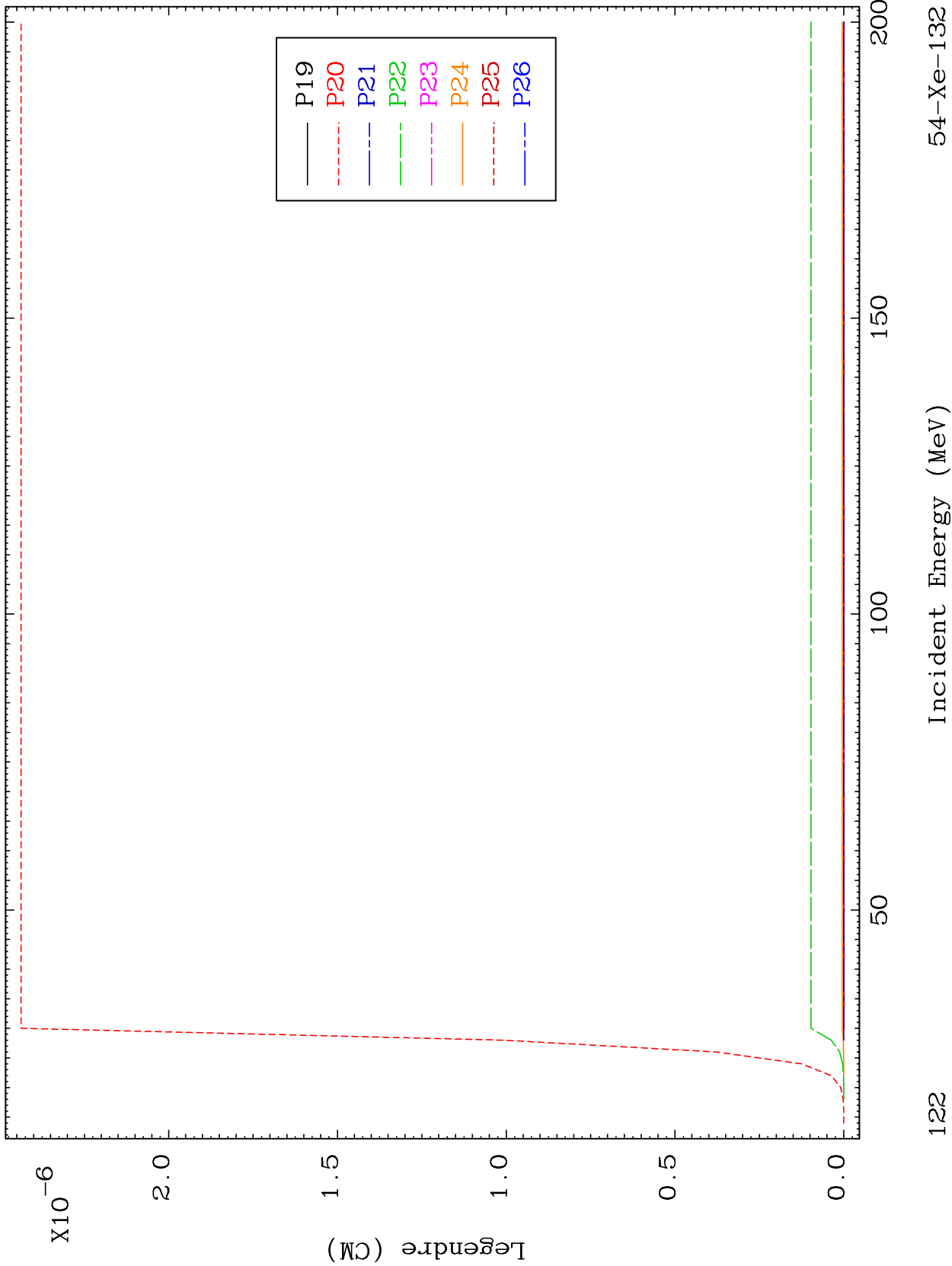
54-Xe-132



MAT 5449

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

54-Xe-132

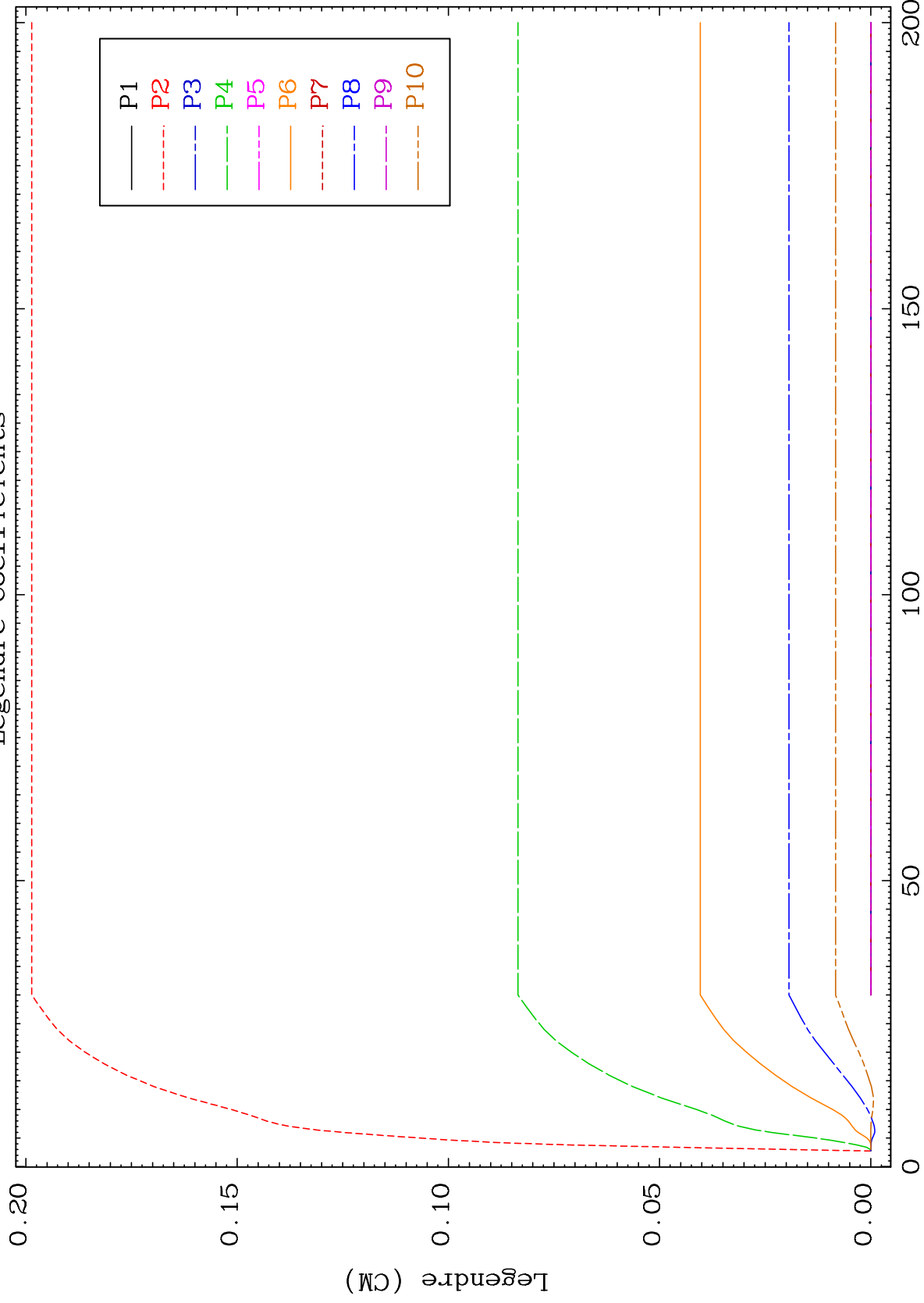


122

MAT 5449

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

54-Xe-132



123

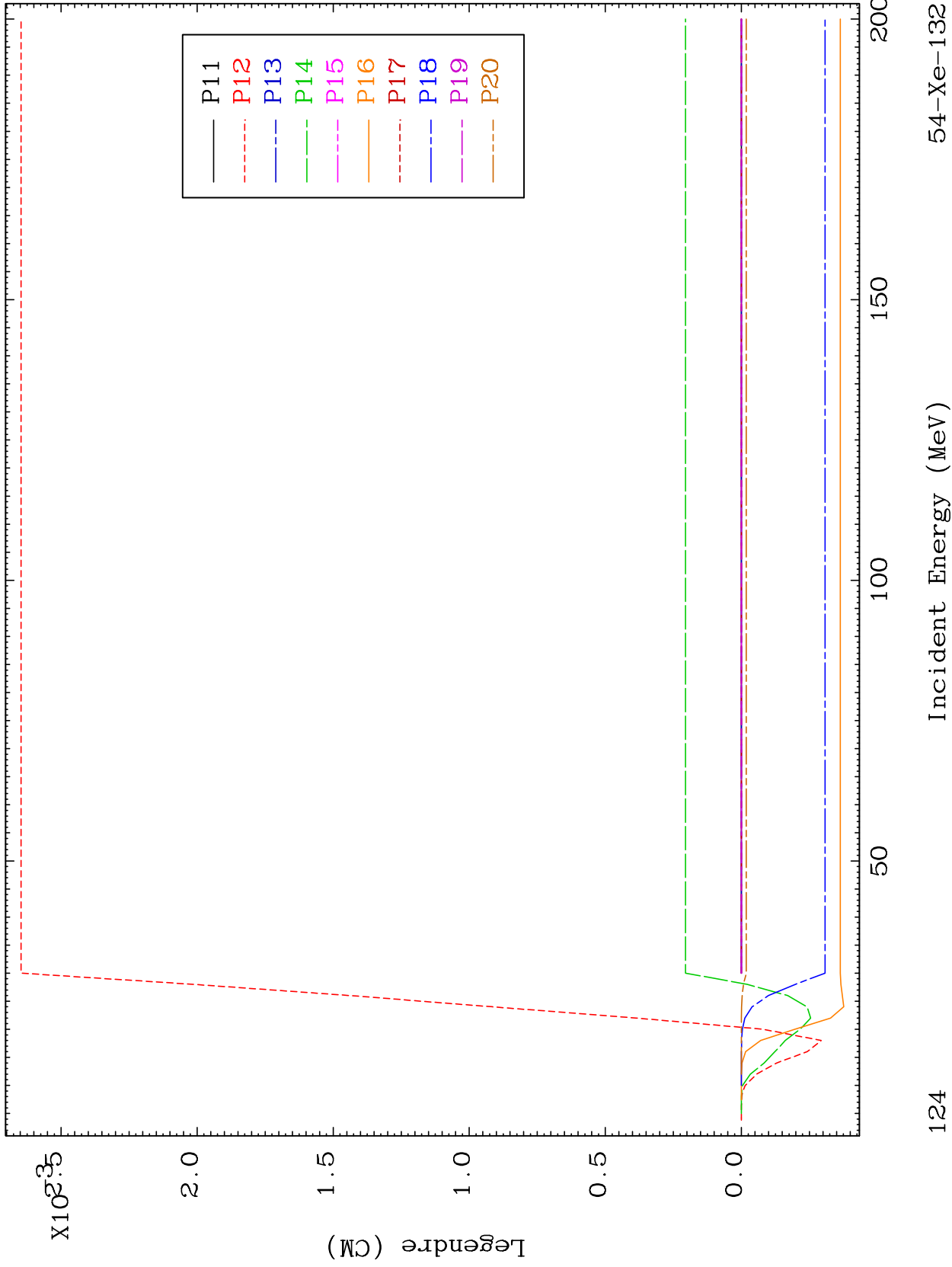
Incident Energy (MeV)

54-Xe-132

MAT 5449

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

54-Xe-132



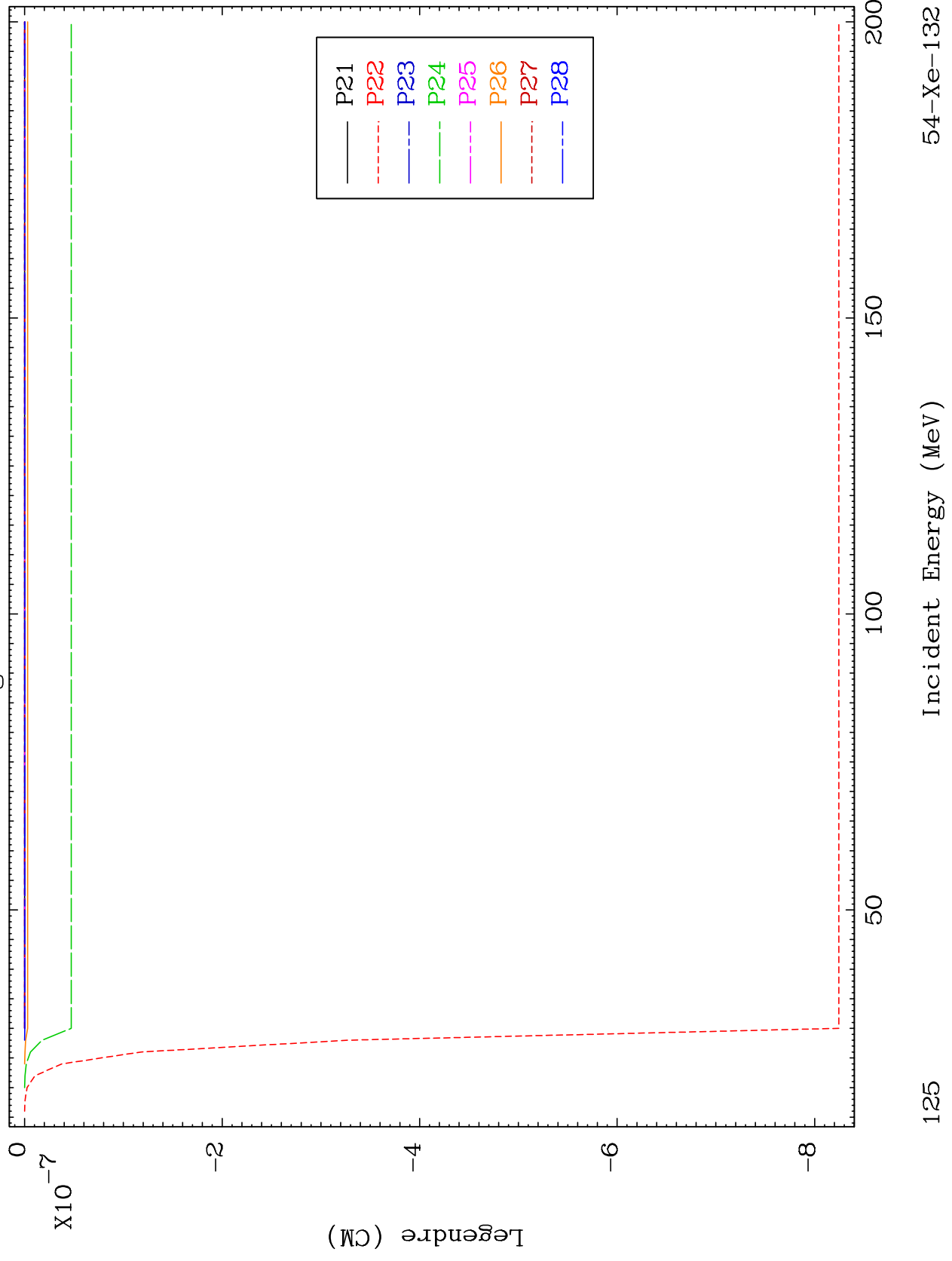
124

54-Xe-132

MAT 5449

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

54-Xe-132



125

Incident Energy (MeV)

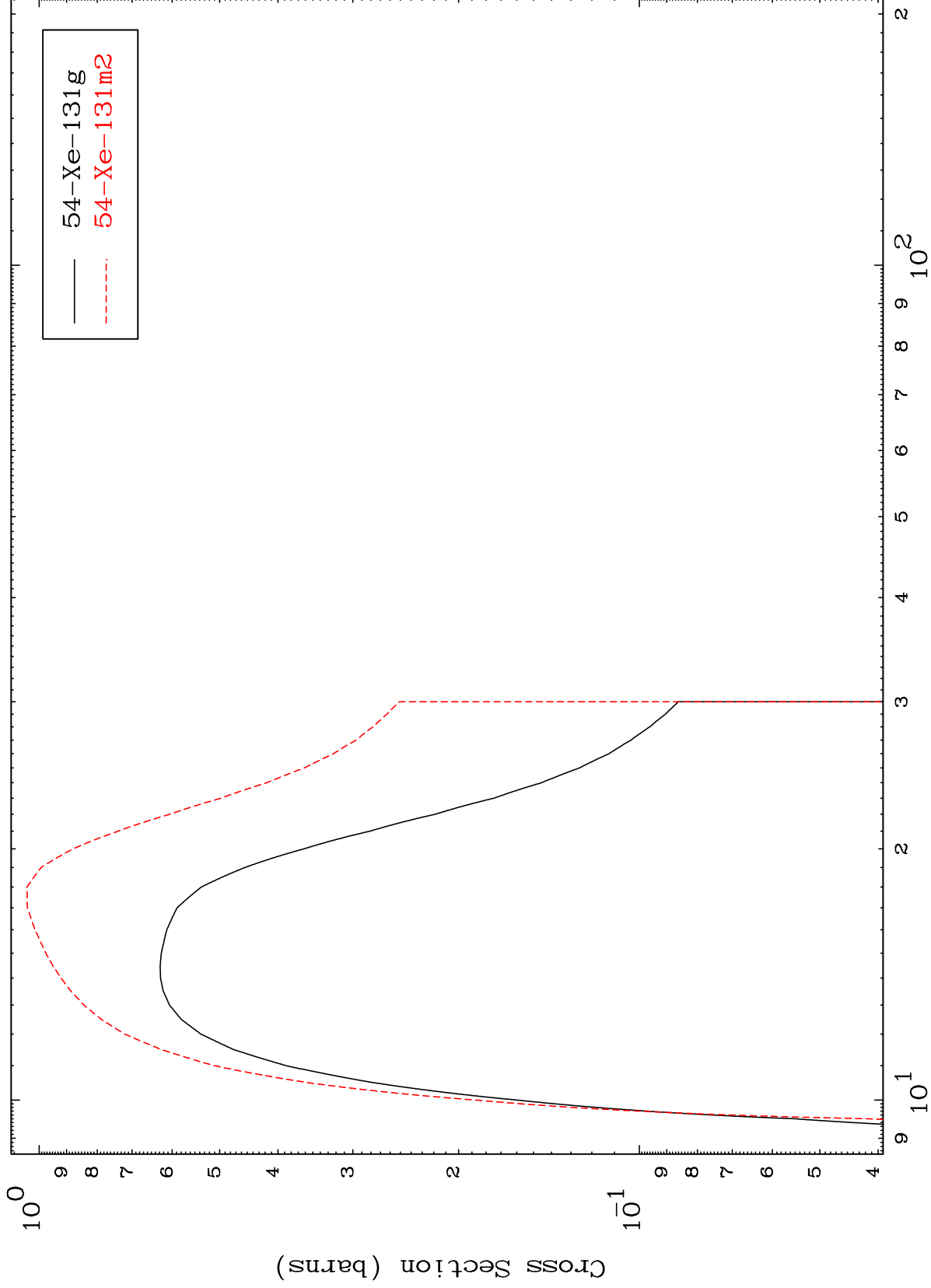
54-Xe-132

MAT 5449

(n,2n)

54-Xe-132

Radionuclide Production Cross Section



126

Incident Energy (MeV)

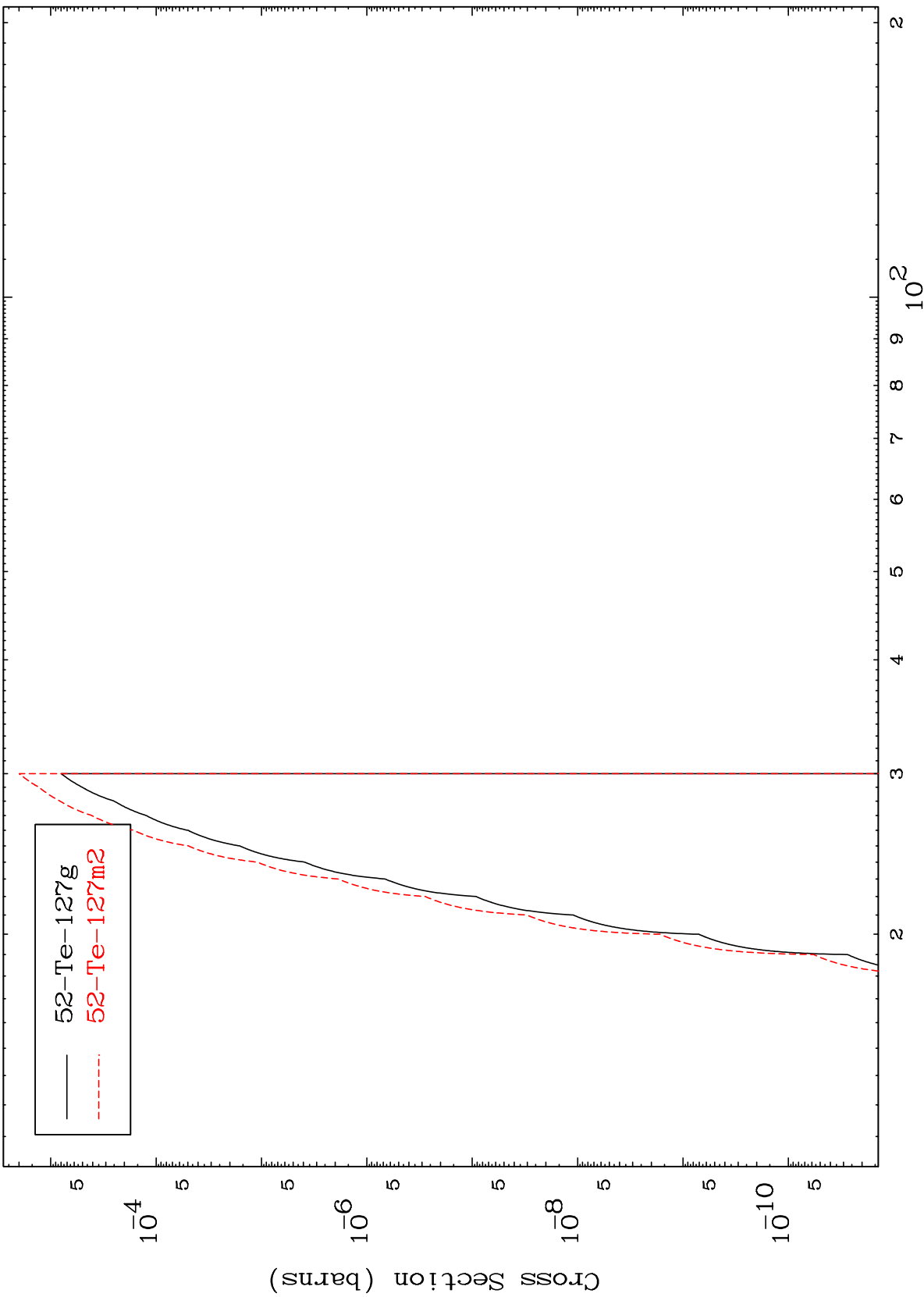
54-Xe-132

MAT 5449

(n,2n)  $\alpha$

54-Xe-132

Radionuclide Production Cross Section

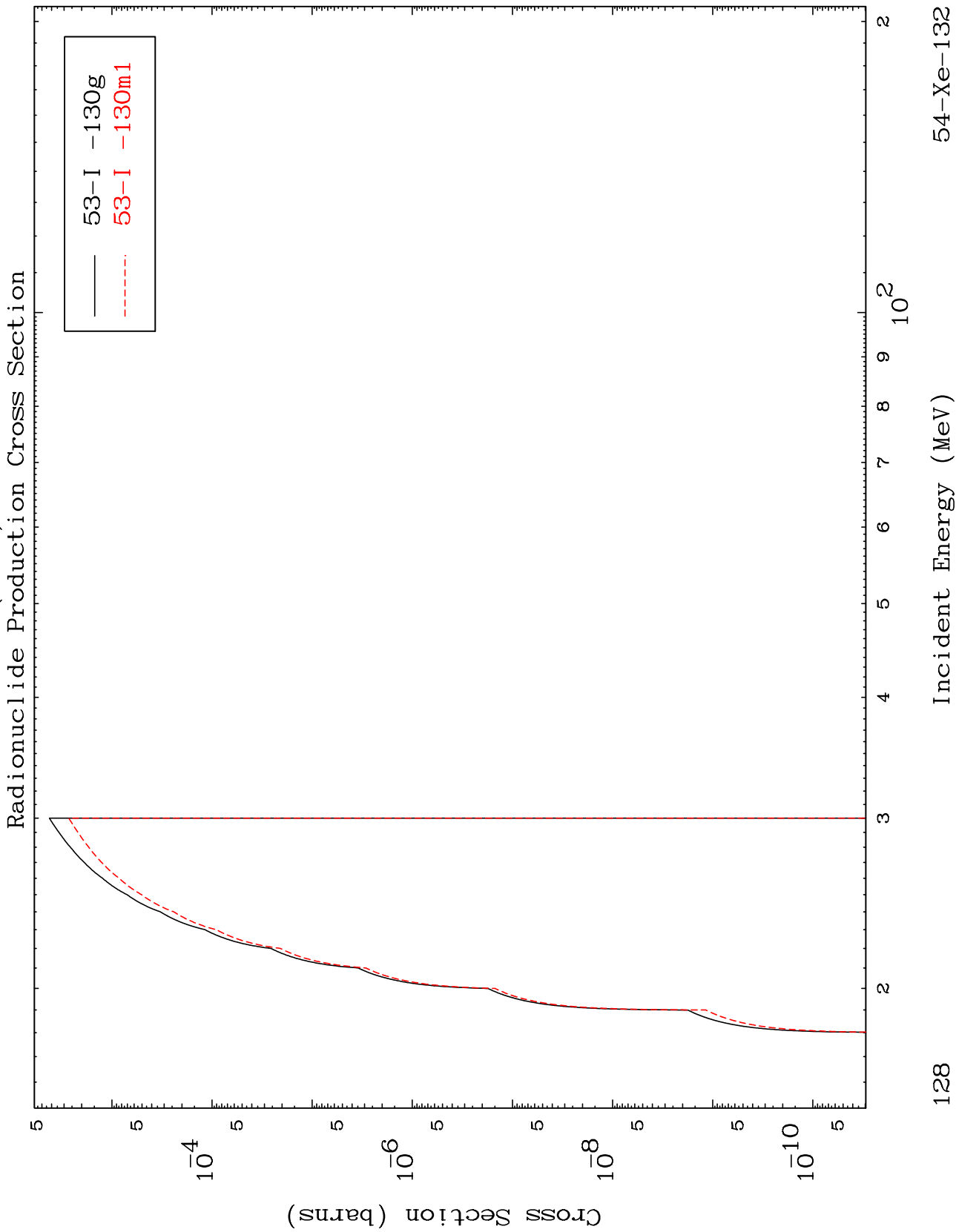


127

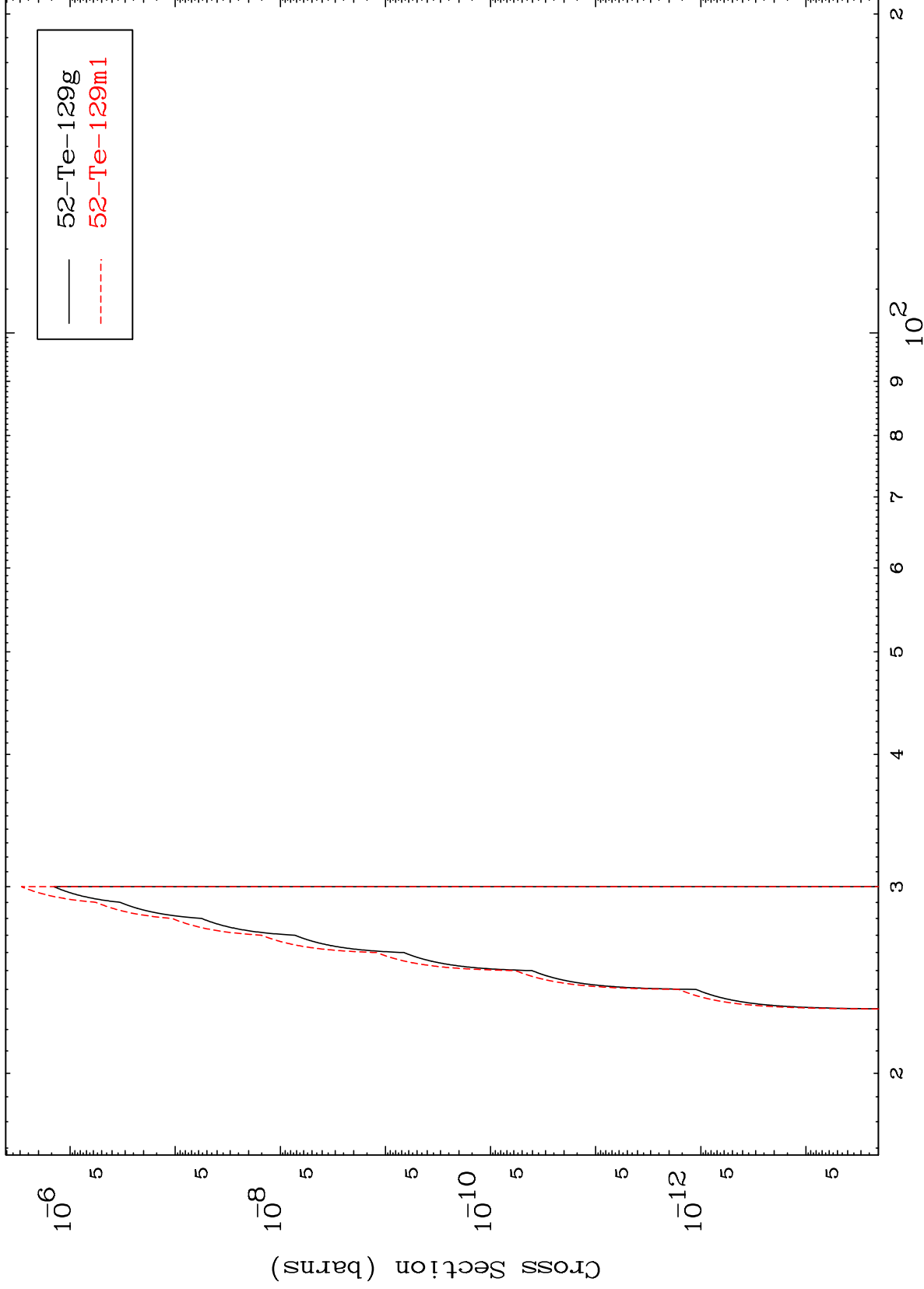
Incident Energy (MeV)

54-Xe-132





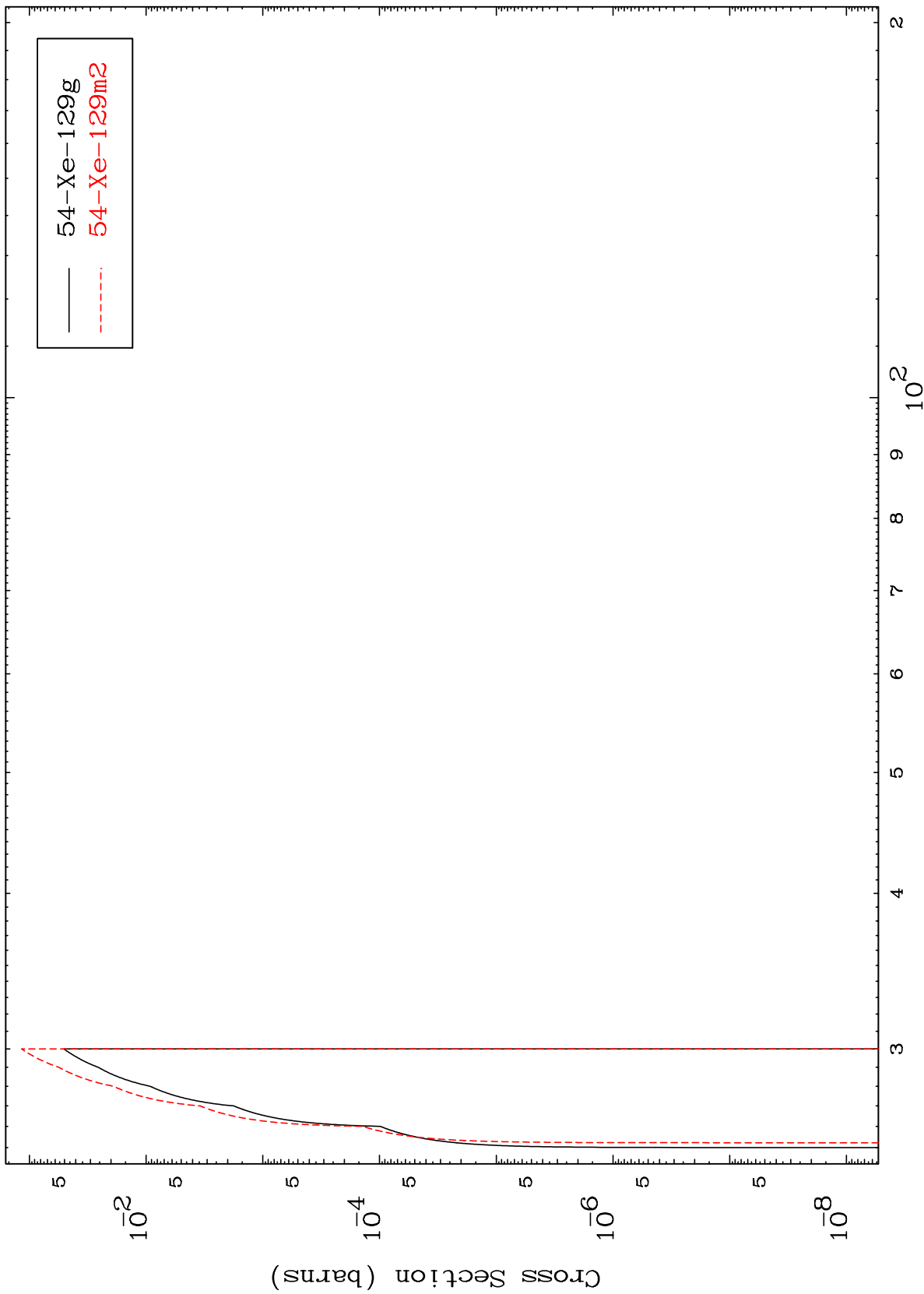
Radionuclide Production Cross Section



MAT 5449

54-Xe-132

(n,4n)  
Radionuclide Production Cross Section



130

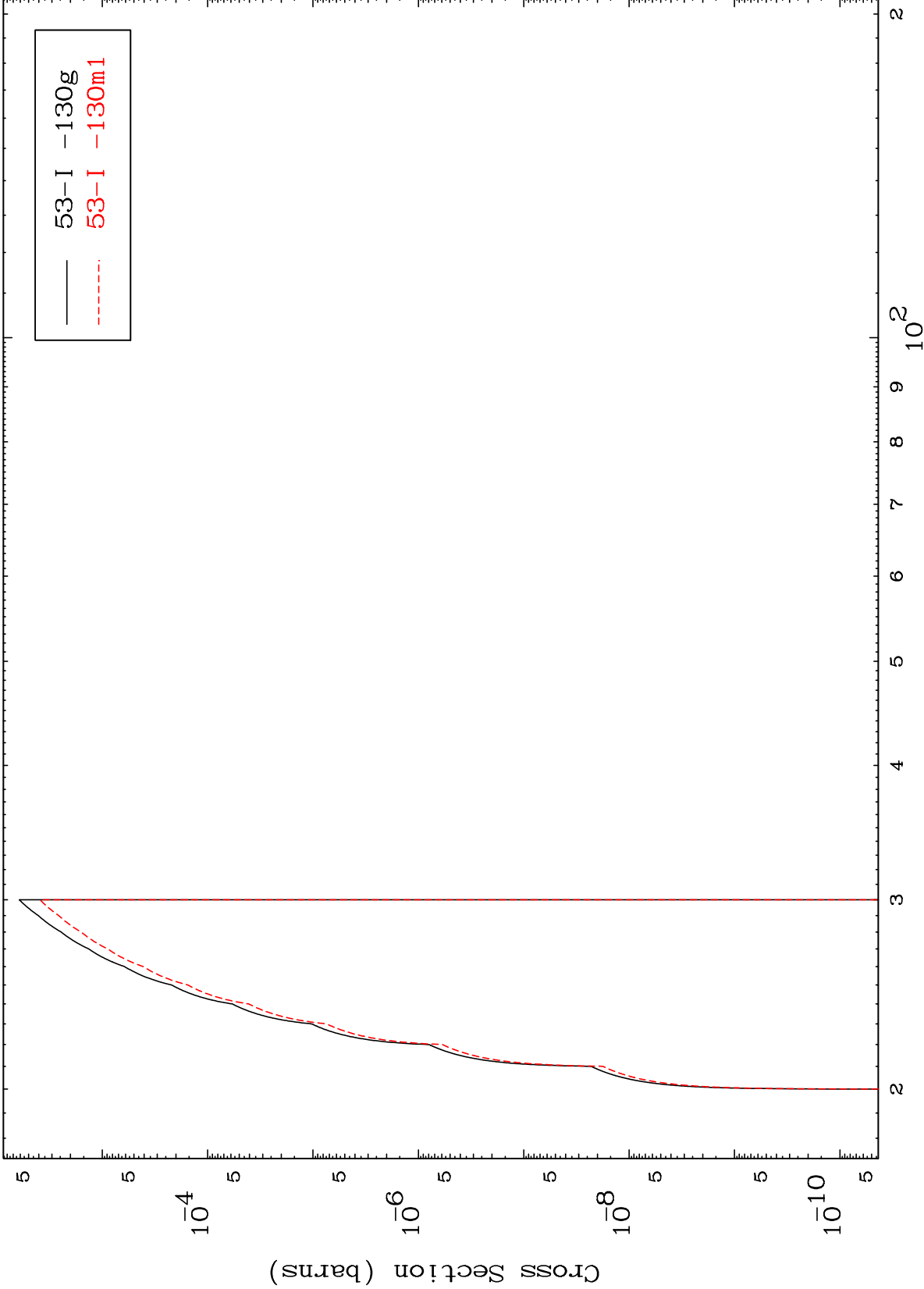
54-Xe-132

MAT 5449

(n,2n) p

54-Xe-132

Radionuclide Production Cross Section



53-I -130g  
53-I -130m1

131

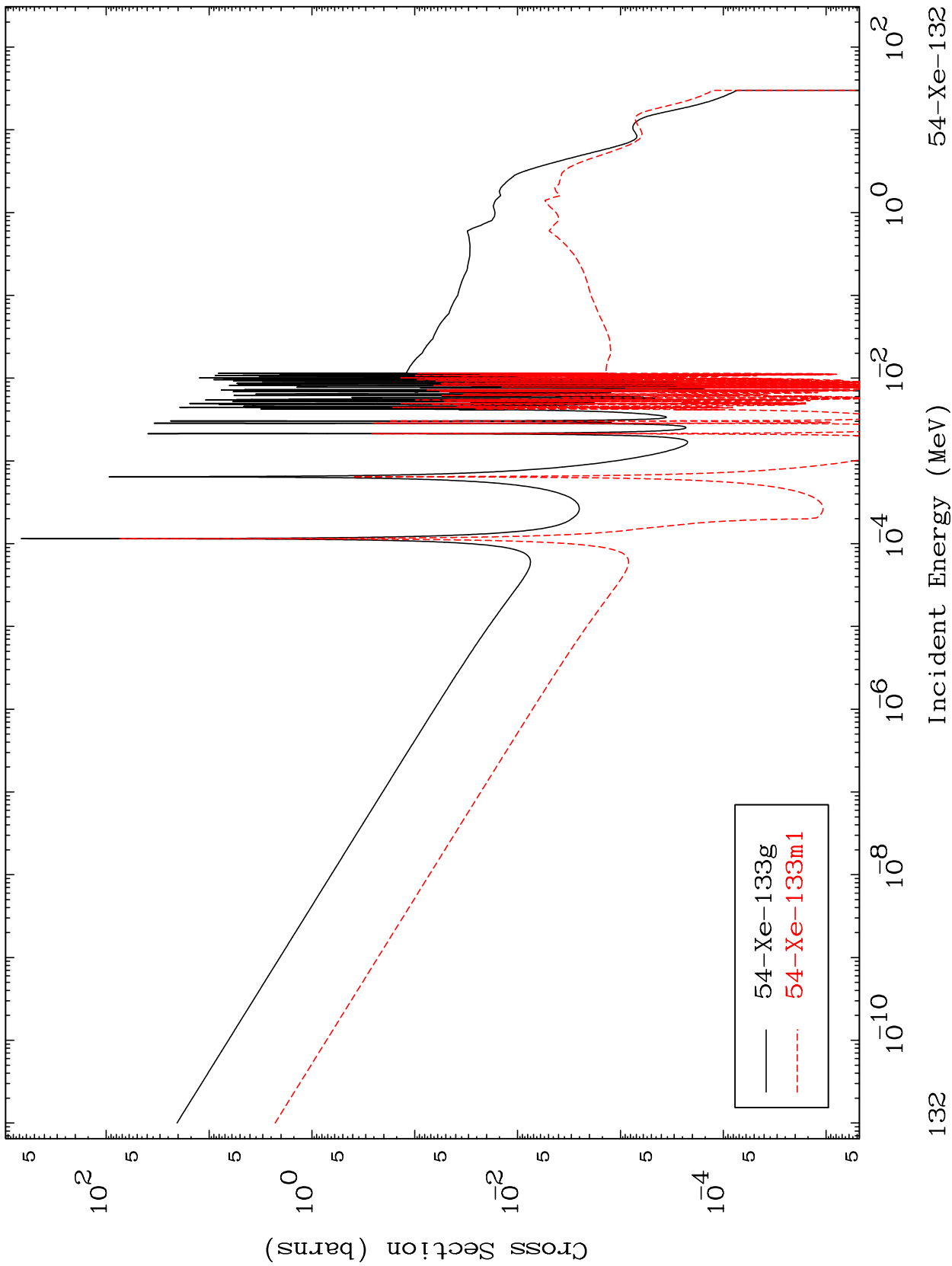
Incident Energy (MeV)

54-Xe-132

MAT 5449

54-Xe-132

$(n, \gamma)$   
Radionuclide Production Cross Section

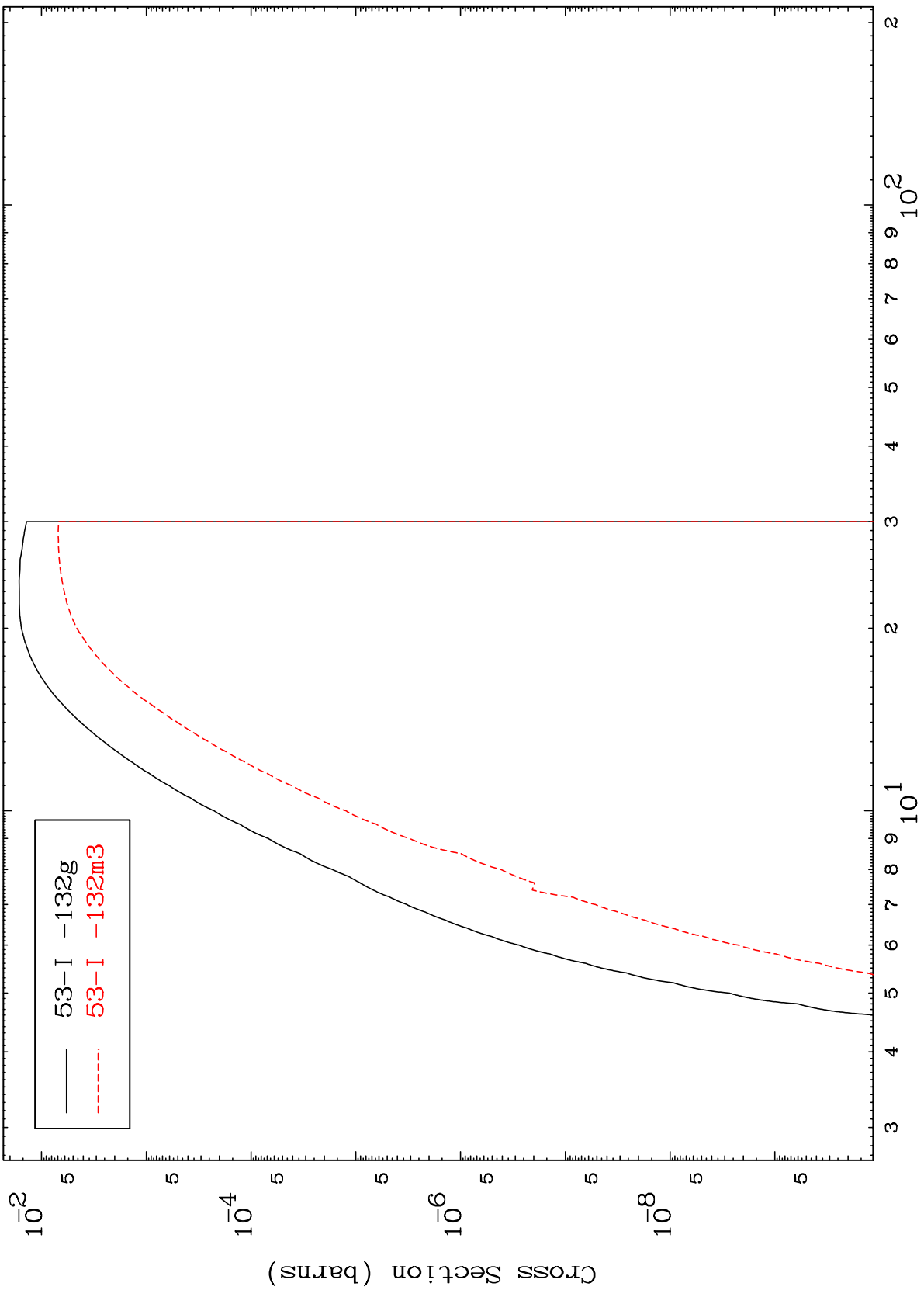


132

MAT 5449

54-Xe-132

(n,p)  
Radionuclide Production Cross Section



133

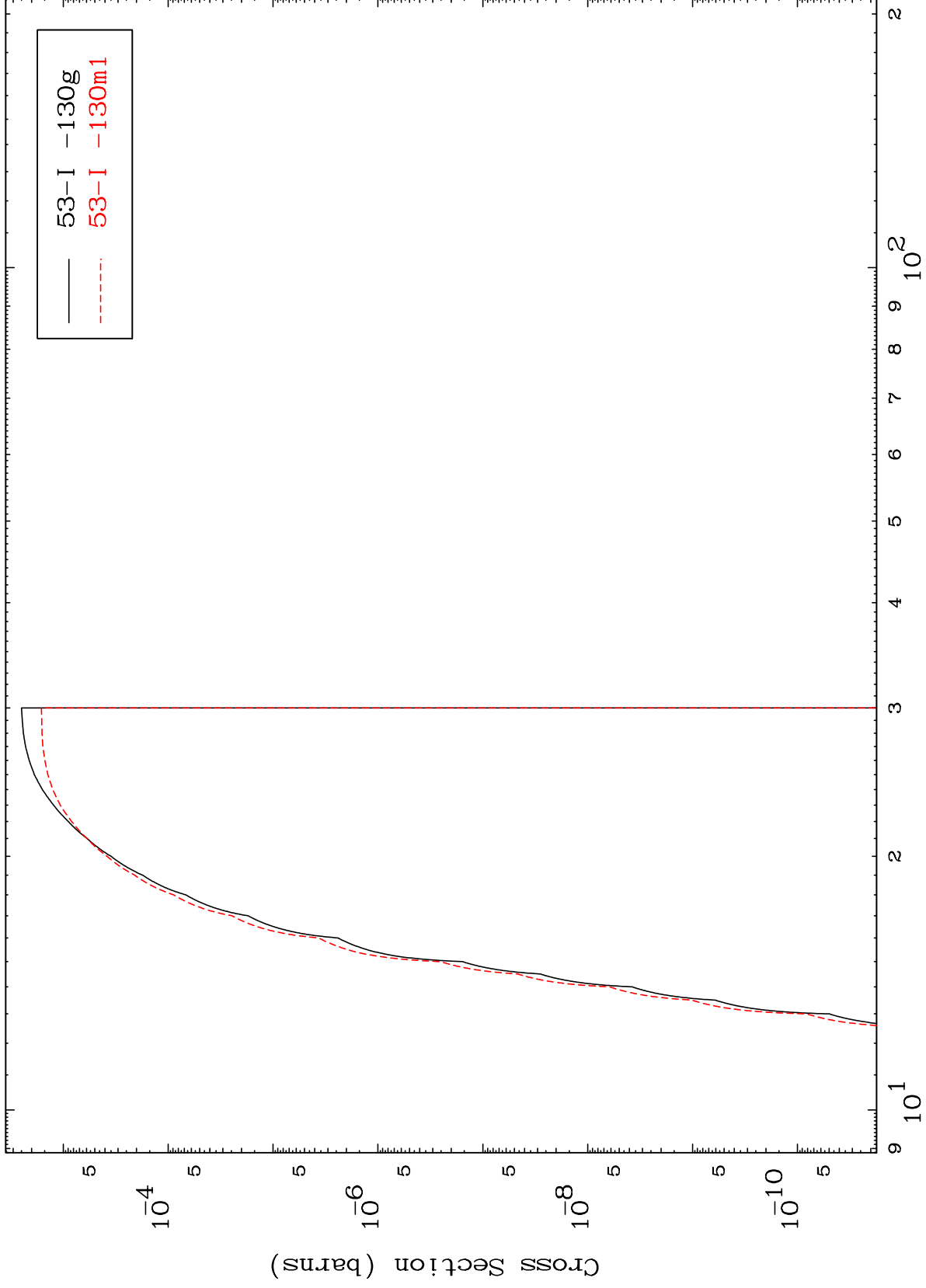
Incident Energy (MeV)

54-Xe-132

MAT 5449

54-Xe-132

(n,t)  
Radionuclide Production Cross Section



53-I - 130g  
53-I - 130m1

54-Xe-132

Incident Energy (MeV)

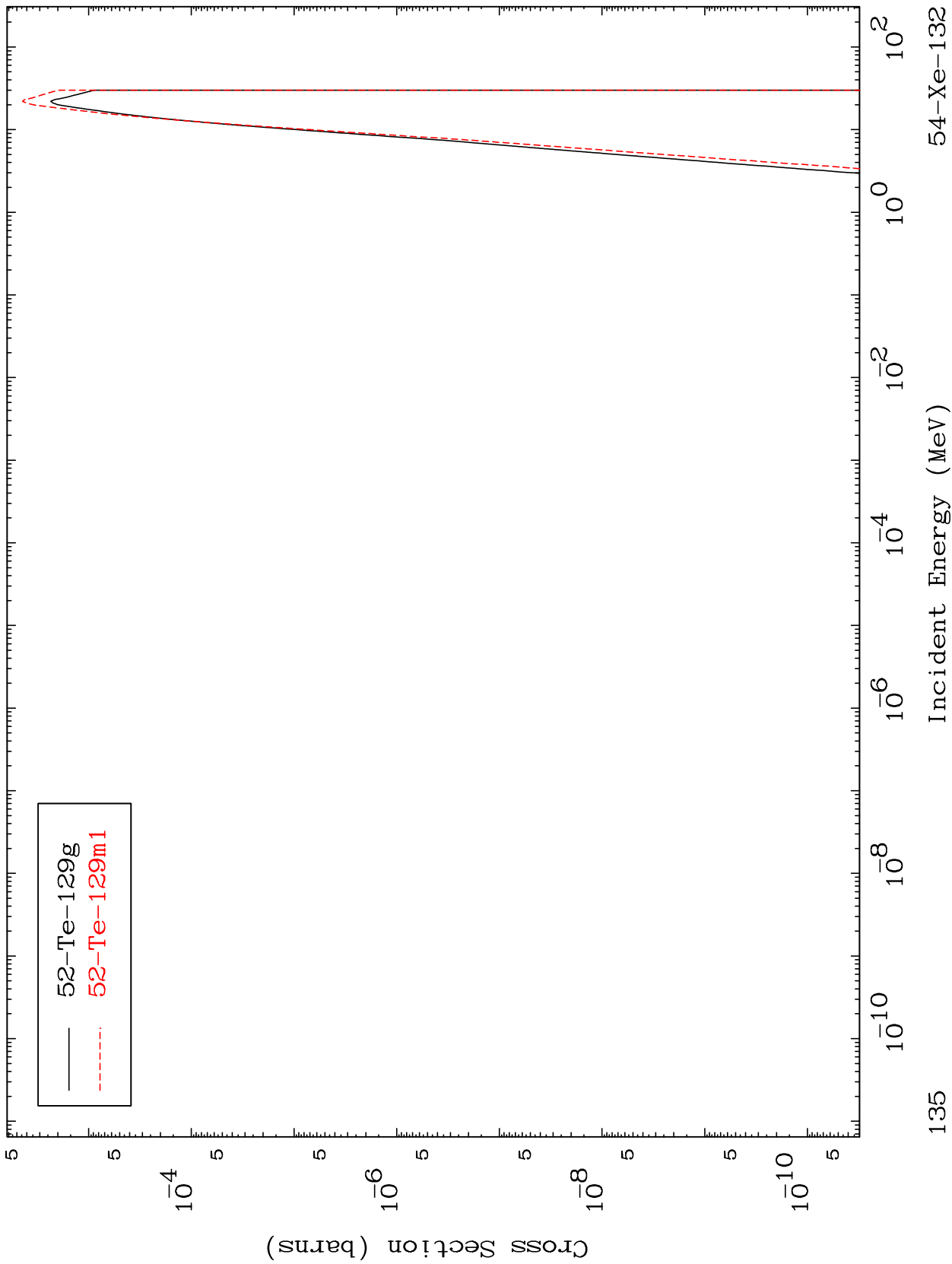
134

MAT 5449

(n,  $\alpha$ )

54-Xe-132

Radionuclide Production Cross Section



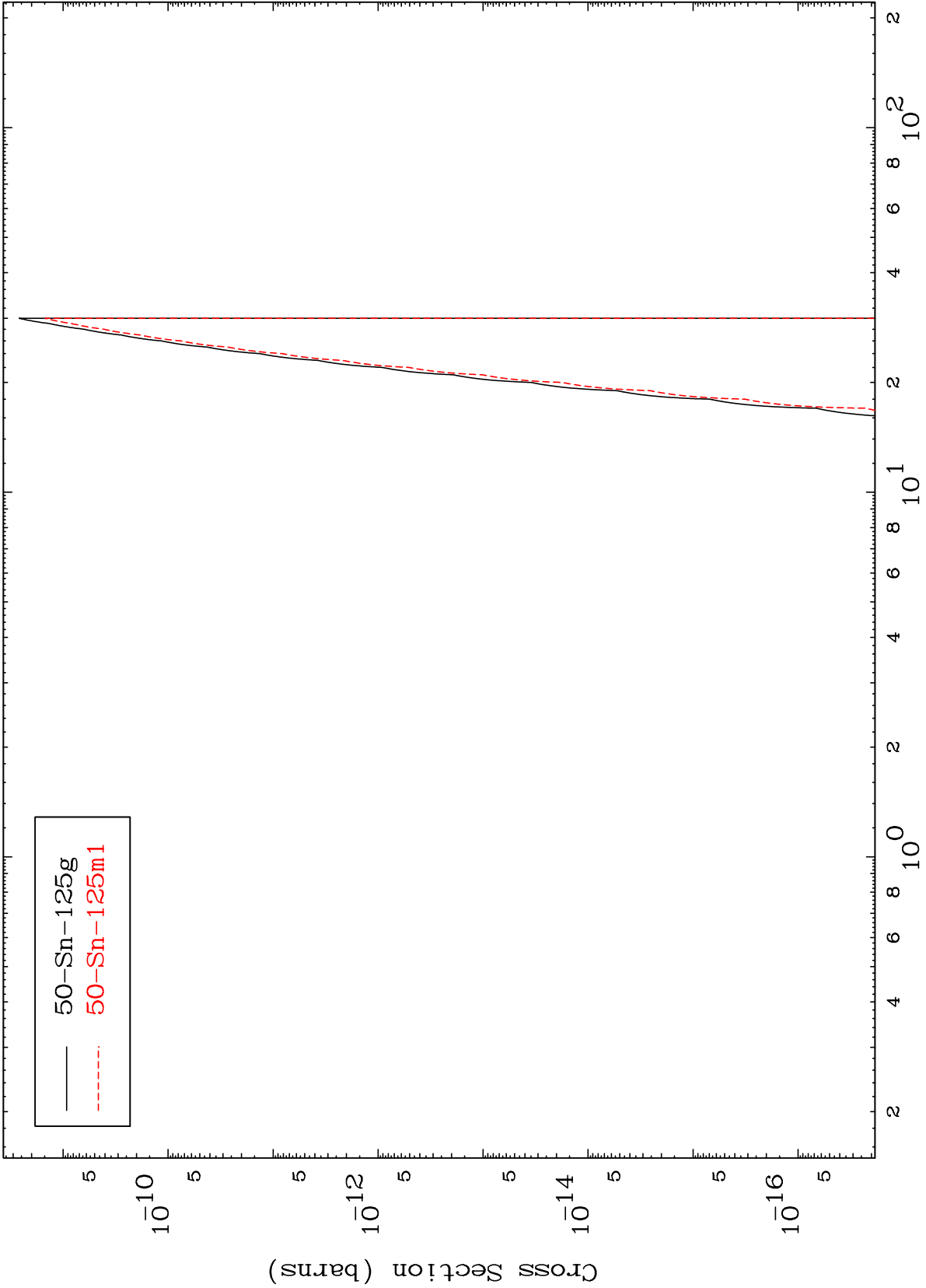


MAT 5449

(n,2α)

54-Xe-132

Radionuclide Production Cross Section



50-Sn-125g  
50-Sn-125m1

136

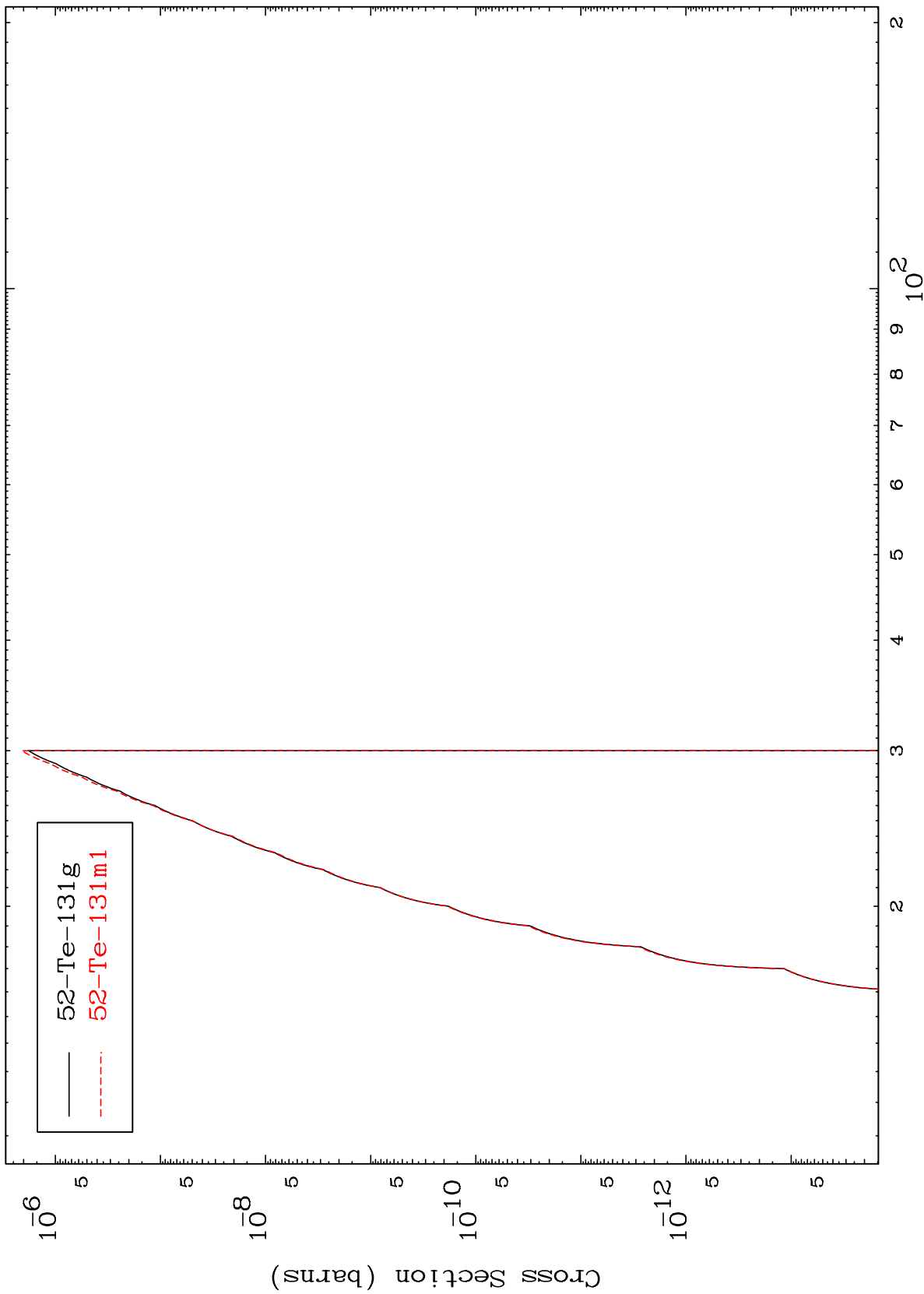
Incident Energy (MeV)

54-Xe-132

MAT 5449

54-Xe-132

(n,2p)  
Radionuclide Production Cross Section



137

54-Xe-132

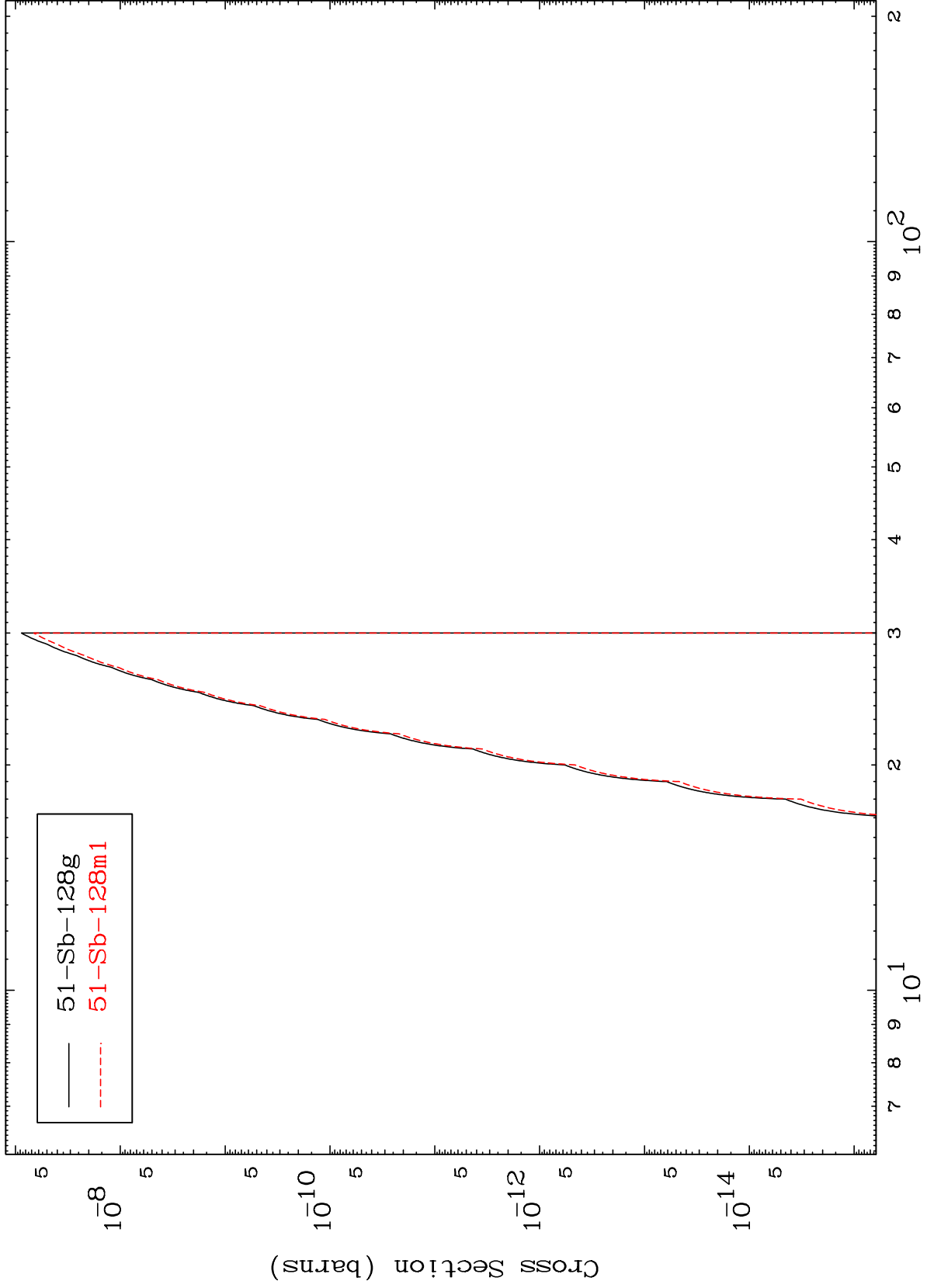
Incident Energy (MeV)

MAT 5449

(n,p)  $\alpha$

54-Xe-132

Radionuclide Production Cross Section



138

Incident Energy (MeV)

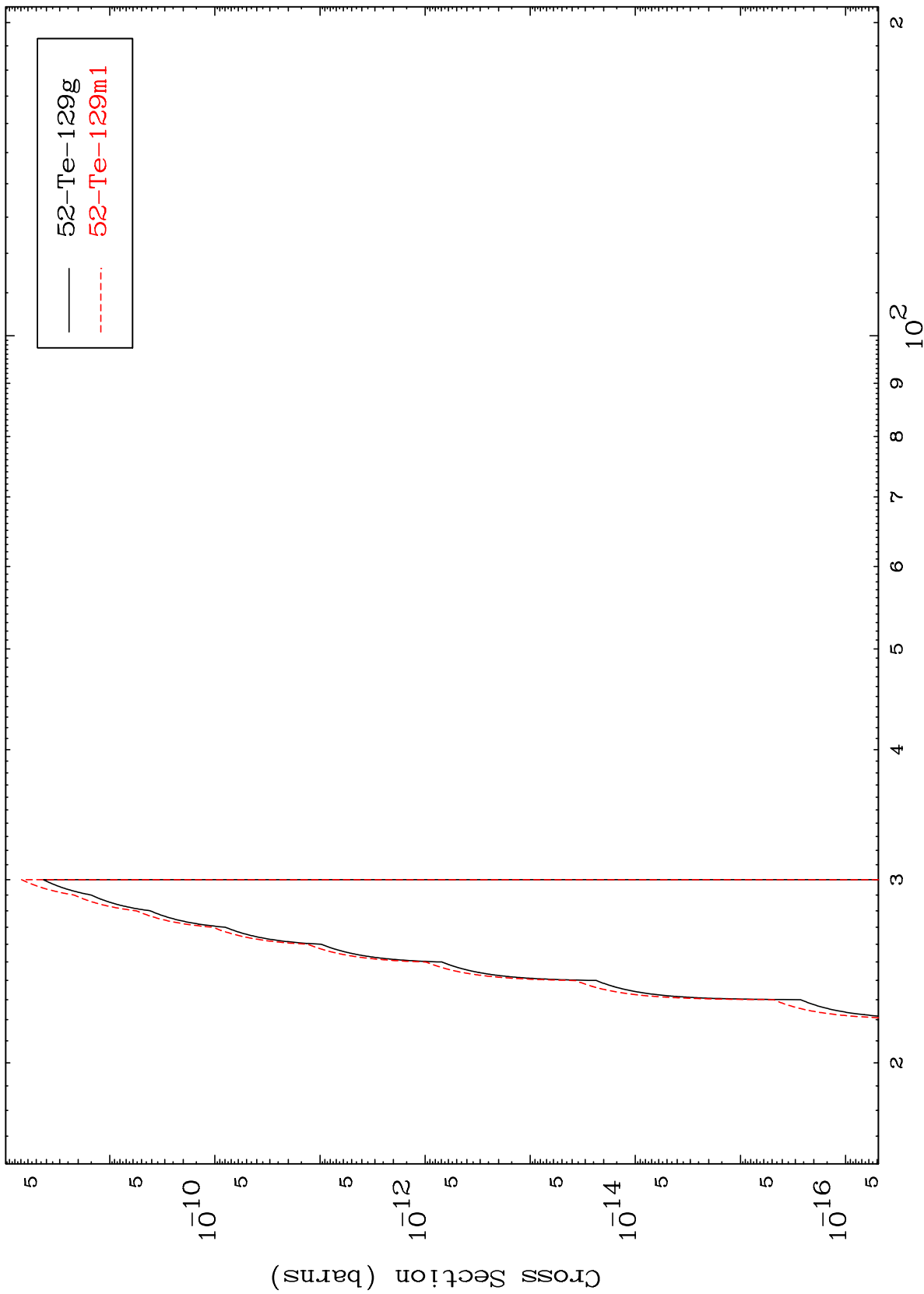
54-Xe-132

MAT 5449

(n,p) t

54-Xe-132

Radionuclide Production Cross Section



139

Incident Energy (MeV)

54-Xe-132