

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

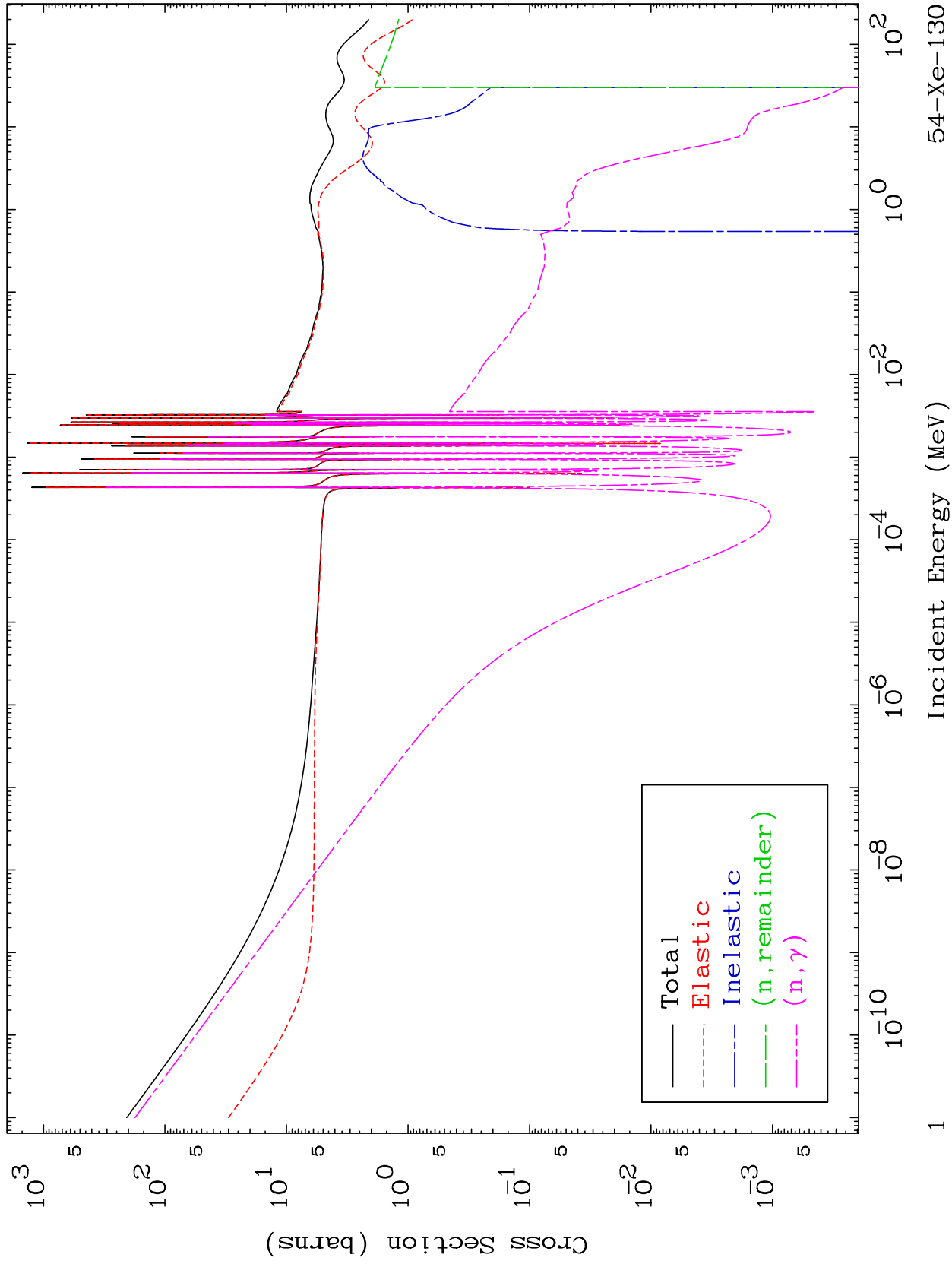
Press Mouse Button to Start

MAT 5443

Major

293 Kelvin Cross Sections

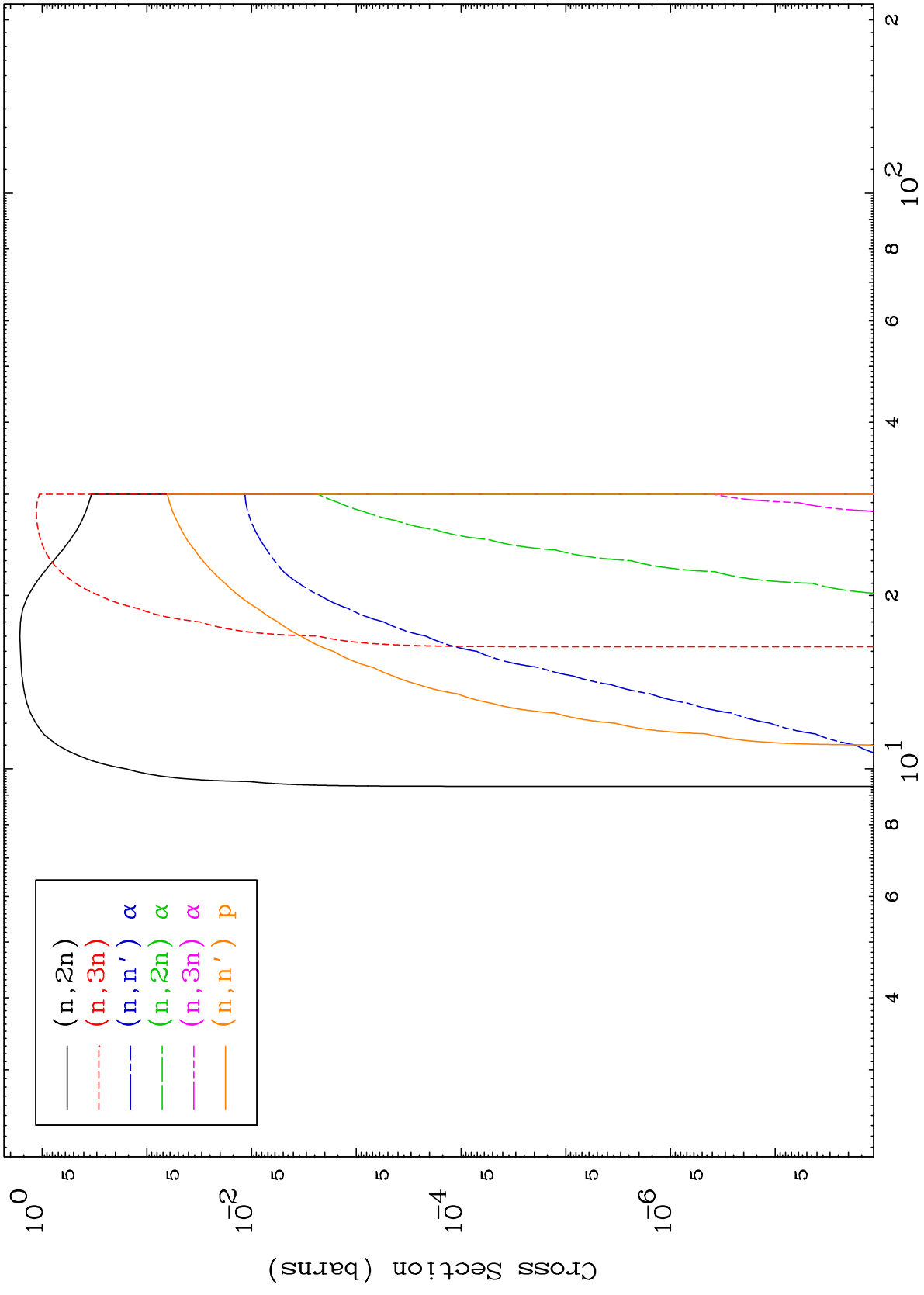
54-Xe-130



MAT 5443

Neutron Production  
293 Kelvin Cross Sections

54-Xe-130



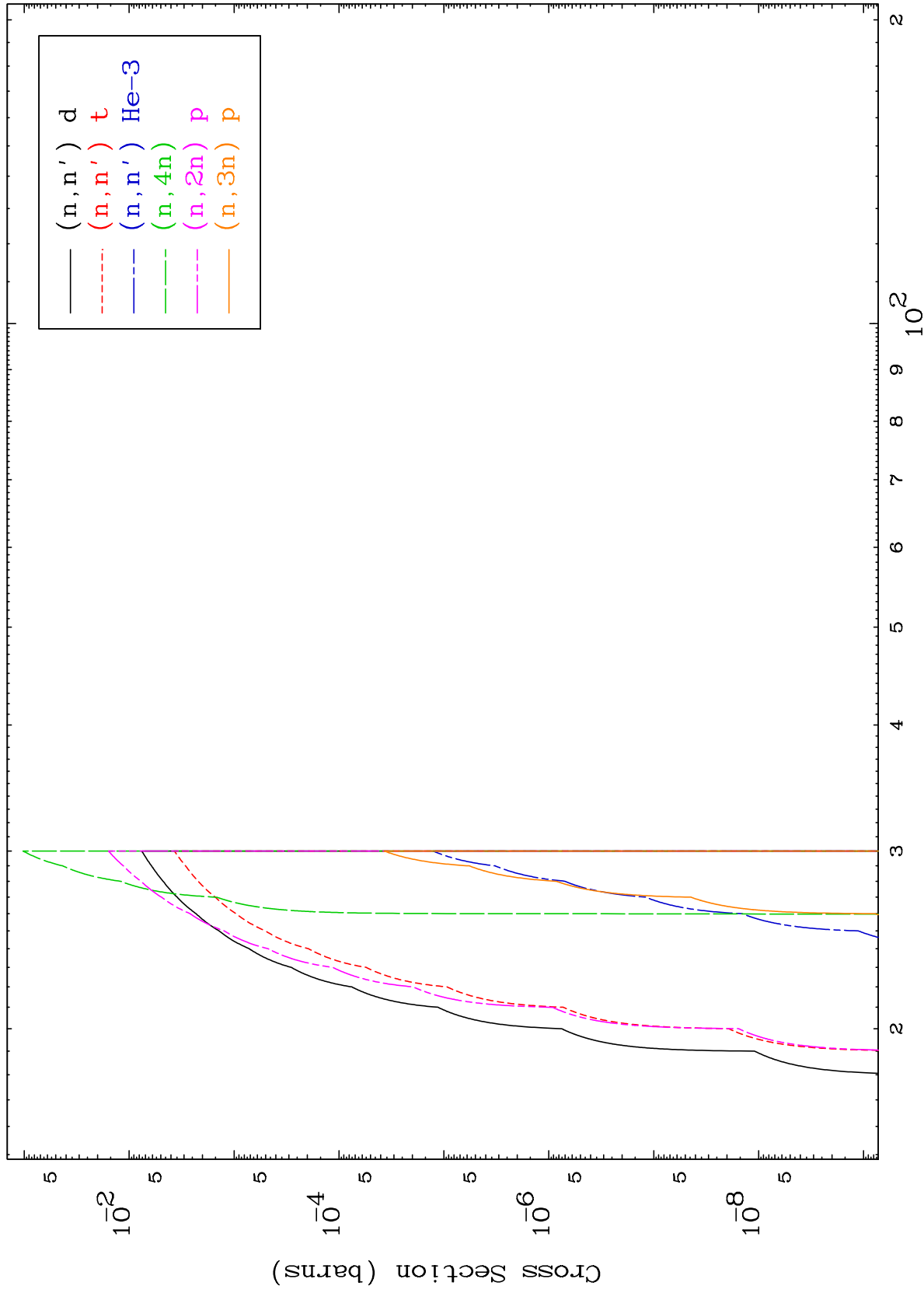
2

54-Xe-130

MAT 5443

Neutron Production  
293 Kelvin Cross Sections

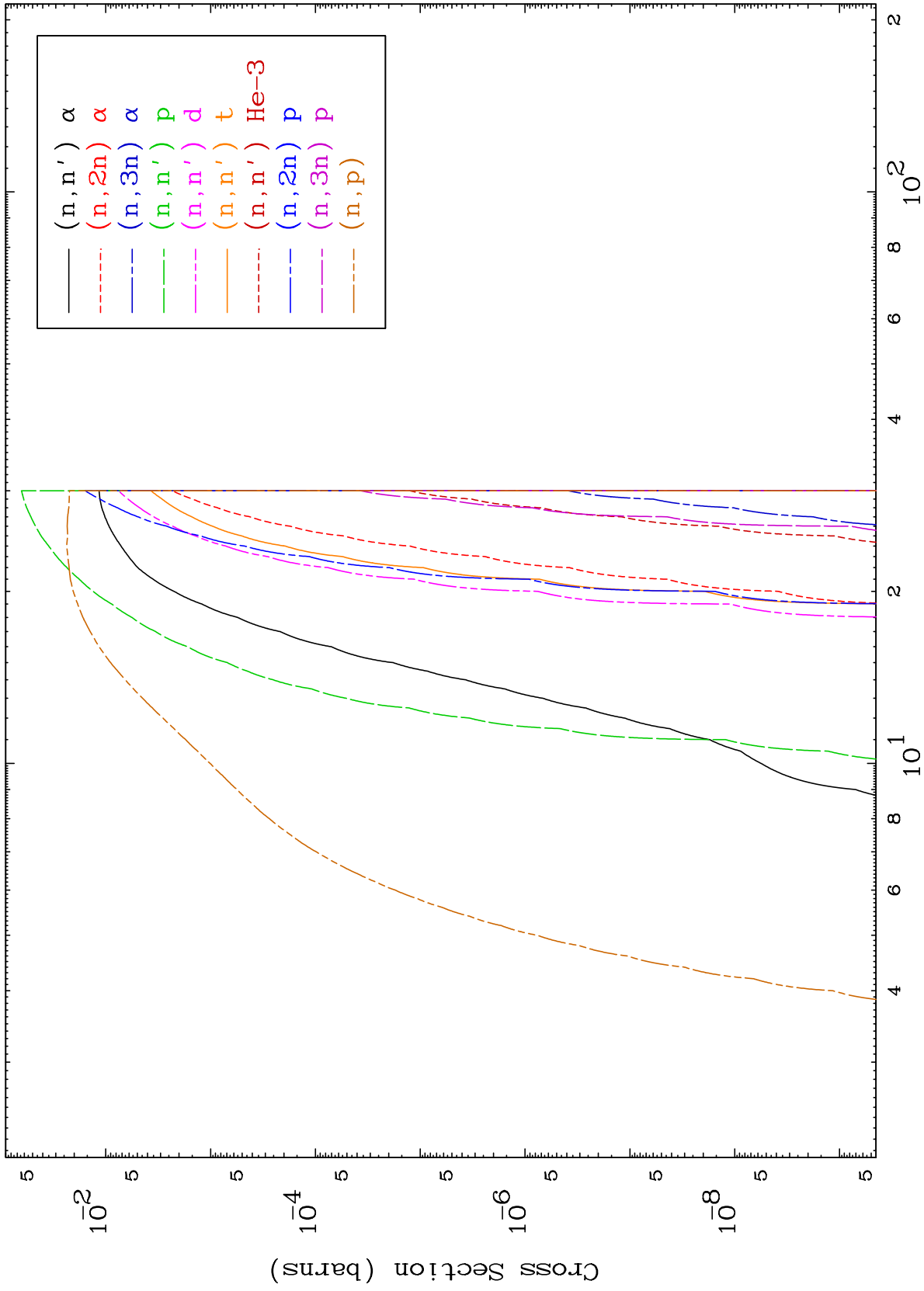
54-Xe-130



3

Incident Energy (MeV)

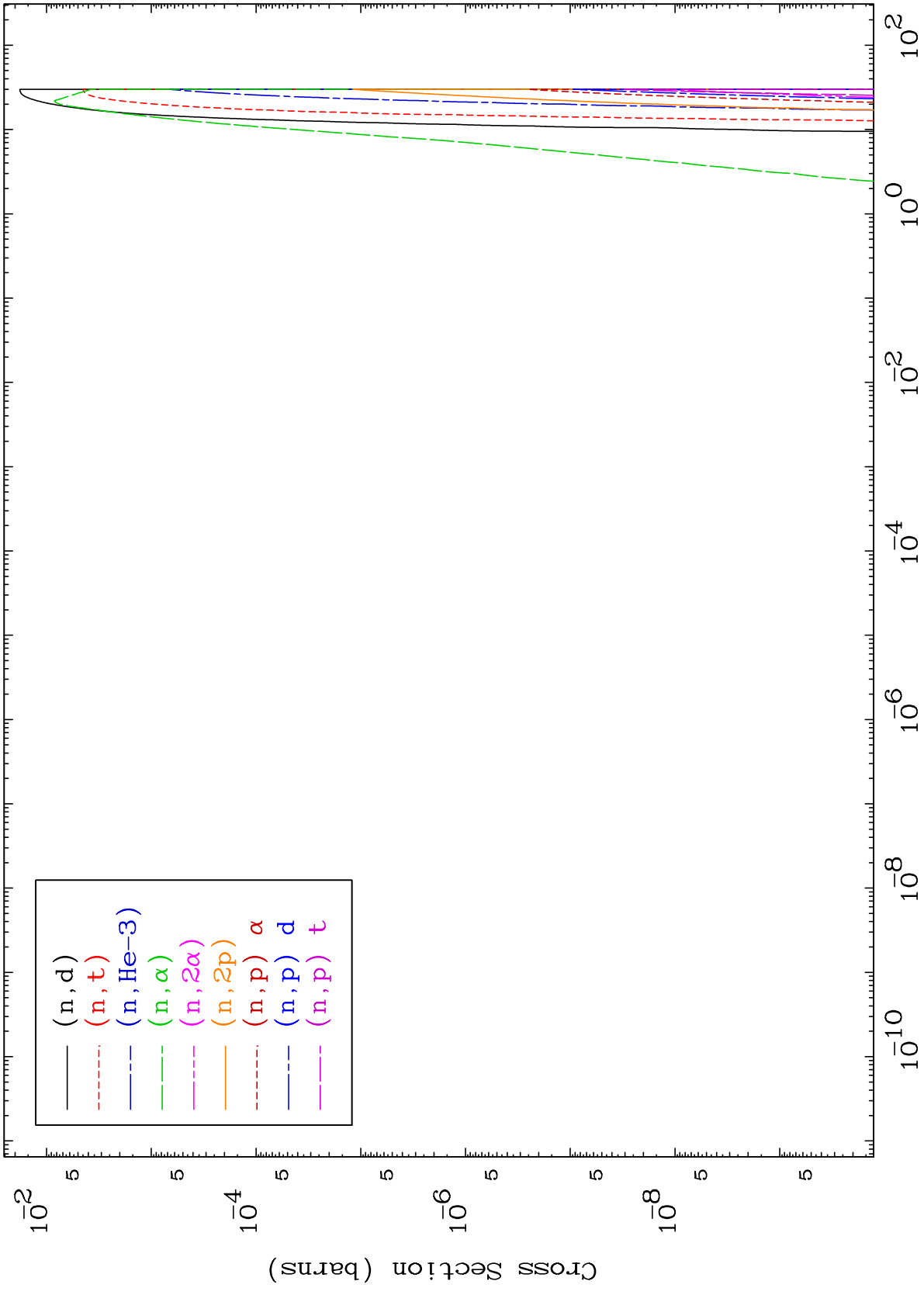
54-Xe-130



MAT 5443

293 Kelvin Cross Sections

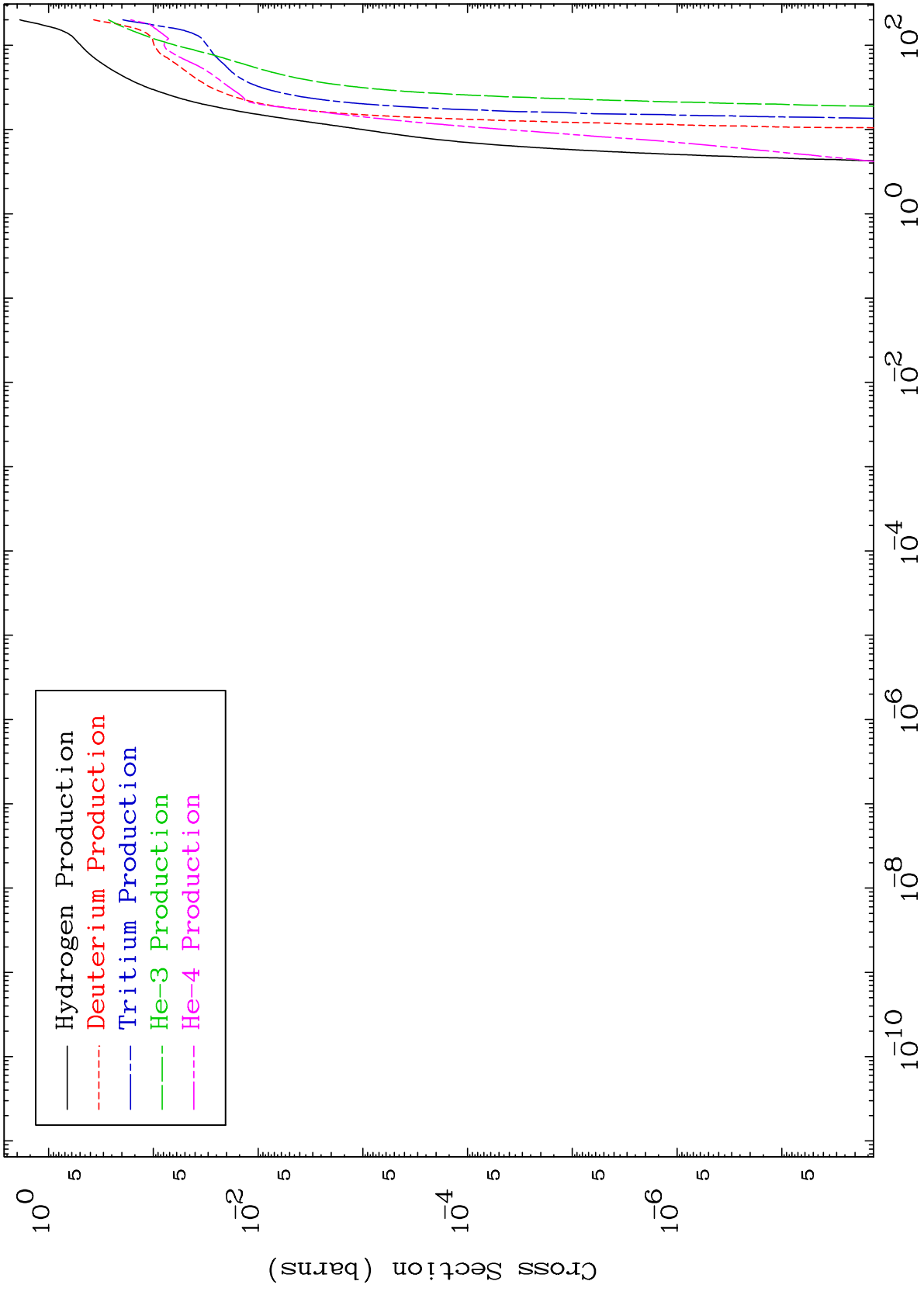
54-Xe-130



MAT 5443

Particle Production  
293 Kelvin Cross Sections

54-Xe-130



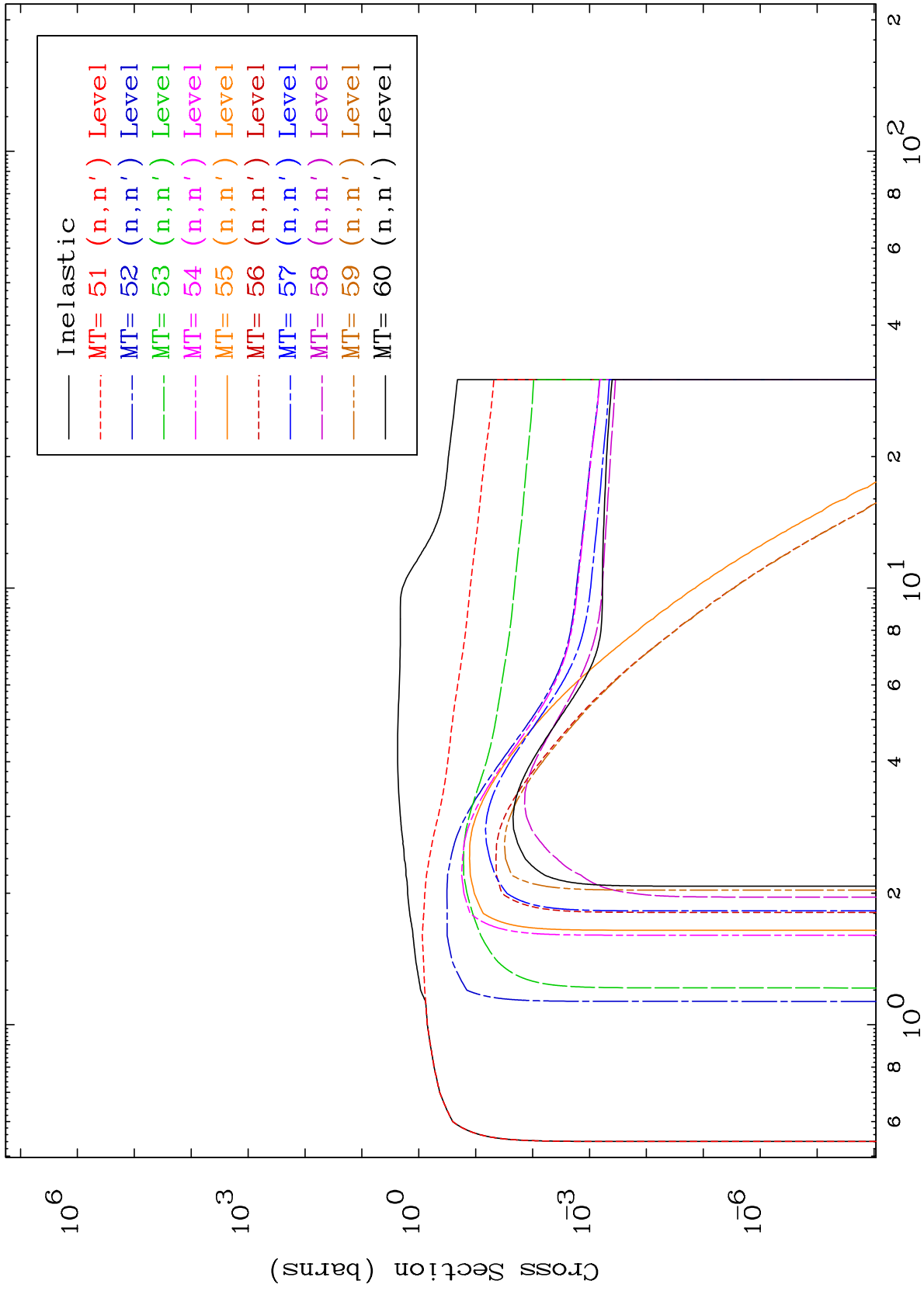
54-Xe-130

MAT 5443

(n,n') Level

54-Xe-130

293 Kelvin Cross Sections



7

Incident Energy (MeV)

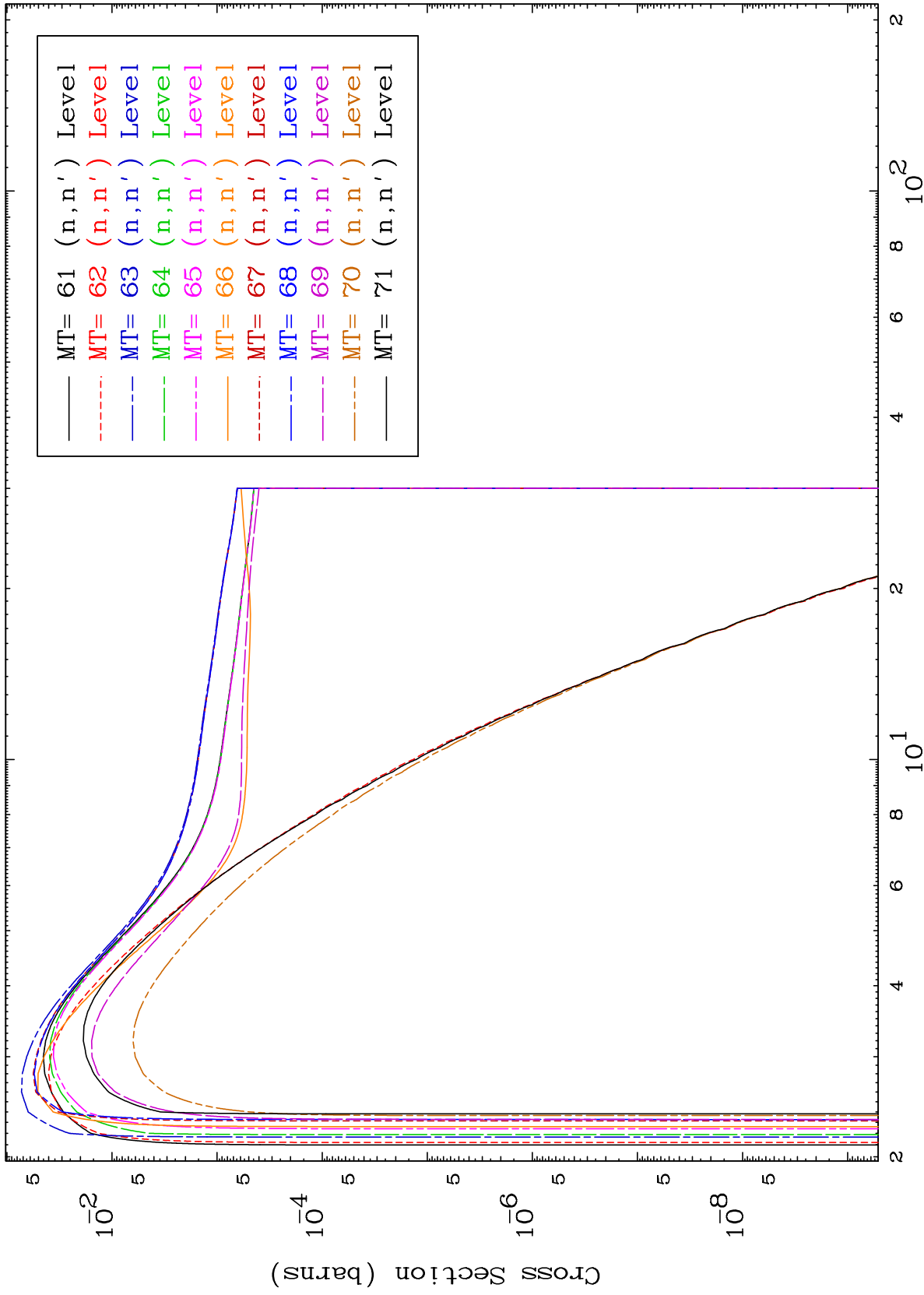
54-Xe-130

MAT 5443

(n,n') Level

54-Xe-130

293 Kelvin Cross Sections



8

Incident Energy (MeV)

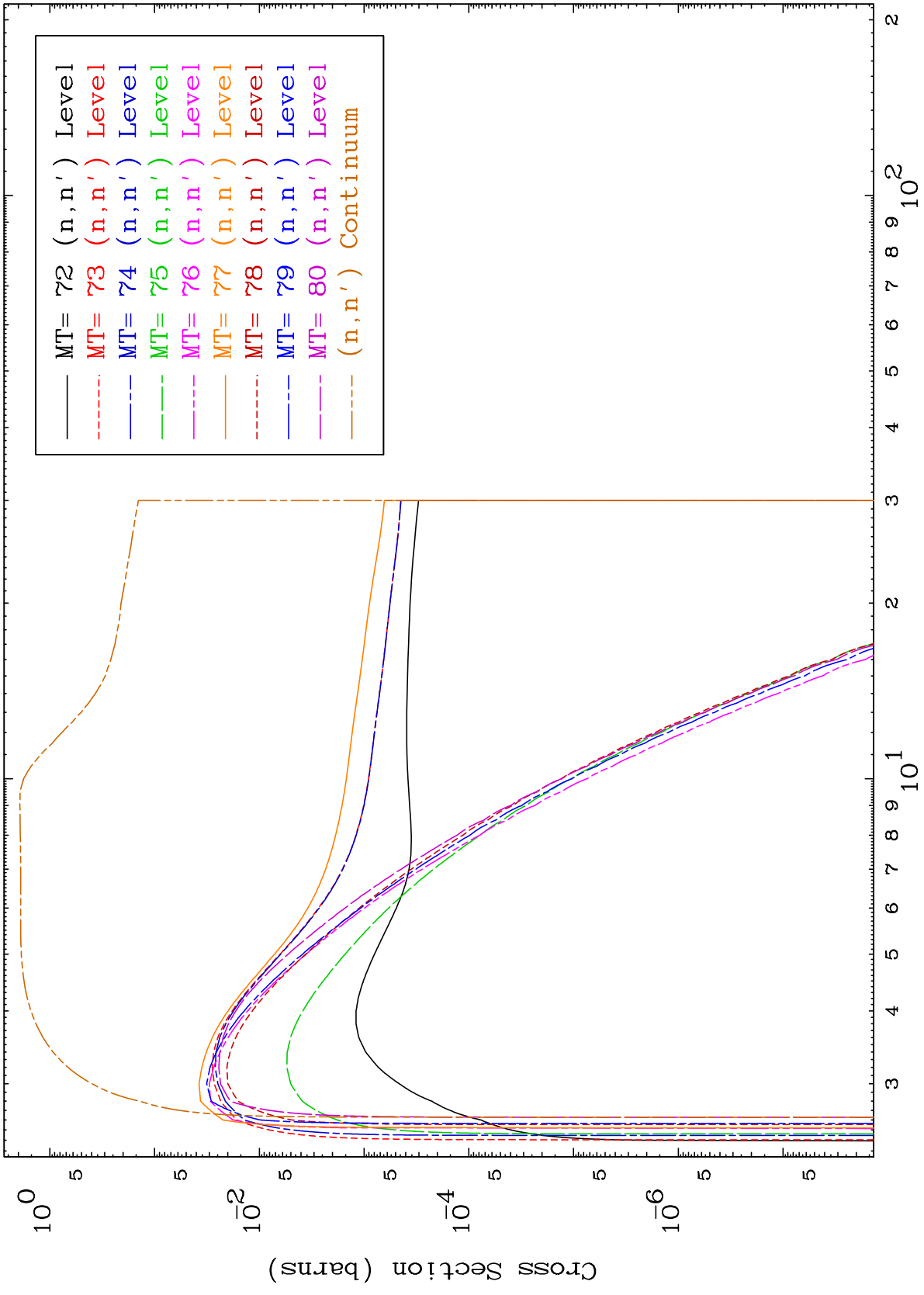
54-Xe-130

MAT 5443

(n,n') Level

54-Xe-130

293 Kelvin Cross Sections



9

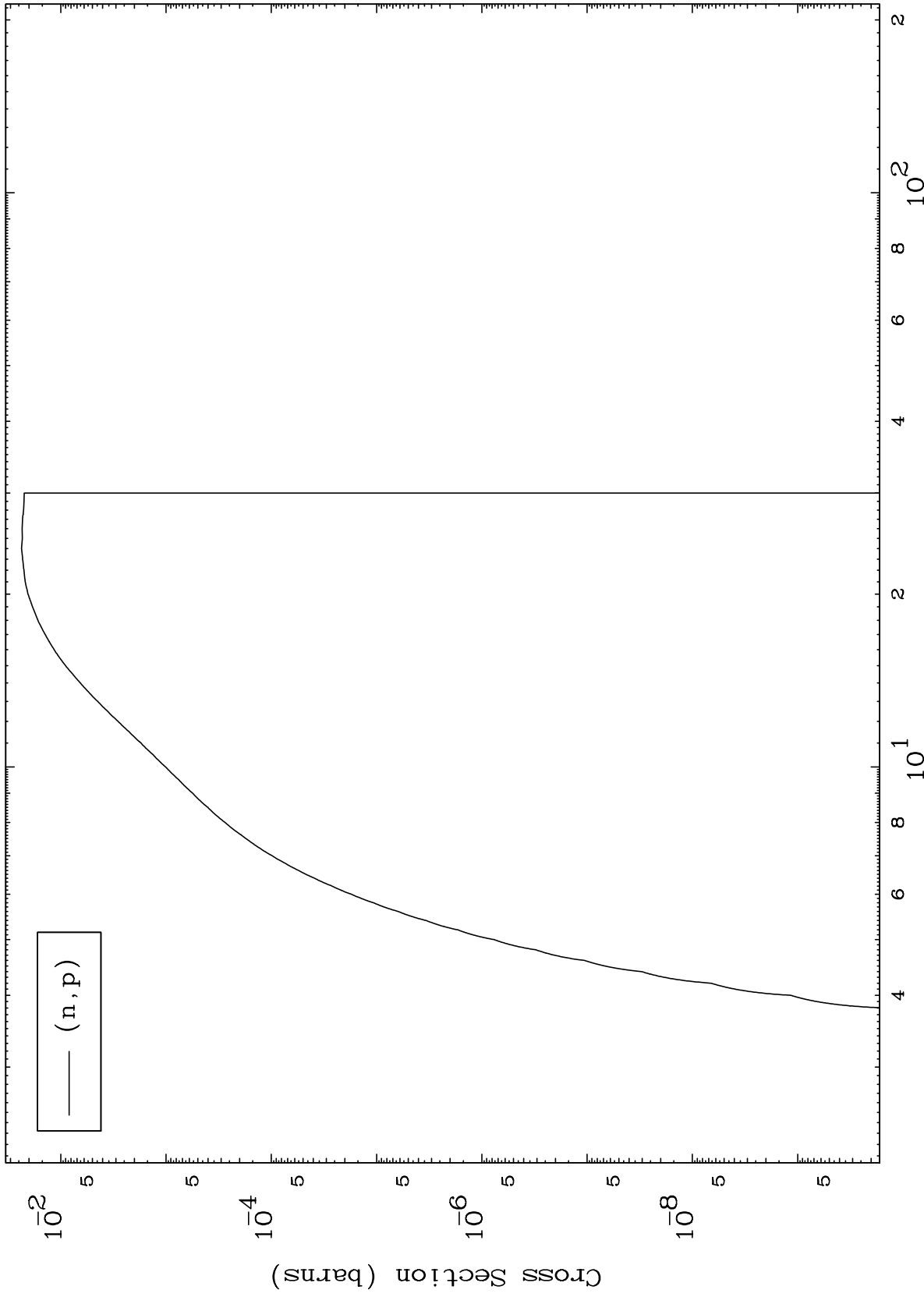
Incident Energy (MeV)

54-Xe-130

MAT 5443

(n,p) Levels  
293 Kelvin Cross Sections

54-Xe-130



10

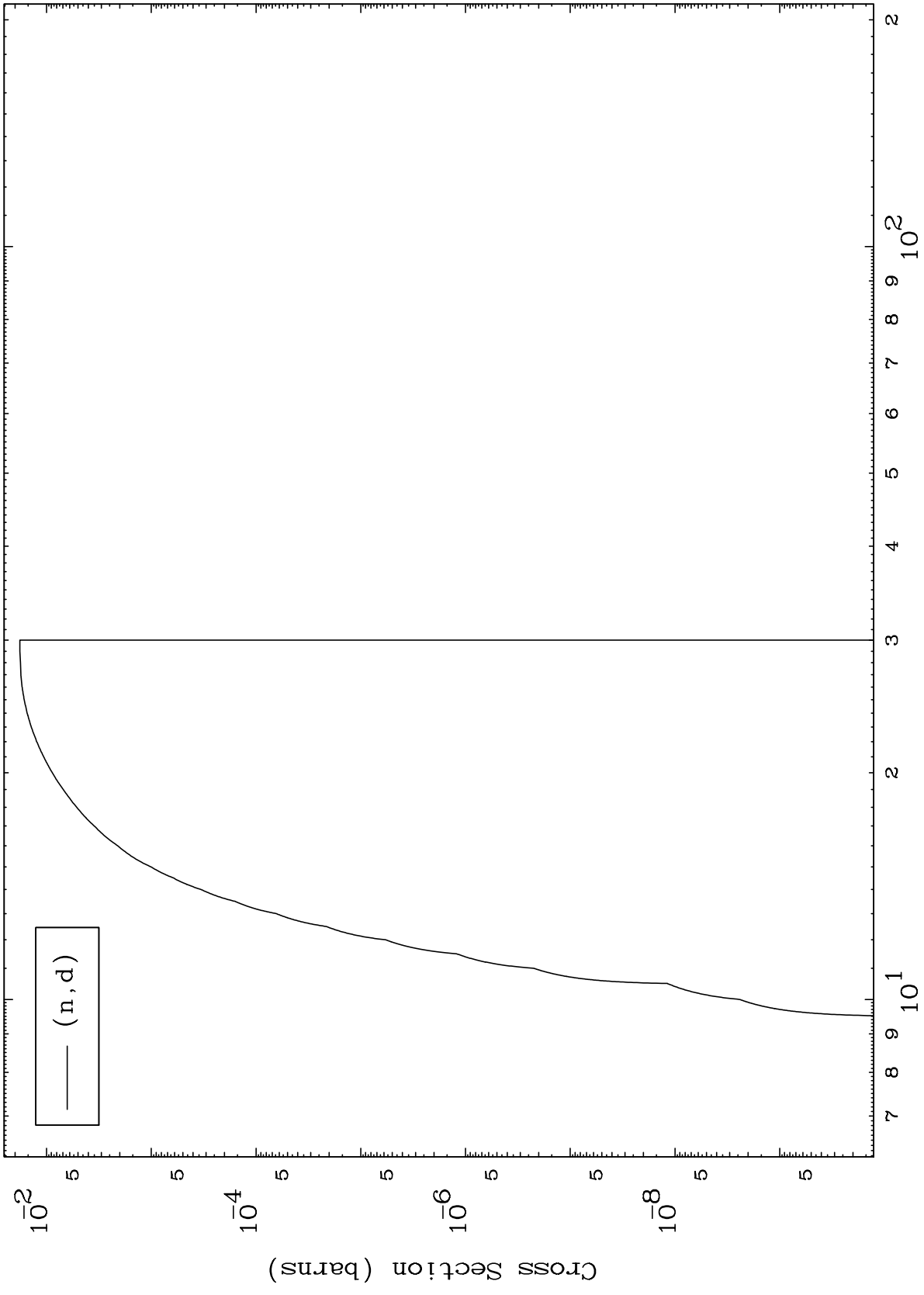
Incident Energy (MeV)

54-Xe-130

MAT 5443

(n,d) Levels  
293 Kelvin Cross Sections

54-Xe-130



11

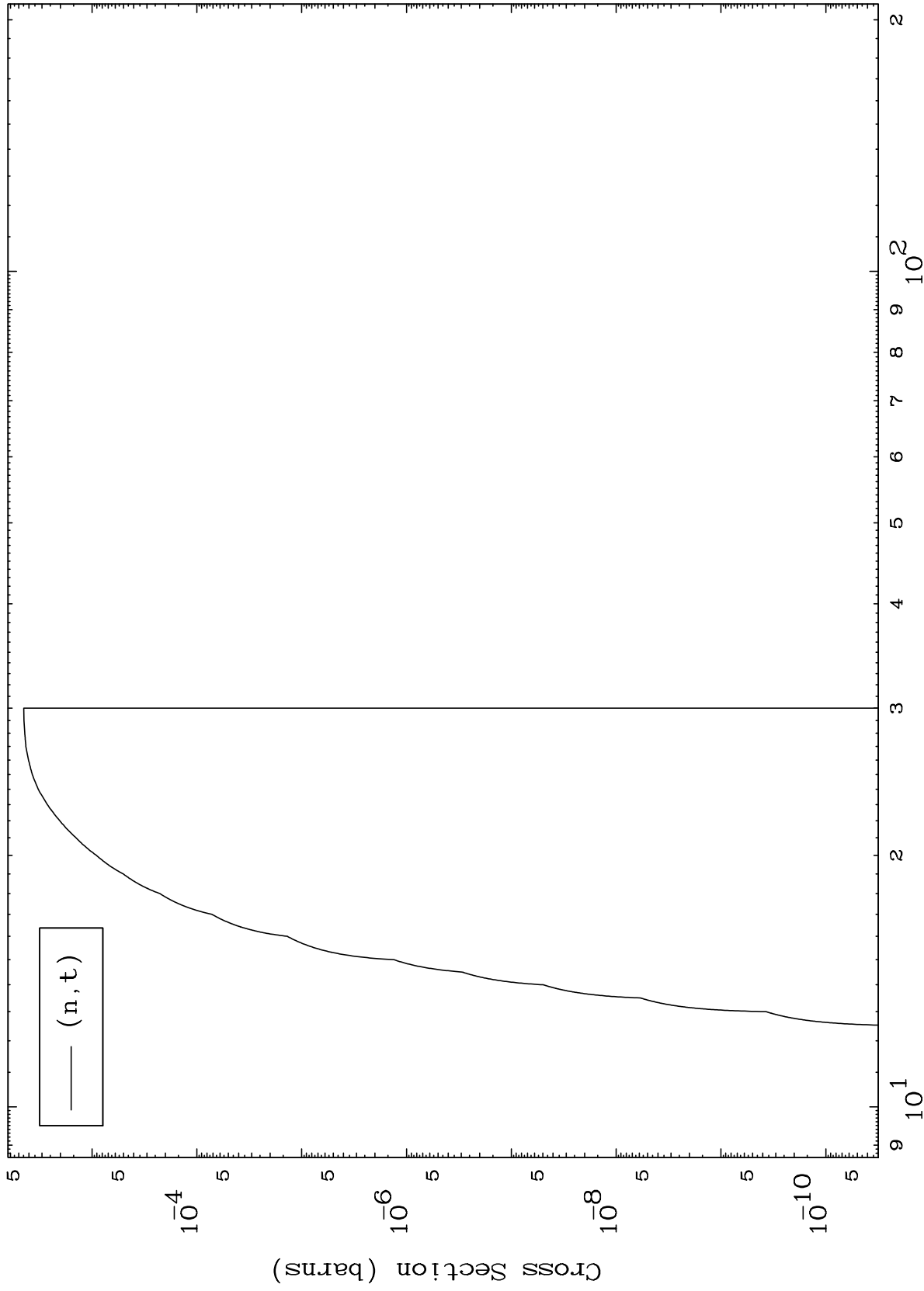
Incident Energy (MeV)

54-Xe-130

MAT 5443

(n,t) Levels  
293 Kelvin Cross Sections

54-Xe-130



12

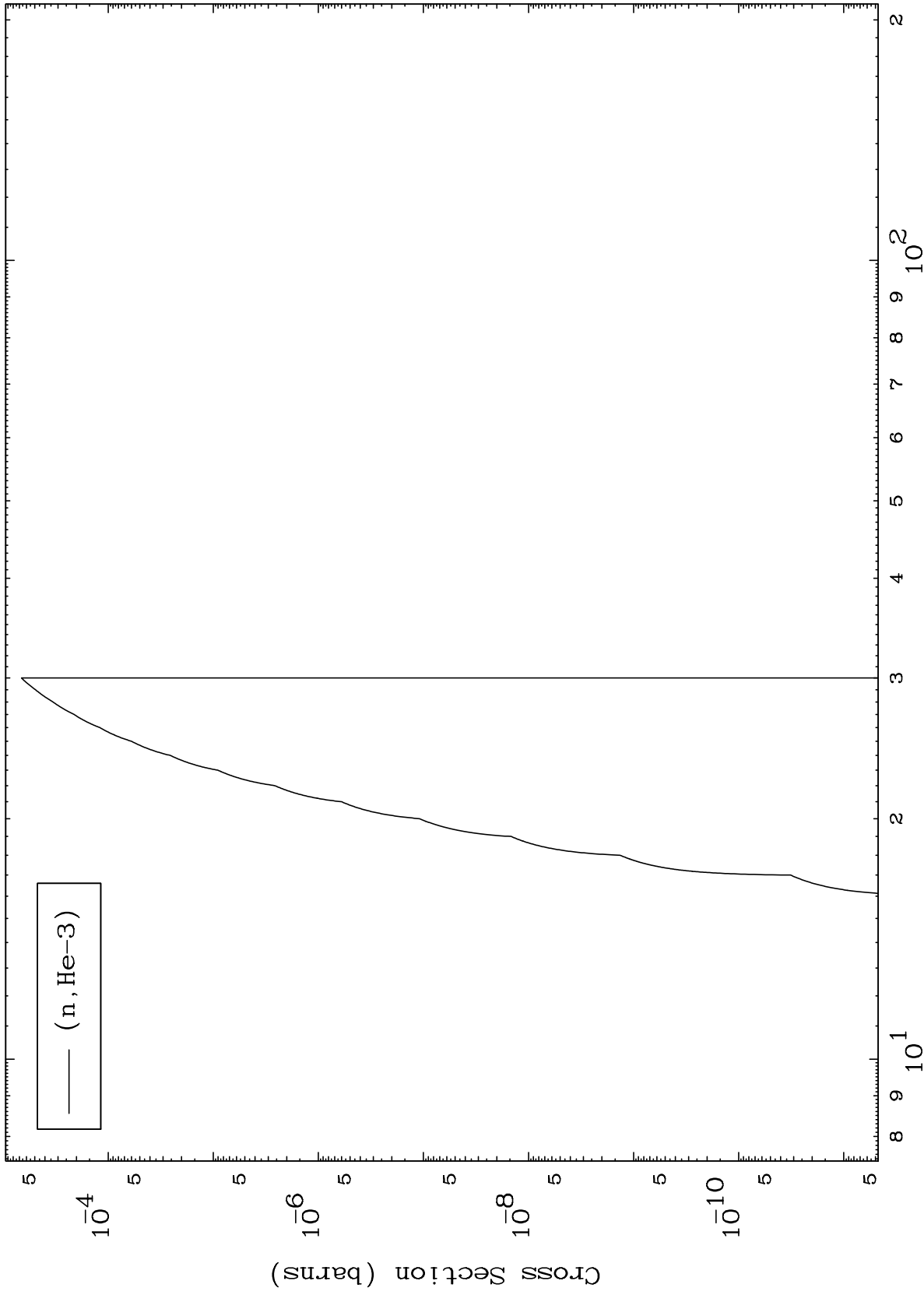
Incident Energy (MeV)

54-Xe-130

MAT 5443

(n,He3) Levels  
293 Kelvin Cross Sections

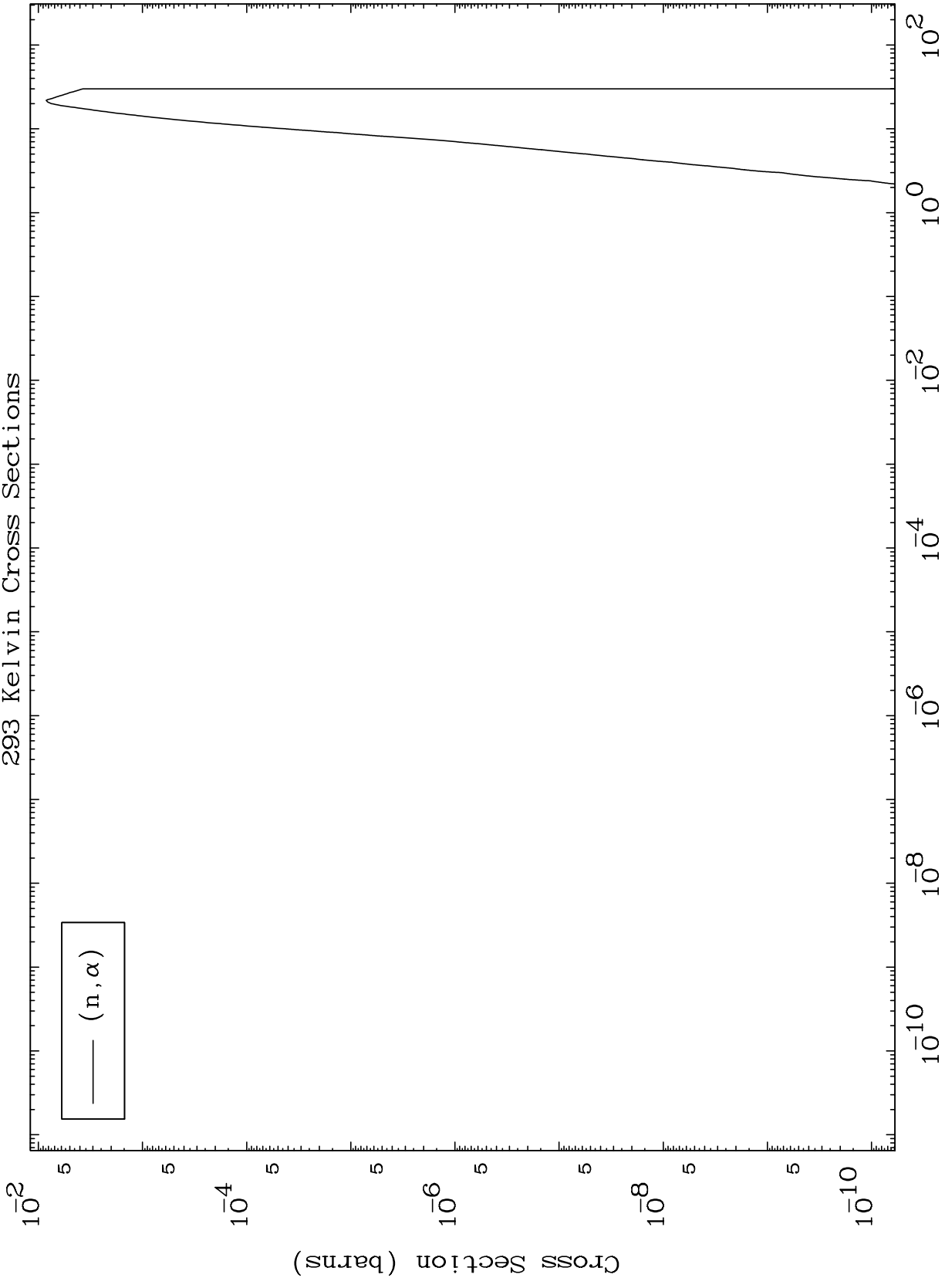
54-Xe-130

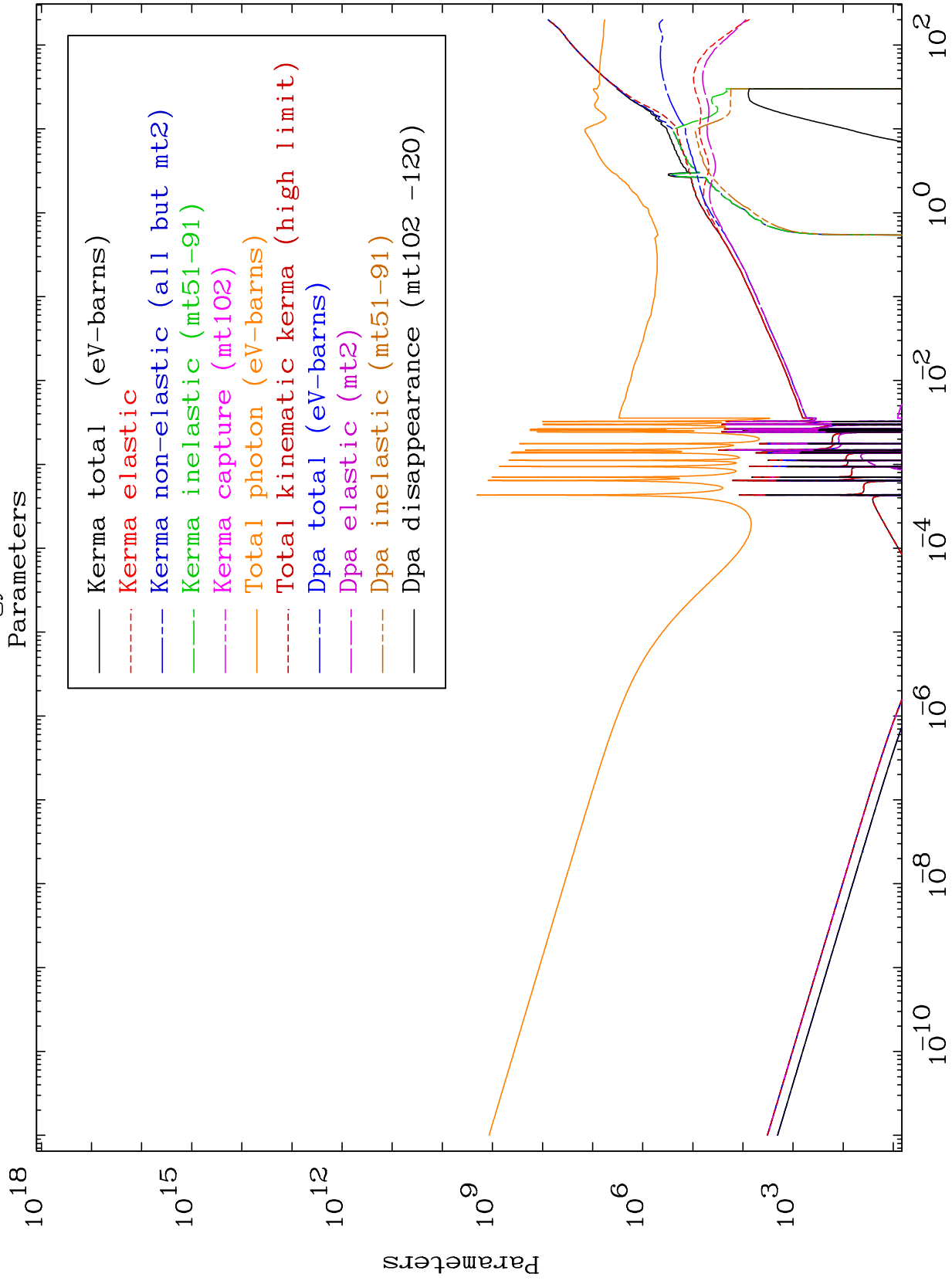


MAT 5443

(n,α) Levels  
293 Kelvin Cross Sections

54-Xe-130

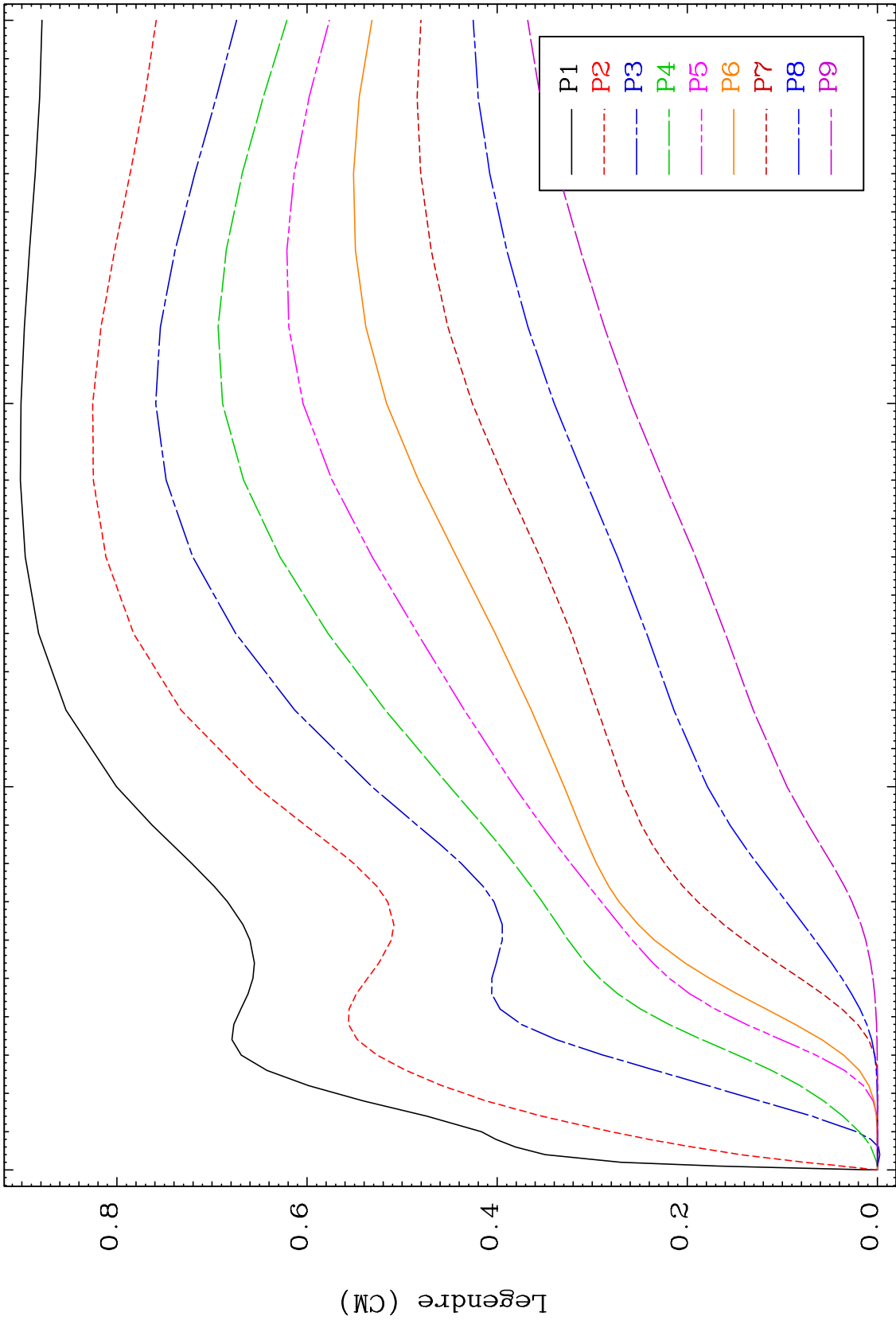




MAT 5443

Elastic Legendre Coefficients

54-Xe-130



16

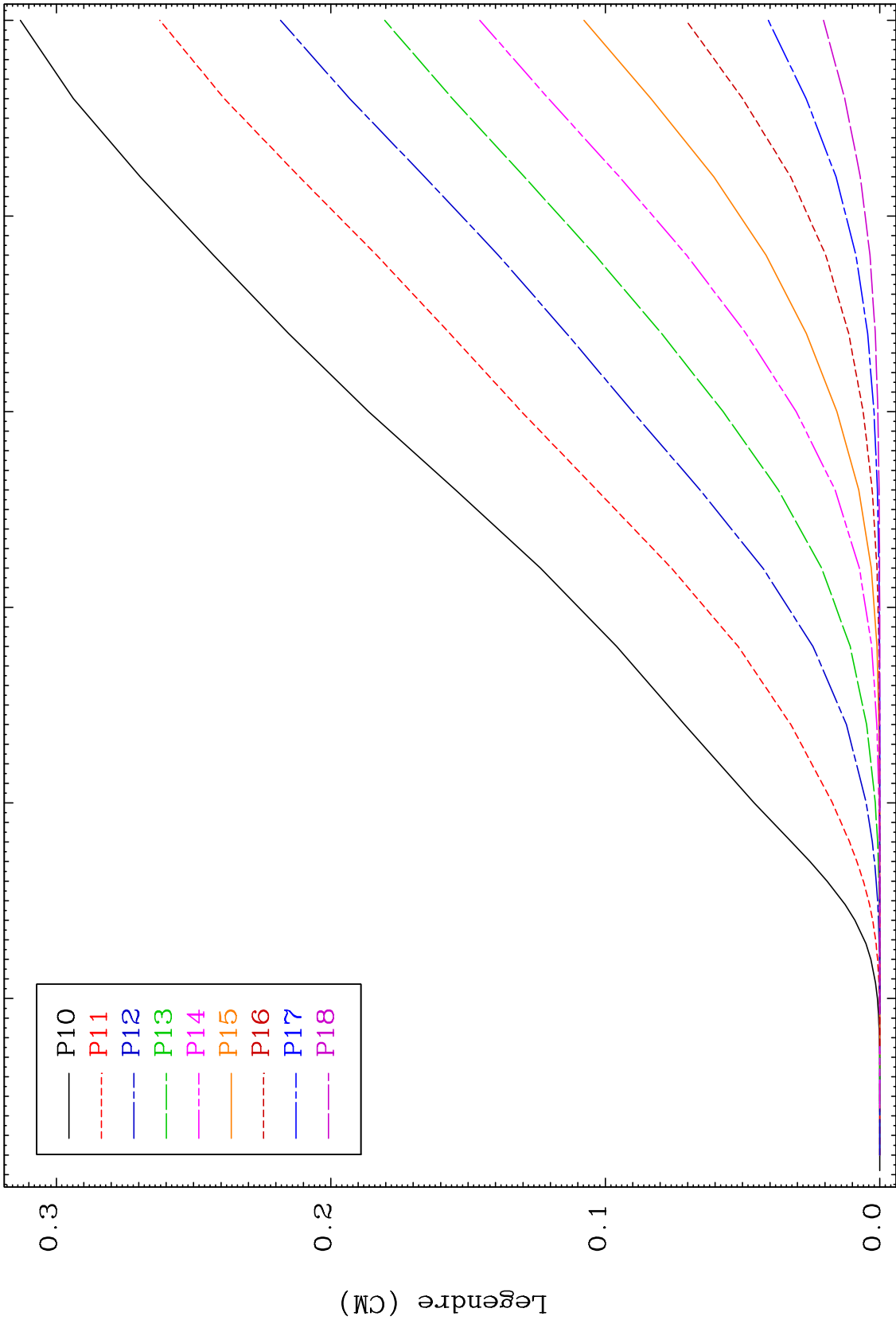
Incident Energy (MeV)

54-Xe-130

MAT 5443

Elastic Legendre Coefficients

54-Xe-130



17

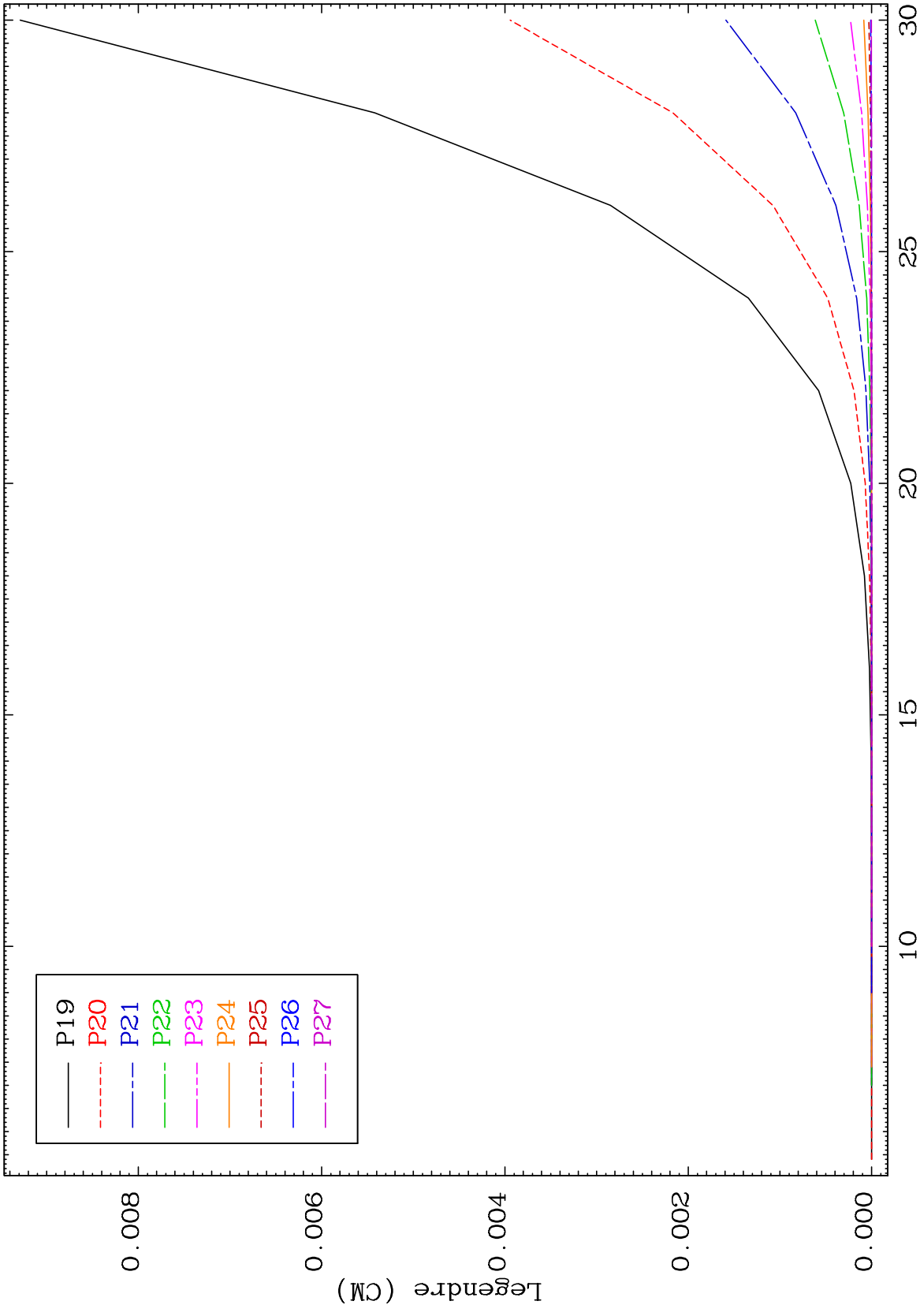
Incident Energy (MeV)

54-Xe-130

MAT 5443

Elastic Legendre Coefficients

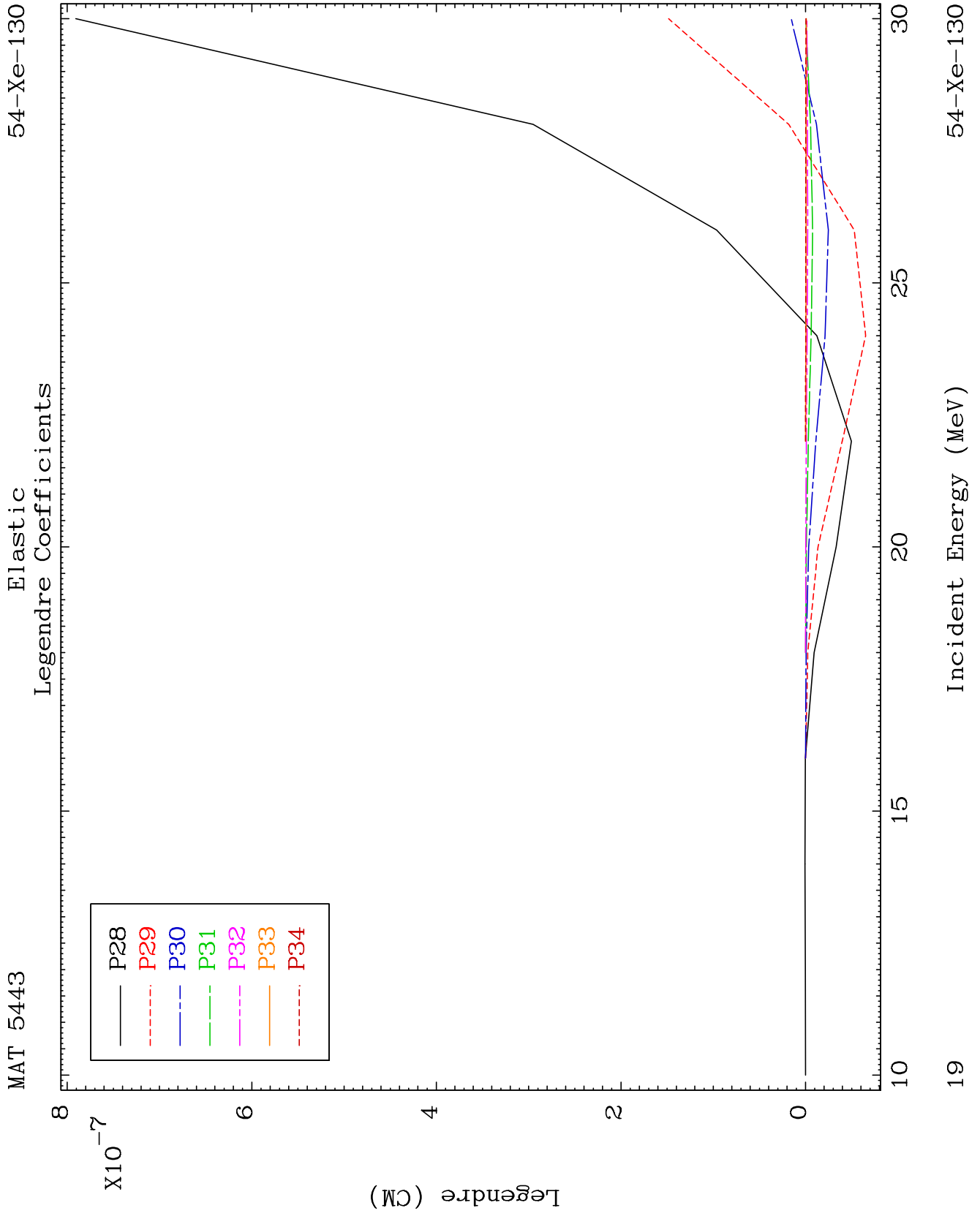
54-Xe-130



18

Incident Energy (MeV)

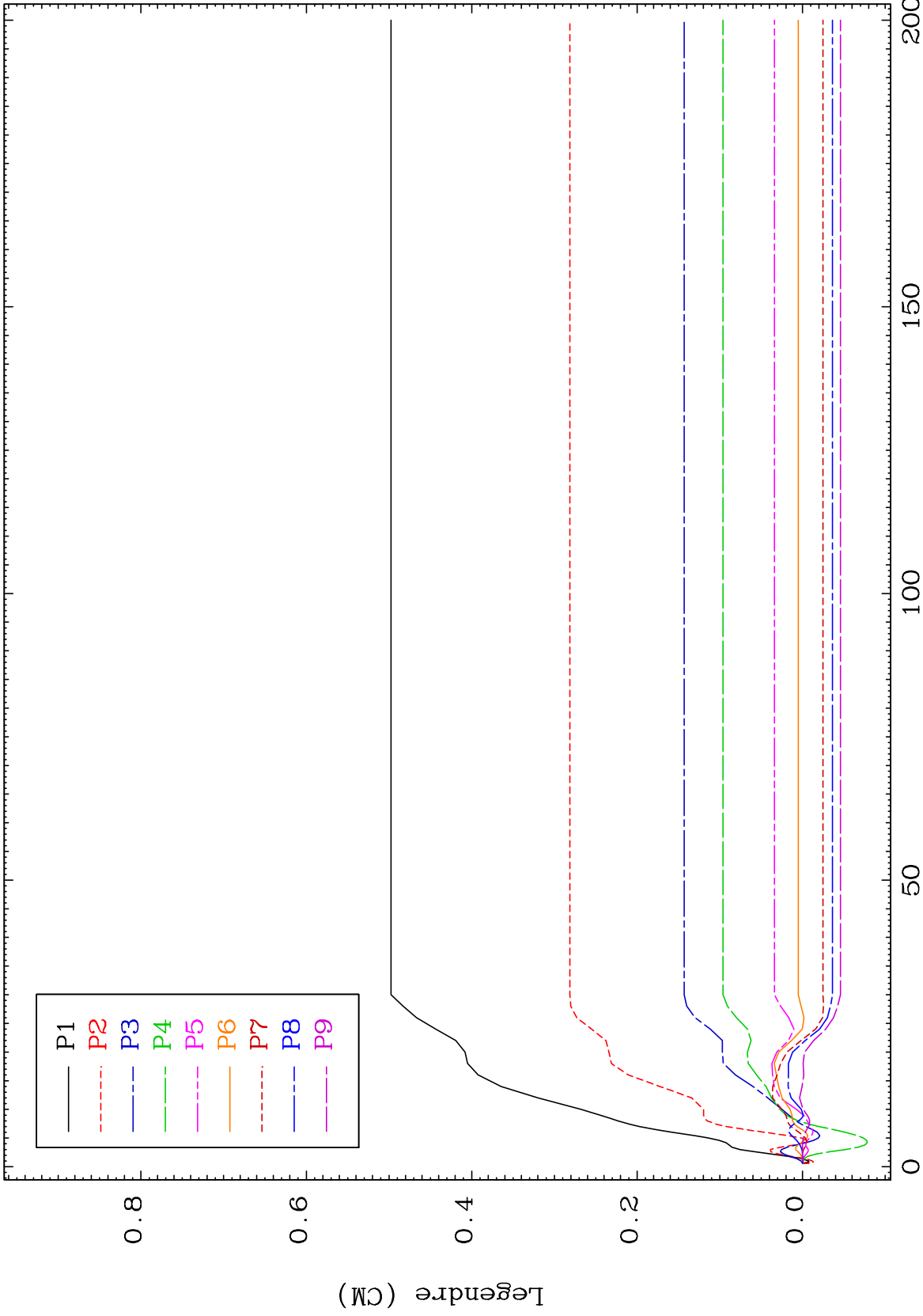
54-Xe-130



MAT 5443

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

54-Xe-130



0

50

100

150

200

Incident Energy (MeV)

54-Xe-130

Legendre (CM)

0.8

0.6

0.4

0.2

0.0

P1

P2

P3

P4

P5

P6

P7

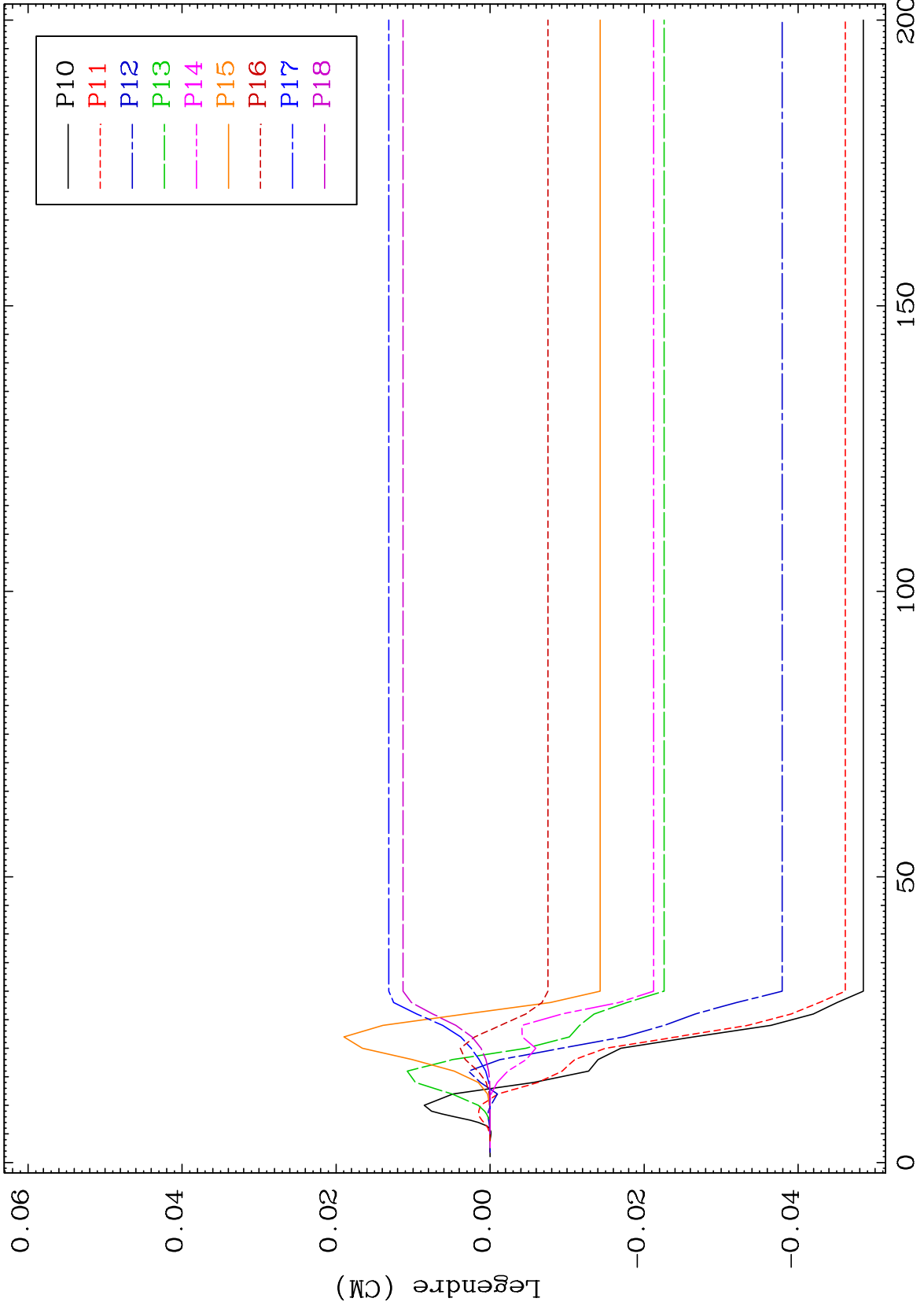
P8

P9

MAT 5443

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

54-Xe-130



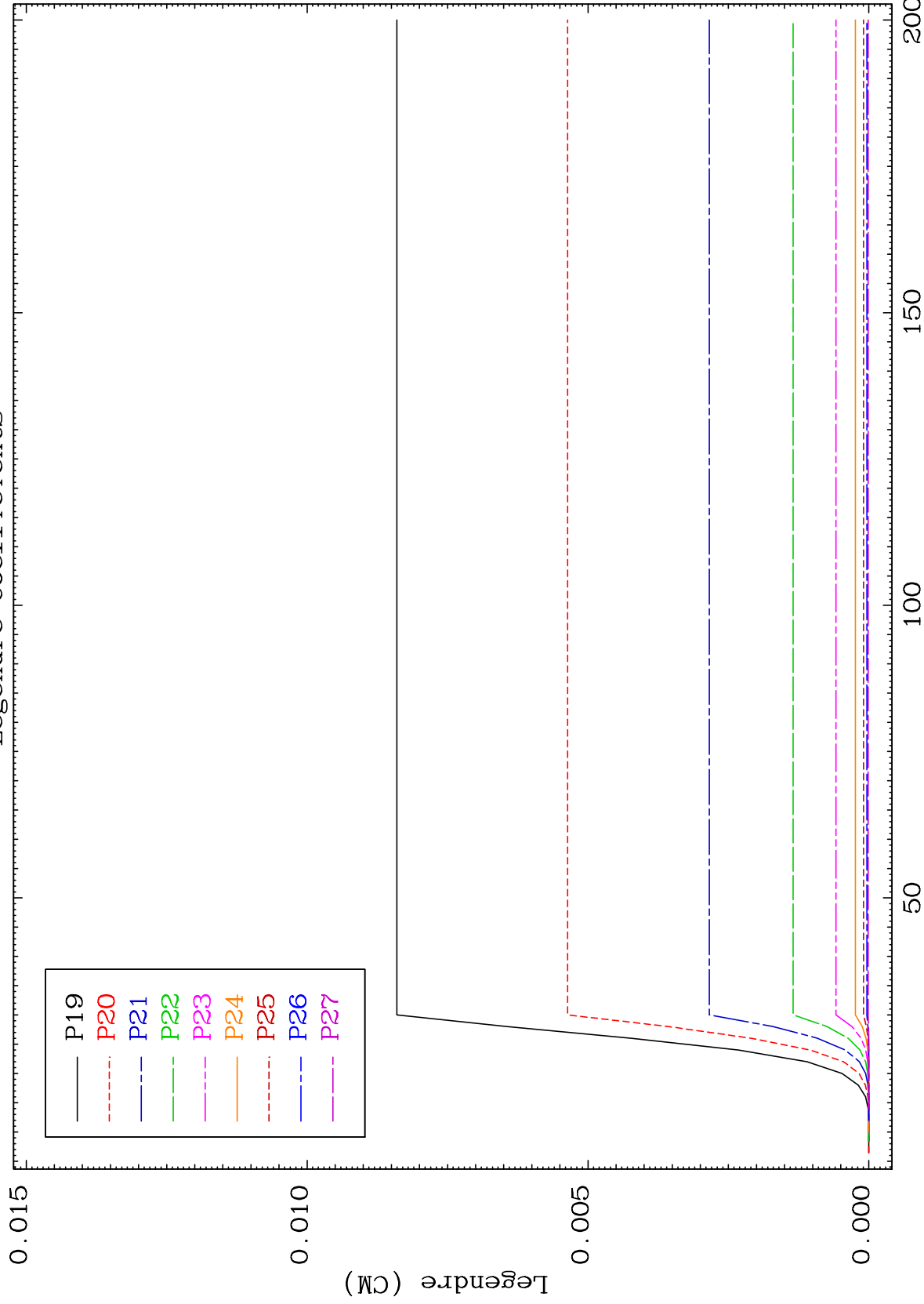
21

54-Xe-130

MAT 5443

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

54-Xe-130



22

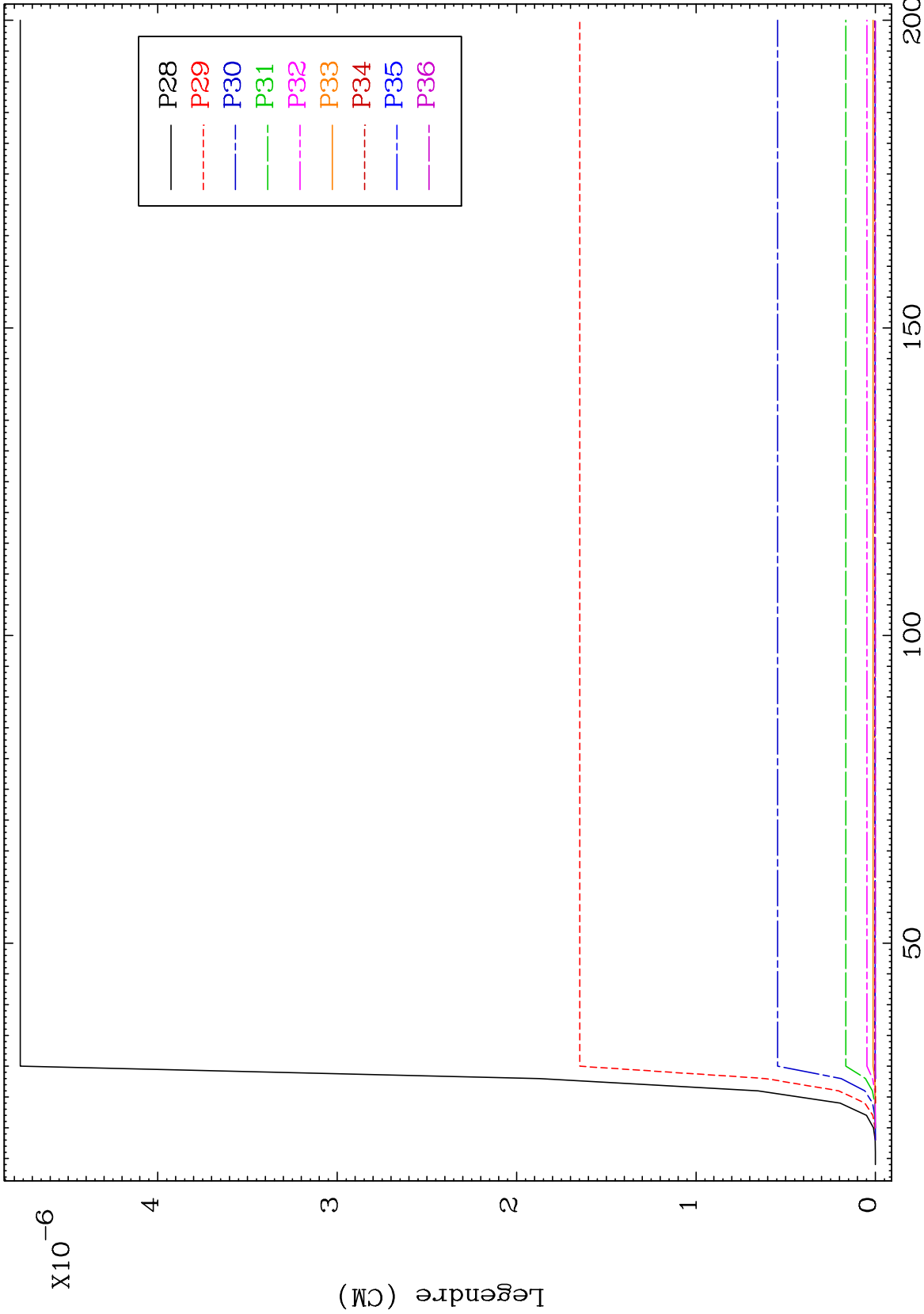
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

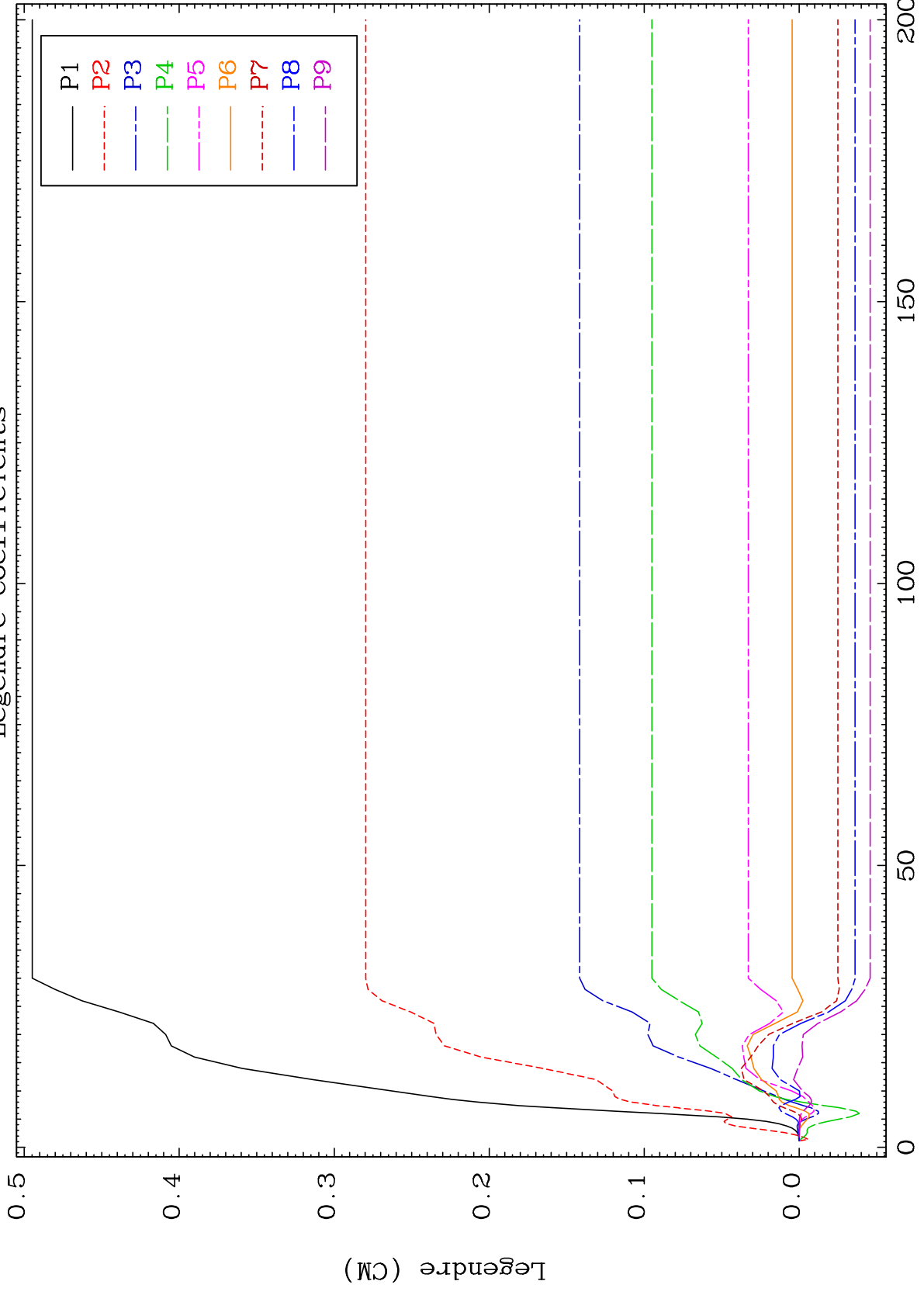
54-Xe-130



23

54-Xe-130

MAT 5443 MT= 52 (n,n') Level Legendre Coefficients 54-Xe-130

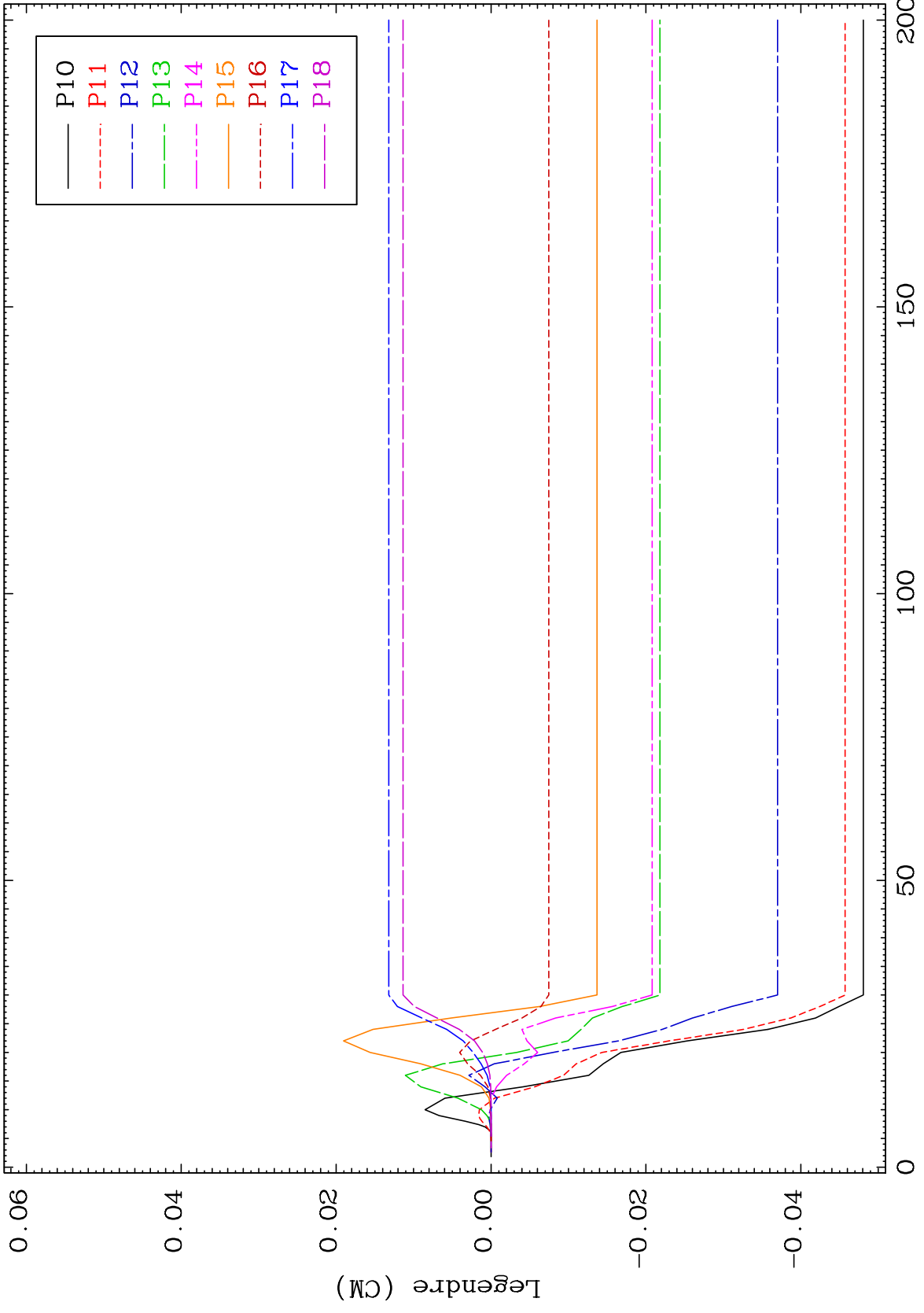


24 54-Xe-130

MAT 5443

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

54-Xe-130



25

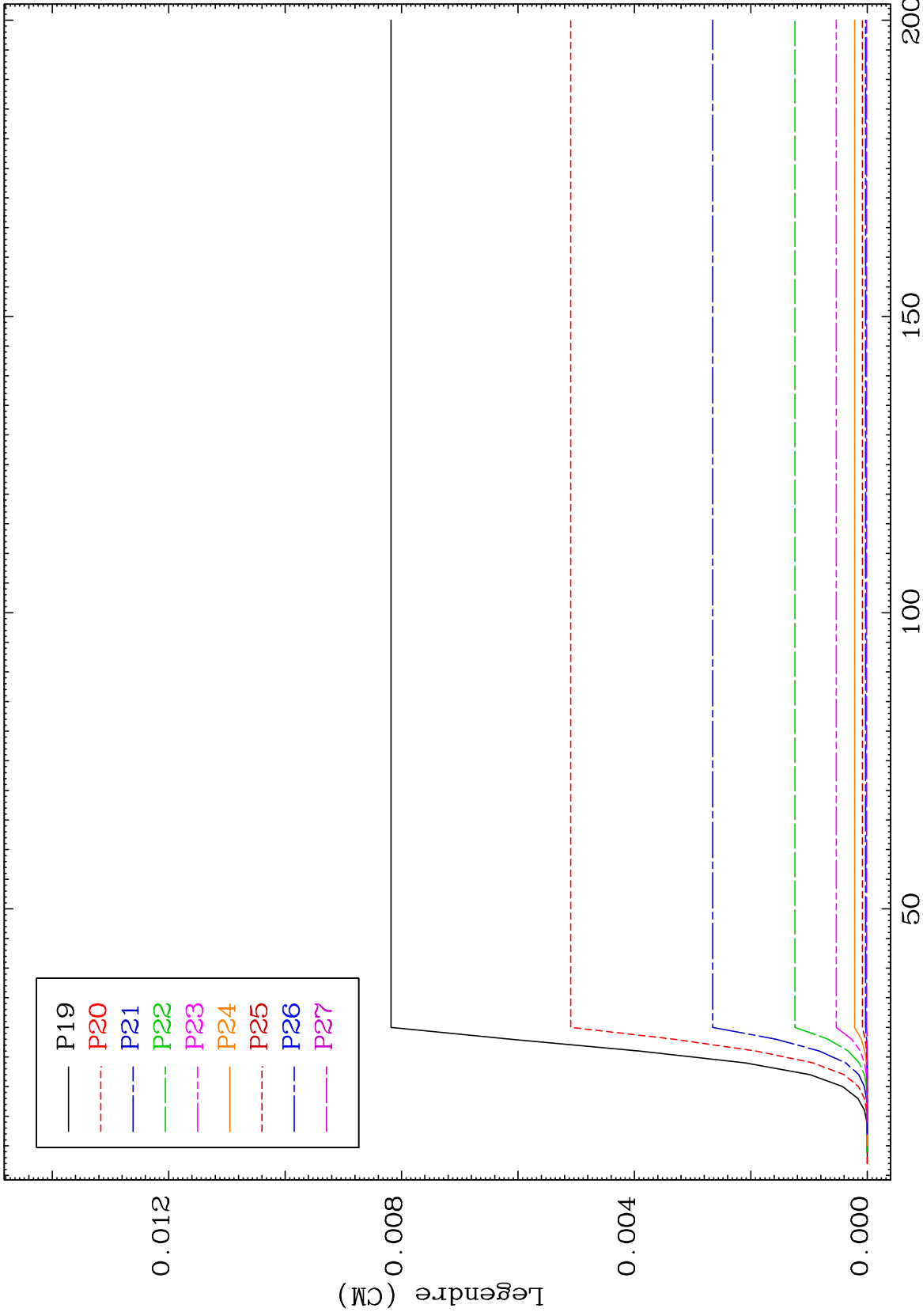
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



26

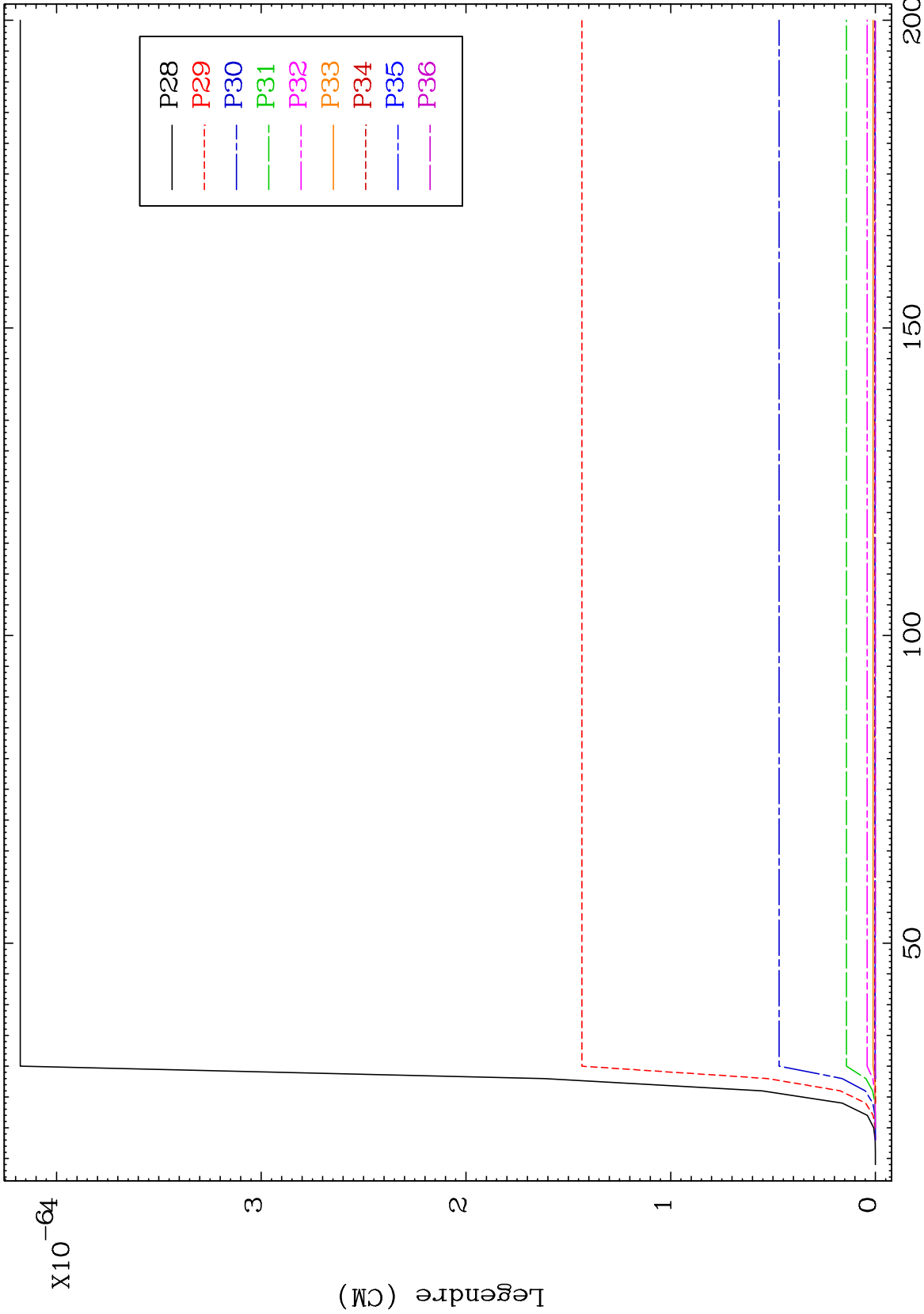
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



27

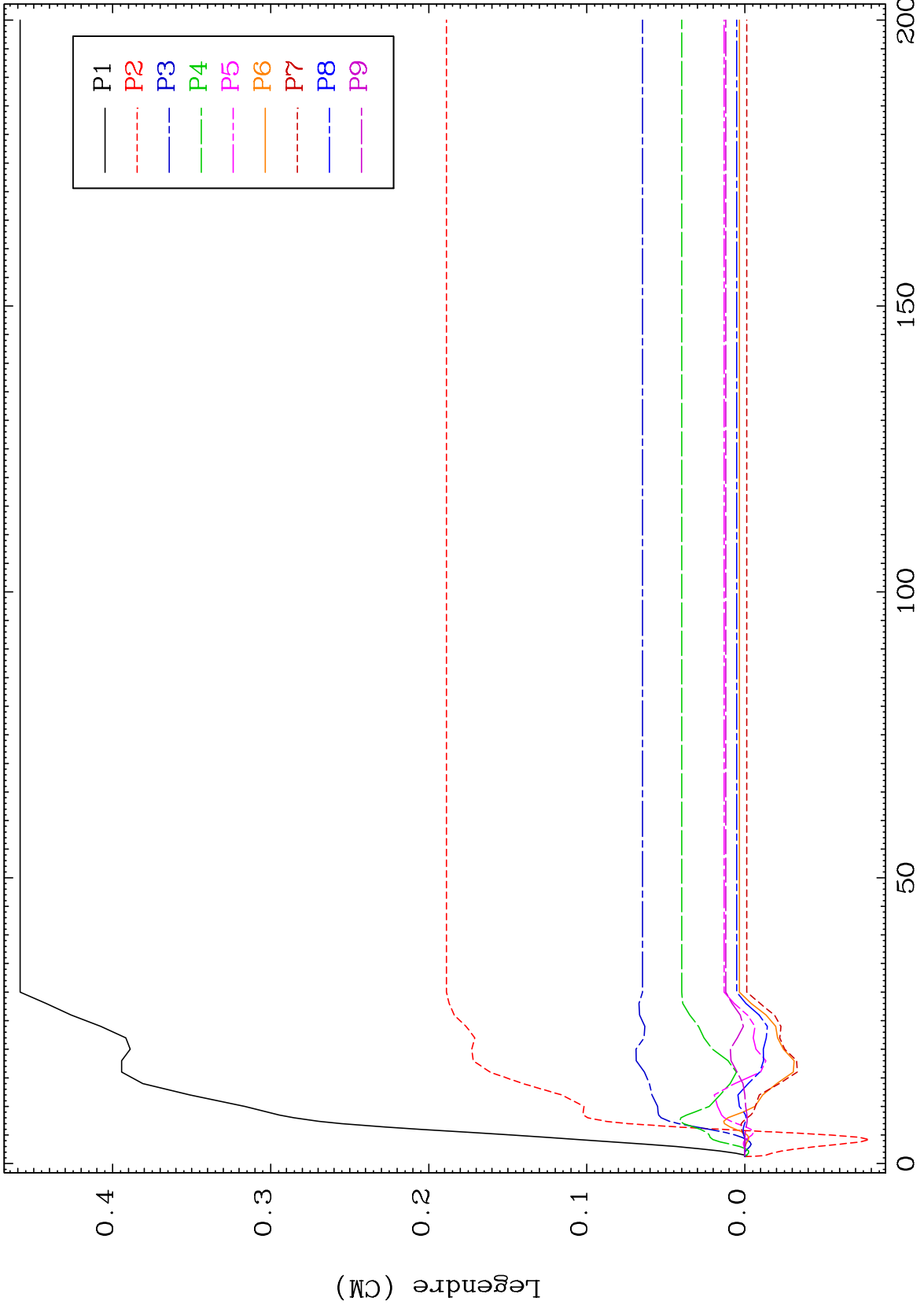
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



28

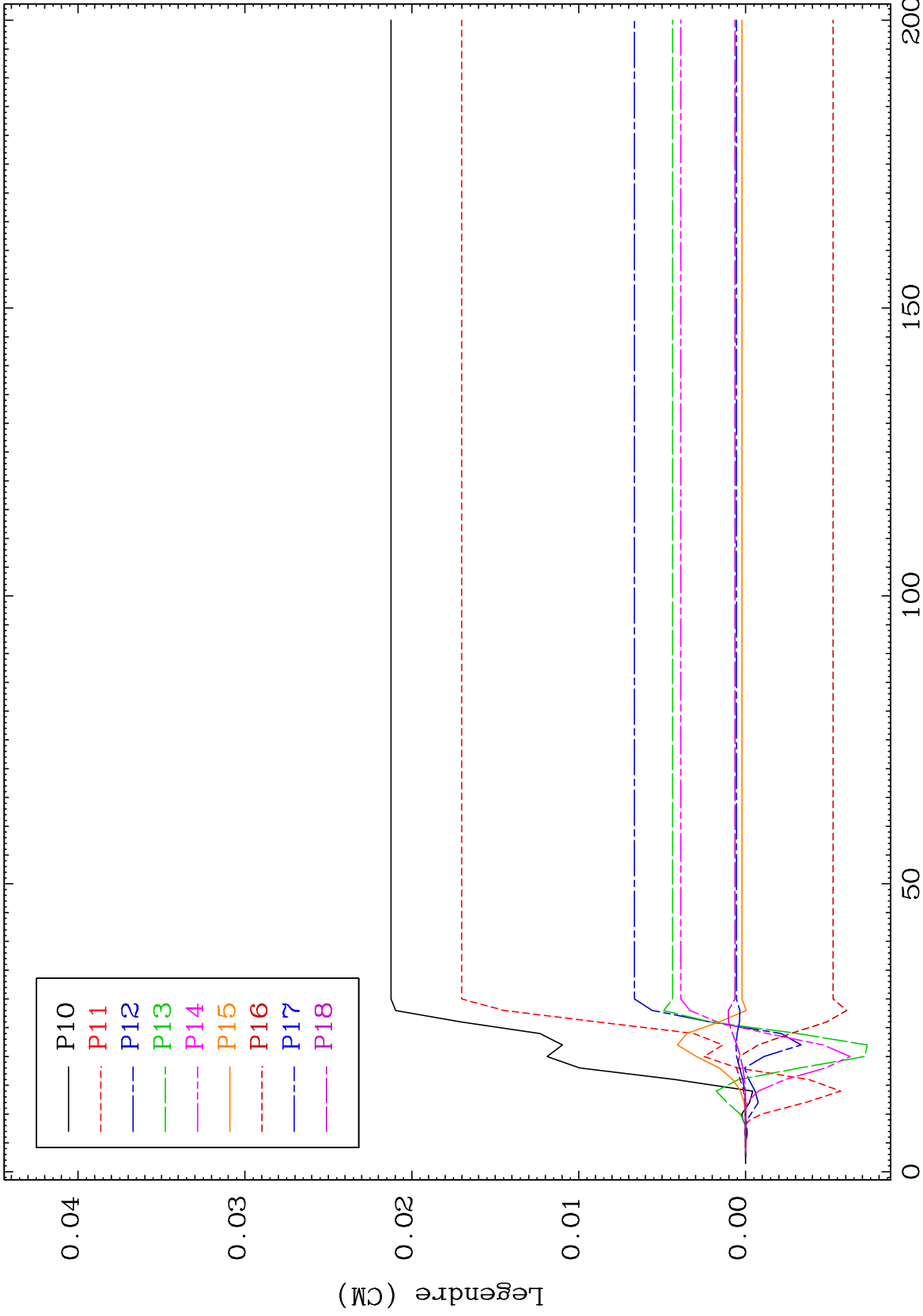
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



29

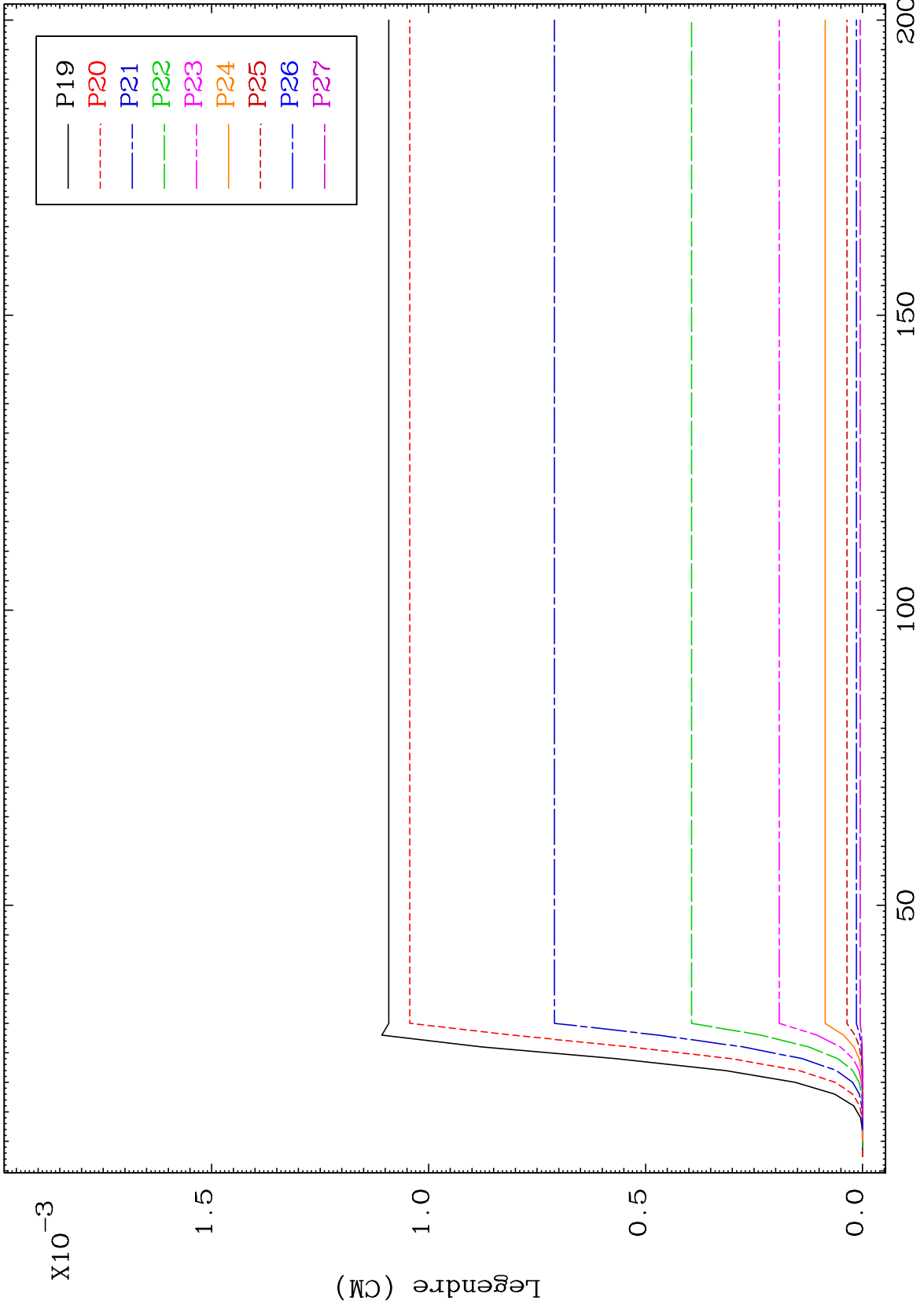
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



30

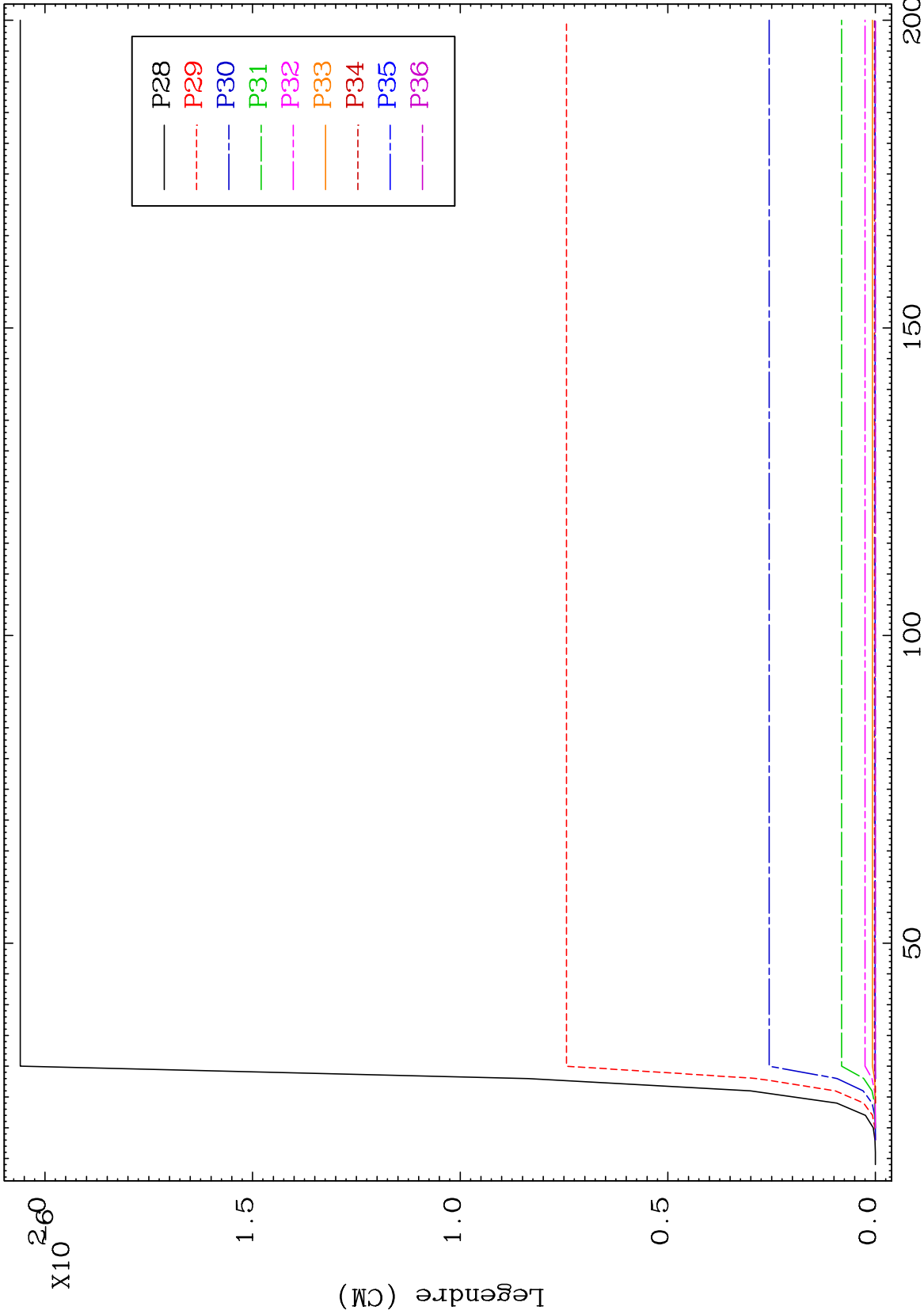
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130

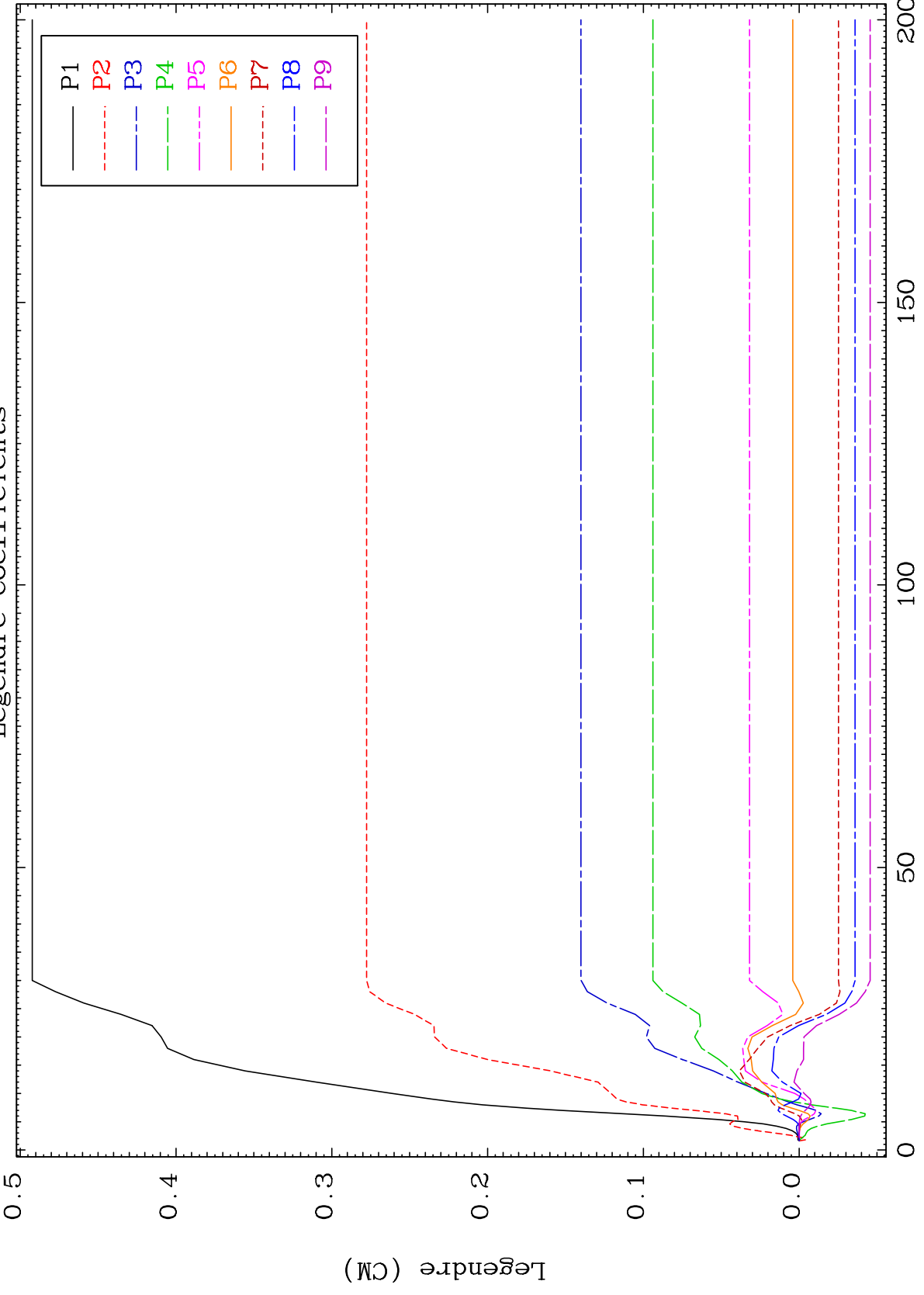


31

Incident Energy (MeV)

54-Xe-130

MAT 5443 MT= 54 (n,n') Level Legendre Coefficients 54-Xe-130

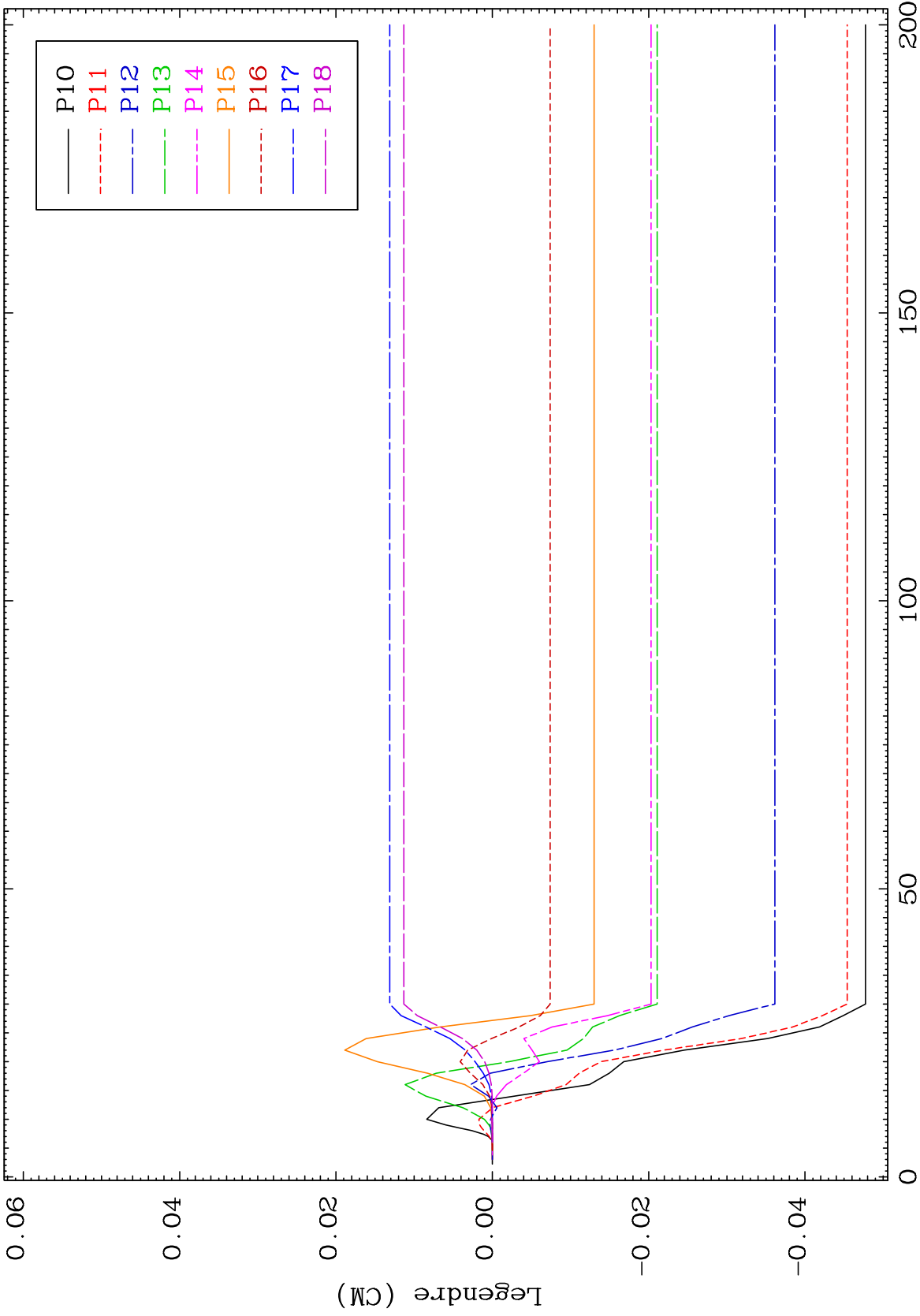


32 54-Xe-130

MAT 5443

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

54-Xe-130



33

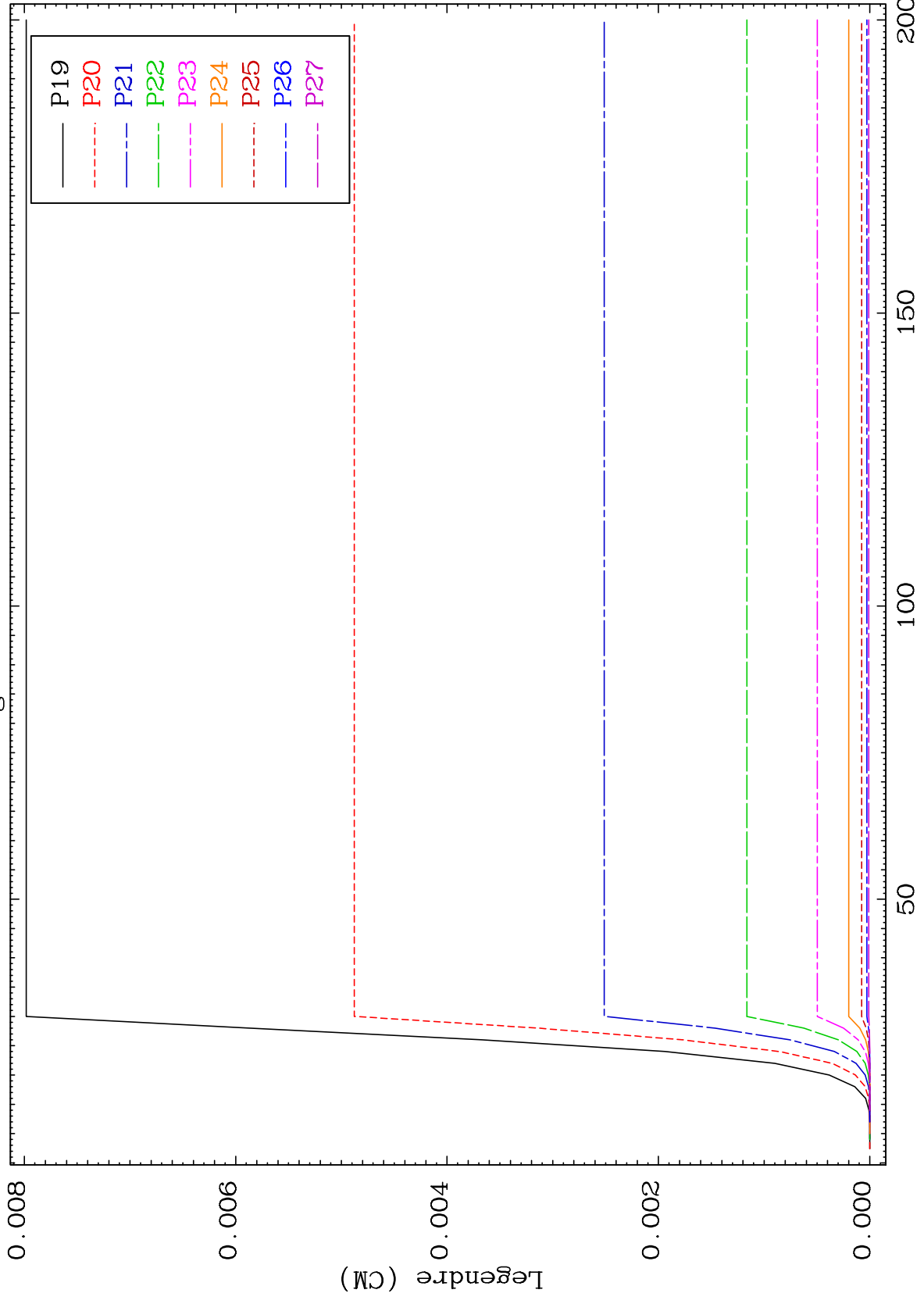
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



34

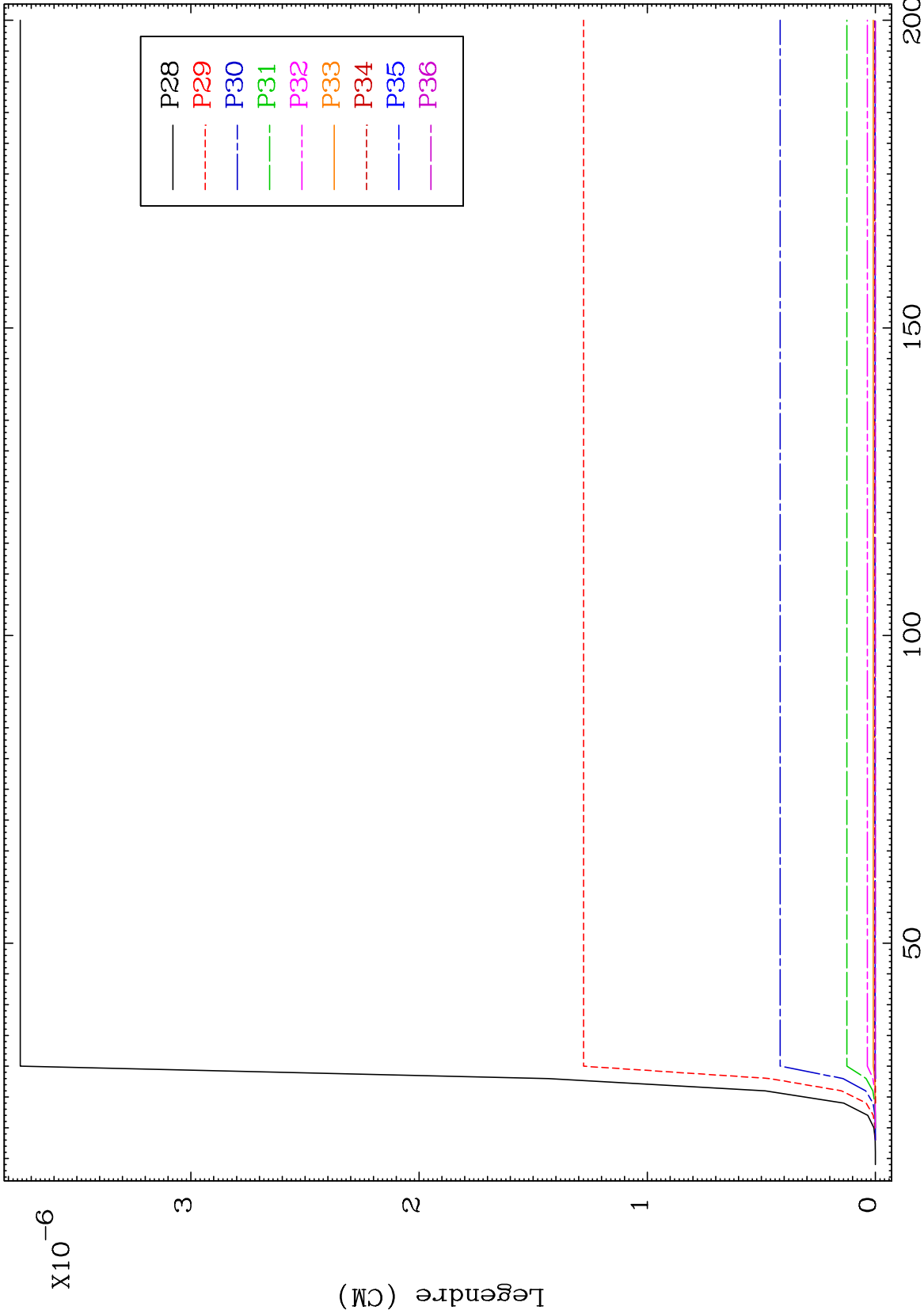
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



35

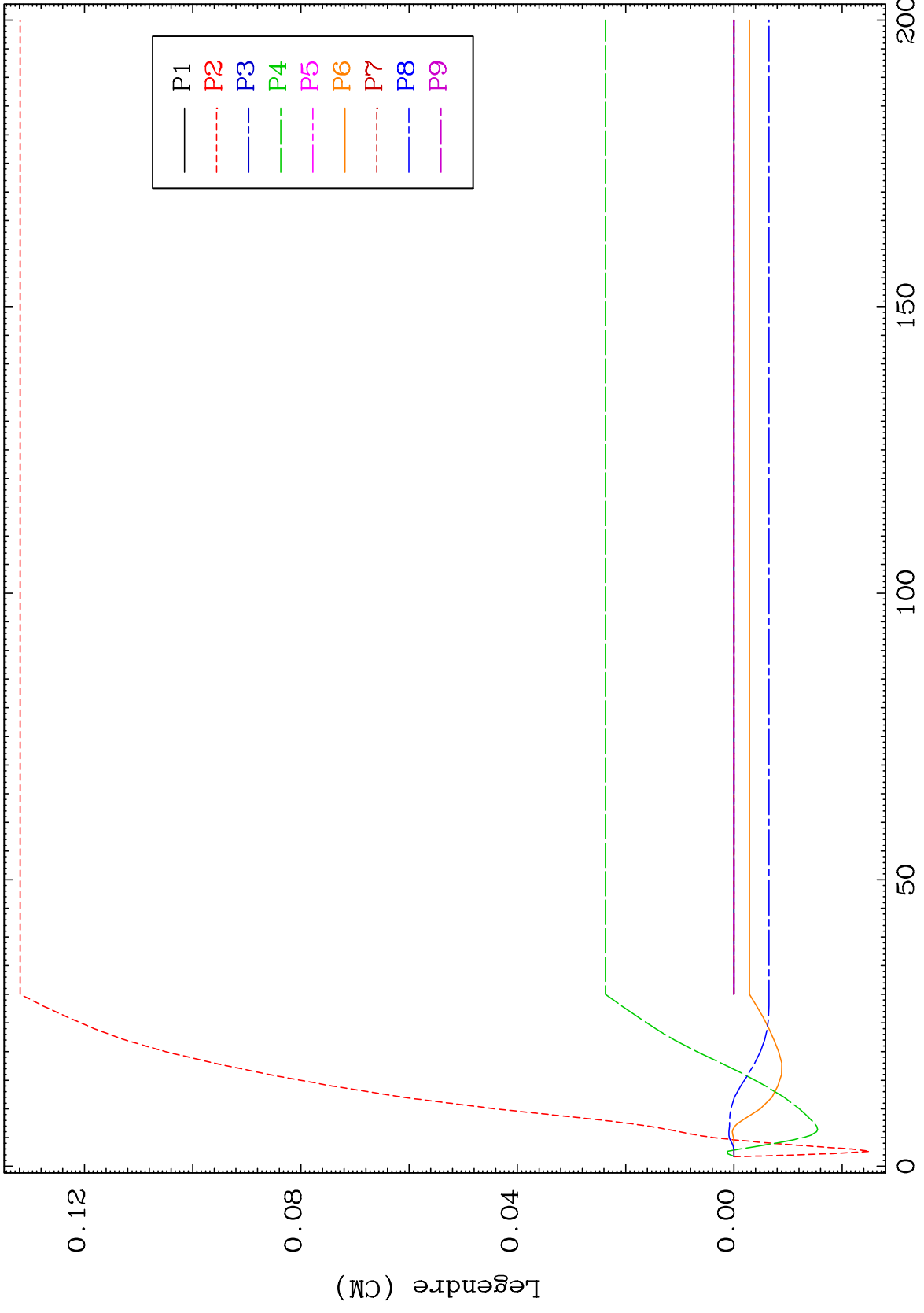
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



36

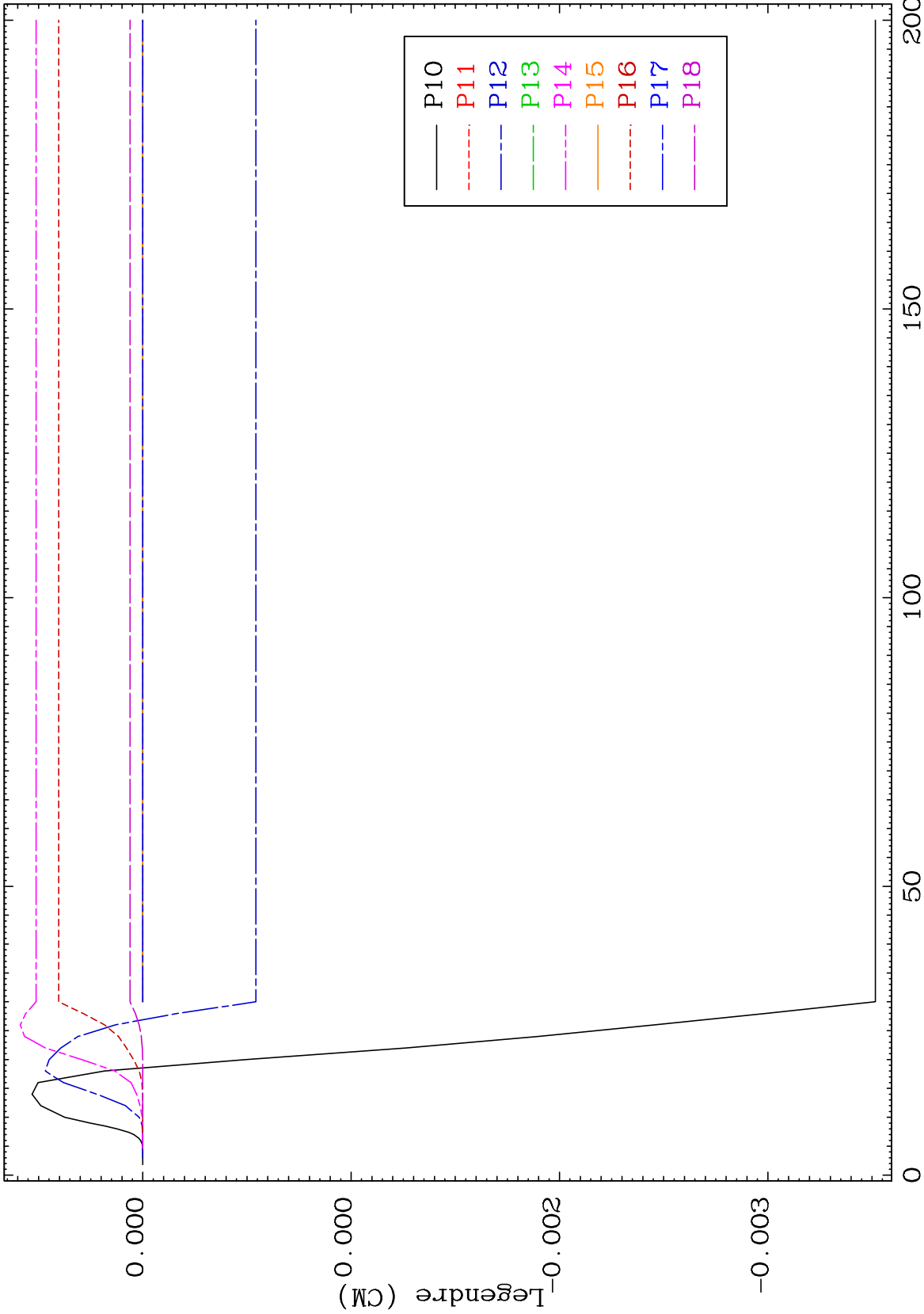
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



37

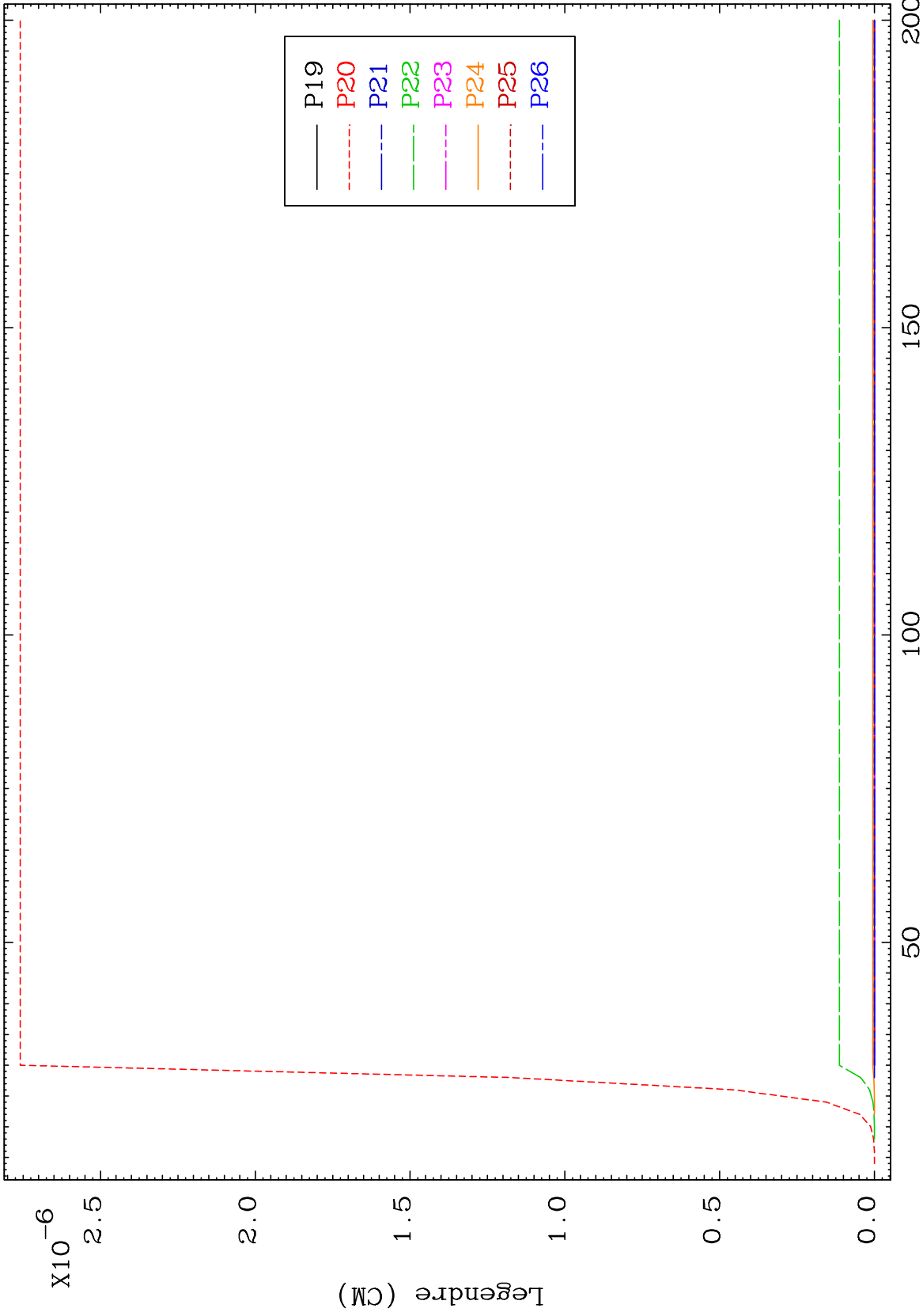
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130

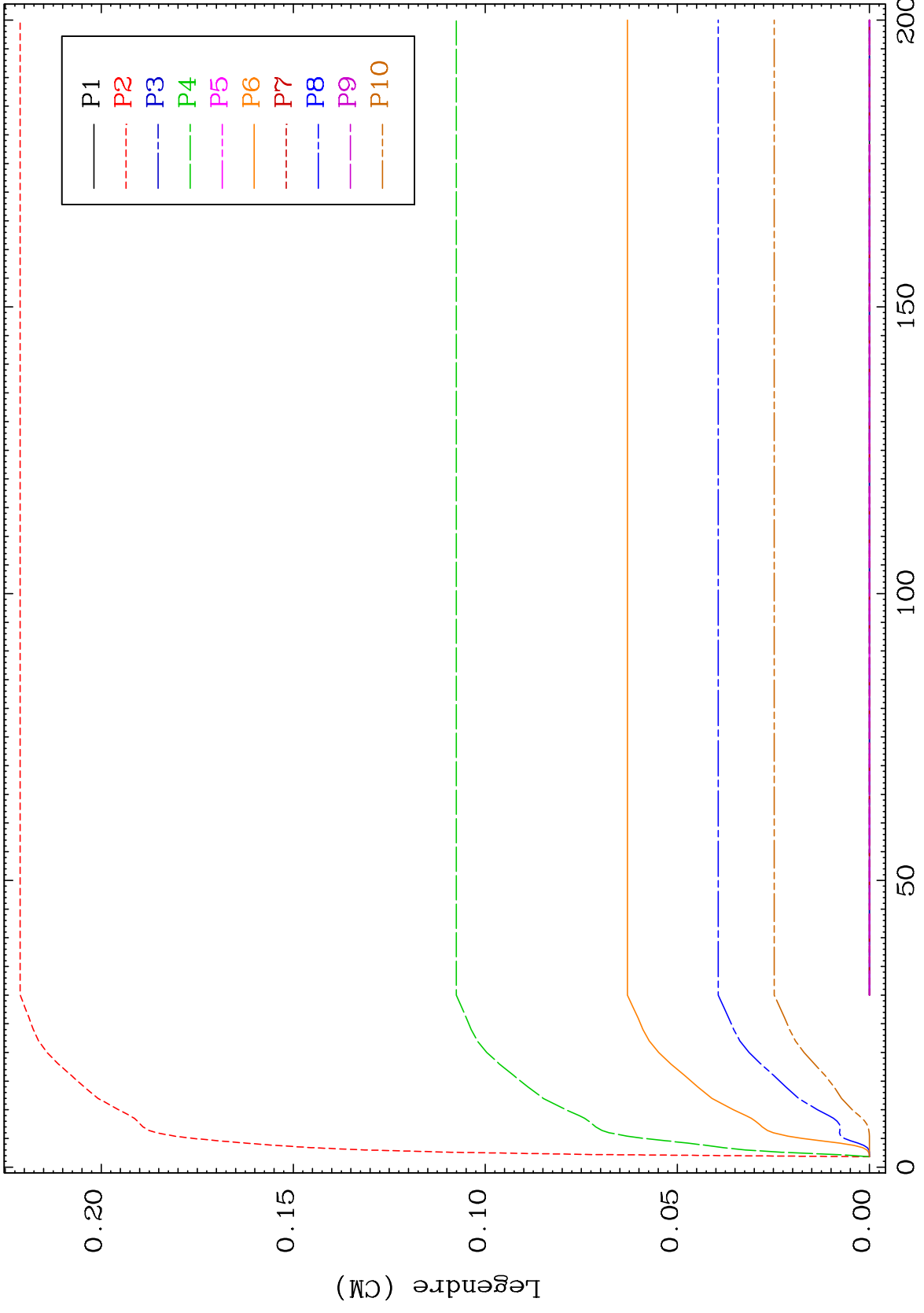


38

Incident Energy (MeV)

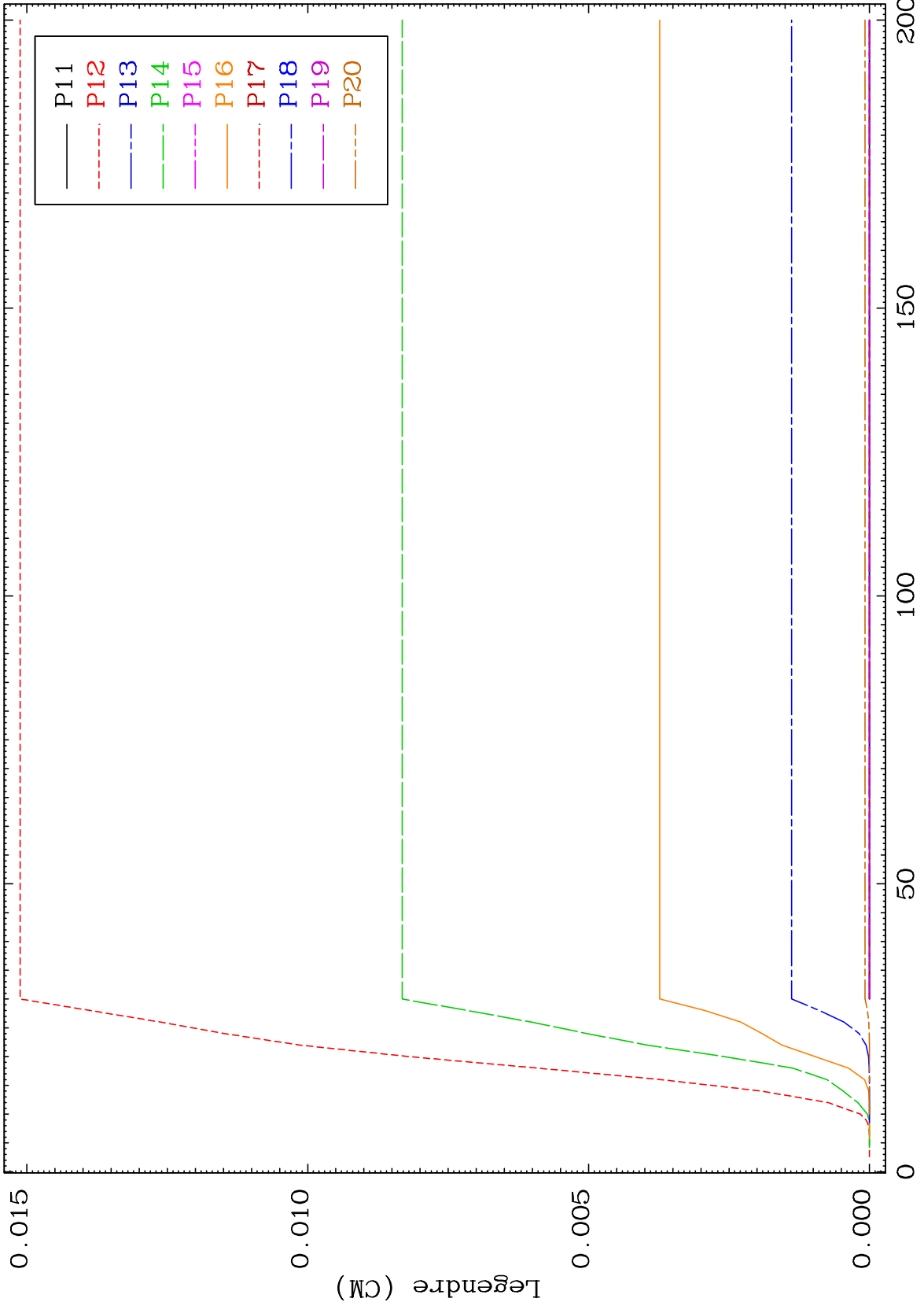
54-Xe-130

MAT 5443 MT= 56 (n,n') Level Legendre Coefficients 54-Xe-130



39 54-Xe-130

MAT 5443 MT= 56 (n,n') Level Legendre Coefficients 54-Xe-130

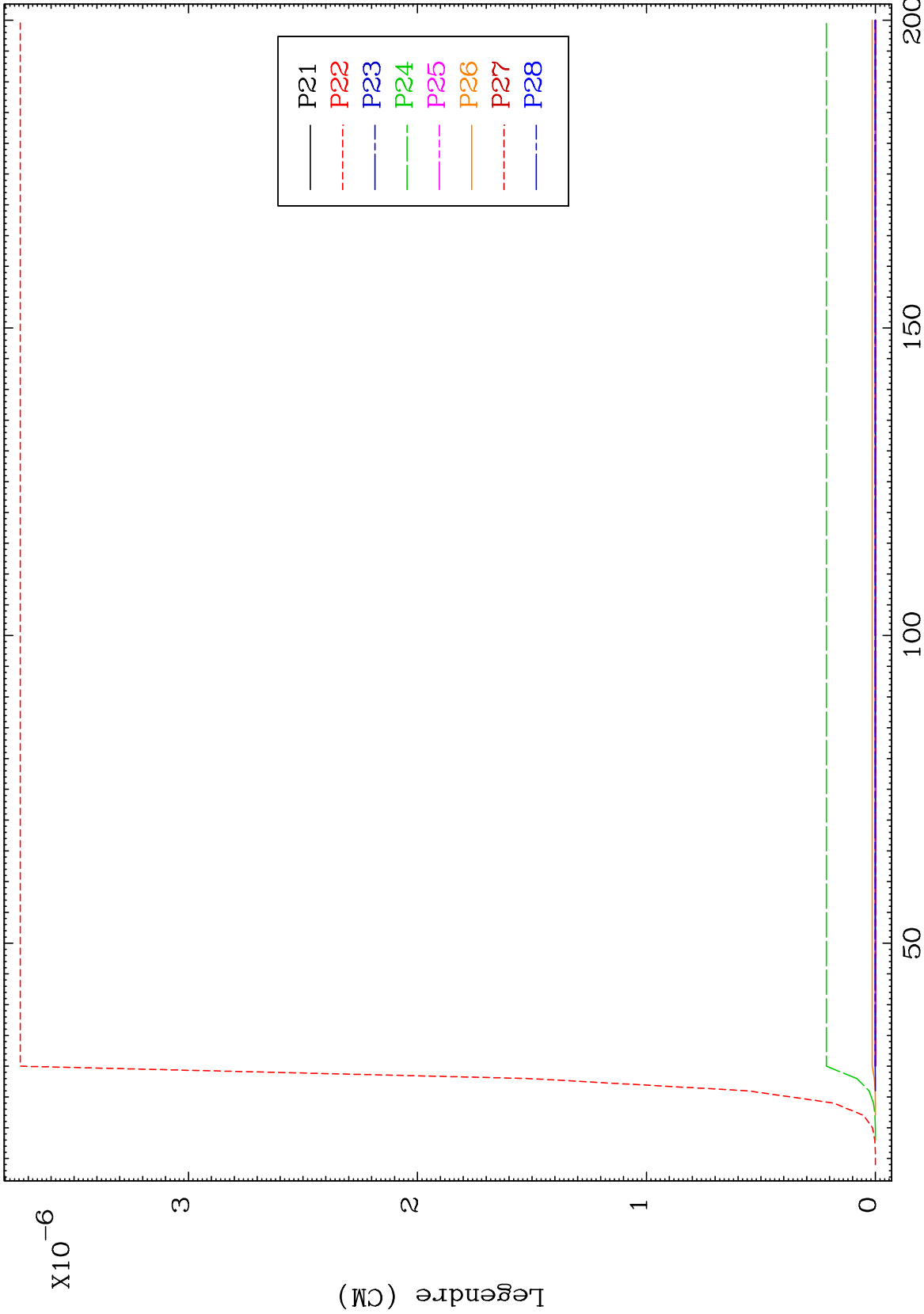


54-Xe-130

MAT 5443

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

54-Xe-130



41

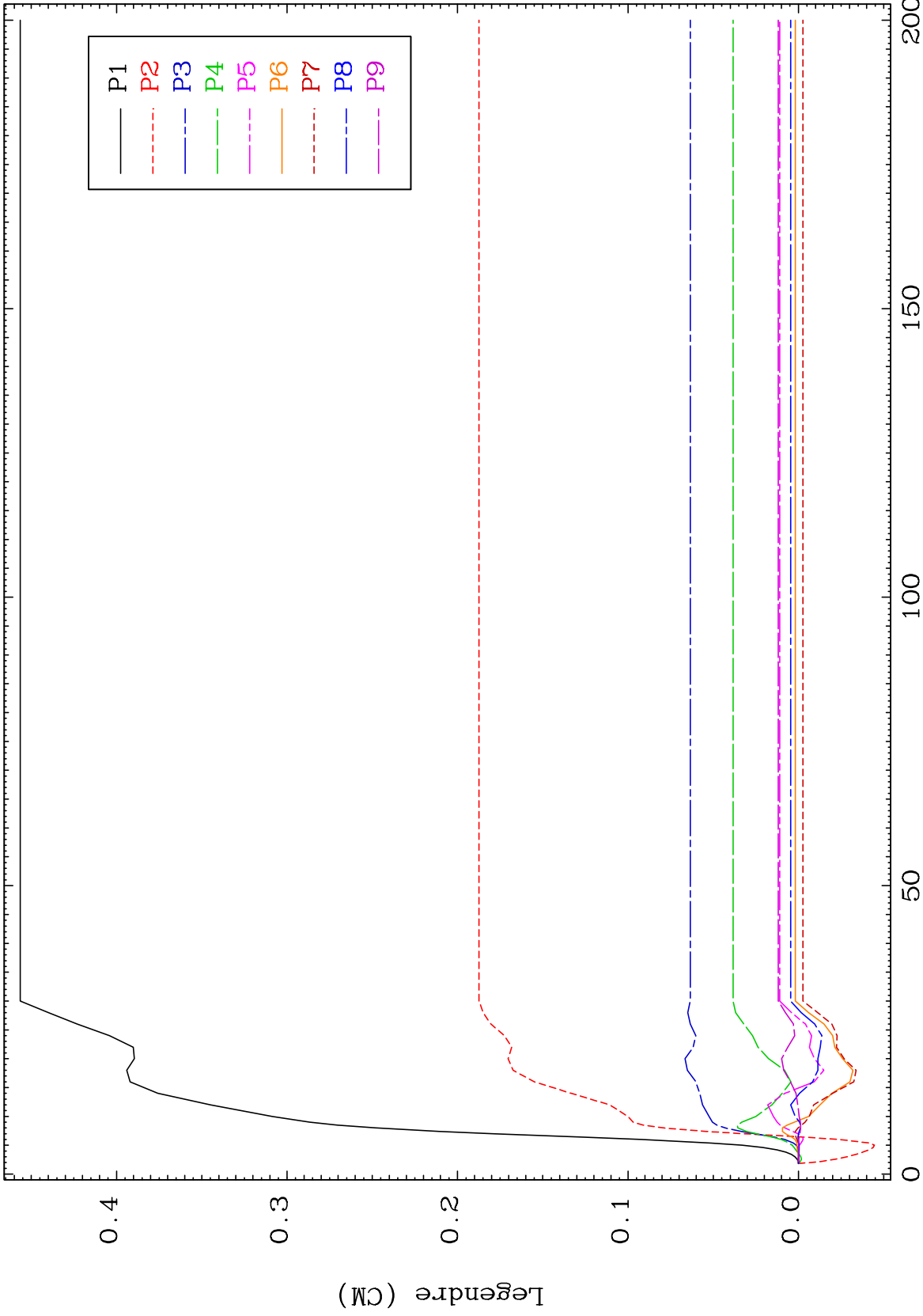
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



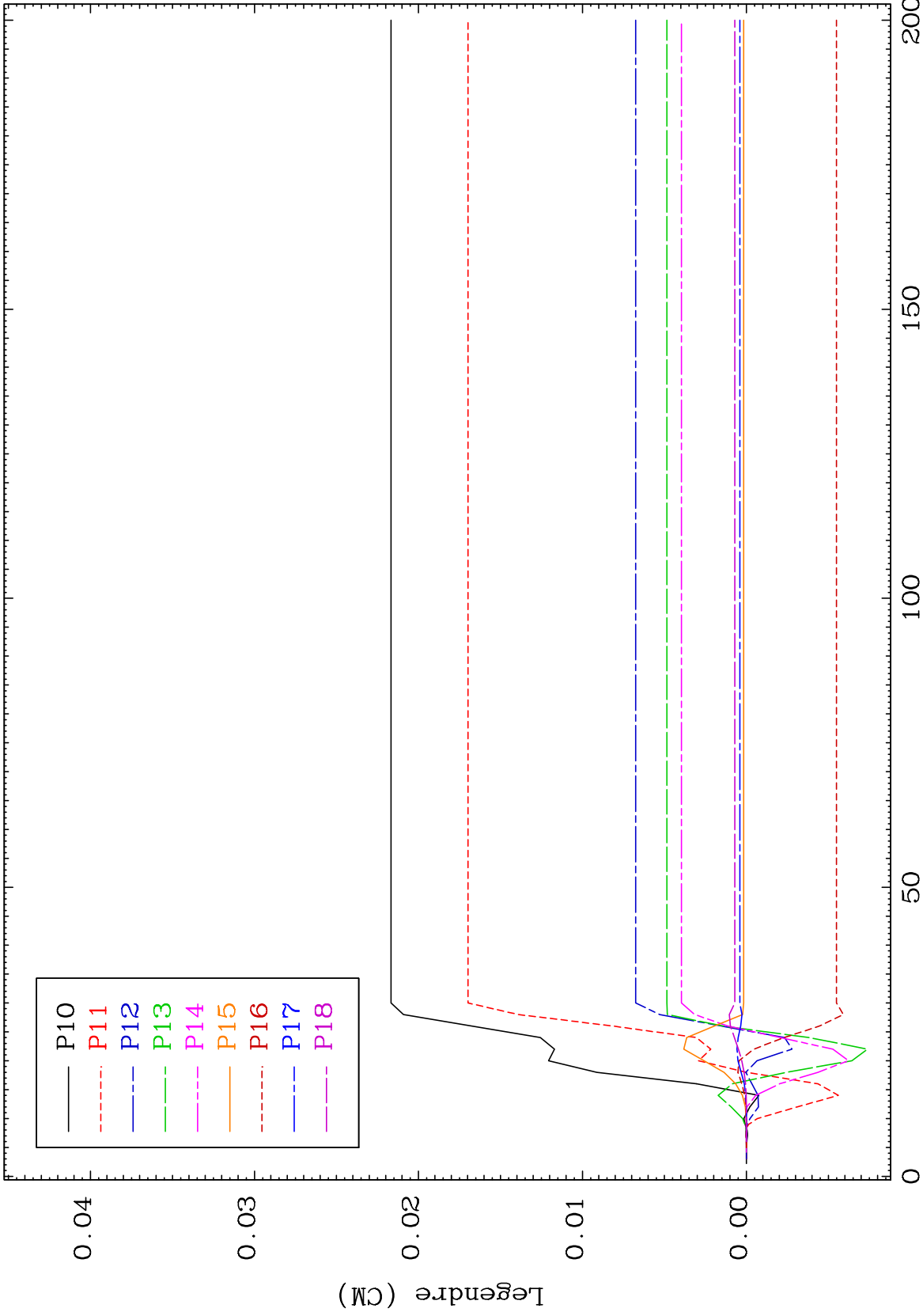
42

54-Xe-130

MAT 5443

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

54-Xe-130



43

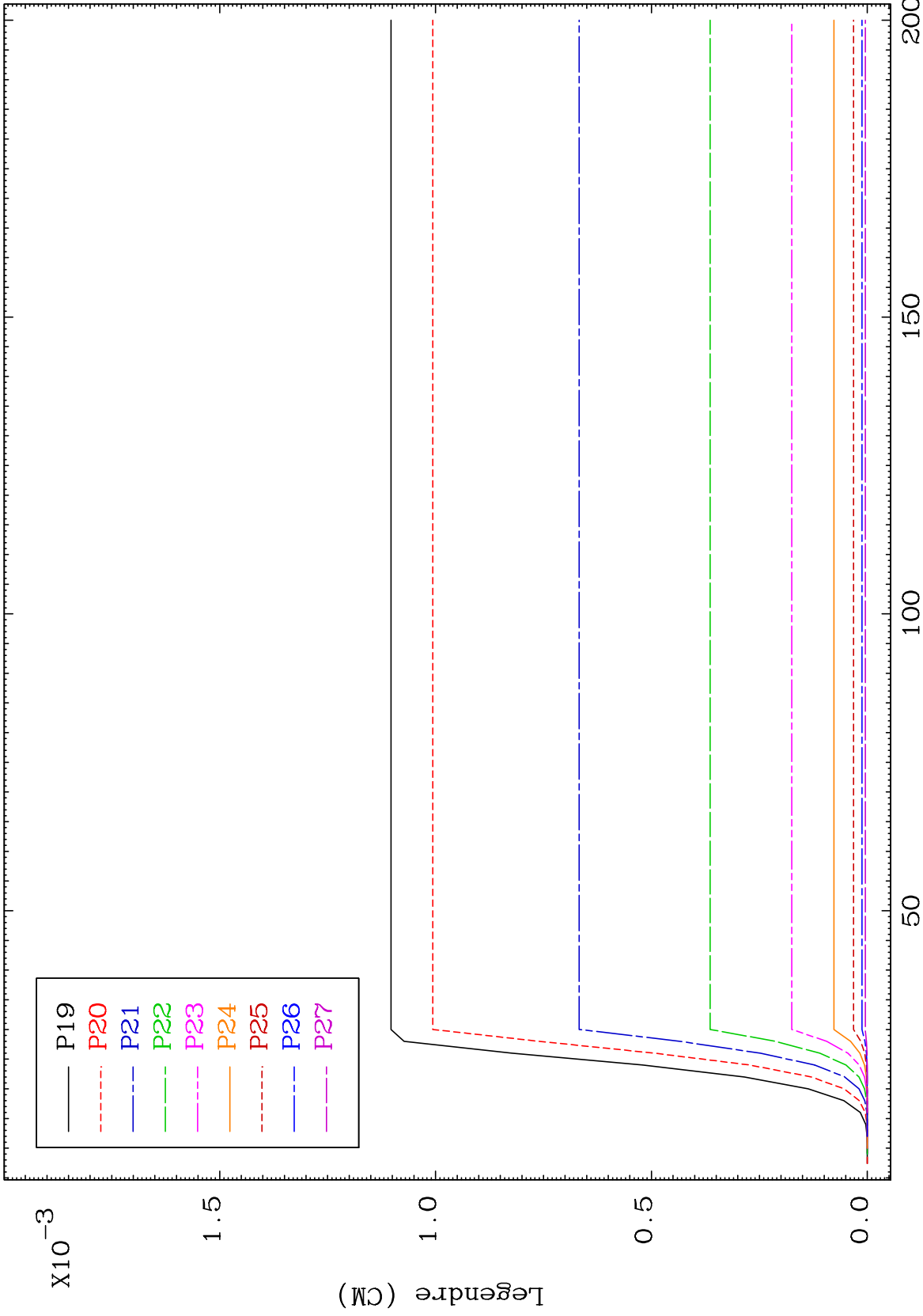
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



44

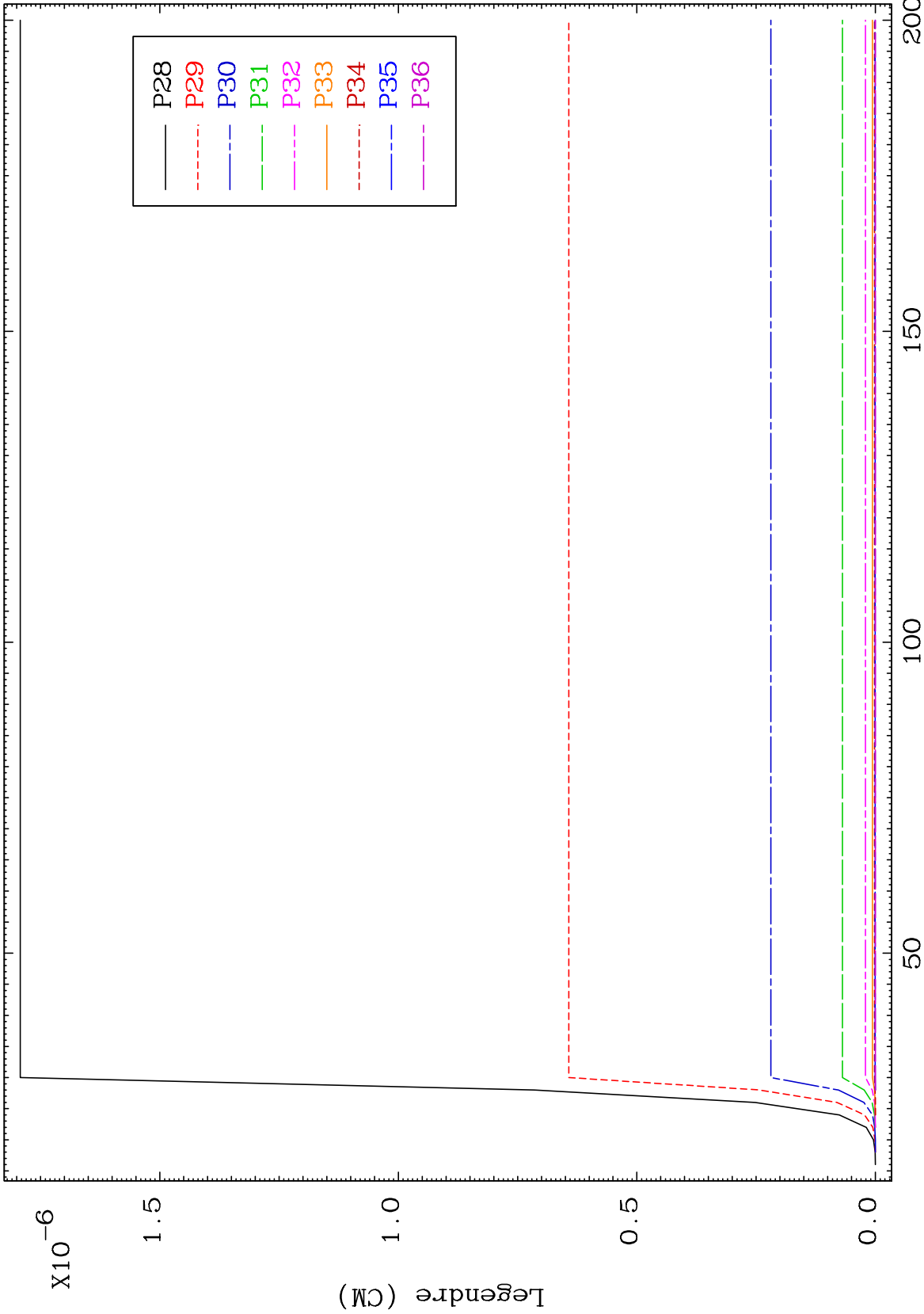
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



45

Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



46

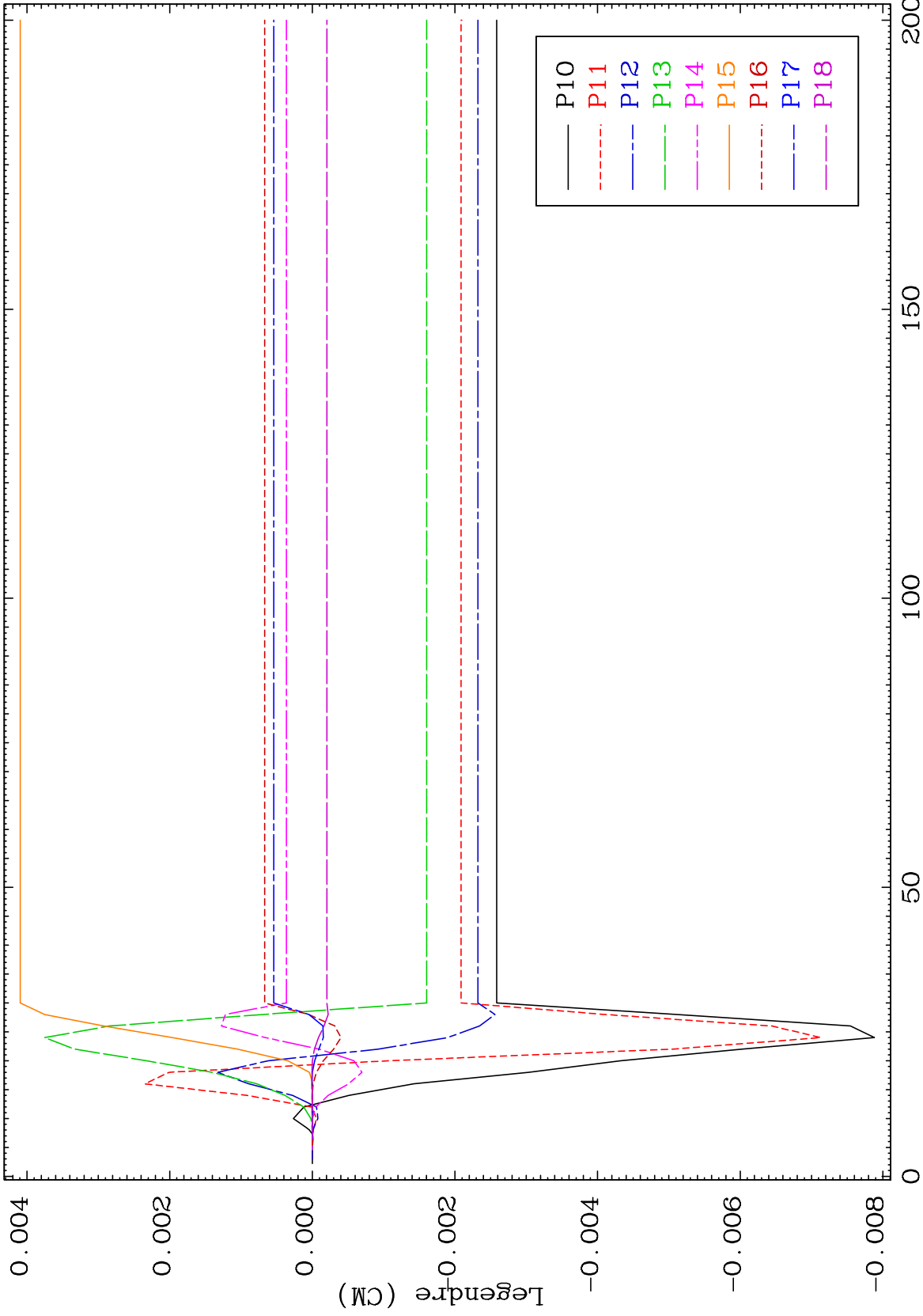
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



47

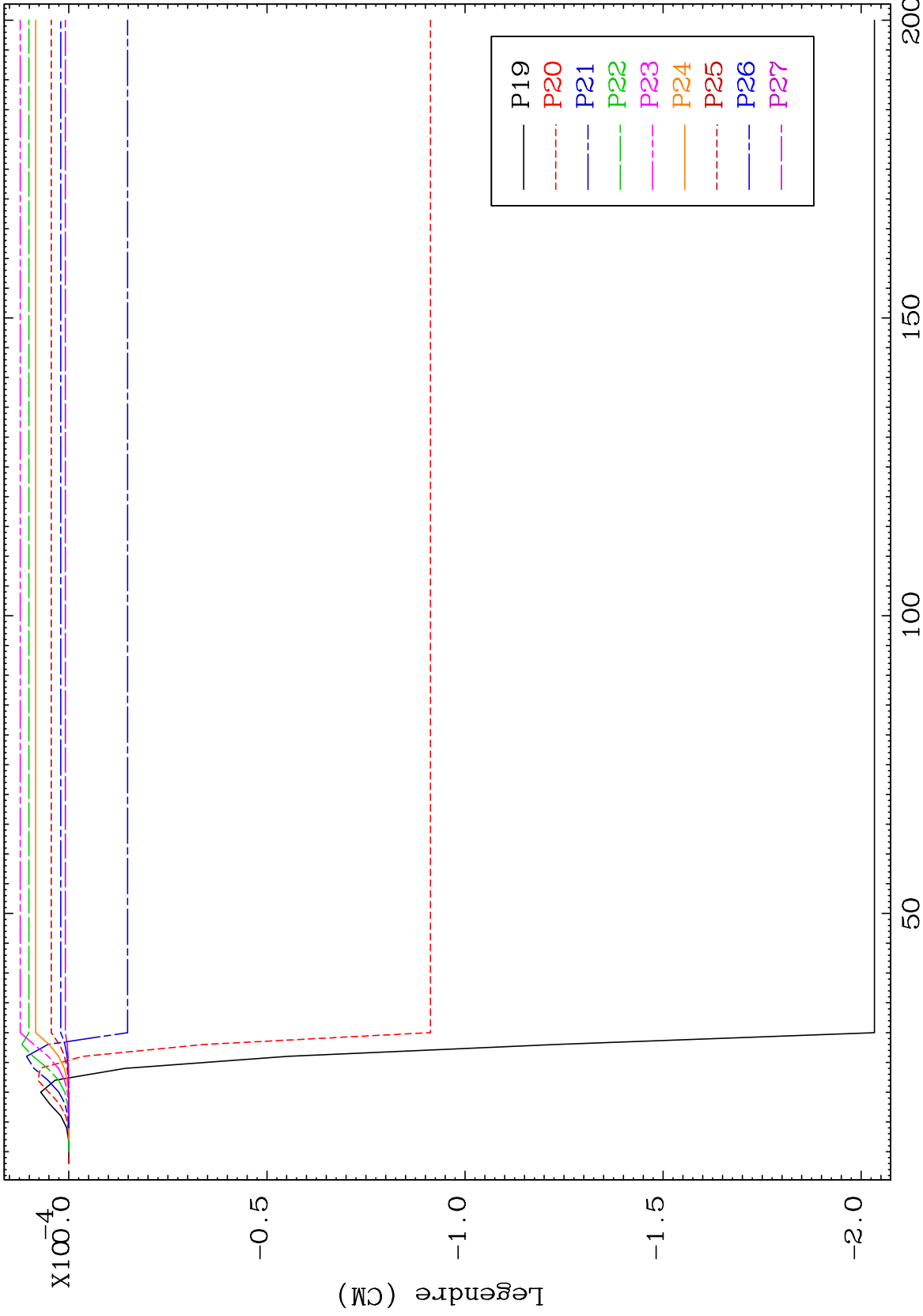
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



48

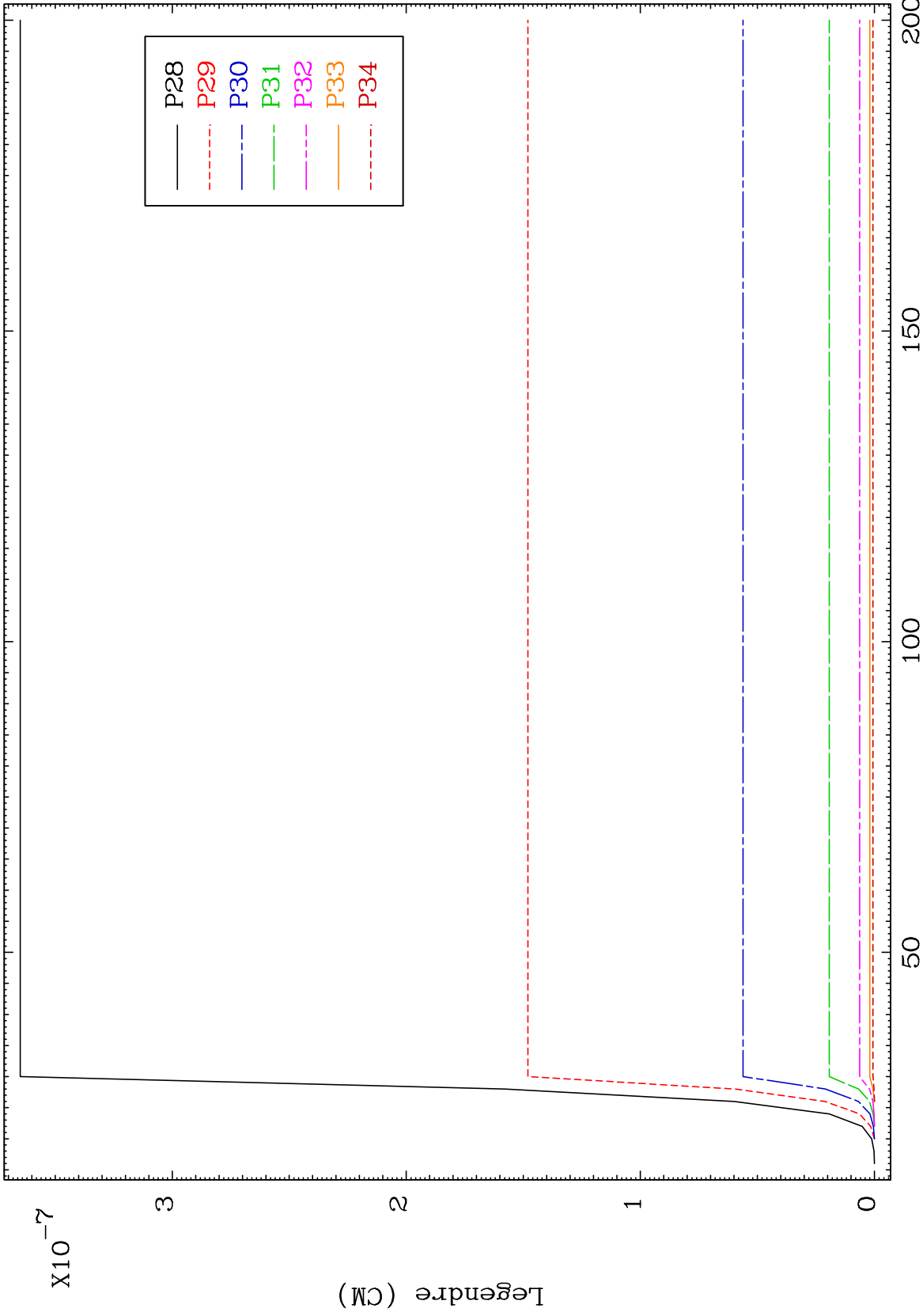
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130

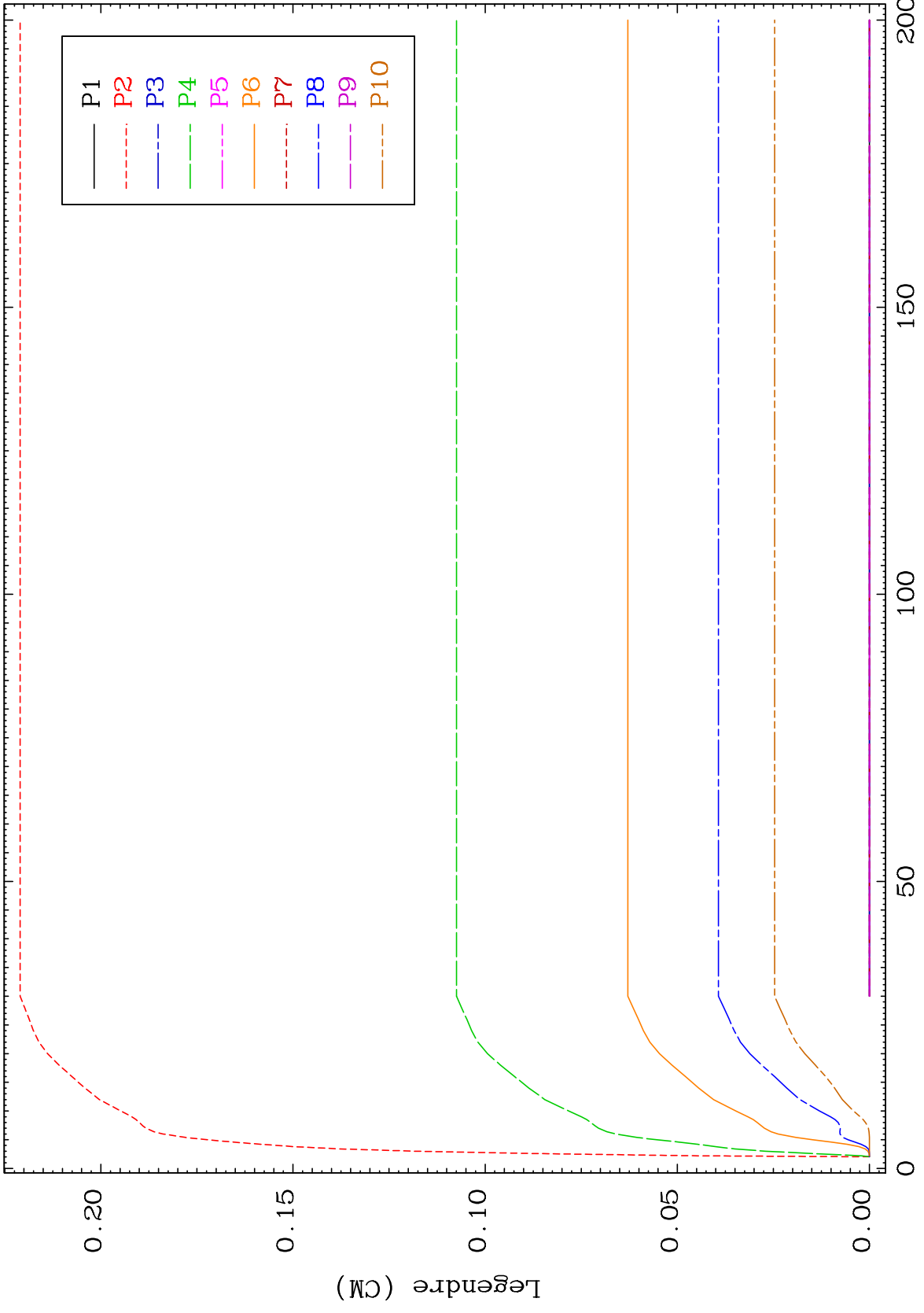


49

Incident Energy (MeV)

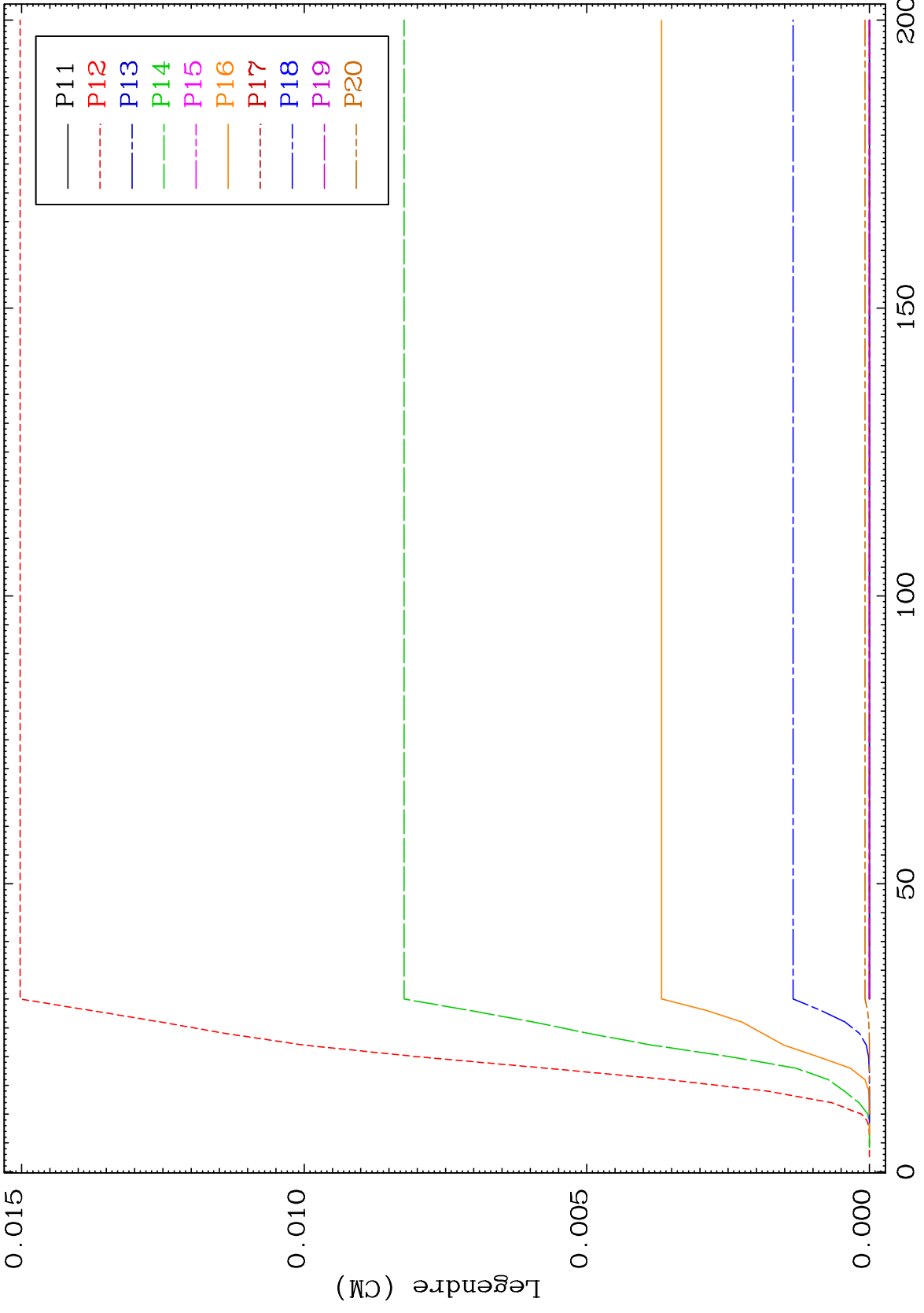
54-Xe-130

MAT 5443 MT= 59 (n,n') Level Legendre Coefficients 54-Xe-130



54-Xe-130

MAT 5443 MT= 59 (n,n') Level Legendre Coefficients 54-Xe-130

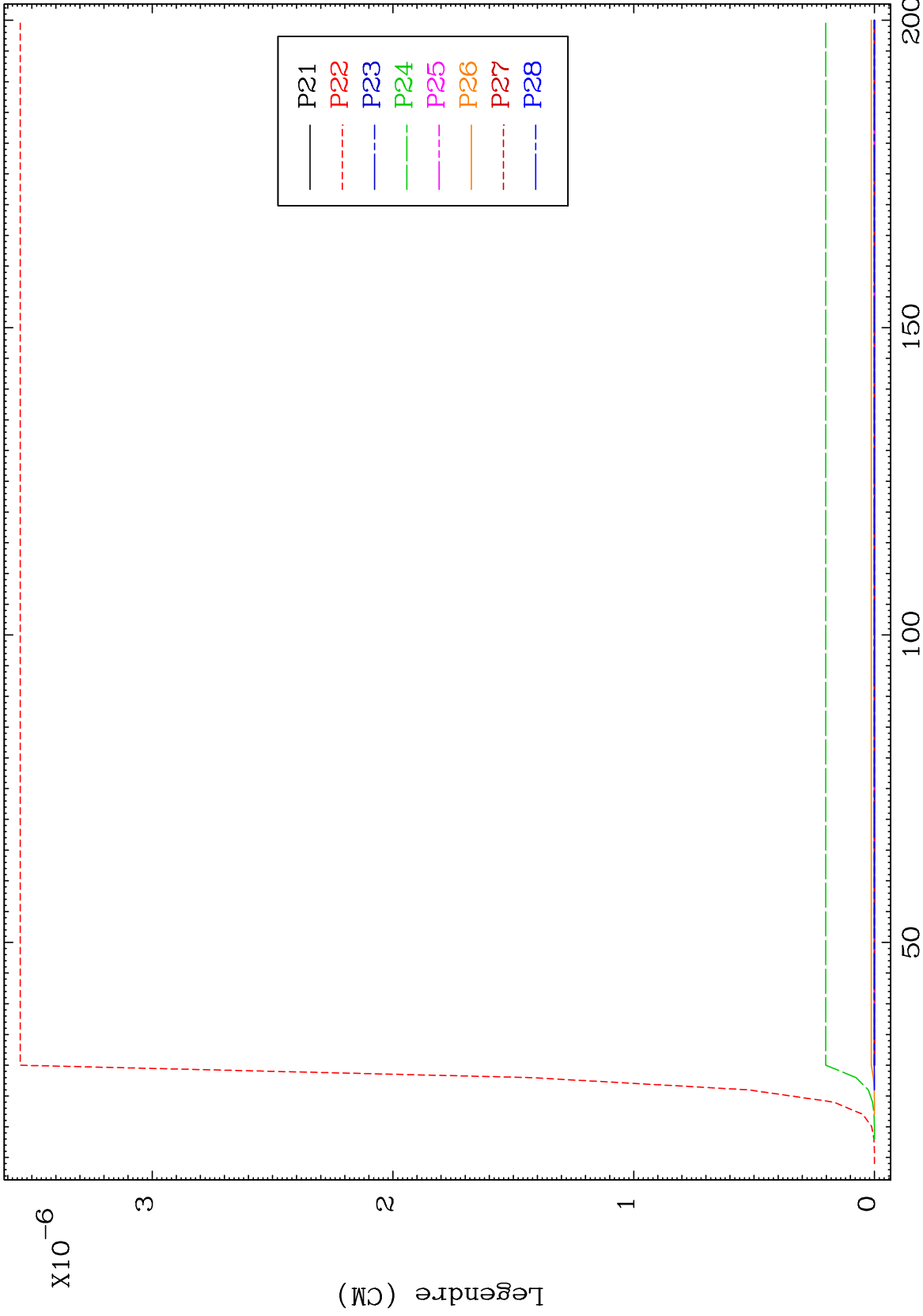


51 54-Xe-130

MAT 5443

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

54-Xe-130



52

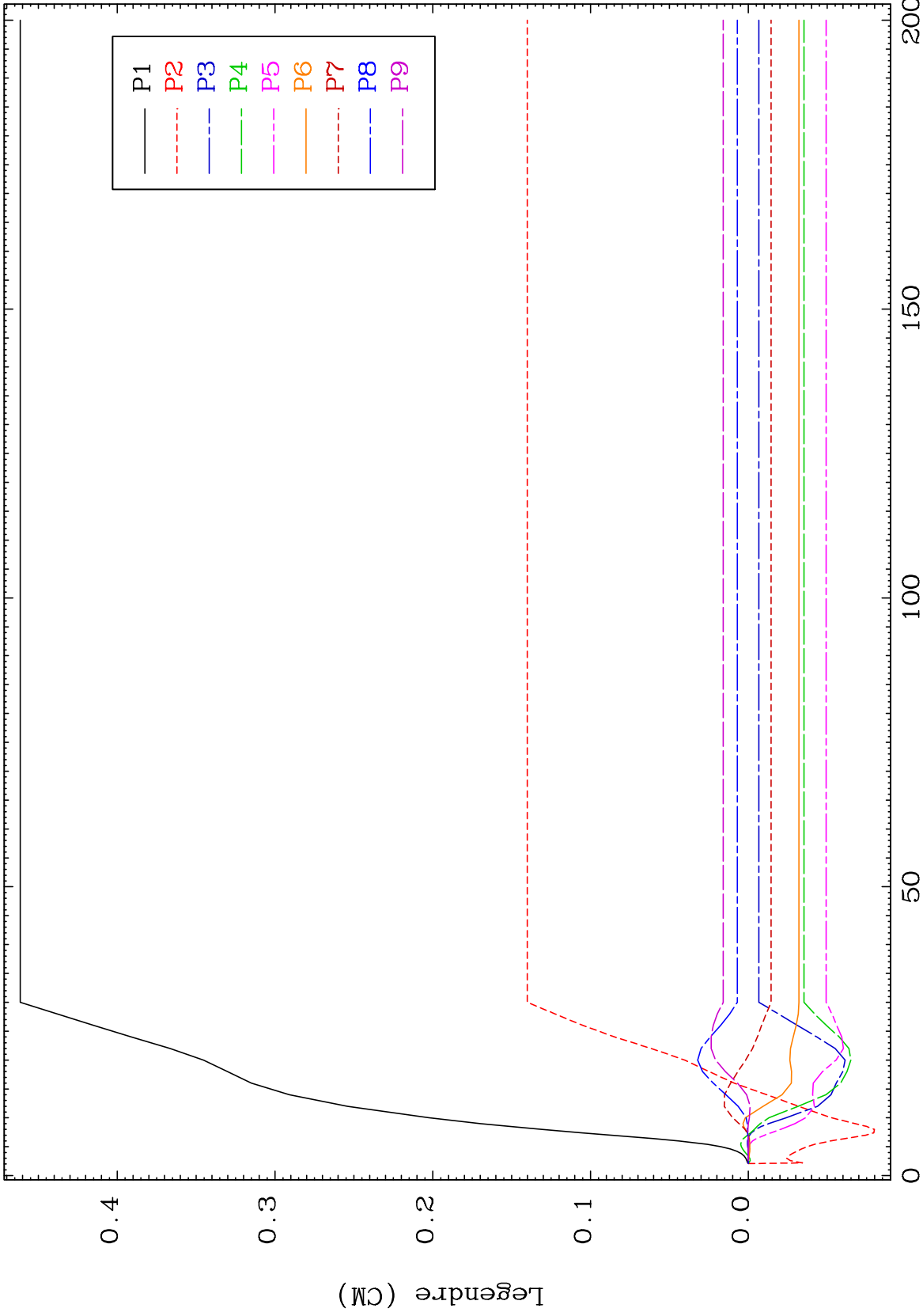
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



53

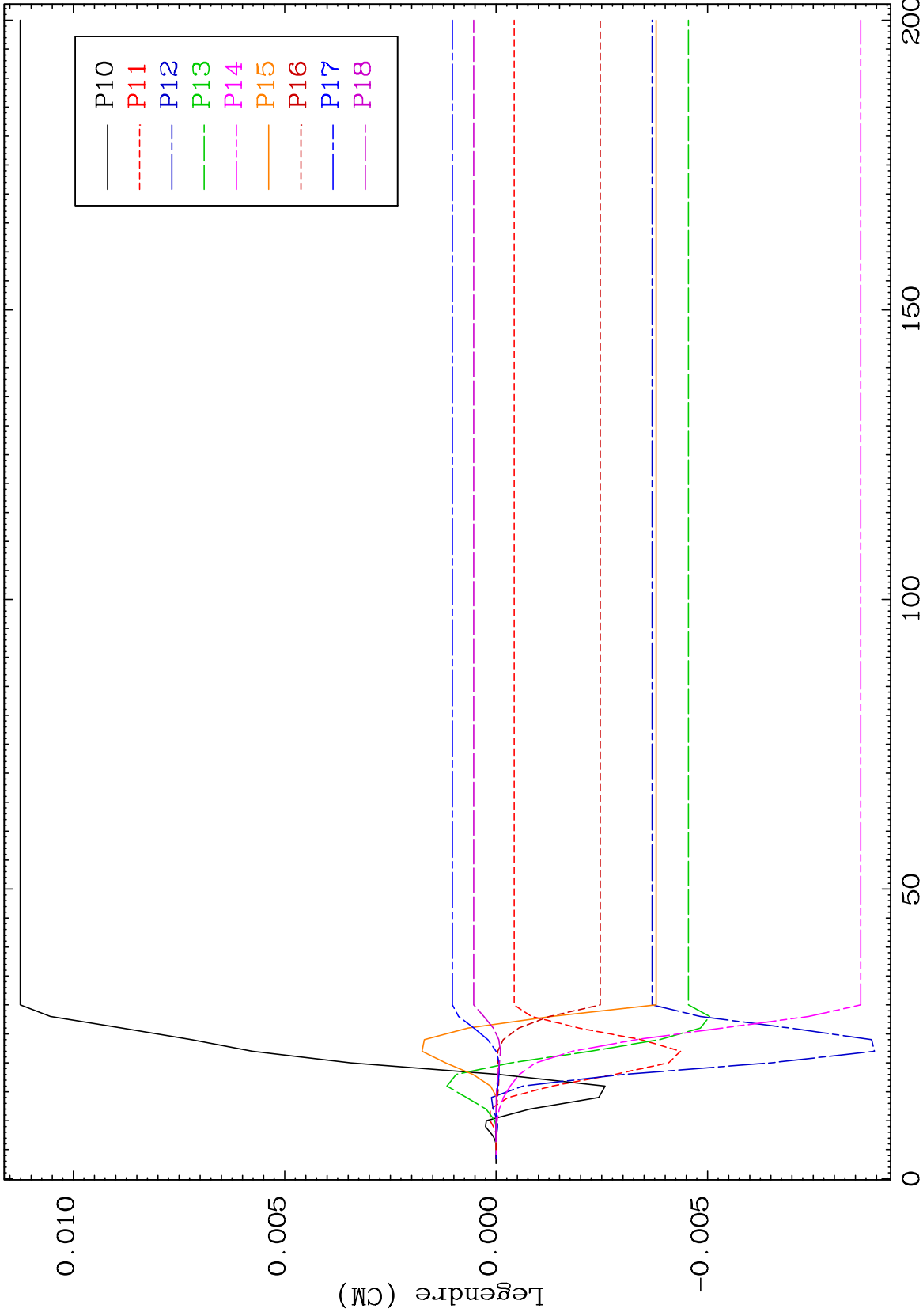
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



54

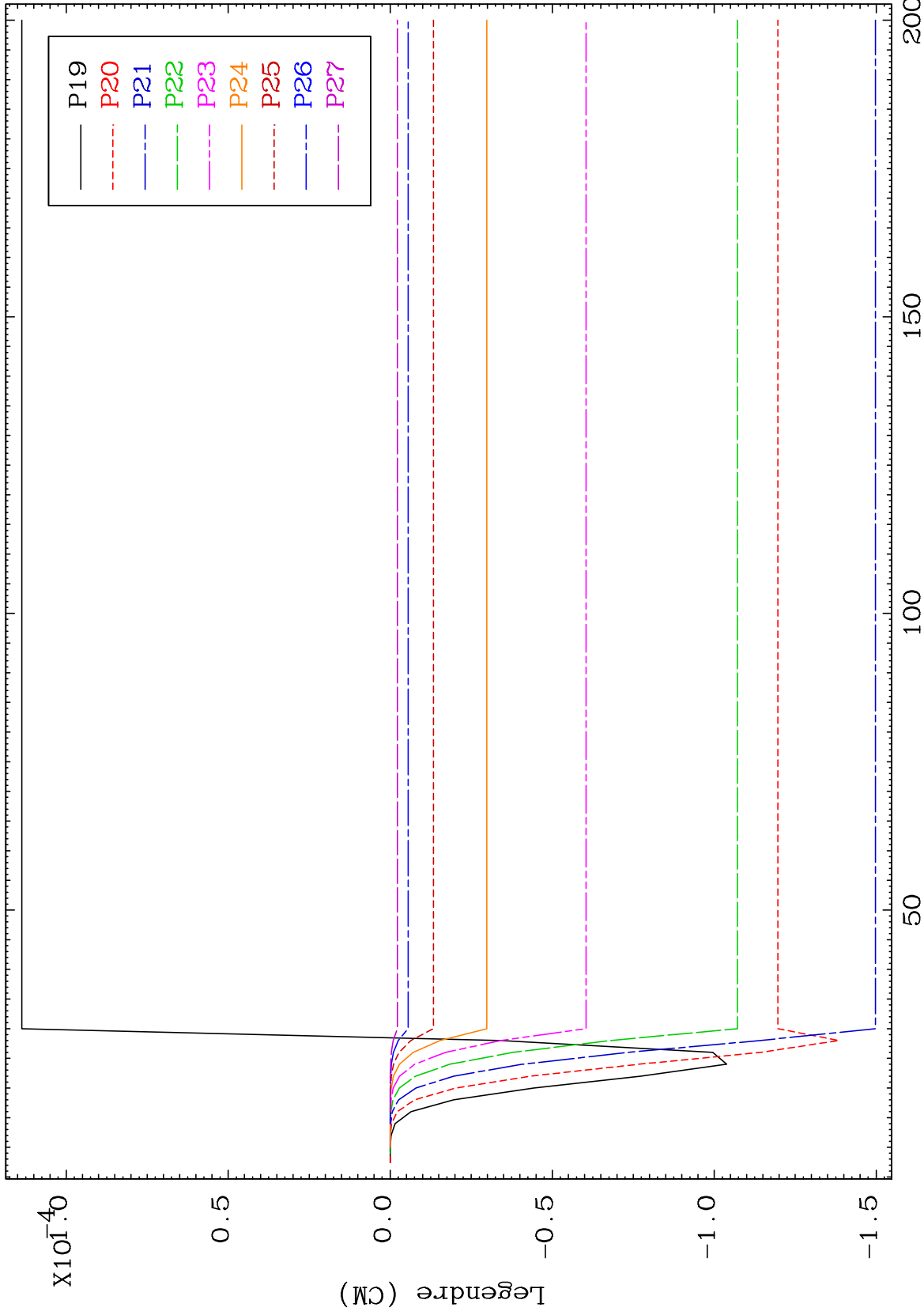
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130

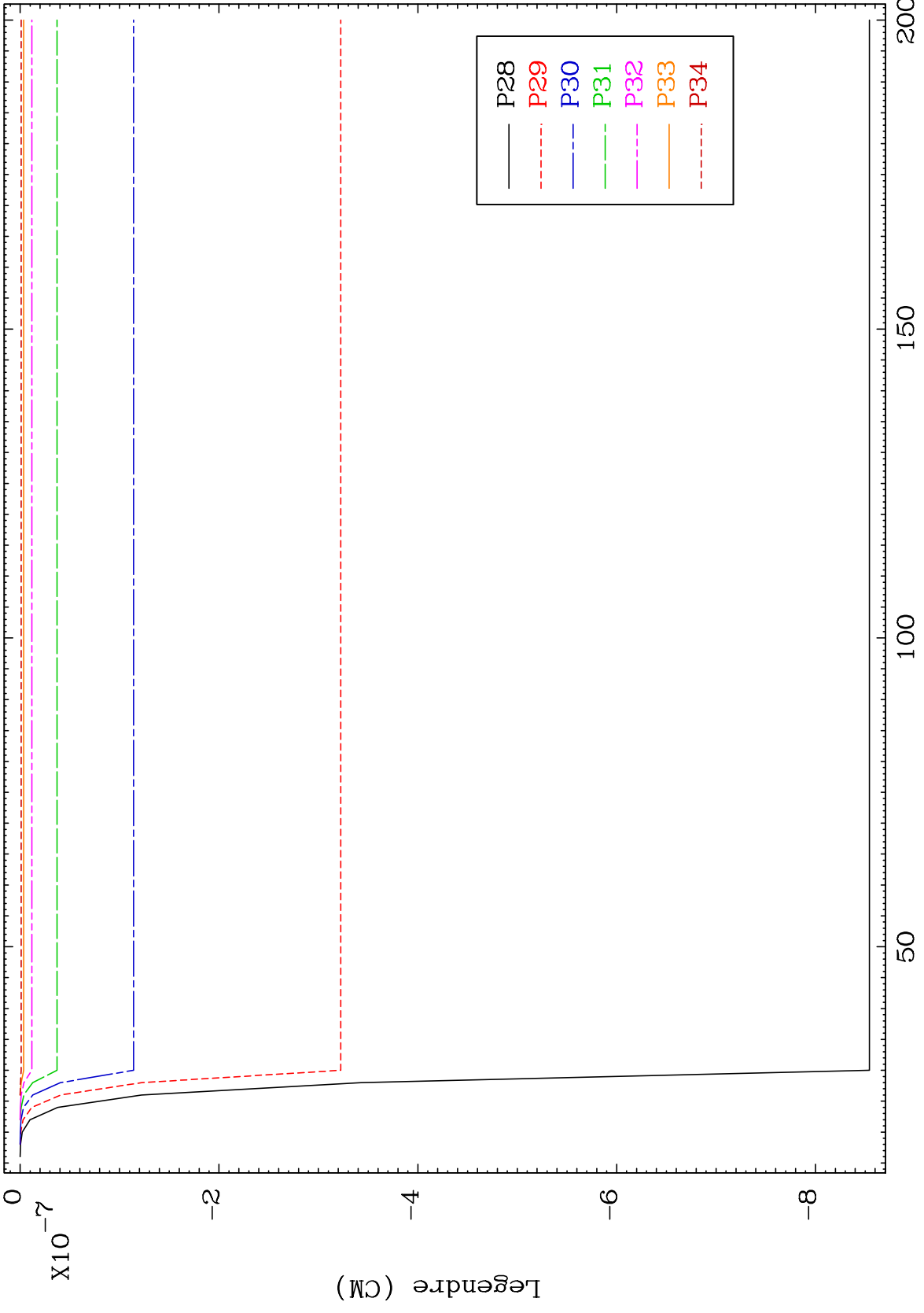


55

Incident Energy (MeV)

54-Xe-130

MAT 5443 MT= 60 (n,n') Level Legendre Coefficients 54-Xe-130

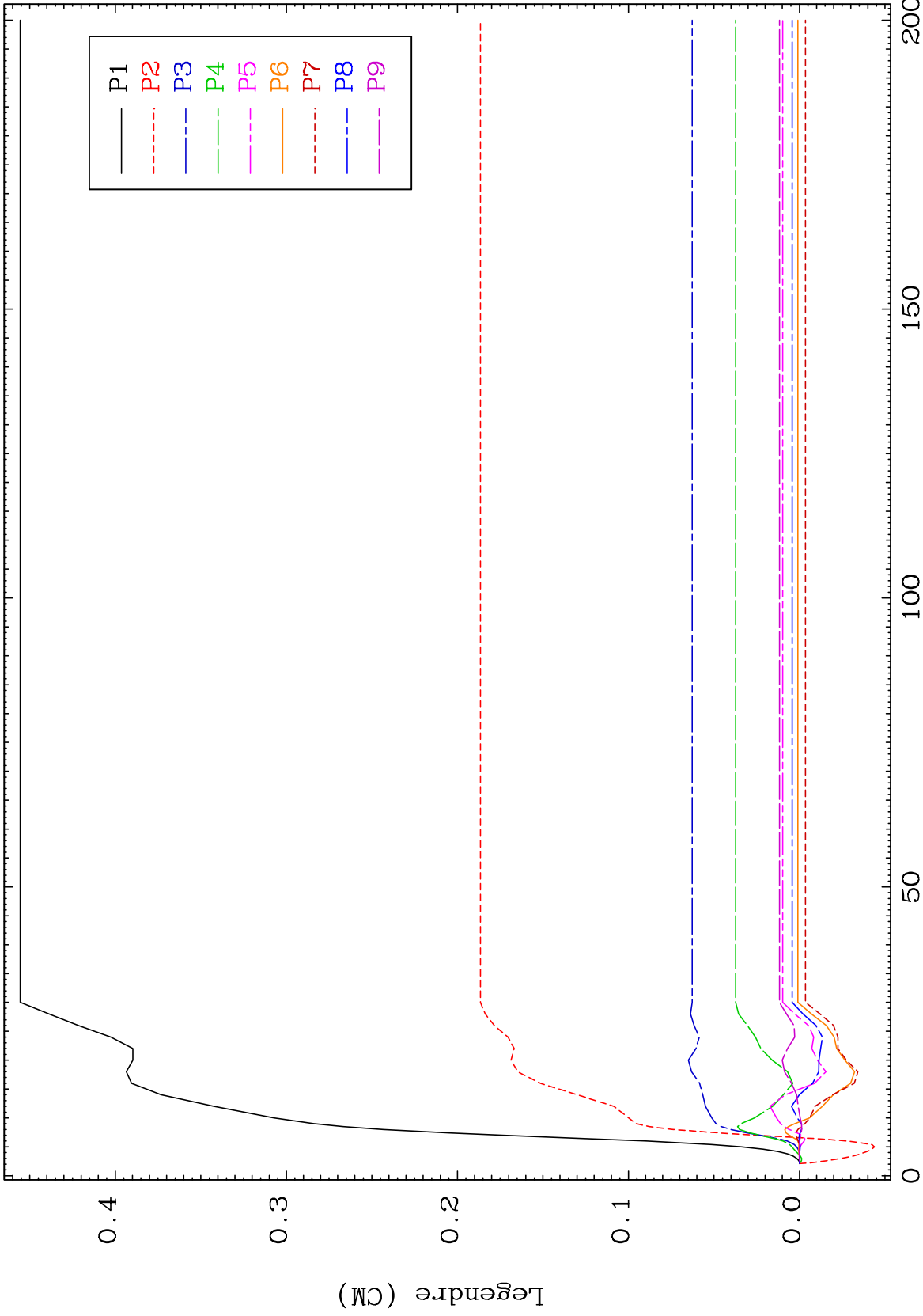


56 54-Xe-130

MAT 5443

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

54-Xe-130



57

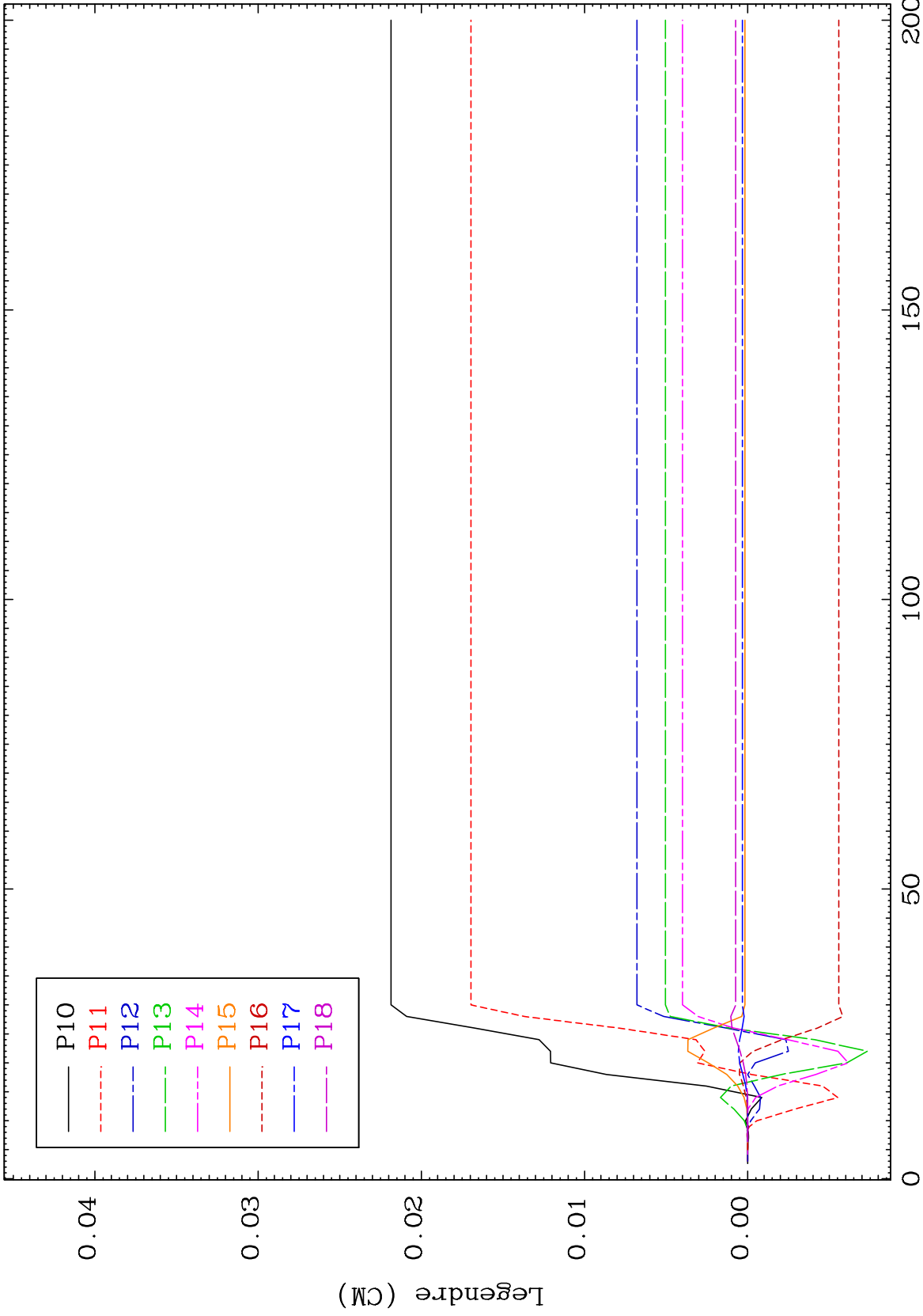
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



58

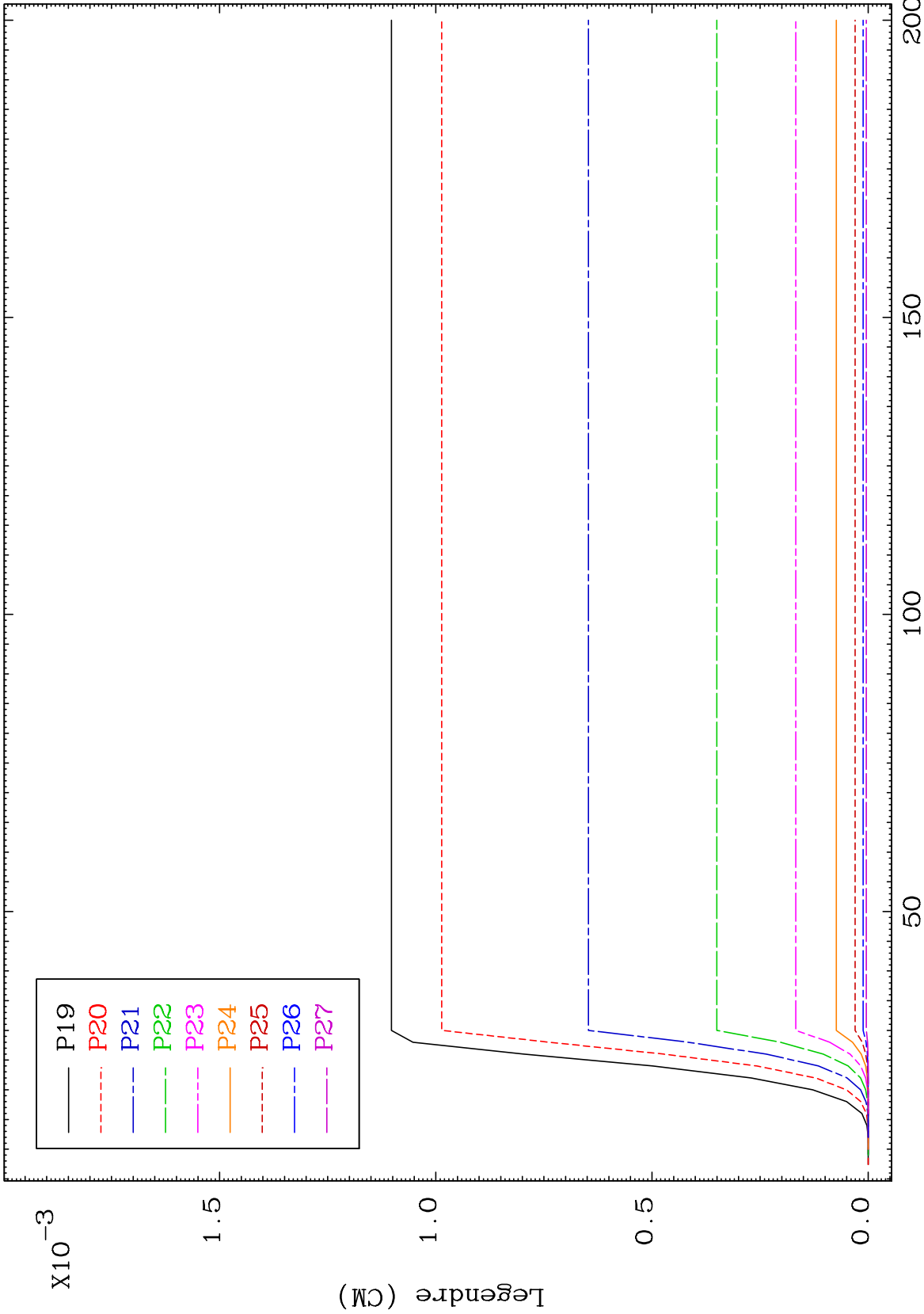
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



59

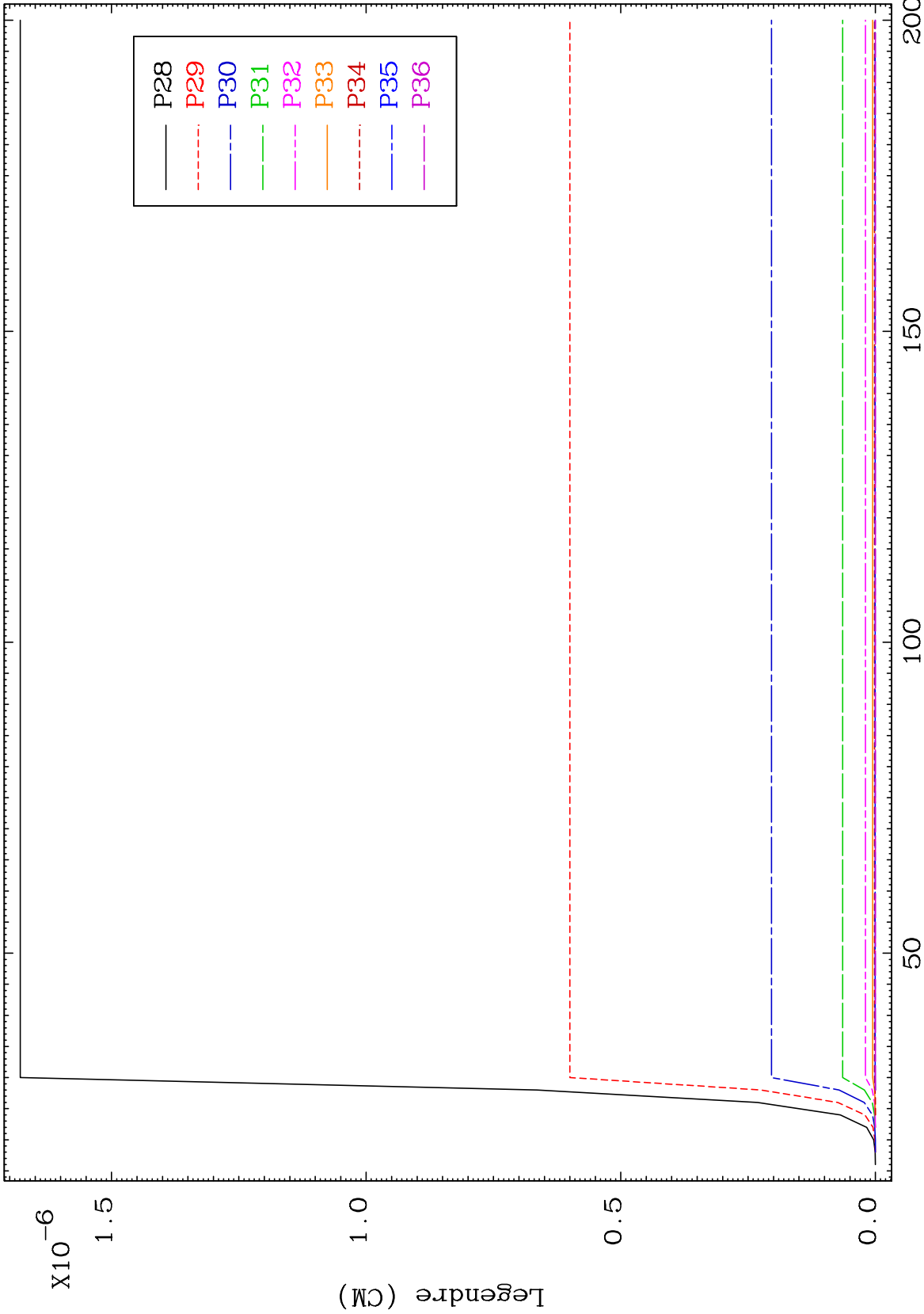
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



60

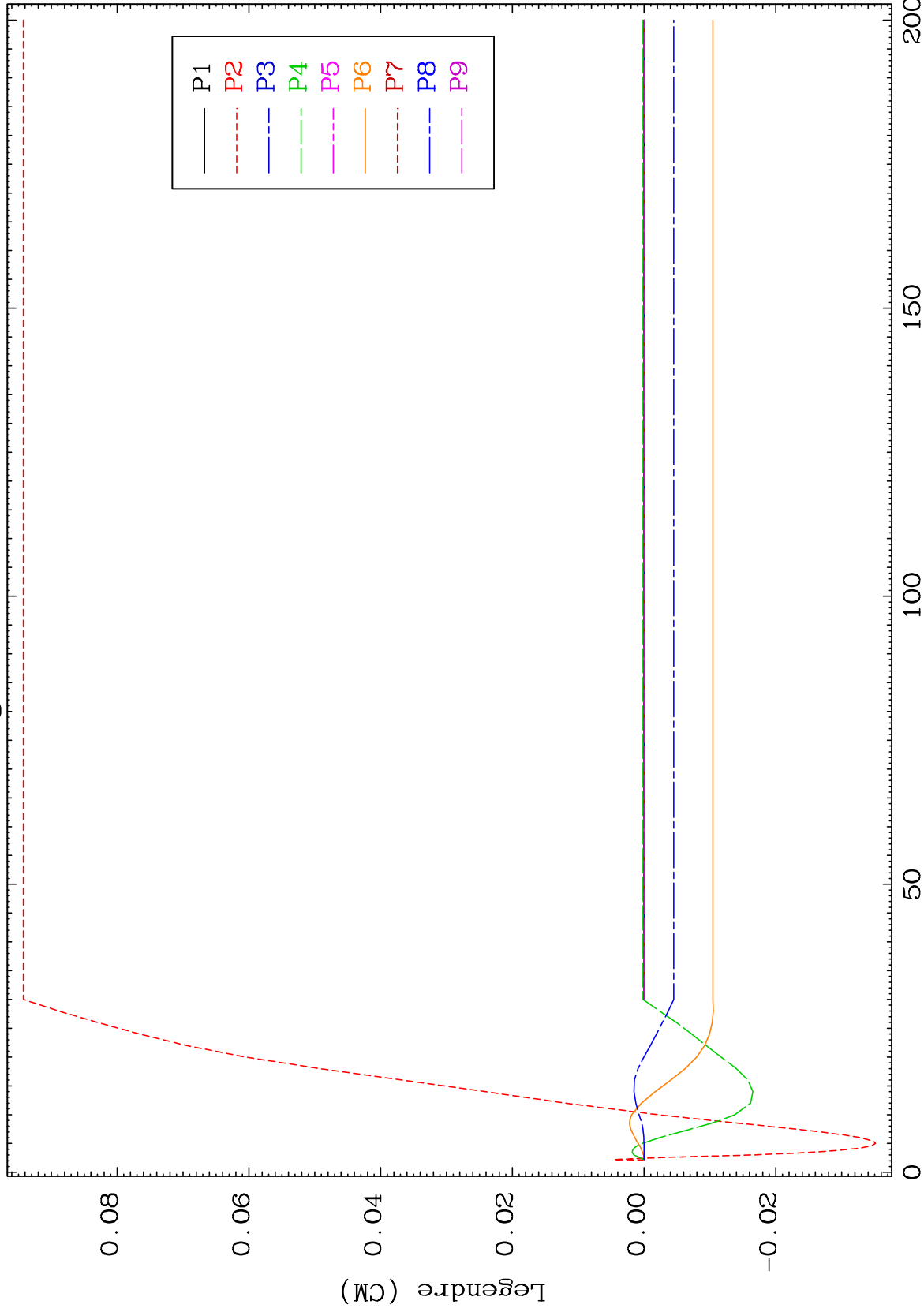
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



61

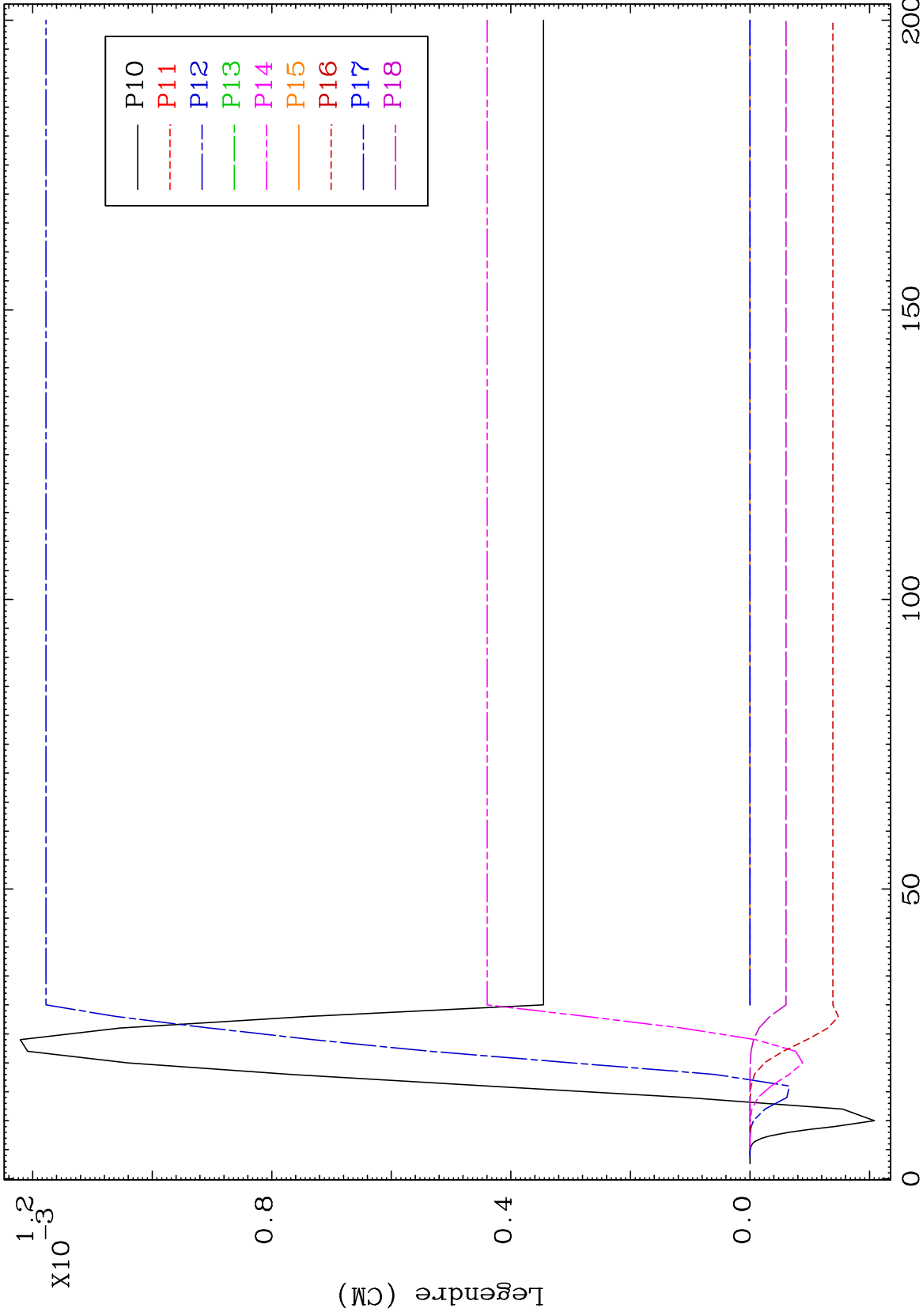
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



62

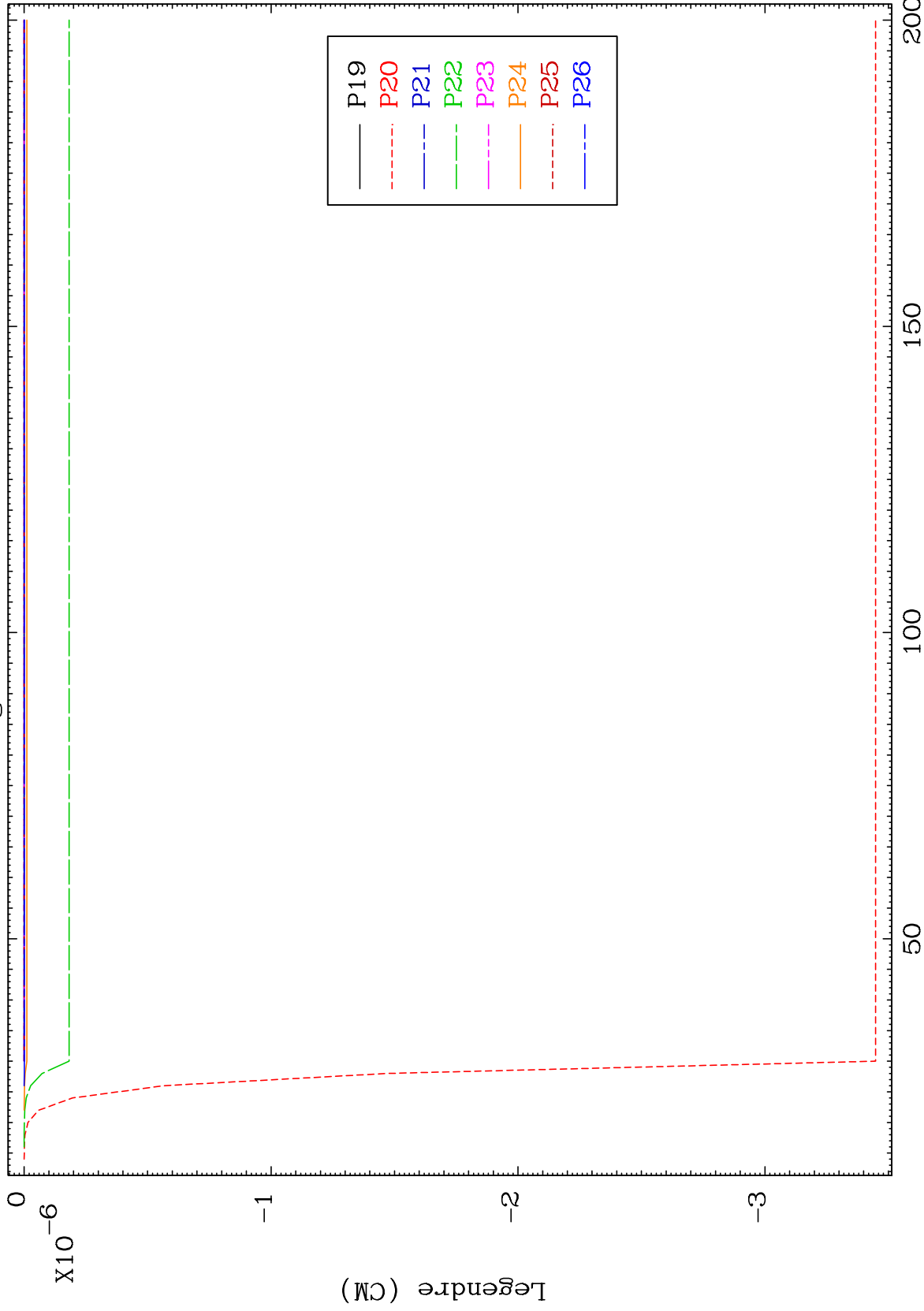
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



63

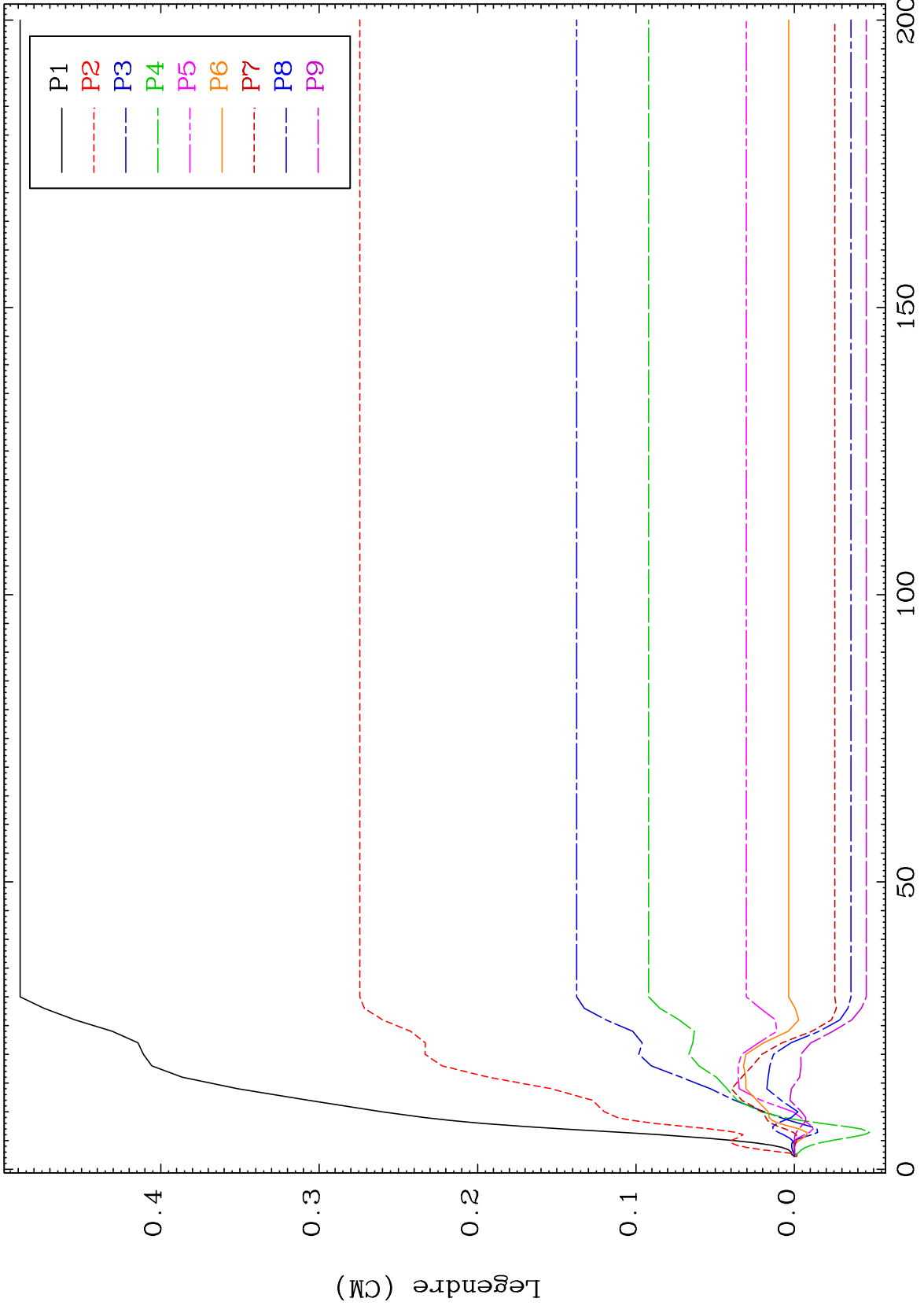
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



64

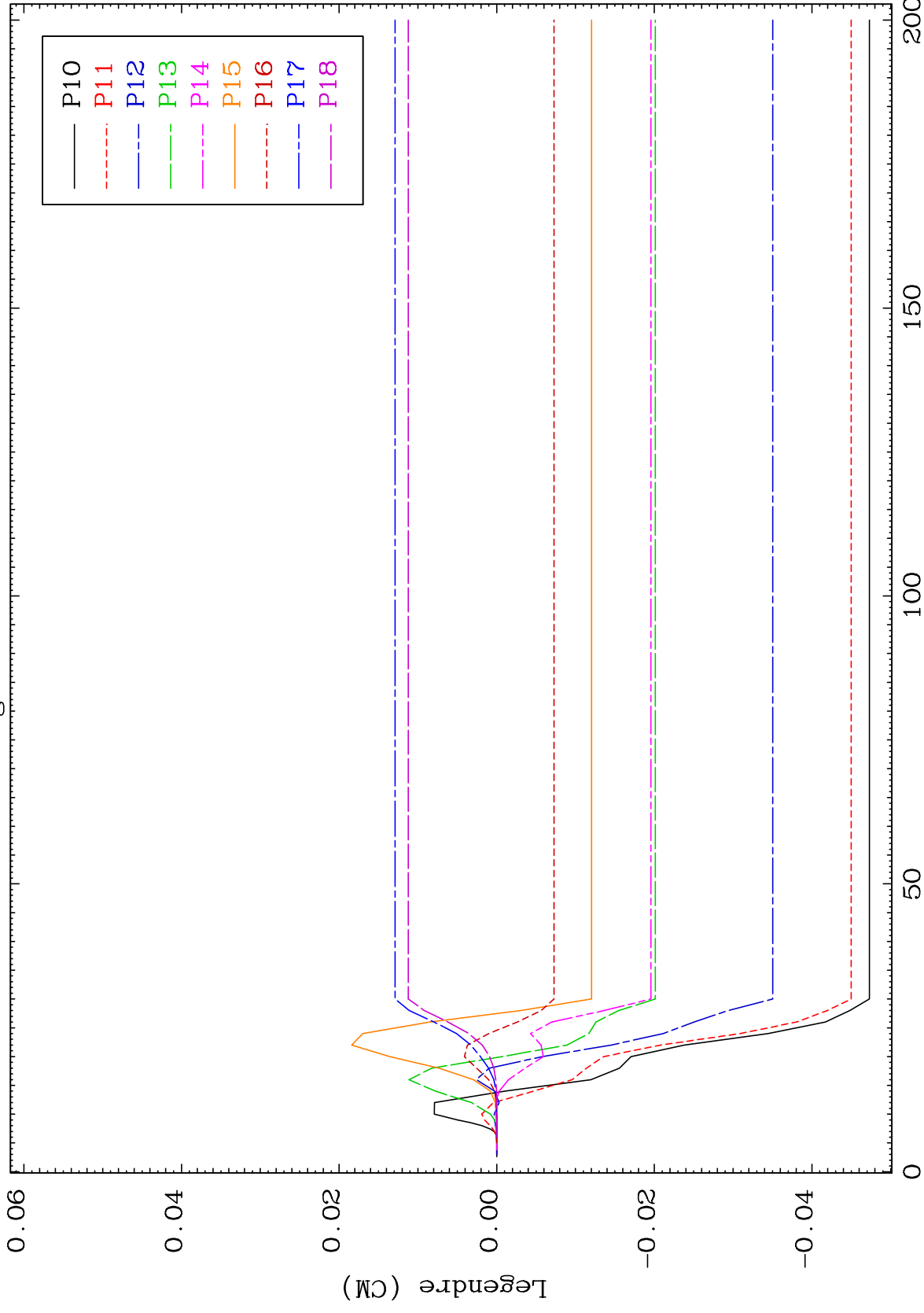
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



65

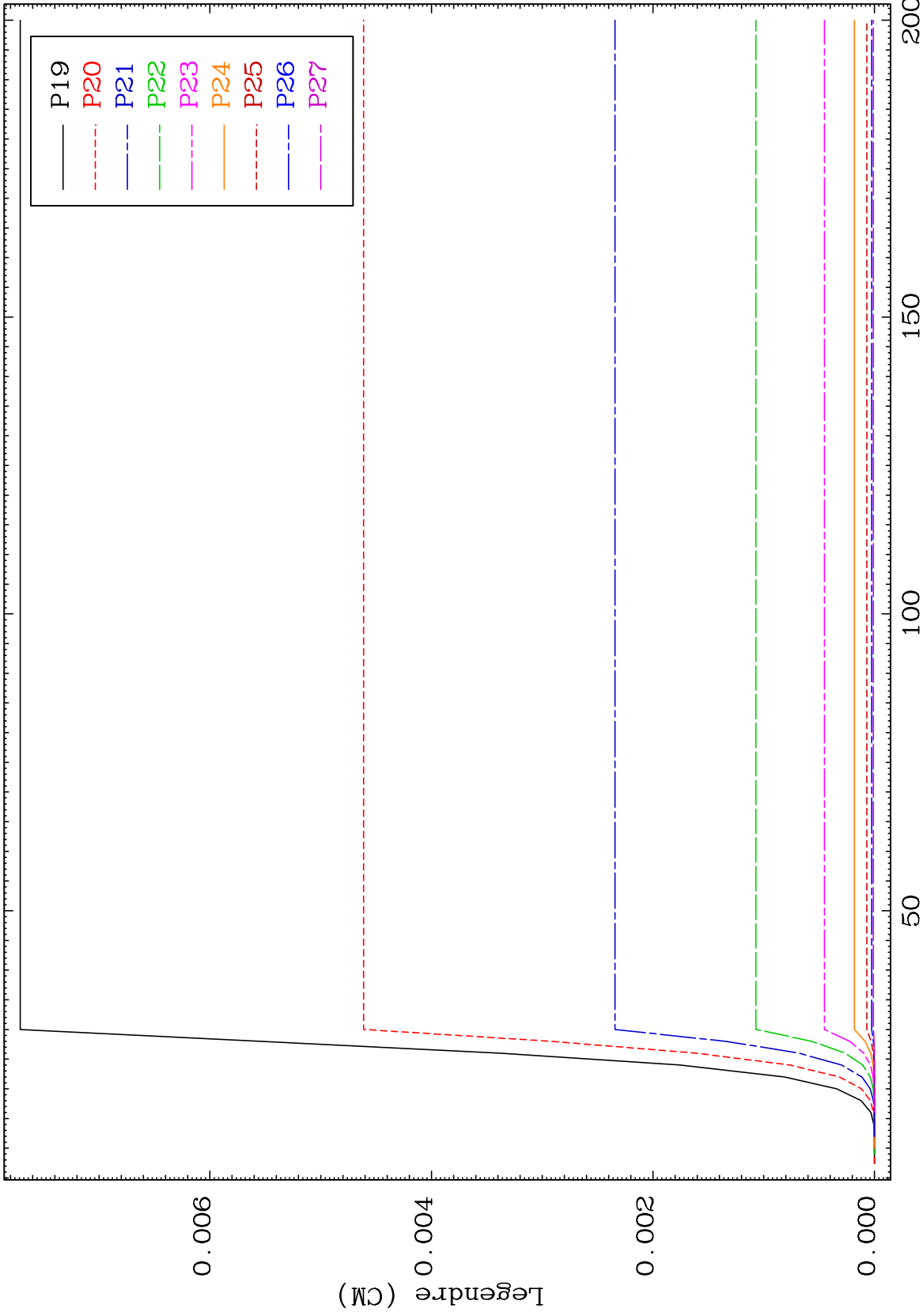
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



66

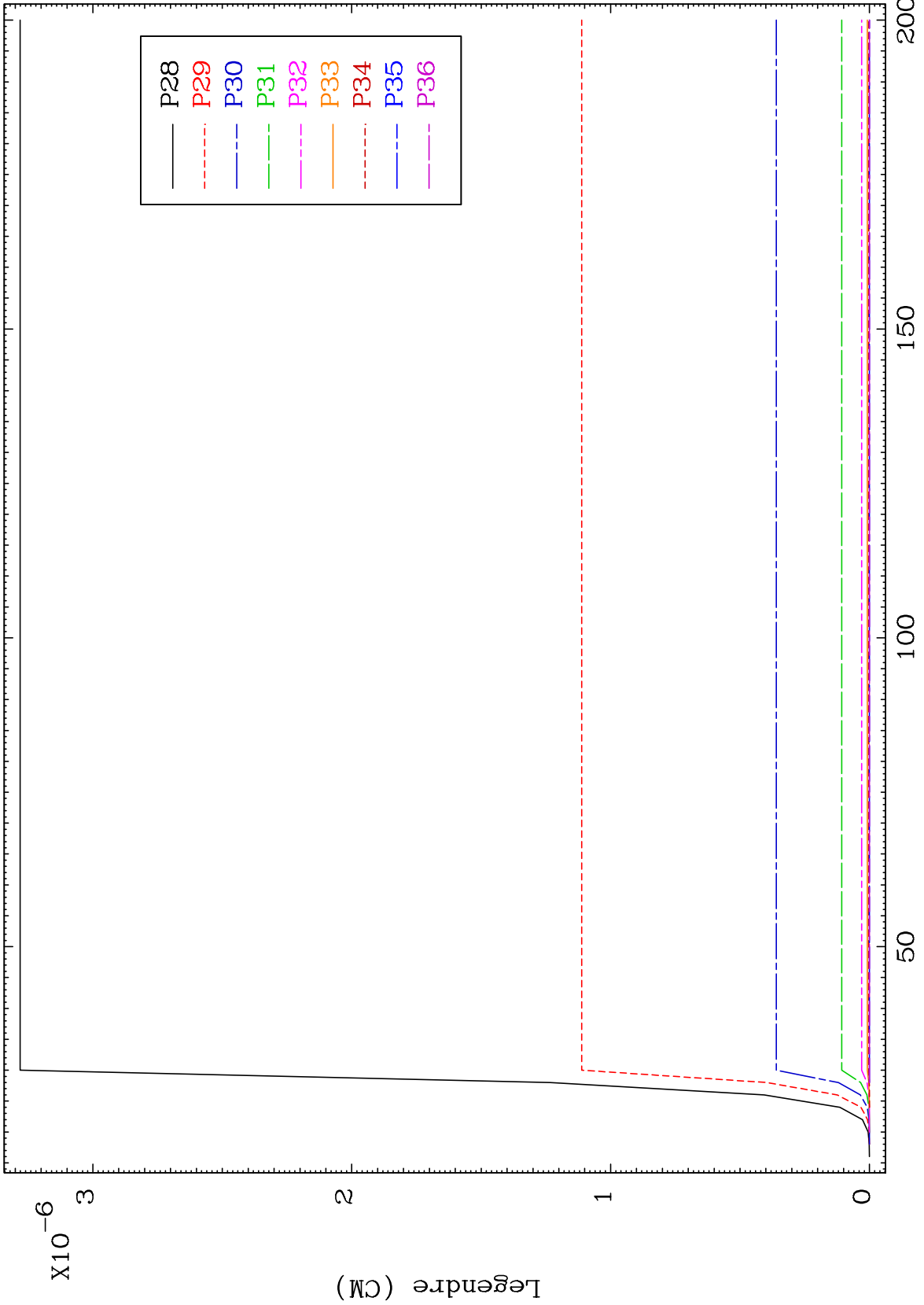
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



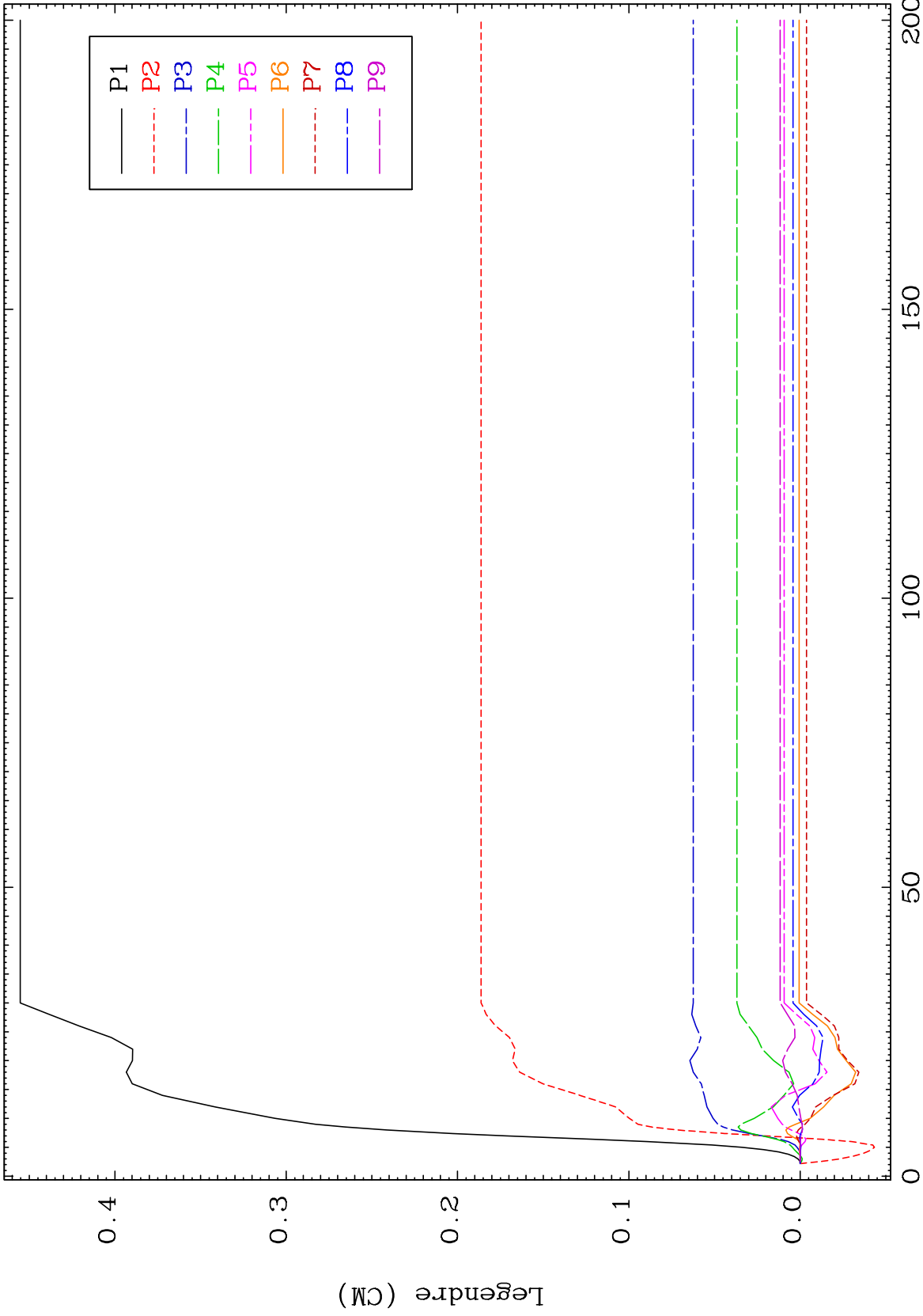
67

54-Xe-130

MAT 5443

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

54-Xe-130



68

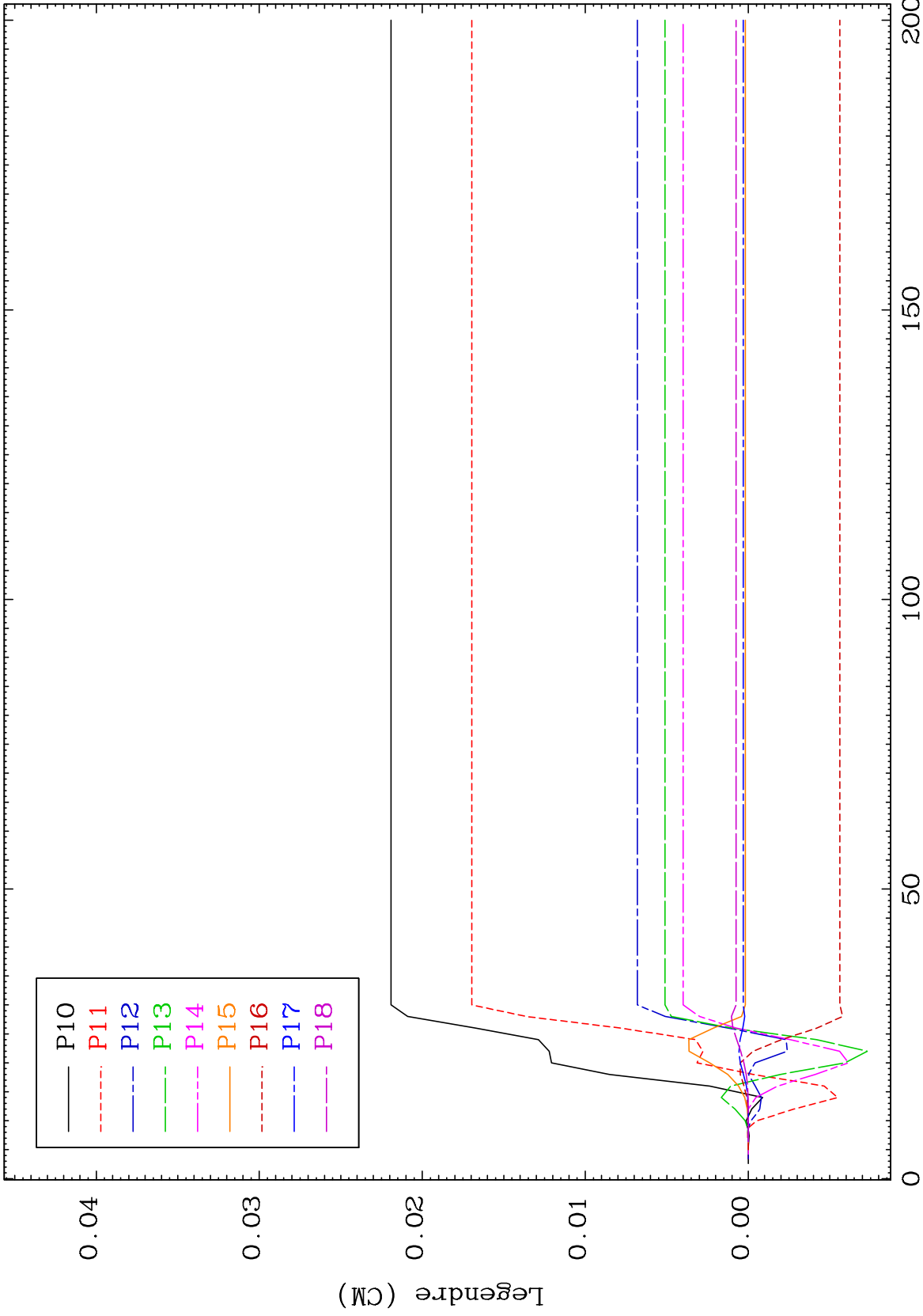
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



69

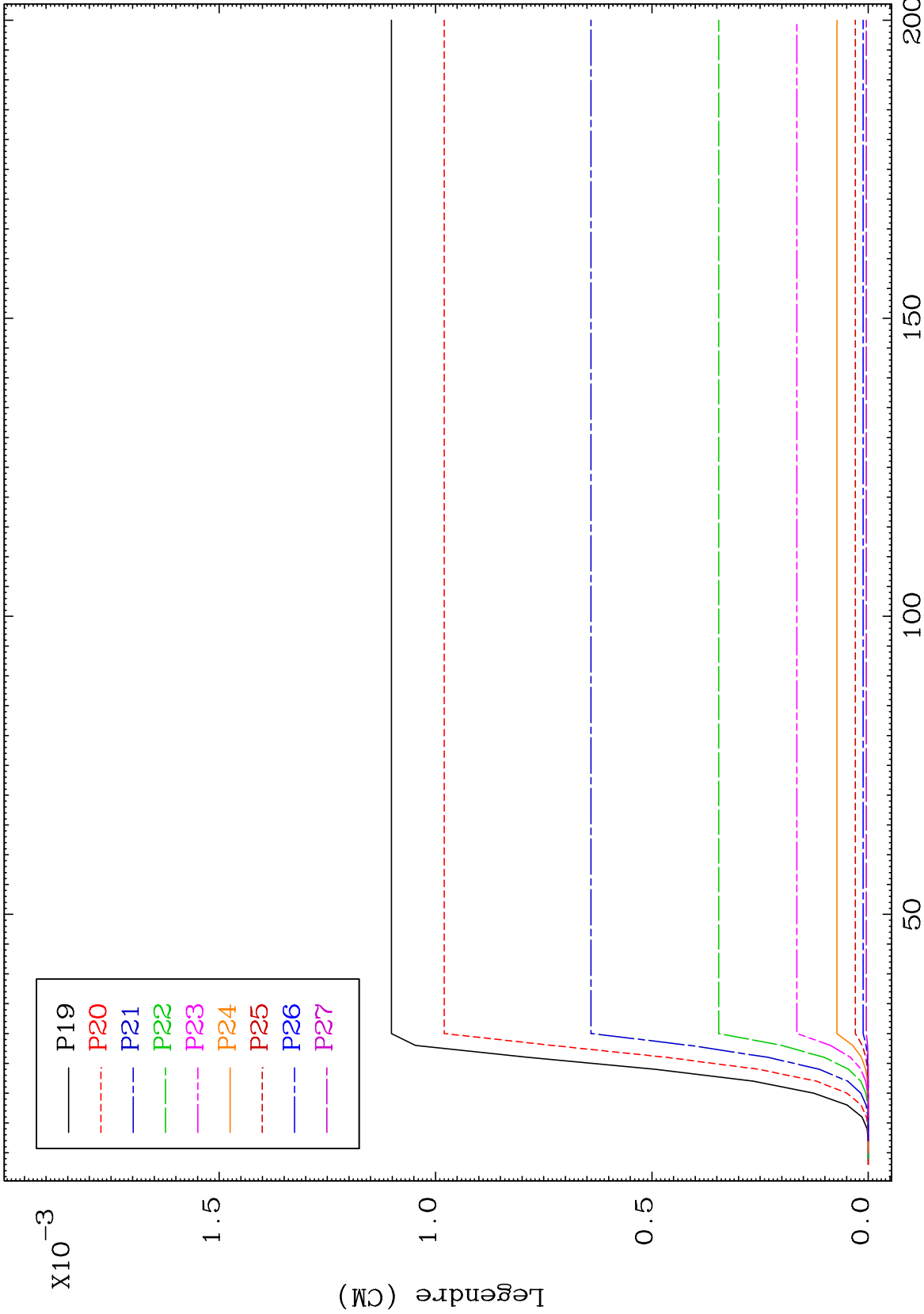
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



70

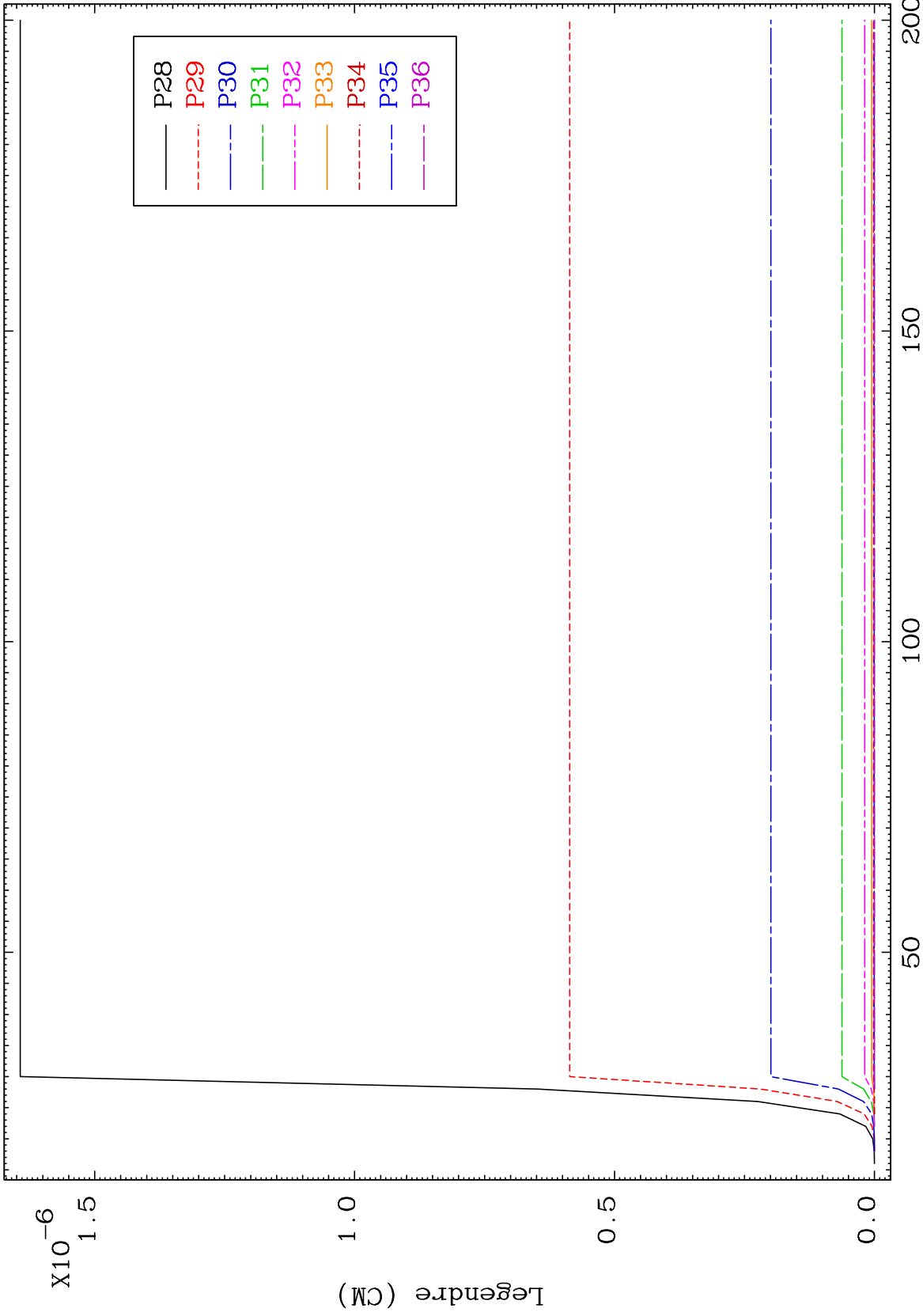
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



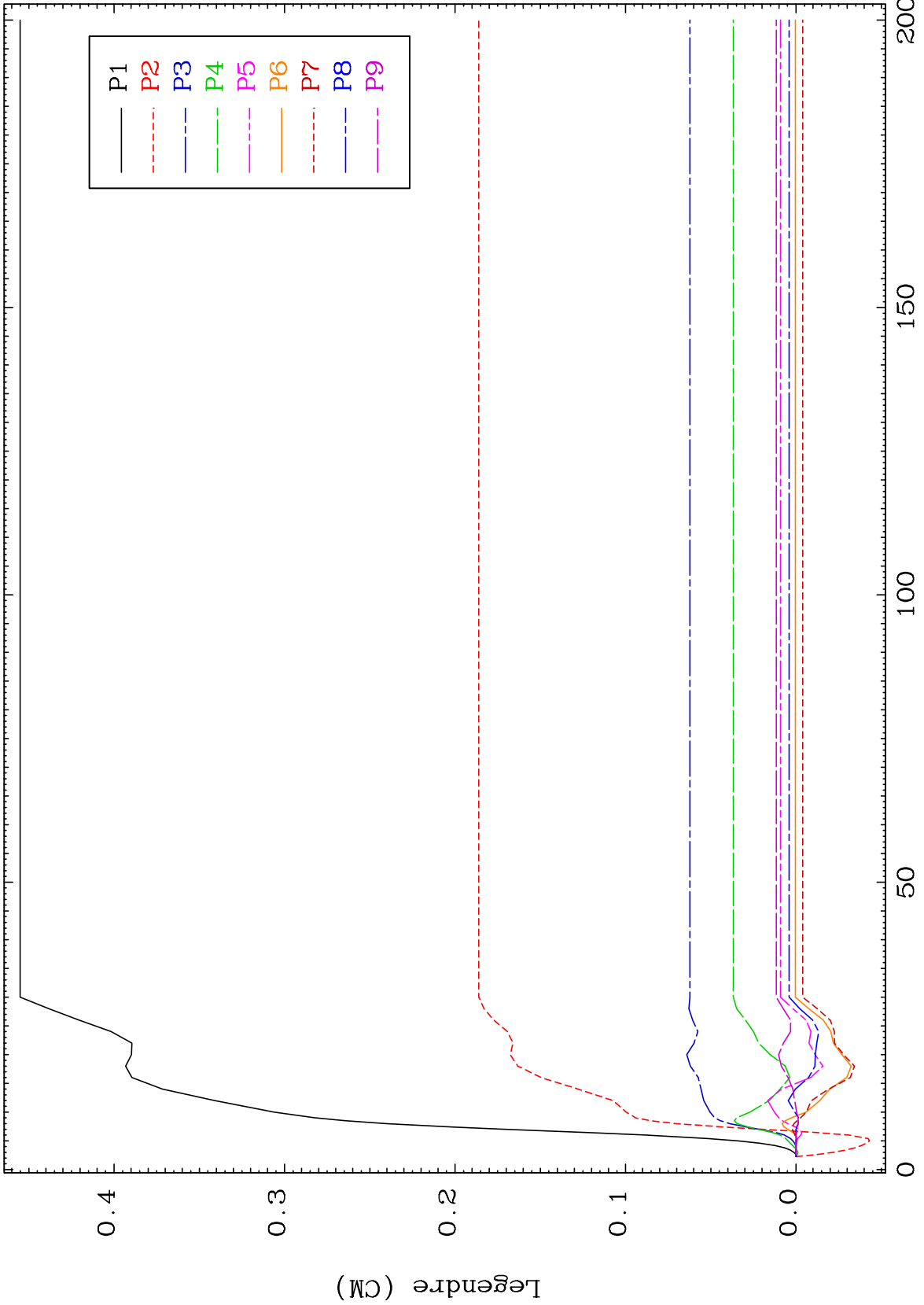
71

54-Xe-130

MAT 5443

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

54-Xe-130



72

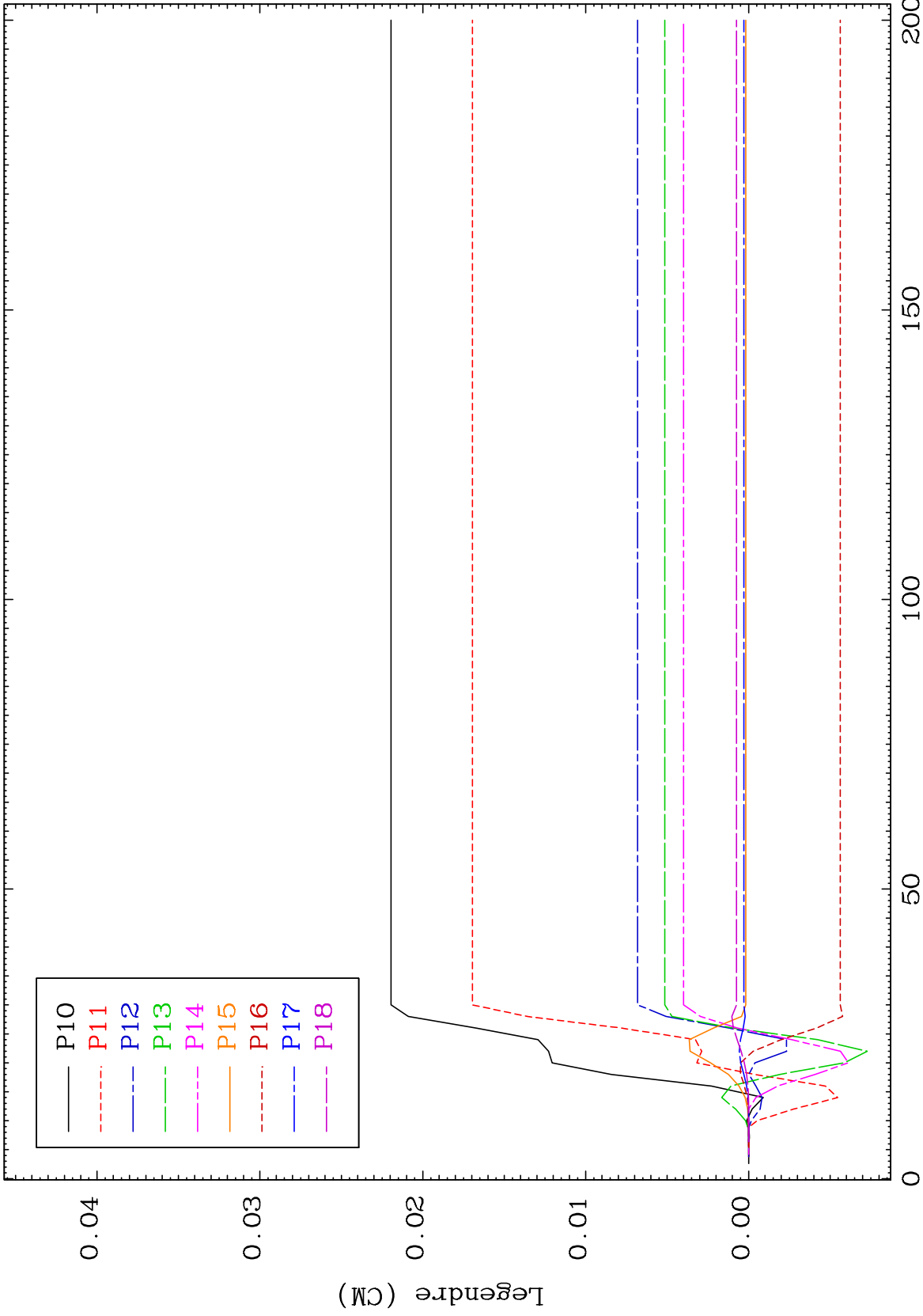
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



73

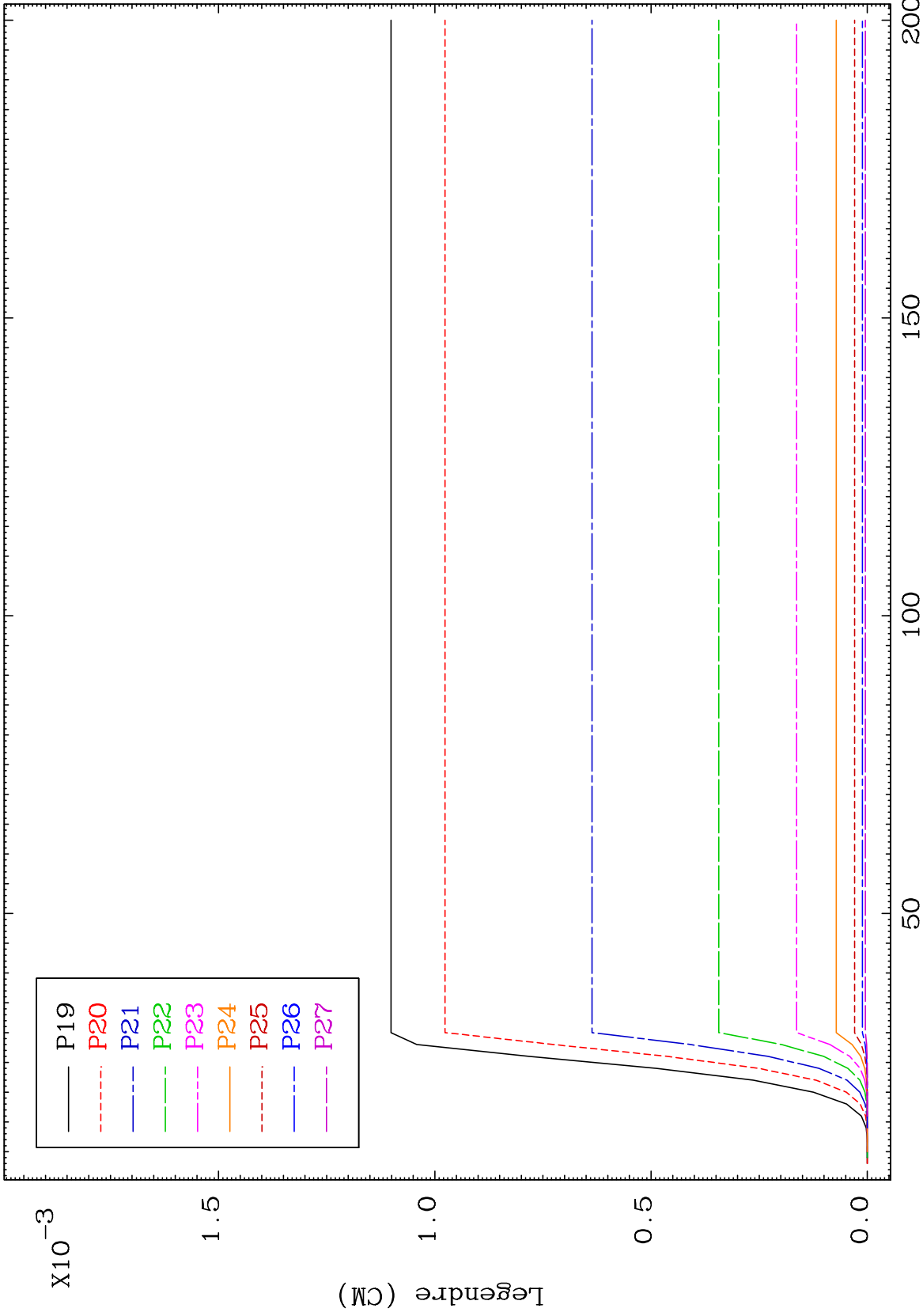
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



74

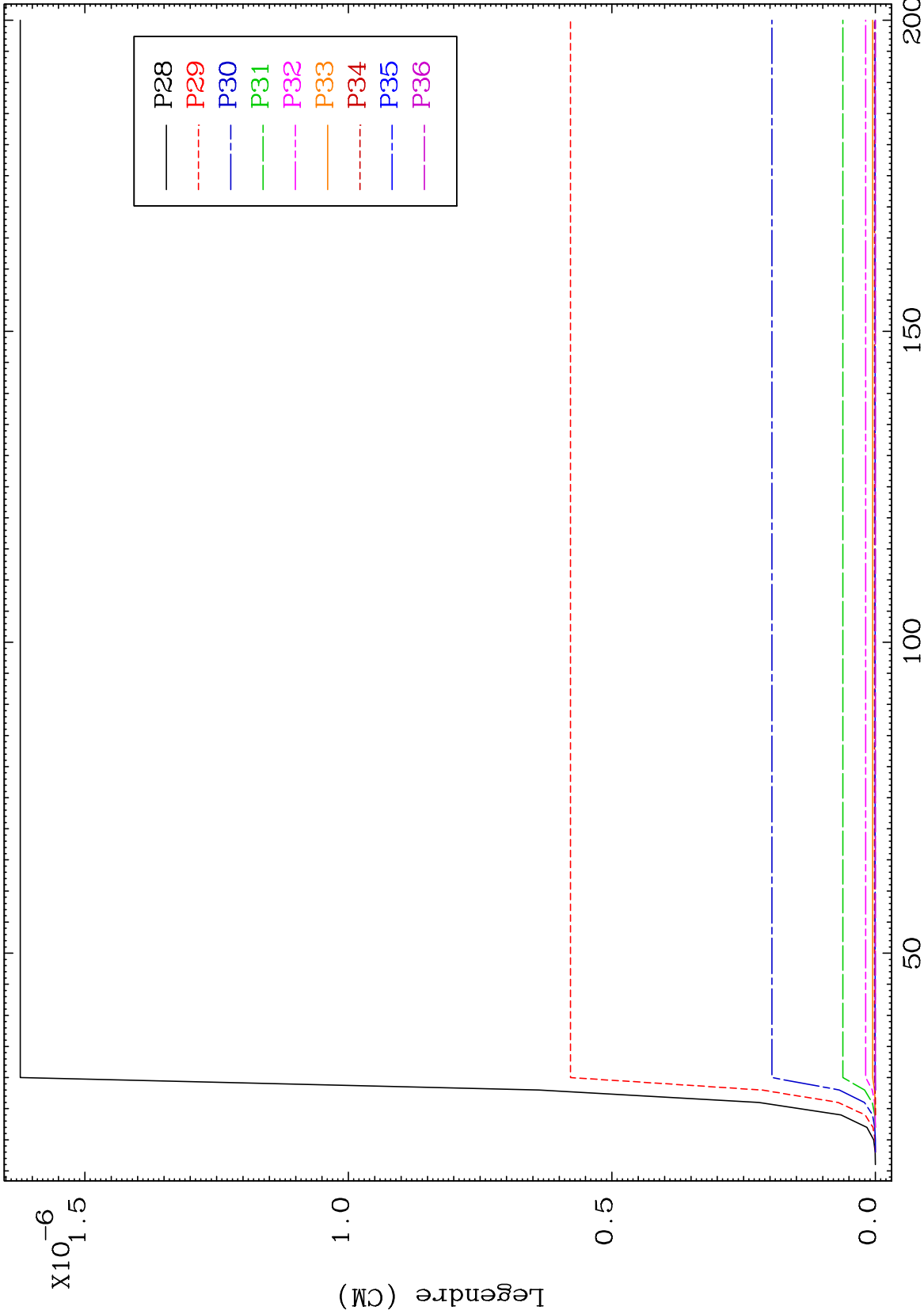
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



75

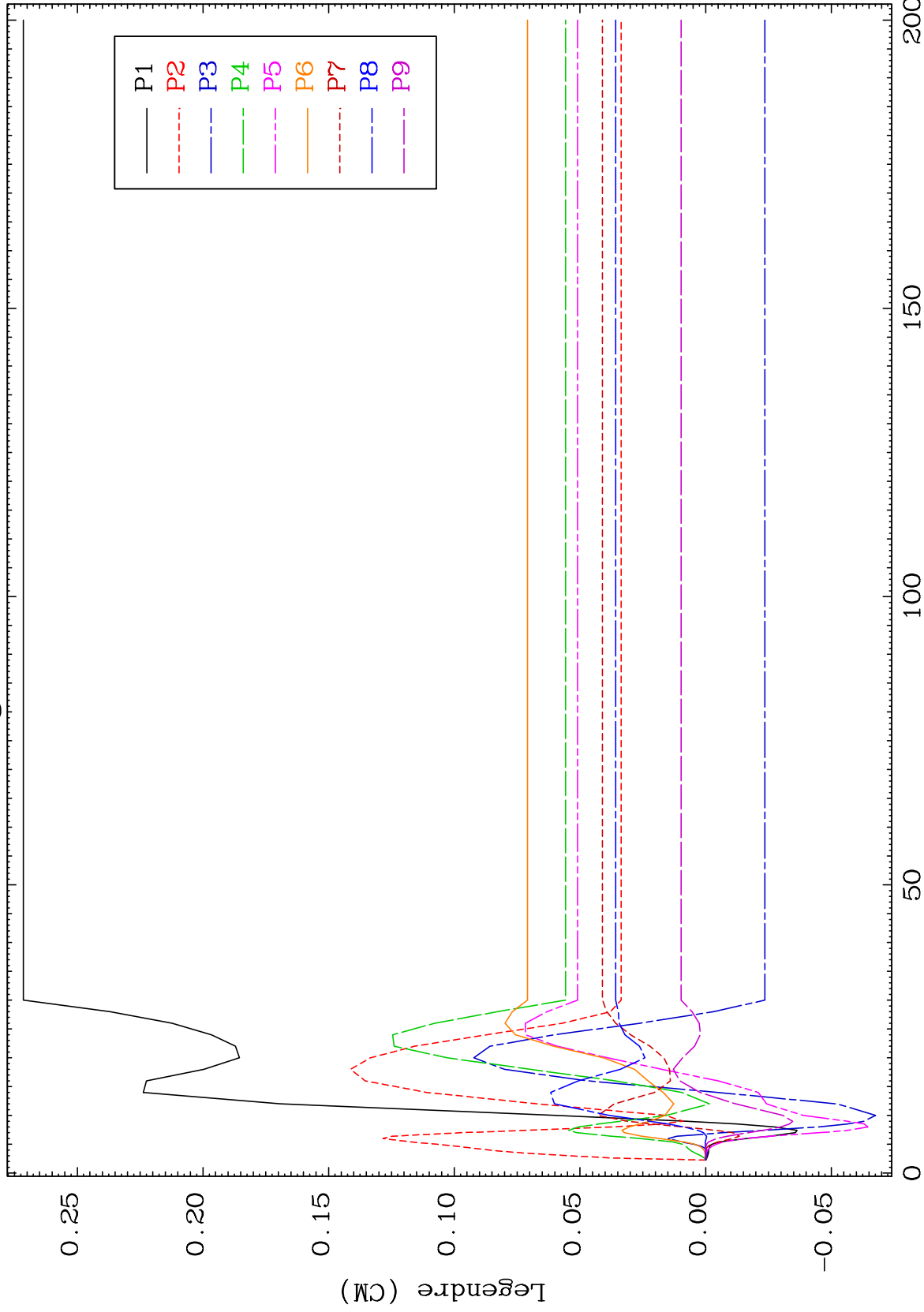
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



76

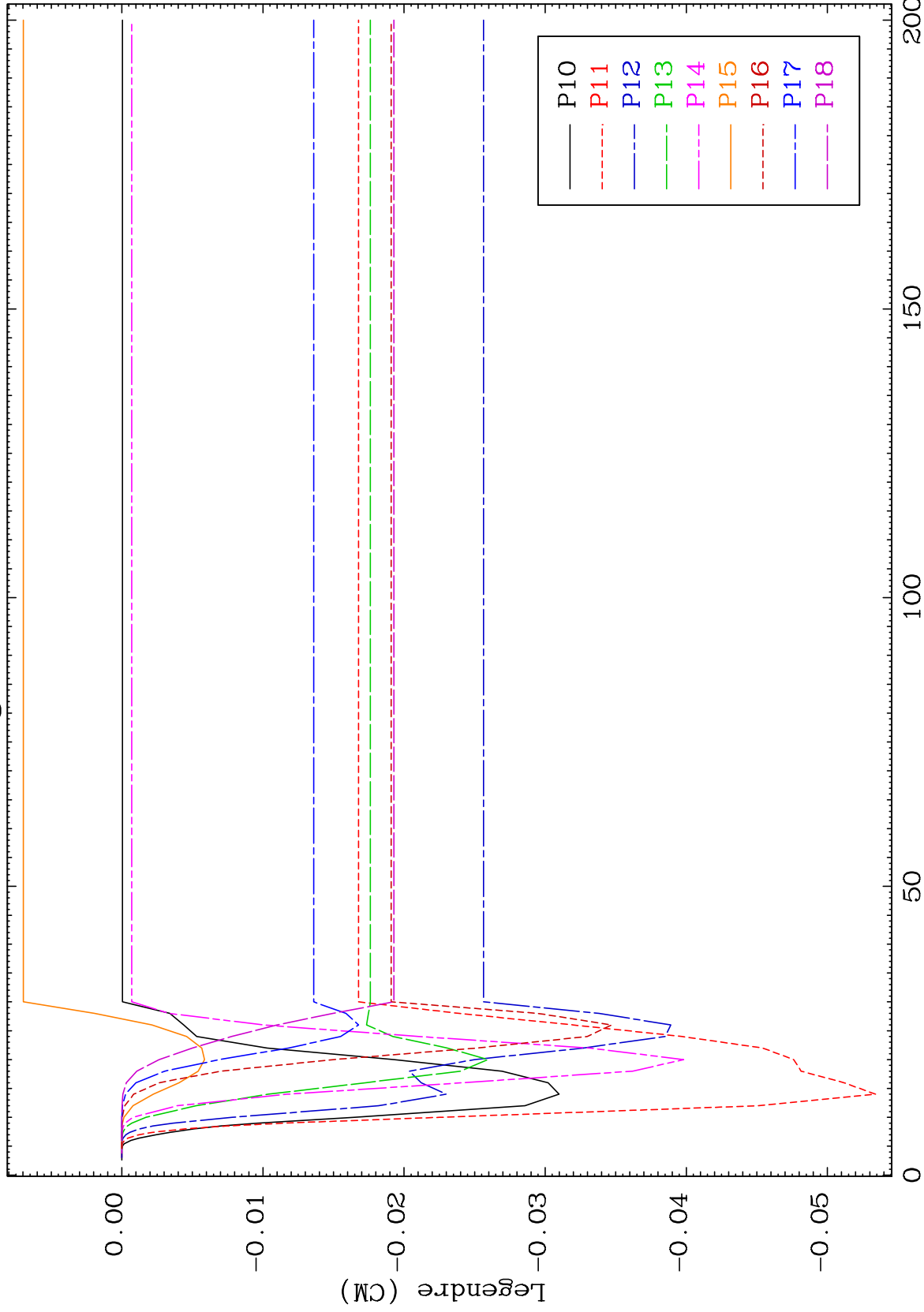
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130

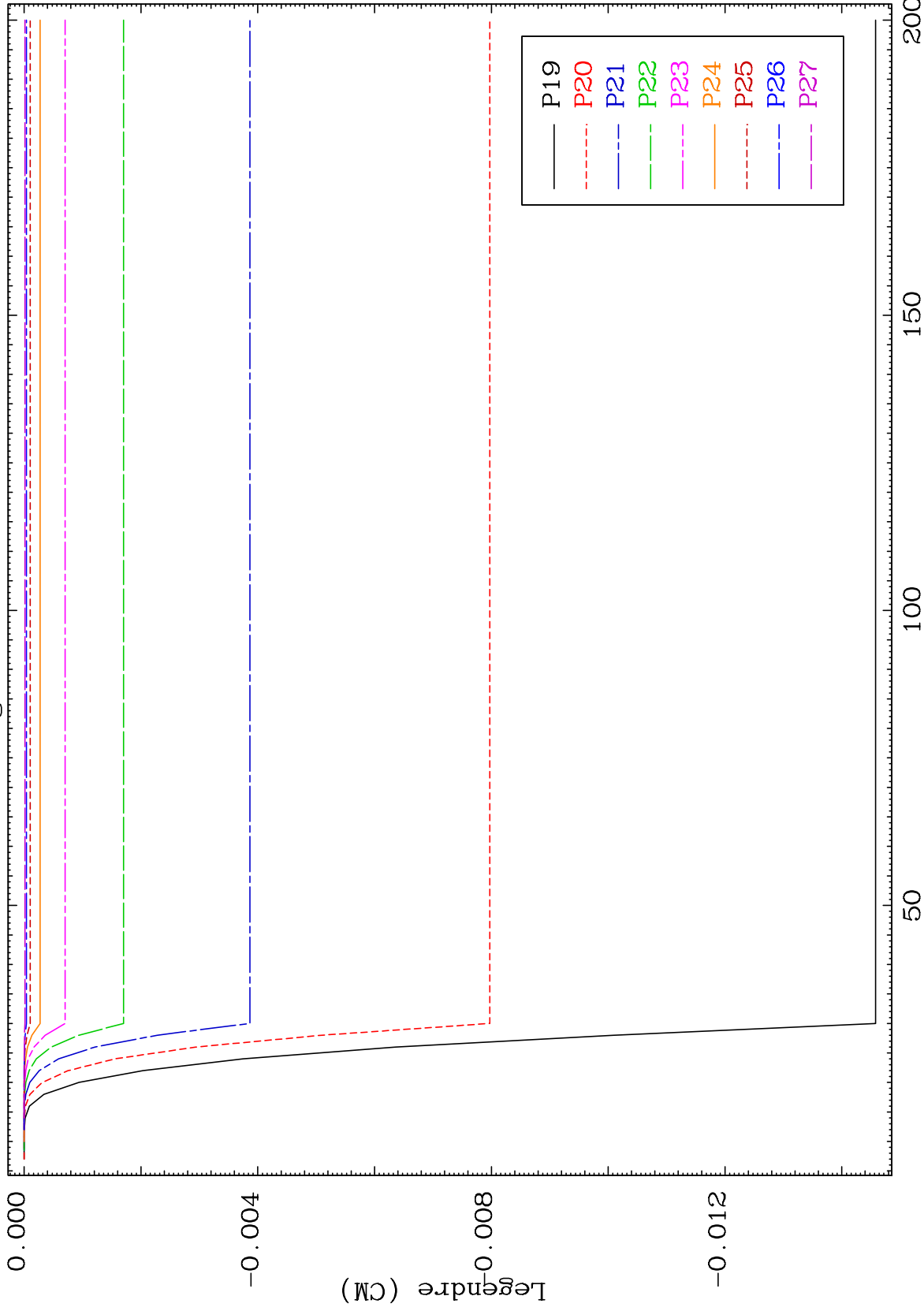


77

Incident Energy (MeV)

54-Xe-130

MAT 5443 MT= 66 (n,n') Level Legendre Coefficients 54-Xe-130

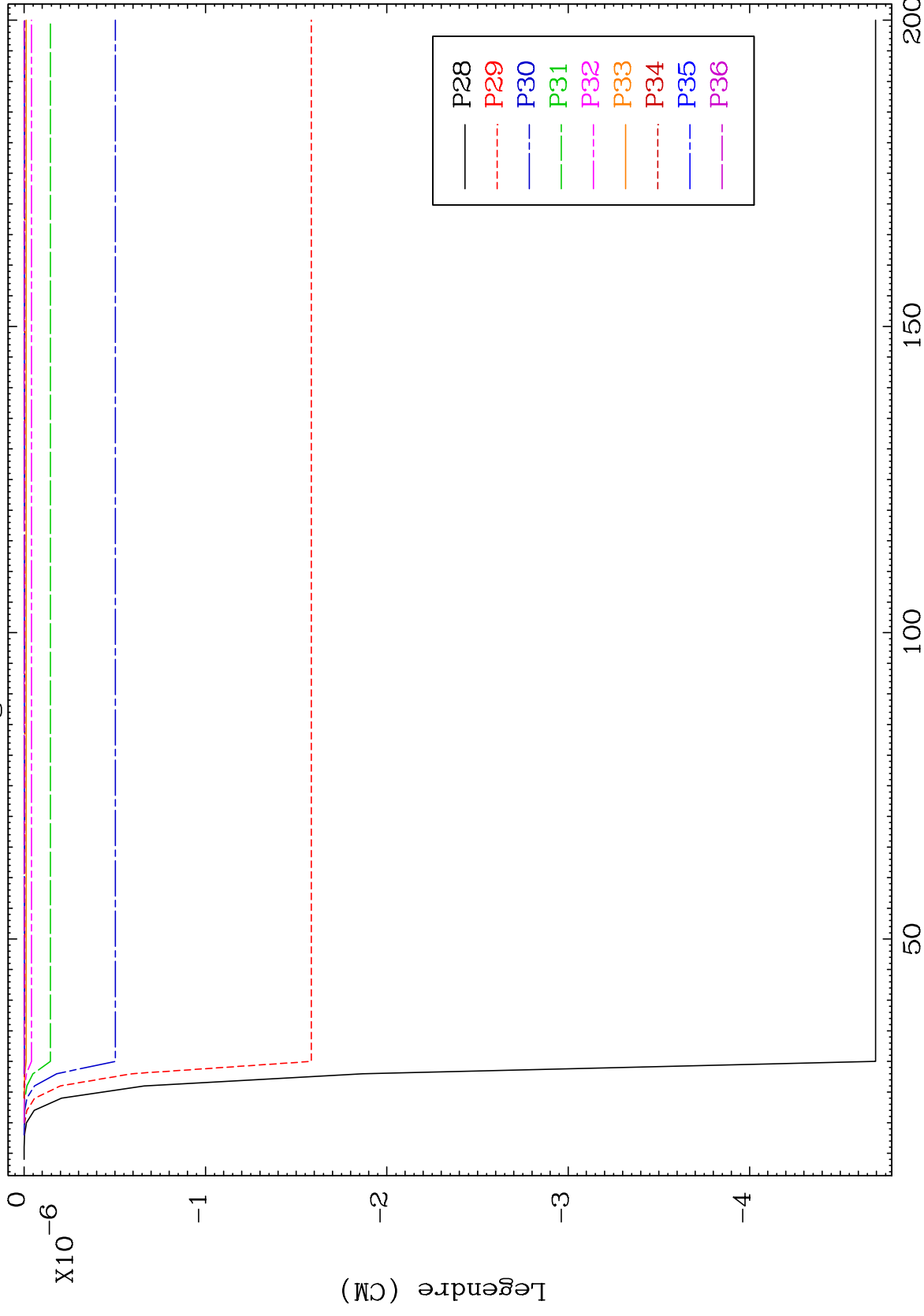


78 54-Xe-130

MAT 5443

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

54-Xe-130



54-Xe-130

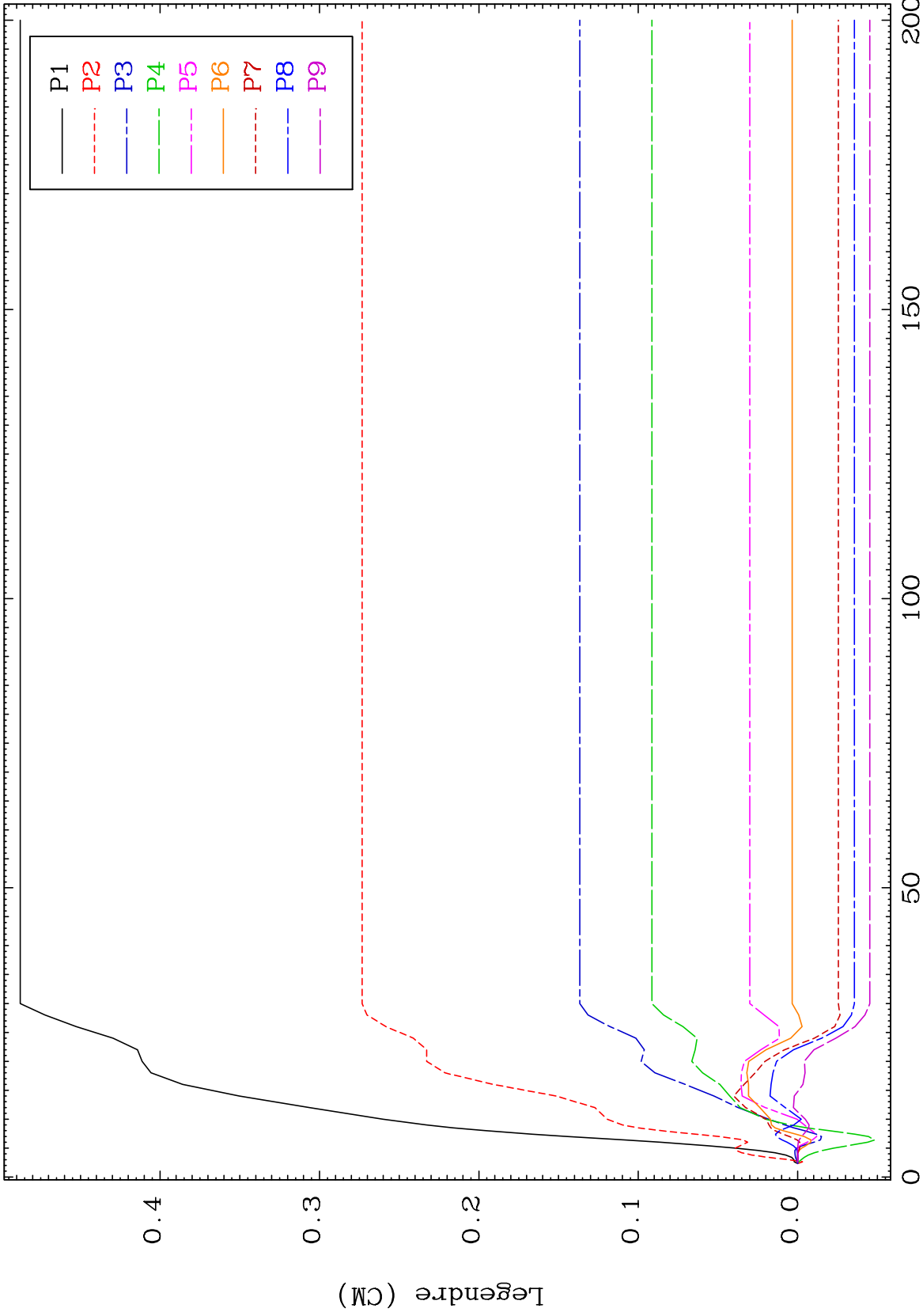
Incident Energy (MeV)

79

MAT 5443

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

54-Xe-130



54-Xe-130

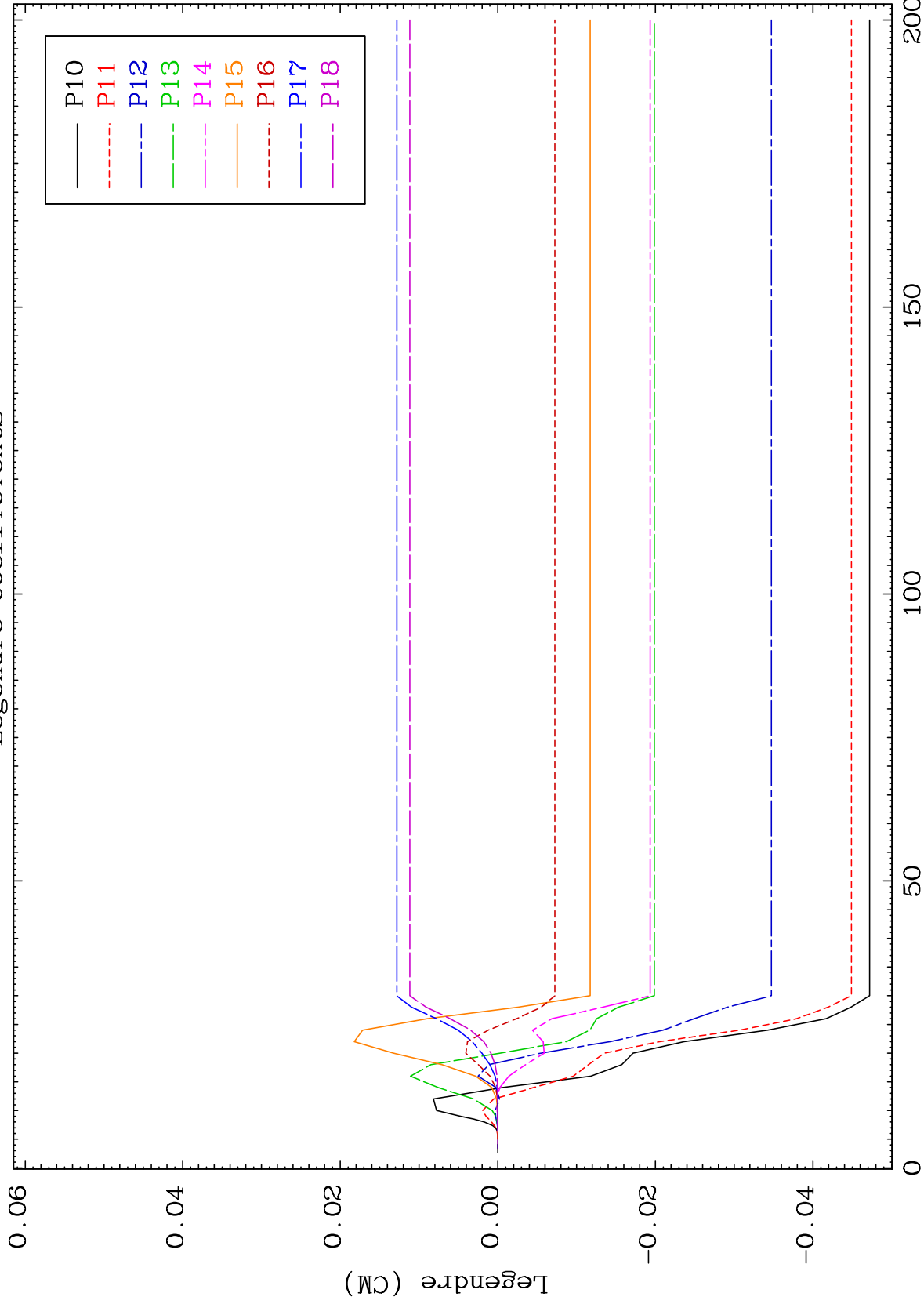
Incident Energy (MeV)

80

MAT 5443

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

54-Xe-130



81

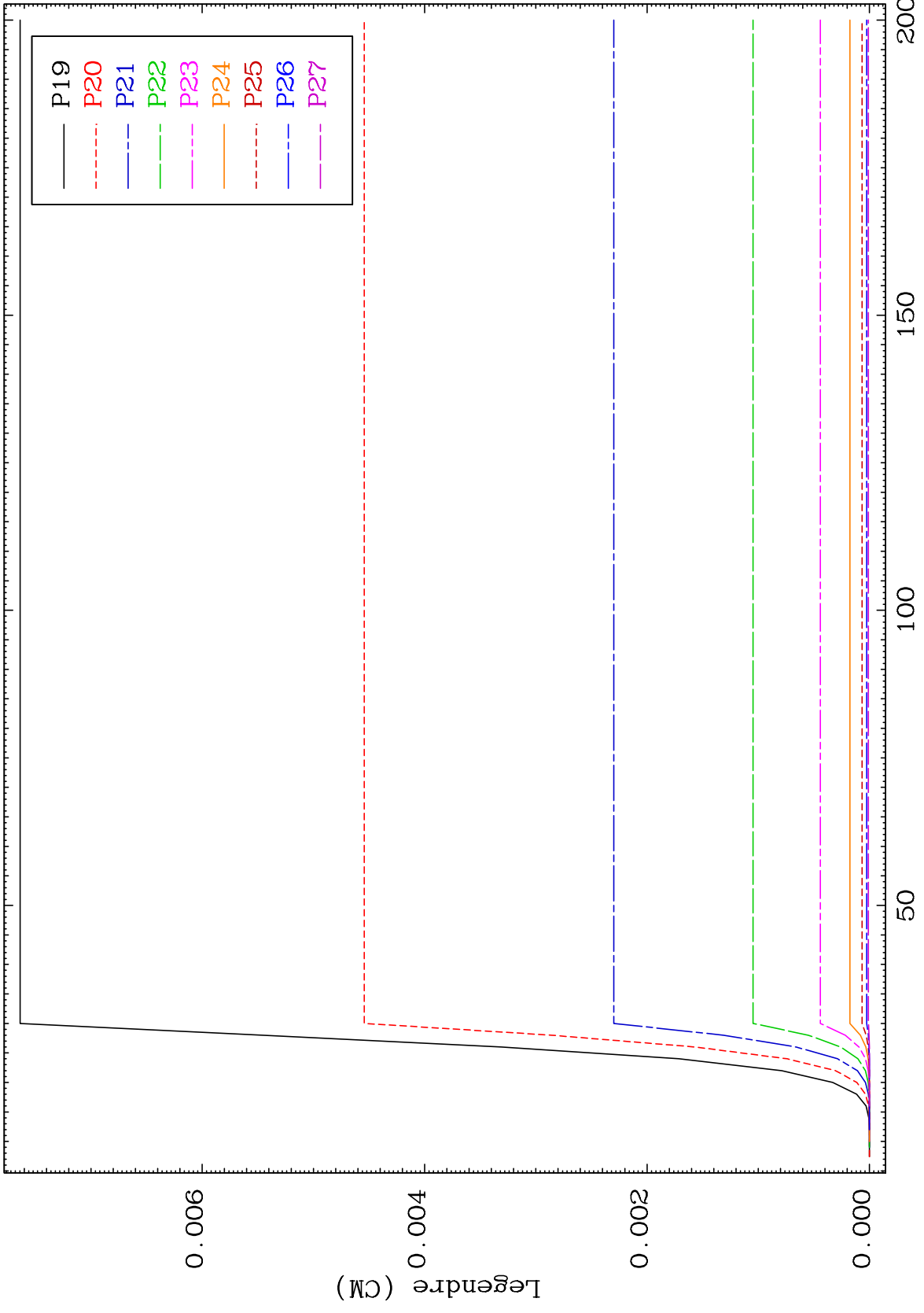
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



82

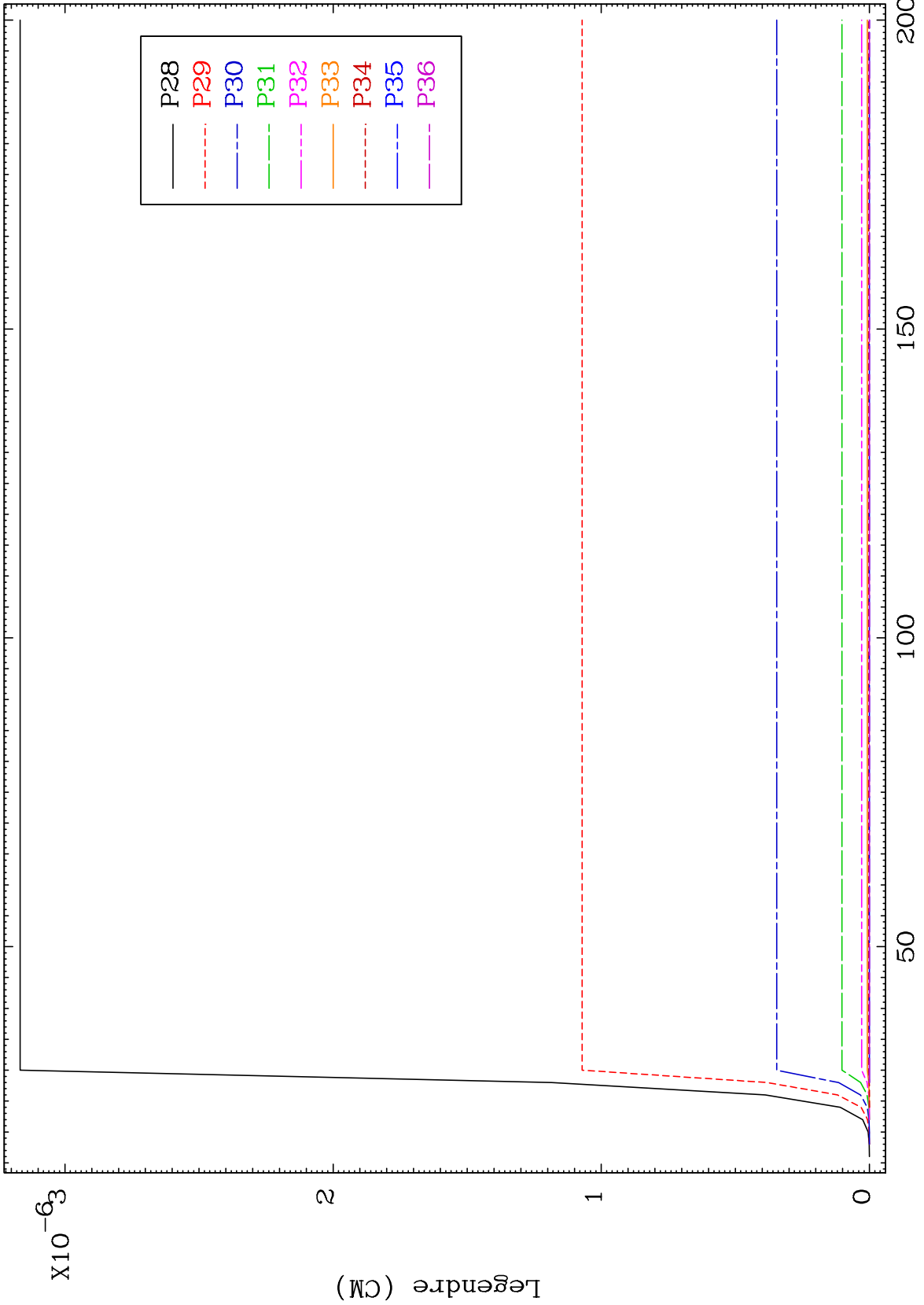
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



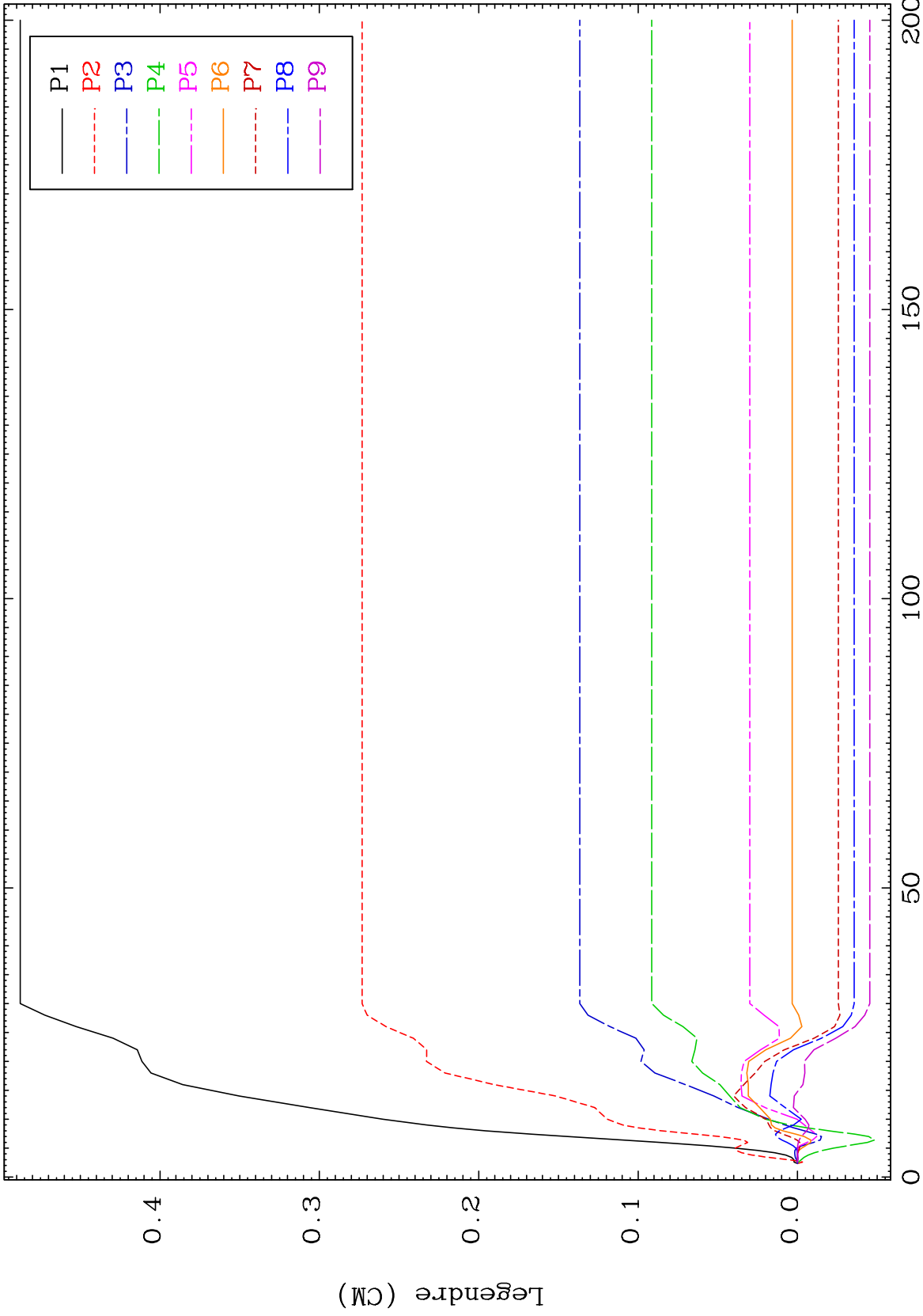
83

54-Xe-130

MAT 5443

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

54-Xe-130



84

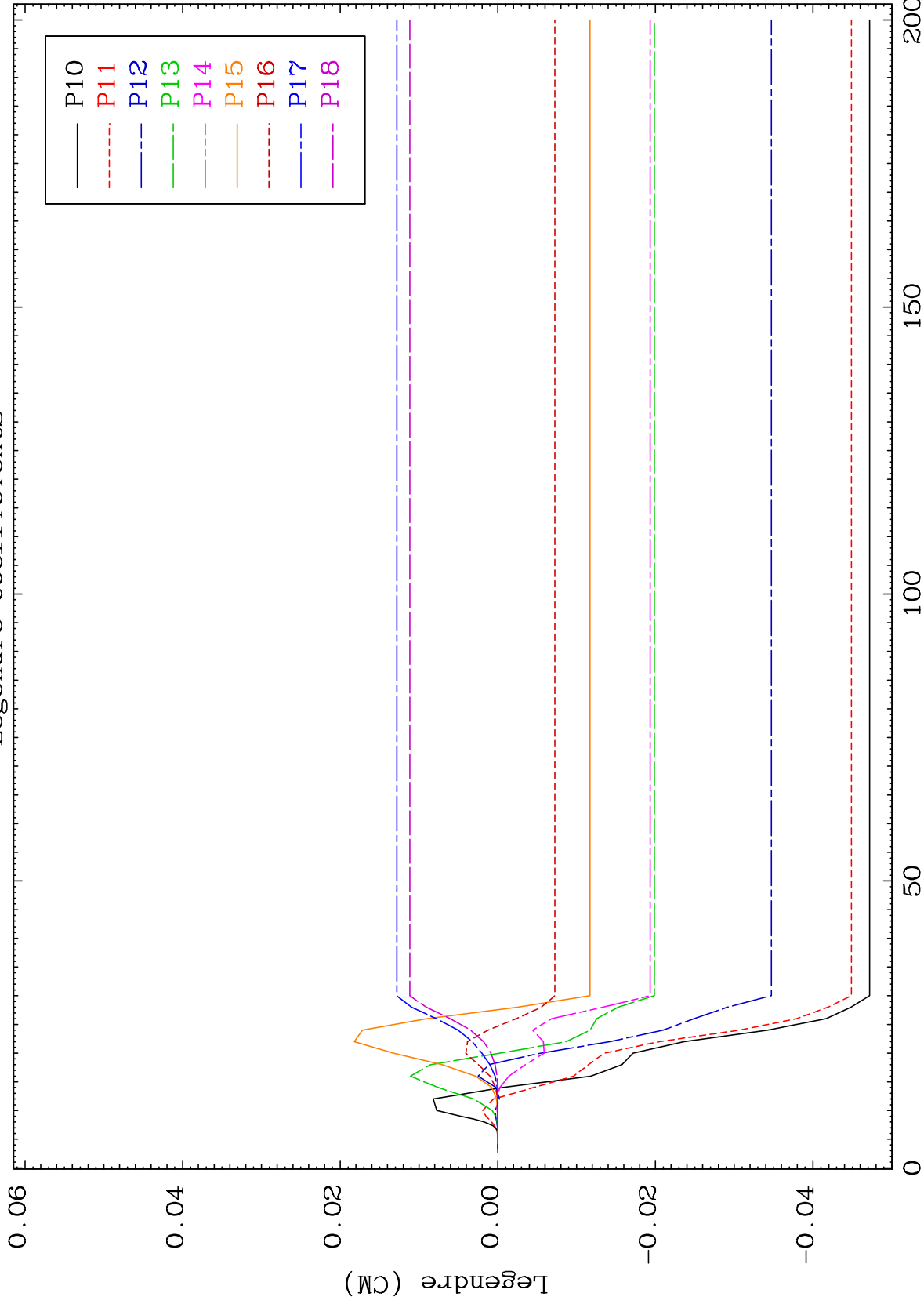
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



85

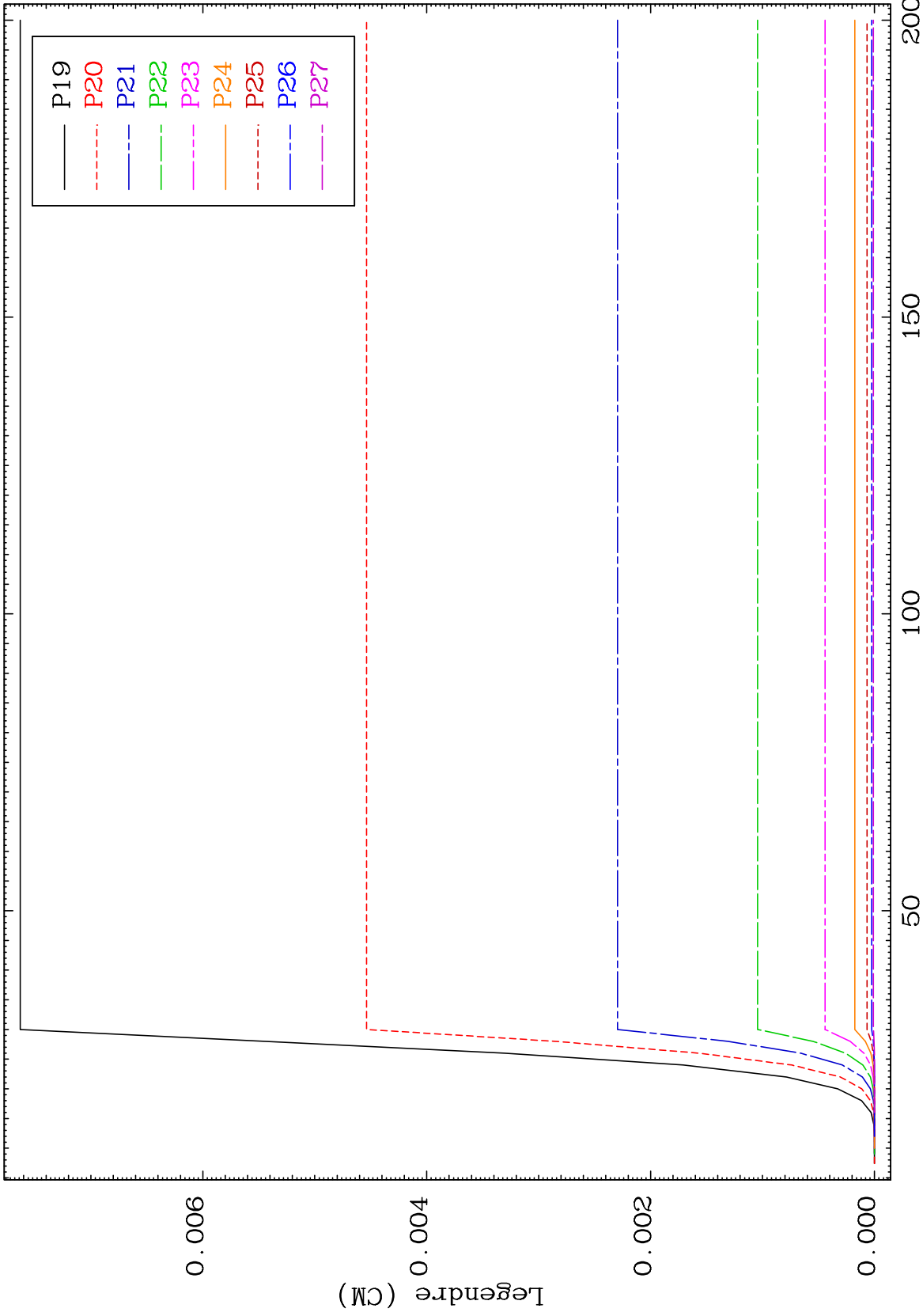
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



86

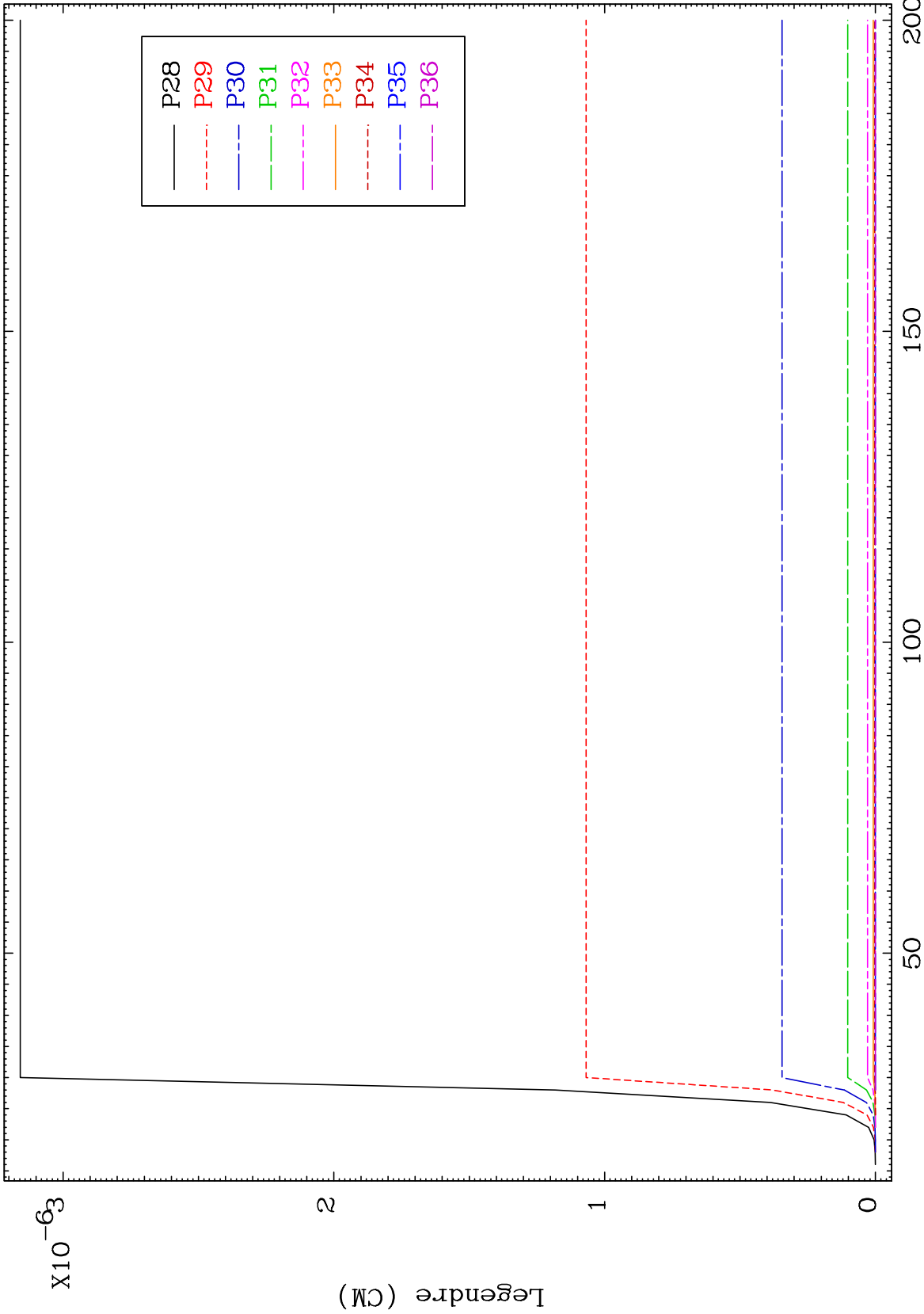
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



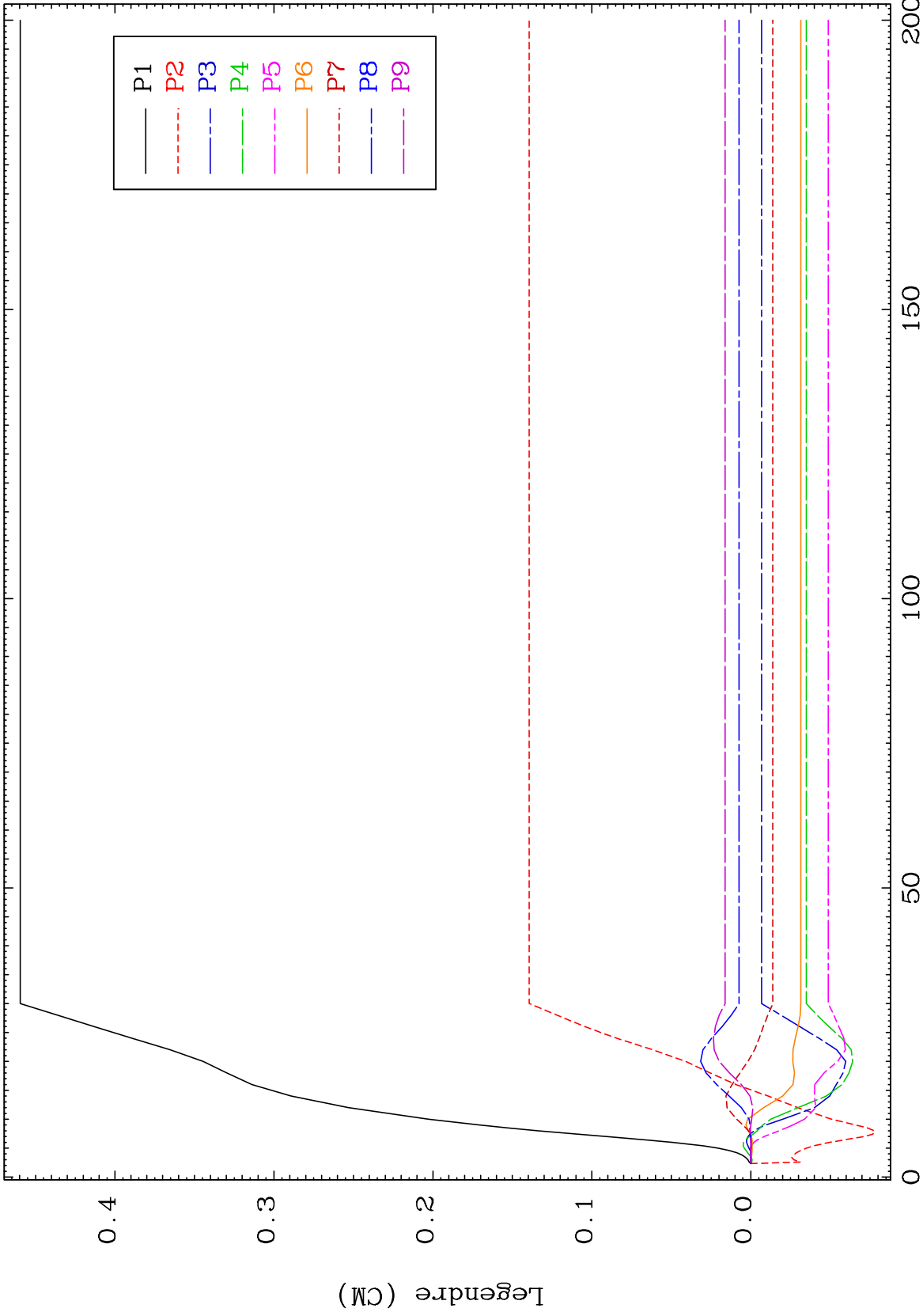
87

54-Xe-130

MAT 5443

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

54-Xe-130



88

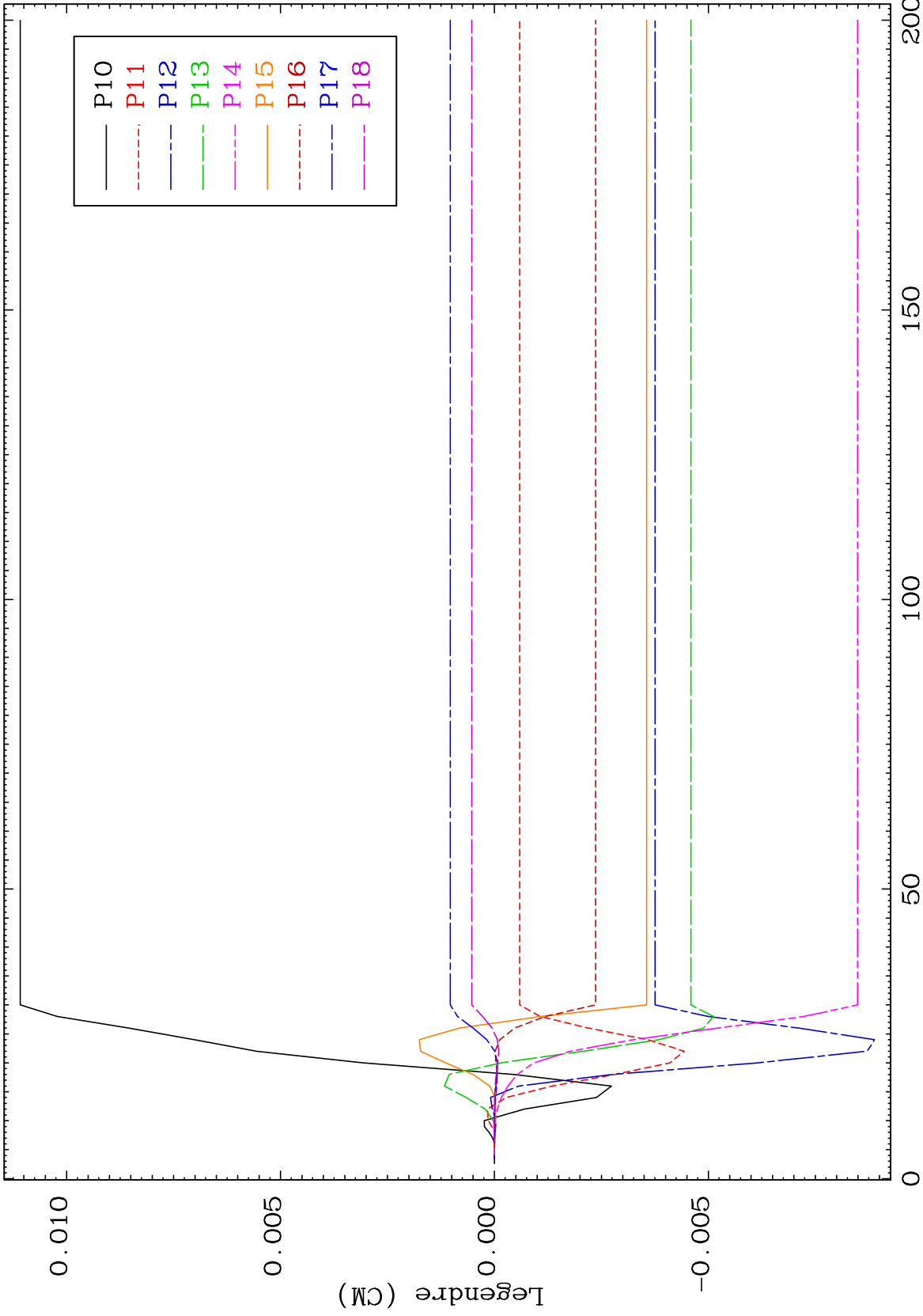
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



89

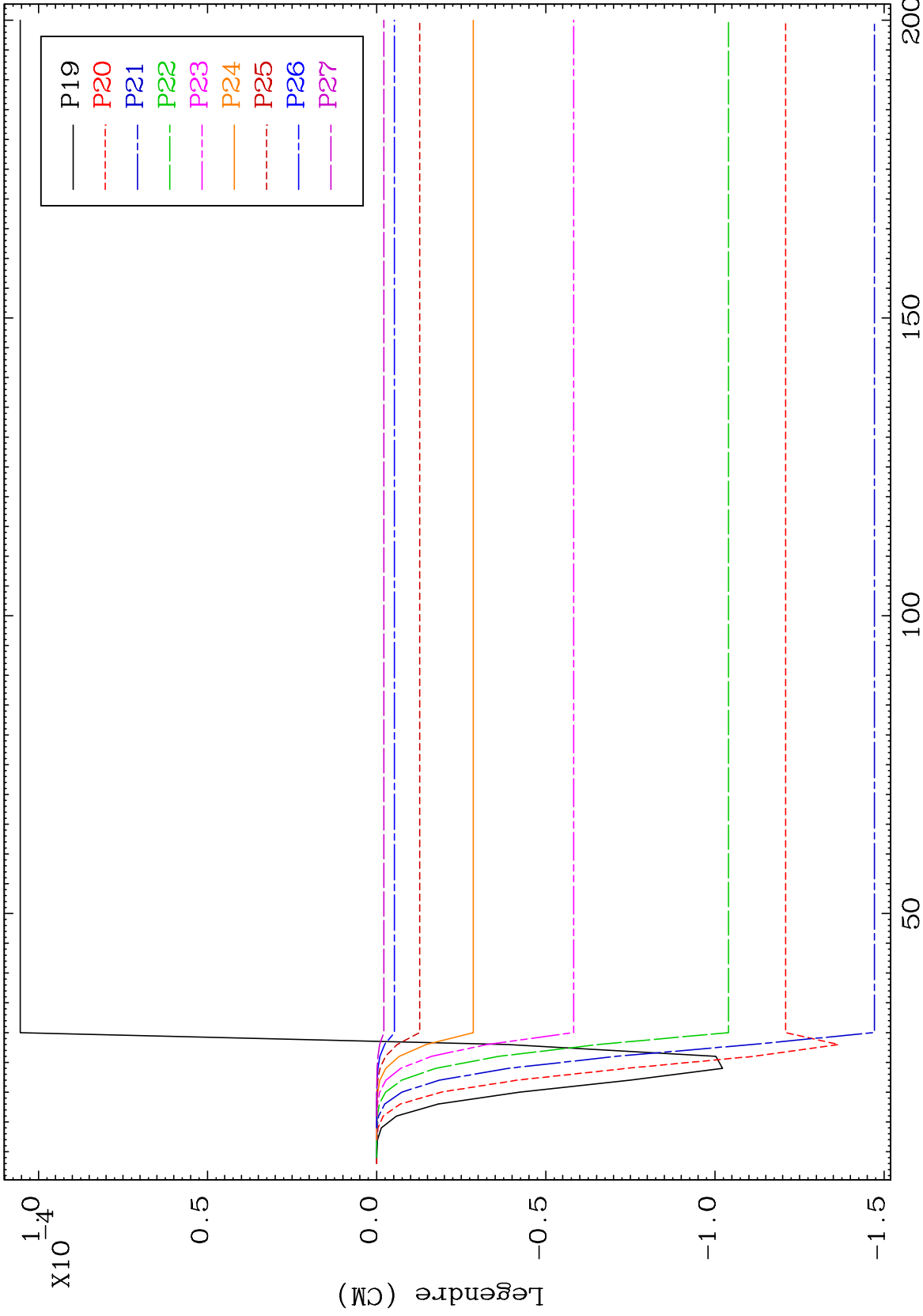
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130

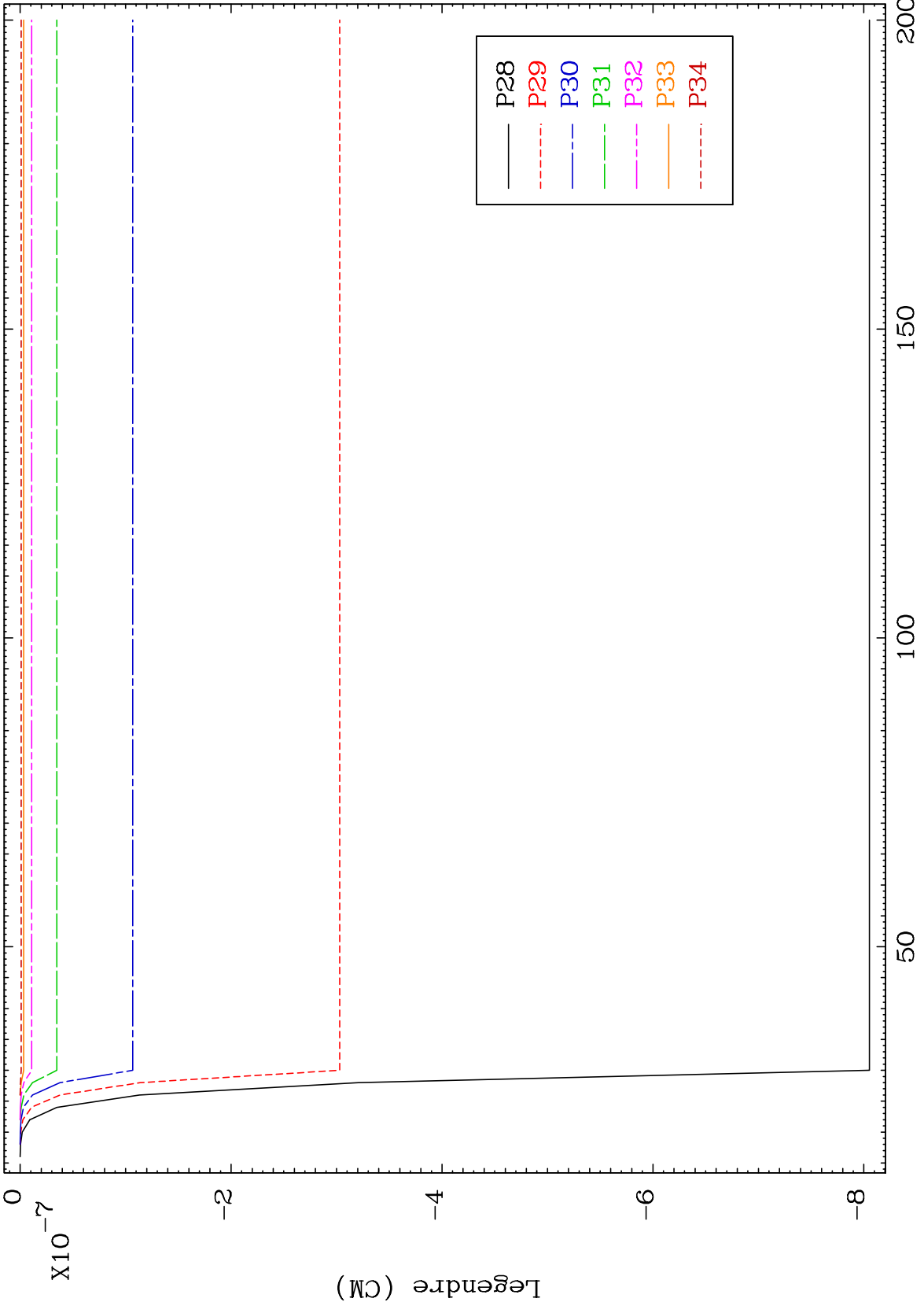


90

Incident Energy (MeV)

54-Xe-130

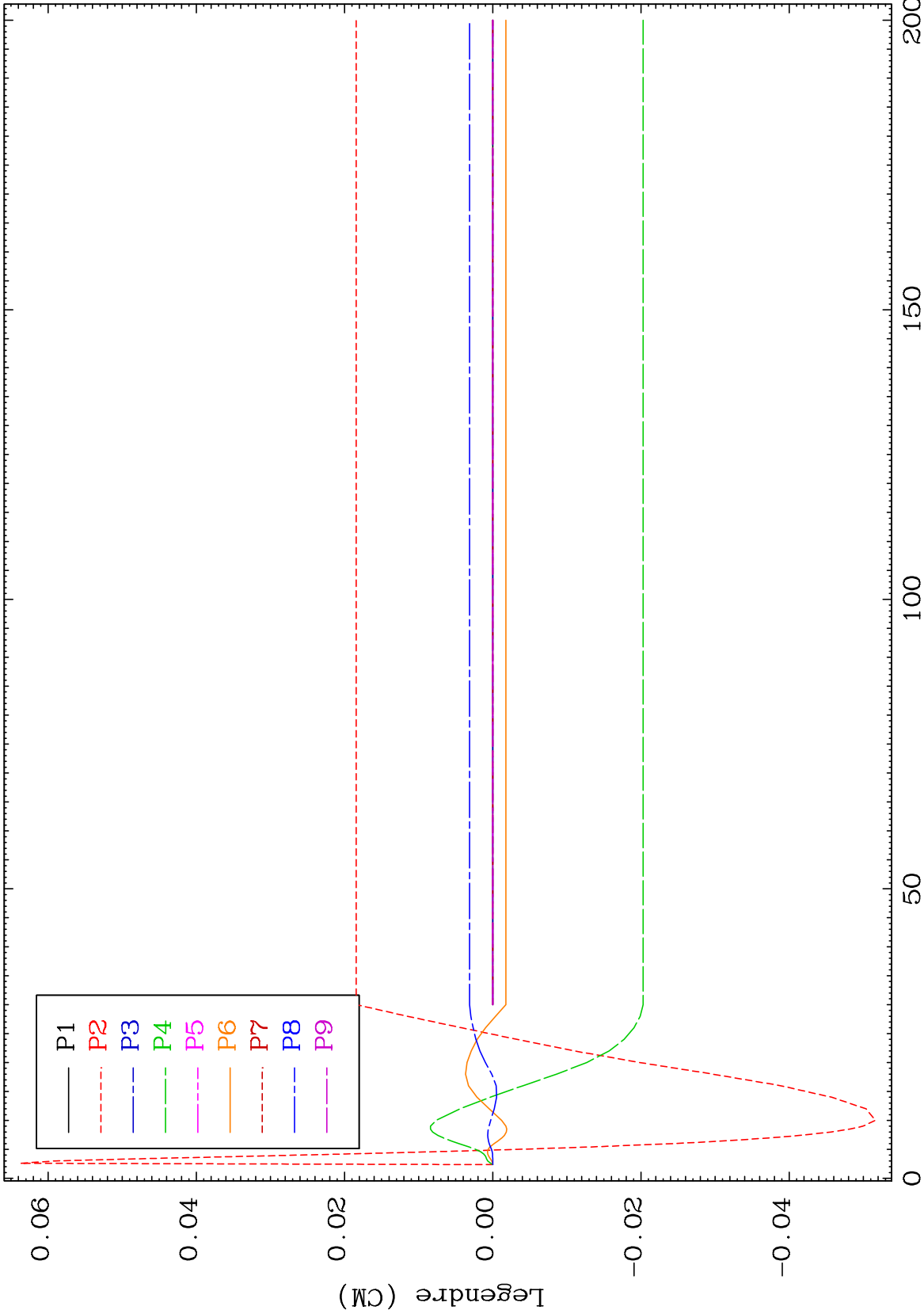
MAT 5443 MT= 69 (n,n') Level Legendre Coefficients 54-Xe-130



MAT 5443

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

54-Xe-130



92

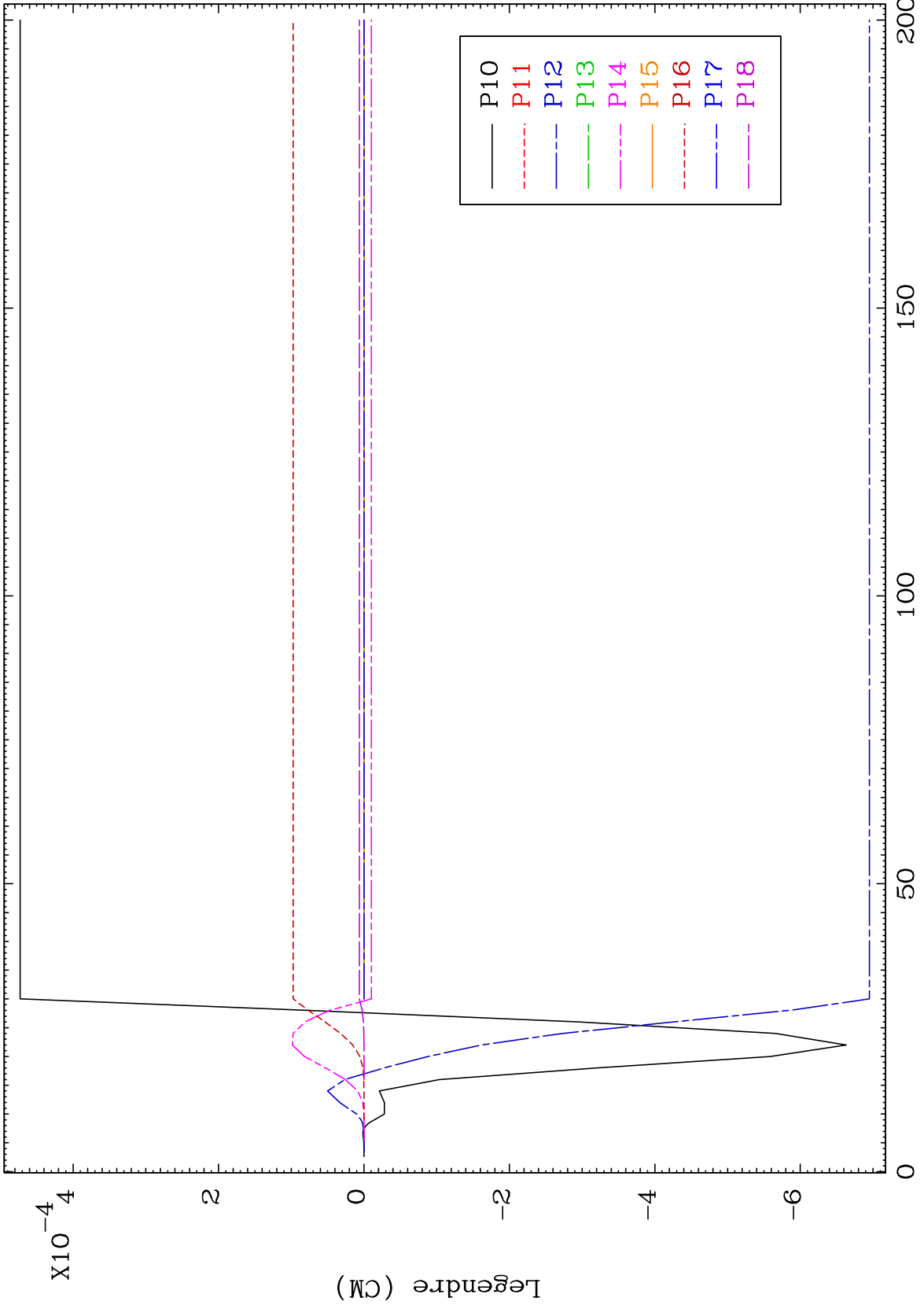
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



93

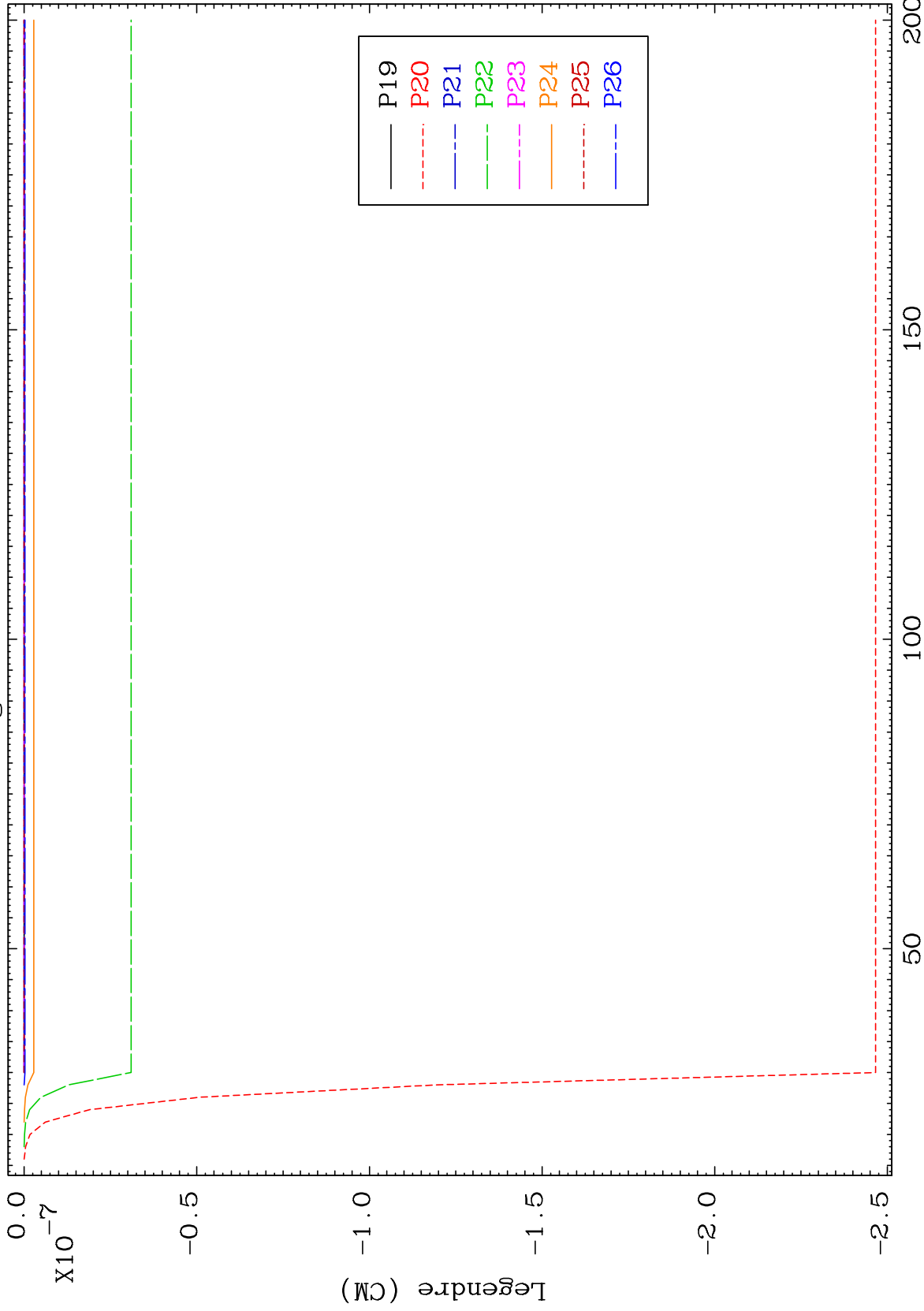
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



94

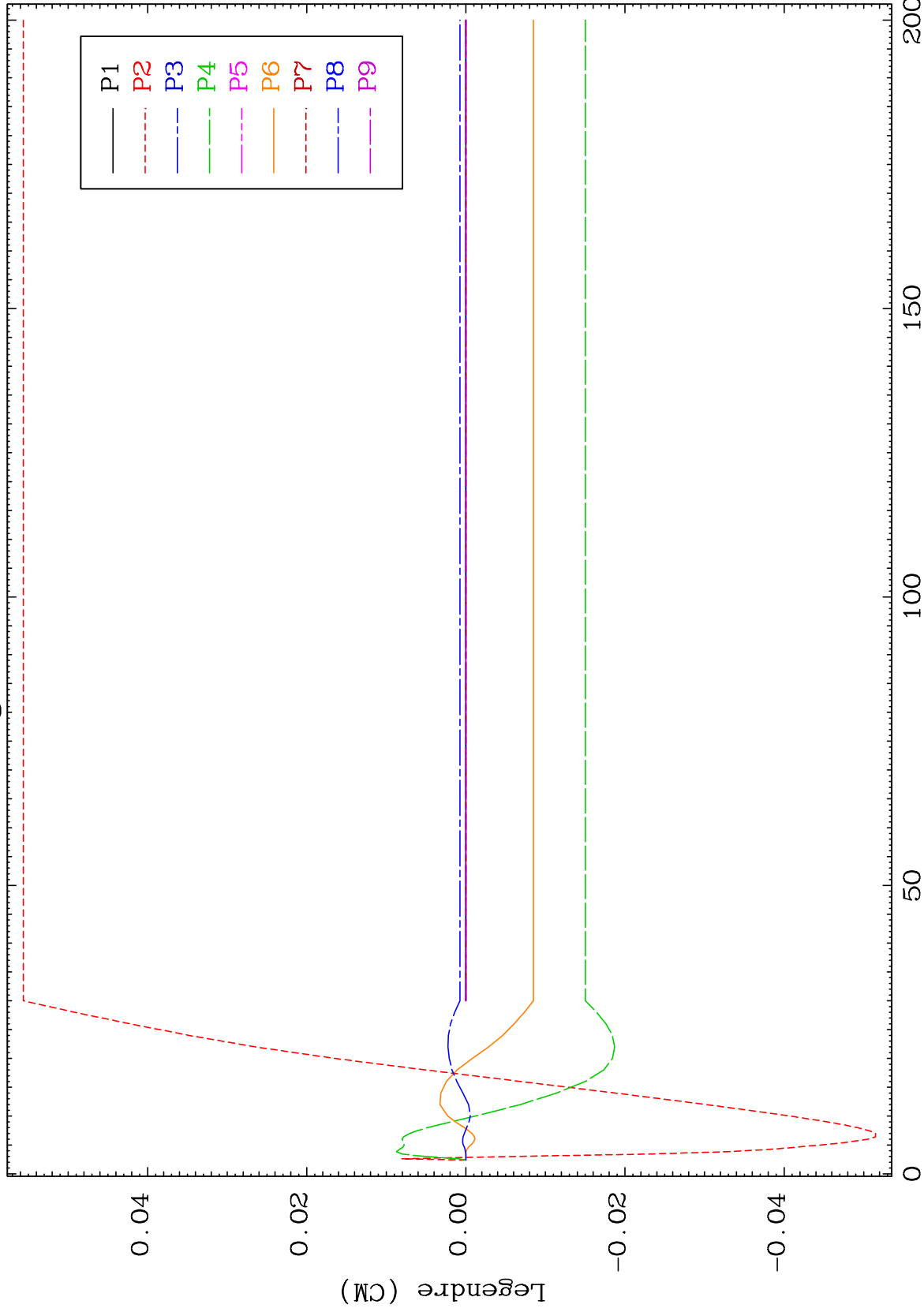
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



95

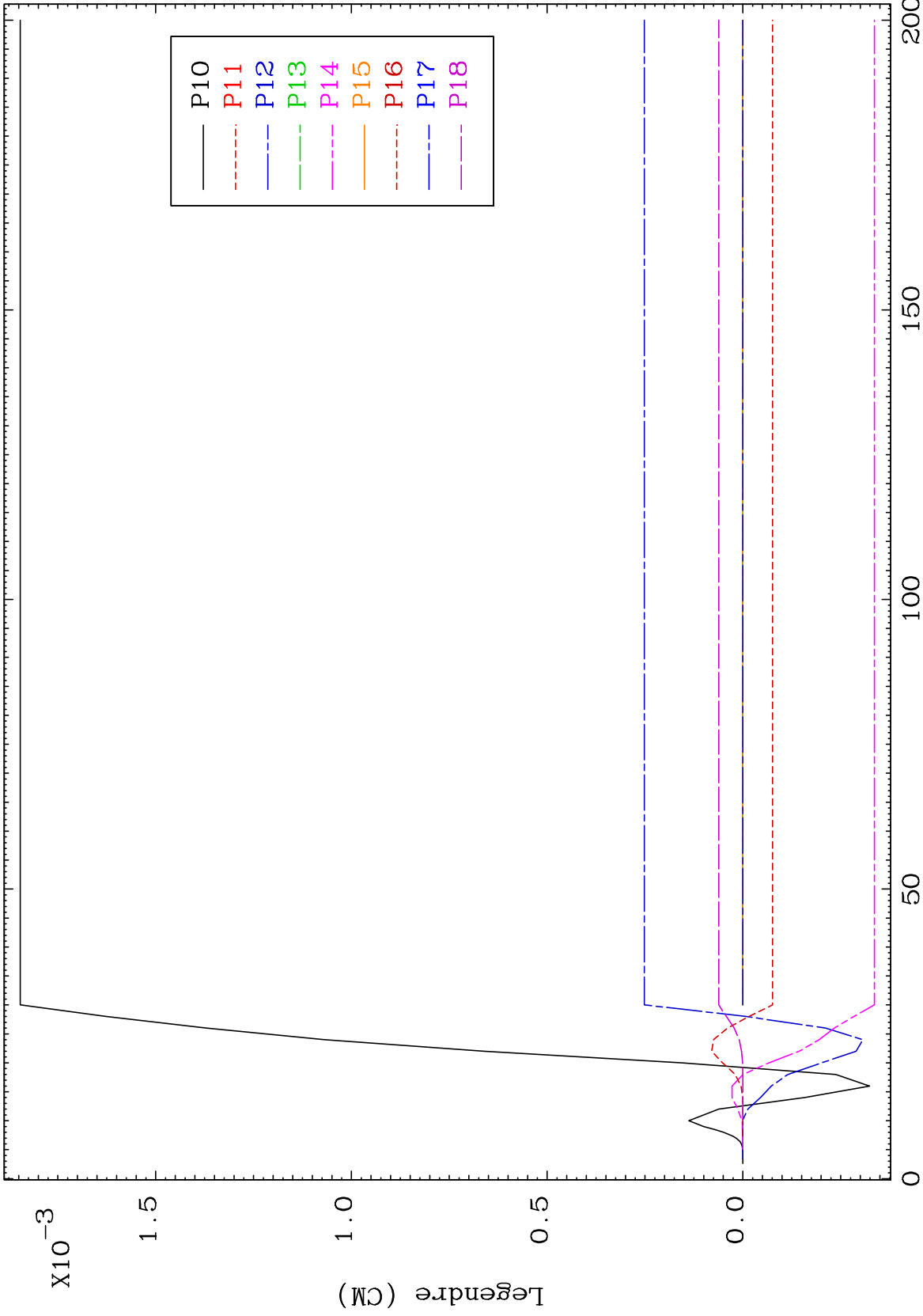
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



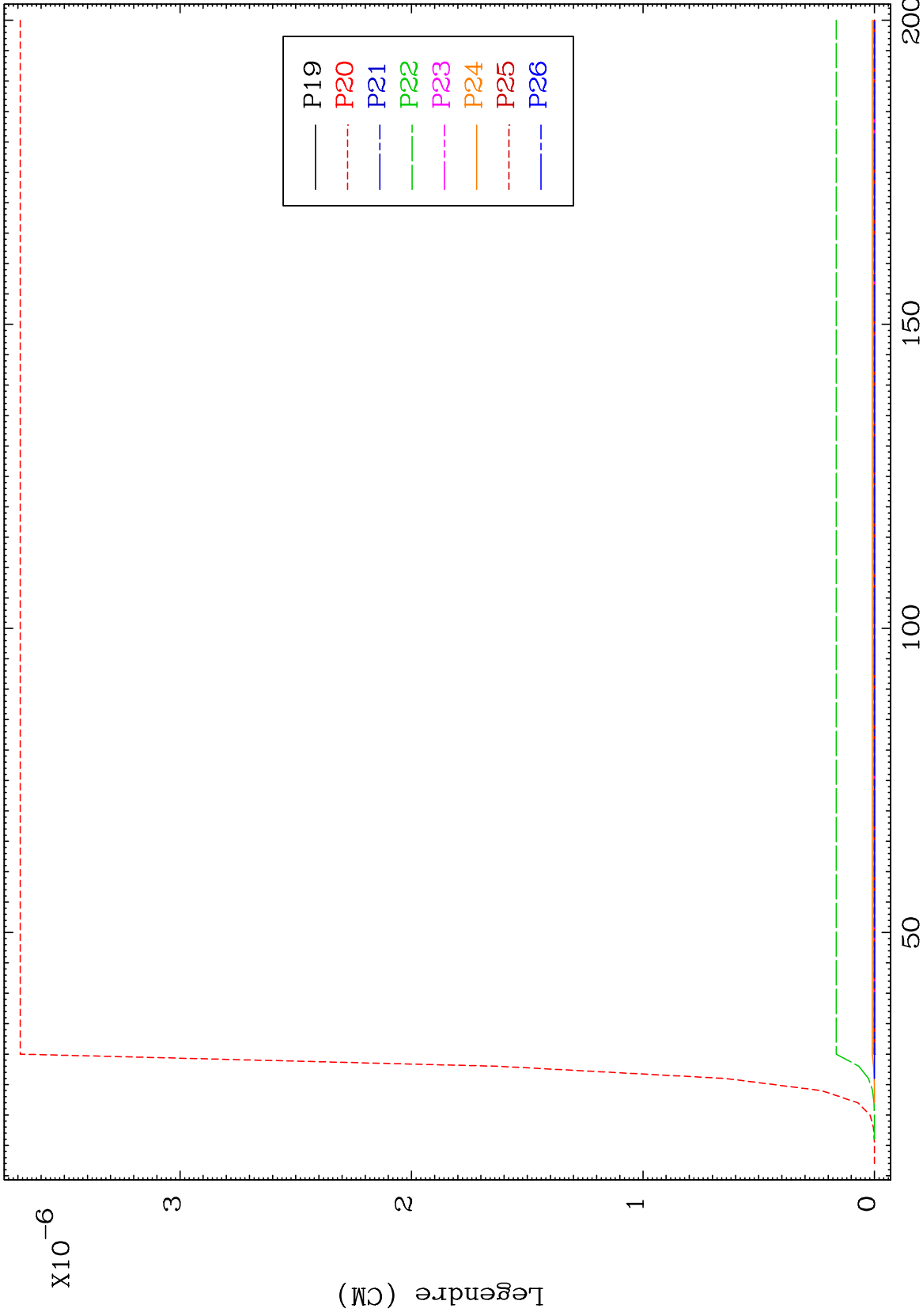
96

54-Xe-130

MAT 5443

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

54-Xe-130



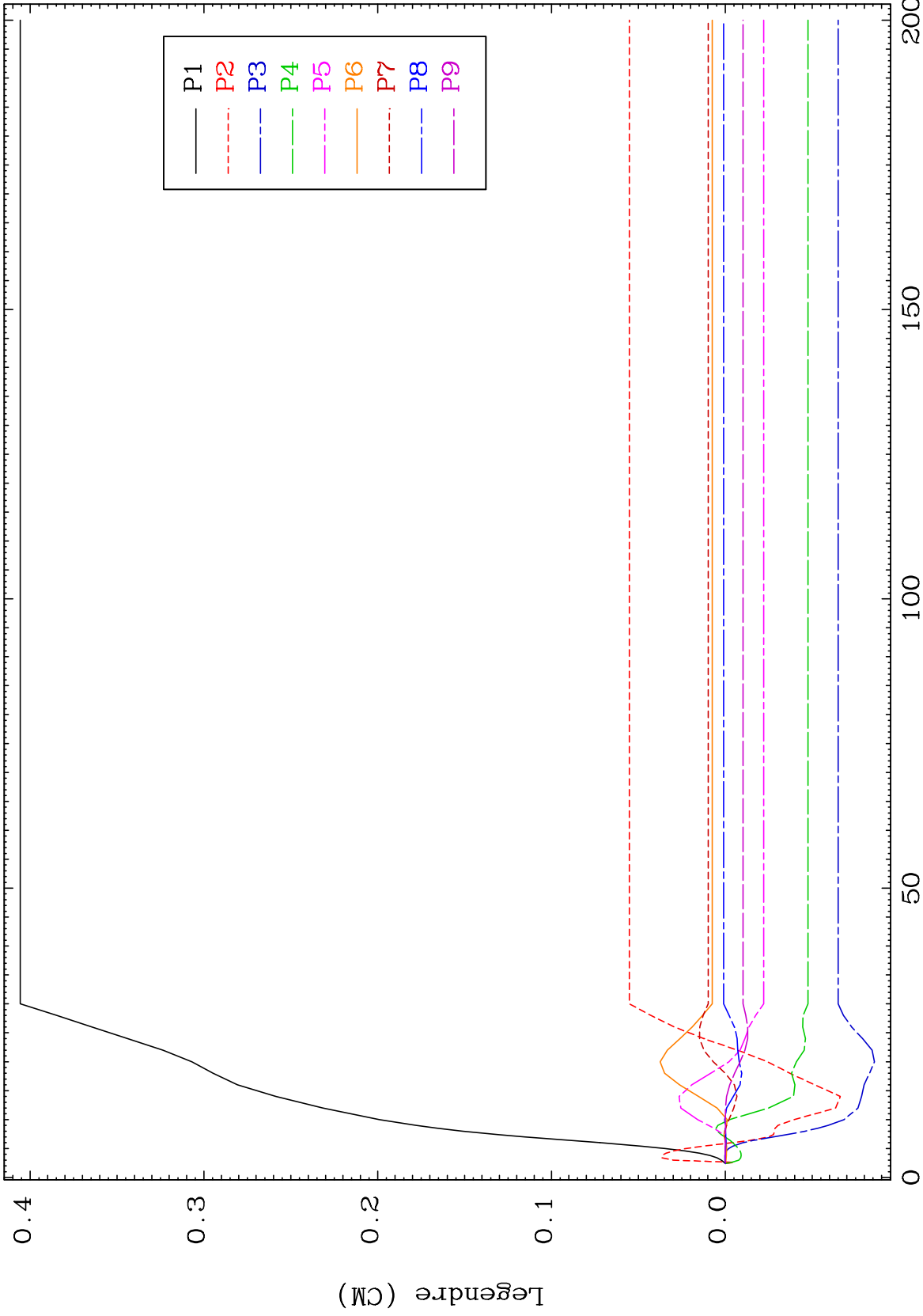
97

54-Xe-130

MAT 5443

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

54-Xe-130



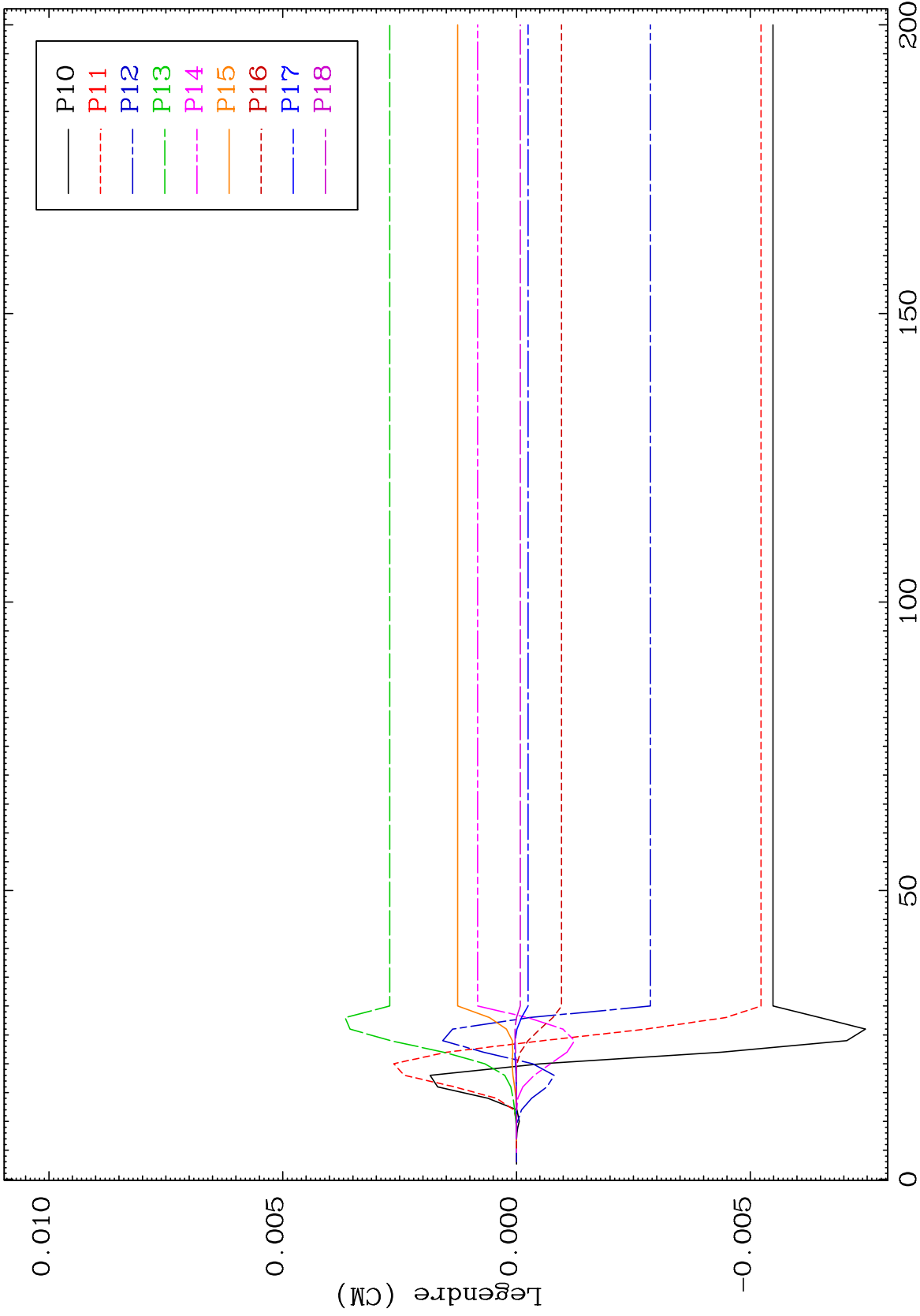
98

54-Xe-130

MAT 5443

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

54-Xe-130



99

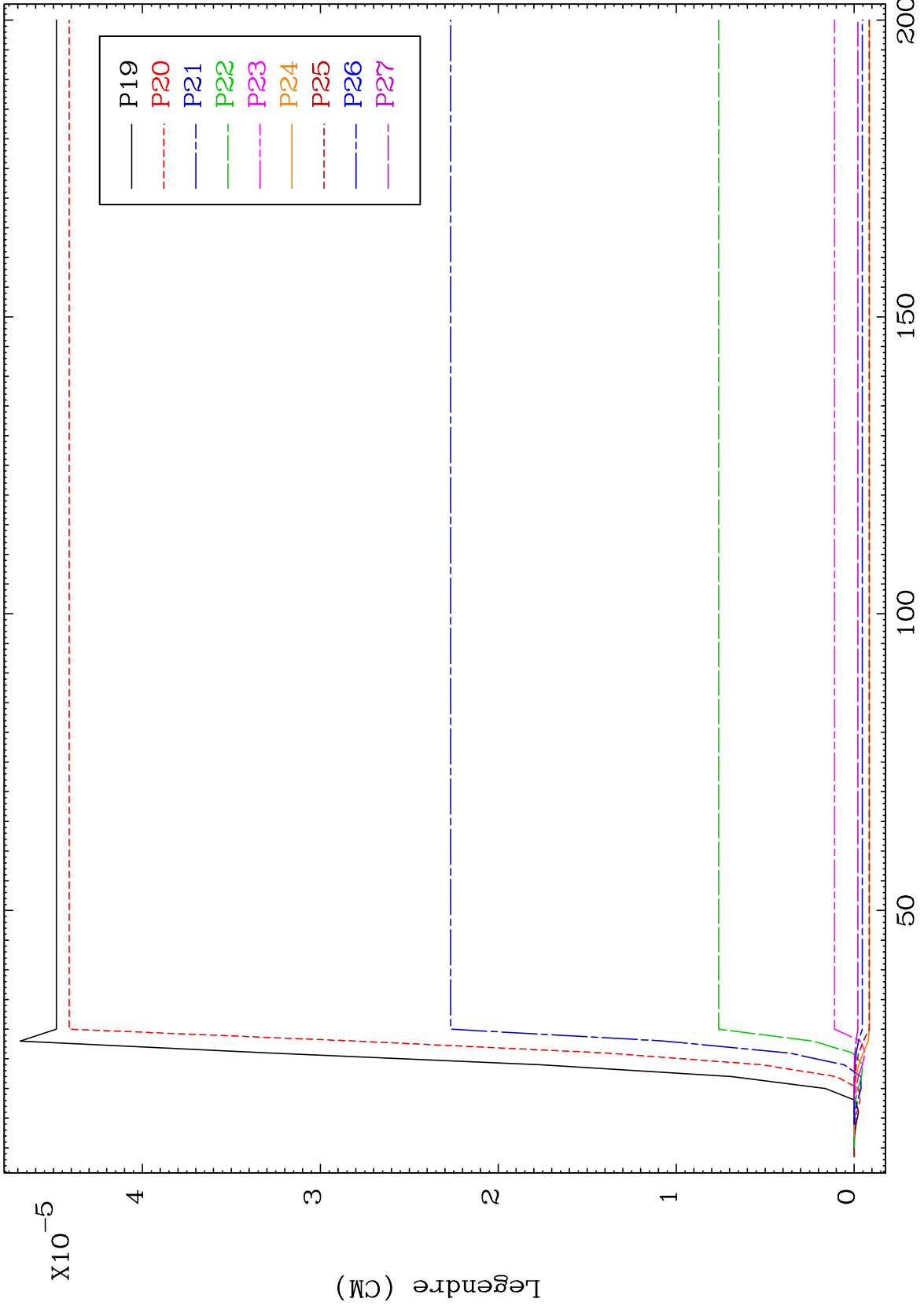
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



54-Xe-130

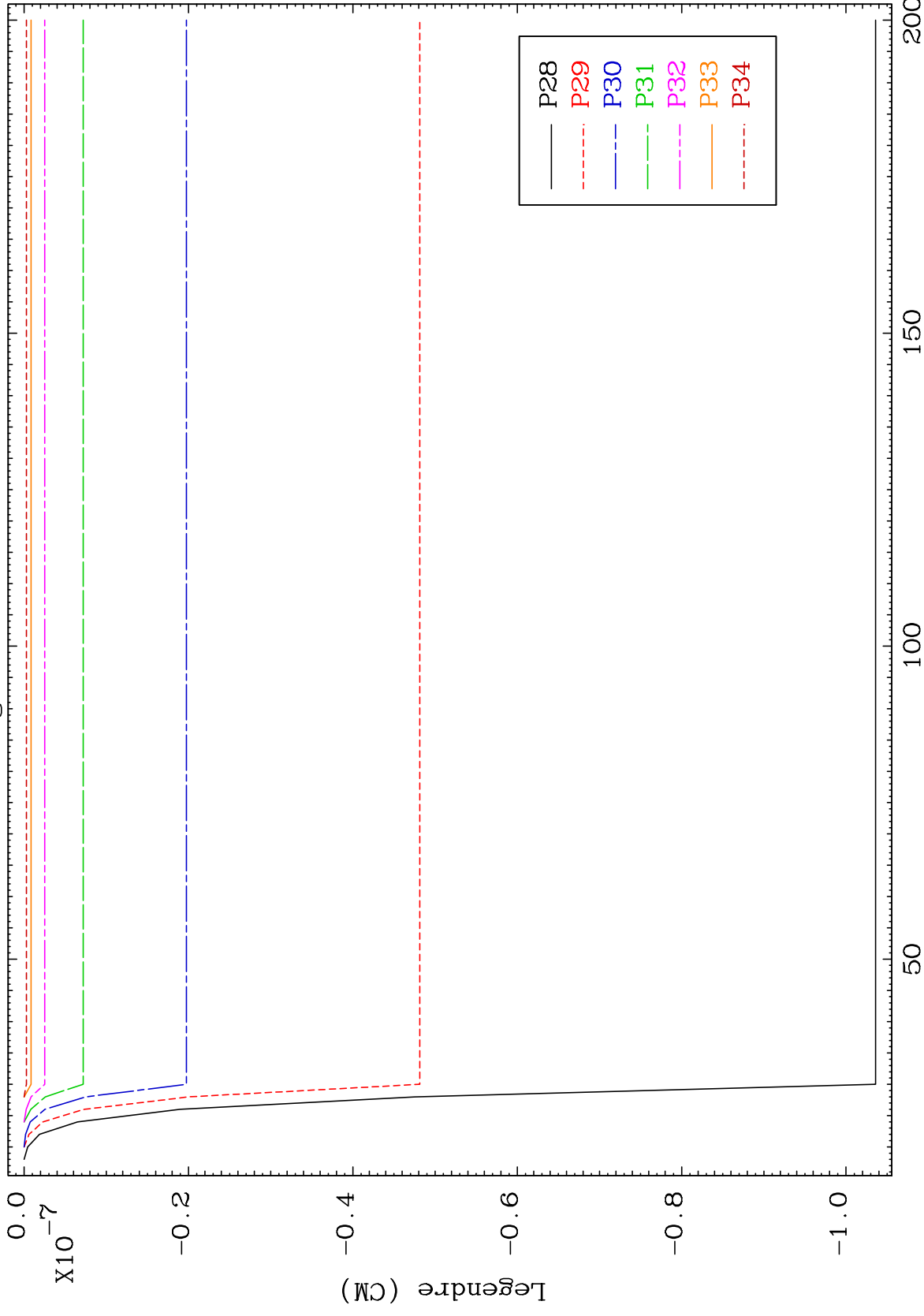
Incident Energy (MeV)

100

MAT 5443

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

54-Xe-130



54-Xe-130

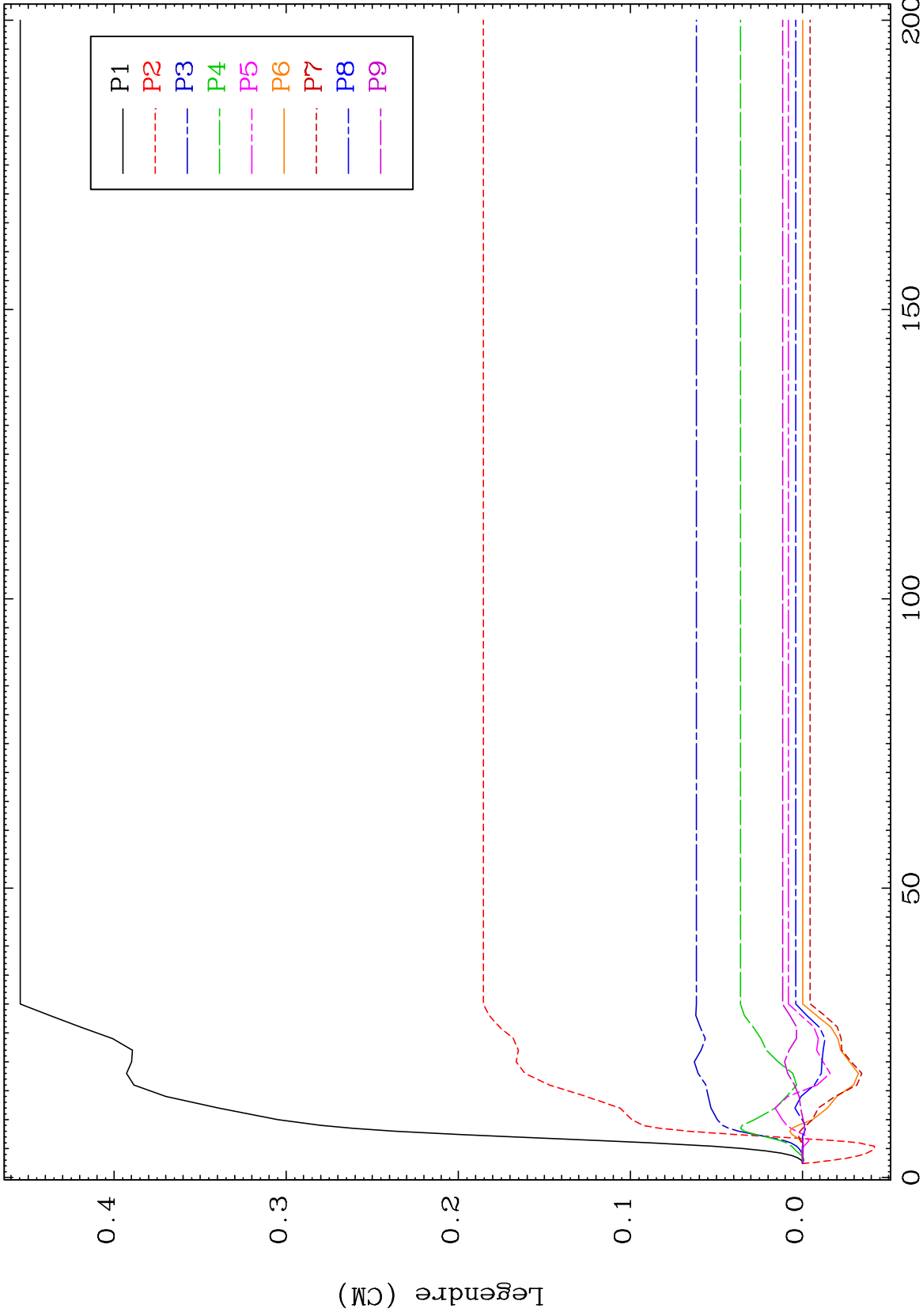
Incident Energy (MeV)

101

MAT 5443

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

54-Xe-130



54-Xe-130

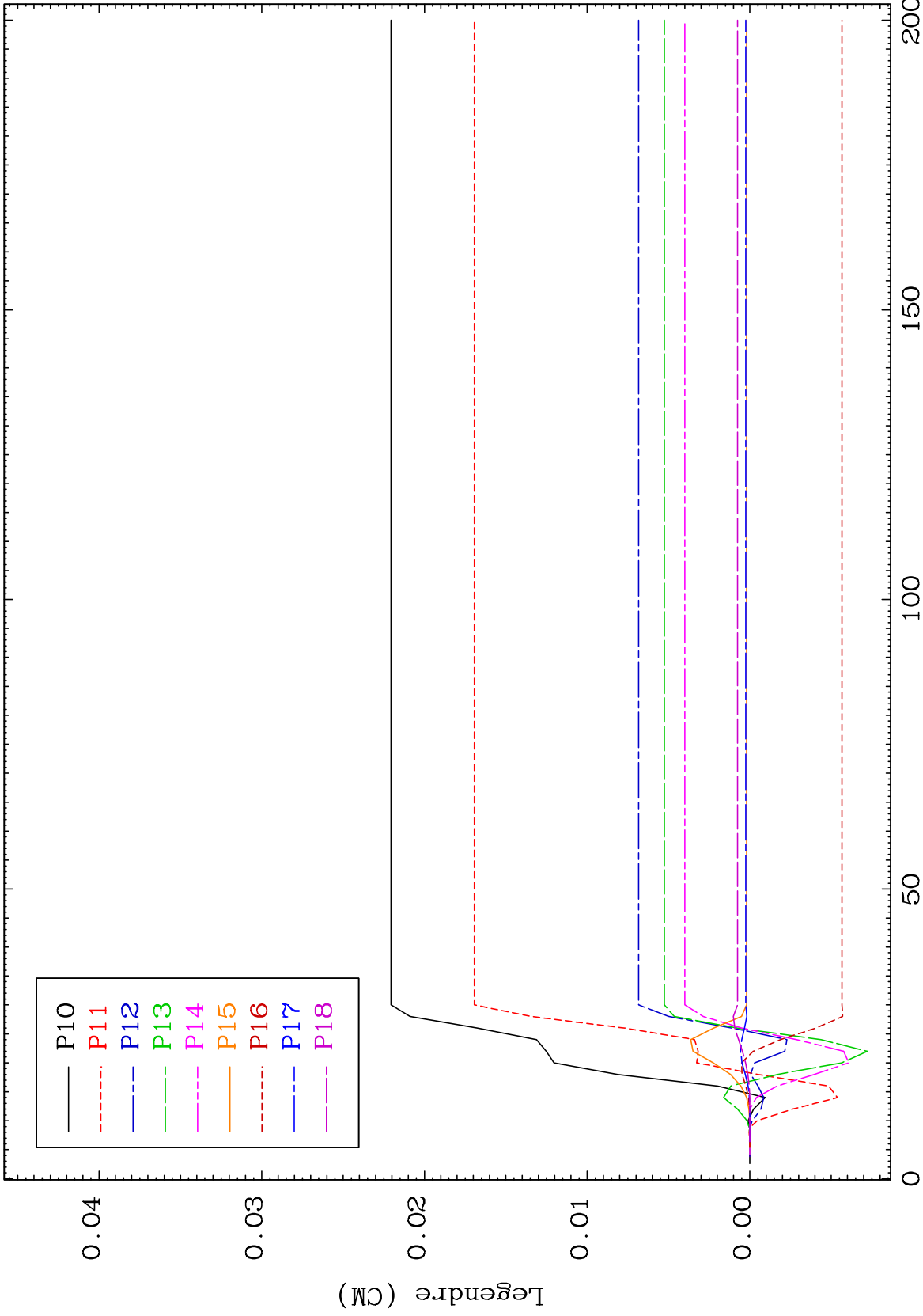
Incident Energy (MeV)

102

MAT 5443

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

54-Xe-130



103

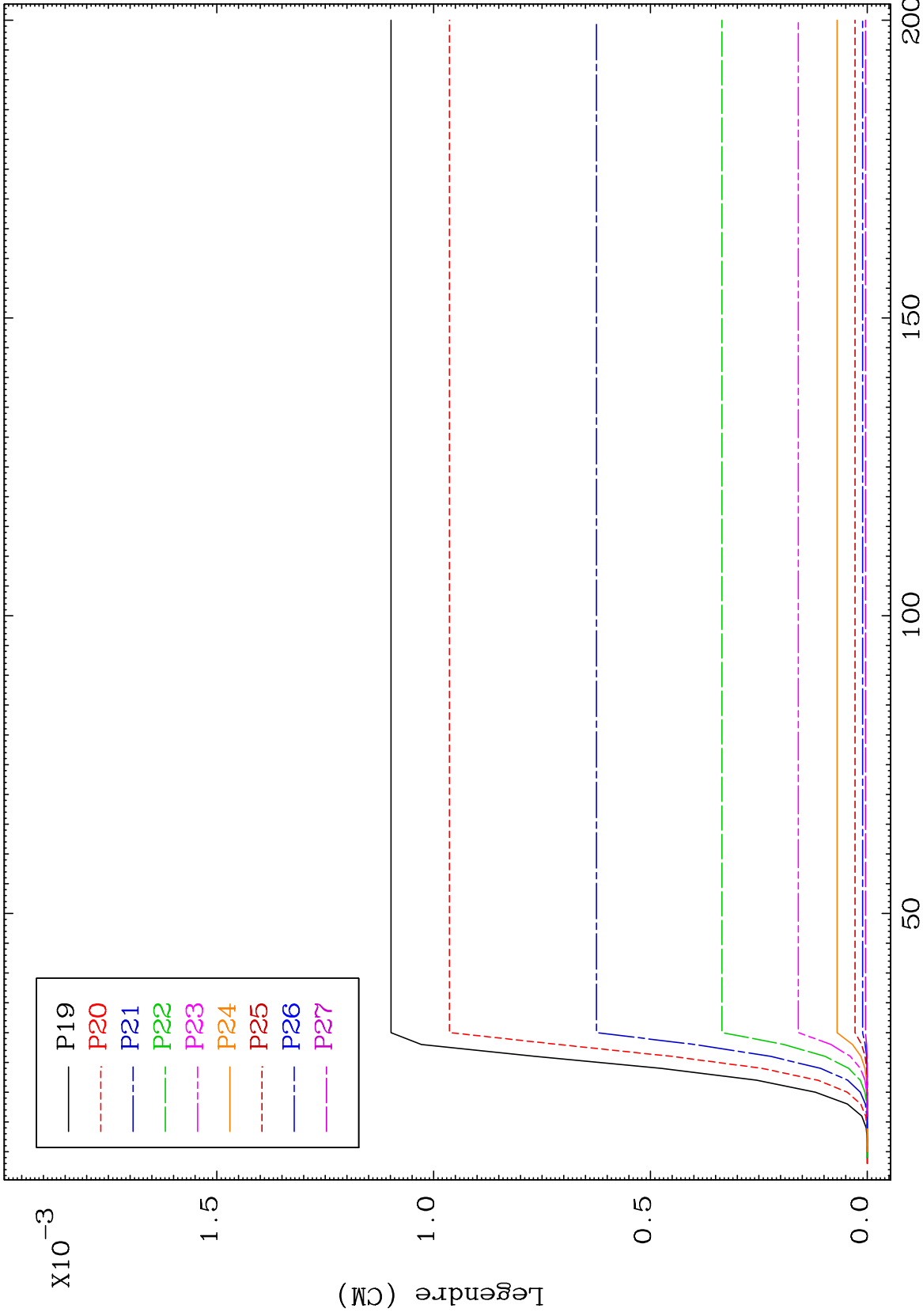
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



104

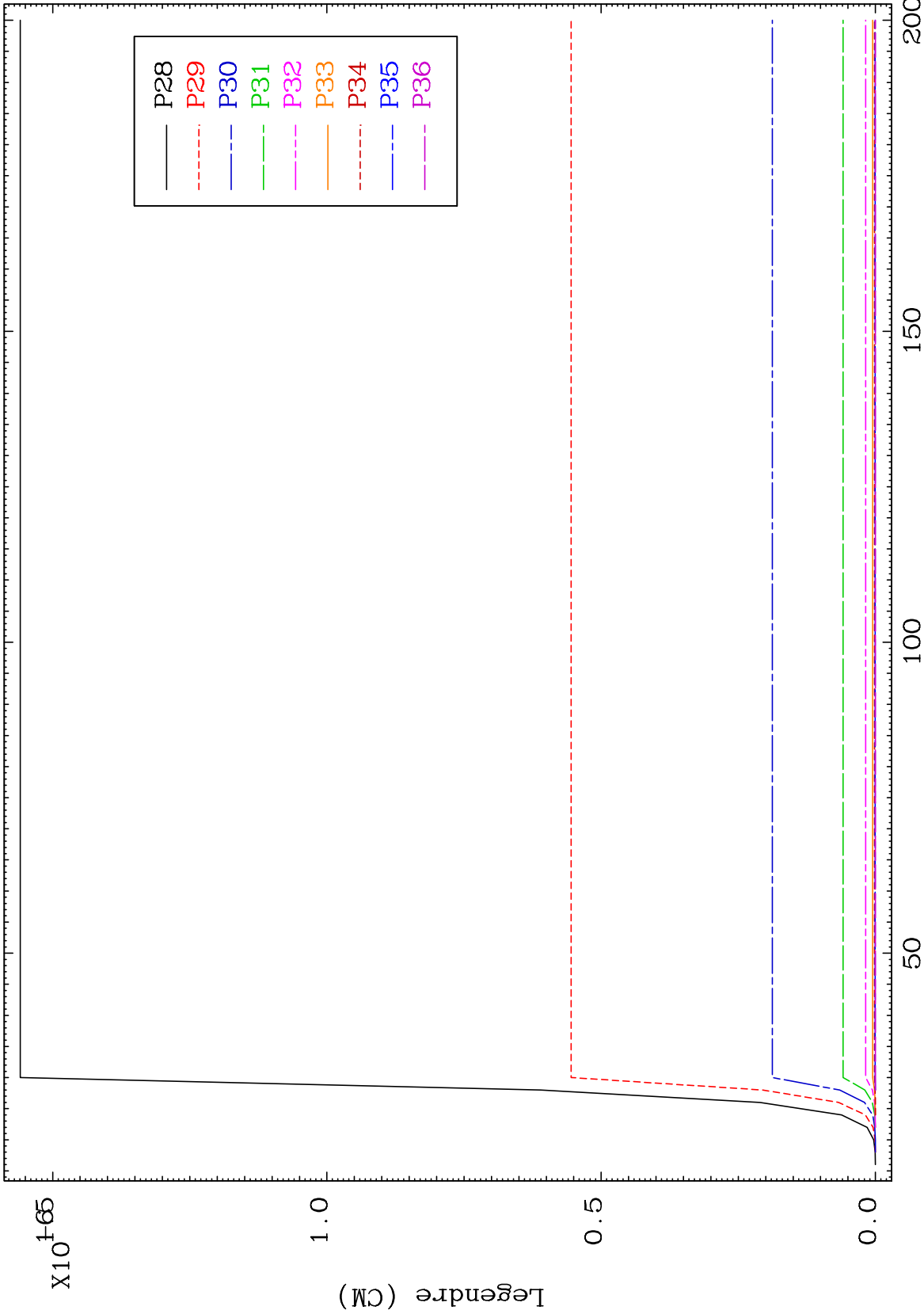
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



105

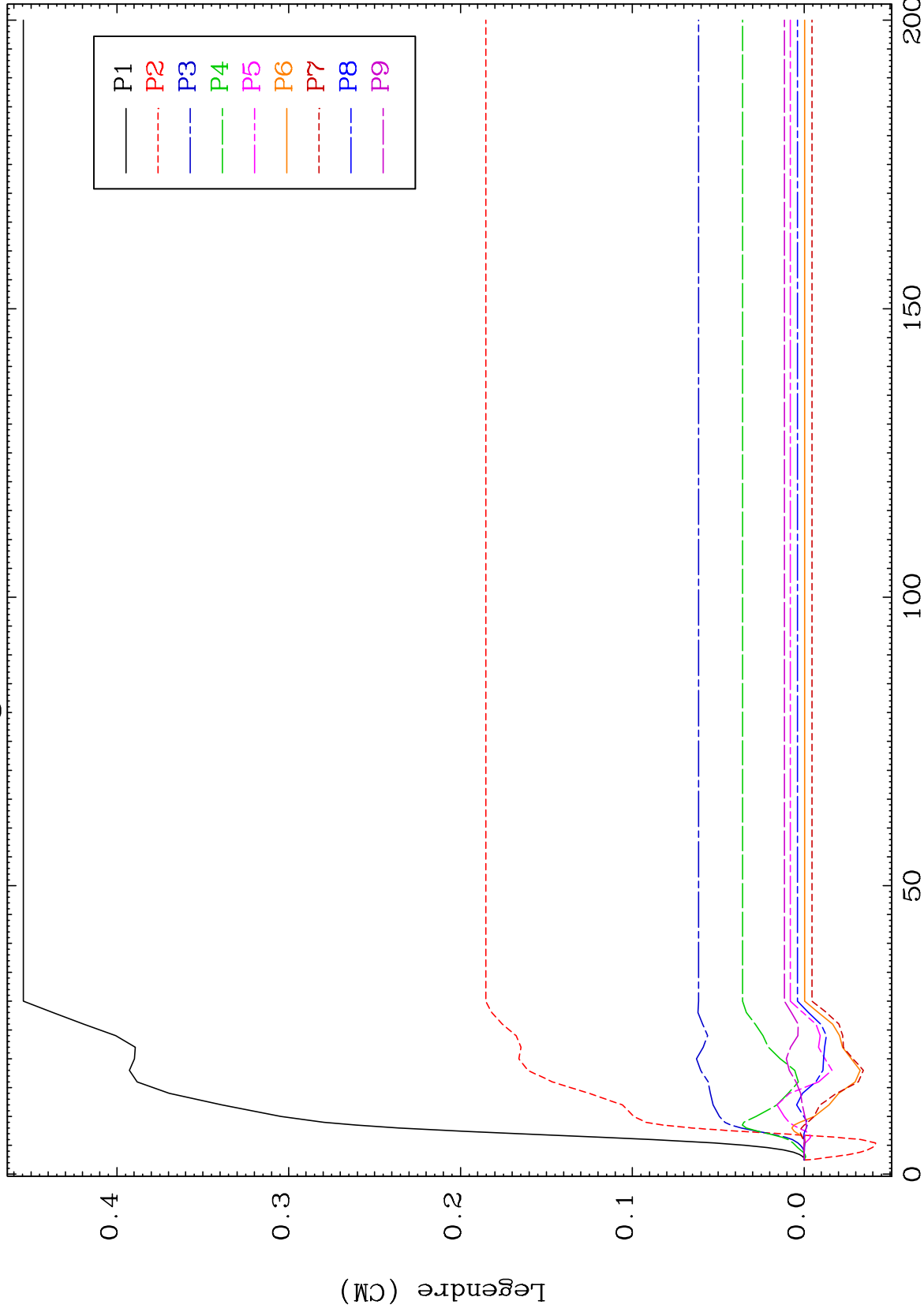
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



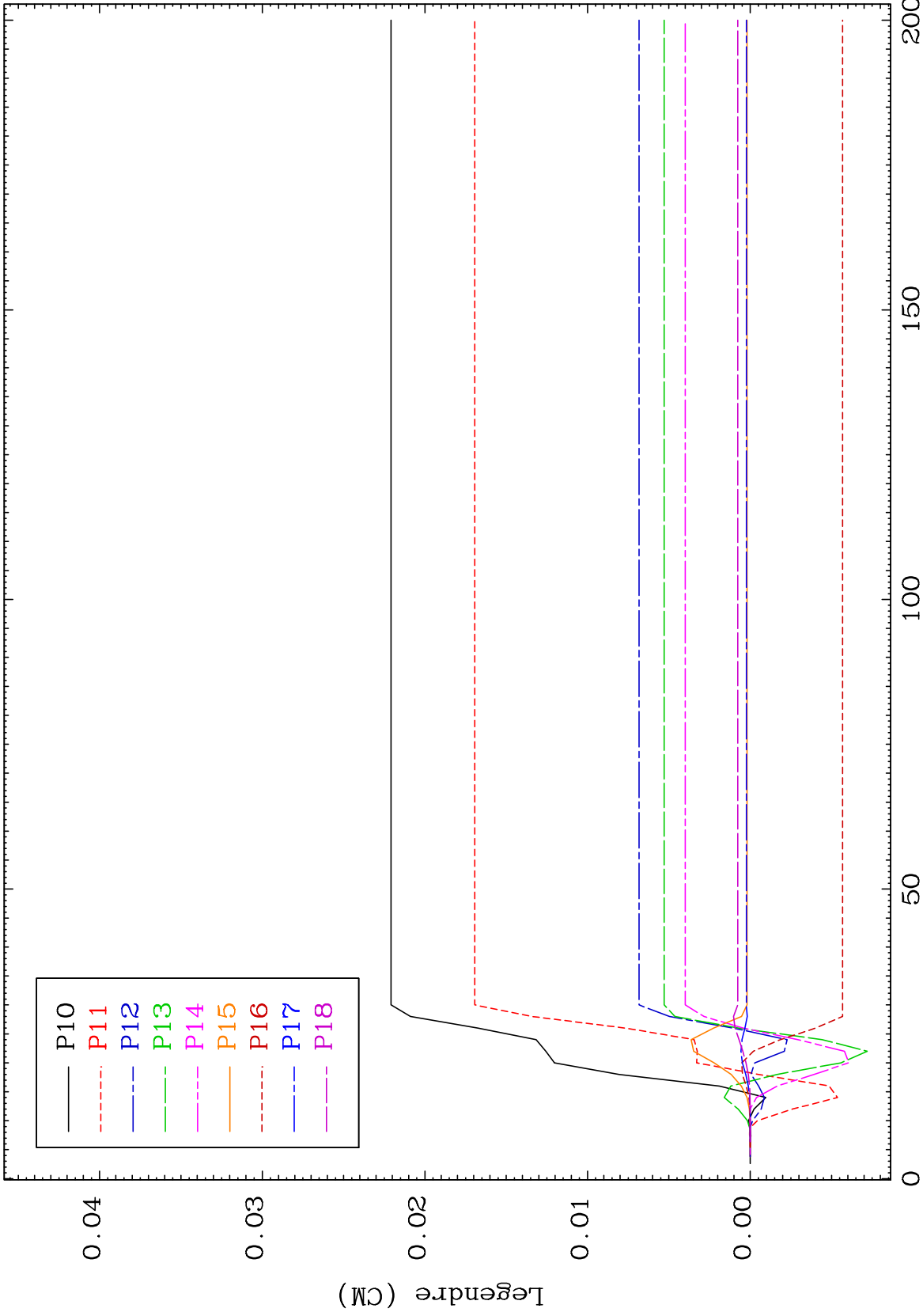
106

54-Xe-130

MAT 5443

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

54-Xe-130



107

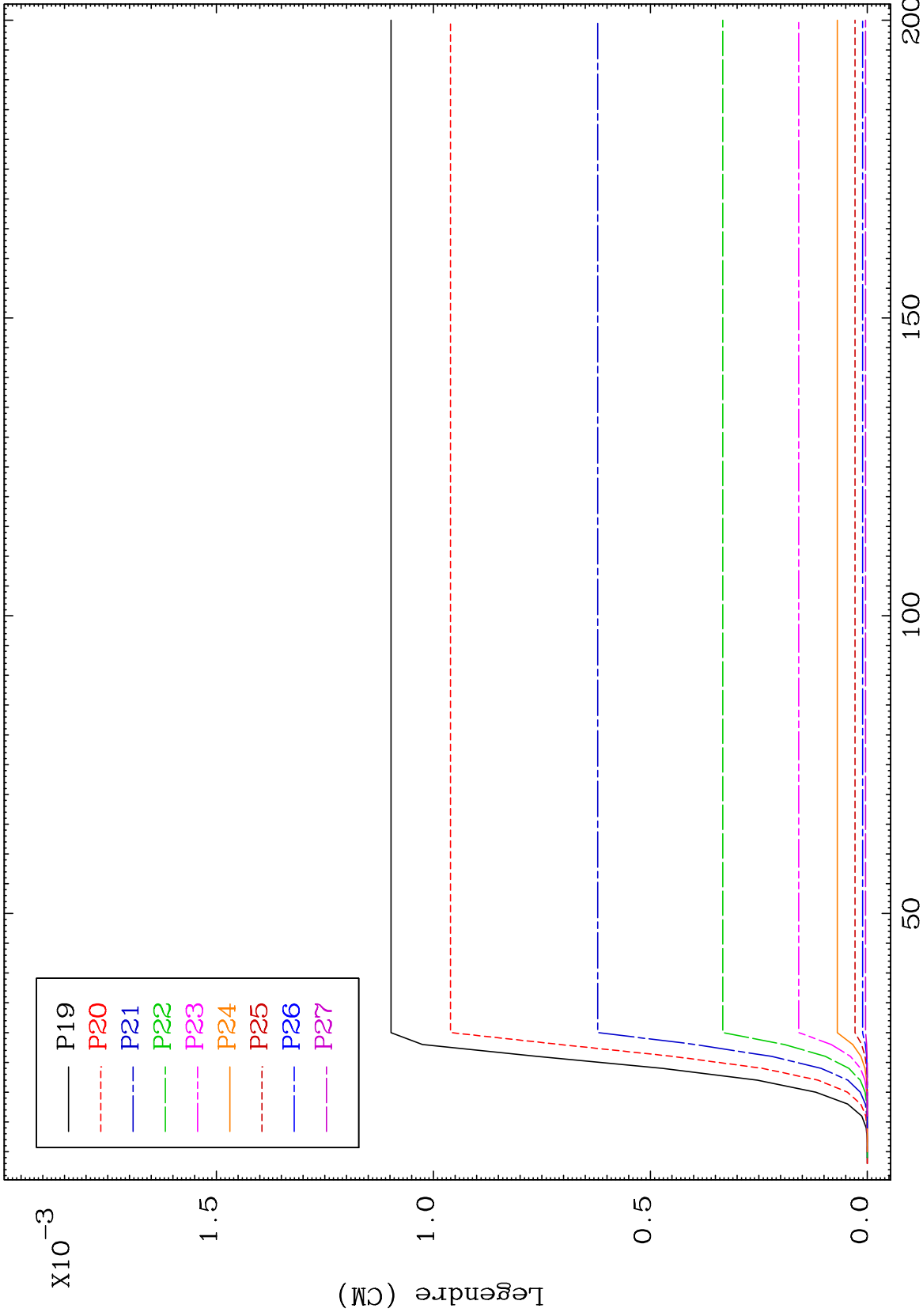
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



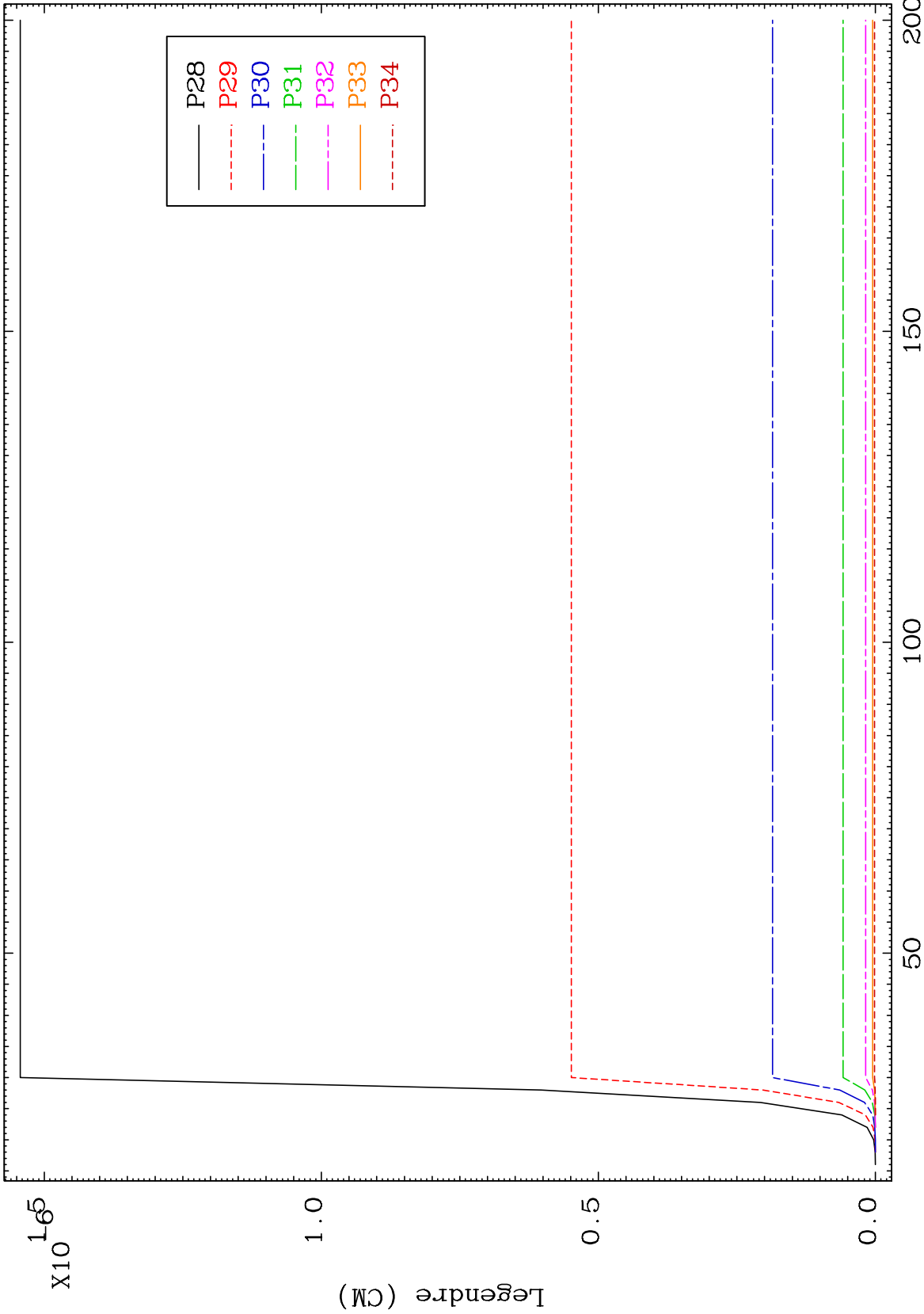
108

54-Xe-130

MAT 5443

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

54-Xe-130



109

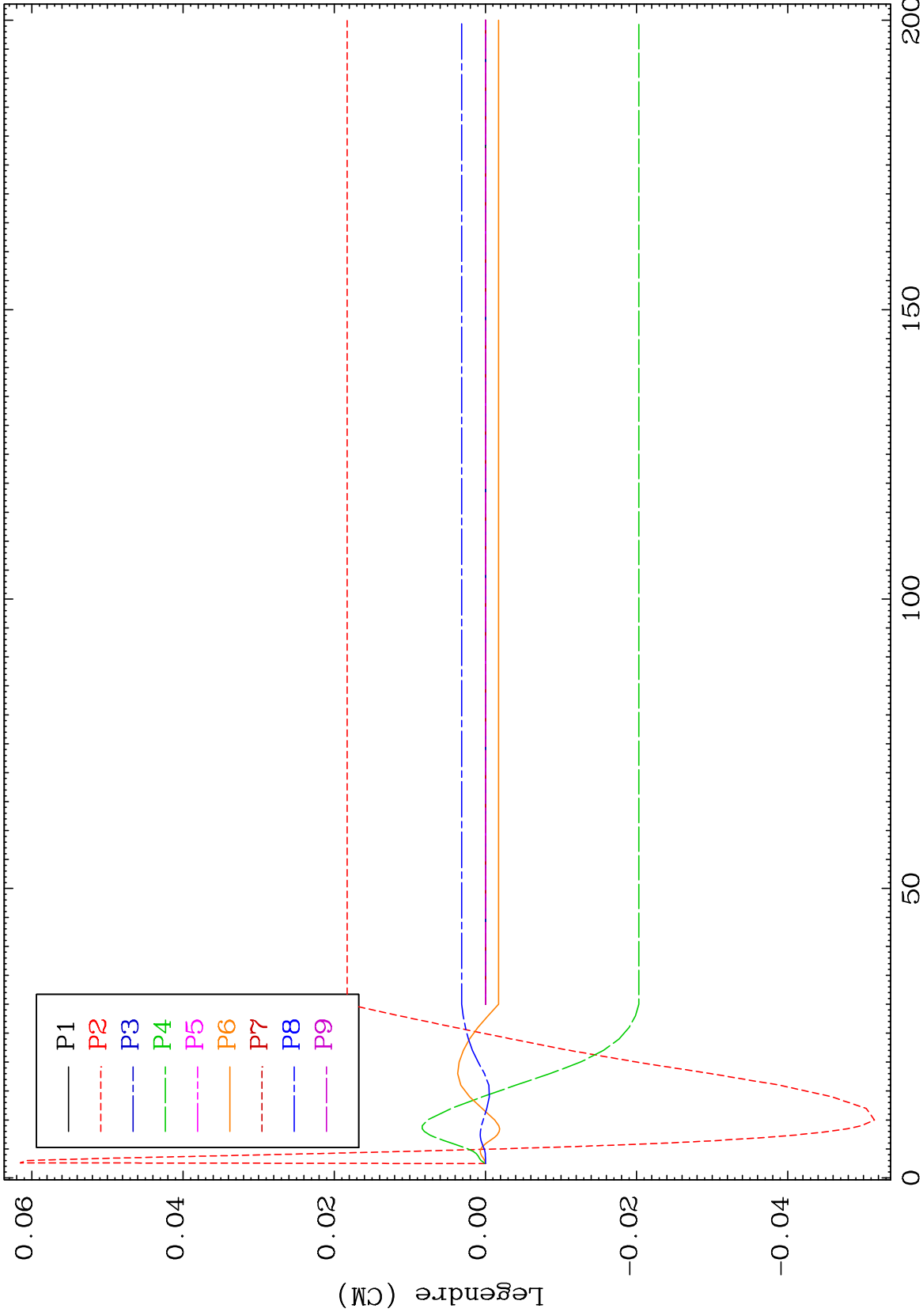
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



54-Xe-130

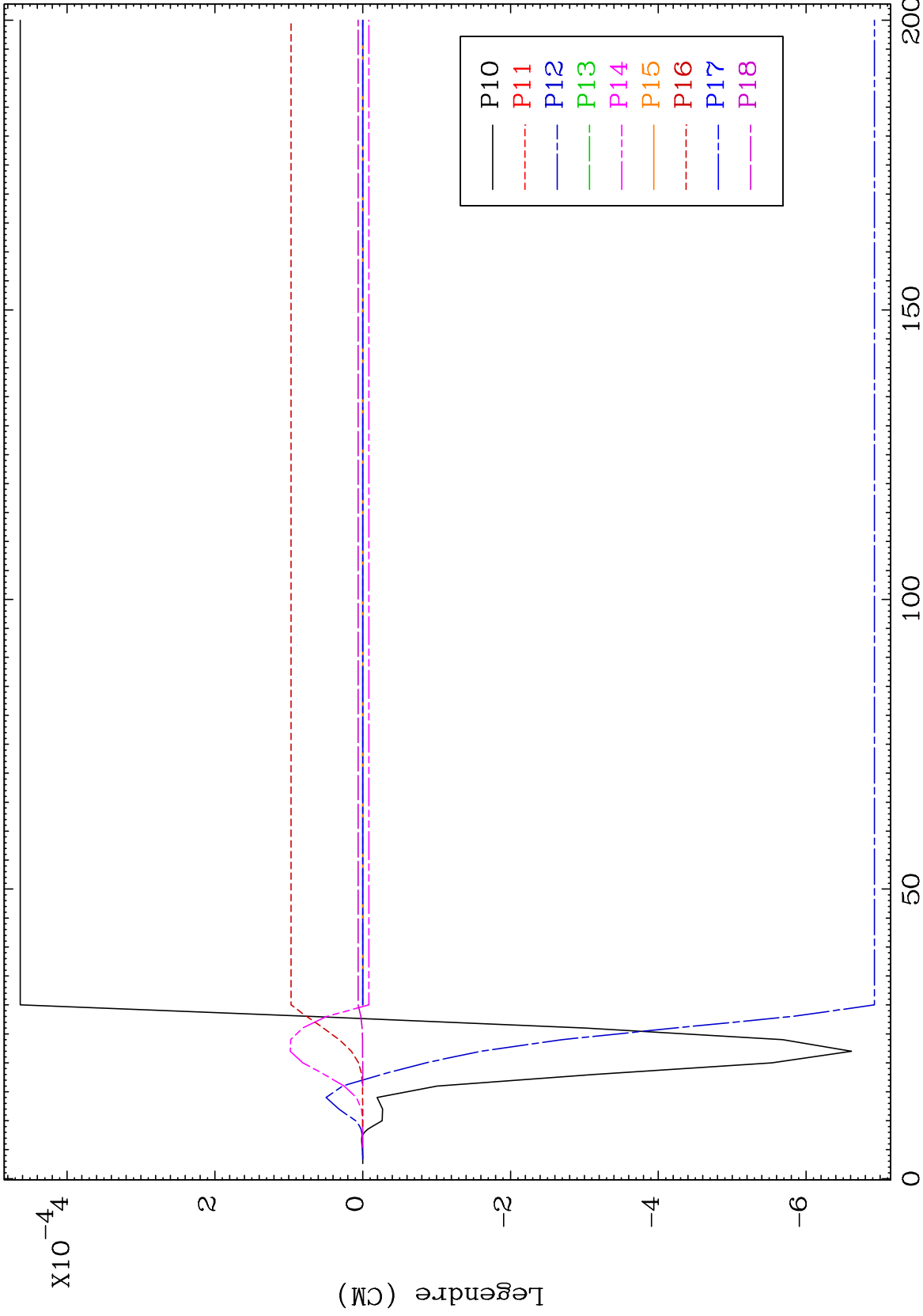
Incident Energy (MeV)

110

MAT 5443

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

54-Xe-130



111

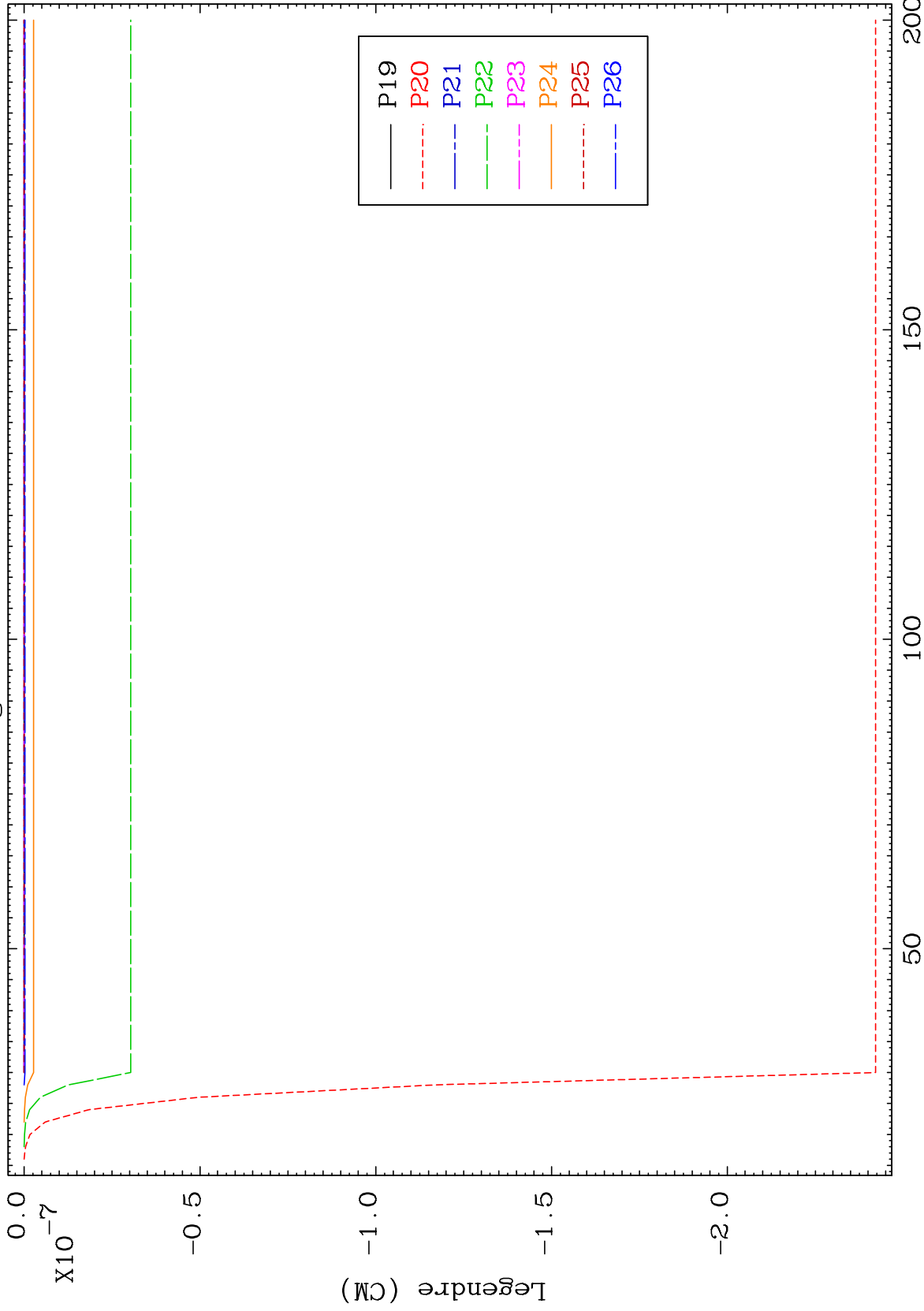
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130

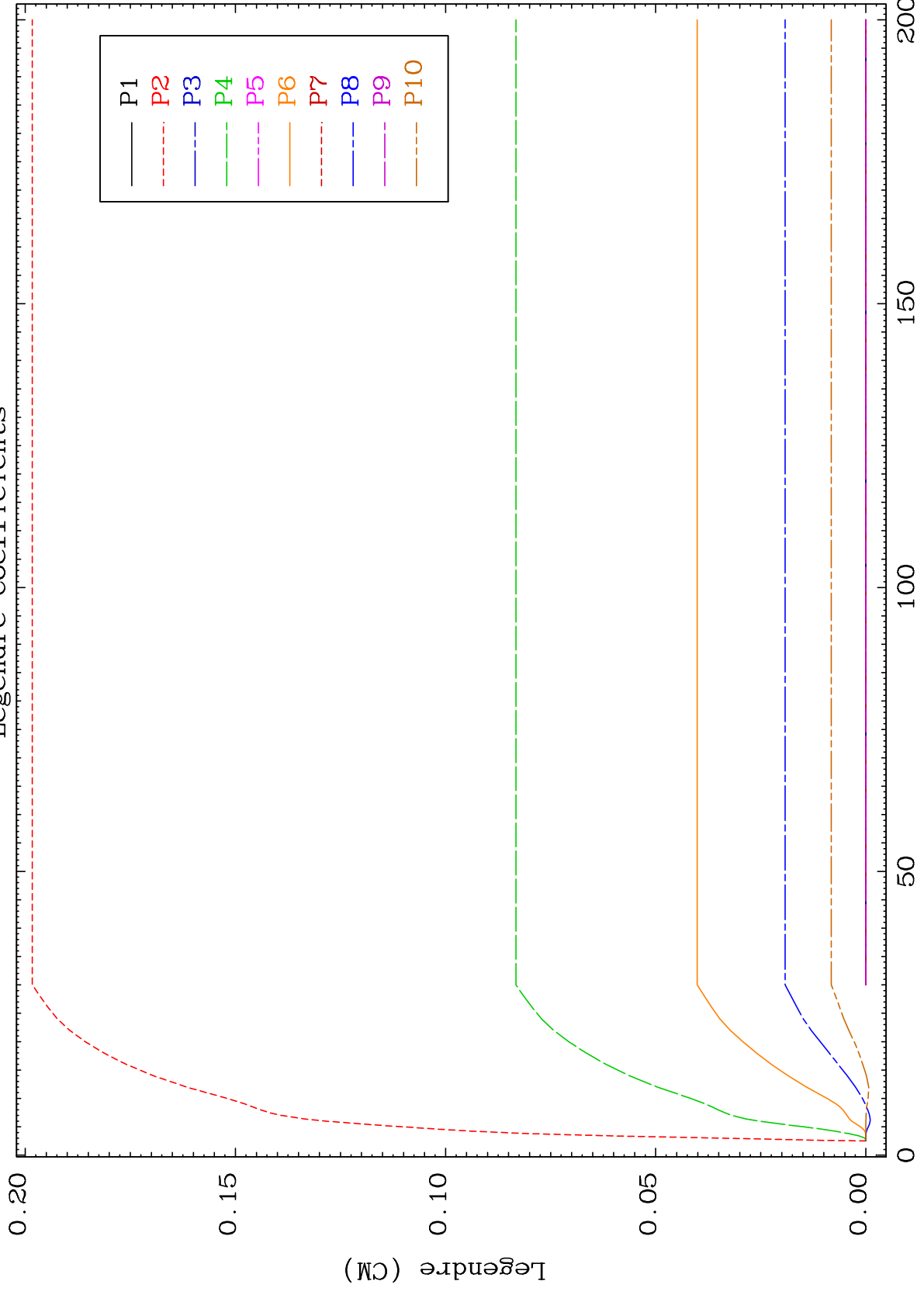


112

Incident Energy (MeV)

54-Xe-130

MAT 5443 MT= 76 (n,n') Level Legendre Coefficients 54-Xe-130

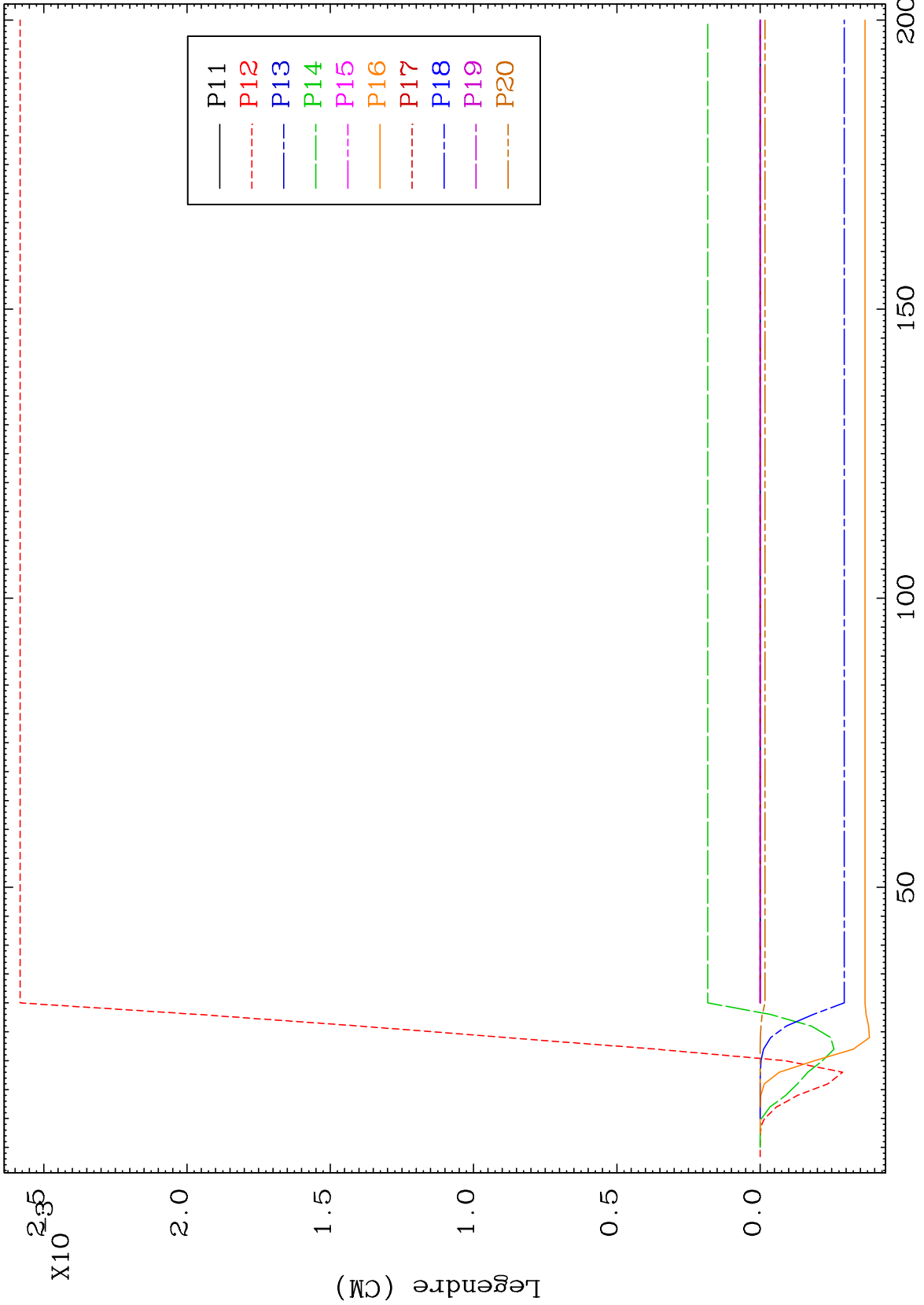


113 54-Xe-130

MAT 5443

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

54-Xe-130

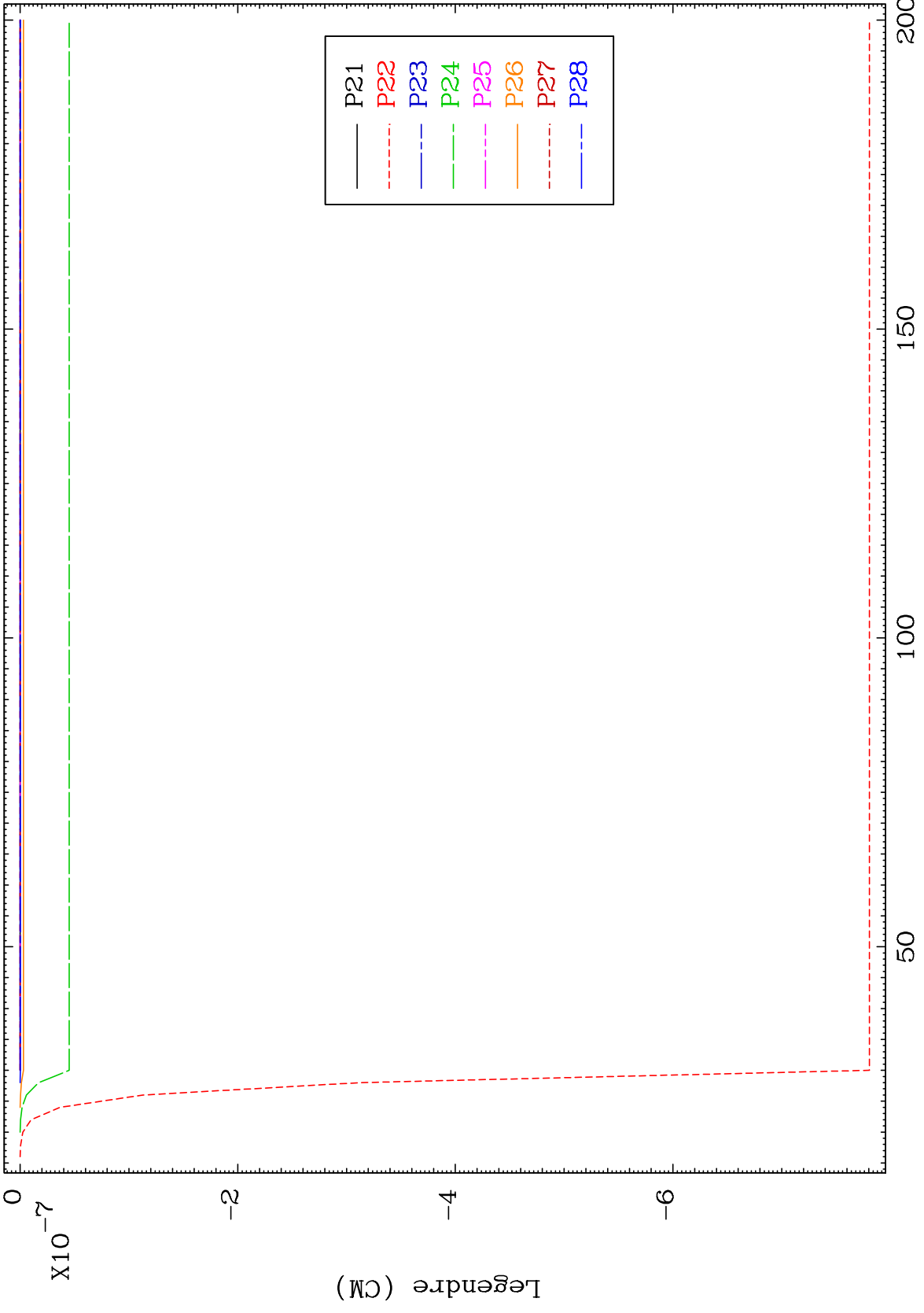


114

Incident Energy (MeV)

54-Xe-130

MAT 5443 MT= 76 (n,n') Level Legendre Coefficients 54-Xe-130

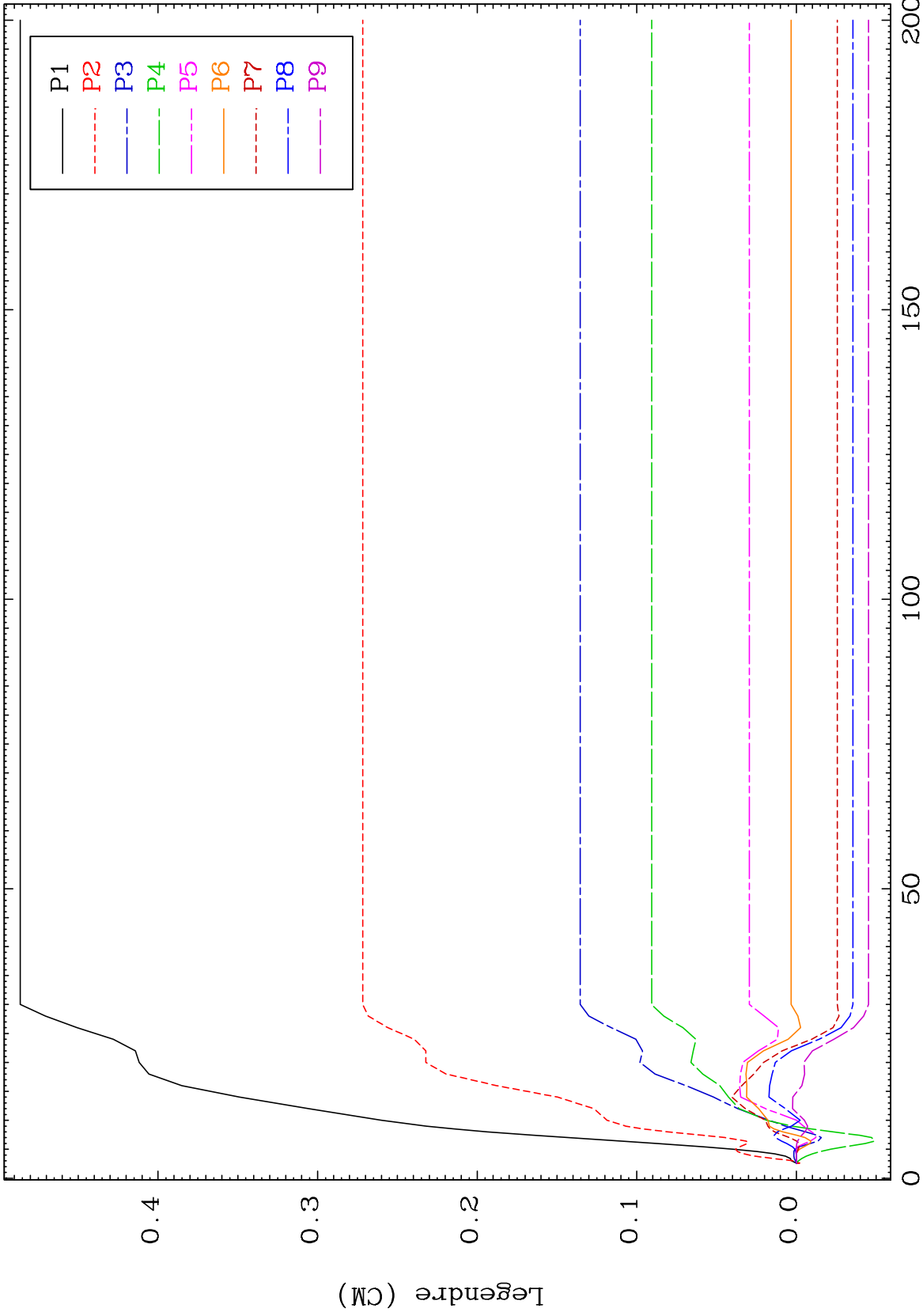


115 54-Xe-130

MAT 5443

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

54-Xe-130



116

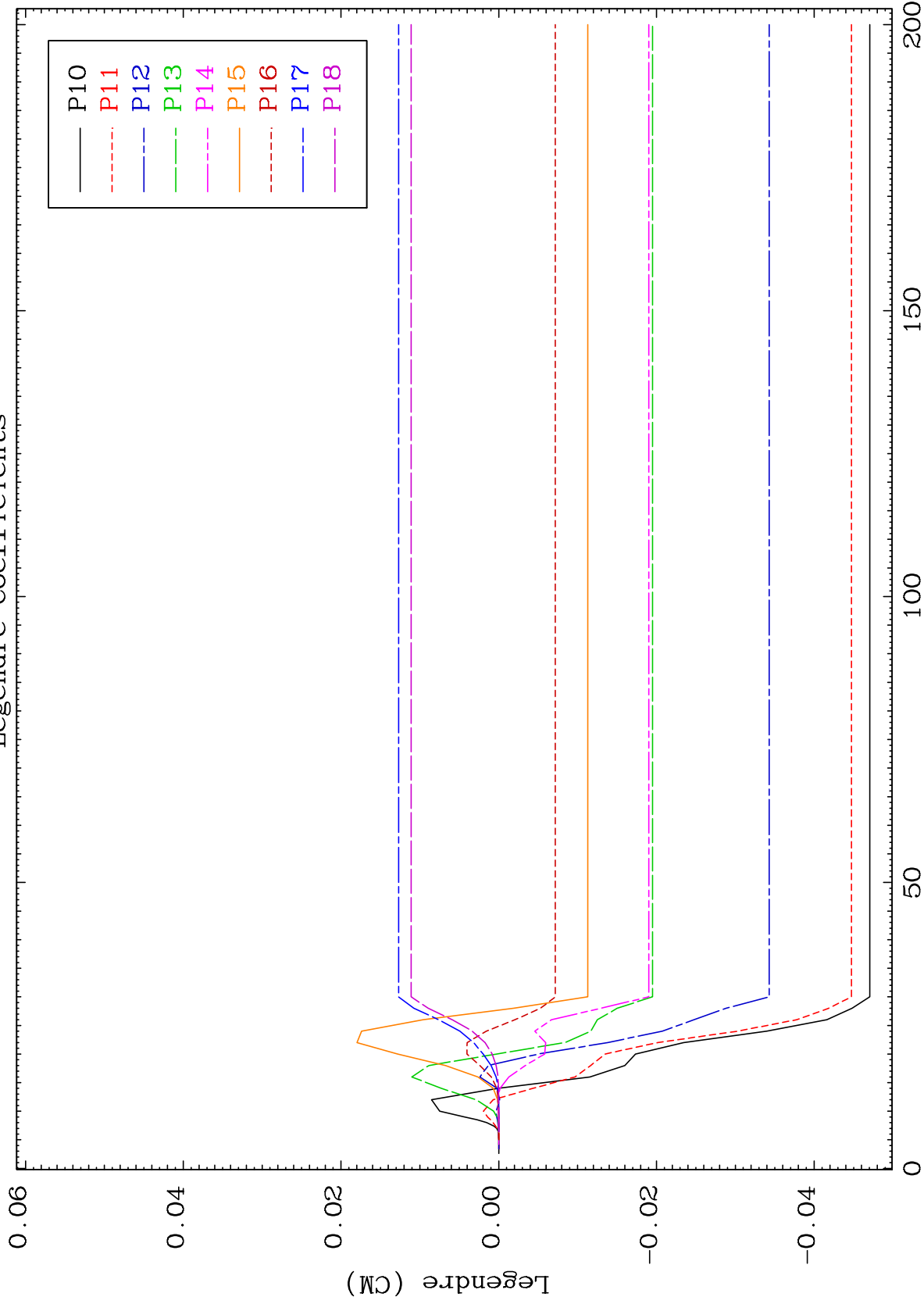
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



117

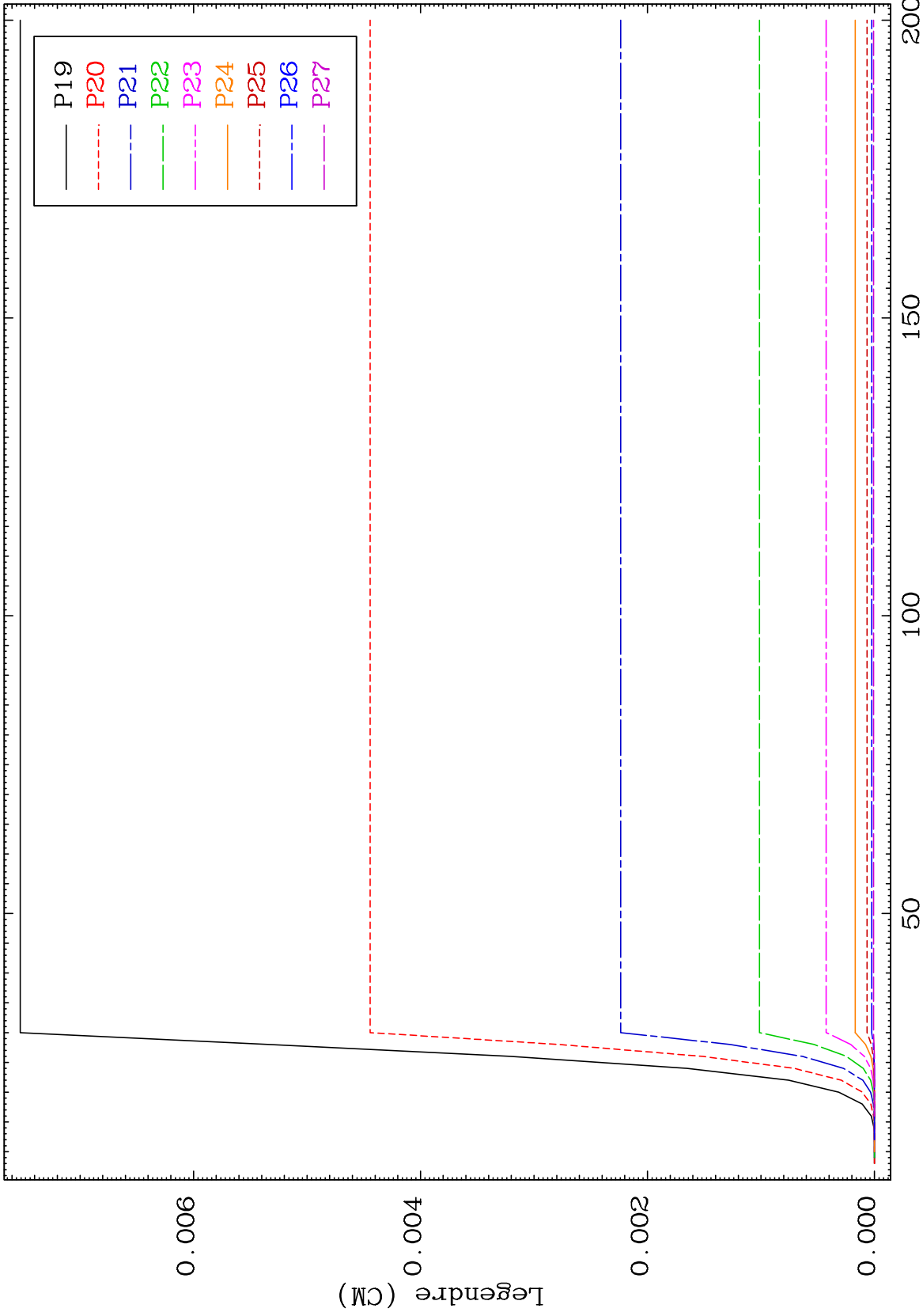
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



118

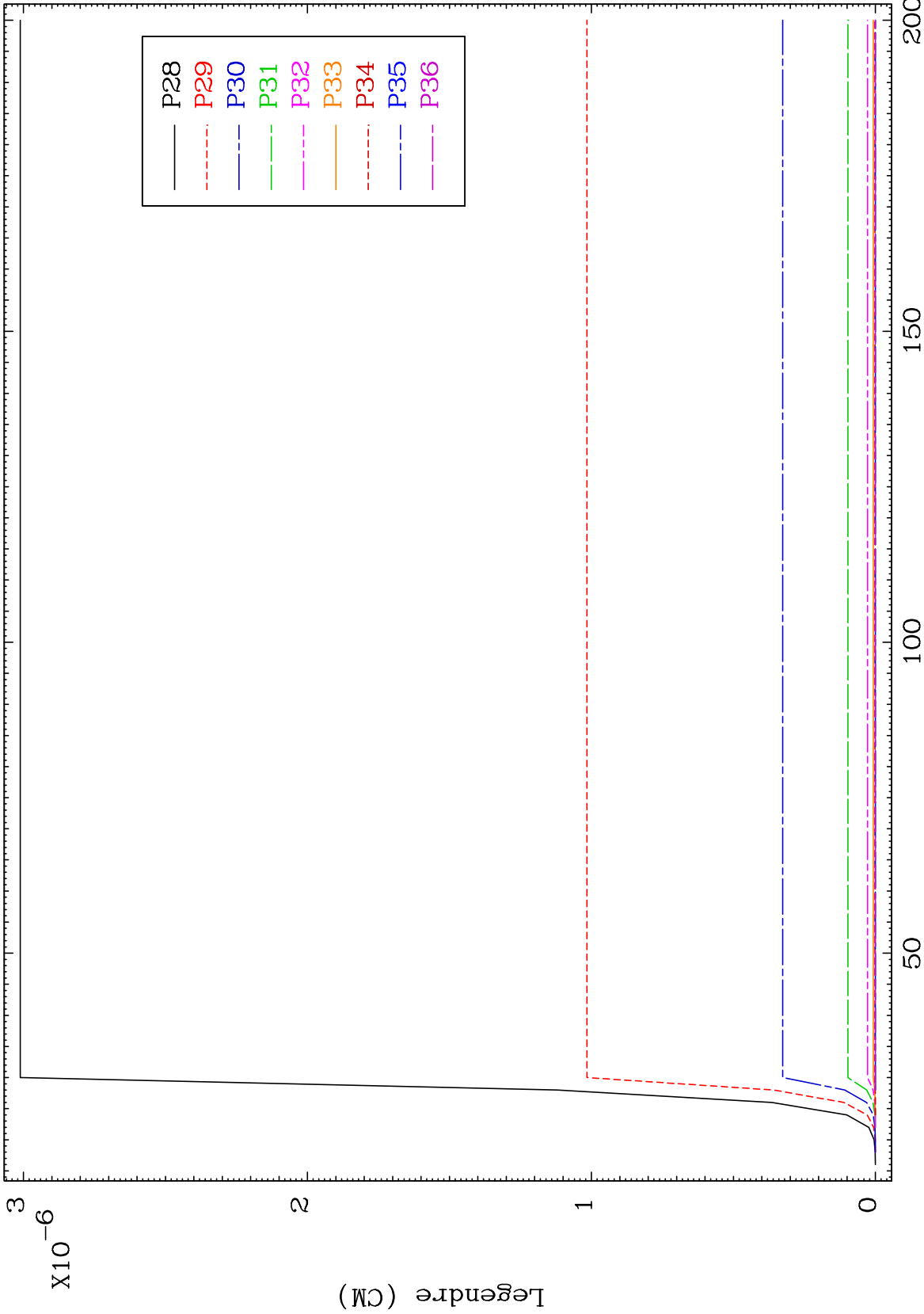
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



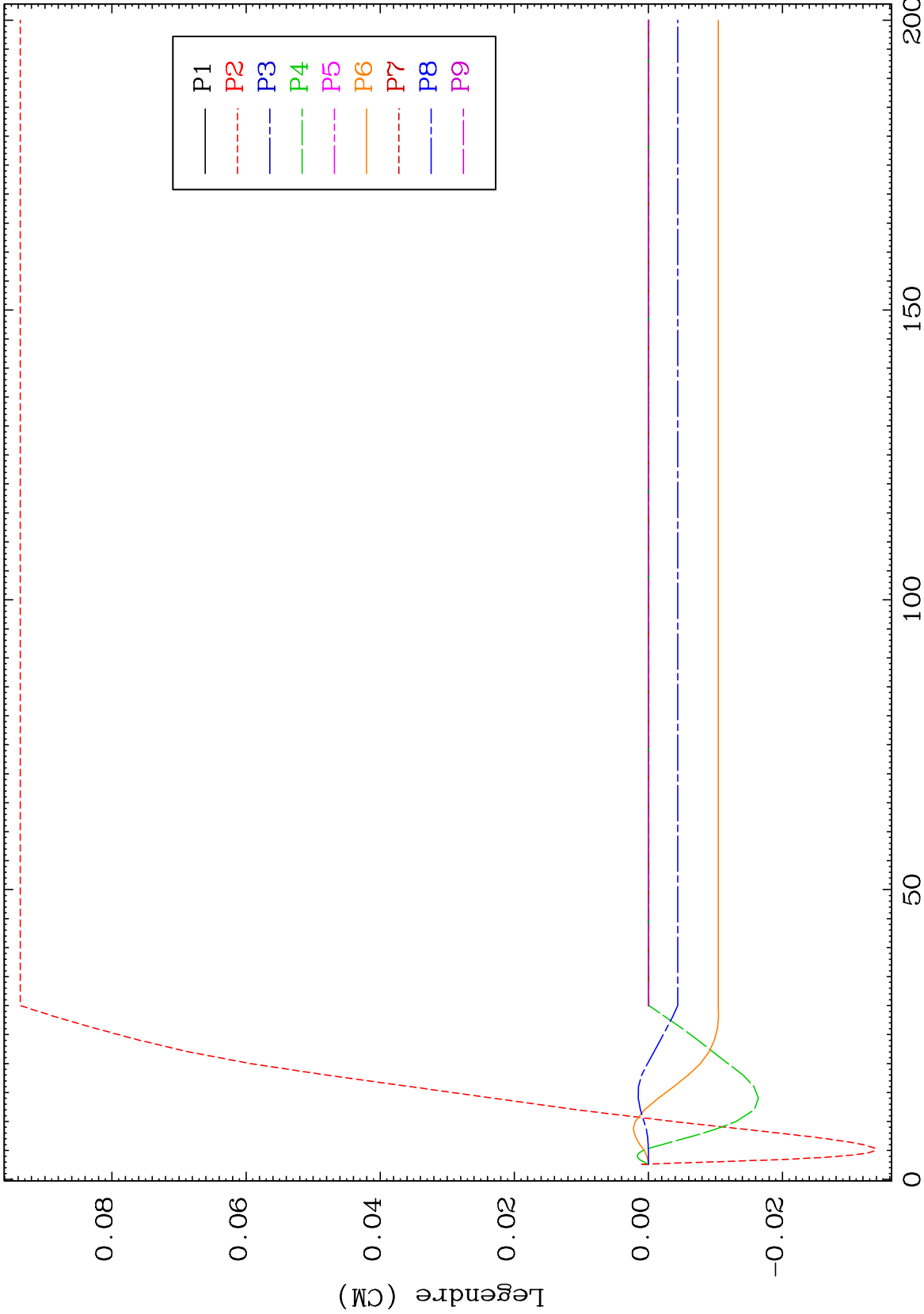
119

54-Xe-130

MAT 5443

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

54-Xe-130



54-Xe-130

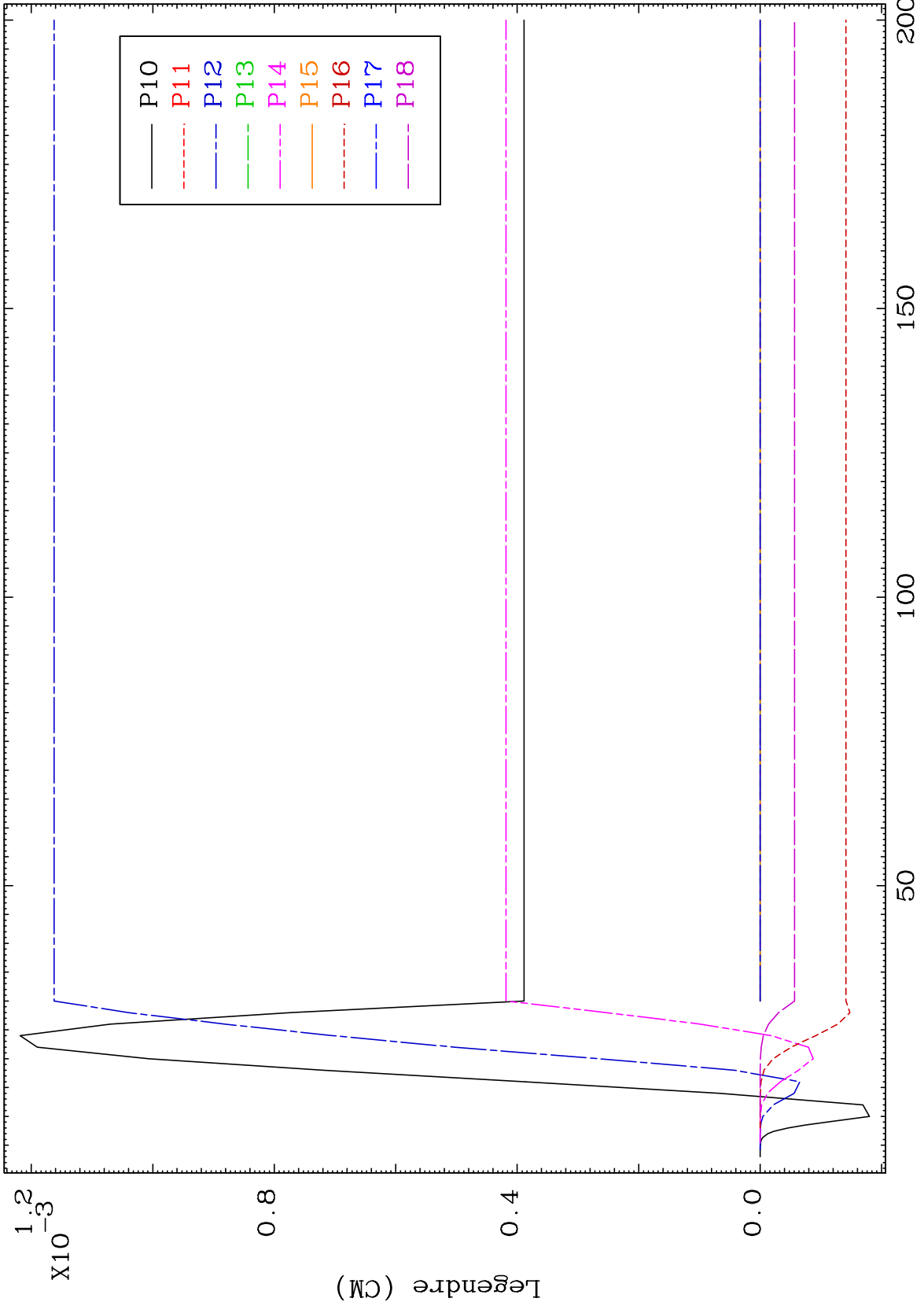
Incident Energy (MeV)

Legendre (CM)

MAT 5443

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

54-Xe-130

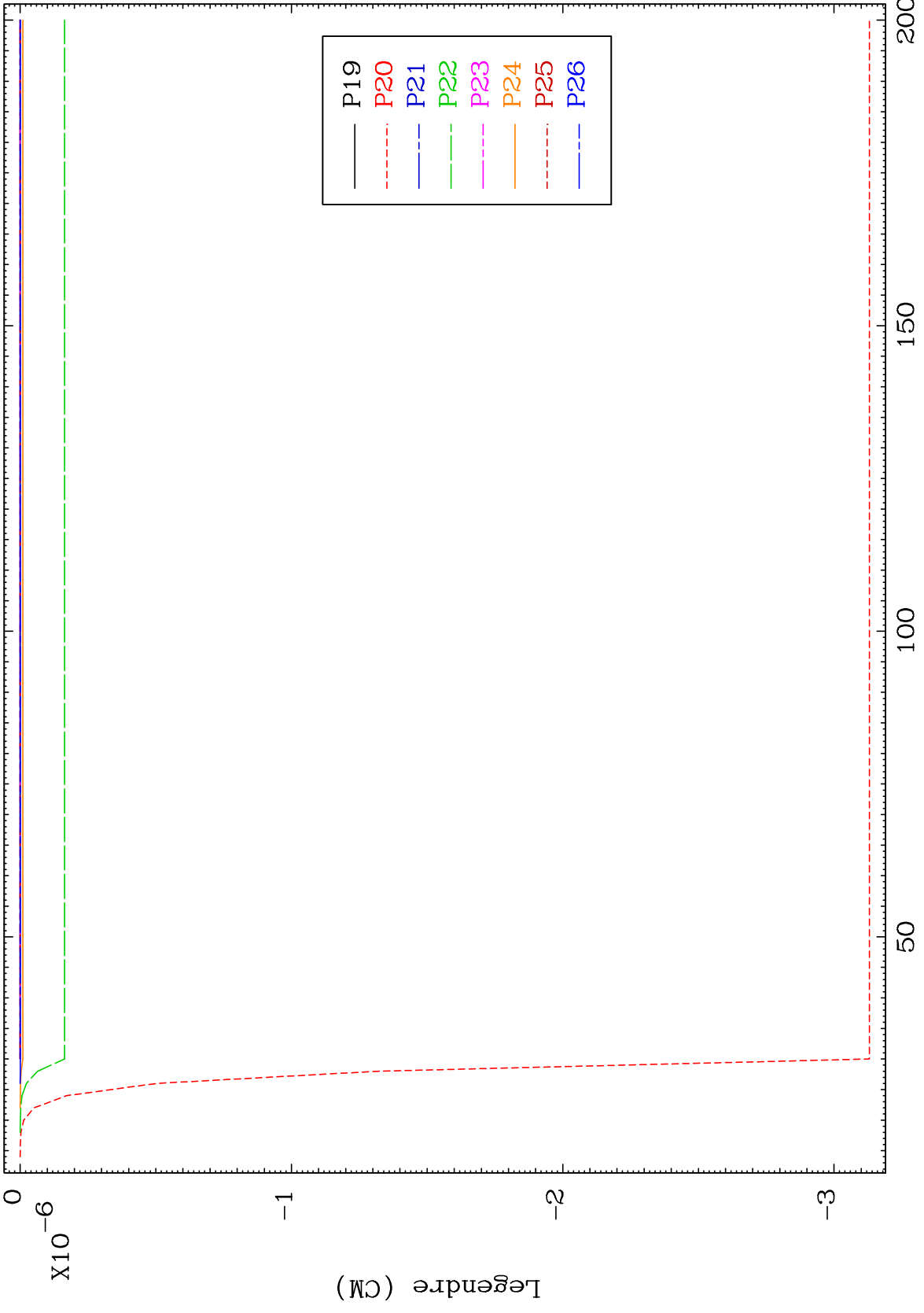


121

Incident Energy (MeV)

54-Xe-130

MAT 5443 MT= 78 (n,n') Level Legendre Coefficients 54-Xe-130

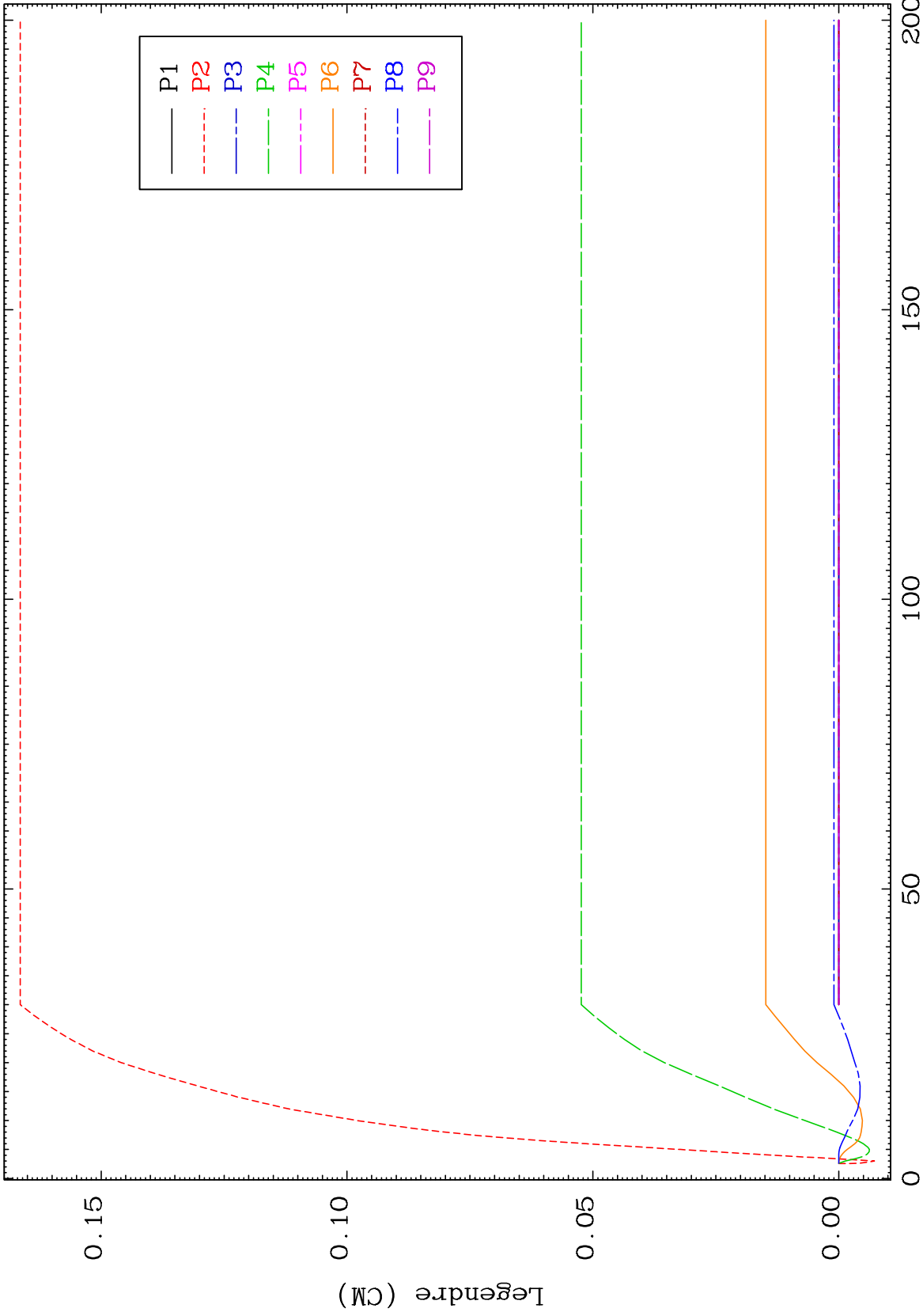


122 54-Xe-130

MAT 5443

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

54-Xe-130



123

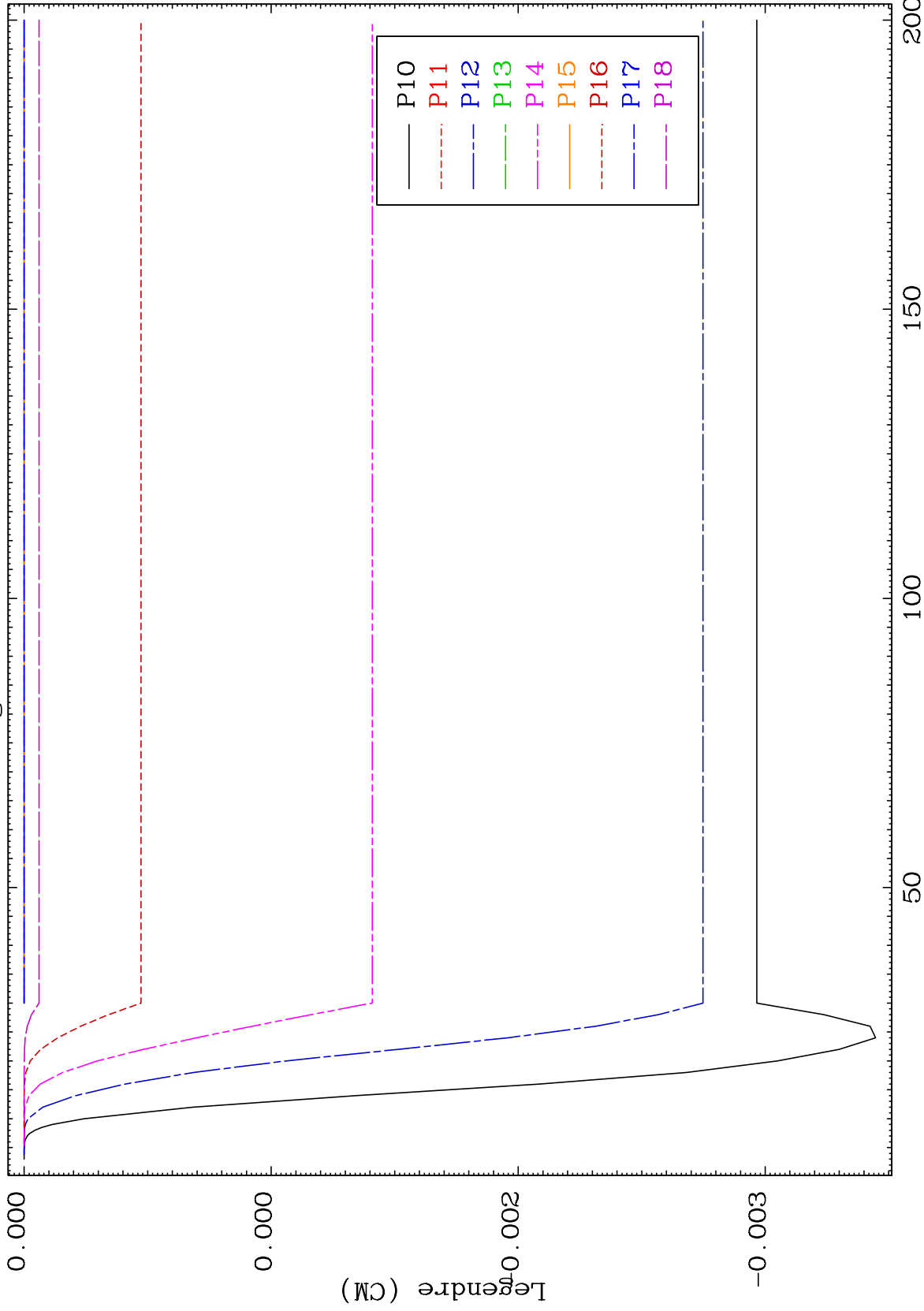
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130

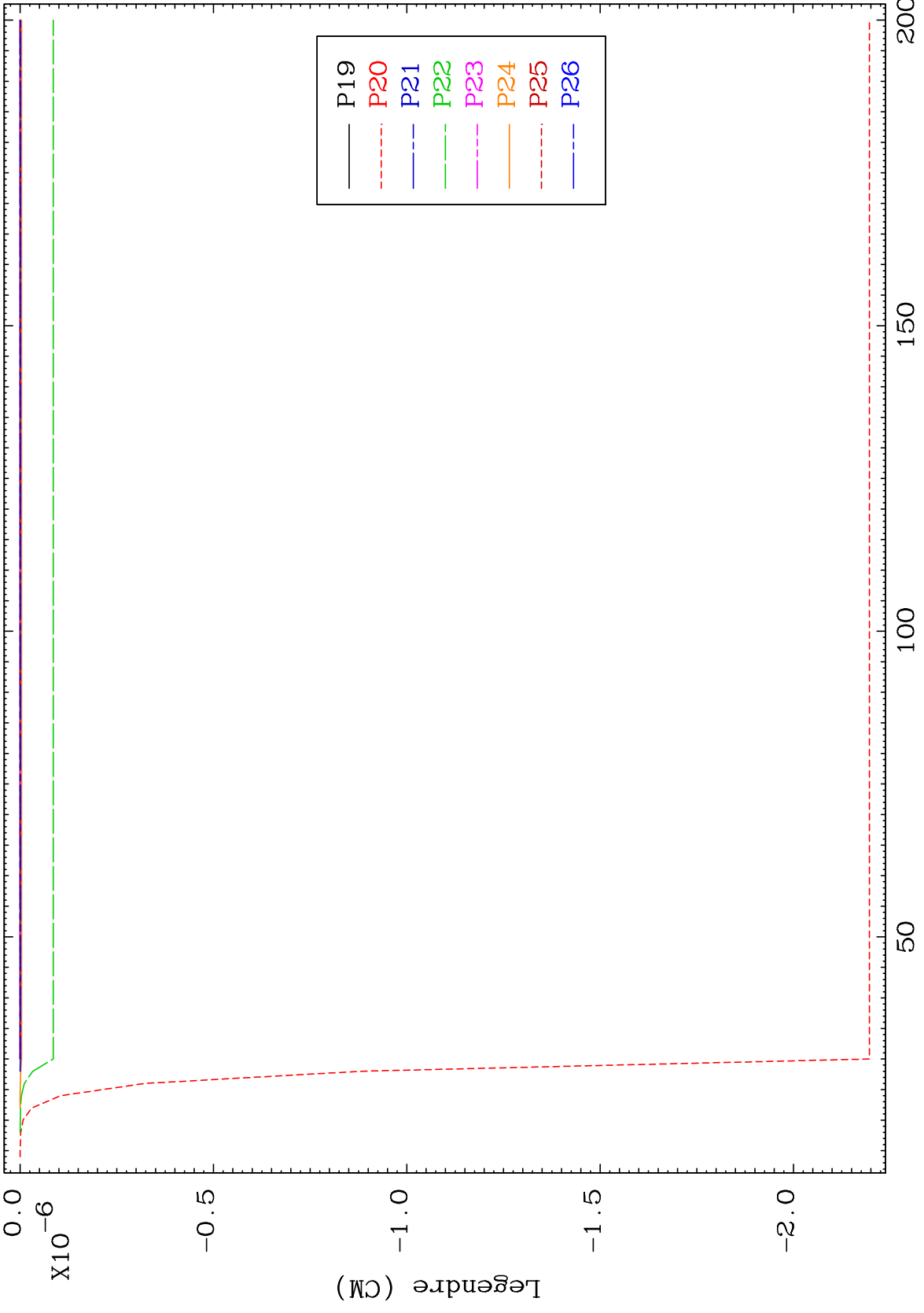


124

Incident Energy (MeV)

54-Xe-130

MAT 5443 MT= 79 (n,n') Level Legendre Coefficients 54-Xe-130

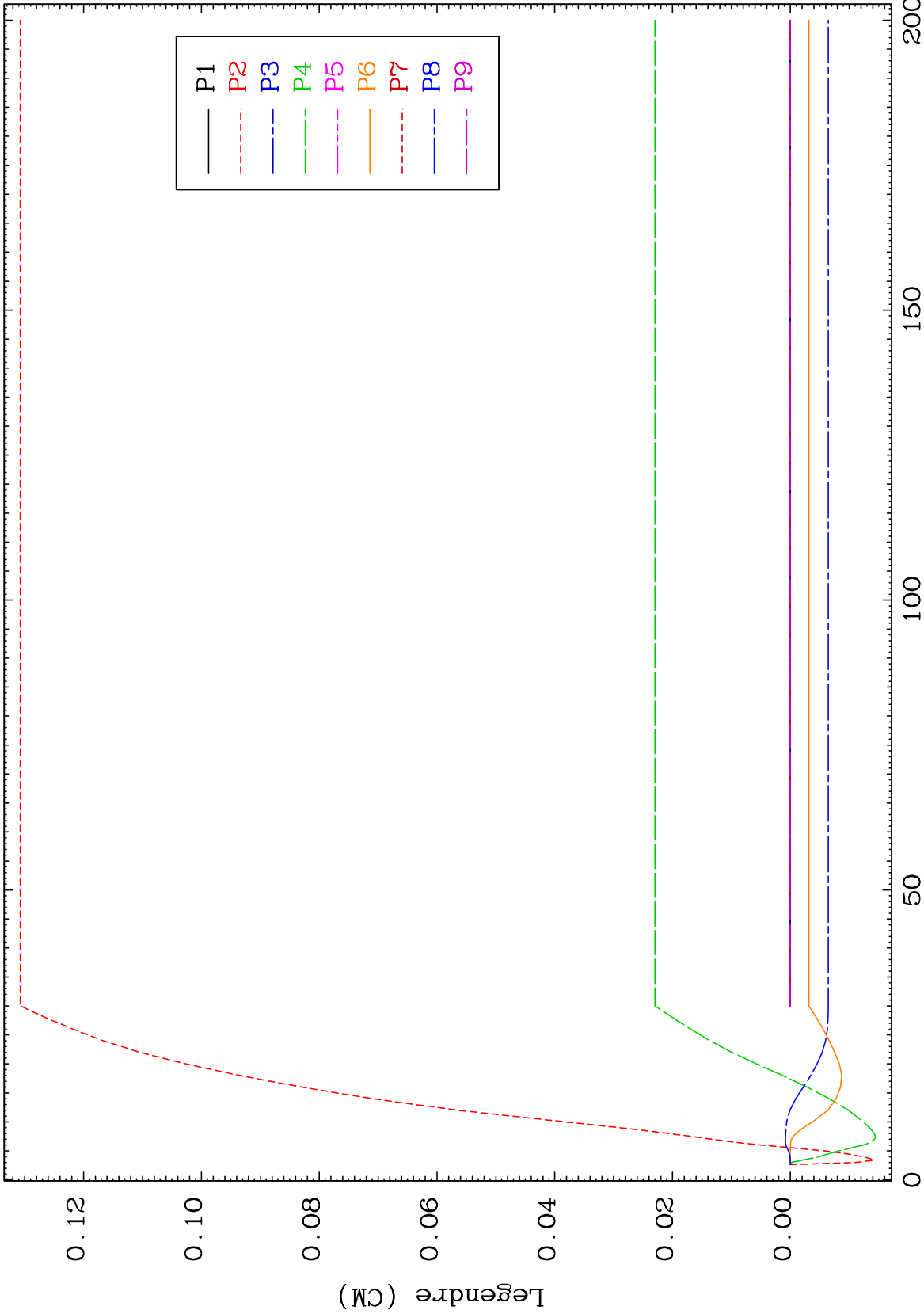


125 Incident Energy (MeV) 54-Xe-130

MAT 5443

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

54-Xe-130



126

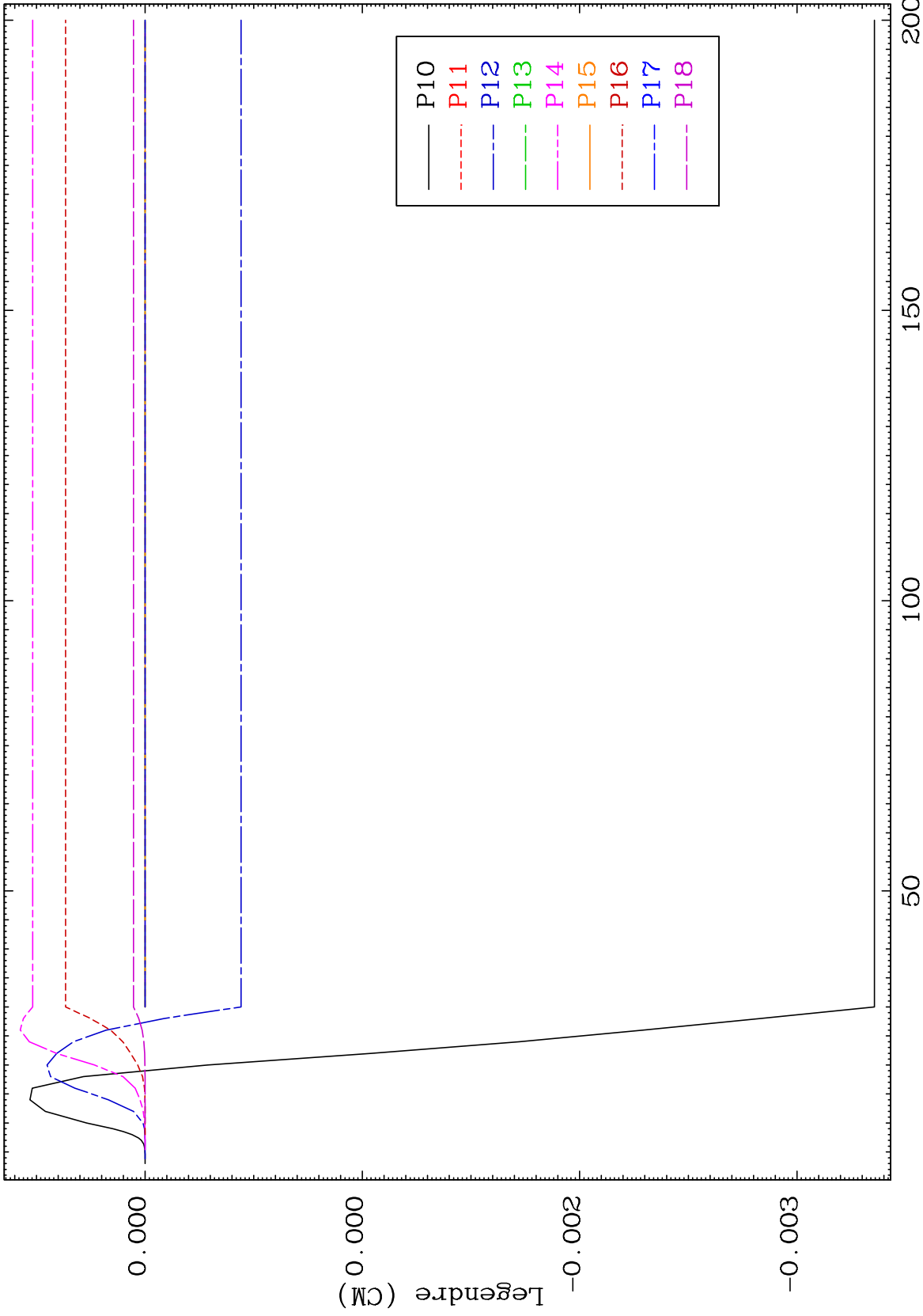
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



127

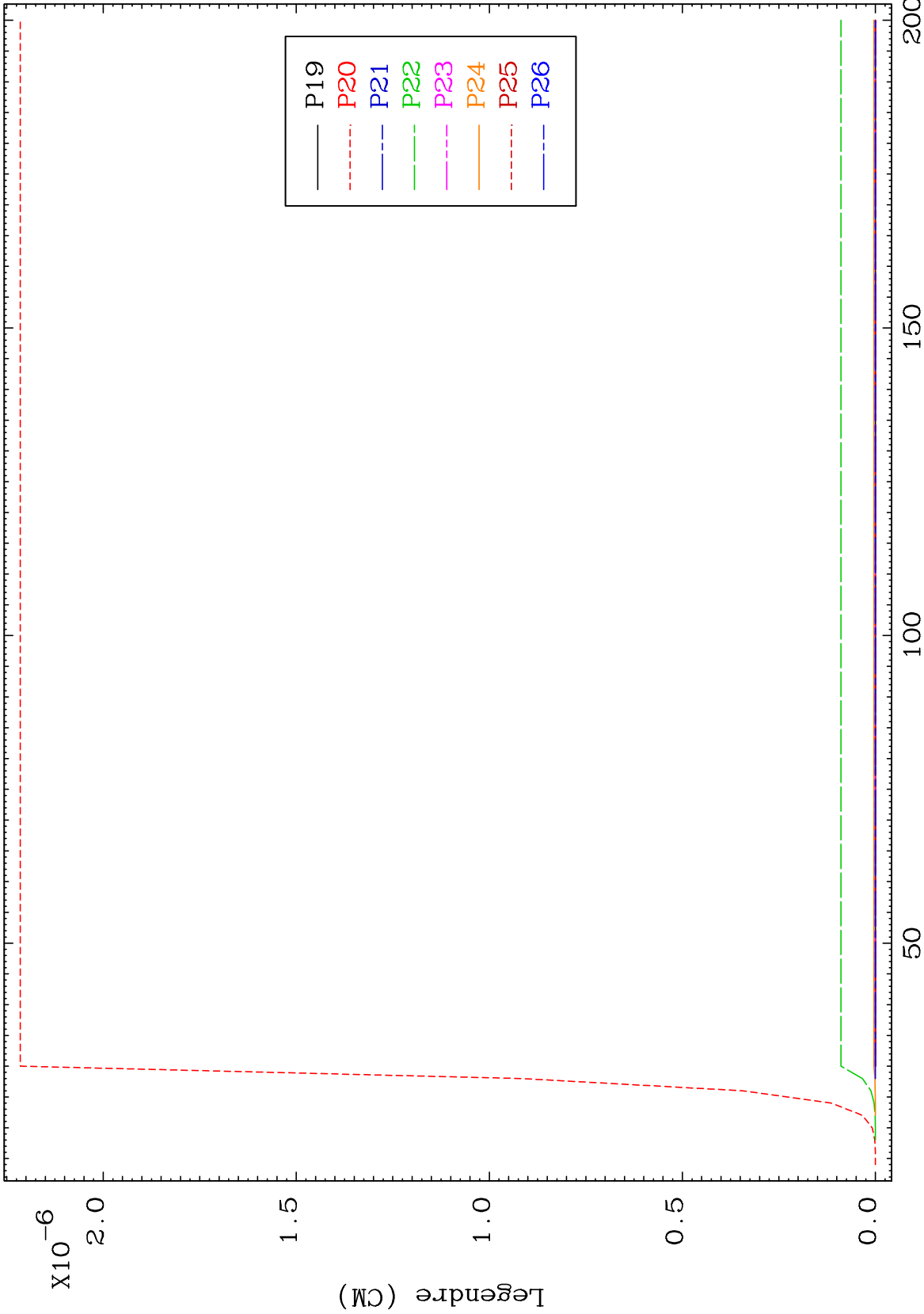
Incident Energy (MeV)

54-Xe-130

MAT 5443

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

54-Xe-130



128

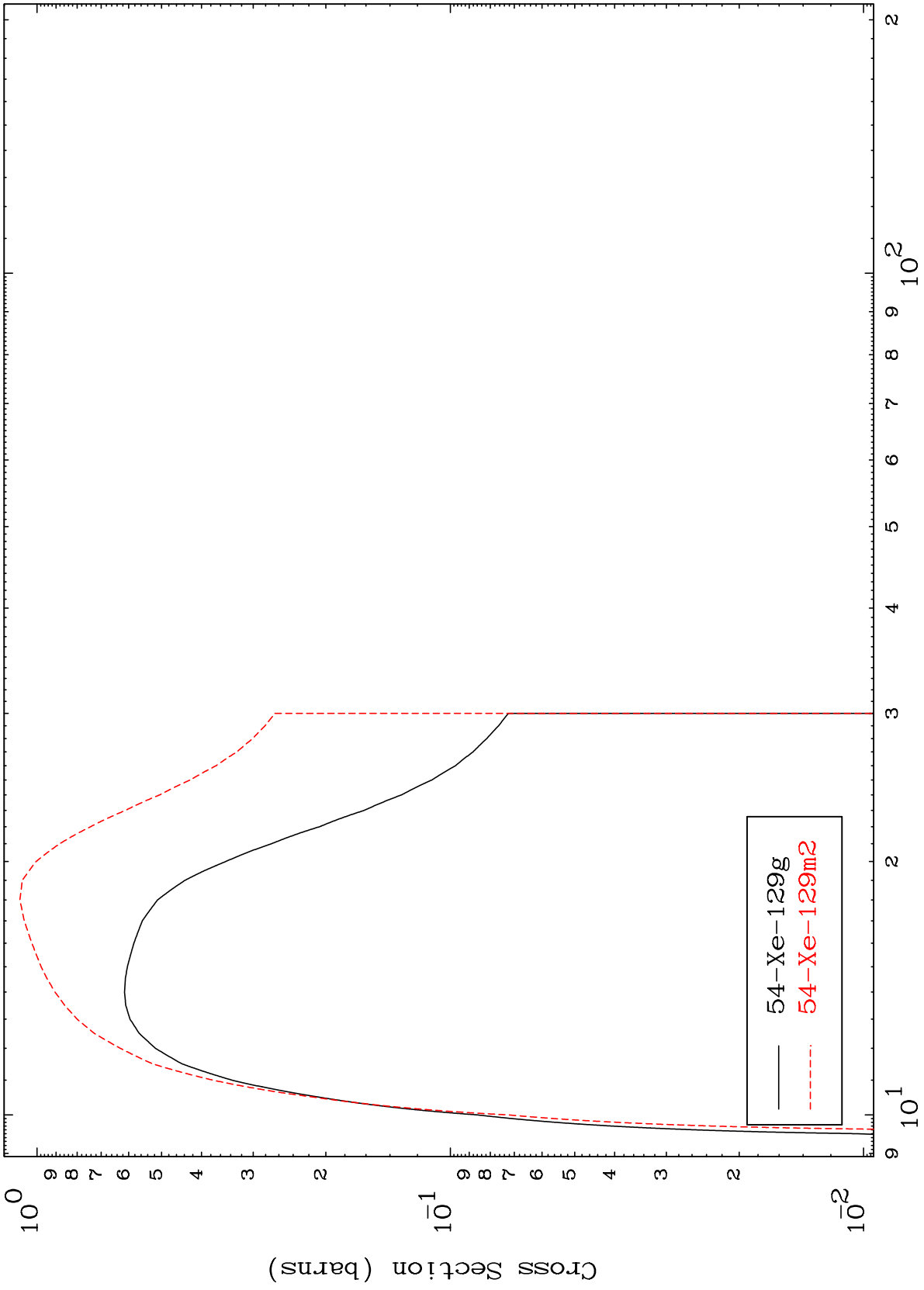
Incident Energy (MeV)

54-Xe-130

MAT 5443

54-Xe-130

(n,2n)  
Radionuclide Production Cross Section



129

Incident Energy (MeV)

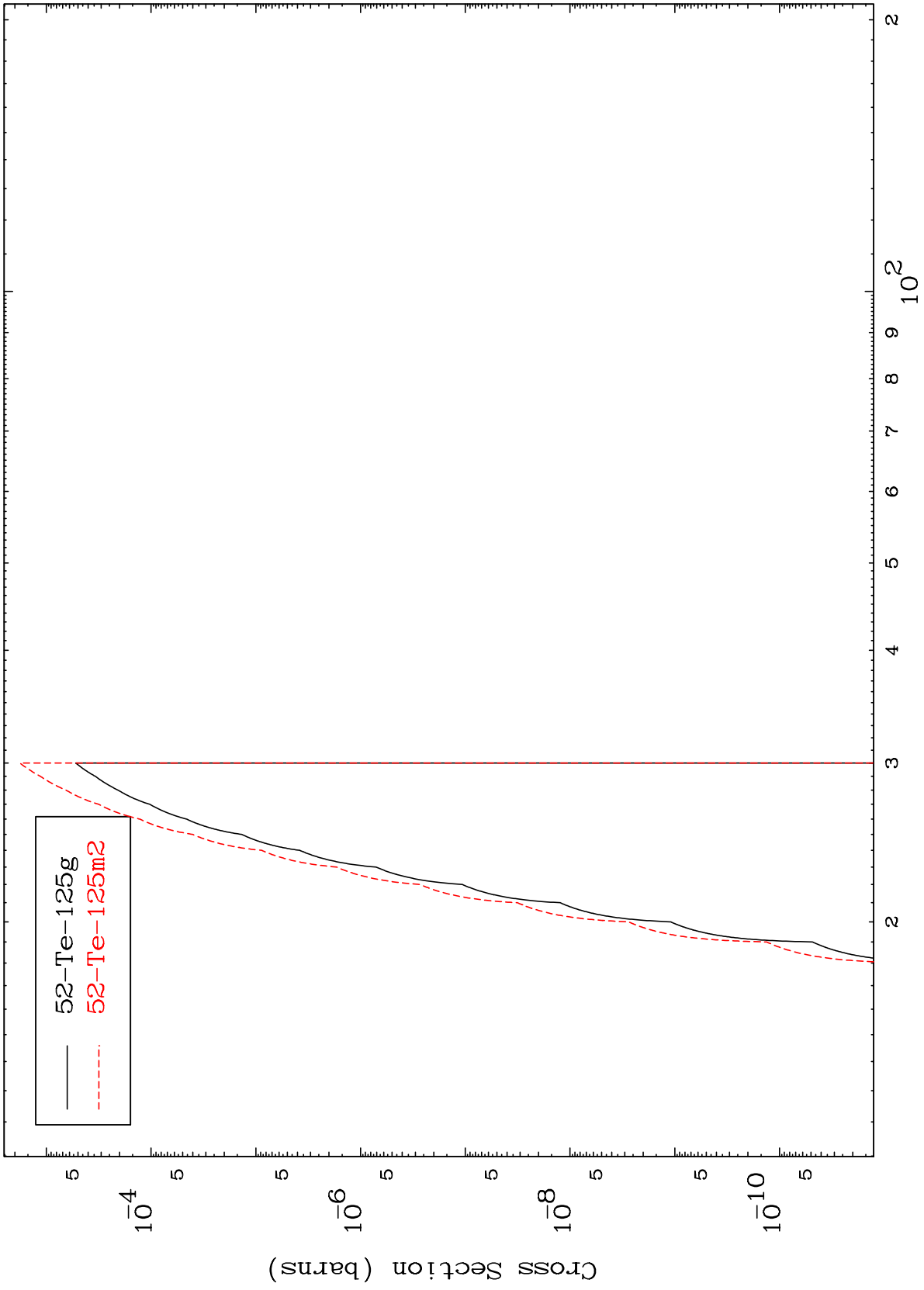
54-Xe-130

MAT 5443

(n,2n)  $\alpha$

54-Xe-130

Radionuclide Production Cross Section



130

Incident Energy (MeV)

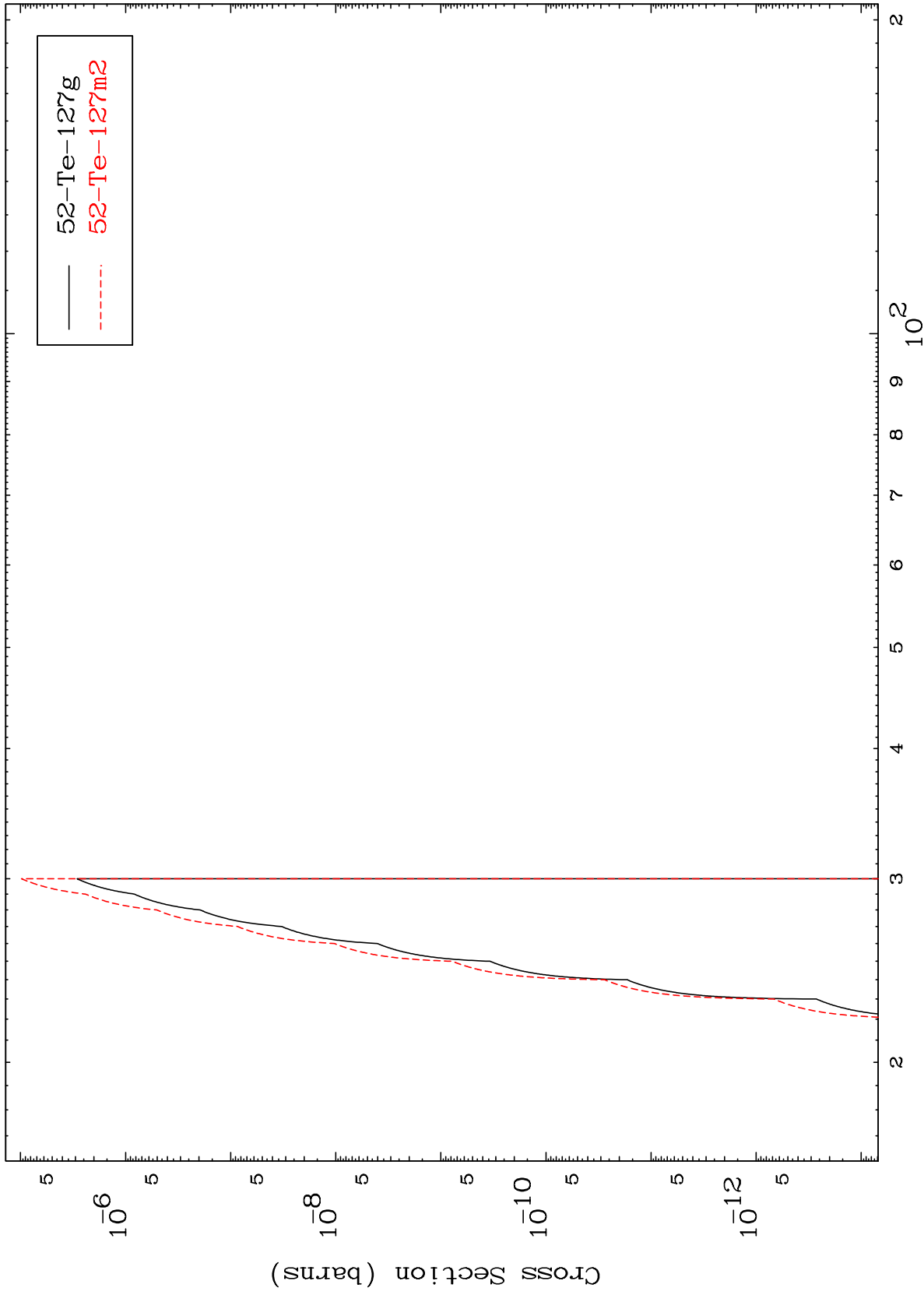
54-Xe-130

MAT 5443

(n, n') He-3

54-Xe-130

Radionuclide Production Cross Section



131

Incident Energy (MeV)

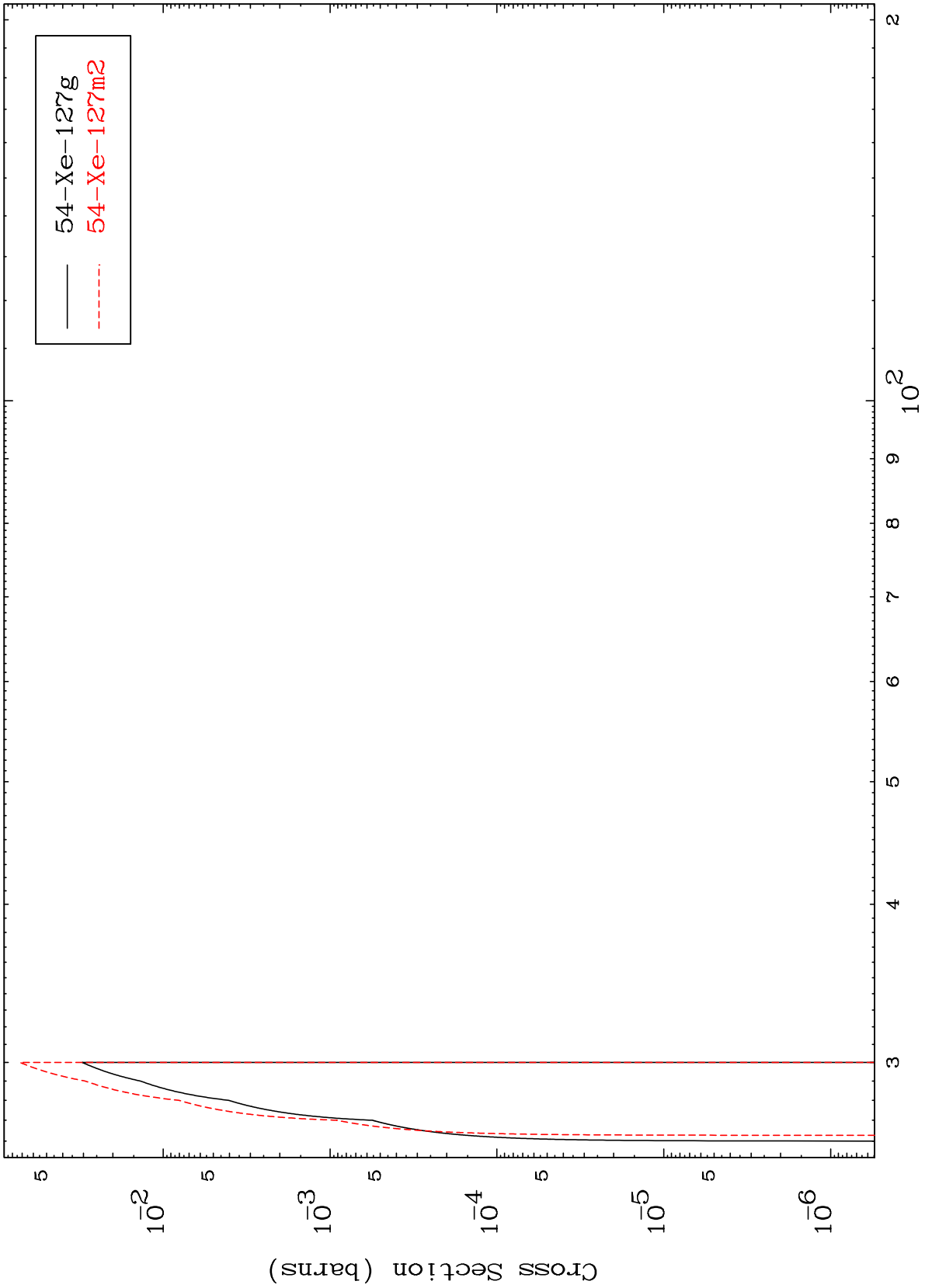
54-Xe-130

MAT 5443

(n,4n)

54-Xe-130

Radionuclide Production Cross Section



54-Xe-127g  
54-Xe-127m2

132

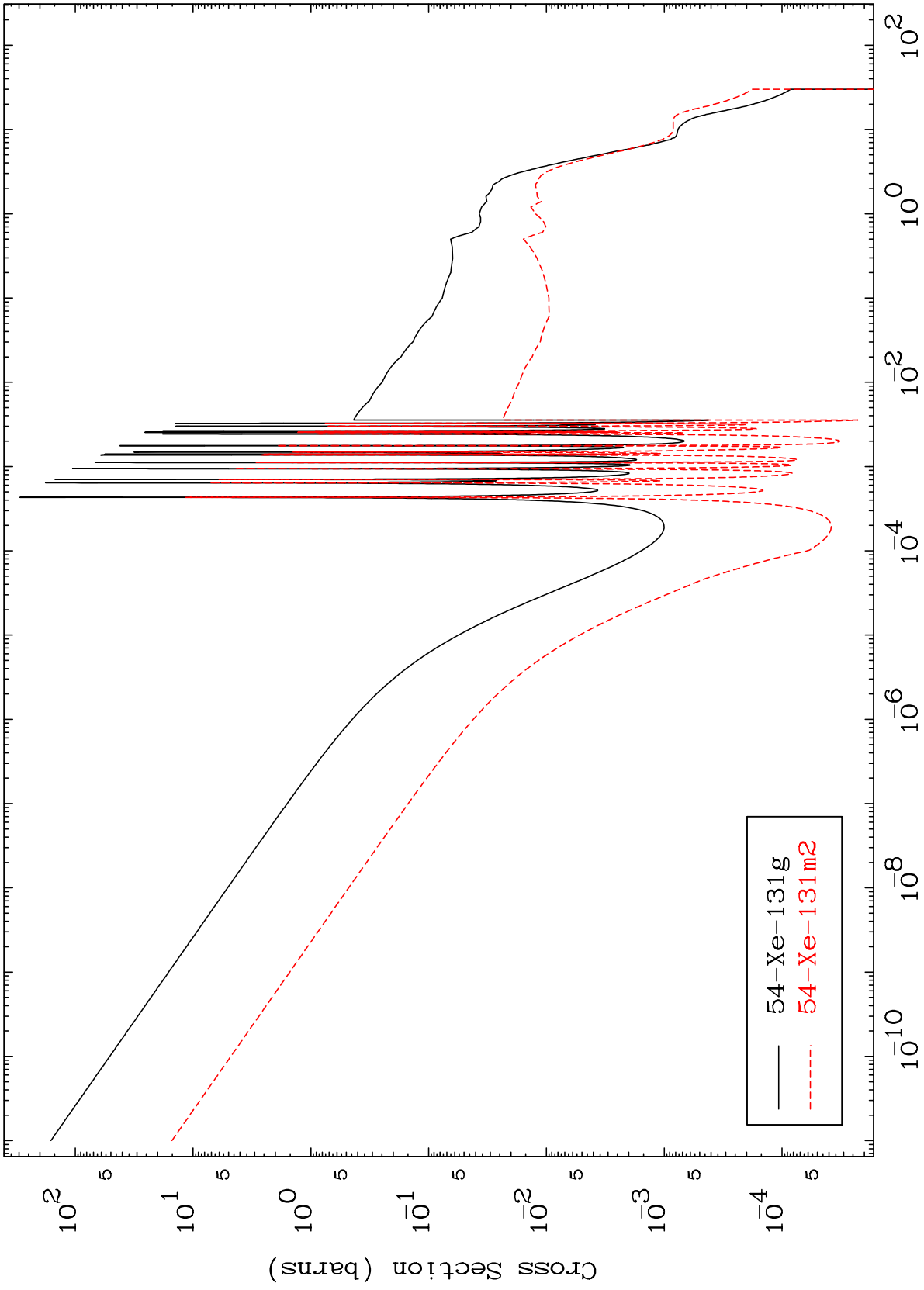
Incident Energy (MeV)

54-Xe-130

MAT 5443

54-Xe-130

(n,γ)  
Radionuclide Production Cross Section



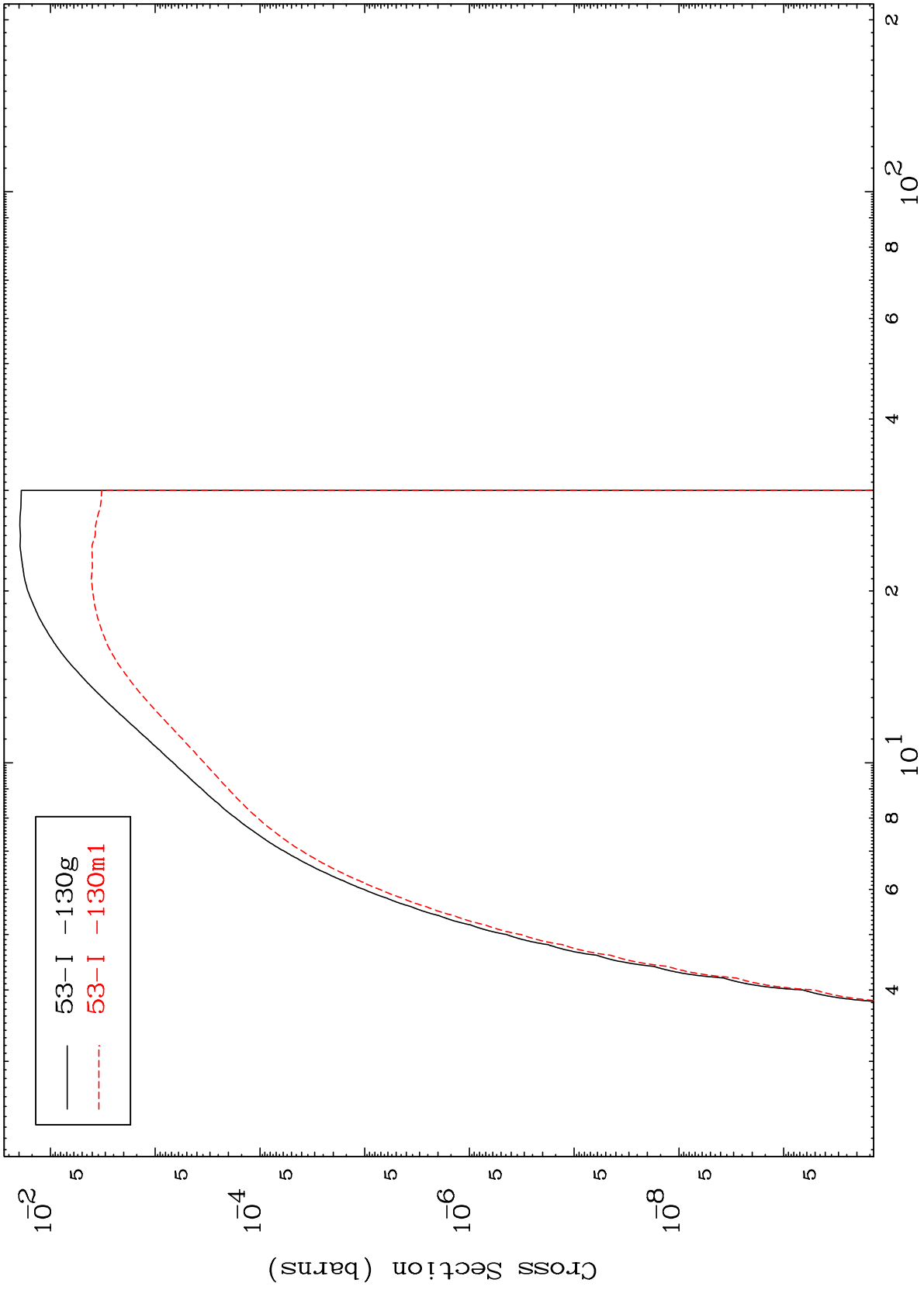
133

54-Xe-130

MAT 5443

54-Xe-130

(n,p)  
Radionuclide Production Cross Section



134

54-Xe-130

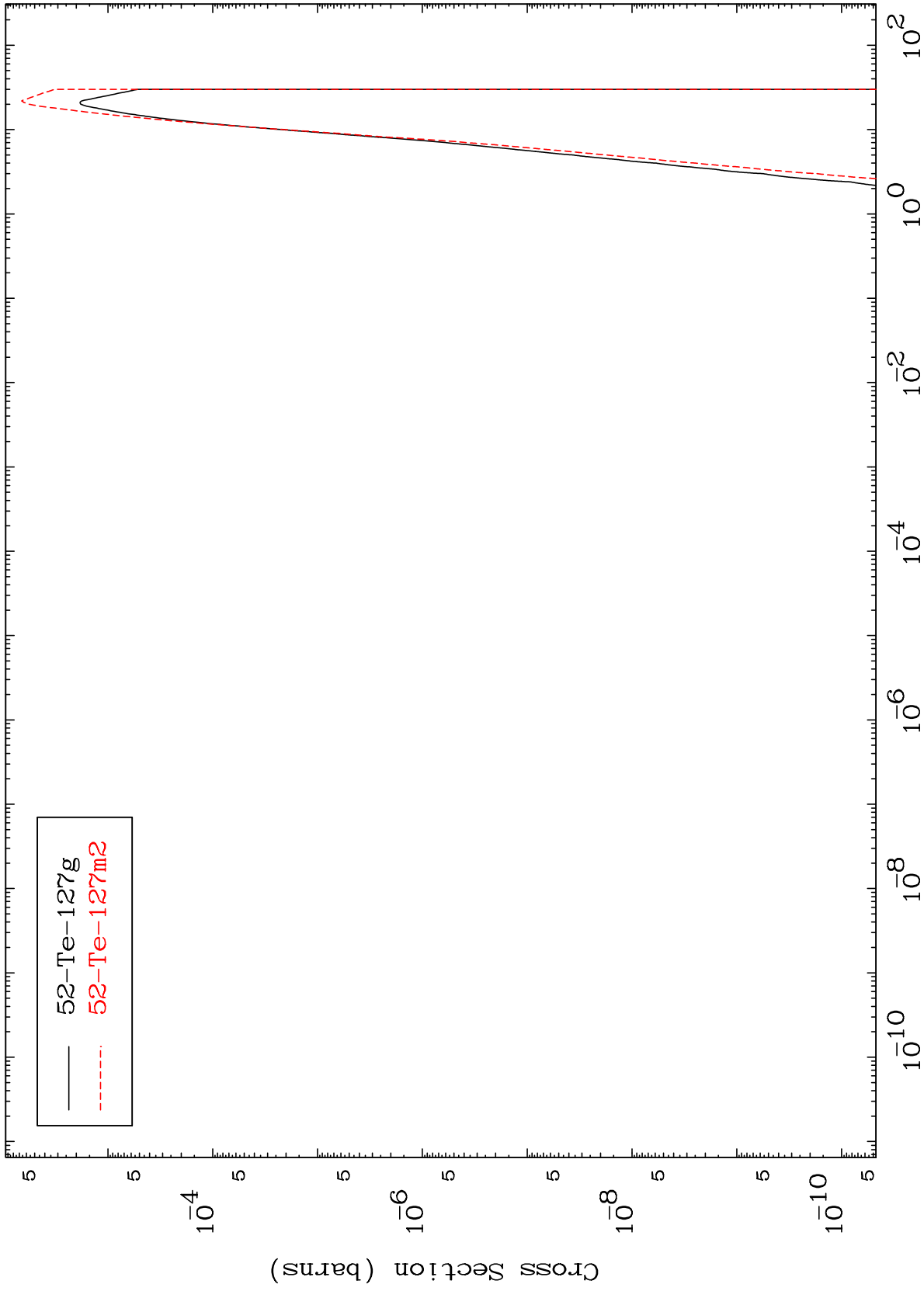
Incident Energy (MeV)

MAT 5443

(n,  $\alpha$ )

54-Xe-130

Radionuclide Production Cross Section



135

Incident Energy (MeV)

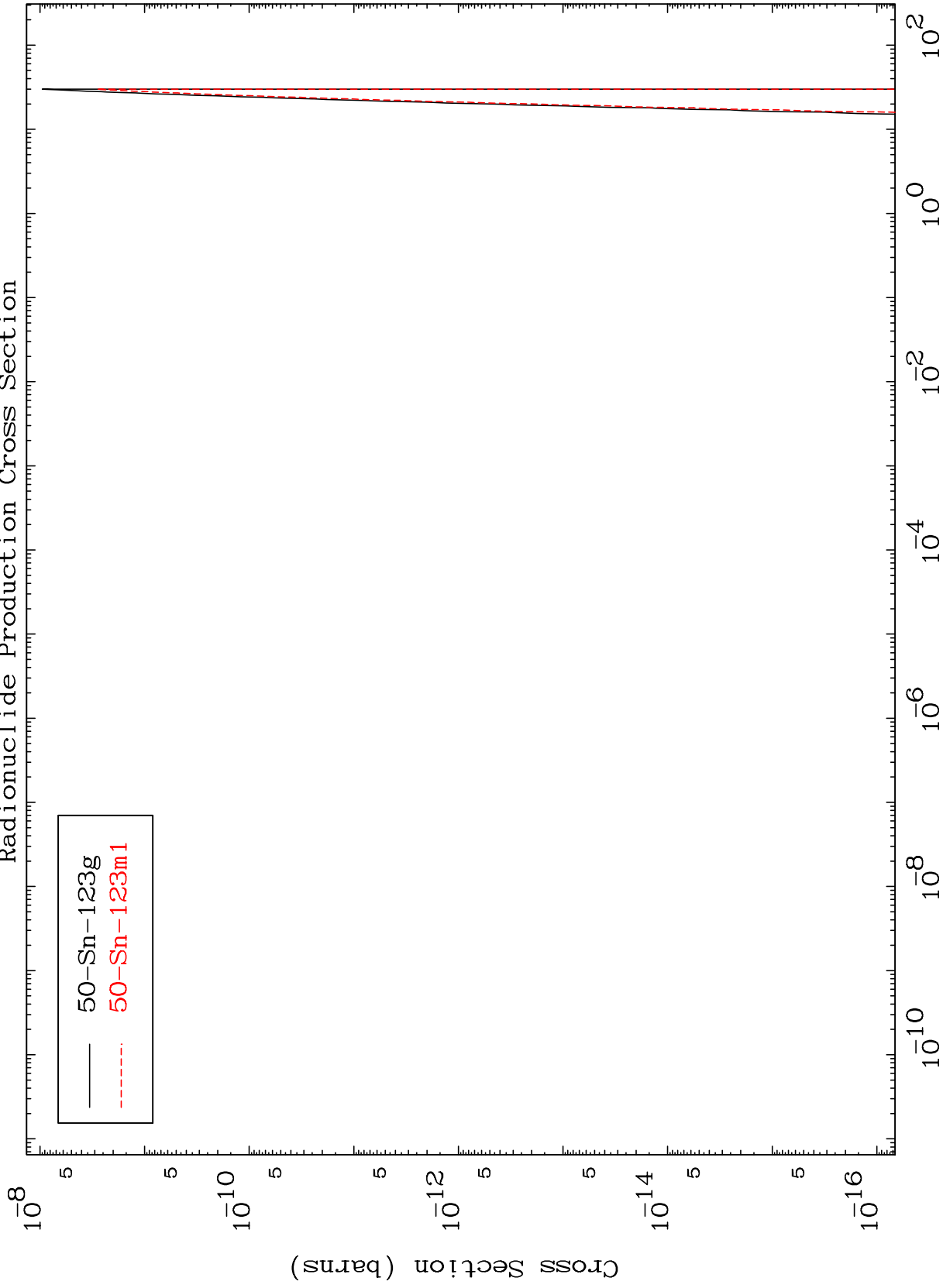
54-Xe-130

MAT 5443

(n,2α)

54-Xe-130

Radionuclide Production Cross Section



136

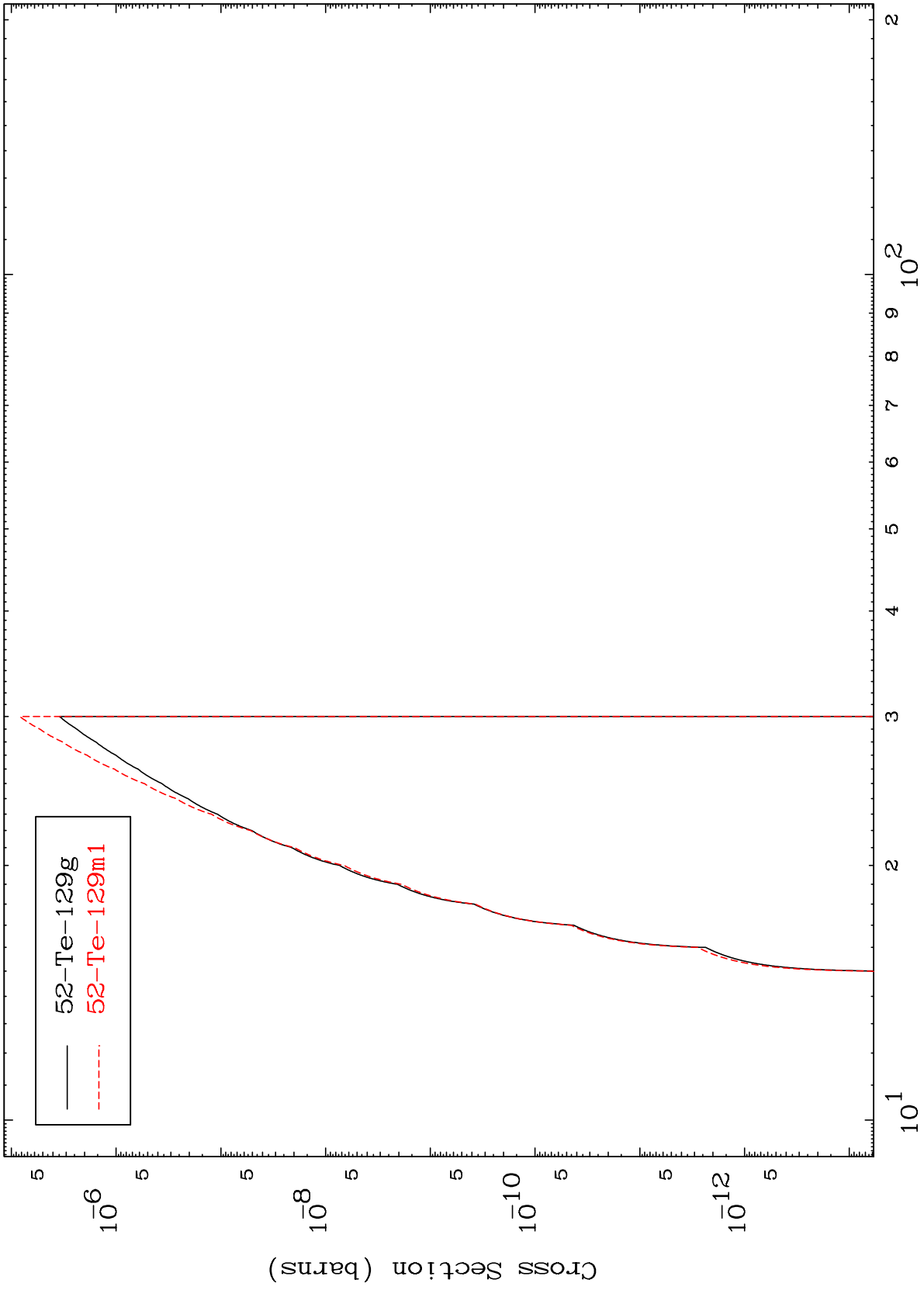
Incident Energy (MeV)

54-Xe-130

MAT 5443

54-Xe-130

(n,2p)  
Radionuclide Production Cross Section



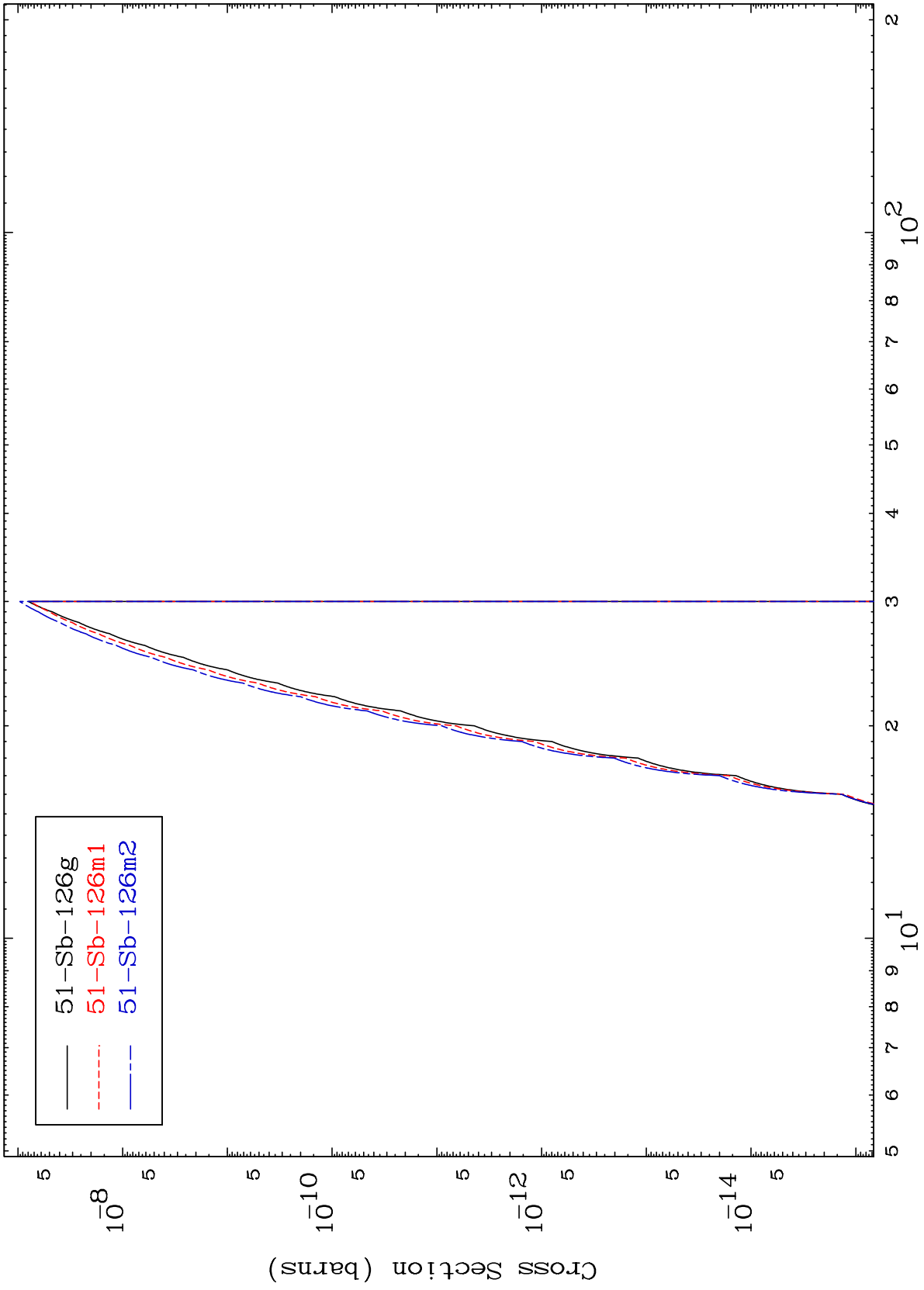
137

54-Xe-130

MAT 5443

54-Xe-130

(n,p)  $\alpha$   
Radionuclide Production Cross Section



138

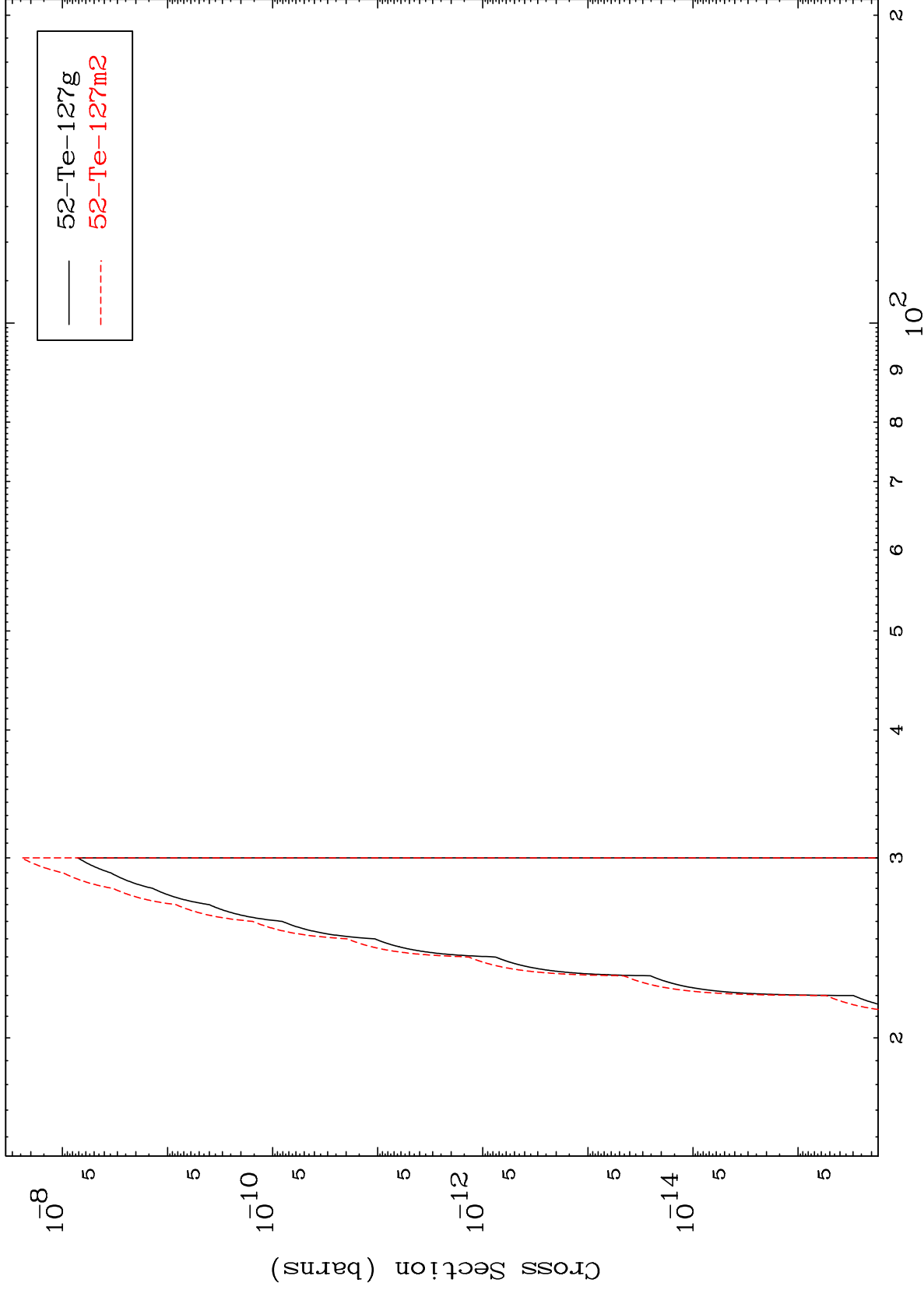
54-Xe-130

MAT 5443

(n,p) t

54-Xe-130

Radionuclide Production Cross Section



139

Incident Energy (MeV)

54-Xe-130