

Program EVALPLOT
(Version 2021-1)

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

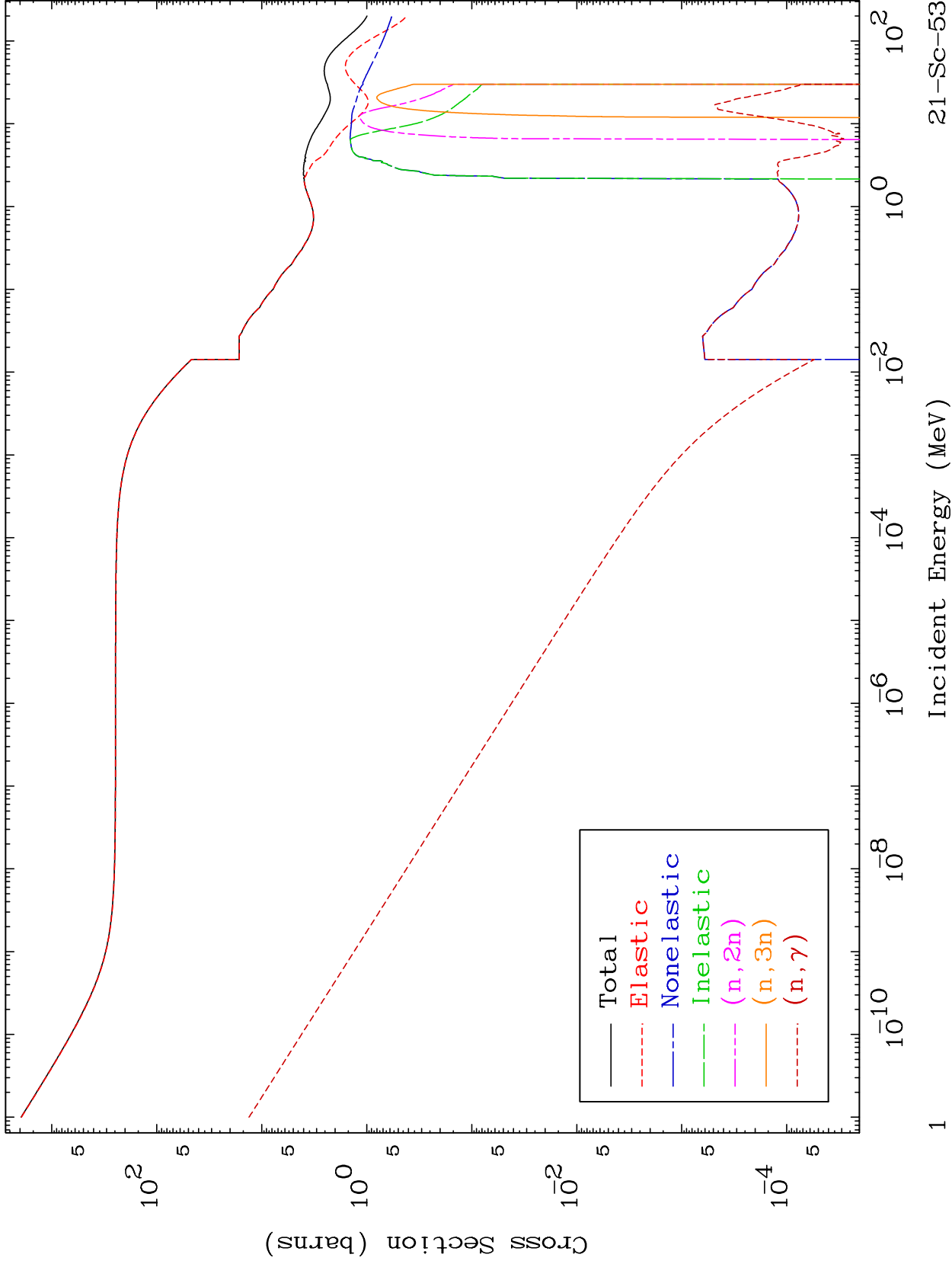
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2149

Neutron Major
293 Kelvin Cross Sections

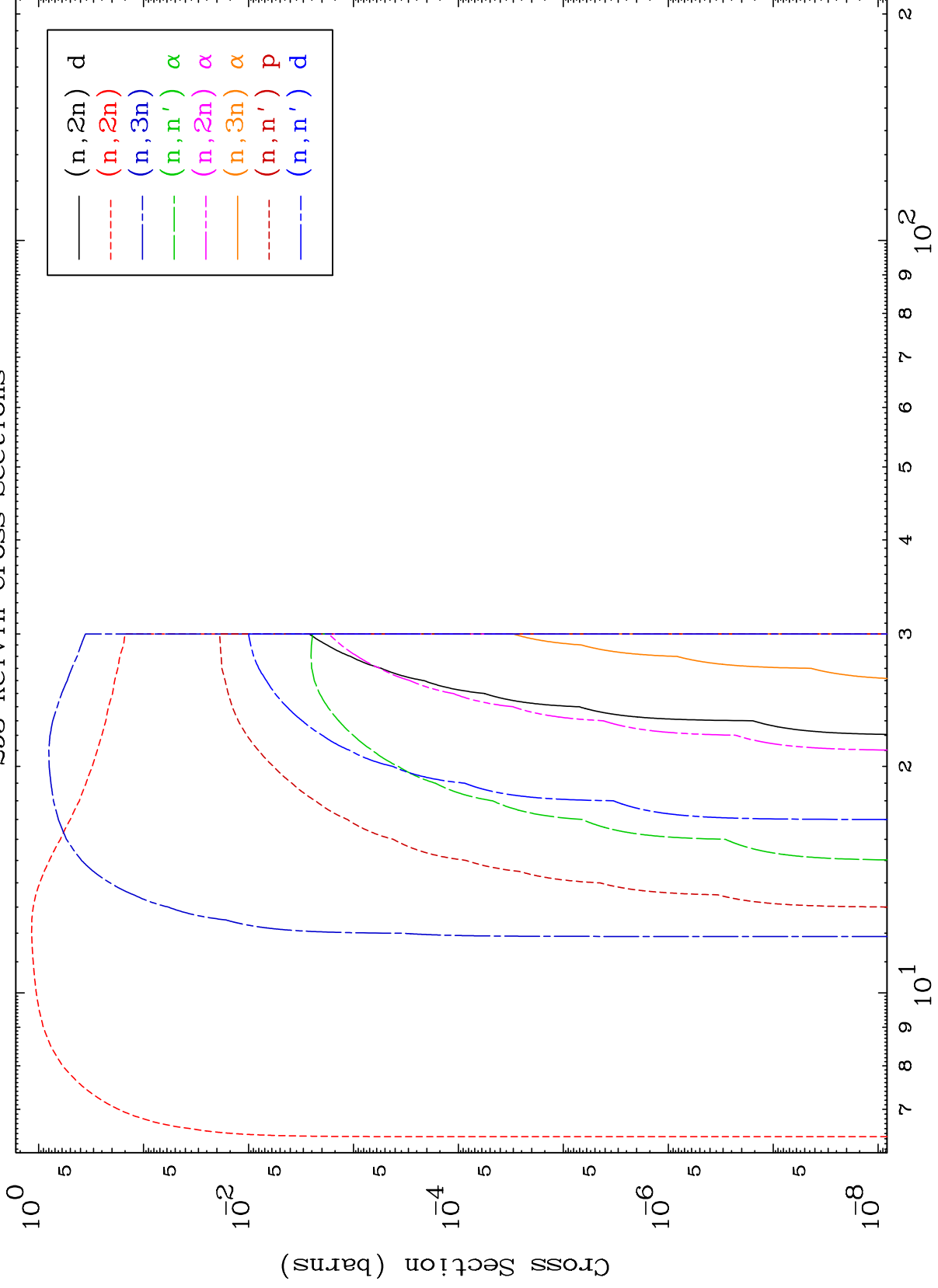
21-Sc-53



MAT 2149

Neutron Absorption
293 Kelvin Cross Sections

21-Sc-53



2

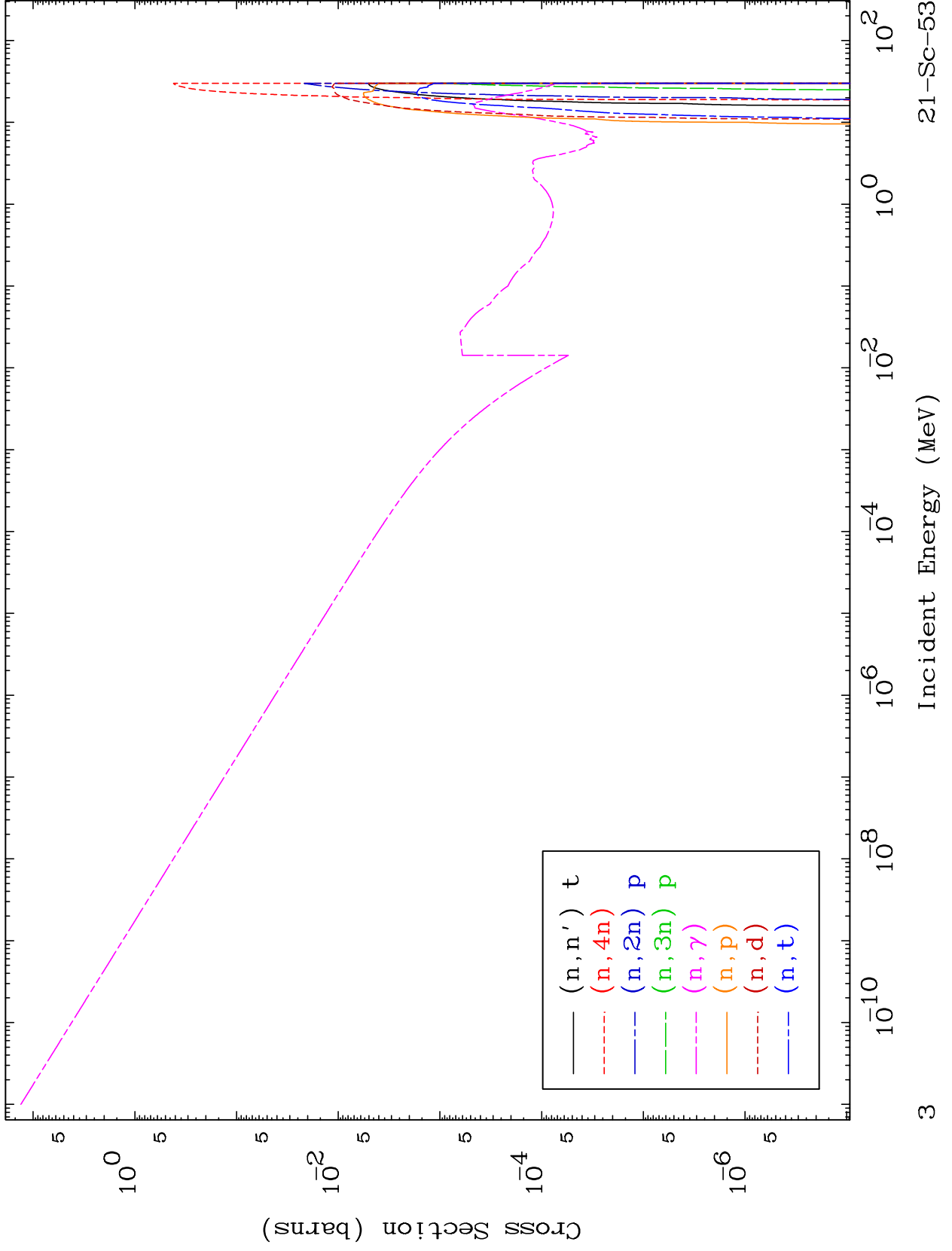
Incident Energy (MeV)

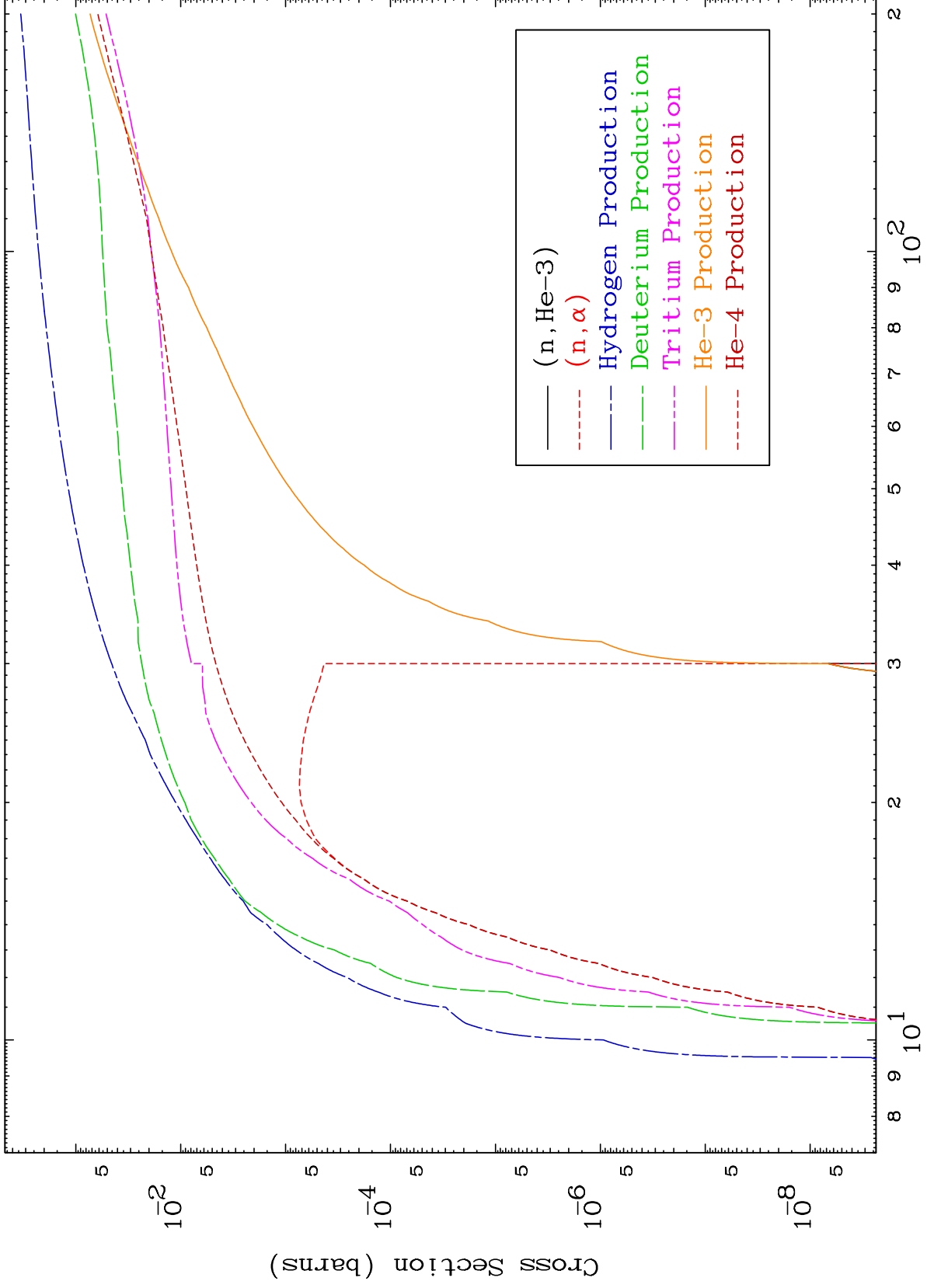
21-Sc-53

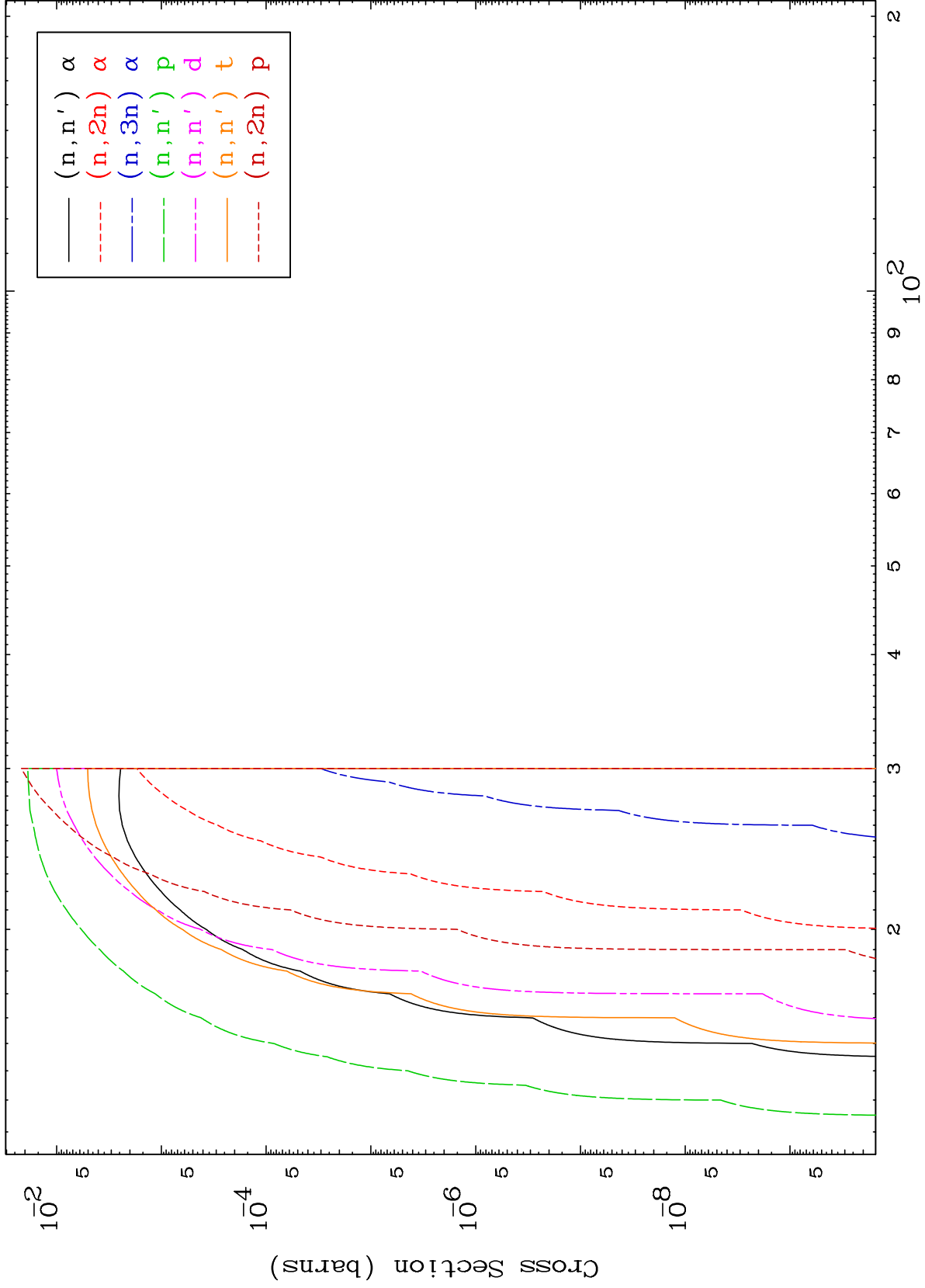
MAT 2149

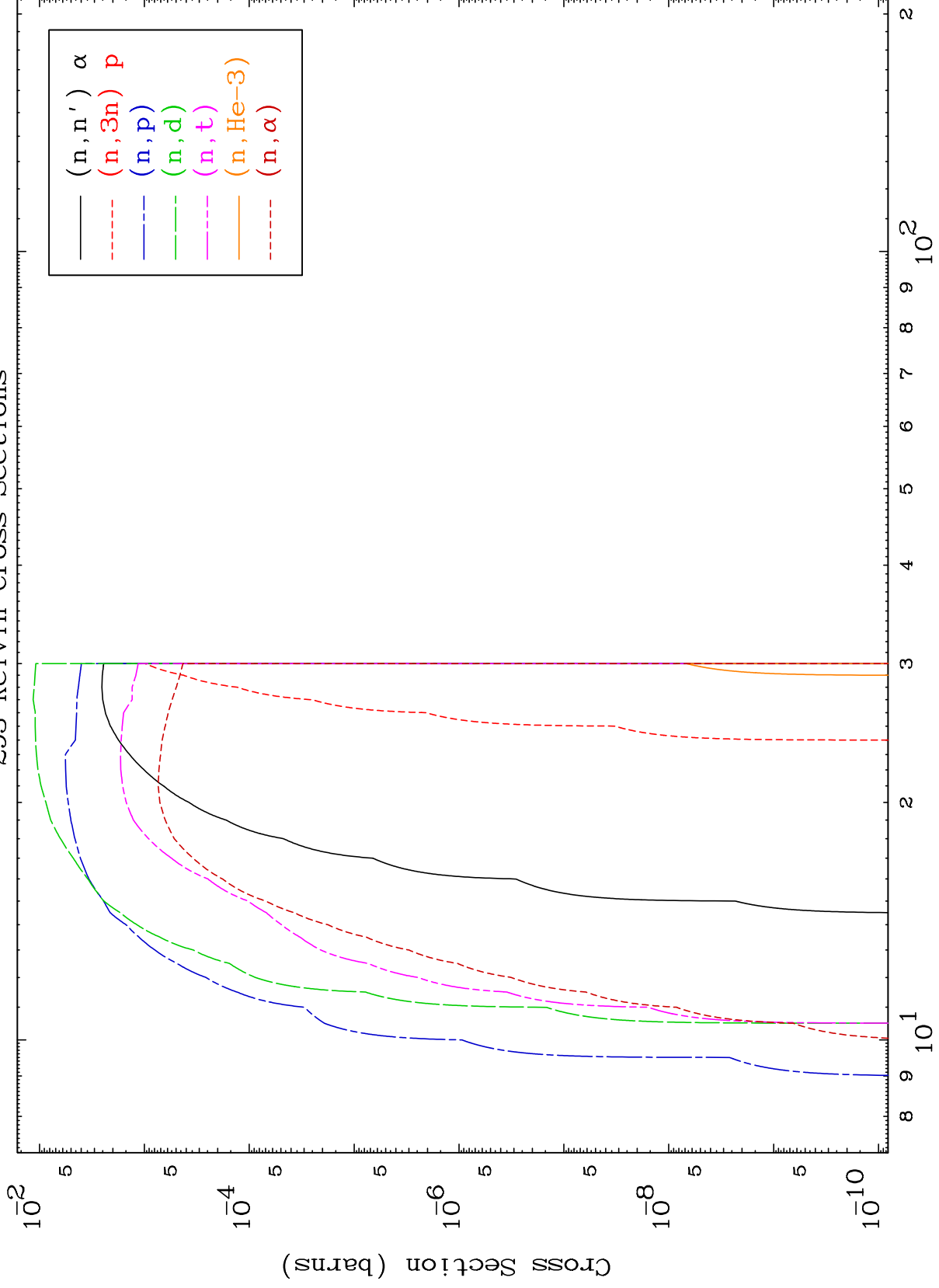
Neutron Absorption
293 Kelvin Cross Sections

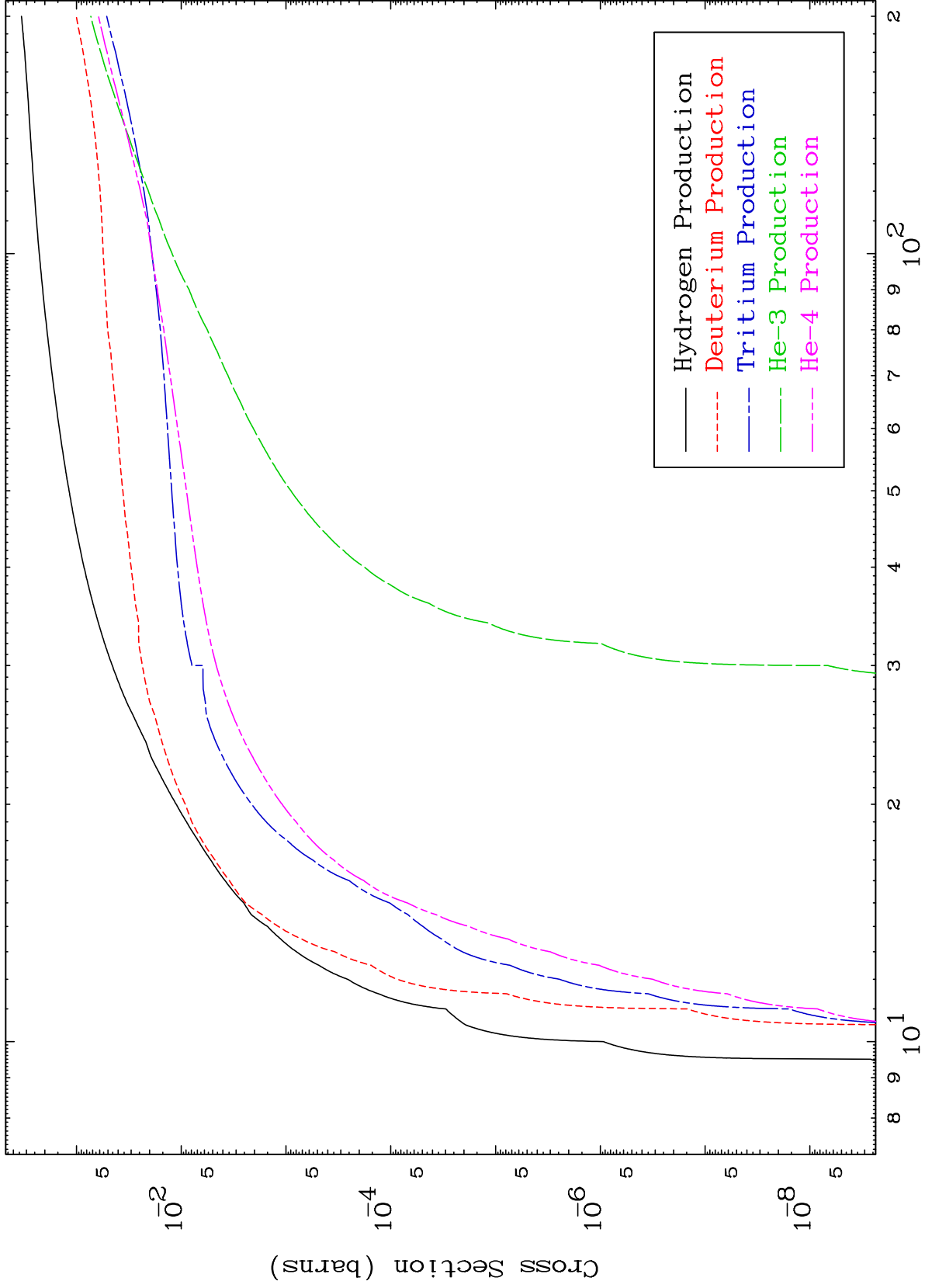
21-Sc-53









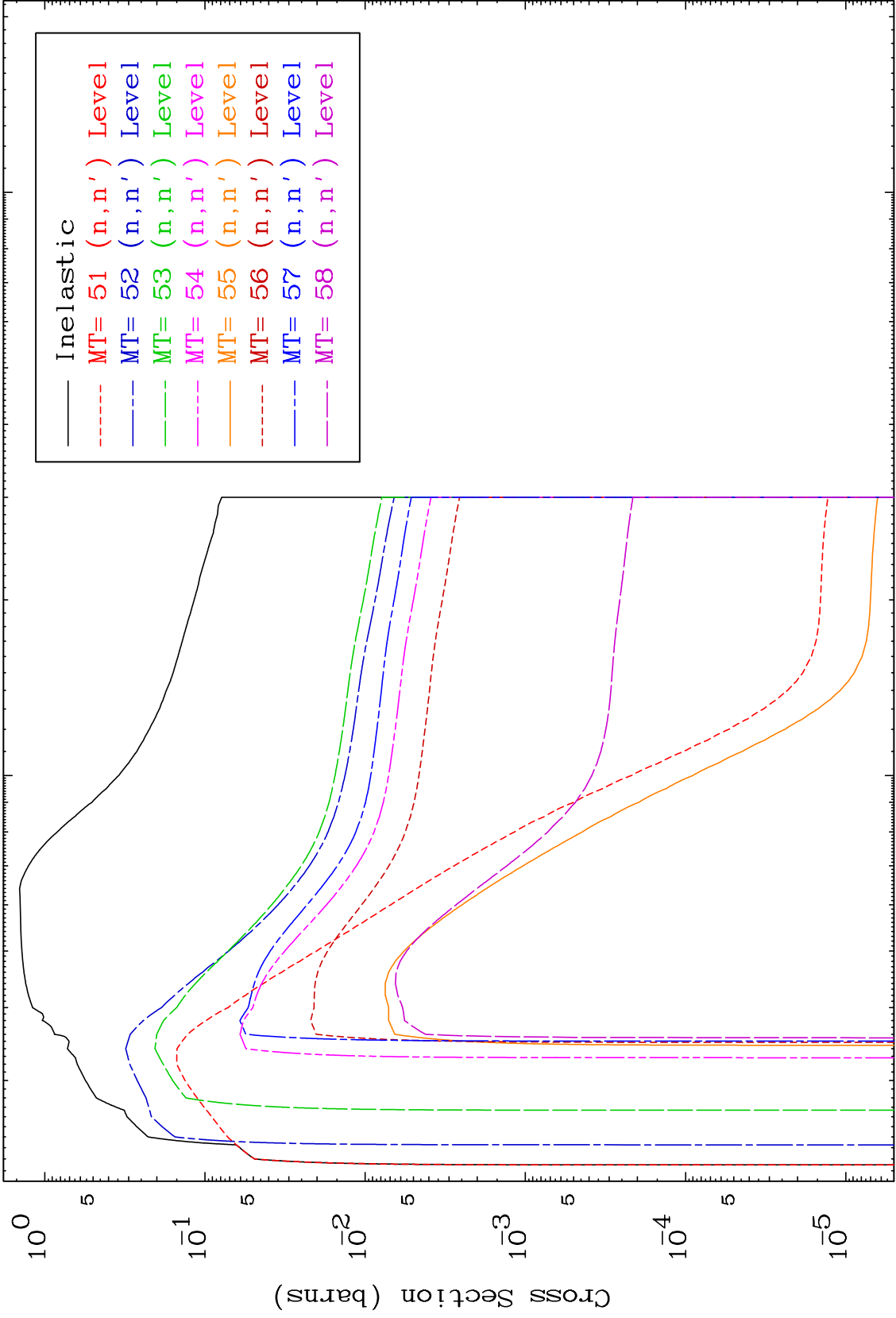


MAT 2149

(n,n') Levels

293 Kelvin Cross Sections

21-Sc-53

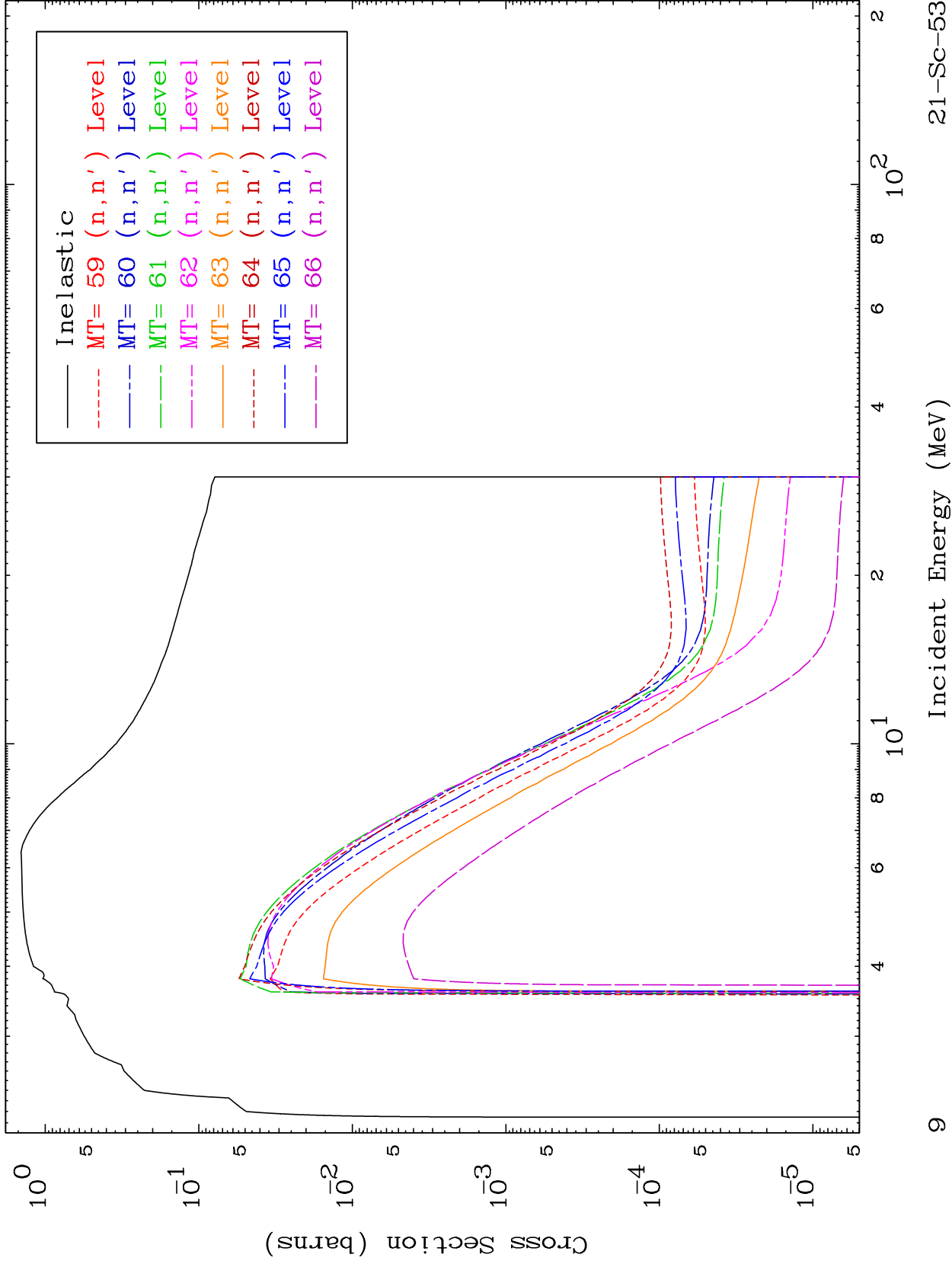


8

Incident Energy (MeV)

21-Sc-53

293 Kelvin Cross Sections

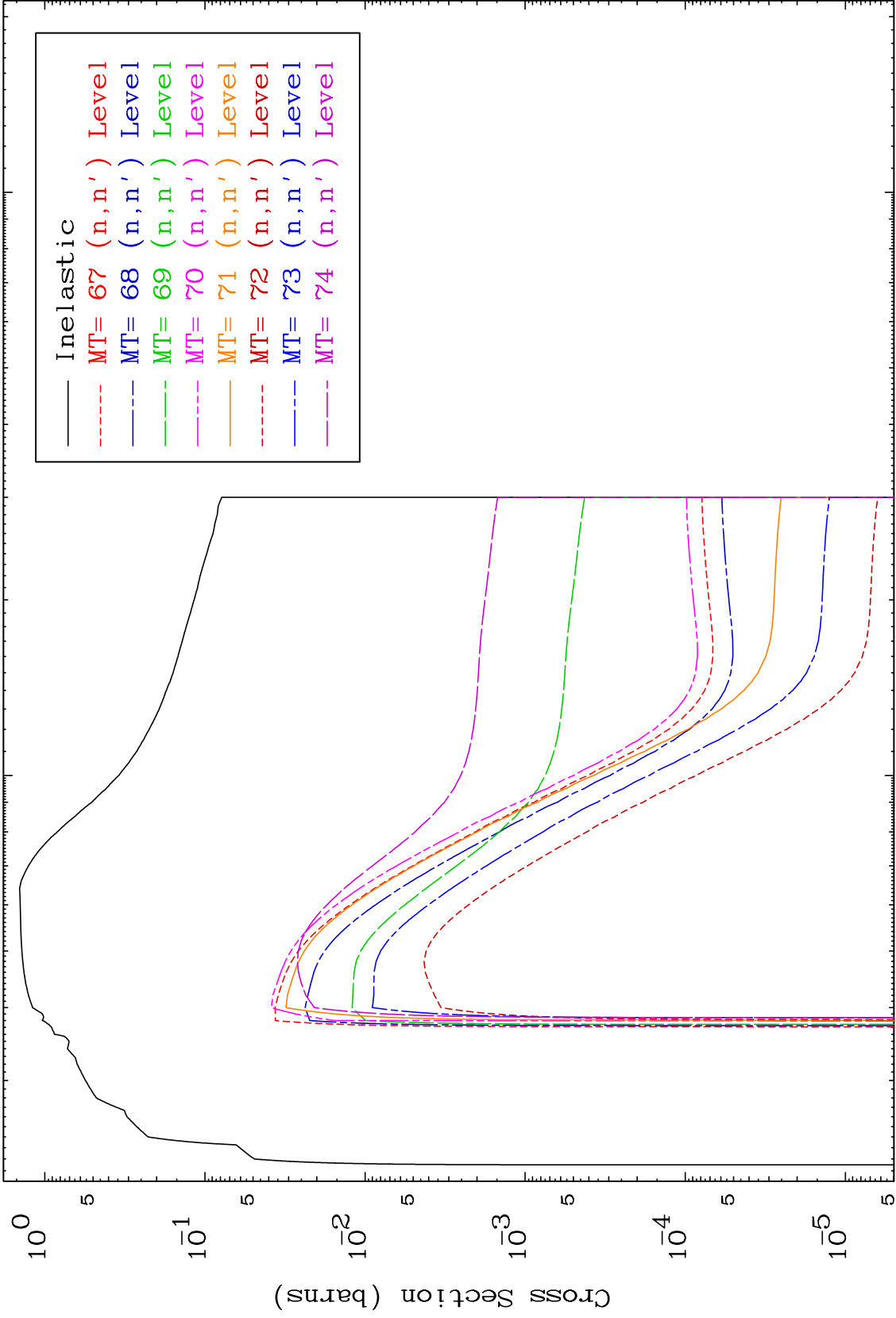


MAT 2149

(n,n') Levels

21-Sc-53

293 Kelvin Cross Sections

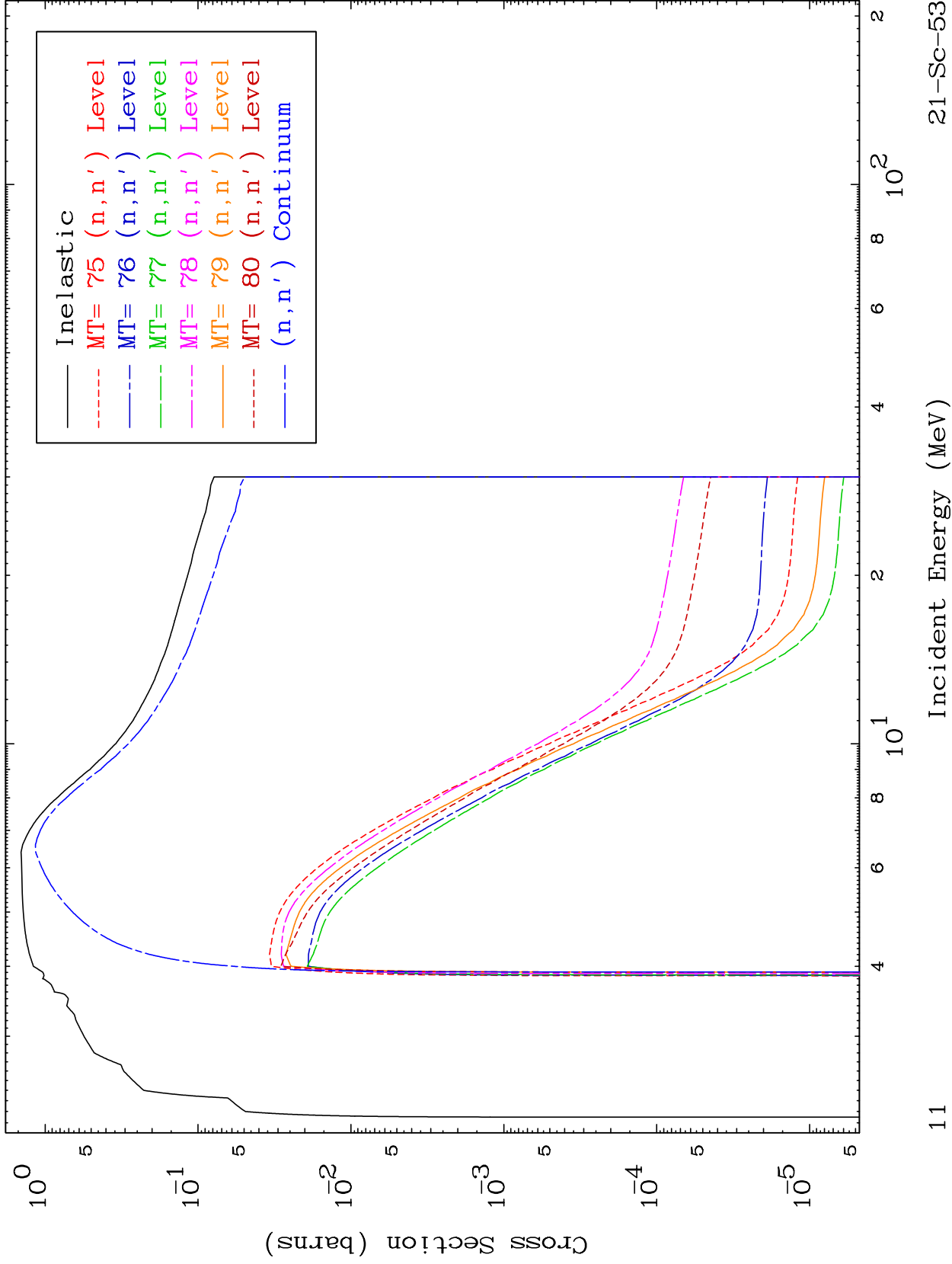


10

Incident Energy (MeV)

21-Sc-53

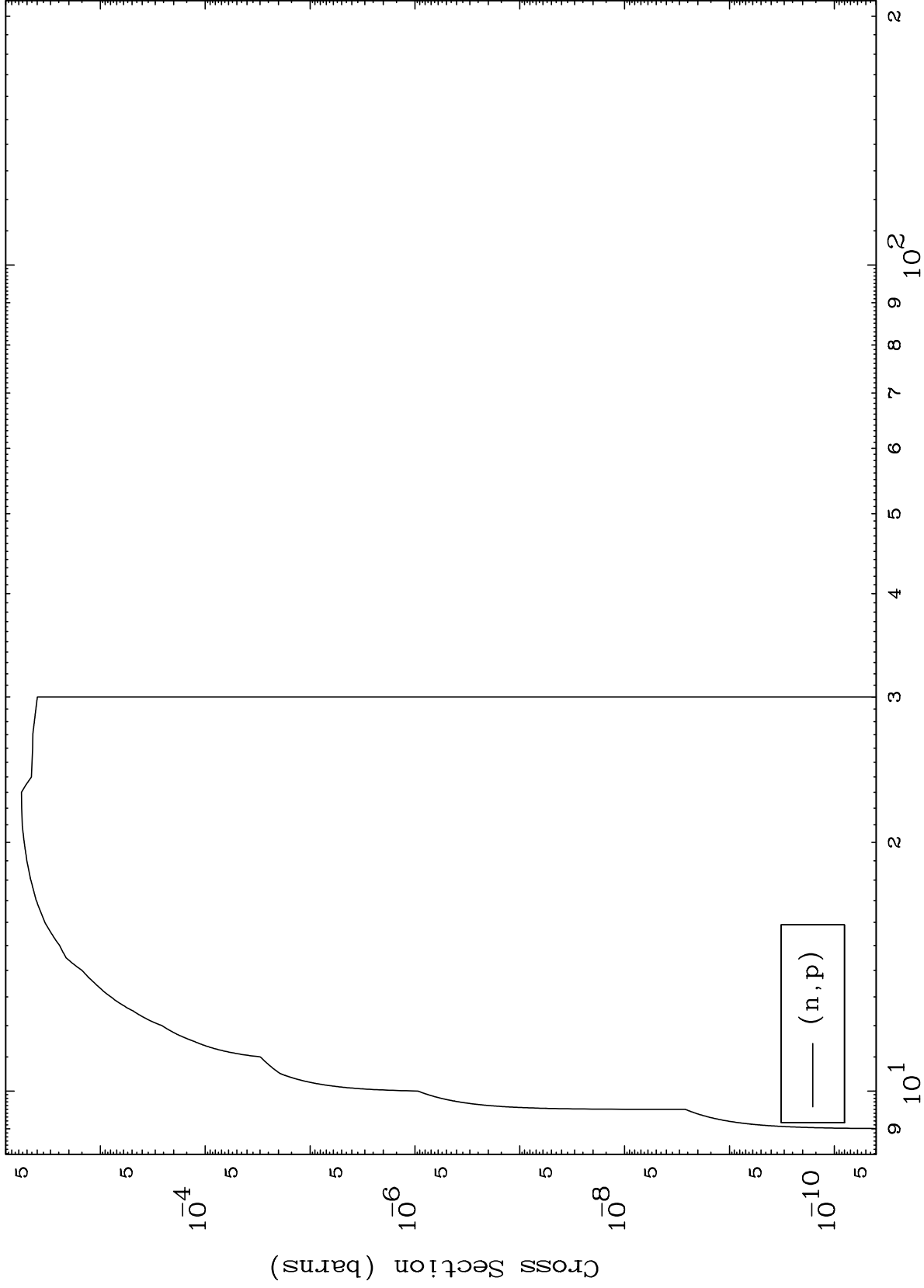
293 Kelvin Cross Sections



MAT 2149

(n,p) Levels
293 Kelvin Cross Sections

21-Sc-53



12

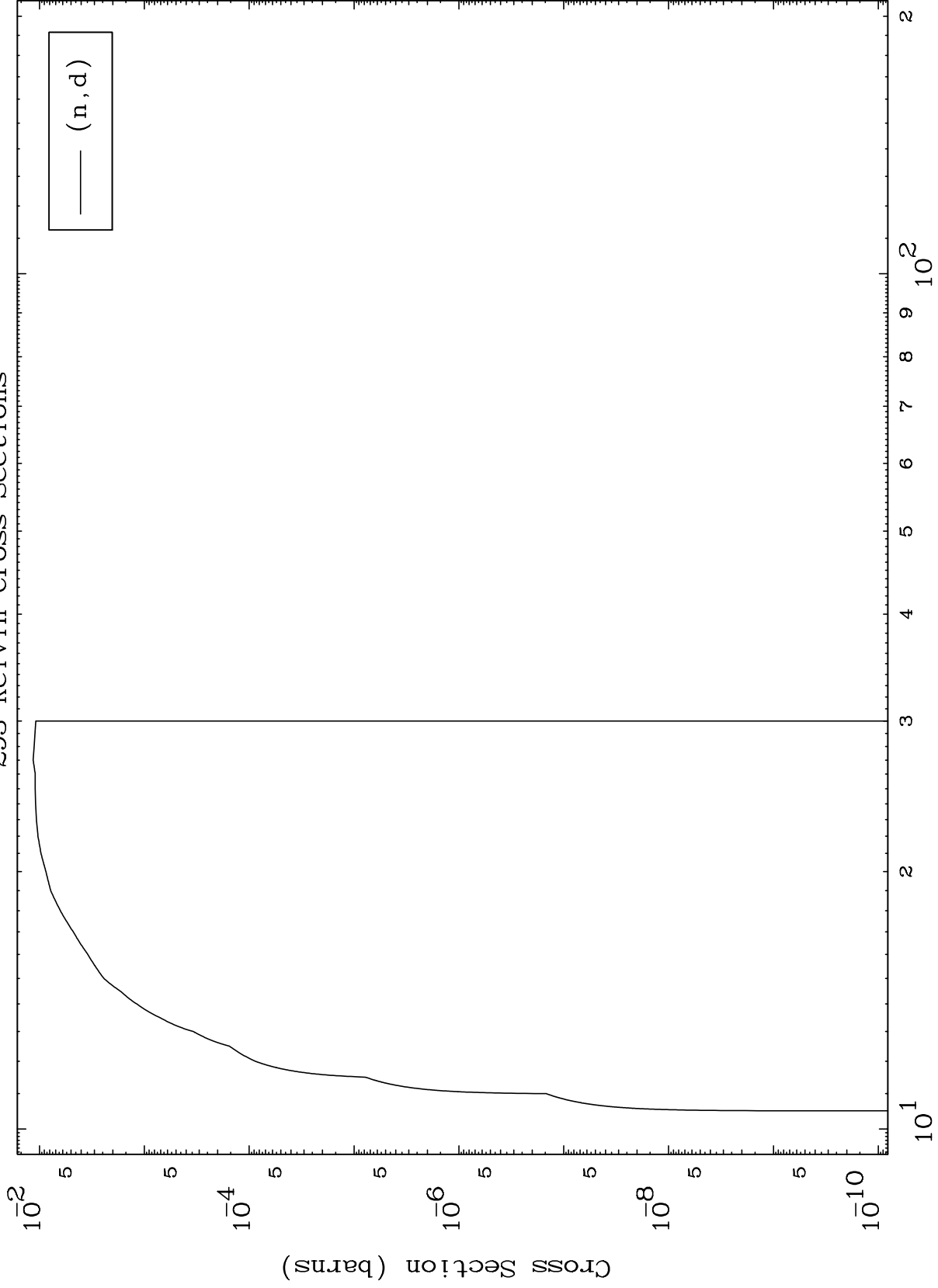
Incident Energy (MeV)

21-Sc-53

MAT 2149

(n,d) Levels
293 Kelvin Cross Sections

21-Sc-53



Incident Energy (MeV)

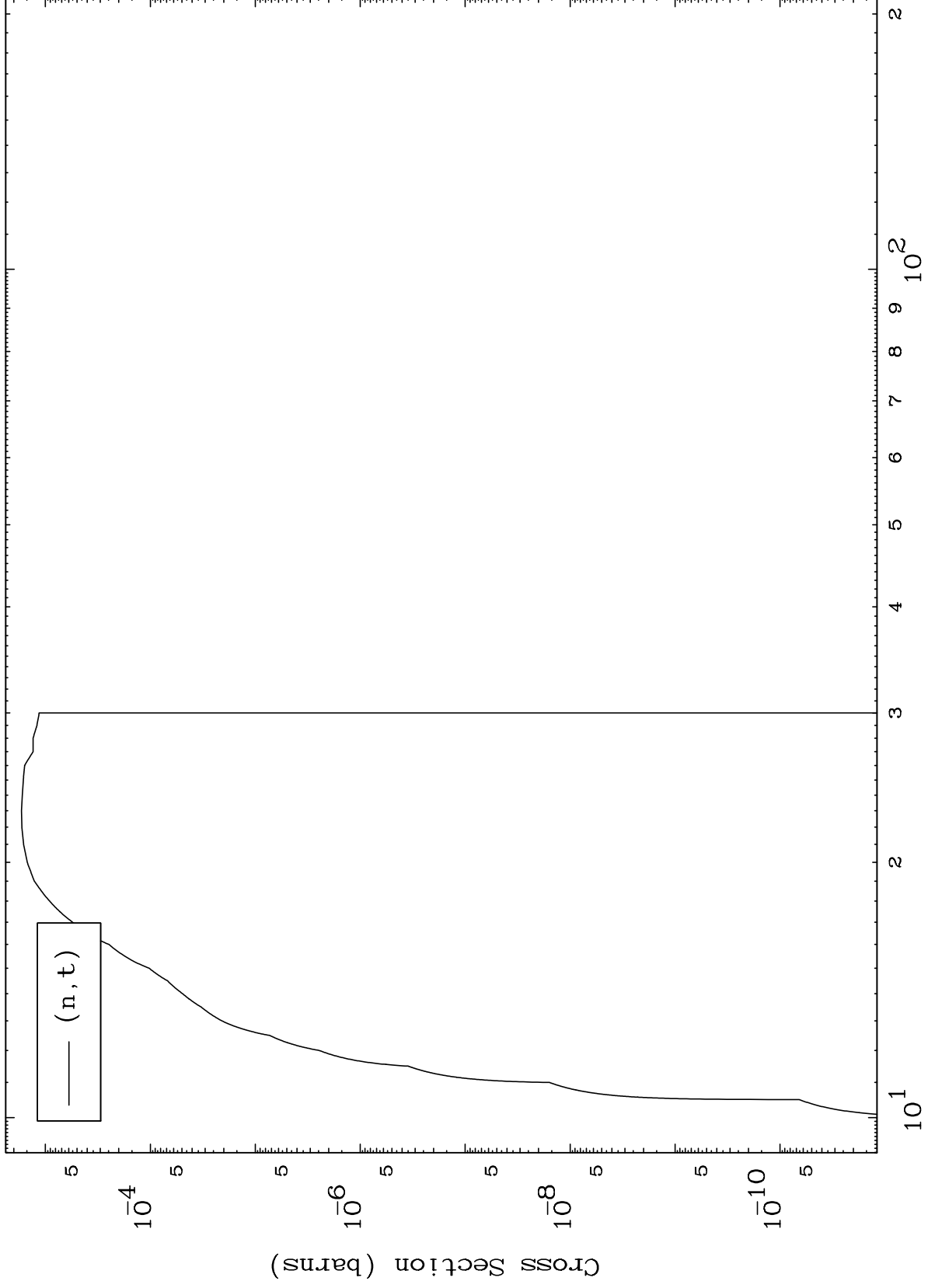
21-Sc-53

13

MAT 2149

(n,t) Levels
293 Kelvin Cross Sections

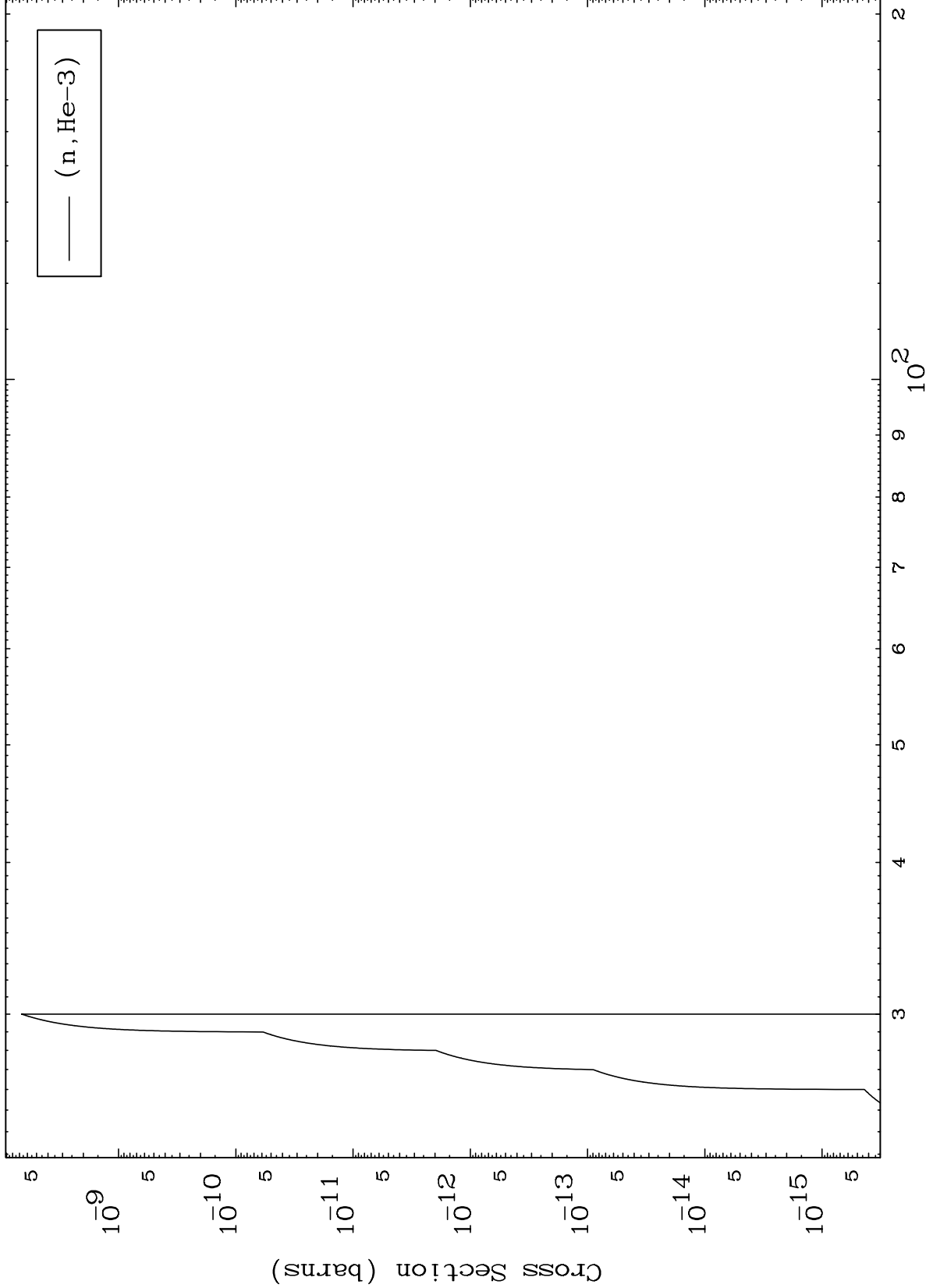
21-Sc-53



14

Incident Energy (MeV)

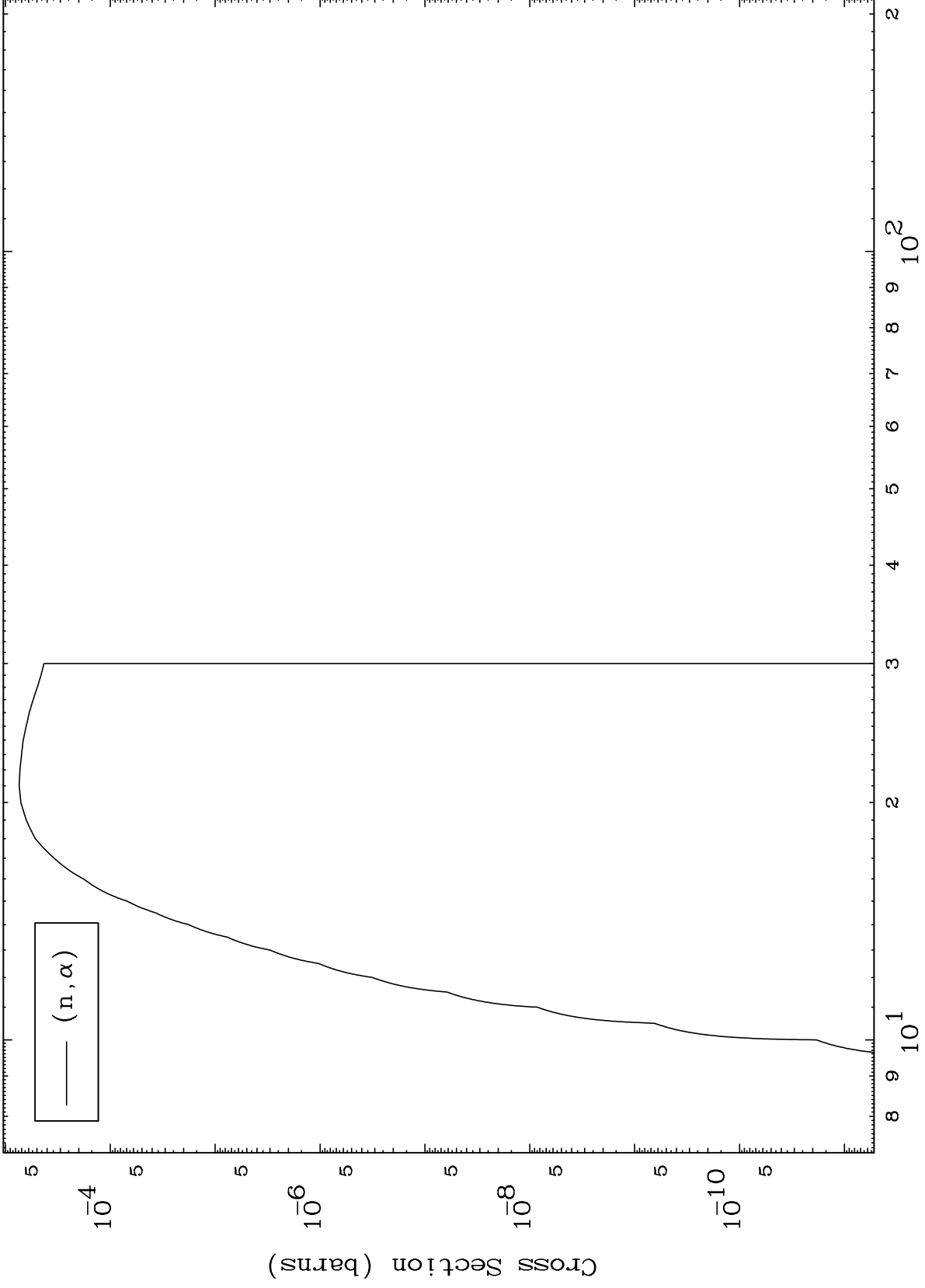
21-Sc-53



MAT 2149

(n, α) Levels
293 Kelvin Cross Sections

21-Sc-53



16

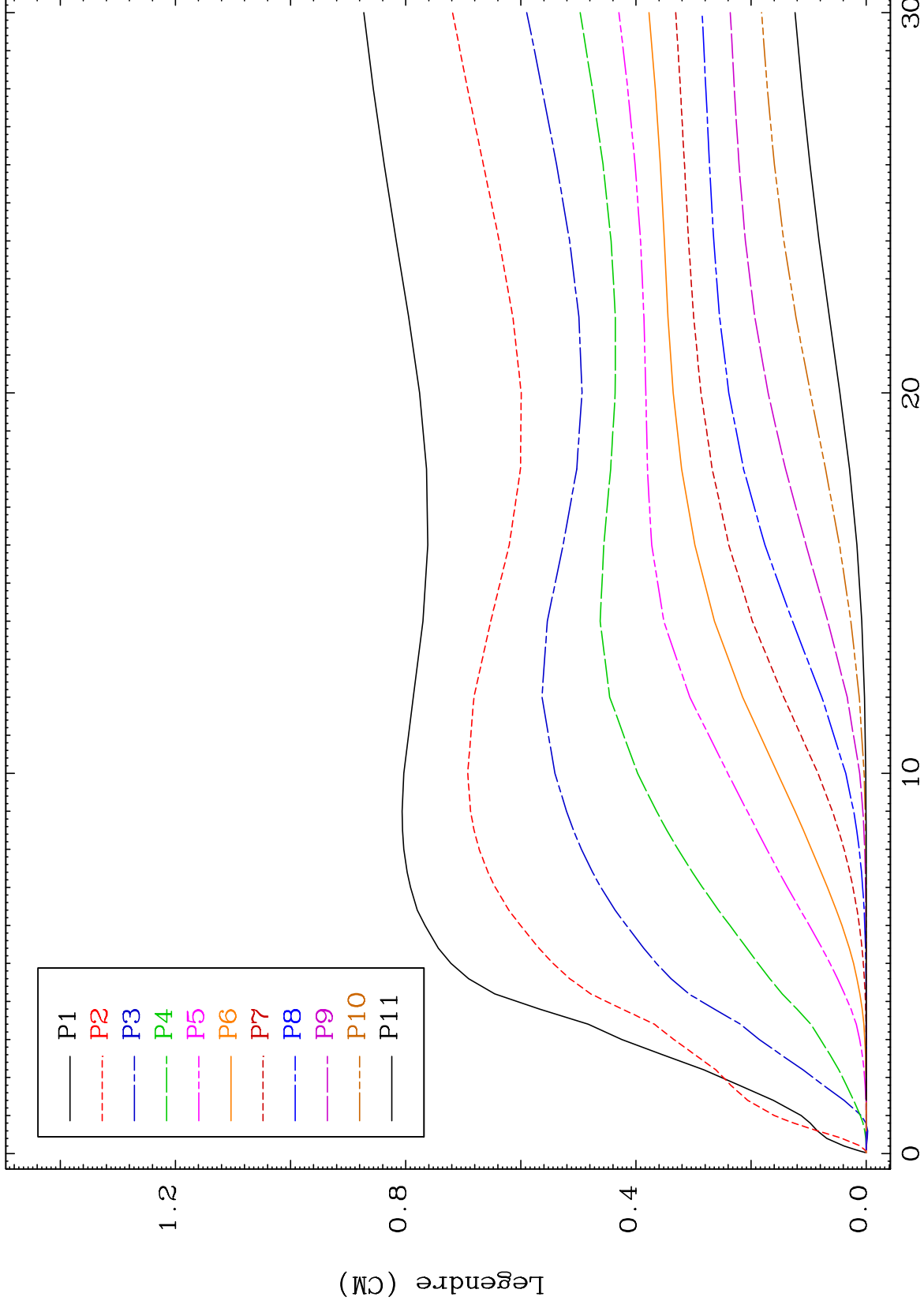
Incident Energy (MeV)

21-Sc-53

MAT 2149

Elastic Legendre Coefficients

21-Sc-53



17

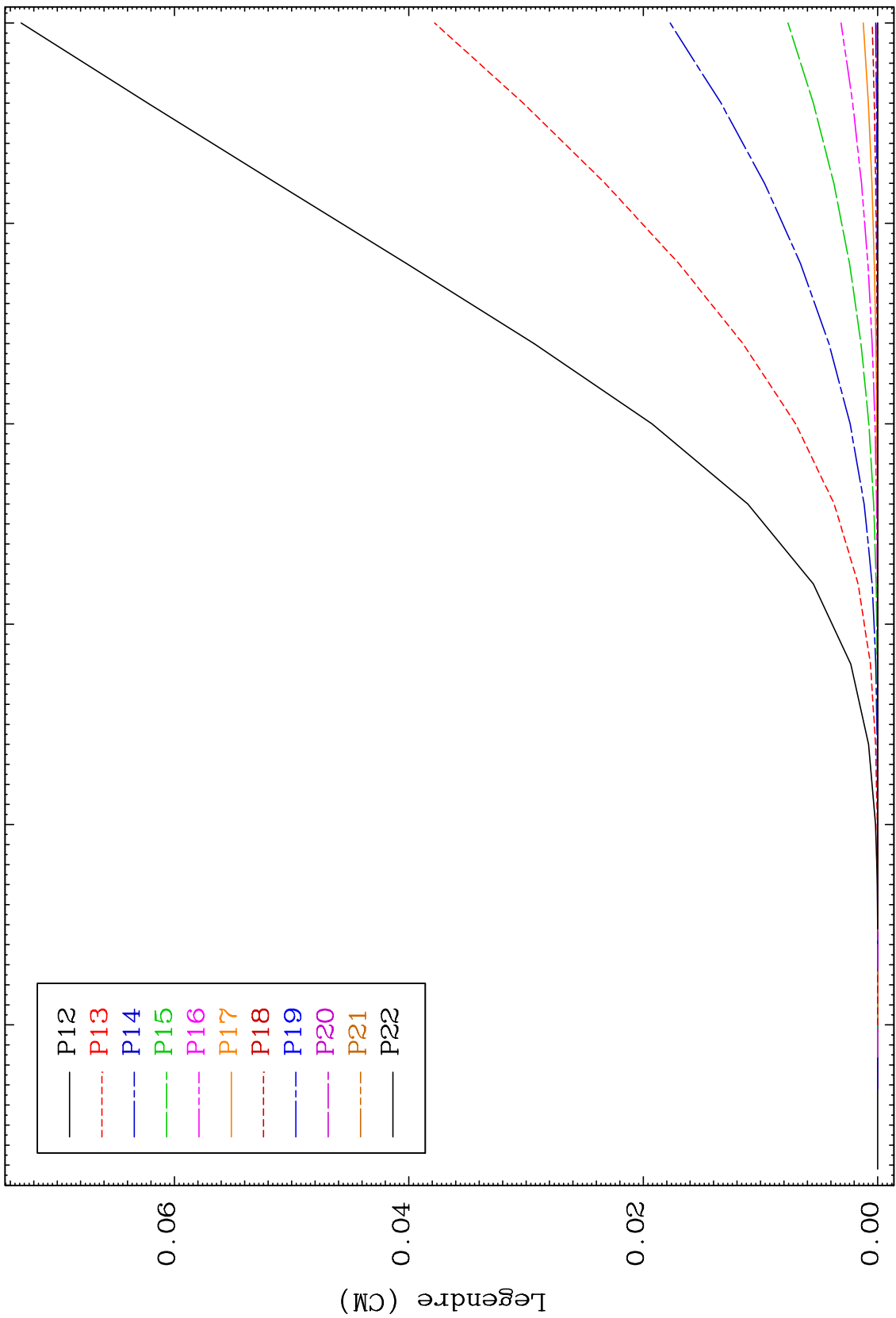
Incident Energy (MeV)

21-Sc-53

MAT 2149

Elastic
Legendre Coefficients

21-Sc-53



18

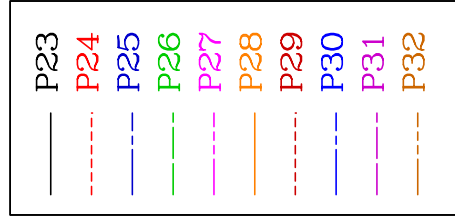
Incident Energy (MeV)

21-Sc-53

MAT 2149

Elastic Legendre Coefficients

21-Sc-53



$\times 10^{-6}$
1.5

1.0

0.5

0.0

10

15

20

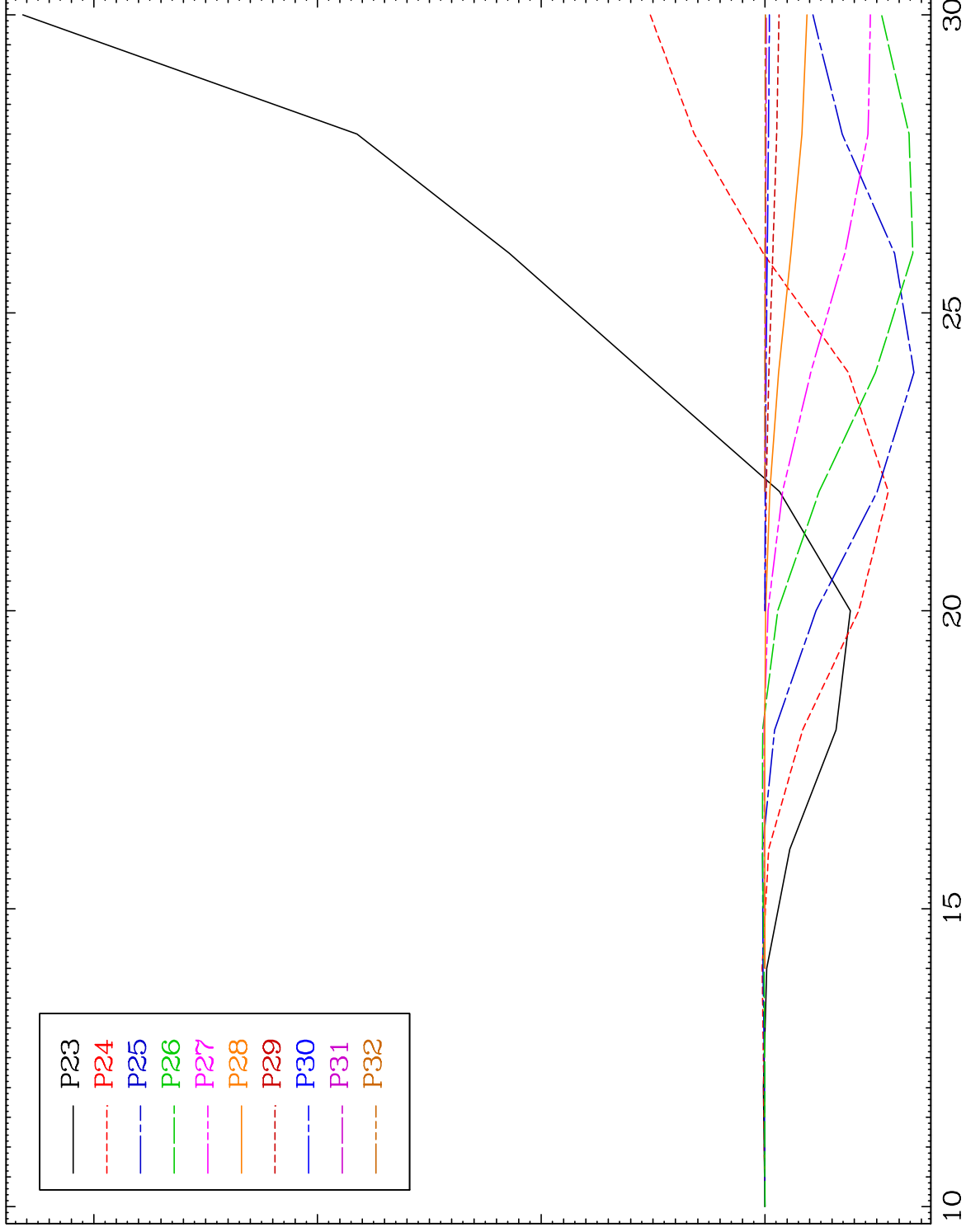
25

30

19

Incident Energy (MeV)

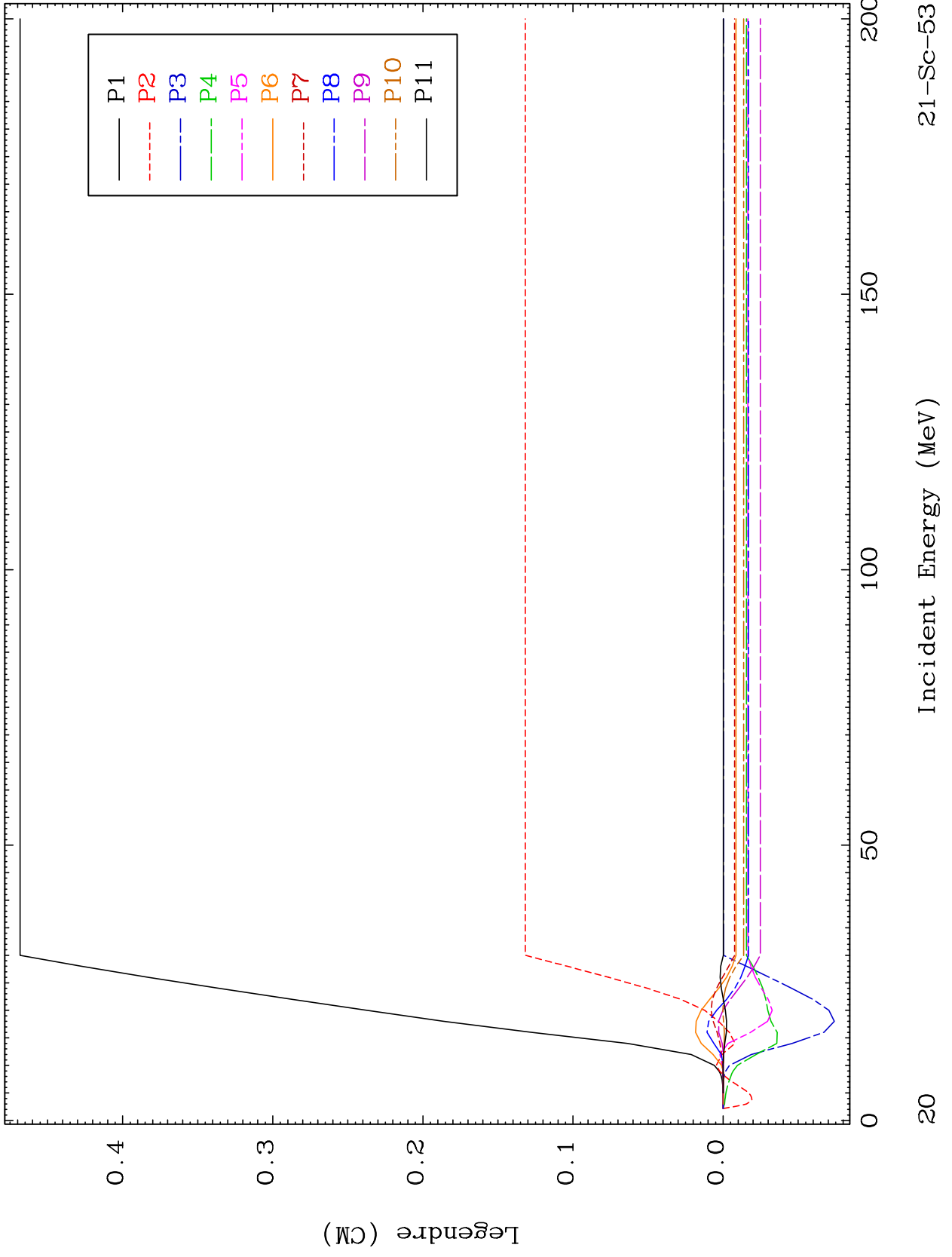
21-Sc-53

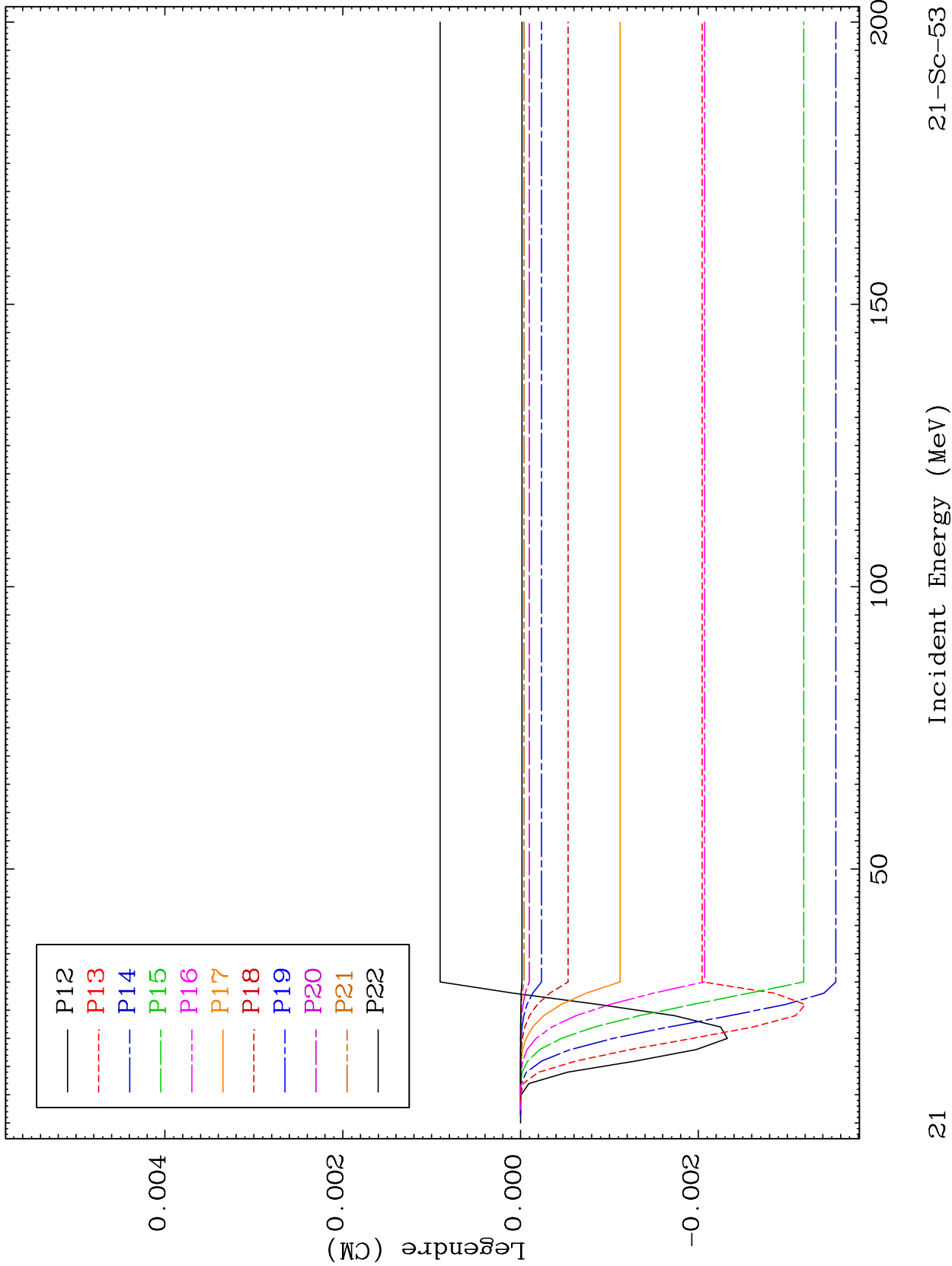


MAT 2149

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

21-Sc-53

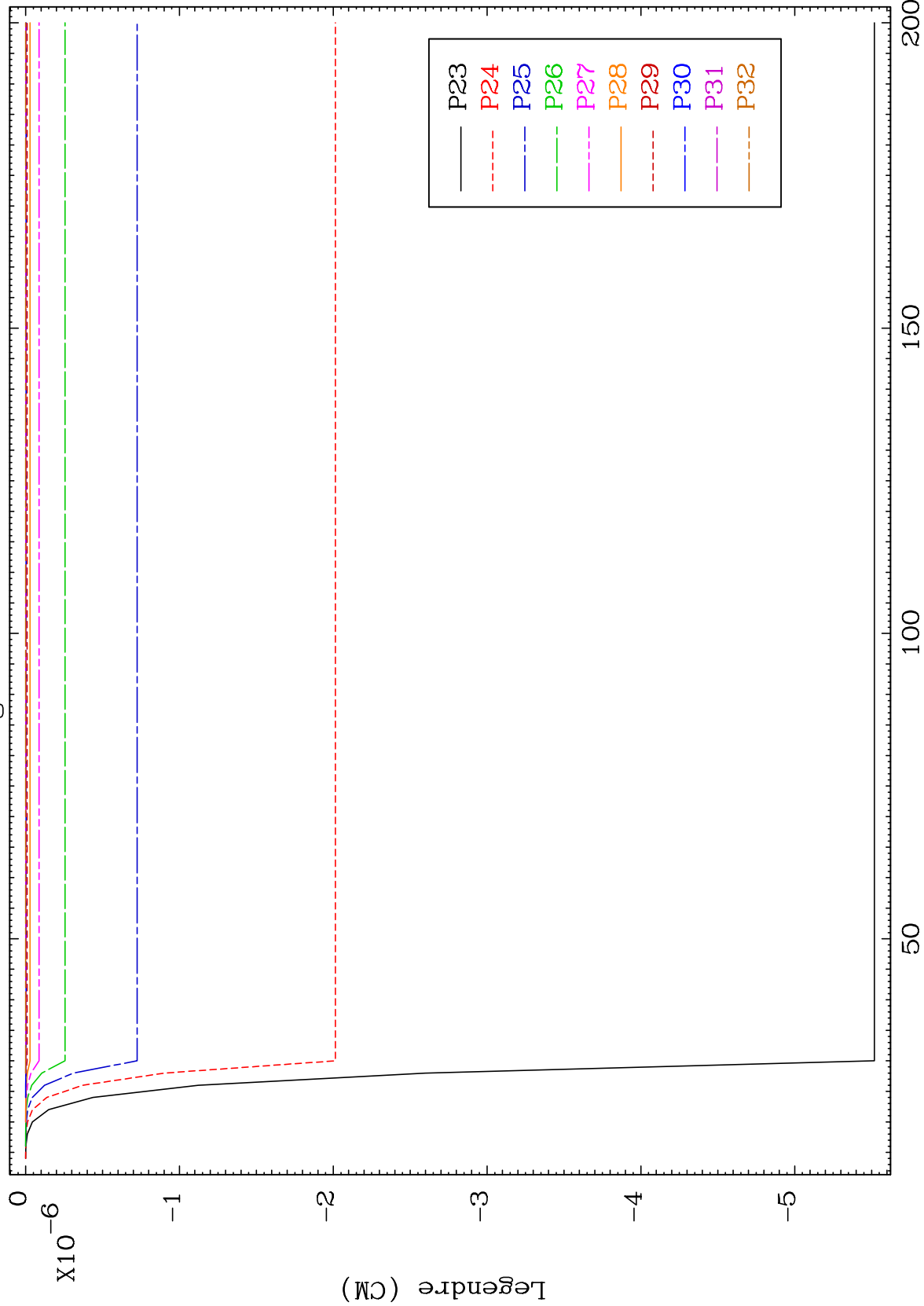




MAT 2149

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

21-Sc-53



22

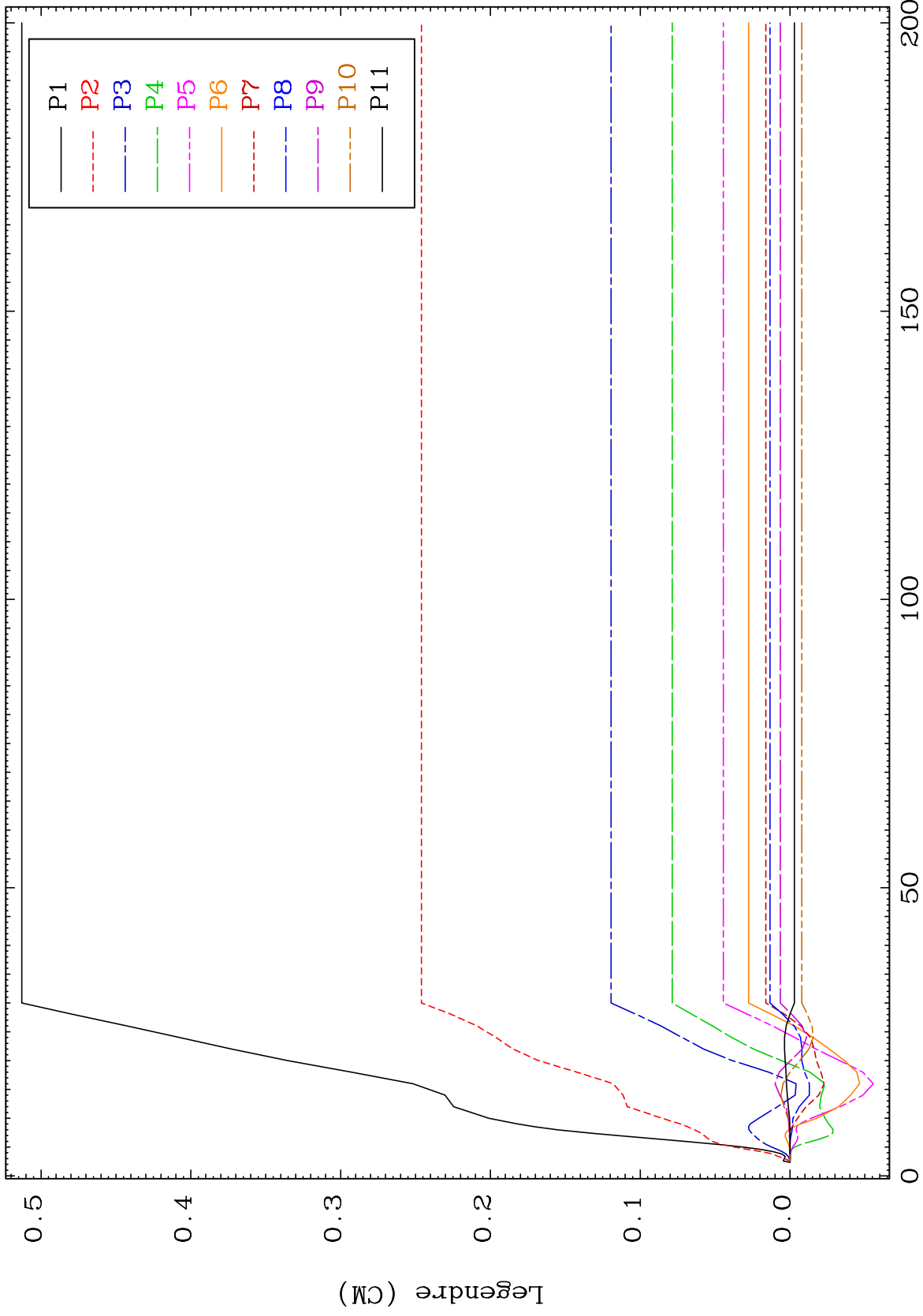
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



23

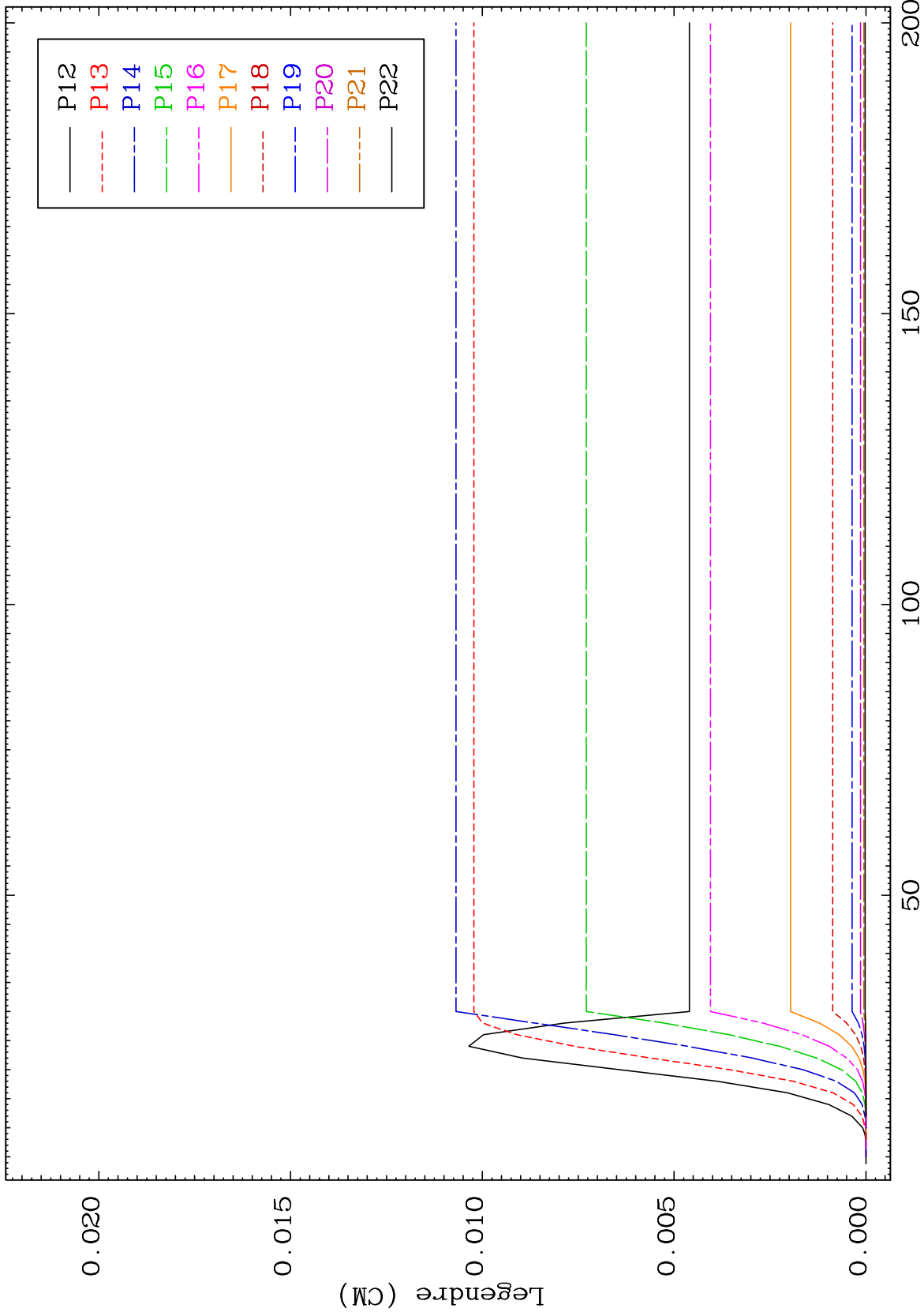
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



24

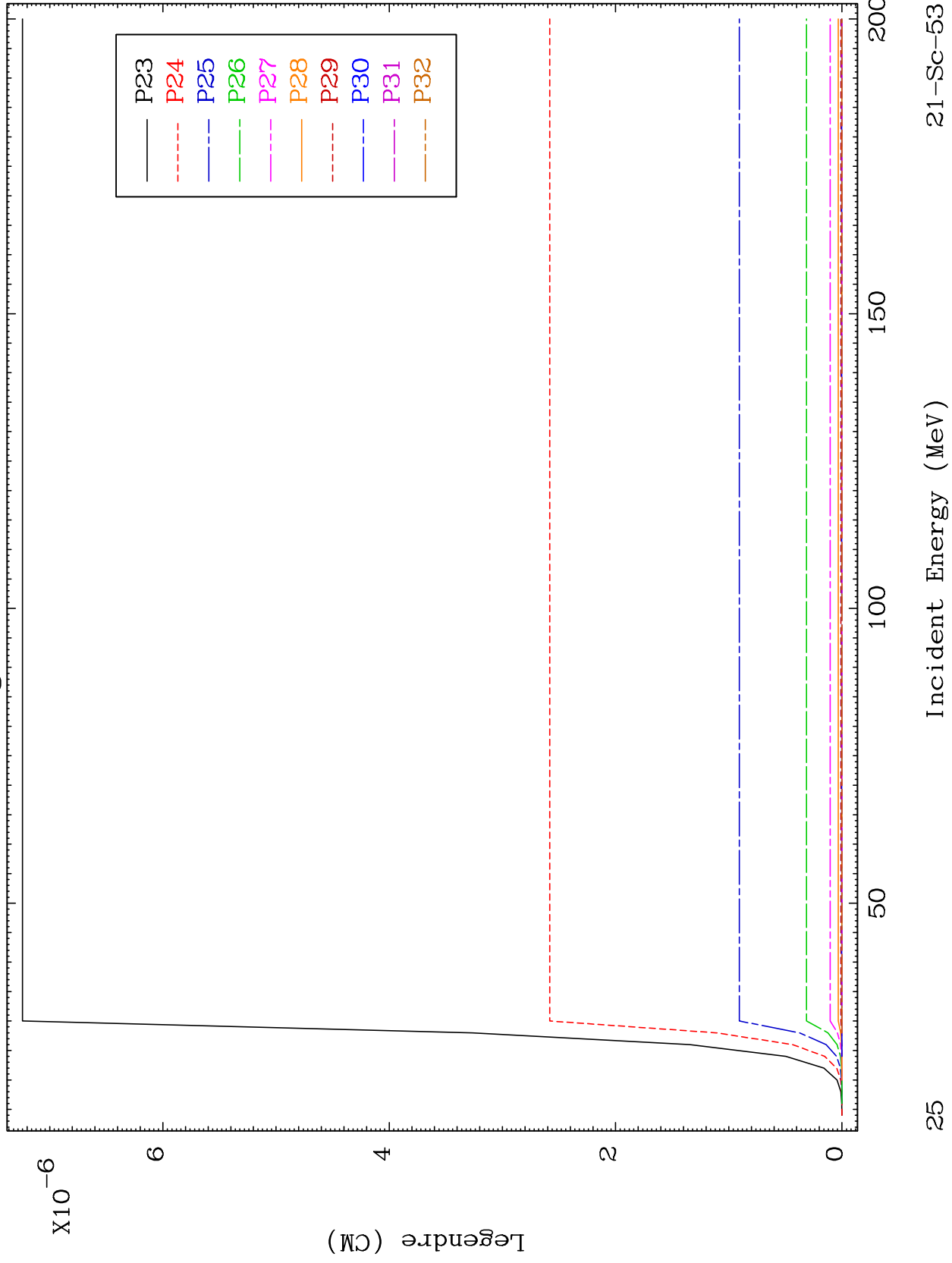
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

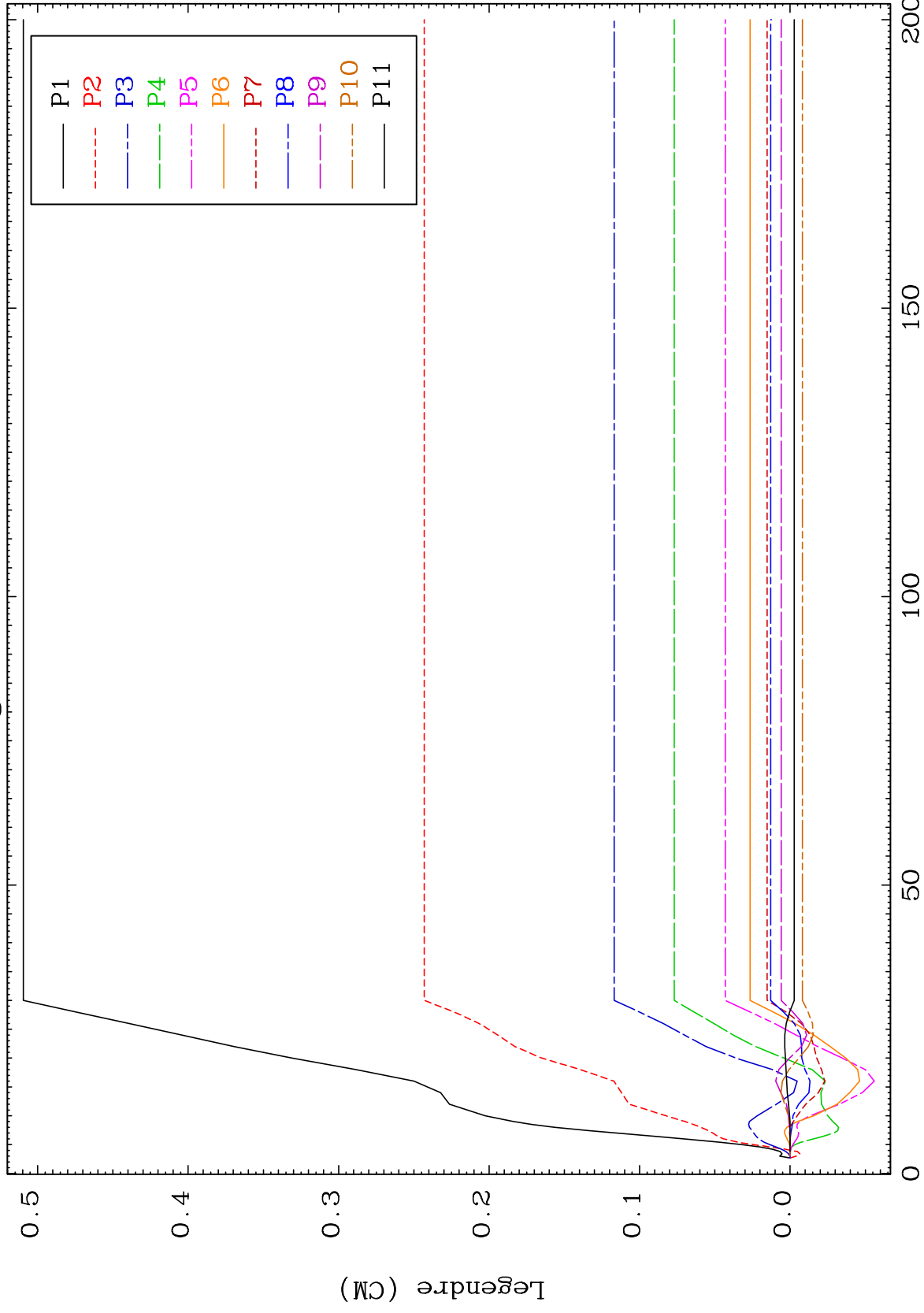
21-Sc-53



MAT 2149

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

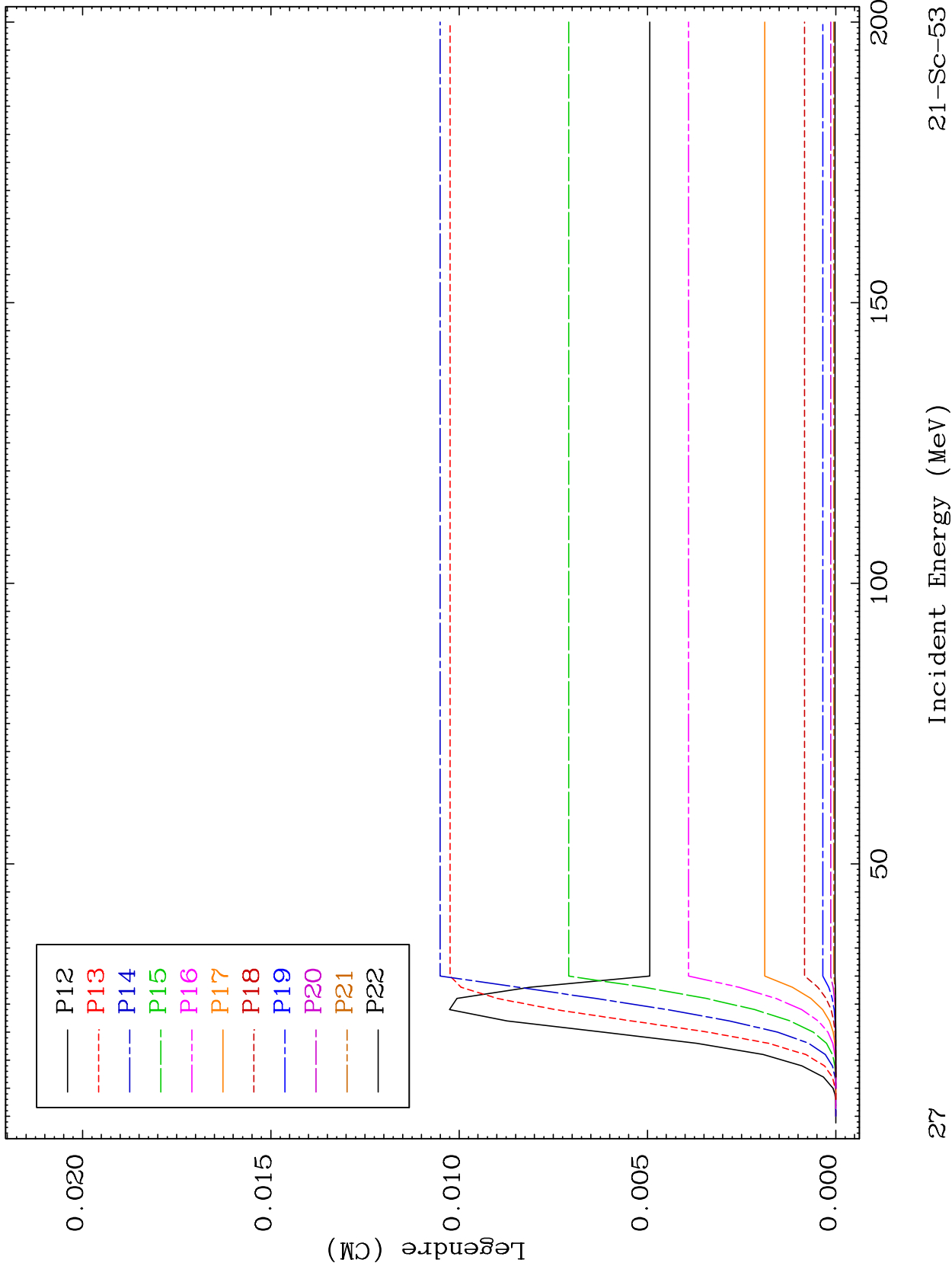
21-Sc-53



26

Incident Energy (MeV)

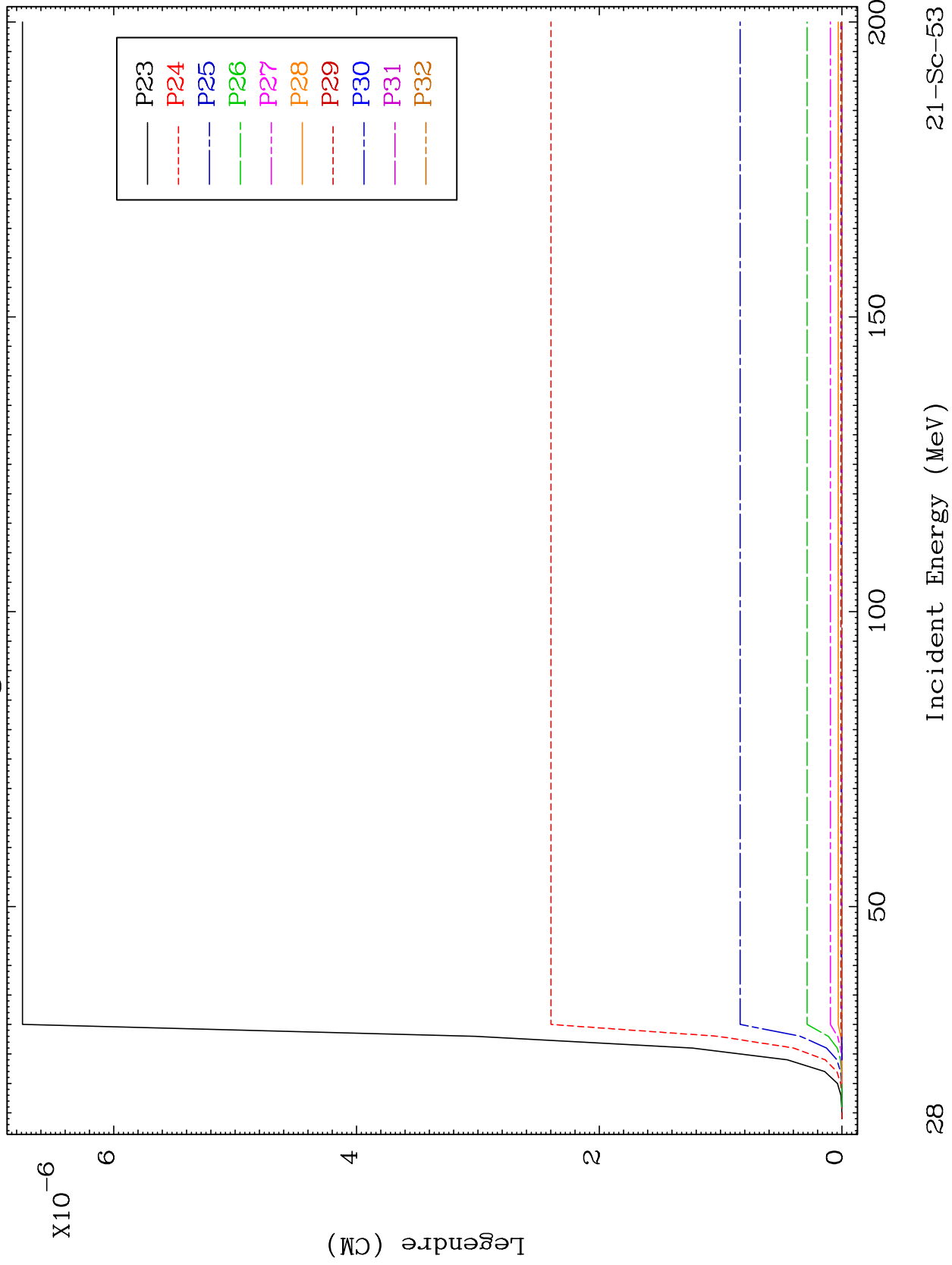
21-Sc-53



MAT 2149

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

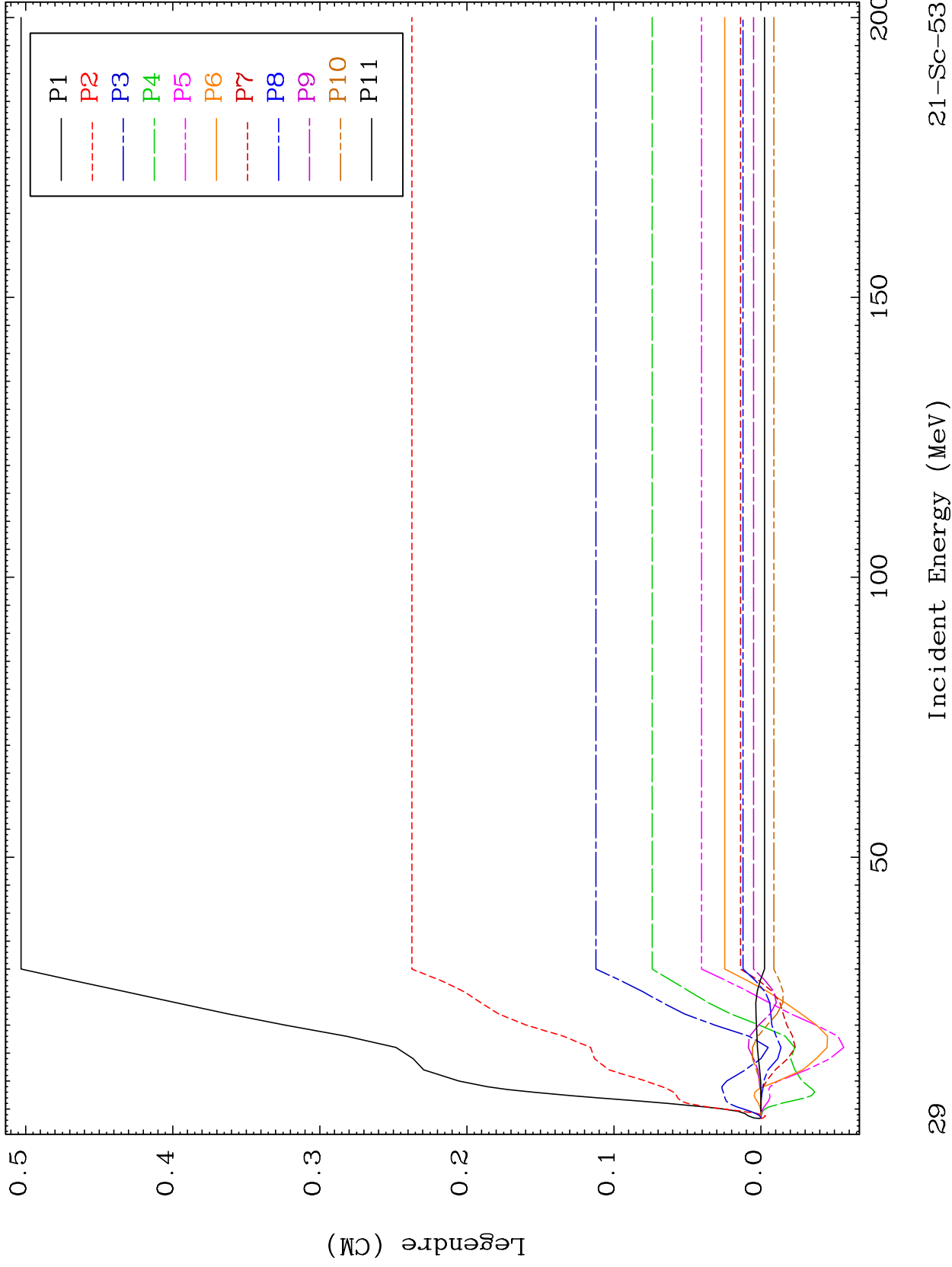
21-Sc-53



28

Incident Energy (MeV)

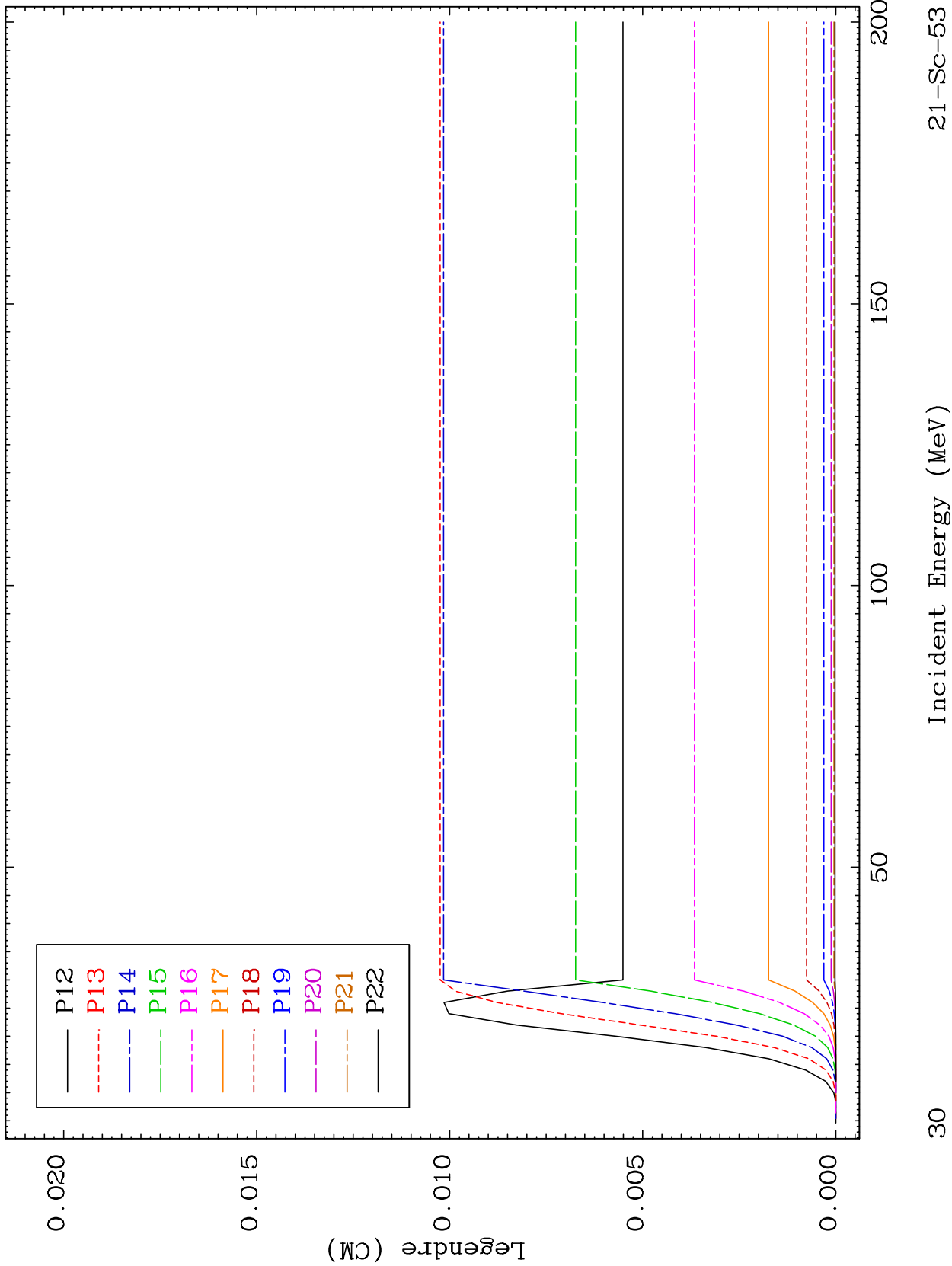
21-Sc-53



MAT 2149

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

21-Sc-53



30

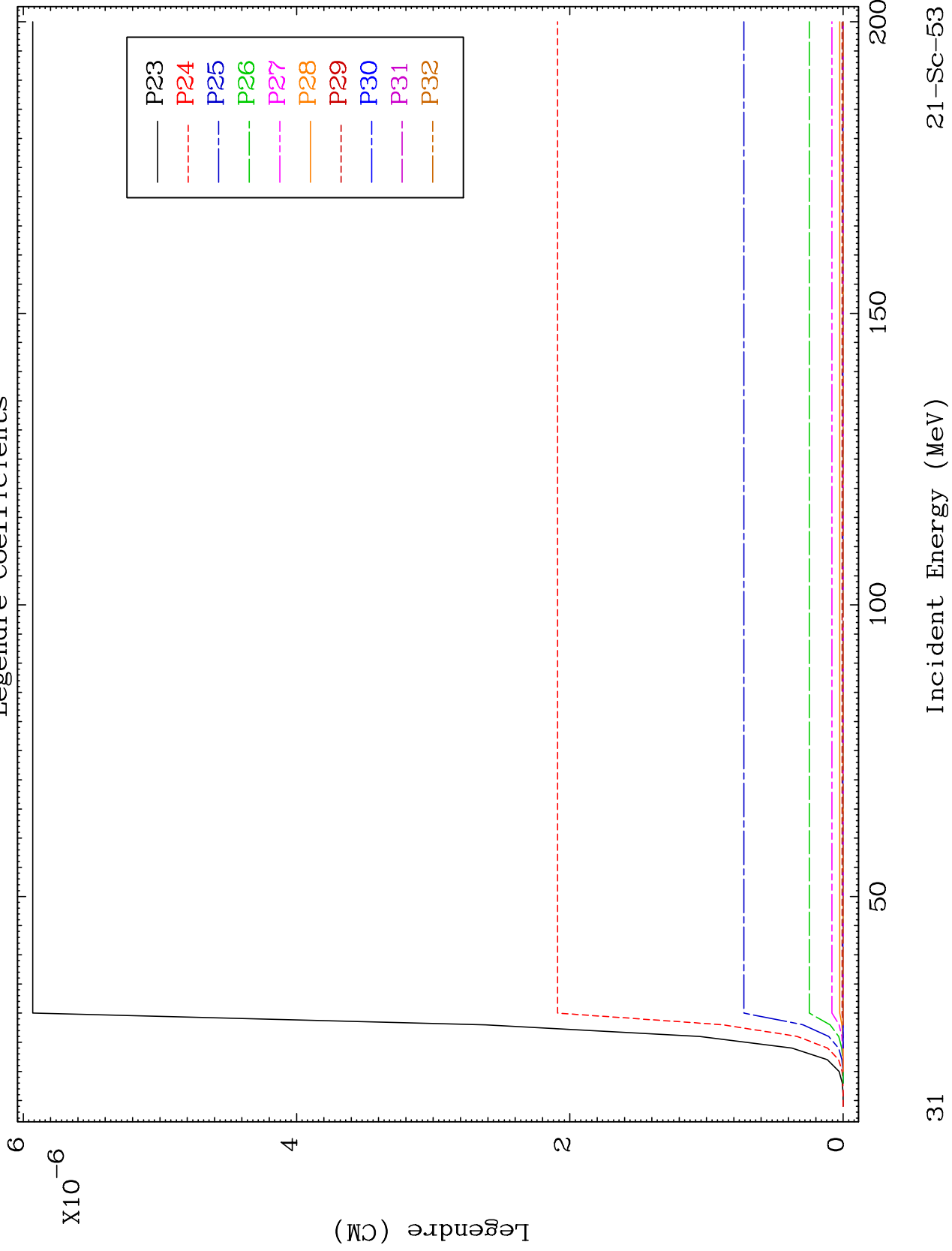
Incident Energy (MeV)

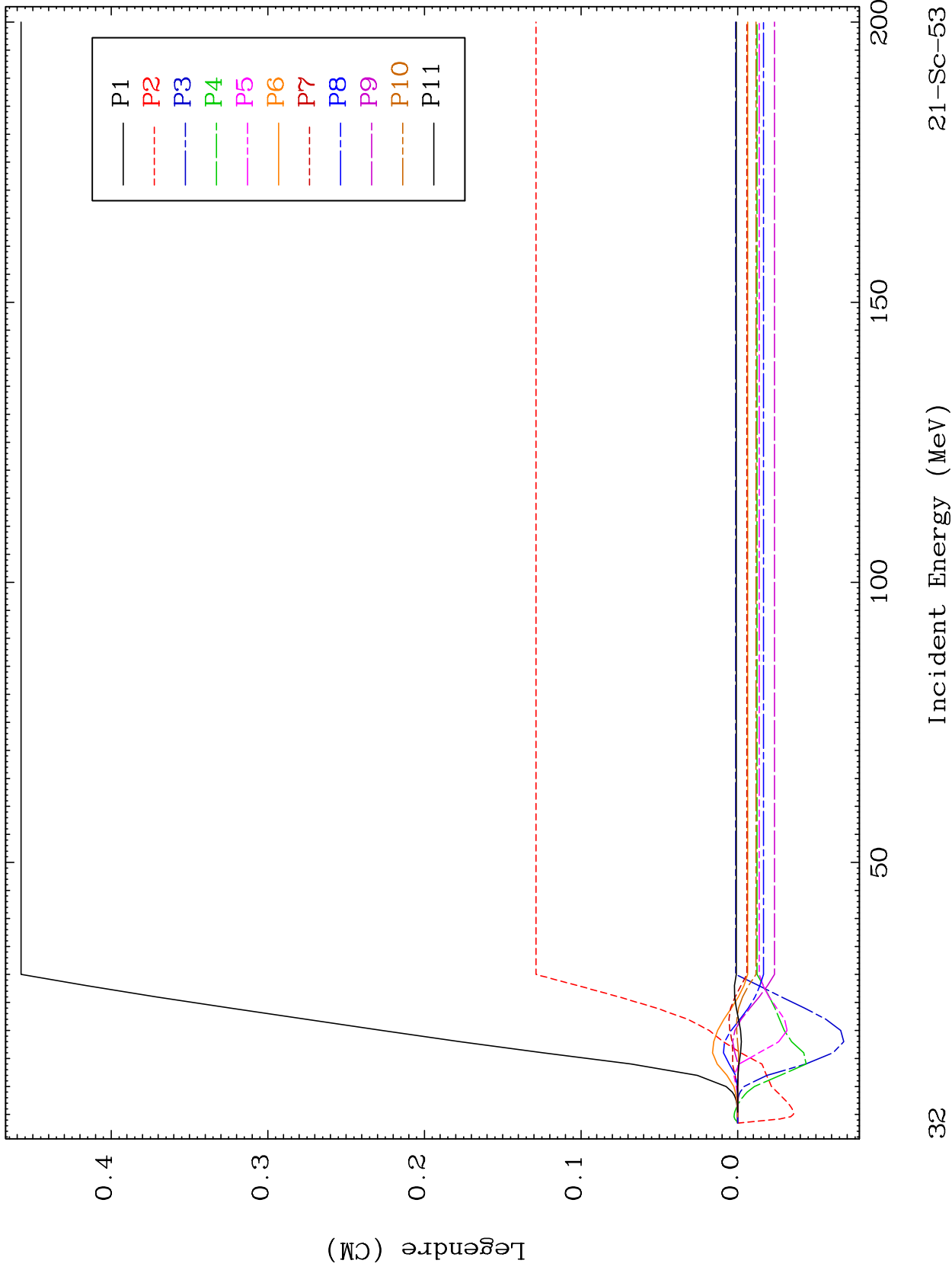
21-Sc-53

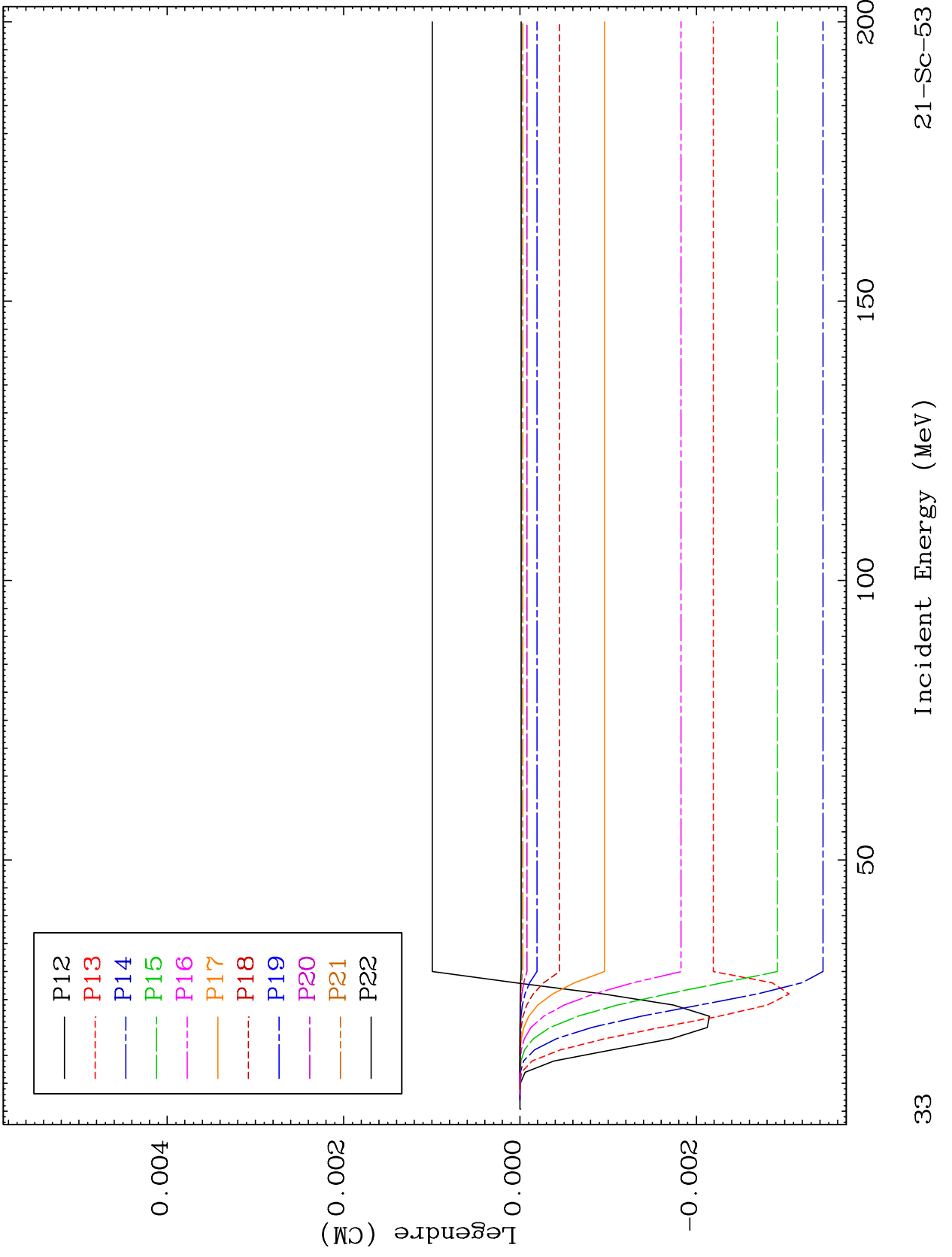
MAT 2149

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

21-Sc-53



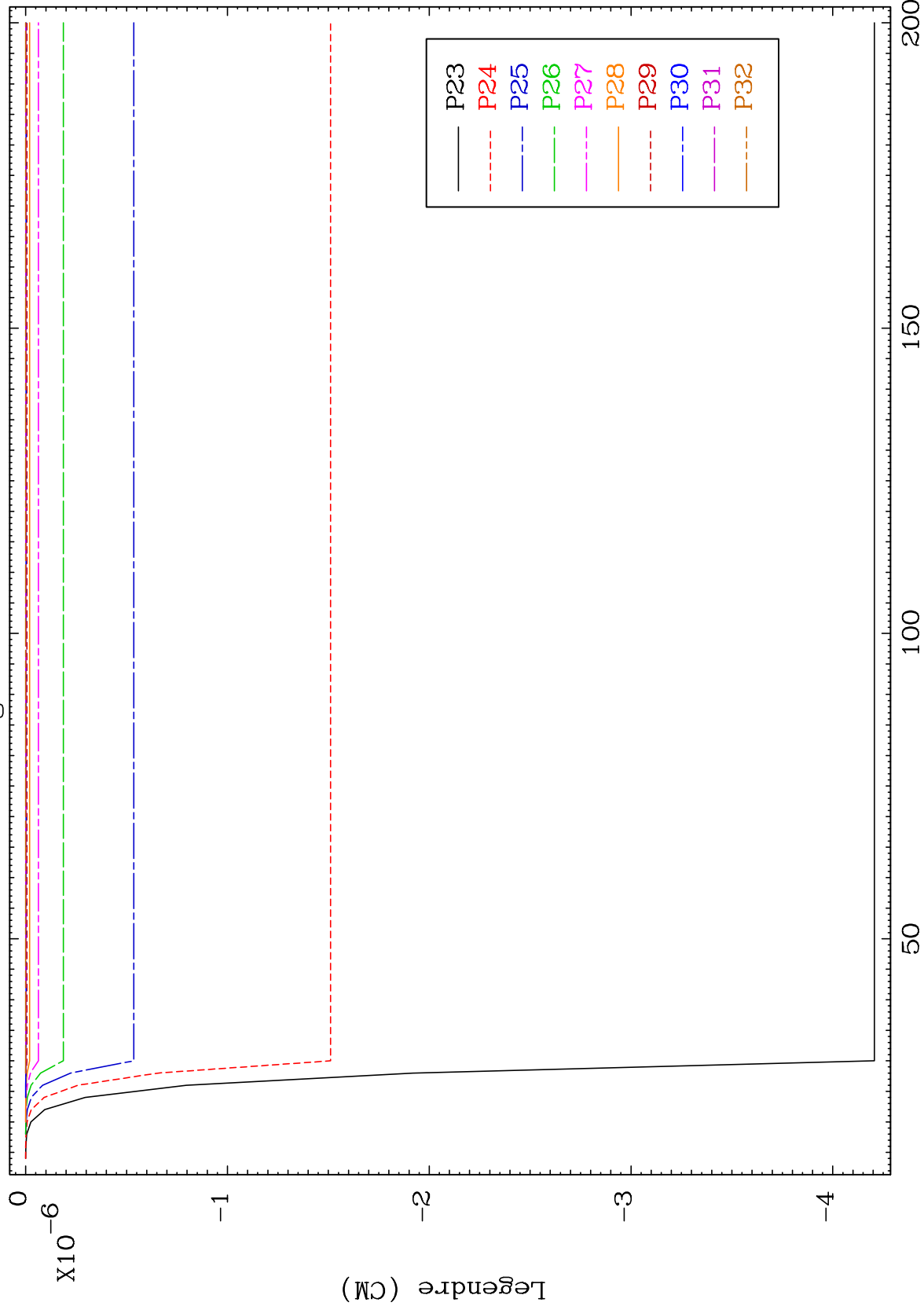




MAT 2149

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

21-Sc-53



34

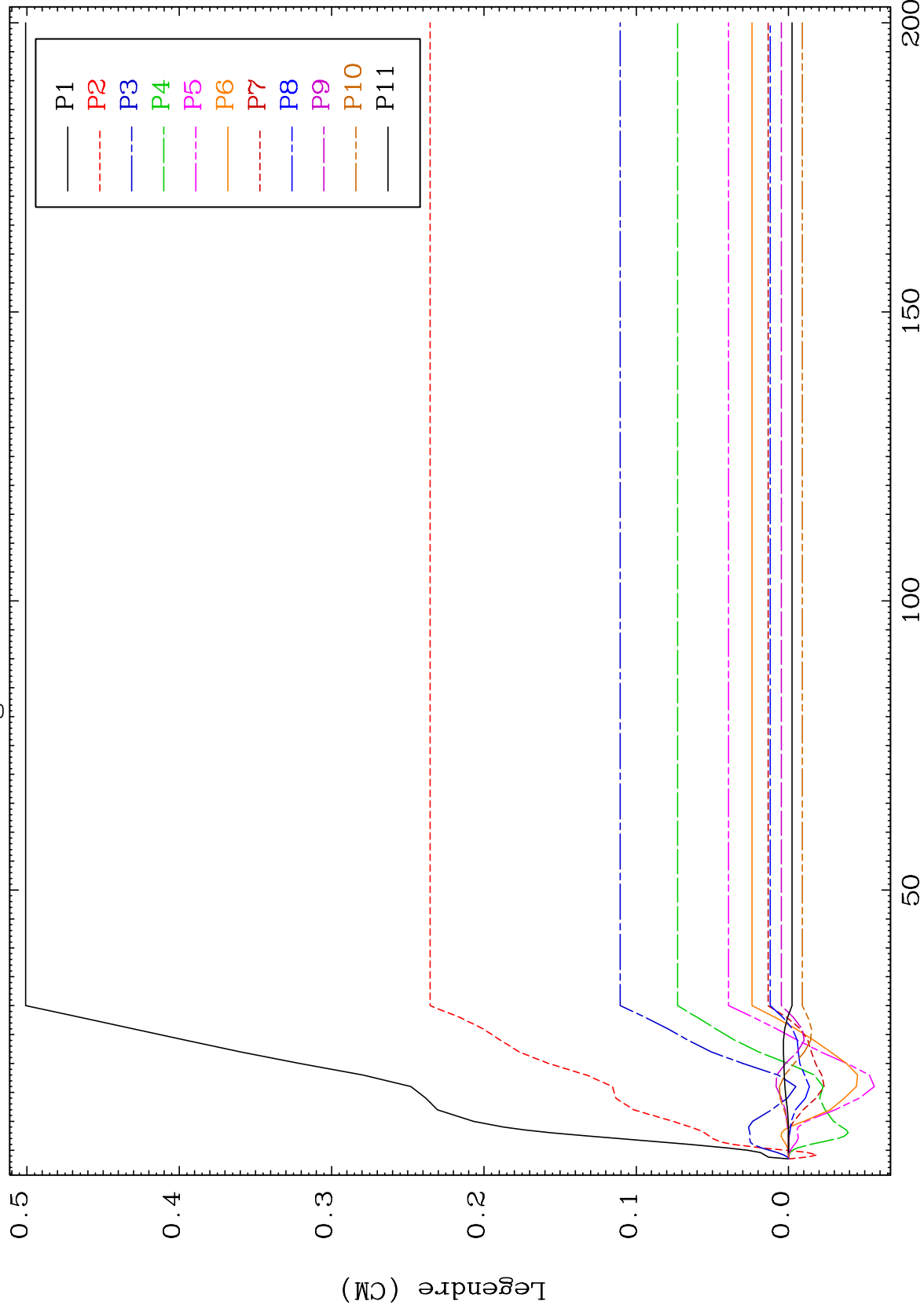
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

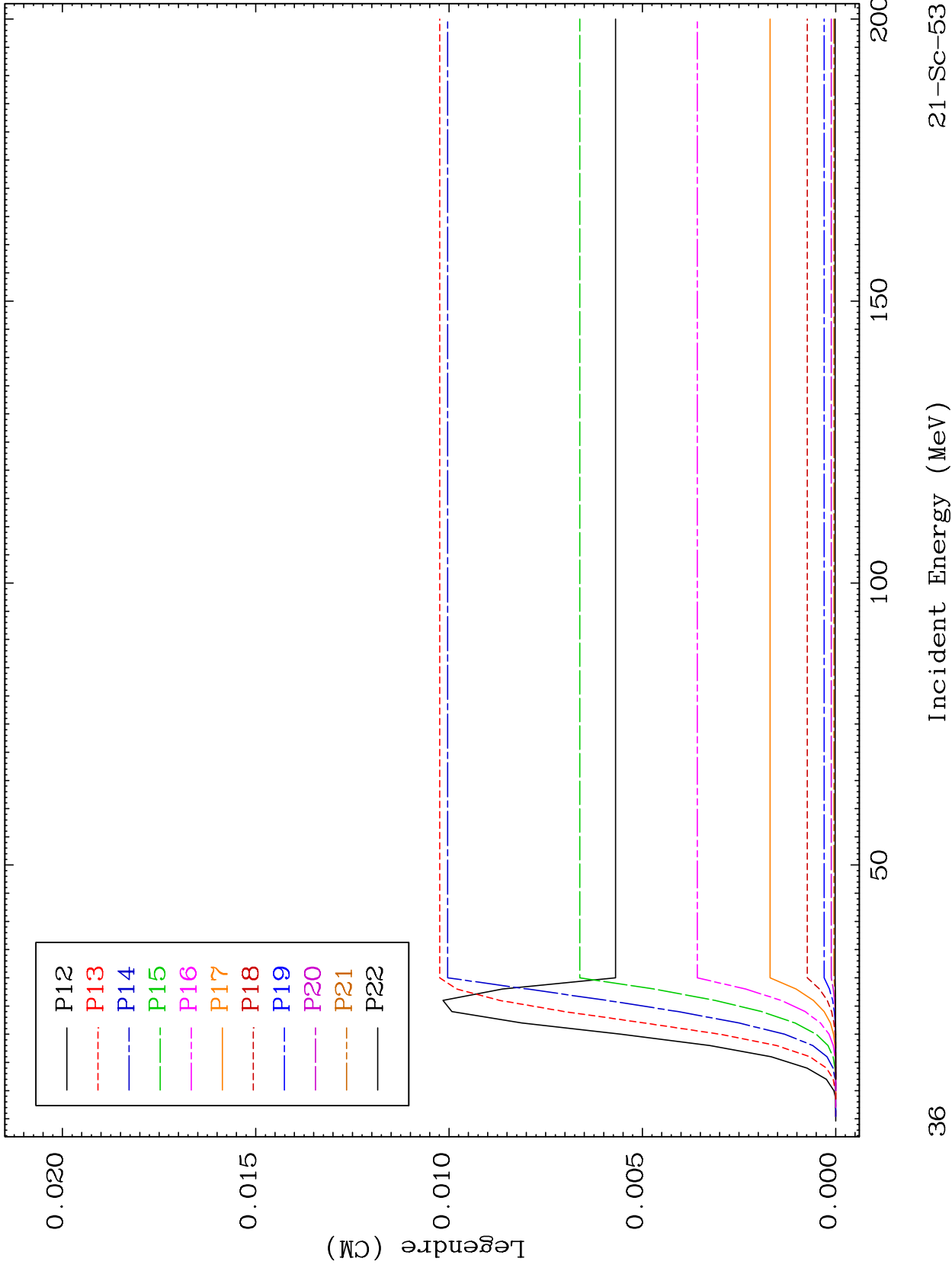
21-Sc-53



35

Incident Energy (MeV)

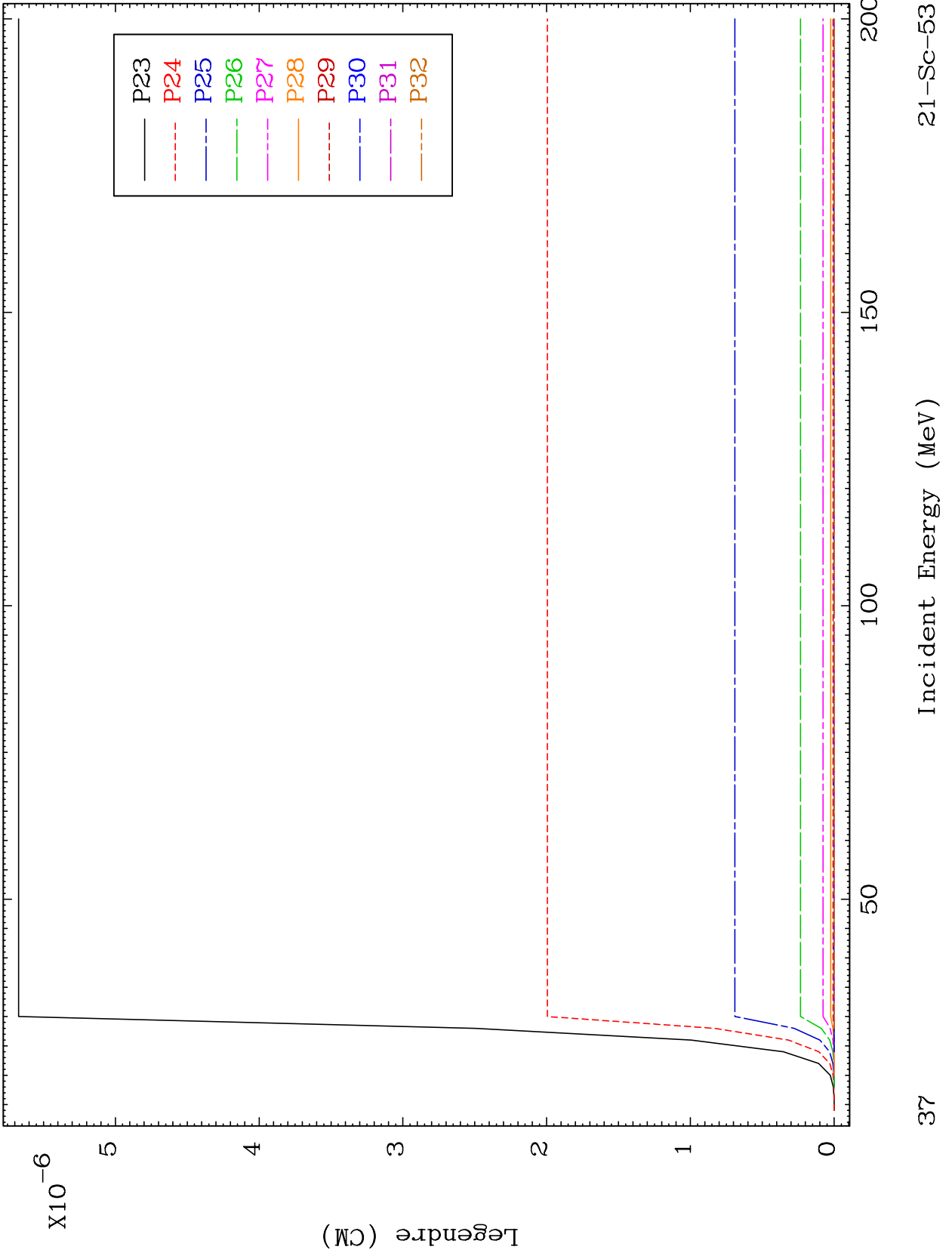
21-Sc-53



MAT 2149

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

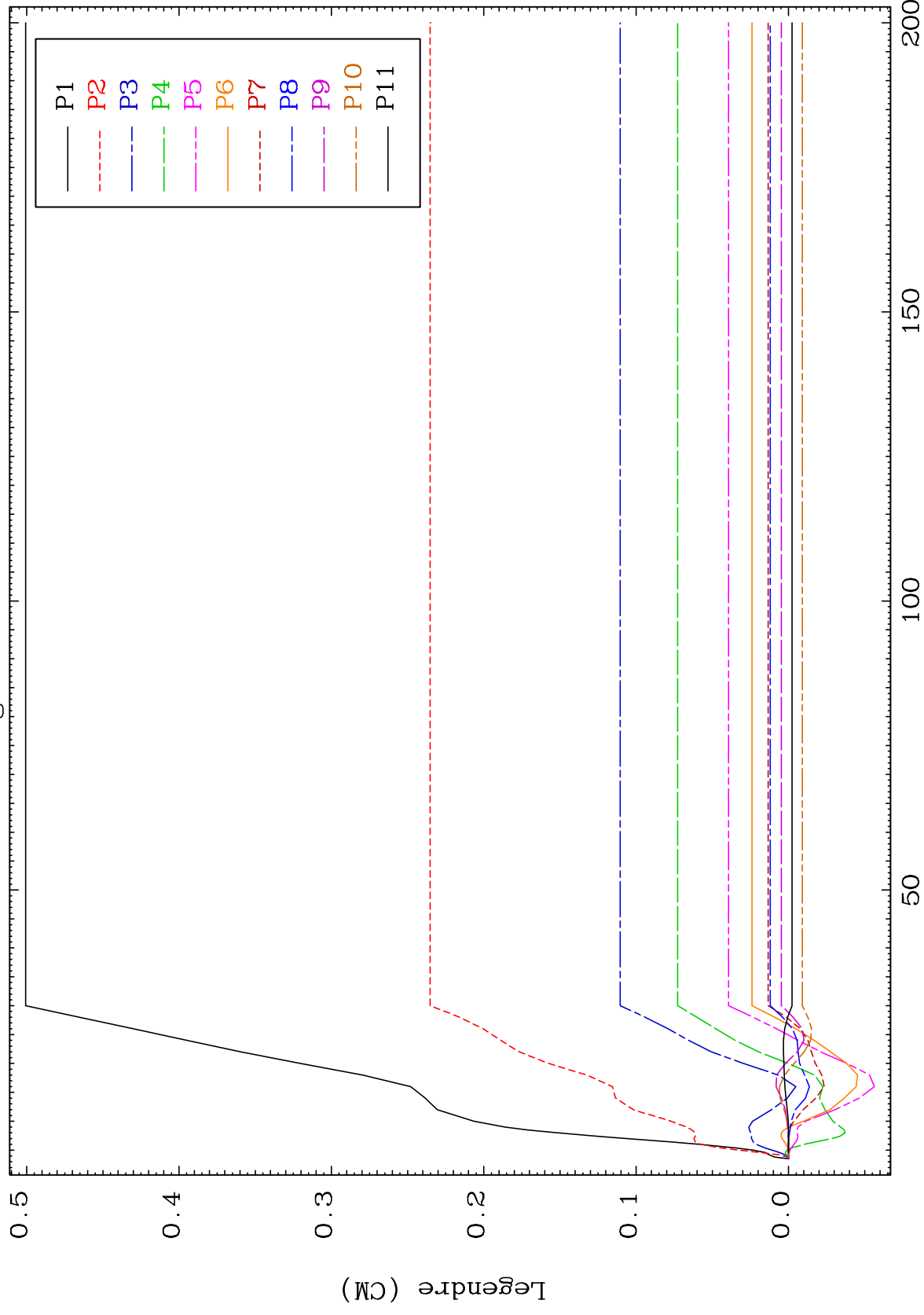
21-Sc-53

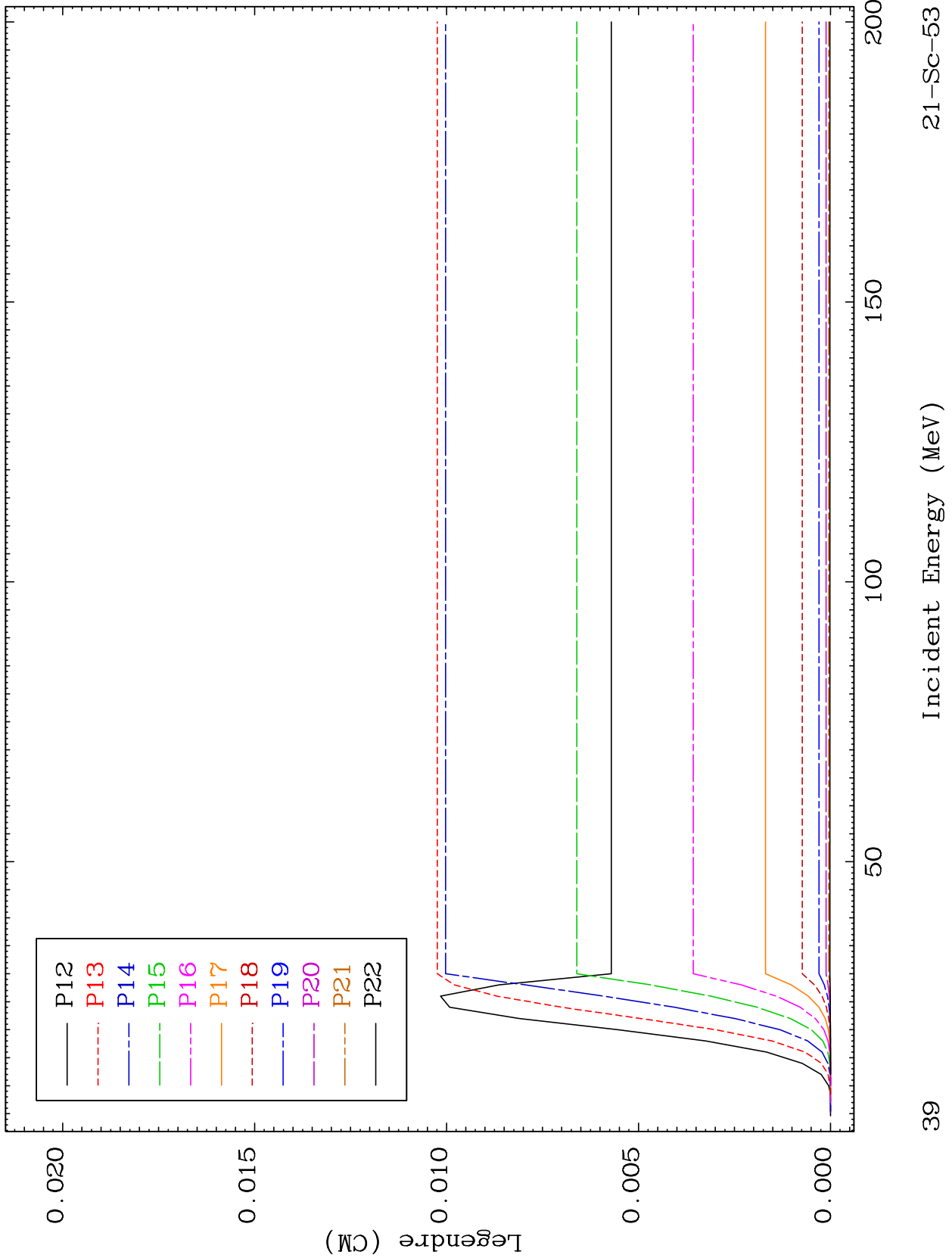


37

Incident Energy (MeV)

21-Sc-53

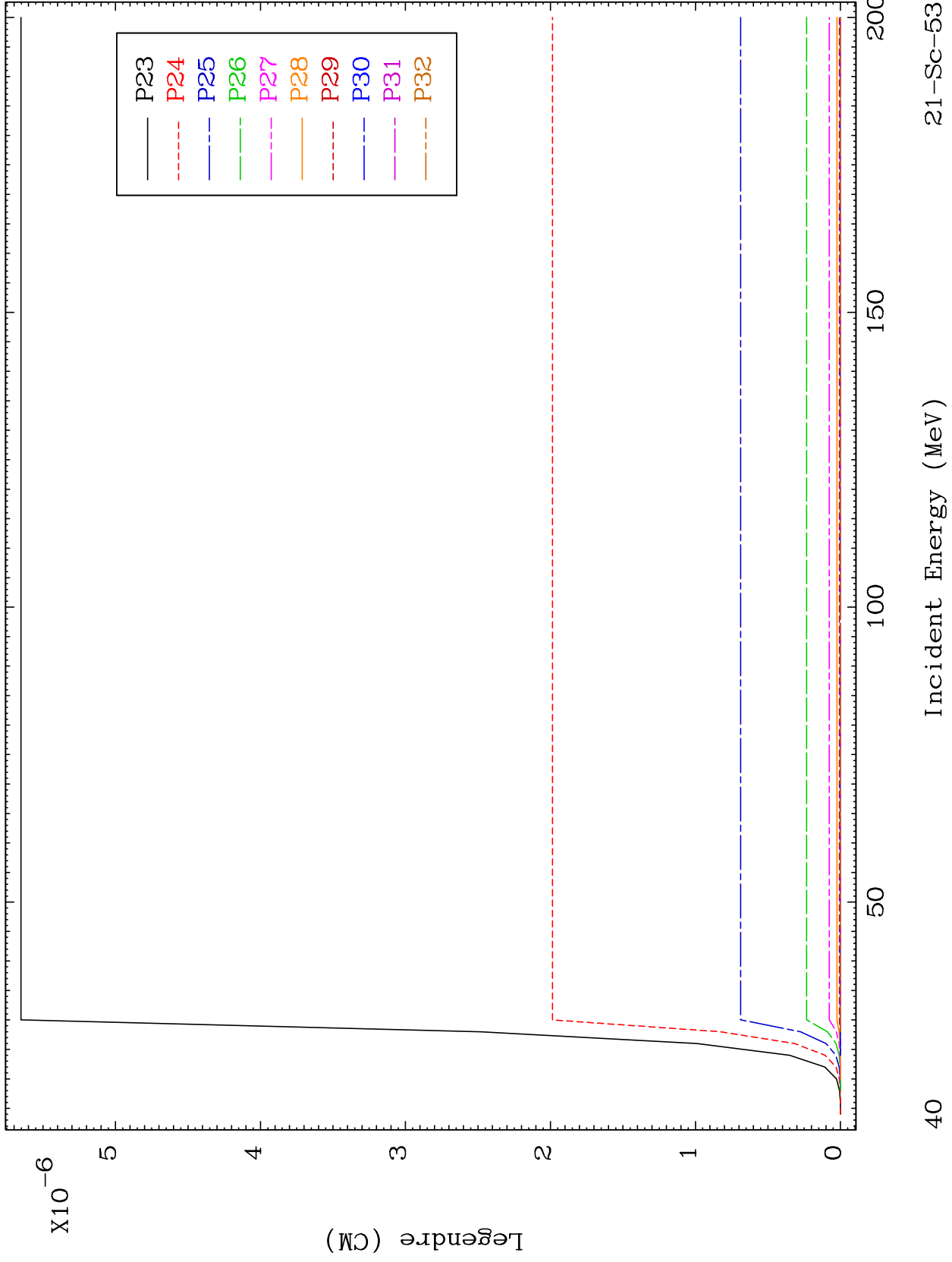




MAT 2149

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

21-Sc-53



40

50

100

150

200

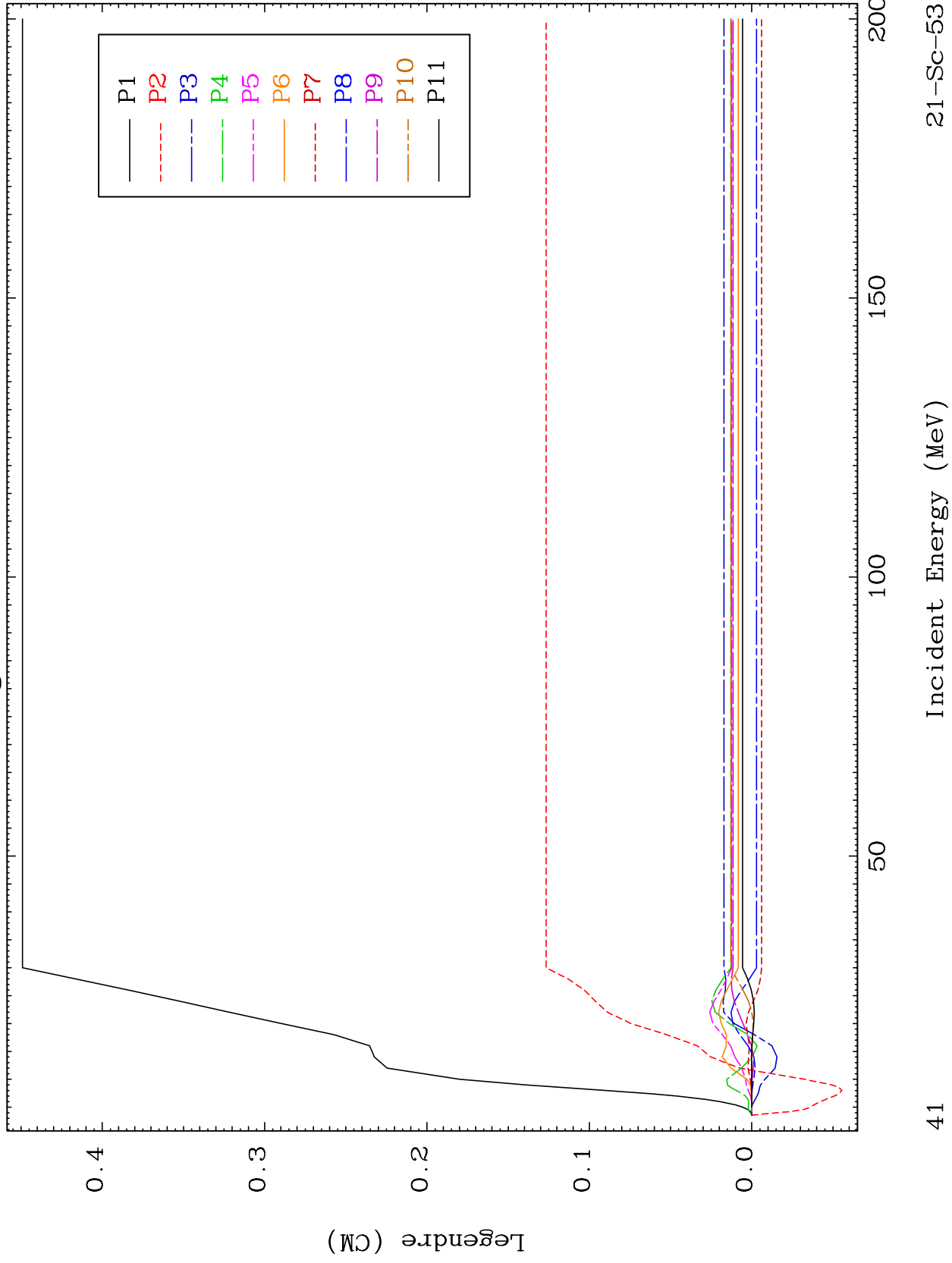
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



41

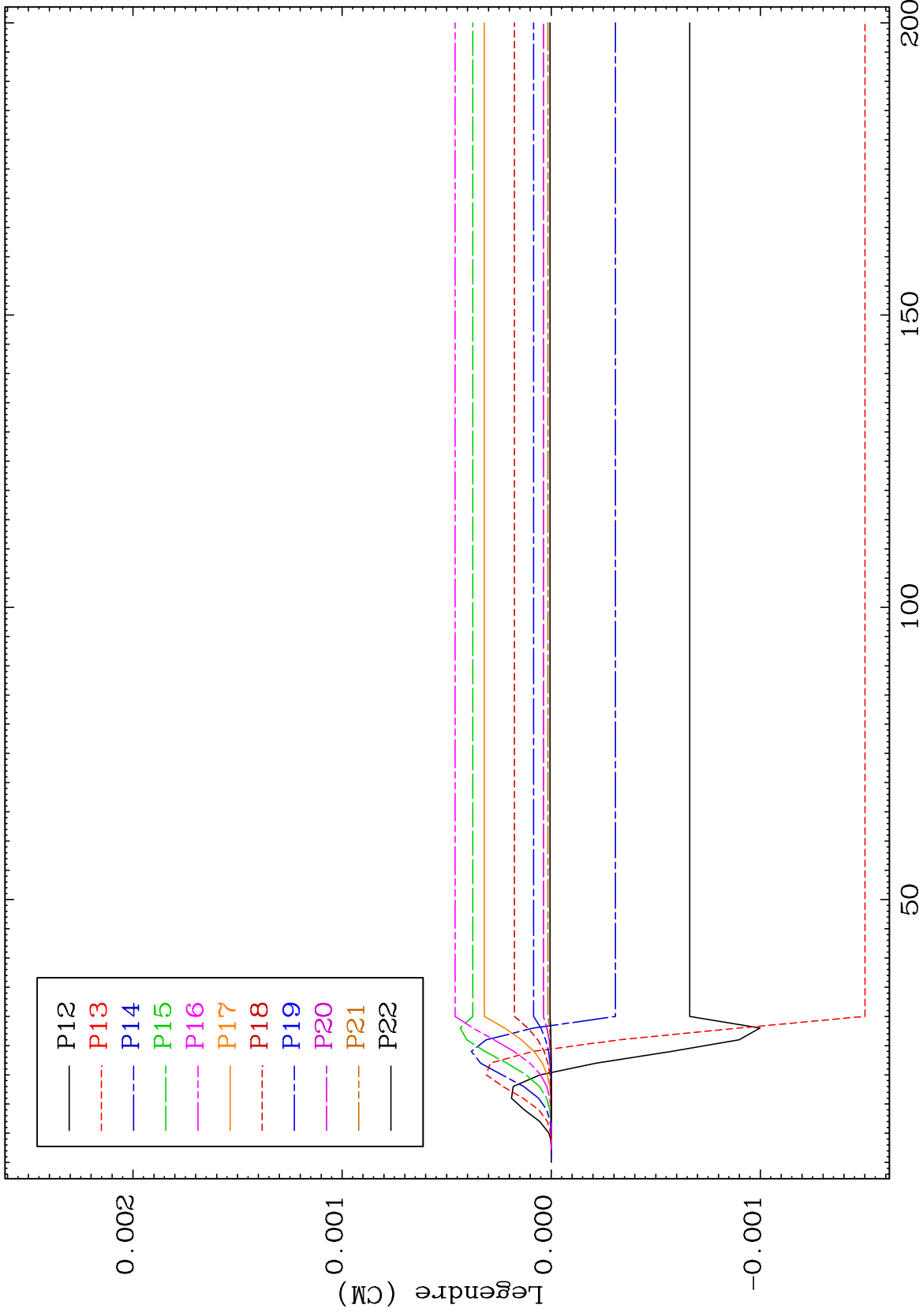
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

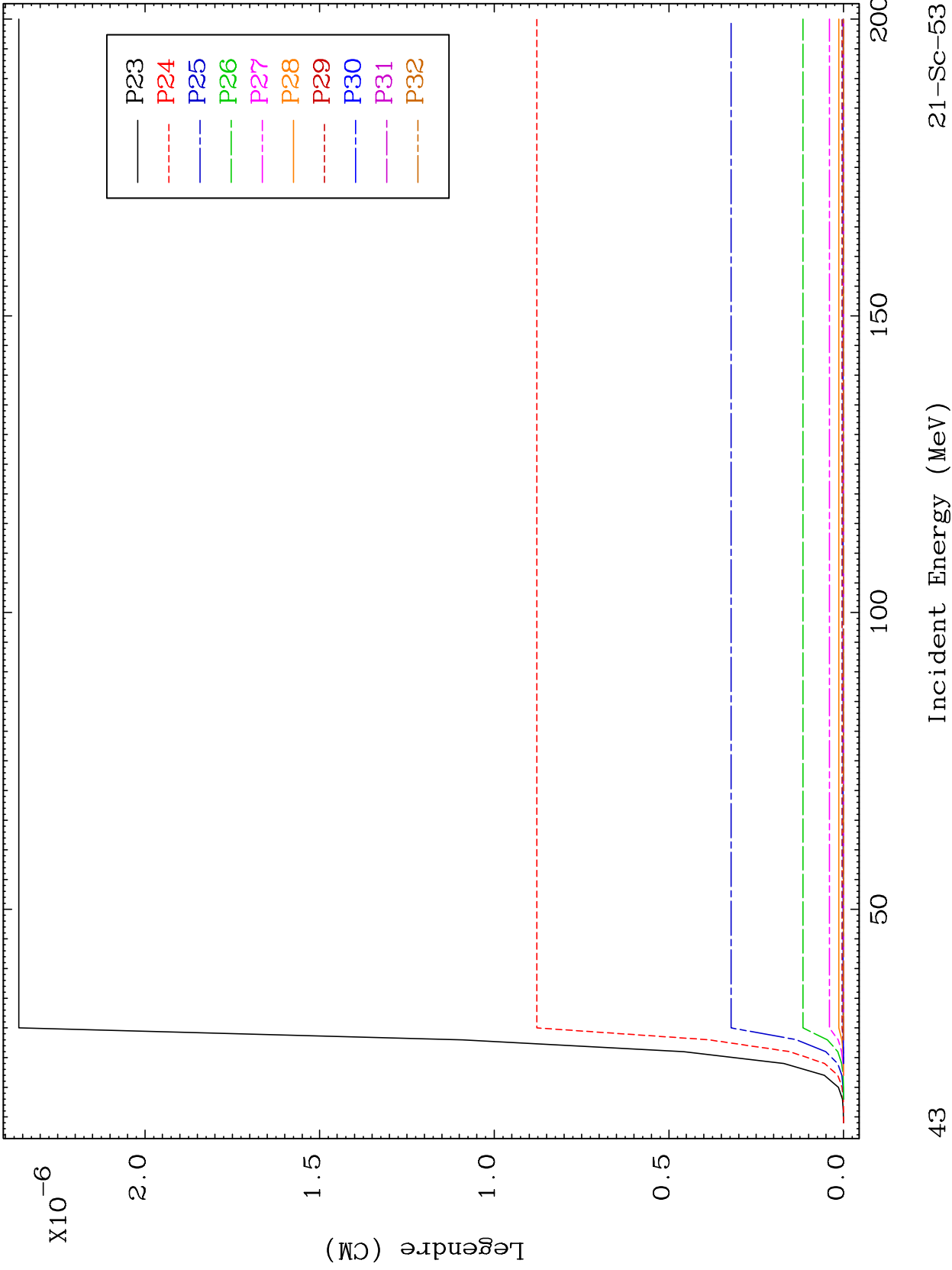
21-Sc-53



MAT 2149

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

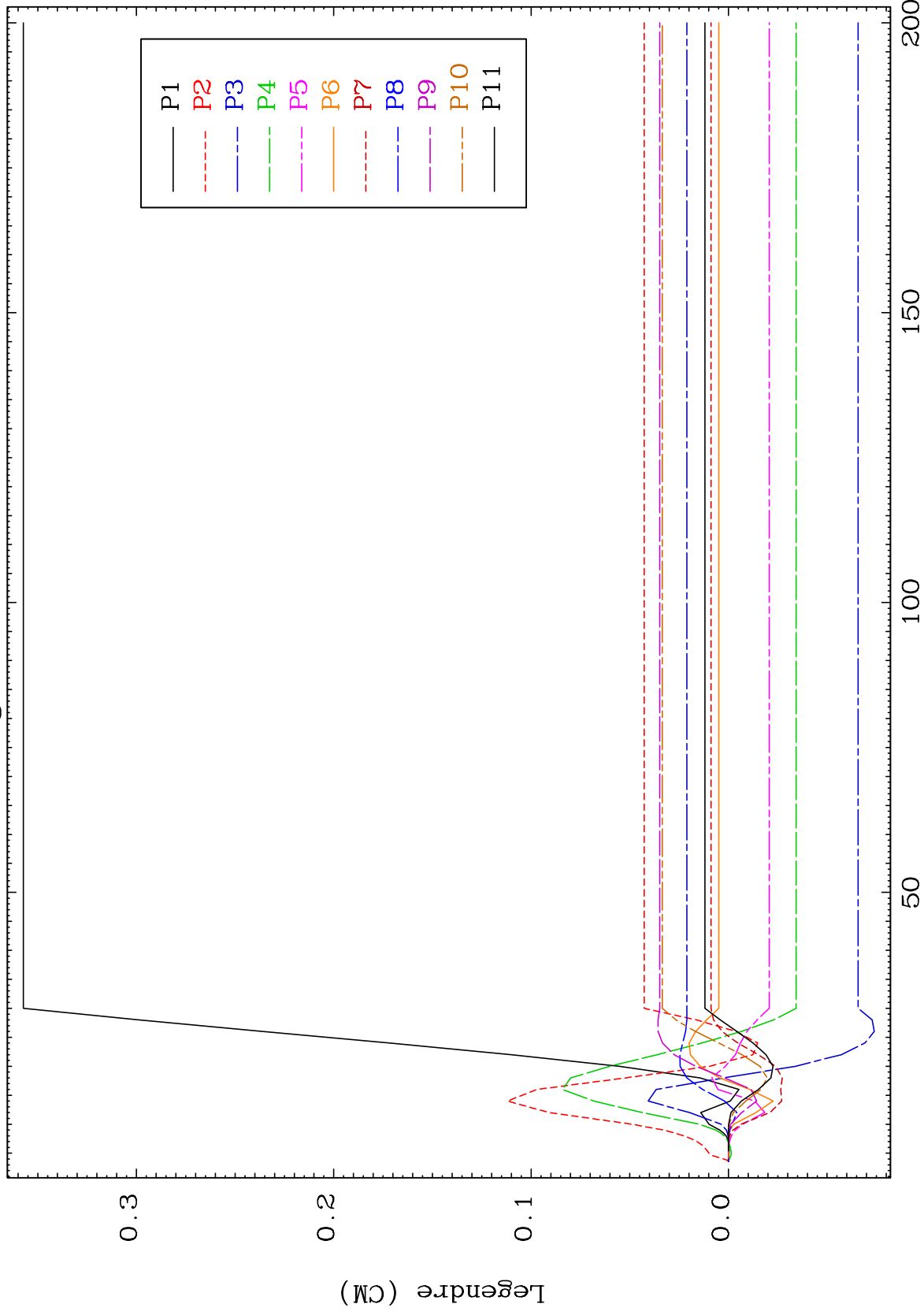
21-Sc-53



MAT 2149

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

21-Sc-53



44

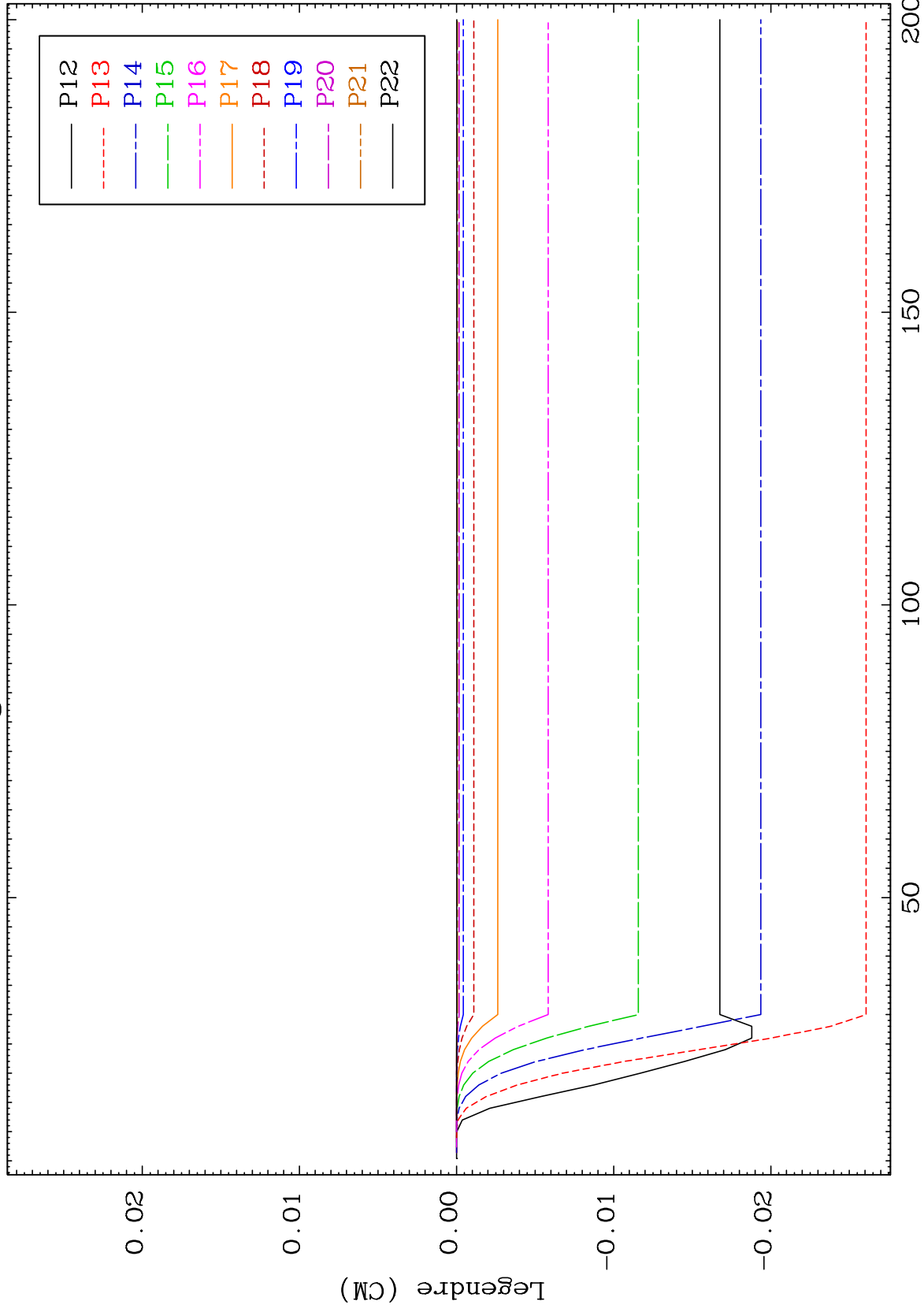
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



45

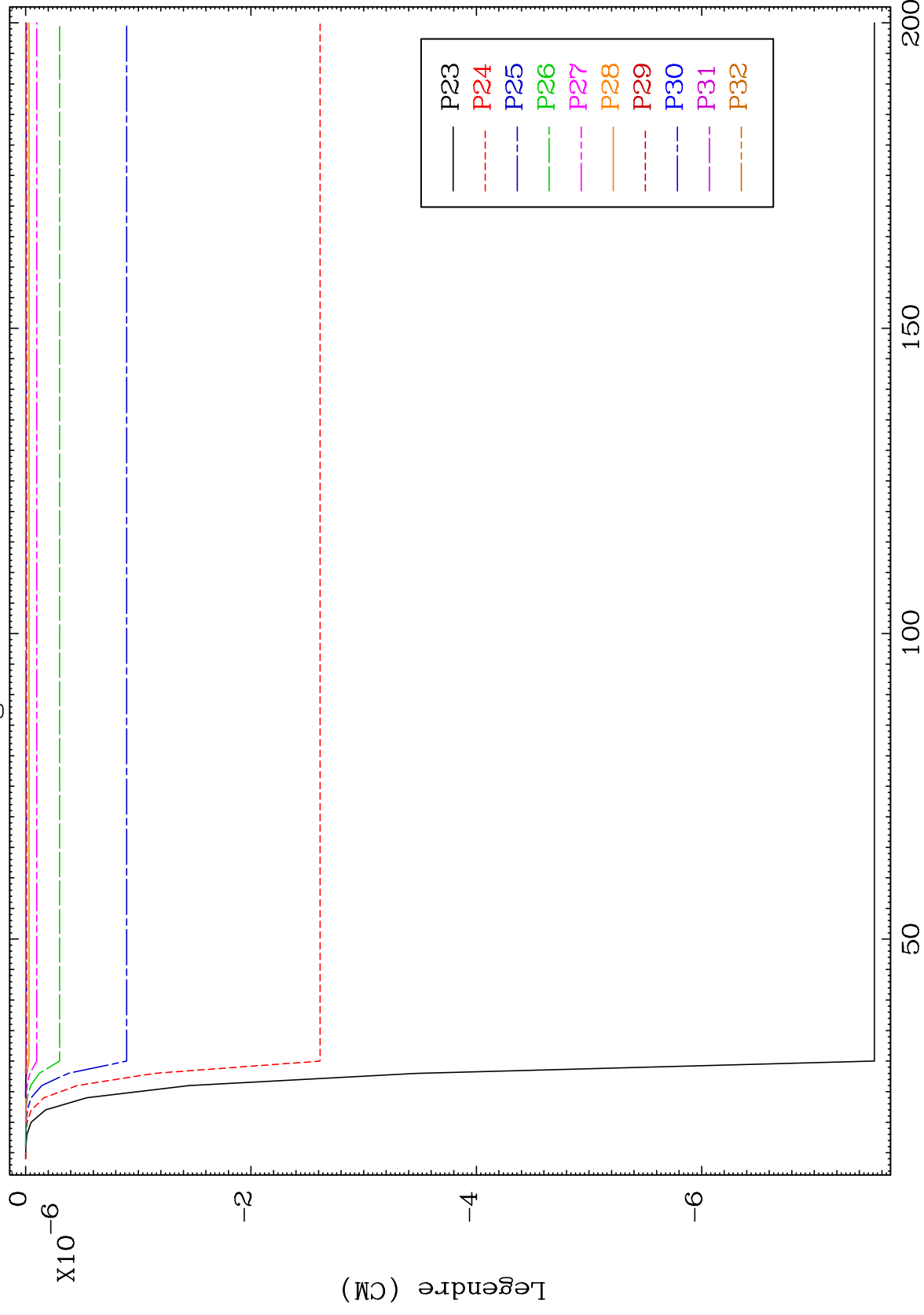
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

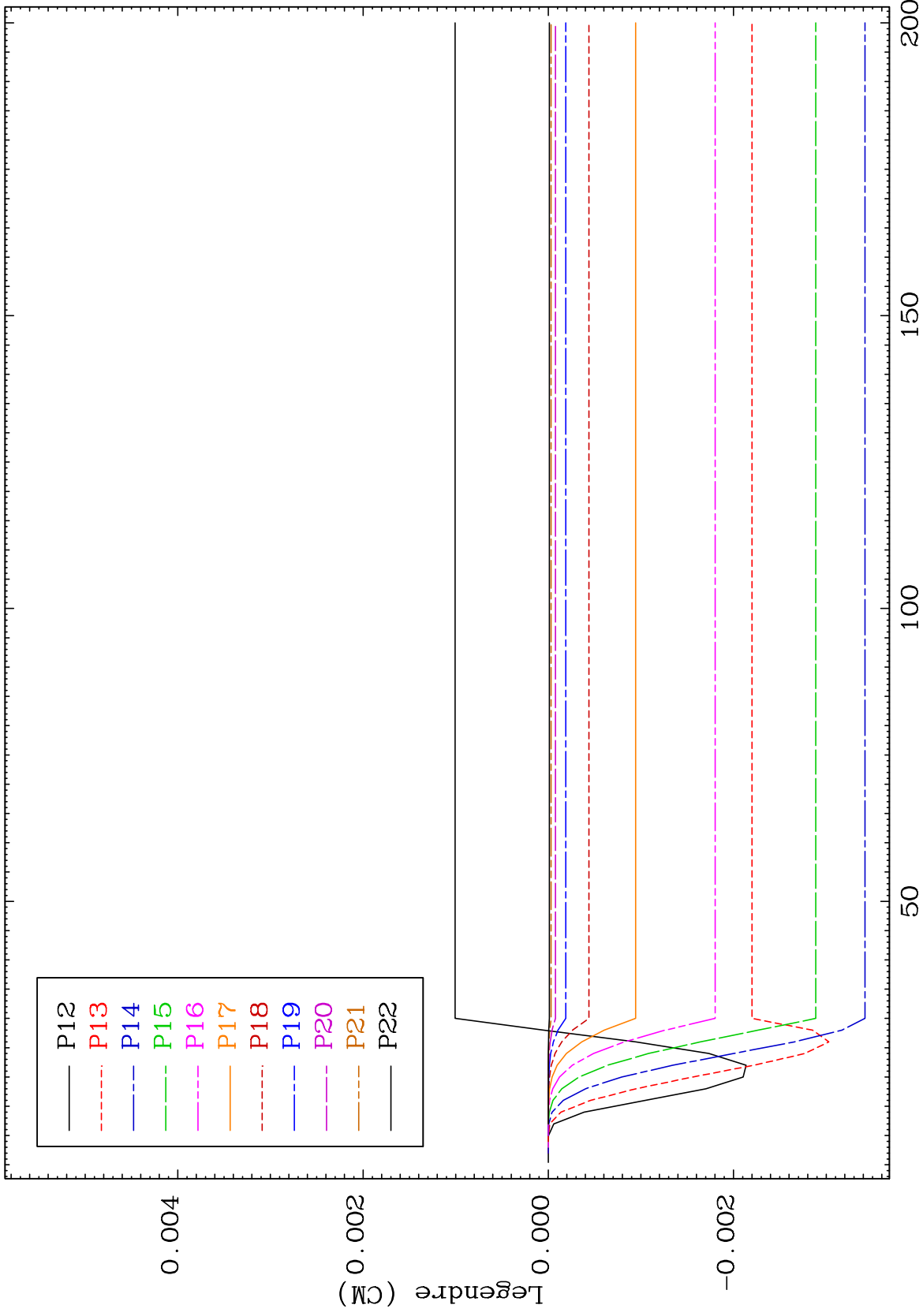
21-Sc-53



46

Incident Energy (MeV)

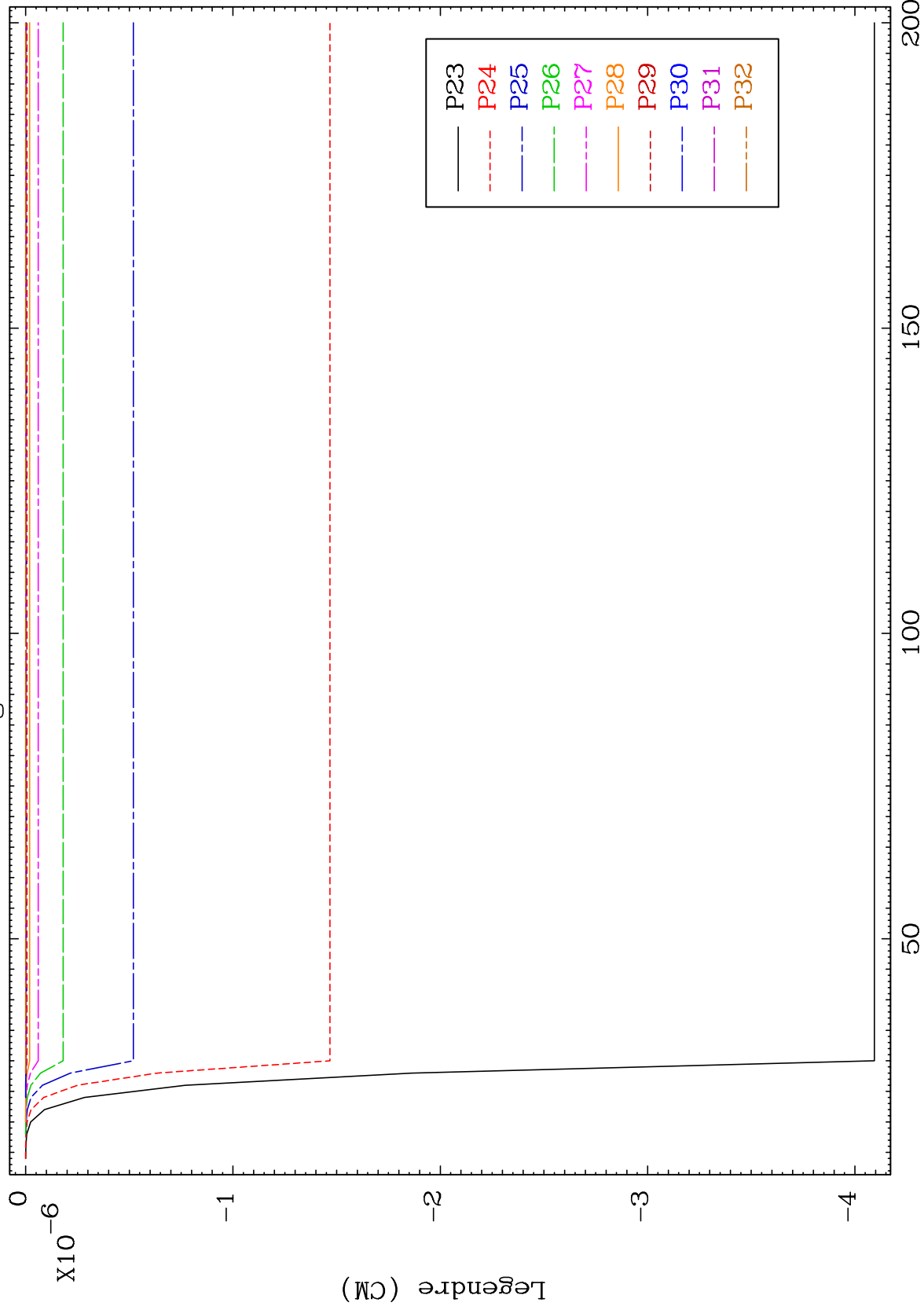
21-Sc-53



MAT 2149

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

21-Sc-53



49

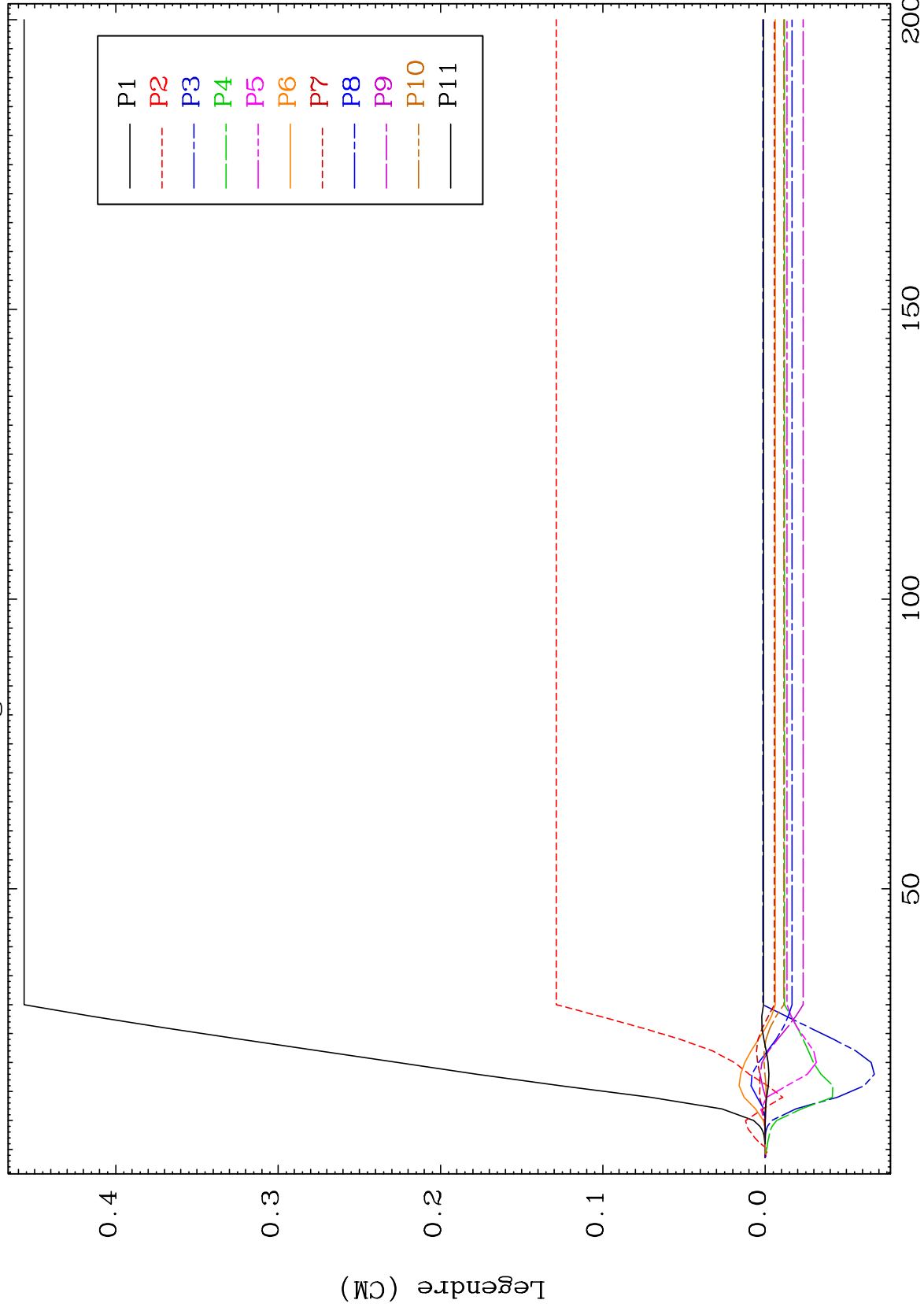
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

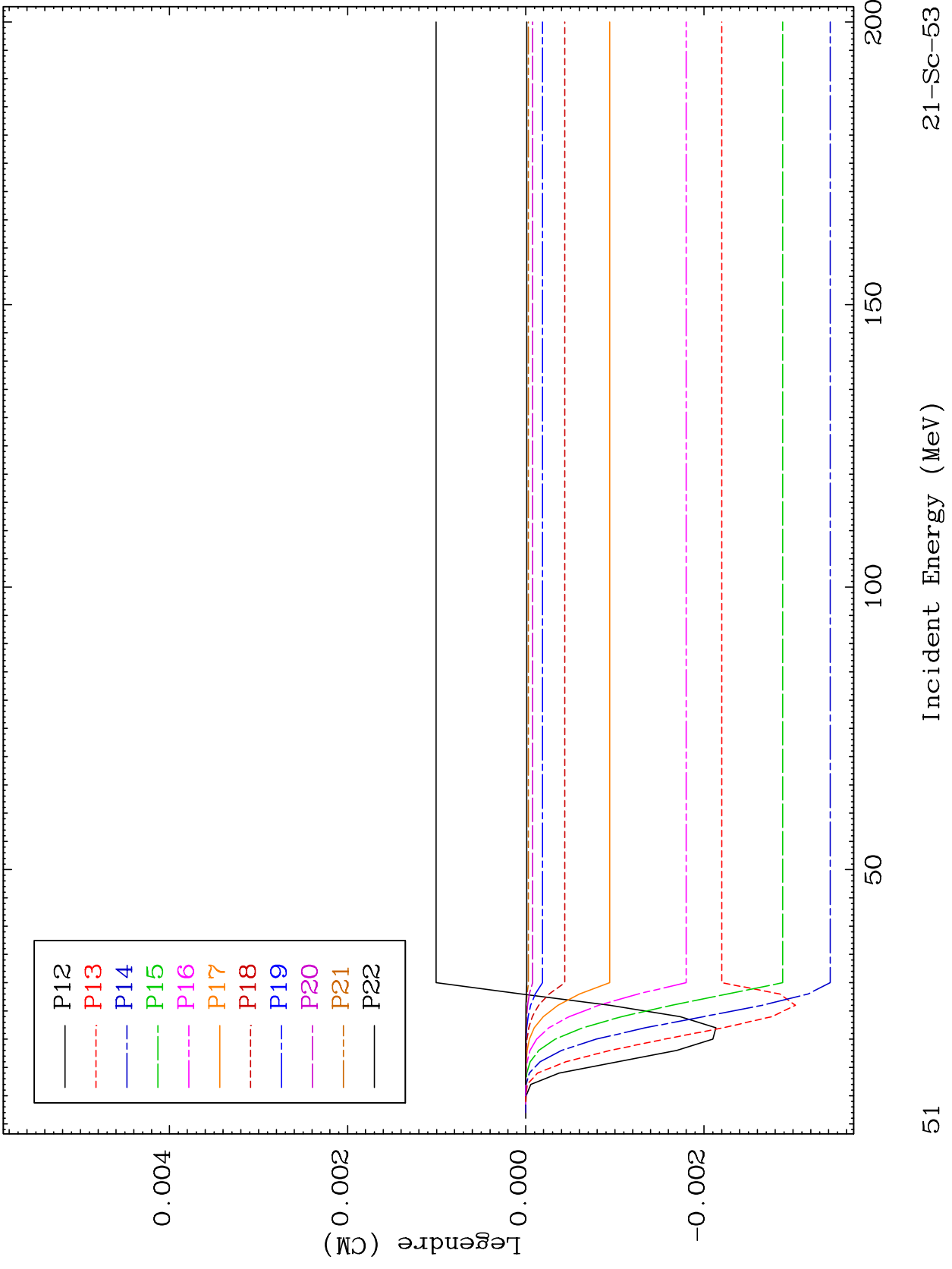
21-Sc-53



50

Incident Energy (MeV)

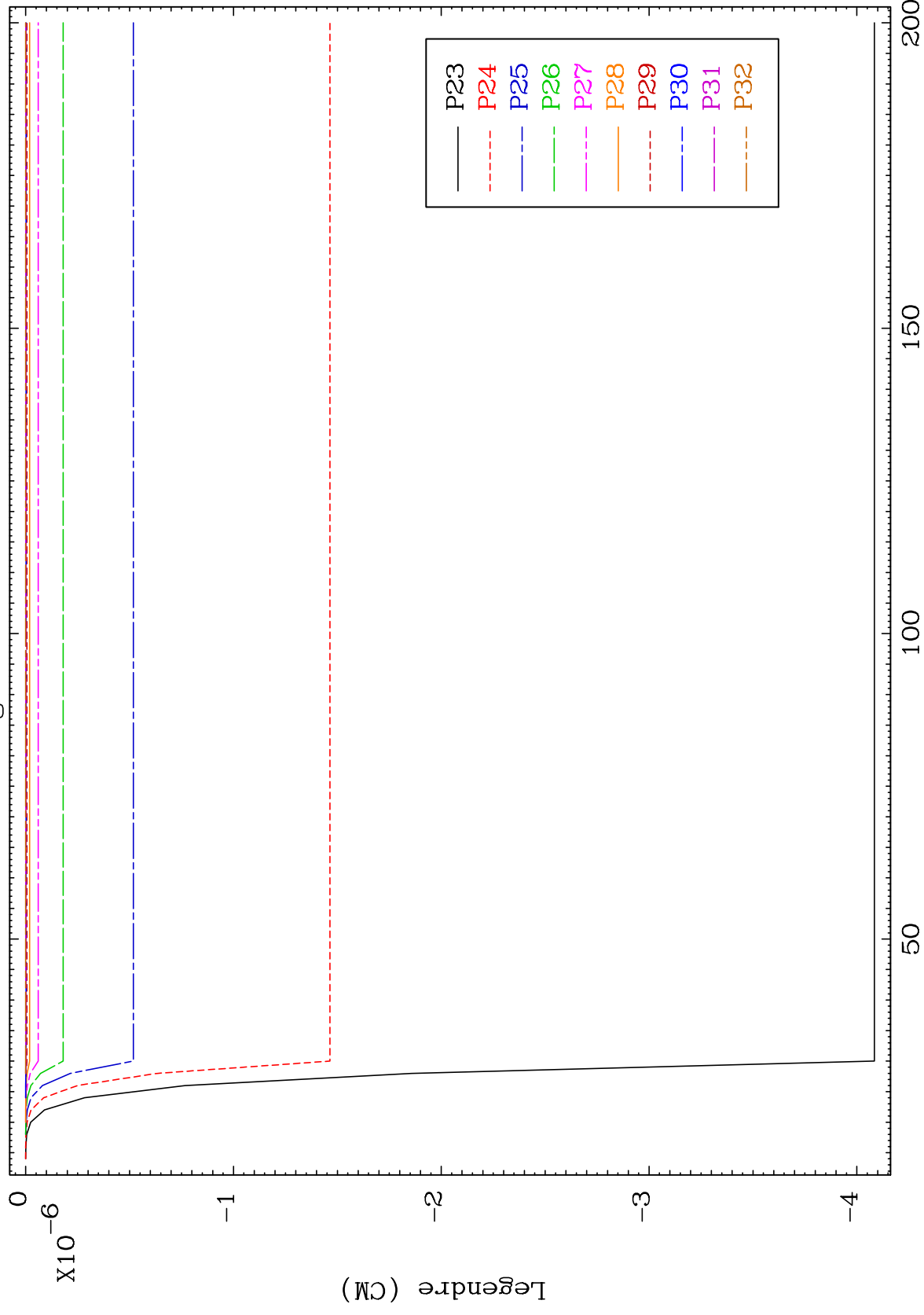
21-Sc-53



MAT 2149

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

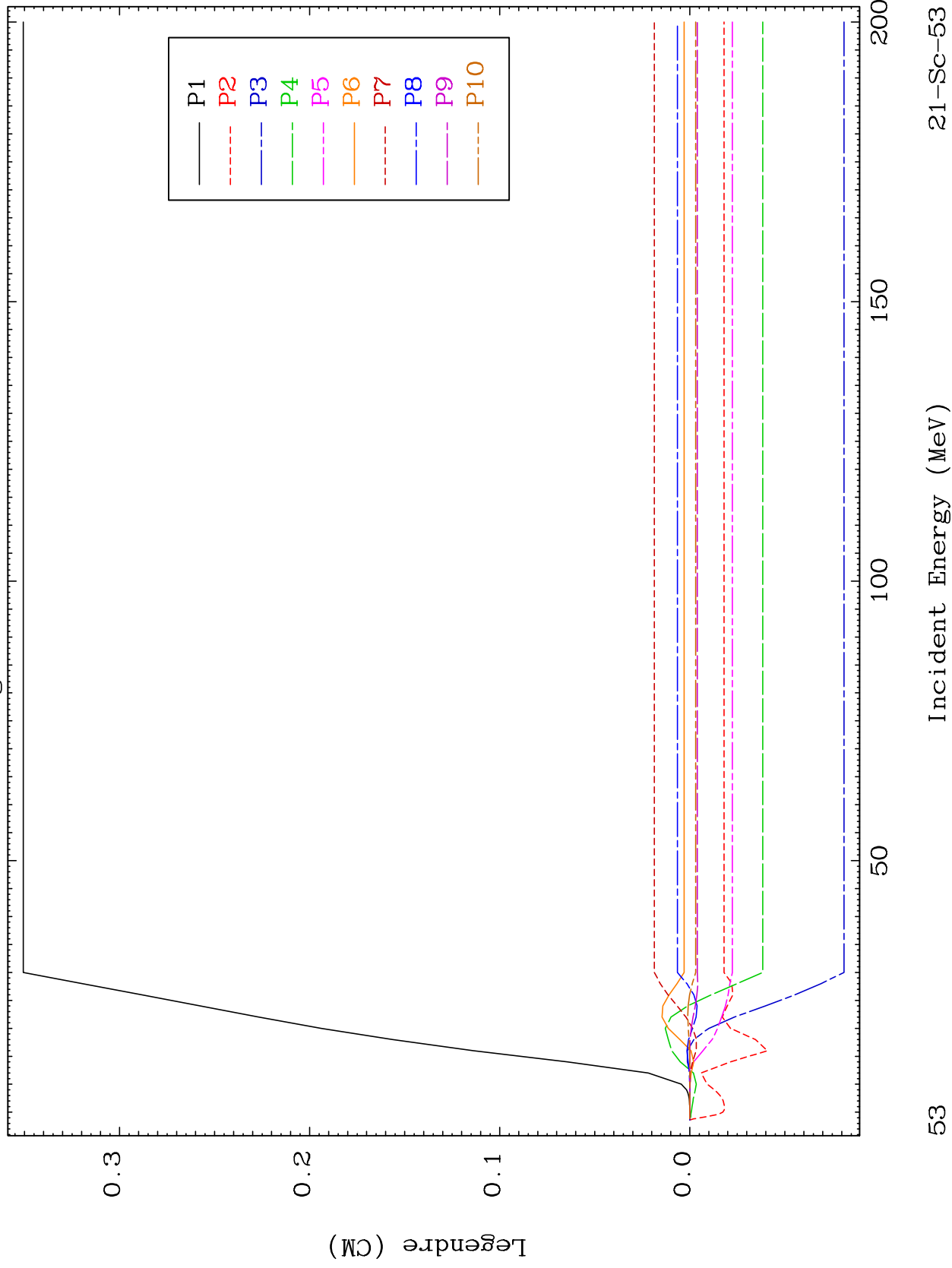
21-Sc-53

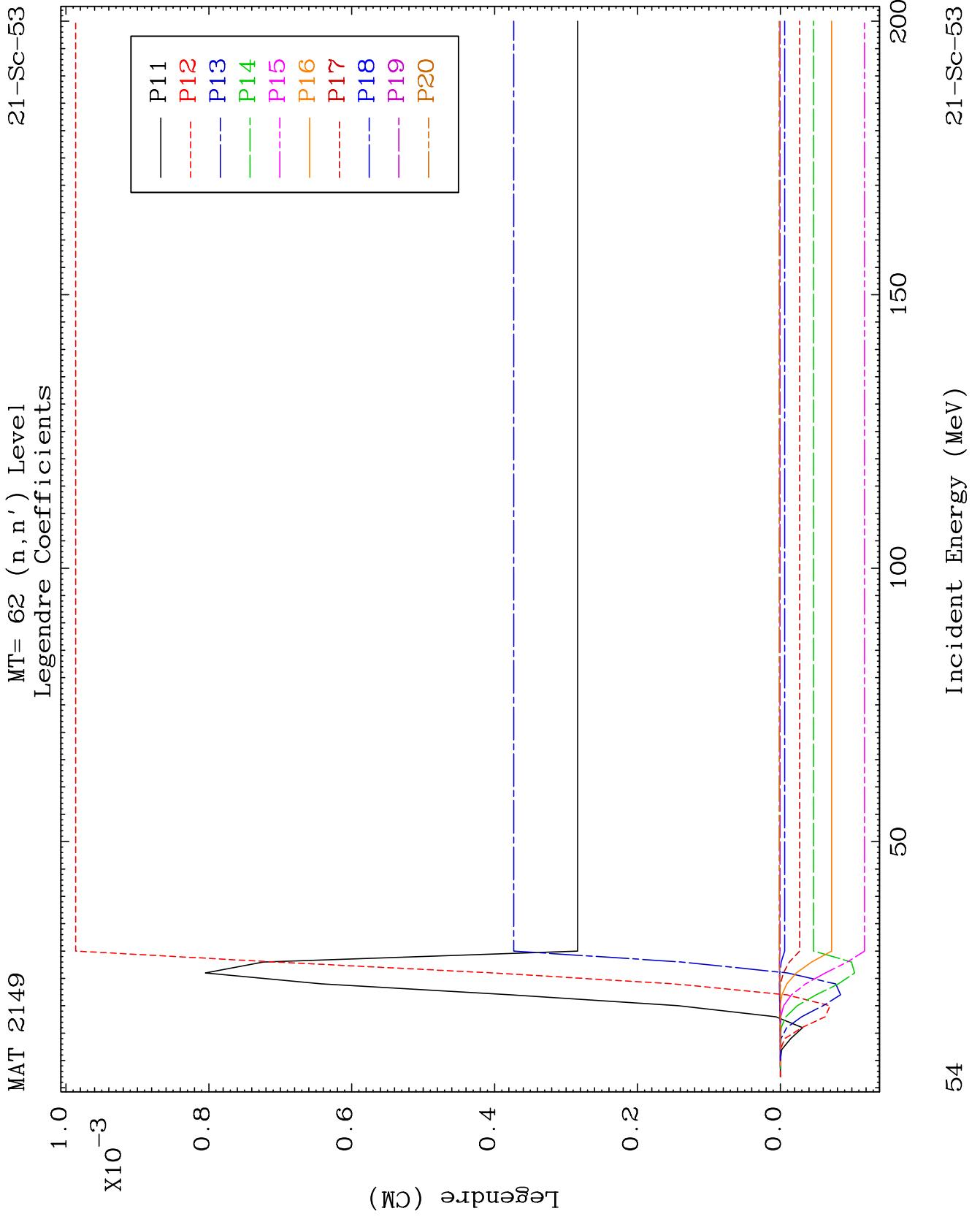


52

Incident Energy (MeV)

21-Sc-53

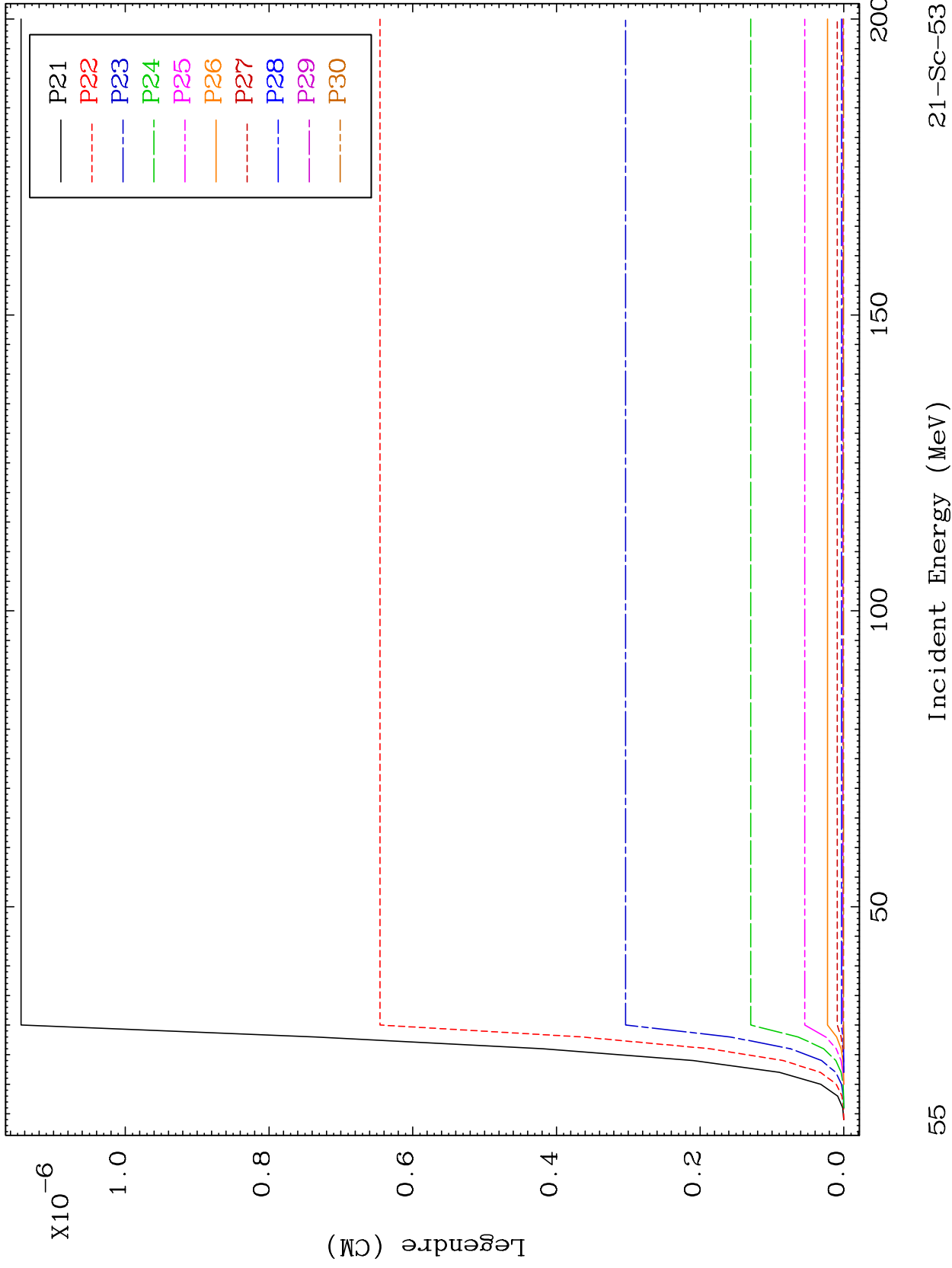




MAT 2149

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

21-Sc-53



55

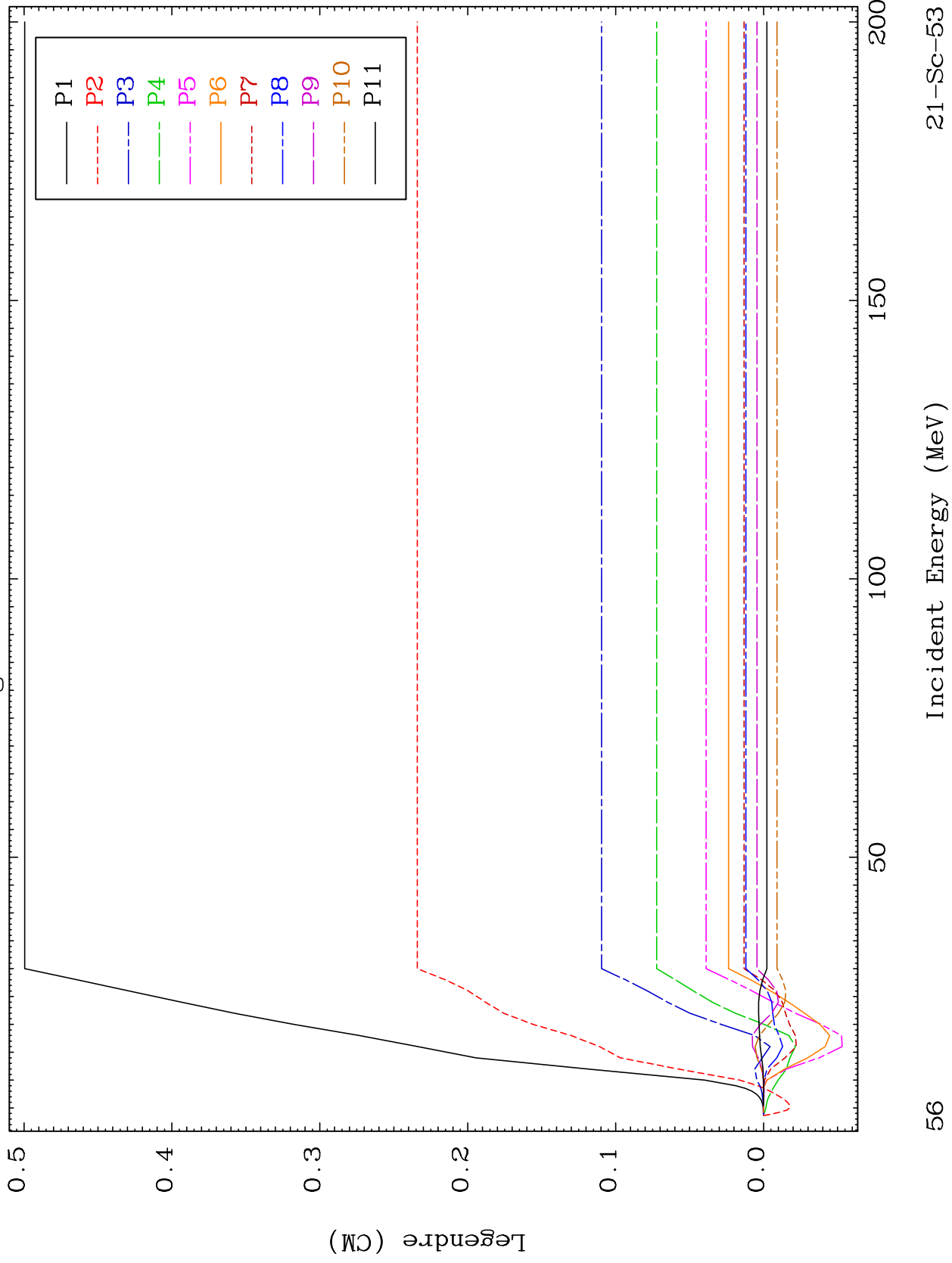
Incident Energy (MeV)

21-Sc-53

MAT 2149

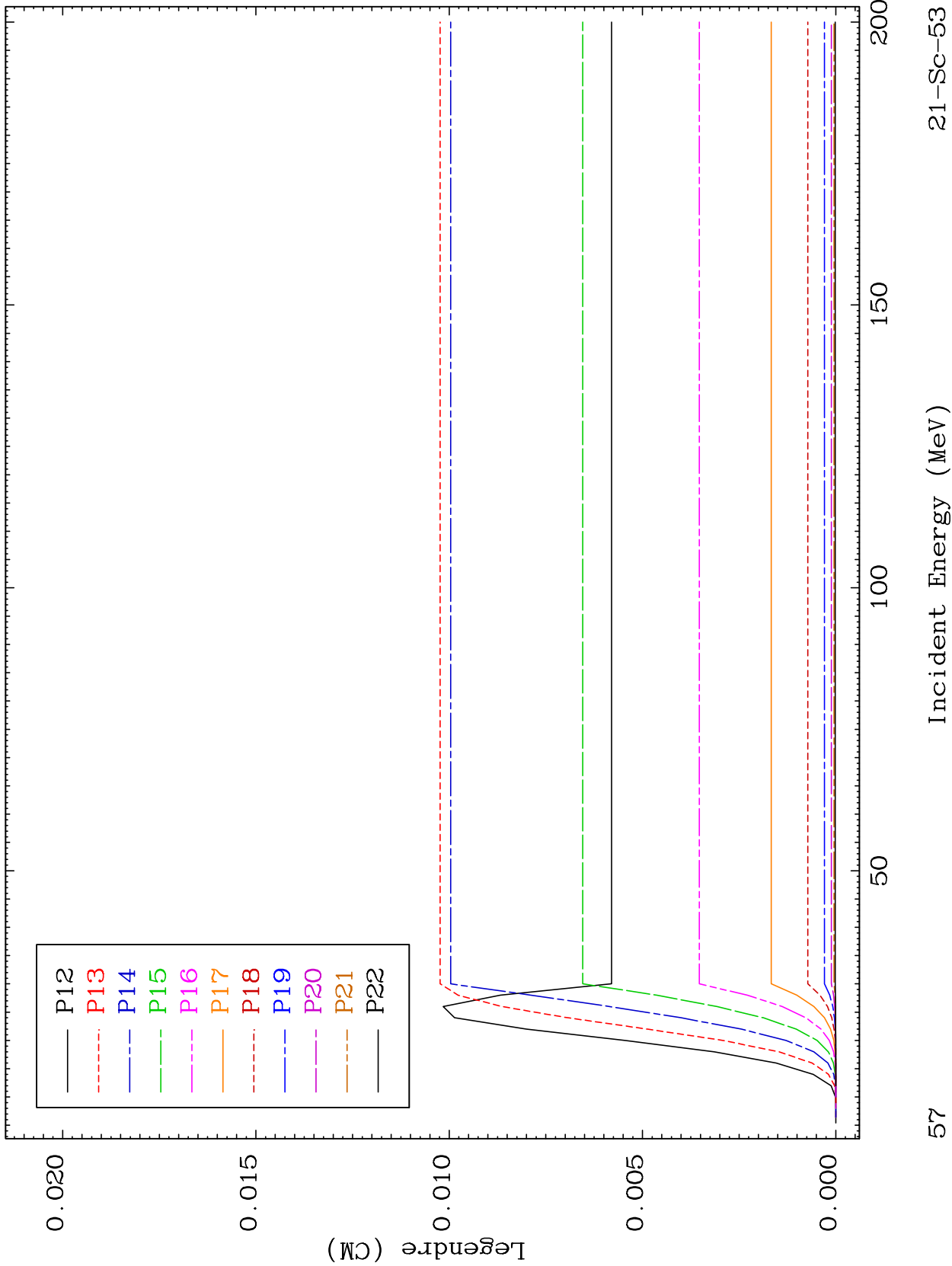
MT= 63 (n,n') Level
Legendre Coefficients

21-Sc-53



56

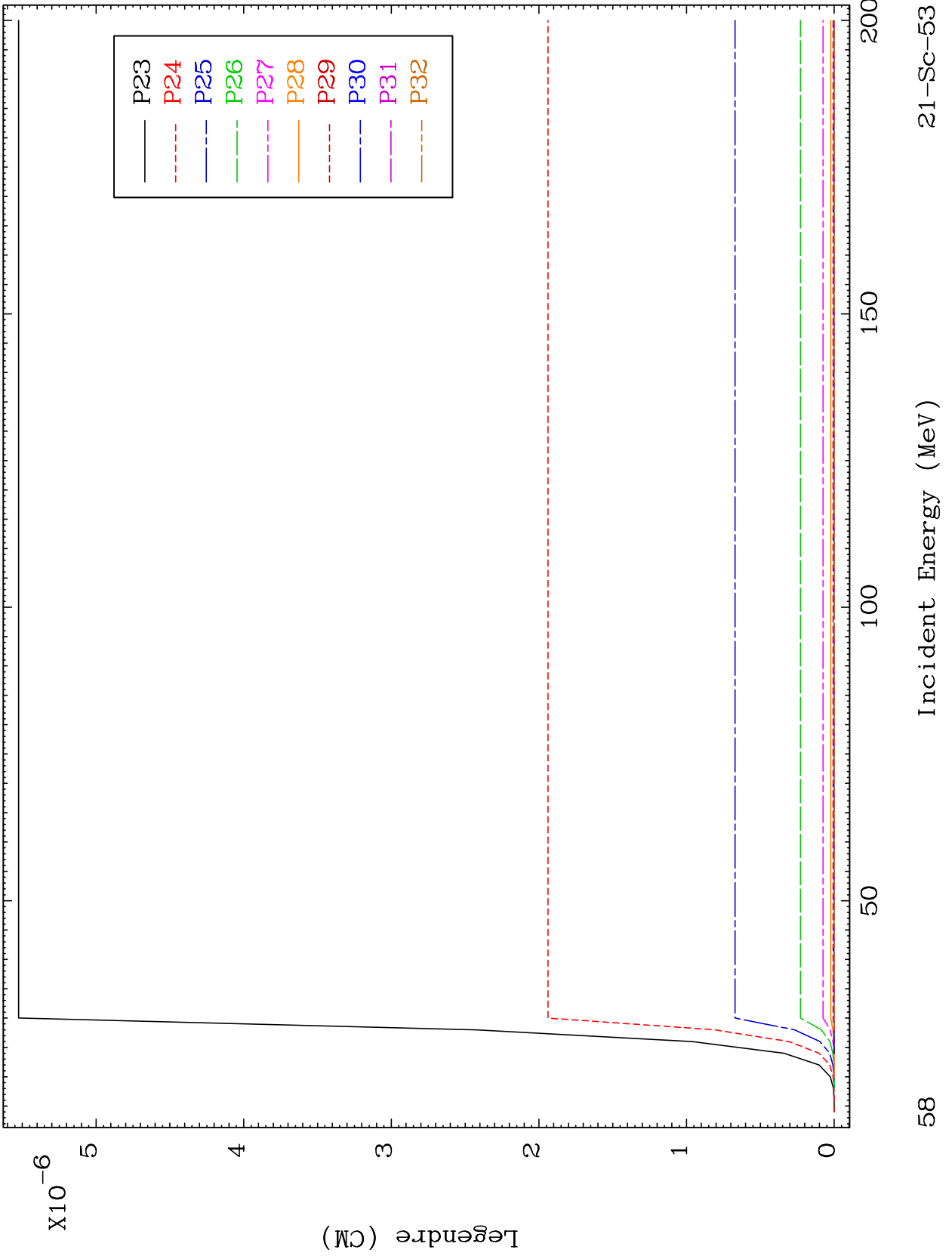
21-Sc-53



MAT 2149

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

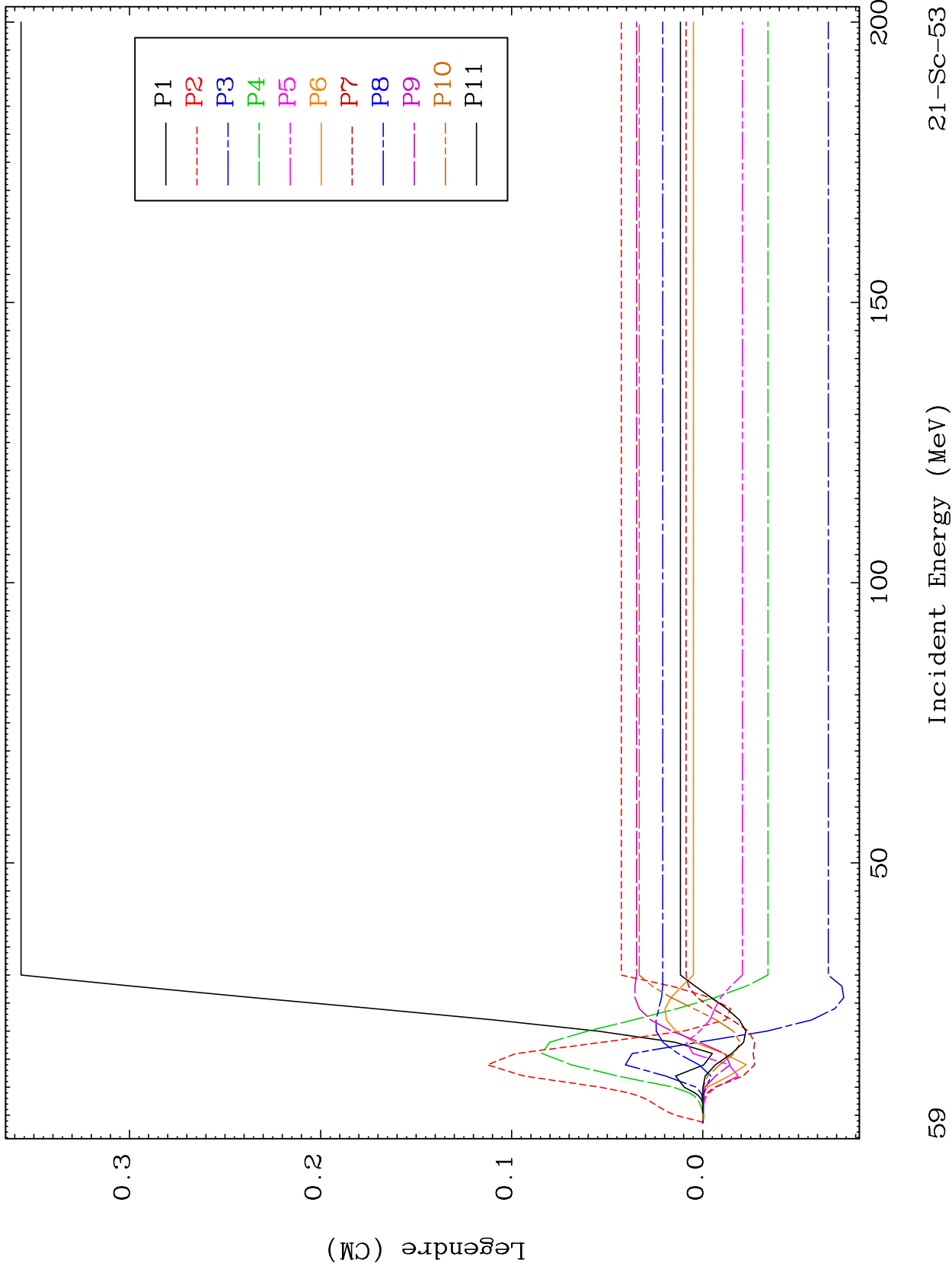
21-Sc-53



58

Incident Energy (MeV)

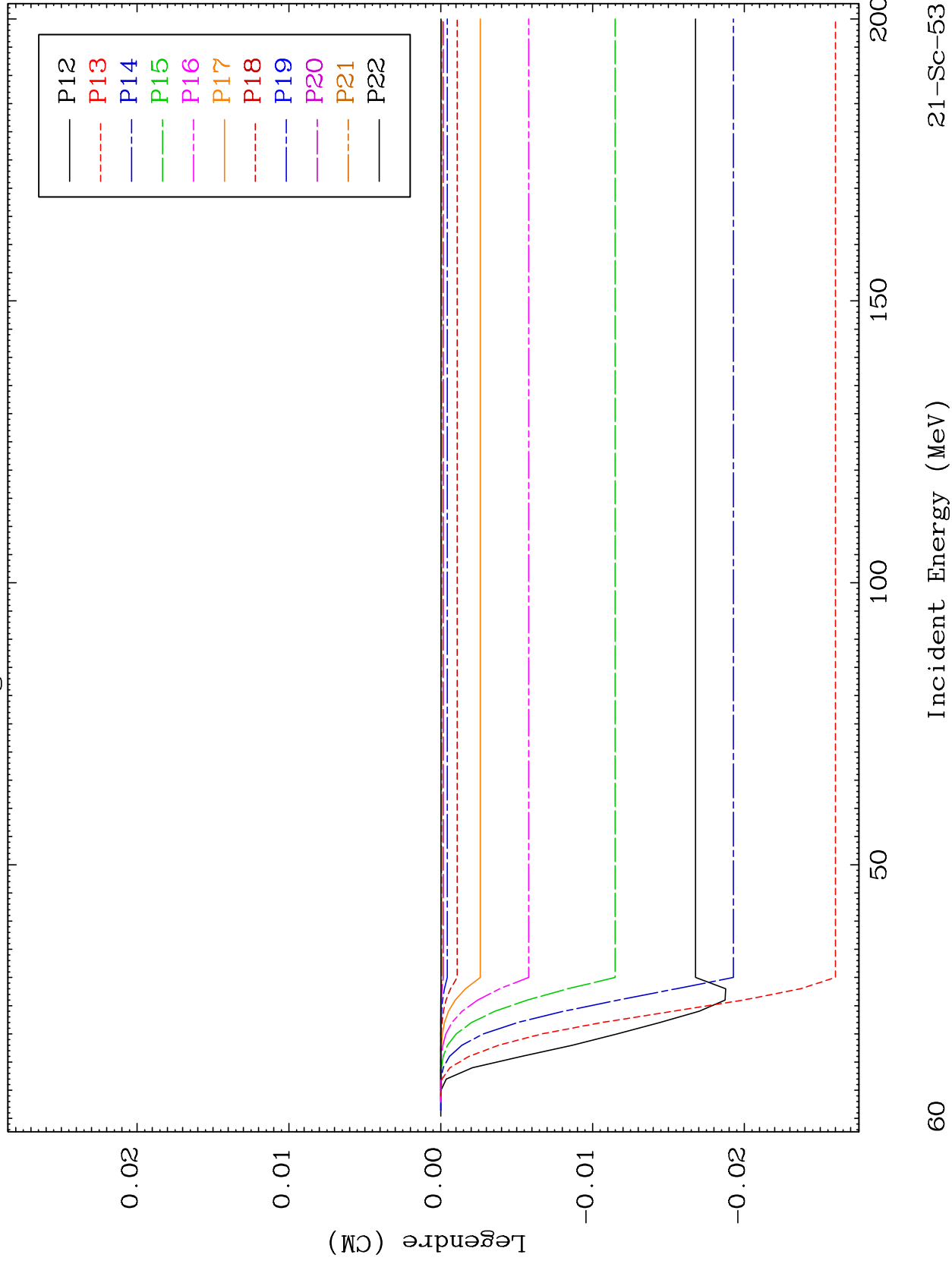
21-Sc-53



MAT 2149

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

21-Sc-53



60

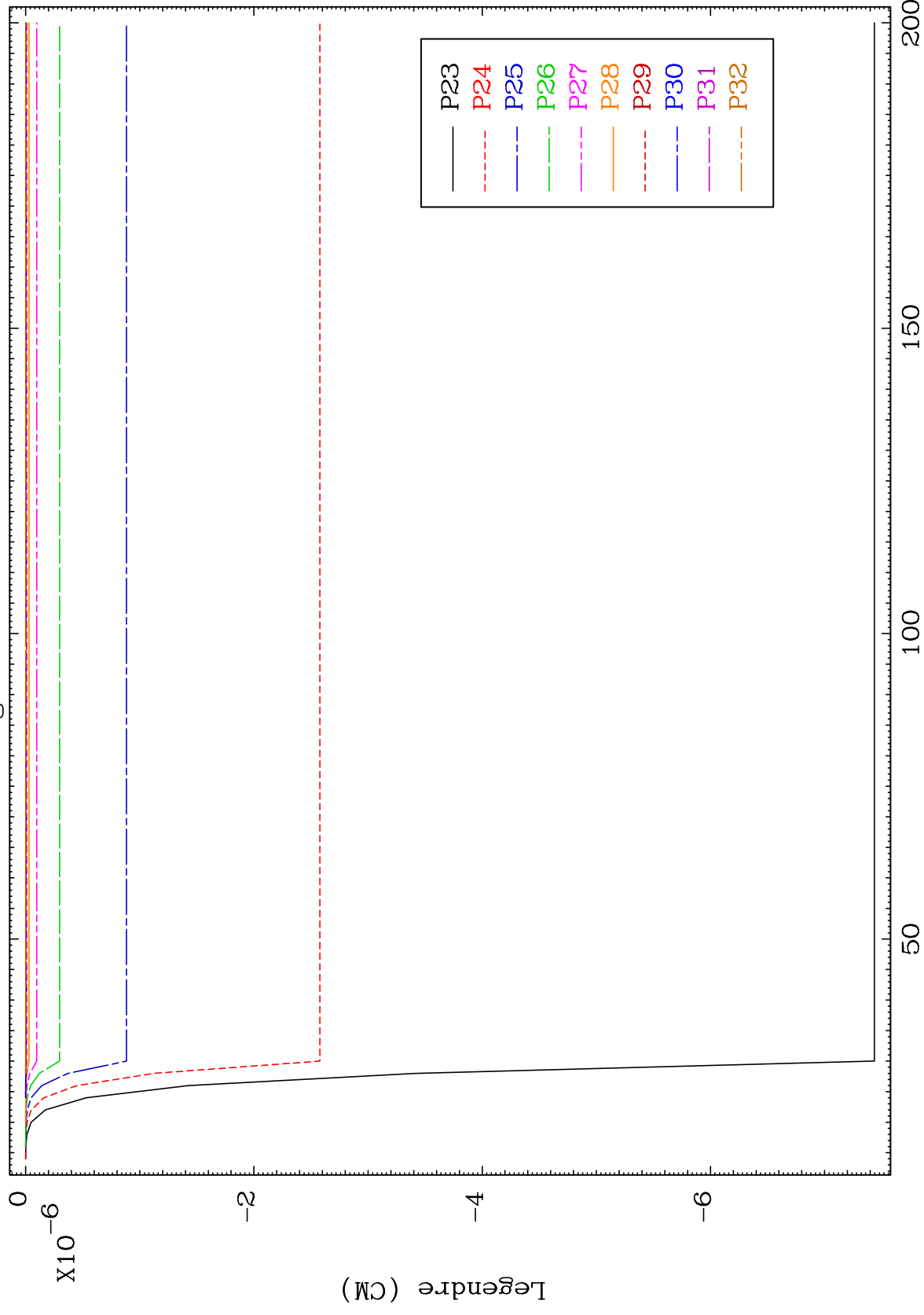
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



61

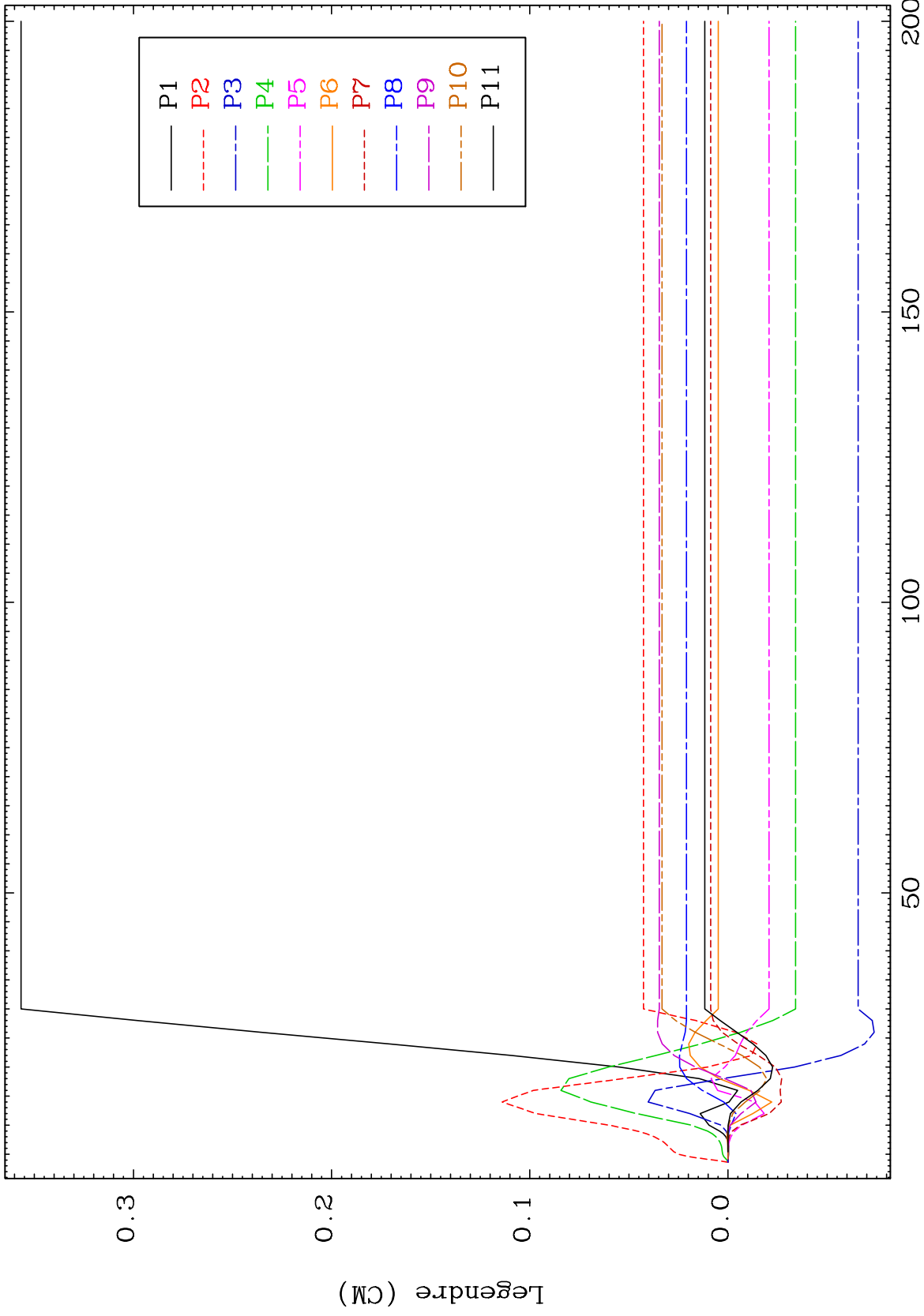
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



62

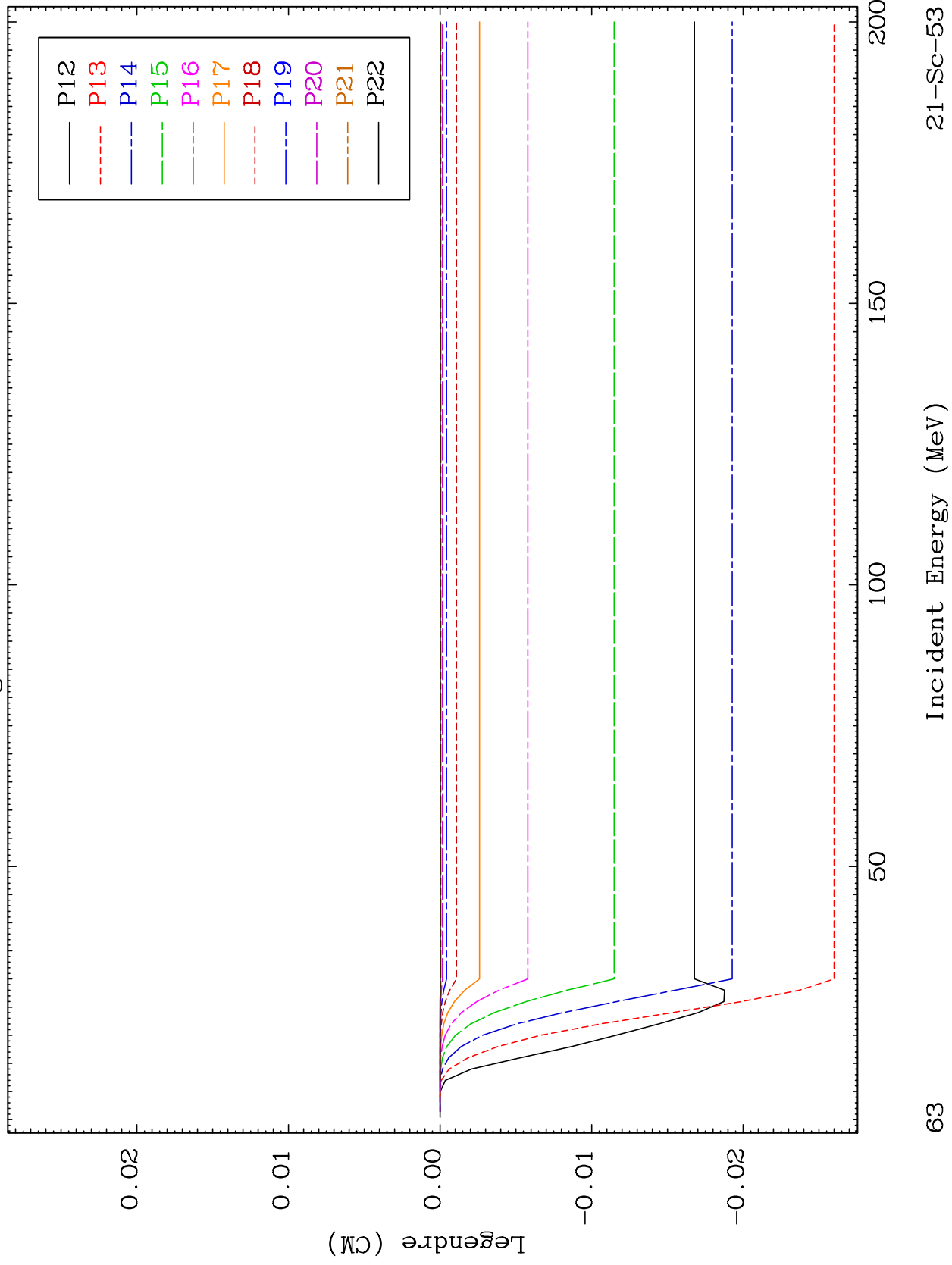
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



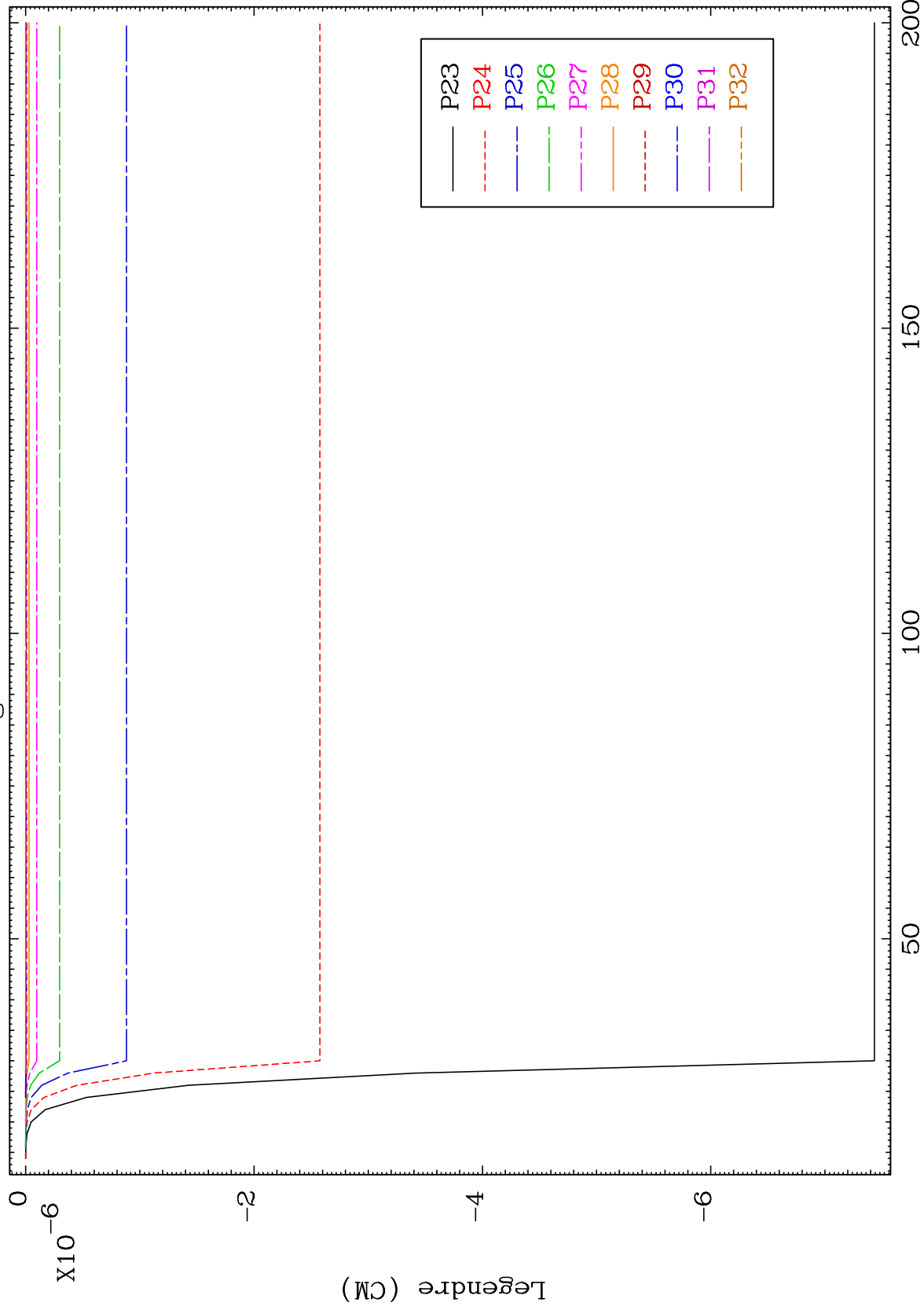
63

21-Sc-53

MAT 2149

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

21-Sc-53



64

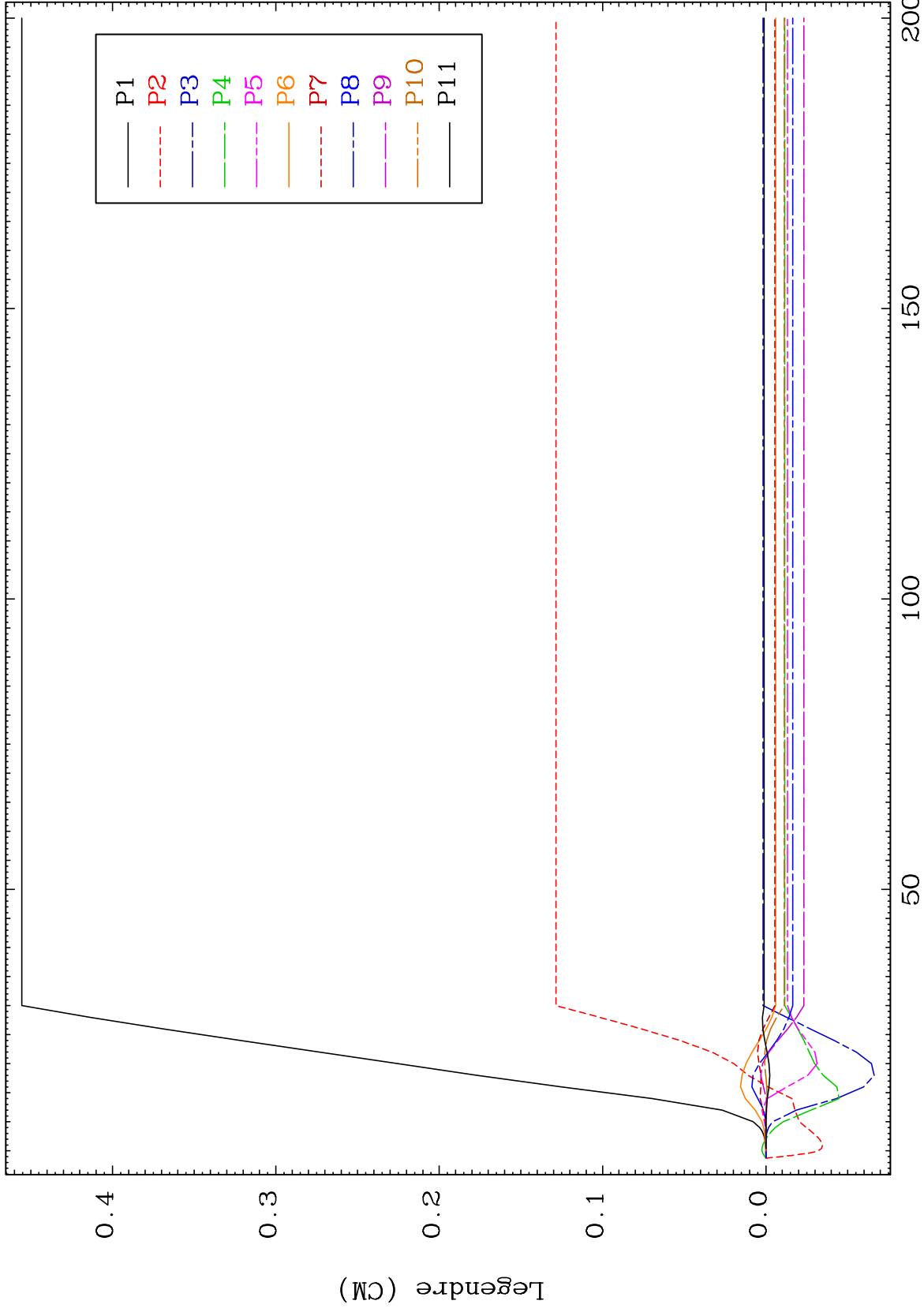
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

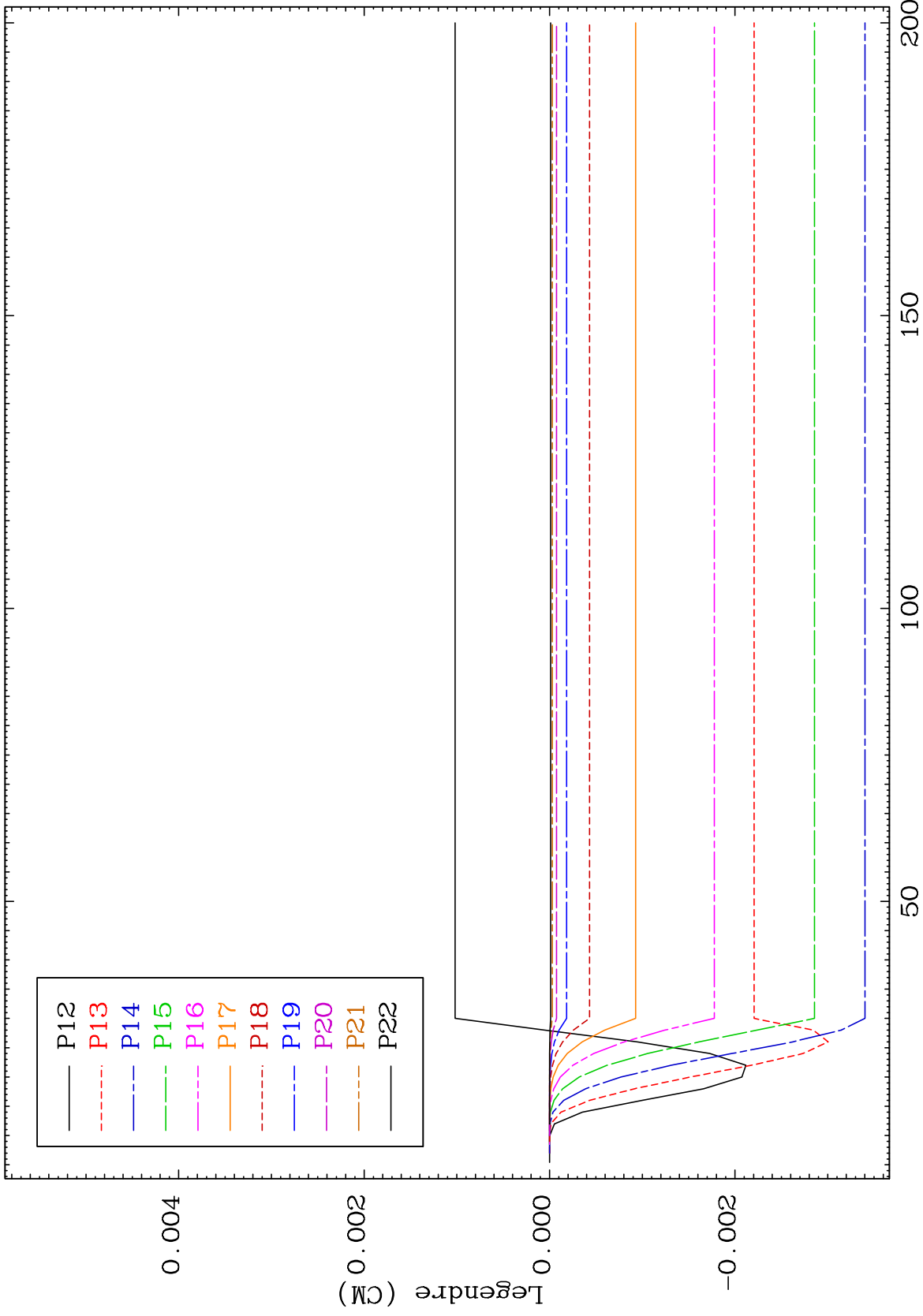
21-Sc-53



65

Incident Energy (MeV)

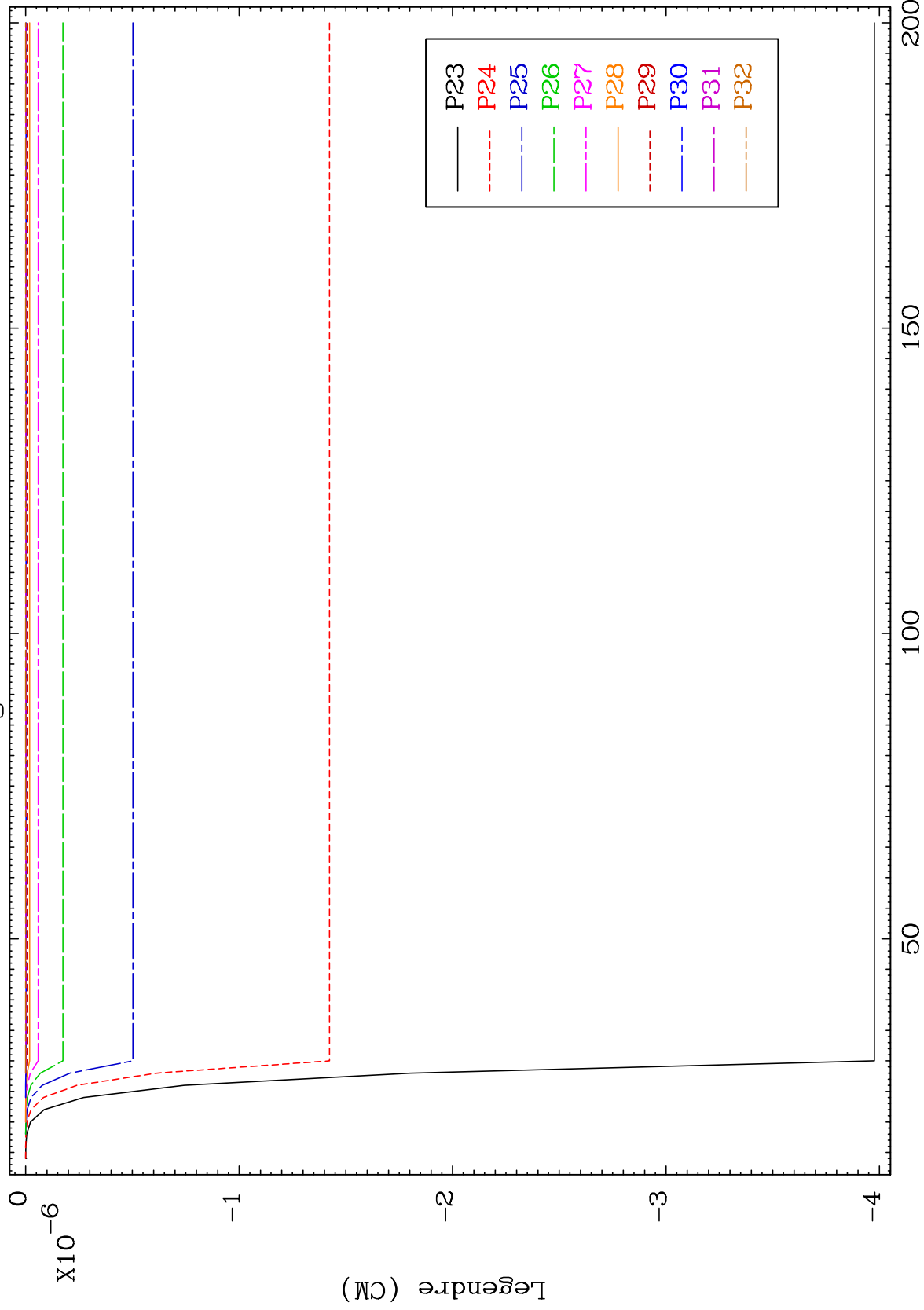
21-Sc-53



MAT 2149

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

21-Sc-53



67

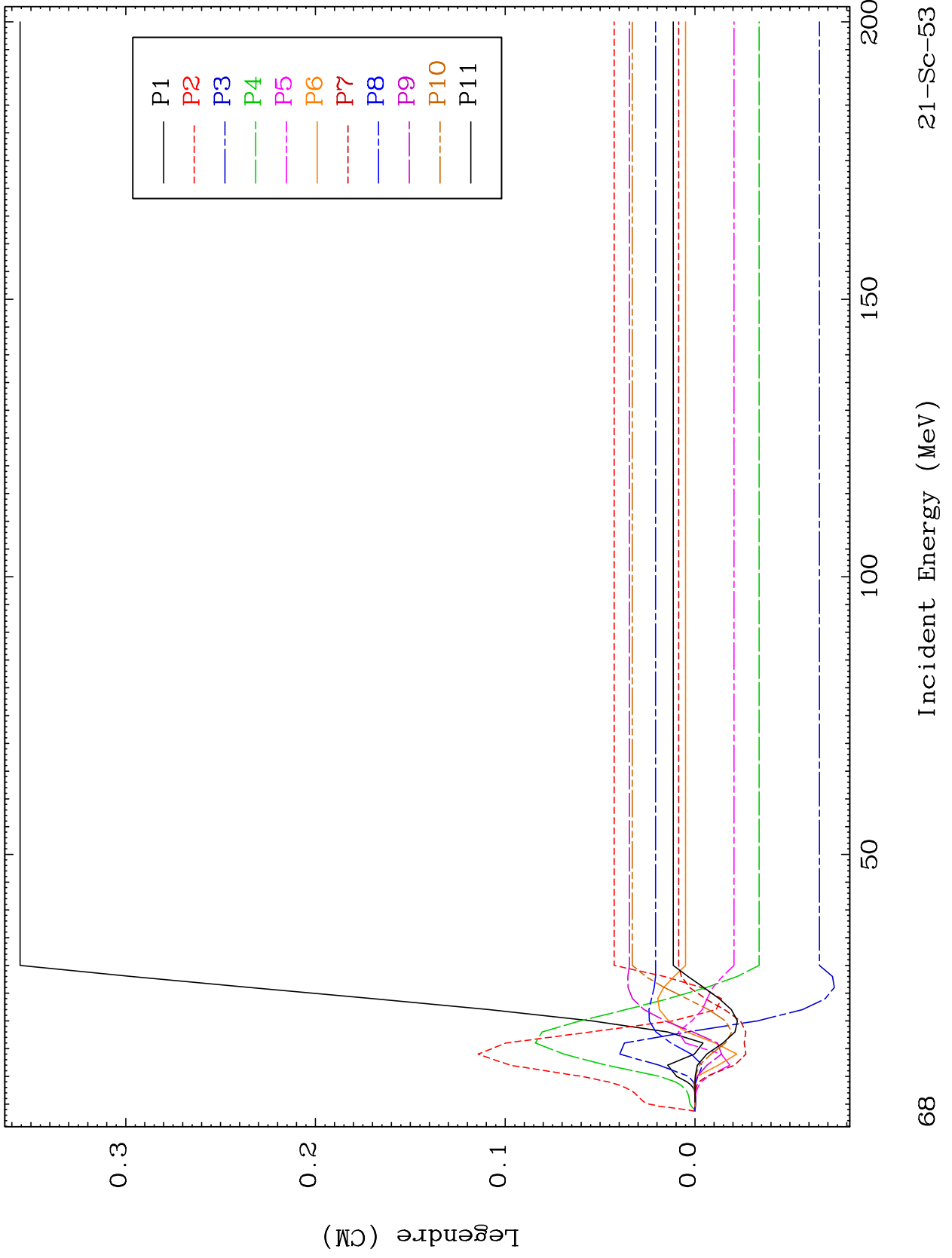
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

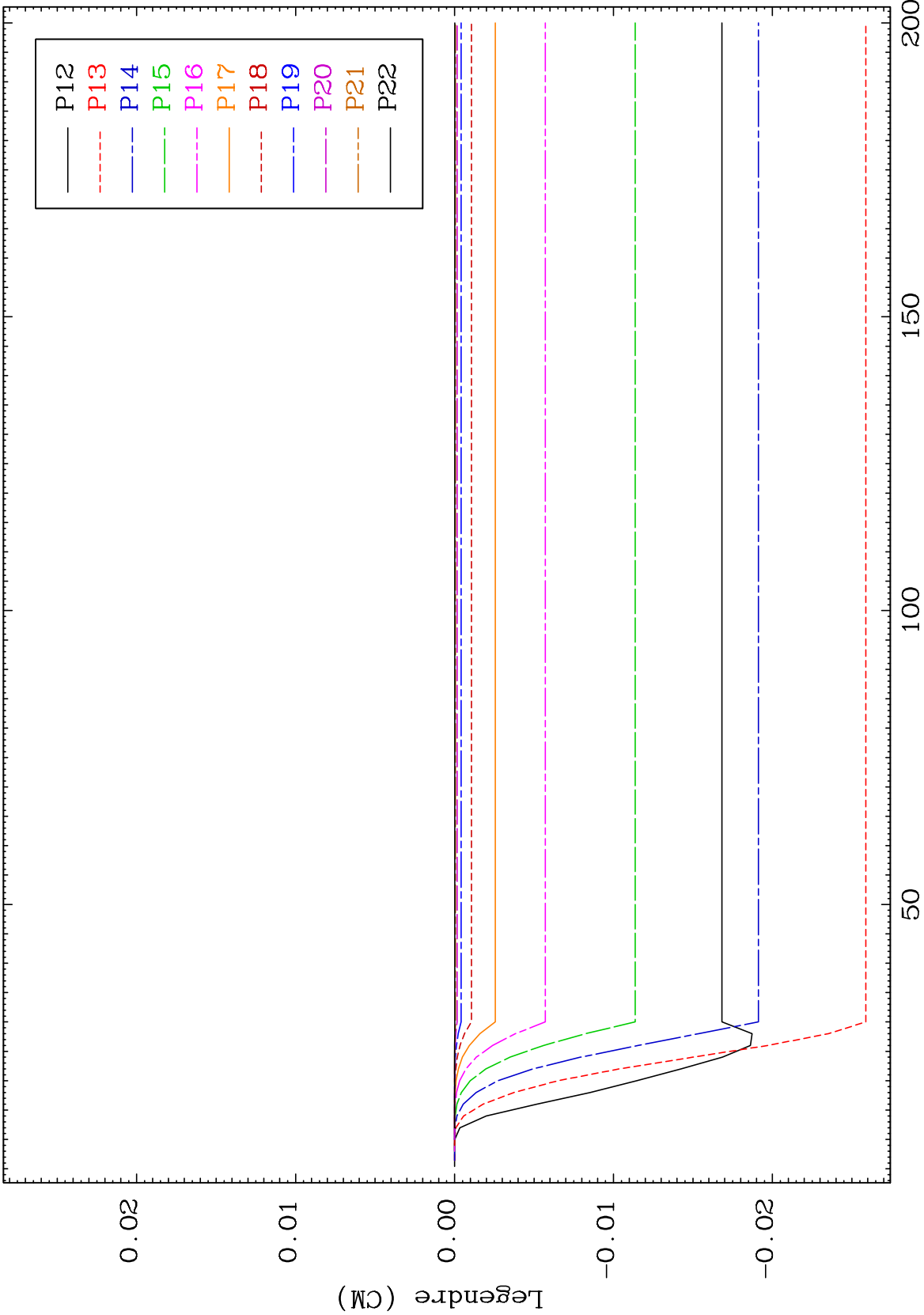
21-Sc-53



MAT 2149

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

21-Sc-53



69

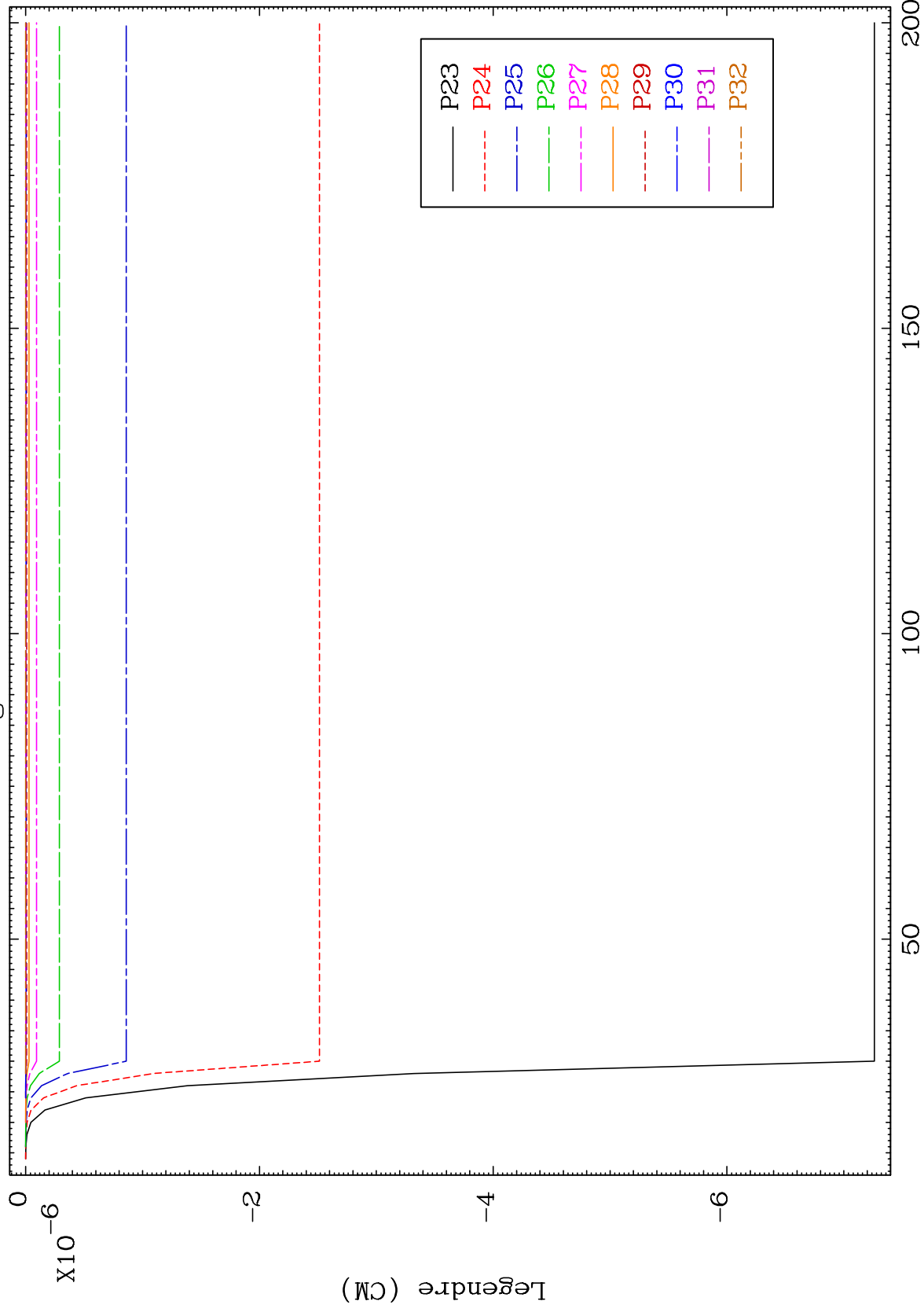
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

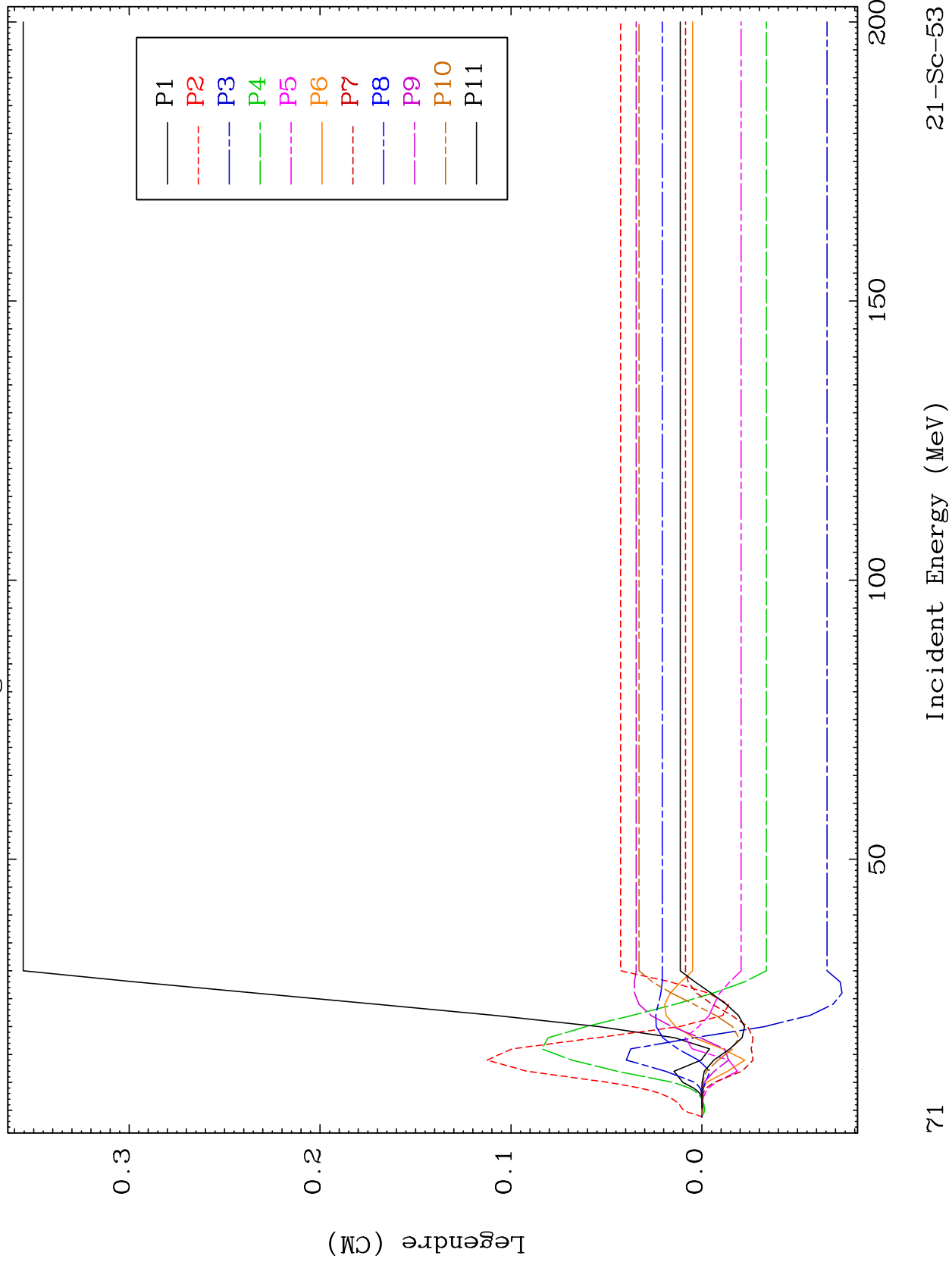
21-Sc-53



70

Incident Energy (MeV)

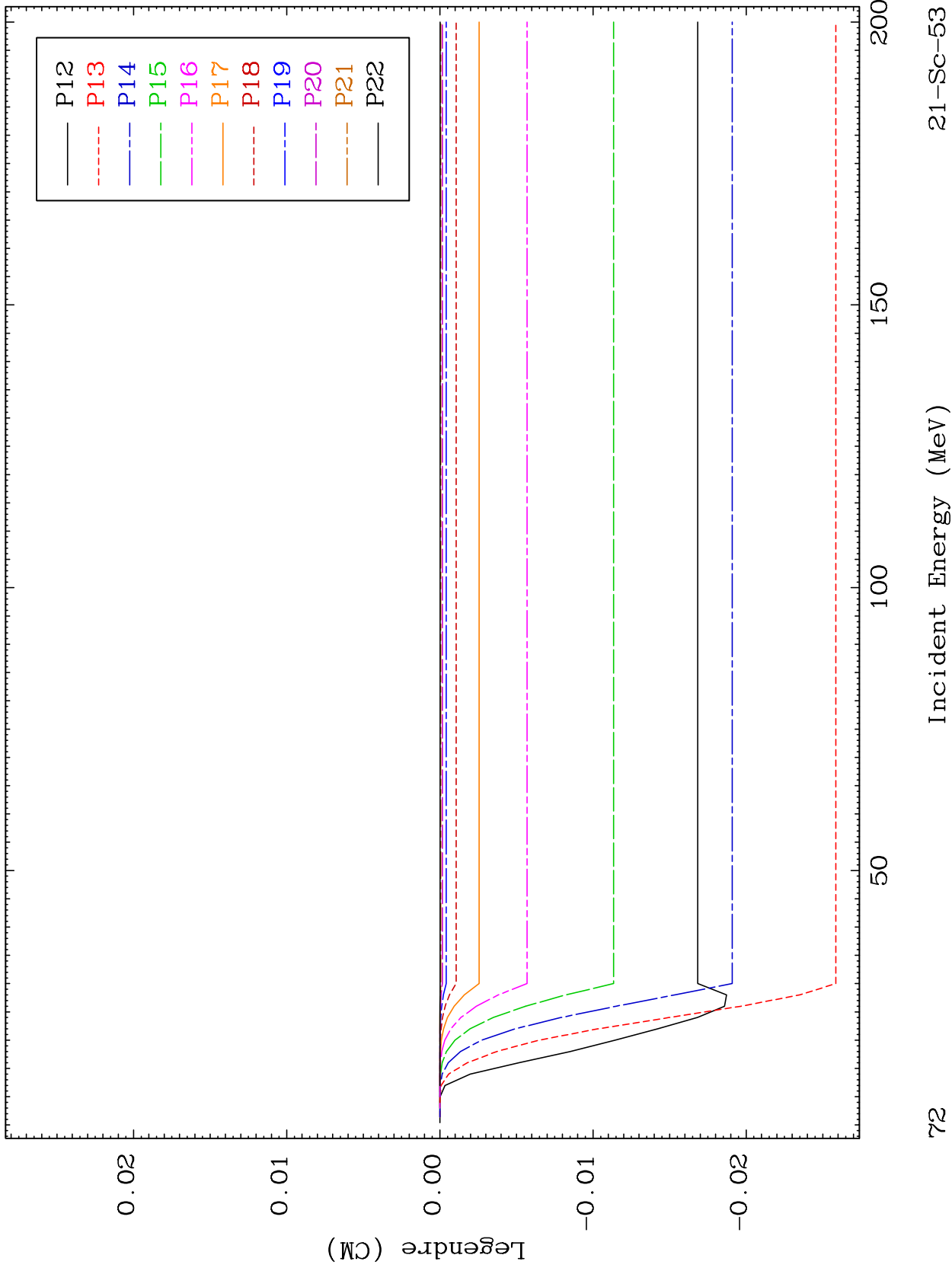
21-Sc-53



MAT 2149

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

21-Sc-53



72

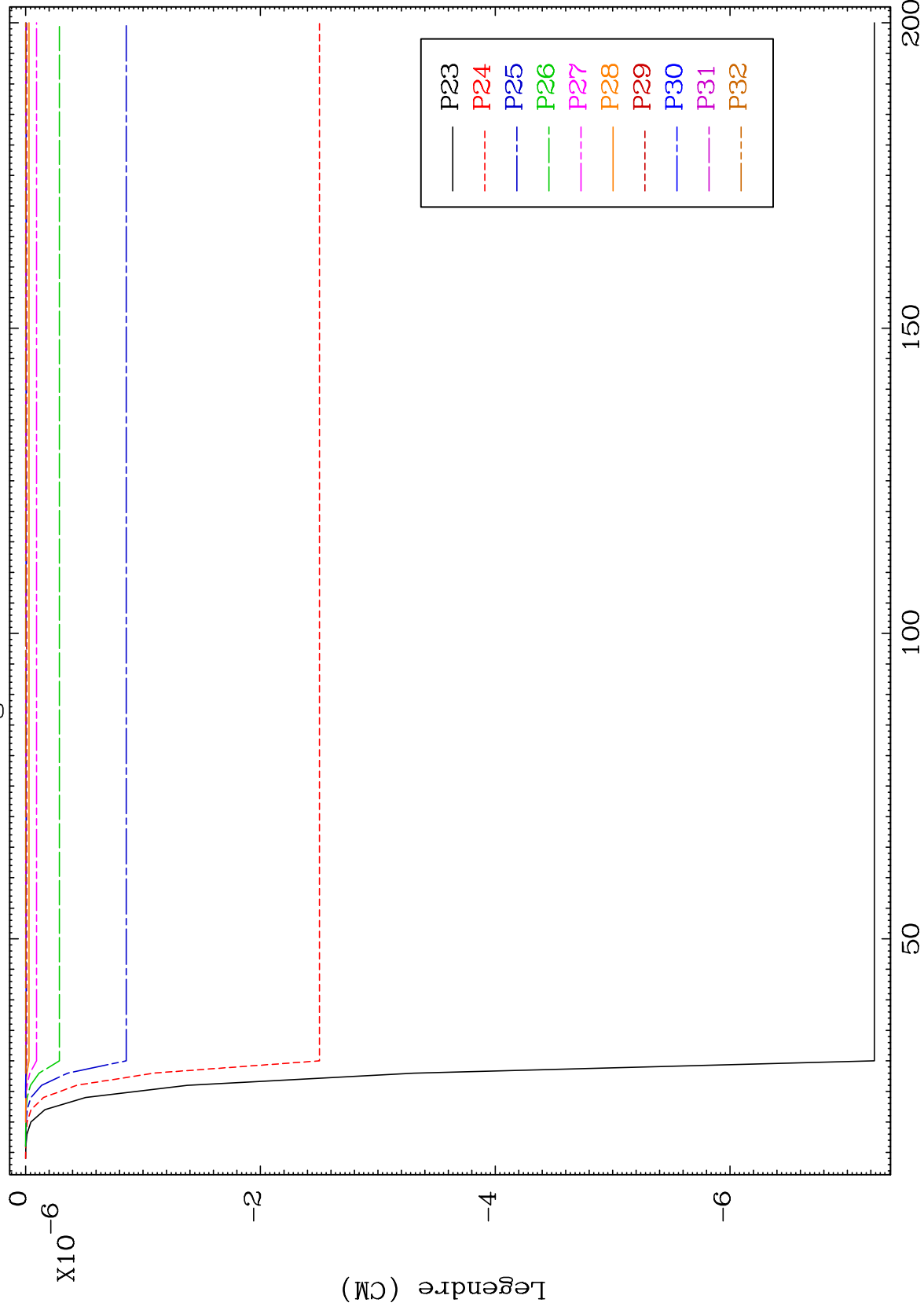
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



73

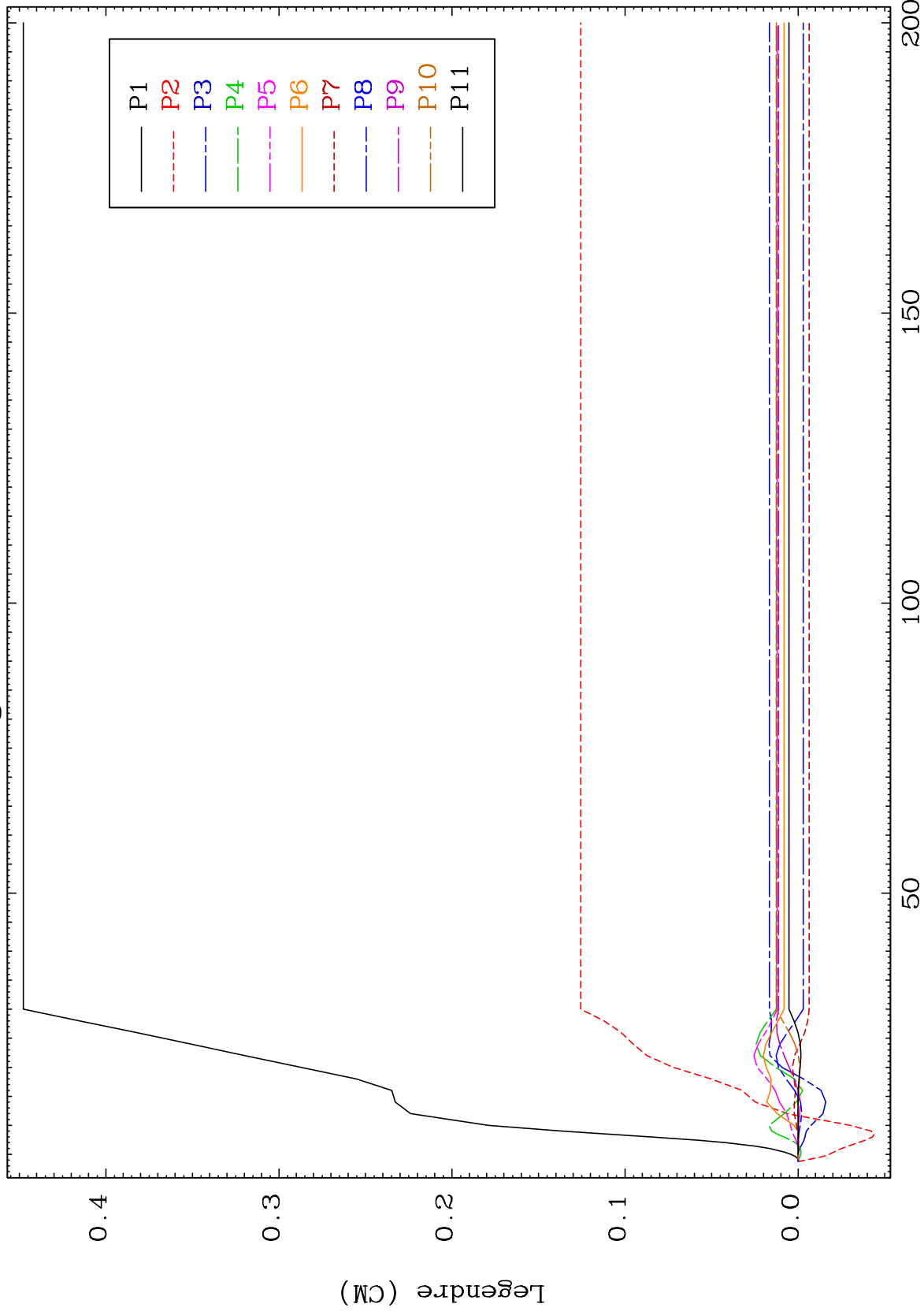
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



74

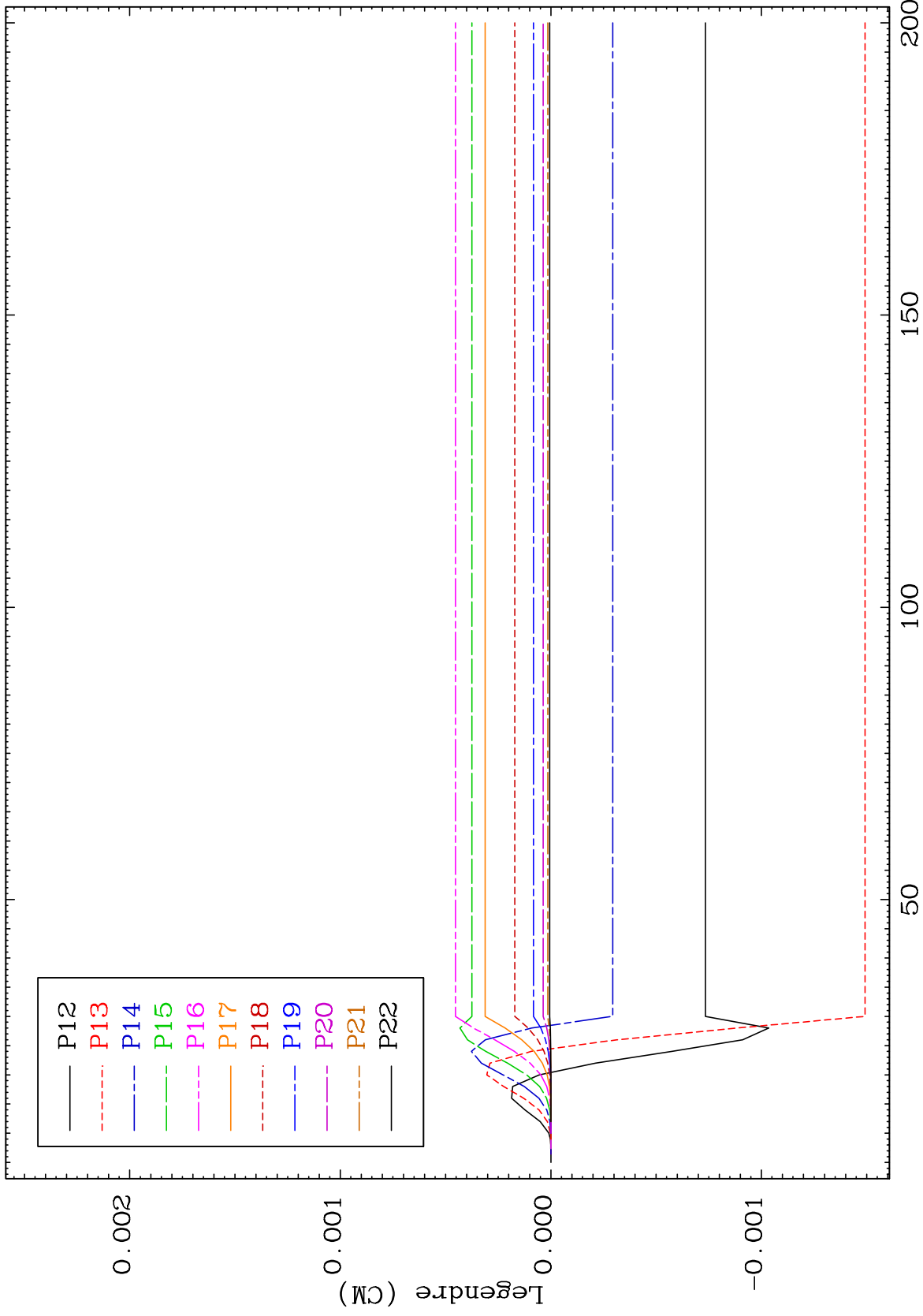
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



75

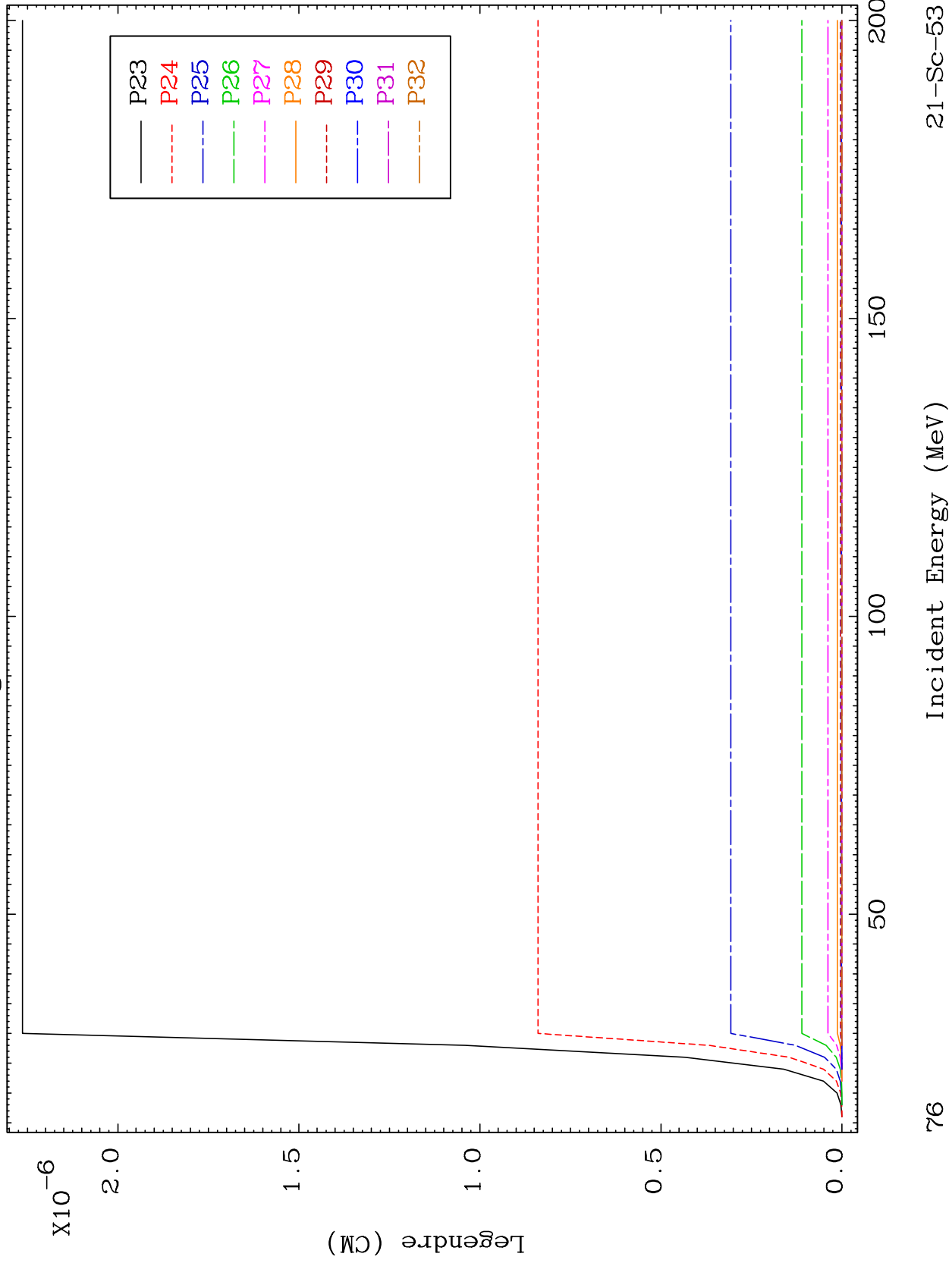
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

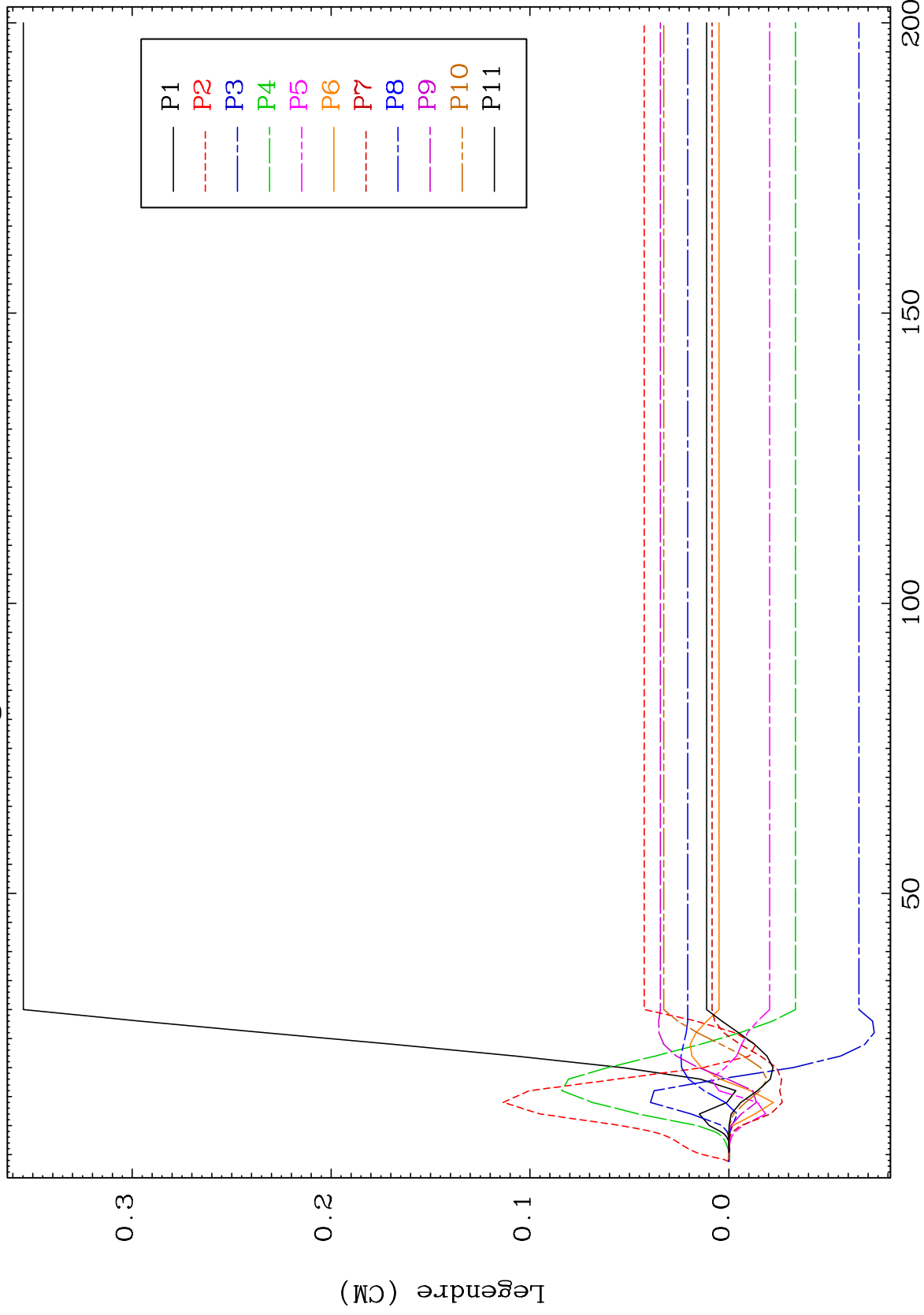
21-Sc-53



MAT 2149

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

21-Sc-53



77

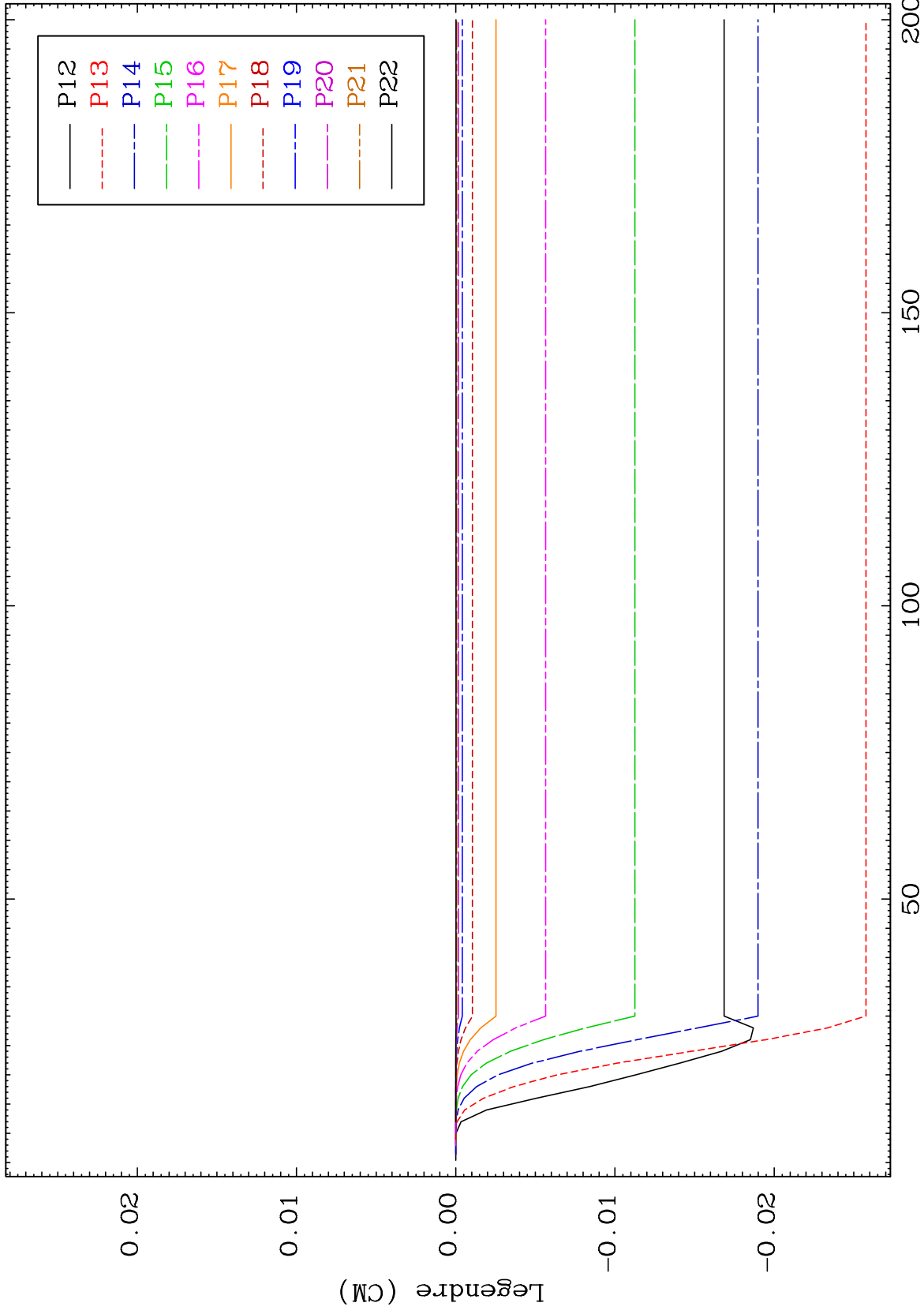
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



78

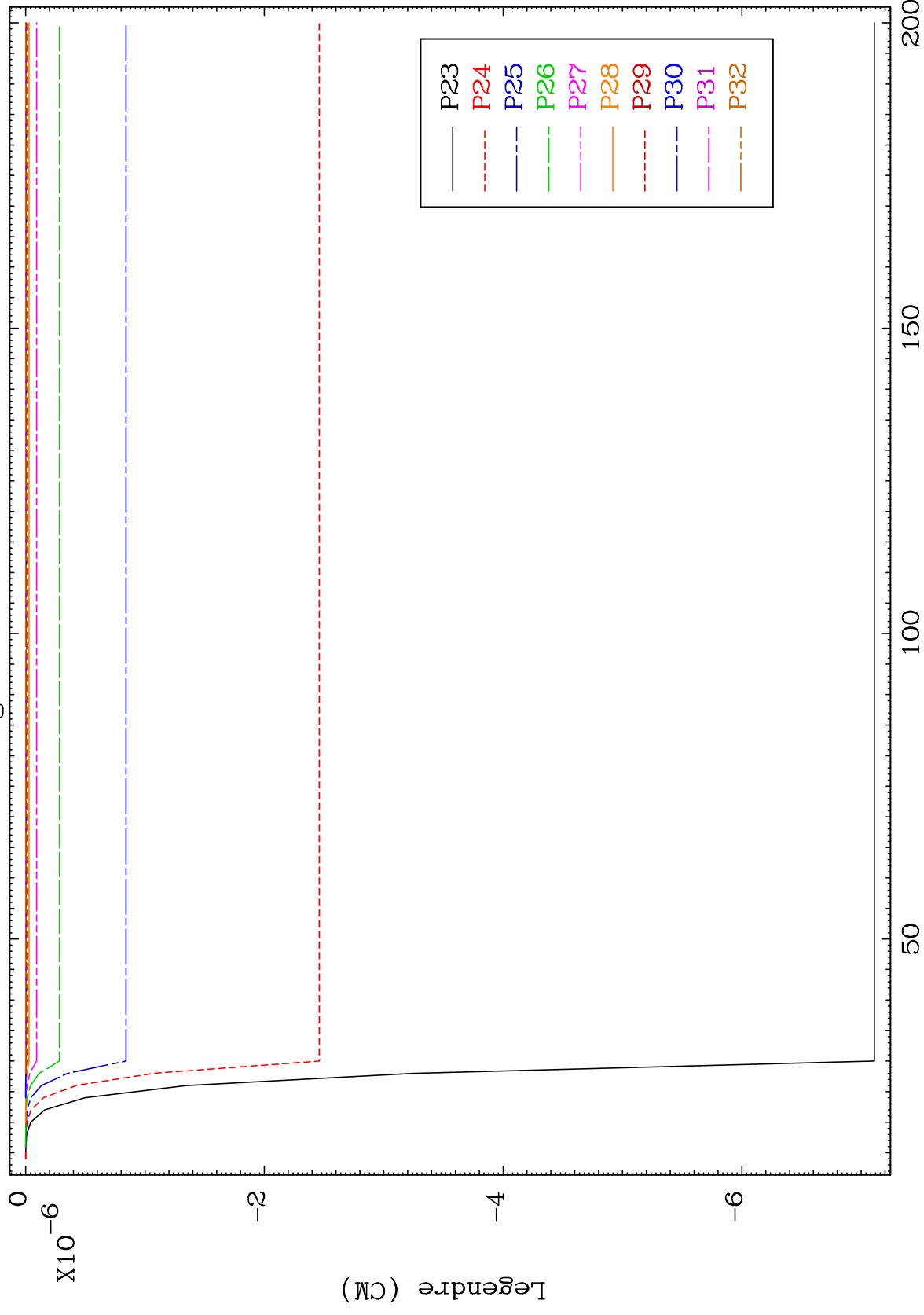
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



79

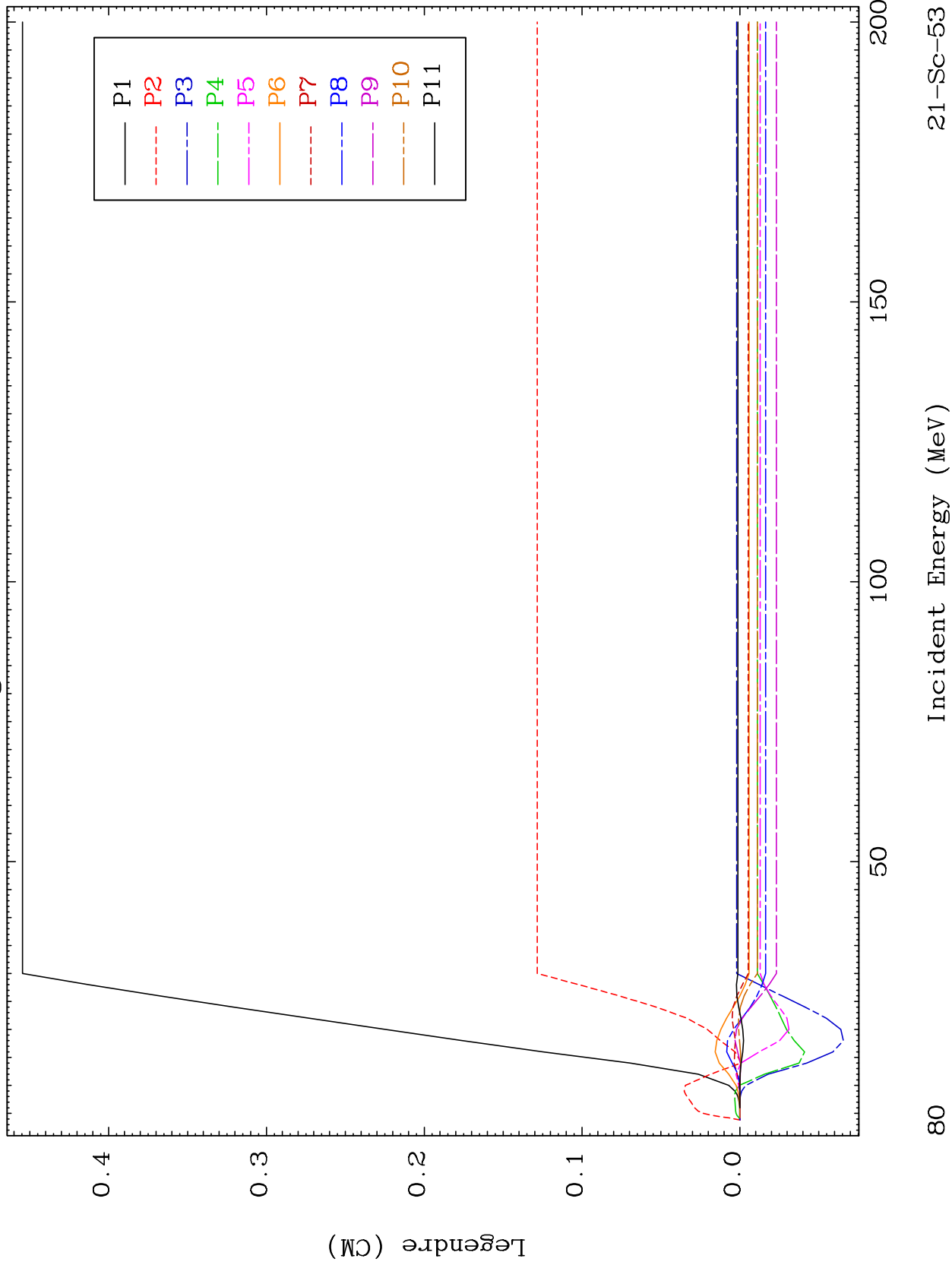
Incident Energy (MeV)

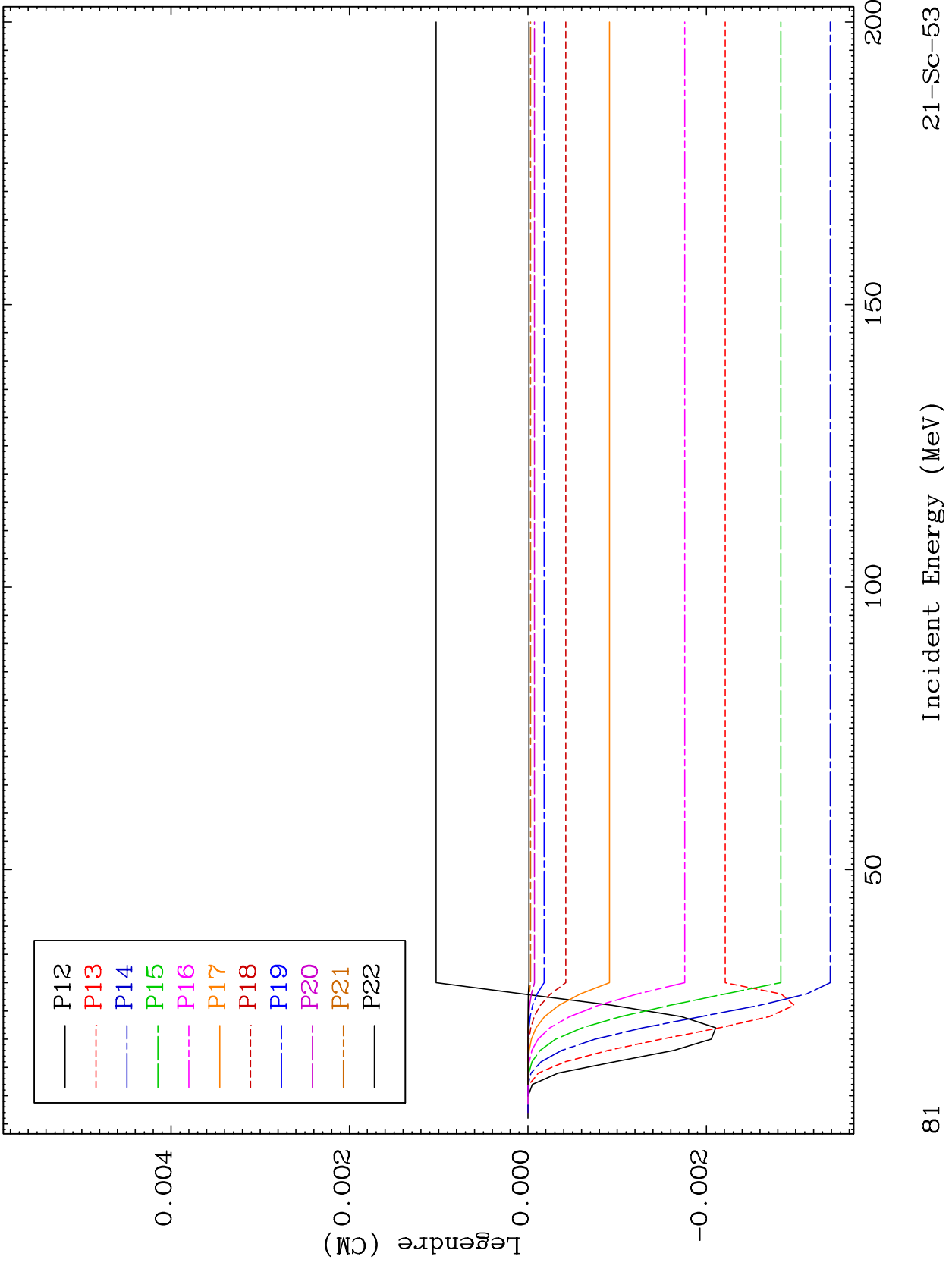
21-Sc-53

MAT 2149

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

21-Sc-53

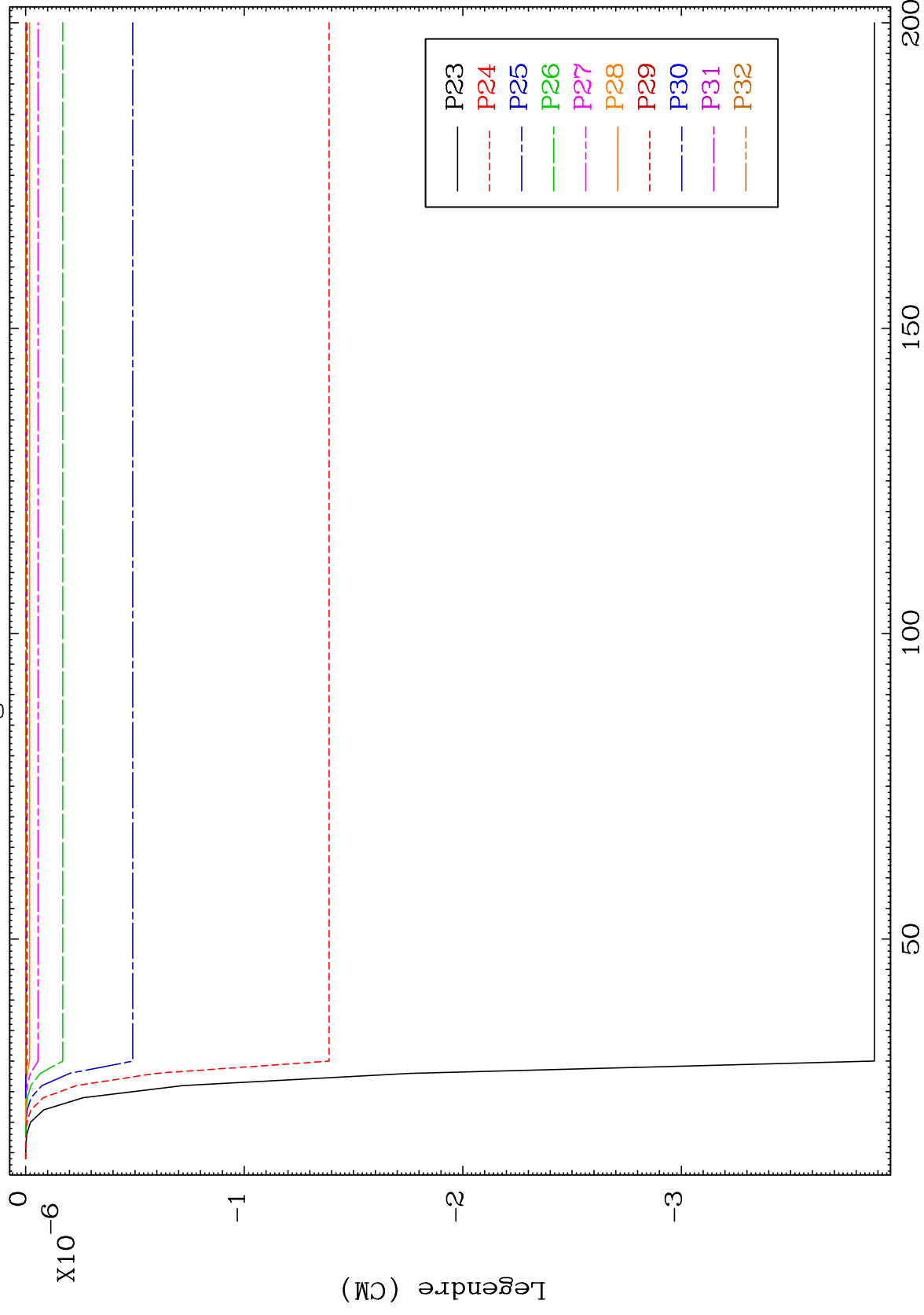




MAT 2149

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

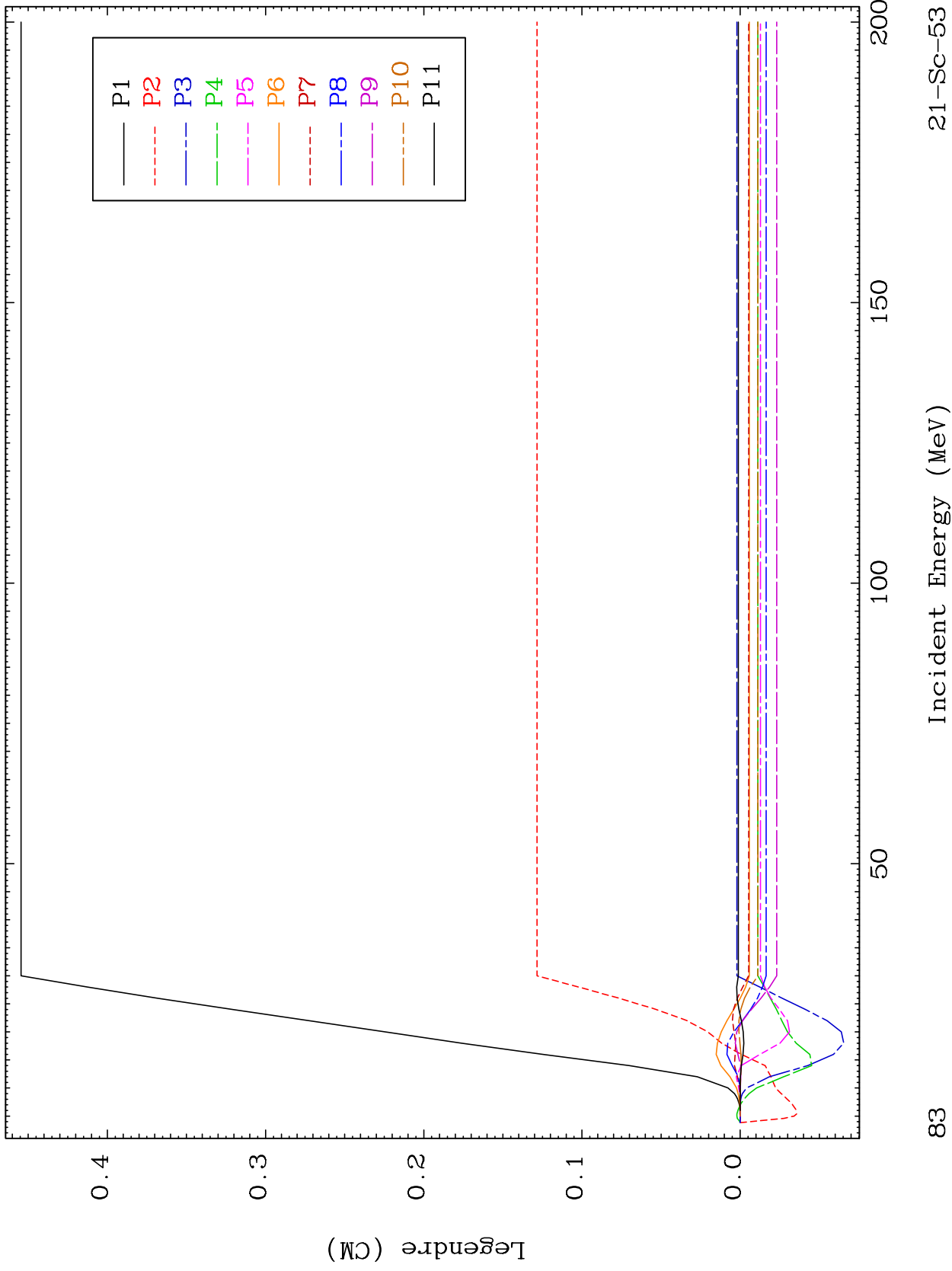
21-Sc-53

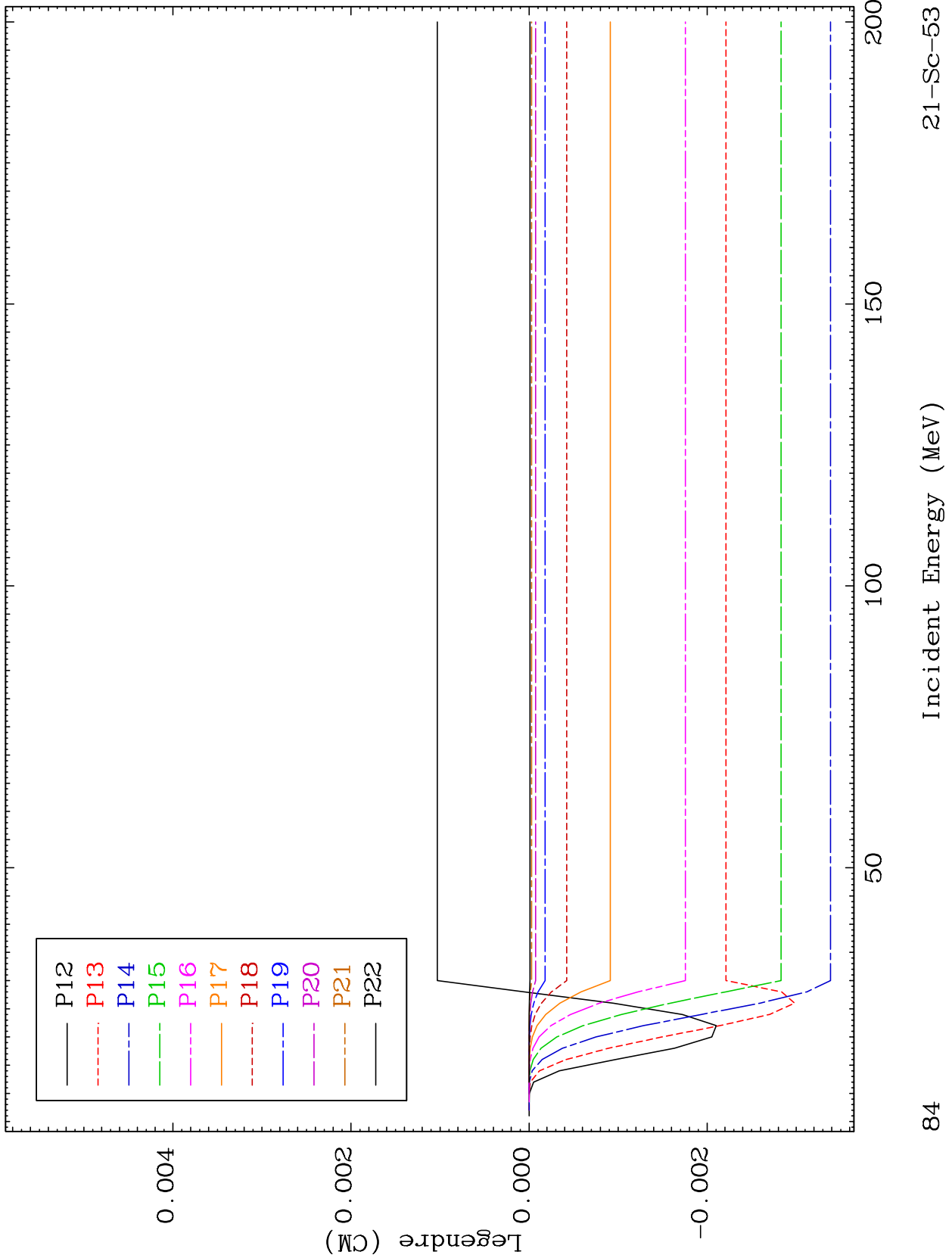


82

Incident Energy (MeV)

21-Sc-53

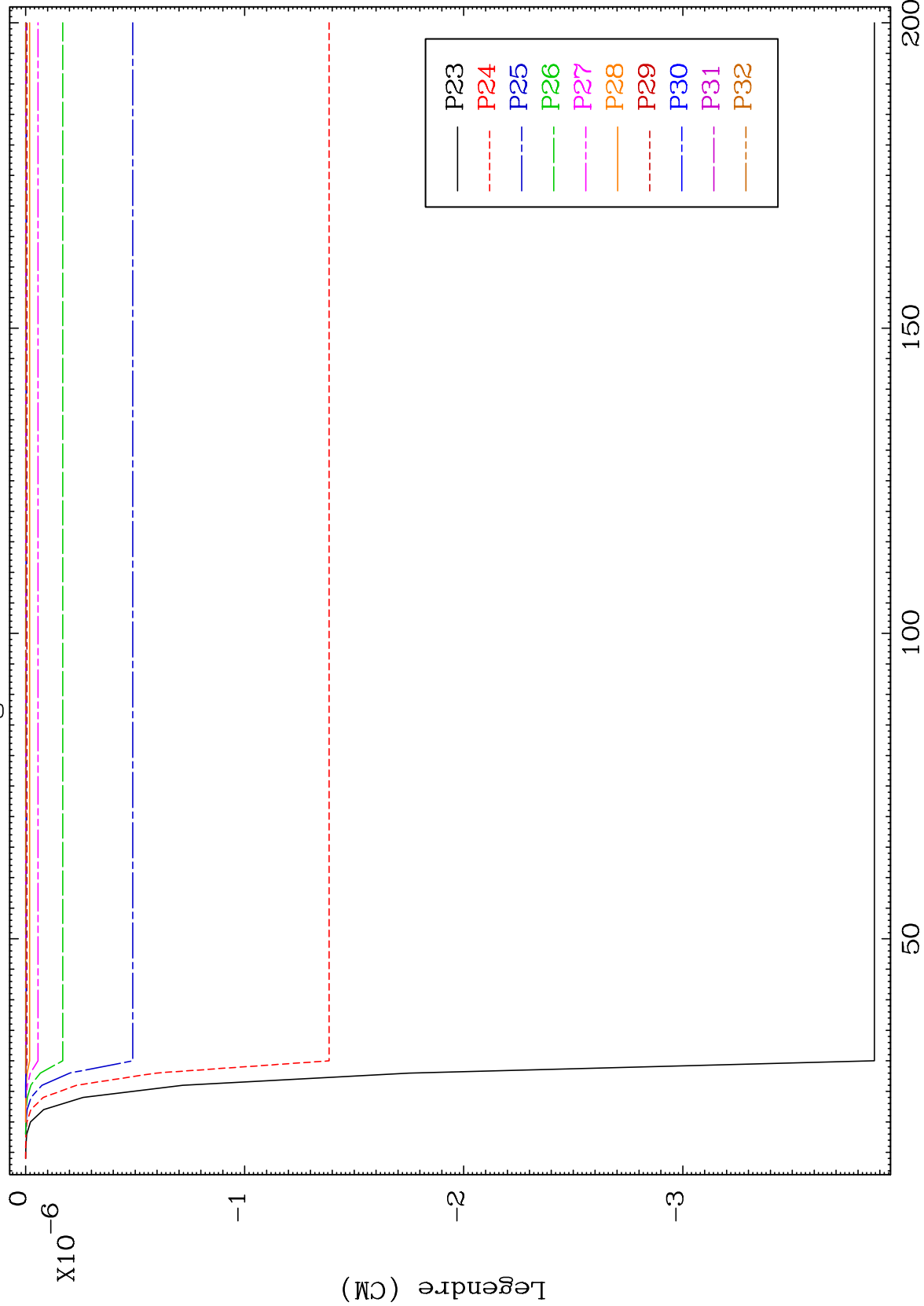




MAT 2149

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

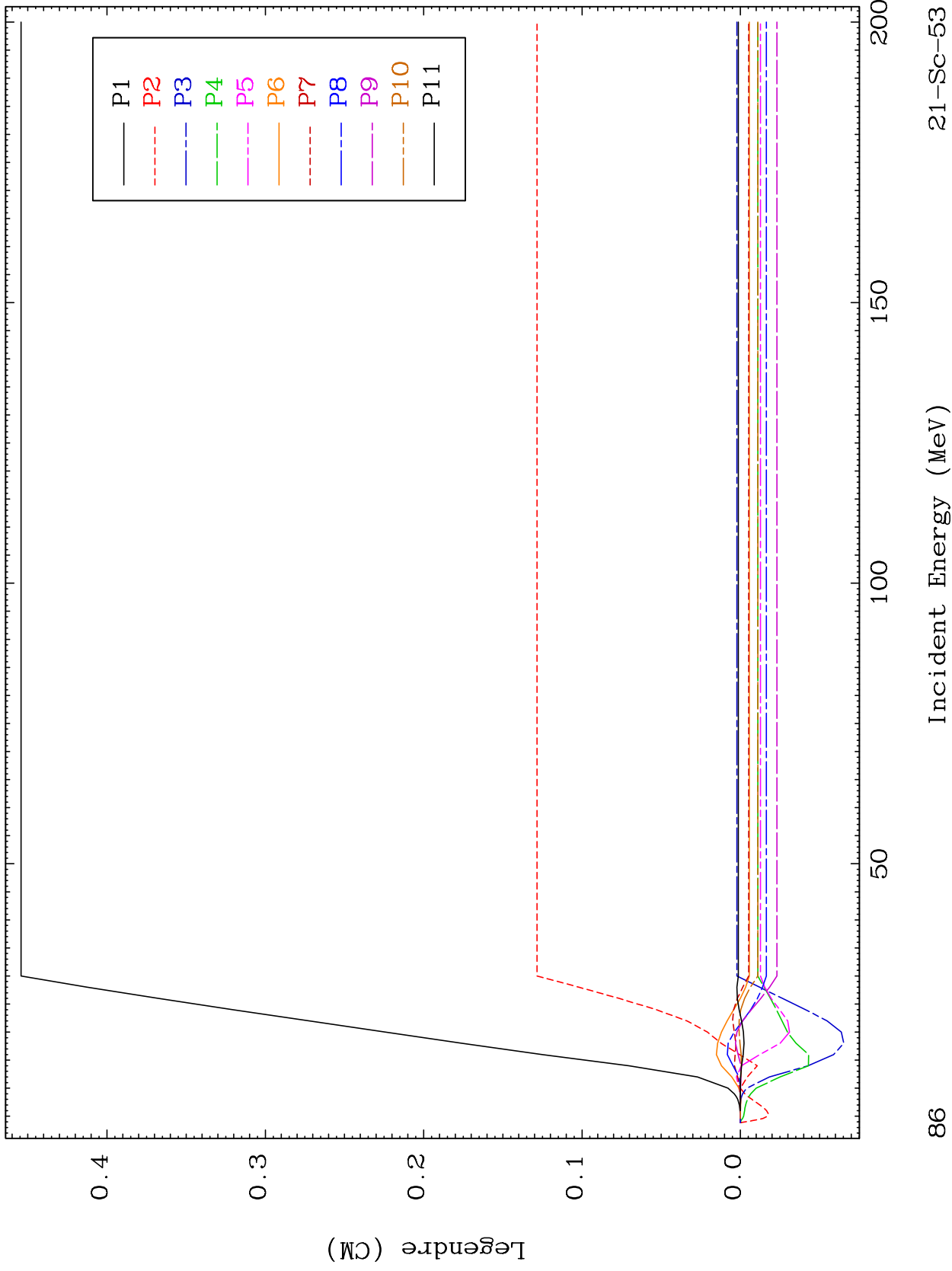
21-Sc-53

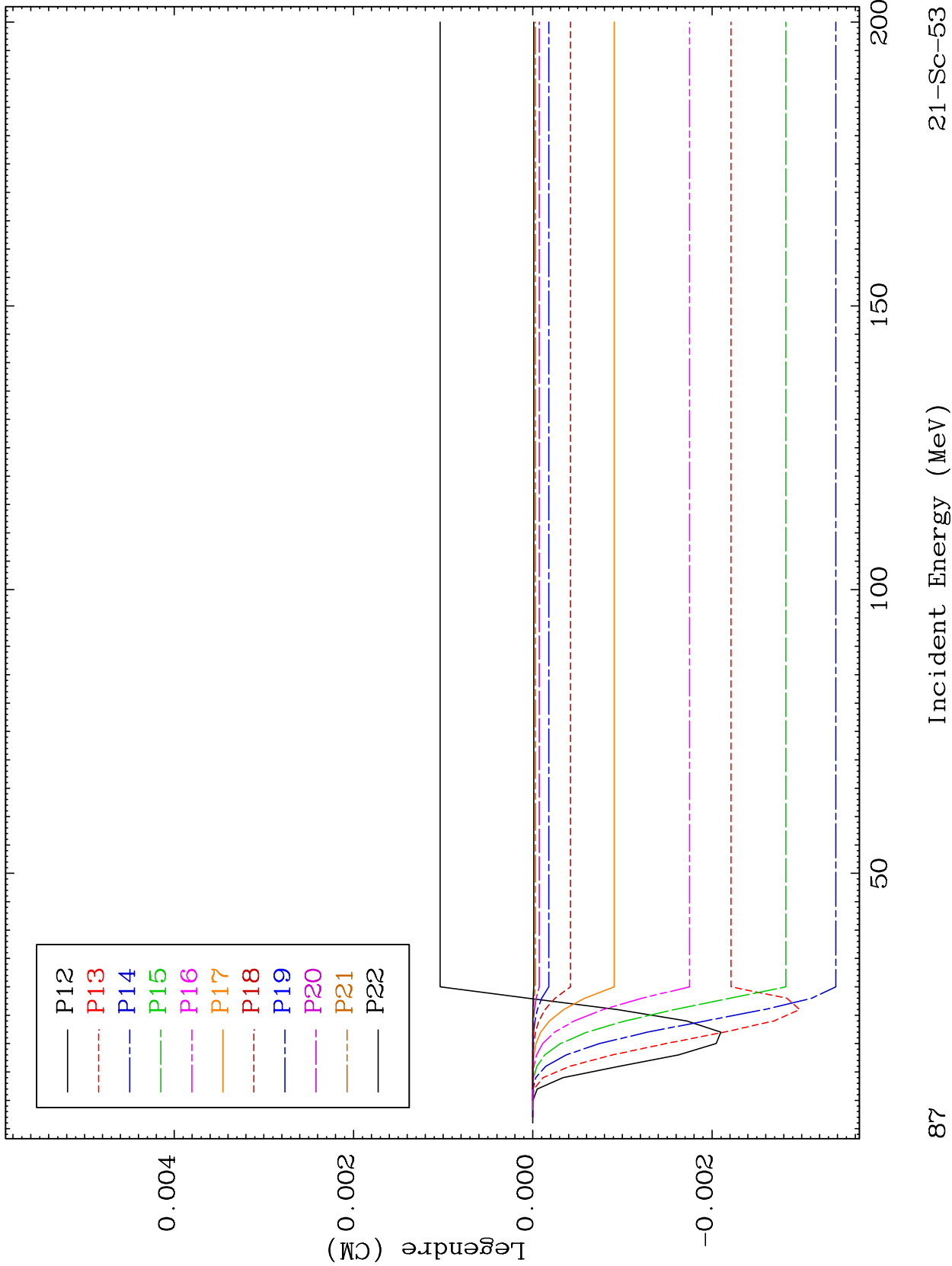


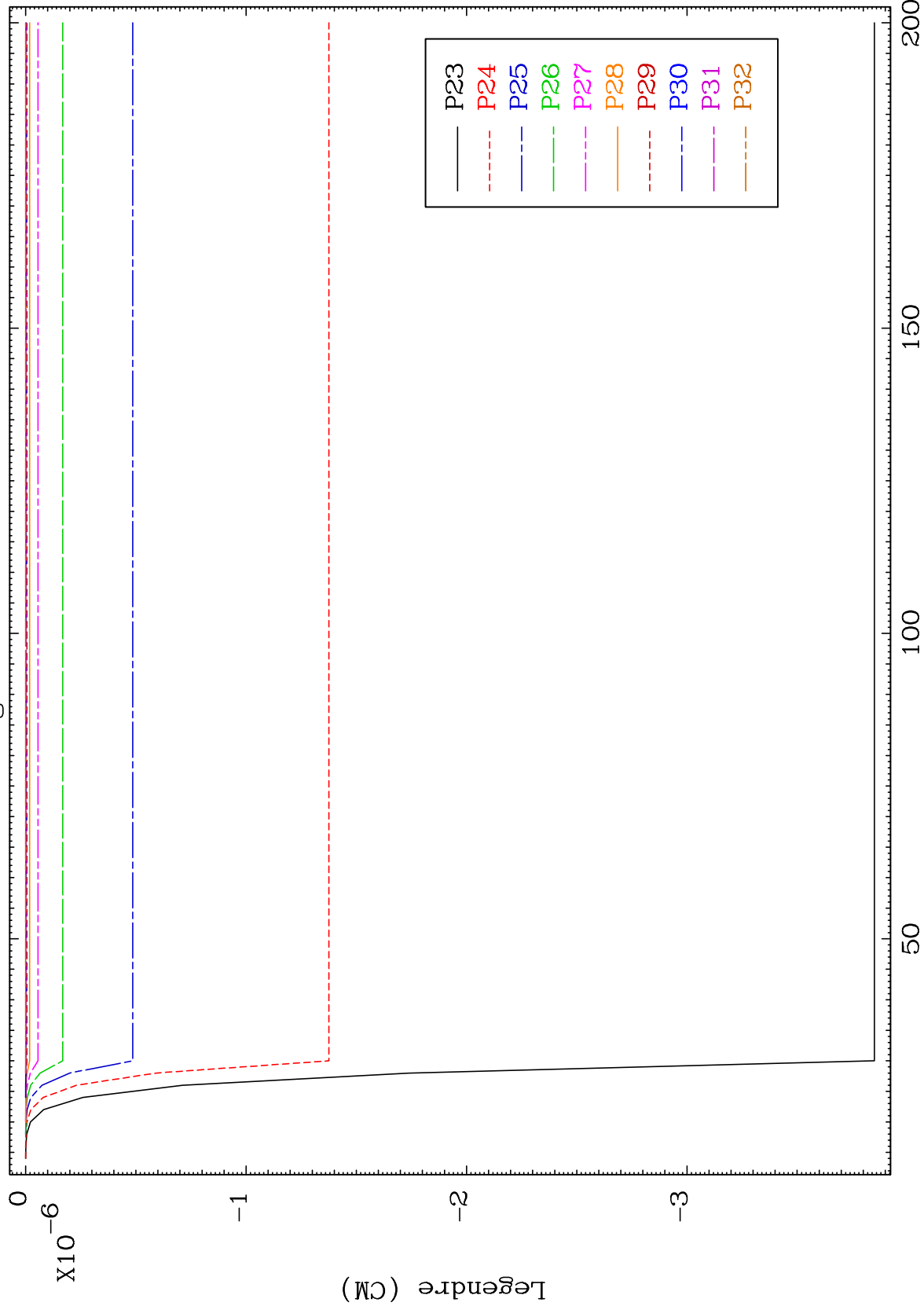
85

Incident Energy (MeV)

21-Sc-53



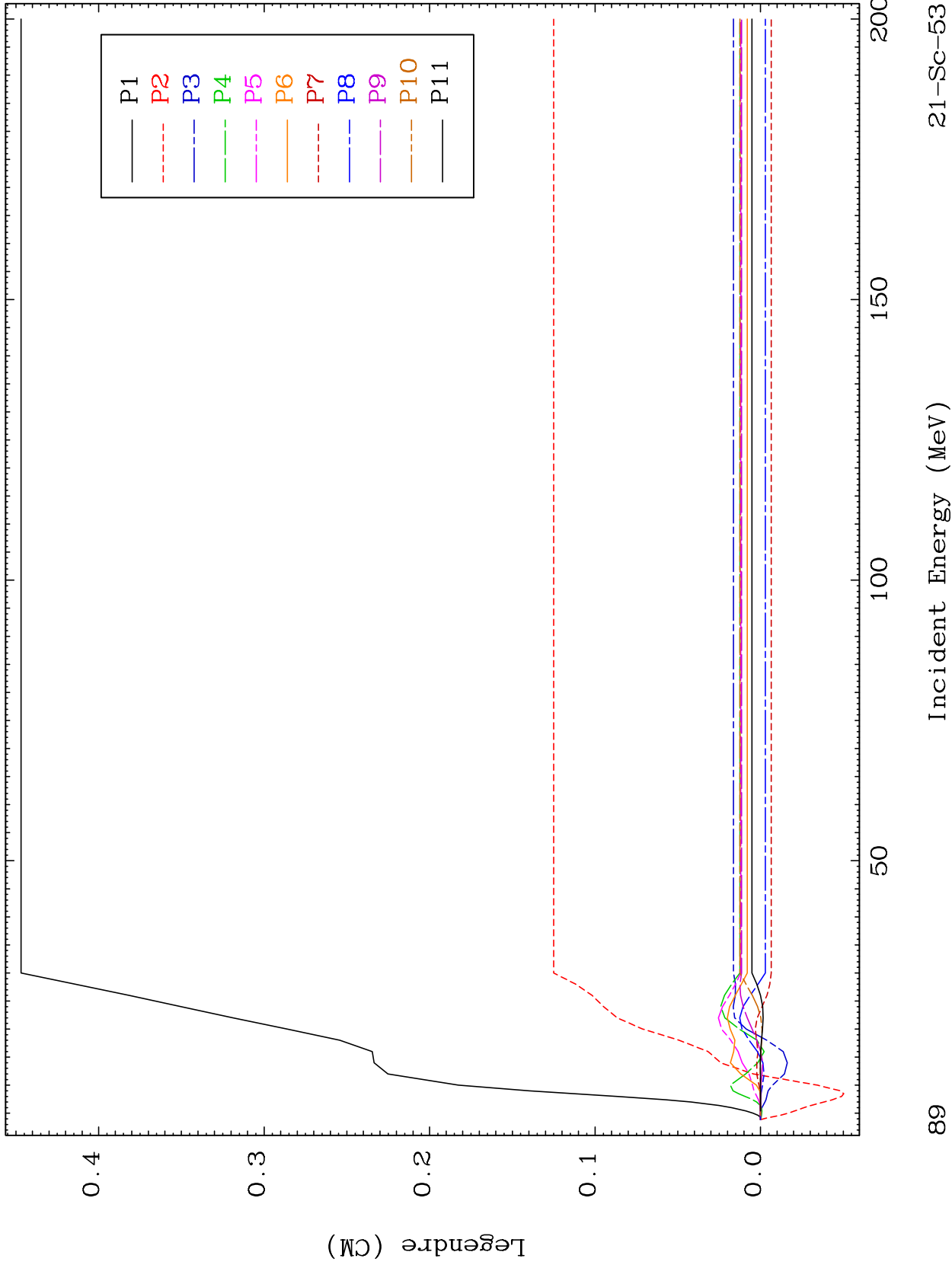




MAT 2149

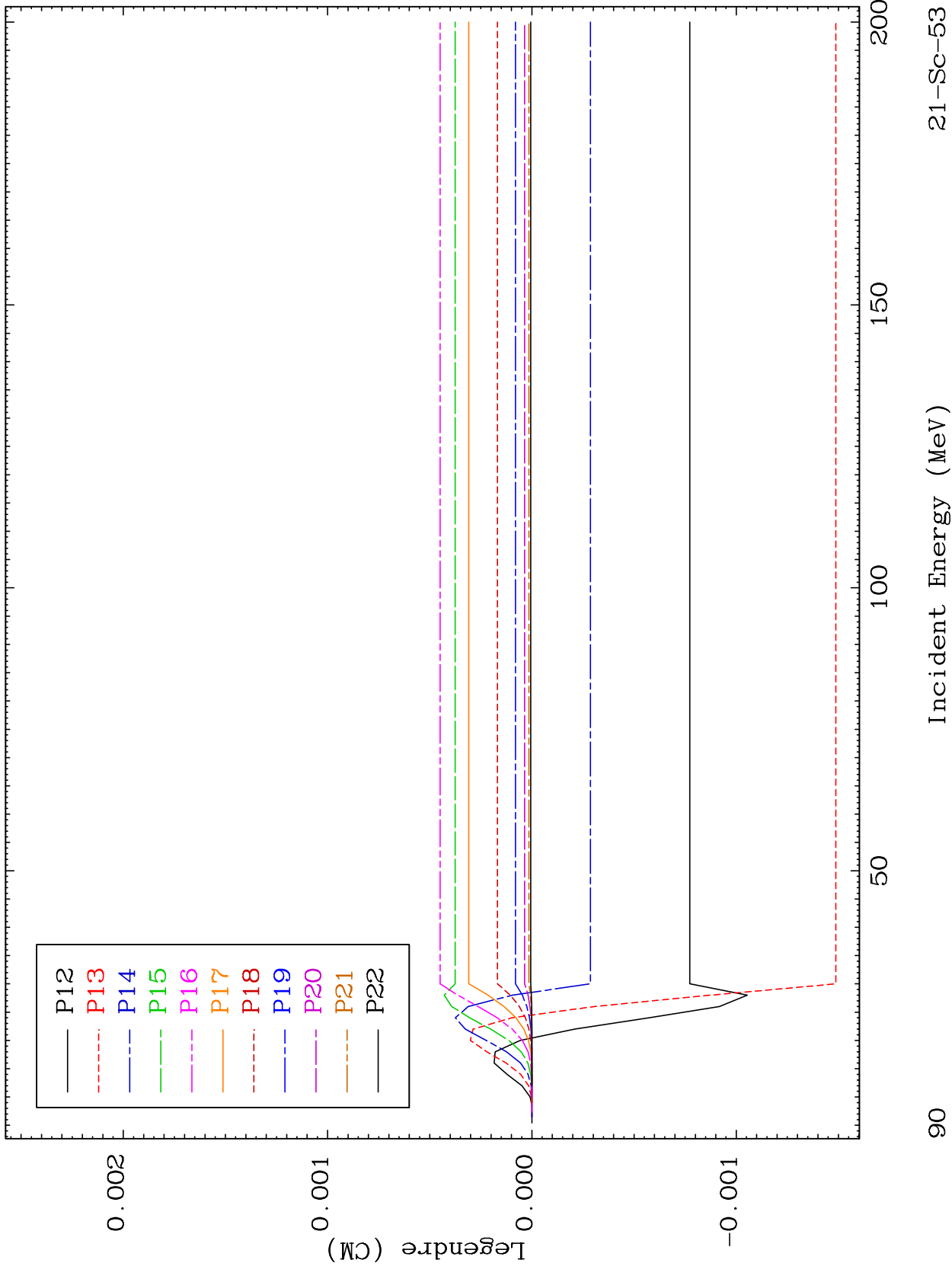
MT= 74 (n,n') Level
Legendre Coefficients

21-Sc-53



89

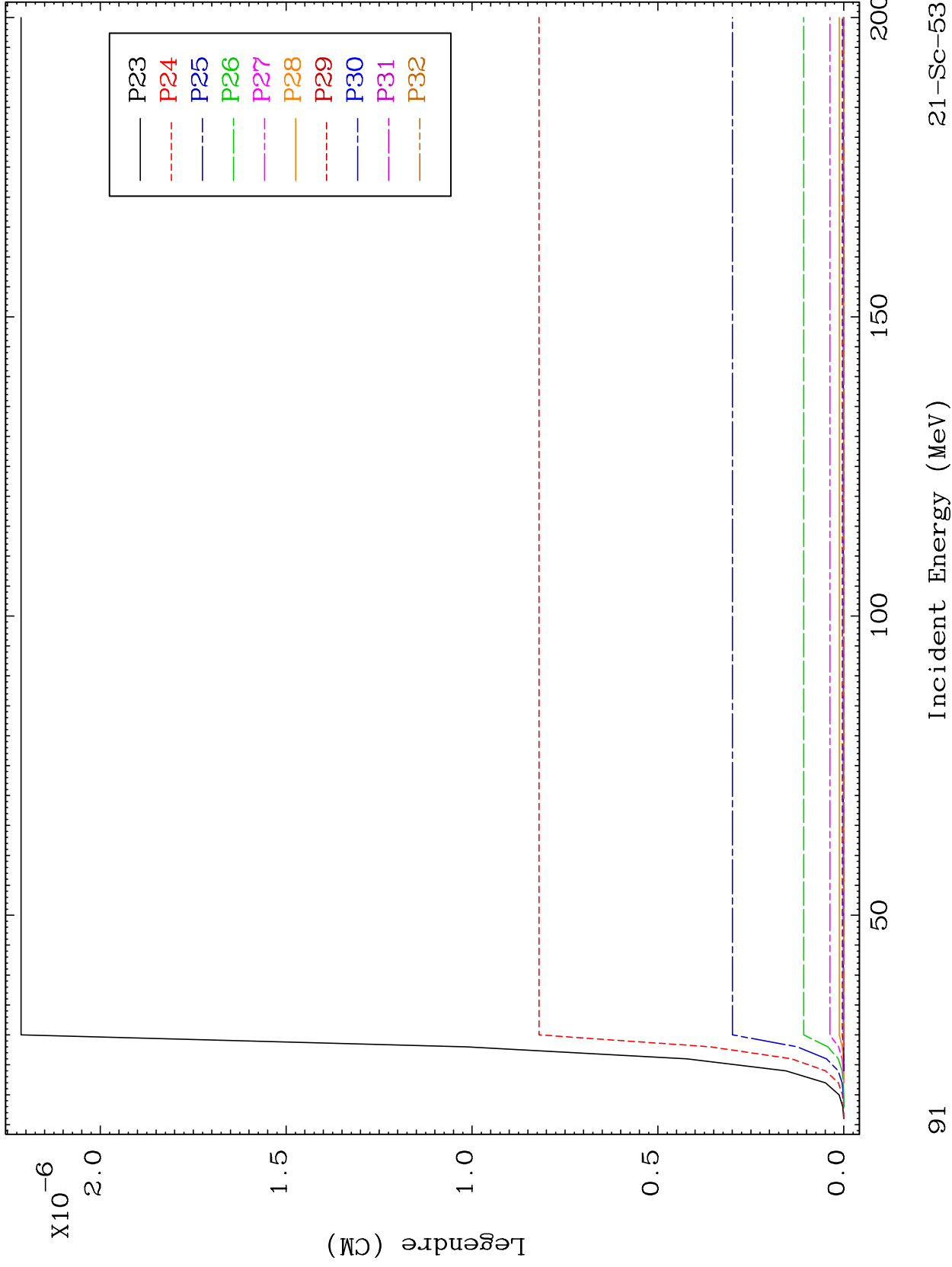
21-Sc-53



MAT 2149

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

21-Sc-53



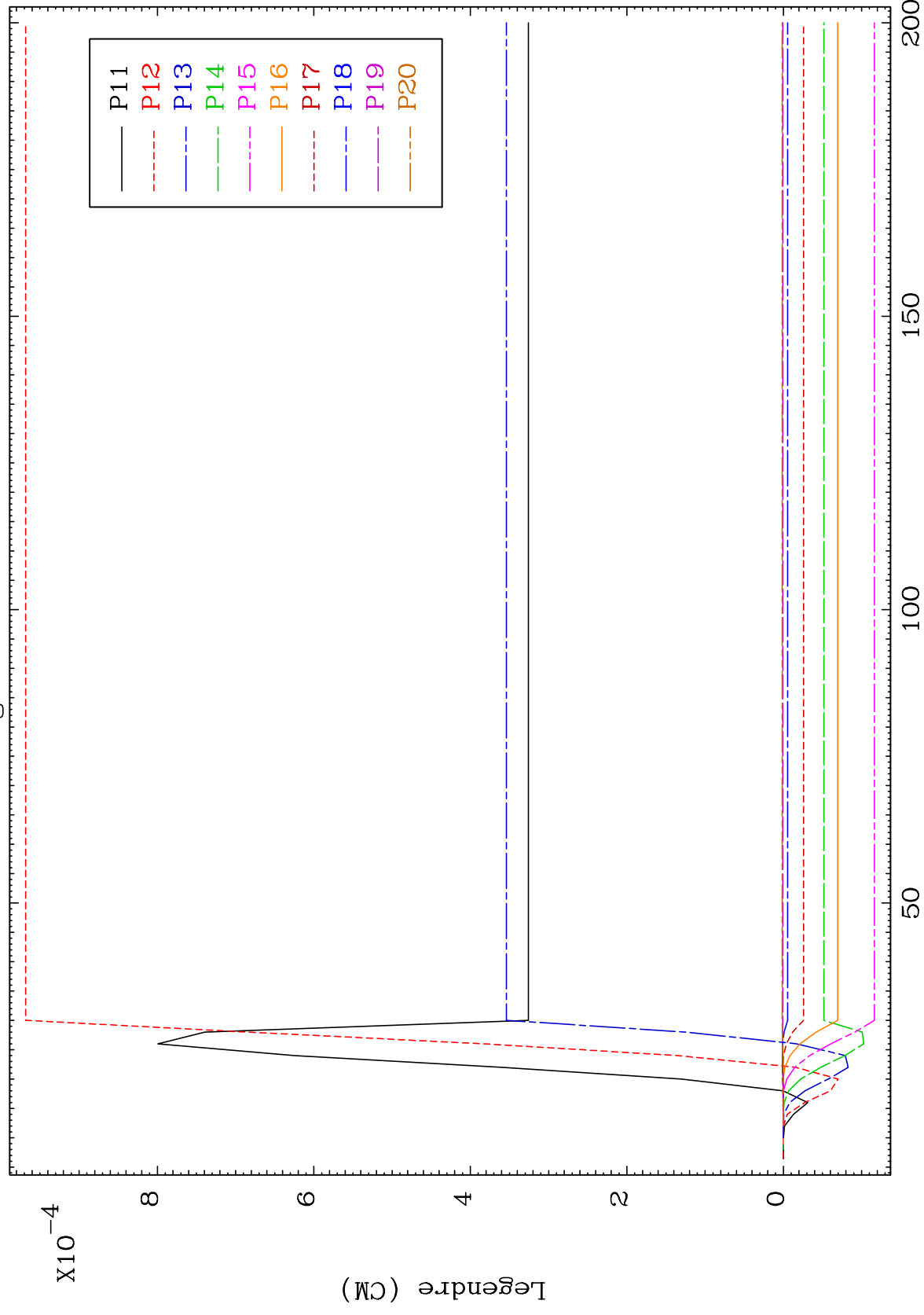
91

21-Sc-53

MAT 2149

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

21-Sc-53



93

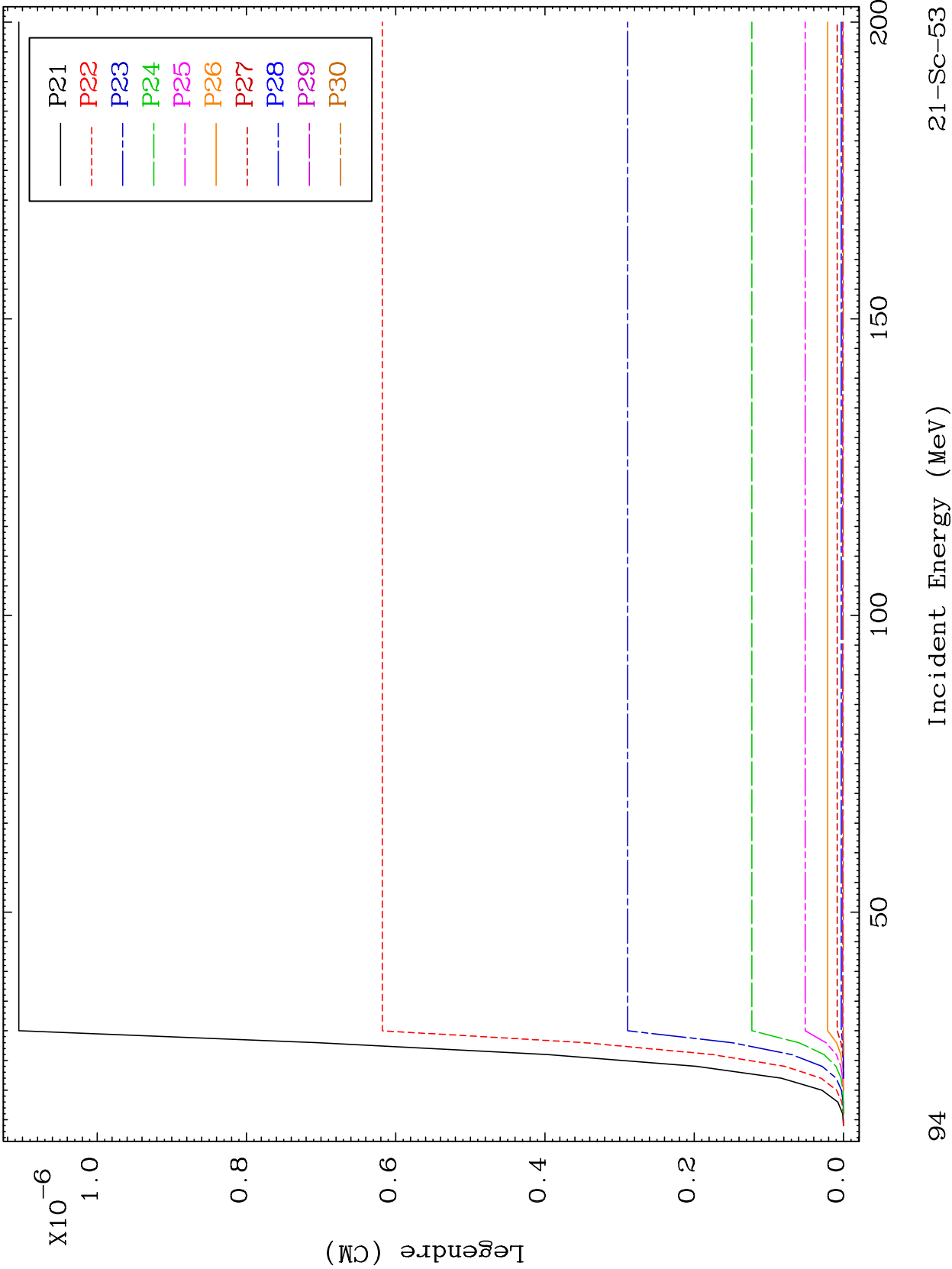
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

21-Sc-53



94

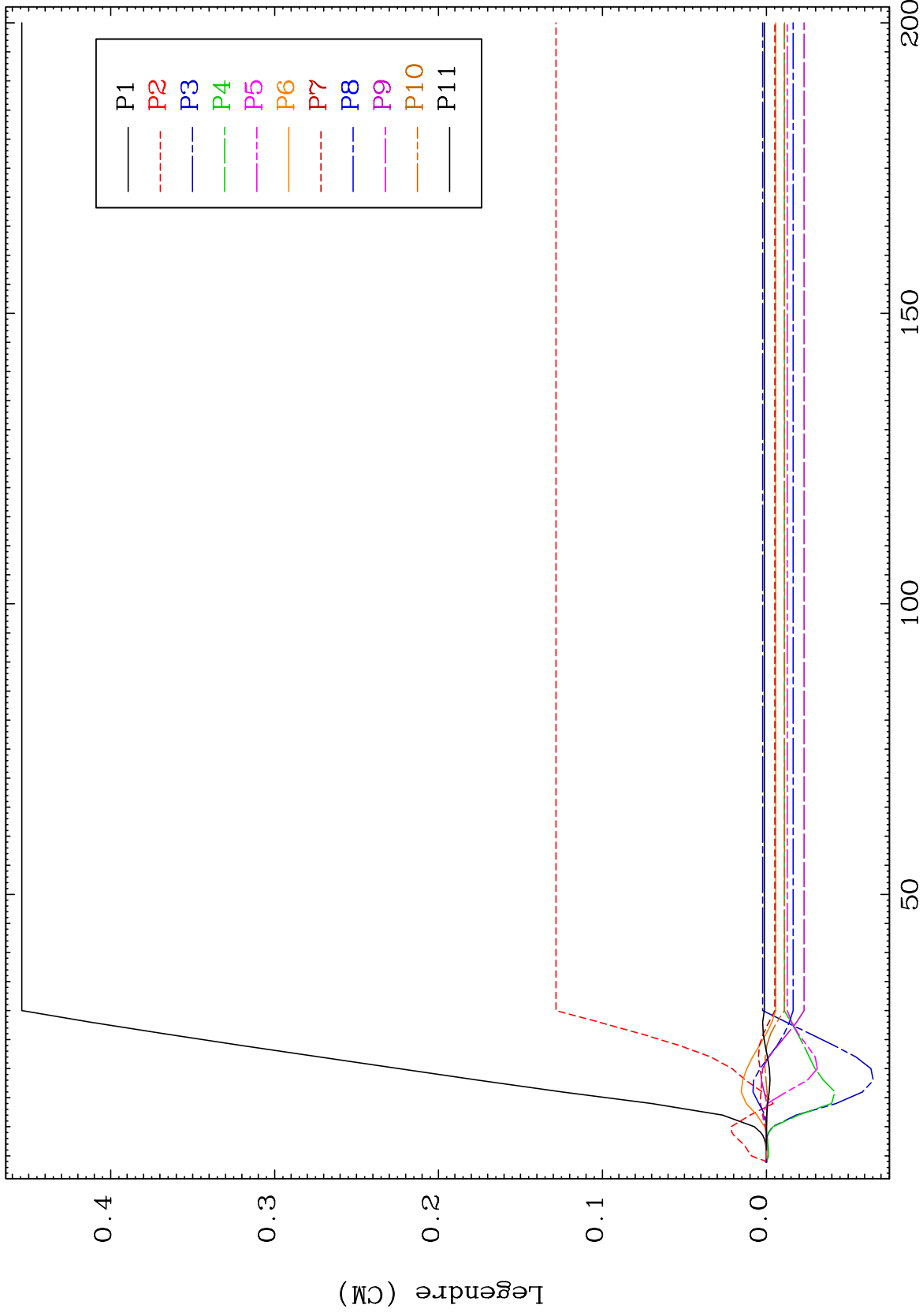
Incident Energy (MeV)

21-Sc-53

MAT 2149

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

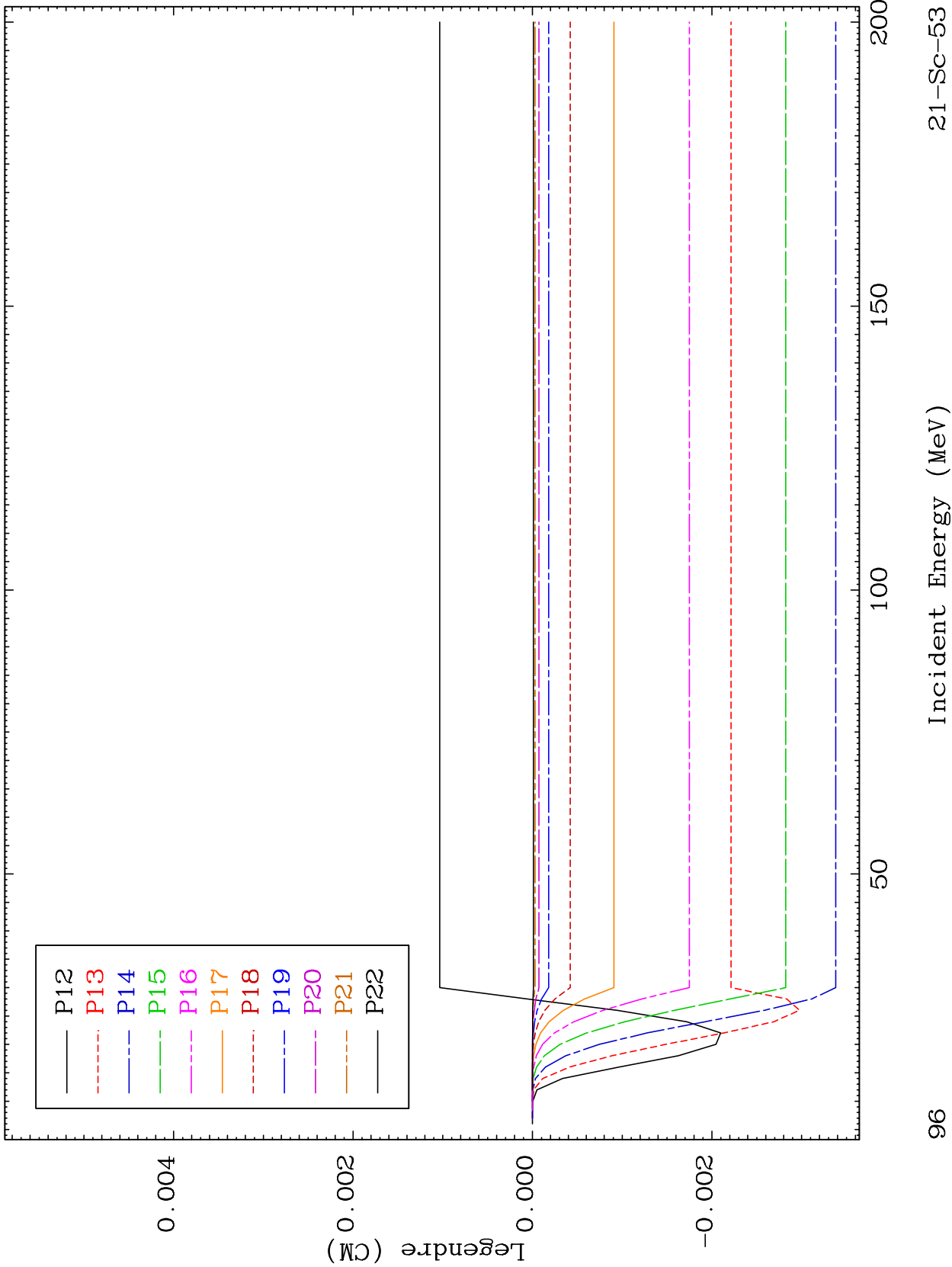
21-Sc-53



95

Incident Energy (MeV)

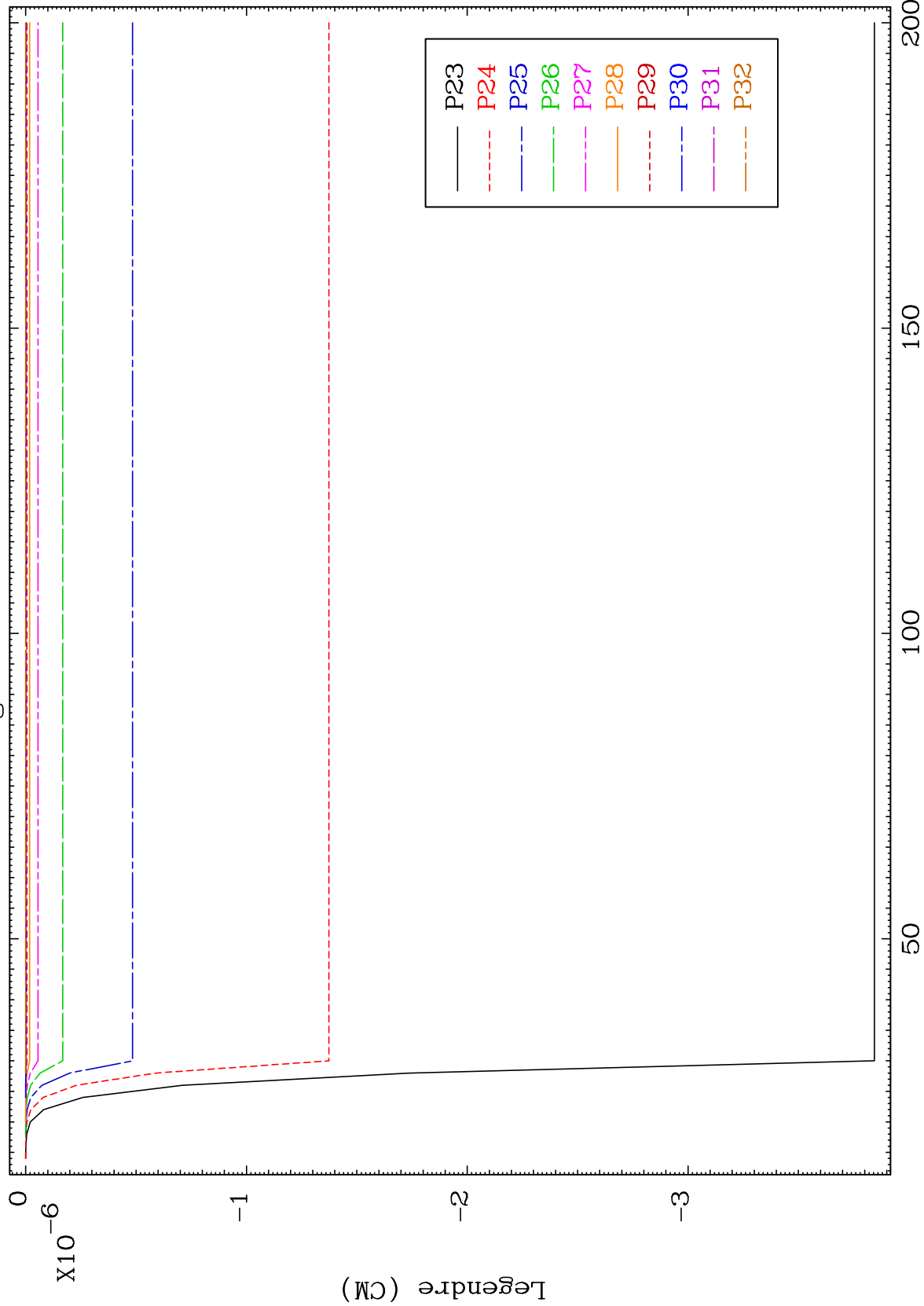
21-Sc-53



MAT 2149

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

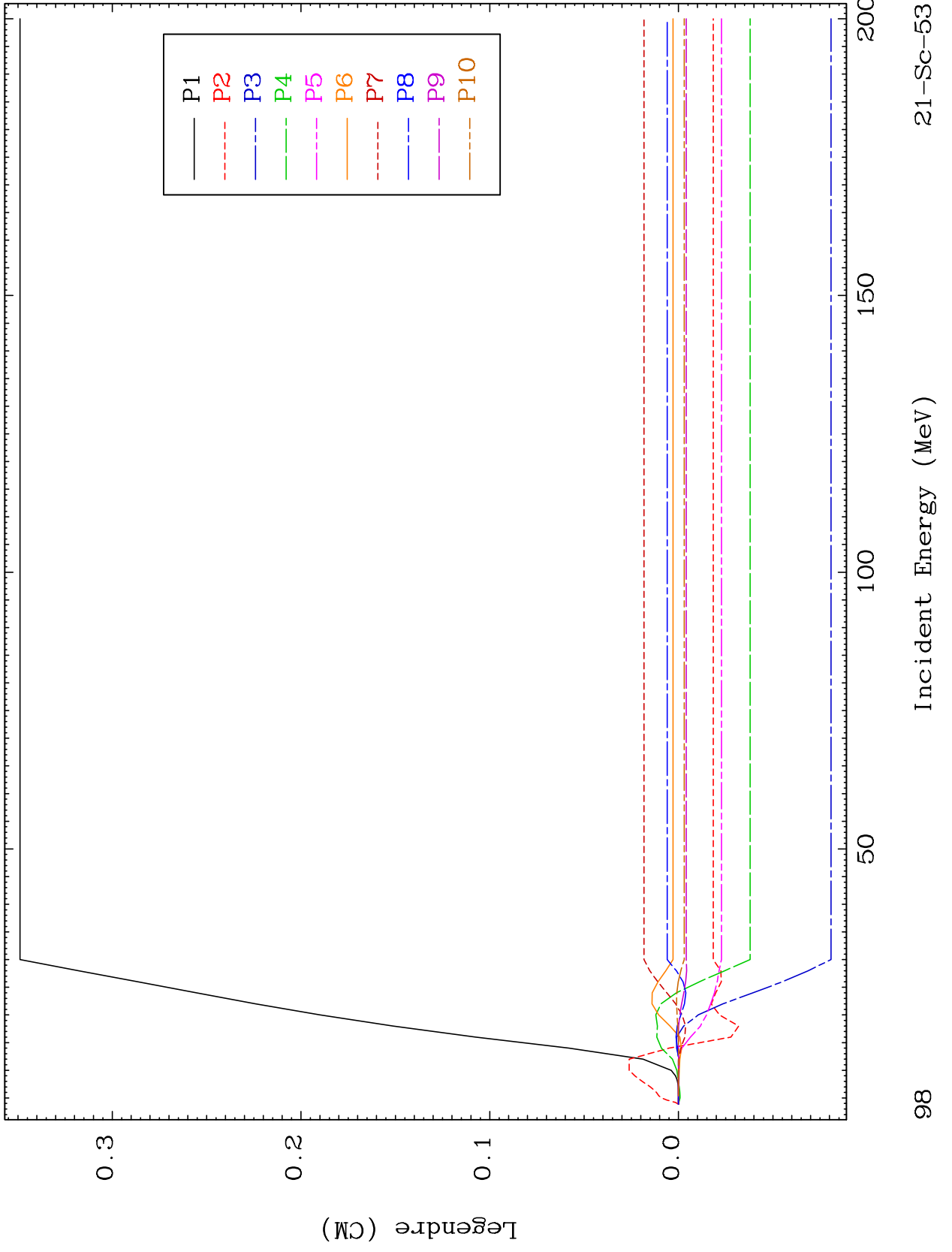
21-Sc-53



97

Incident Energy (MeV)

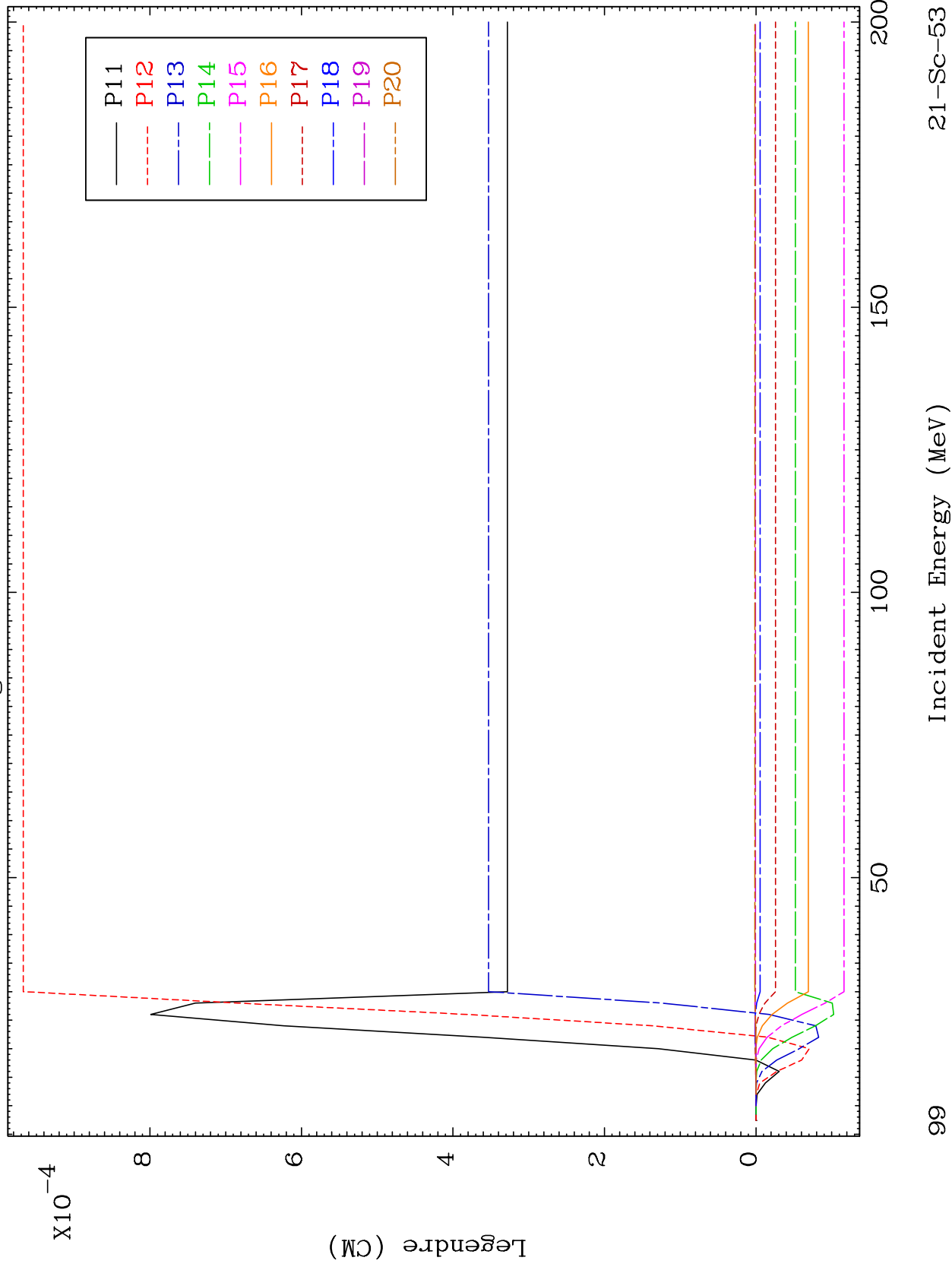
21-Sc-53



MAT 2149

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

21-Sc-53



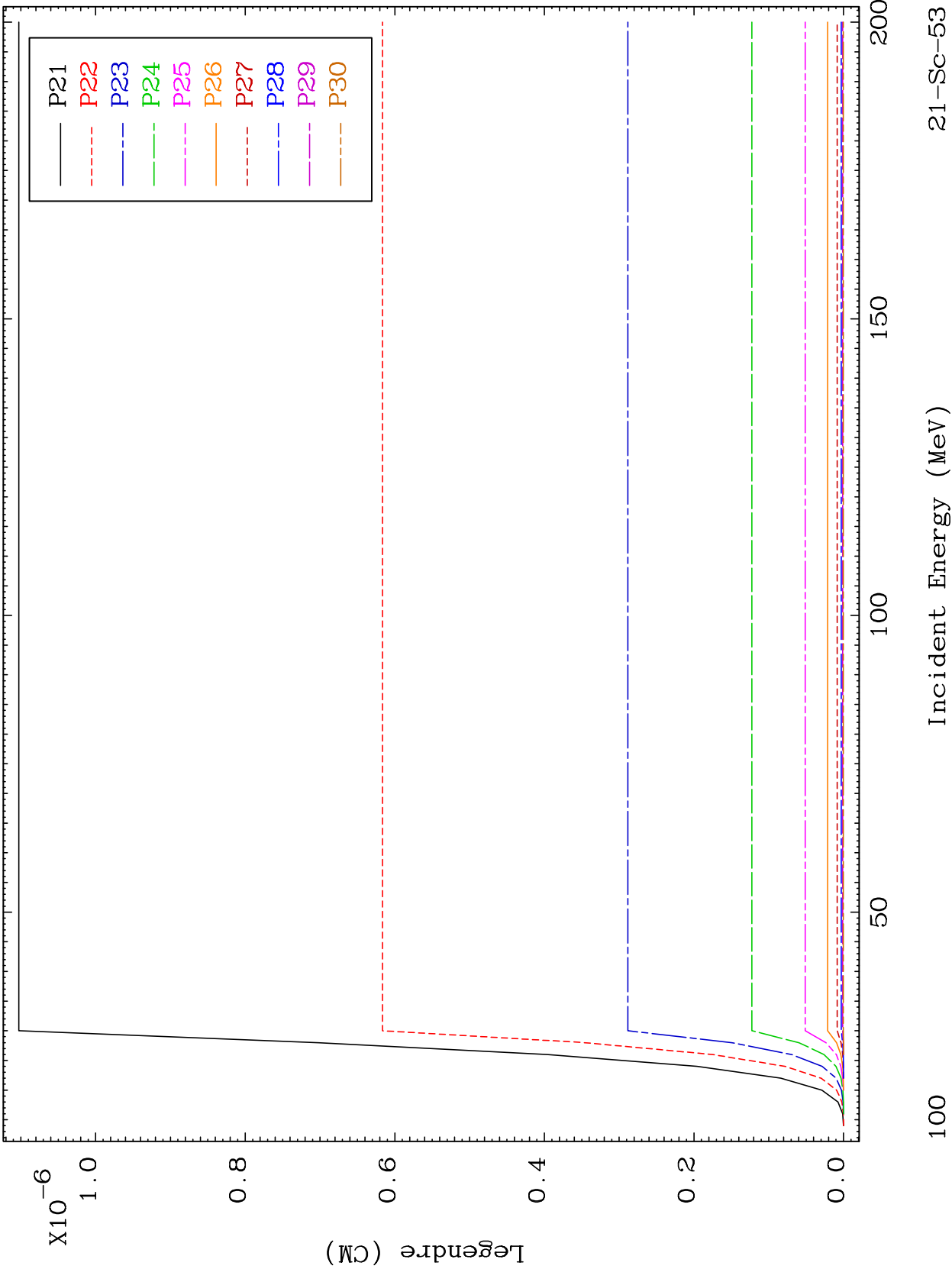
99

21-Sc-53

MAT 2149

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

21-Sc-53



21-Sc-53

Incident Energy (MeV)

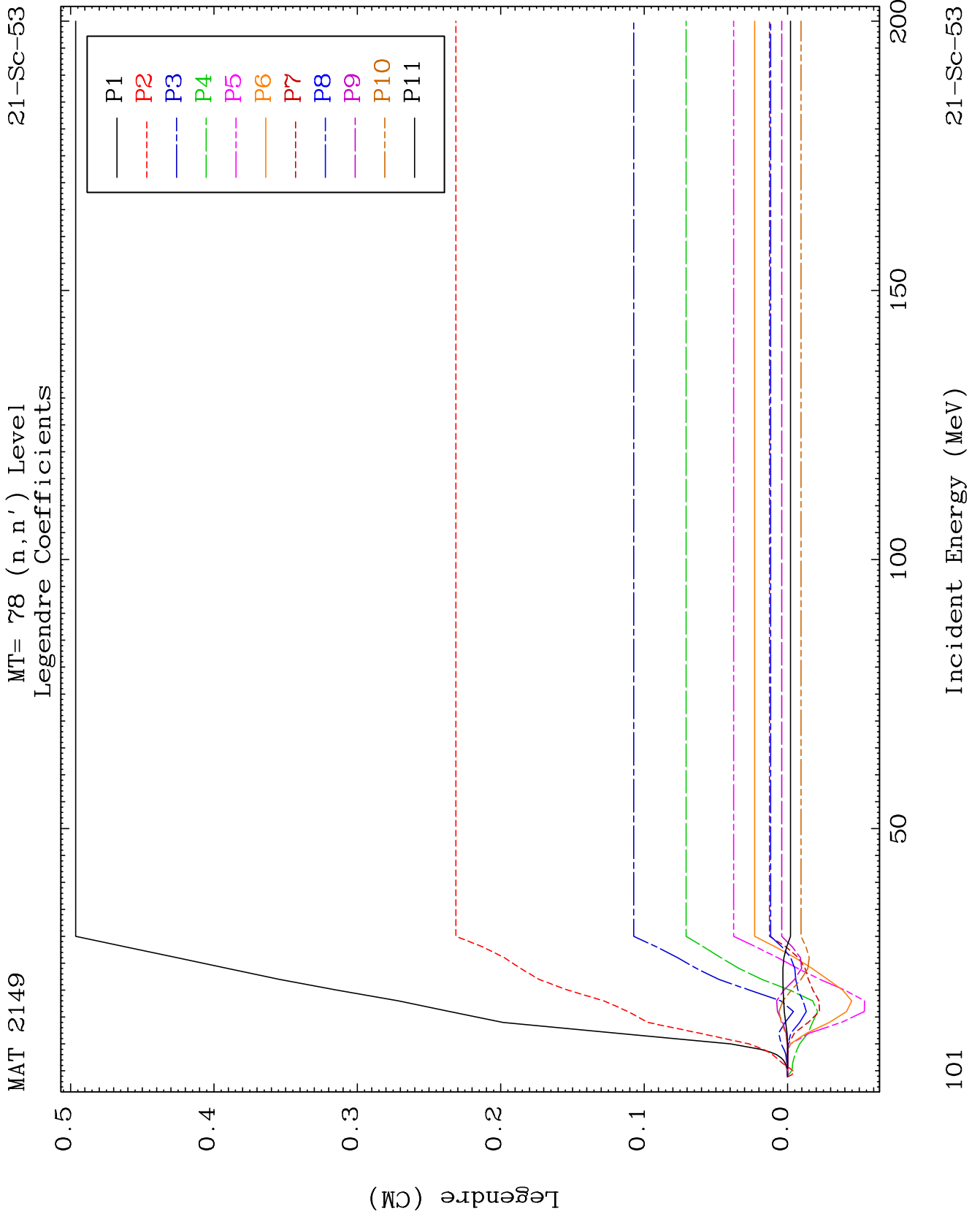
100

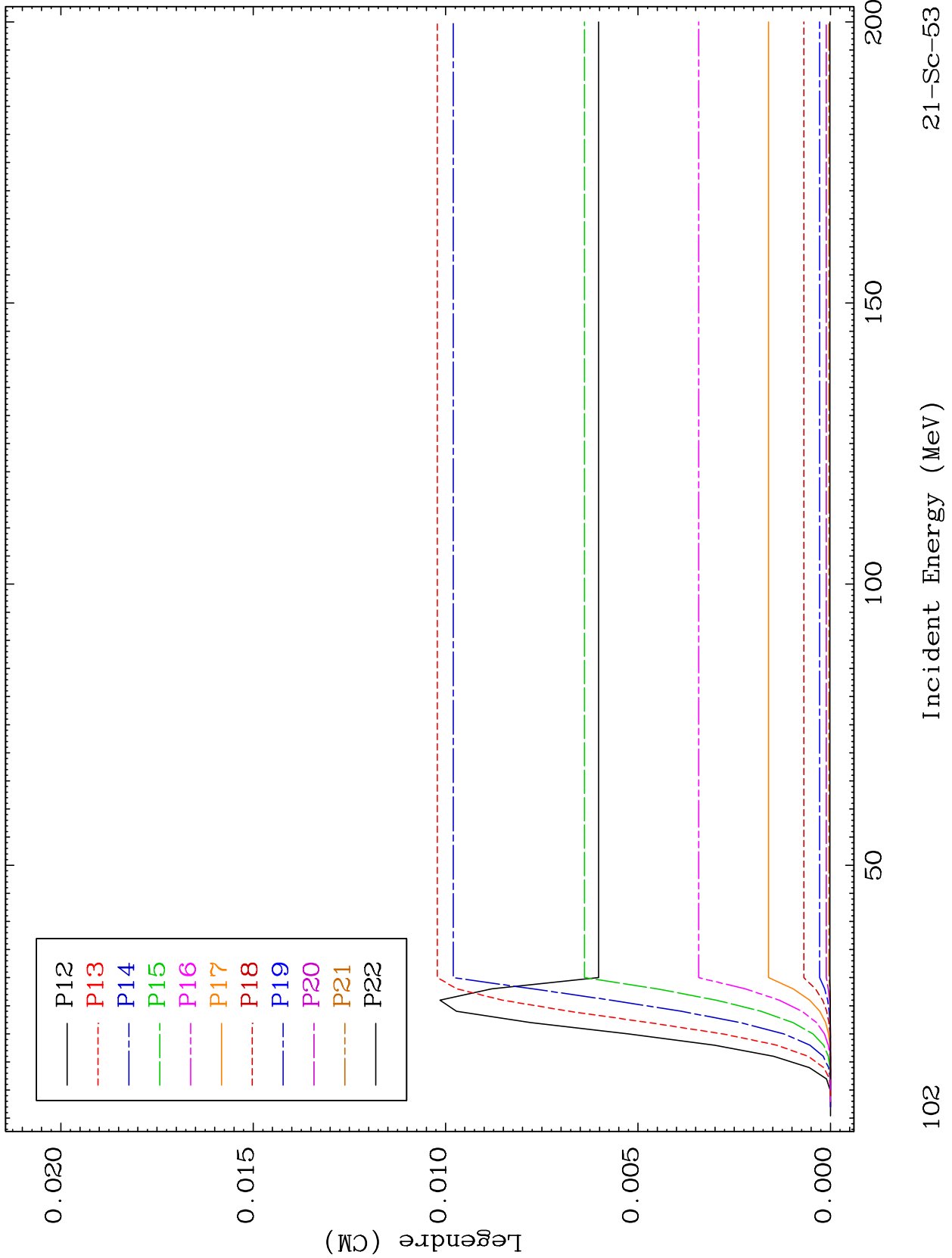
50

100

150

200

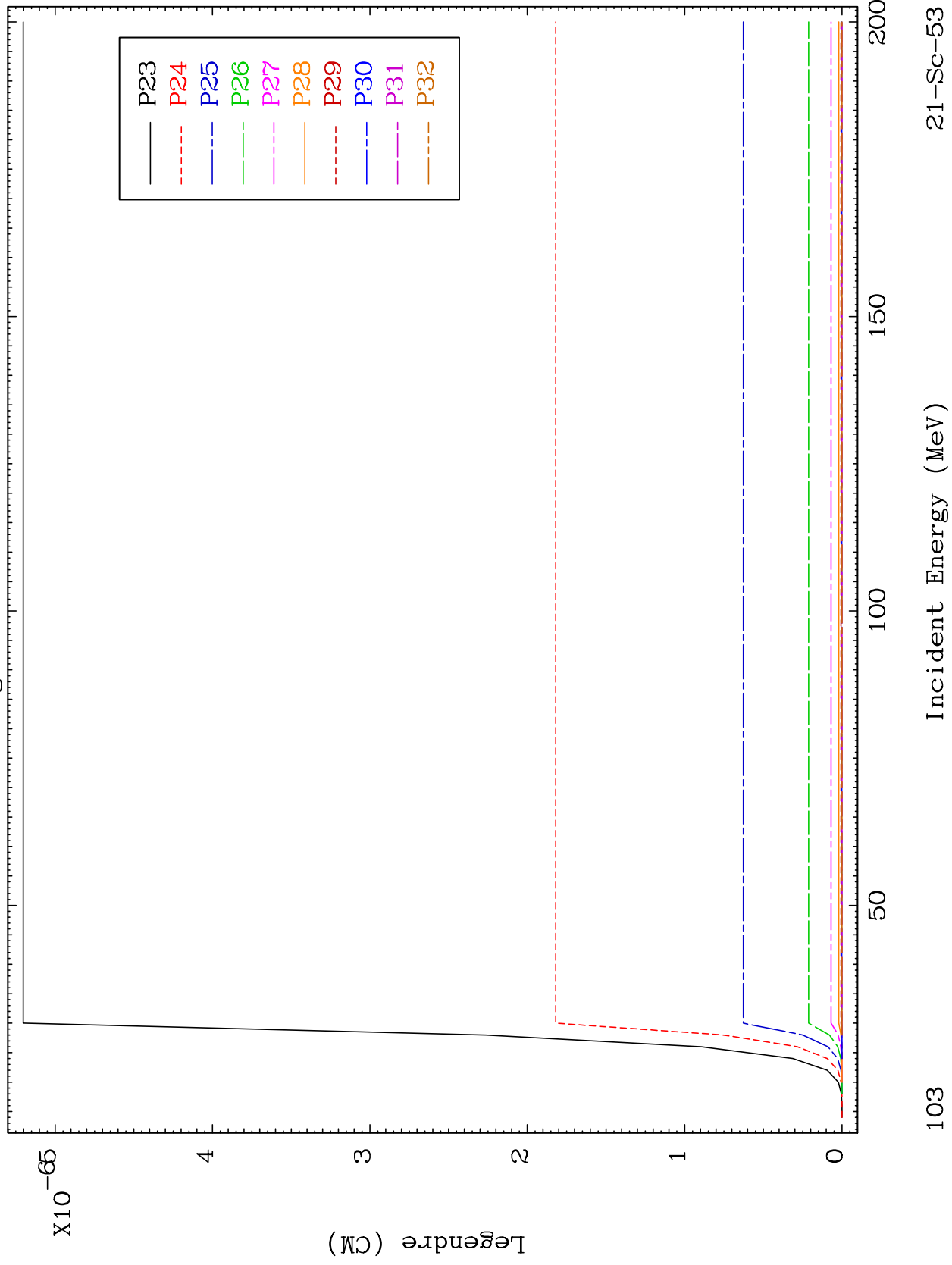




MAT 2149

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

21-Sc-53



103

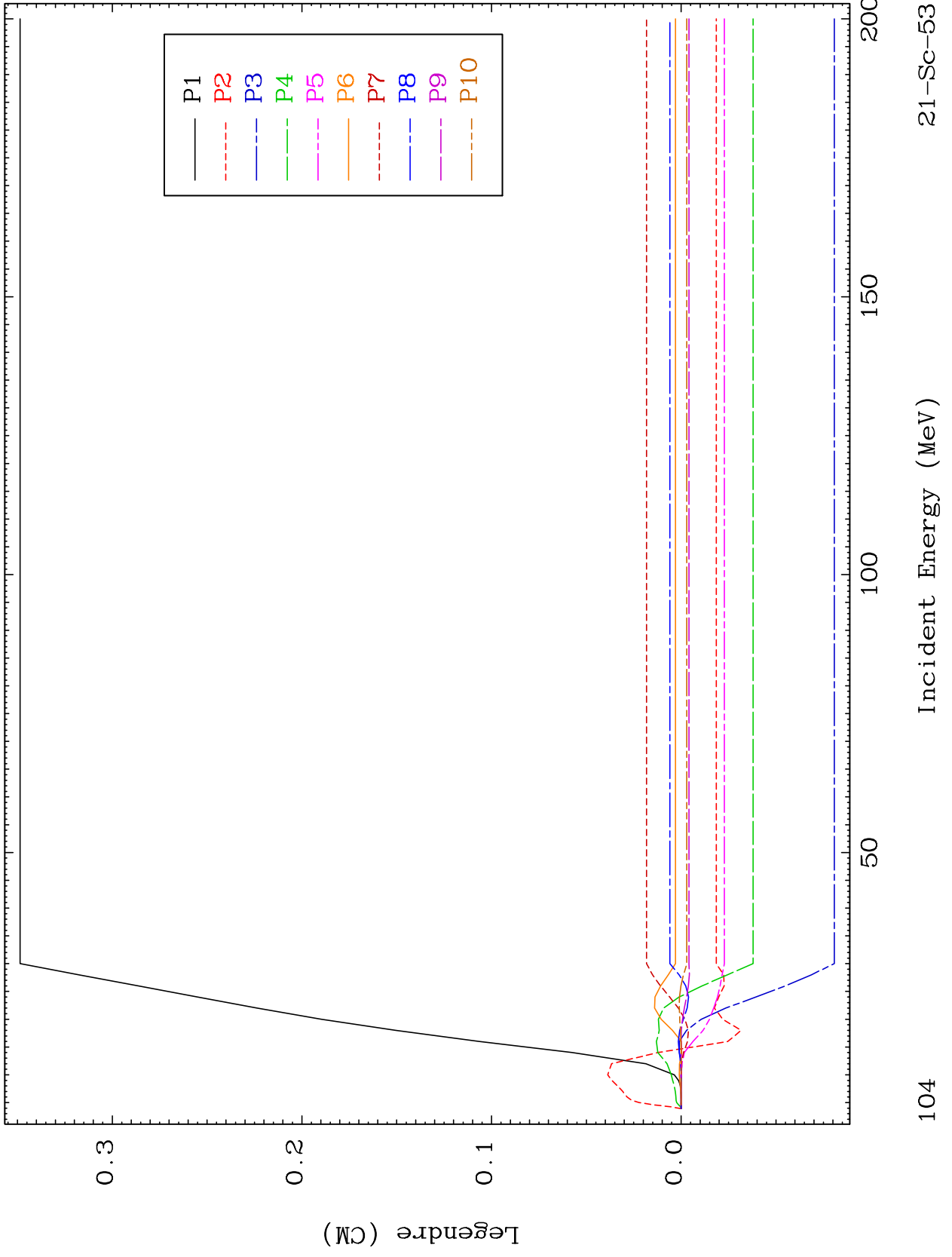
Incident Energy (MeV)

21-Sc-53

MAT 2149

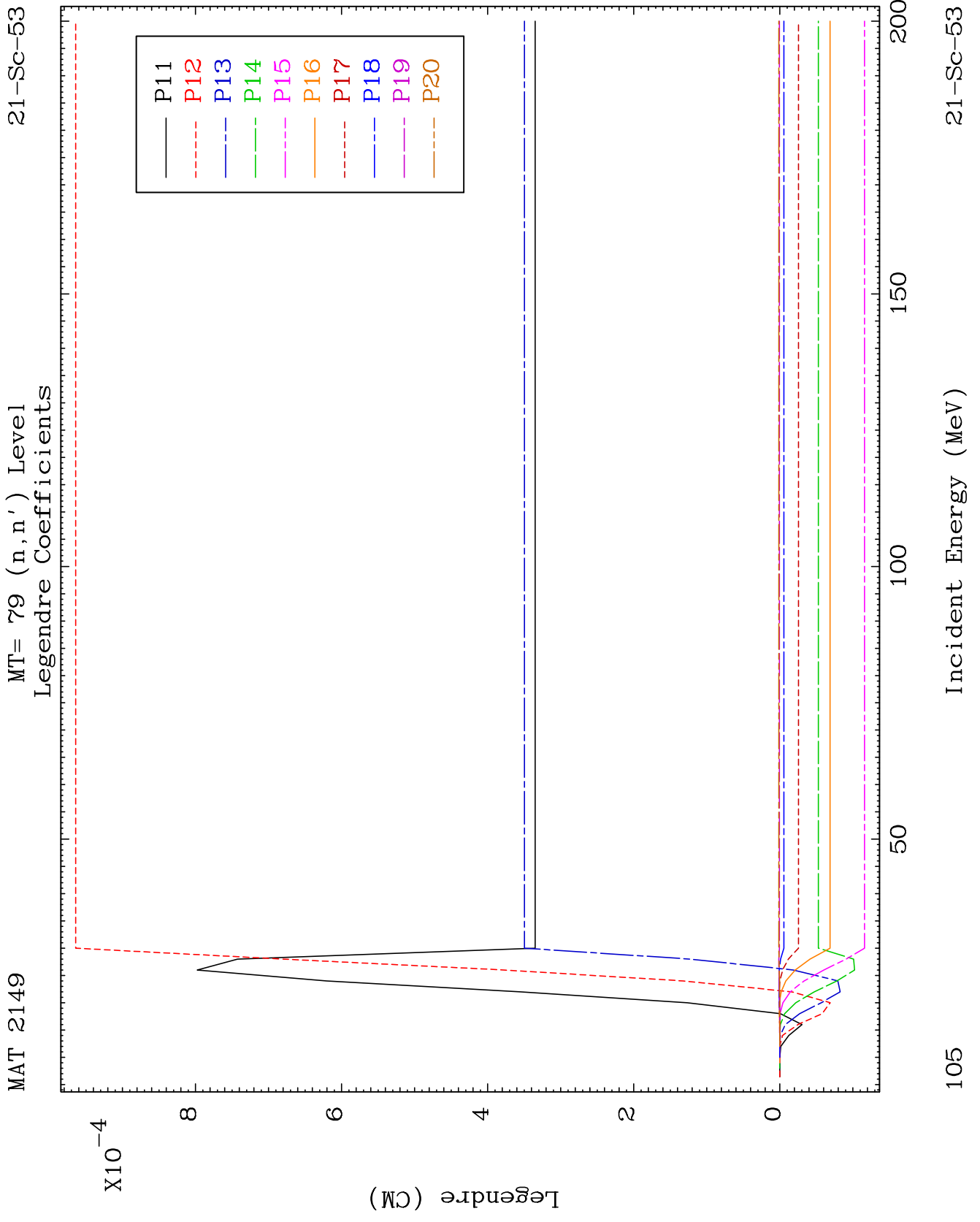
MT= 79 (n,n') Level
Legendre Coefficients

21-Sc-53



104

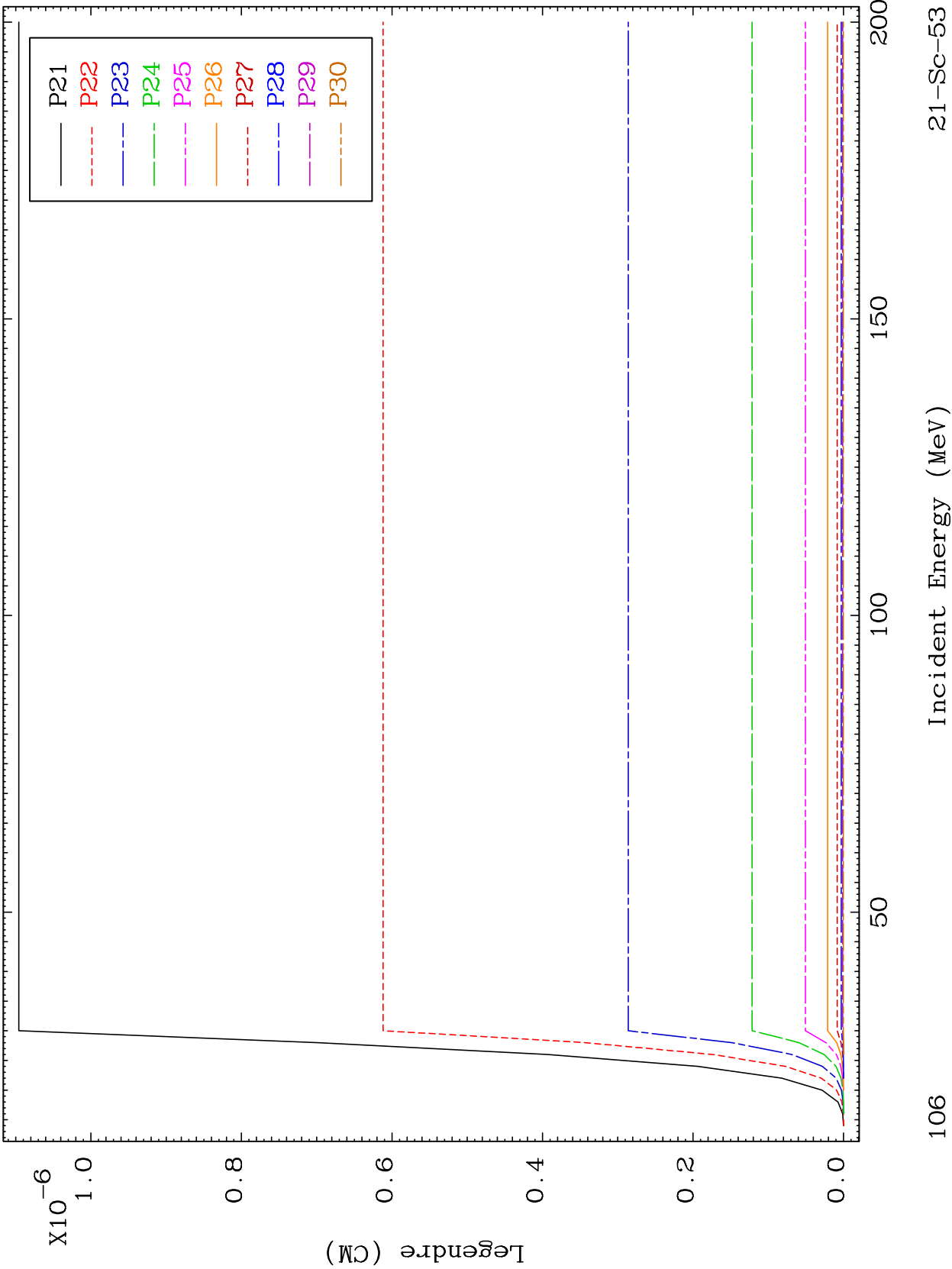
21-Sc-53



MAT 2149

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

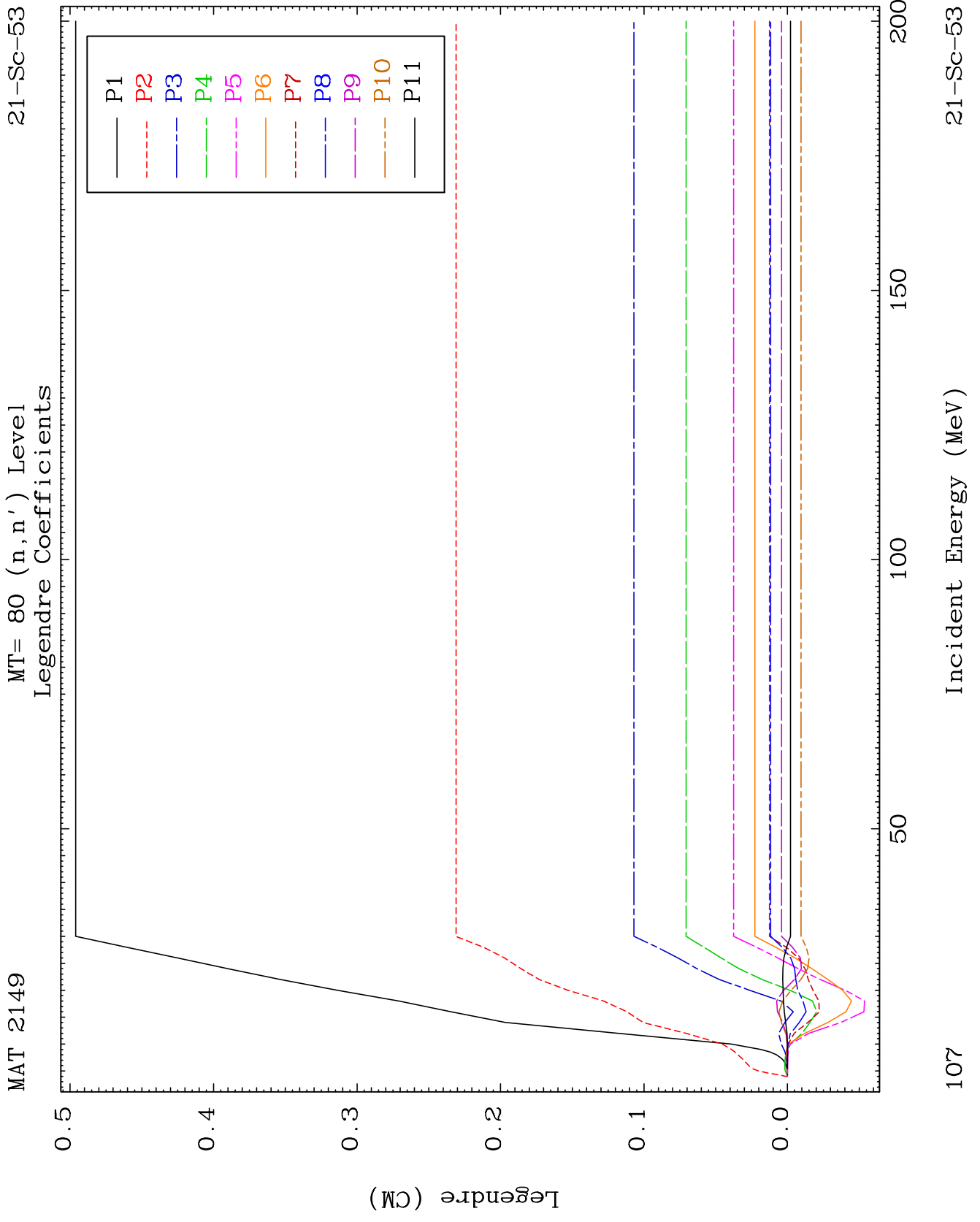
21-Sc-53

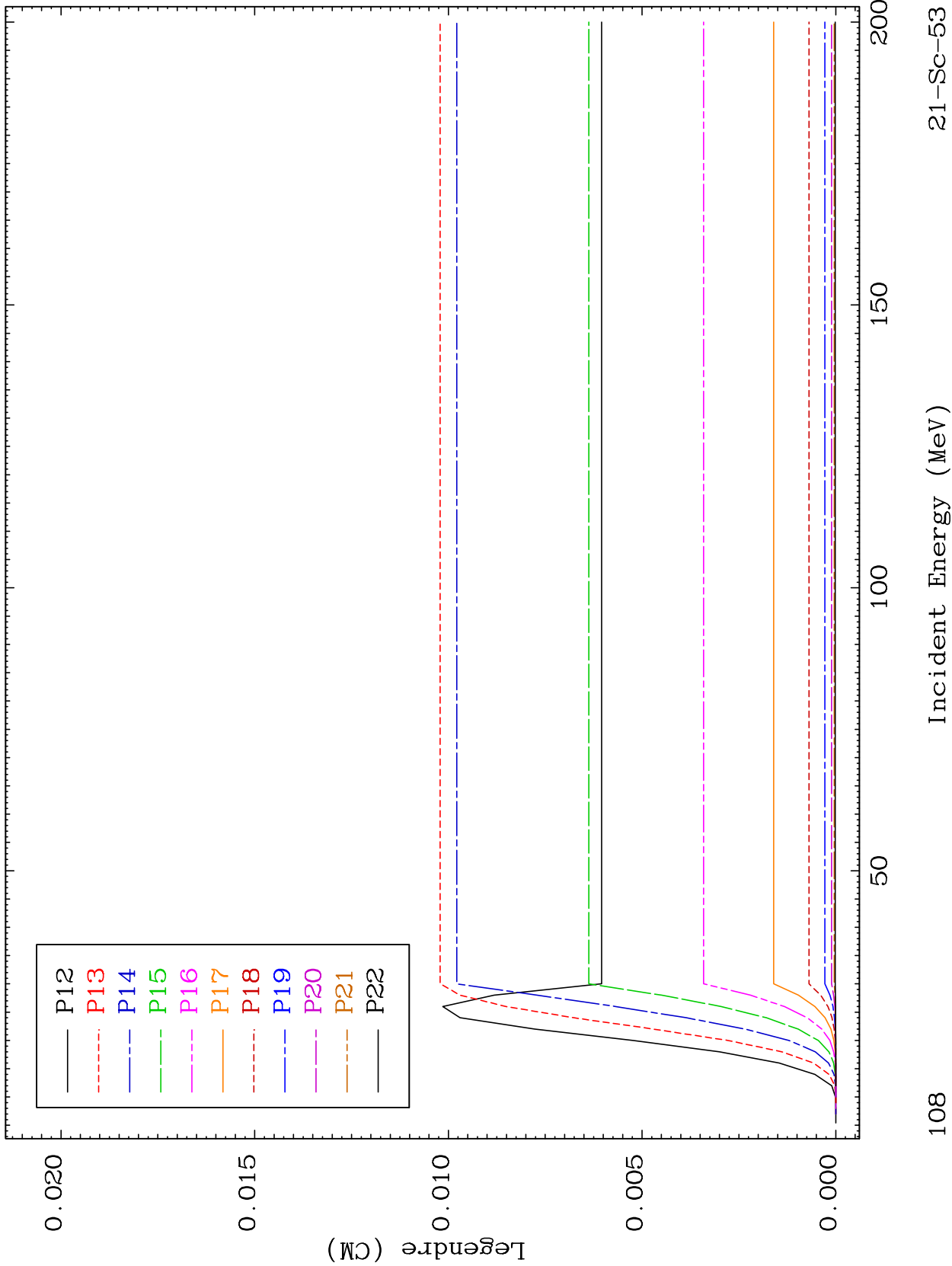


106

Incident Energy (MeV)

21-Sc-53

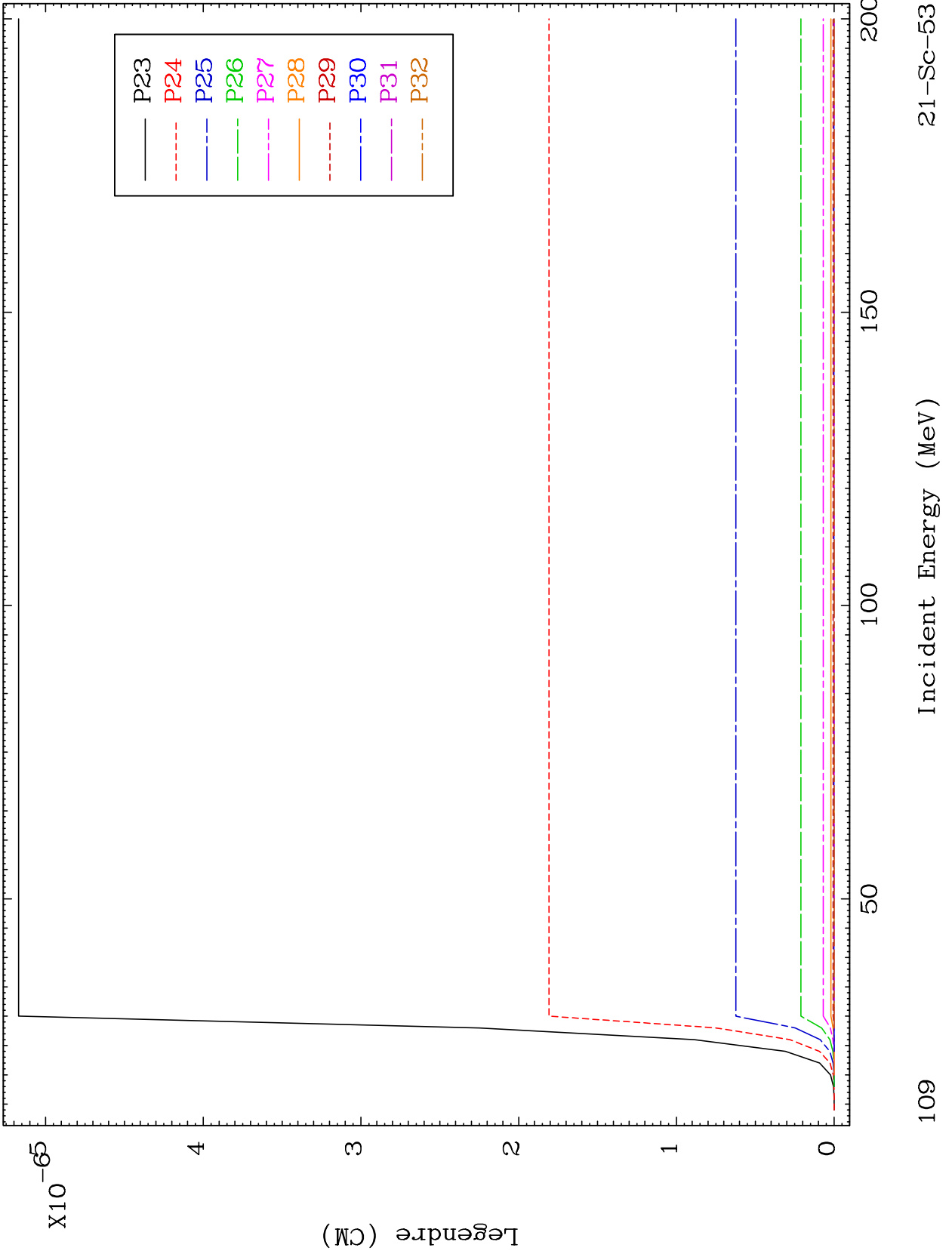




MAT 2149

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

21-Sc-53

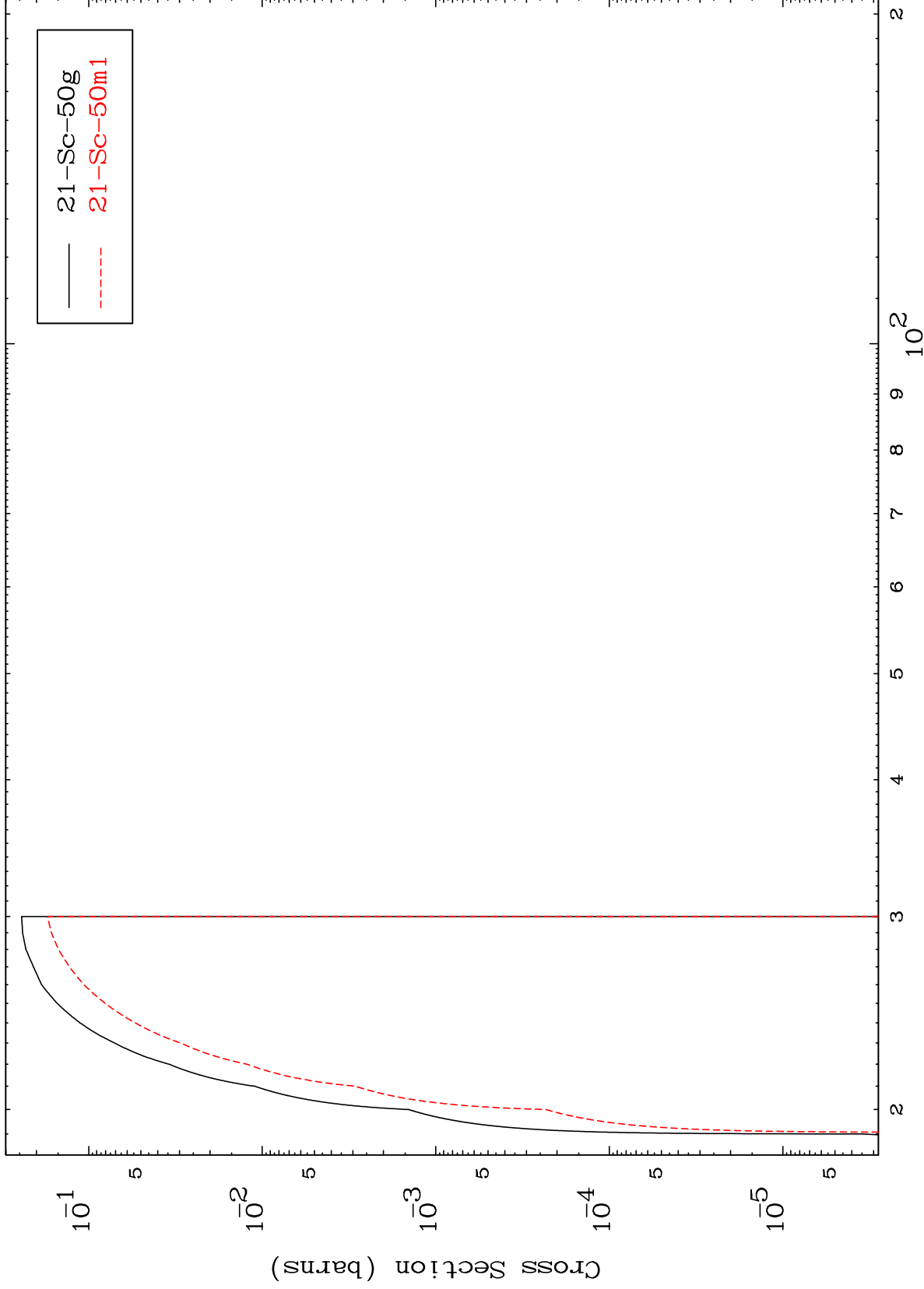


MAT 2149

(n,4n)

21-Sc-53

Radionuclide Production Cross Section



110

Incident Energy (MeV)

21-Sc-53