

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

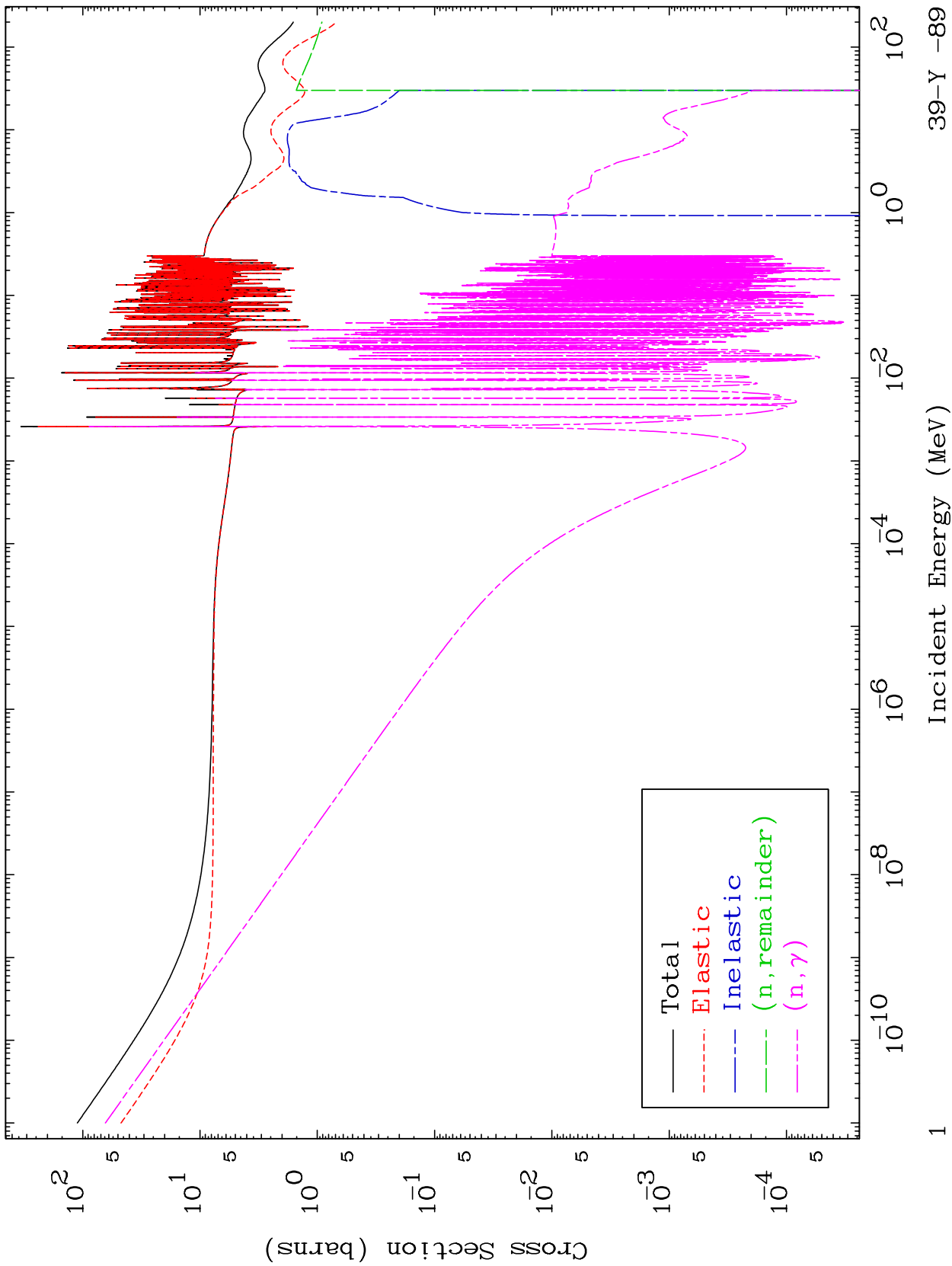
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

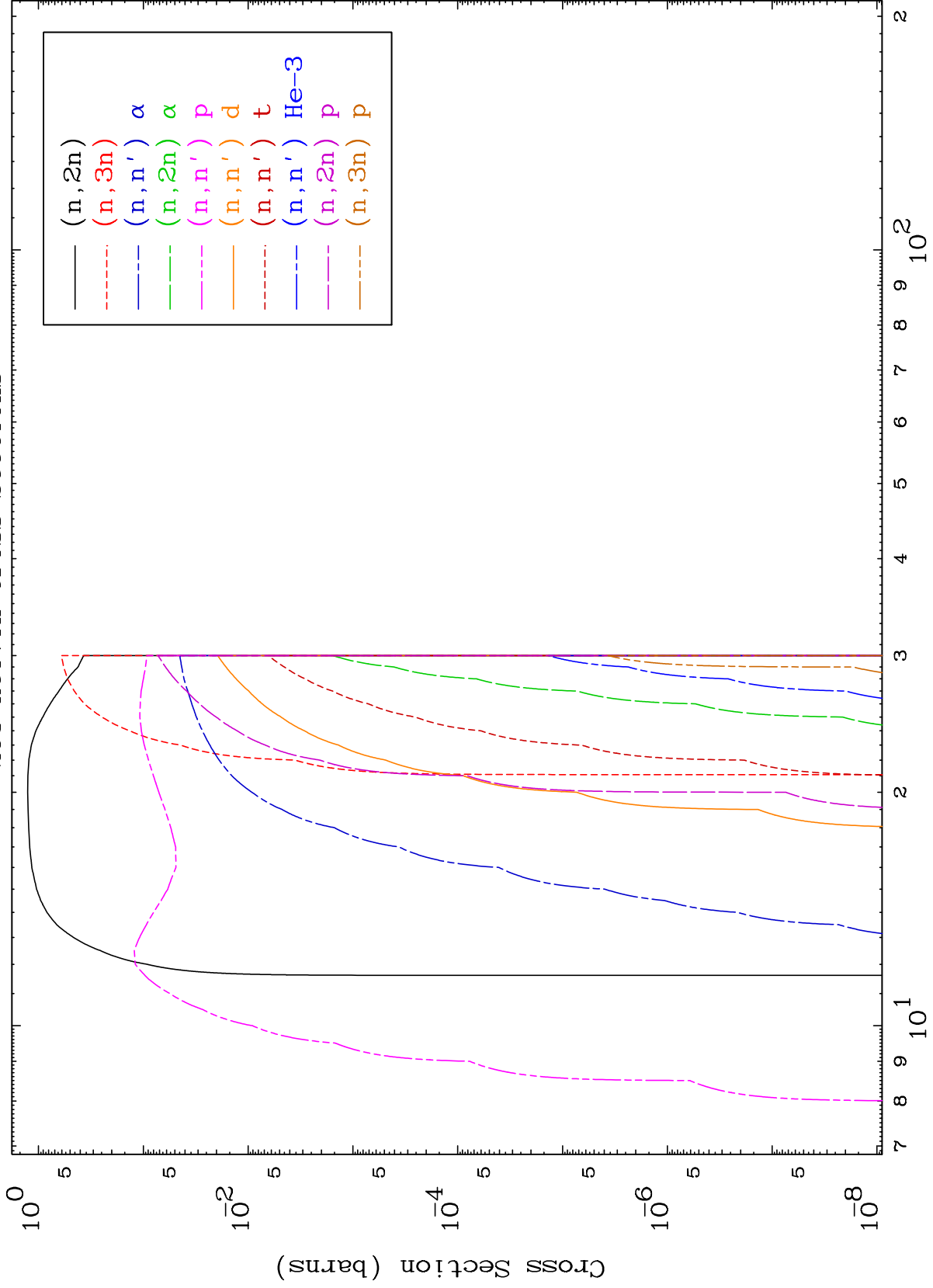
MAT 3925

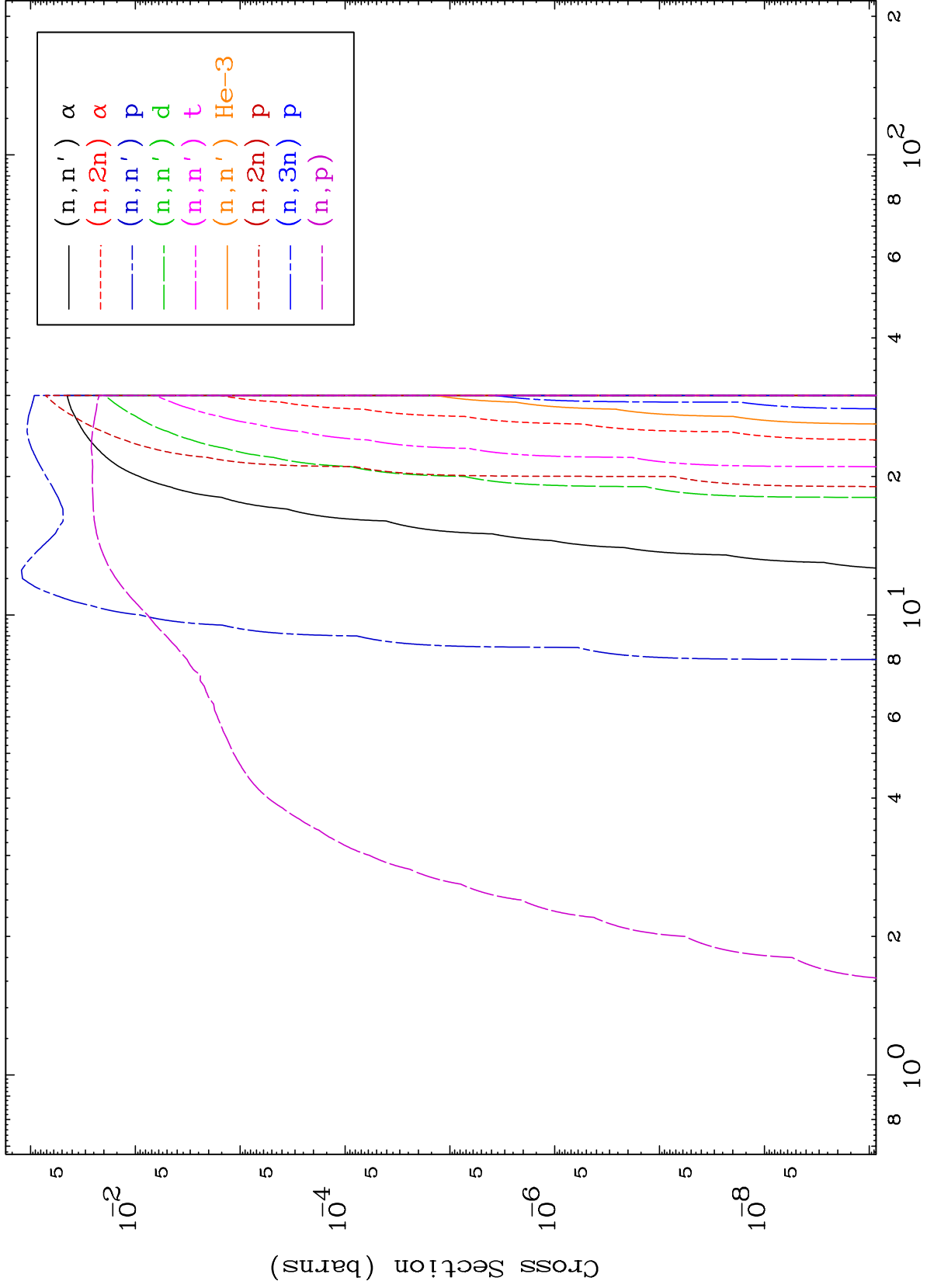
Major  
293 Kelvin Cross Sections

39-Y -89



Neutron Production  
293 Kelvin Cross Sections

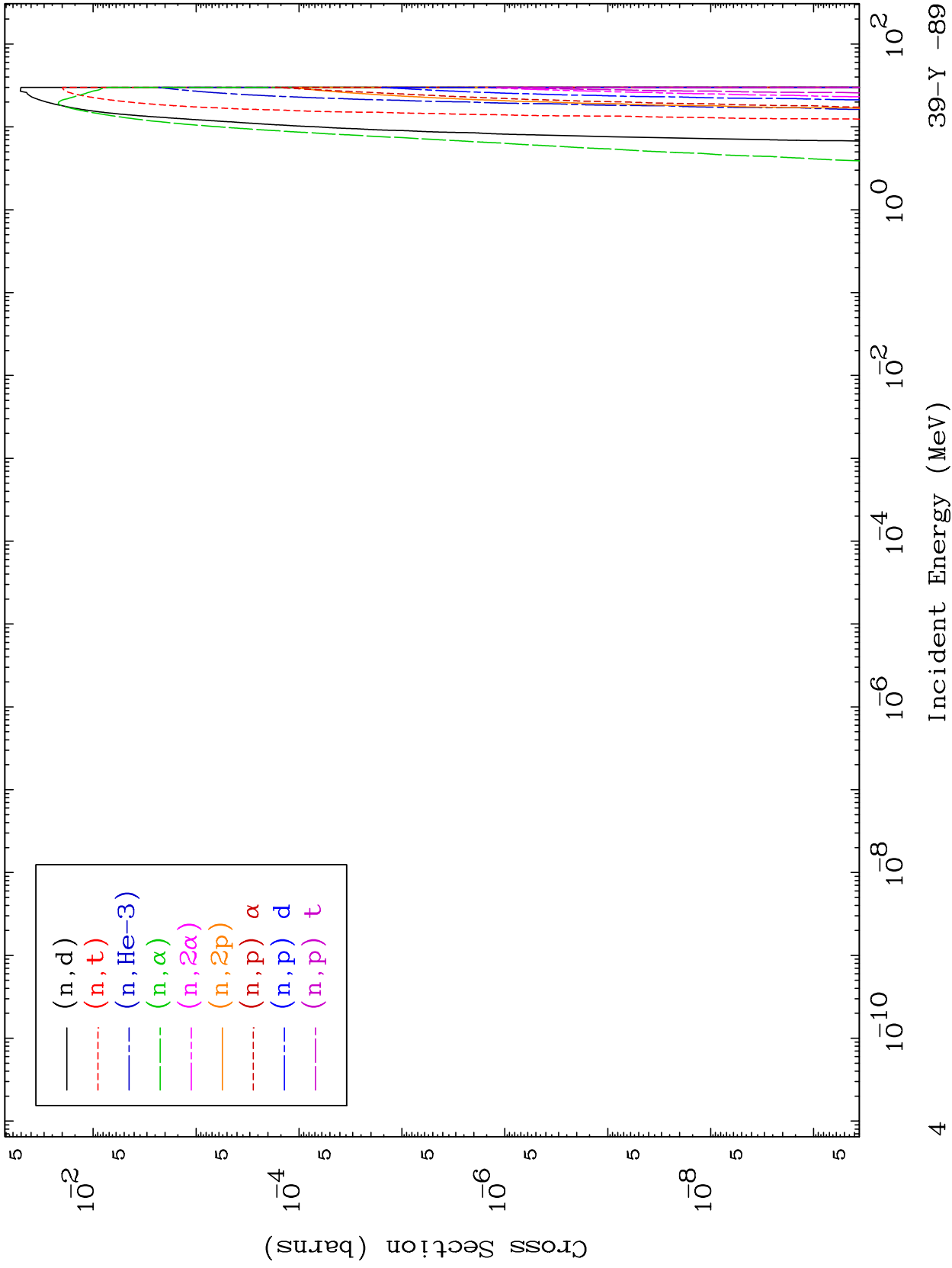




MAT 3925

Charged Particle  
293 Kelvin Cross Sections

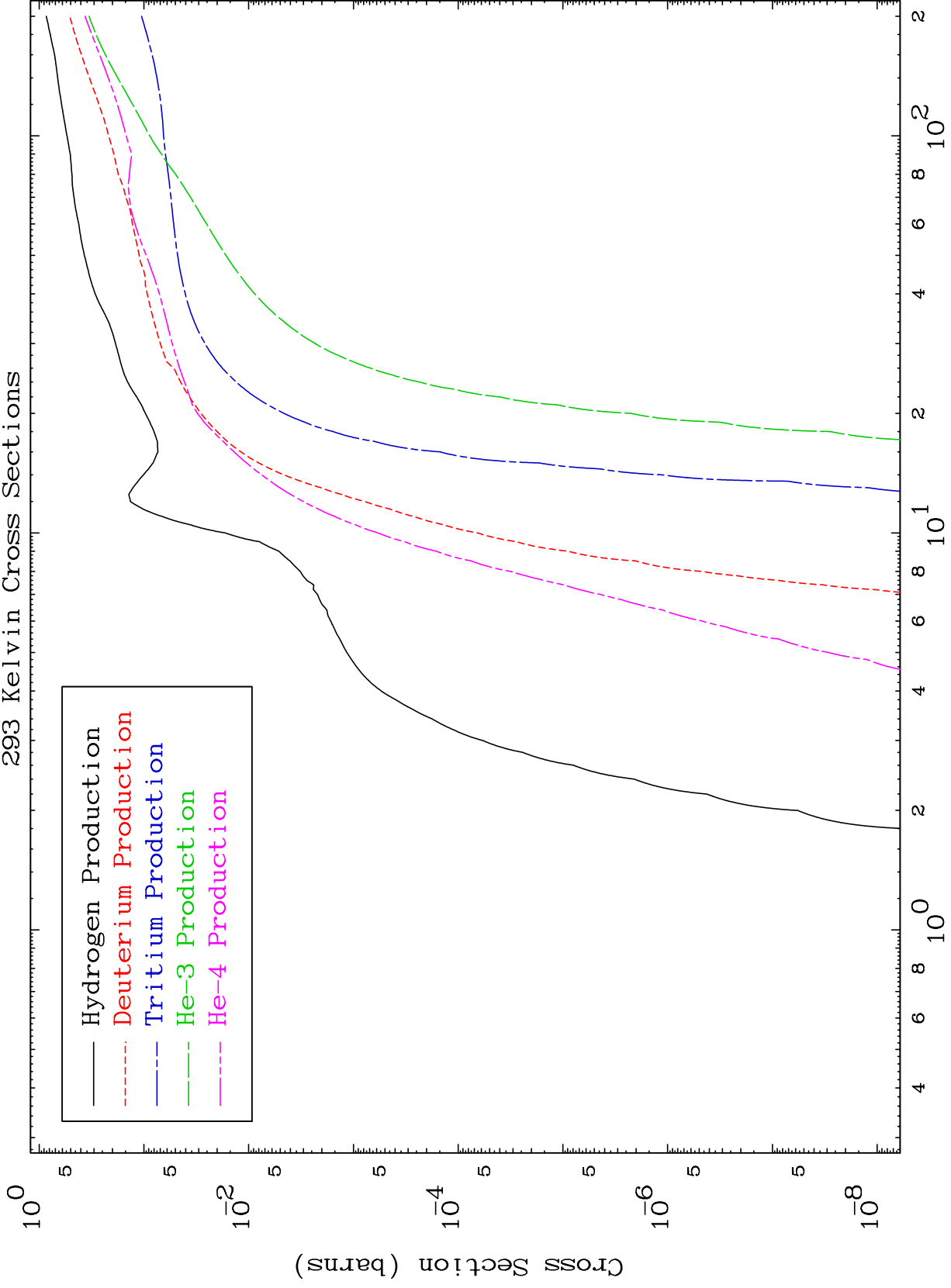
39-Y -89



MAT 3925

Particle Production  
293 Kelvin Cross Sections

39-Y -89



5

Incident Energy (MeV)

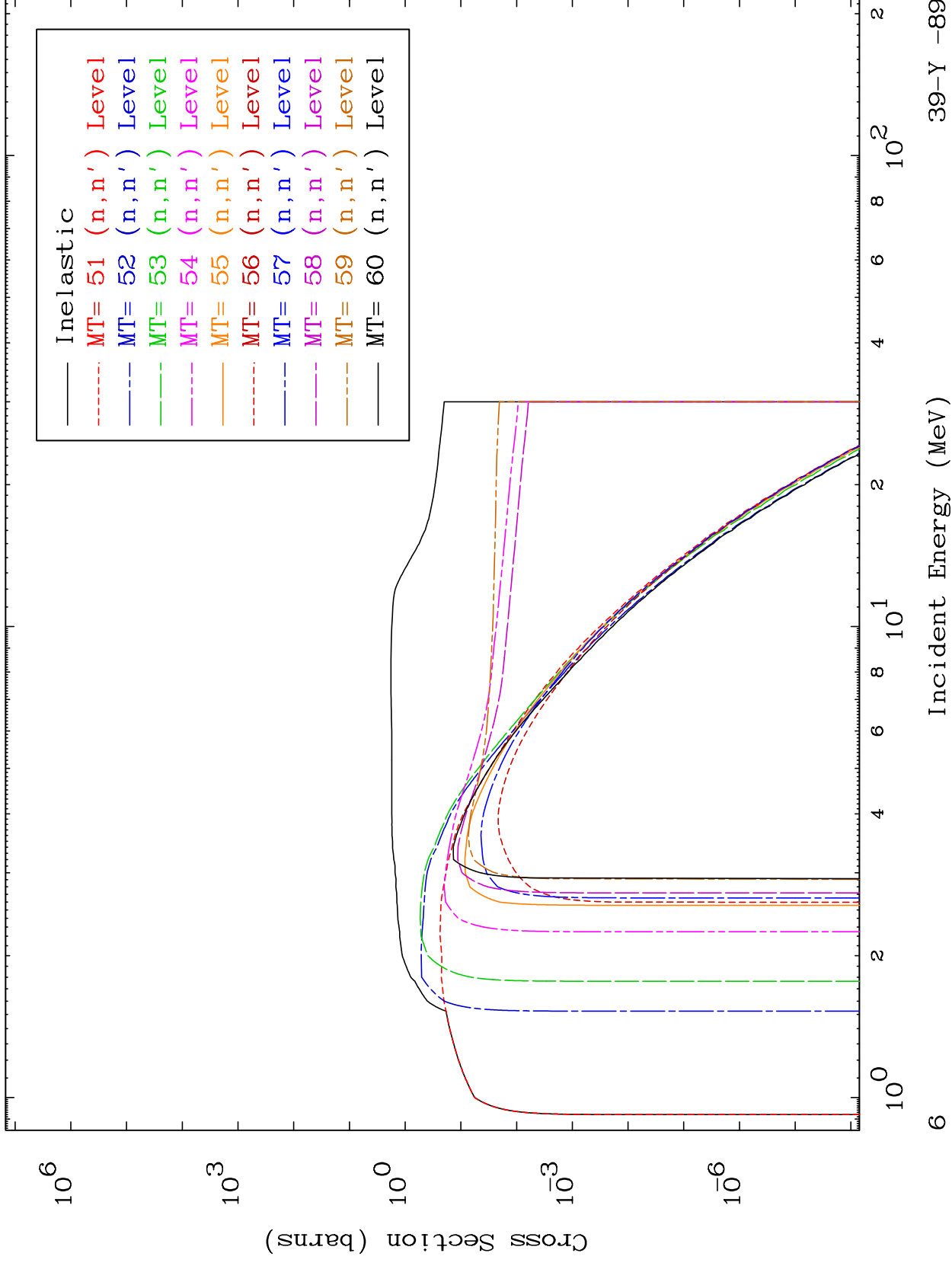
39-Y -89

MAT 3925

(n,n') Level

39-Y -89

293 Kelvin Cross Sections



Incident Energy (MeV)

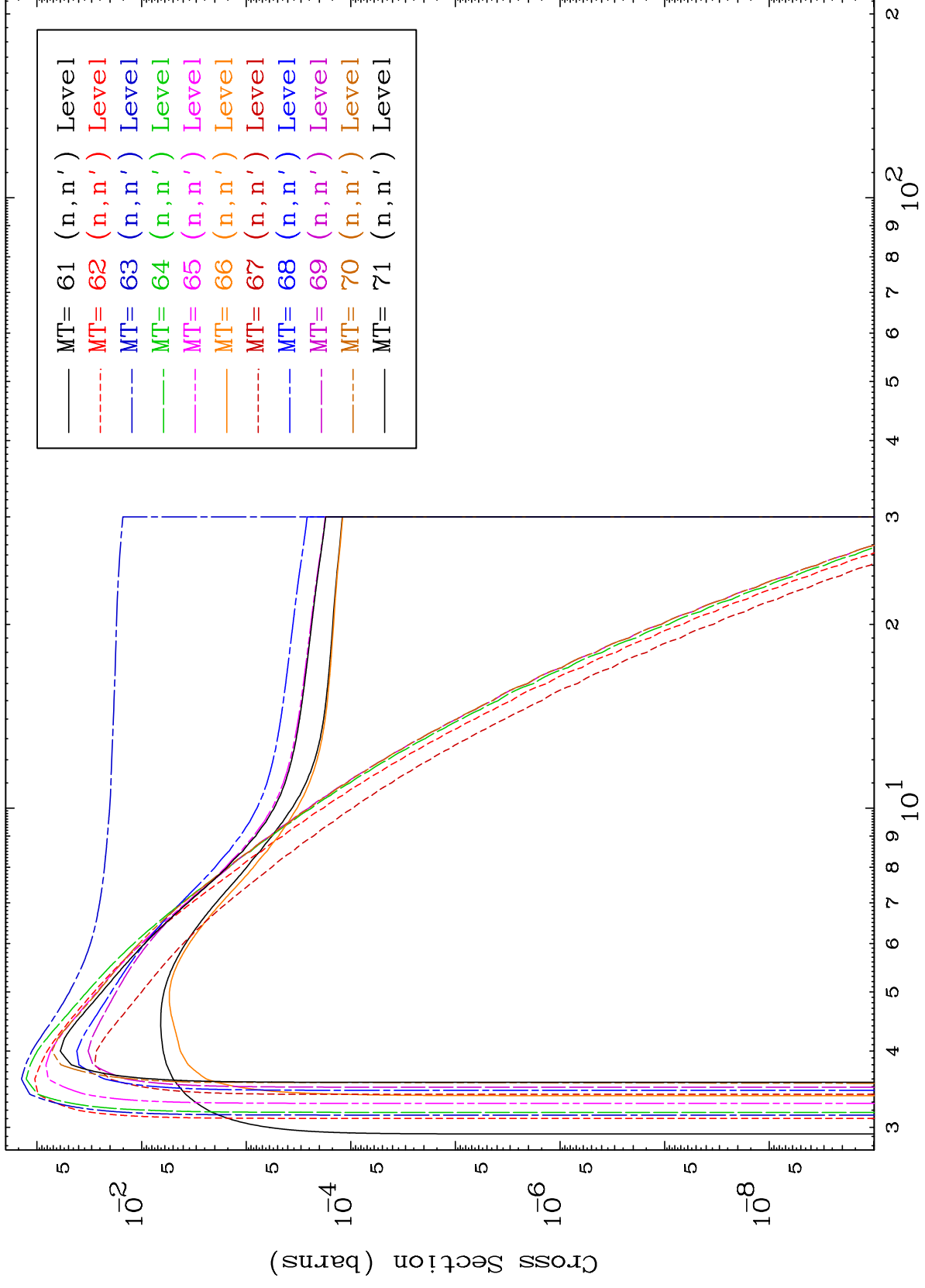
39-Y -89

MAT 3925

(n,n') Level

39-Y -89

293 Kelvin Cross Sections



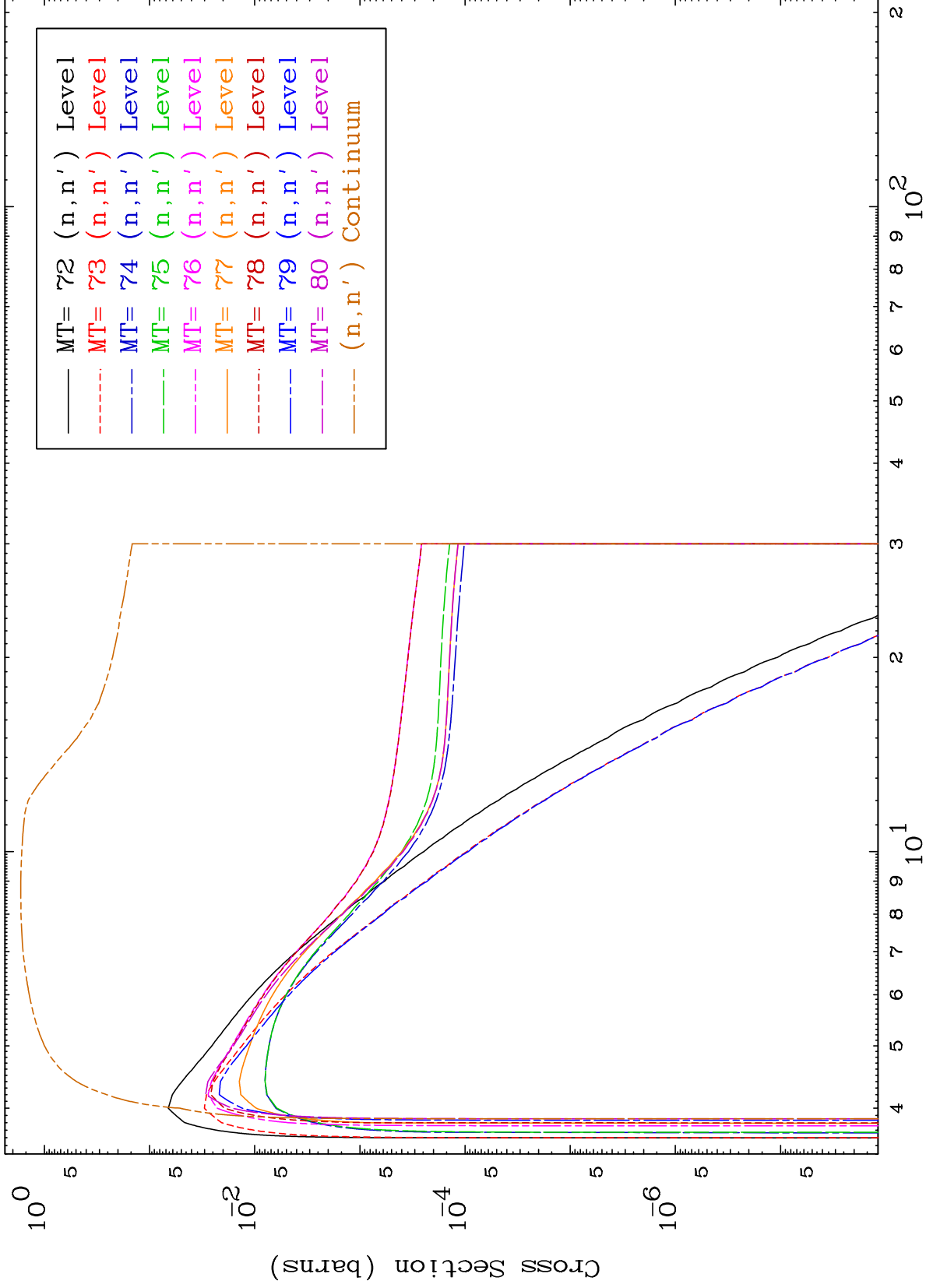
7

Incident Energy (MeV)

39-Y -89



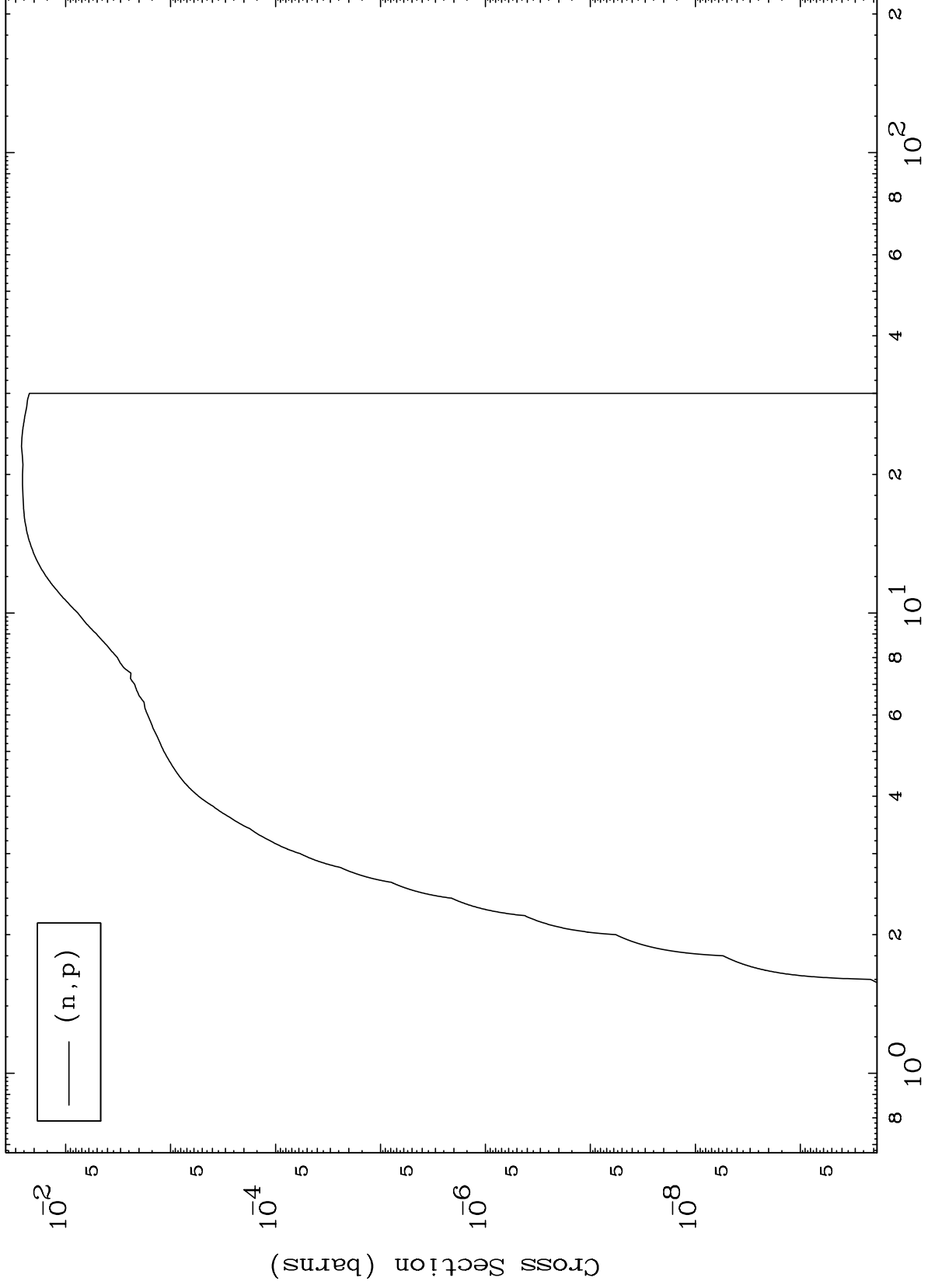
293 Kelvin Cross Sections



MAT 3925

(n,p) Levels  
293 Kelvin Cross Sections

39-Y -89



9

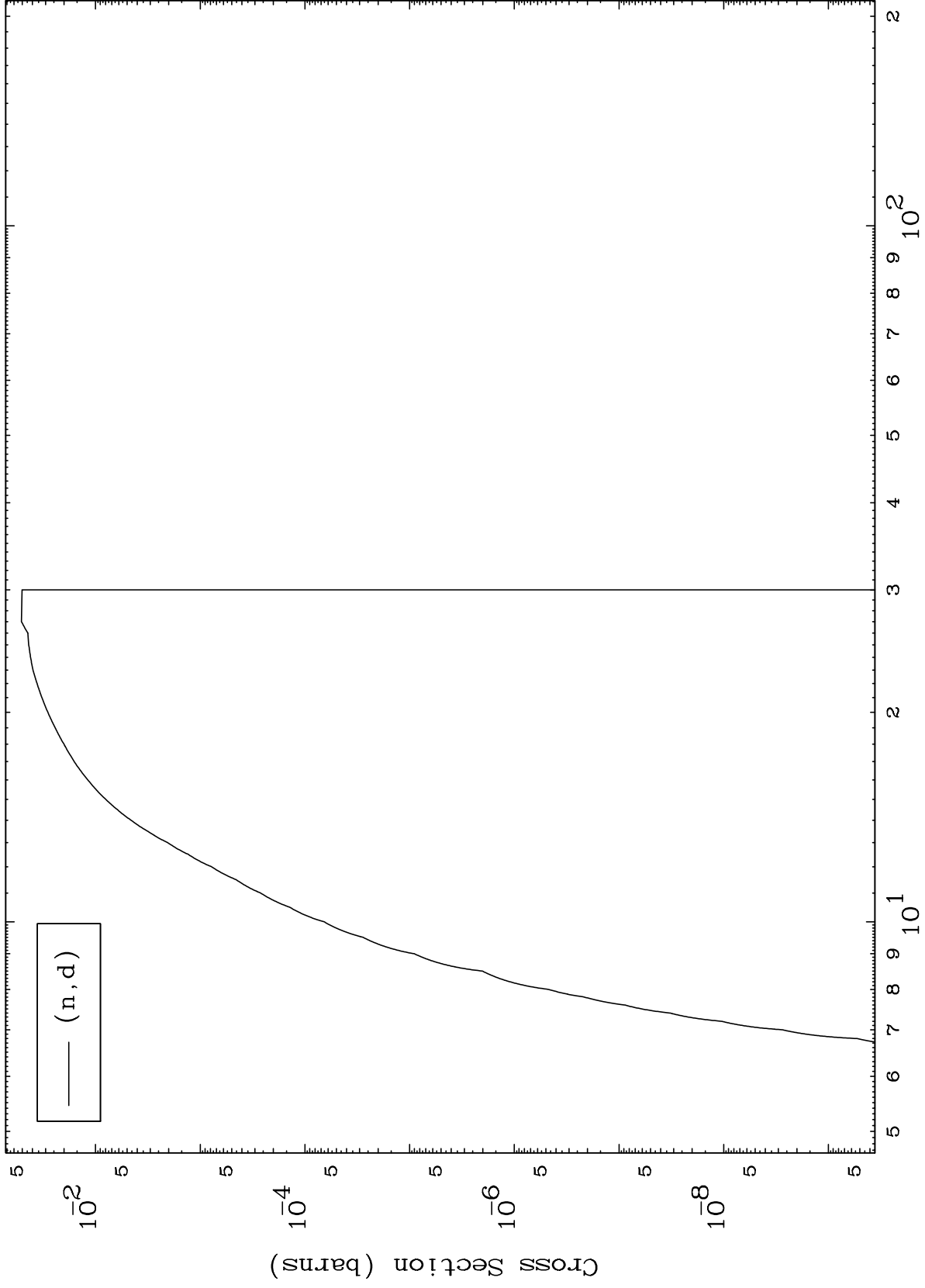
Incident Energy (MeV)

39-Y -89

MAT 3925

(n,d) Levels  
293 Kelvin Cross Sections

39-Y -89



10

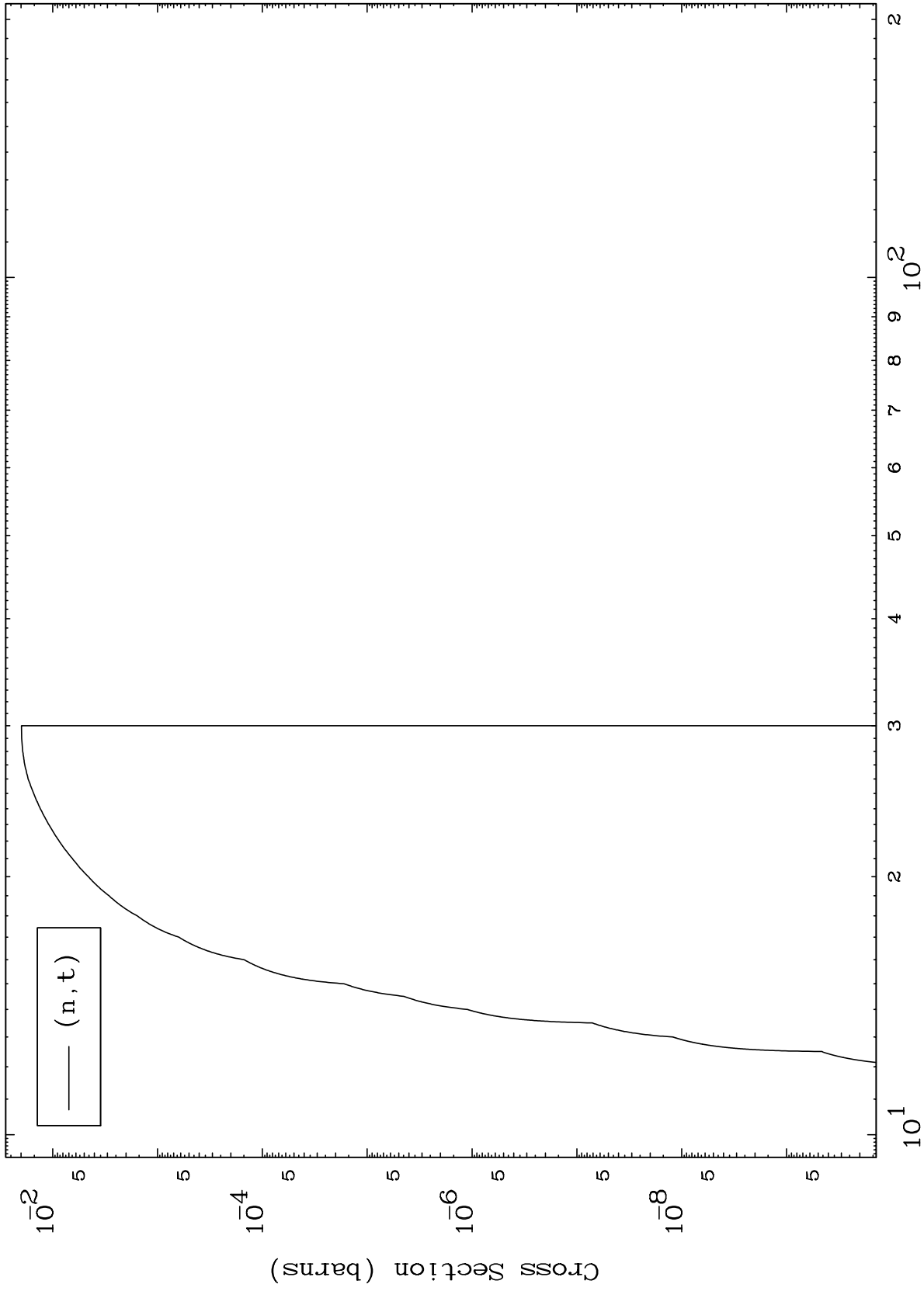
Incident Energy (MeV)

39-Y -89

MAT 3925

(n,t) Levels  
293 Kelvin Cross Sections

39-Y -89



11

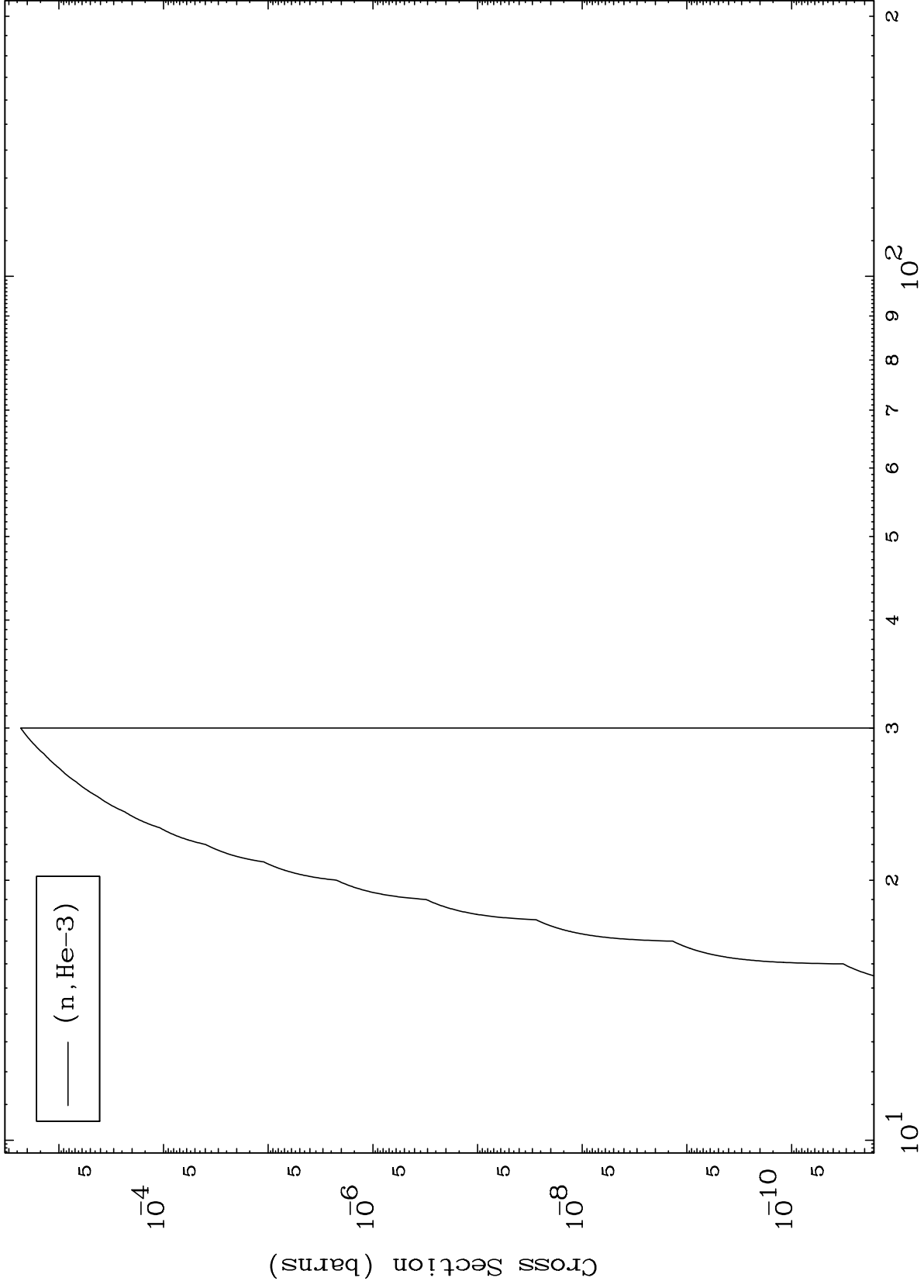
Incident Energy (MeV)

39-Y -89

MAT 3925

(n,He3) Levels  
293 Kelvin Cross Sections

39-Y -89



12

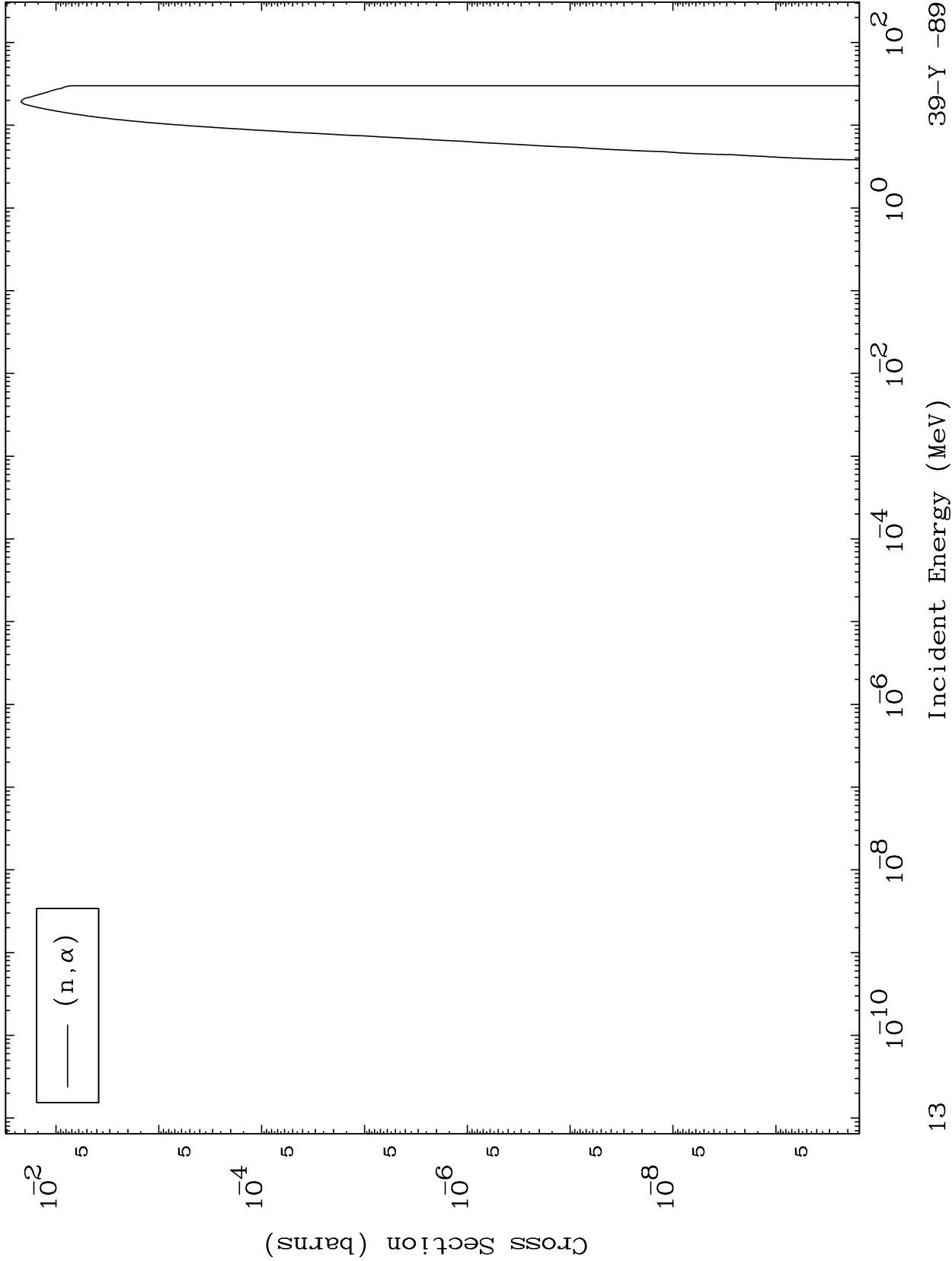
Incident Energy (MeV)

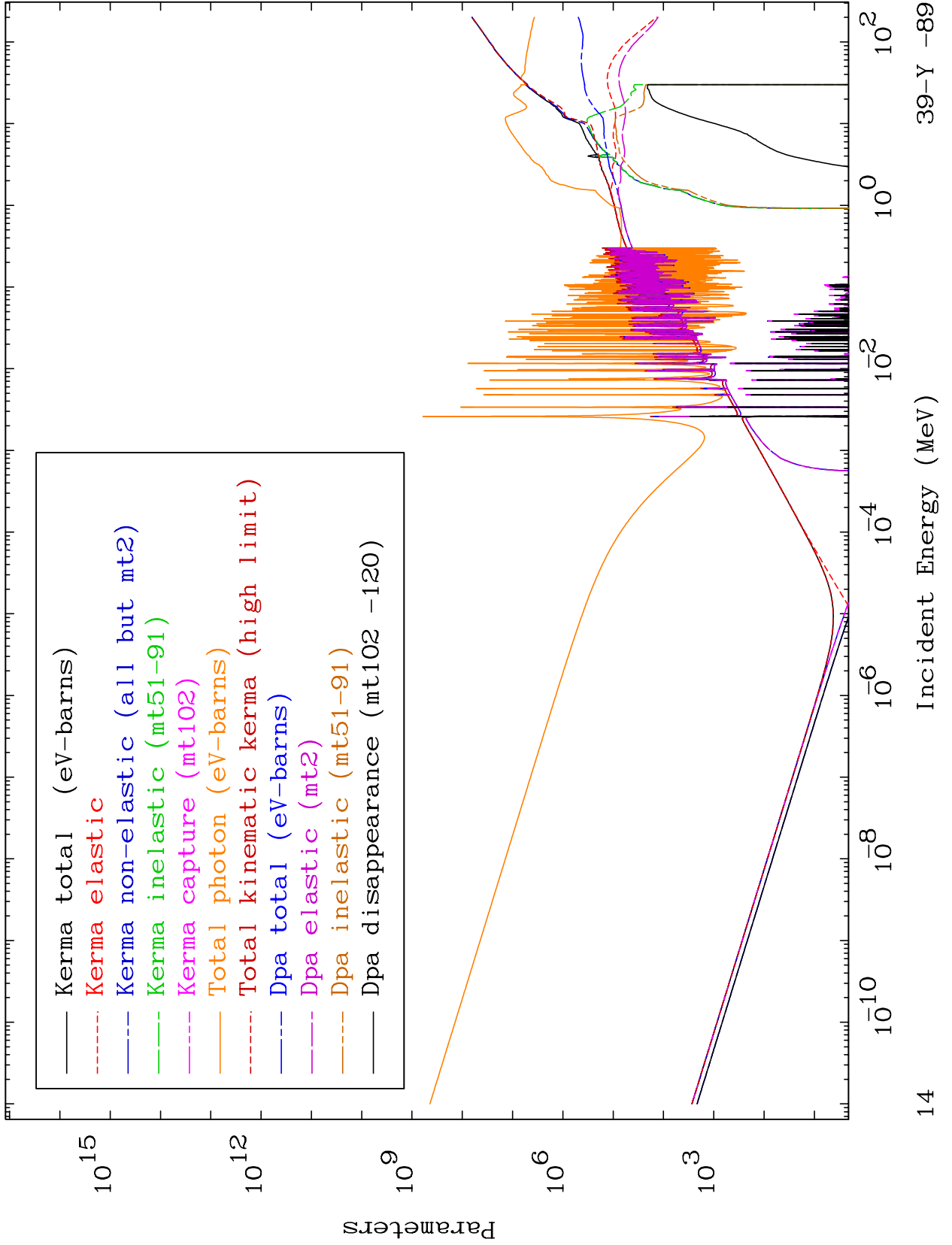
39-Y -89

MAT 3925

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

39-Y -89

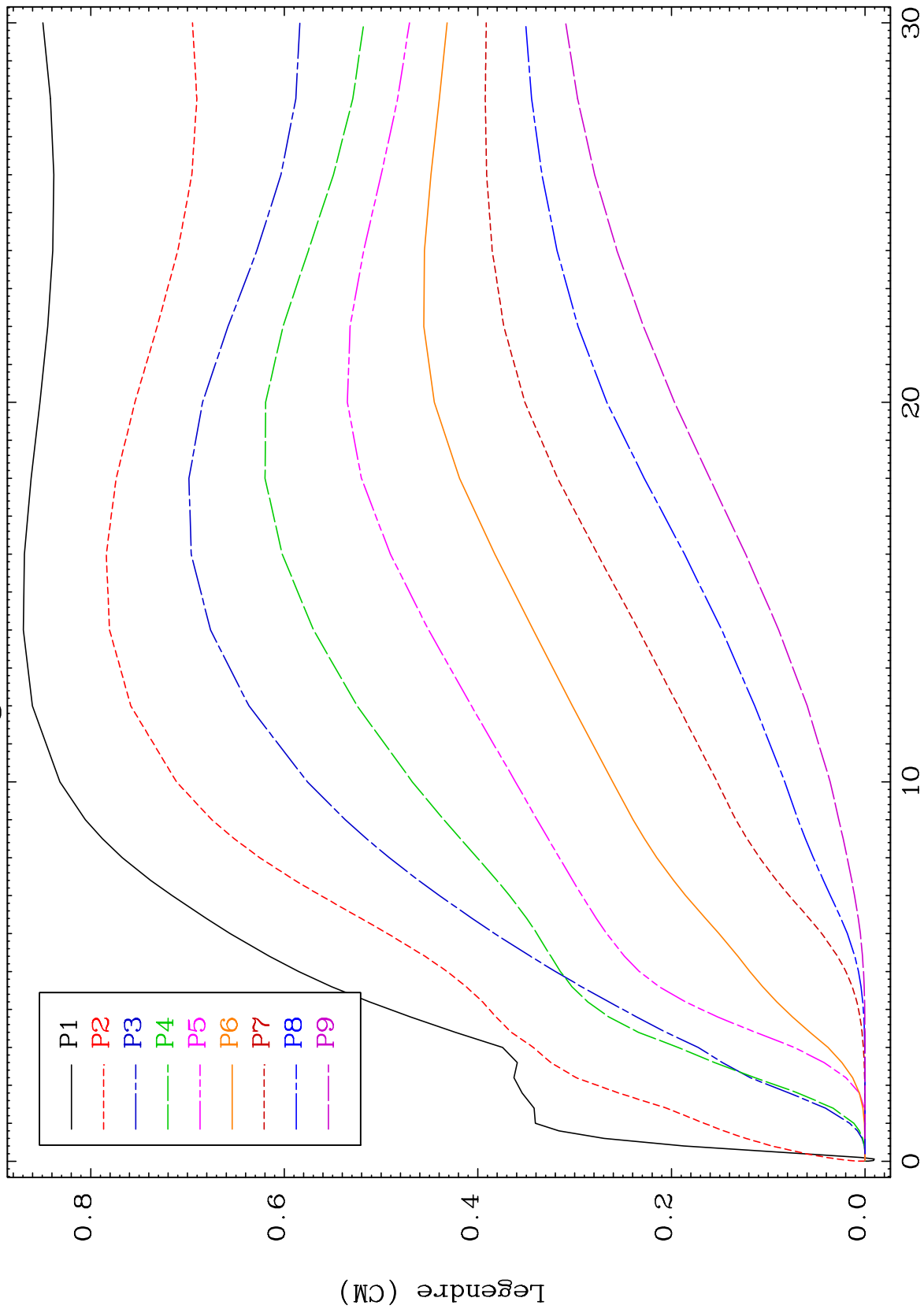




MAT 3925

Elastic Legendre Coefficients

39-Y -89



15

Incident Energy (MeV)

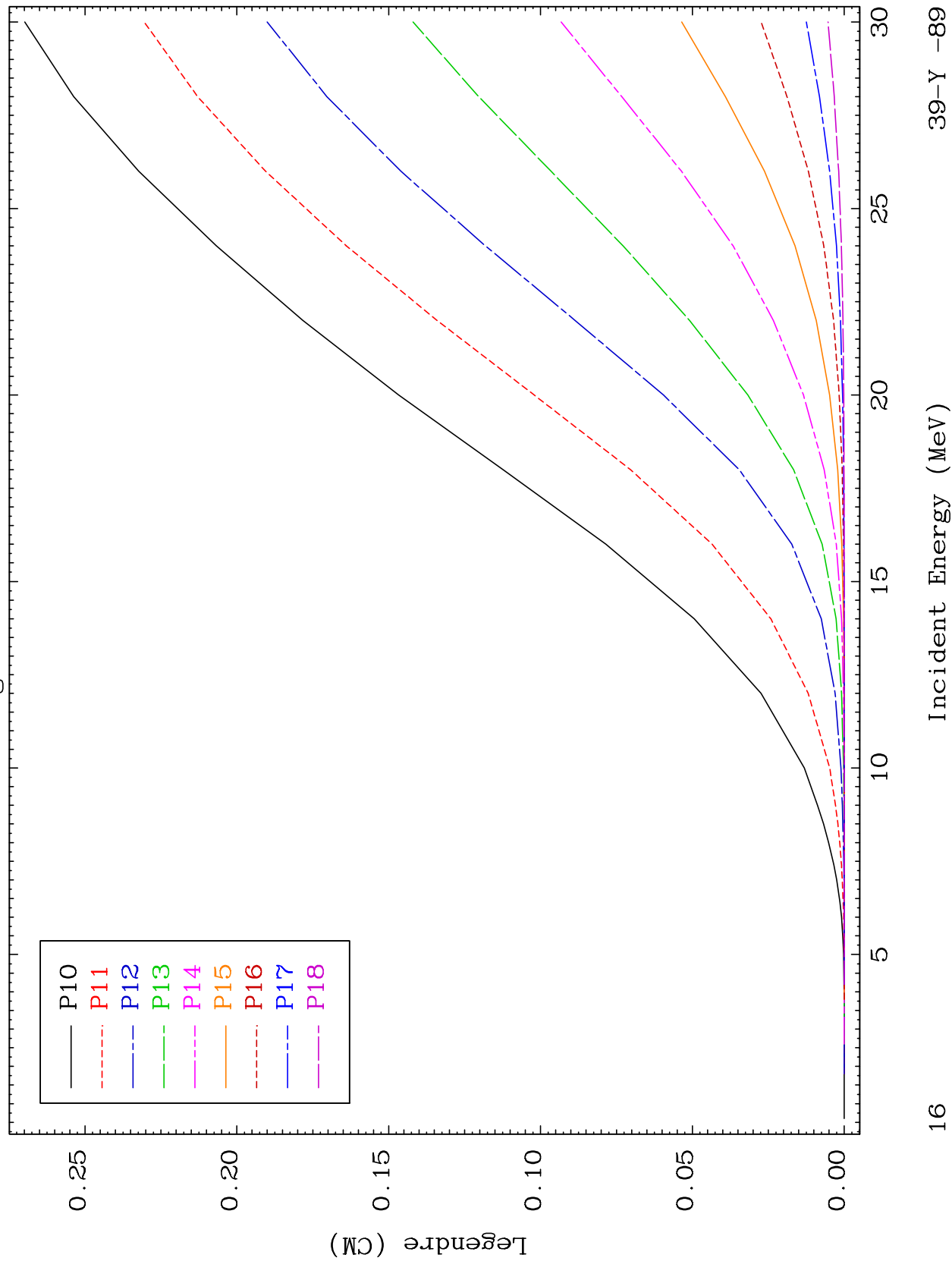
39-Y -89



MAT 3925

### Elastic Legendre Coefficients

39-Y -89



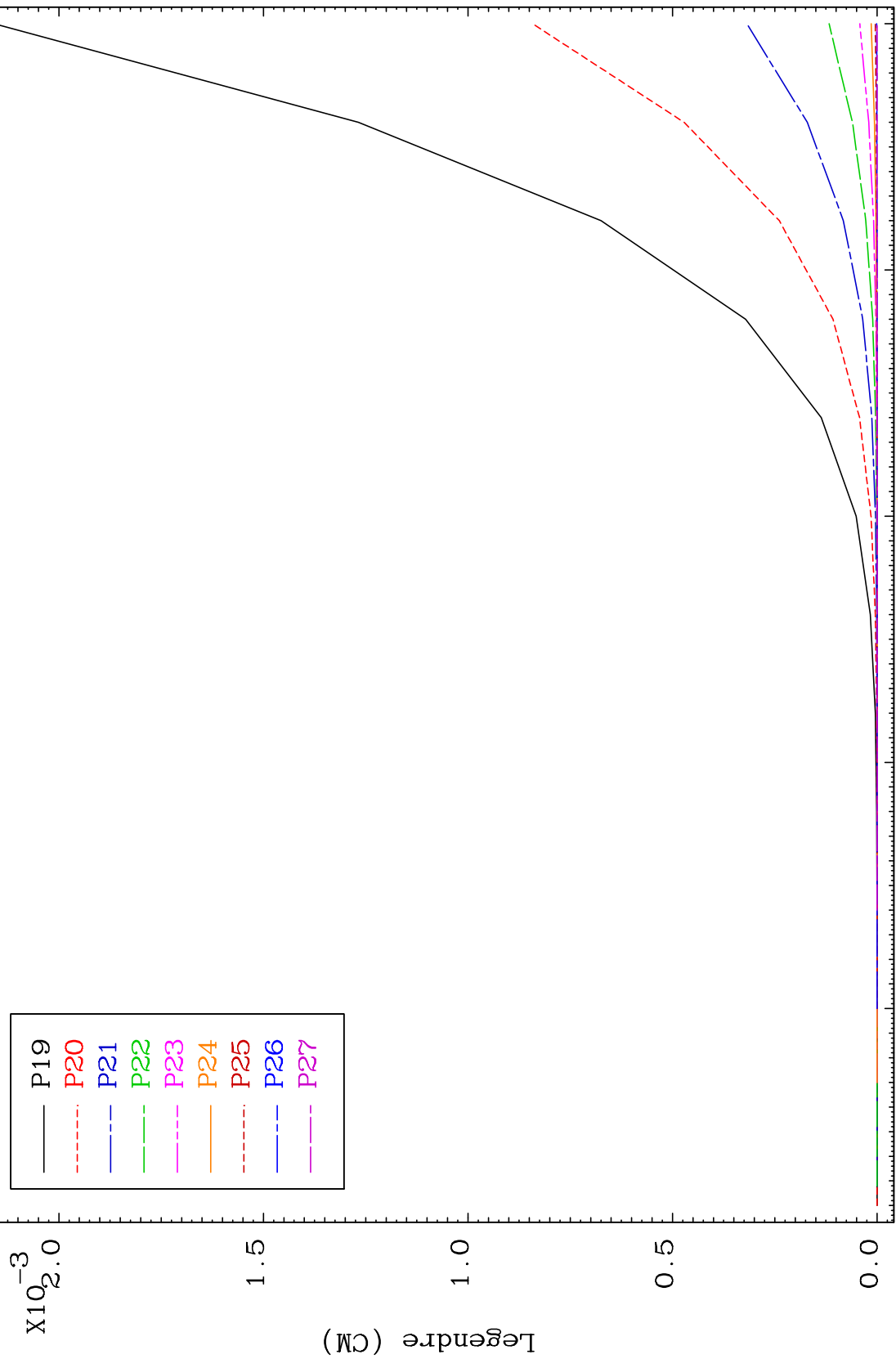
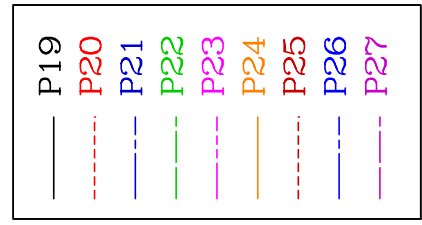
16

39-Y -89

MAT 3925

### Elastic Legendre Coefficients

39-Y -89



17

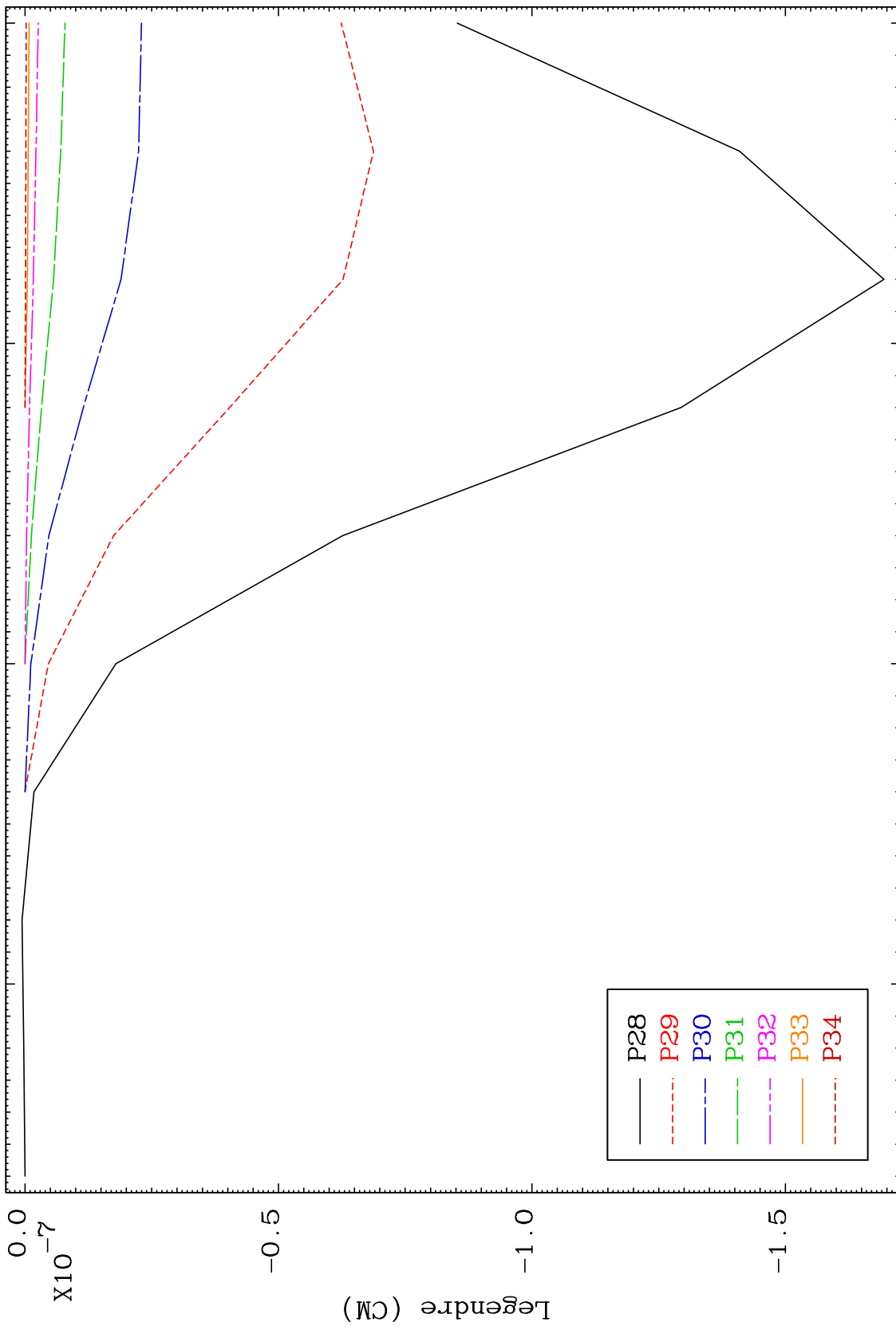
Incident Energy (MeV)

39-Y -89

MAT 3925

39-Y -89

Elastic Legendre Coefficients



$0.0$   
 $X10^{-7}$

$-0.5$

$-1.0$

$-1.5$

15

20

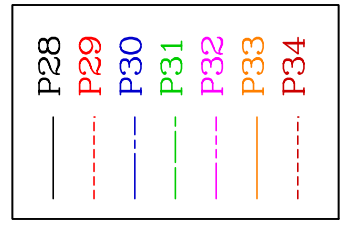
25

30

18

Incident Energy (MeV)

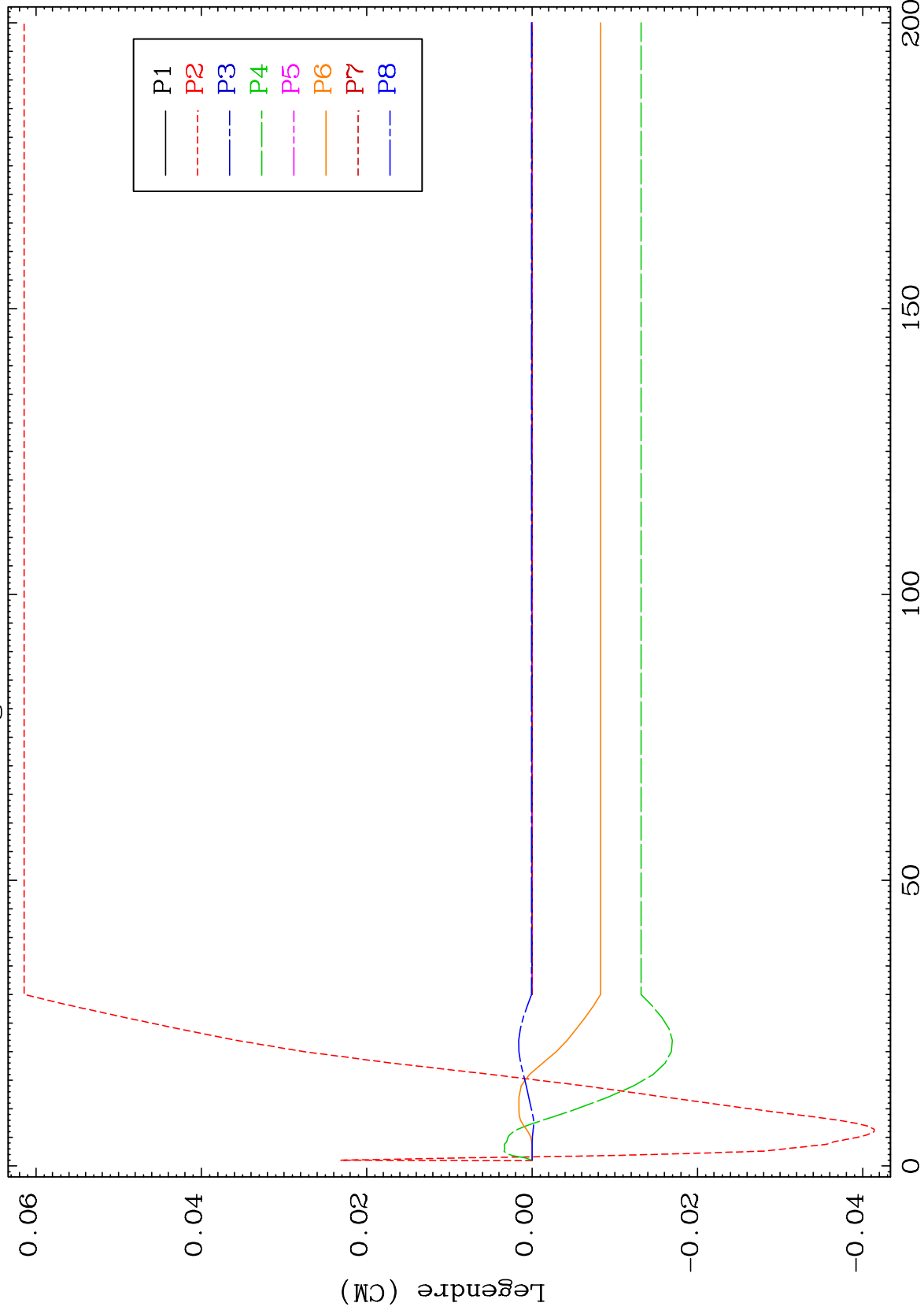
39-Y -89



MAT 3925

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

39-Y -89



19

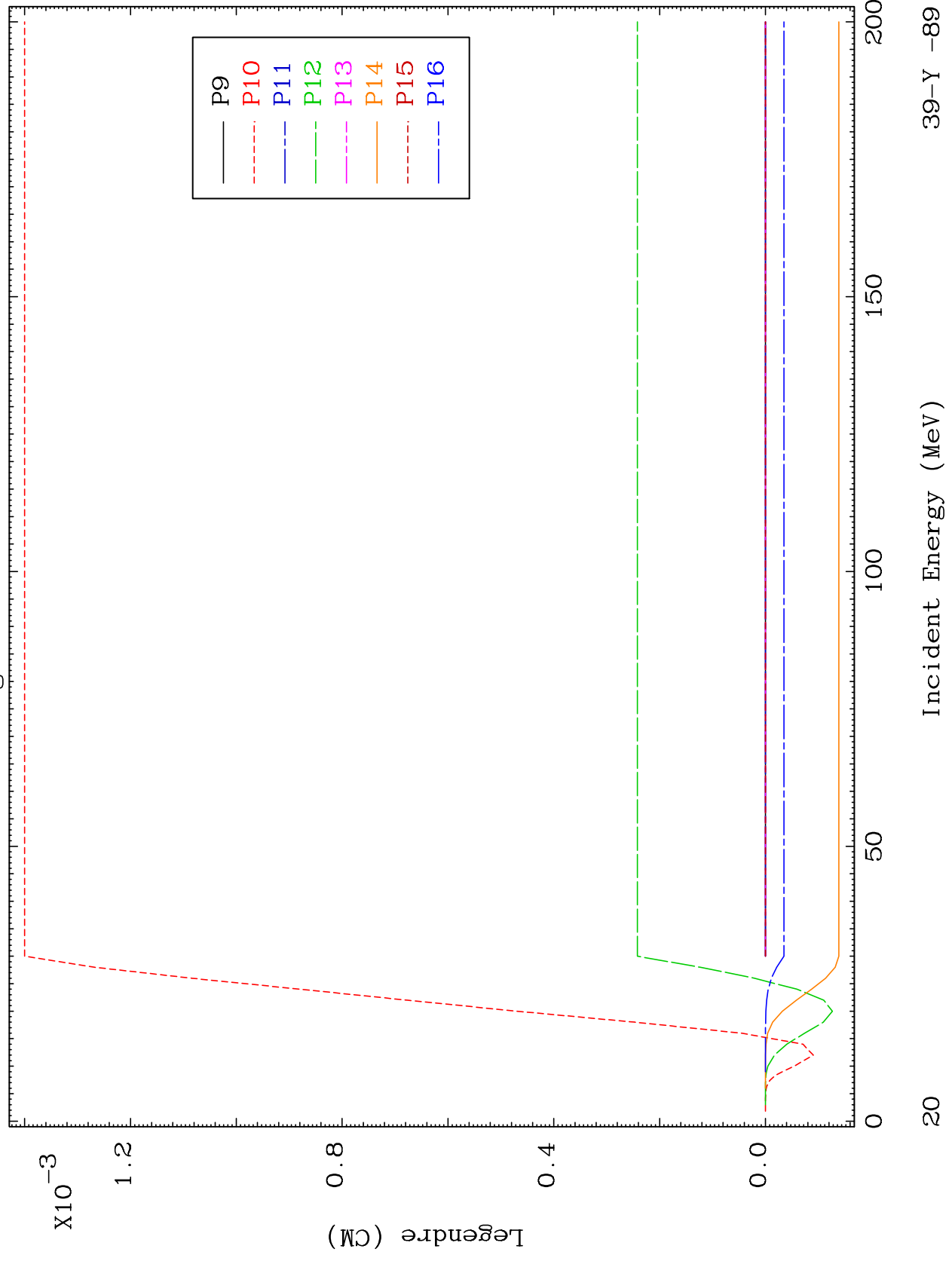
Incident Energy (MeV)

39-Y -89

MAT 3925

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

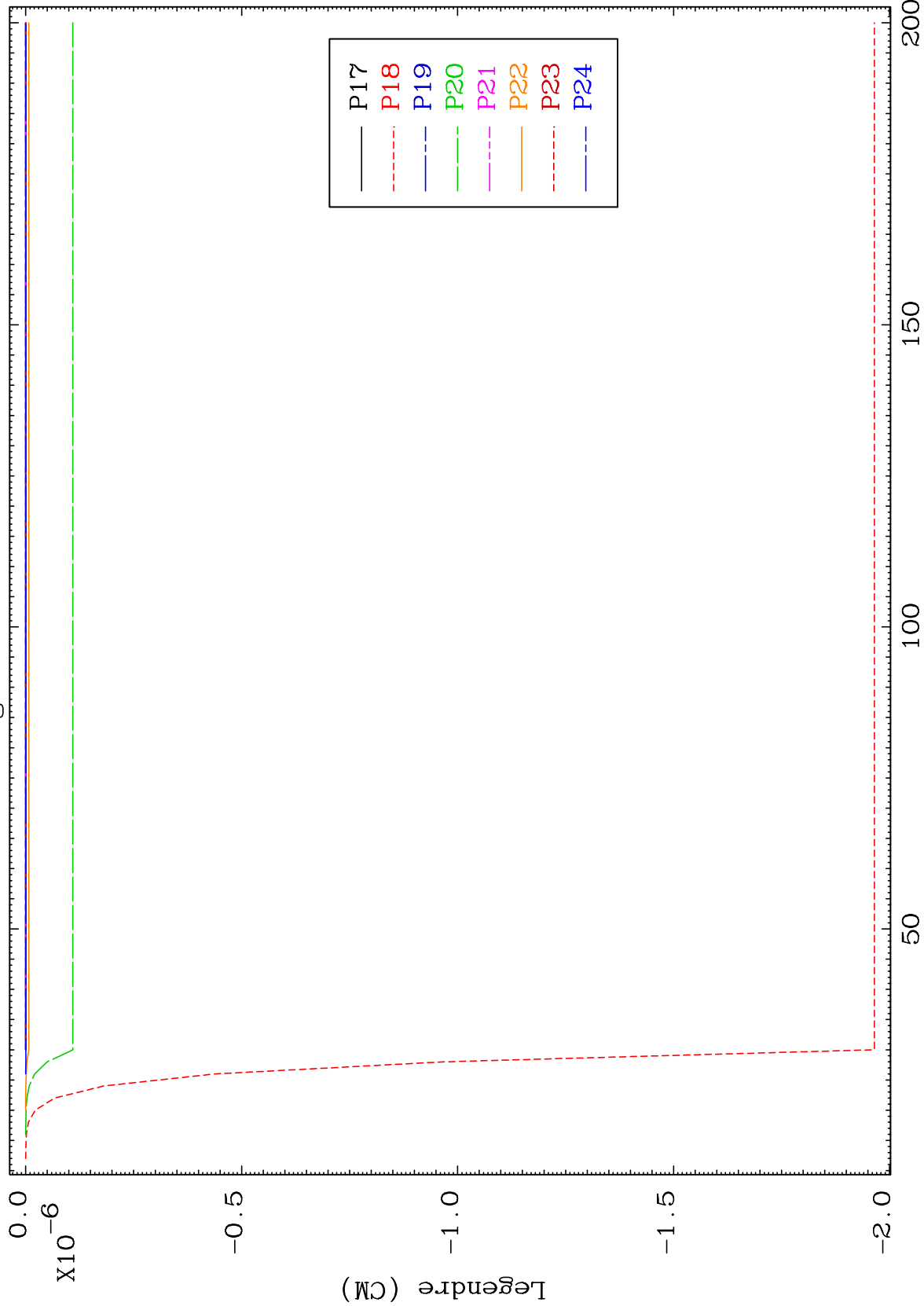
39-Y -89



39-Y -89

MAT 3925 MT= 51 (n,n') Level 39-Y -89

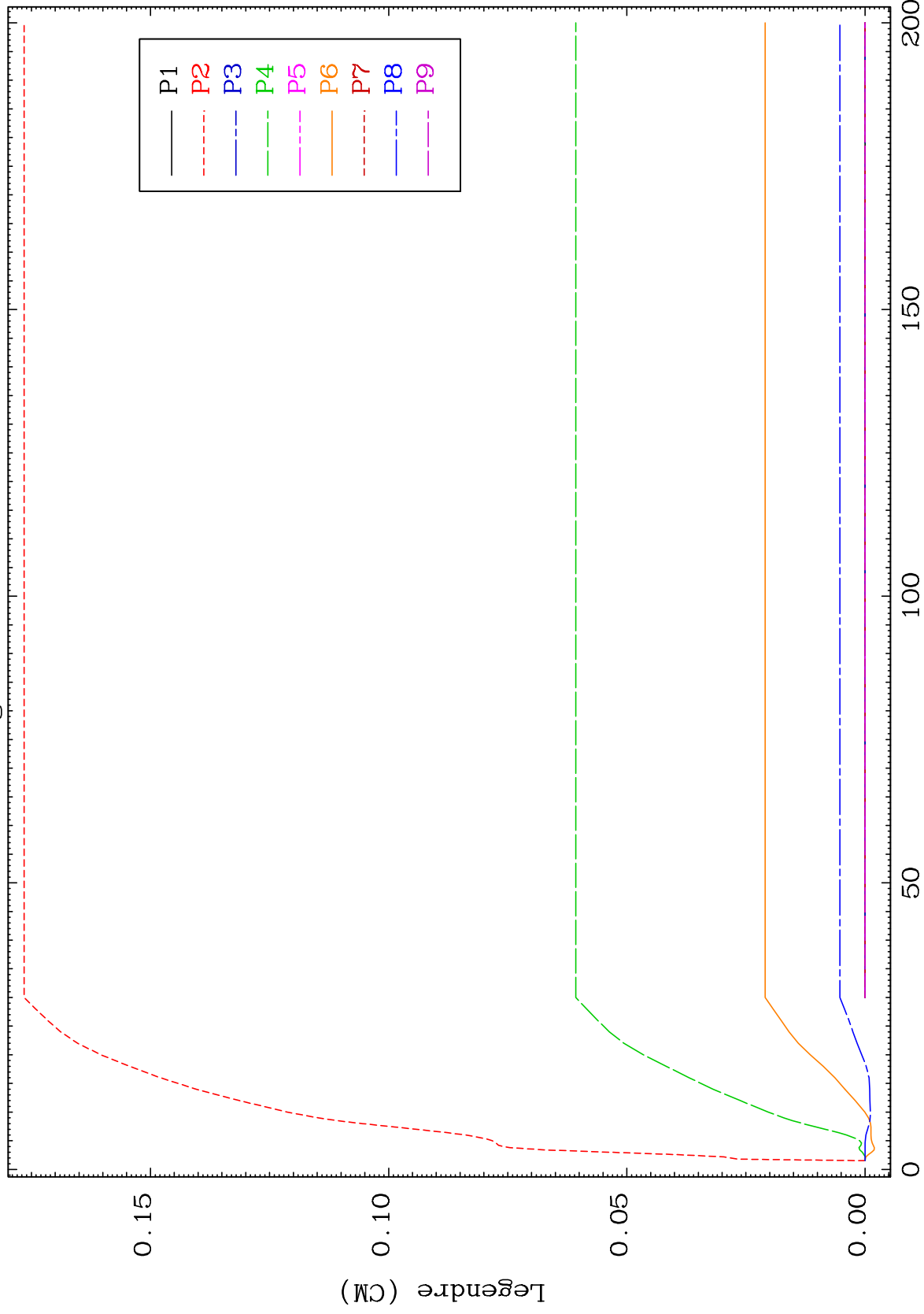
Legendre Coefficients



MAT 3925

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

39-Y -89



22

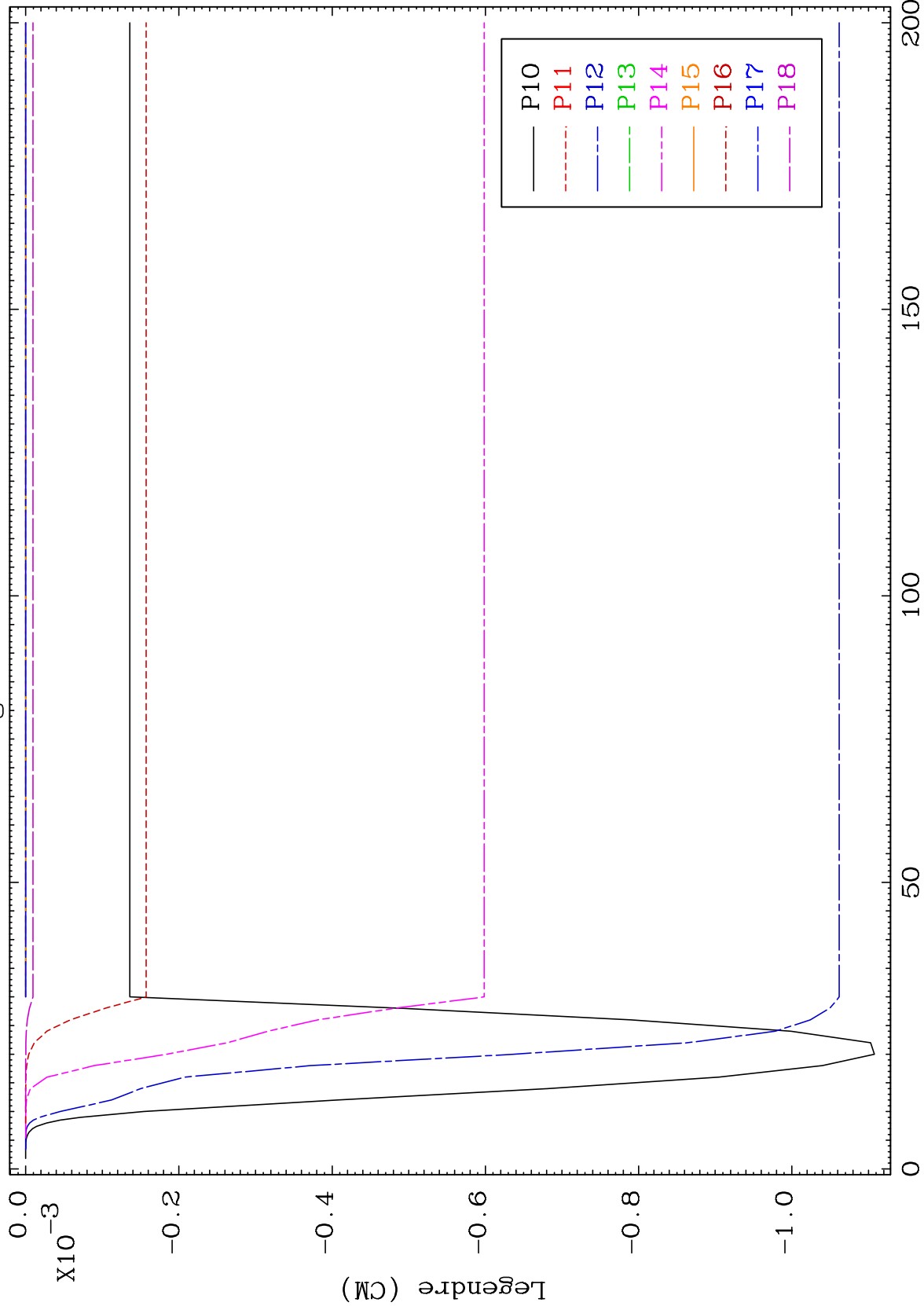
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89

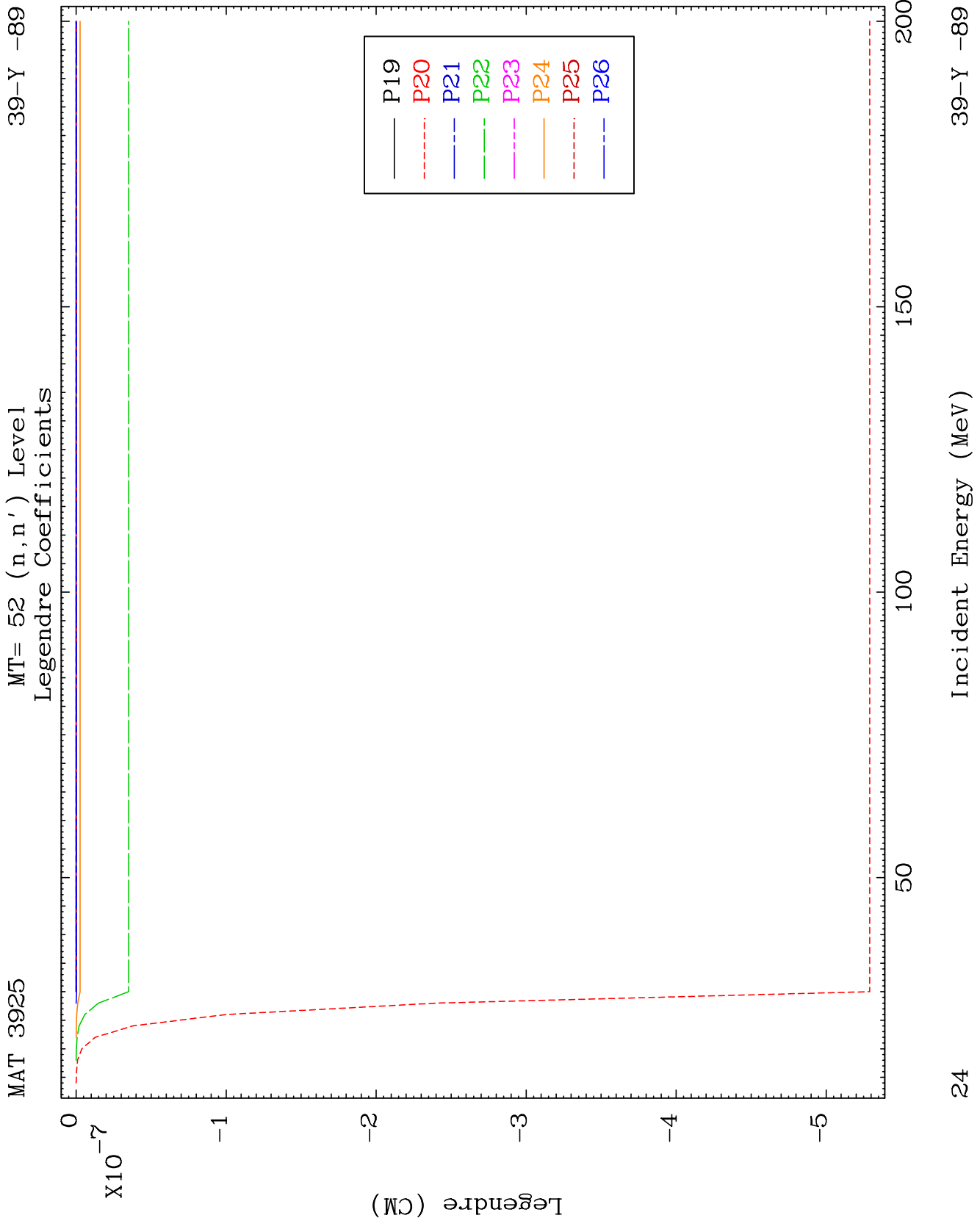


23

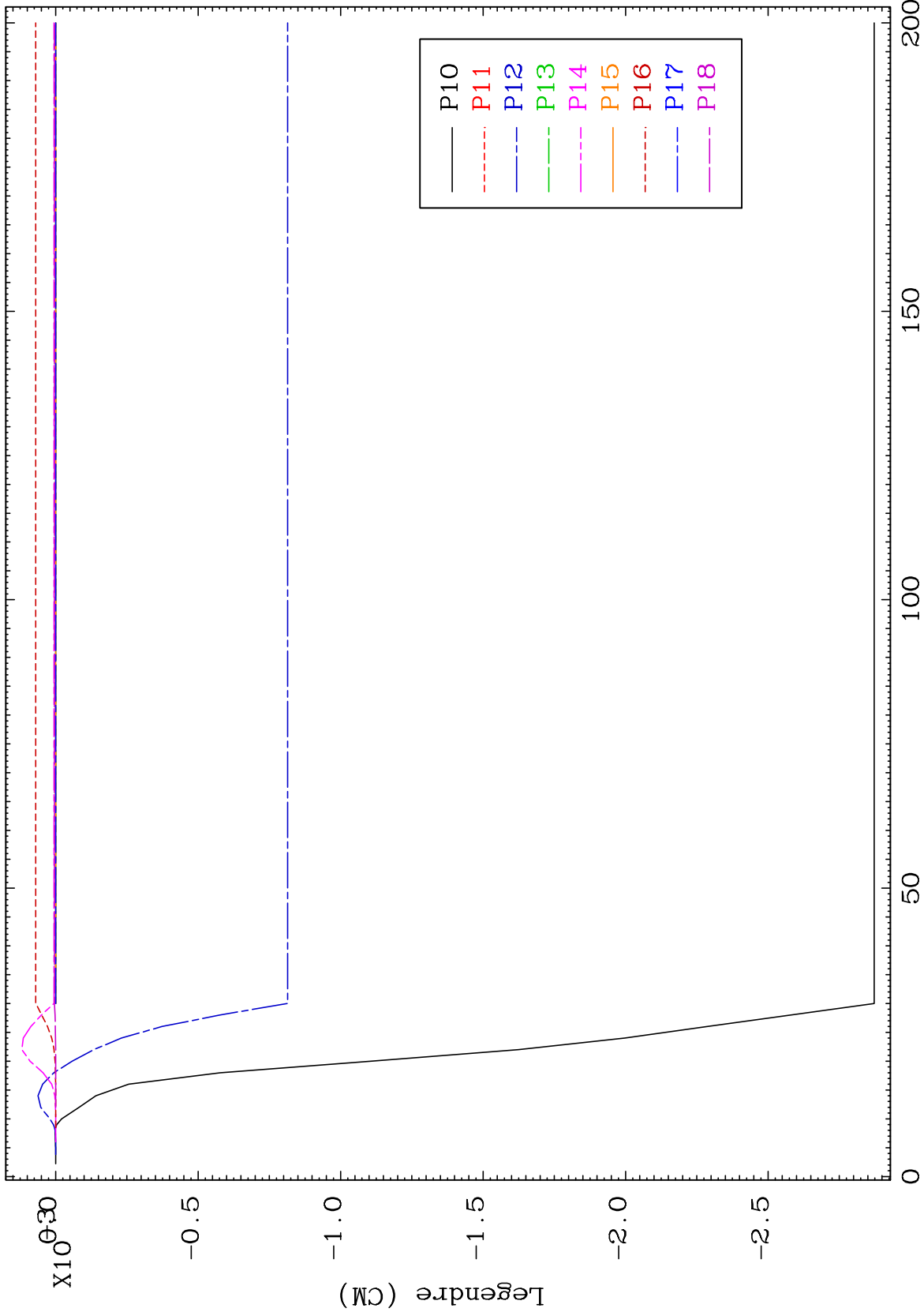
Incident Energy (MeV)

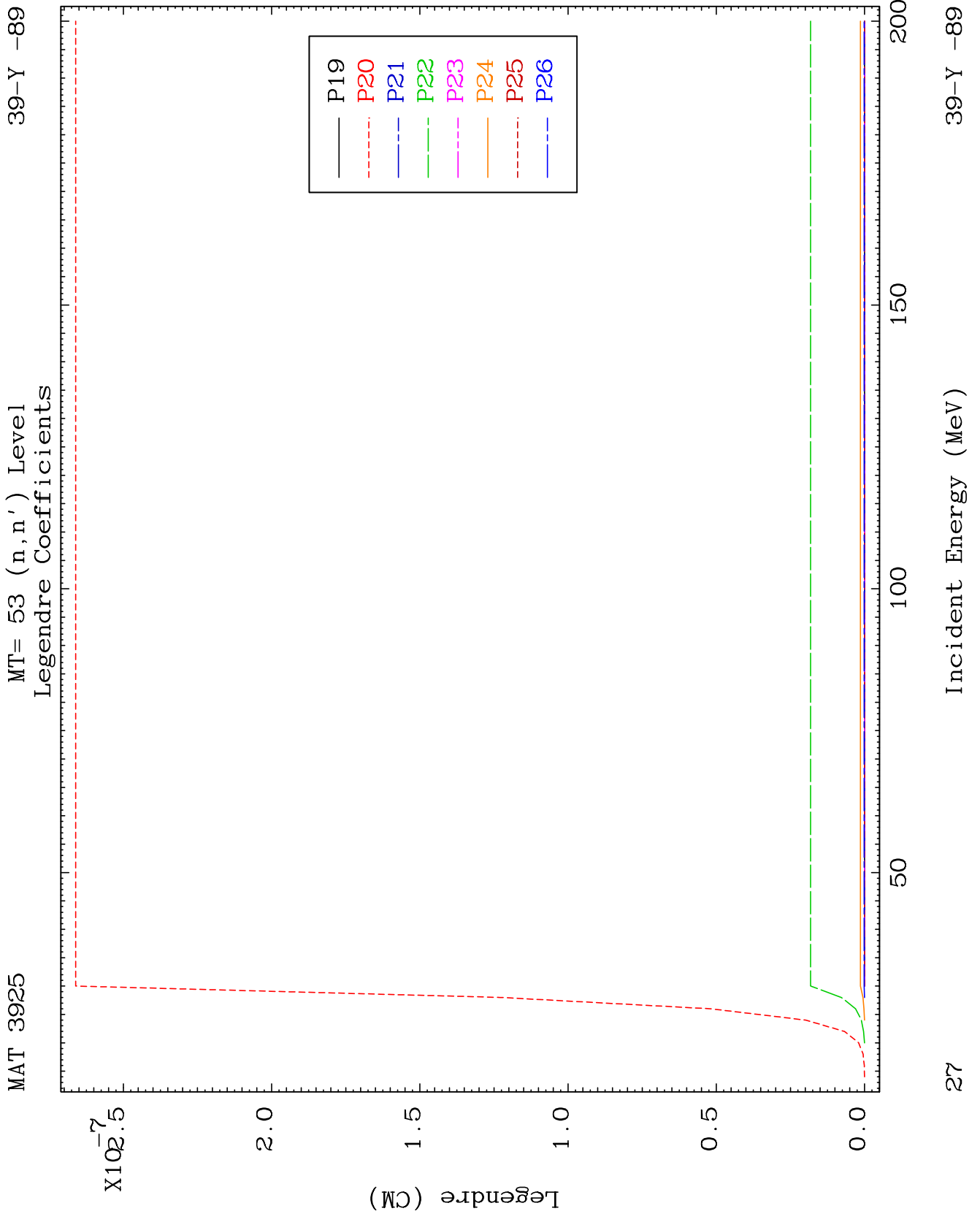
39-Y -89







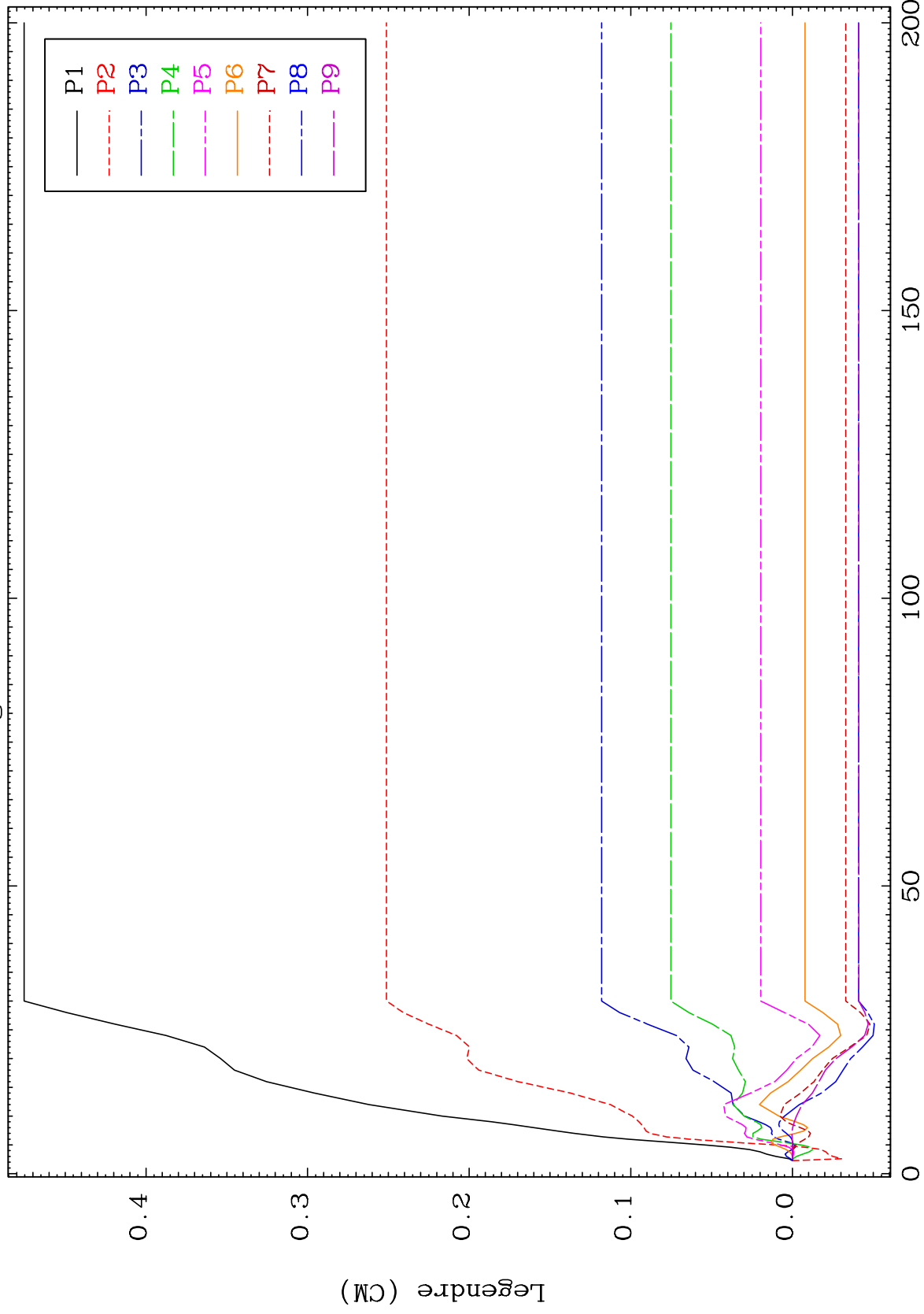




MAT 3925

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

39-Y -89



28

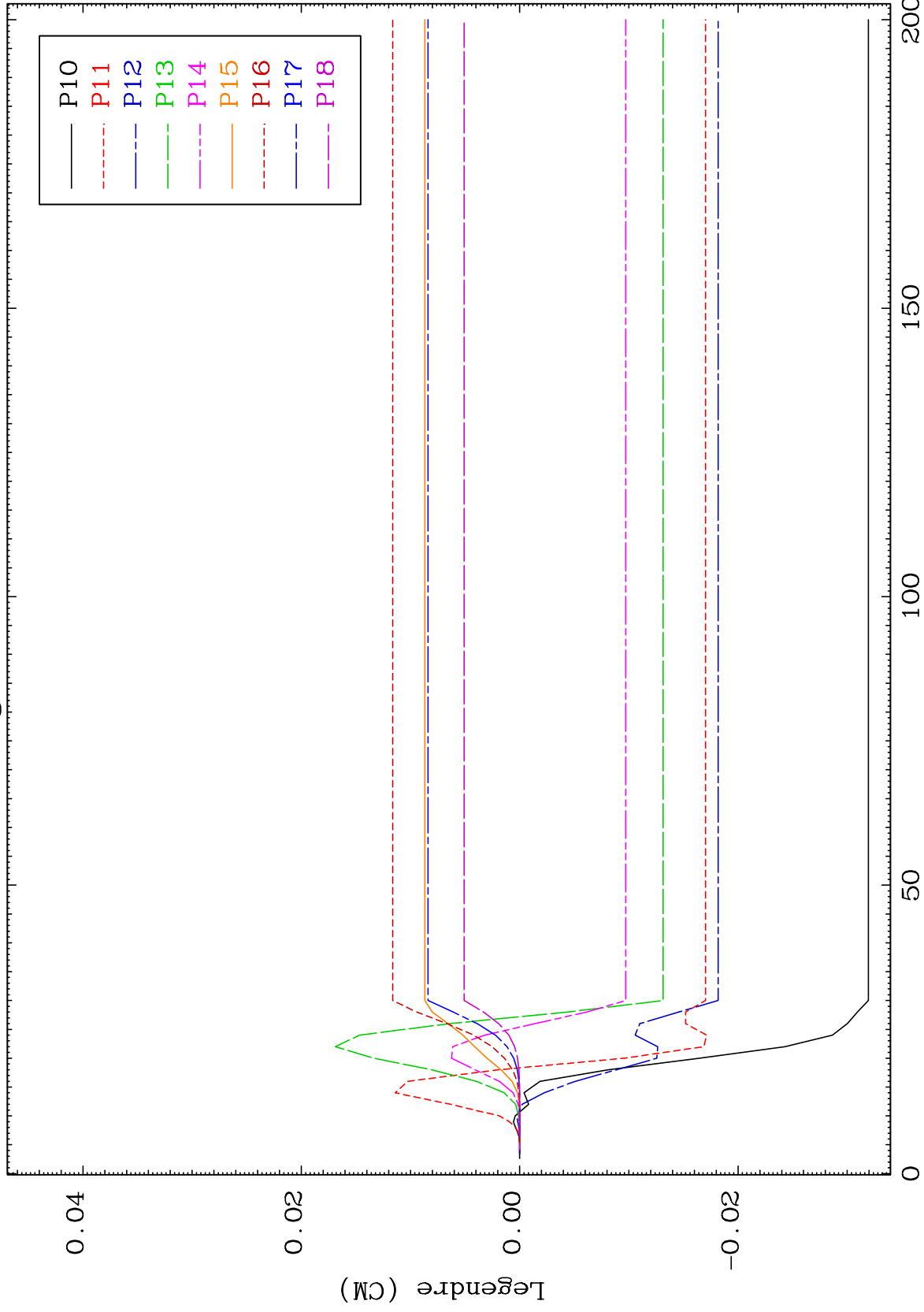
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



29

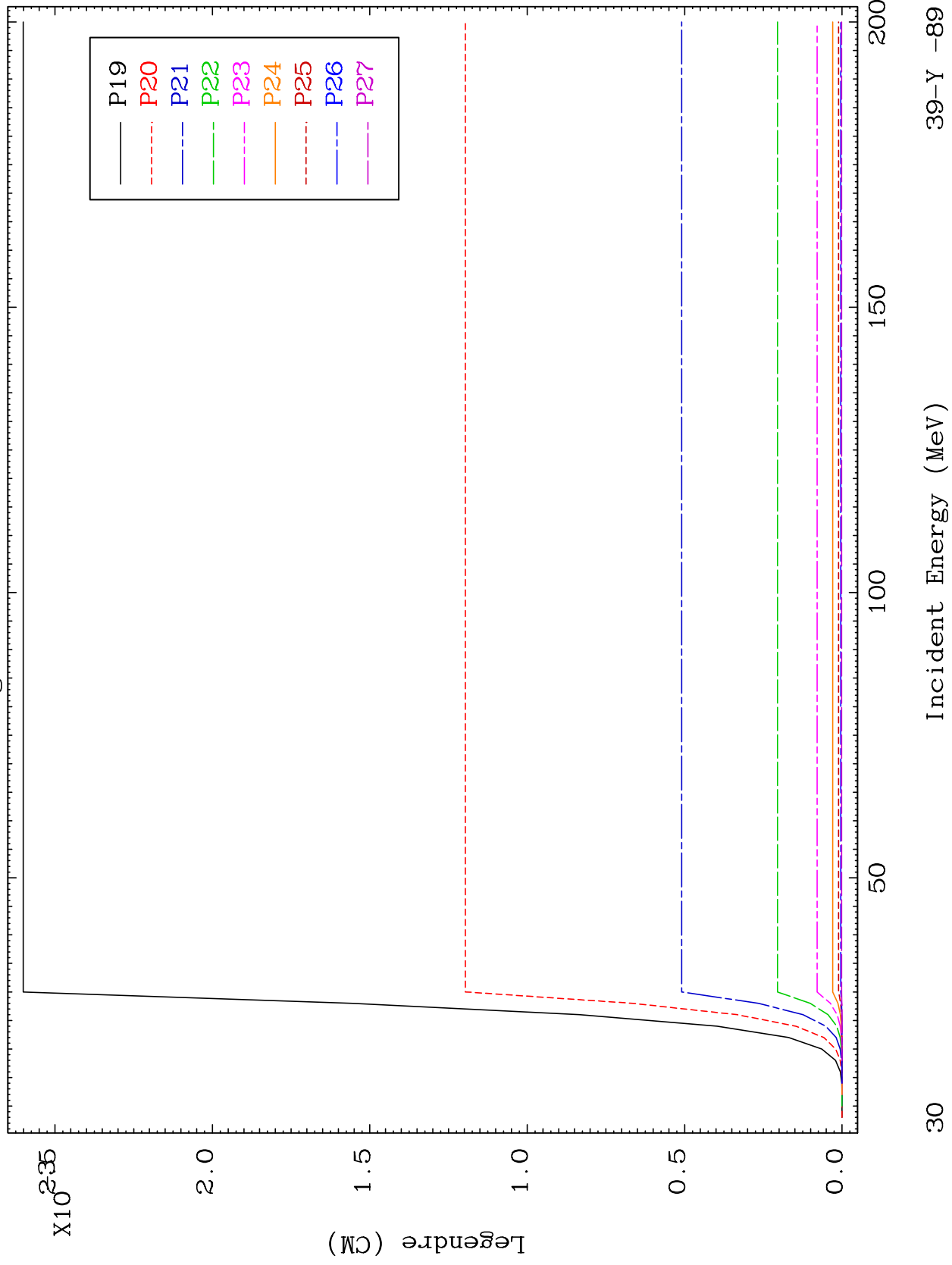
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



30

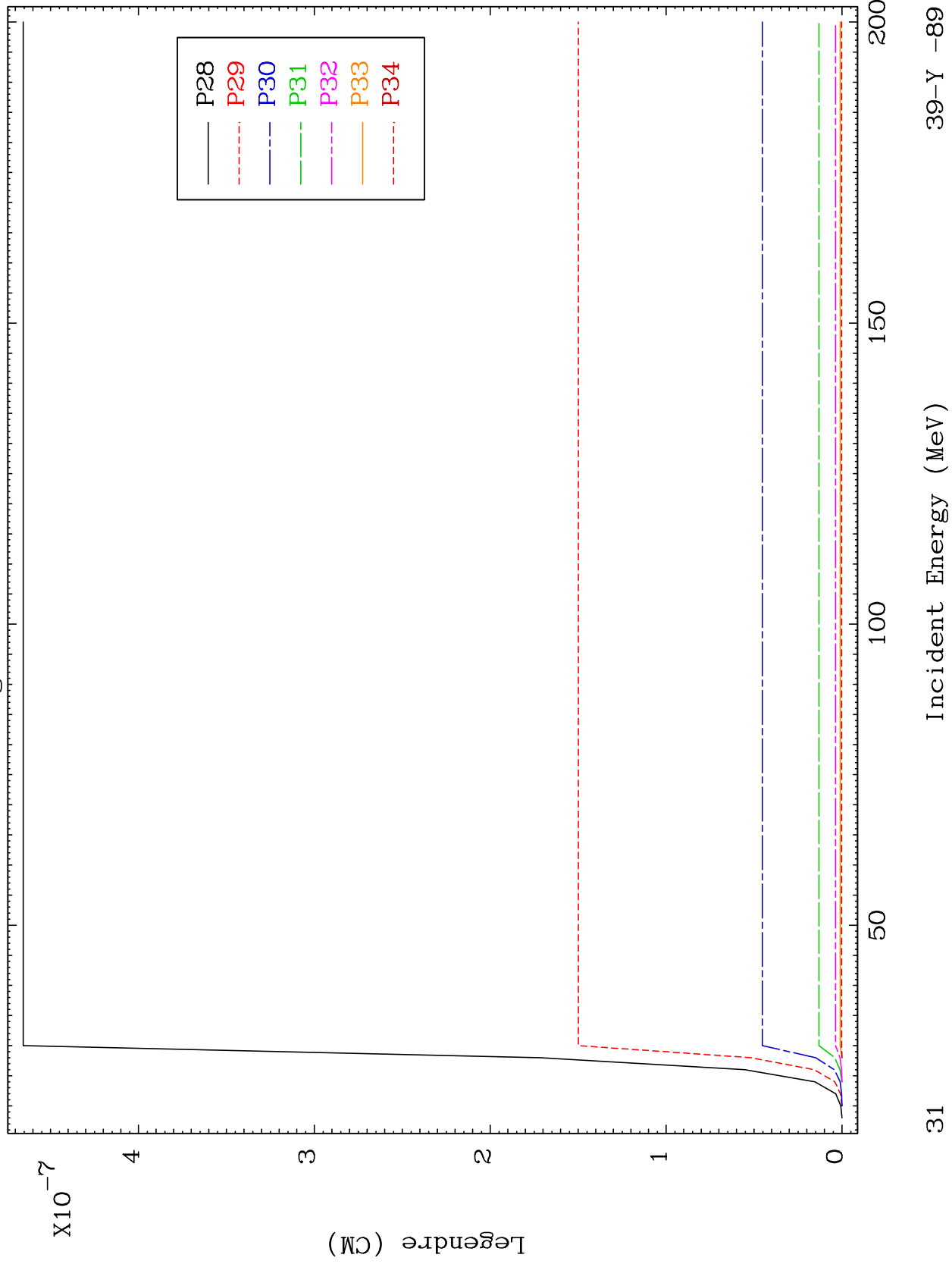
Incident Energy (MeV)

39-Y -89

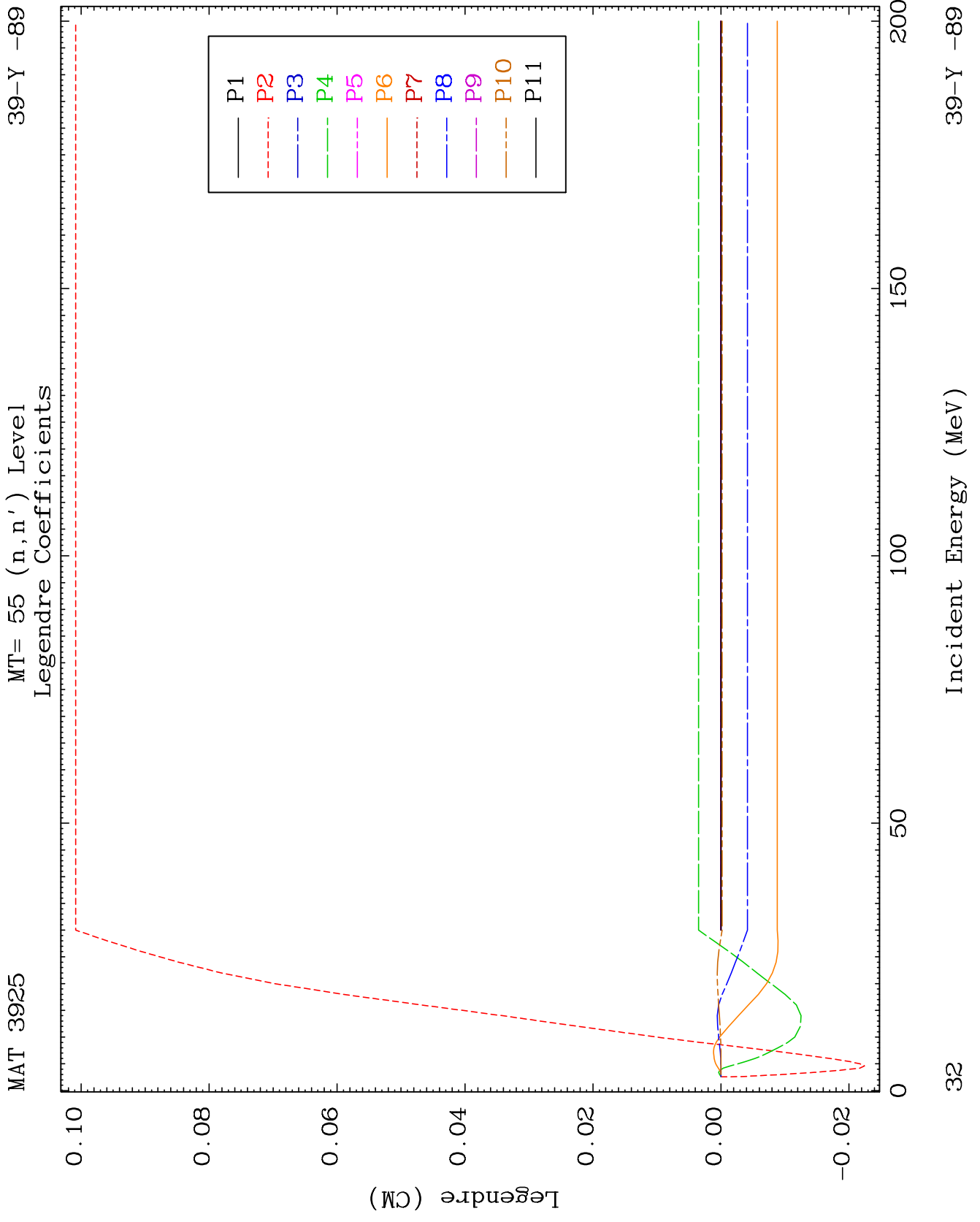
MAT 3925

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

39-Y -89



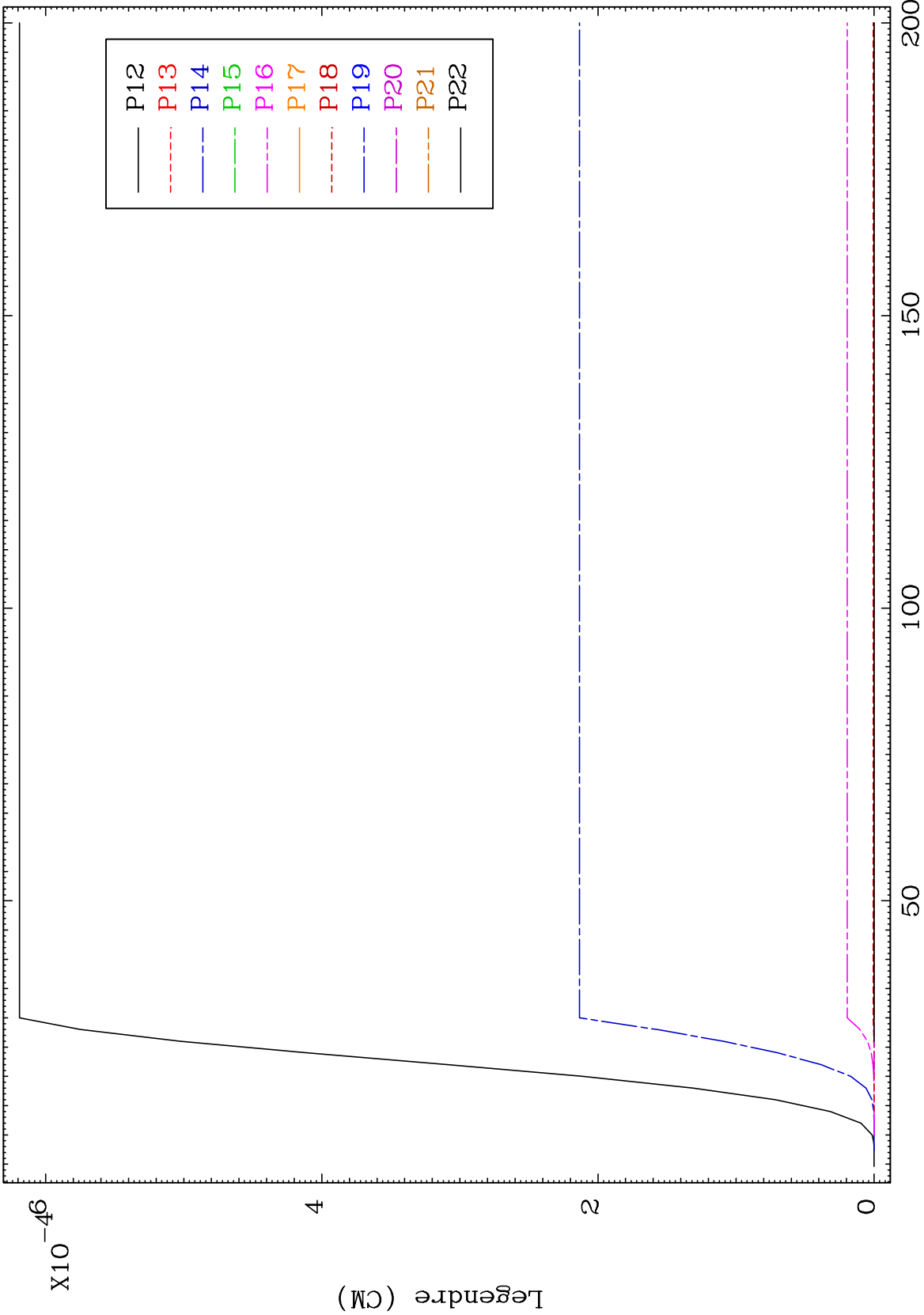




MAT 3925

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

39-Y -89



33

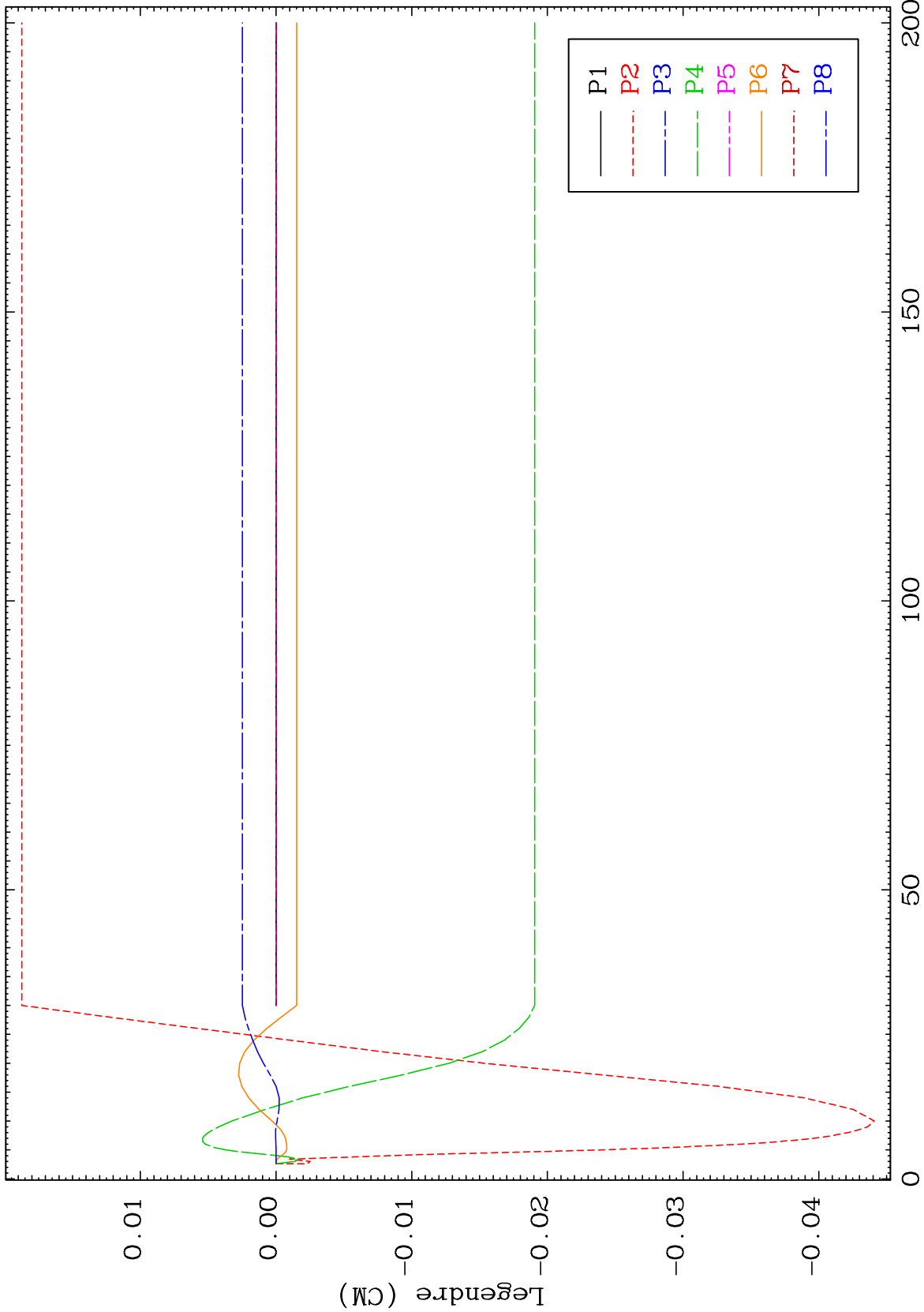
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



34

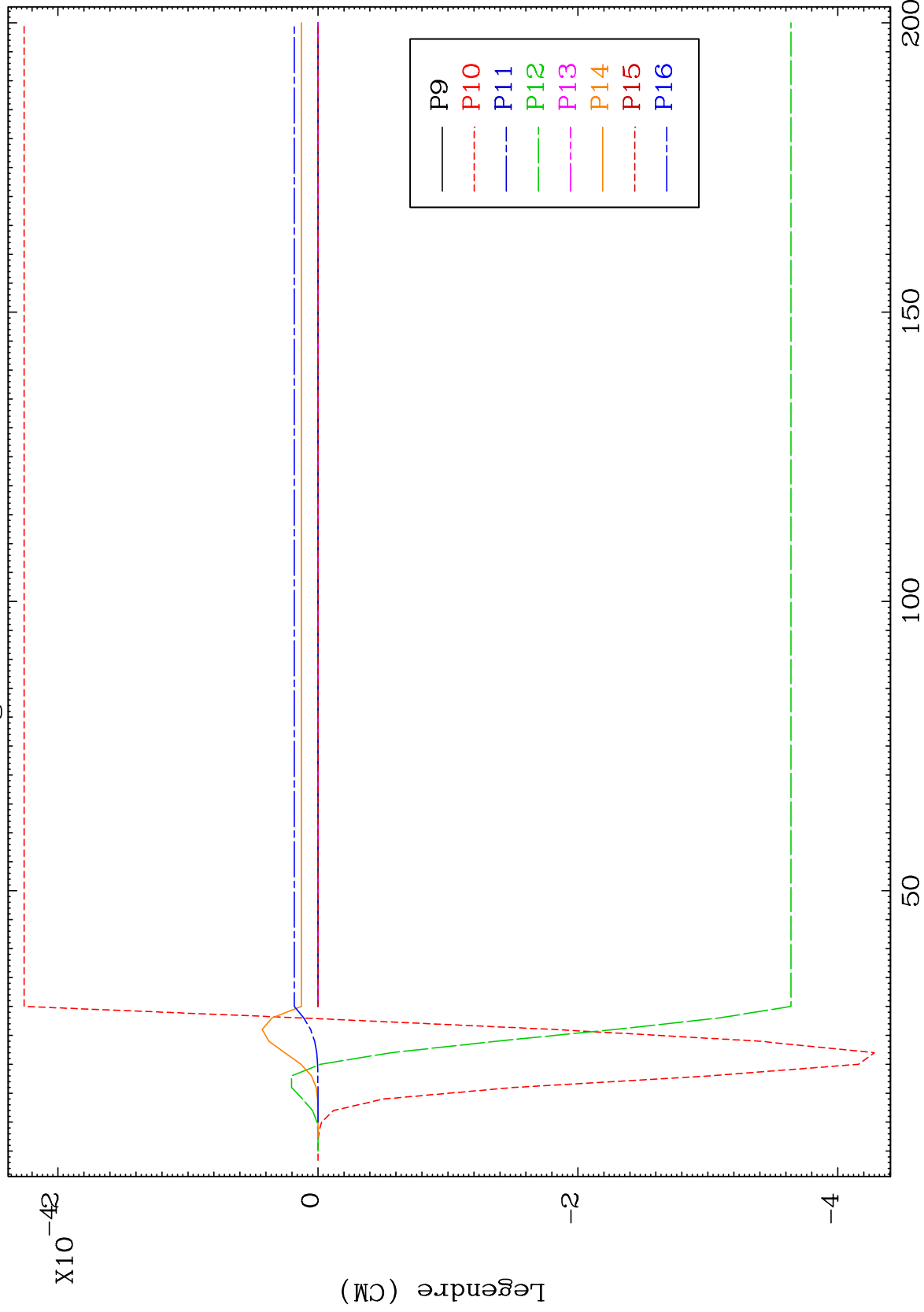
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



35

Incident Energy (MeV)

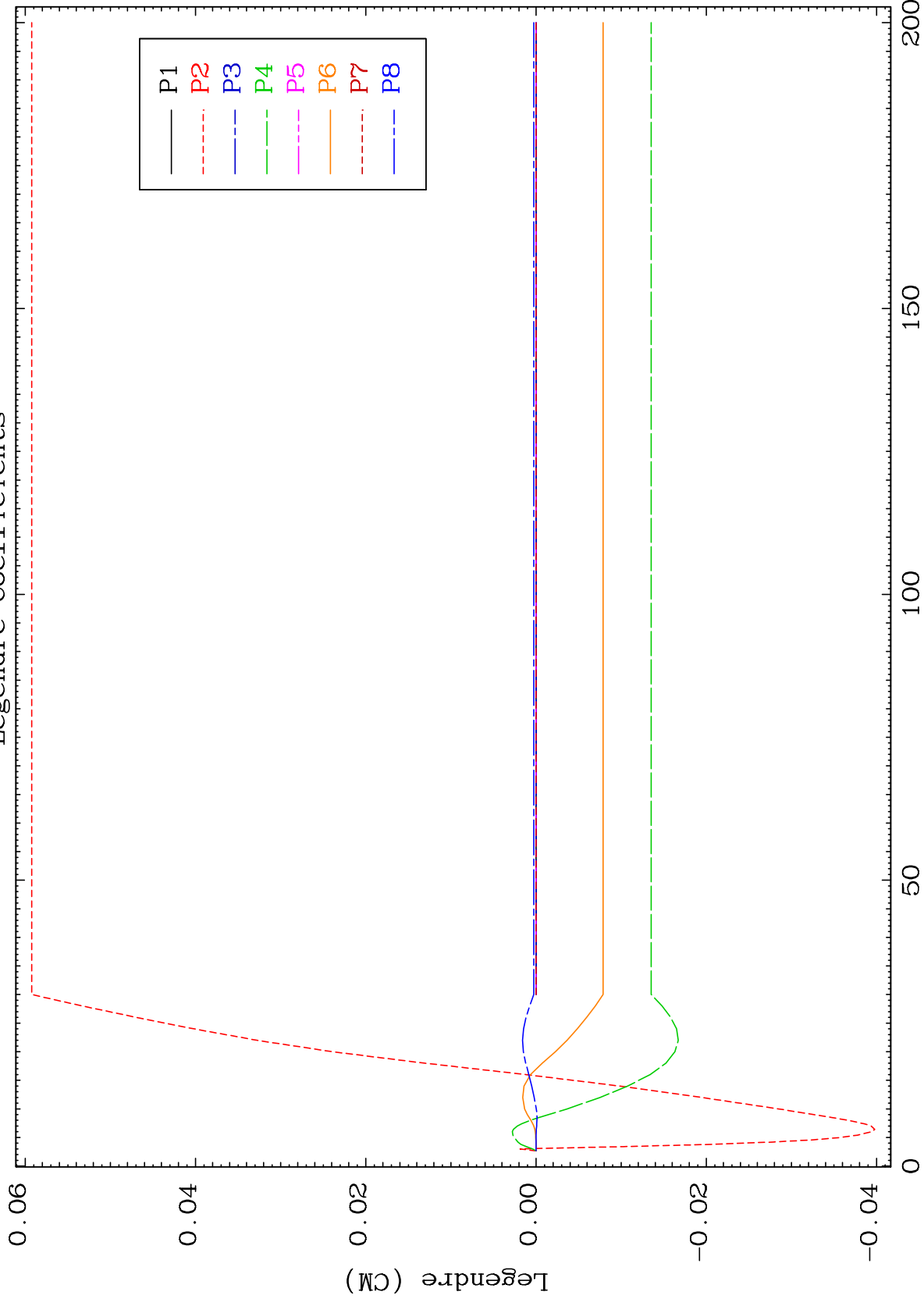
39-Y -89



MAT 3925

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

39-Y -89



37

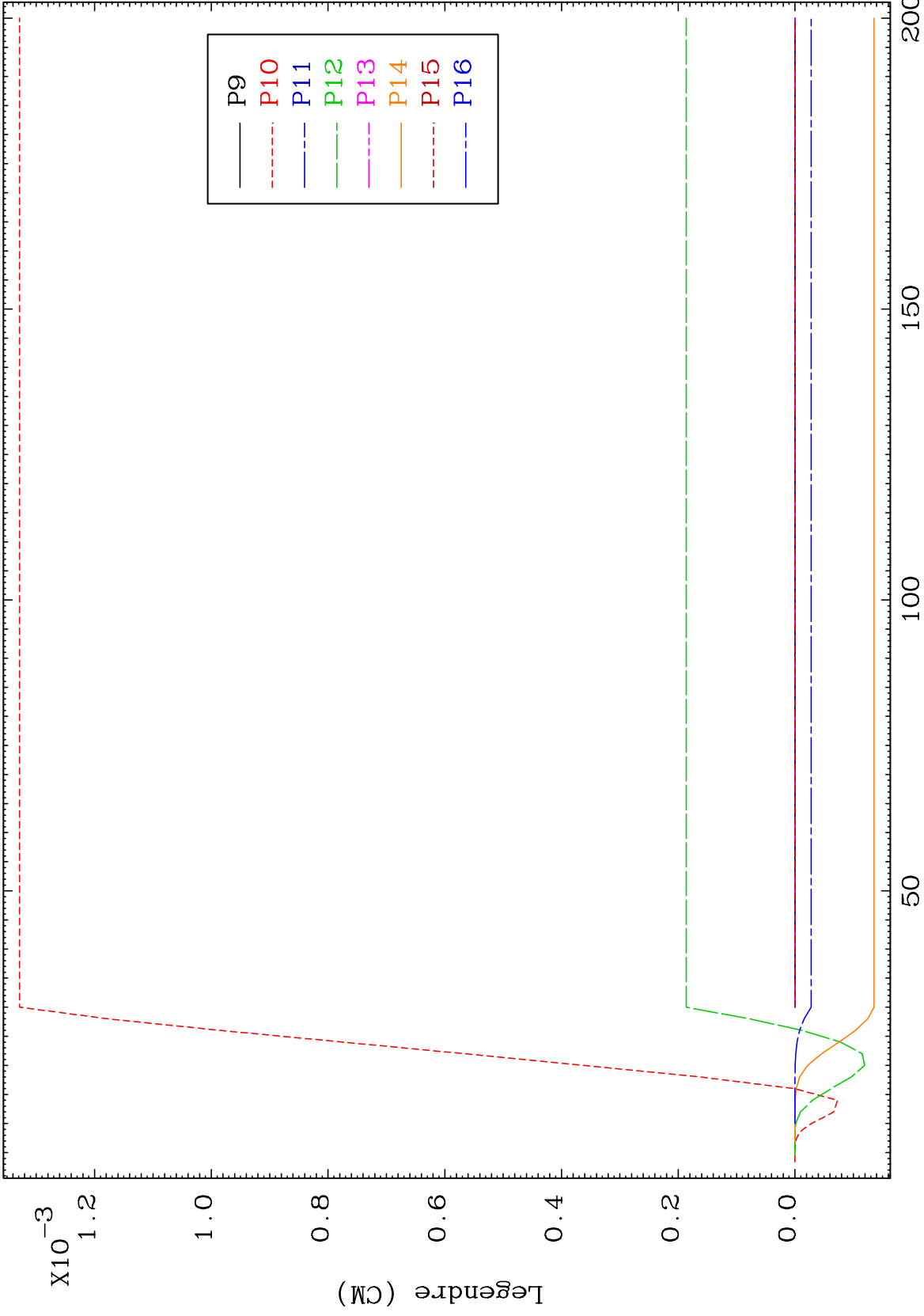
Incident Energy (MeV)

39-Y -89

MAT 3925

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

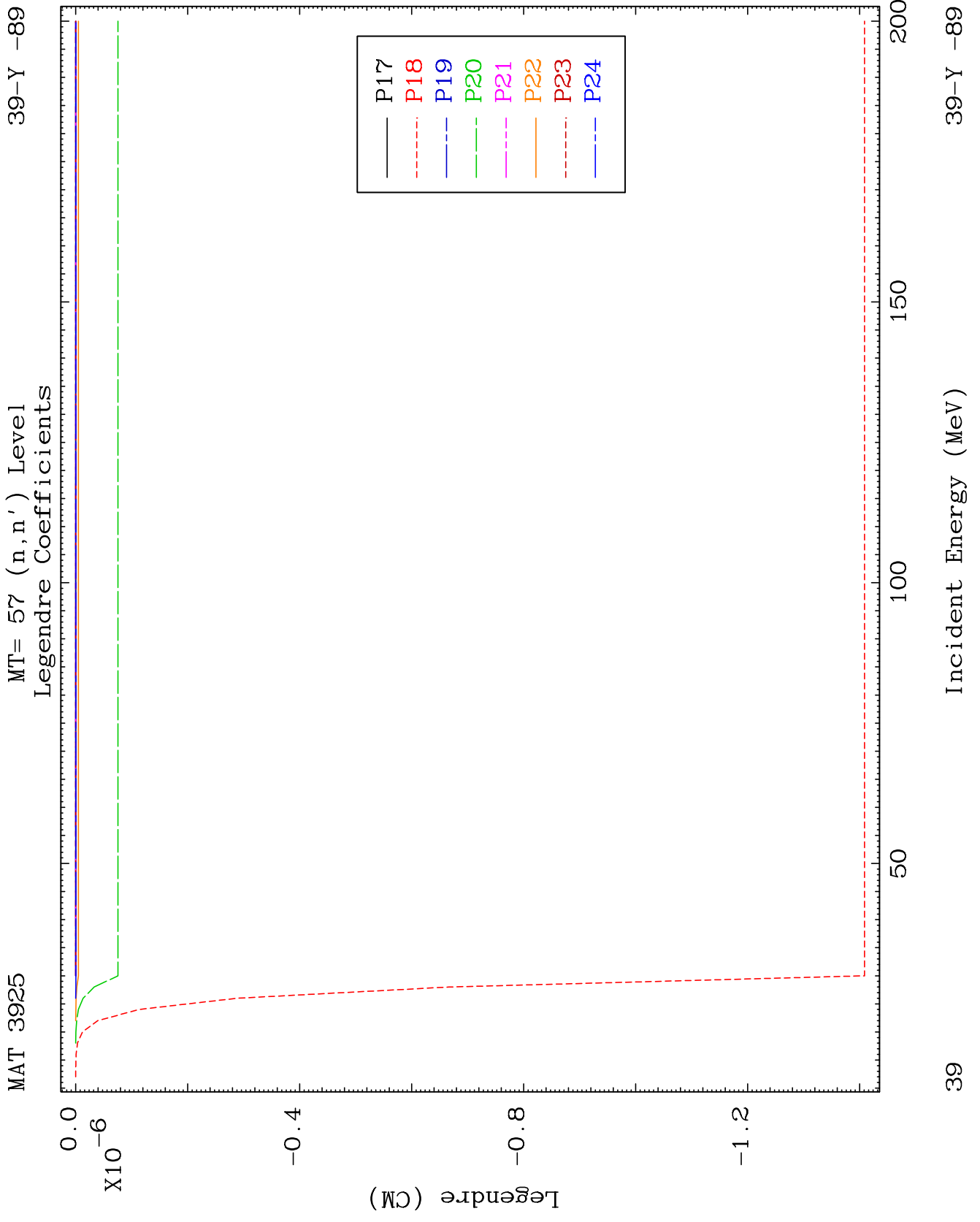
39-Y -89



38

Incident Energy (MeV)

39-Y -89

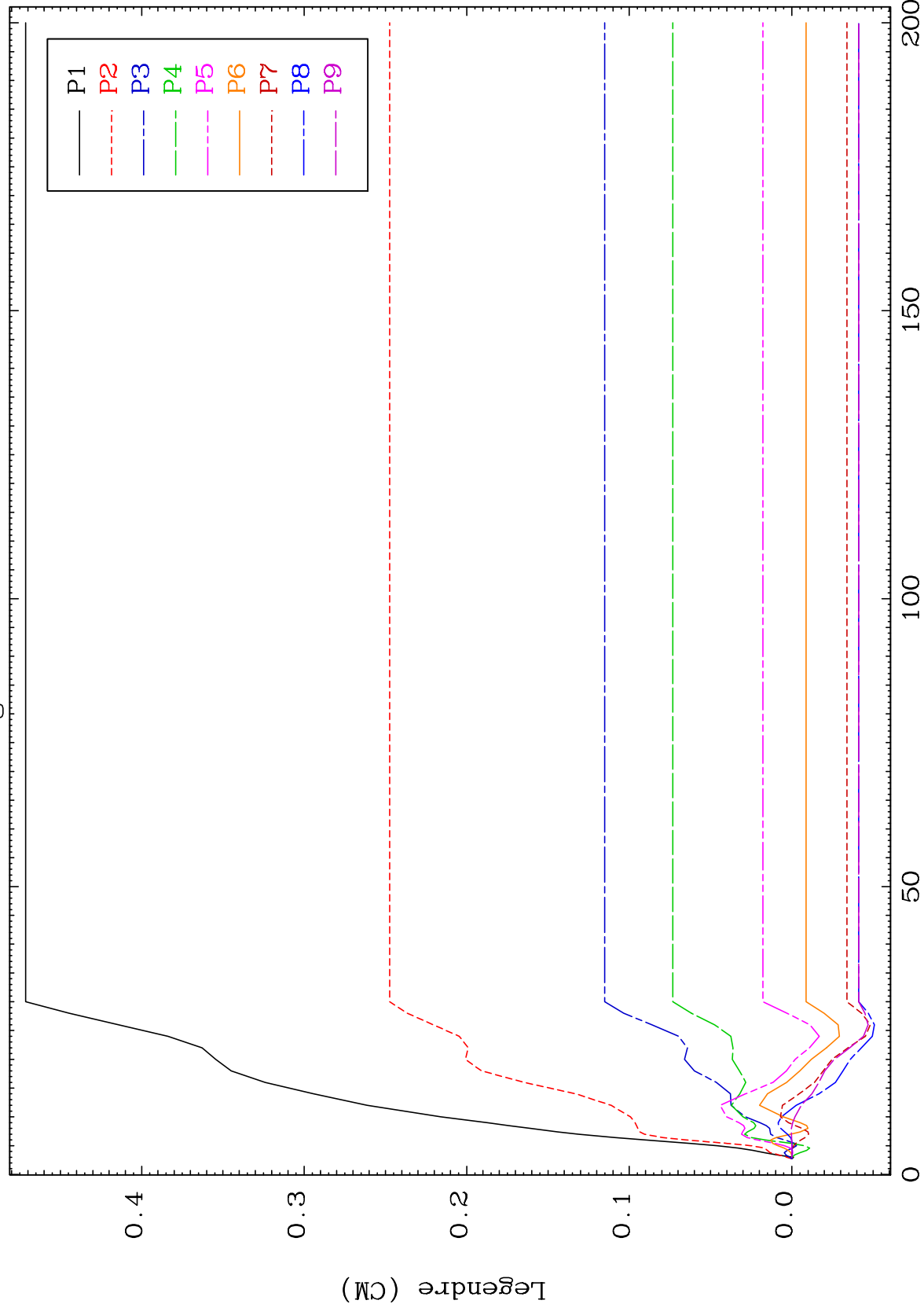




MAT 3925

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

39-Y -89



39-Y -89

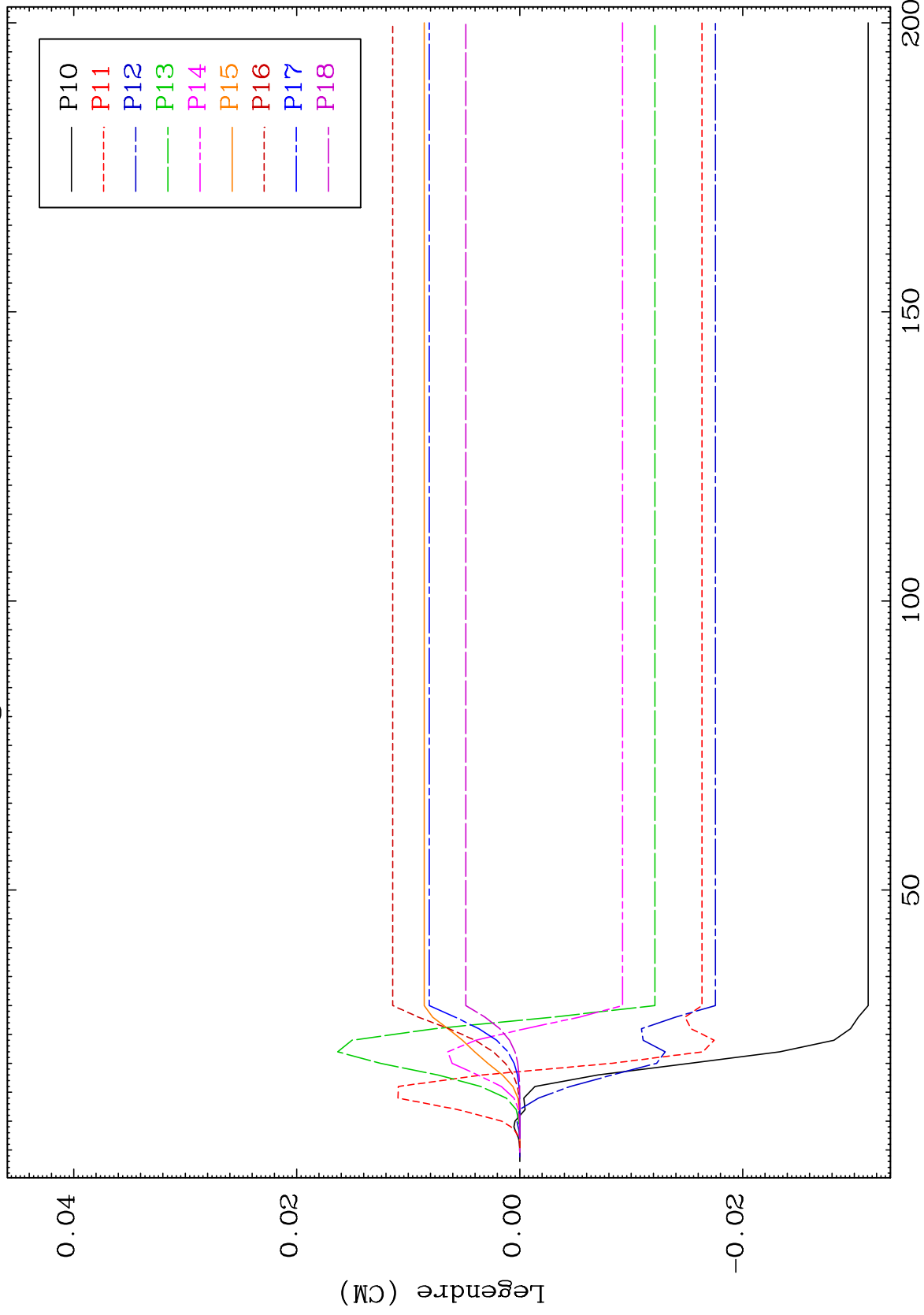
Incident Energy (MeV)

40

MAT 3925

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

39-Y -89



41

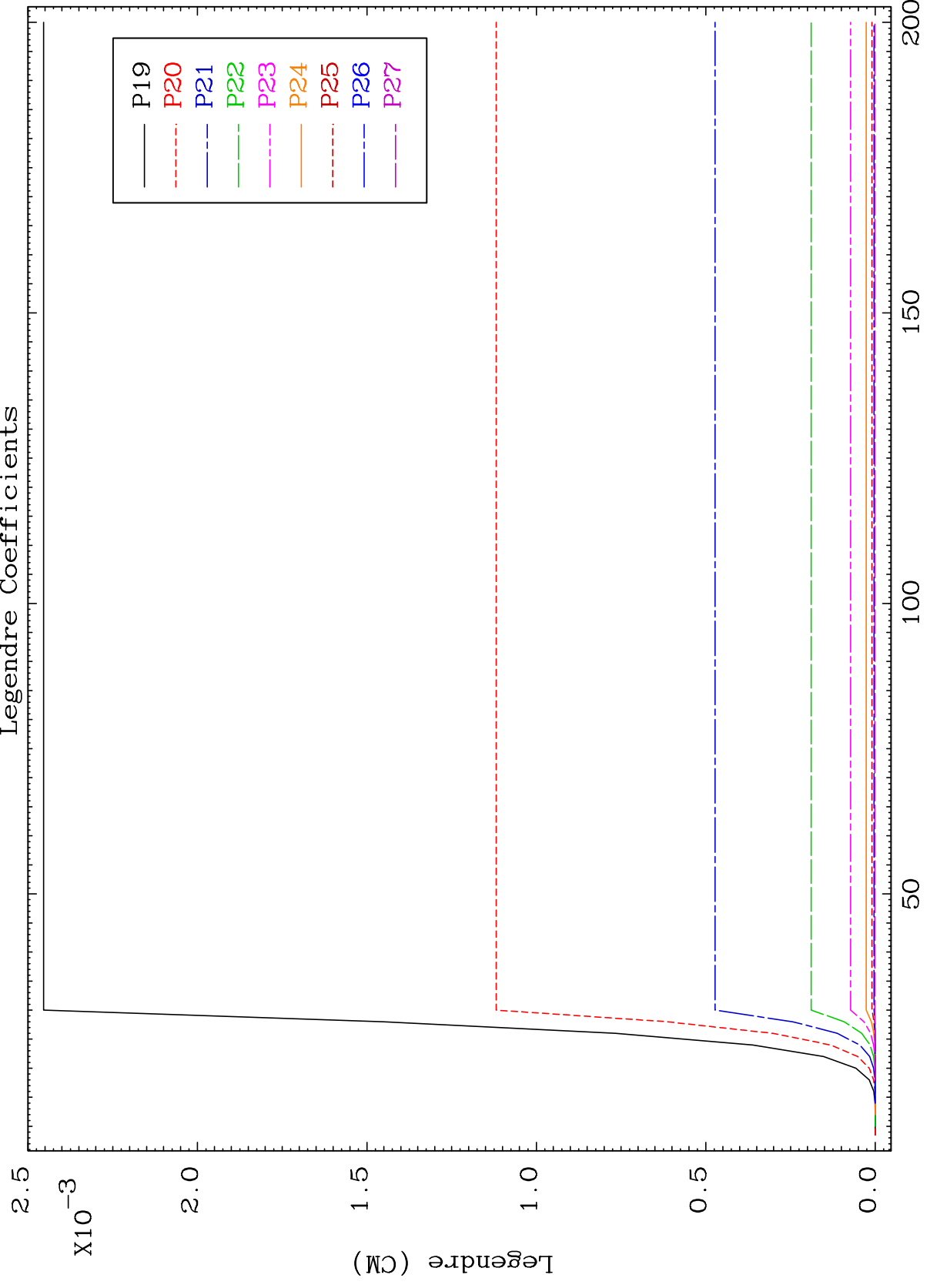
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



42

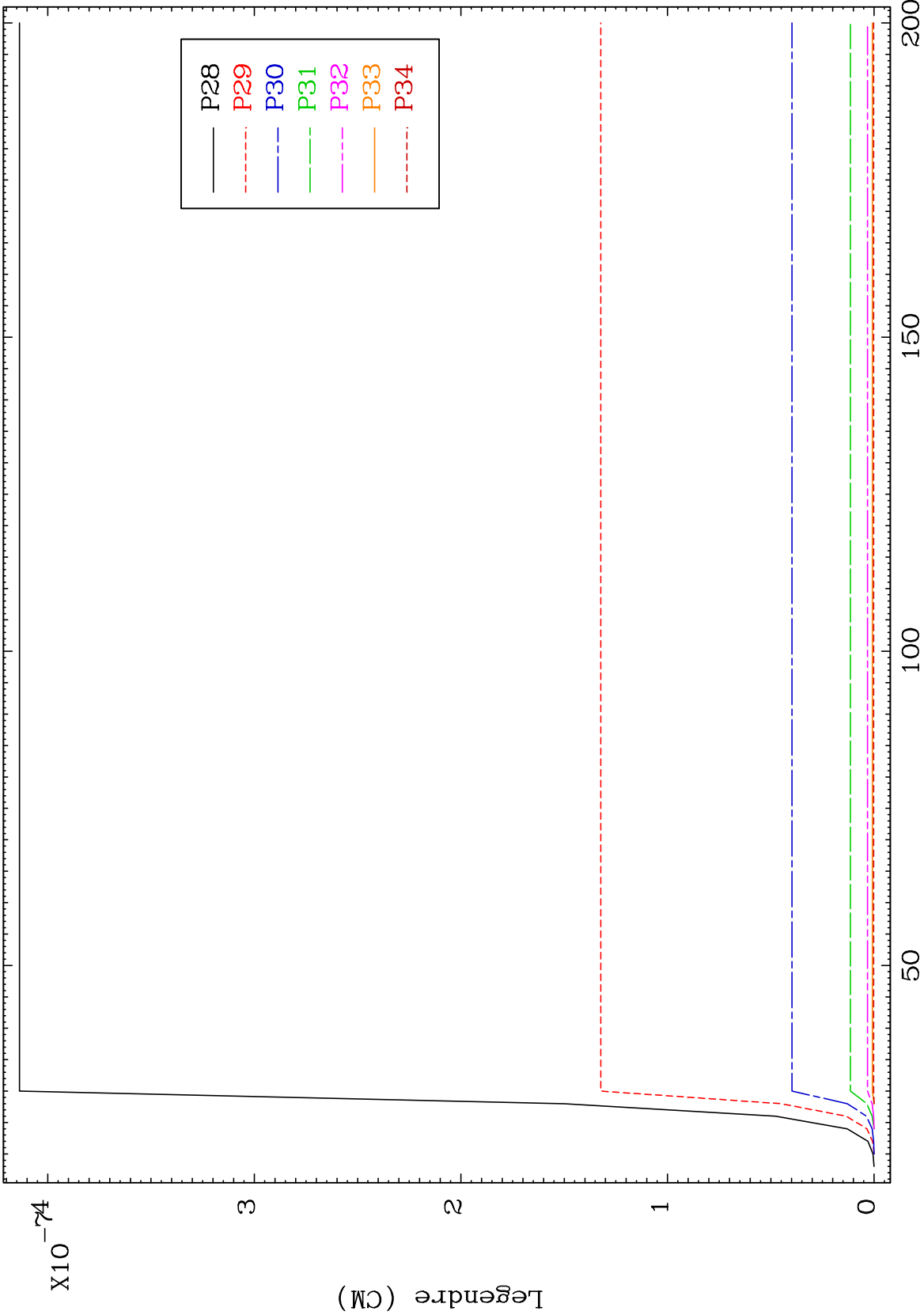
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



43

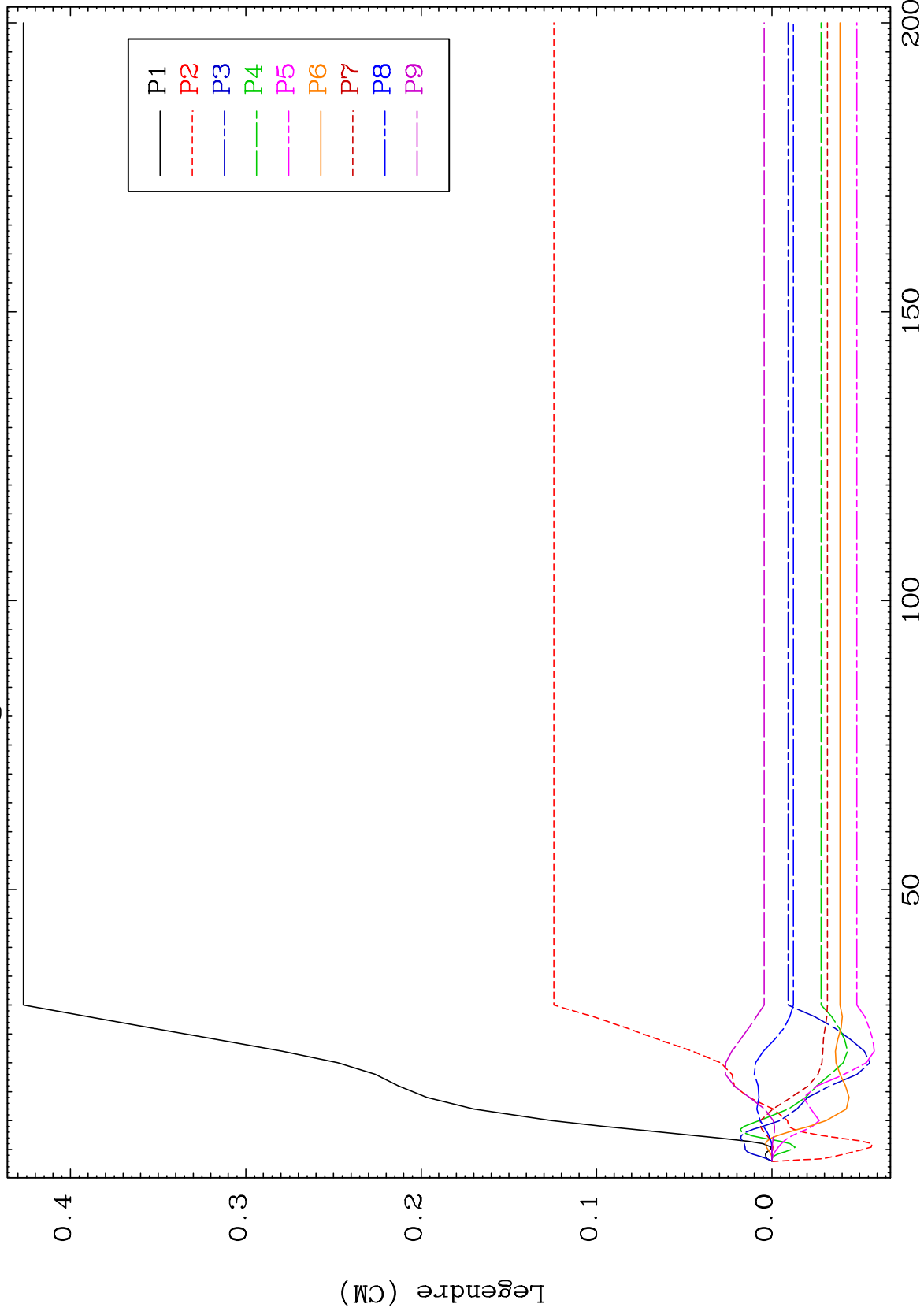
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



44

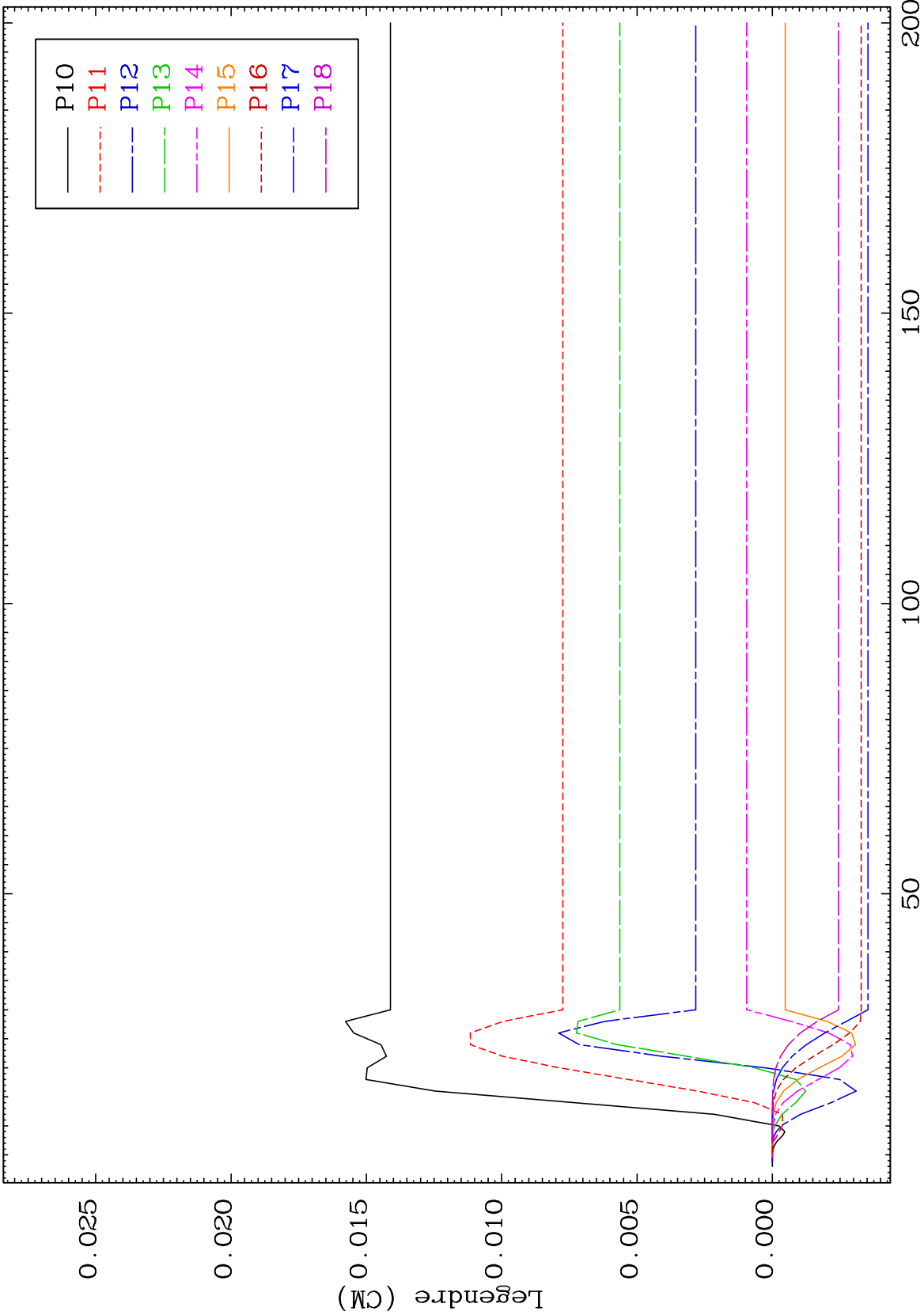
Incident Energy (MeV)

39-Y -89

MAT 3925

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

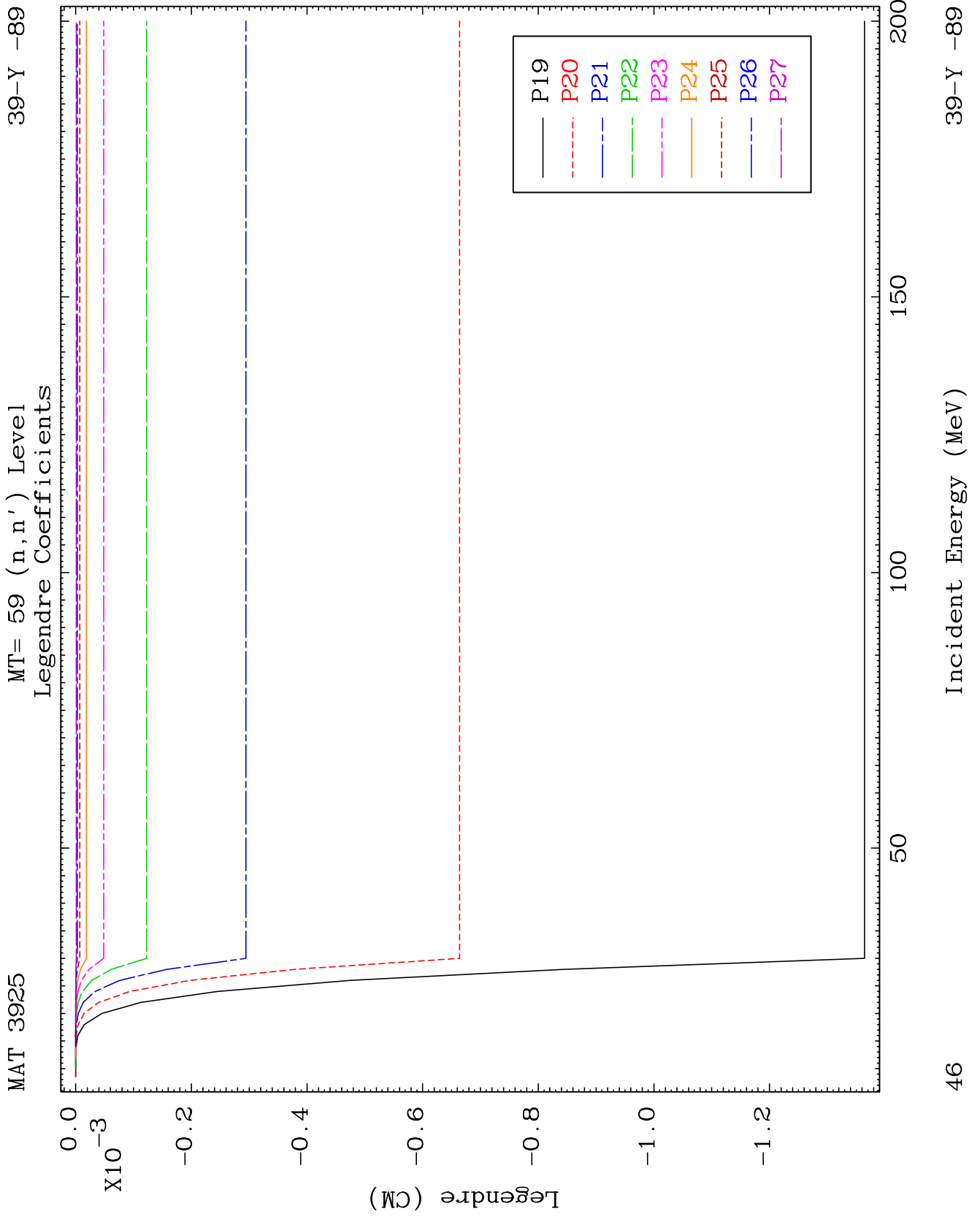
39-Y -89

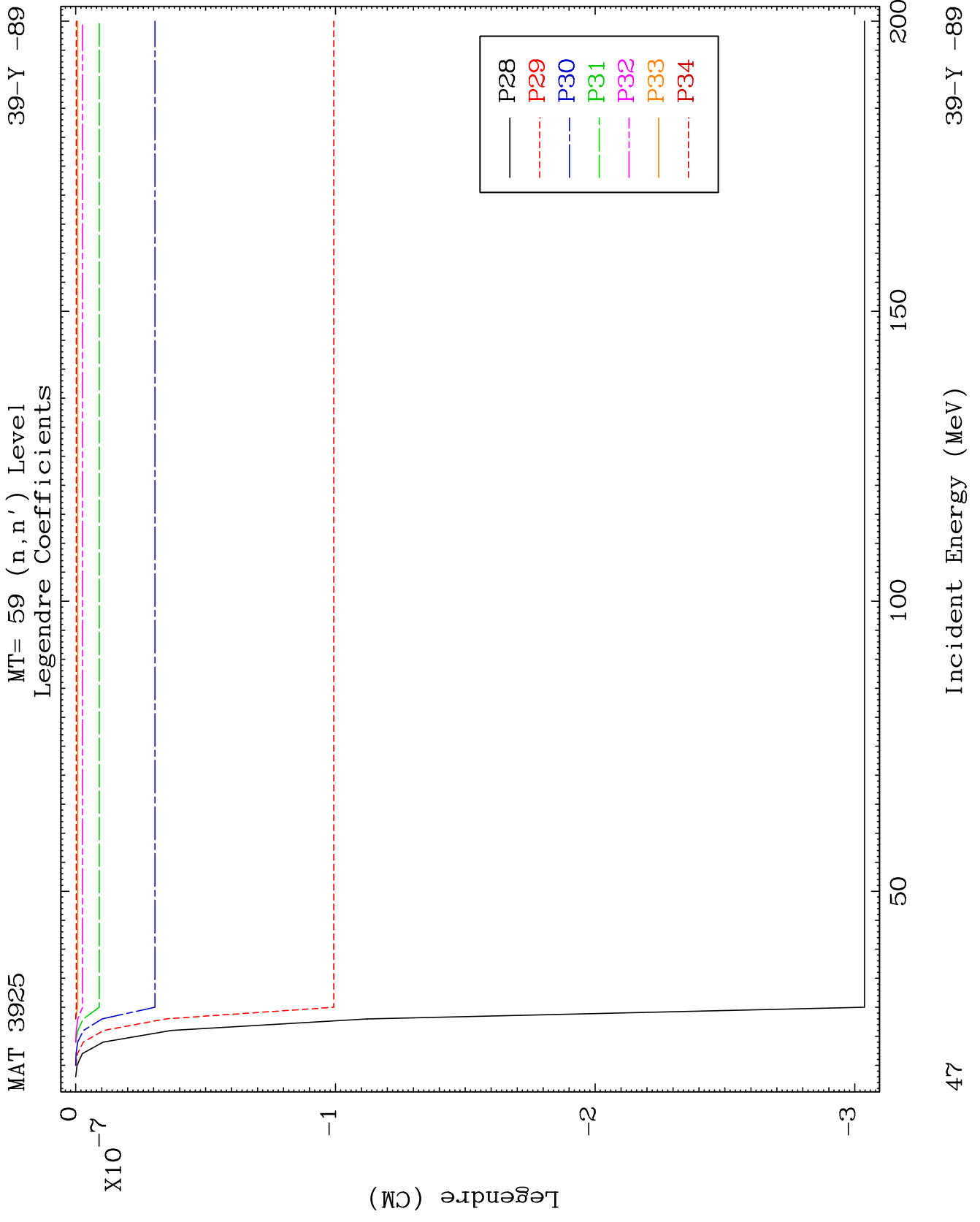


45

Incident Energy (MeV)

39-Y -89





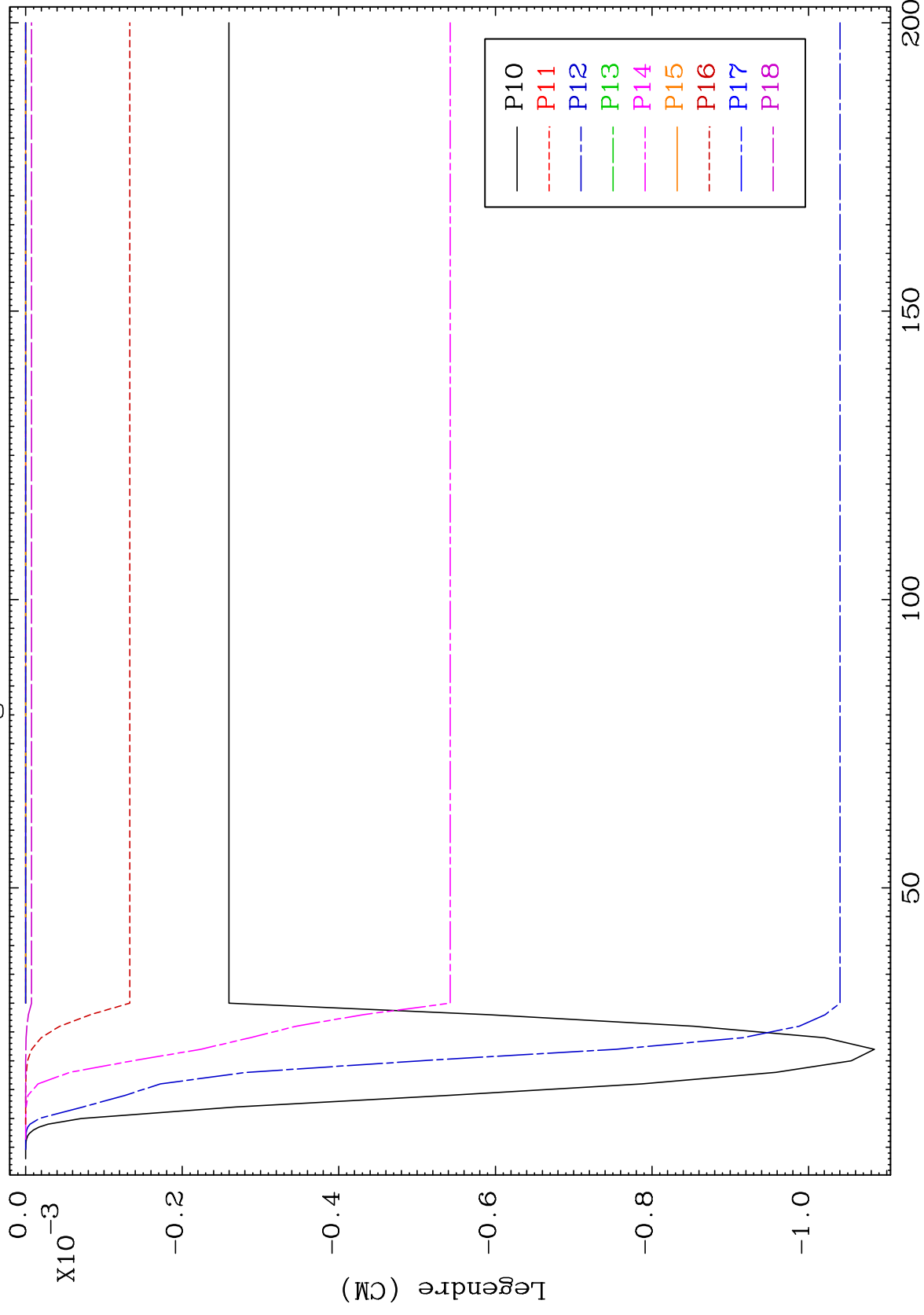




MAT 3925

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

39-Y -89

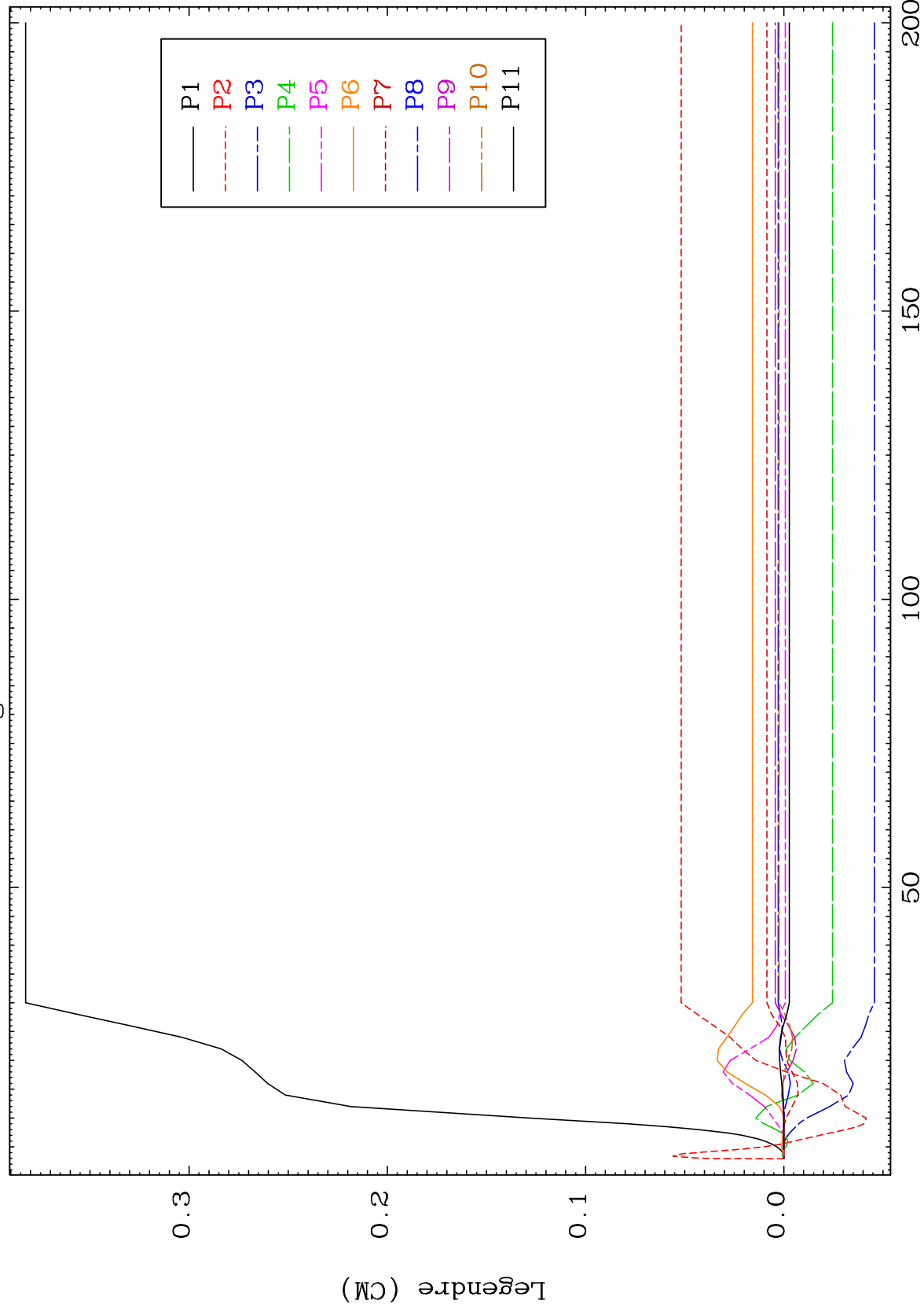


39-Y -89

Incident Energy (MeV)

49

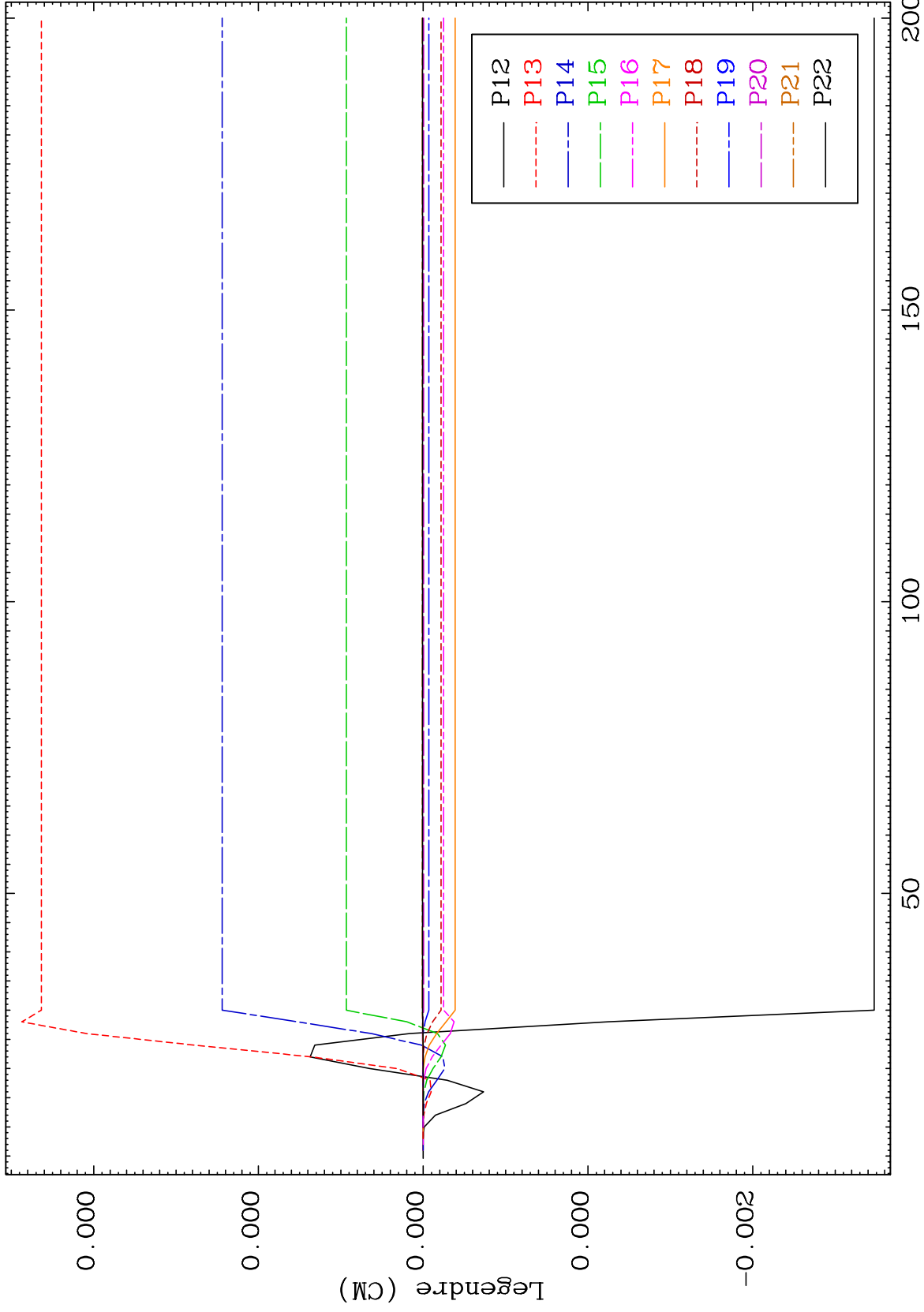




MAT 3925

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

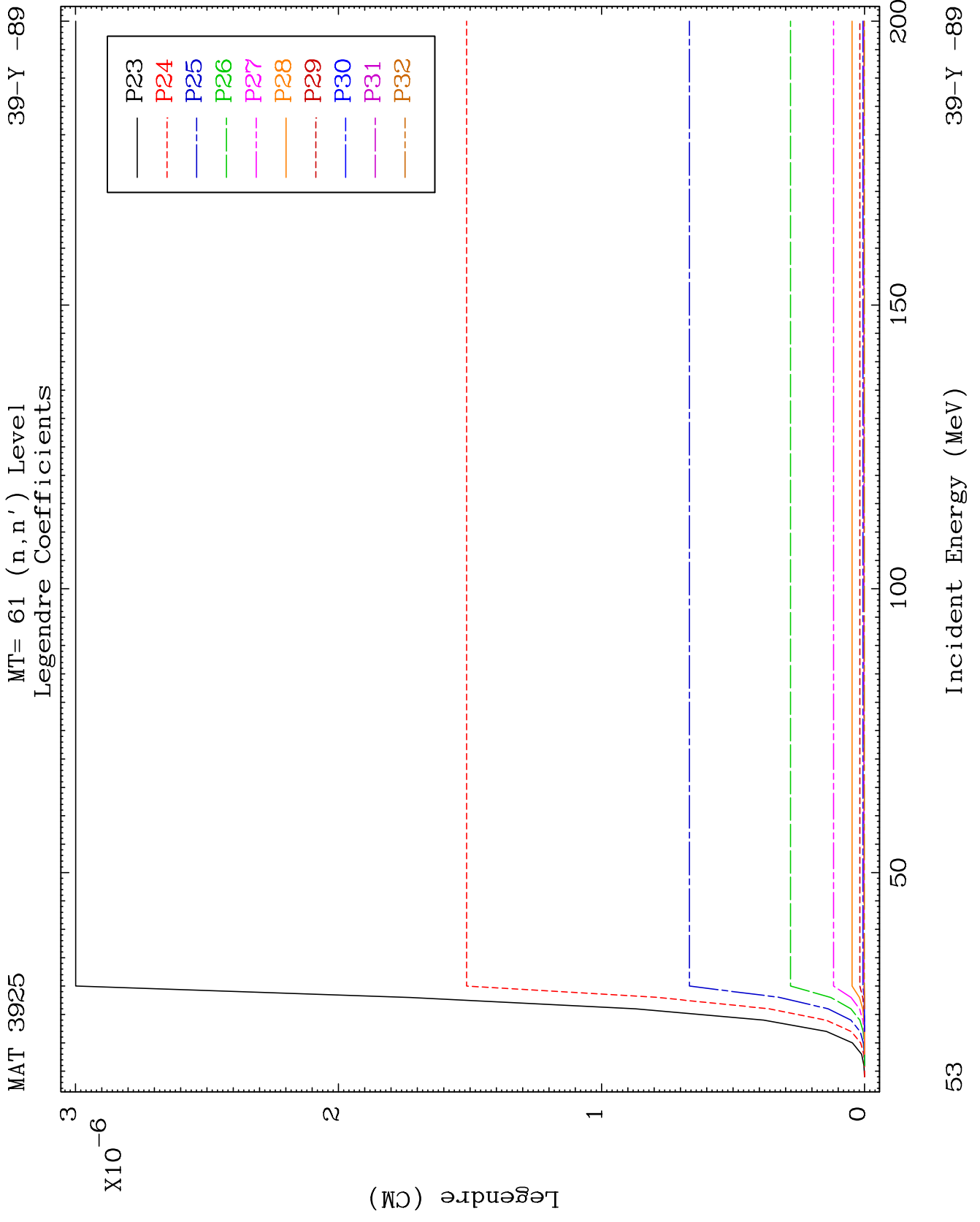
39-Y -89



52

Incident Energy (MeV)

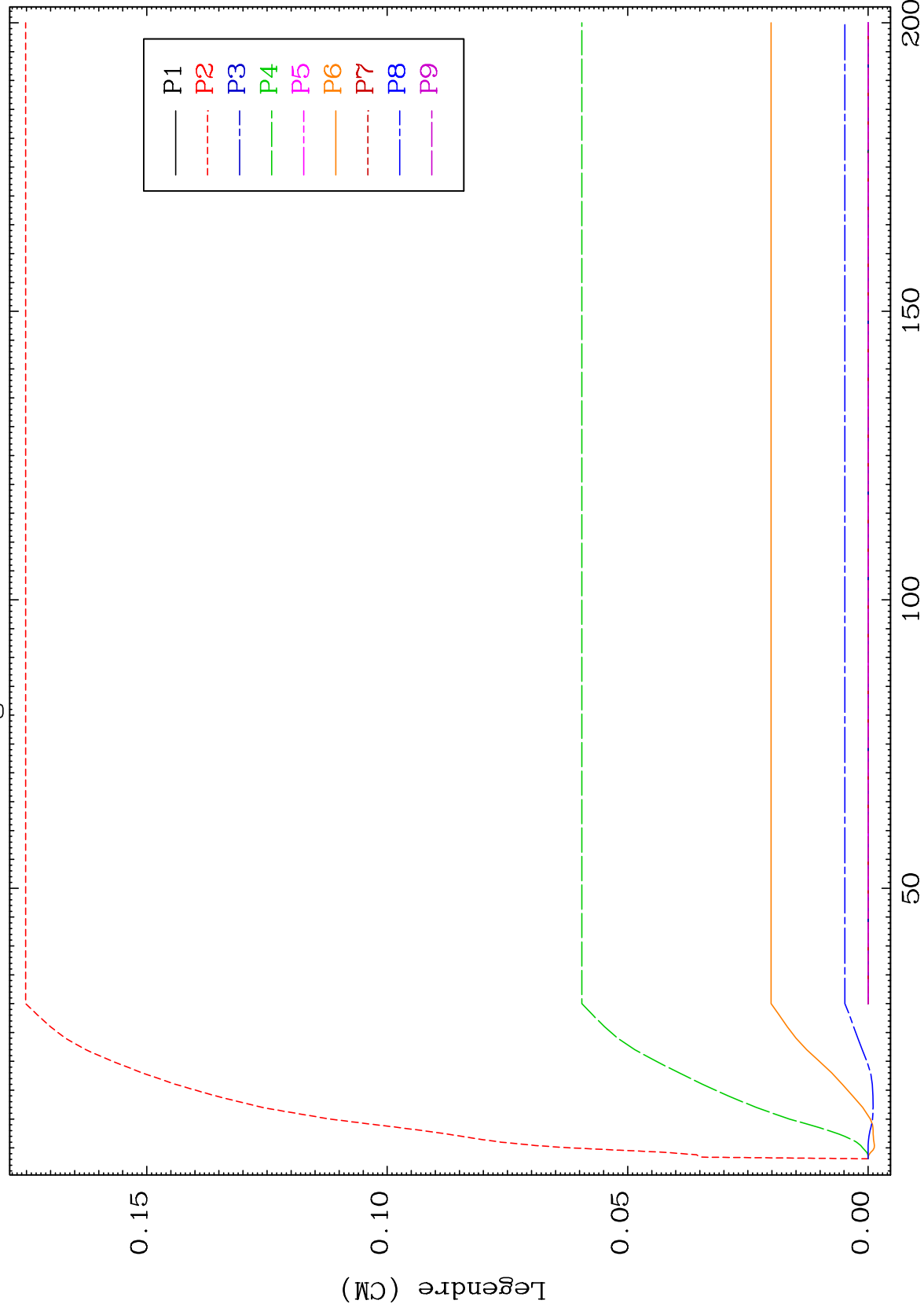
39-Y -89



MAT 3925

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

39-Y -89



54

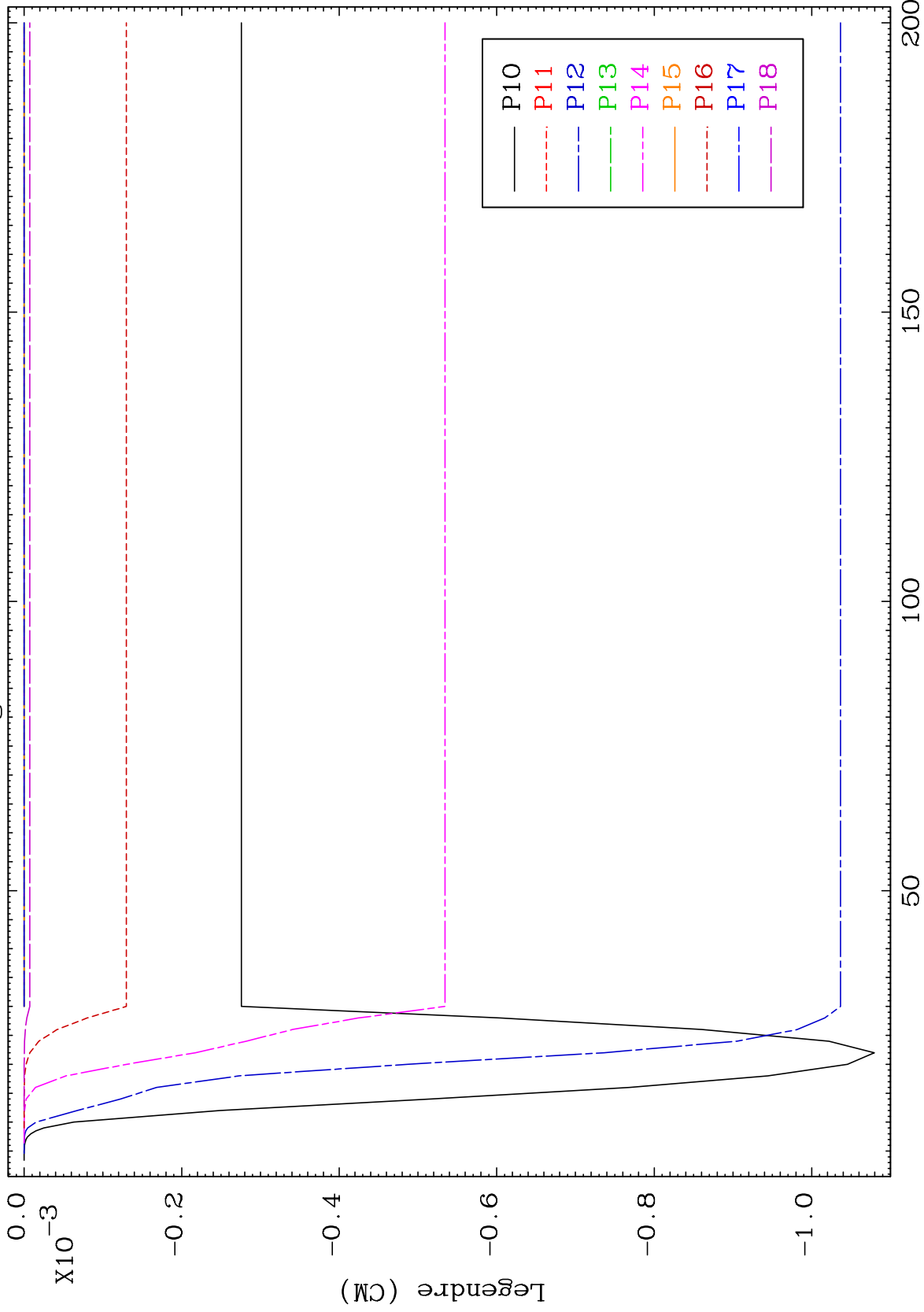
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



55

Incident Energy (MeV)

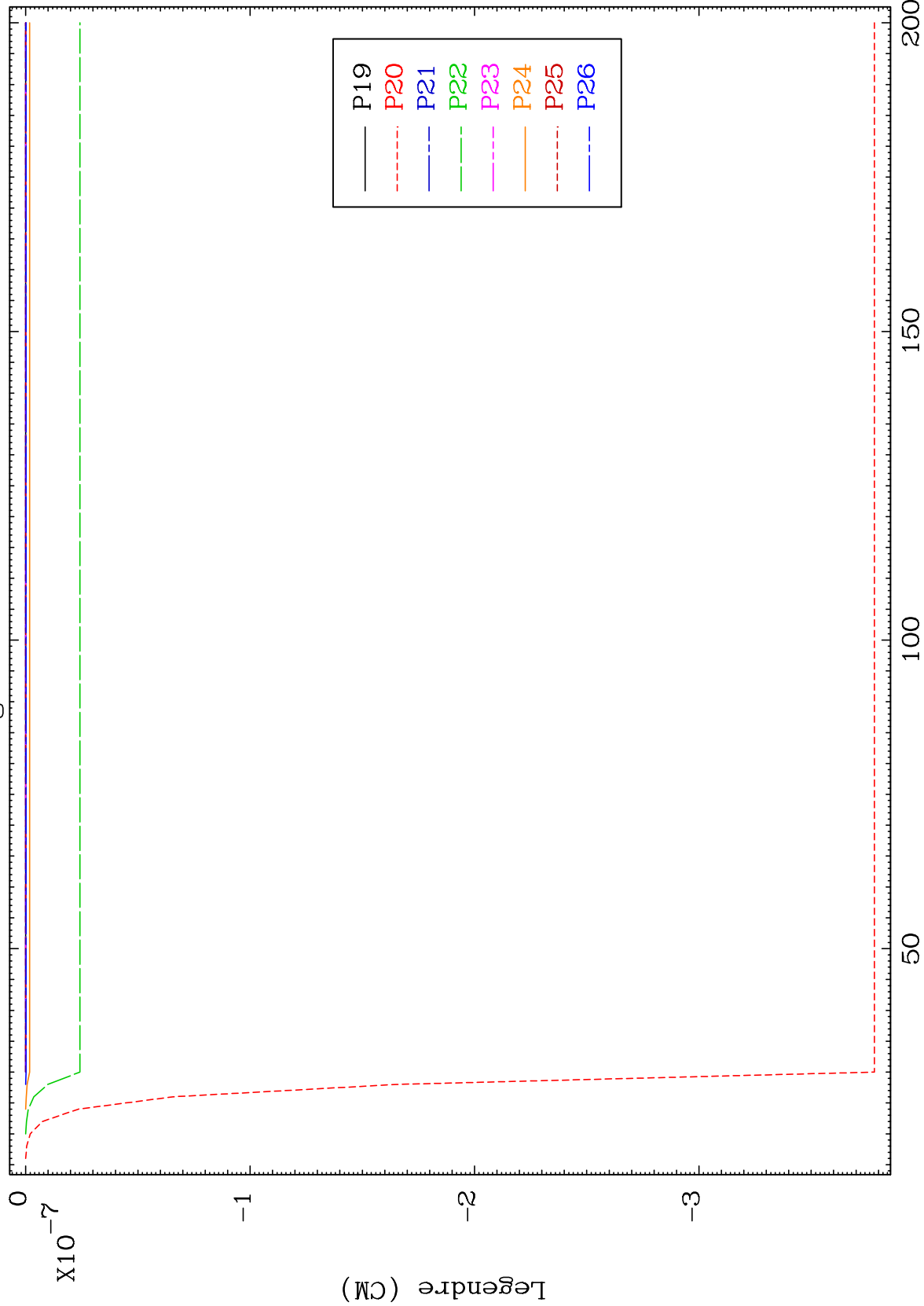
39-Y -89



MAT 3925

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

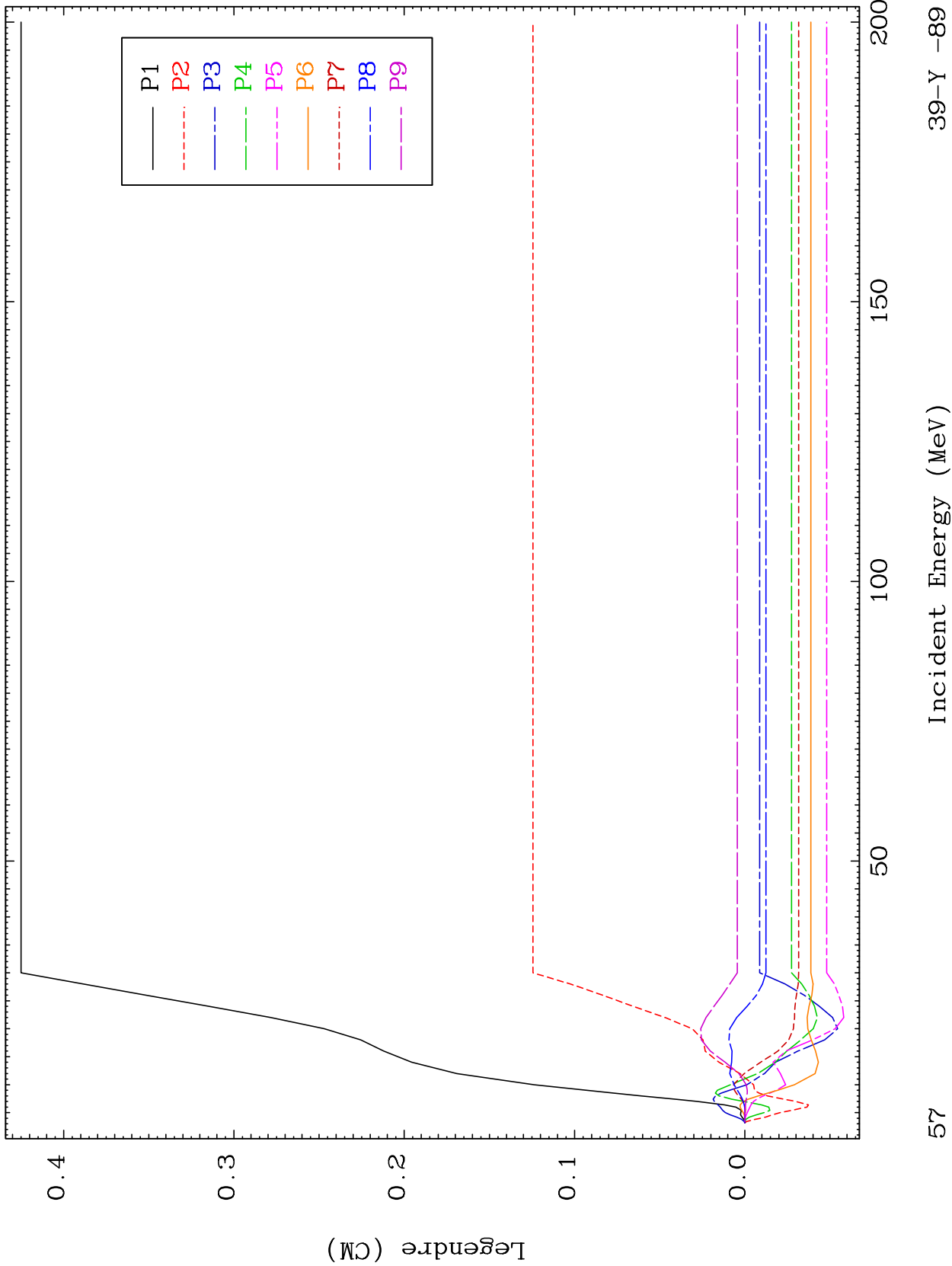
39-Y -89

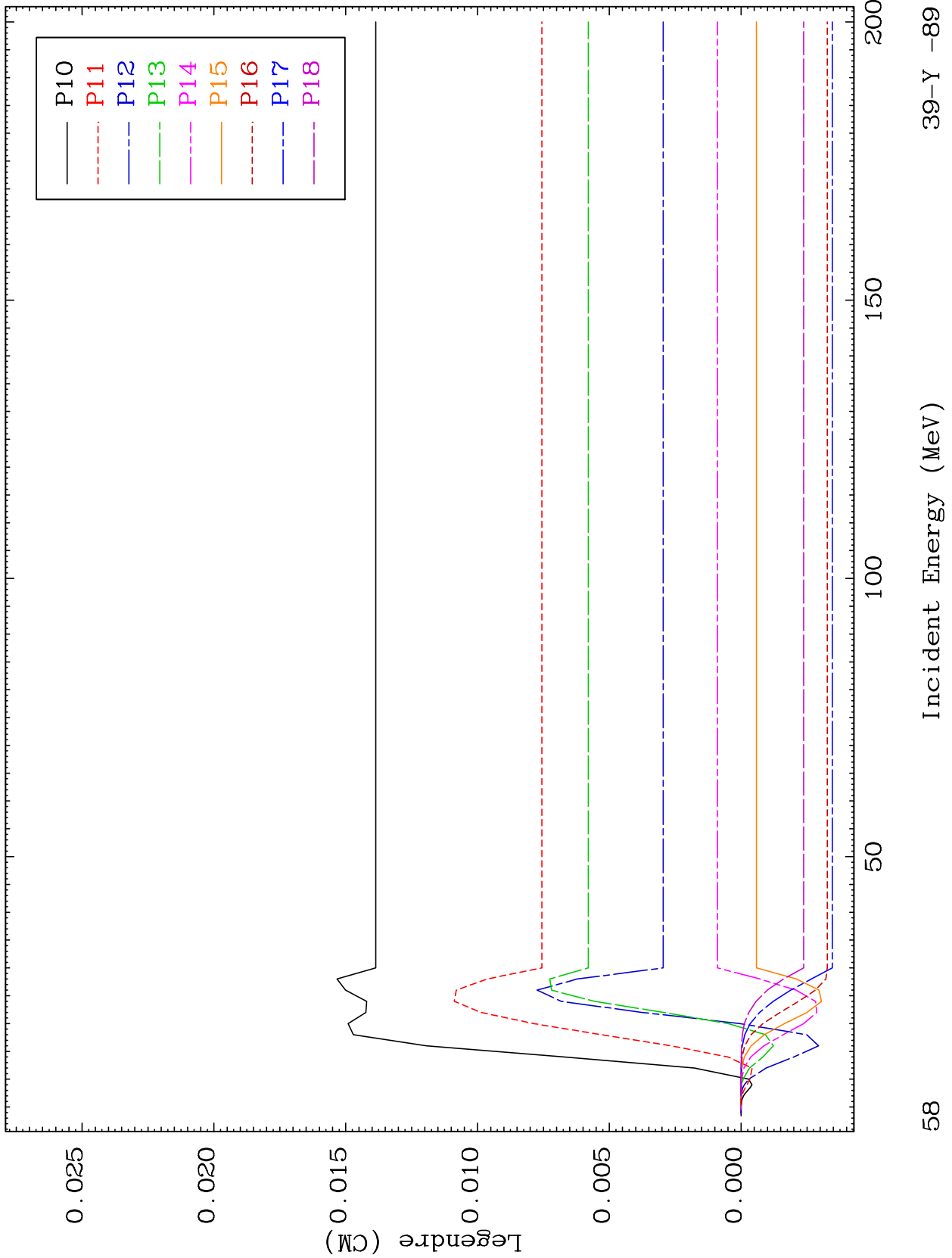


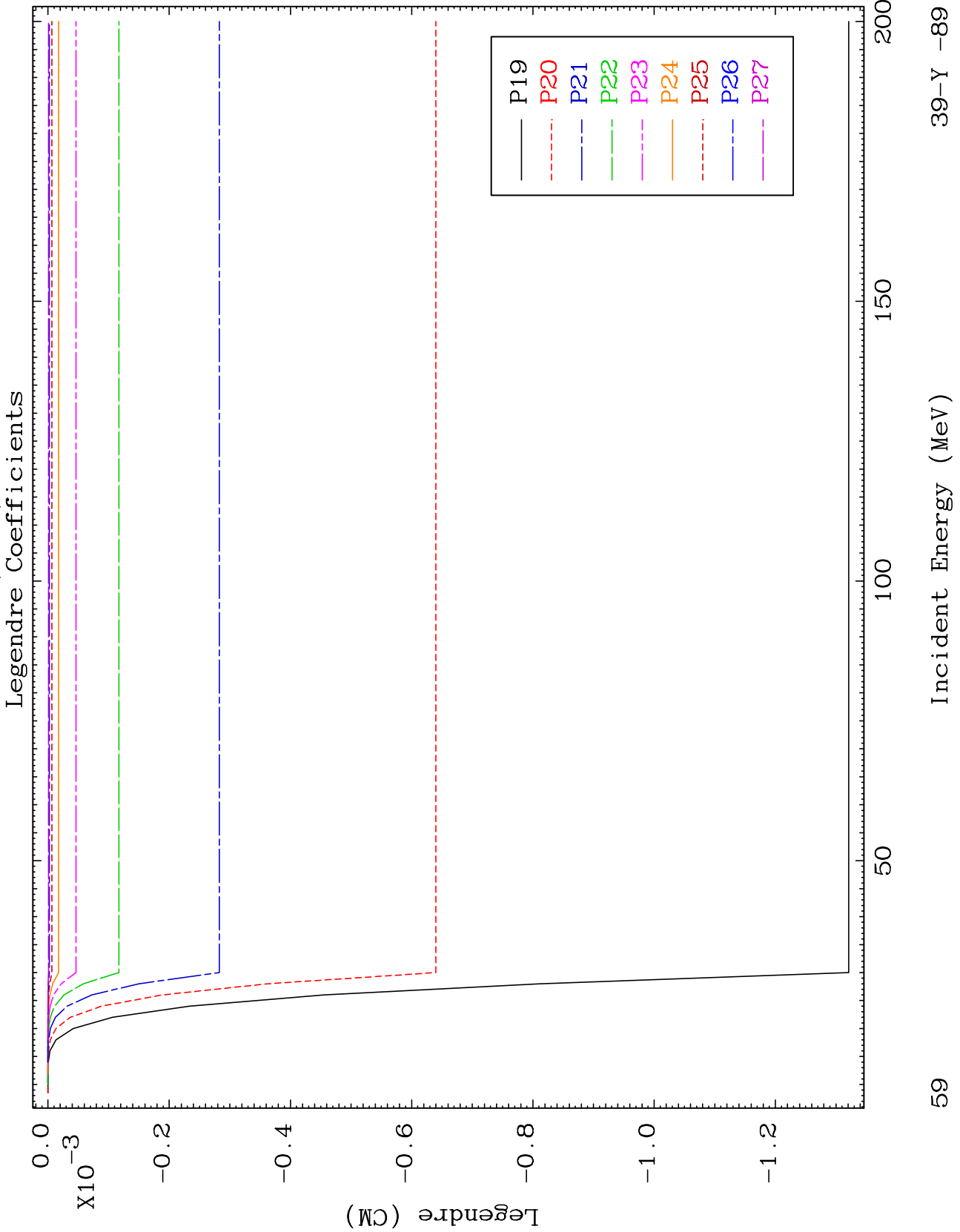
56

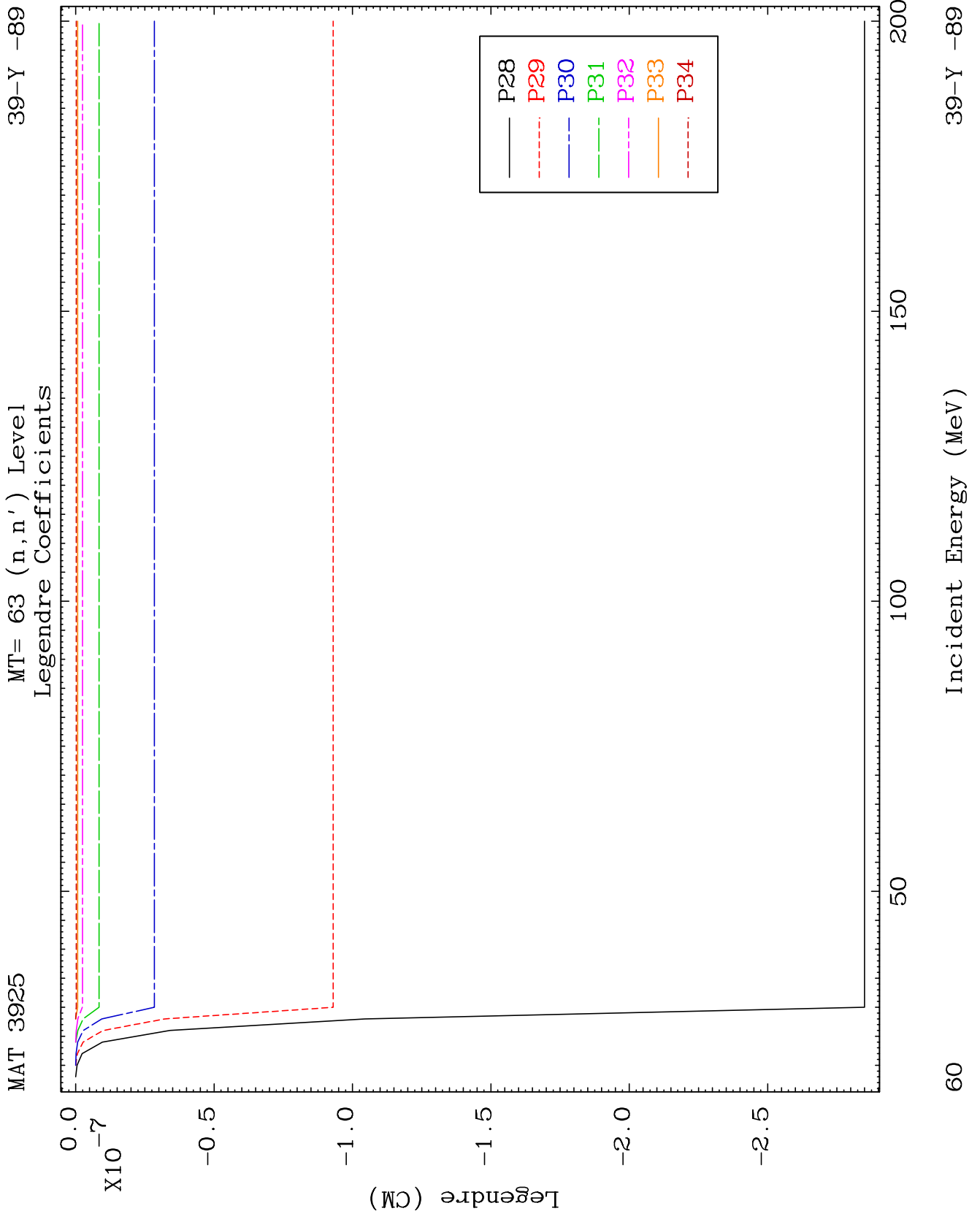
Incident Energy (MeV)

39-Y -89





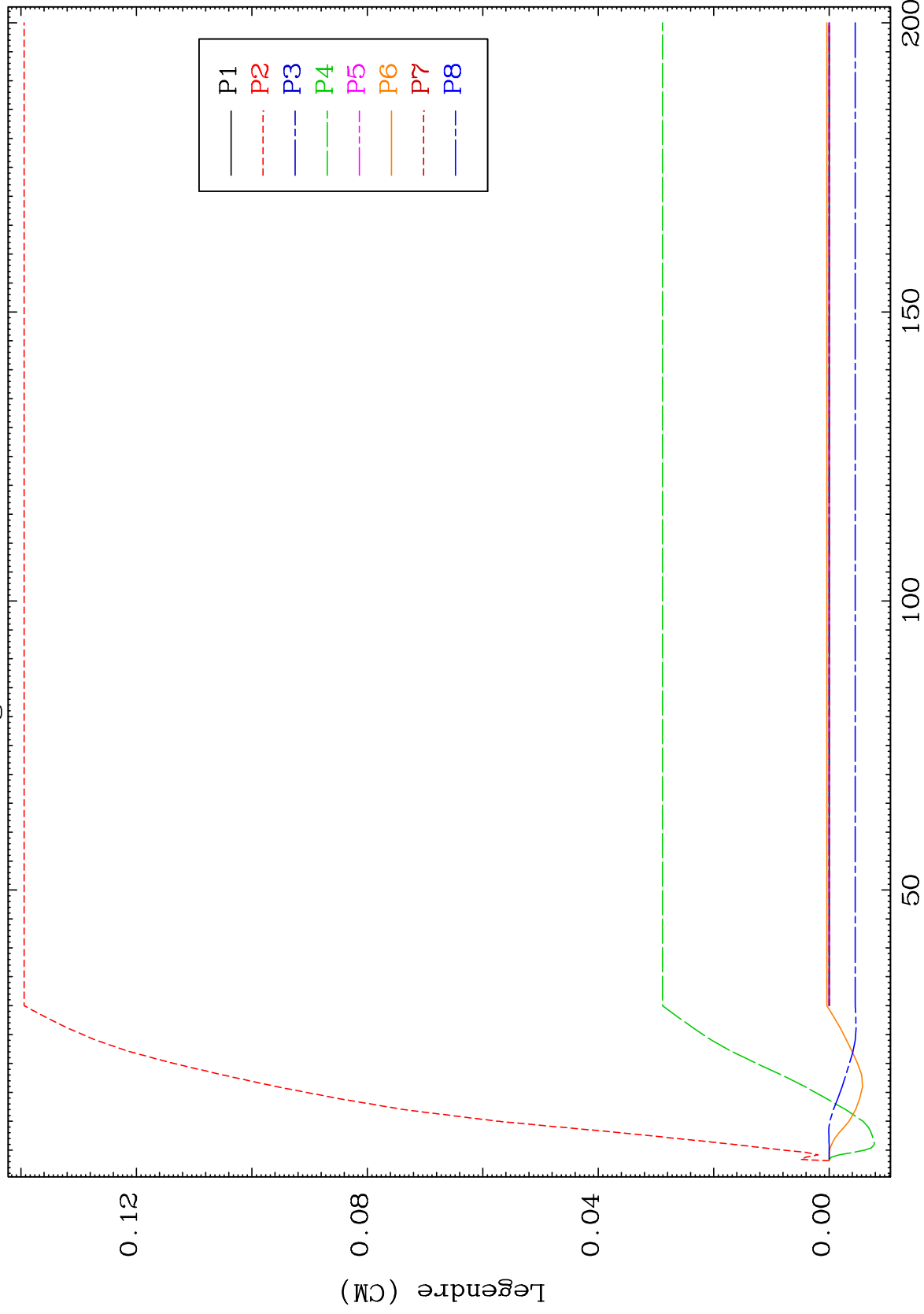




MAT 3925

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

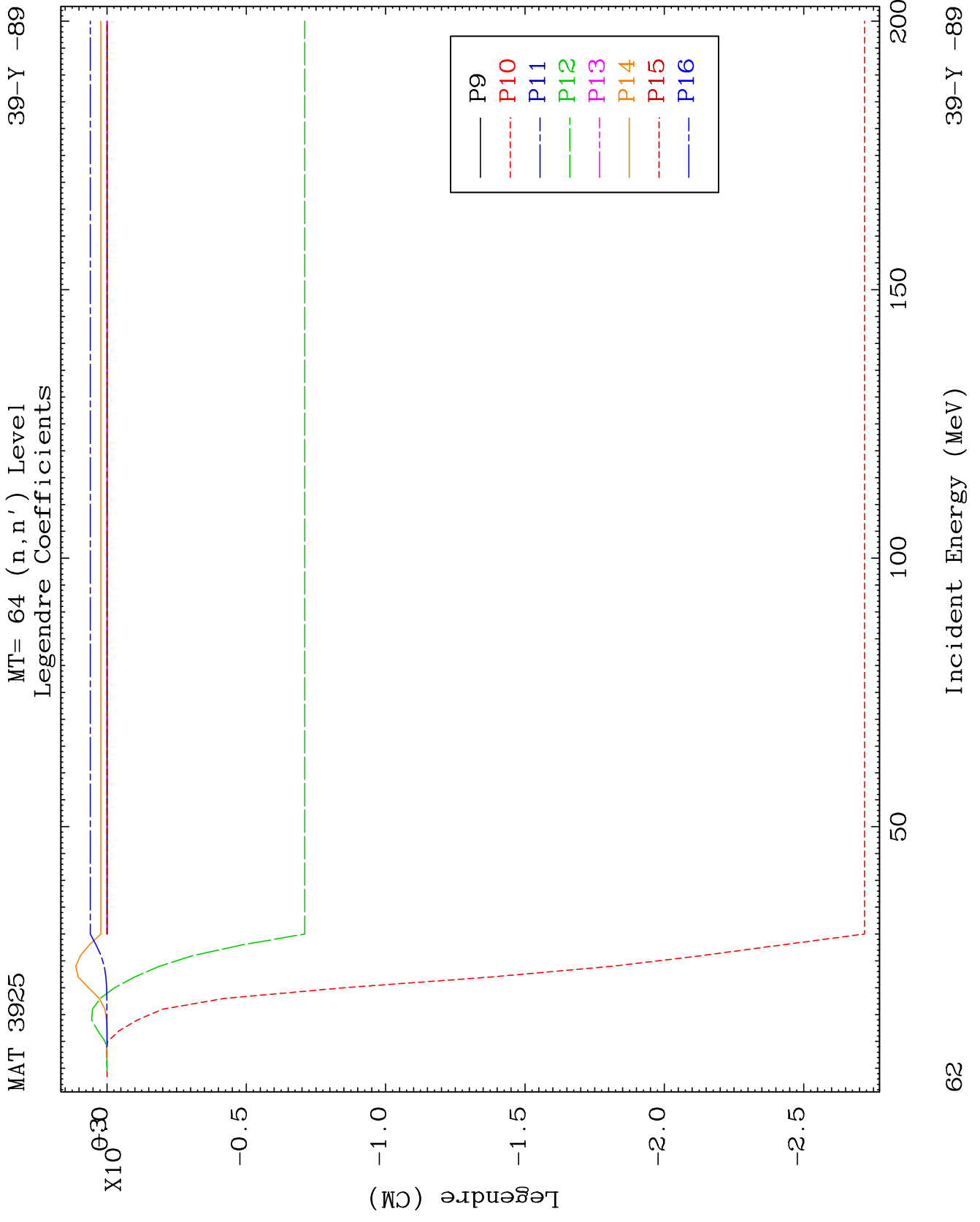
39-Y -89



61

Incident Energy (MeV)

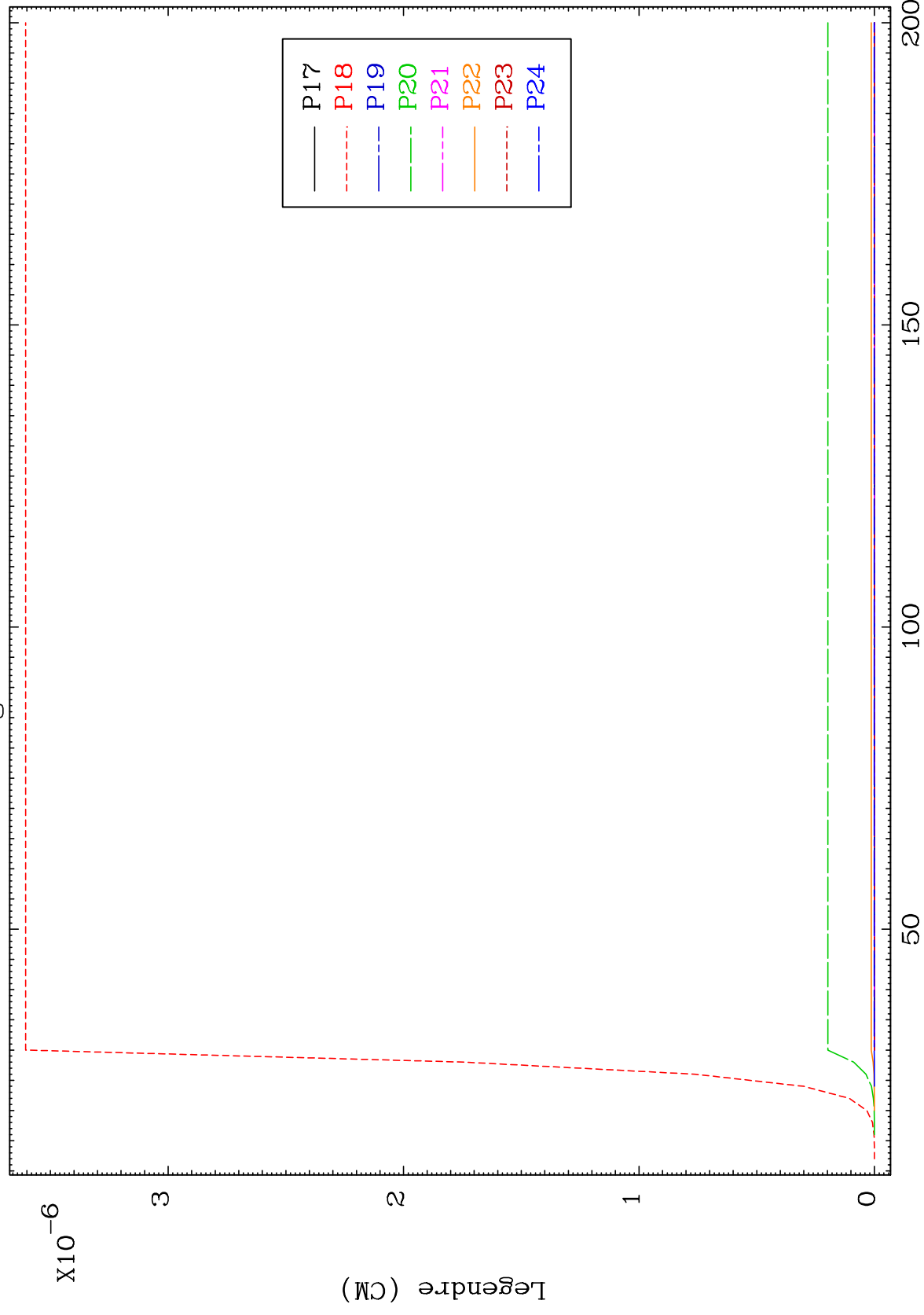
39-Y -89



MAT 3925

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

39-Y -89



39-Y -89

Incident Energy (MeV)

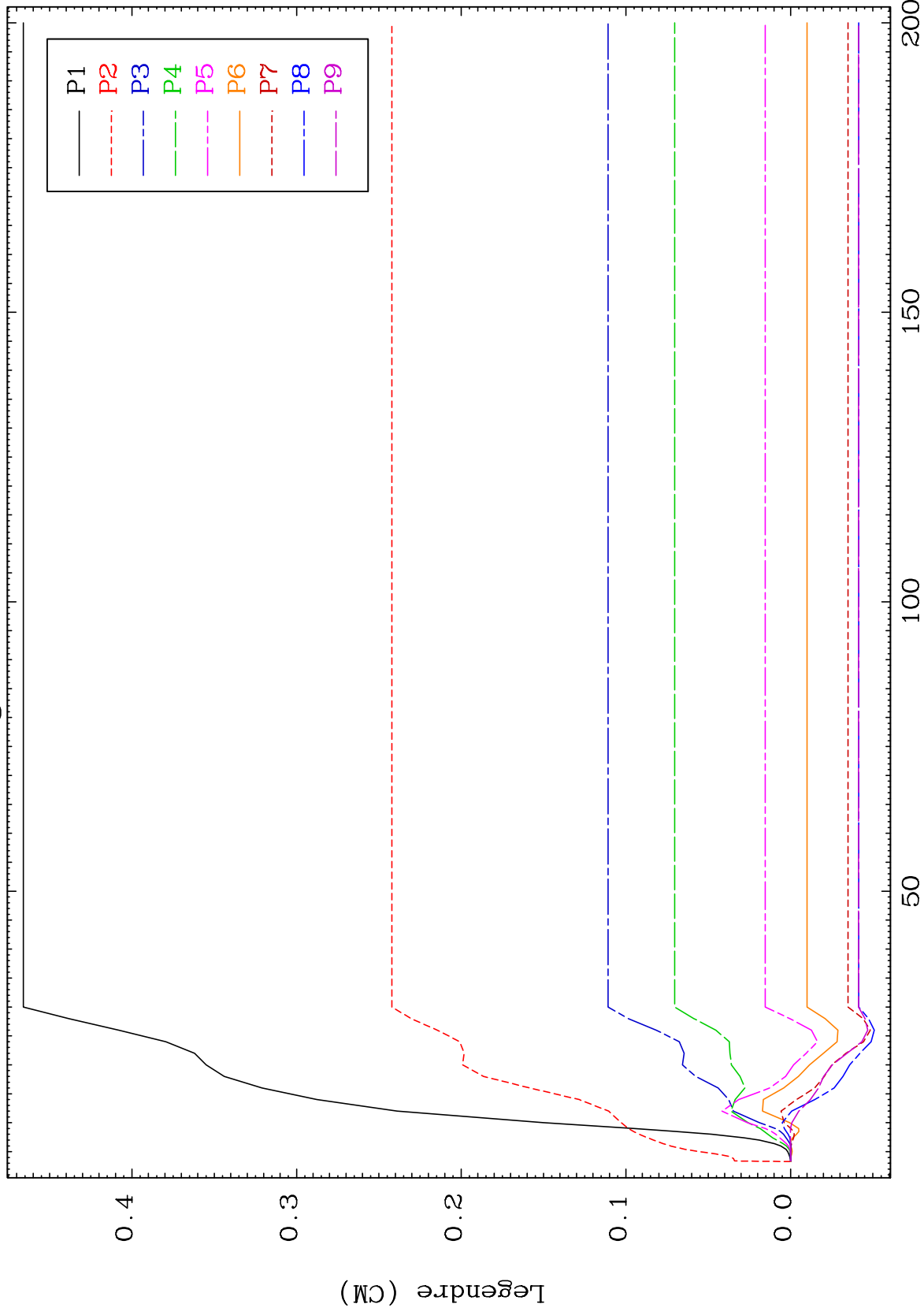
63



MAT 3925

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

39-Y -89



64

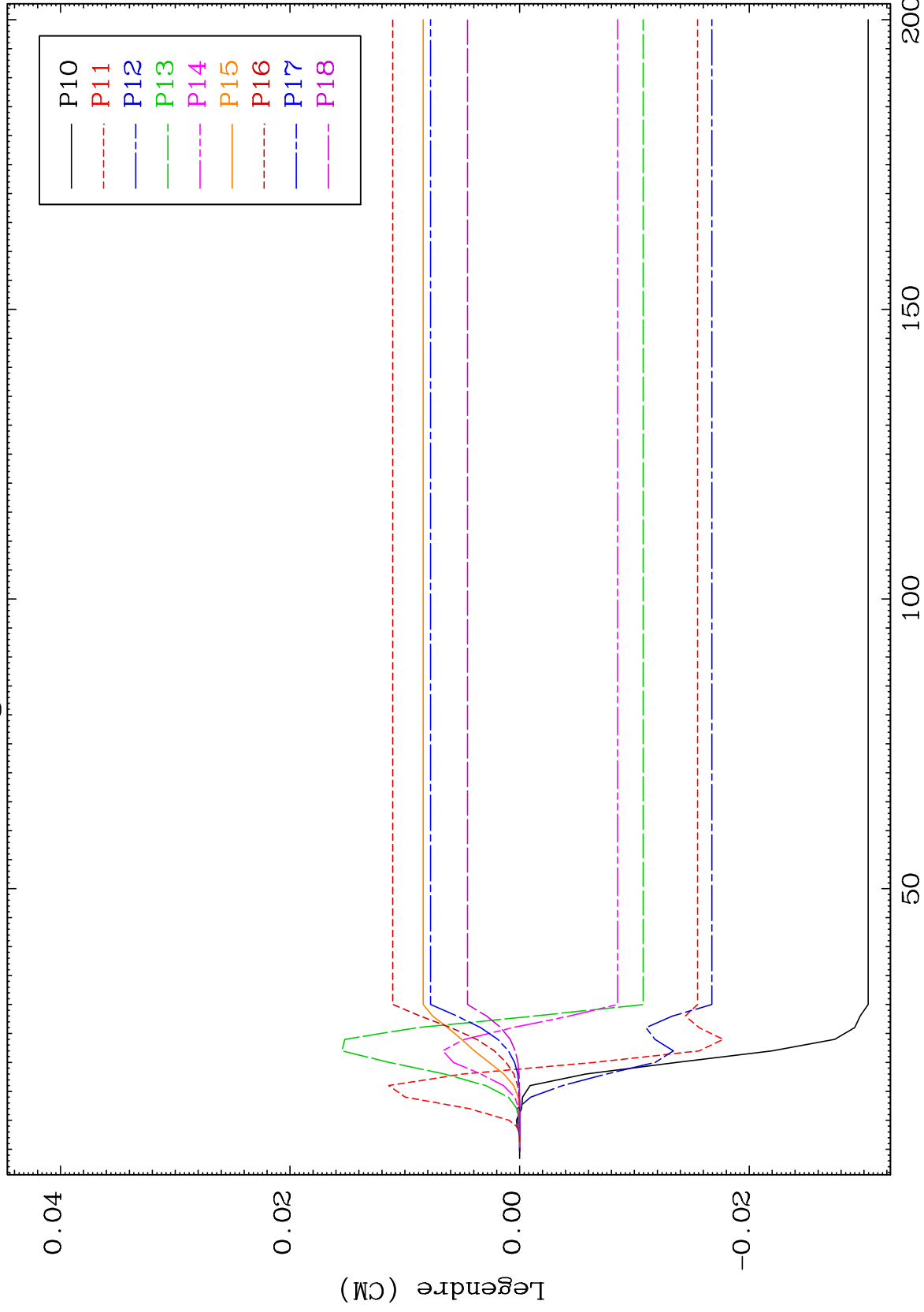
Incident Energy (MeV)

39-Y -89

MAT 3925

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

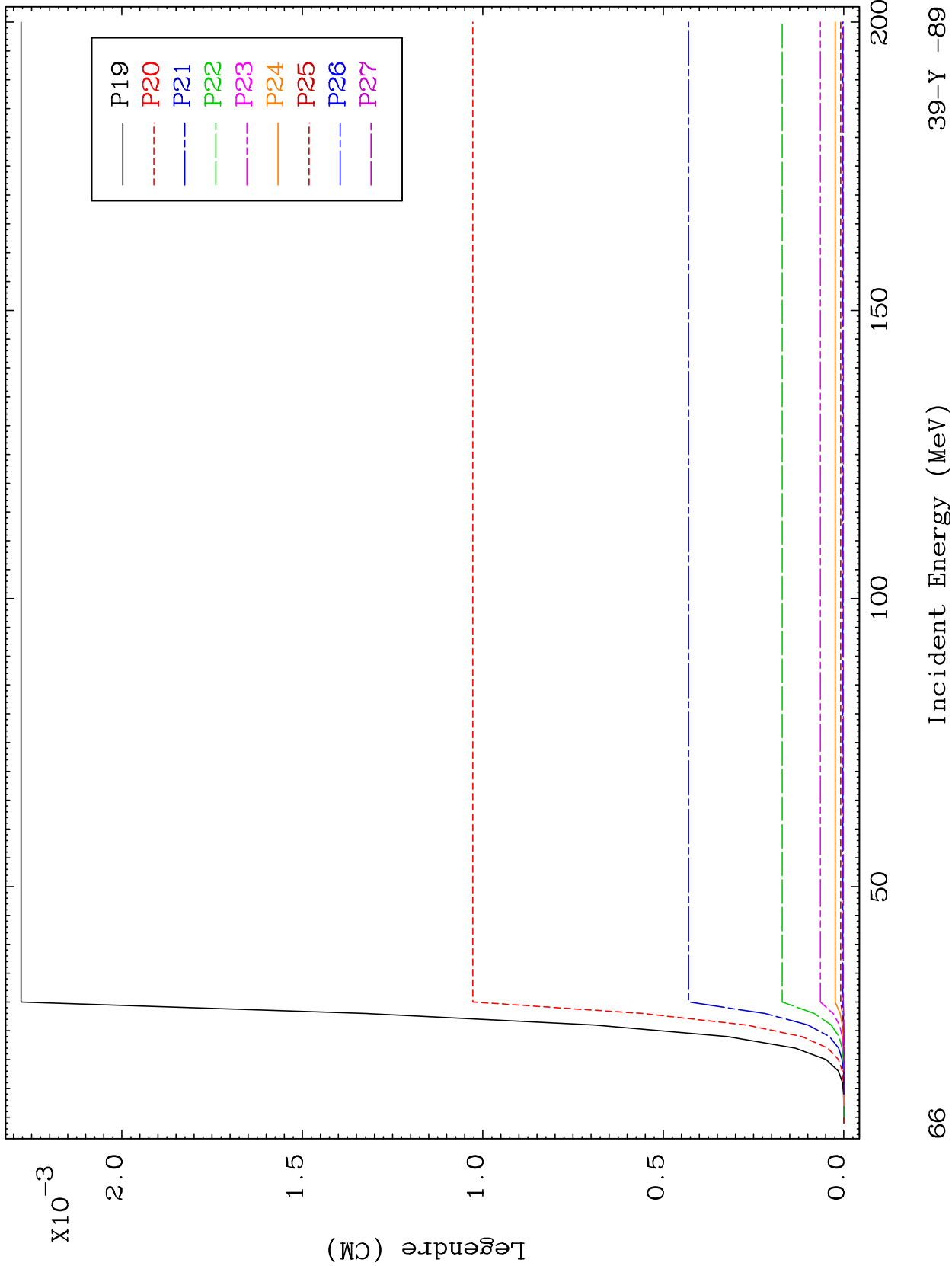
39-Y -89



65

Incident Energy (MeV)

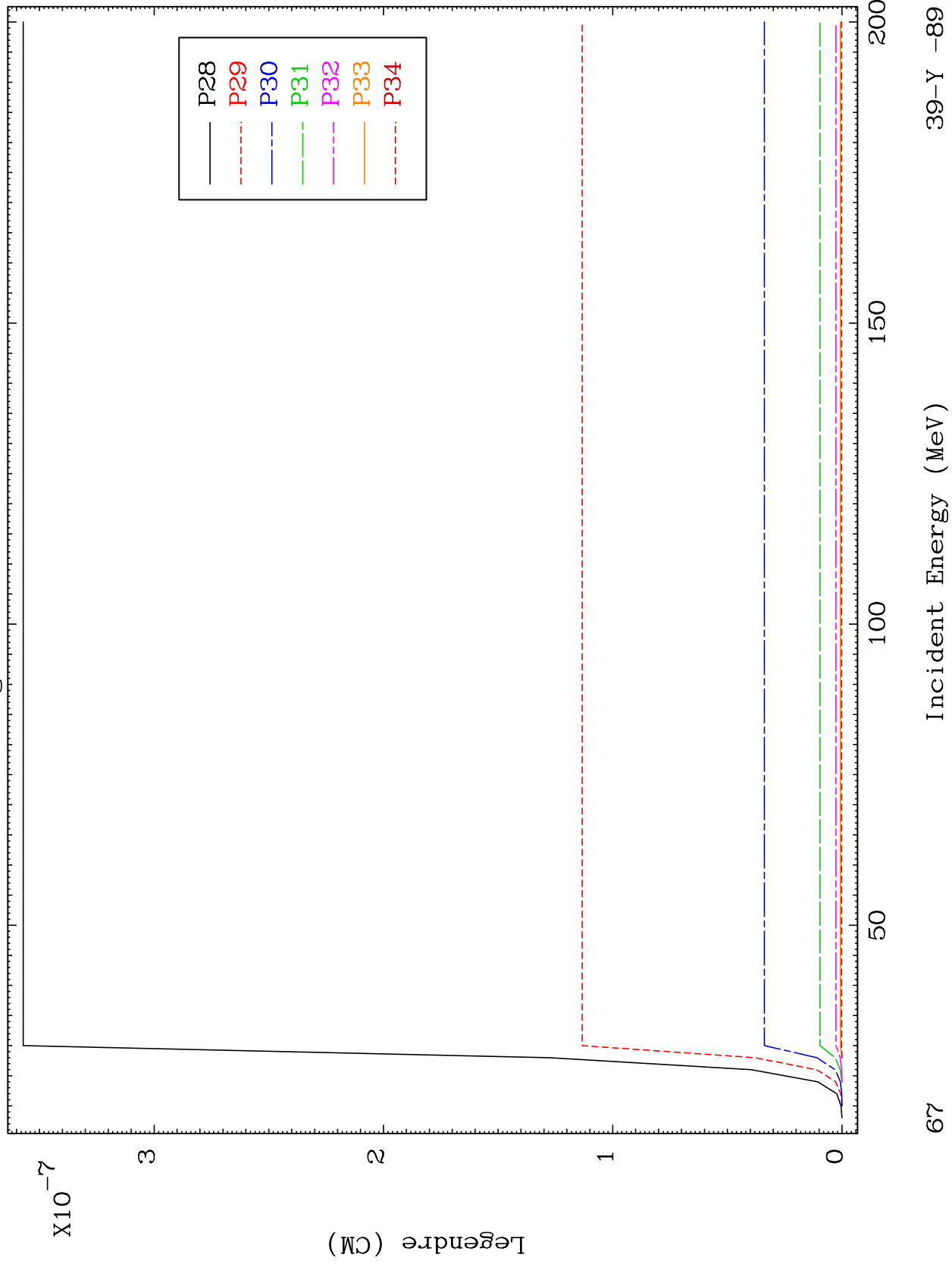
39-Y -89



MAT 3925

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

39-Y -89



67

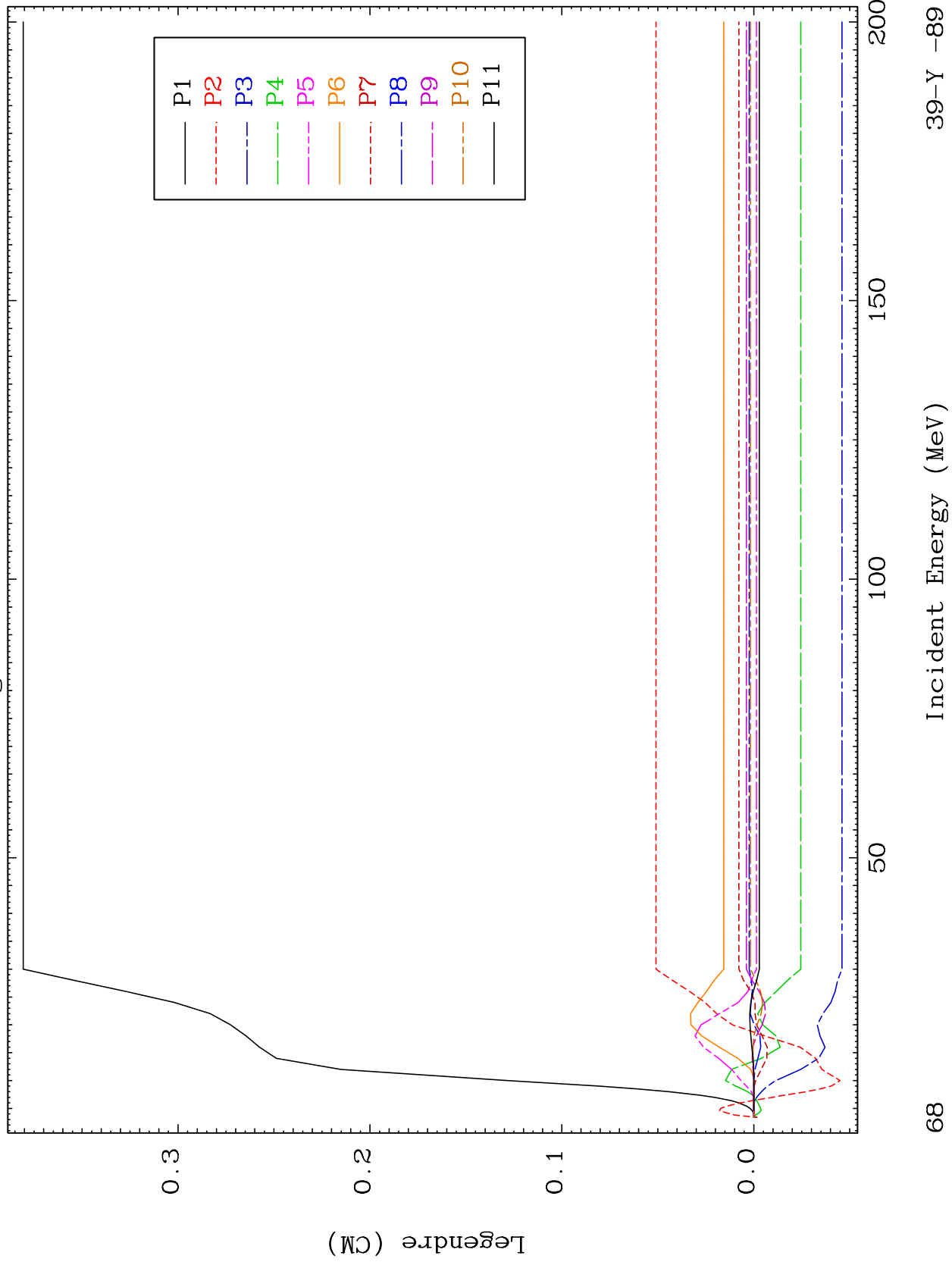
Incident Energy (MeV)

39-Y -89

MAT 3925

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

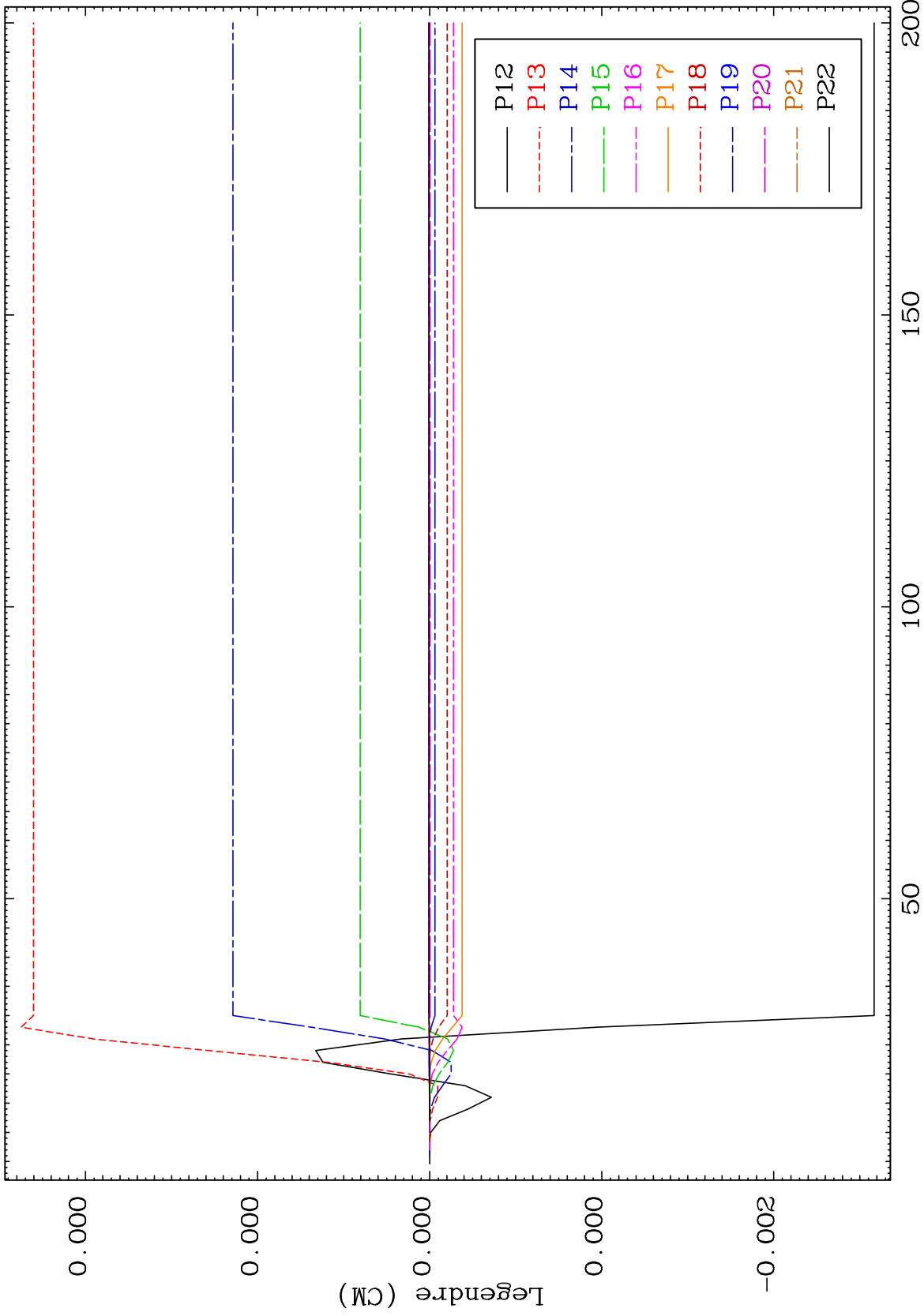
39-Y -89



68

Incident Energy (MeV)

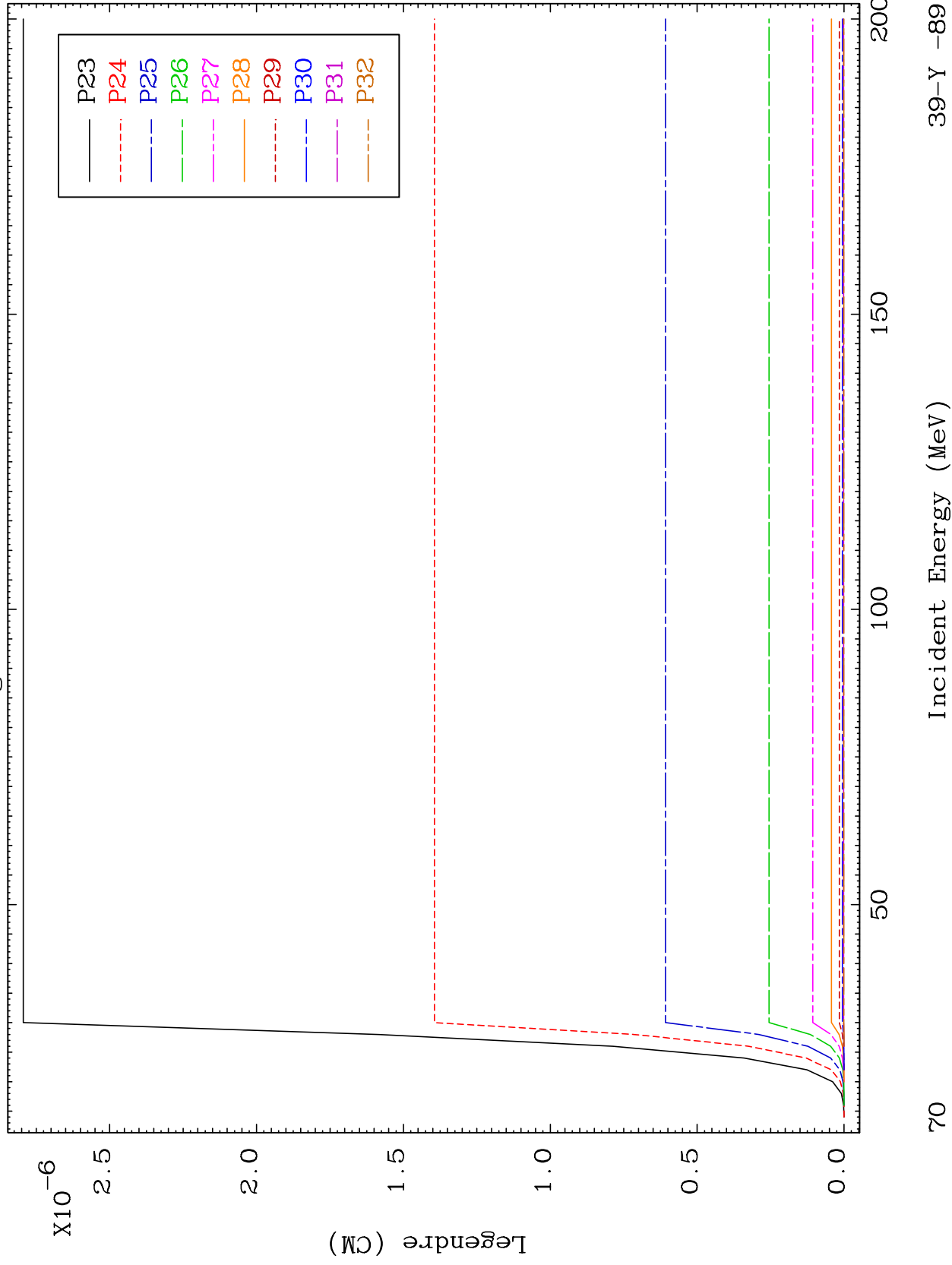
39-Y -89



MAT 3925

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

39-Y -89



70

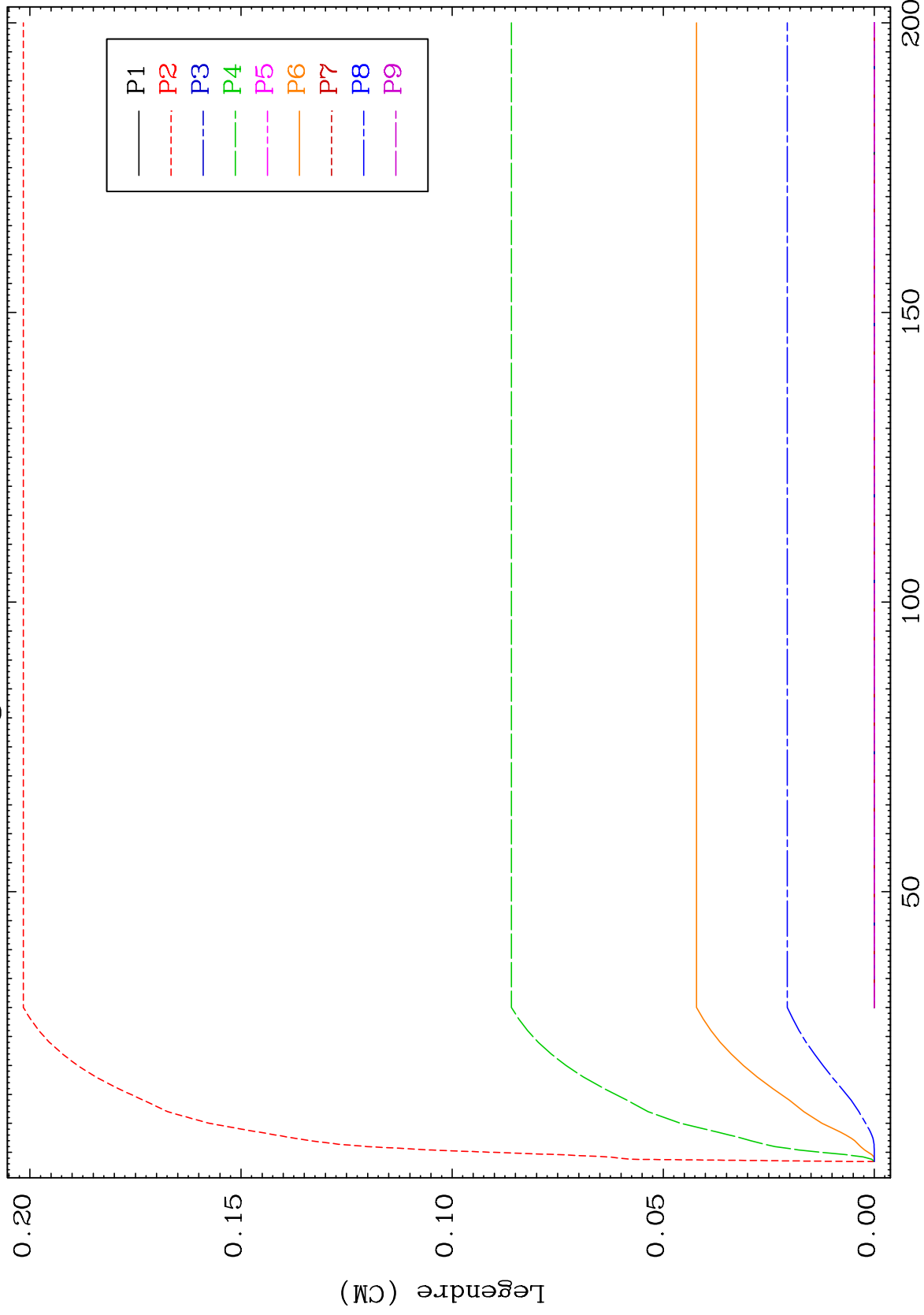
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89

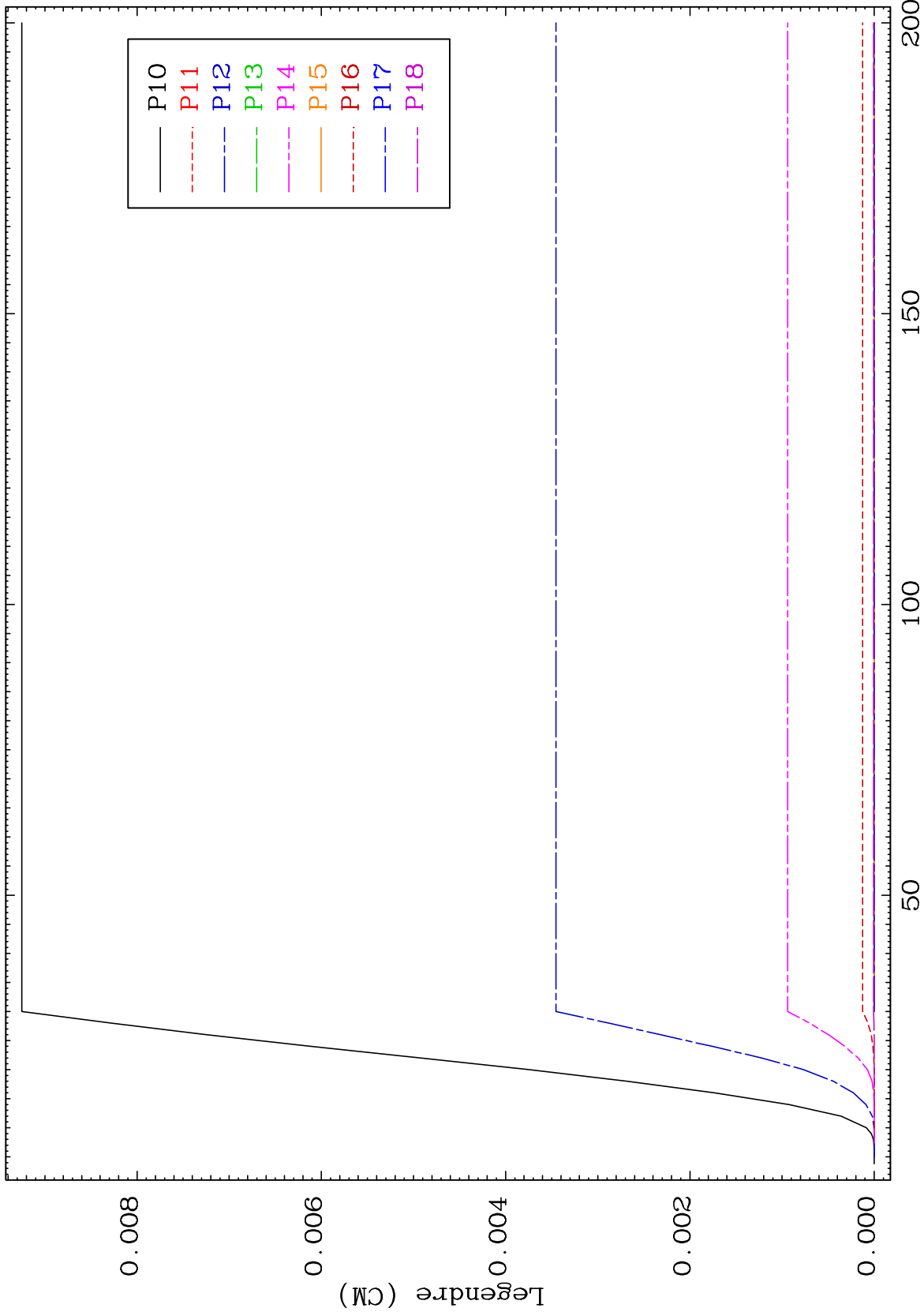


71

Incident Energy (MeV)

39-Y -89

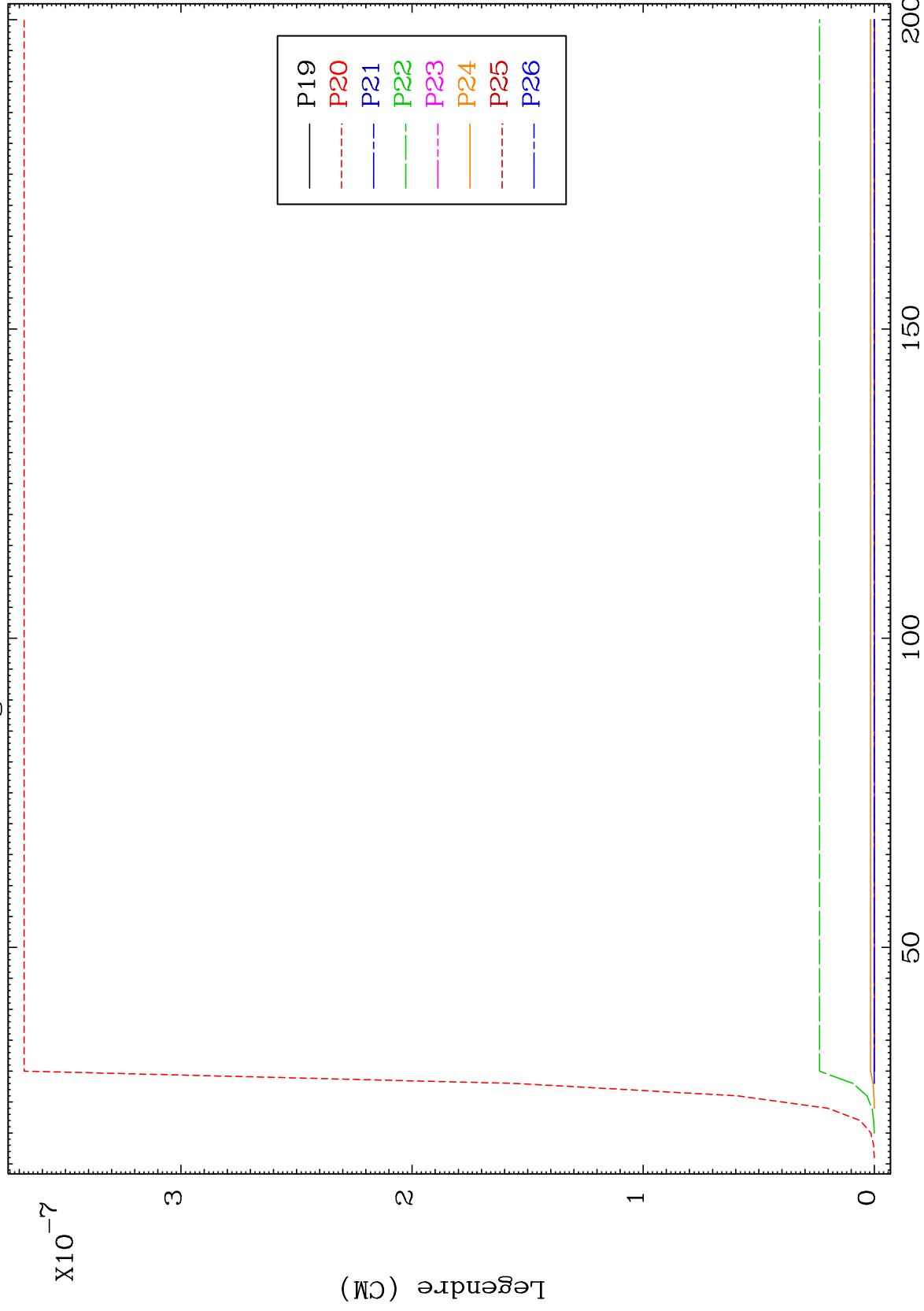




MAT 3925

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

39-Y -89



73

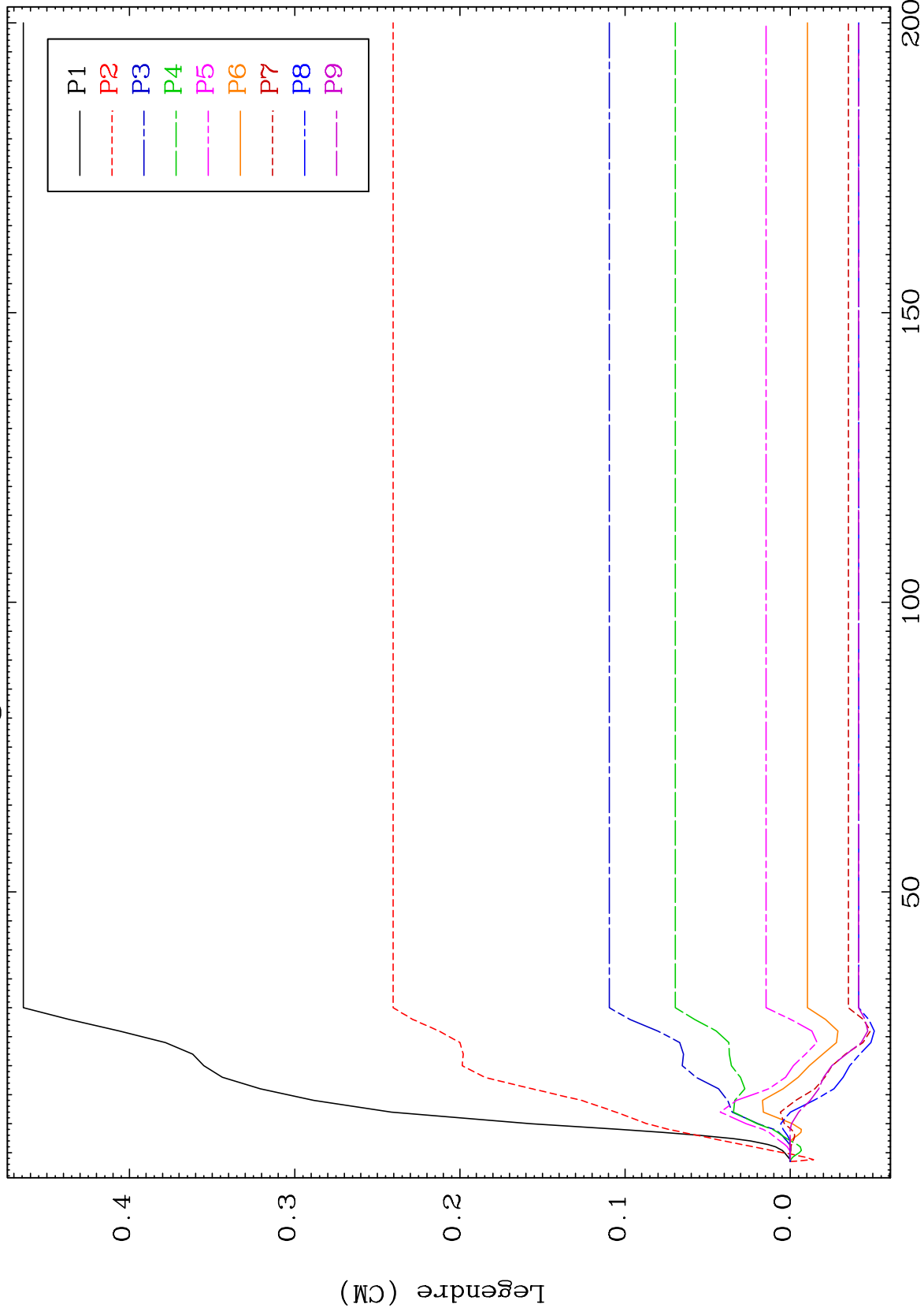
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



74

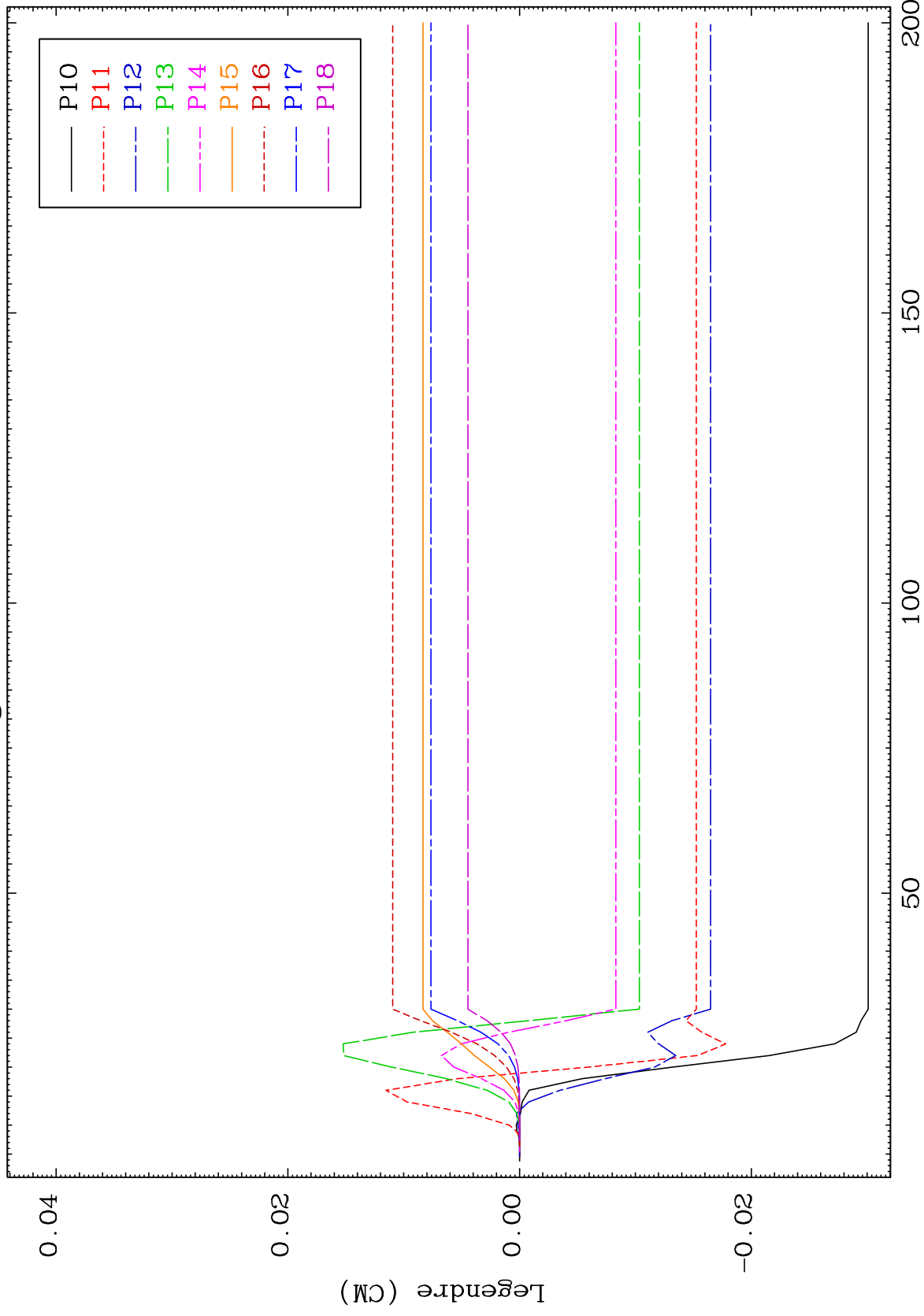
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



75

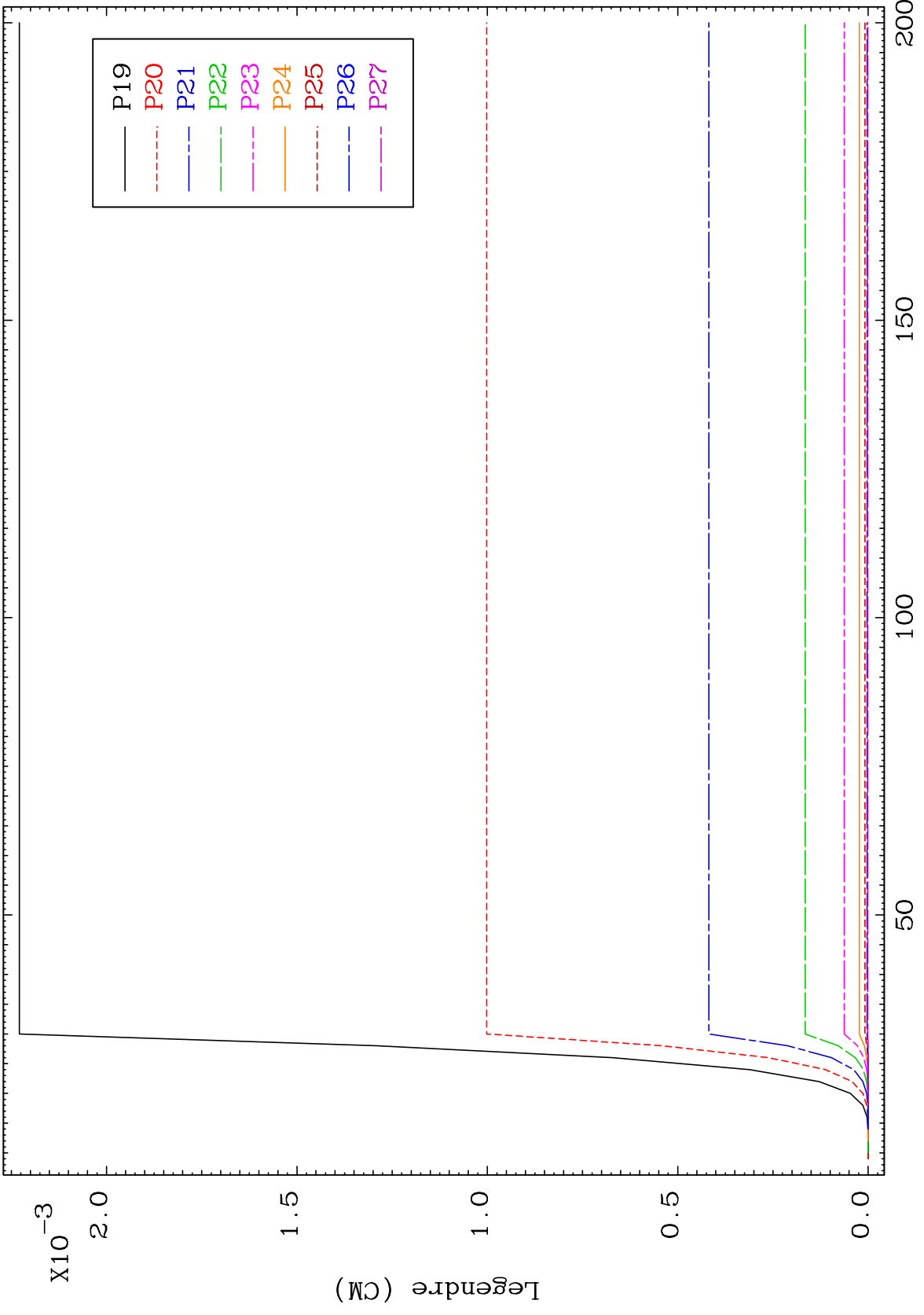
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



76

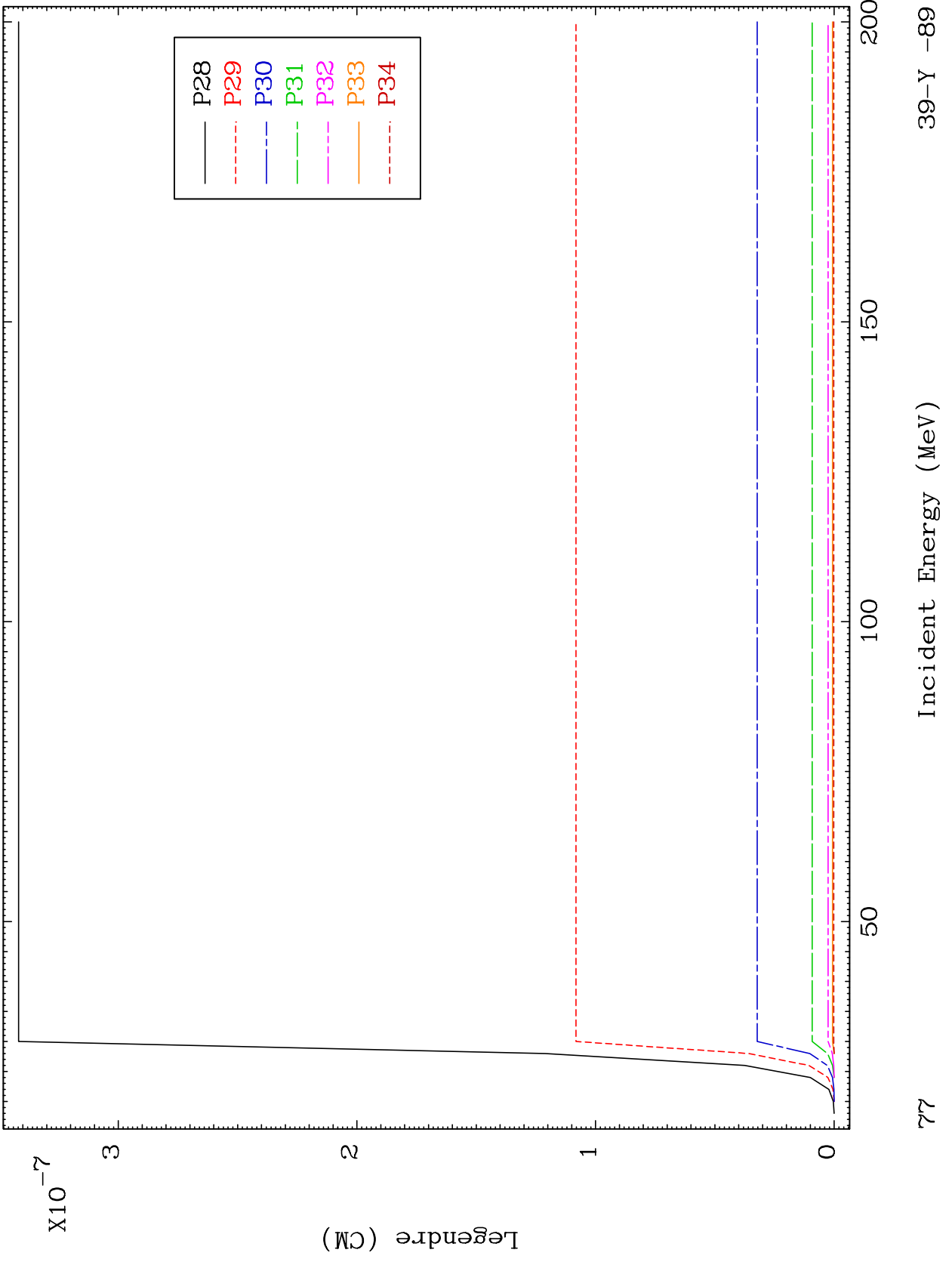
Incident Energy (MeV)

39-Y -89

MAT 3925

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

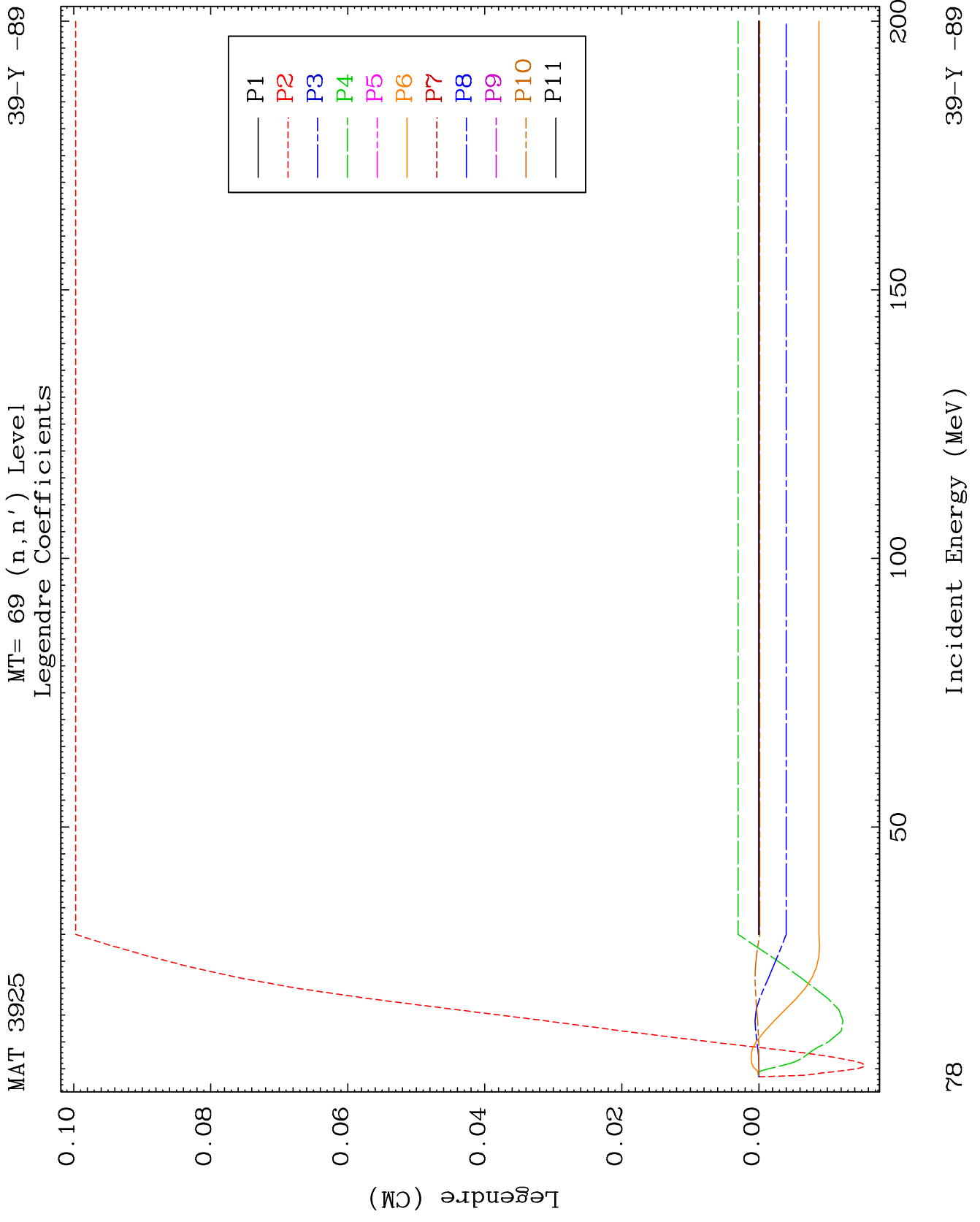
39-Y -89



77

Incident Energy (MeV)

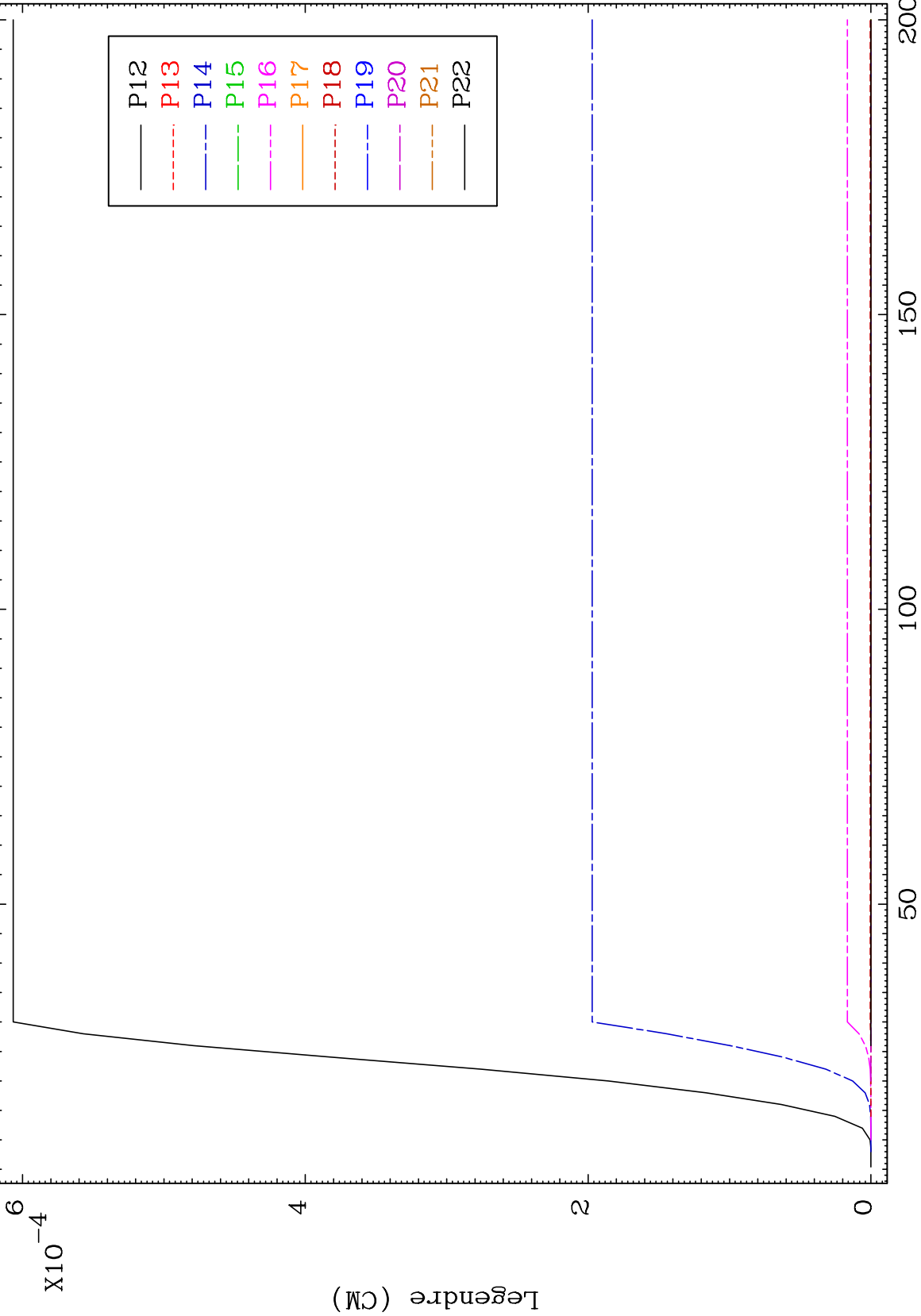
39-Y -89



MAT 3925

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

39-Y -89

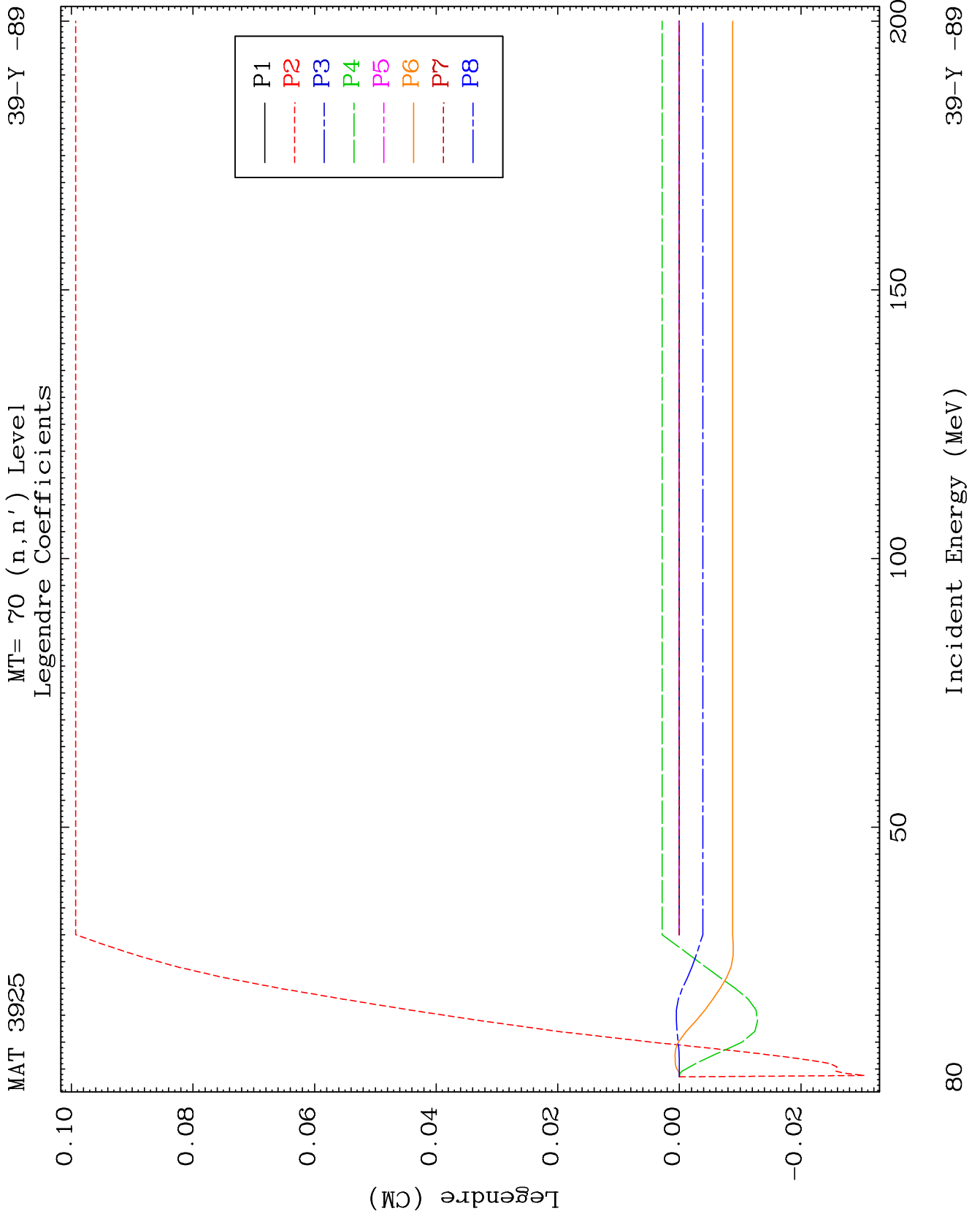


79

Incident Energy (MeV)

39-Y -89

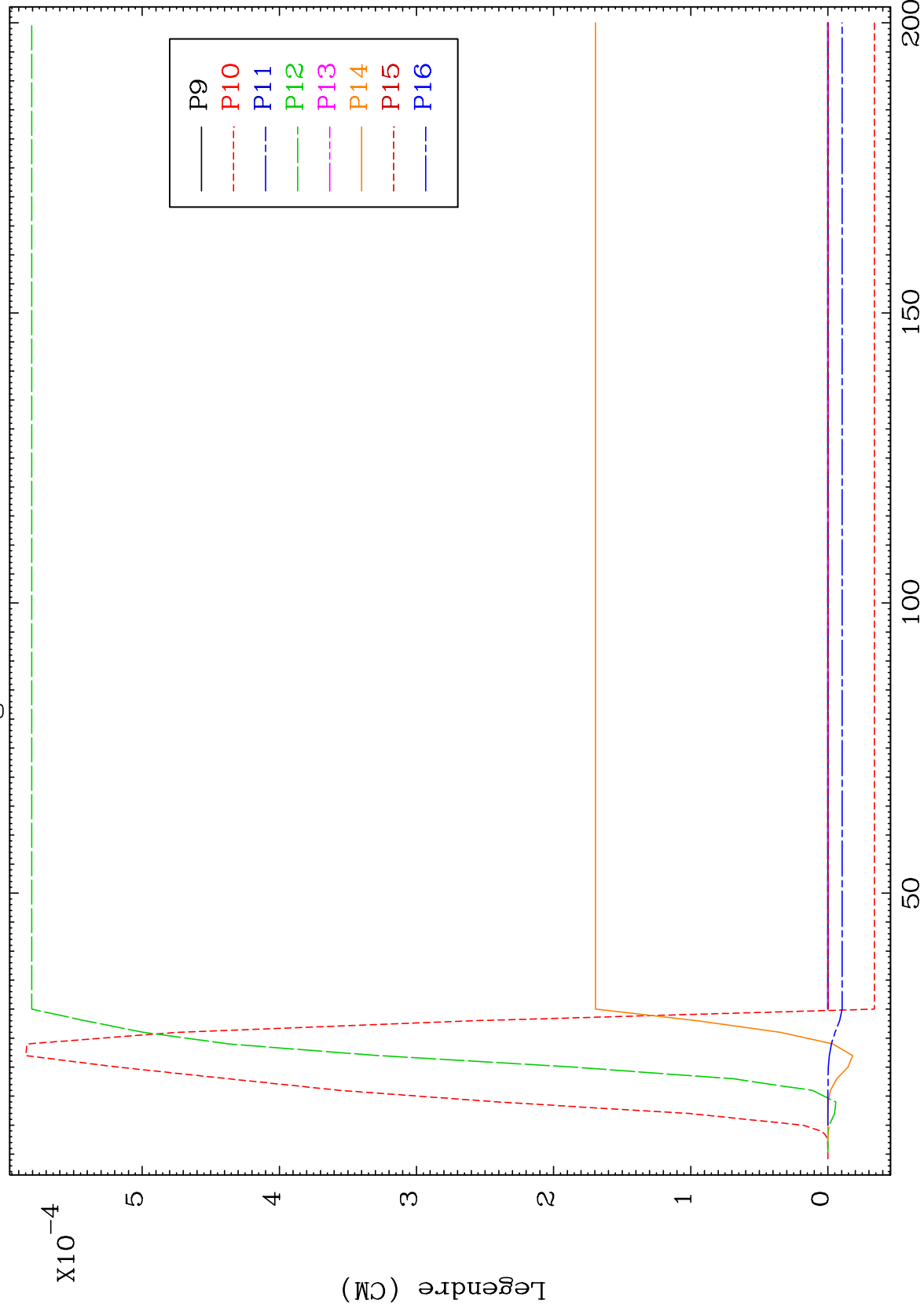




MAT 3925

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

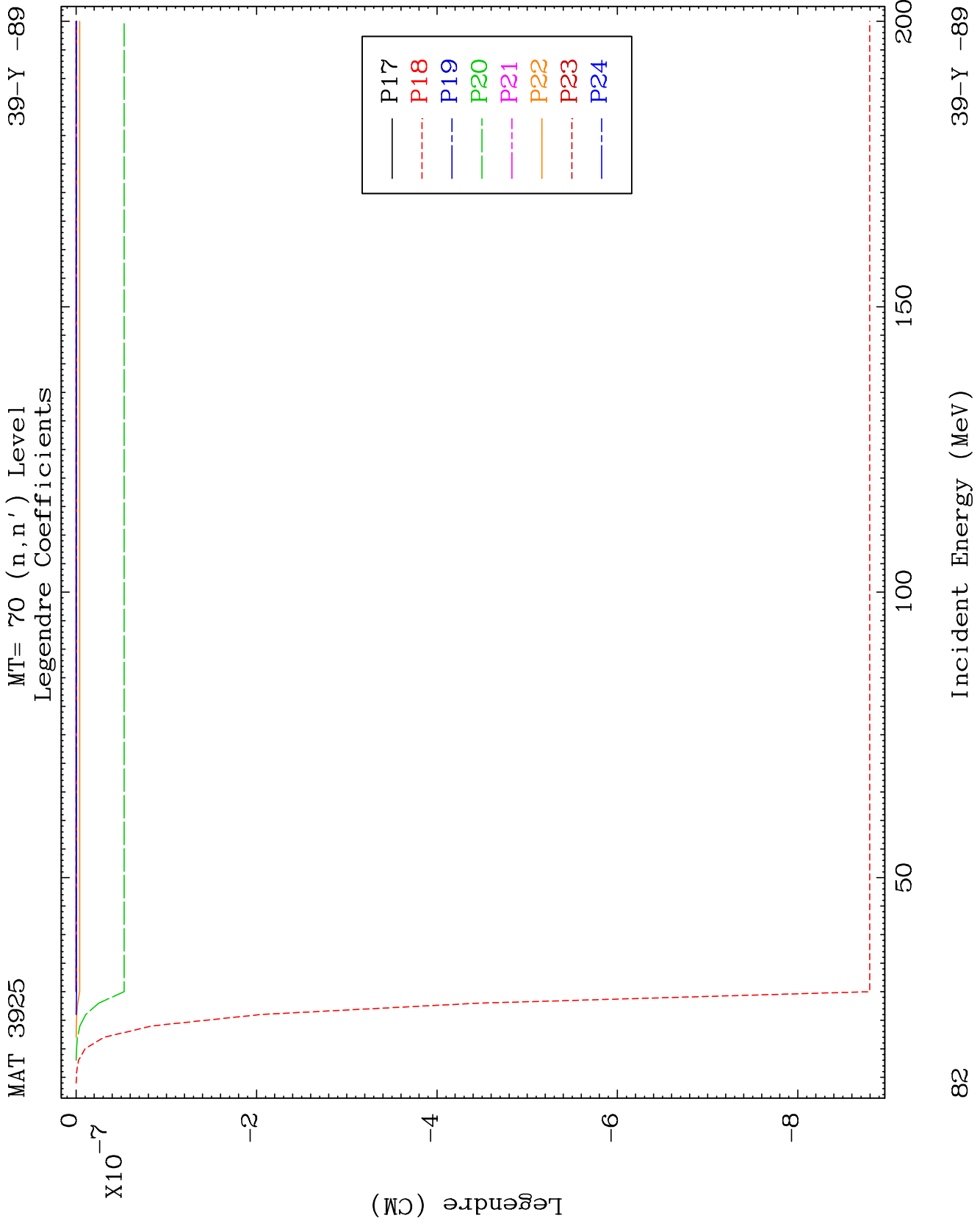
39-Y -89

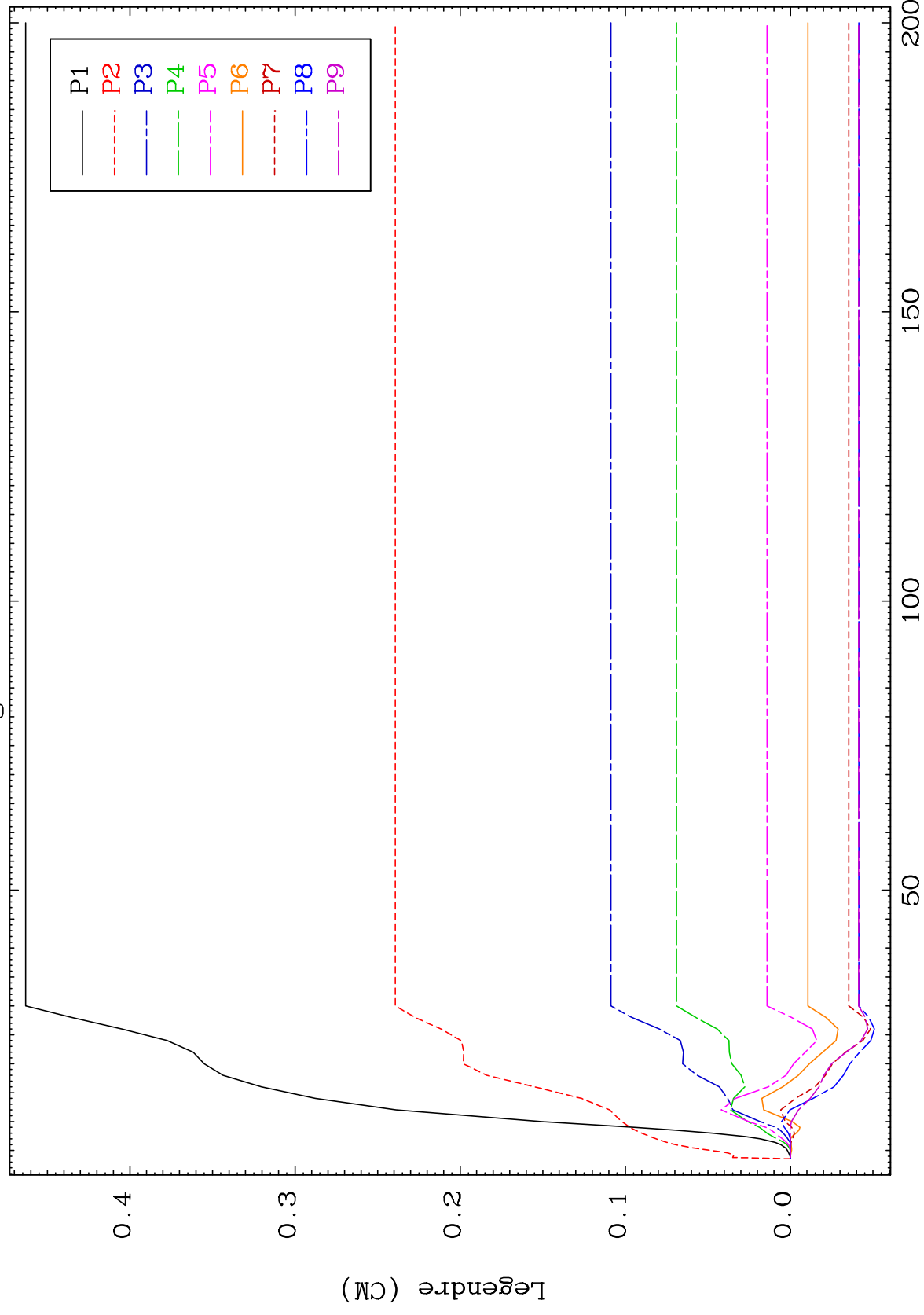


81

Incident Energy (MeV)

39-Y -89

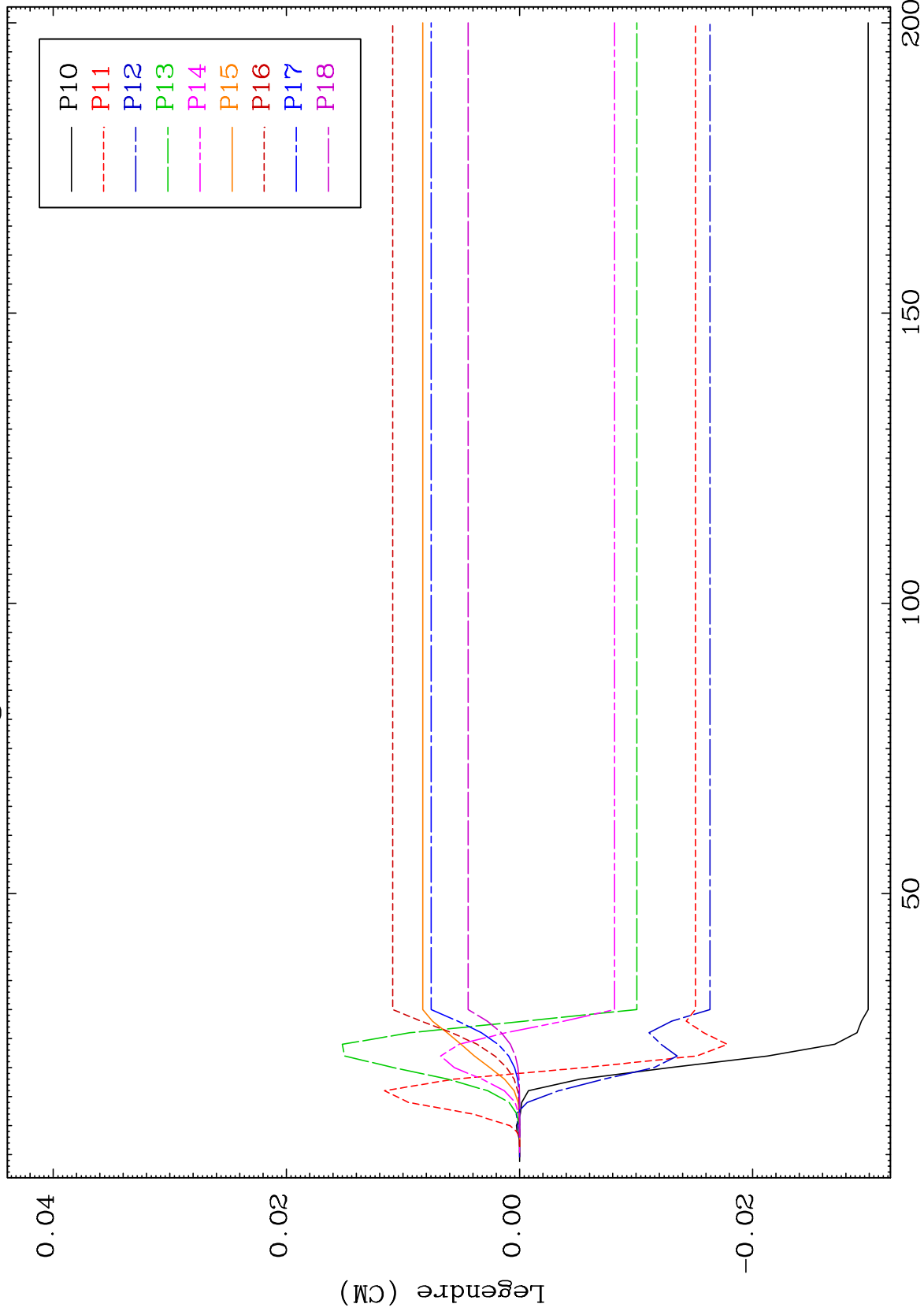




MAT 3925

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

39-Y -89



84

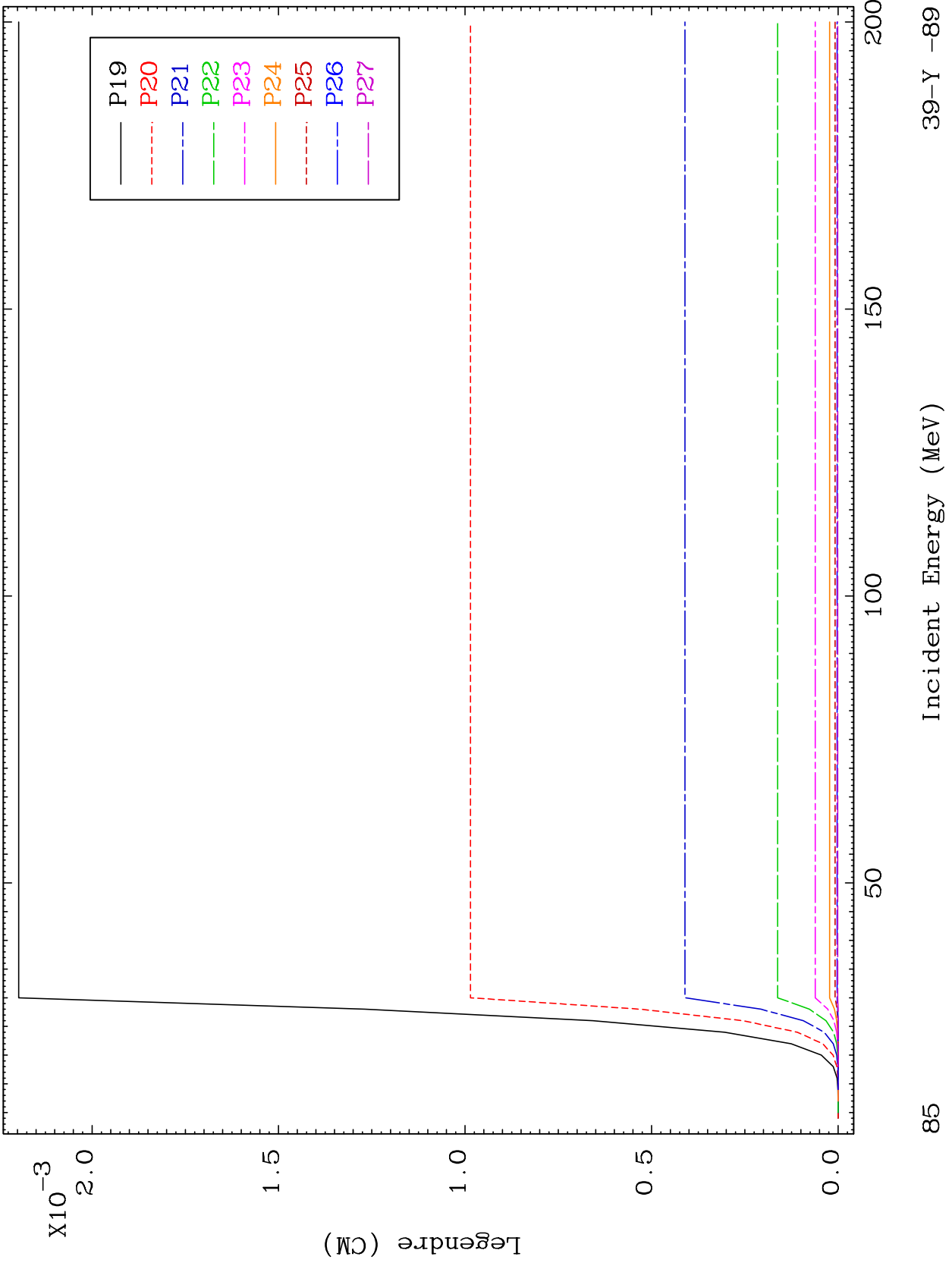
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



85

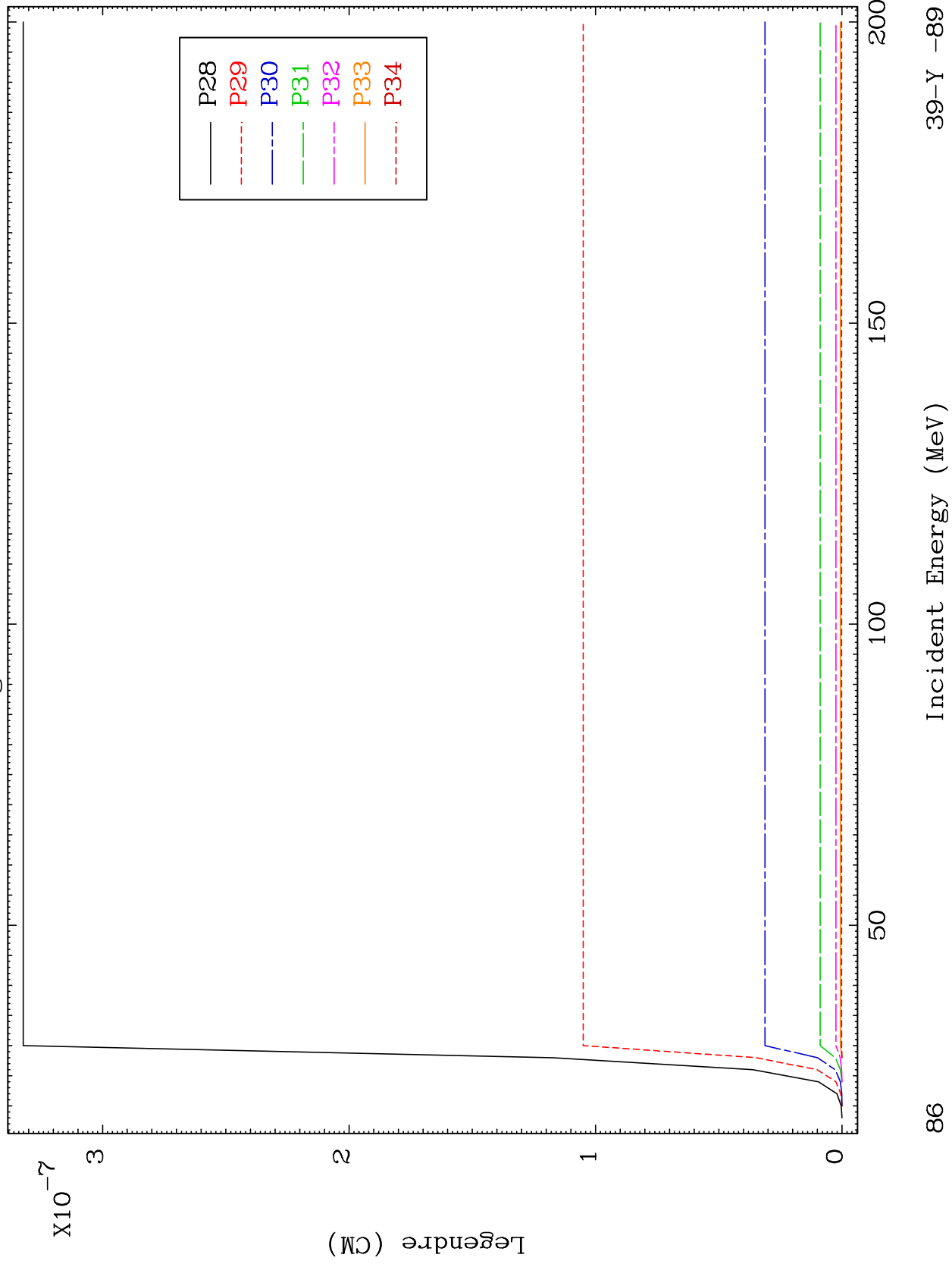
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



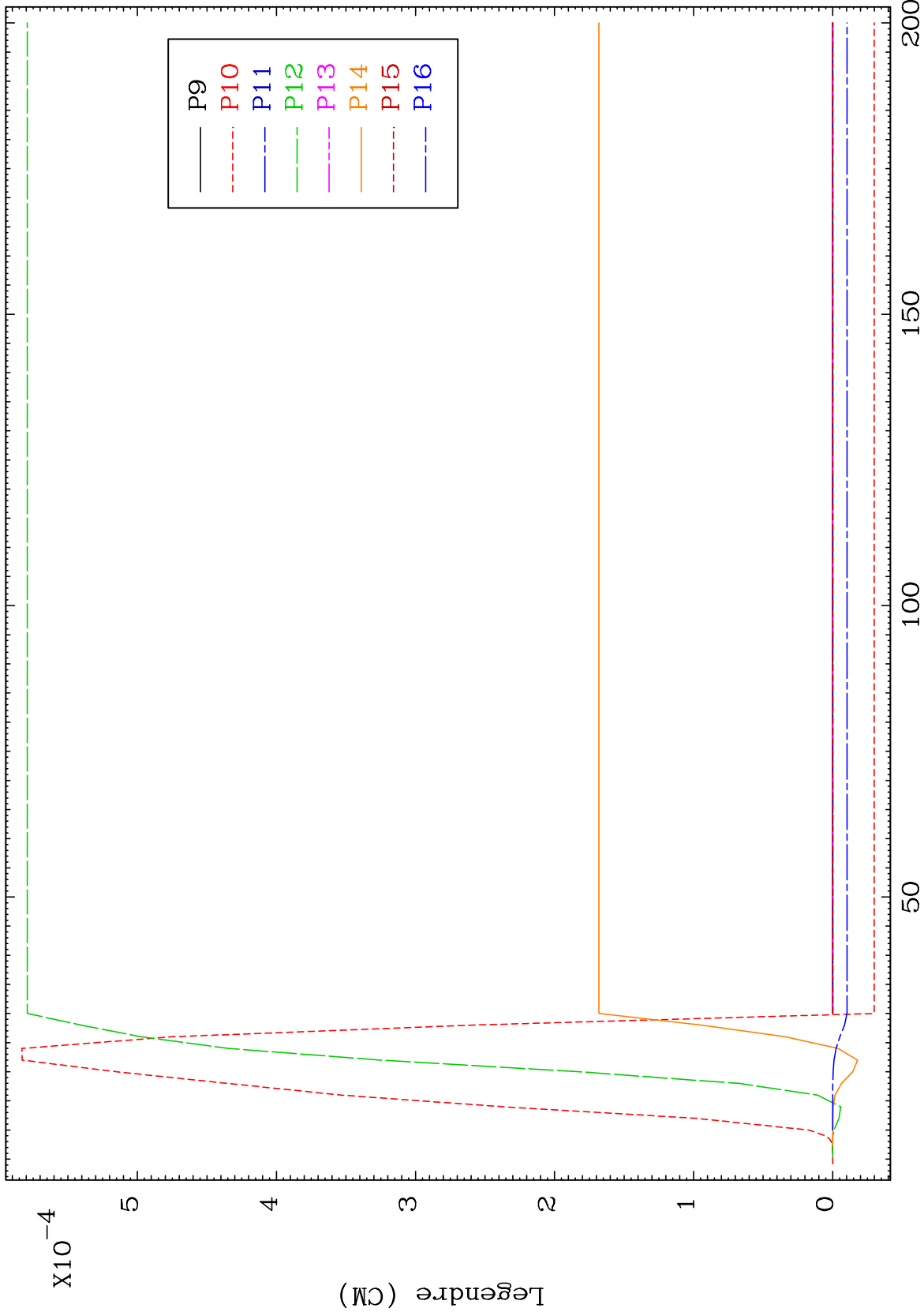




MAT 3925

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

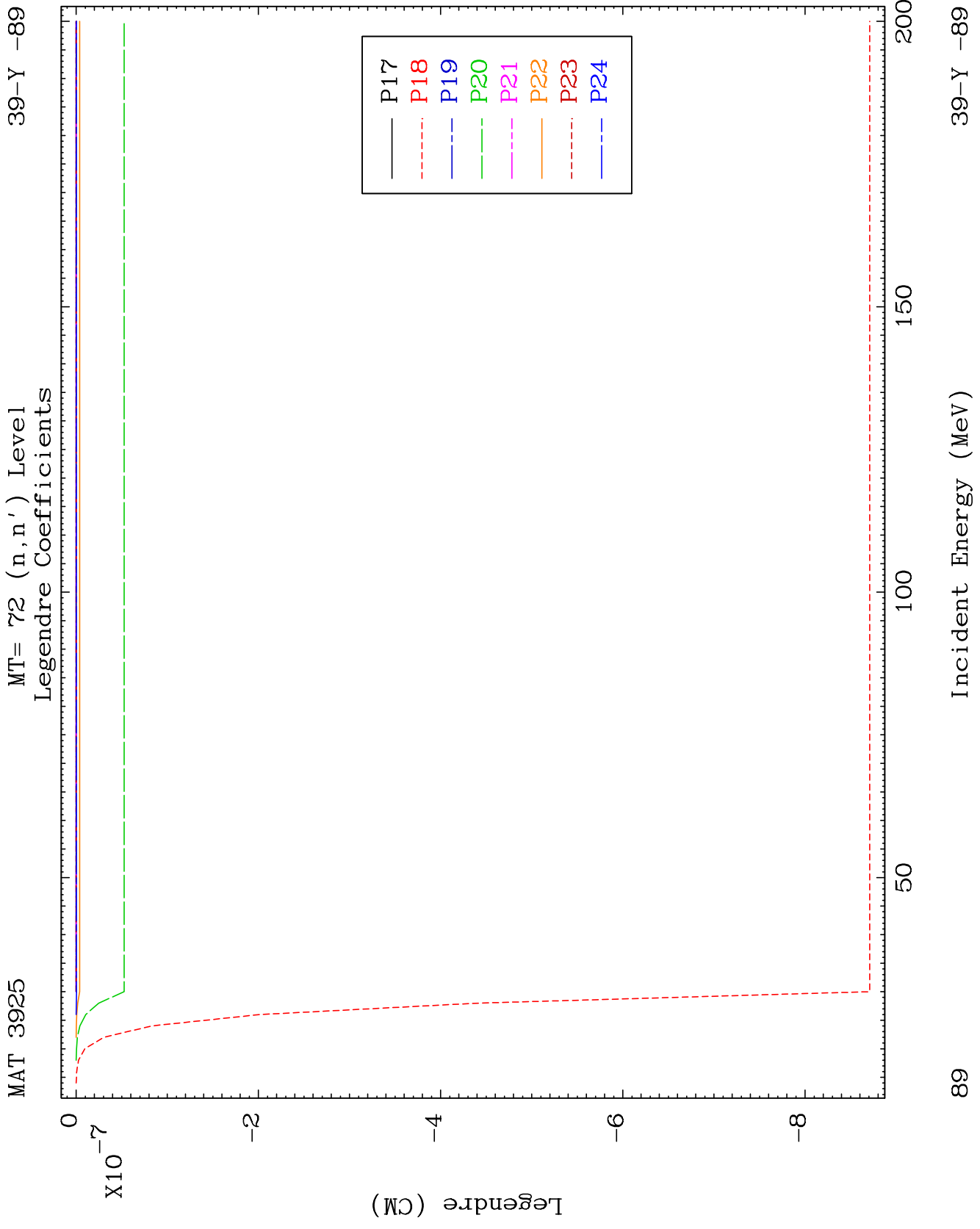
39-Y -89

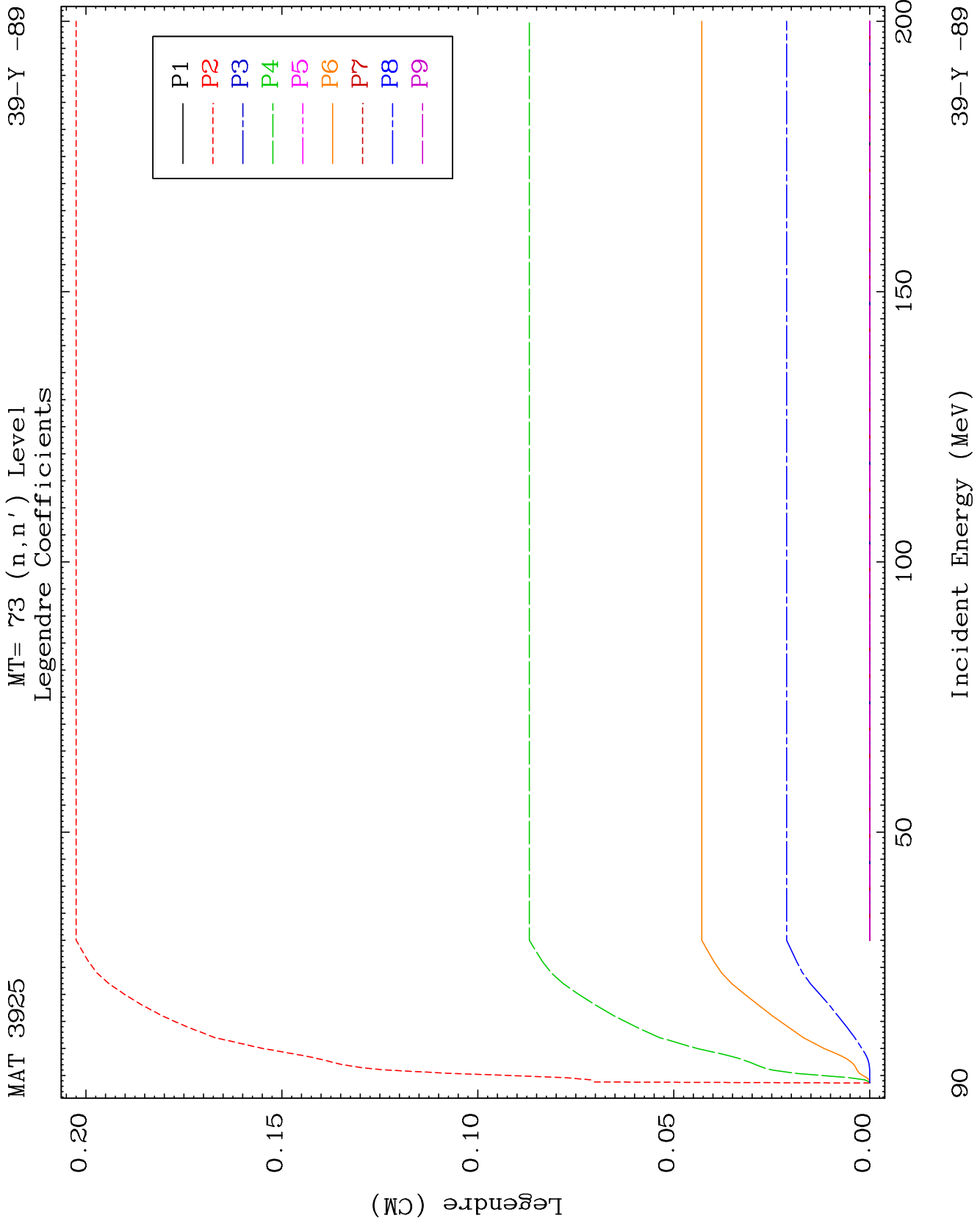


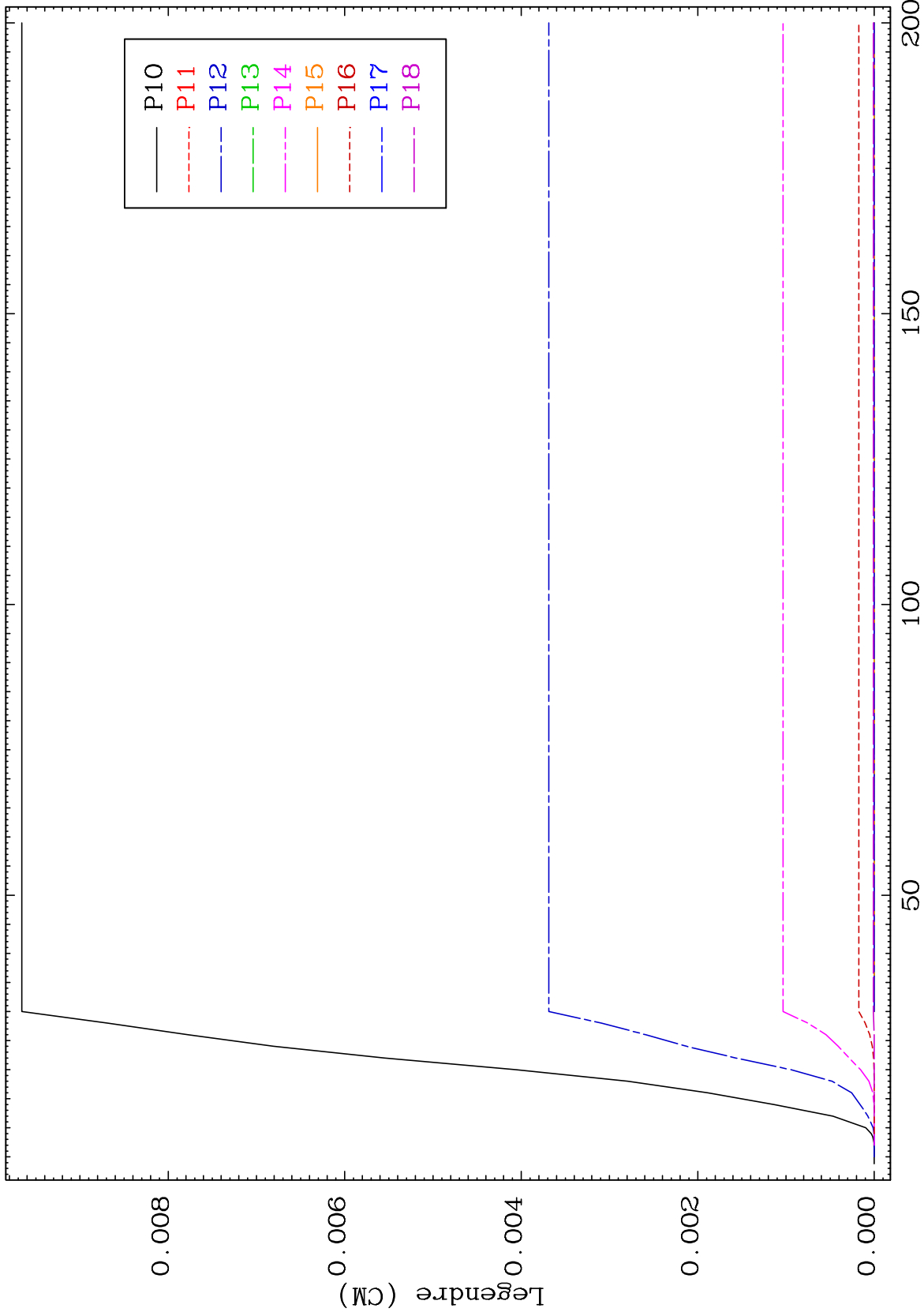
88

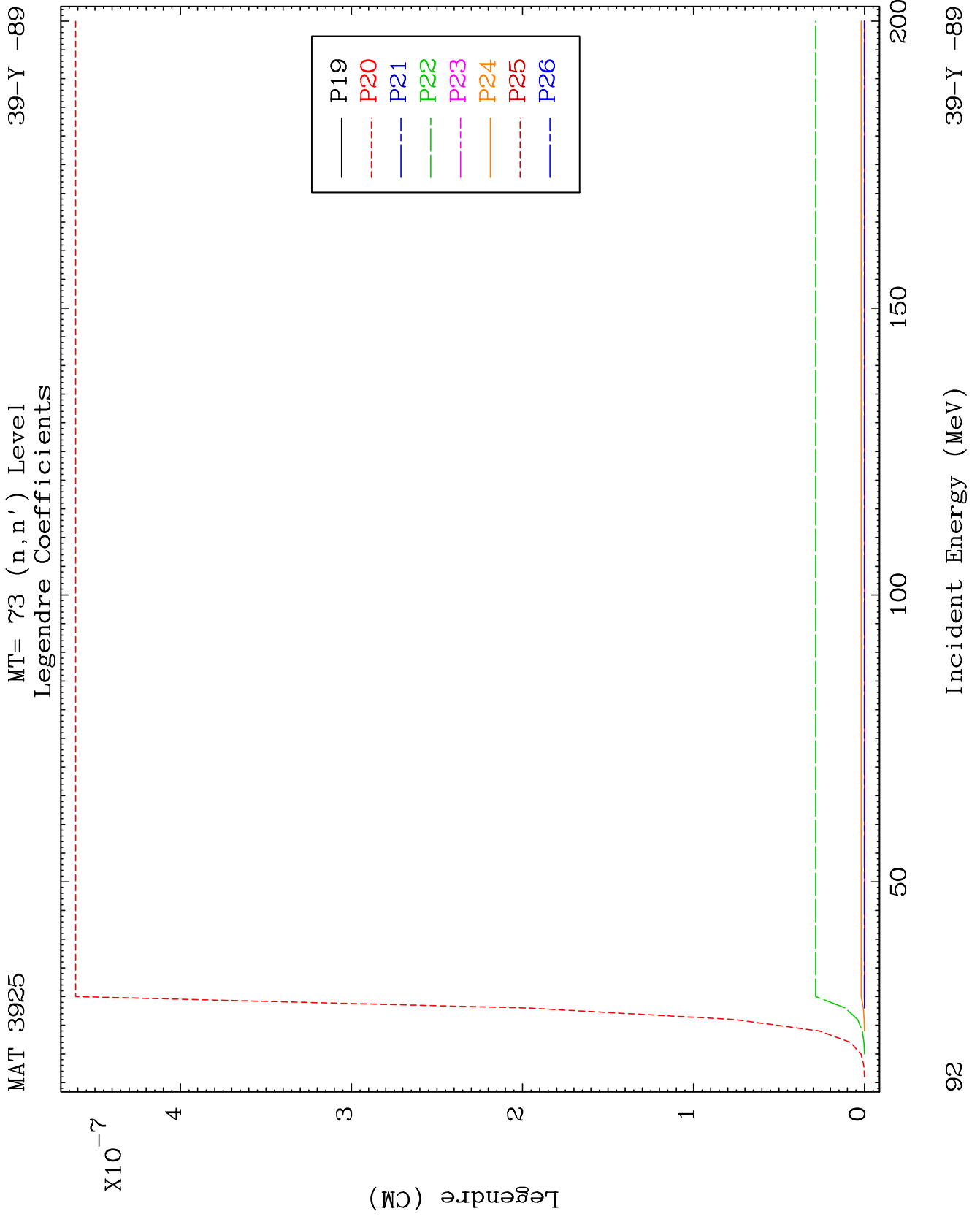
Incident Energy (MeV)

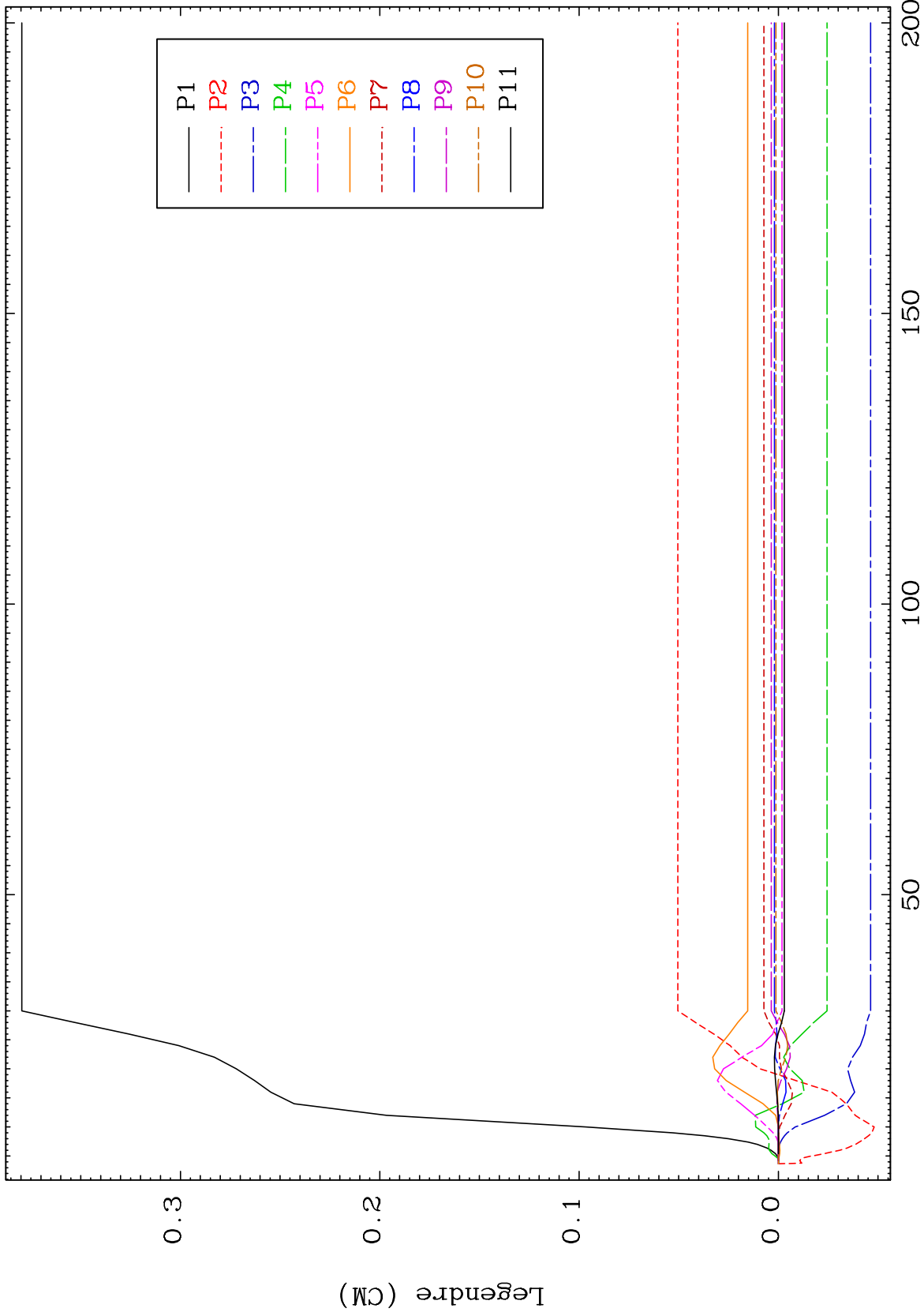
39-Y -89







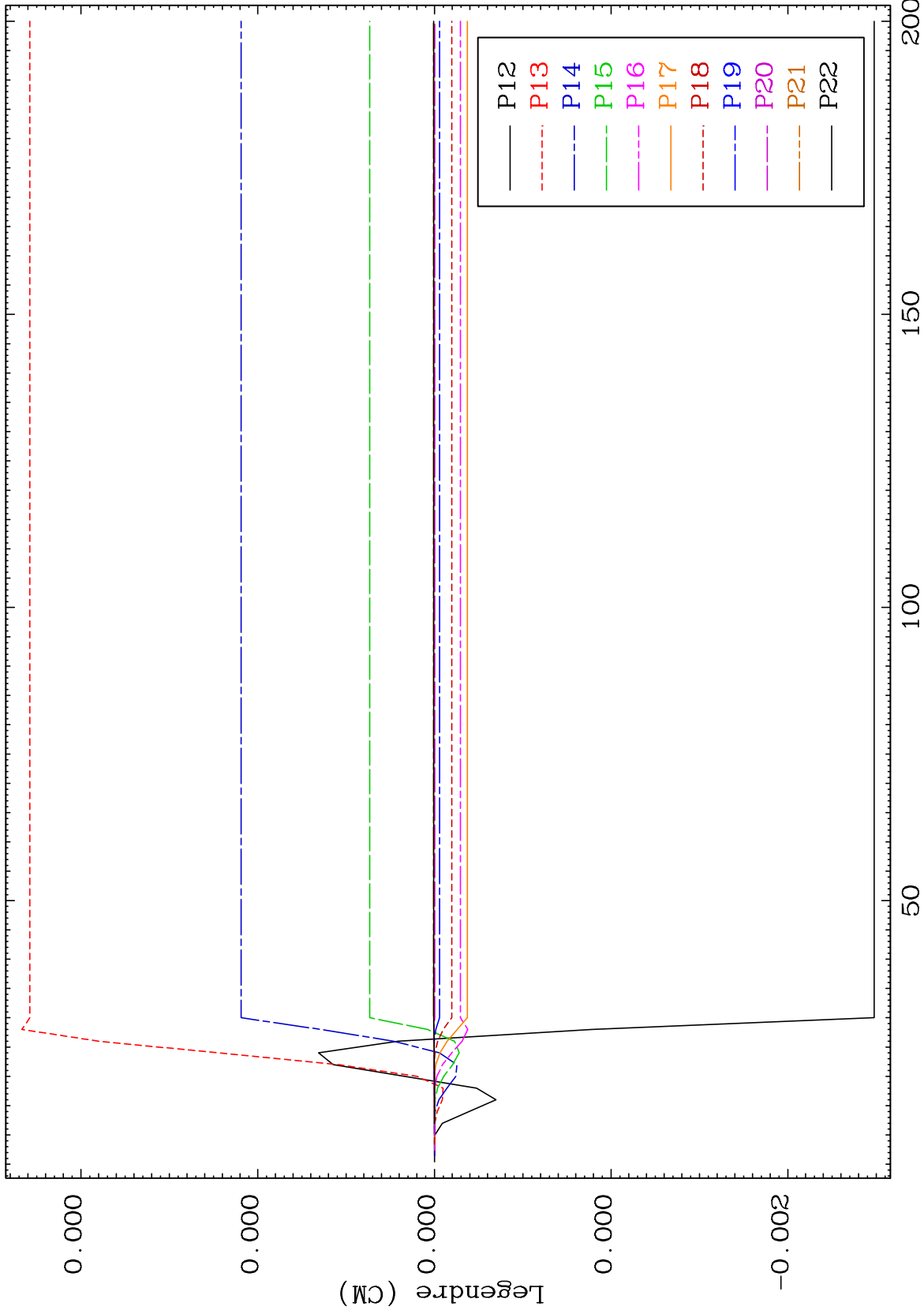




MAT 3925

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

39-Y -89



94

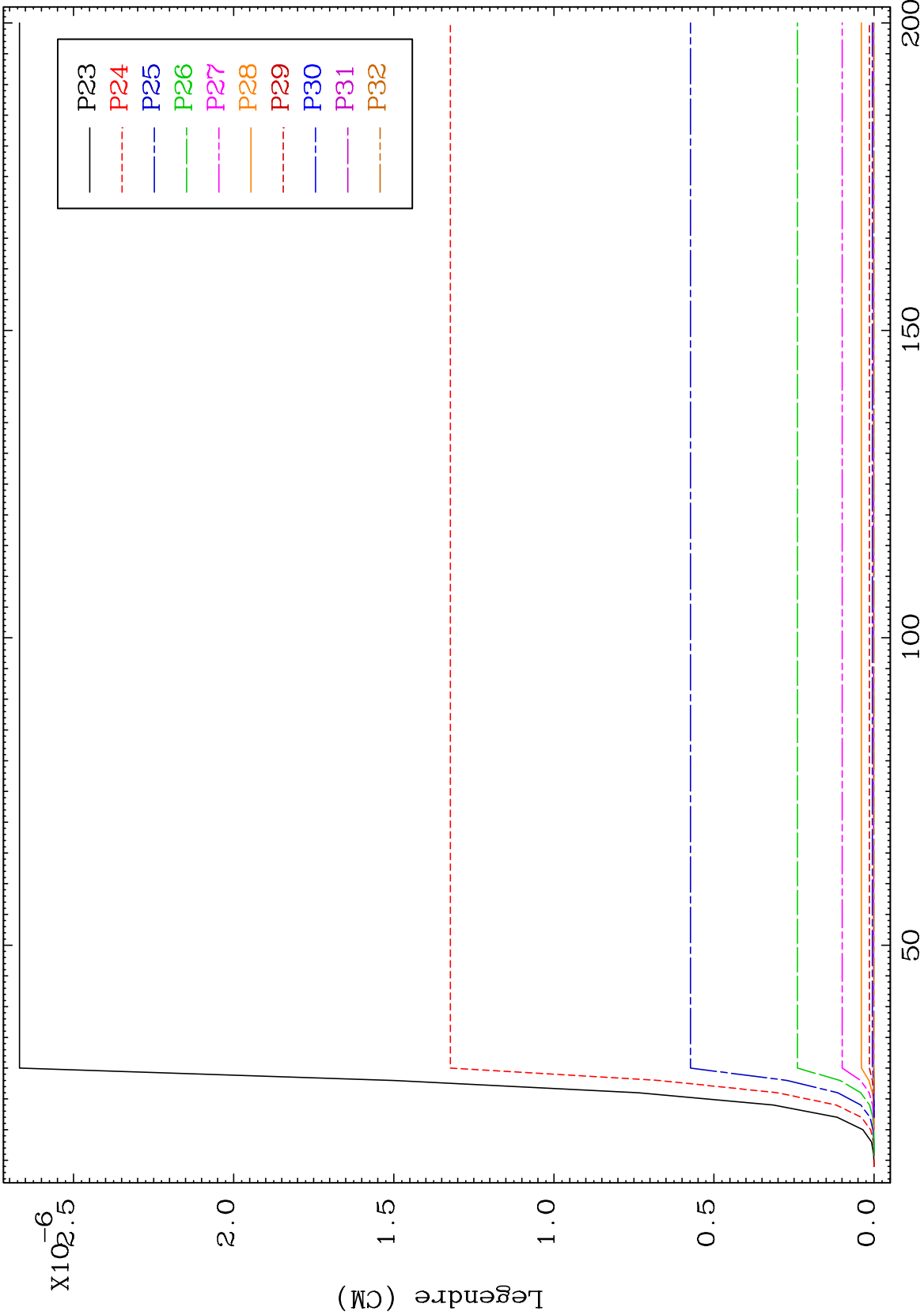
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89

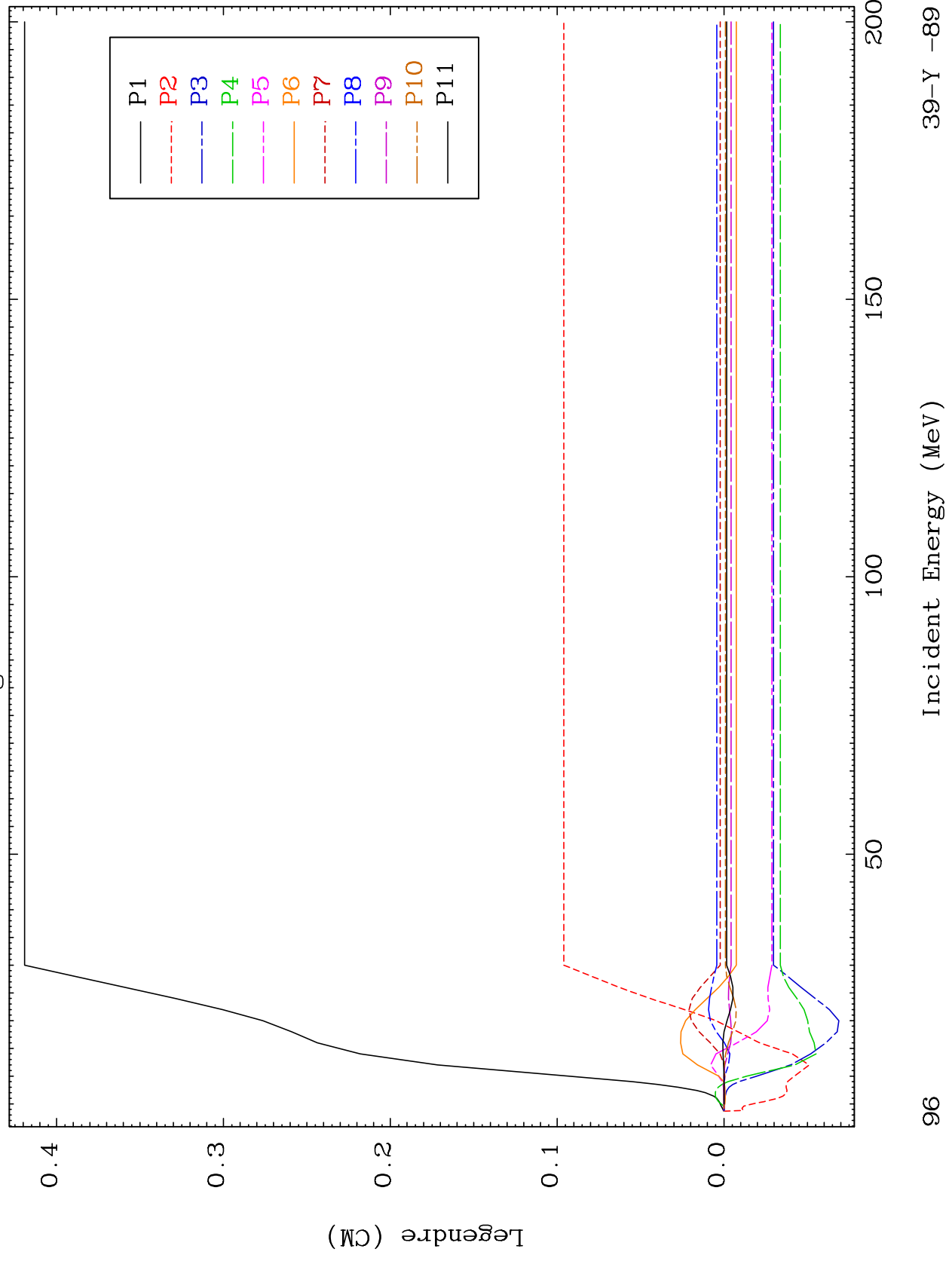


95

Incident Energy (MeV)

39-Y -89

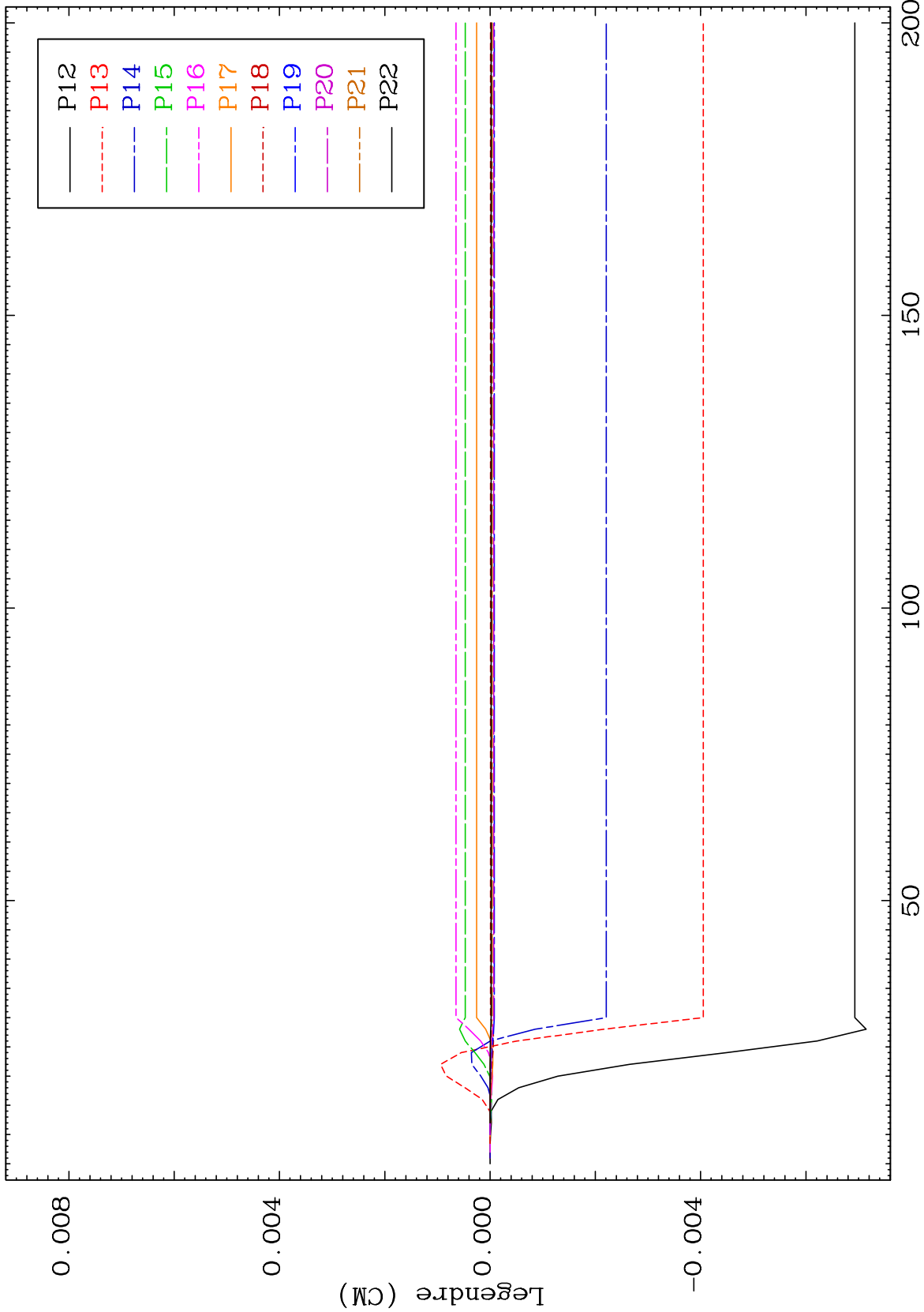




MAT 3925

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

39-Y -89

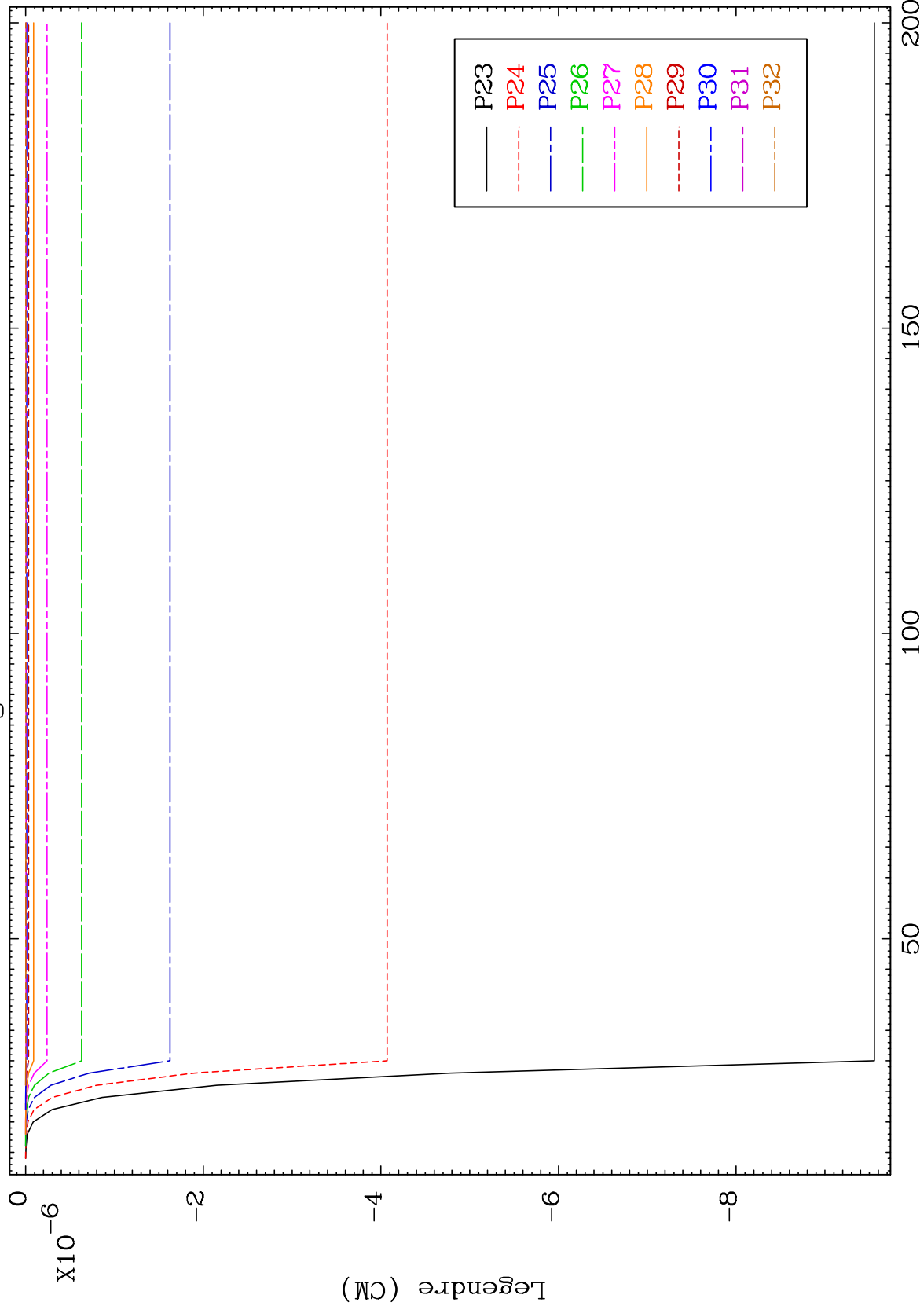


97

Incident Energy (MeV)

39-Y -89

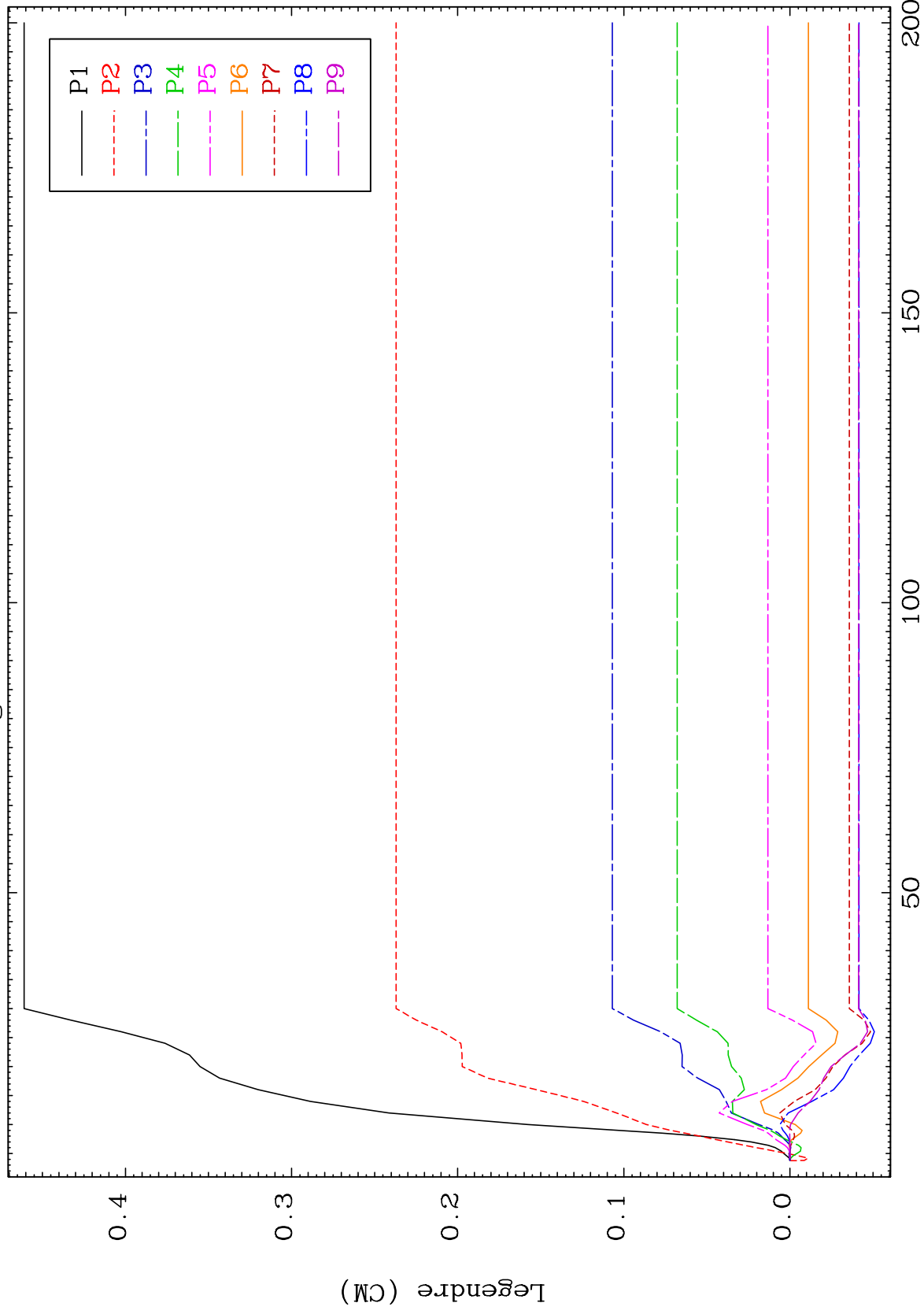
Legendre Coefficients



MAT 3925

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

39-Y -89



99

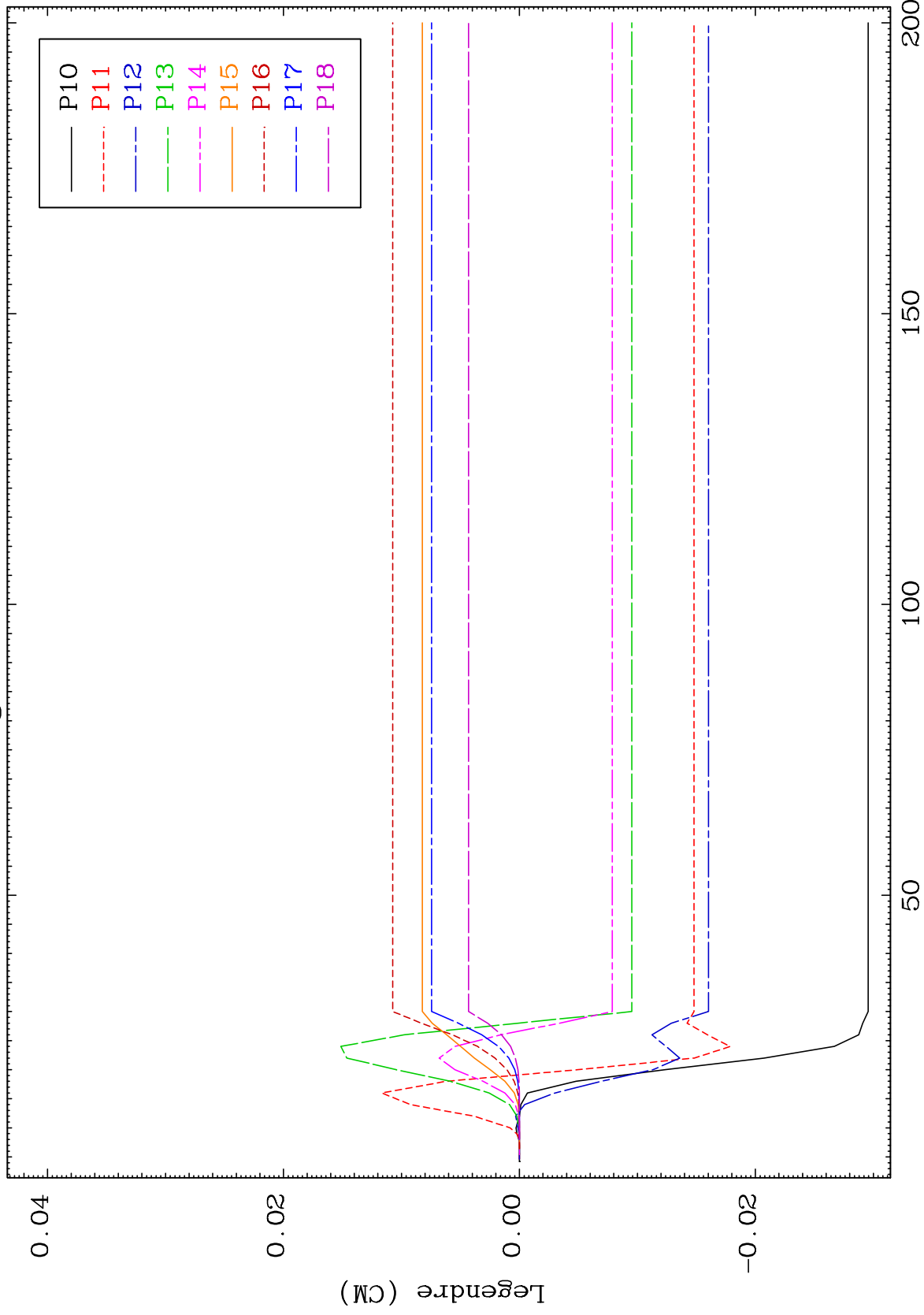
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



100

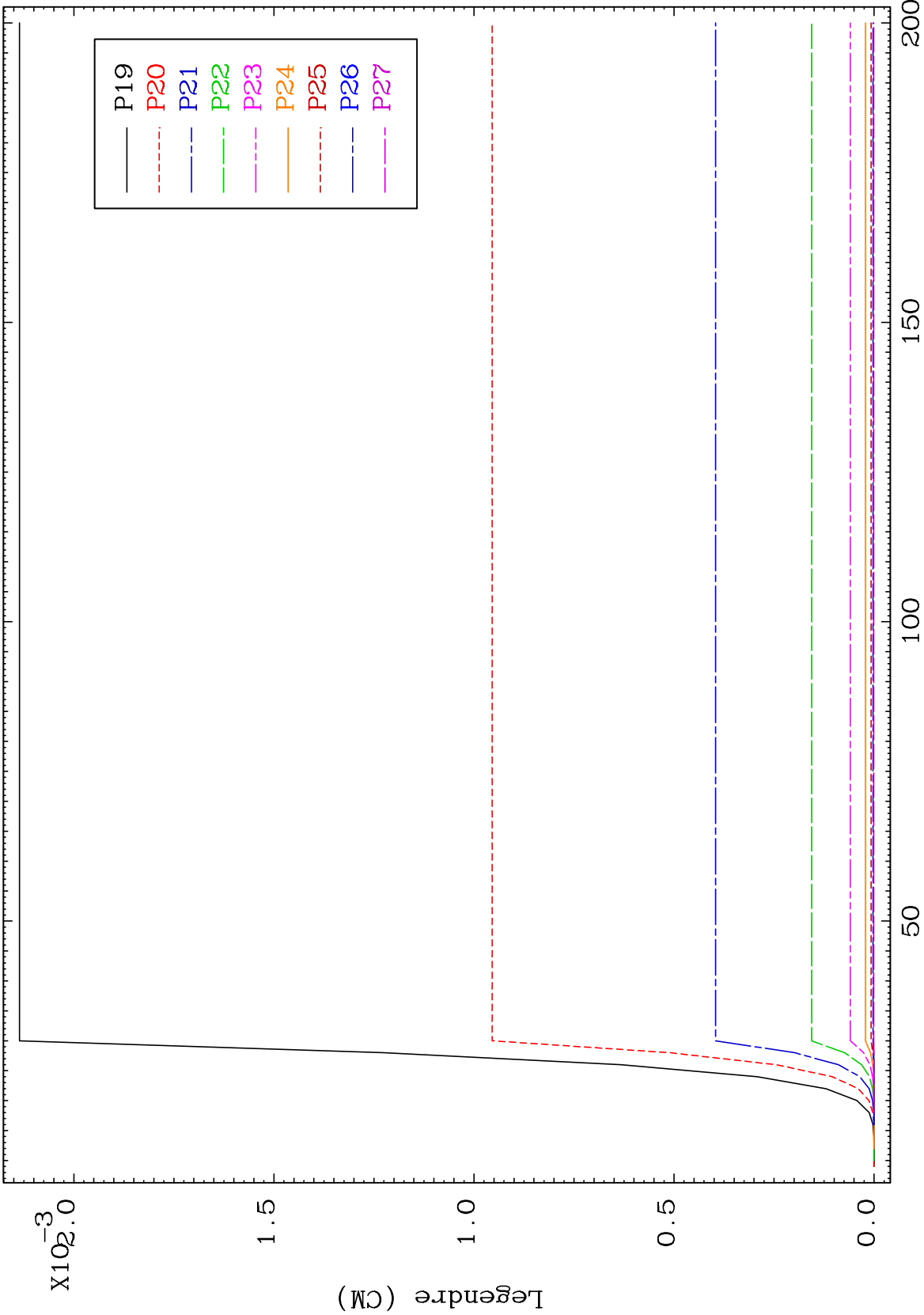
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



101

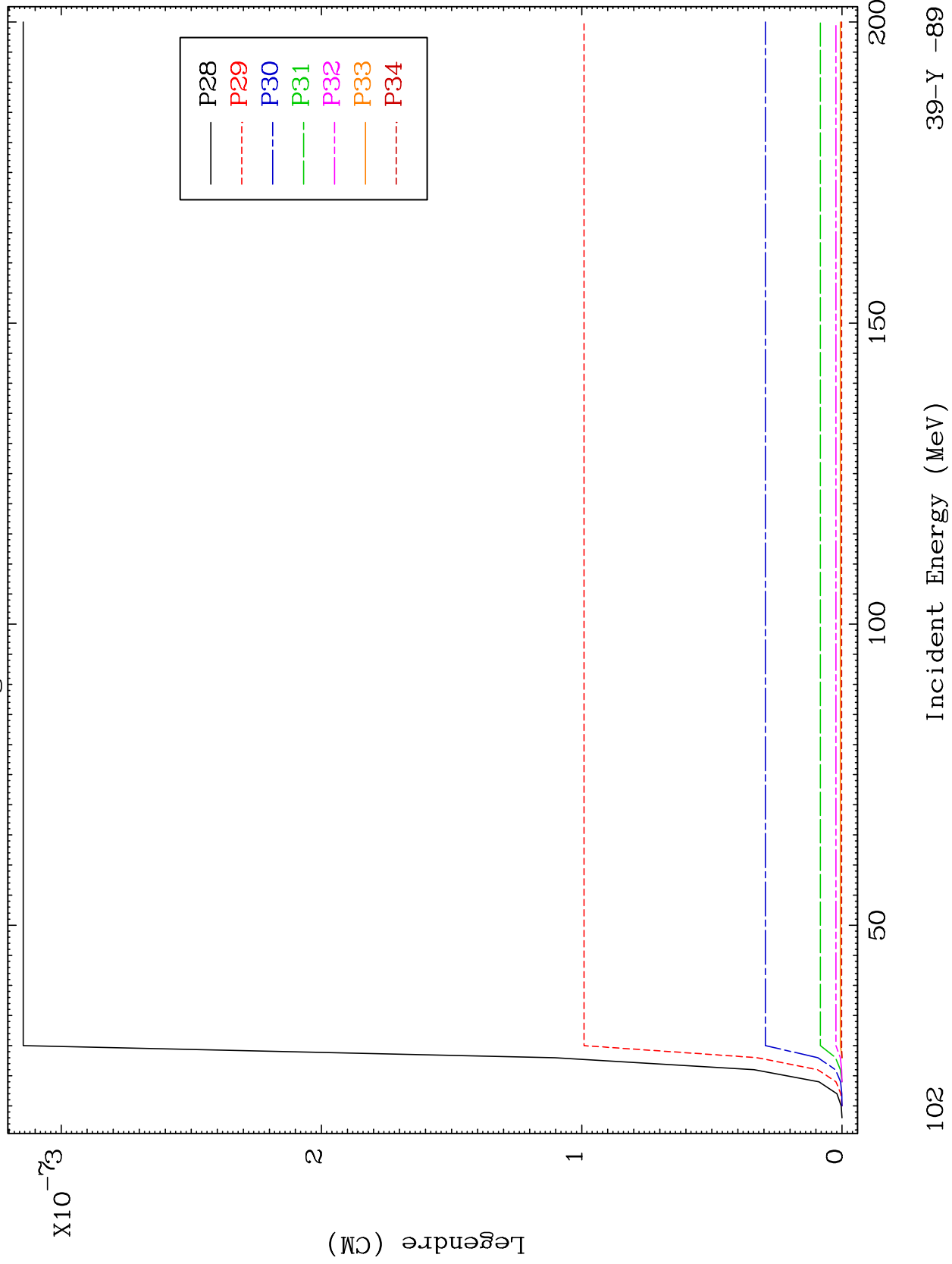
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



102

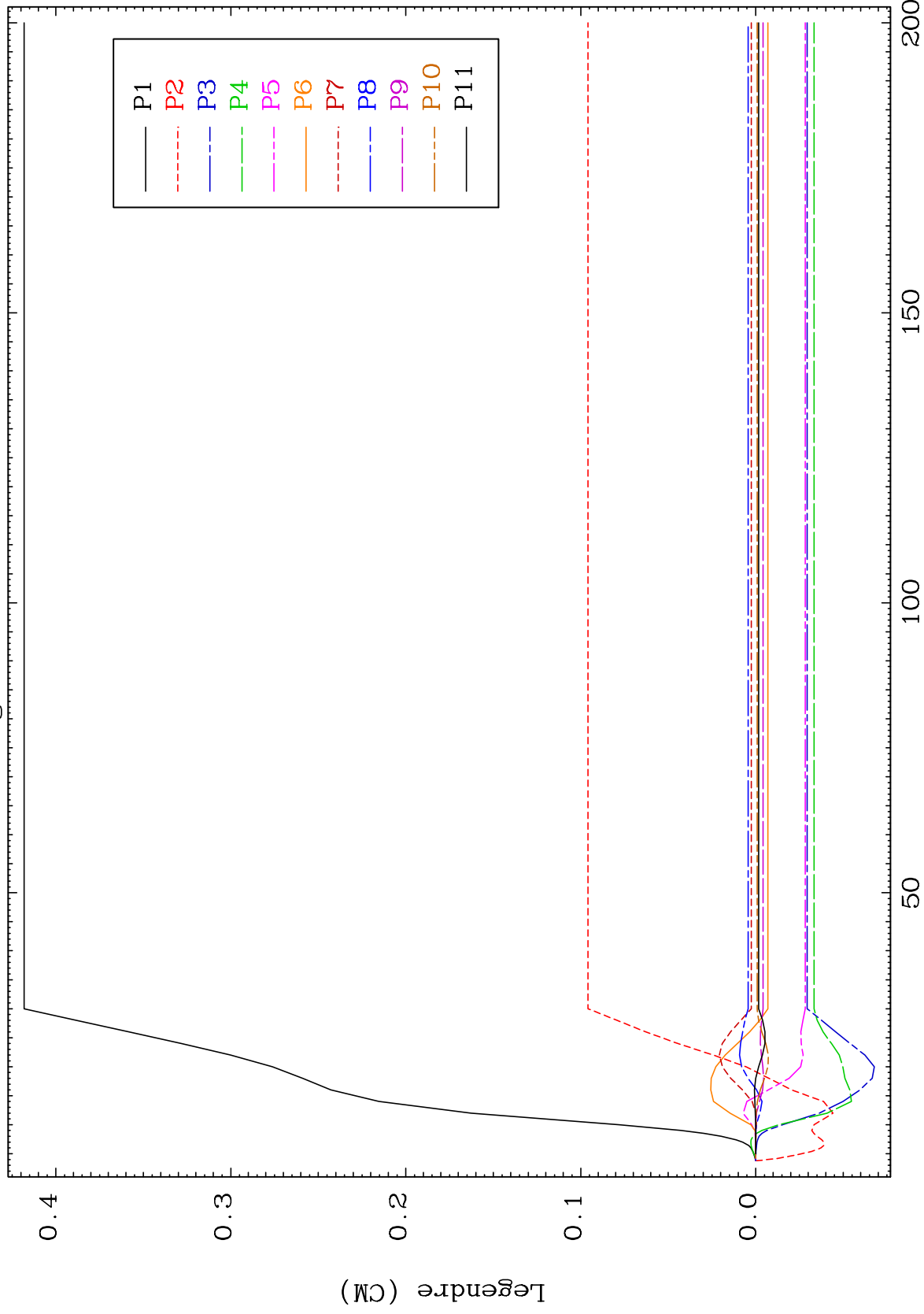
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



103

Incident Energy (MeV)

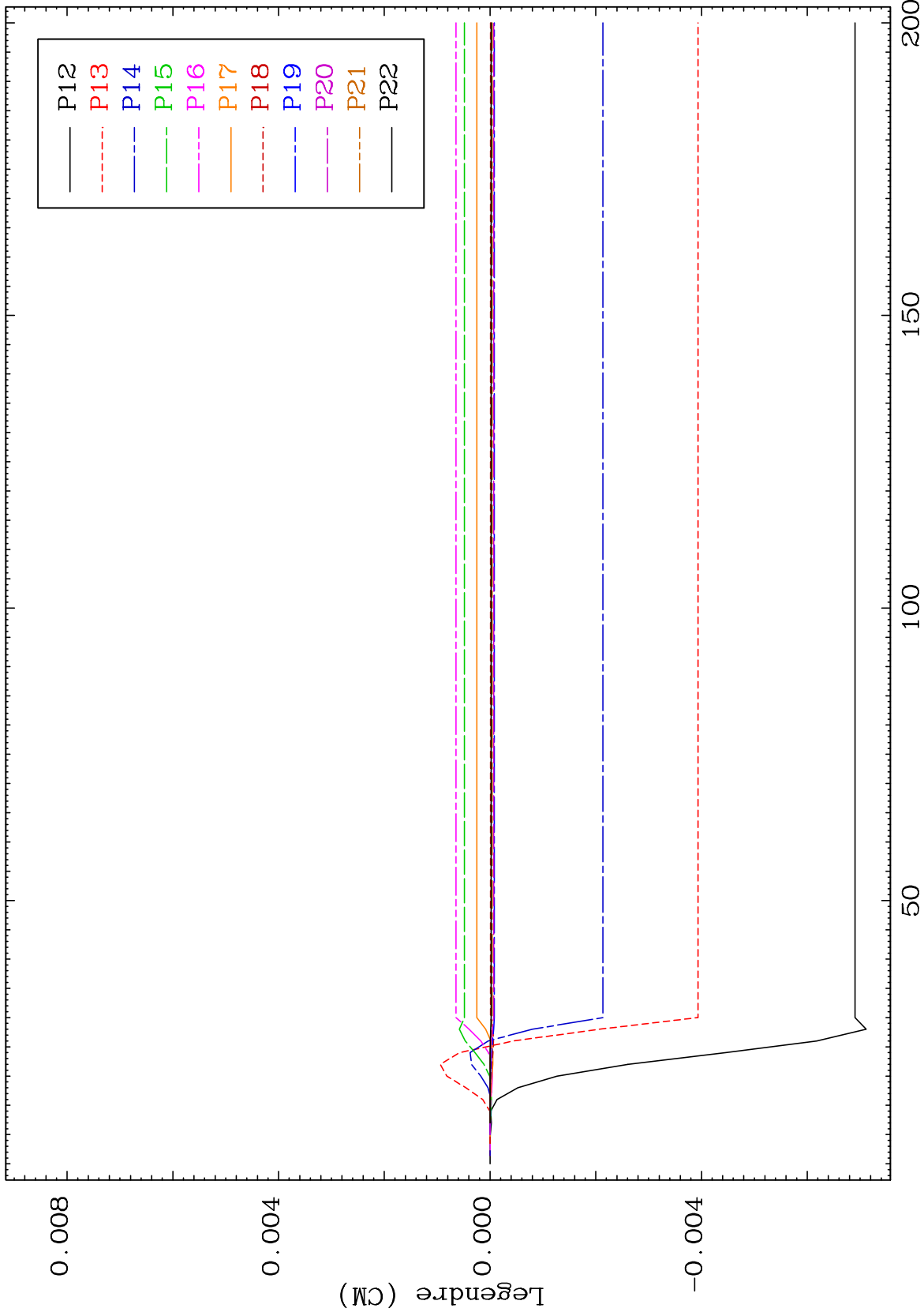
39-Y -89



MAT 3925

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

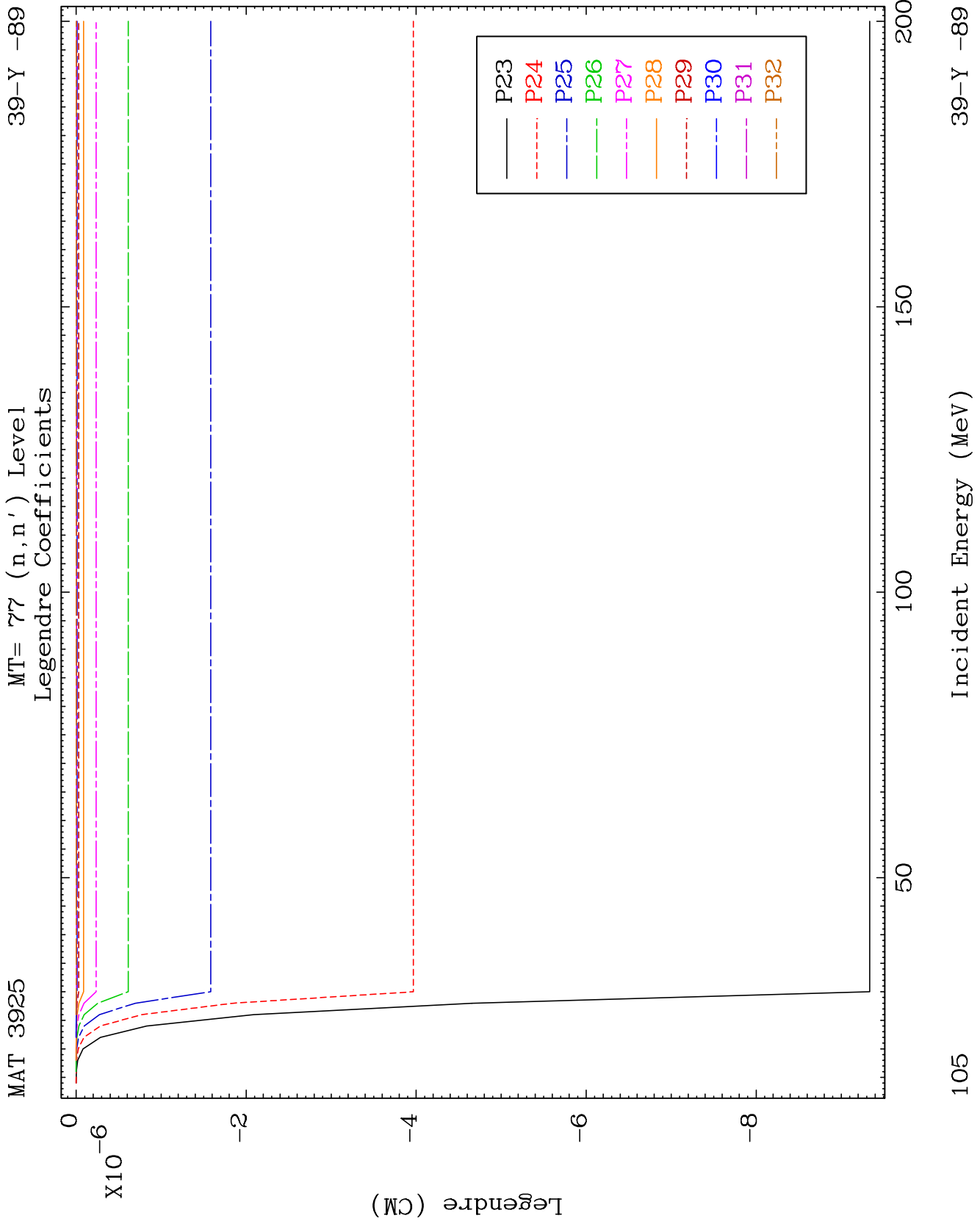
39-Y -89



104

Incident Energy (MeV)

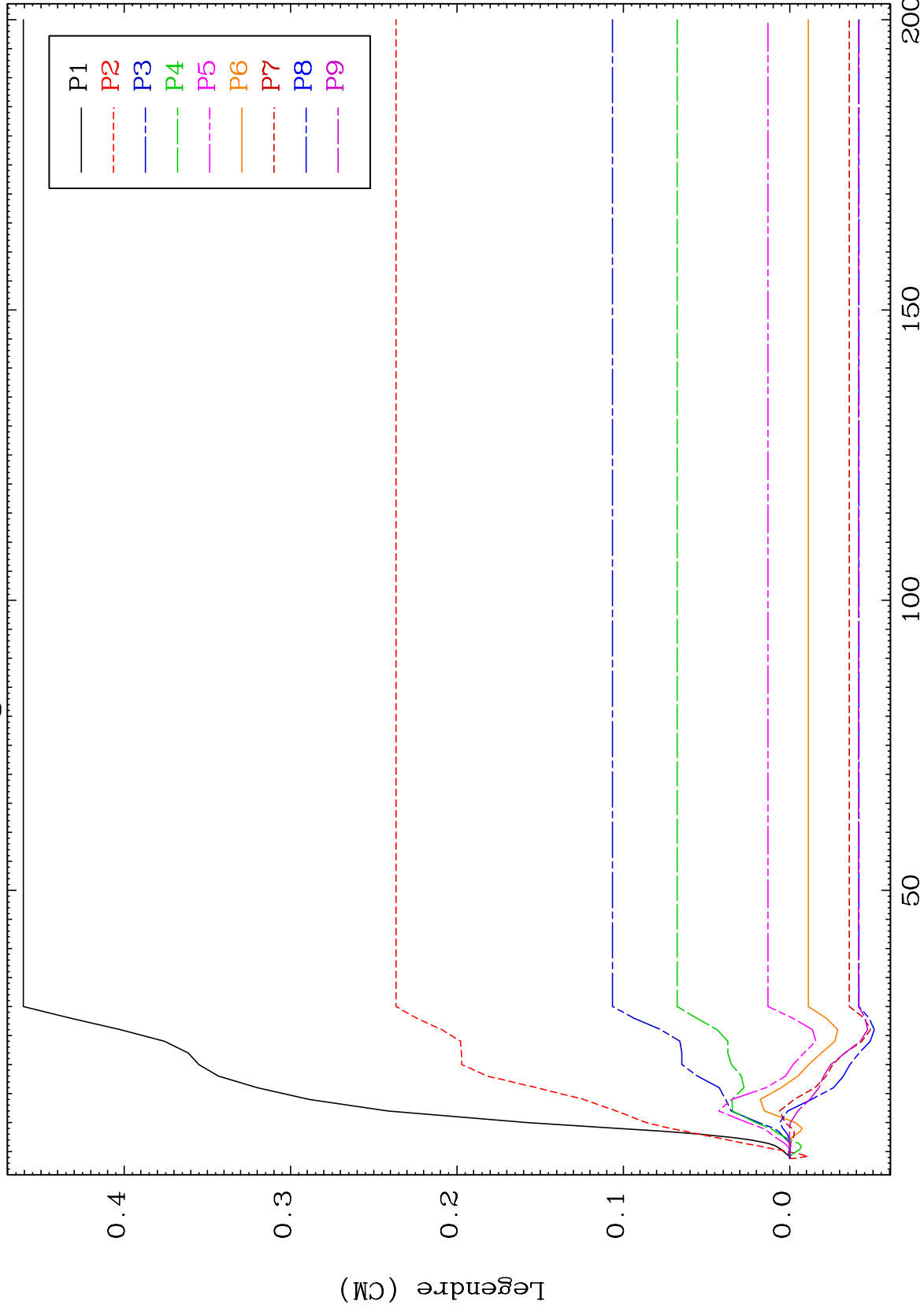
39-Y -89



MAT 3925

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

39-Y -89



106

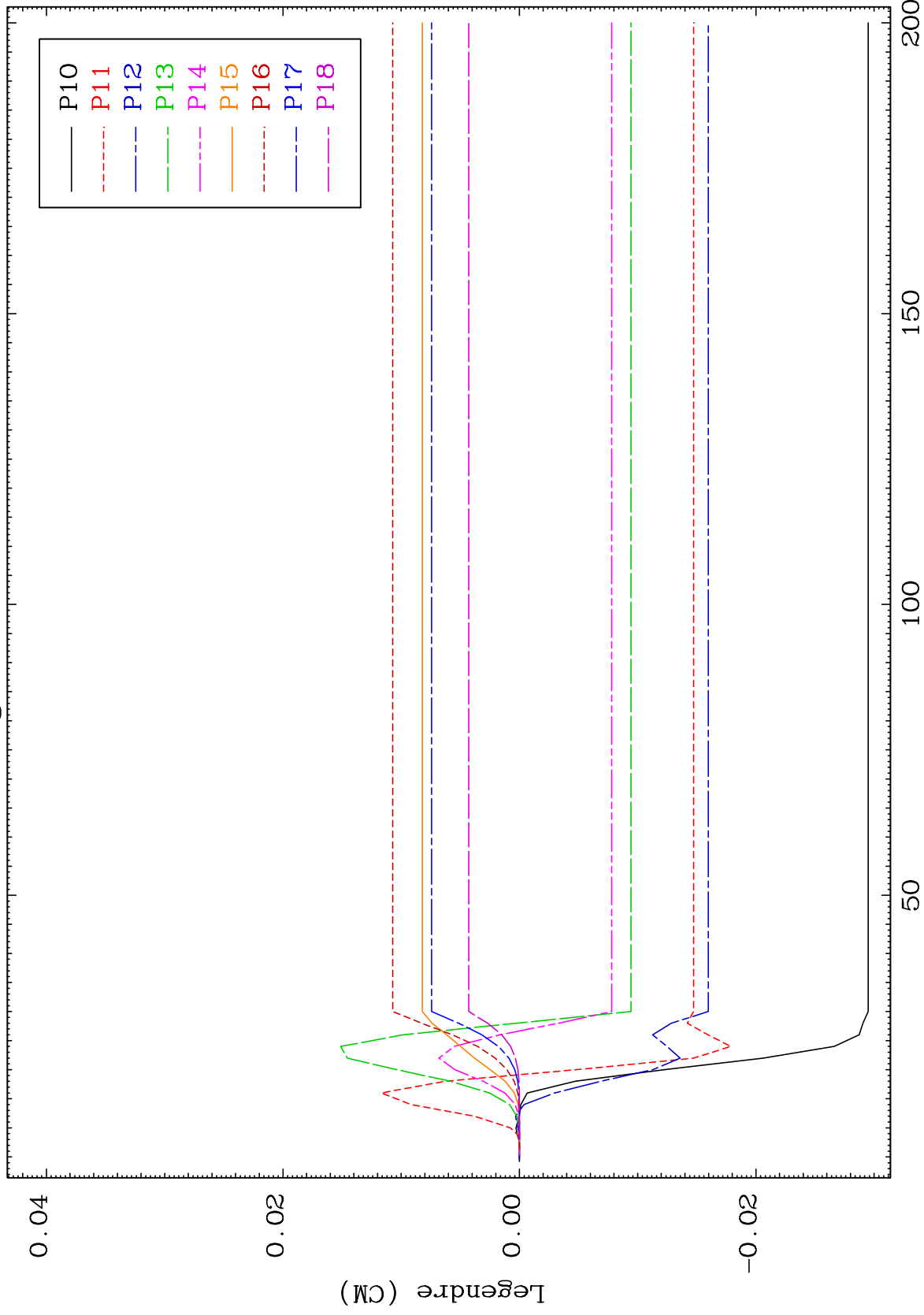
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



107

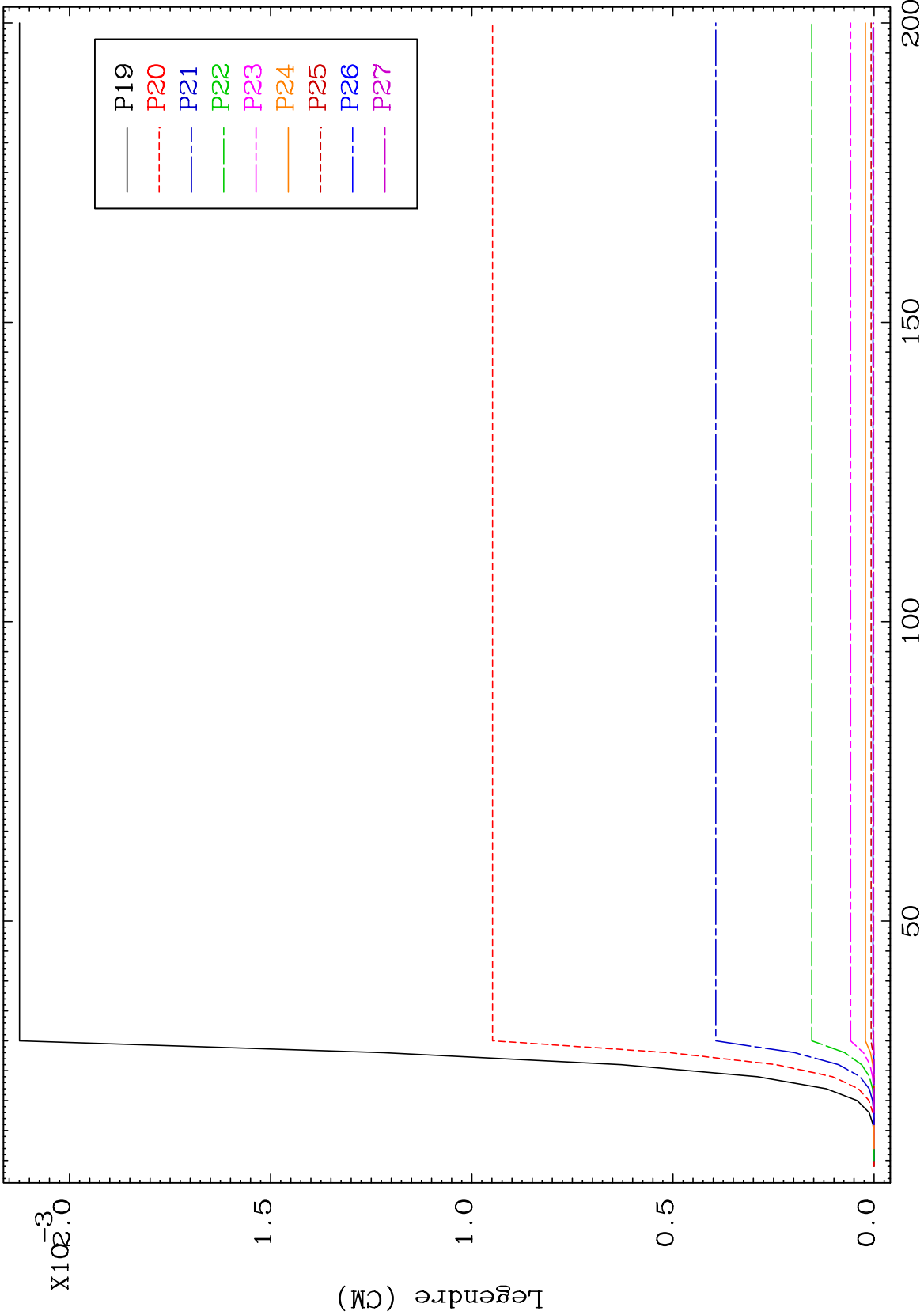
Incident Energy (MeV)

39-Y -89

MAT 3925

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

39-Y -89



108

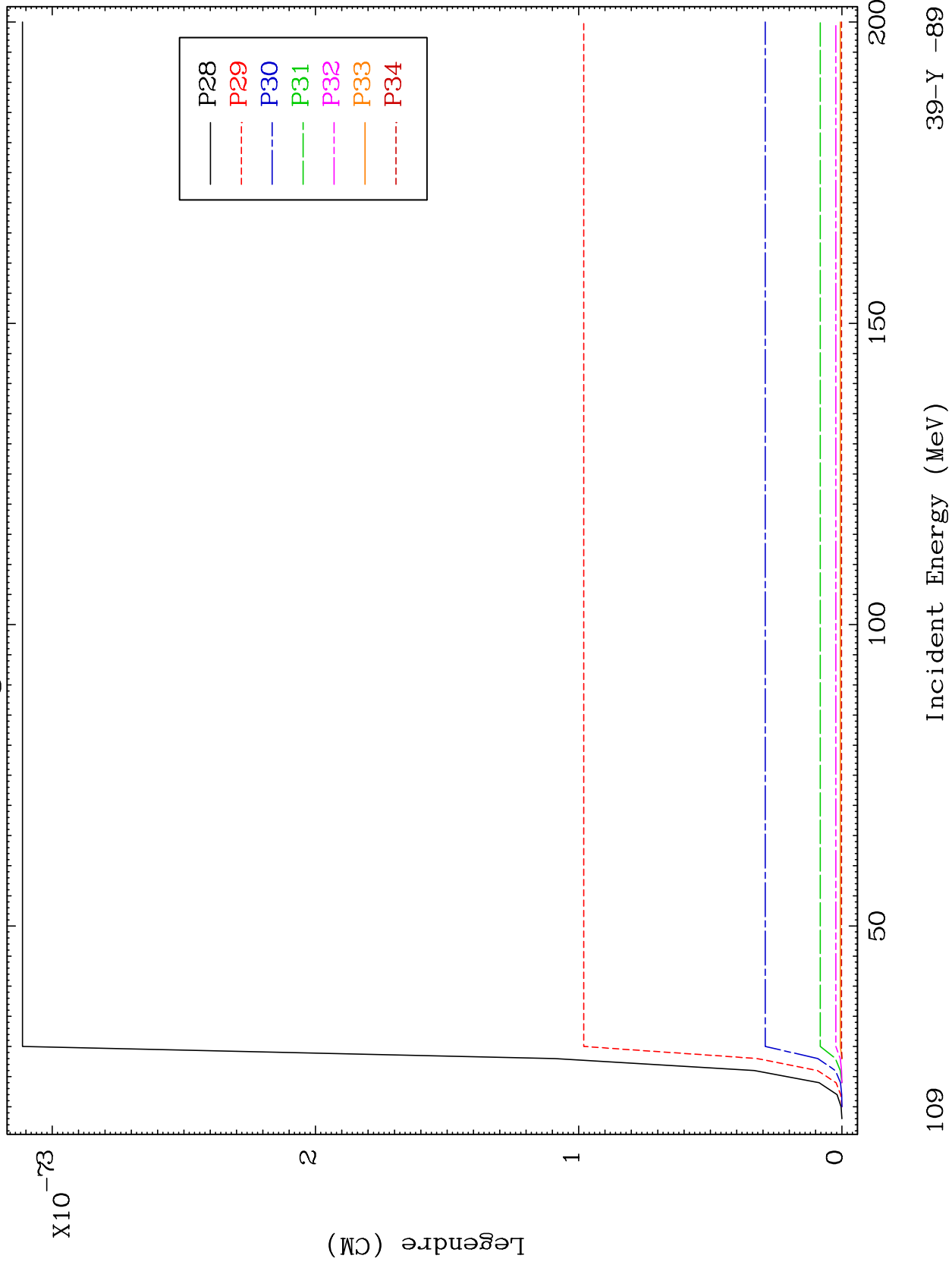
Incident Energy (MeV)

39-Y -89

MAT 3925

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

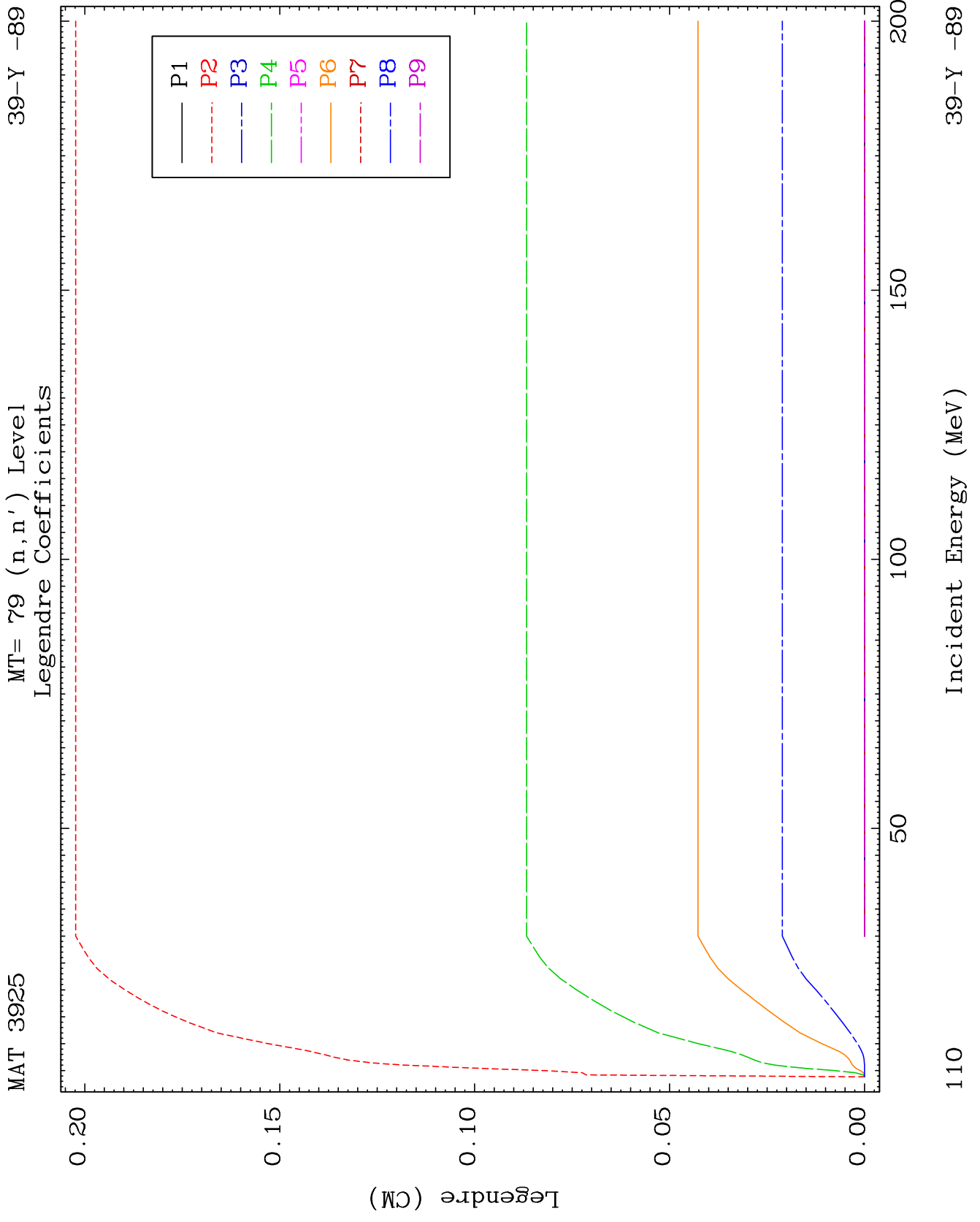
39-Y -89

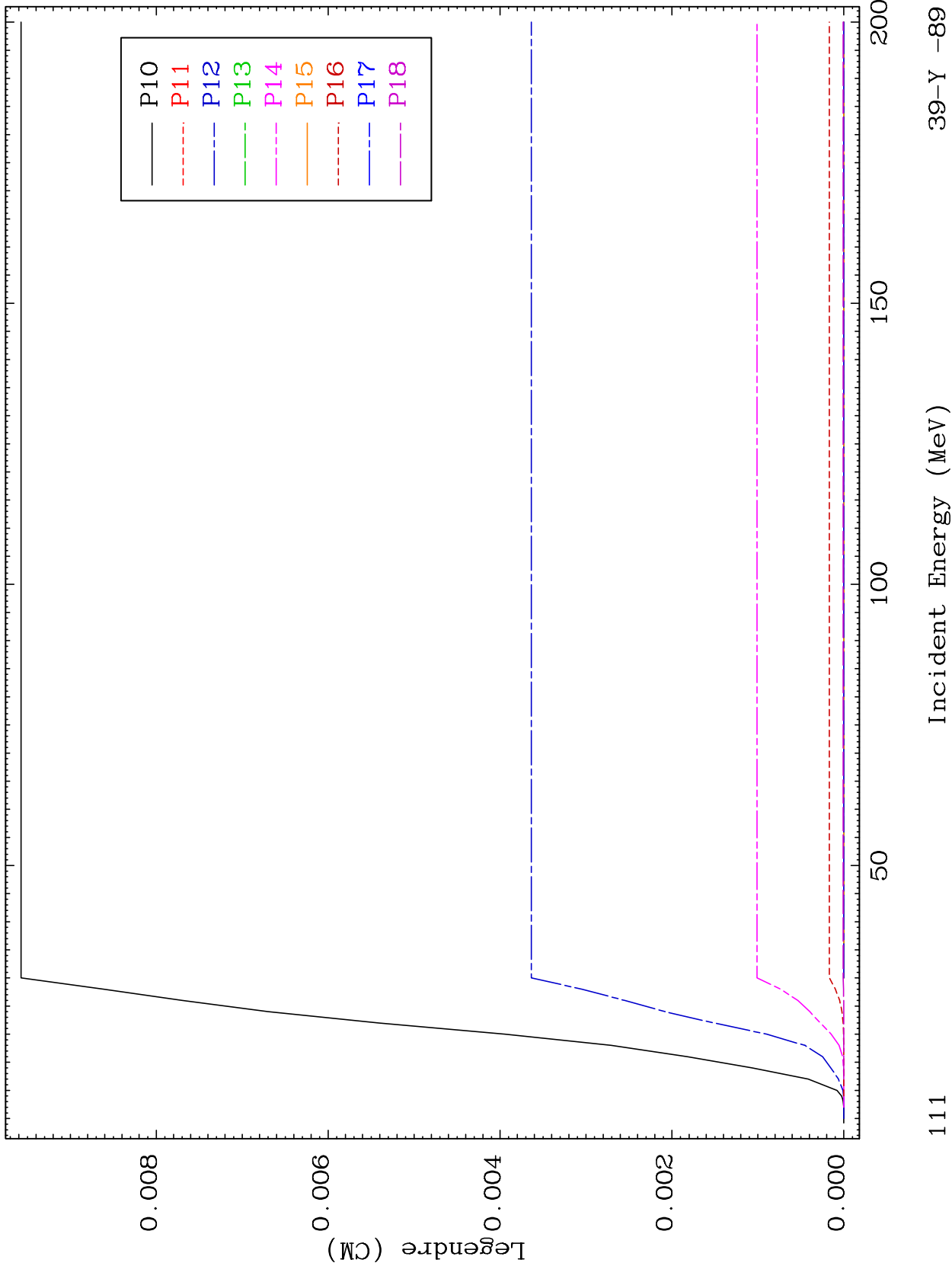


109

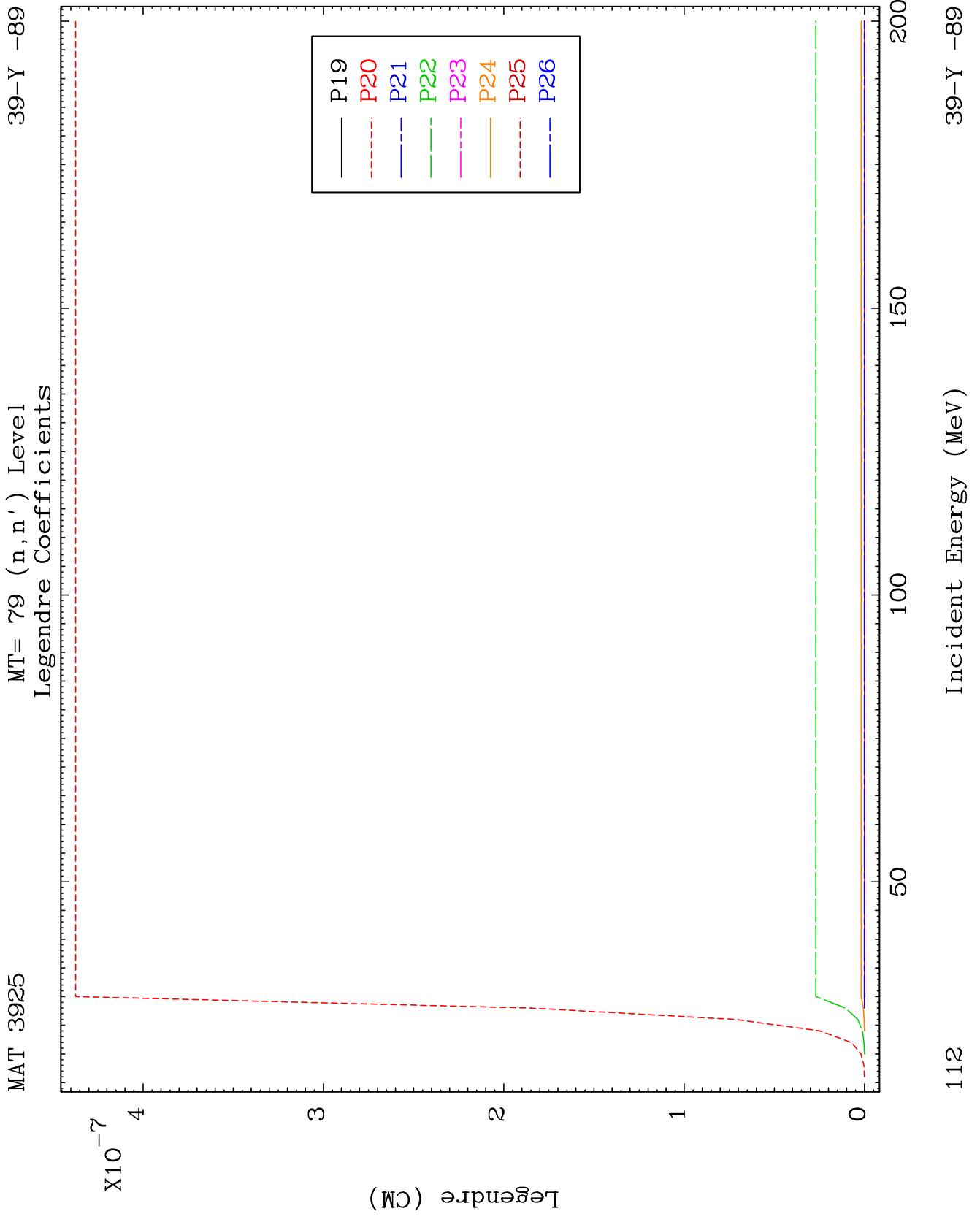
Incident Energy (MeV)

39-Y -89





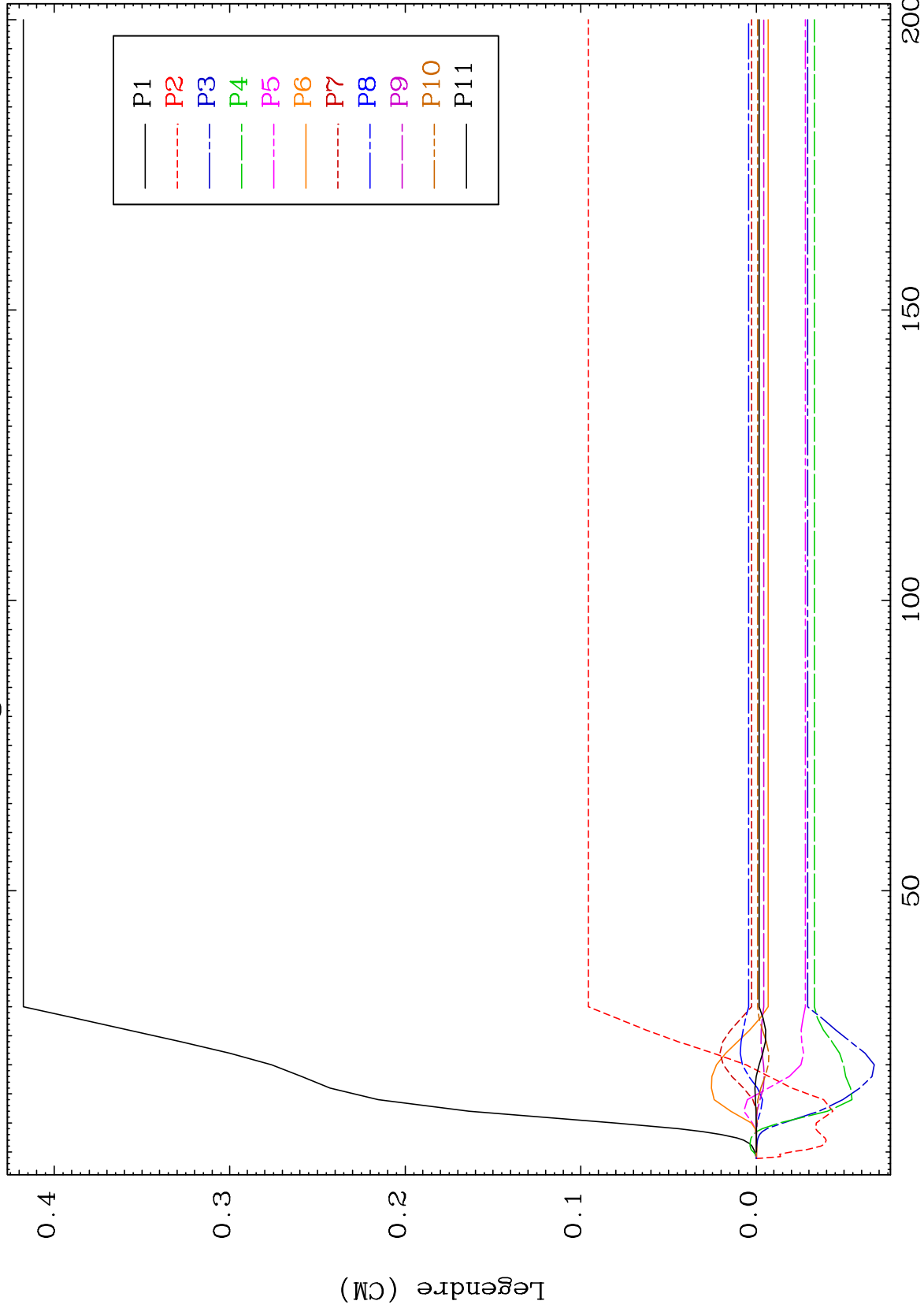




MAT 3925

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

39-Y -89



113

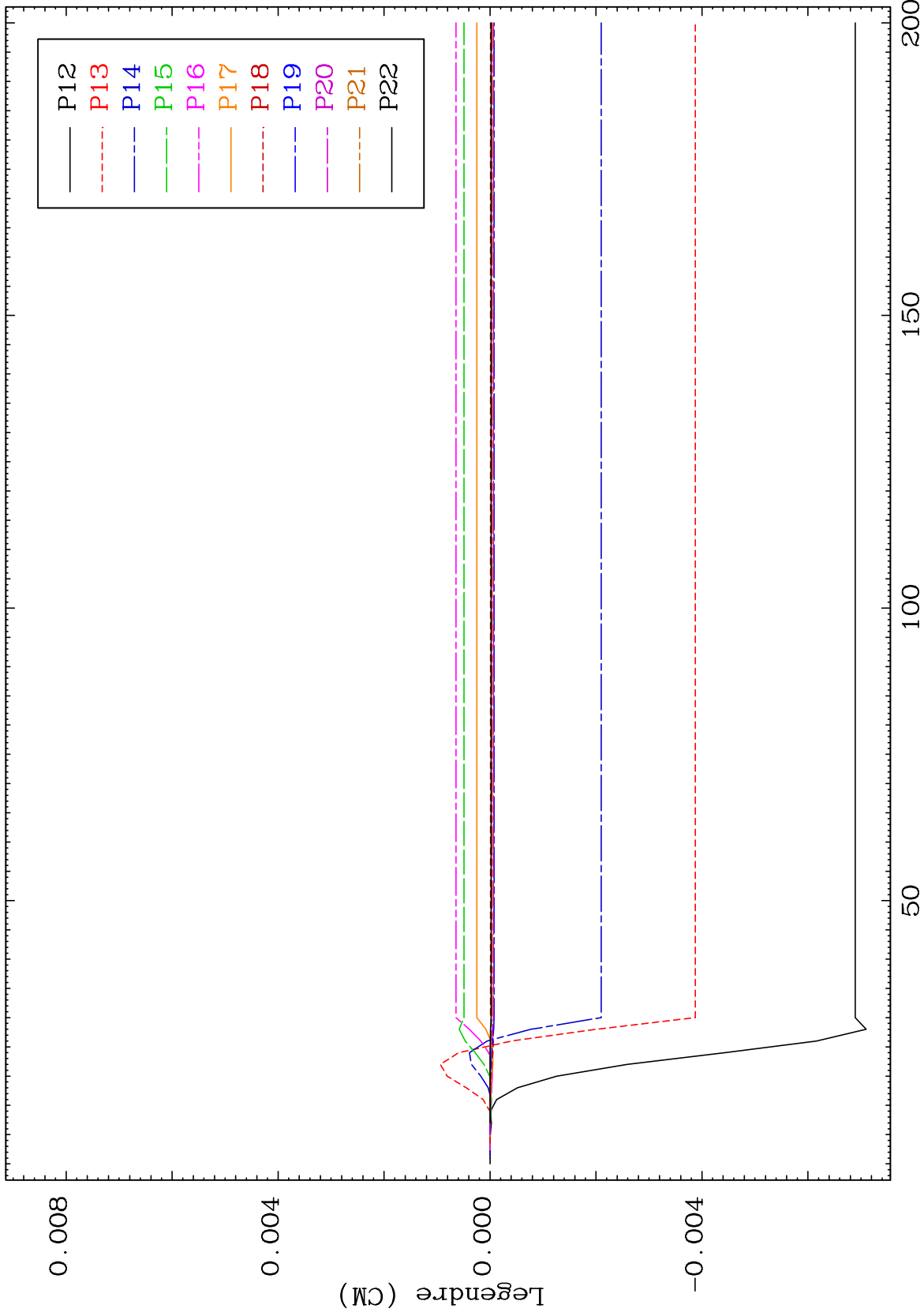
Incident Energy (MeV)

39-Y -89

MAT 3925

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

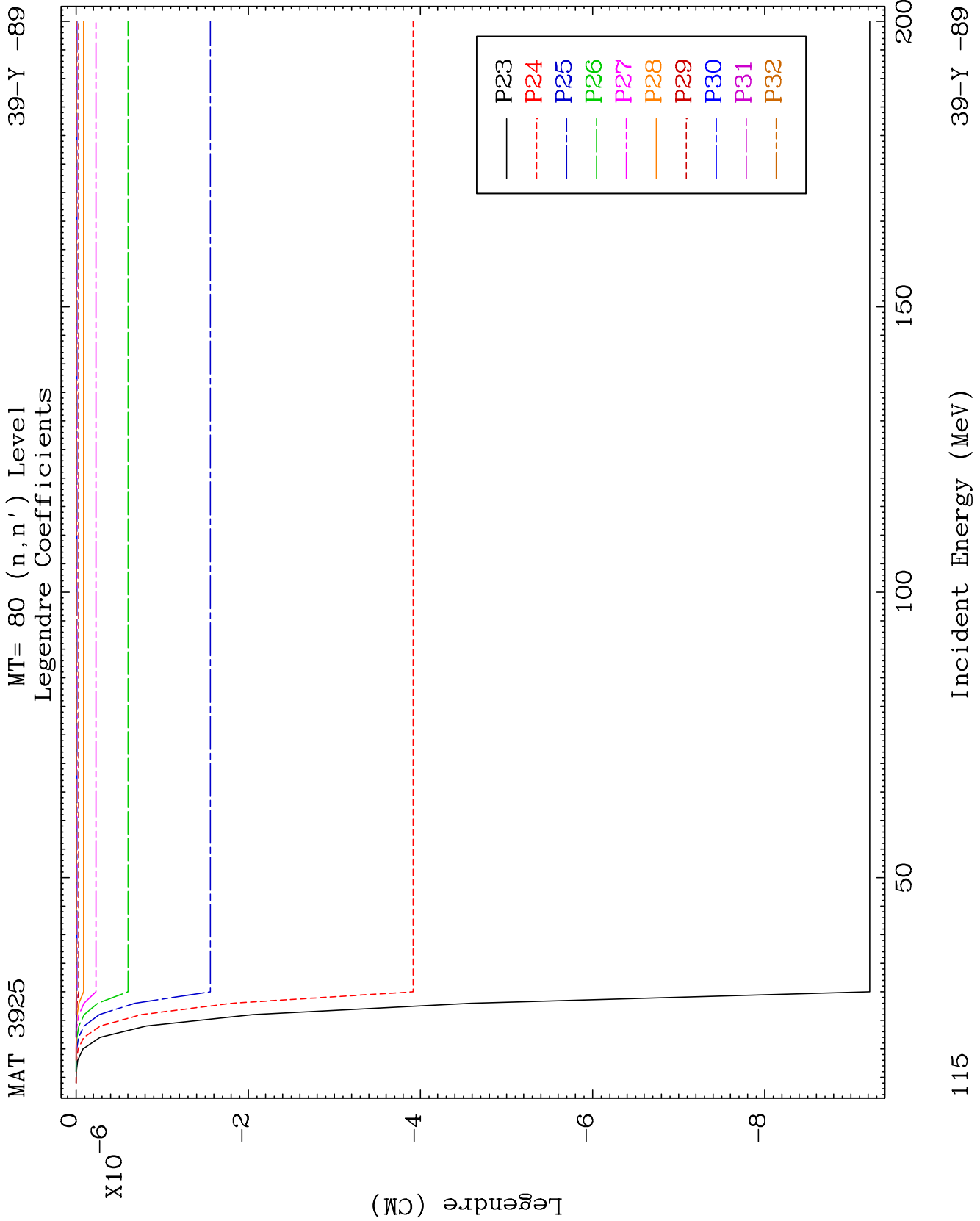
39-Y -89



114

Incident Energy (MeV)

39-Y -89



MAT 3925

39-Y -89

Inelastic  
Radionuclide Production Cross Section



39-Y -89

Incident Energy (MeV)

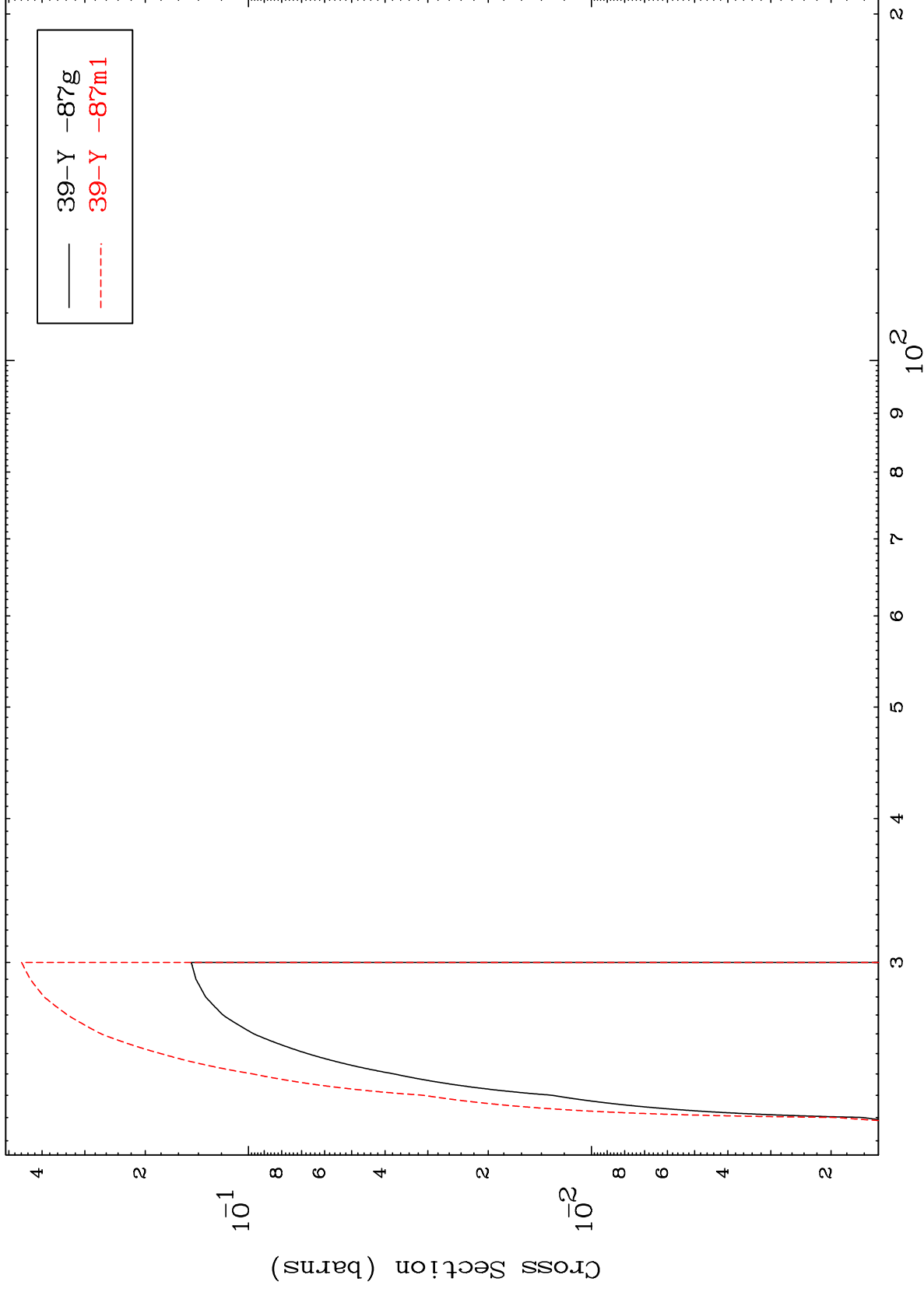
116

MAT 3925

(n,3n)

39-Y -89

Radionuclide Production Cross Section

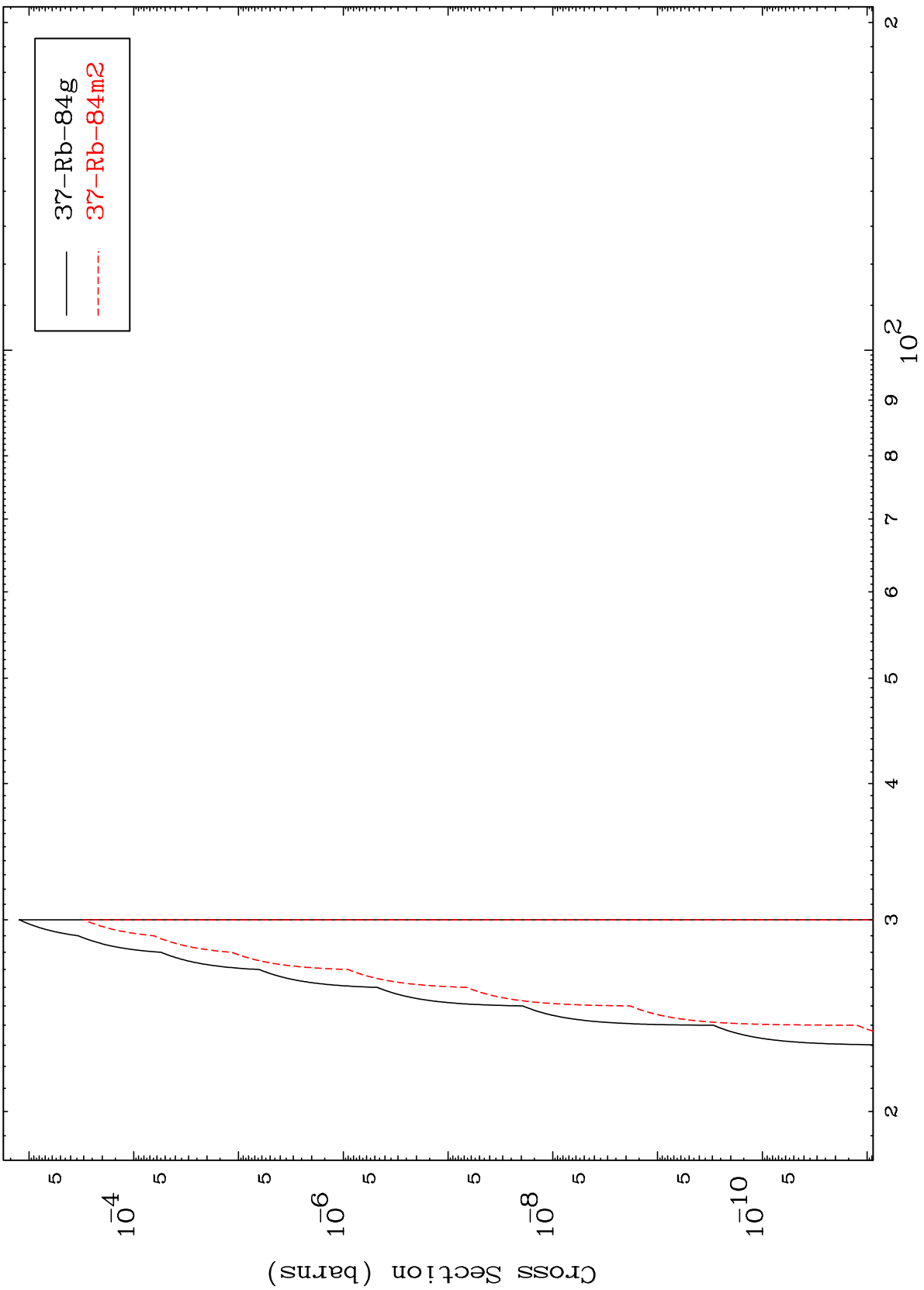


117

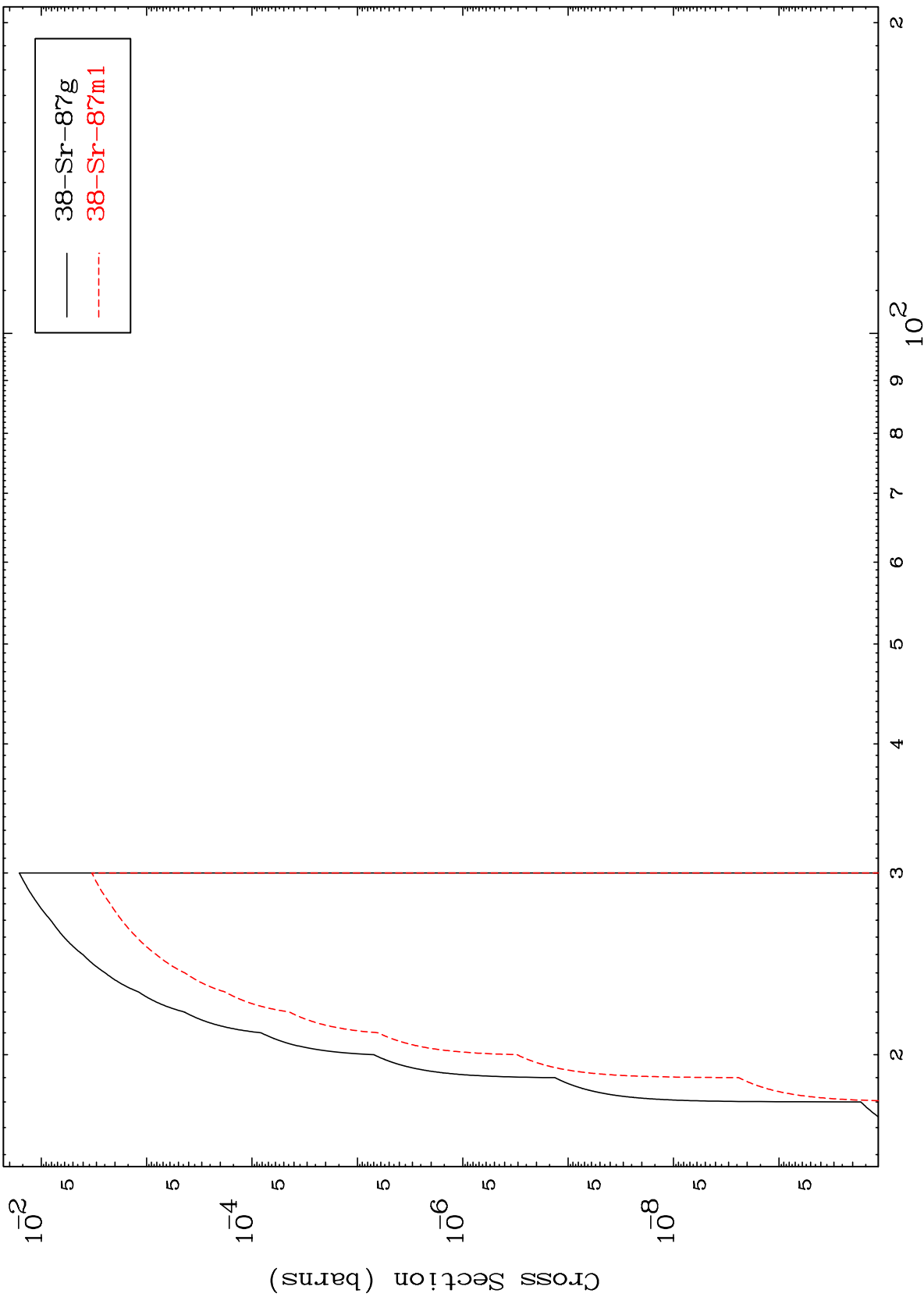
Incident Energy (MeV)

39-Y -89

Radionuclide Production Cross Section



Radionuclide Production Cross Section



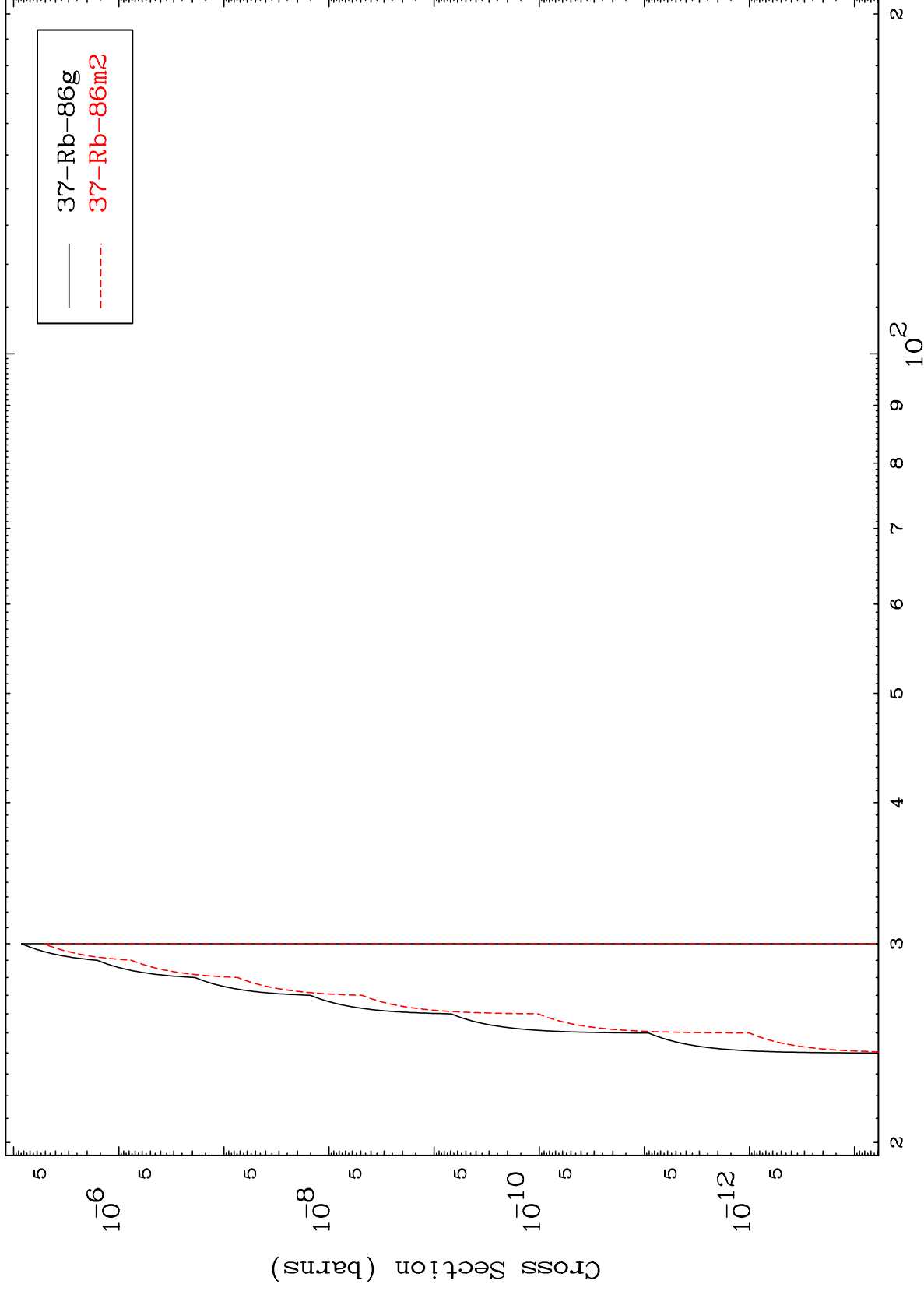


MAT 3925

(n,n') He-3

39-Y -89

Radionuclide Production Cross Section

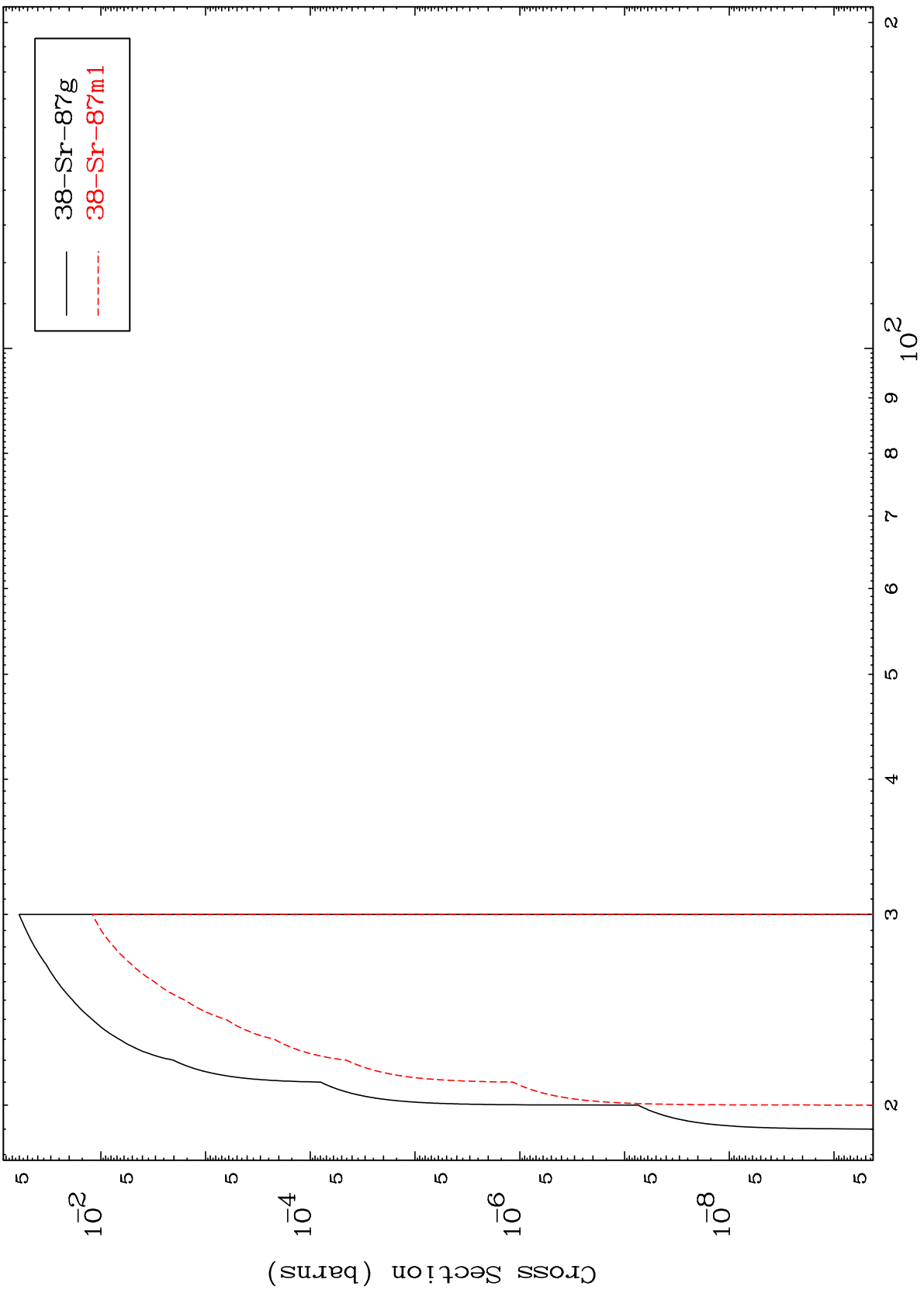


120

Incident Energy (MeV)

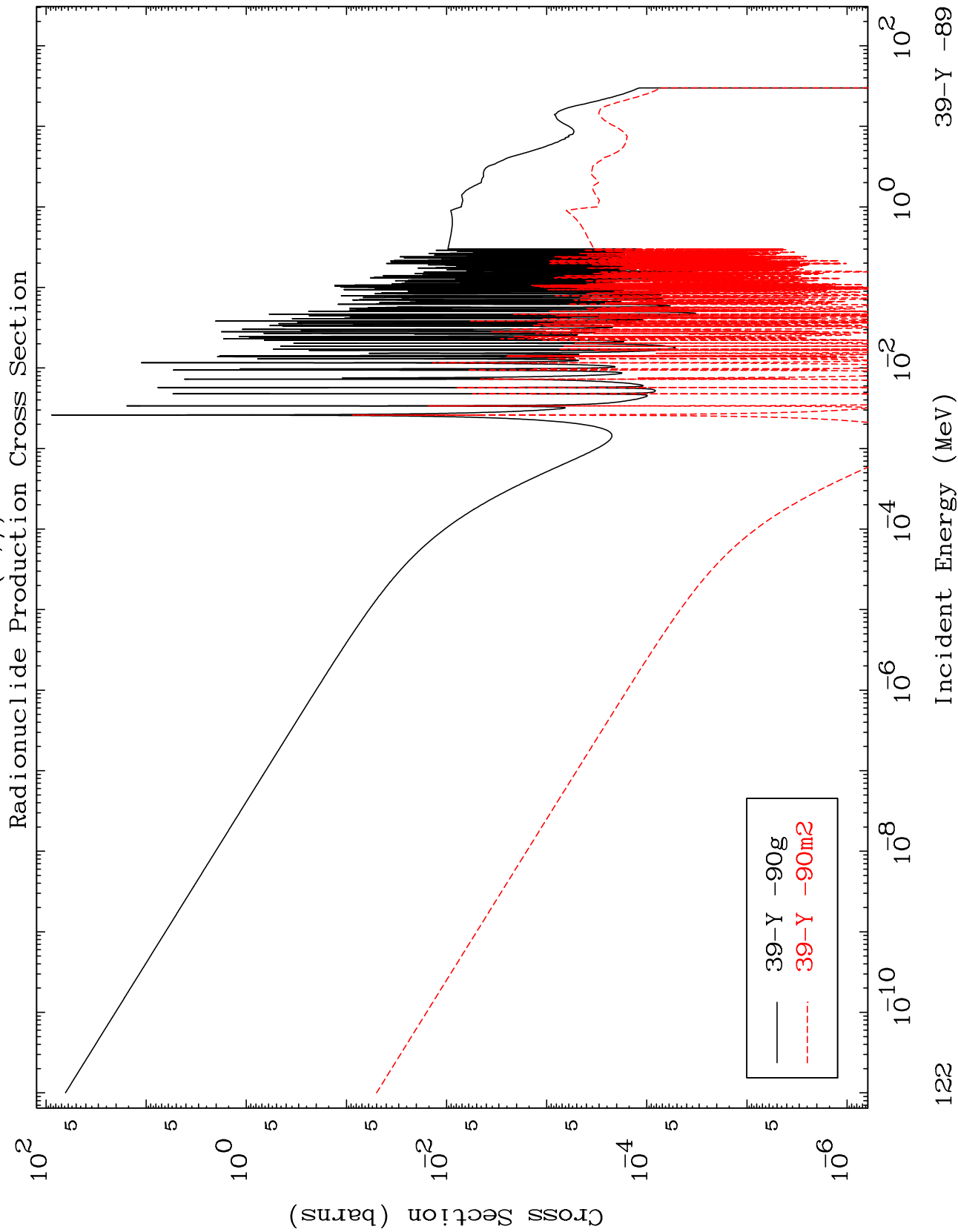
39-Y -89

Radionuclide Production Cross Section



MAT 3925

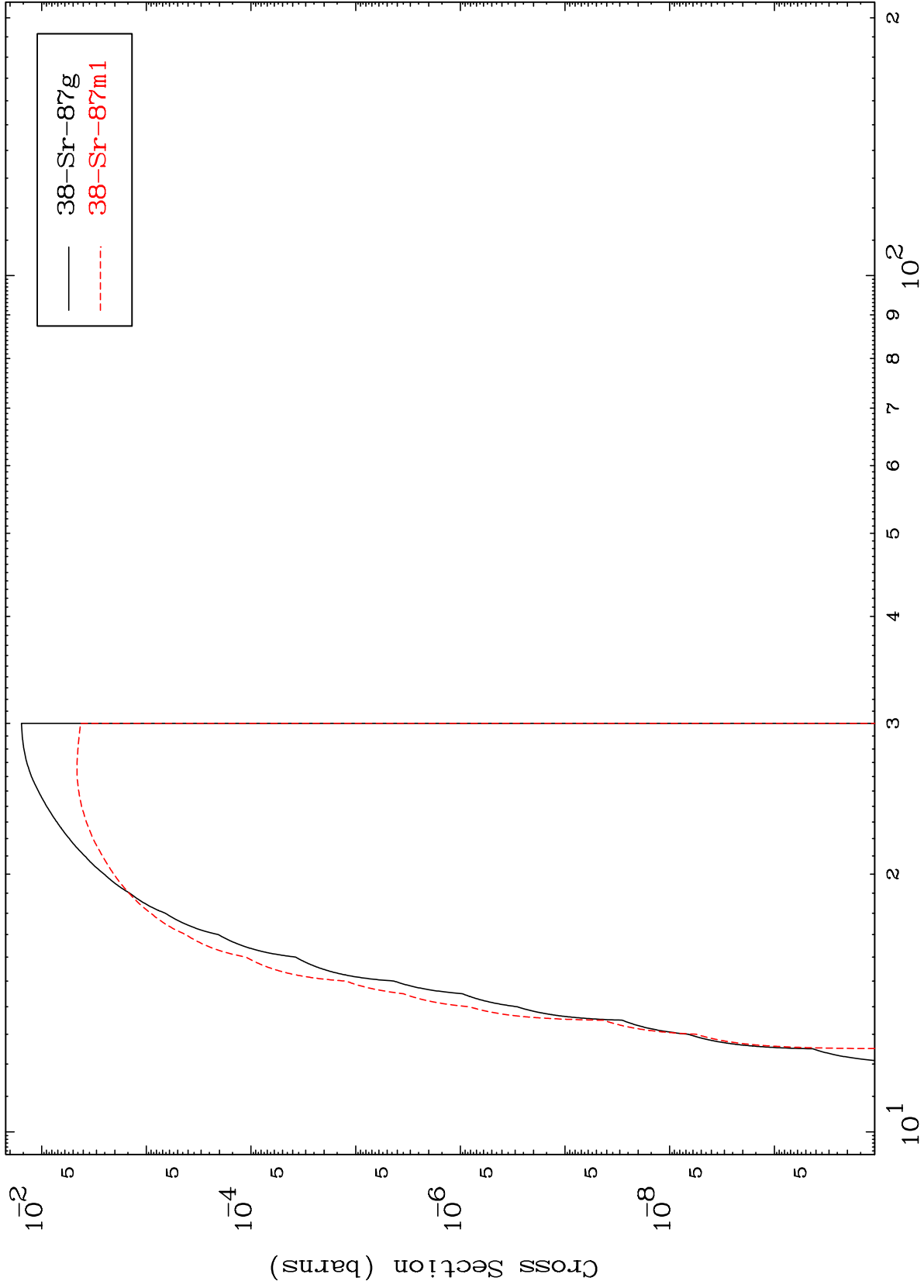
39-Y -89



MAT 3925

39-Y -89

(n,t)  
Radionuclide Production Cross Section



39-Y -89

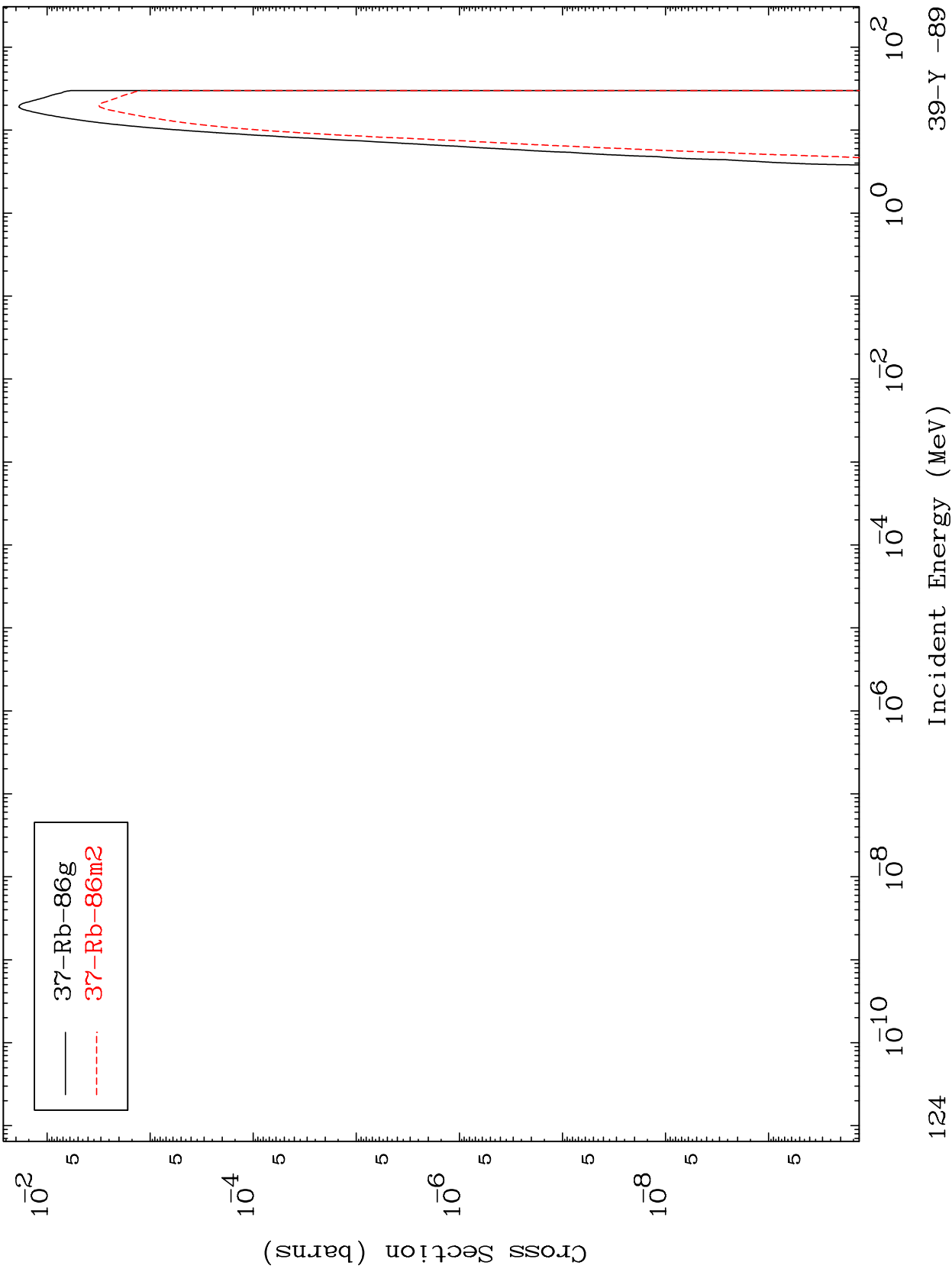
Incident Energy (MeV)

123

MAT 3925

39-Y -89

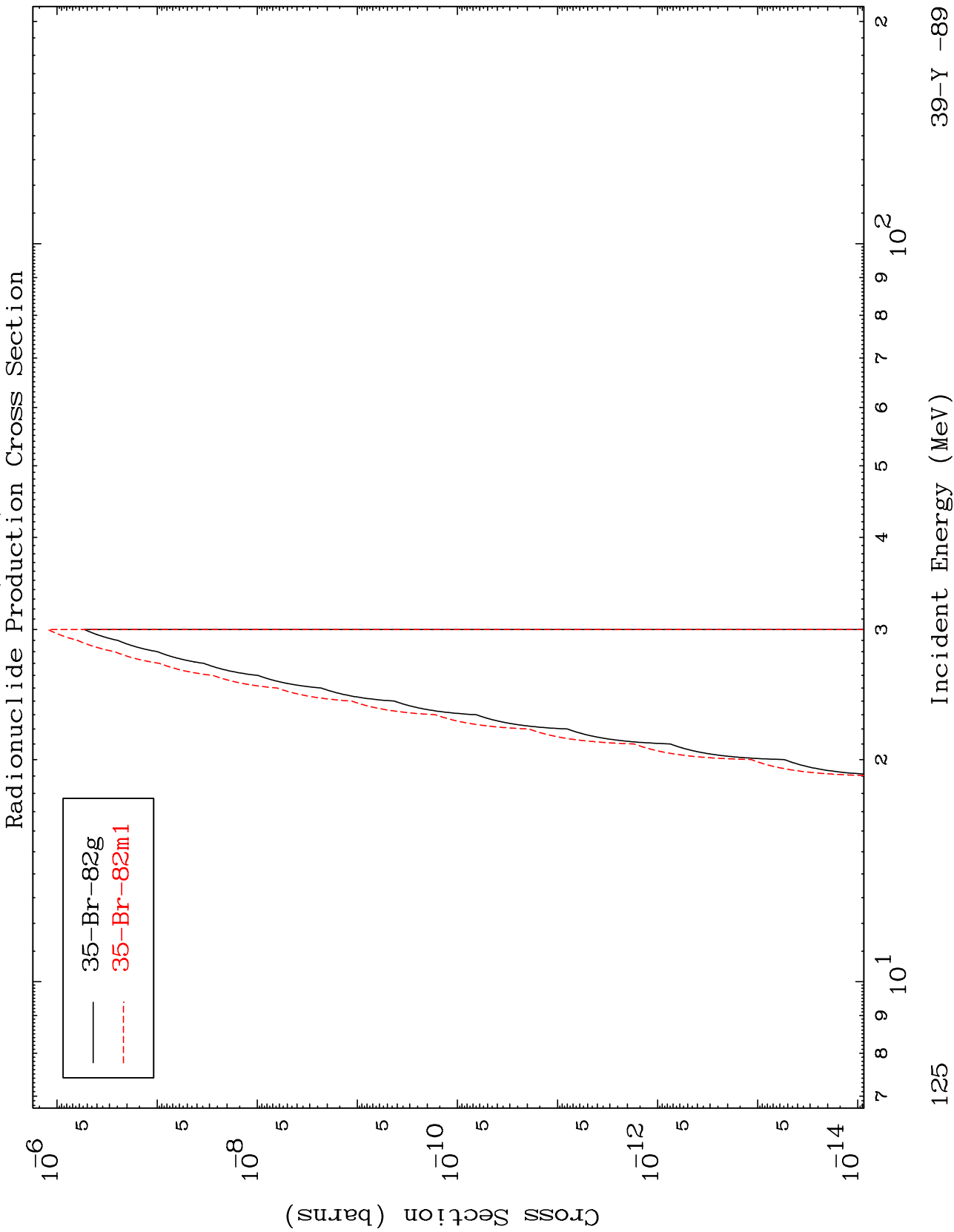
Radionuclide Production Cross Section  
(n,  $\alpha$ )



— 37-Rb-86g  
- - - 37-Rb-86m2

MAT 3925

39-Y -89



125

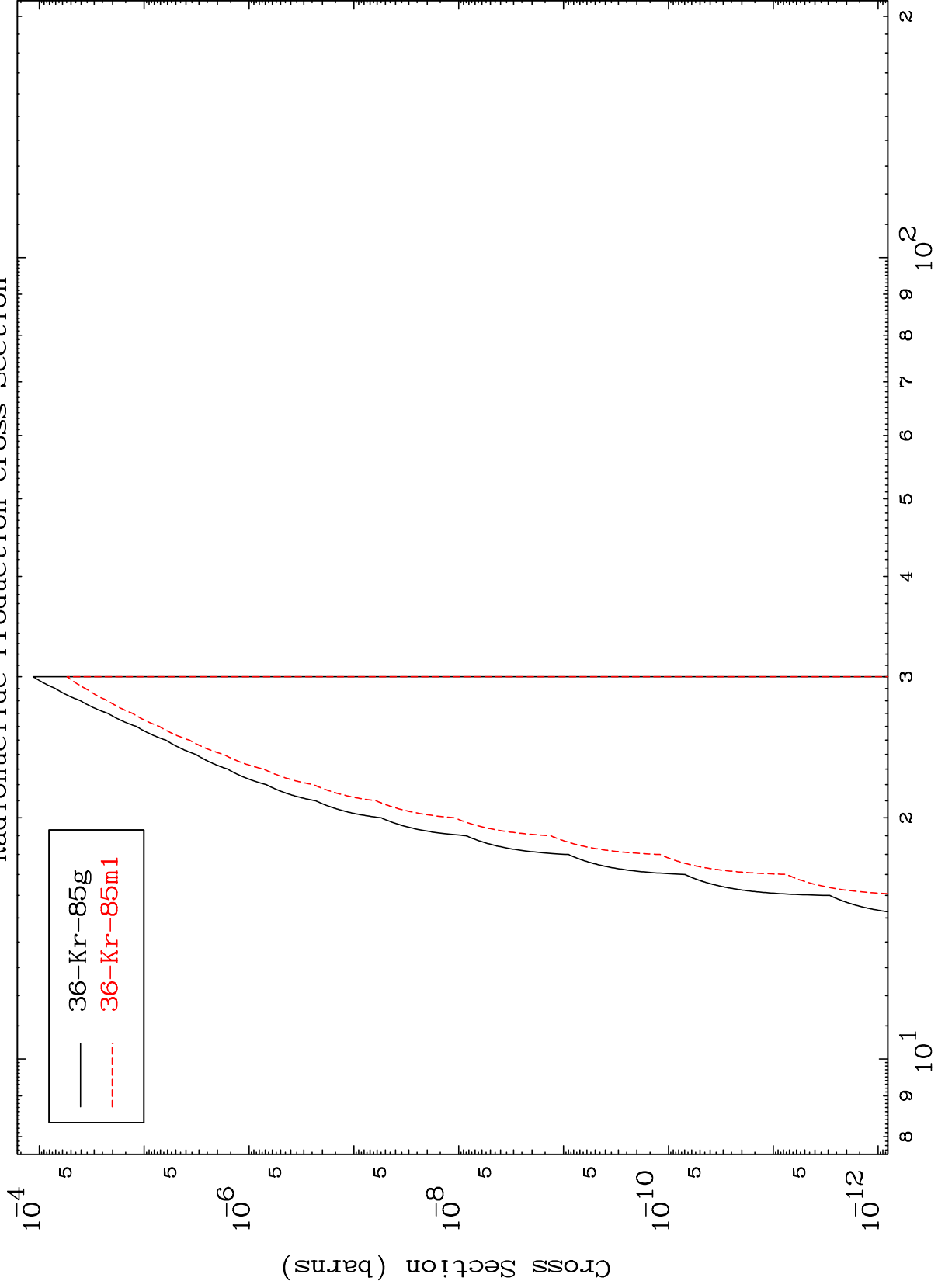
39-Y -89

MAT 3925

(n,p)  $\alpha$

39-Y -89

Radionuclide Production Cross Section



126

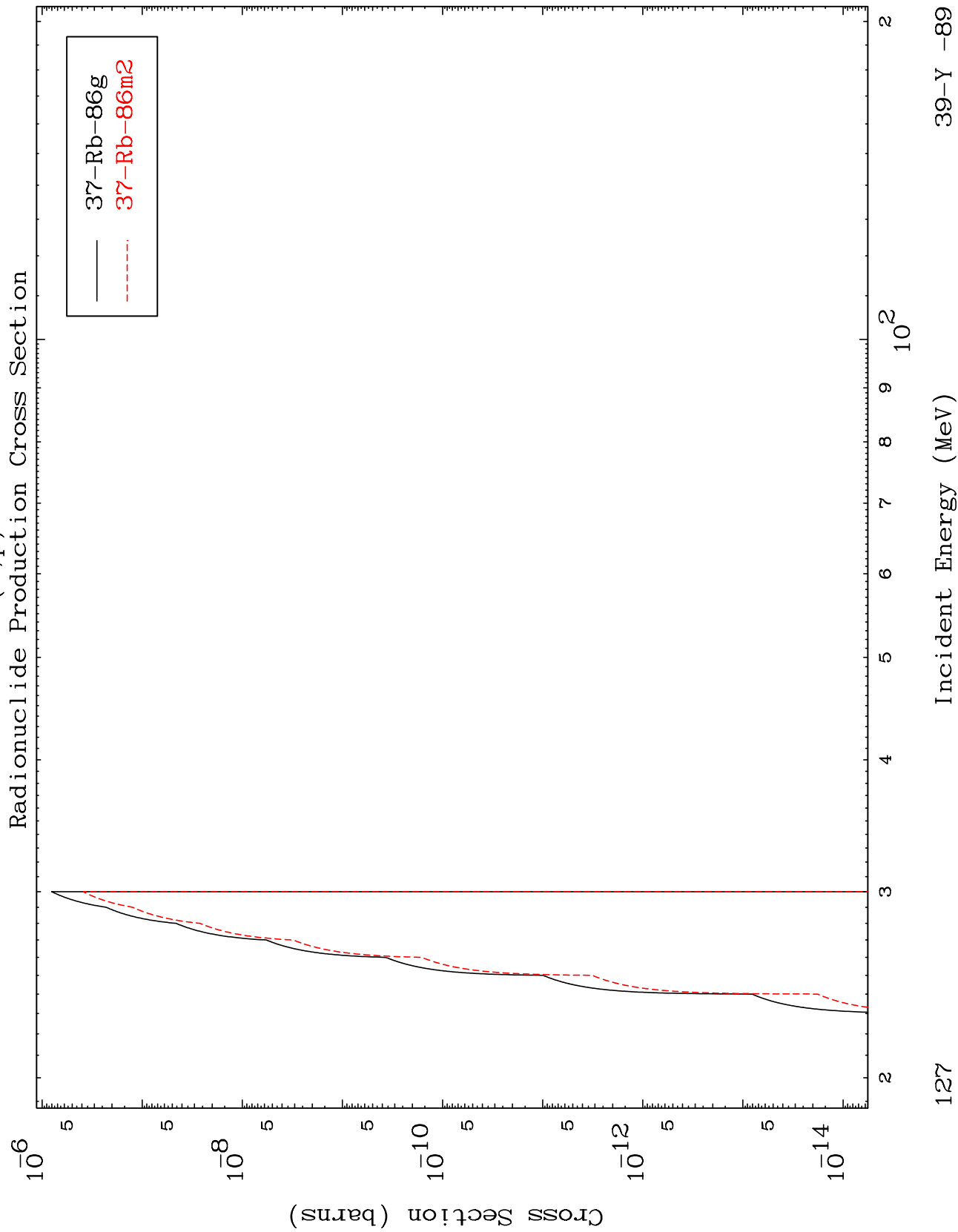
Incident Energy (MeV)

39-Y -89

MAT 3925

(n,p) t

39-Y -89



127

39-Y -89