

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](mailto:redcullen1@comcast.net)

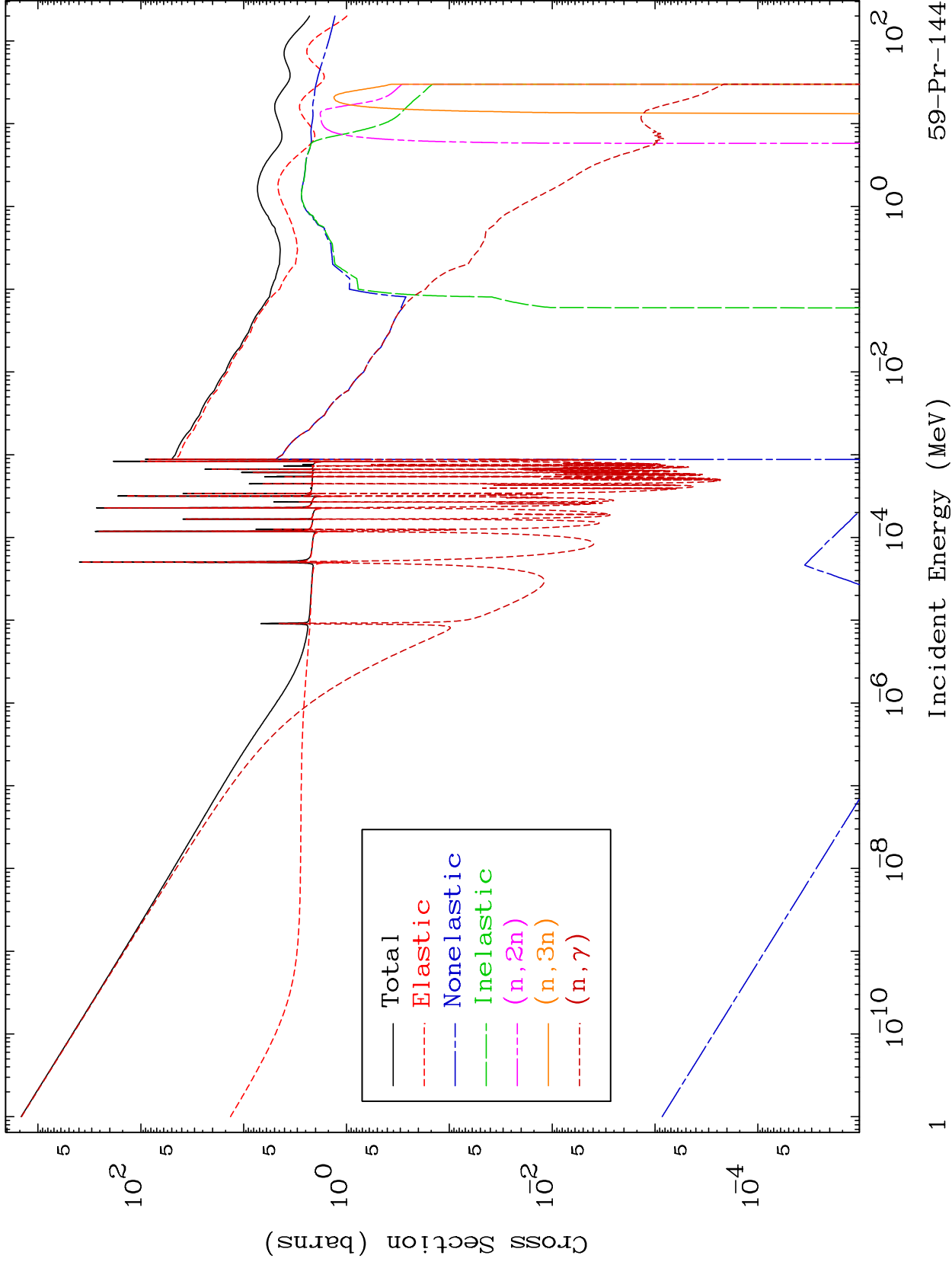
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 5934

Neutron Major  
293 Kelvin Cross Sections

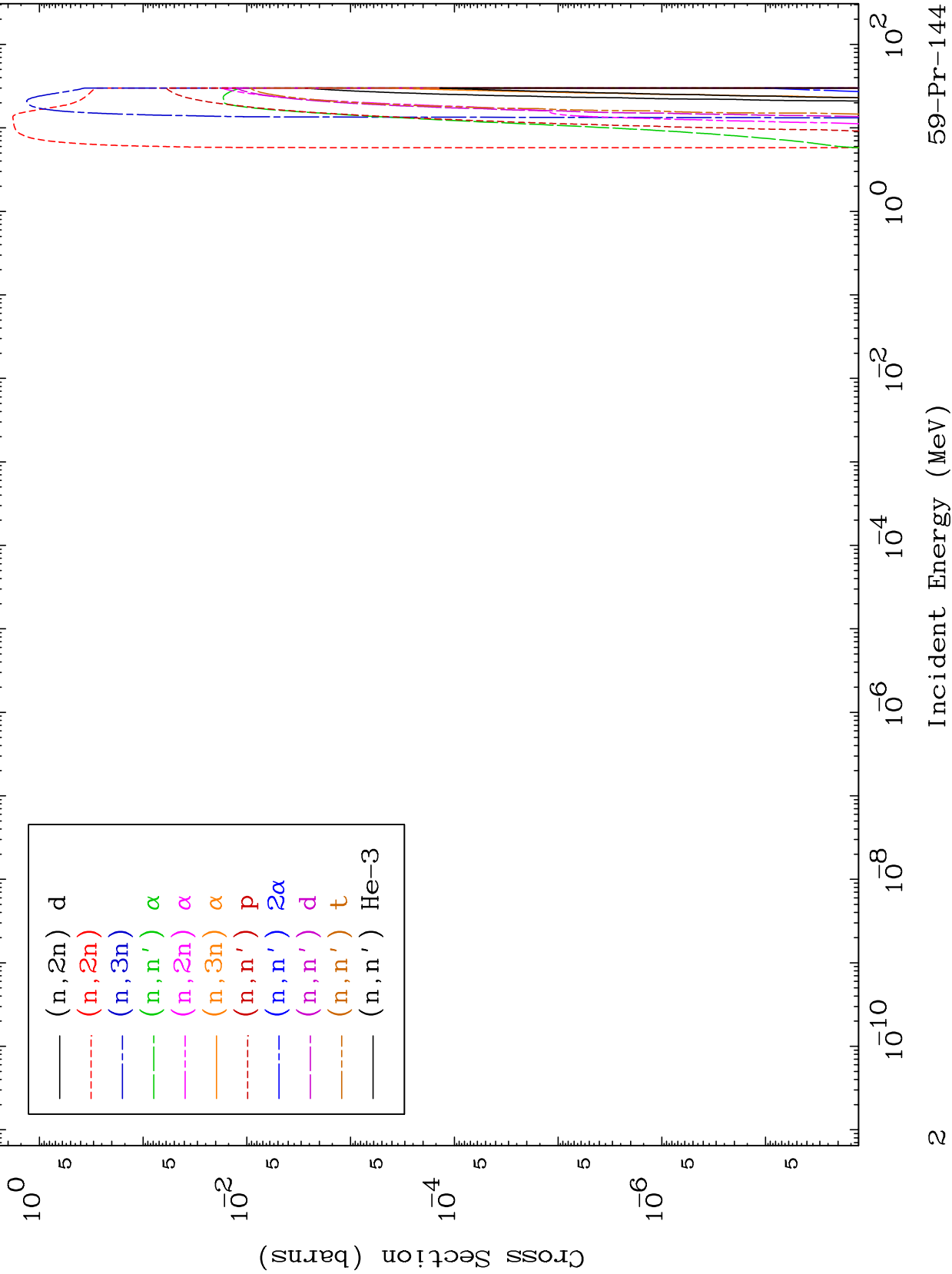
59-Pr-144



MAT 5934

Neutron Absorption  
293 Kelvin Cross Sections

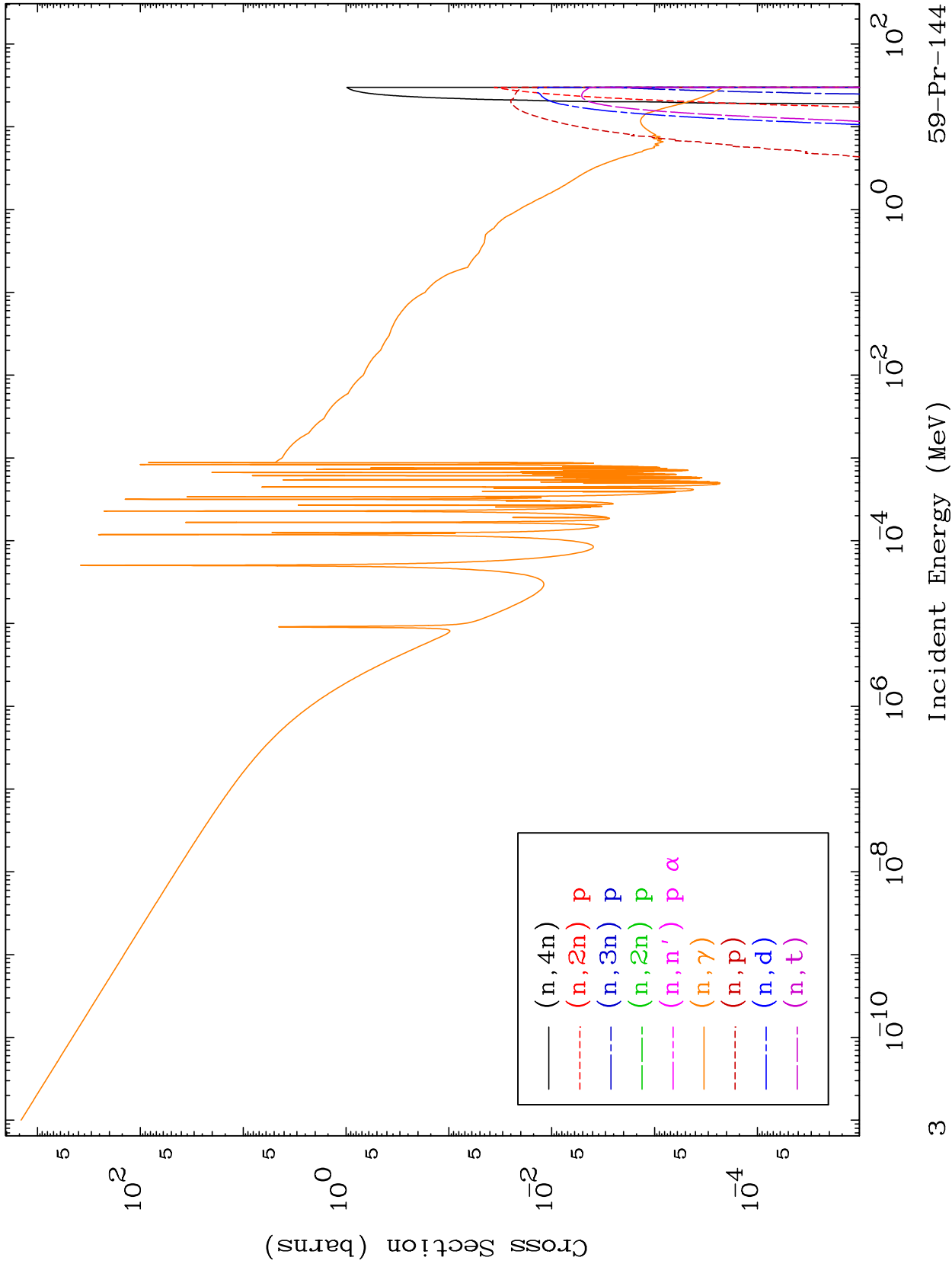
59-Pr-144



MAT 5934

Neutron Absorption  
293 Kelvin Cross Sections

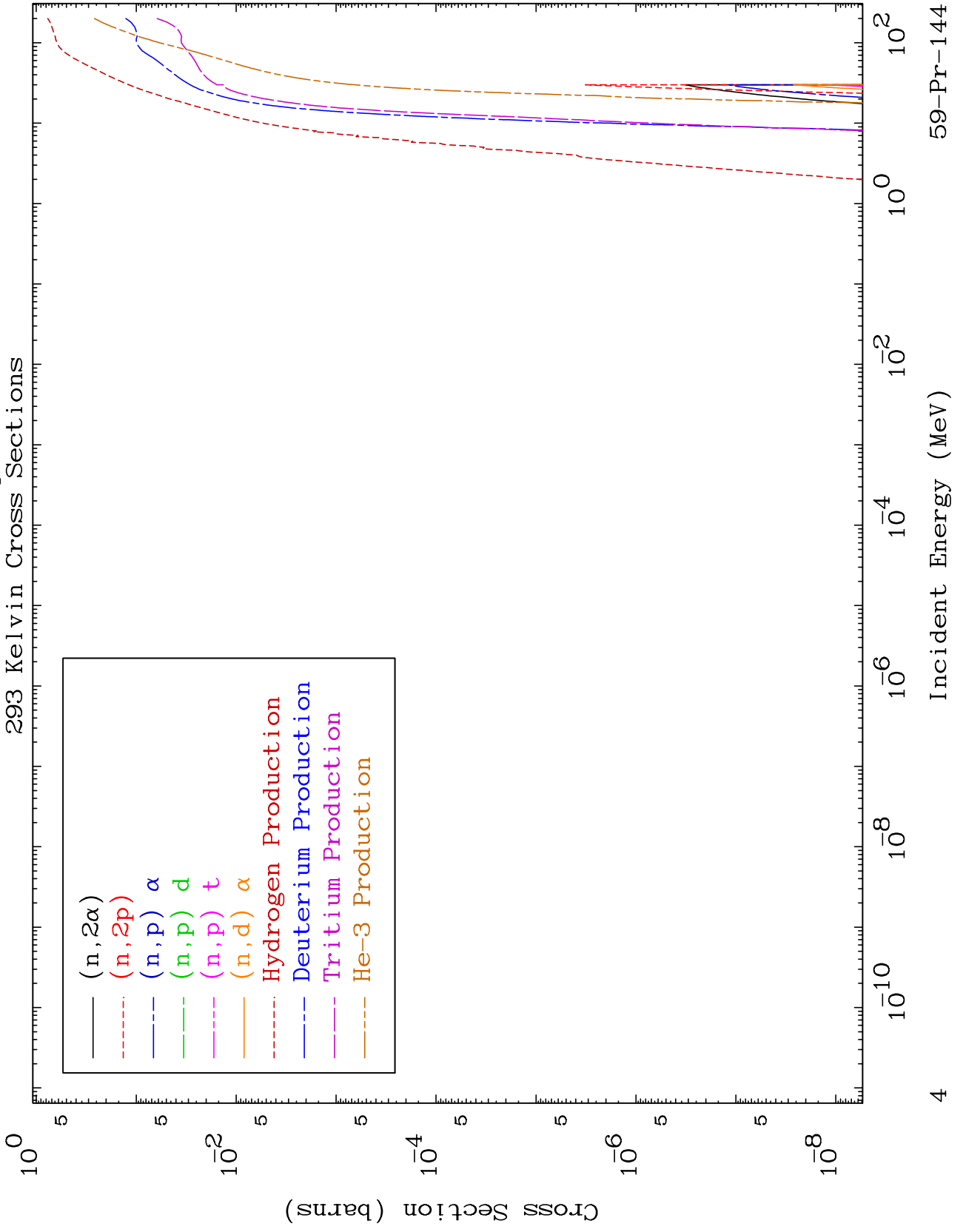
59-Pr-144

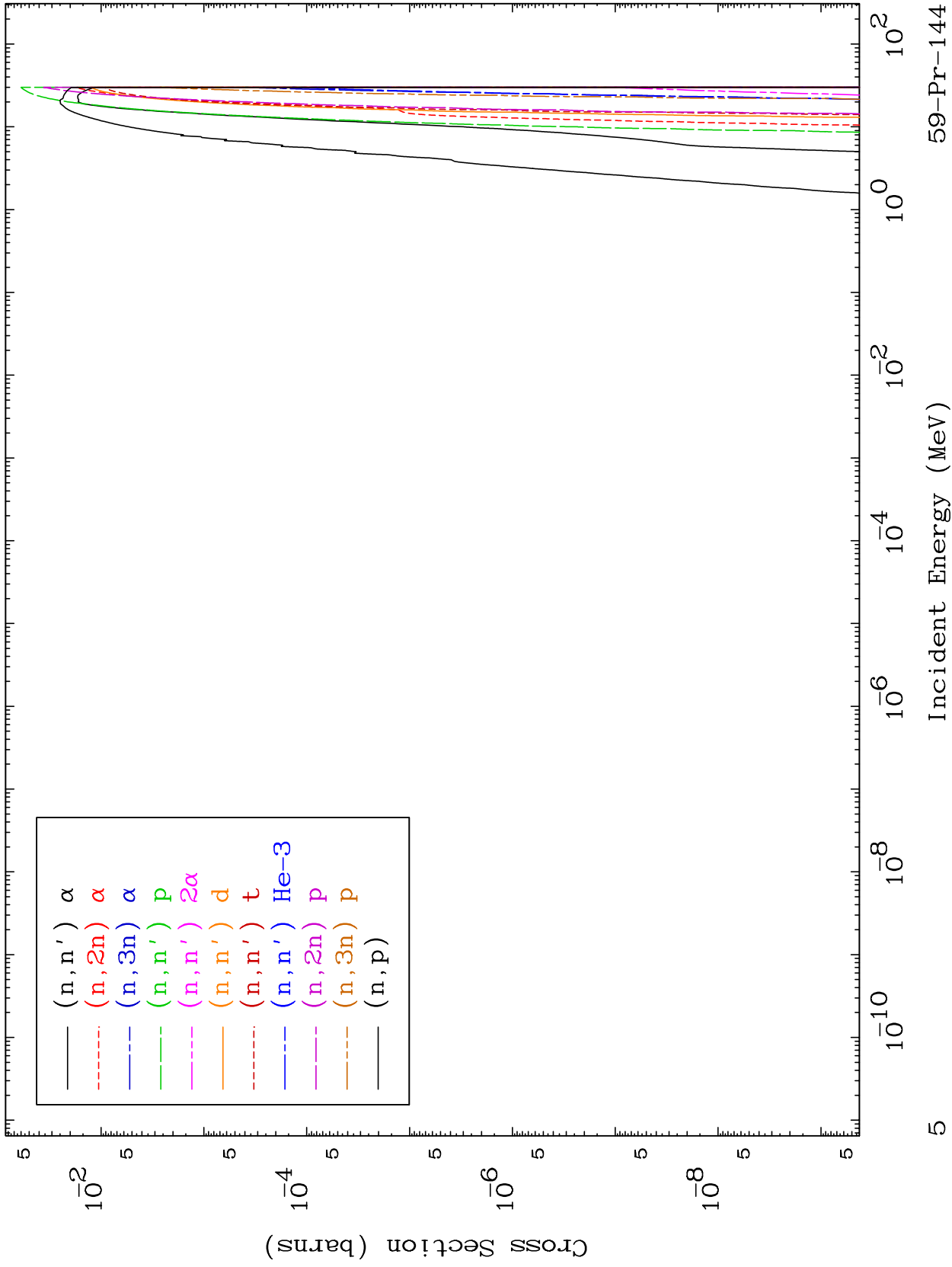


MAT 5934

Neutron Absorption  
293 Kelvin Cross Sections

59-Pr-144

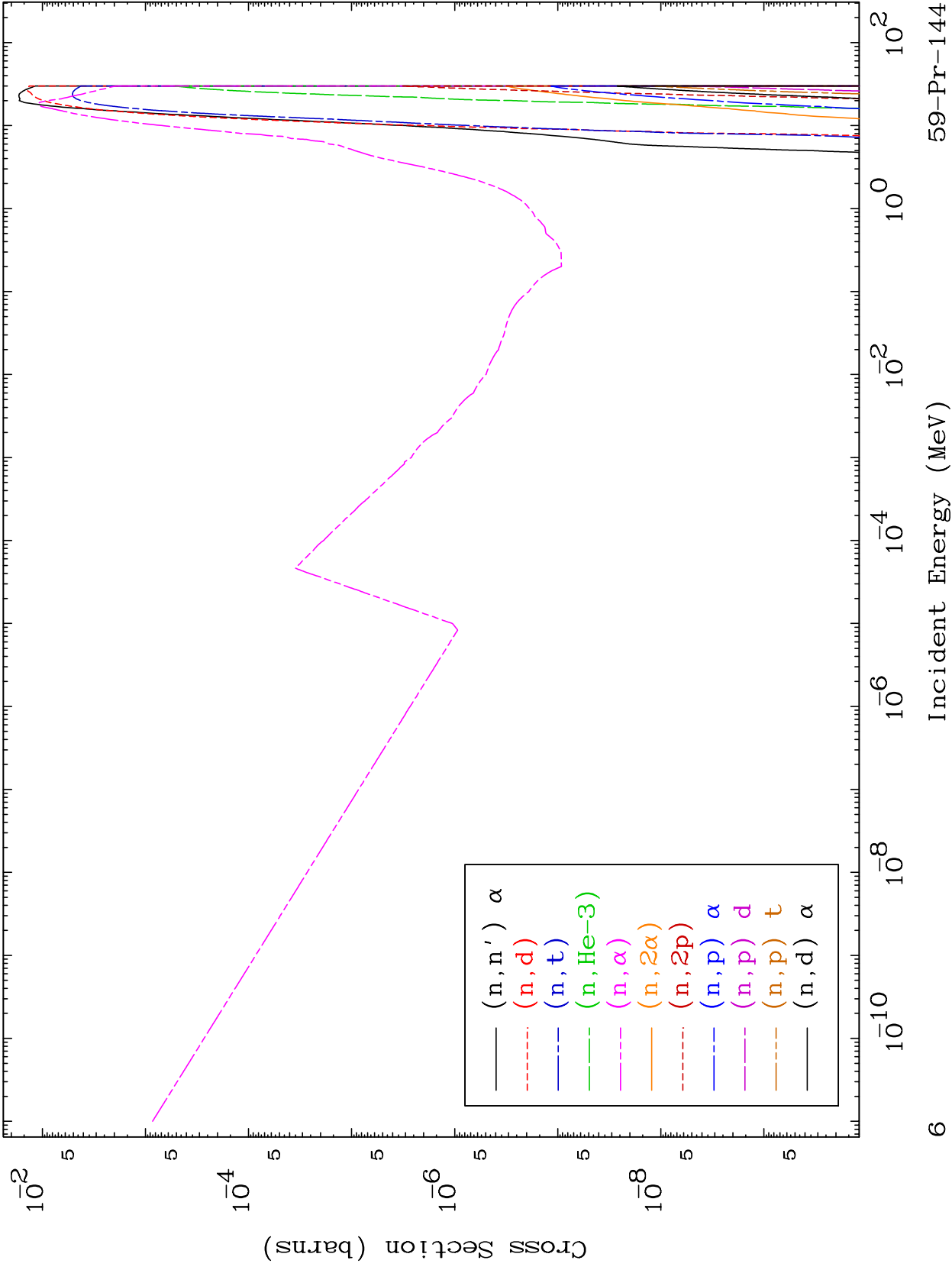




MAT 5934

Charged Particle  
293 Kelvin Cross Sections

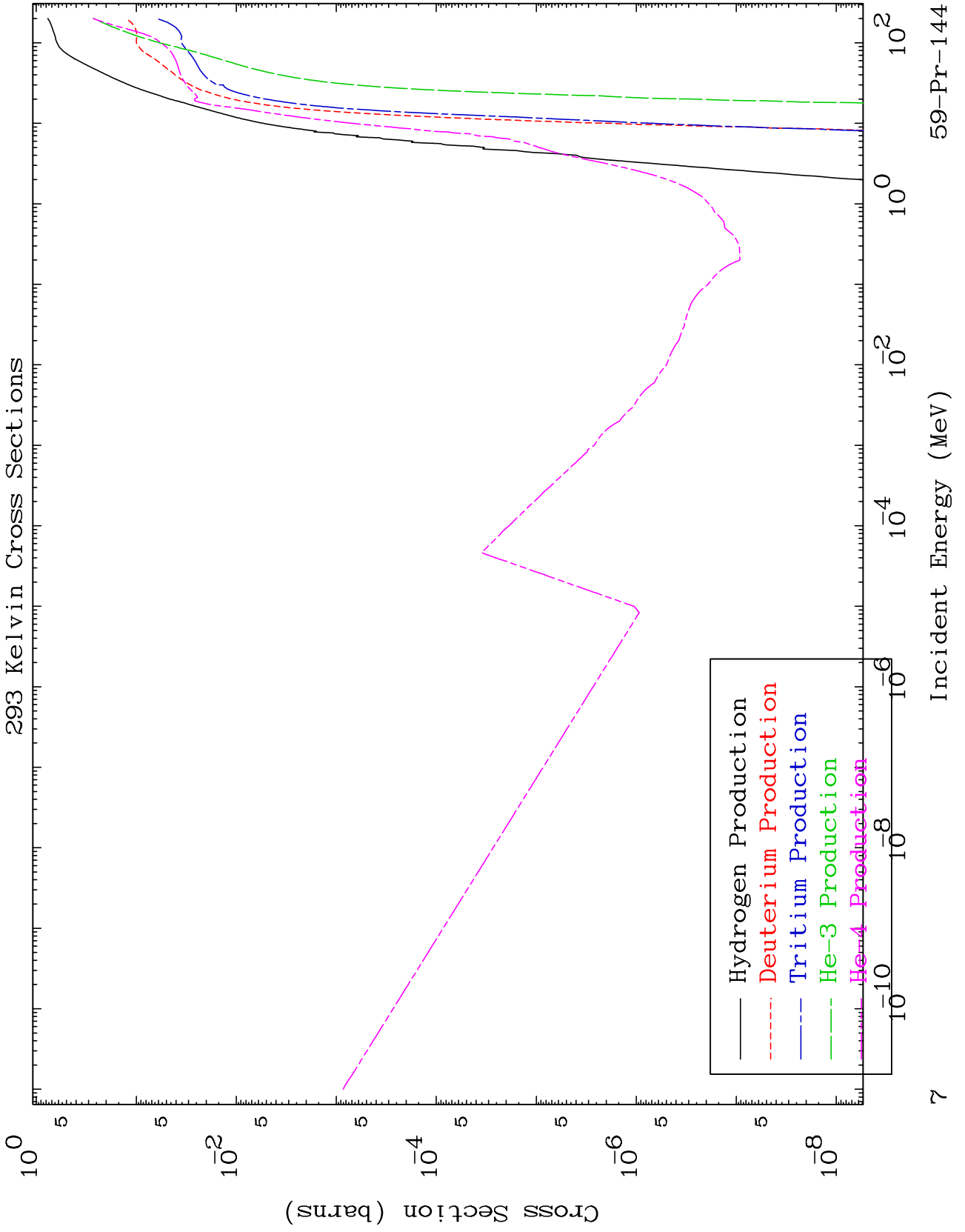
59-Pr-144



MAT 5934

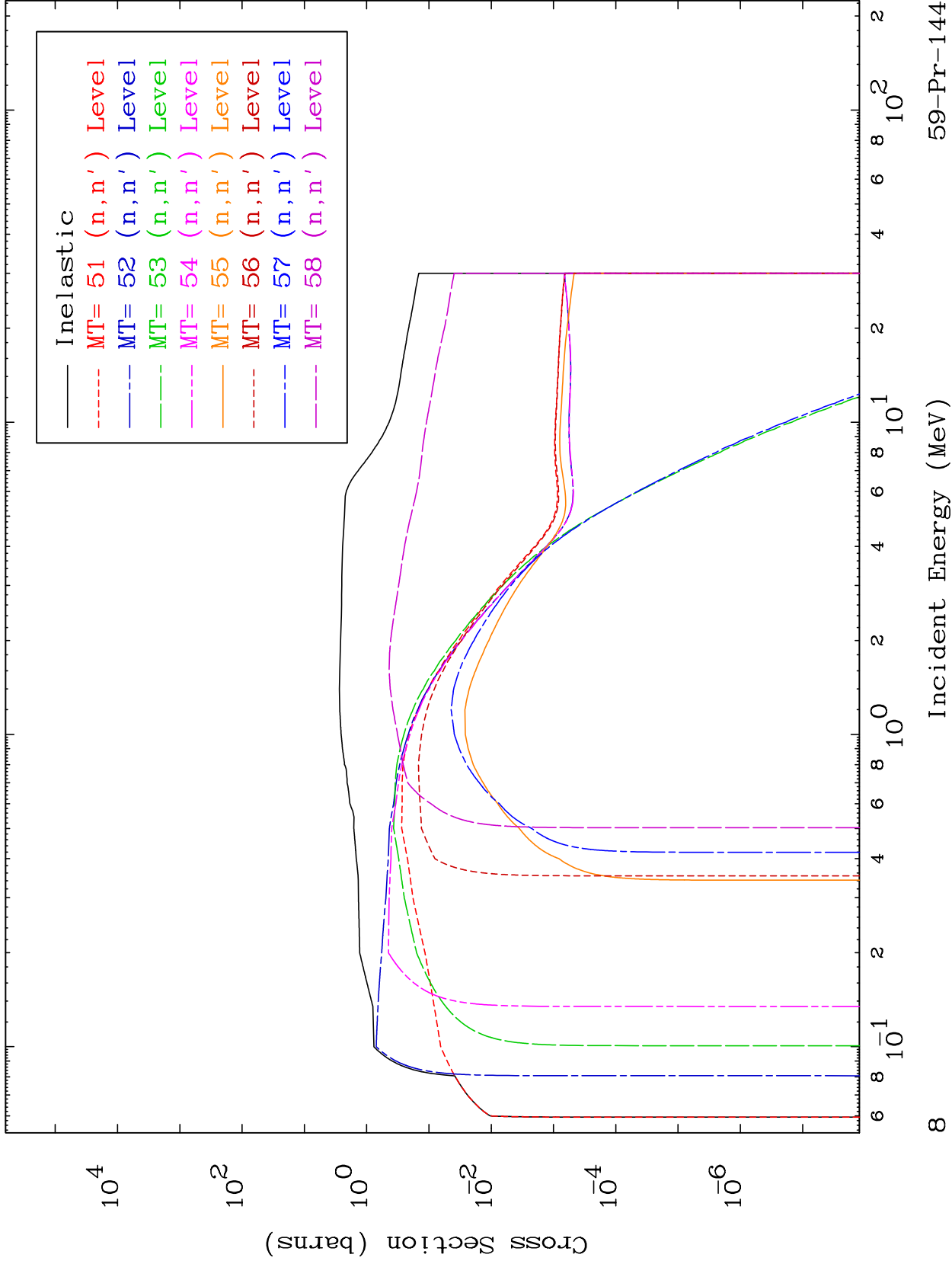
Particle Production  
293 Kelvin Cross Sections

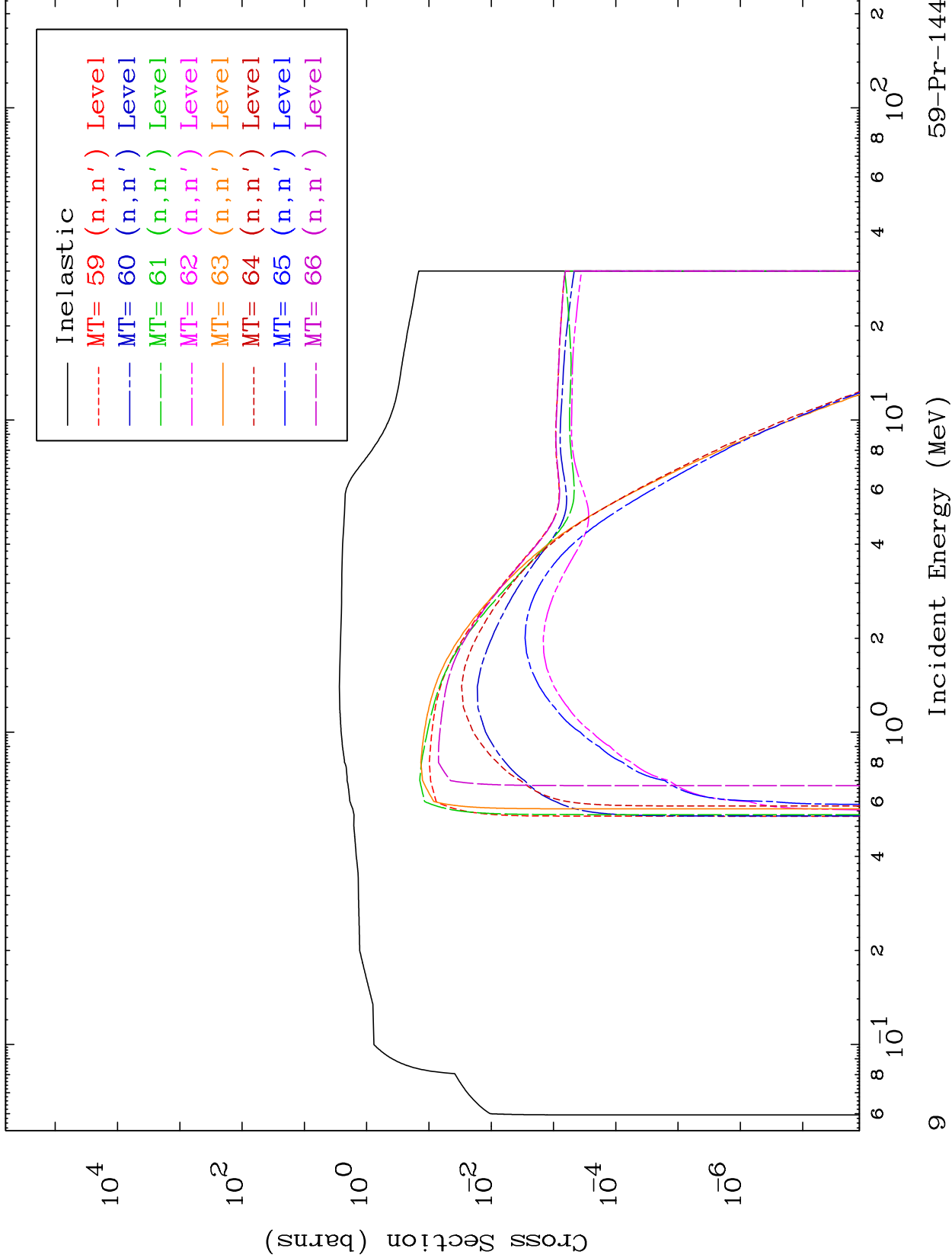
59-Pr-144





293 Kelvin Cross Sections



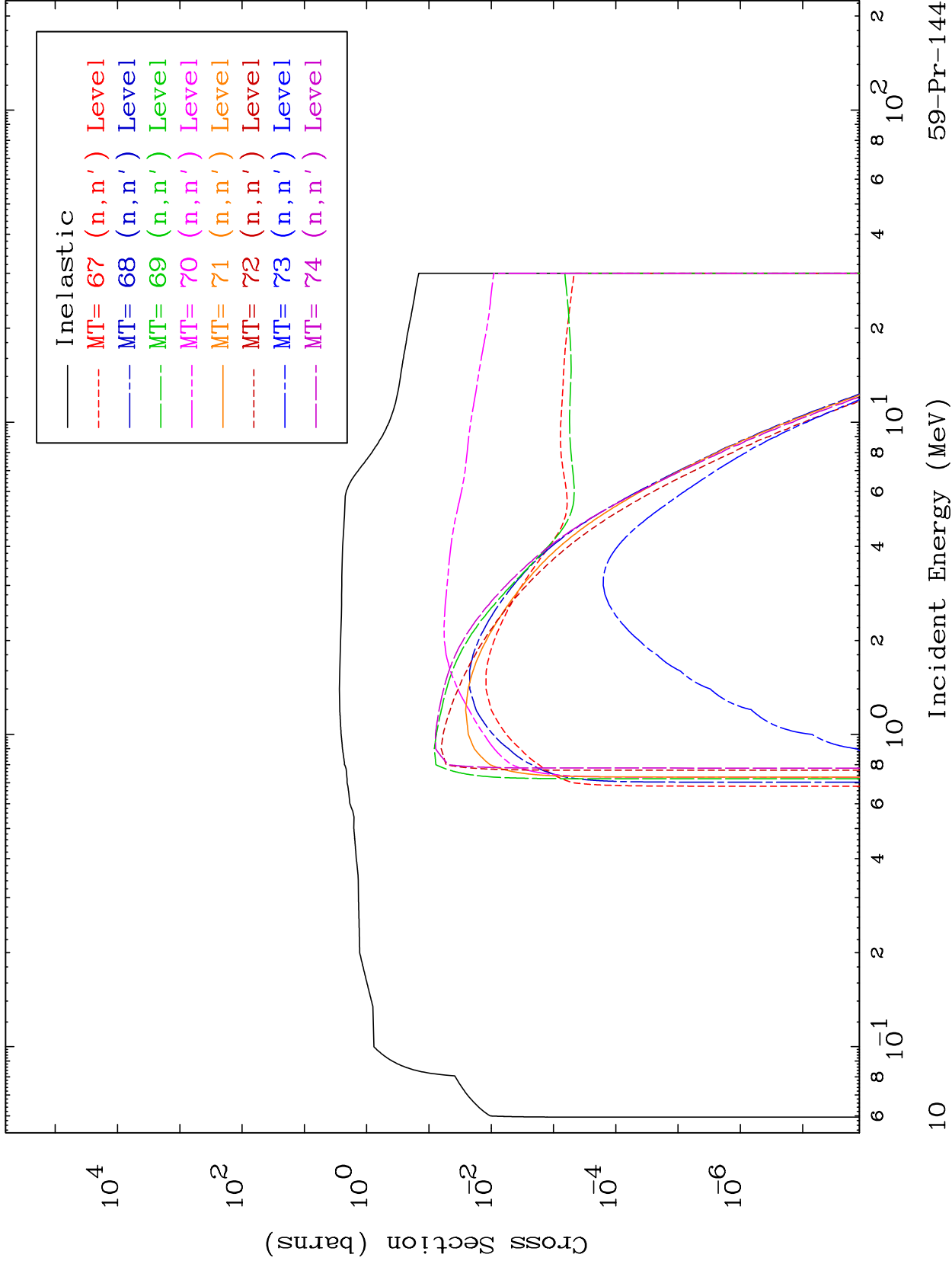


MAT 5934

(n,n') Levels

293 Kelvin Cross Sections

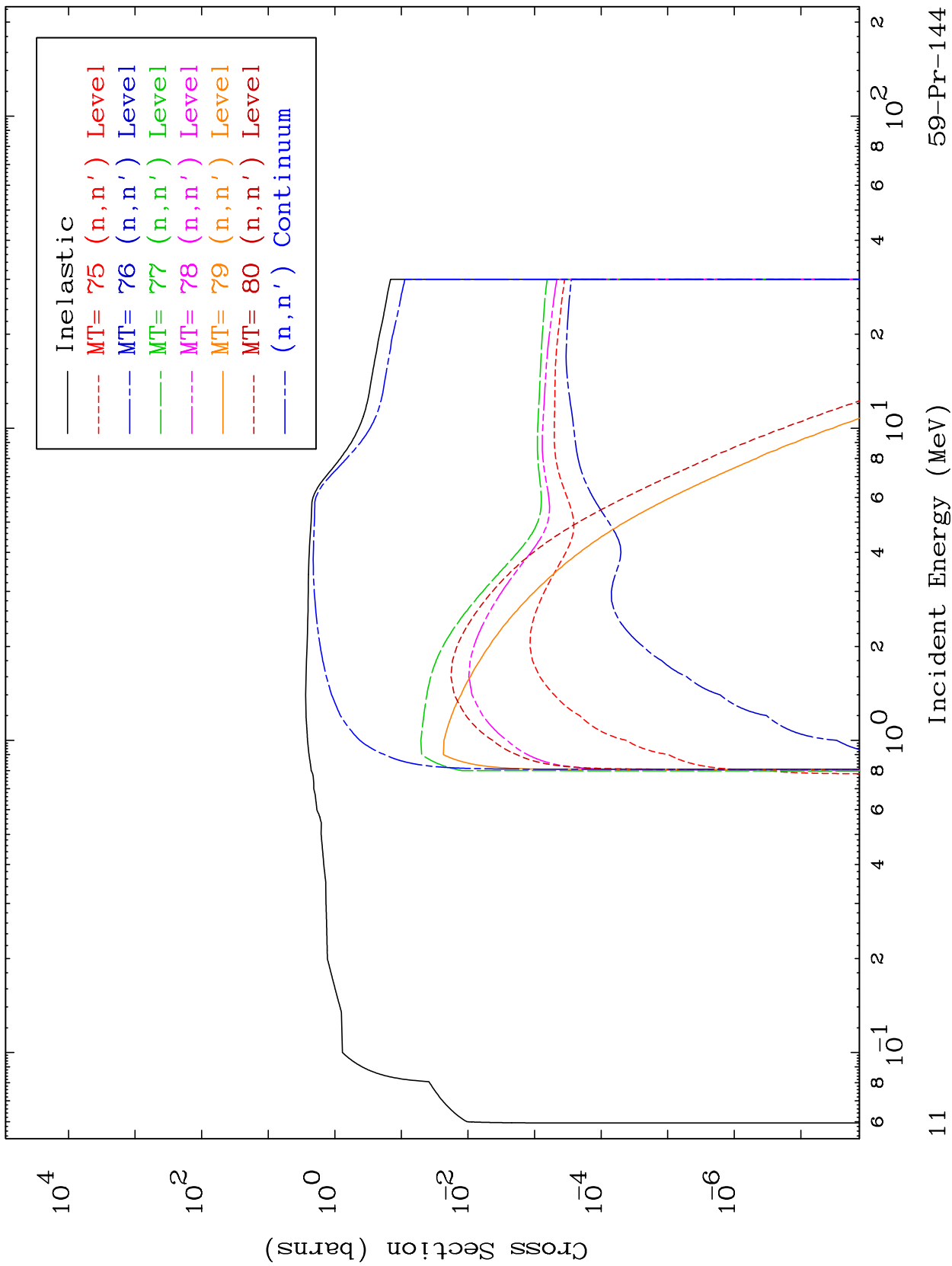
59-Pr-144



59-Pr-144

Incident Energy (MeV)

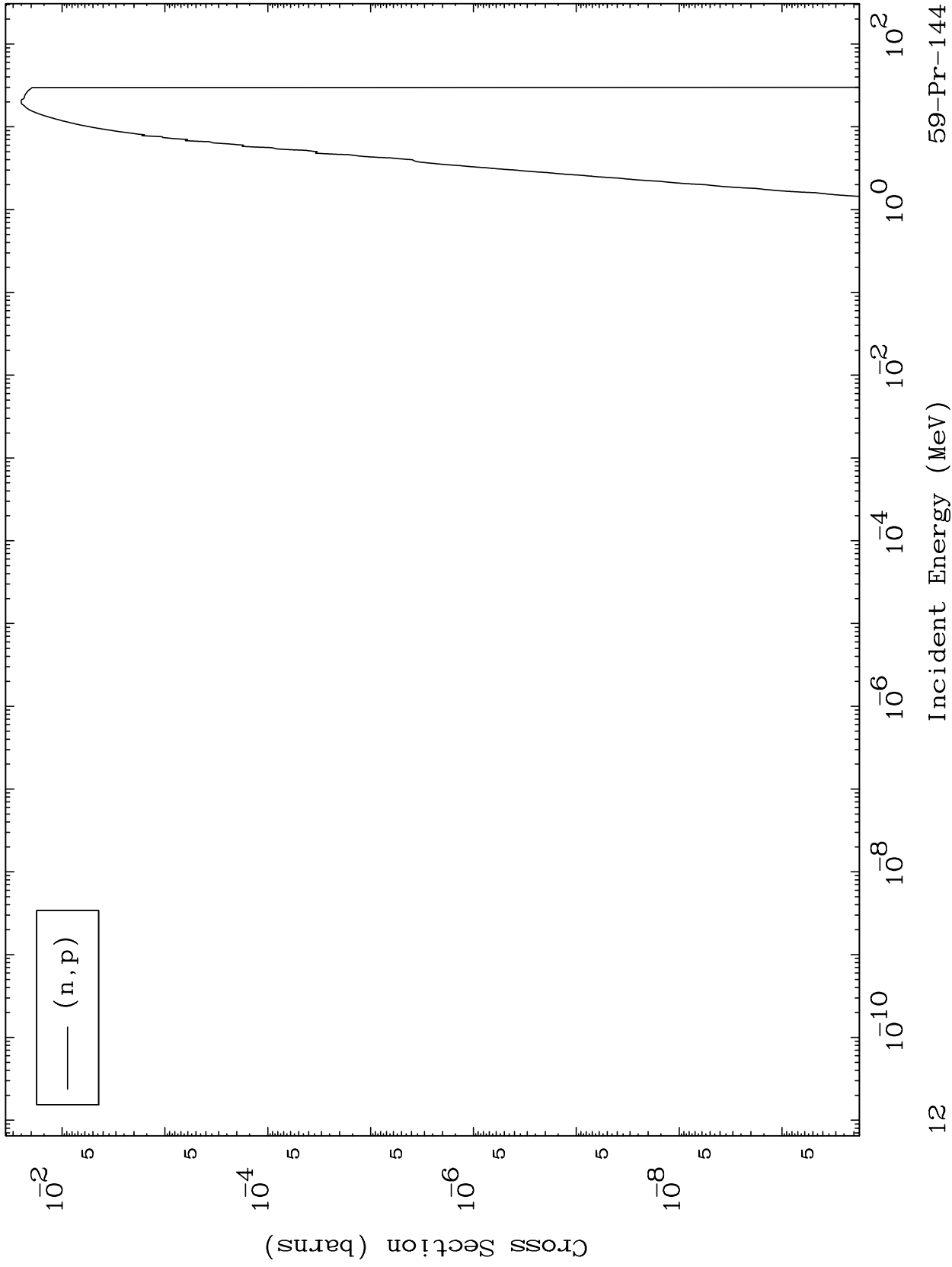
10

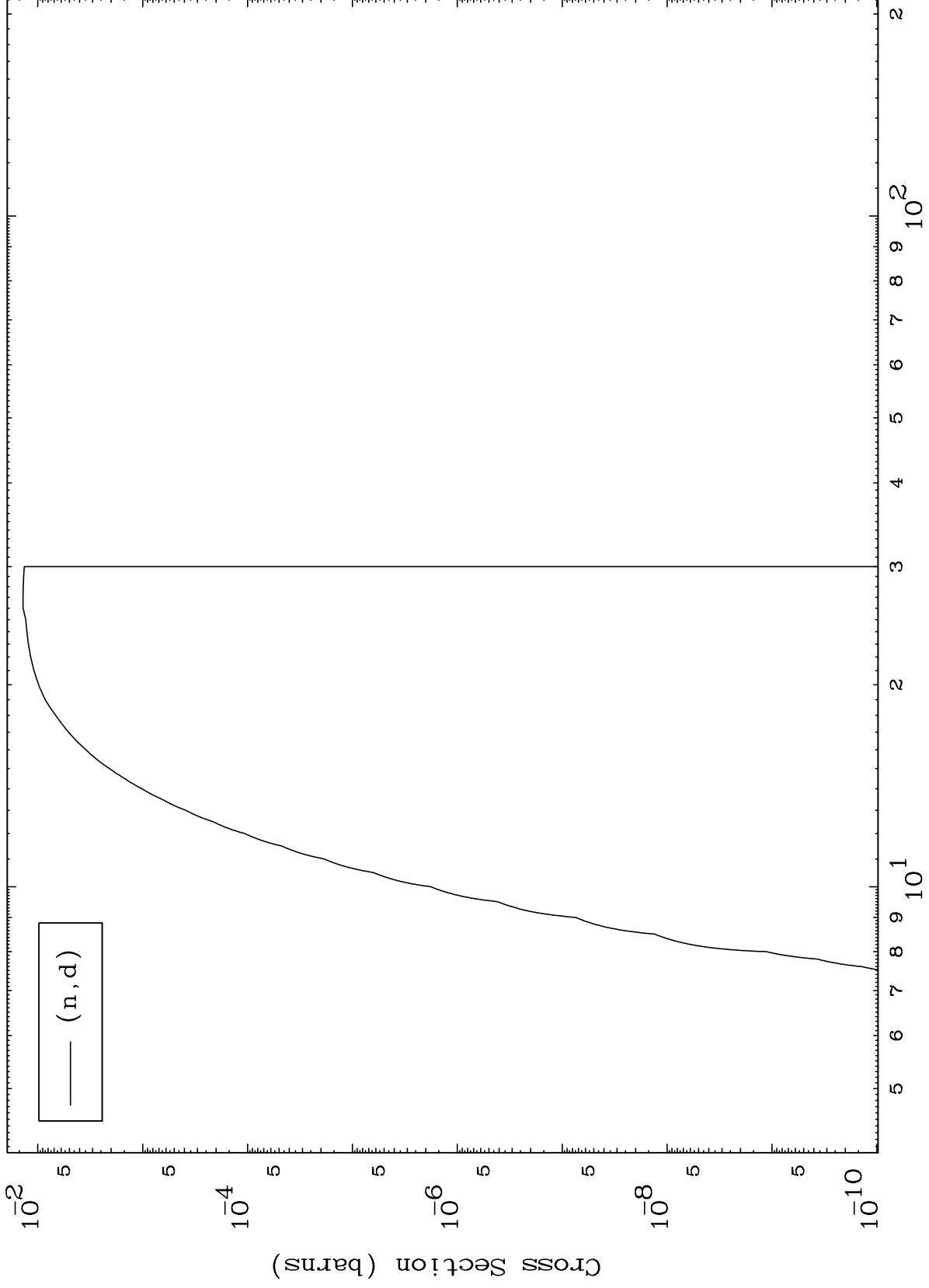


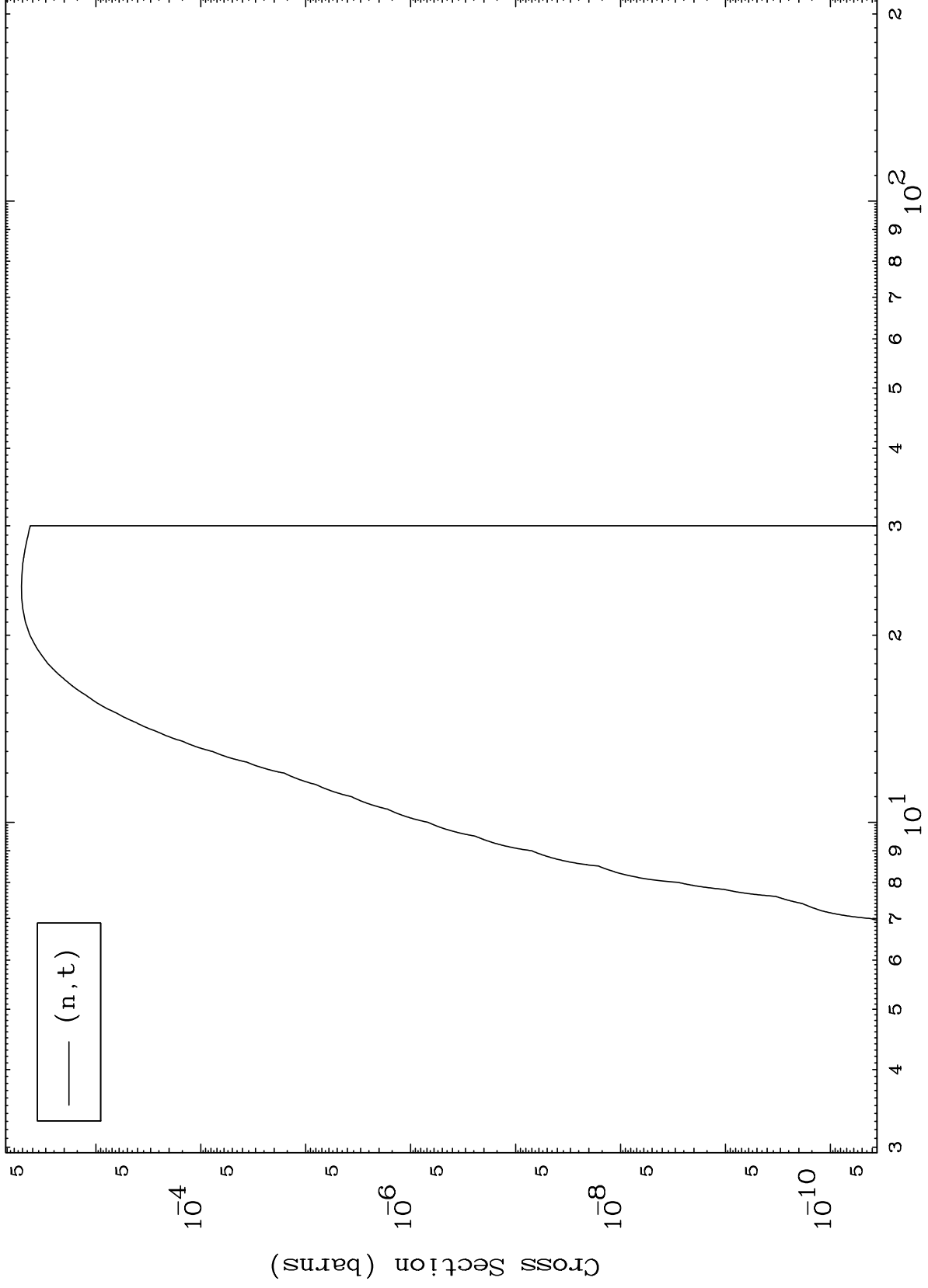
MAT 5934

(n,p) Levels  
293 Kelvin Cross Sections

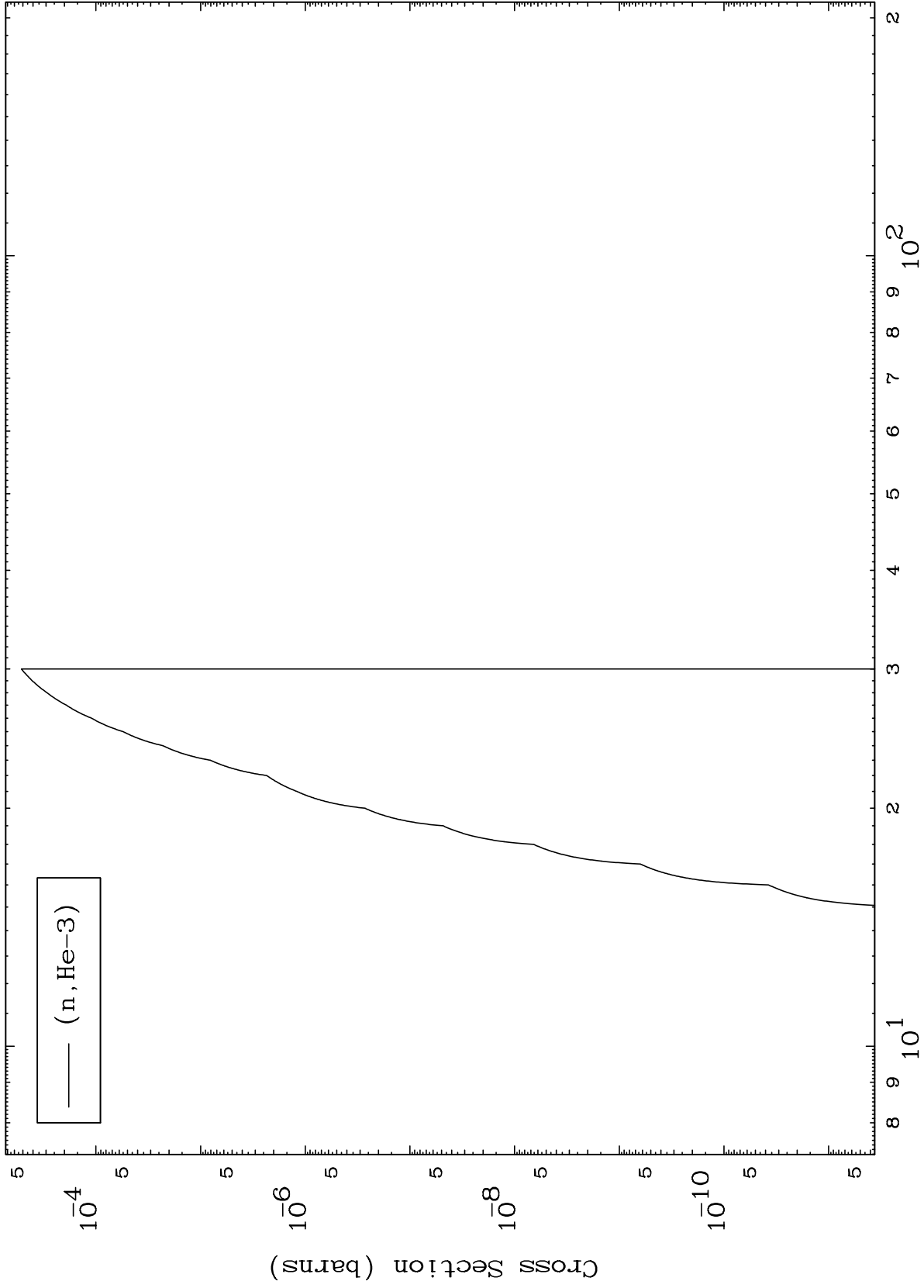
59-Pr-144







(n,He3) Levels  
293 Kelvin Cross Sections

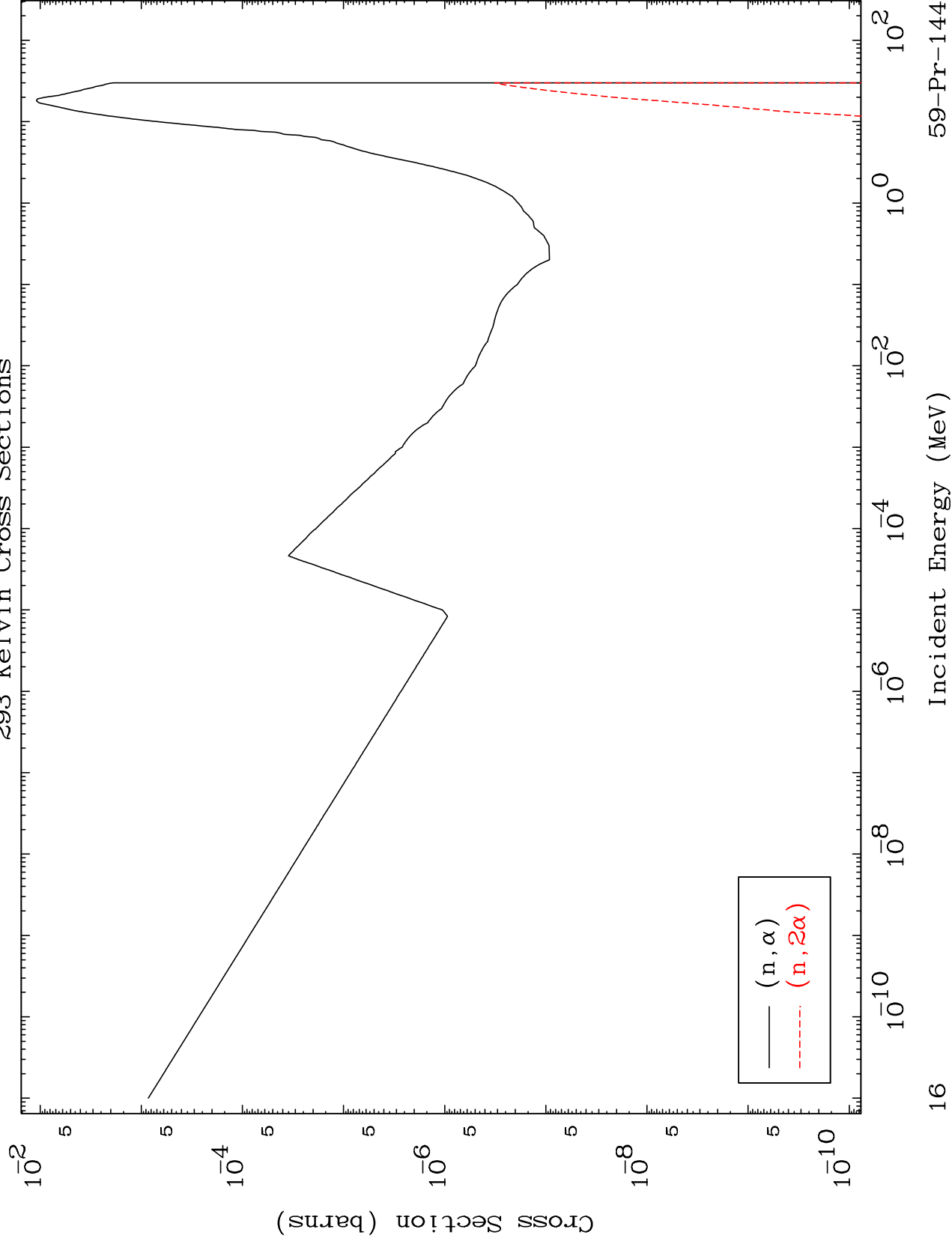




MAT 5934

(n,α) Levels  
293 Kelvin Cross Sections

59-Pr-144

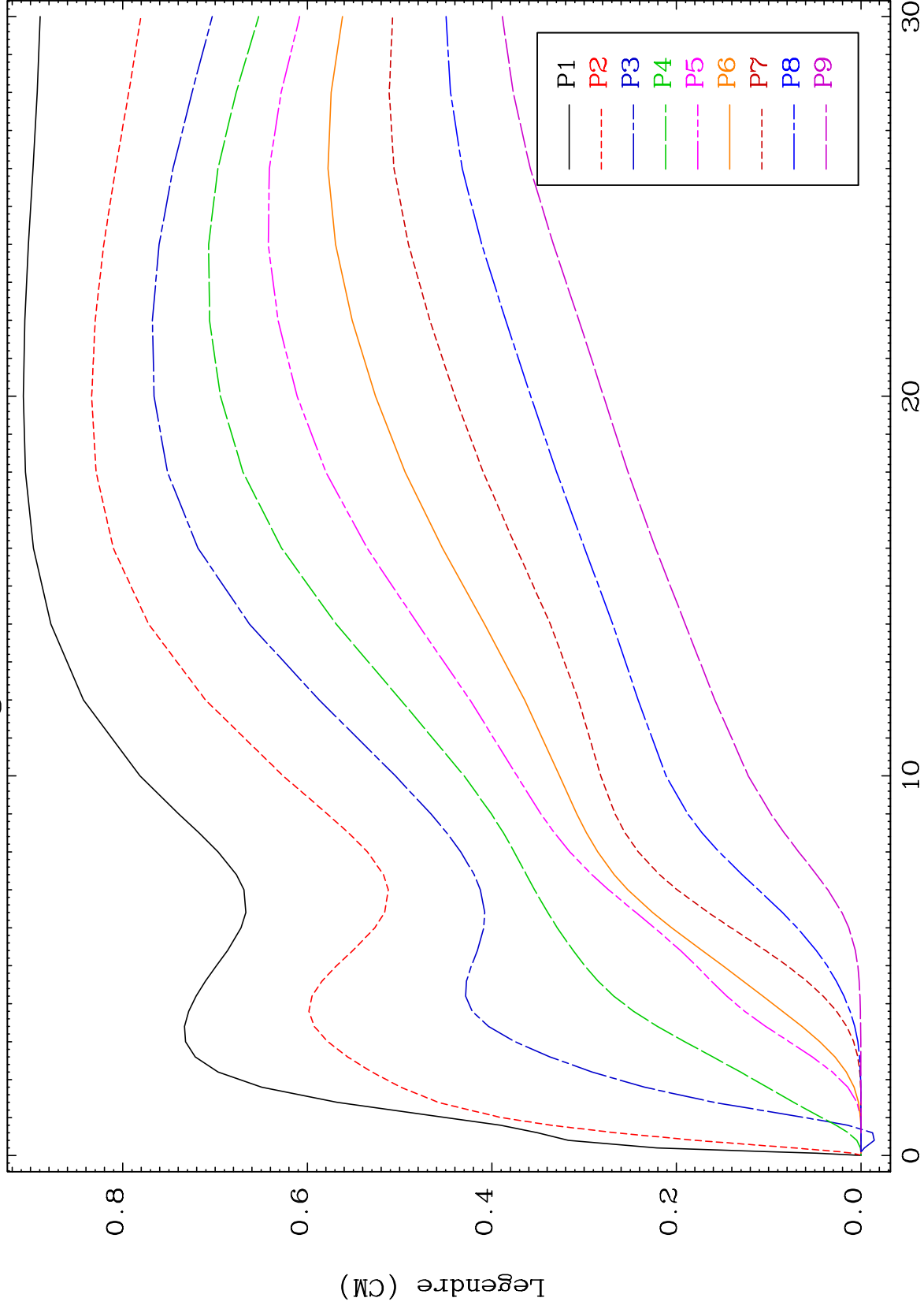


16

MAT 5934

Elastic Legendre Coefficients

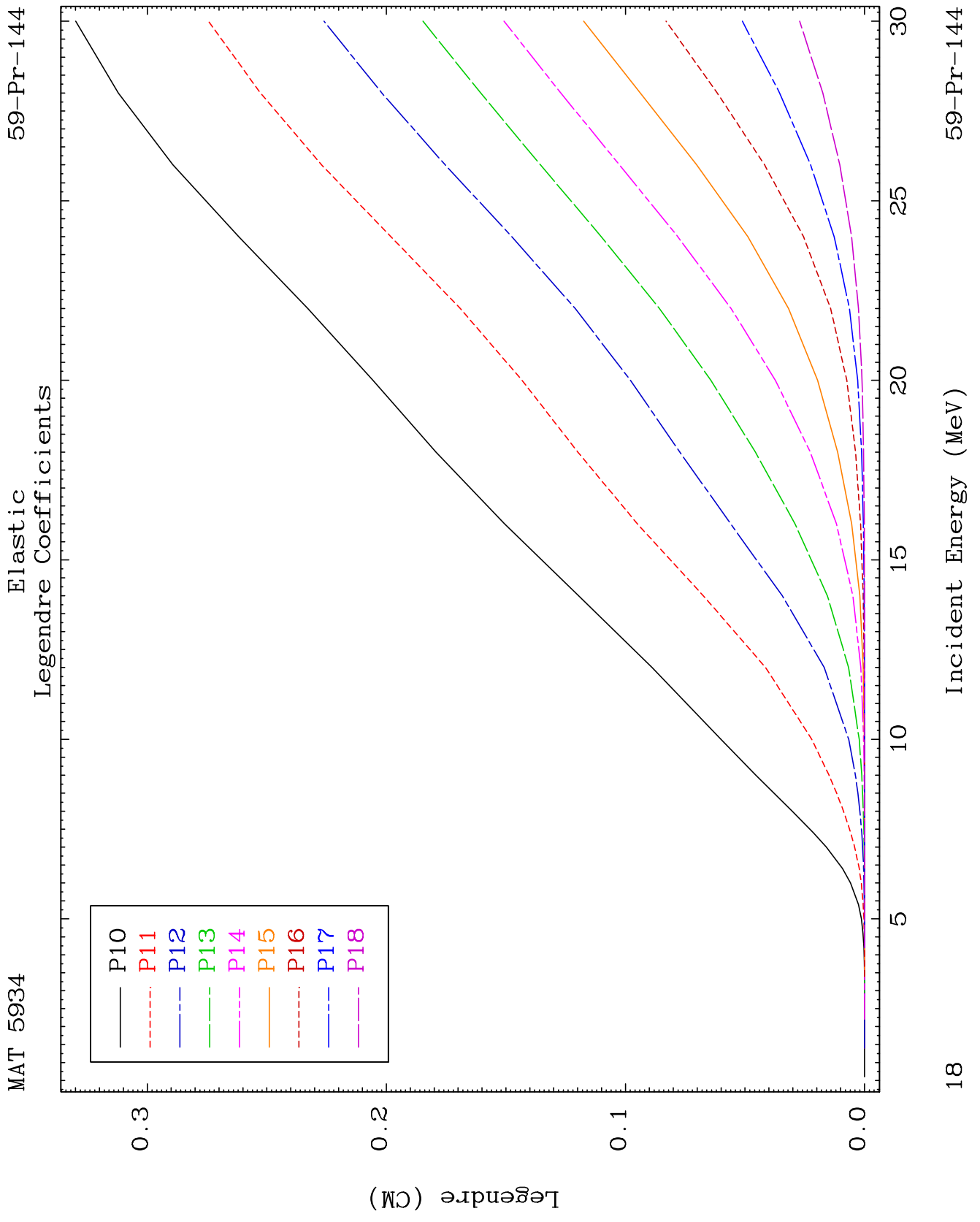
59-Pr-144



17

Incident Energy (MeV)

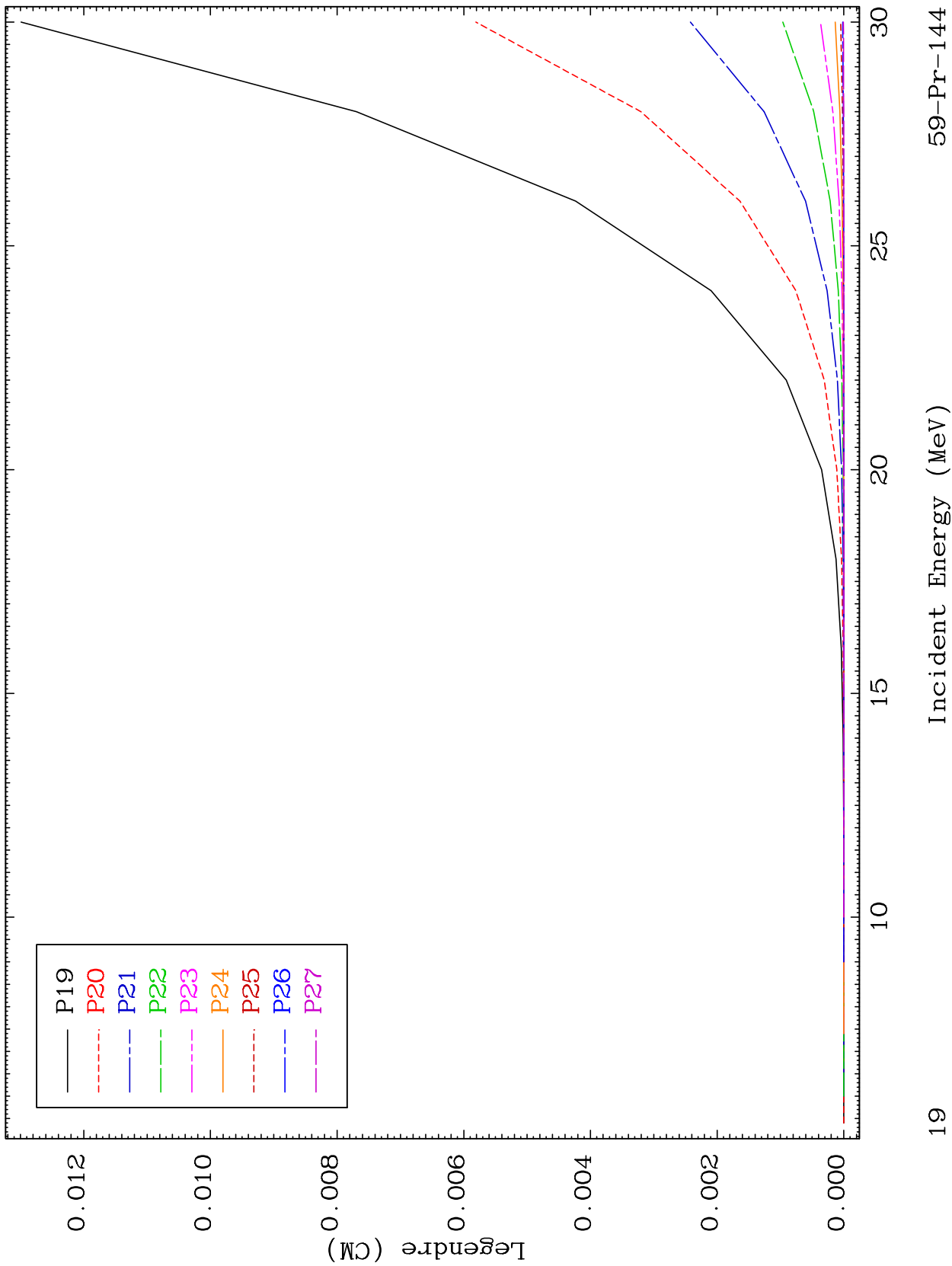
59-Pr-144



MAT 5934

### Elastic Legendre Coefficients

59-Pr-144



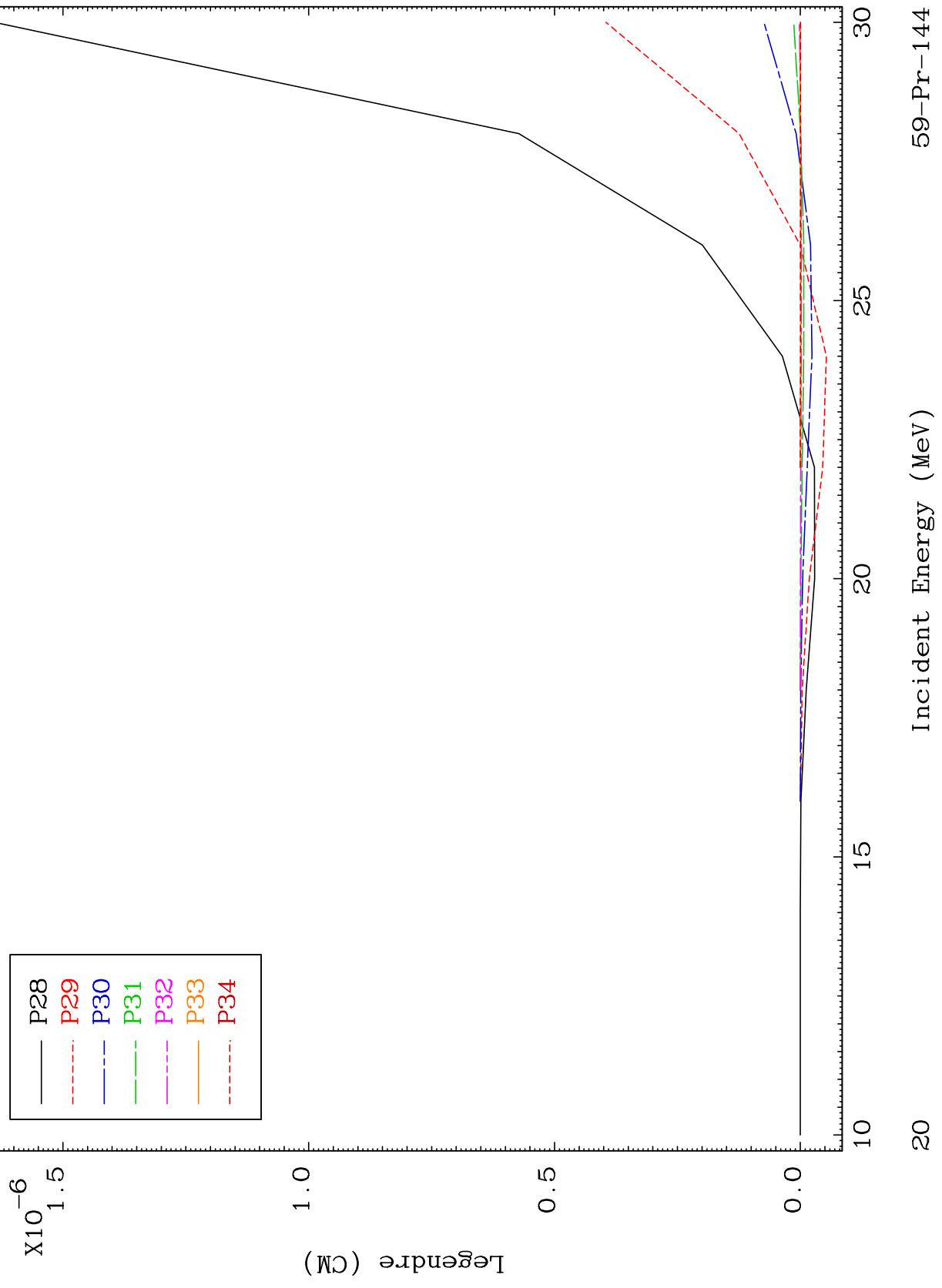
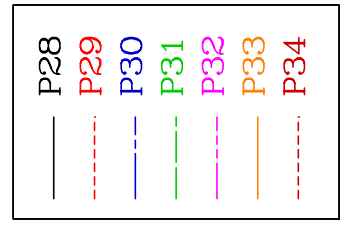
19

59-Pr-144

MAT 5934

Elastic Legendre Coefficients

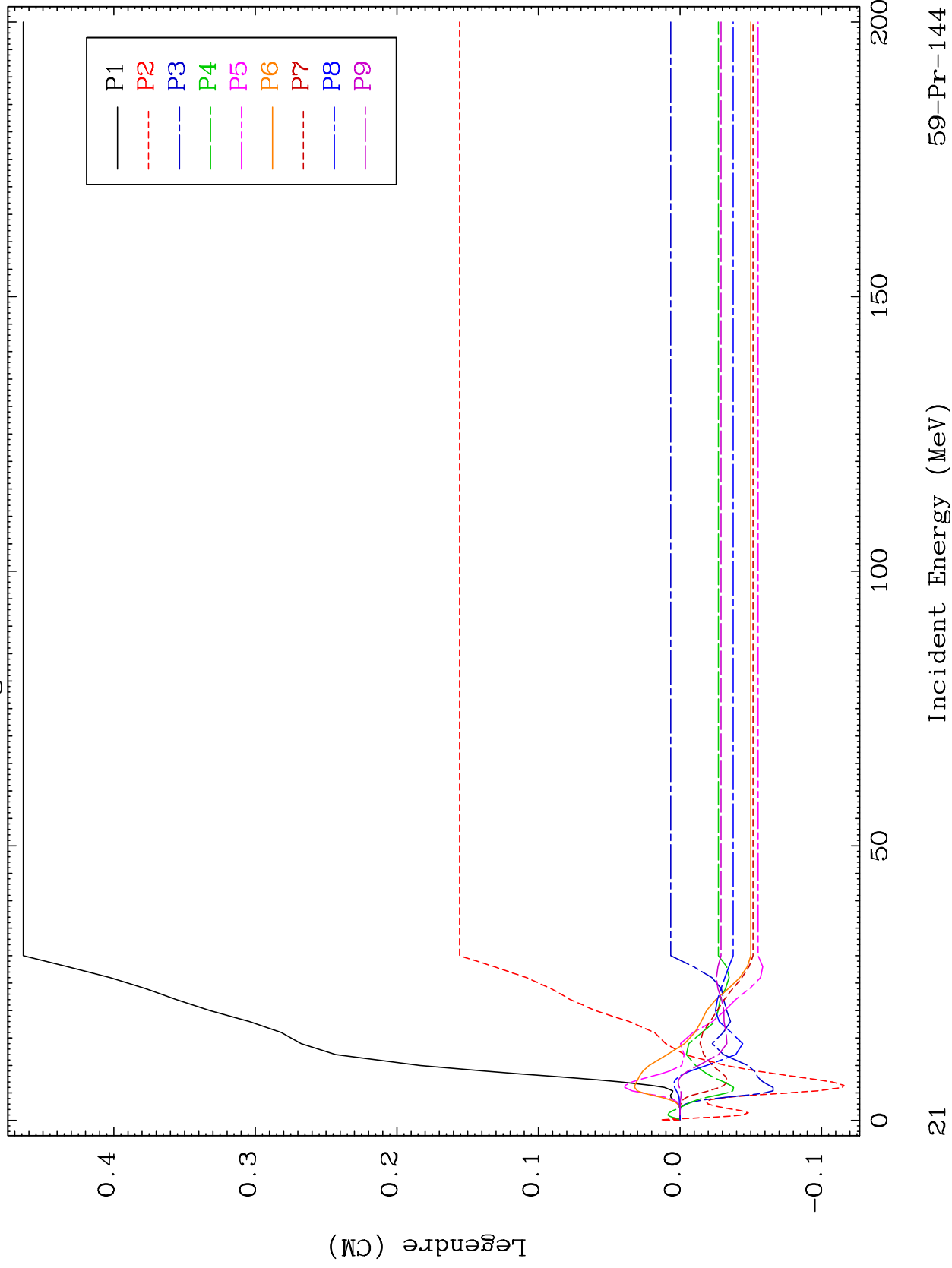
59-Pr-144



MAT 5934

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

59-Pr-144



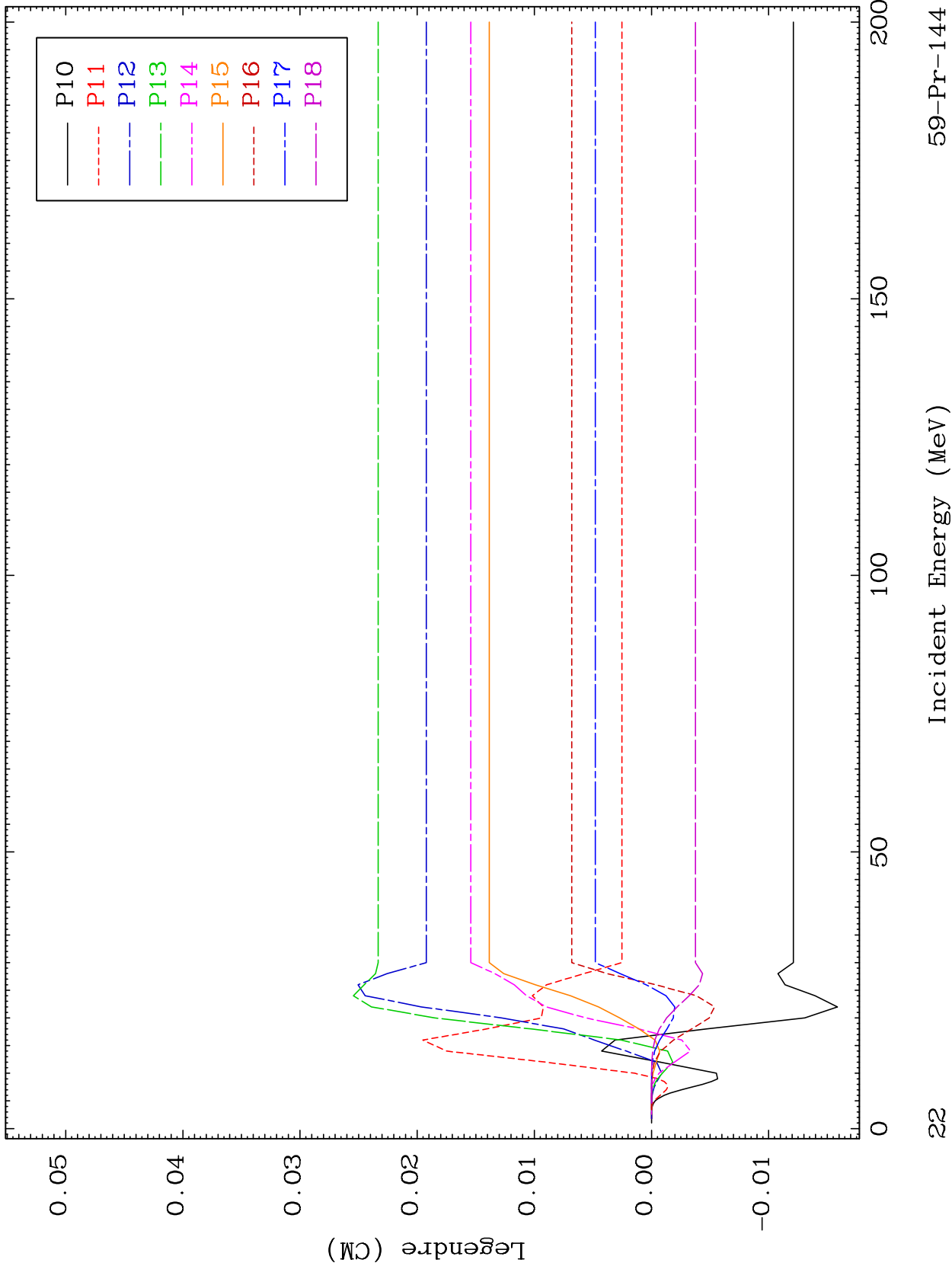
21

59-Pr-144

MAT 5934

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

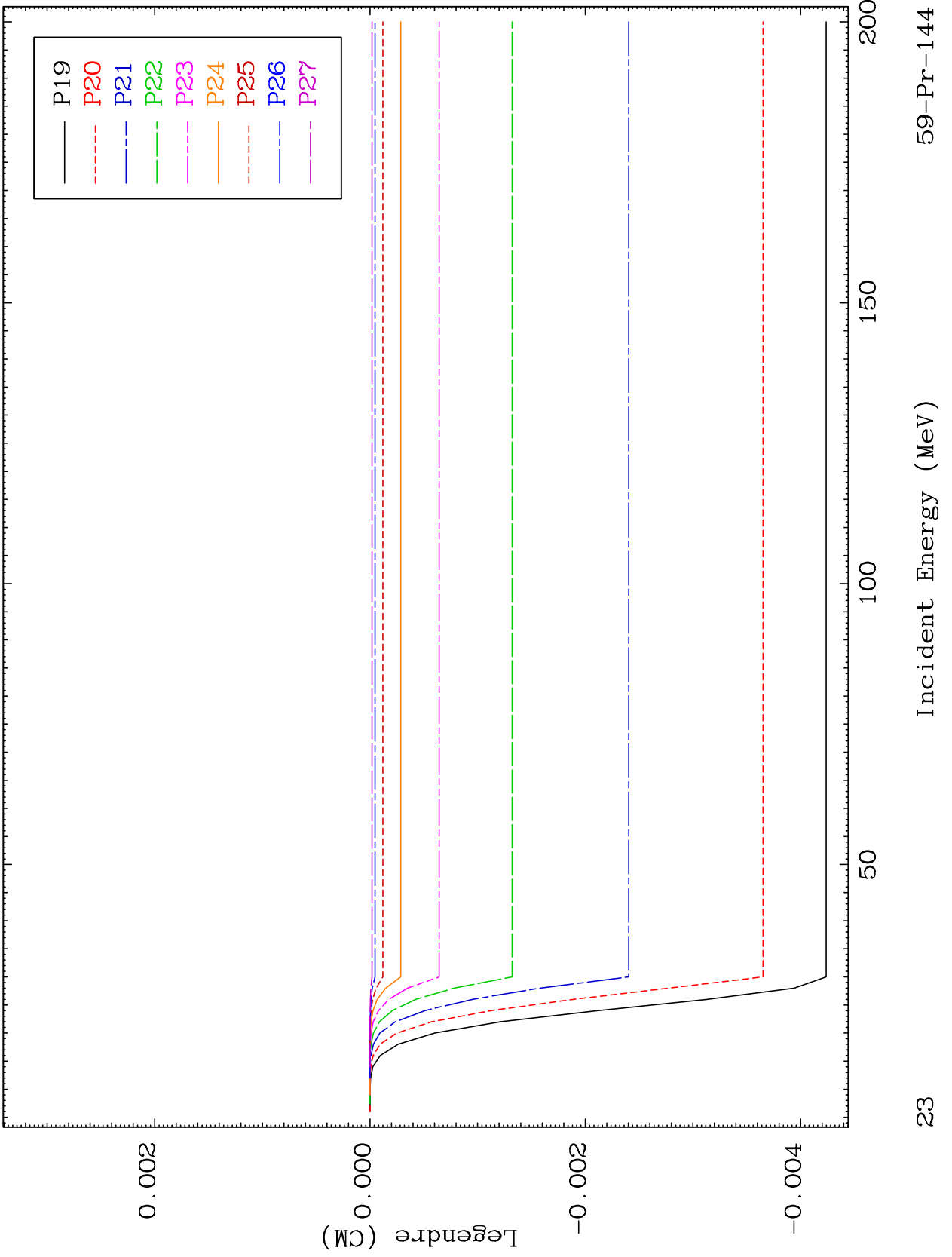
59-Pr-144



22

Incident Energy (MeV)

59-Pr-144

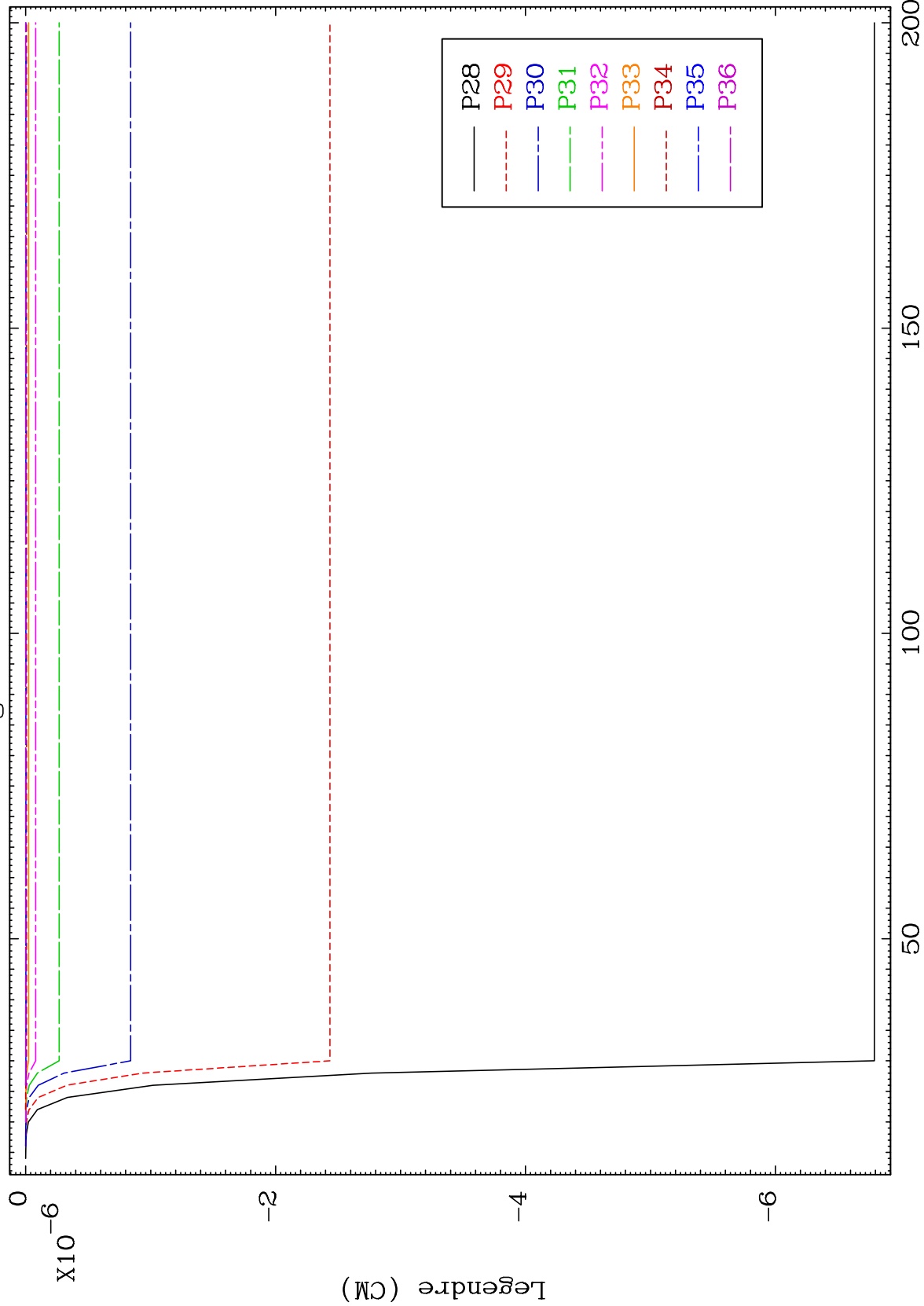




MAT 5934

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

59-Pr-144



24

Incident Energy (MeV)

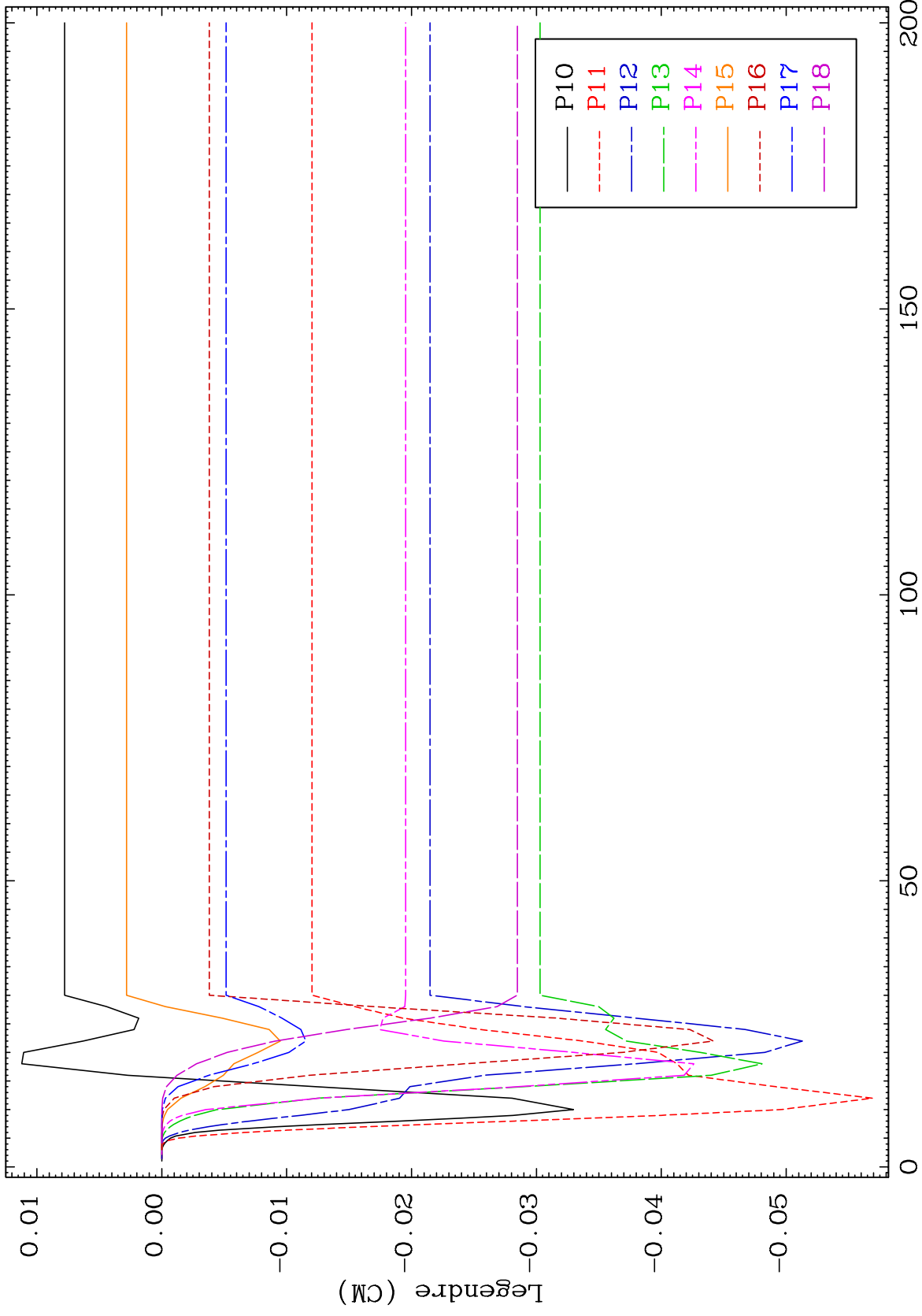
59-Pr-144



MAT 5934

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

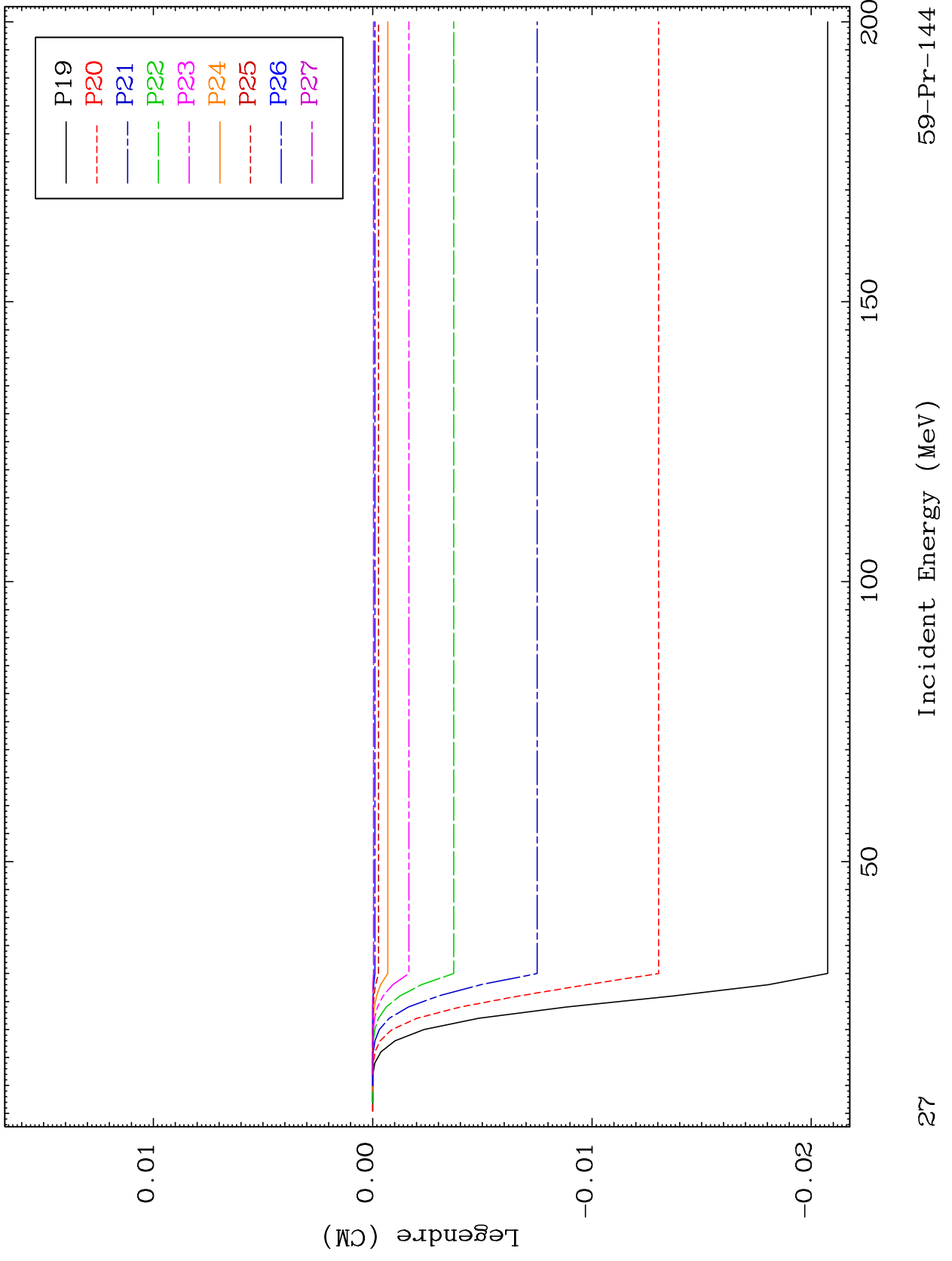
59-Pr-144



26

Incident Energy (MeV)

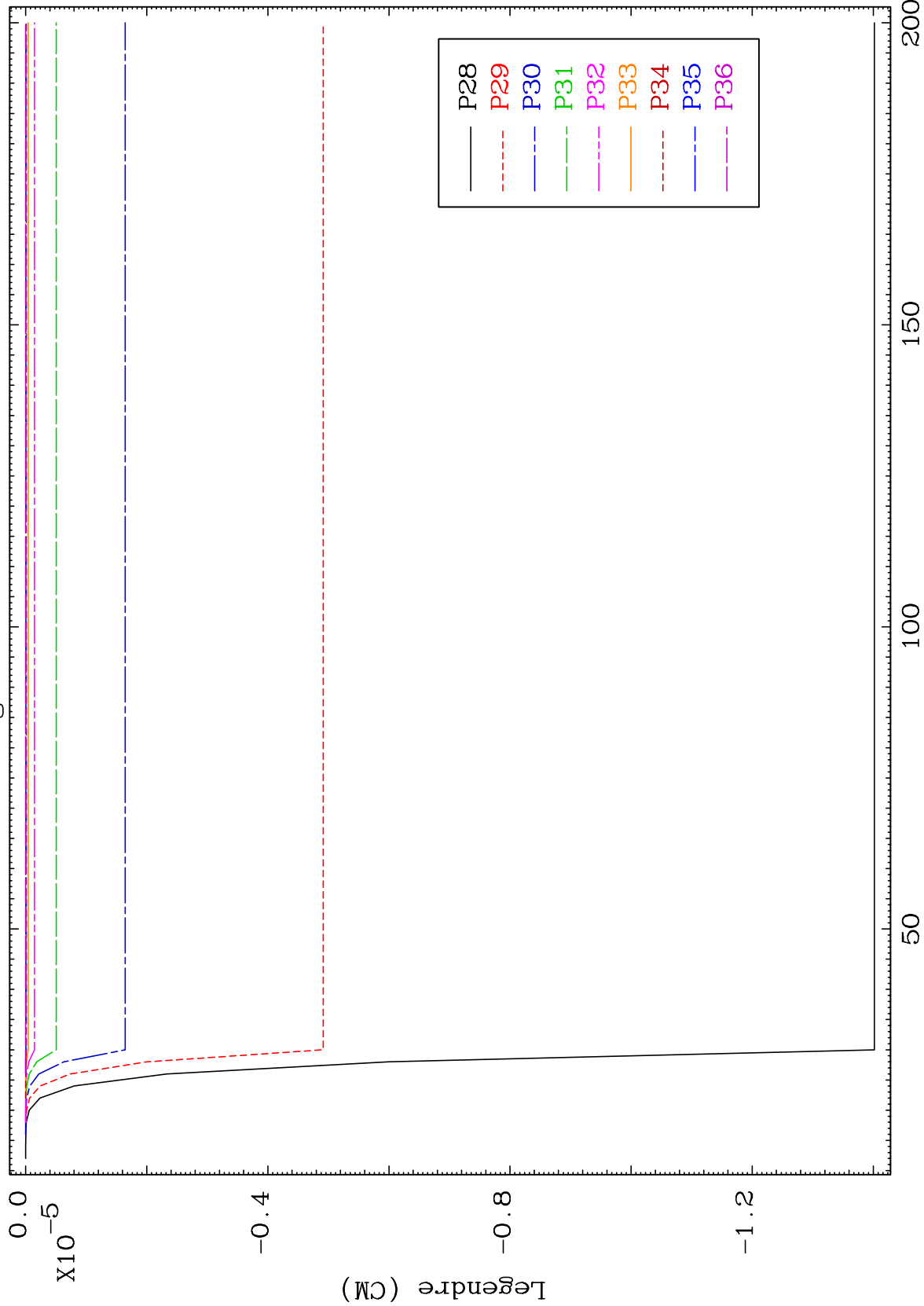
59-Pr-144



MAT 5934

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

59-Pr-144



28

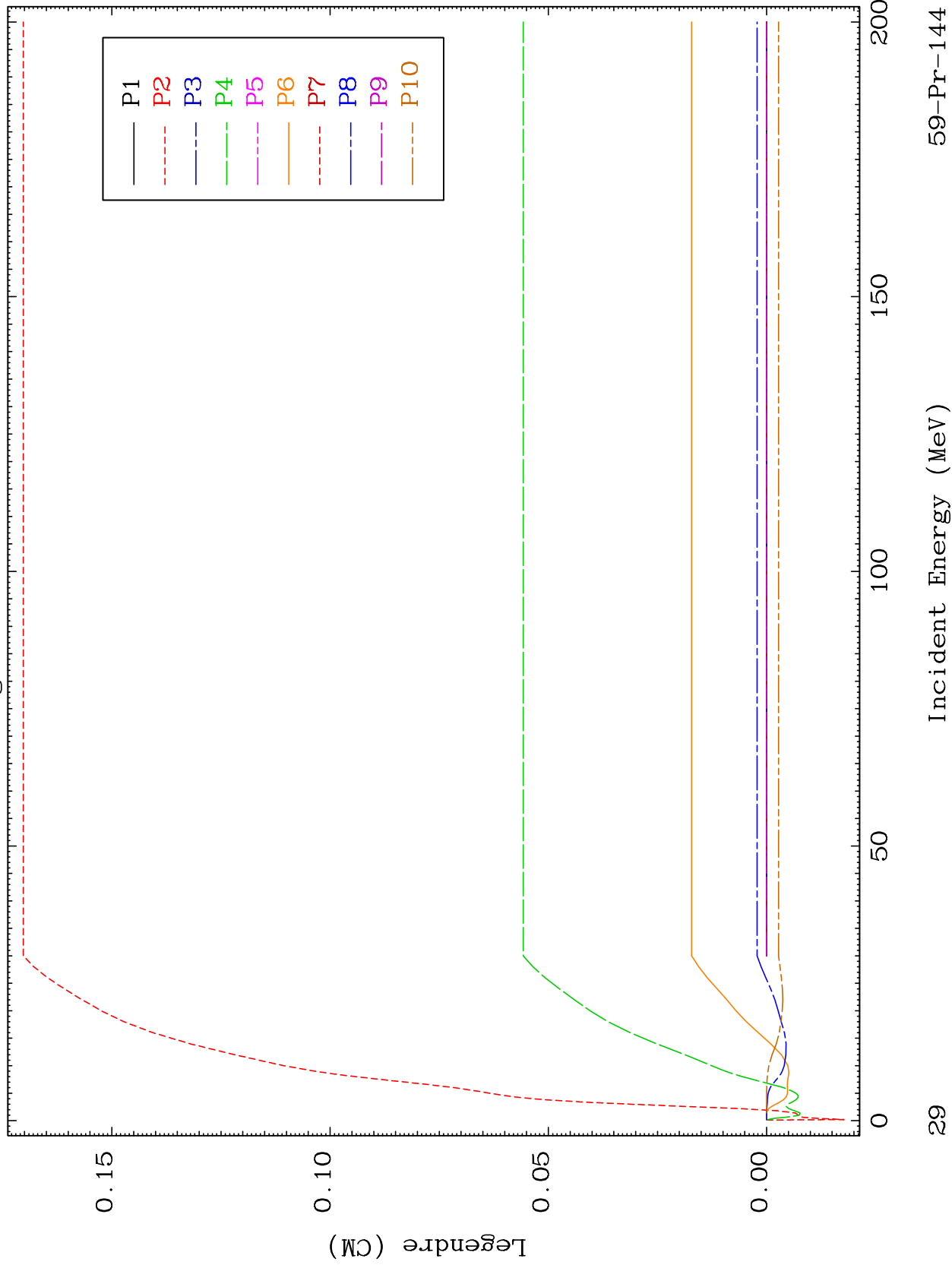
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



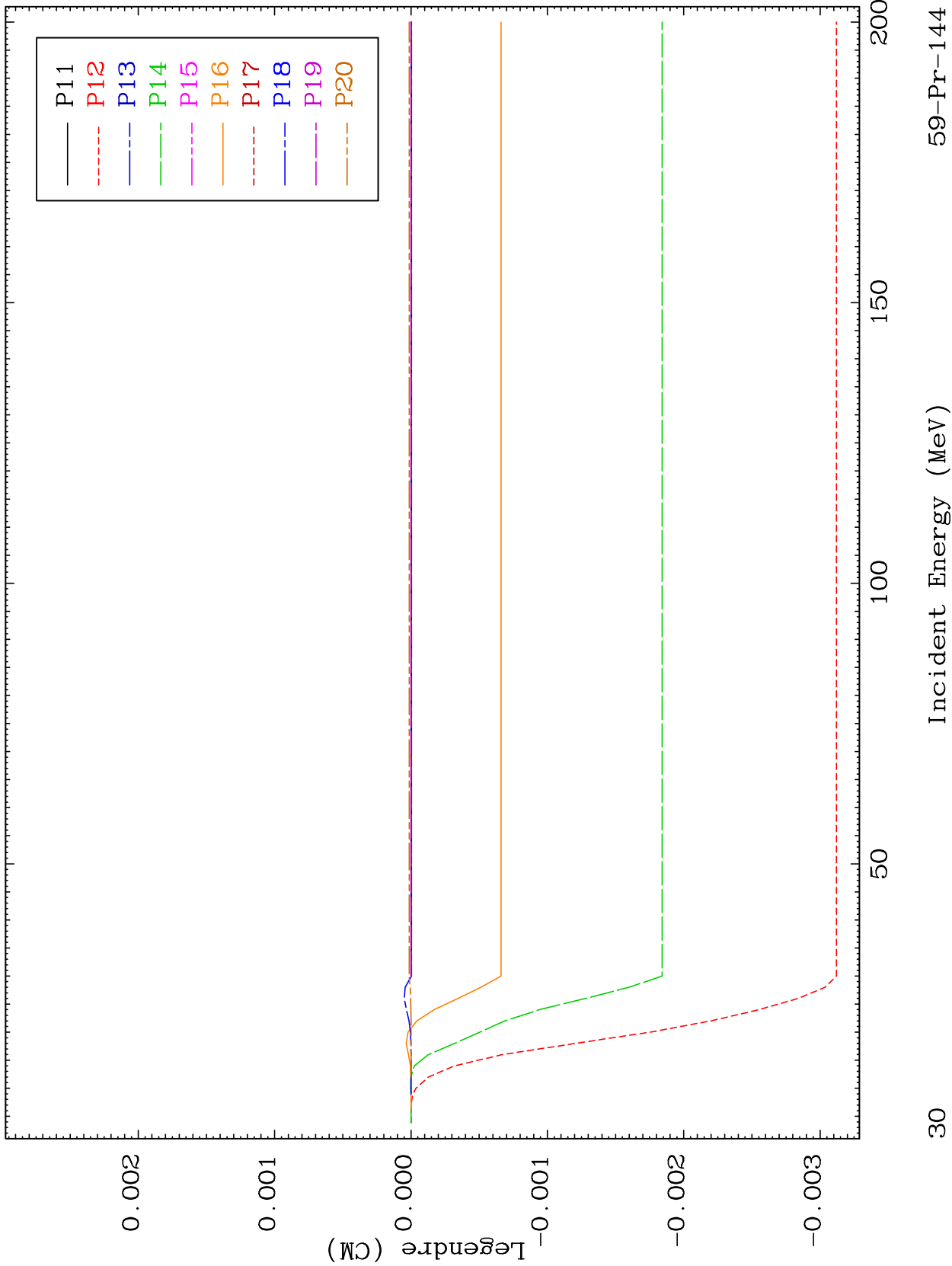
29

59-Pr-144

MAT 5934

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

59-Pr-144



30

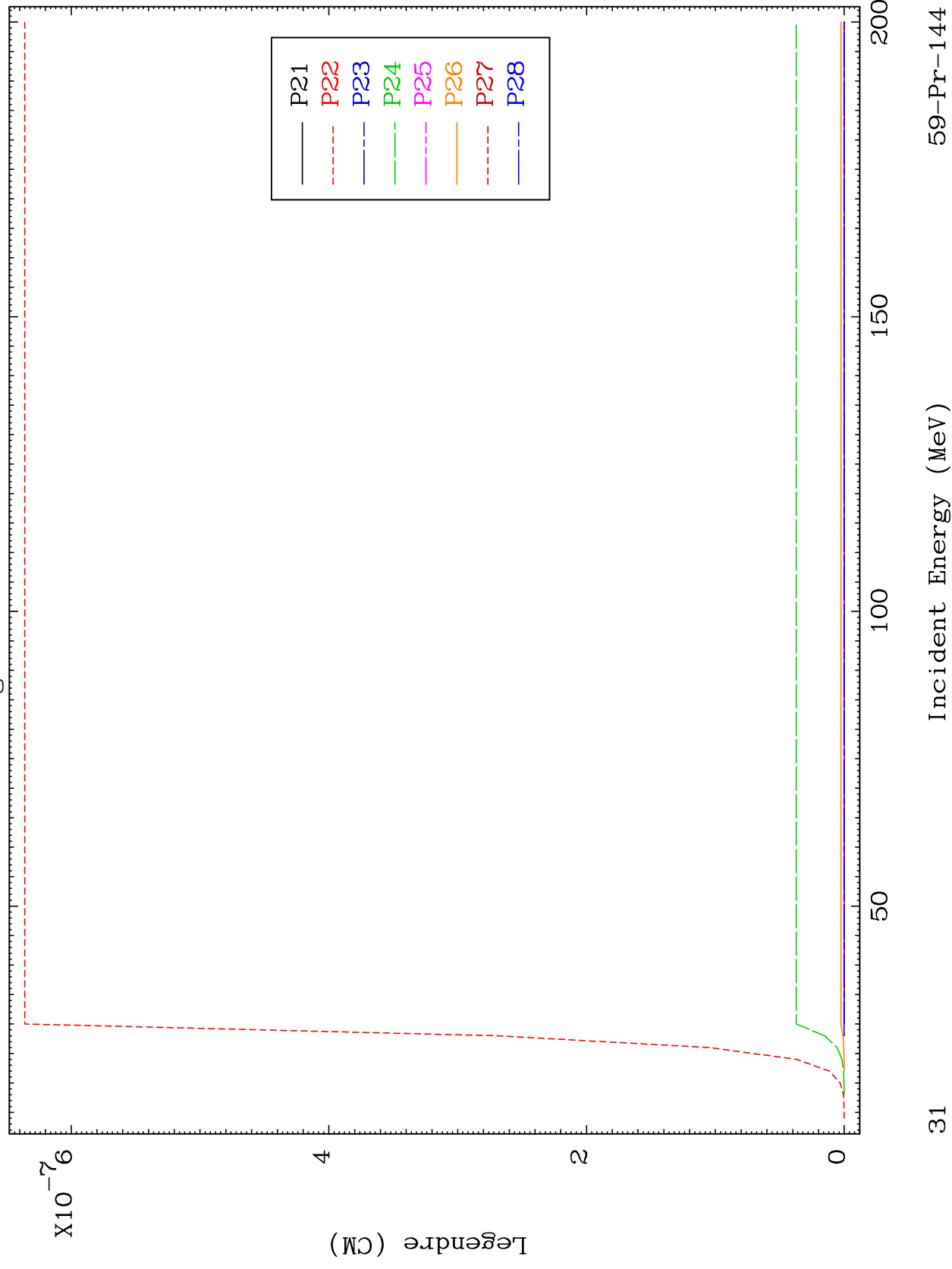
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



31

Incident Energy (MeV)

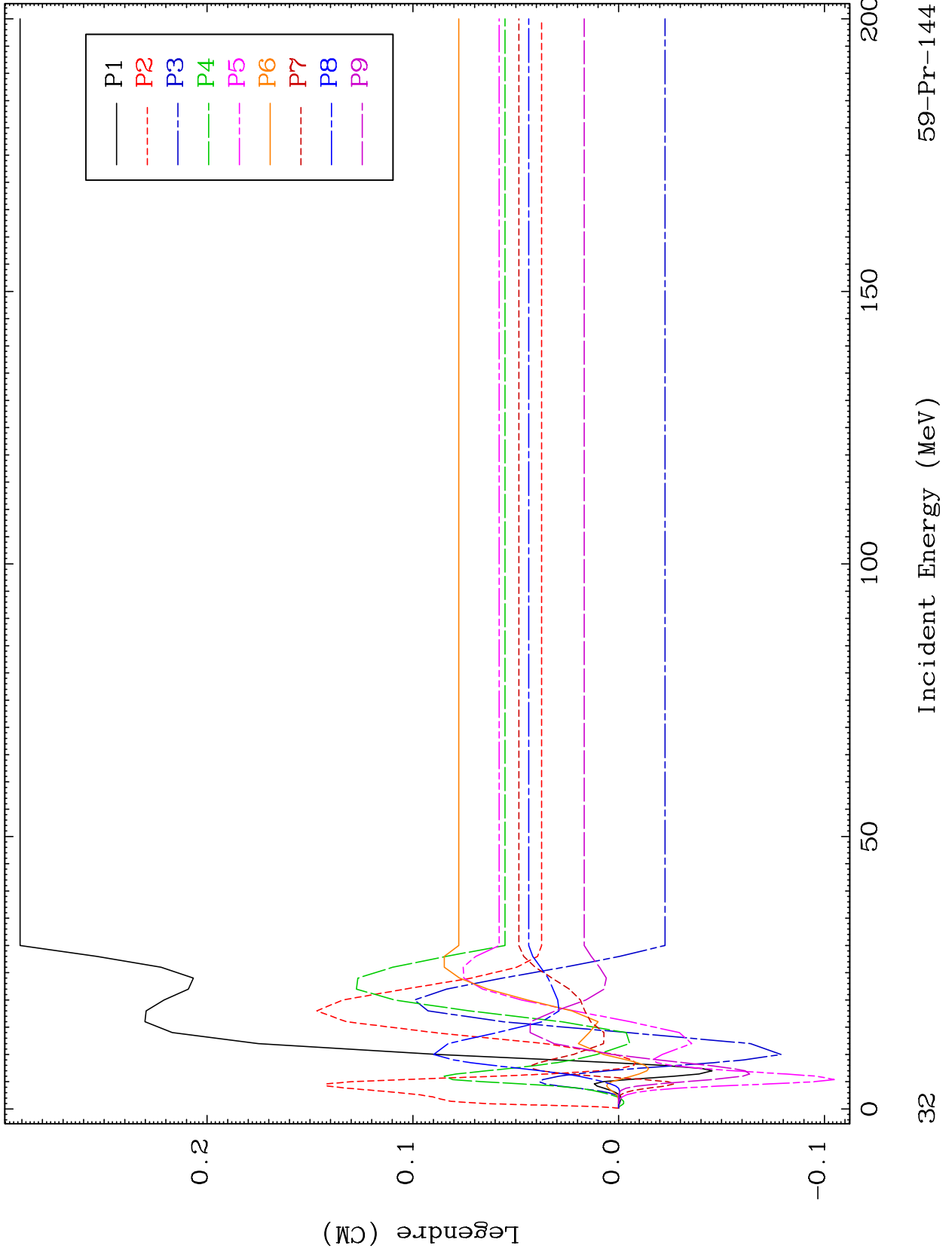
59-Pr-144



MAT 5934

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

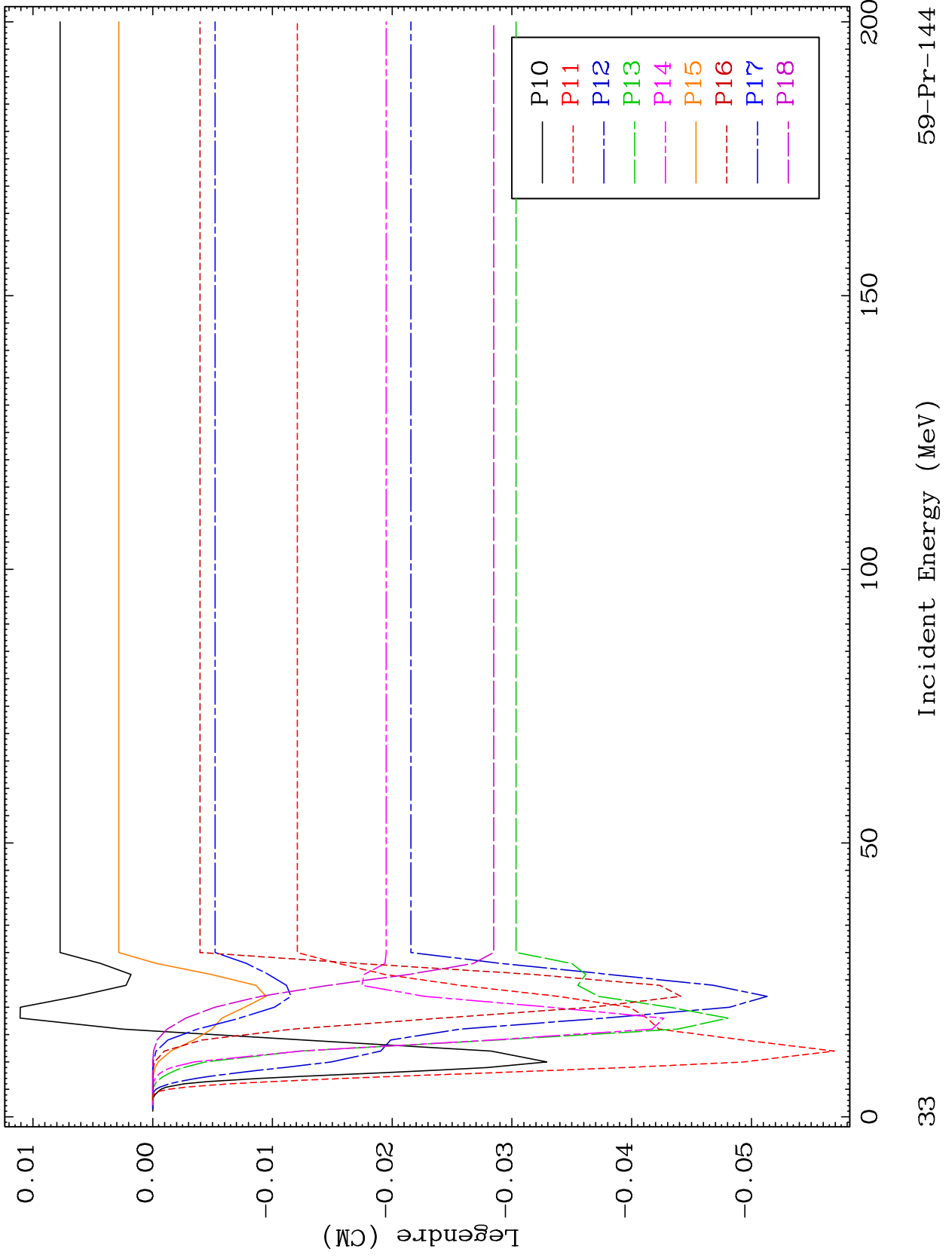
59-Pr-144

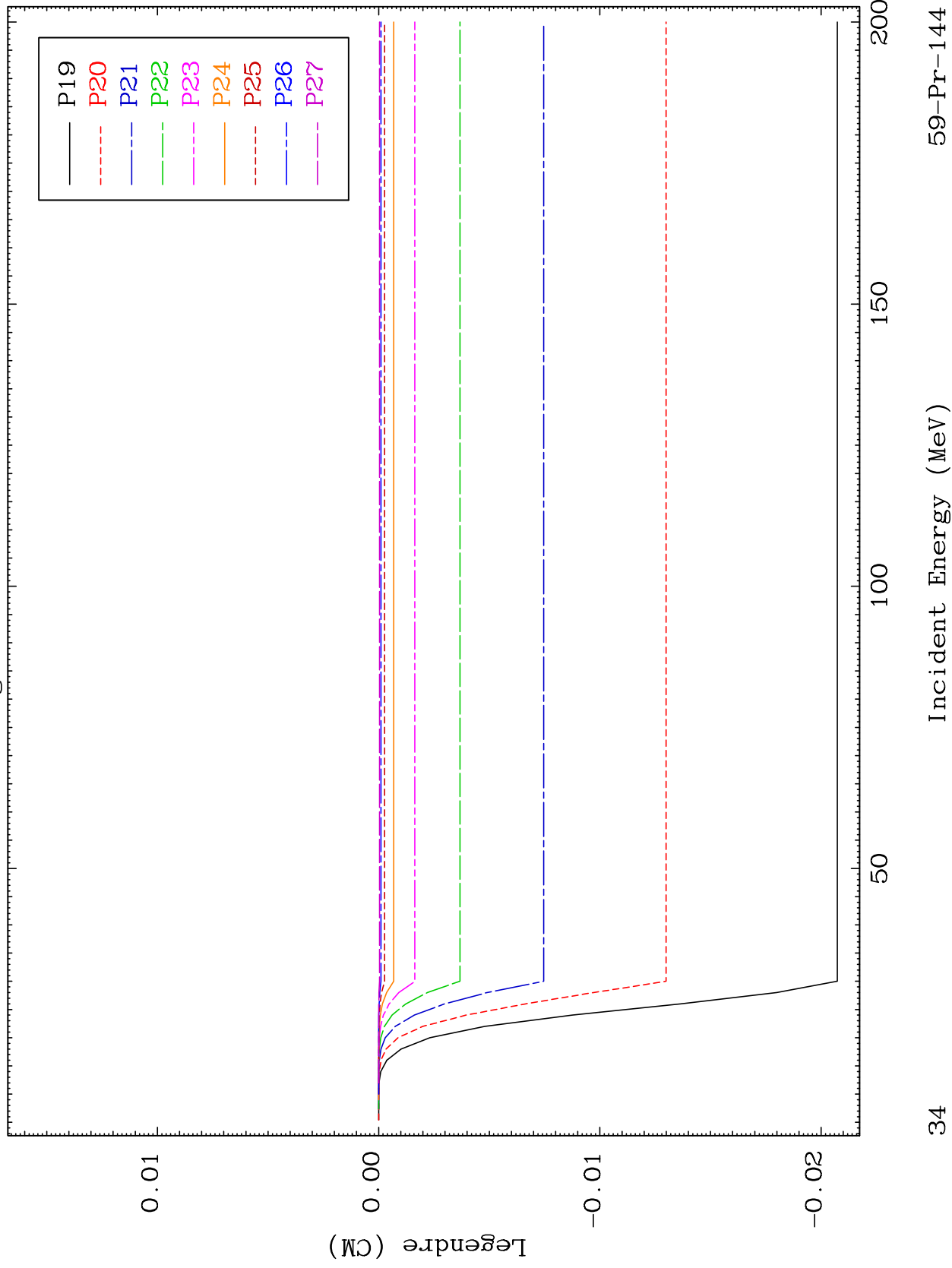


59-Pr-144

Incident Energy (MeV)

32

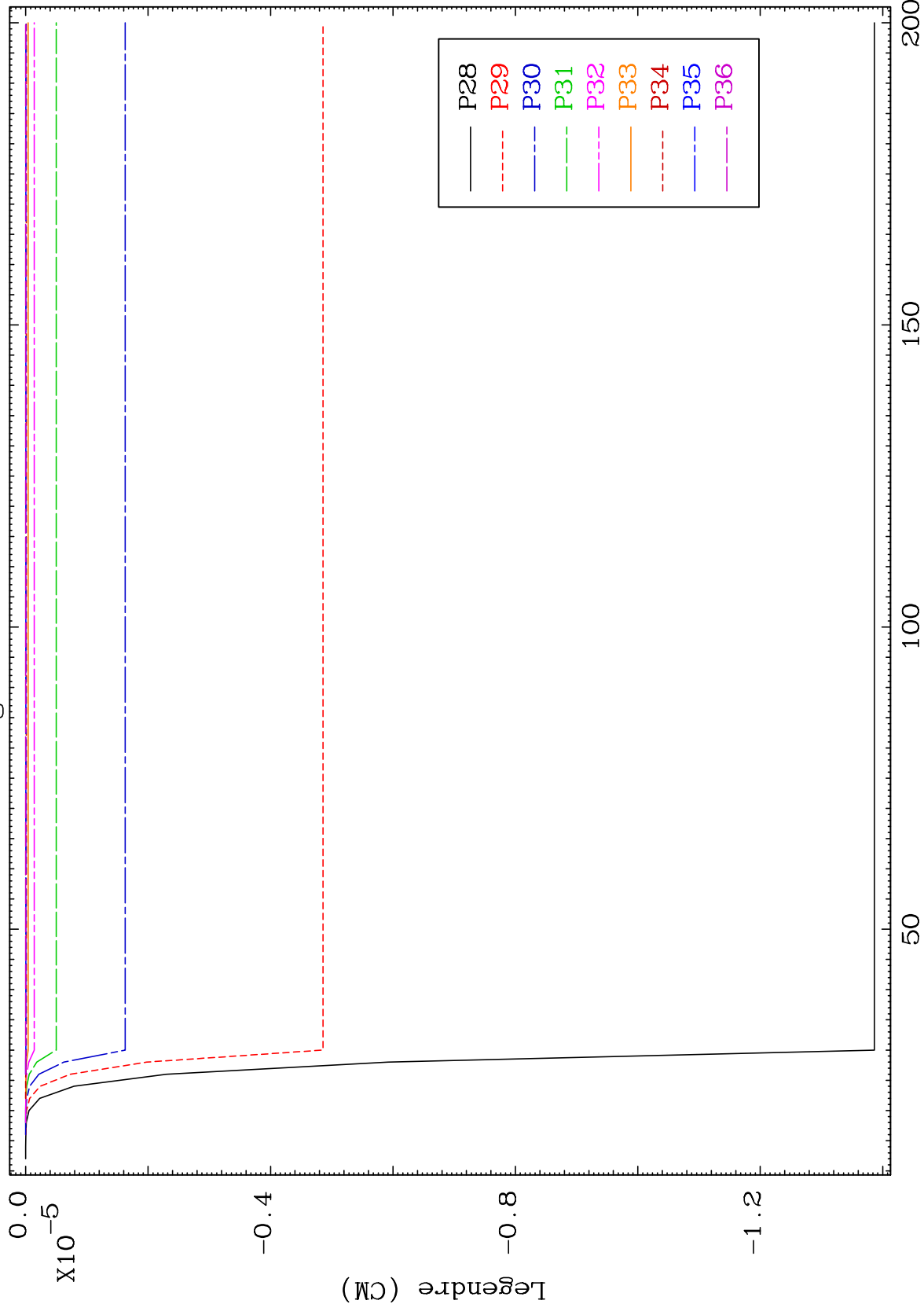




MAT 5934

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

59-Pr-144



35

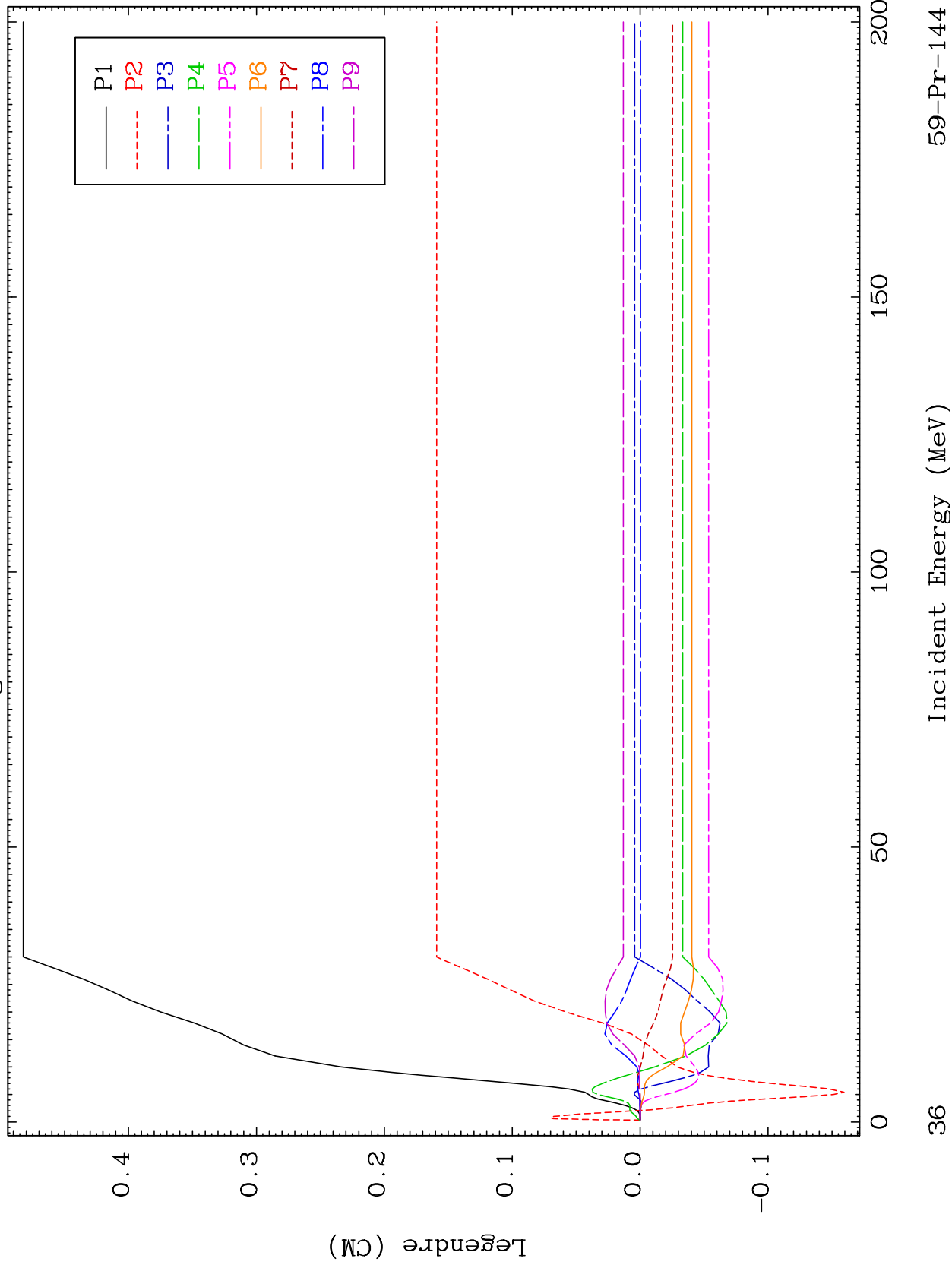
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



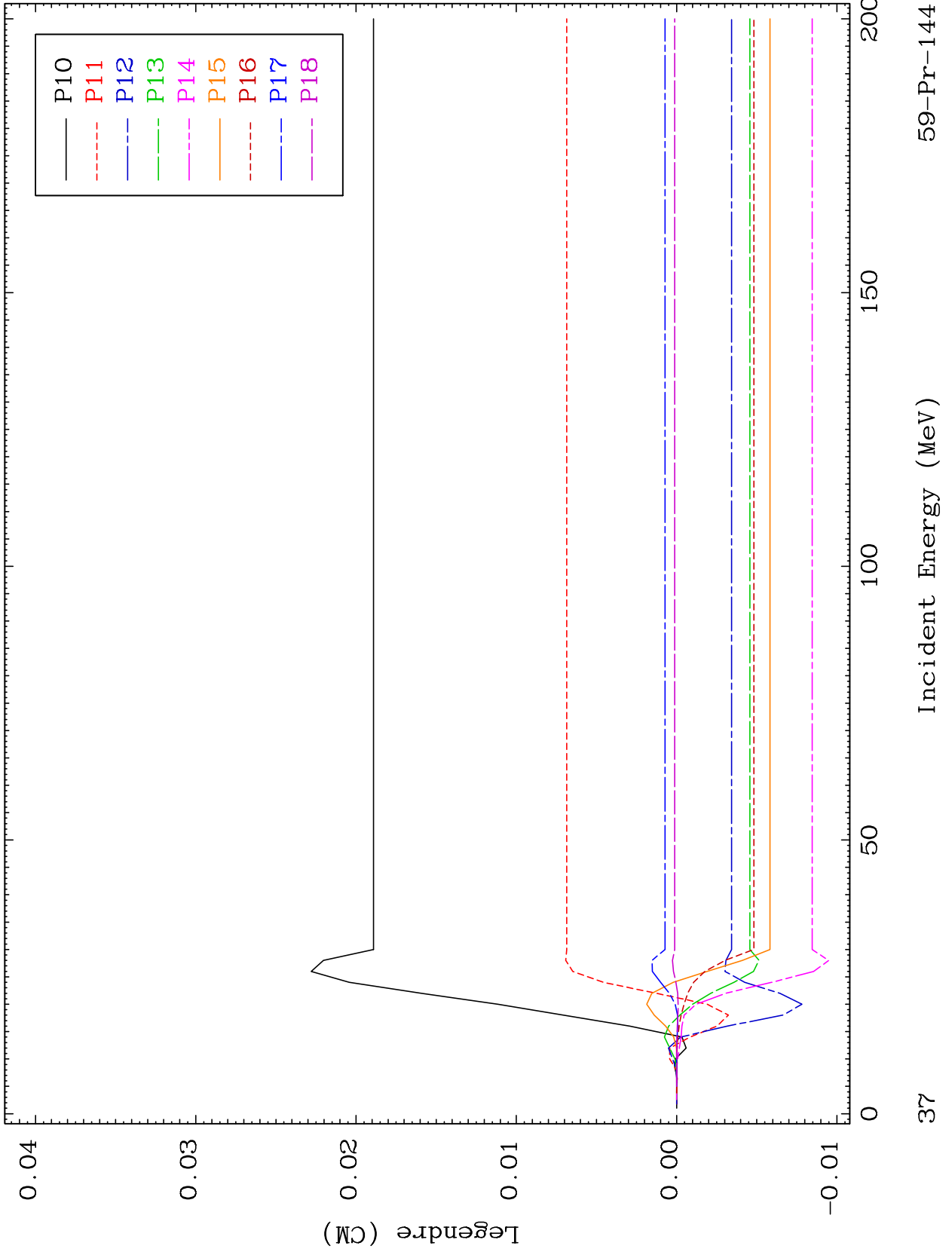
36

59-Pr-144

MAT 5934

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

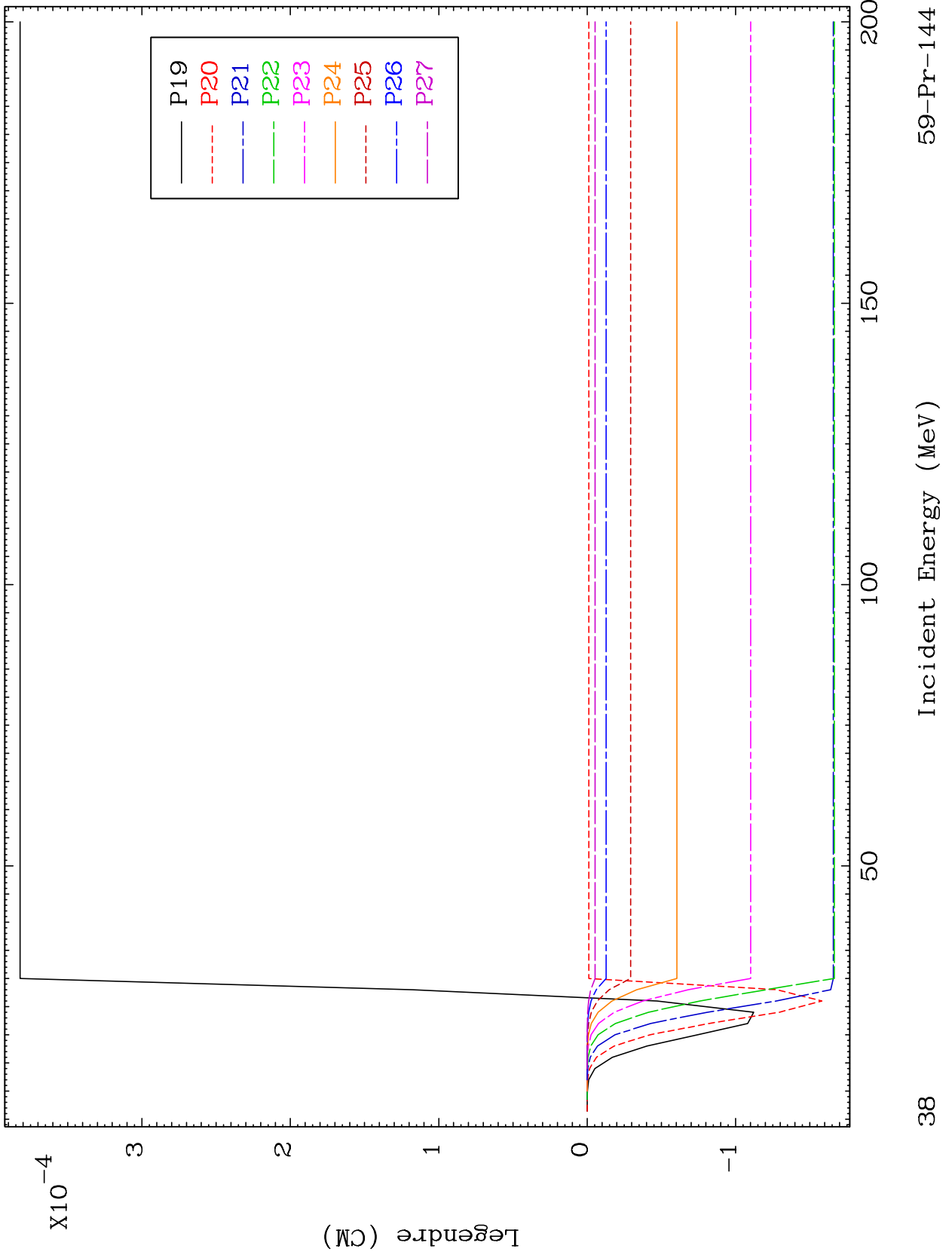
59-Pr-144



37

Incident Energy (MeV)

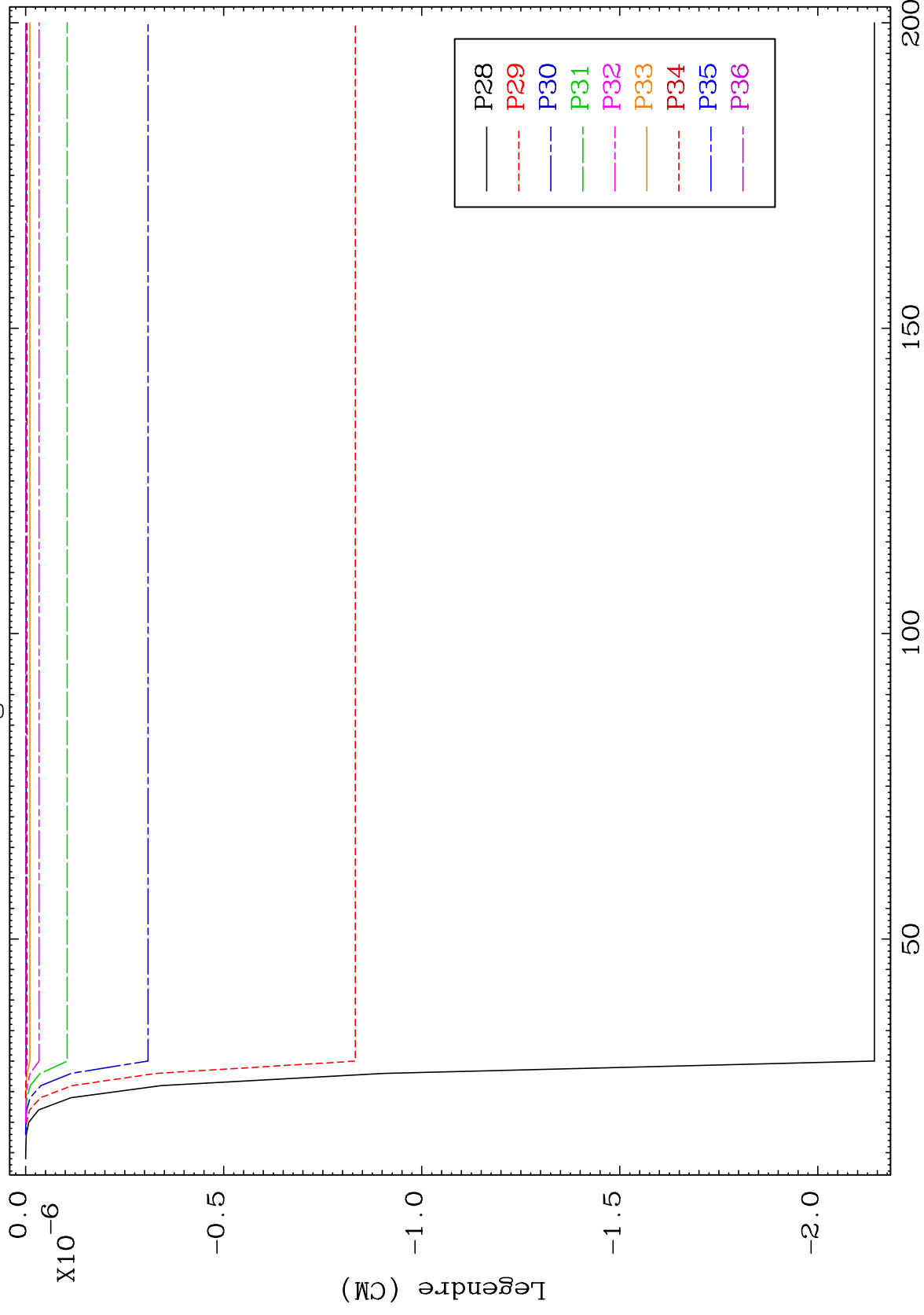
59-Pr-144



MAT 5934

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

59-Pr-144



39

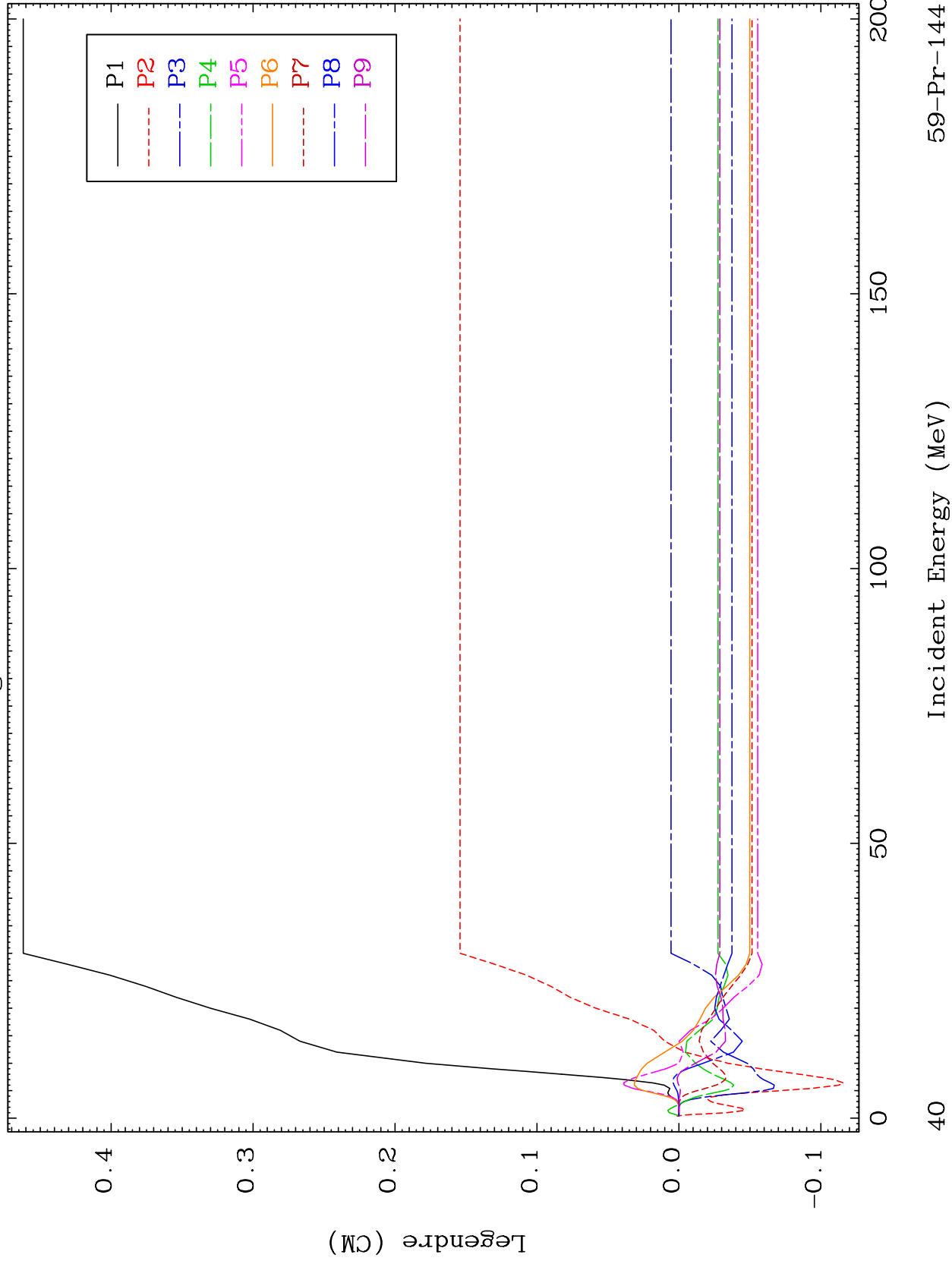
59-Pr-144



MAT 5934

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

59-Pr-144

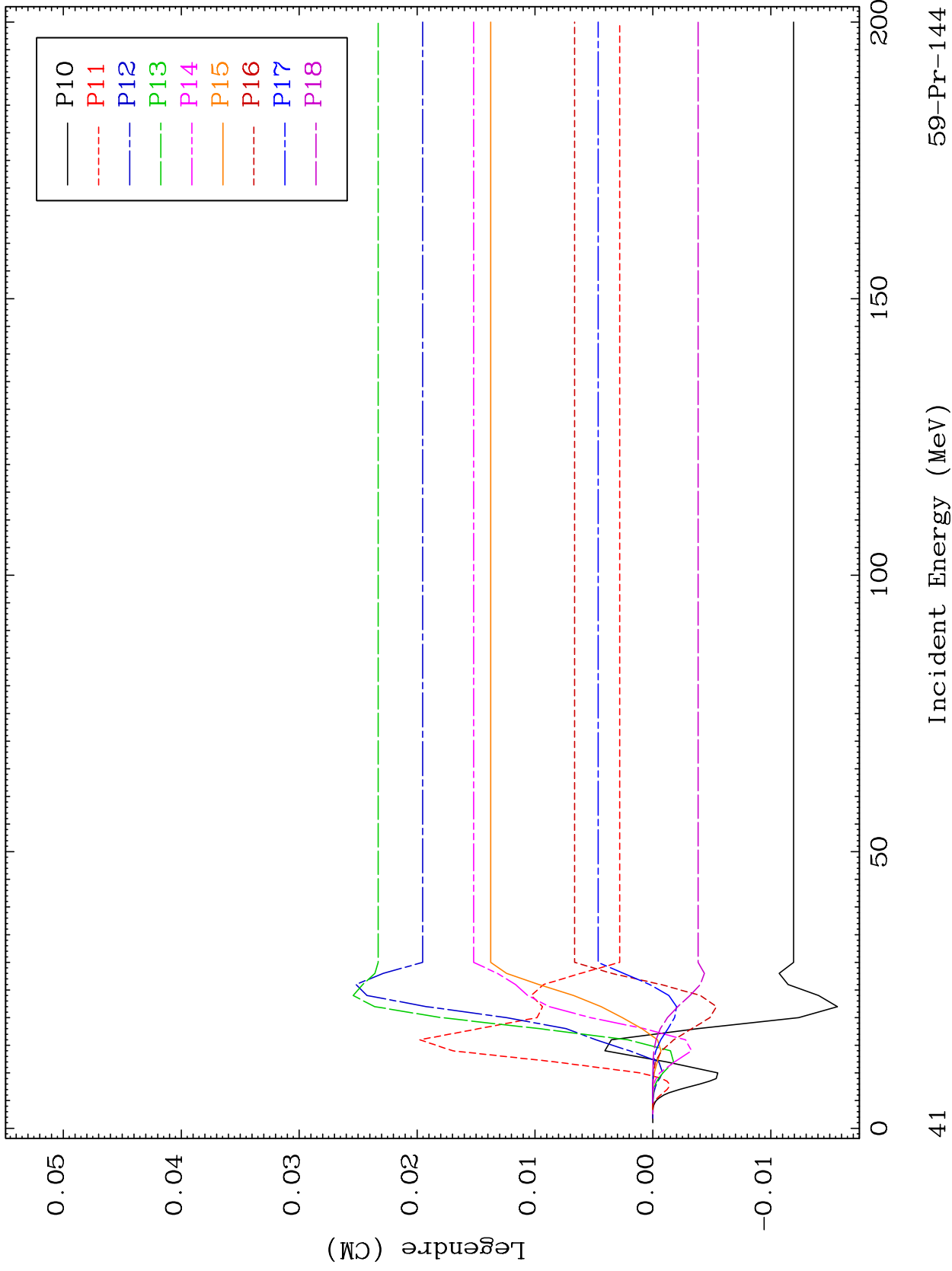


59-Pr-144

MAT 5934

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

59-Pr-144



59-Pr-144

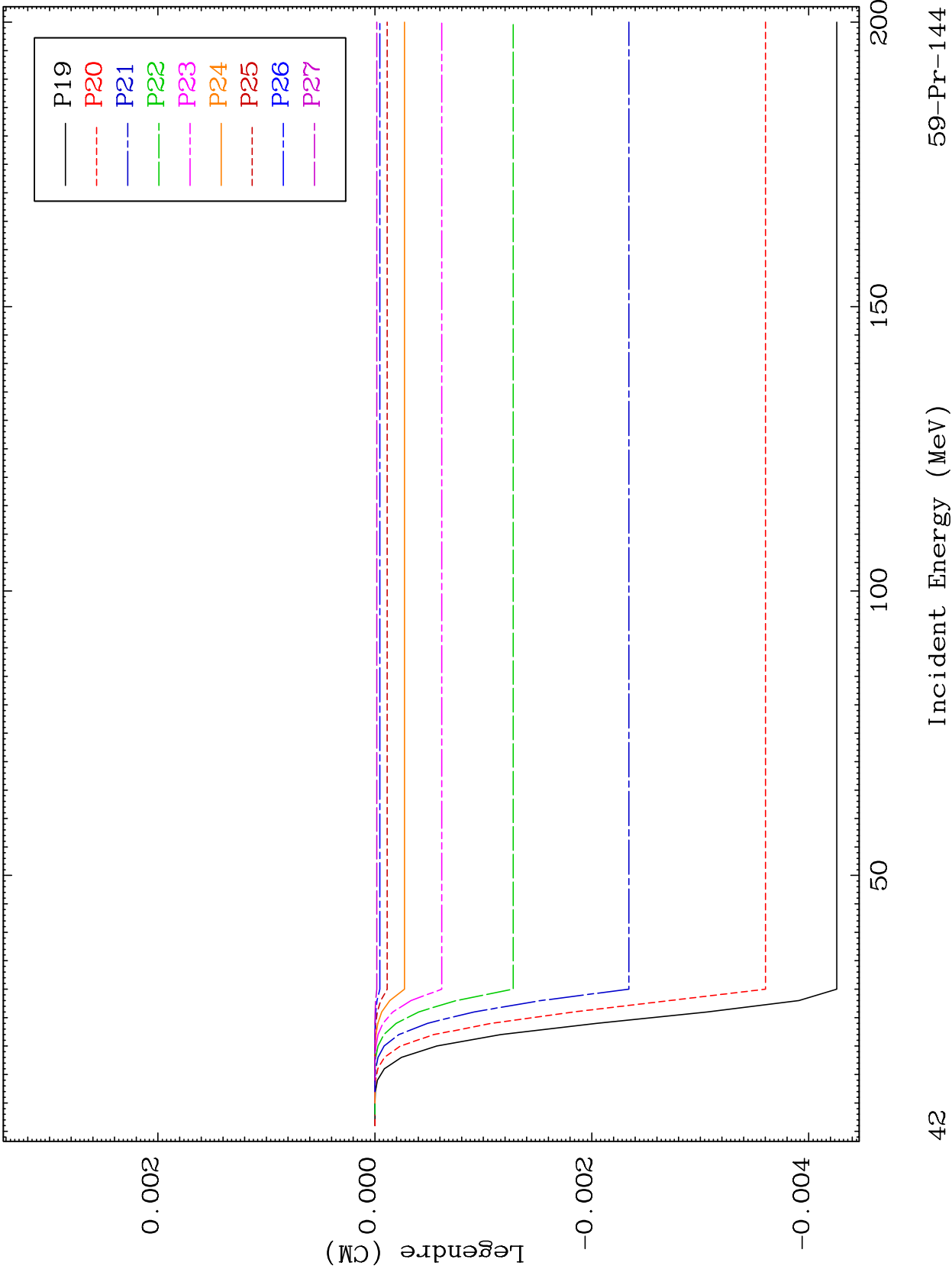
Incident Energy (MeV)

41

MAT 5934

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

59-Pr-144



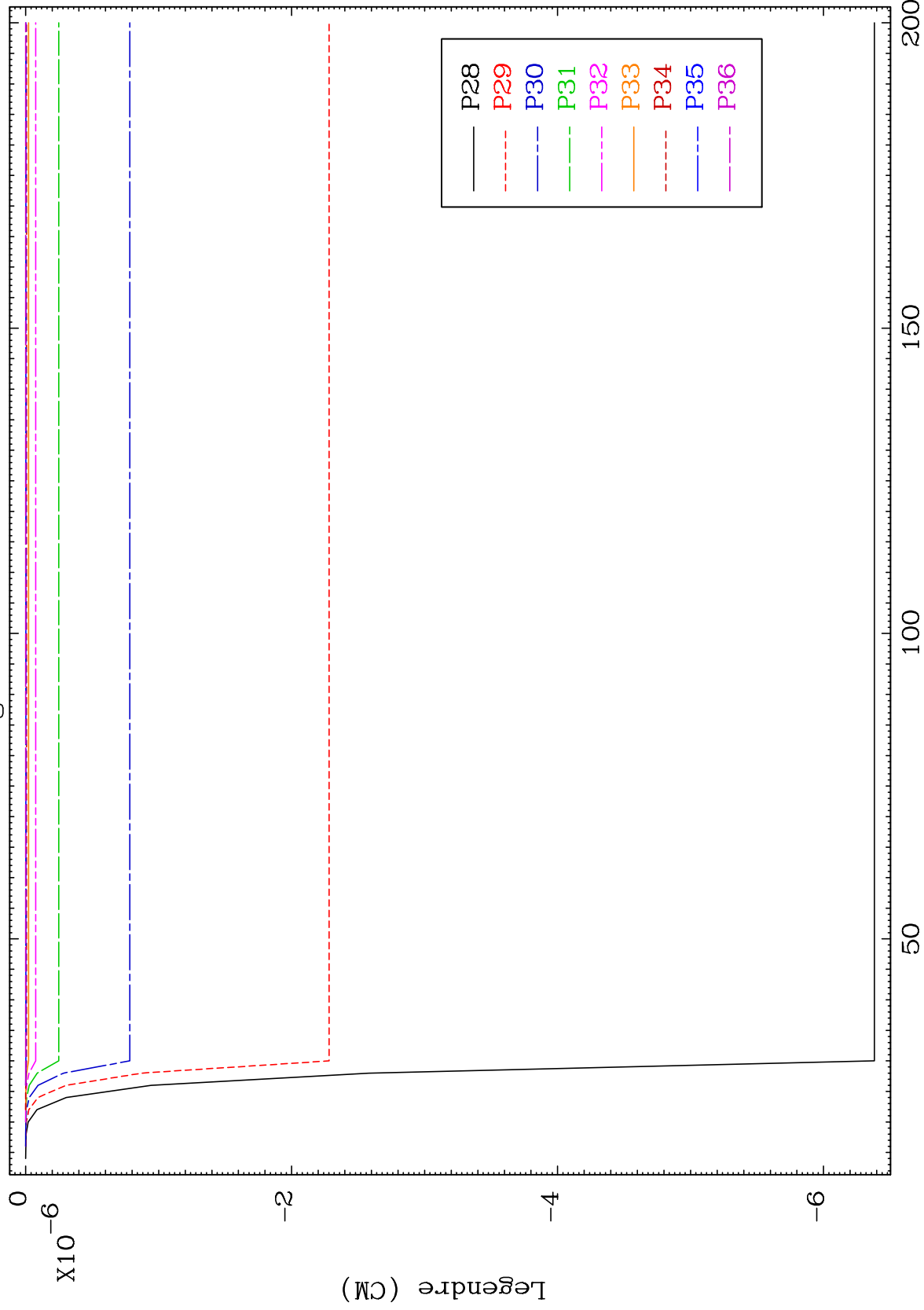
42

59-Pr-144

MAT 5934

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

59-Pr-144



43

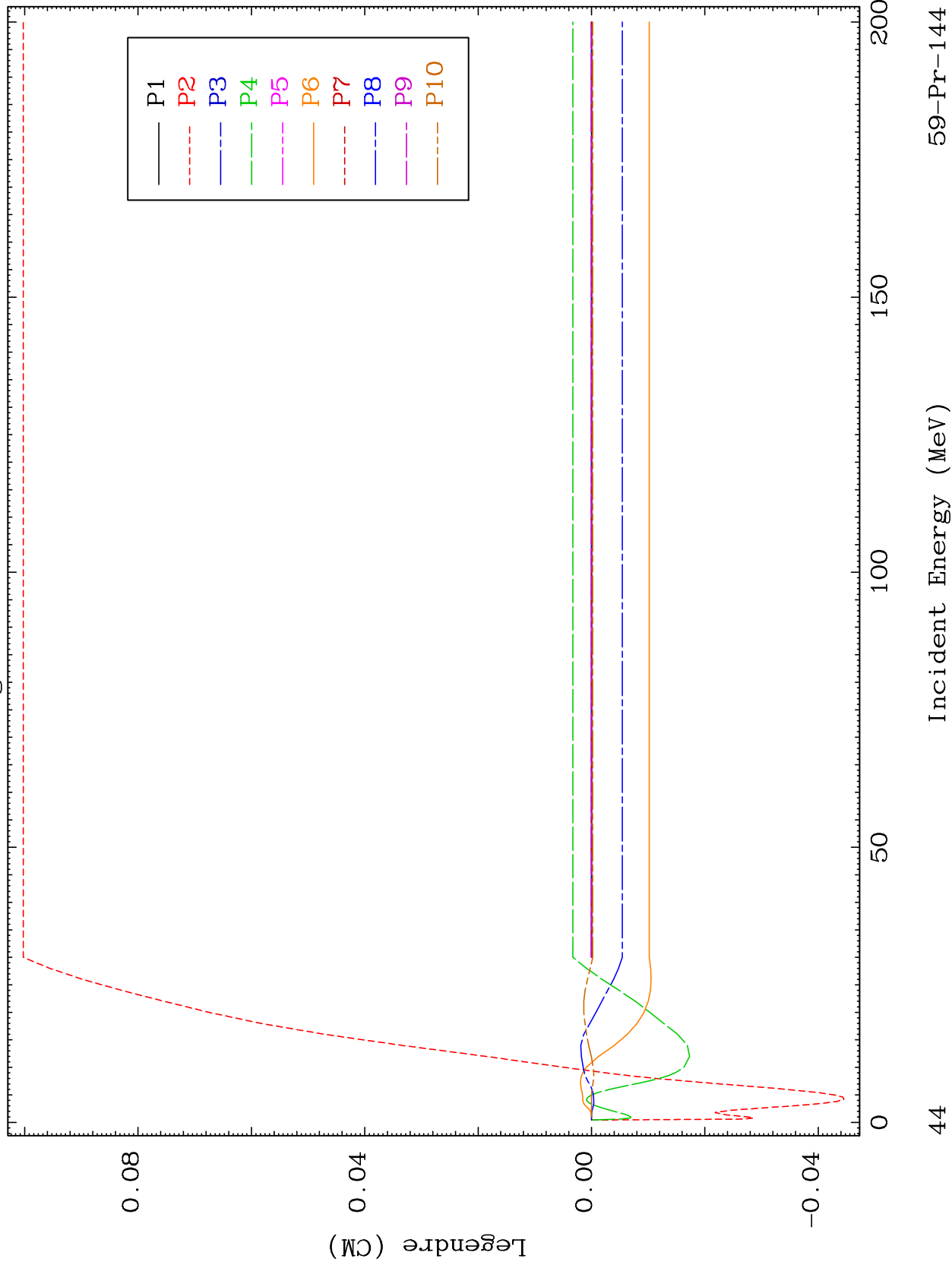
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



59-Pr-144

Incident Energy (MeV)

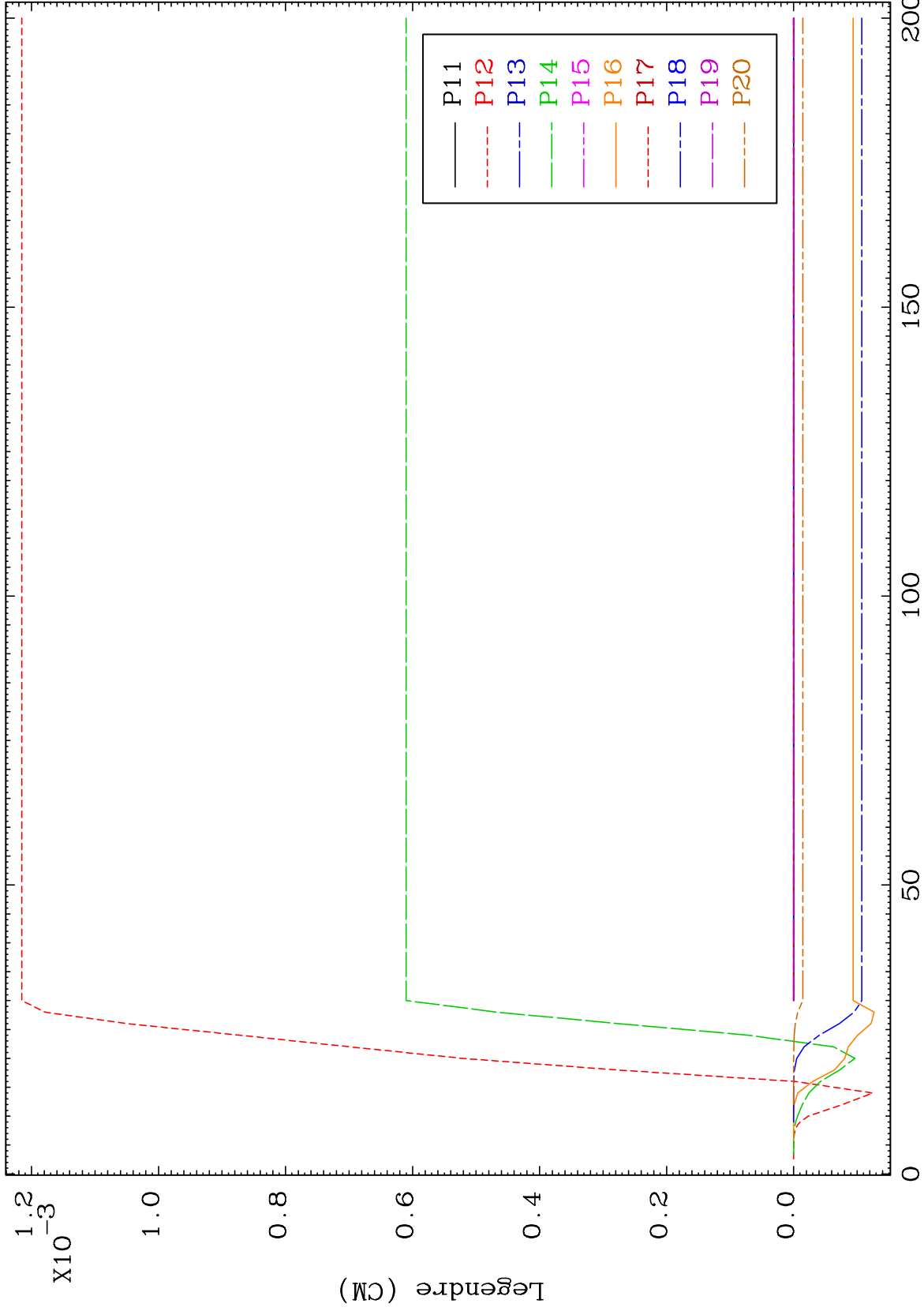
44

MAT 5934

MT= 57 (n,n') Level

59-Pr-144

Legendre Coefficients



45

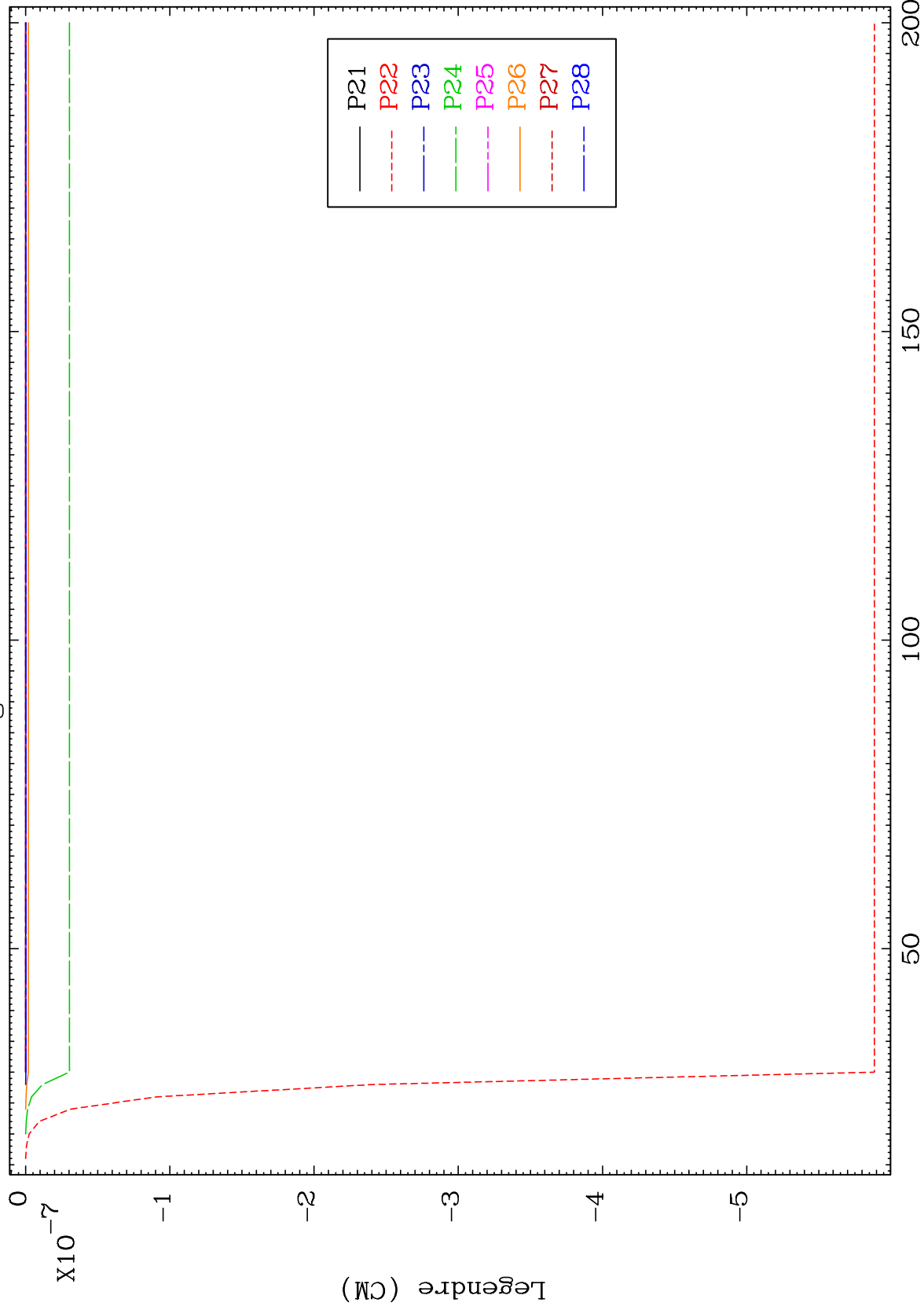
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



46

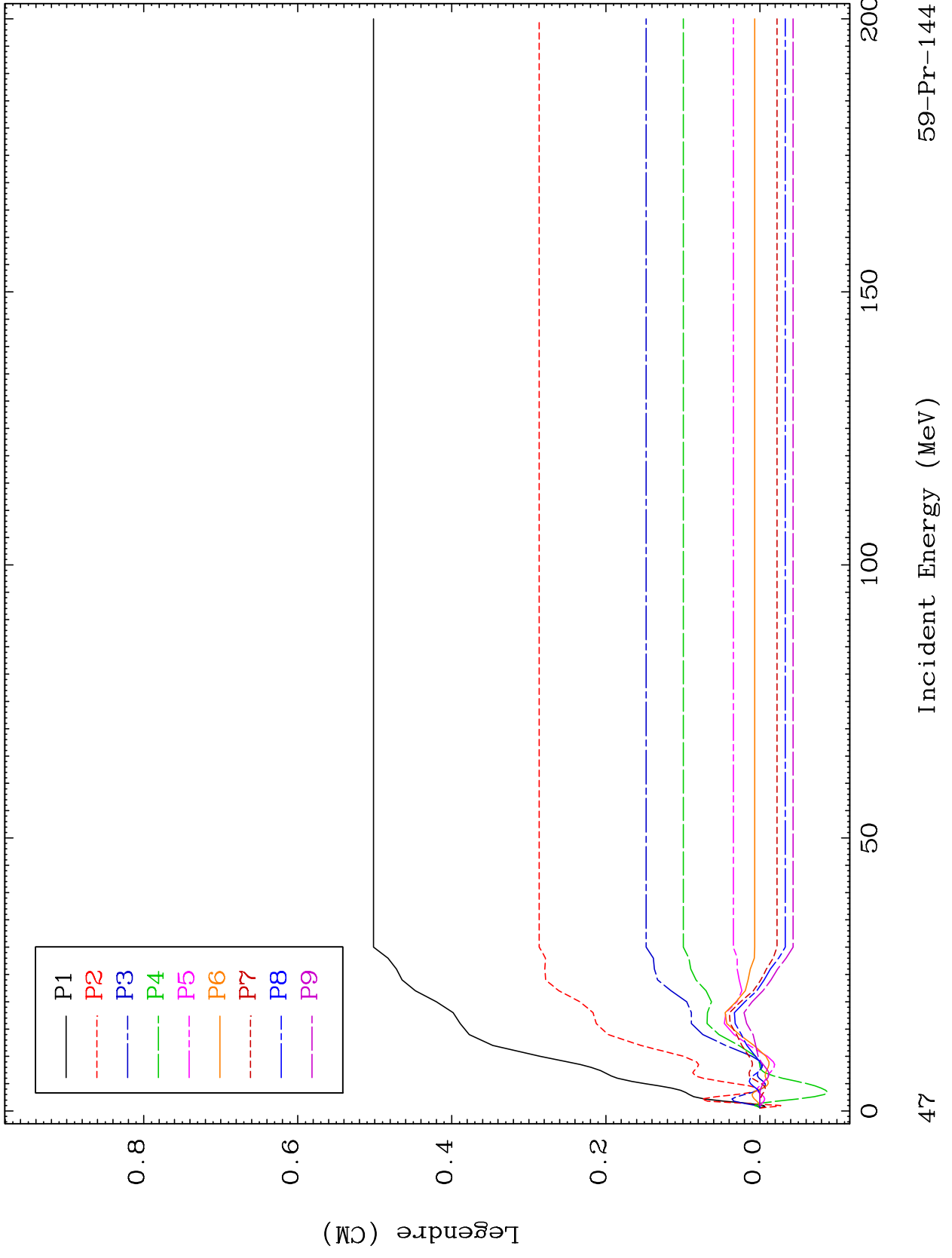
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144

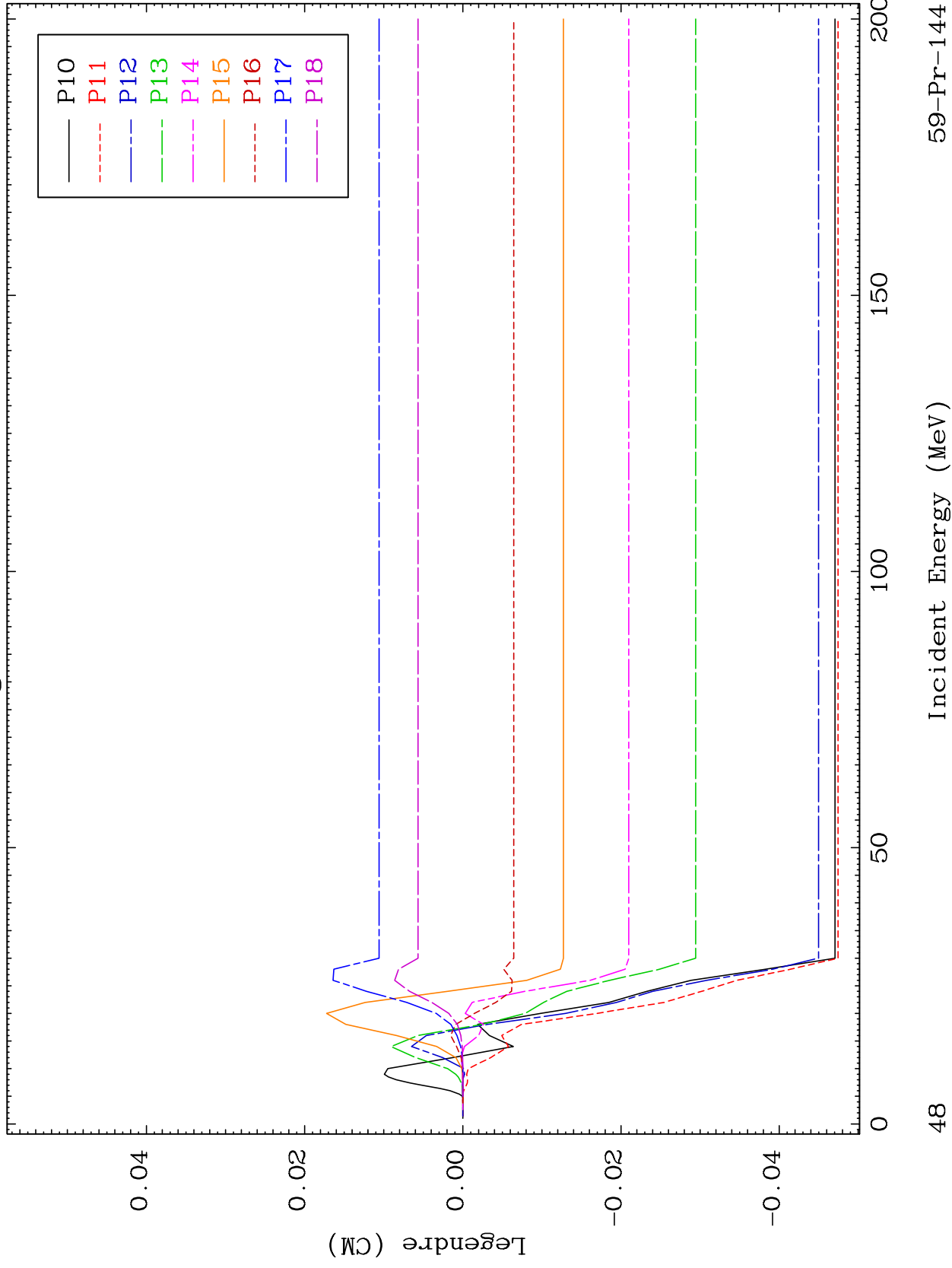




MAT 5934

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

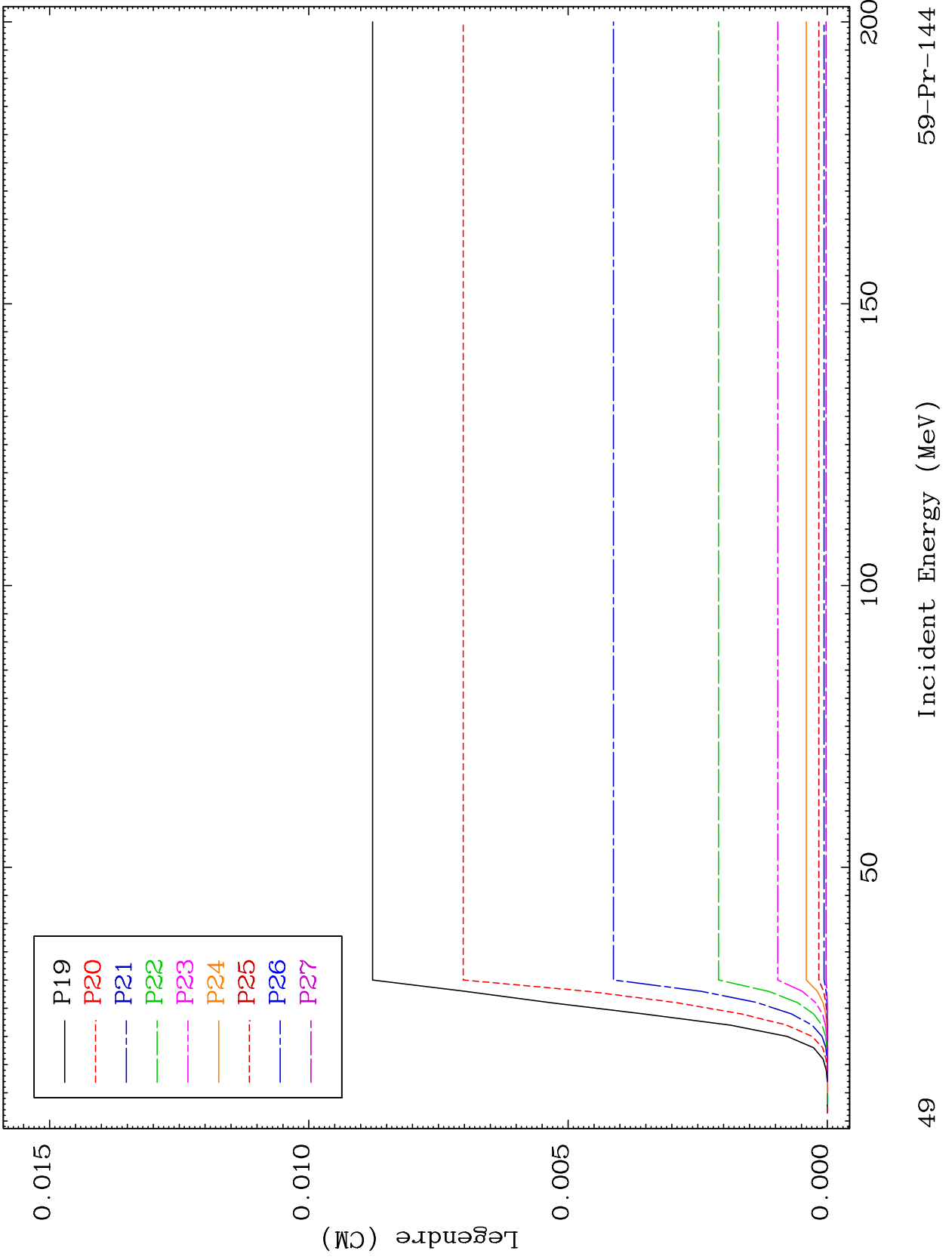
59-Pr-144



59-Pr-144

Incident Energy (MeV)

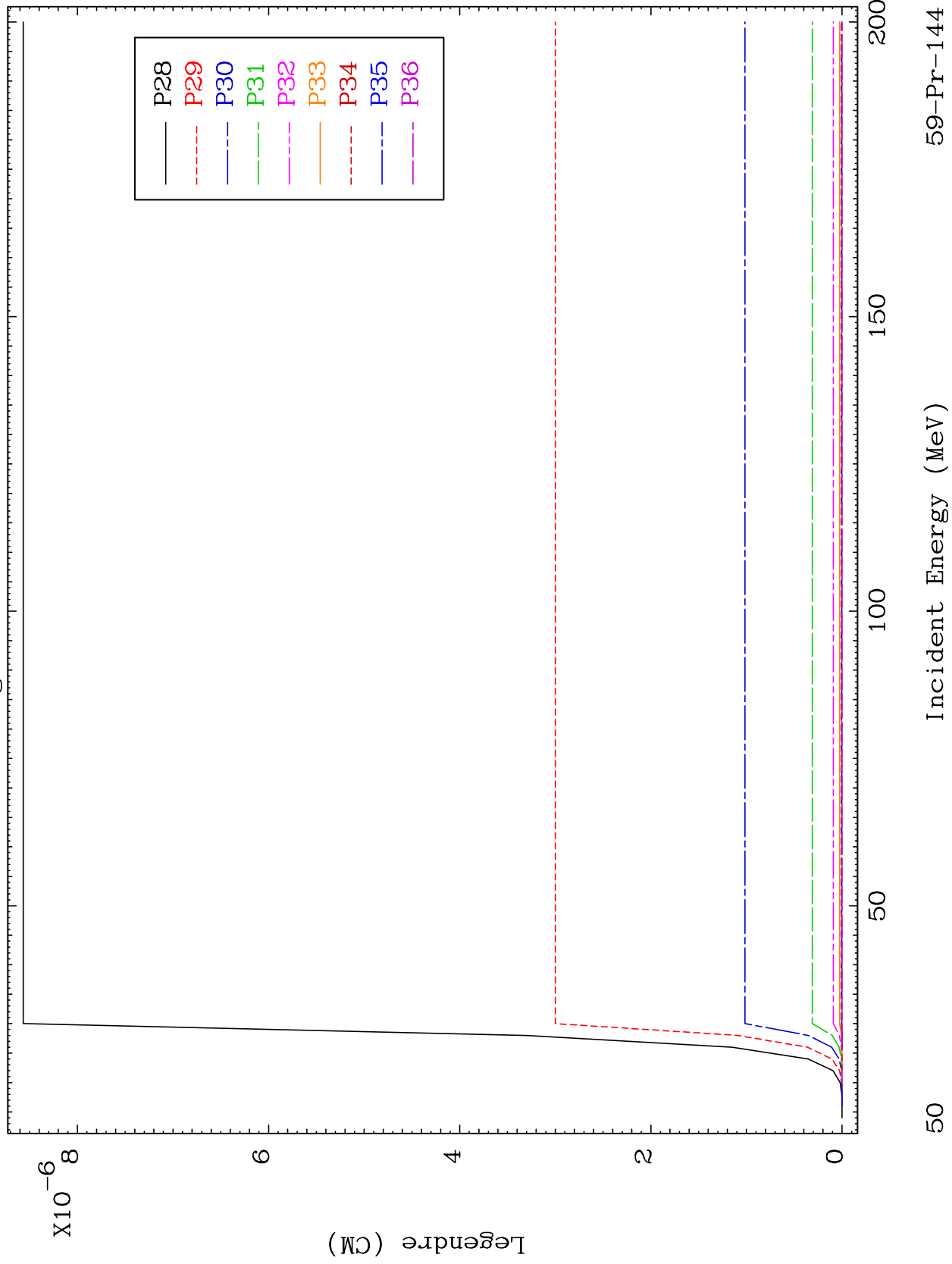
48



MAT 5934

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

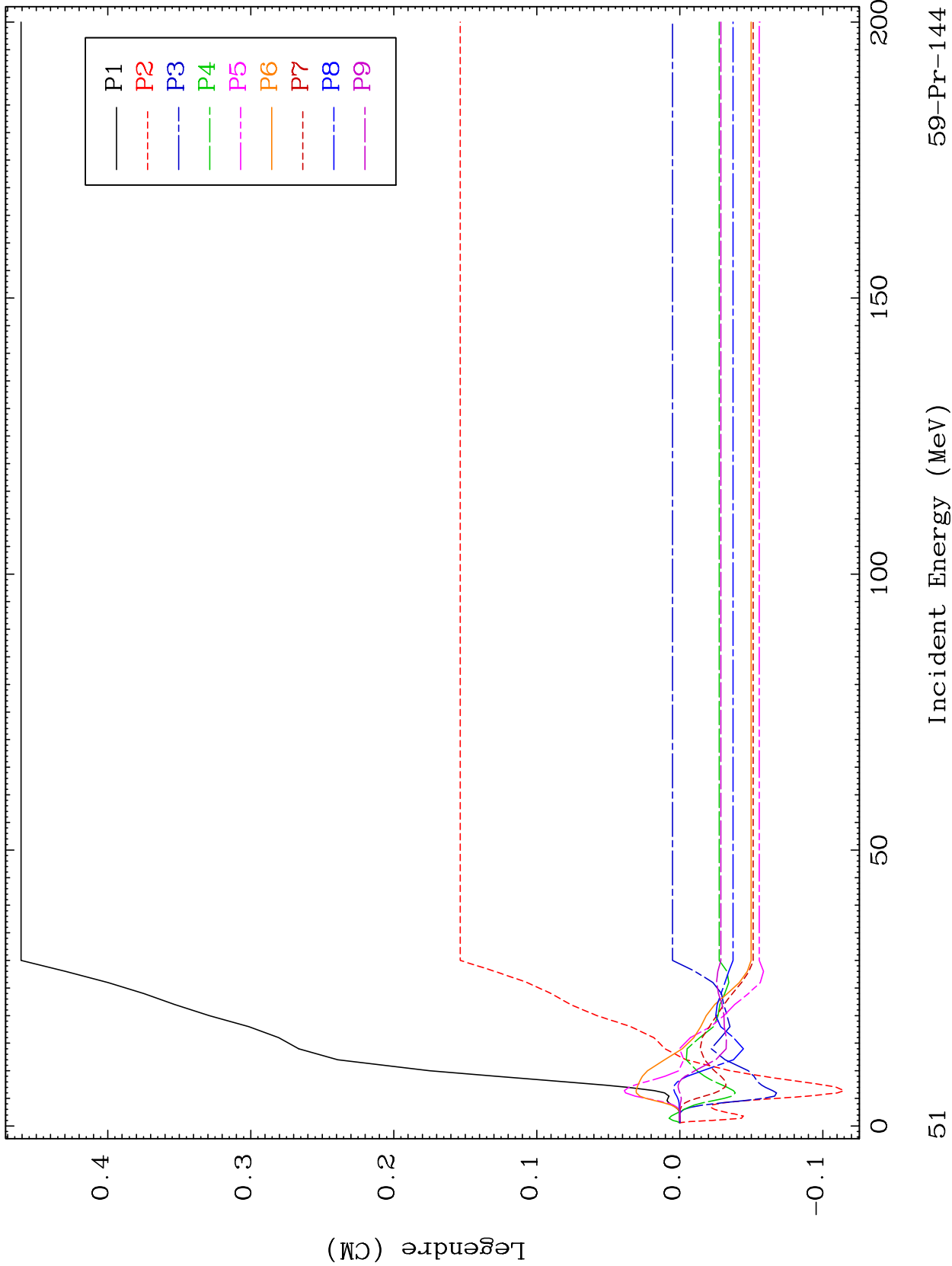
59-Pr-144



MAT 5934

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

59-Pr-144



59-Pr-144

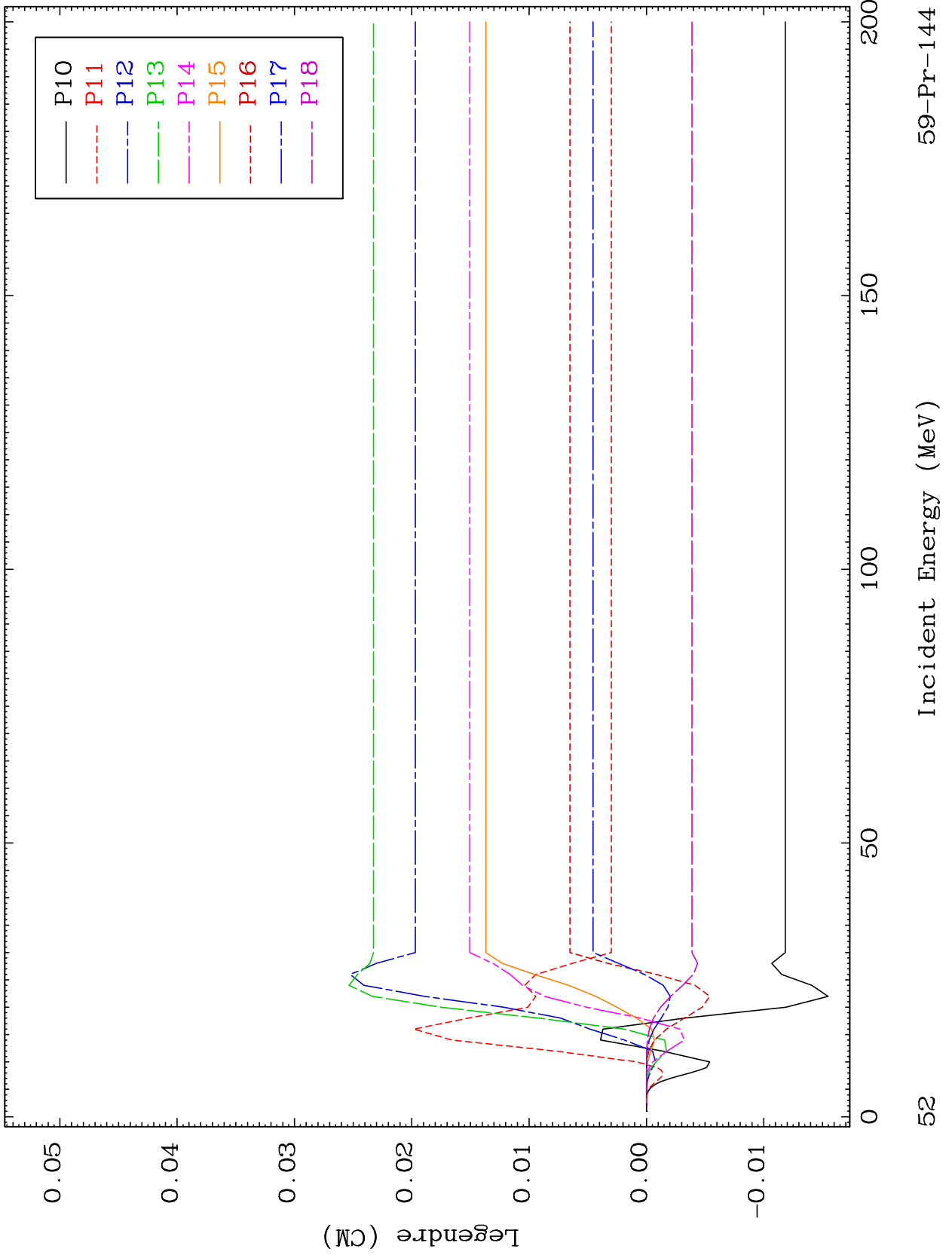
Incident Energy (MeV)

51

MAT 5934

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

59-Pr-144



52

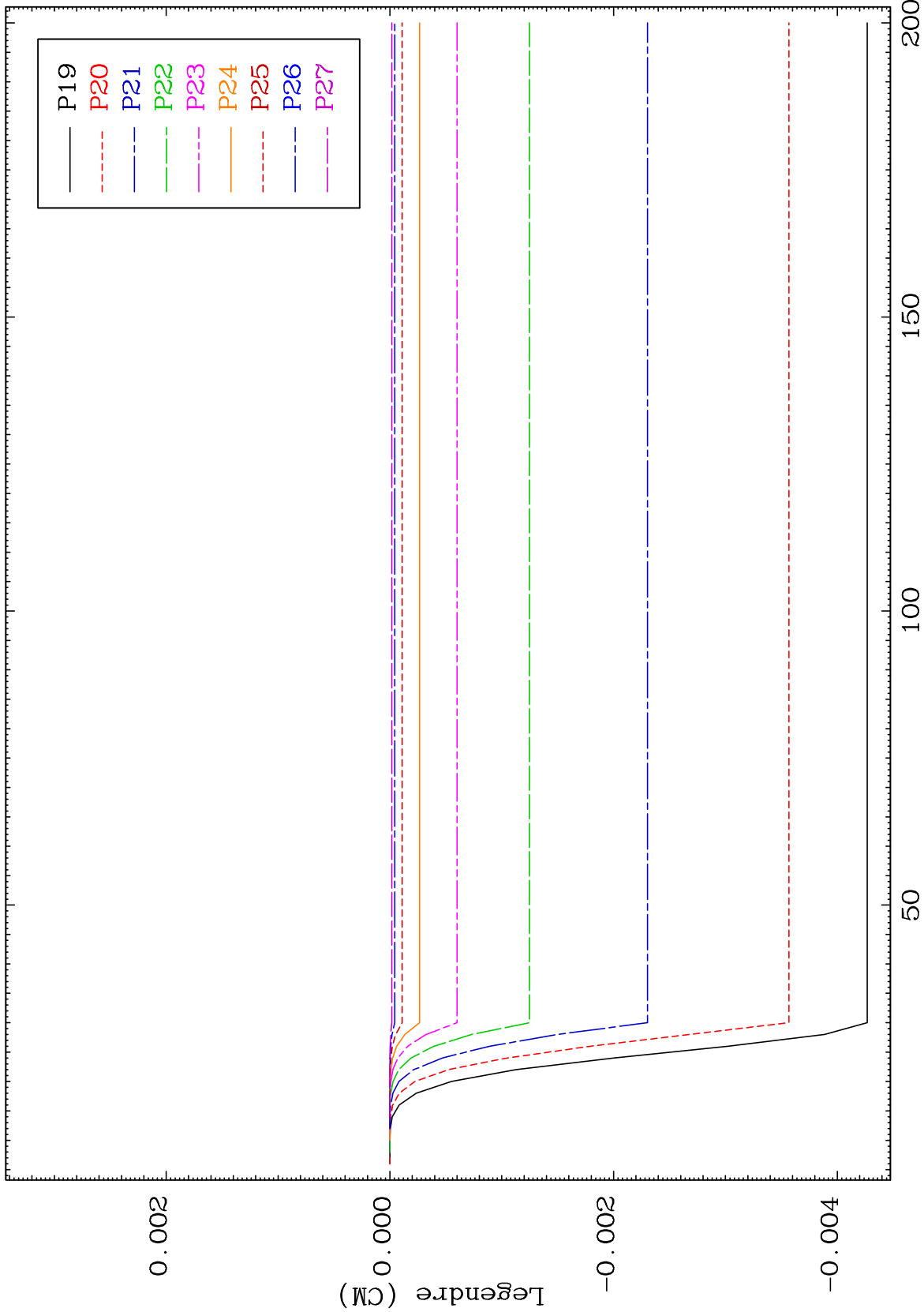
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



53

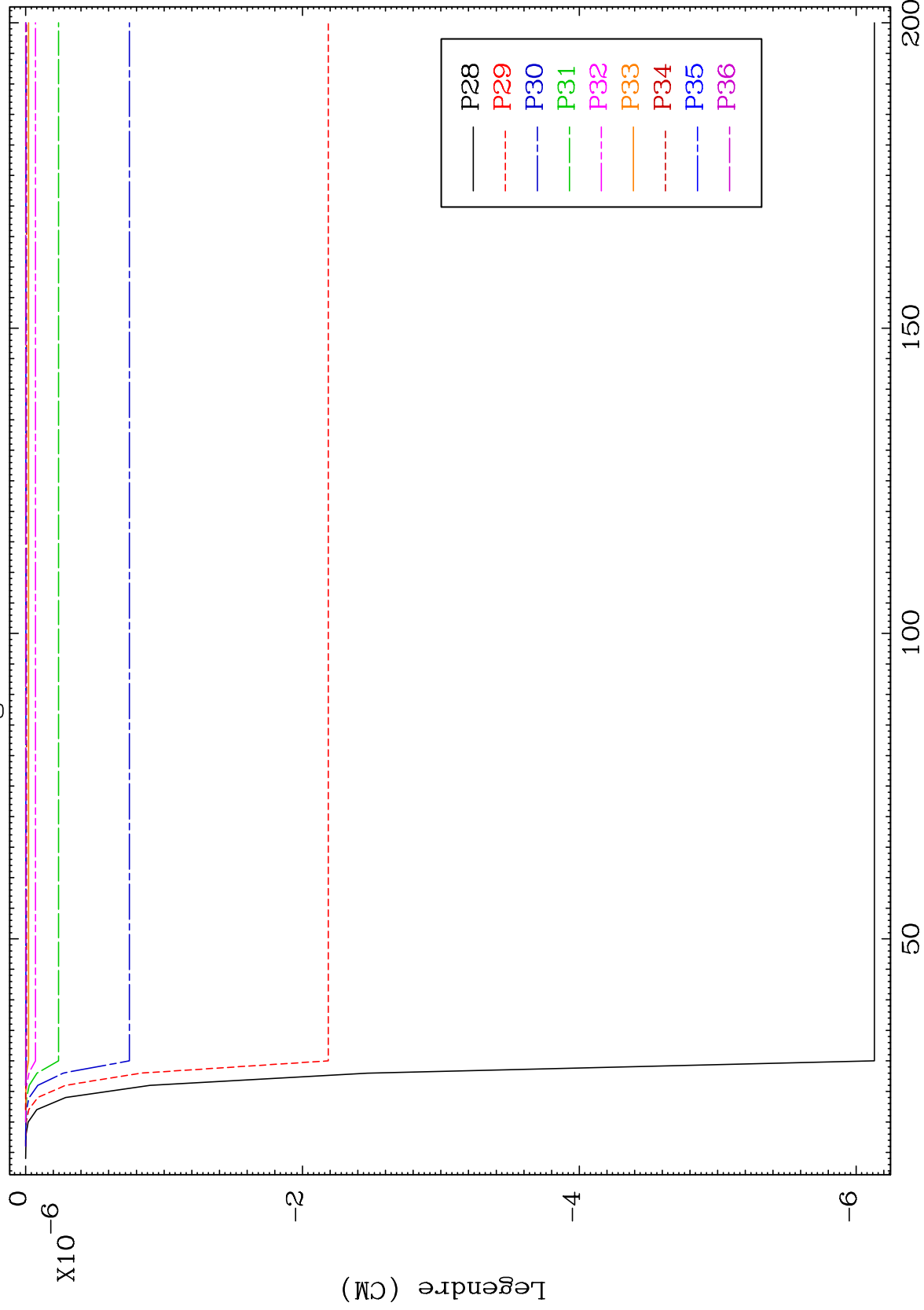
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



54

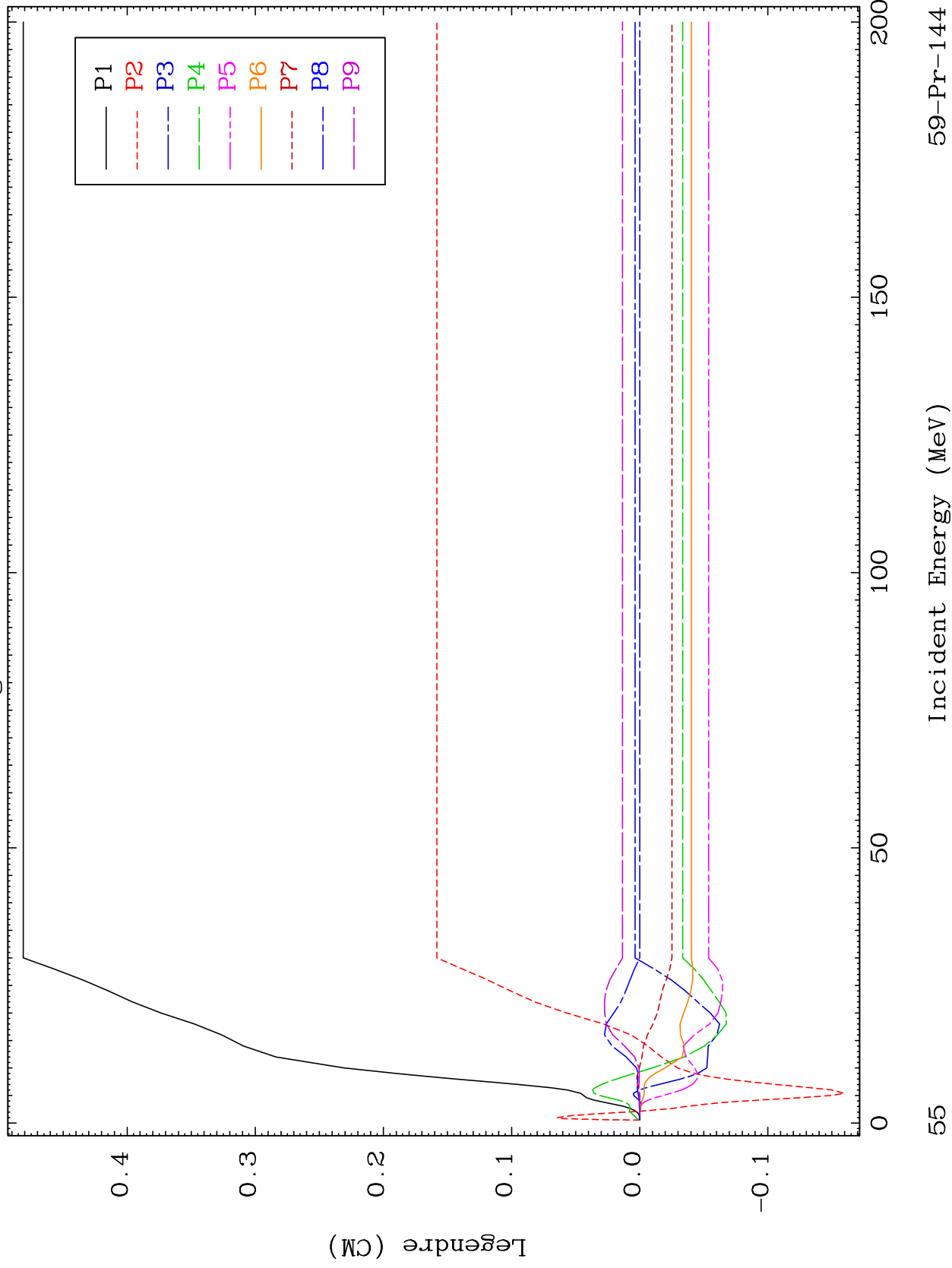
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



59-Pr-144

Incident Energy (MeV)

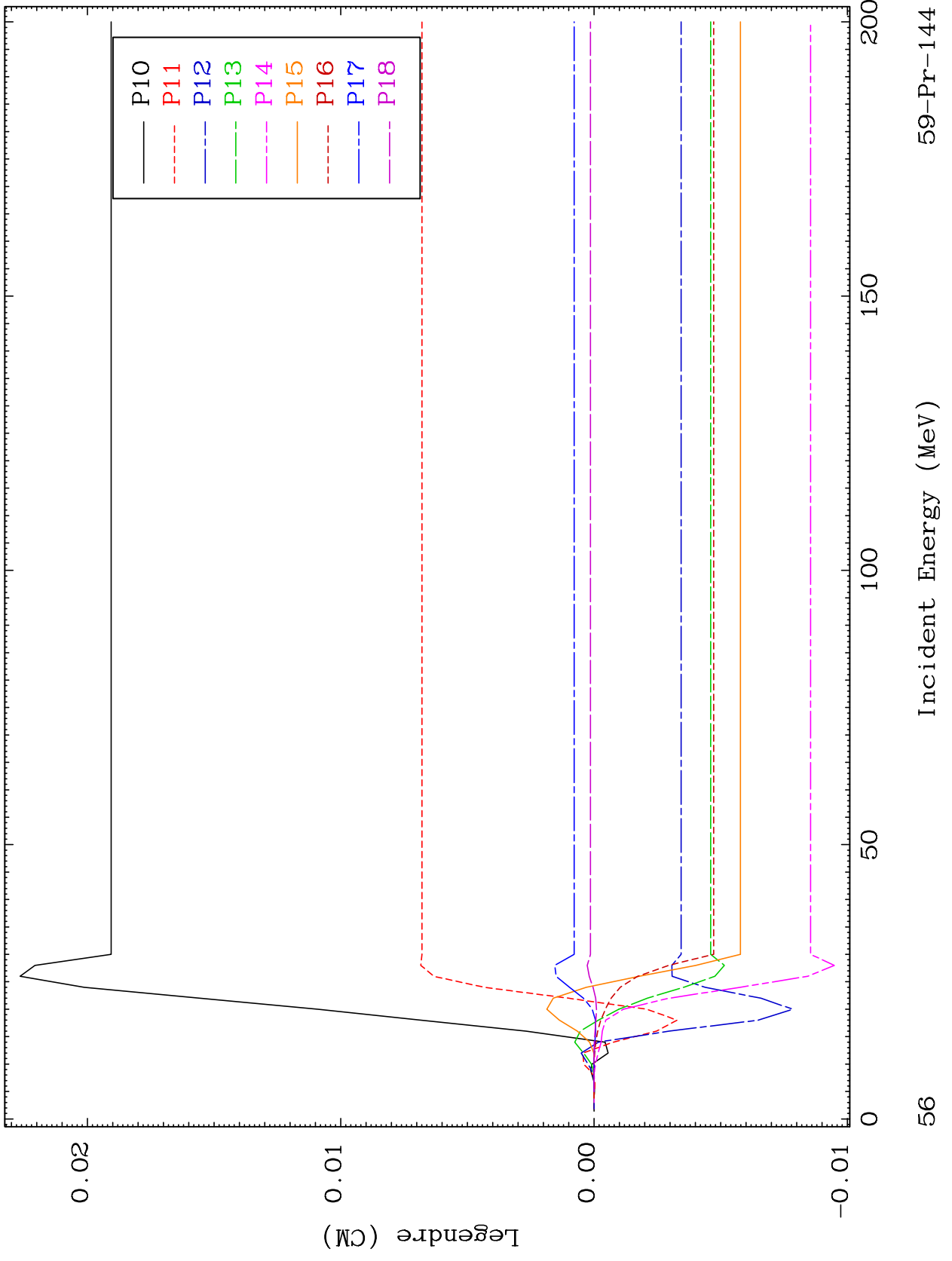
55



MAT 5934

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

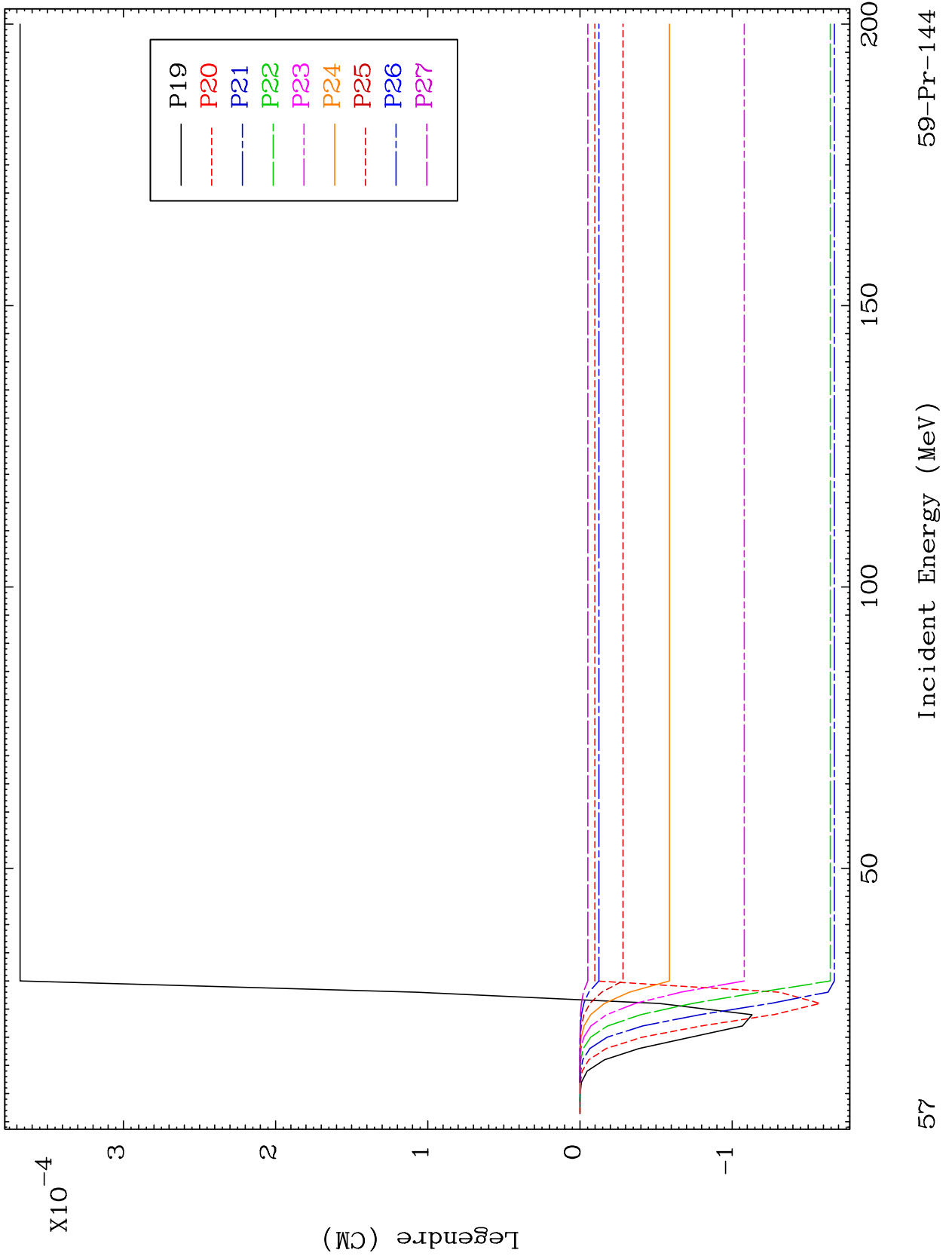
59-Pr-144



56

Incident Energy (MeV)

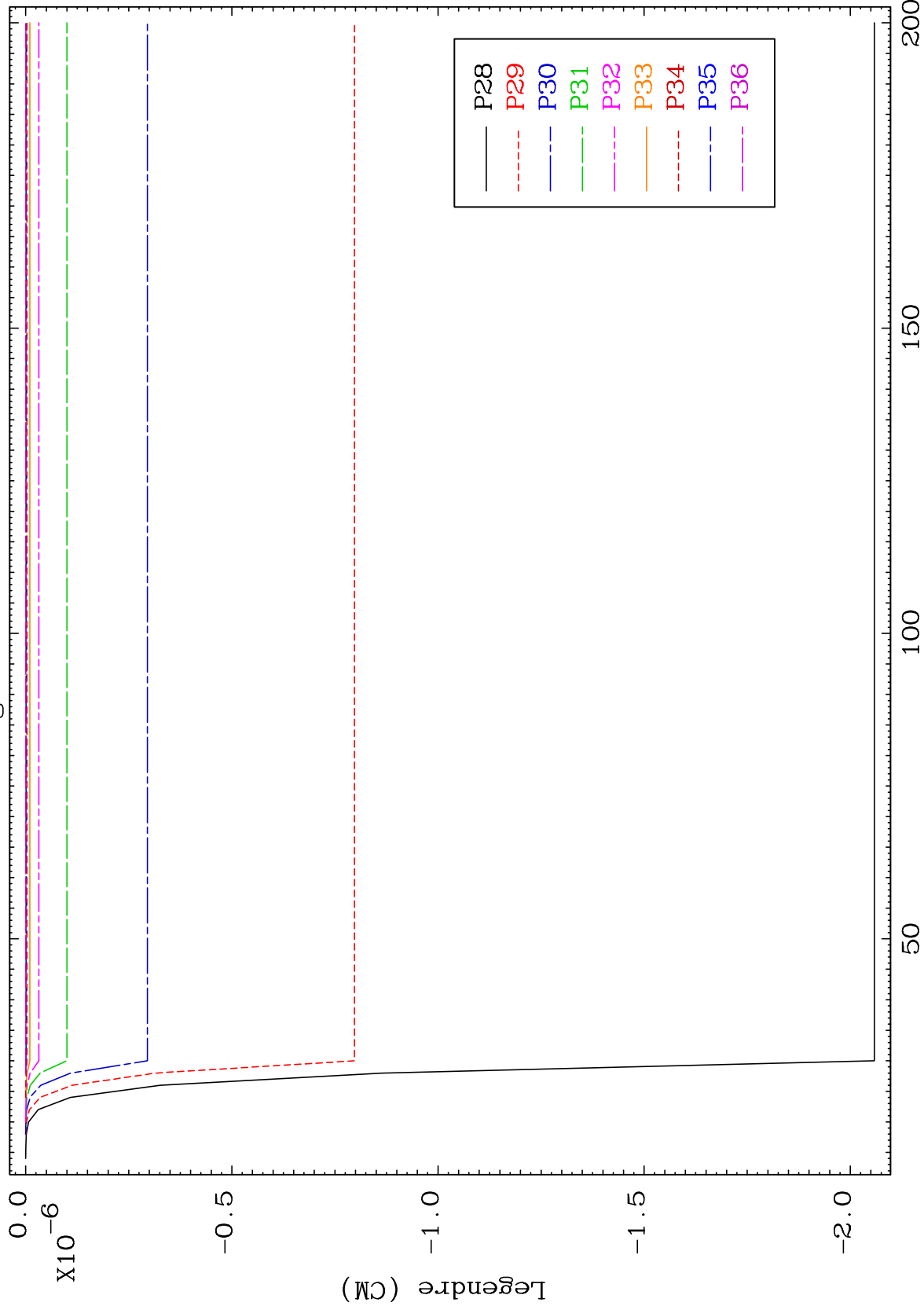
59-Pr-144



MAT 5934

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

59-Pr-144



58

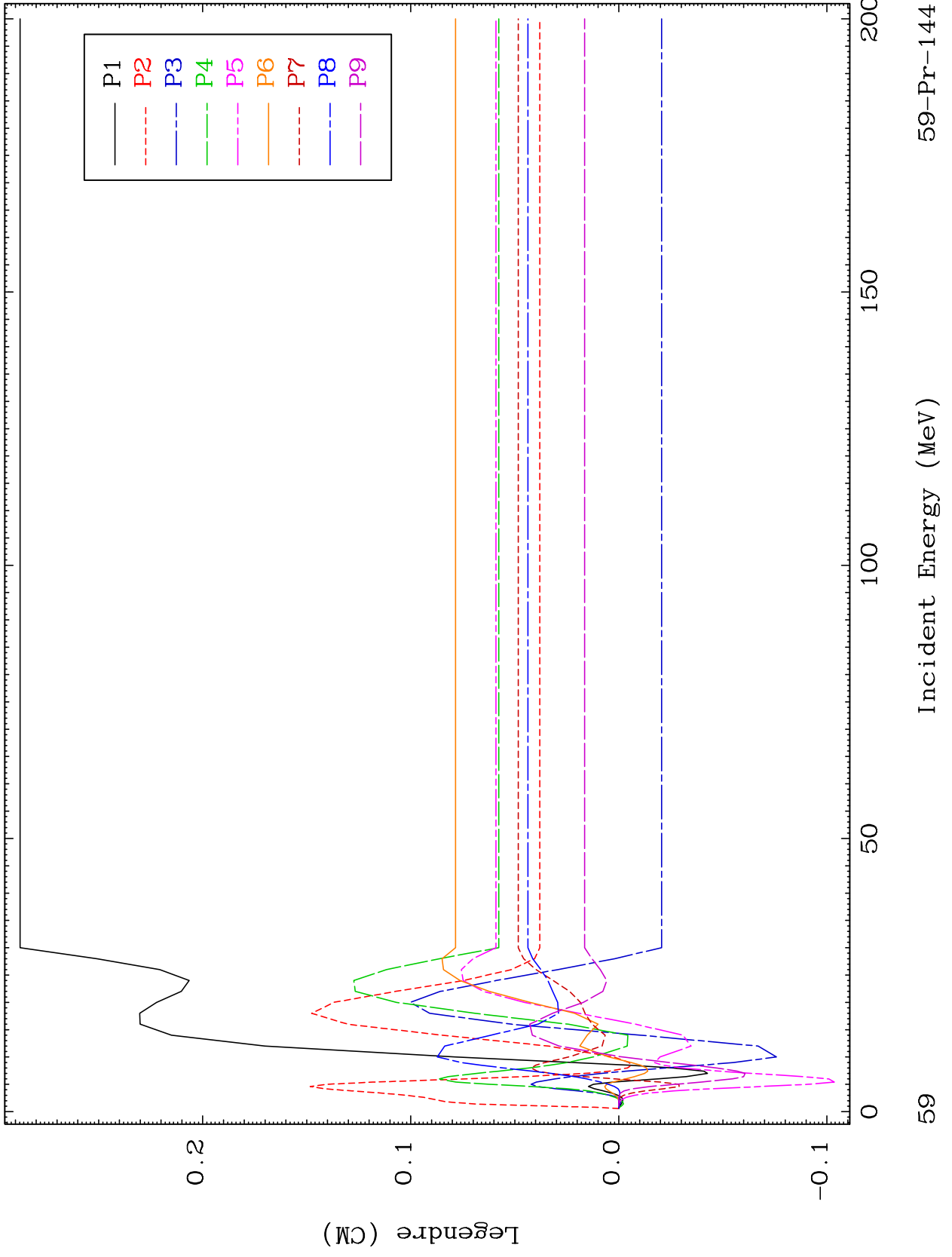
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



59-Pr-144

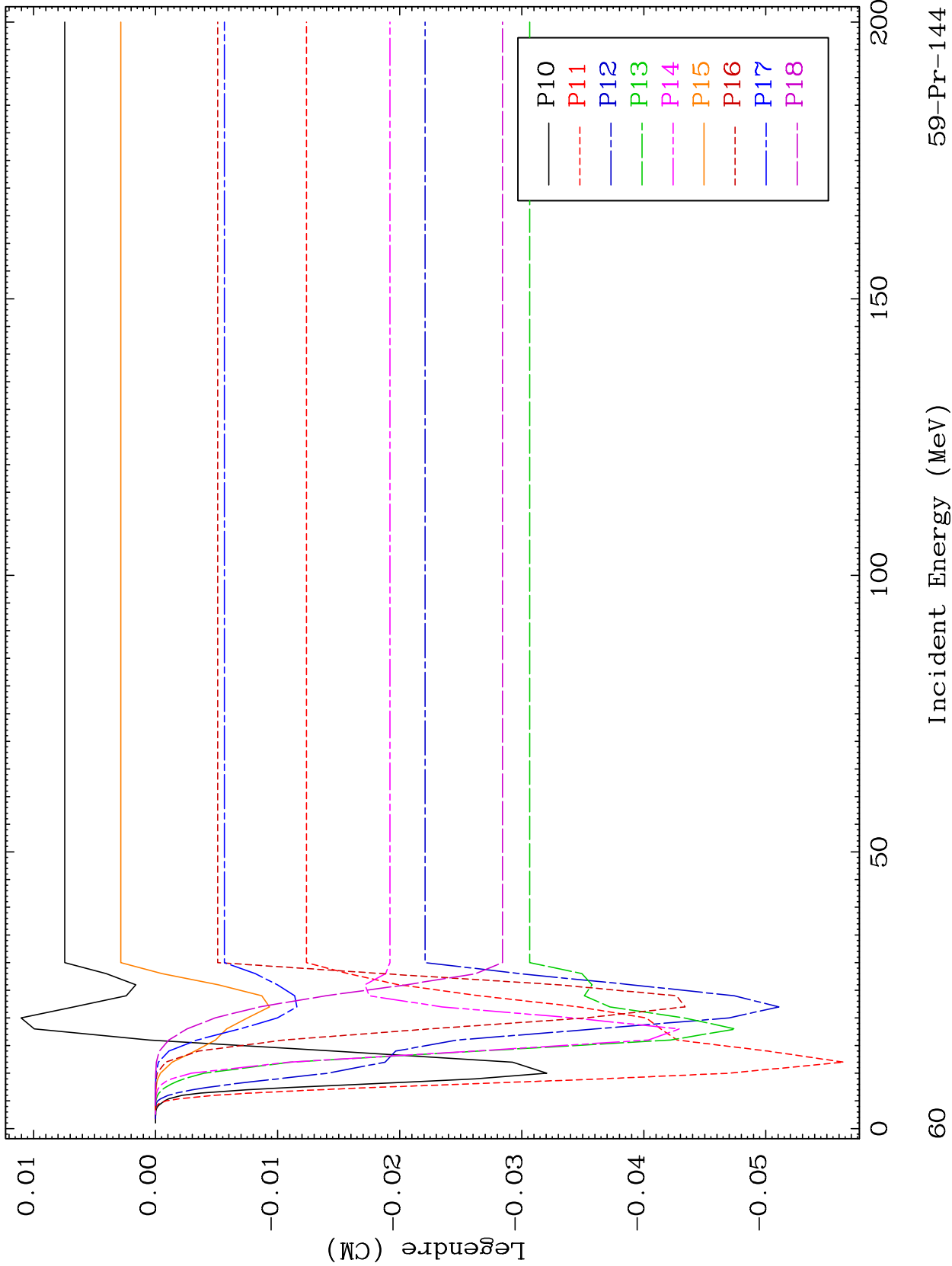
Incident Energy (MeV)

59

MAT 5934

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

59-Pr-144

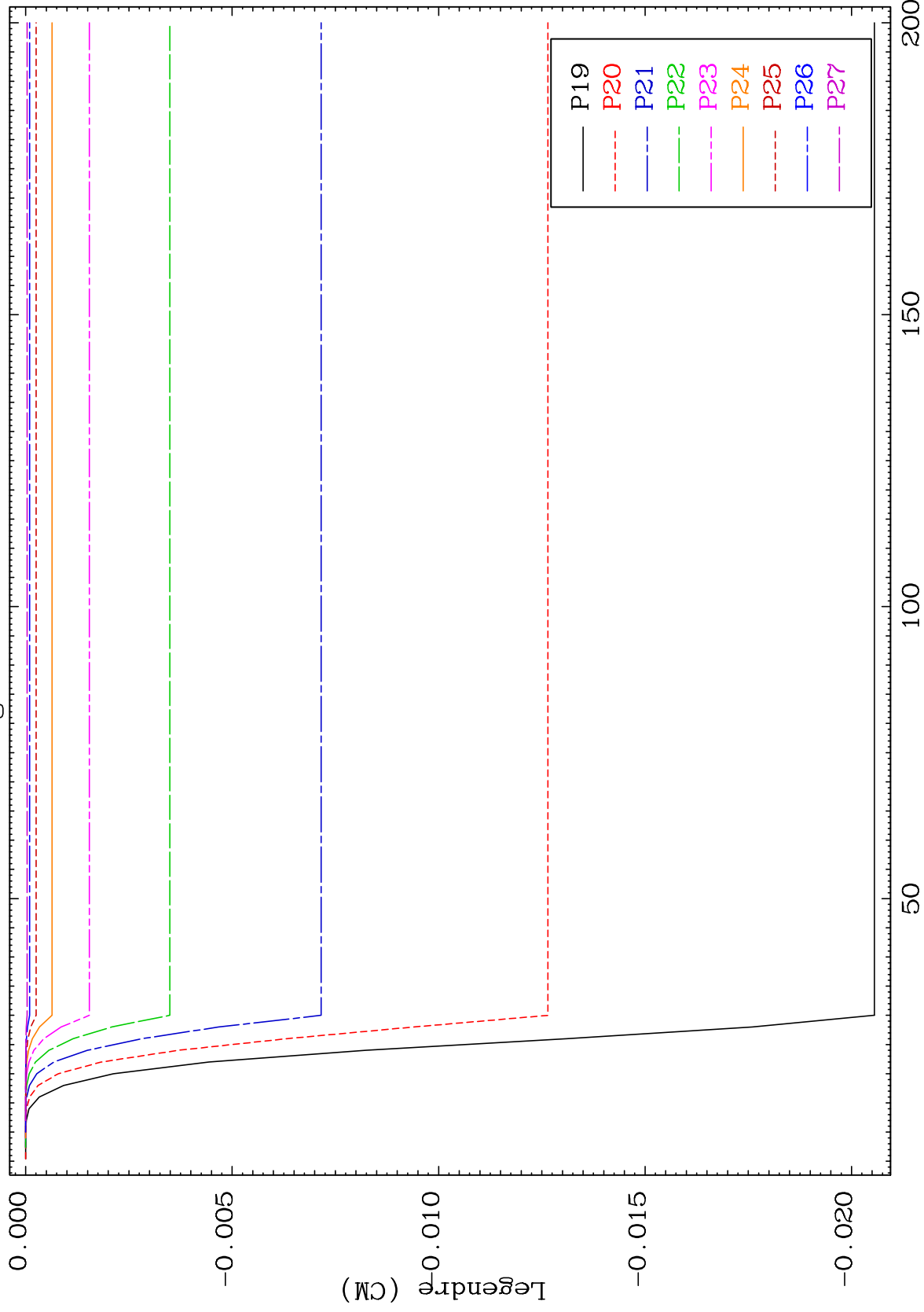


59-Pr-144

MAT 5934

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

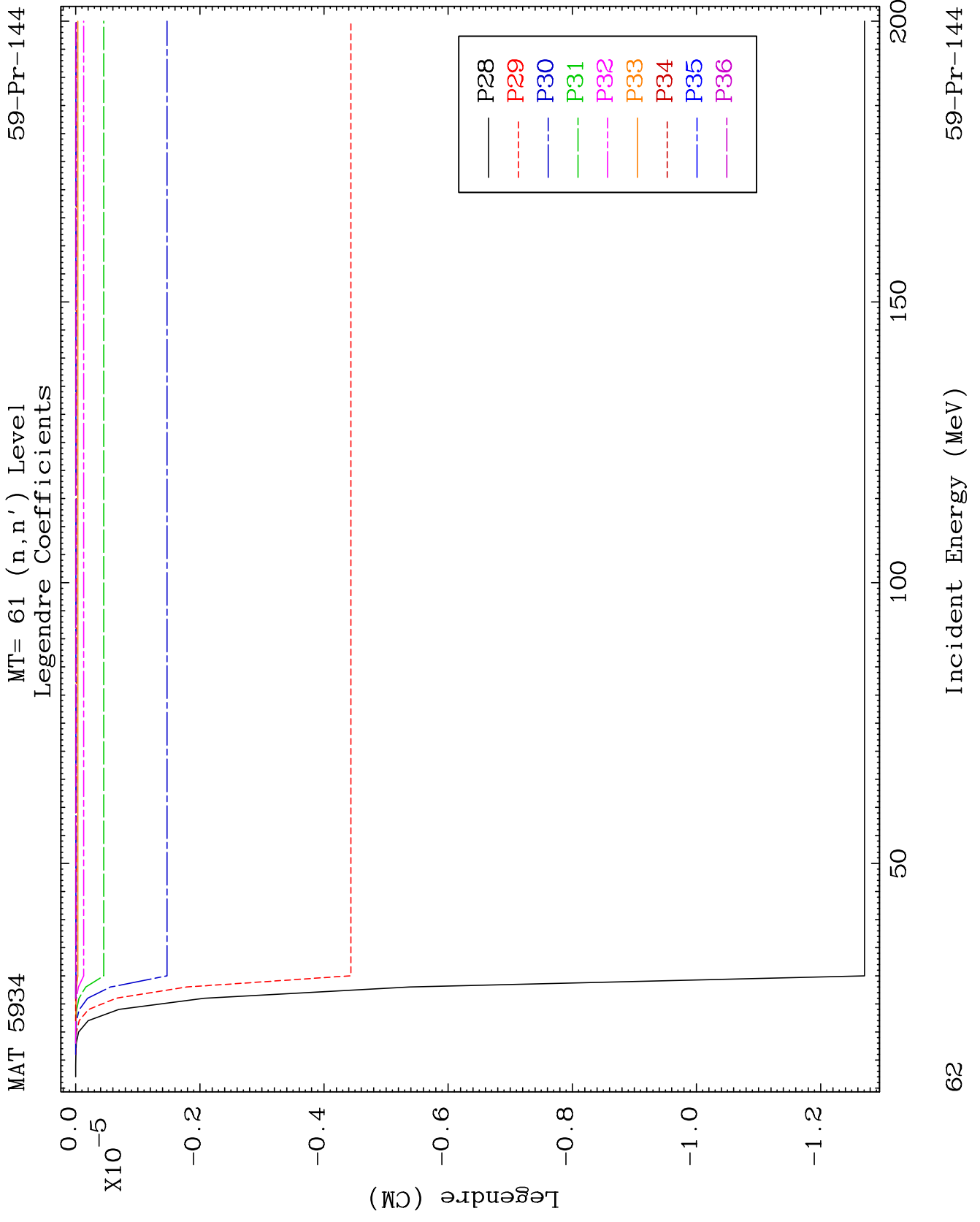
59-Pr-144



61

Incident Energy (MeV)

59-Pr-144



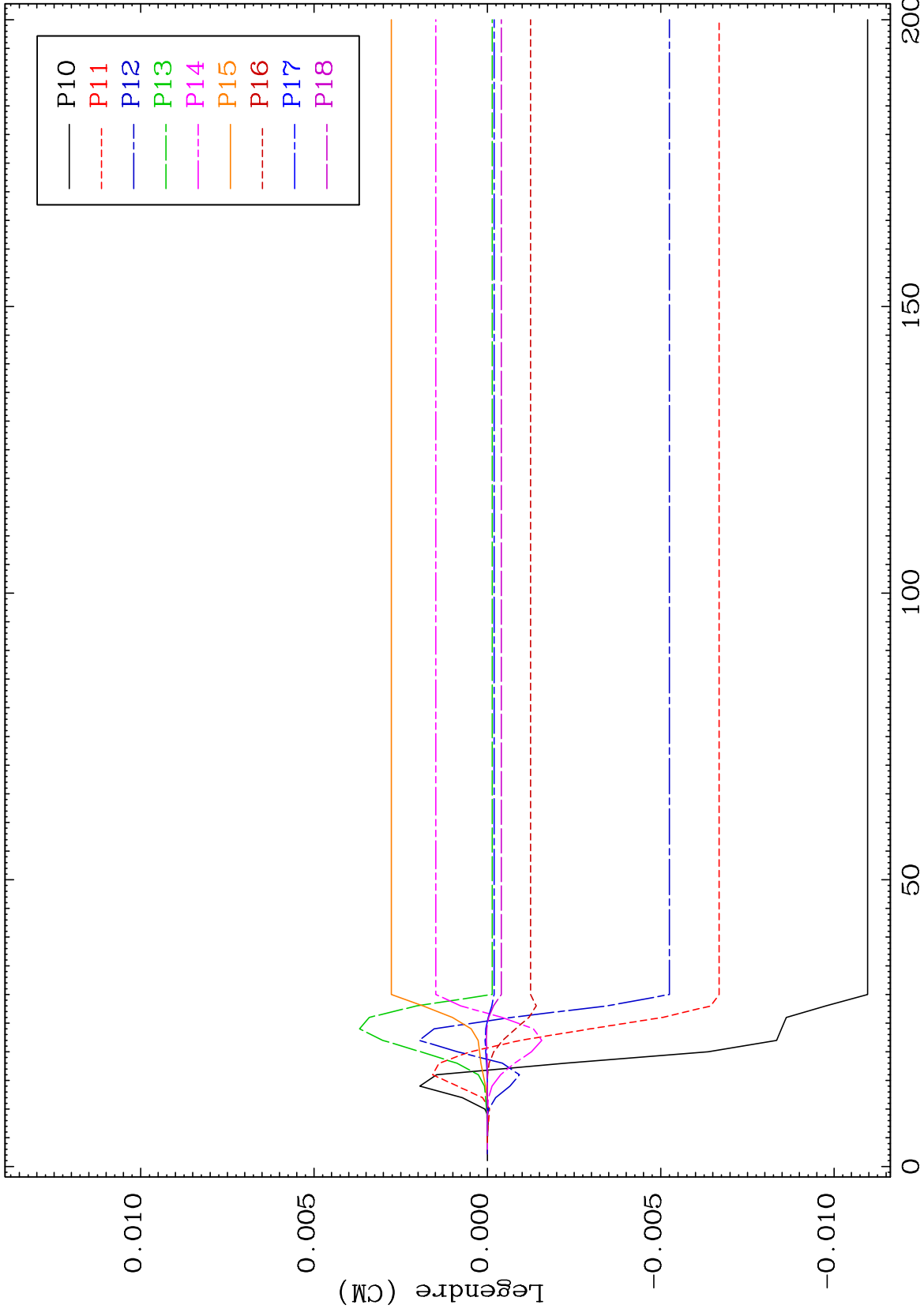




MAT 5934

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

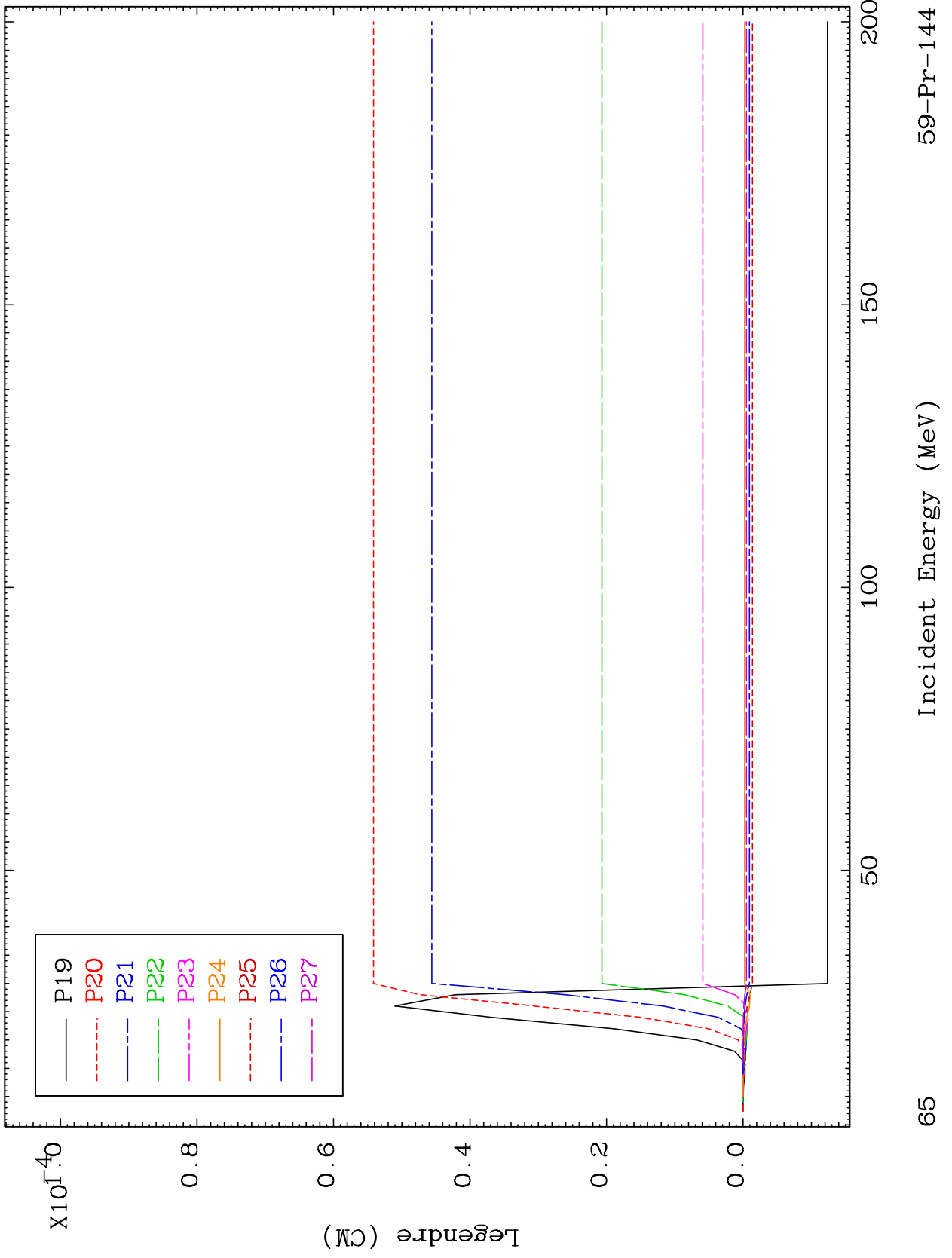
59-Pr-144



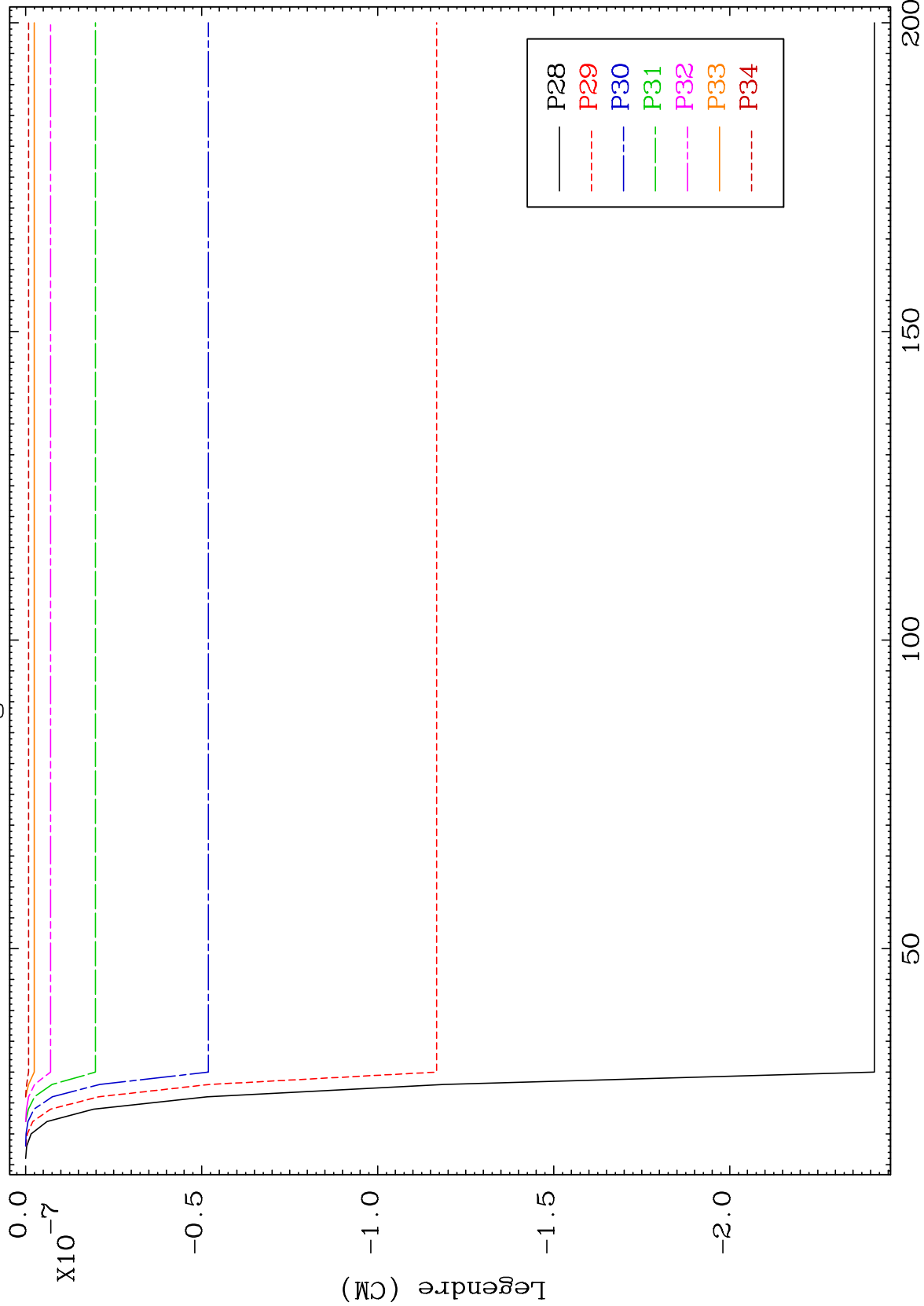
64

Incident Energy (MeV)

59-Pr-144



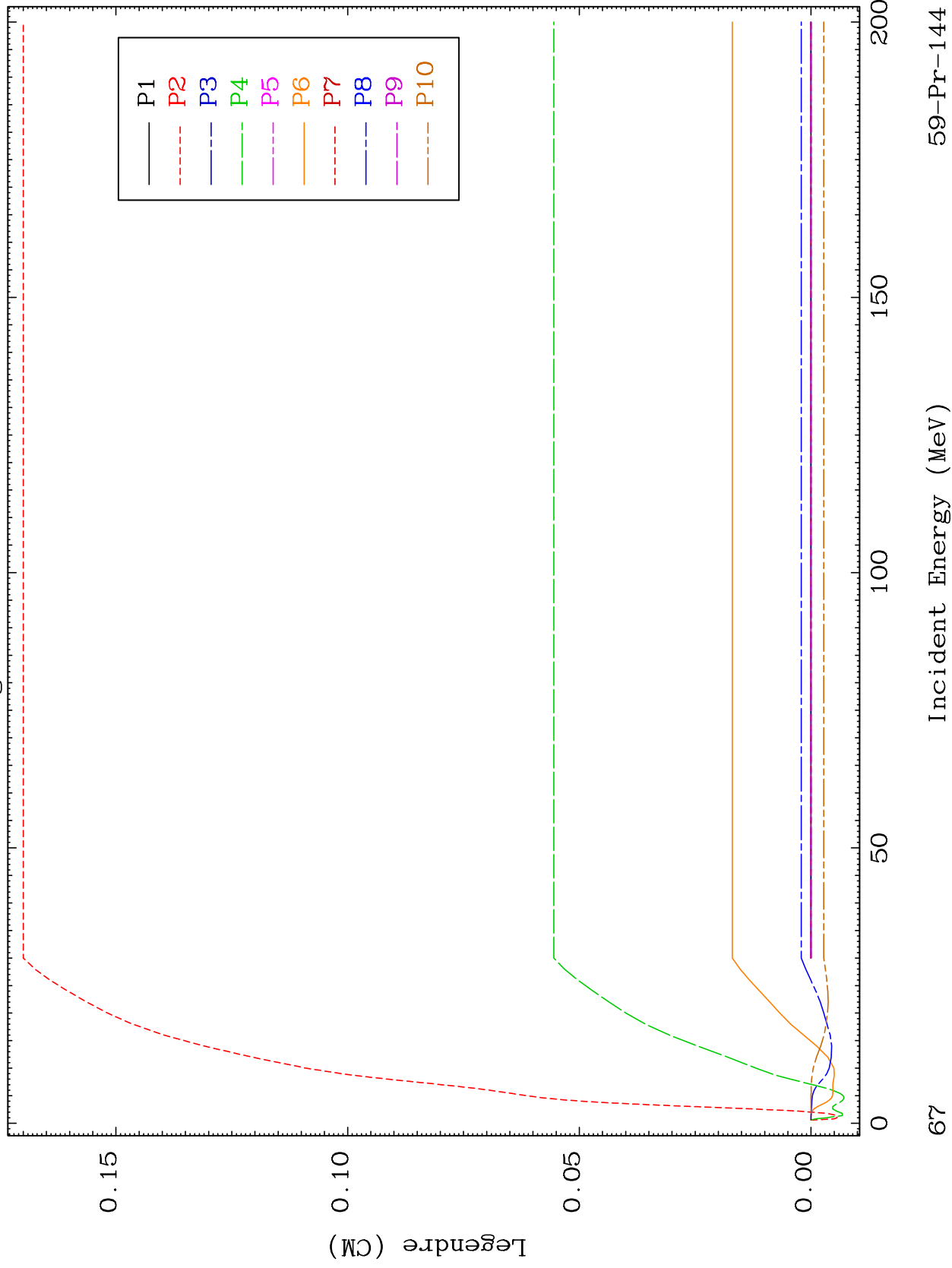
Legendre Coefficients



MAT 5934

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

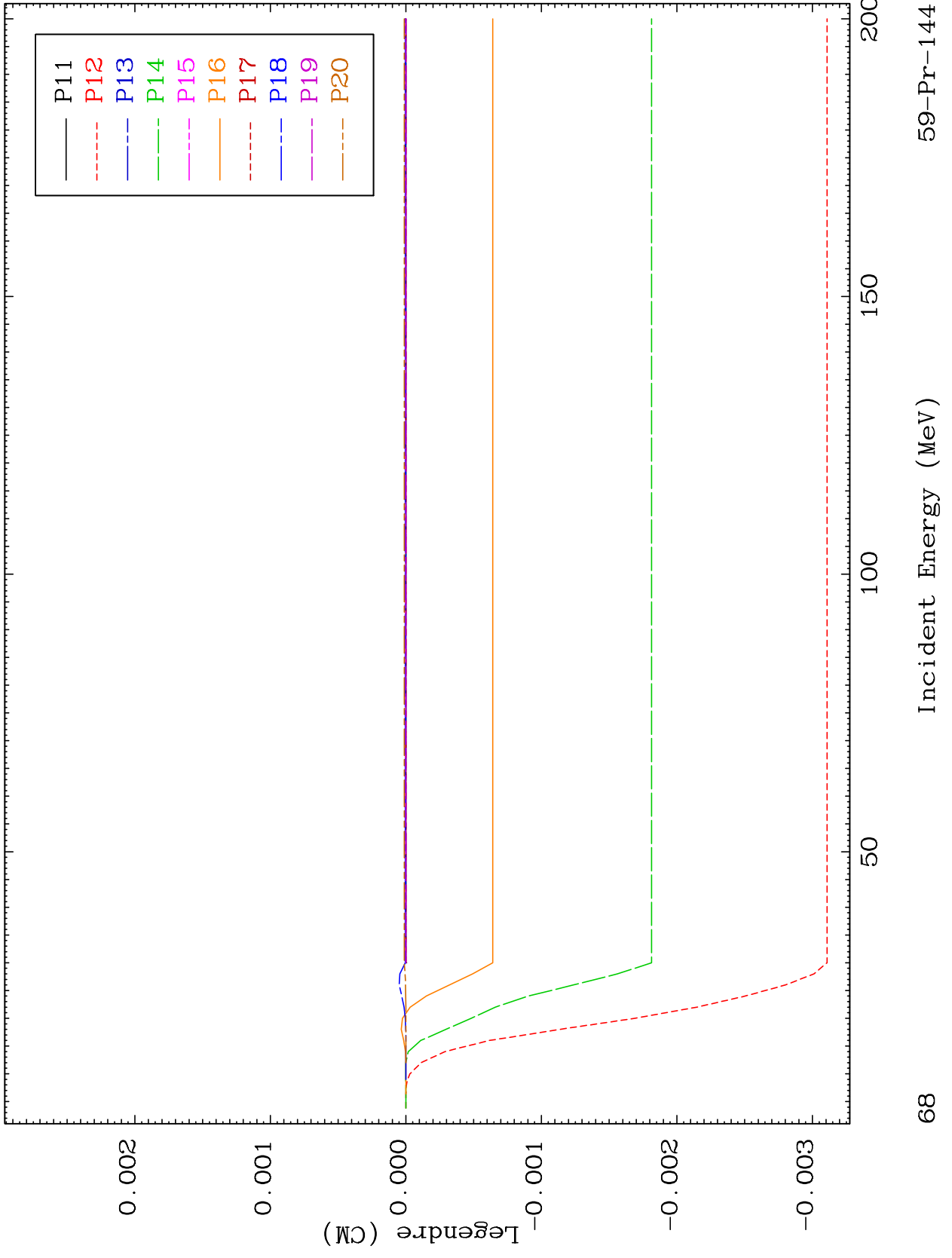
59-Pr-144



MAT 5934

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

59-Pr-144



68

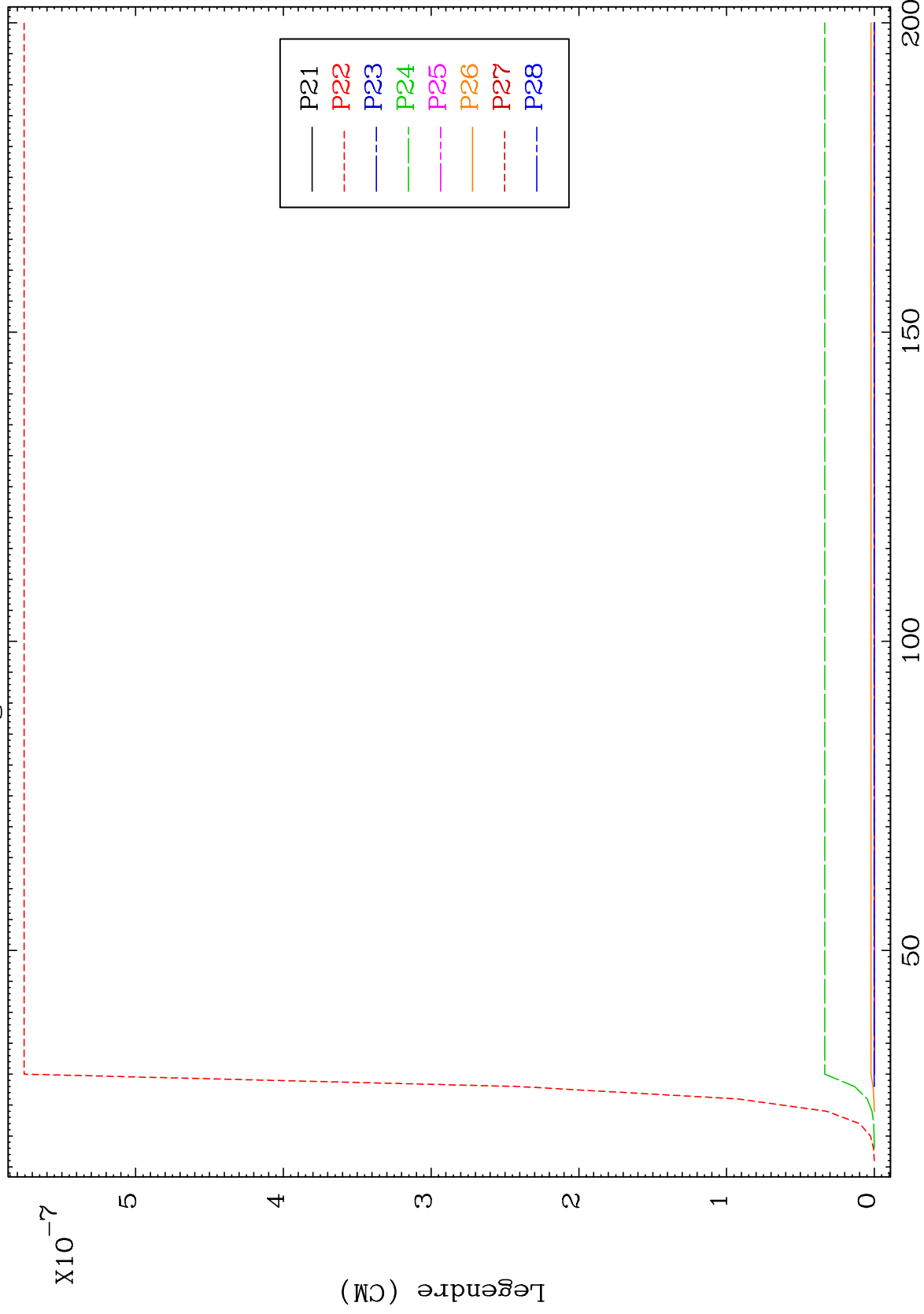
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



69

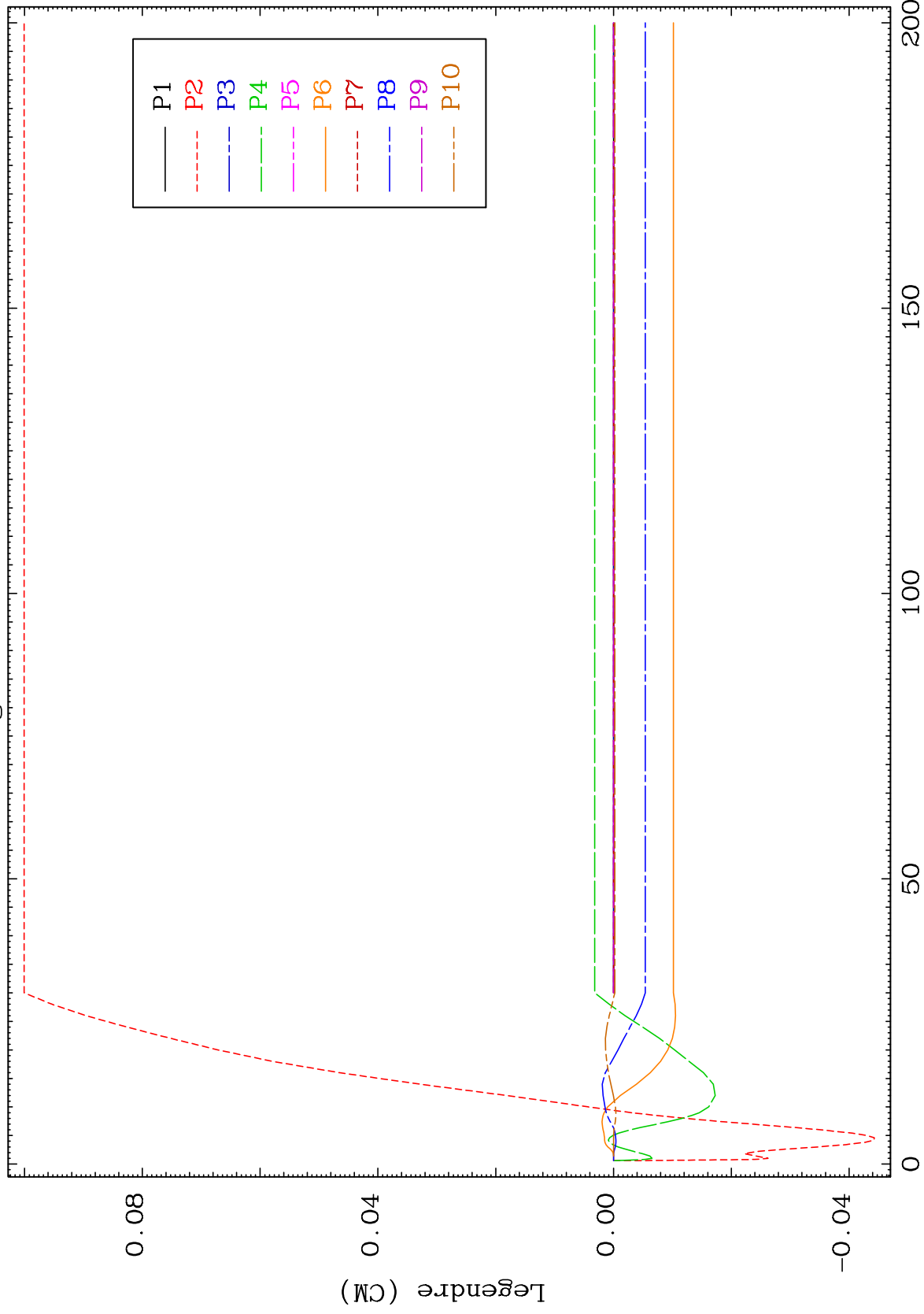
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



59-Pr-144

Incident Energy (MeV)

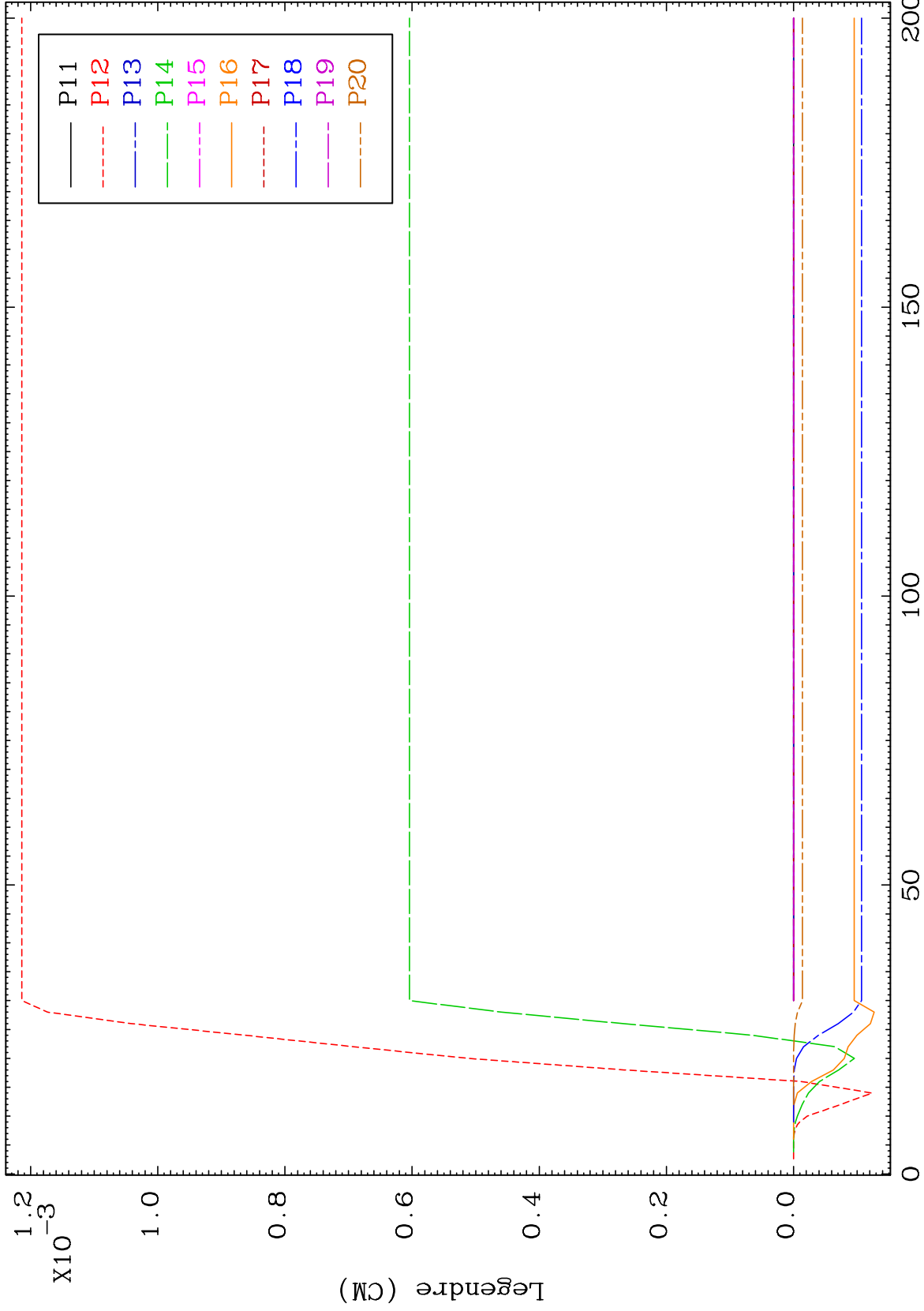
70

MAT 5934

MT= 64 (n,n') Level

59-Pr-144

Legendre Coefficients



71

Incident Energy (MeV)

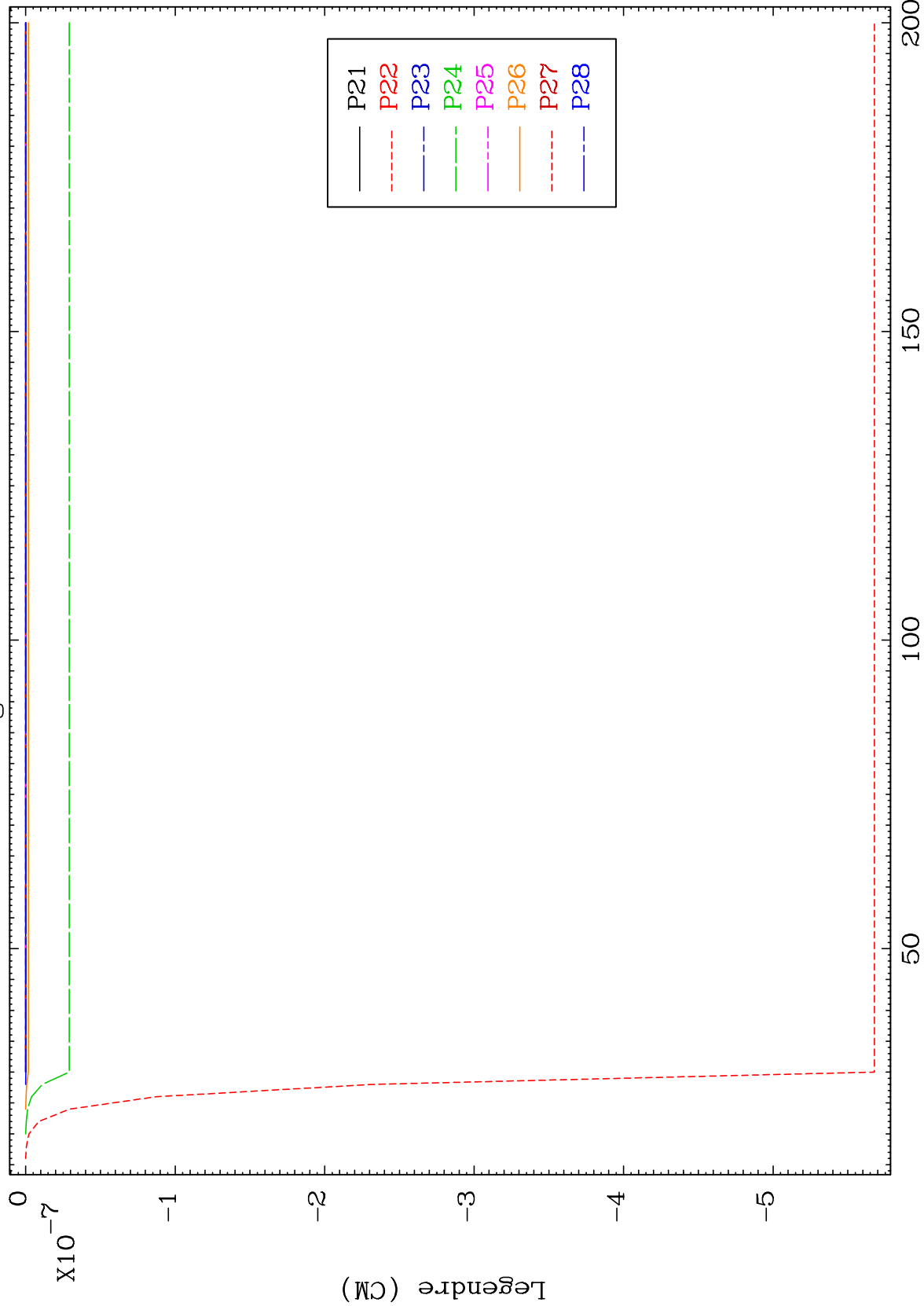
59-Pr-144



MAT 5934

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

59-Pr-144



72

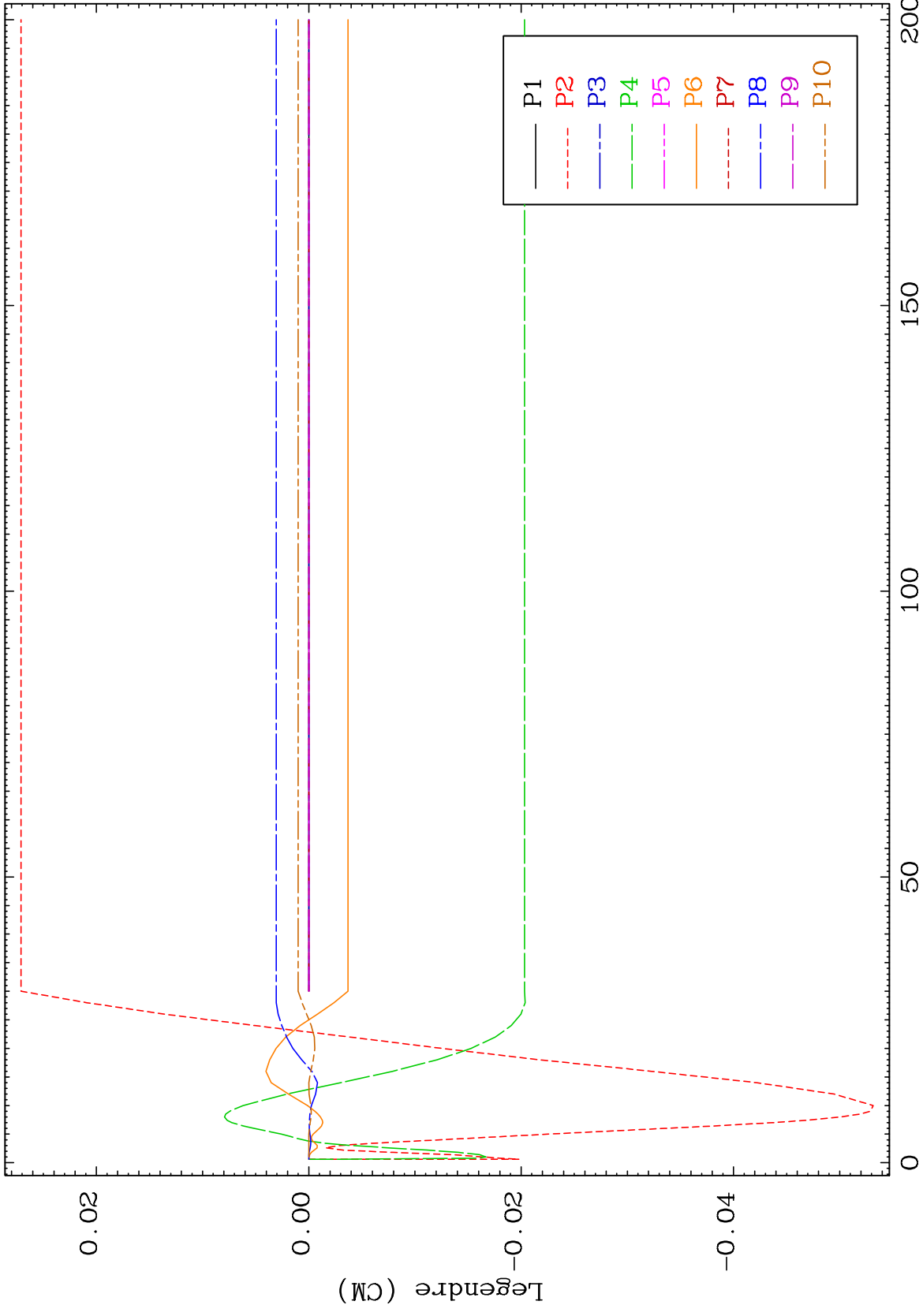
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



73

Incident Energy (MeV)

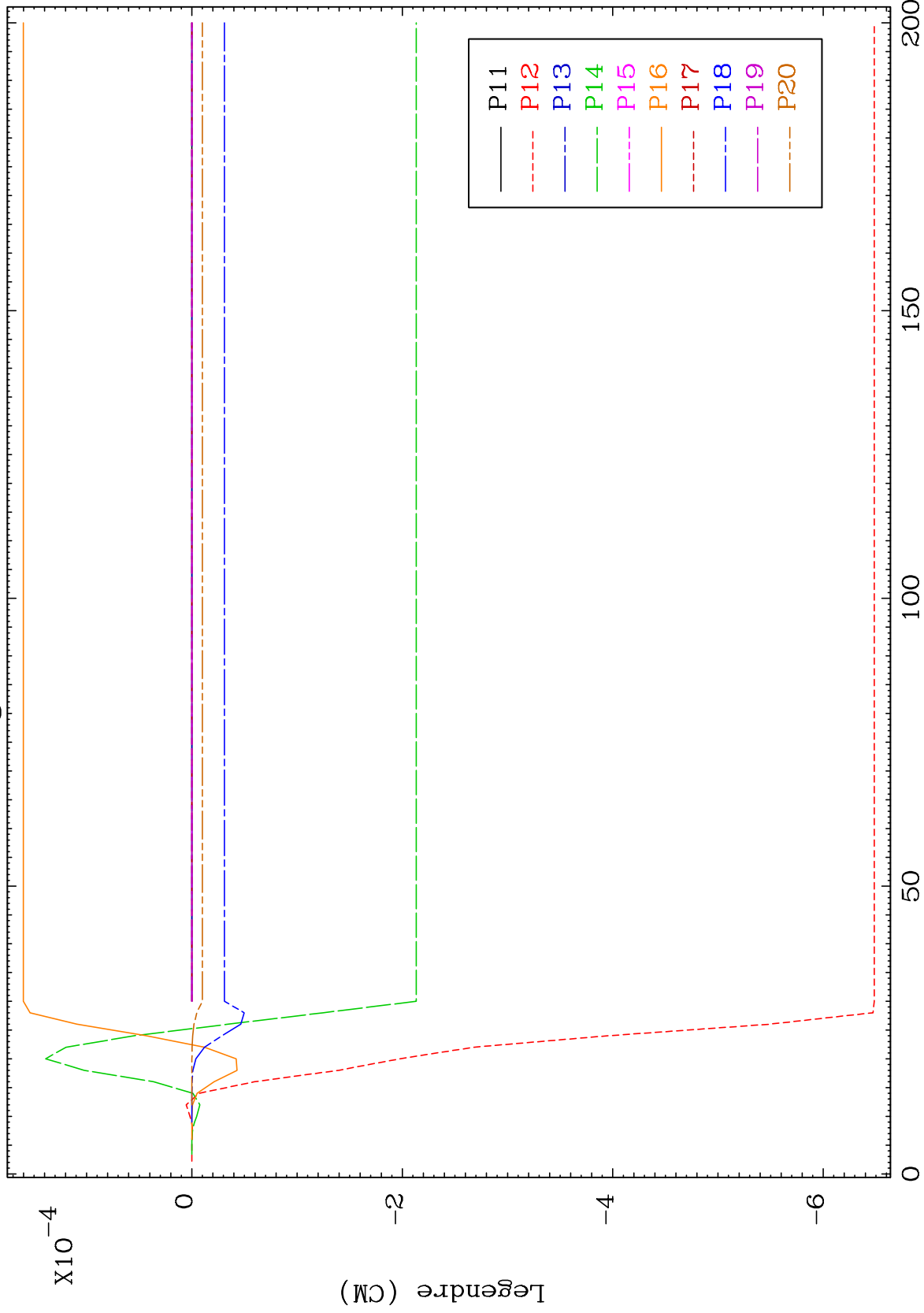
59-Pr-144

MAT 5934

MT= 65 (n,n') Level

59-Pr-144

Legendre Coefficients



74

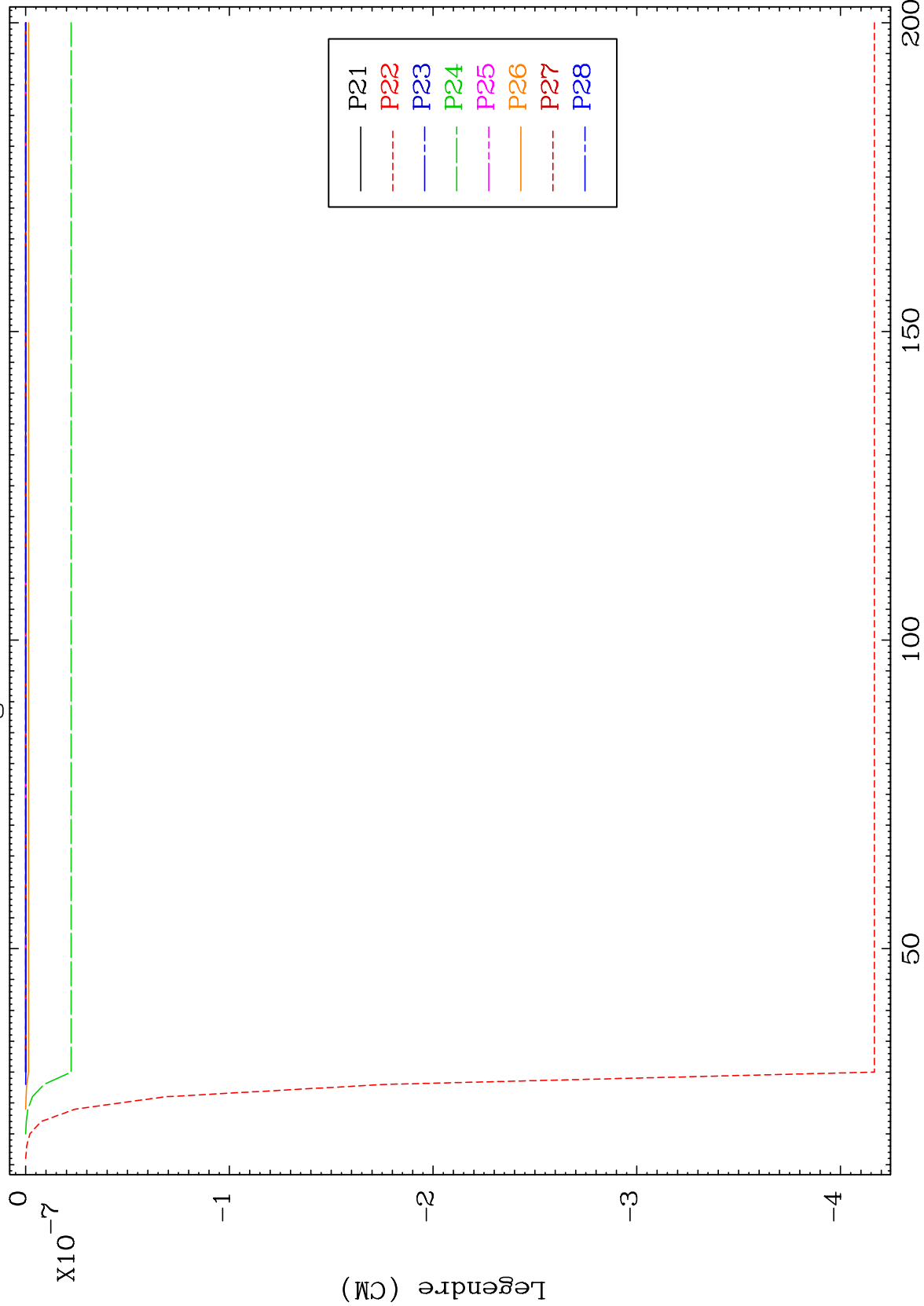
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



59-Pr-144

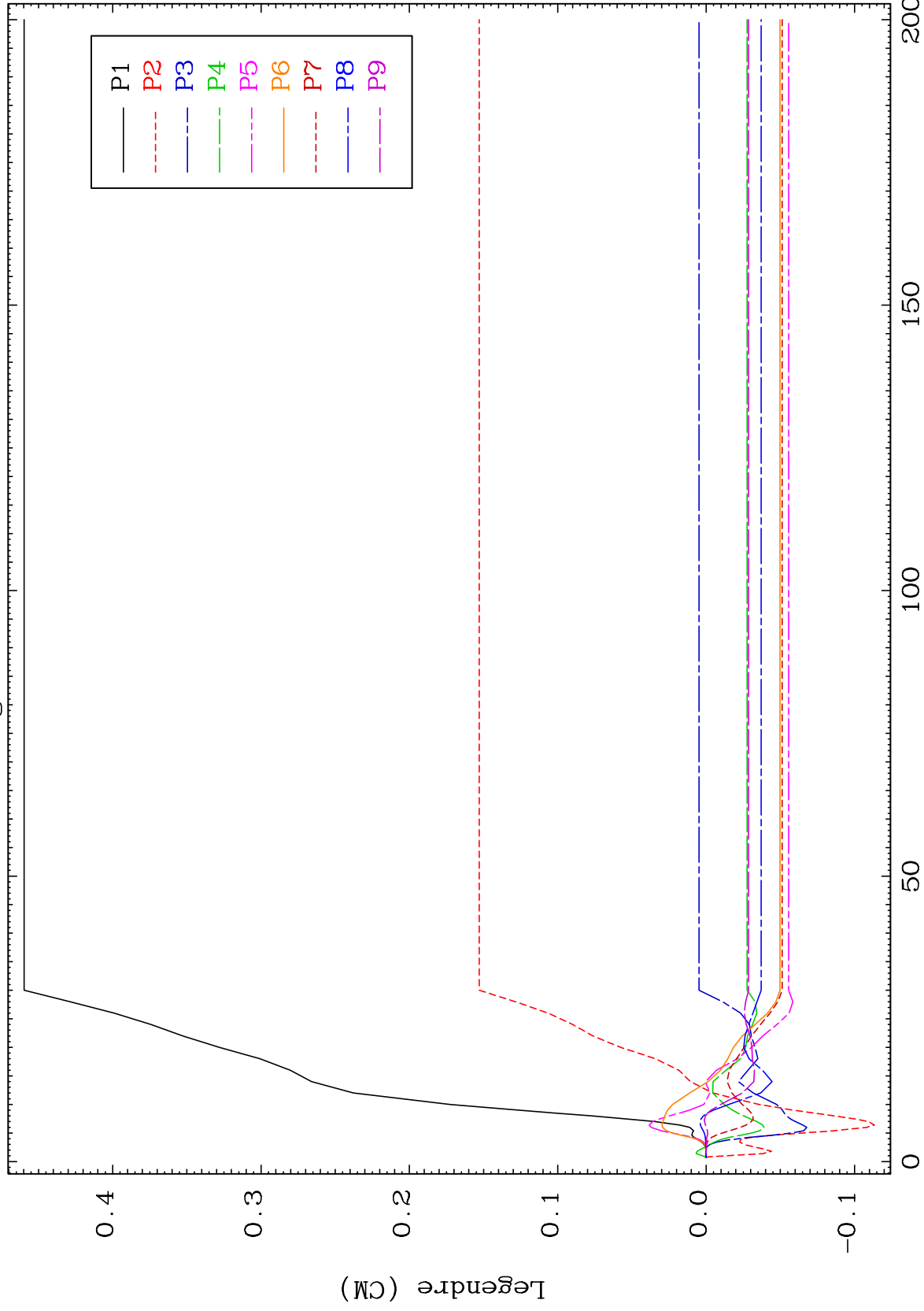
Incident Energy (MeV)

75

MAT 5934

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

59-Pr-144



76

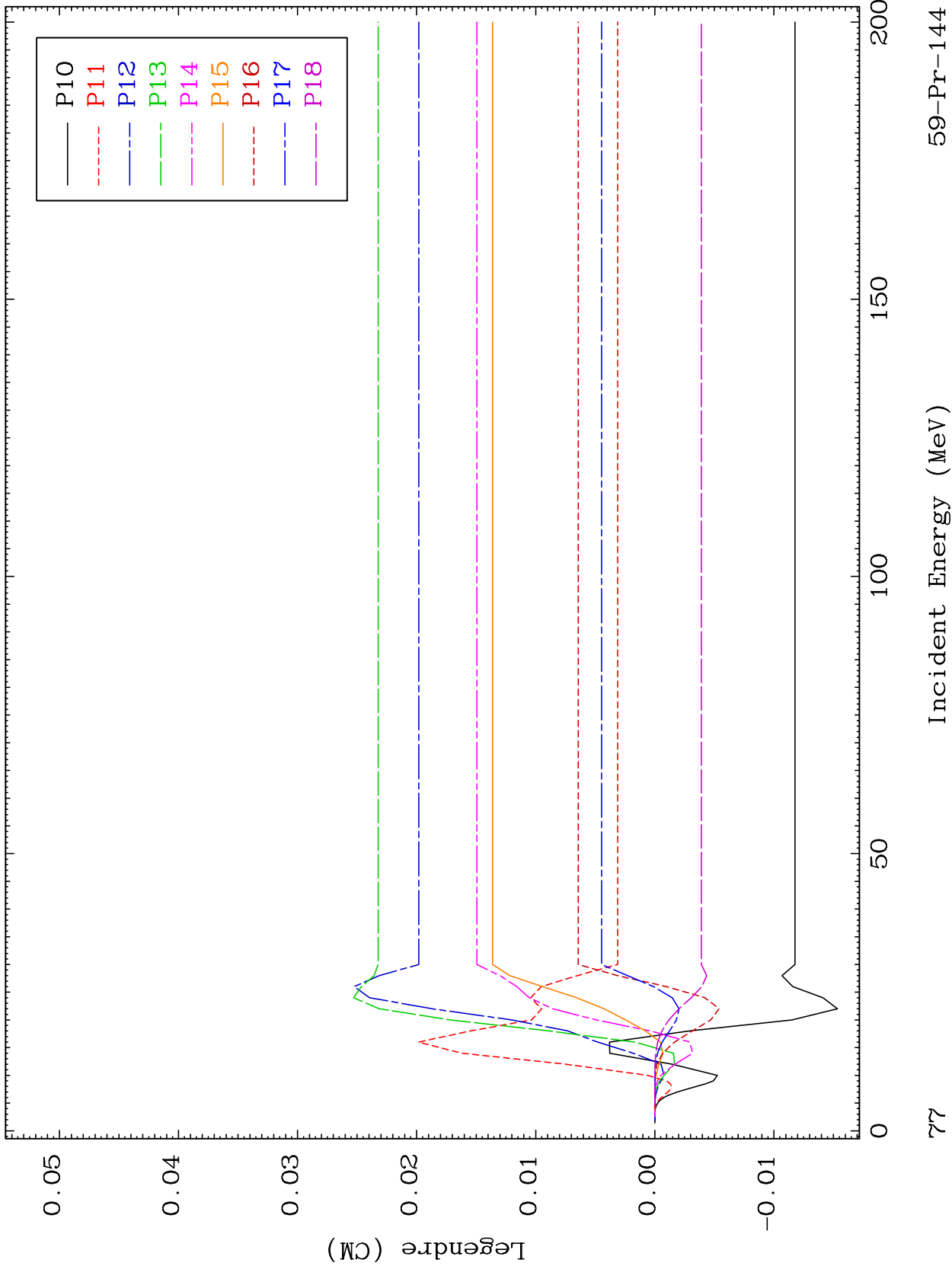
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



77

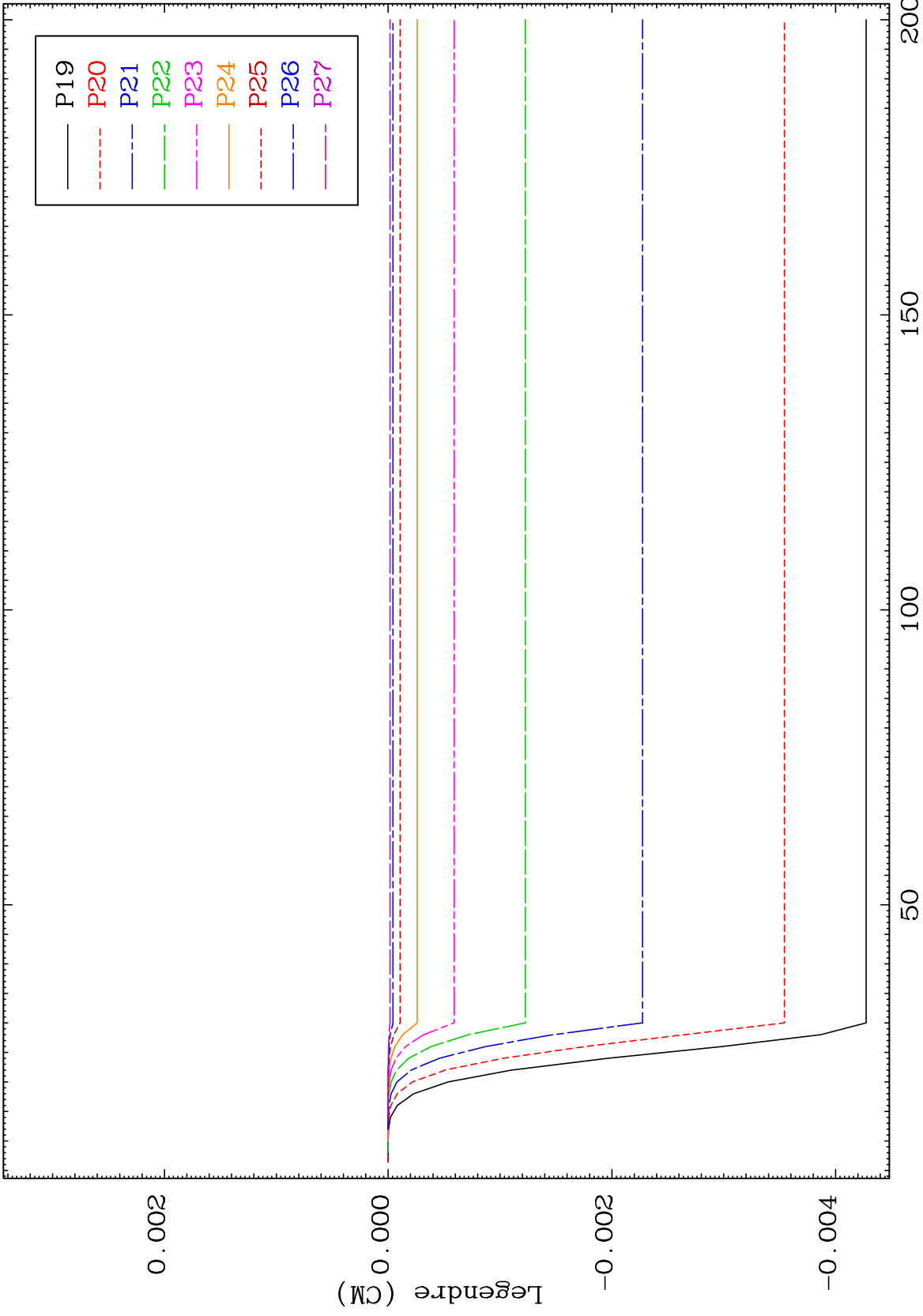
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



78

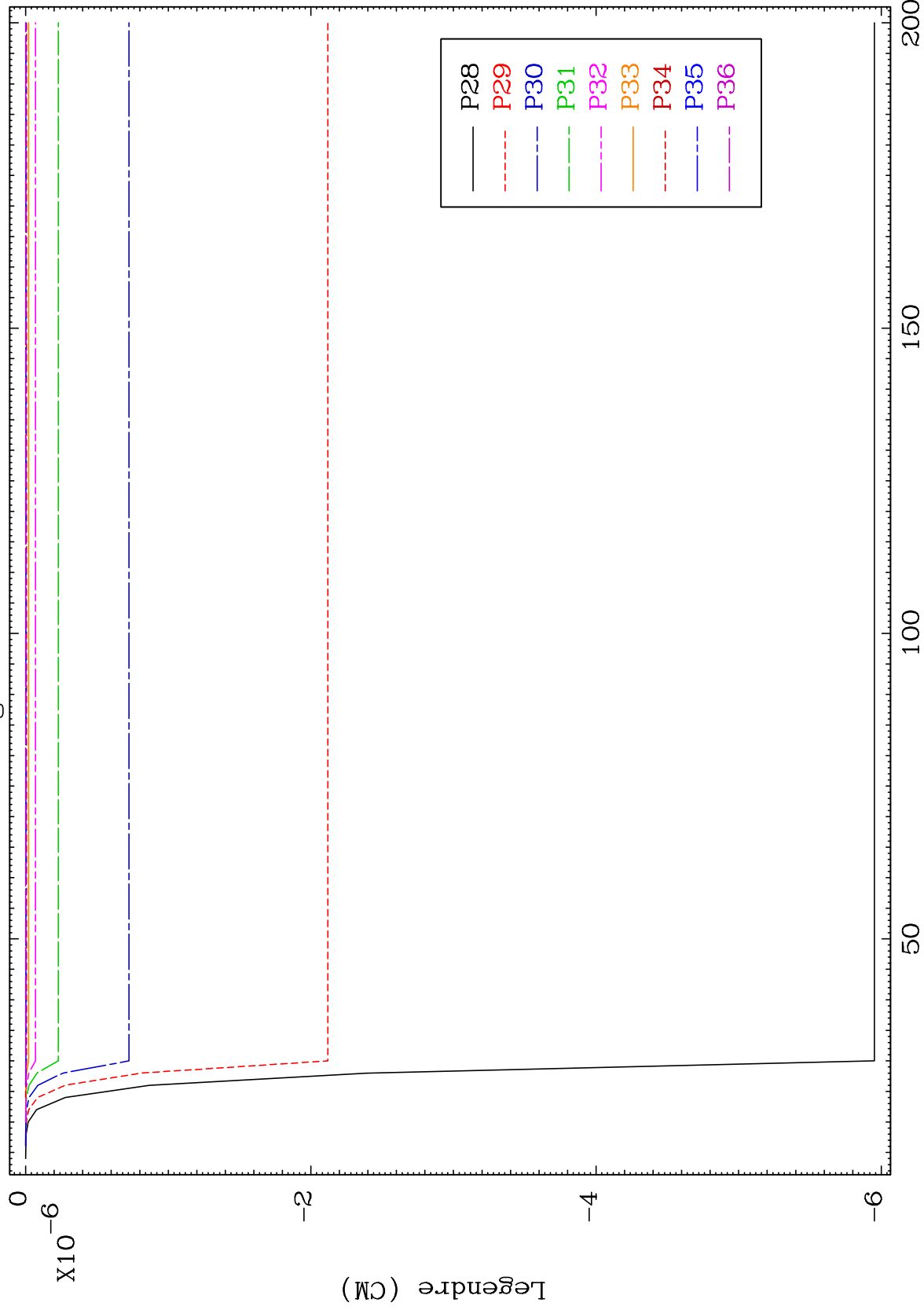
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



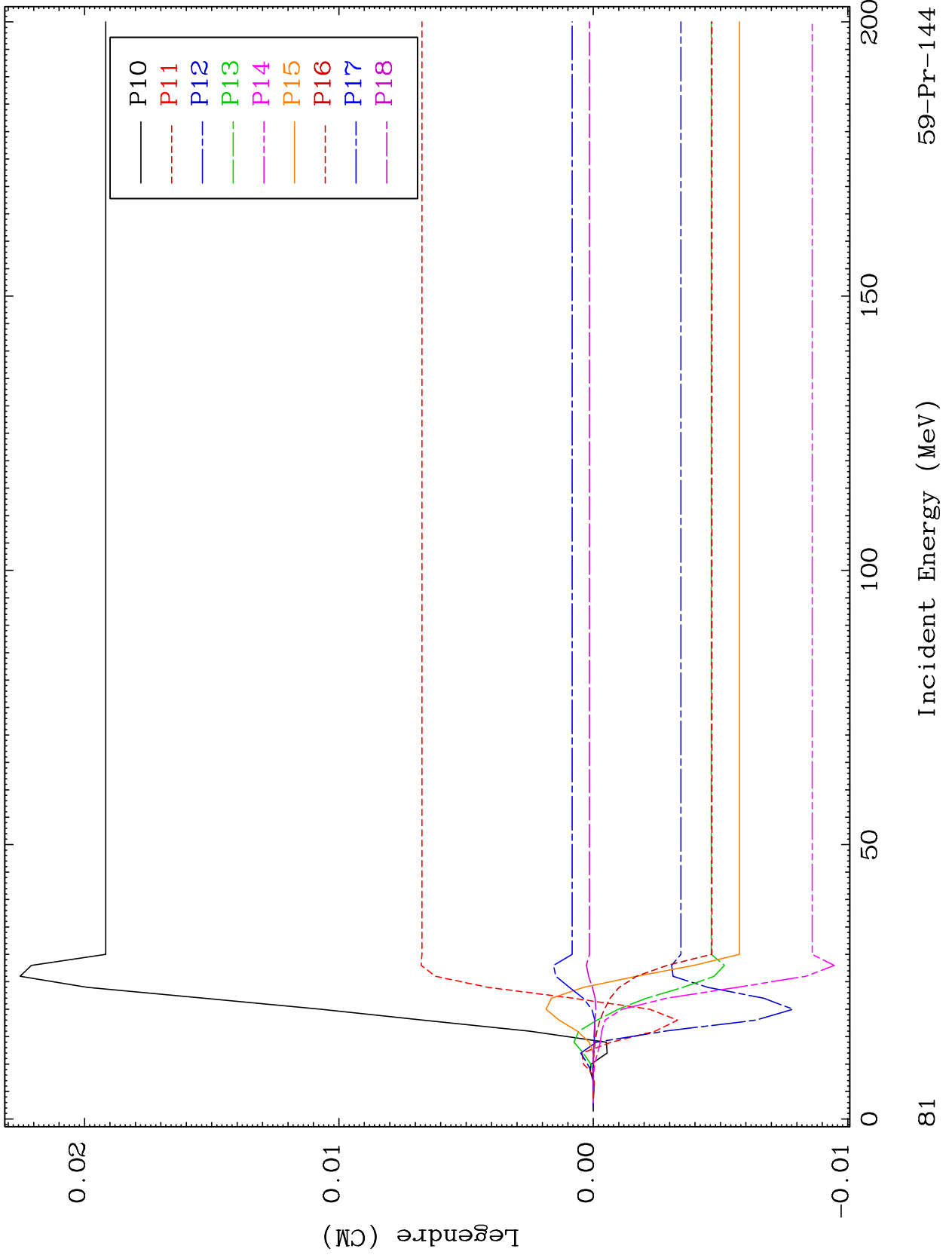
79

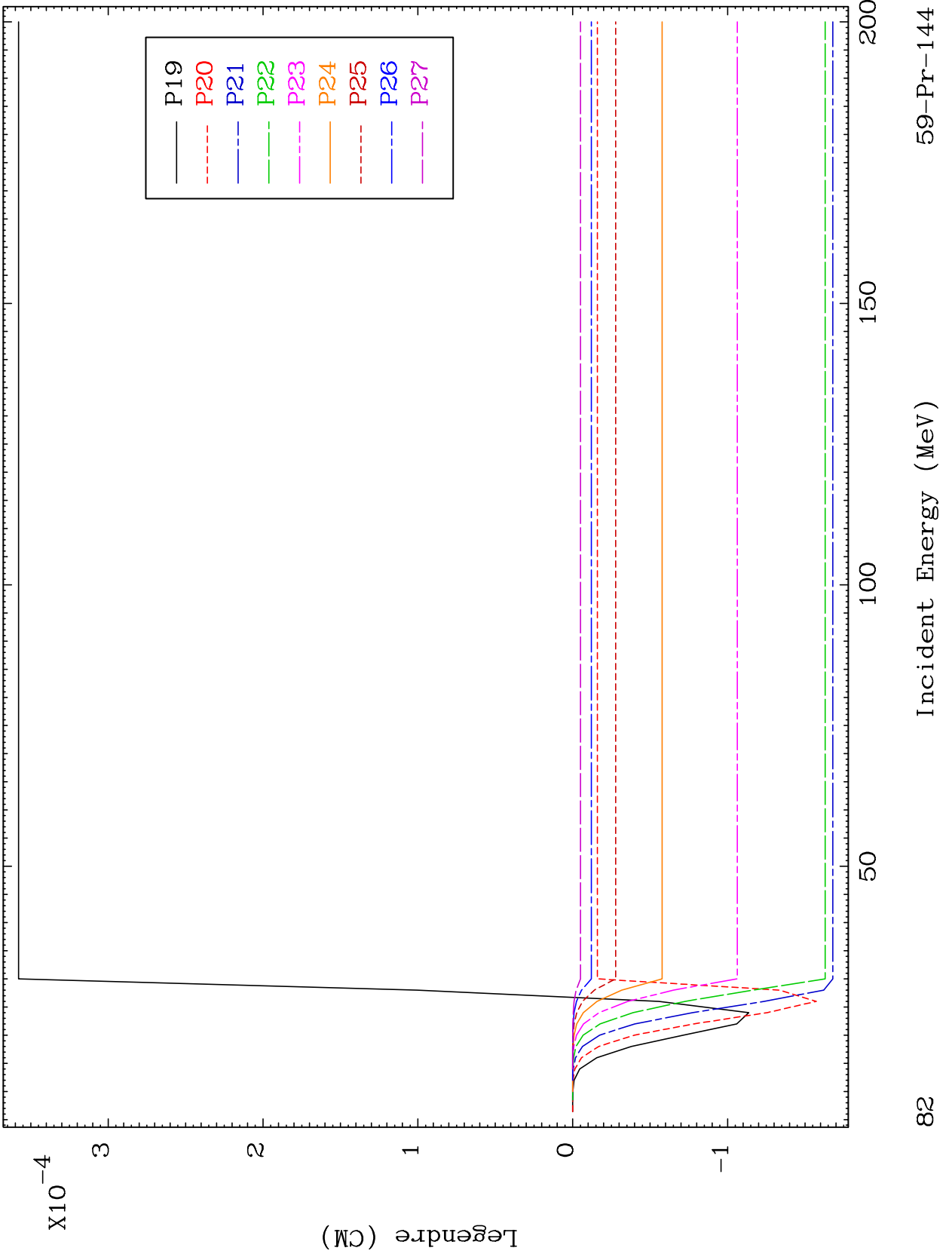
Incident Energy (MeV)

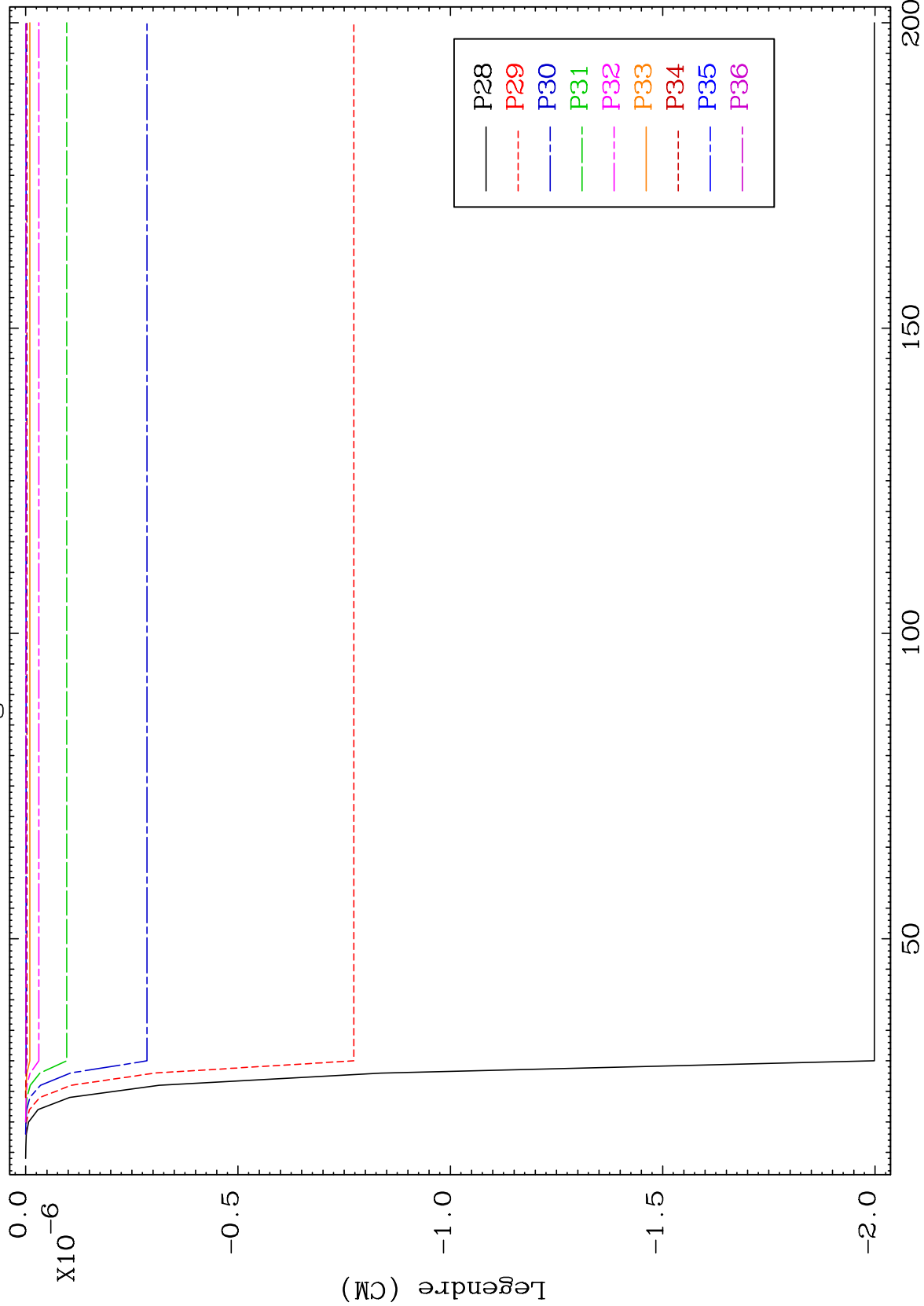
59-Pr-144







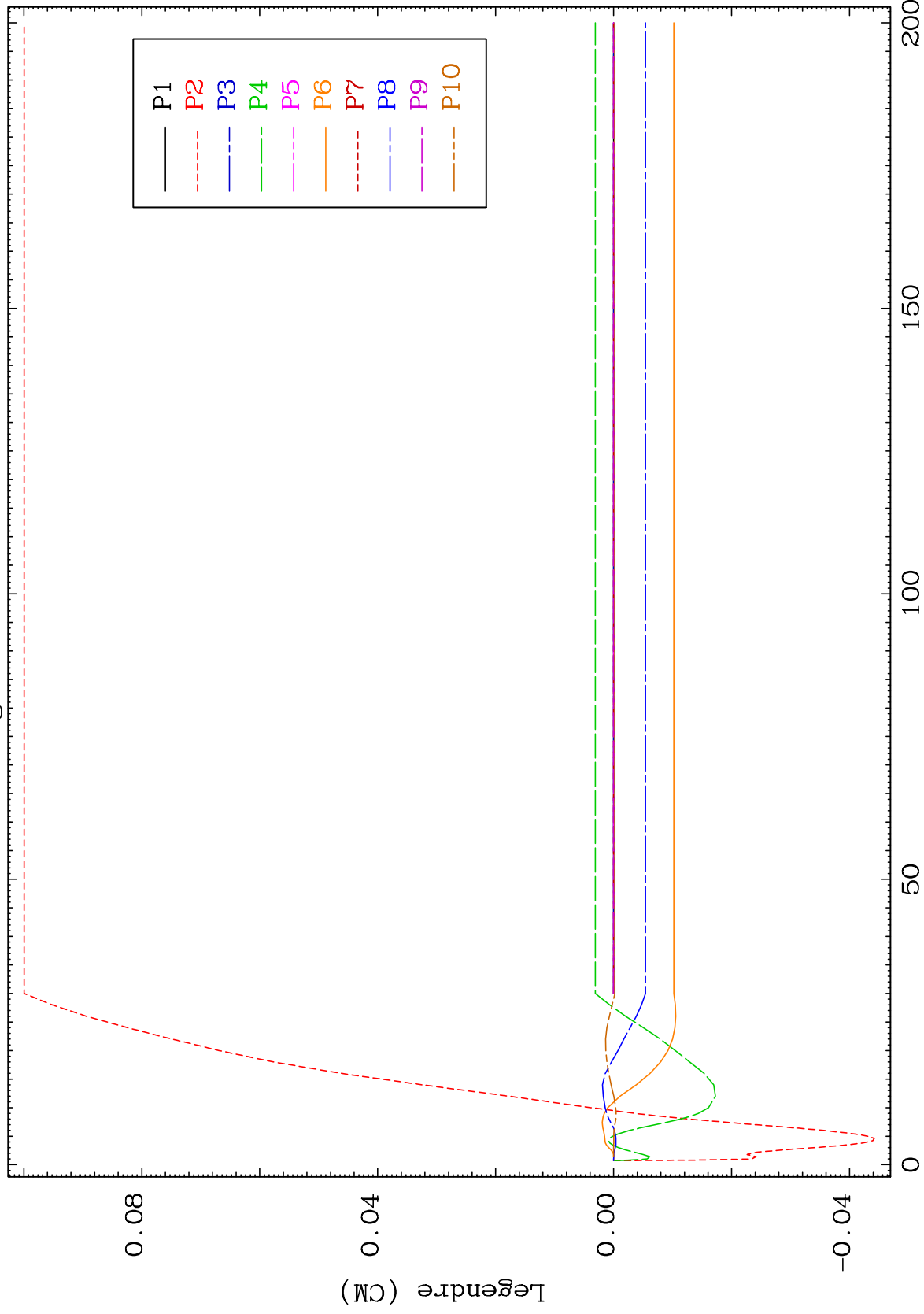




MAT 5934

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

59-Pr-144



84

Incident Energy (MeV)

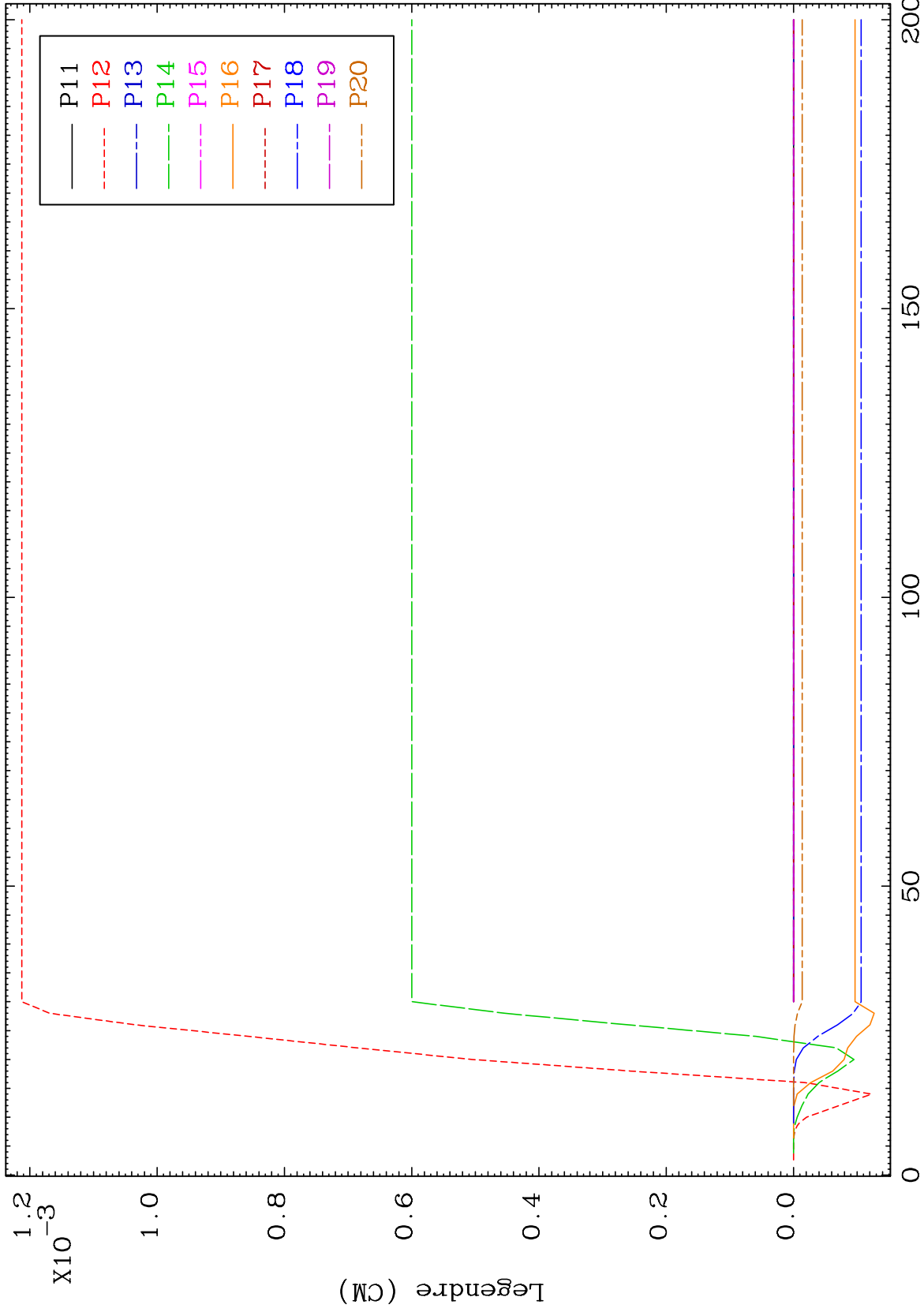
59-Pr-144

MAT 5934

MT= 68 (n,n') Level

59-Pr-144

Legendre Coefficients



85

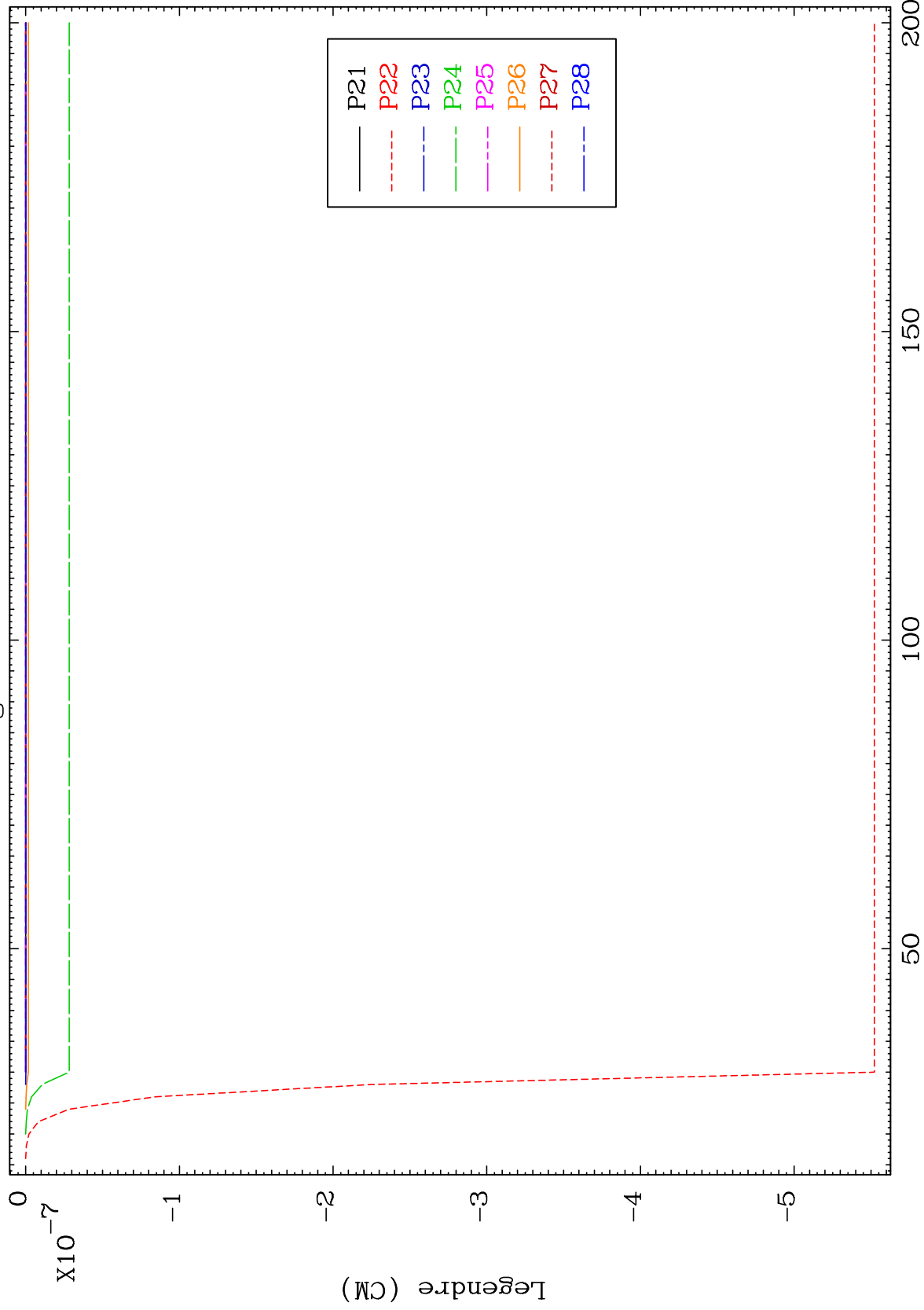
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



86

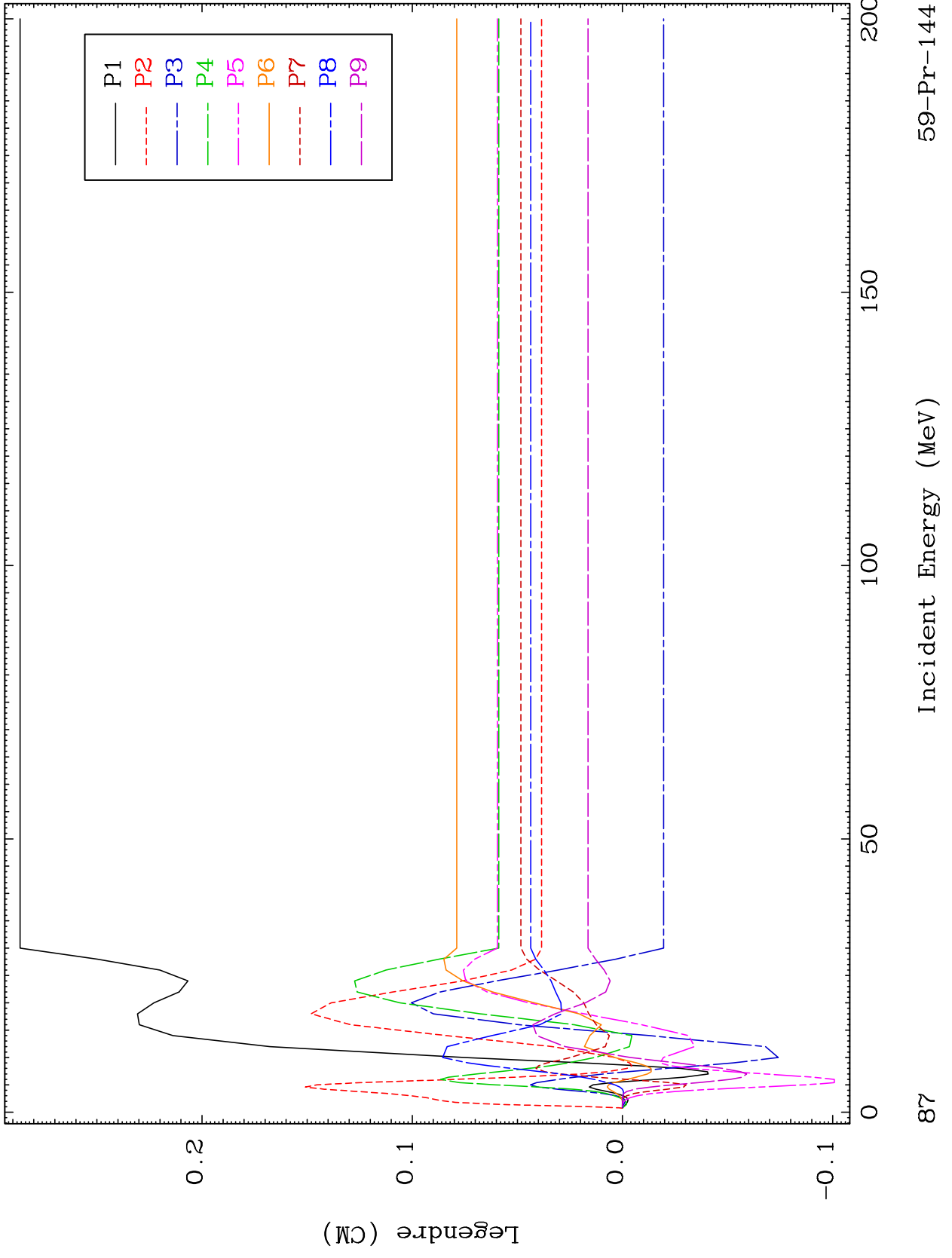
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



87

Incident Energy (MeV)

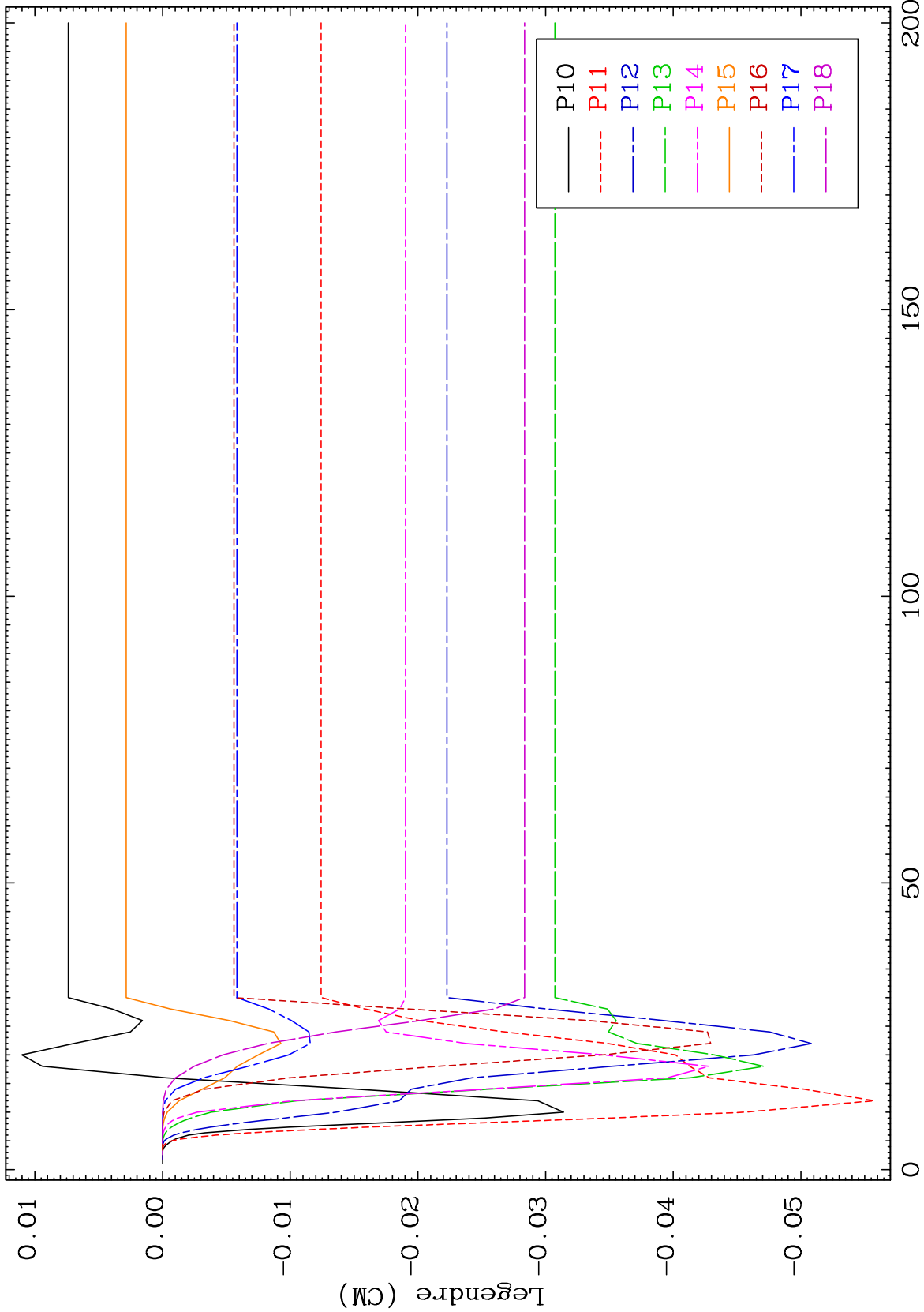
59-Pr-144



MAT 5934

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

59-Pr-144



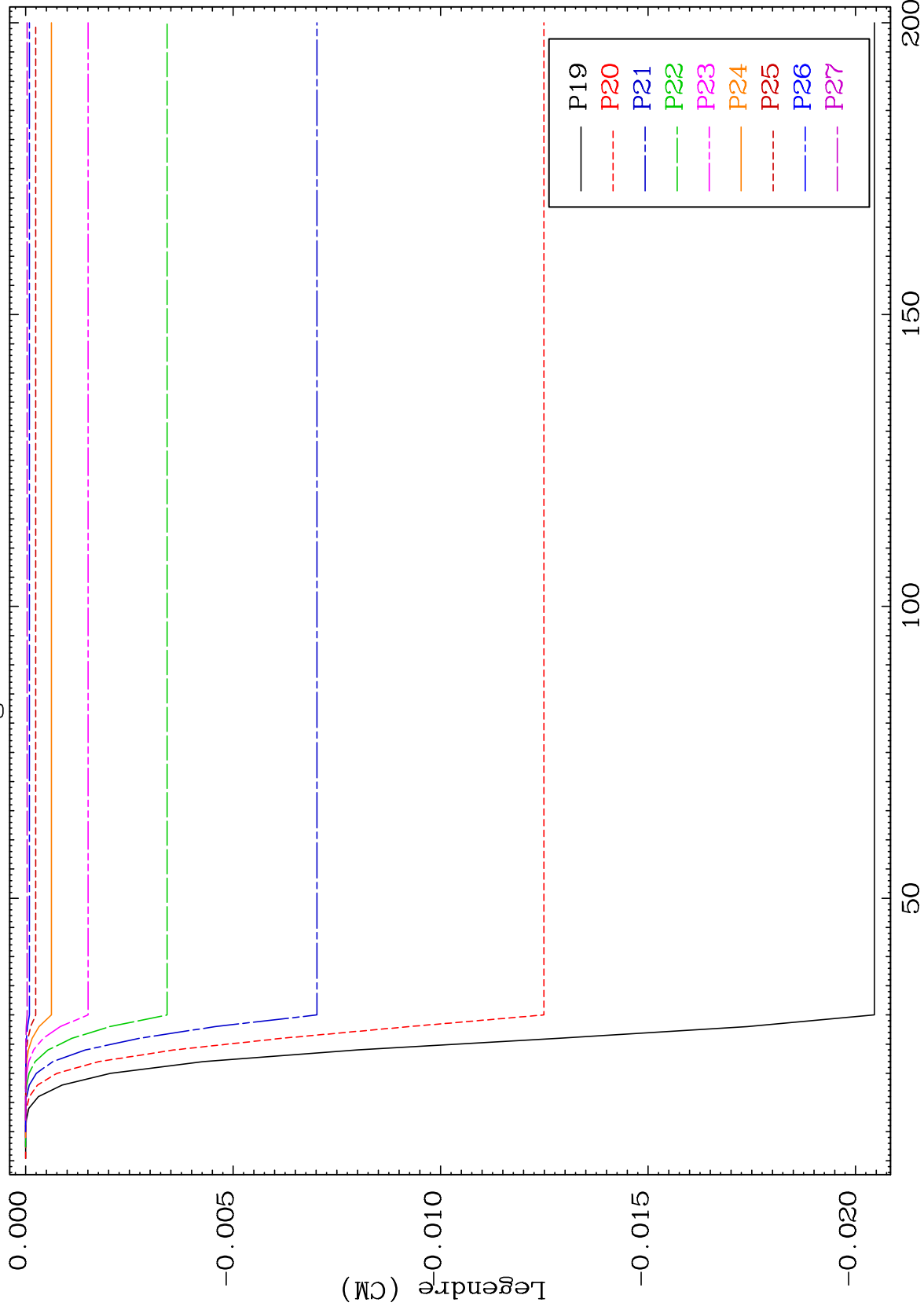
88

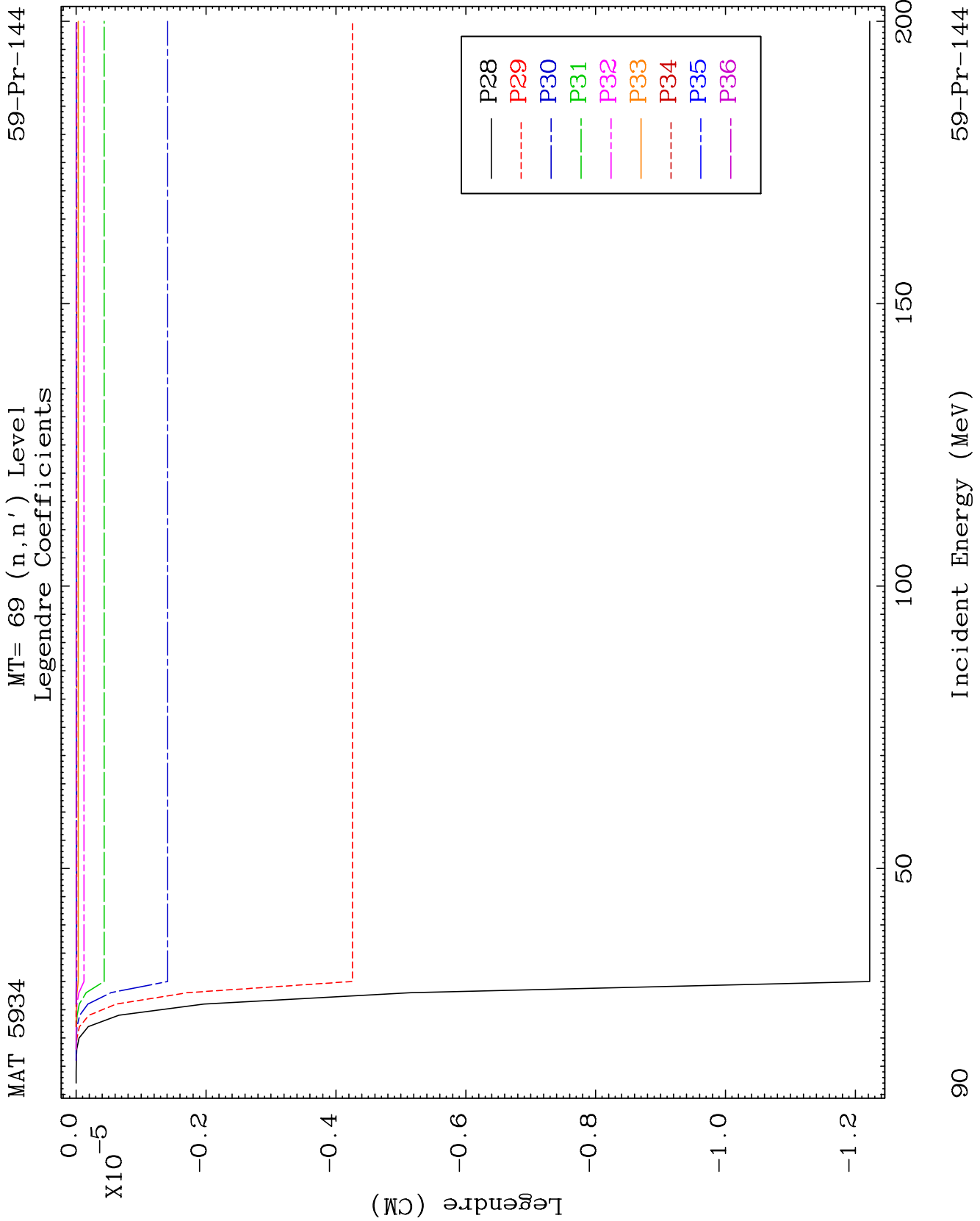
59-Pr-144

MAT 5934

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

59-Pr-144

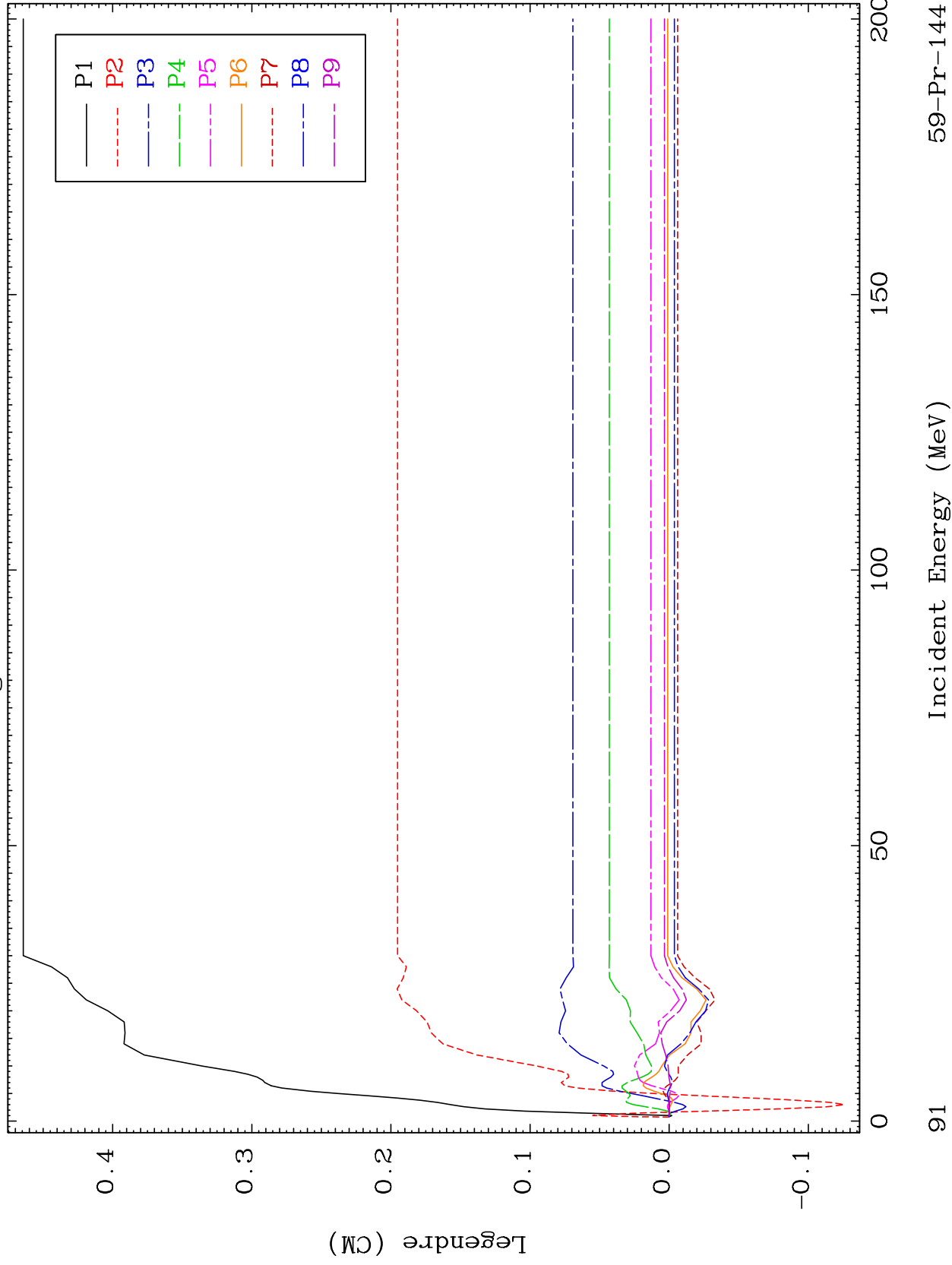




MAT 5934

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

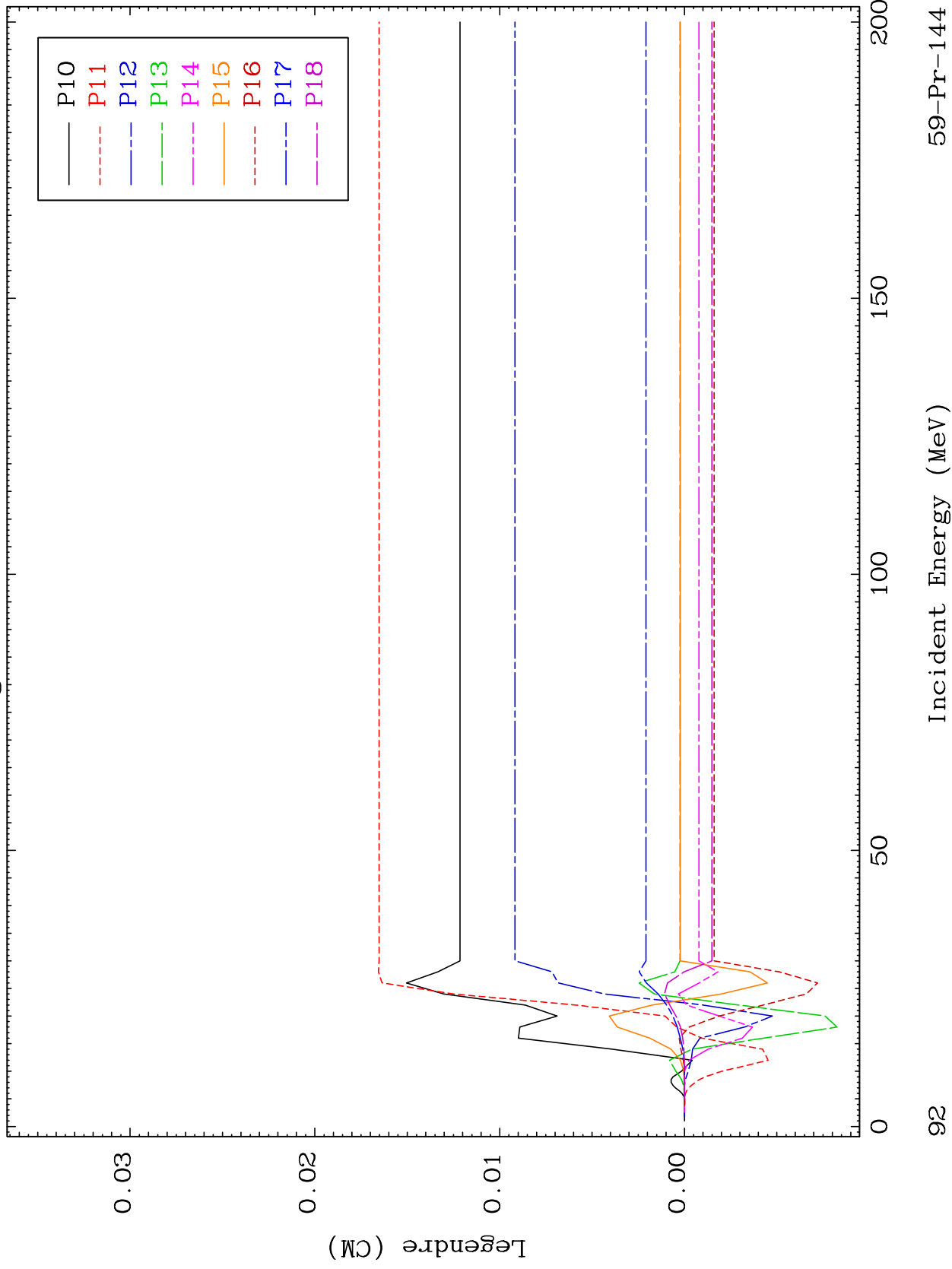
59-Pr-144



MAT 5934

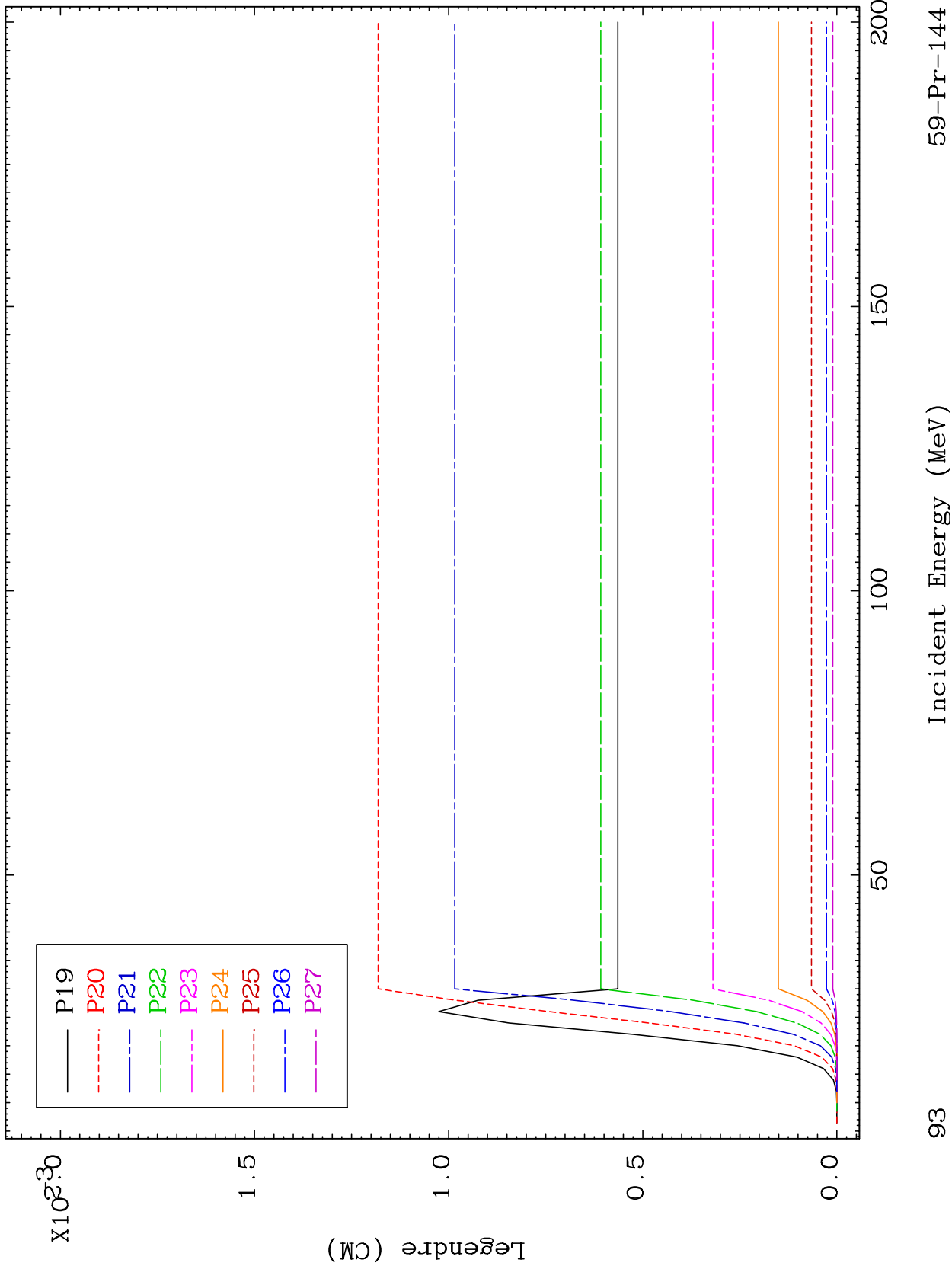
MT= 70 (n,n') Level  
Legendre Coefficients

59-Pr-144



92

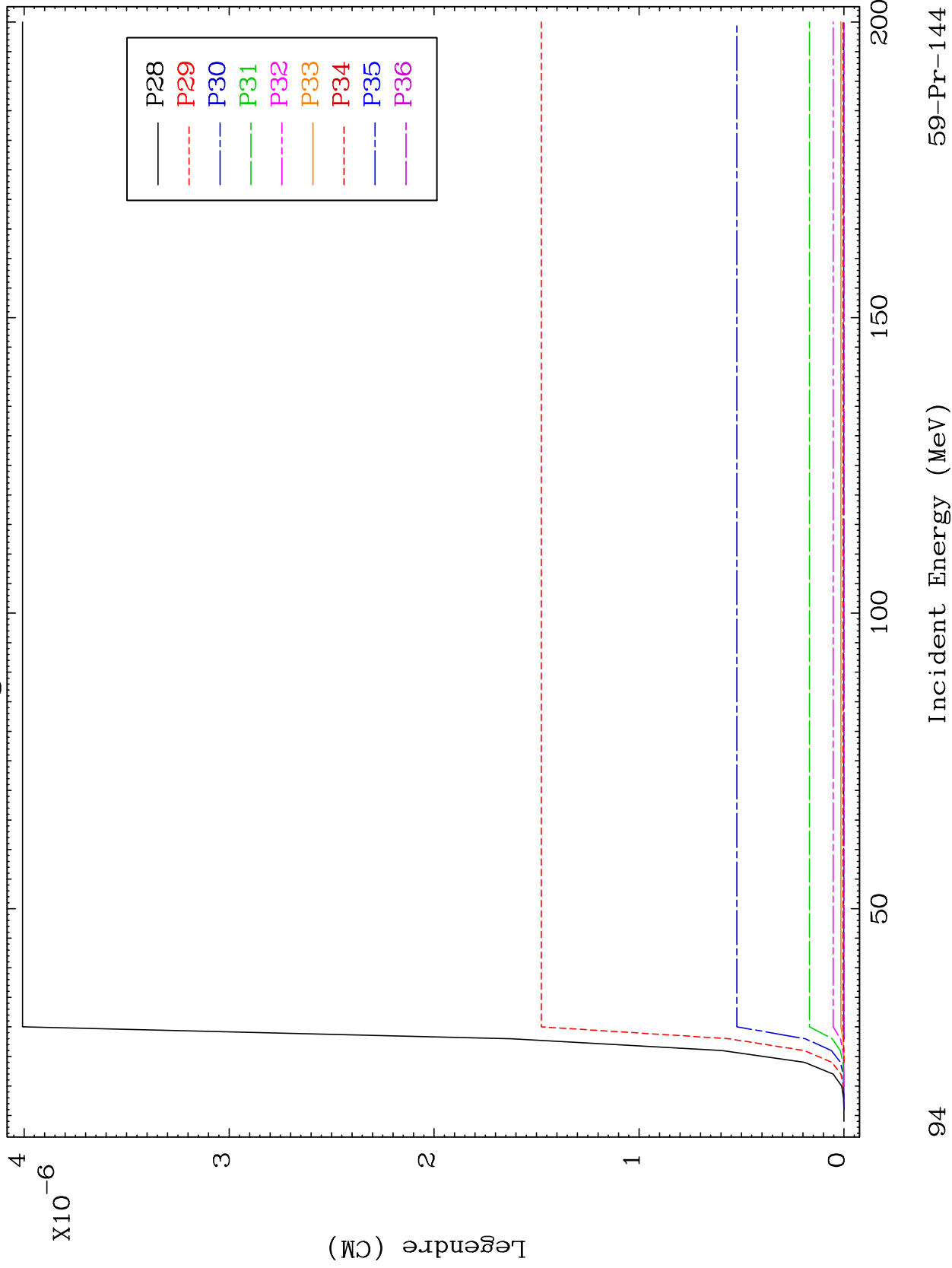
59-Pr-144



MAT 5934

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

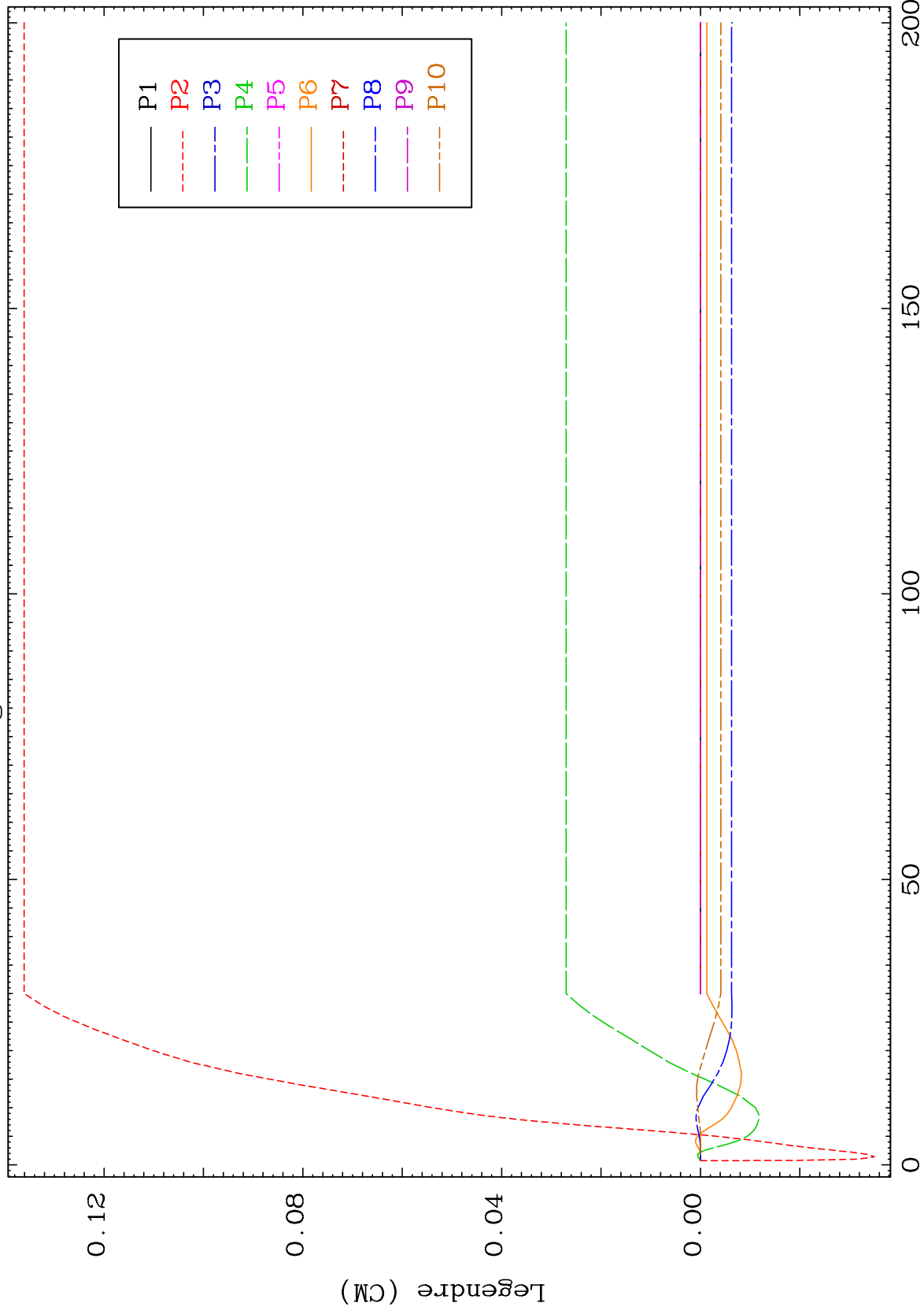
59-Pr-144



MAT 5934

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

59-Pr-144



95

Incident Energy (MeV)

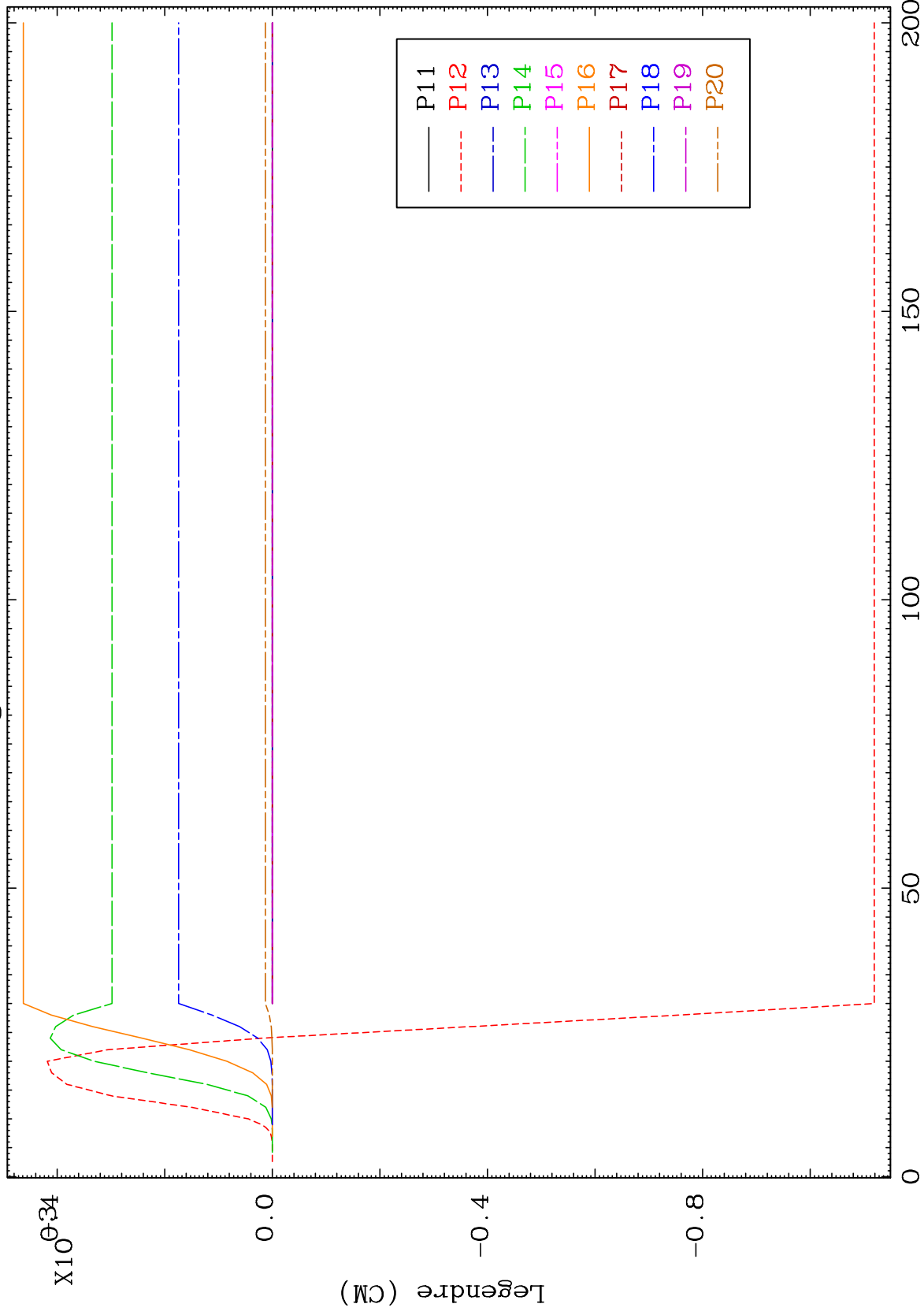
59-Pr-144



MAT 5934

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

59-Pr-144



96

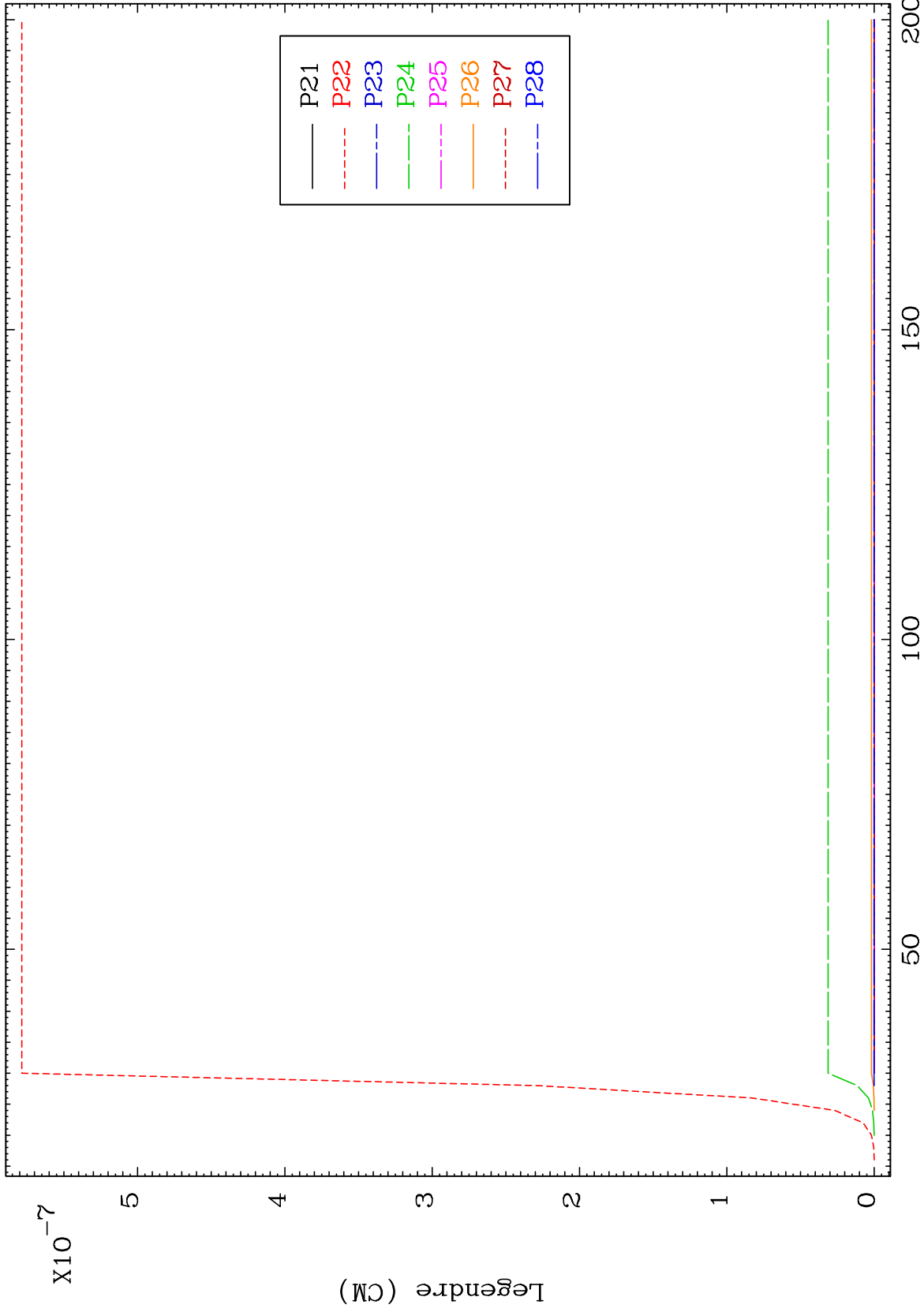
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



97

Incident Energy (MeV)

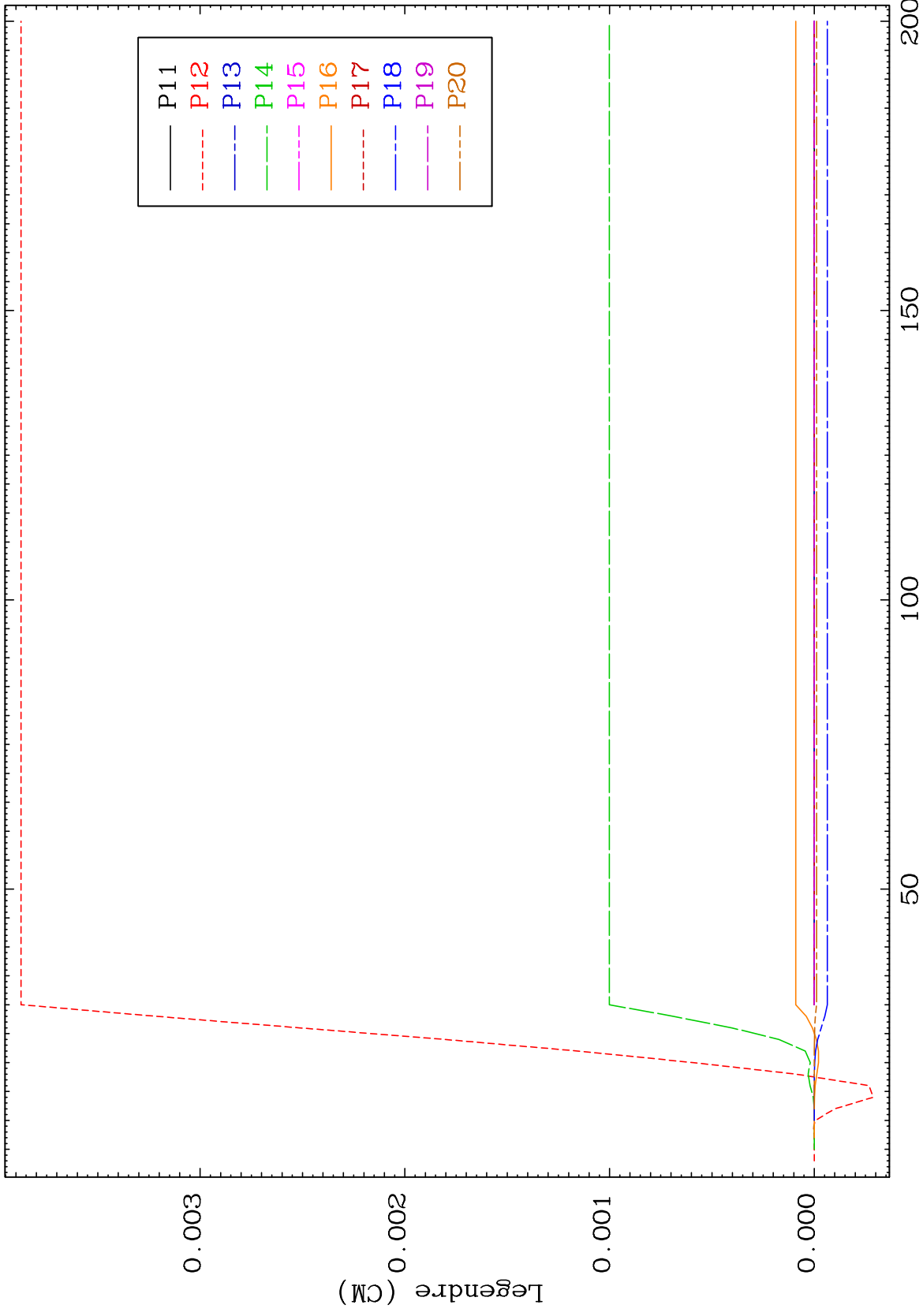
59-Pr-144



MAT 5934

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

59-Pr-144



99

Incident Energy (MeV)

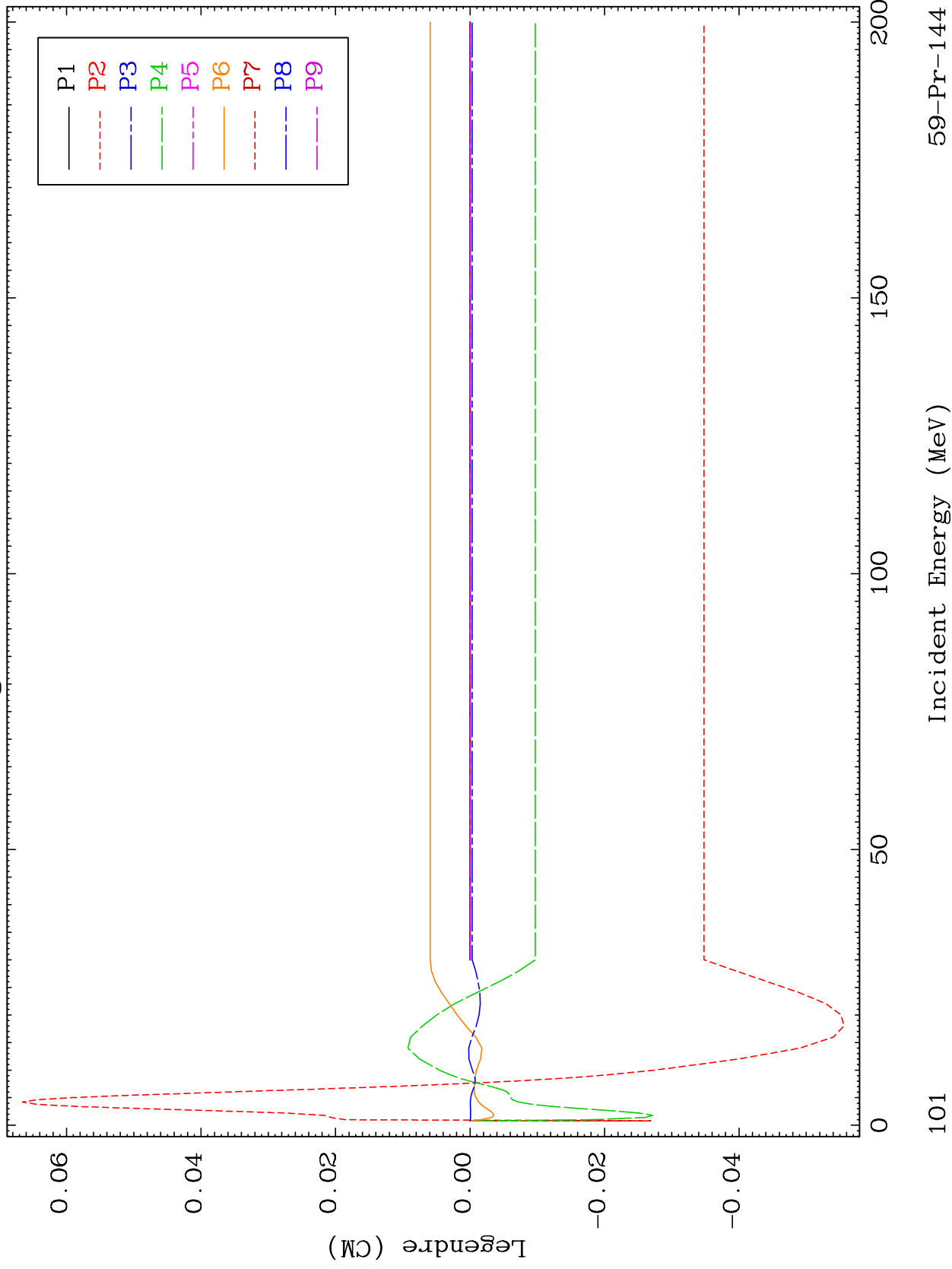
59-Pr-144



MAT 5934

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

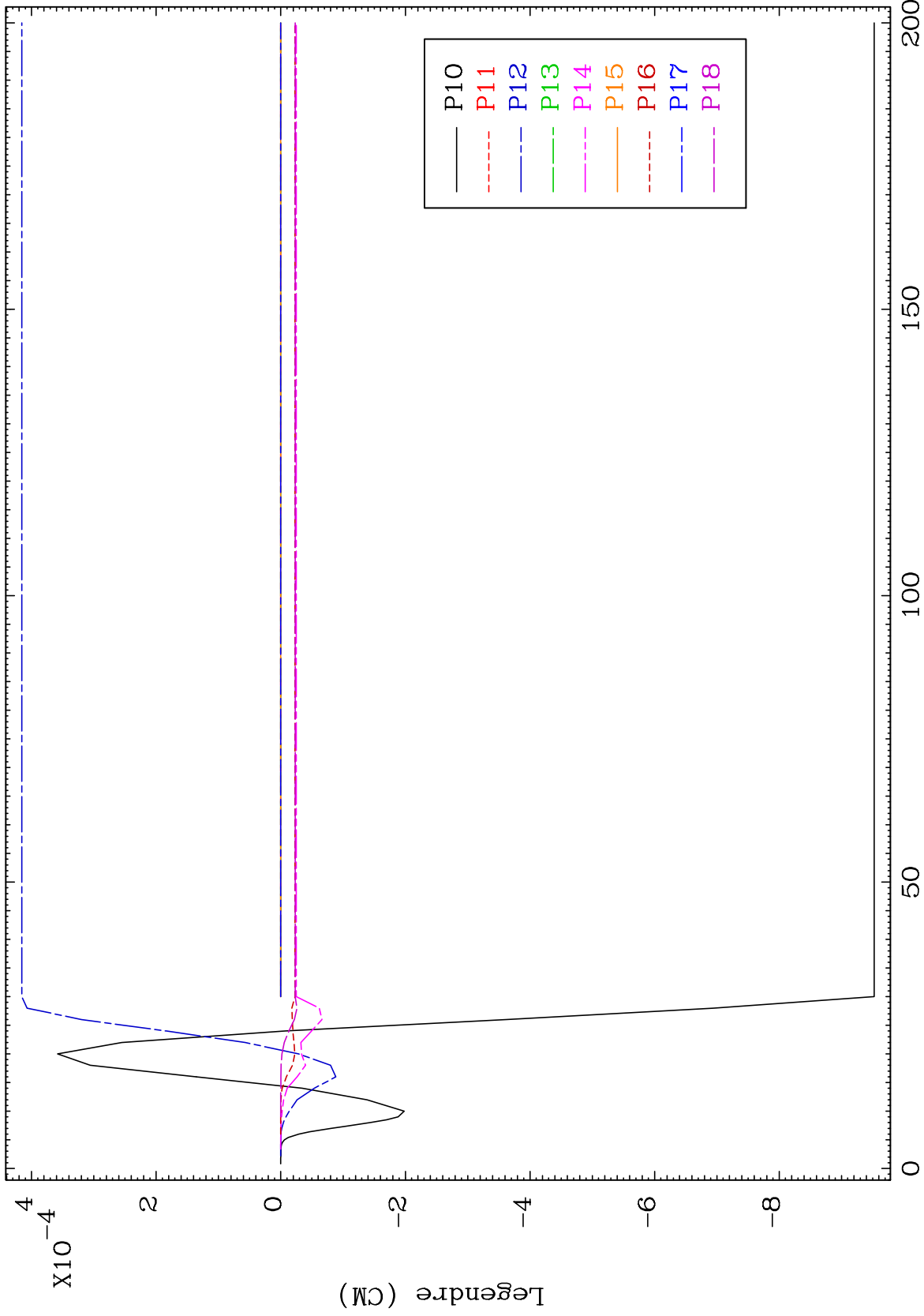
59-Pr-144

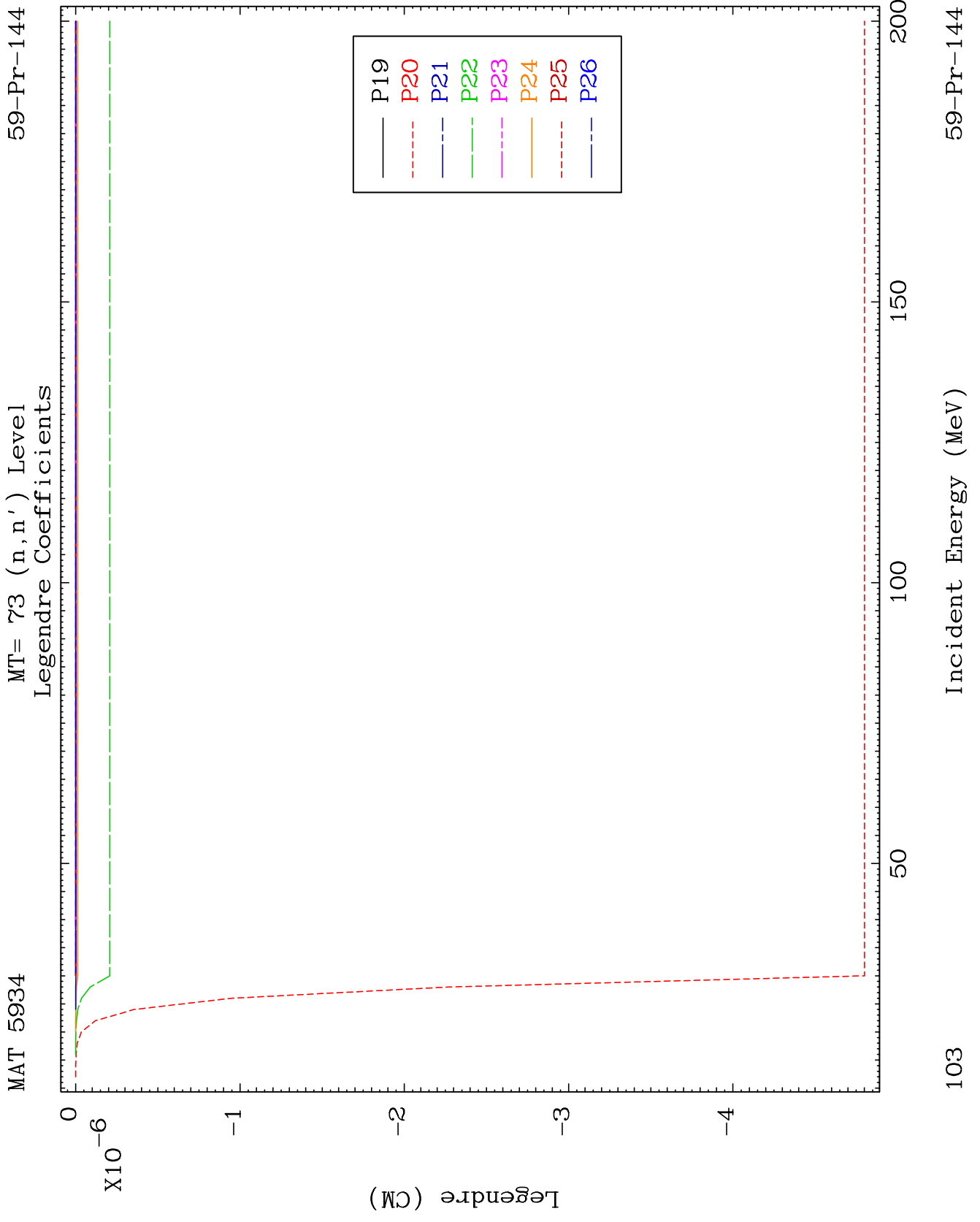


59-Pr-144

Incident Energy (MeV)

101



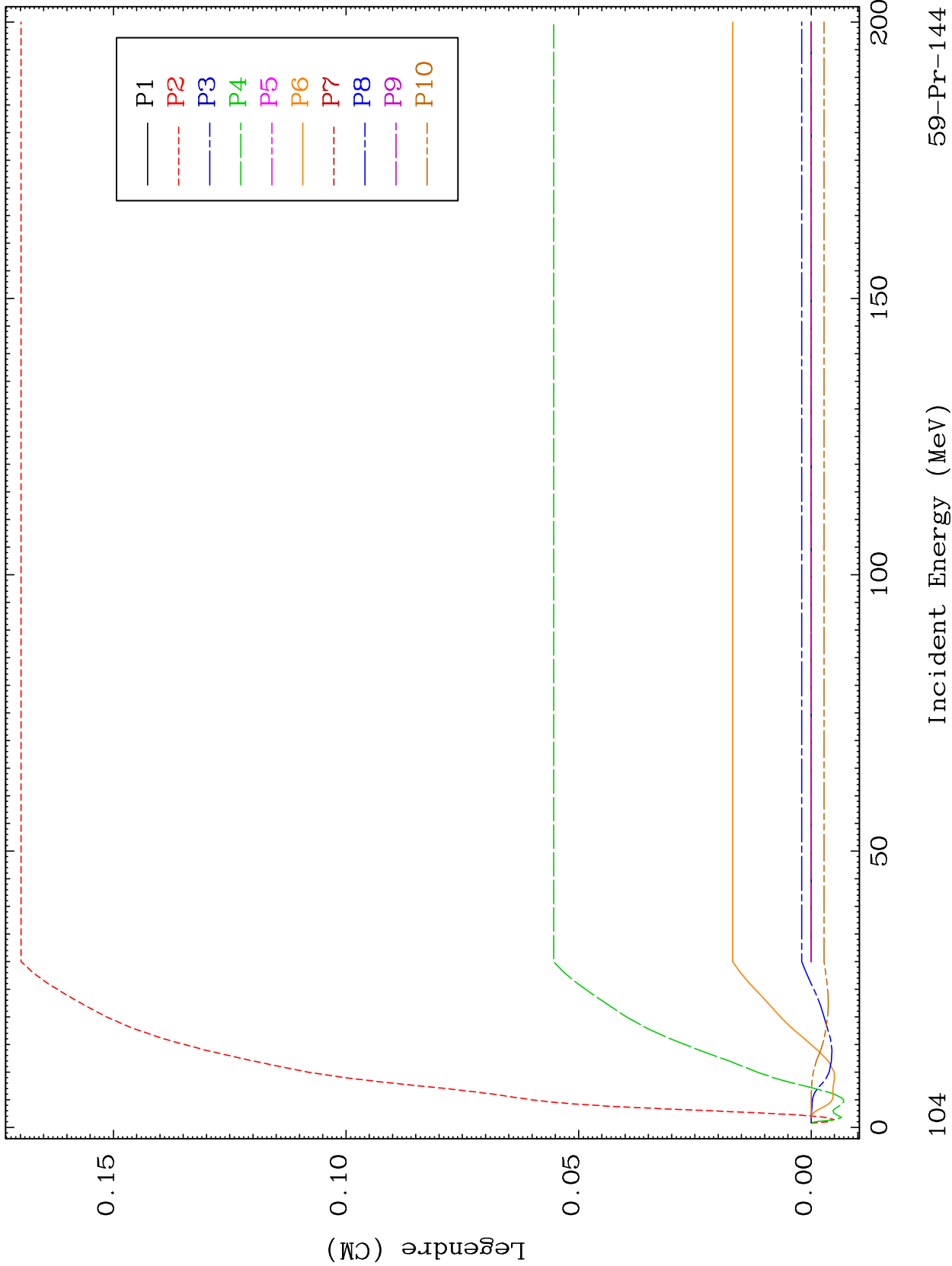




MAT 5934

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

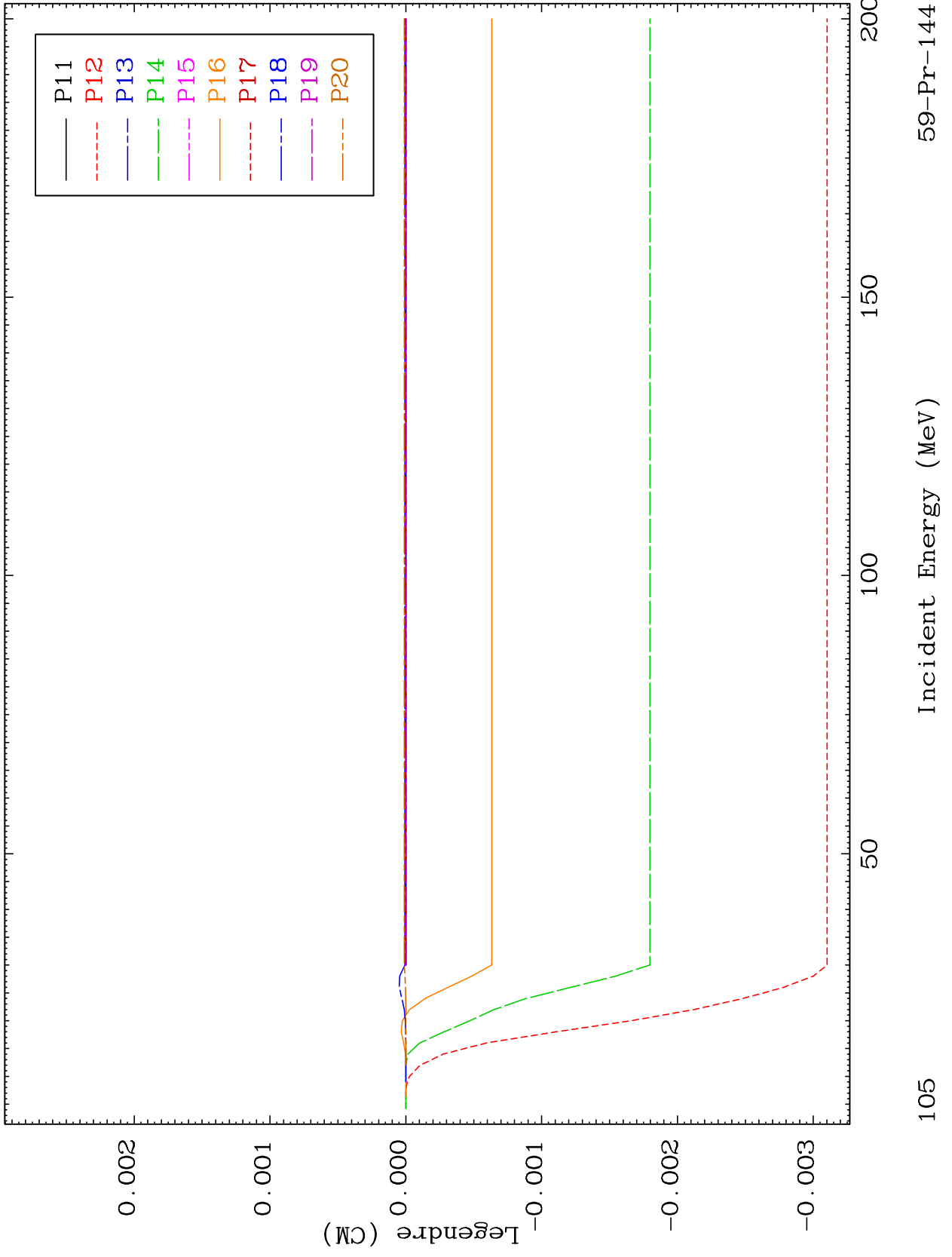
59-Pr-144



MAT 5934

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

59-Pr-144



105

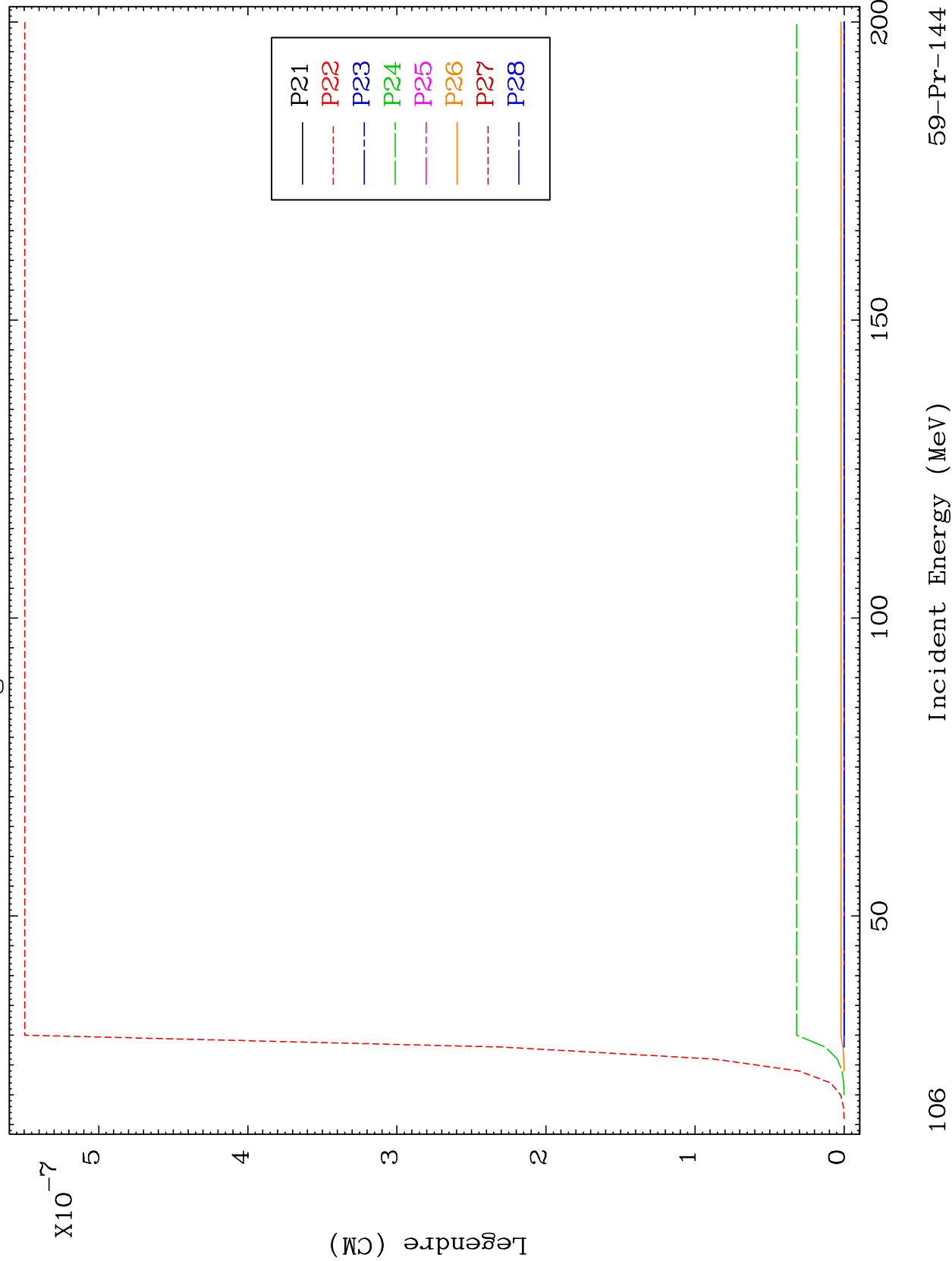
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



106

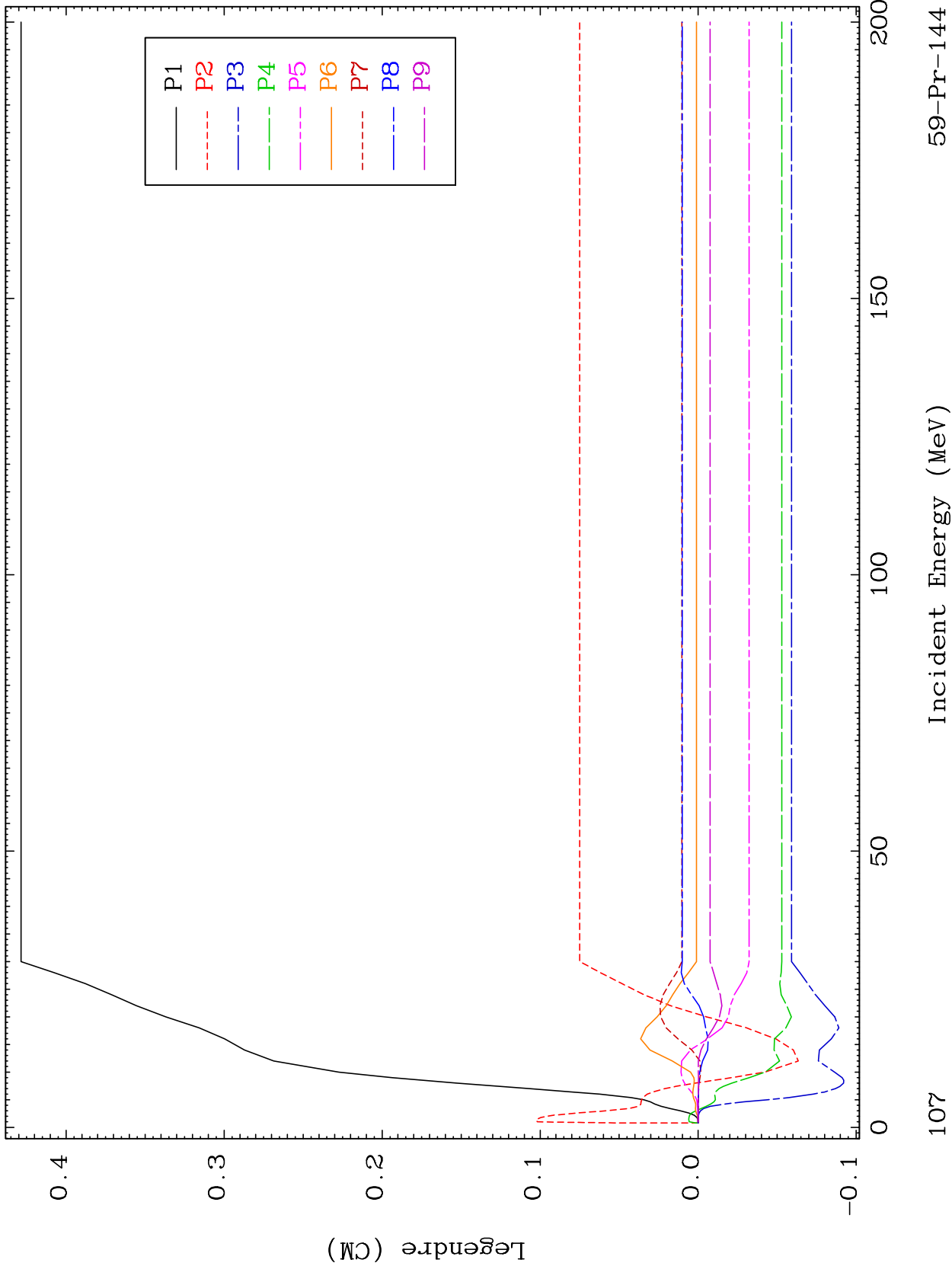
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



59-Pr-144

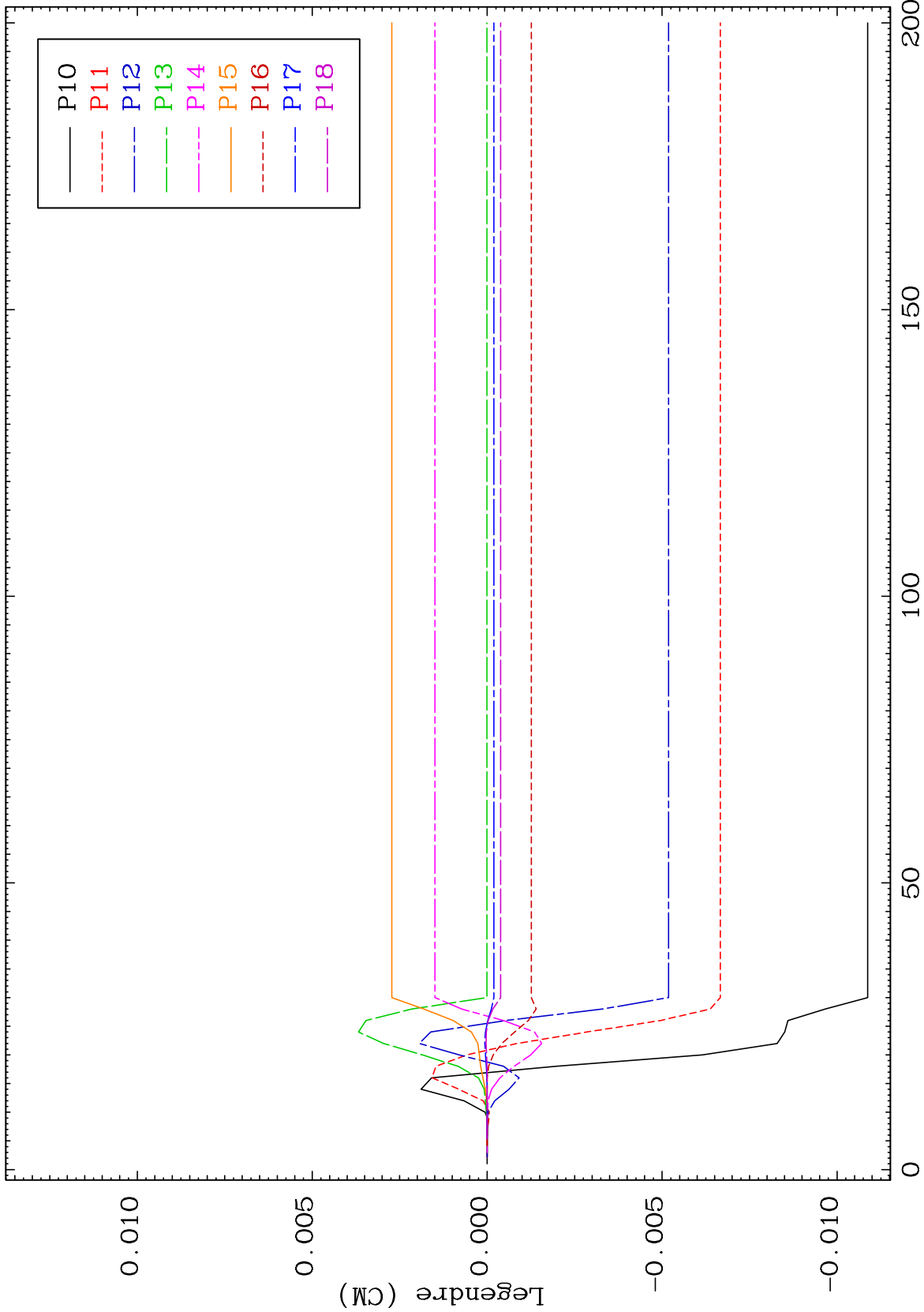
Incident Energy (MeV)

107

MAT 5934

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

59-Pr-144



108

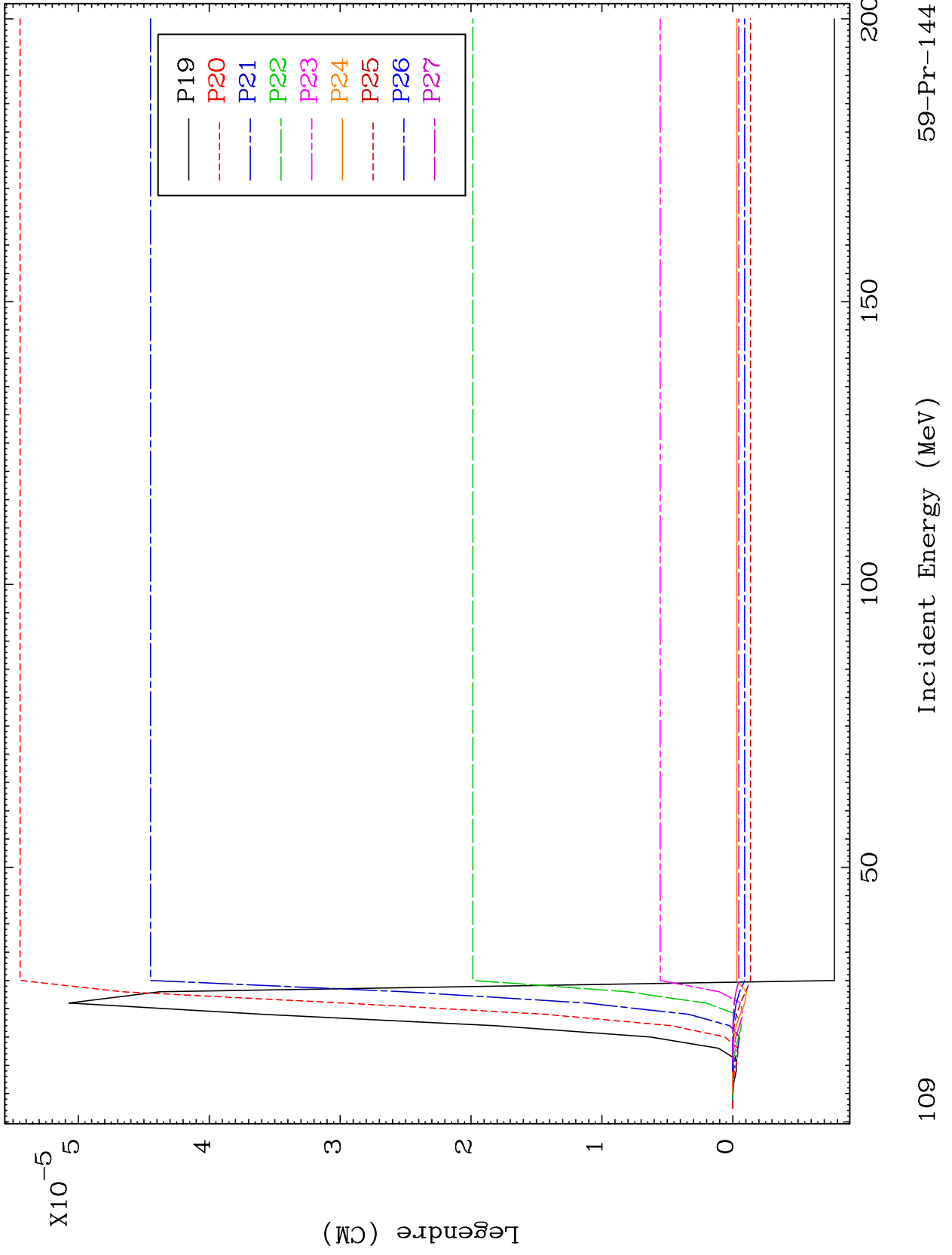
Incident Energy (MeV)

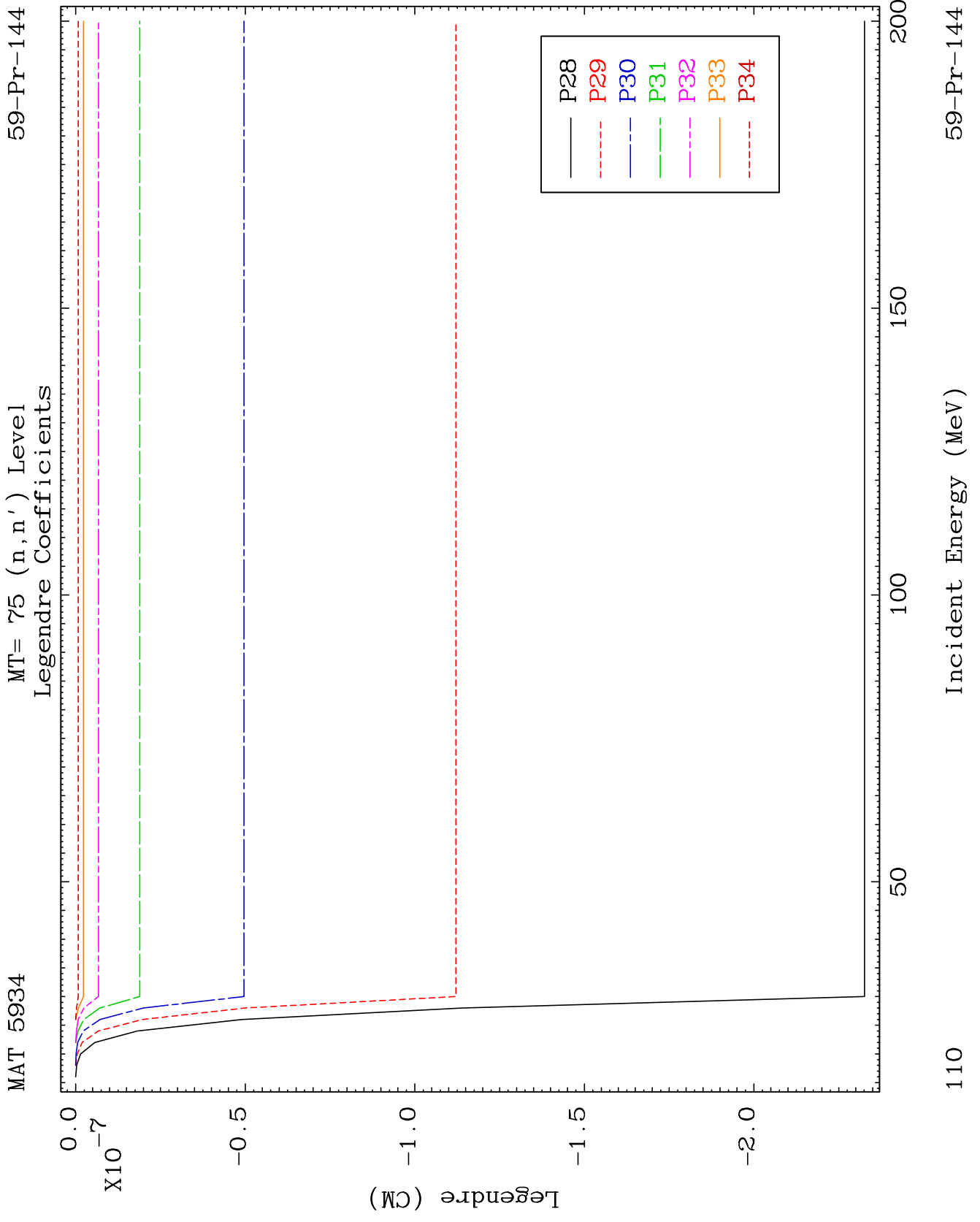
59-Pr-144

MAT 5934

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

59-Pr-144

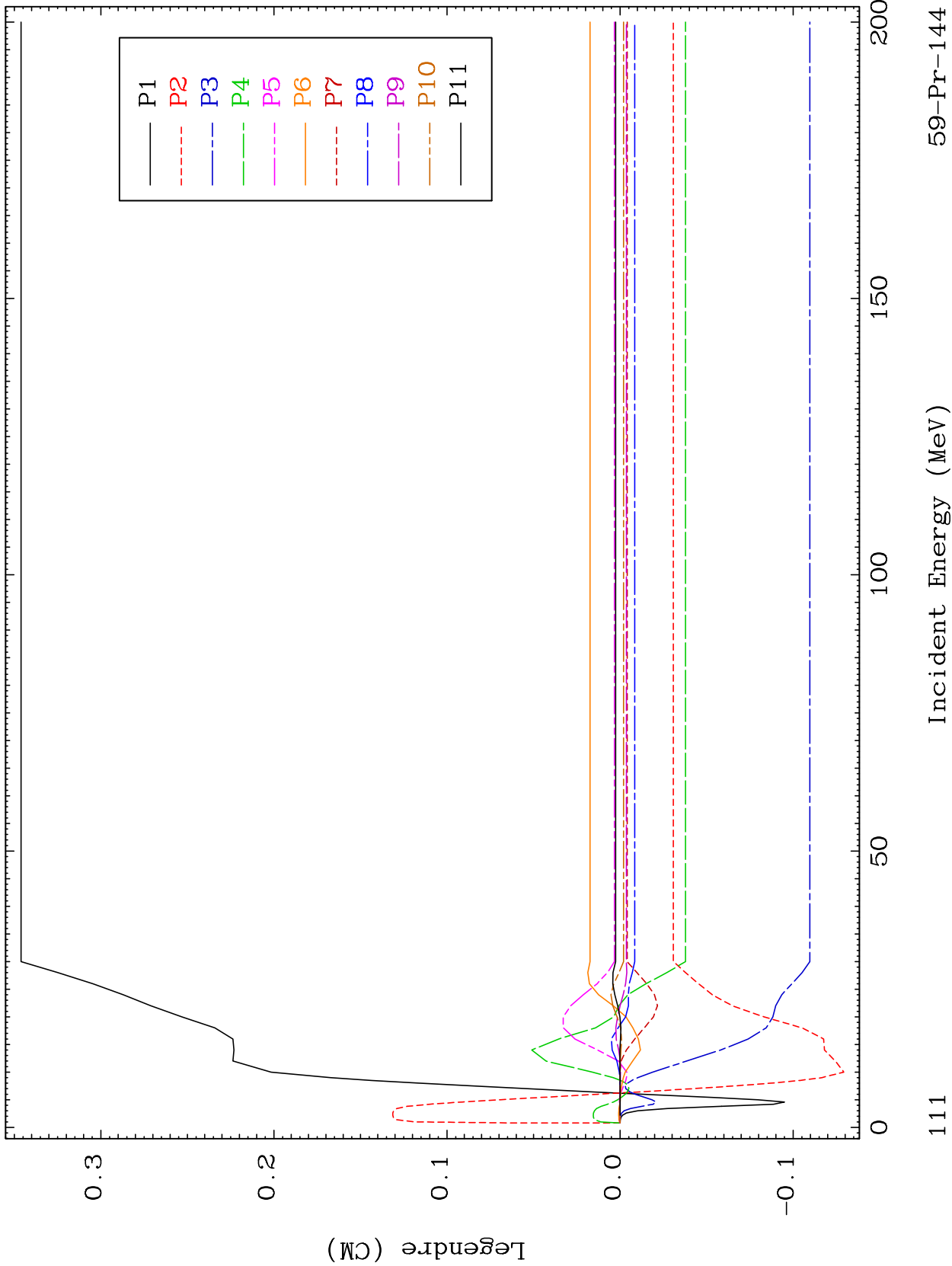




MAT 5934

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

59-Pr-144



59-Pr-144

Incident Energy (MeV)

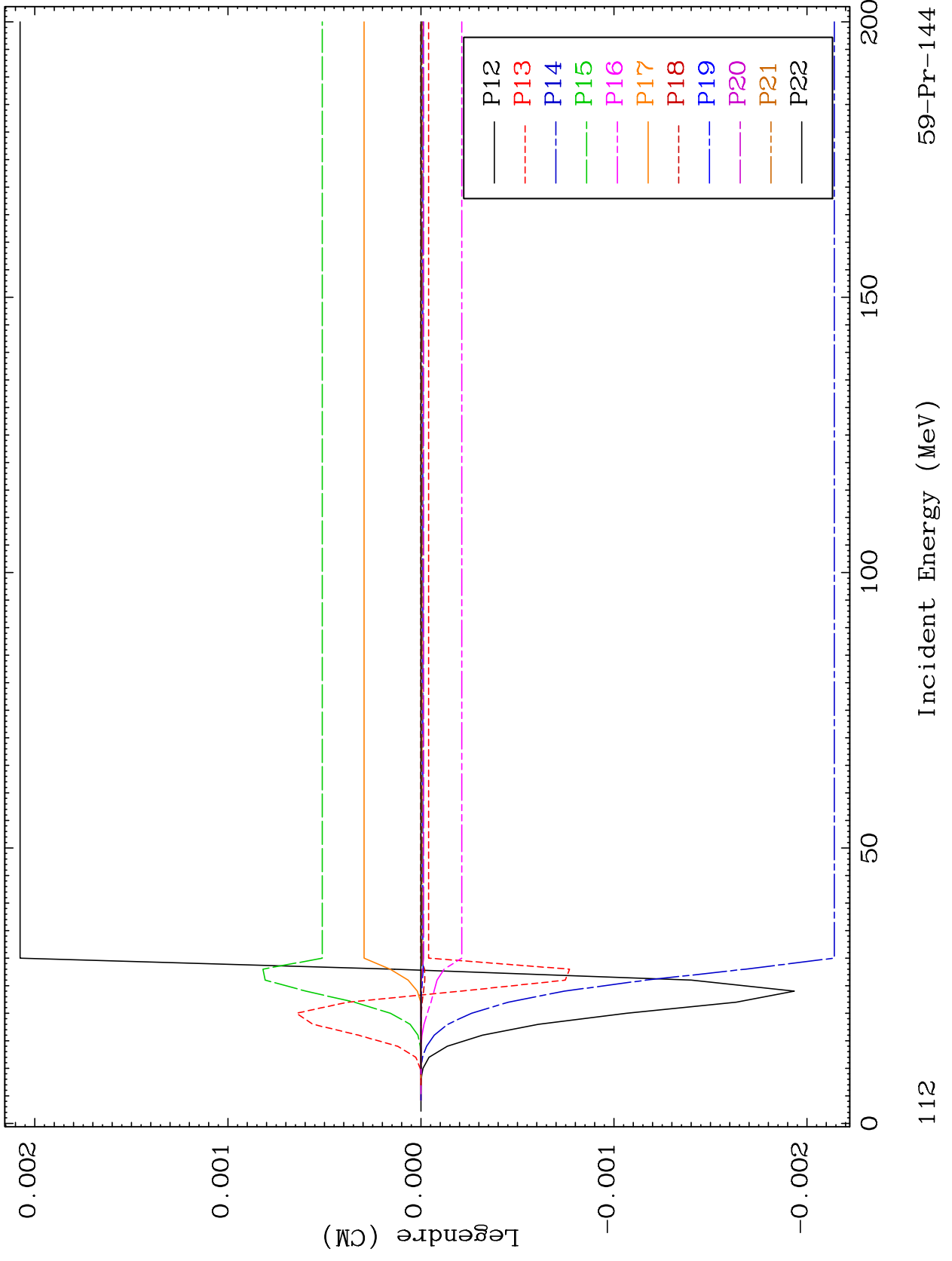
111



MAT 5934

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

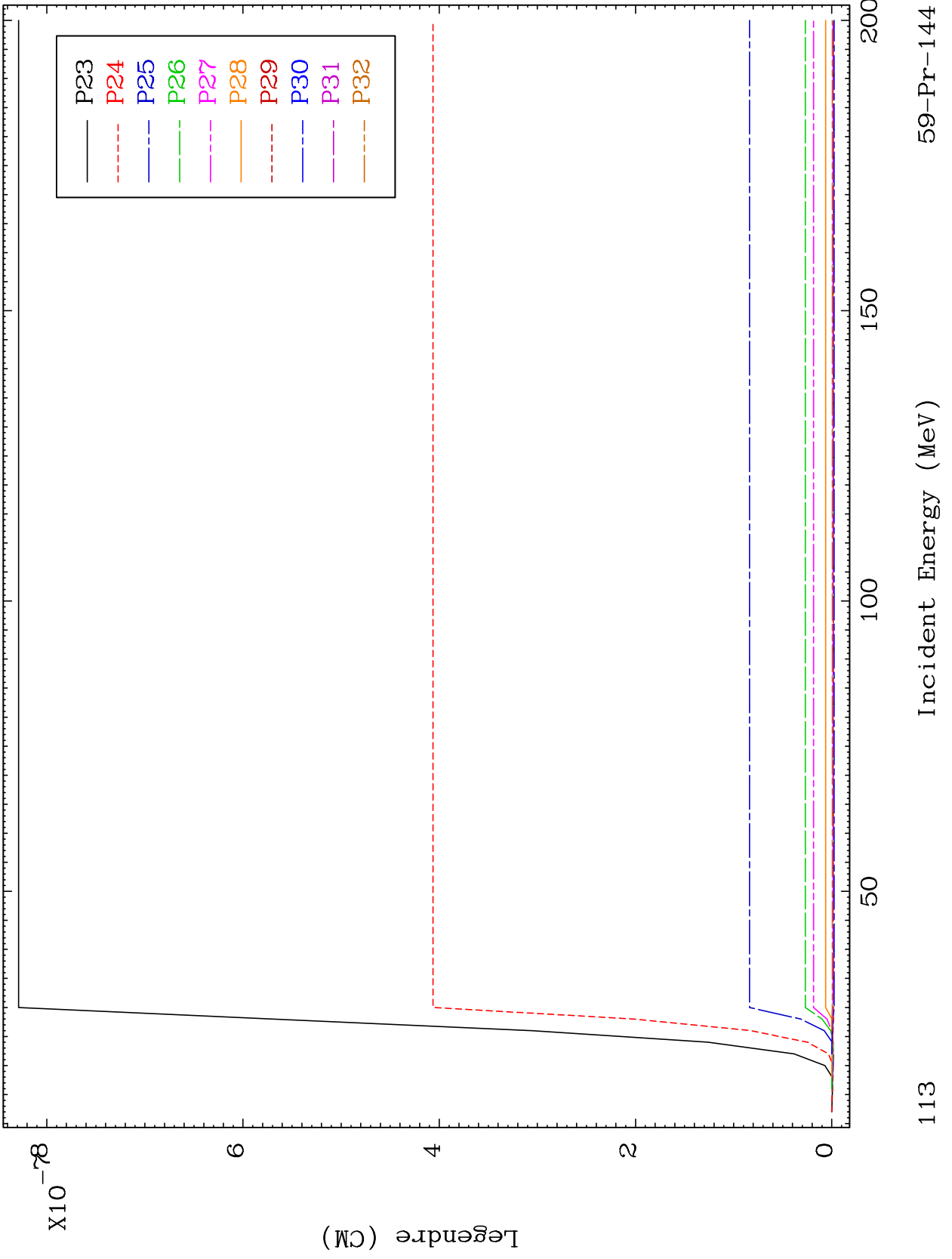
59-Pr-144



MAT 5934

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

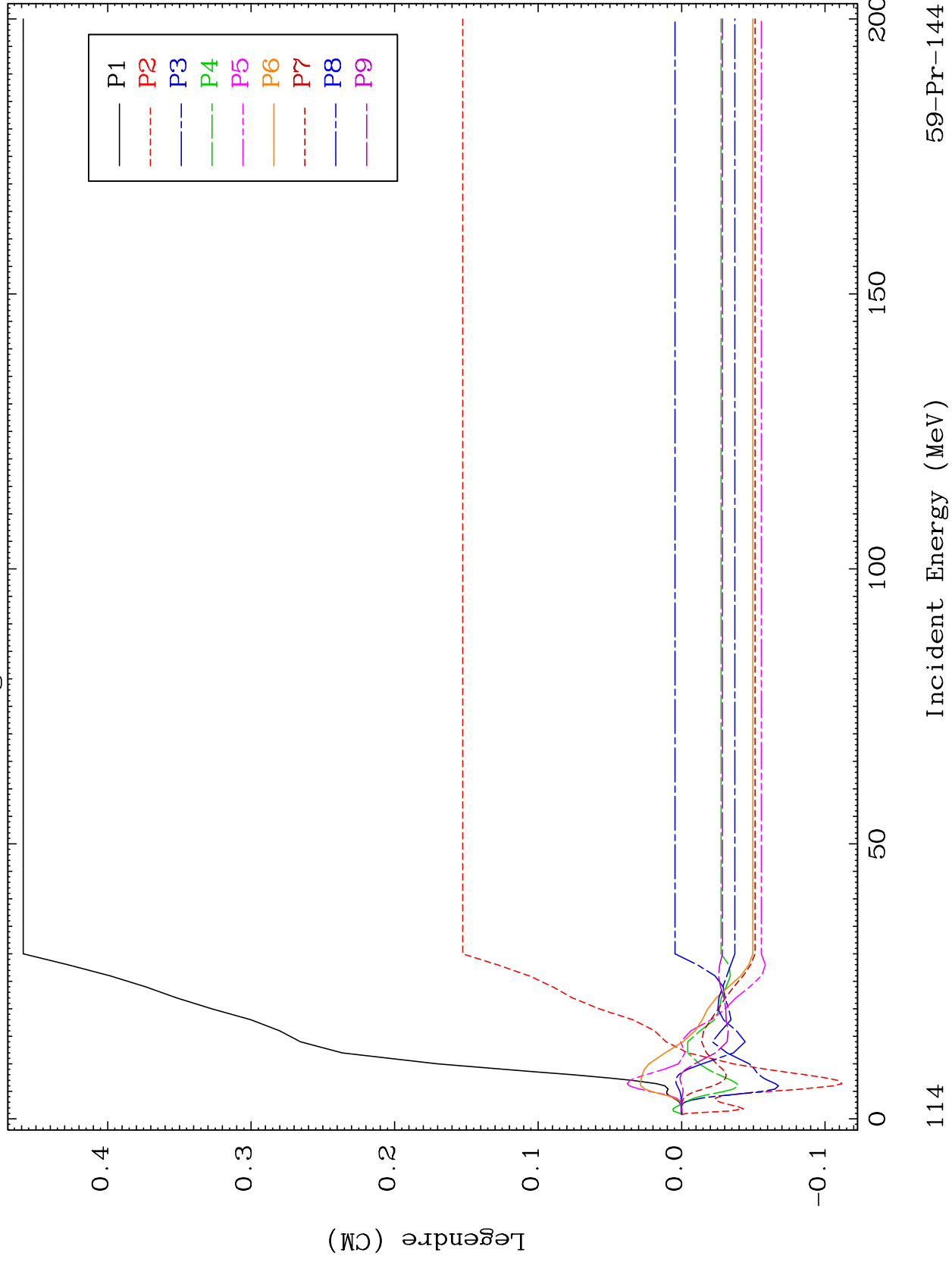
59-Pr-144



MAT 5934

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

59-Pr-144



59-Pr-144

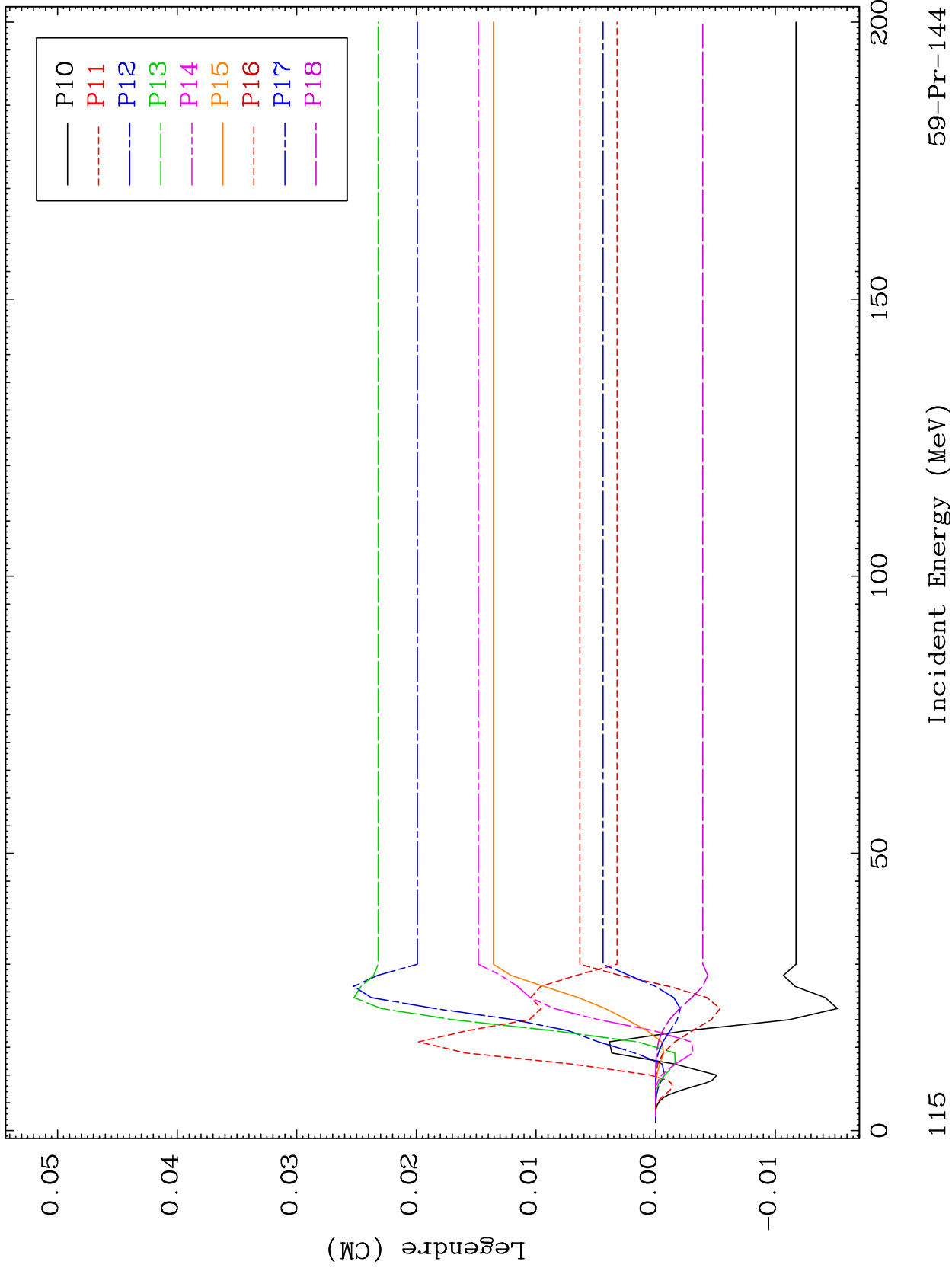
Incident Energy (MeV)

114

MAT 5934

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

59-Pr-144



59-Pr-144

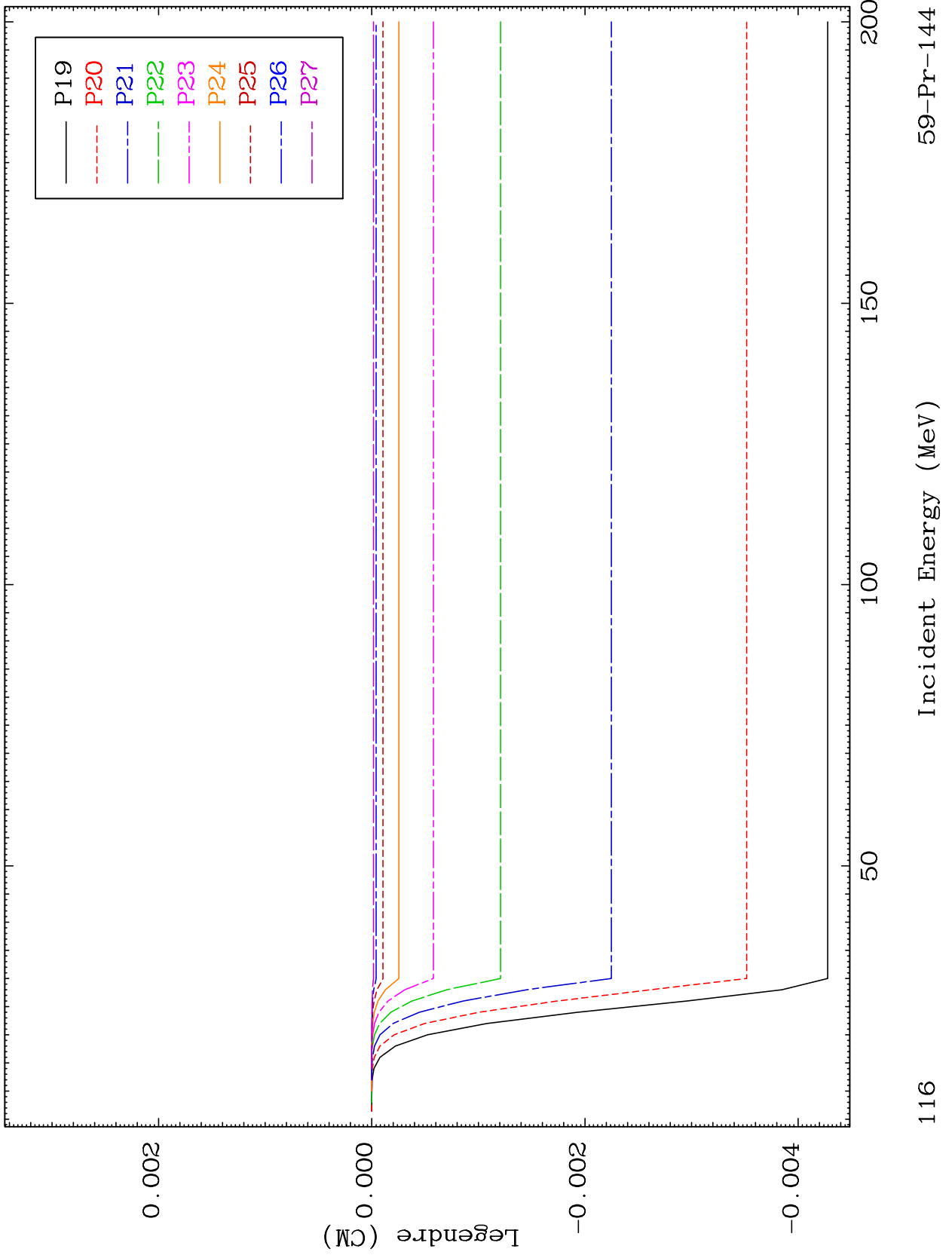
Incident Energy (MeV)

115

MAT 5934

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

59-Pr-144



116

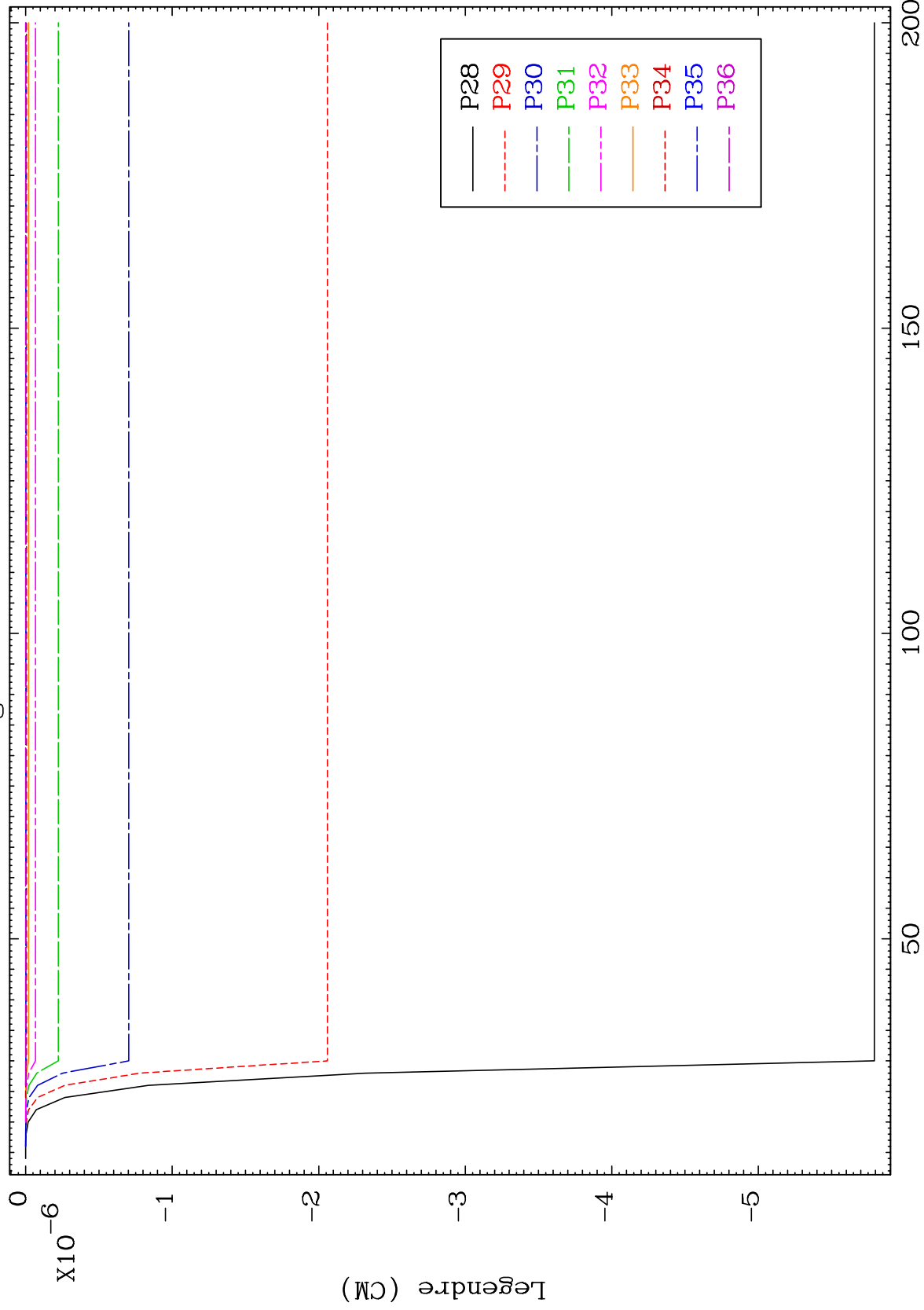
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

59-Pr-144



117

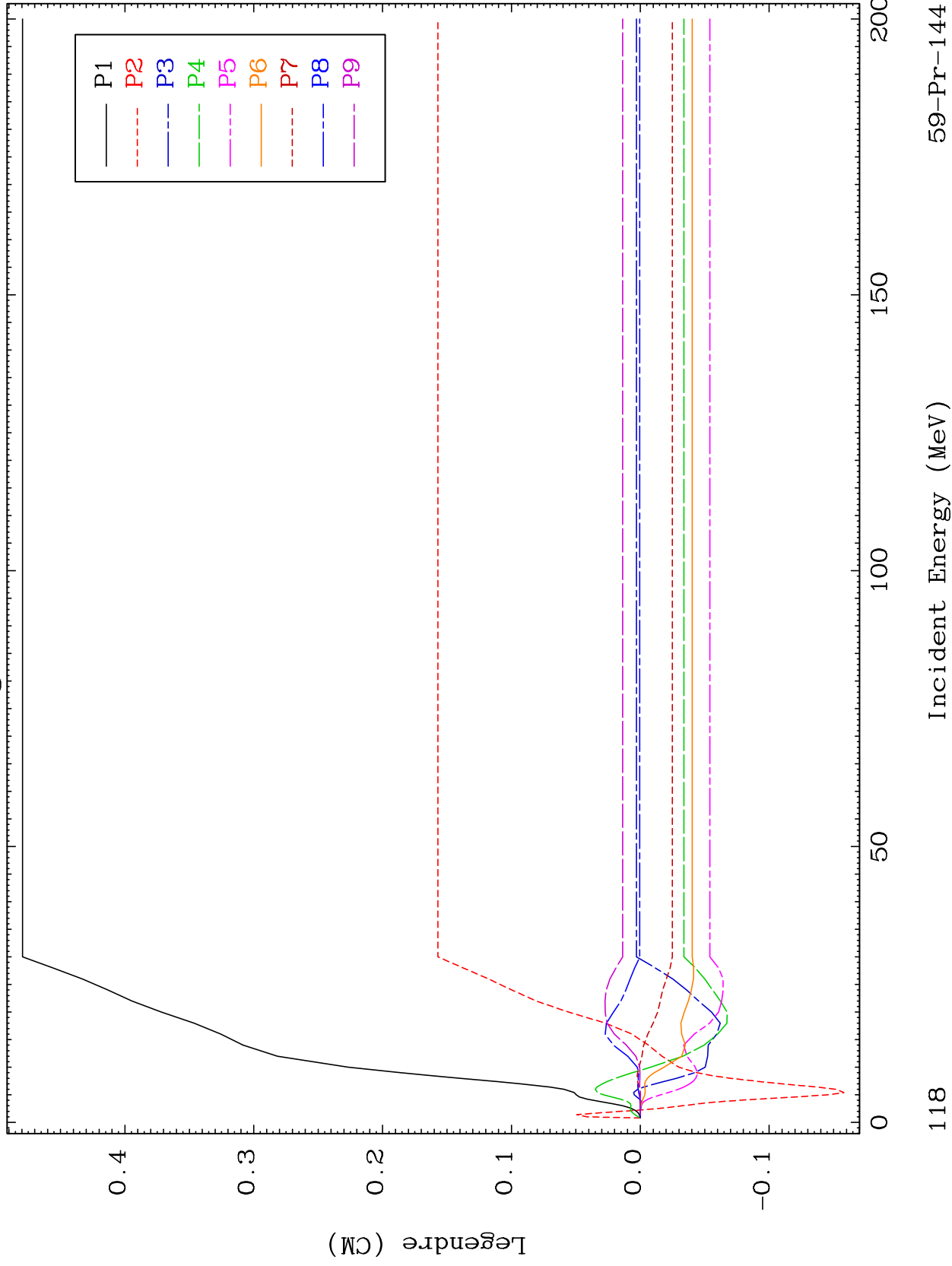
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

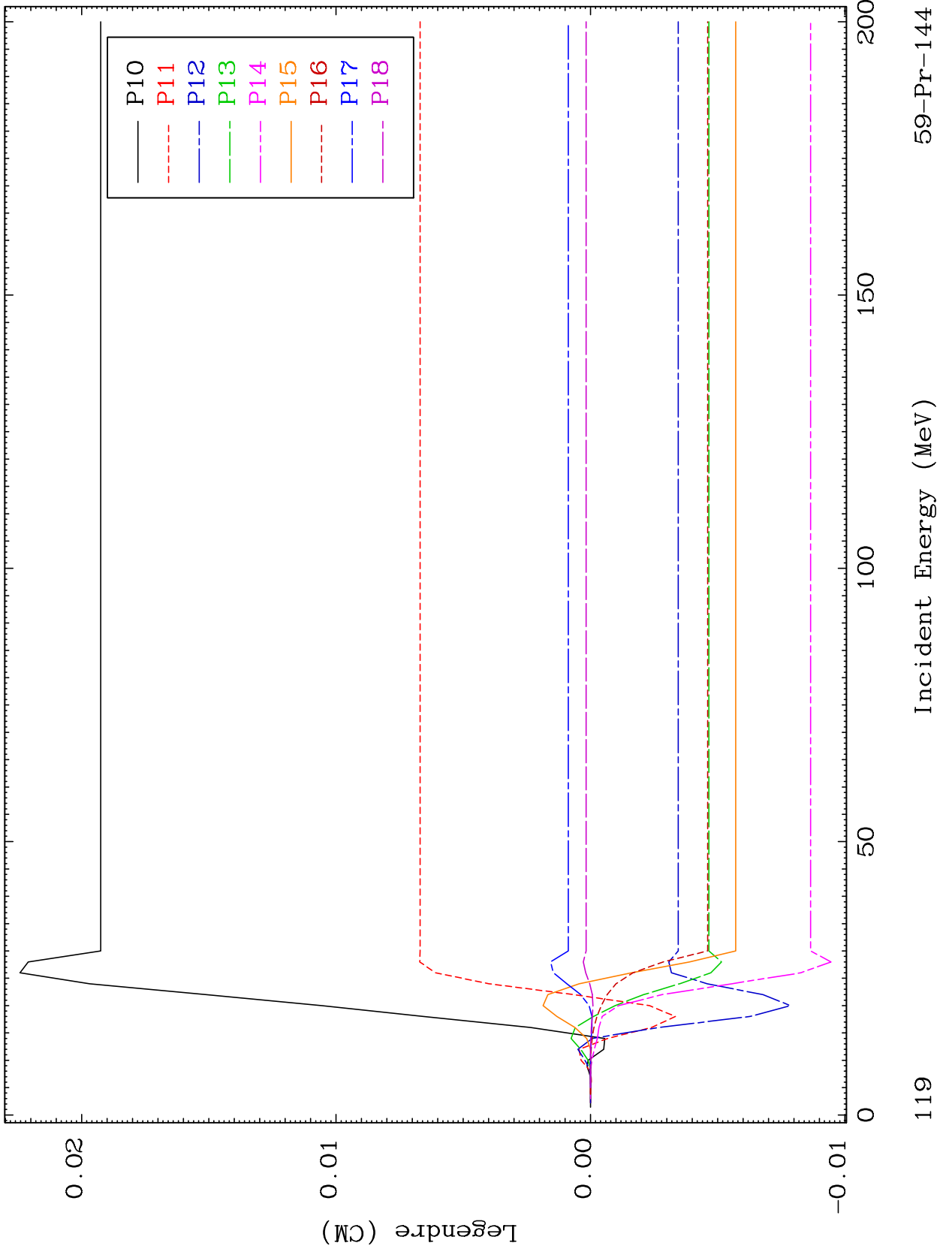
59-Pr-144



MAT 5934

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

59-Pr-144



119

Incident Energy (MeV)

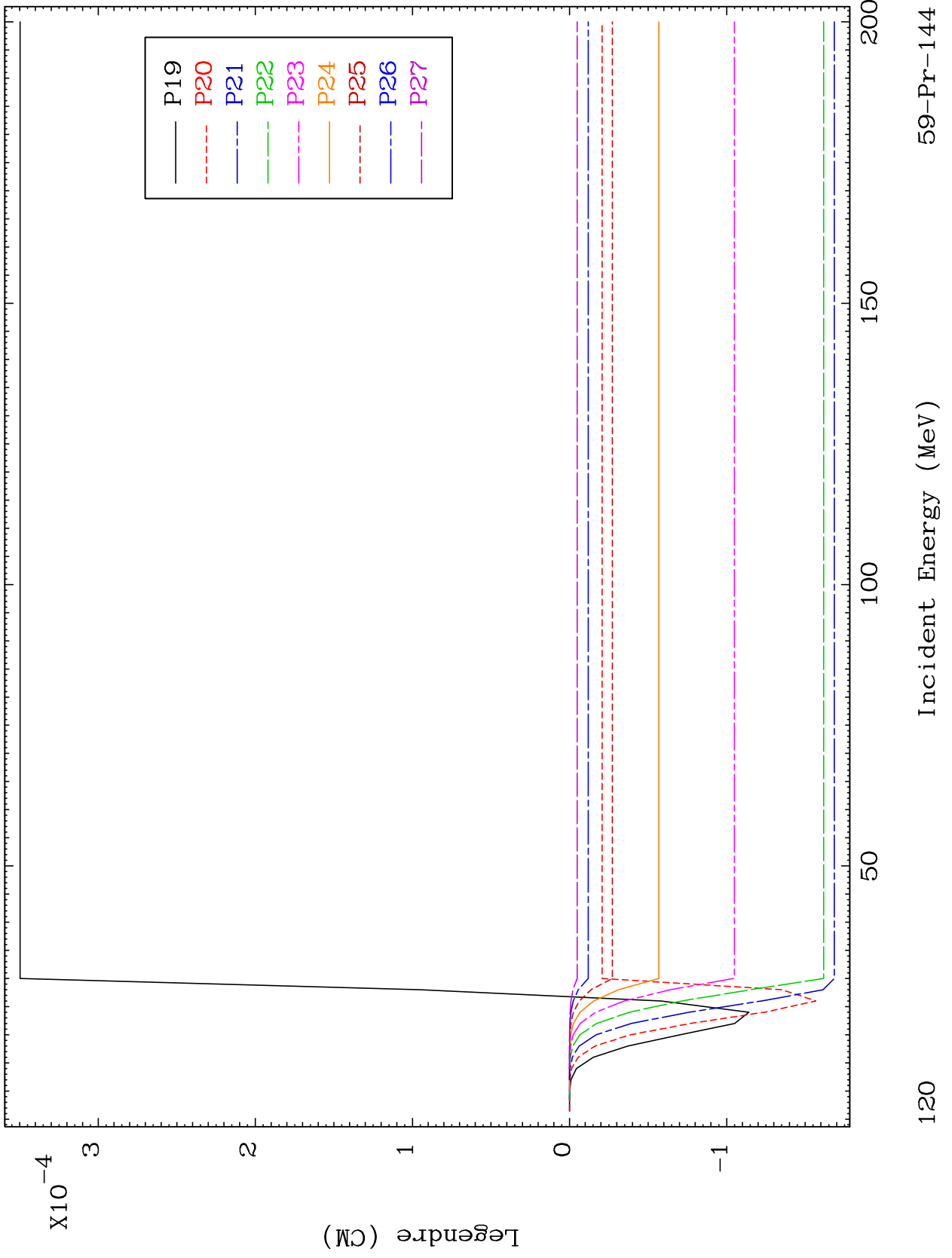
59-Pr-144



MAT 5934

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

59-Pr-144



120

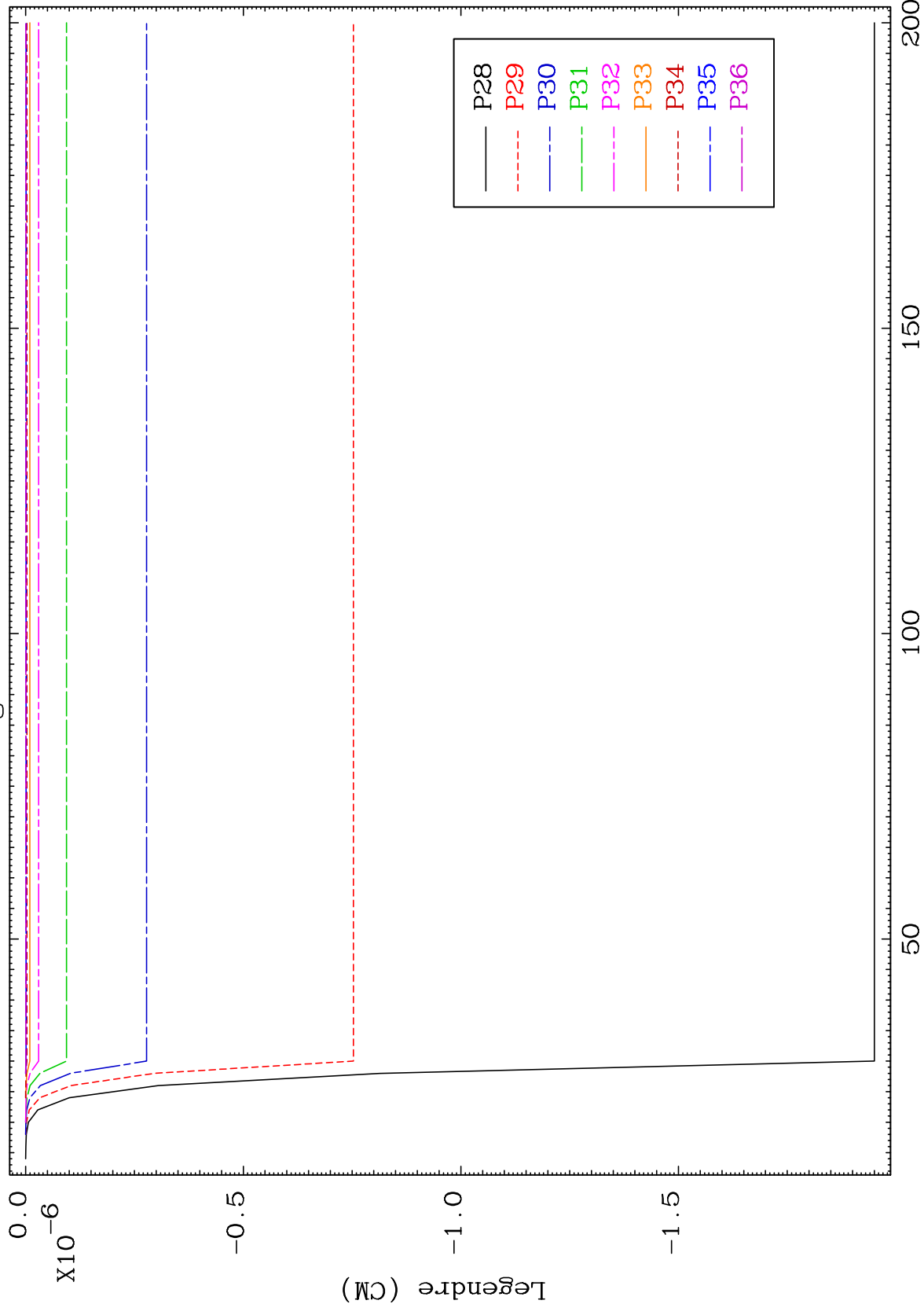
Incident Energy (MeV)

59-Pr-144

MAT 5934

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

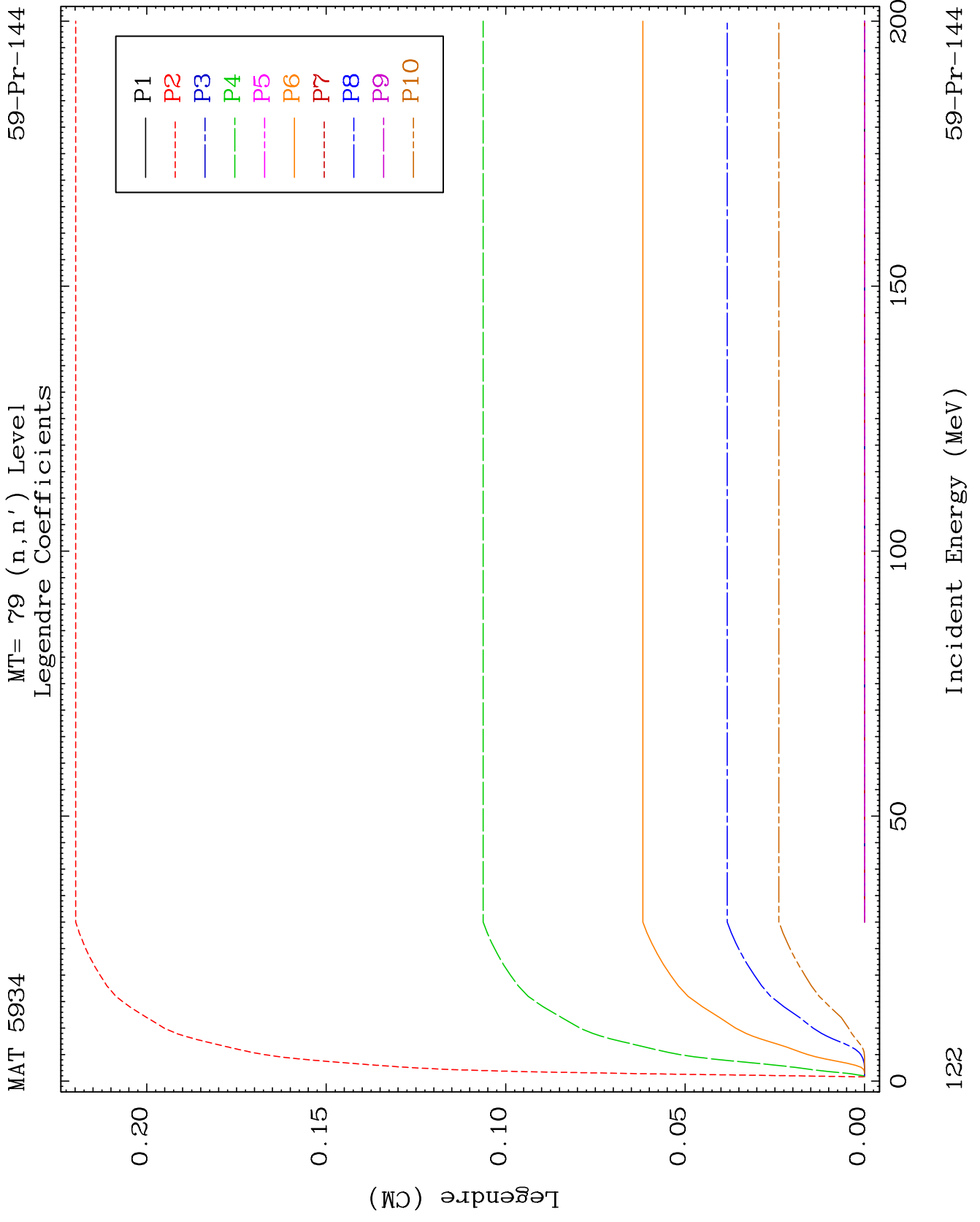
59-Pr-144



121

Incident Energy (MeV)

59-Pr-144



59-Pr-144

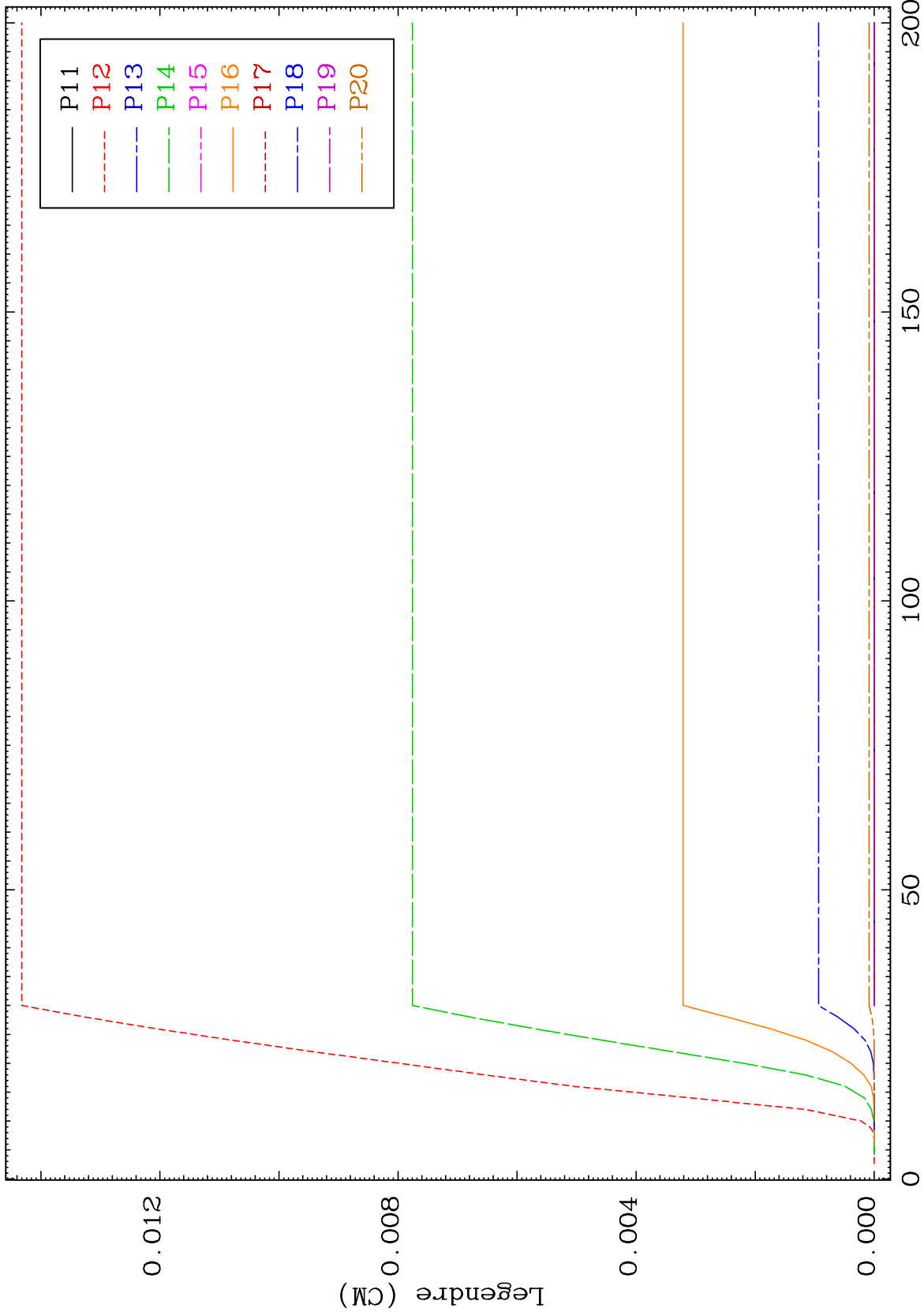
Incident Energy (MeV)

122

MAT 5934

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

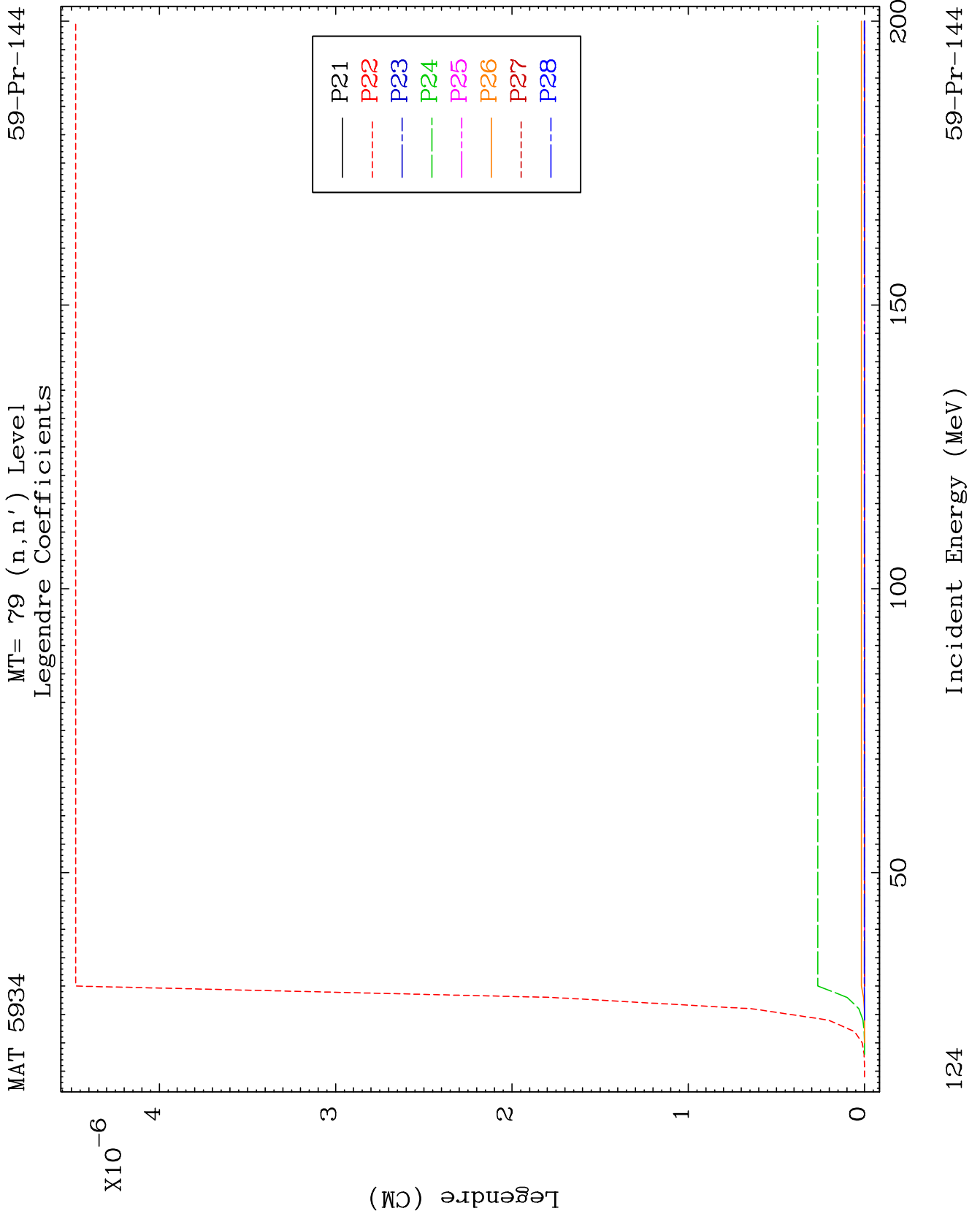
59-Pr-144



123

Incident Energy (MeV)

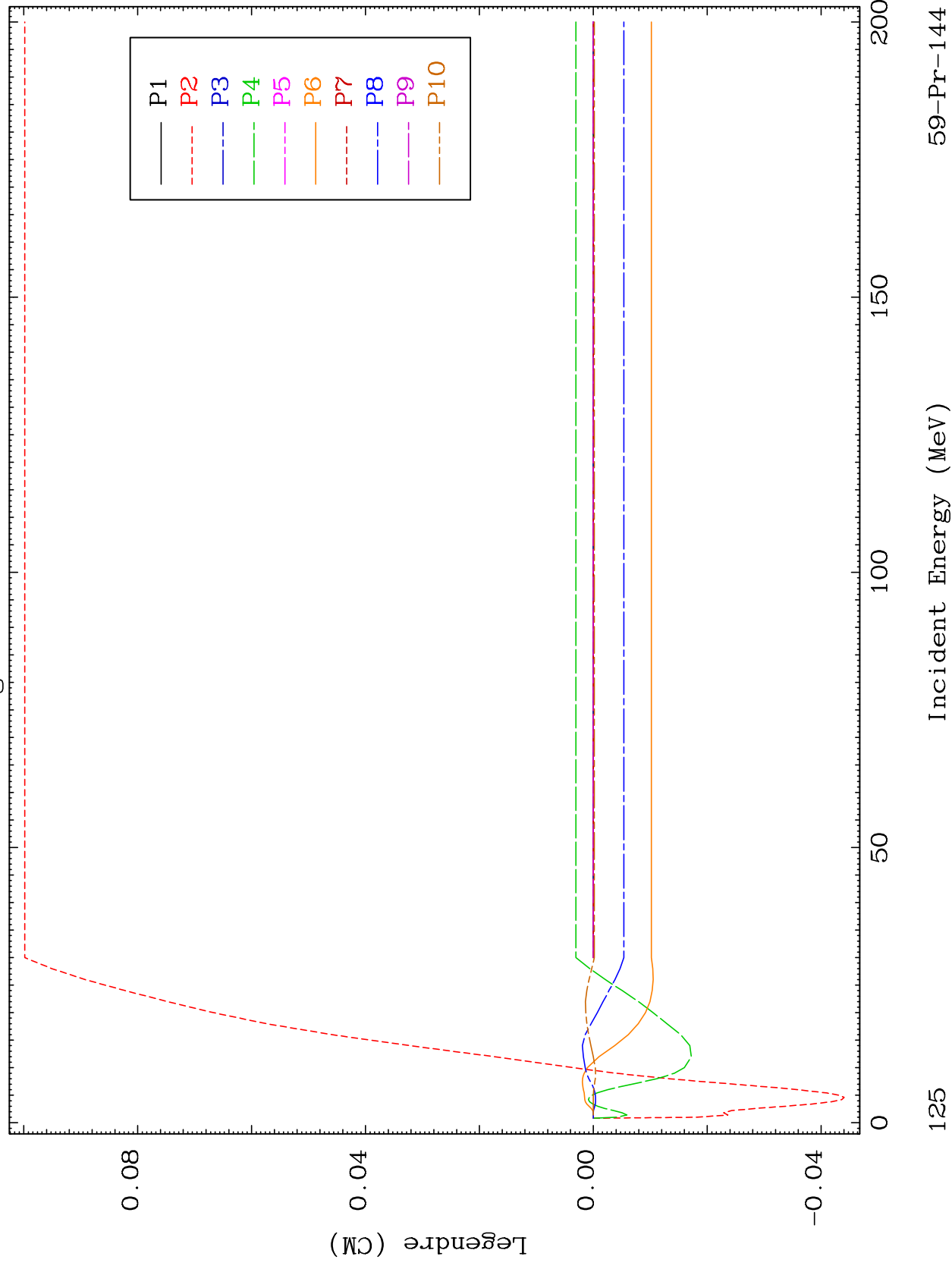
59-Pr-144



MAT 5934

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

59-Pr-144



59-Pr-144

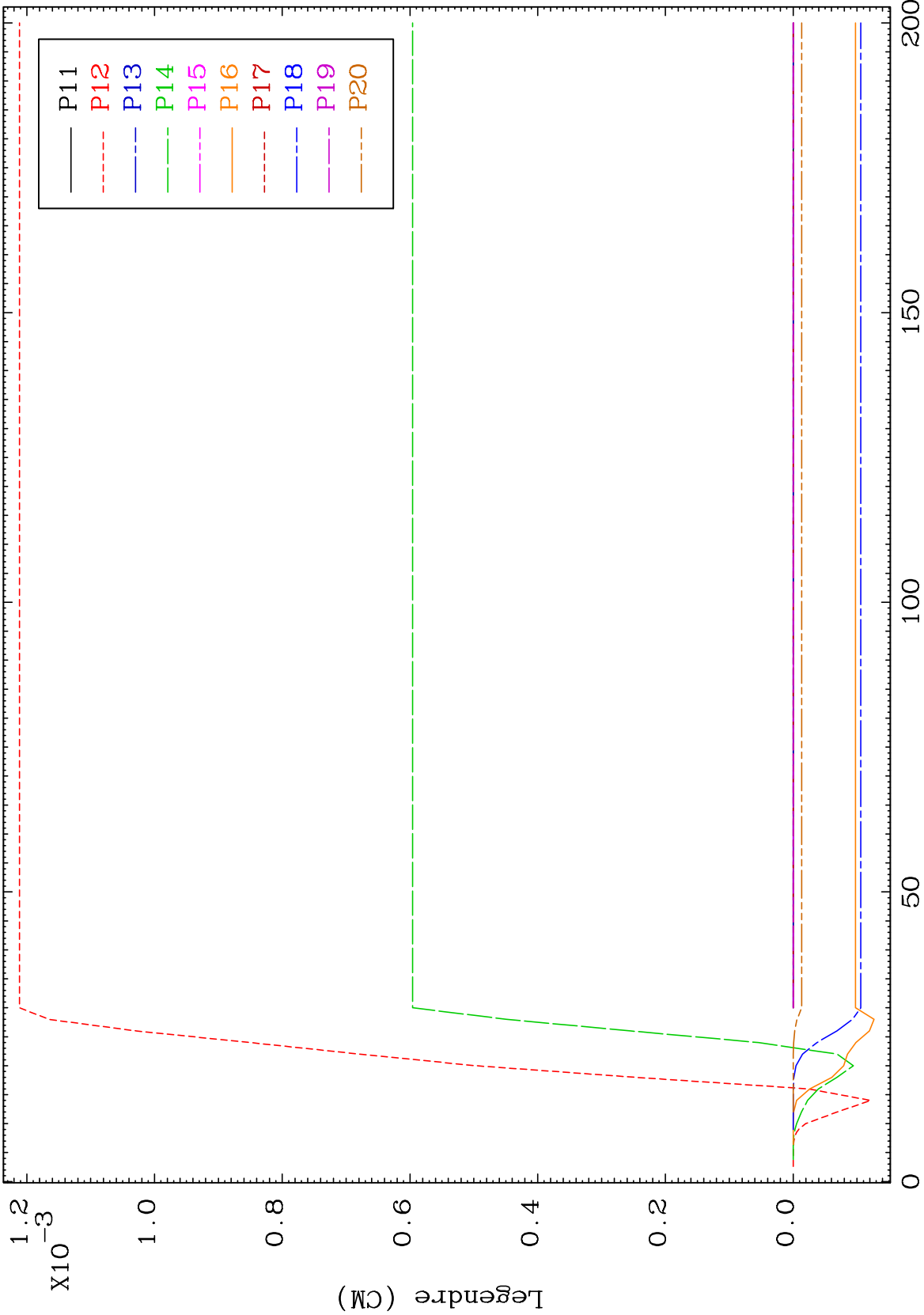
Incident Energy (MeV)

125

MAT 5934

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

59-Pr-144



59-Pr-144

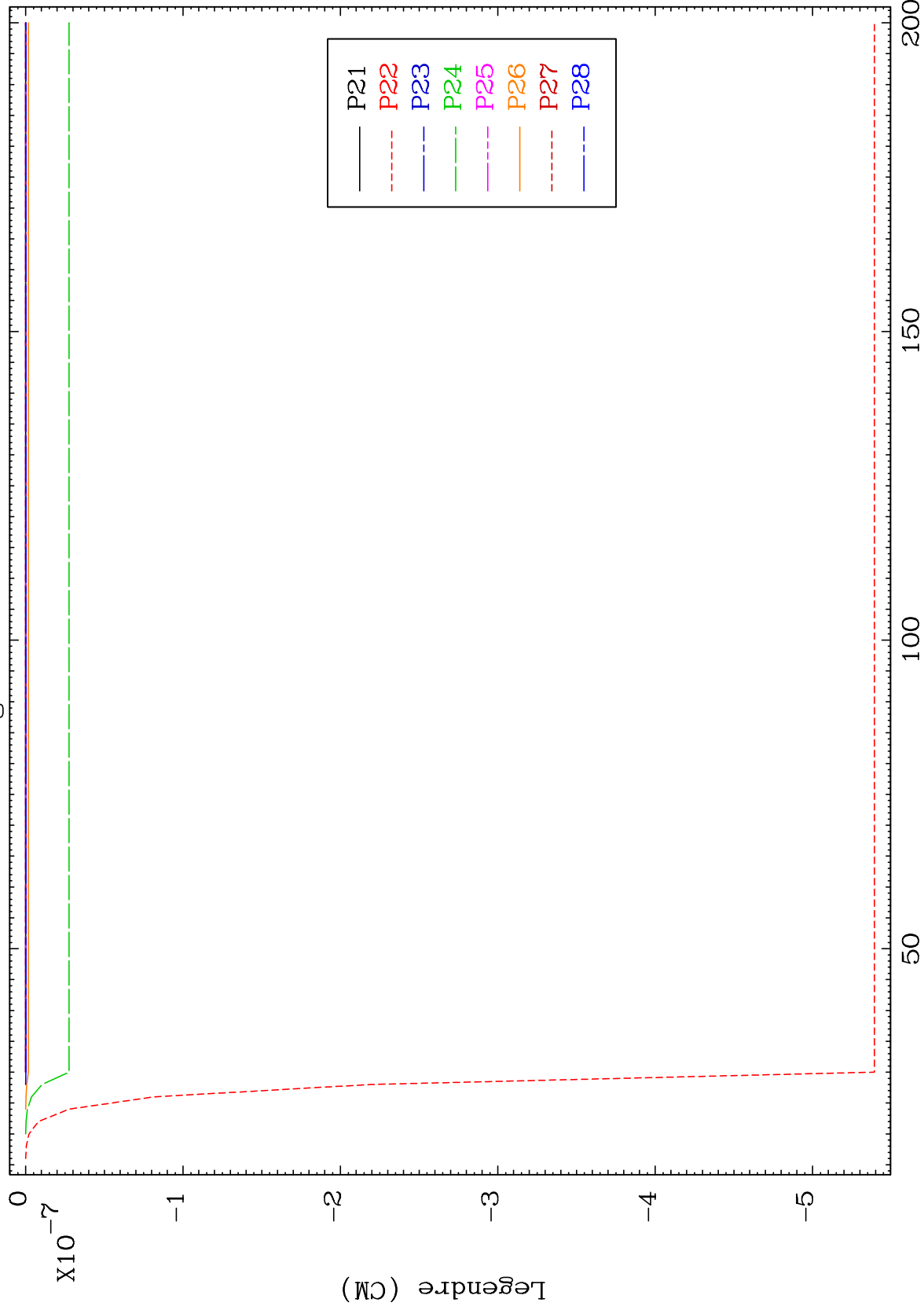
Incident Energy (MeV)

126

MAT 5934

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

59-Pr-144



127

Incident Energy (MeV)

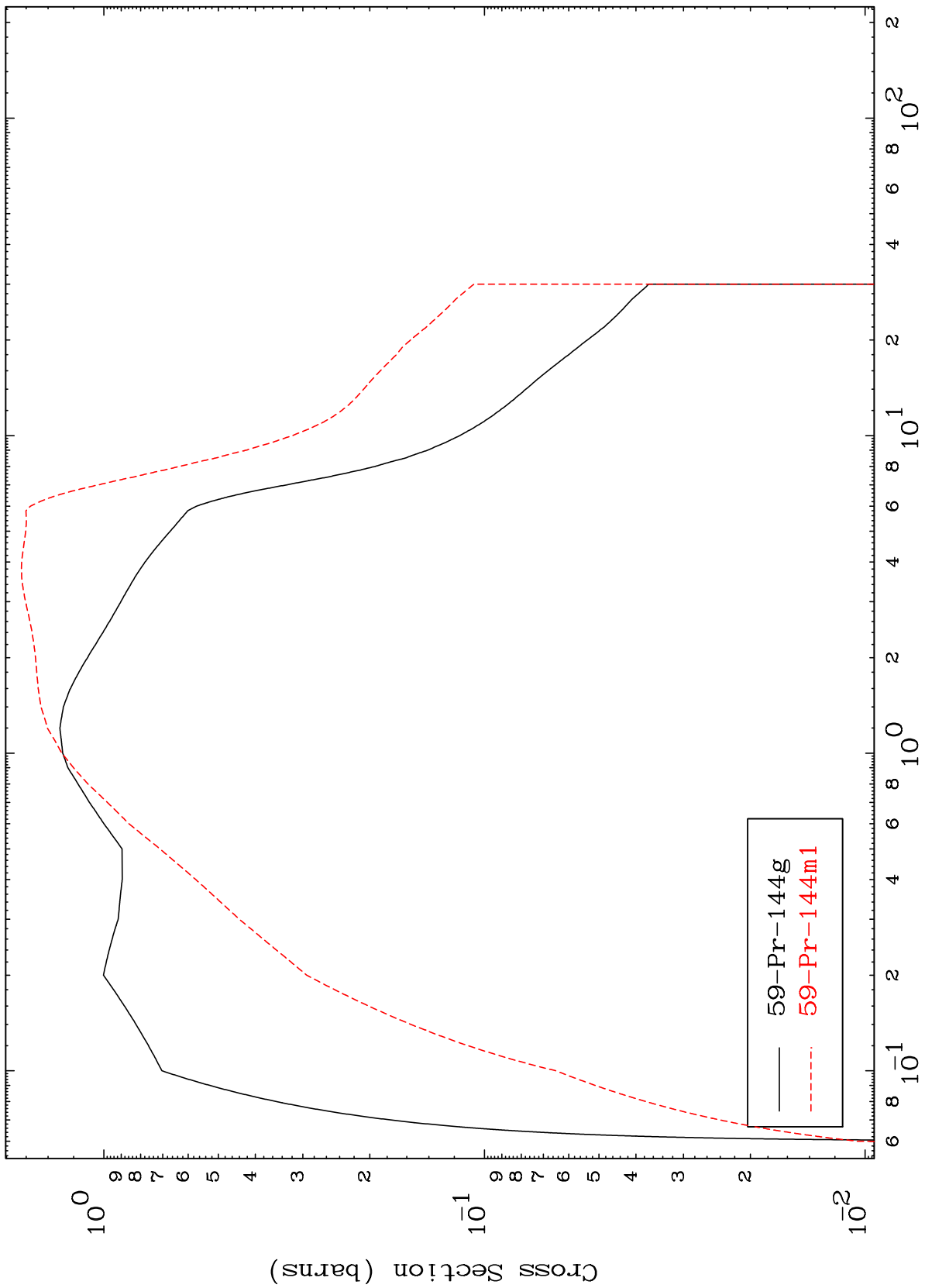
59-Pr-144



MAT 5934

59-Pr-144

Inelastic  
Radionuclide Production Cross Section

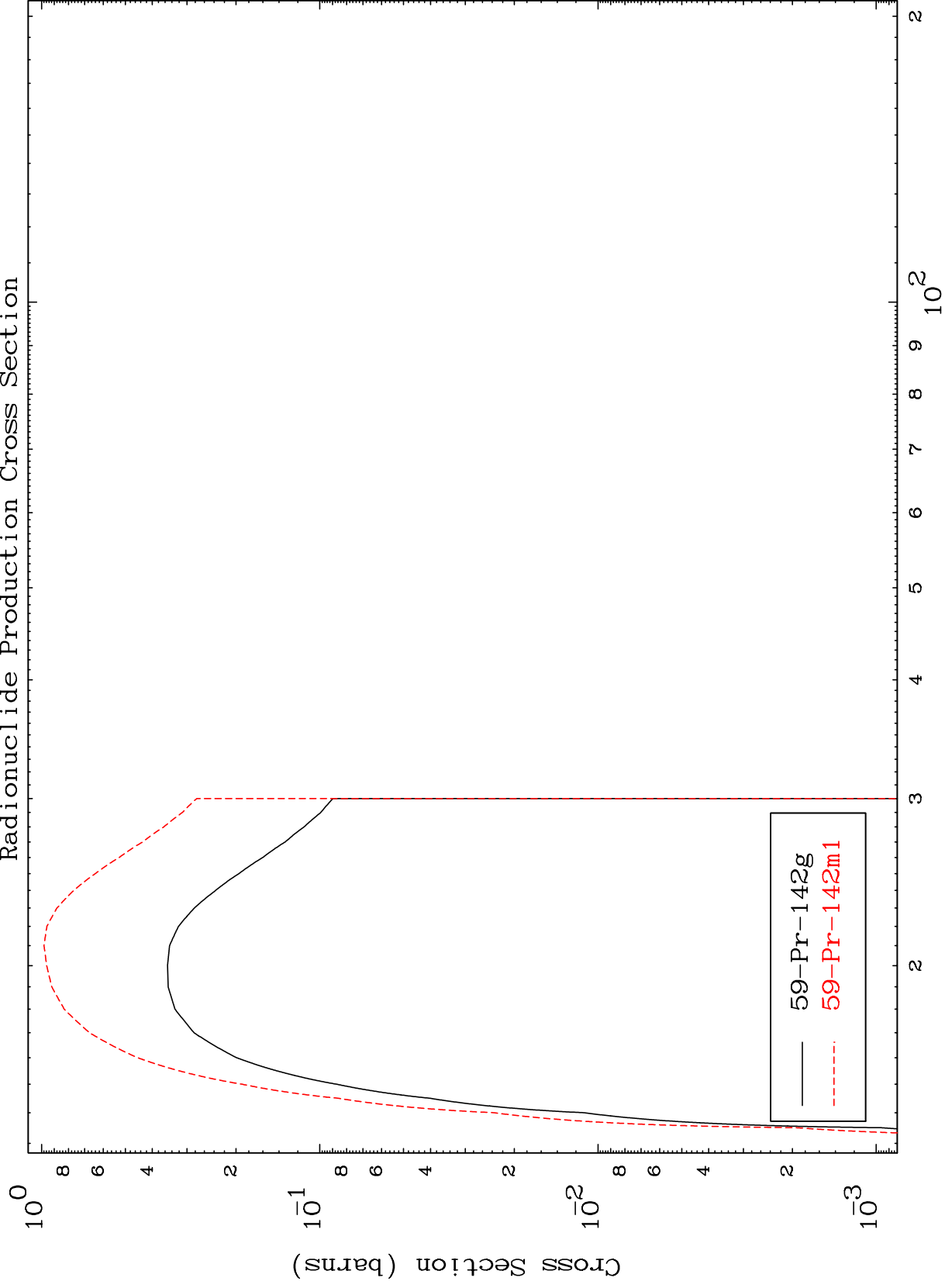


MAT 5934

(n,3n)

59-Pr-144

Radionuclide Production Cross Section



129

59-Pr-144

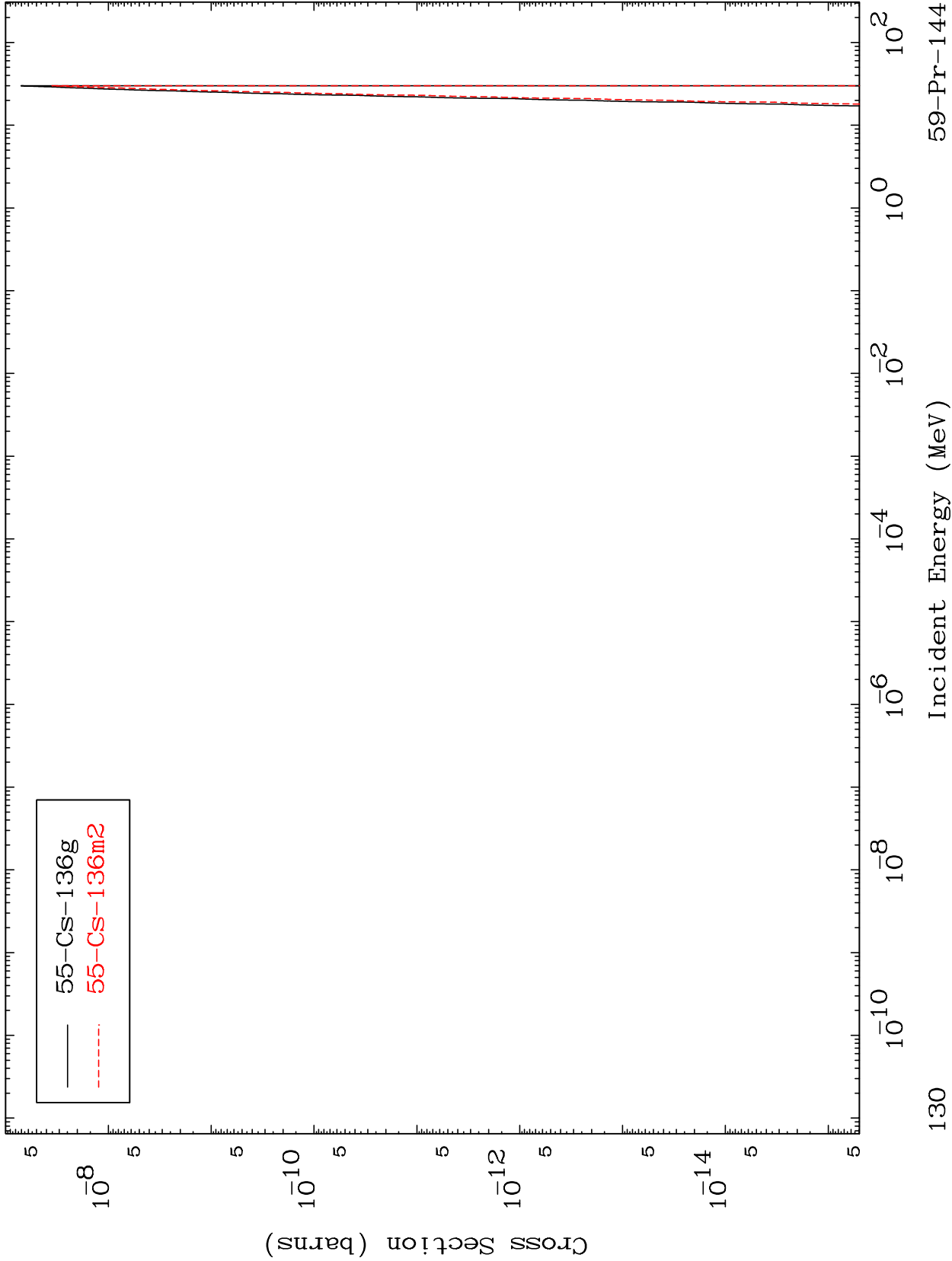
59-Pr-144

MAT 5934

(n,n') 2α

59-Pr-144

Radionuclide Production Cross Section



130

59-Pr-144