

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](mailto:redcullen1@comcast.net)

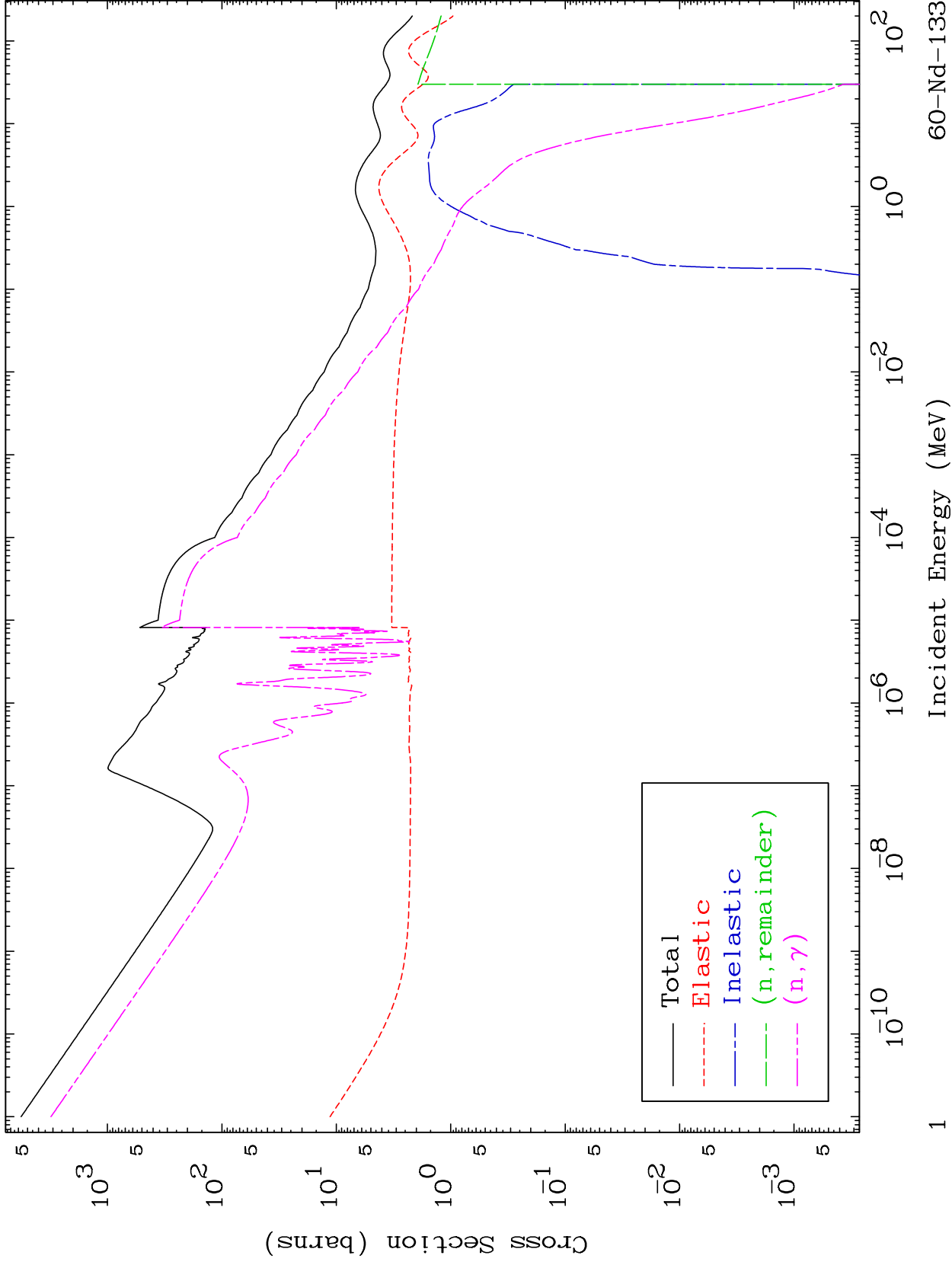
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 5998

Major  
293 Kelvin Cross Sections

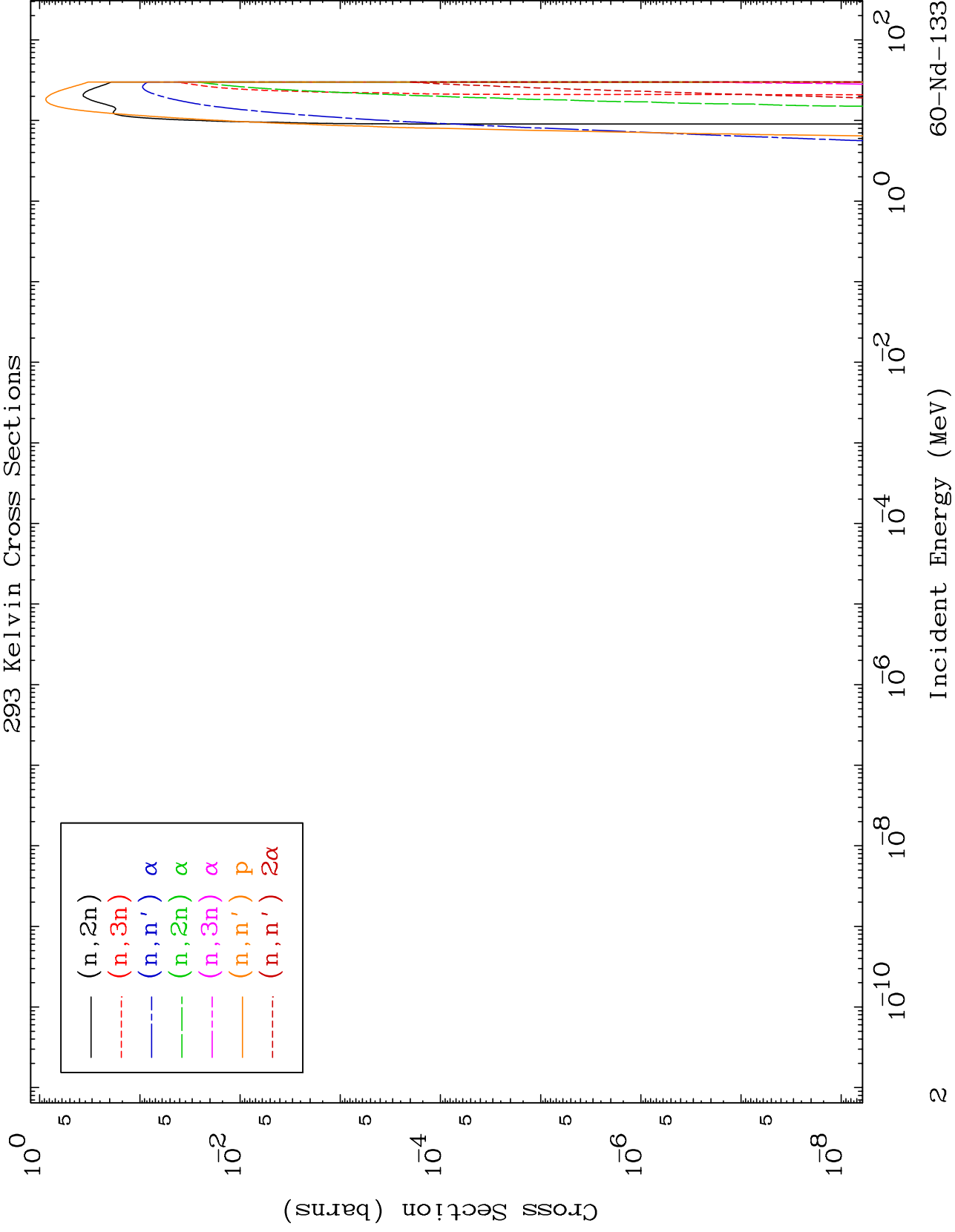
60-Nd-133



MAT 5998

Neutron Production  
293 Kelvin Cross Sections

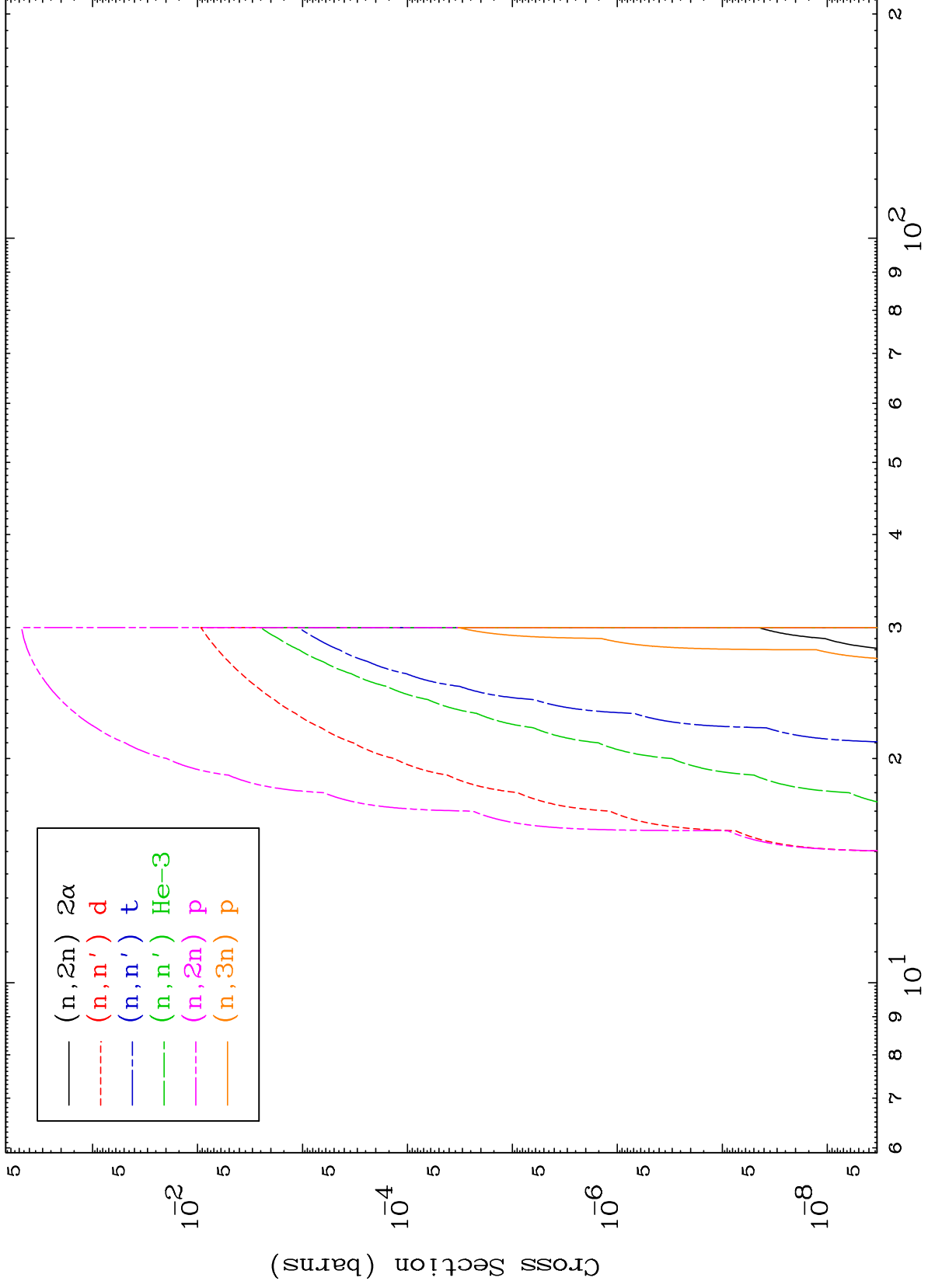
60-Nd-133



MAT 5998

Neutron Production  
293 Kelvin Cross Sections

60-Nd-133



Incident Energy (MeV)

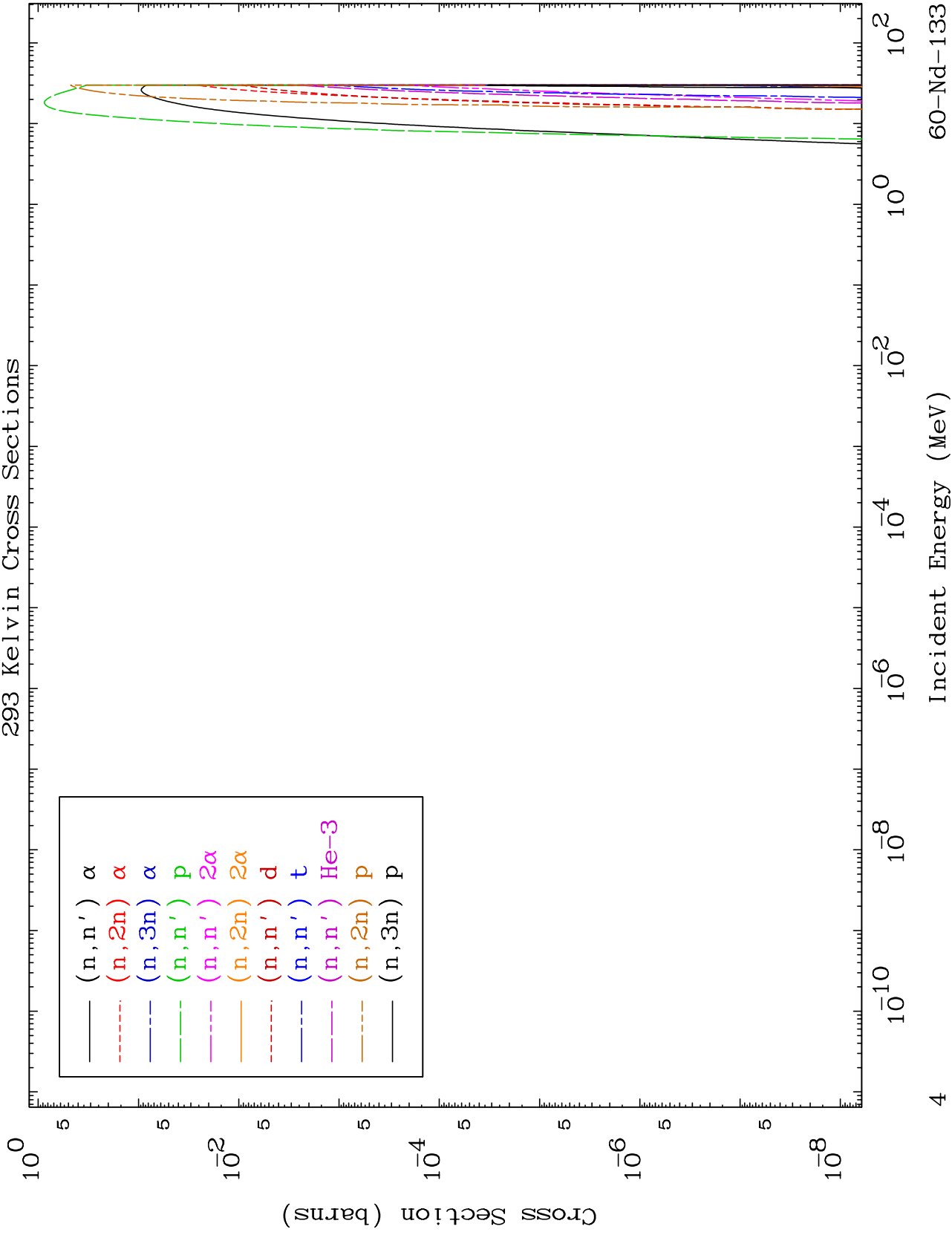
60-Nd-133

3

MAT 5998

Charged Particle  
293 Kelvin Cross Sections

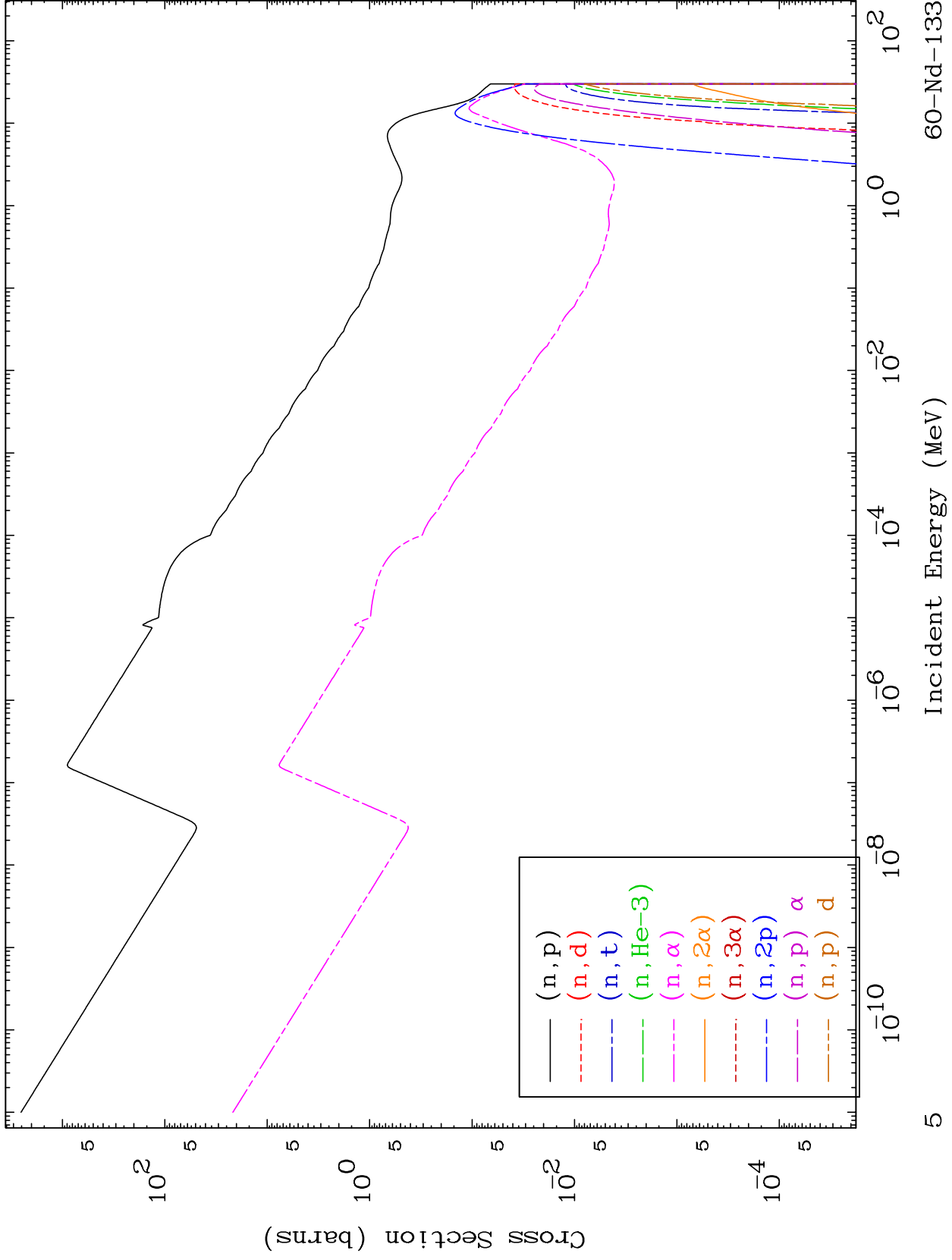
60-Nd-133



MAT 5998

Charged Particle  
293 Kelvin Cross Sections

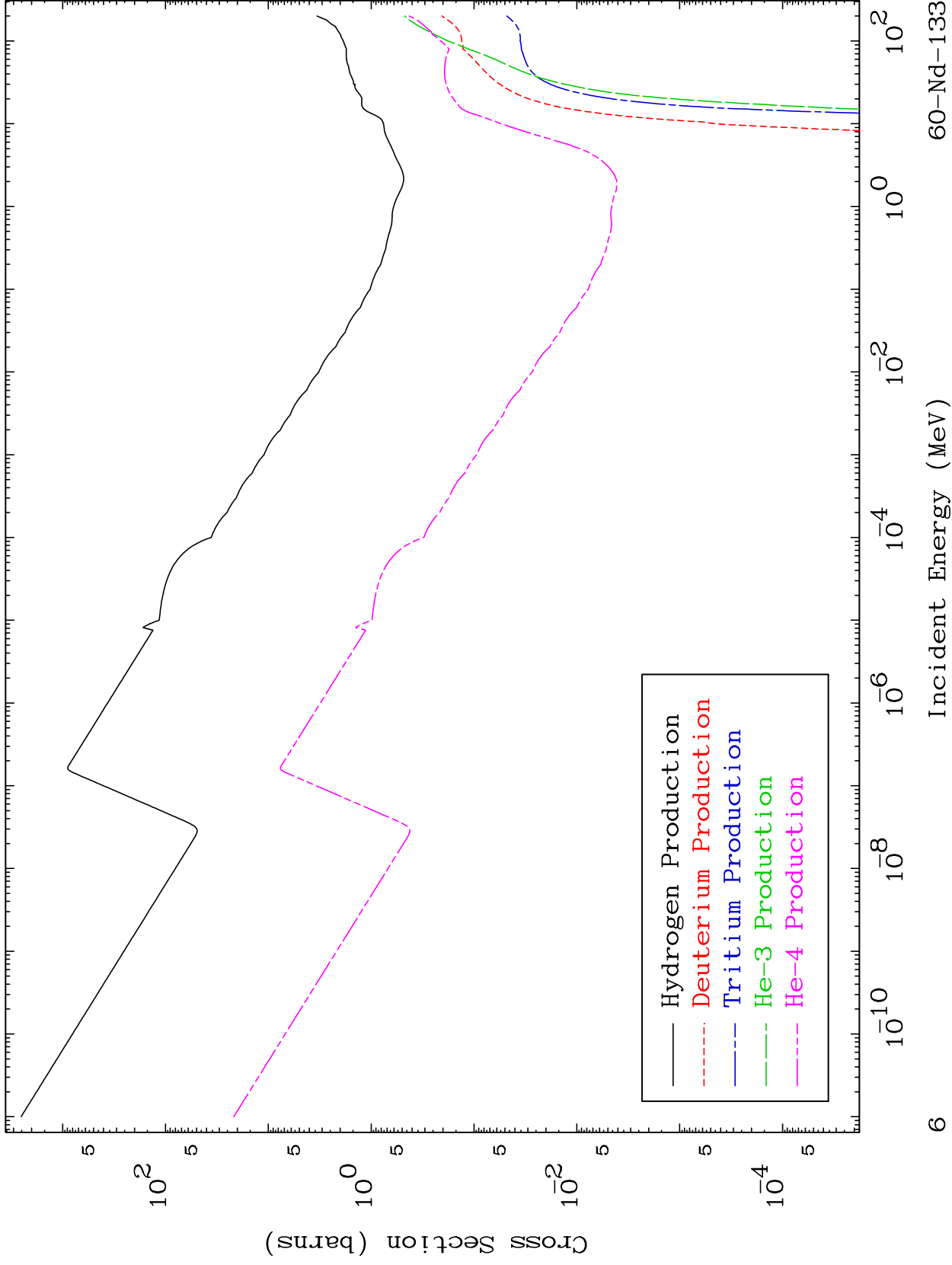
60-Nd-133



MAT 5998

Particle Production  
293 Kelvin Cross Sections

60-Nd-133

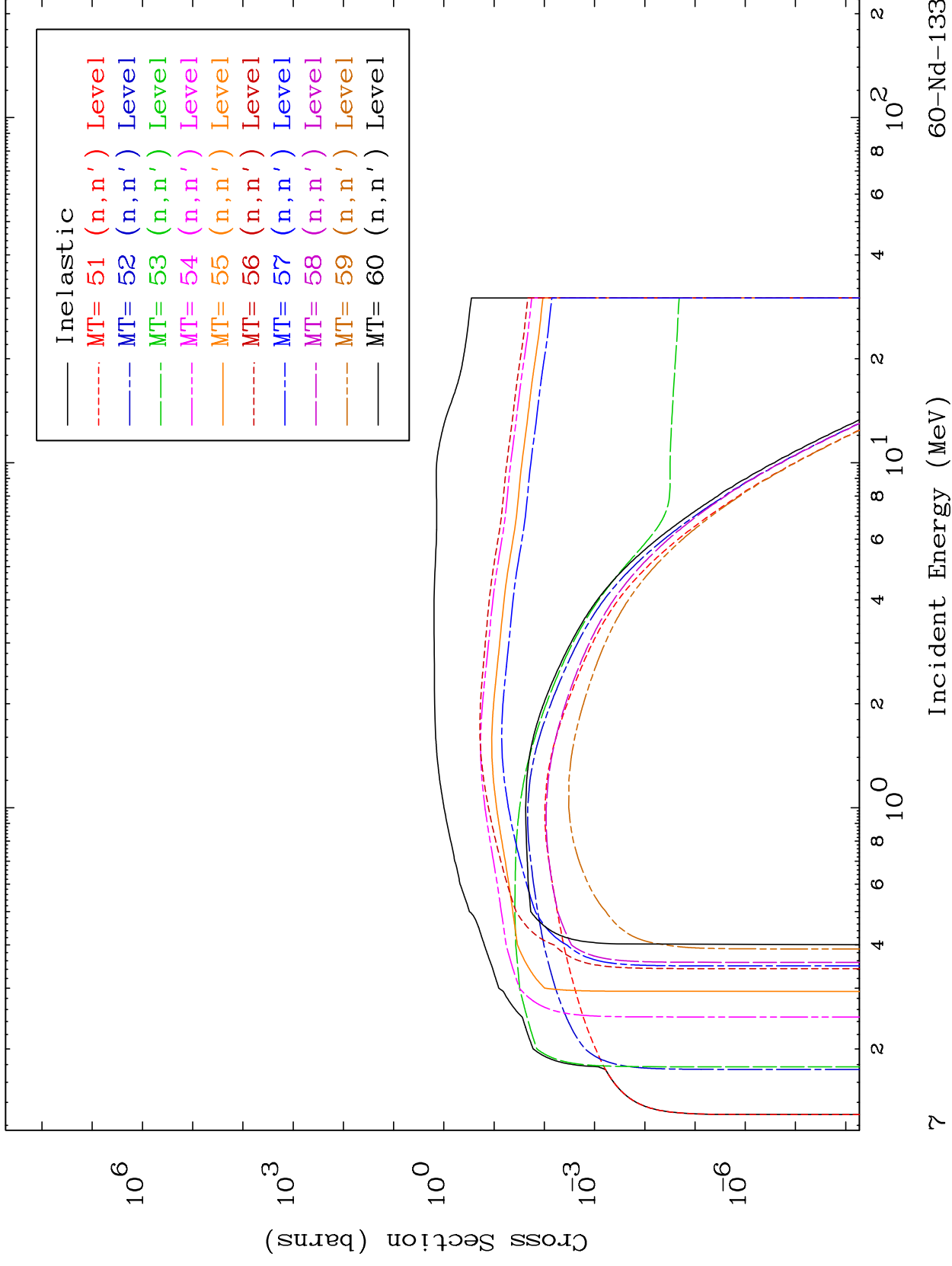


MAT 5998

(n,n') Level

60-Nd-133

293 Kelvin Cross Sections



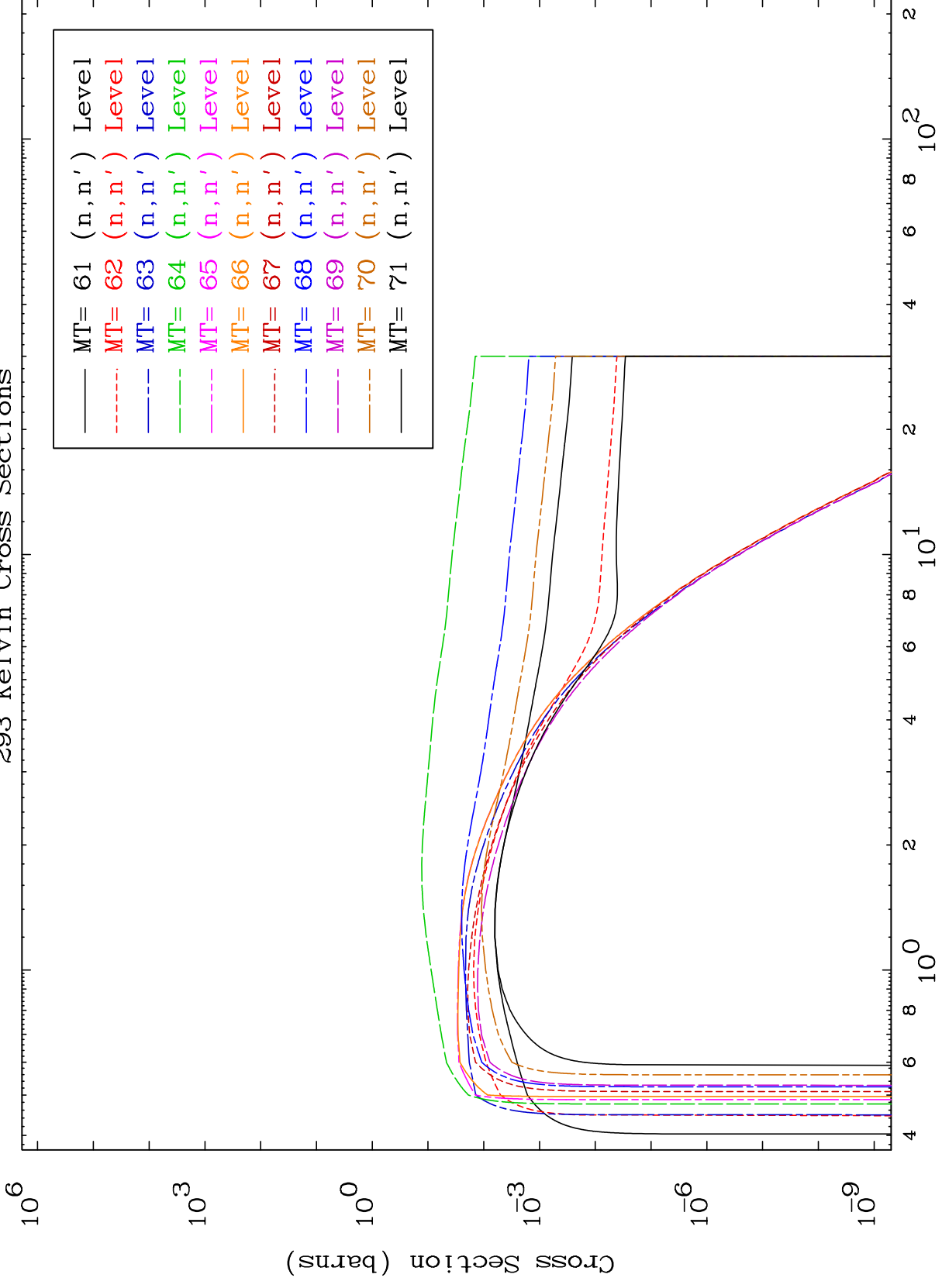


MAT 5998

(n,n') Level

60-Nd-133

293 Kelvin Cross Sections



Incident Energy (MeV)

60-Nd-133

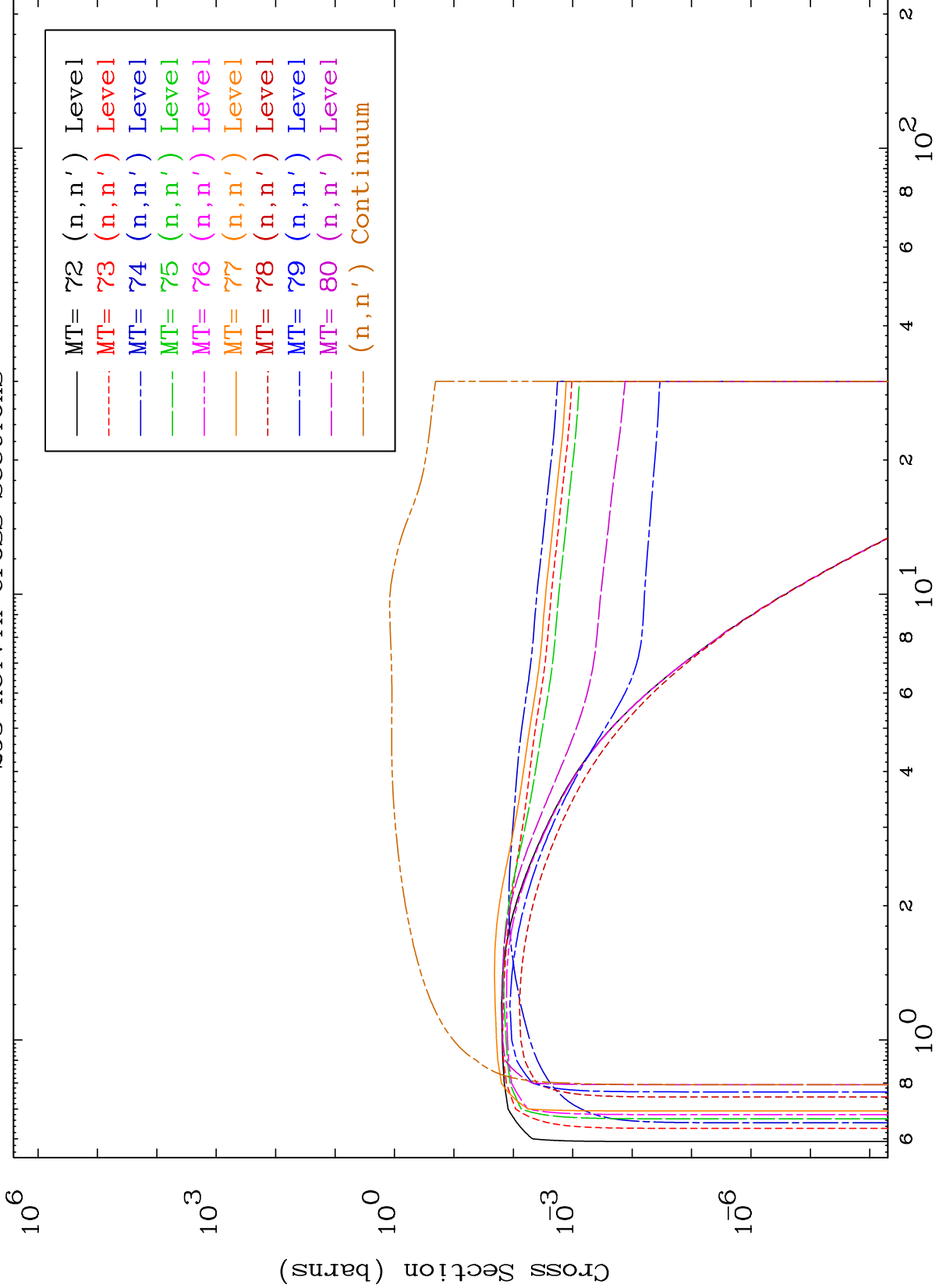
8

MAT 5998

(n,n') Level

60-Nd-133

293 Kelvin Cross Sections



9

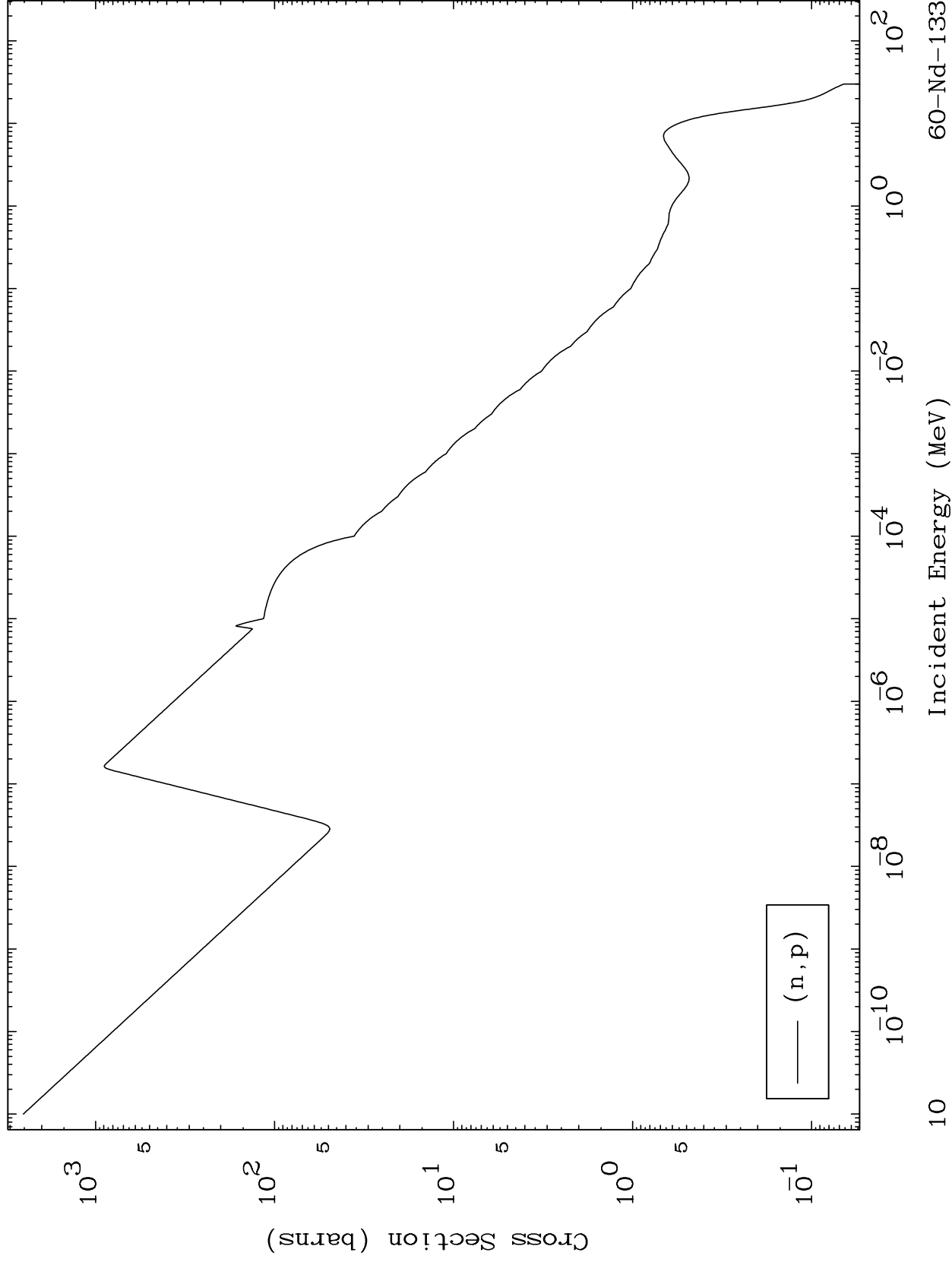
Incident Energy (MeV)

60-Nd-133

MAT 5998

(n,p) Levels  
293 Kelvin Cross Sections

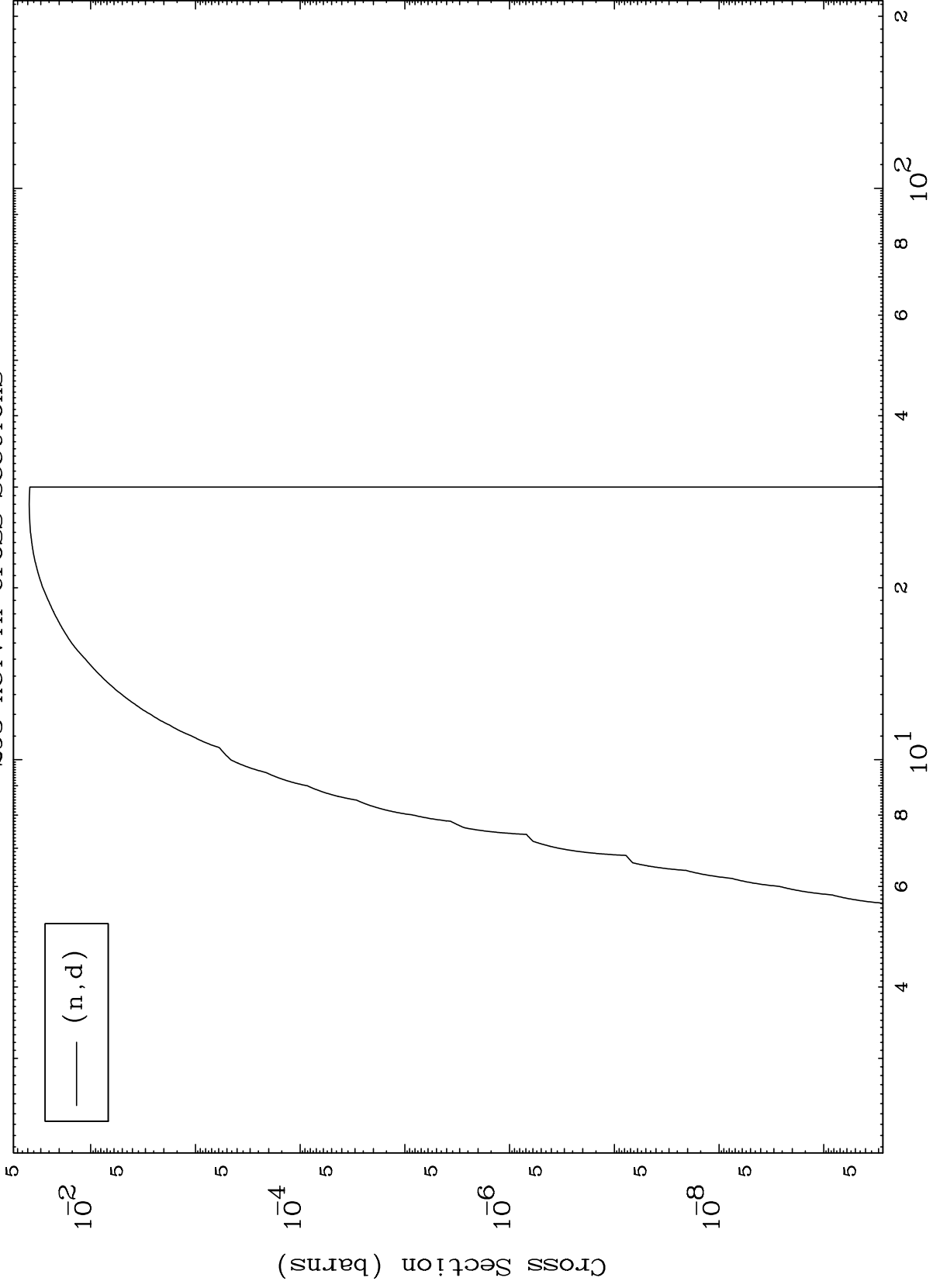
60-Nd-133



MAT 5998

(n,d) Levels  
293 Kelvin Cross Sections

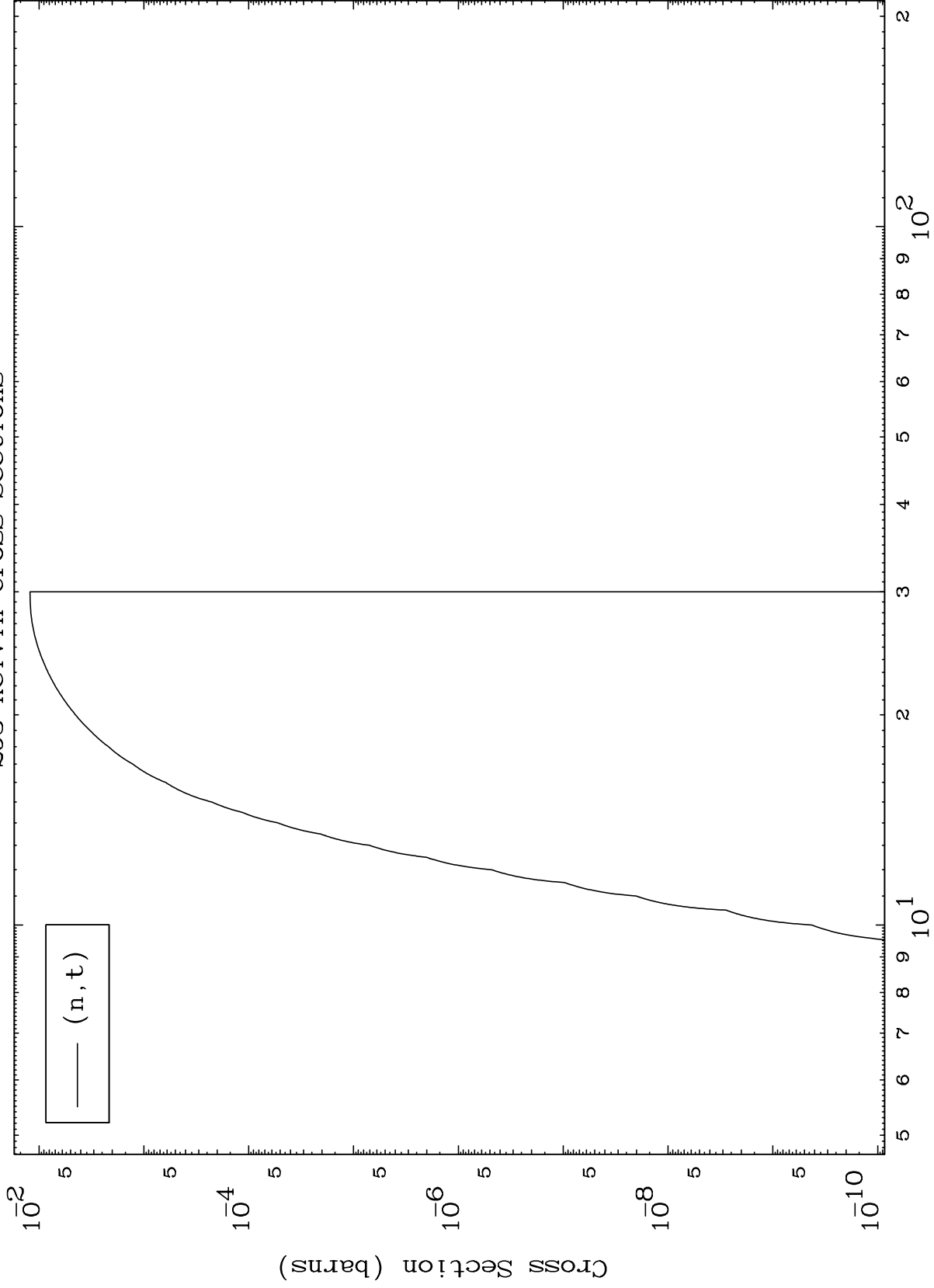
60-Nd-133



MAT 5998

(n,t) Levels  
293 Kelvin Cross Sections

60-Nd-133



12

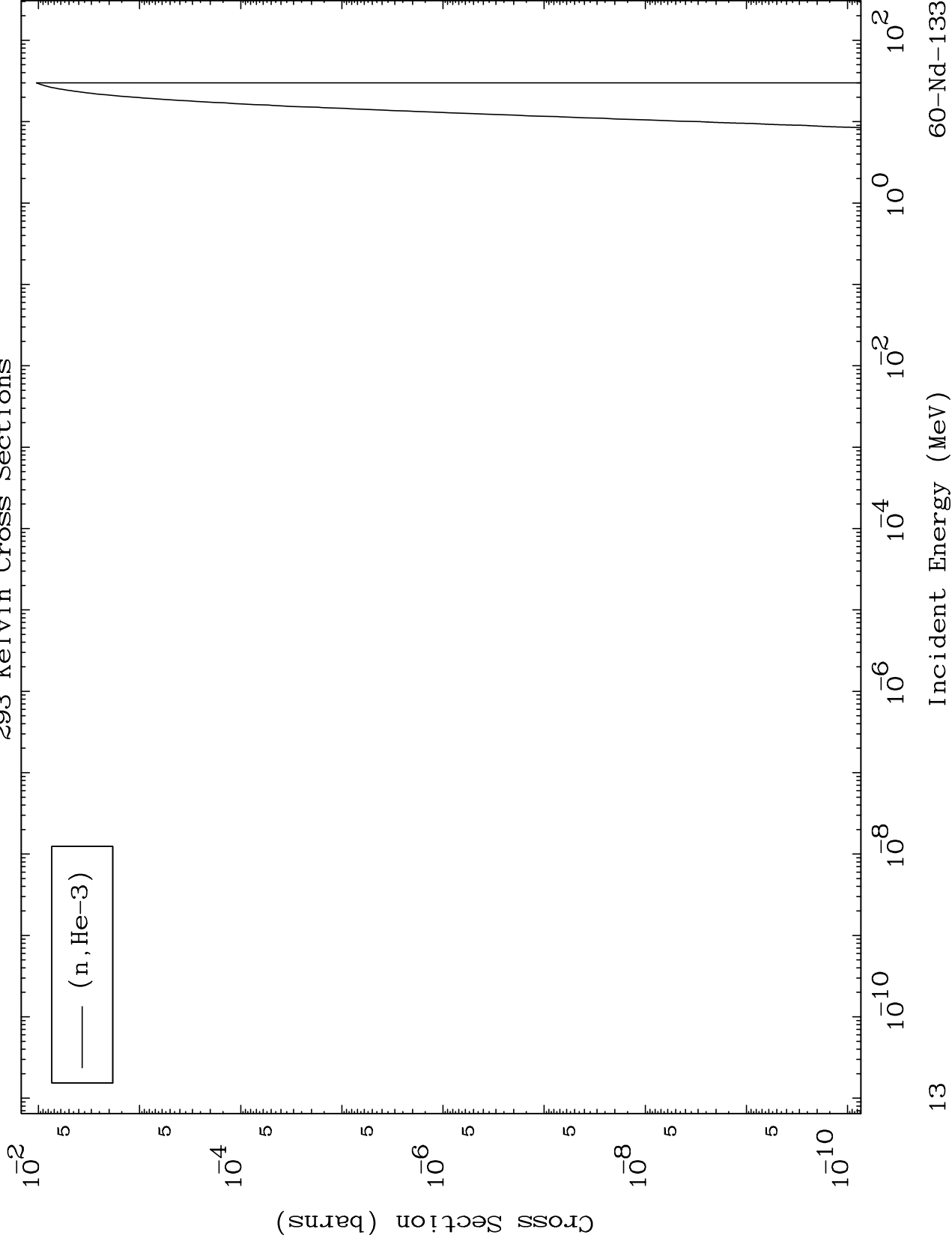
Incident Energy (MeV)

60-Nd-133

MAT 5998

(n,He3) Levels  
293 Kelvin Cross Sections

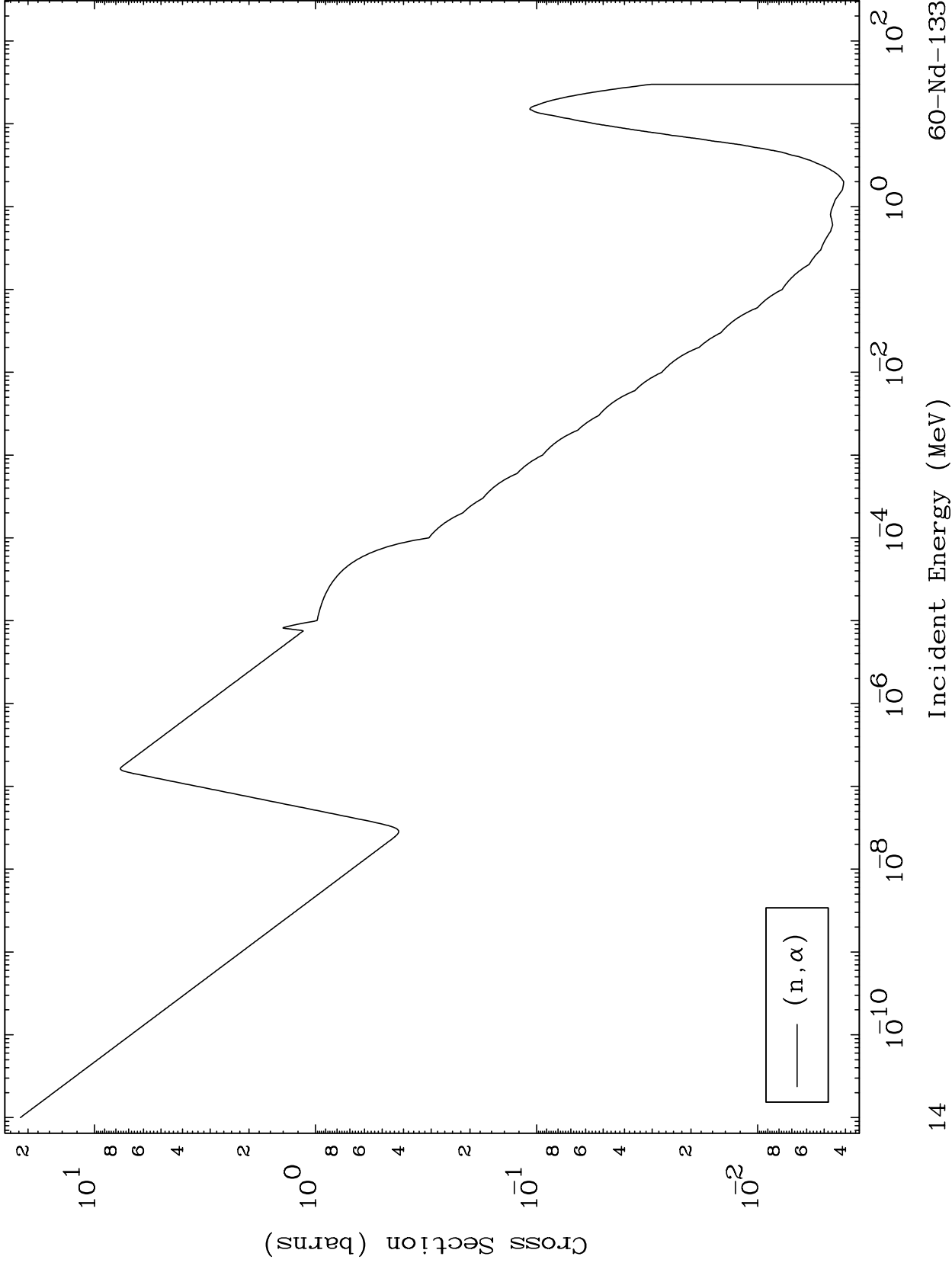
60-Nd-133

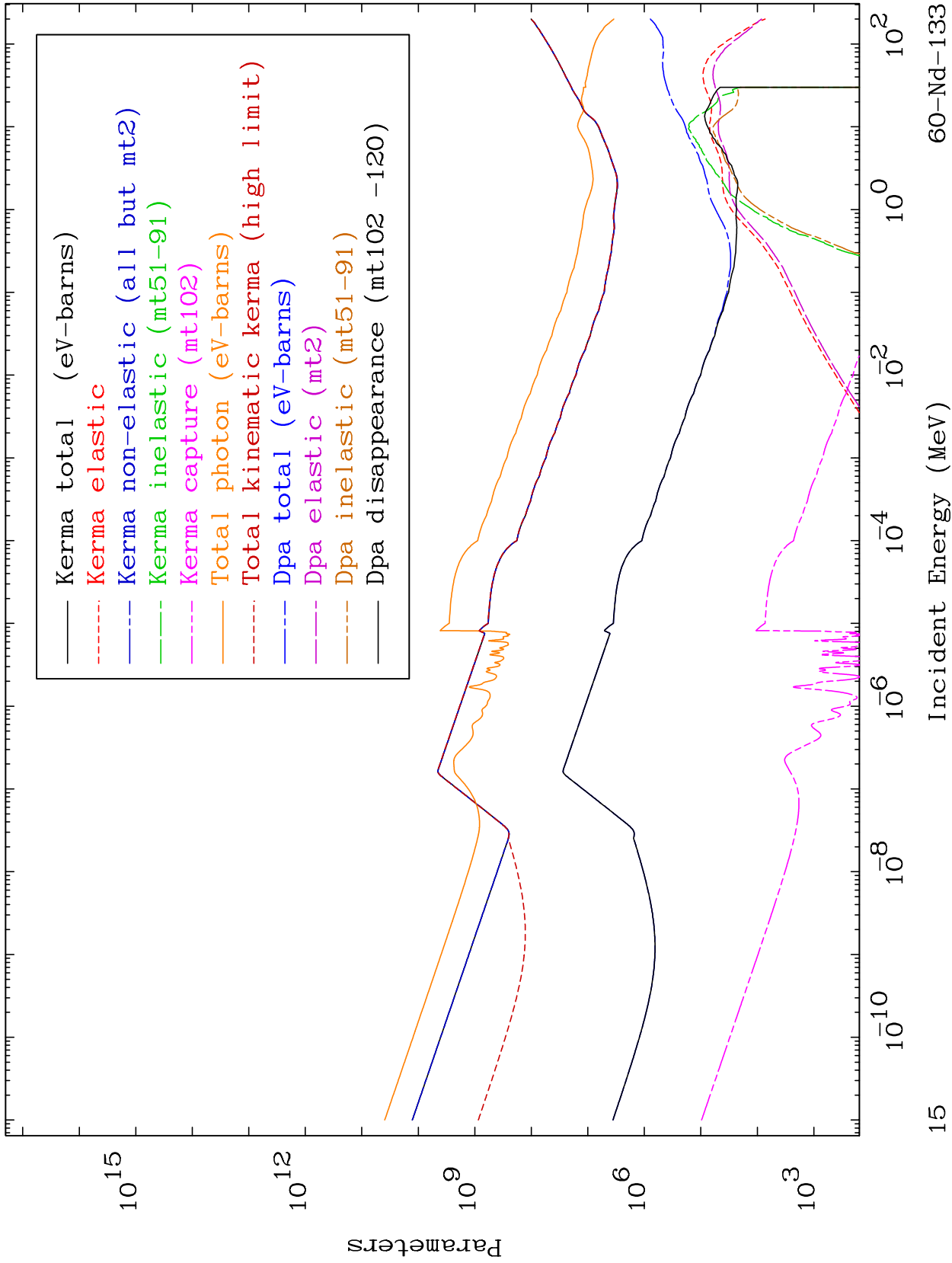


MAT 5998

(n,α) Levels  
293 Kelvin Cross Sections

60-Nd-133



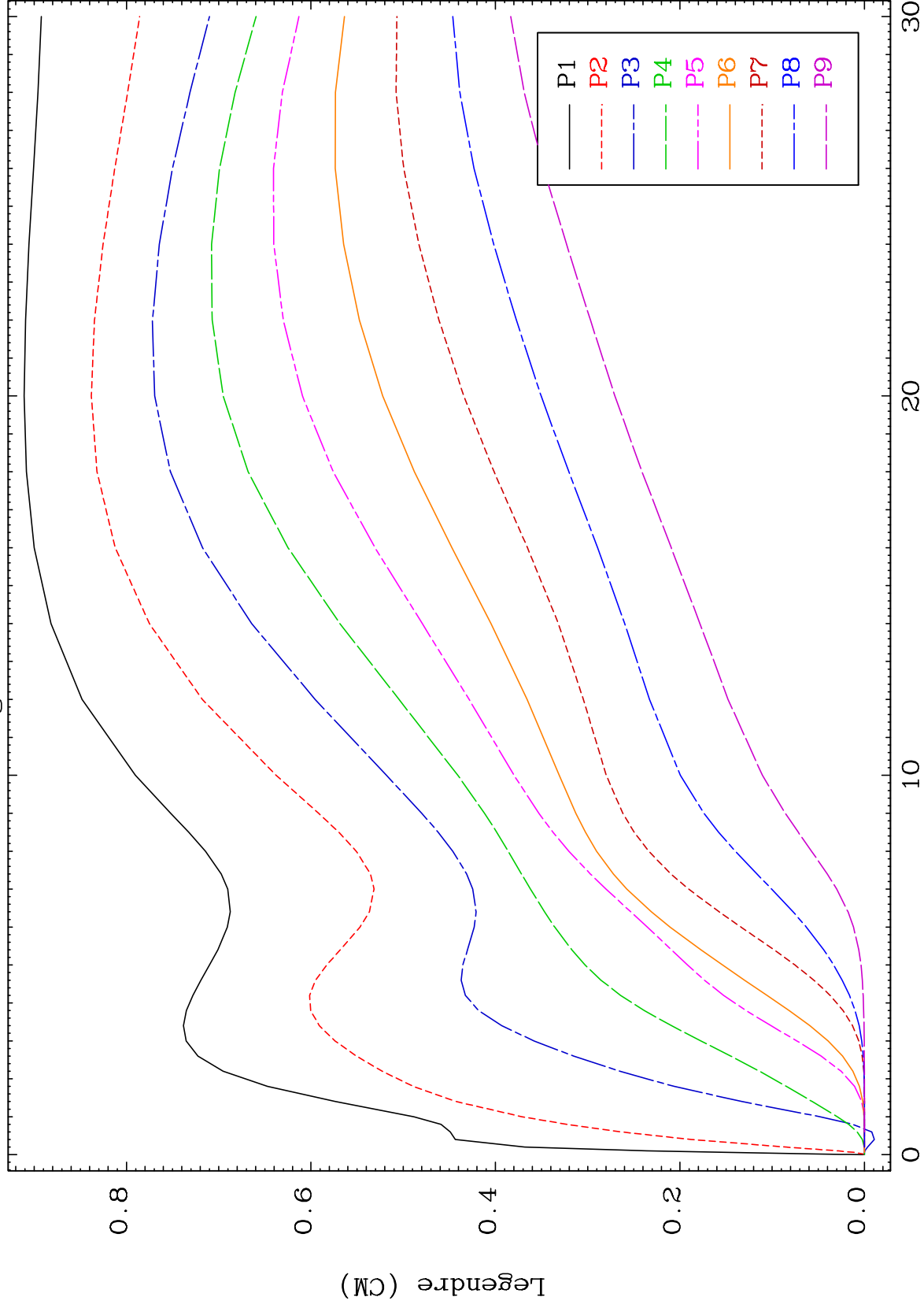




MAT 5998

Elastic Legendre Coefficients

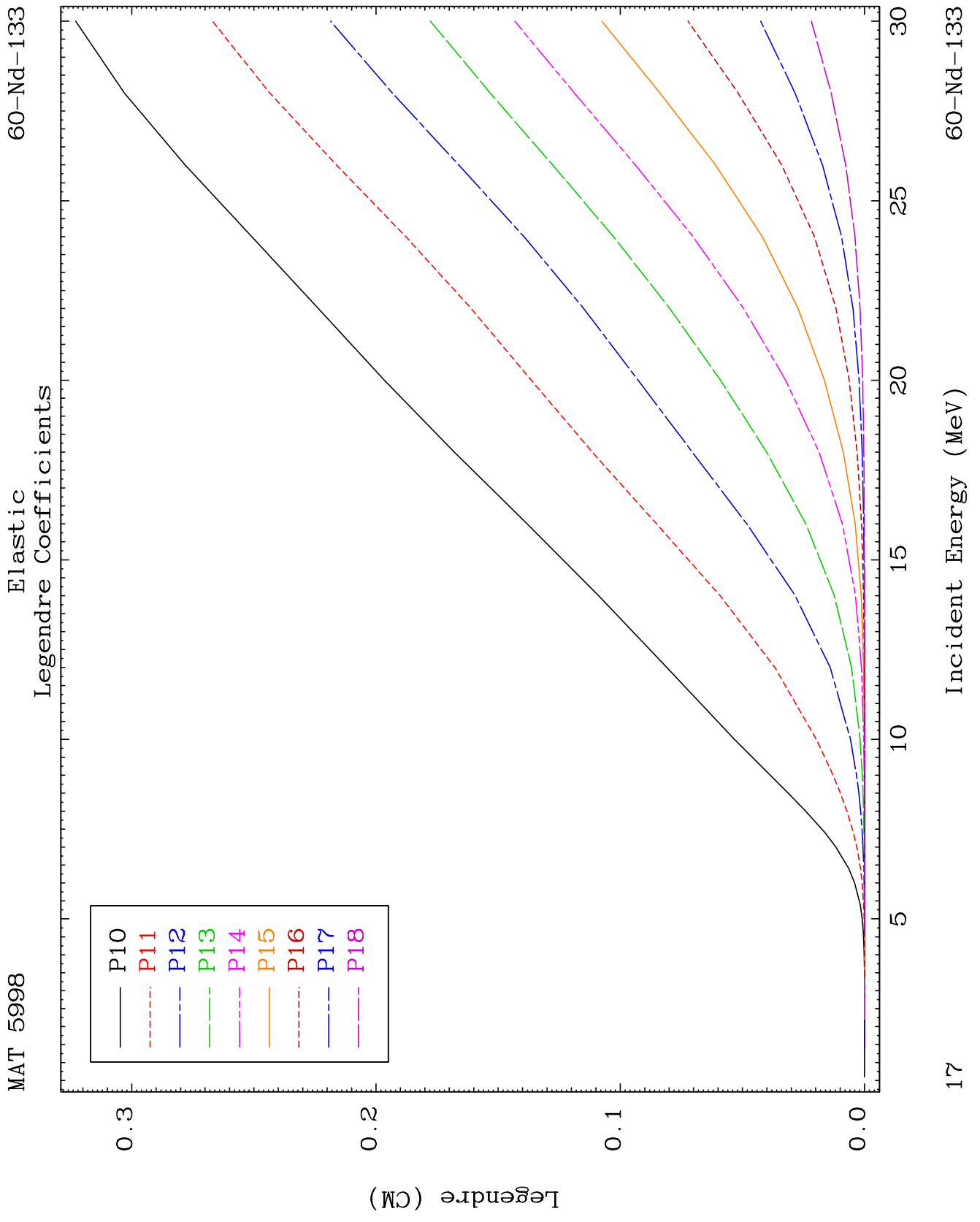
60-Nd-133



16

Incident Energy (MeV)

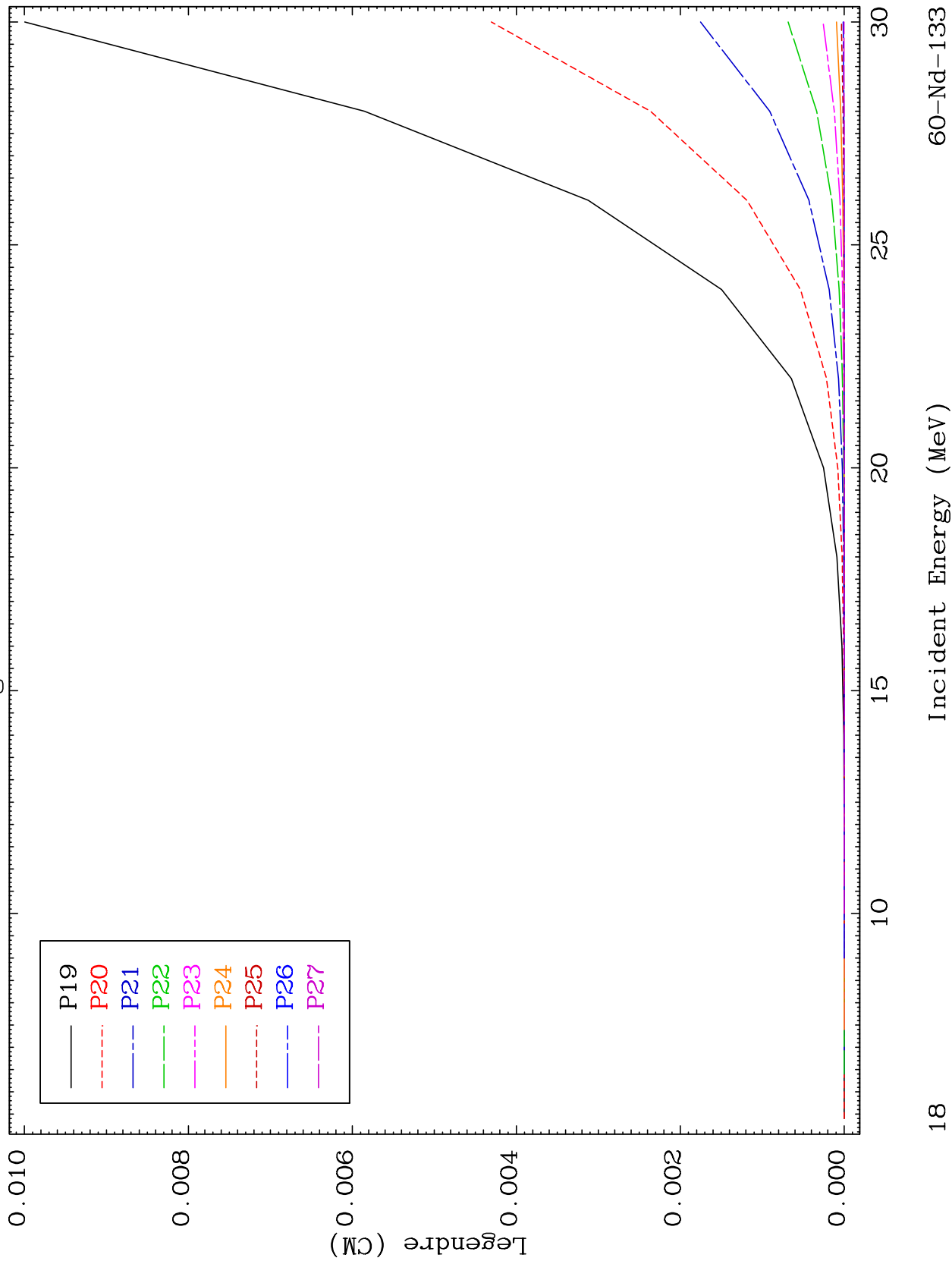
60-Nd-133



MAT 5998

### Elastic Legendre Coefficients

60-Nd-133



18

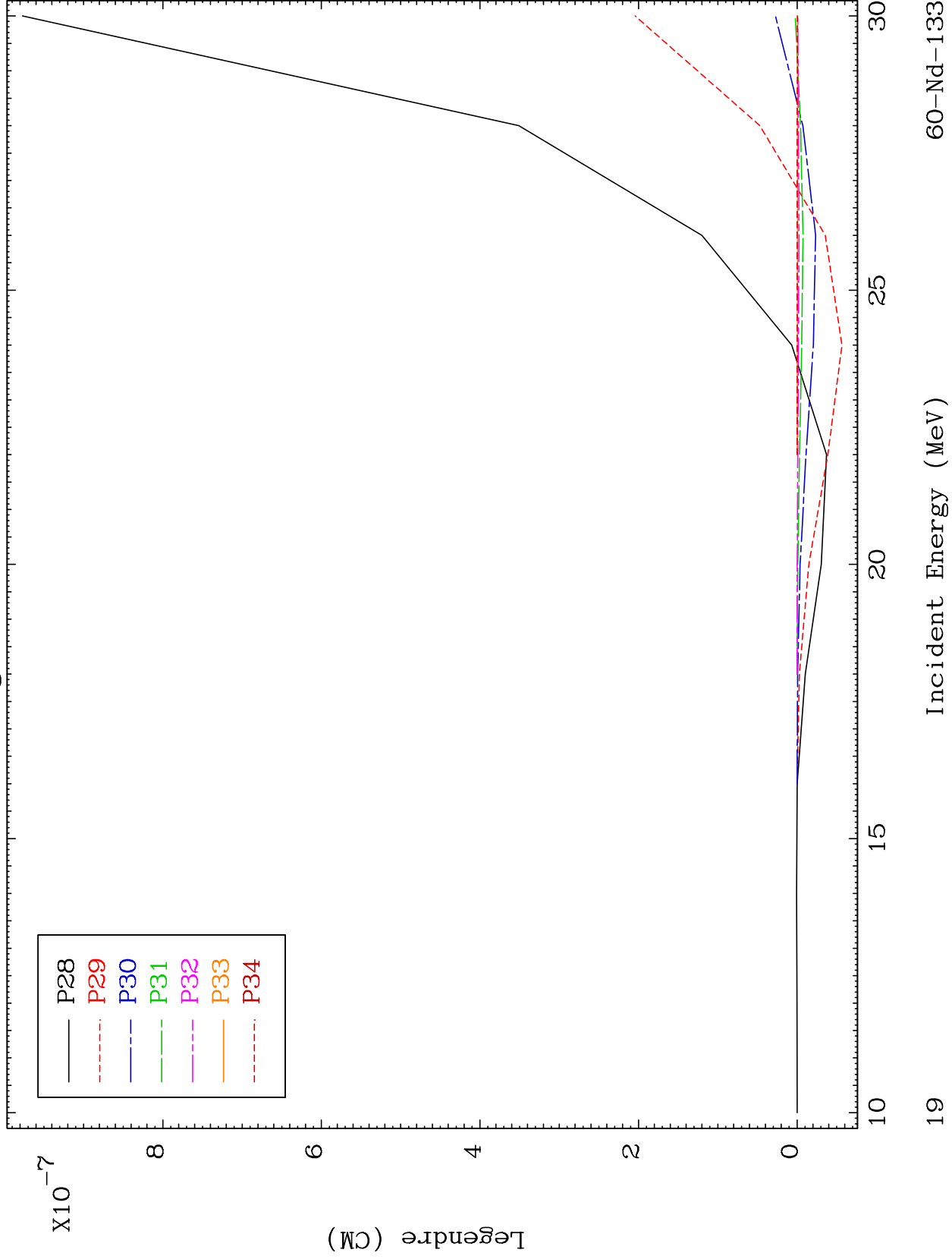
Incident Energy (MeV)

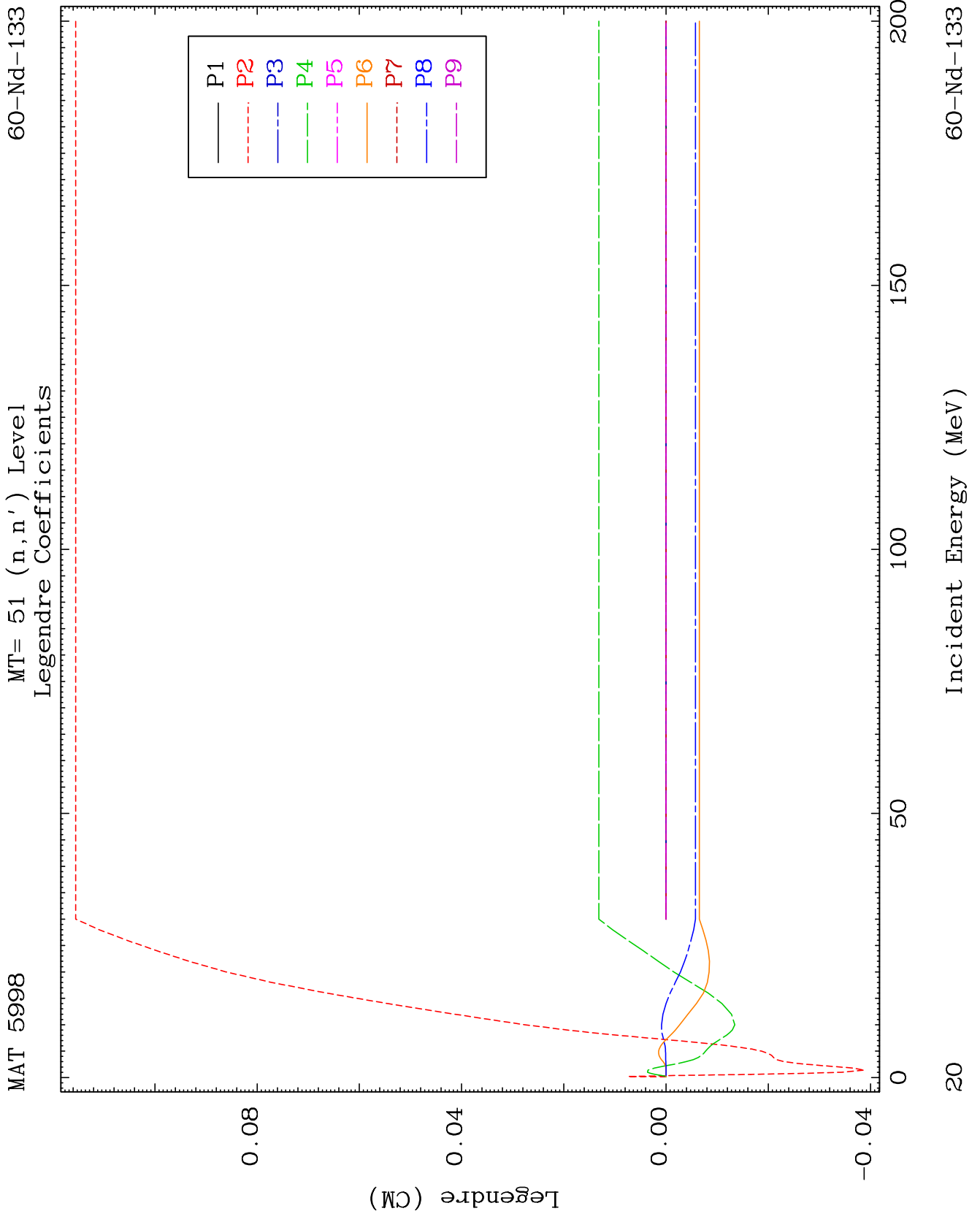
60-Nd-133

MAT 5998

Elastic  
Legendre Coefficients

60-Nd-133

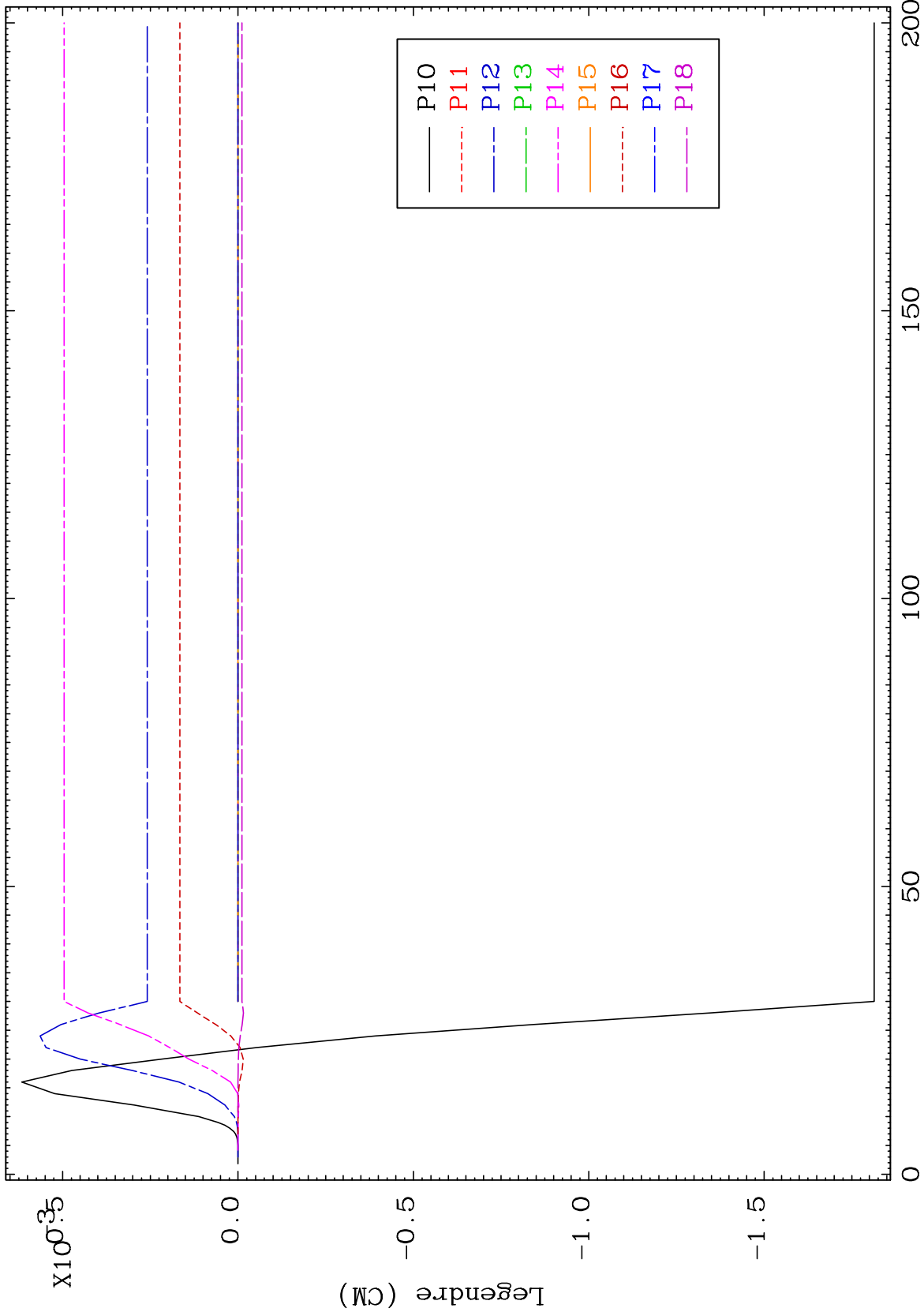




MAT 5998

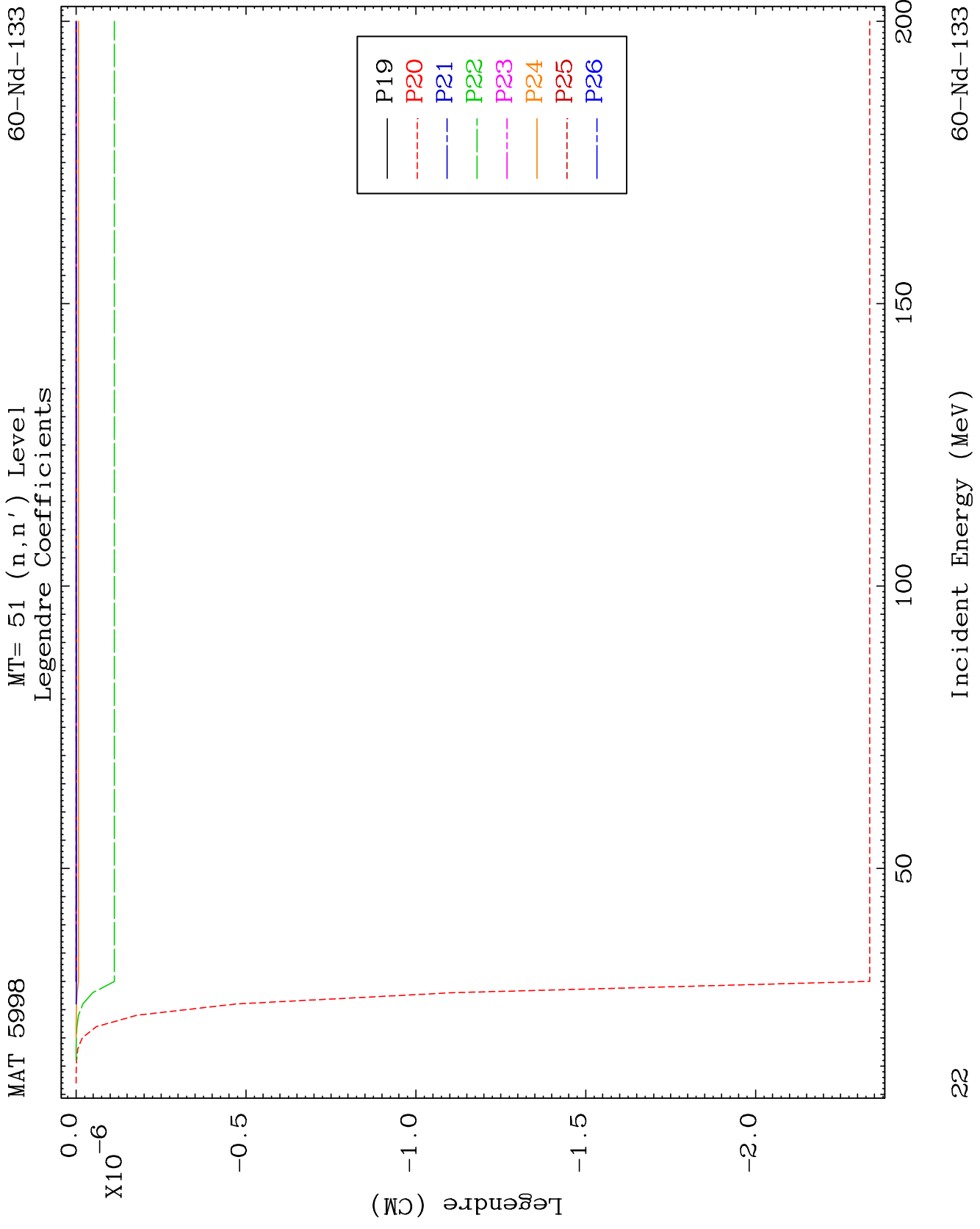
MT= 51 (n,n') Level  
Legendre Coefficients

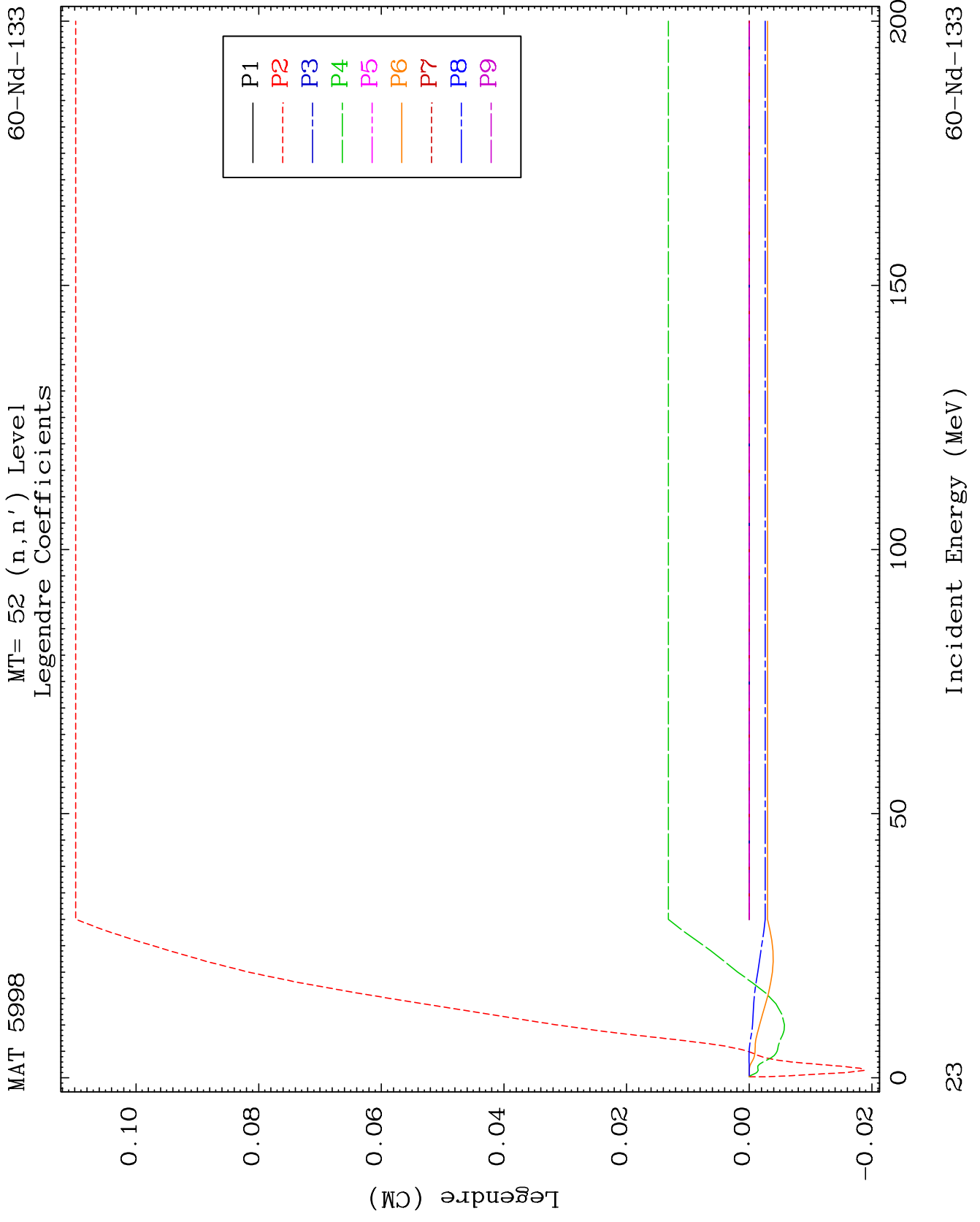
60-Nd-133



21

60-Nd-133



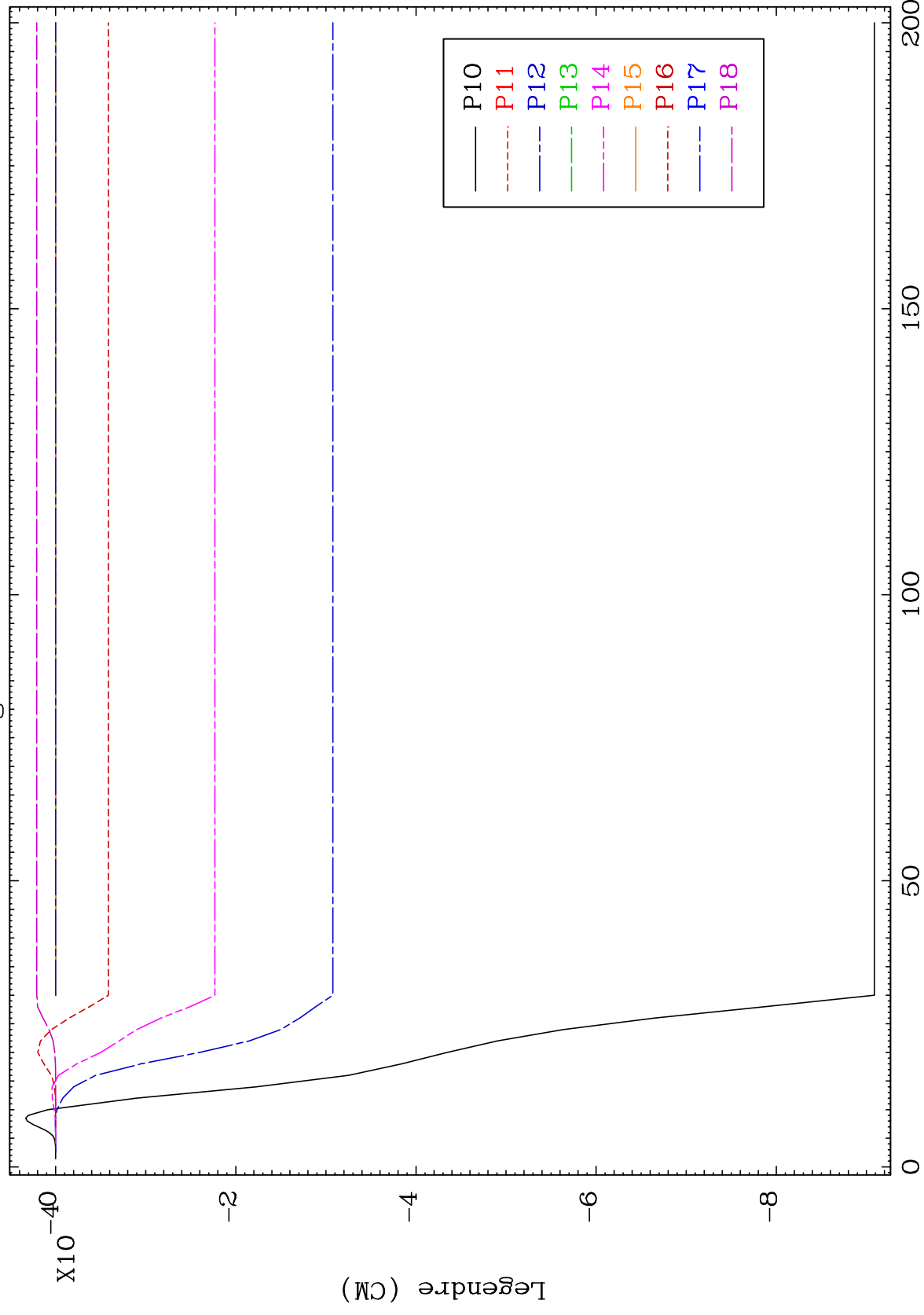




MAT 5998

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

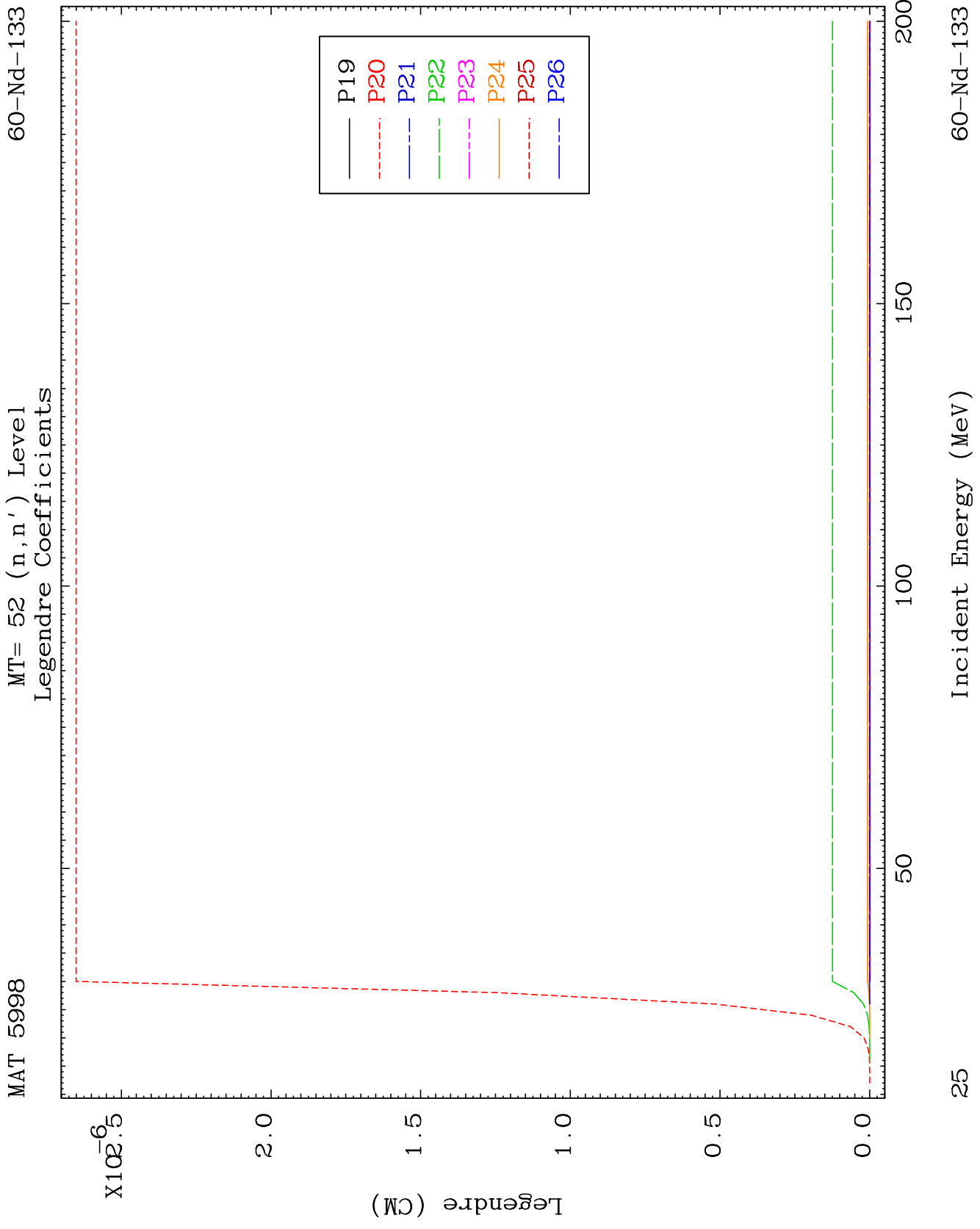
60-Nd-133



24

Incident Energy (MeV)

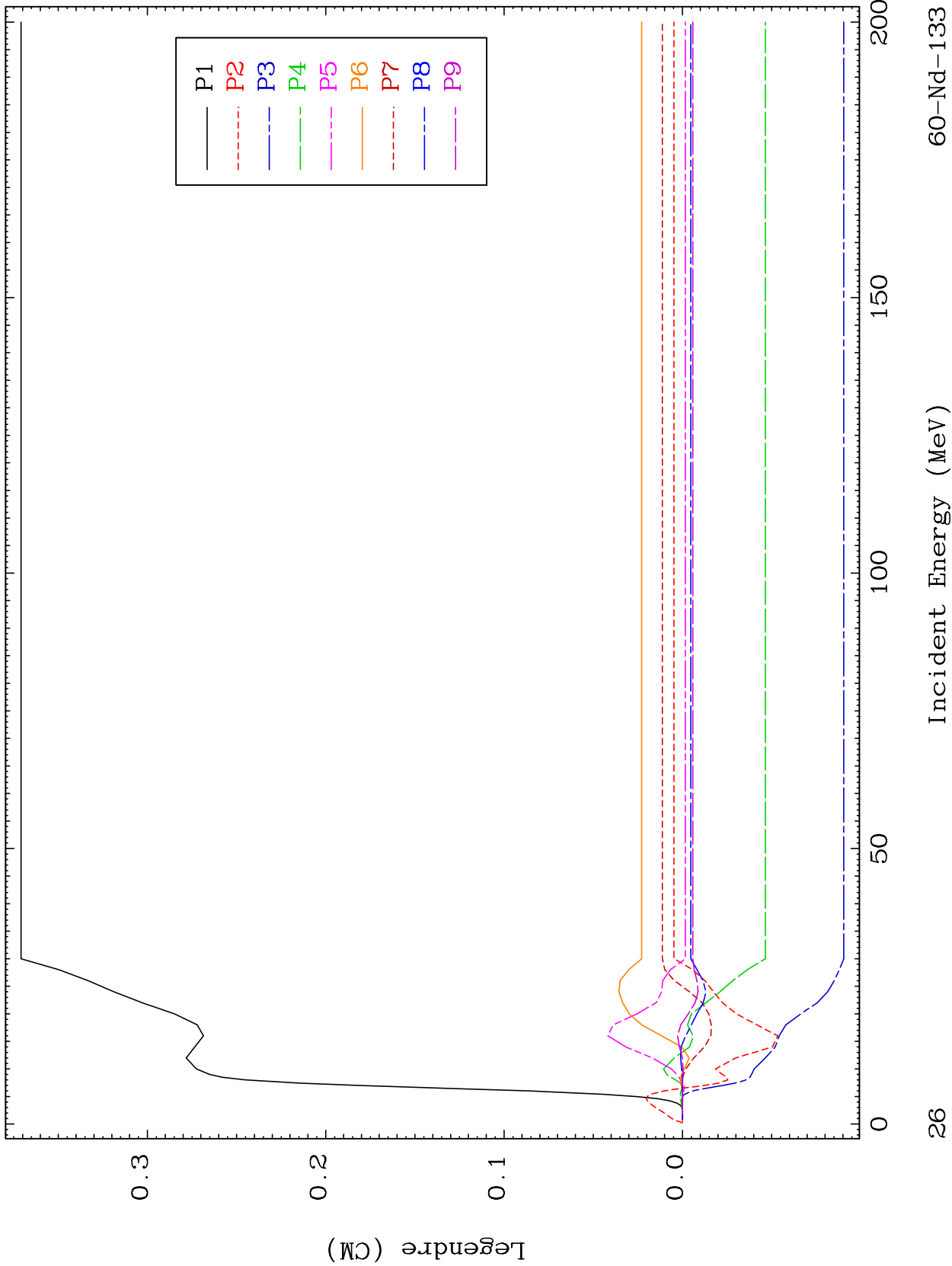
60-Nd-133



MAT 5998

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

60-Nd-133



60-Nd-133

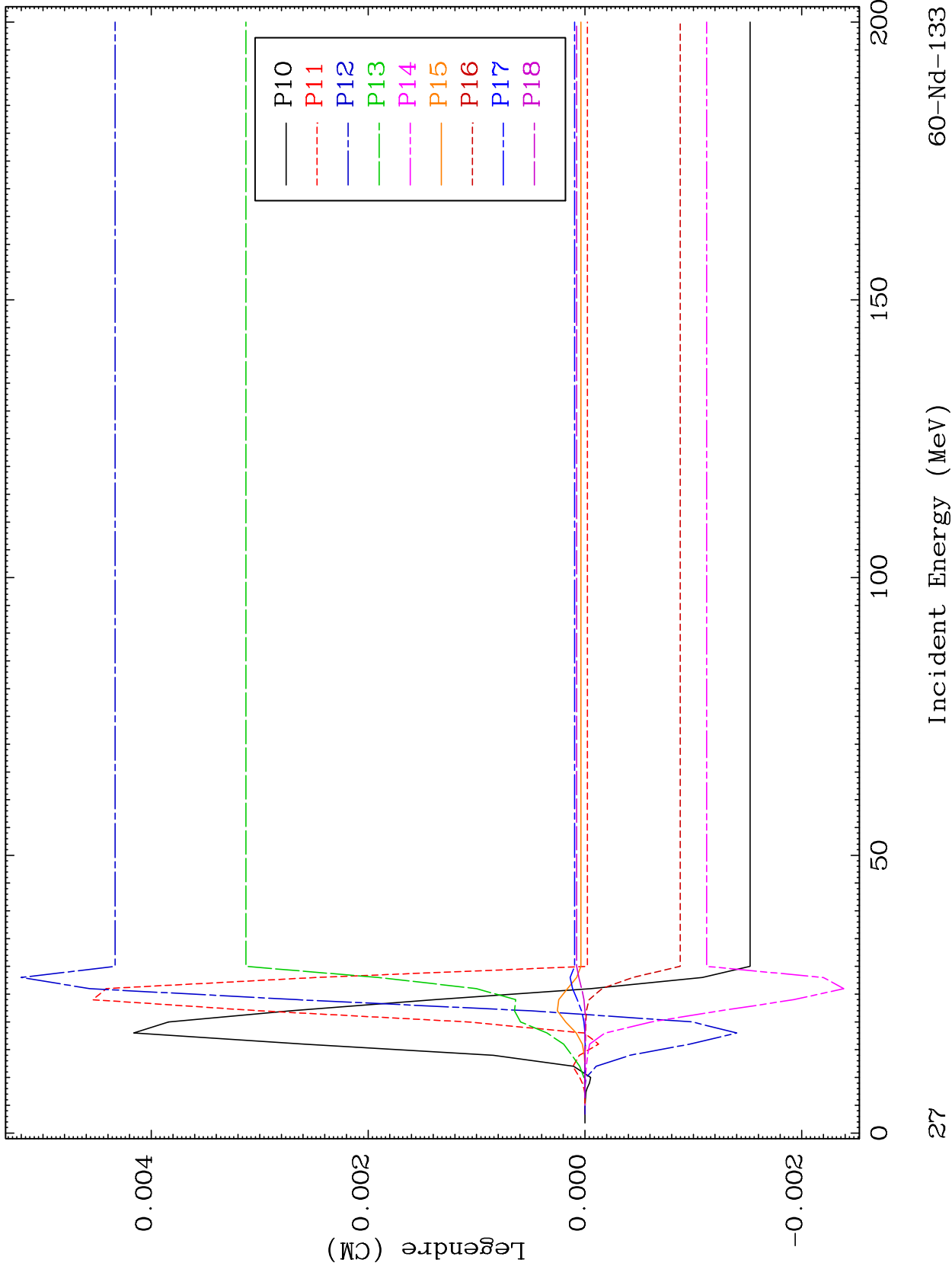
Incident Energy (MeV)

26

MAT 5998

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

60-Nd-133



27

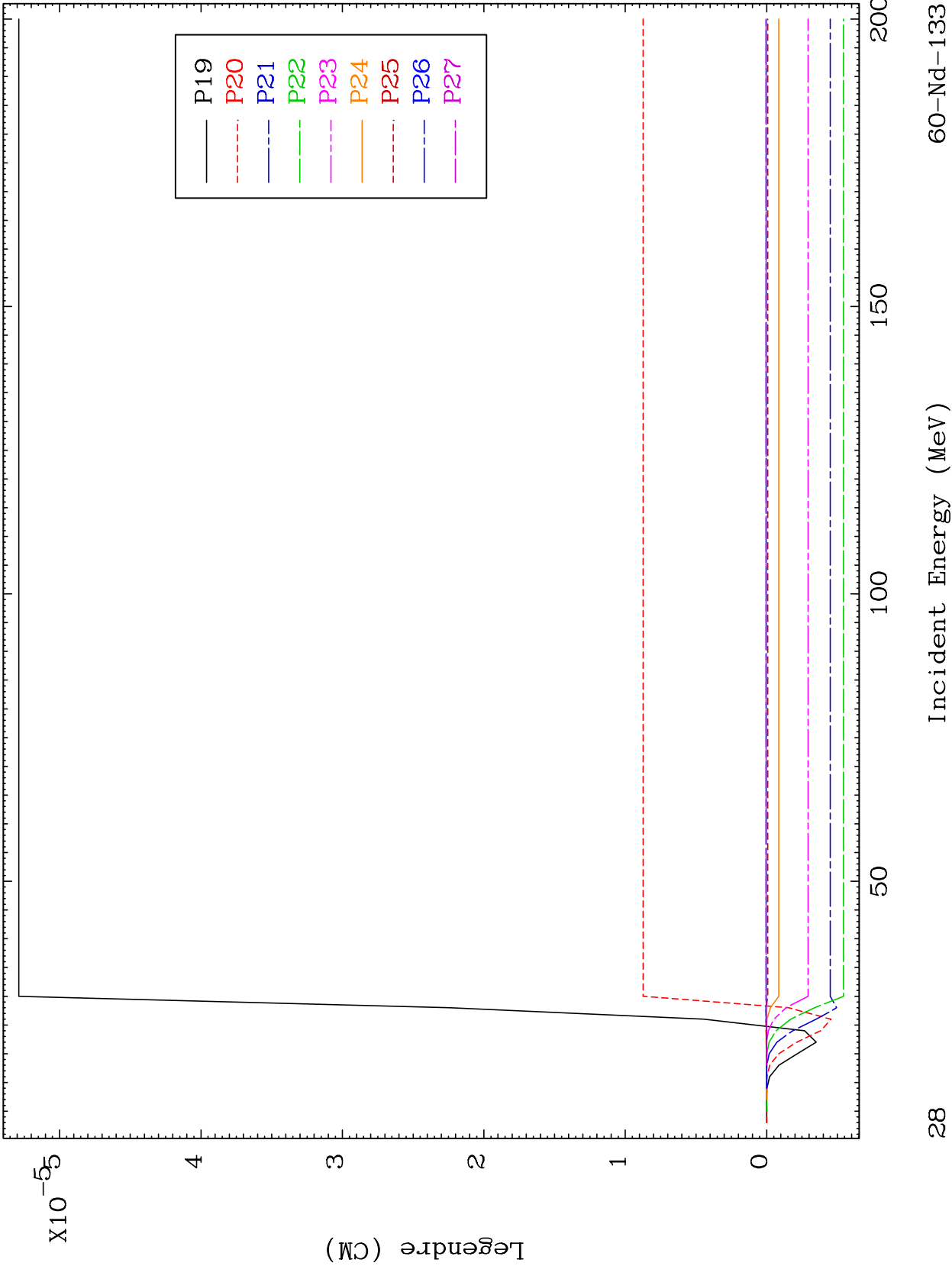
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133



28

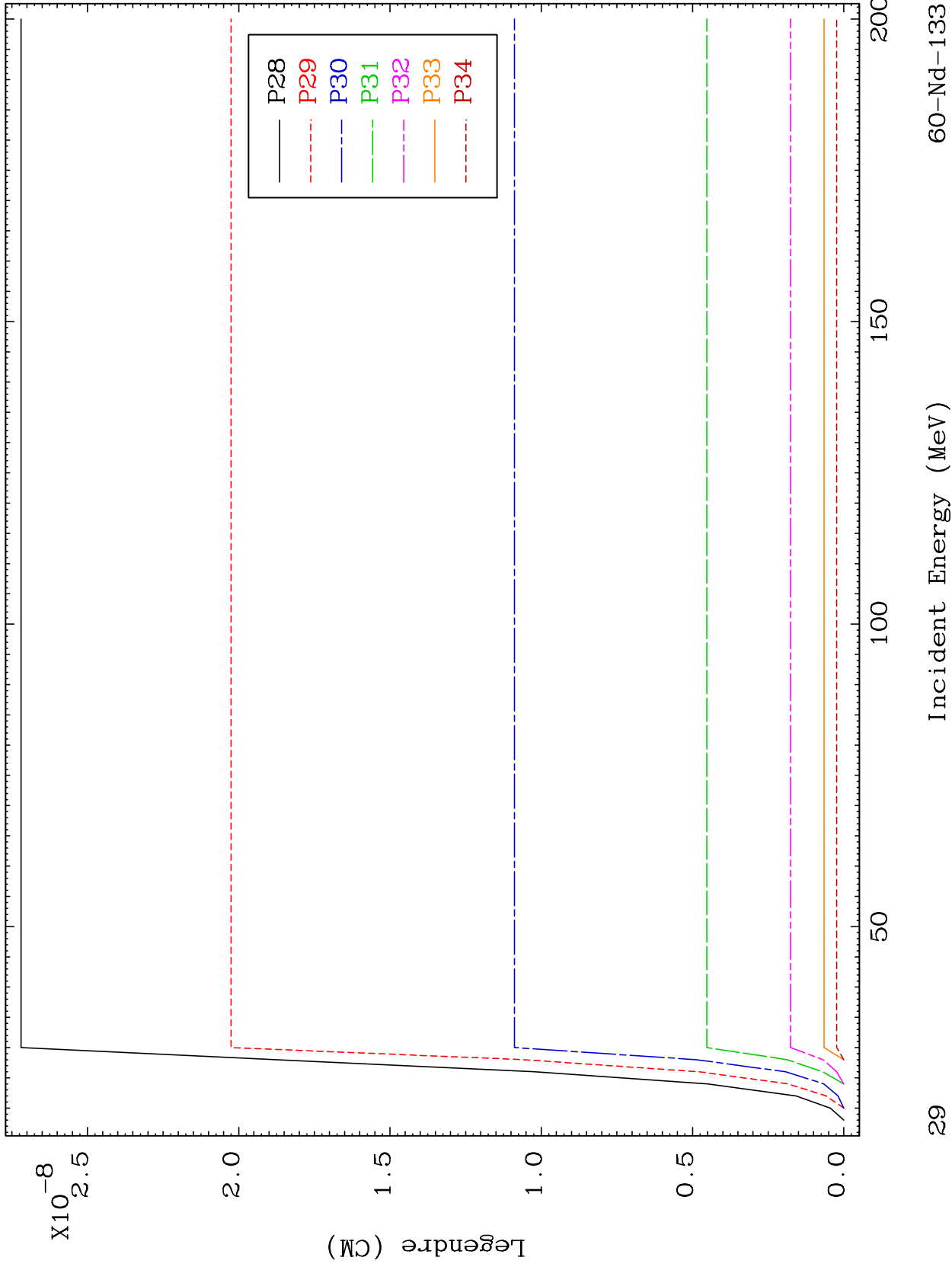
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133

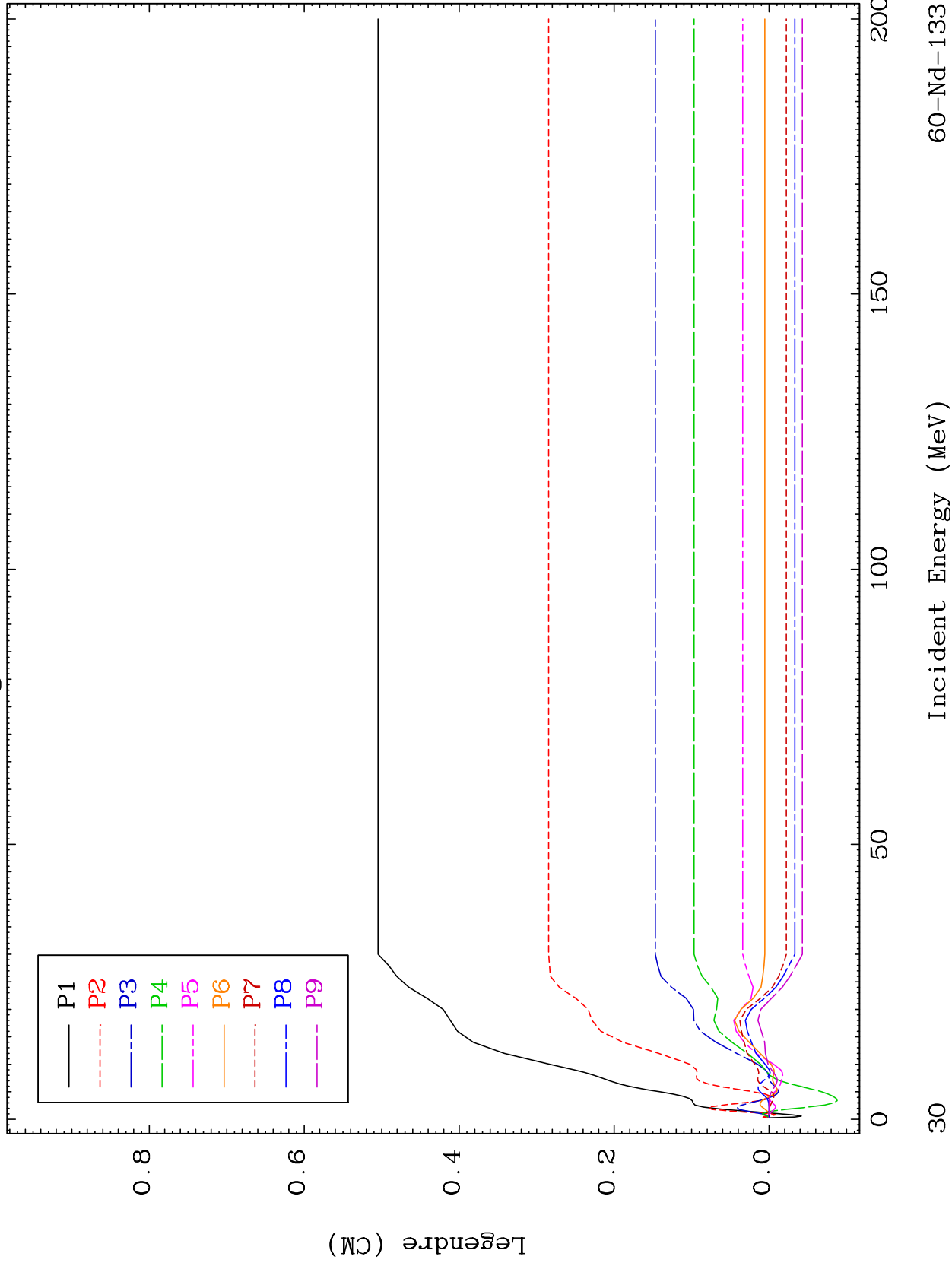


29

MAT 5998

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

60-Nd-133



60-Nd-133

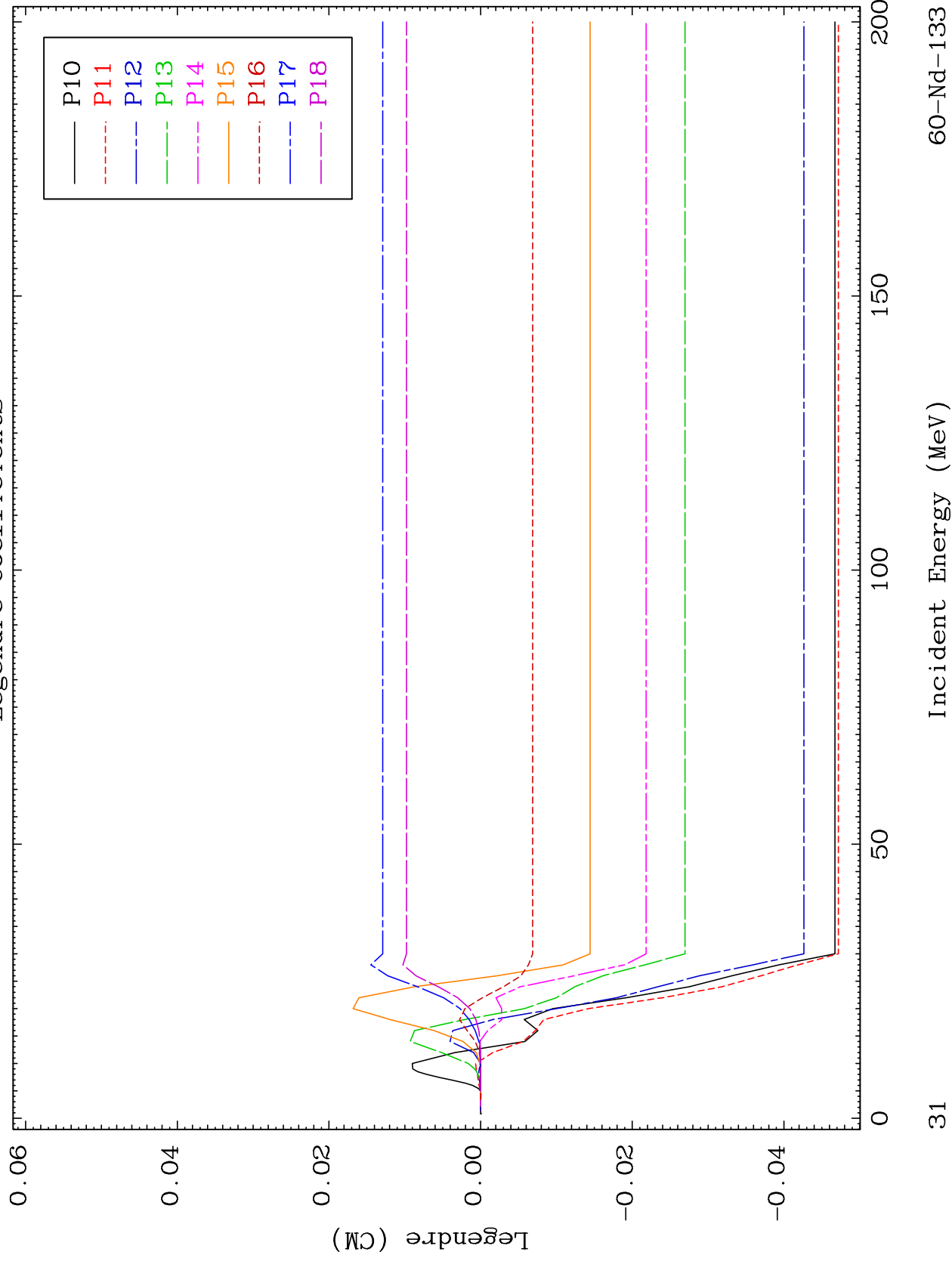
Incident Energy (MeV)

30

MAT 5998

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

60-Nd-133

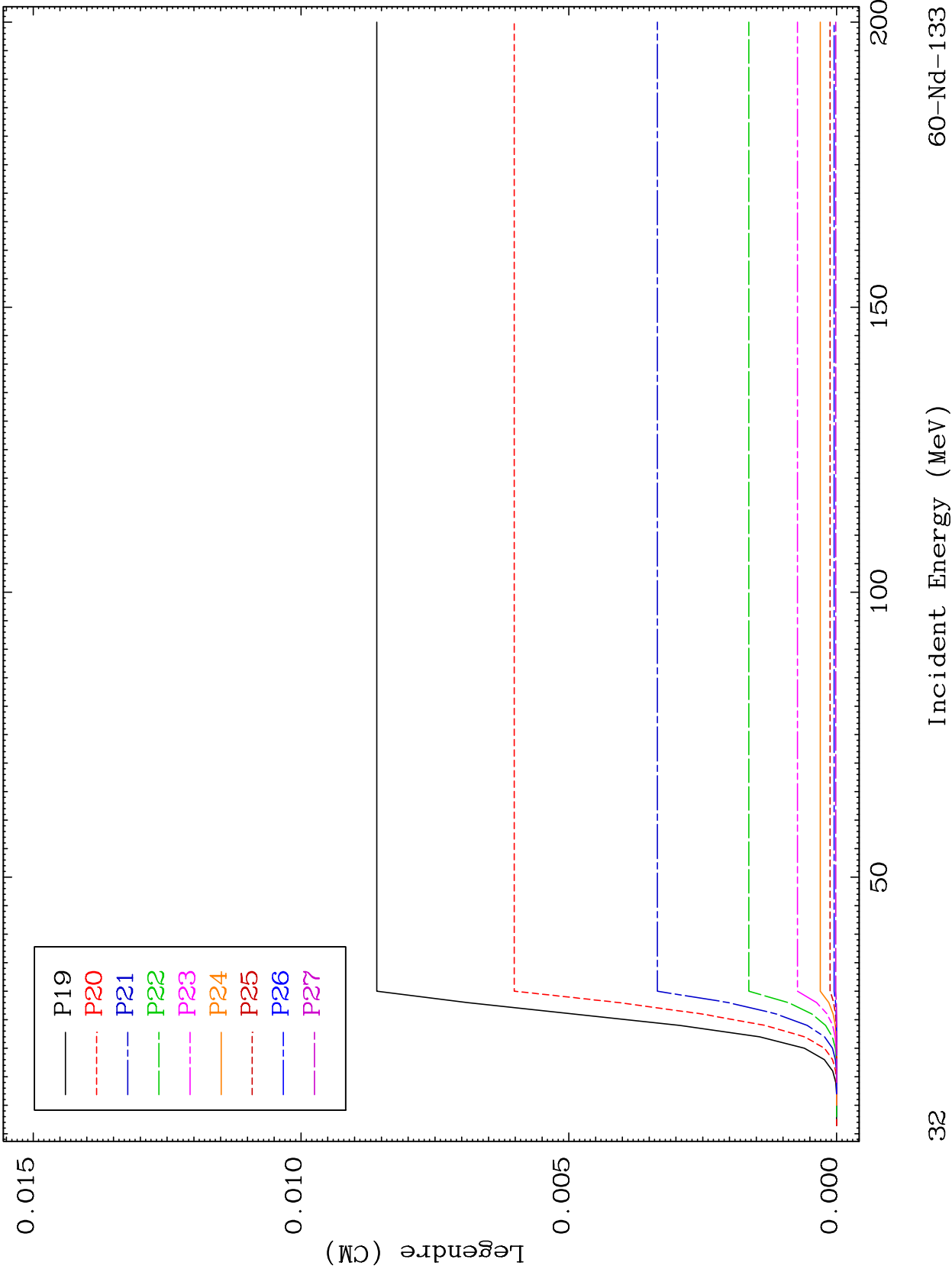


31

Incident Energy (MeV)

60-Nd-133

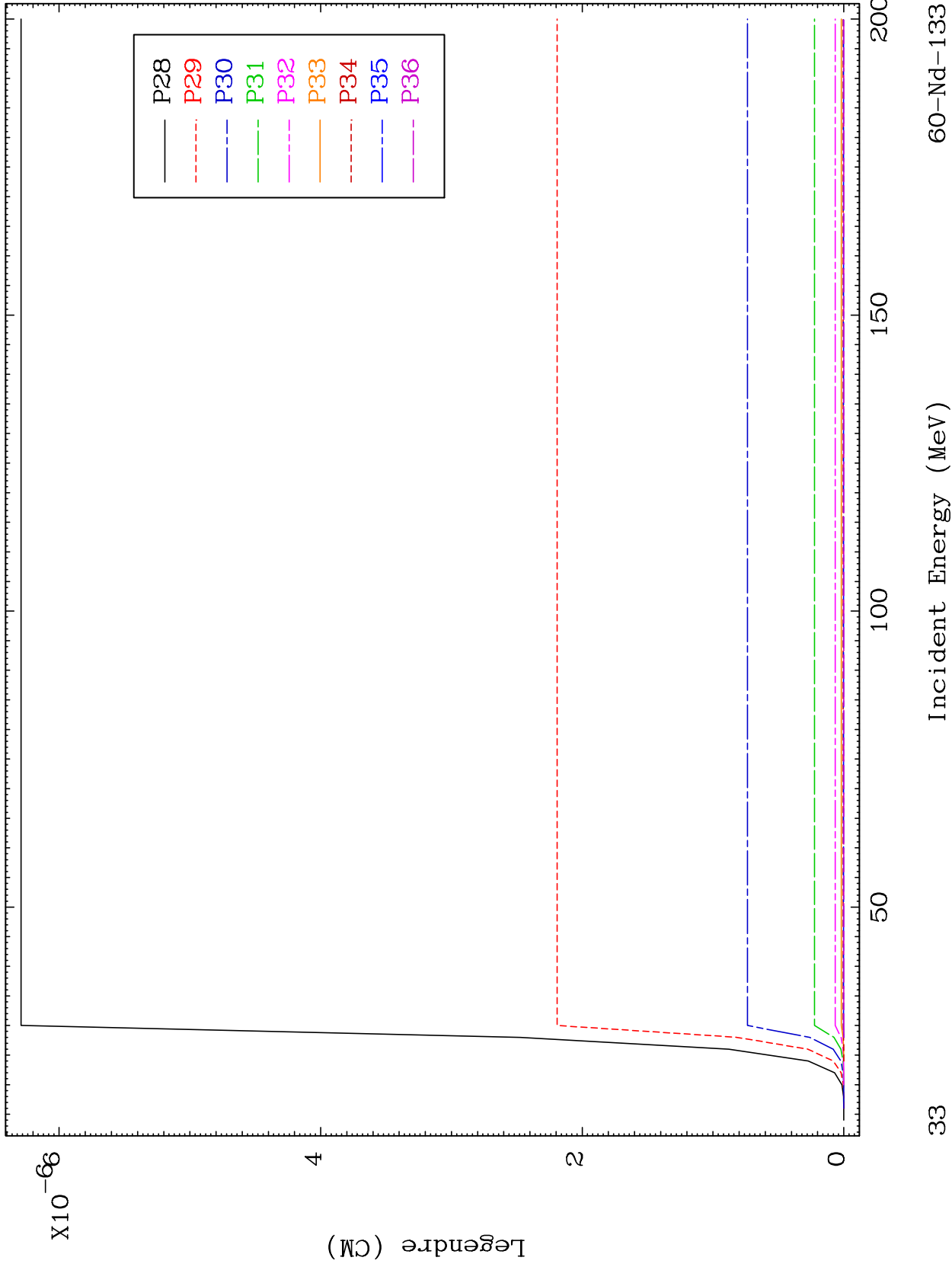




MAT 5998

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

60-Nd-133



33

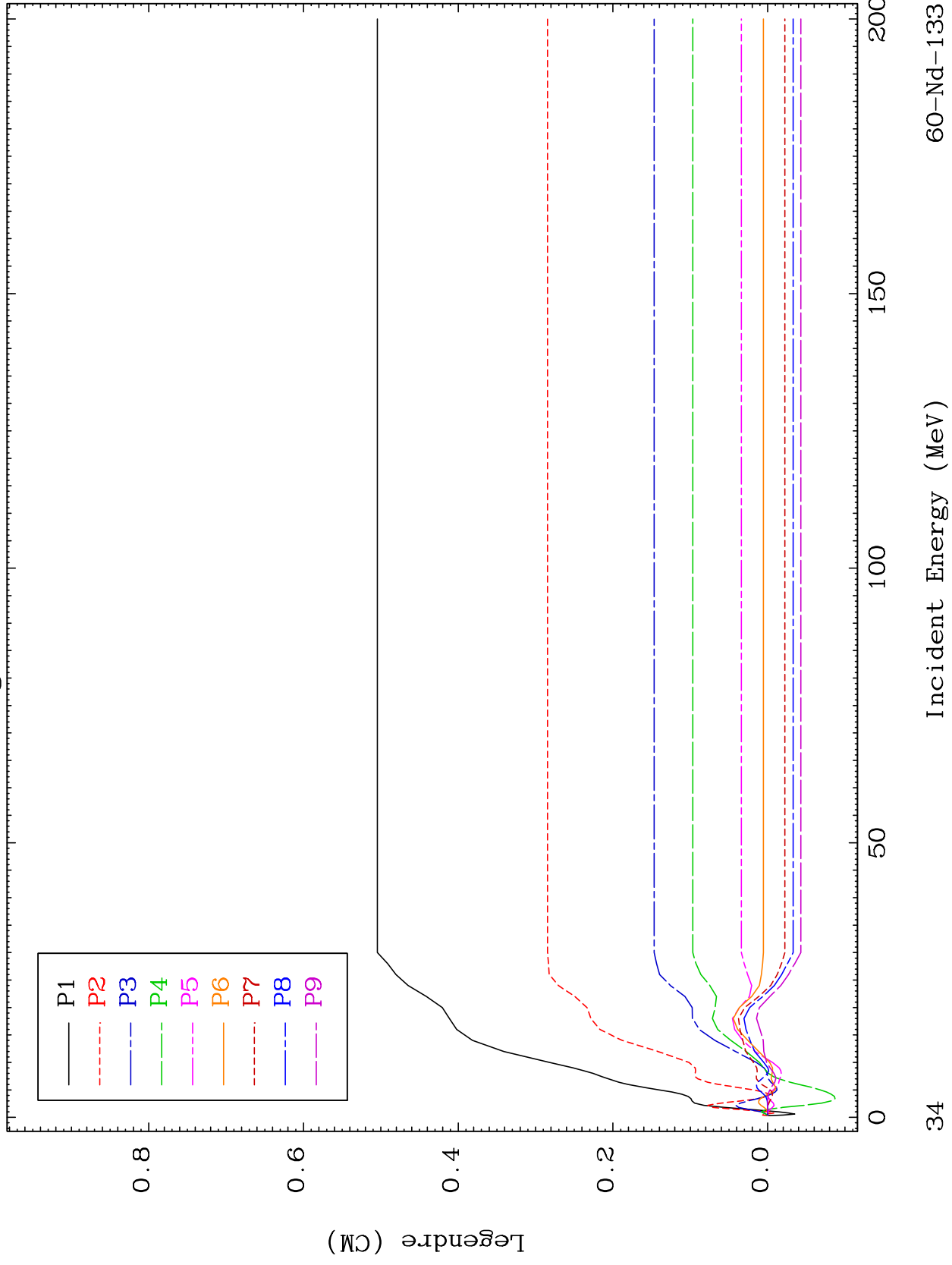
Incident Energy (MeV)

60-Nd-133

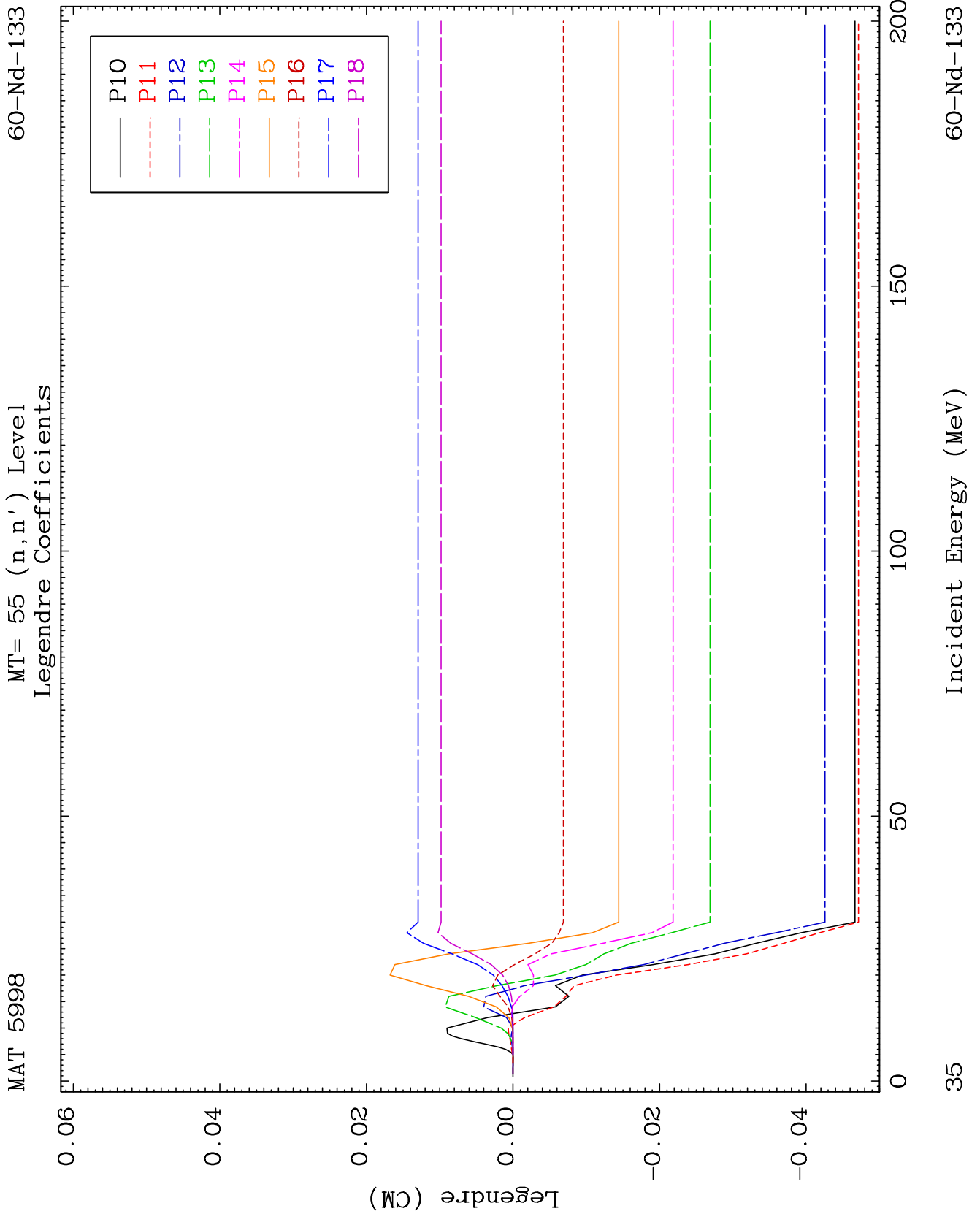
MAT 5998

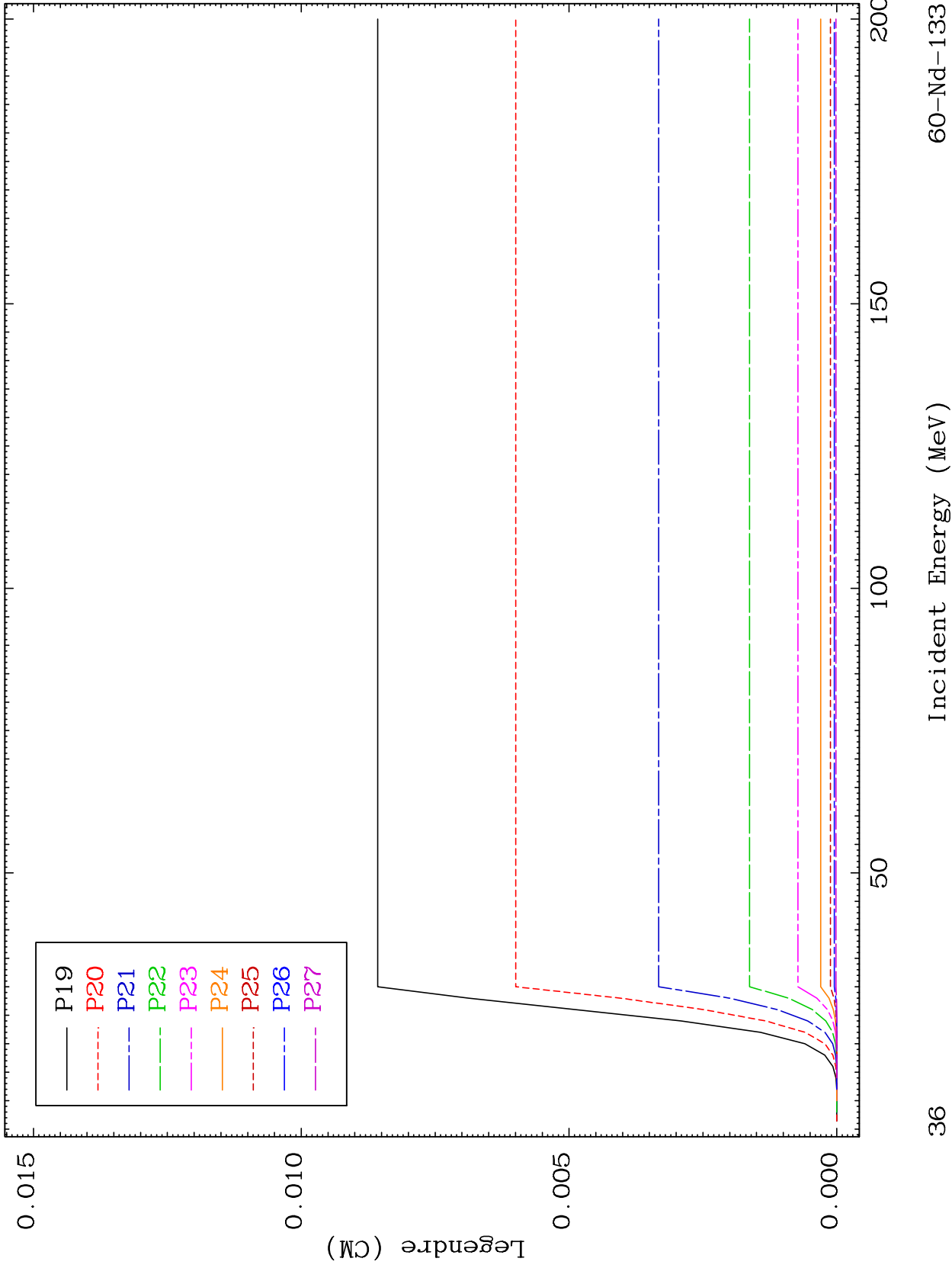
MT= 55 (n,n') Level  
Legendre Coefficients

60-Nd-133



34

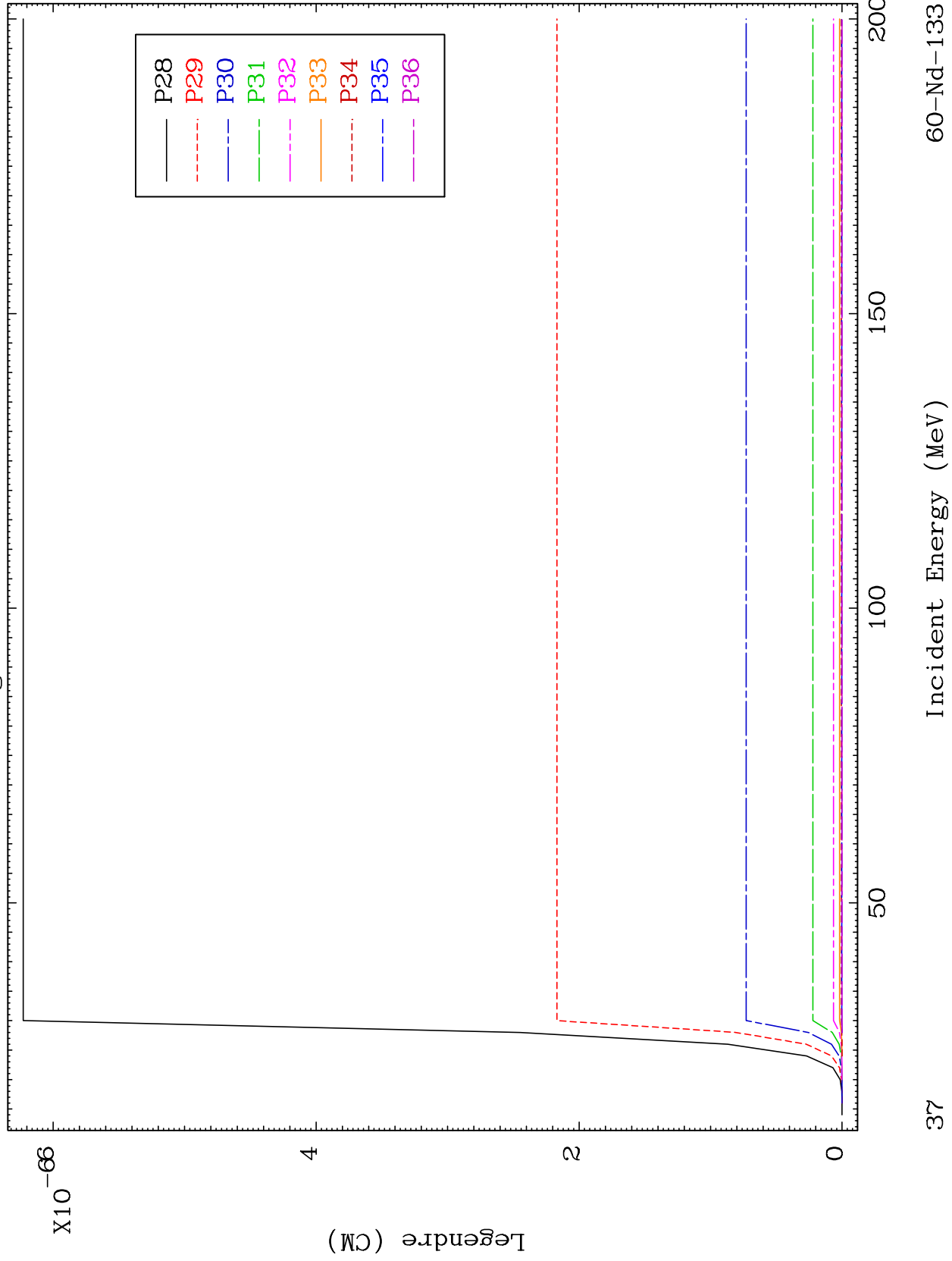




MAT 5998

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

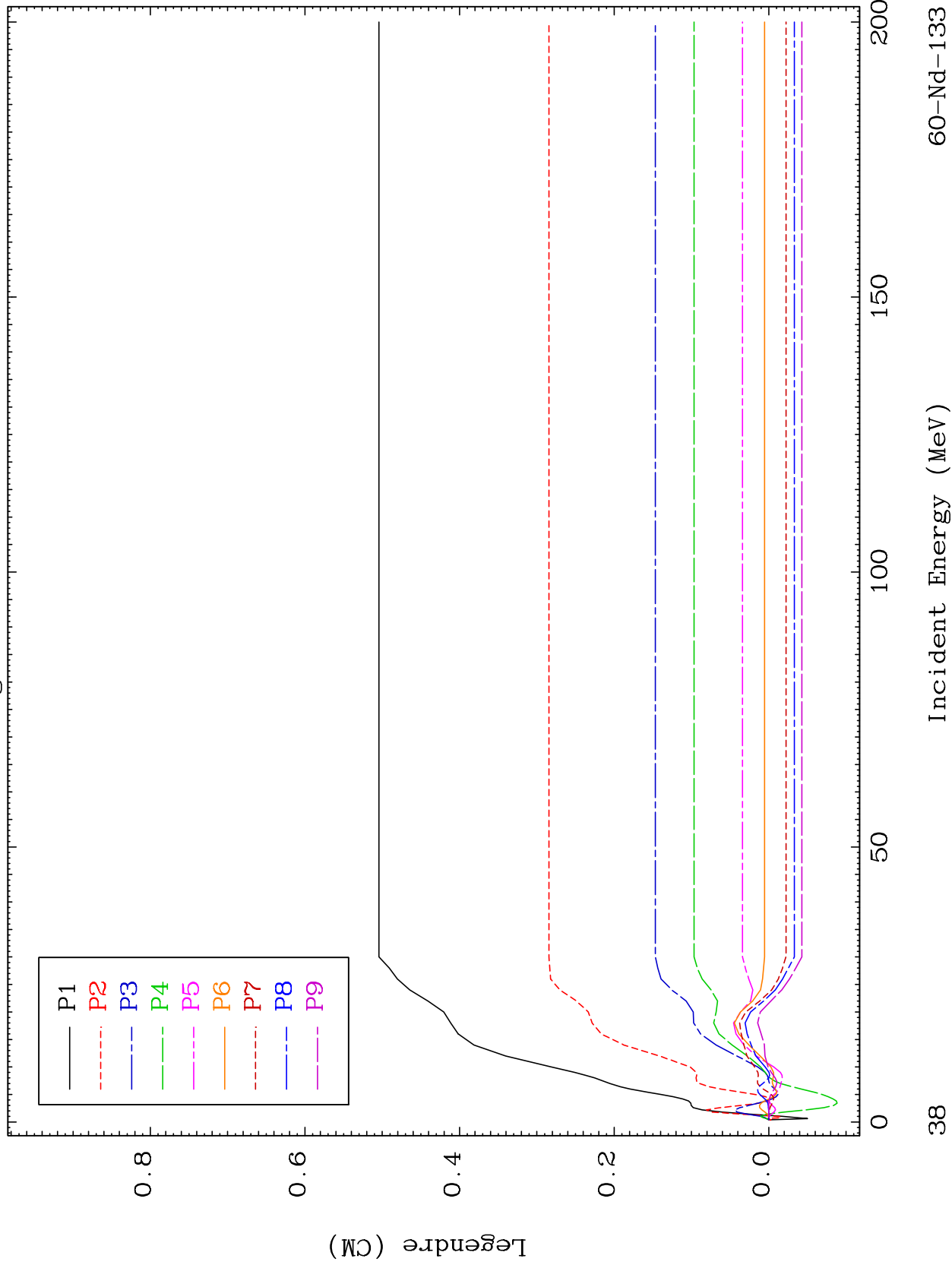
60-Nd-133



MAT 5998

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

60-Nd-133



60-Nd-133

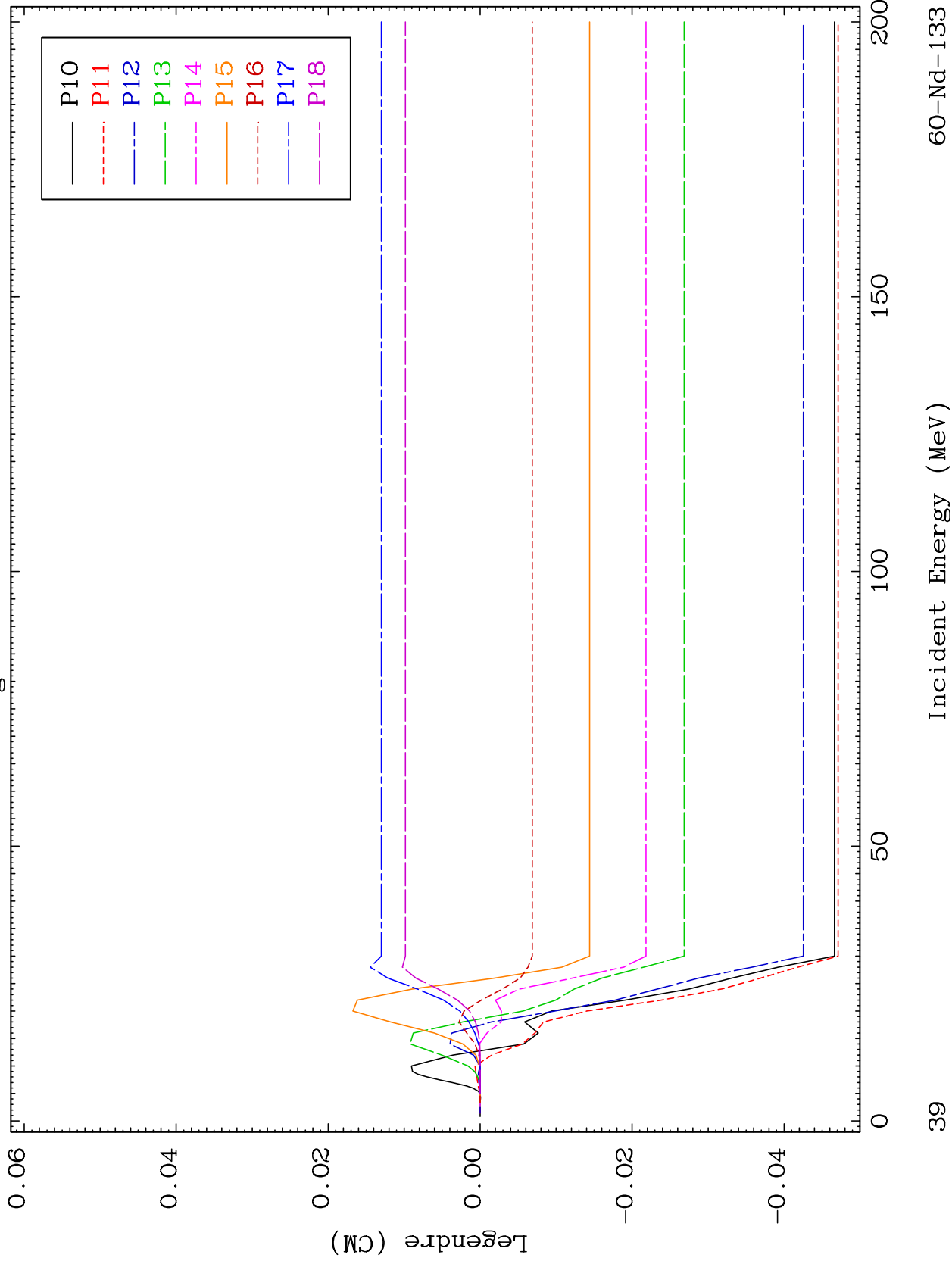
Incident Energy (MeV)

38

MAT 5998

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

60-Nd-133



60-Nd-133

Incident Energy (MeV)

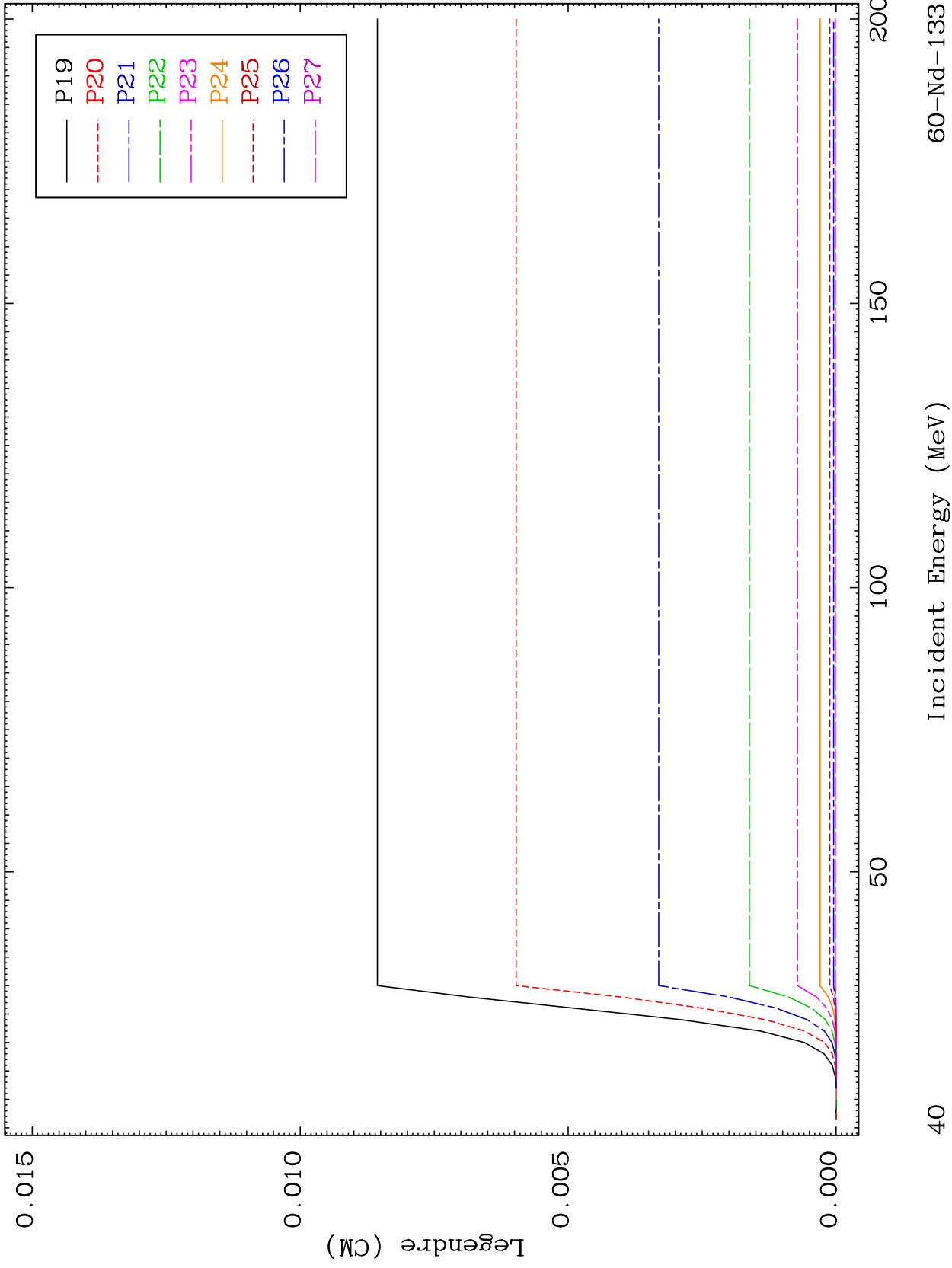
39



MAT 5998

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

60-Nd-133



60-Nd-133

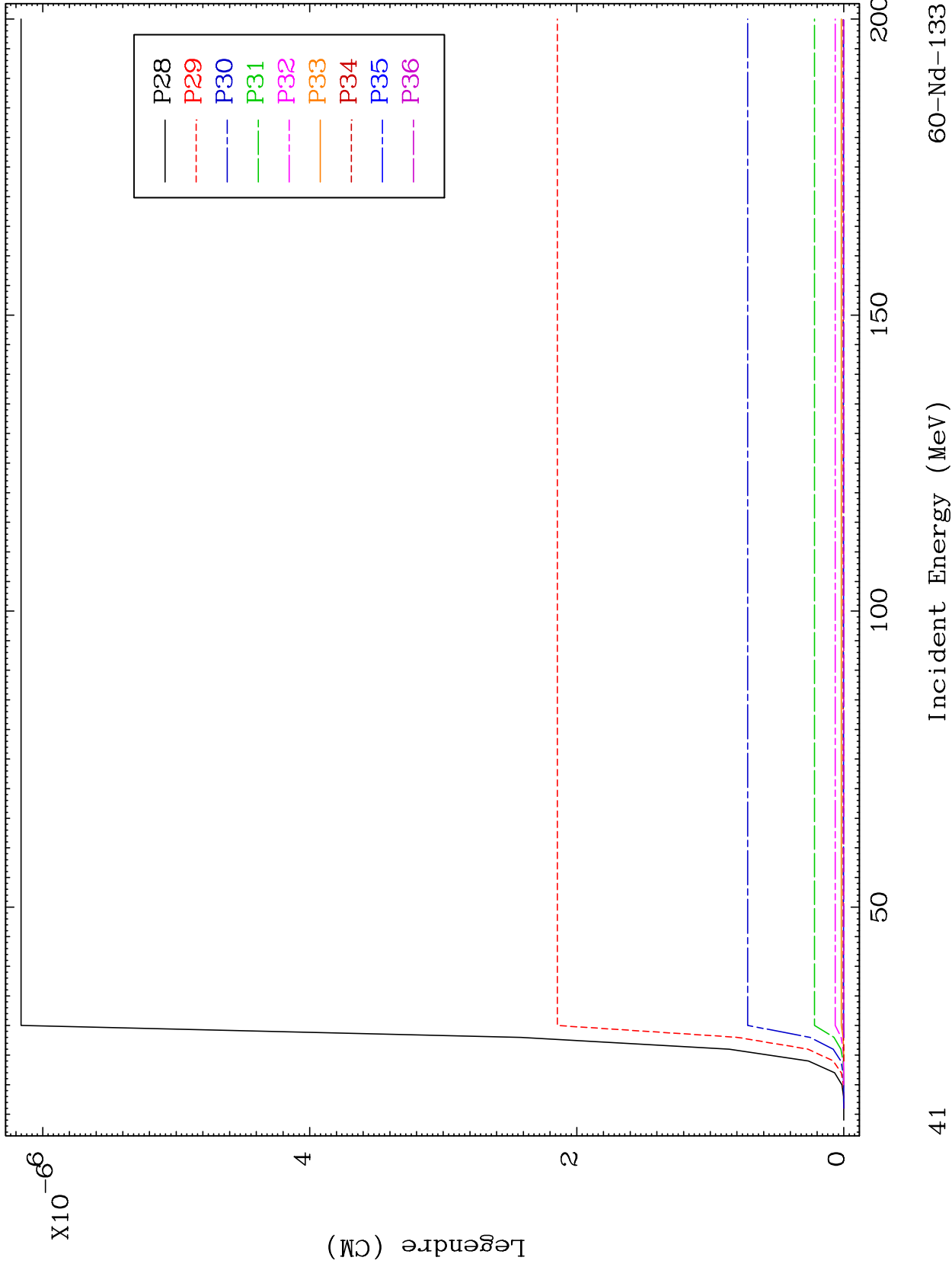
Incident Energy (MeV)

40

MAT 5998

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

60-Nd-133



41

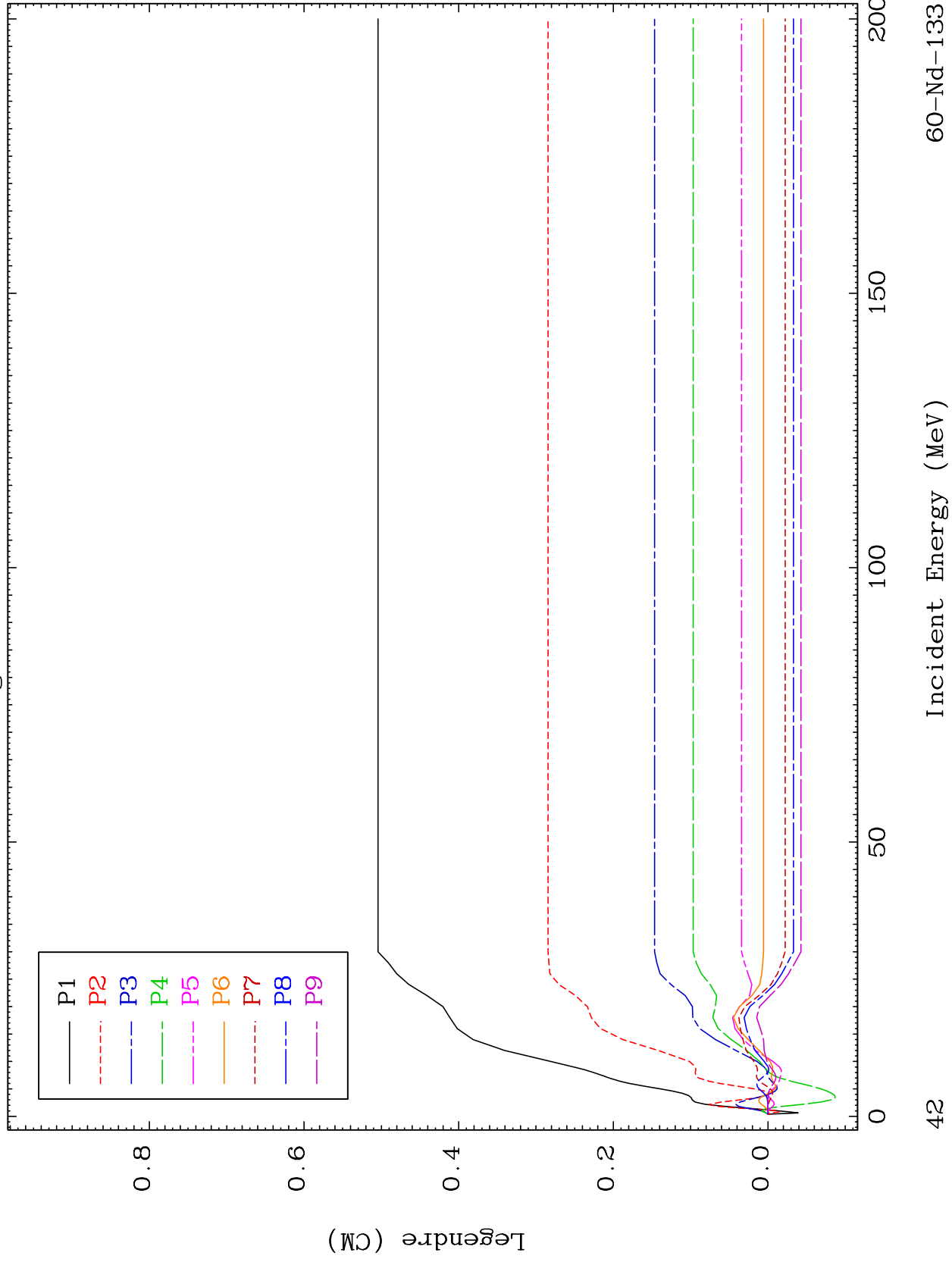
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133



60-Nd-133

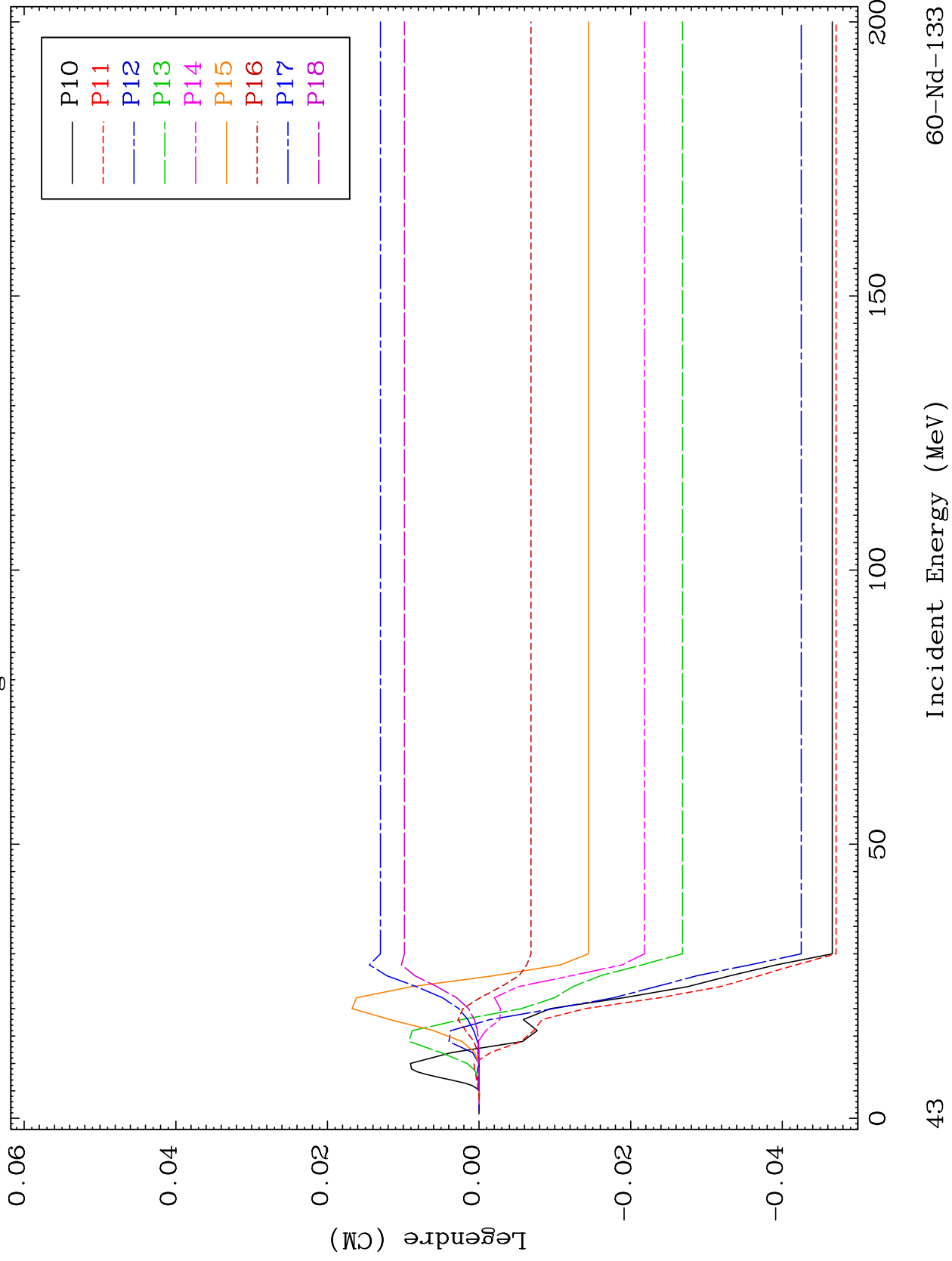
Incident Energy (MeV)

42

MAT 5998

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

60-Nd-133



60-Nd-133

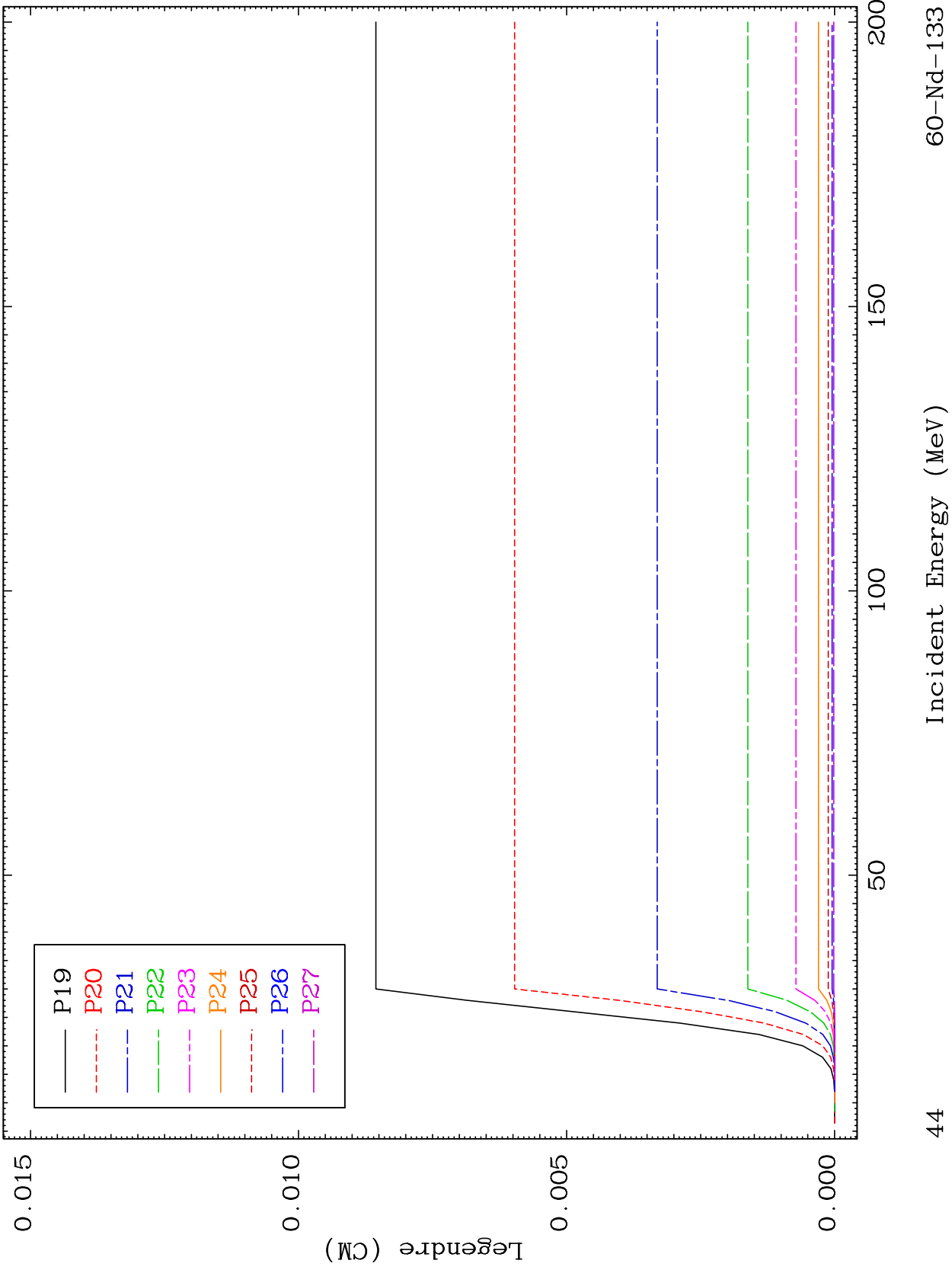
Incident Energy (MeV)

43

MAT 5998

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

60-Nd-133



44

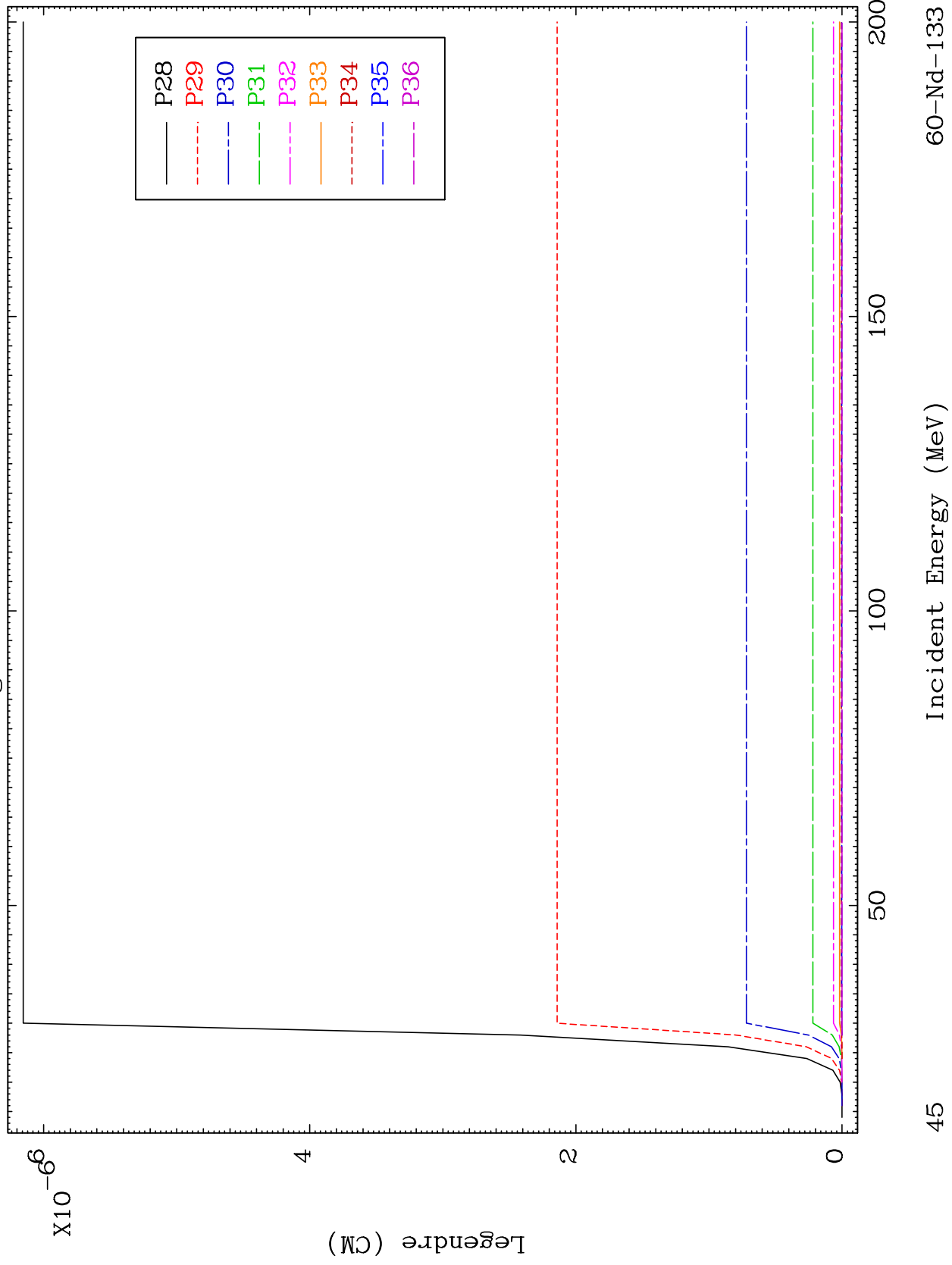
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133

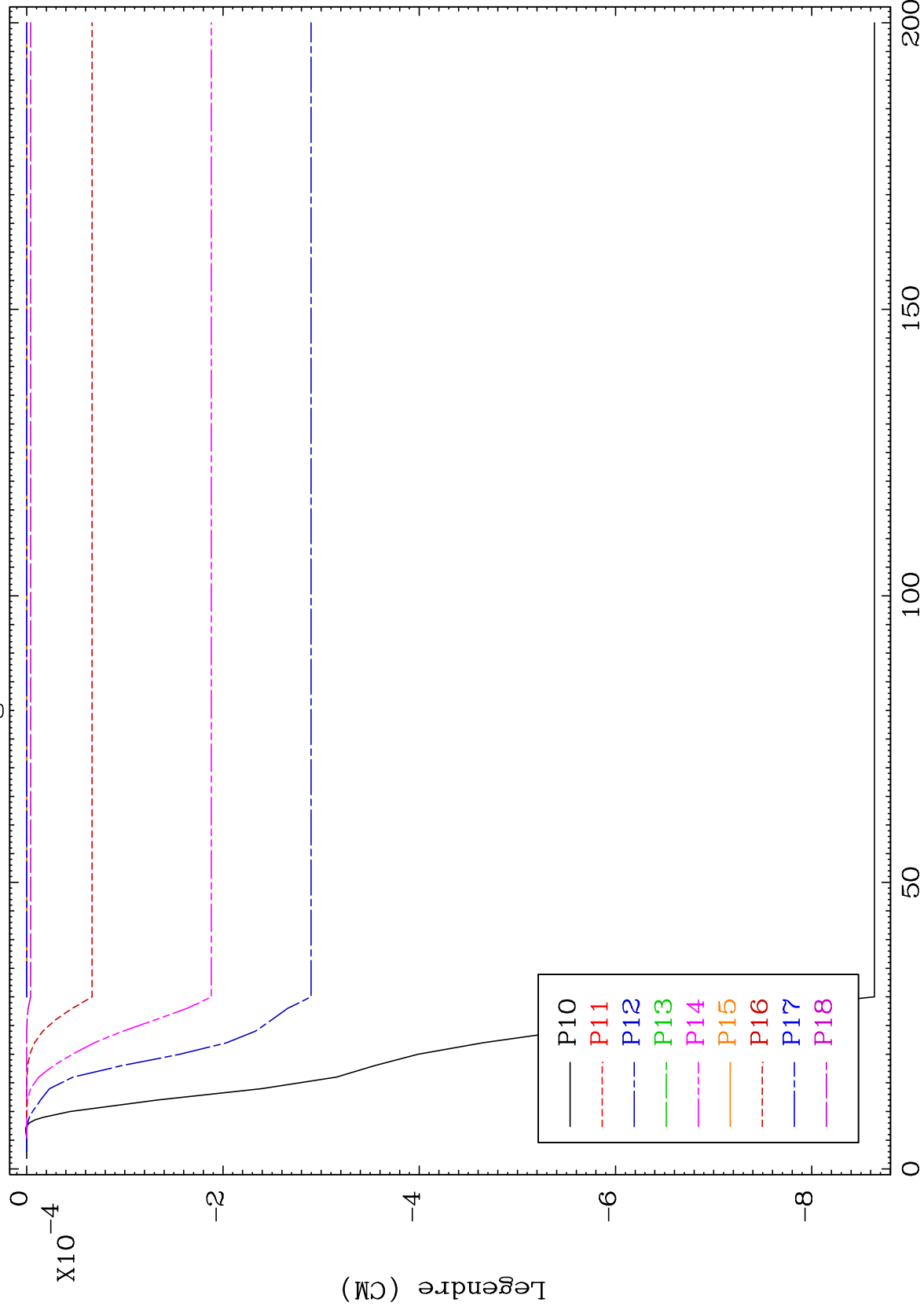




MAT 5998

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

60-Nd-133



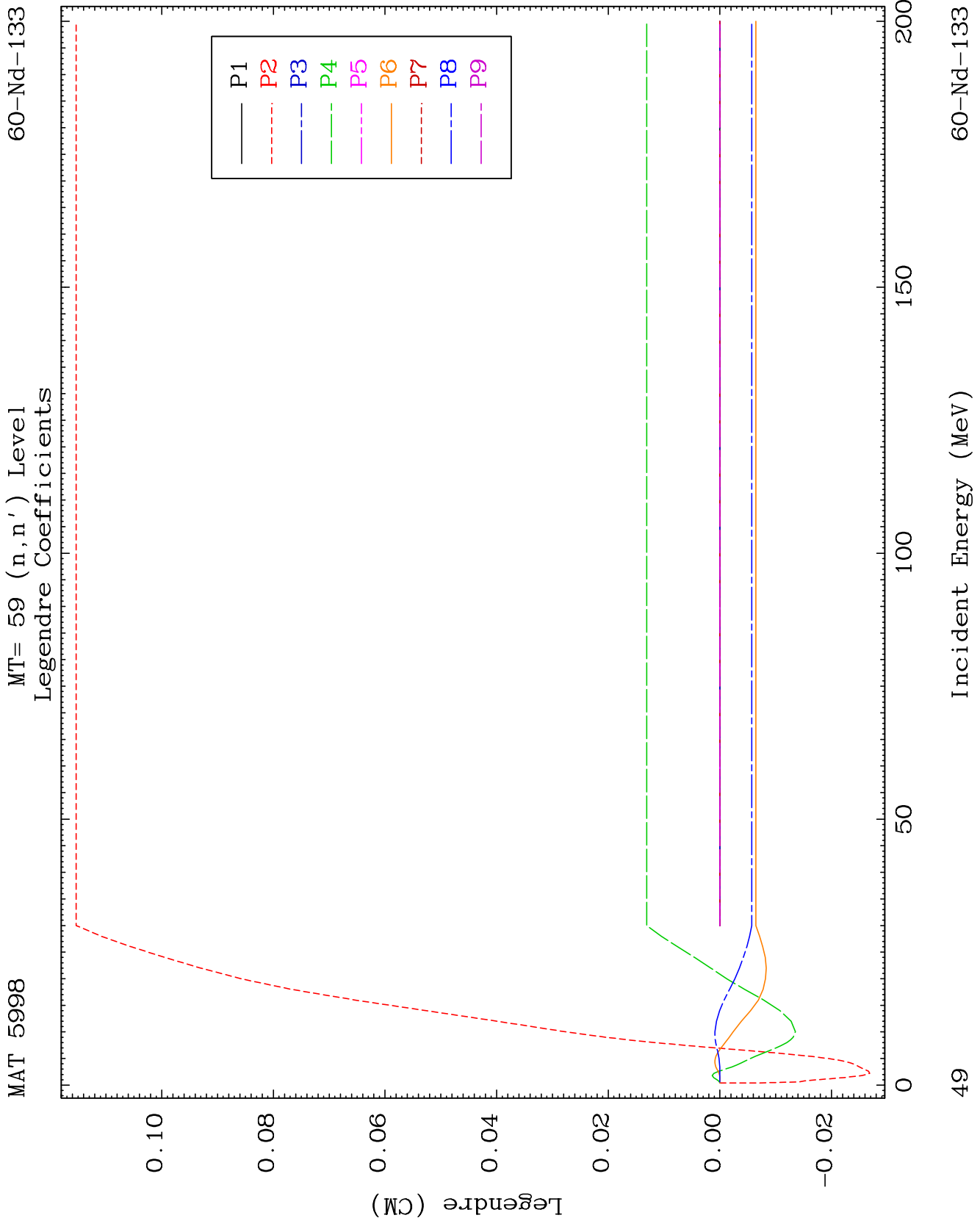
47

Incident Energy (MeV)

60-Nd-133



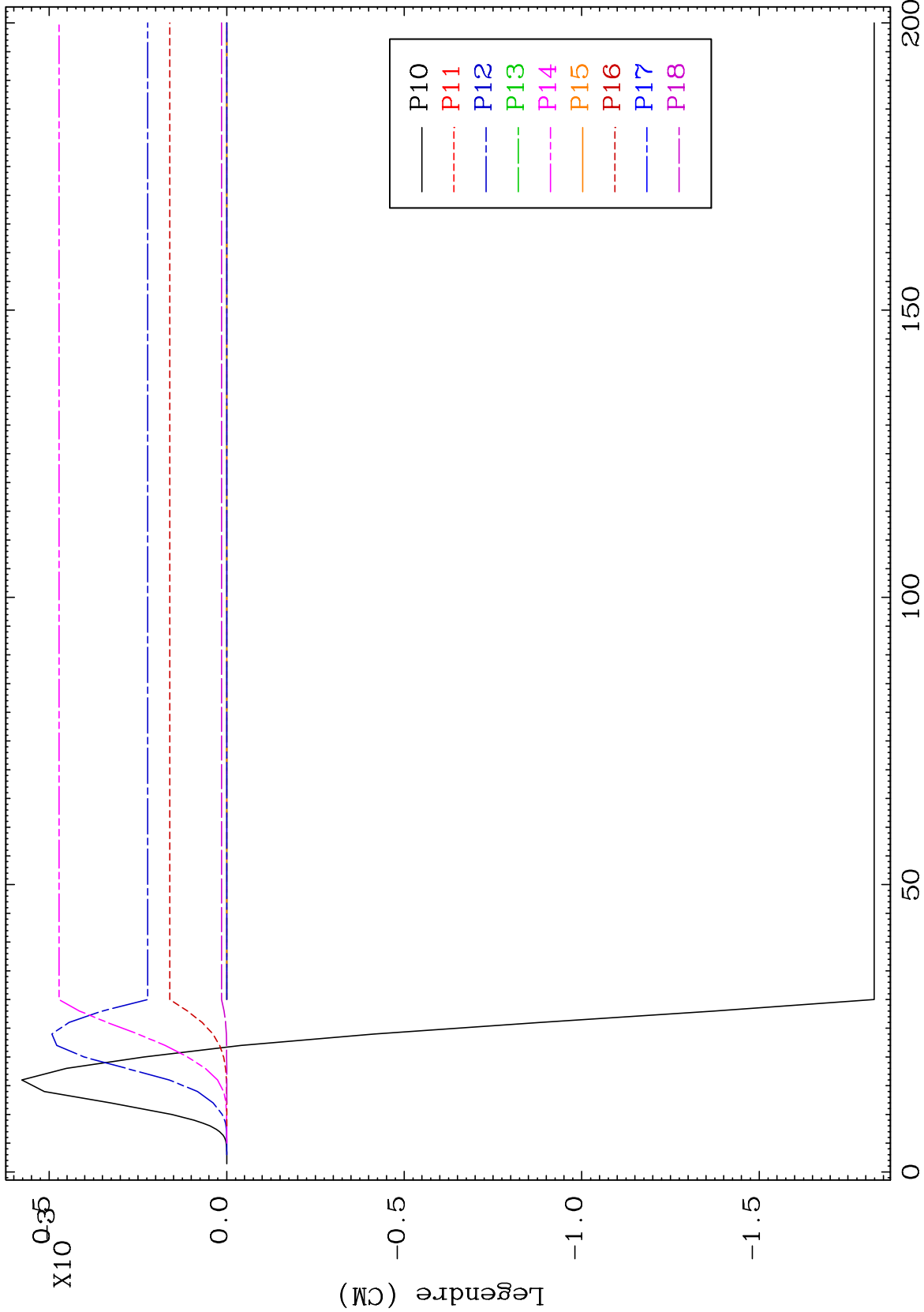




MAT 5998

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

60-Nd-133



60-Nd-133

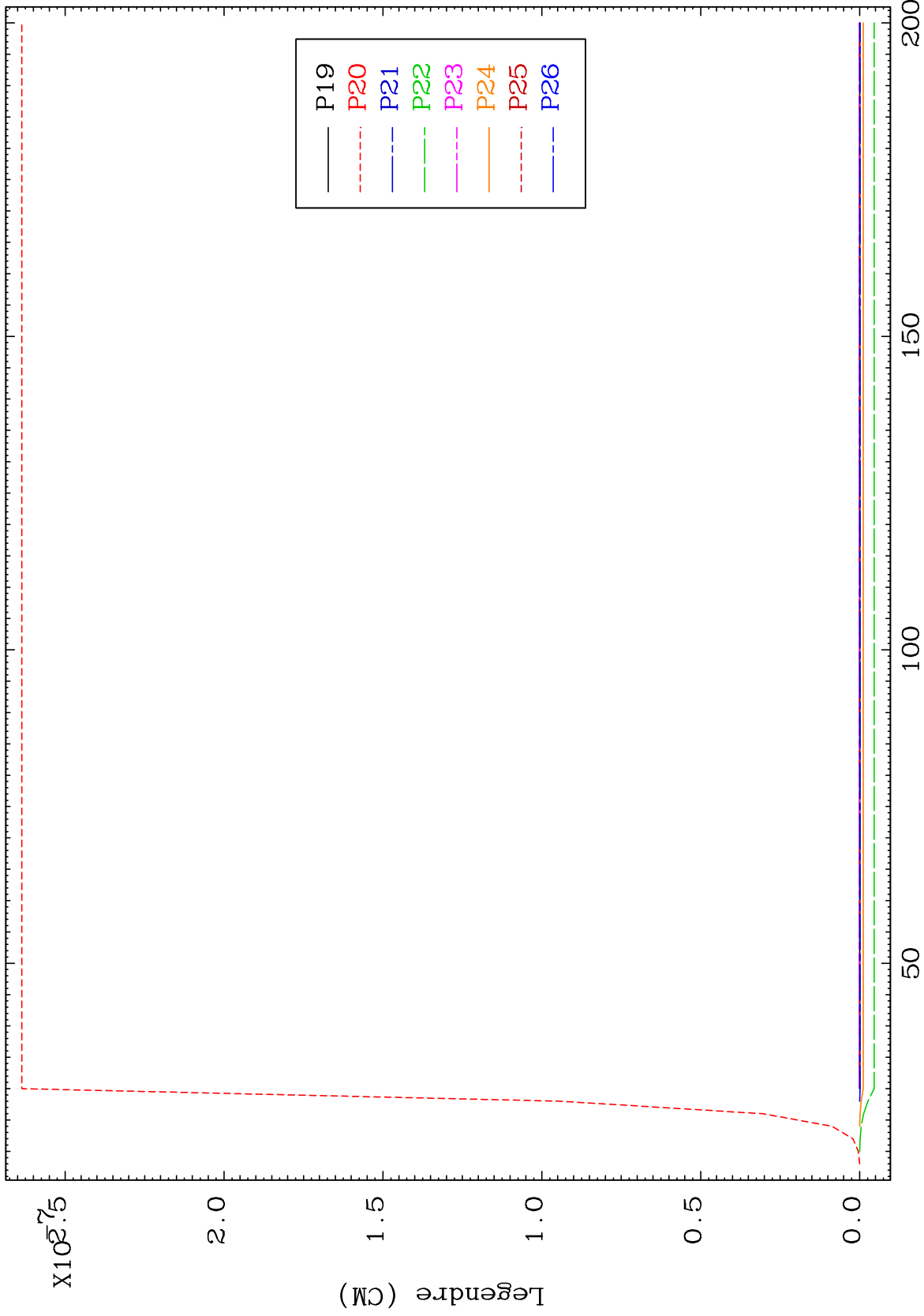
Incident Energy (MeV)

50

MAT 5998

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

60-Nd-133



51

Incident Energy (MeV)

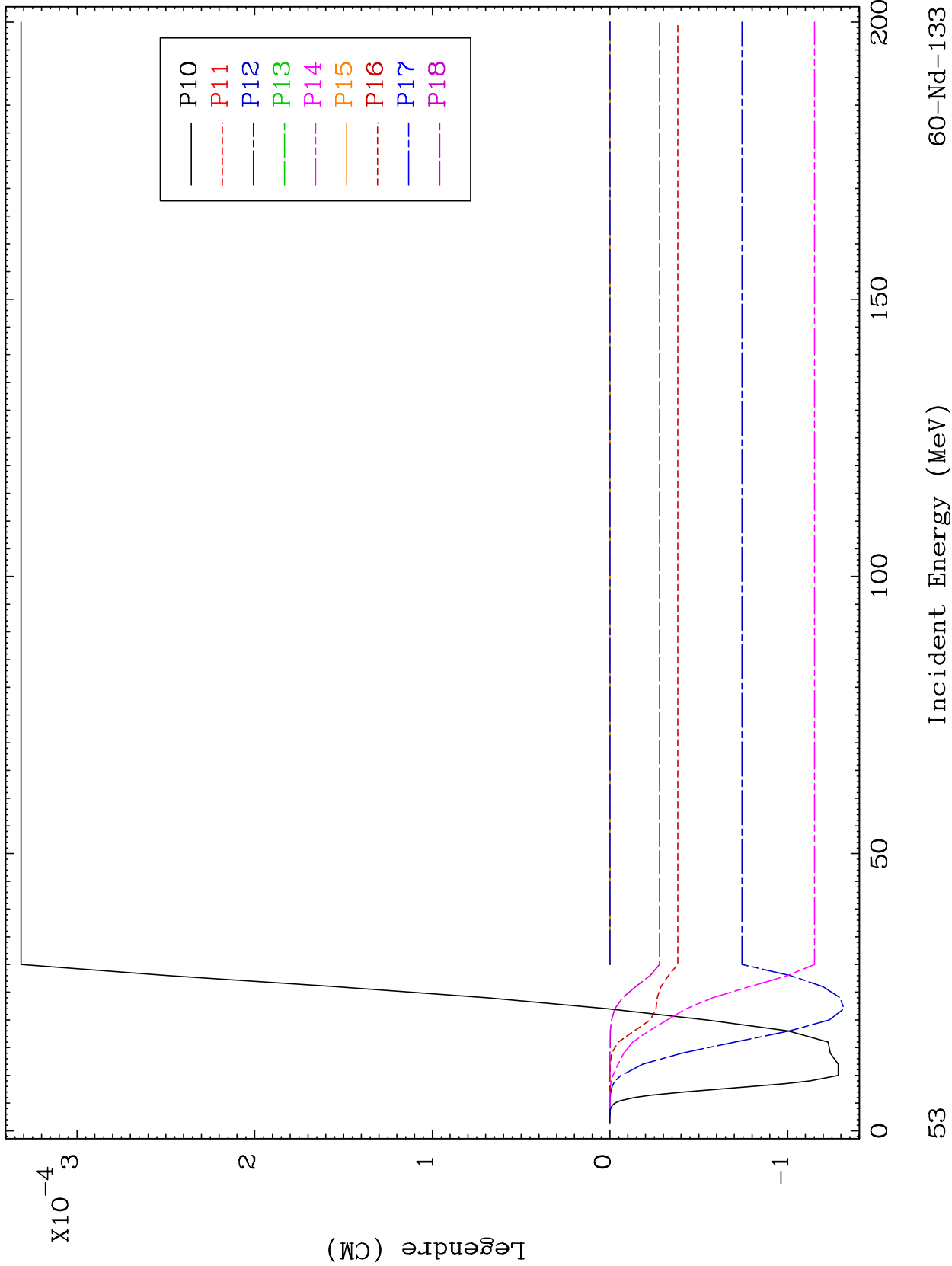
60-Nd-133



MAT 5998

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

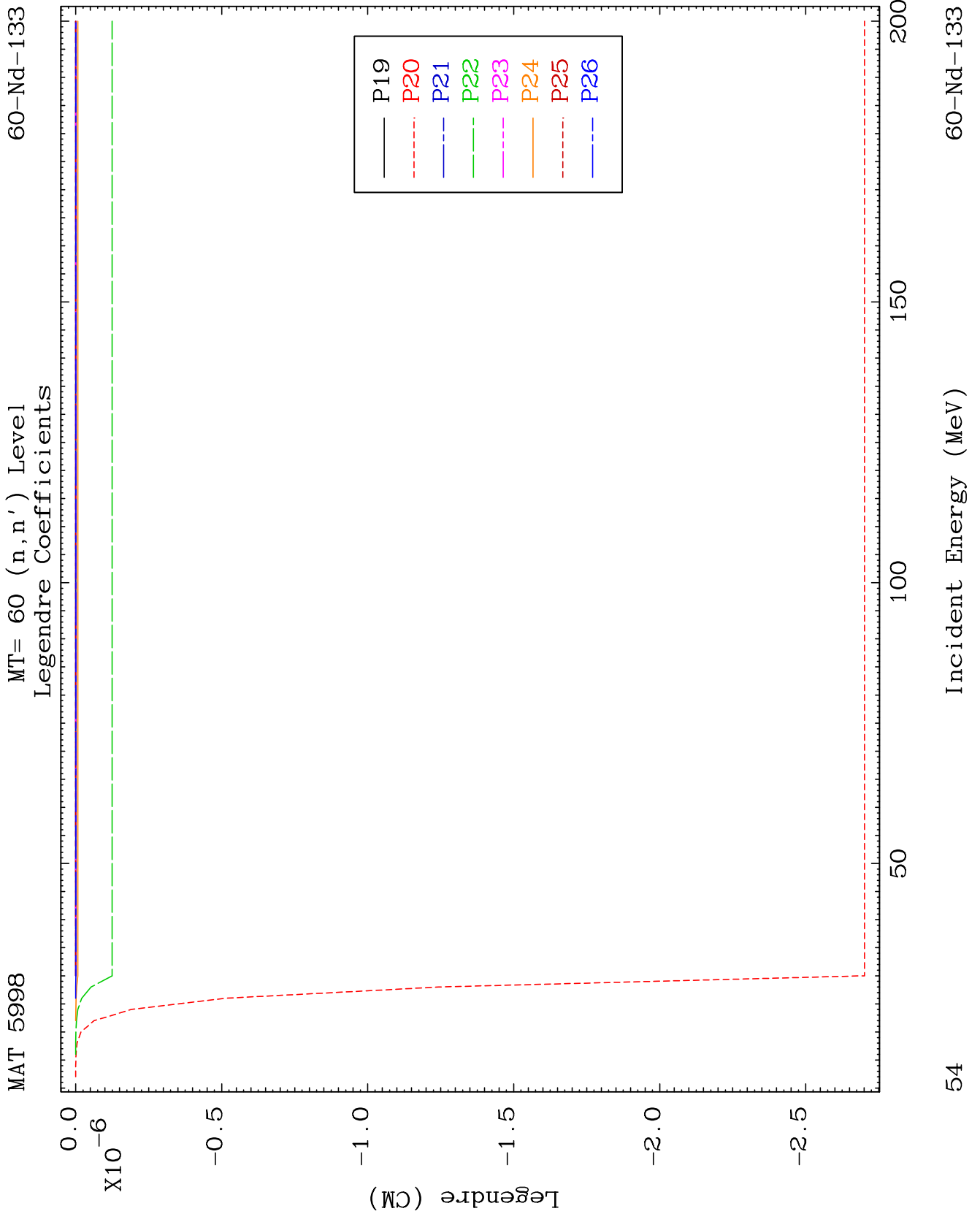
60-Nd-133



53

Incident Energy (MeV)

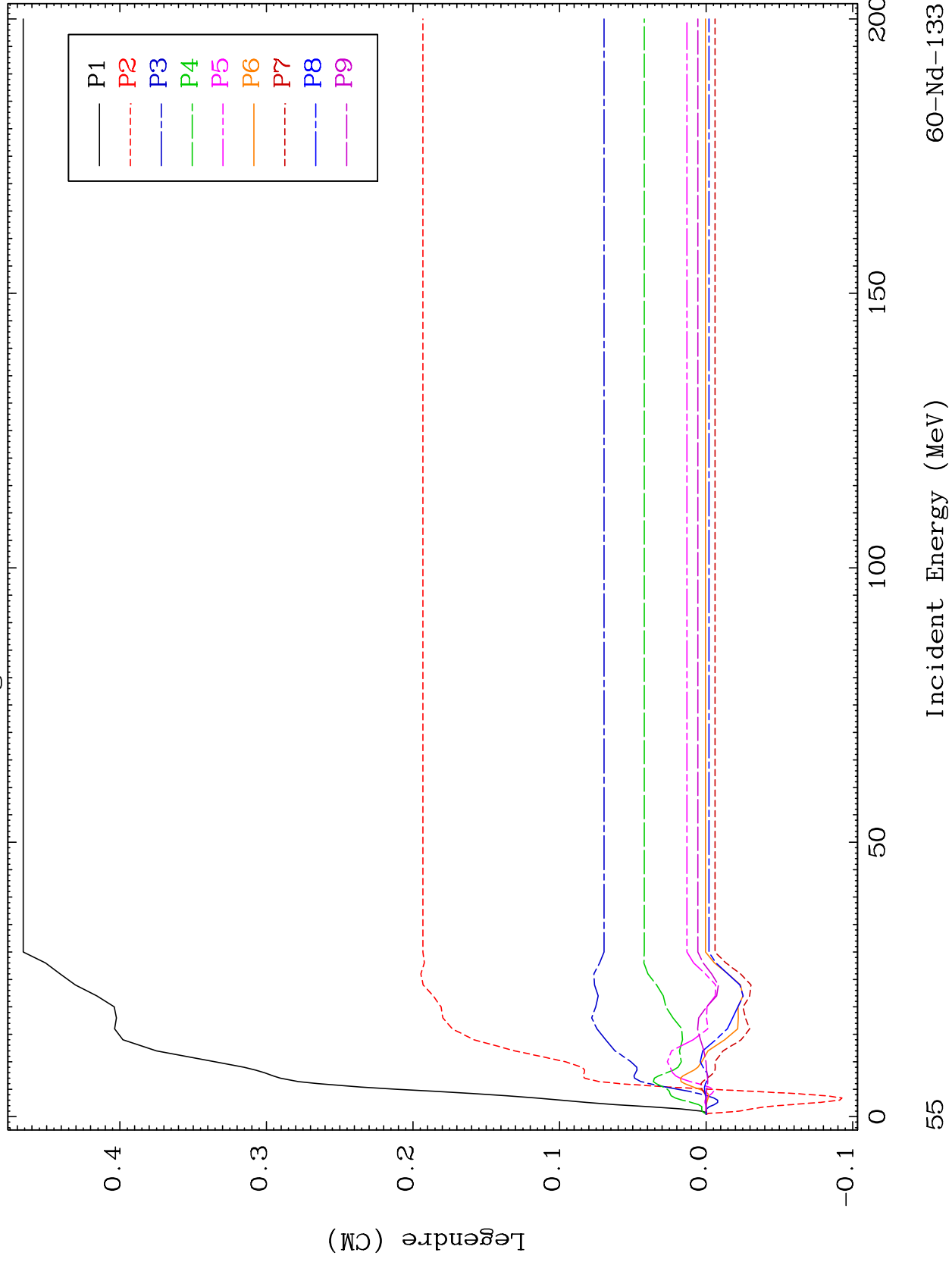
60-Nd-133



MAT 5998

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

60-Nd-133



60-Nd-133

Incident Energy (MeV)

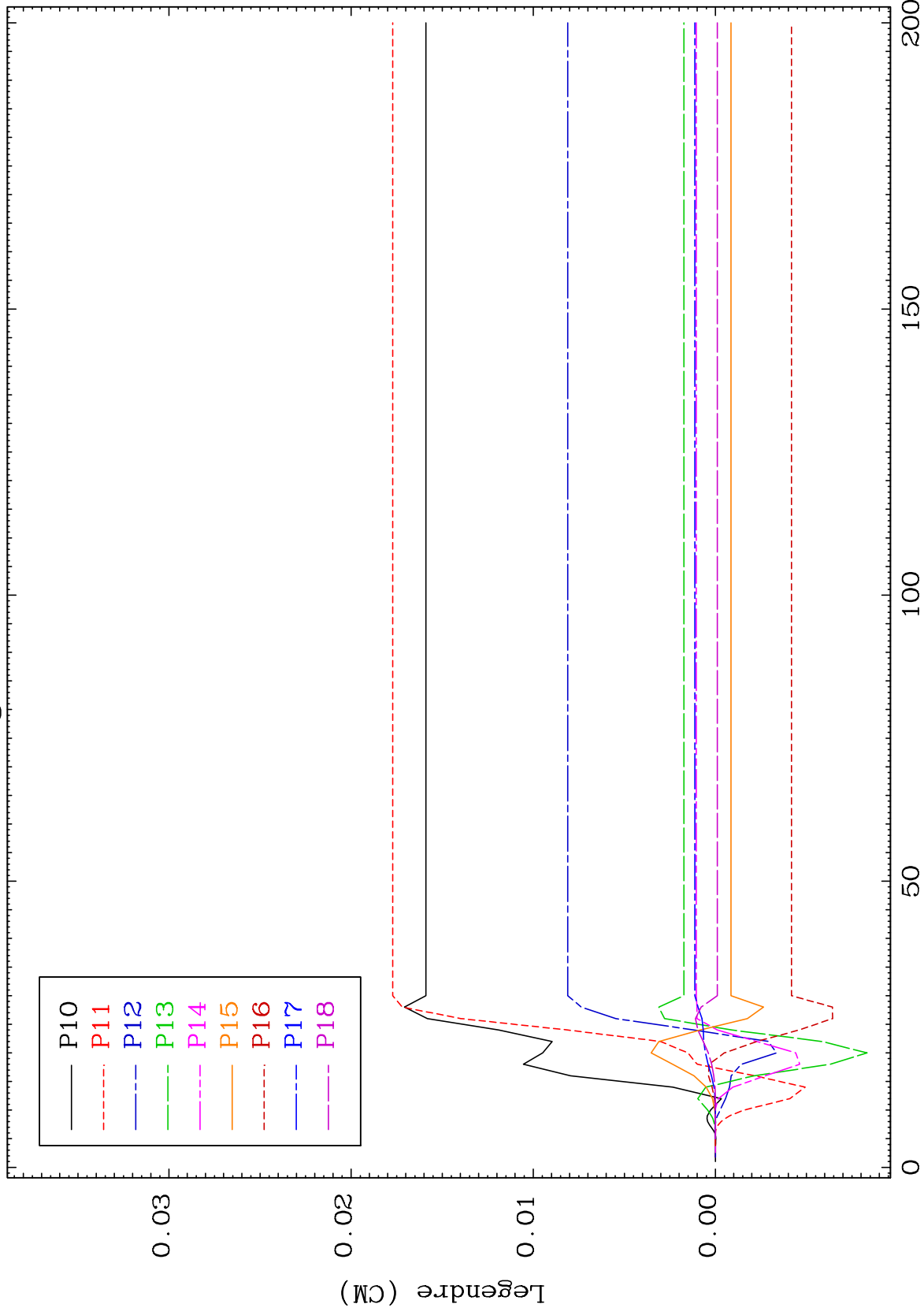
55



MAT 5998

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

60-Nd-133



56

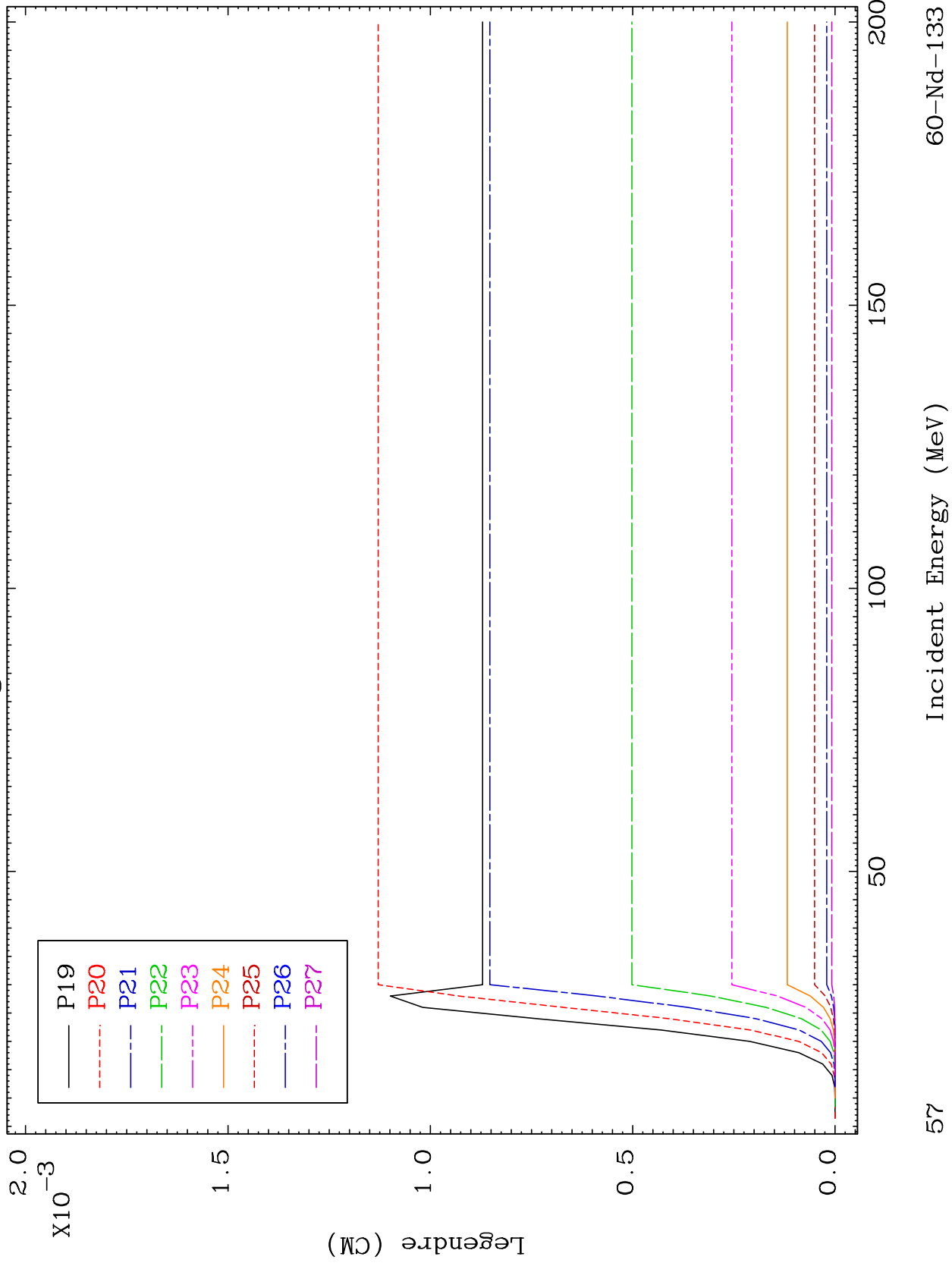
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

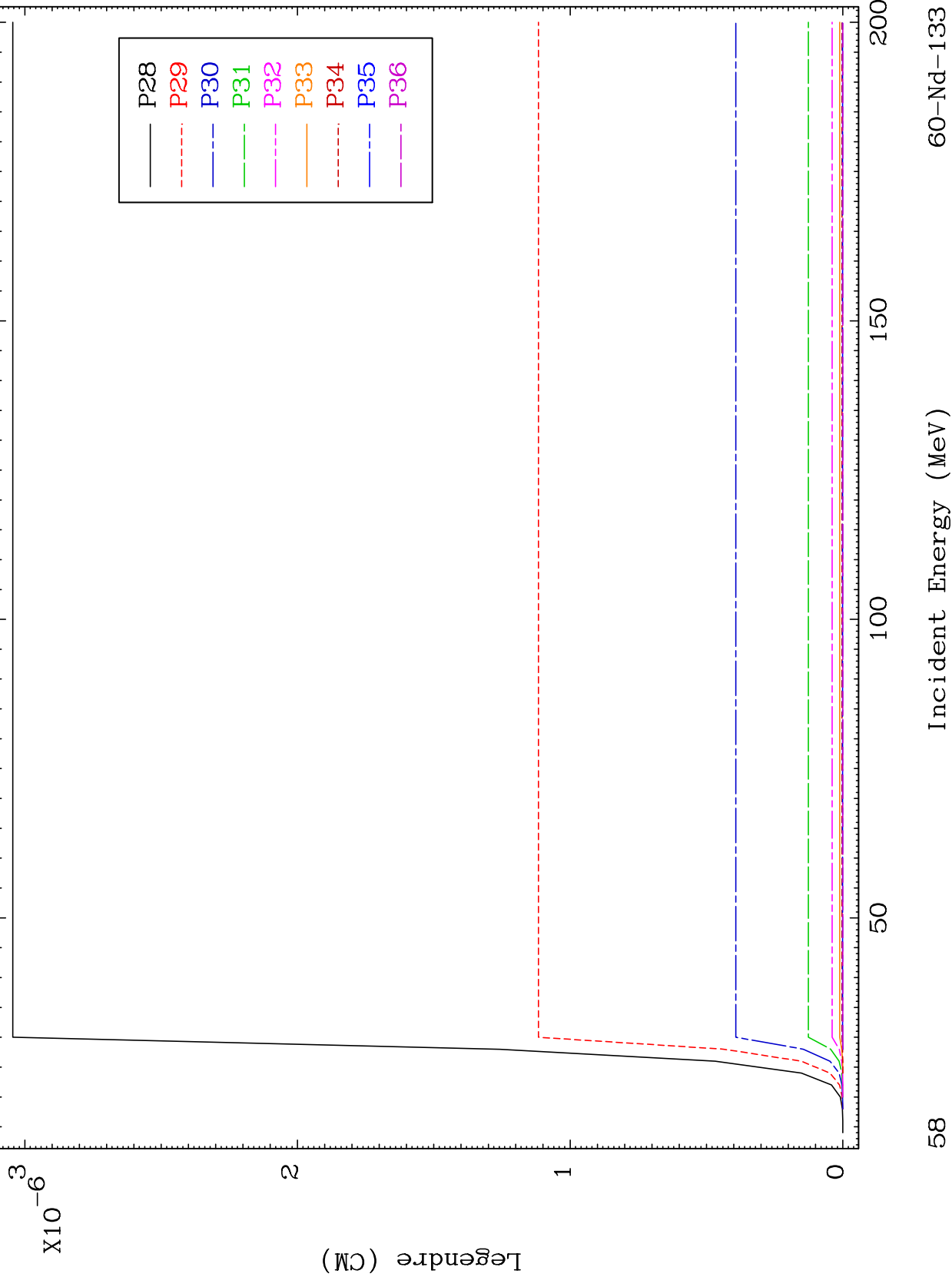
60-Nd-133



MAT 5998

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

60-Nd-133



58

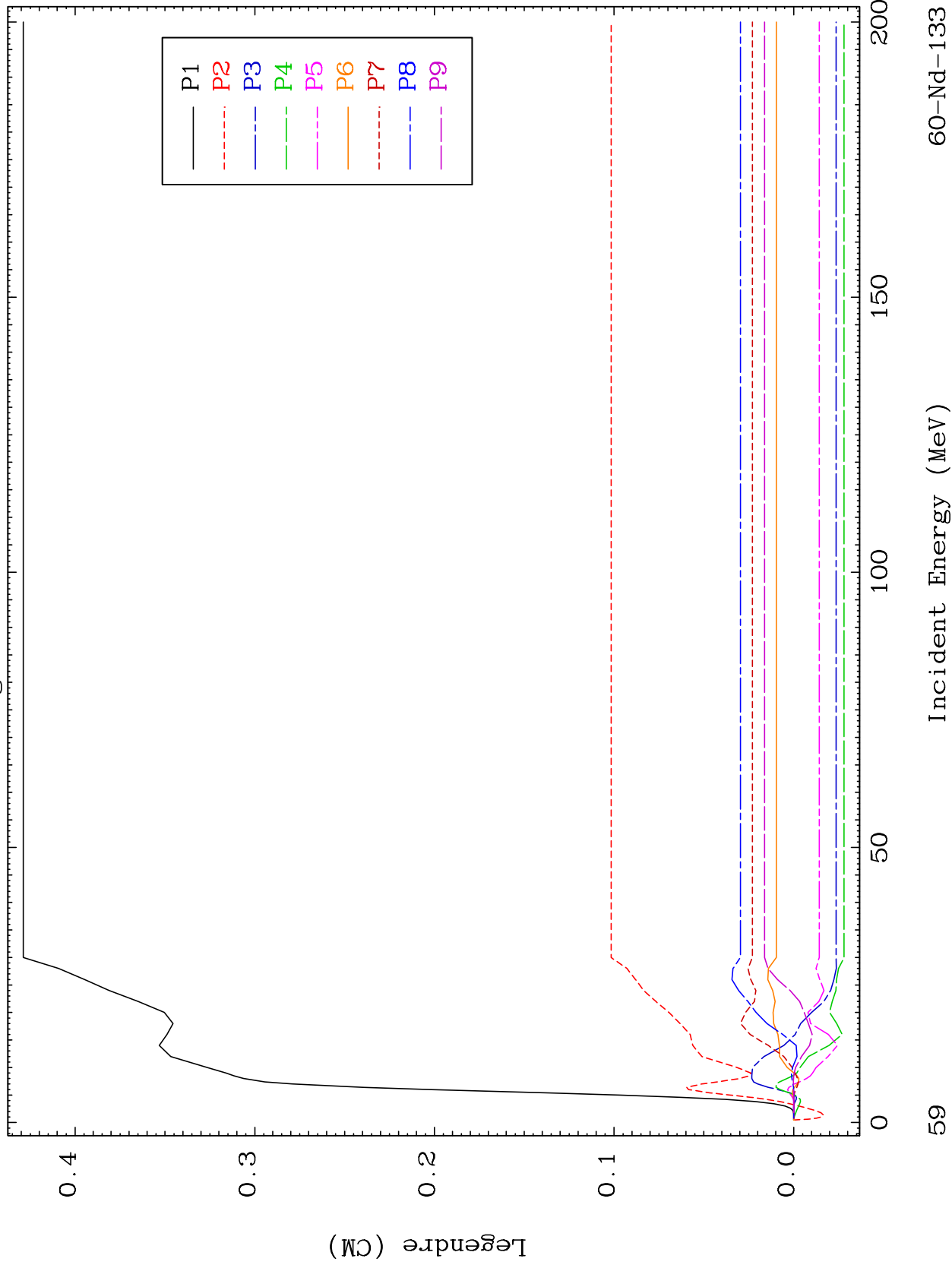
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133



60-Nd-133

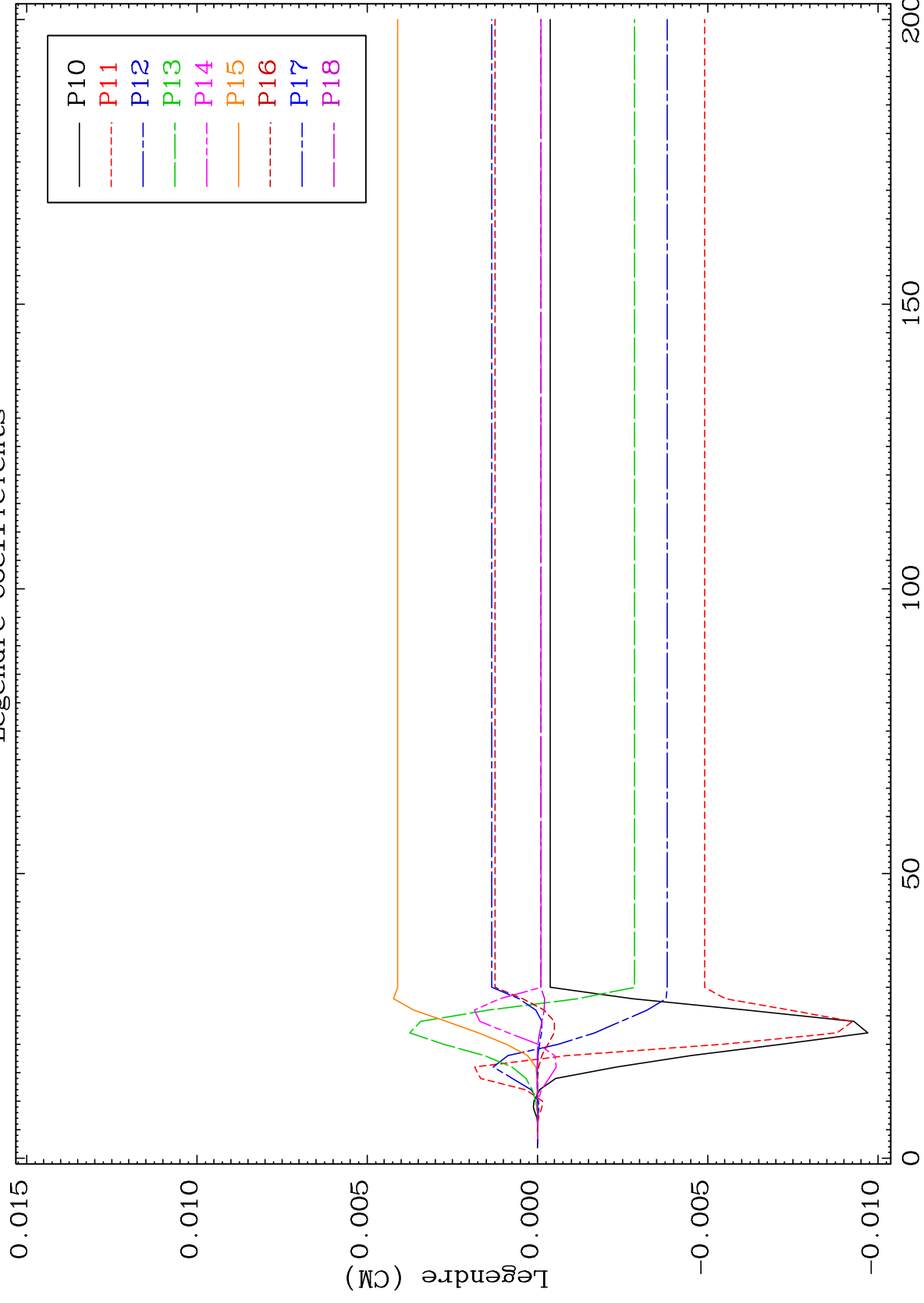
Incident Energy (MeV)

59

MAT 5998

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

60-Nd-133



60

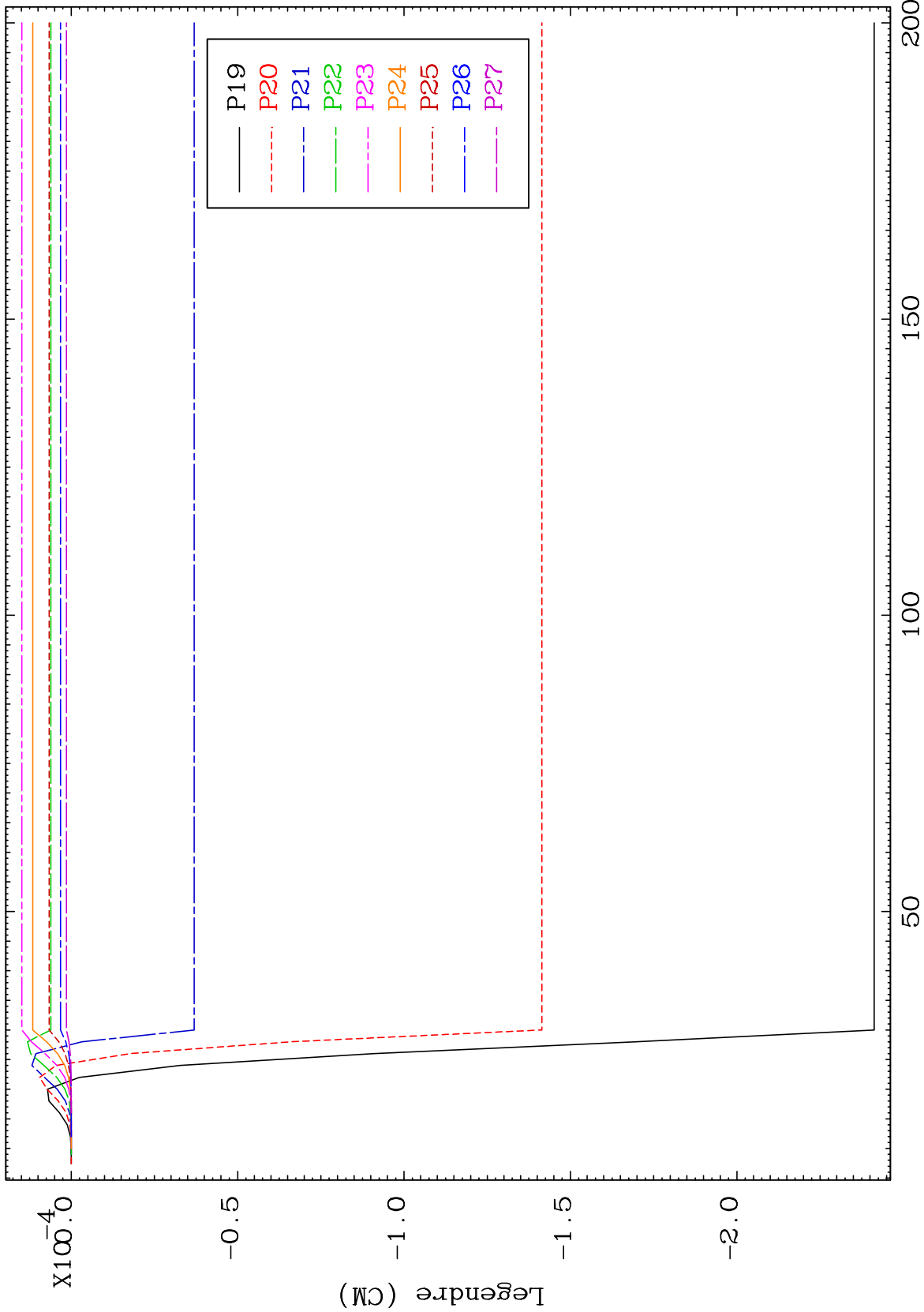
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133



61

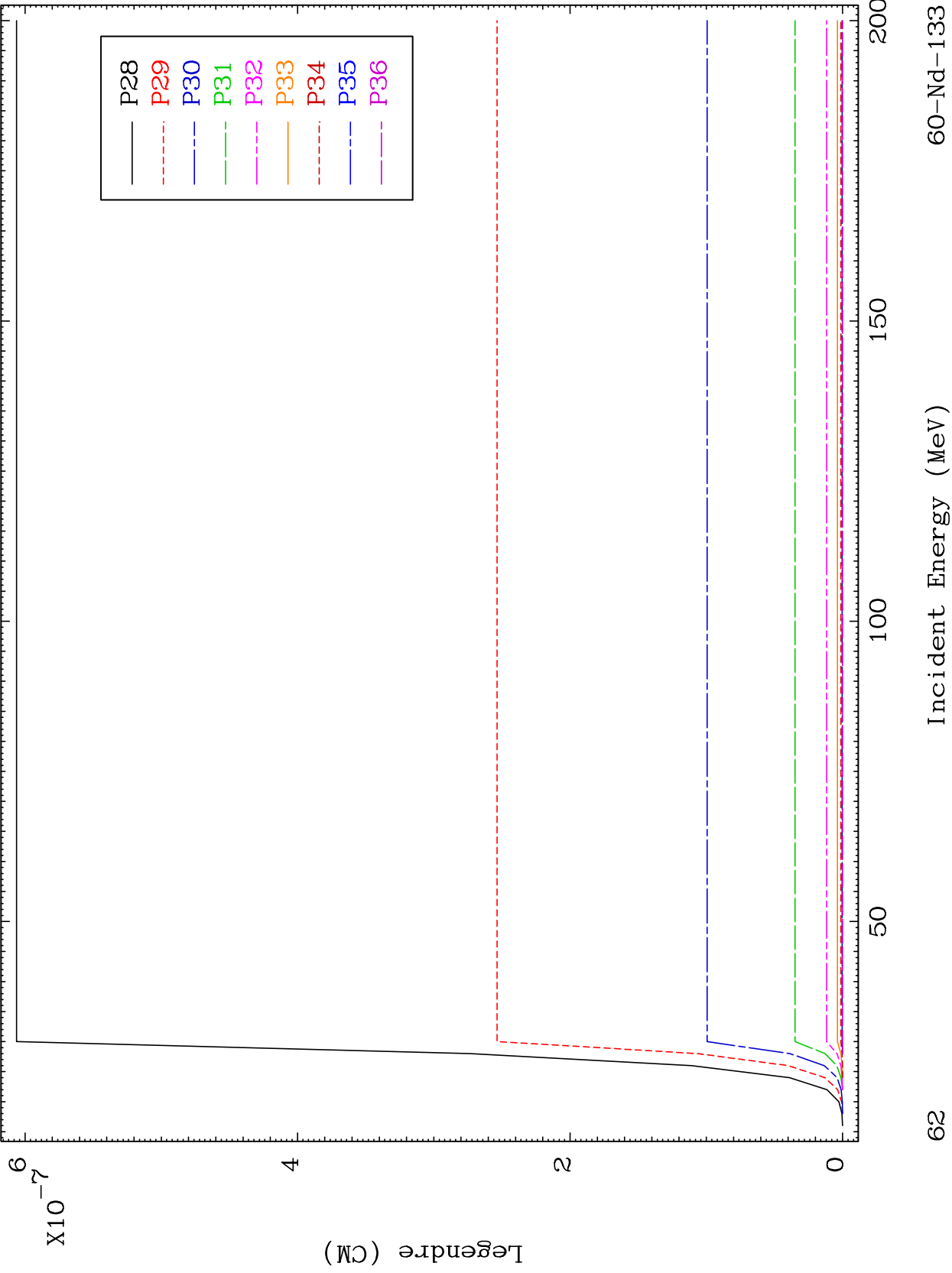
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133



62

60-Nd-133

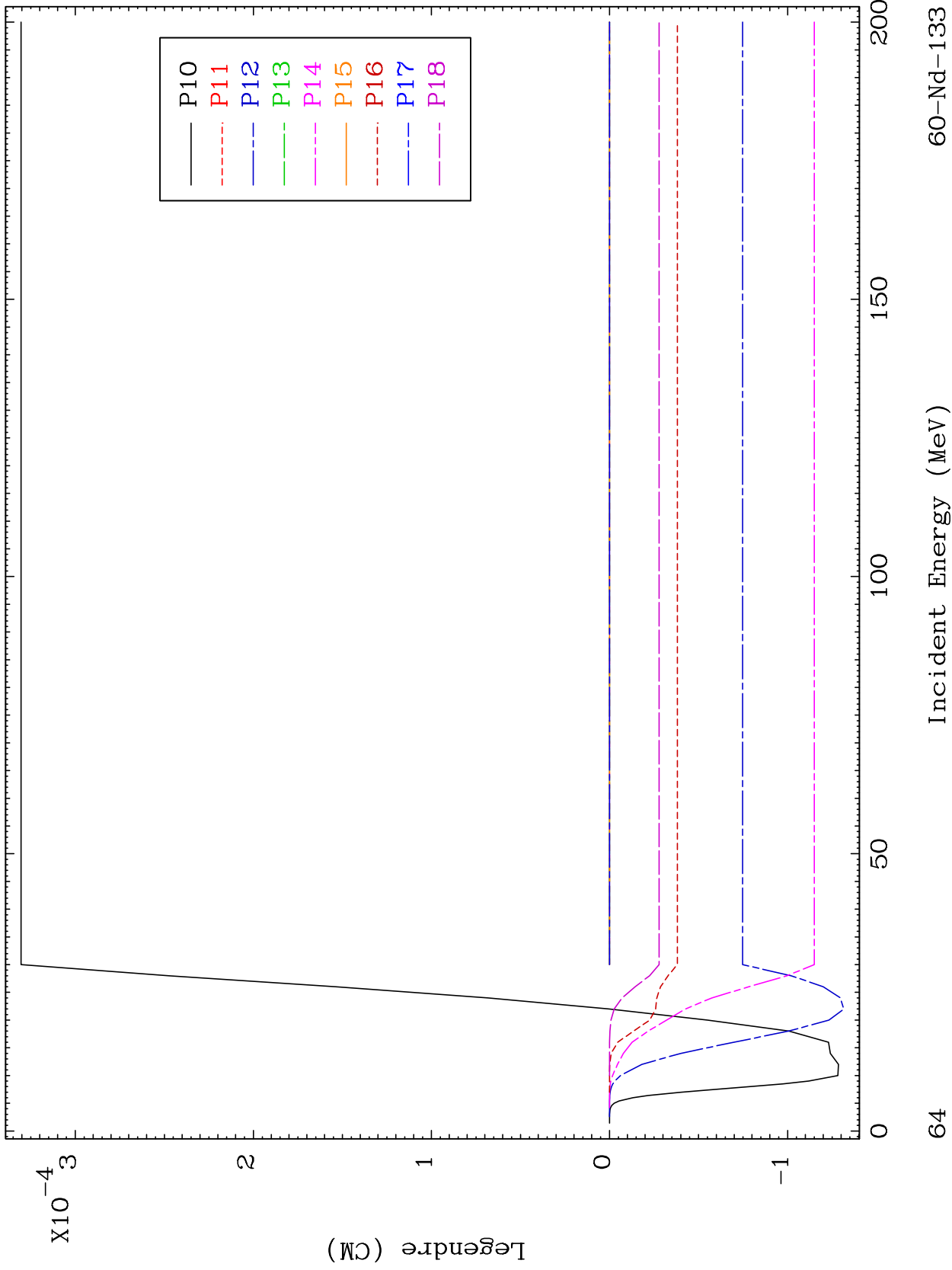




MAT 5998

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

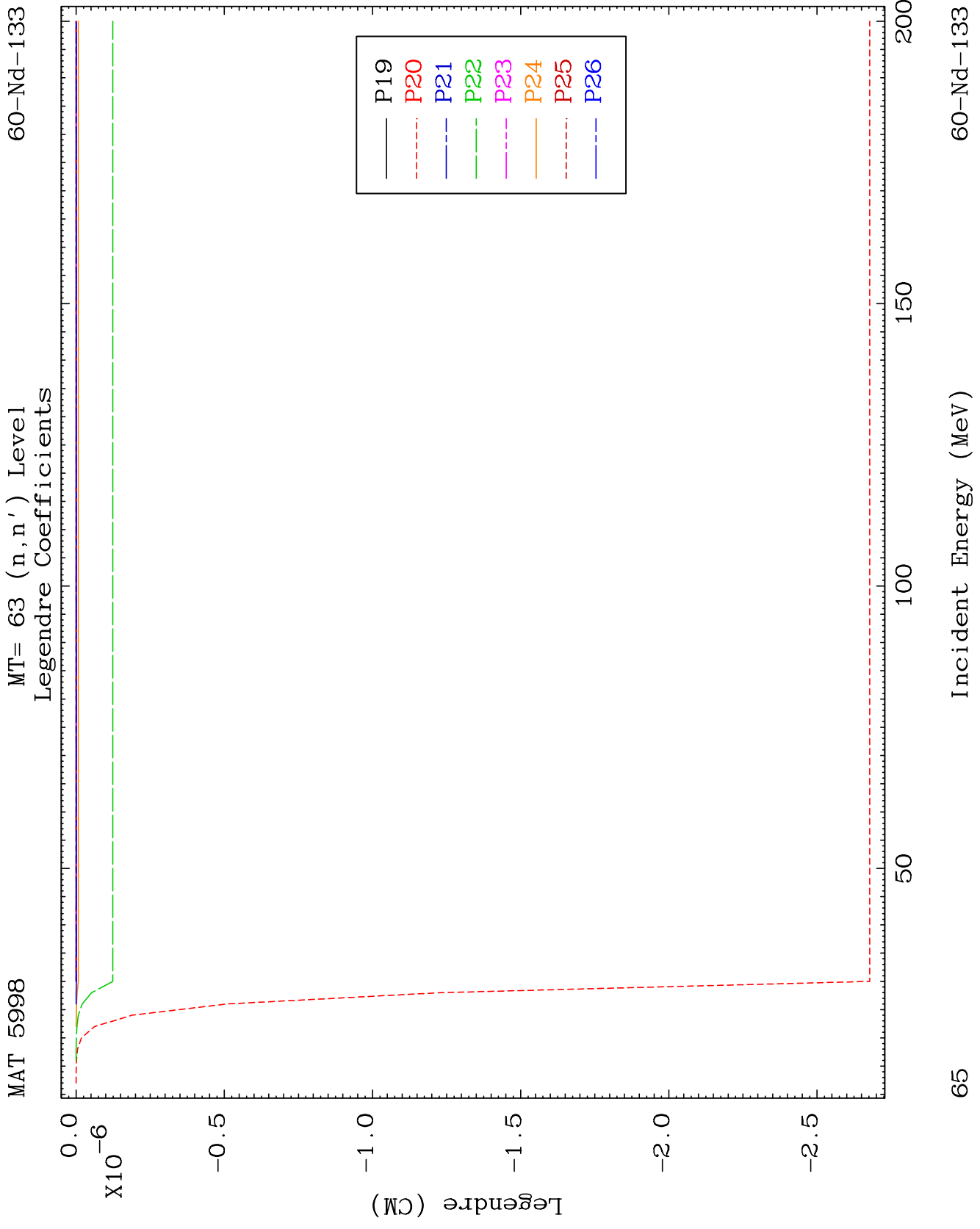
60-Nd-133



64

Incident Energy (MeV)

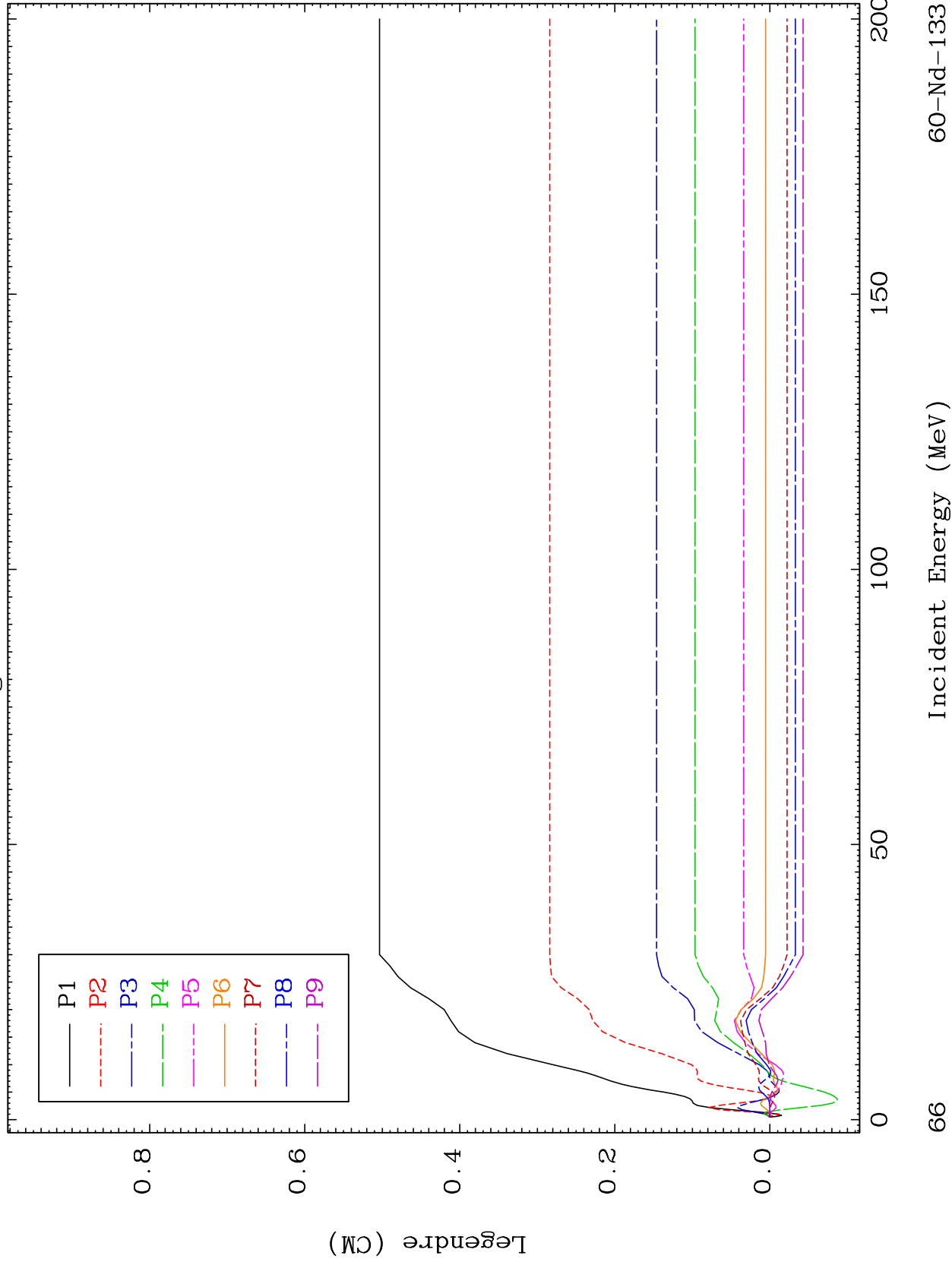
60-Nd-133



MAT 5998

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

60-Nd-133



66

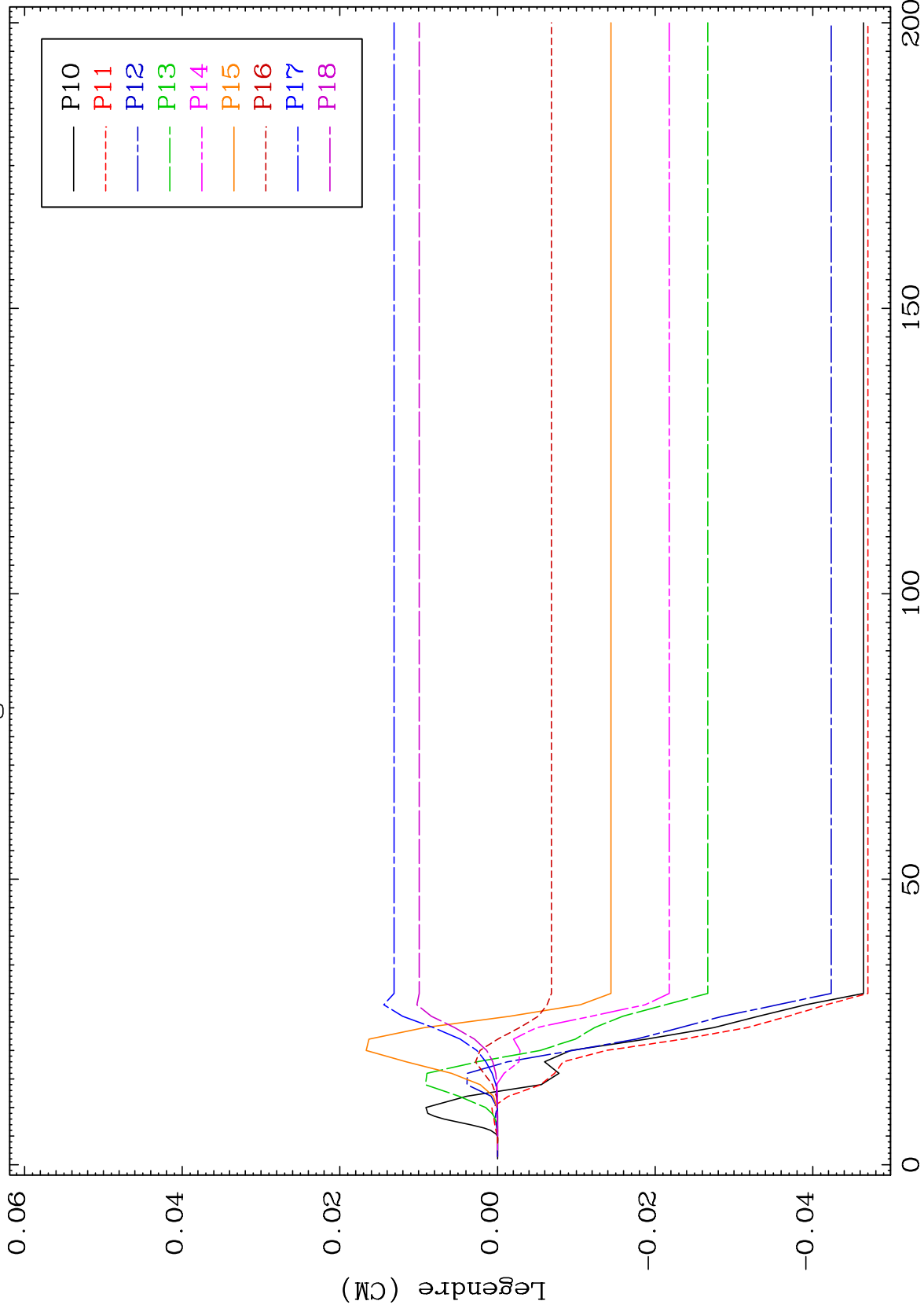
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133



67

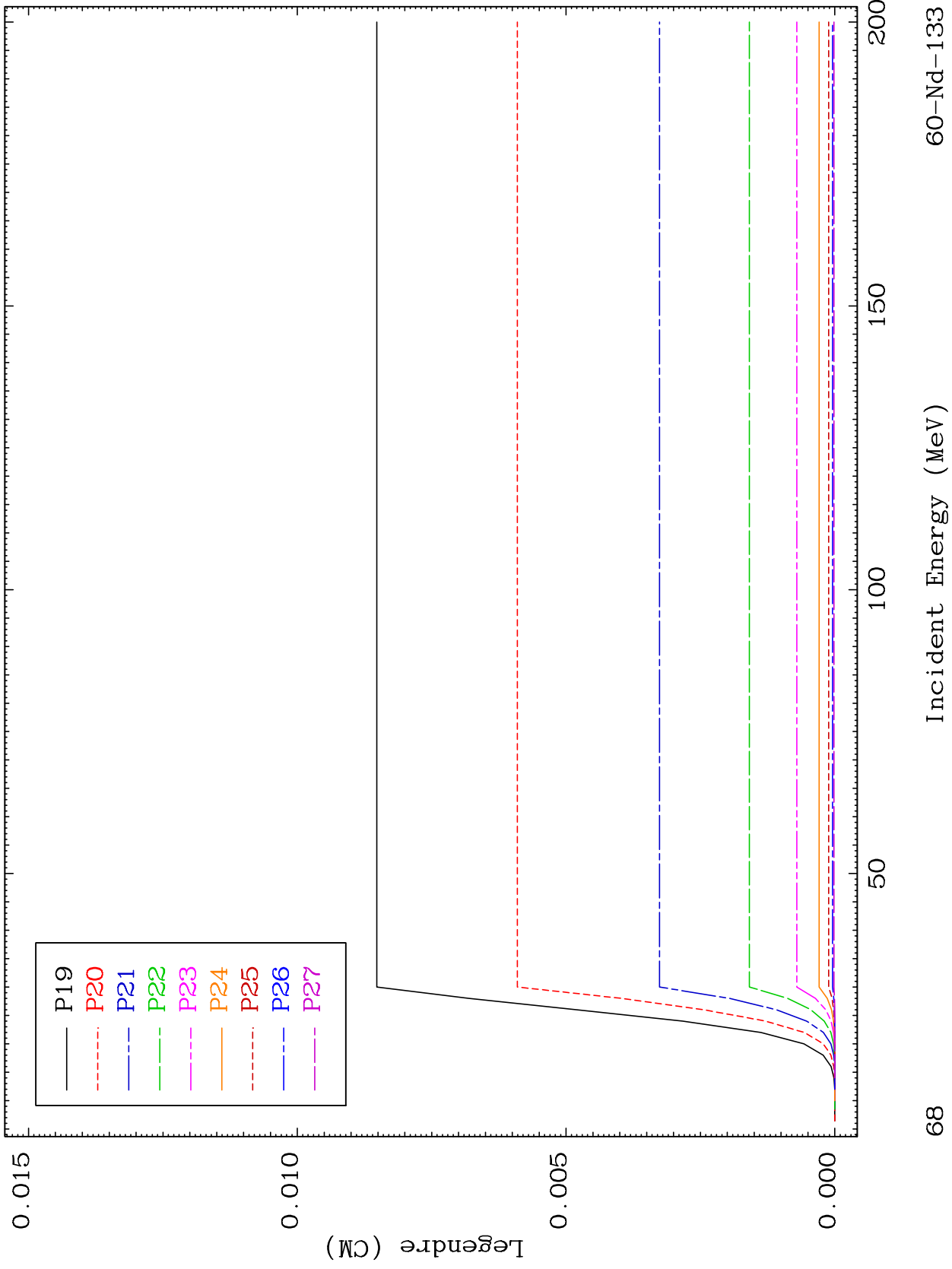
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133



68

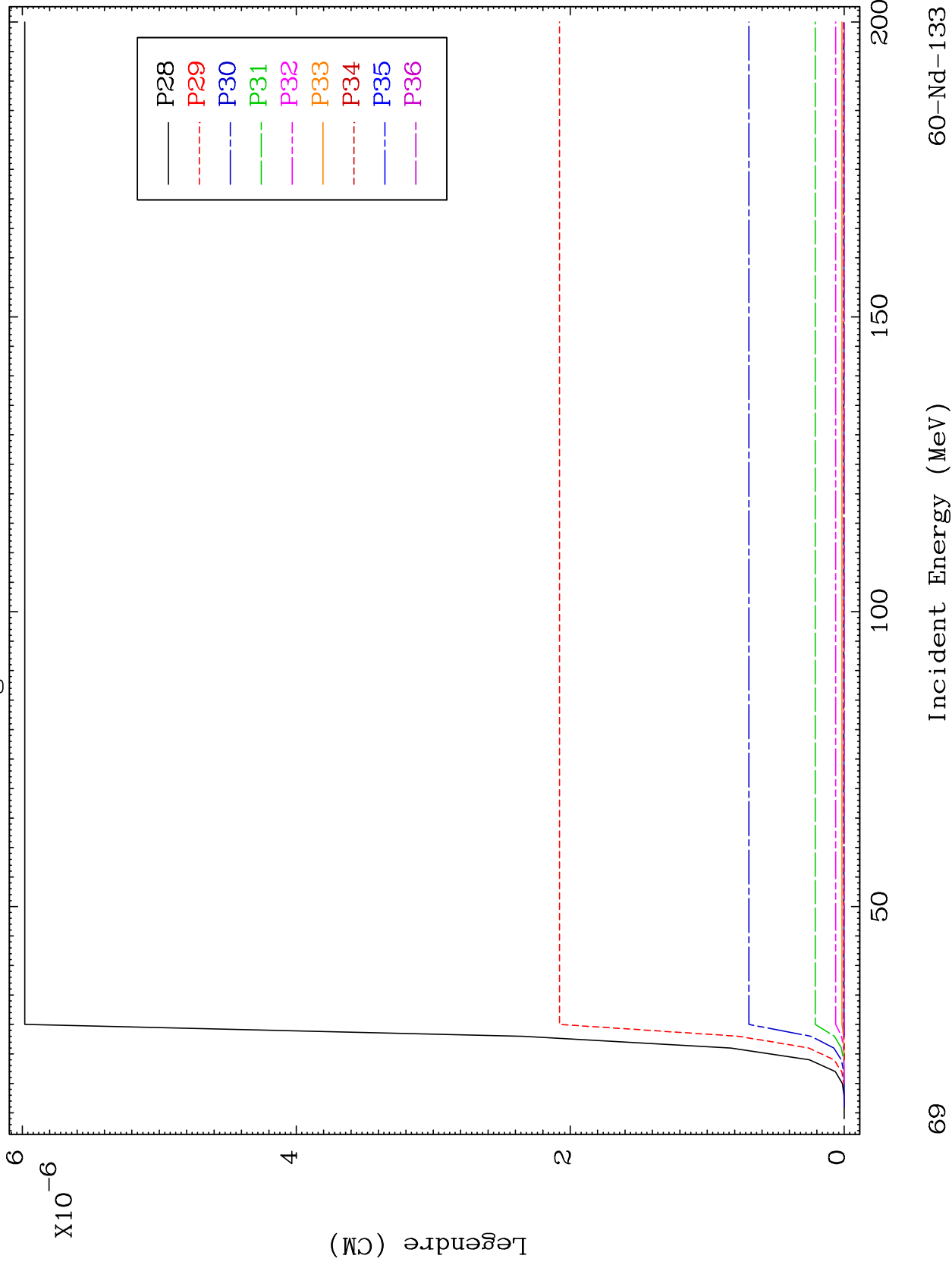
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133



69

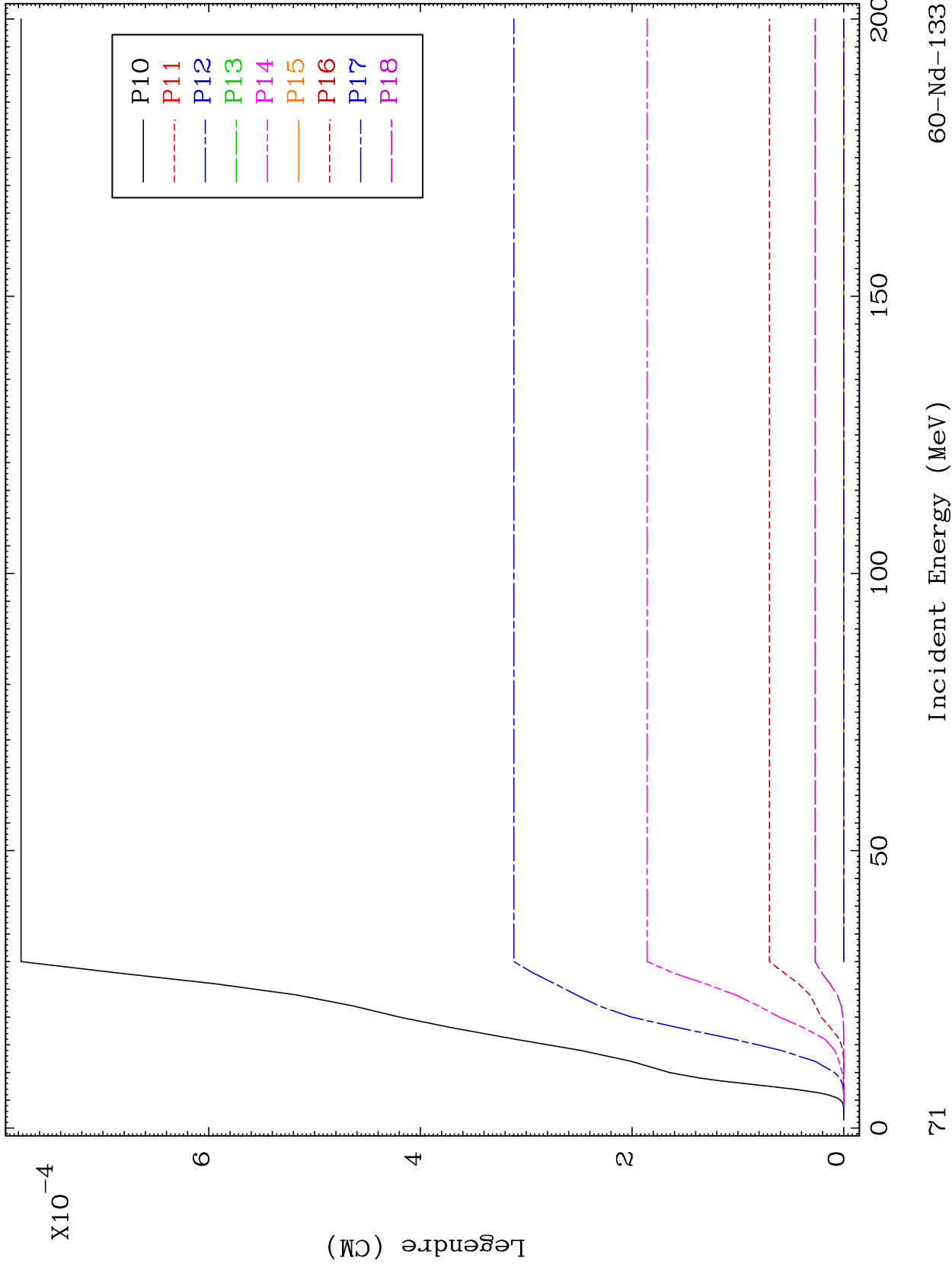
60-Nd-133



MAT 5998

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

60-Nd-133



60-Nd-133

Incident Energy (MeV)

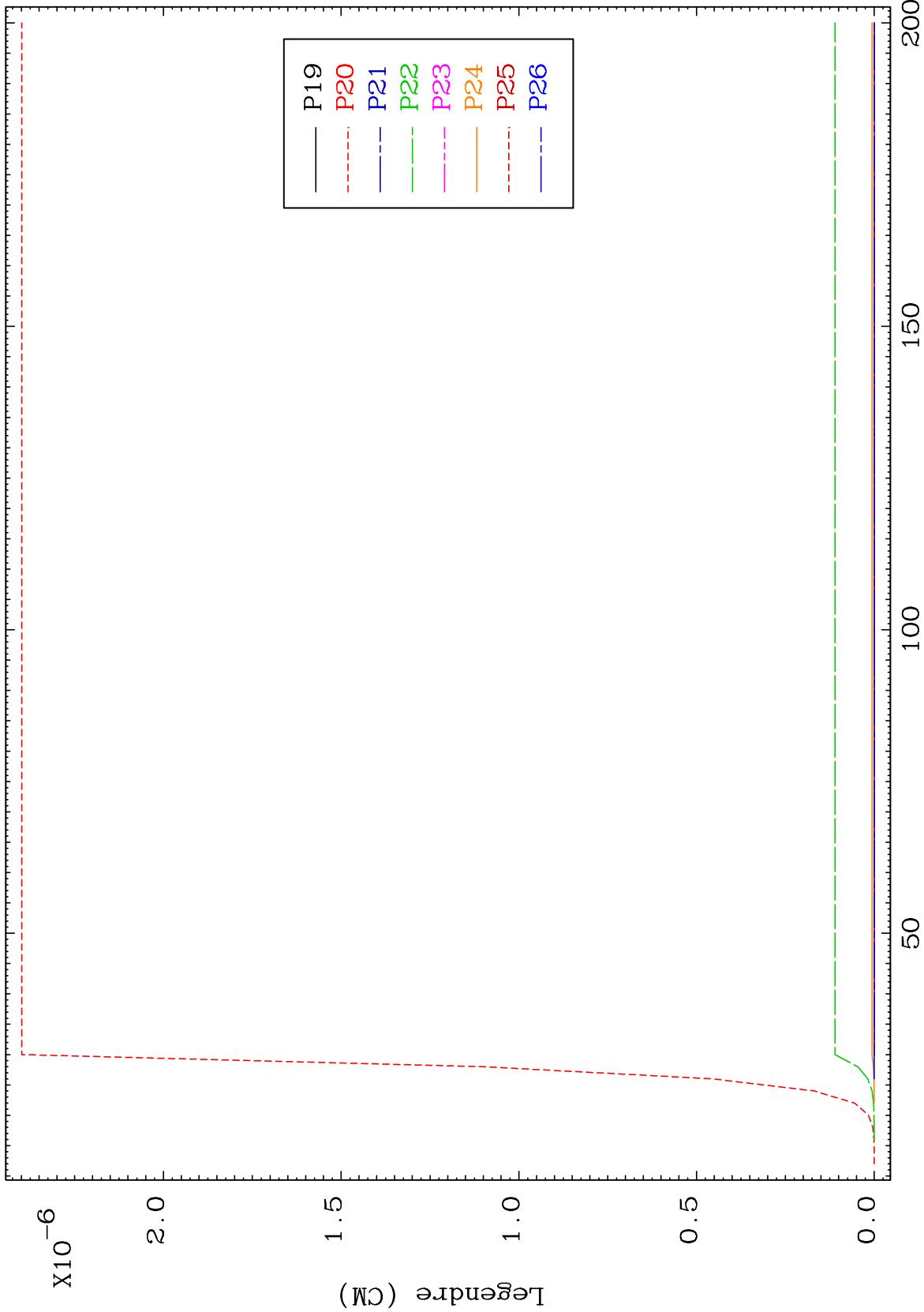
71



MAT 5998

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

60-Nd-133



60-Nd-133

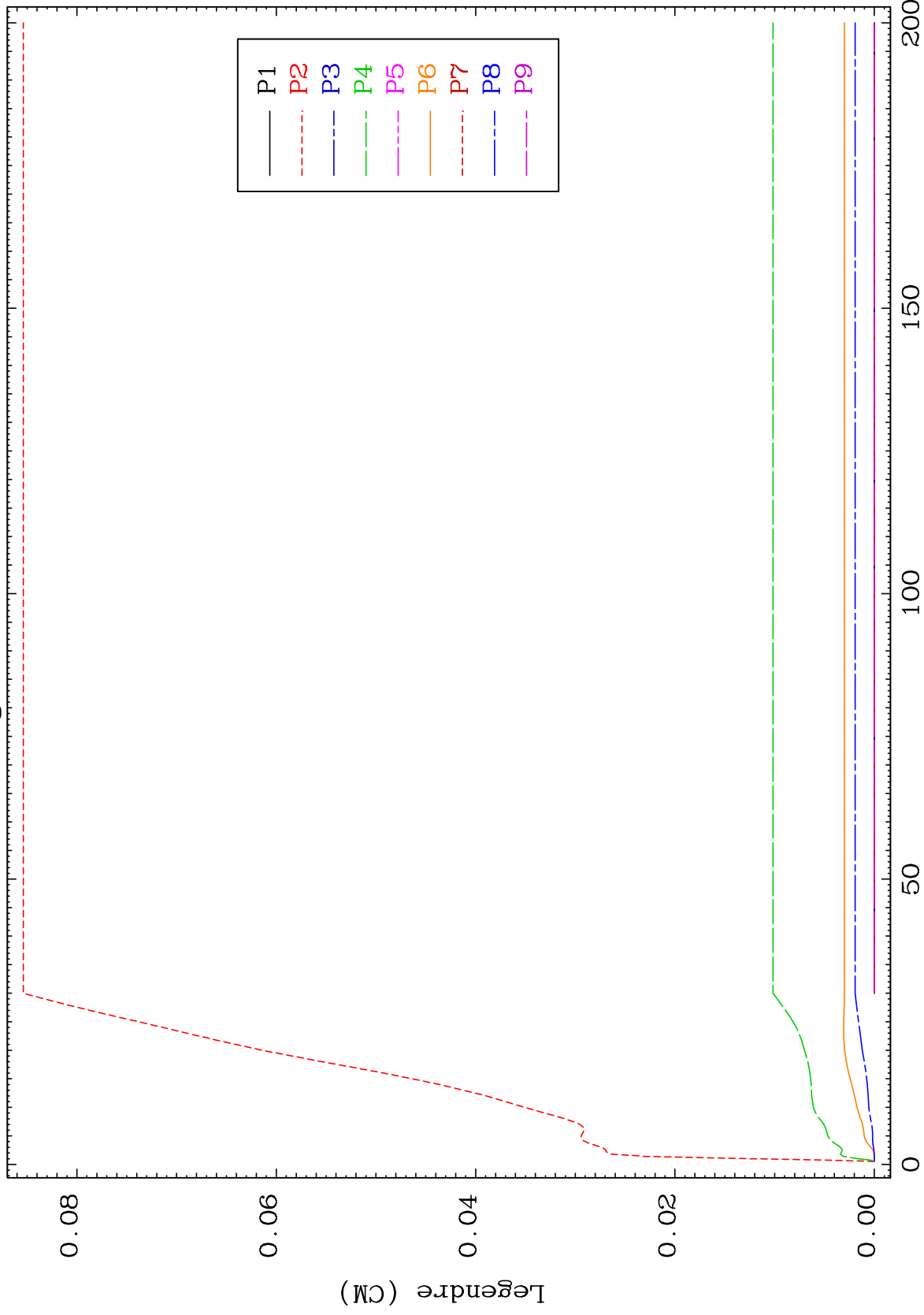
Incident Energy (MeV)

72

MAT 5998

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

60-Nd-133



73

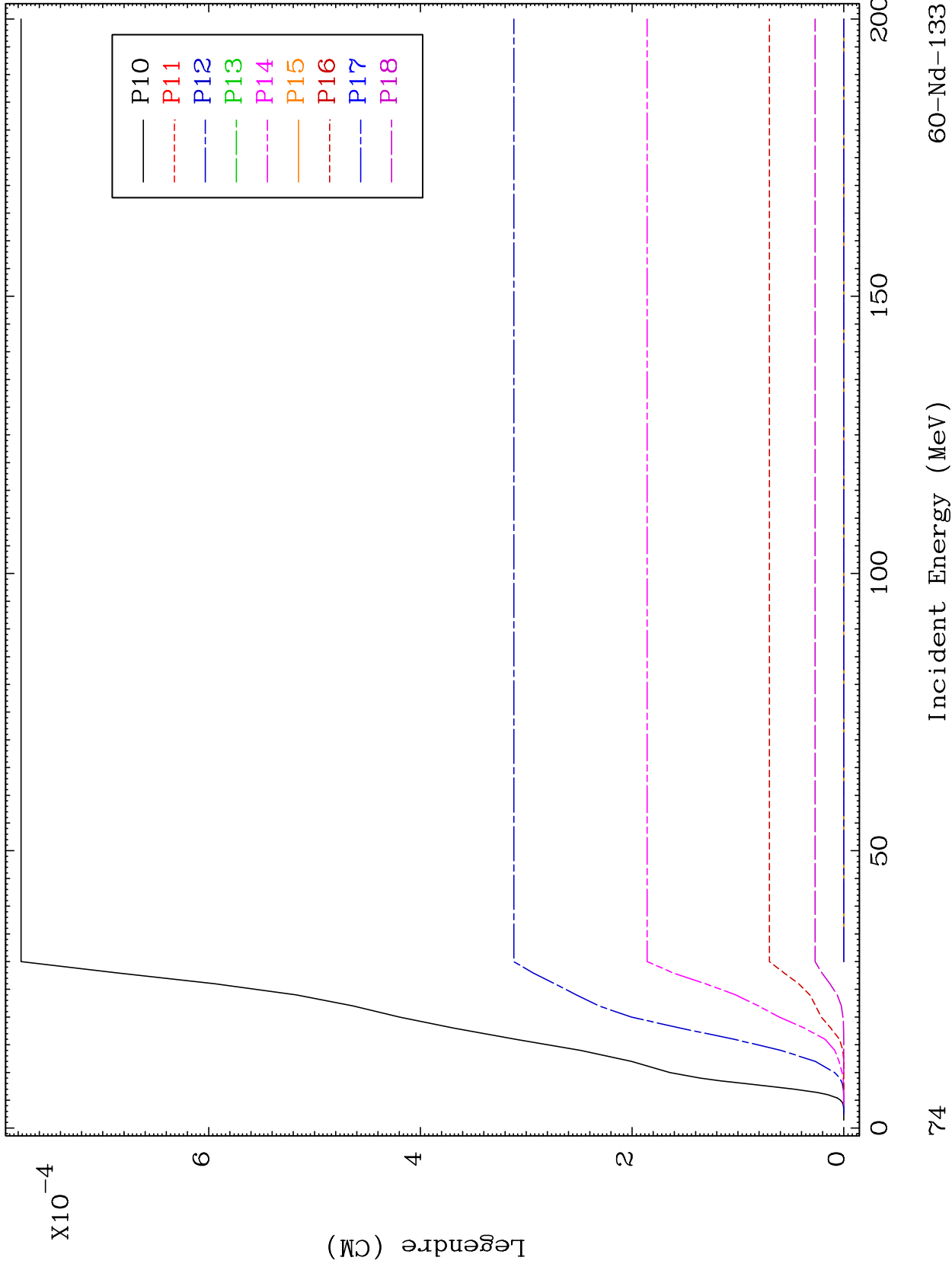
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

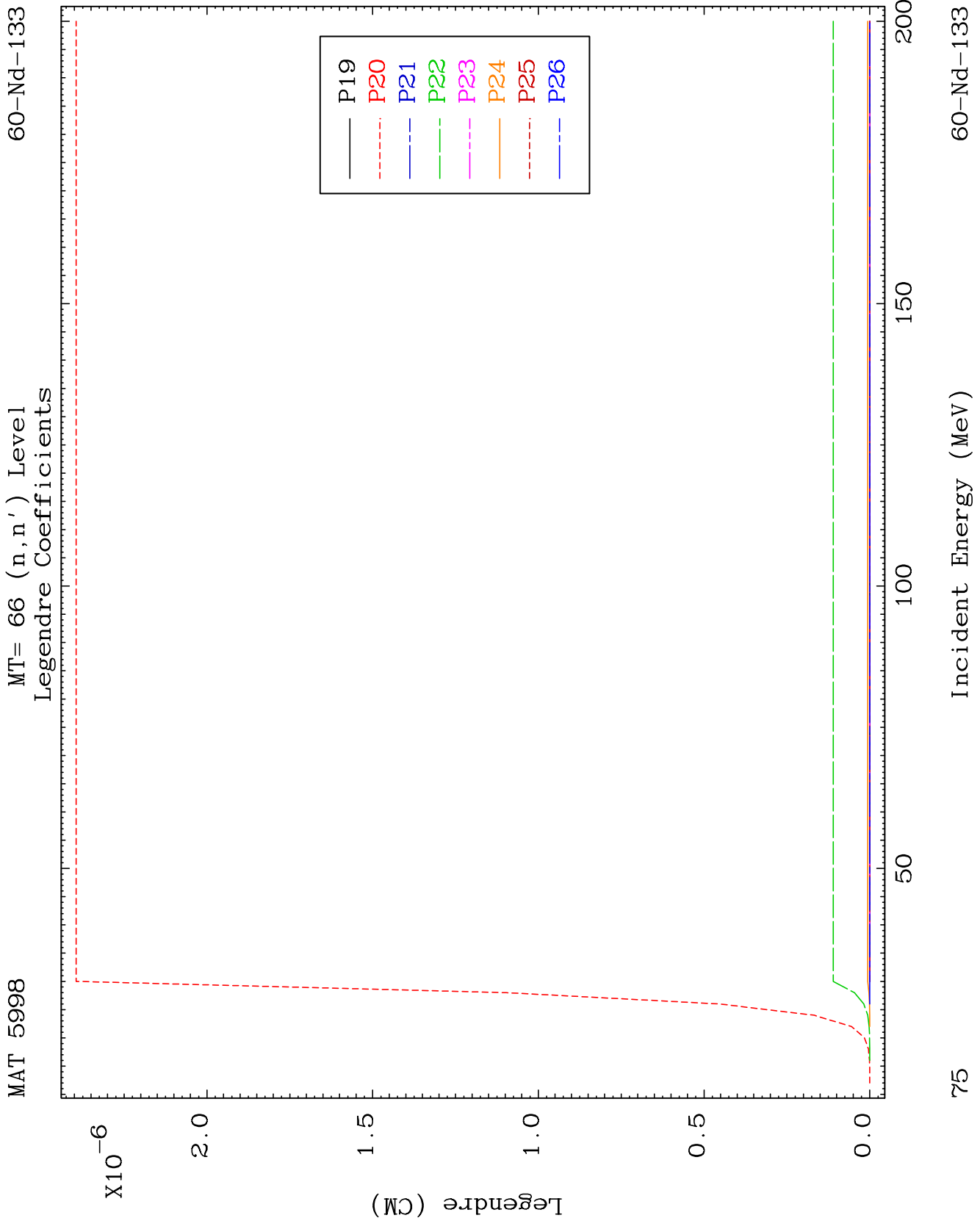
60-Nd-133



74

Incident Energy (MeV)

60-Nd-133

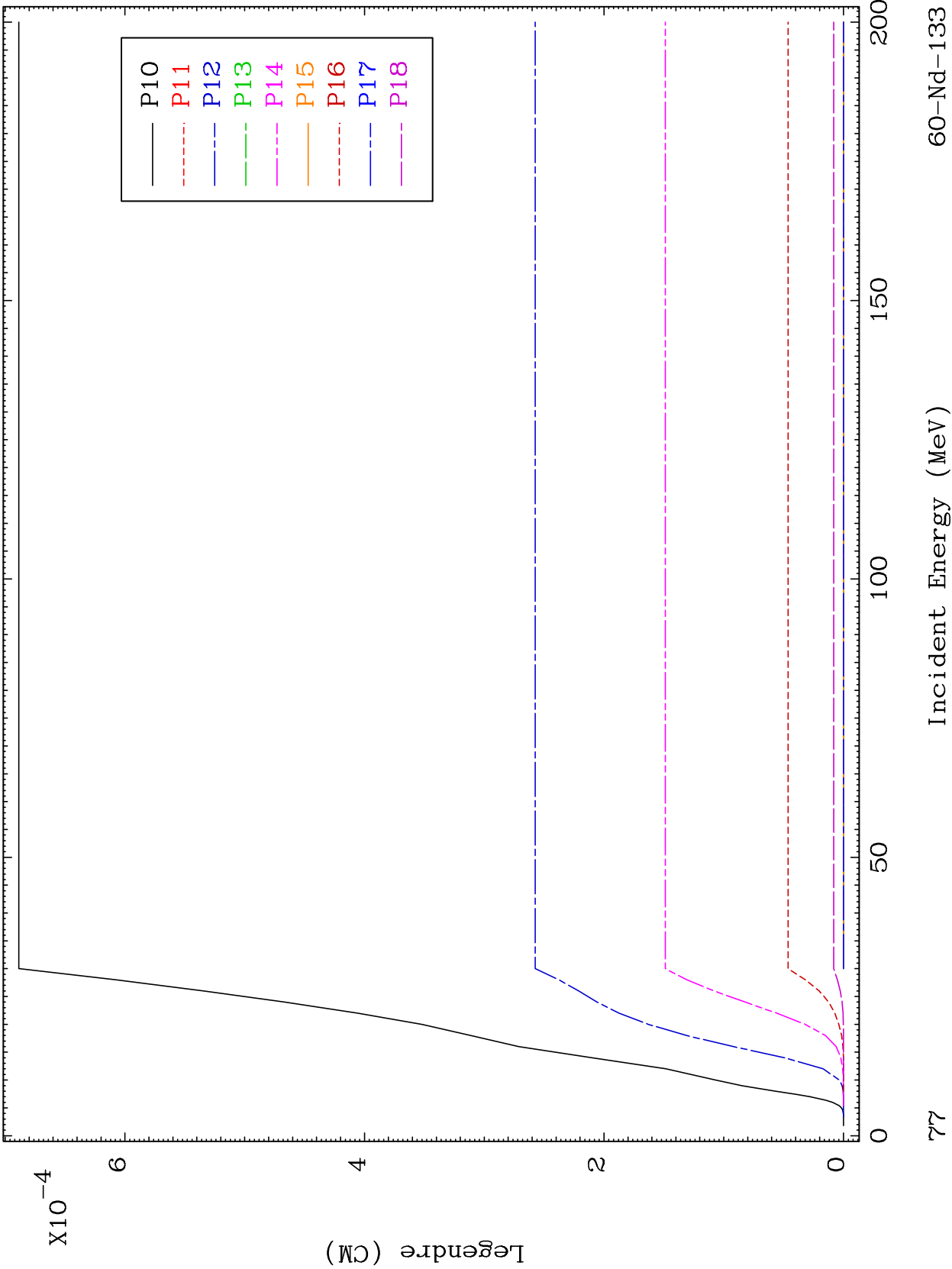




MAT 5998

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

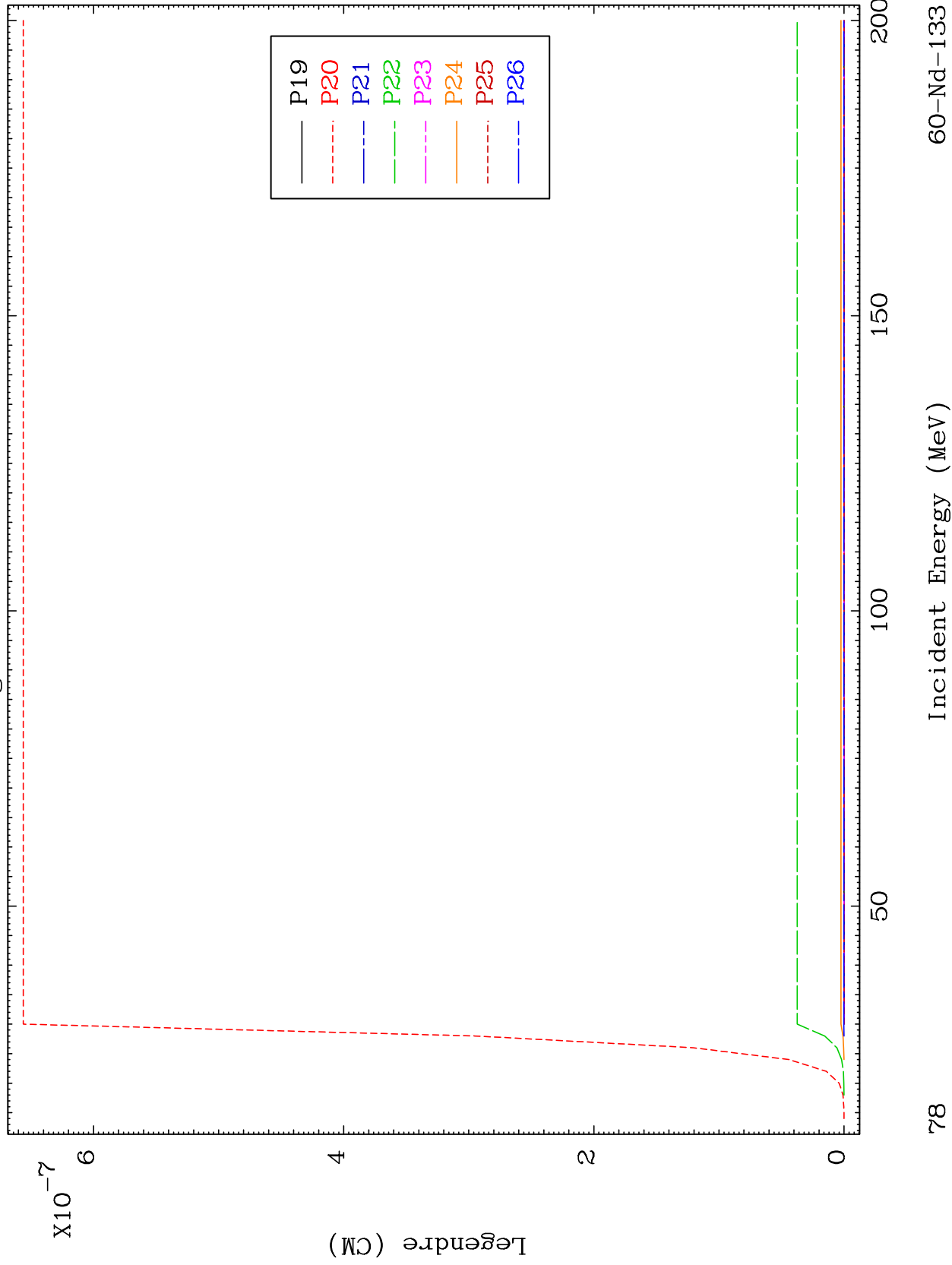
60-Nd-133



MAT 5998

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

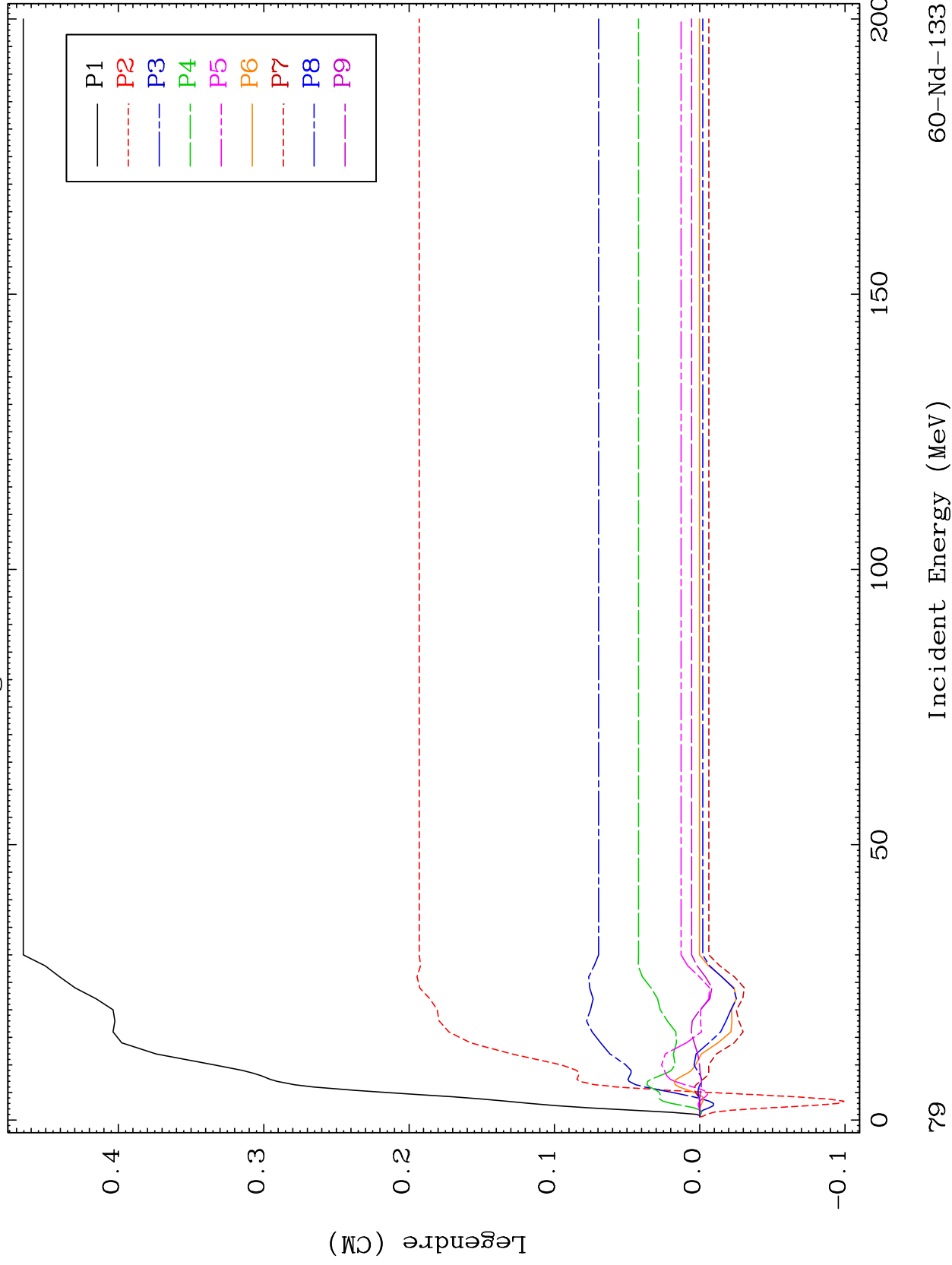
60-Nd-133



MAT 5998

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

60-Nd-133

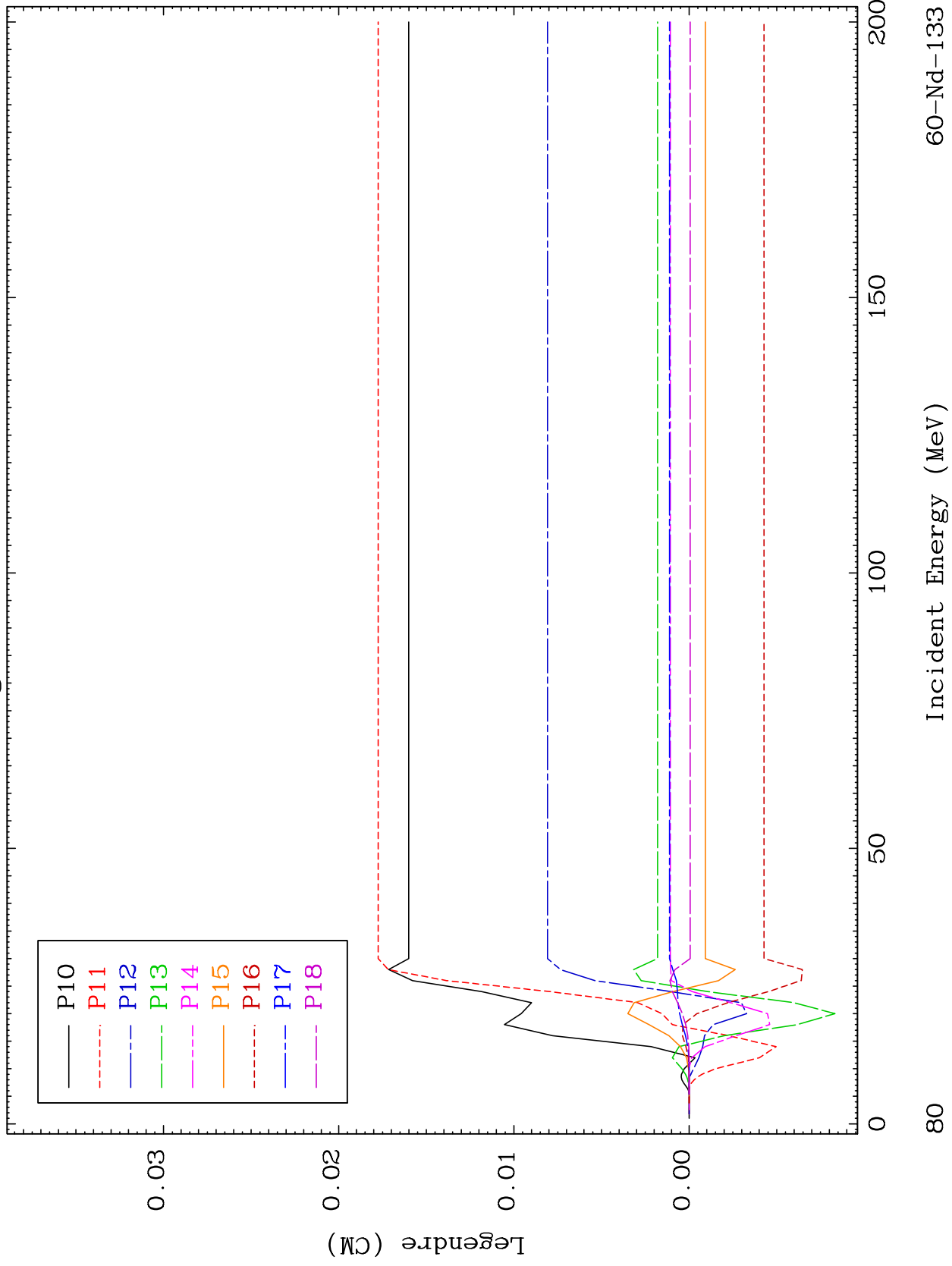




MAT 5998

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

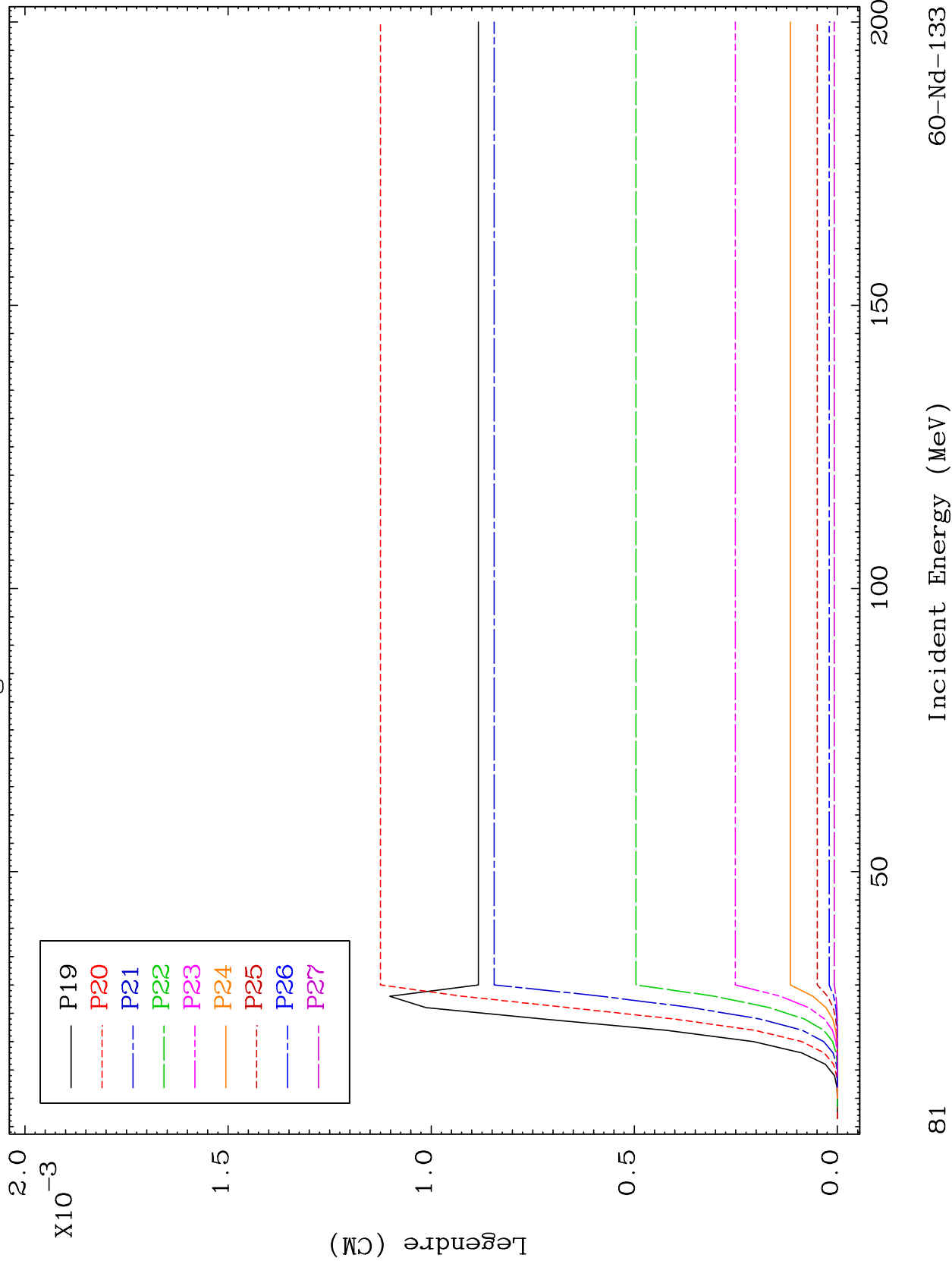
60-Nd-133



60-Nd-133

Incident Energy (MeV)

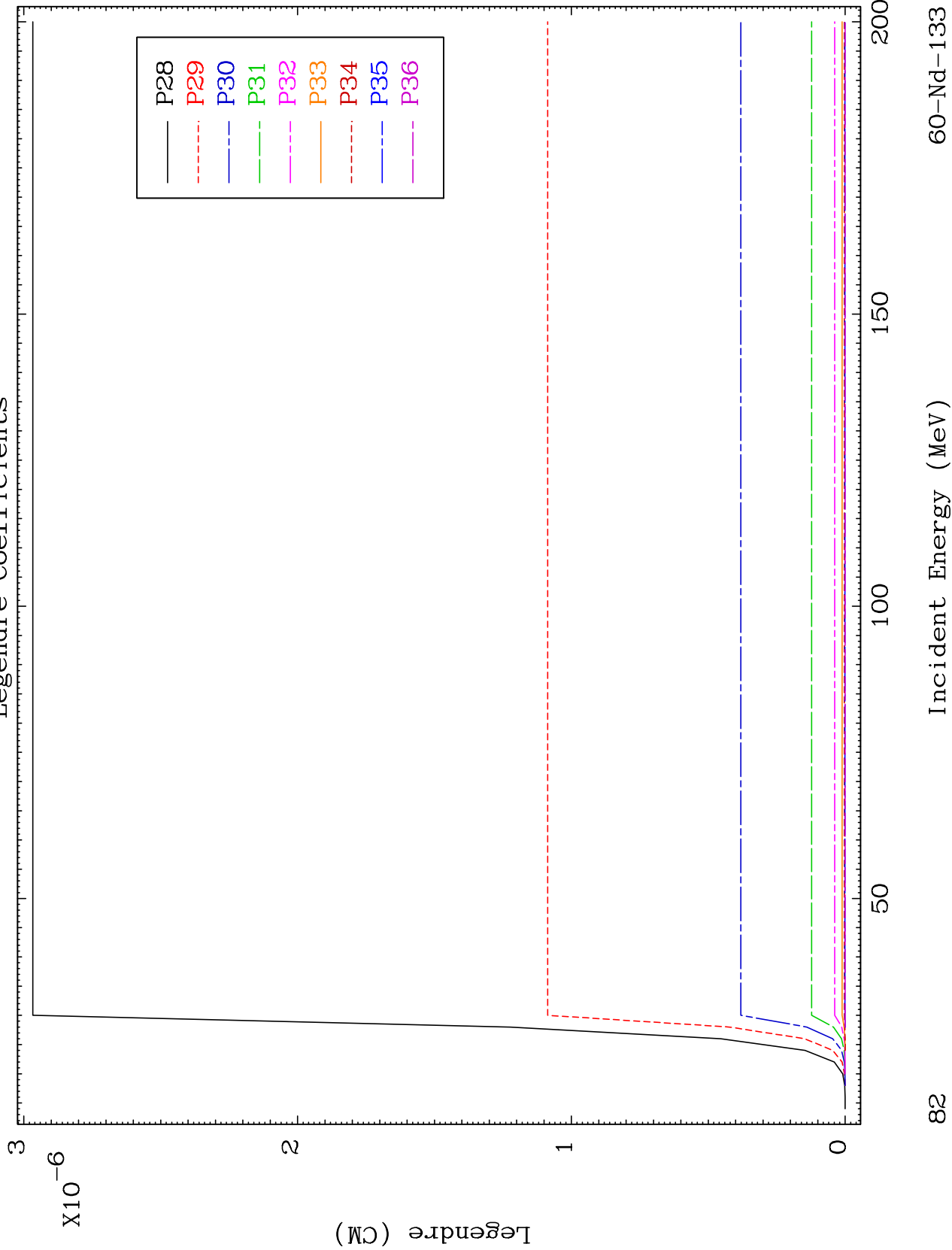
80



MAT 5998

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

60-Nd-133



82

Incident Energy (MeV)

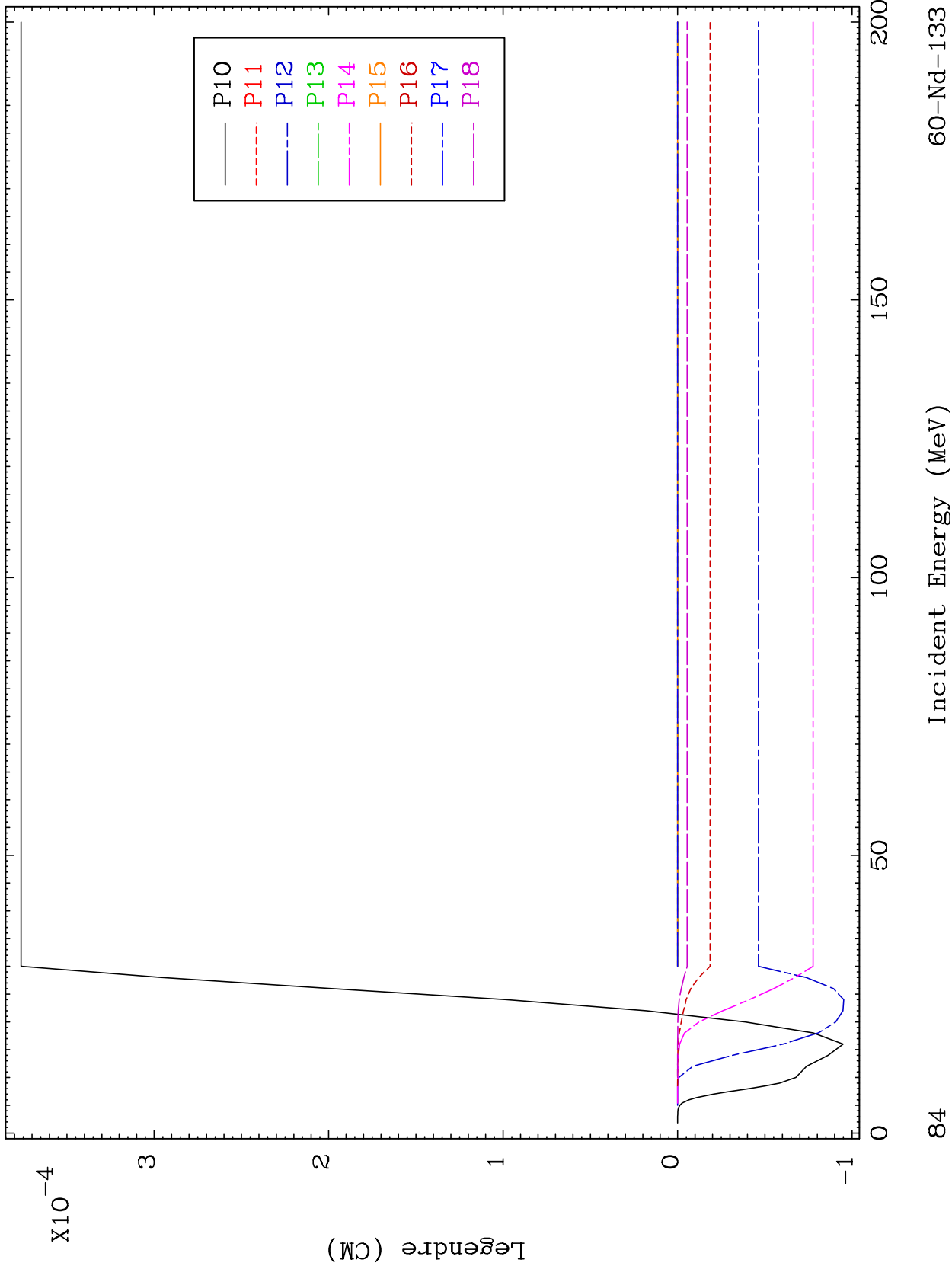
60-Nd-133



MAT 5998

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

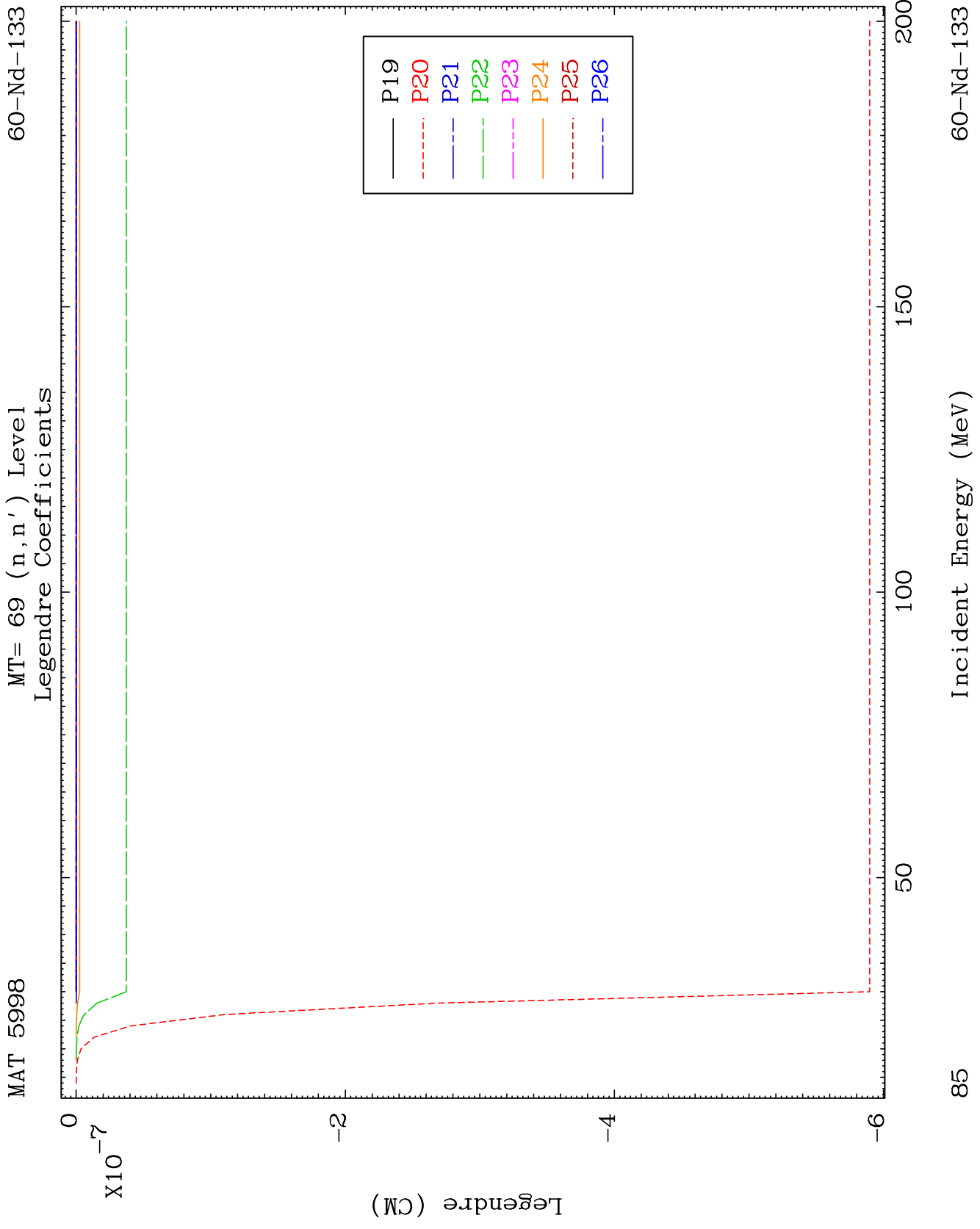
60-Nd-133



84

Incident Energy (MeV)

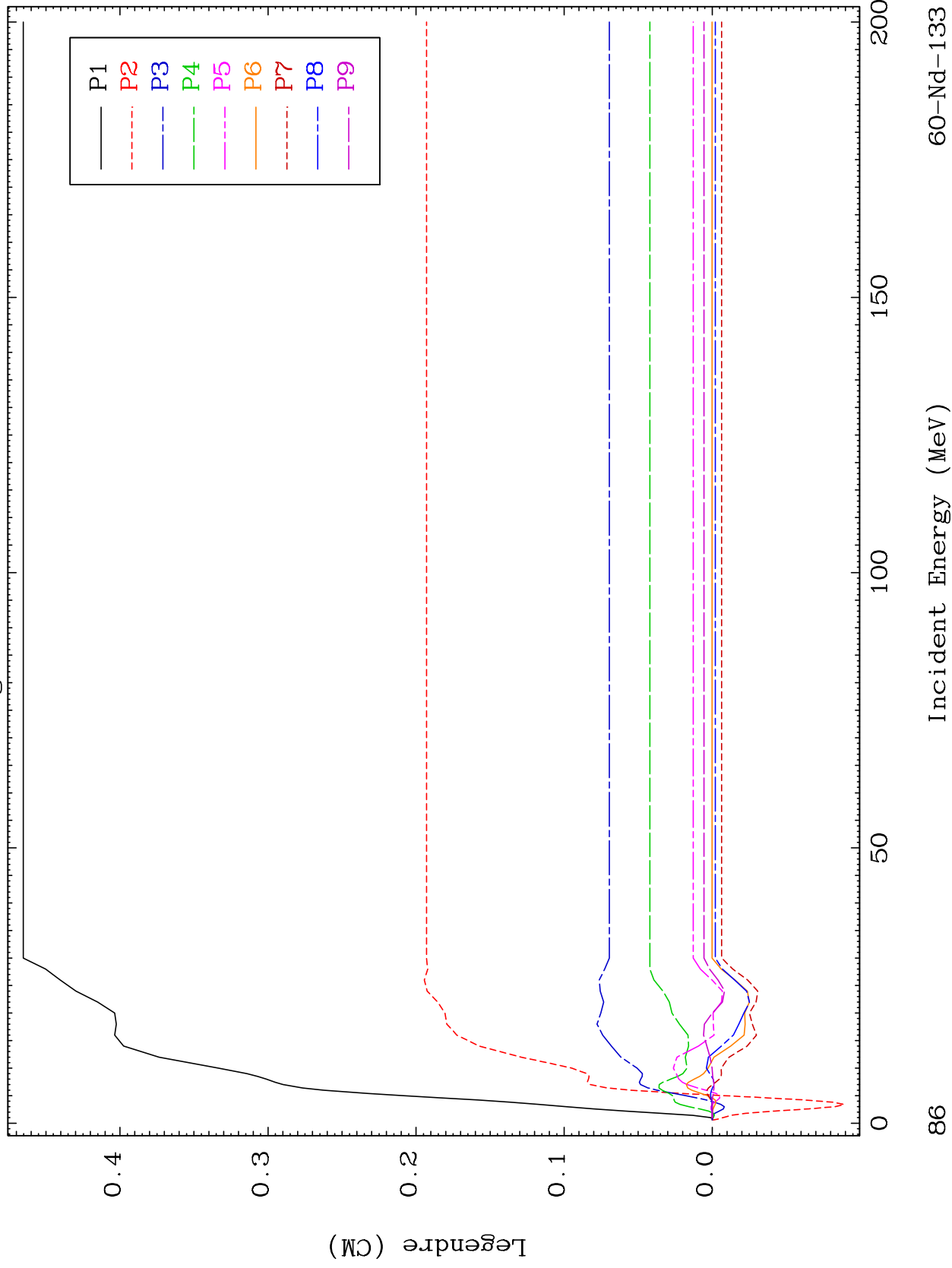
60-Nd-133



MAT 5998

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

60-Nd-133



60-Nd-133

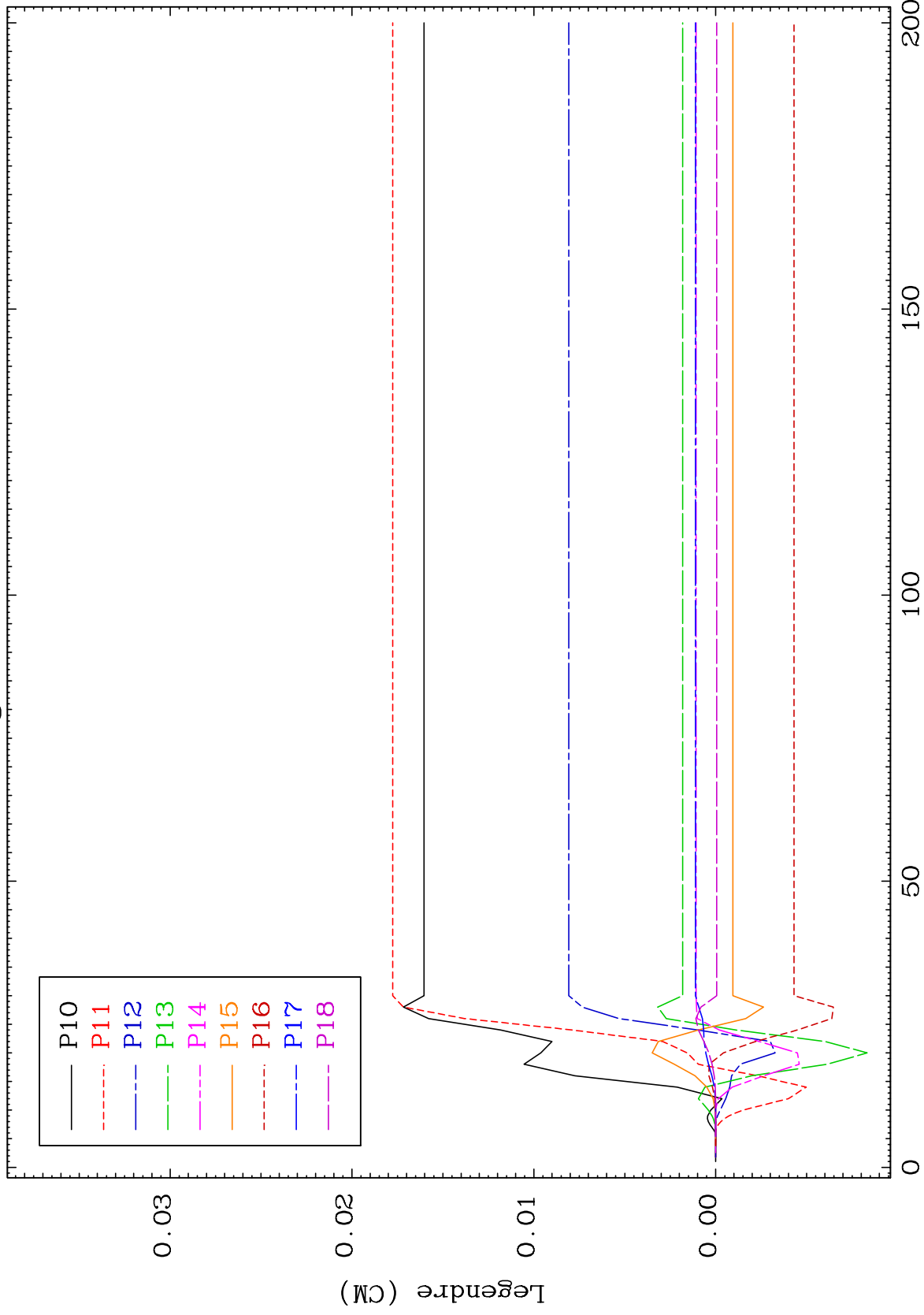
Incident Energy (MeV)

86

MAT 5998

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

60-Nd-133

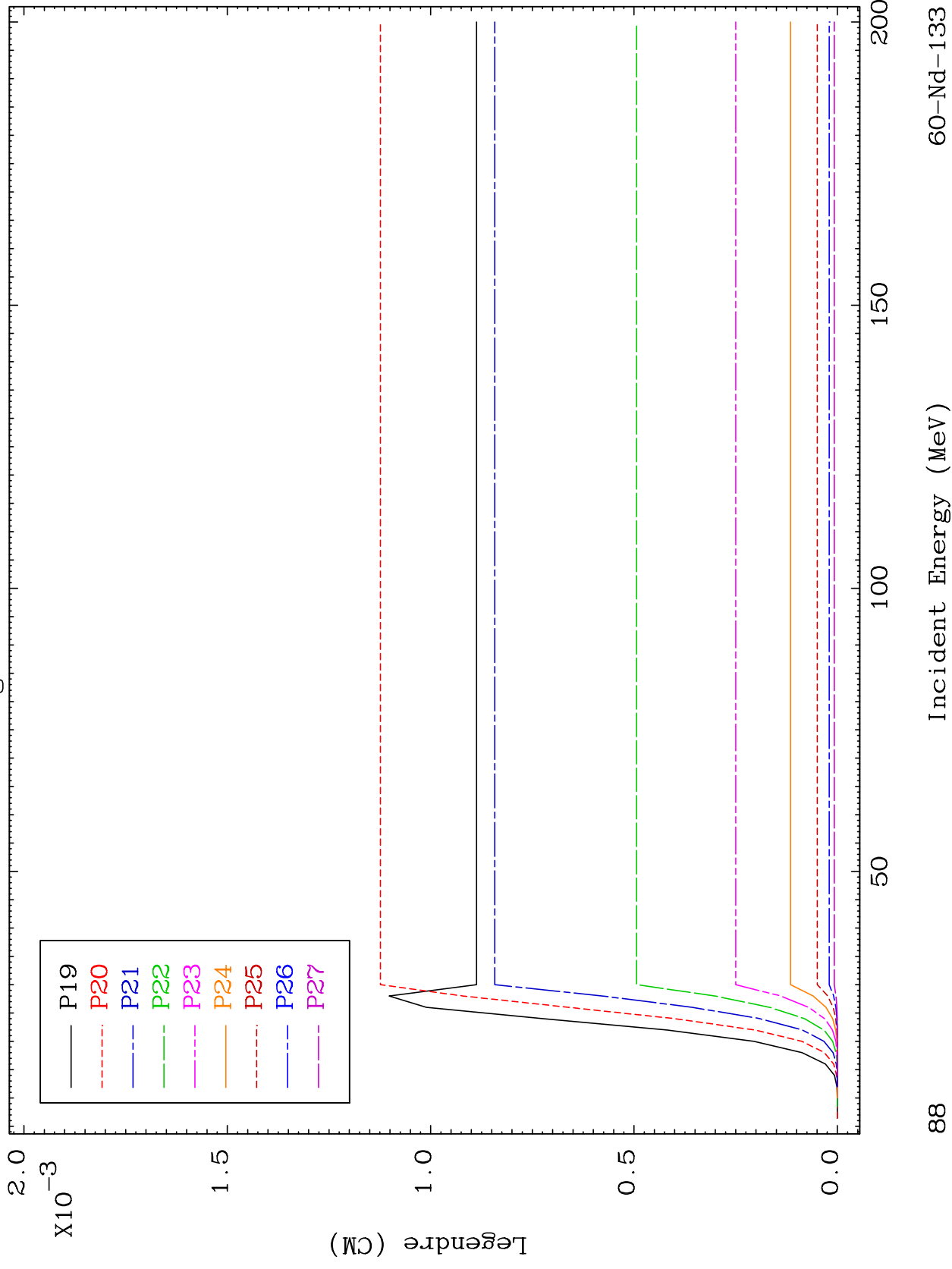


87

Incident Energy (MeV)

60-Nd-133

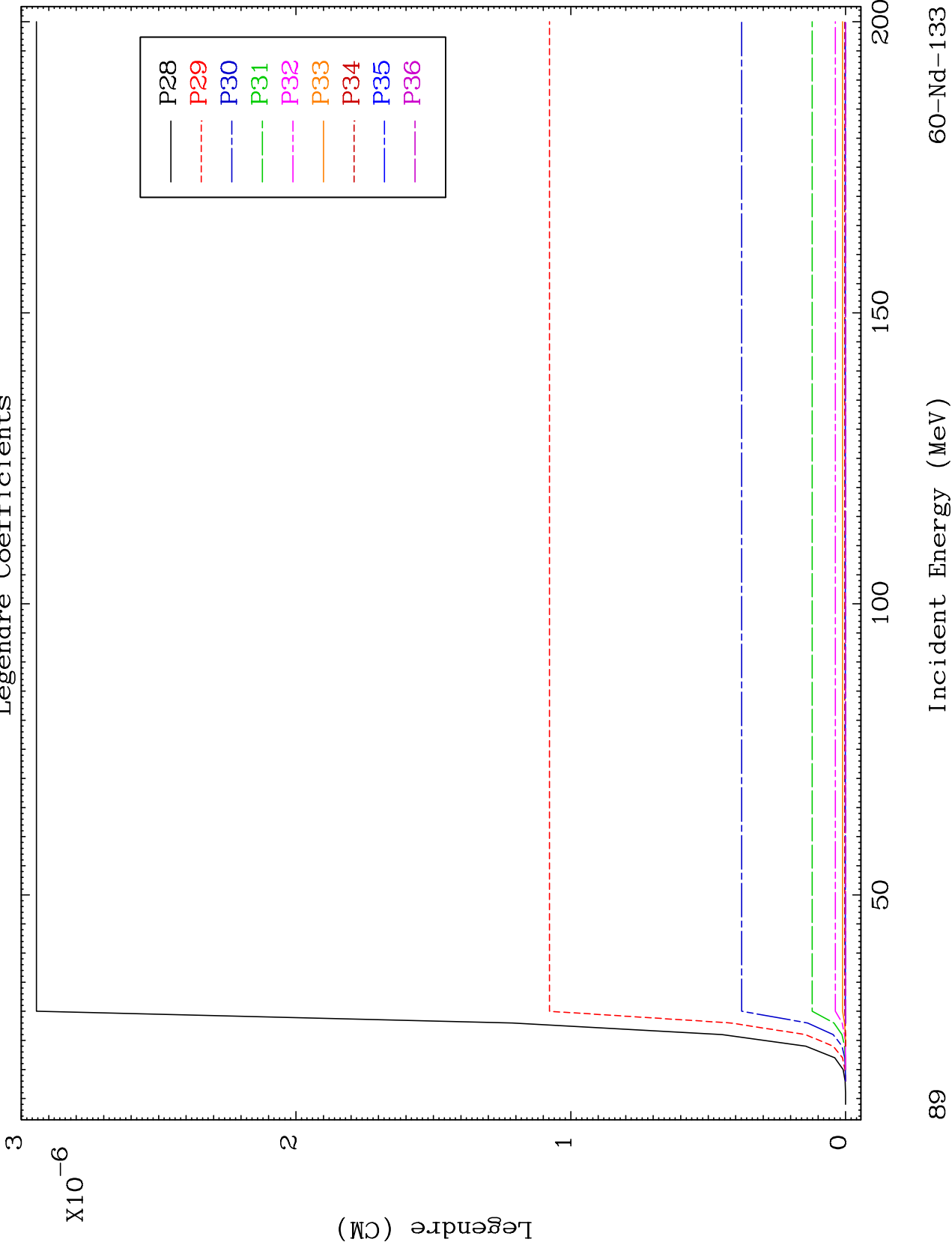




MAT 5998

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

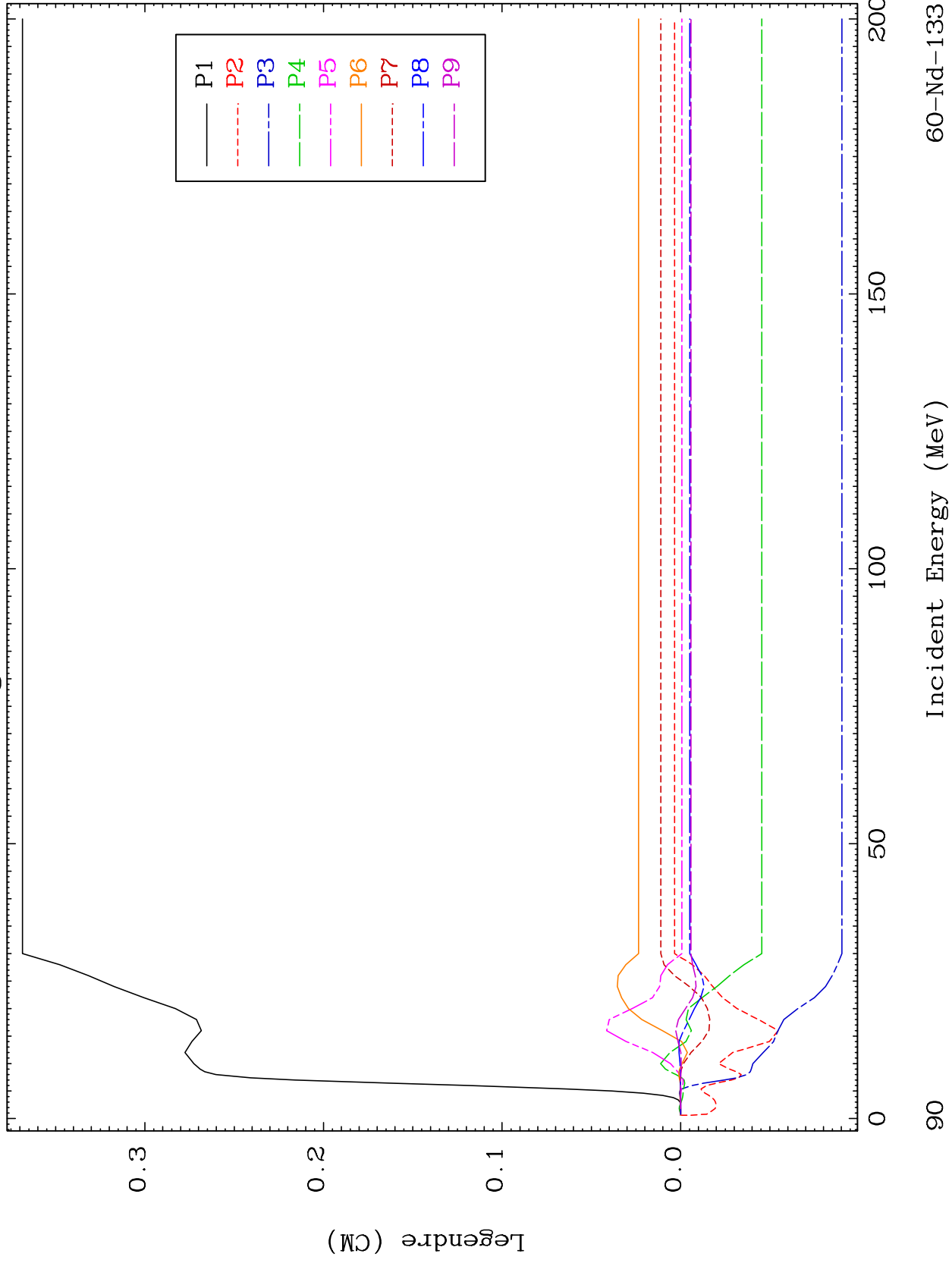
60-Nd-133



MAT 5998

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

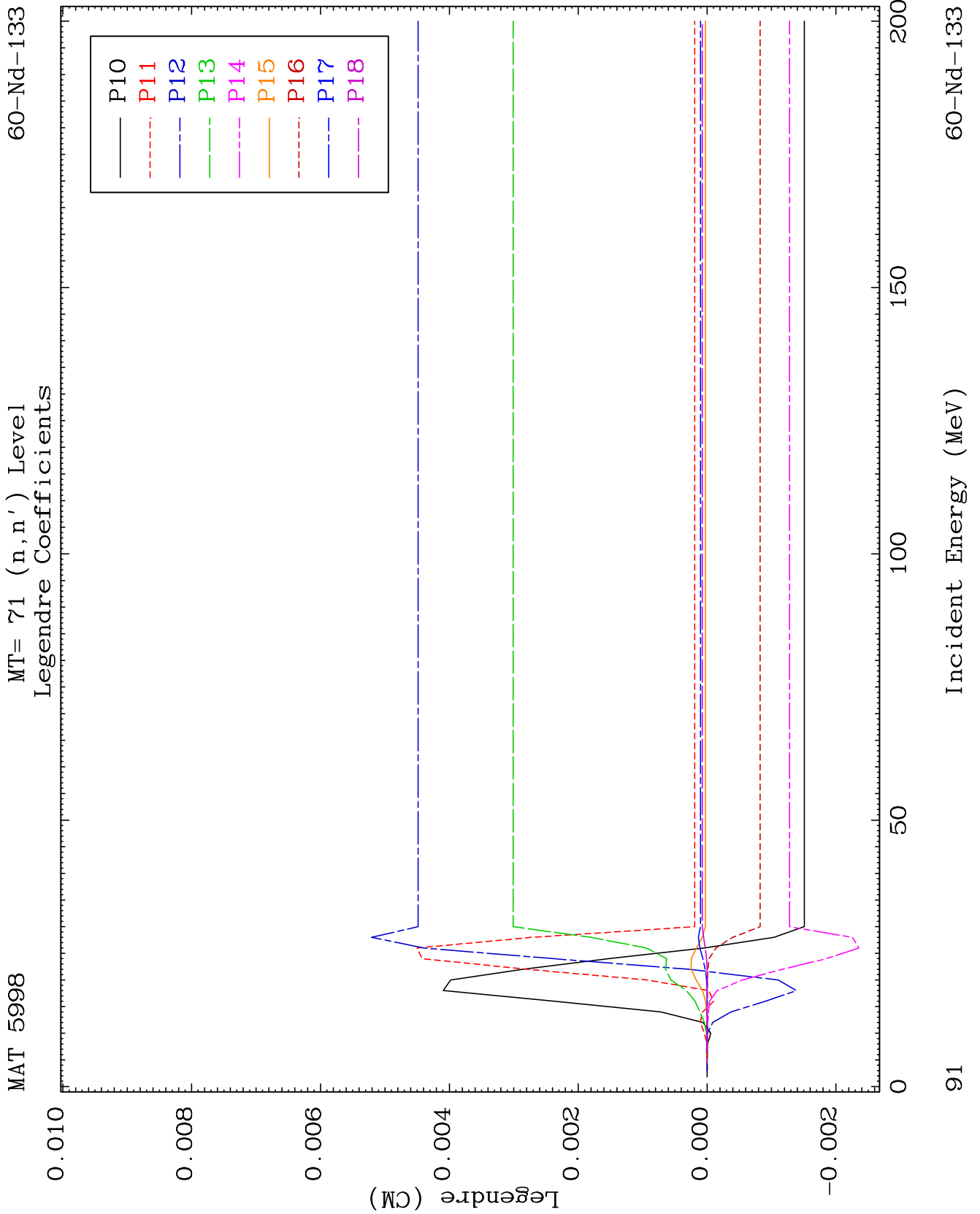
60-Nd-133



60-Nd-133

Incident Energy (MeV)

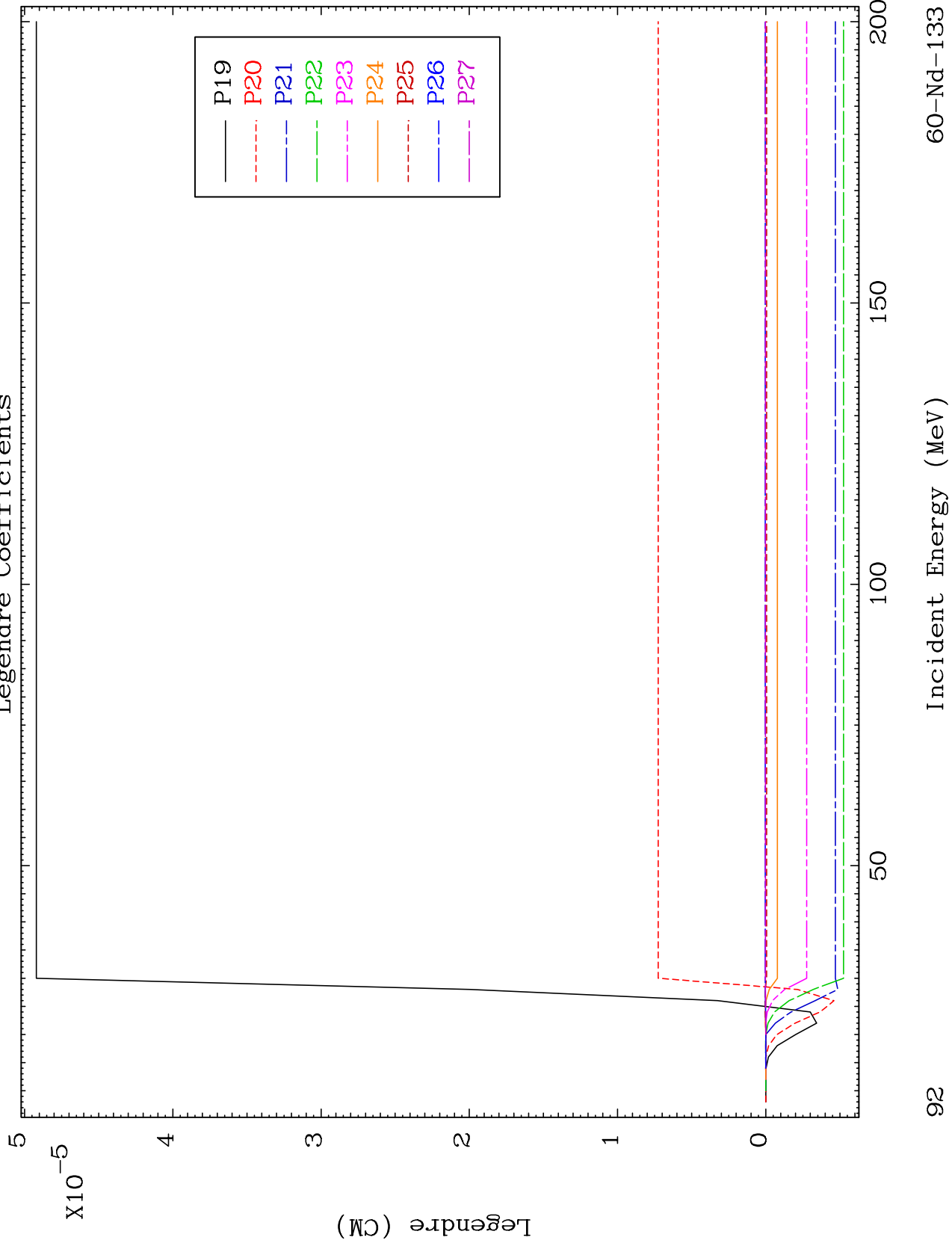
90



MAT 5998

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

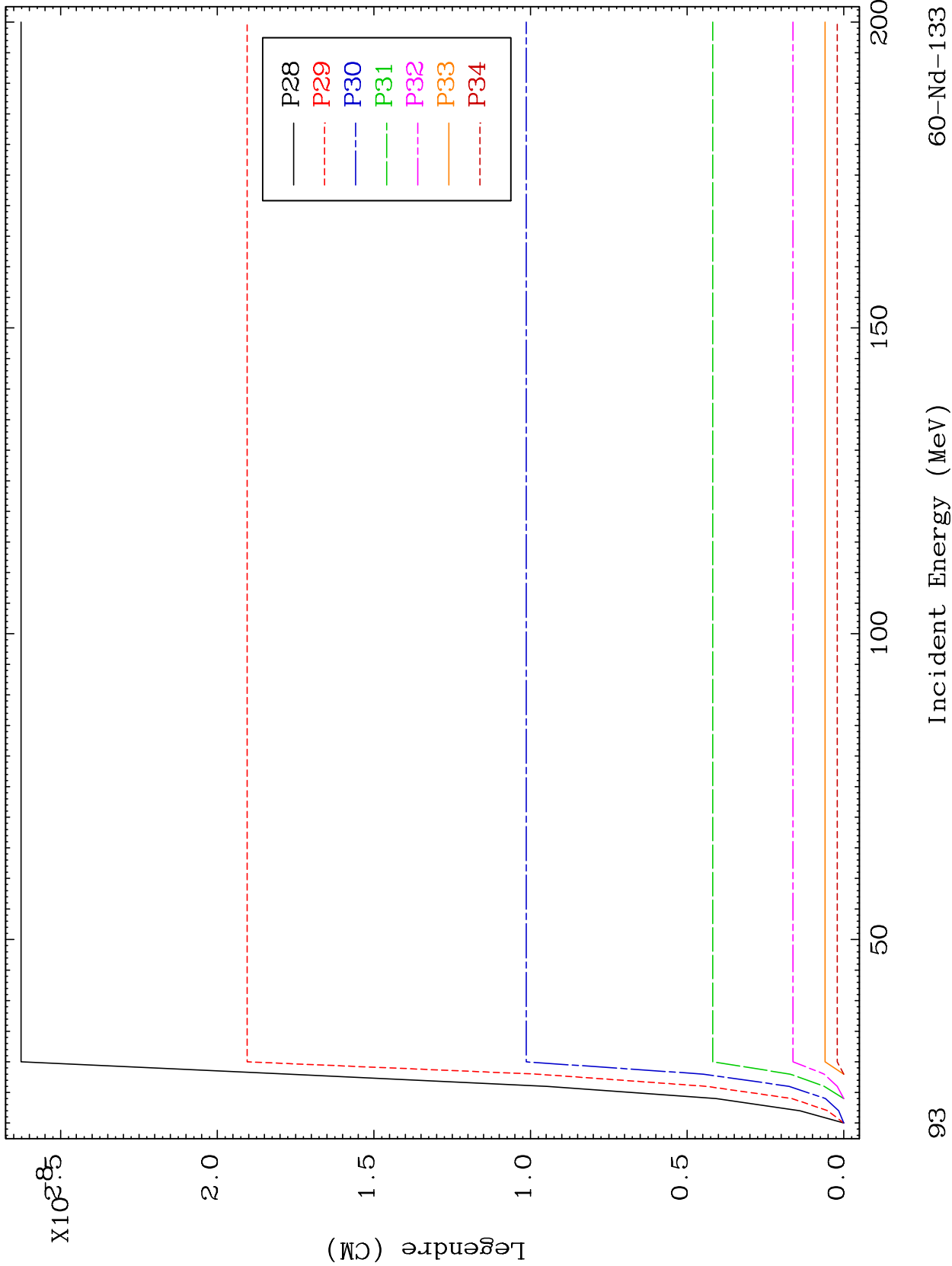
60-Nd-133



92

Incident Energy (MeV)

60-Nd-133

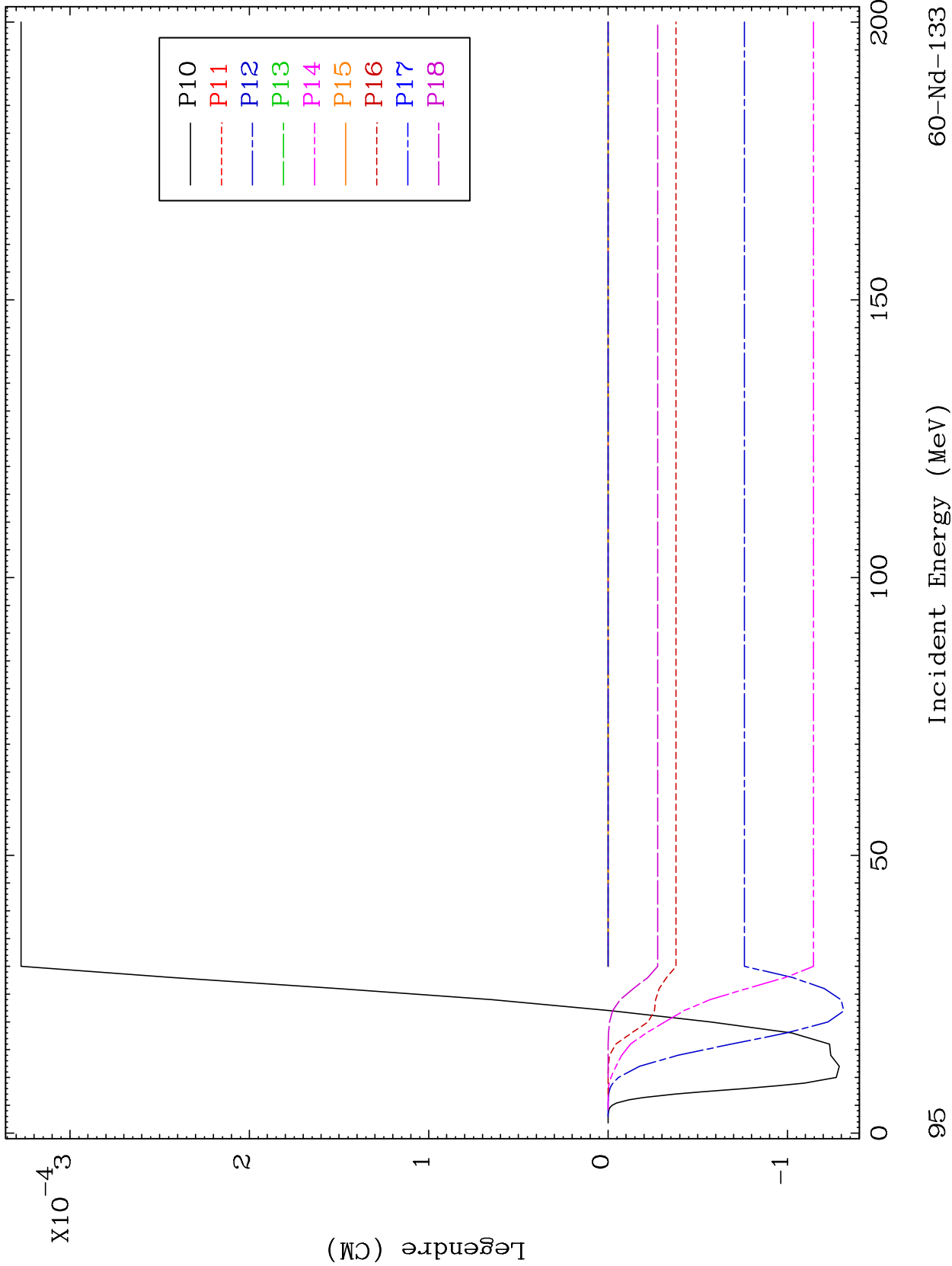




MAT 5998

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

60-Nd-133

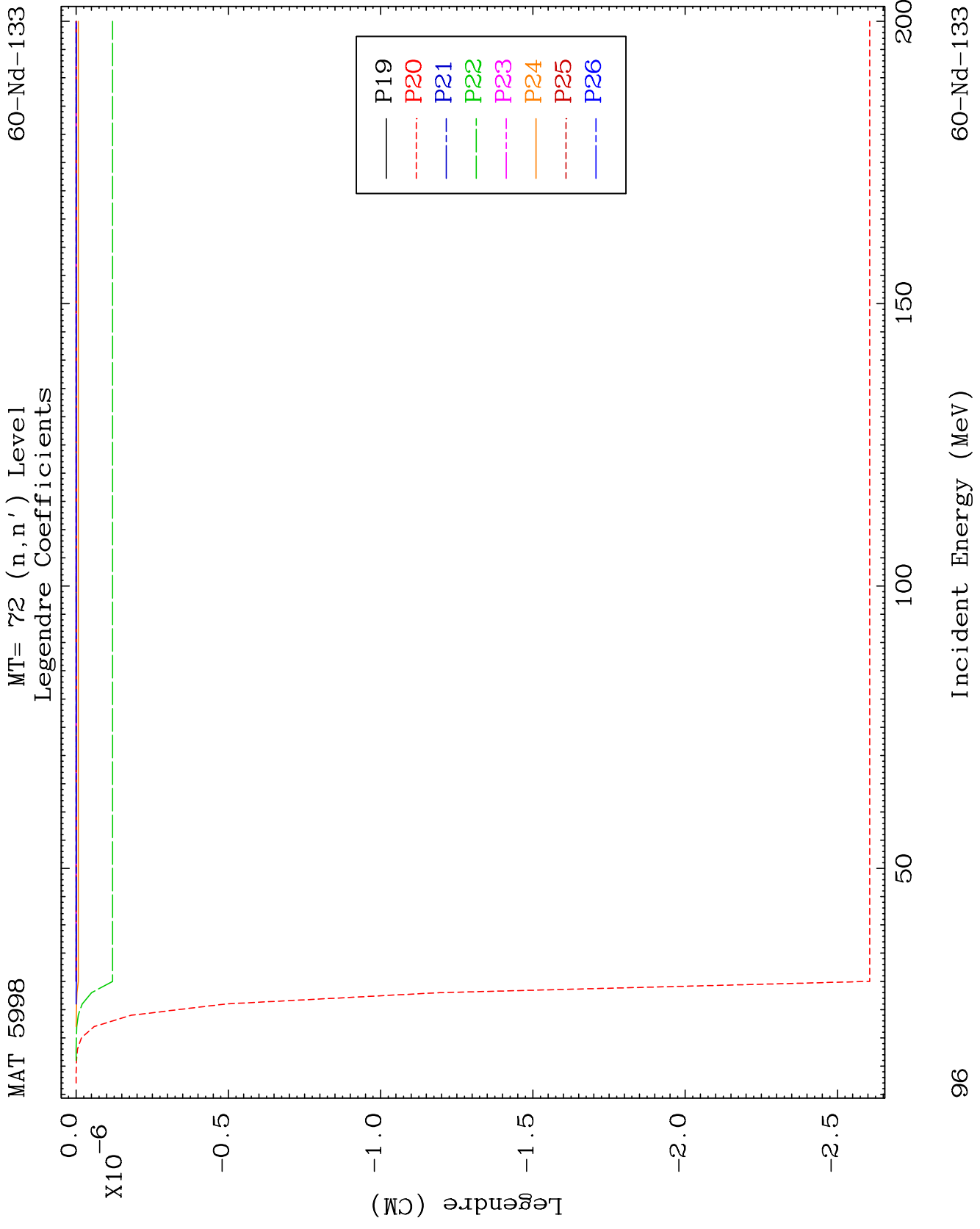


60-Nd-133

Incident Energy (MeV)

95

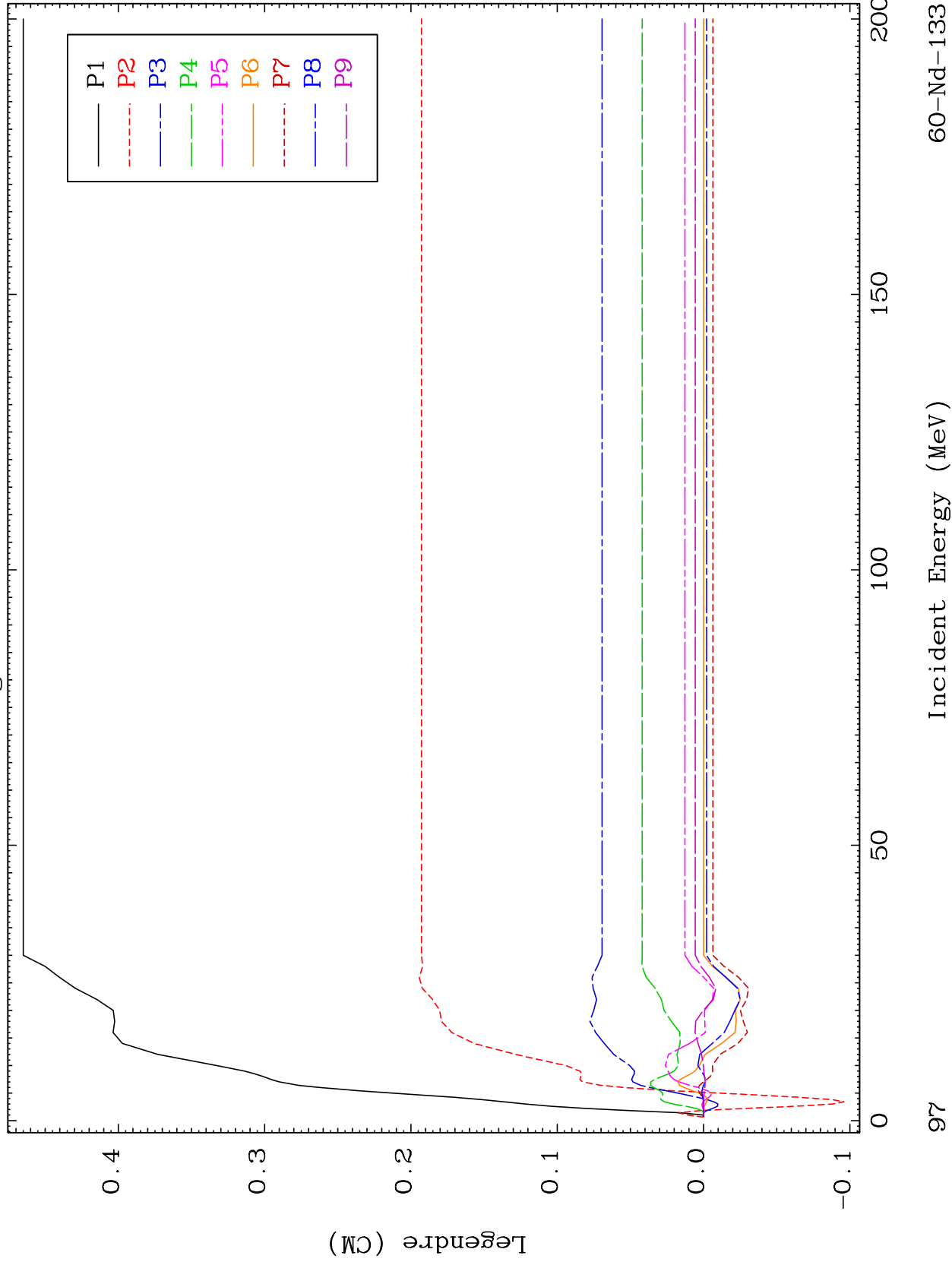




MAT 5998

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

60-Nd-133



60-Nd-133

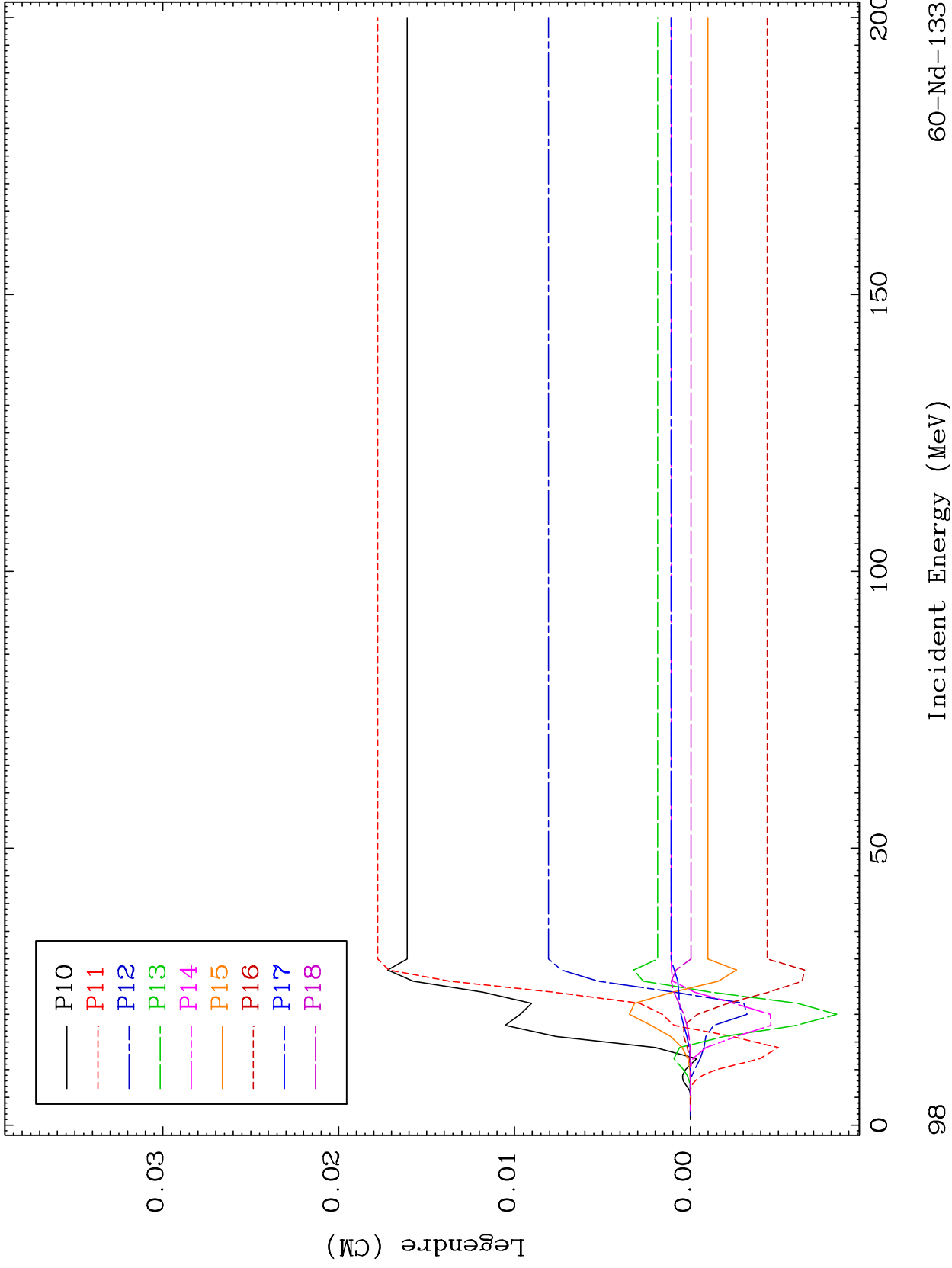
Incident Energy (MeV)

97

MAT 5998

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

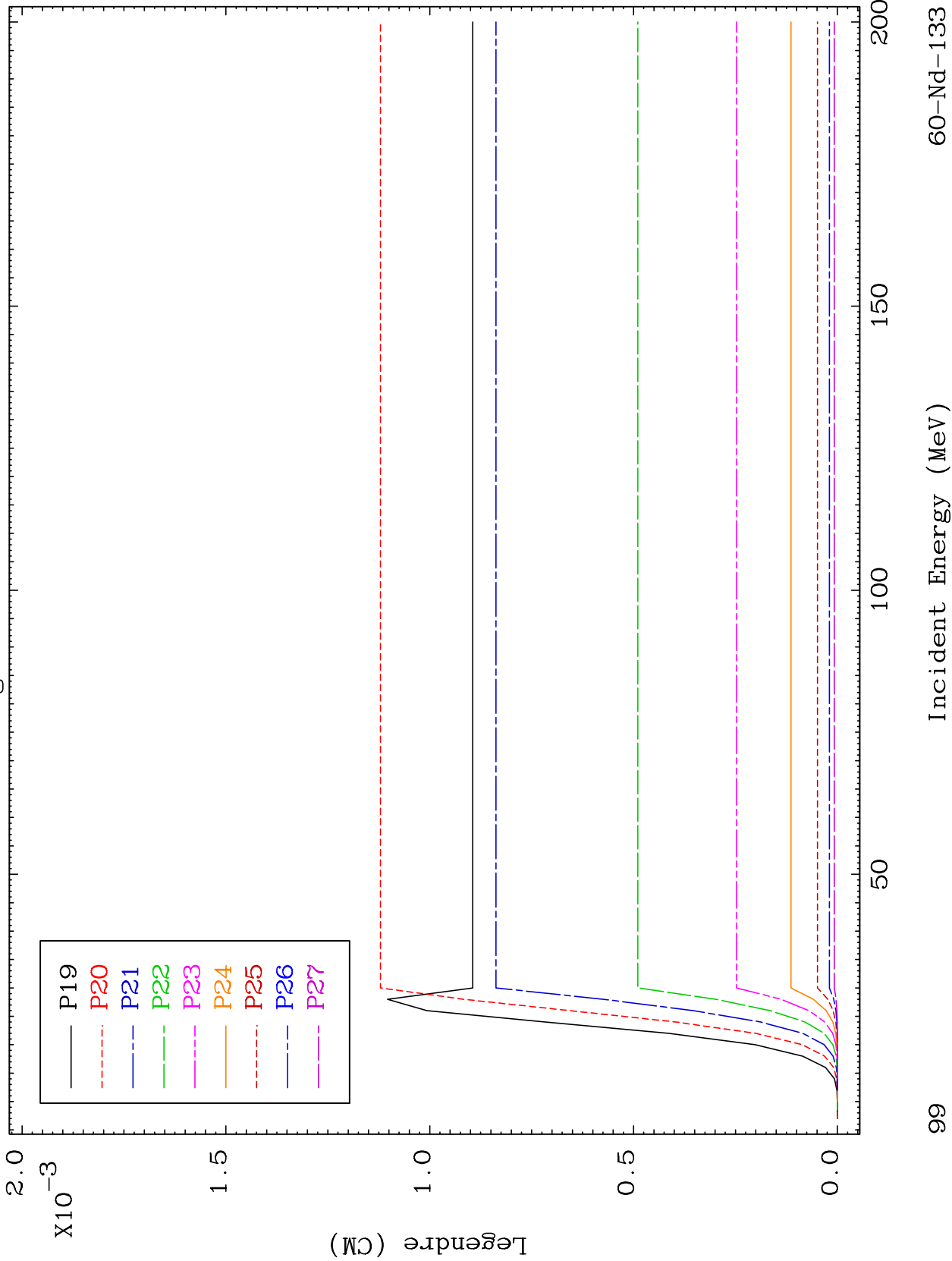
60-Nd-133



98

Incident Energy (MeV)

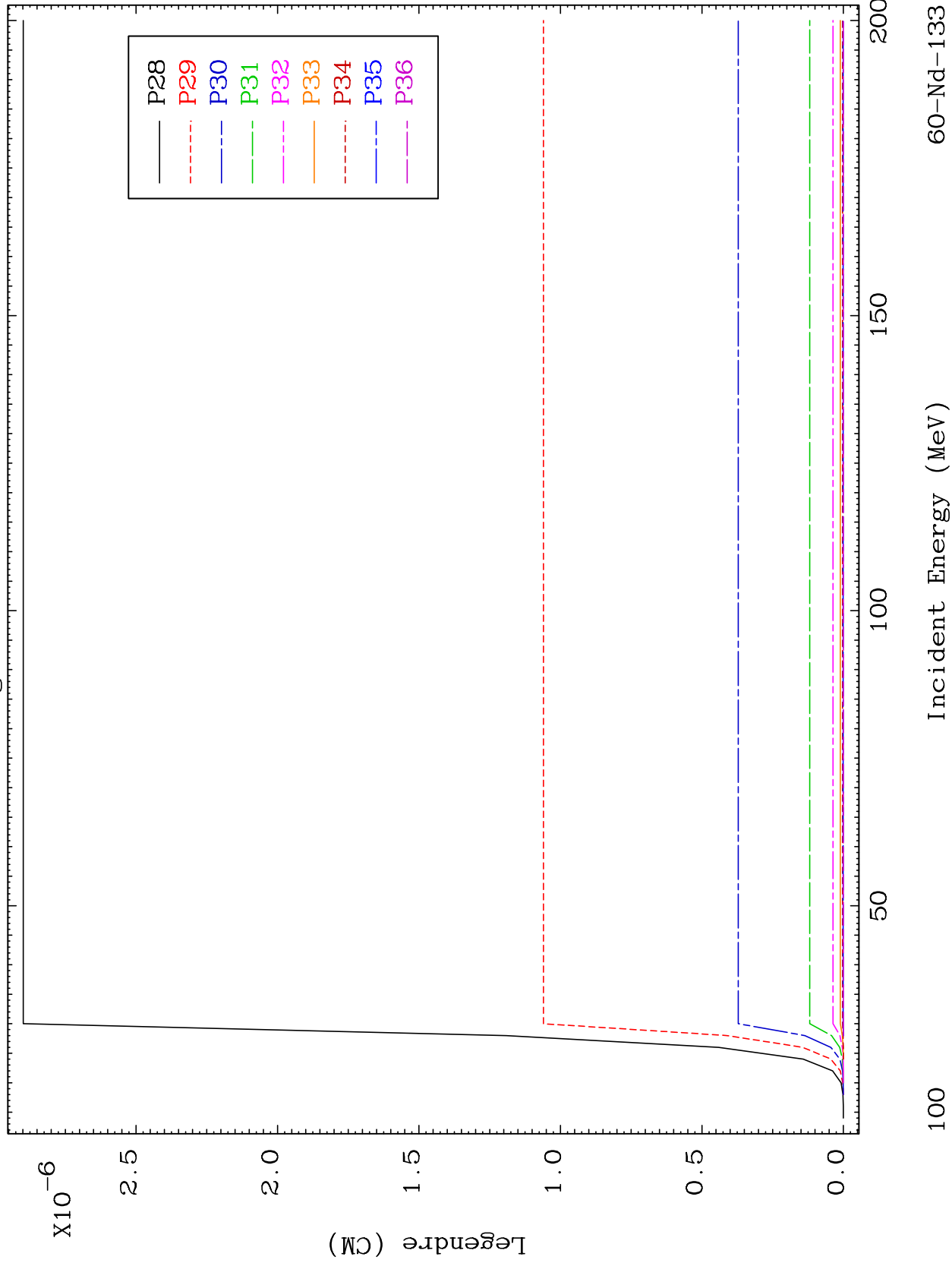
60-Nd-133



MAT 5998

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

60-Nd-133

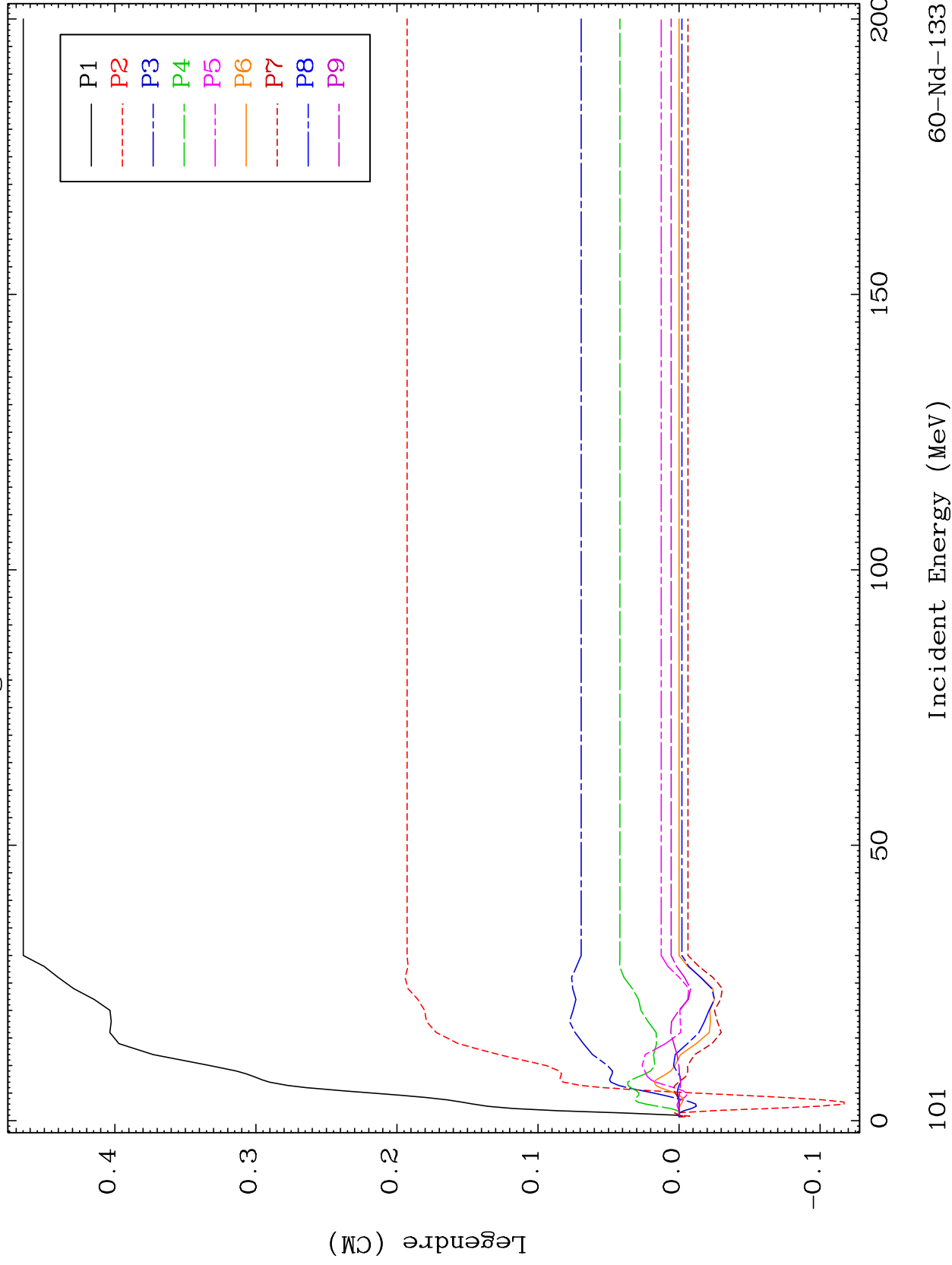


60-Nd-133

MAT 5998

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

60-Nd-133



60-Nd-133

Incident Energy (MeV)

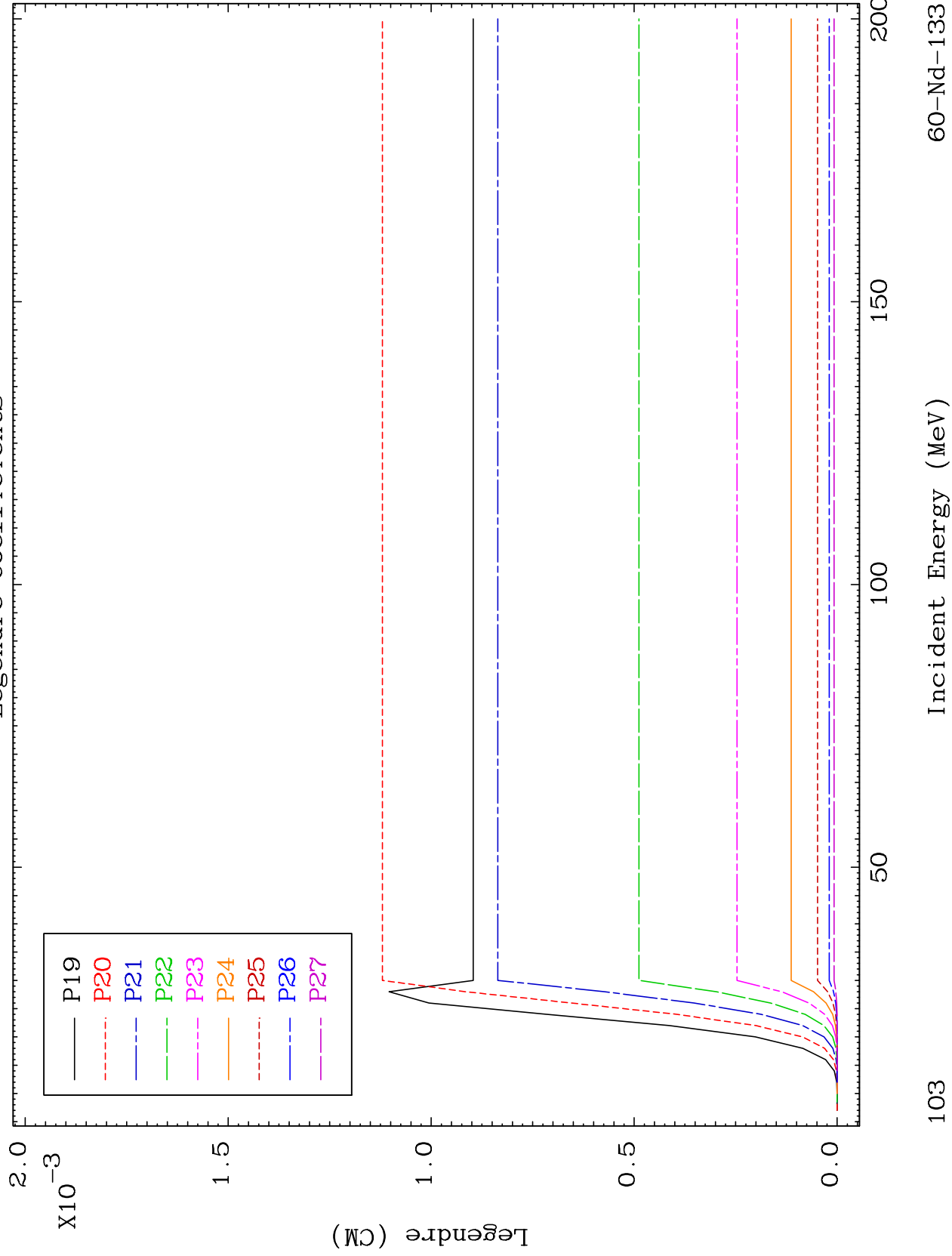
101



MAT 5998

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

60-Nd-133



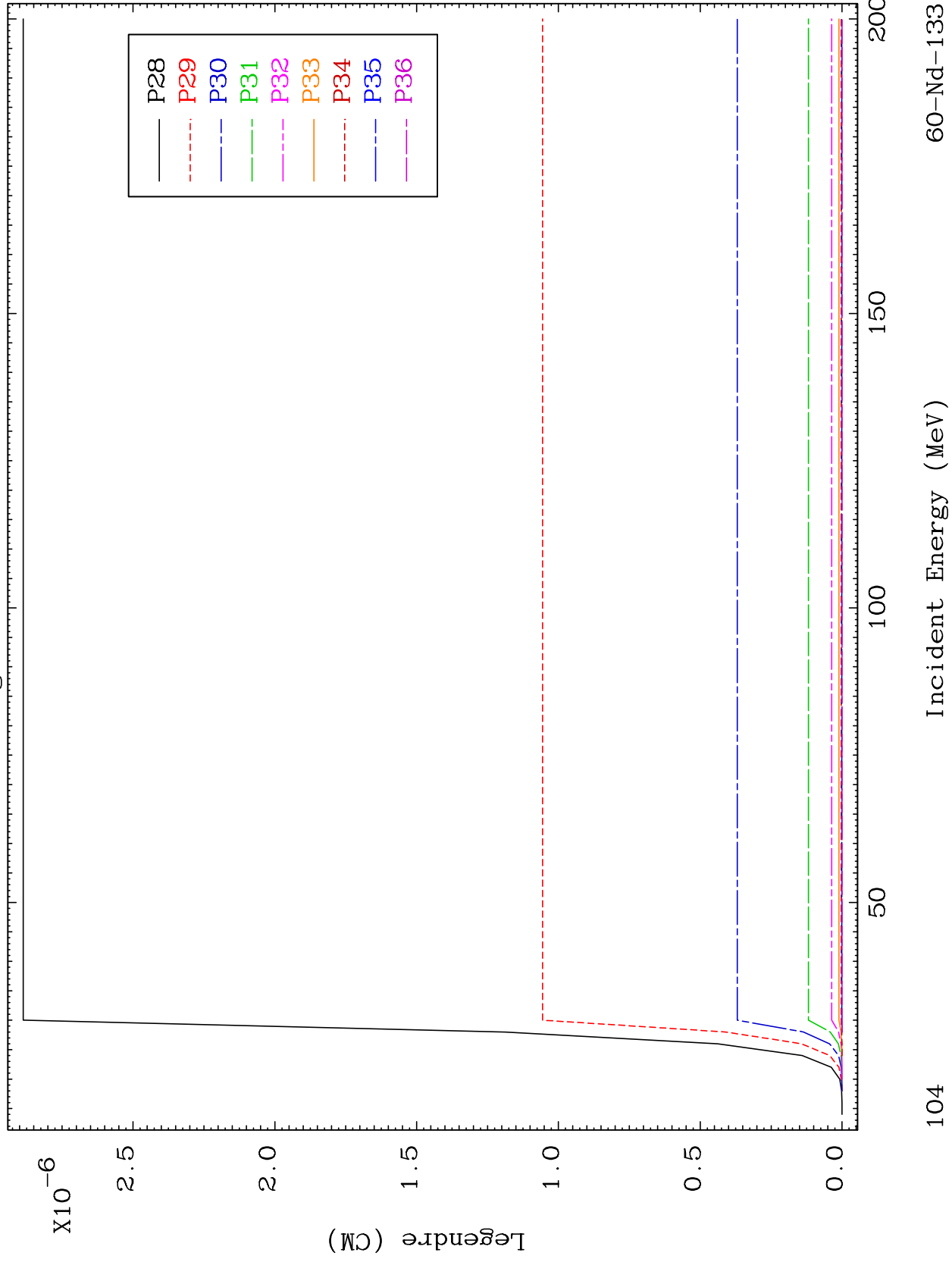
103



MAT 5998

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

60-Nd-133

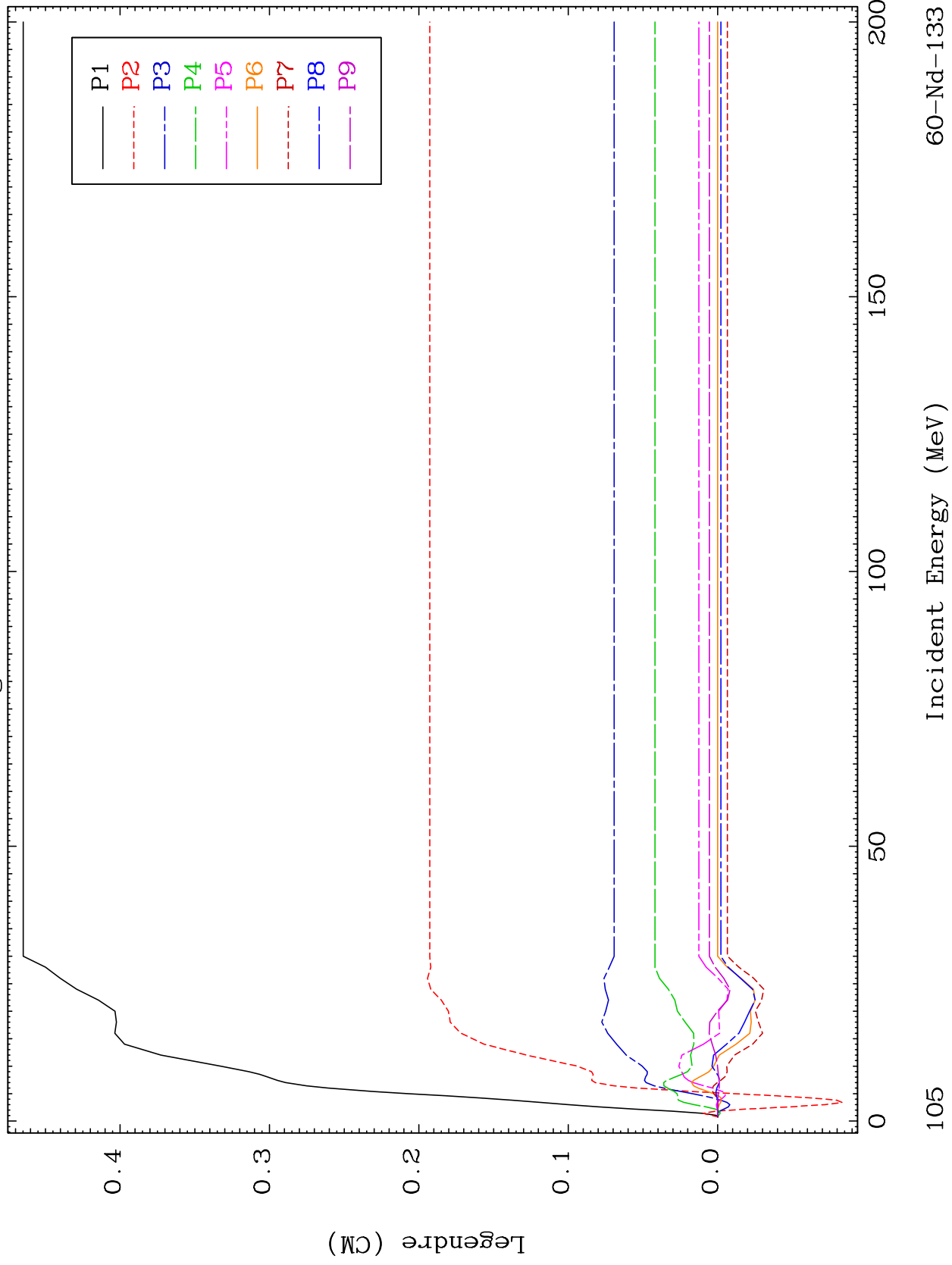


104

MAT 5998

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

60-Nd-133



60-Nd-133

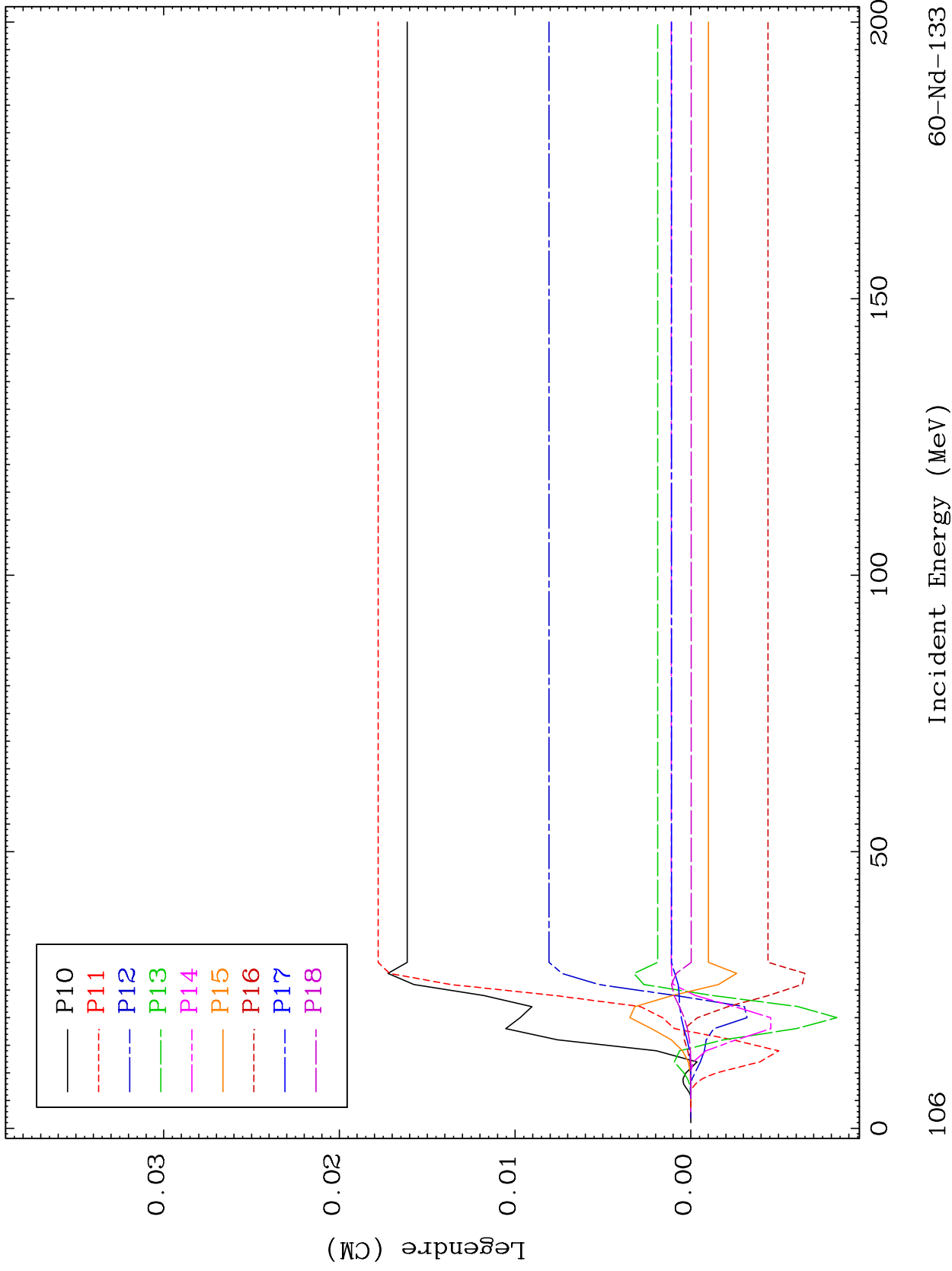
Incident Energy (MeV)

0

MAT 5998

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

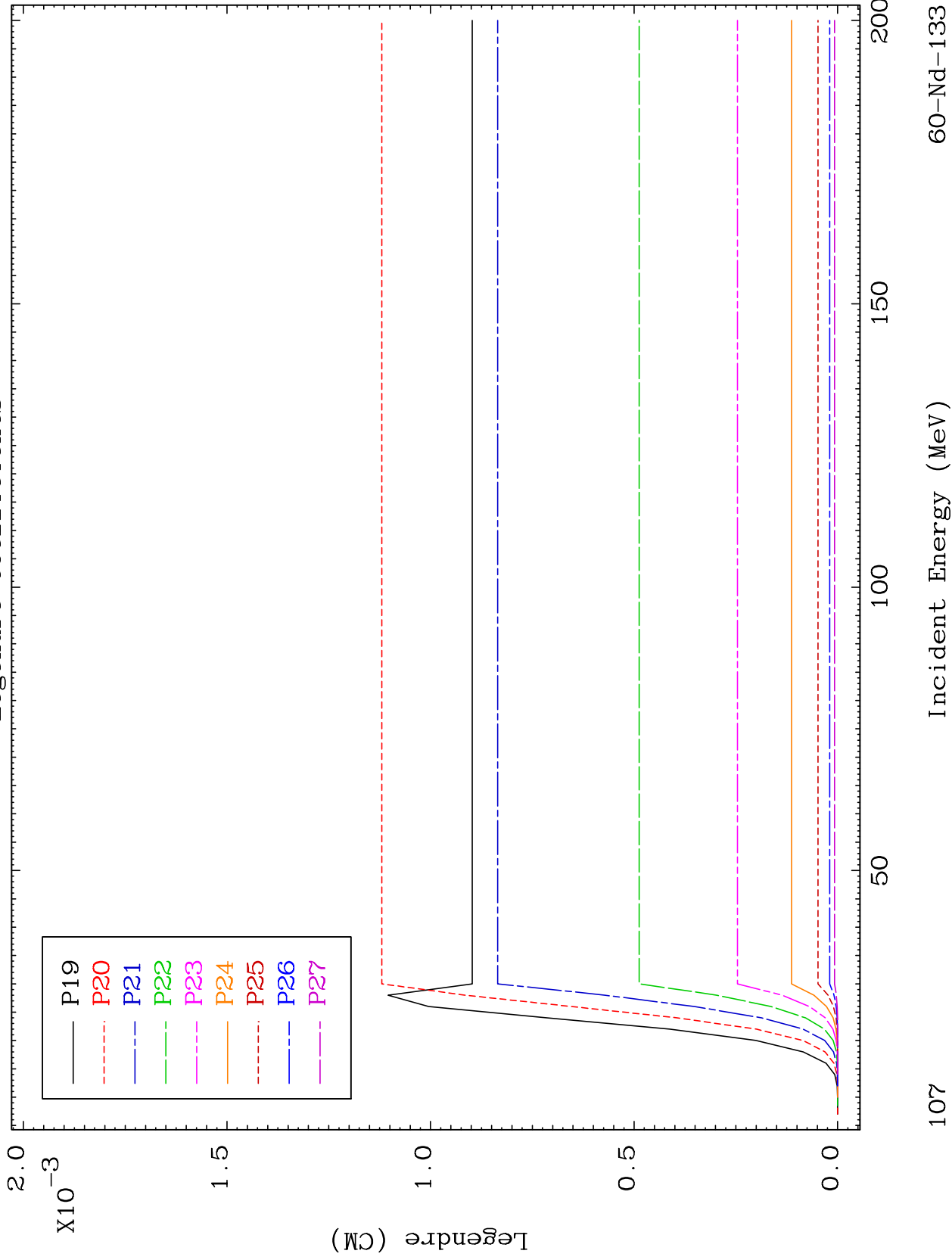
60-Nd-133



MAT 5998

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

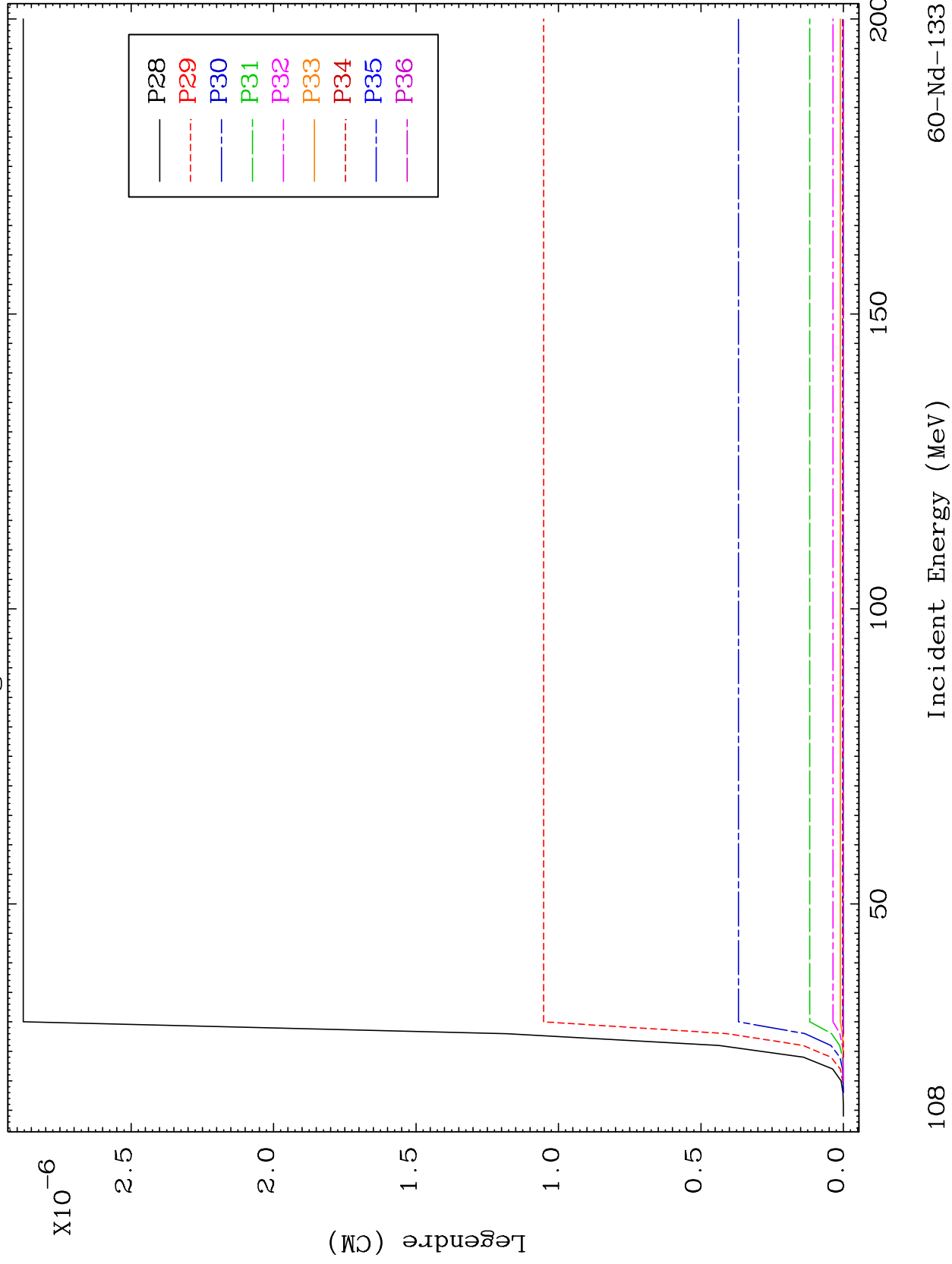
60-Nd-133



MAT 5998

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

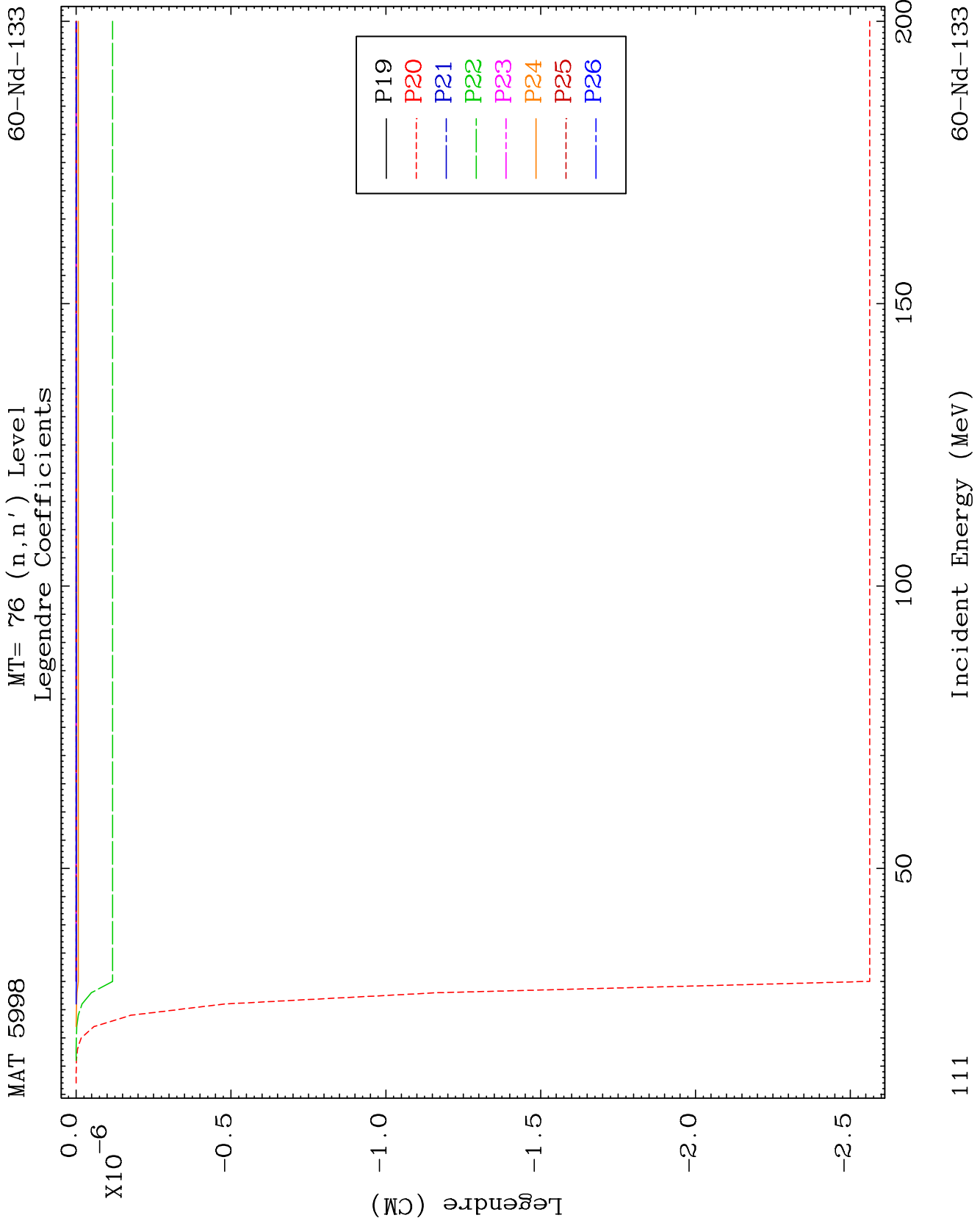
60-Nd-133



108







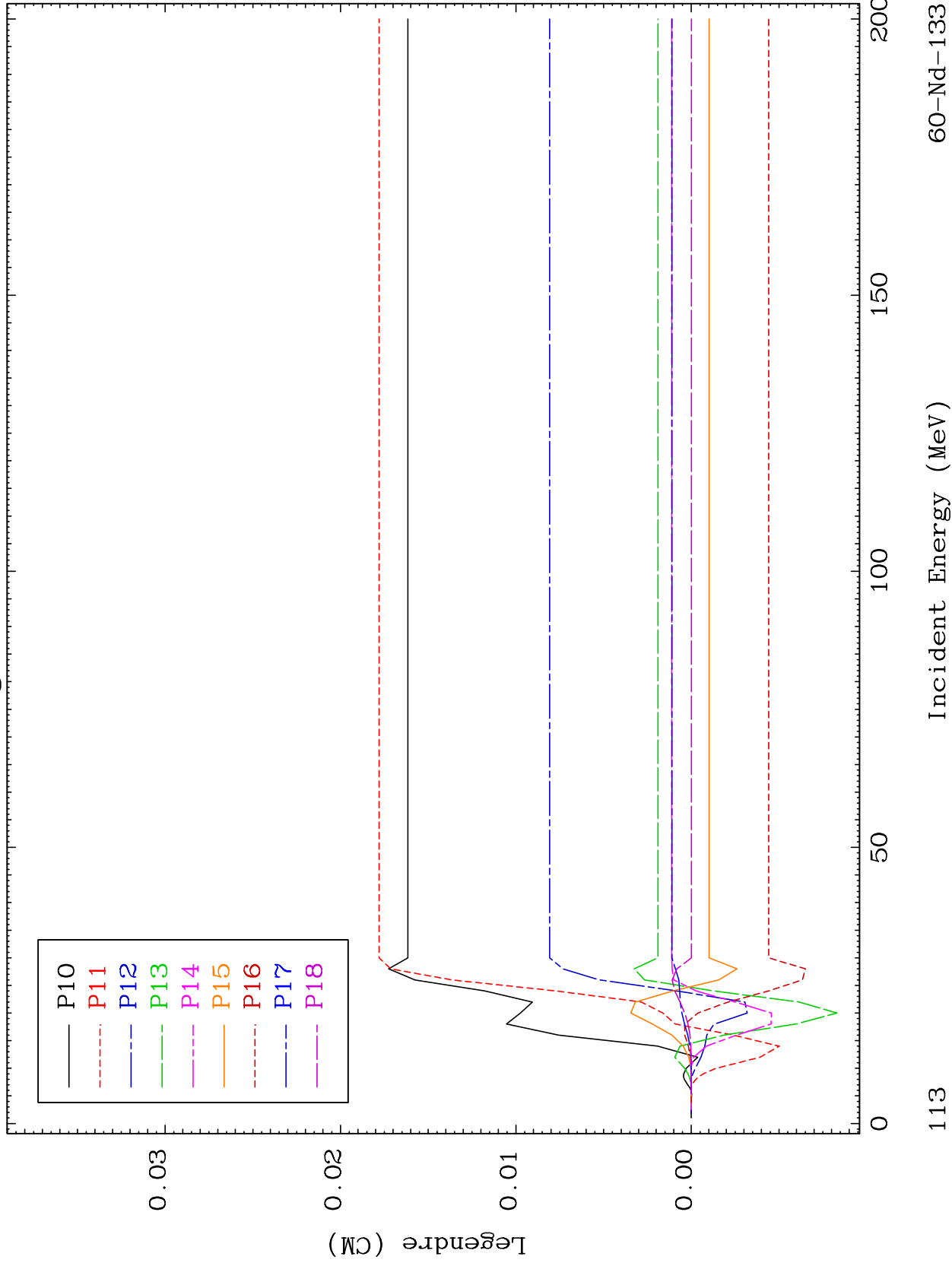




MAT 5998

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

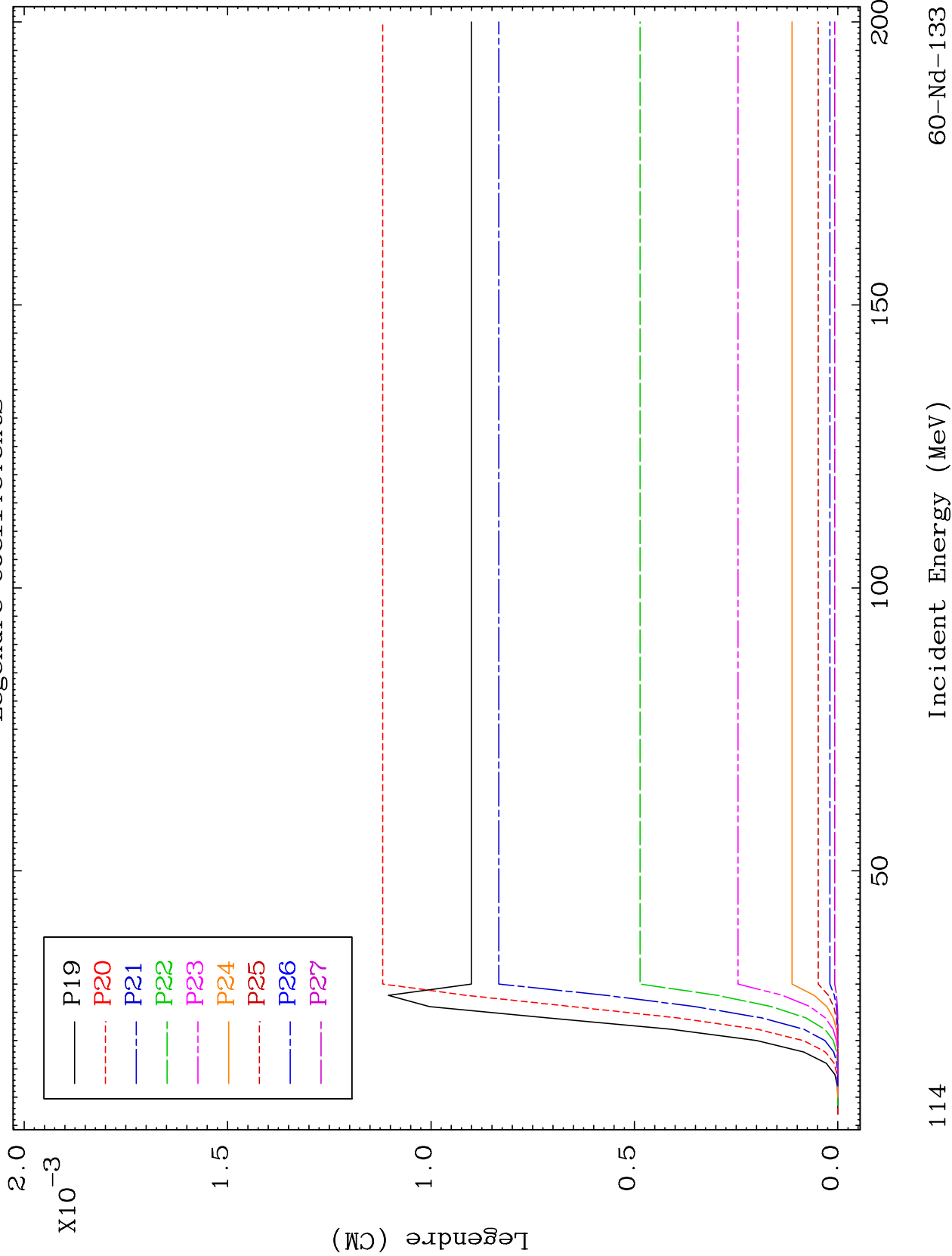
60-Nd-133



60-Nd-133

Incident Energy (MeV)

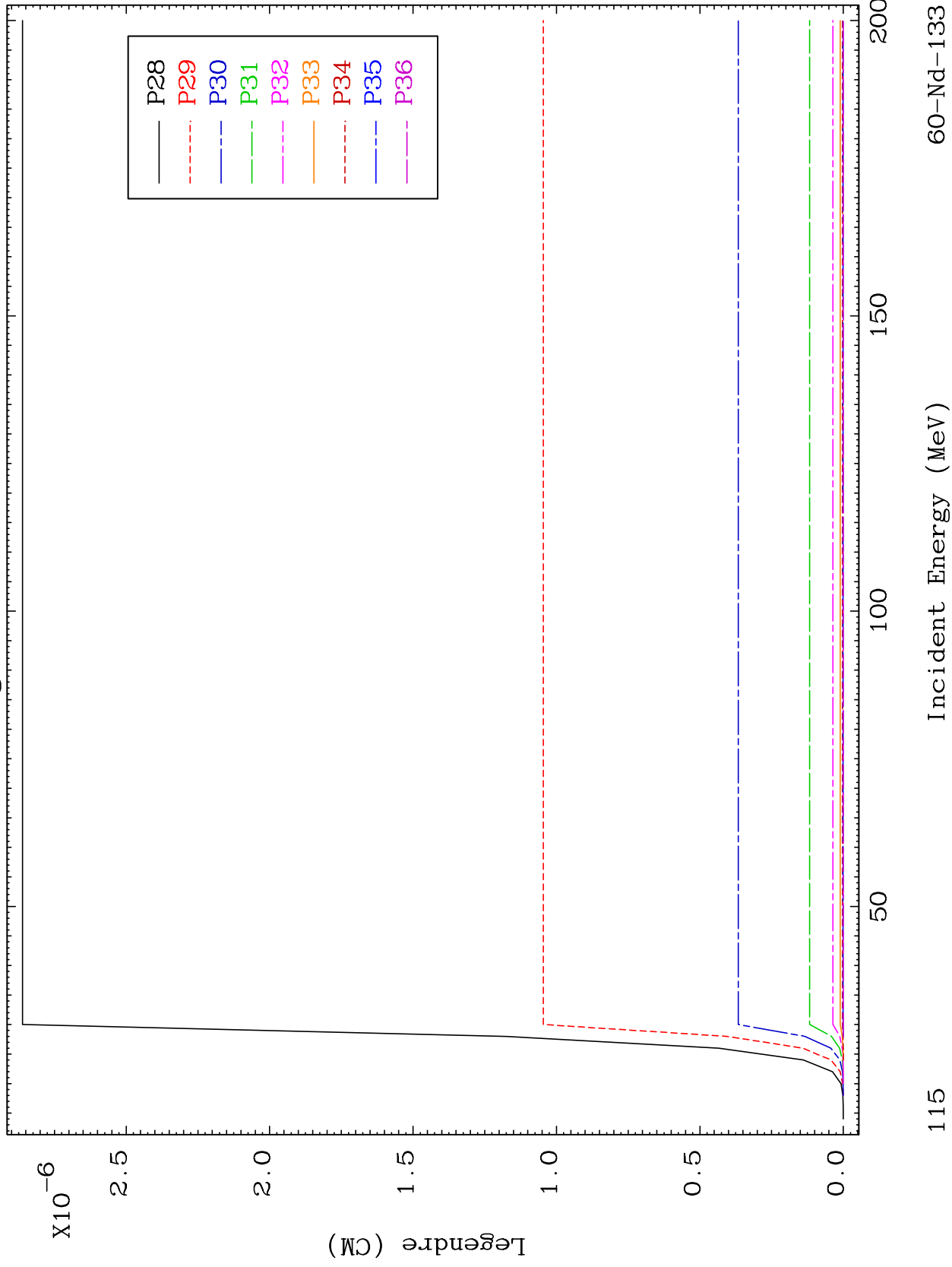
113



MAT 5998

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

60-Nd-133

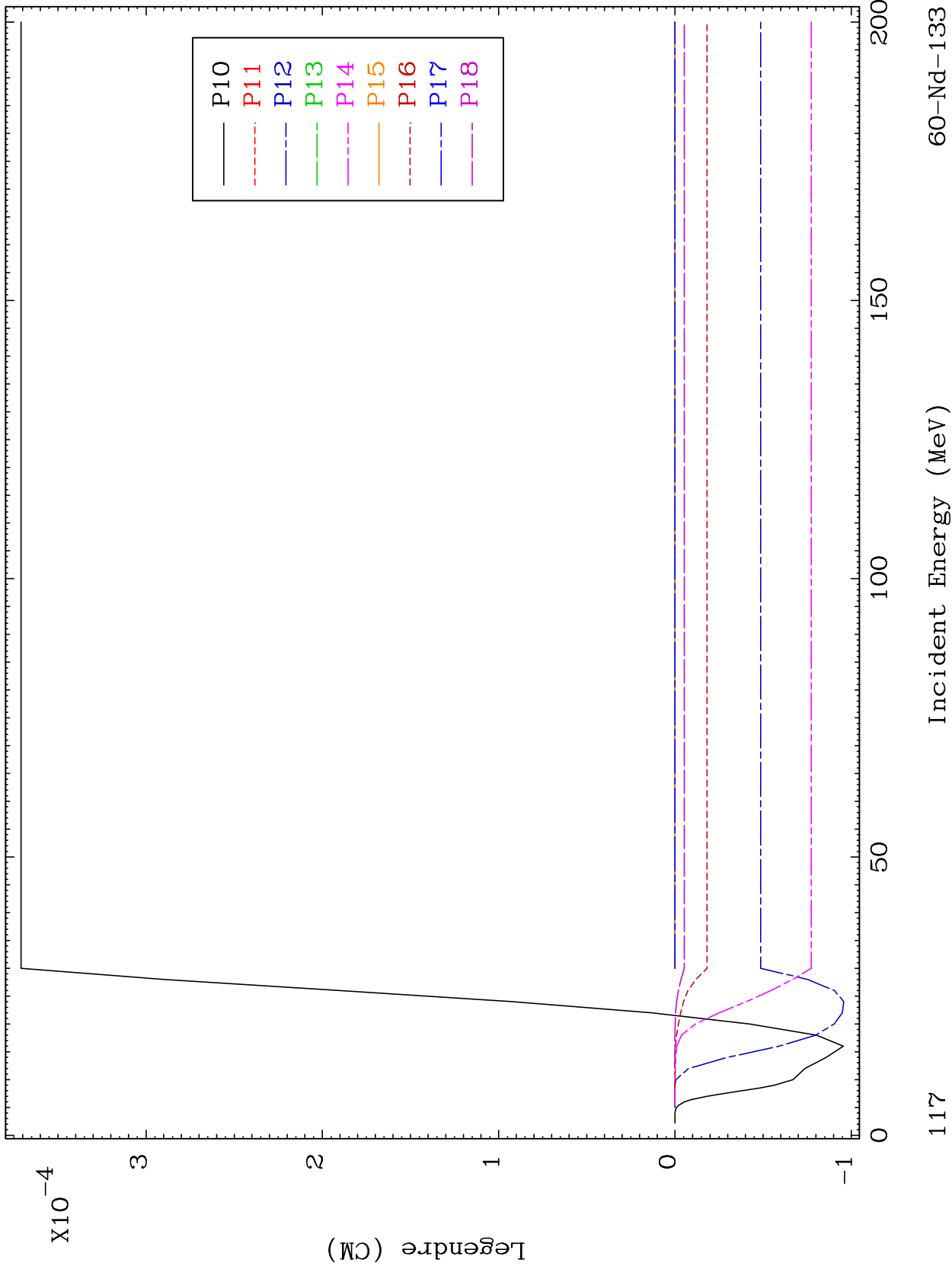




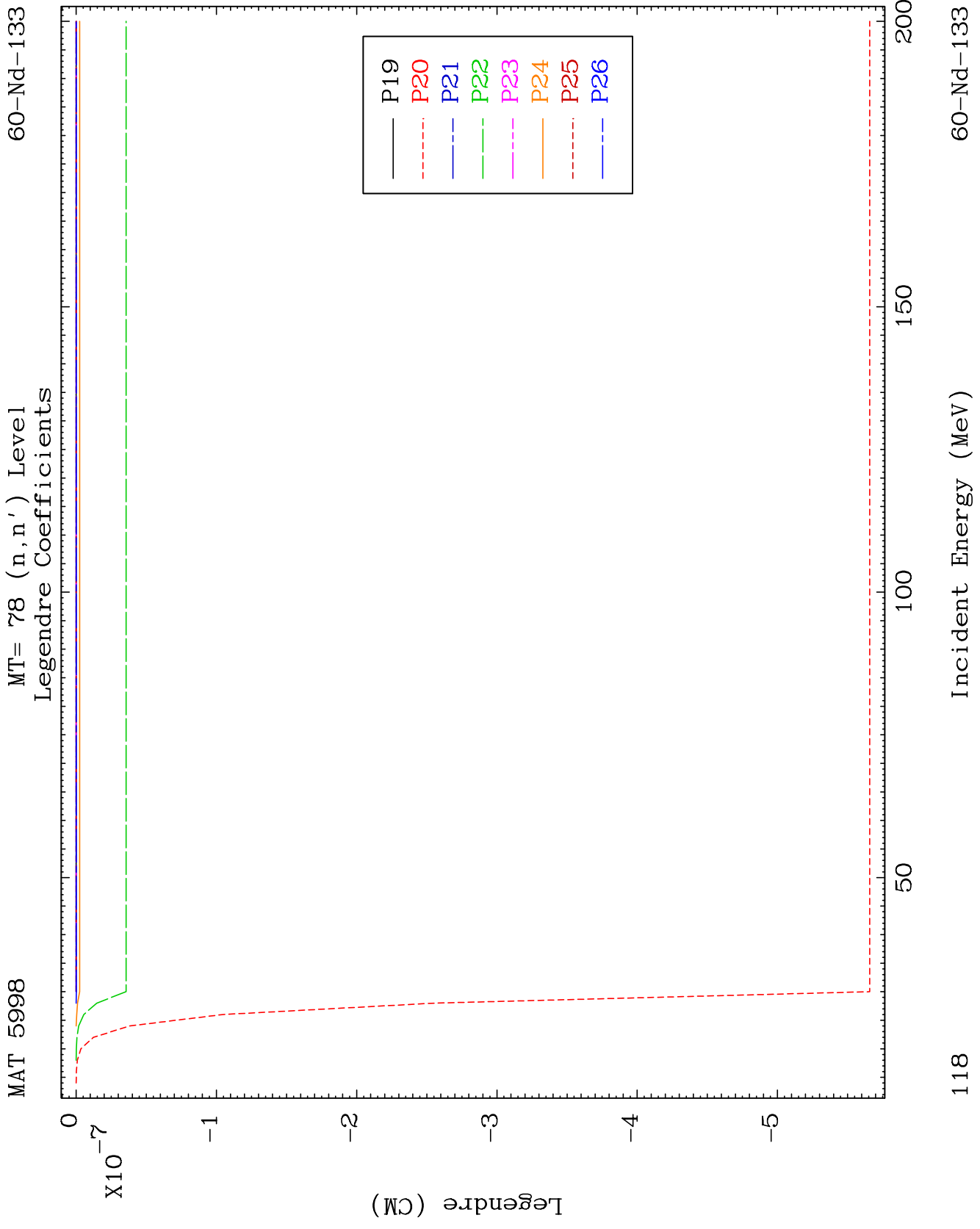
MAT 5998

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

60-Nd-133



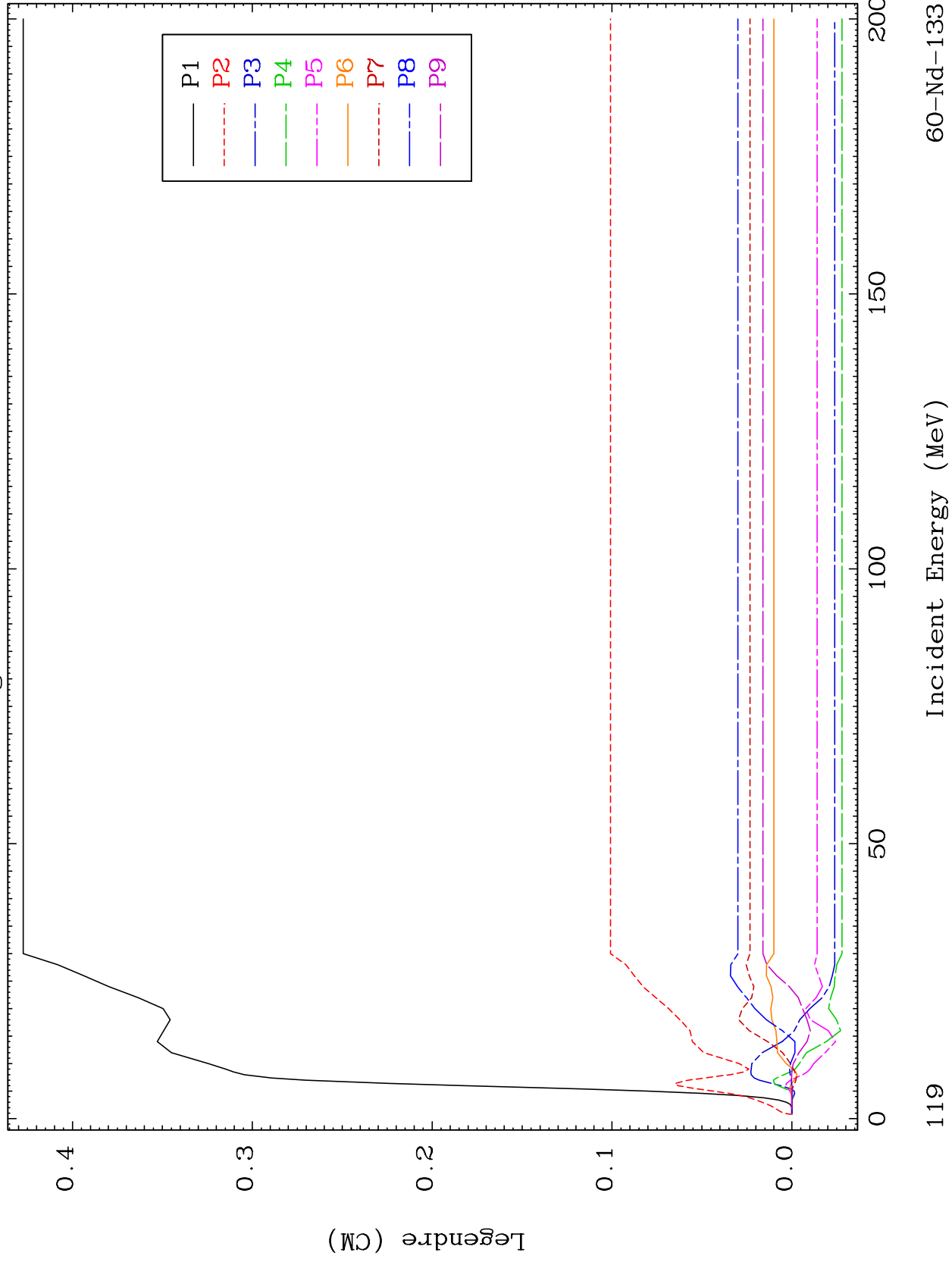
117



MAT 5998

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

60-Nd-133

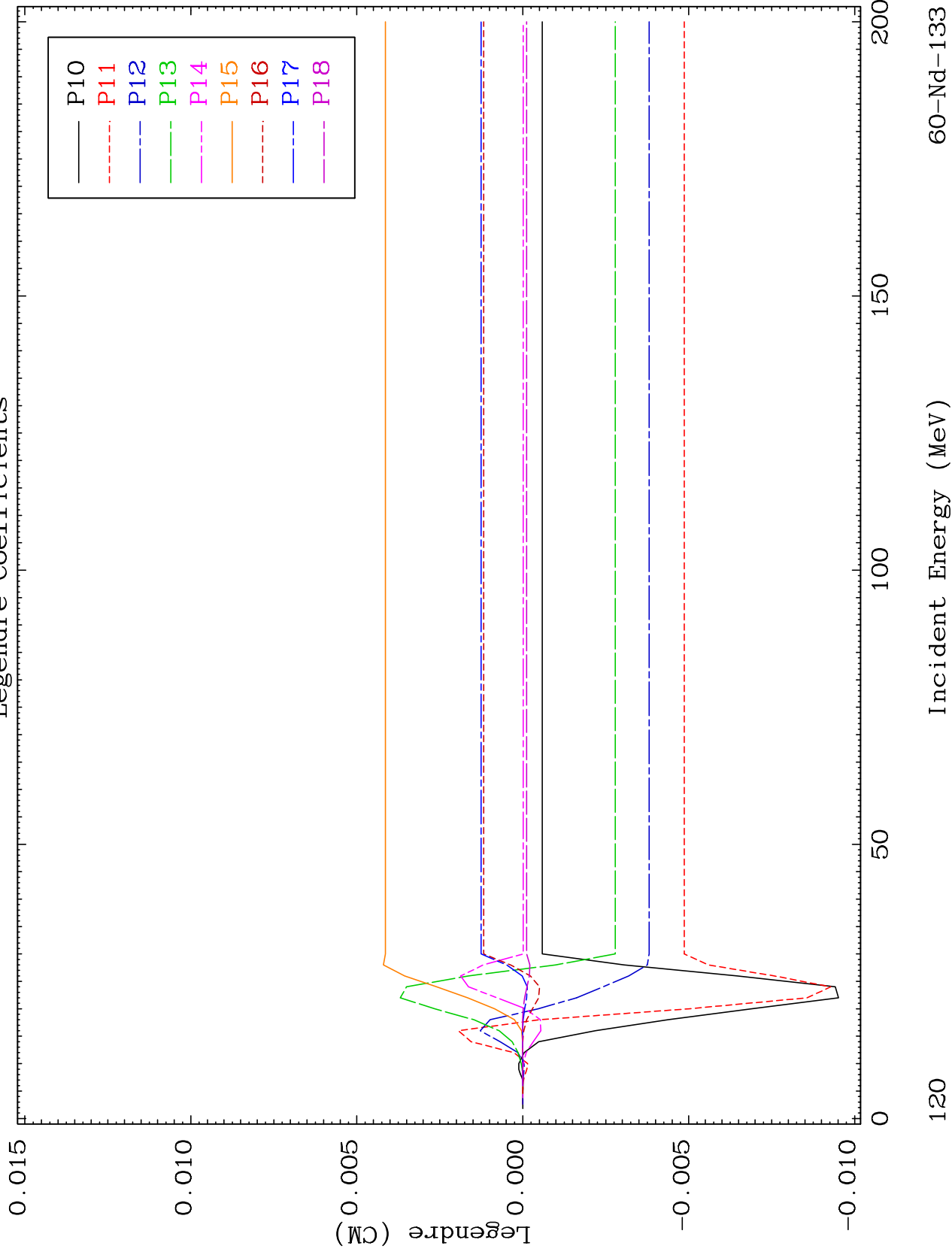




MAT 5998

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

60-Nd-133



60-Nd-133

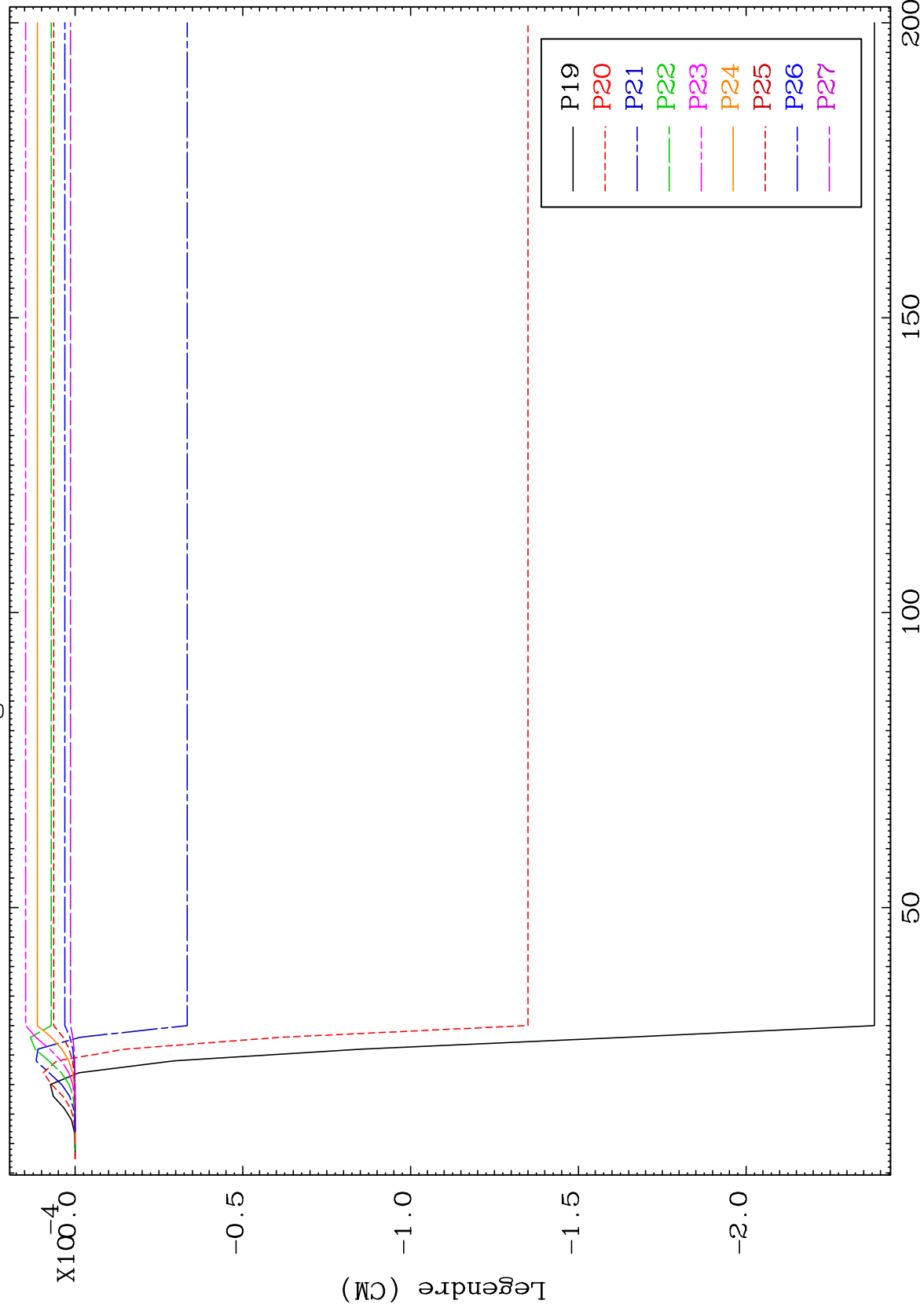
Incident Energy (MeV)

120

MAT 5998

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

60-Nd-133



121

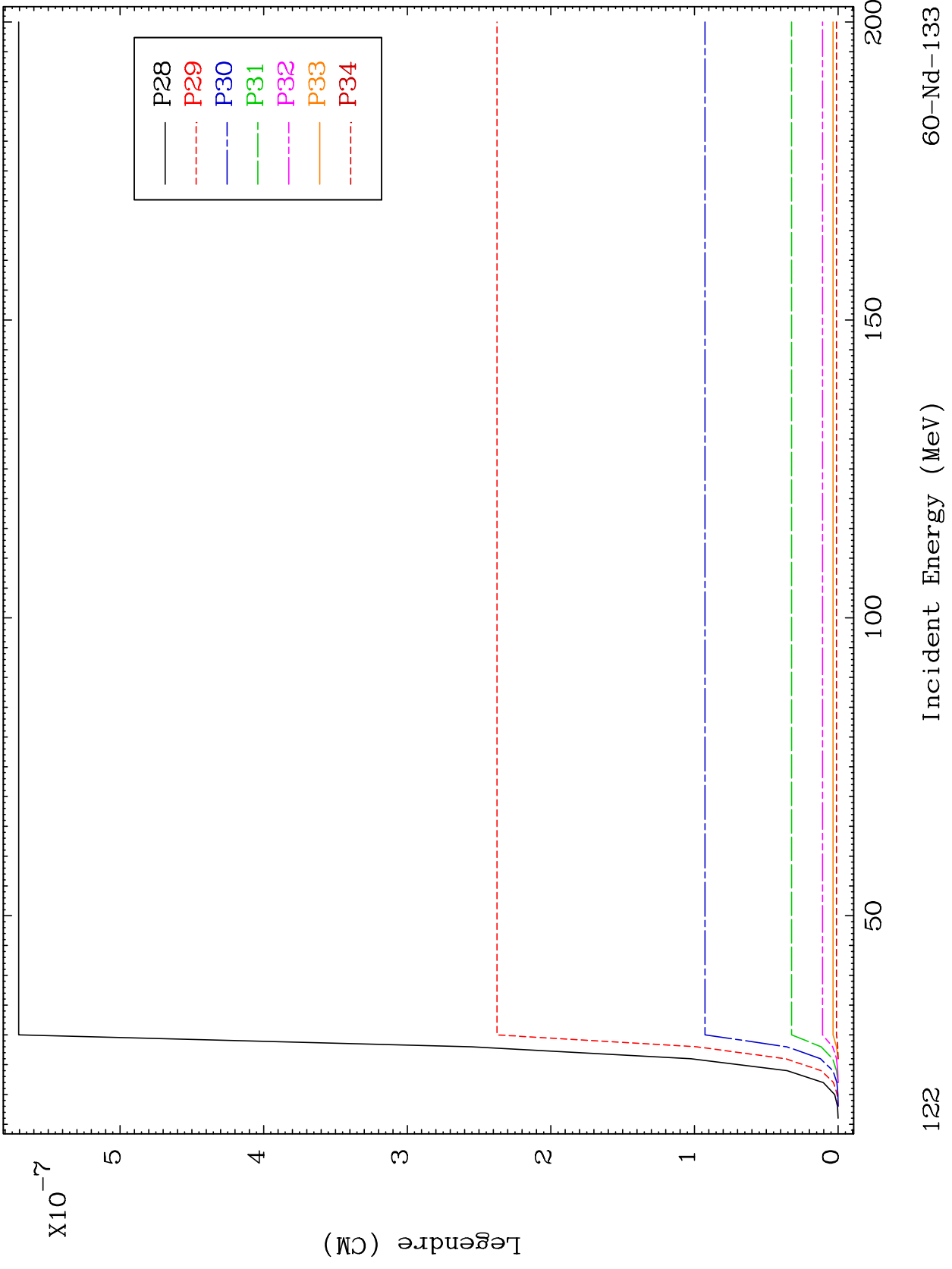
Incident Energy (MeV)

60-Nd-133

MAT 5998

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

60-Nd-133

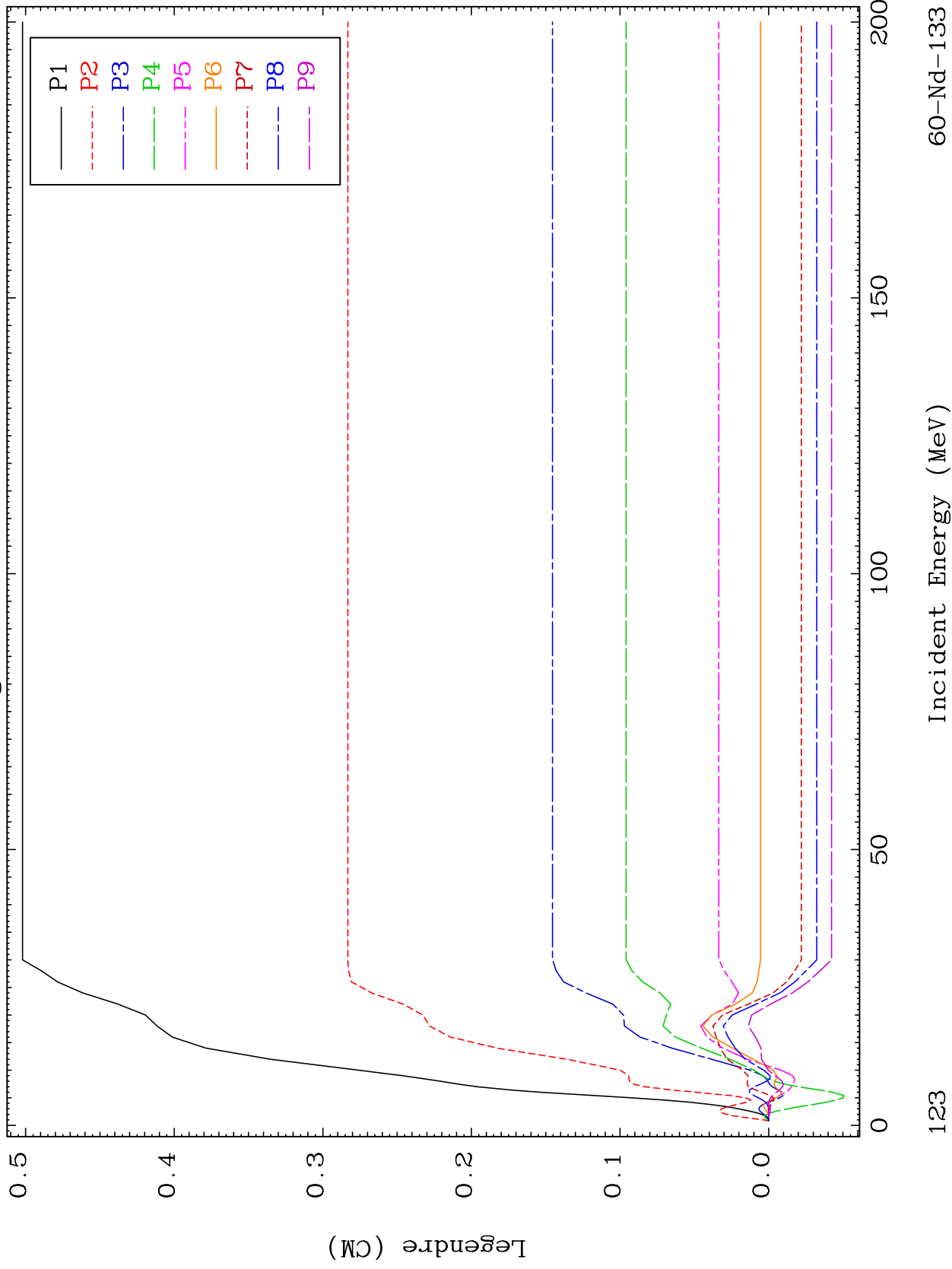


122

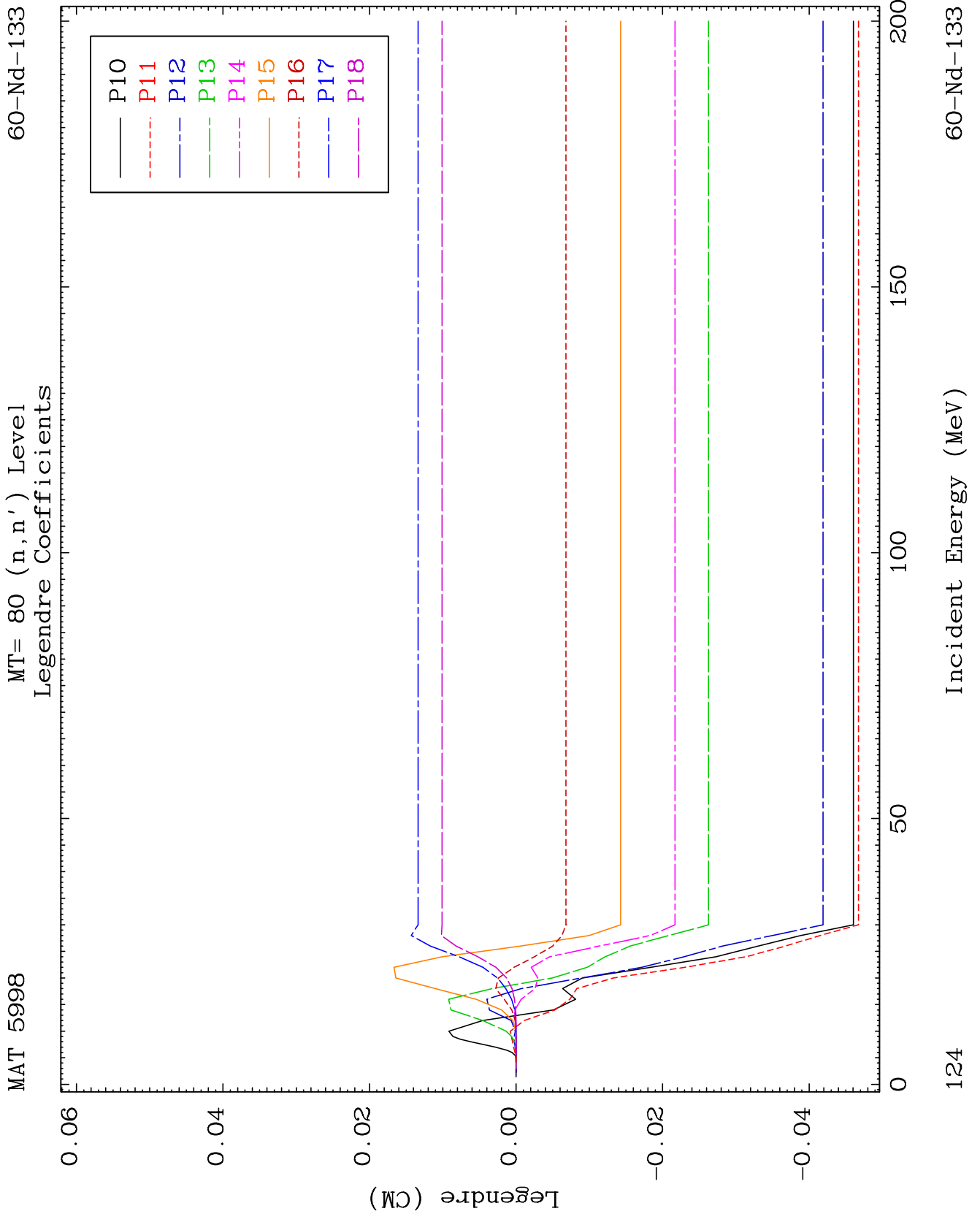
MAT 5998

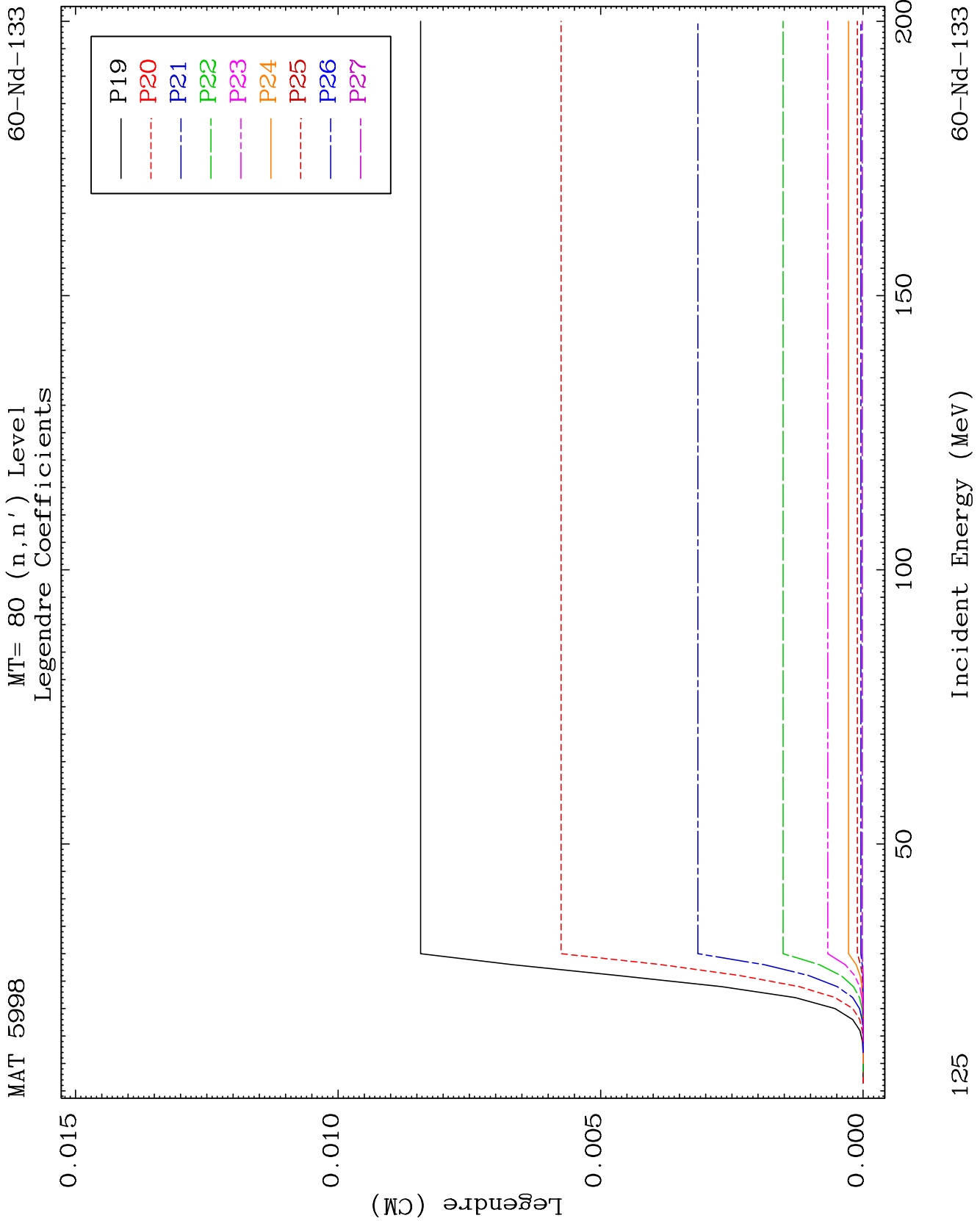
MT= 80 (n,n') Level  
Legendre Coefficients

60-Nd-133



123

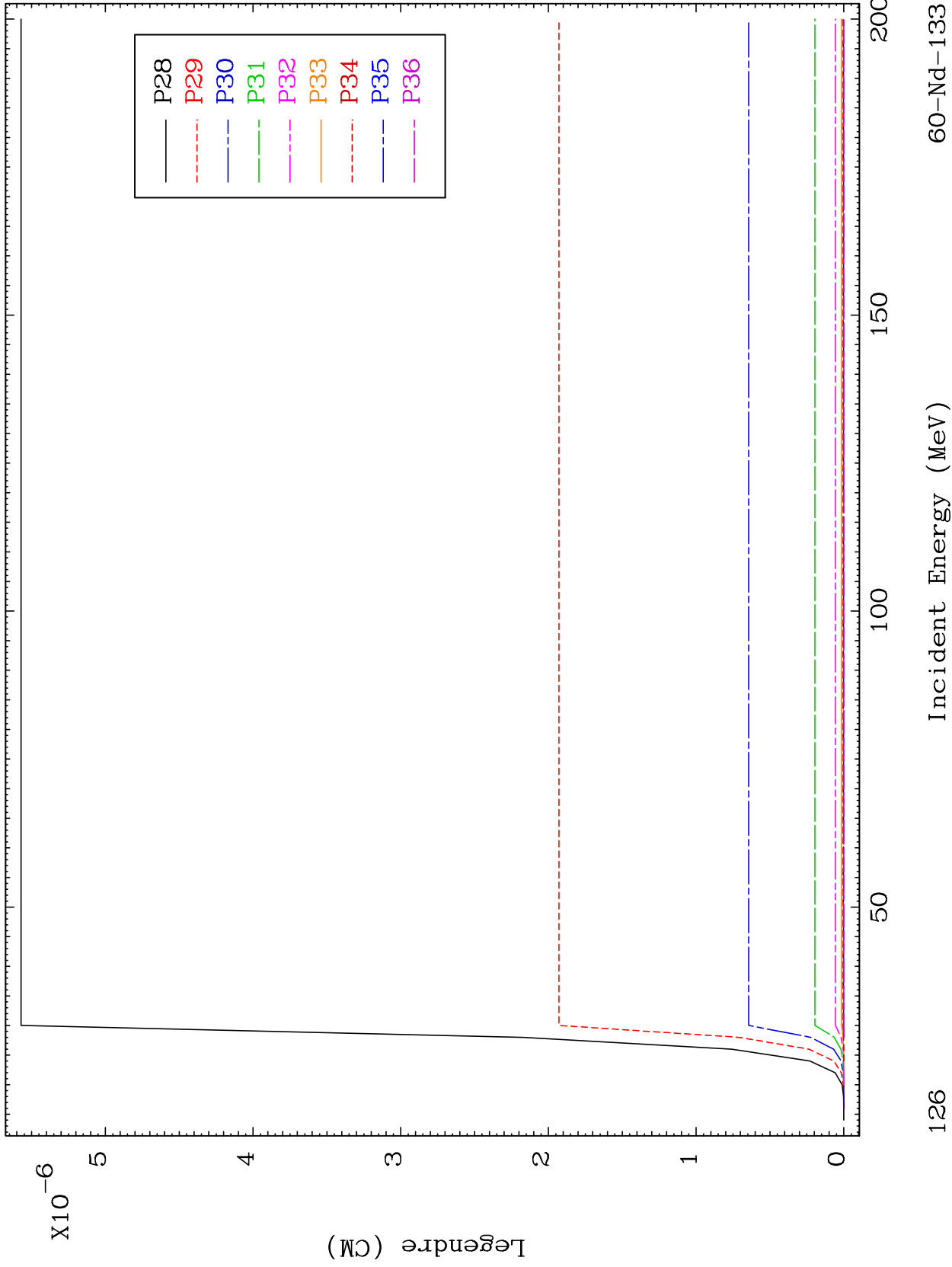




MAT 5998

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

60-Nd-133



126

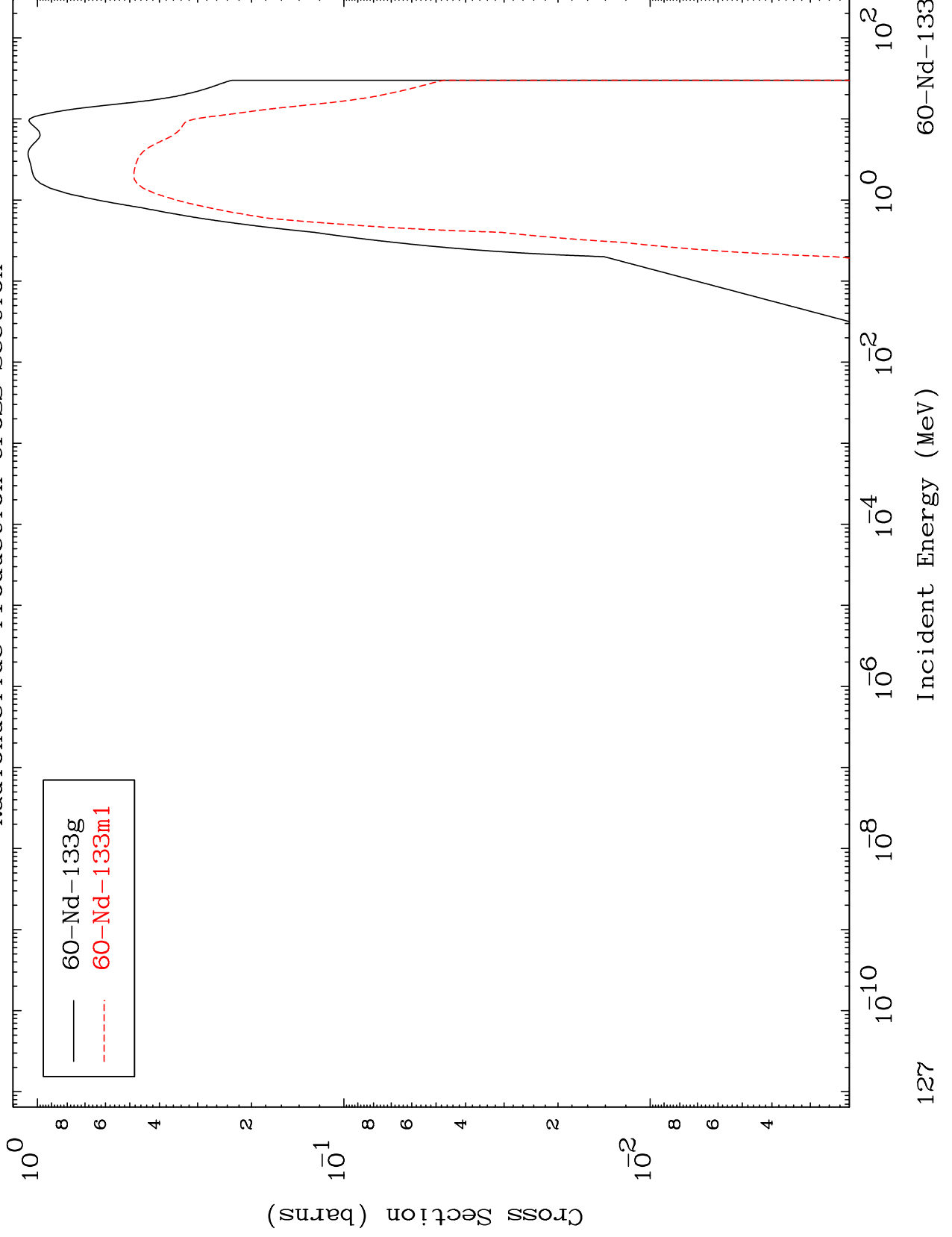
Incident Energy (MeV)

60-Nd-133

MAT 5998

Inelastic  
Radionuclide Production Cross Section

<sup>60</sup>Nd-133



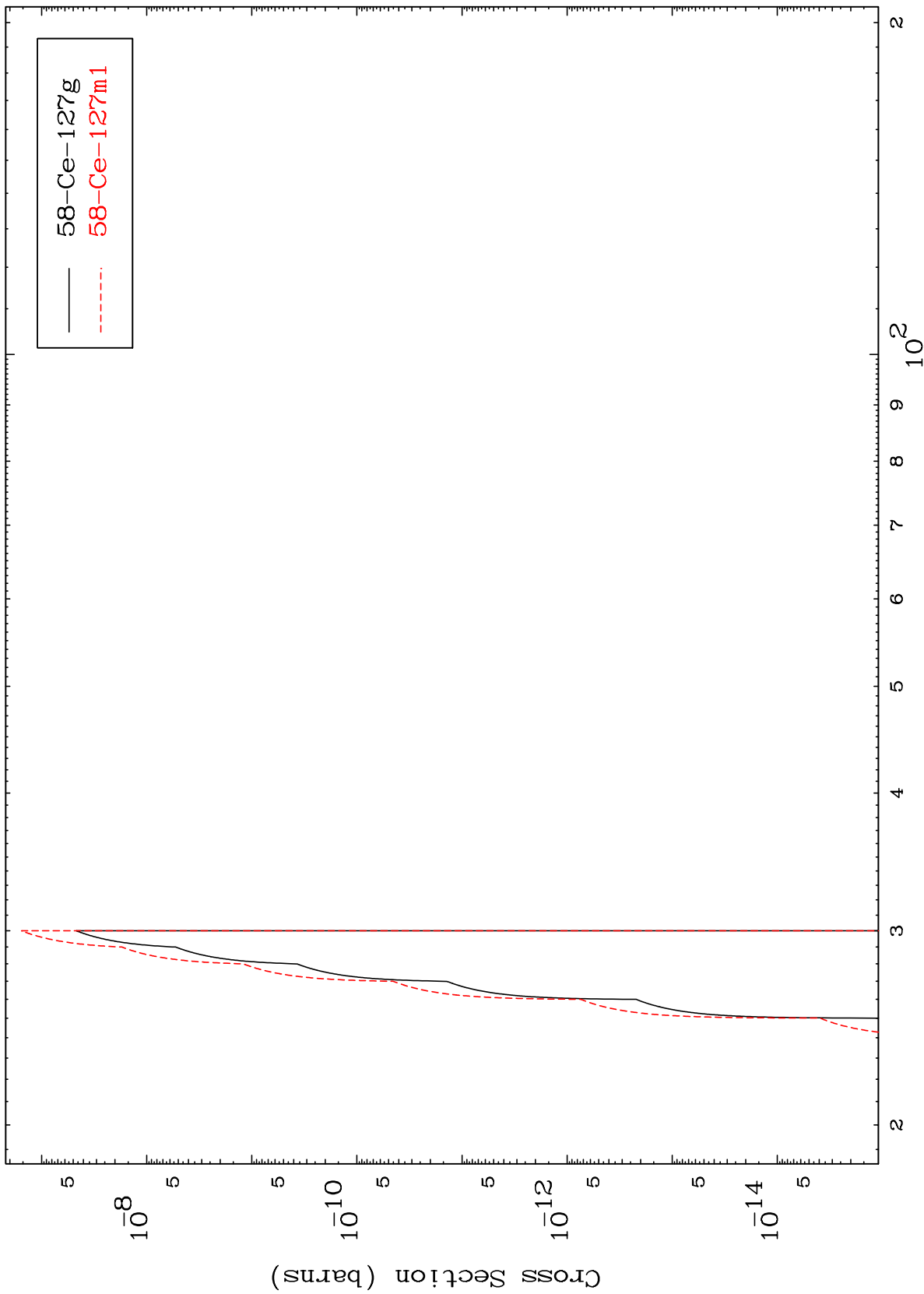


MAT 5998

$(n,3n) \alpha$

$^{60}\text{Nd-133}$

Radionuclide Production Cross Section

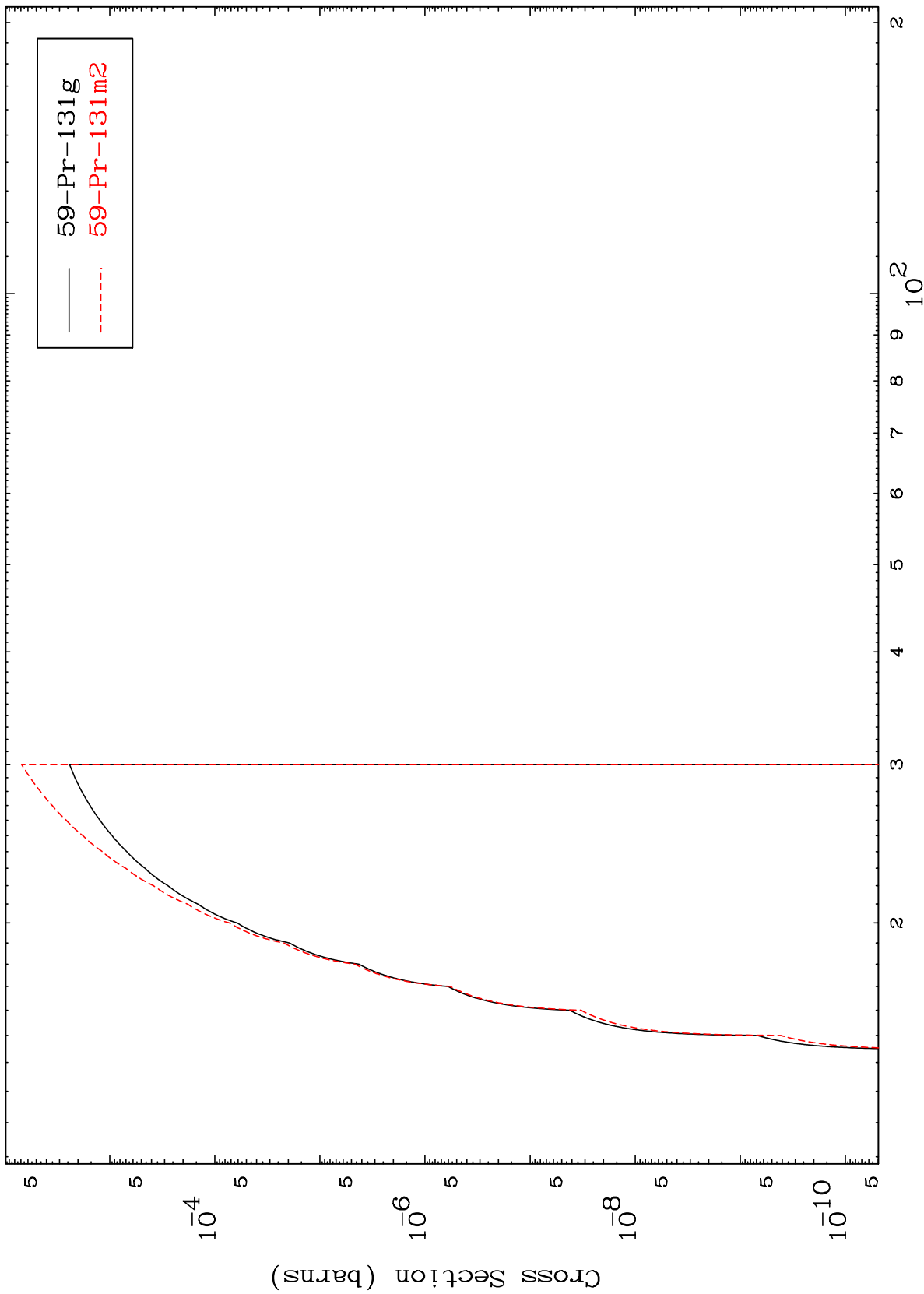


128

Incident Energy (MeV)

$^{60}\text{Nd-133}$

Radionuclide Production Cross Section

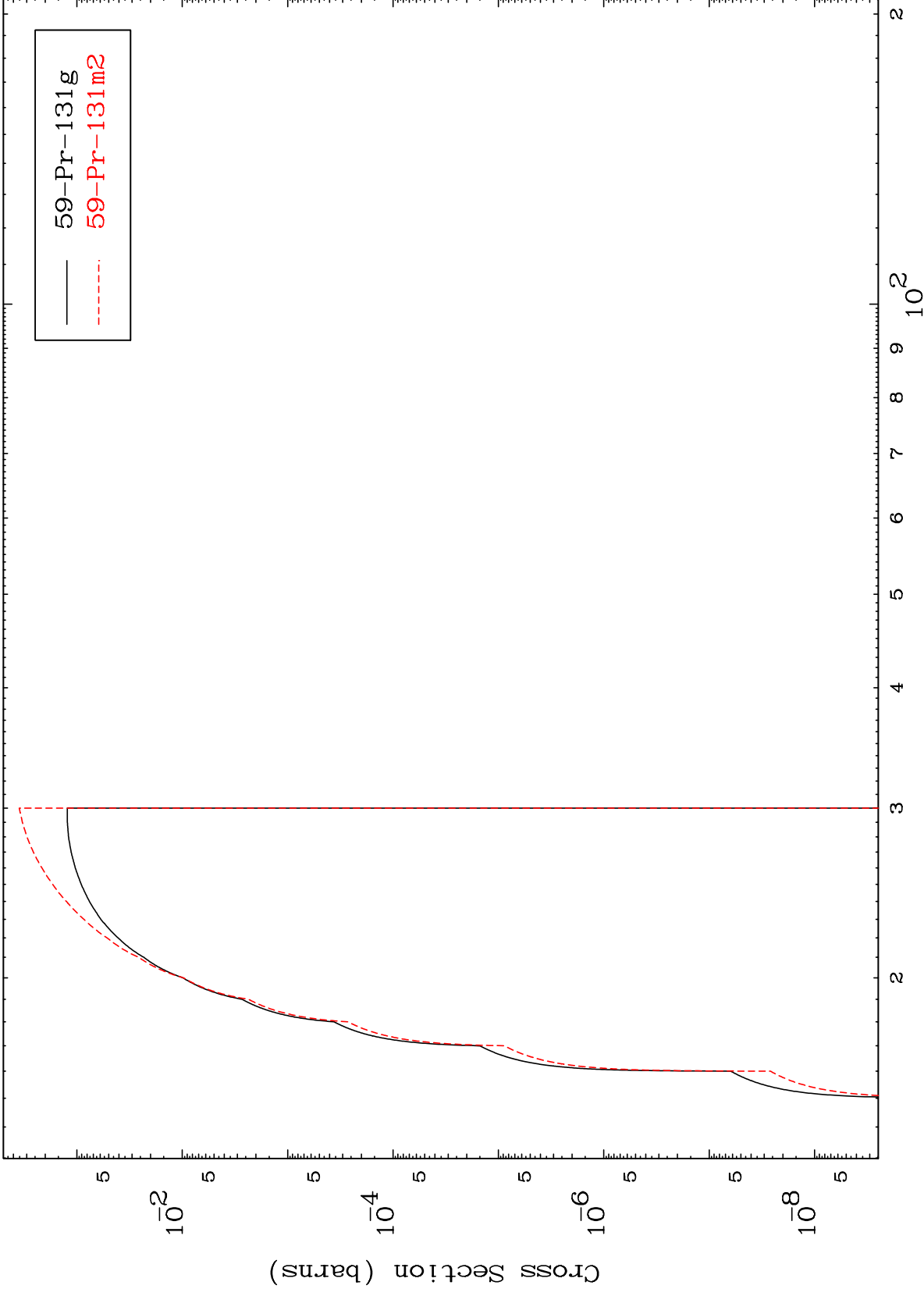


MAT 5998

(n,2n) p

60-Nd-133

Radionuclide Production Cross Section



130

Incident Energy (MeV)

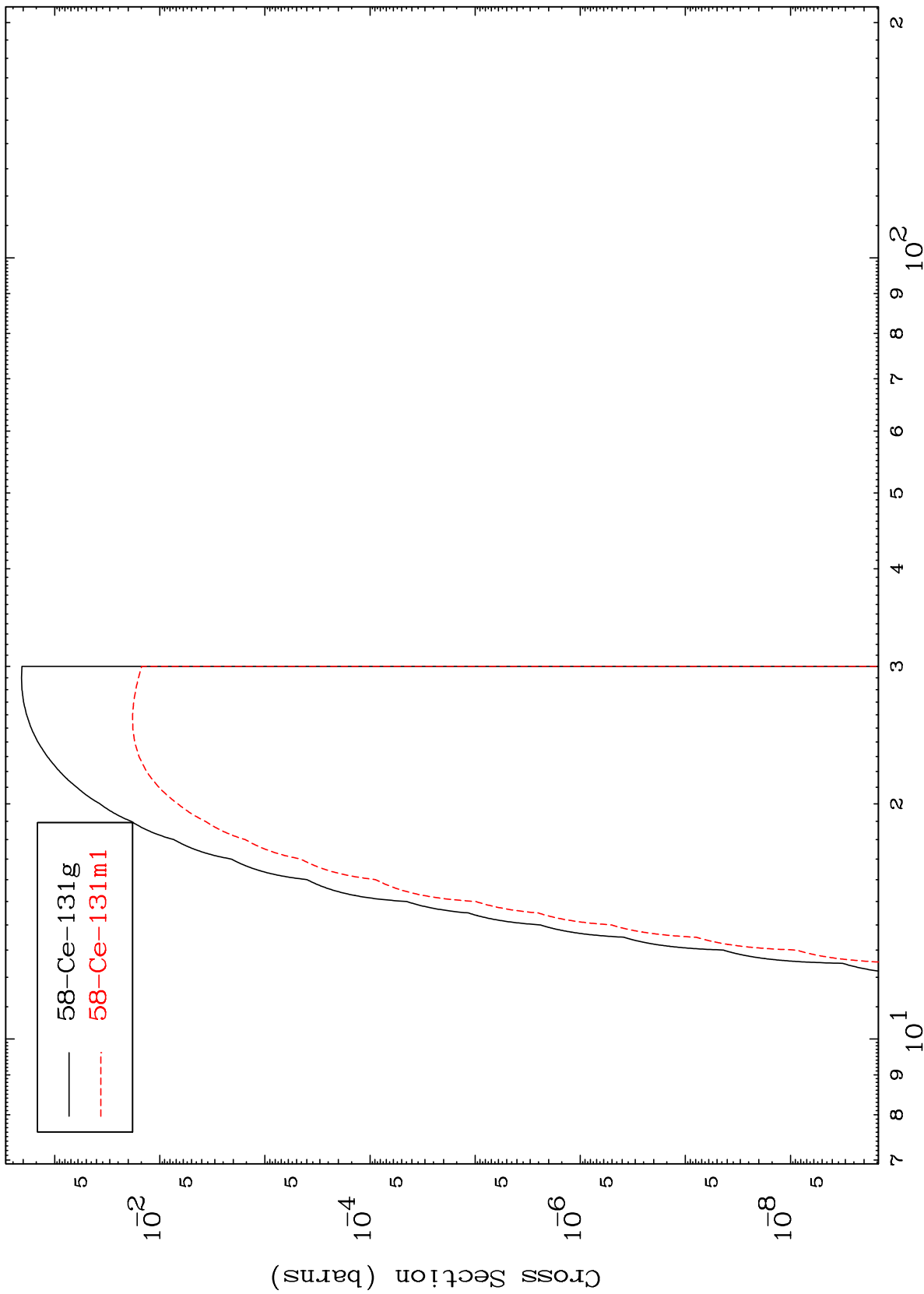
60-Nd-133

MAT 5998

(n,2n) p

60-Nd-133

Radionuclide Production Cross Section



58-Ce-131g  
58-Ce-131m1

131

Incident Energy (MeV)

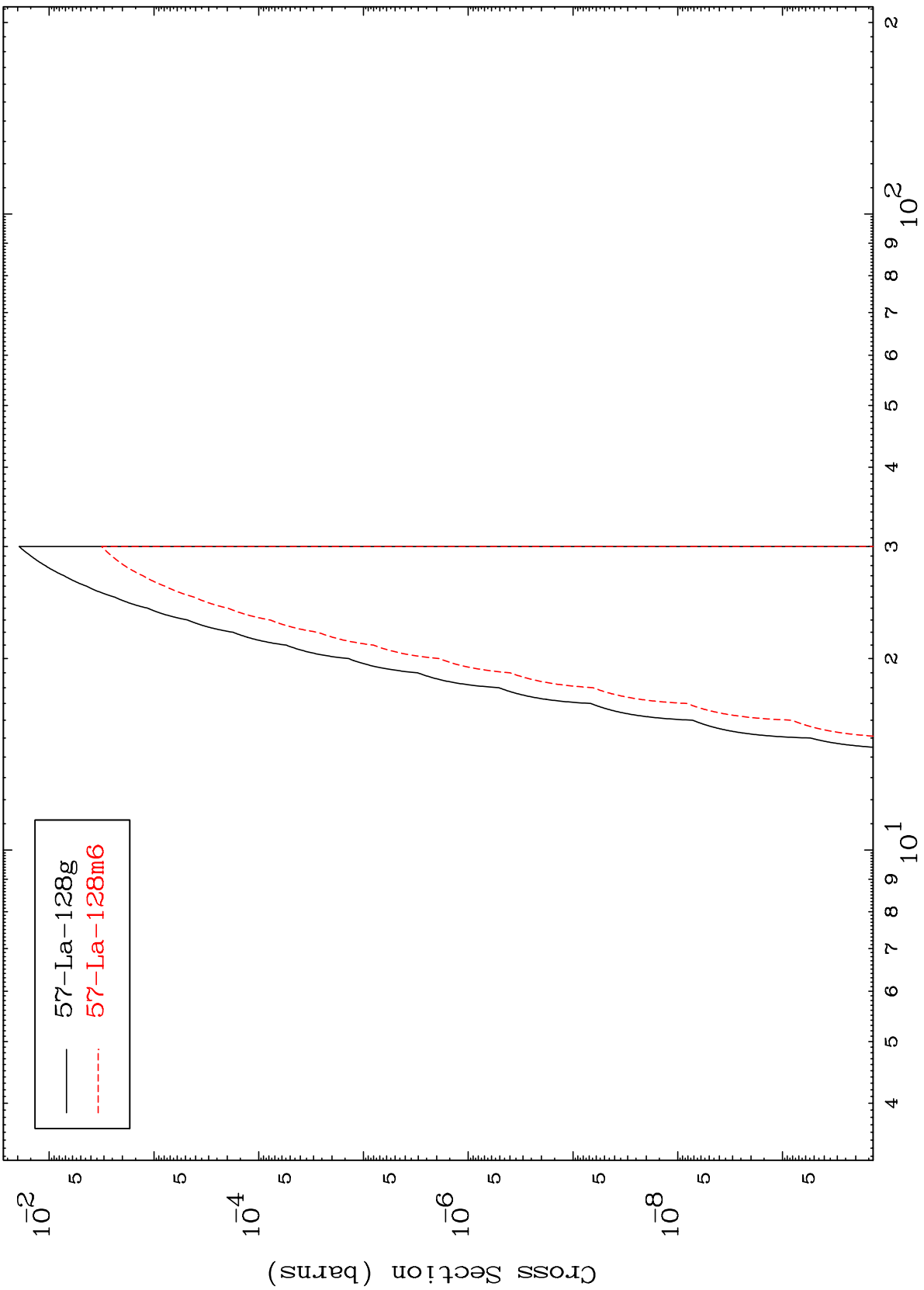
60-Nd-133

MAT 5998

(n,n') p  $\alpha$

60-Nd-133

Radionuclide Production Cross Section



132

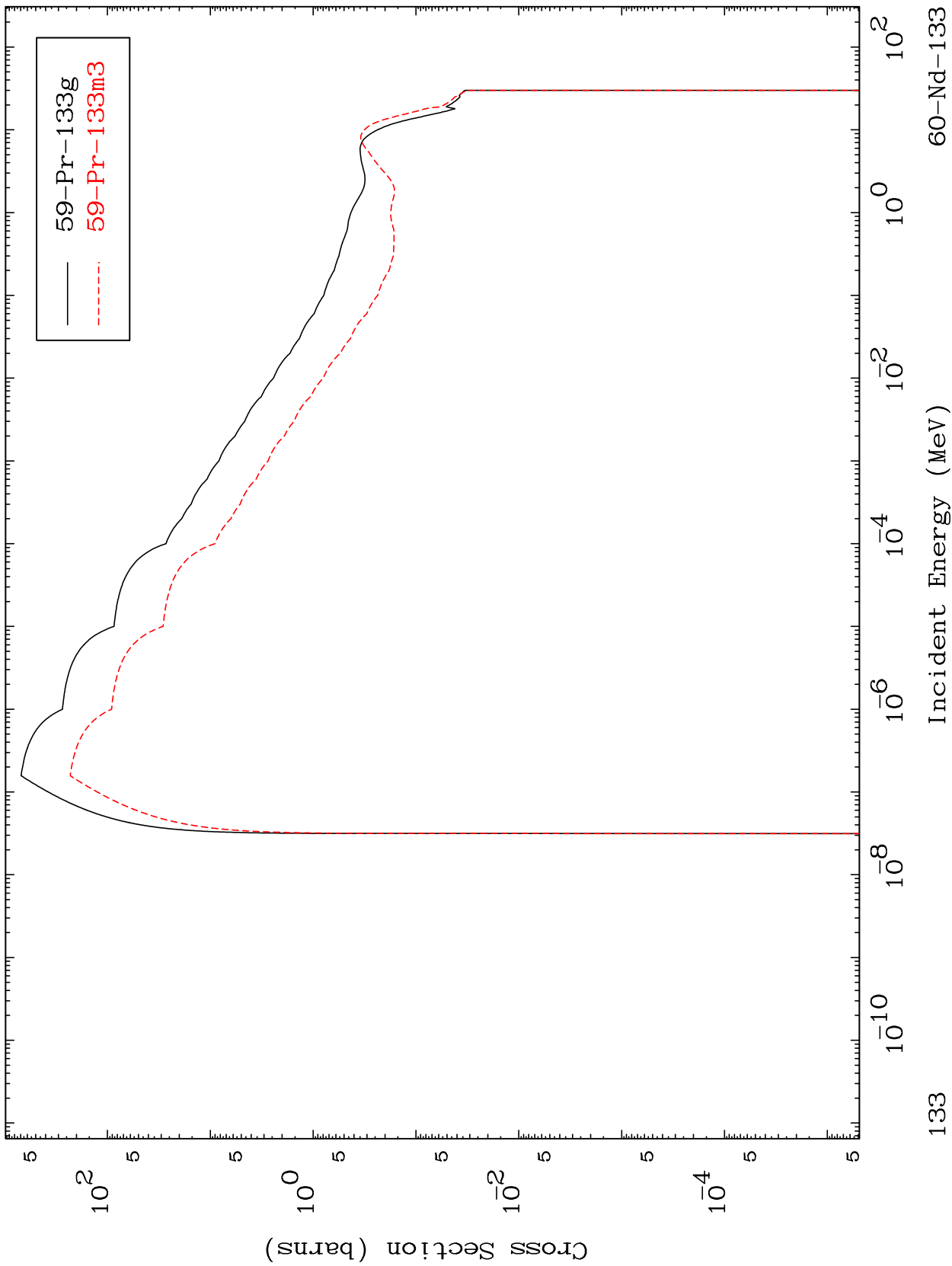
Incident Energy (MeV)

60-Nd-133

MAT 5998

60-Nd-133

(n,p)  
Radionuclide Production Cross Section

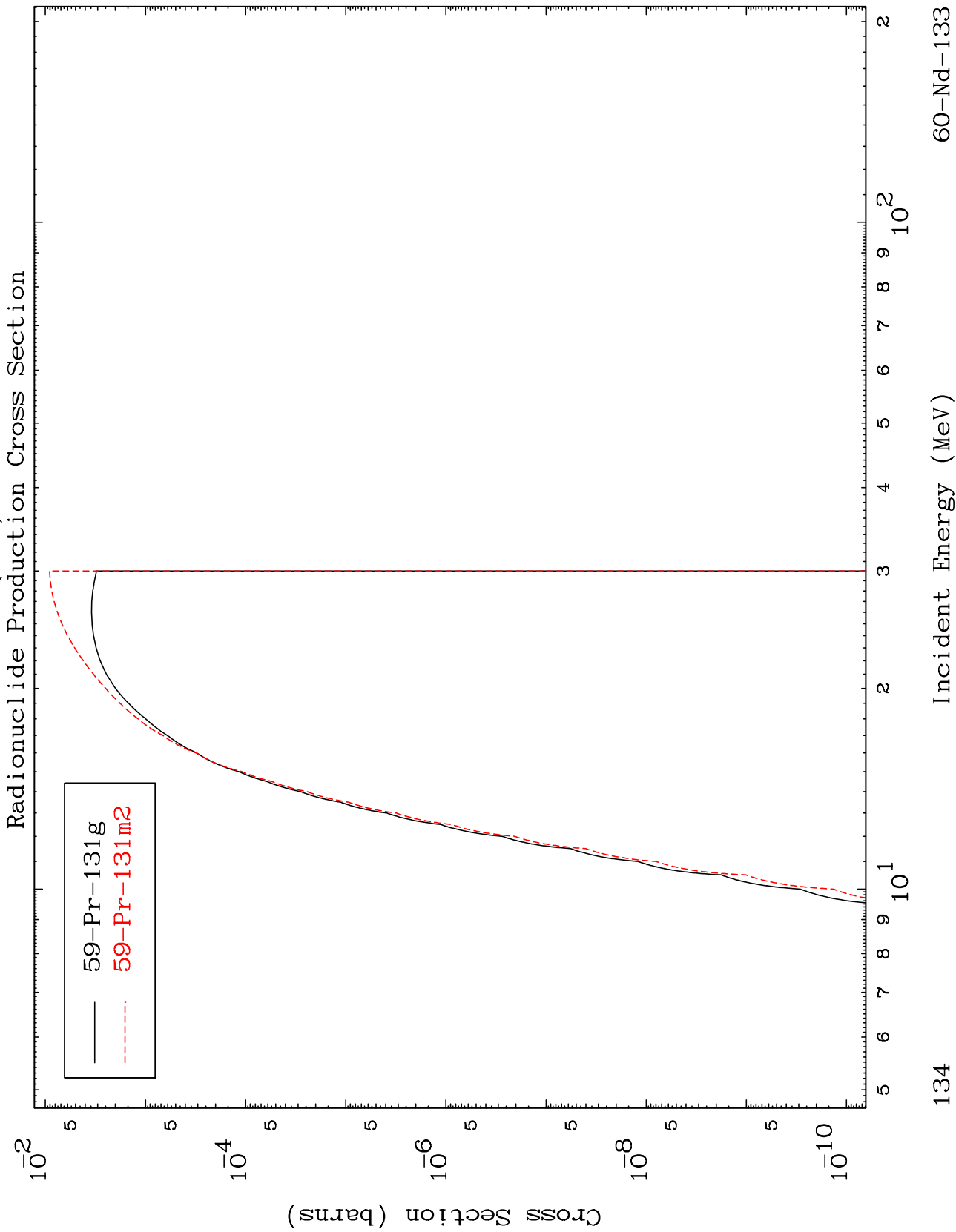


133

60-Nd-133

MAT 5998

60-Nd-133



134

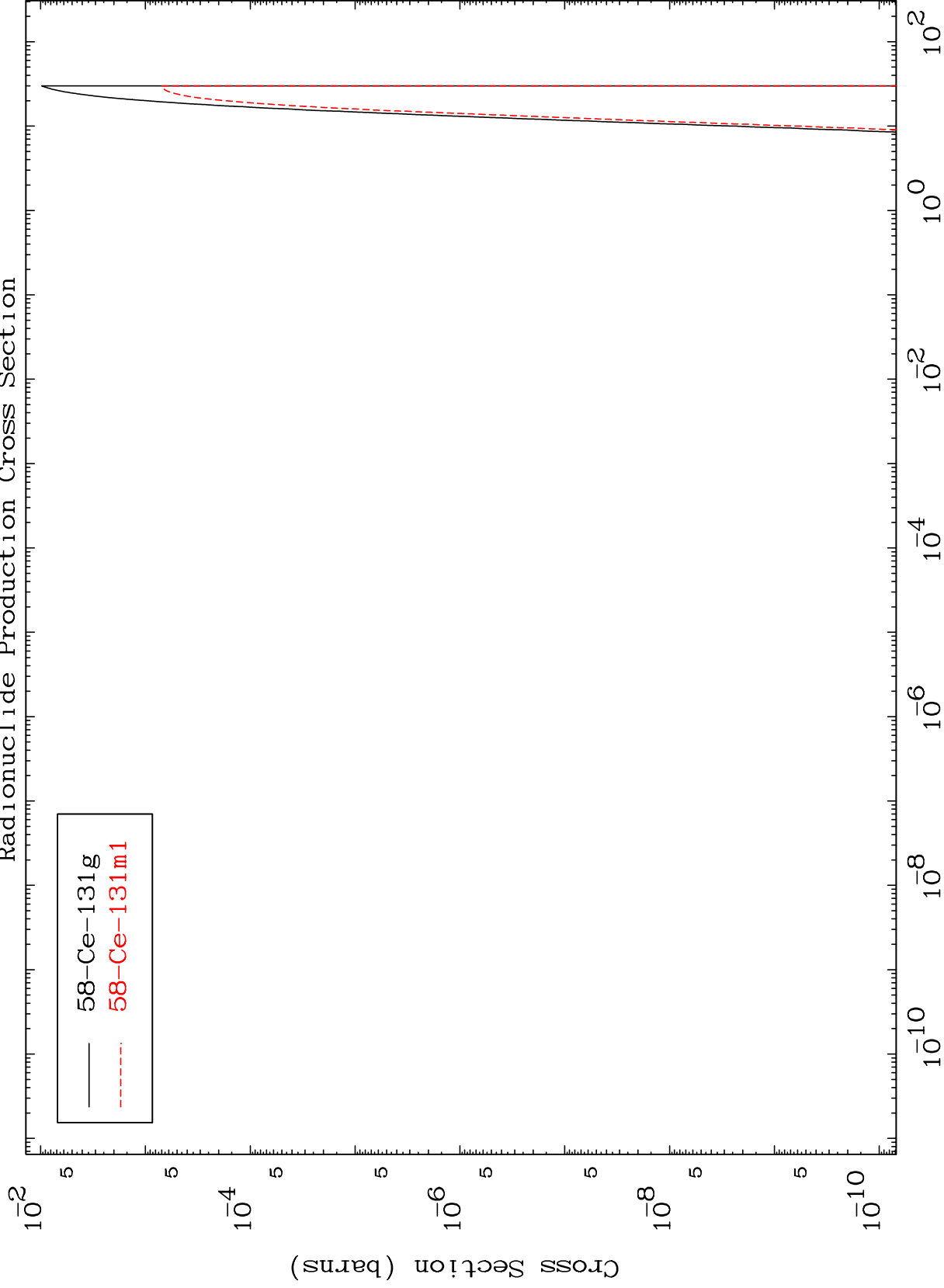
60-Nd-133

MAT 5998

(n,He-3)

60-Nd-133

Radionuclide Production Cross Section



135

Incident Energy (MeV)

60-Nd-133

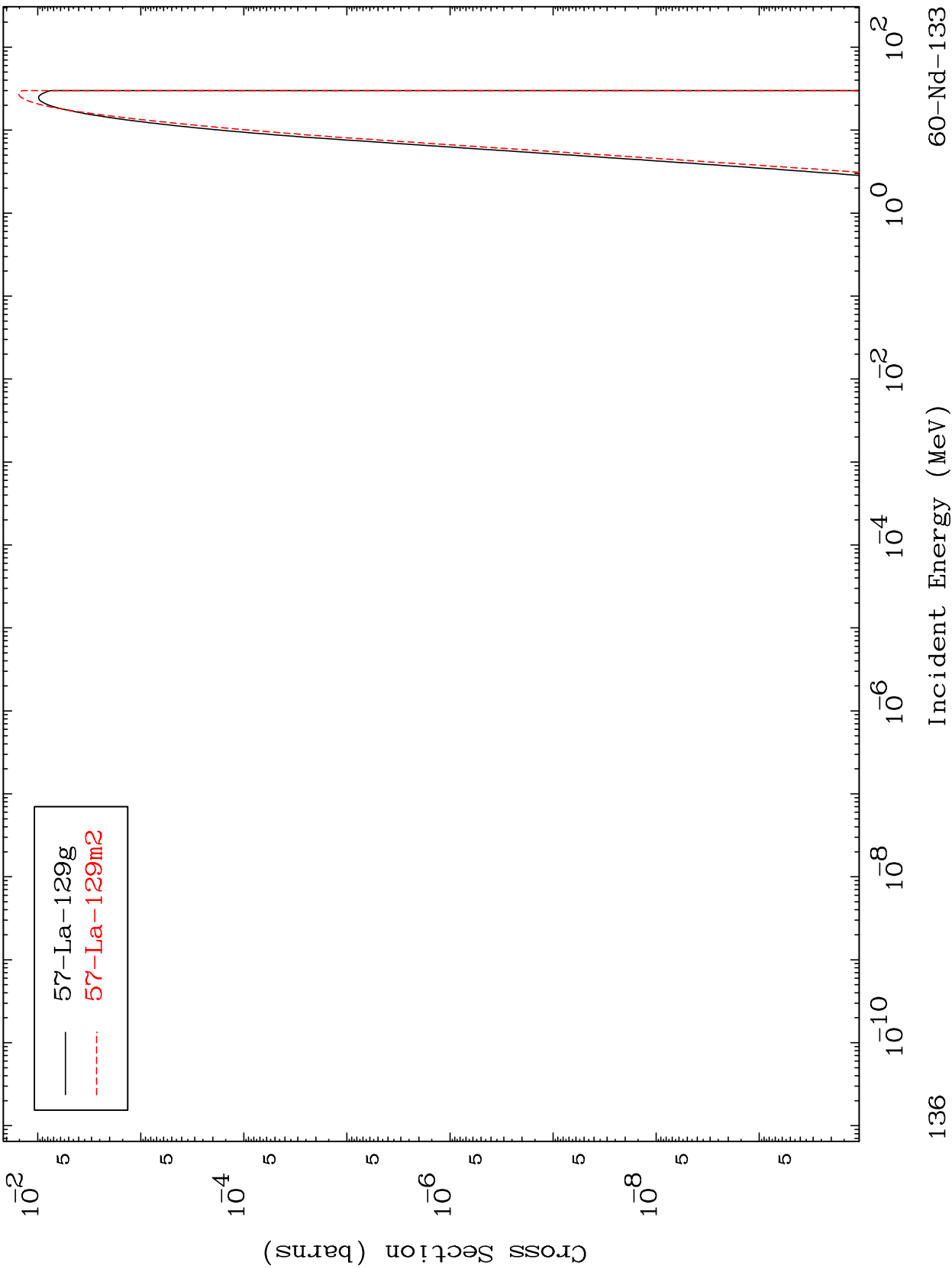


MAT 5998

(n,p)  $\alpha$

60-Nd-133

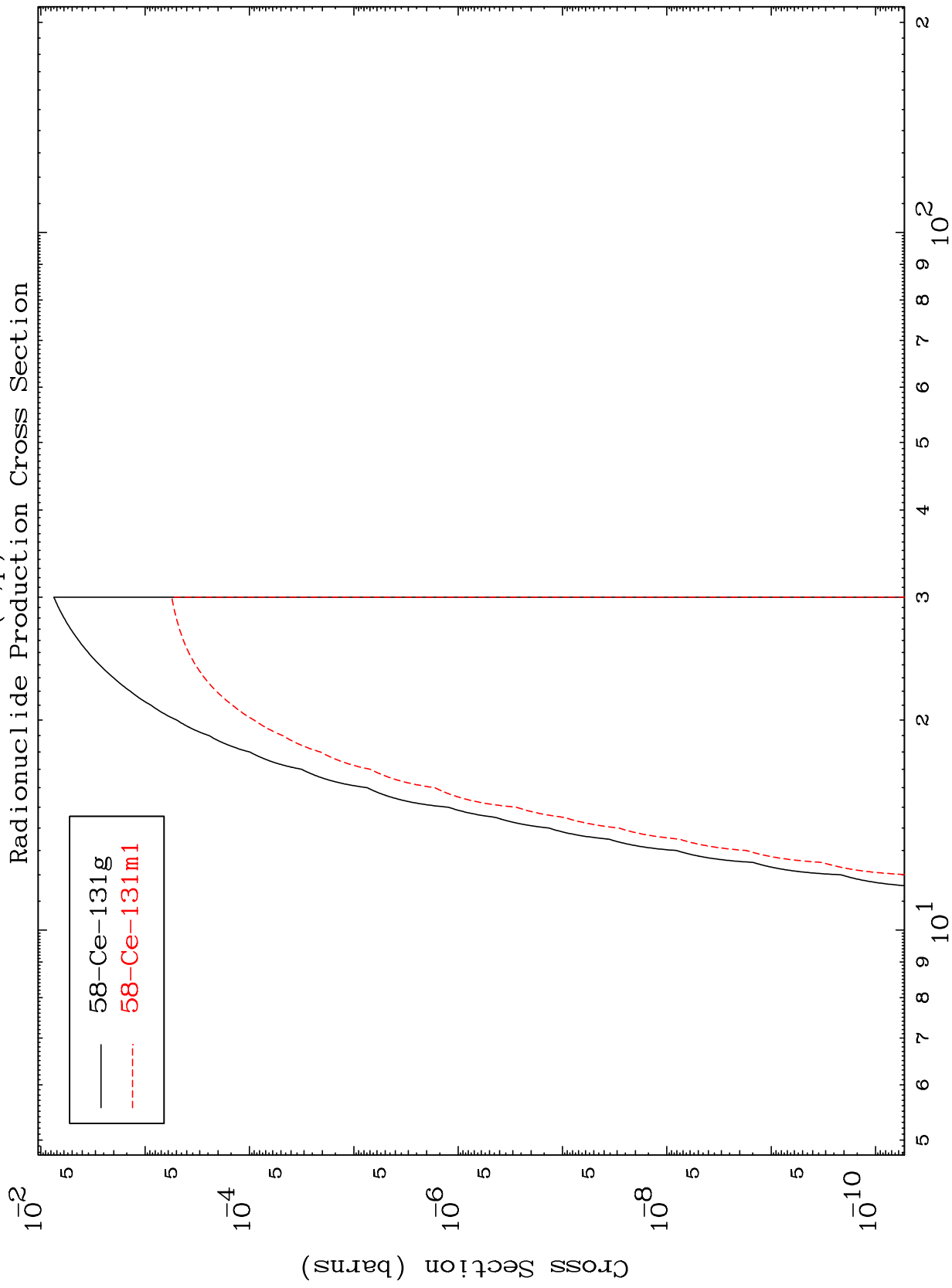
Radionuclide Production Cross Section



MAT 5998

(n,p) d

60-Nd-133

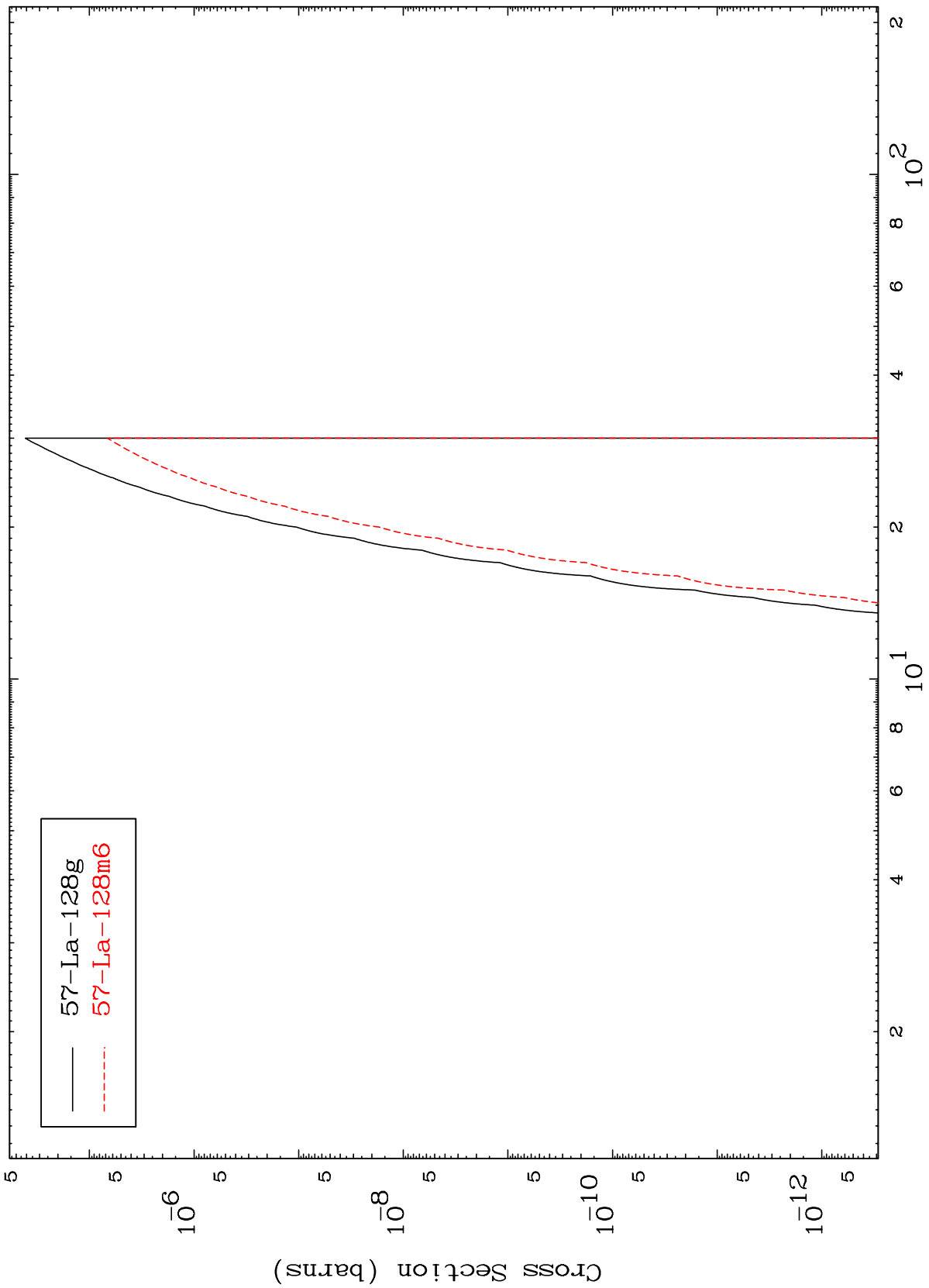


MAT 5998

(n,d)  $\alpha$

60-Nd-133

Radionuclide Production Cross Section



— 57-La-128g  
- - - 57-La-128m6

138

Incident Energy (MeV)

60-Nd-133