

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

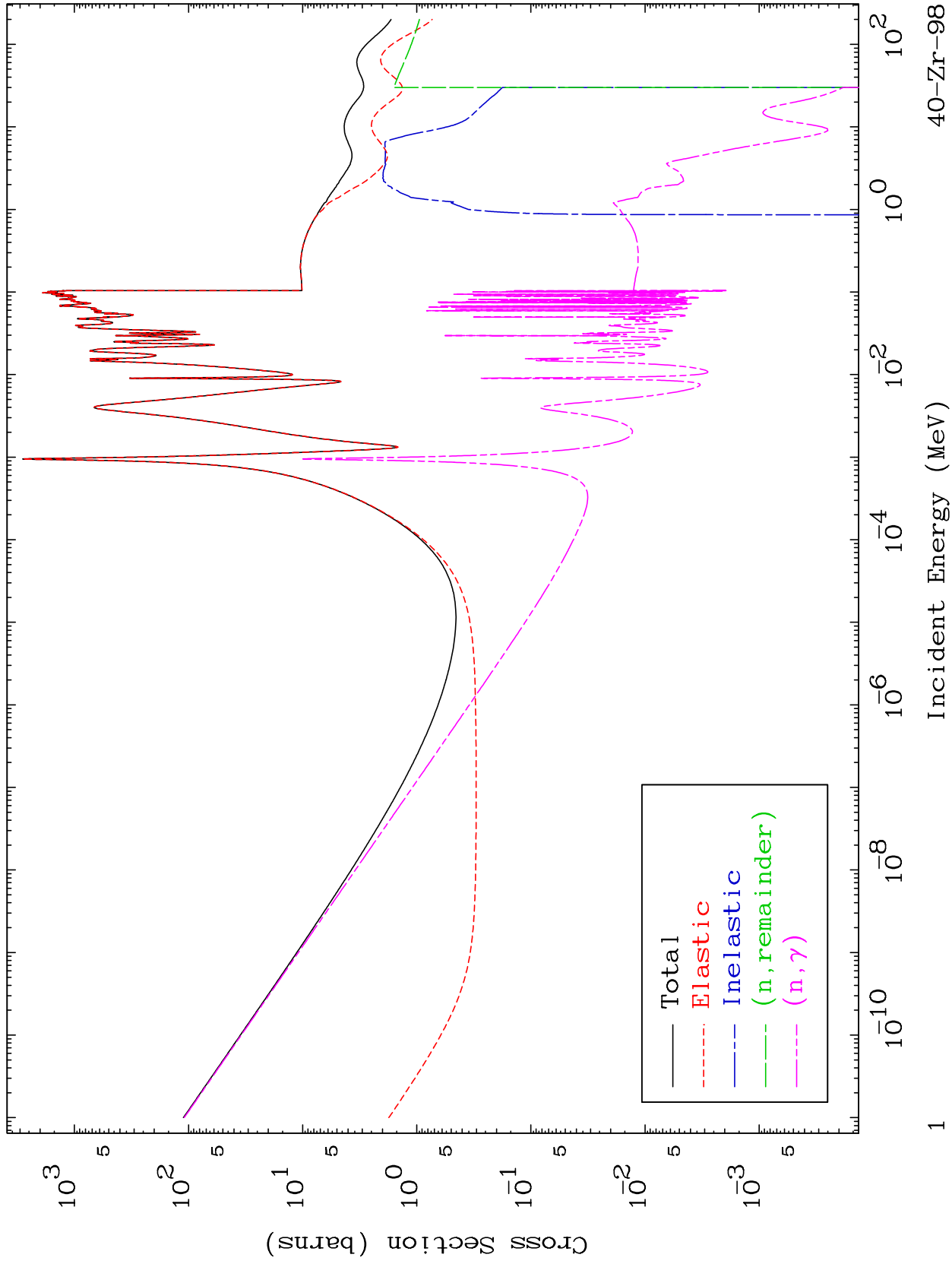
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 4049

Major  
293 Kelvin Cross Sections

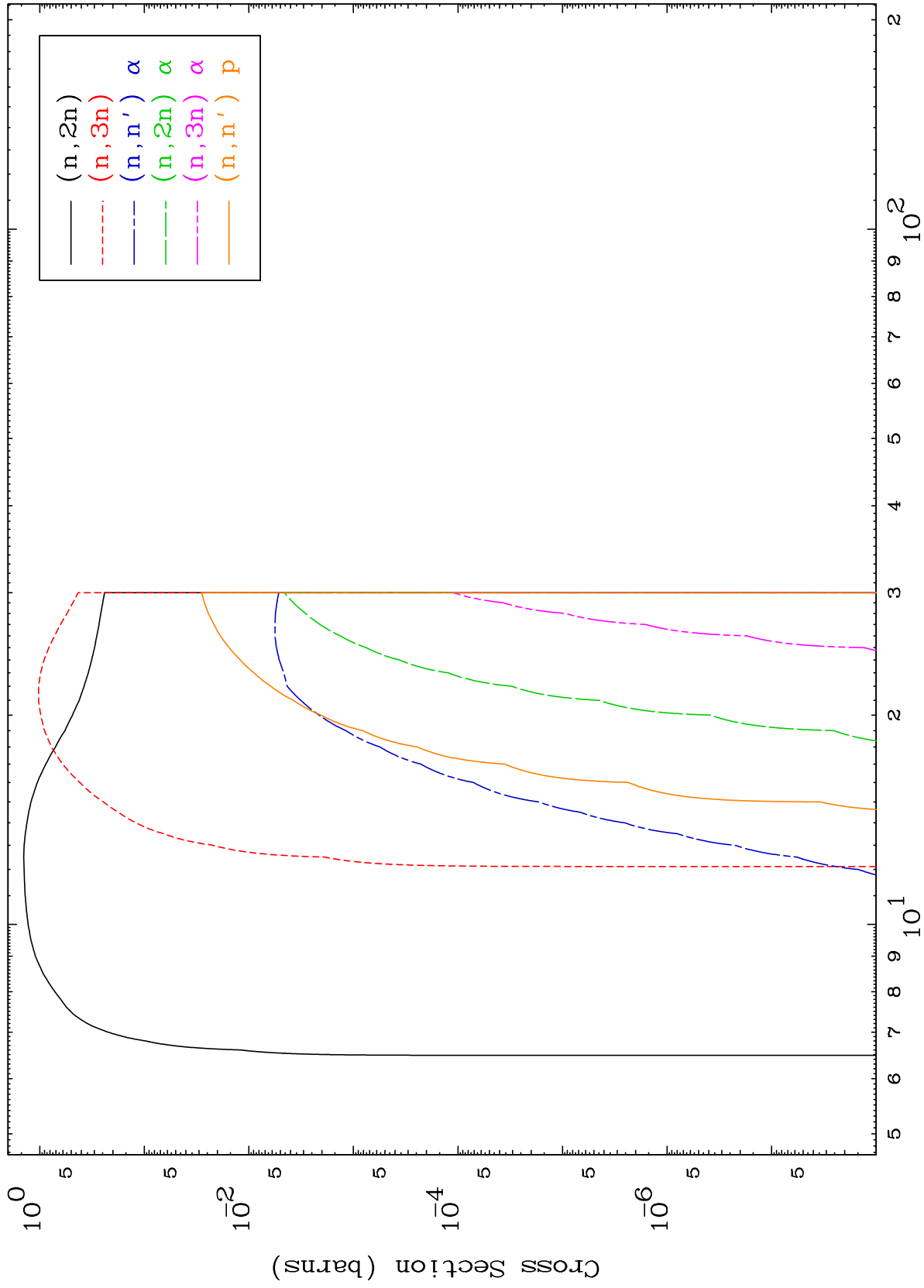
40-Zr-98



MAT 4049

Neutron Production  
293 Kelvin Cross Sections

40-Zr-98



2

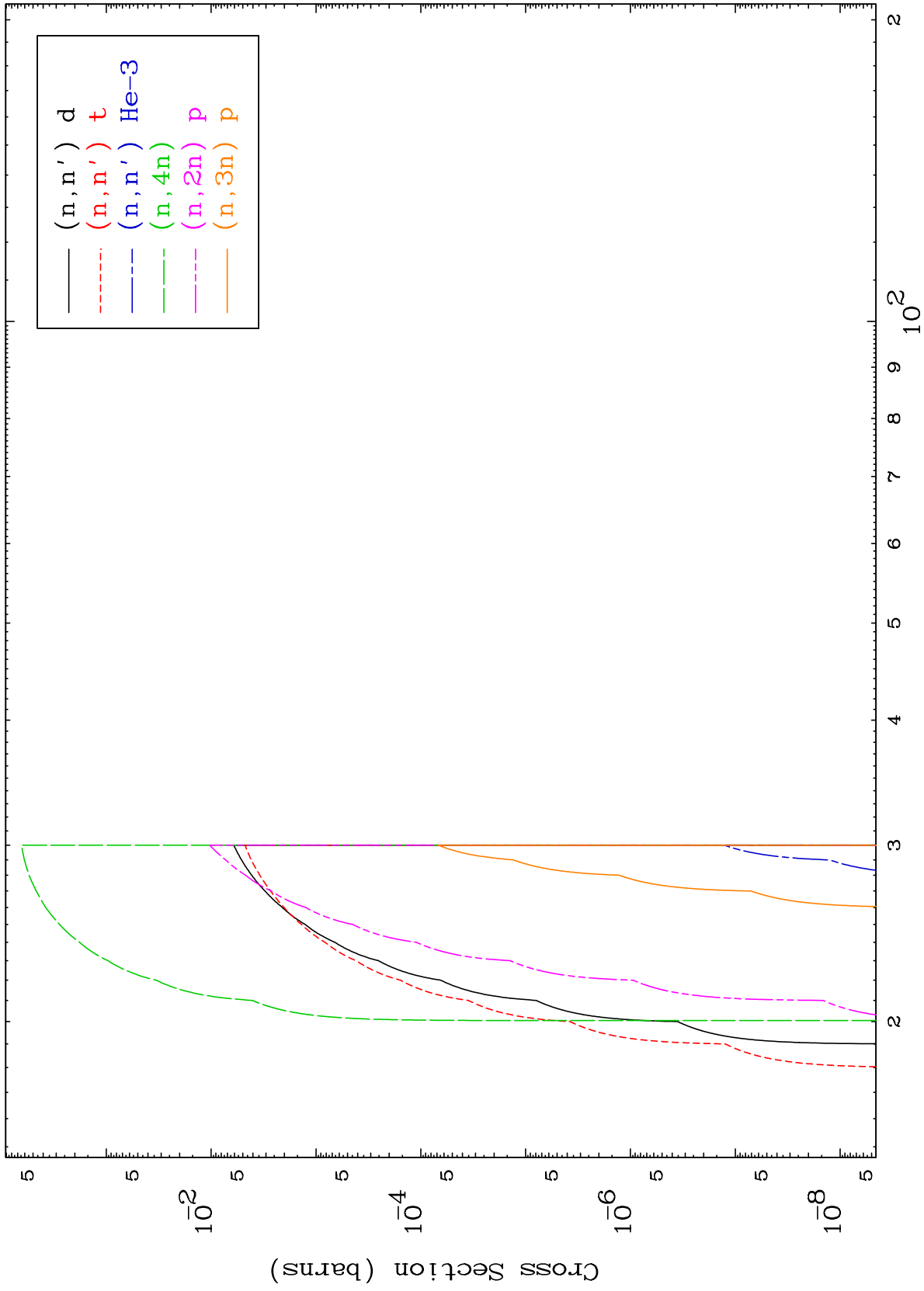
Incident Energy (MeV)

40-Zr-98

MAT 4049

Neutron Production  
293 Kelvin Cross Sections

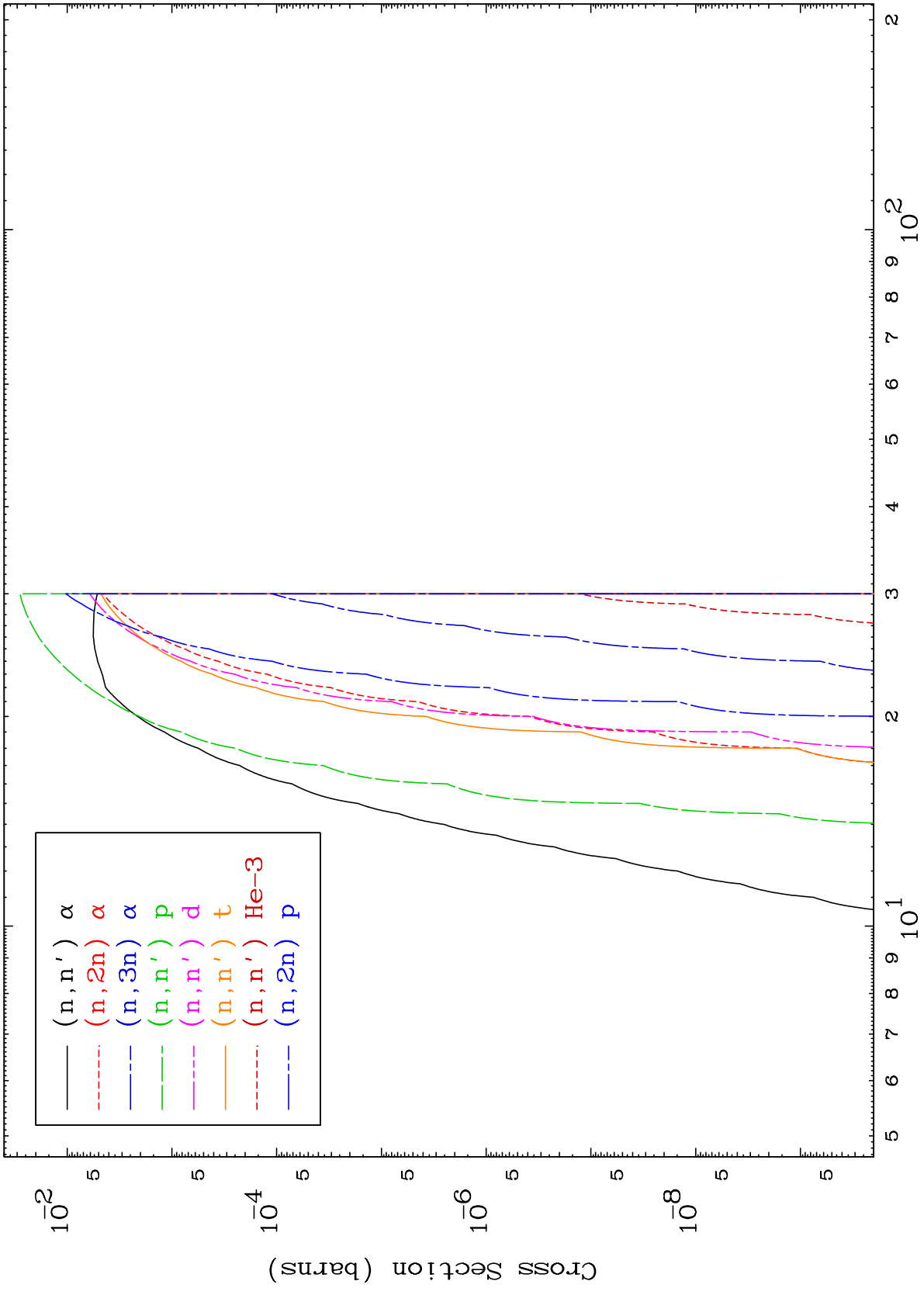
40-Zr-98



3

Incident Energy (MeV)

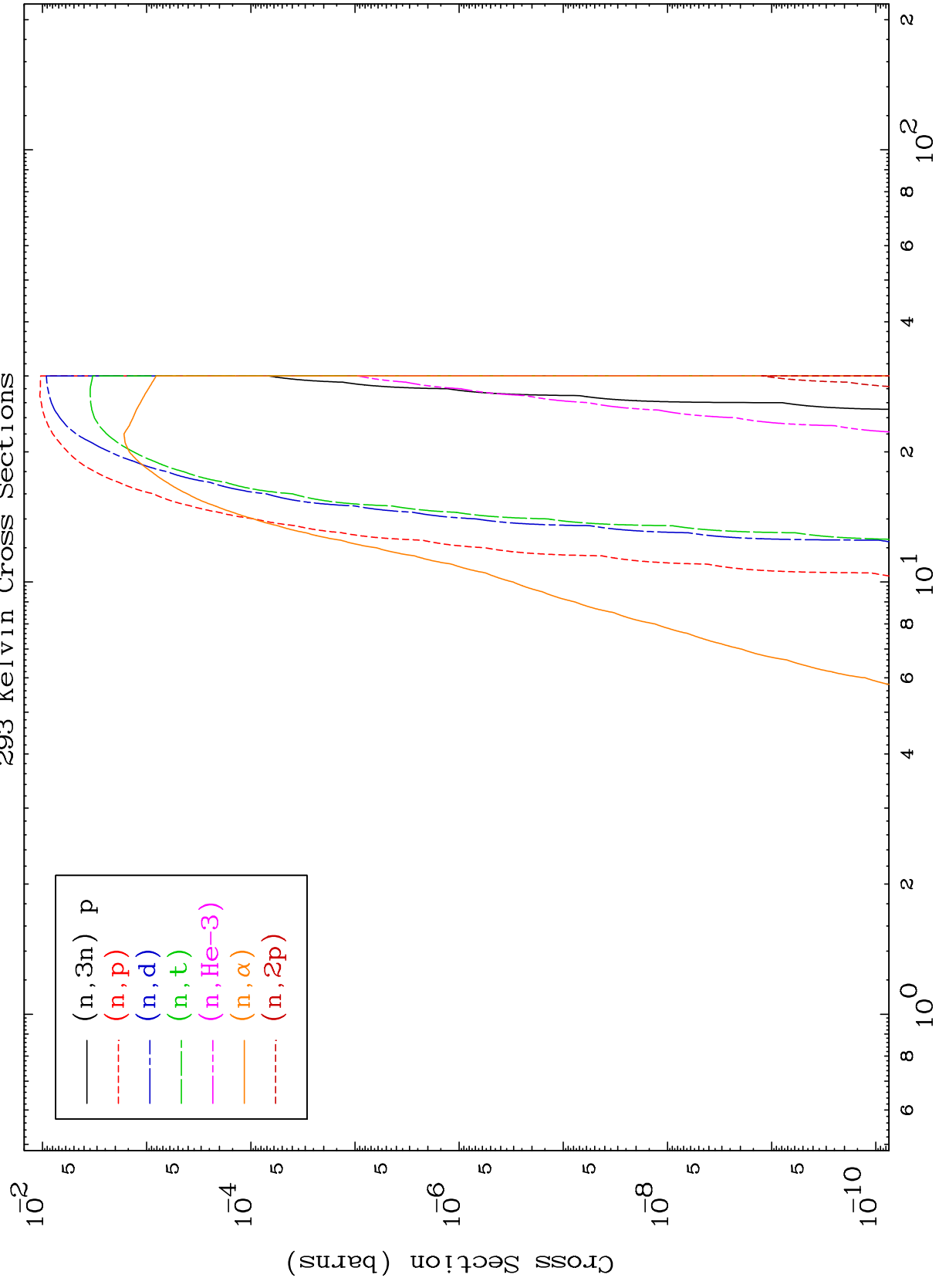
40-Zr-98



MAT 4049

Charged Particle  
293 Kelvin Cross Sections

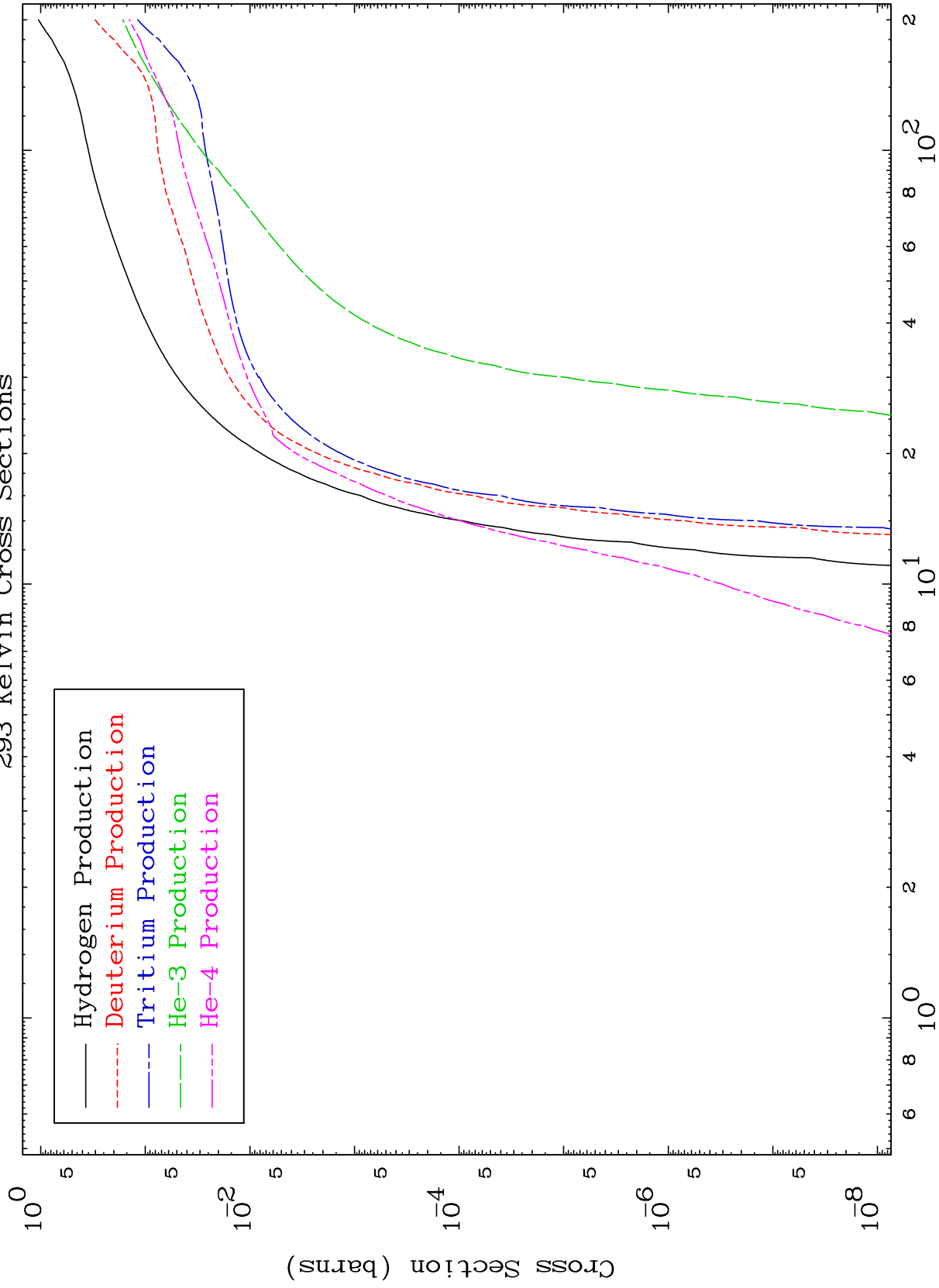
40-Zr-98



MAT 4049

Particle Production  
293 Kelvin Cross Sections

40-Zr-98



6

Incident Energy (MeV)

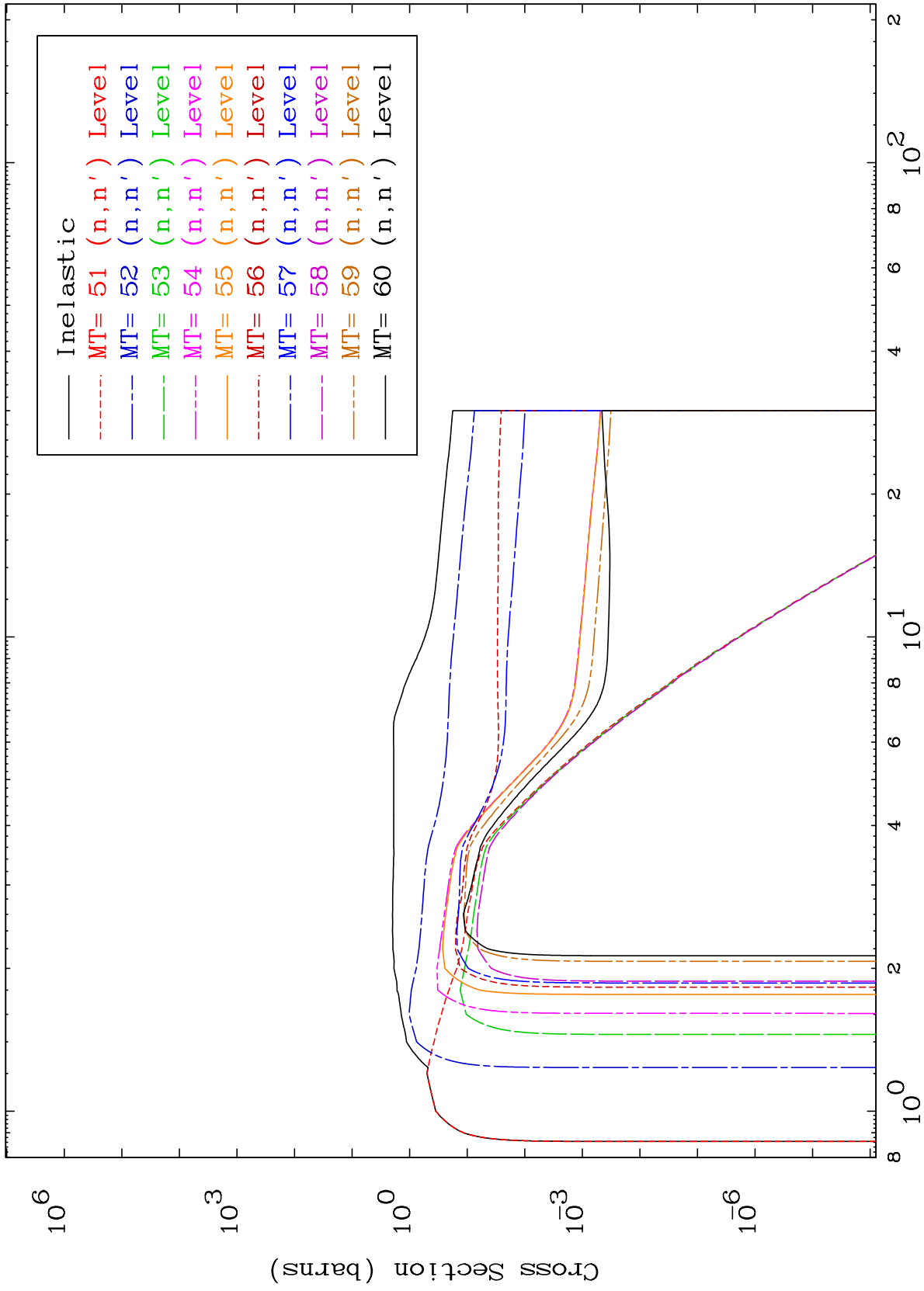
40-Zr-98

MAT 4049

(n,n') Level

40-Zr-98

293 Kelvin Cross Sections



7

Incident Energy (MeV)

40-Zr-98

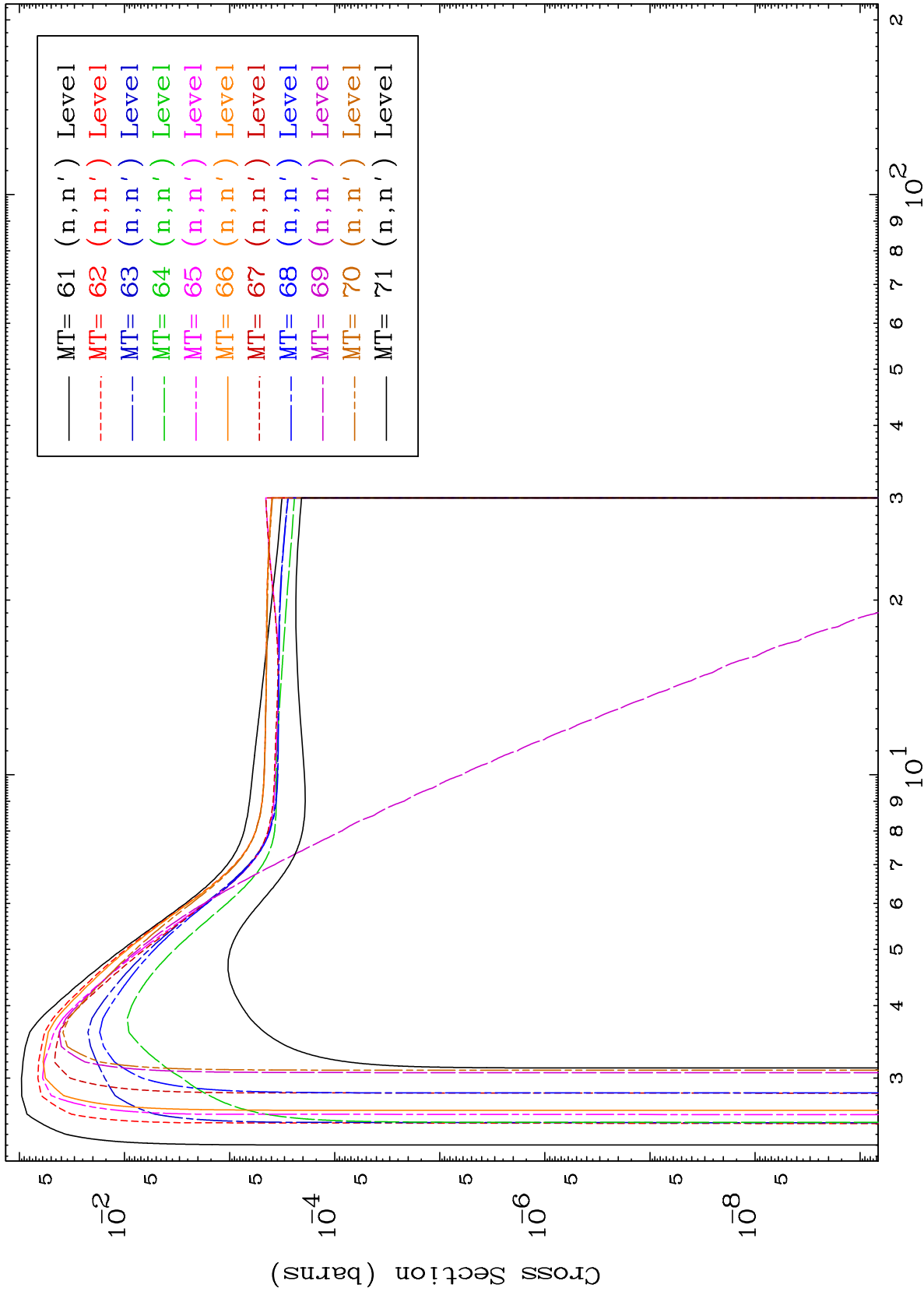


MAT 4049

(n,n') Level

40-Zr-98

293 Kelvin Cross Sections



8

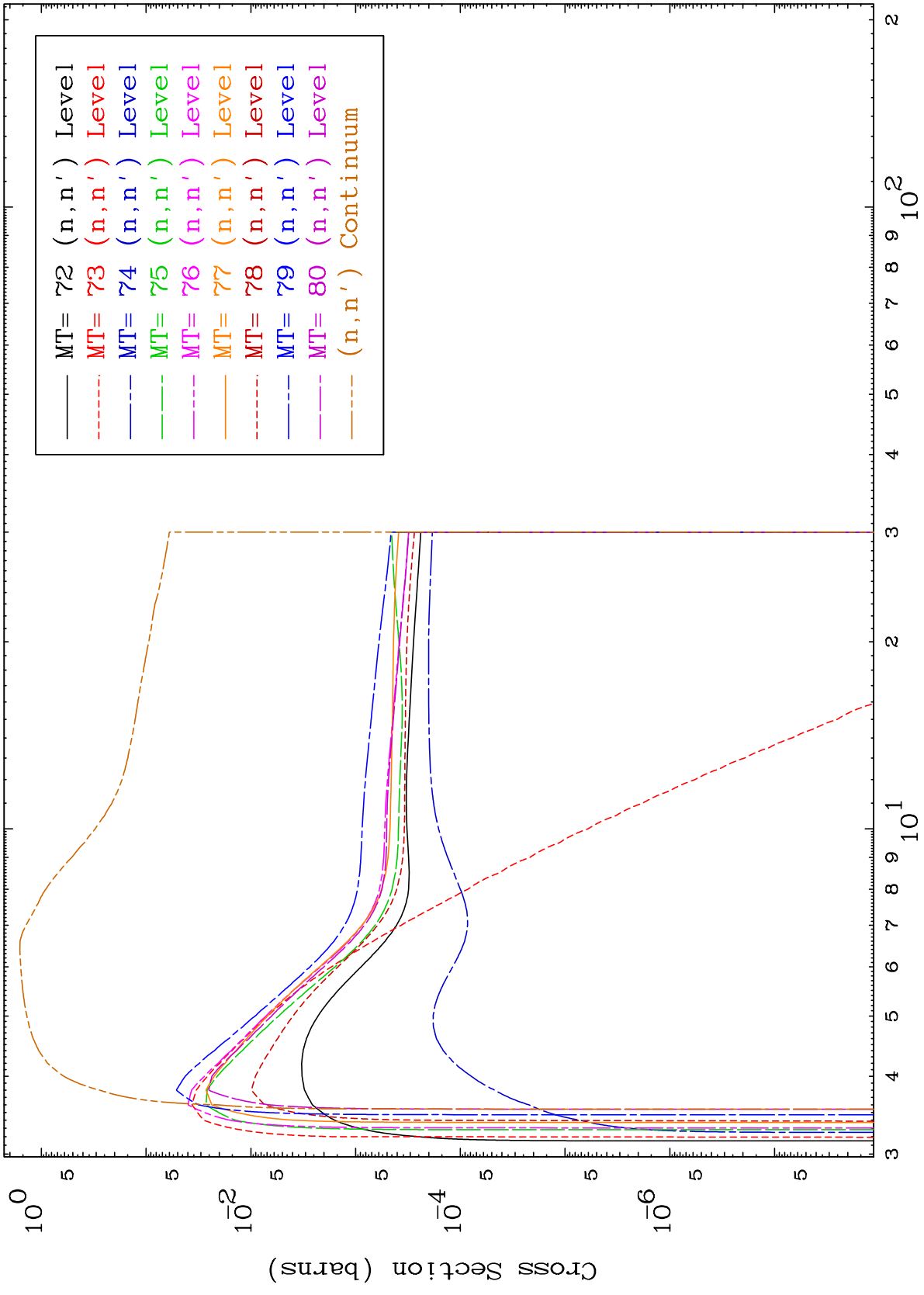
Incident Energy (MeV)

40-Zr-98

MAT 4049

(n,n') Level  
293 Kelvin Cross Sections

40-Zr-98



9

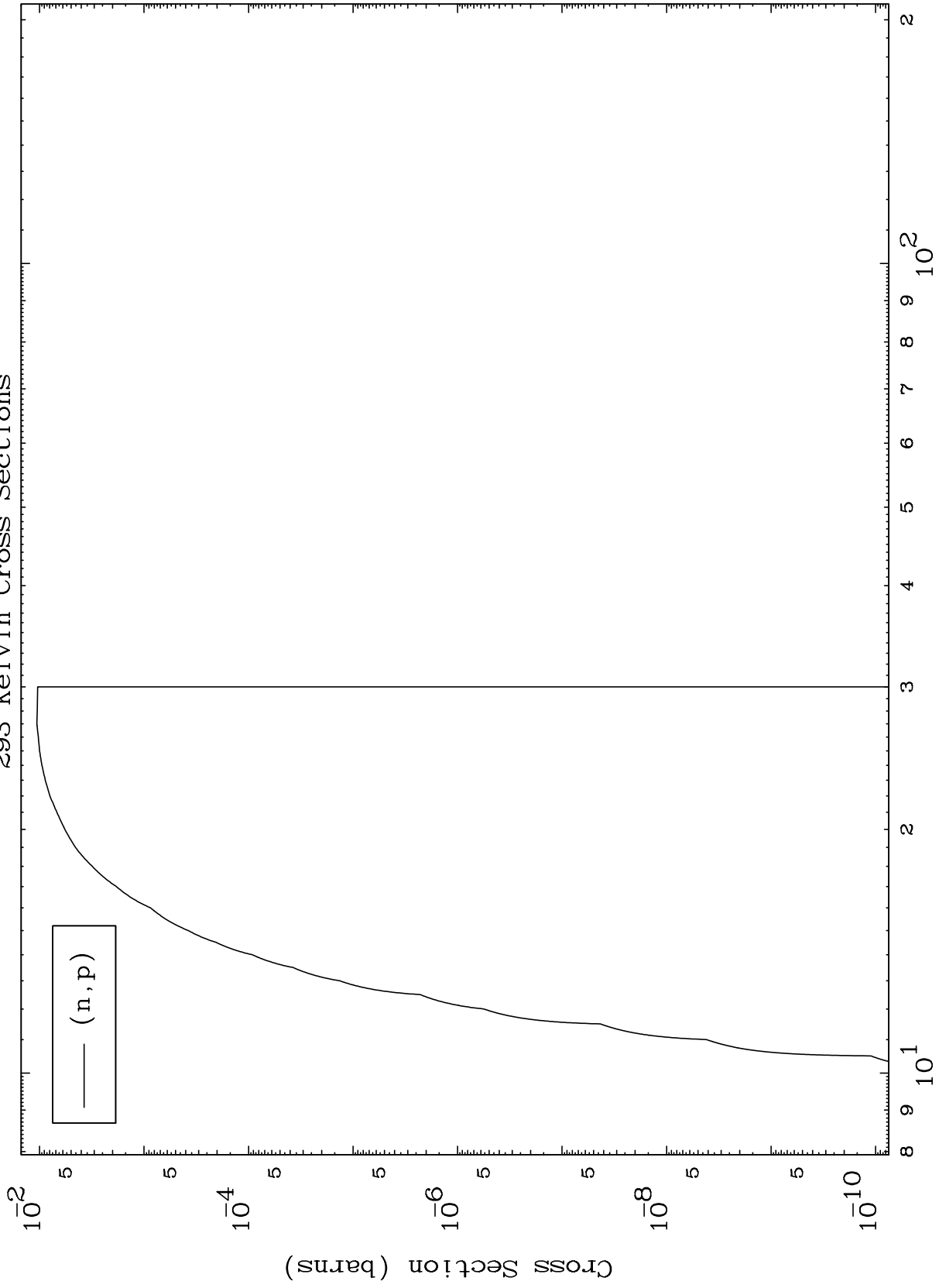
Incident Energy (MeV)

40-Zr-98

MAT 4049

(n,p) Levels  
293 Kelvin Cross Sections

40-Zr-98



10

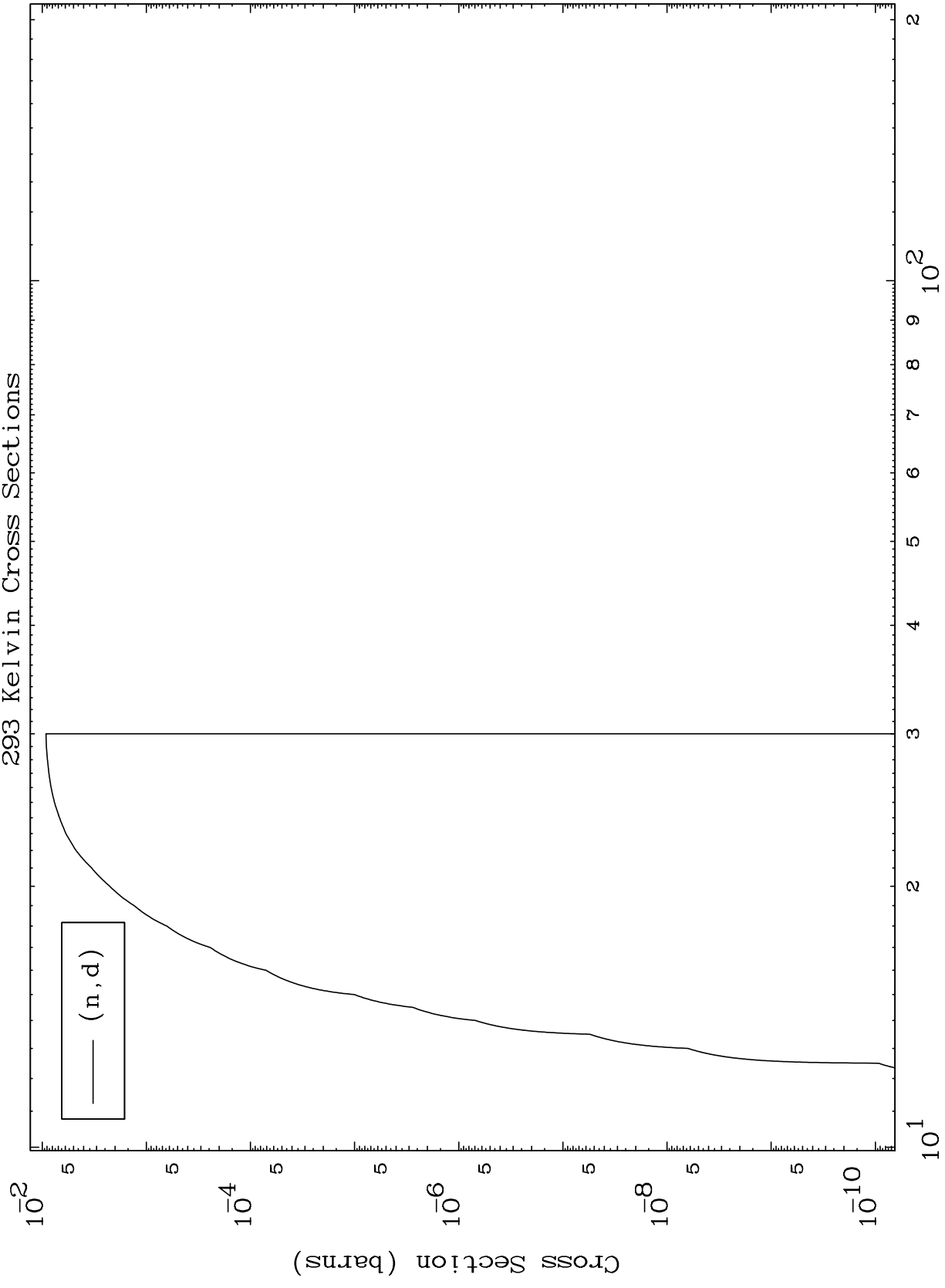
Incident Energy (MeV)

40-Zr-98

MAT 4049

(n,d) Levels  
293 Kelvin Cross Sections

40-Zr-98



11

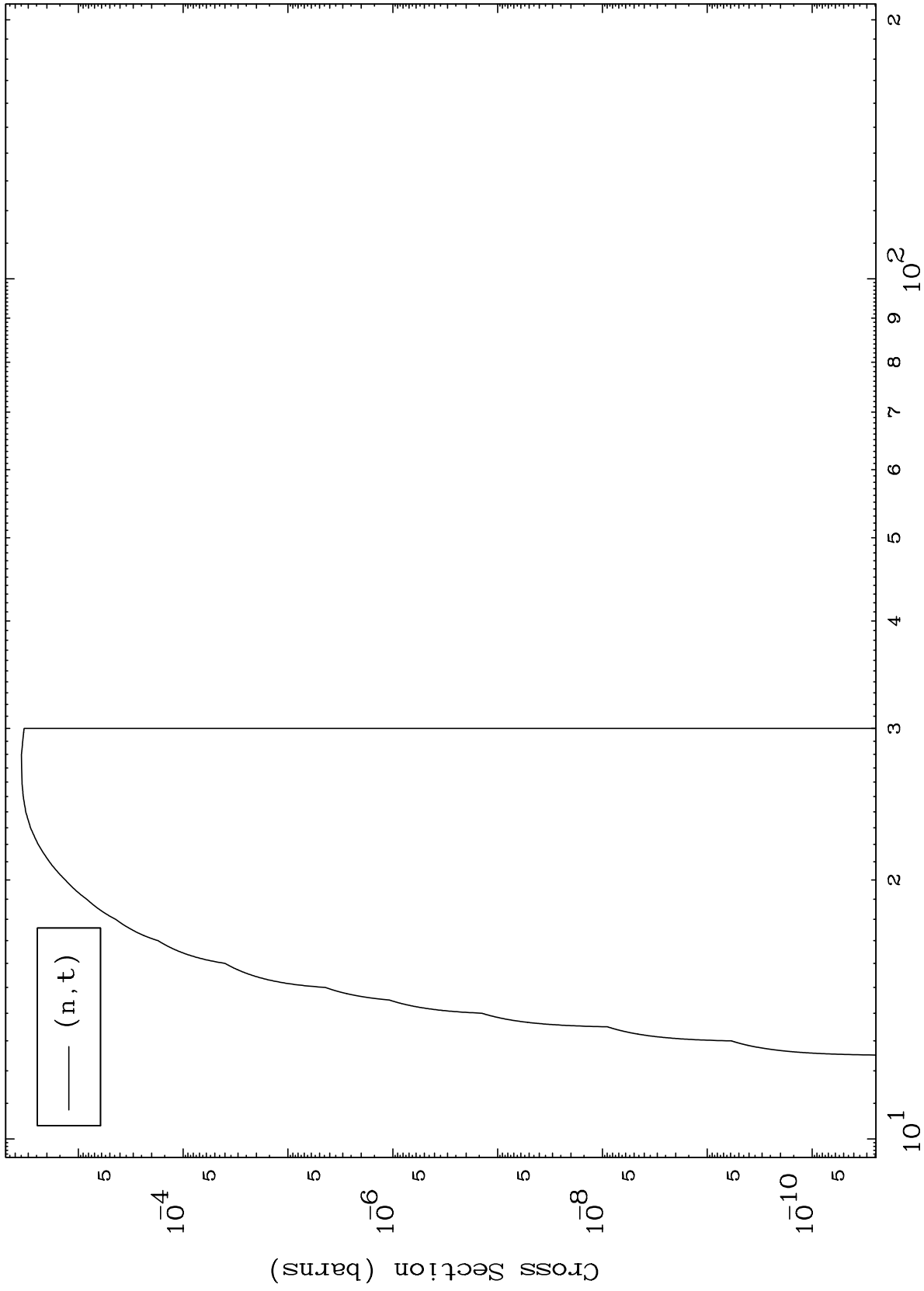
Incident Energy (MeV)

40-Zr-98

MAT 4049

(n,t) Levels  
293 Kelvin Cross Sections

40-Zr-98



12

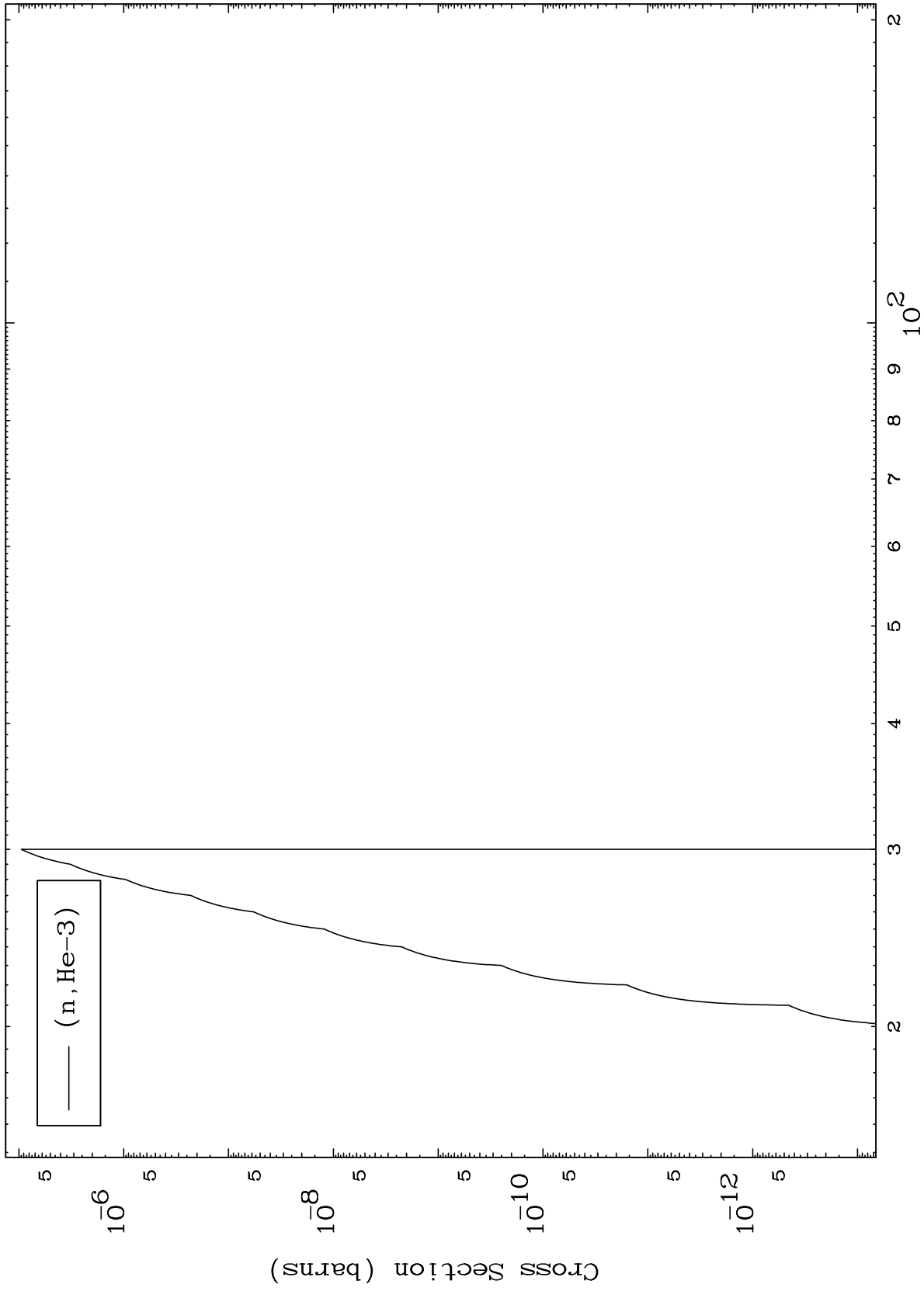
Incident Energy (MeV)

40-Zr-98

MAT 4049

(n,He3) Levels  
293 Kelvin Cross Sections

40-Zr-98



13

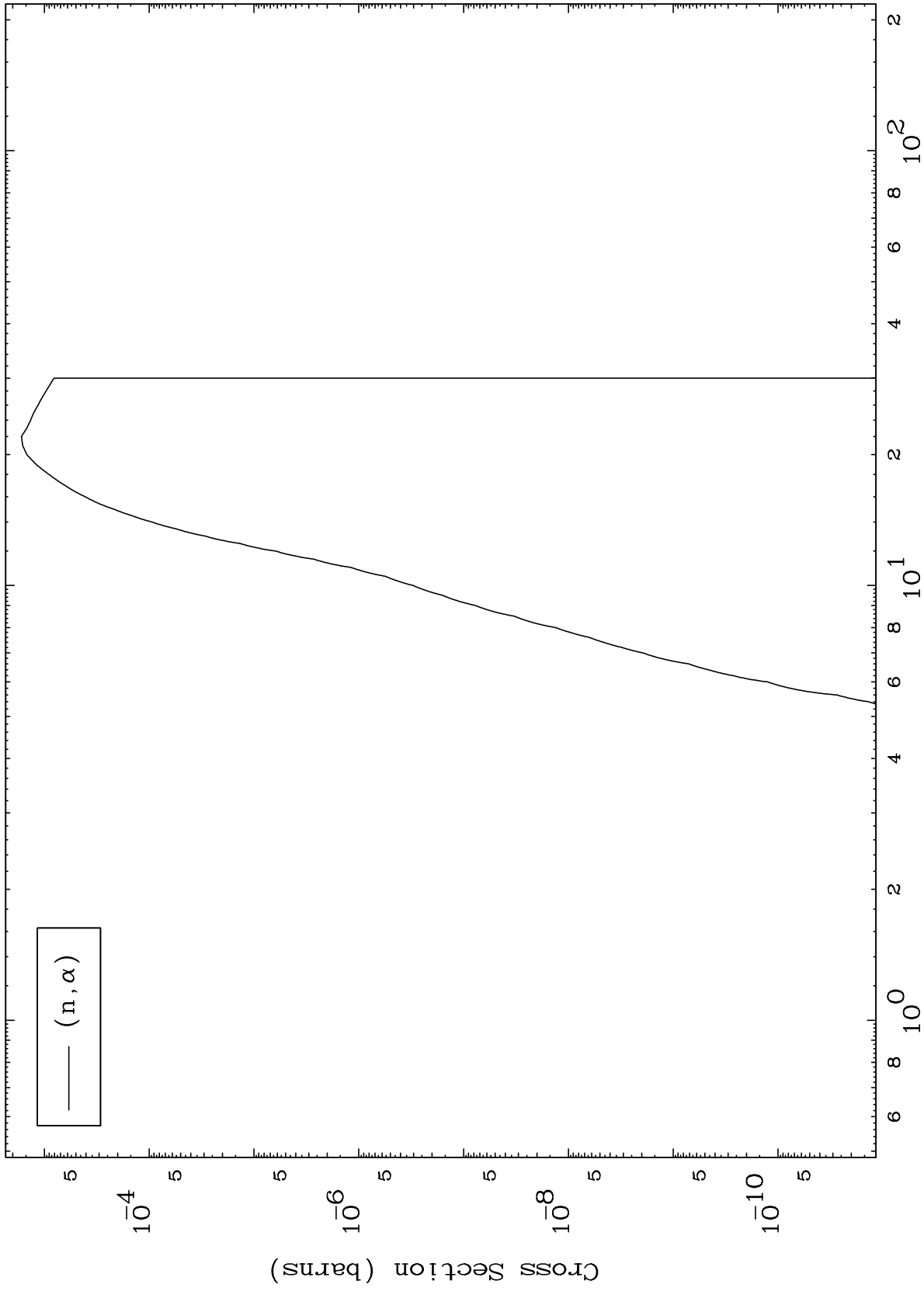
Incident Energy (MeV)

40-Zr-98

MAT 4049

(n,α) Levels  
293 Kelvin Cross Sections

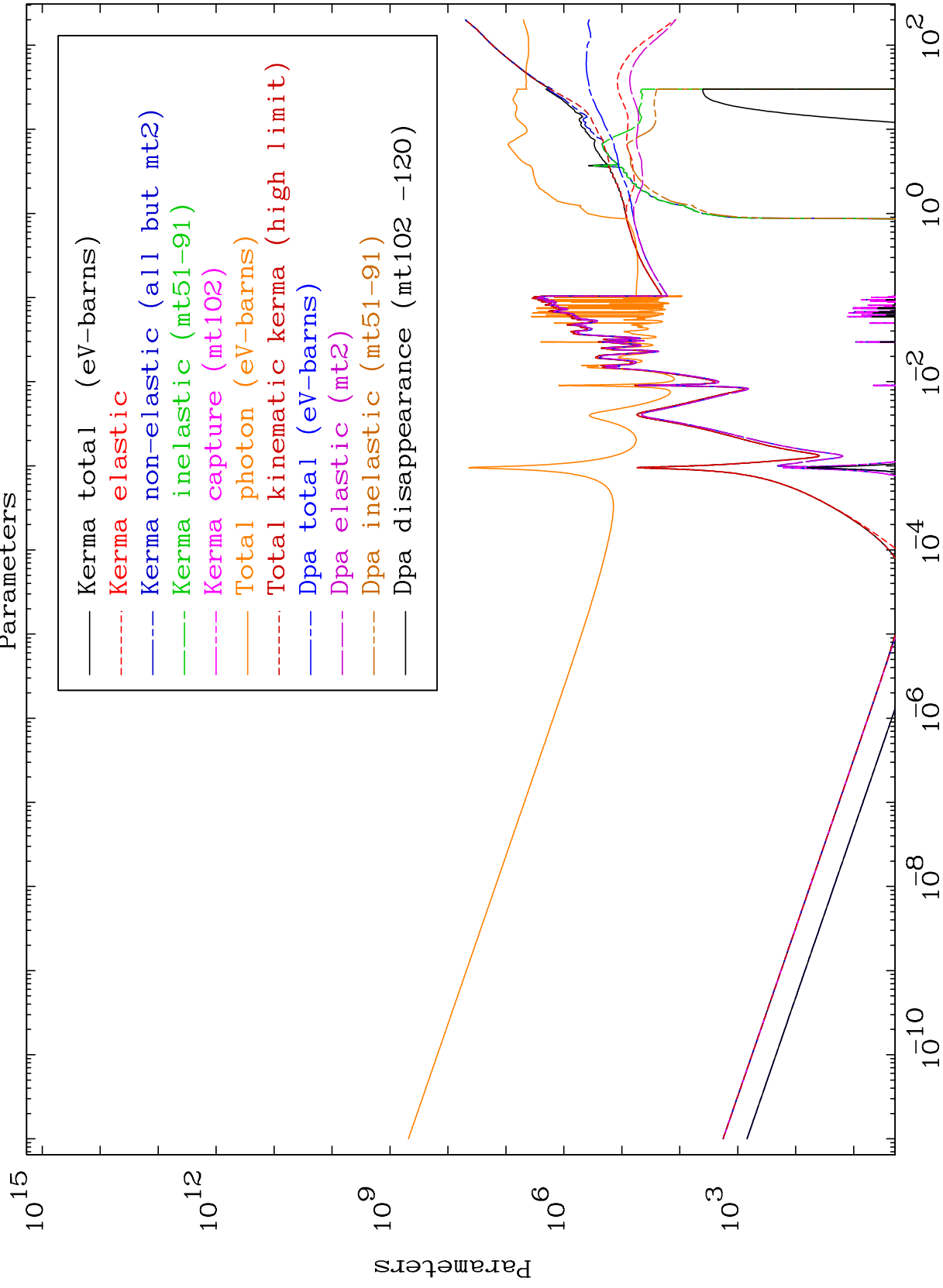
40-Zr-98



14

Incident Energy (MeV)

40-Zr-98

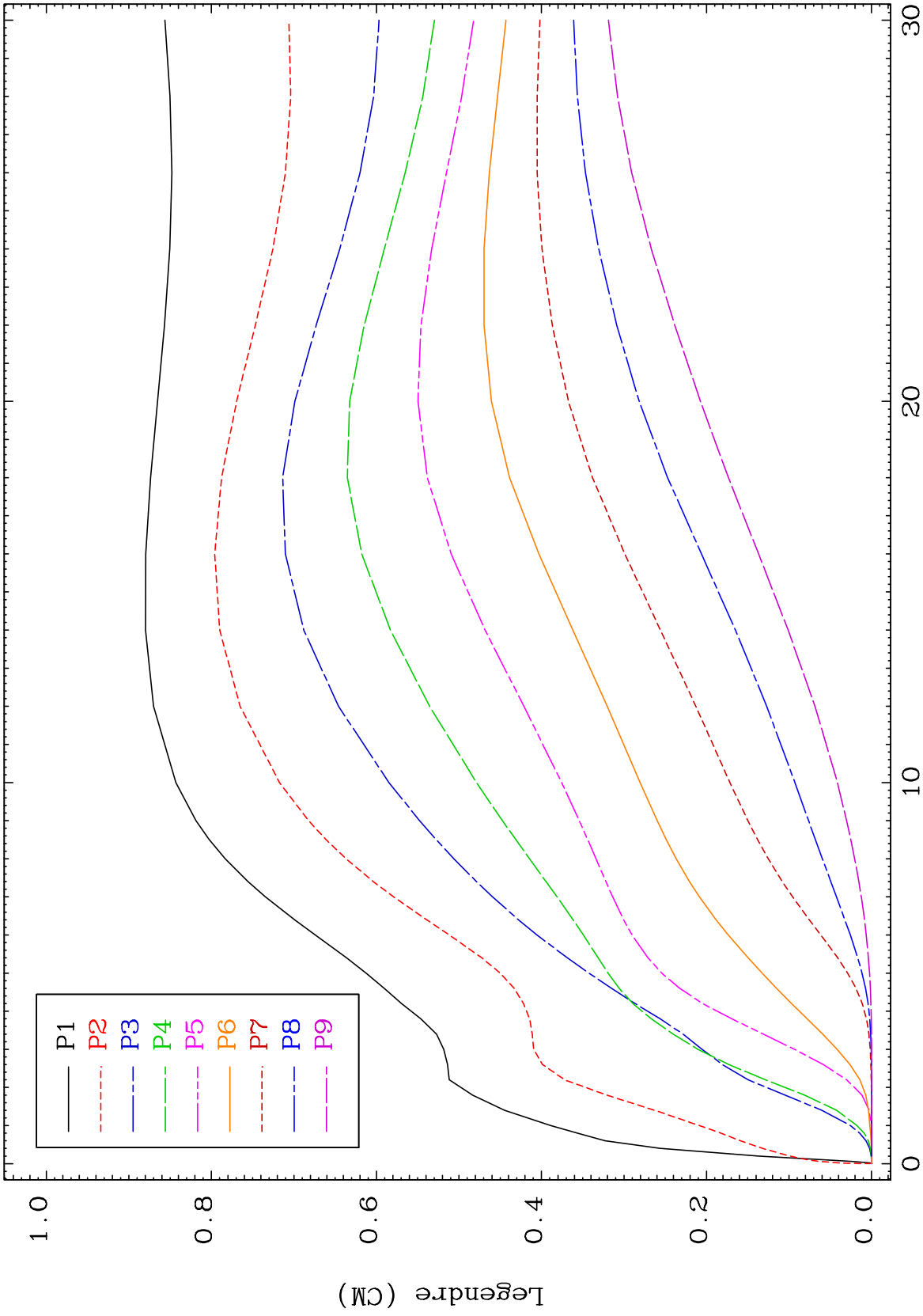




MAT 4049

Elastic Legendre Coefficients

40-Zr-98



16

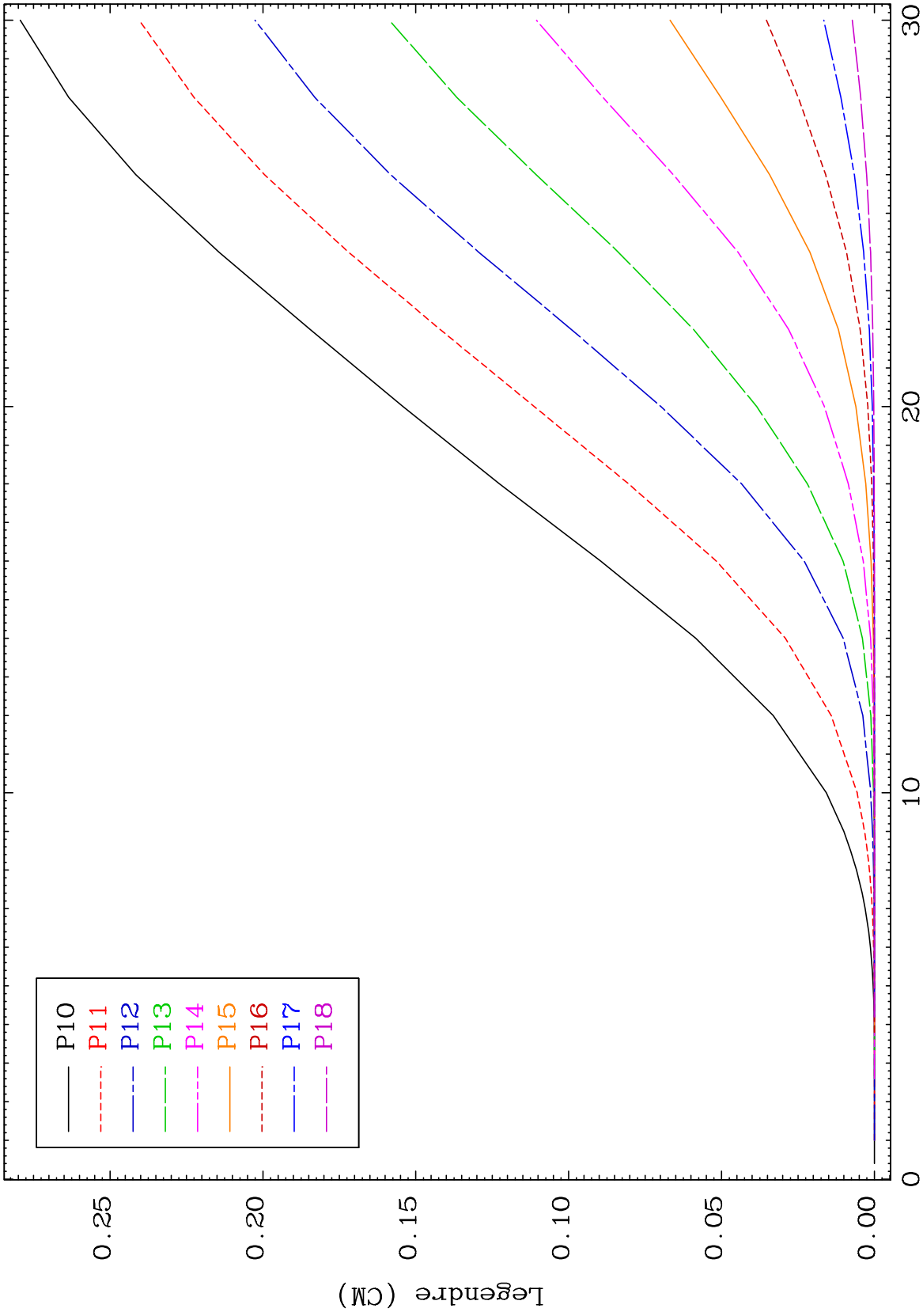
Incident Energy (MeV)

40-Zr-98

MAT 4049

Elastic Legendre Coefficients

40-Zr-98



17

Incident Energy (MeV)

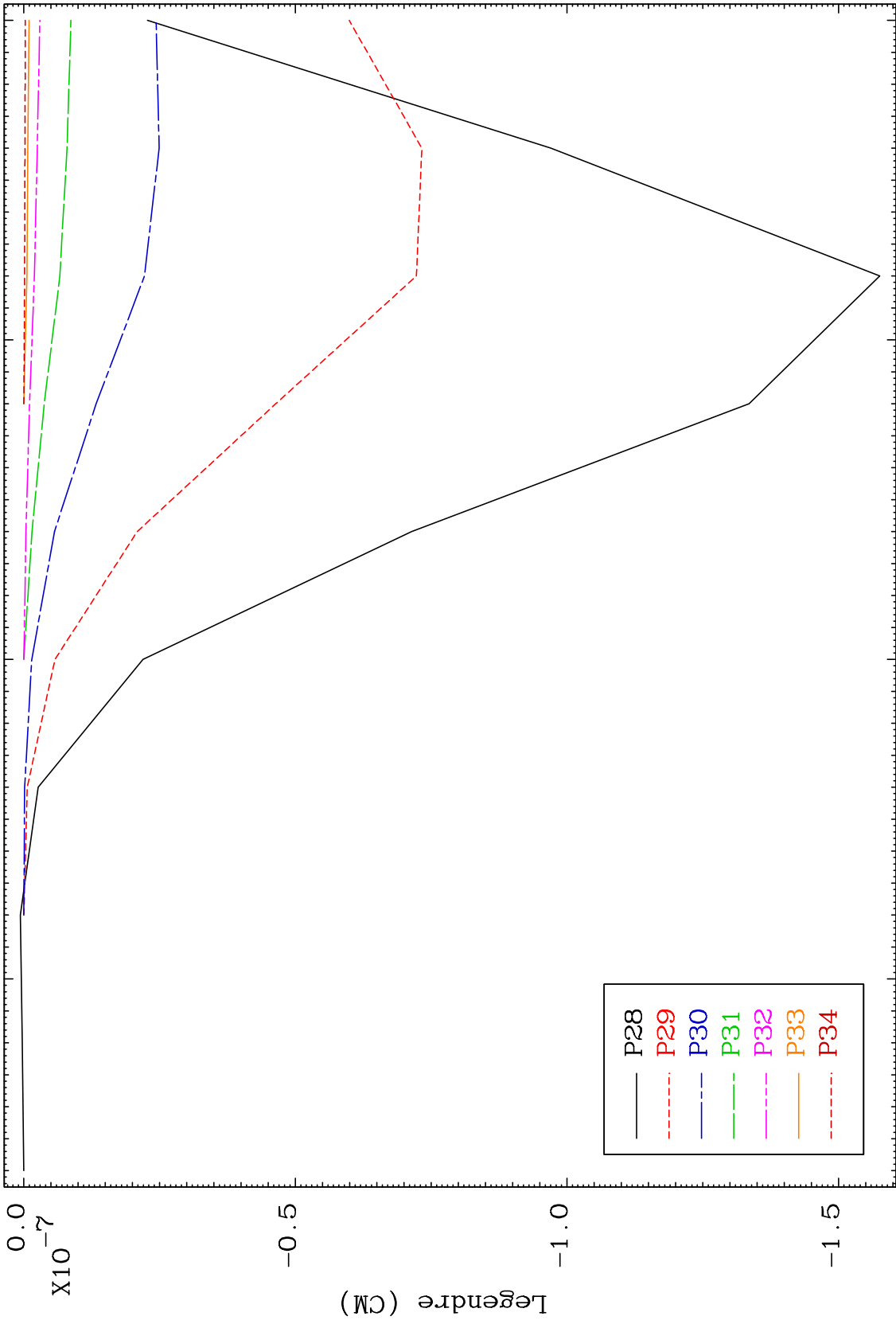
40-Zr-98



MAT 4049

40-Zr-98

Elastic Legendre Coefficients

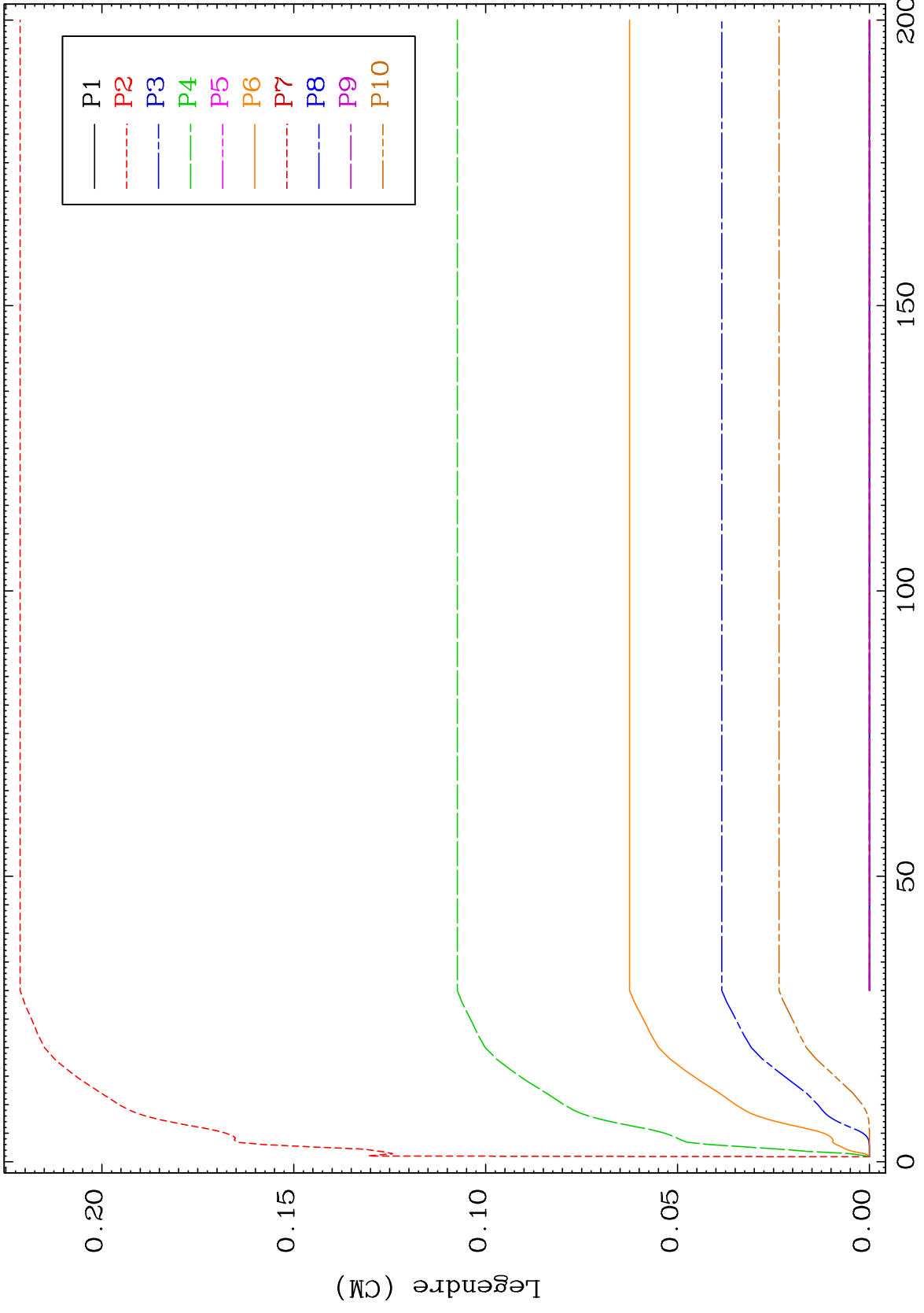


19

Incident Energy (MeV)

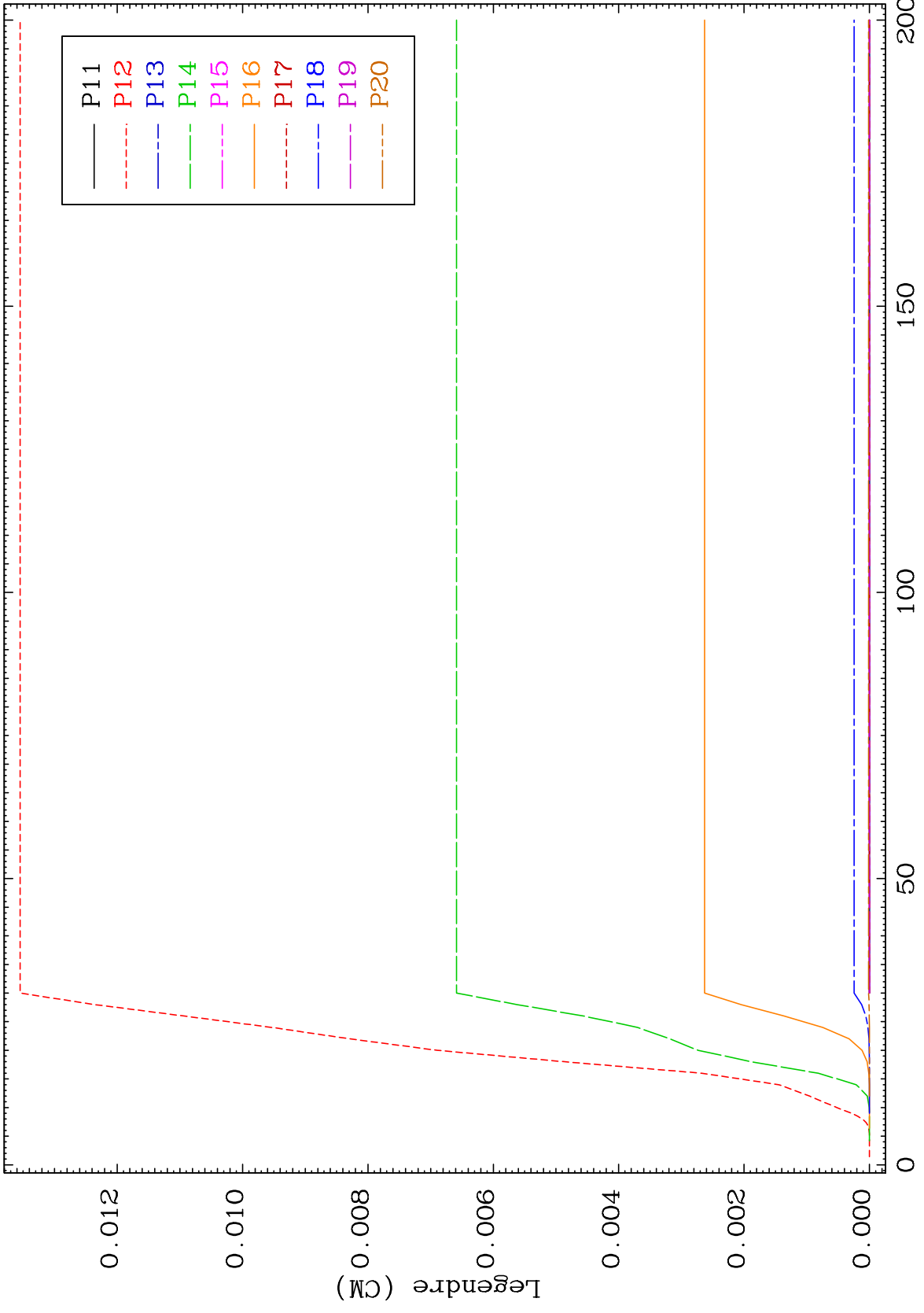
40-Zr-98

MAT 4049 MT= 51 (n,n') Level Legendre Coefficients 40-Zr-98



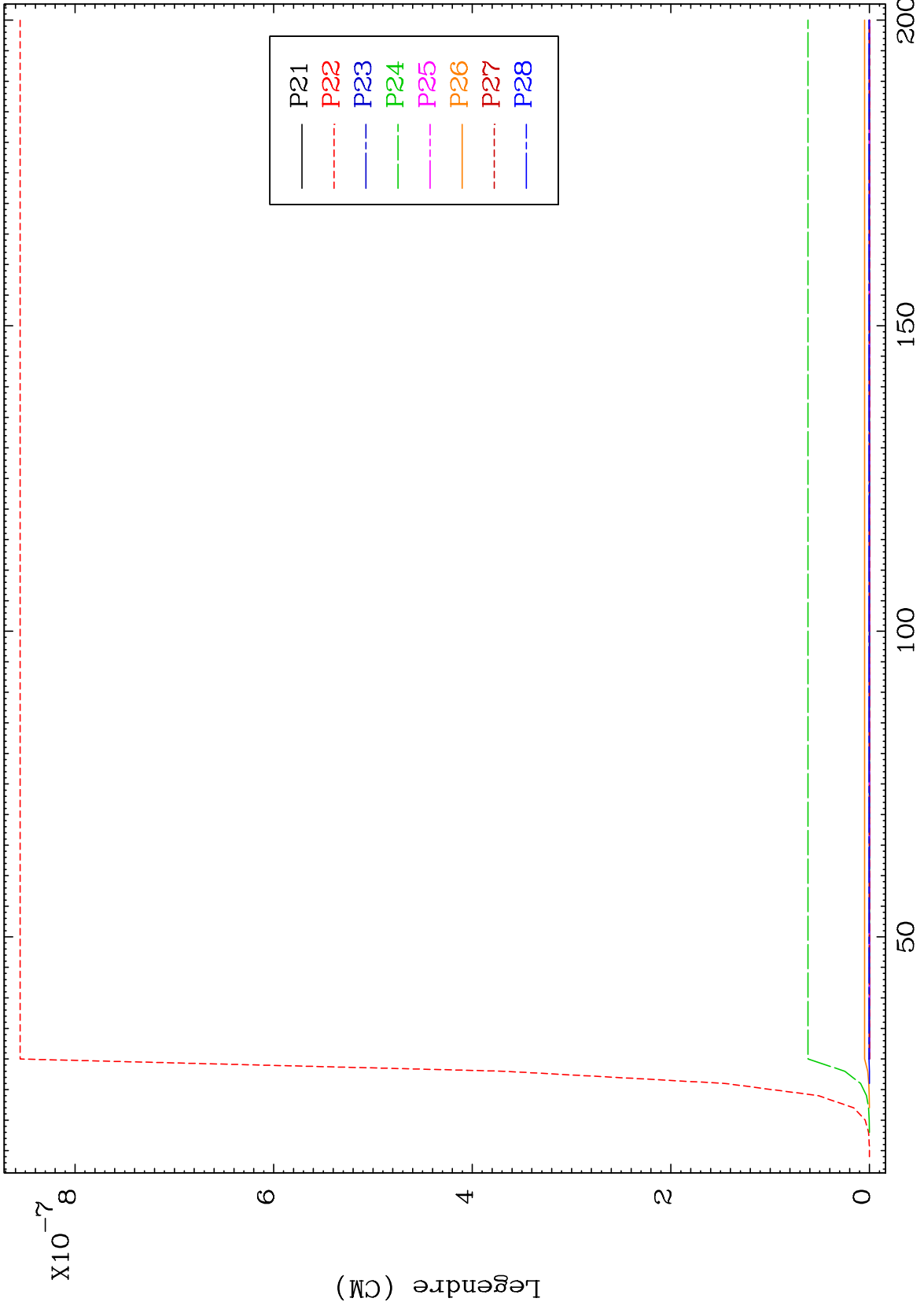
40-Zr-98

MAT 4049 MT= 51 (n,n') Level Legendre Coefficients 40-Zr-98



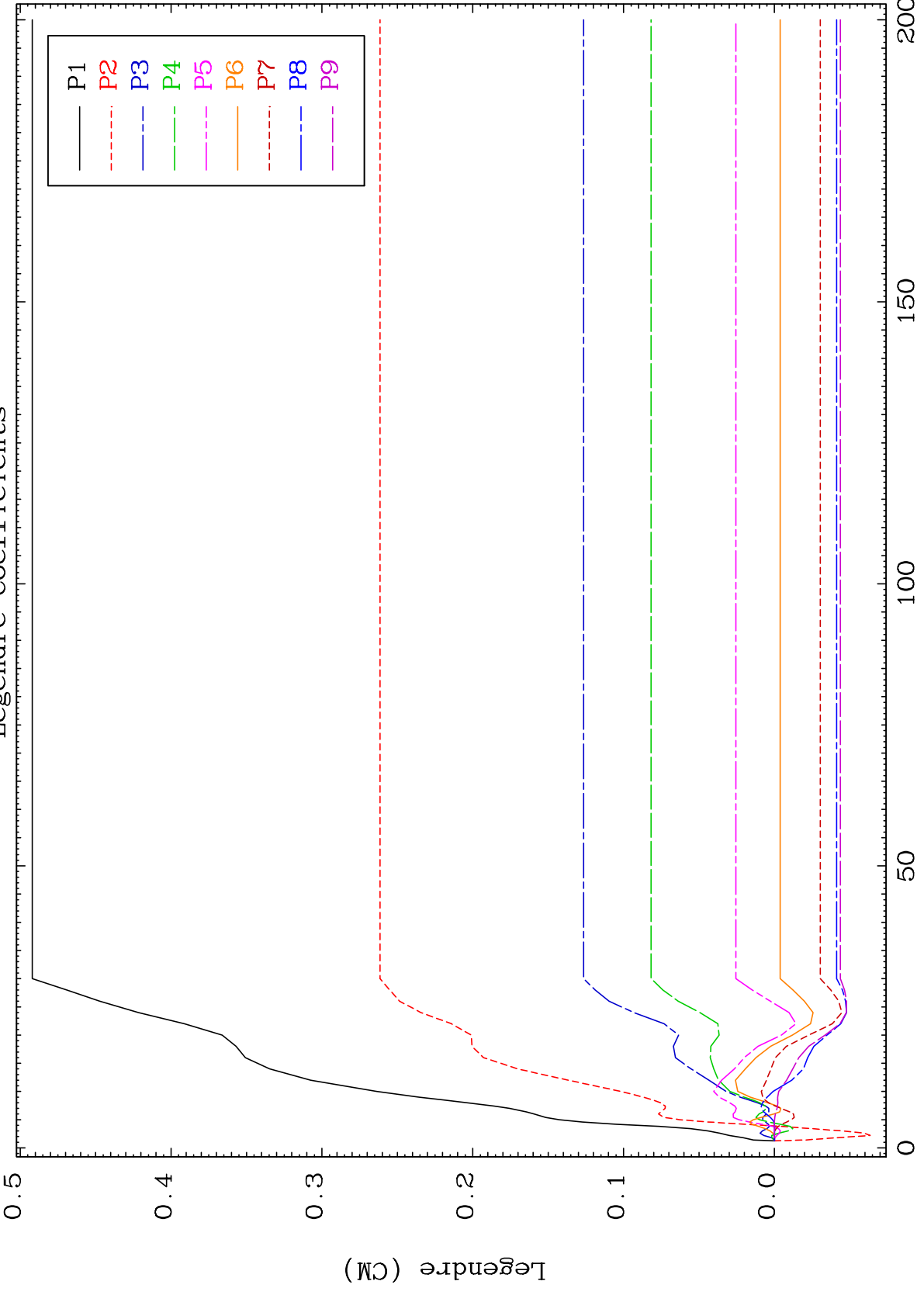
21 40-Zr-98

MAT 4049 MT= 51 (n,n') Level Legendre Coefficients 40-Zr-98



22 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 52 (n,n') Level Legendre Coefficients 40-Zr-98

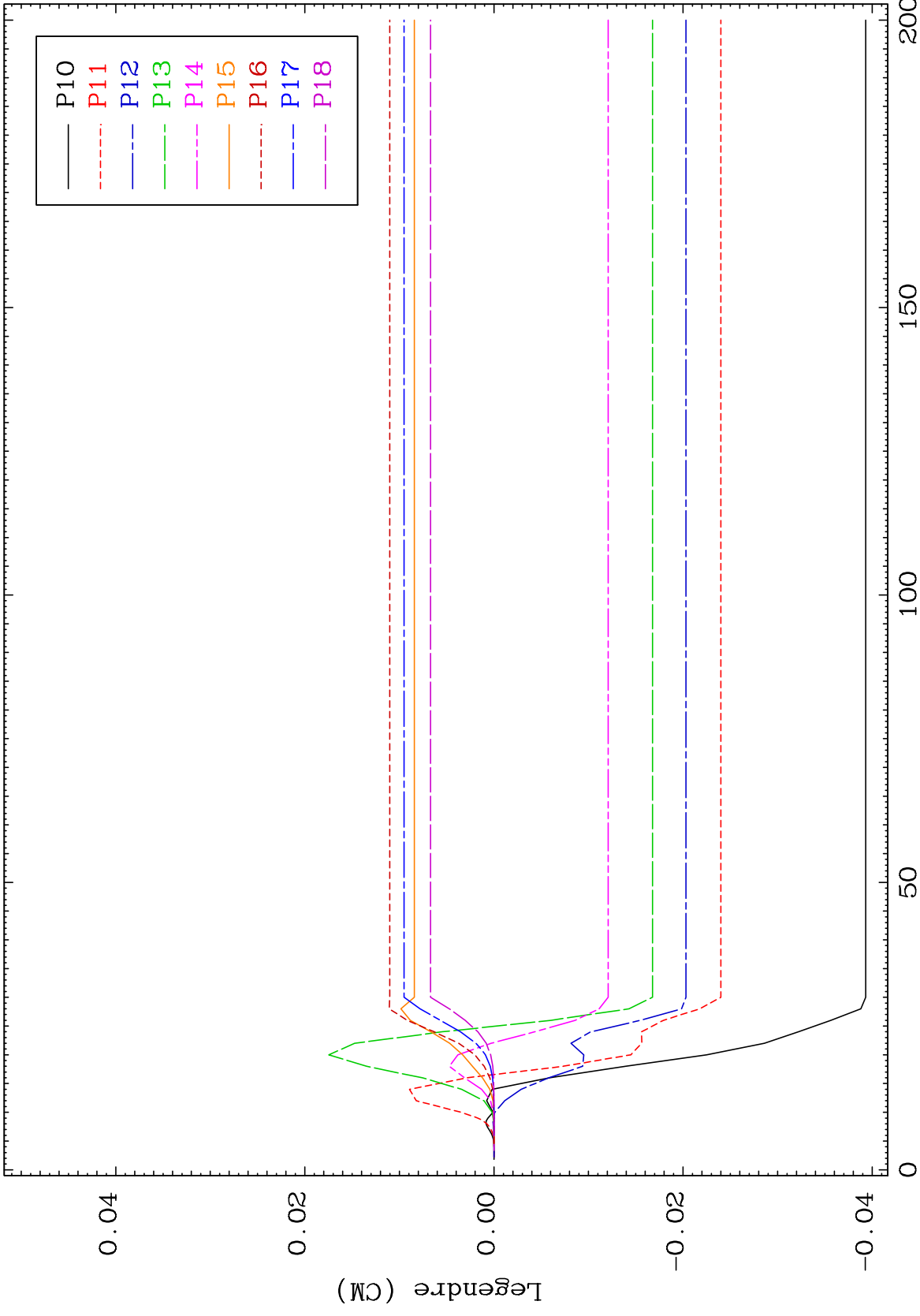




MAT 4049

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

40-Zr-98



24

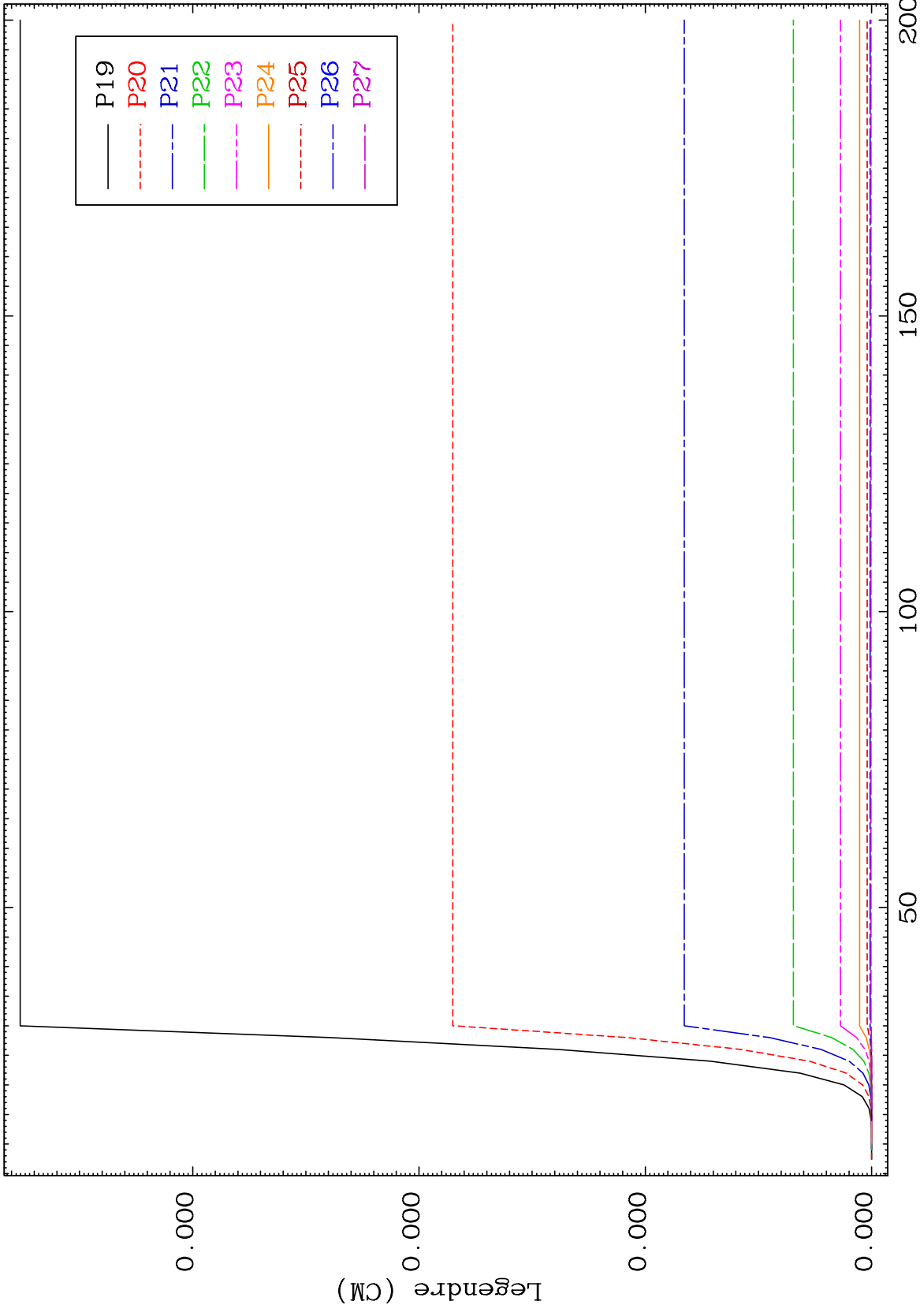
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98



25

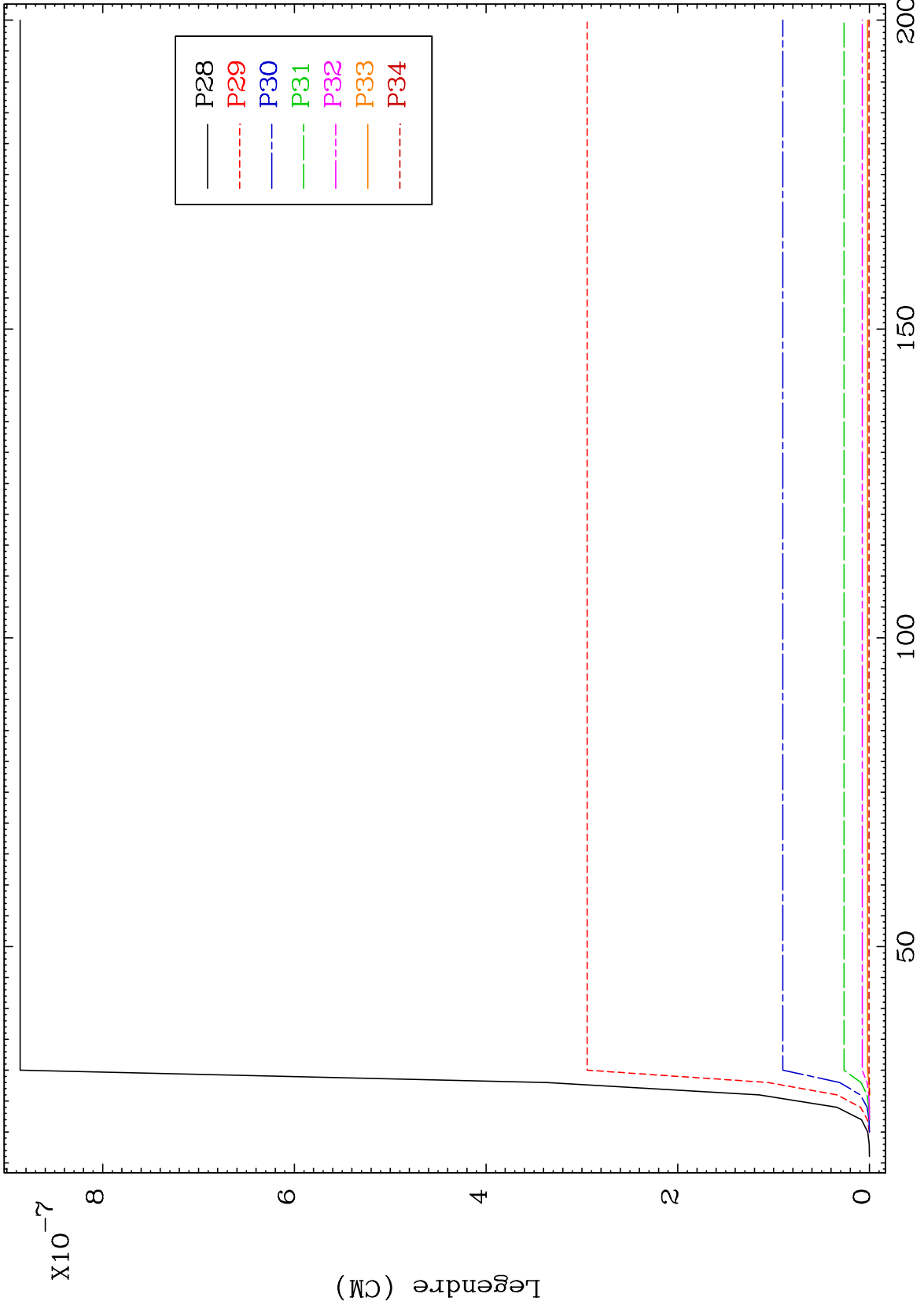
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98

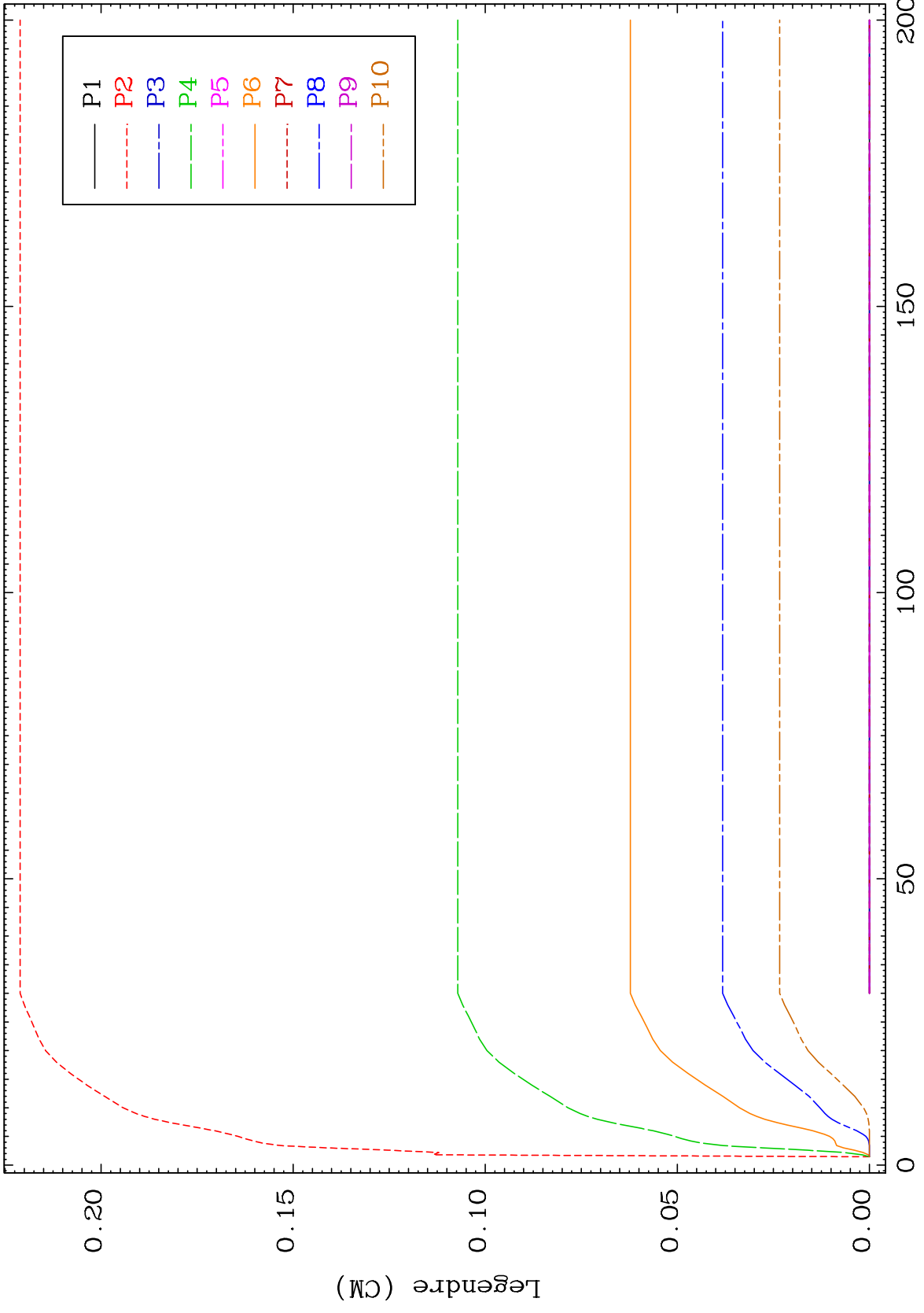


26

Incident Energy (MeV)

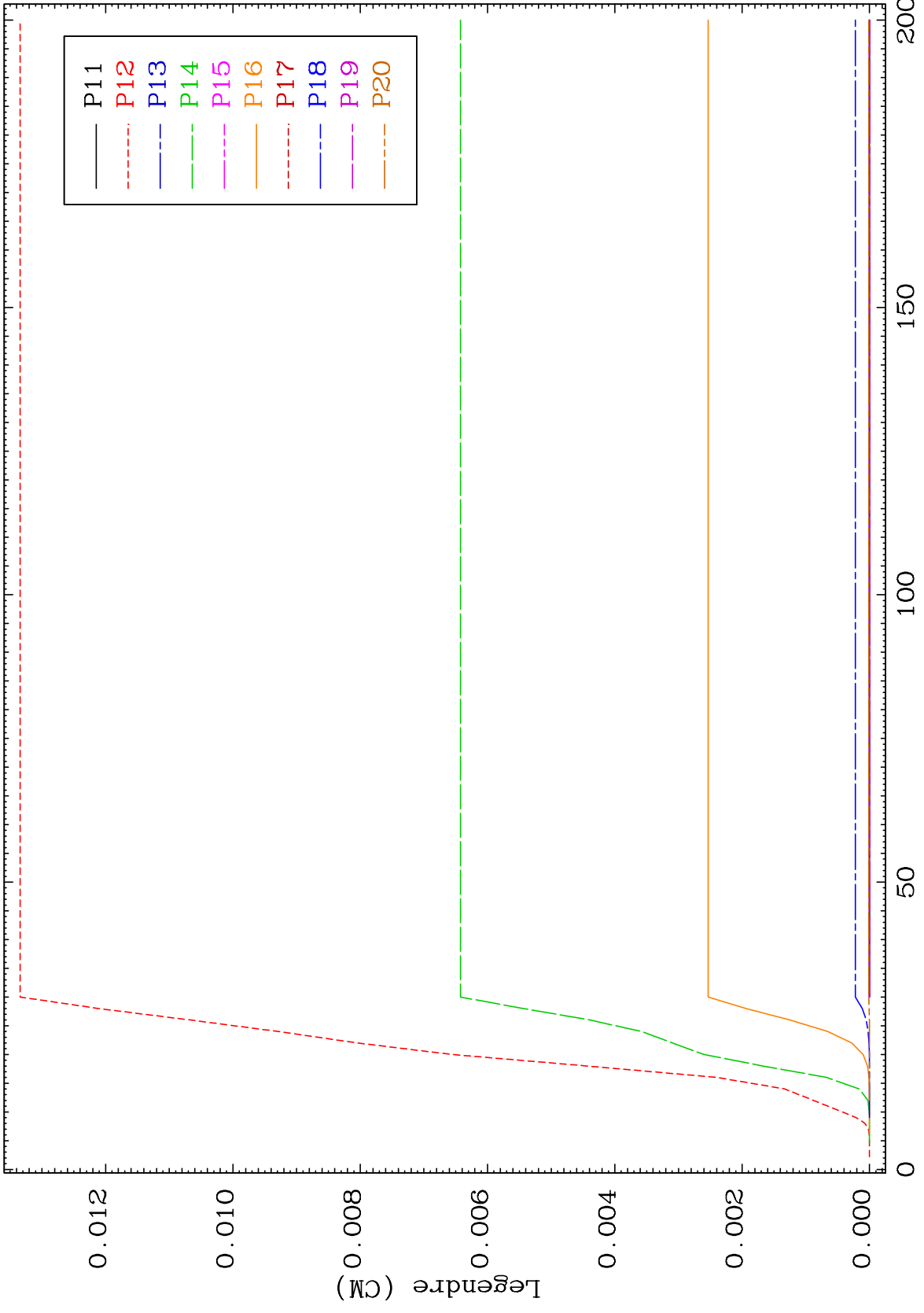
40-Zr-98

MAT 4049 MT= 53 (n,n') Level Legendre Coefficients 40-Zr-98



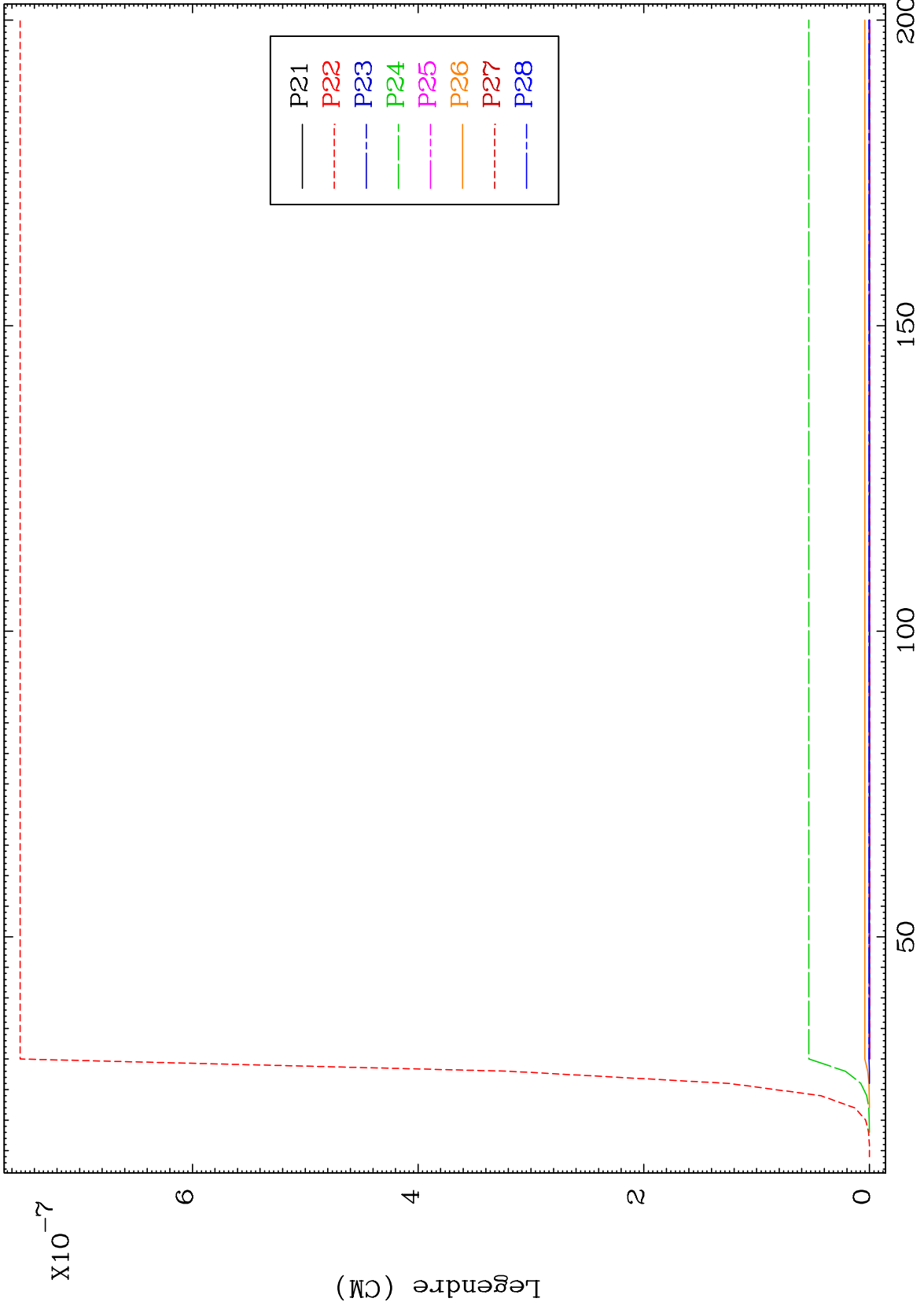
27 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 53 (n,n') Level Legendre Coefficients 40-Zr-98



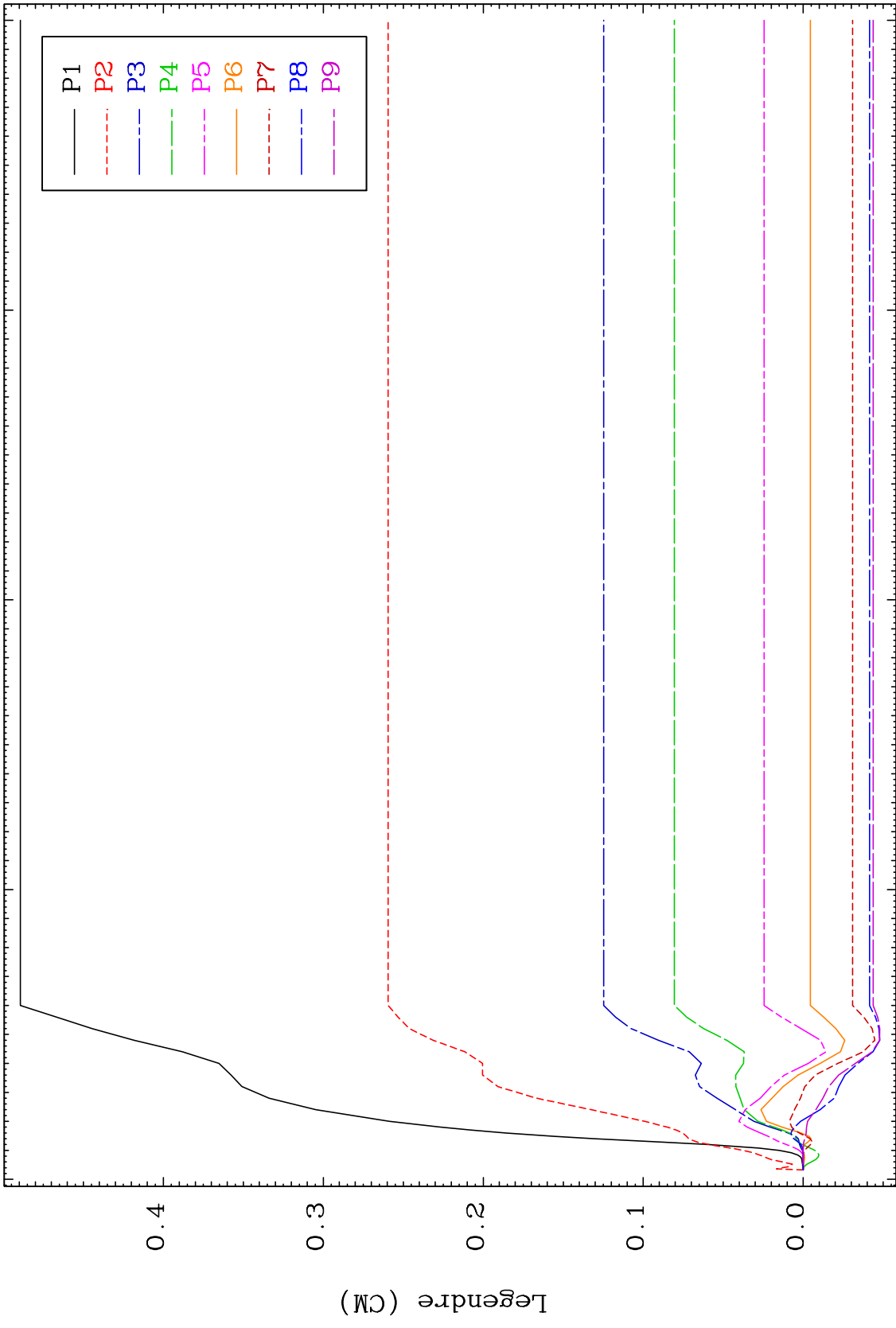
28 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 53 (n,n') Level Legendre Coefficients 40-Zr-98



29 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 54 (n,n') Level Legendre Coefficients 40-Zr-98

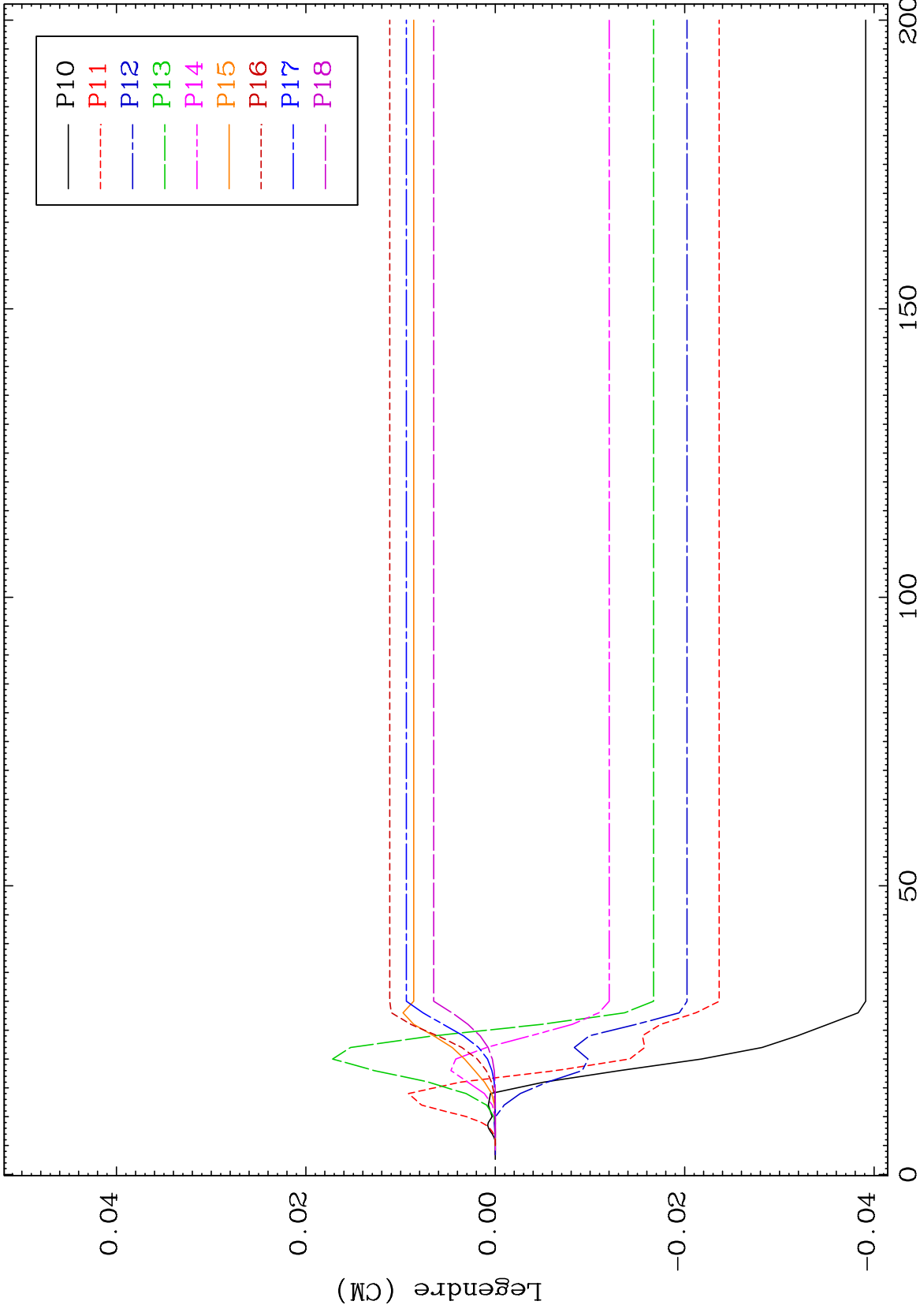


Legendre (CM) Incident Energy (MeV) 40-Zr-98

MAT 4049

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

40-Zr-98



31

Incident Energy (MeV)

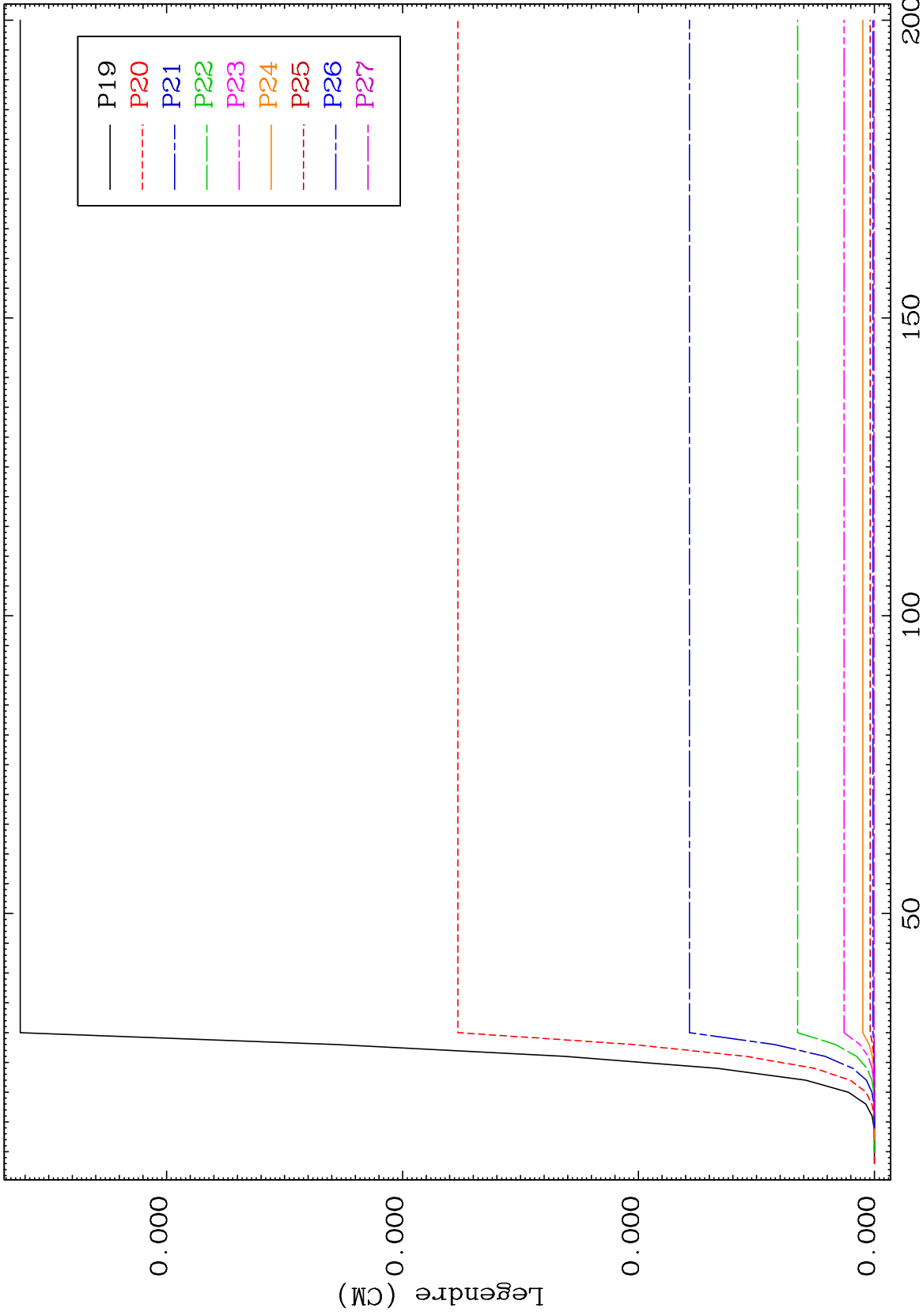
40-Zr-98



MAT 4049

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

40-Zr-98

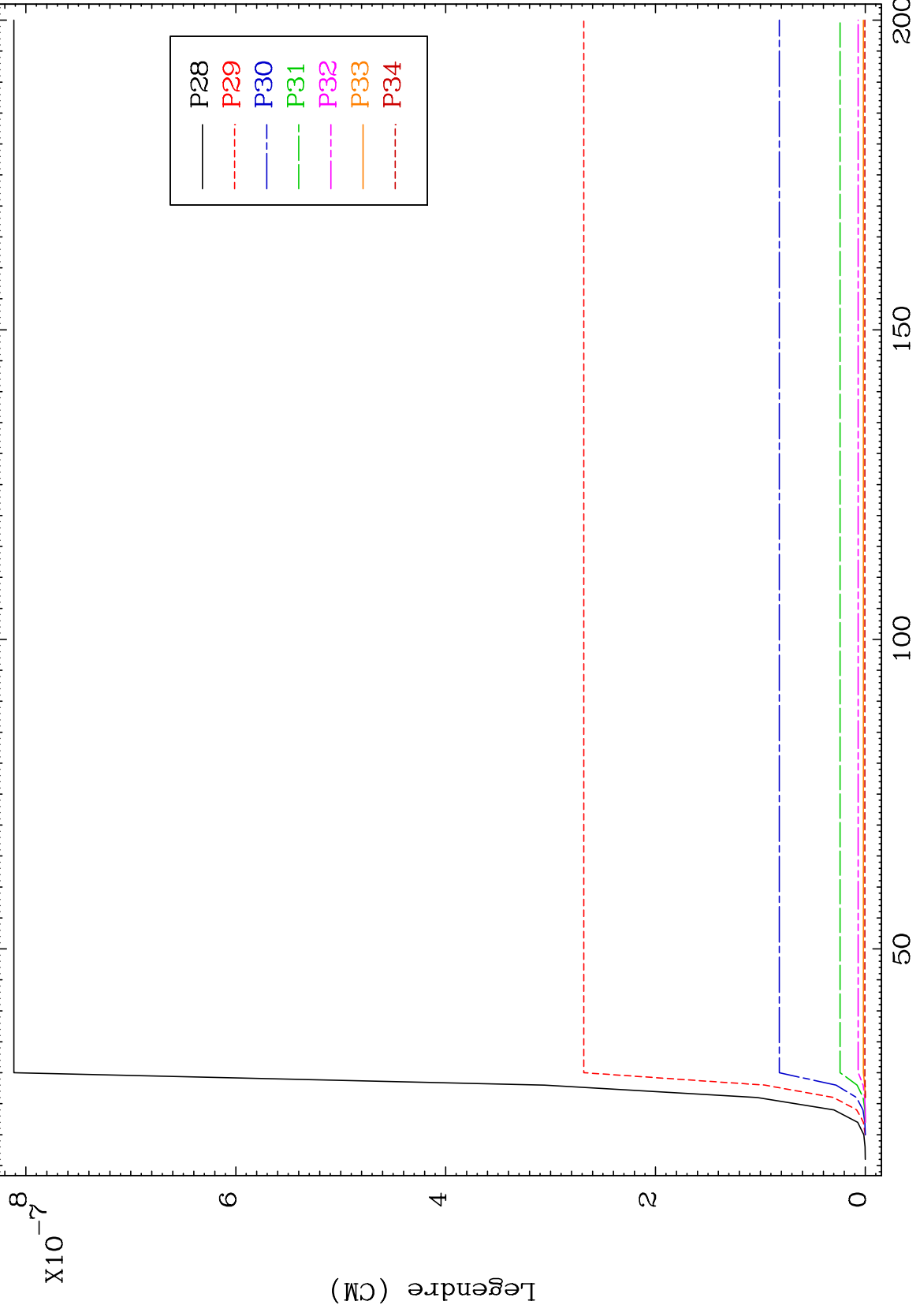


32

Incident Energy (MeV)

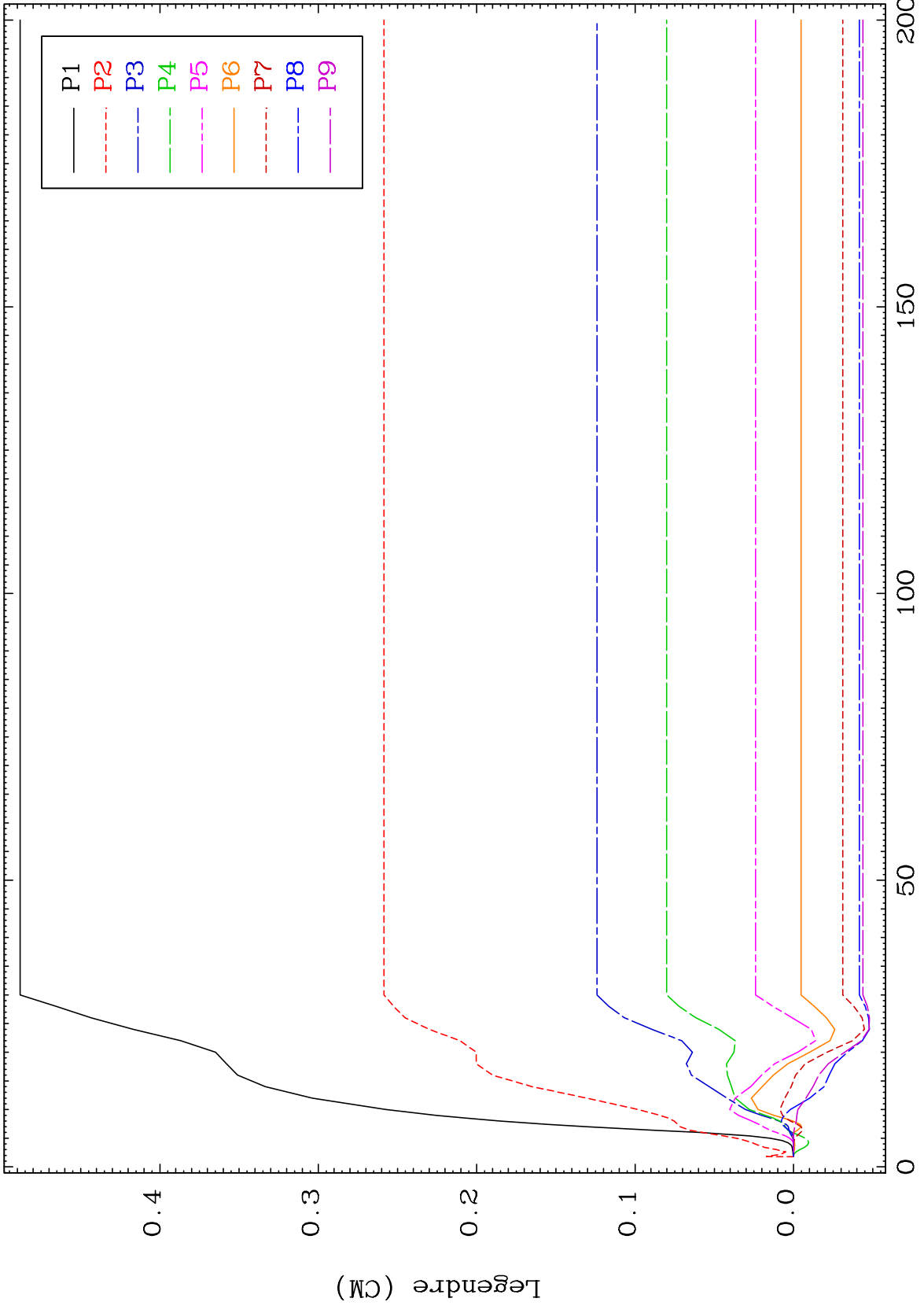
40-Zr-98

MAT 4049 MT= 54 (n,n') Level Legendre Coefficients 40-Zr-98



33 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-98

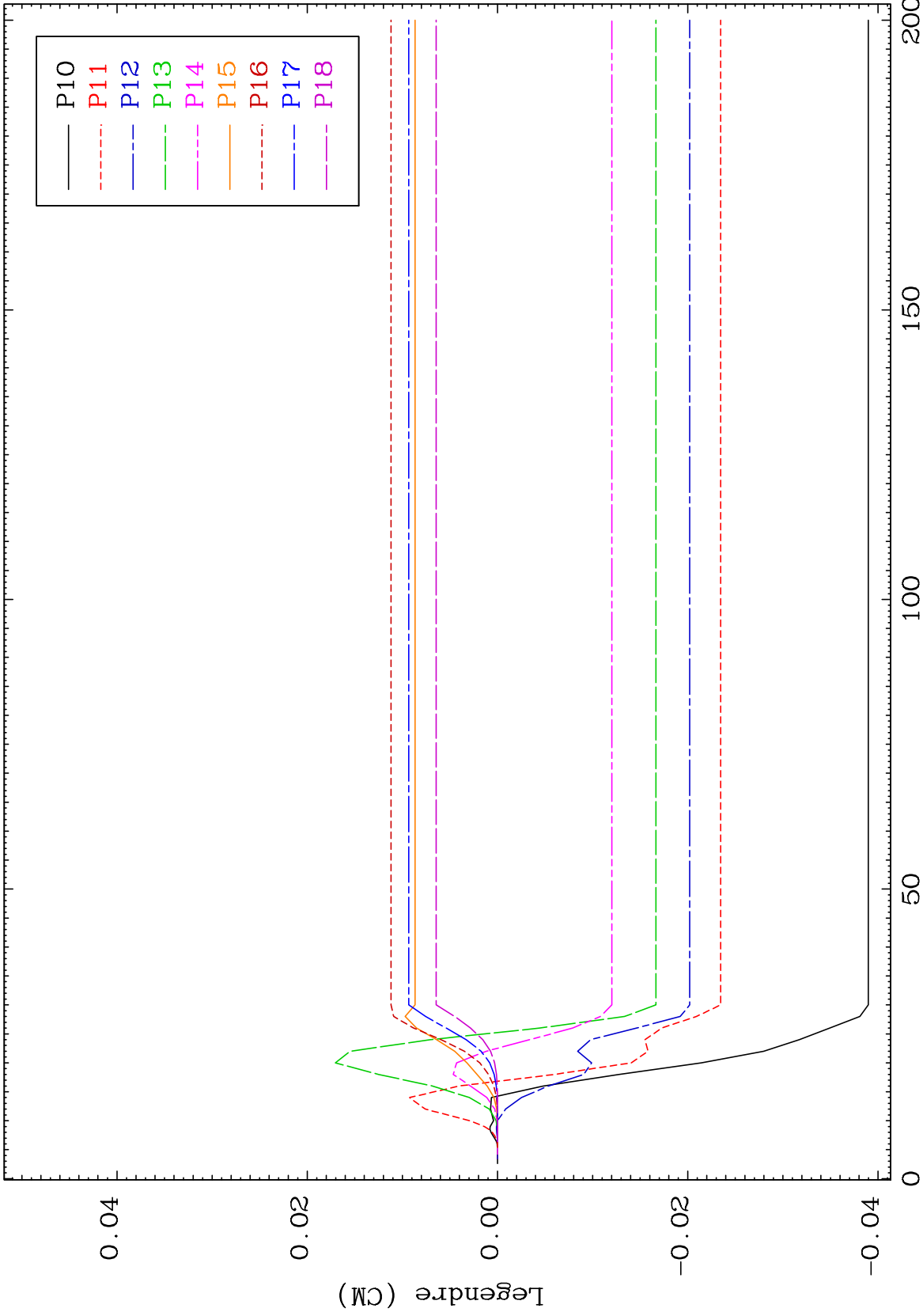


34 40-Zr-98

MAT 4049

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

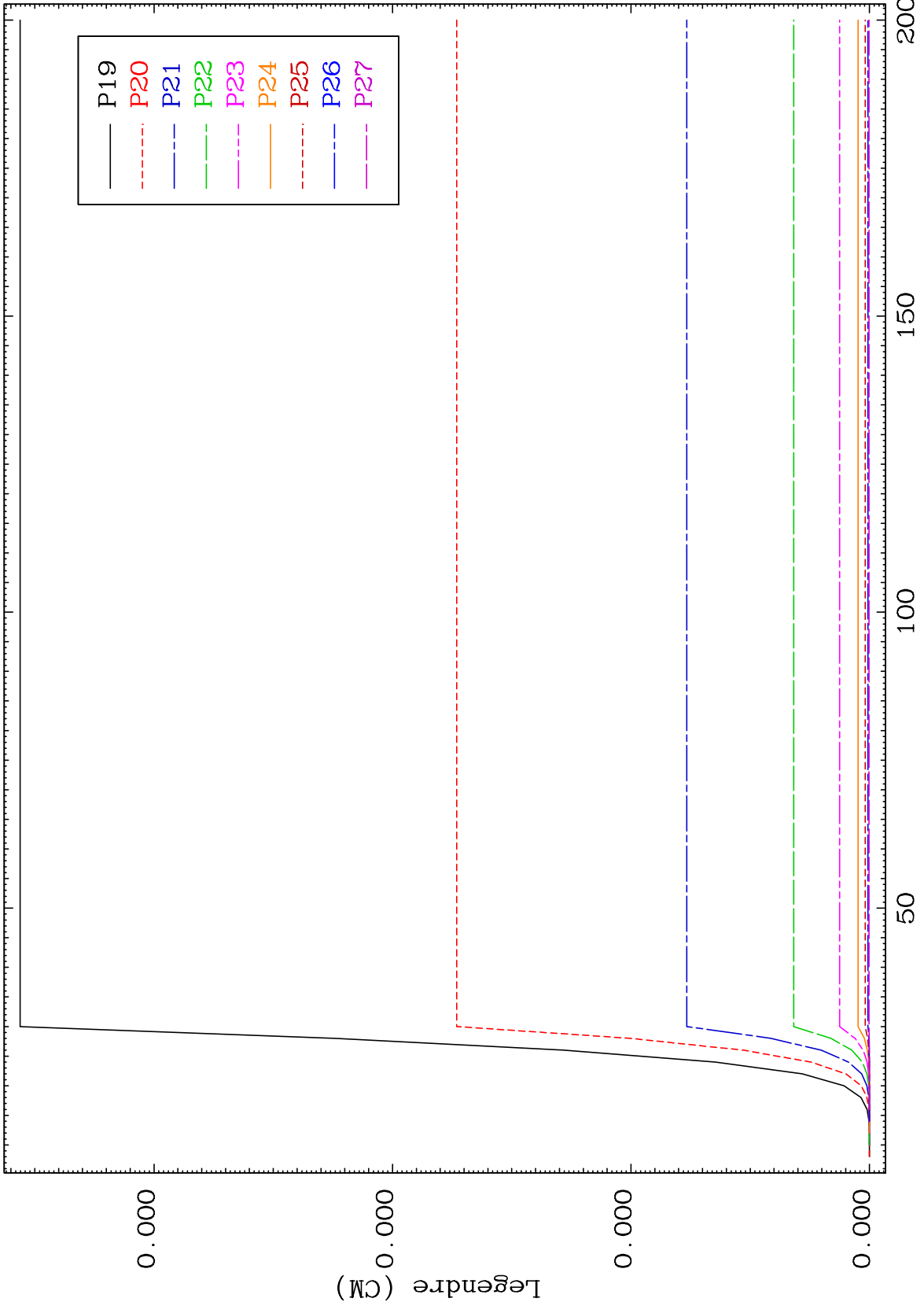
40-Zr-98



35

40-Zr-98

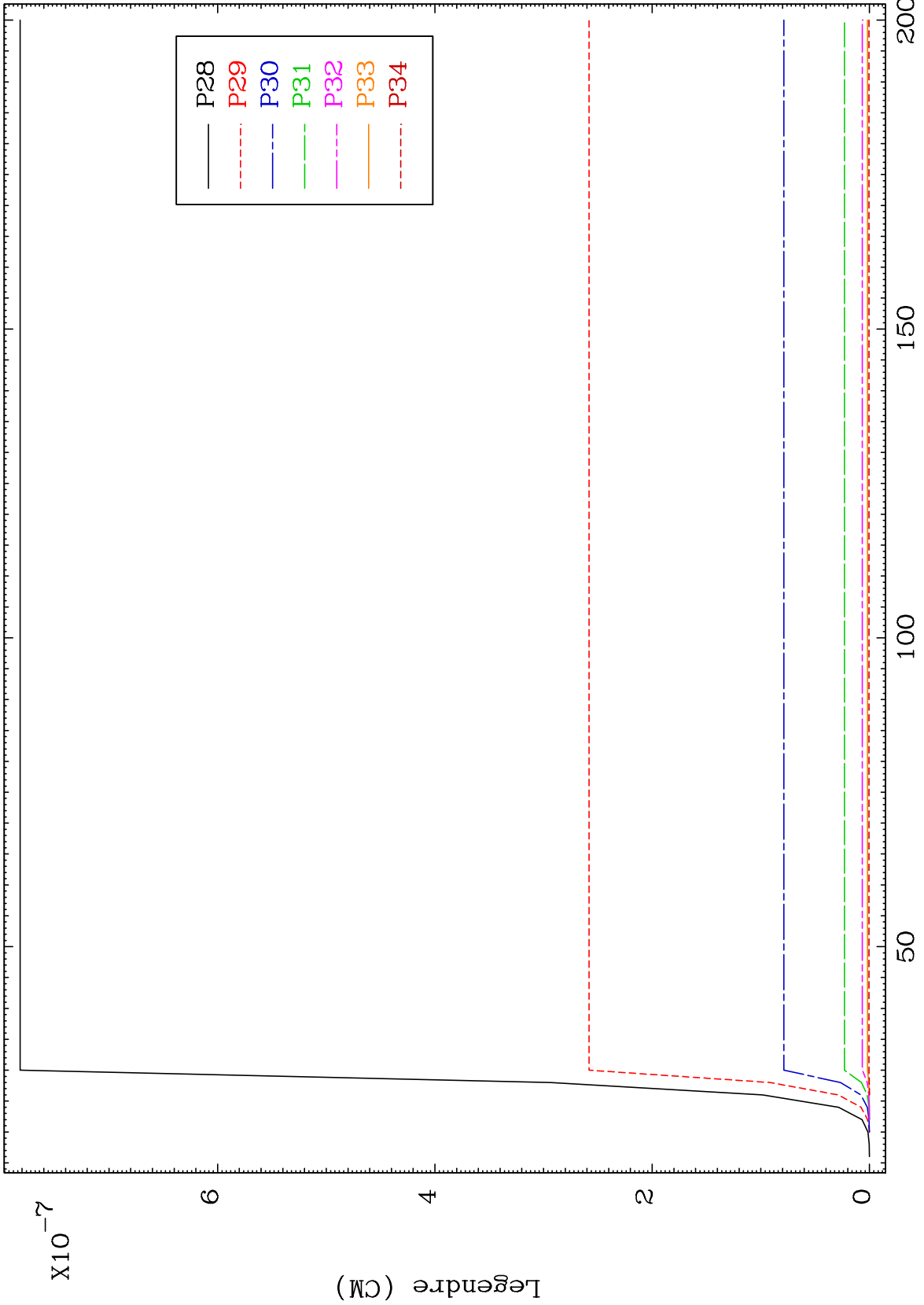
MAT 4049 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-98



MAT 4049

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

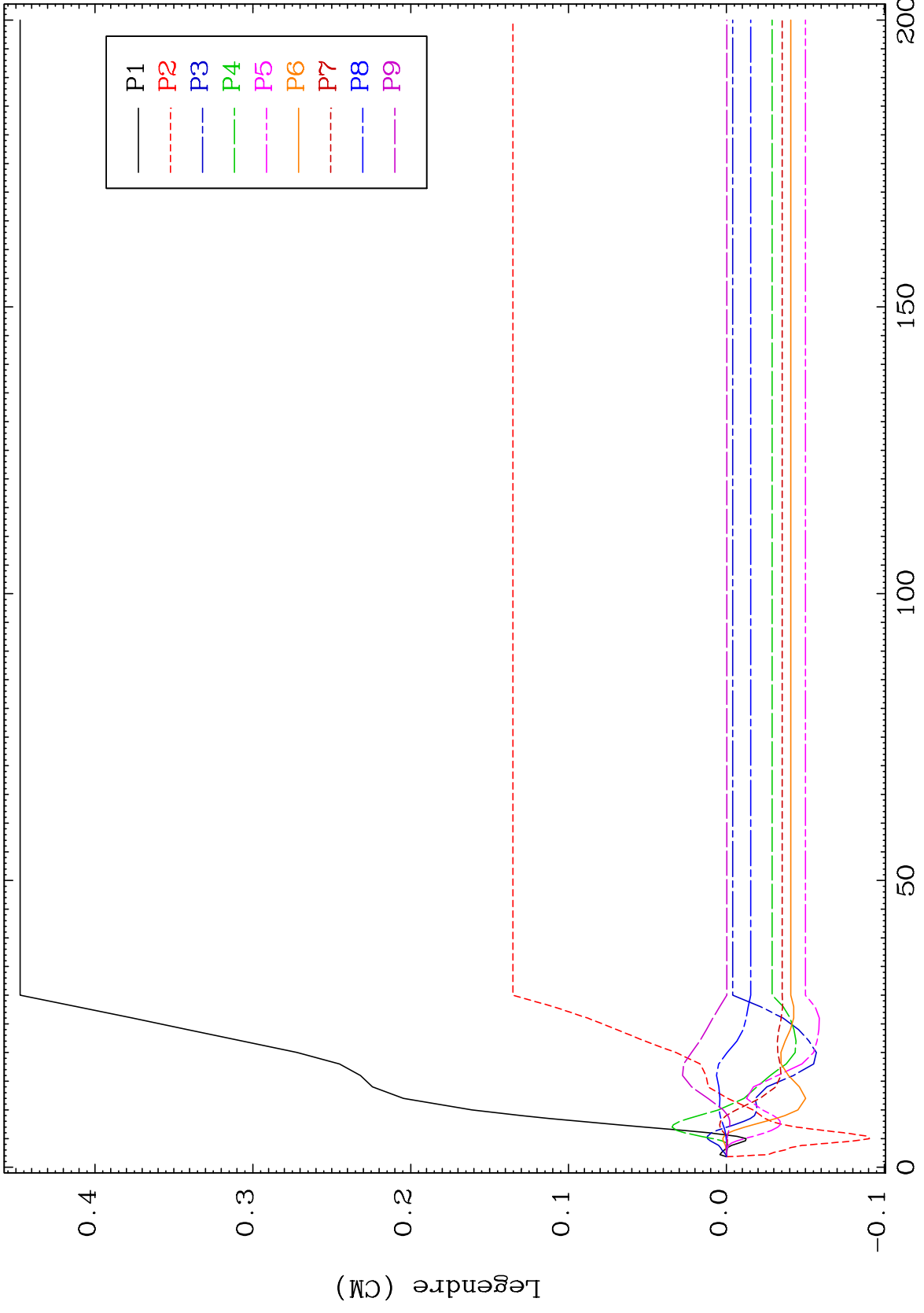
40-Zr-98



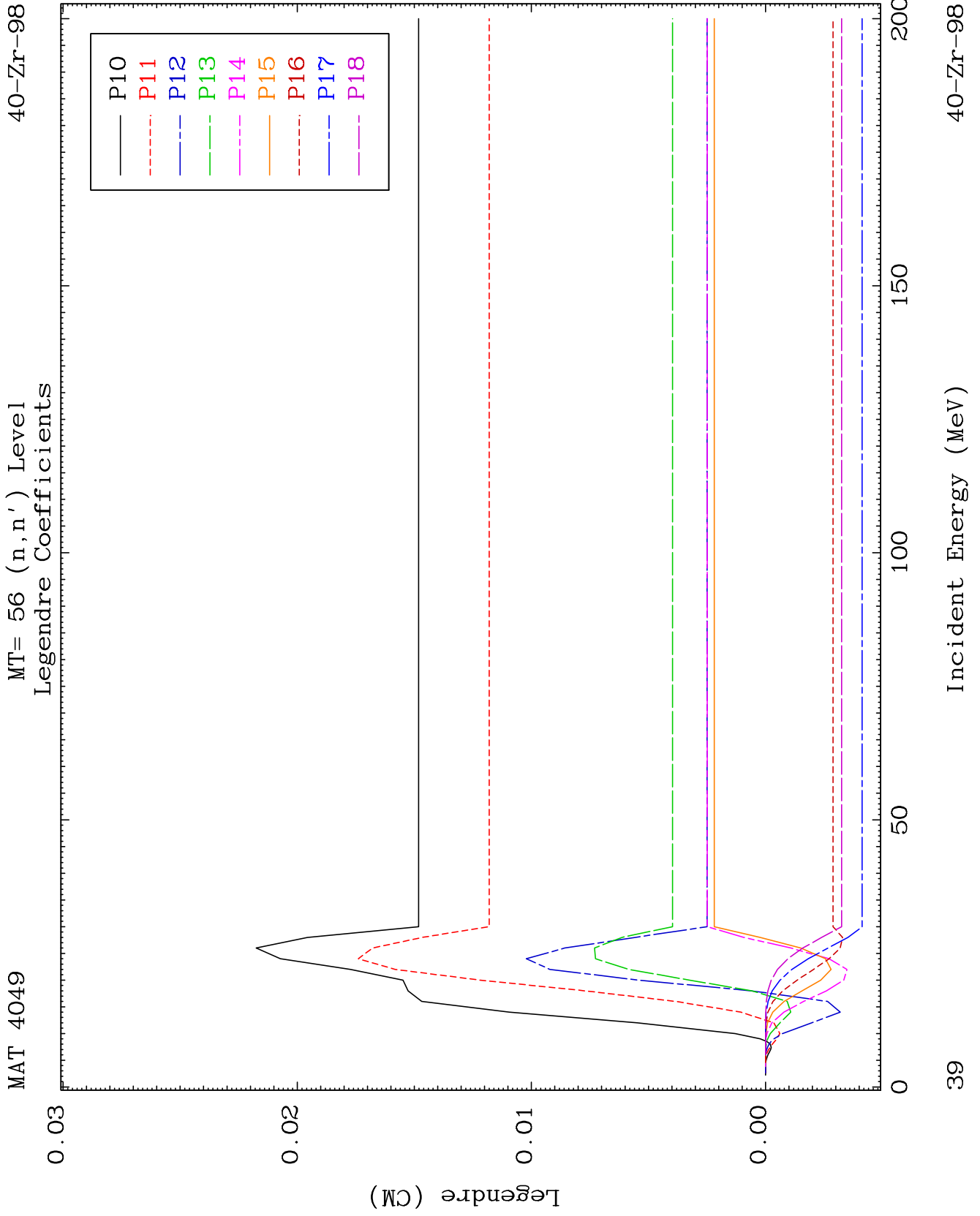
37

40-Zr-98

MAT 4049 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-98

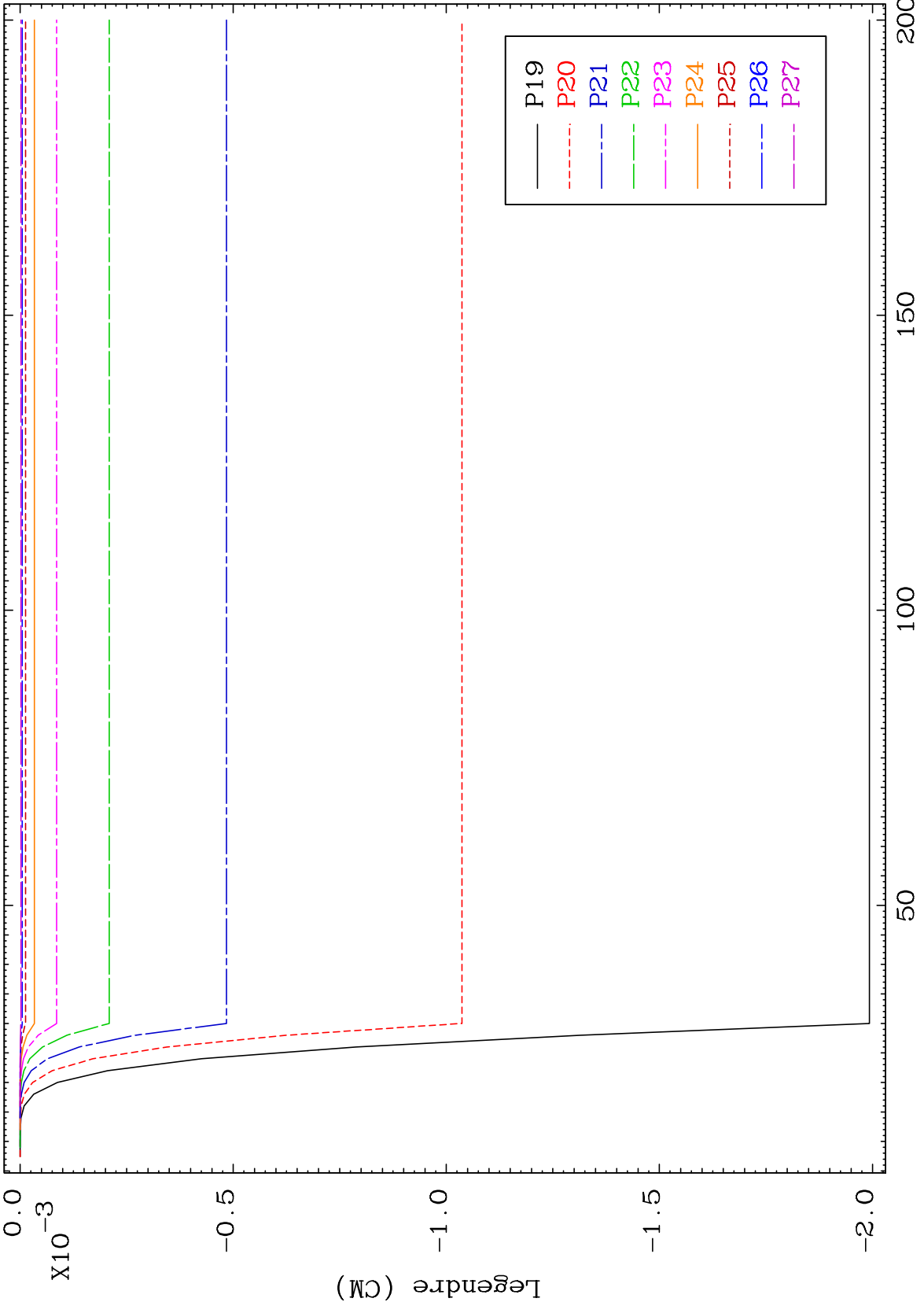


38 Incident Energy (MeV) 40-Zr-98



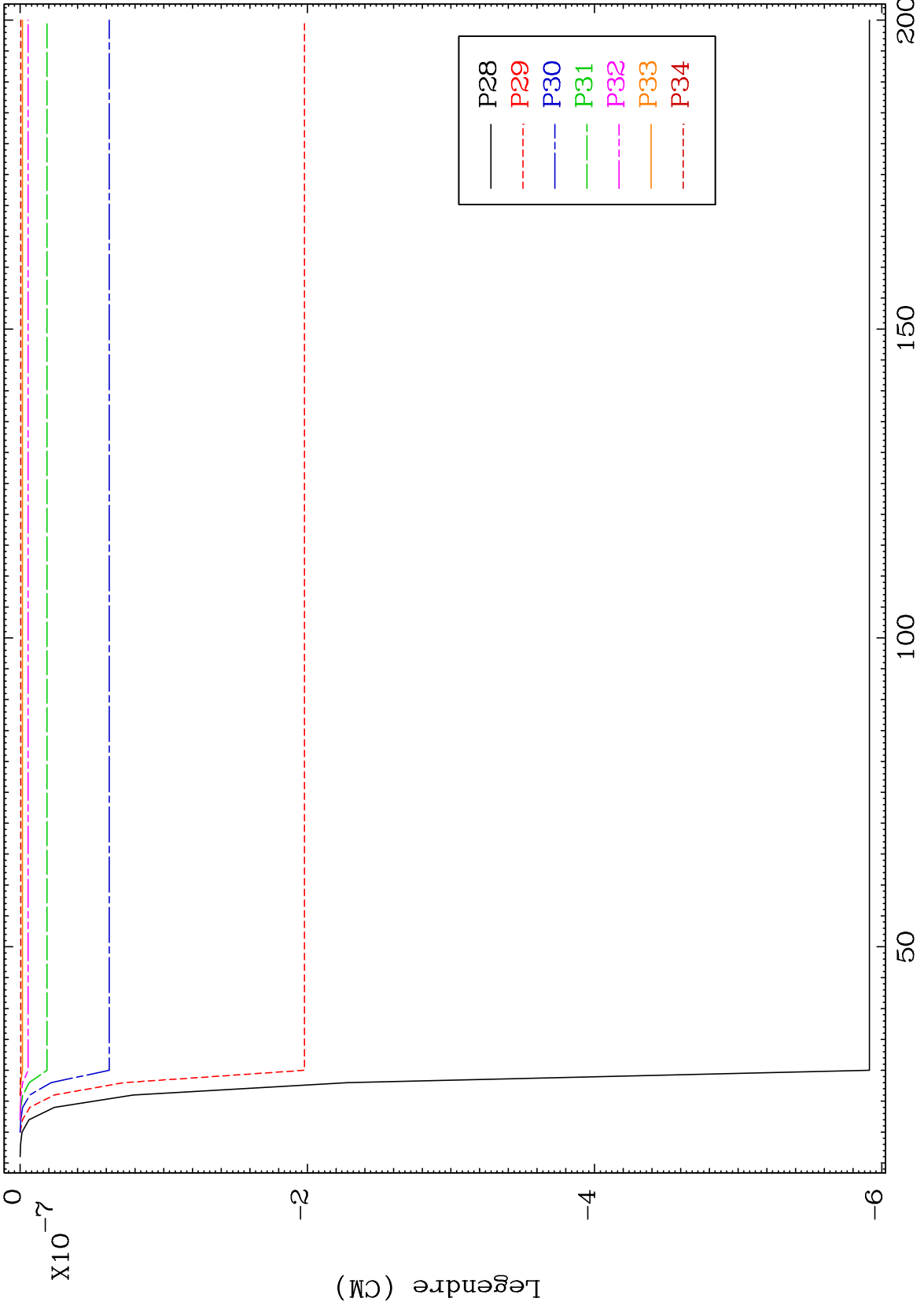


MAT 4049 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-98



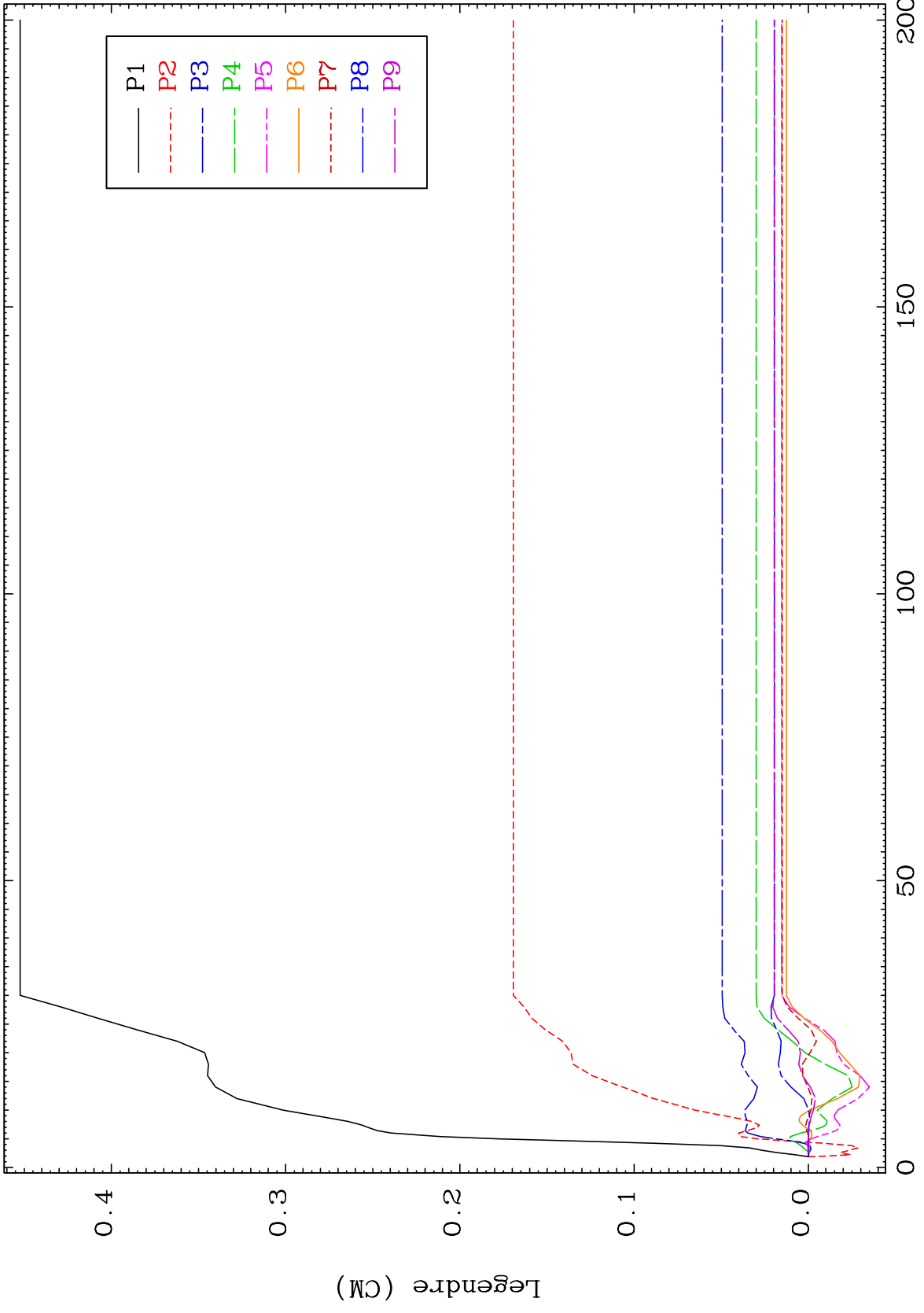
40-Zr-98 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-98



41 40-Zr-98

MAT 4049 MT= 57 (n,n') Level Legendre Coefficients 40-Zr-98

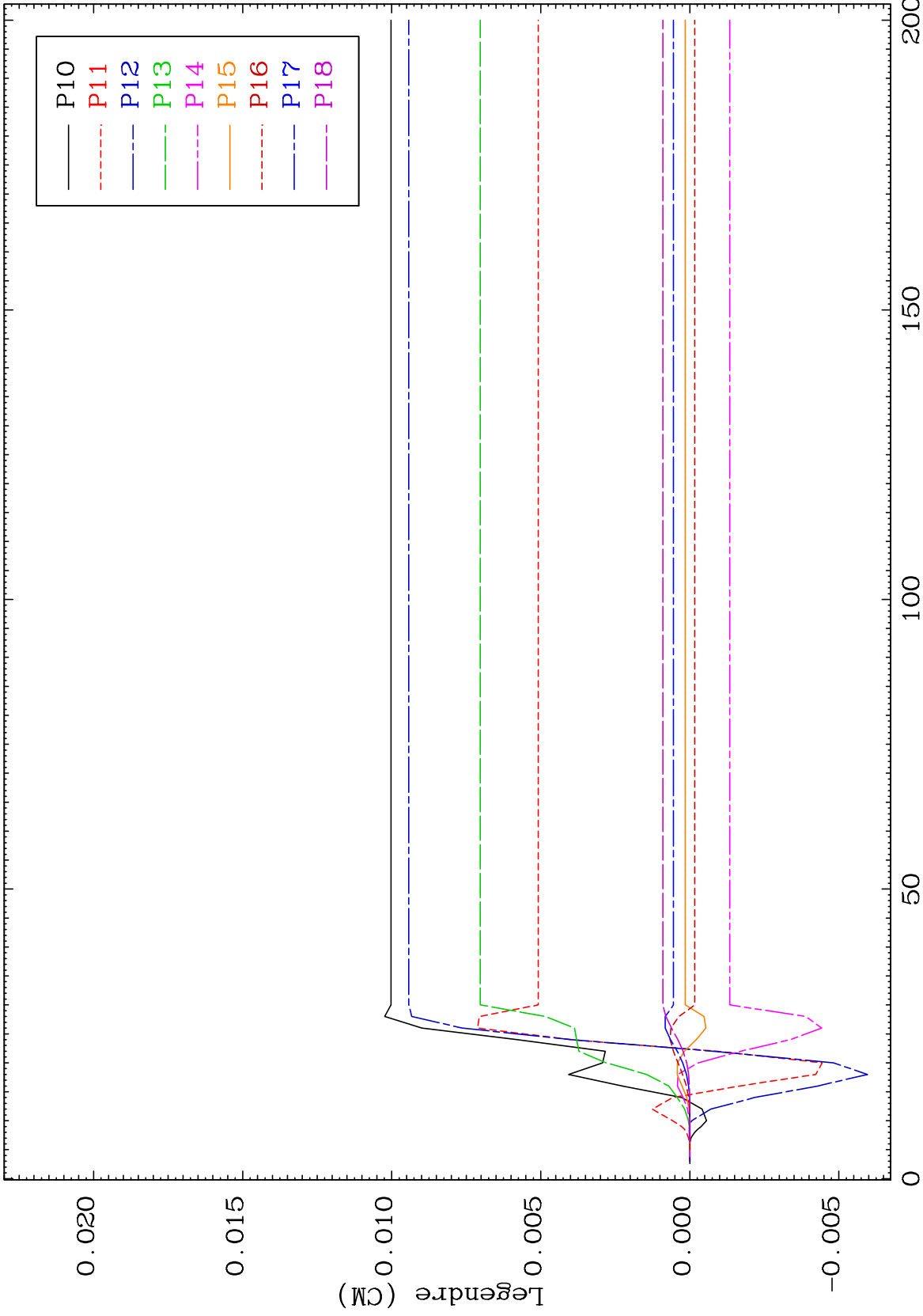


42 40-Zr-98

MAT 4049

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

40-Zr-98



43

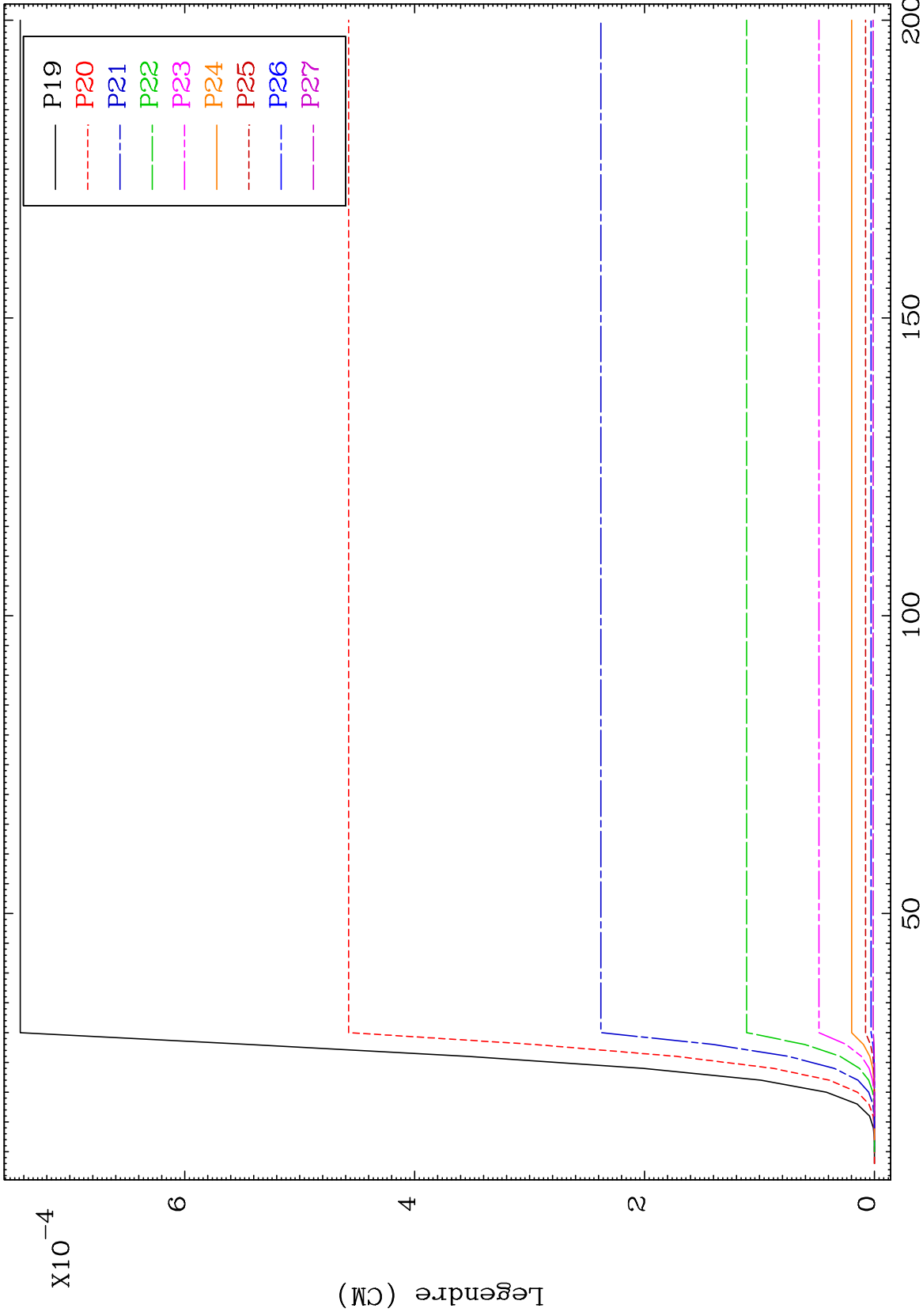
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98

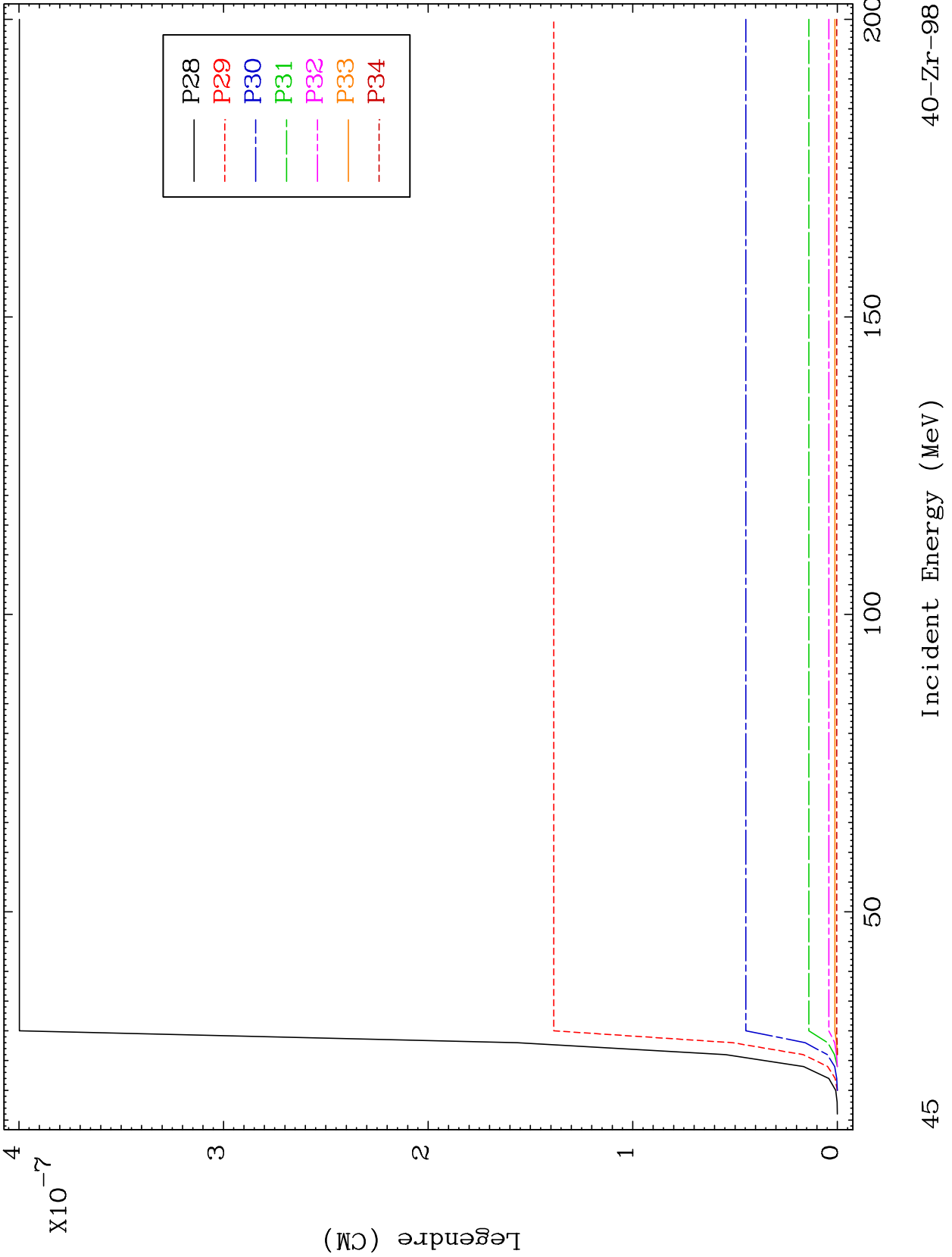


44

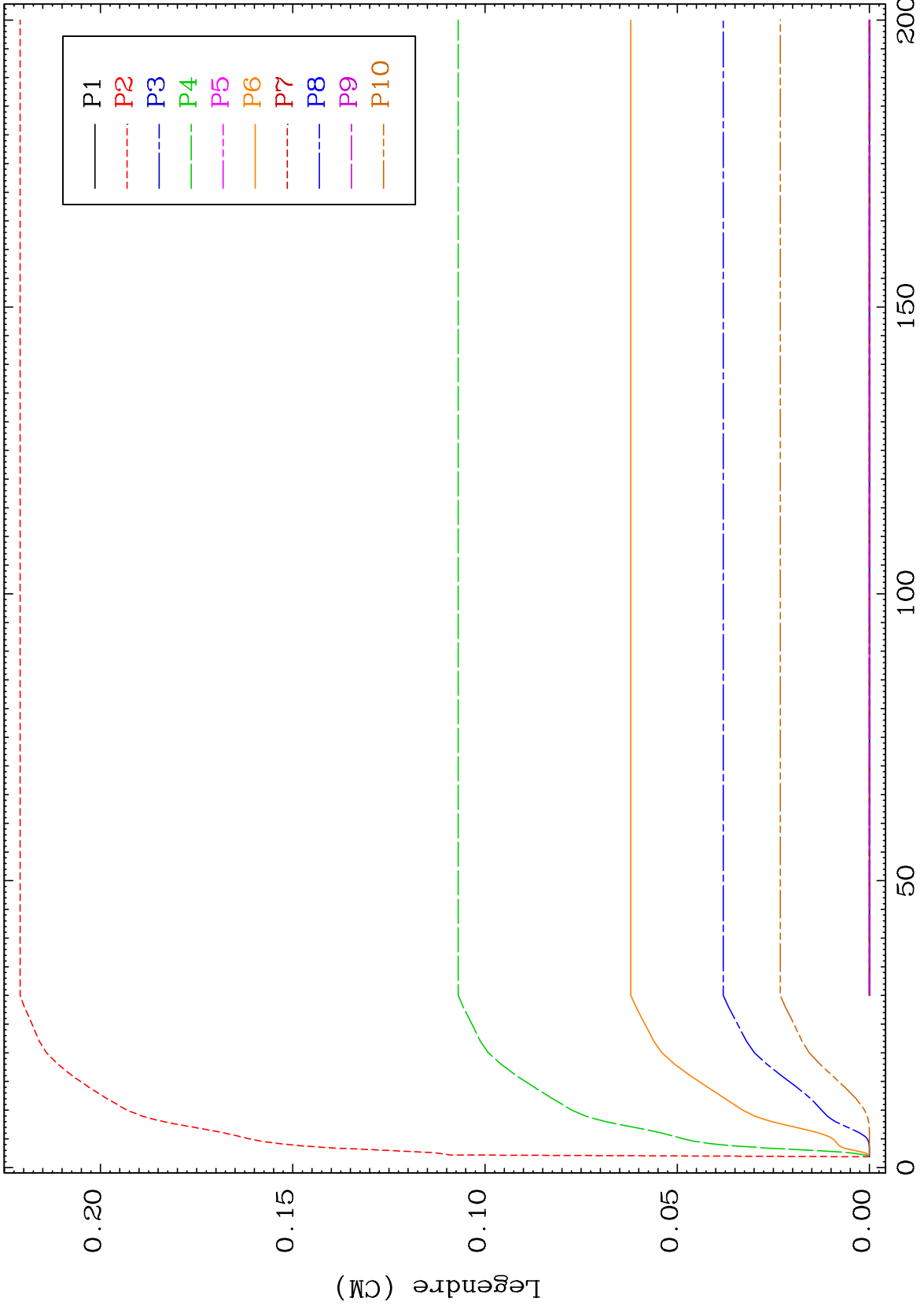
Incident Energy (MeV)

40-Zr-98

MAT 4049 MT= 57 (n,n') Level Legendre Coefficients 40-Zr-98

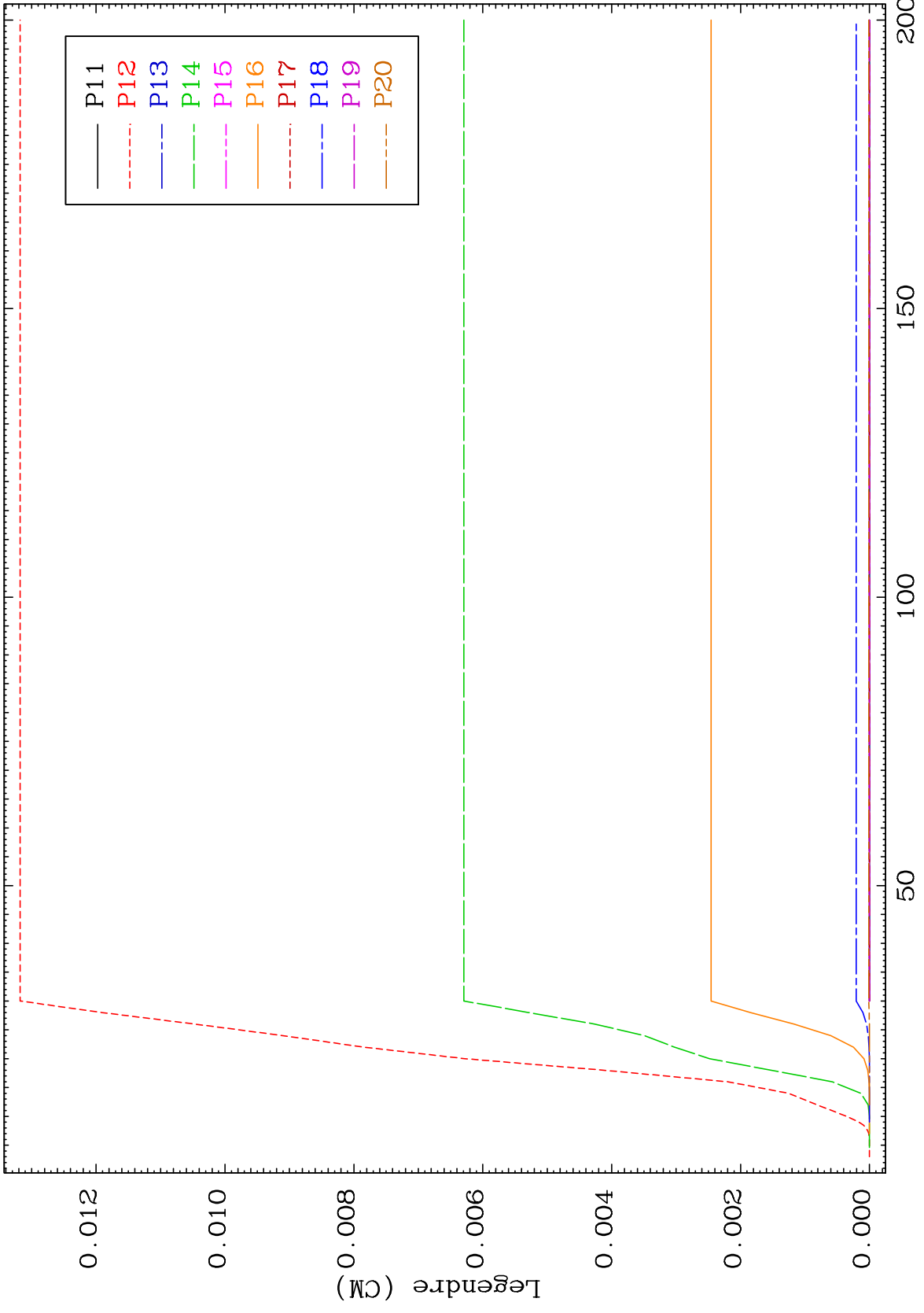


MAT 4049 MT= 58 (n,n') Level Legendre Coefficients 40-Zr-98



46 40-Zr-98

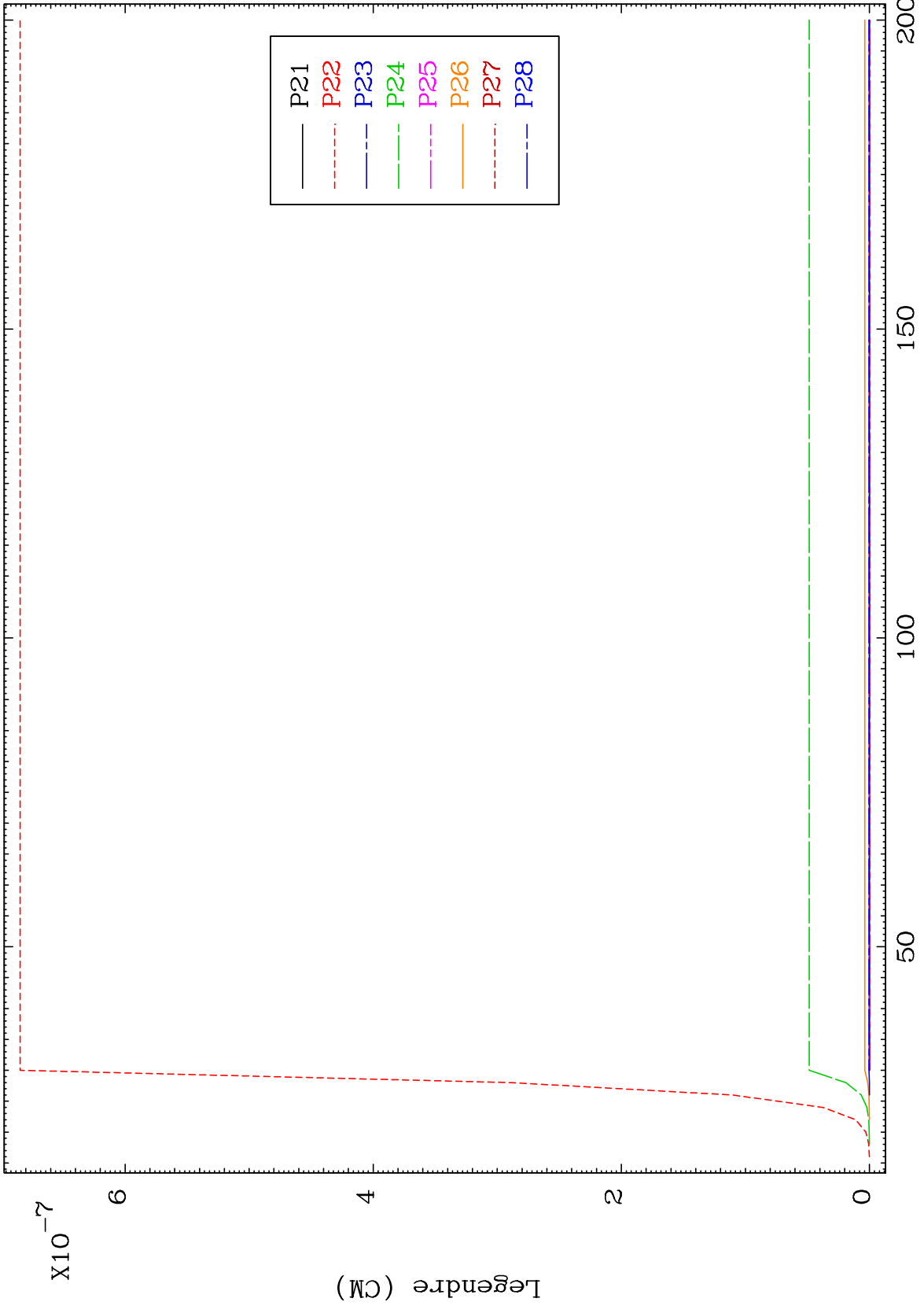
MAT 4049 MT= 58 (n,n') Level Legendre Coefficients 40-Zr-98



47 Incident Energy (MeV) 40-Zr-98

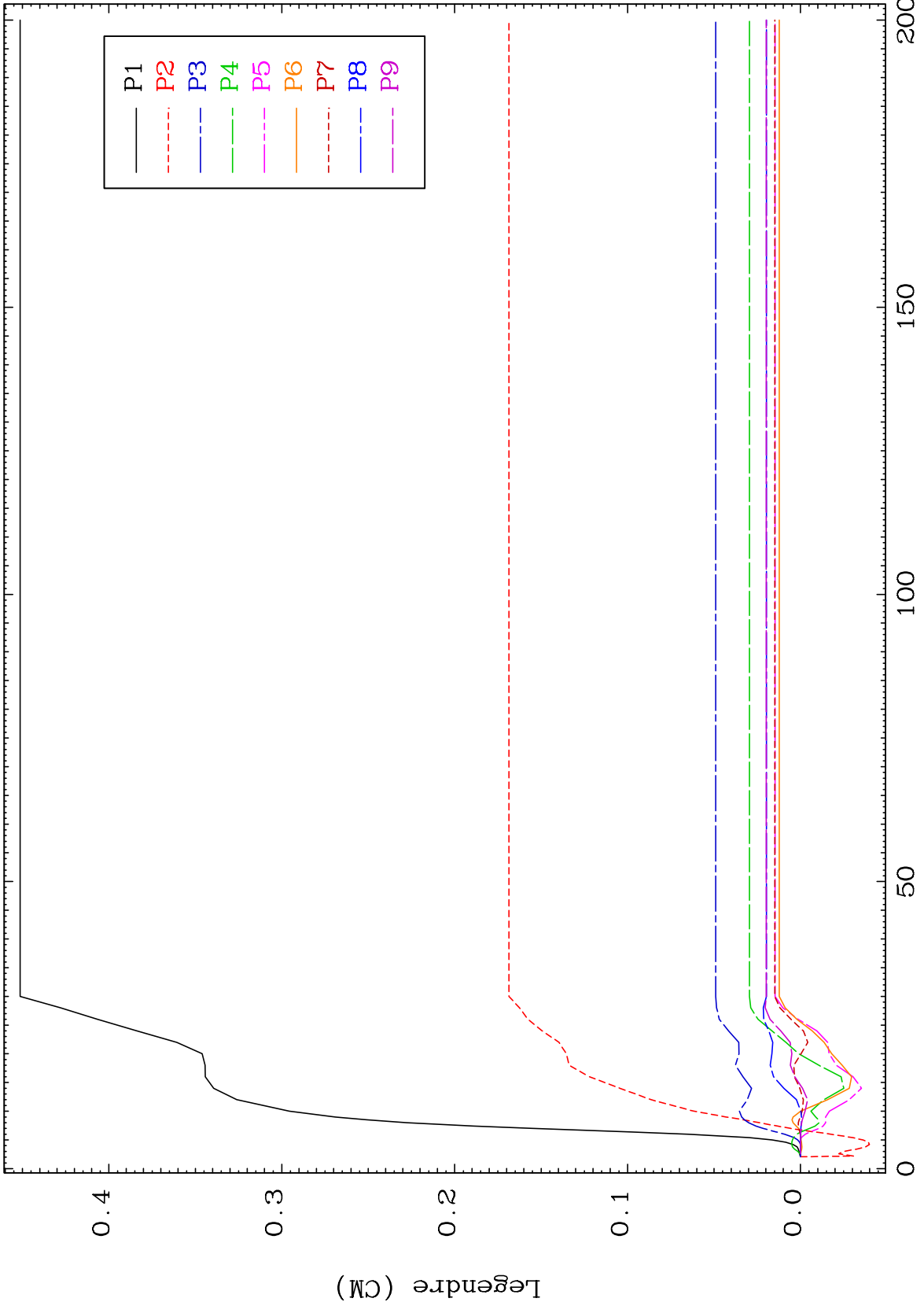


MAT 4049 MT= 58 (n,n') Level Legendre Coefficients 40-Zr-98



48 50 100 150 200 40-Zr-98

MAT 4049 MT= 59 (n,n') Level Legendre Coefficients 40-Zr-98

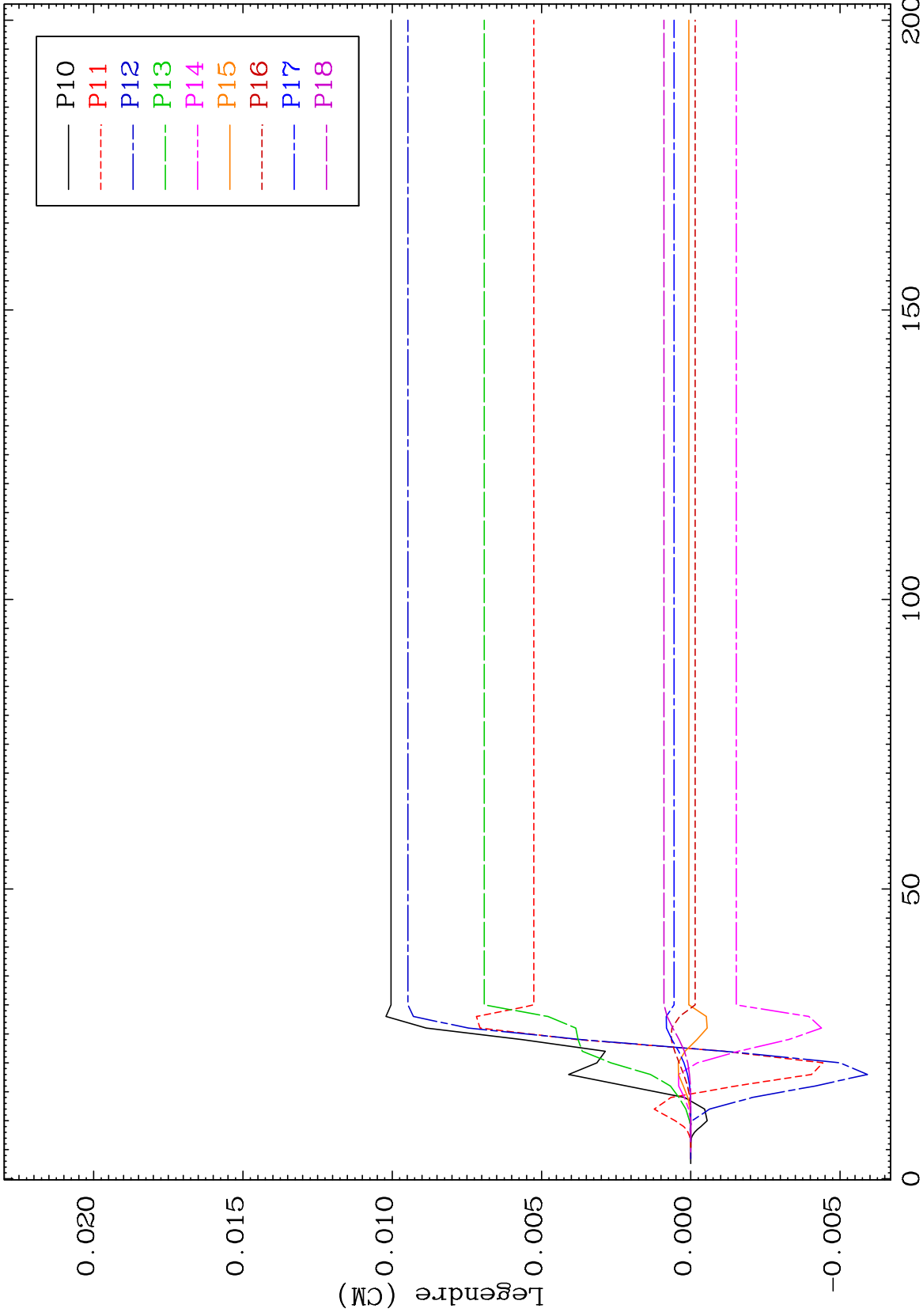


49 40-Zr-98

MAT 4049

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

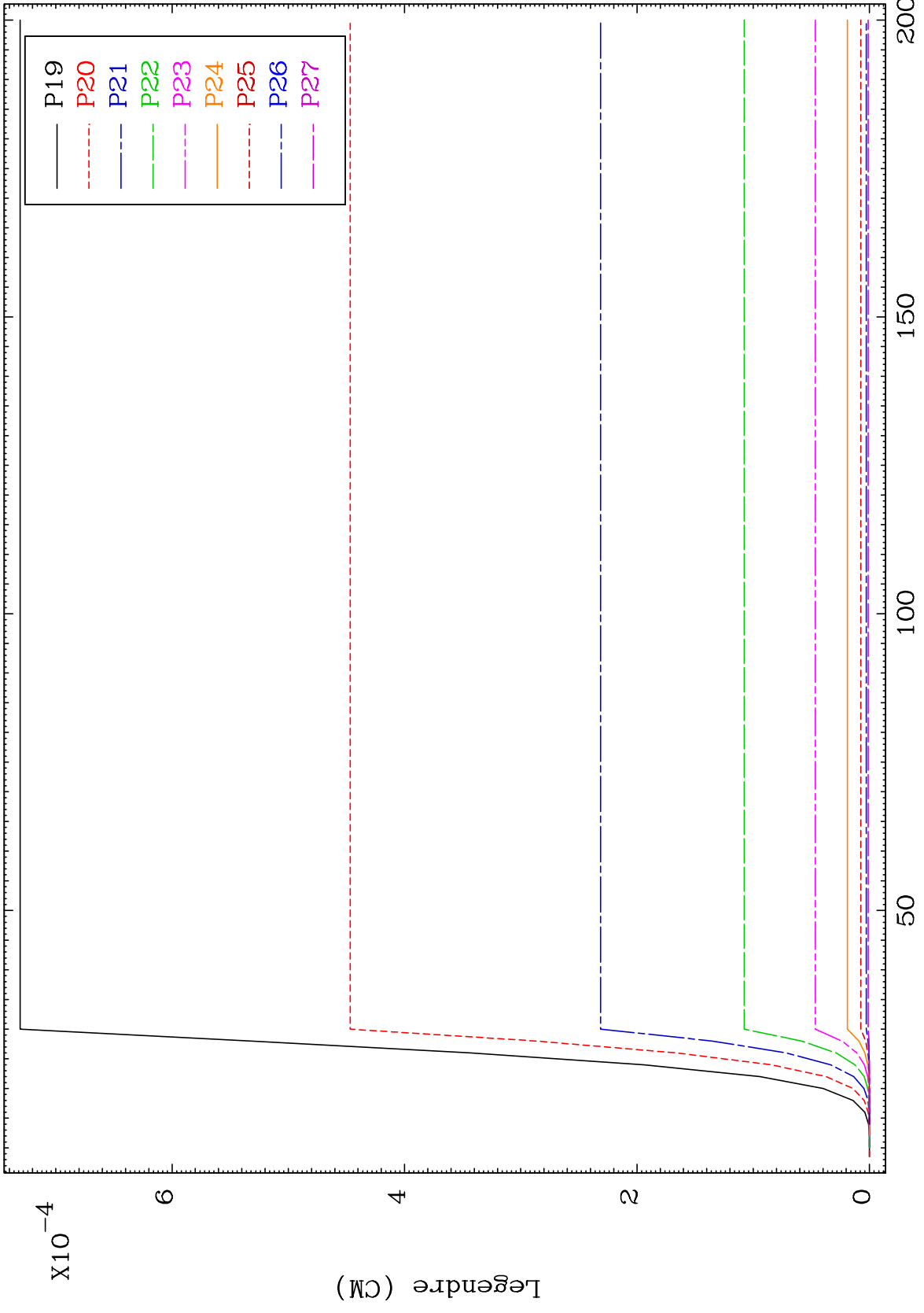
40-Zr-98



50

Incident Energy (MeV)

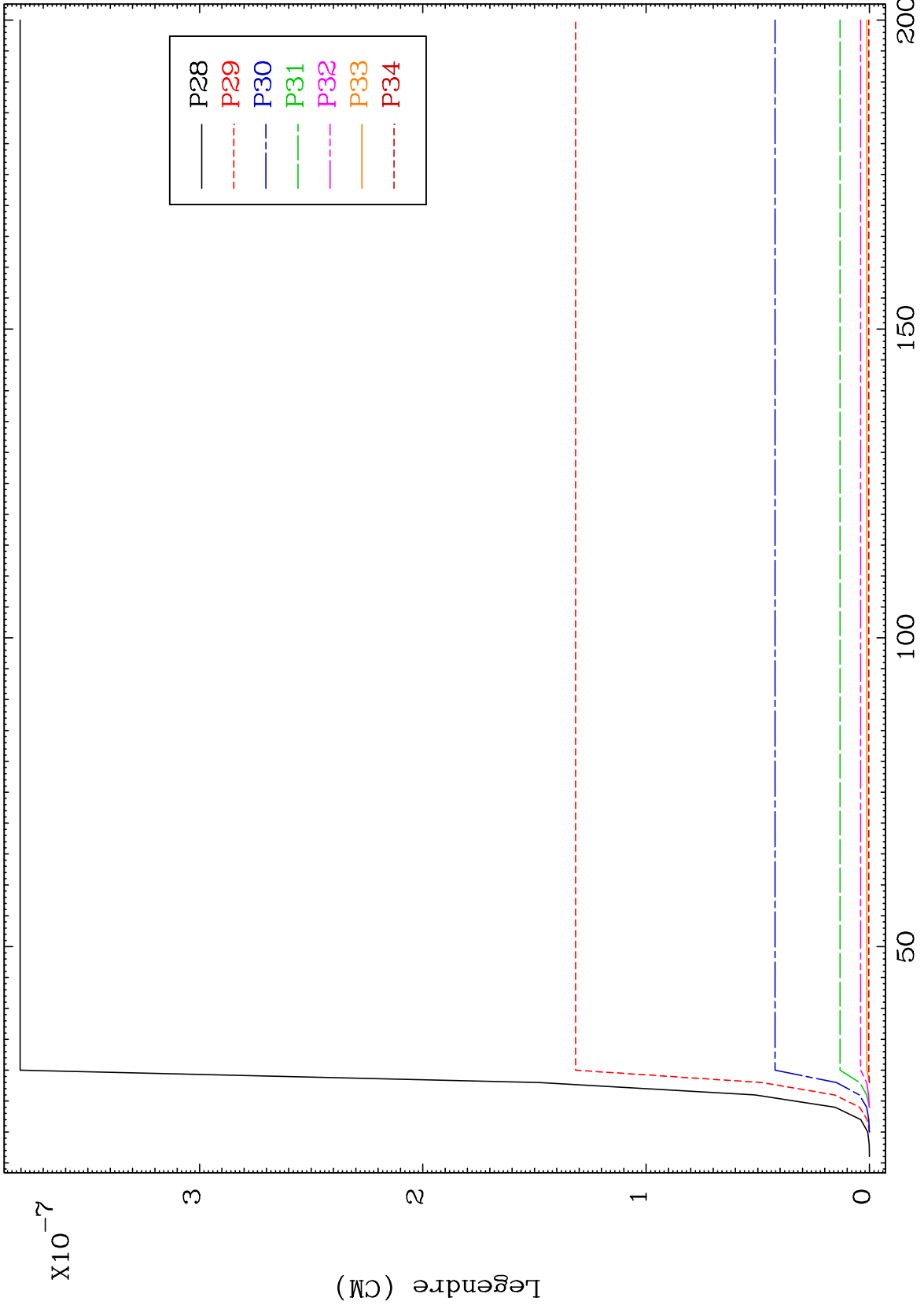
40-Zr-98



MAT 4049

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

40-Zr-98

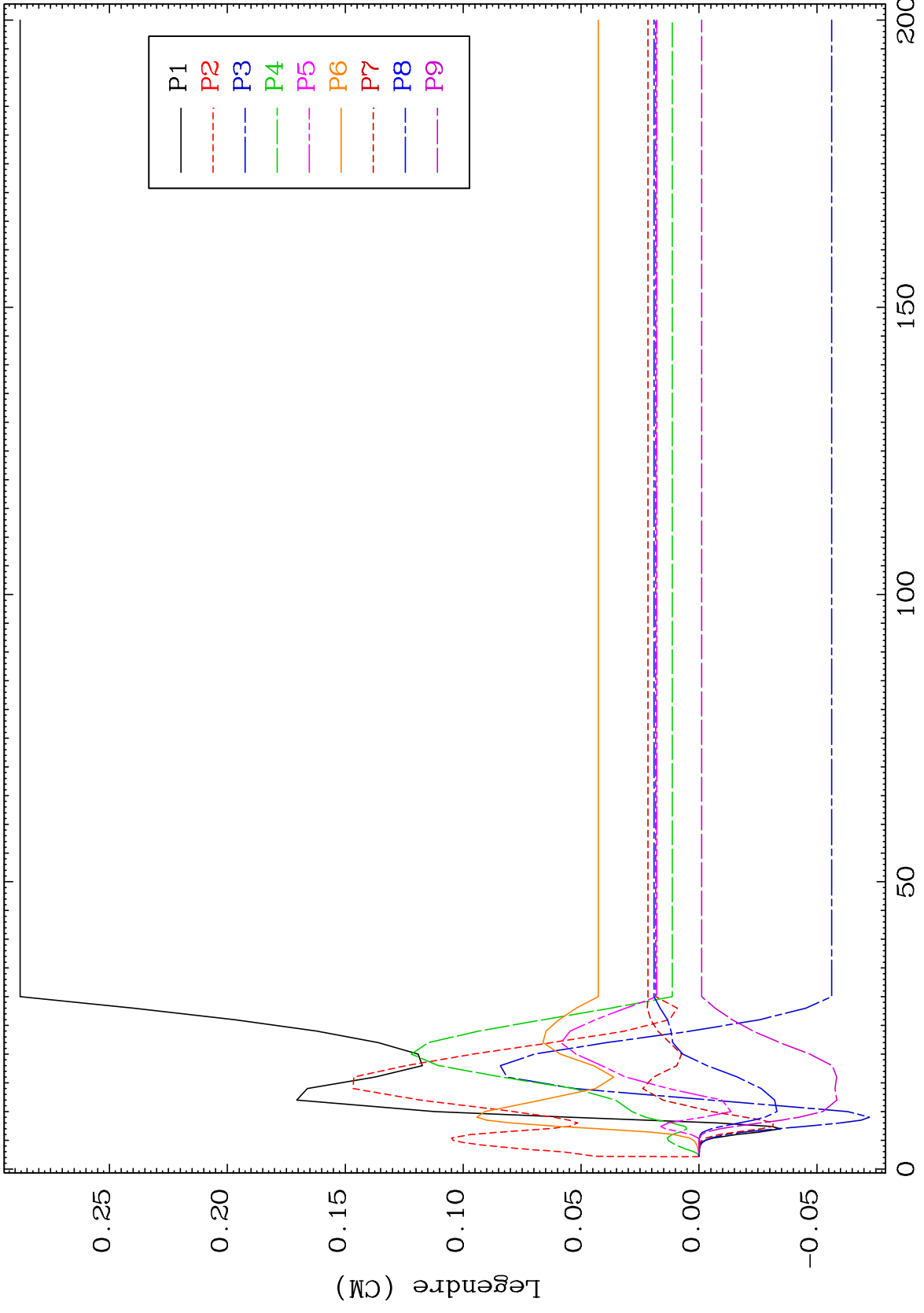


52

40-Zr-98

40-Zr-98

MAT 4049 MT= 60 (n,n') Level Legendre Coefficients 40-Zr-98

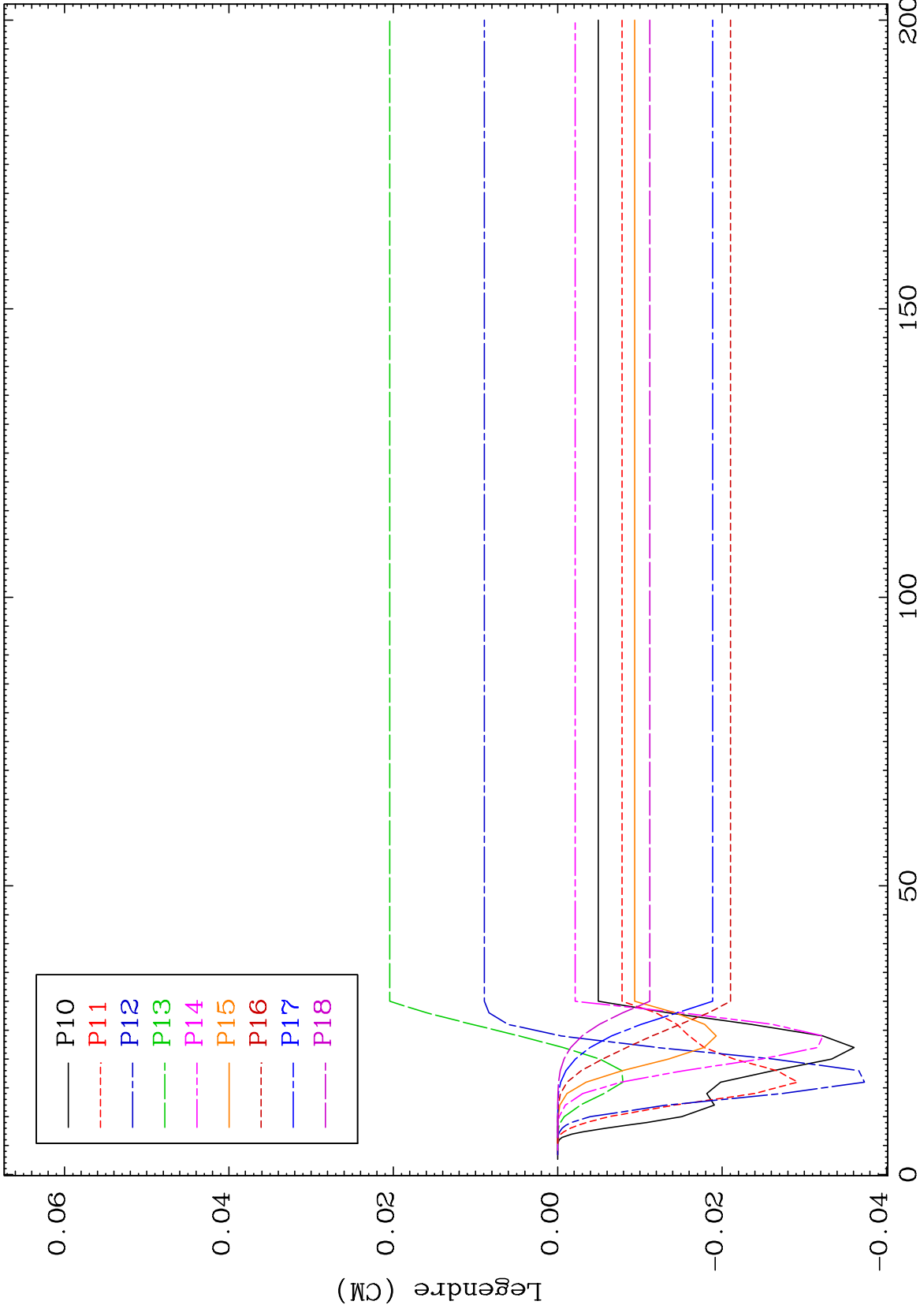


53 40-Zr-98

MAT 4049

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

40-Zr-98

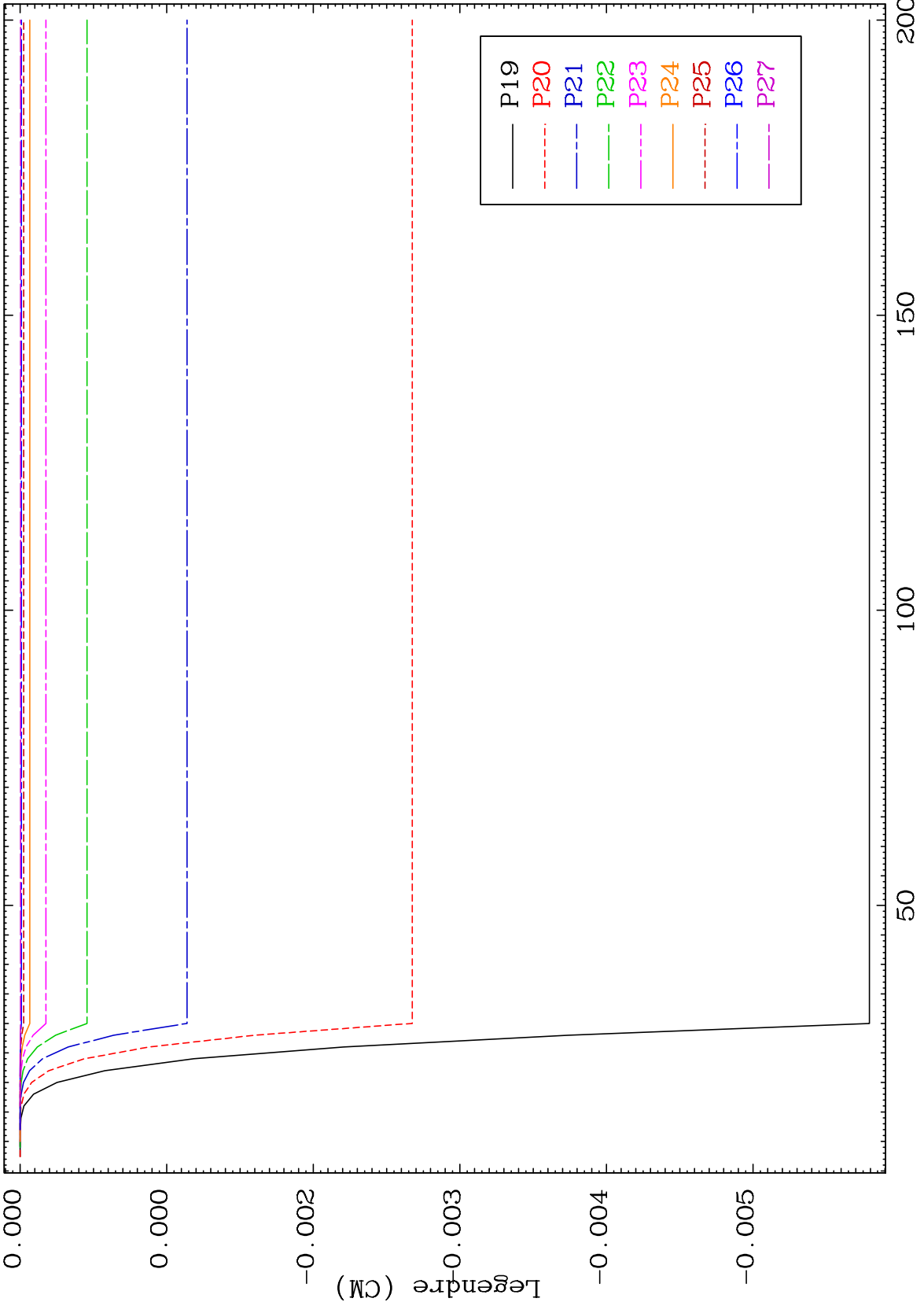


54

Incident Energy (MeV)

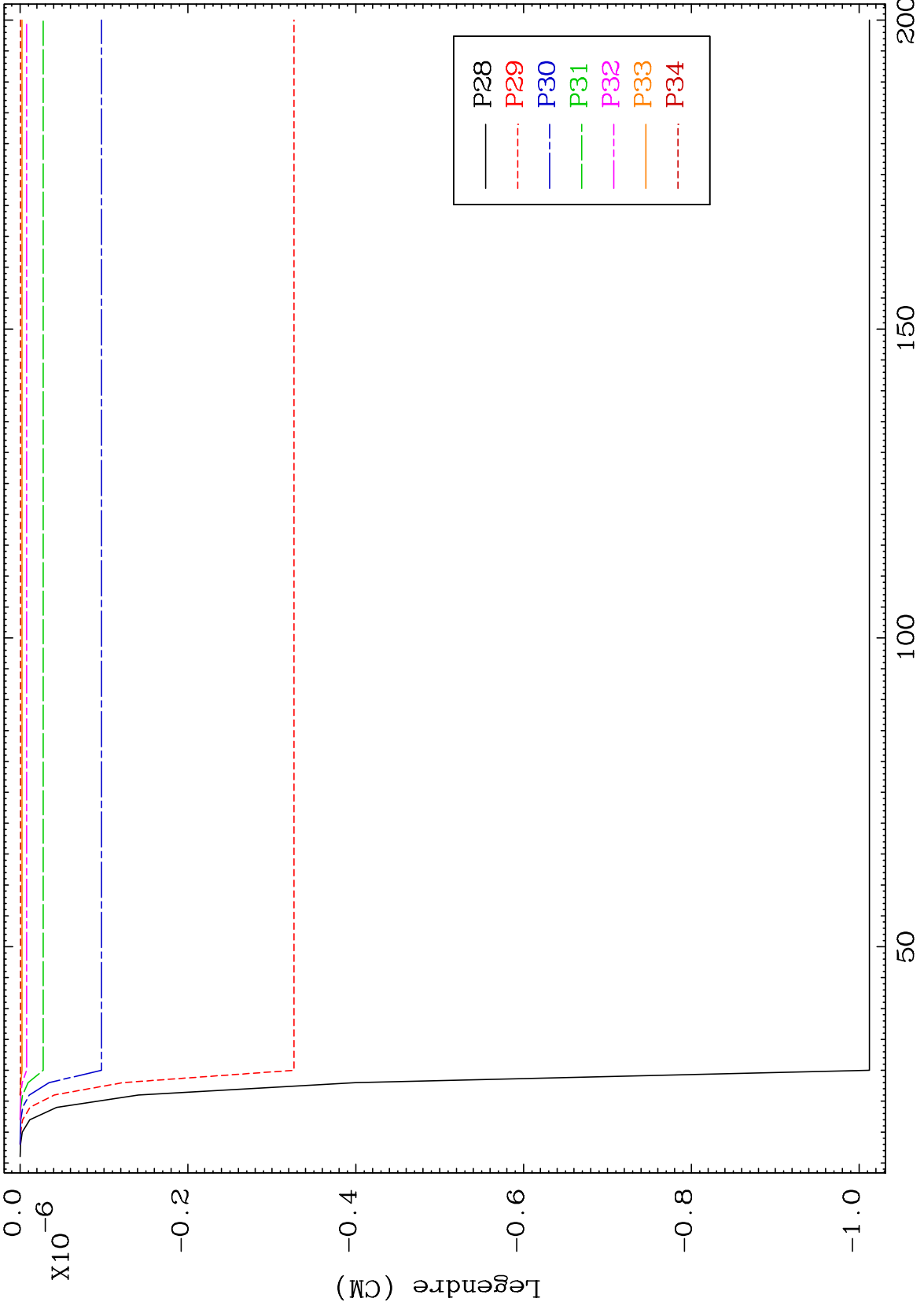
40-Zr-98

MAT 4049 MT= 60 (n,n') Level Legendre Coefficients 40-Zr-98



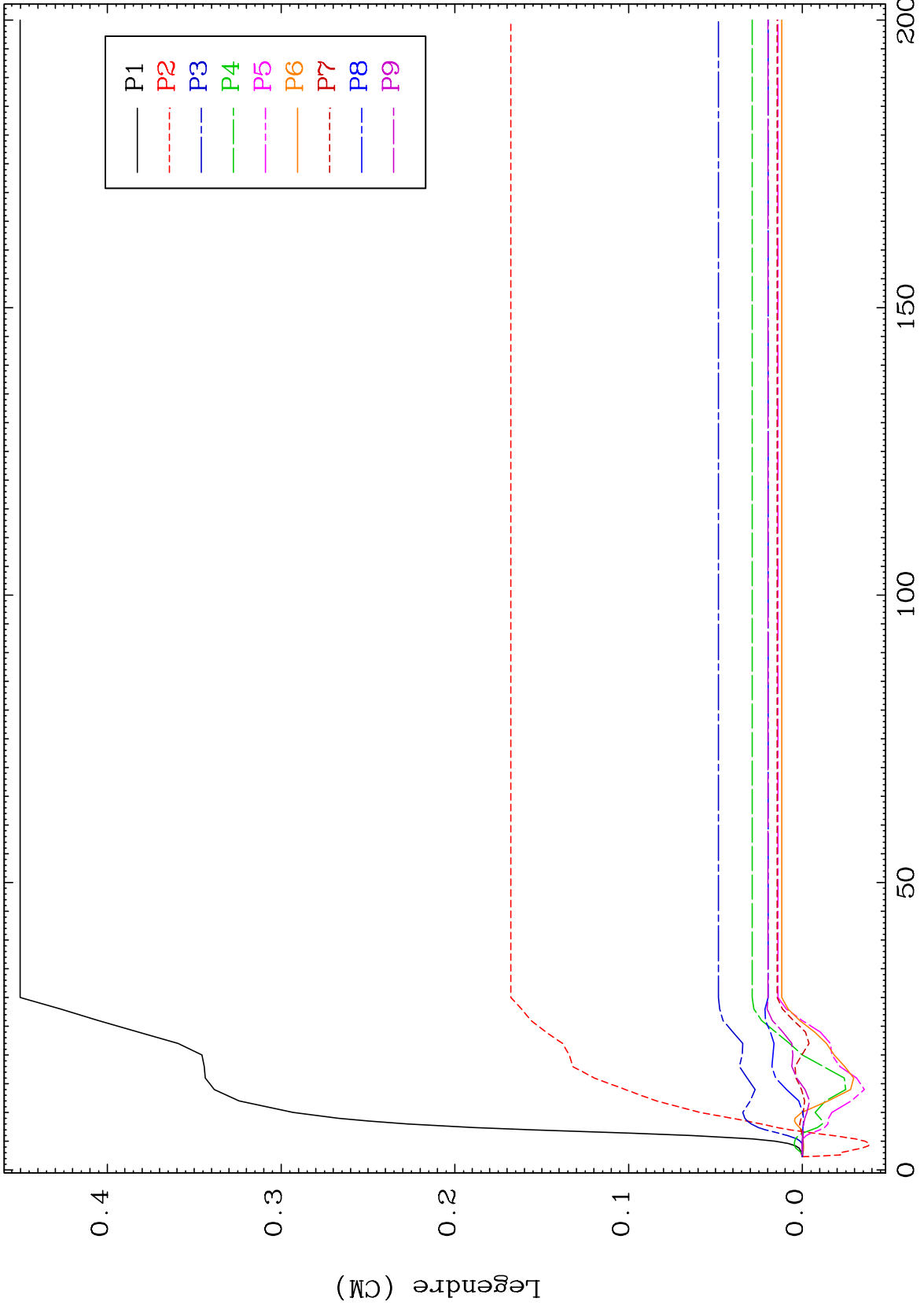


MAT 4049 MT= 60 (n,n') Level Legendre Coefficients 40-Zr-98



56 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 61 (n,n') Level Legendre Coefficients 40-Zr-98

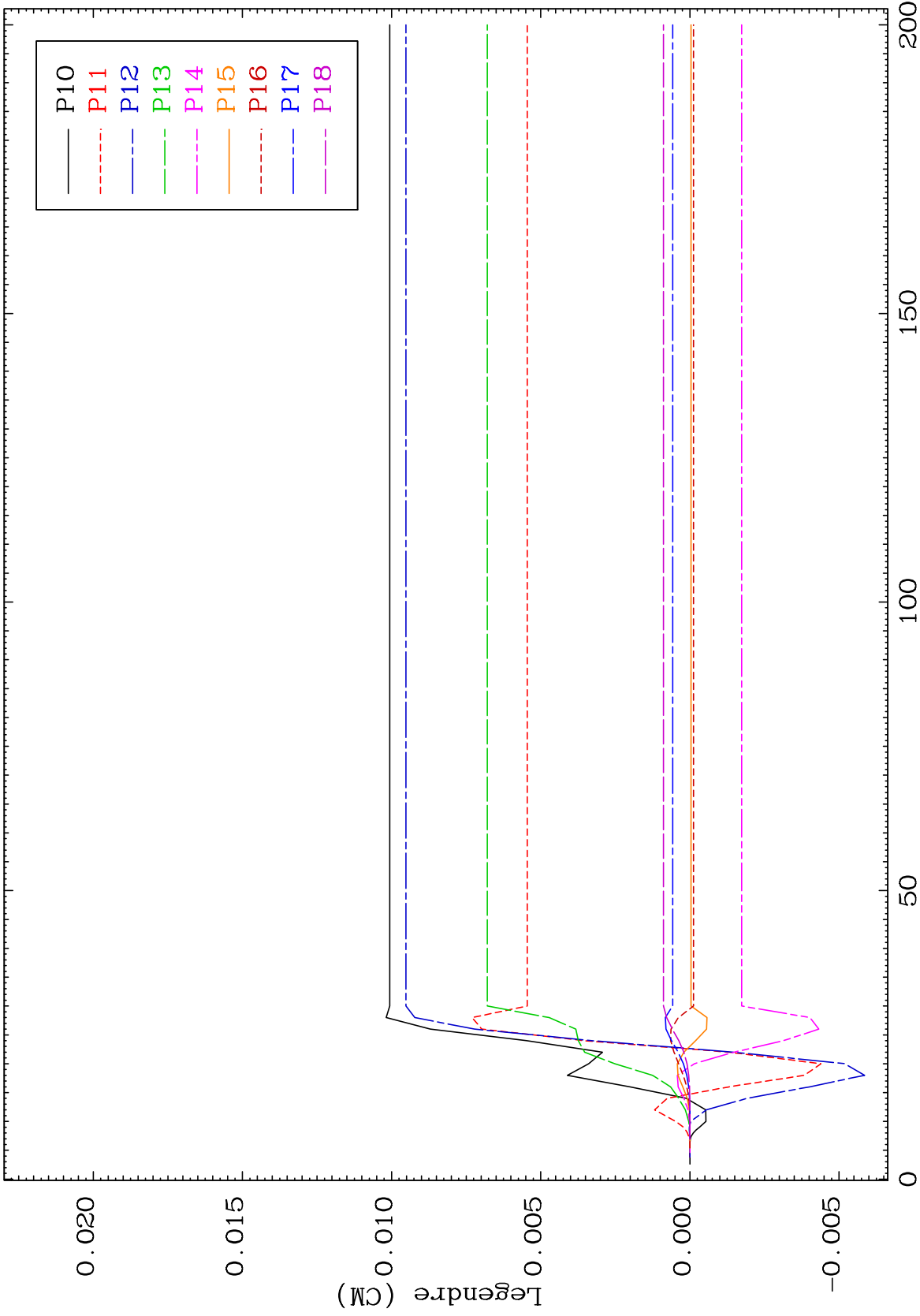


57 Incident Energy (MeV) 40-Zr-98

MAT 4049

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

40-Zr-98



58

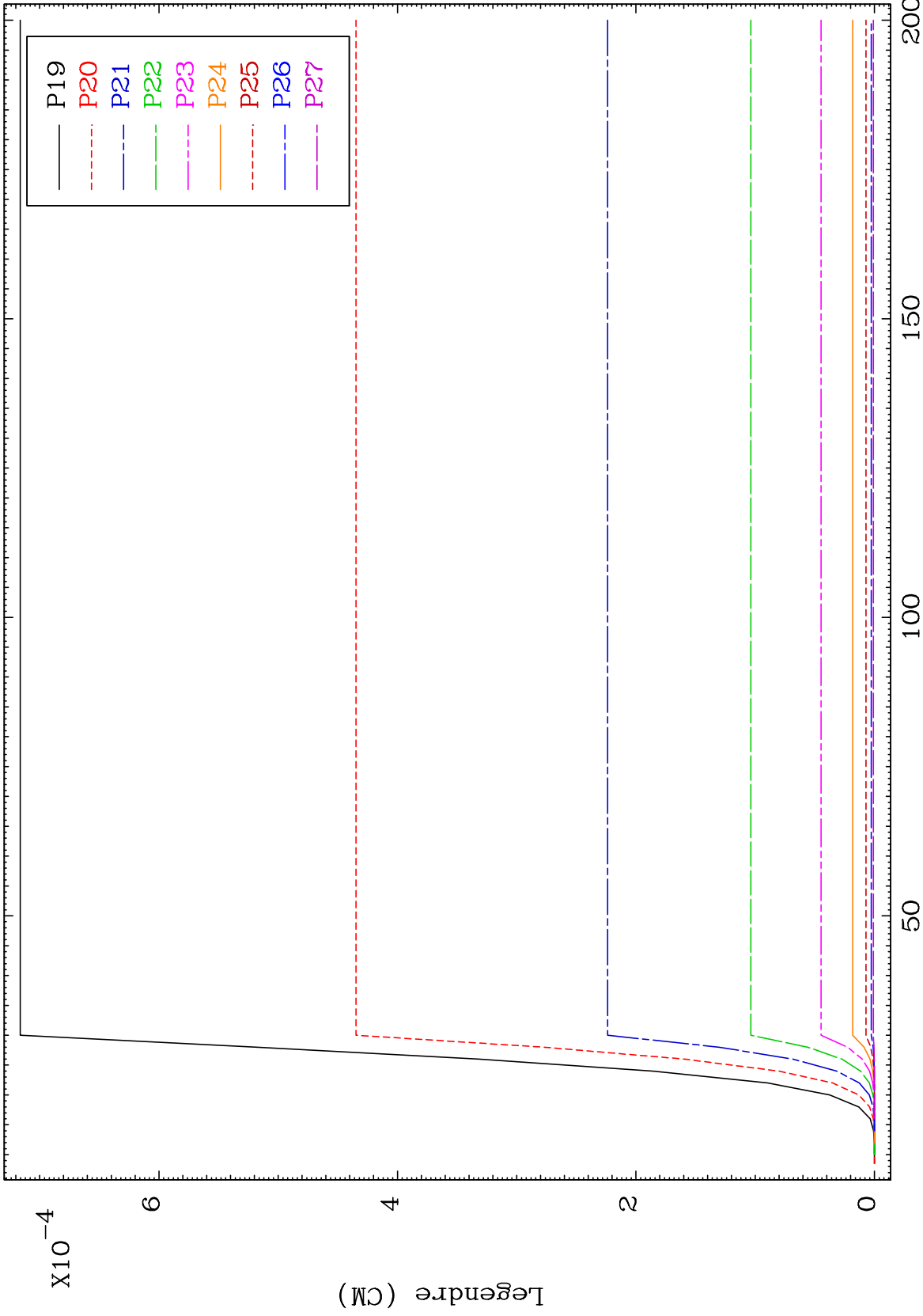
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98



40-Zr-98

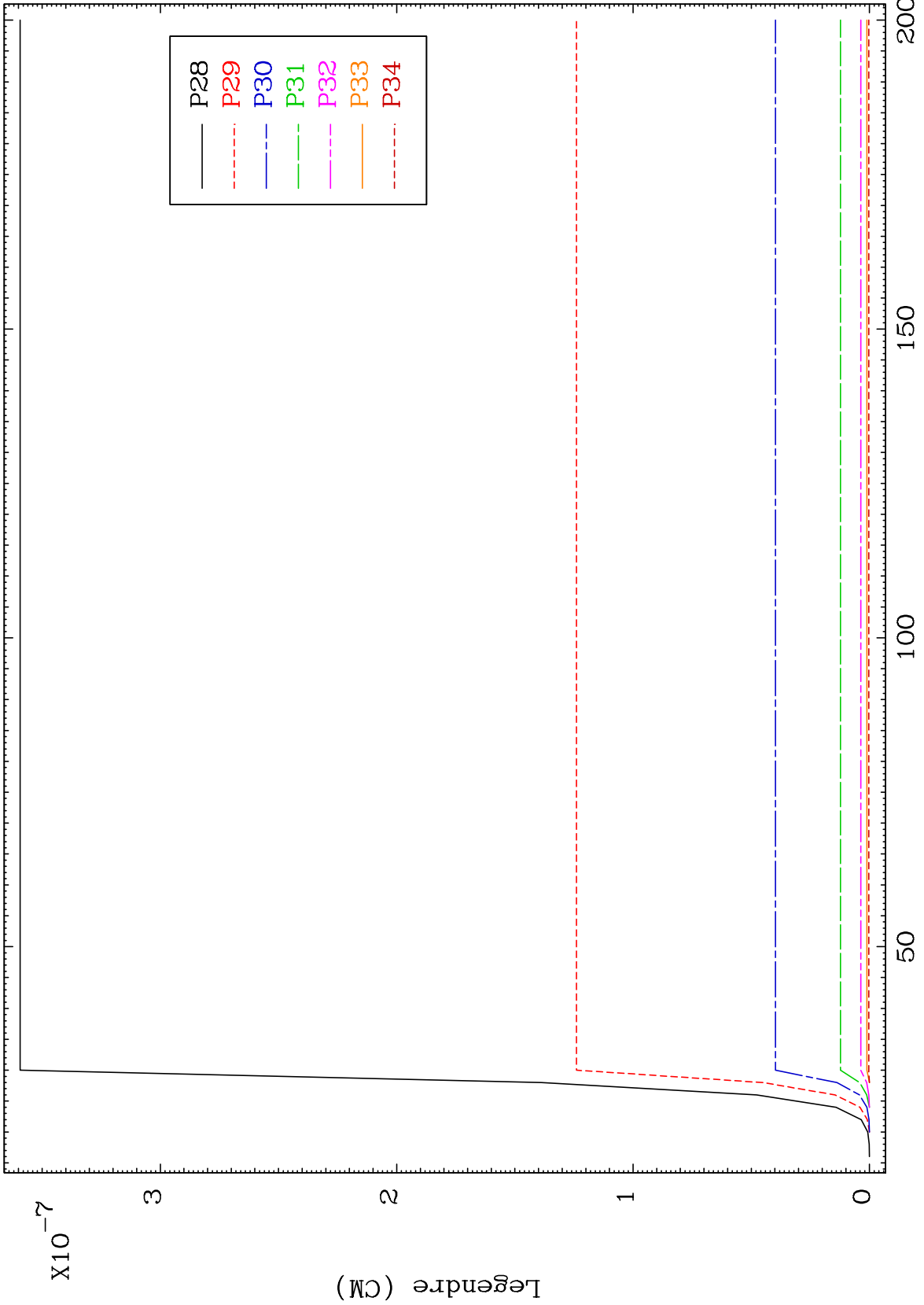
Incident Energy (MeV)

59

MAT 4049

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

40-Zr-98

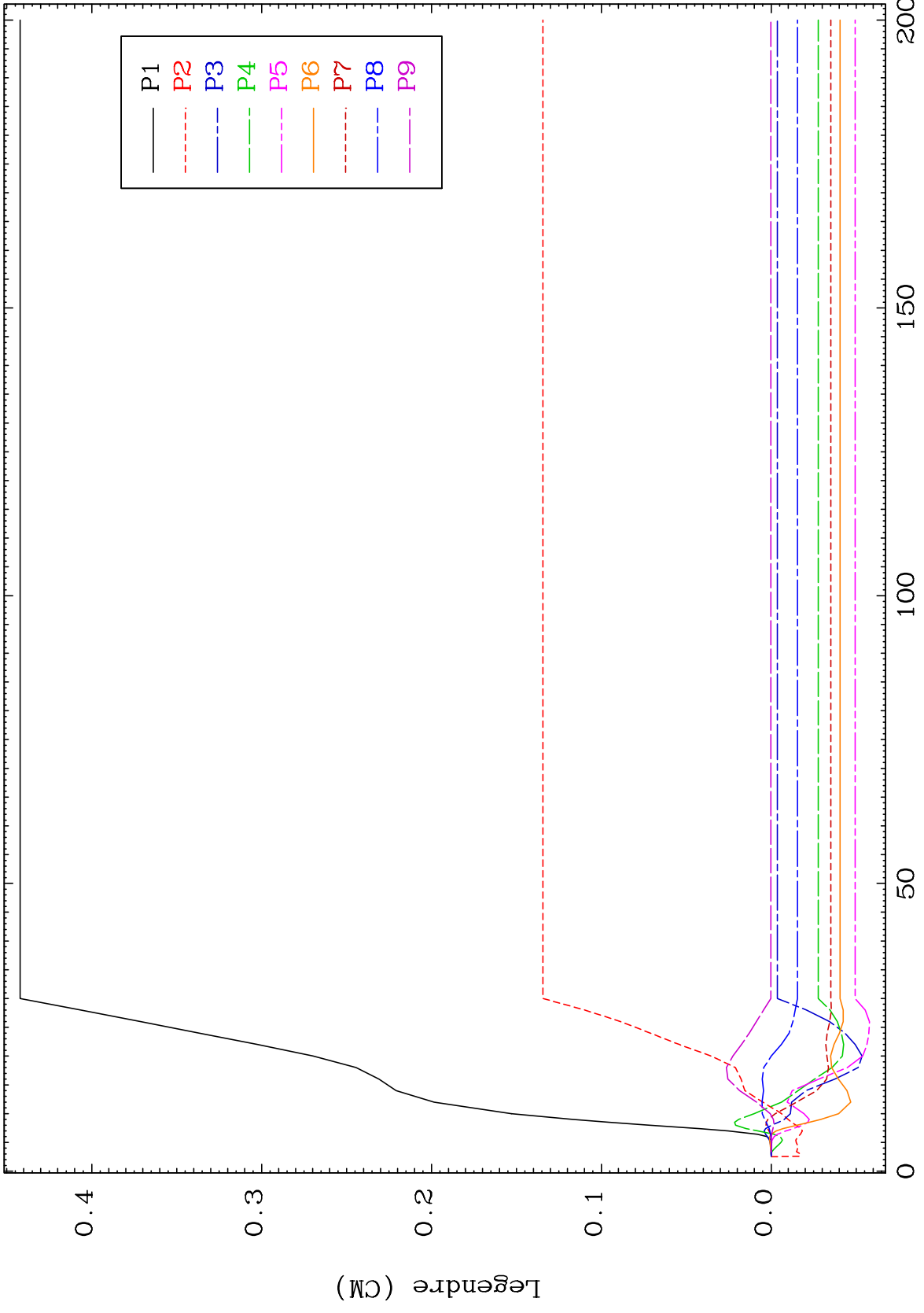


60

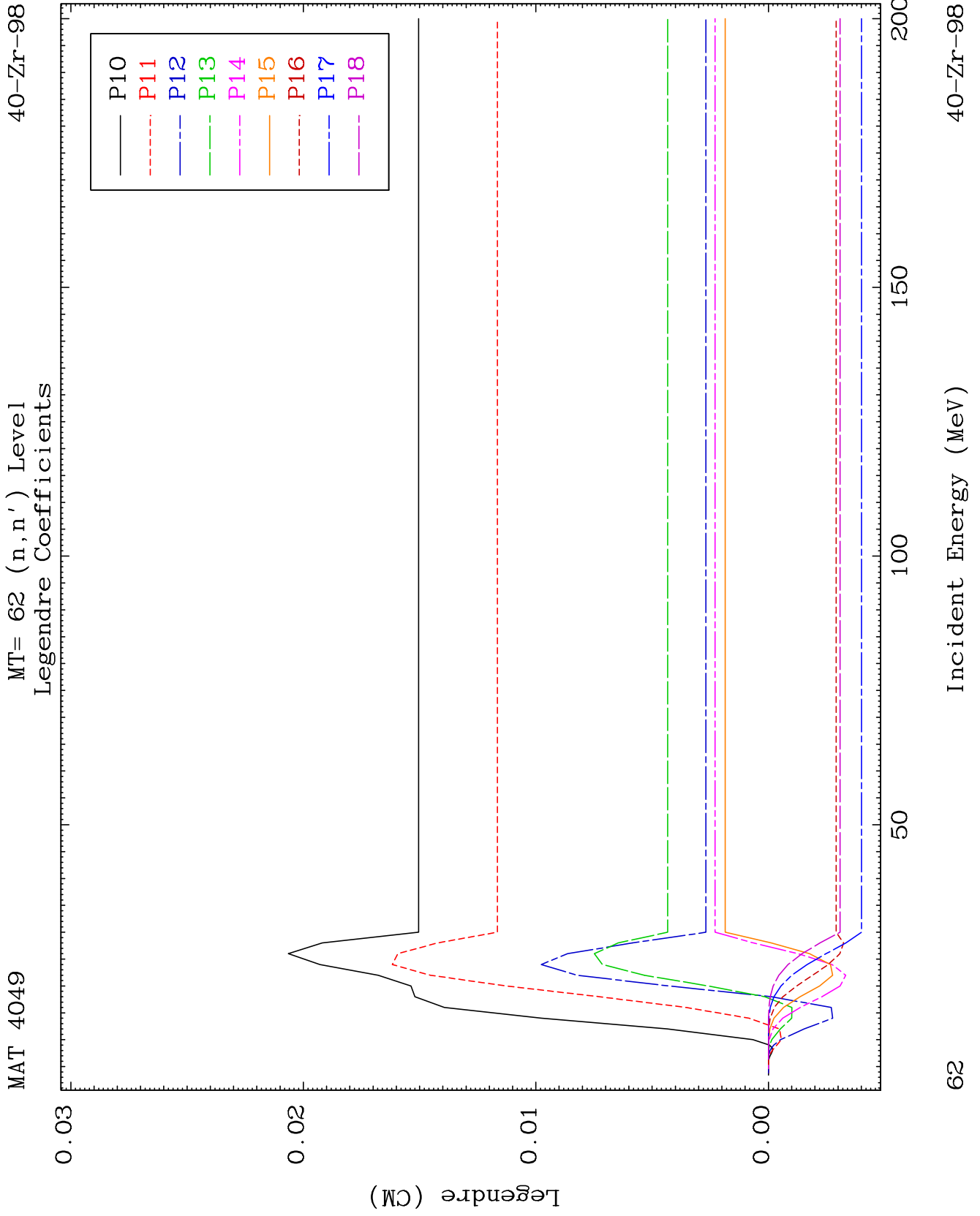
Incident Energy (MeV)

40-Zr-98

MAT 4049 MT= 62 (n,n') Level Legendre Coefficients 40-Zr-98



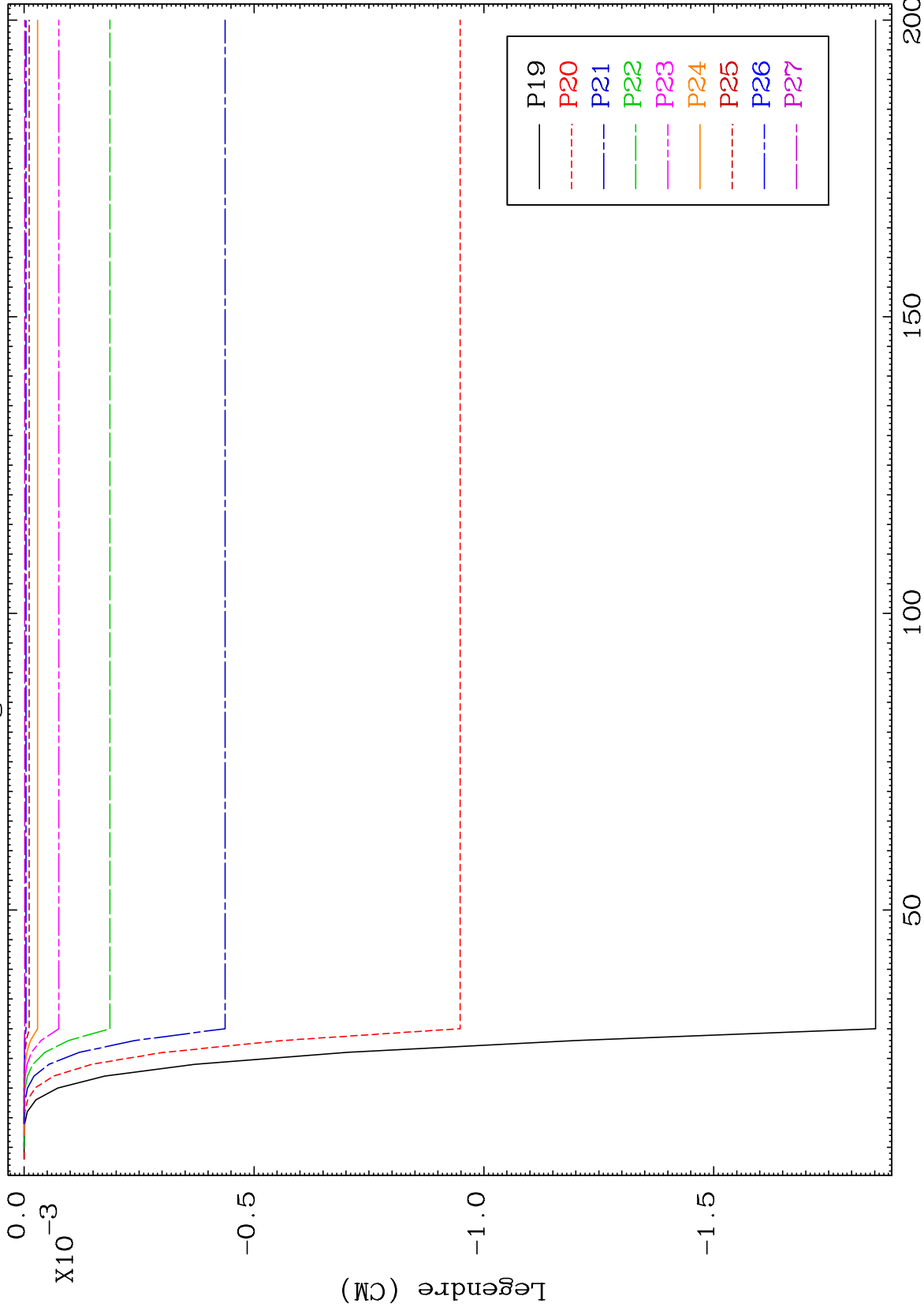
61 40-Zr-98



MAT 4049

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

40-Zr-98



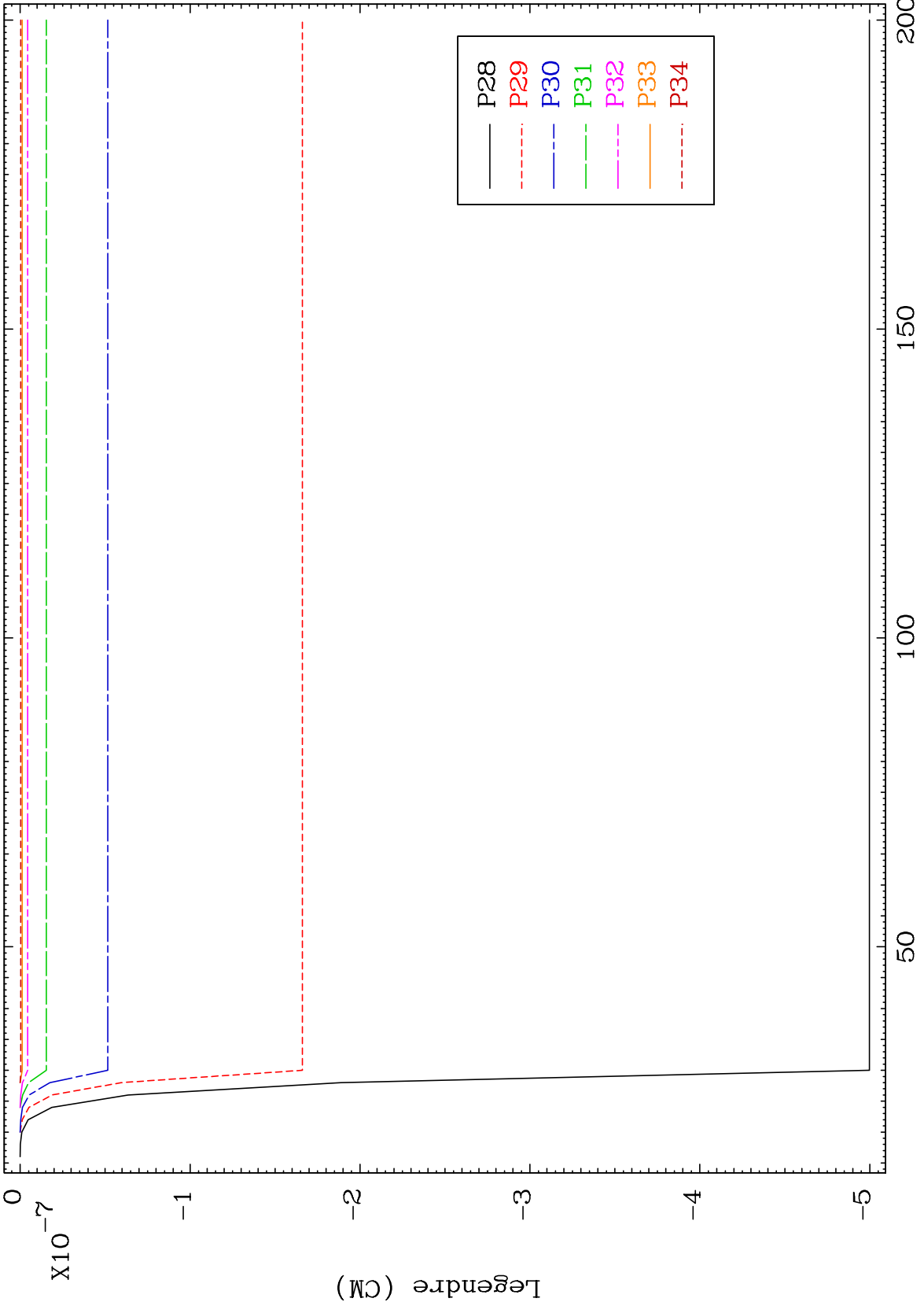
40-Zr-98

Incident Energy (MeV)

63



MAT 4049 MT= 62 (n,n') Level Legendre Coefficients 40-Zr-98

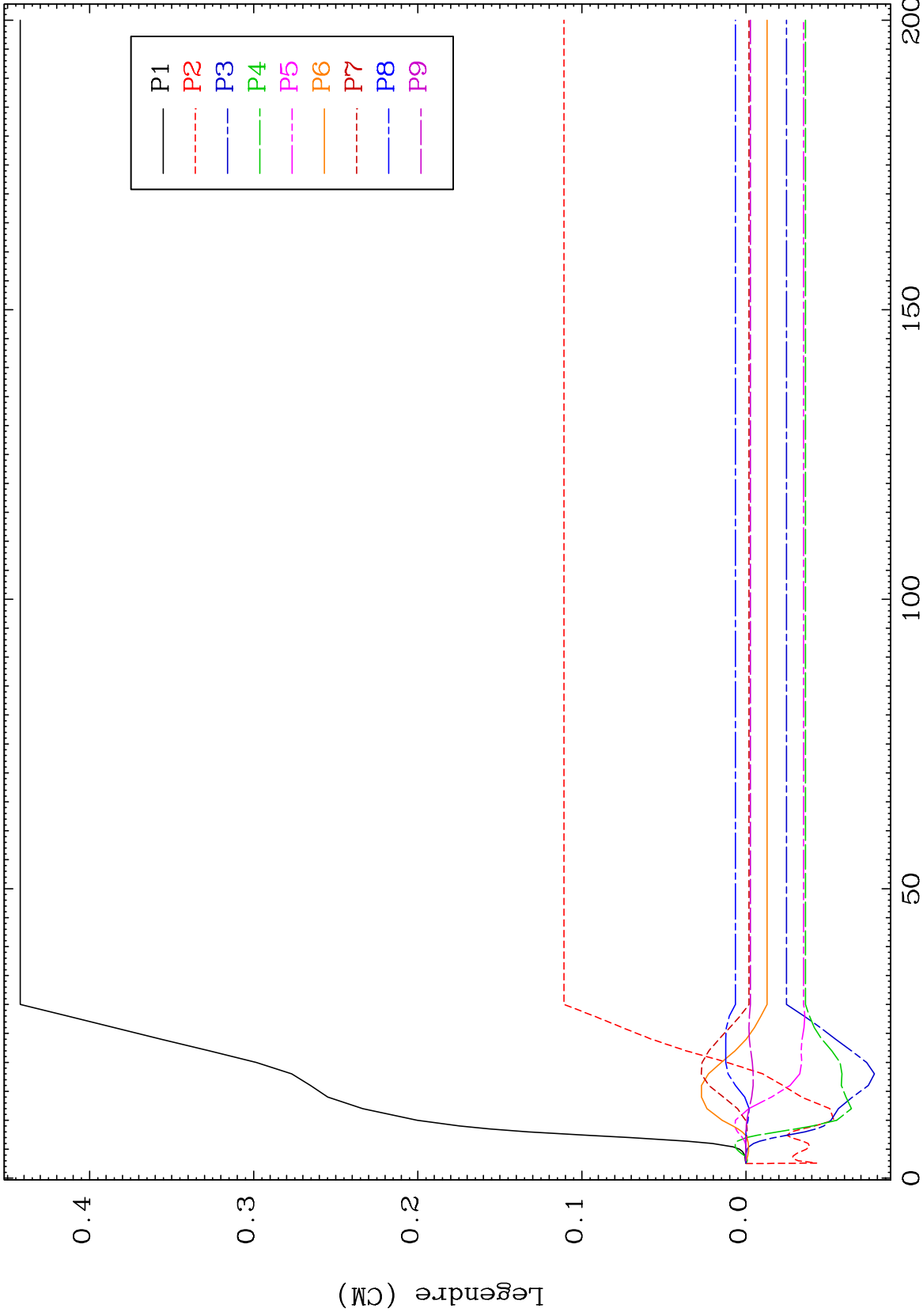


64 40-Zr-98

MAT 4049

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

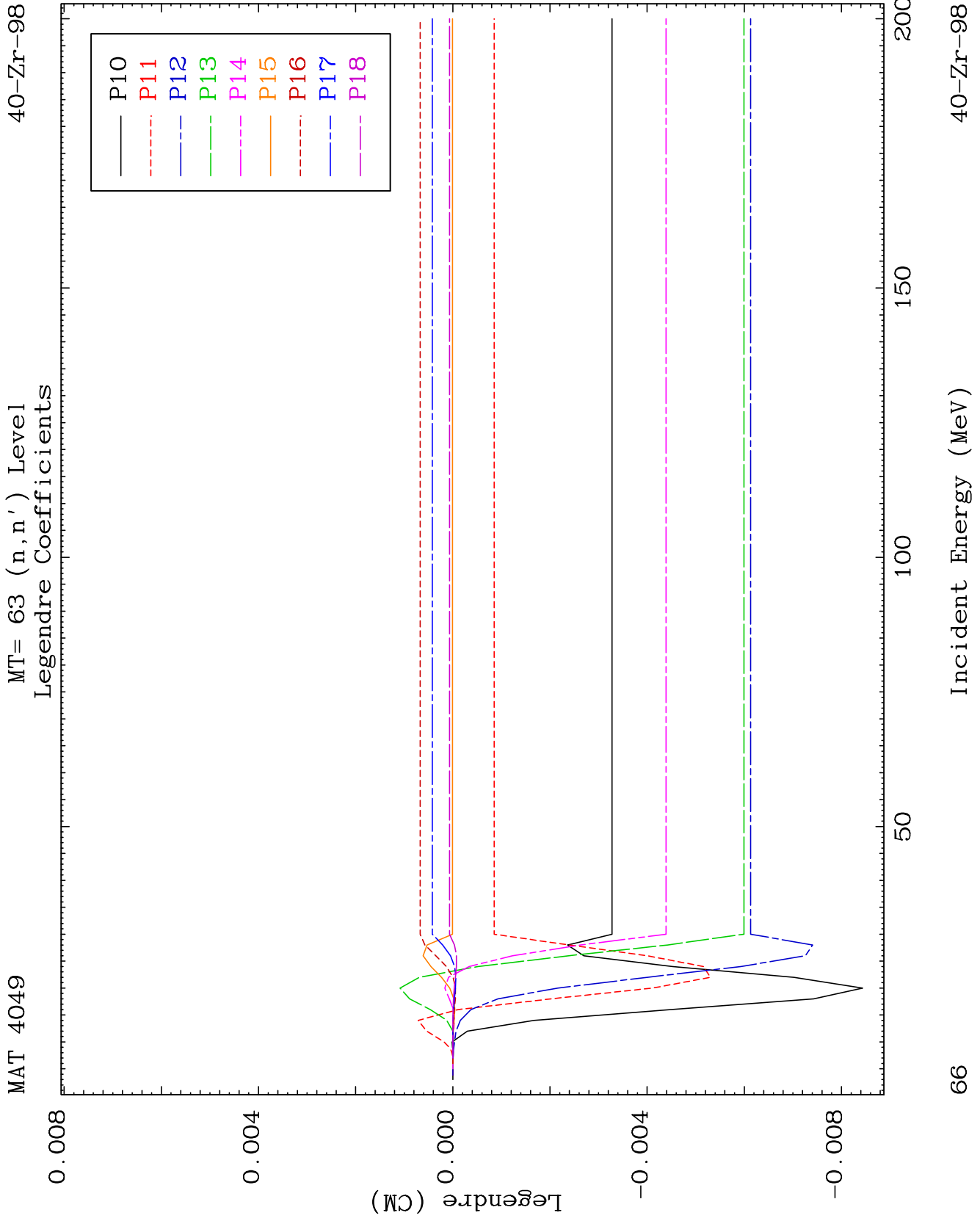
40-Zr-98



65

Incident Energy (MeV)

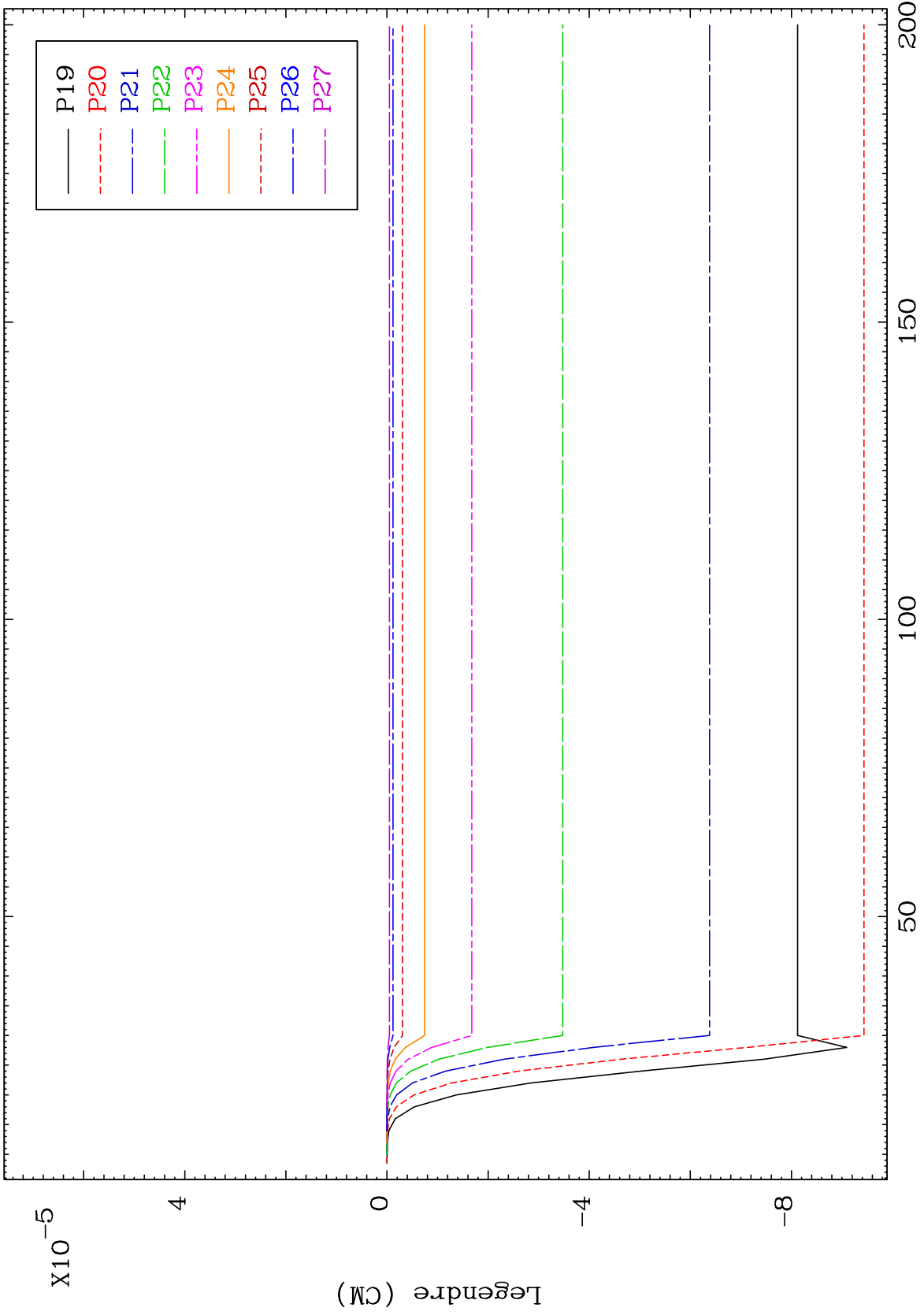
40-Zr-98



MAT 4049

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

40-Zr-98



67

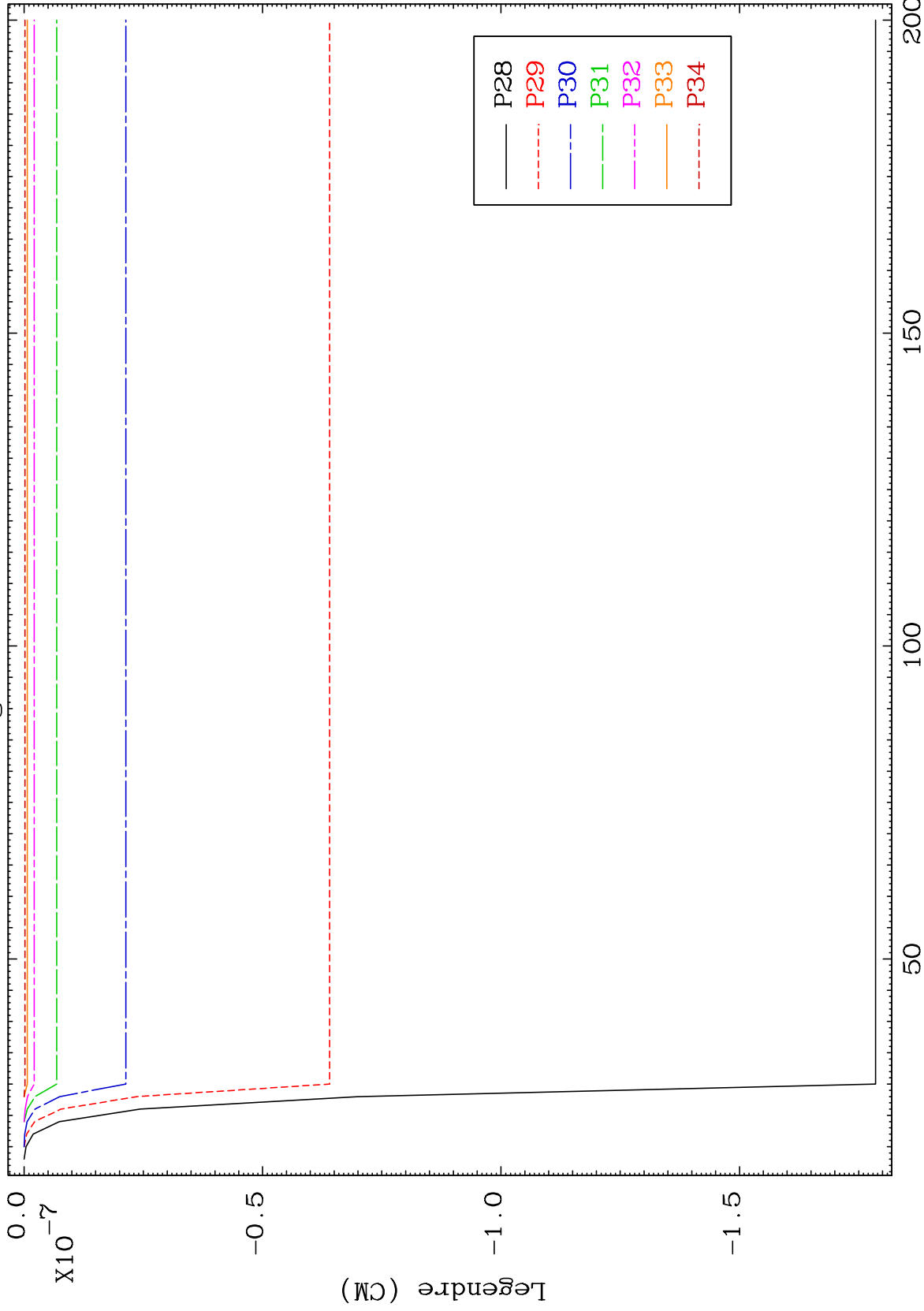
Incident Energy (MeV)

40-Zr-98

MAT 4049

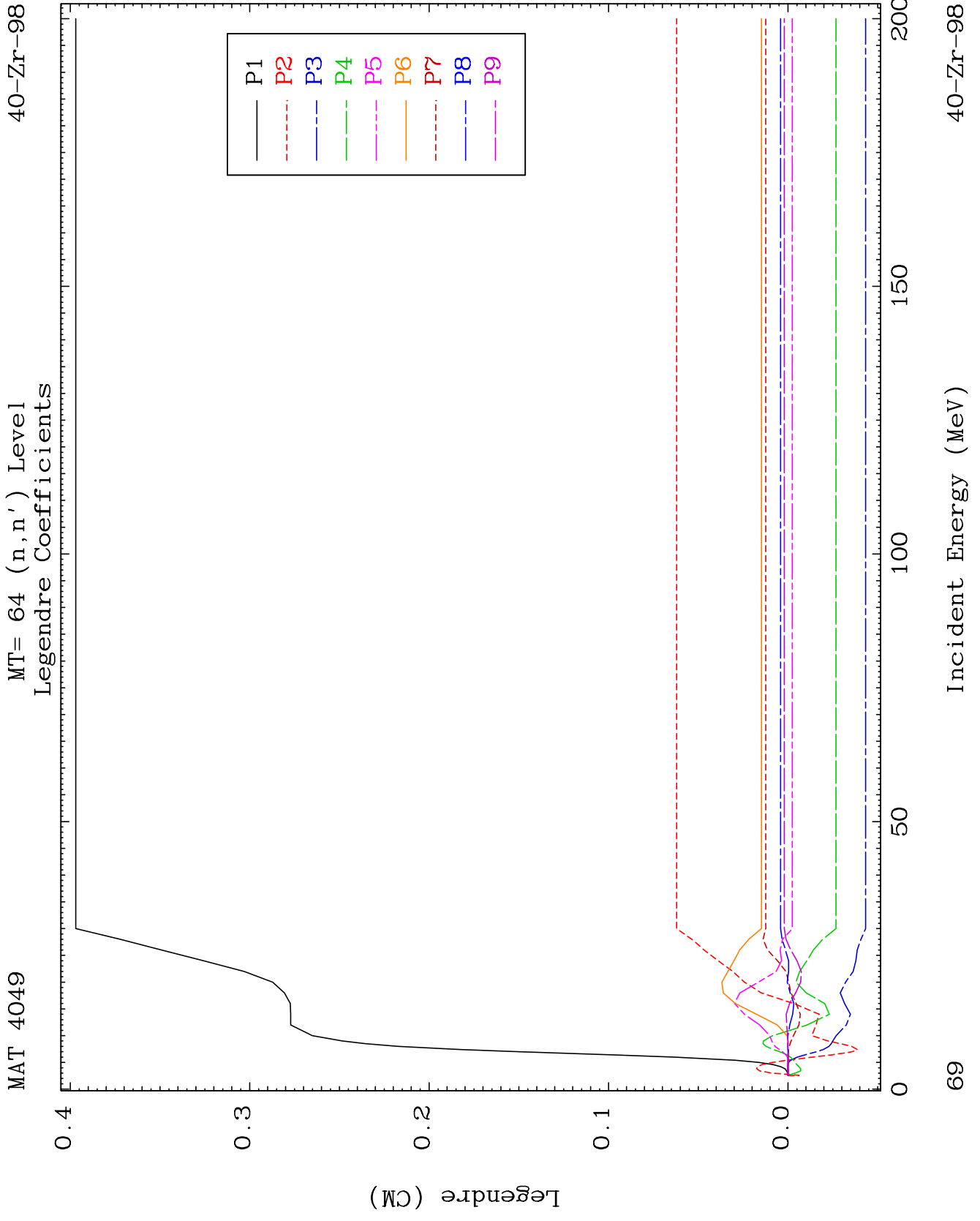
MT= 63 (n,n') Level  
Legendre Coefficients

40-Zr-98



68

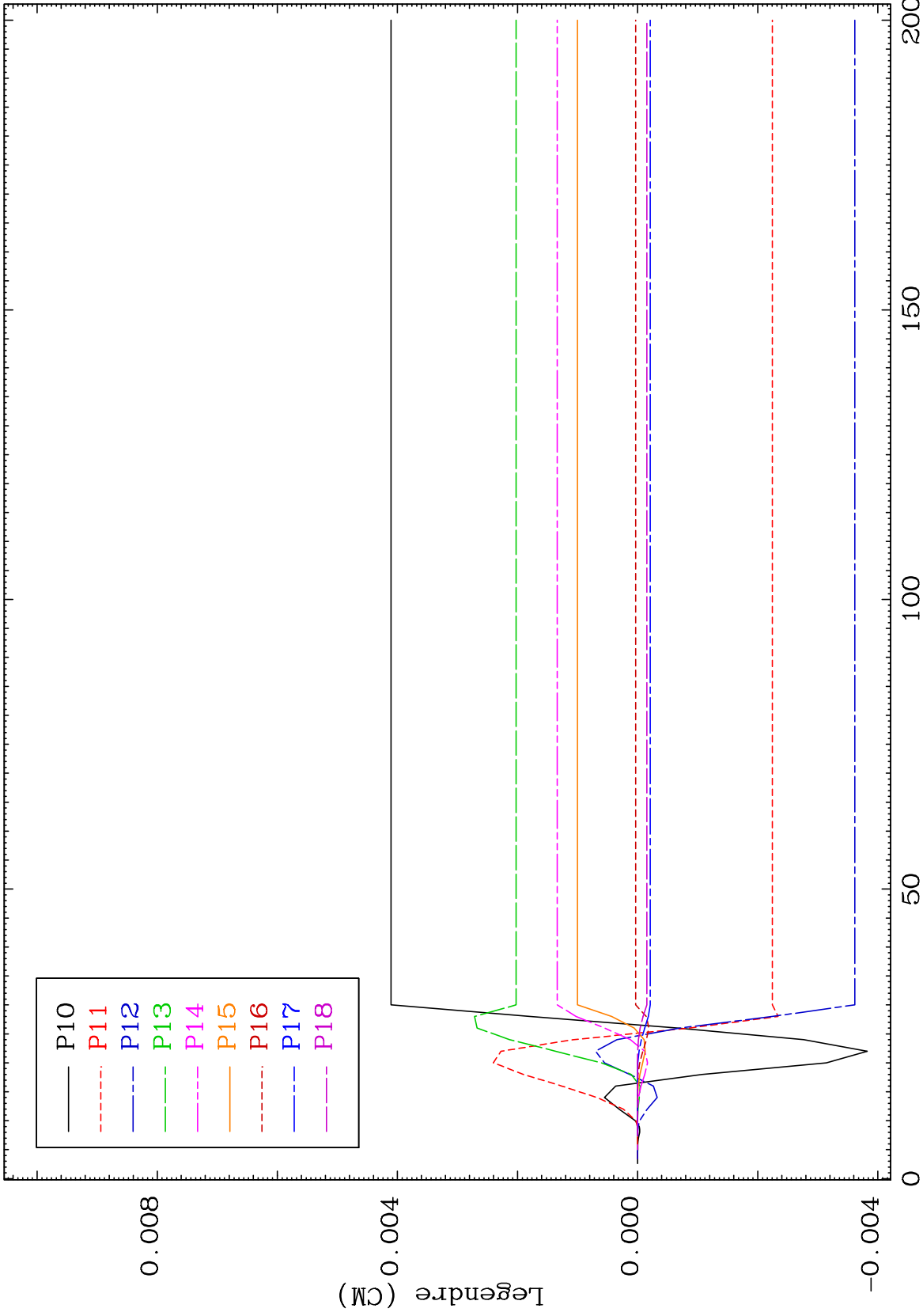
40-Zr-98



MAT 4049

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

40-Zr-98



70

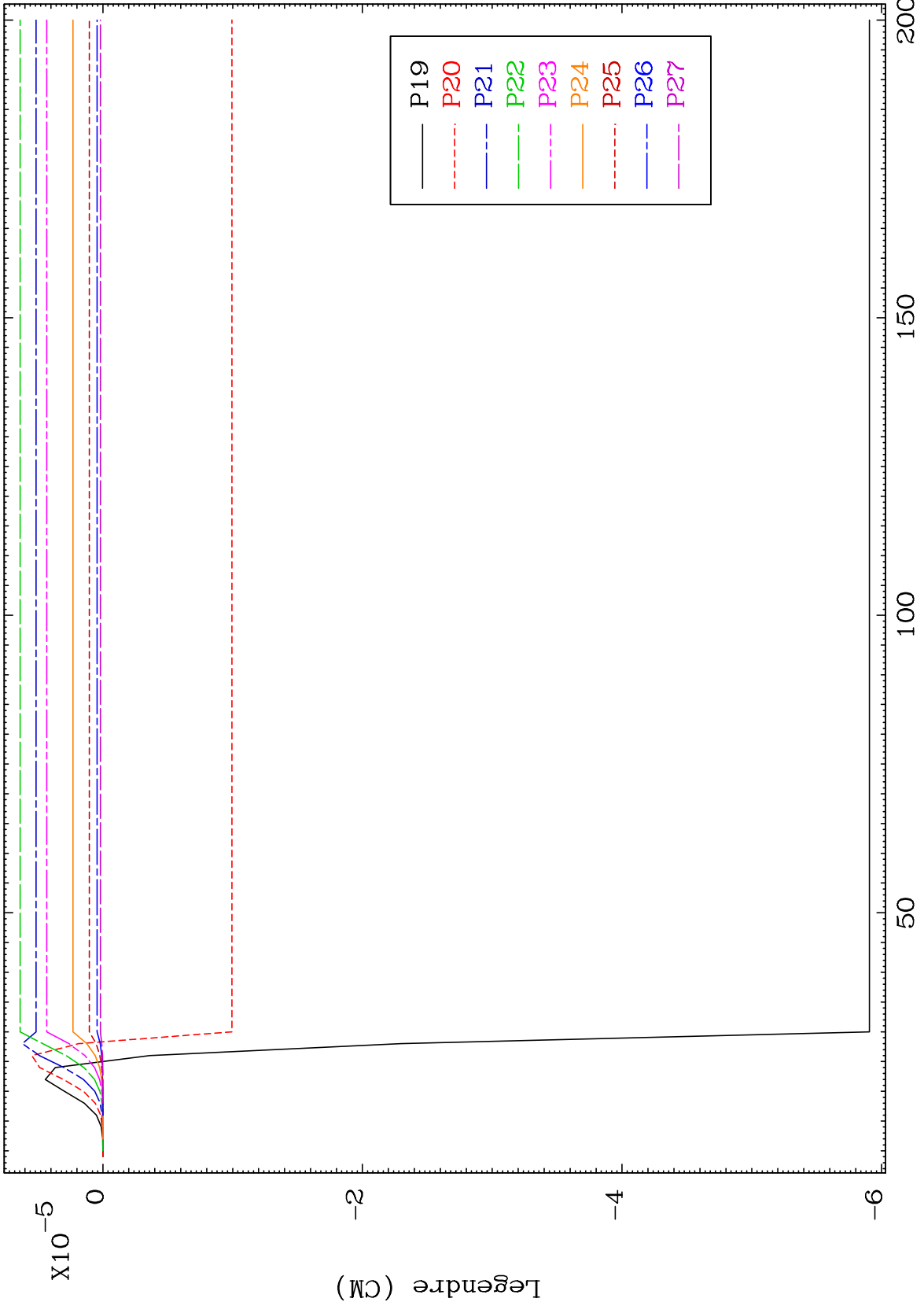
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98

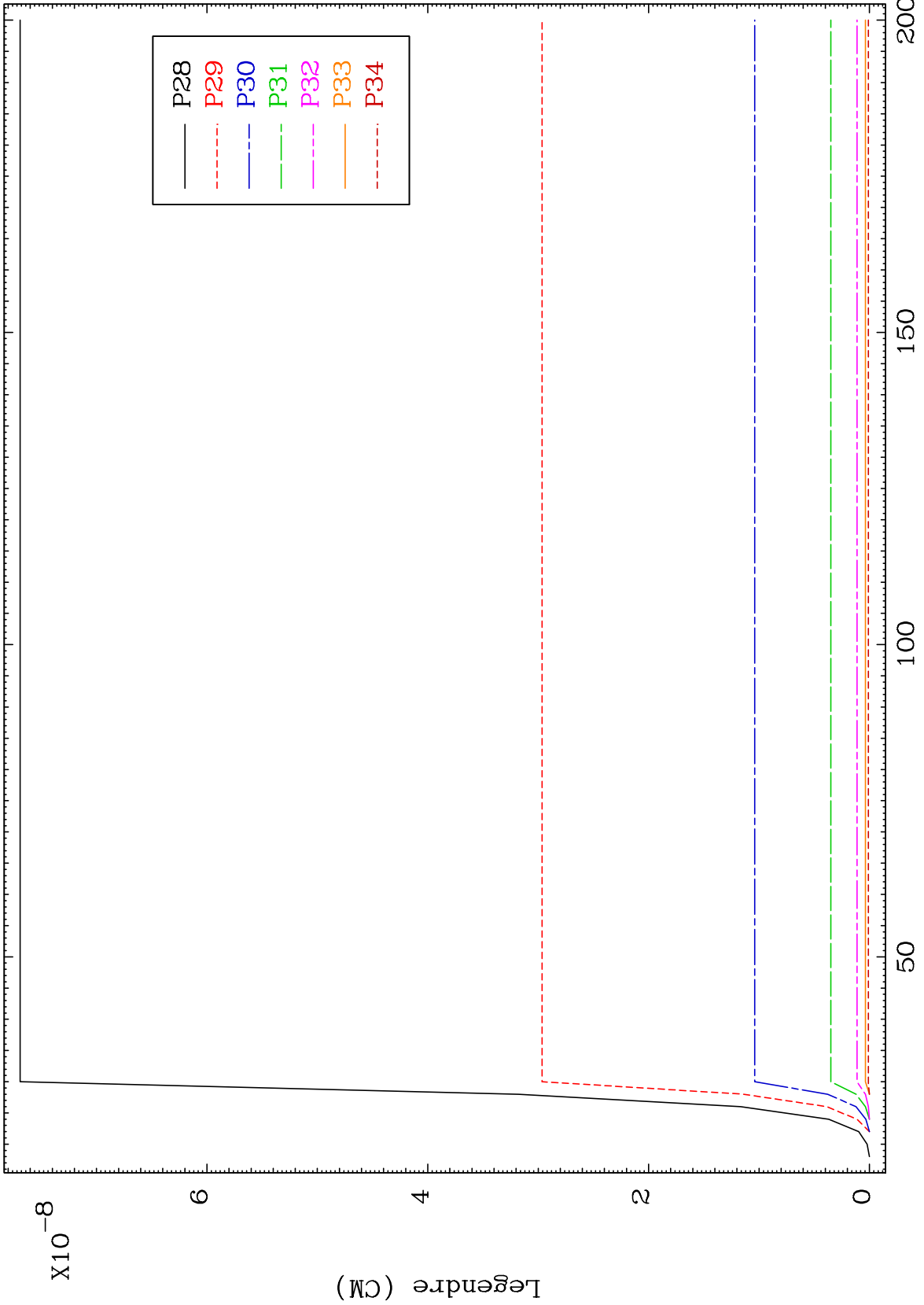




MAT 4049

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

40-Zr-98

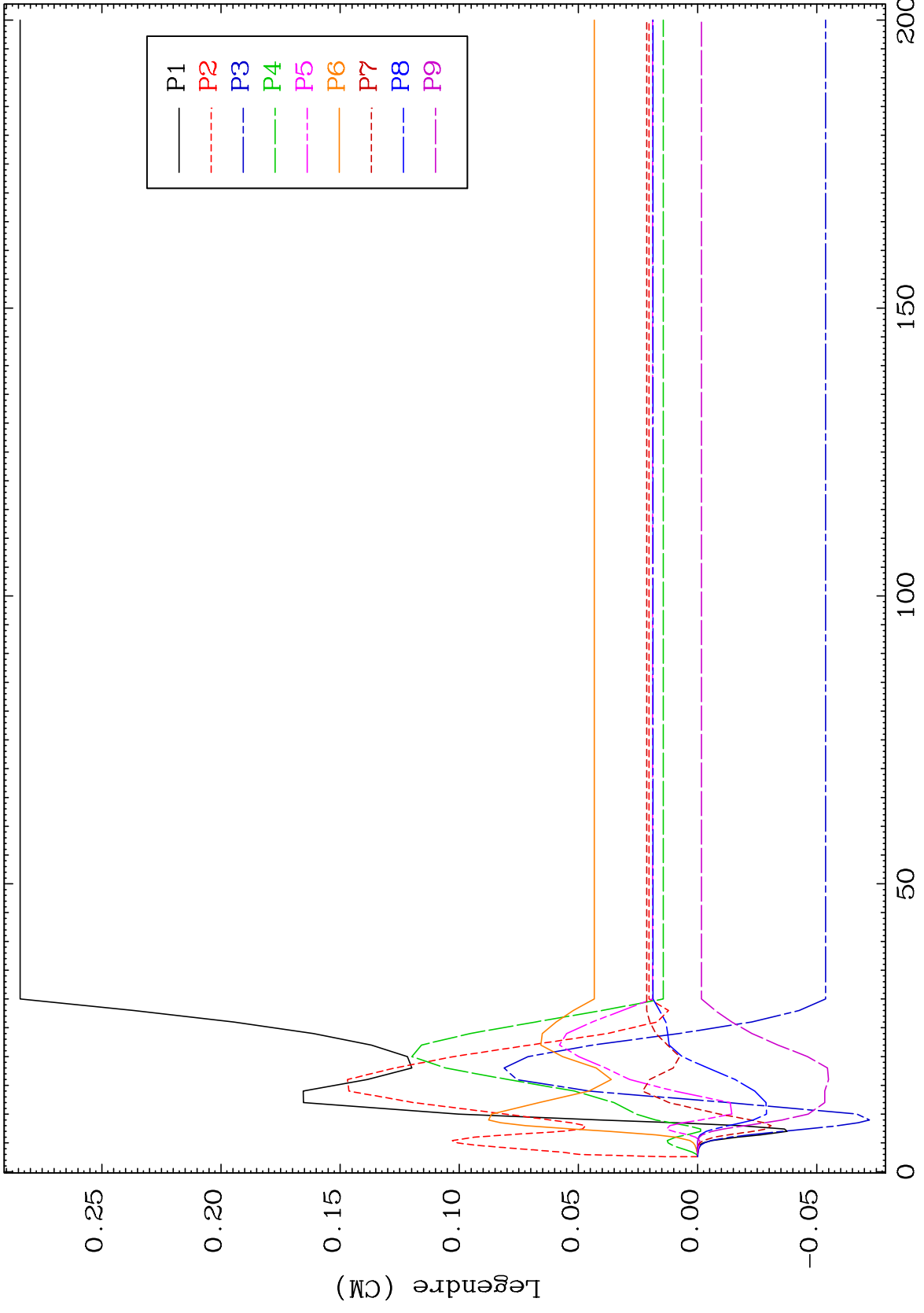


72

Incident Energy (MeV)

40-Zr-98

MAT 4049 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-98

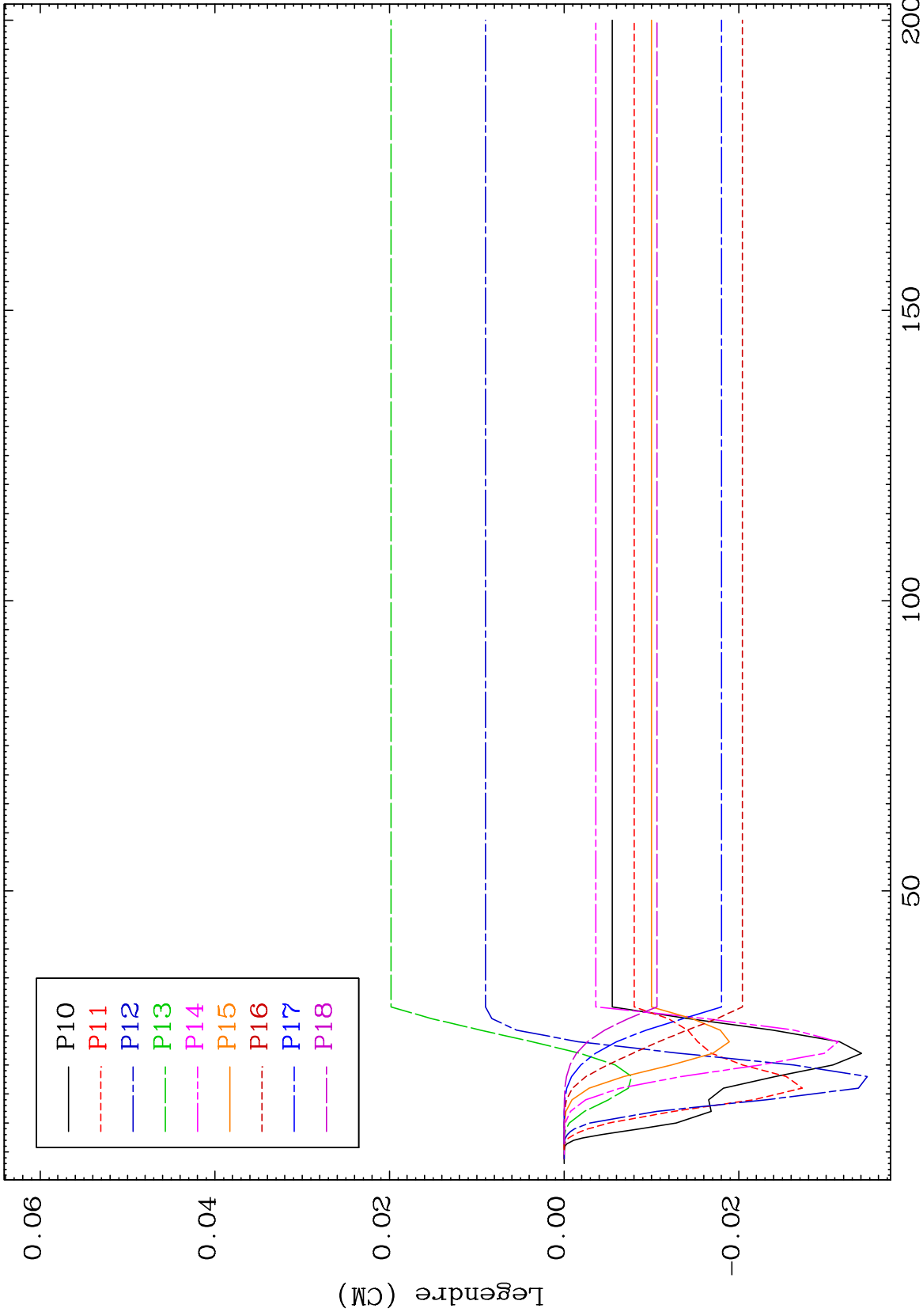


73 Incident Energy (MeV) 40-Zr-98

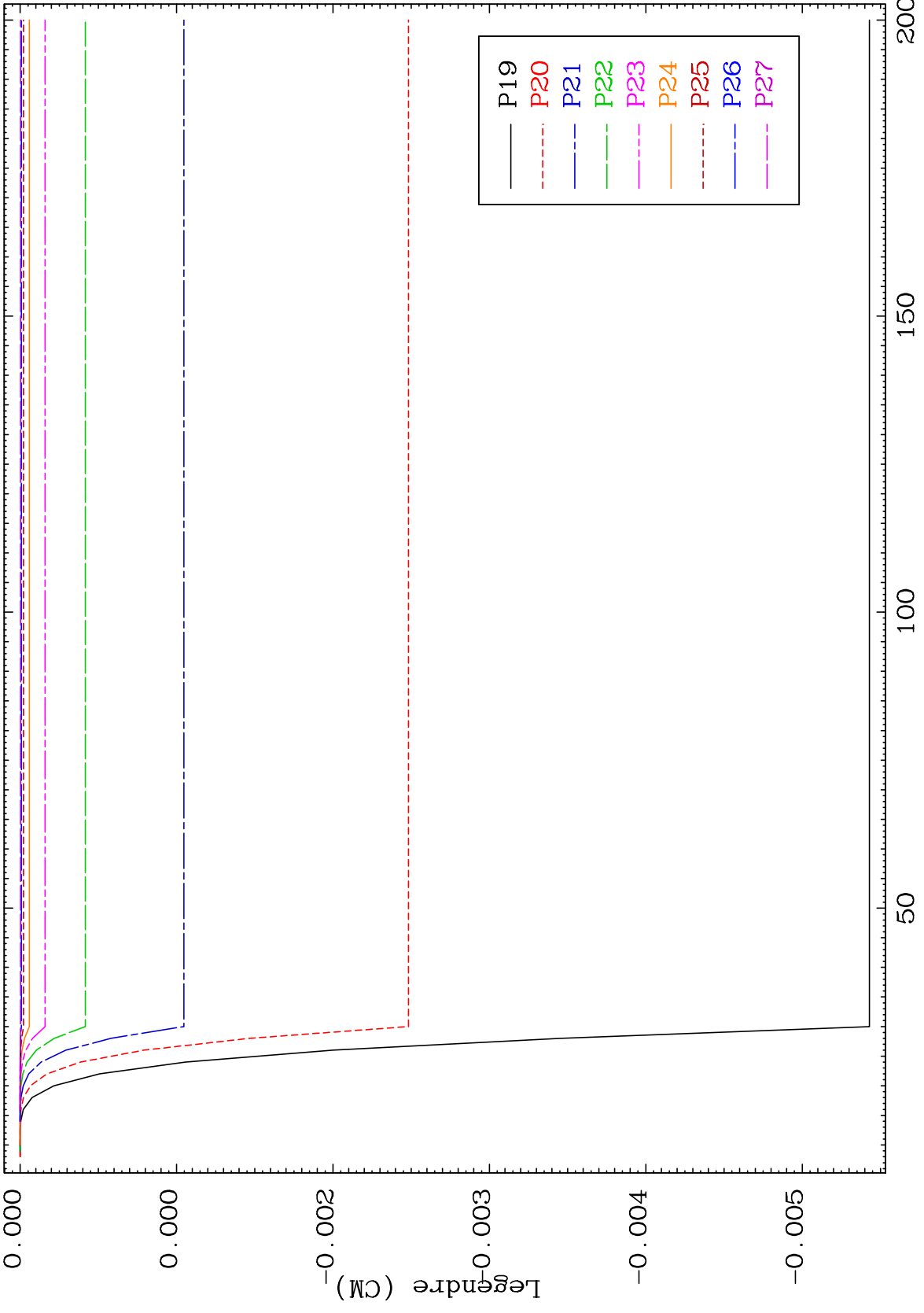
MAT 4049

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

40-Zr-98

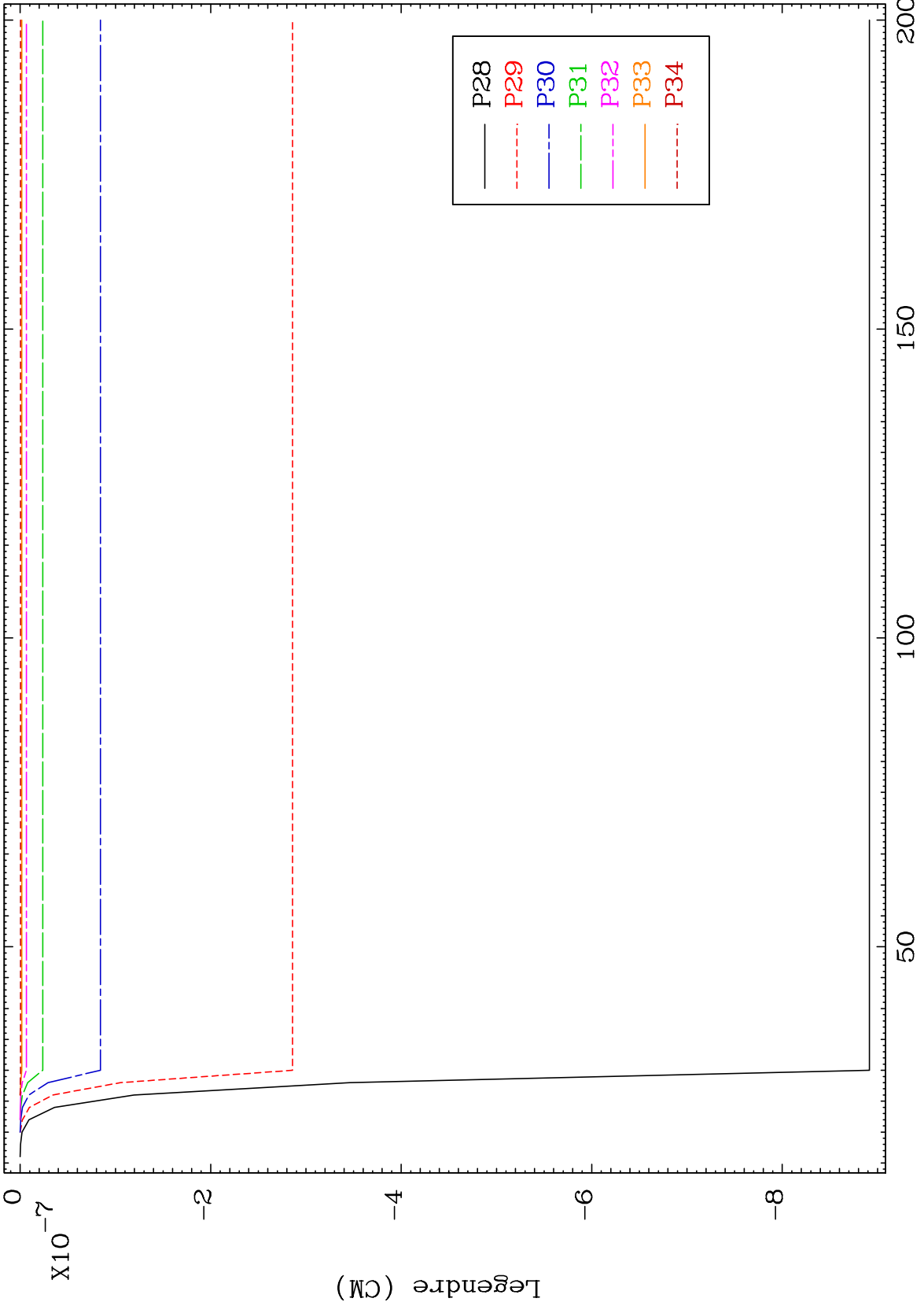


MAT 4049 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-98



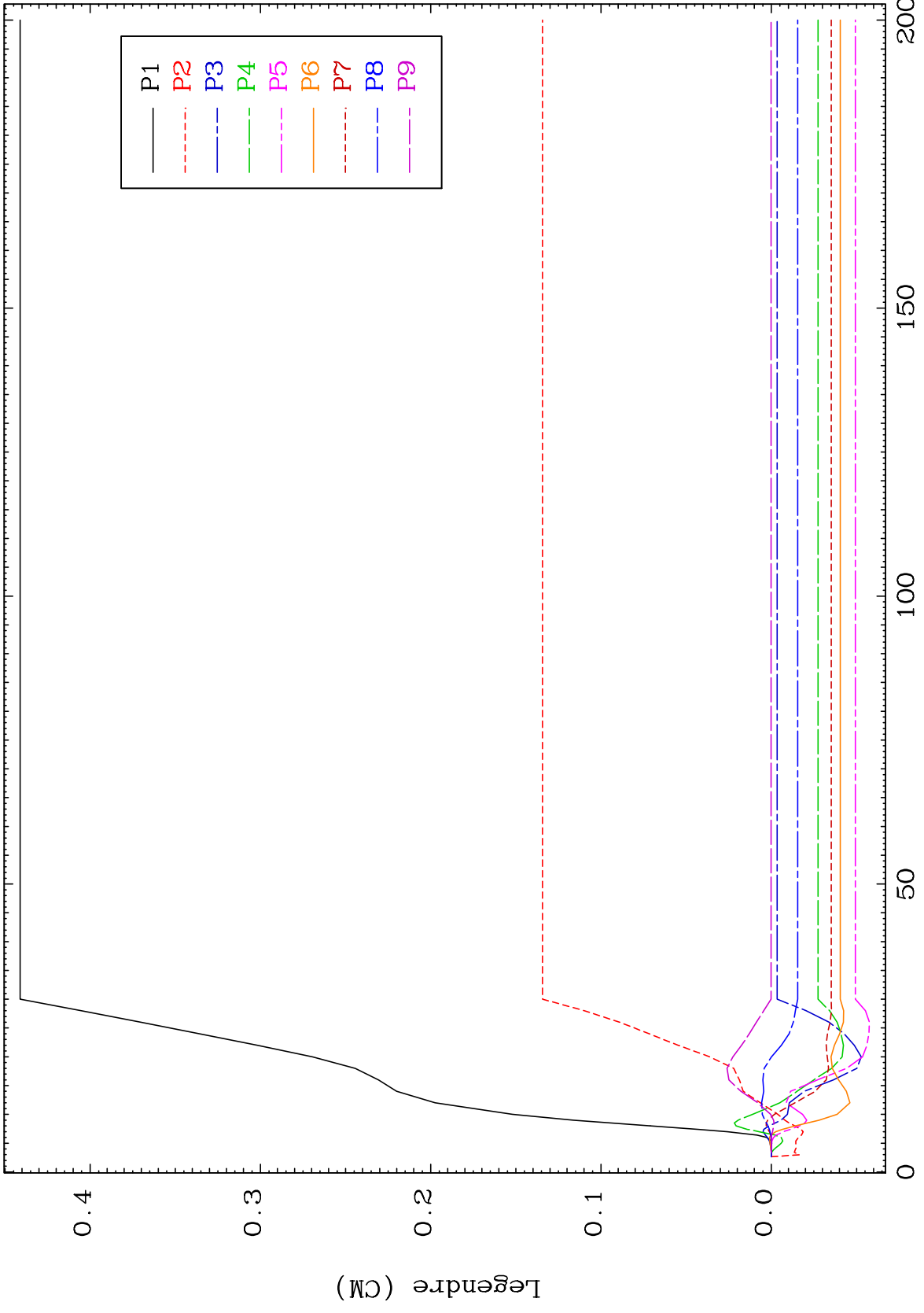
75 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-98



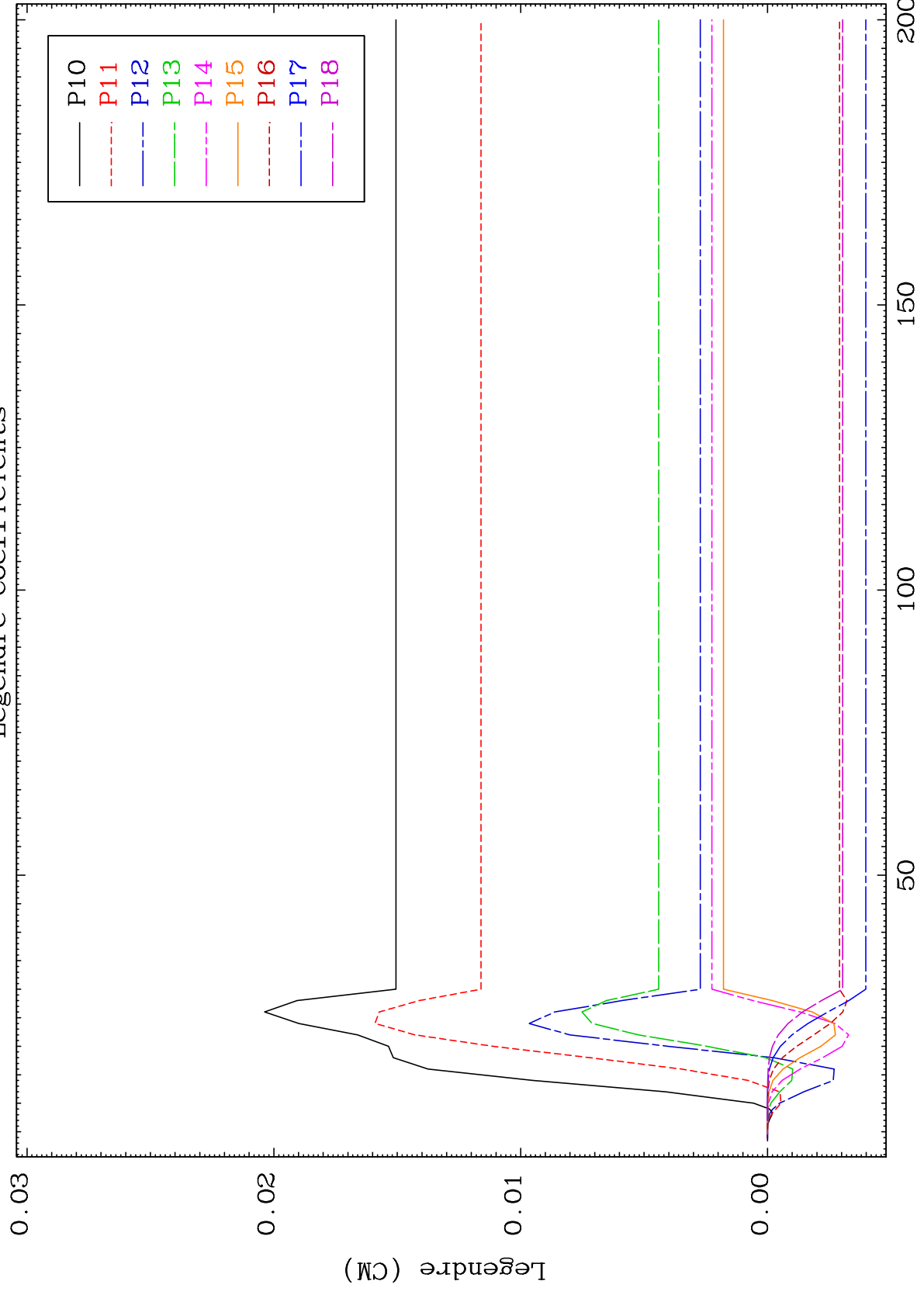
76 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 66 (n,n') Level Legendre Coefficients 40-Zr-98



77 40-Zr-98

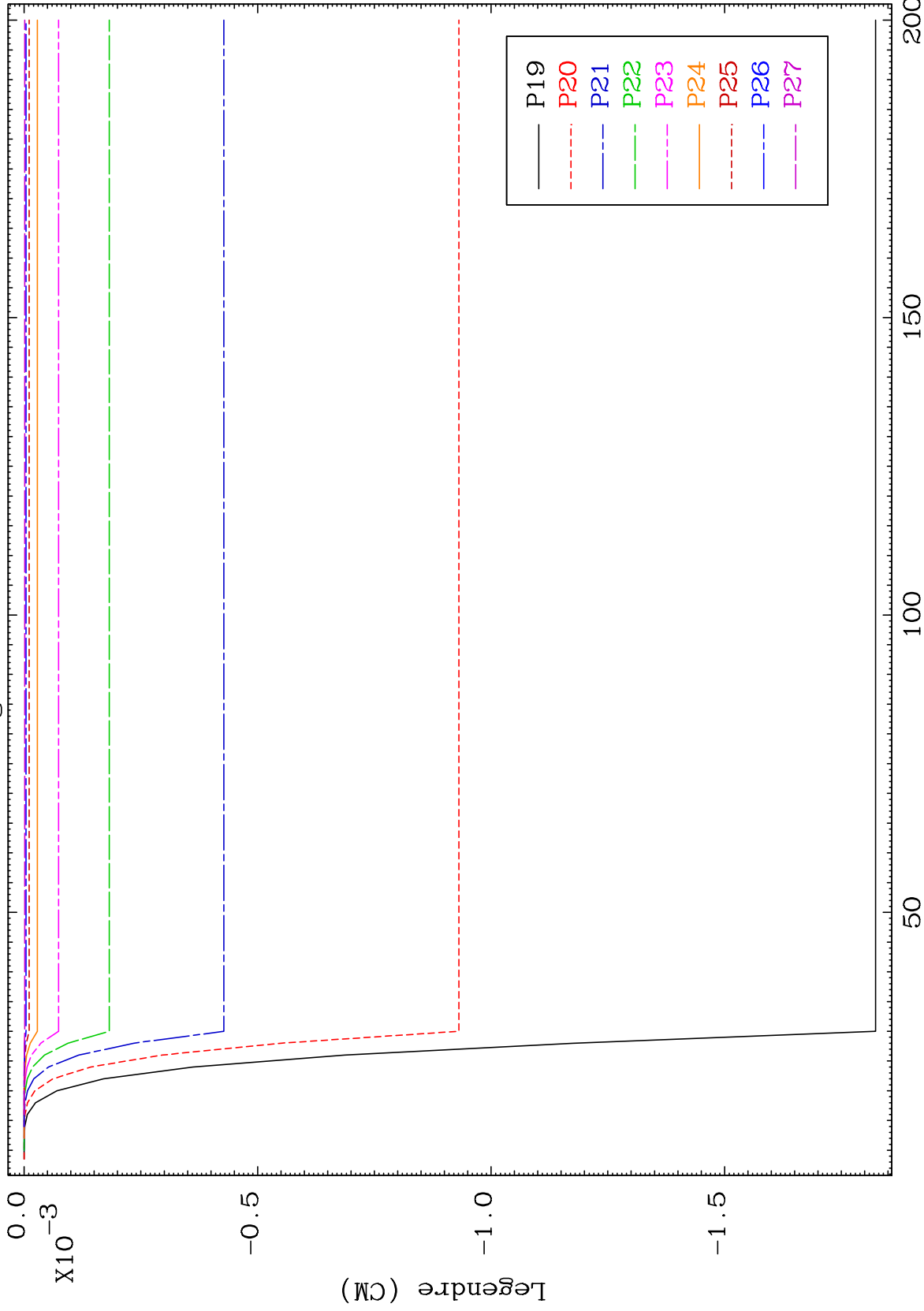
MAT 4049 MT= 66 (n,n') Level Legendre Coefficients 40-Zr-98



MAT 4049

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

40-Zr-98

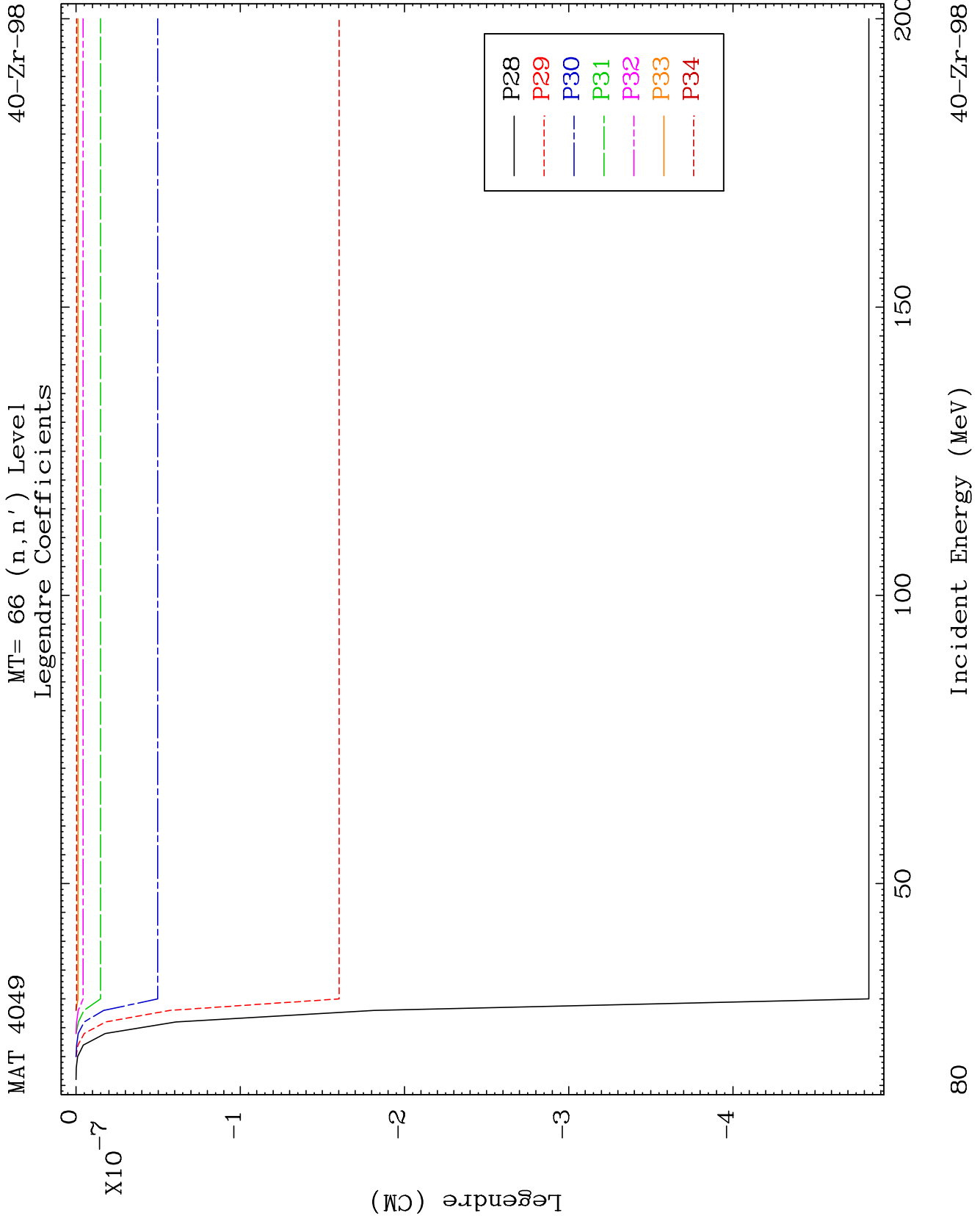


79

40-Zr-98

40-Zr-98

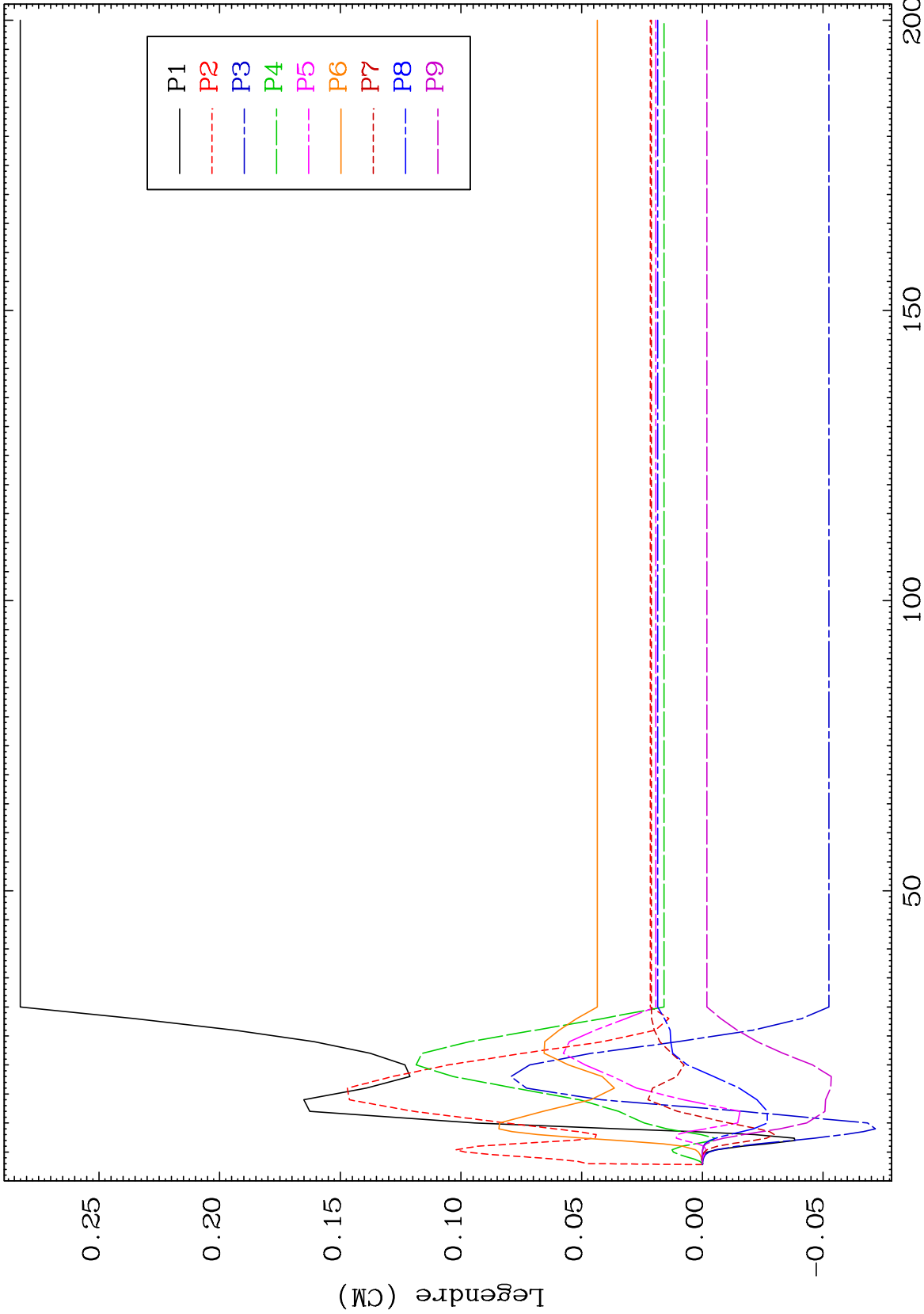




MAT 4049

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

40-Zr-98



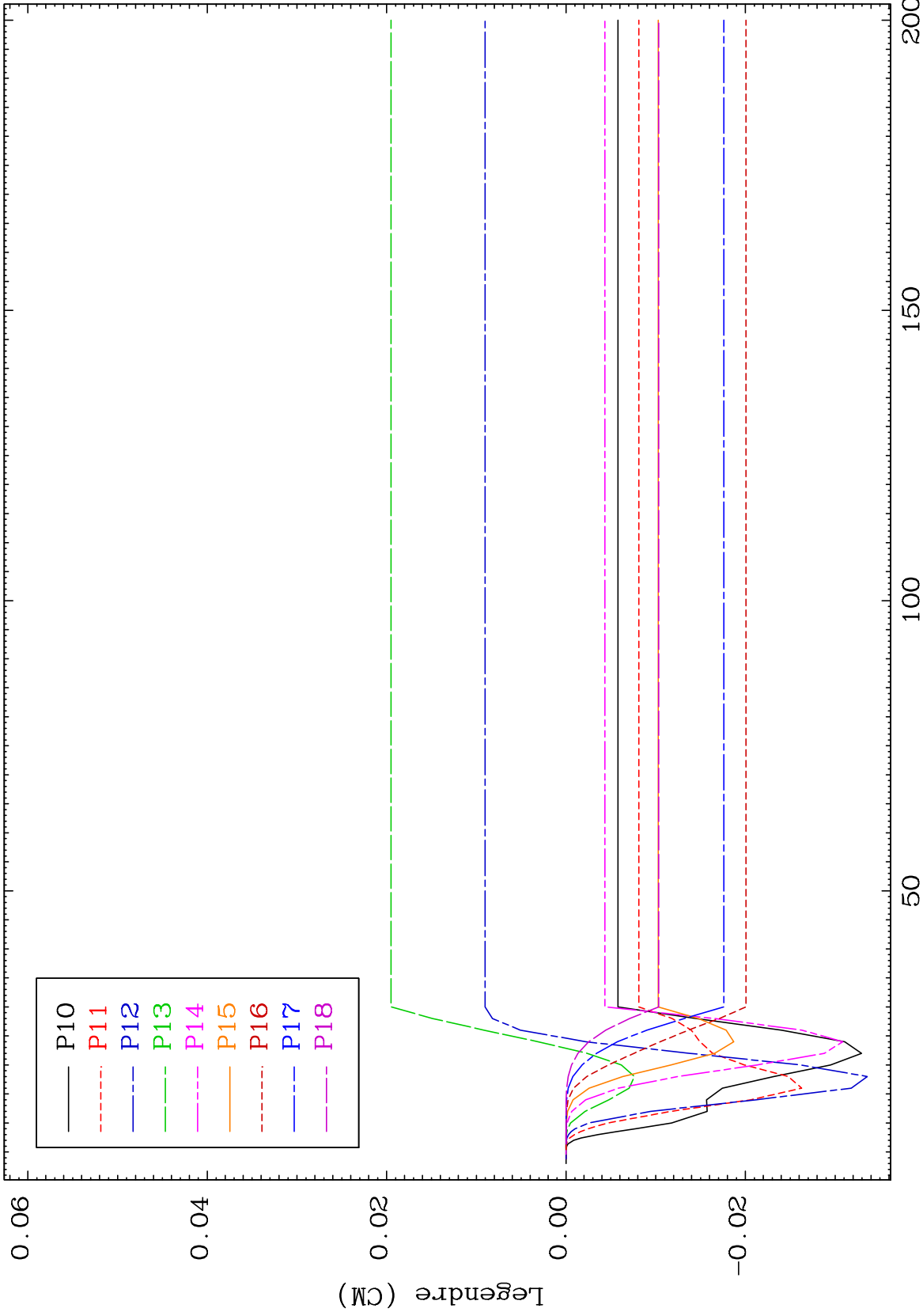
81

40-Zr-98

MAT 4049

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

40-Zr-98

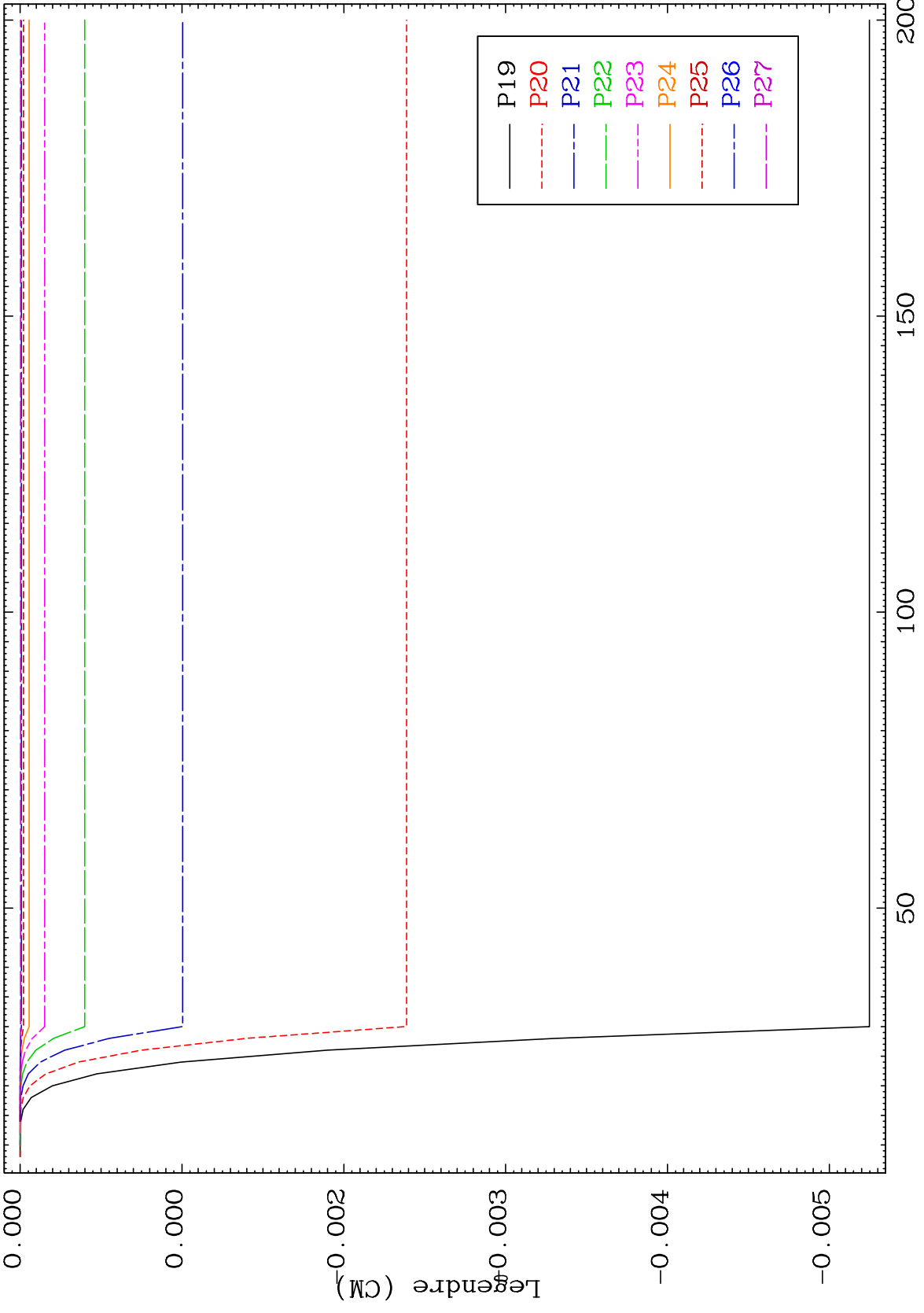


82

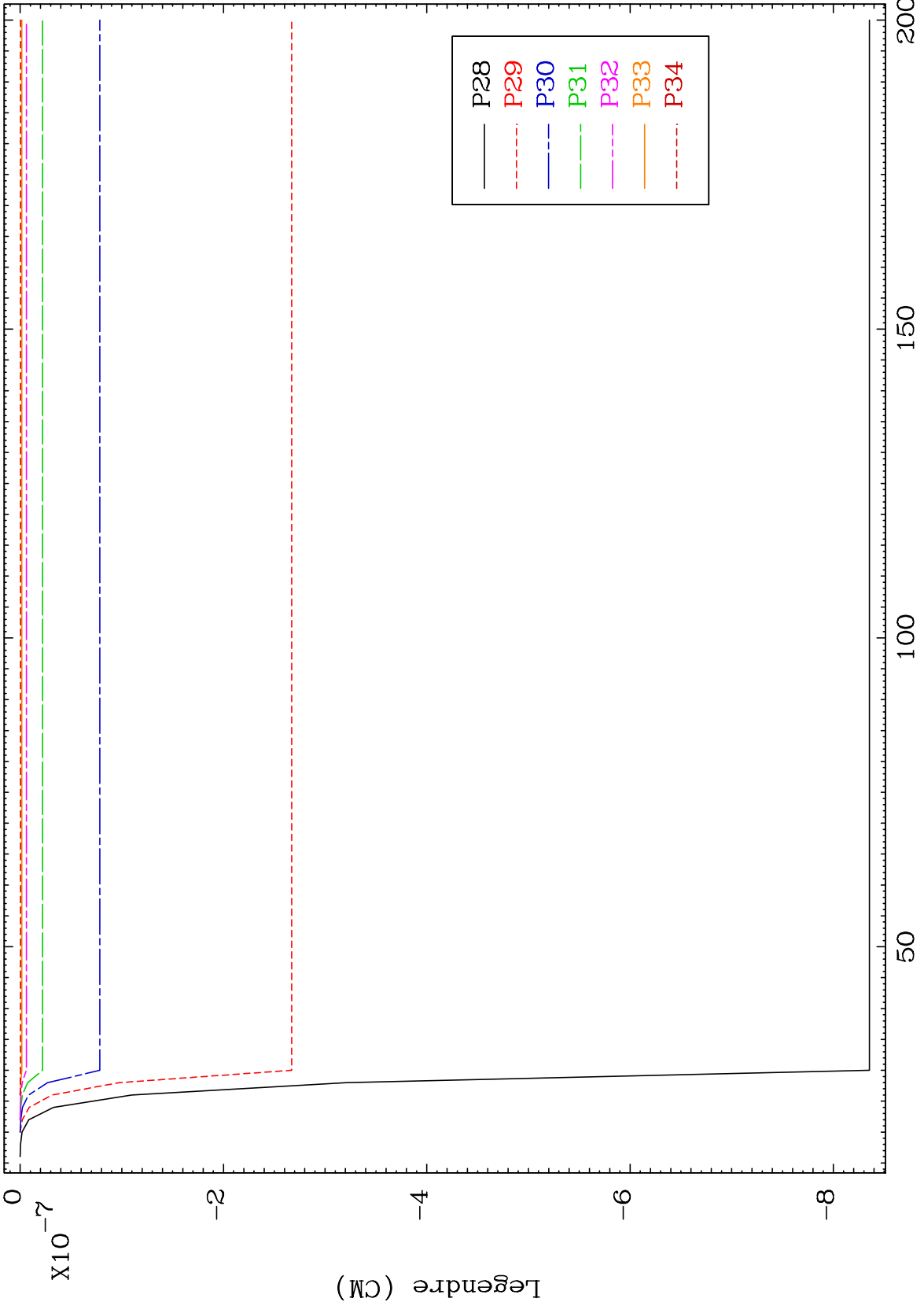
Incident Energy (MeV)

40-Zr-98

MAT 4049 MT= 67 (n, n') Level Legendre Coefficients 40-Zr-98



MAT 4049 MT= 67 (n,n') Level Legendre Coefficients 40-Zr-98

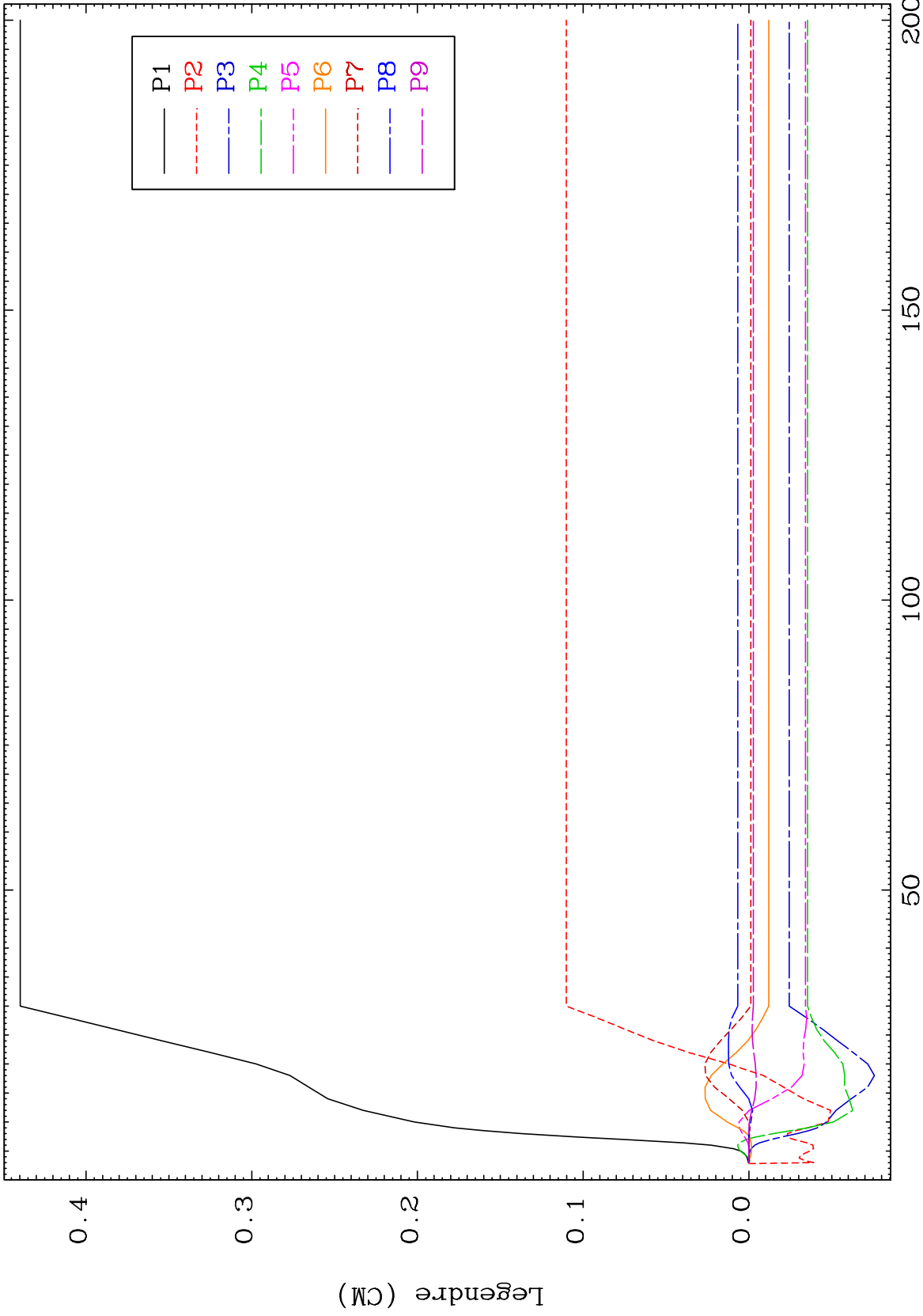


84 40-Zr-98

MAT 4049

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

40-Zr-98



85

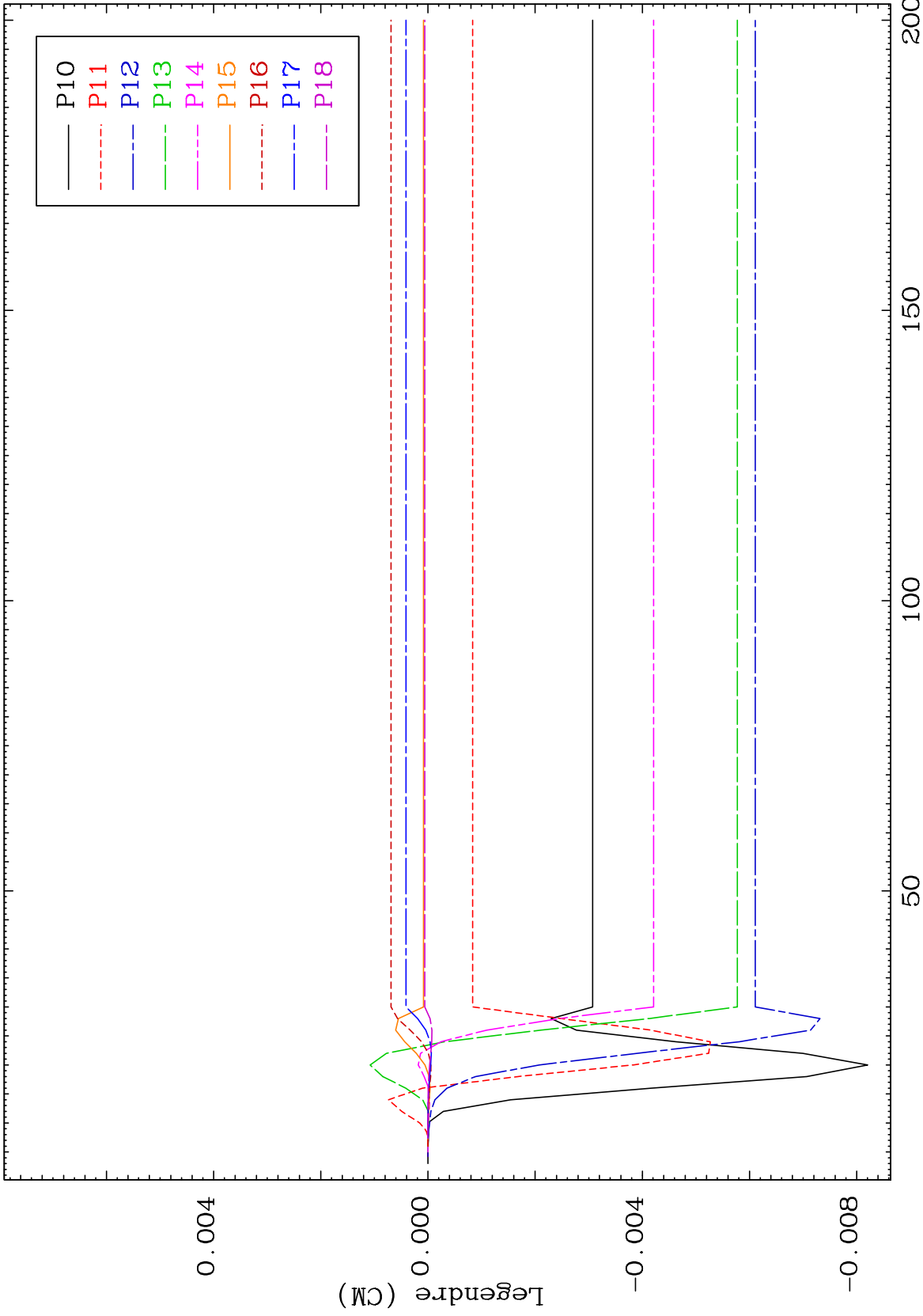
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98



86

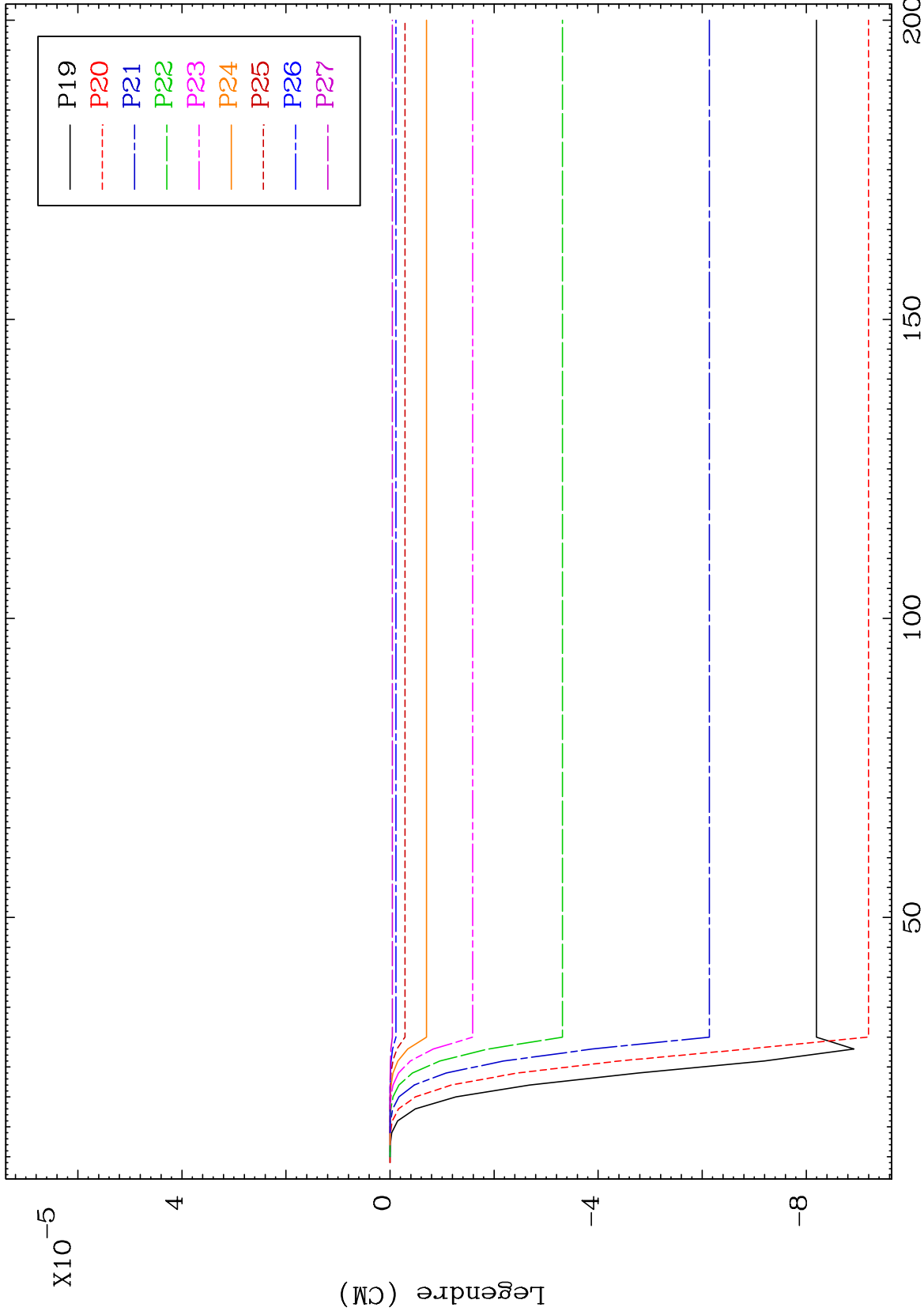
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98



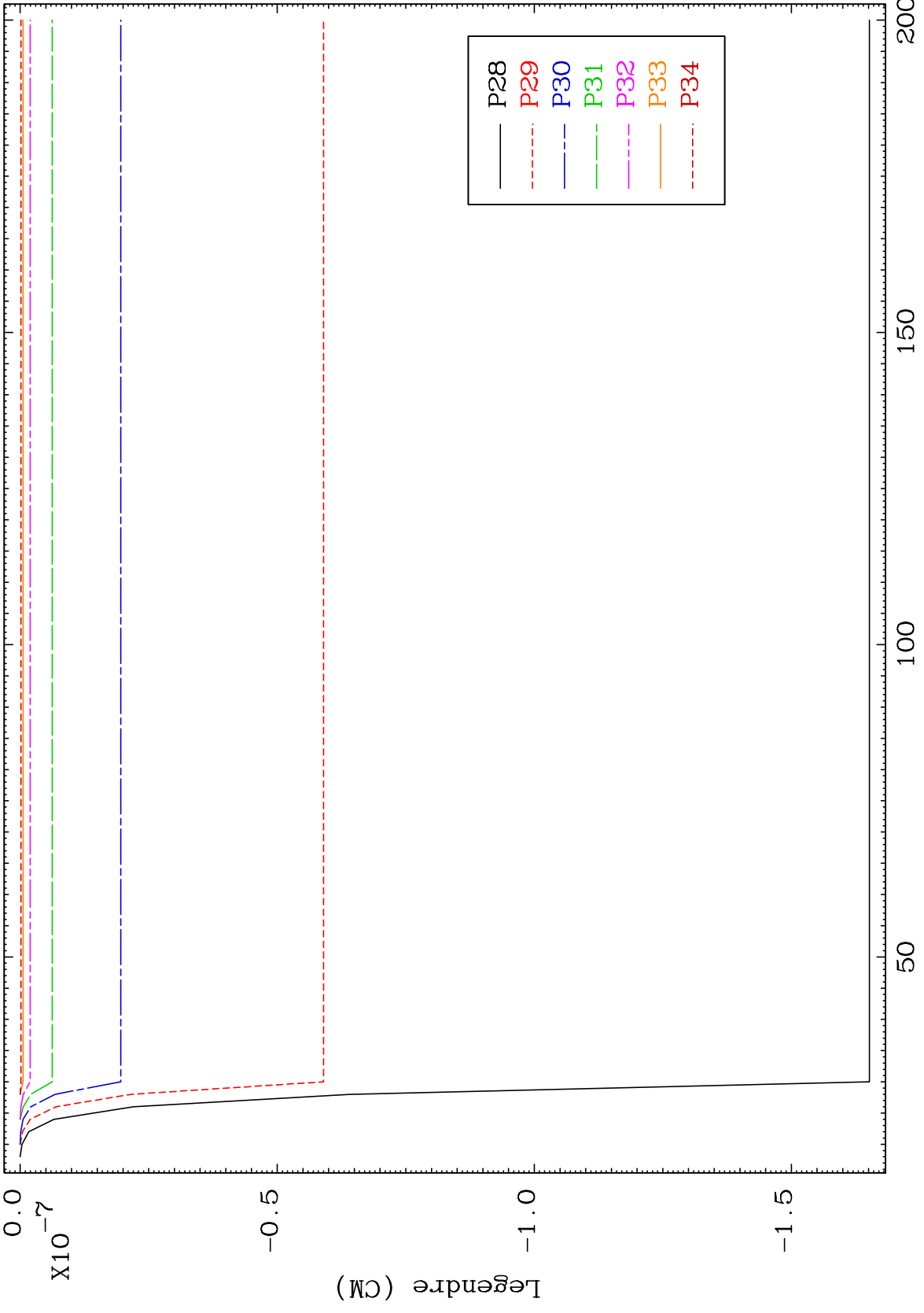
87

Incident Energy (MeV)

40-Zr-98

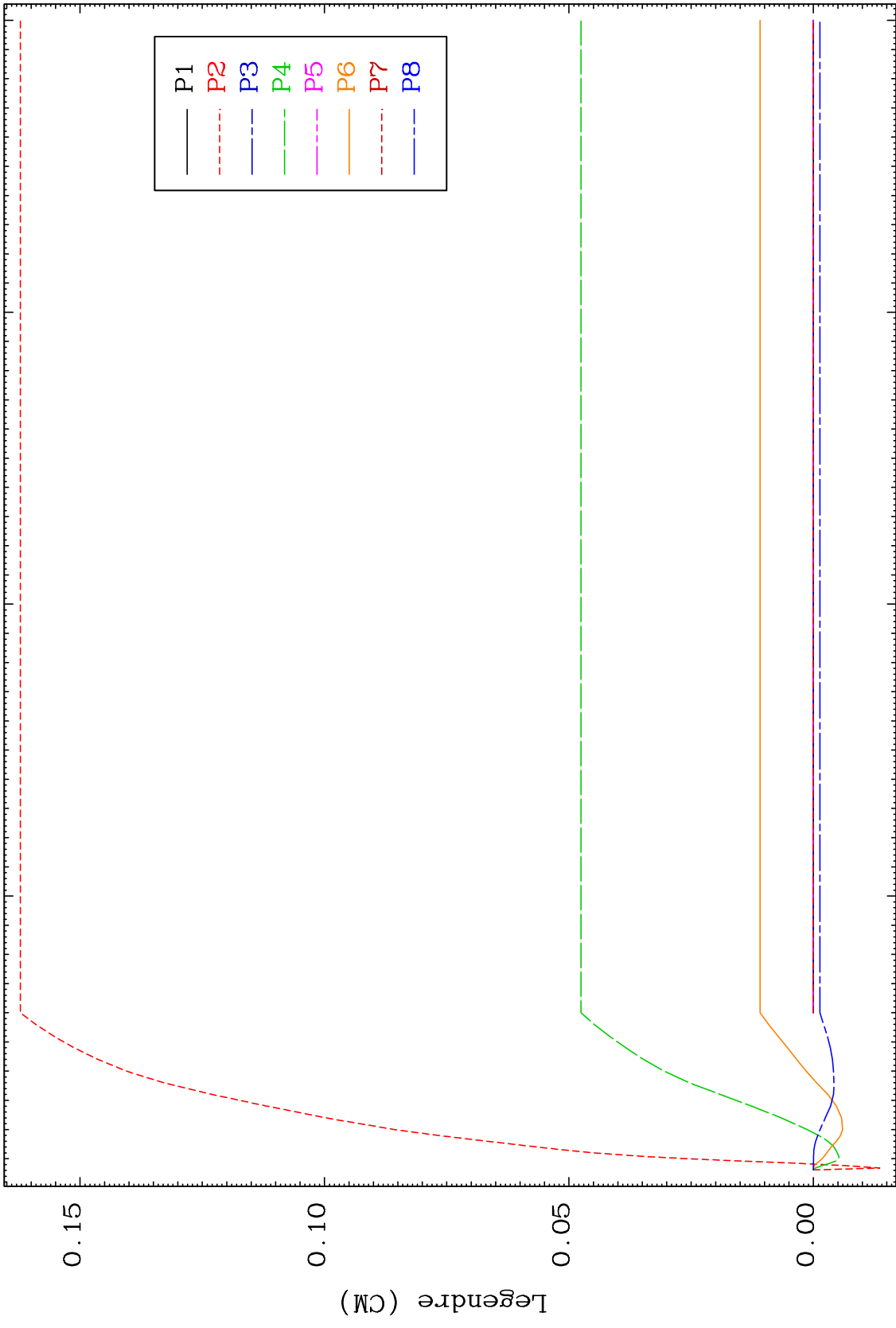


MAT 4049 MT= 68 (n,n') Level Legendre Coefficients 40-Zr-98



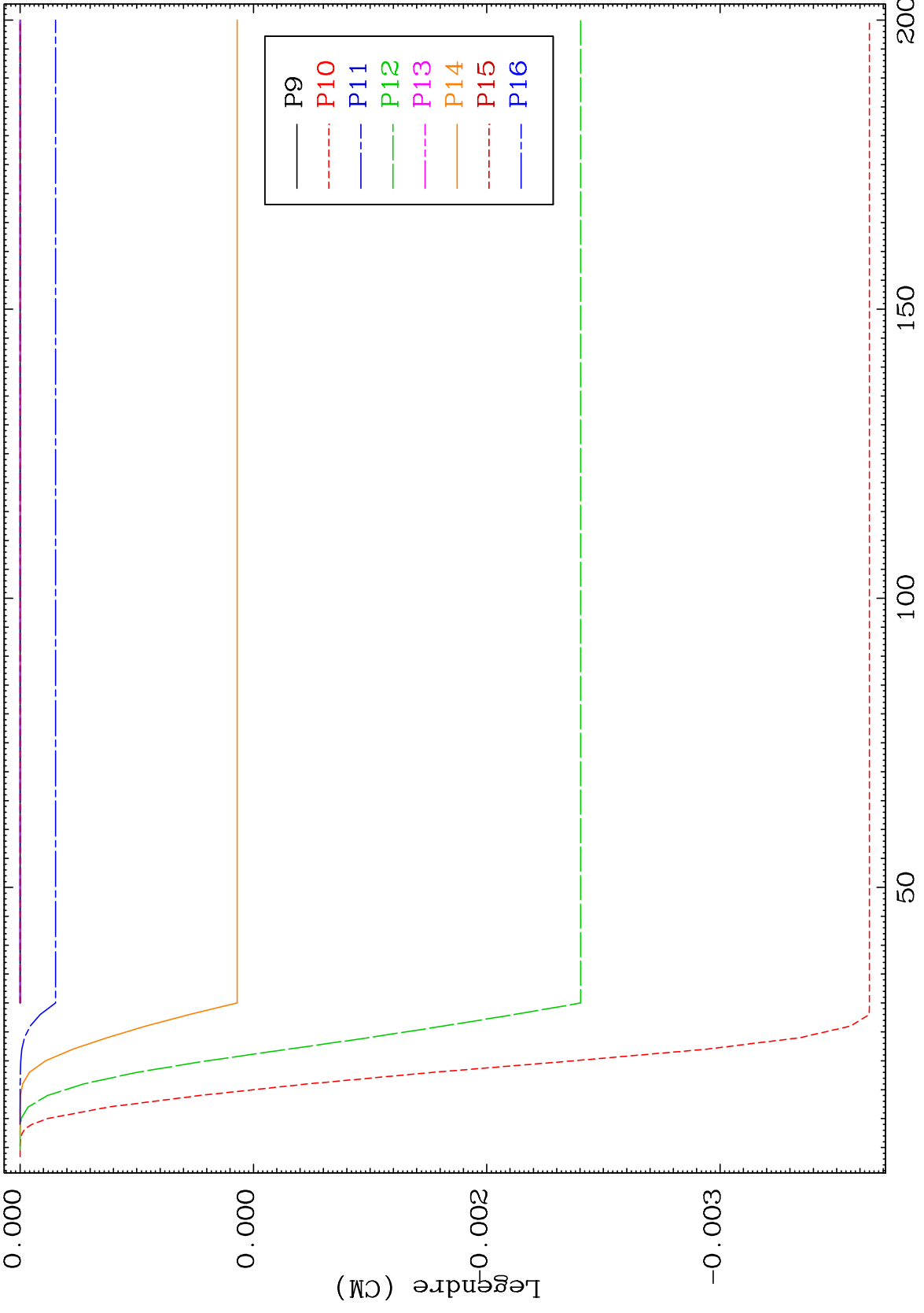
88 40-Zr-98

MAT 4049 MT= 69 (n,n') Level Legendre Coefficients 40-Zr-98



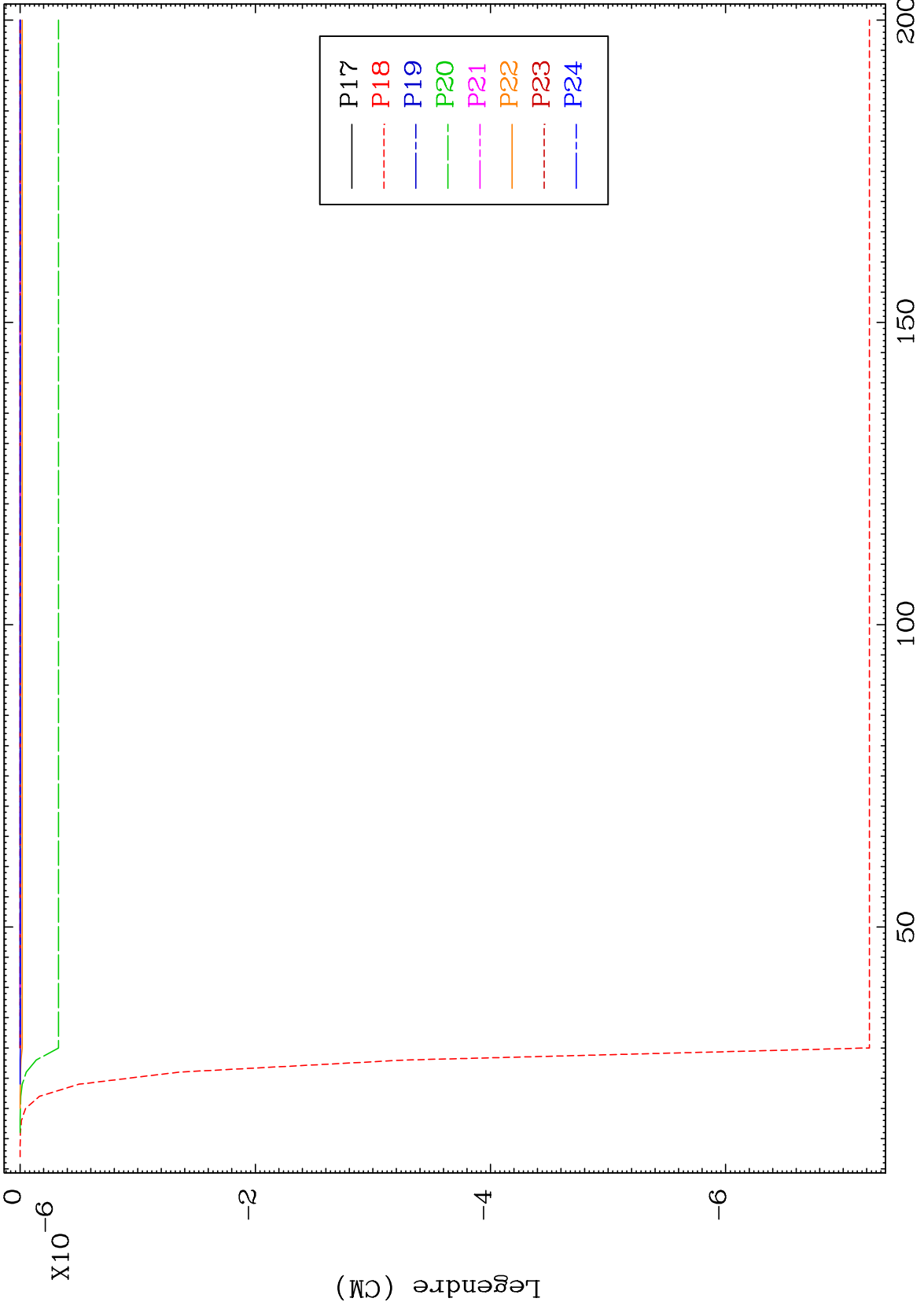
89 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 69 (n,n') Level Legendre Coefficients 40-Zr-98



90 50 100 150 200 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 69 (n,n') Level Legendre Coefficients 40-Zr-98

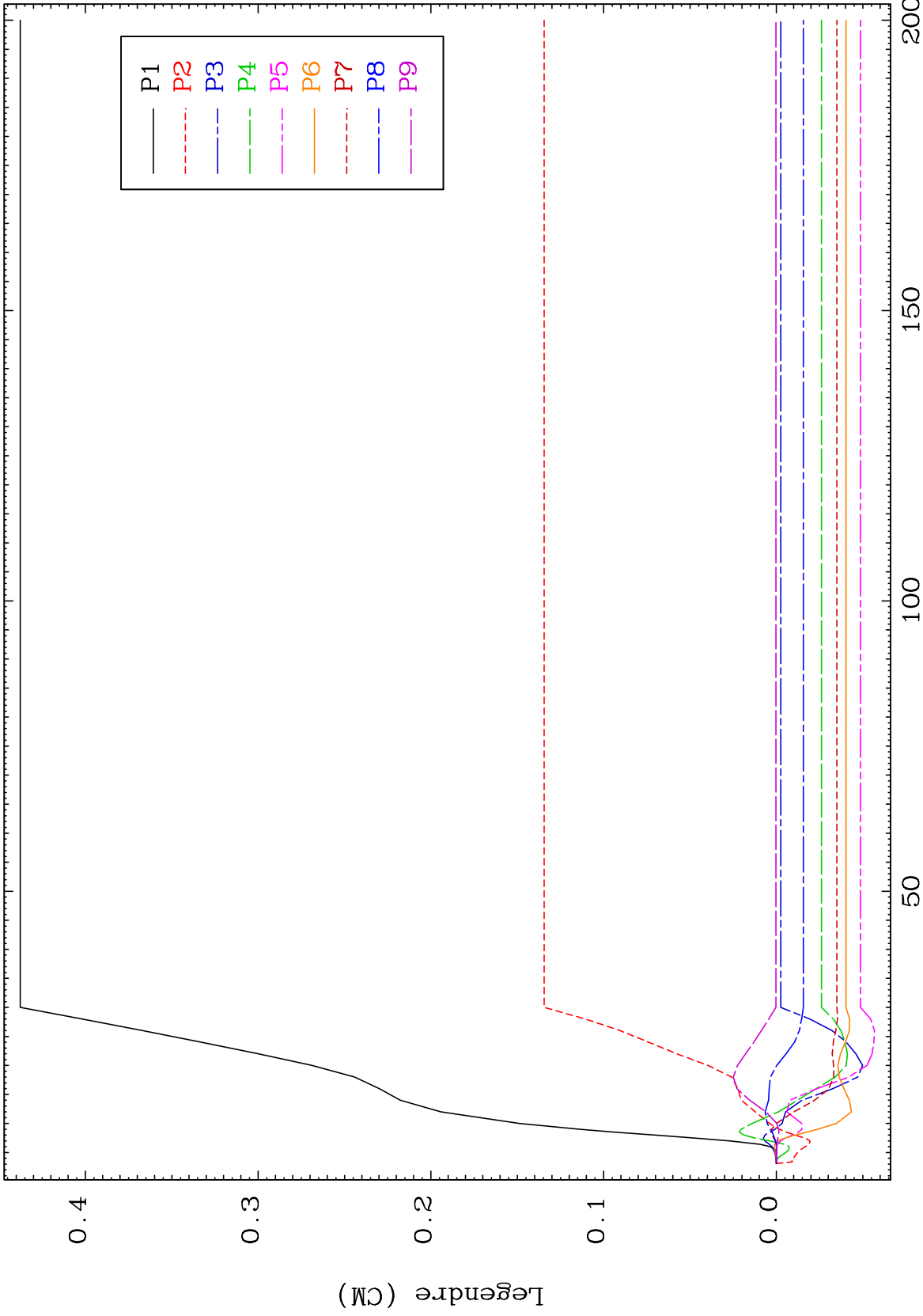


91 40-Zr-98

MAT 4049

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

40-Zr-98

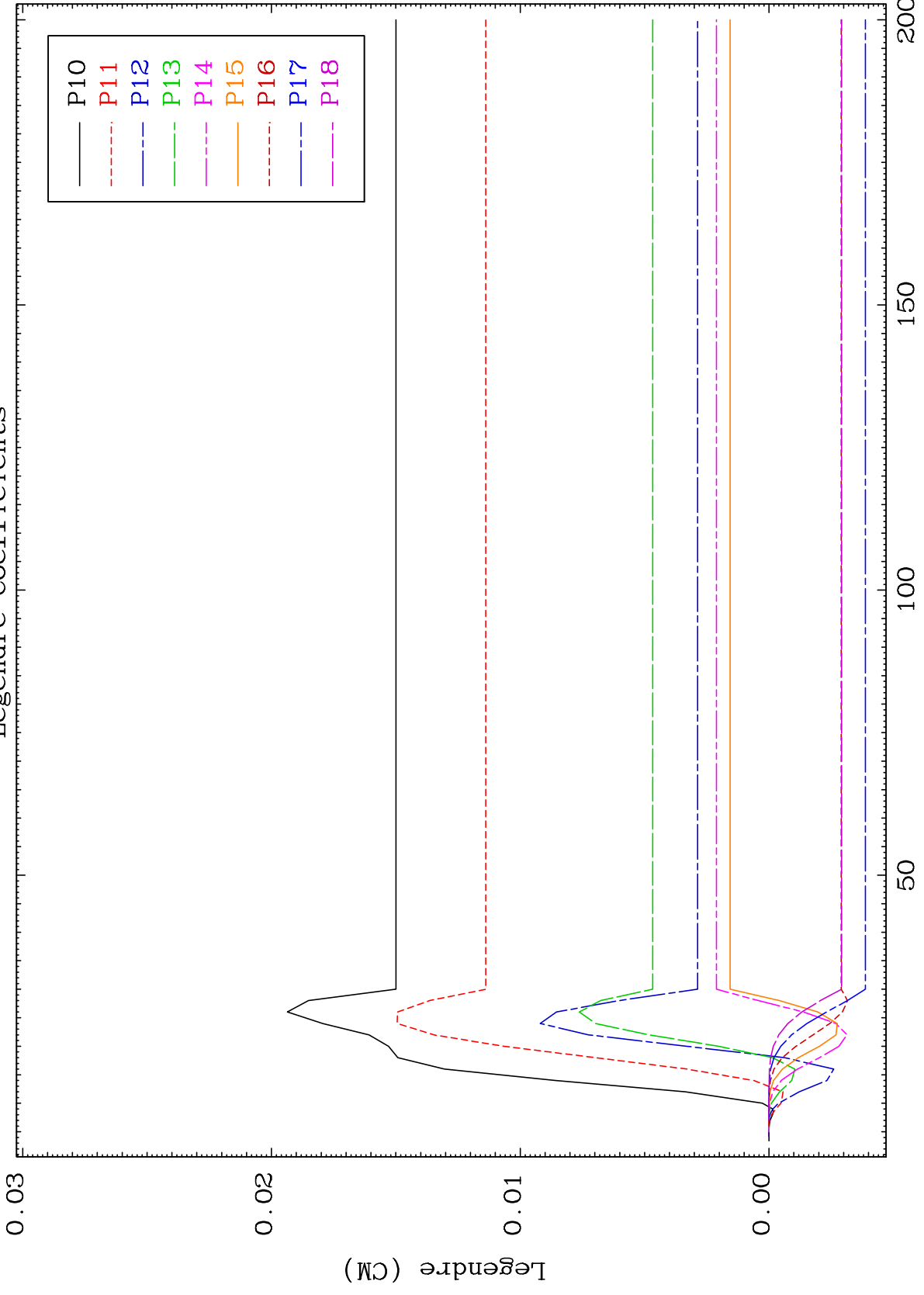


92

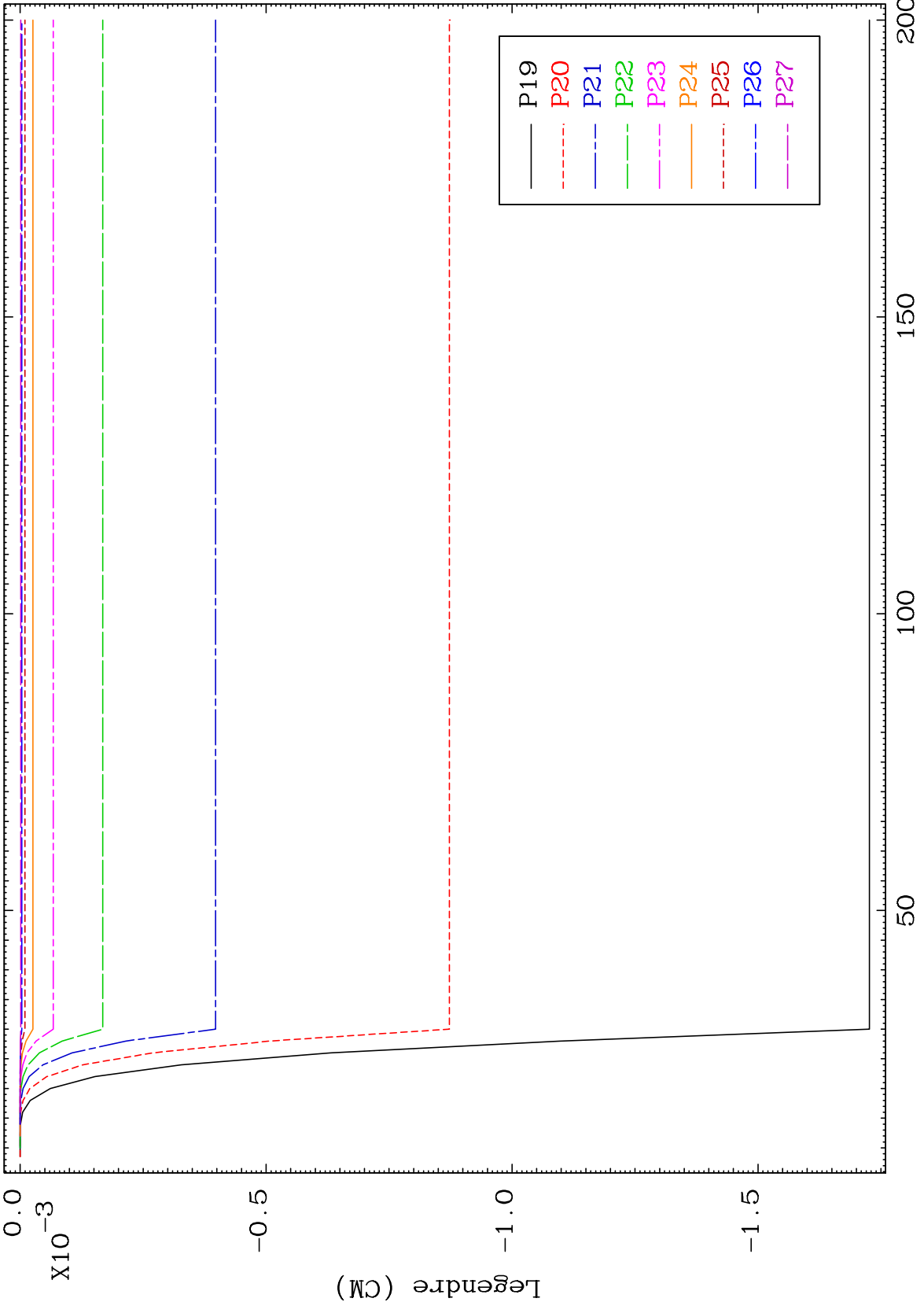
Incident Energy (MeV)

40-Zr-98

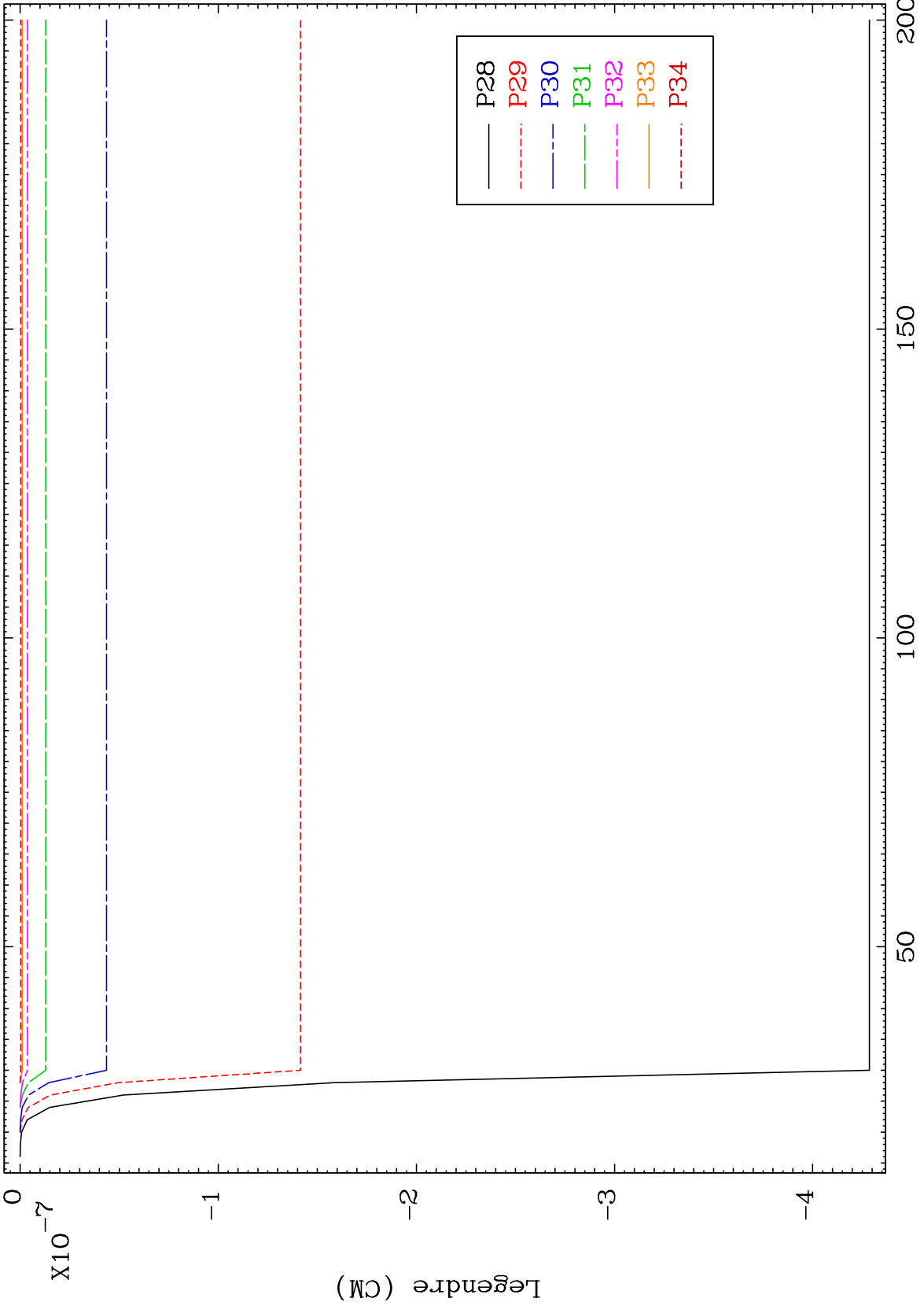
MAT 4049 MT= 70 (n,n') Level Legendre Coefficients 40-Zr-98



MAT 4049 MT= 70 (n,n') Level Legendre Coefficients 40-Zr-98



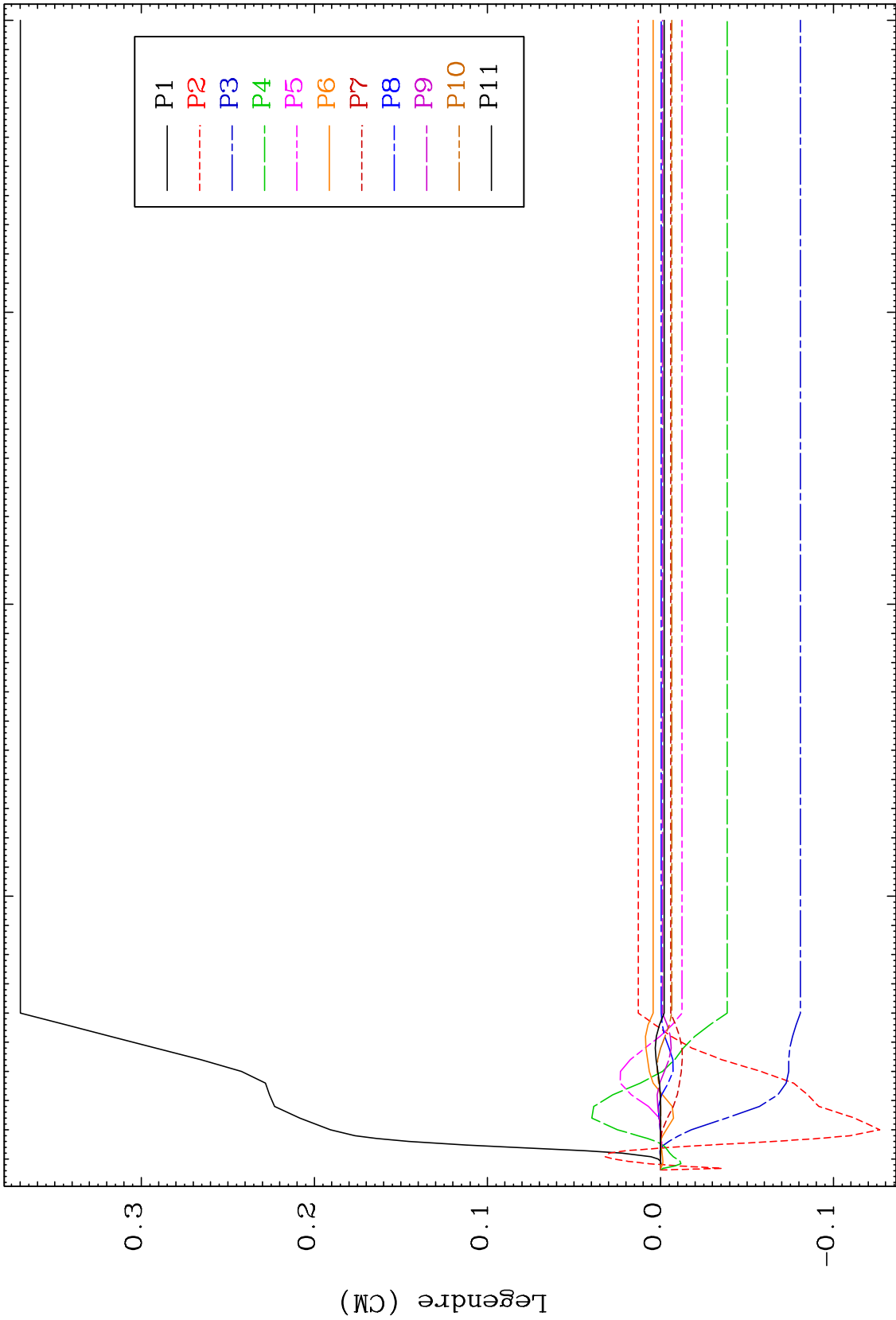
MAT 4049 MT= 70 (n,n') Level Legendre Coefficients 40-Zr-98



95 40-Zr-98

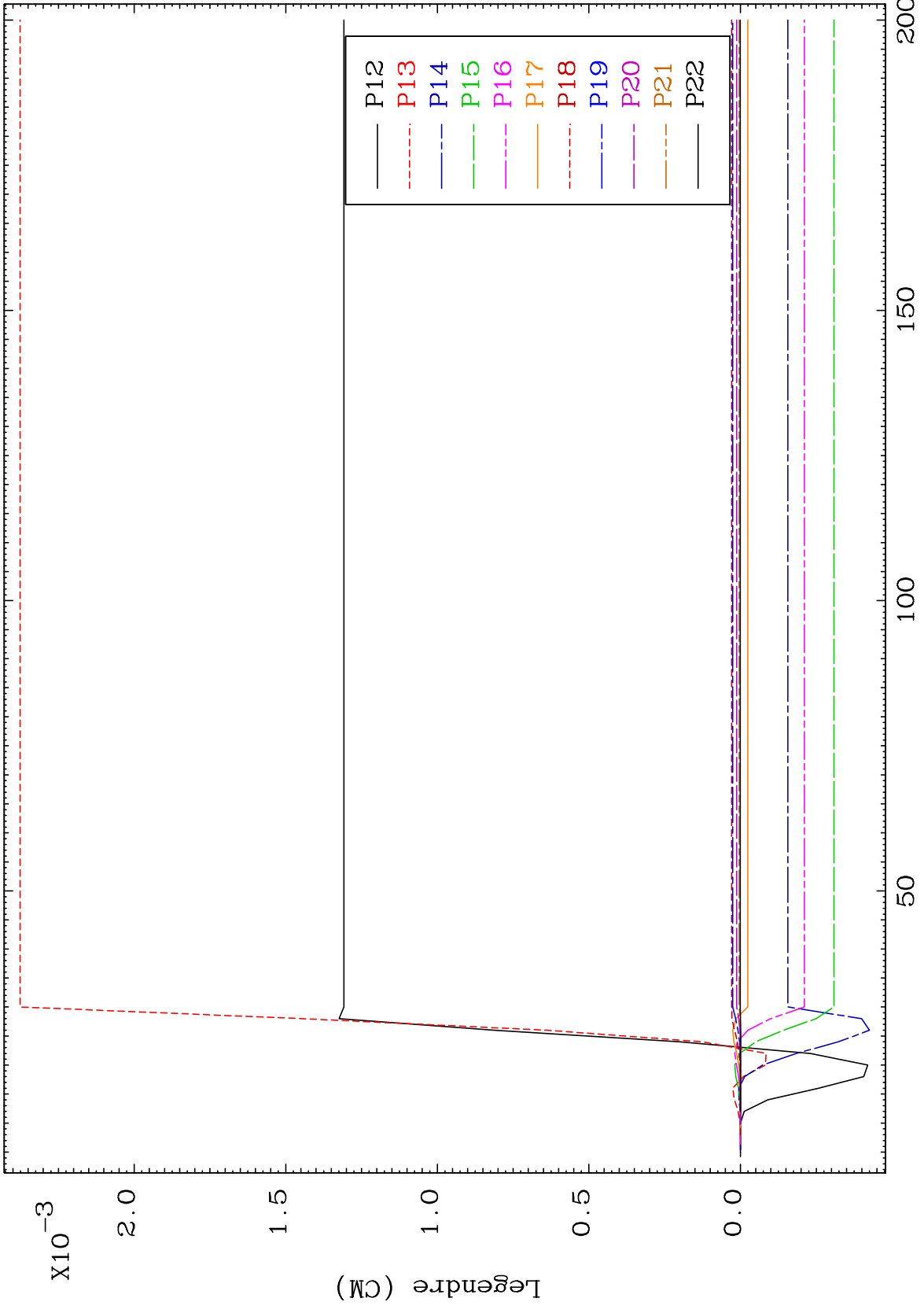


MAT 4049 MT= 71 (n,n') Level Legendre Coefficients 40-Zr-98



96 40-Zr-98

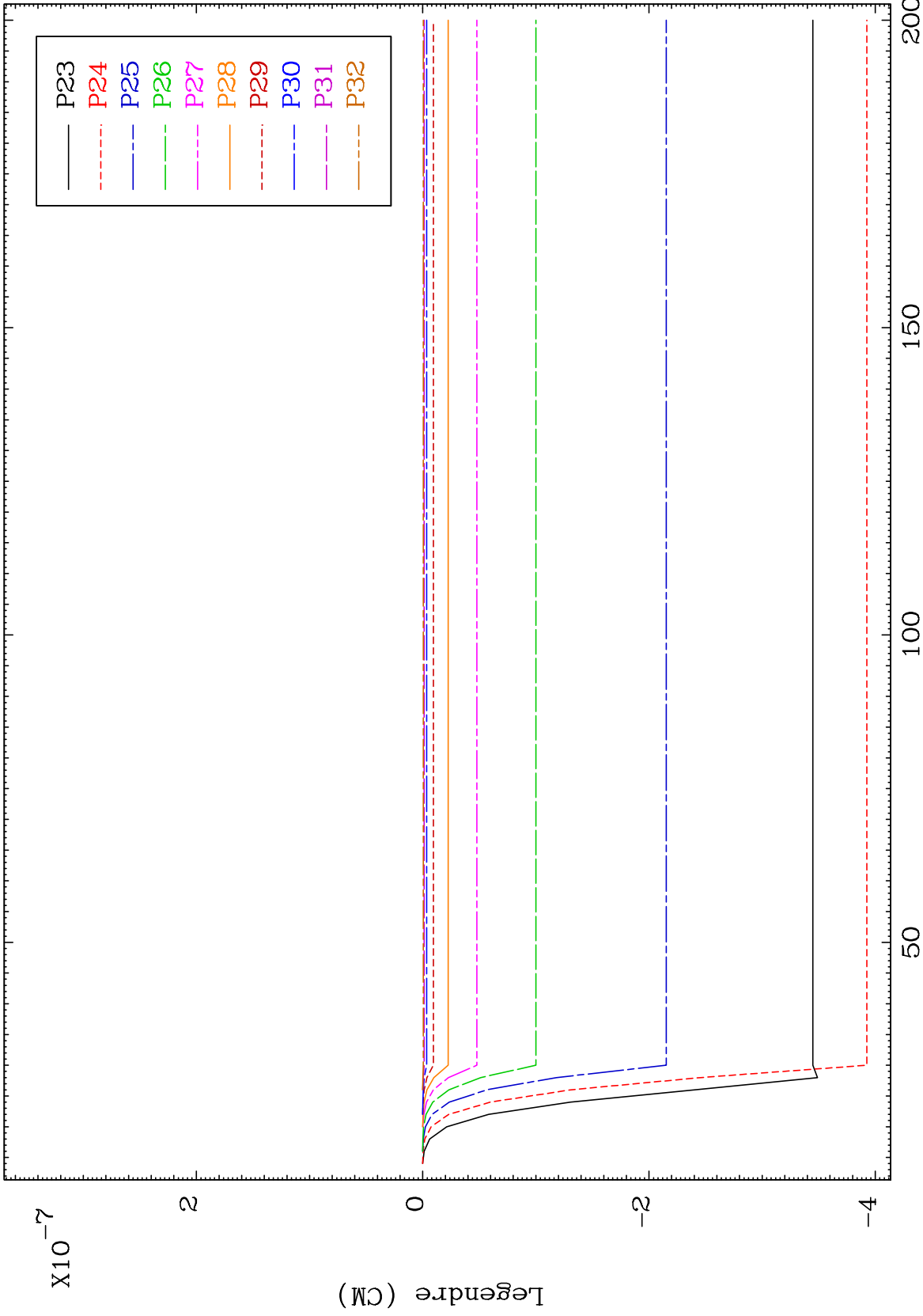
MAT 4049 MT= 71 (n,n') Level Legendre Coefficients 40-Zr-98



MAT 4049

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

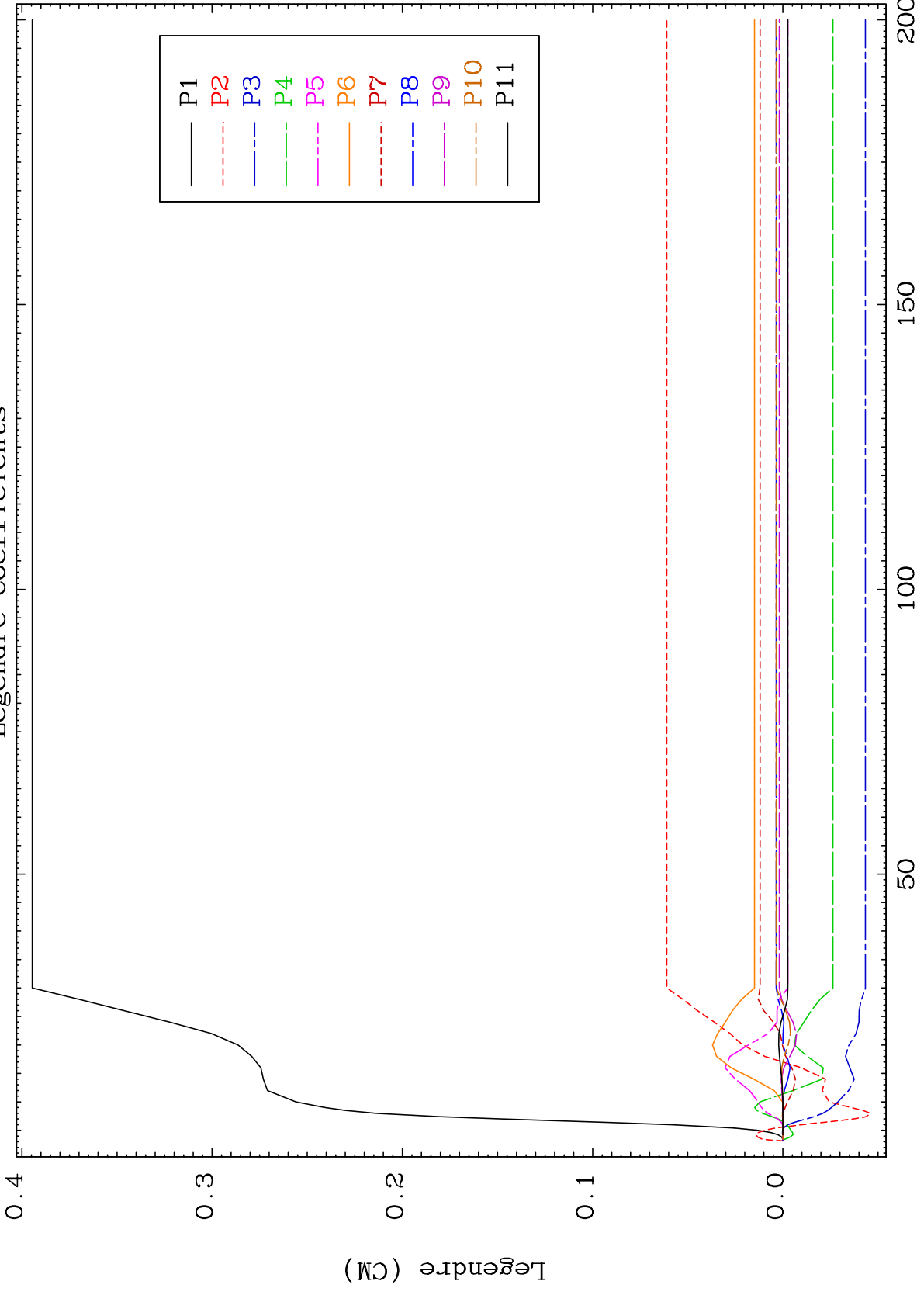
40-Zr-98



98

40-Zr-98

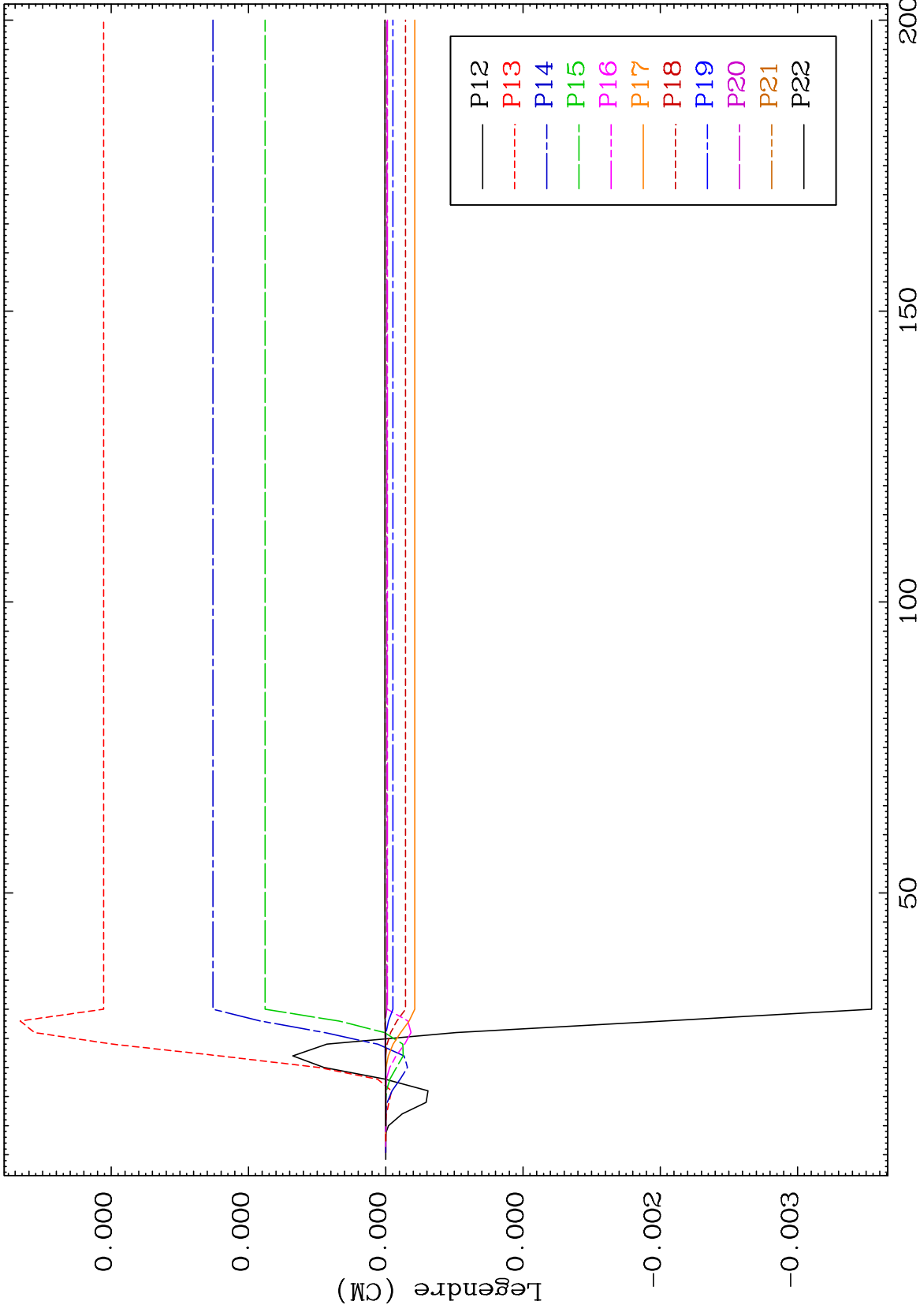
MAT 4049 MT= 72 (n,n') Level Legendre Coefficients 40-Zr-98



MAT 4049

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

40-Zr-98

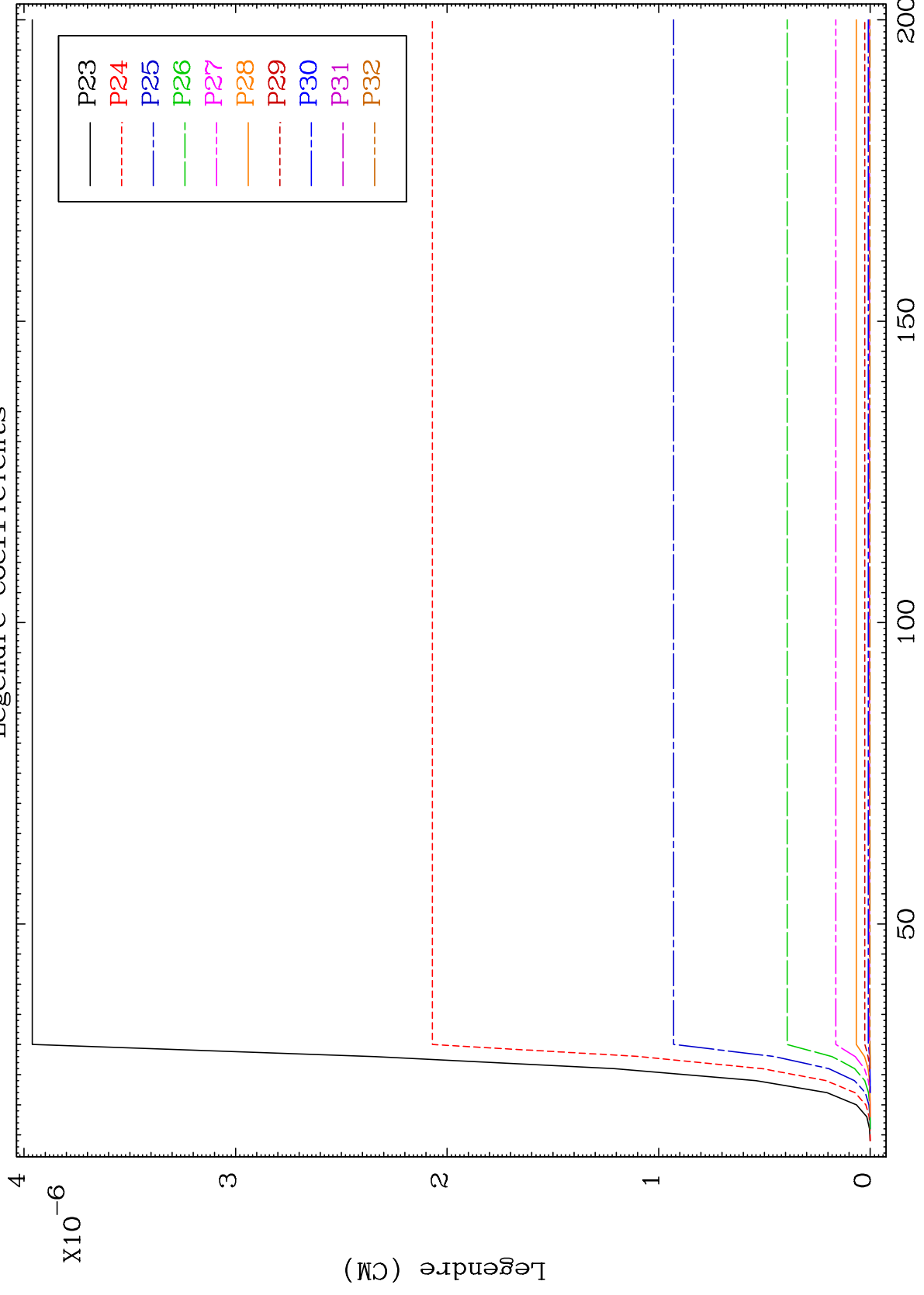


100

Incident Energy (MeV)

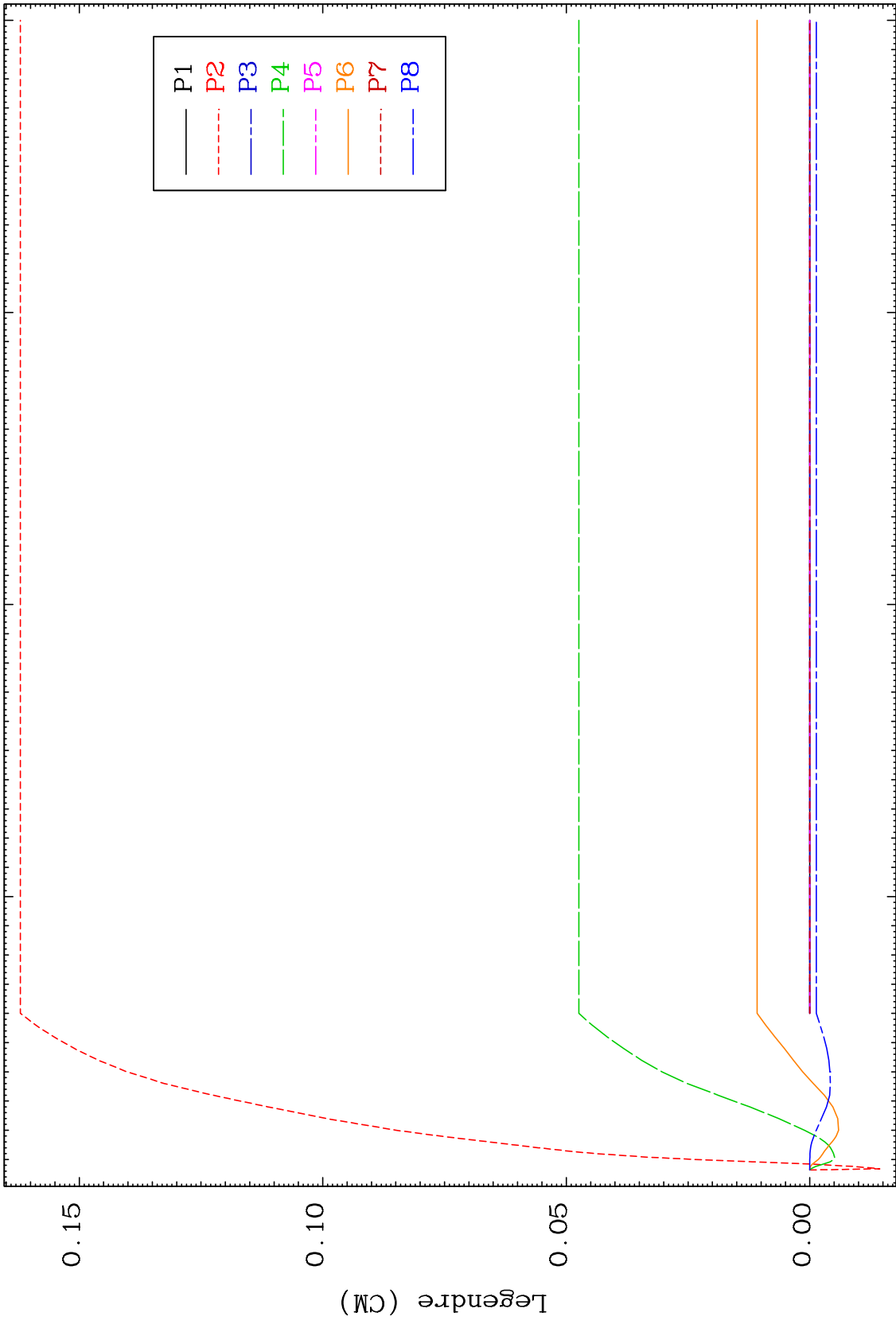
40-Zr-98

MAT 4049 MT= 72 (n,n') Level Legendre Coefficients 40-Zr-98



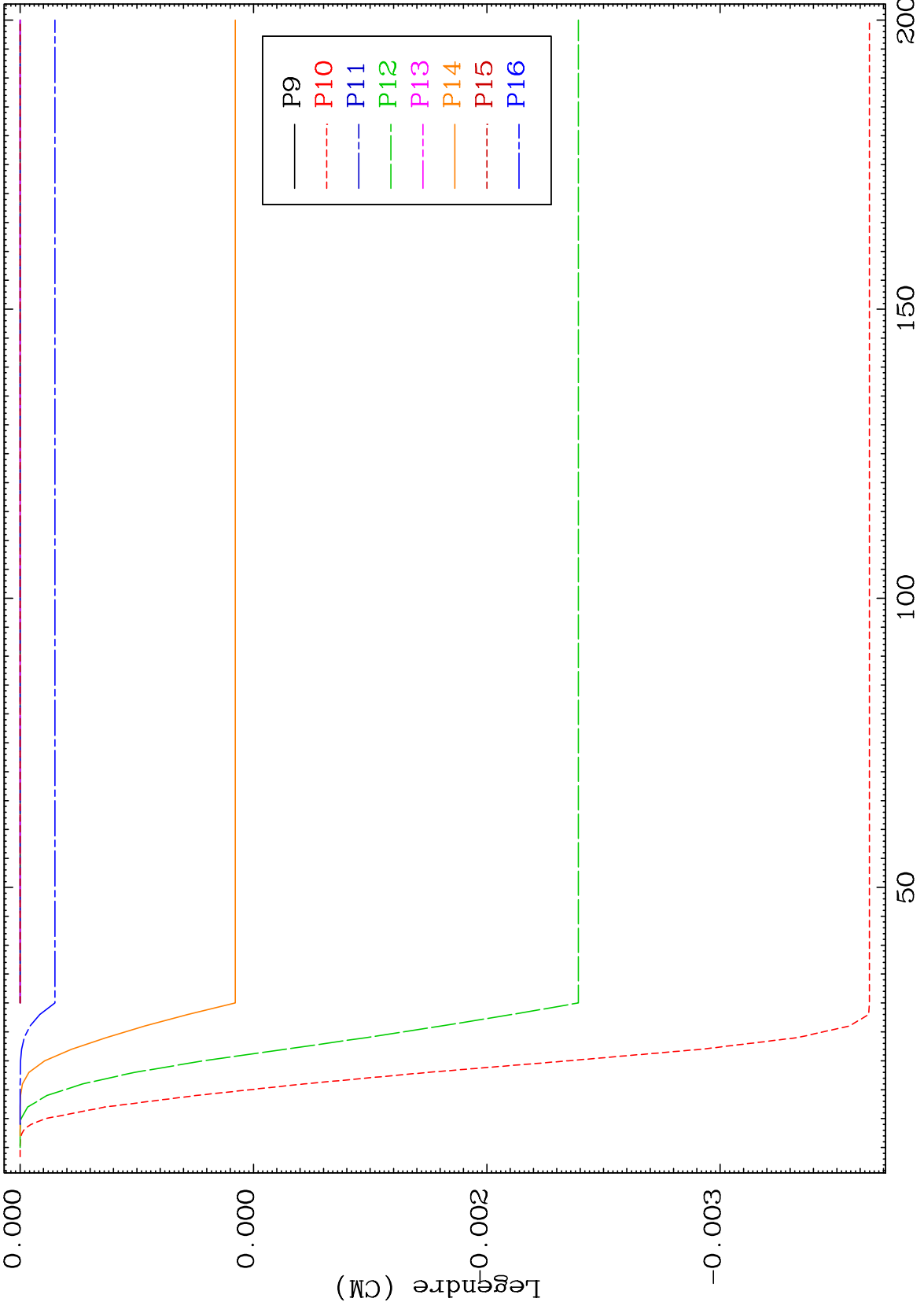
101 50 100 150 200 Incident Energy (MeV) 40-Zr-98

MAT 4049 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-98



102 Incident Energy (MeV) 40-Zr-98

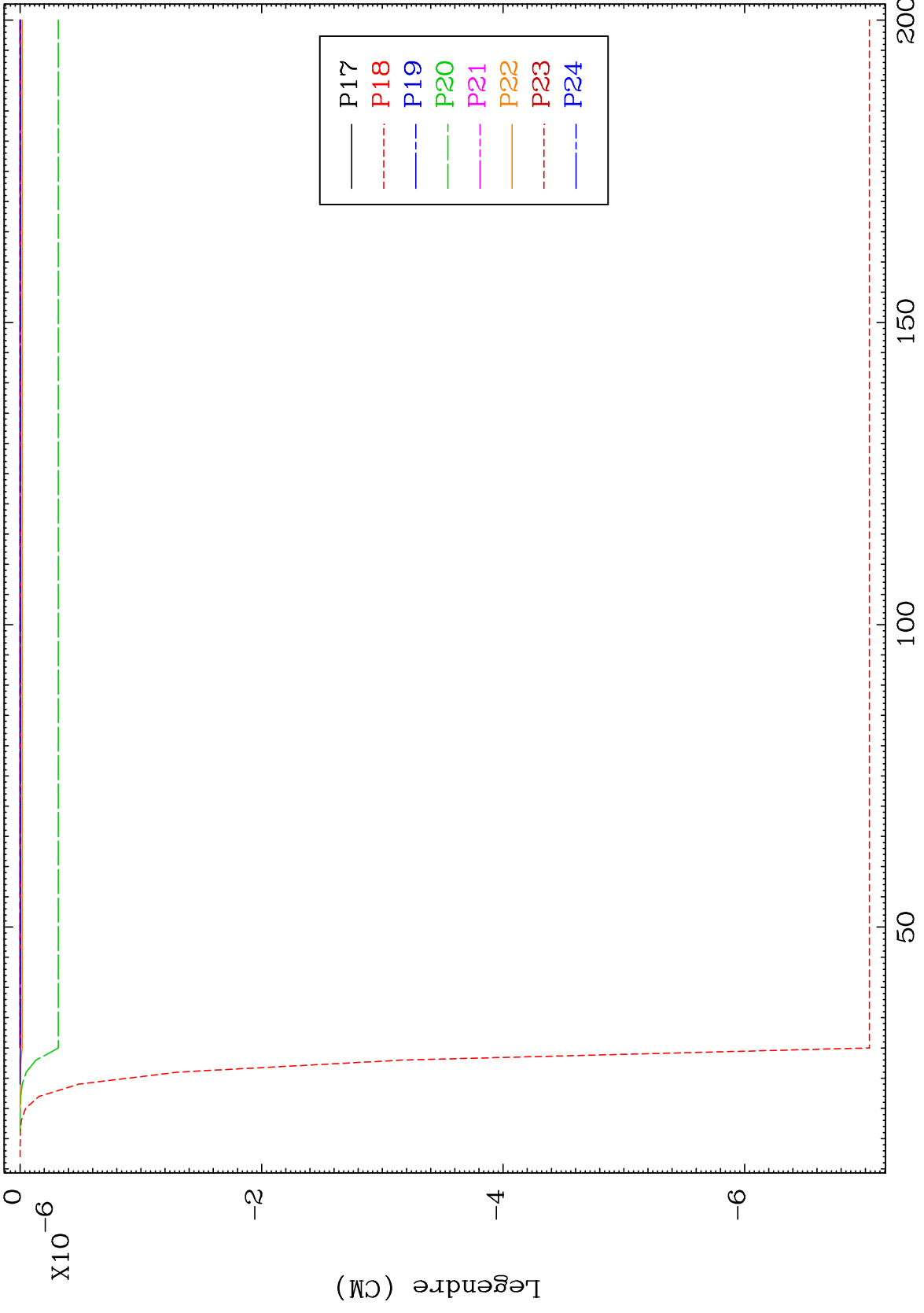
MAT 4049 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-98



103 40-Zr-98



MAT 4049 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-98

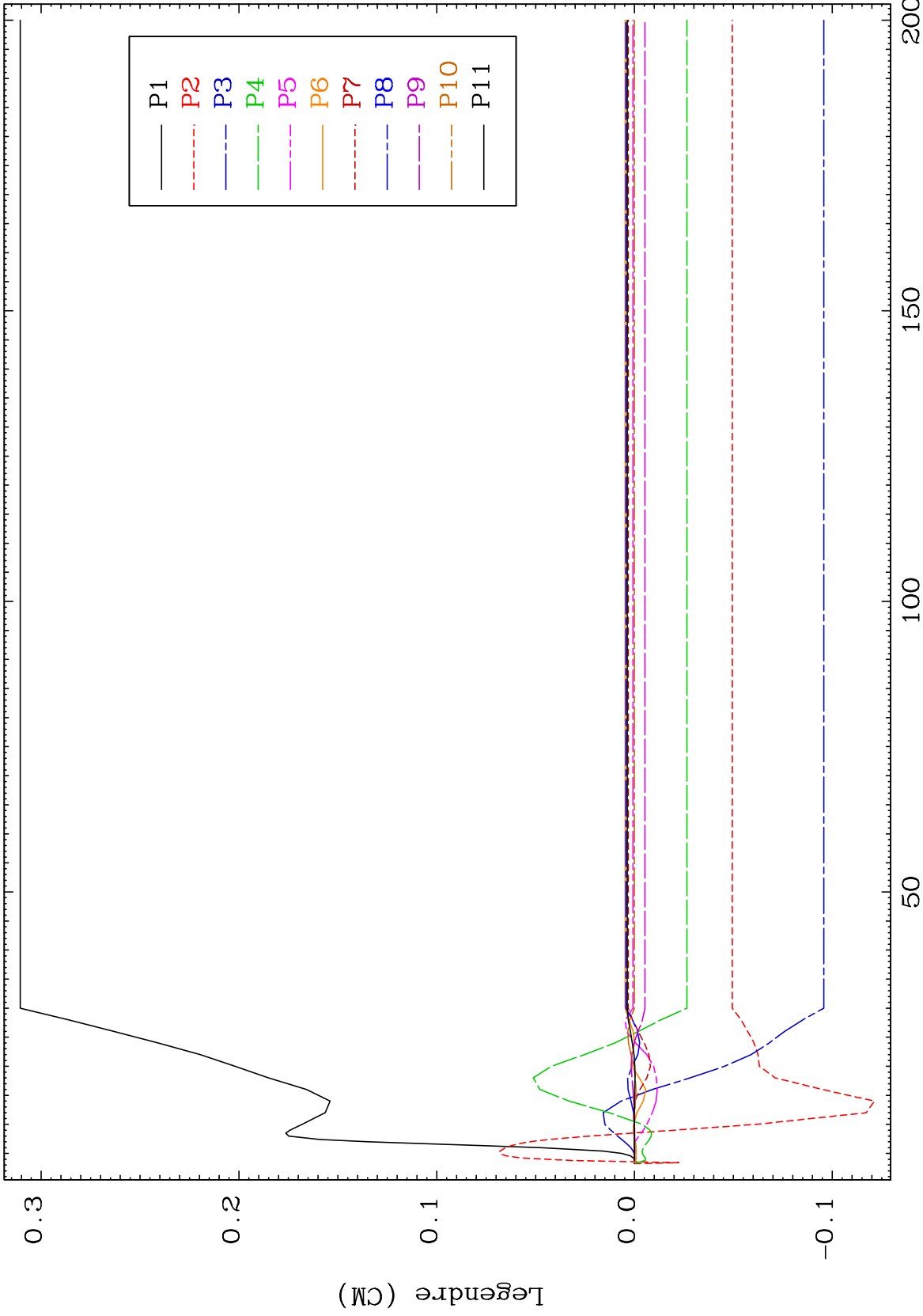


104 40-Zr-98

MAT 4049

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

40-Zr-98



40-Zr-98

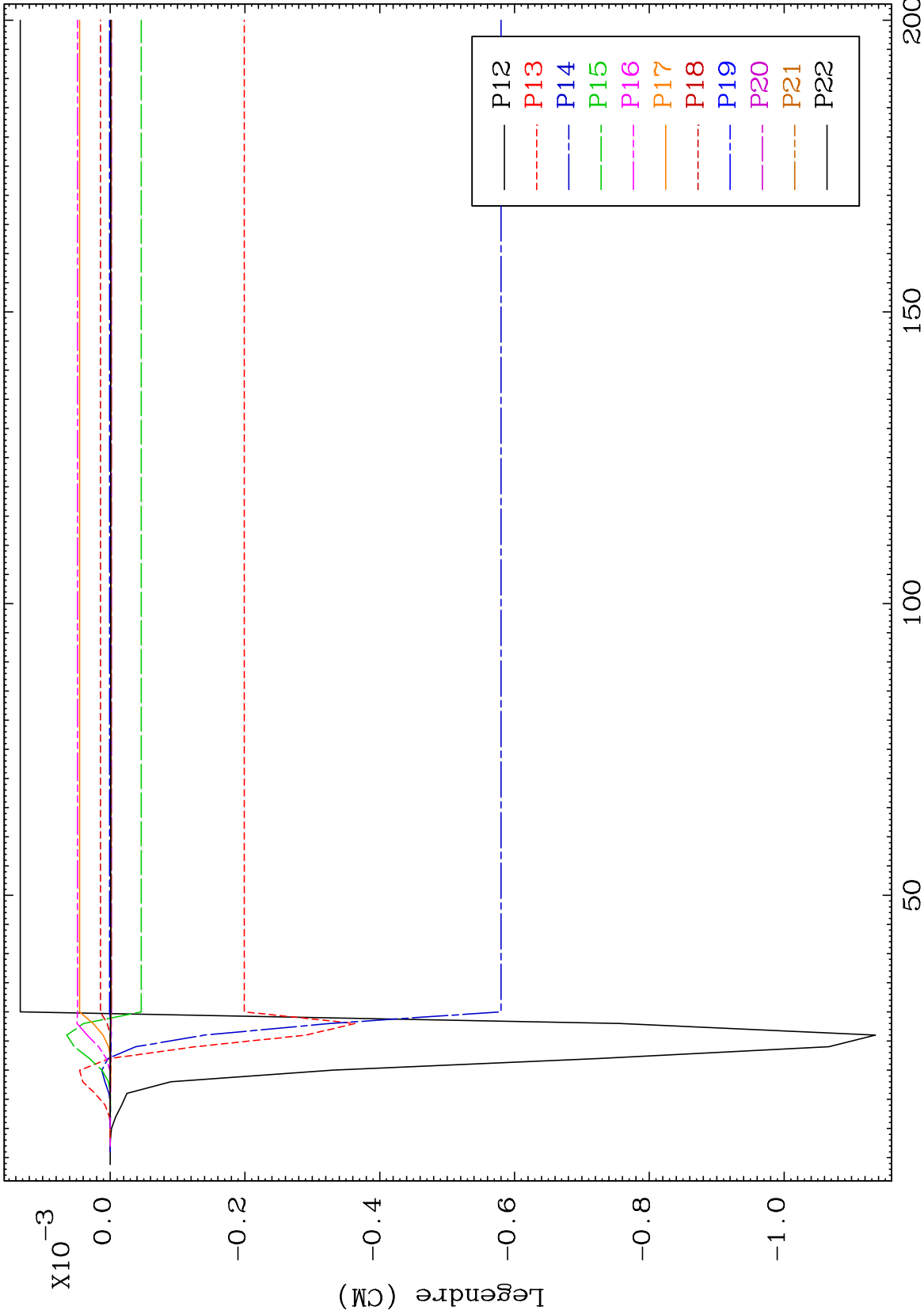
Incident Energy (MeV)

105

MAT 4049

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

40-Zr-98

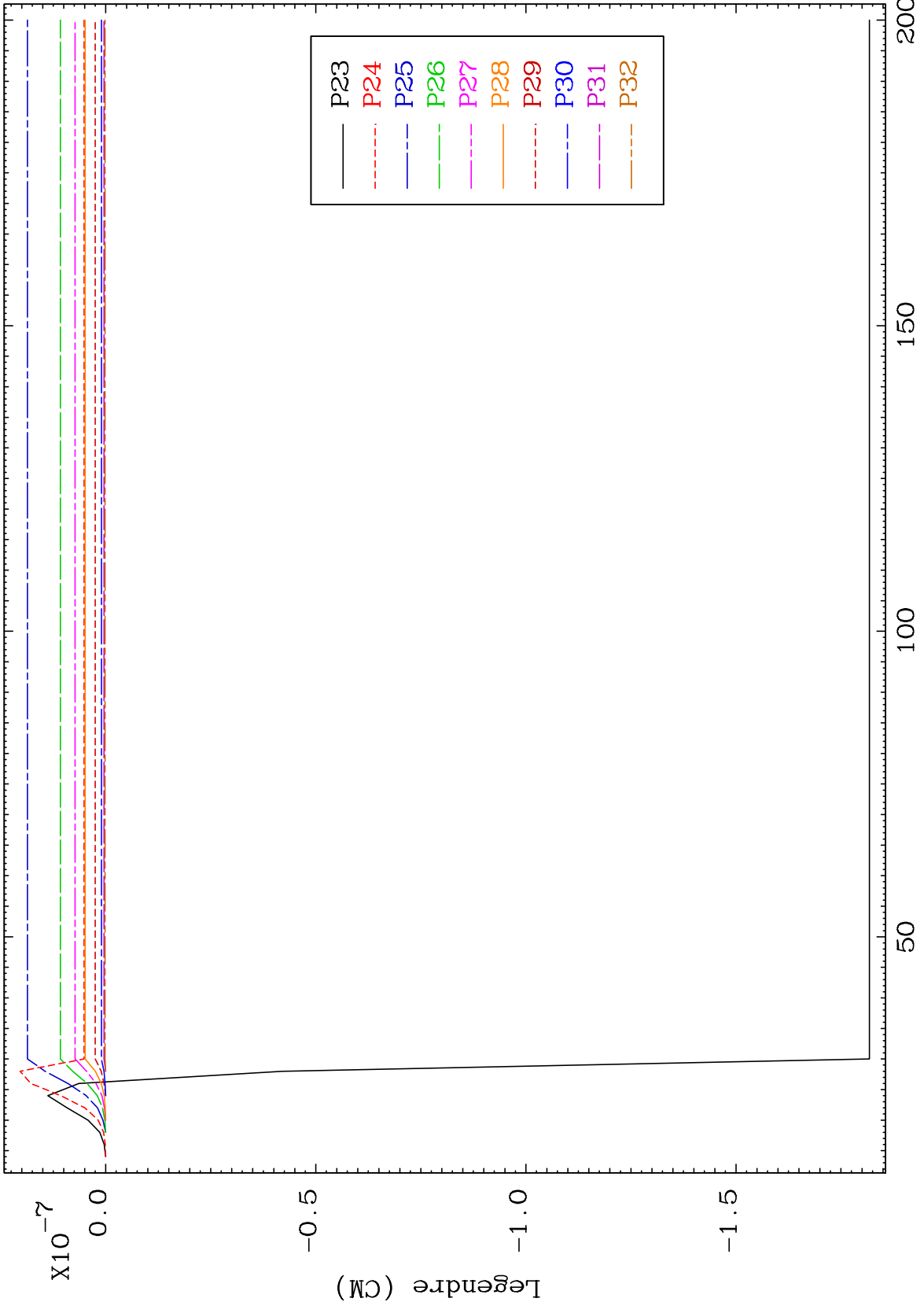


106

Incident Energy (MeV)

40-Zr-98

MAT 4049 MT= 74 (n,n') Level Legendre Coefficients 40-Zr-98

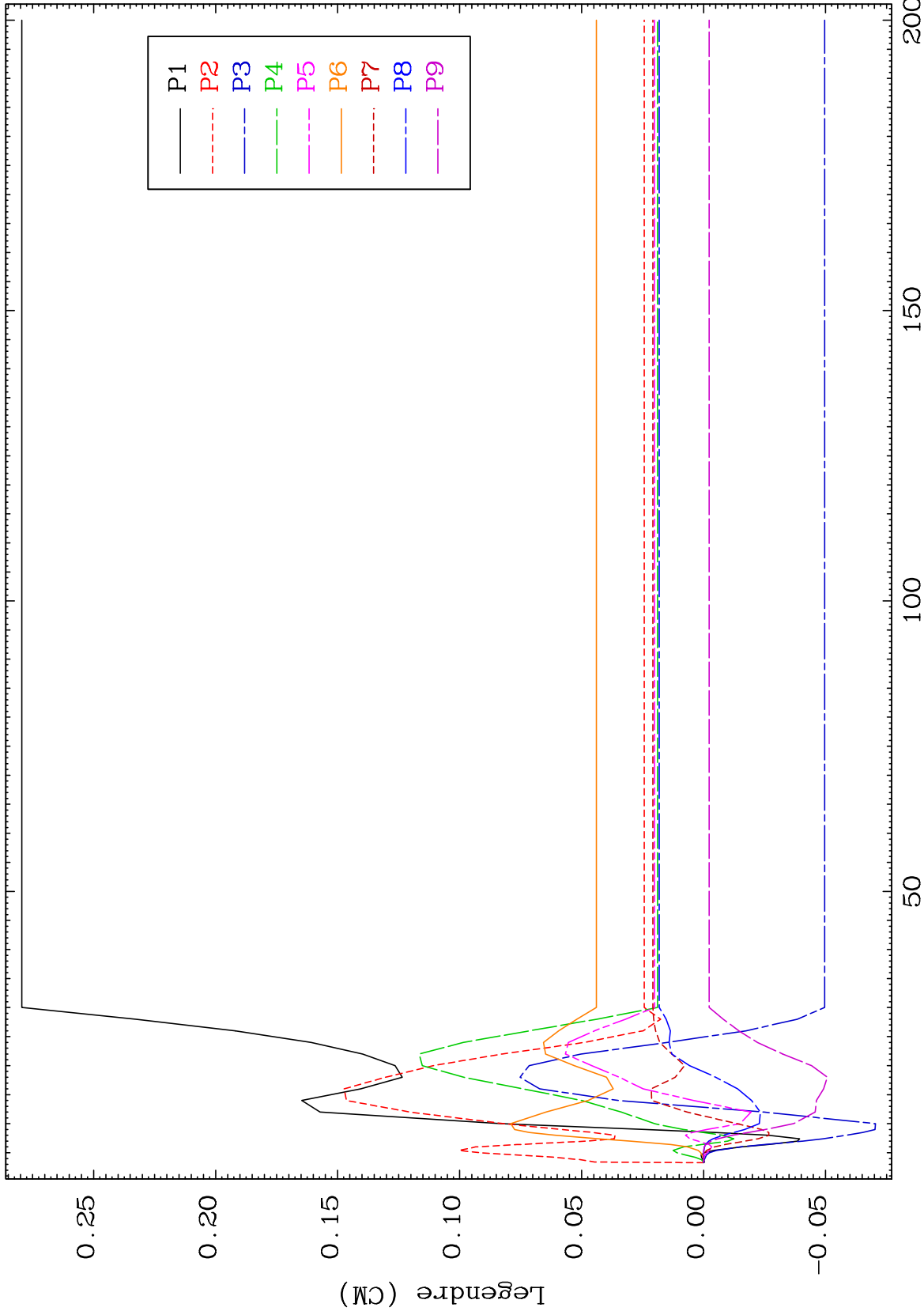


107 40-Zr-98

MAT 4049

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

40-Zr-98



108

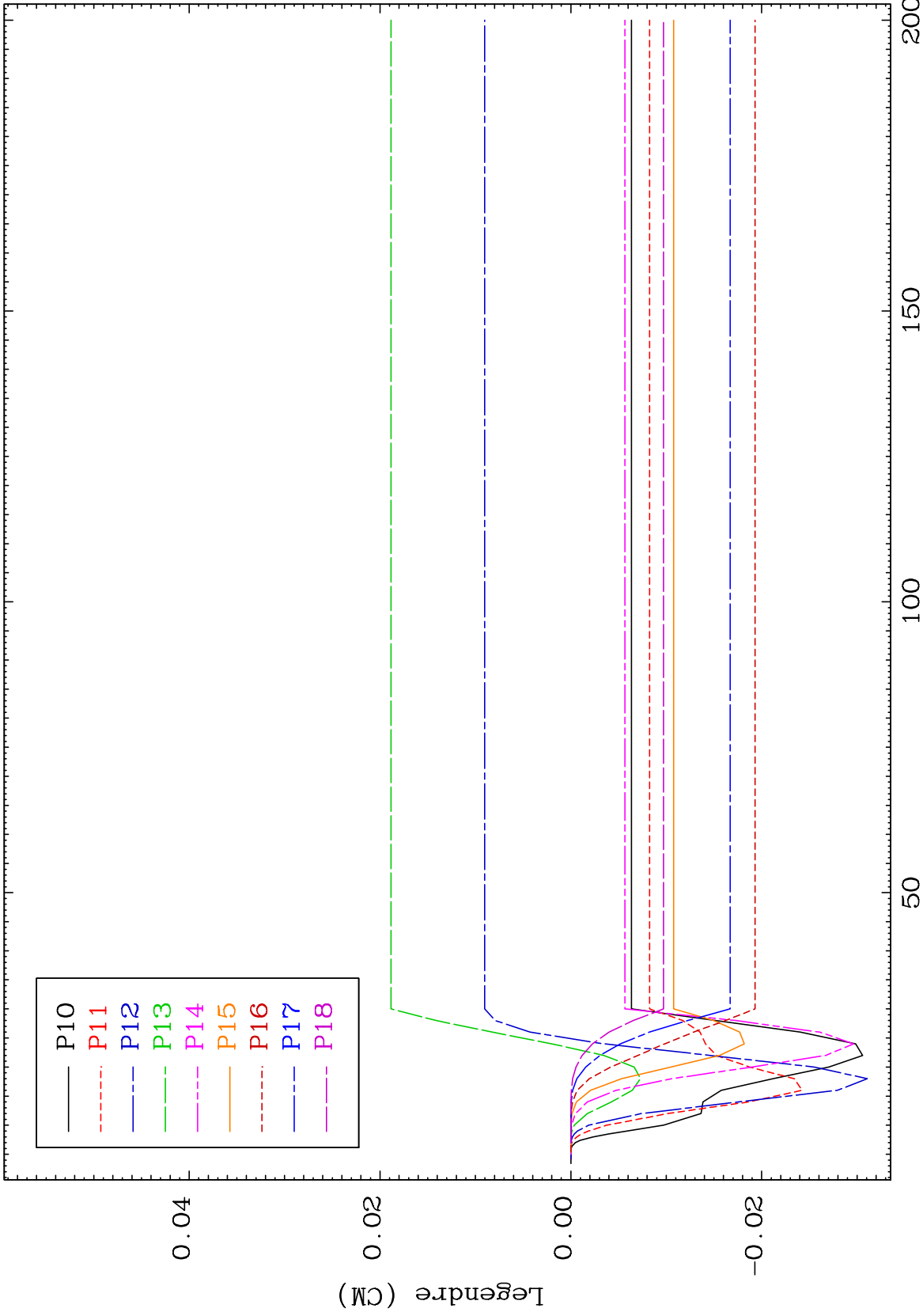
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98

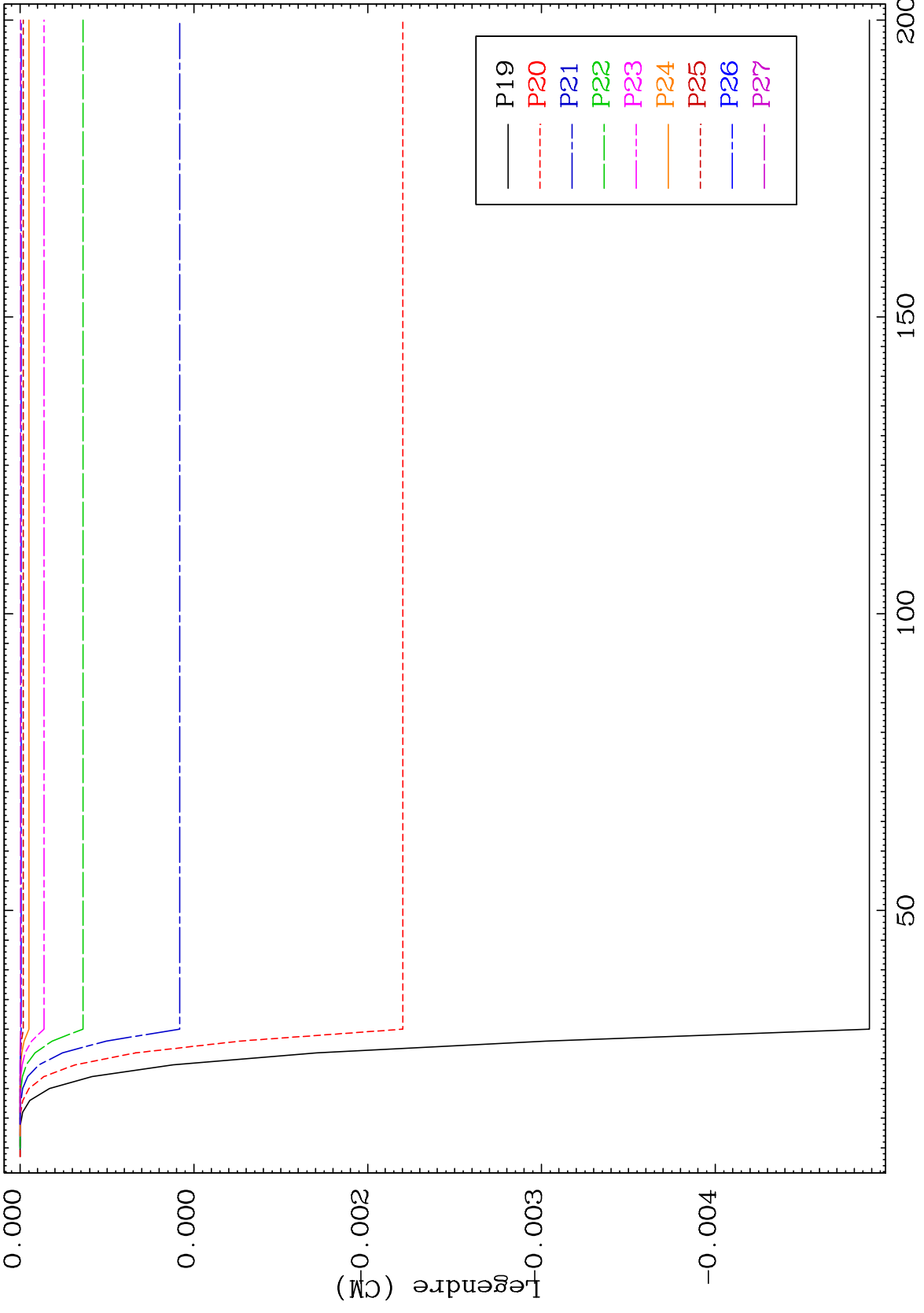


109

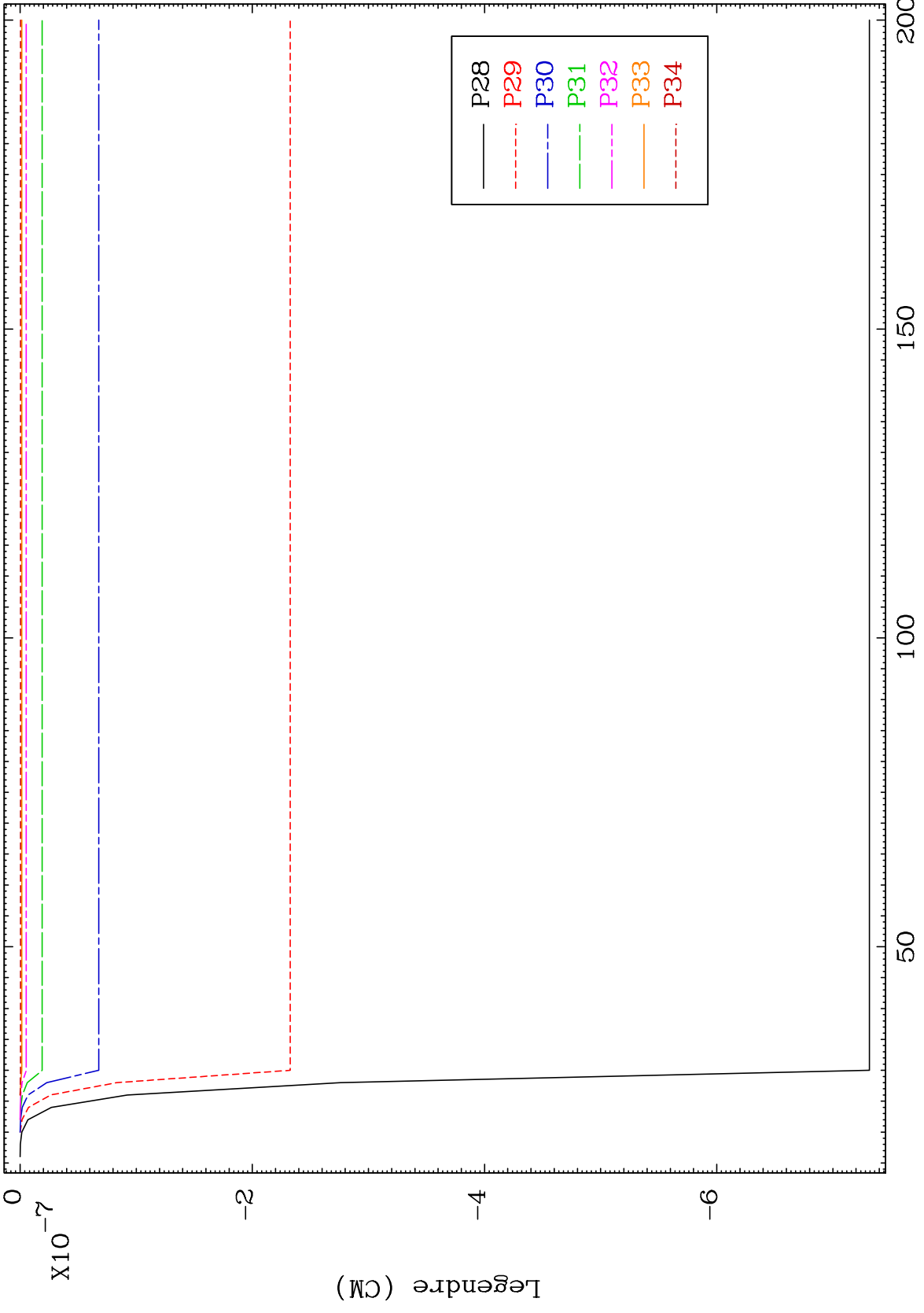
Incident Energy (MeV)

40-Zr-98

MAT 4049 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-98



MAT 4049 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-98



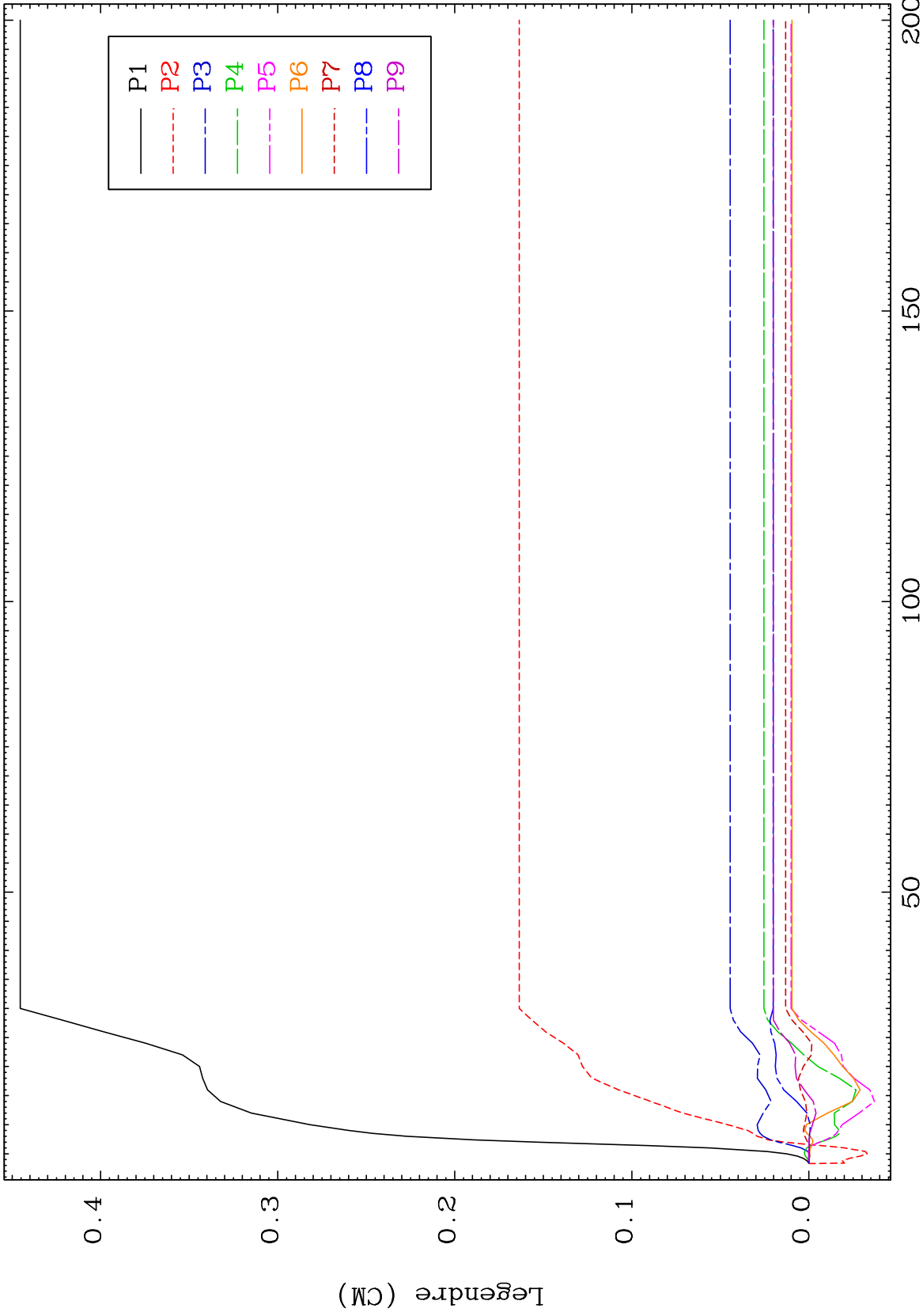
111 40-Zr-98



MAT 4049

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

40-Zr-98



112

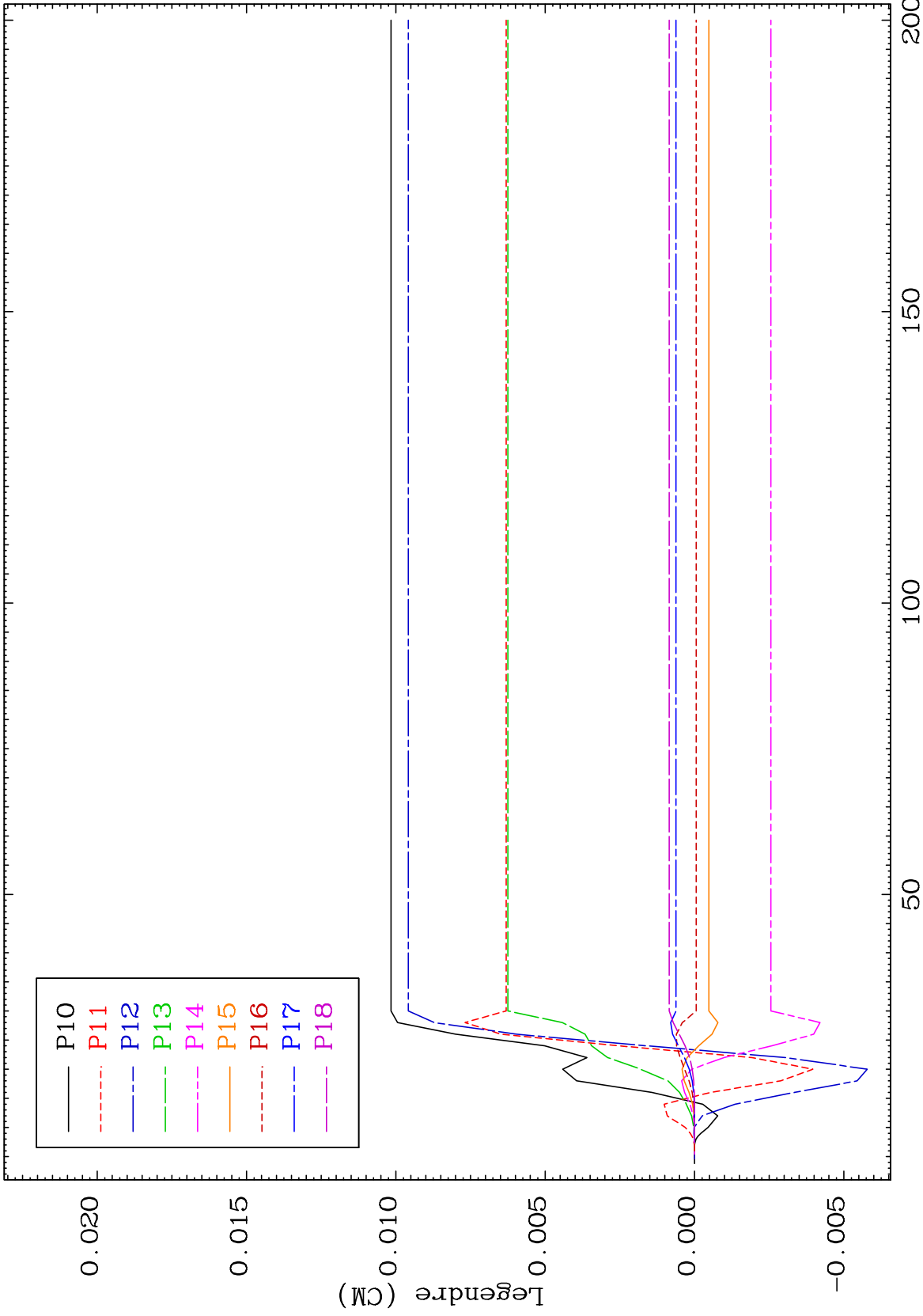
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98



113

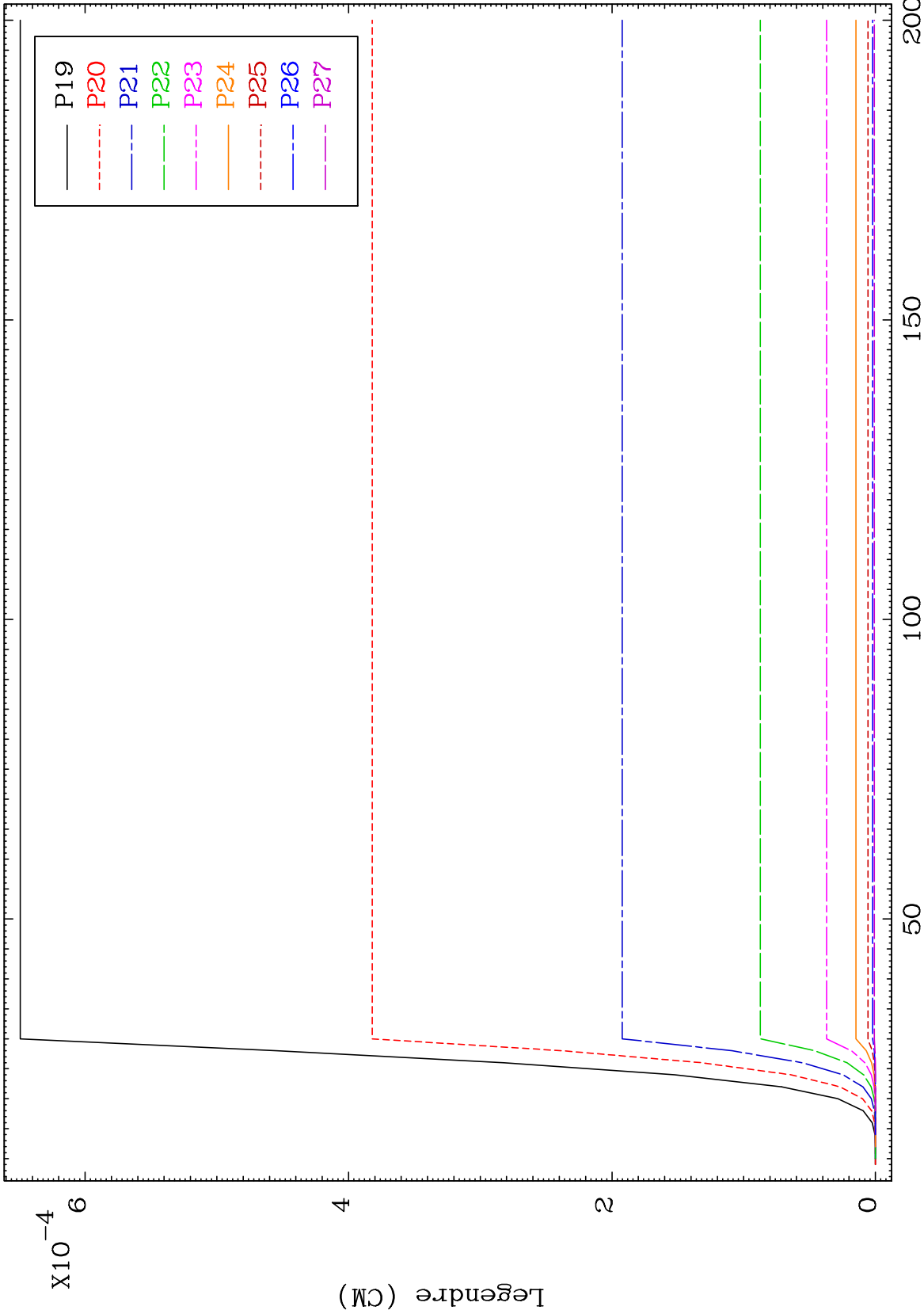
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98



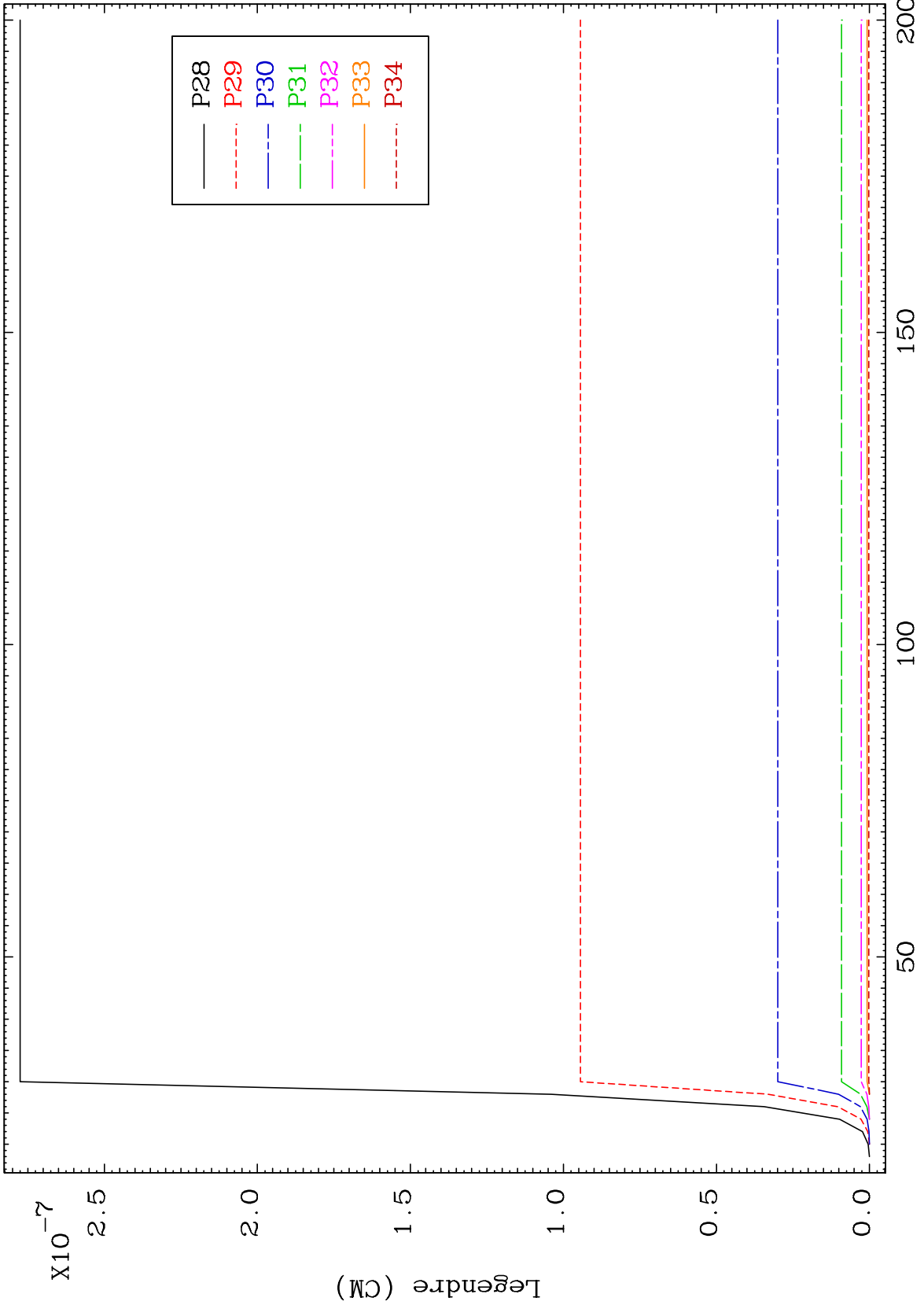
114

40-Zr-98

MAT 4049

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

40-Zr-98



115

Incident Energy (MeV)

40-Zr-98

MAT 4049

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

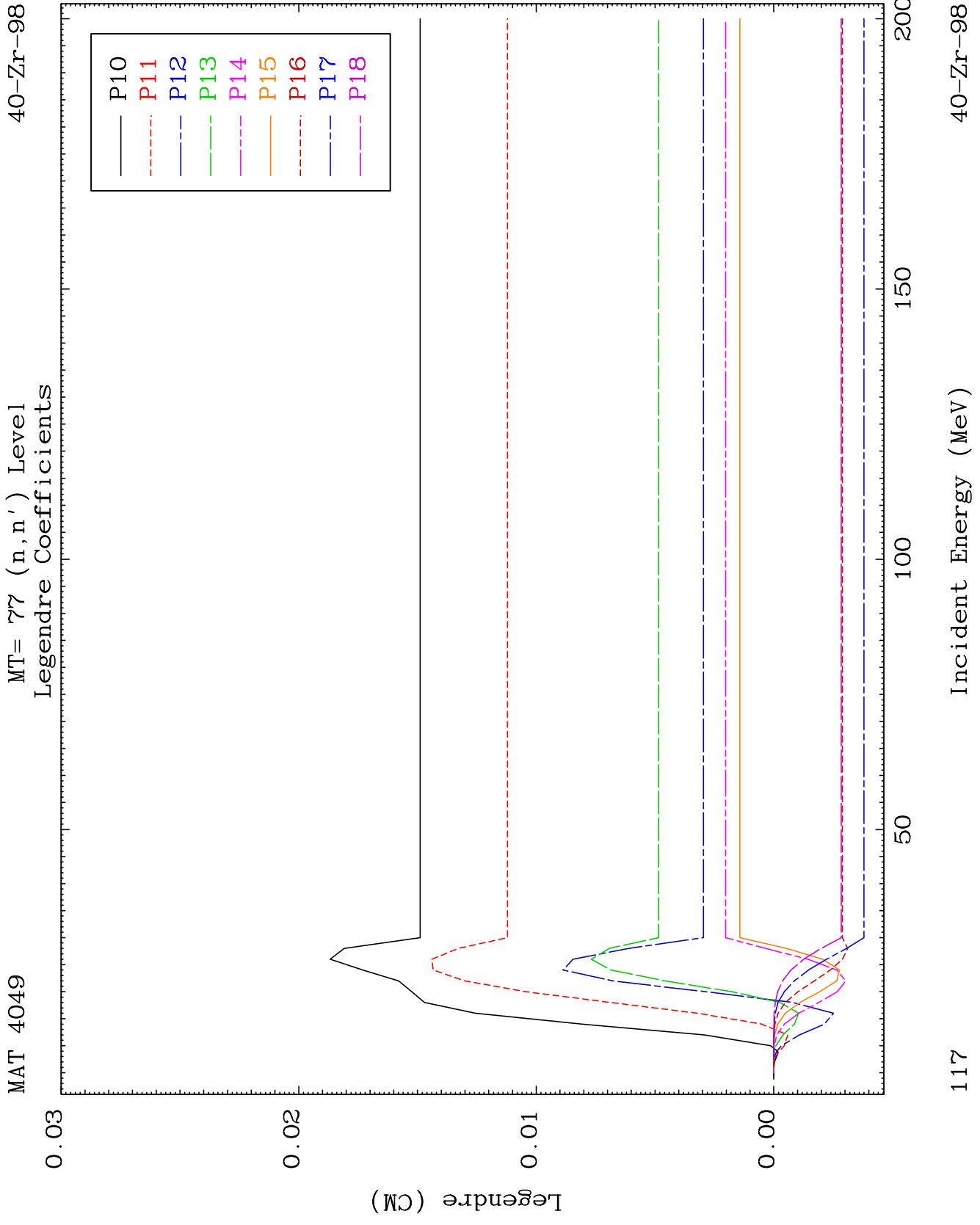
40-Zr-98



116

Incident Energy (MeV)

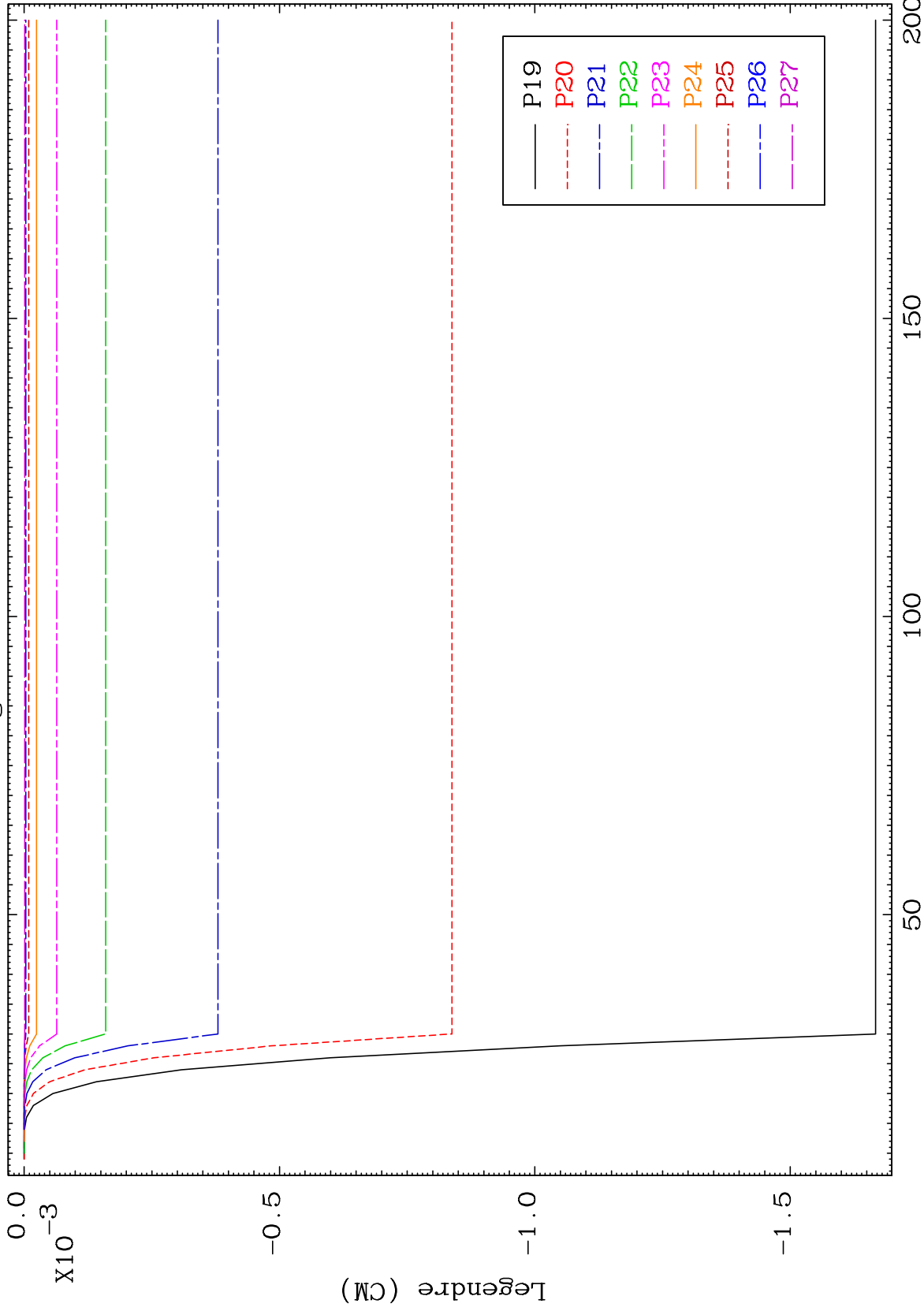
40-Zr-98



MAT 4049

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

40-Zr-98

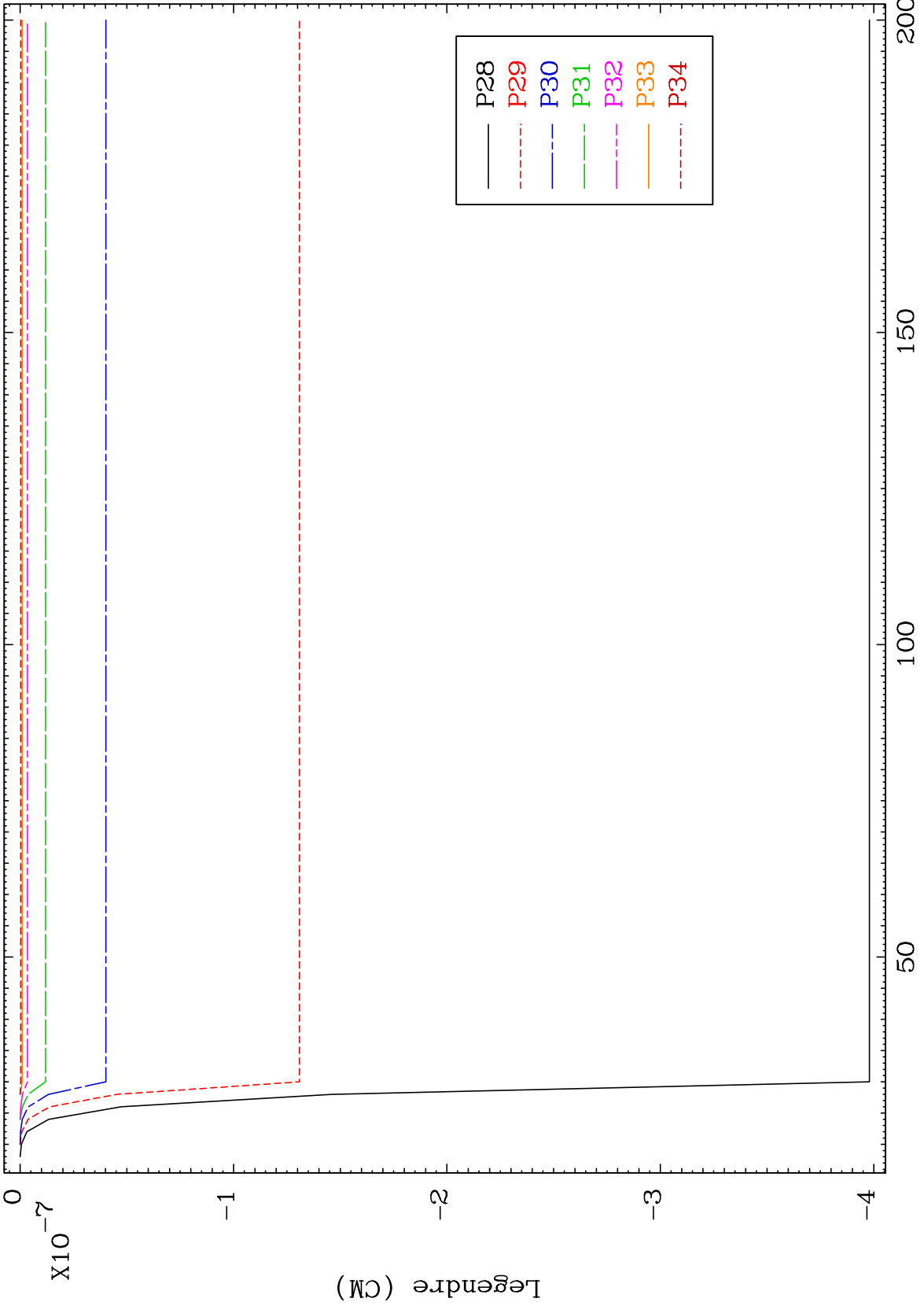


40-Zr-98

Incident Energy (MeV)

118

MAT 4049 MT= 77 (n,n') Level Legendre Coefficients 40-Zr-98



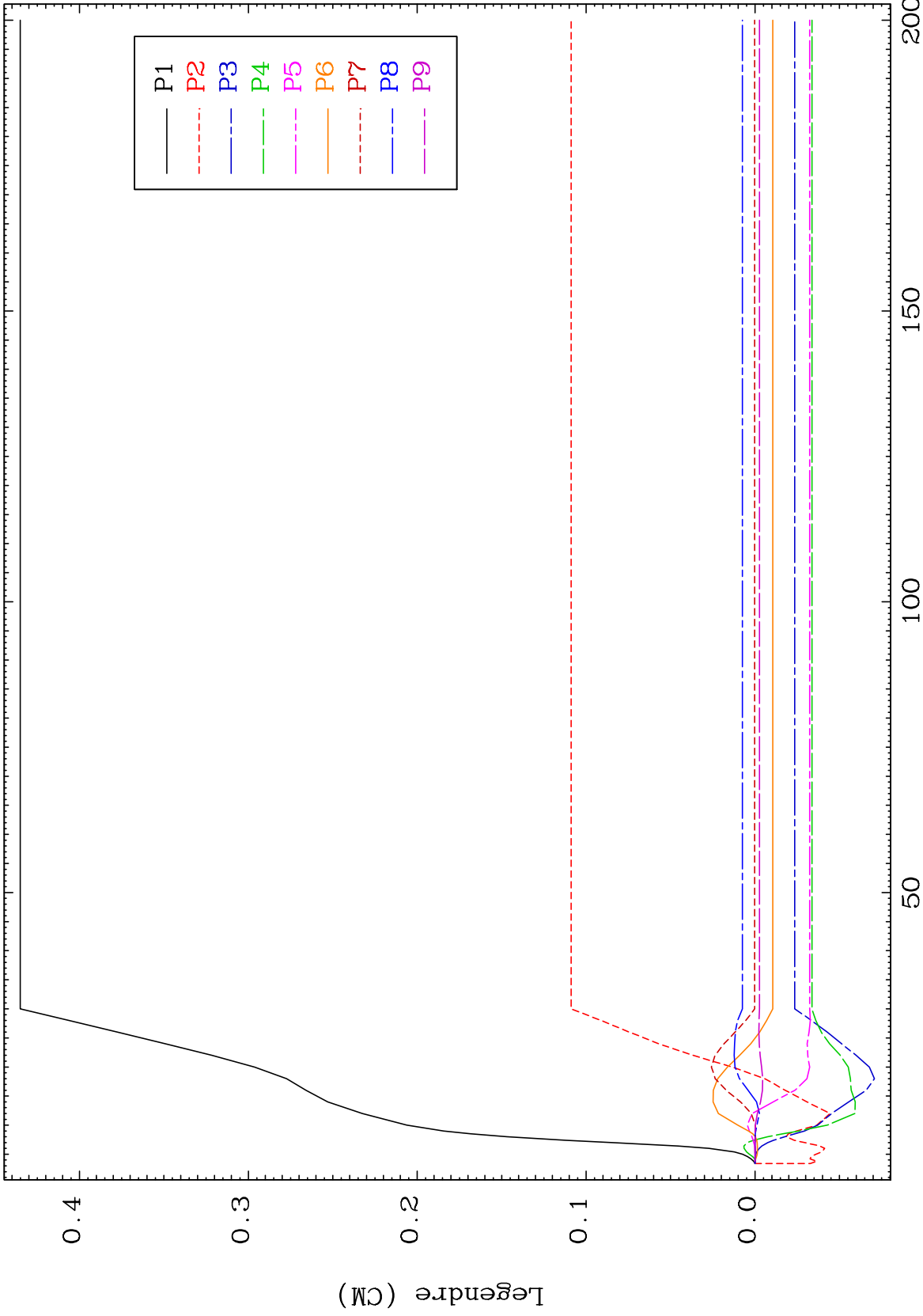
119 40-Zr-98



MAT 4049

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

40-Zr-98



120

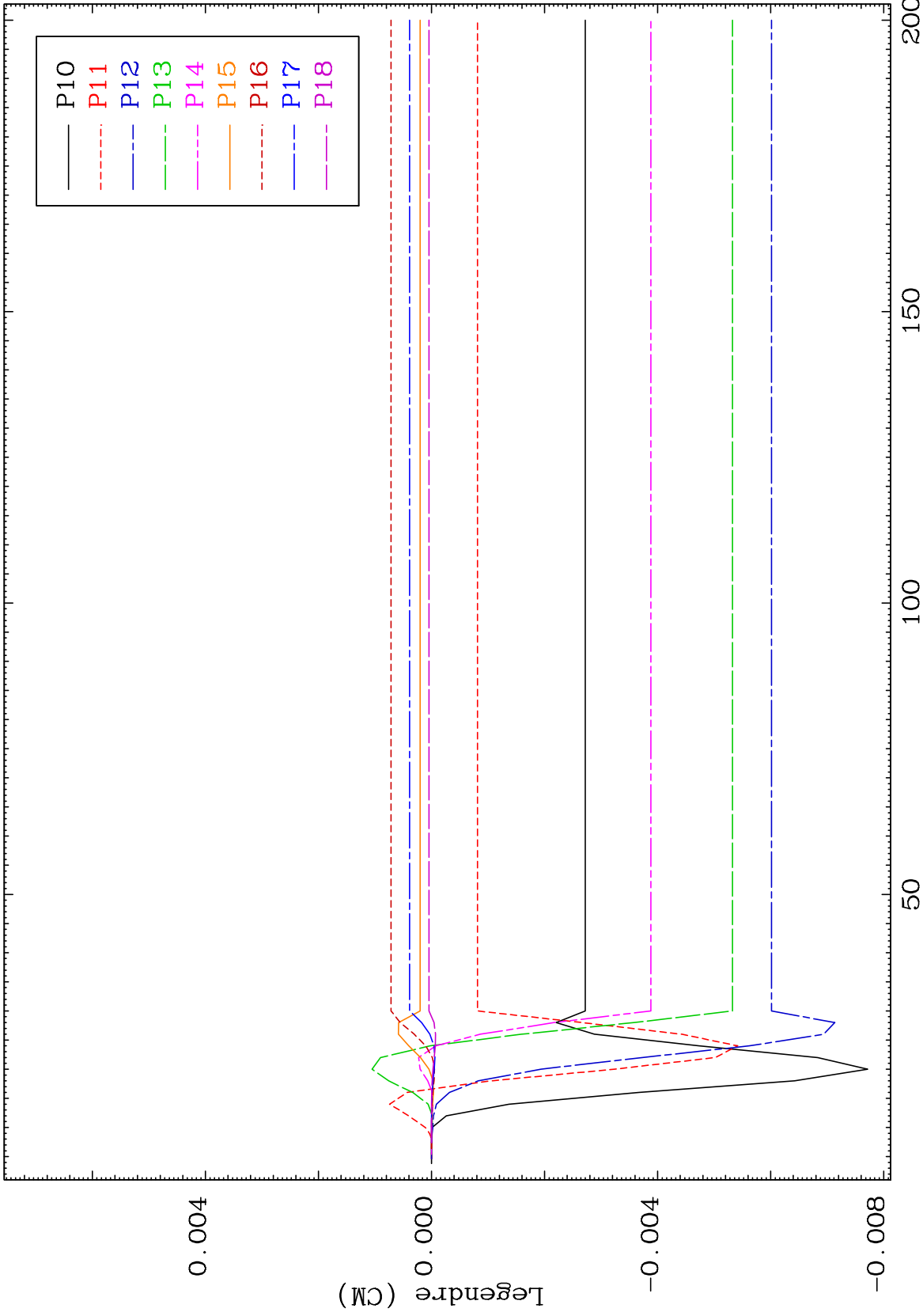
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

40-Zr-98



121

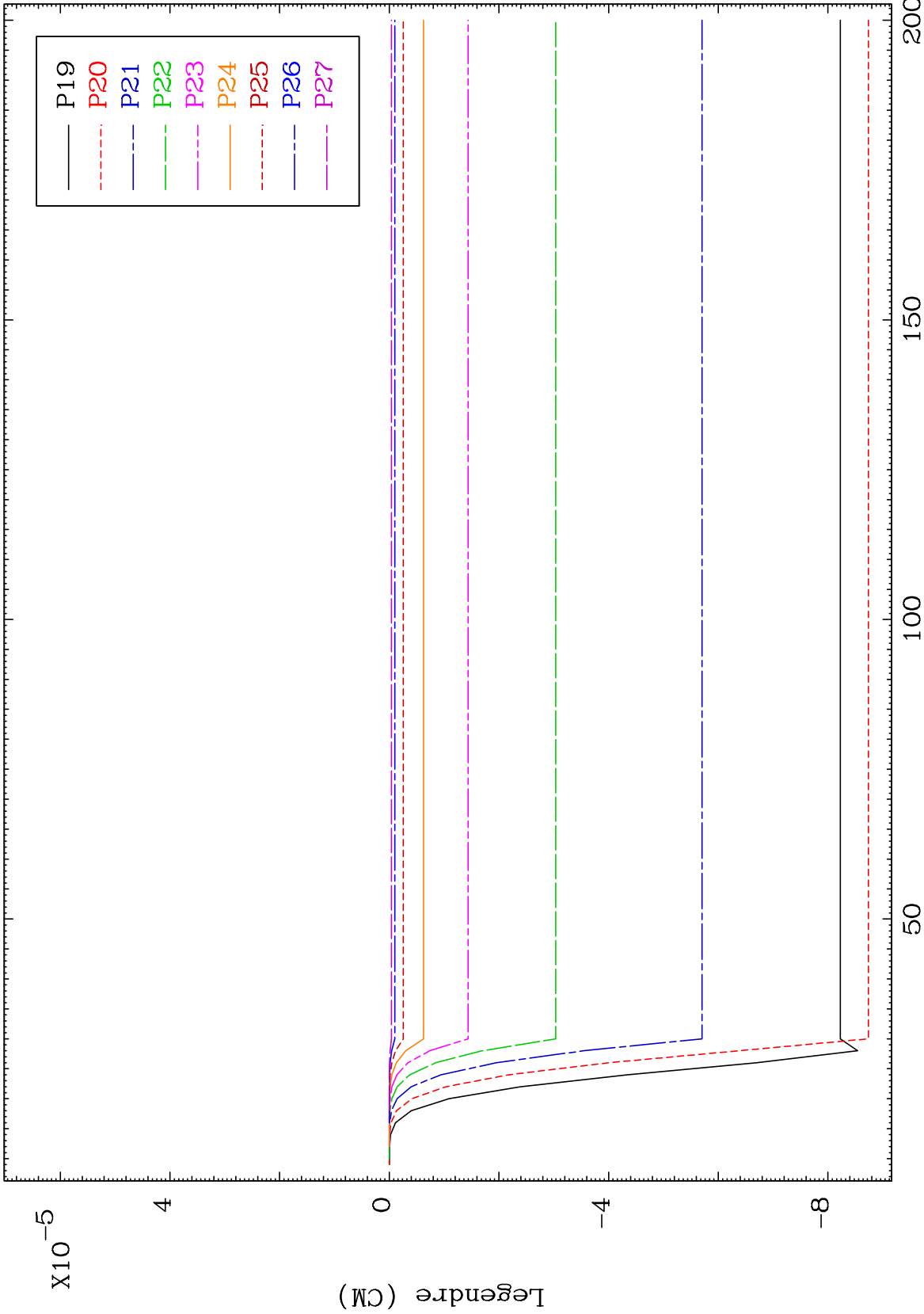
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

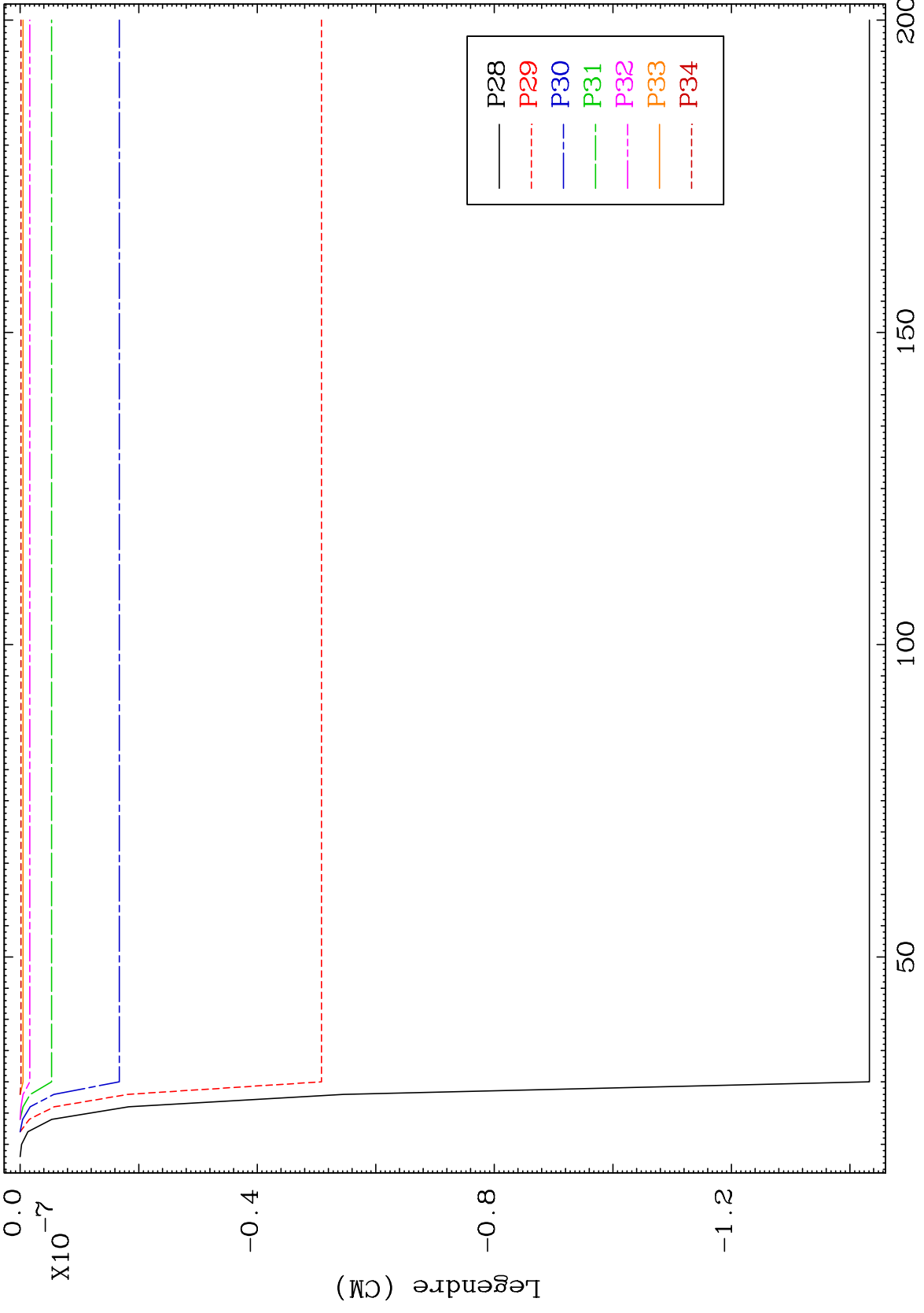
40-Zr-98



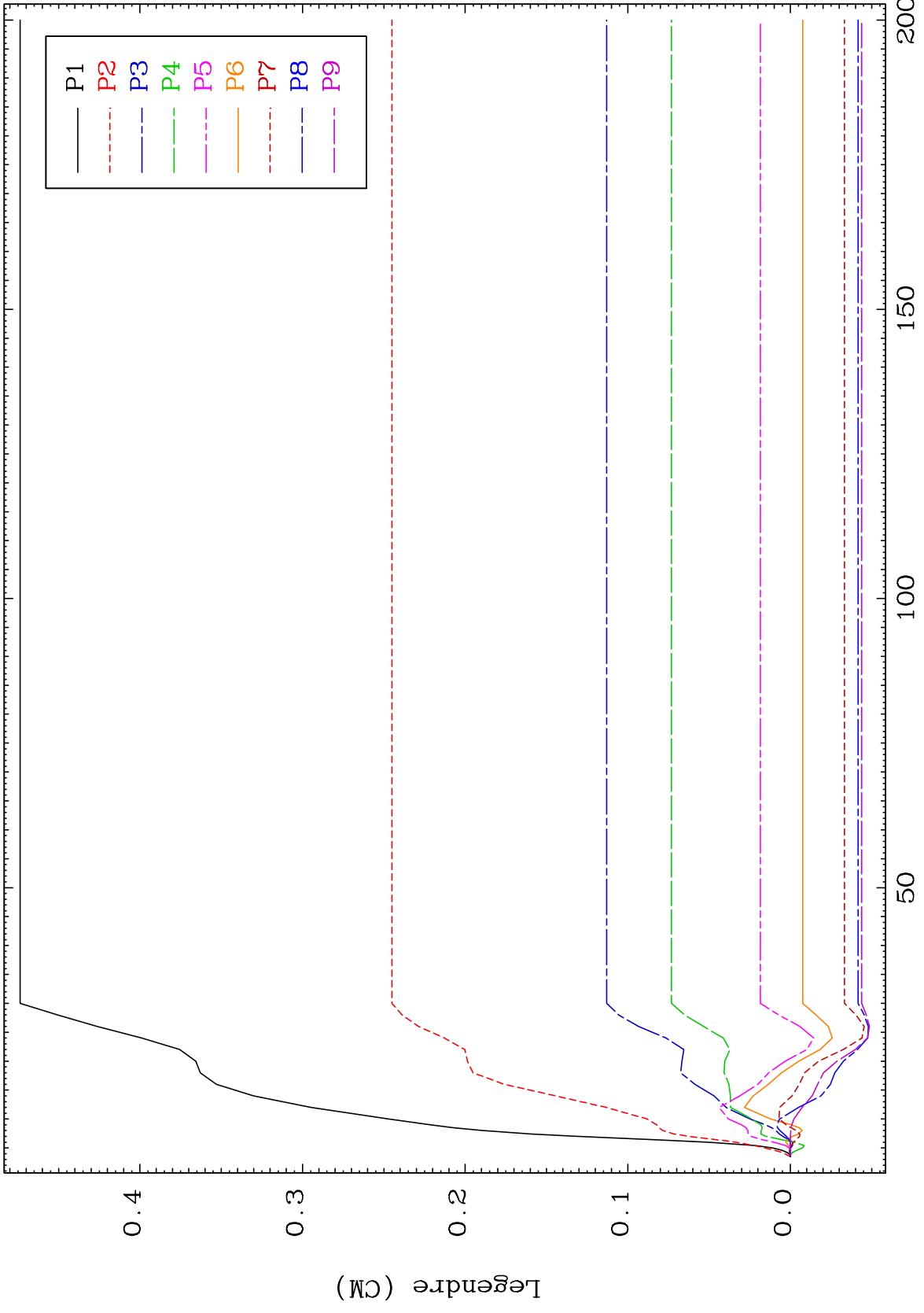
122

40-Zr-98

MAT 4049 MT= 78 (n,n') Level Legendre Coefficients 40-Zr-98



MAT 4049 MT= 79 (n,n') Level Legendre Coefficients 40-Zr-98

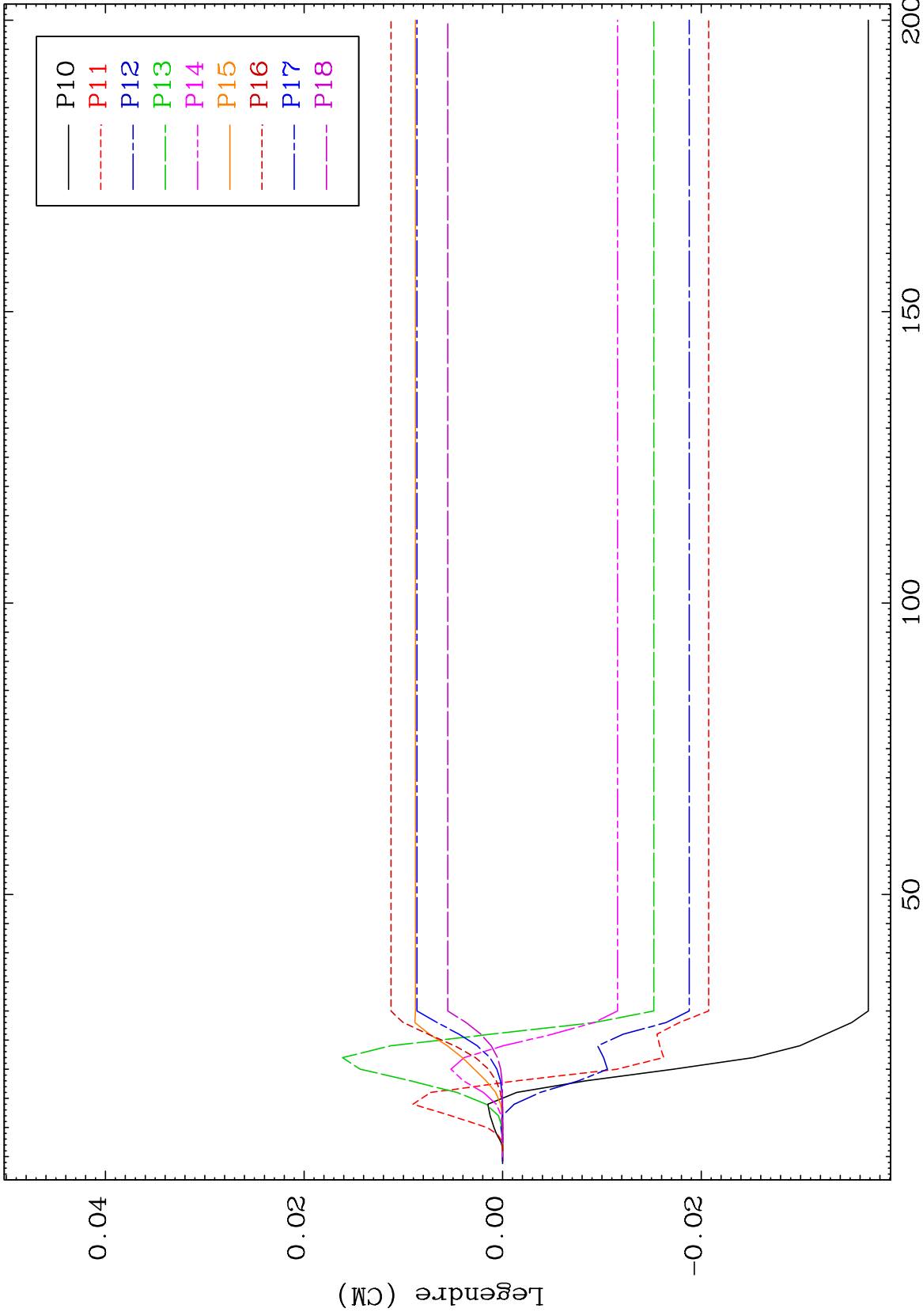


124 Incident Energy (MeV) 40-Zr-98

MAT 4049

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

40-Zr-98



125

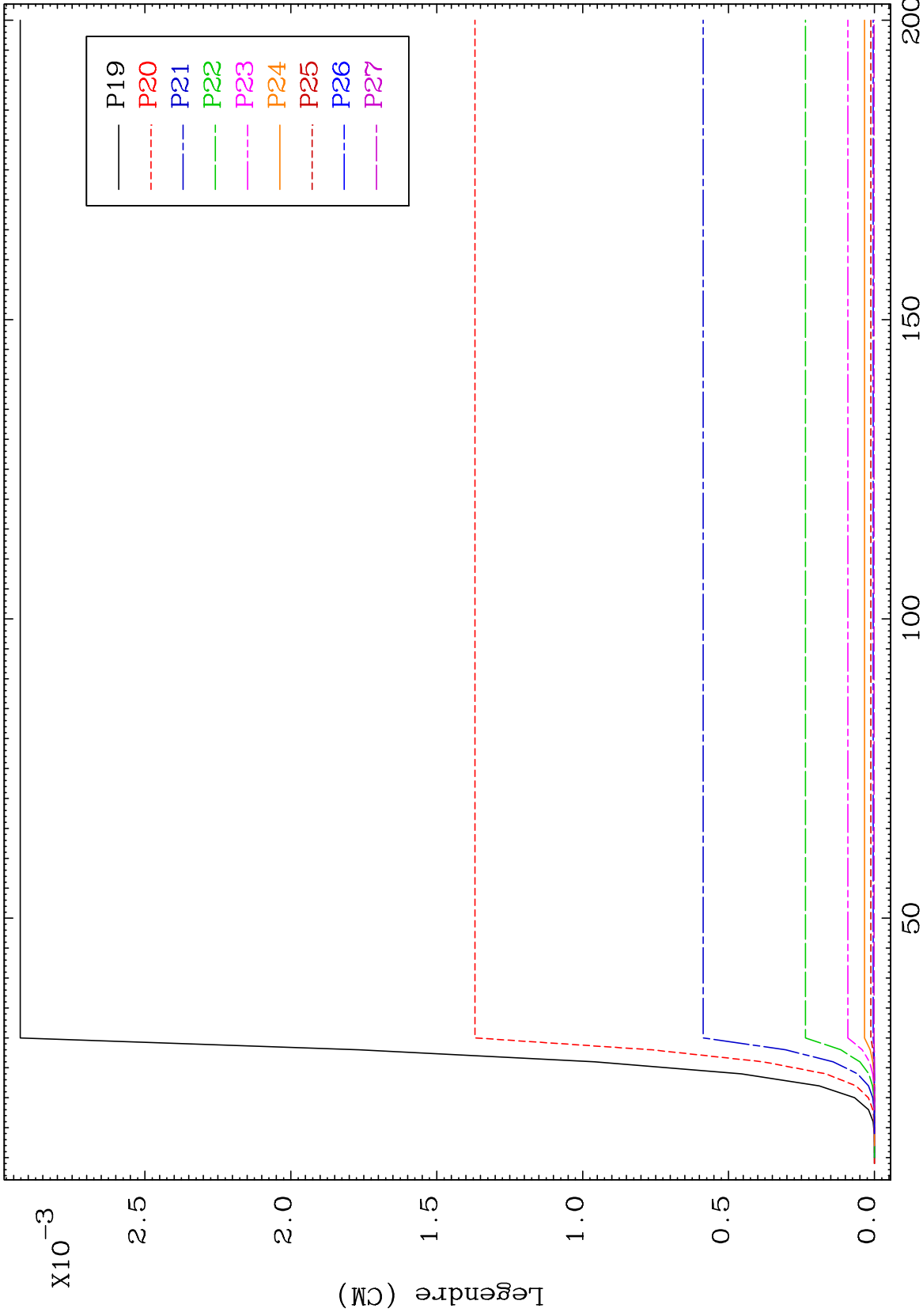
Incident Energy (MeV)

40-Zr-98

MAT 4049

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

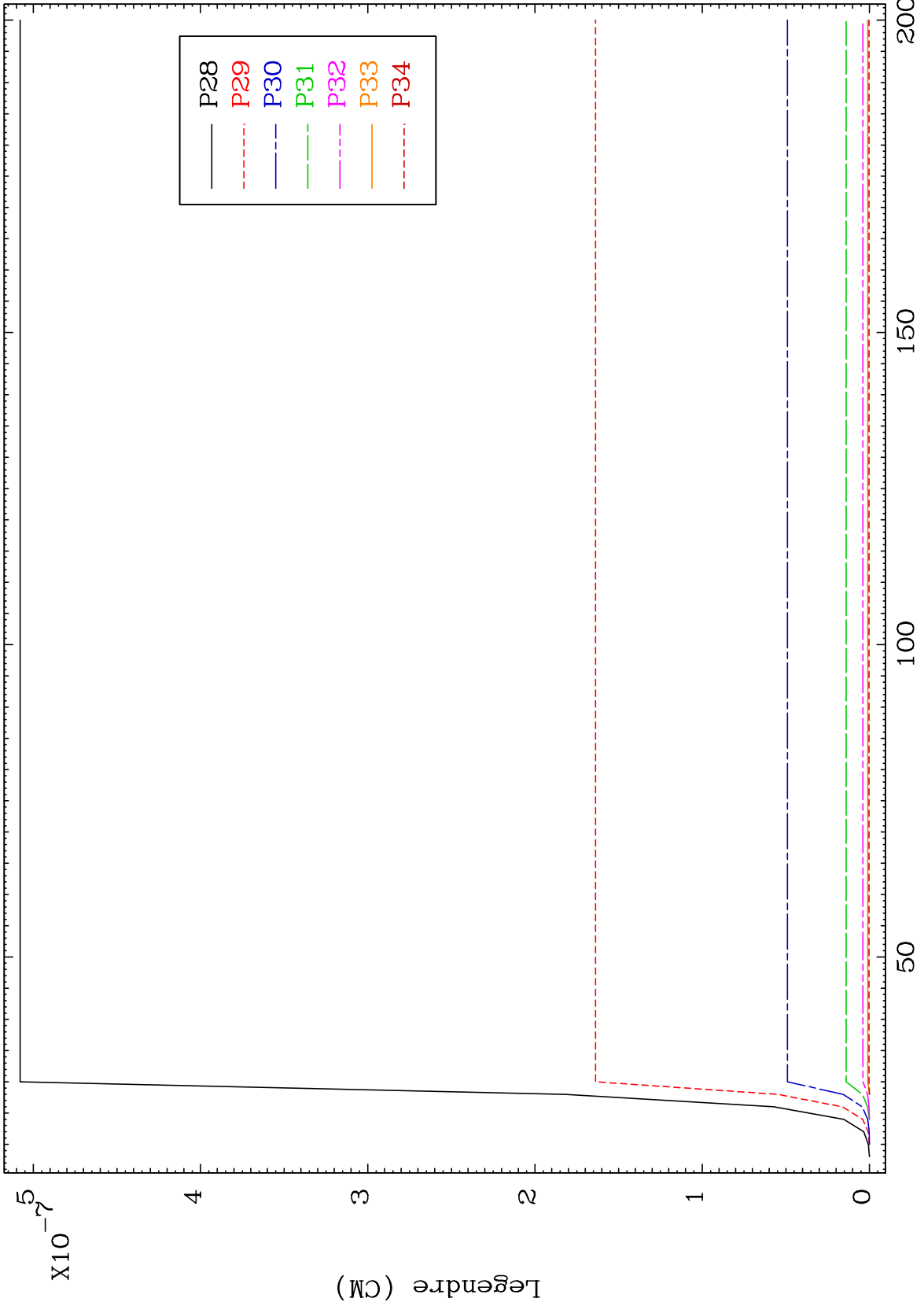
40-Zr-98



126

40-Zr-98

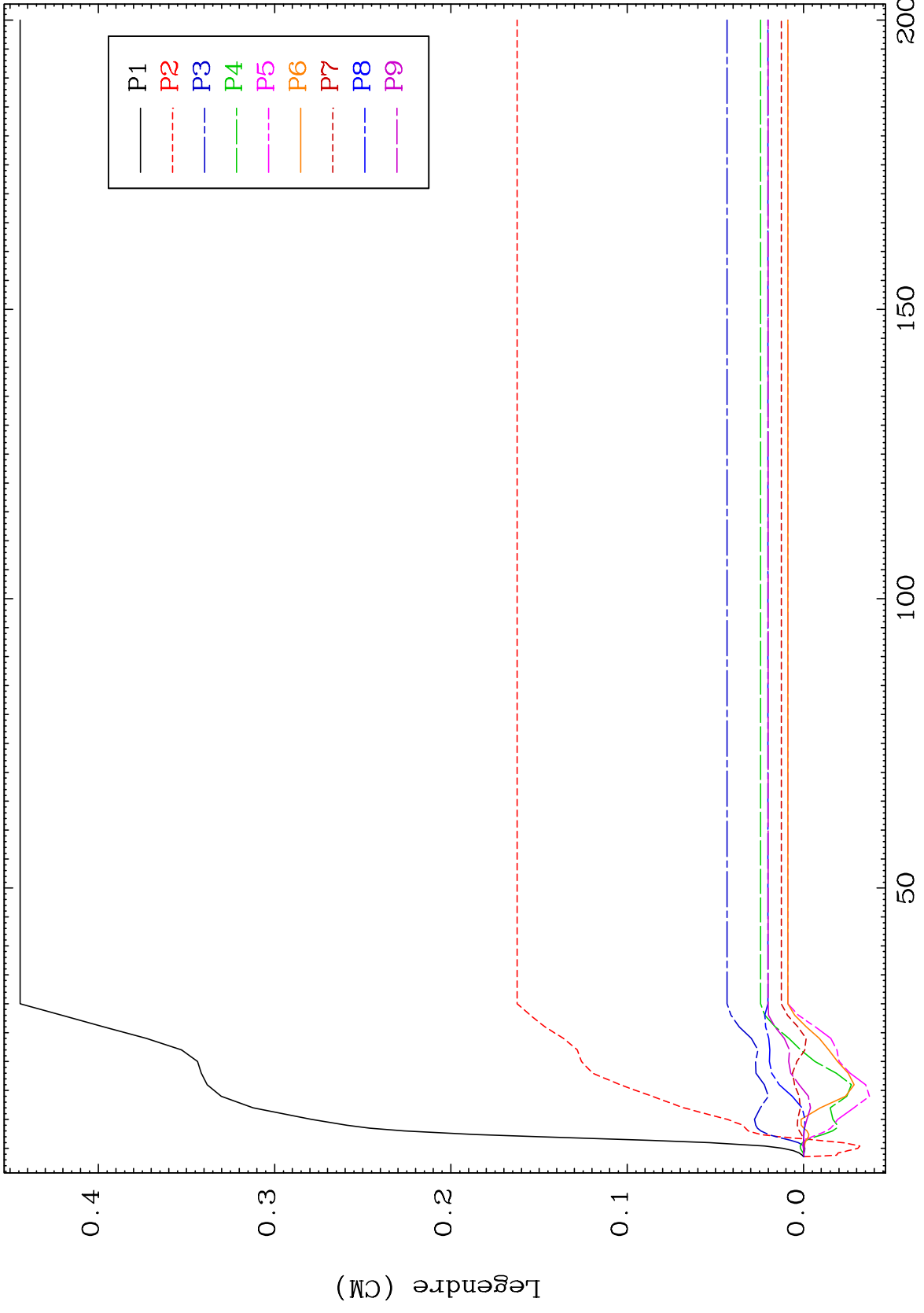
MAT 4049 MT= 79 (n,n') Level Legendre Coefficients 40-Zr-98



127 40-Zr-98



MAT 4049 MT= 80 (n,n') Level Legendre Coefficients 40-Zr-98

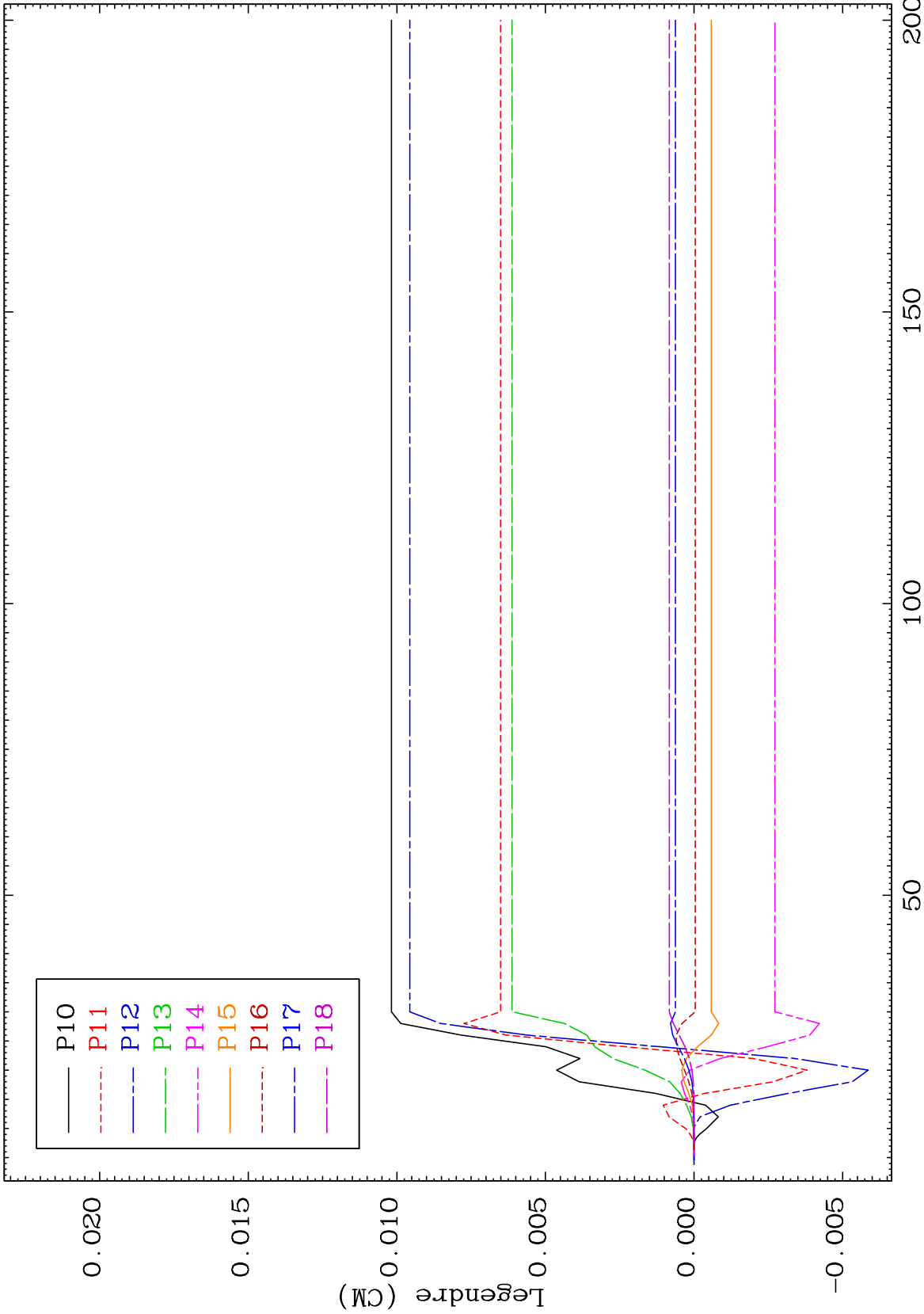


128 Incident Energy (MeV) 40-Zr-98

MAT 4049

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

40-Zr-98

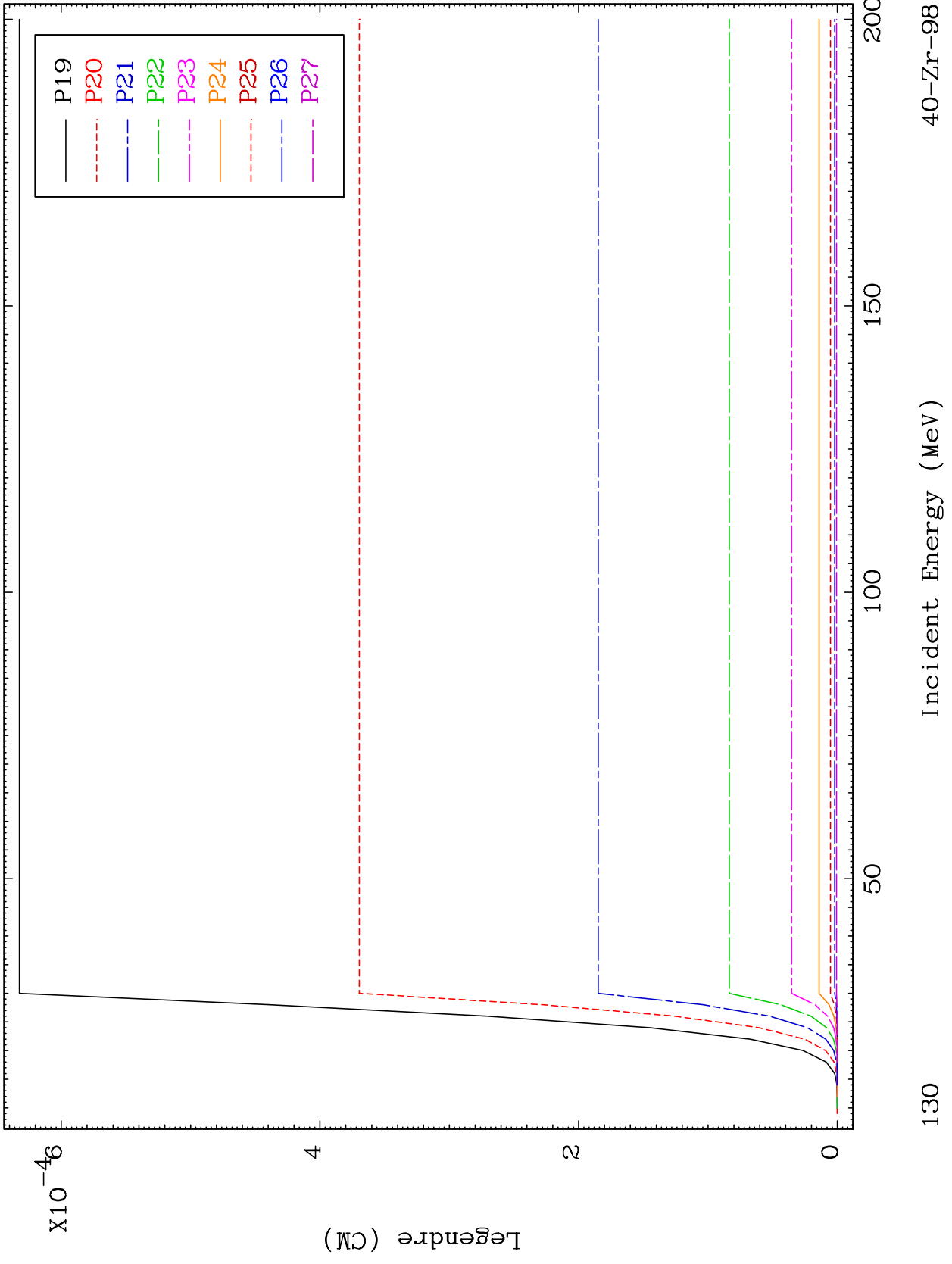


129

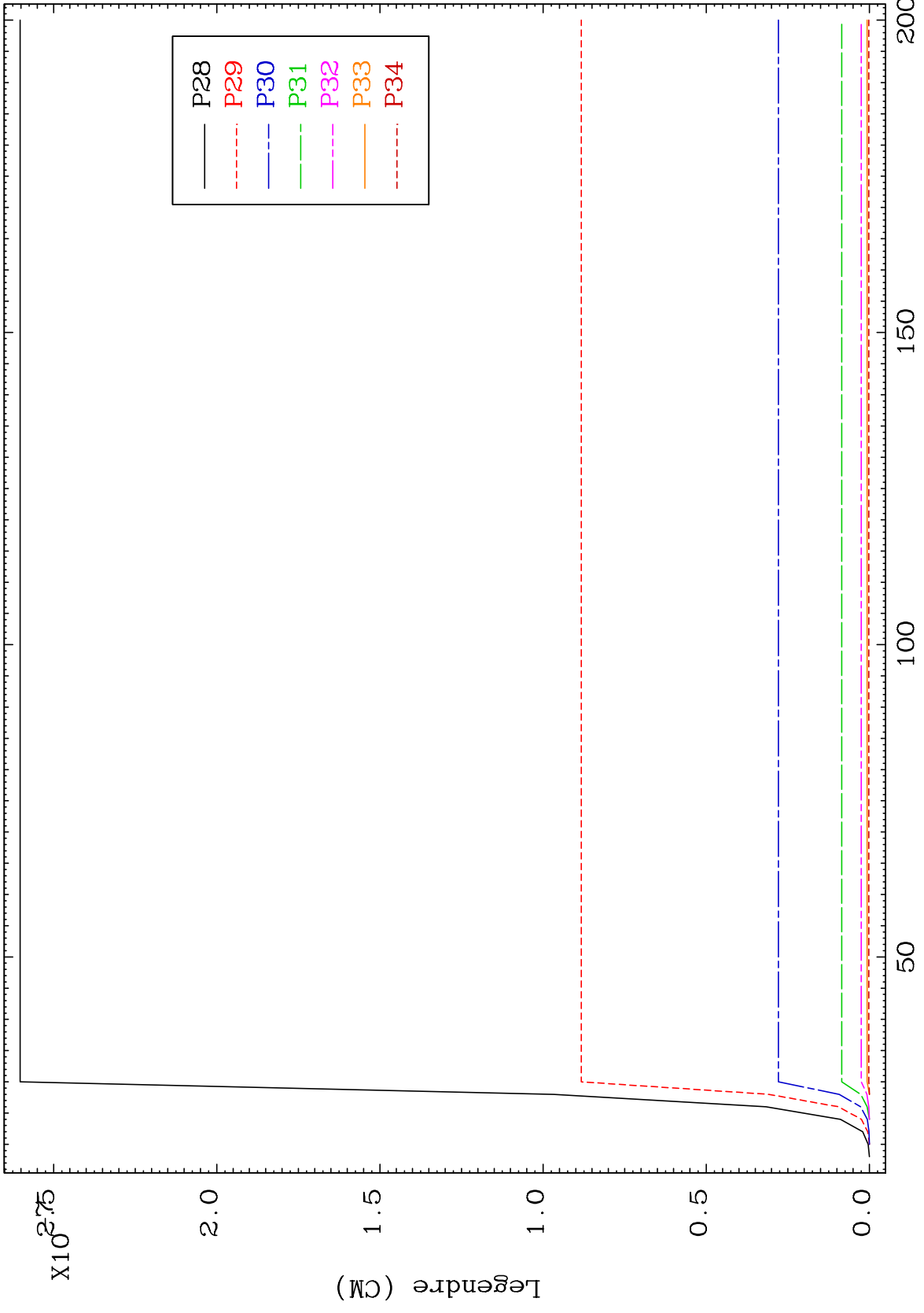
Incident Energy (MeV)

40-Zr-98

MAT 4049 MT= 80 (n,n') Level Legendre Coefficients 40-Zr-98



MAT 4049 MT= 80 (n, n') Level Legendre Coefficients 40-Zr-98

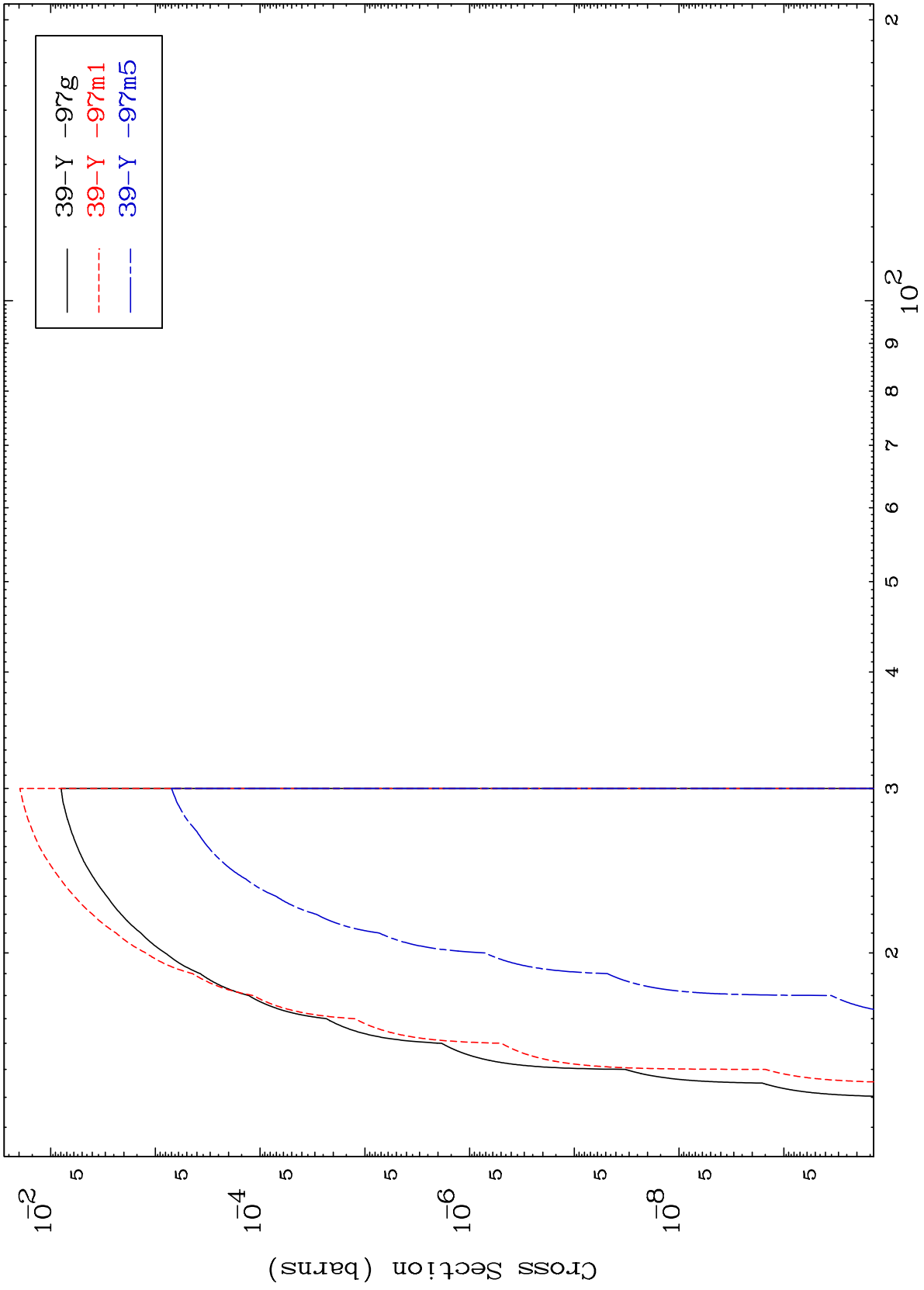


MAT 4049

(n,n') p

40-Zr-98

Radionuclide Production Cross Section



132

Incident Energy (MeV)

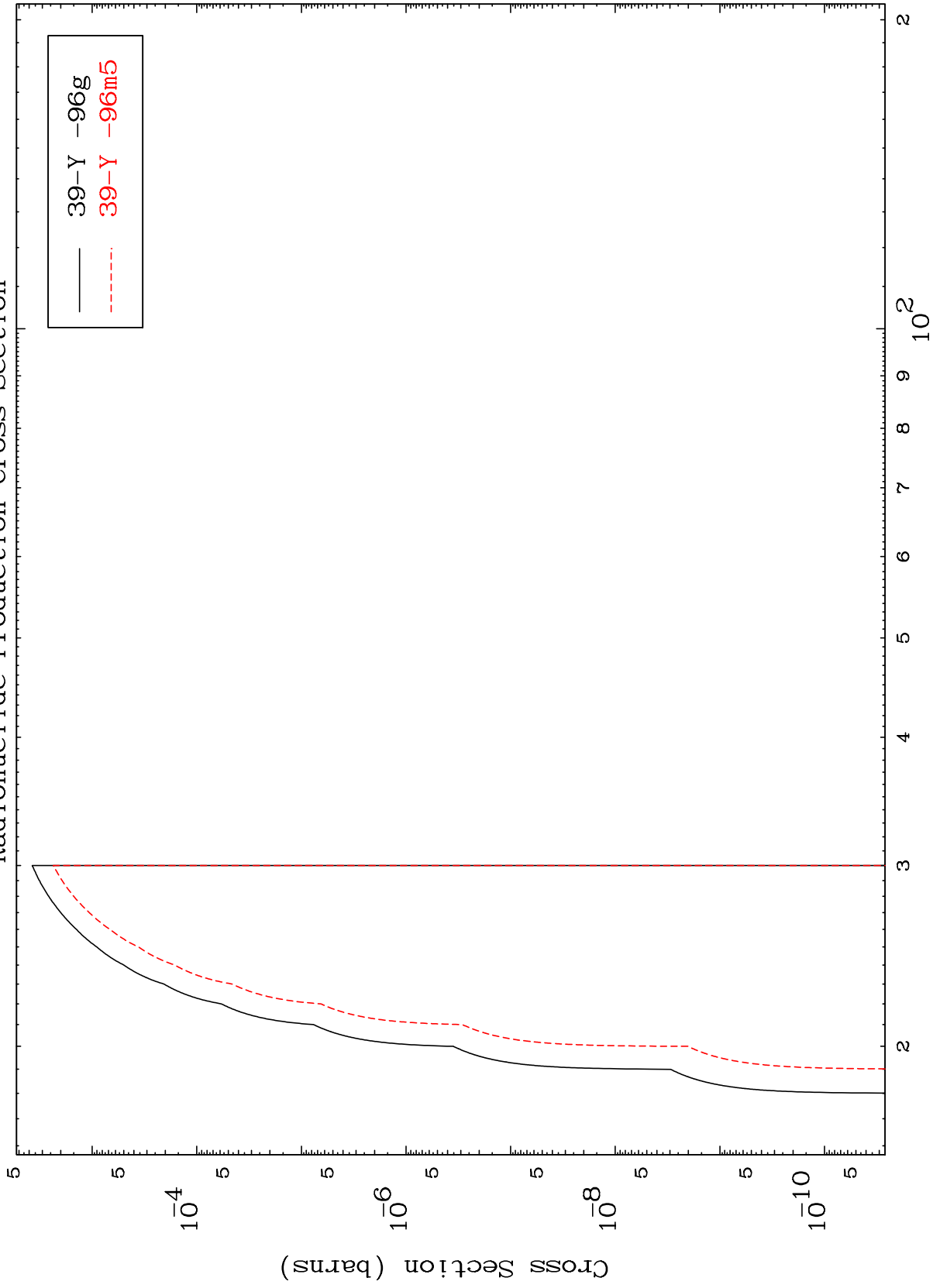
40-Zr-98

MAT 4049

(n,n') d

40-Zr-98

Radionuclide Production Cross Section



133

Incident Energy (MeV)

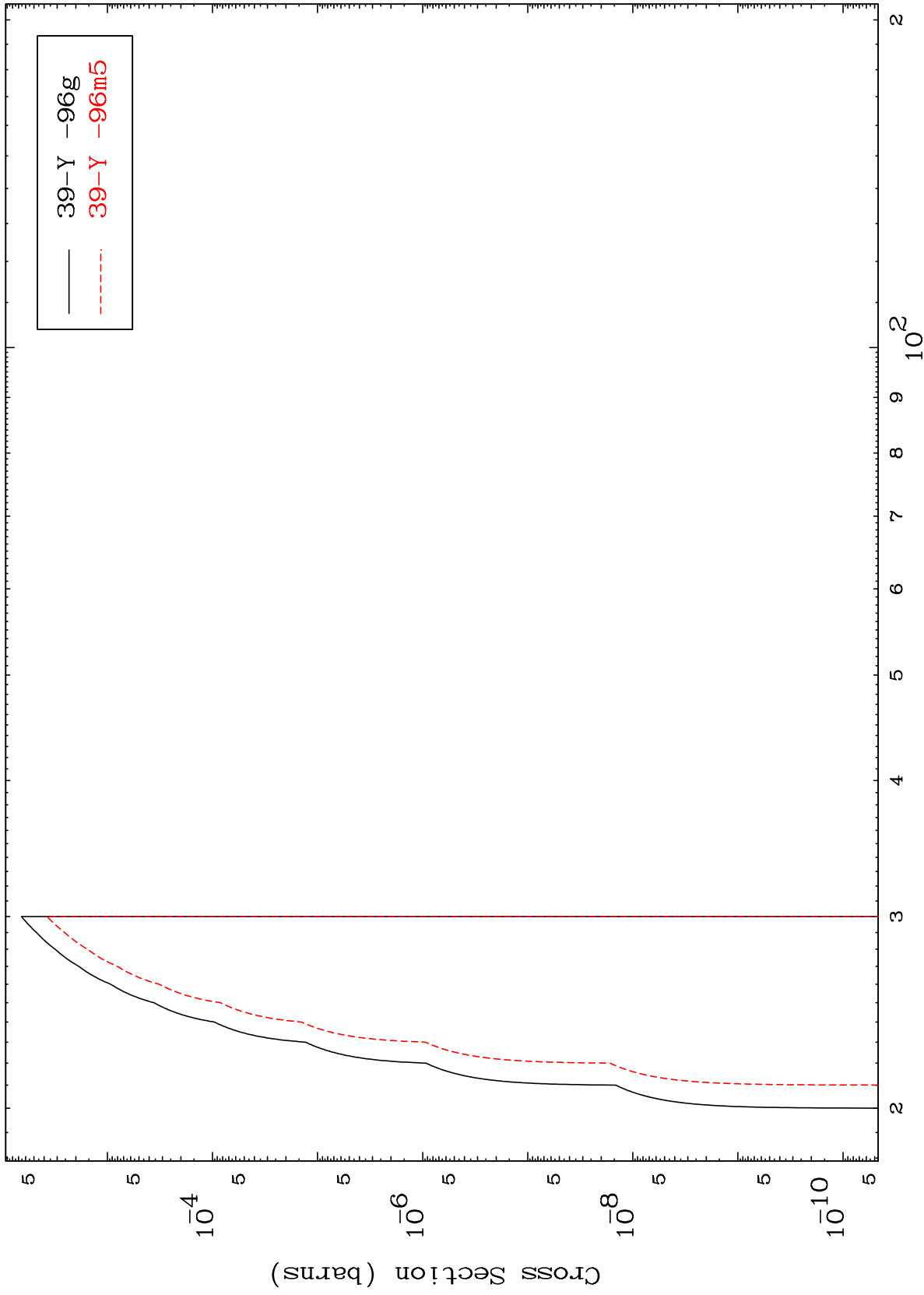
40-Zr-98

MAT 4049

(n,2n) p

40-Zr-98

Radionuclide Production Cross Section



134

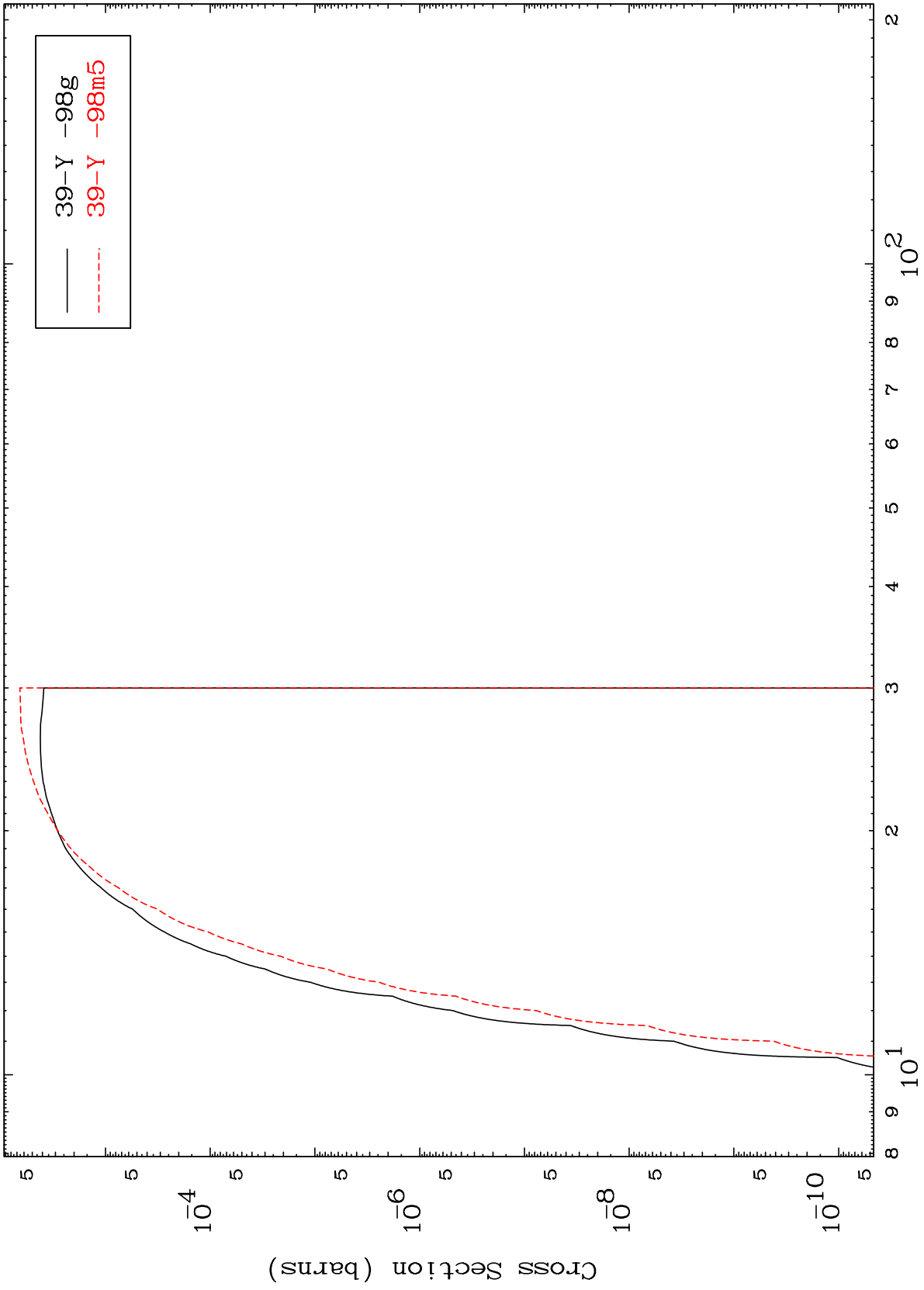
Incident Energy (MeV)

40-Zr-98

MAT 4049

40-Zr-98

(n,p)  
Radionuclide Production Cross Section



135

Incident Energy (MeV)

40-Zr-98

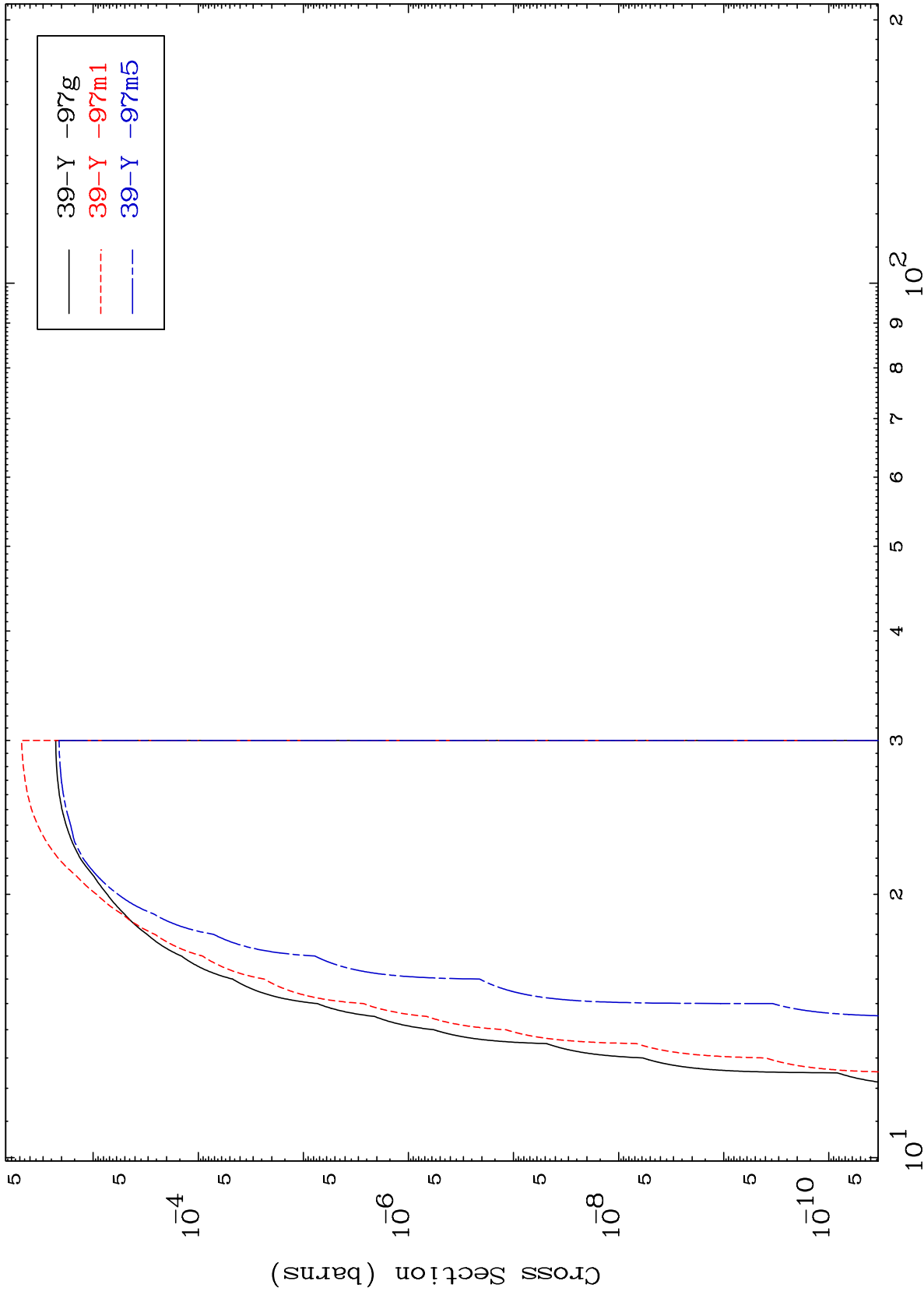


MAT 4049

(n,d)

40-Zr-98

Radionuclide Production Cross Section



136

Incident Energy (MeV)

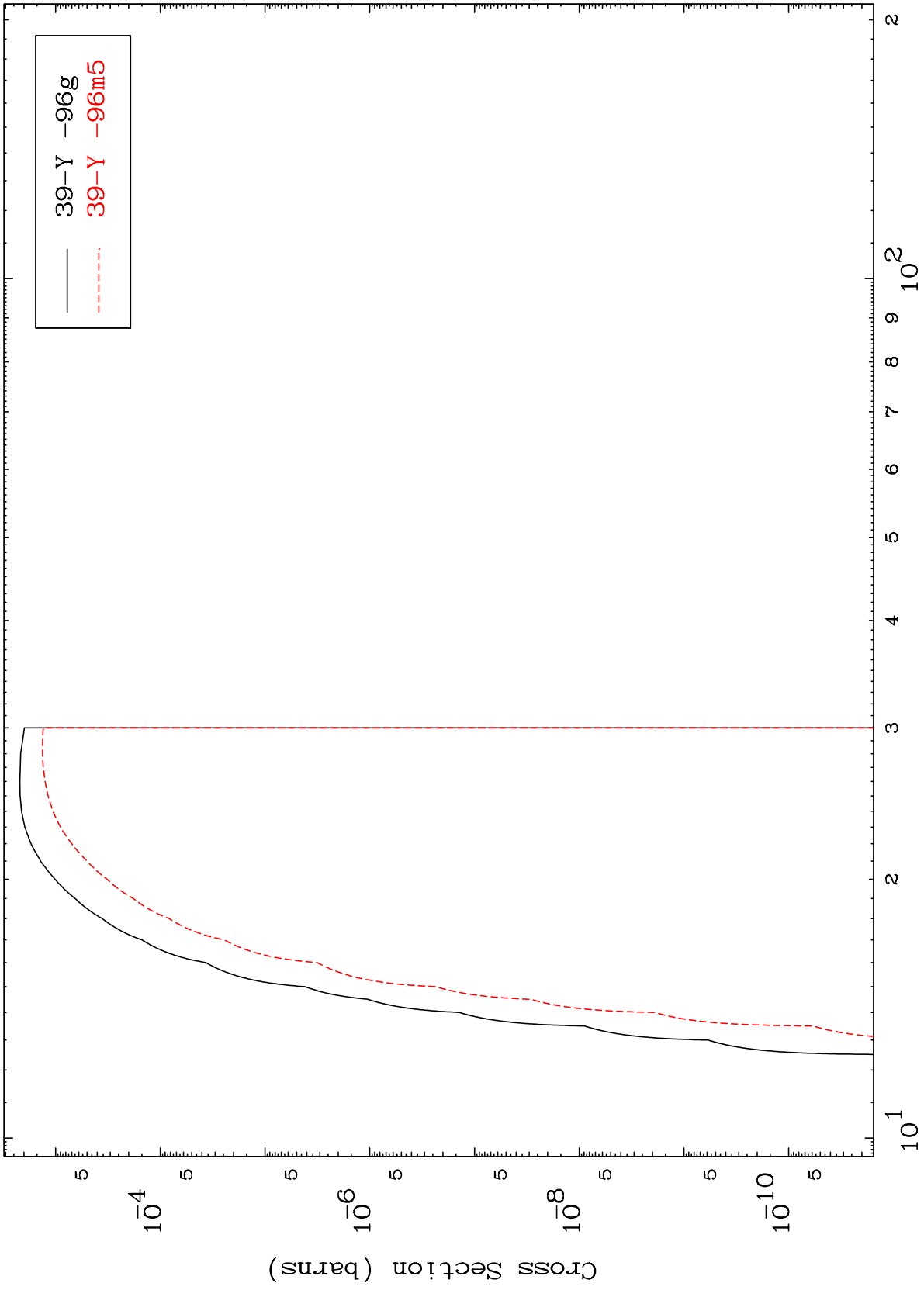
40-Zr-98

MAT 4049

(n, t)

40-Zr-98

Radionuclide Production Cross Section



137

Incident Energy (MeV)

40-Zr-98