

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail: redcullen1@comcast.net

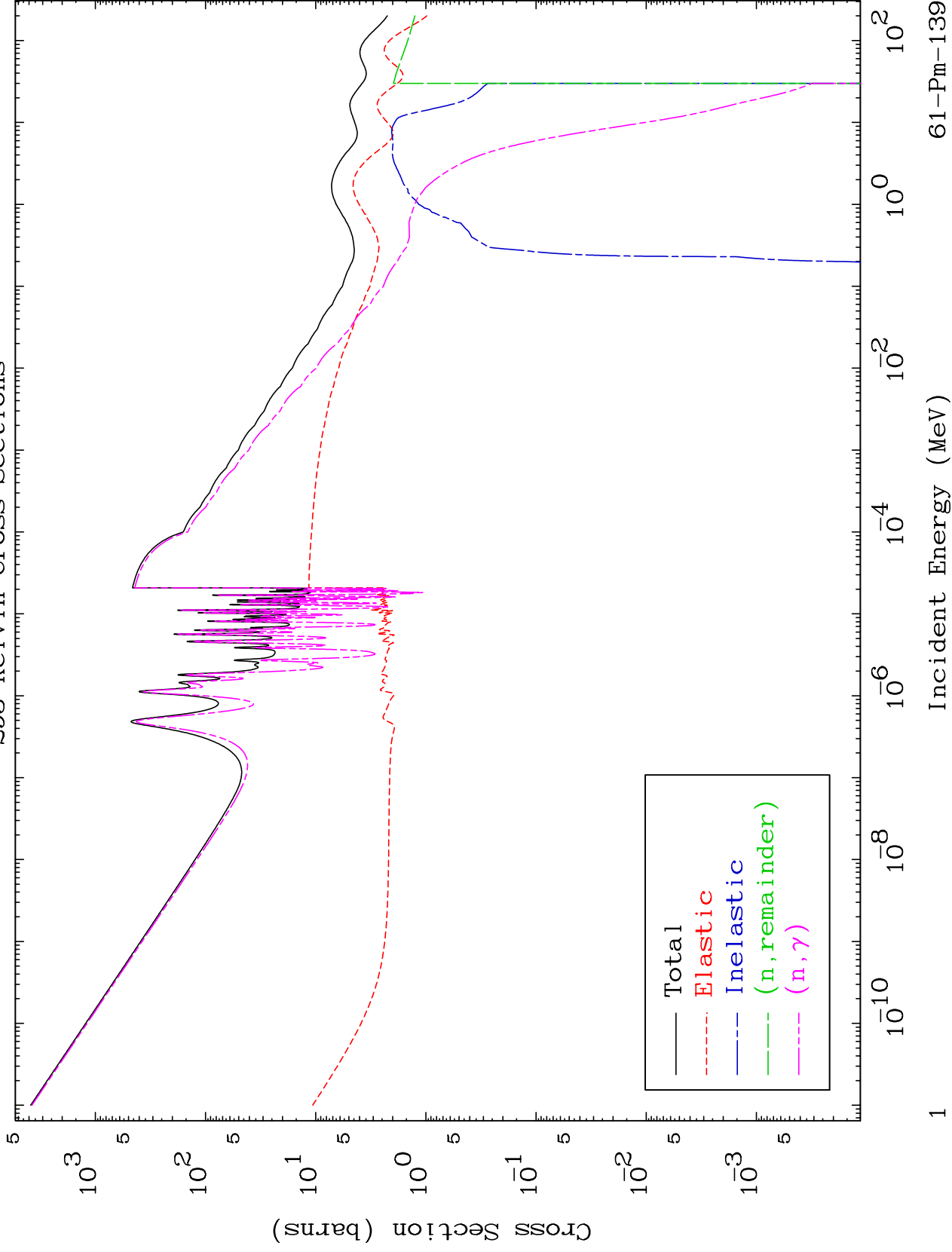
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6125

Major
293 Kelvin Cross Sections

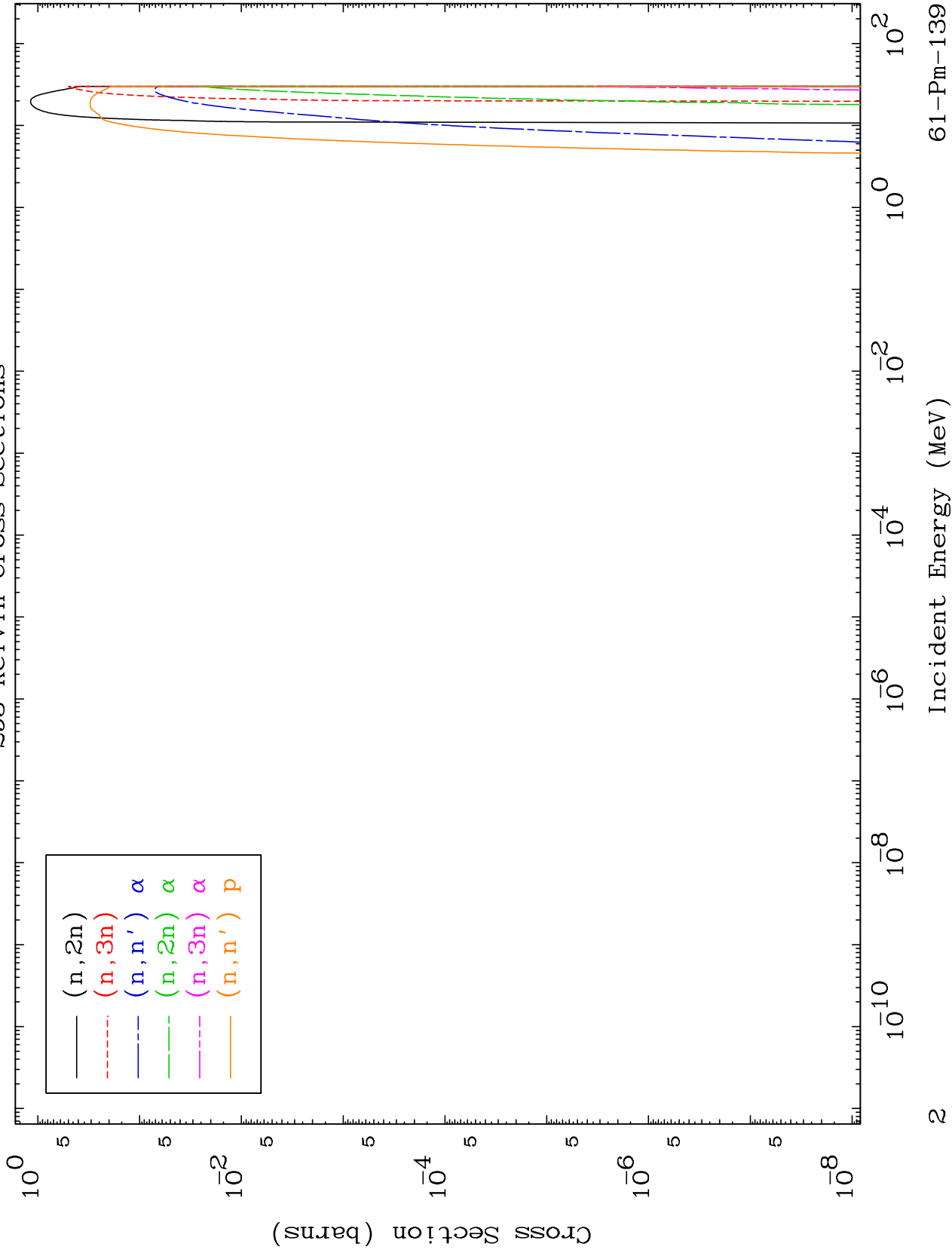
61-Pm-139



MAT 6125

Neutron Production
293 Kelvin Cross Sections

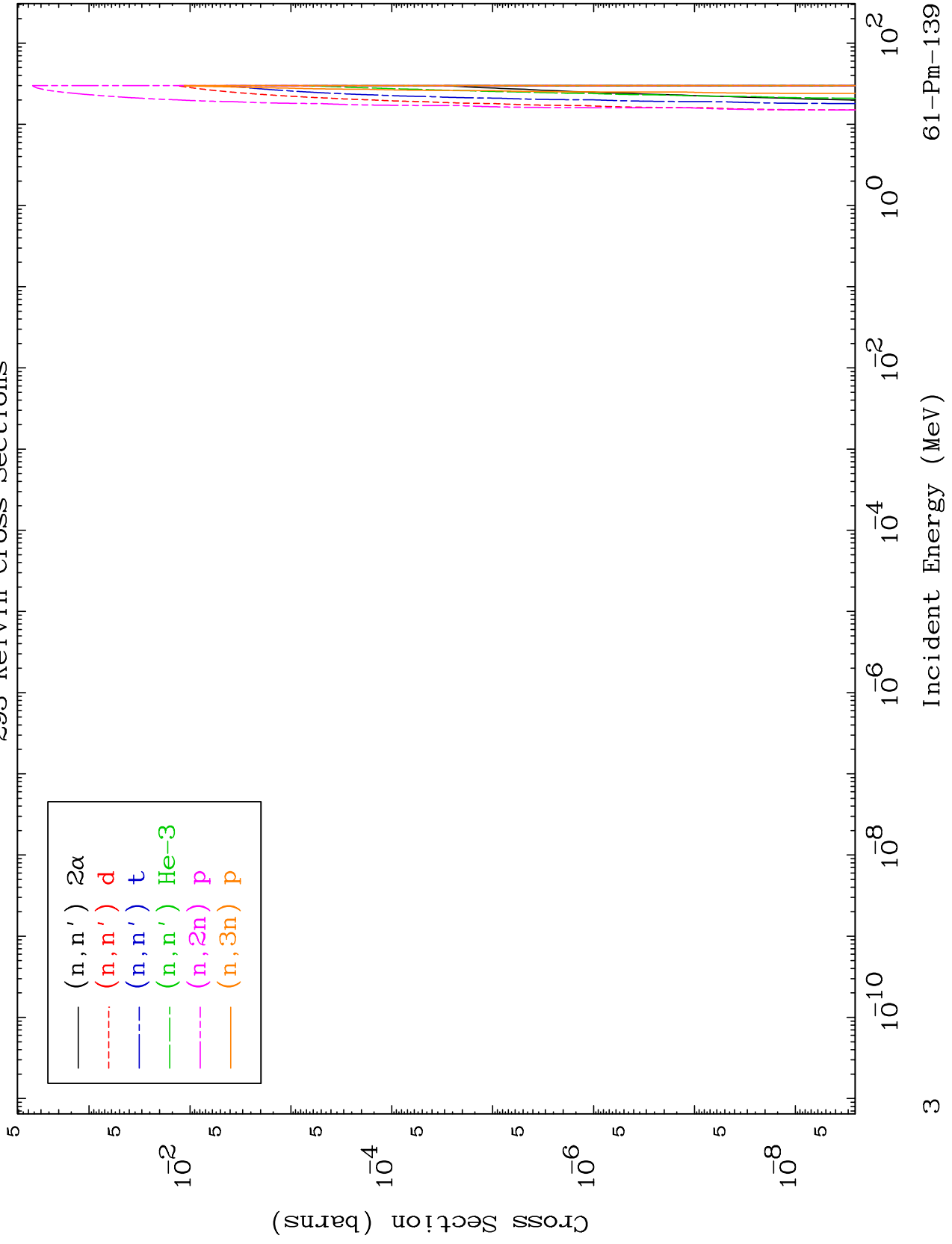
61-Pm-139



MAT 6125

Neutron Production
293 Kelvin Cross Sections

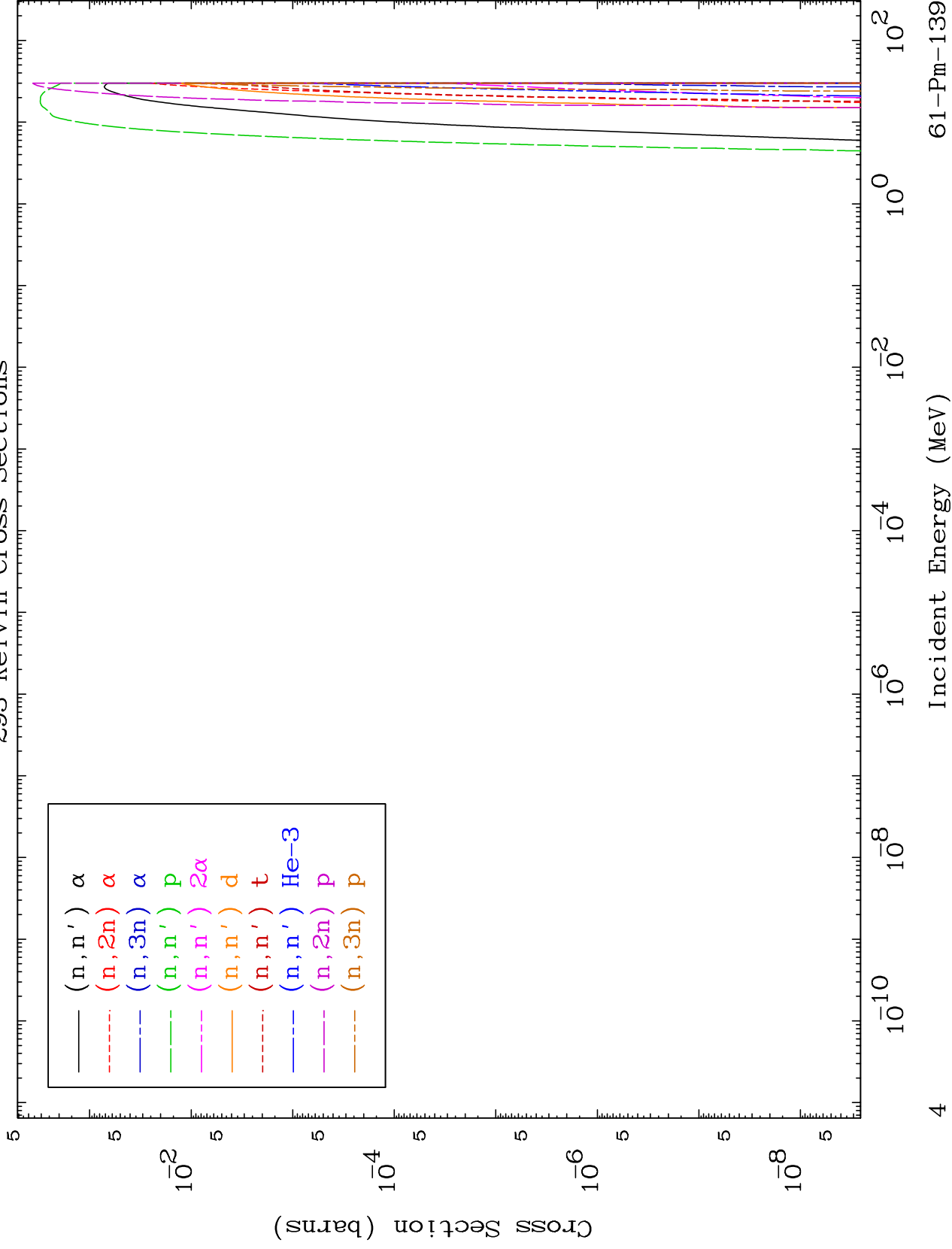
61-Pm-139



MAT 6125

Charged Particle
293 Kelvin Cross Sections

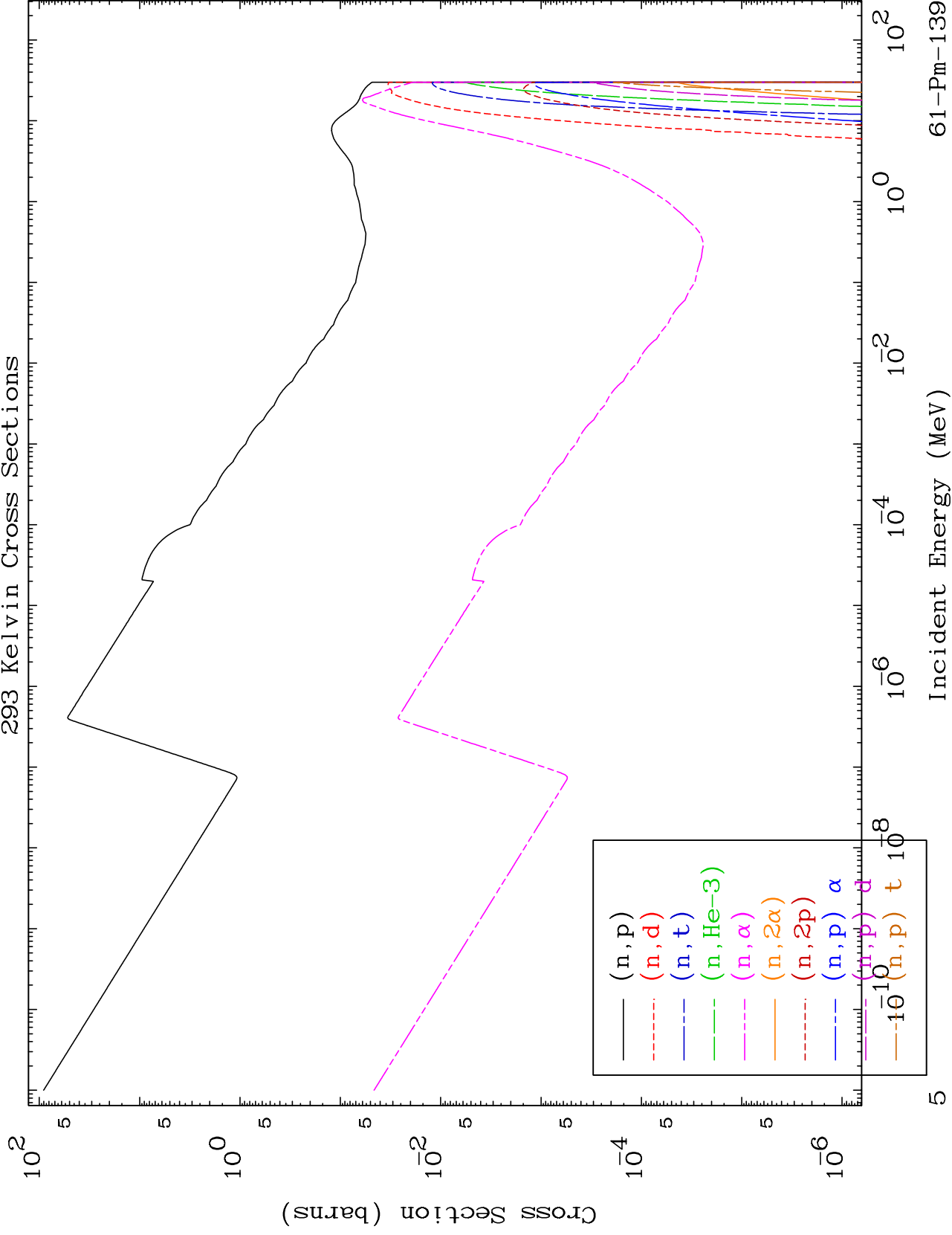
61-Pm-139



MAT 6125

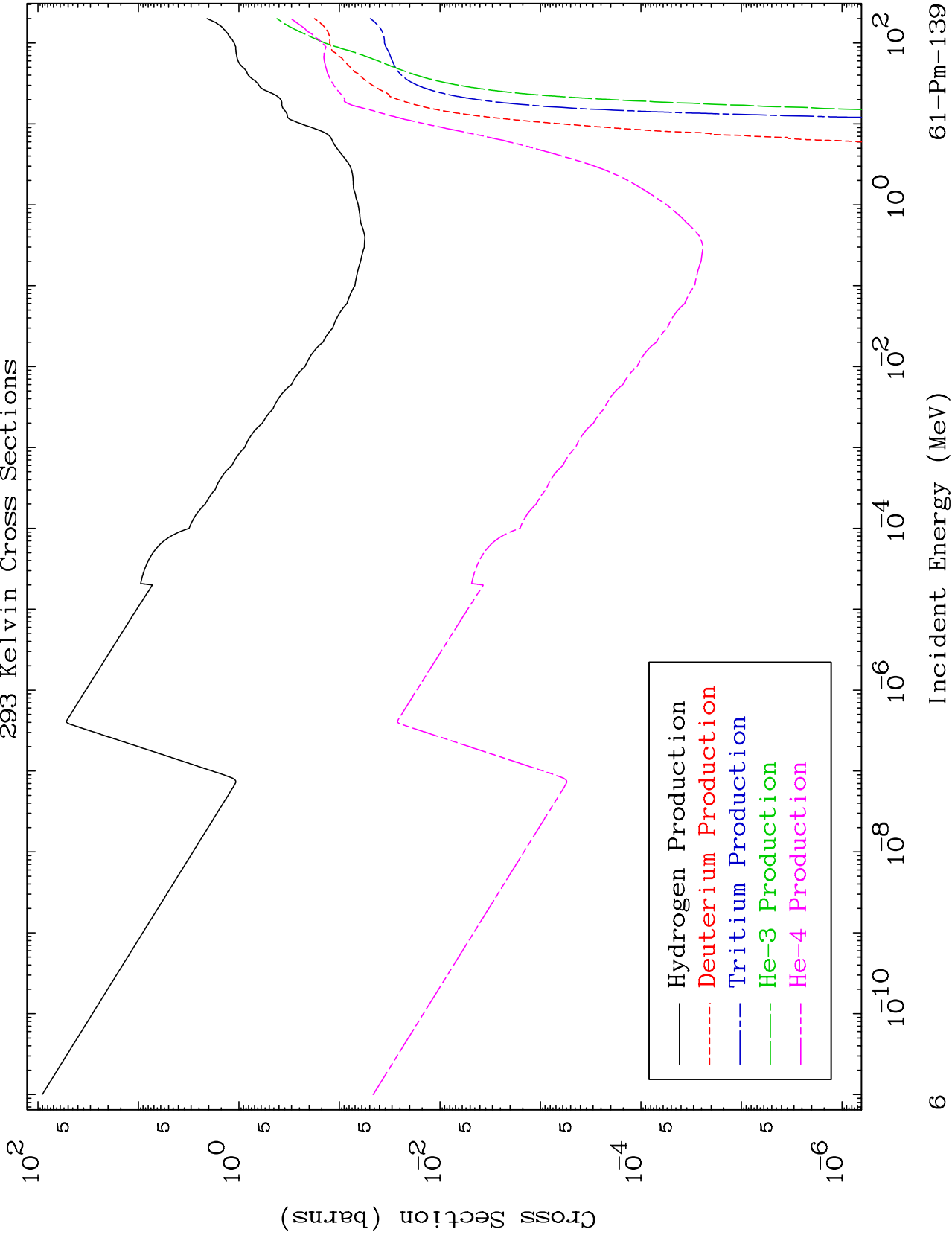
Charged Particle
293 Kelvin Cross Sections

61-Pm-139



61-Pm-139

Incident Energy (MeV)

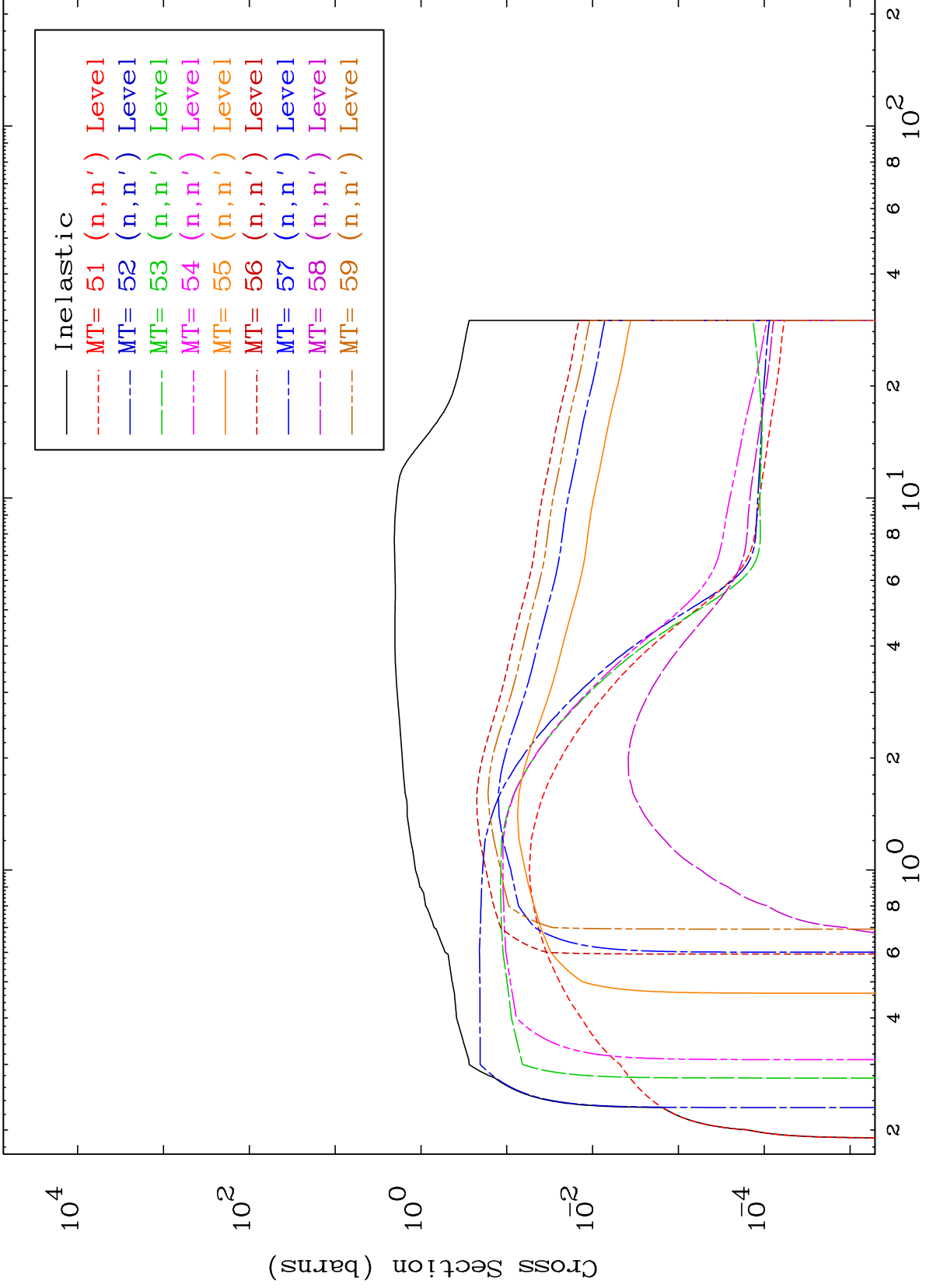


MAT 6125

(n,n') Level

61-Pm-139

293 Kelvin Cross Sections



7

Incident Energy (MeV)

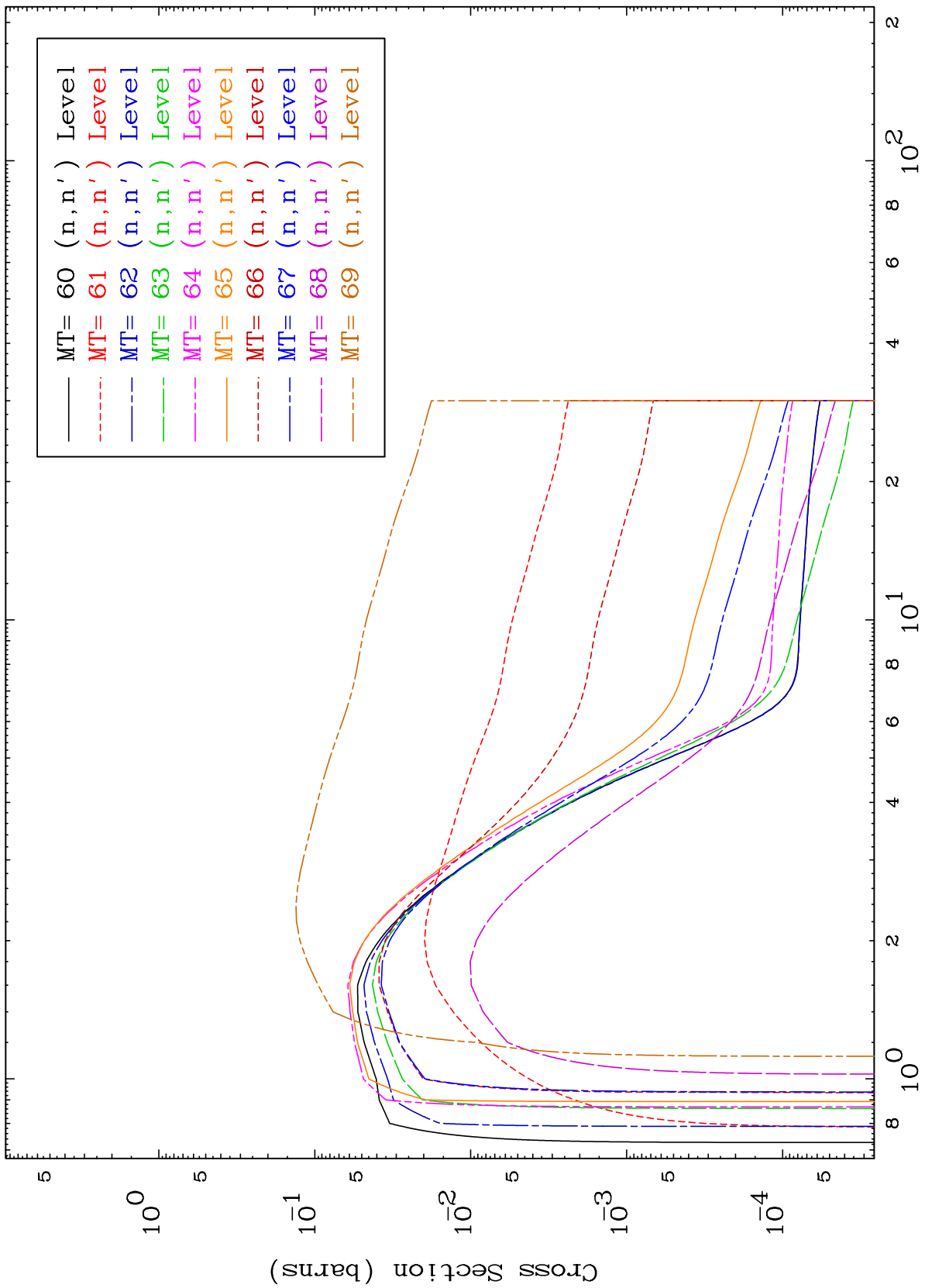
61-Pm-139

MAT 6125

(n,n') Level

61-Pm-139

293 Kelvin Cross Sections

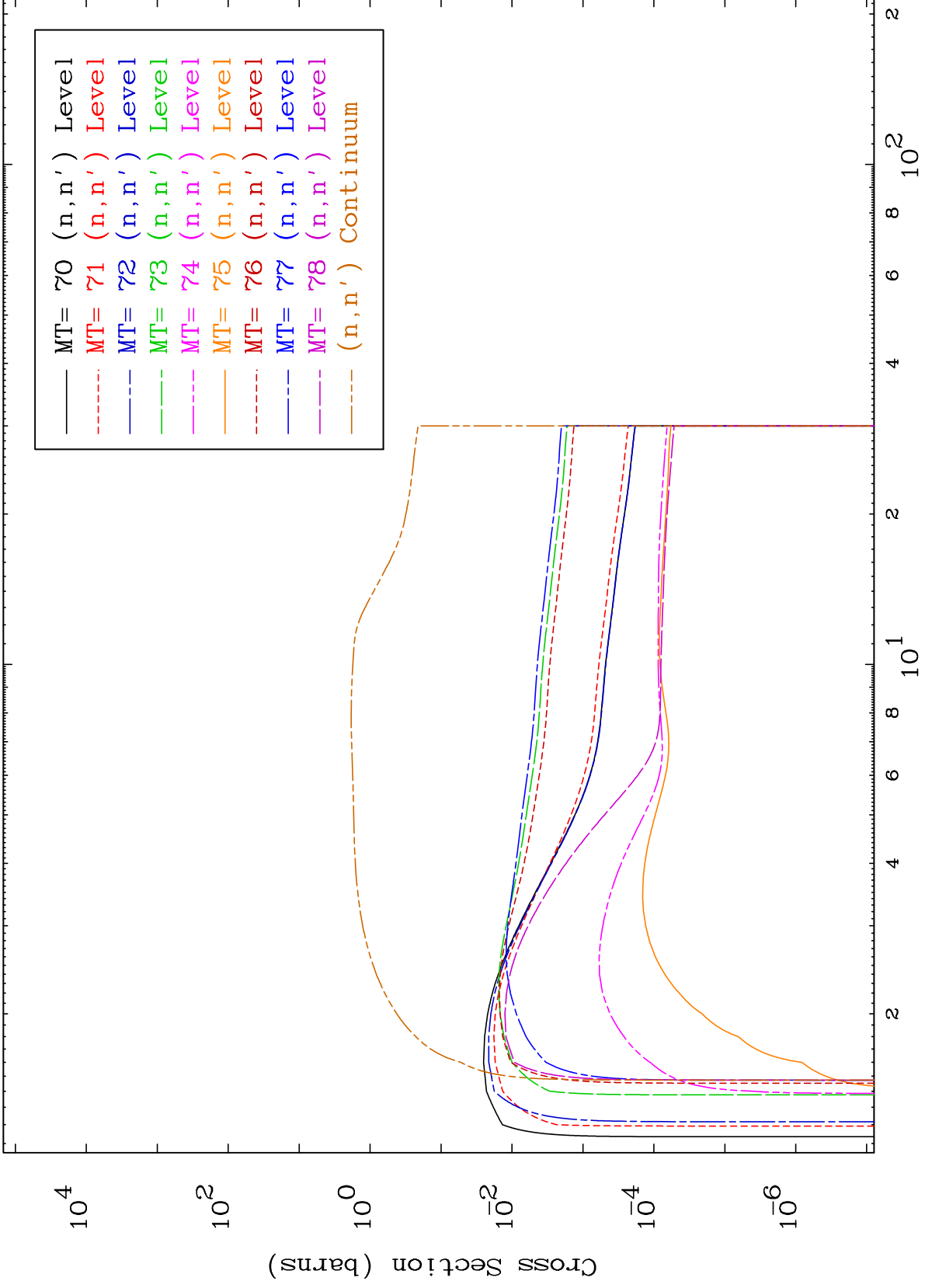


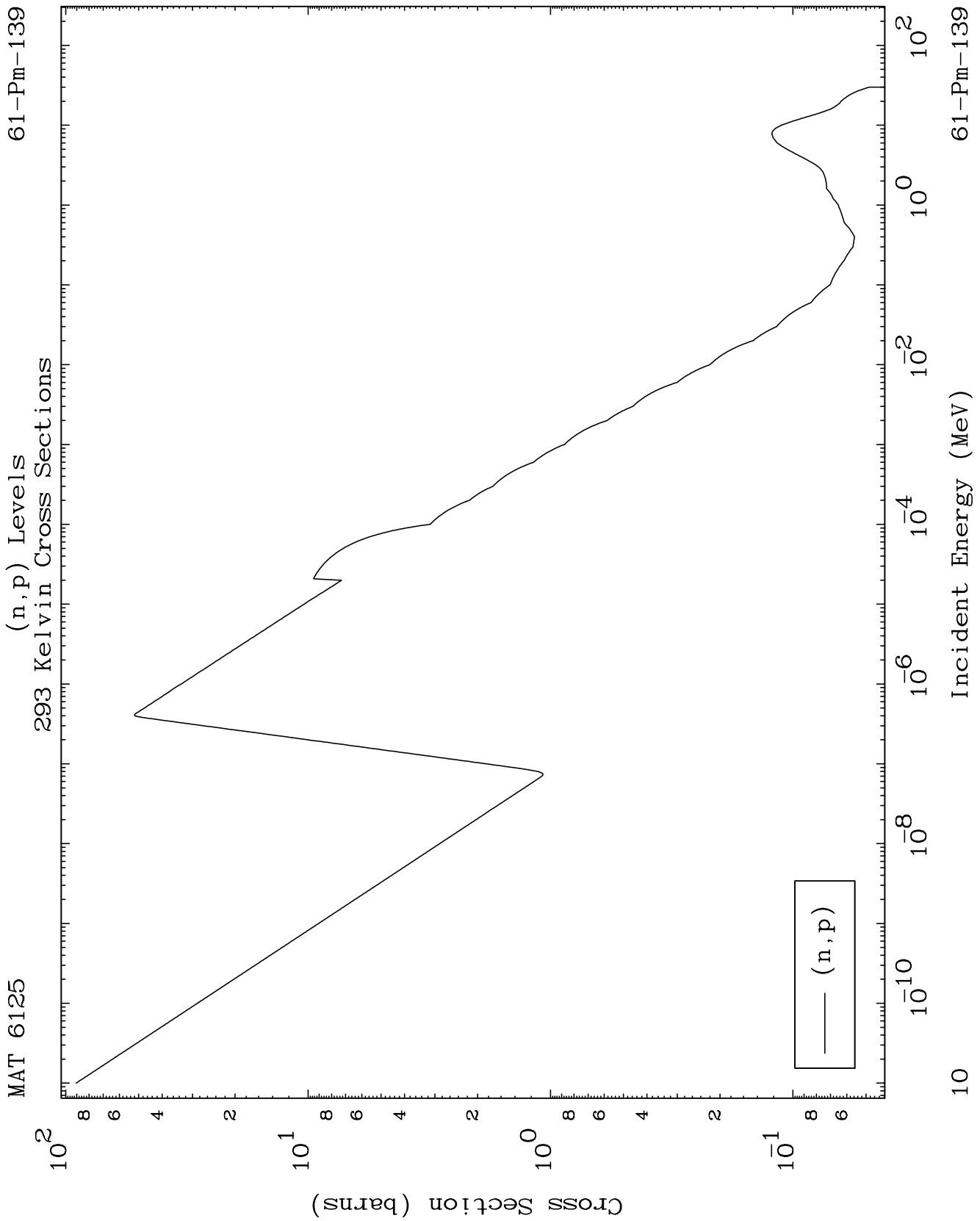
8

Incident Energy (MeV)

61-Pm-139

293 Kelvin Cross Sections

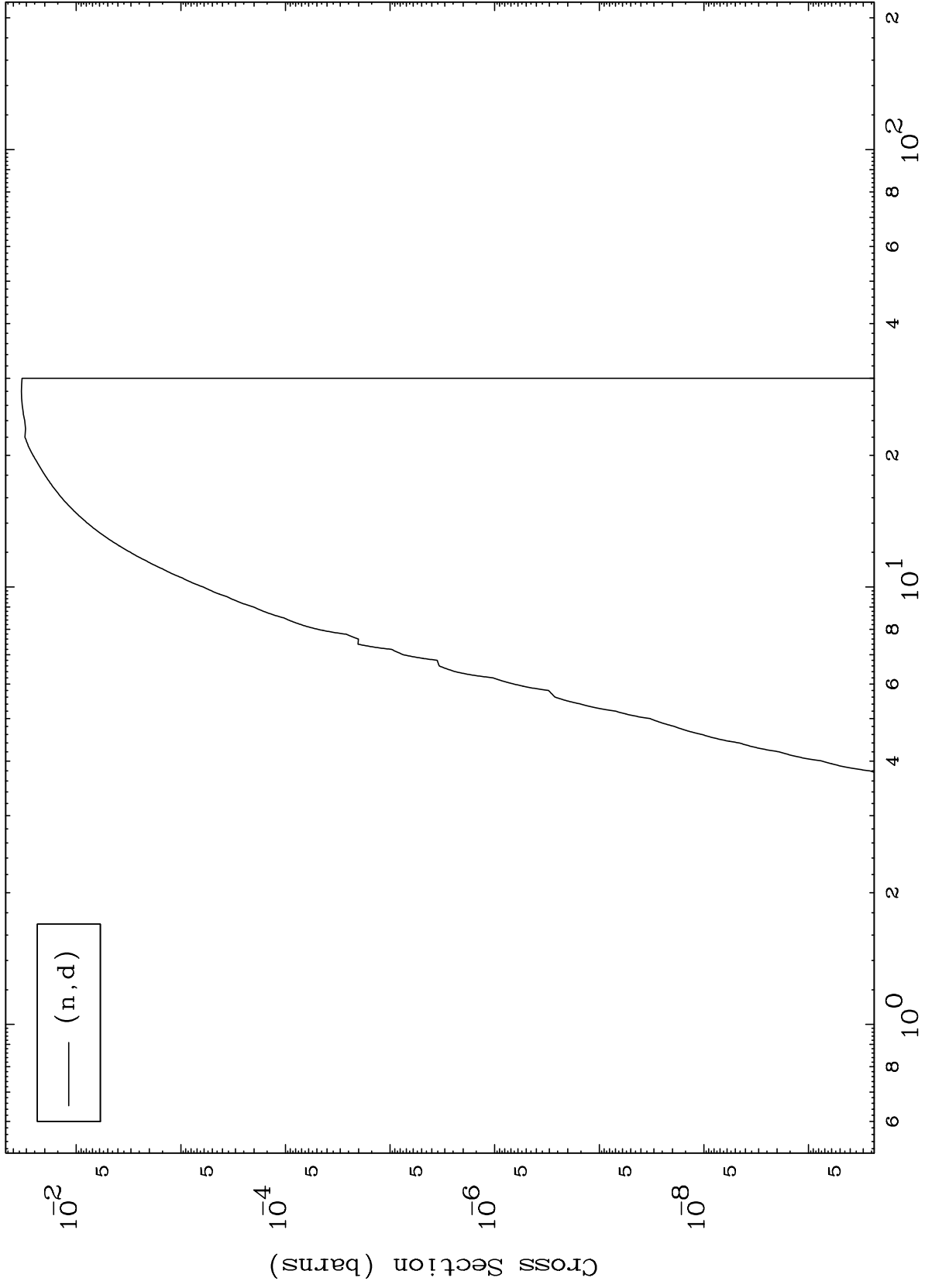




MAT 6125

(n,d) Levels
293 Kelvin Cross Sections

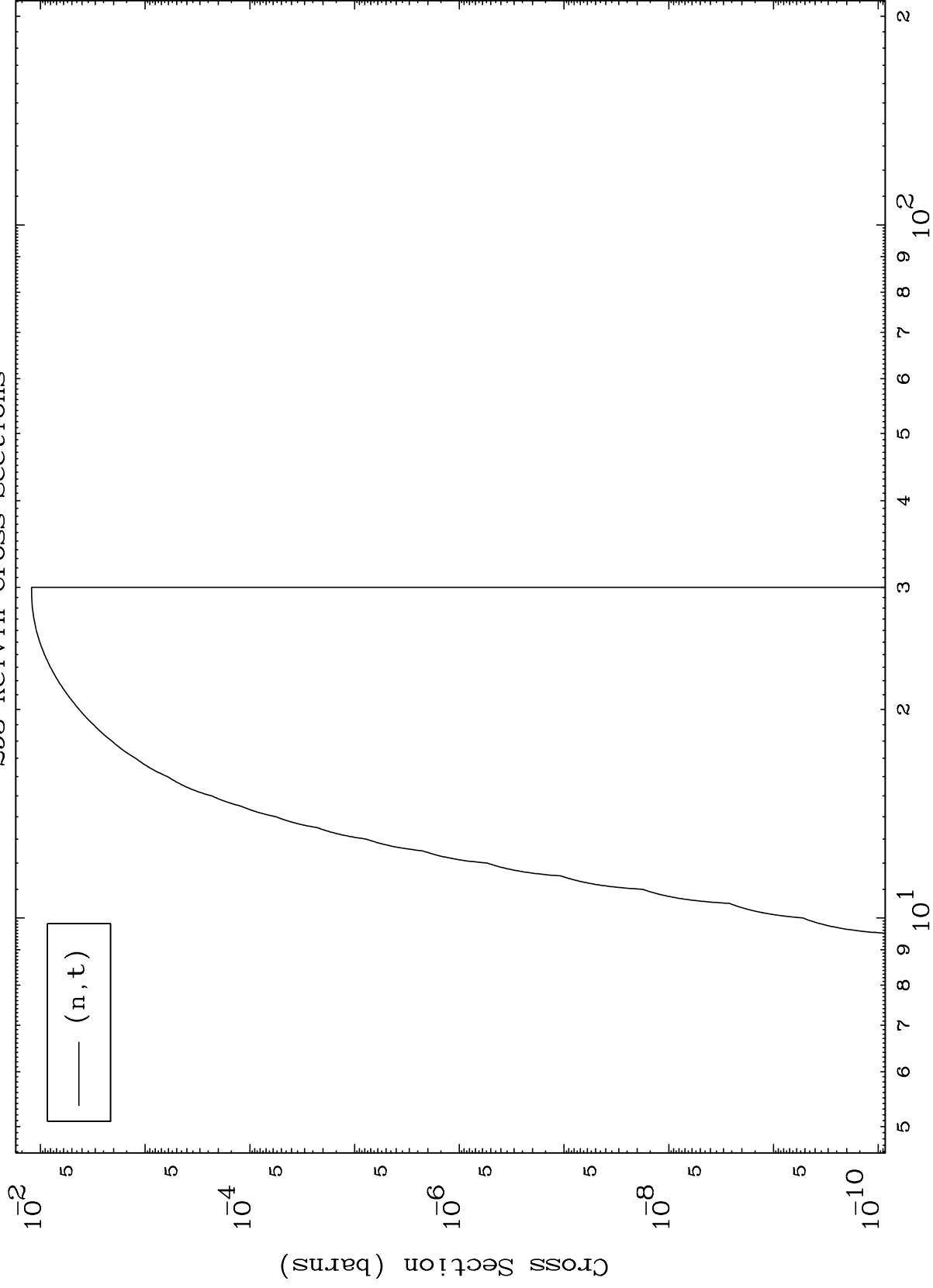
61-Pm-139



MAT 6125

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-139



12

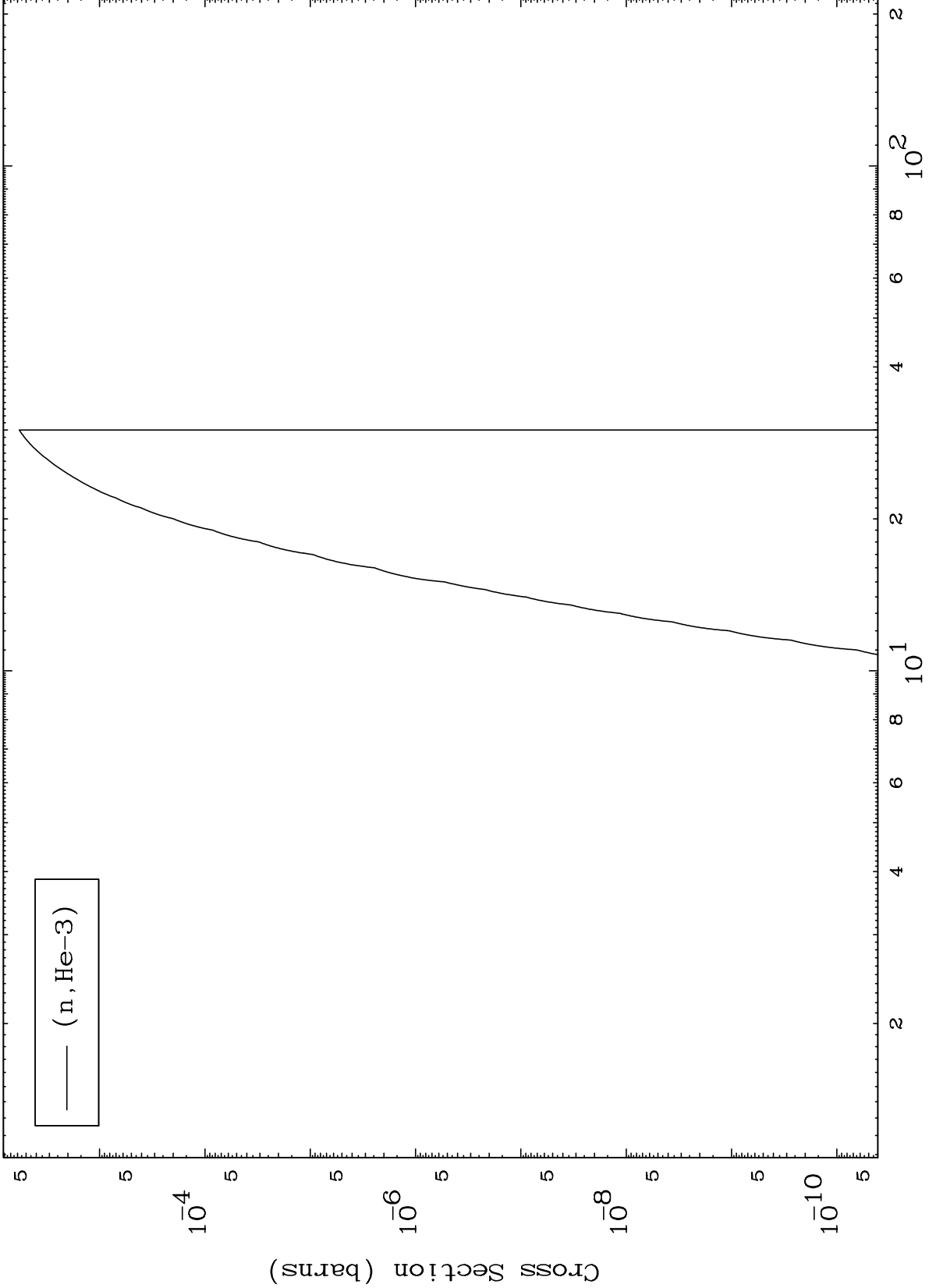
Incident Energy (MeV)

61-Pm-139

MAT 6125

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-139



13

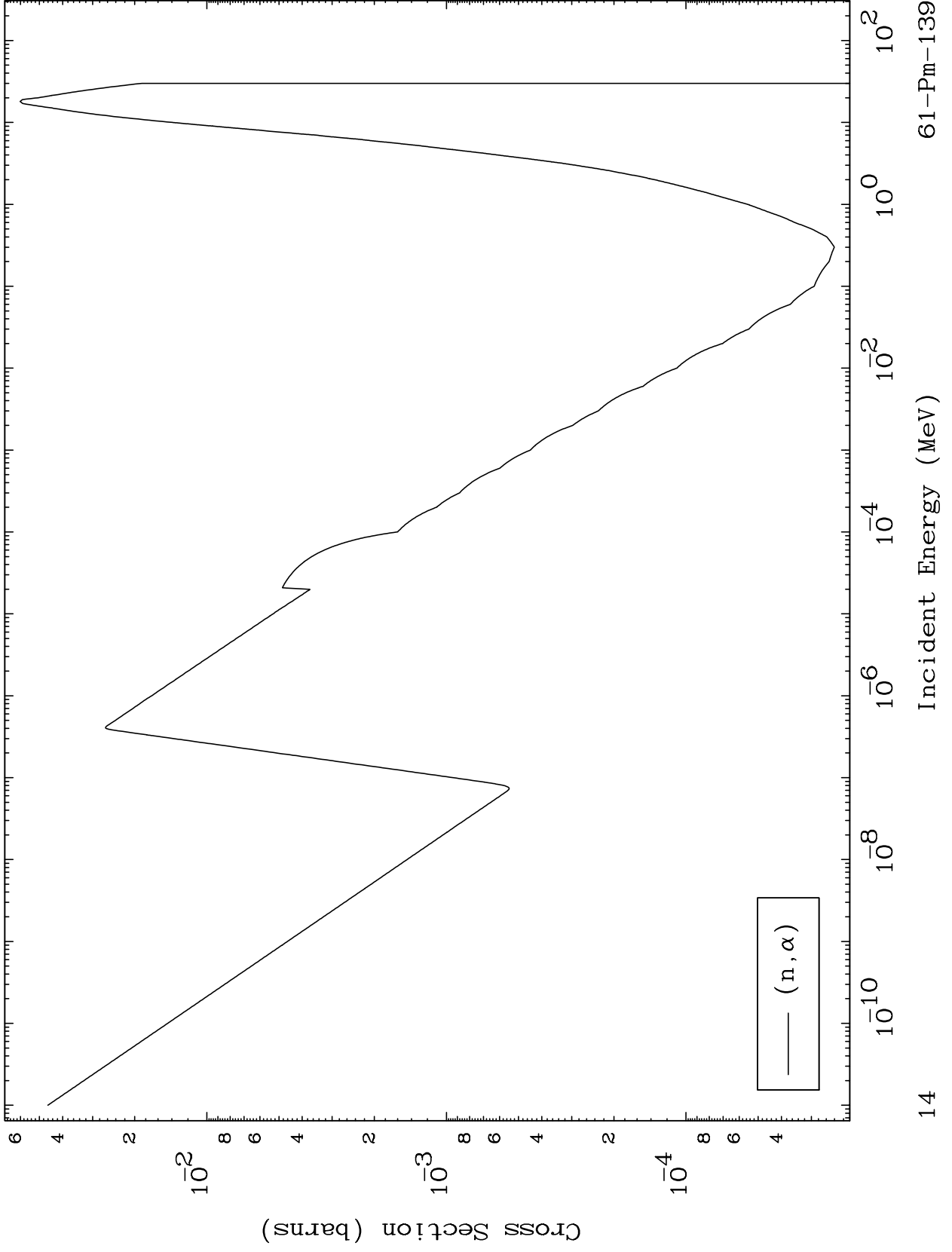
Incident Energy (MeV)

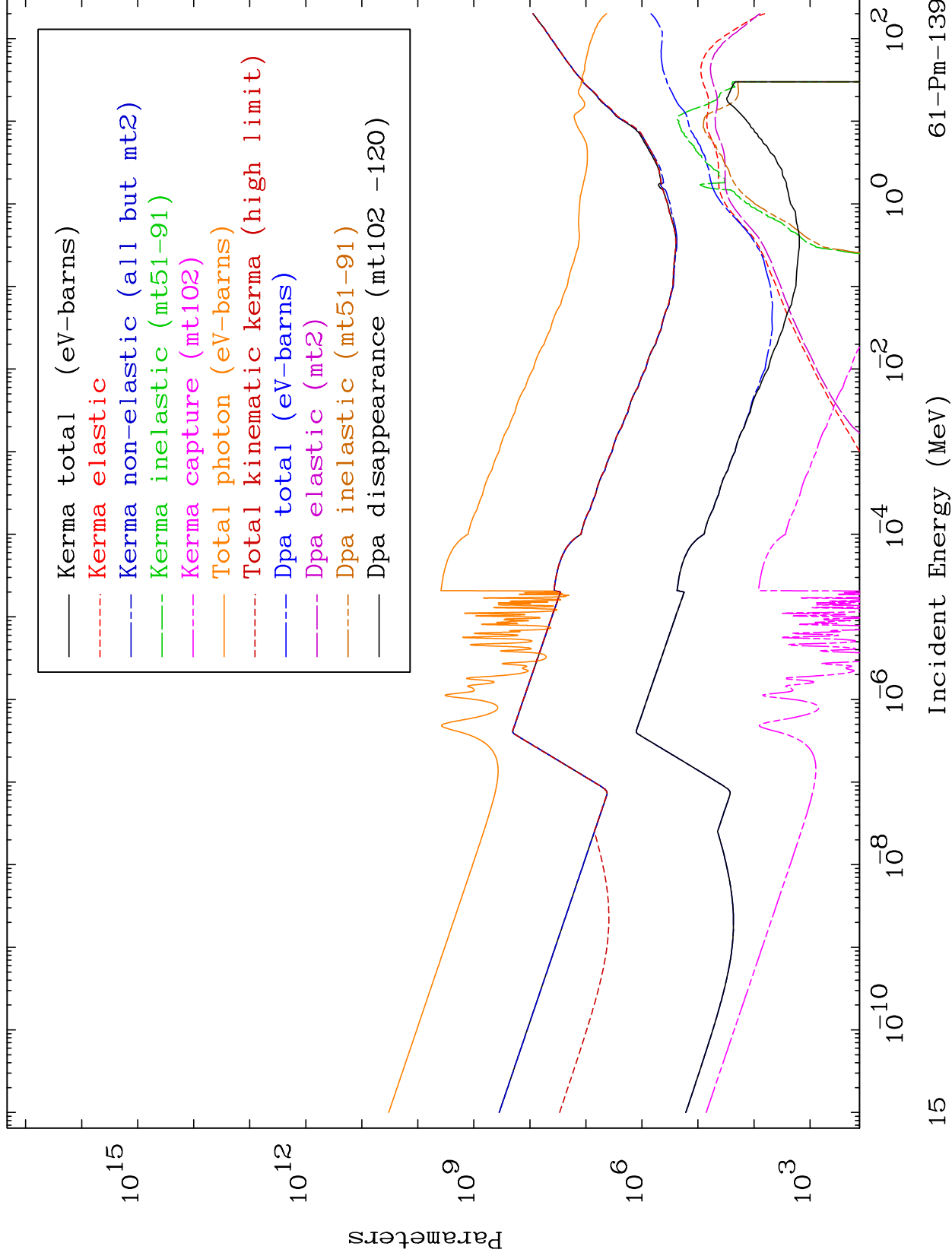
61-Pm-139

MAT 6125

(n,α) Levels
293 Kelvin Cross Sections

61-Pm-139

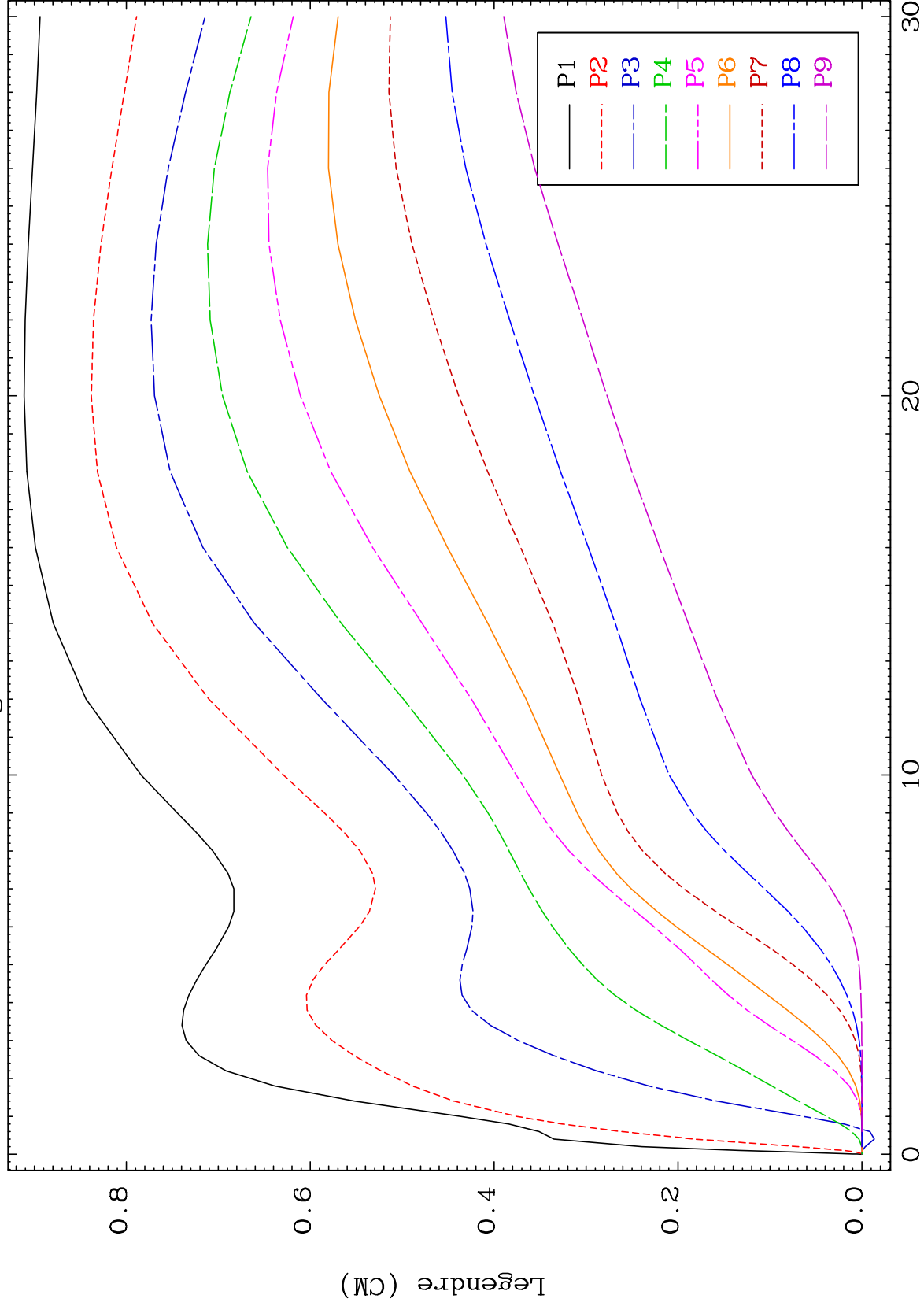




MAT 6125

Elastic Legendre Coefficients

61-Pm-139



16

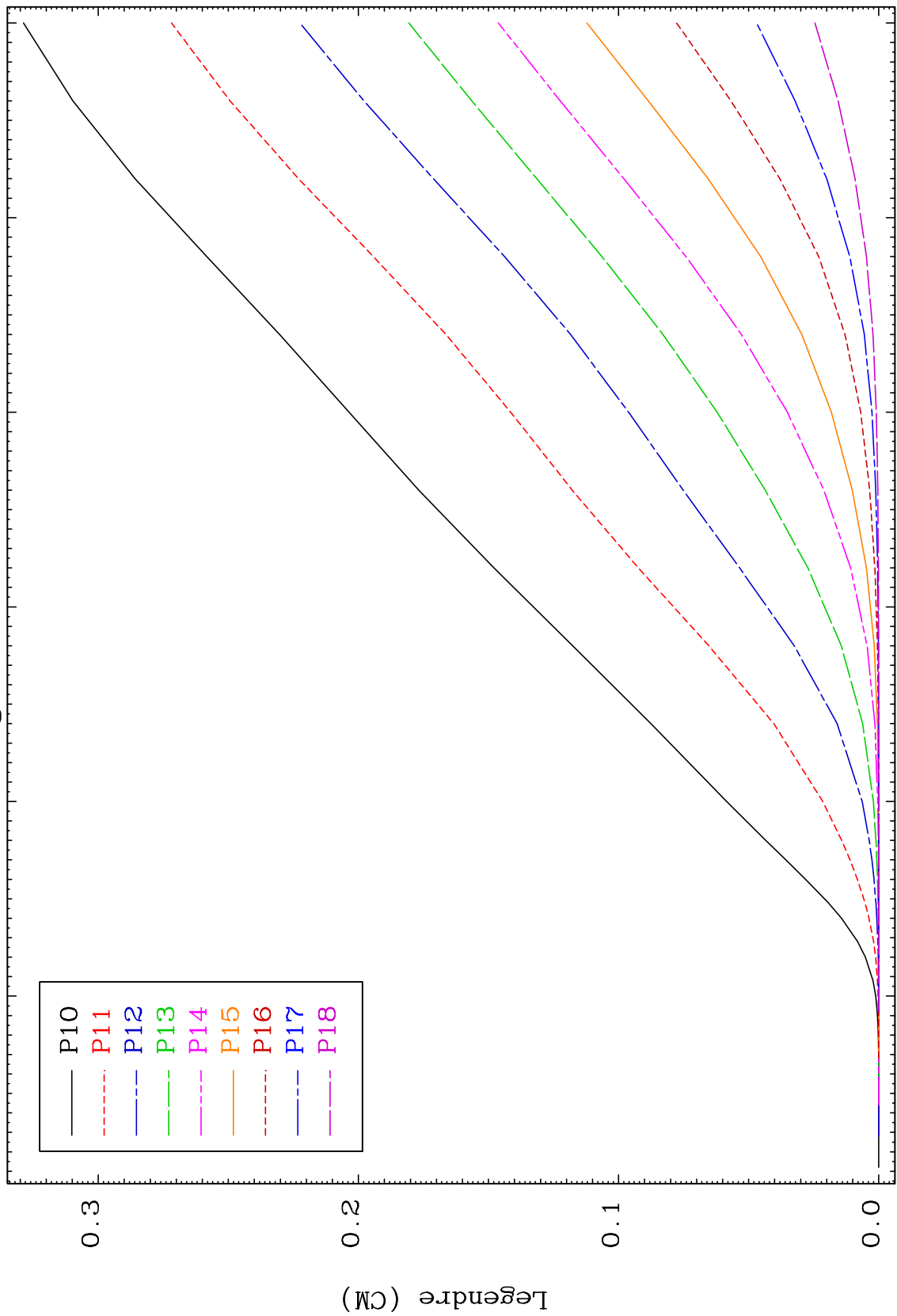
Incident Energy (MeV)

61-Pm-139

MAT 6125

Elastic Legendre Coefficients

61-Pm-139



17

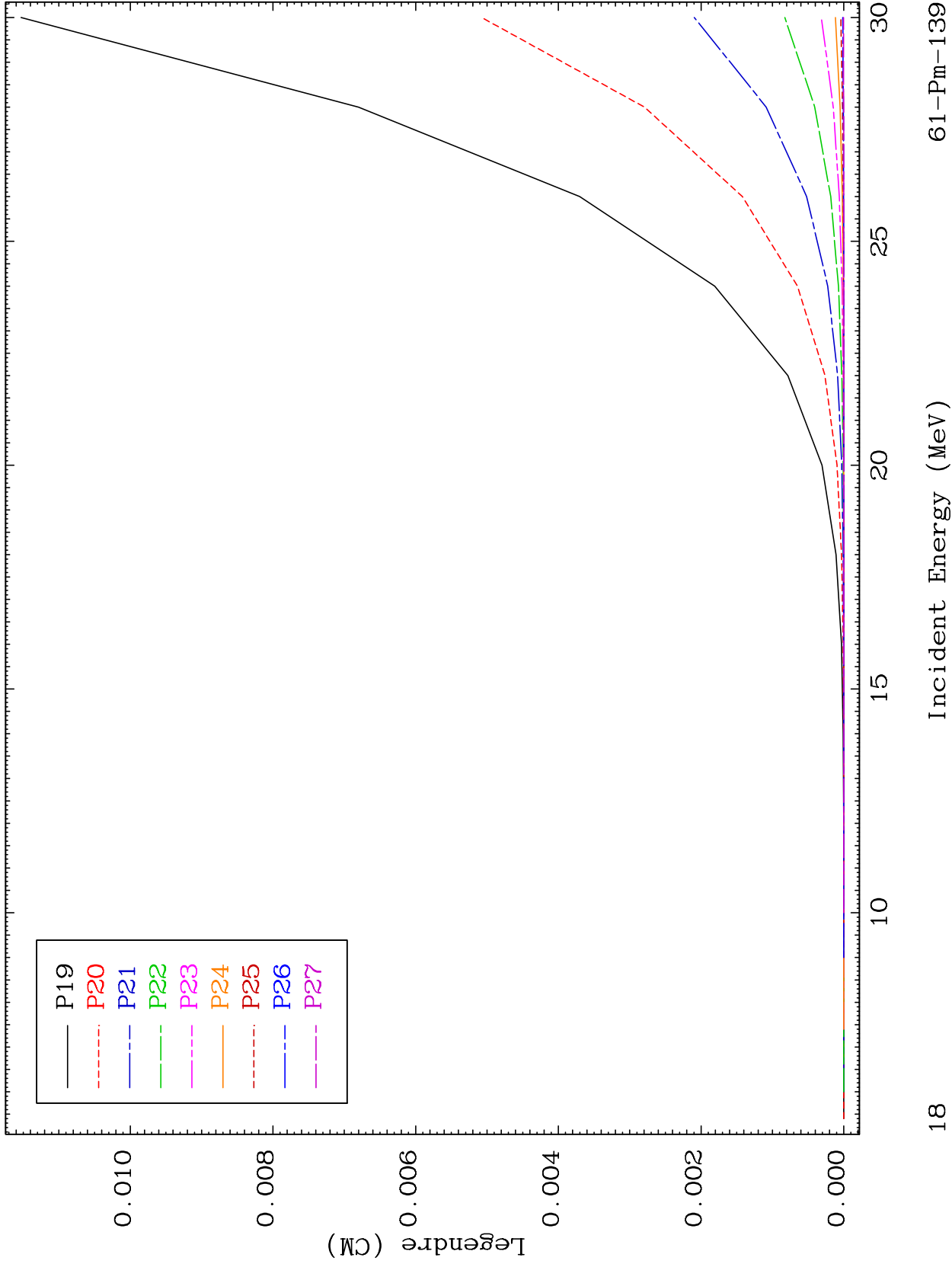
Incident Energy (MeV)

61-Pm-139

MAT 6125

Elastic Legendre Coefficients

61-Pm-139



18

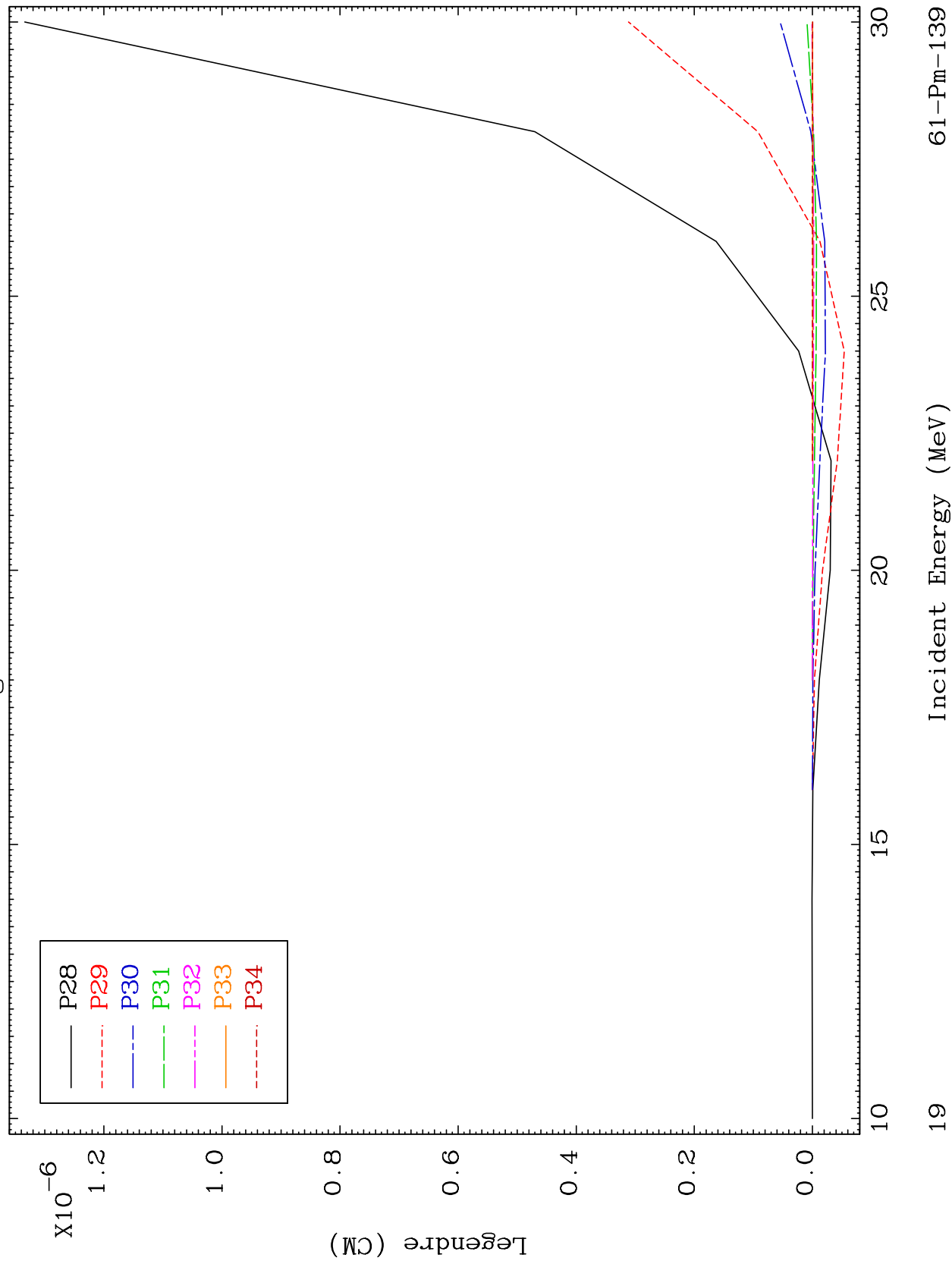
Incident Energy (MeV)

61-Pm-139

MAT 6125

Elastic Legendre Coefficients

61-Pm-139



19

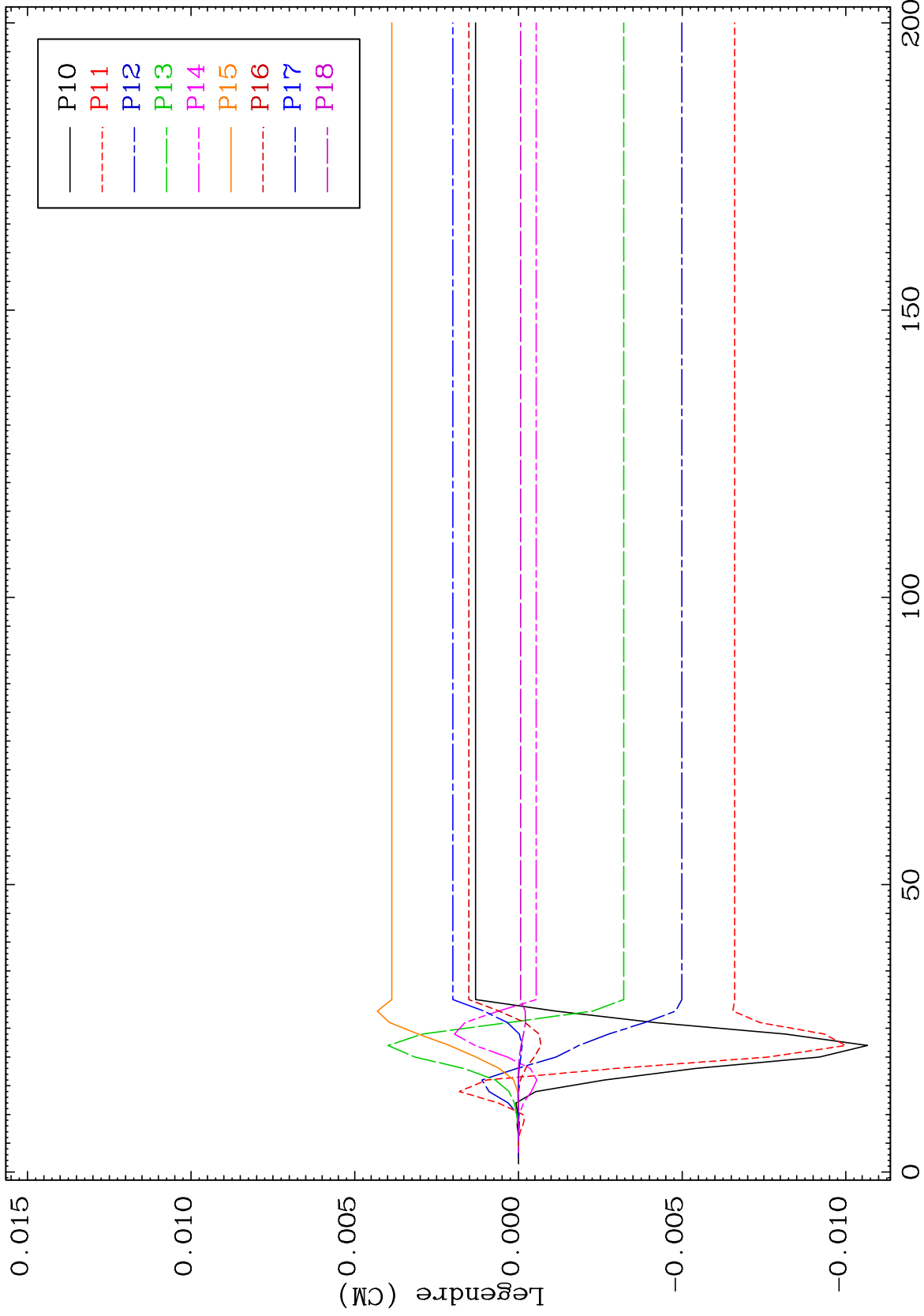
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

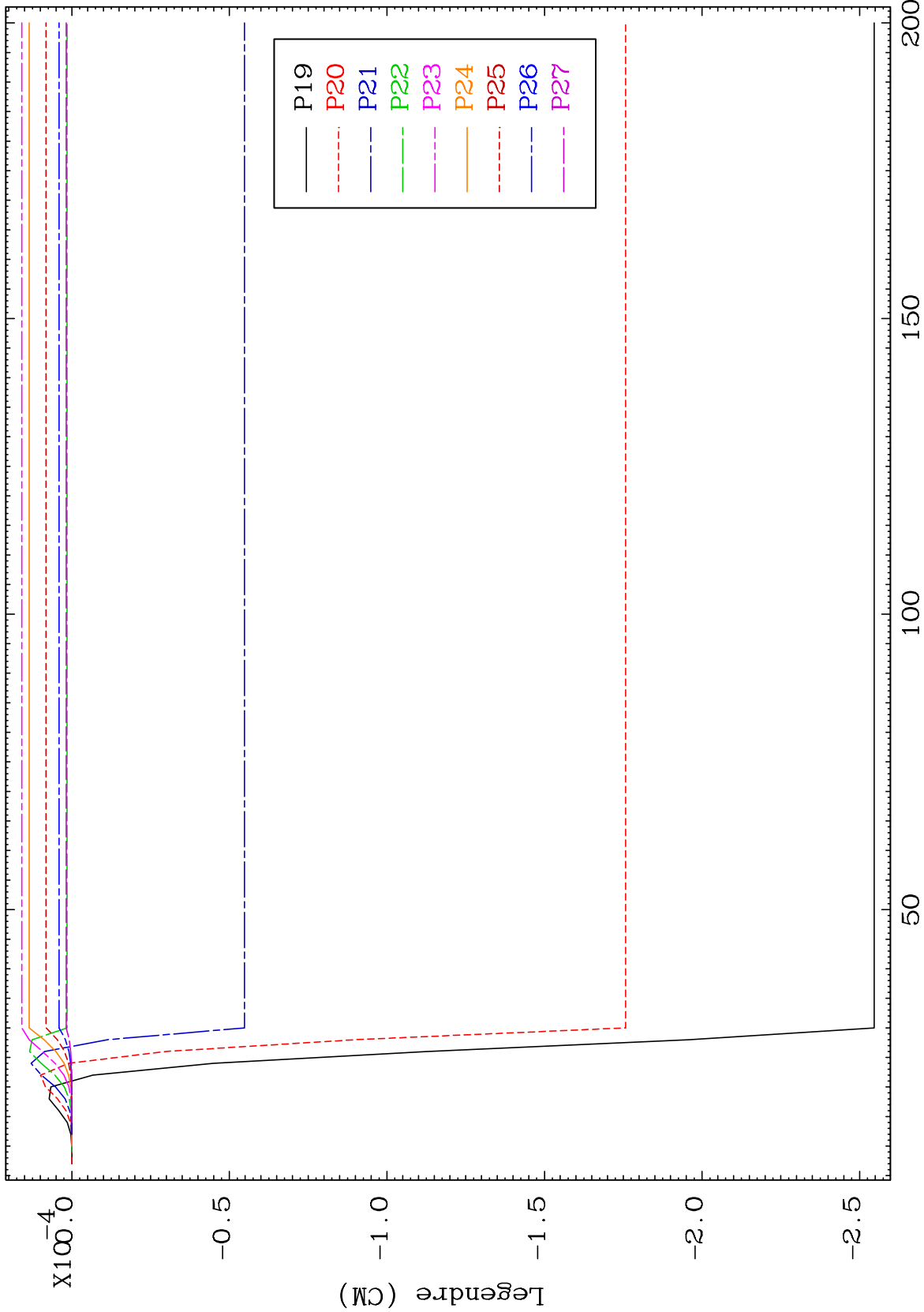
61-Pm-139



21

Incident Energy (MeV)

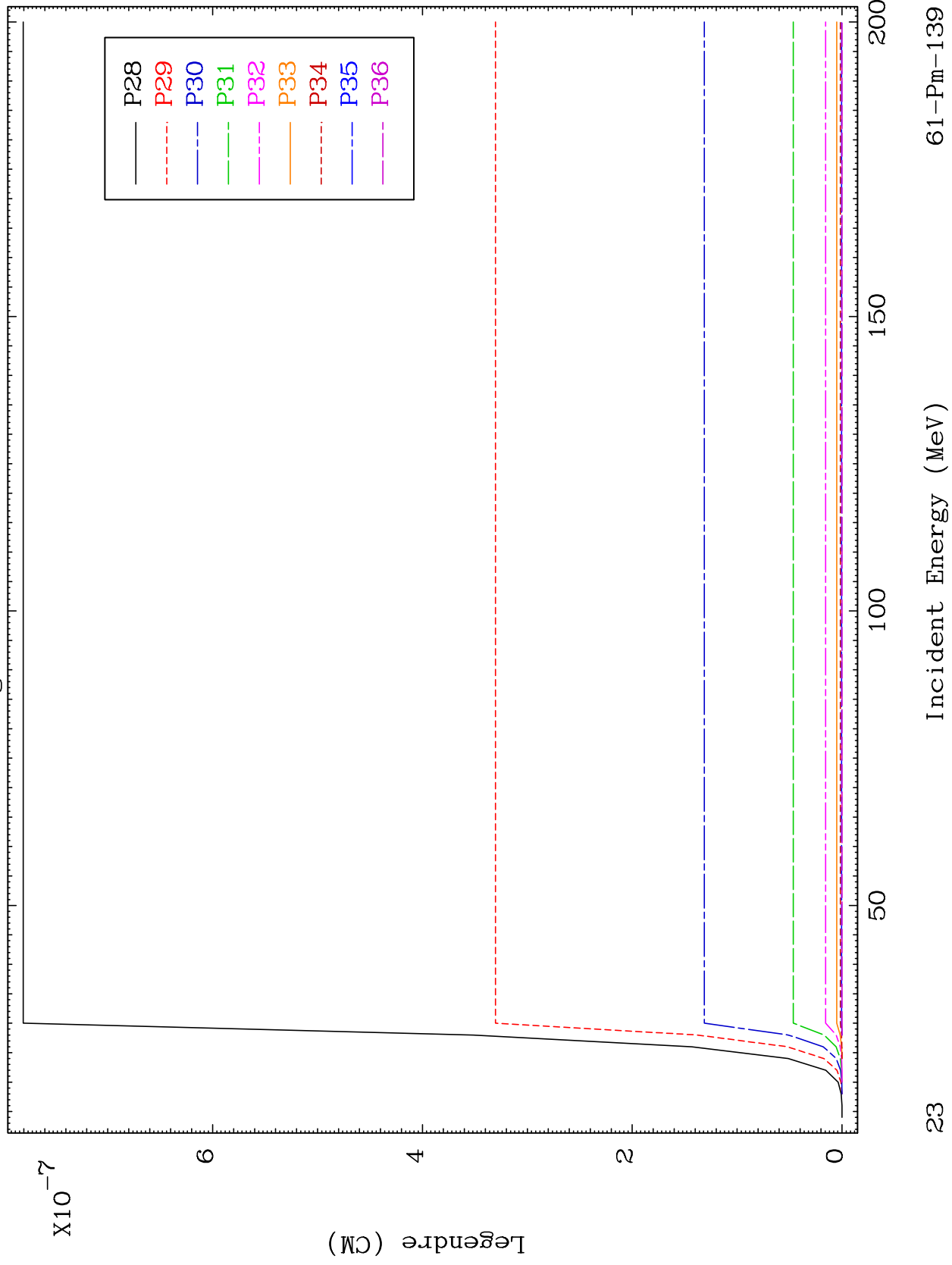
61-Pm-139



MAT 6125

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

61-Pm-139

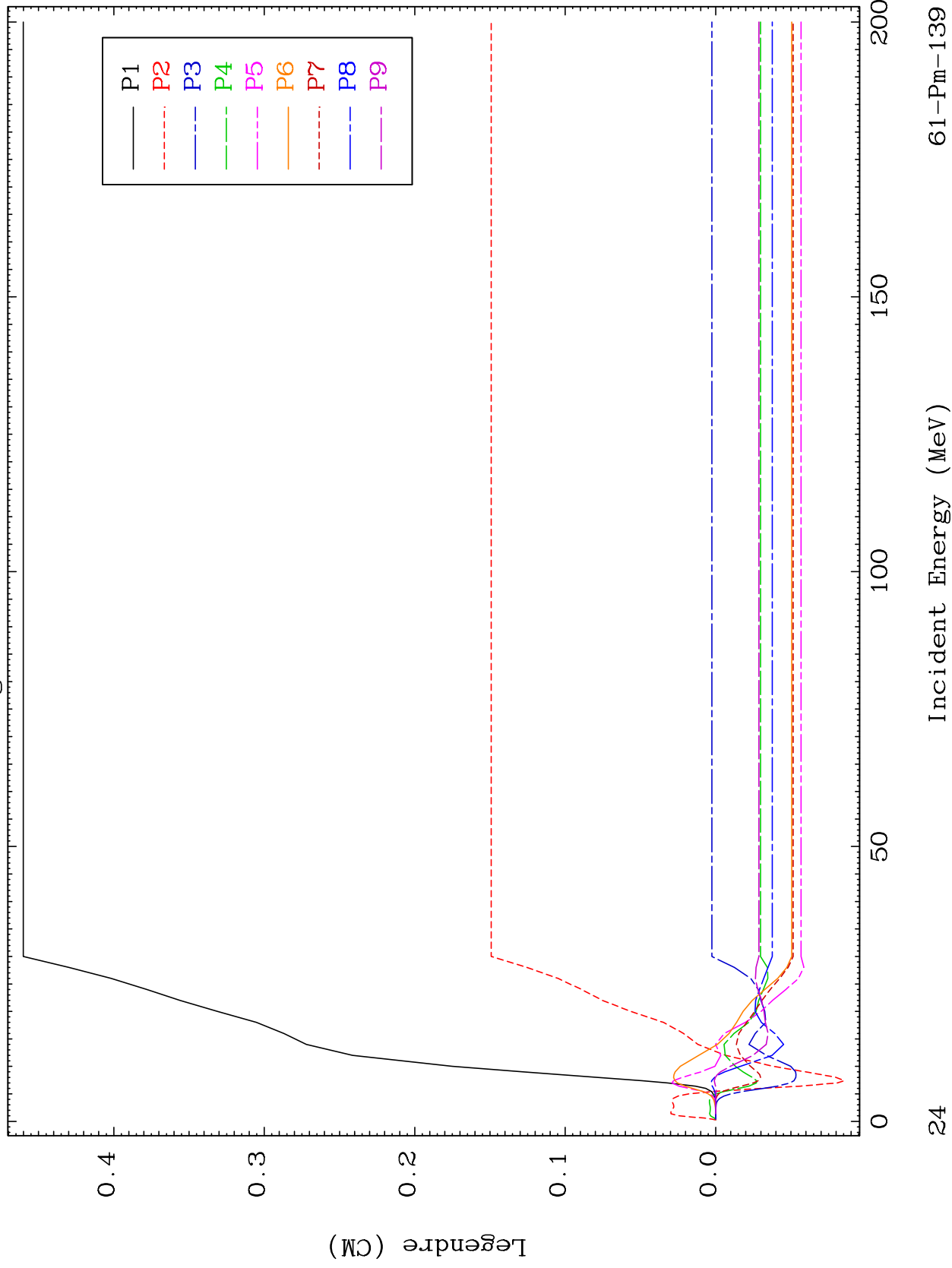


23

MAT 6125

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

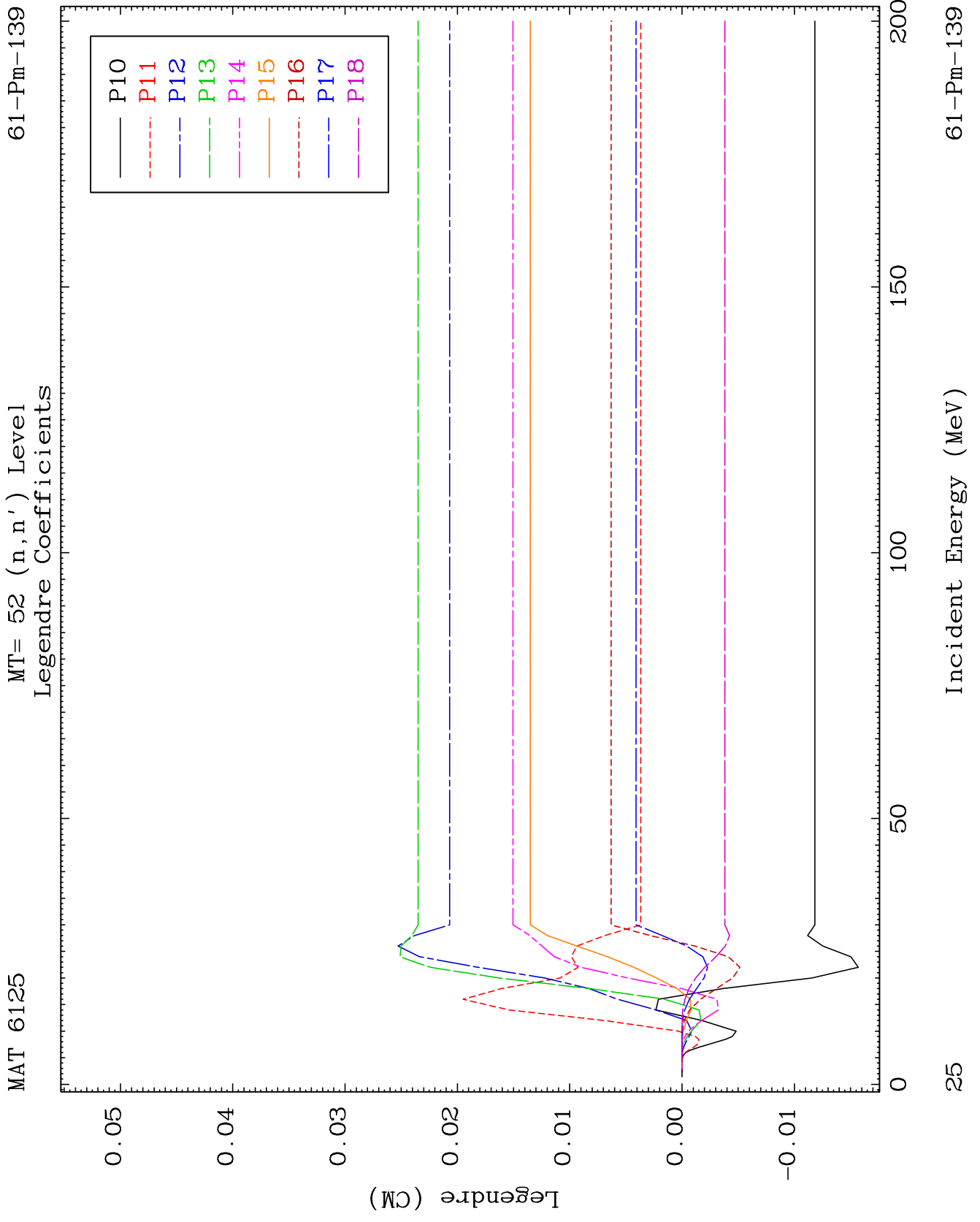
61-Pm-139



61-Pm-139

Incident Energy (MeV)

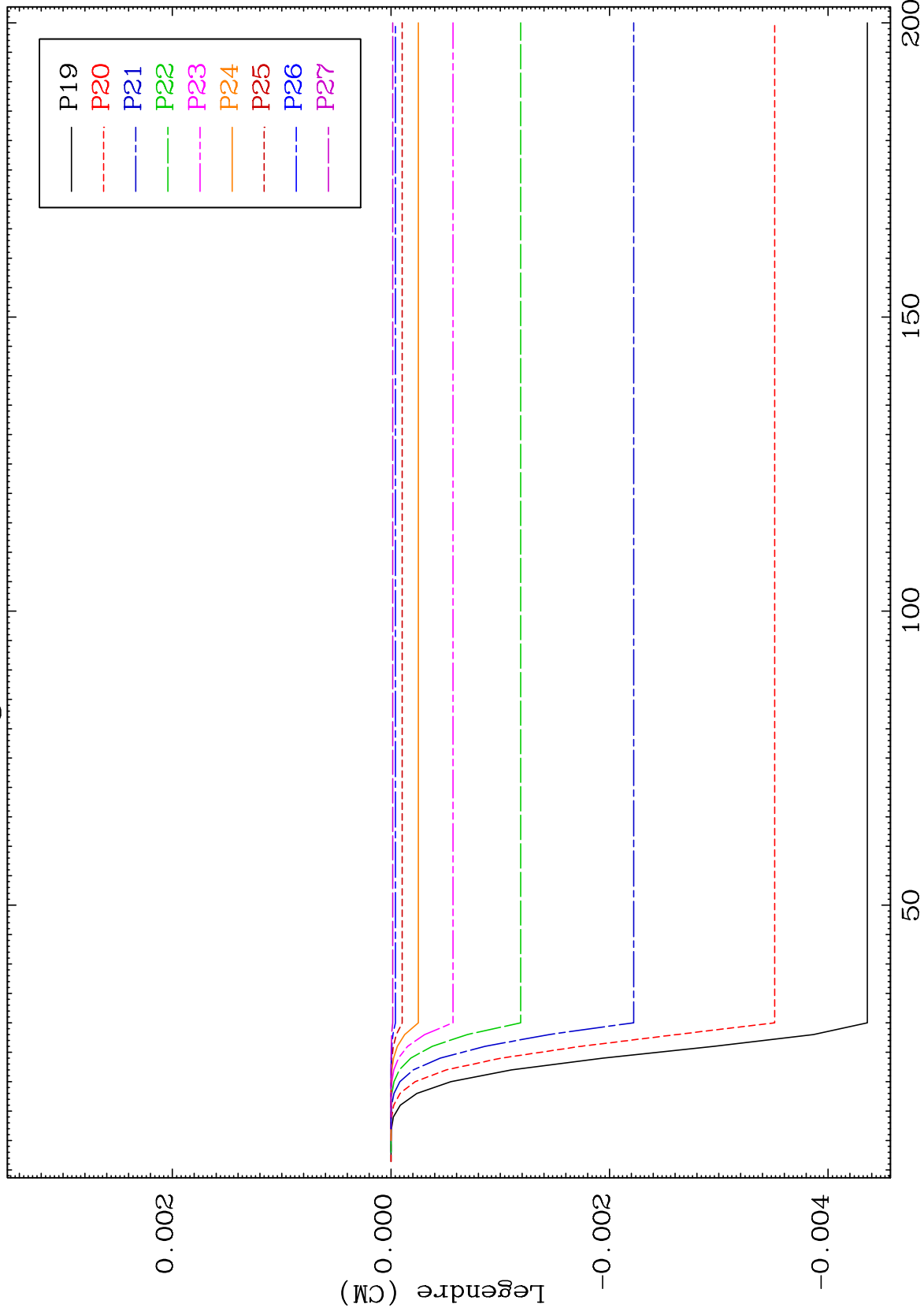
24



MAT 6125

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

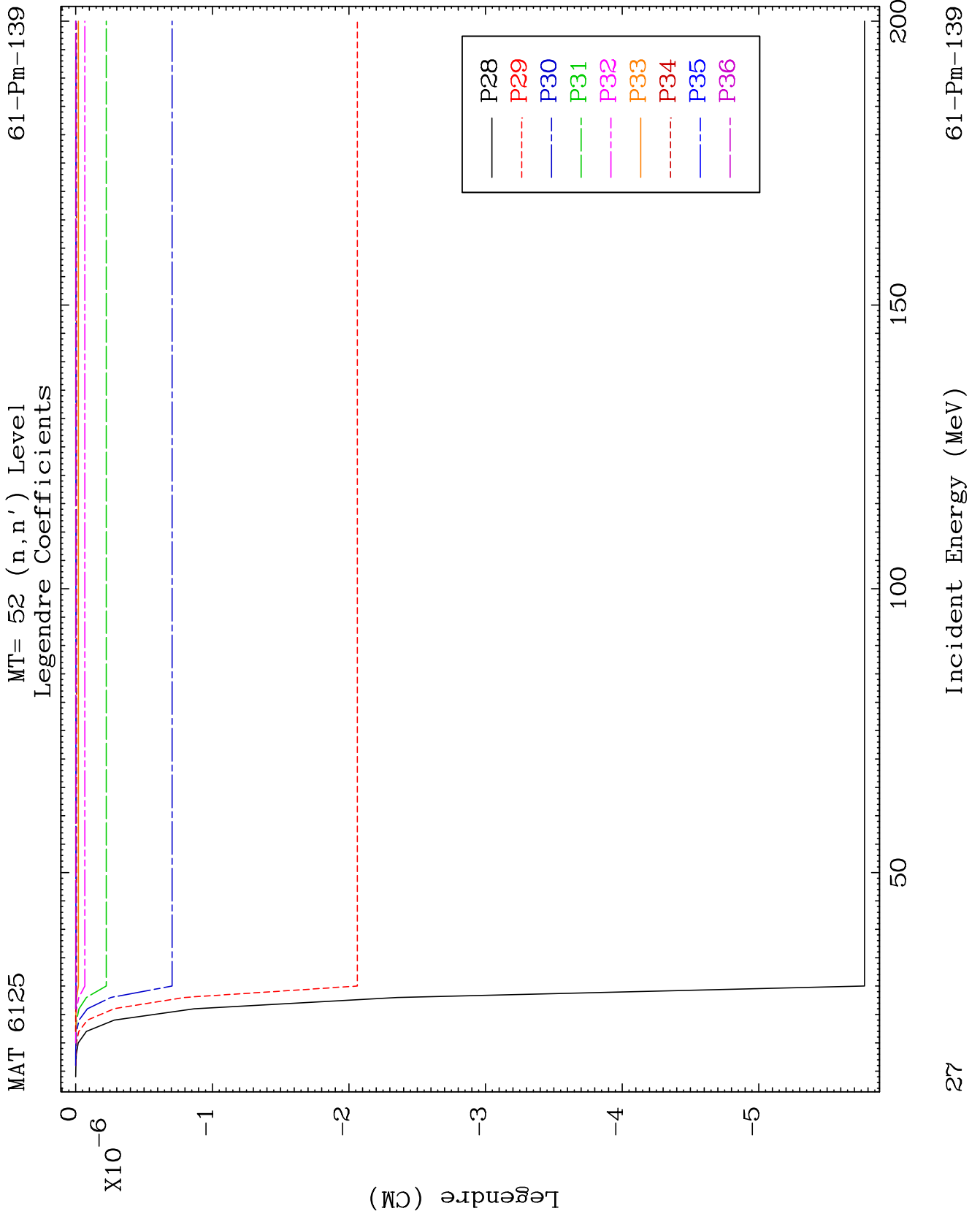
61-Pm-139



26

Incident Energy (MeV)

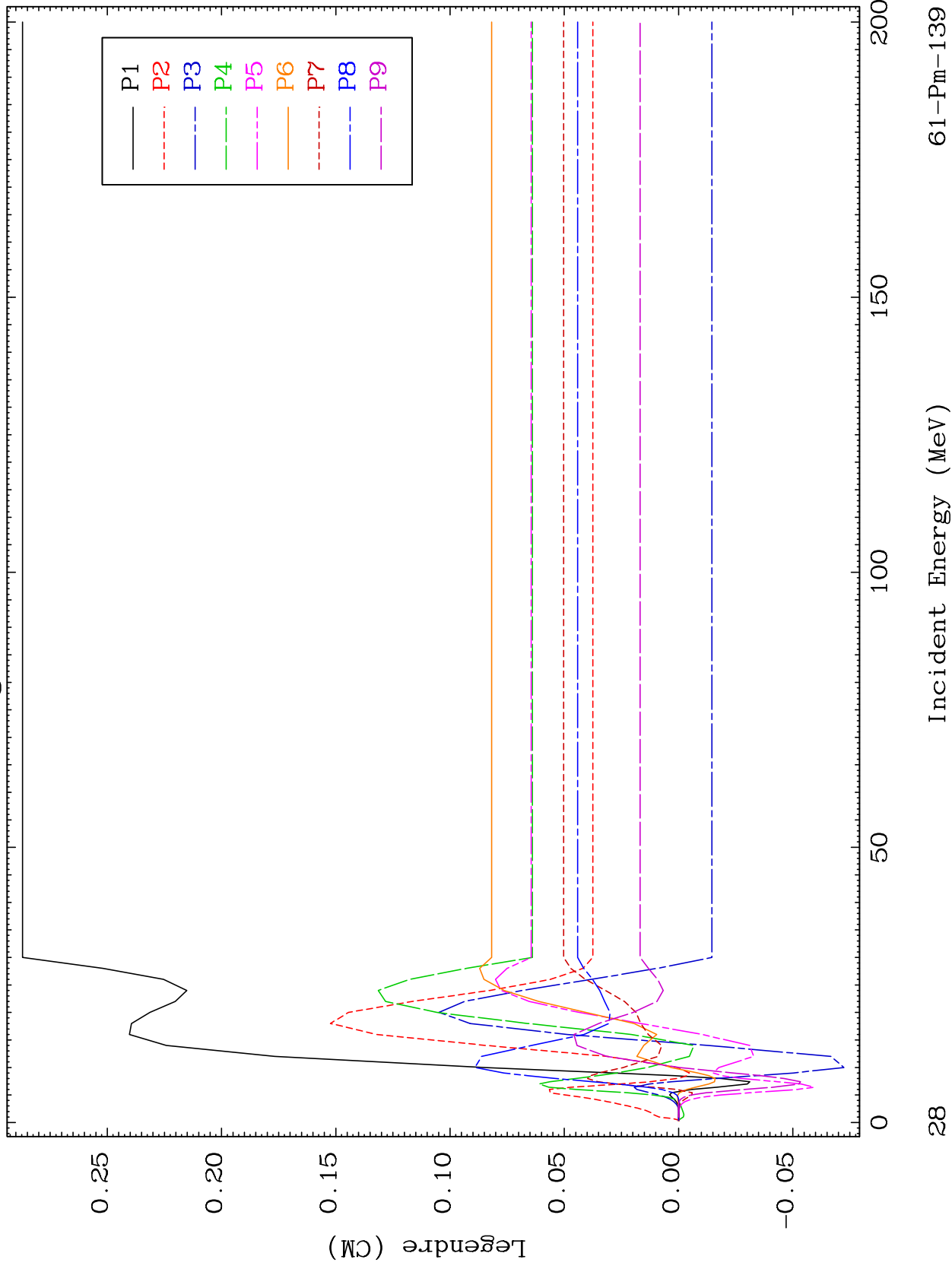
61-Pm-139



MAT 6125

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

61-Pm-139



61-Pm-139

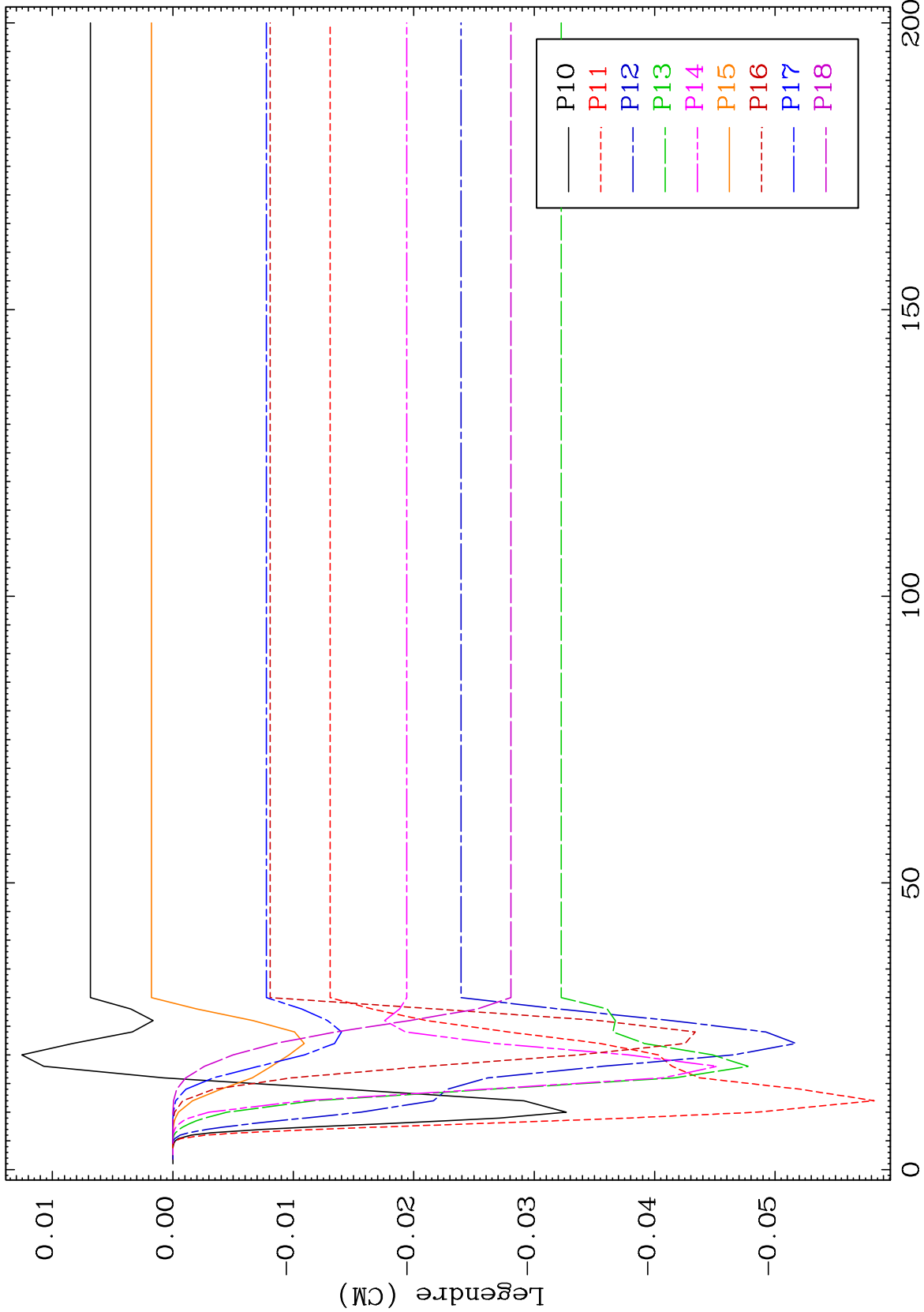
Incident Energy (MeV)

28

MAT 6125

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

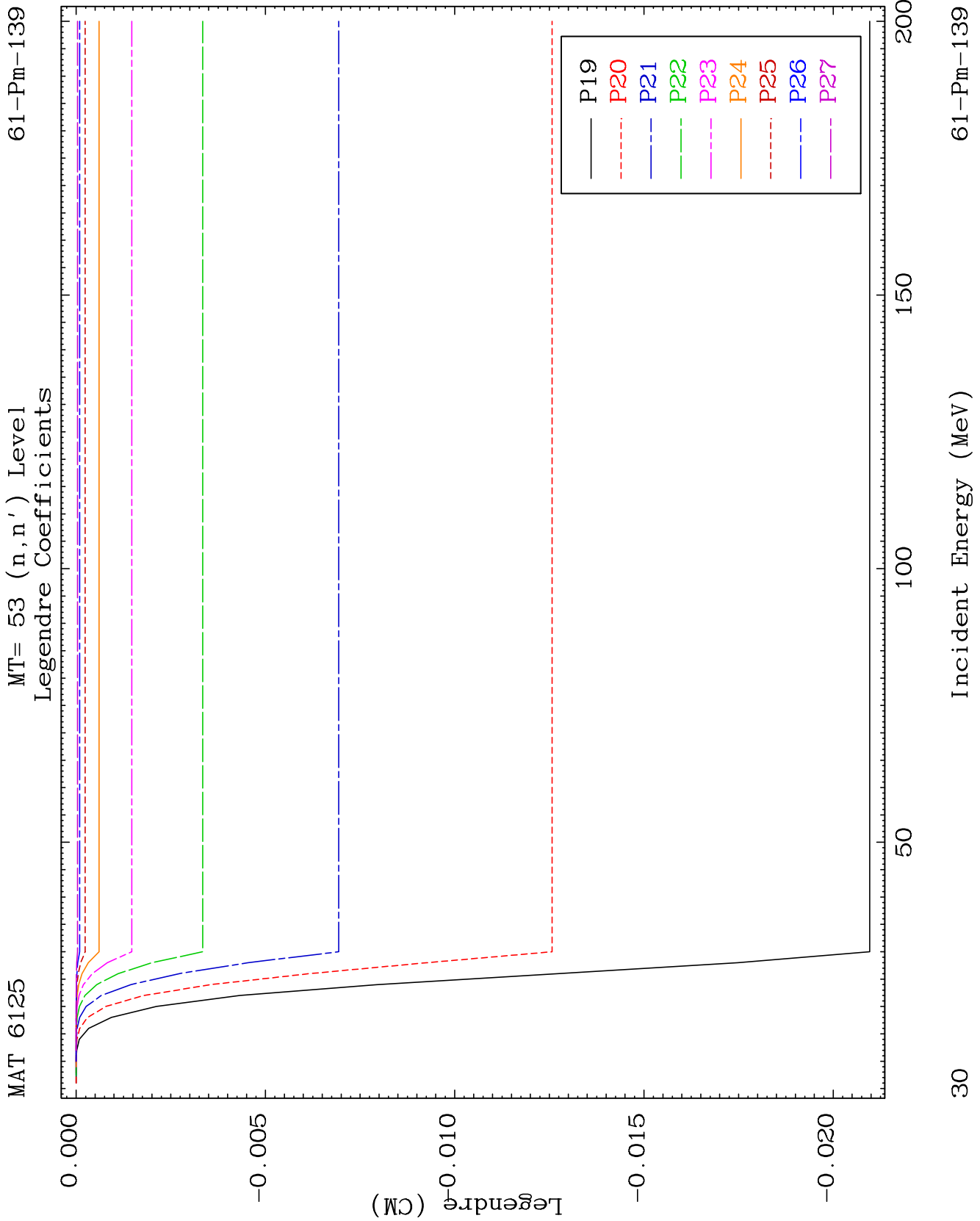
61-Pm-139



29

Incident Energy (MeV)

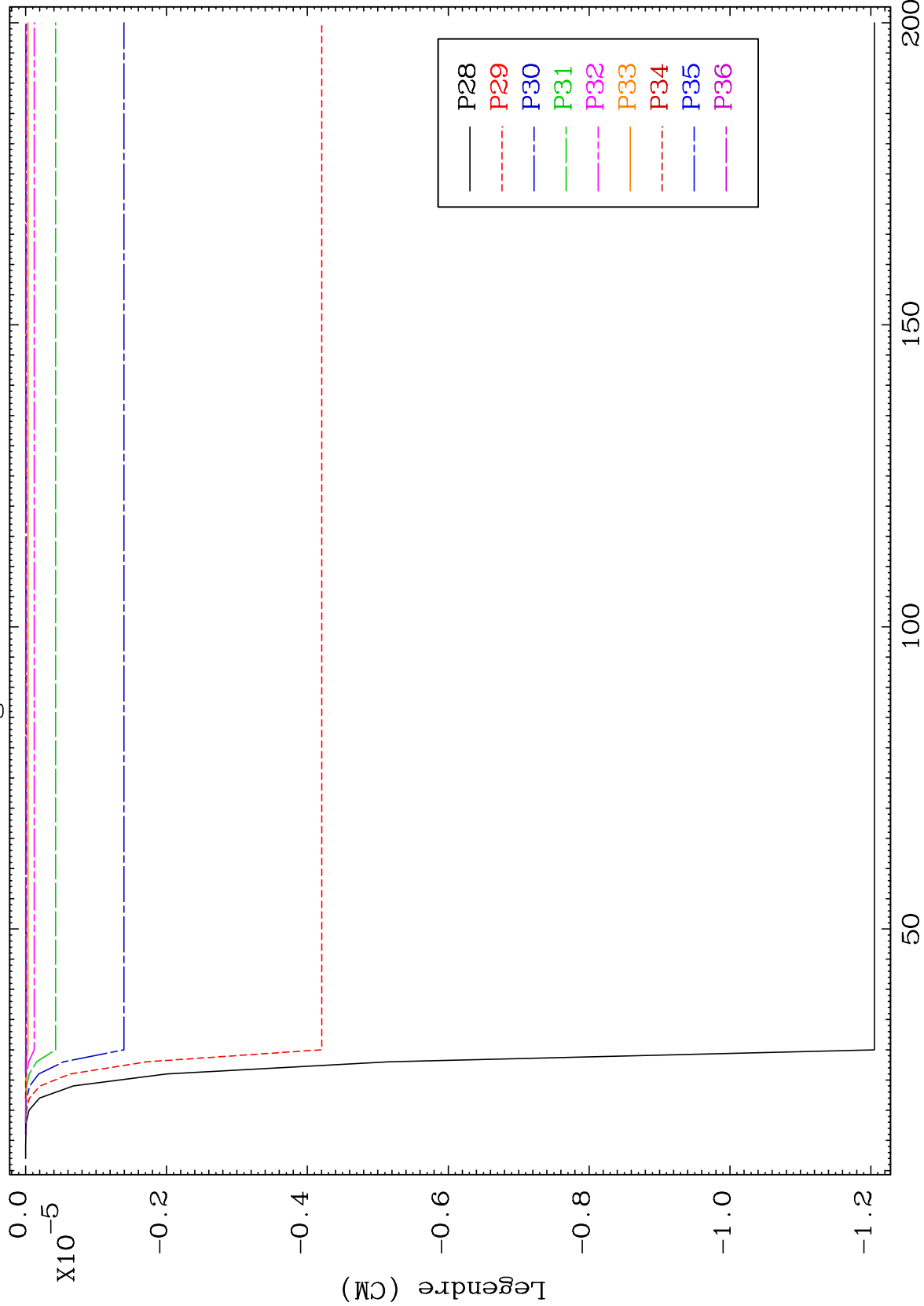
61-Pm-139



MAT 6125

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

61-Pm-139



61-Pm-139

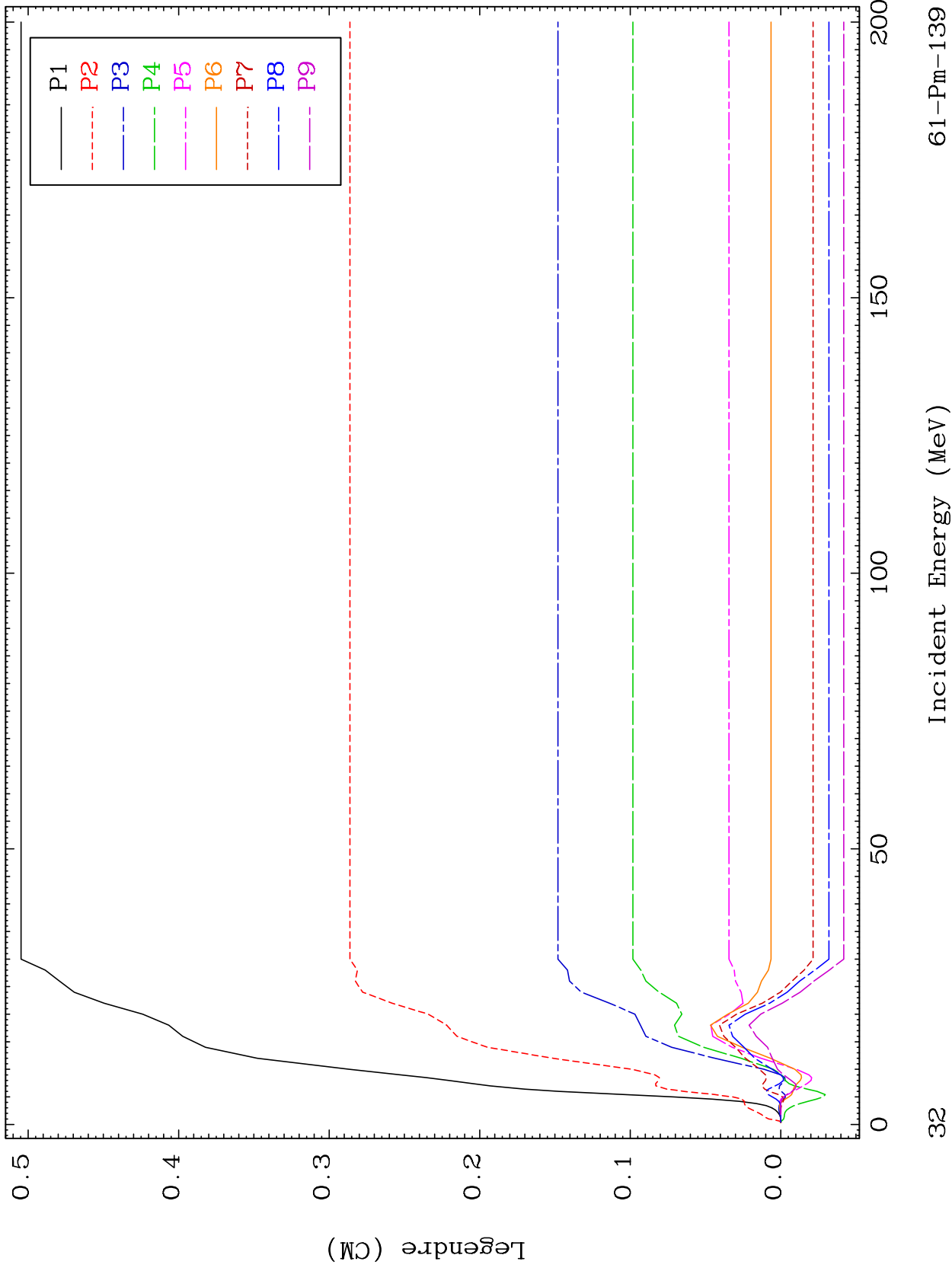
Incident Energy (MeV)

31

MAT 6125

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

61-Pm-139



61-Pm-139

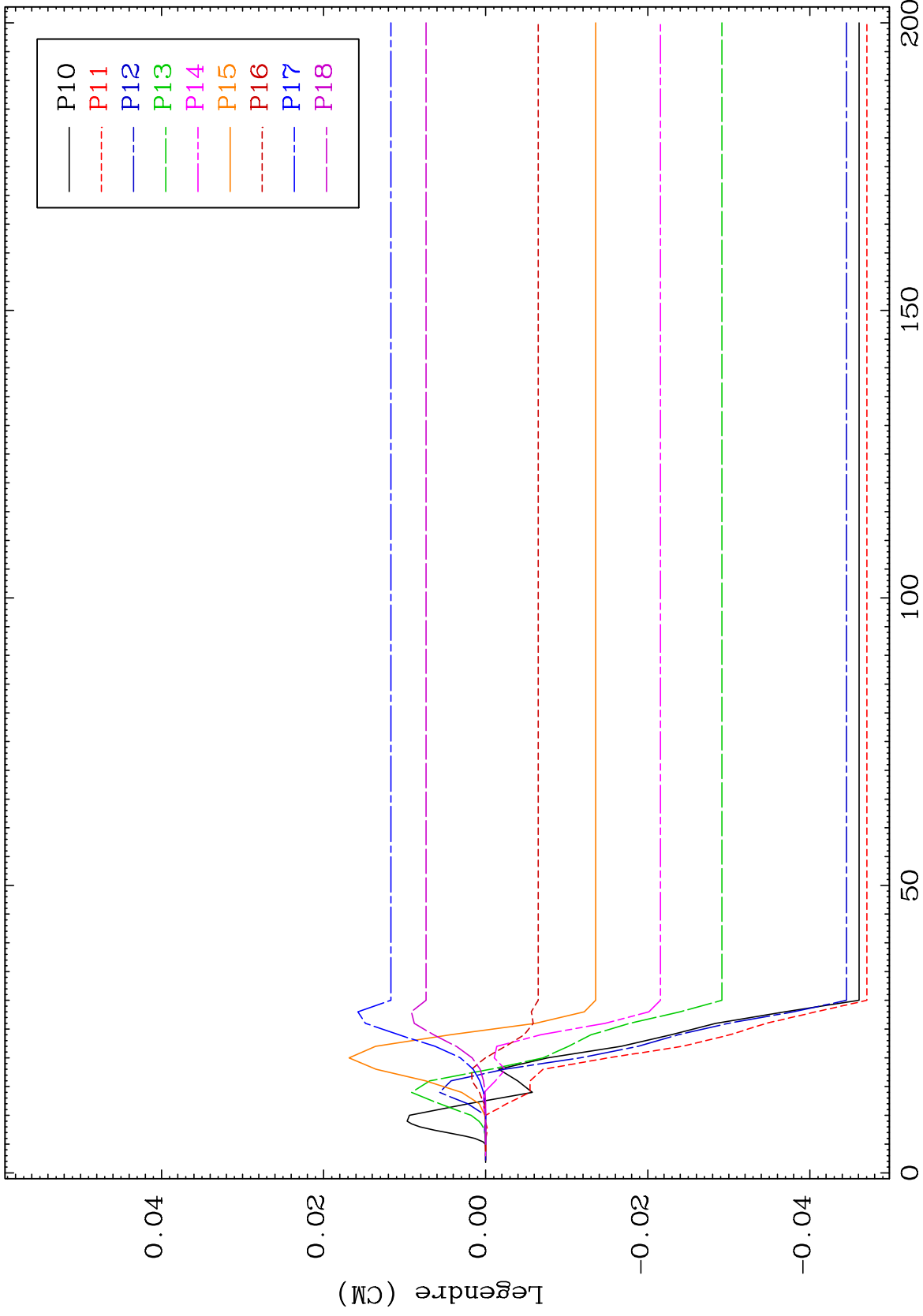
Incident Energy (MeV)

32

MAT 6125

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

61-Pm-139



33

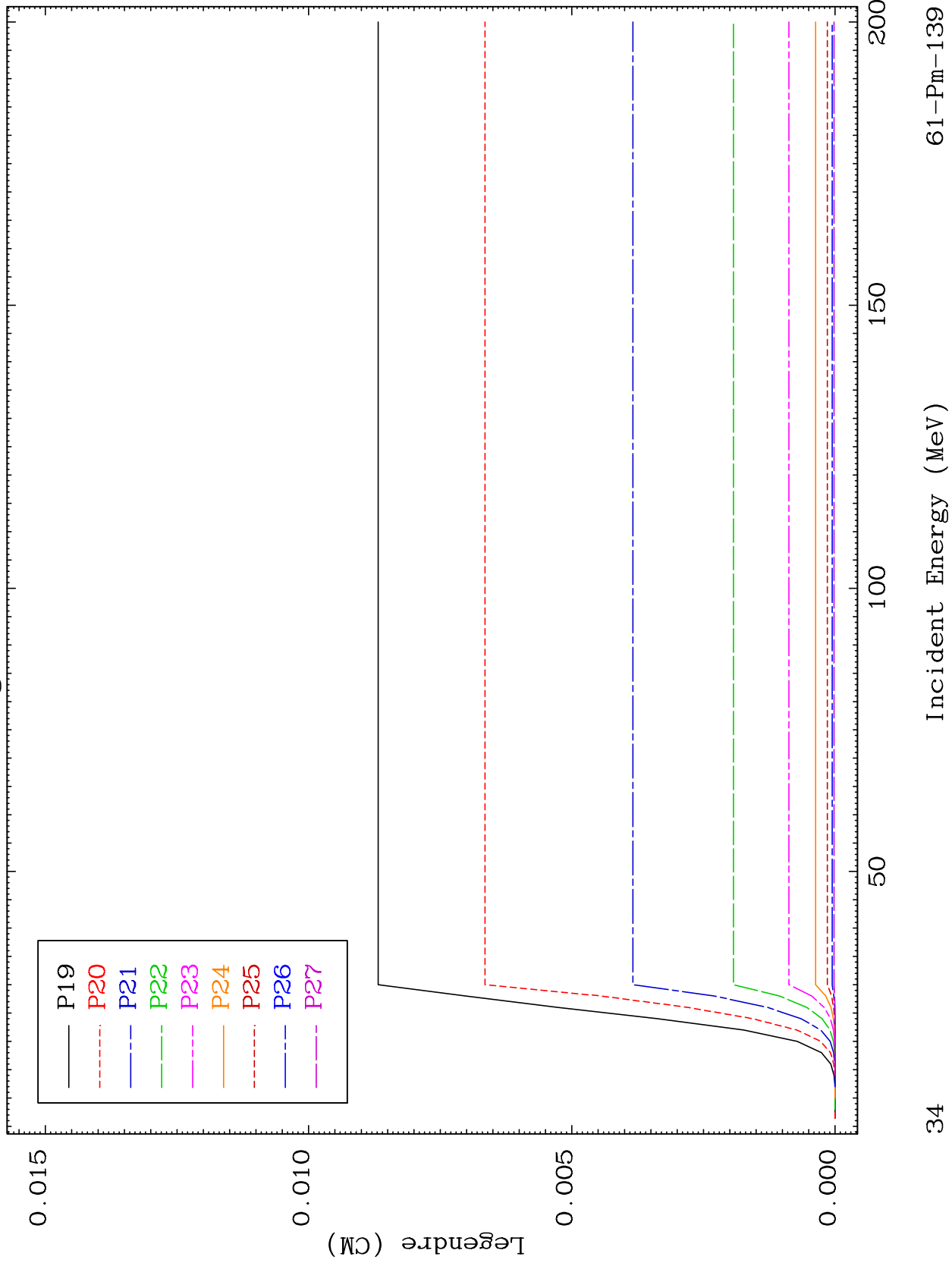
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



34

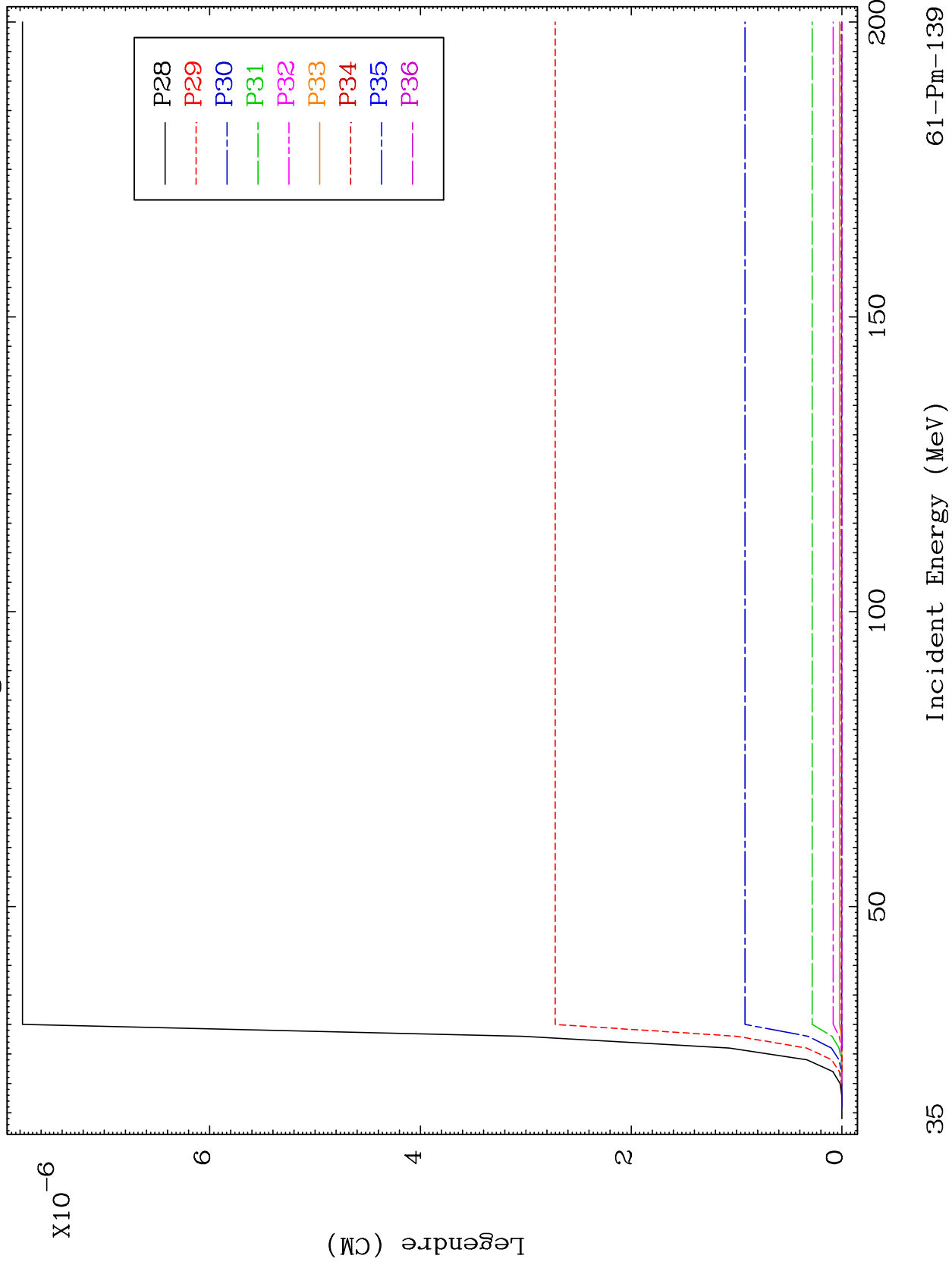
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

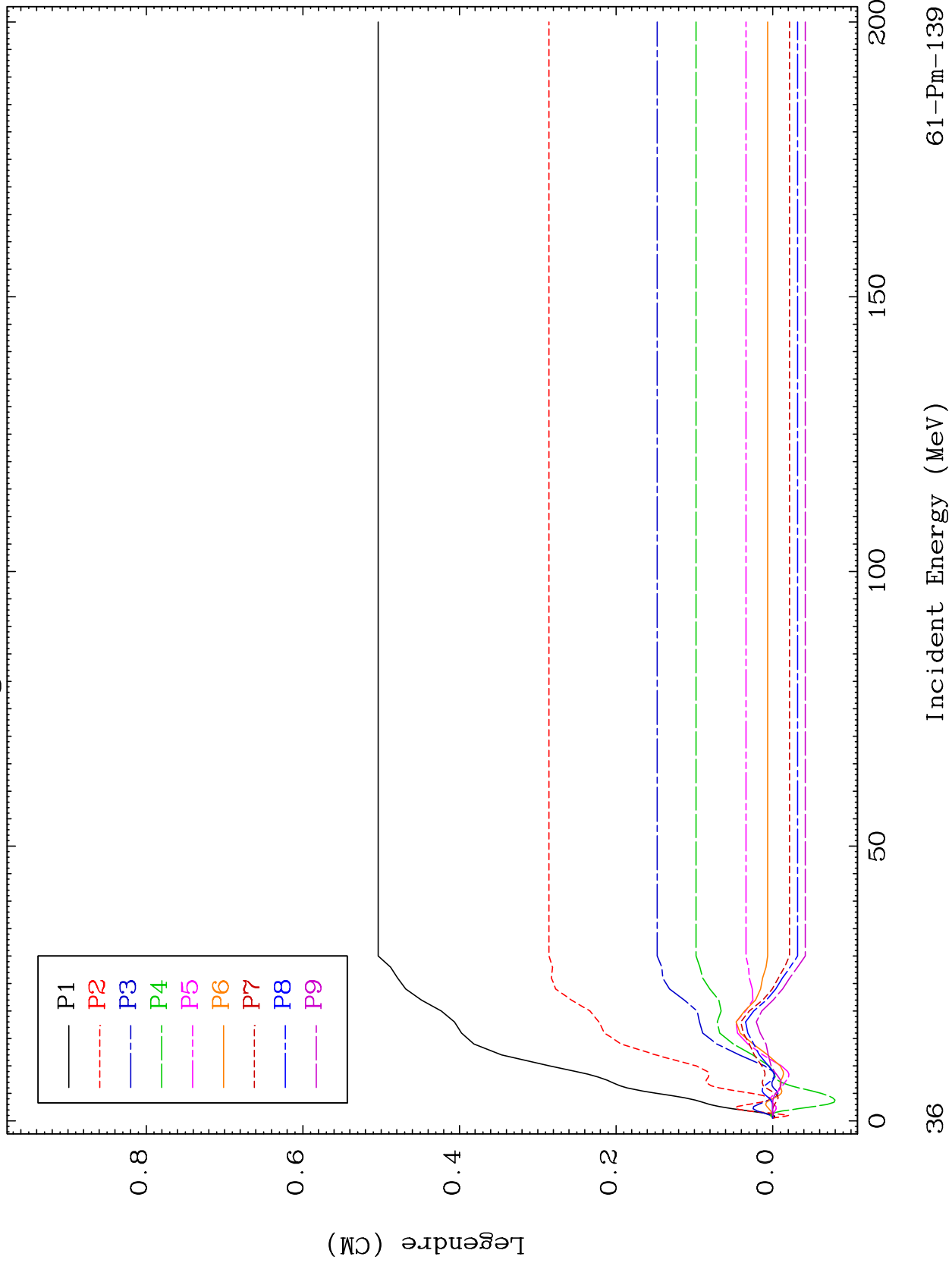
61-Pm-139



MAT 6125

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

61-Pm-139



36

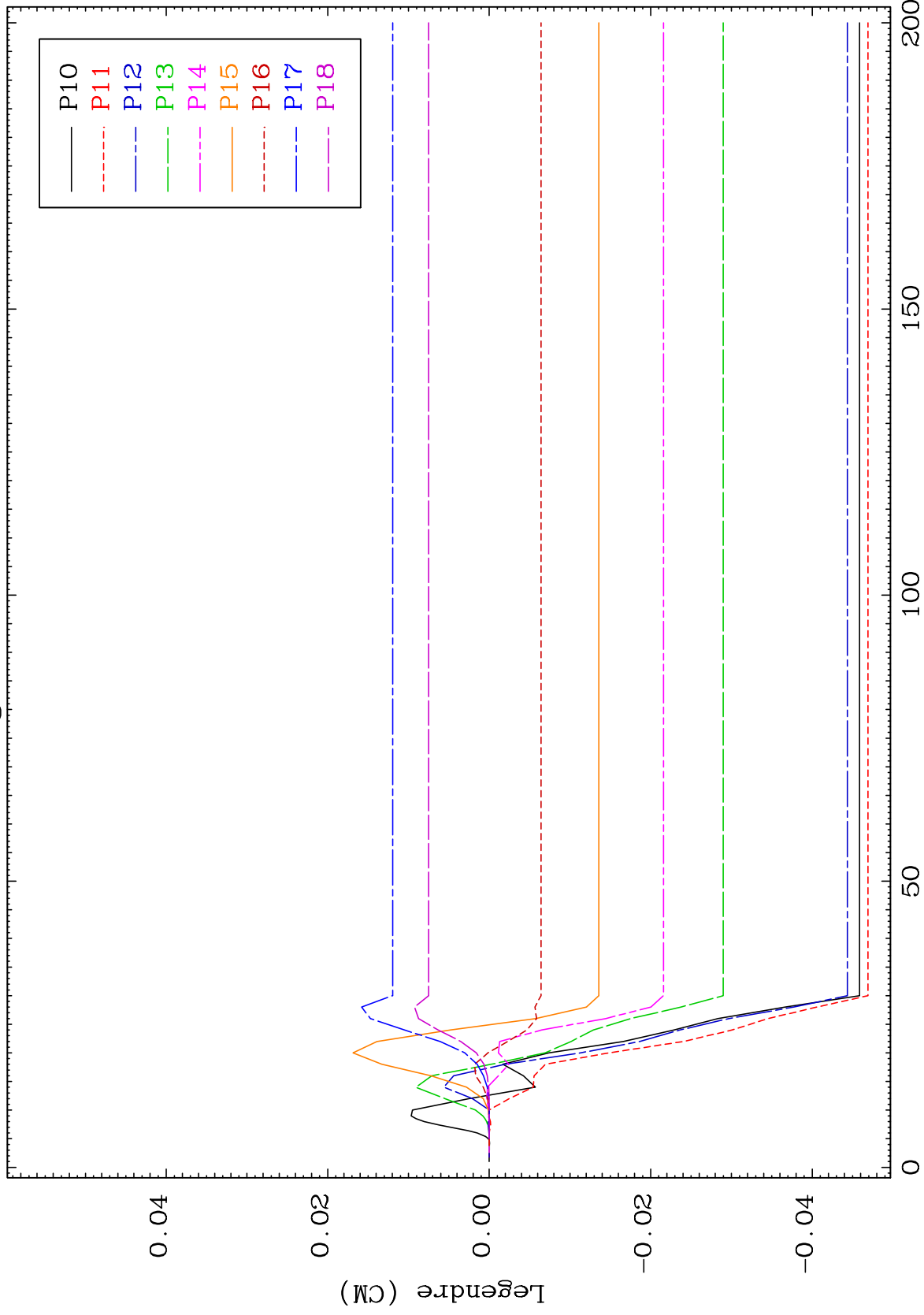
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



37

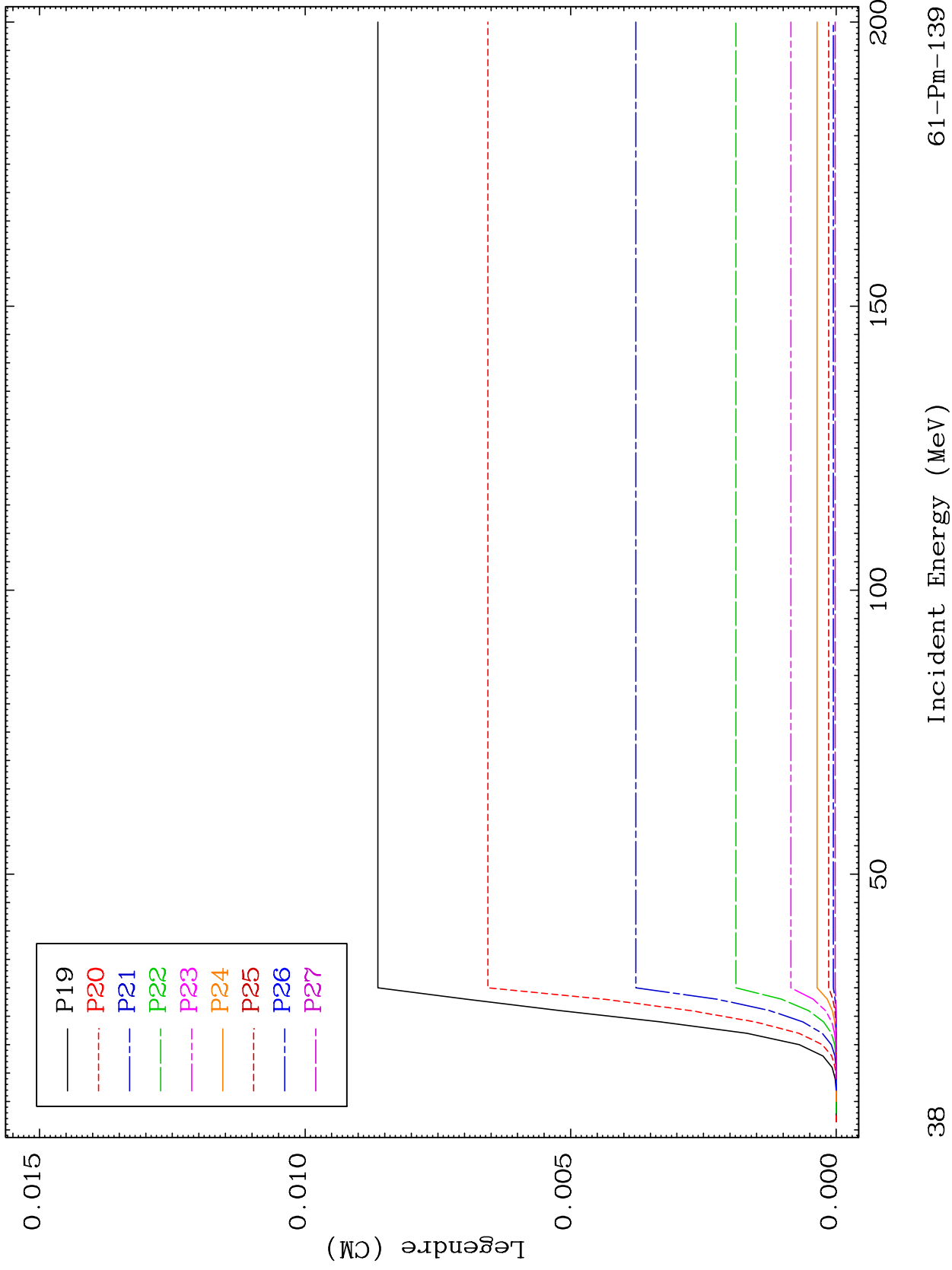
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



38

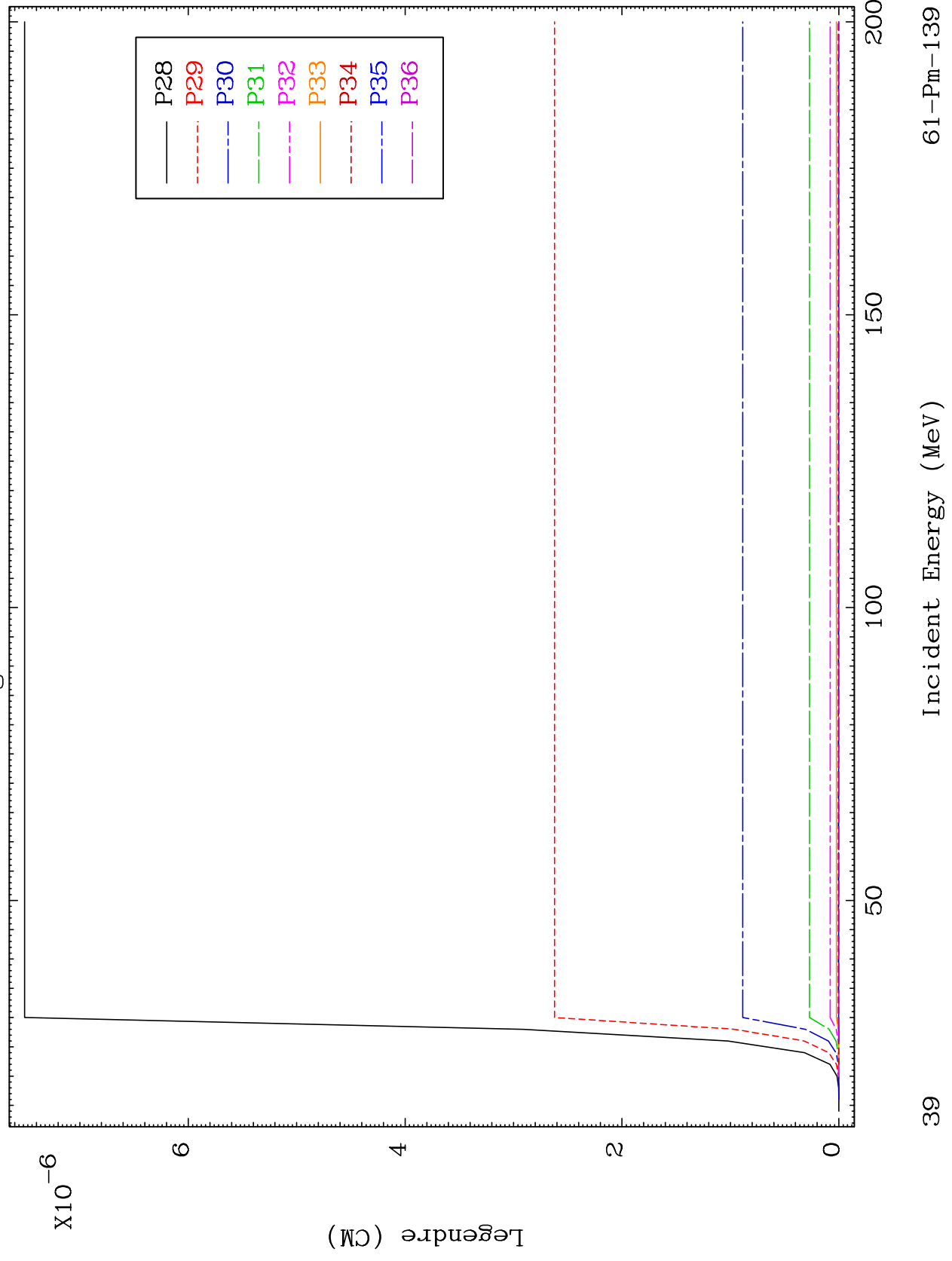
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



39

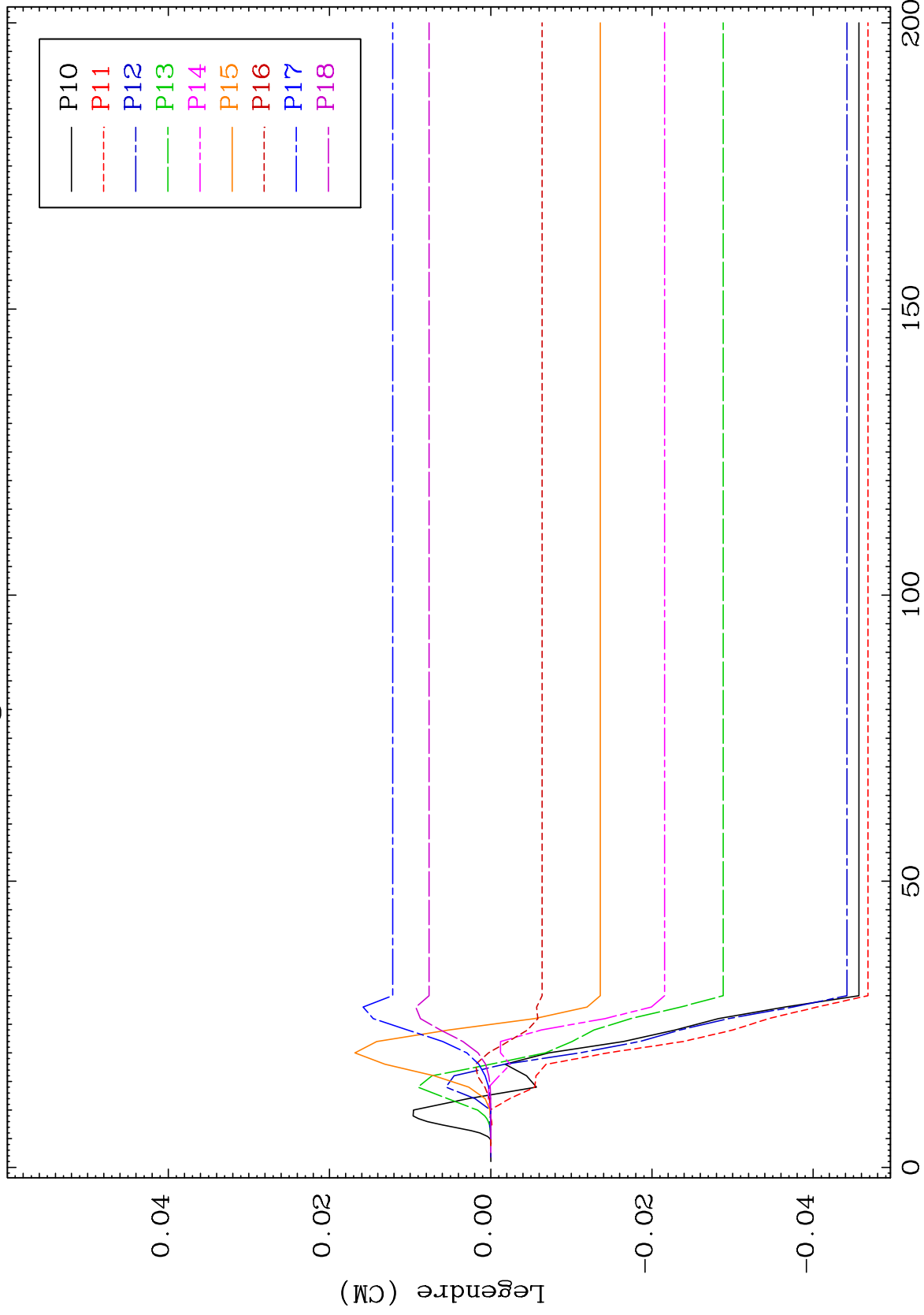
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



41

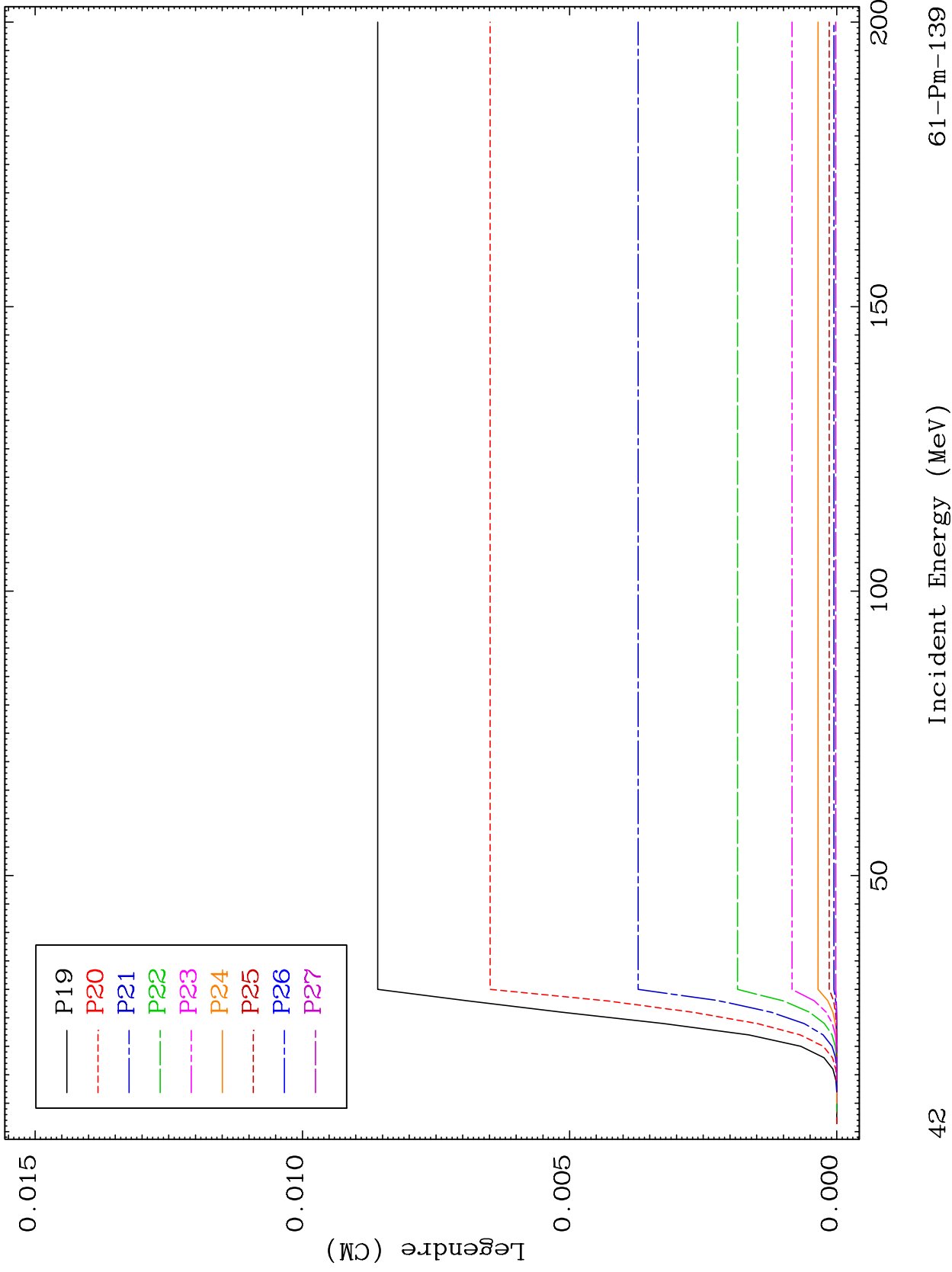
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



42

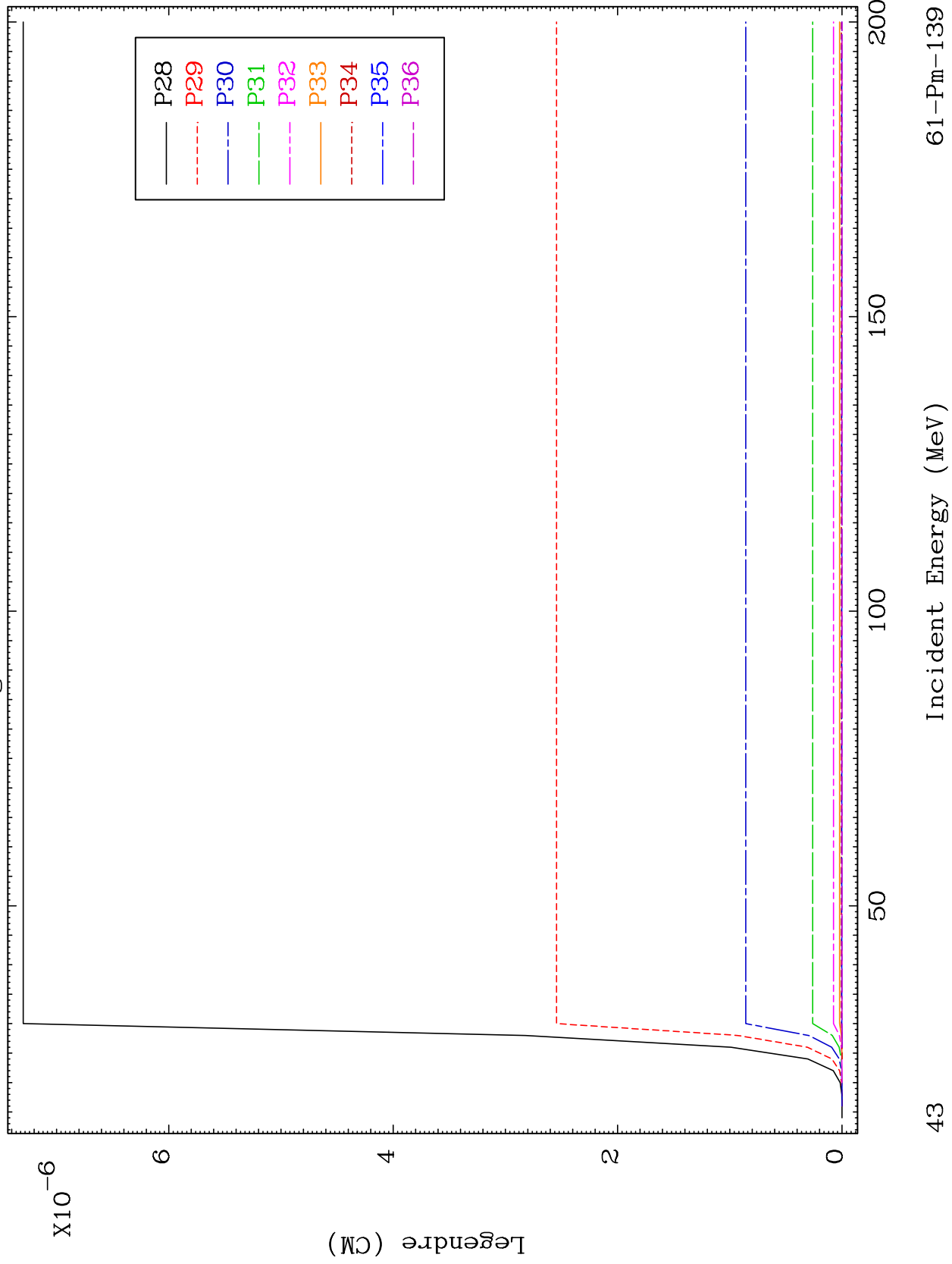
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



43

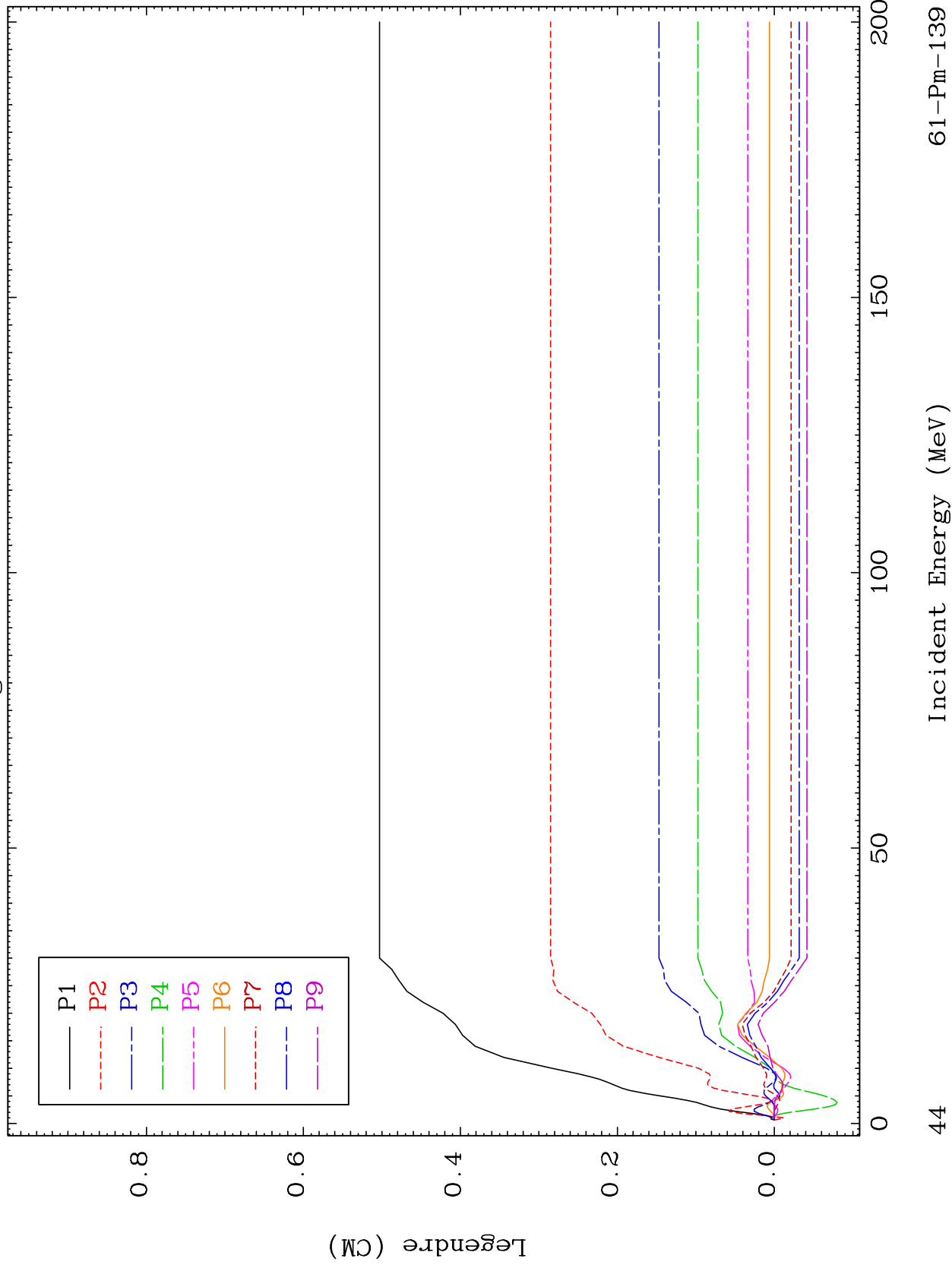
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



44

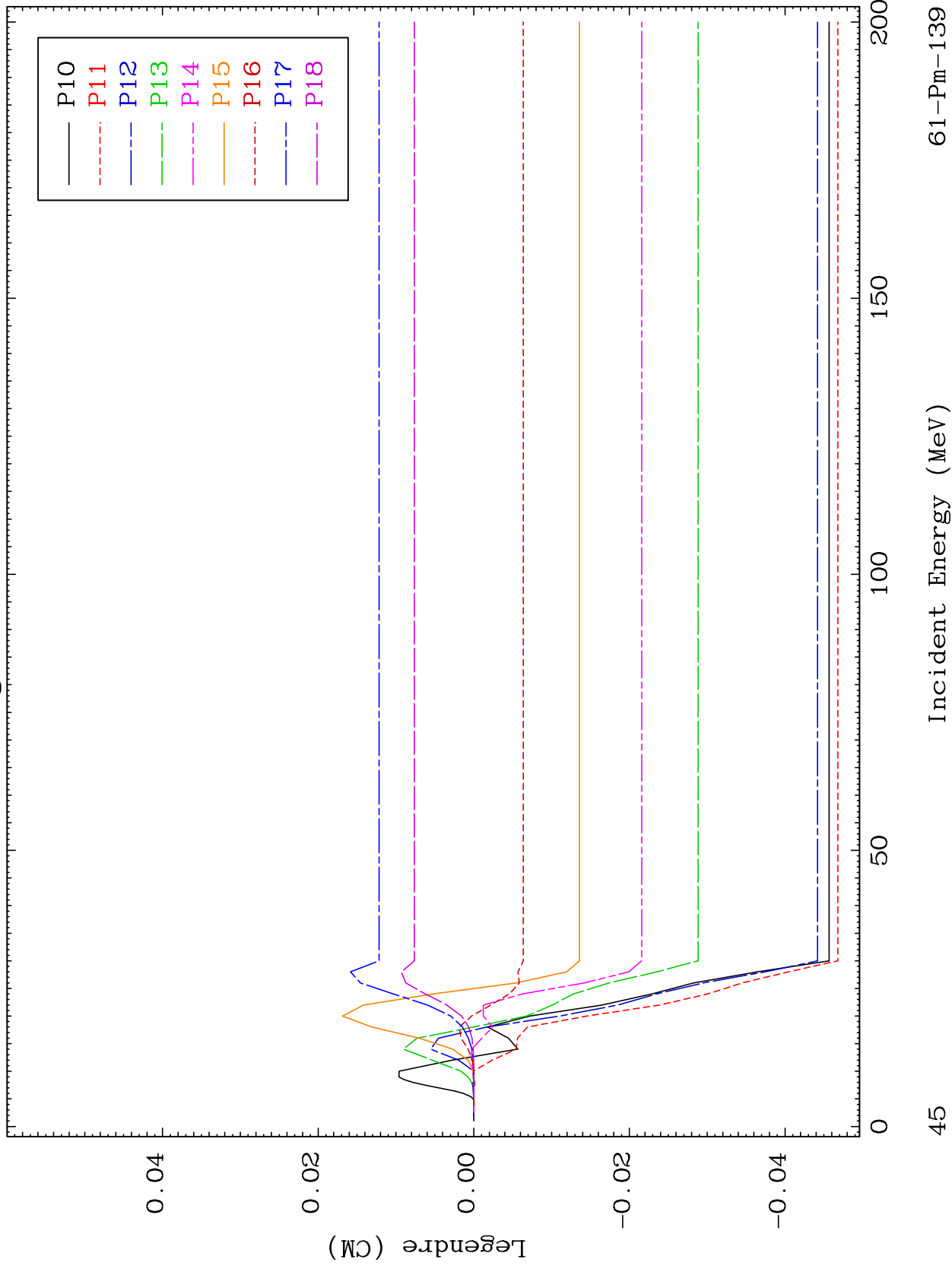
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

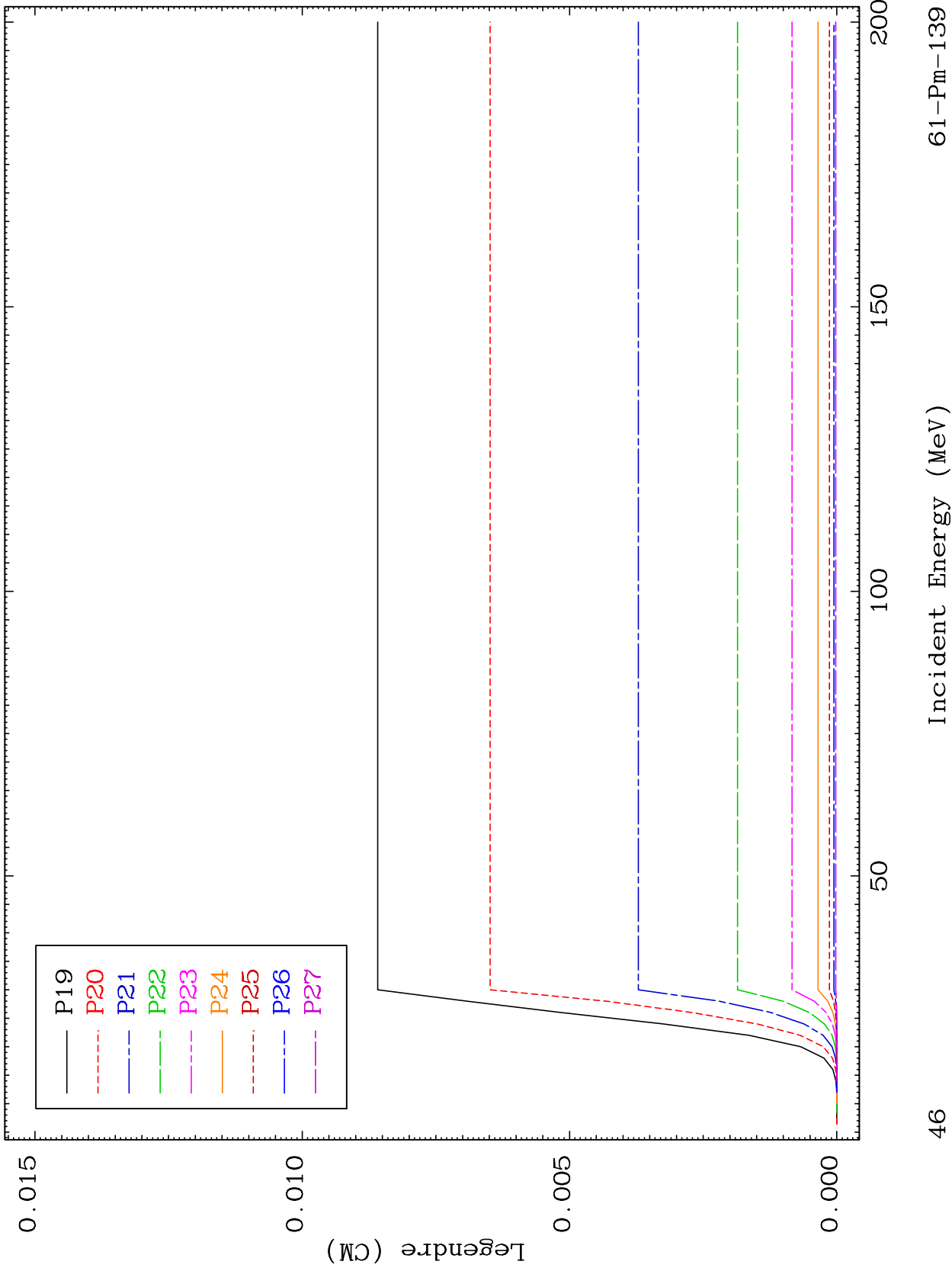
61-Pm-139



61-Pm-139

Incident Energy (MeV)

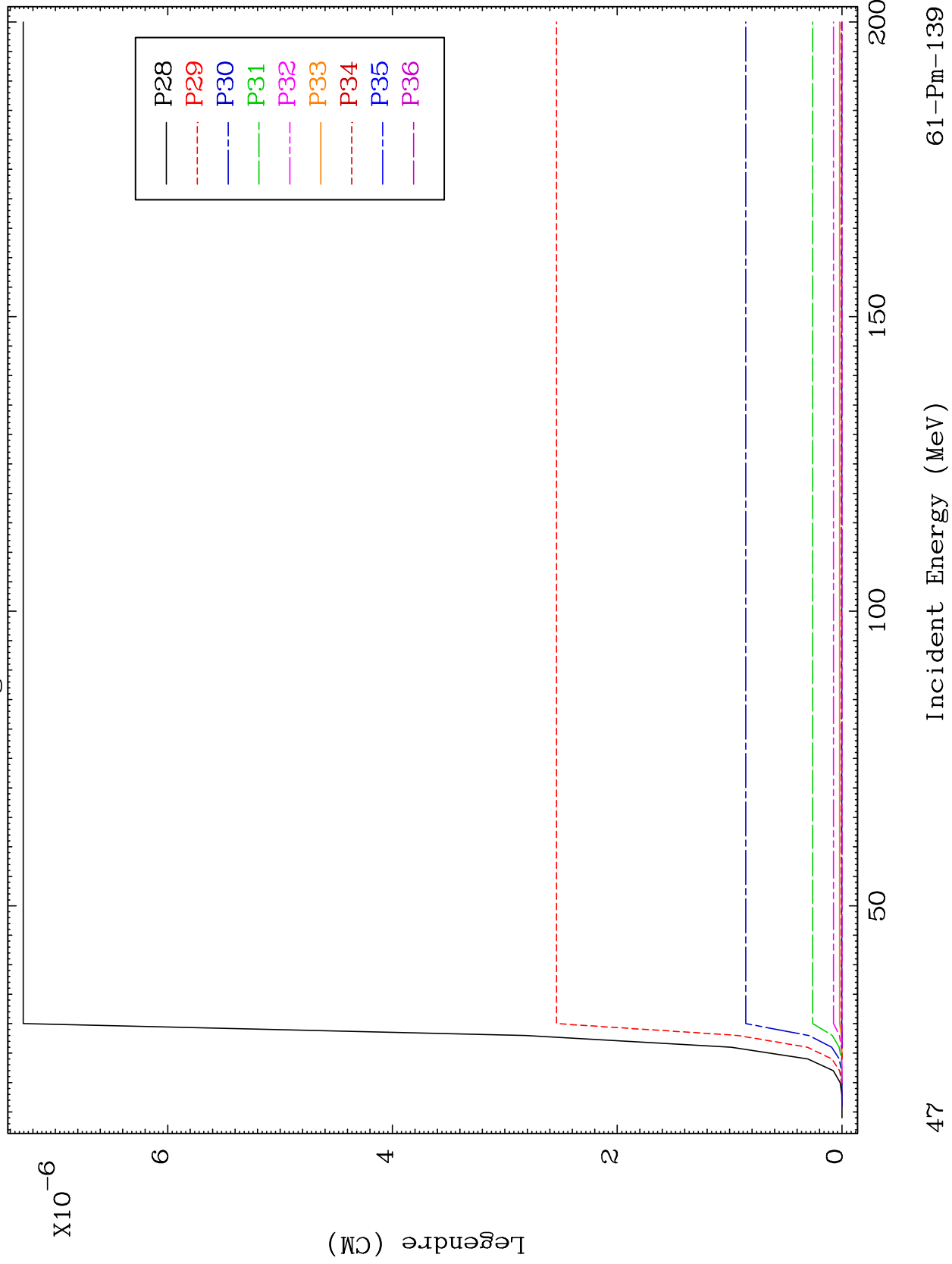
45



MAT 6125

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

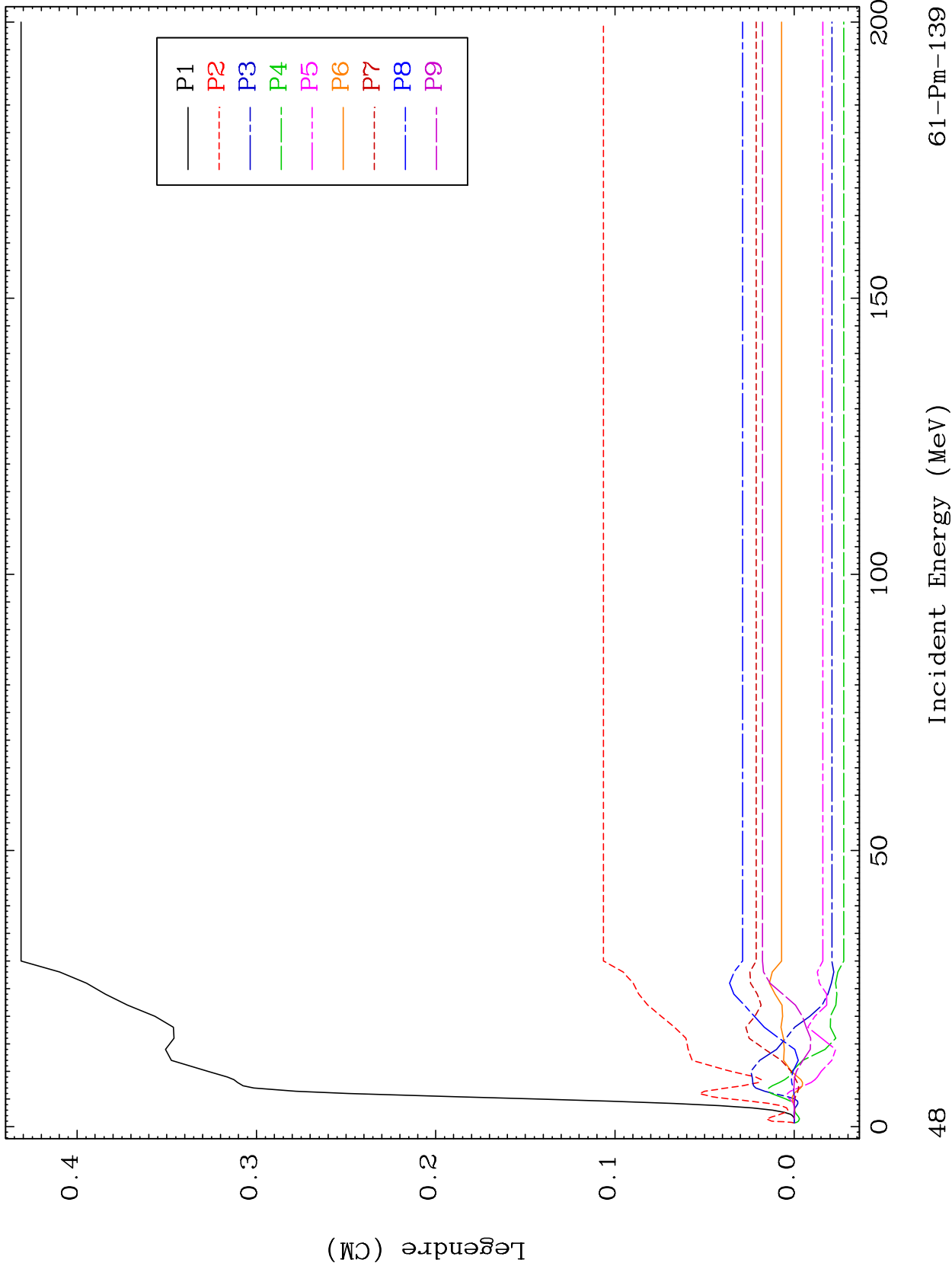
61-Pm-139



MAT 6125

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

61-Pm-139



61-Pm-139

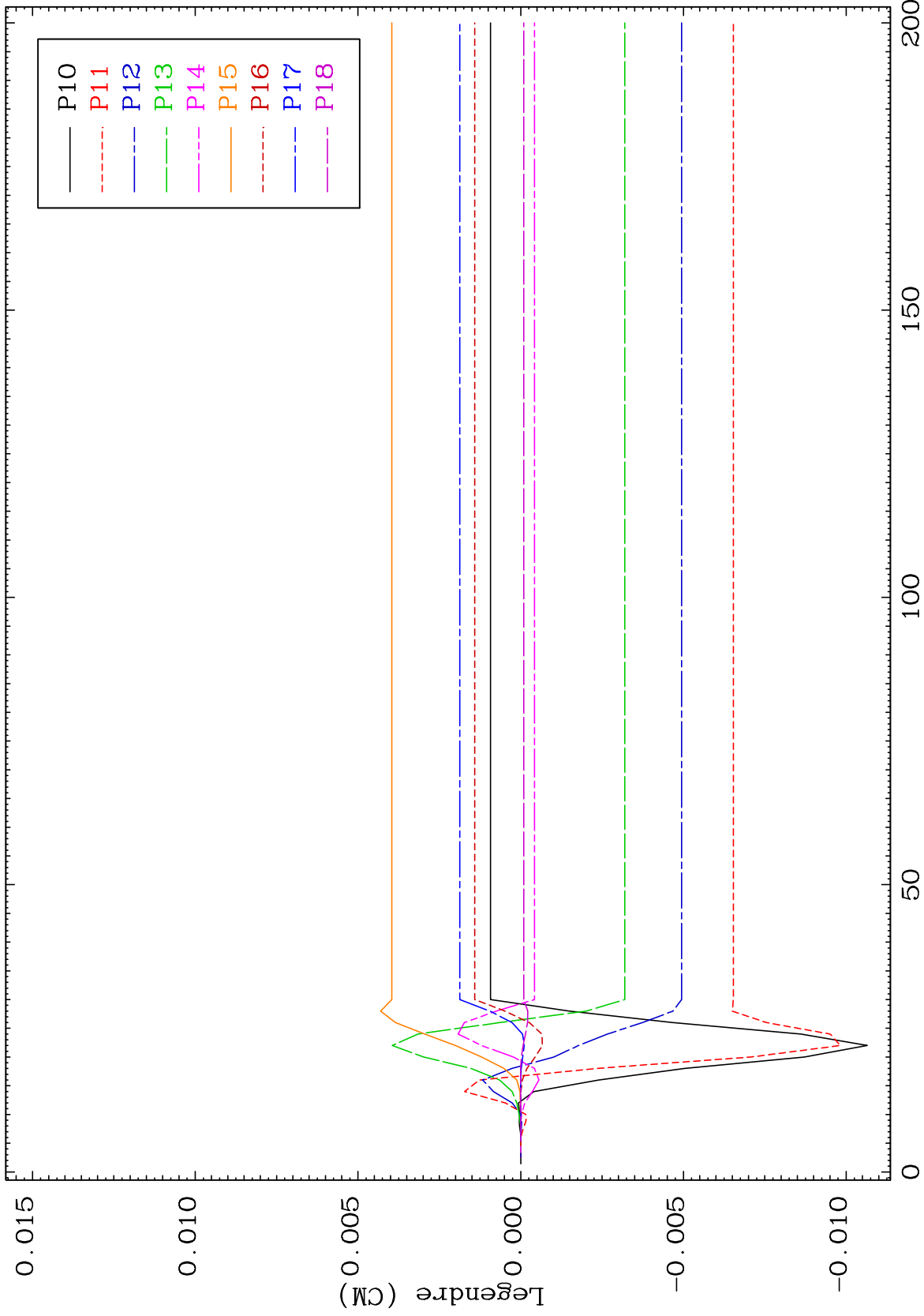
Incident Energy (MeV)

48

MAT 6125

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

61-Pm-139



49

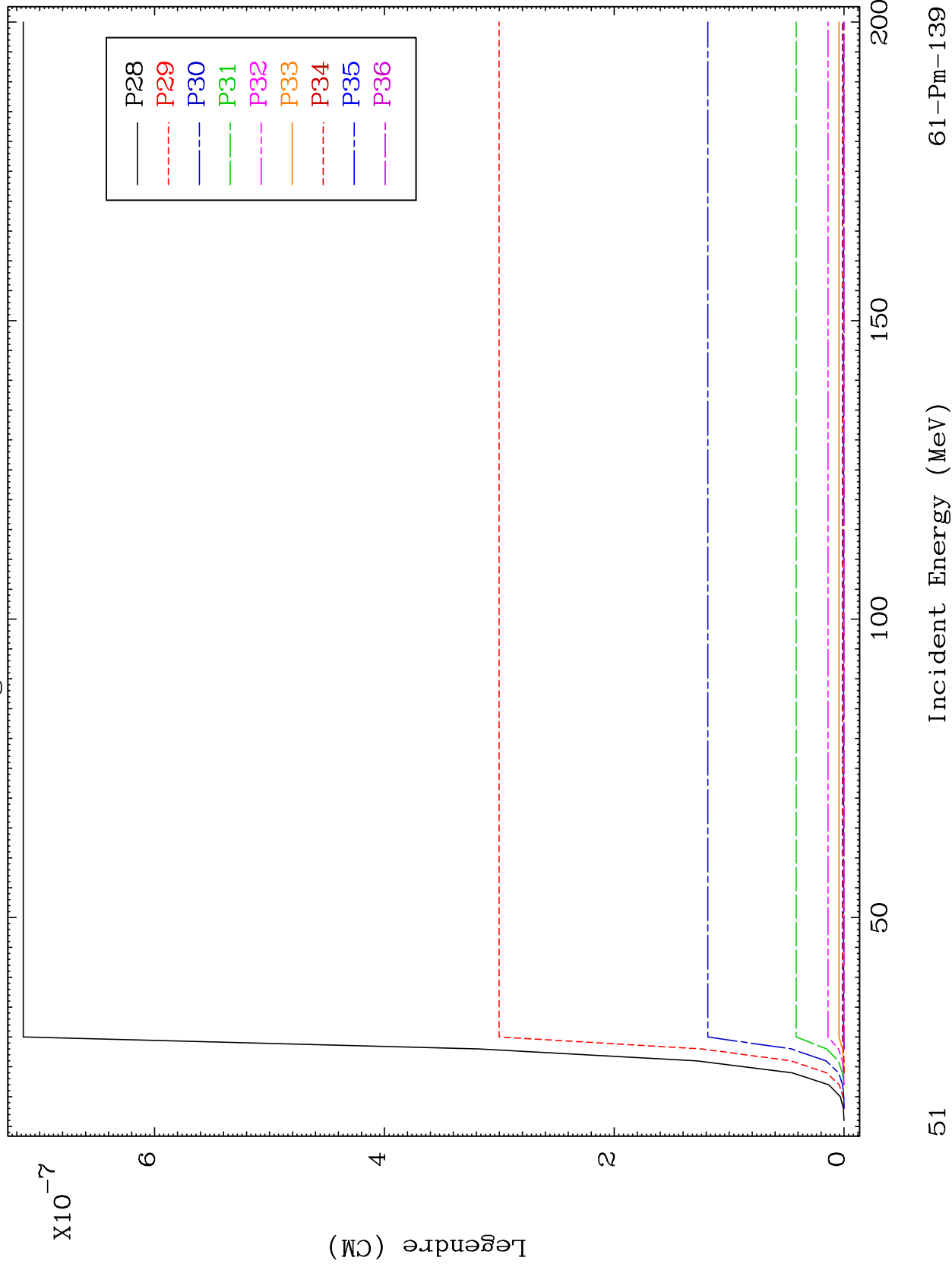
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



51

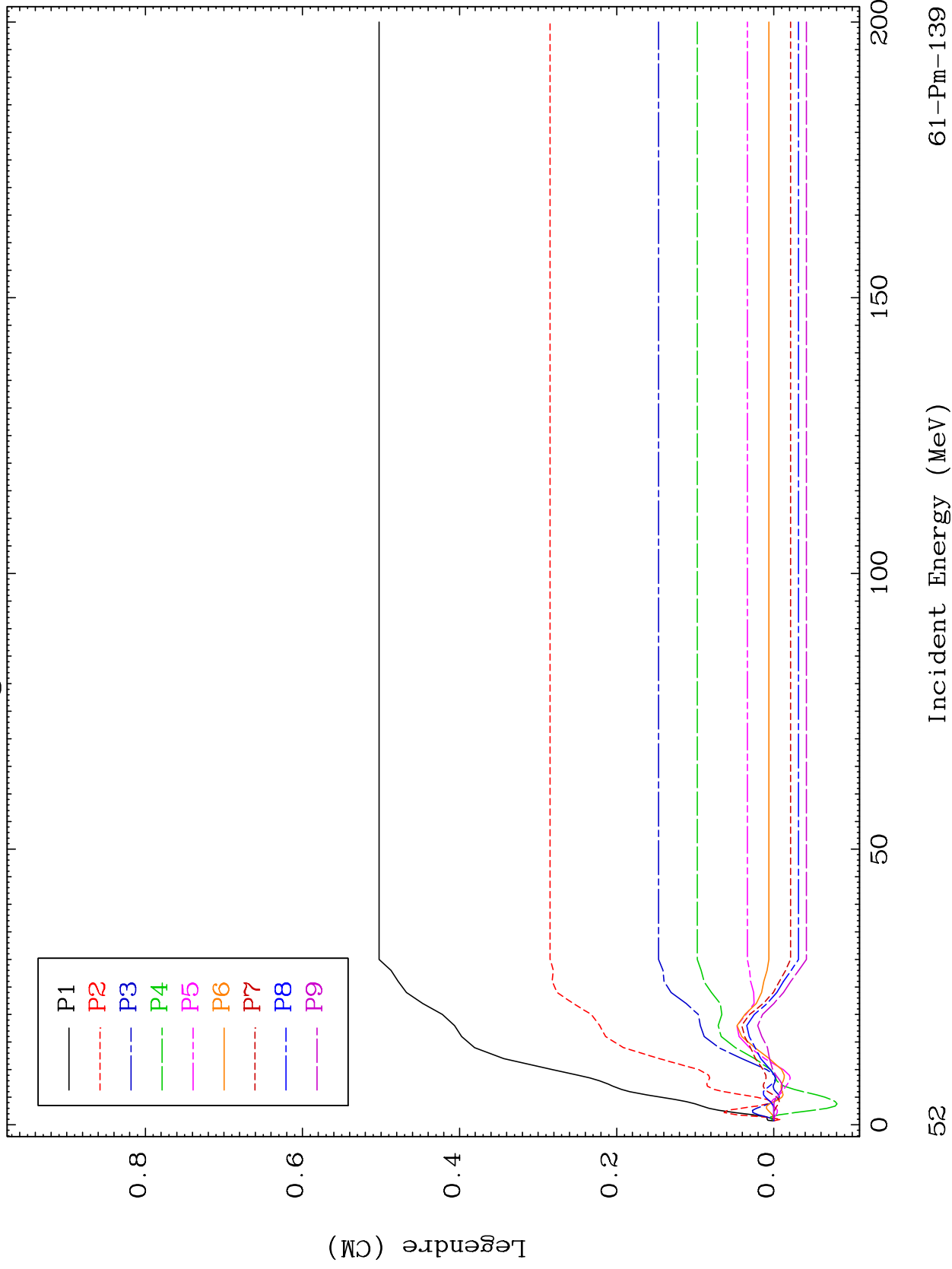
Incident Energy (MeV)

61-Pm-139

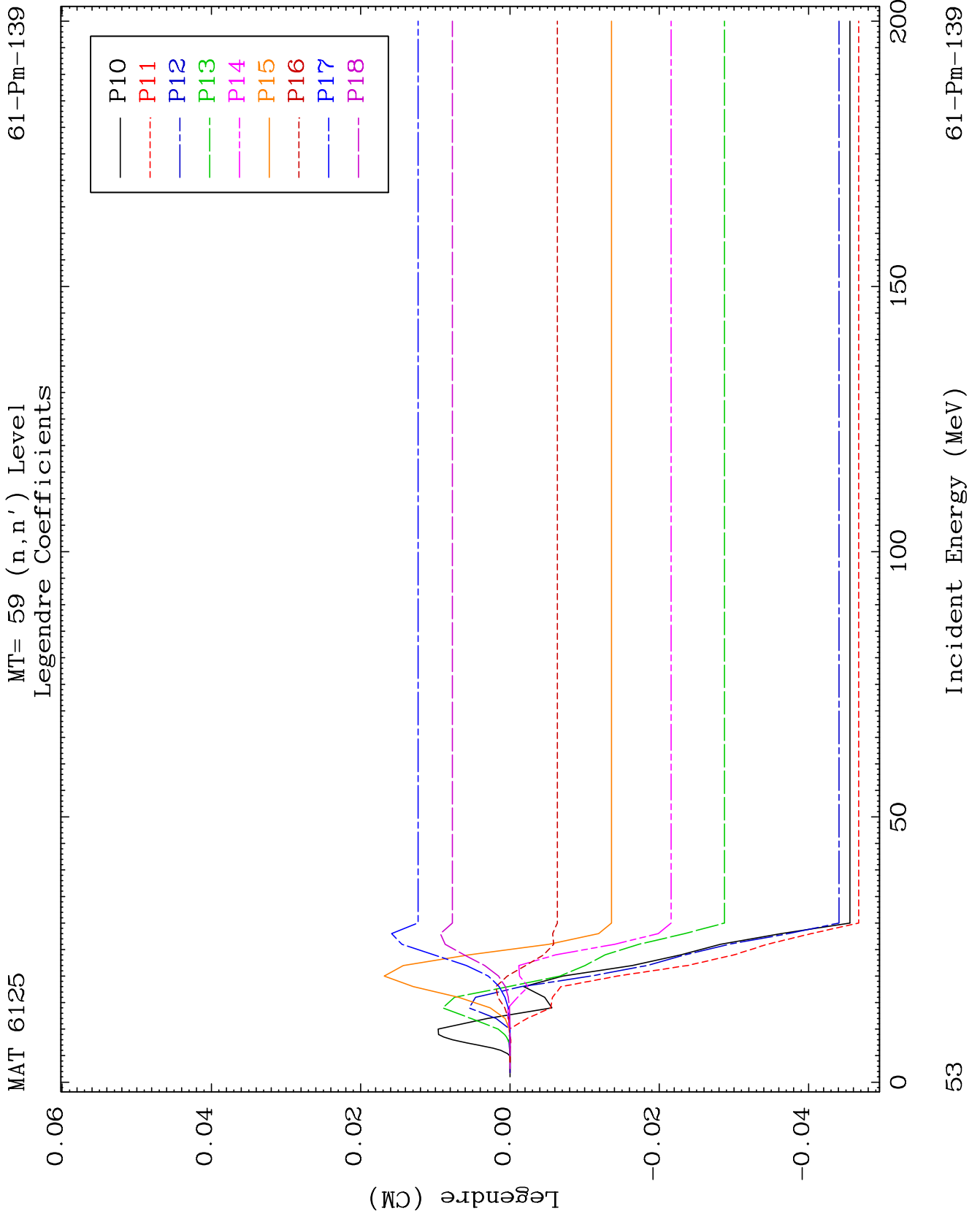
MAT 6125

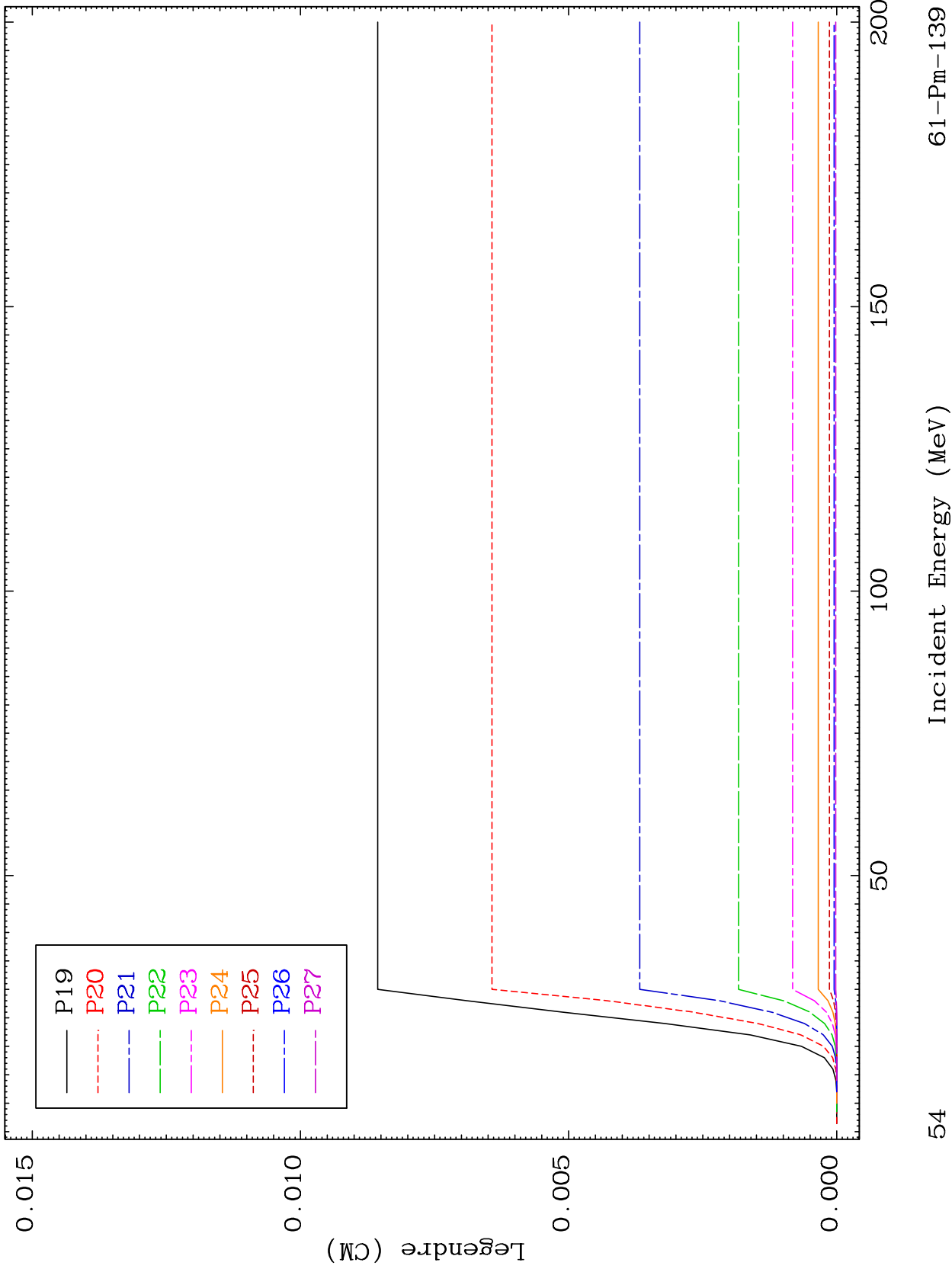
MT= 59 (n,n') Level
Legendre Coefficients

61-Pm-139



52

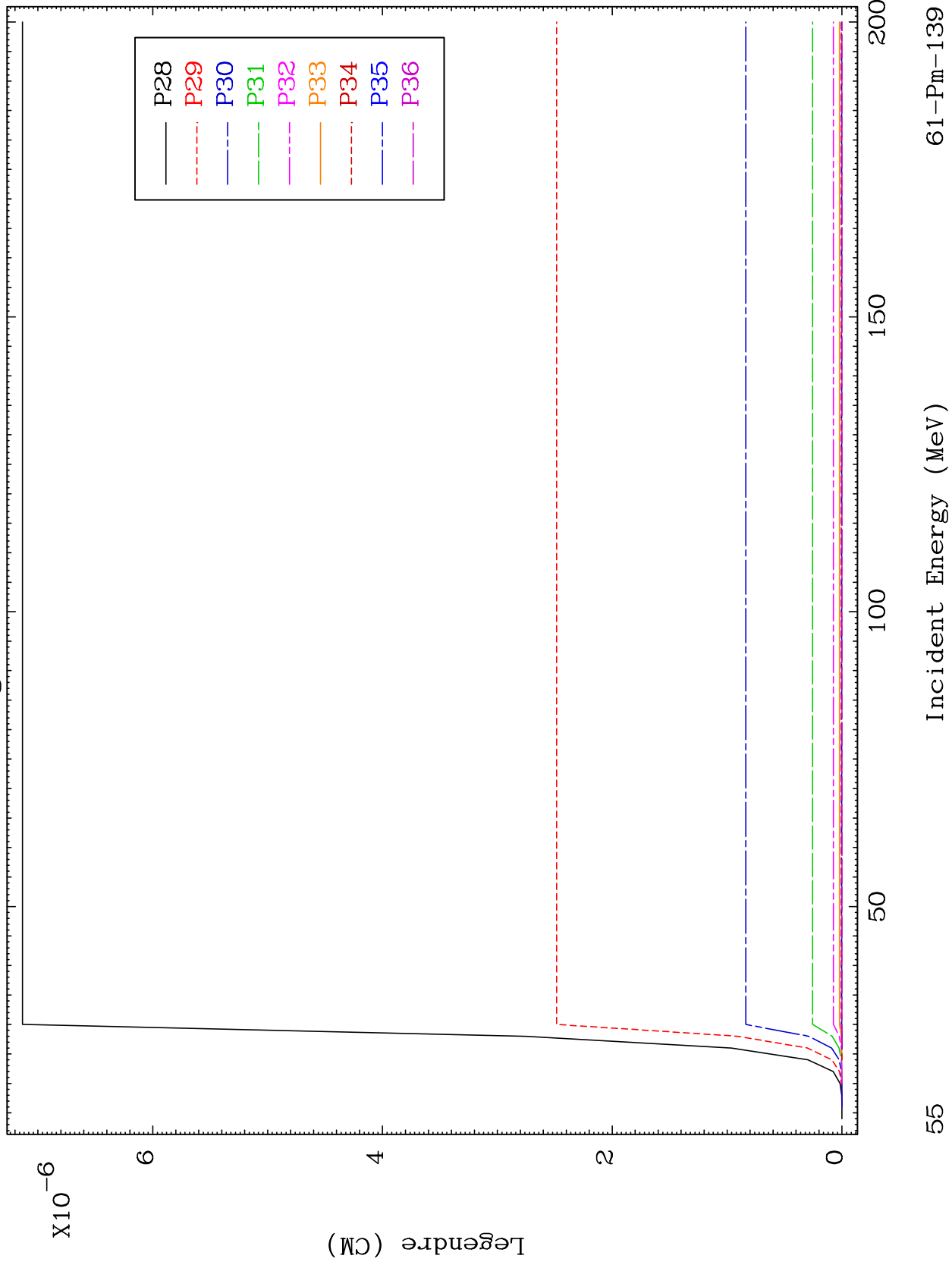




MAT 6125

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

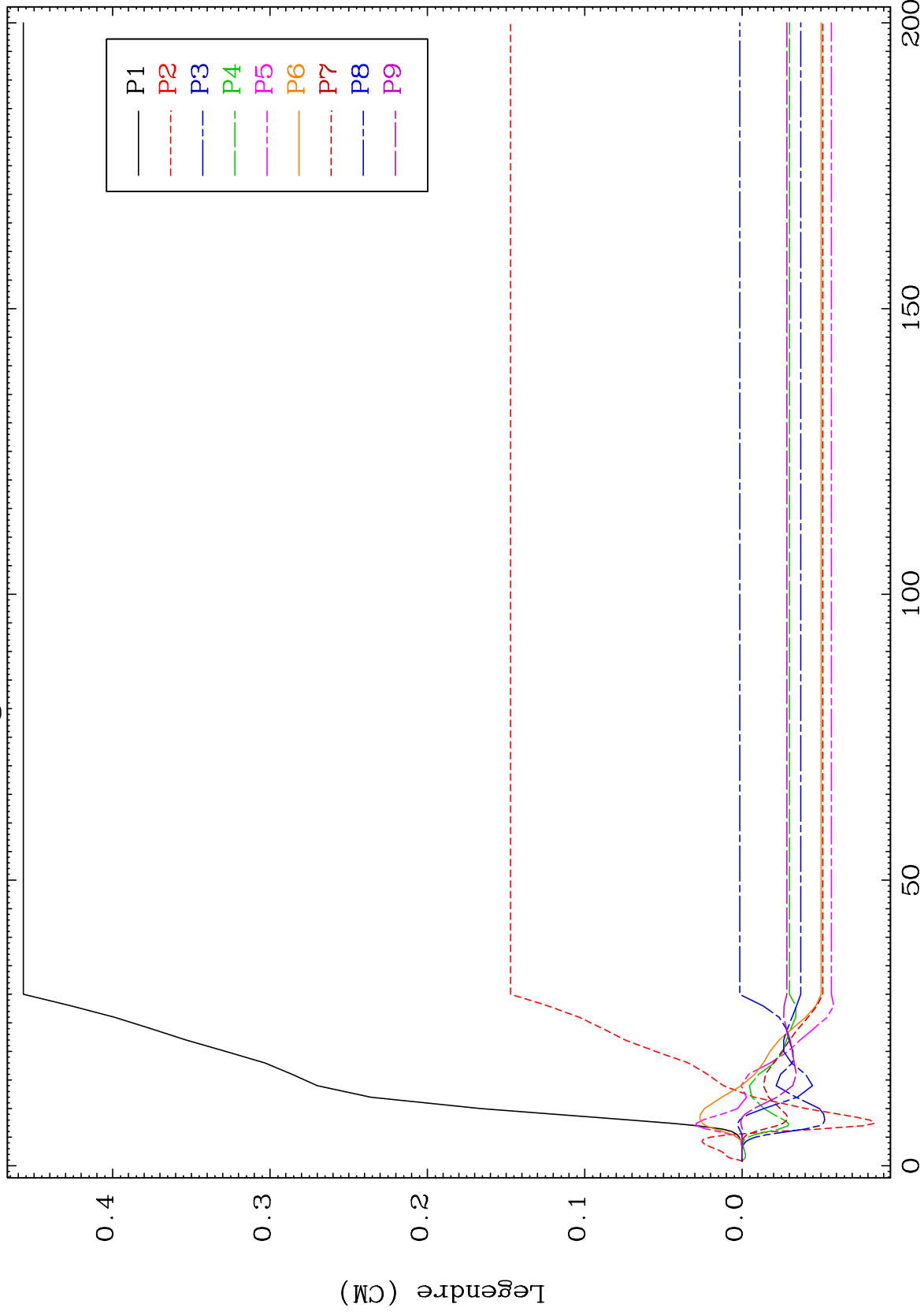
61-Pm-139



MAT 6125

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

61-Pm-139



56

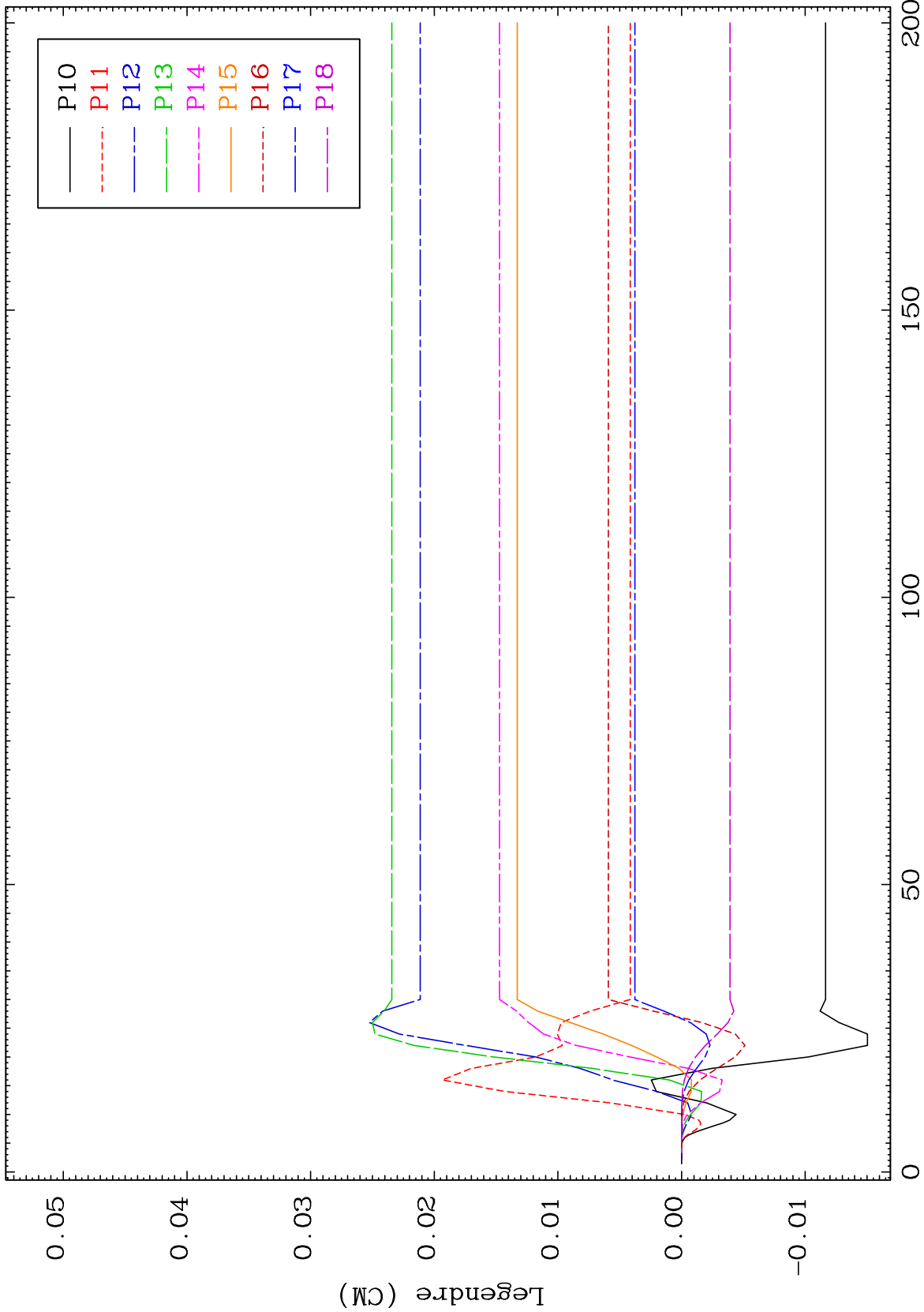
61-Pm-139

61-Pm-139

MAT 6125

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

61-Pm-139



57

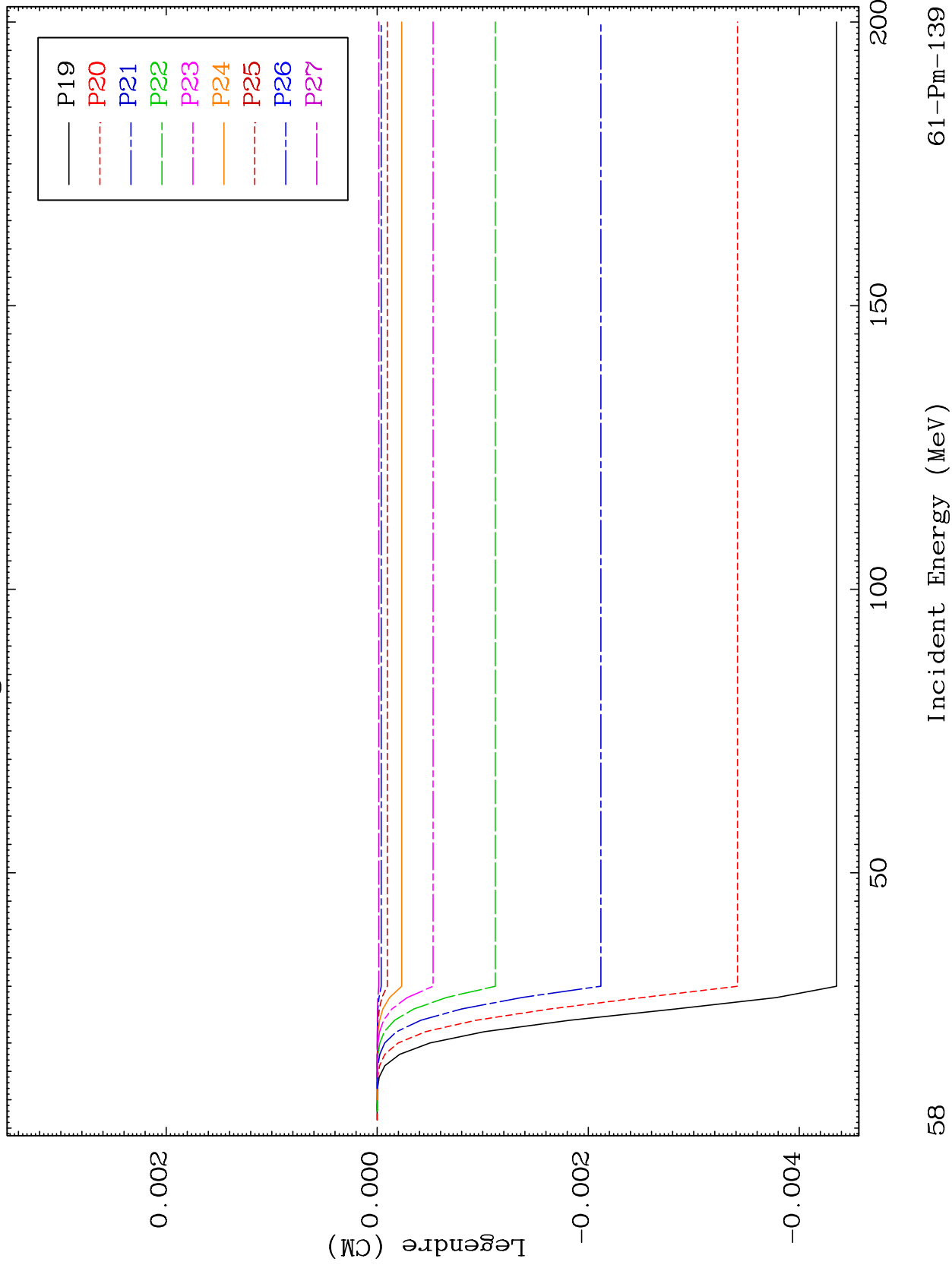
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

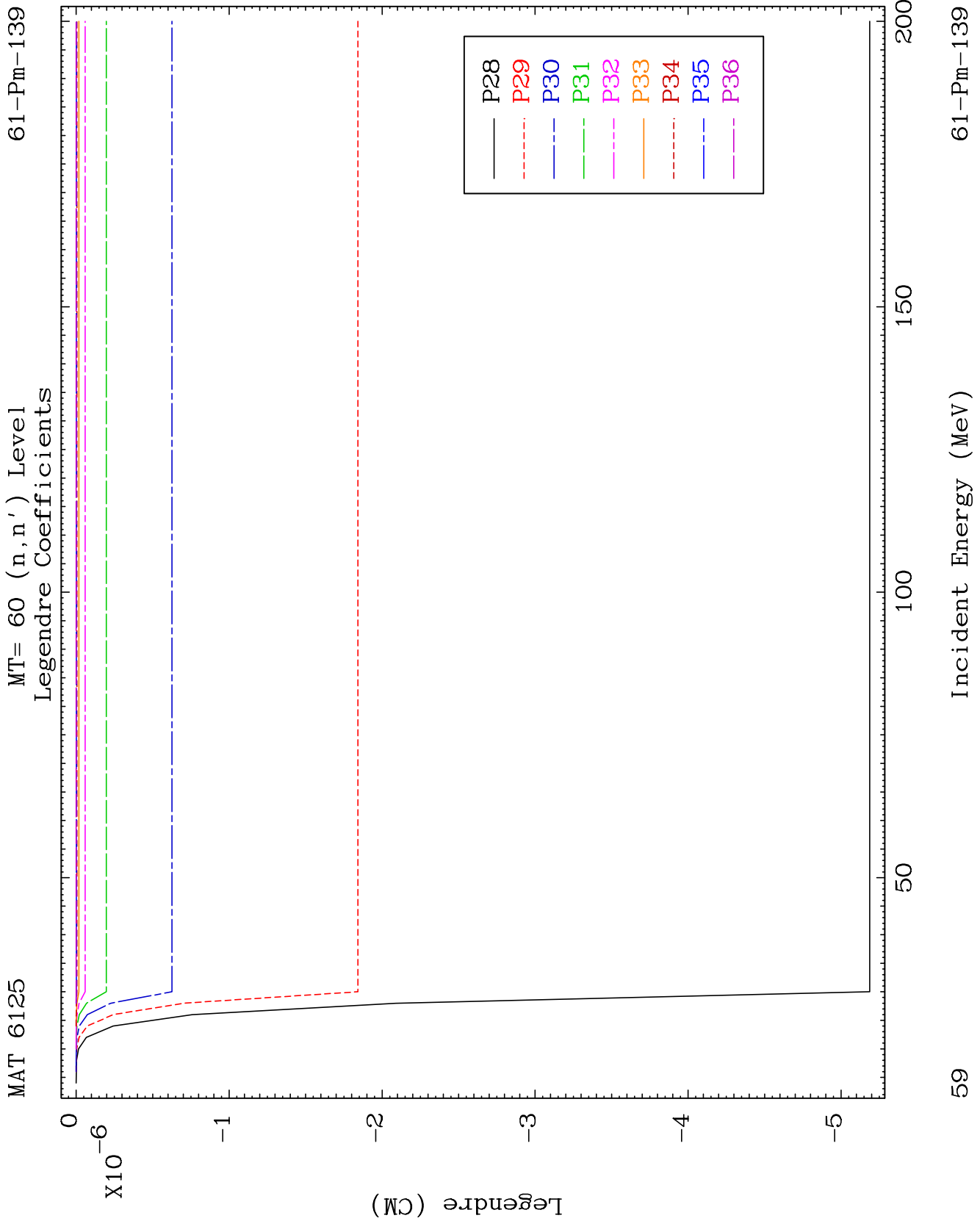
61-Pm-139



58

Incident Energy (MeV)

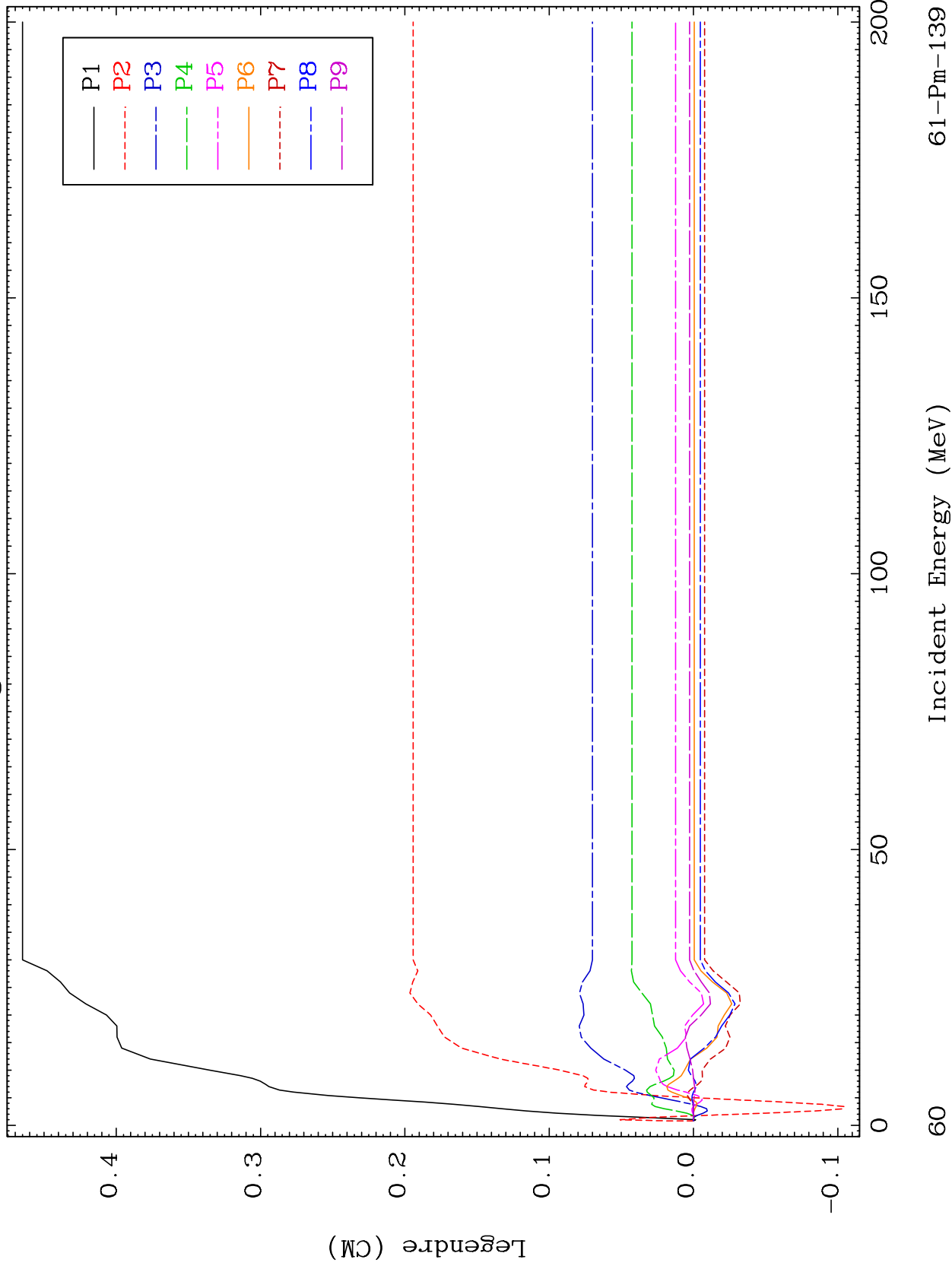
61-Pm-139

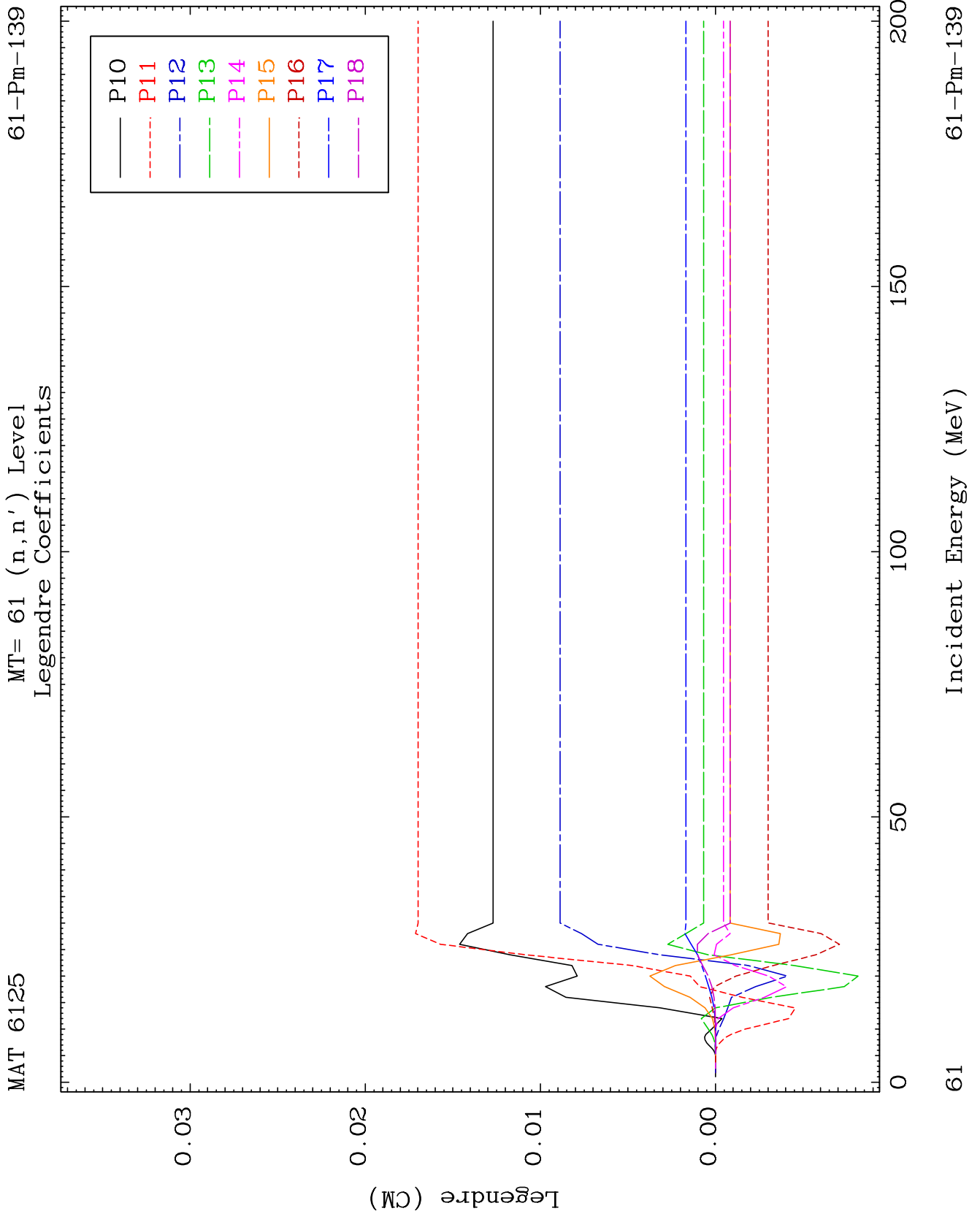


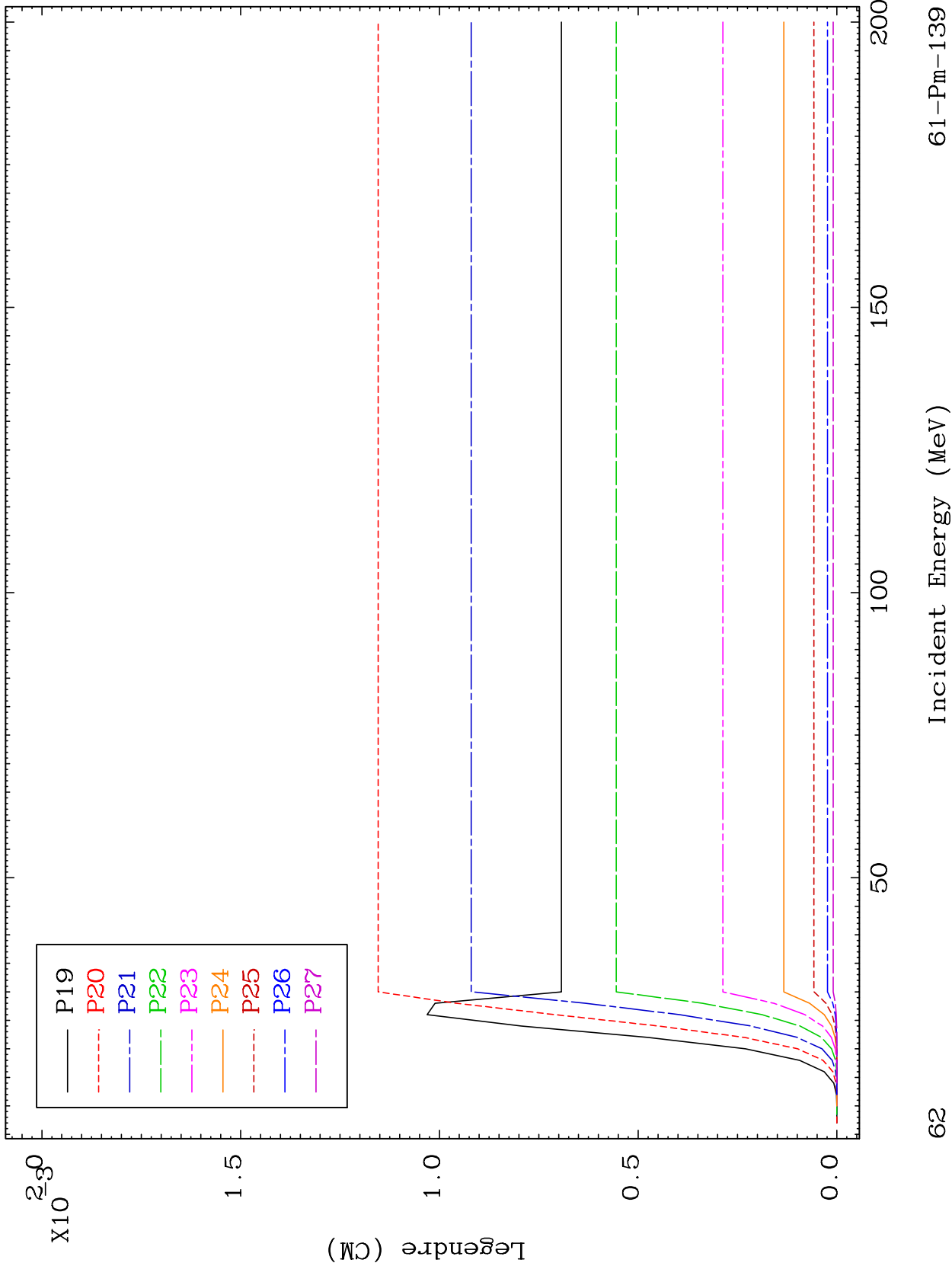
MAT 6125

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

61-Pm-139



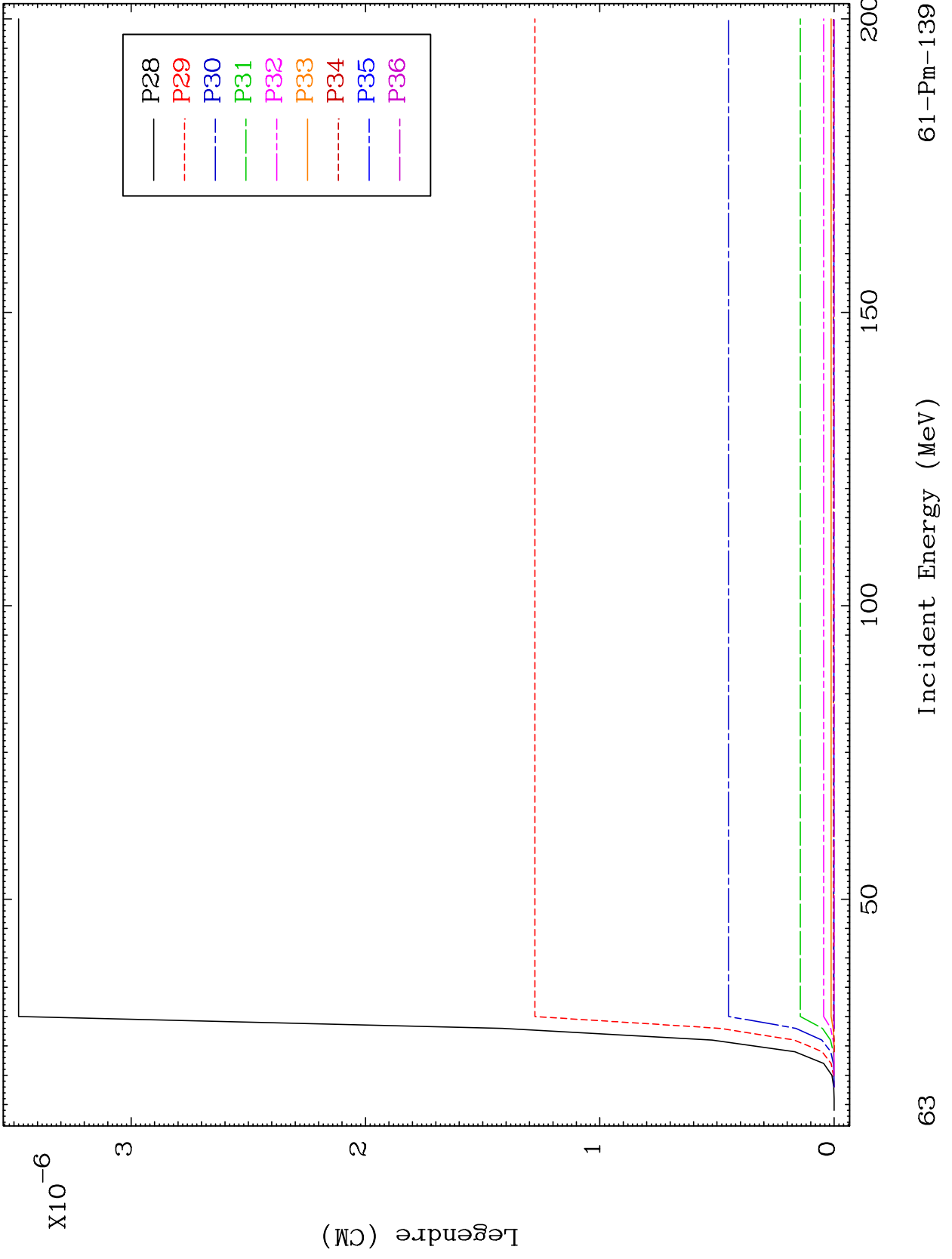




MAT 6125

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

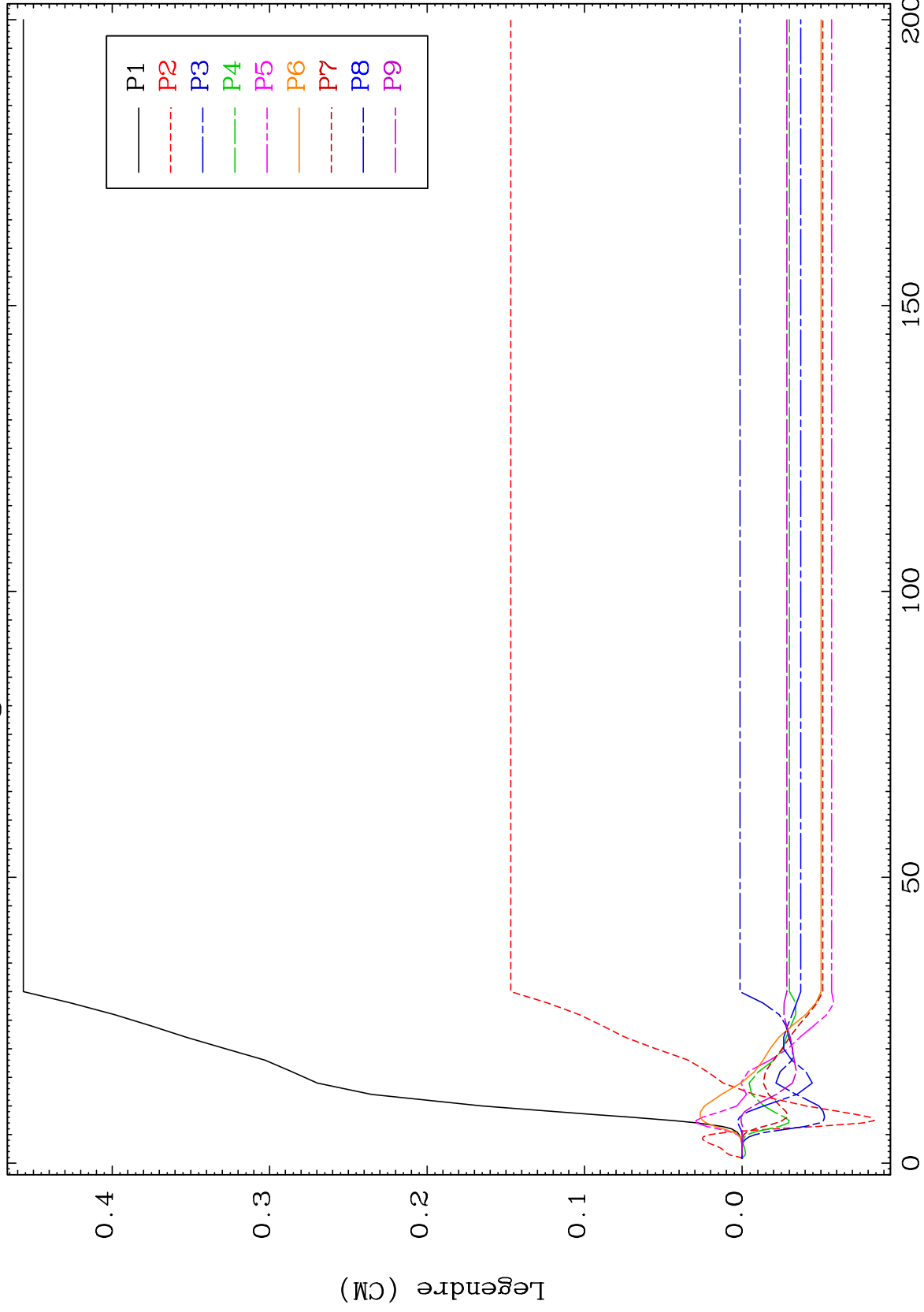
61-Pm-139



MAT 6125

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

61-Pm-139



61-Pm-139

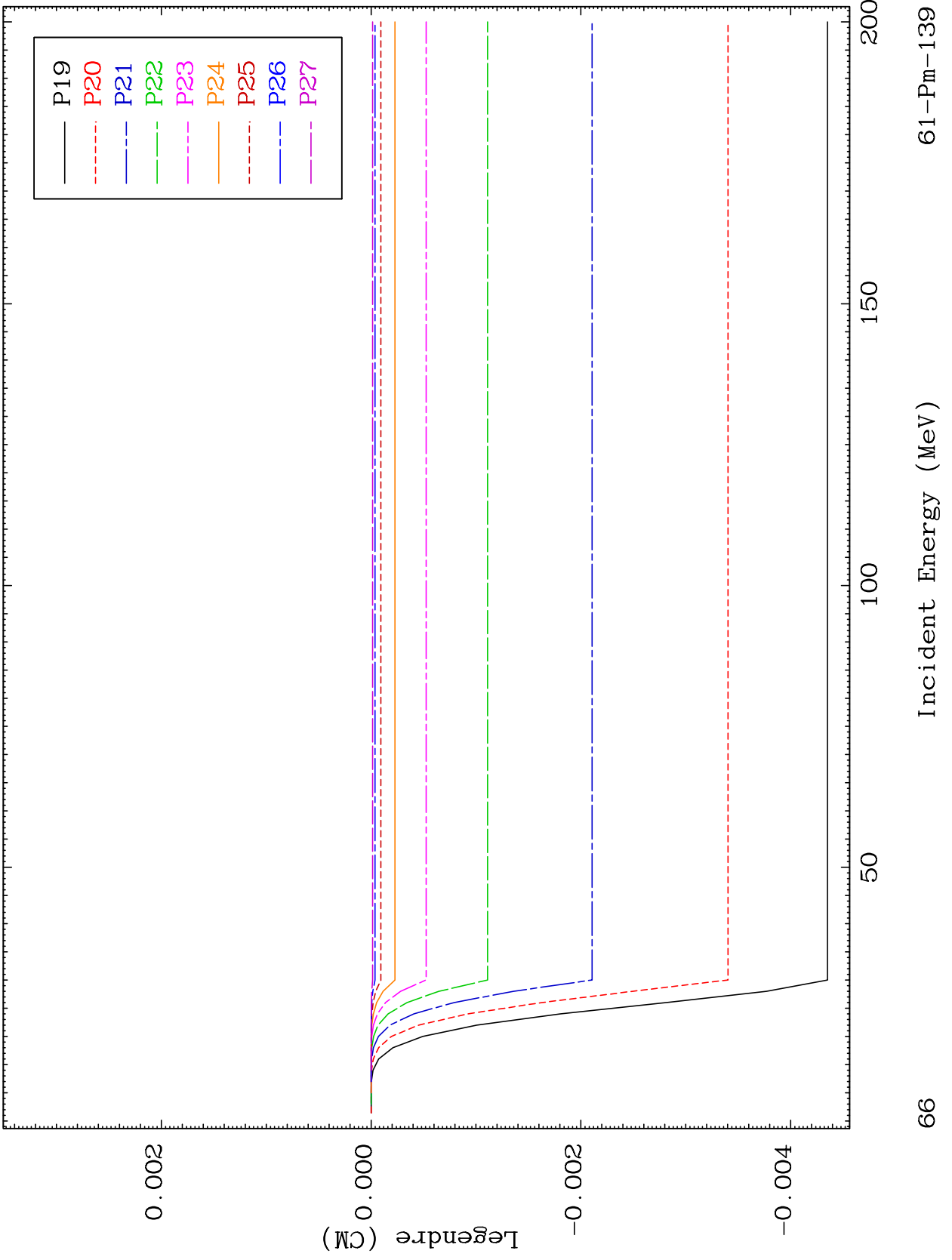
Incident Energy (MeV)

64

MAT 6125

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

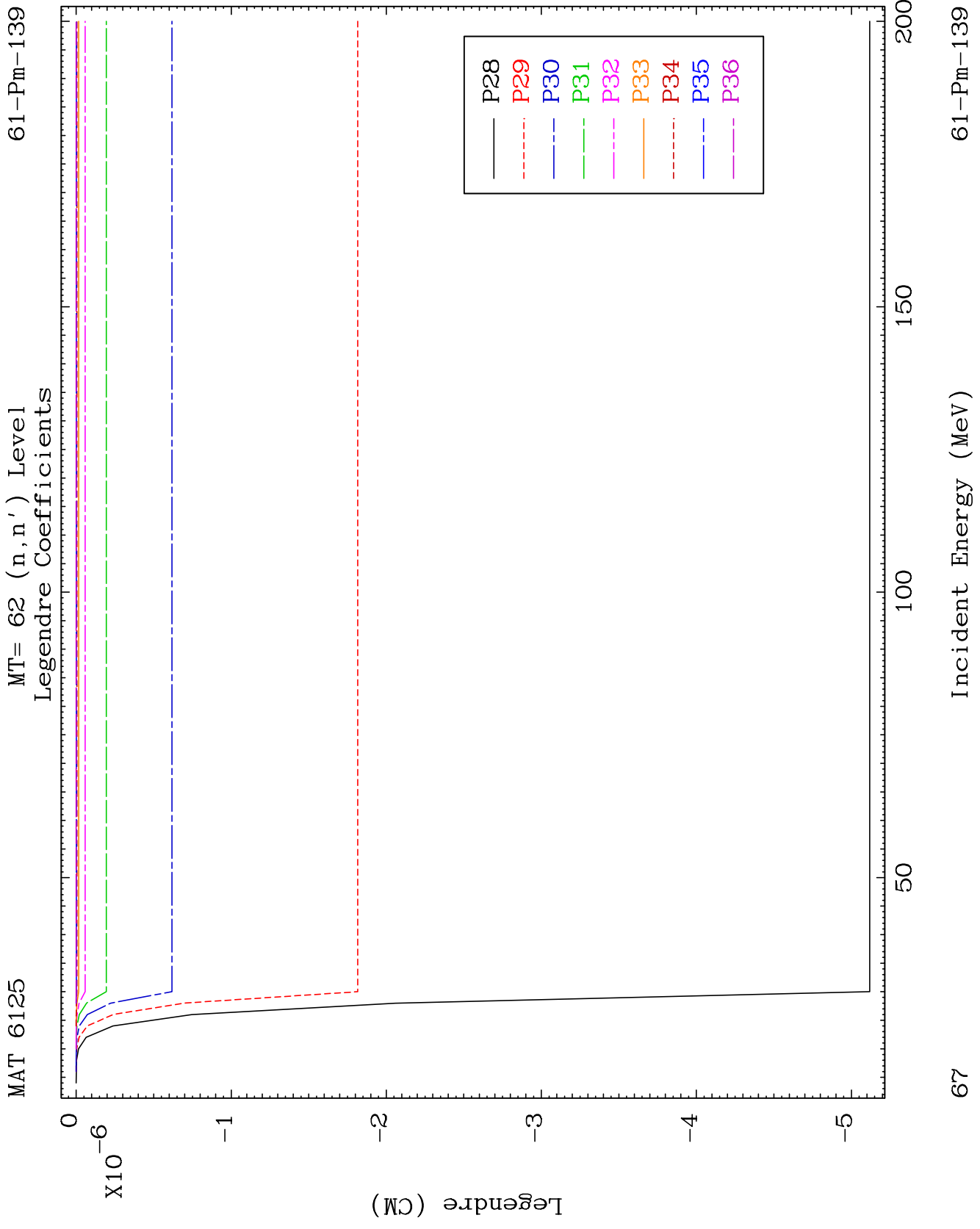
61-Pm-139



66

Incident Energy (MeV)

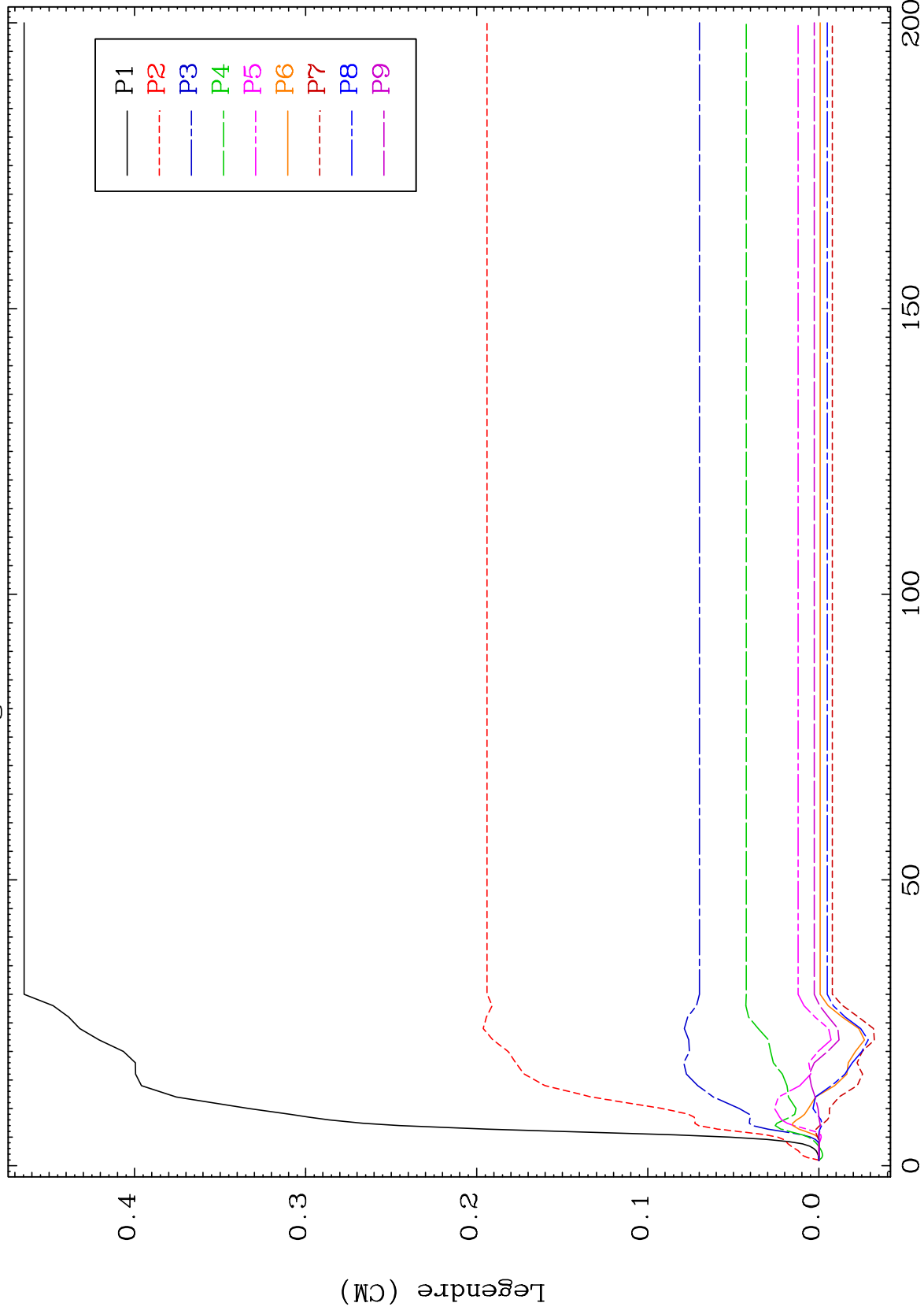
61-Pm-139



MAT 6125

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

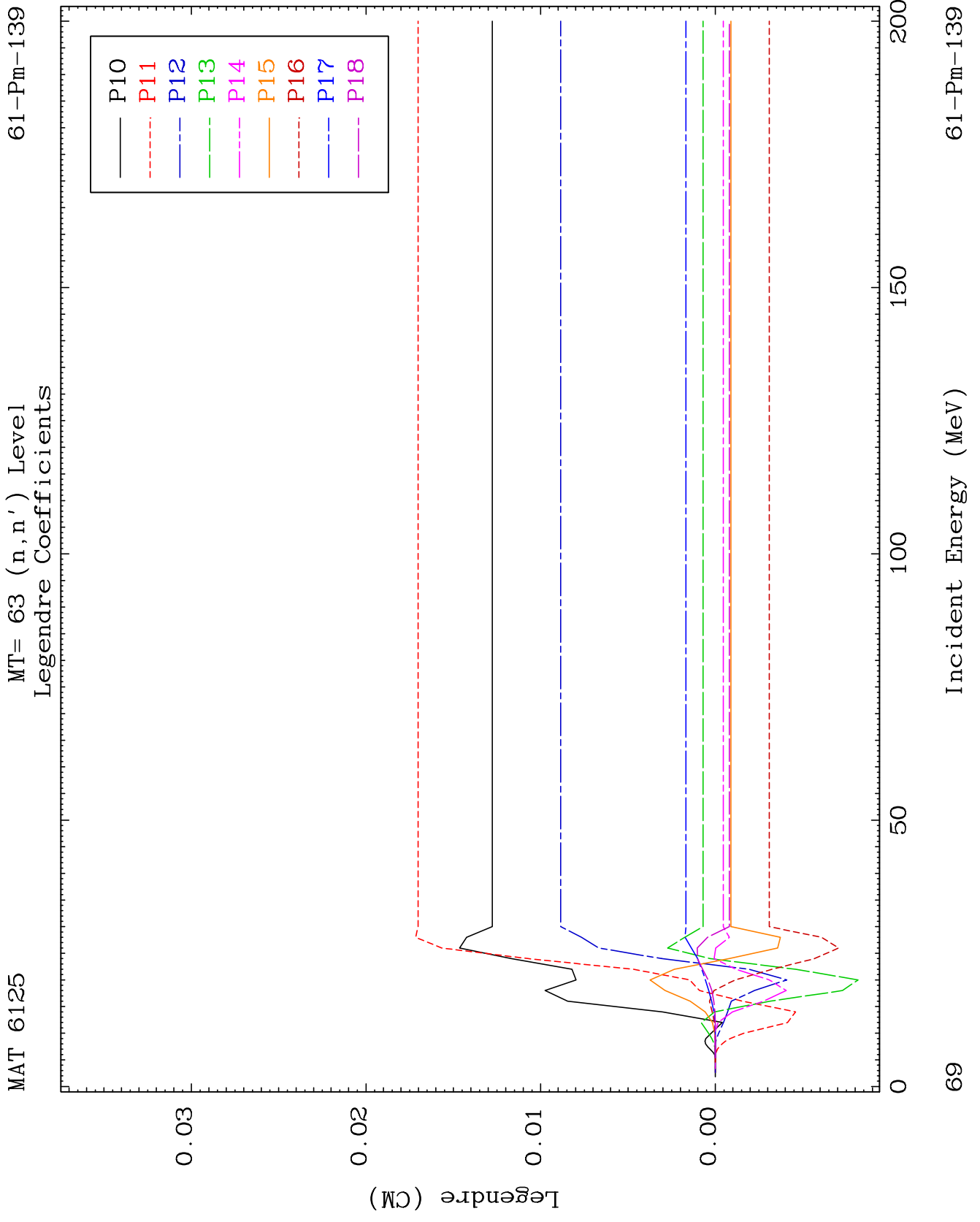
61-Pm-139



68

Incident Energy (MeV)

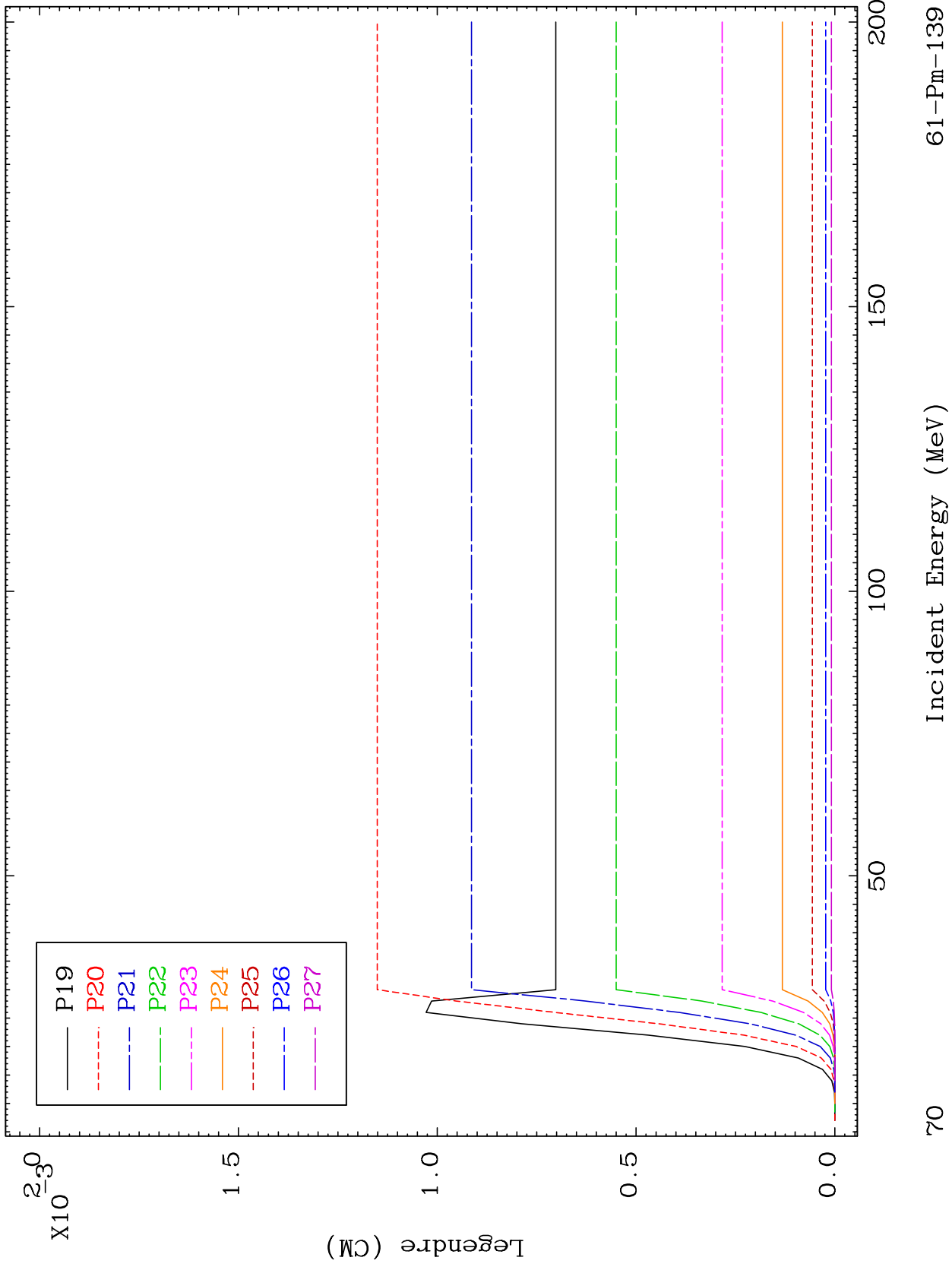
61-Pm-139



MAT 6125

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

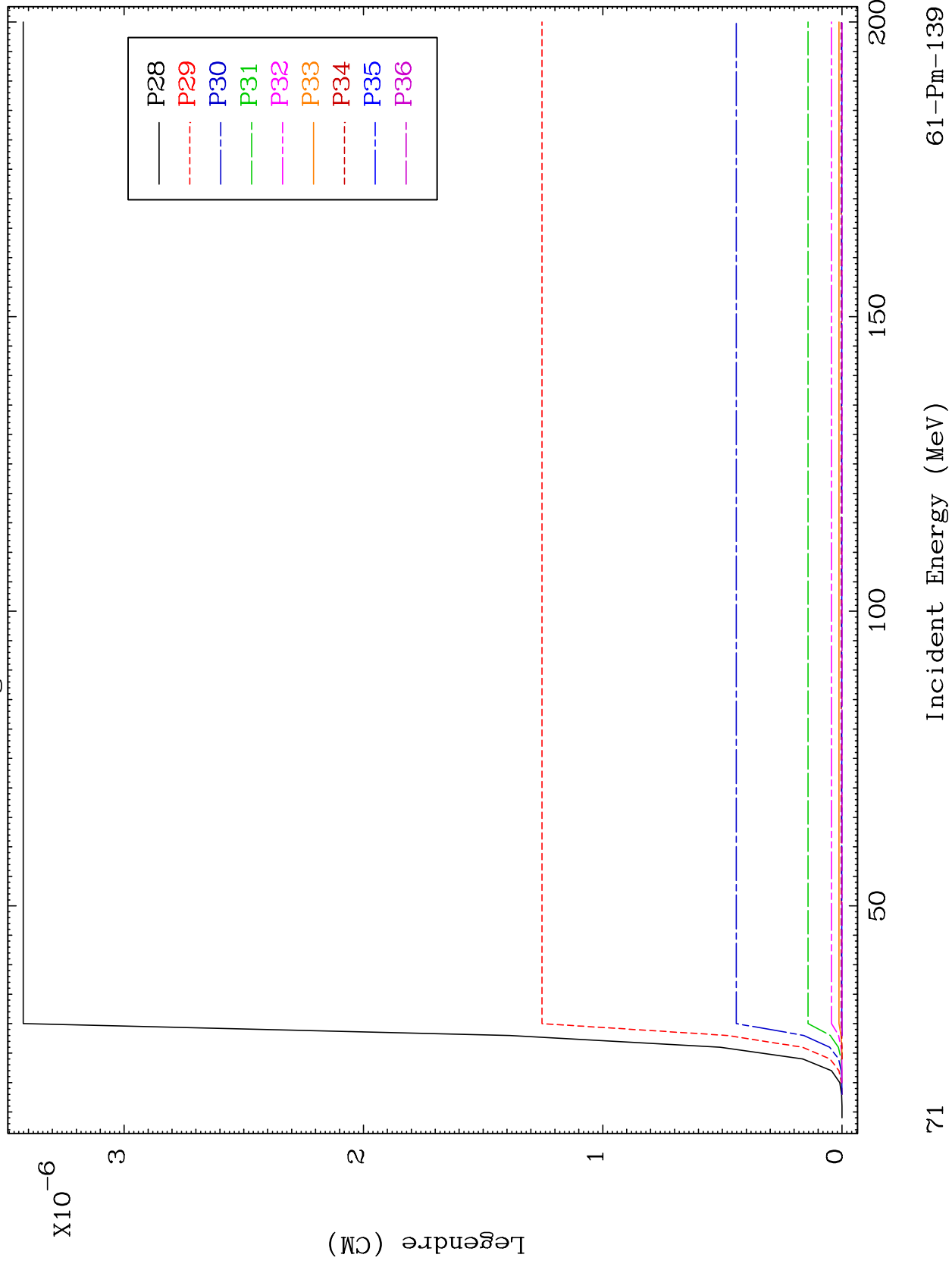
61-Pm-139



MAT 6125

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

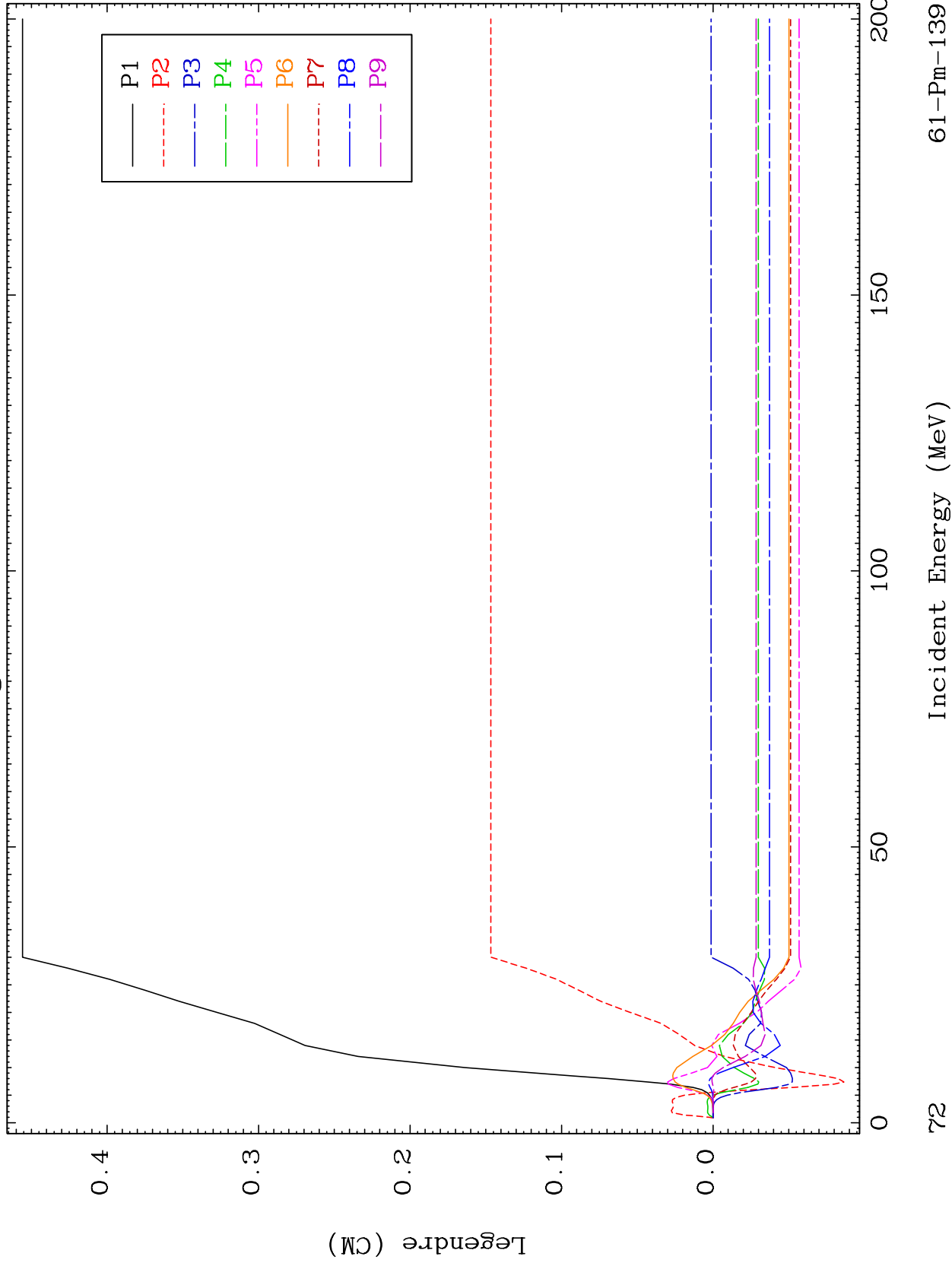
61-Pm-139



MAT 6125

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

61-Pm-139



61-Pm-139

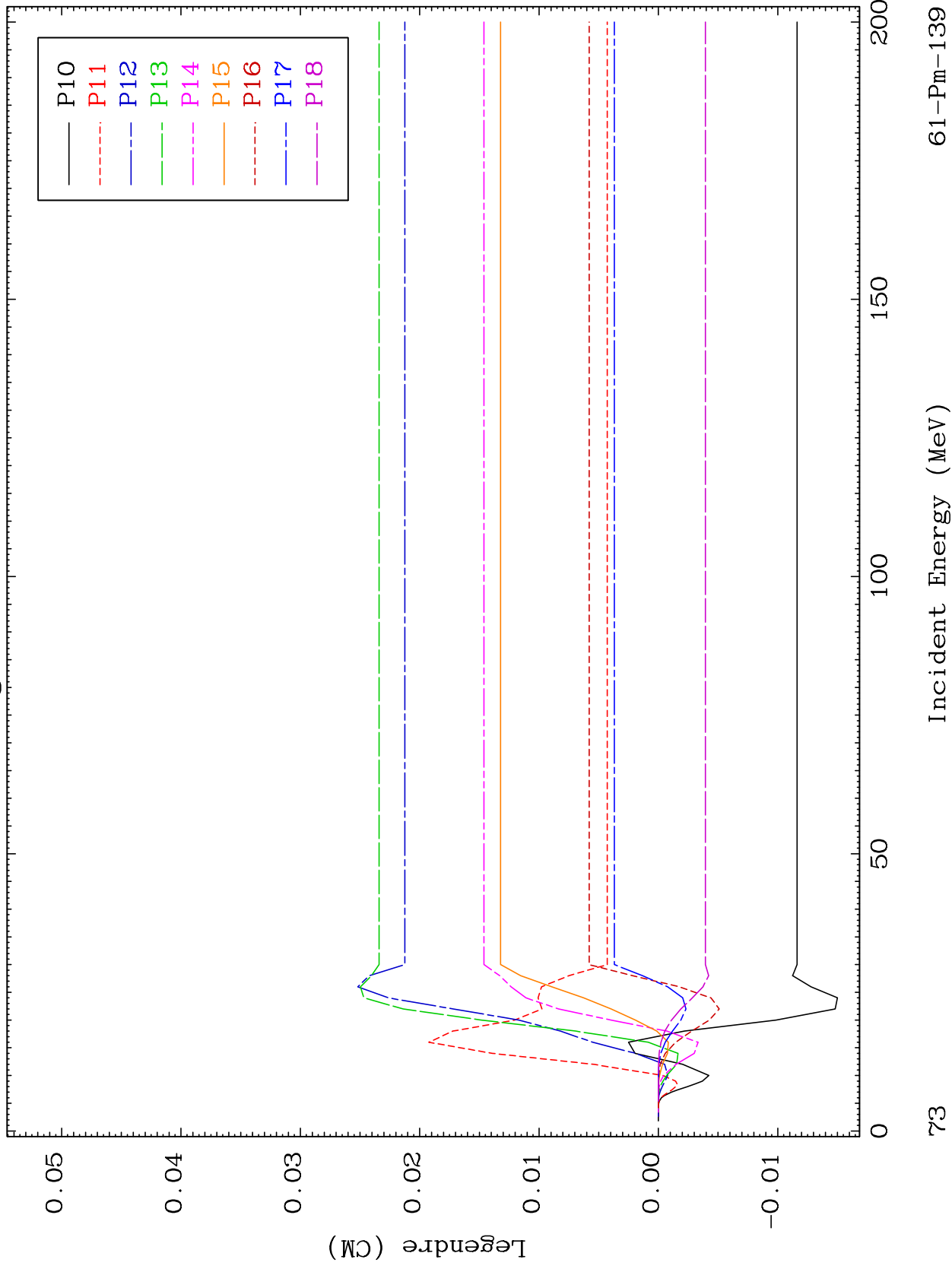
Incident Energy (MeV)

72

MAT 6125

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

61-Pm-139



61-Pm-139

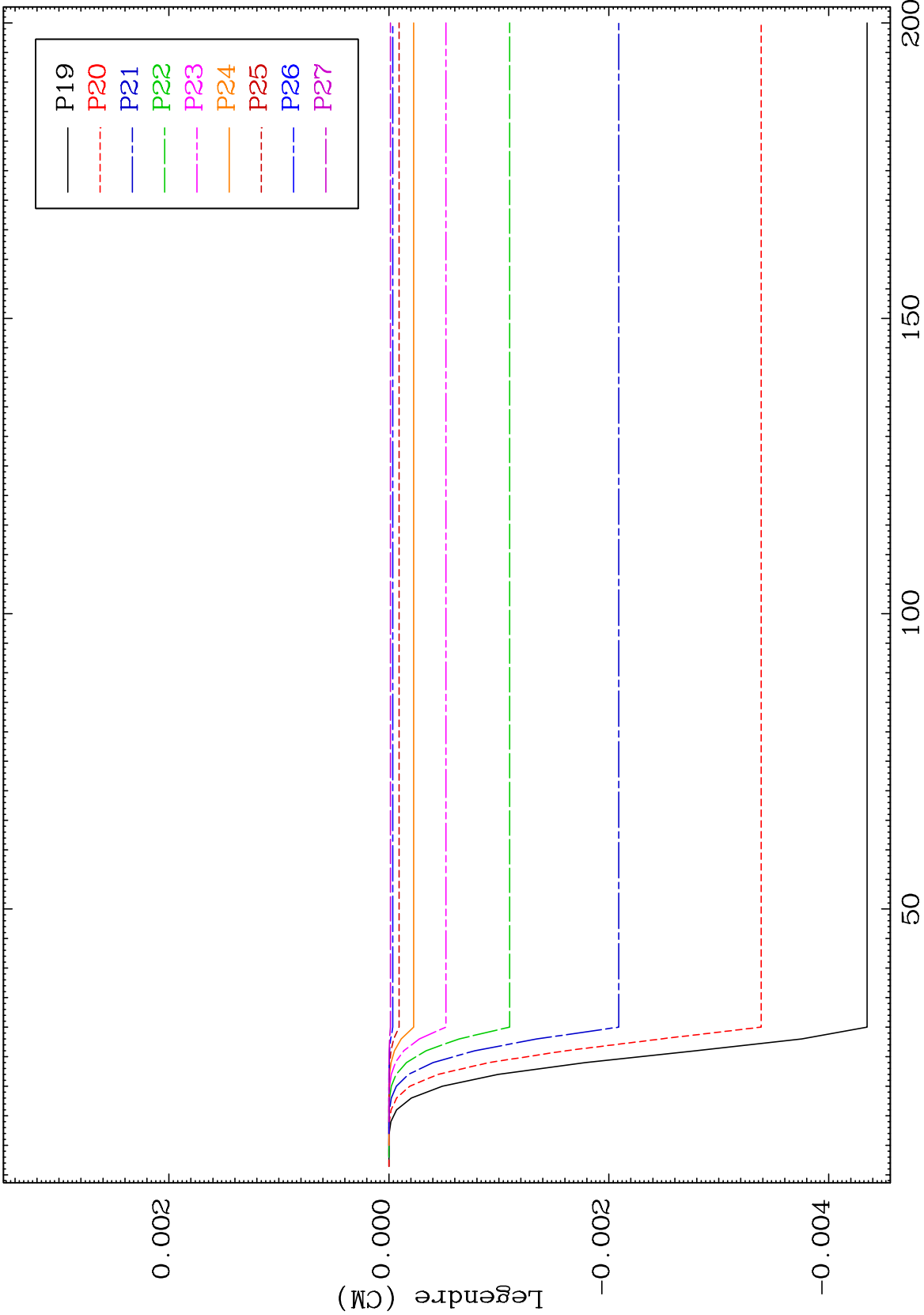
Incident Energy (MeV)

73

MAT 6125

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

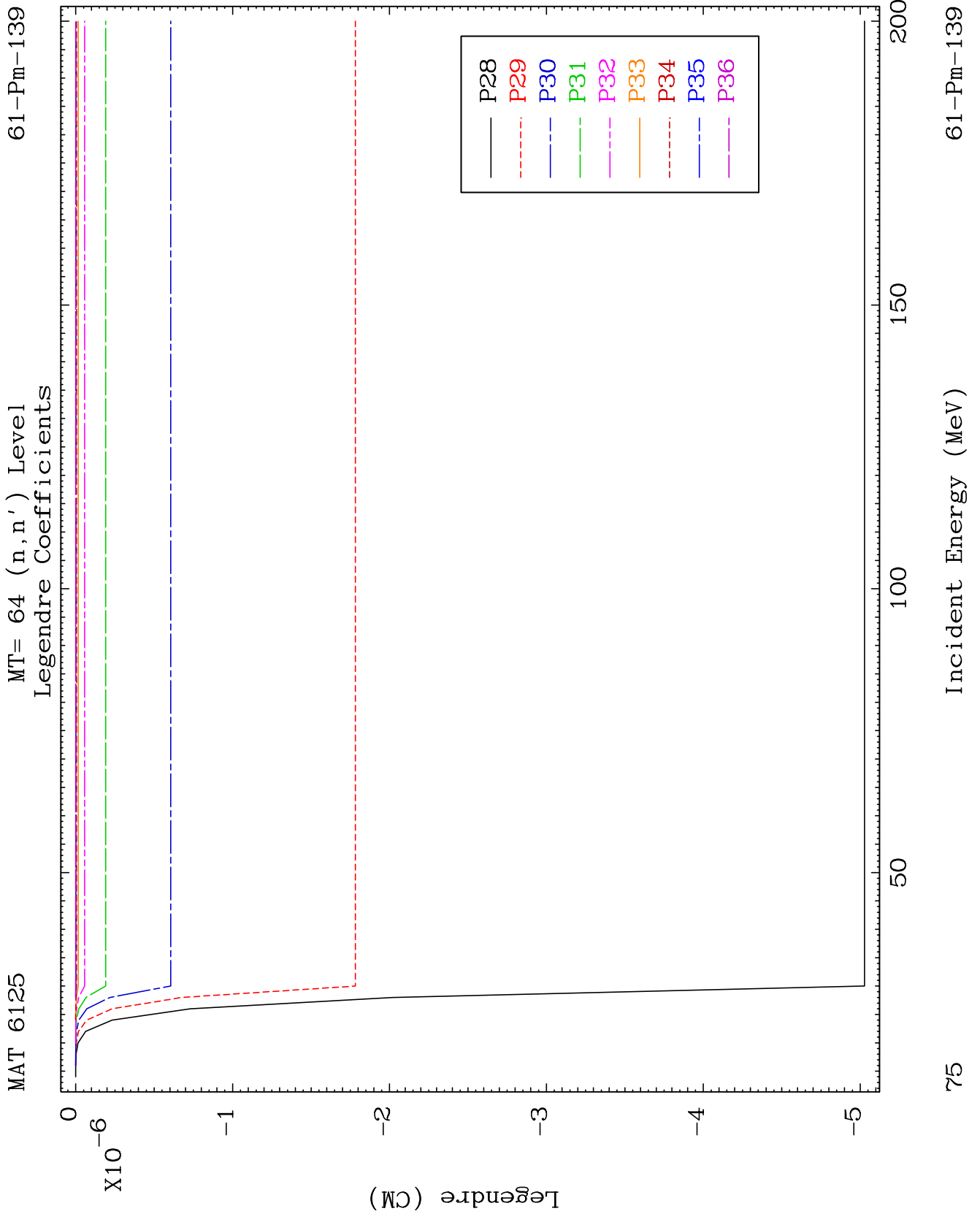
61-Pm-139

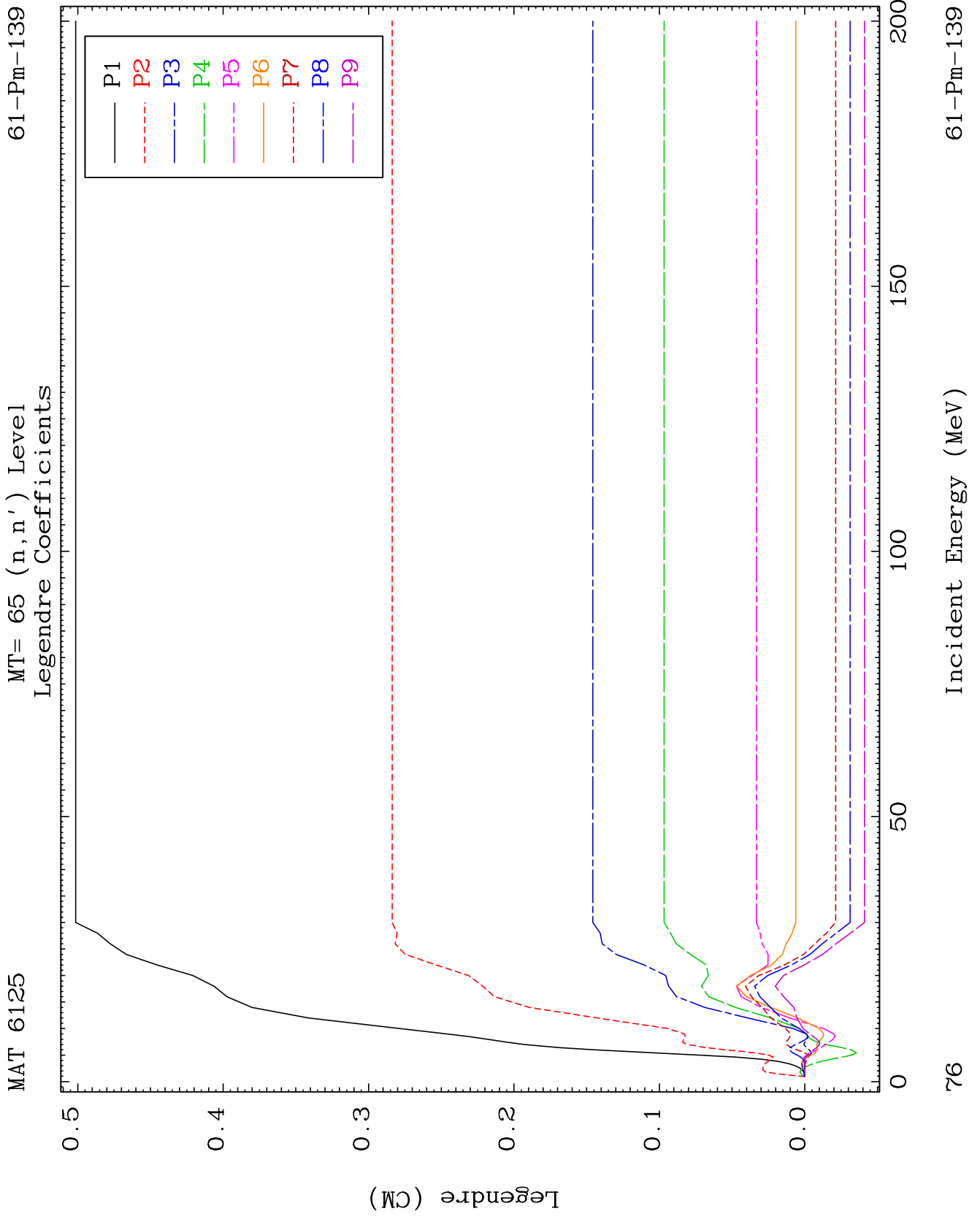


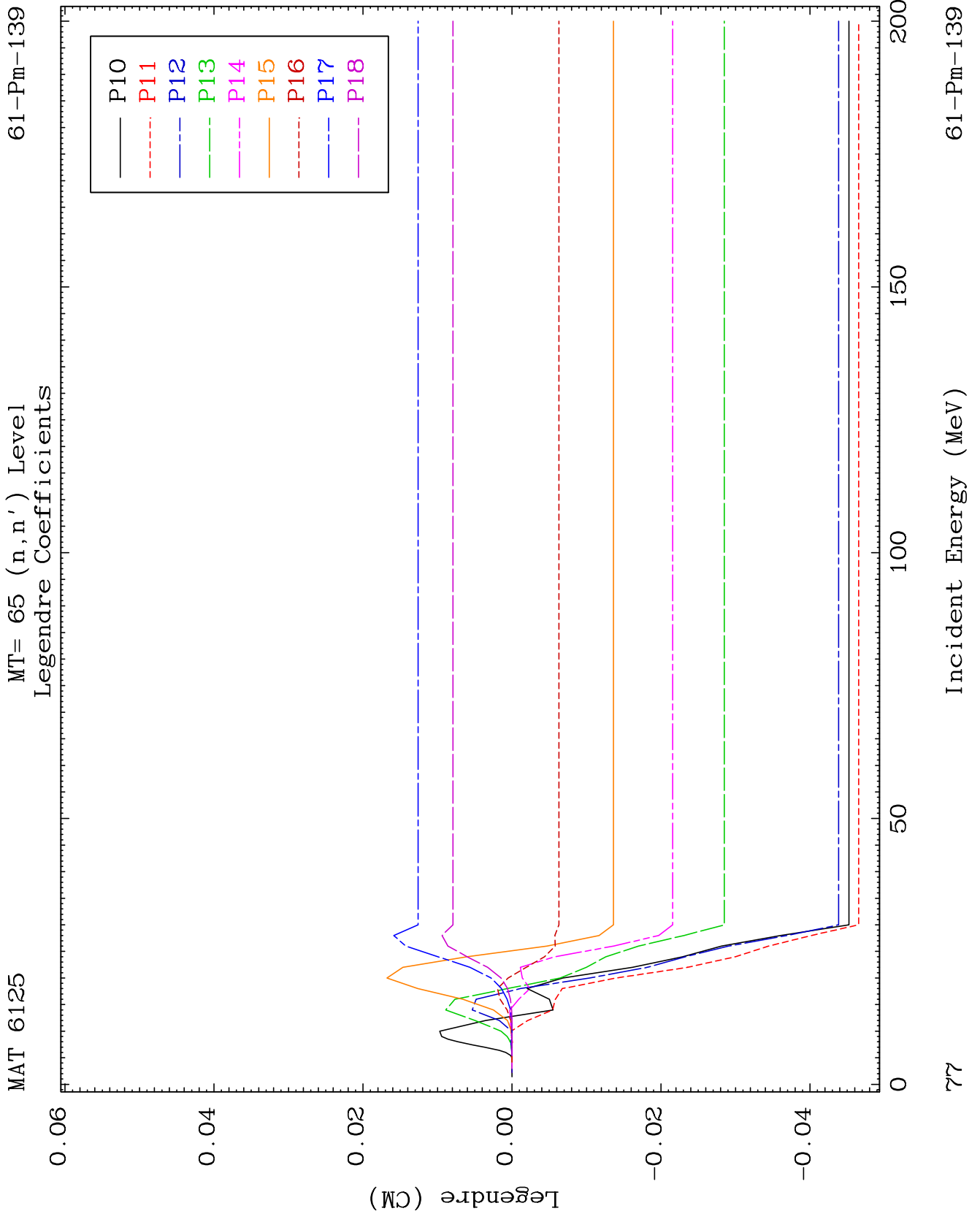
74

Incident Energy (MeV)

61-Pm-139



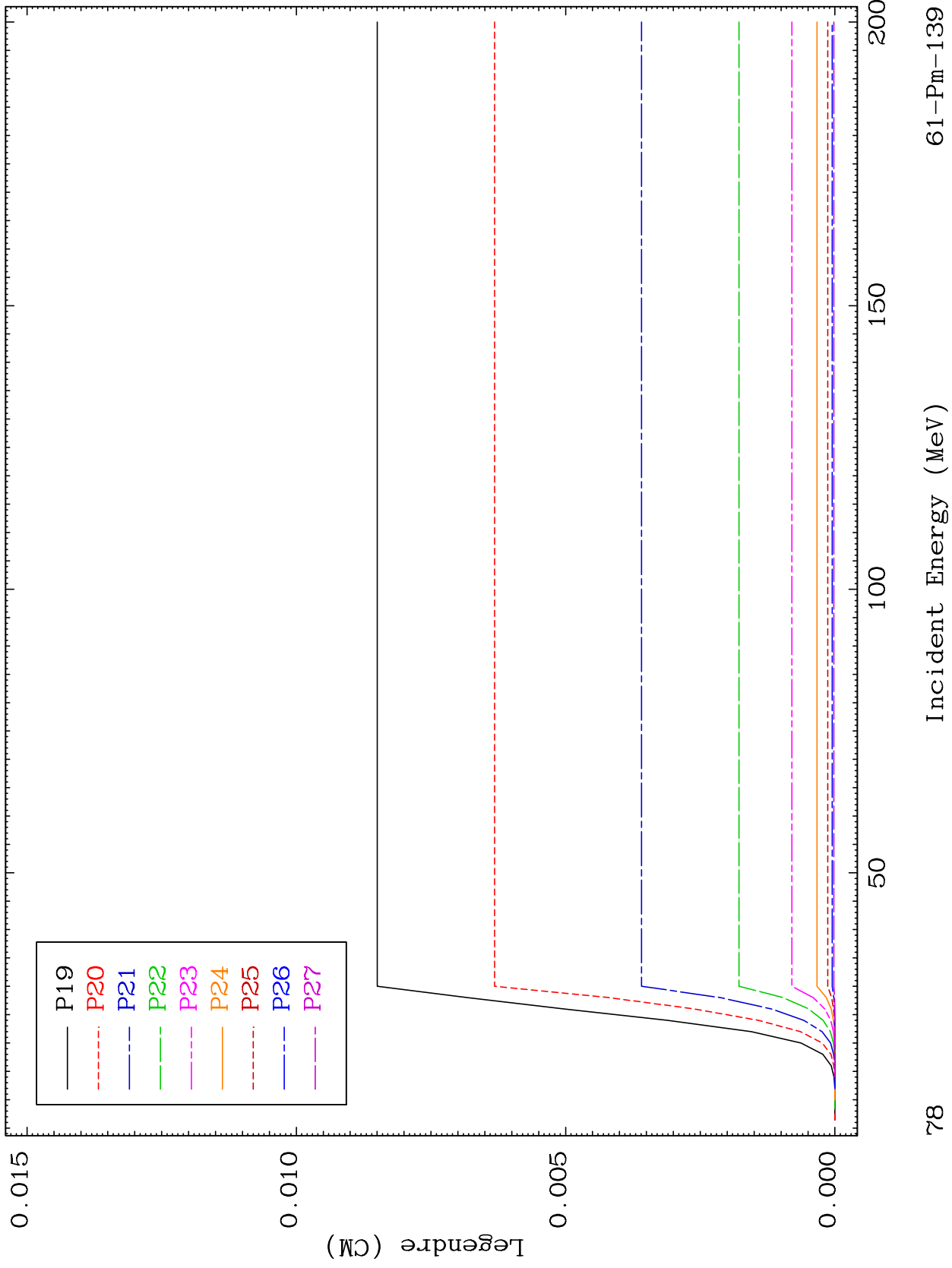




MAT 6125

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

61-Pm-139



78

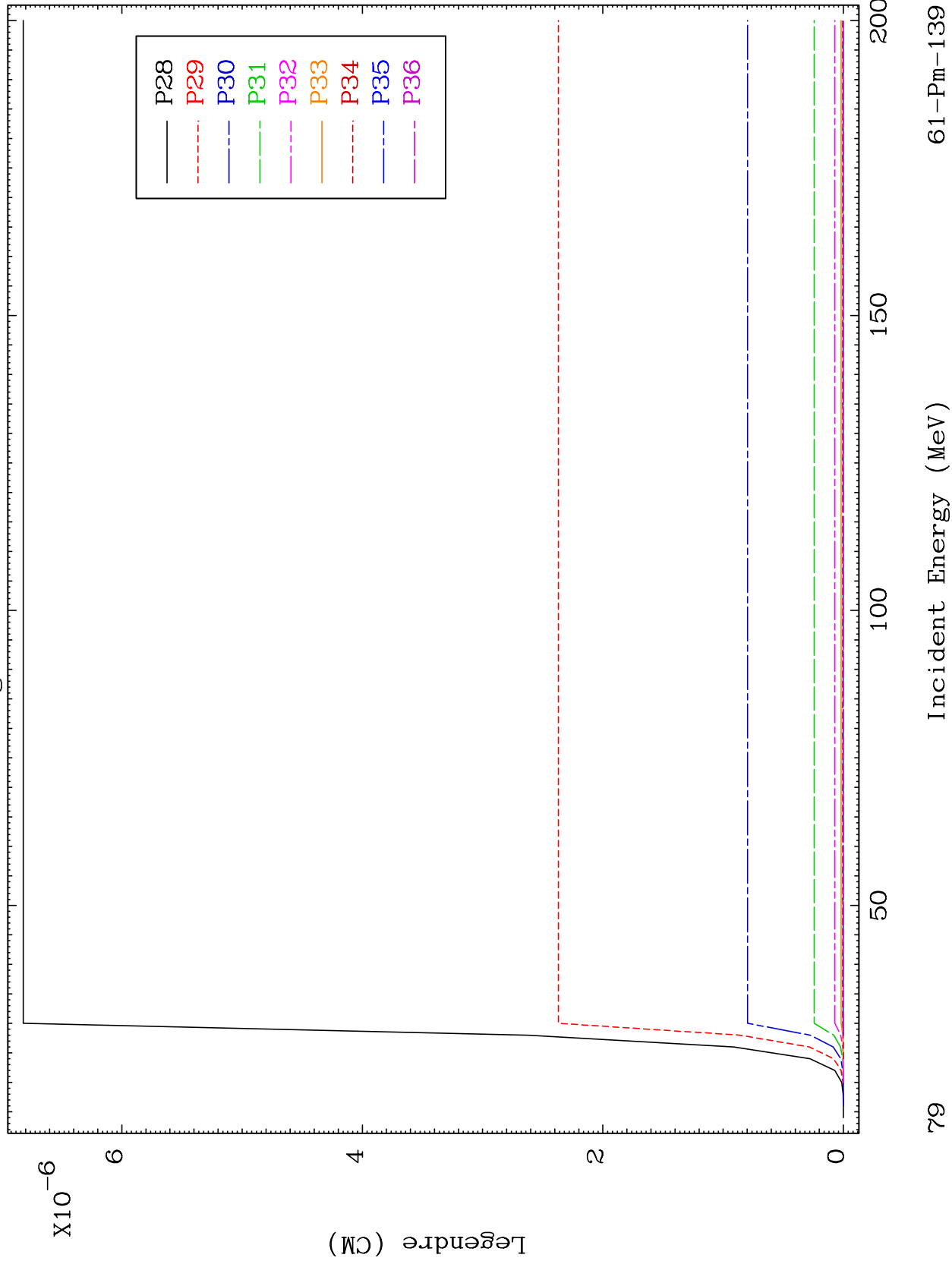
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

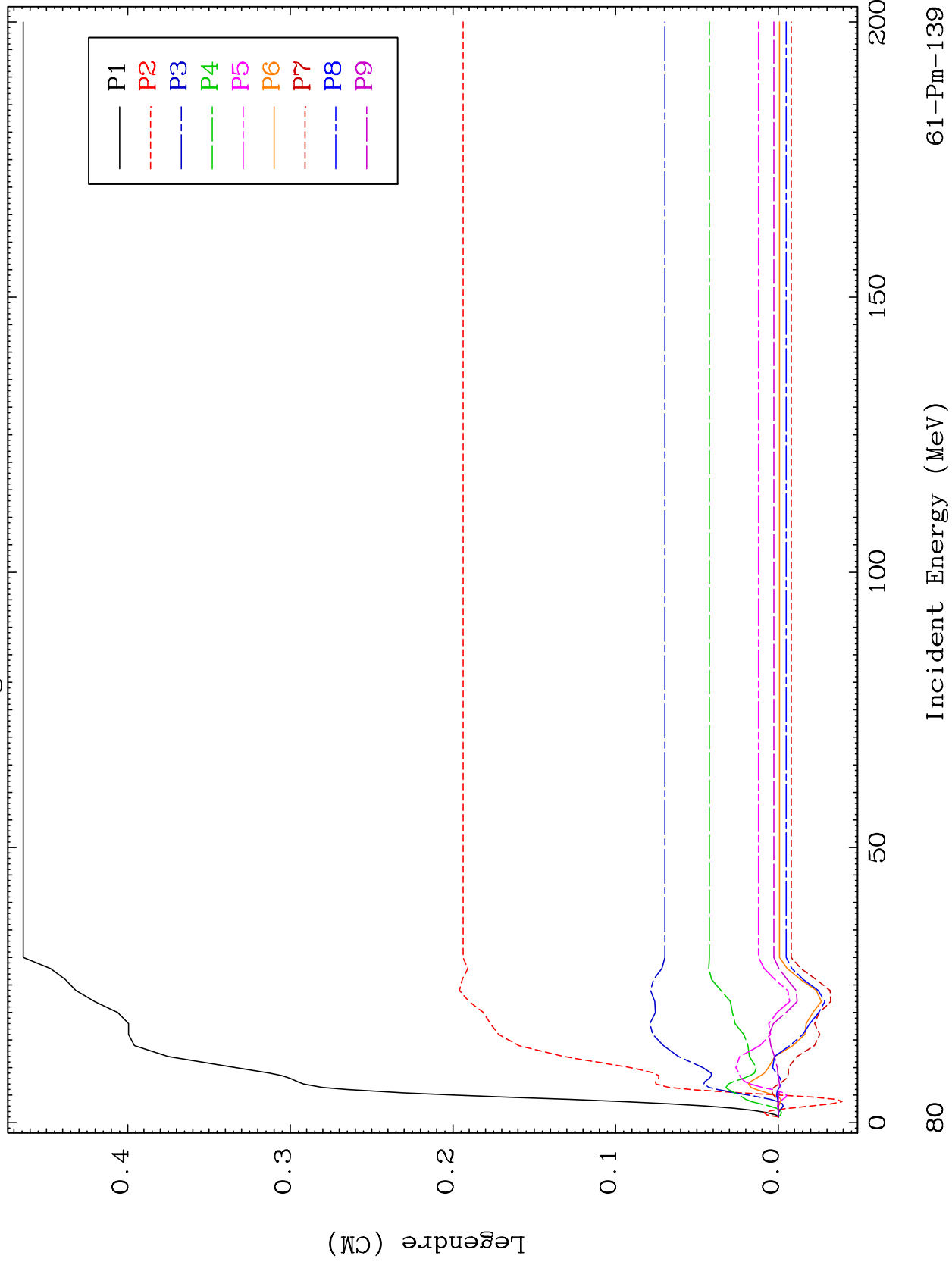
61-Pm-139



MAT 6125

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

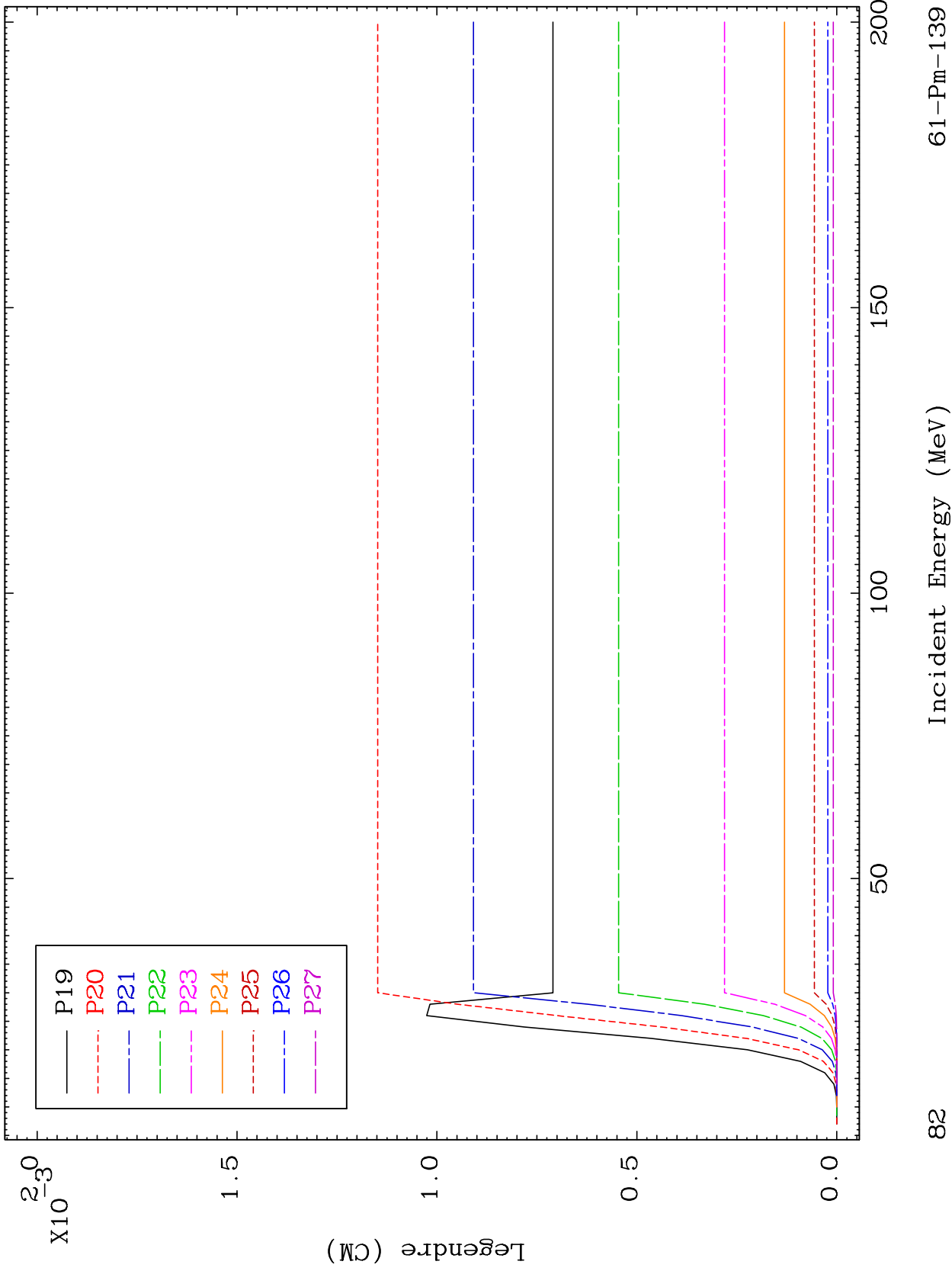
61-Pm-139



MAT 6125

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

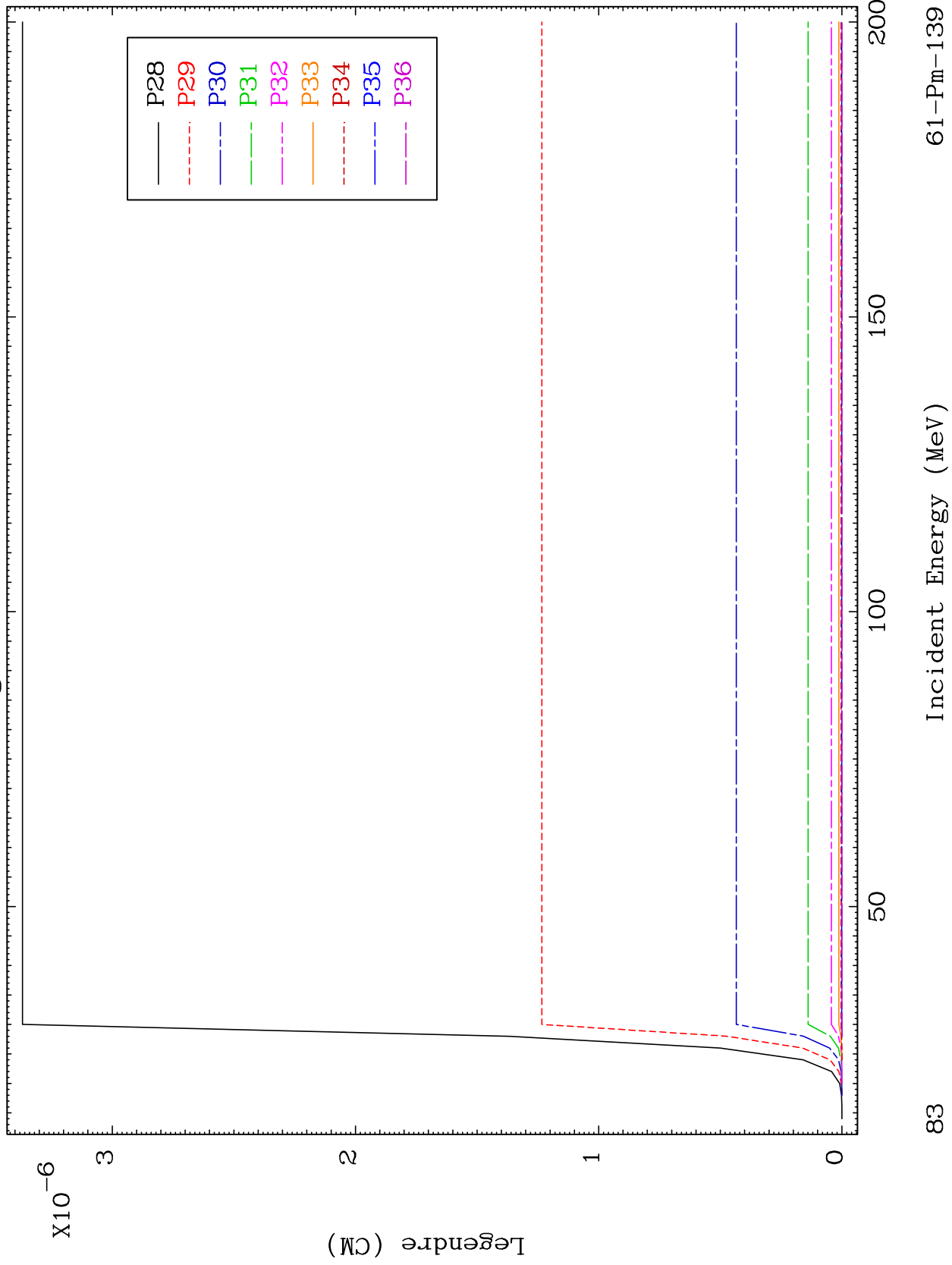
61-Pm-139



MAT 6125

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

61-Pm-139

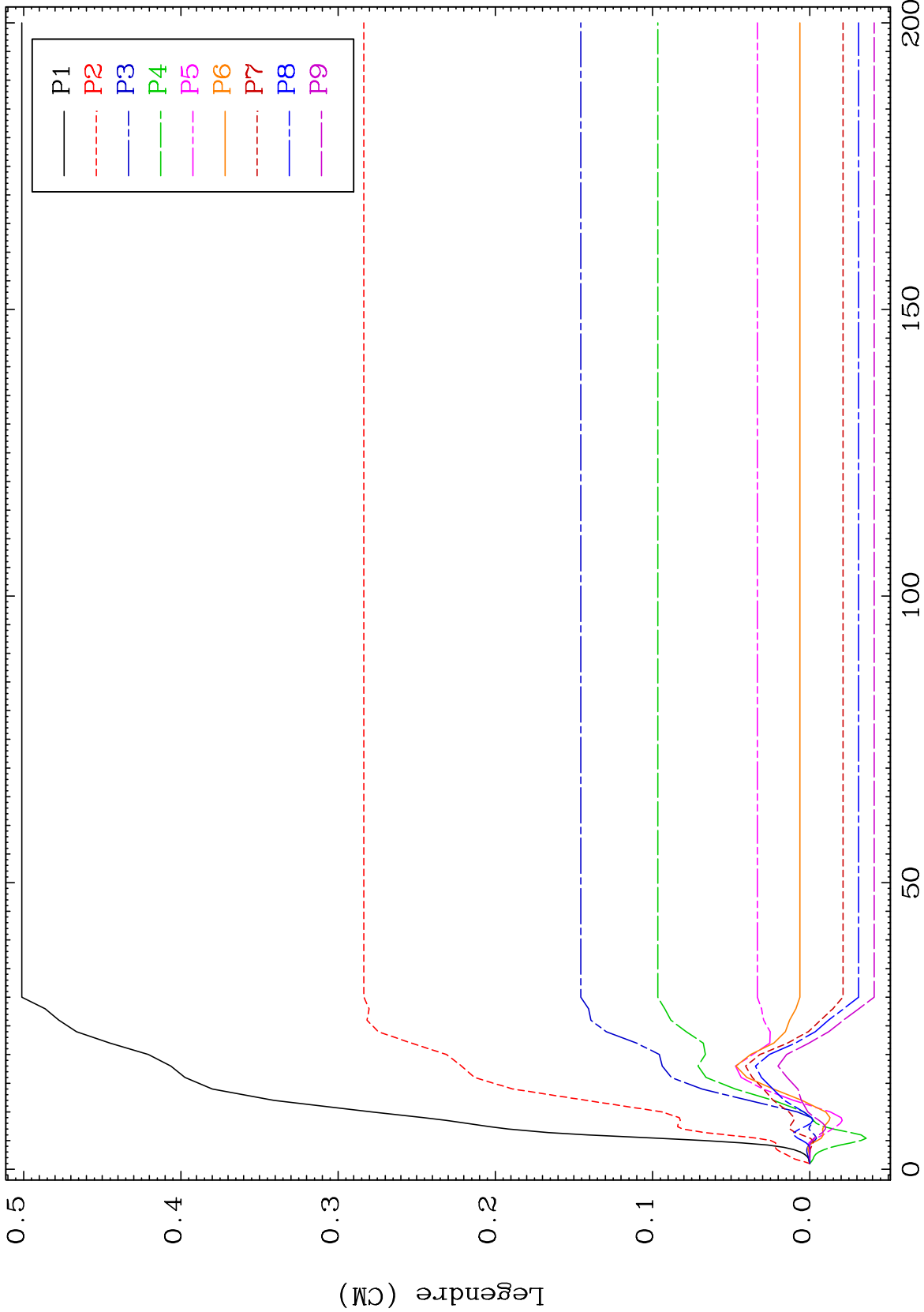


MAT 6125

MT= 67 (n,n') Level

61-Pm-139

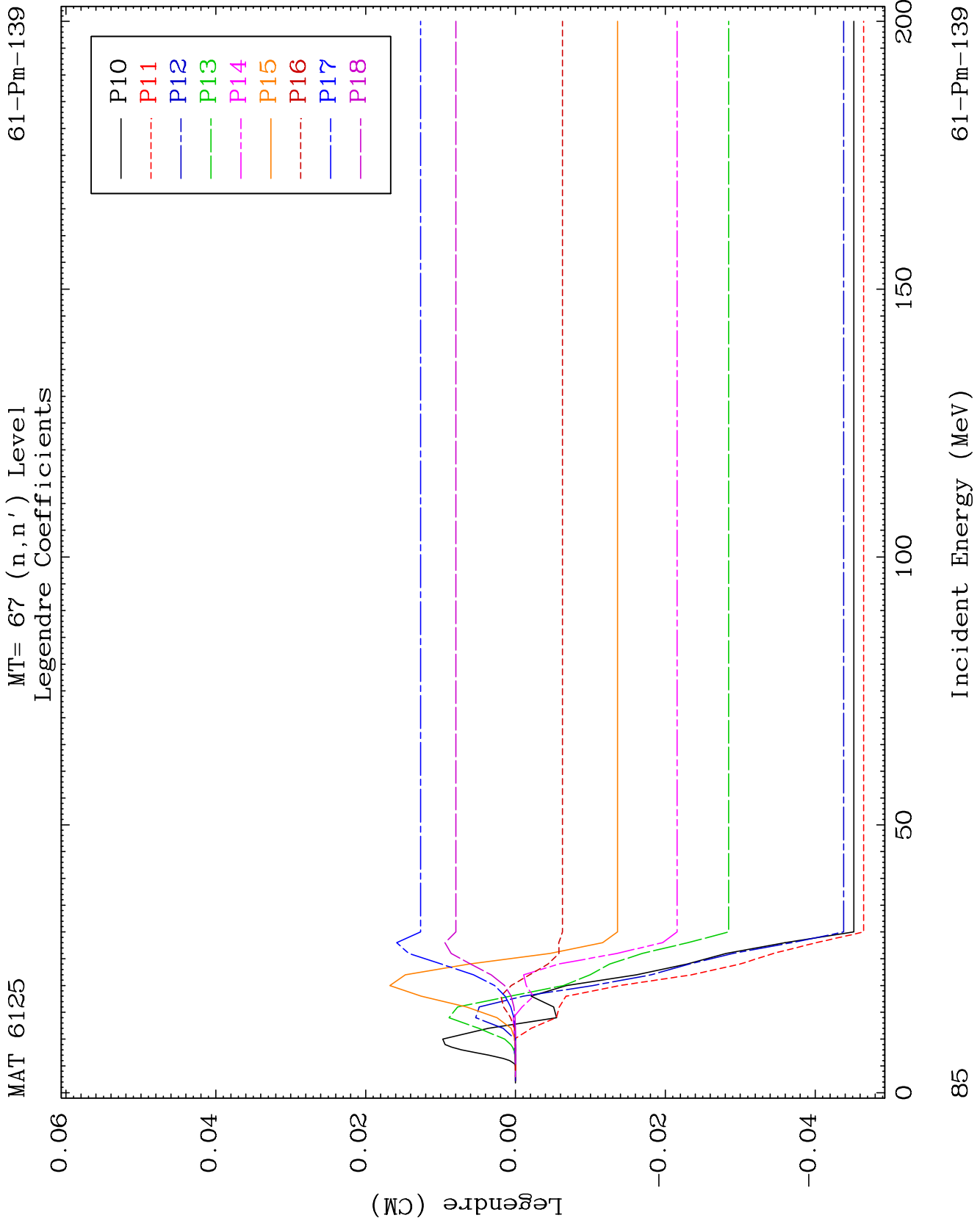
Legendre Coefficients



84

Incident Energy (MeV)

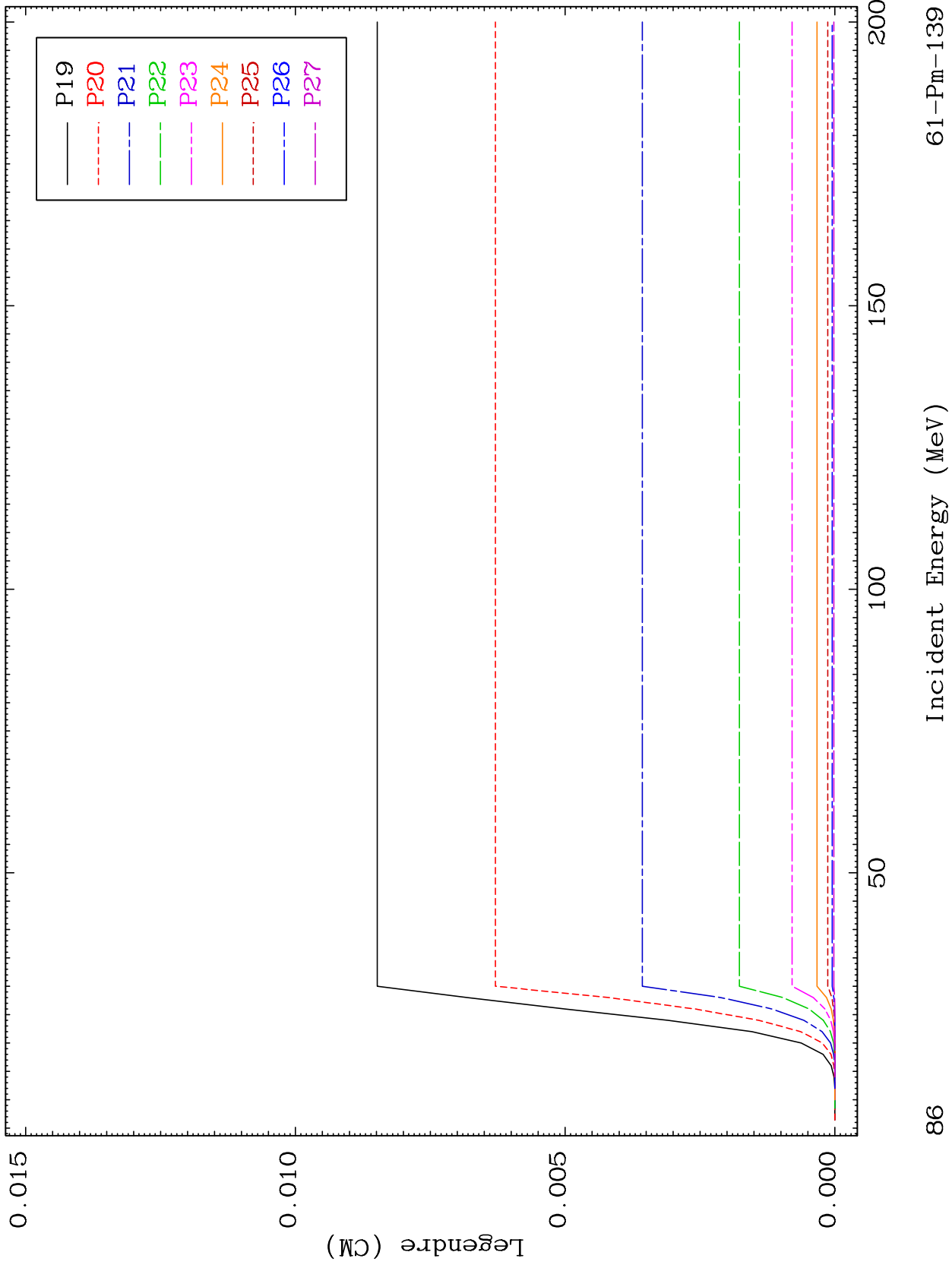
61-Pm-139



MAT 6125

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

61-Pm-139



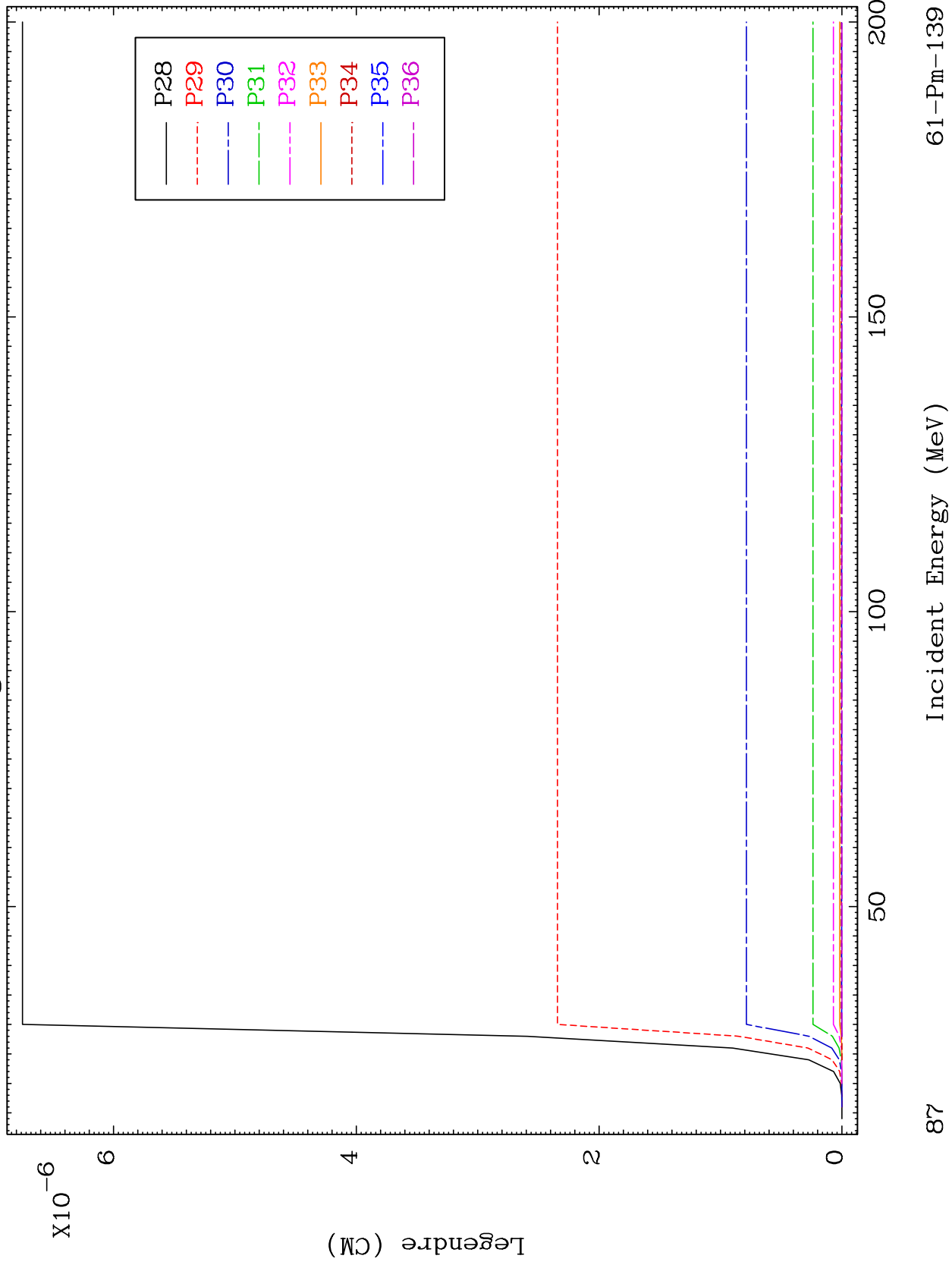
86

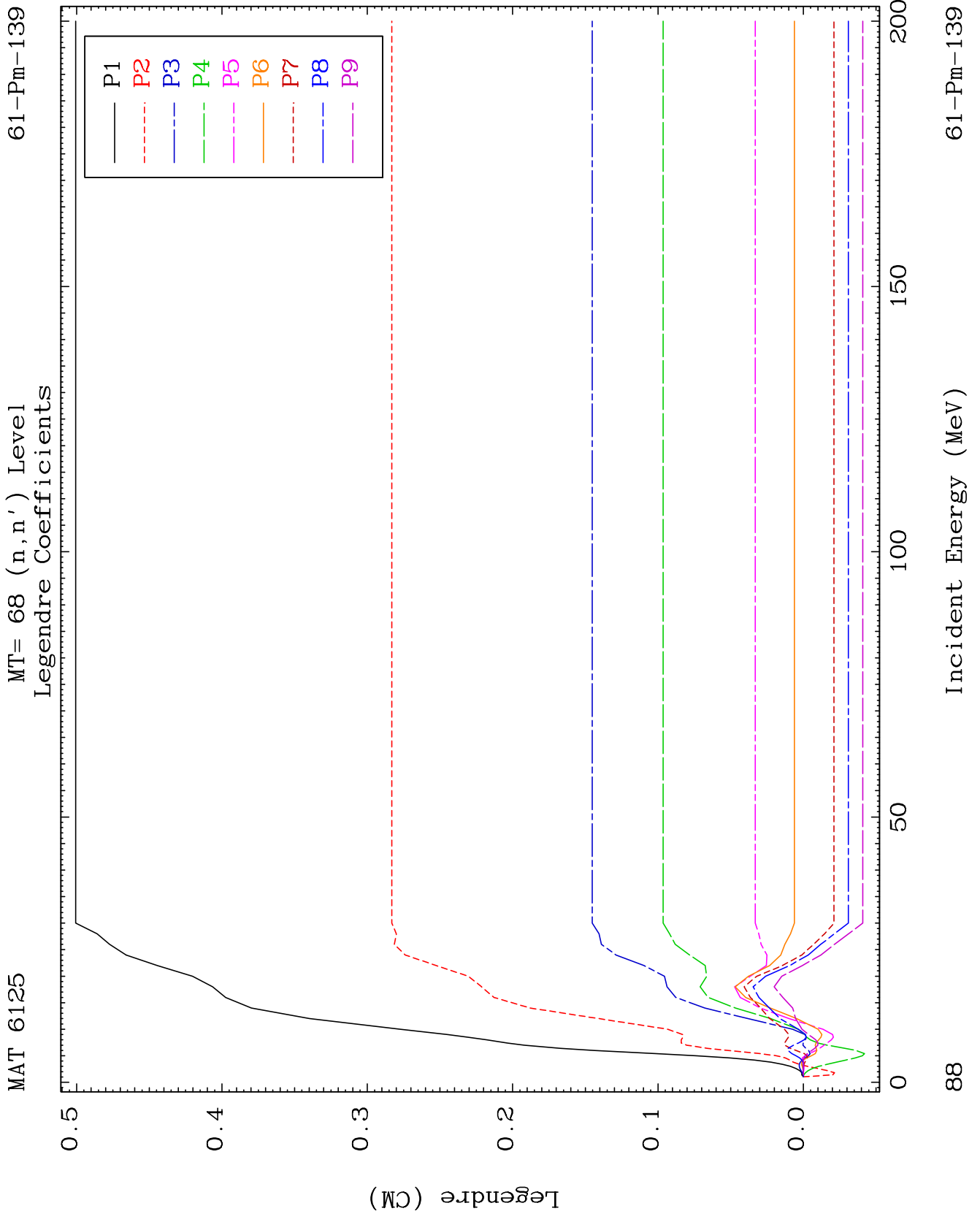
61-Pm-139

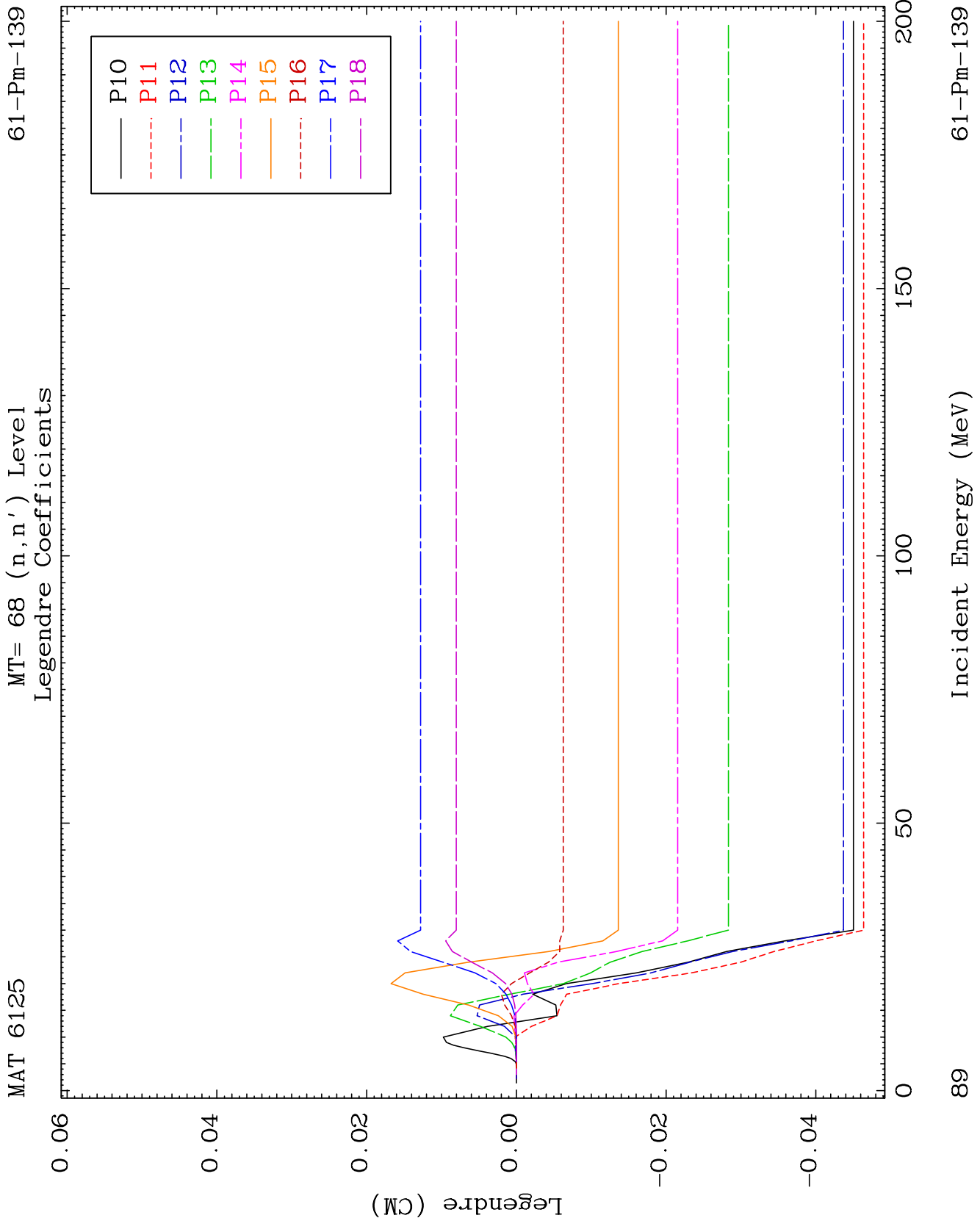
MAT 6125

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

61-Pm-139



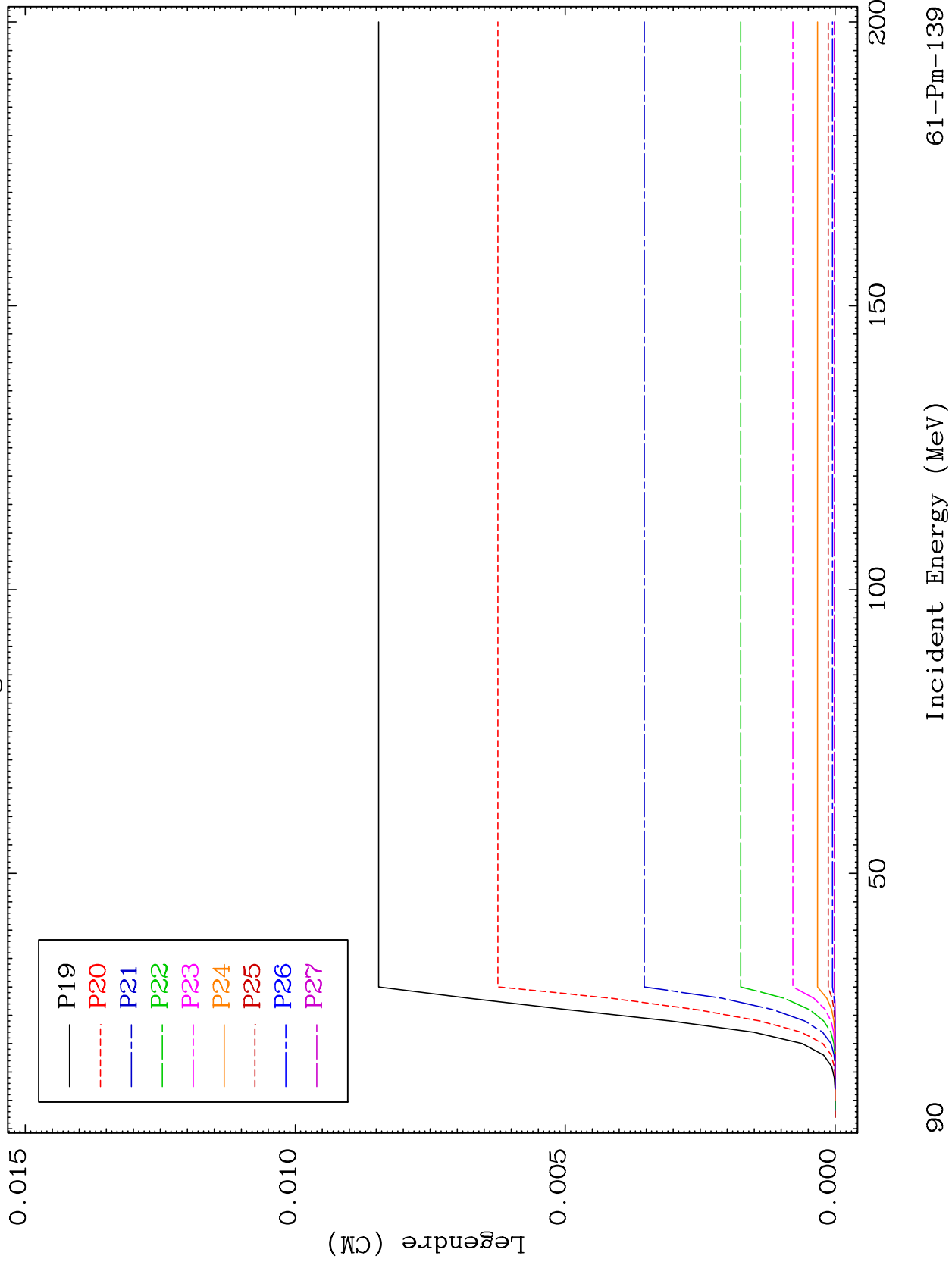




MAT 6125

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

61-Pm-139



90

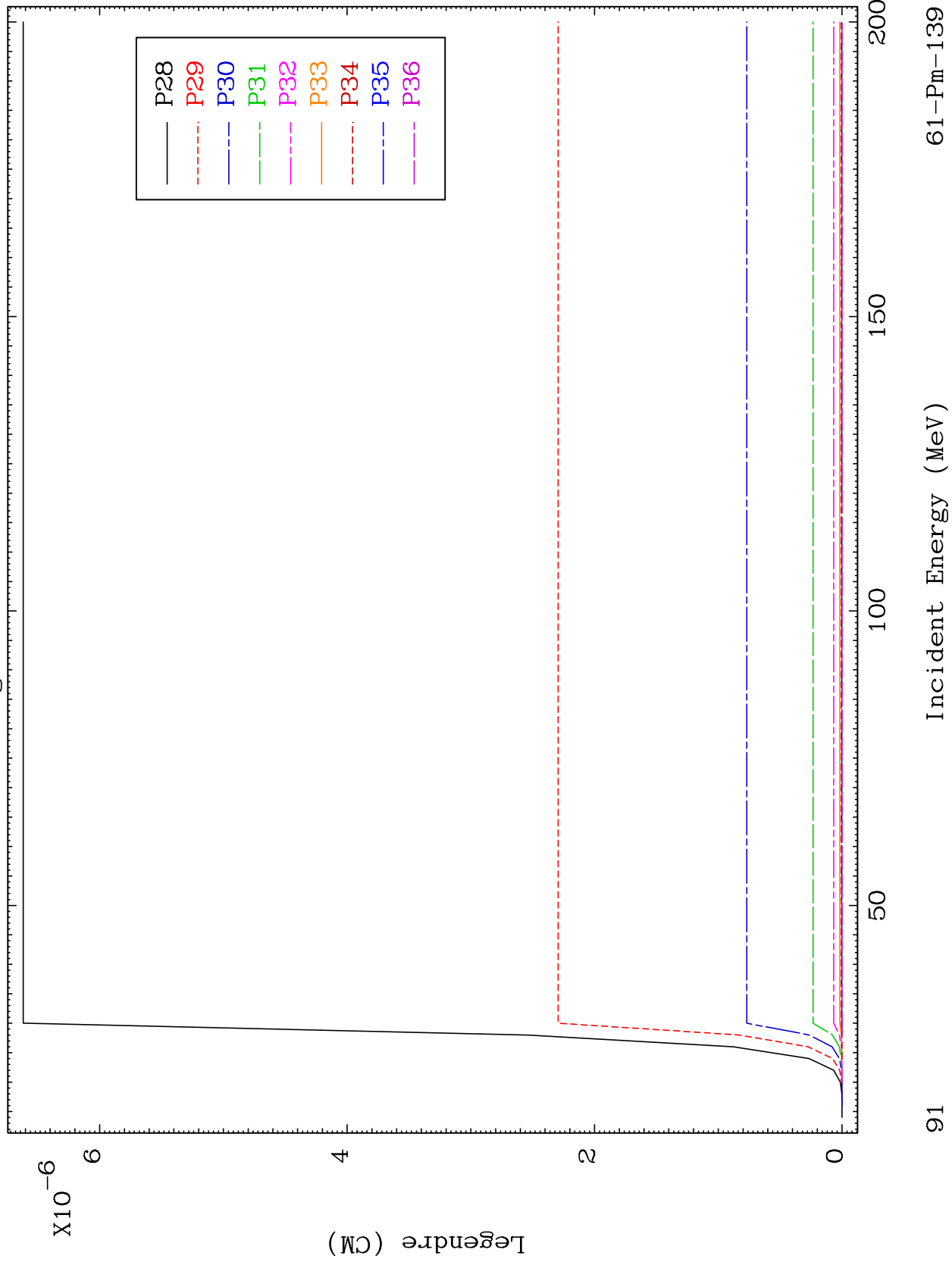
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139

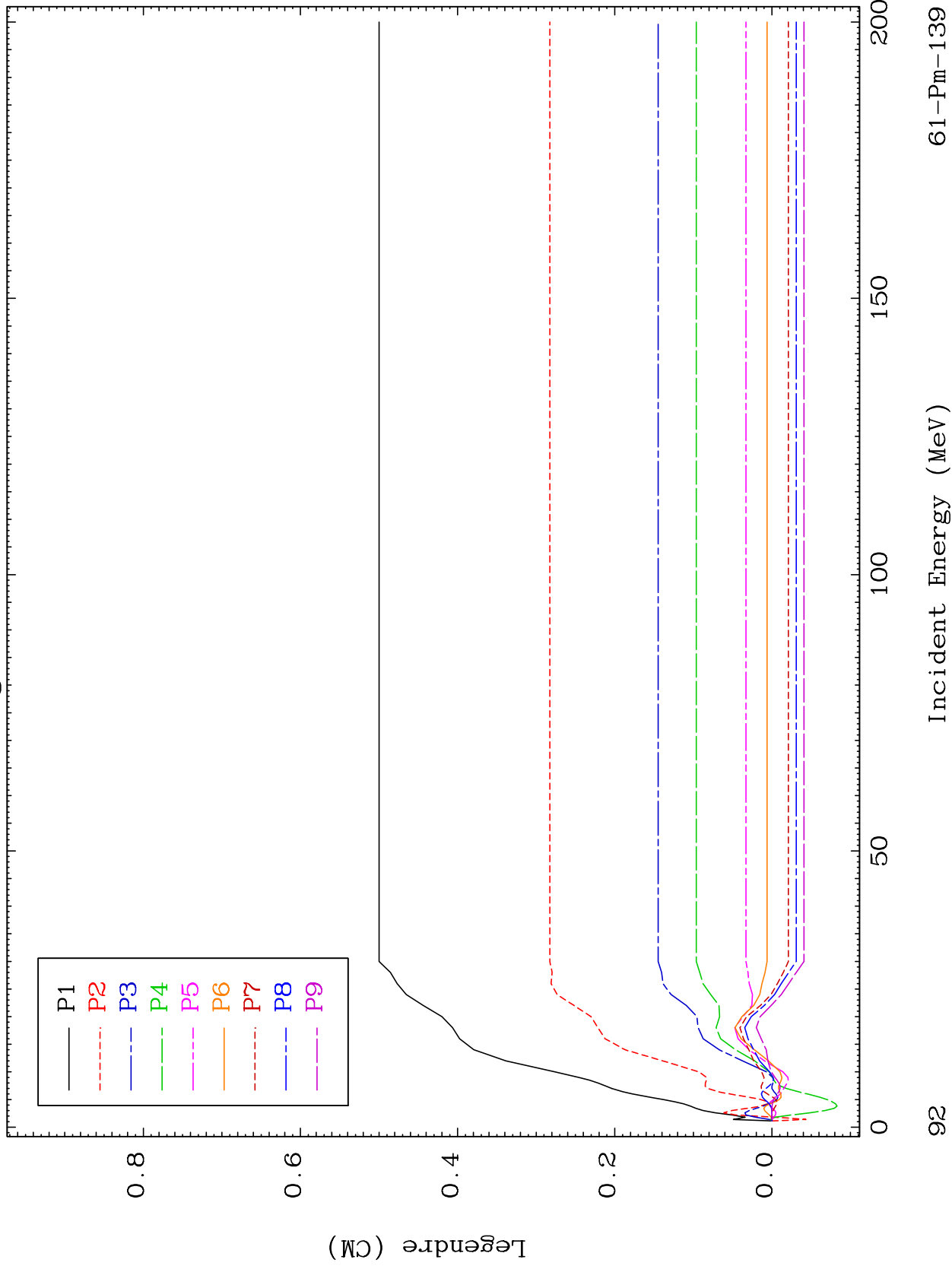


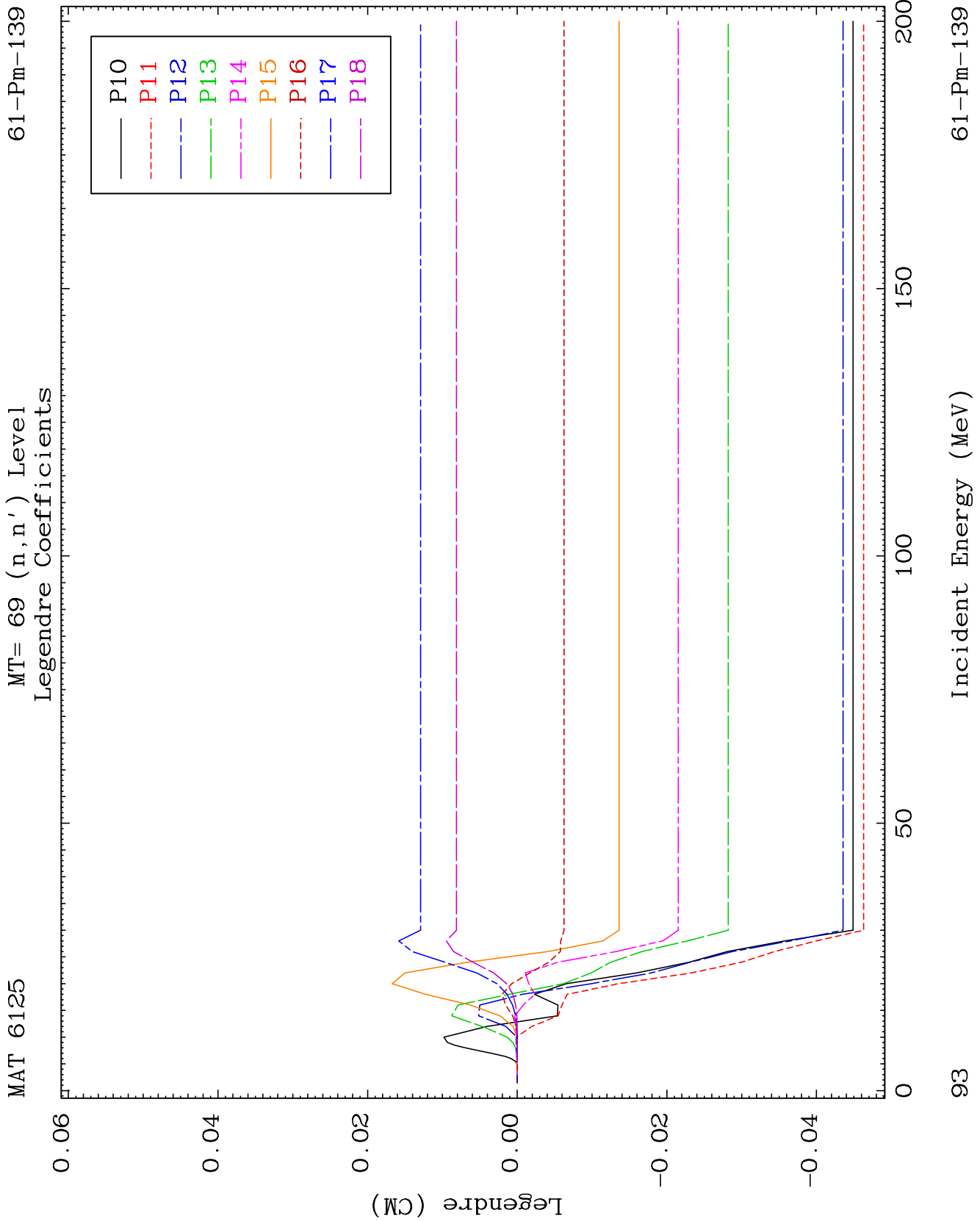
91

MAT 6125

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

61-Pm-139

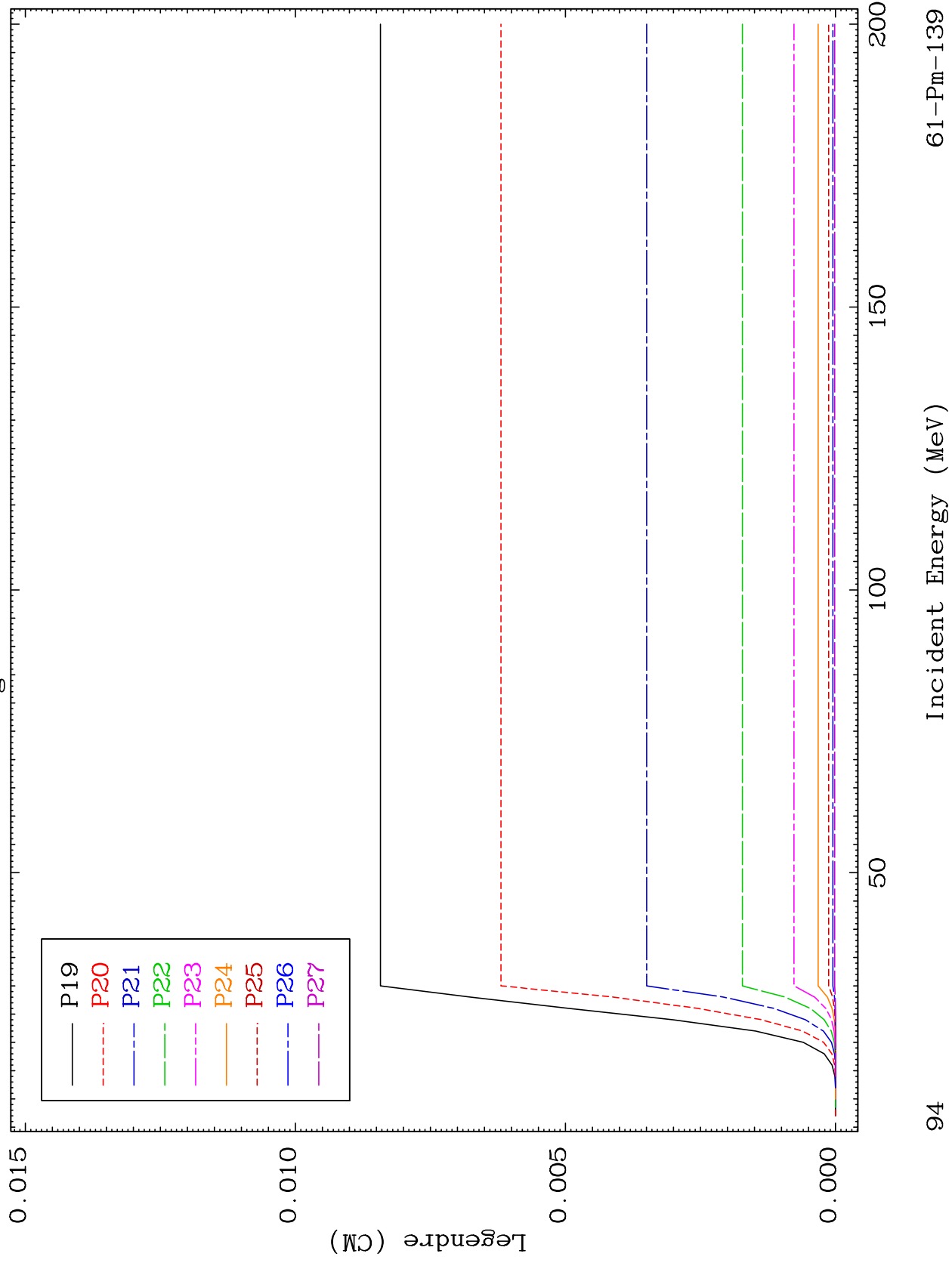




MAT 6125

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

61-Pm-139



94

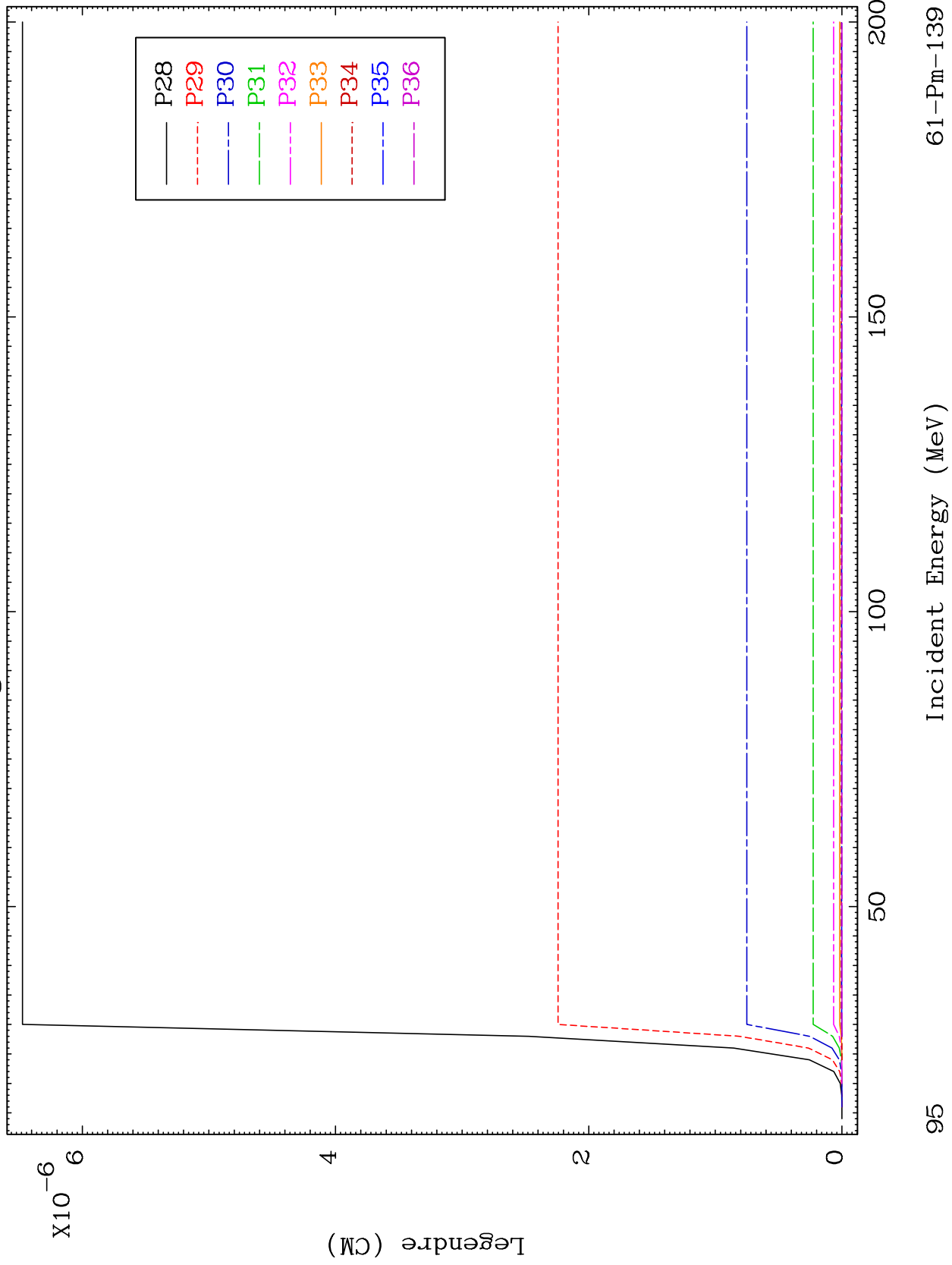
Incident Energy (MeV)

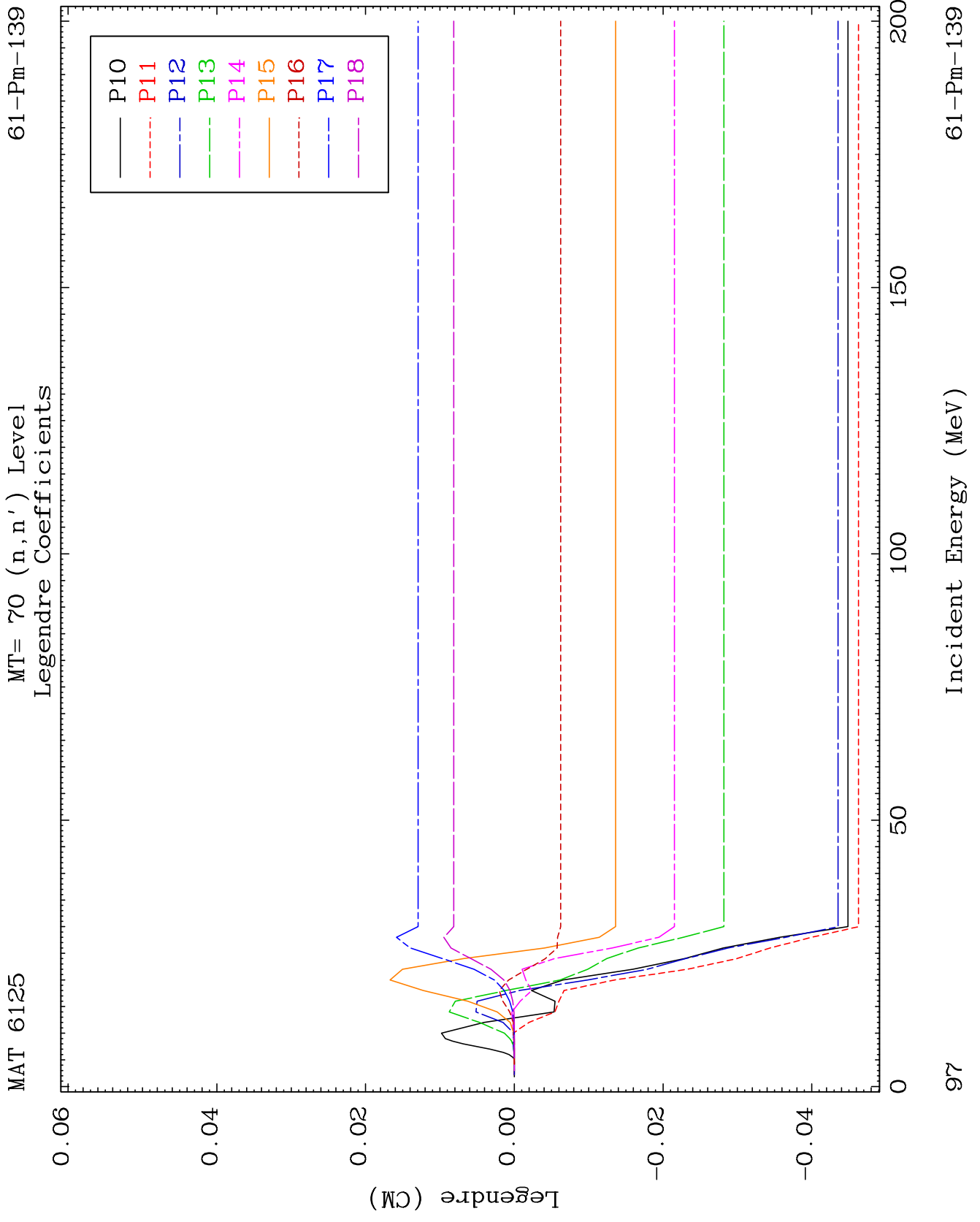
61-Pm-139

MAT 6125

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

61-Pm-139

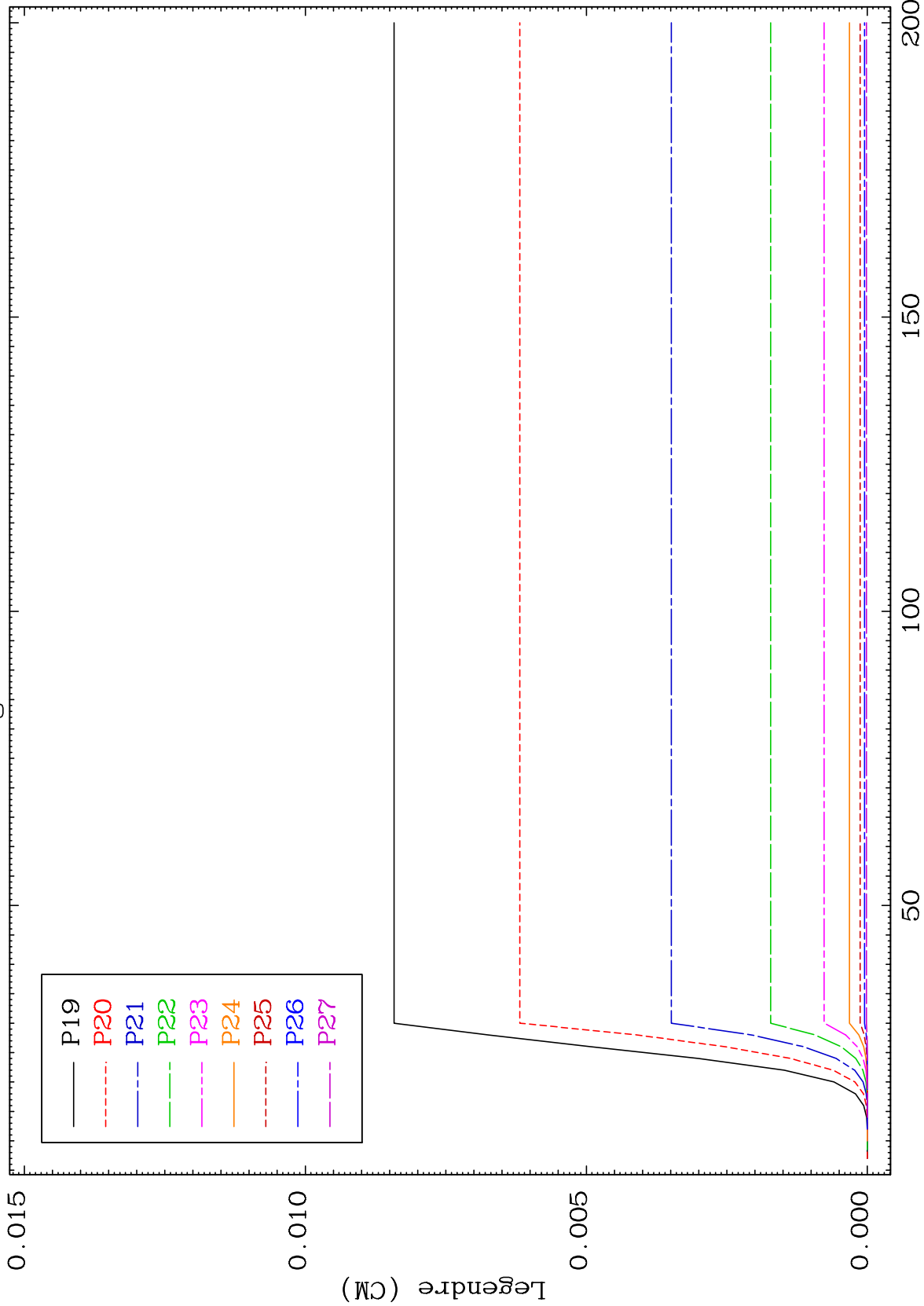




MAT 6125

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

61-Pm-139



61-Pm-139

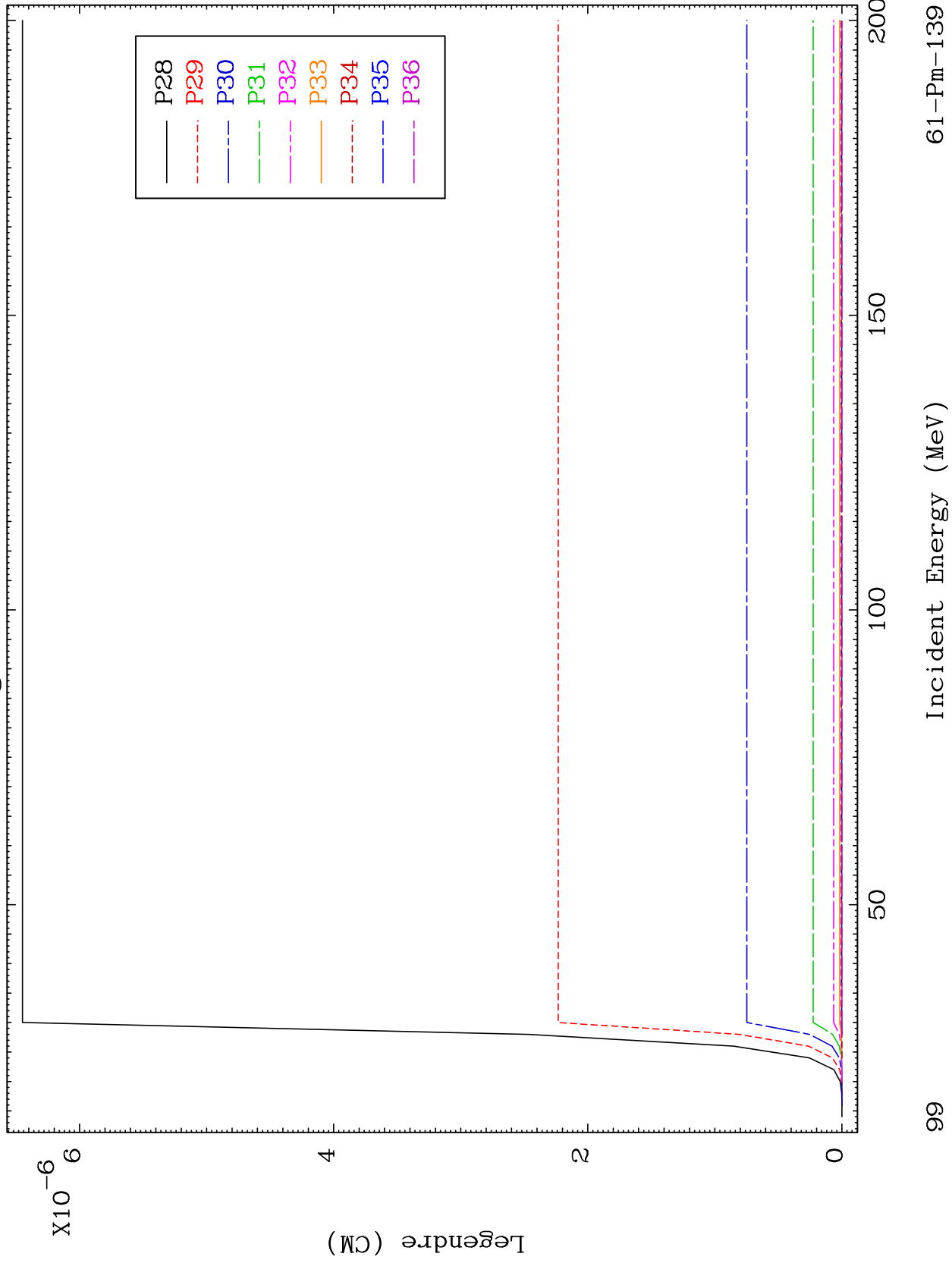
Incident Energy (MeV)

98

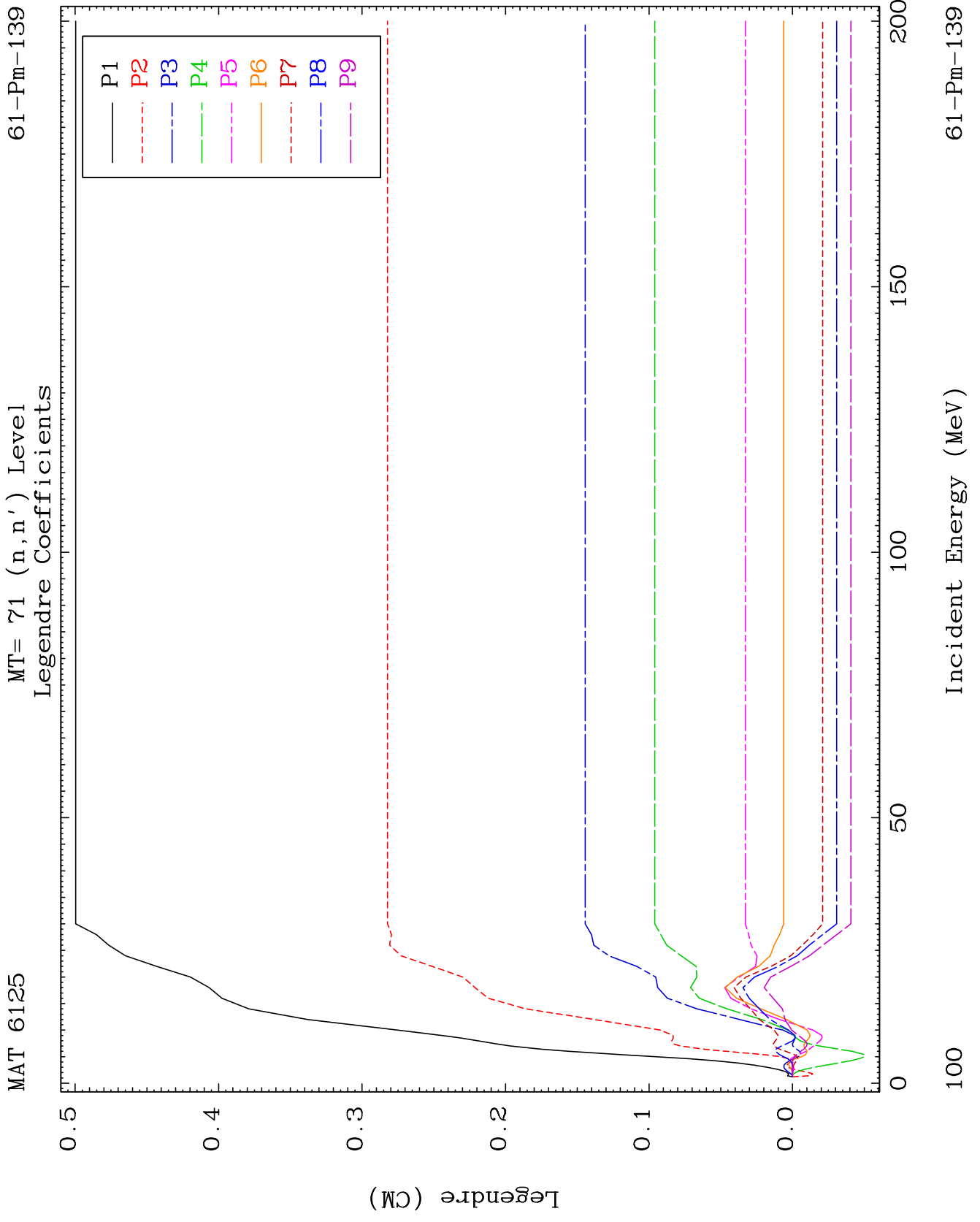
MAT 6125

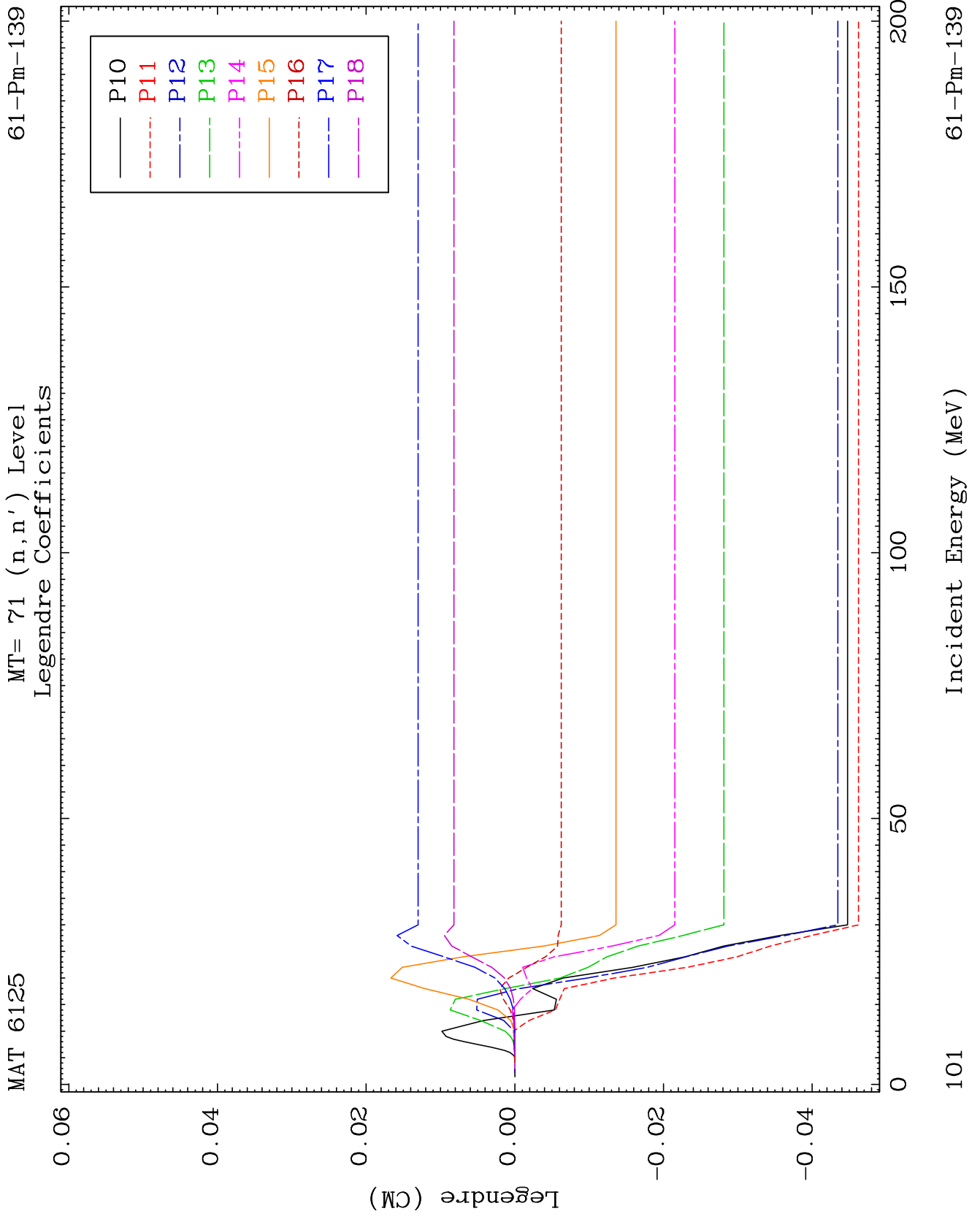
MT= 70 (n,n') Level
Legendre Coefficients

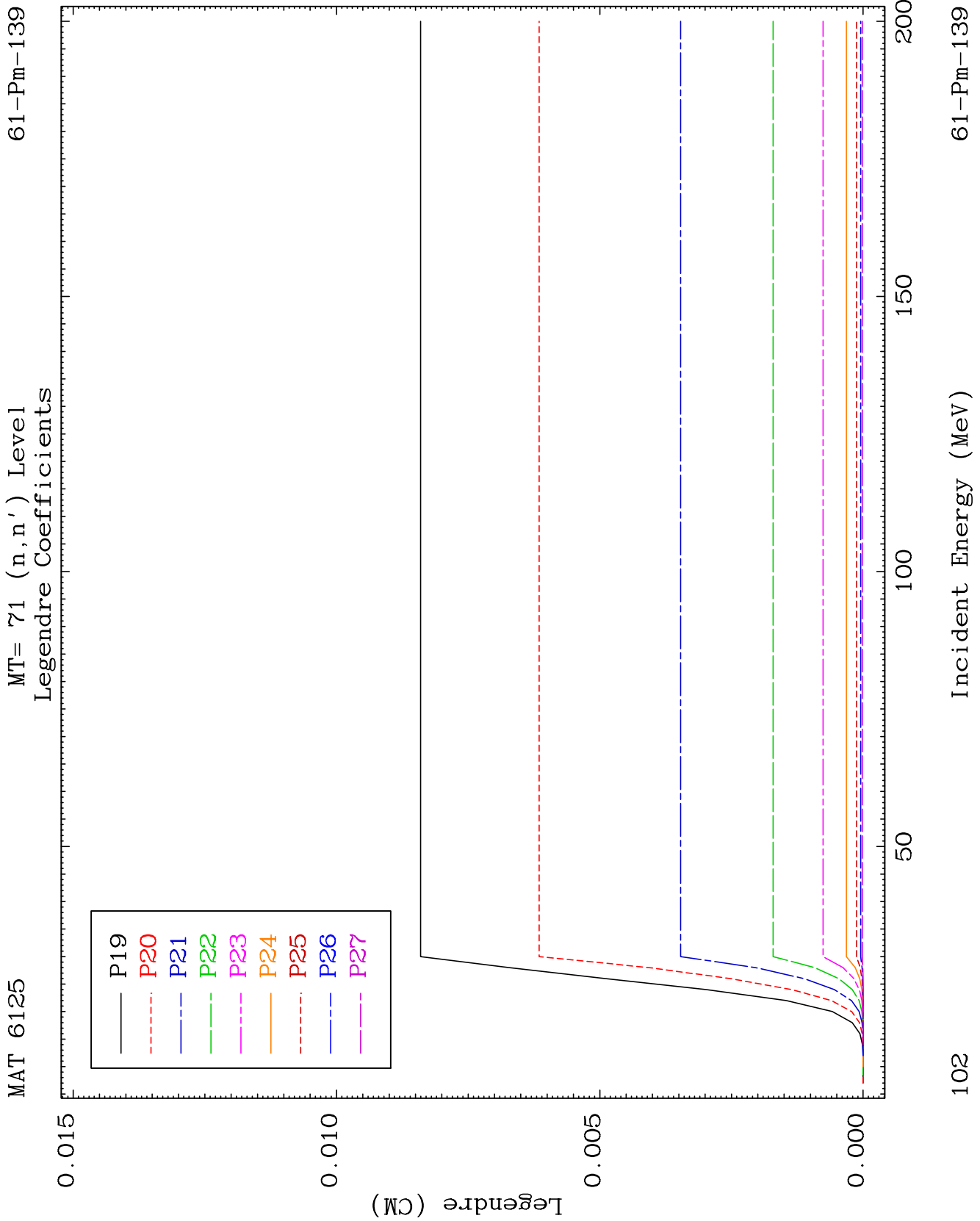
61-Pm-139



99



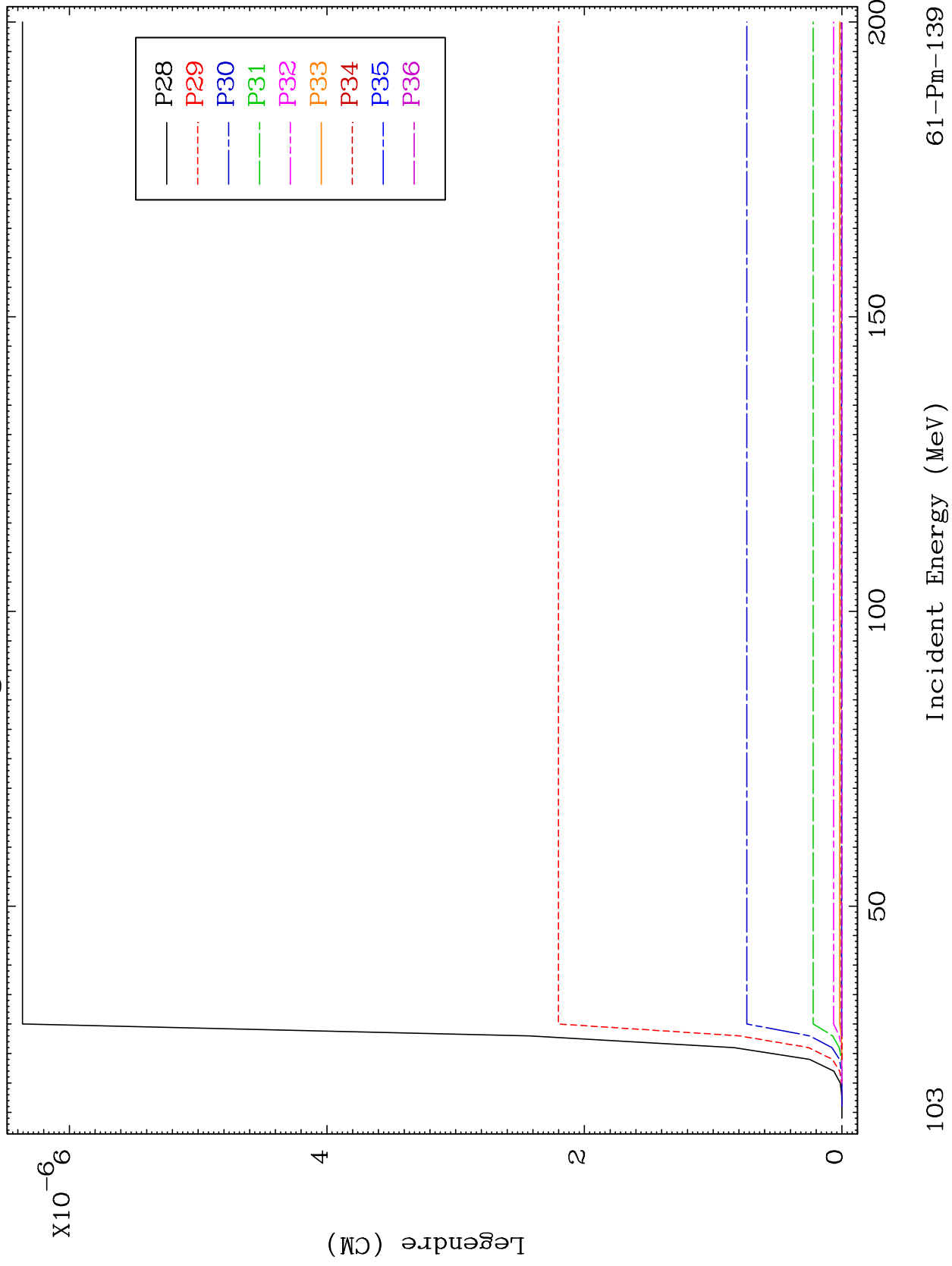


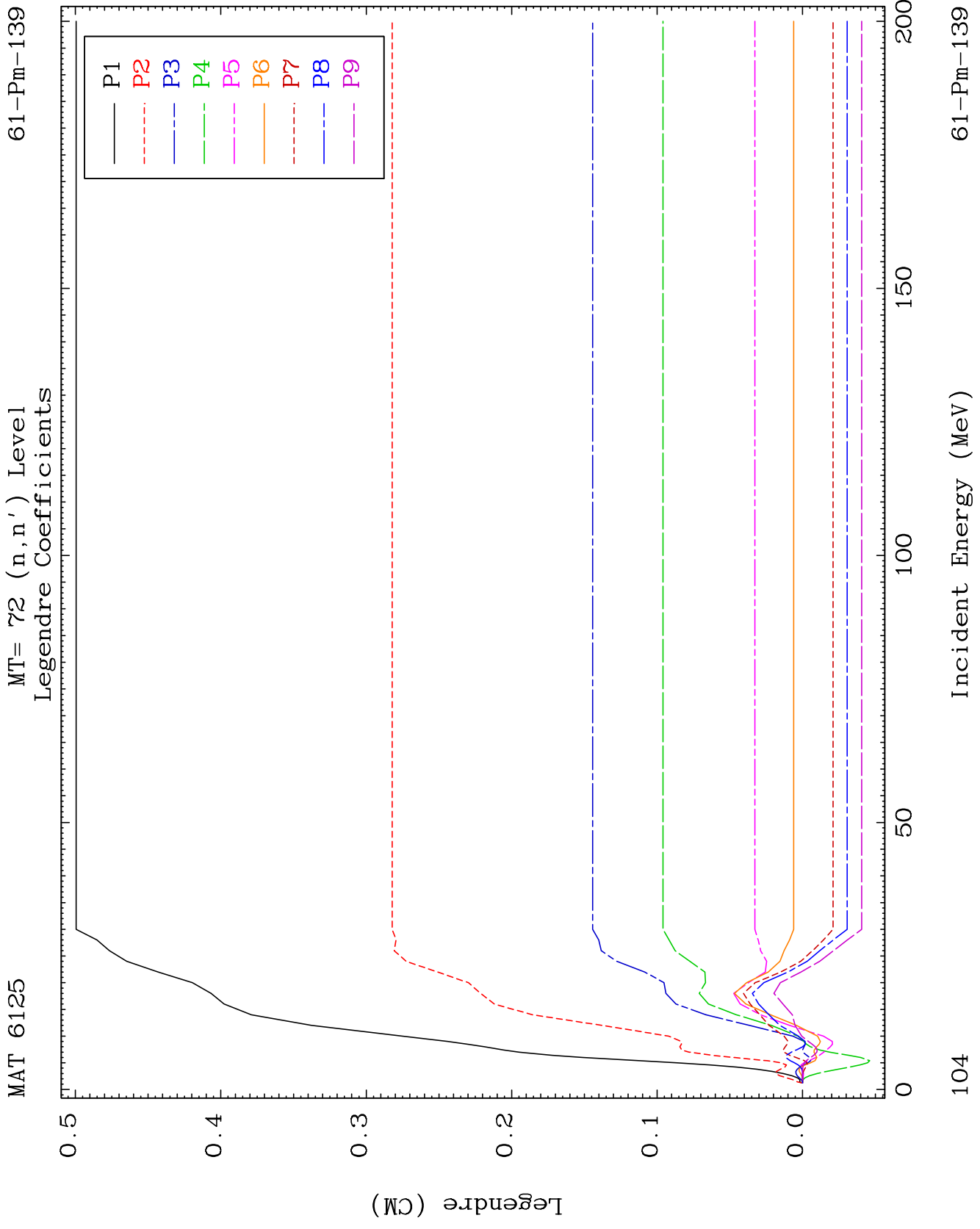


MAT 6125

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

61-Pm-139

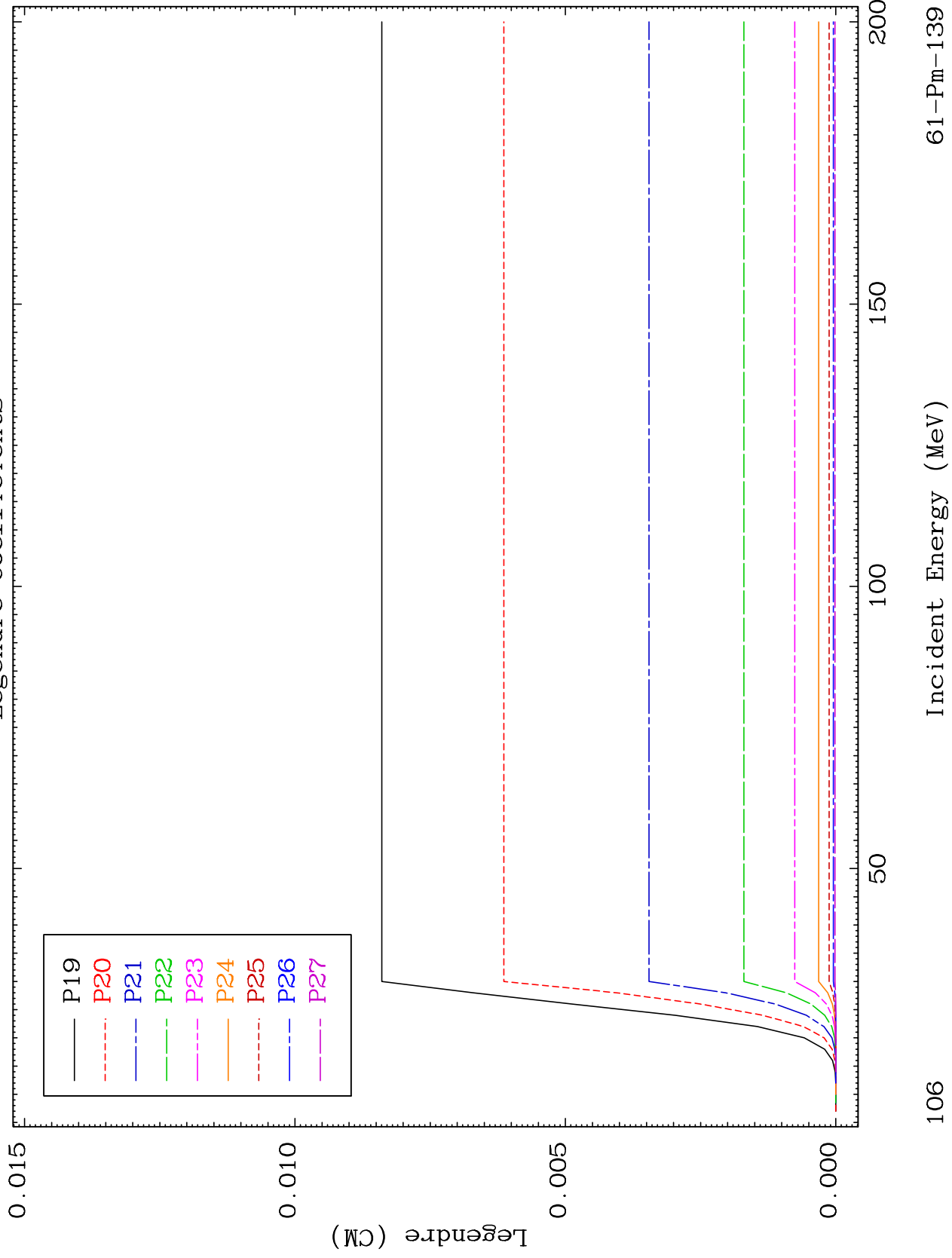




MAT 6125

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

61-Pm-139



106

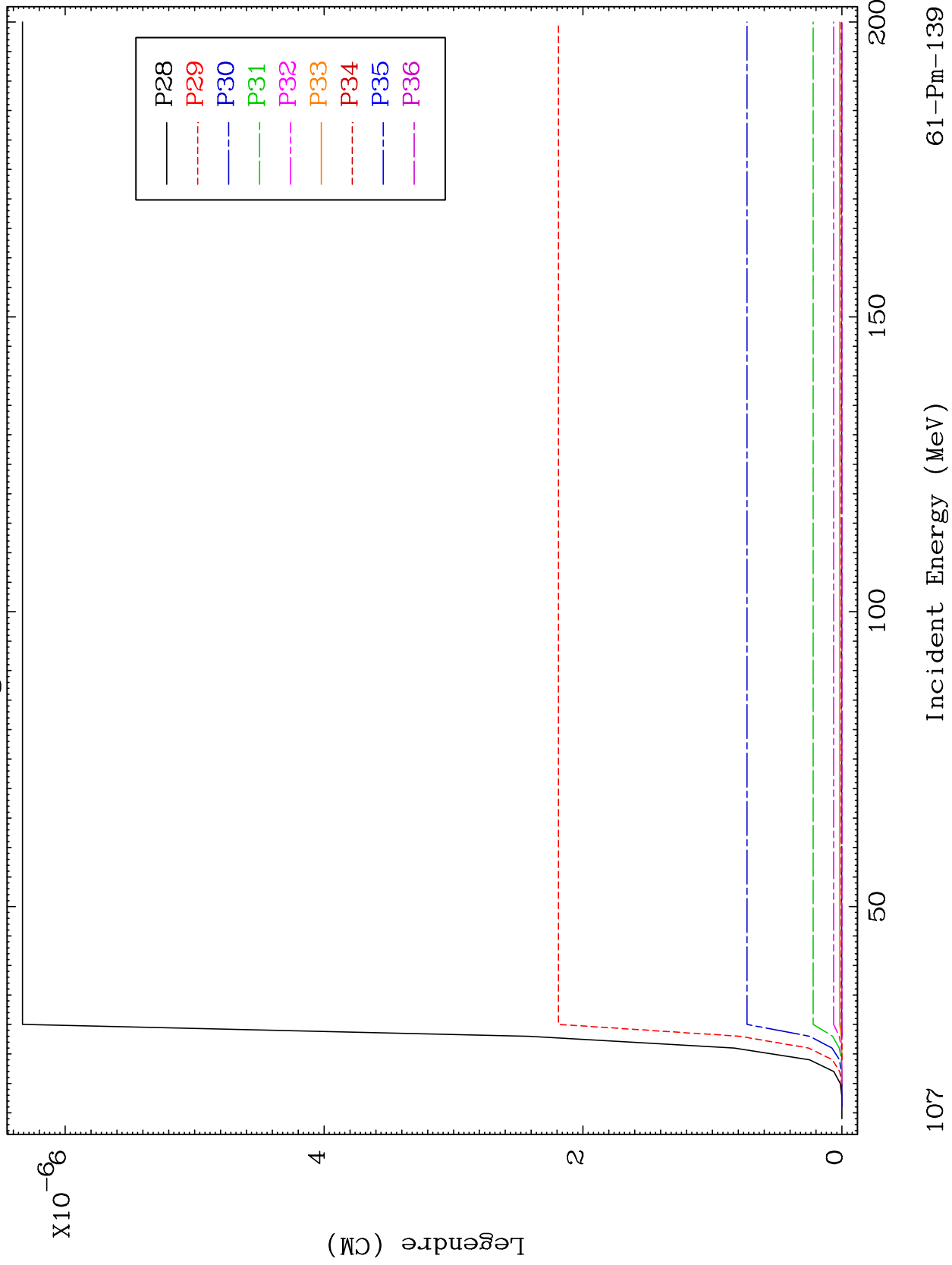
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



107

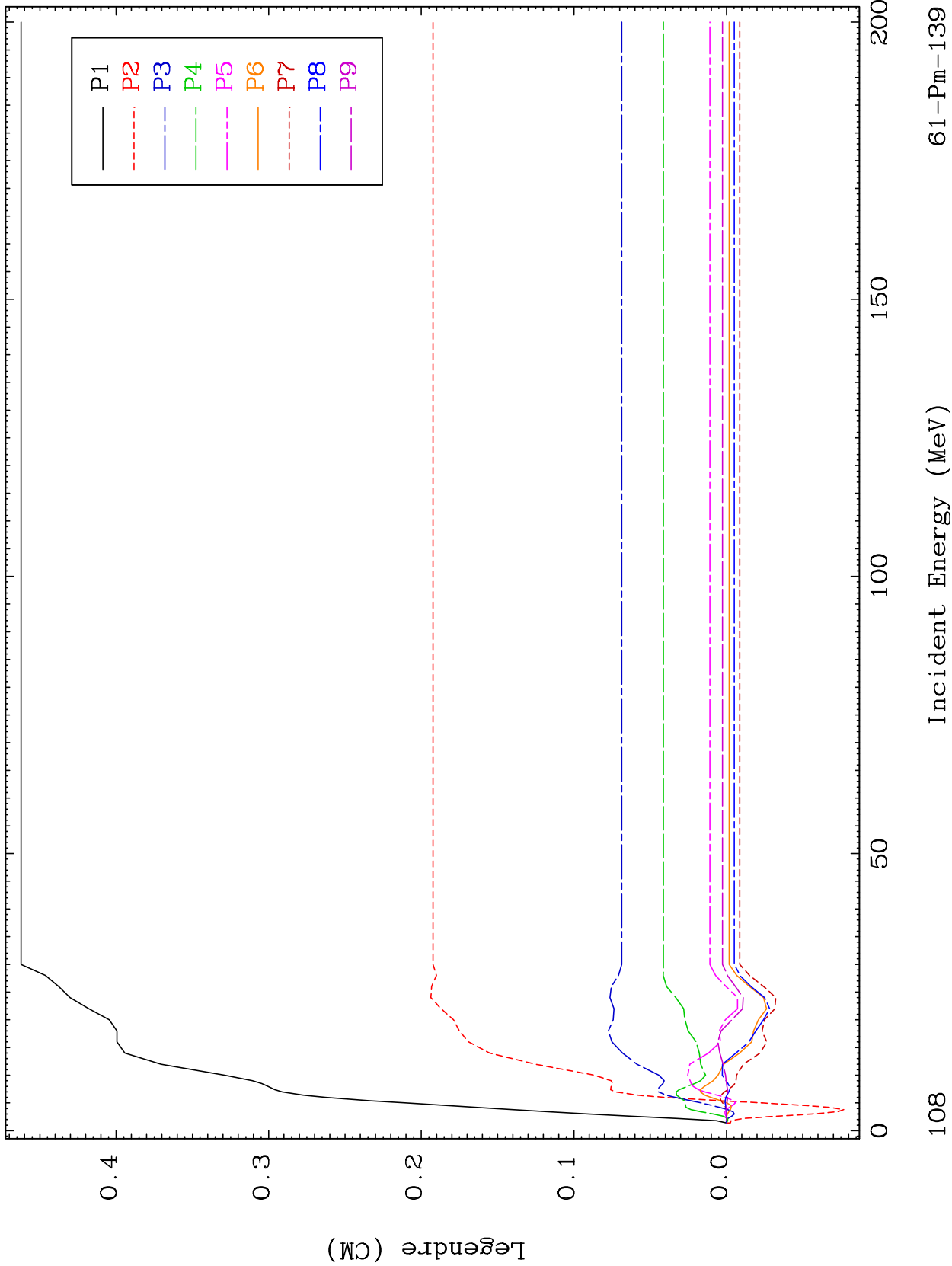
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



61-Pm-139

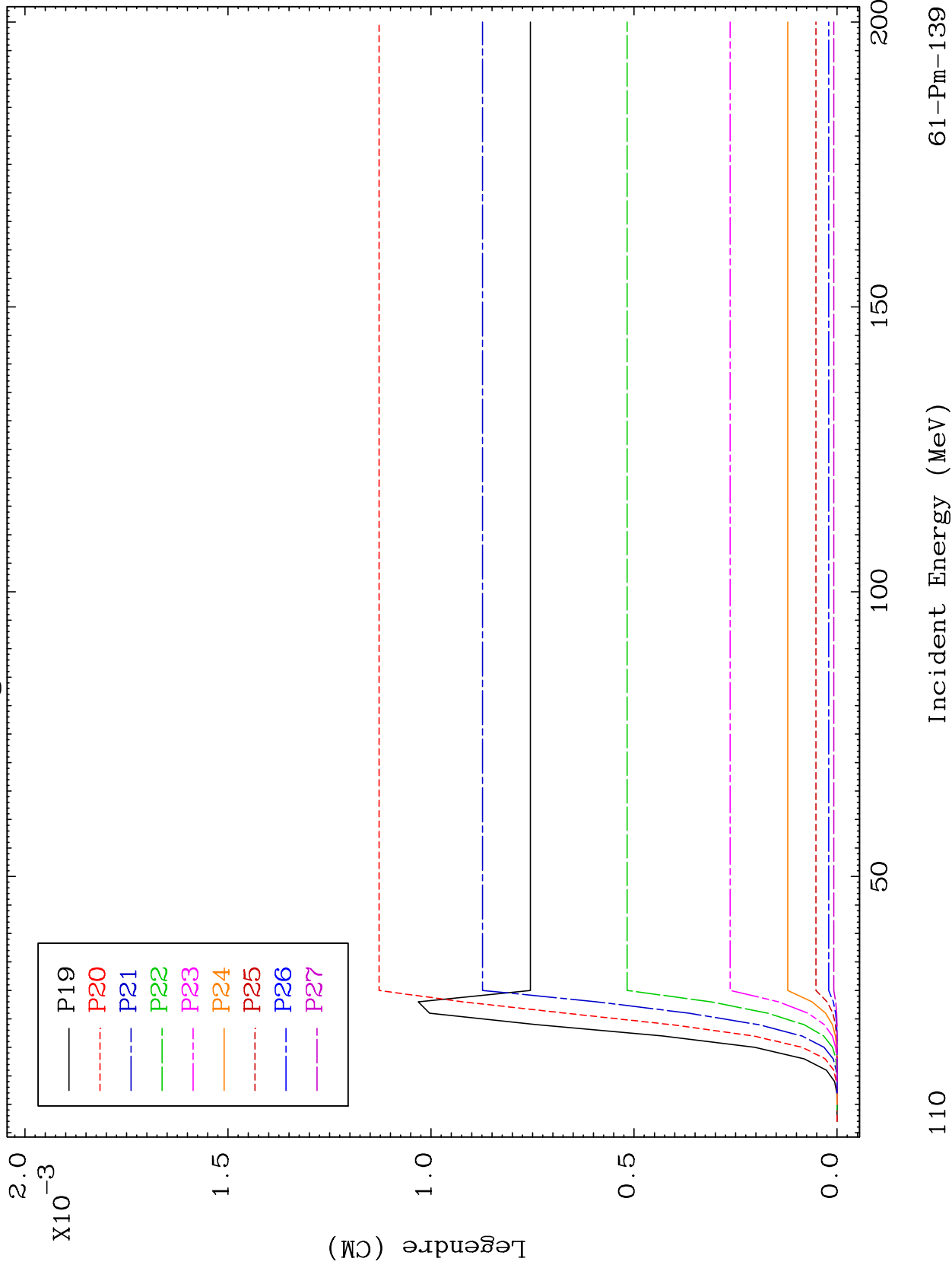
Incident Energy (MeV)

108

MAT 6125

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

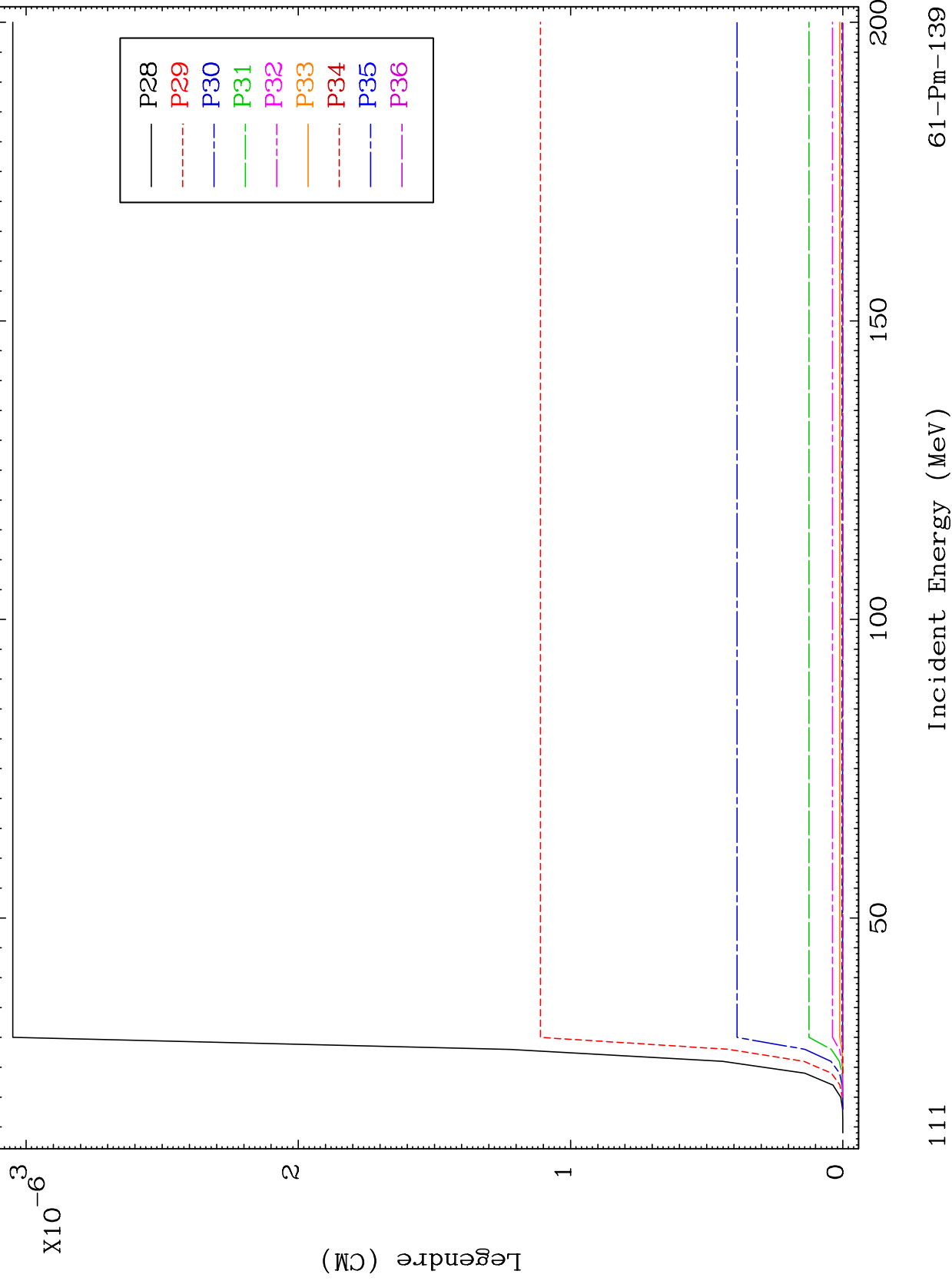
61-Pm-139



MAT 6125

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

61-Pm-139

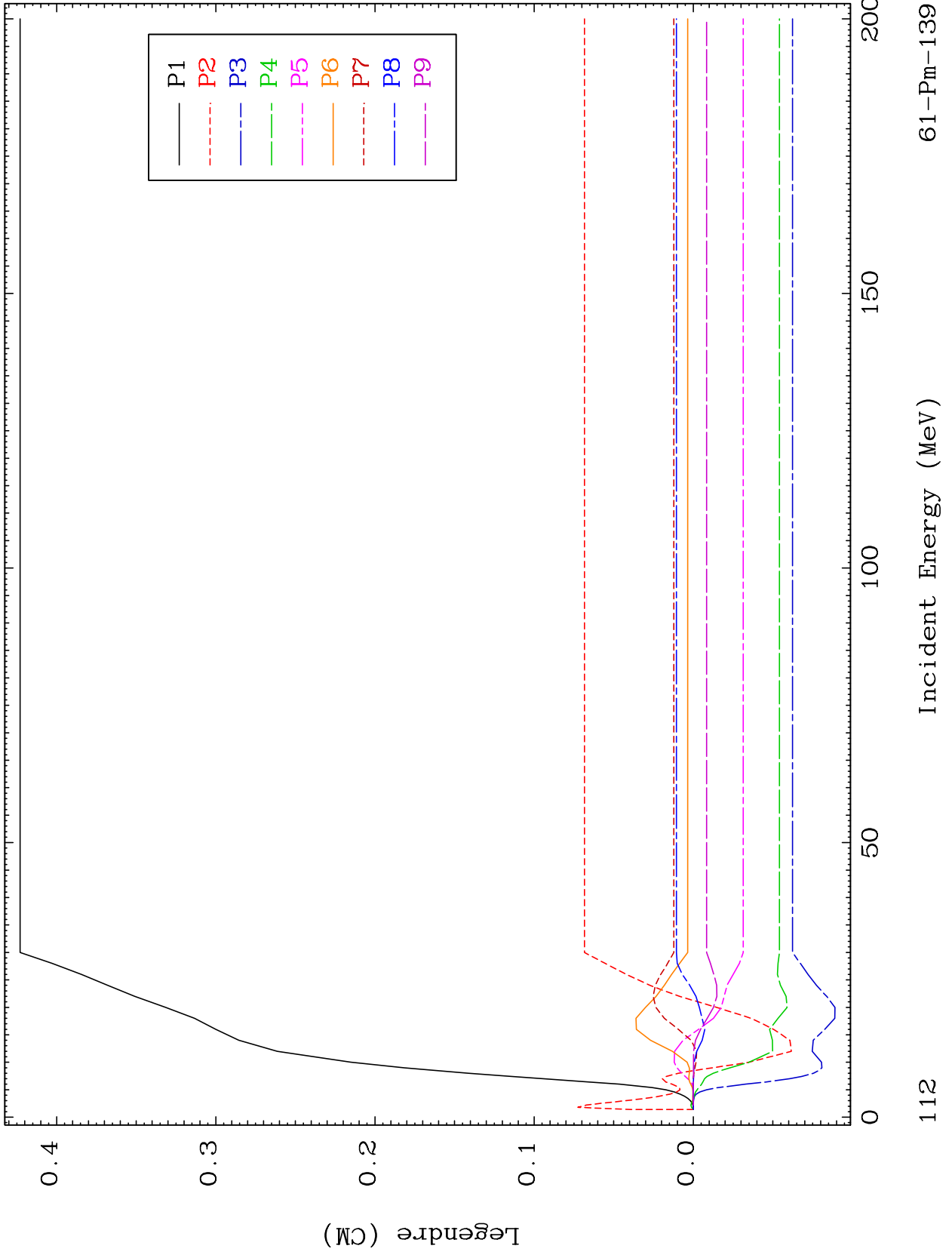


111

MAT 6125

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

61-Pm-139

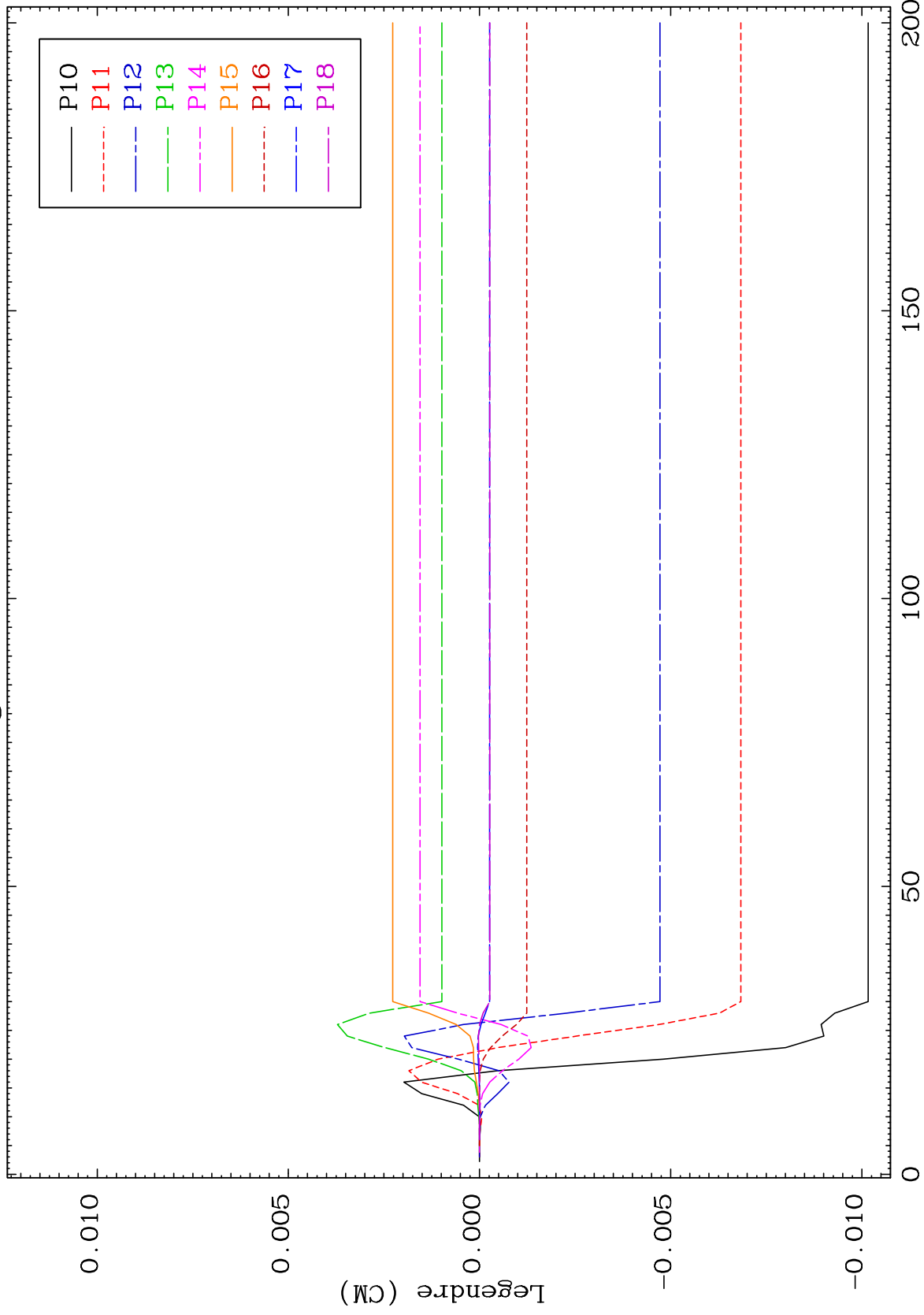


112

MAT 6125

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

61-Pm-139



113

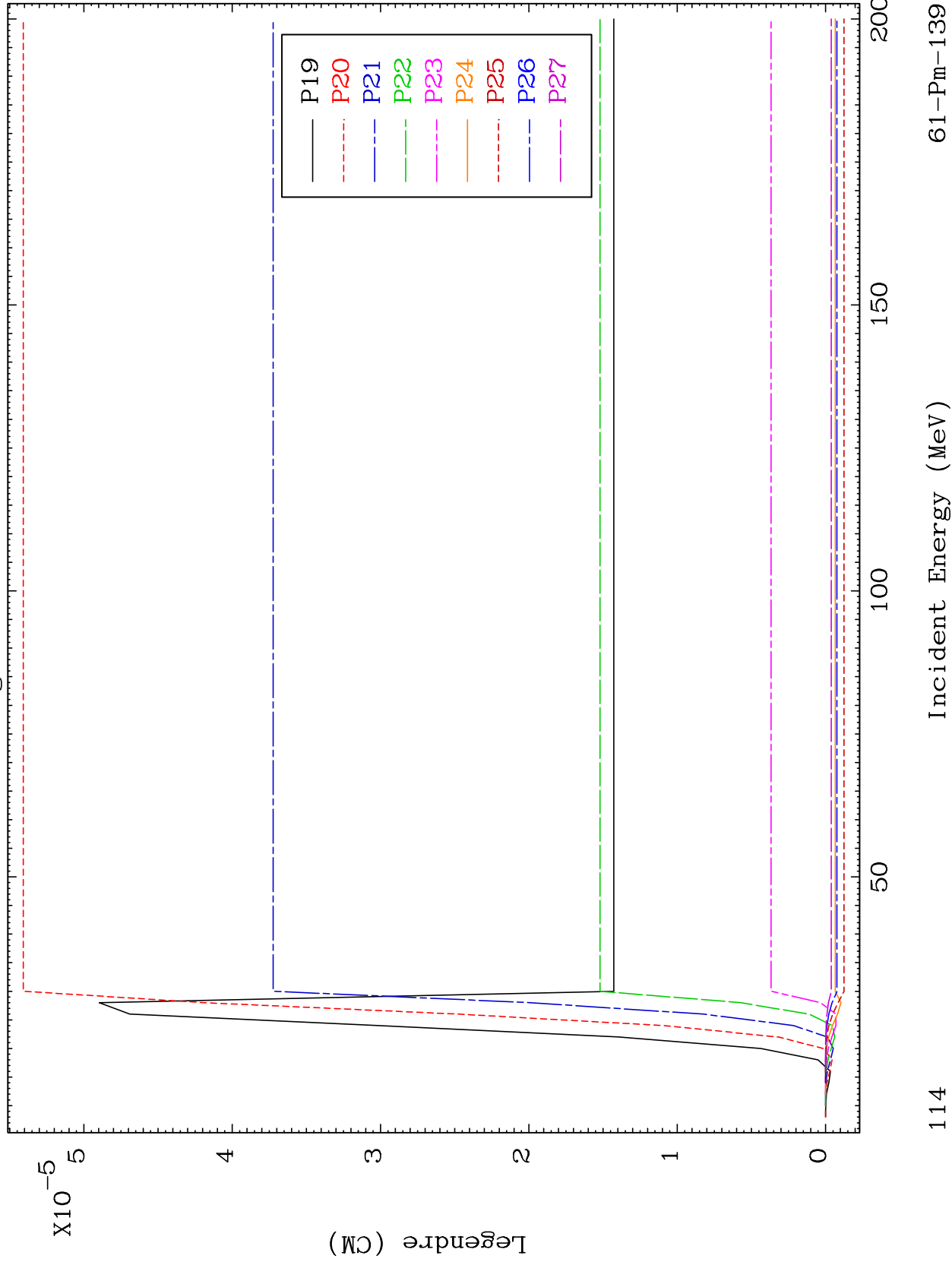
Incident Energy (MeV)

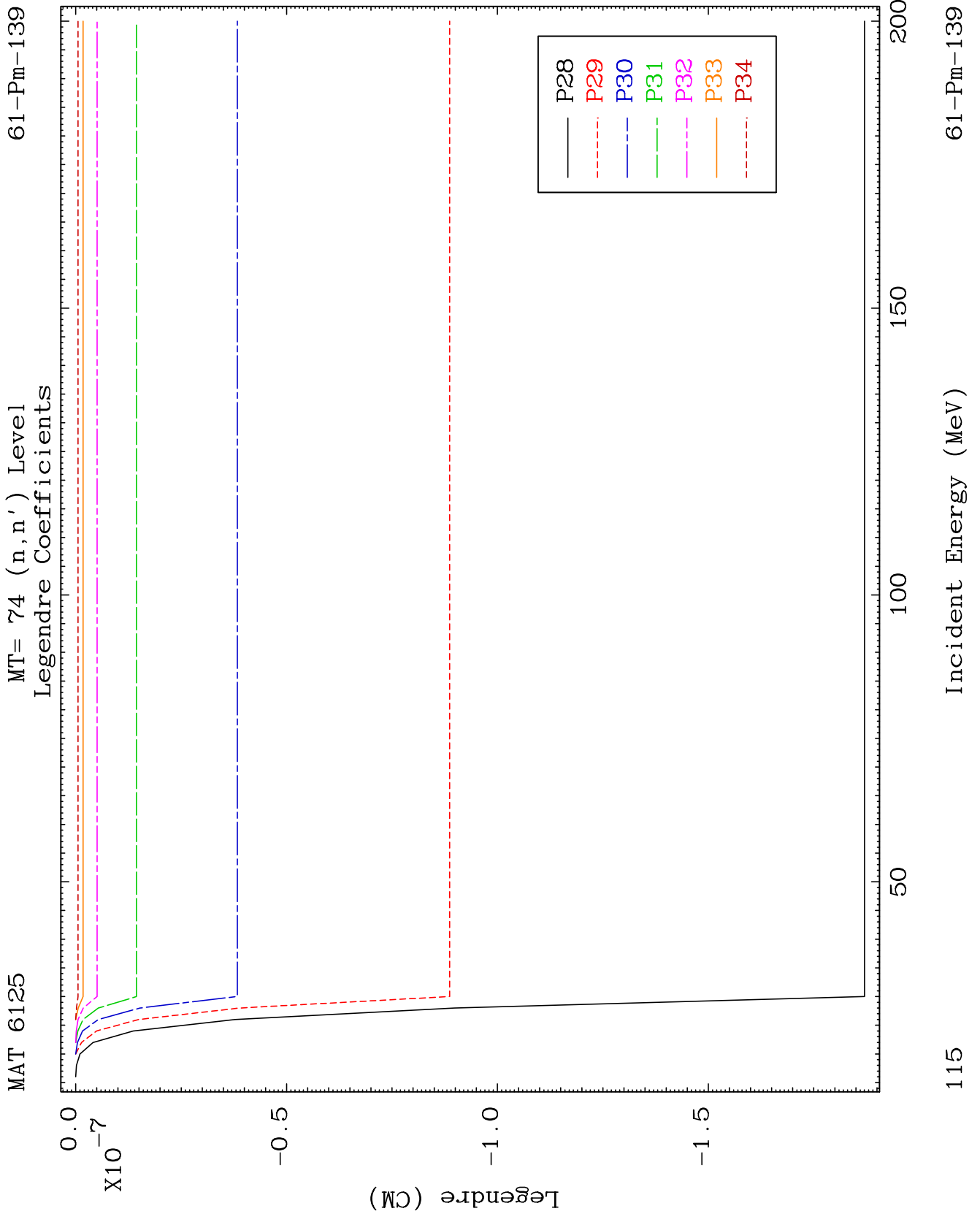
61-Pm-139

MAT 6125

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

61-Pm-139

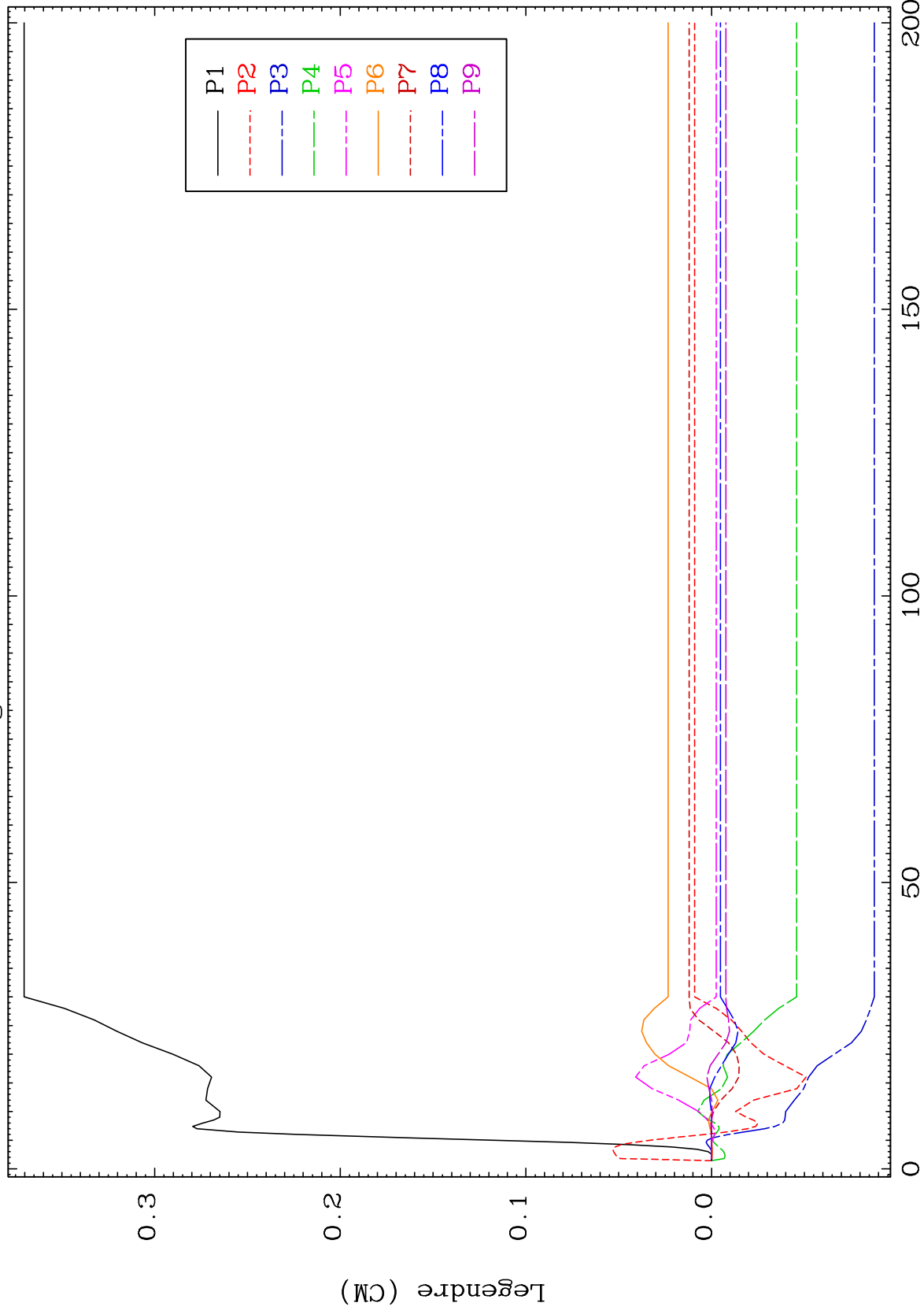




MAT 6125

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

61-Pm-139



116

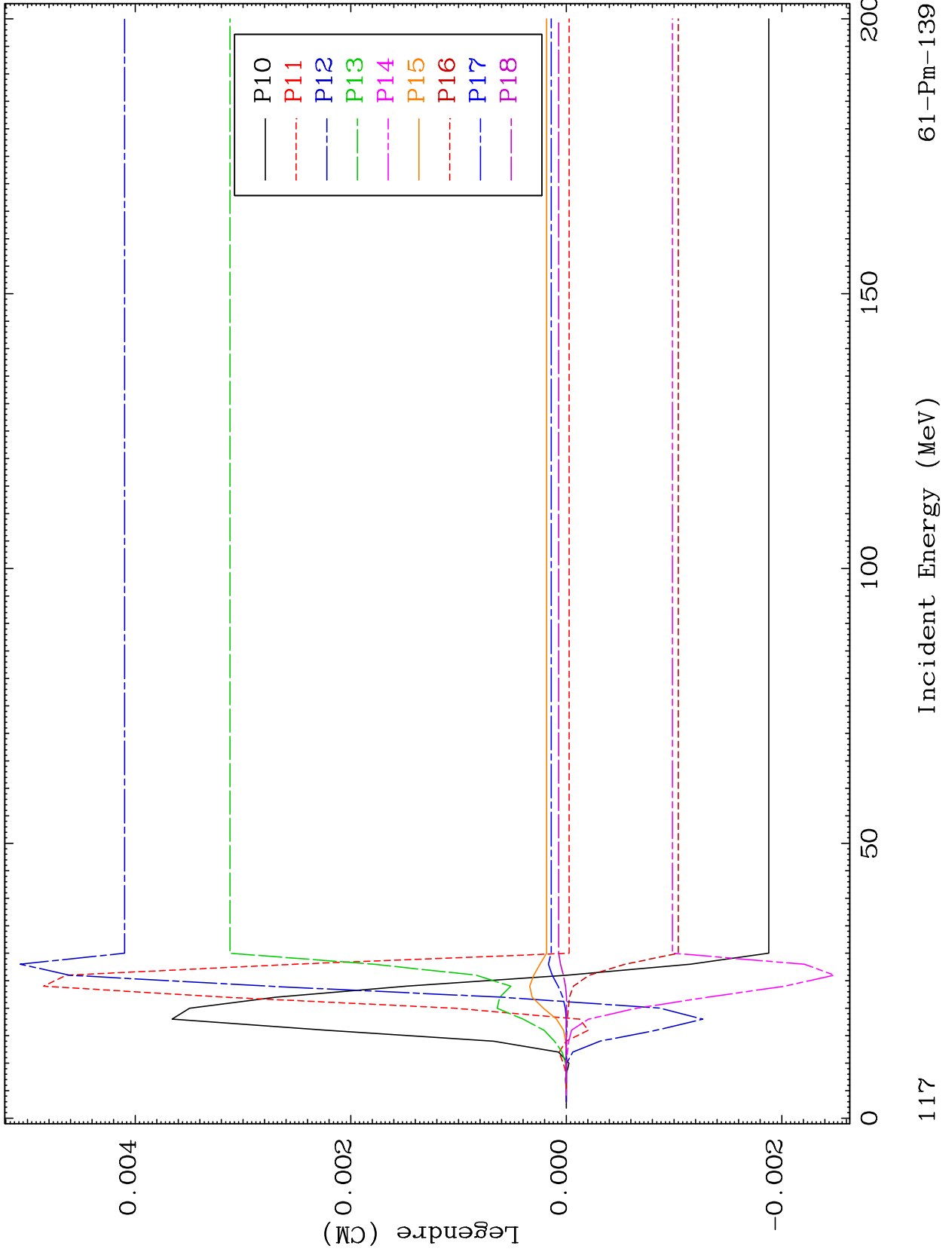
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



117

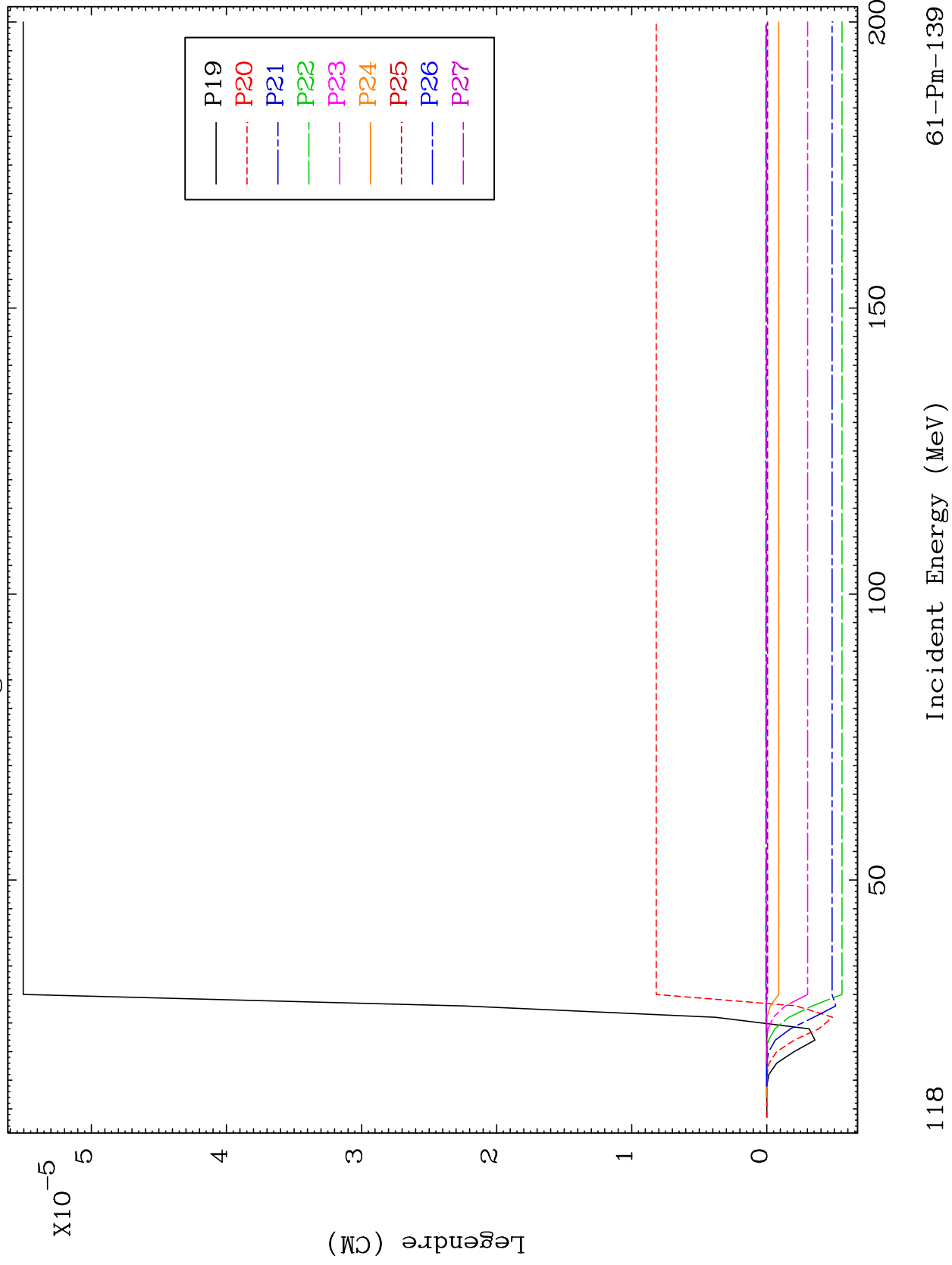
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



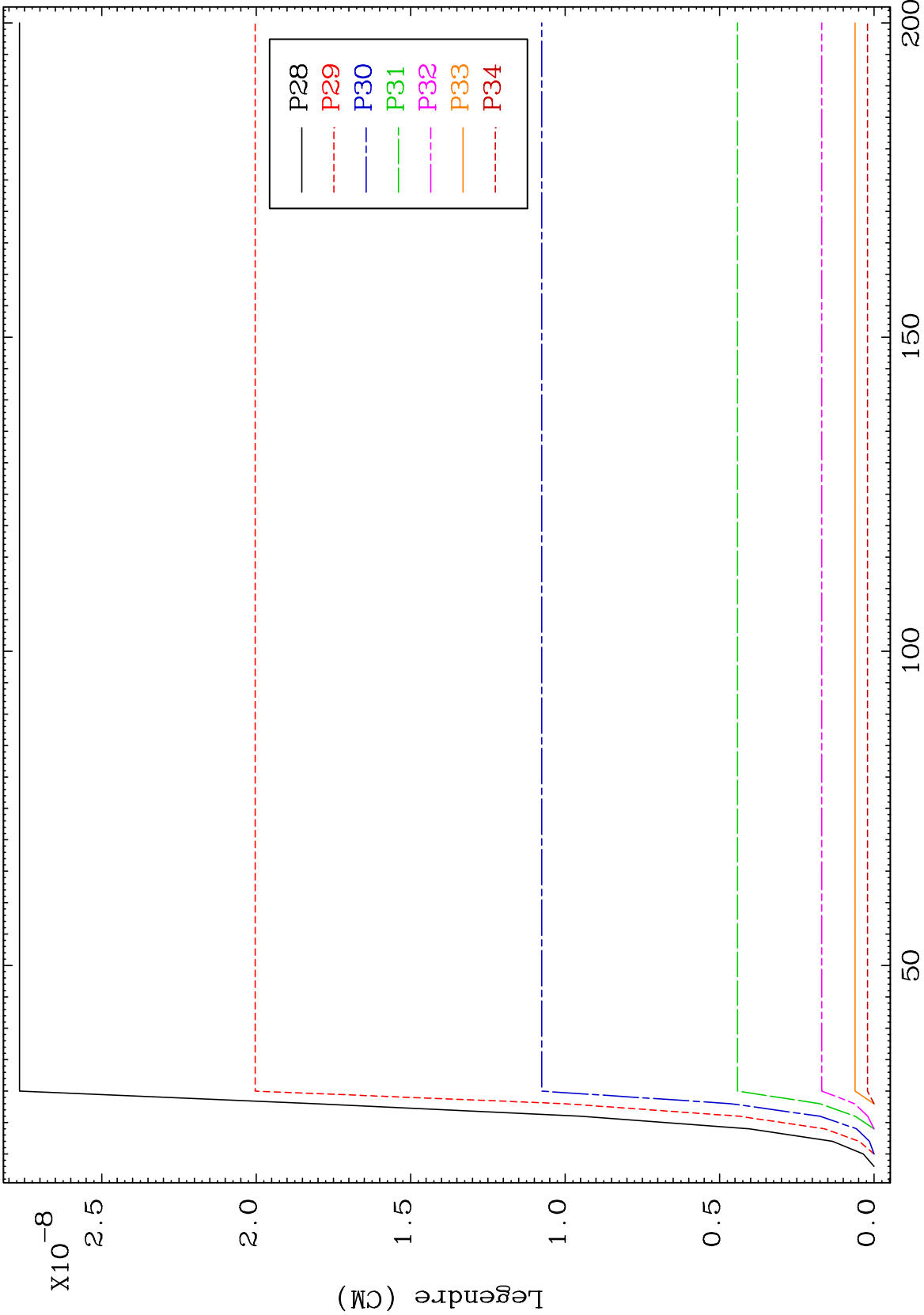
118

61-Pm-139

MAT 6125

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

61-Pm-139



119

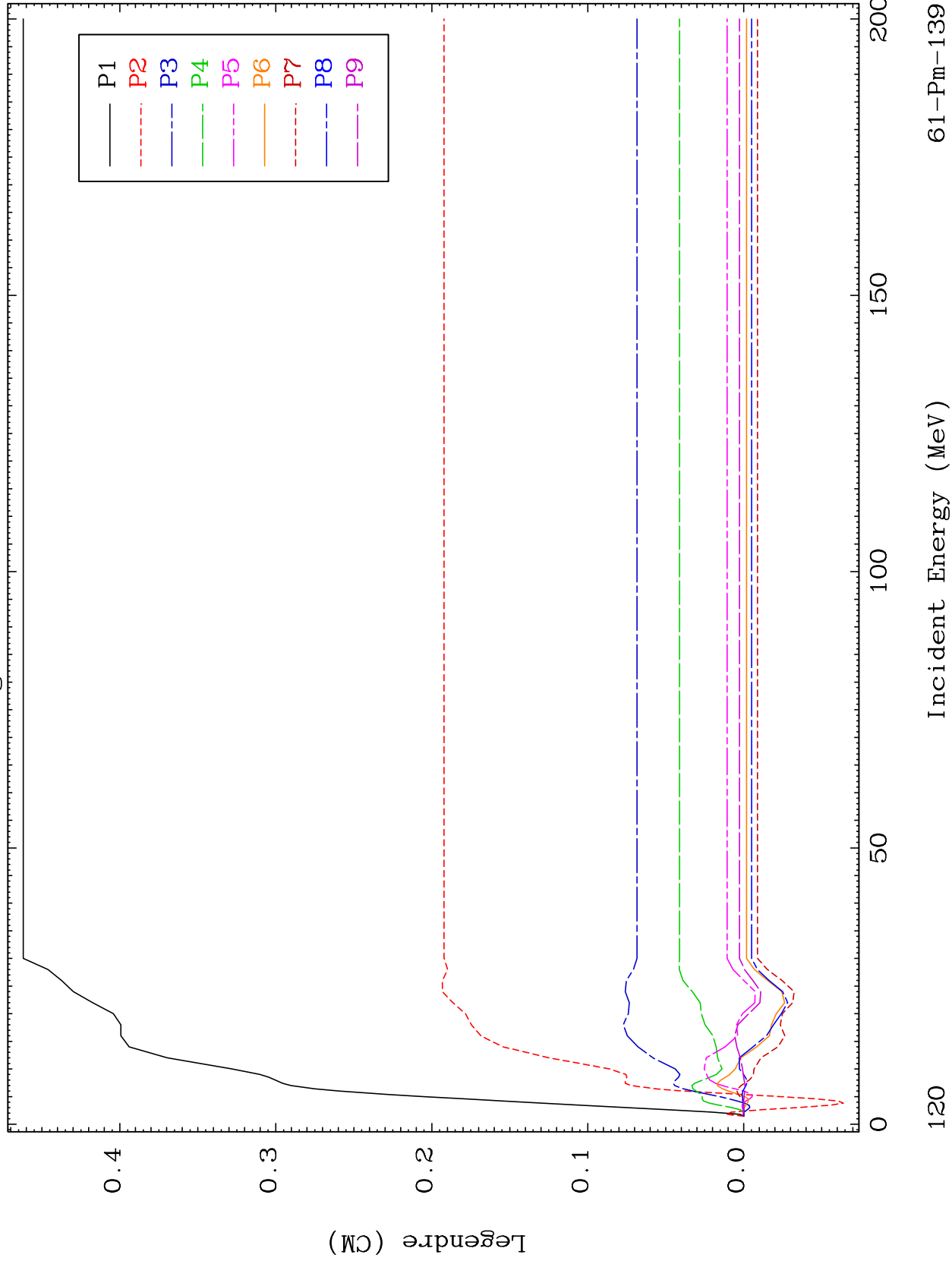
Incident Energy (MeV)

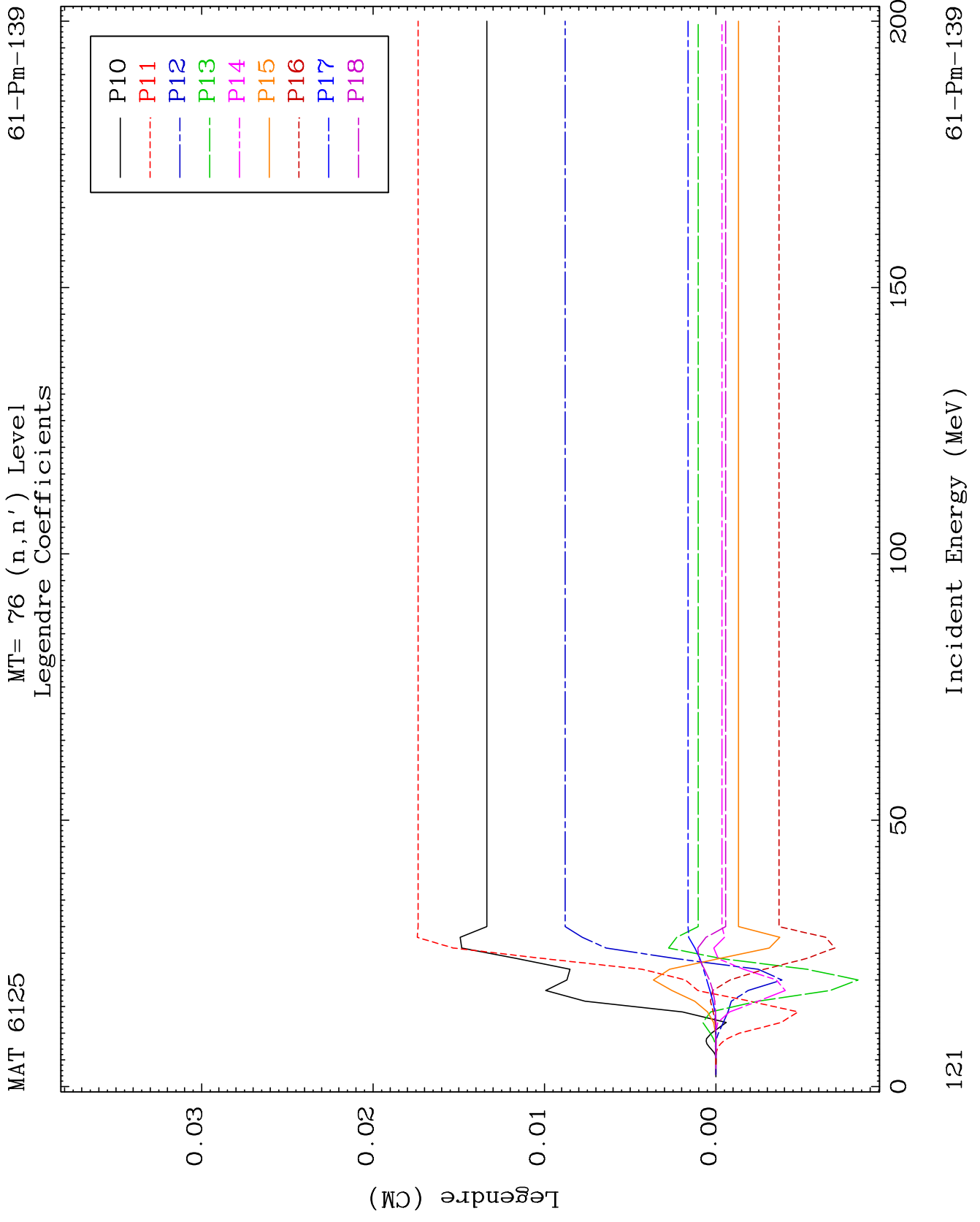
61-Pm-139

MAT 6125

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

61-Pm-139





61-Pm-139

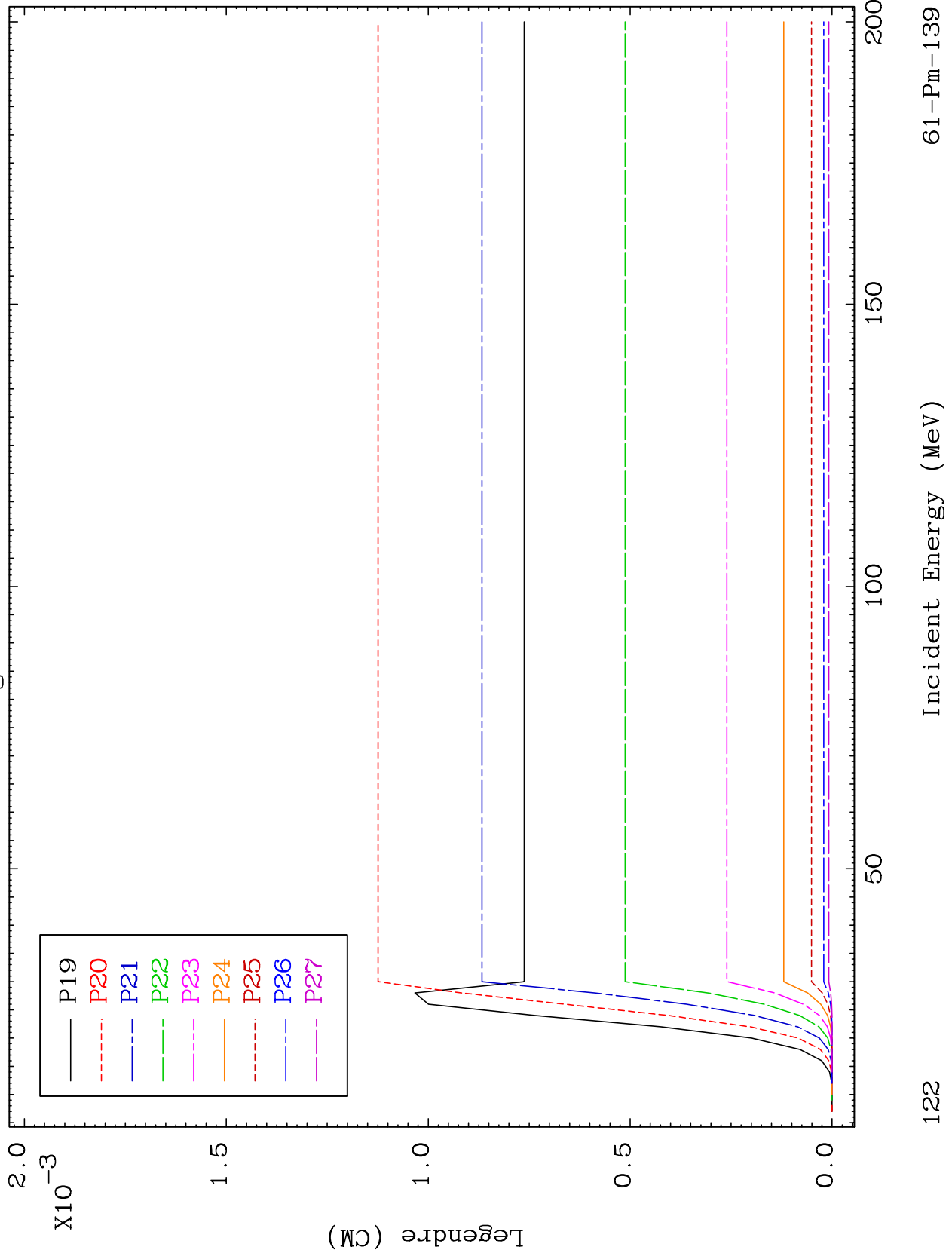
Incident Energy (MeV)

121

MAT 6125

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

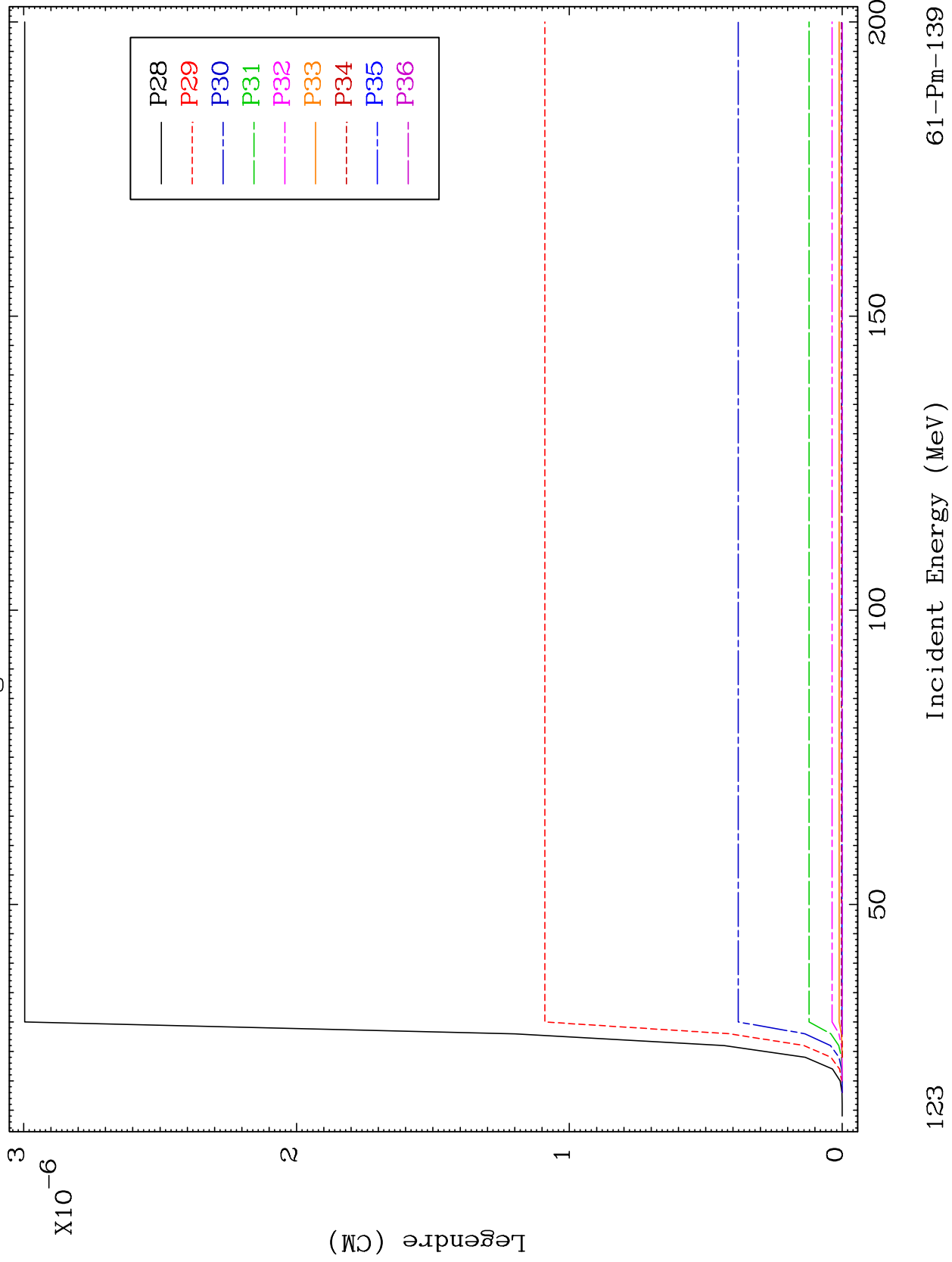
61-Pm-139



MAT 6125

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

61-Pm-139

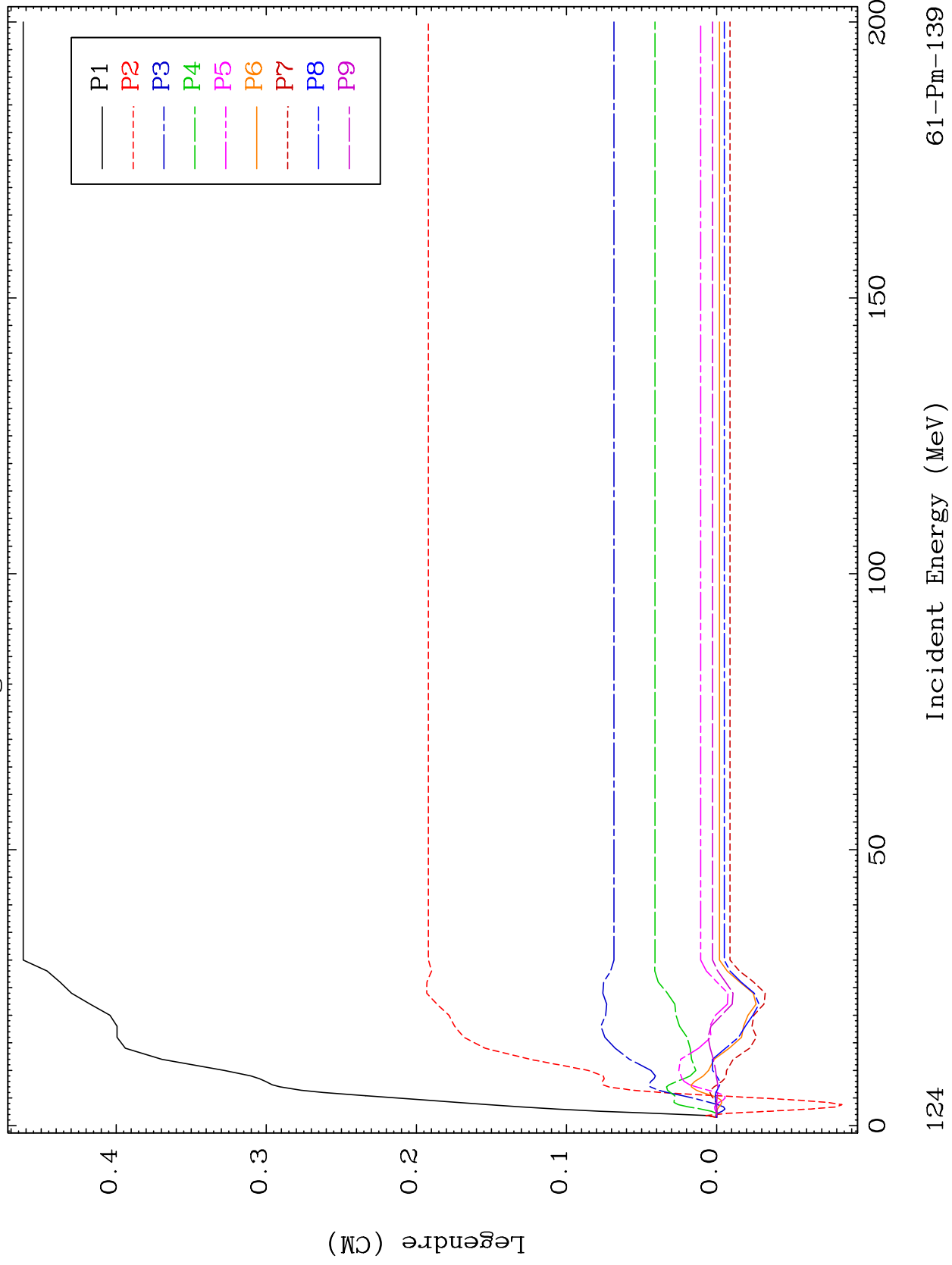


123

MAT 6125

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

61-Pm-139



61-Pm-139

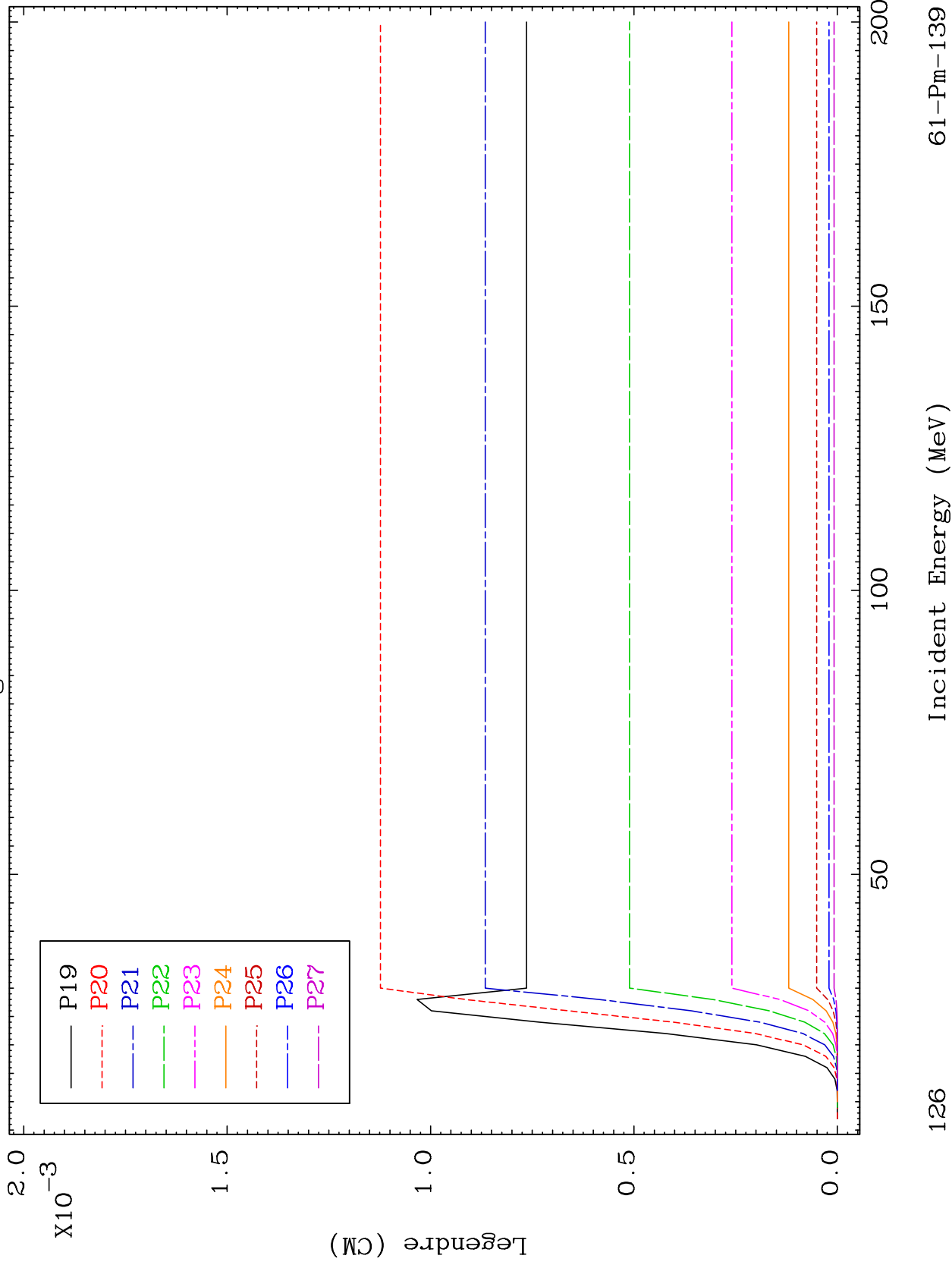
Incident Energy (MeV)

124

MAT 6125

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

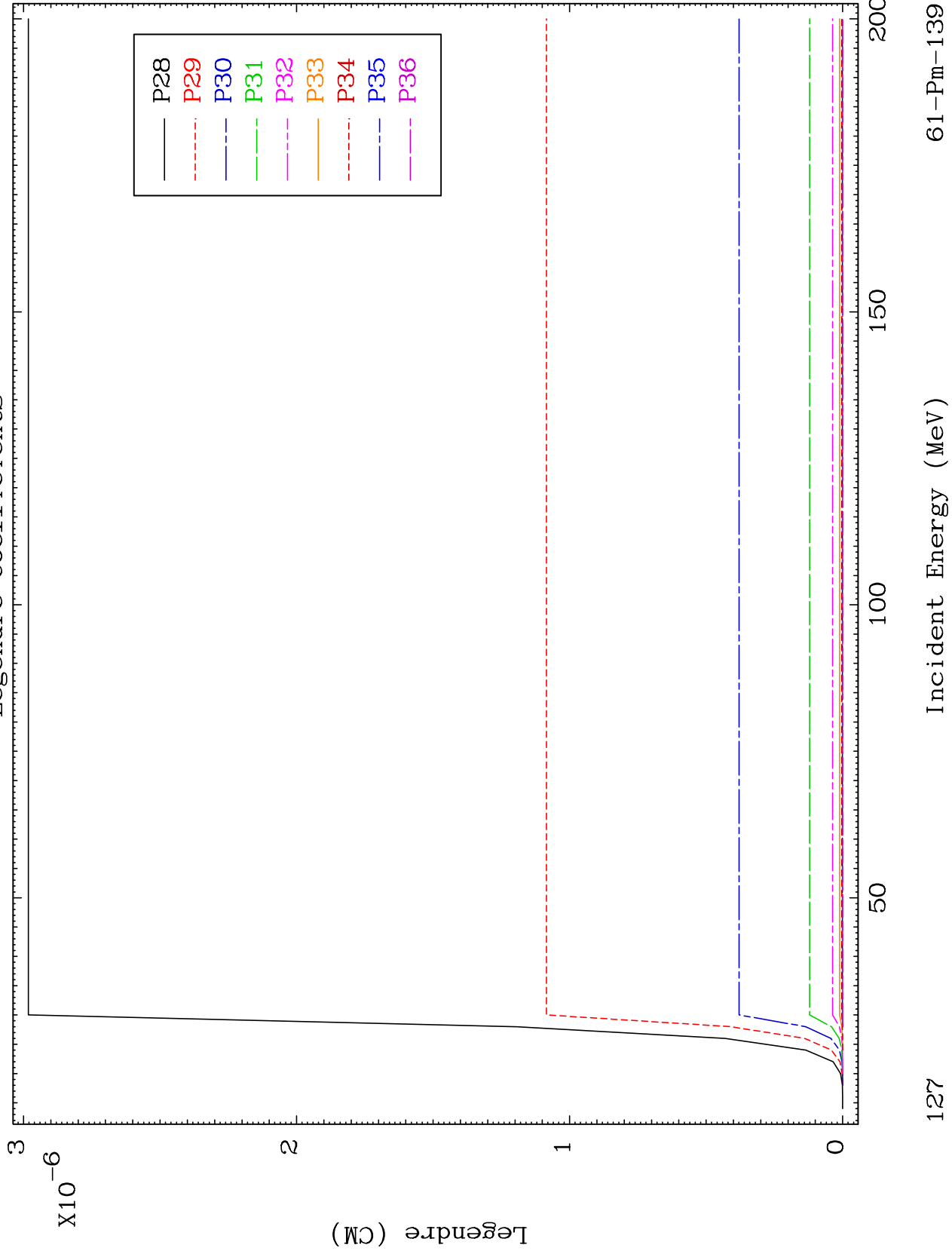
61-Pm-139



MAT 6125

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

61-Pm-139



127

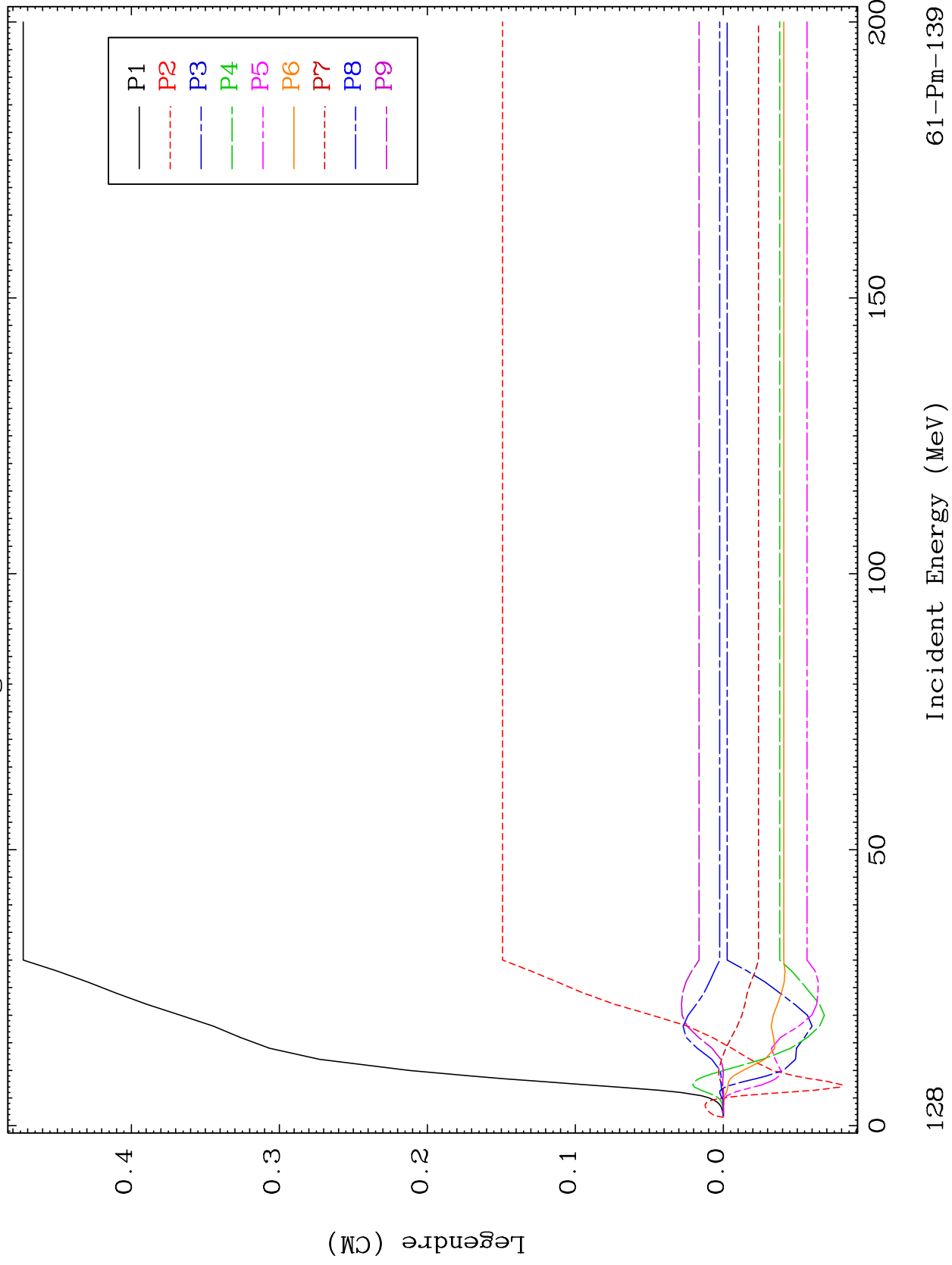
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

61-Pm-139



61-Pm-139

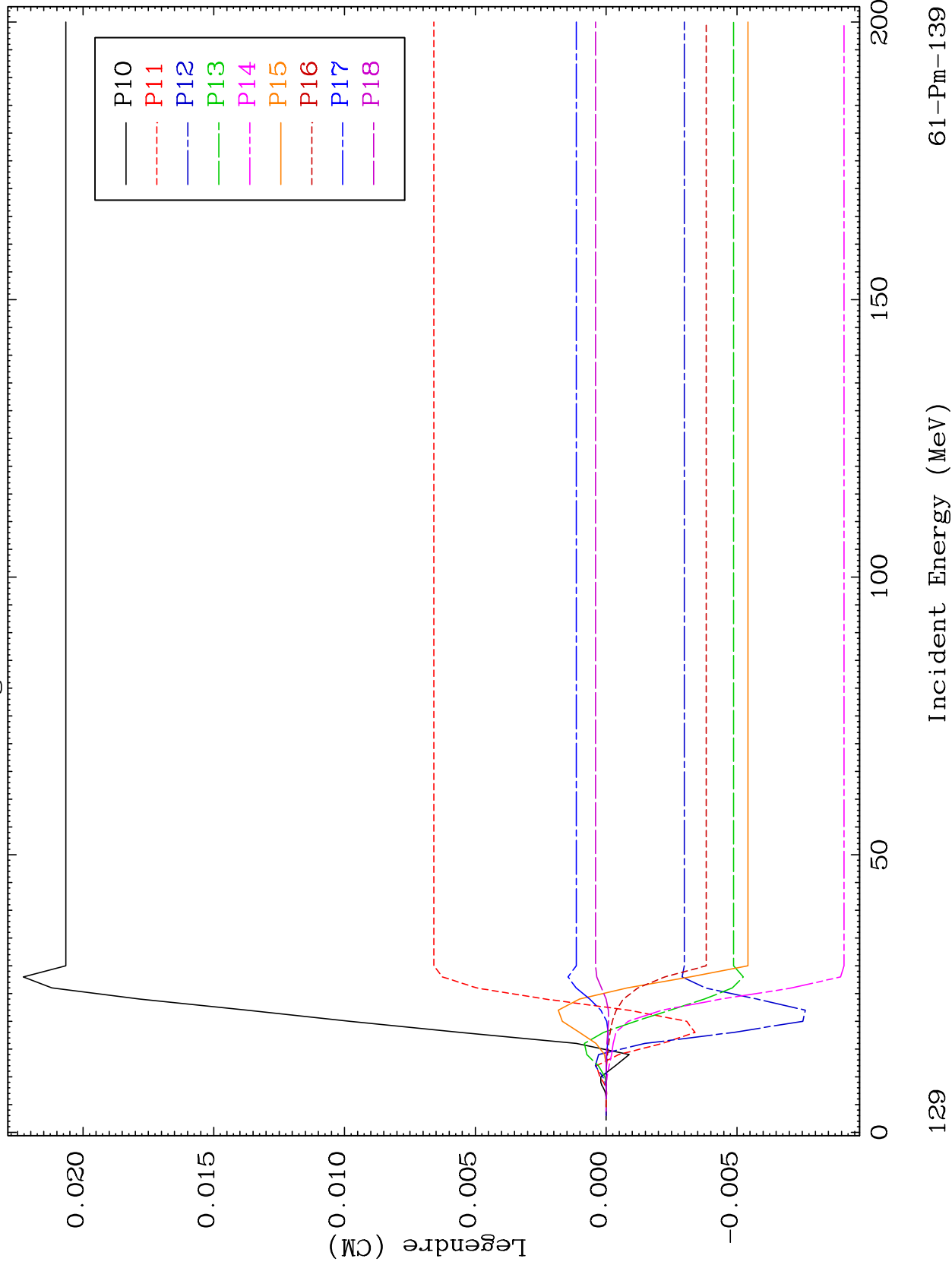
Incident Energy (MeV)

128

MAT 6125

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

61-Pm-139



129

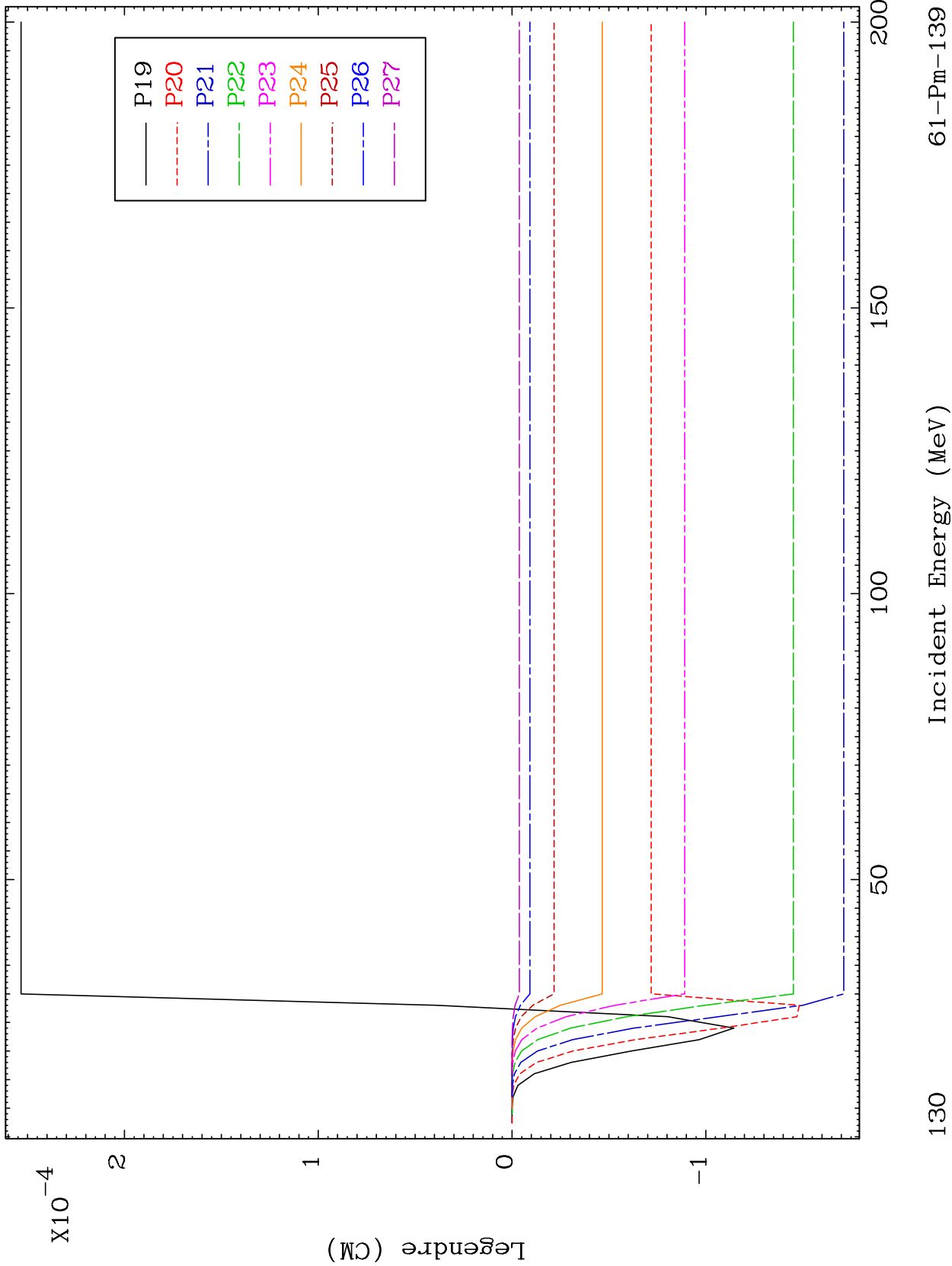
Incident Energy (MeV)

61-Pm-139

MAT 6125

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

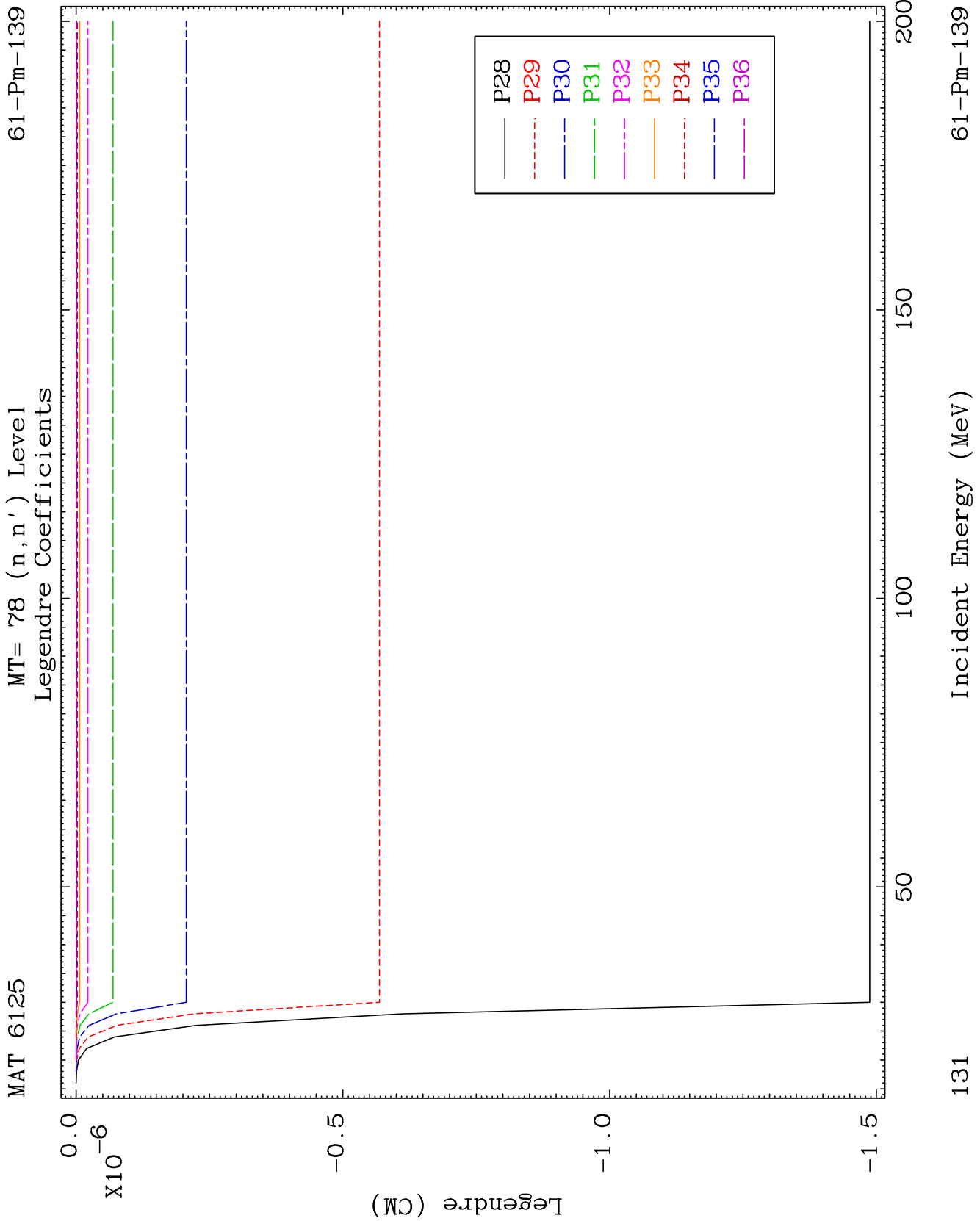
61-Pm-139



130

Incident Energy (MeV)

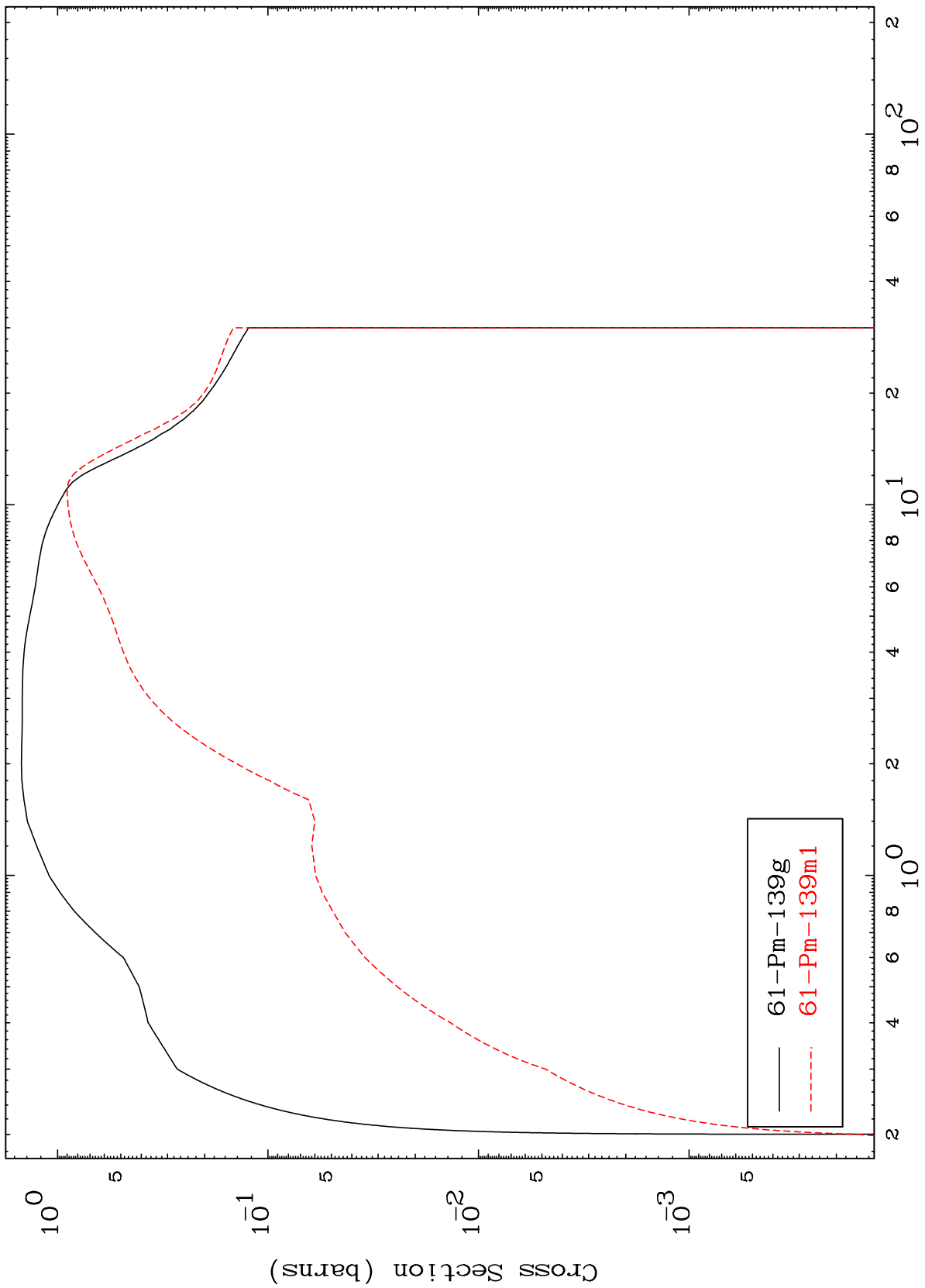
61-Pm-139



MAT 6125

61-Pm-139

Inelastic
Radionuclide Production Cross Section



Incident Energy (MeV)

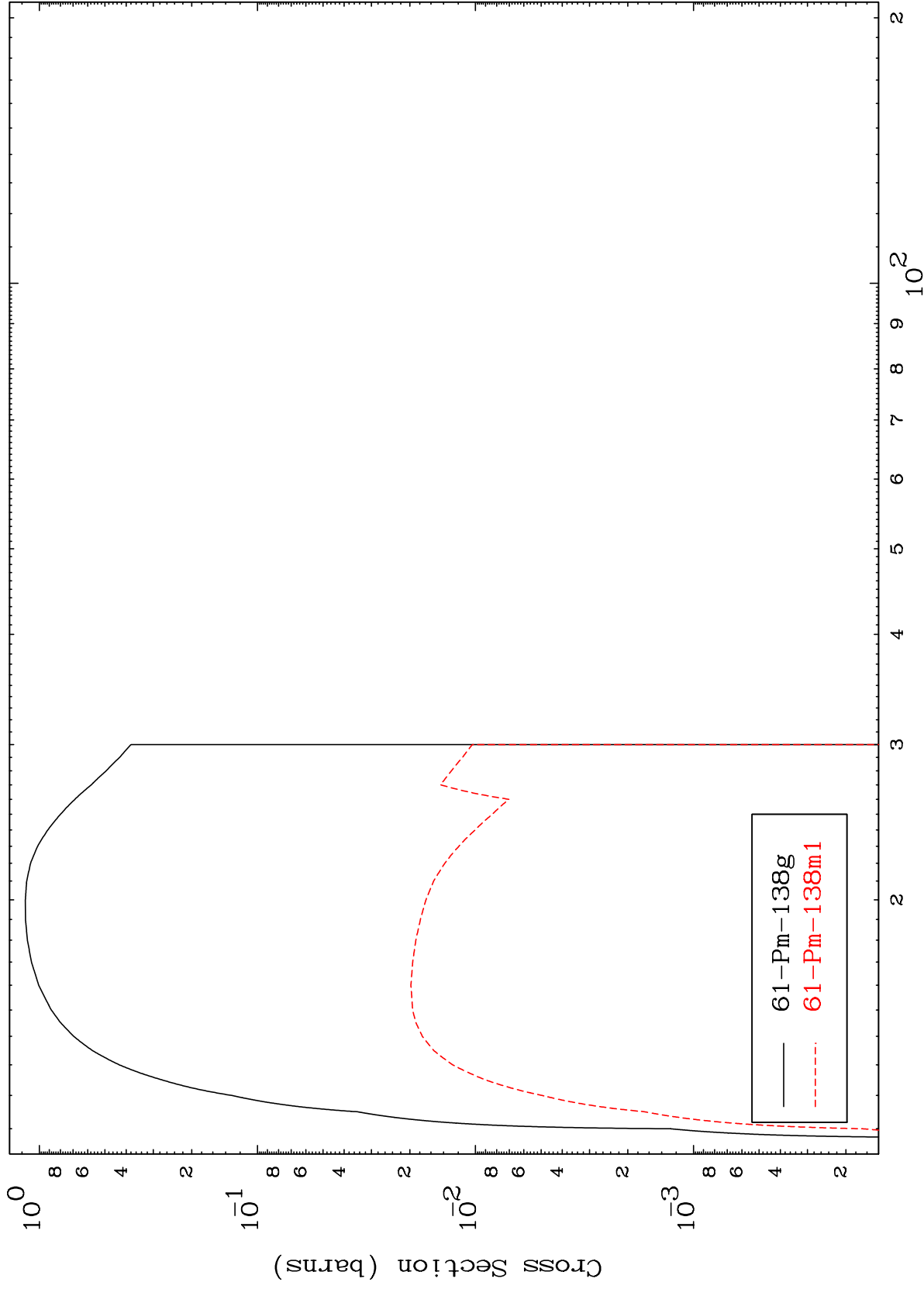
61-Pm-139

132

MAT 6125

61-Pm-139

(n,2n)
Radionuclide Production Cross Section



61-Pm-139

Incident Energy (MeV)

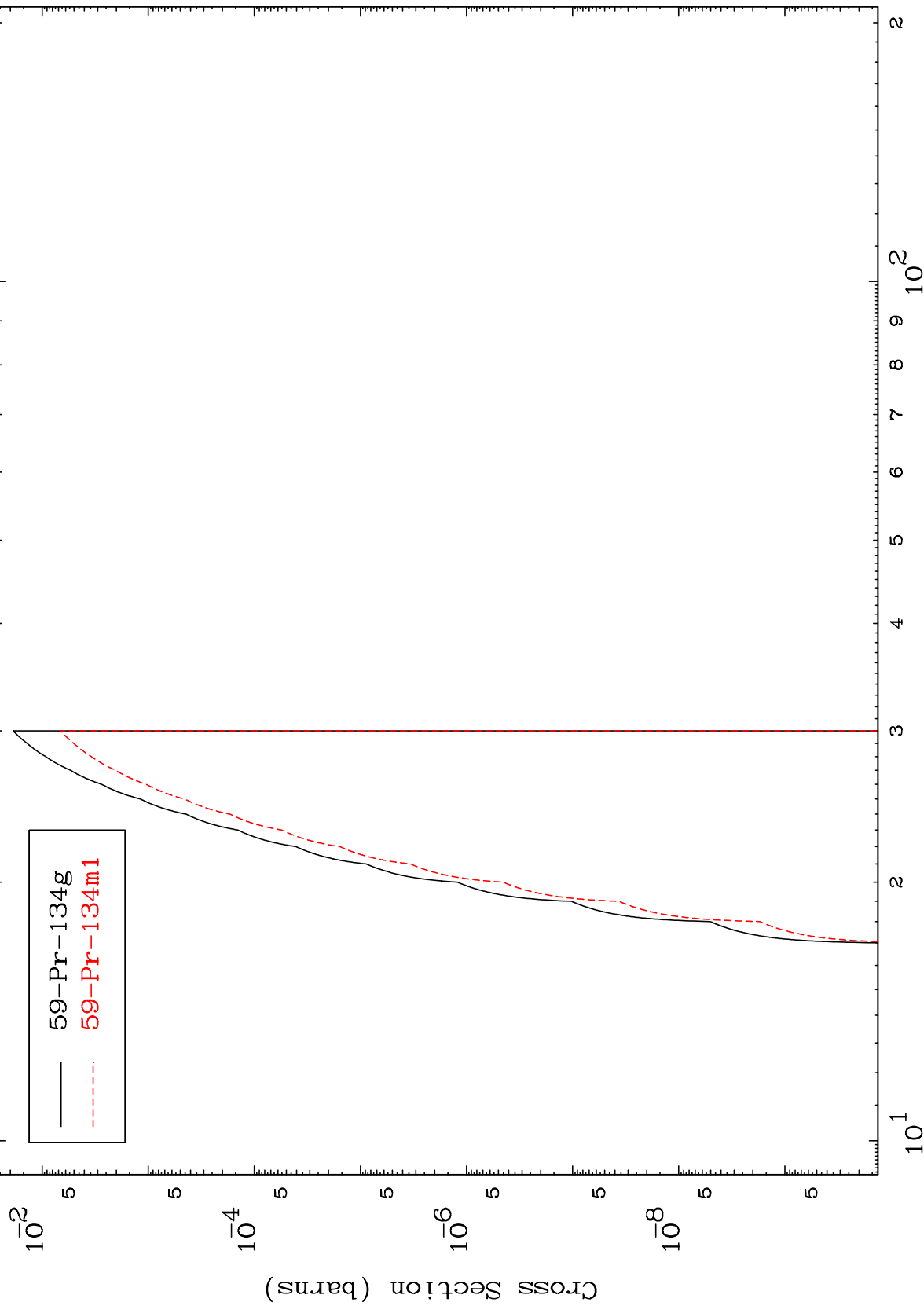
133

MAT 6125

(n,2n) α

61-Pm-139

Radionuclide Production Cross Section



59-Pr-134g
59-Pr-134m1

Incident Energy (MeV)

61-Pm-139

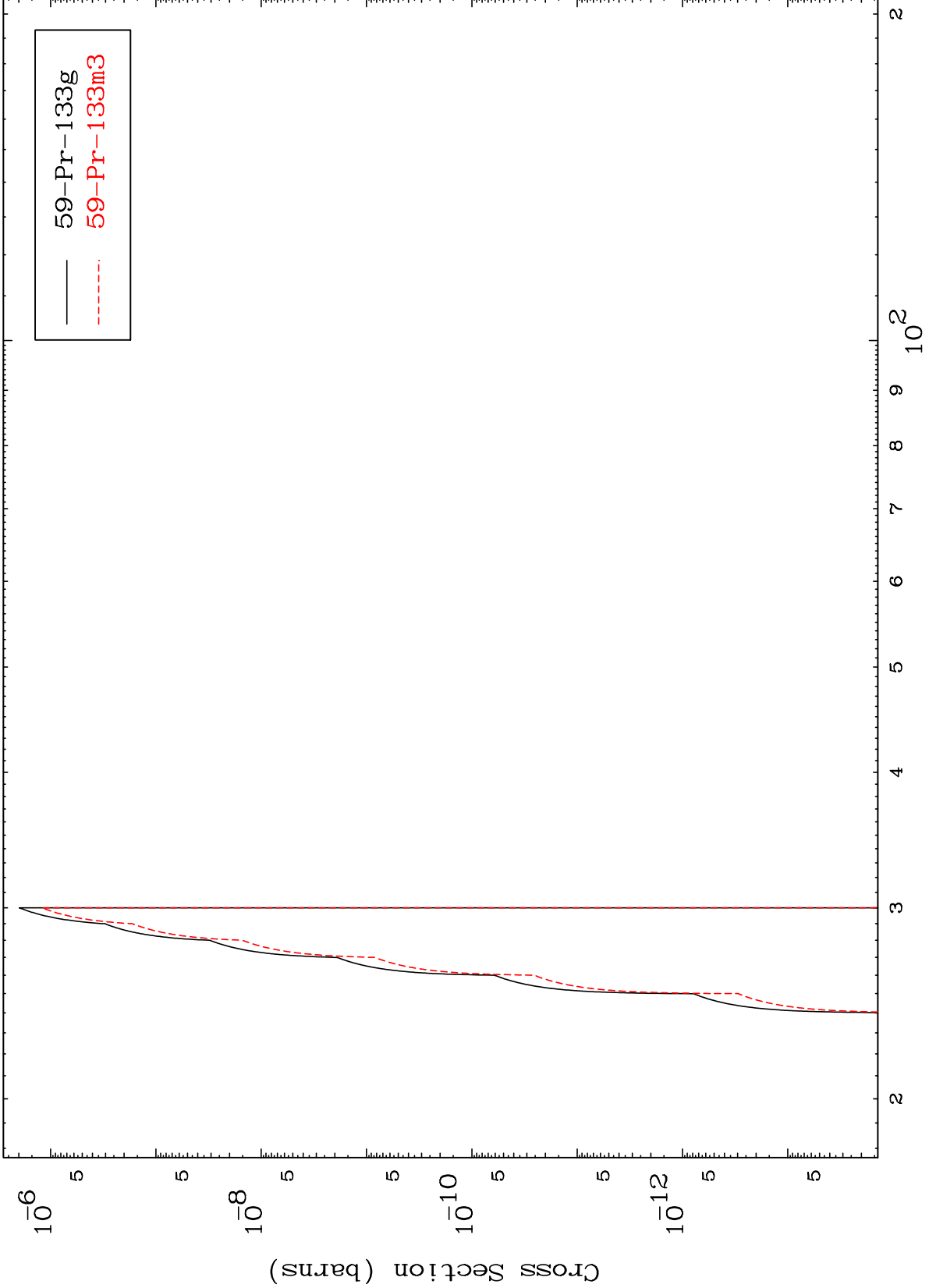
134

MAT 6125

(n,3n) α

61-Pm-139

Radionuclide Production Cross Section



135

Incident Energy (MeV)

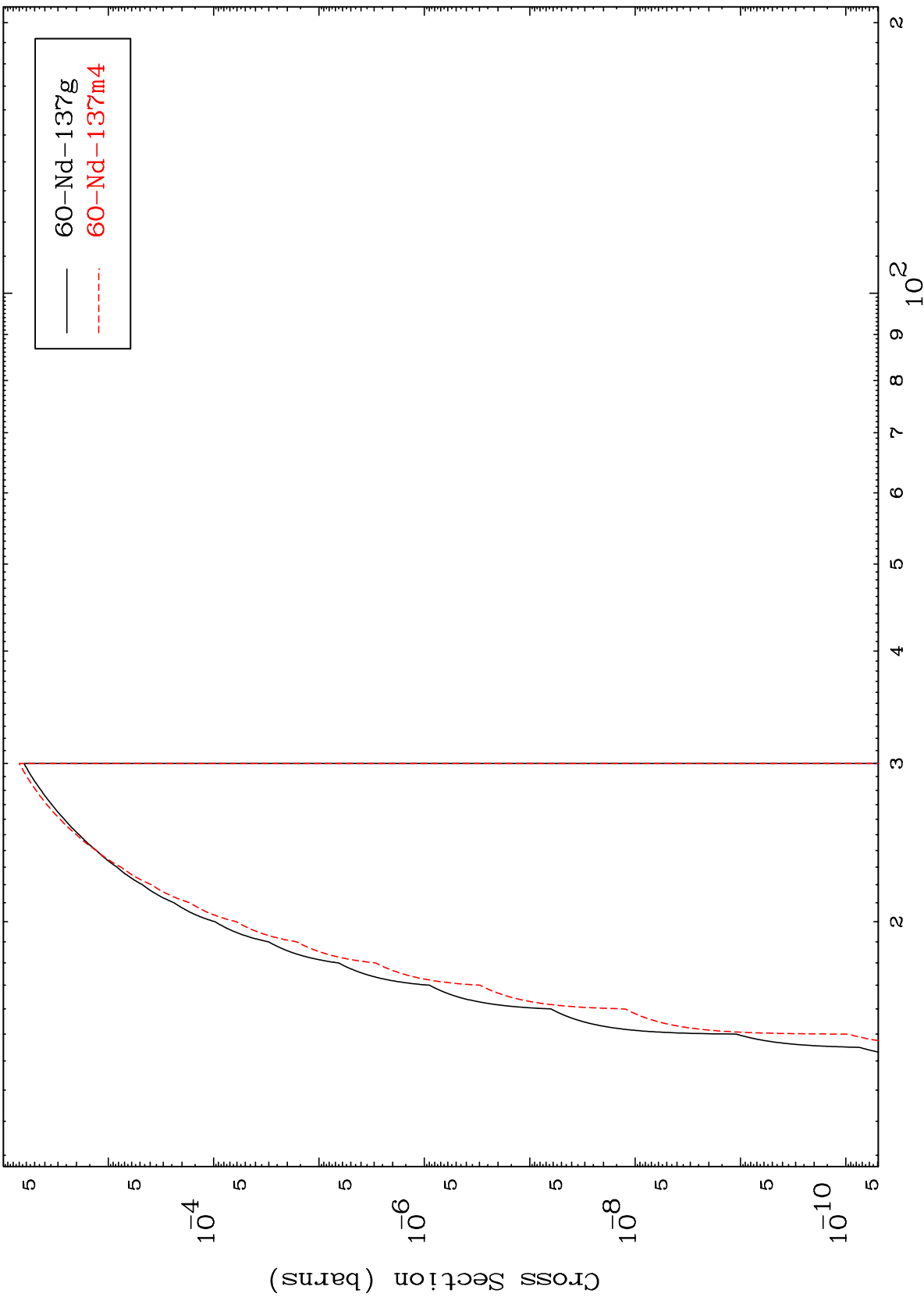
61-Pm-139

MAT 6125

(n,n') d

61-Pm-139

Radionuclide Production Cross Section



136

Incident Energy (MeV)

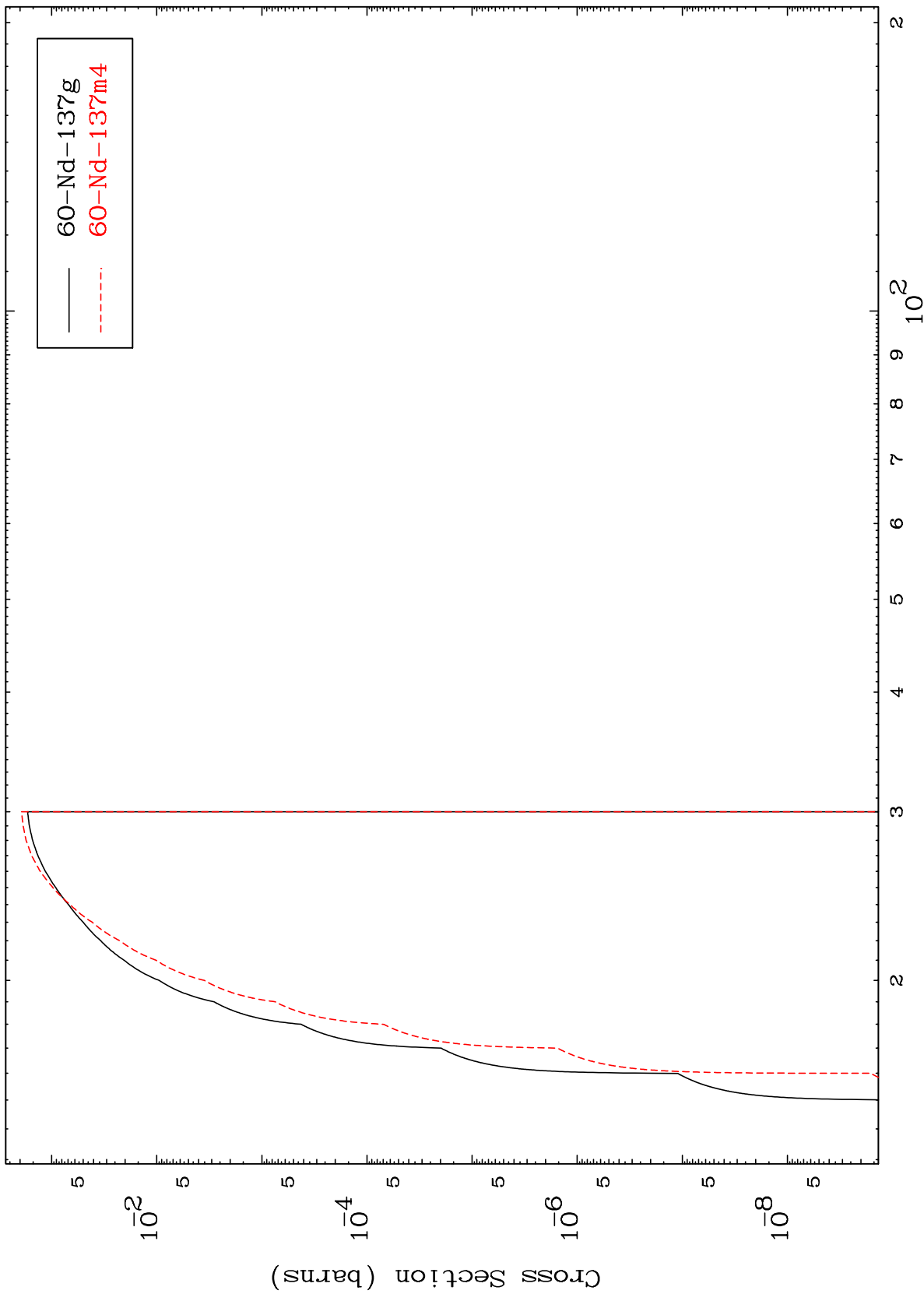
61-Pm-139

MAT 6125

(n,2n) p

61-Pm-139

Radionuclide Production Cross Section



137

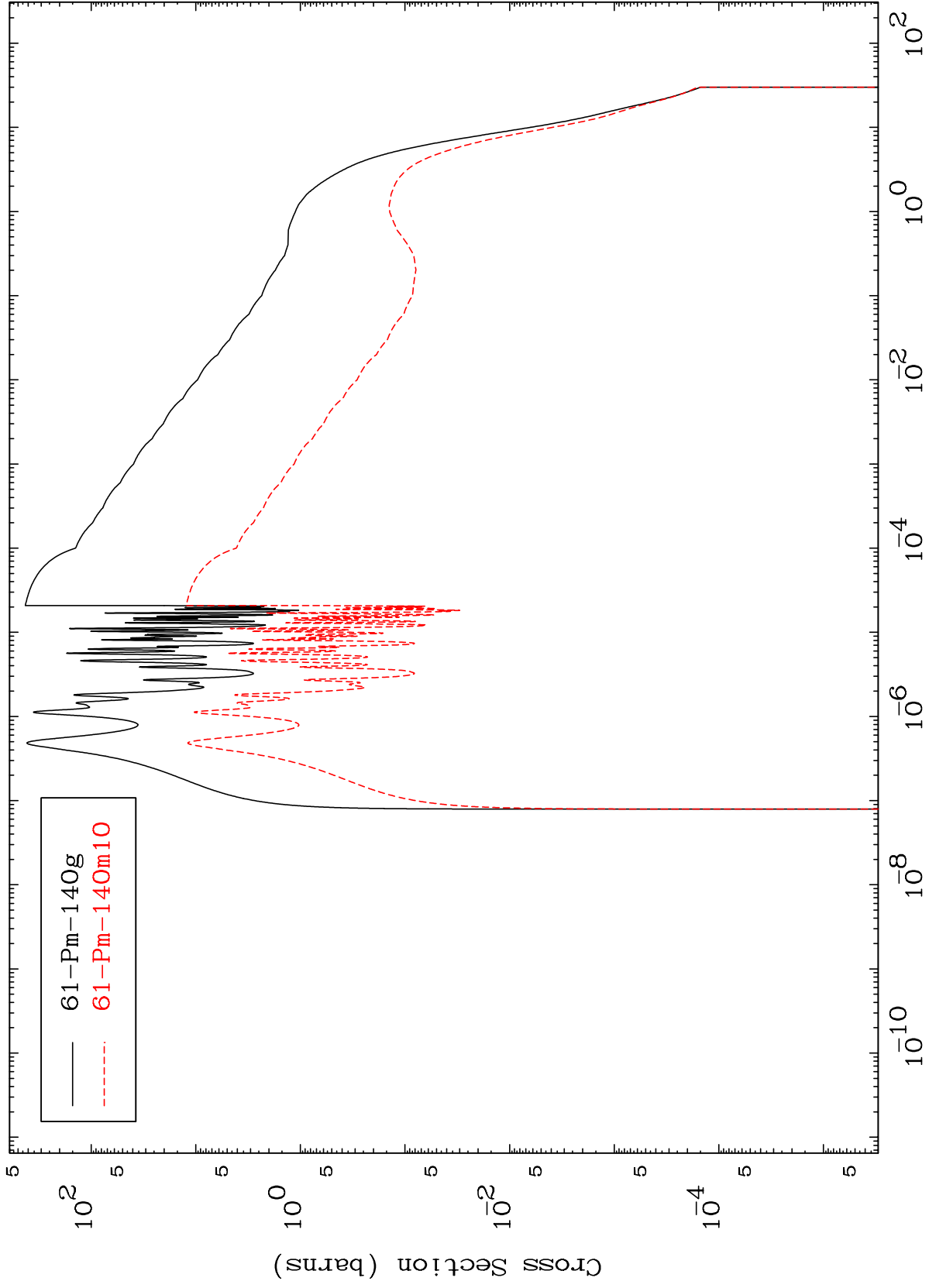
Incident Energy (MeV)

61-Pm-139

MAT 6125

61-Pm-139

Radionuclide Production Cross Section



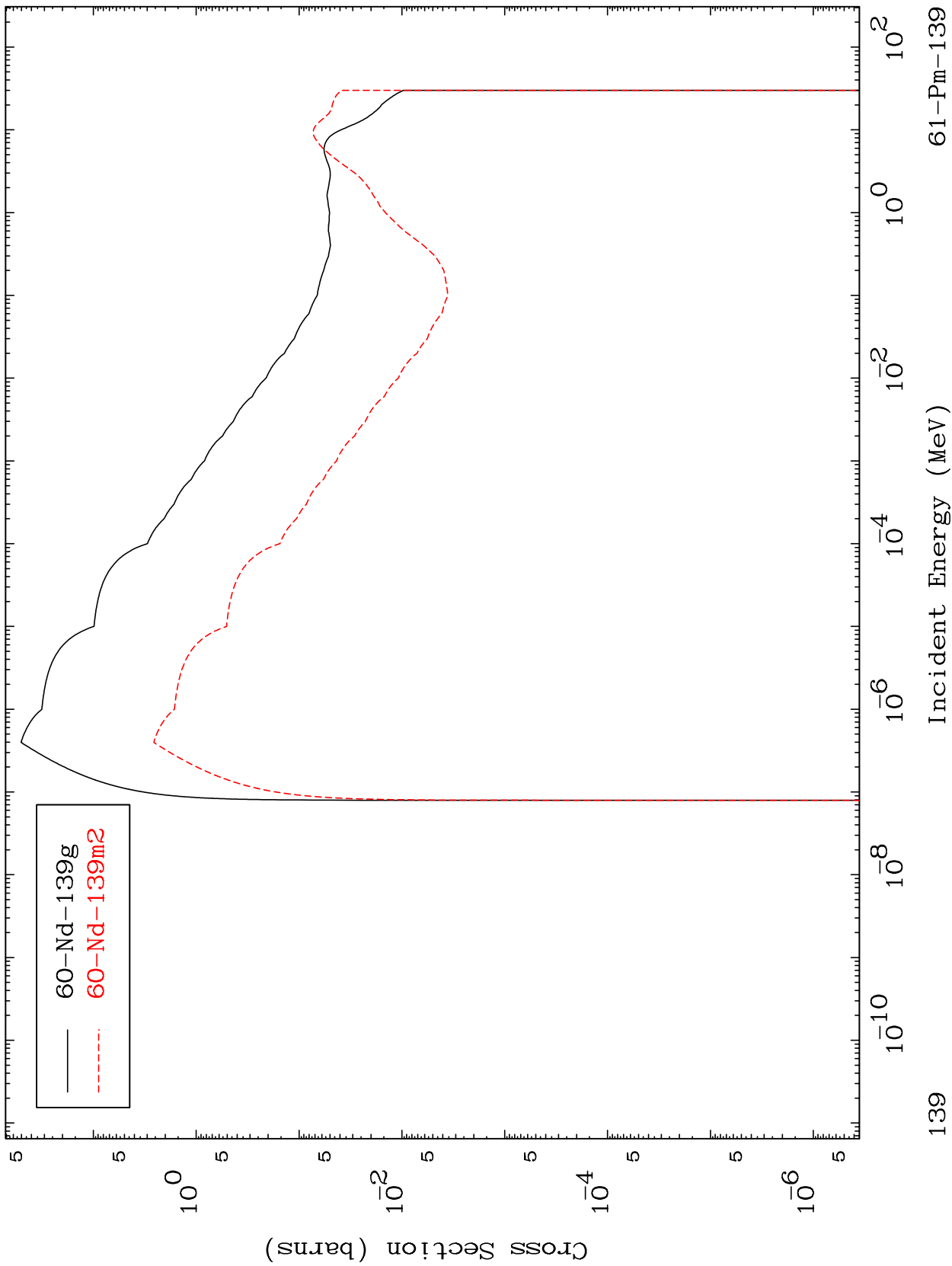
138

61-Pm-139

MAT 6125

61-Pm-139

(n,p)
Radionuclide Production Cross Section



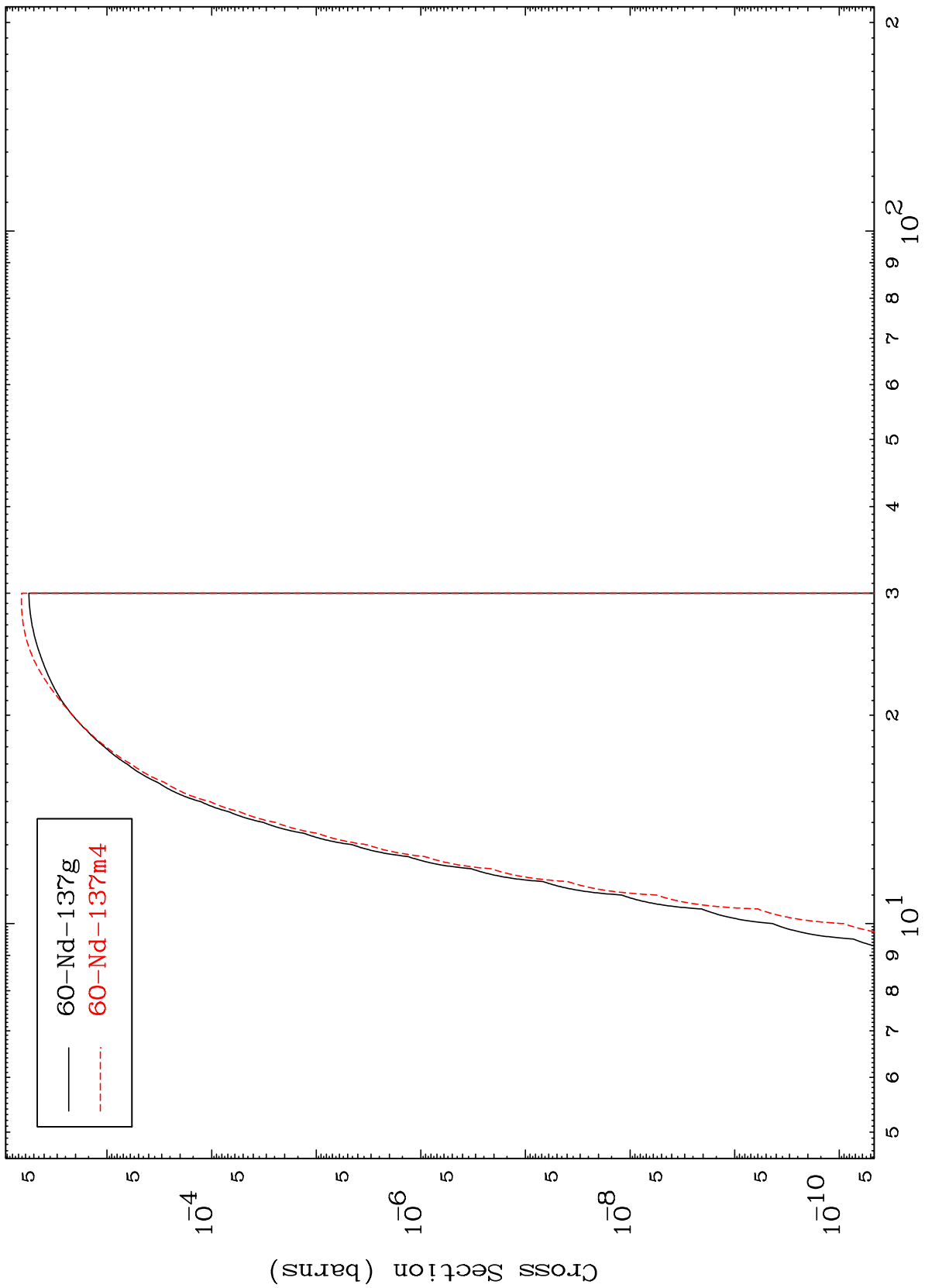
139

61-Pm-139

MAT 6125

61-Pm-139

(n, t)
Radionuclide Production Cross Section



140

Incident Energy (MeV)

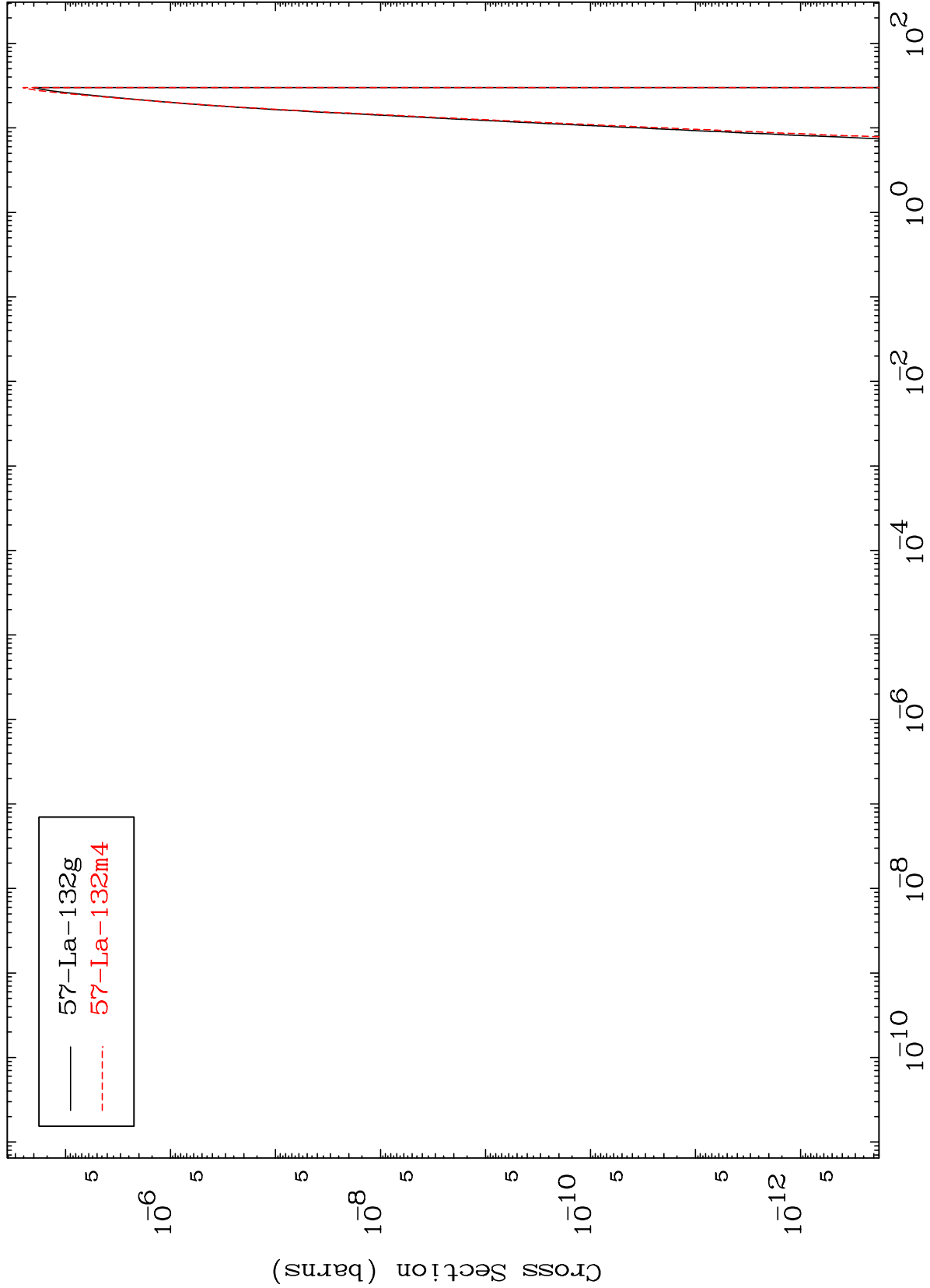
61-Pm-139

MAT 6125

(n,2α)

61-Pm-139

Radionuclide Production Cross Section



57-La-132g
57-La-132m4

141

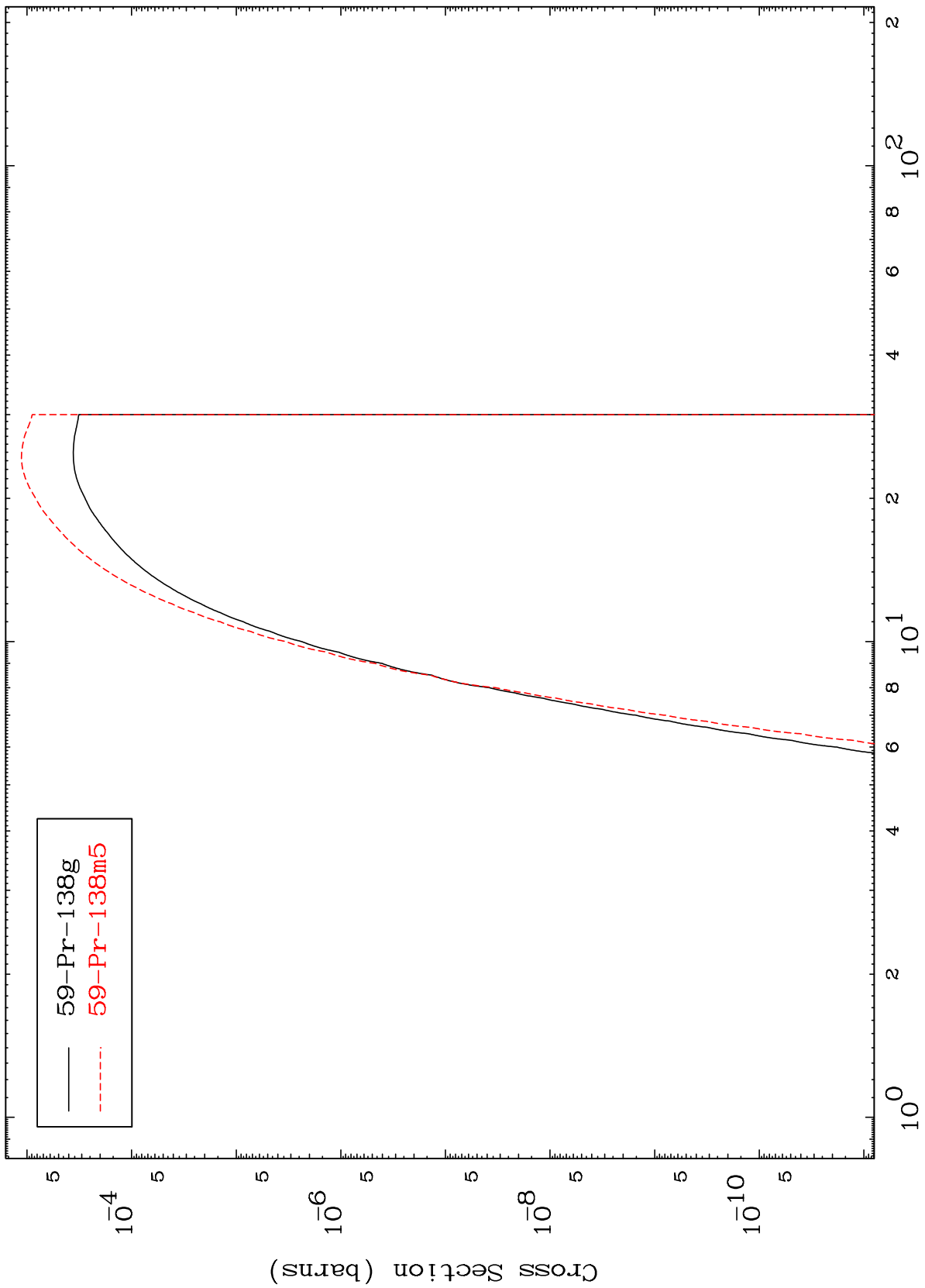
Incident Energy (MeV)

61-Pm-139

MAT 6125

61-Pm-139

(n,2p)
Radionuclide Production Cross Section



— 59-Pr-138g
- - - 59-Pr-138m5

61-Pm-139

Incident Energy (MeV)

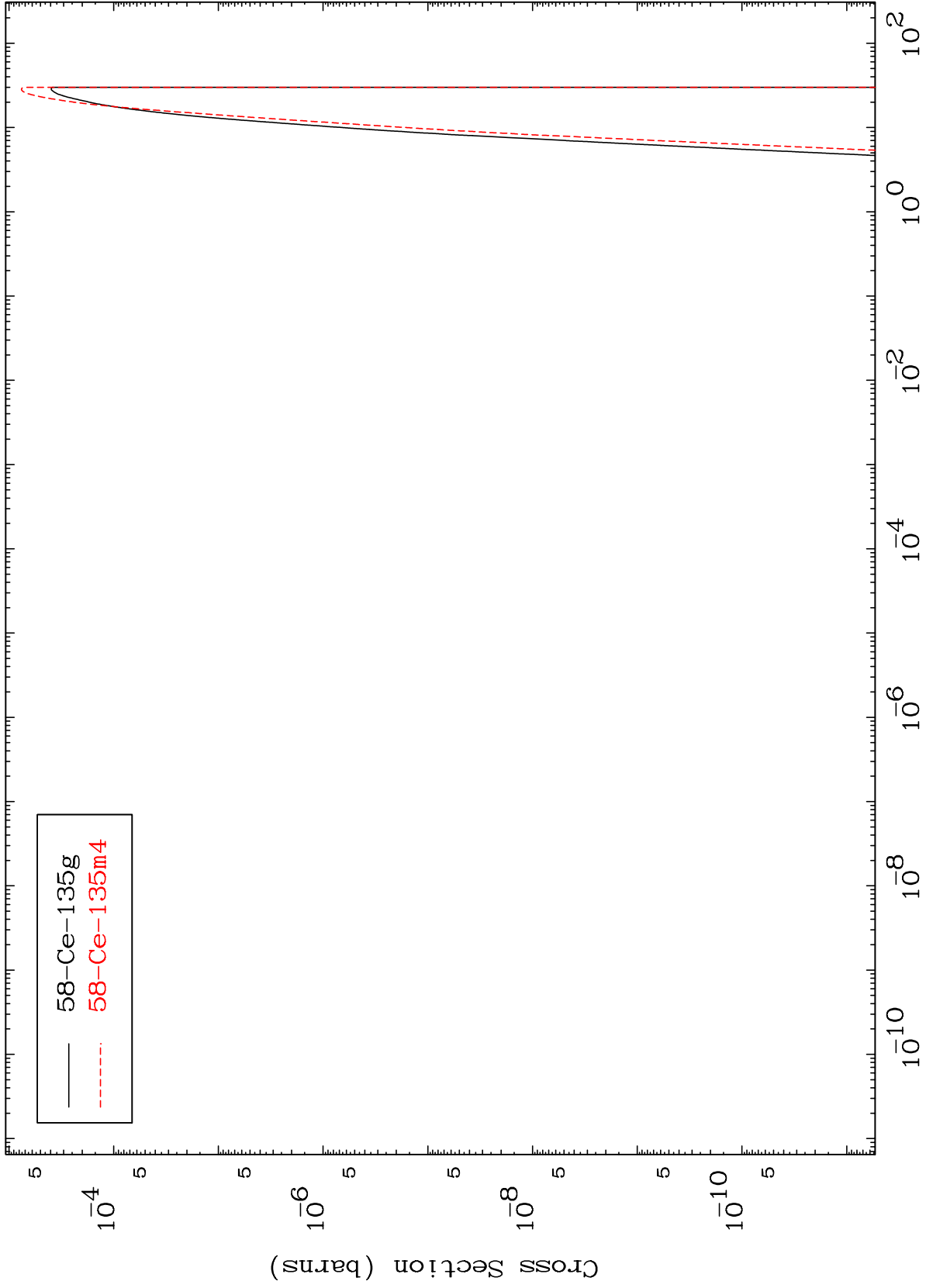
142

MAT 6125

(n,p) α

61-Pm-139

Radionuclide Production Cross Section



143

Incident Energy (MeV)

61-Pm-139