

Program EVALPLOT
(Version 2017-1)

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

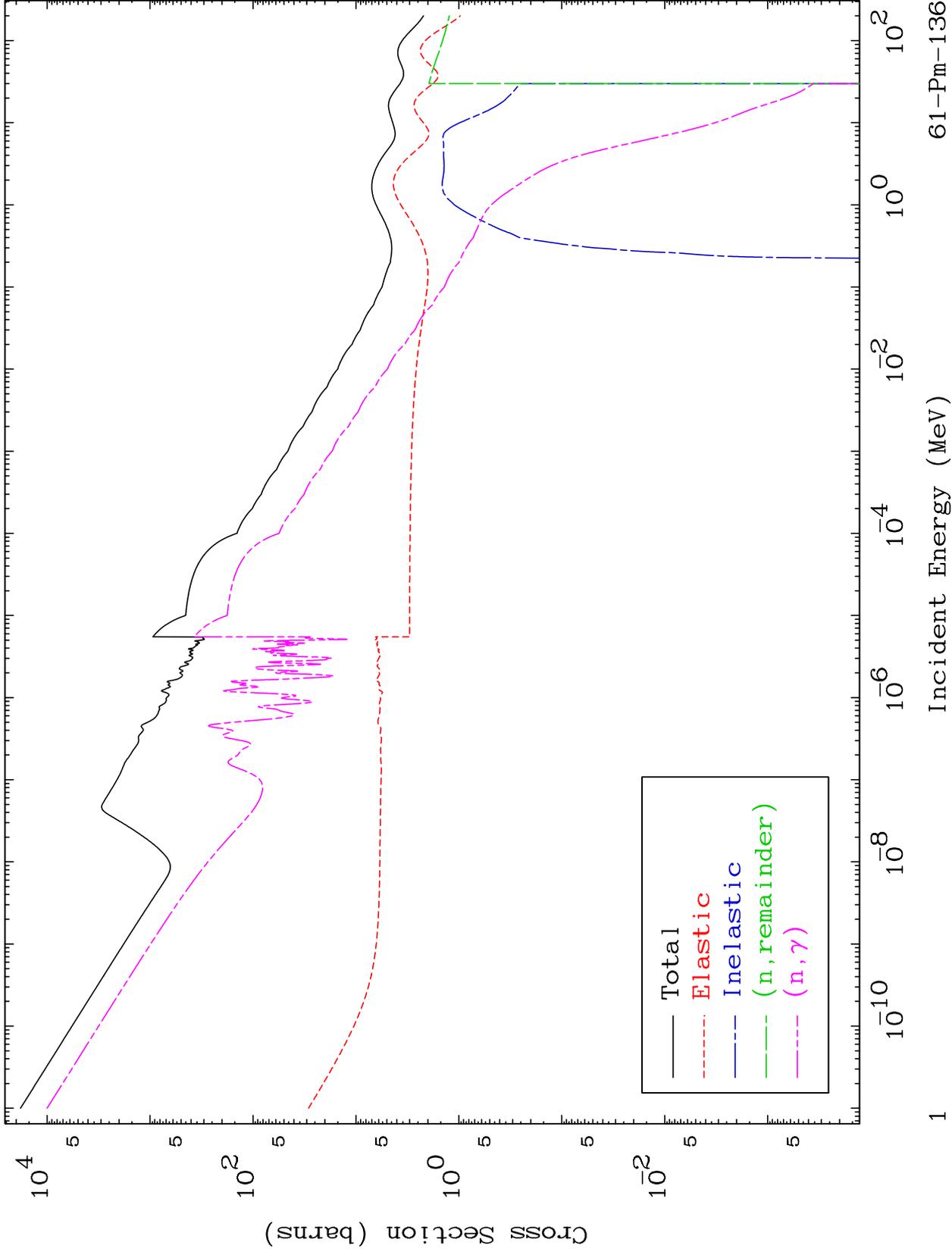
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6116

Major
293 Kelvin Cross Sections

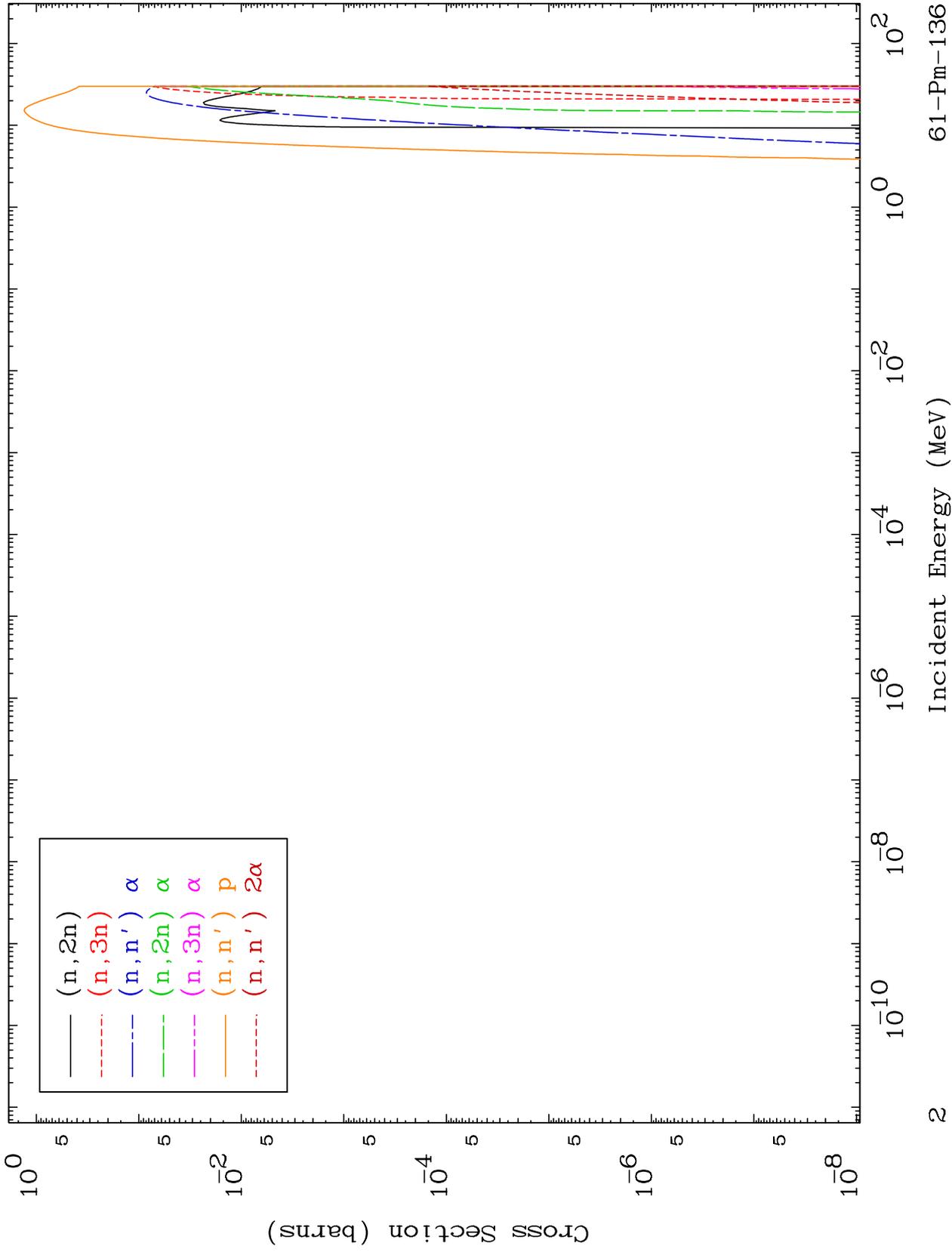
61-Pm-136

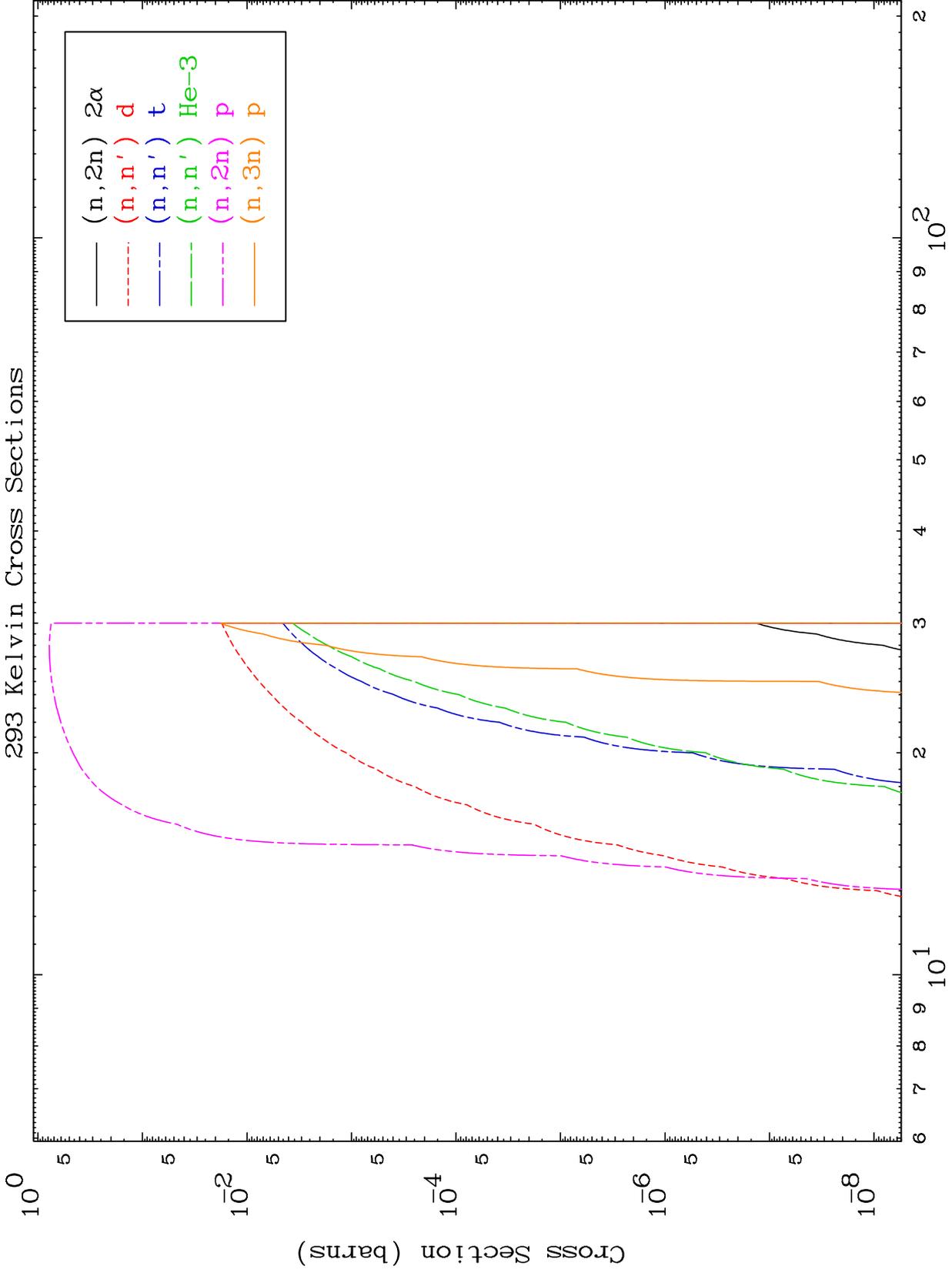


MAT 6116

Neutron Production
293 Kelvin Cross Sections

61-Pm-136

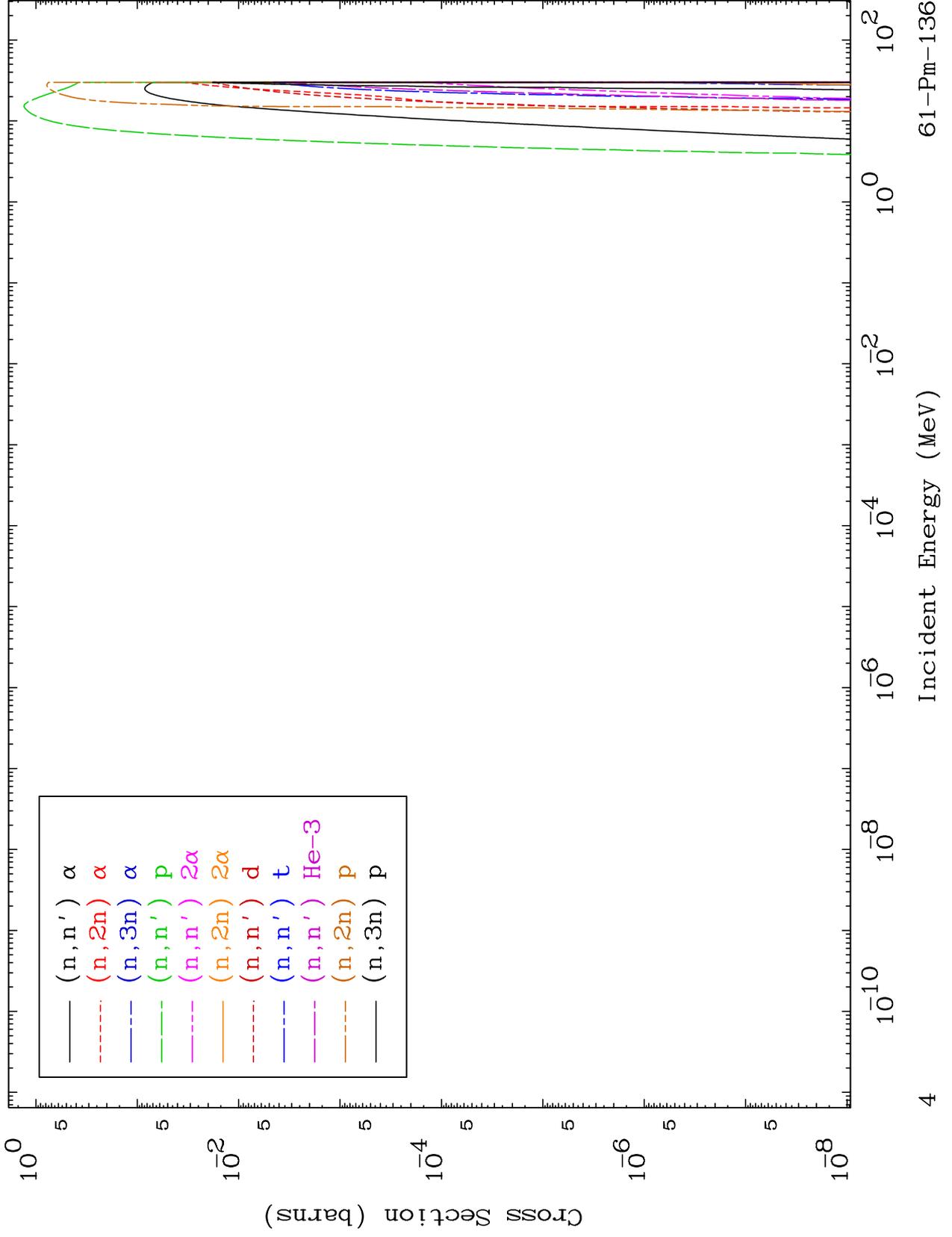




MAT 6116

Charged Particle
293 Kelvin Cross Sections

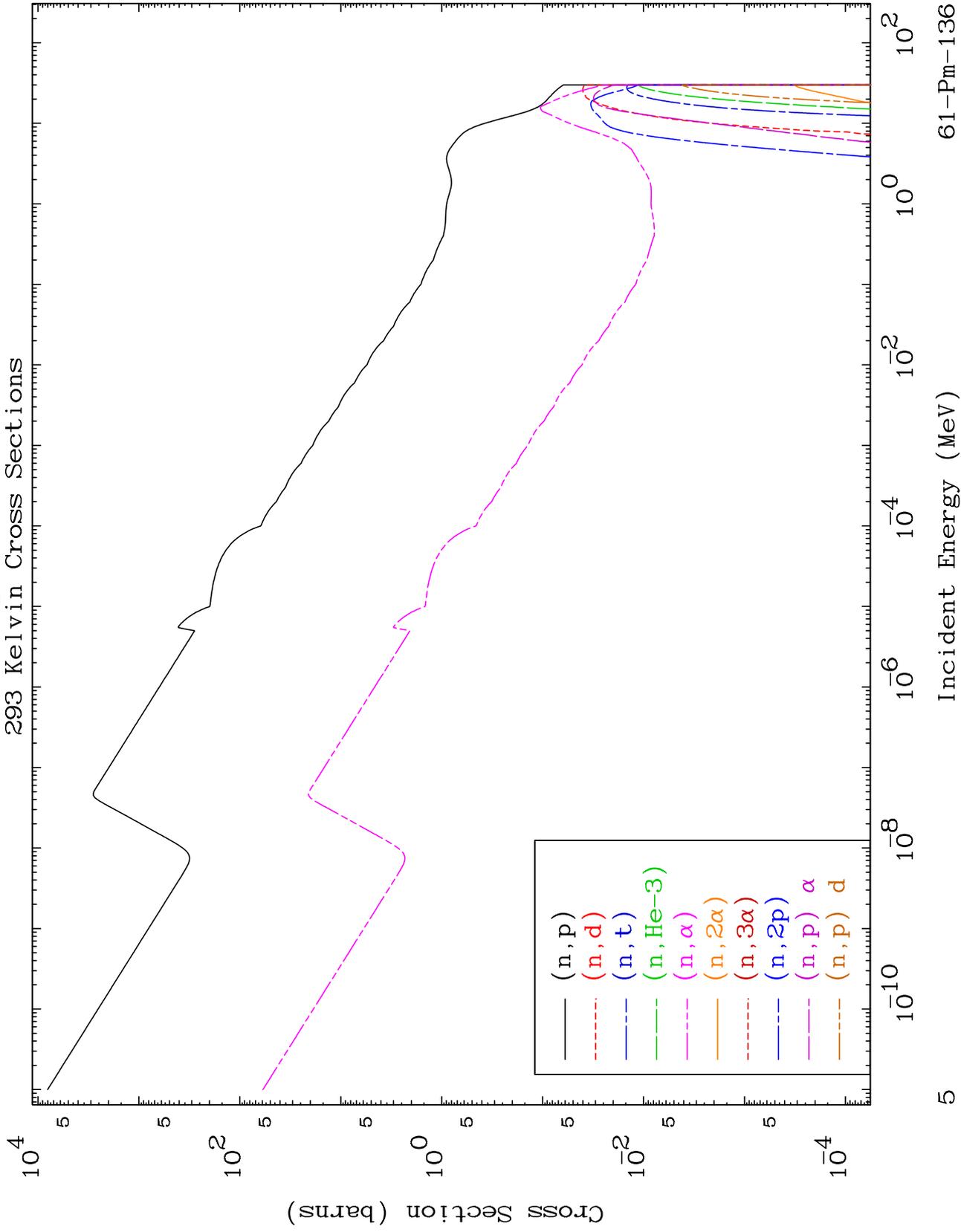
61-Pm-136



MAT 61116

Charged Particle
293 Kelvin Cross Sections

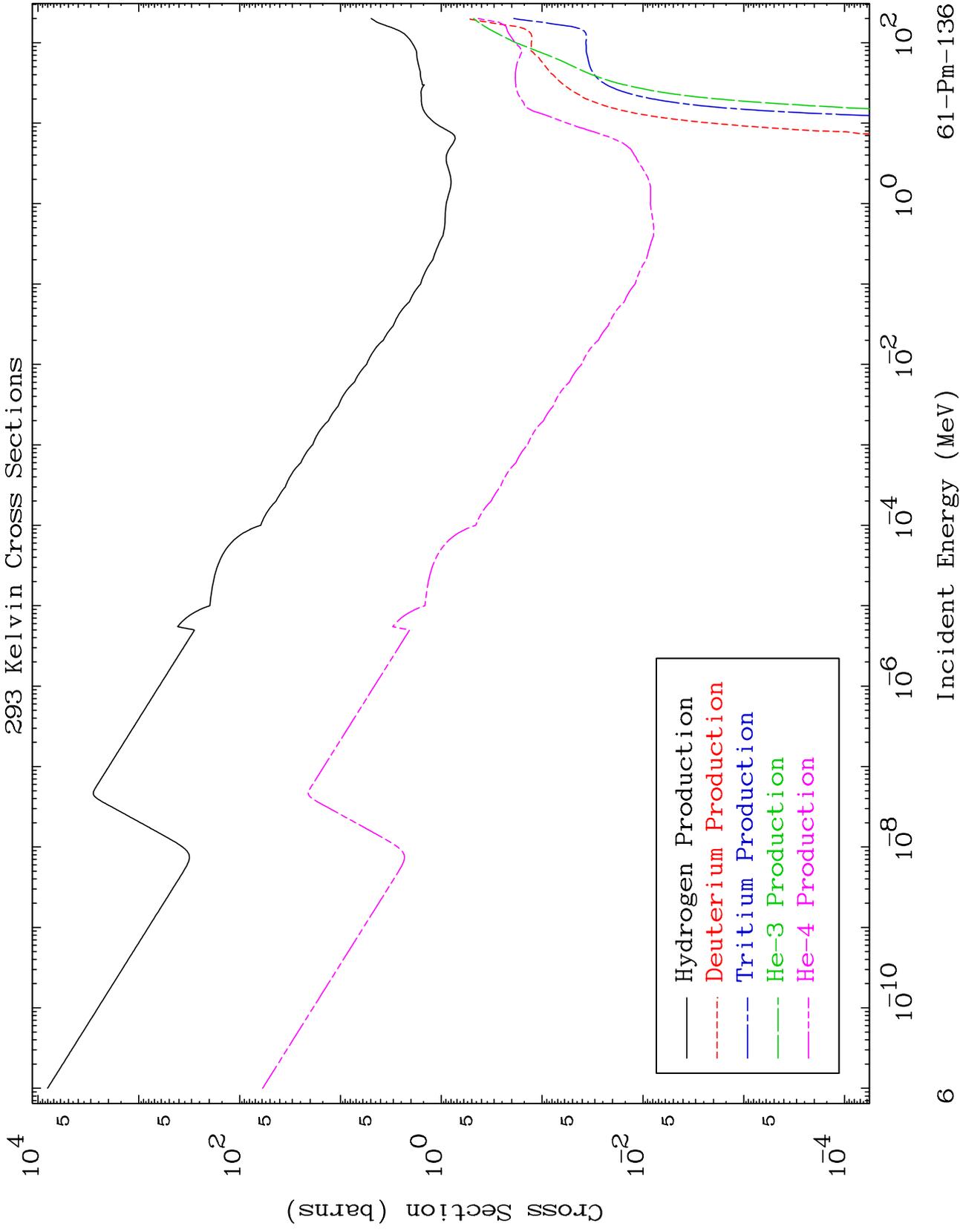
61-Pm-136



MAT 6116

Particle Production
293 Kelvin Cross Sections

61-Pm-136

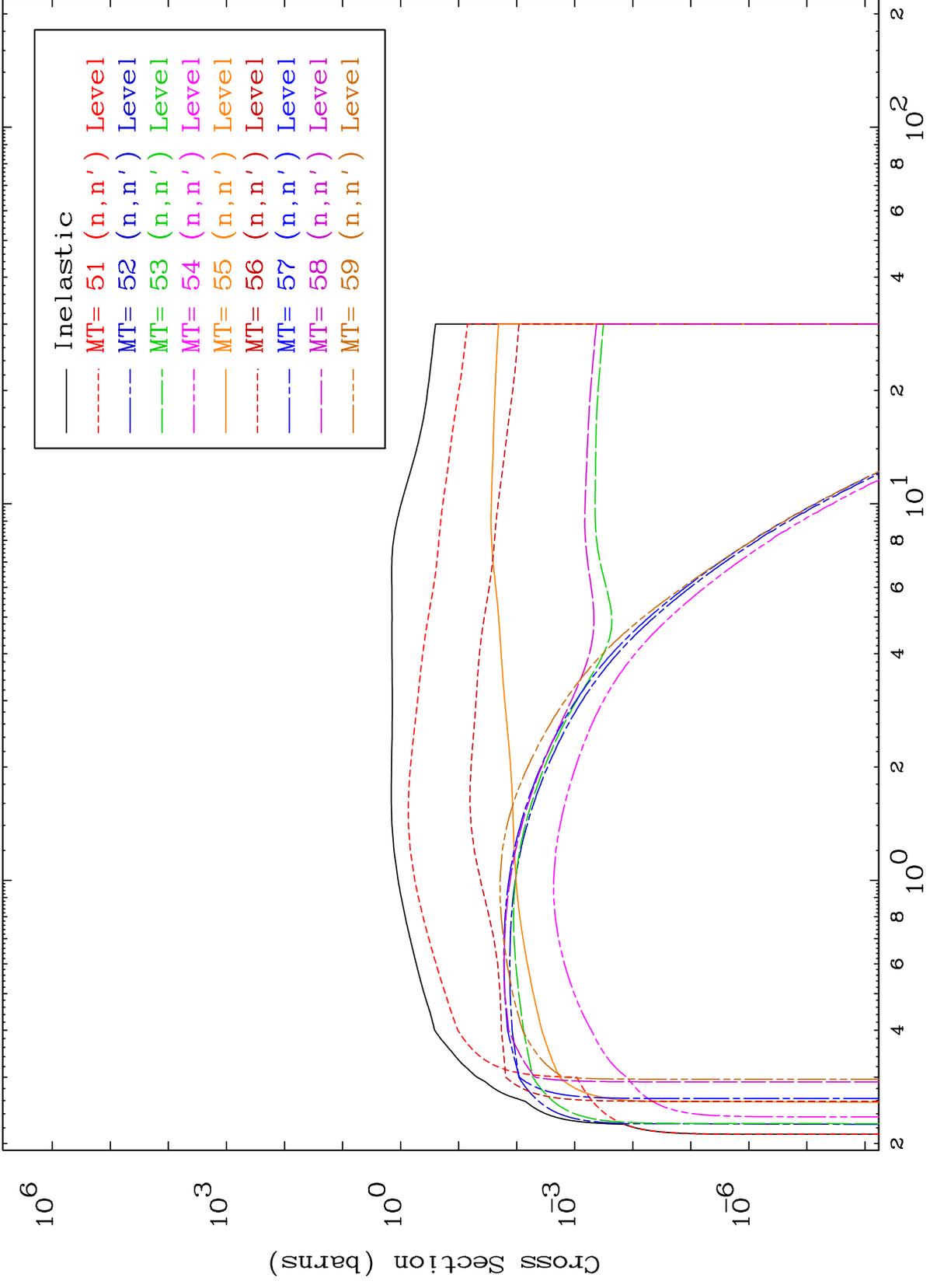


MAT 6116

(n,n') Level

61-Pm-136

293 Kelvin Cross Sections

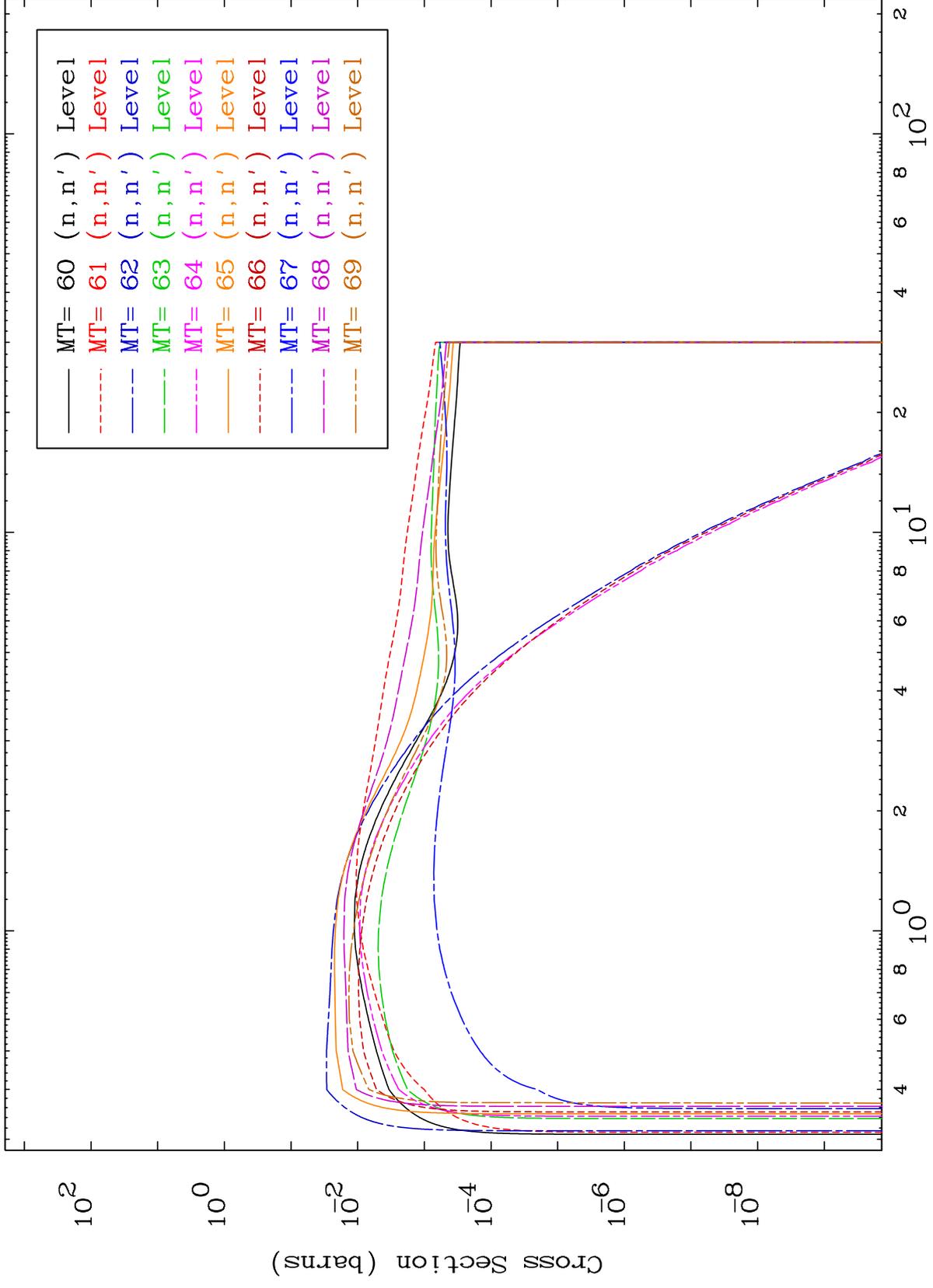


MAT 6116

(n,n') Level

61-Pm-136

293 Kelvin Cross Sections



8

Incident Energy (MeV)

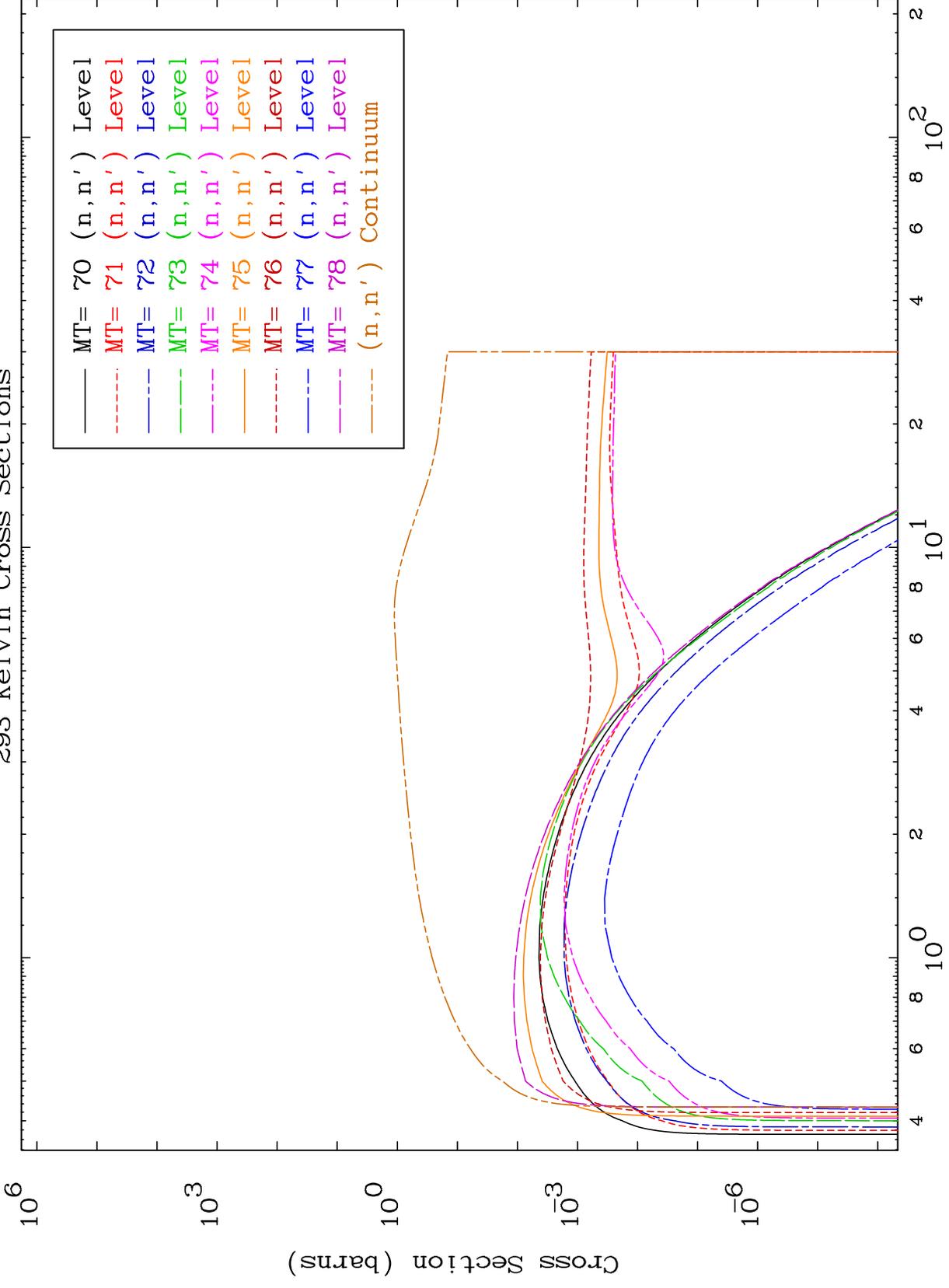
61-Pm-136

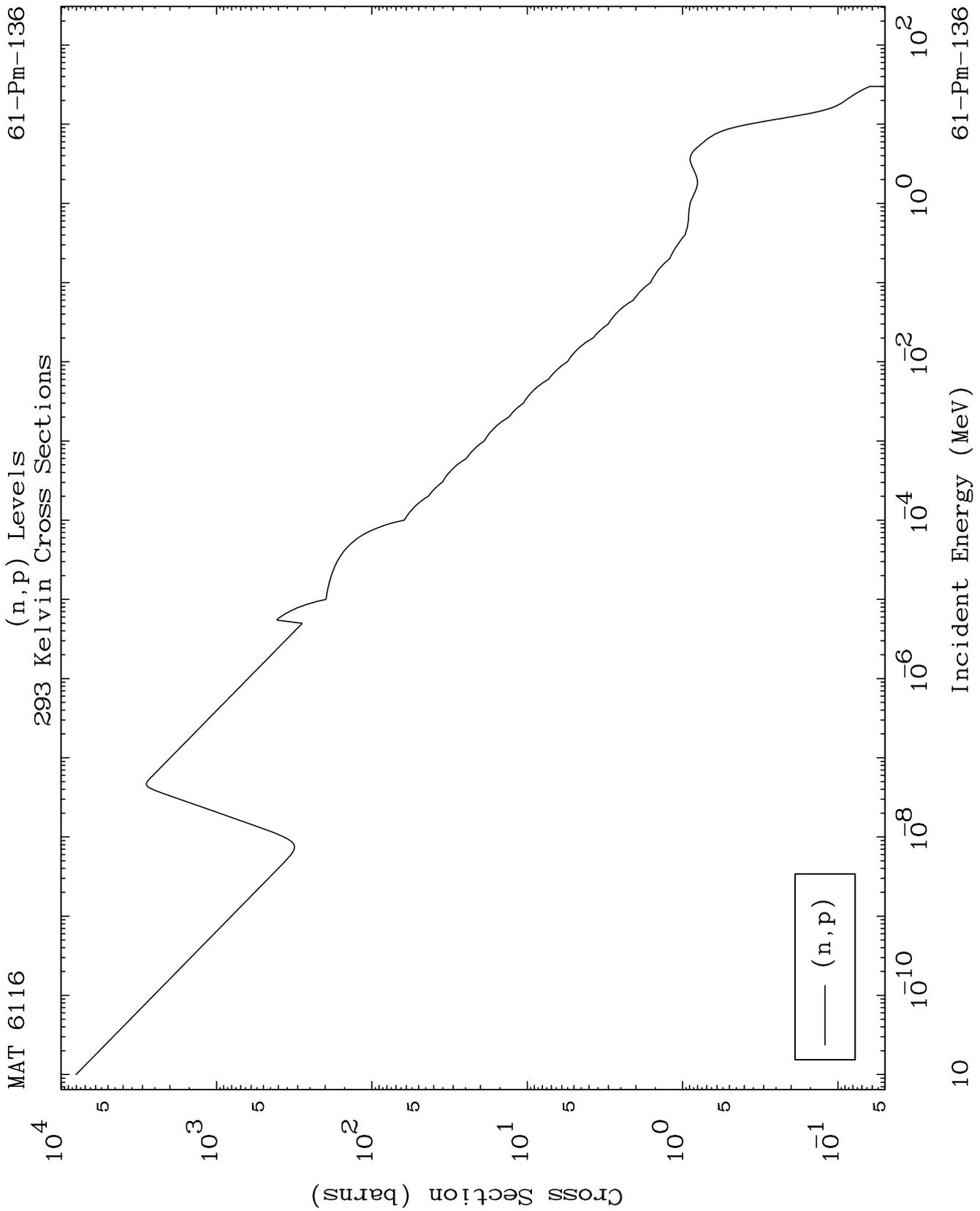
MAT 6116

(n,n') Level

61-Pm-136

293 Kelvin Cross Sections

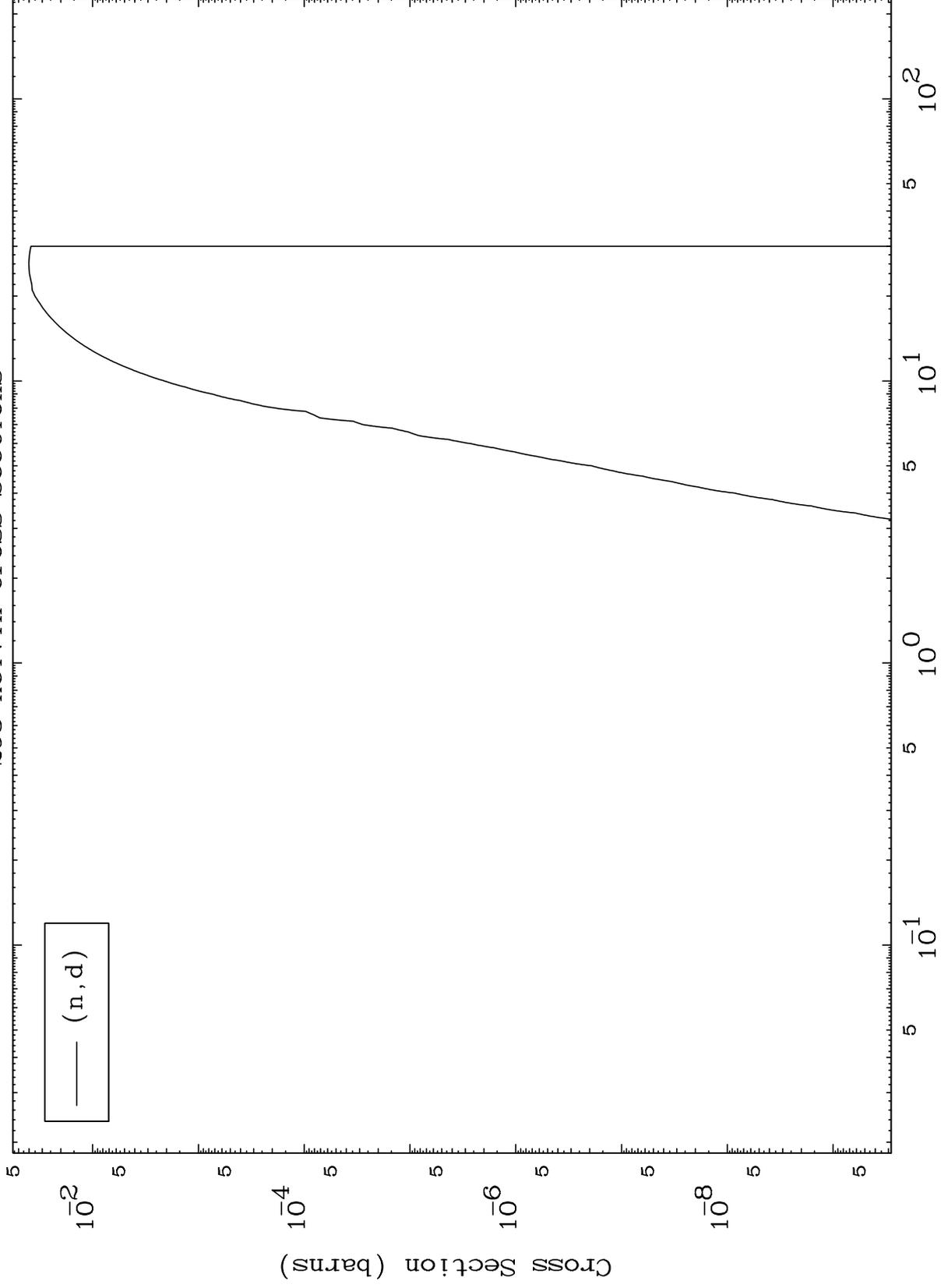




MAT 6116

(n,d) Levels
293 Kelvin Cross Sections

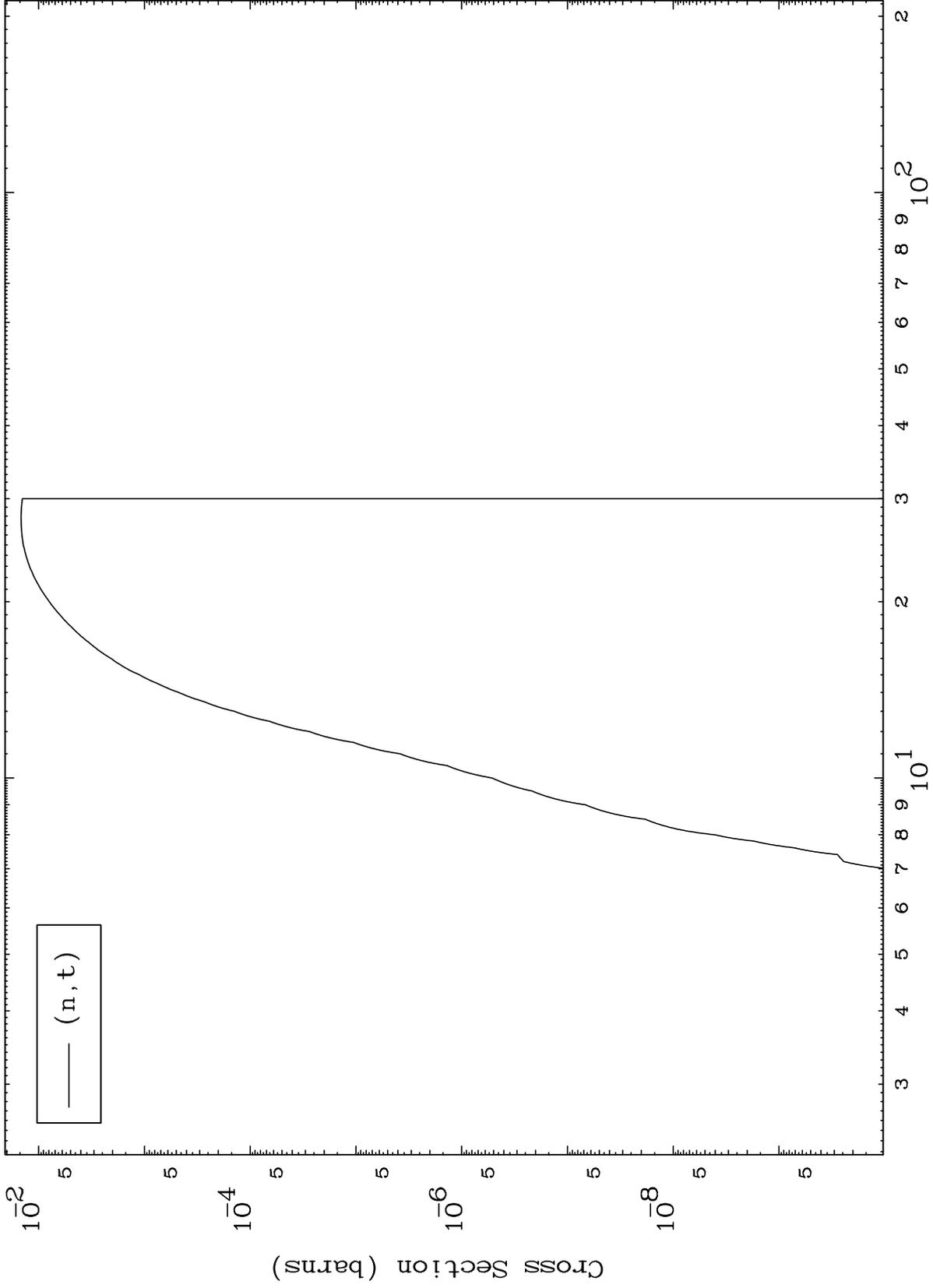
61-Pm-136



MAT 6116

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-136



12

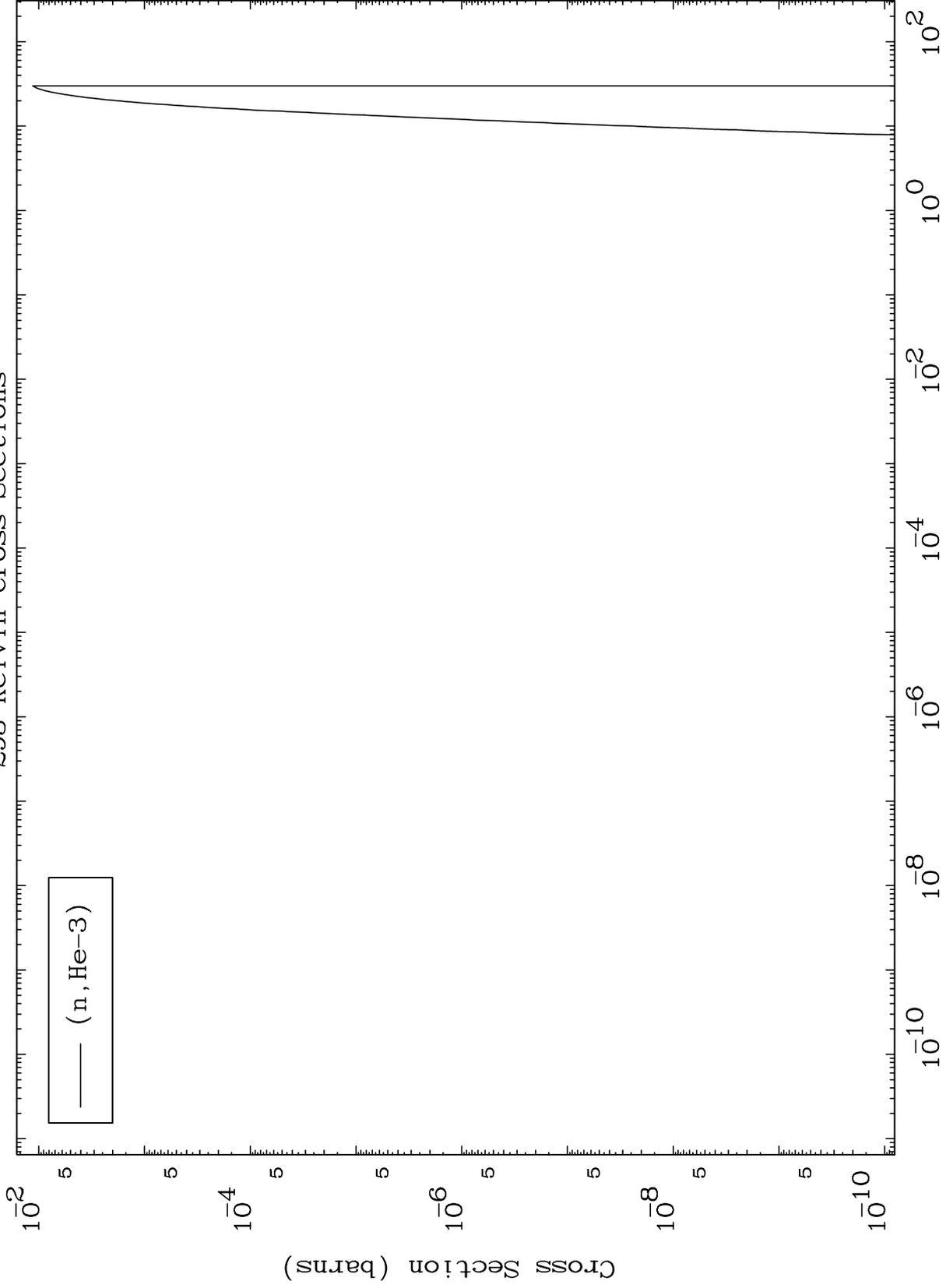
Incident Energy (MeV)

61-Pm-136

MAT 6116

(n,He3) Levels
293 Kelvin Cross Sections

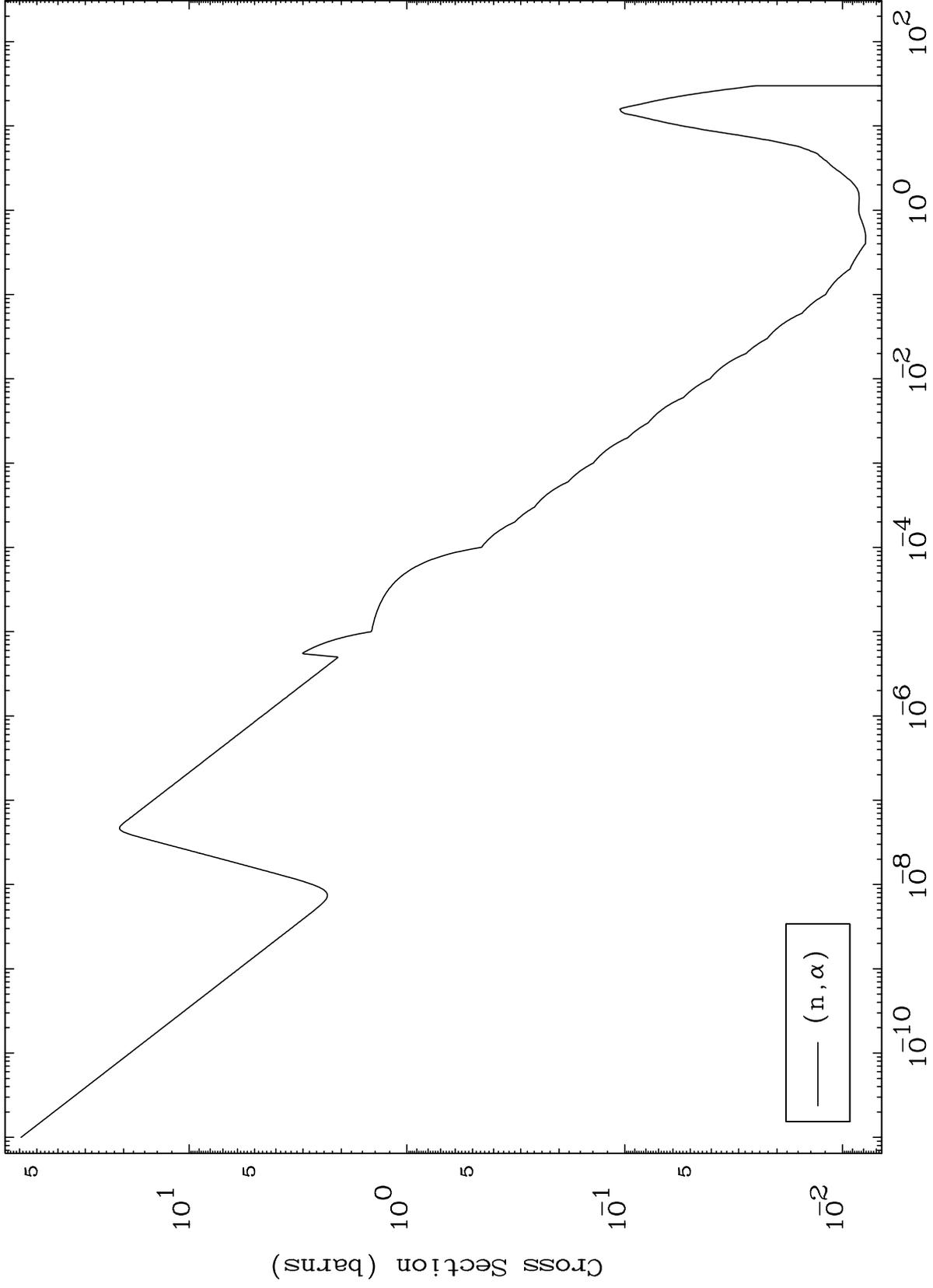
61-Pm-136



MAT 6116

(n,α) Levels
293 Kelvin Cross Sections

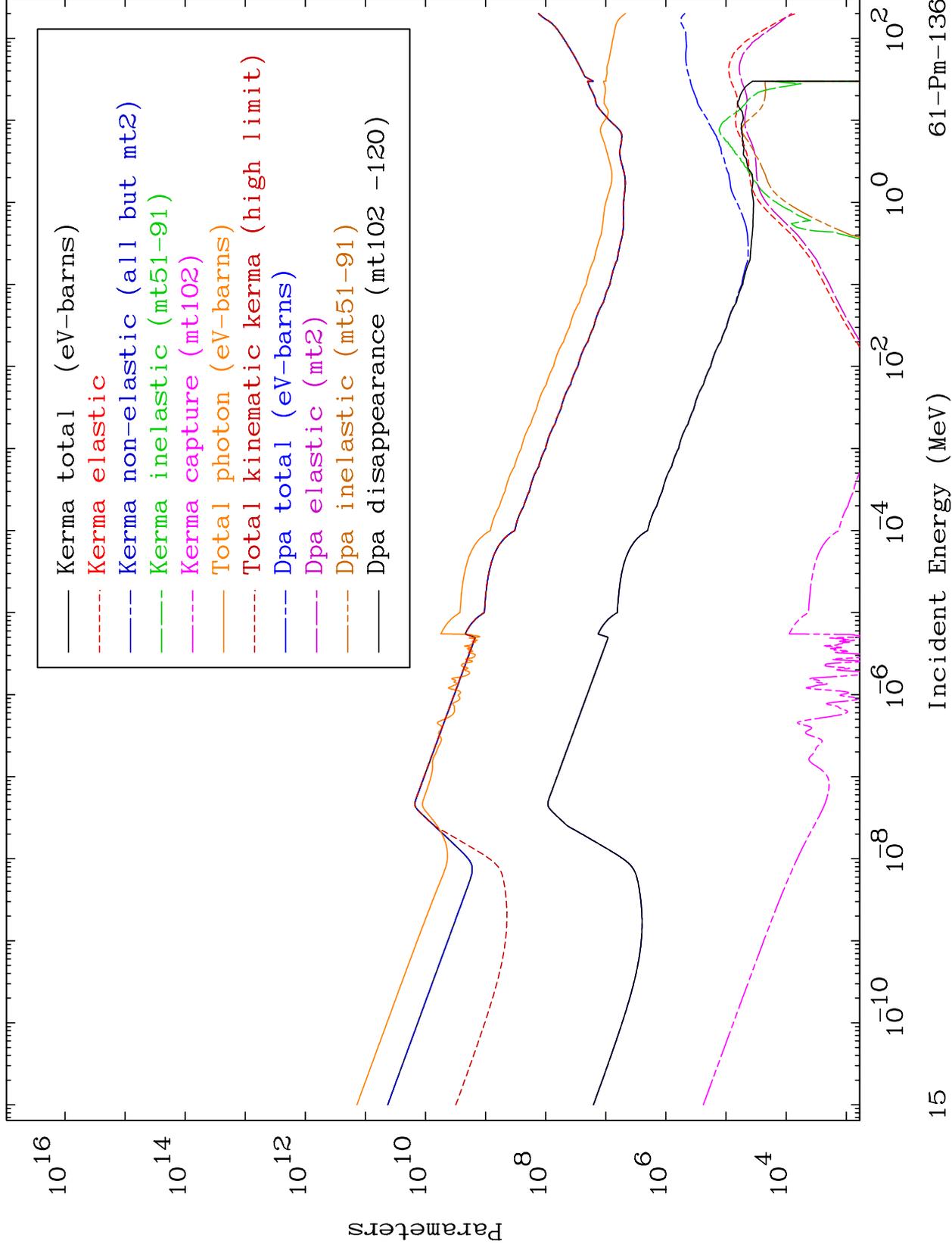
61-Pm-136

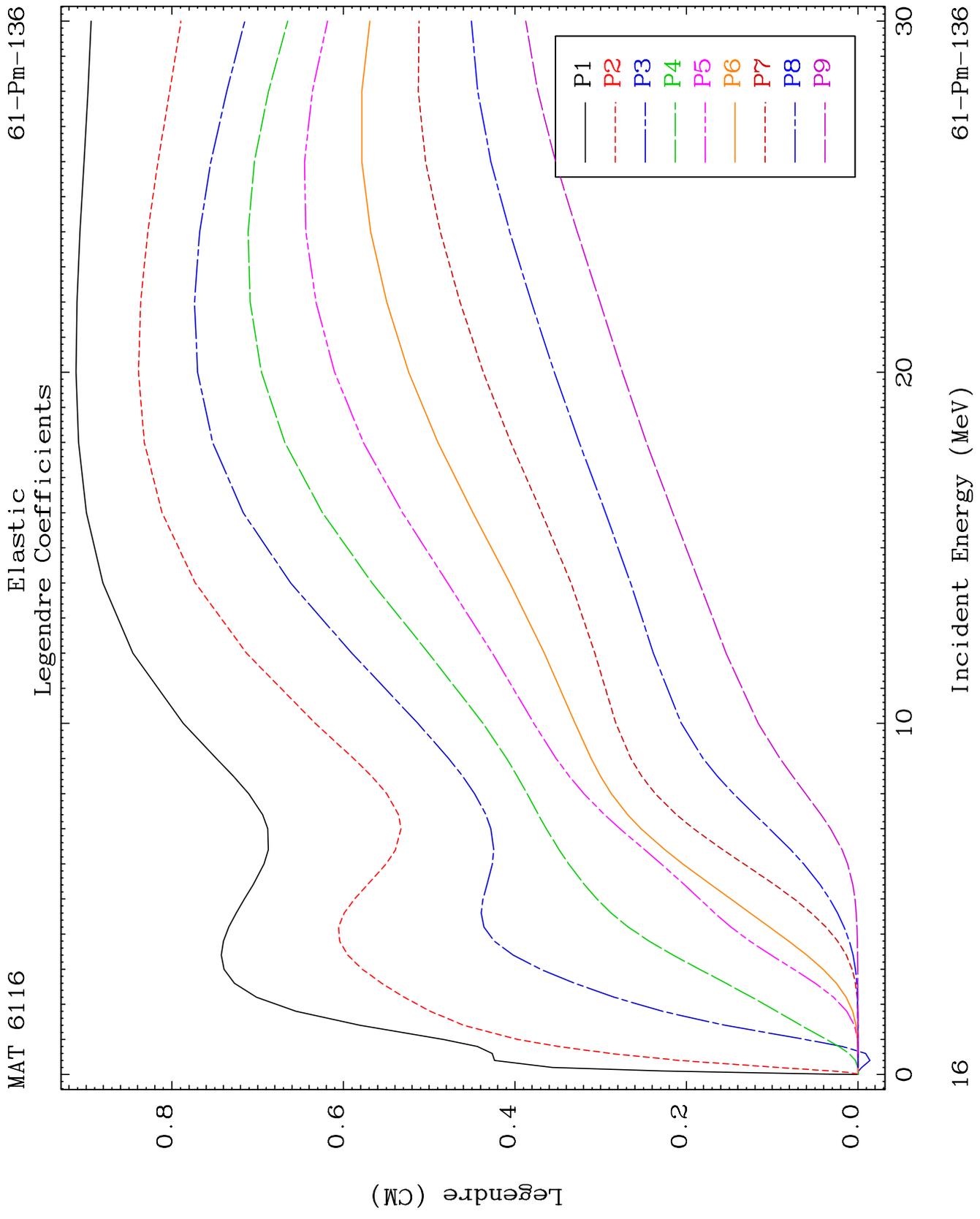


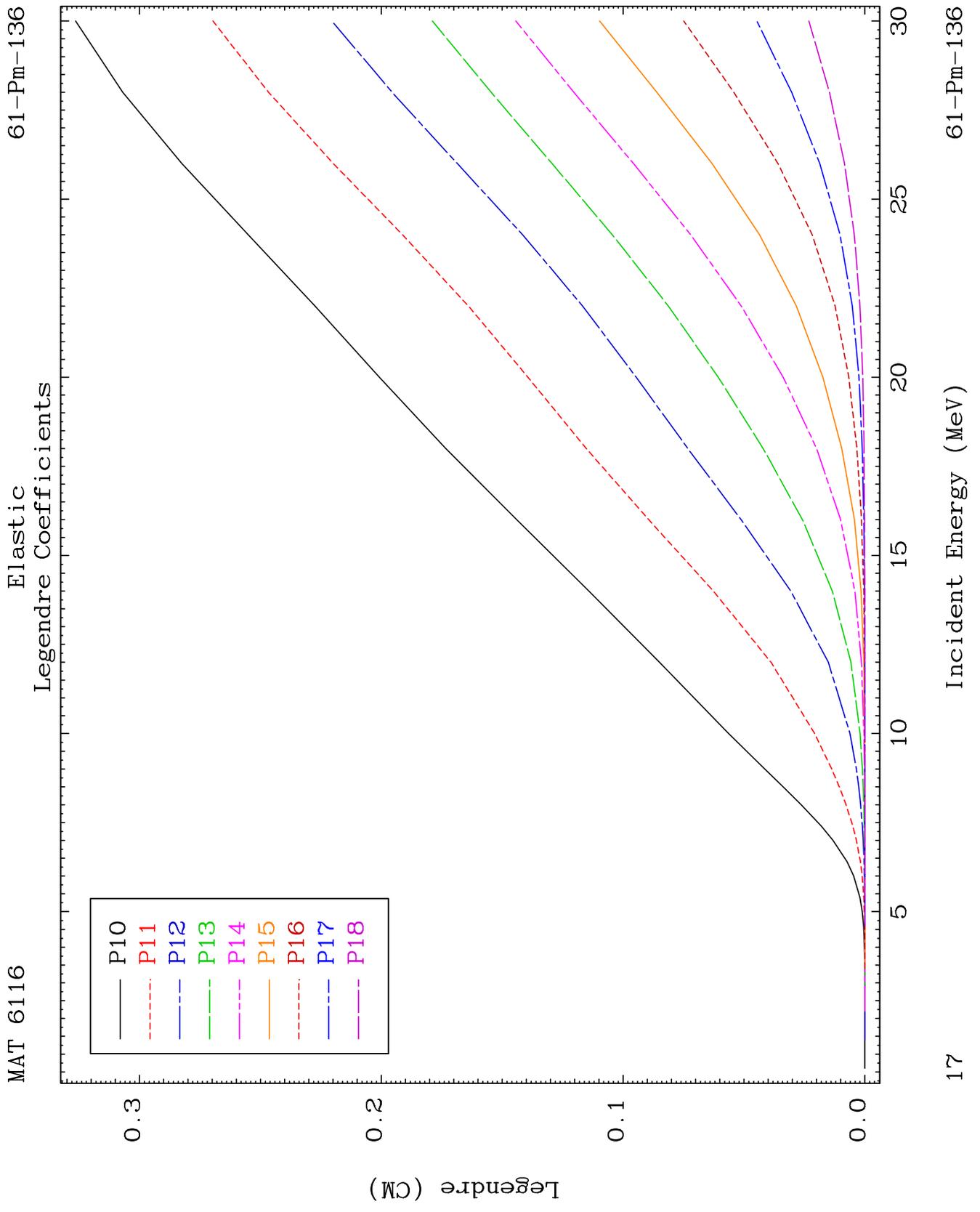
14

Incident Energy (MeV)

61-Pm-136



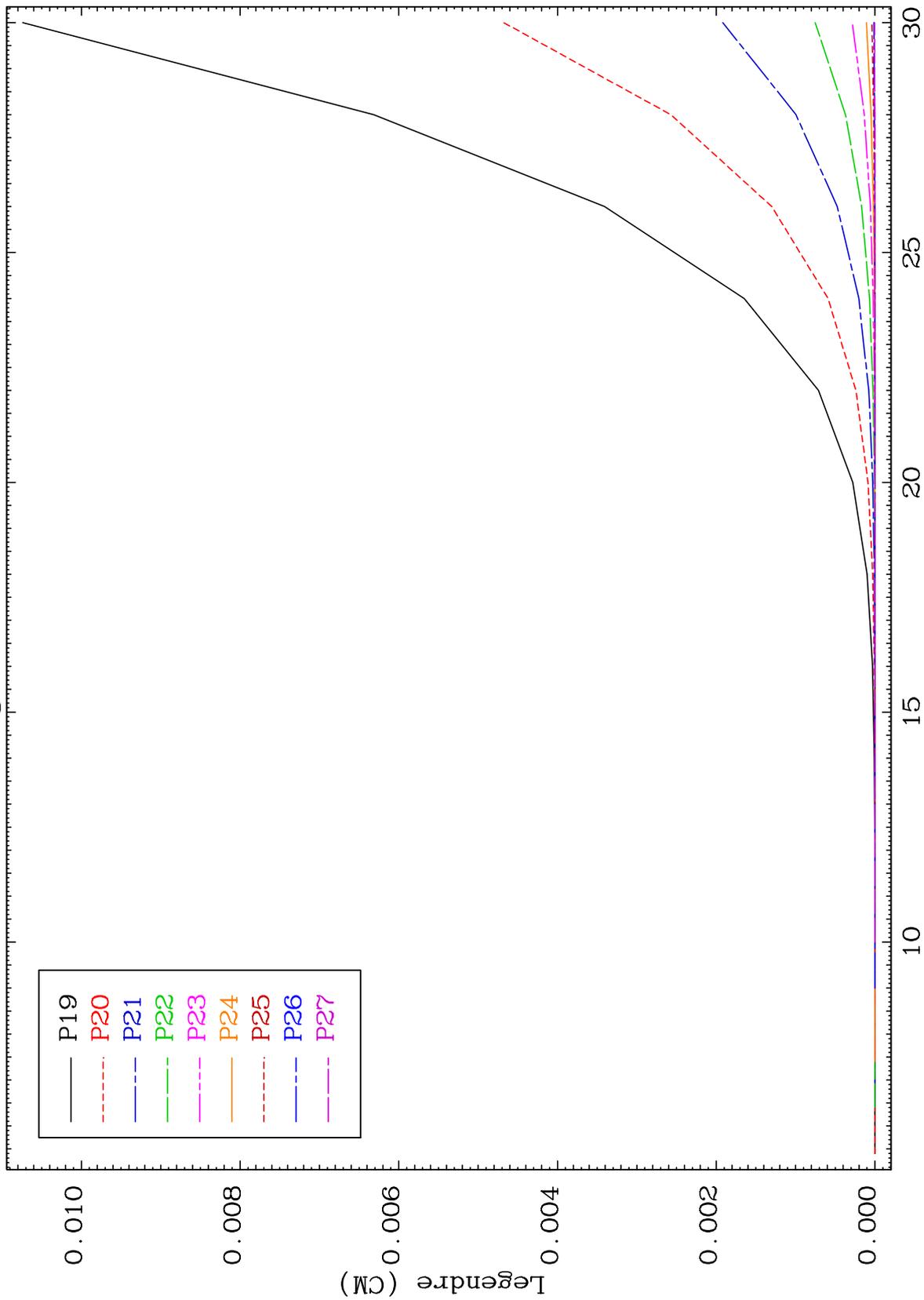




MAT 6116

Elastic Legendre Coefficients

61-Pm-136



18

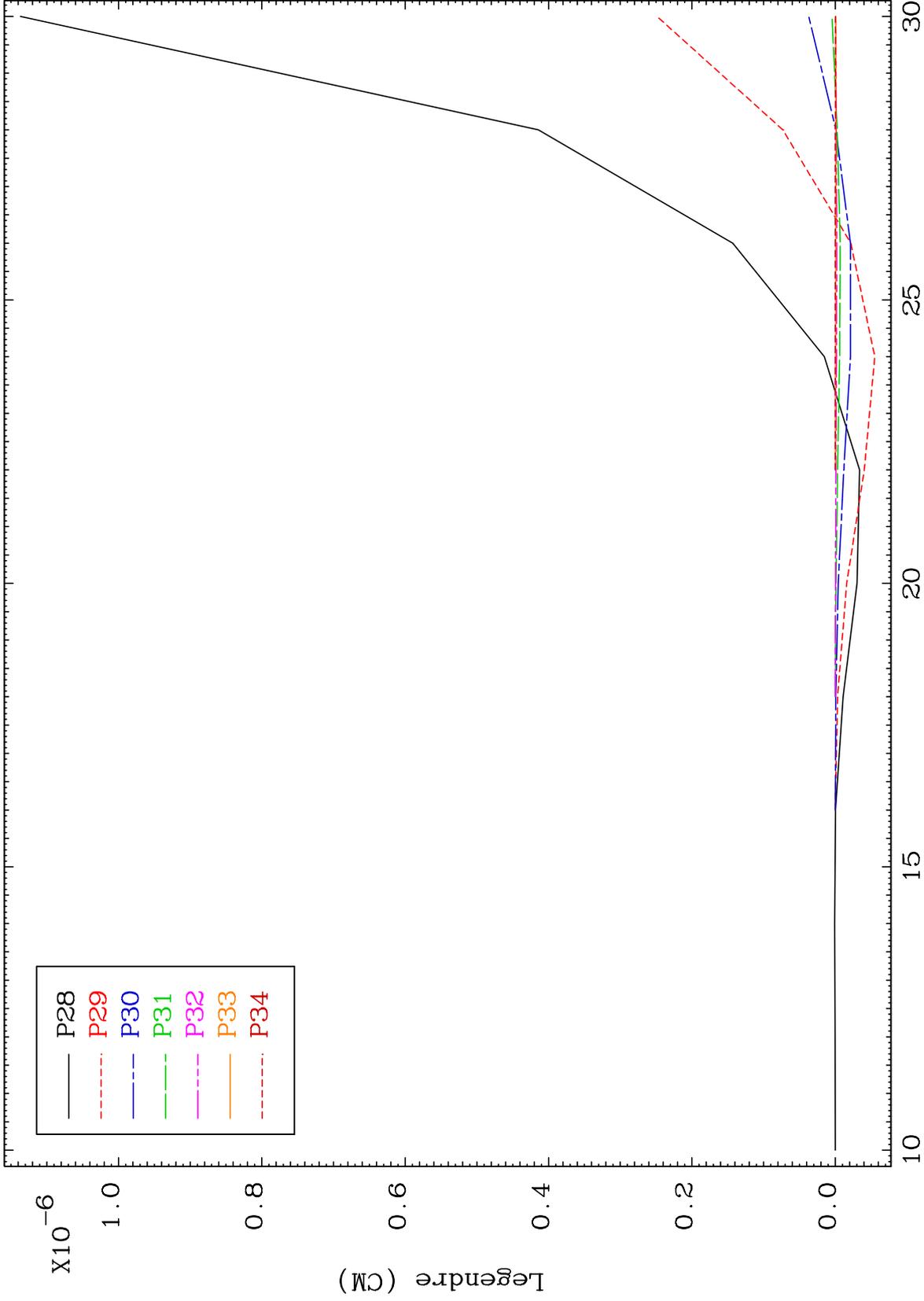
Incident Energy (MeV)

61-Pm-136

MAT 6116

Elastic
Legendre Coefficients

61-Pm-136



19

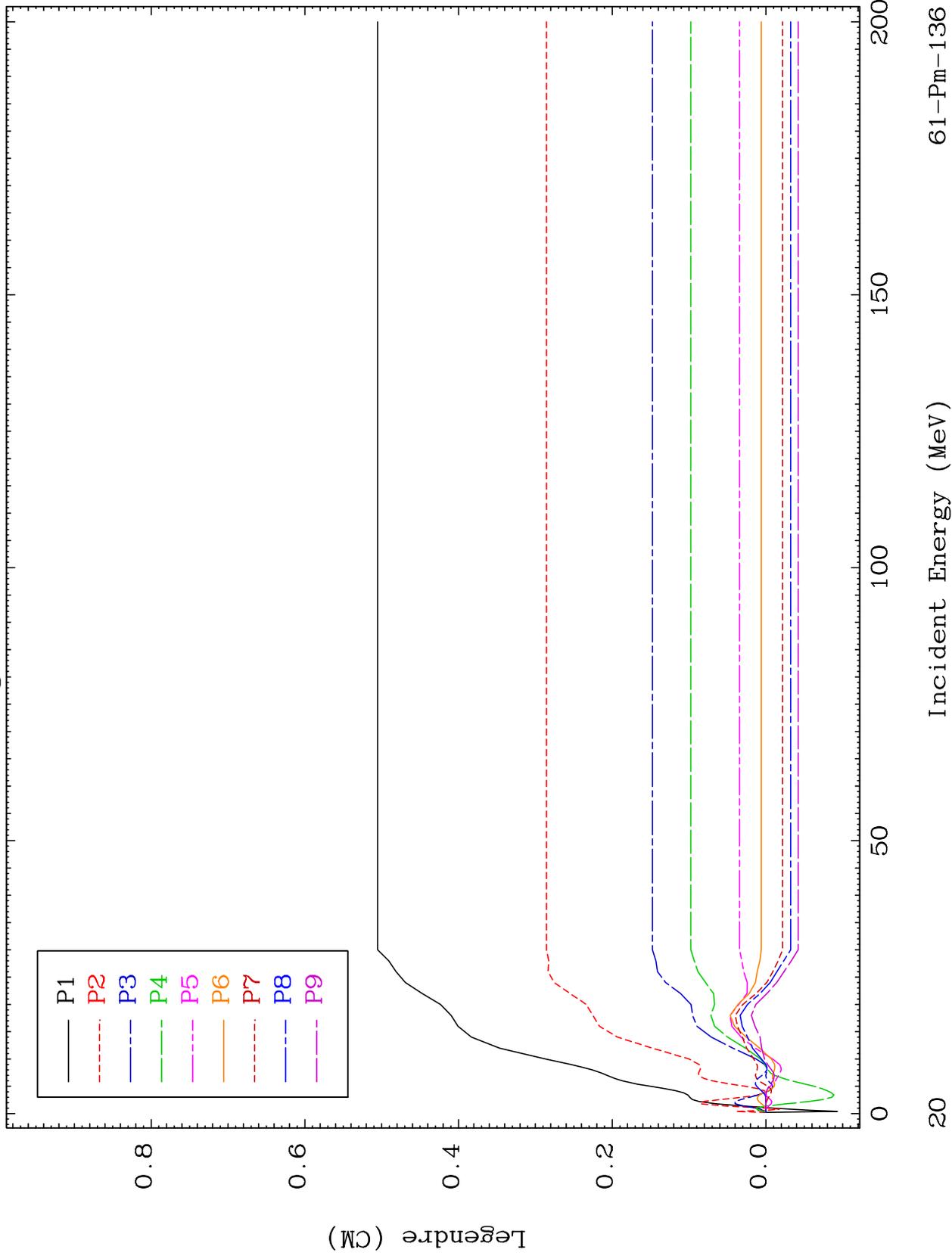
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

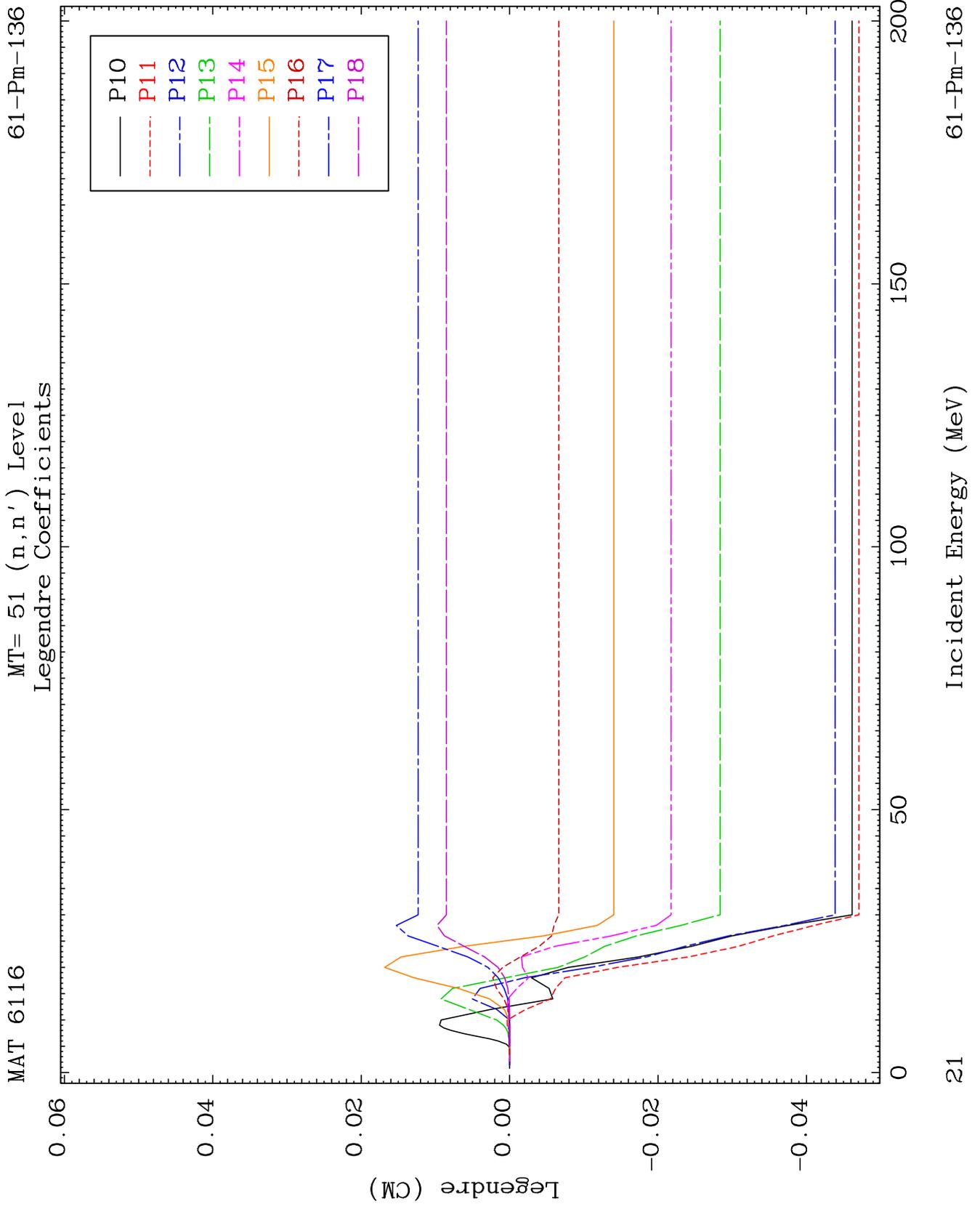
61-Pm-136



61-Pm-136

Incident Energy (MeV)

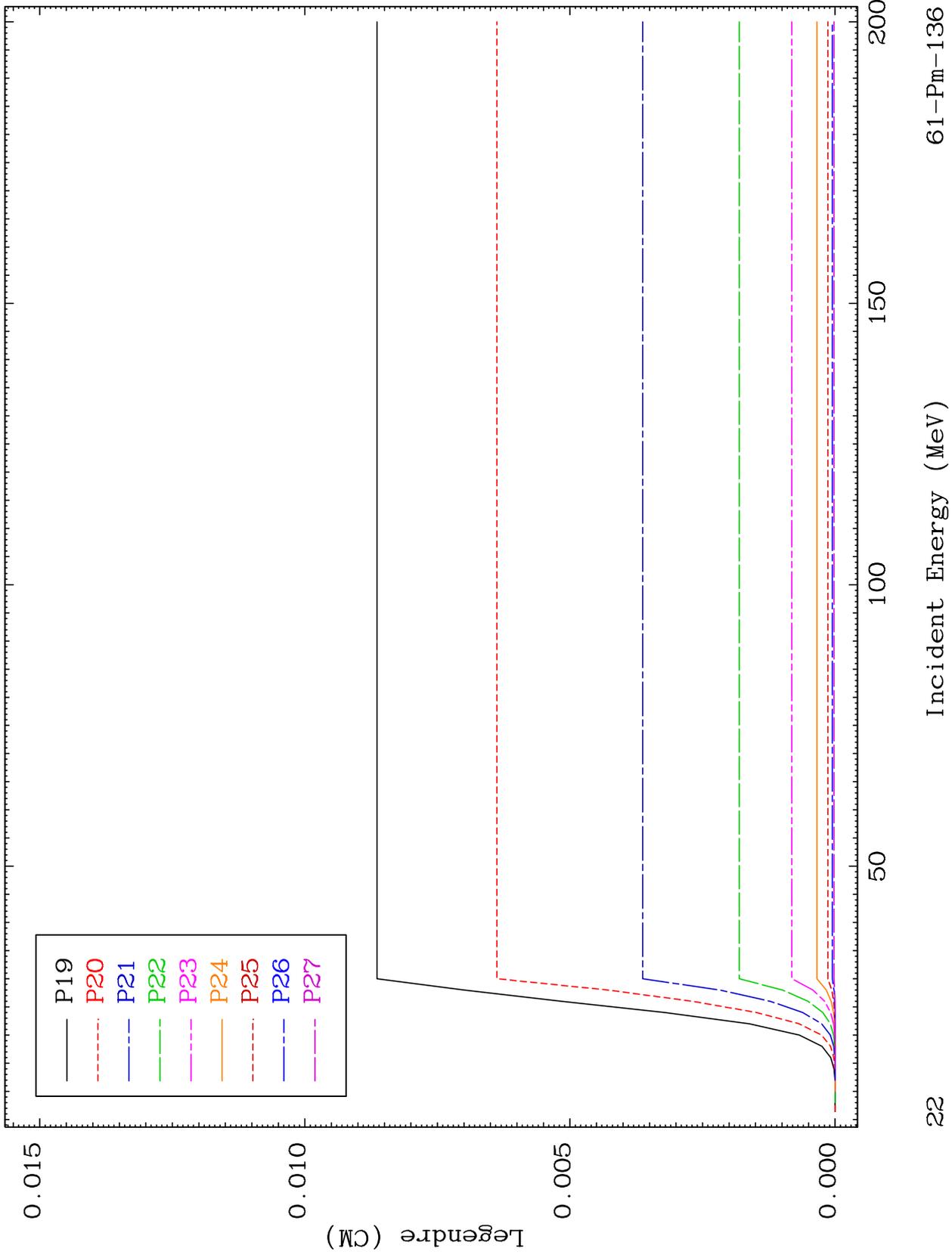
0



MAT 6116

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

61-Pm-136



22

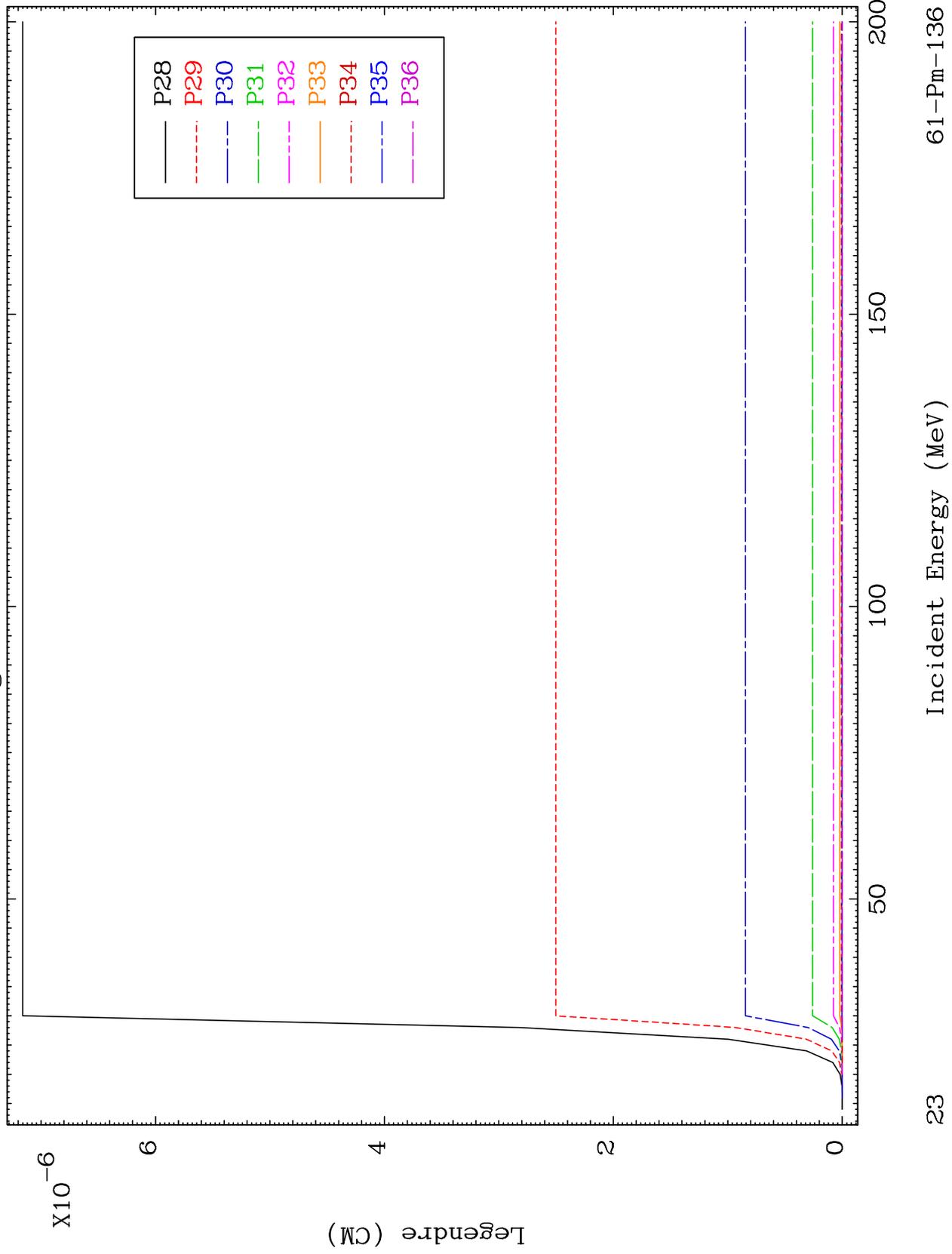
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



23

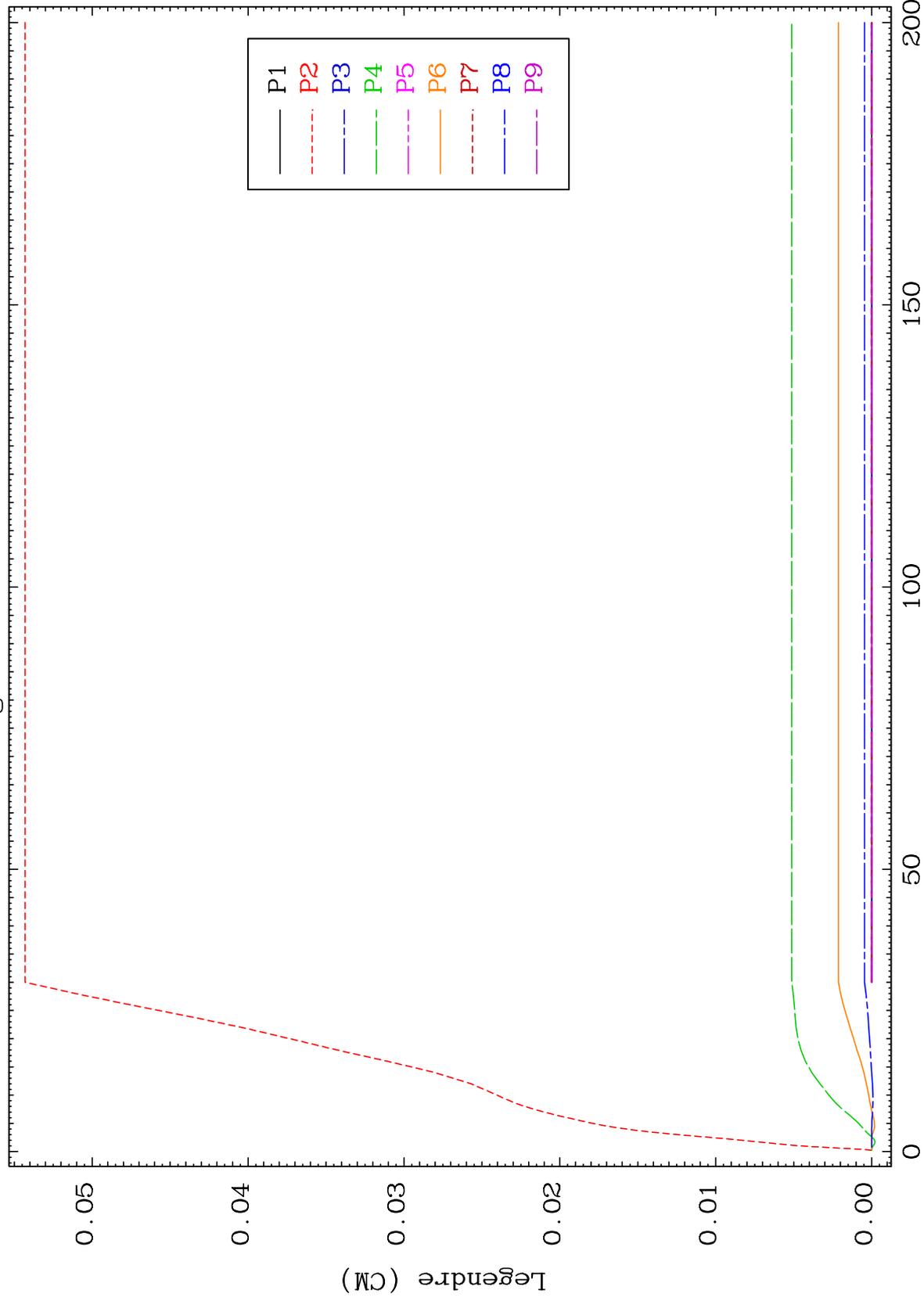
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

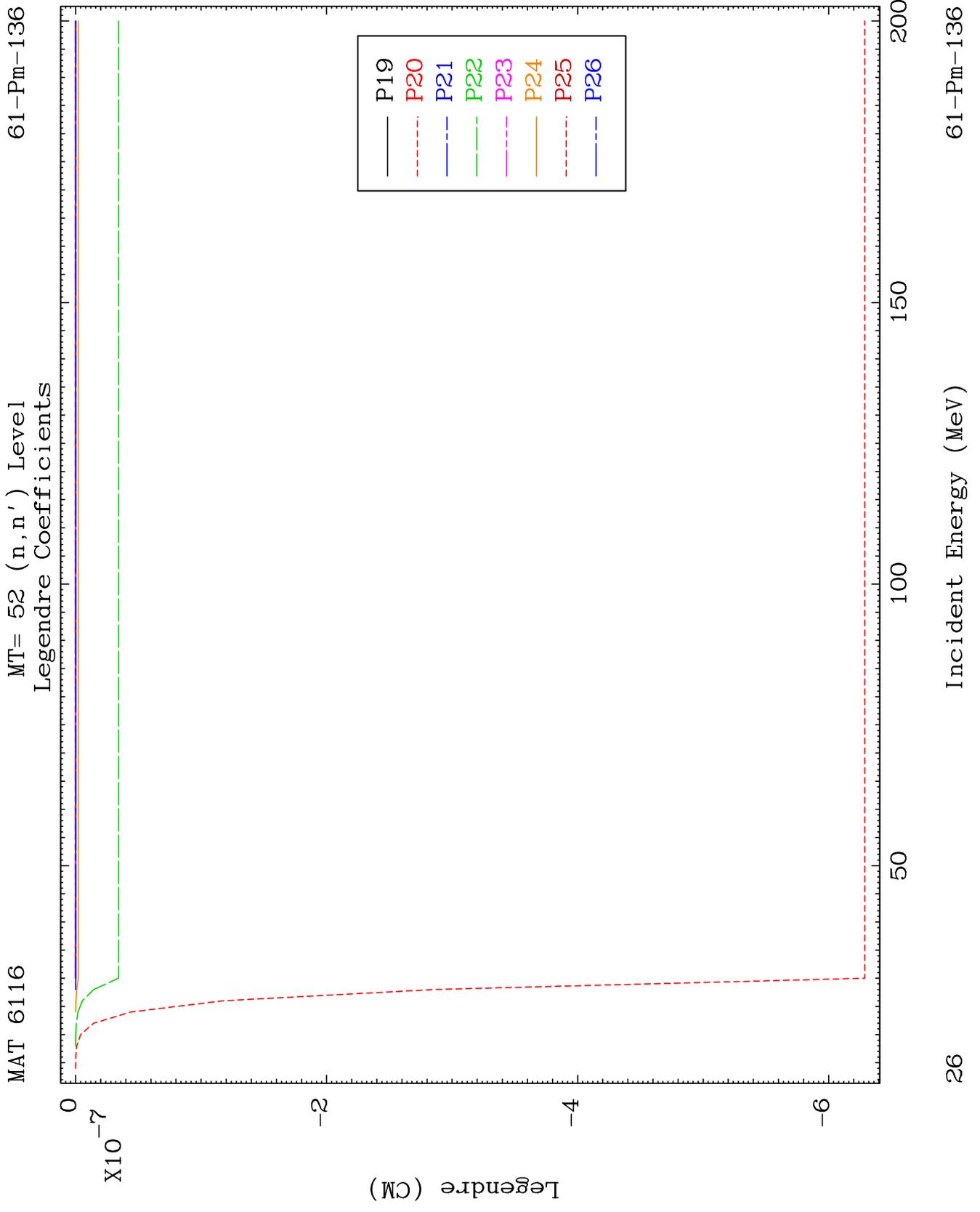
61-Pm-136



24

Incident Energy (MeV)

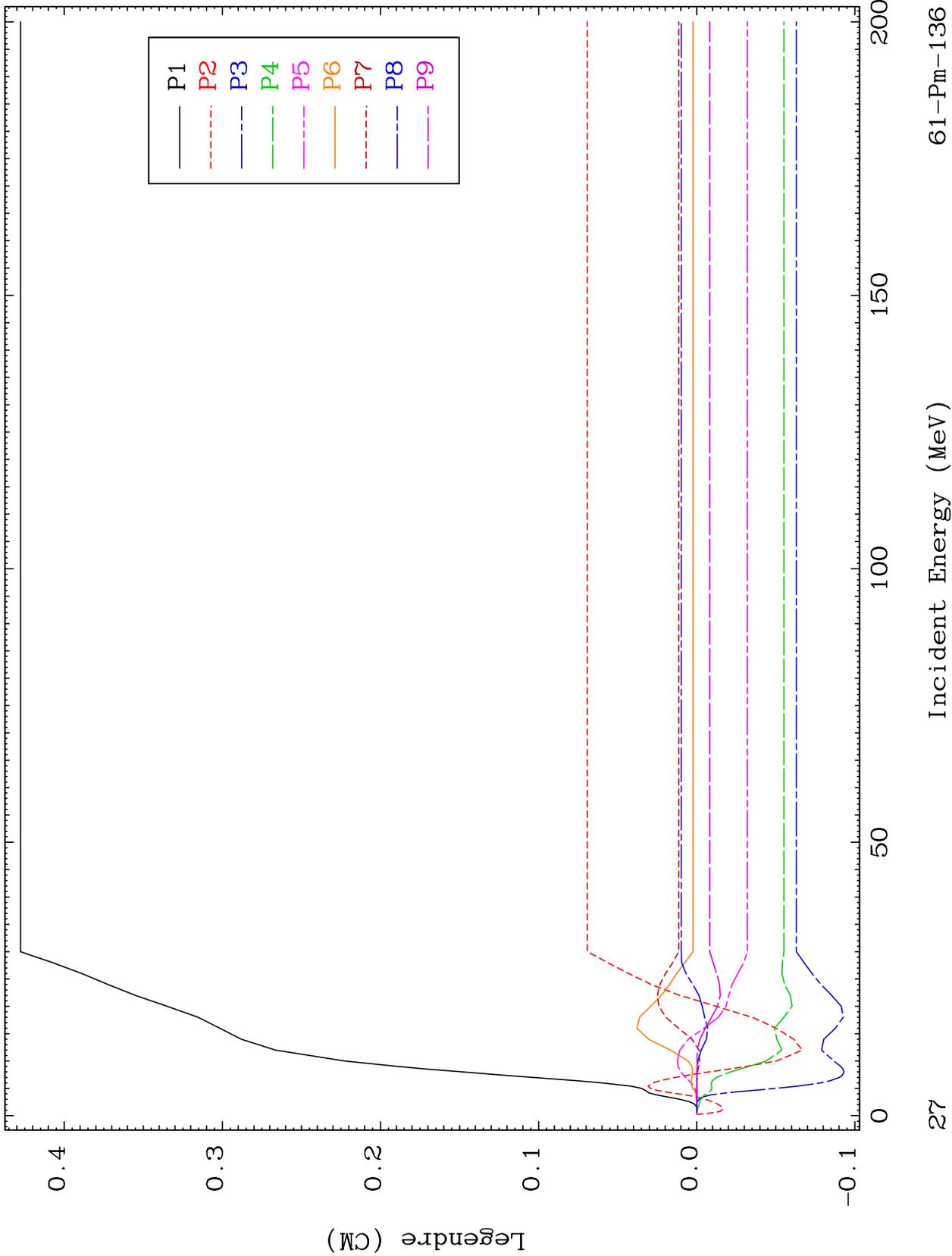
61-Pm-136



MAT 6116

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

61-Pm-136



61-Pm-136

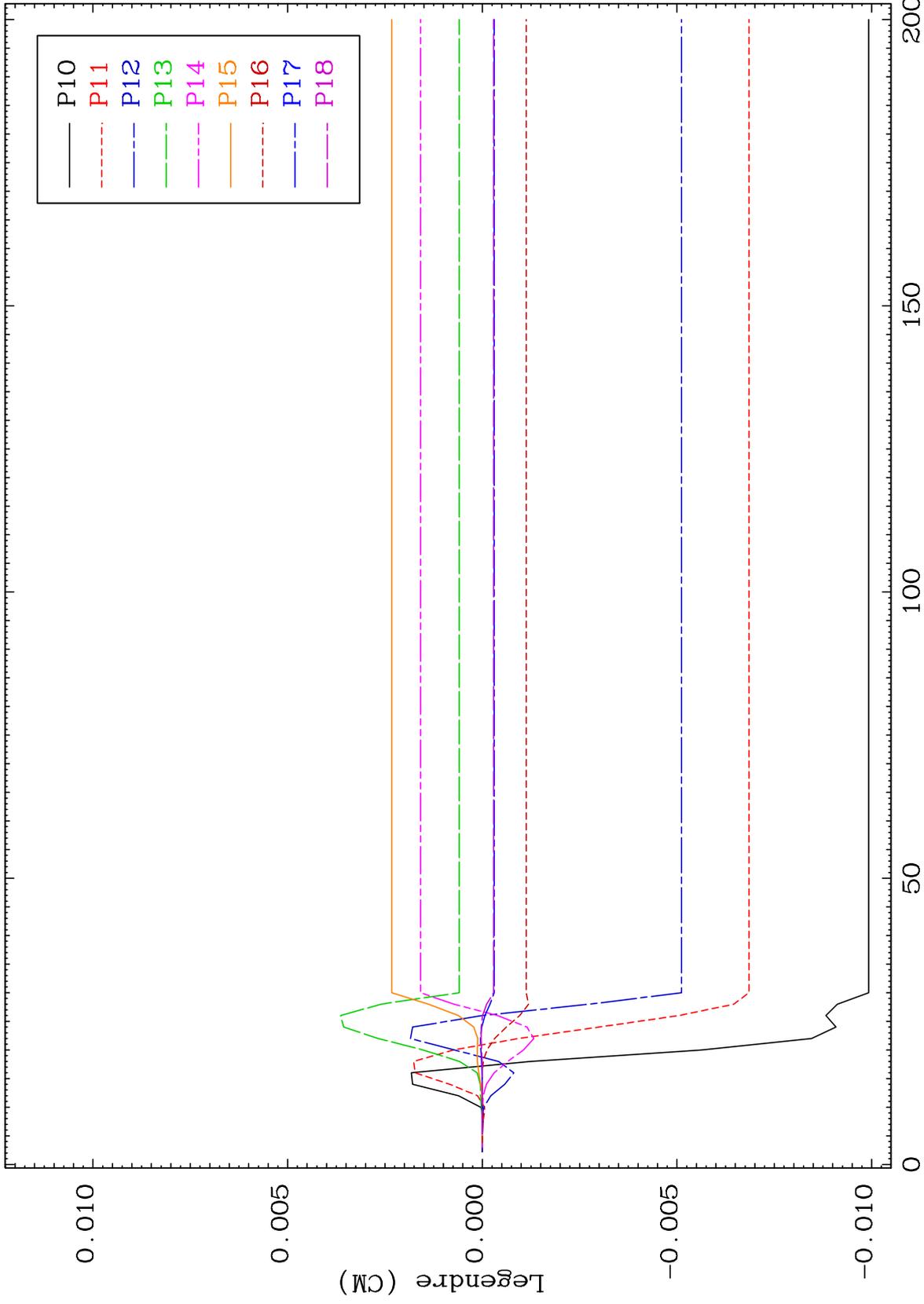
Incident Energy (MeV)

27

MAT 6116

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

61-Pm-136



28

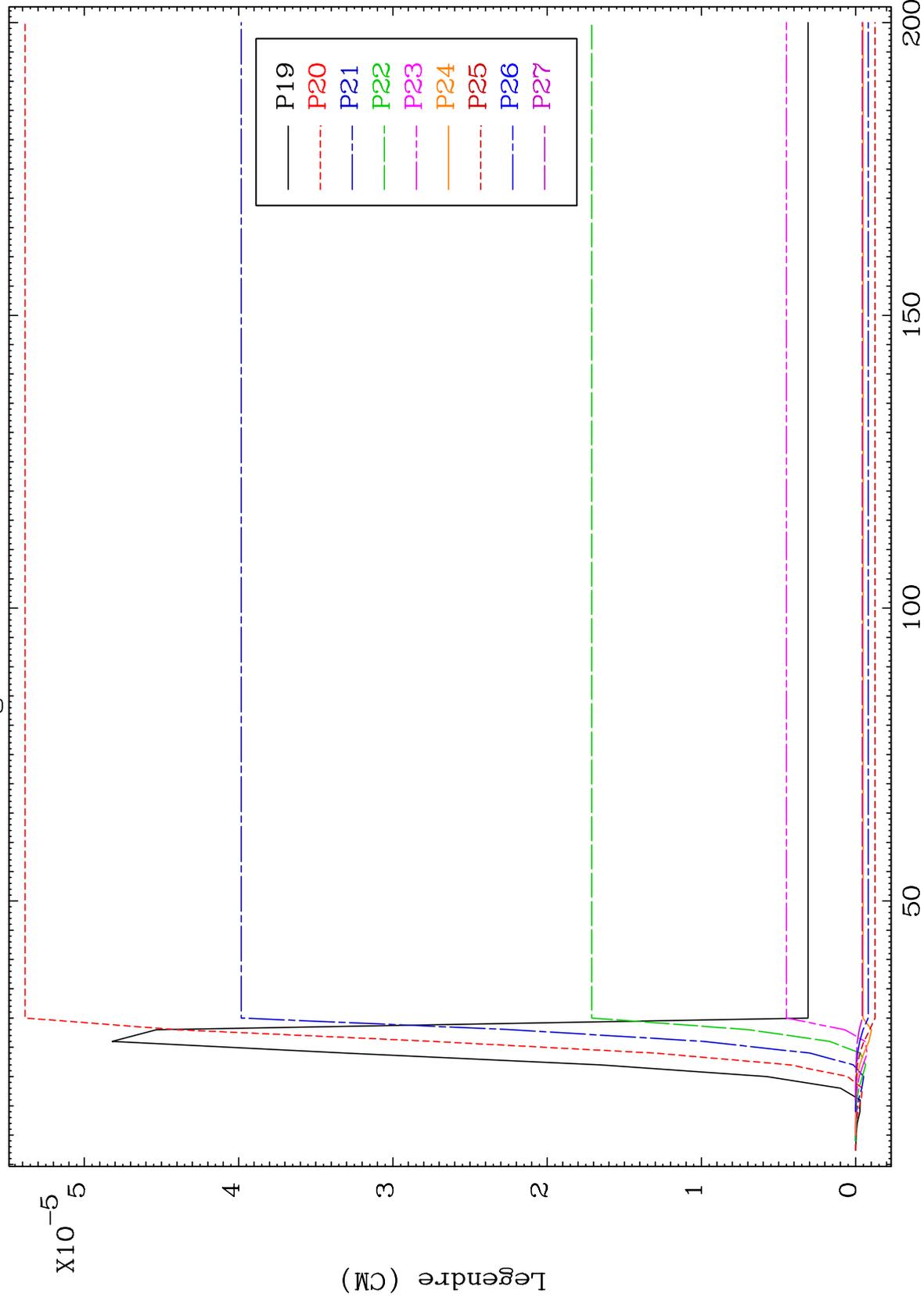
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136

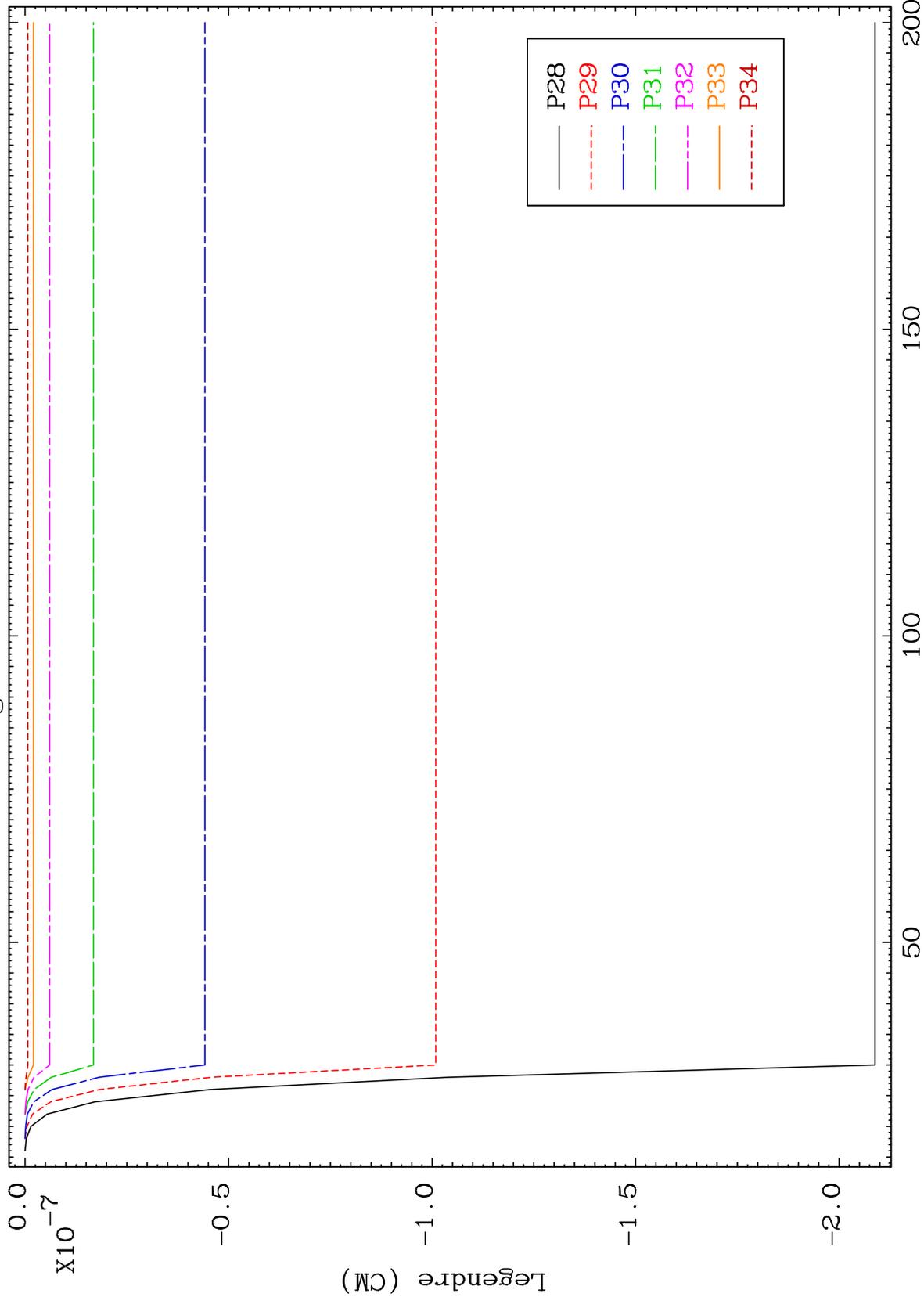


MAT 6116

MT= 53 (n,n') Level

61-Pm-136

Legendre Coefficients



61-Pm-136

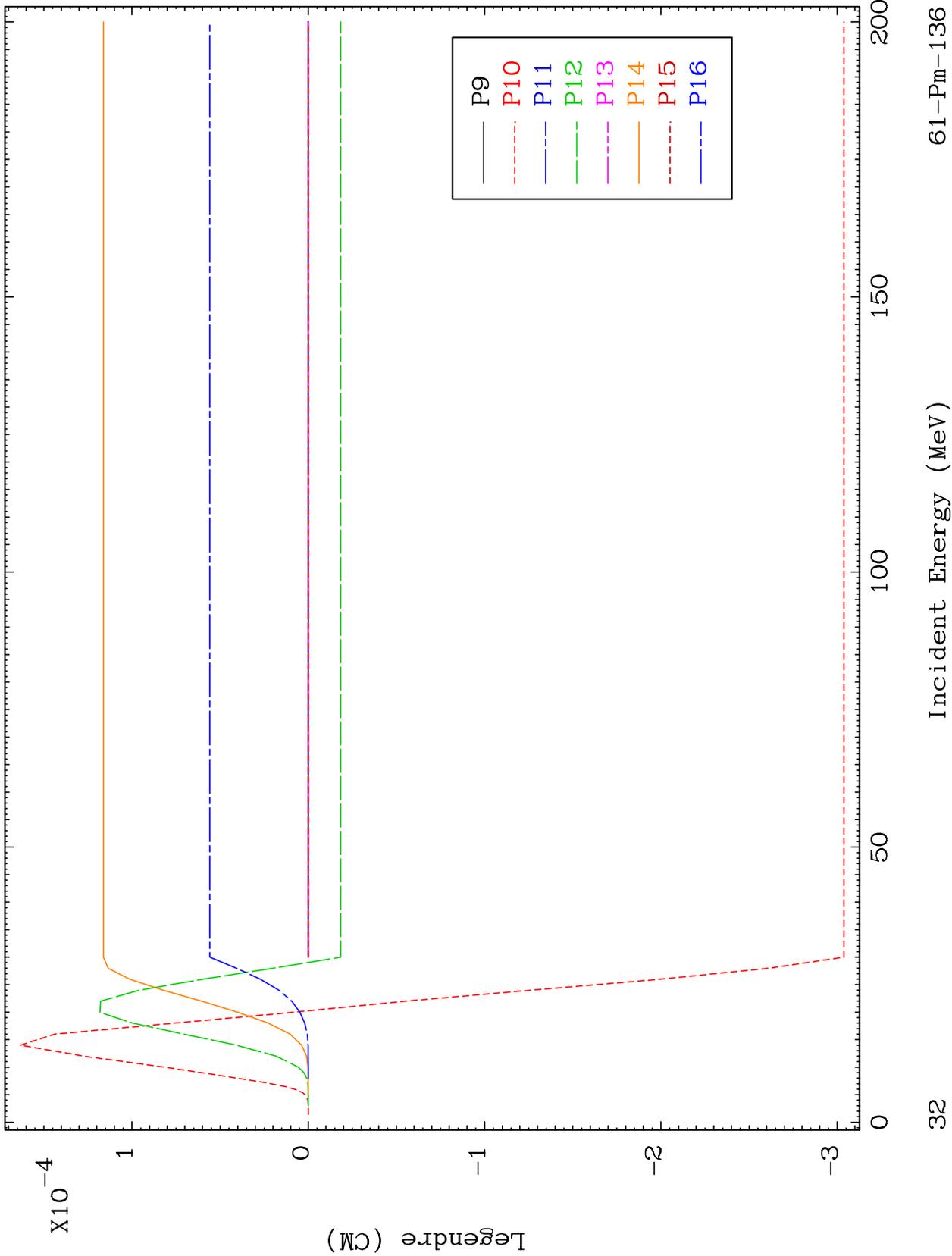
Incident Energy (MeV)

30

MAT 6116

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

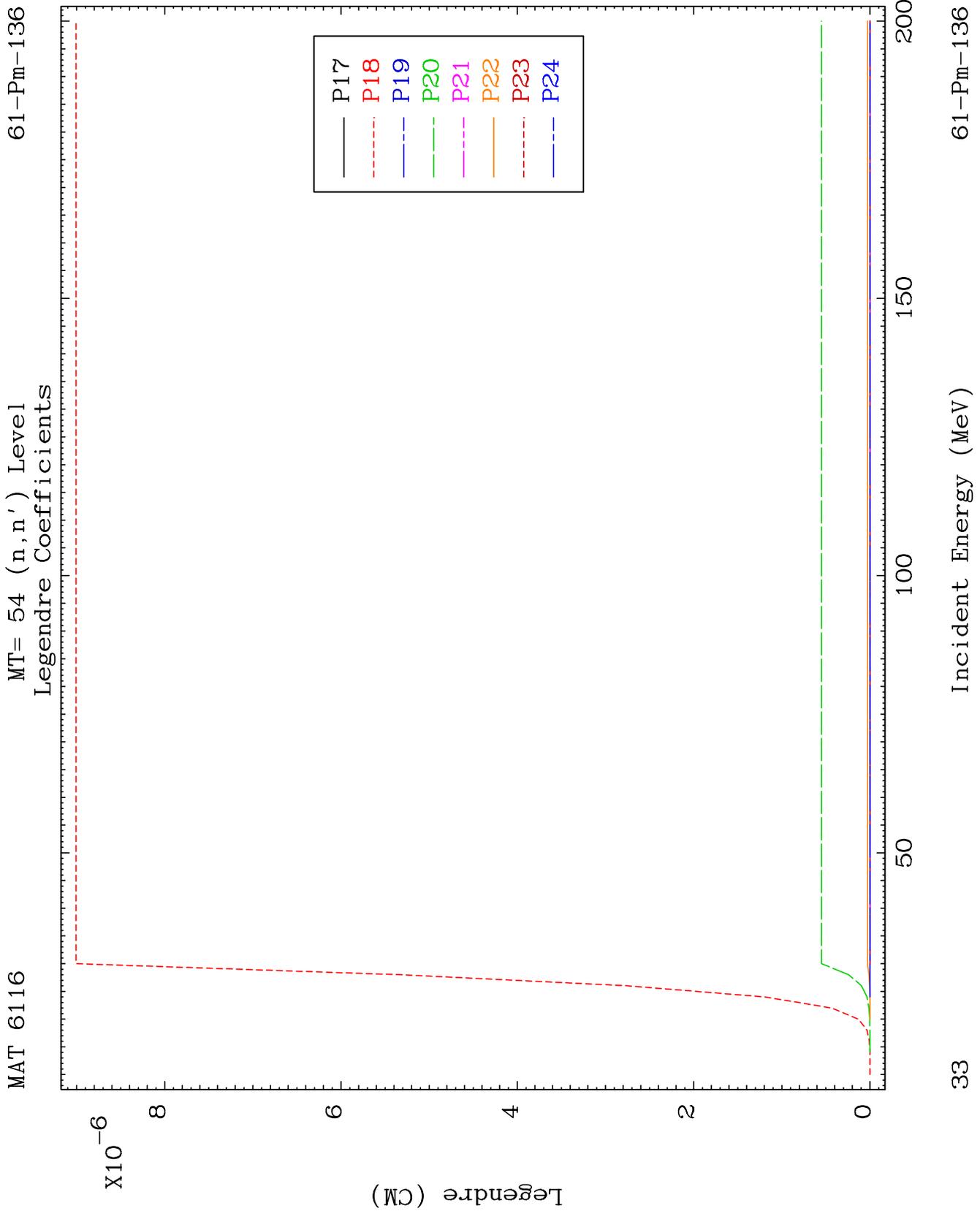
61-Pm-136



61-Pm-136

Incident Energy (MeV)

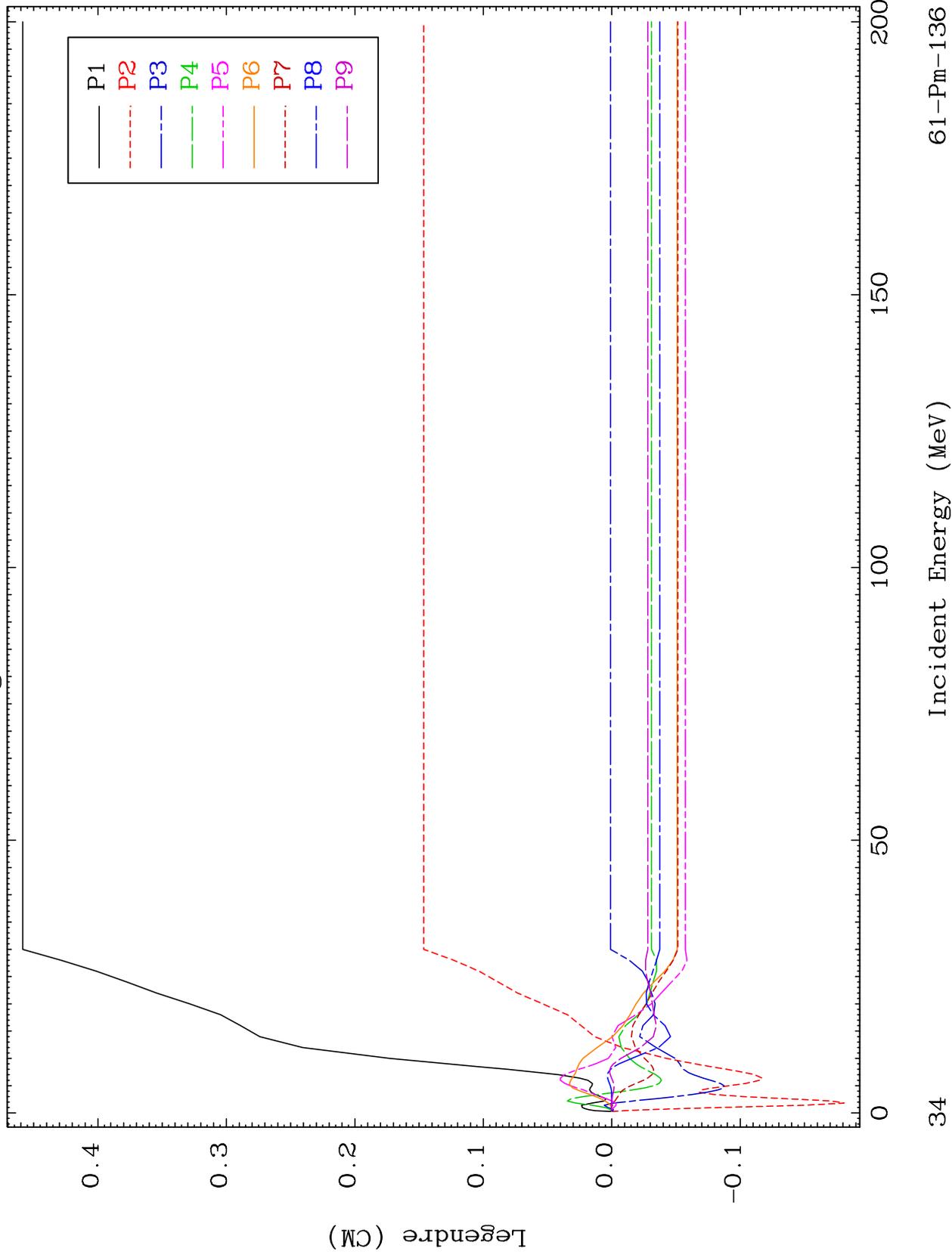
32



MAT 6116

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

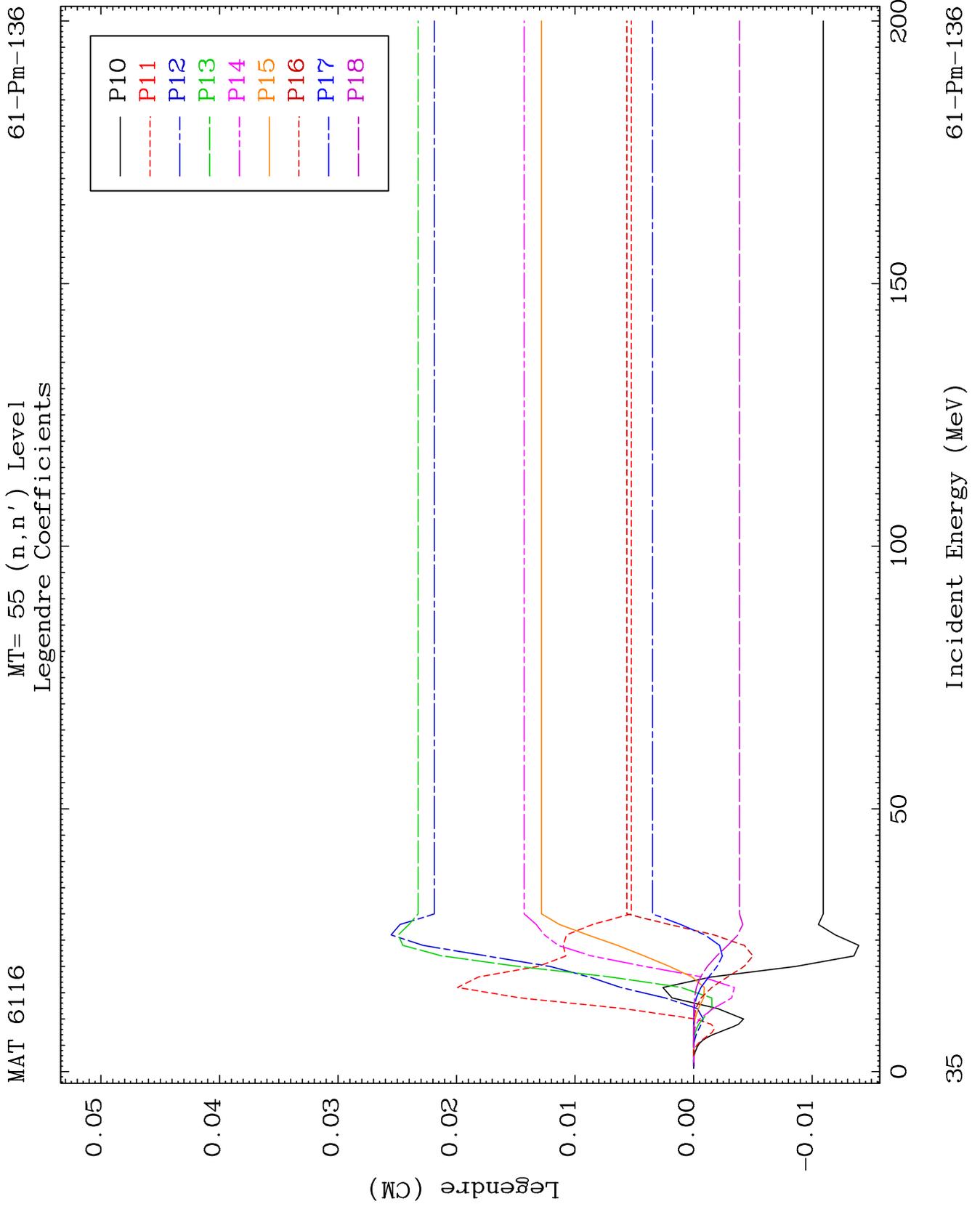
61-Pm-136



61-Pm-136

Incident Energy (MeV)

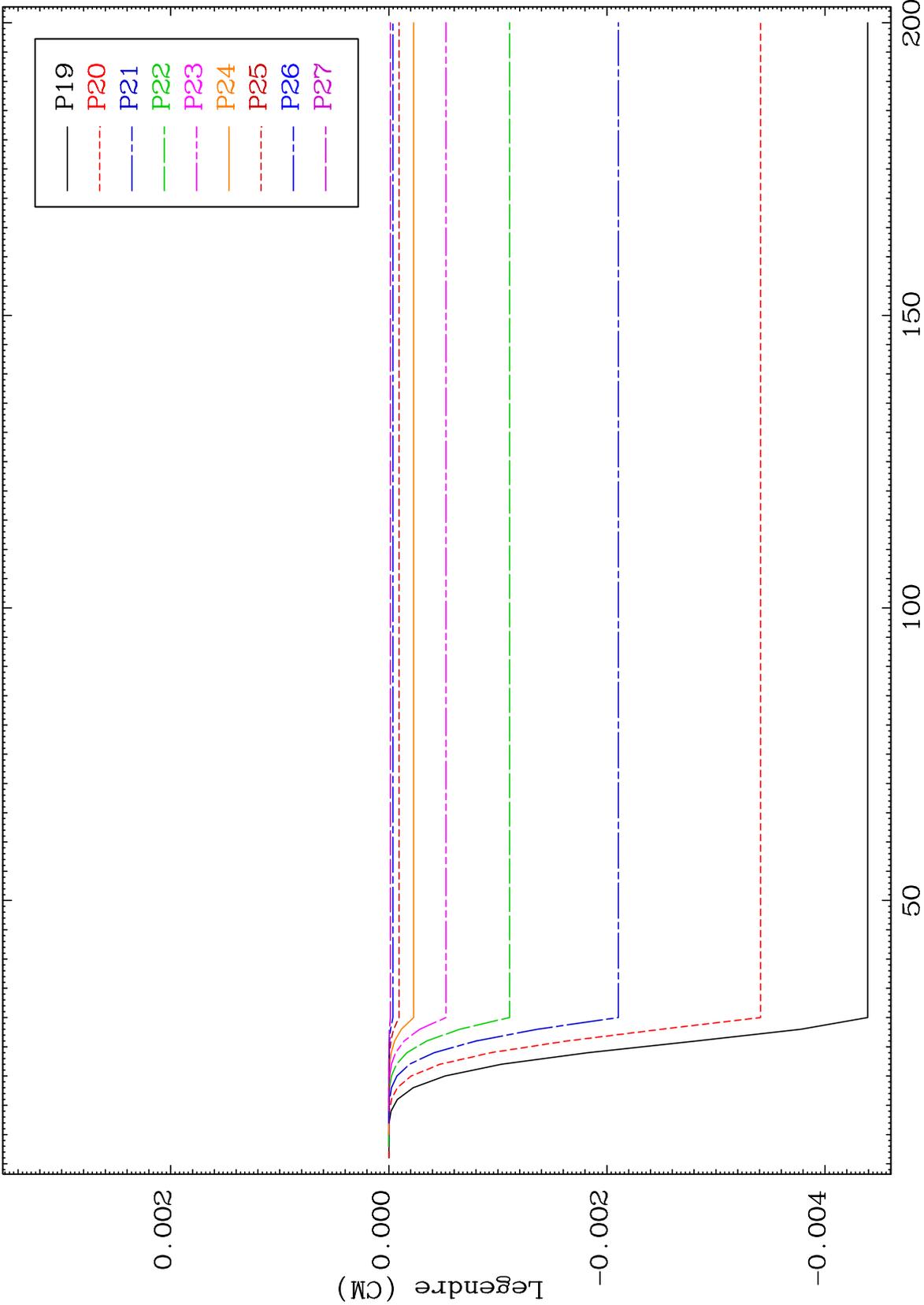
34



MAT 6116

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

61-Pm-136



36

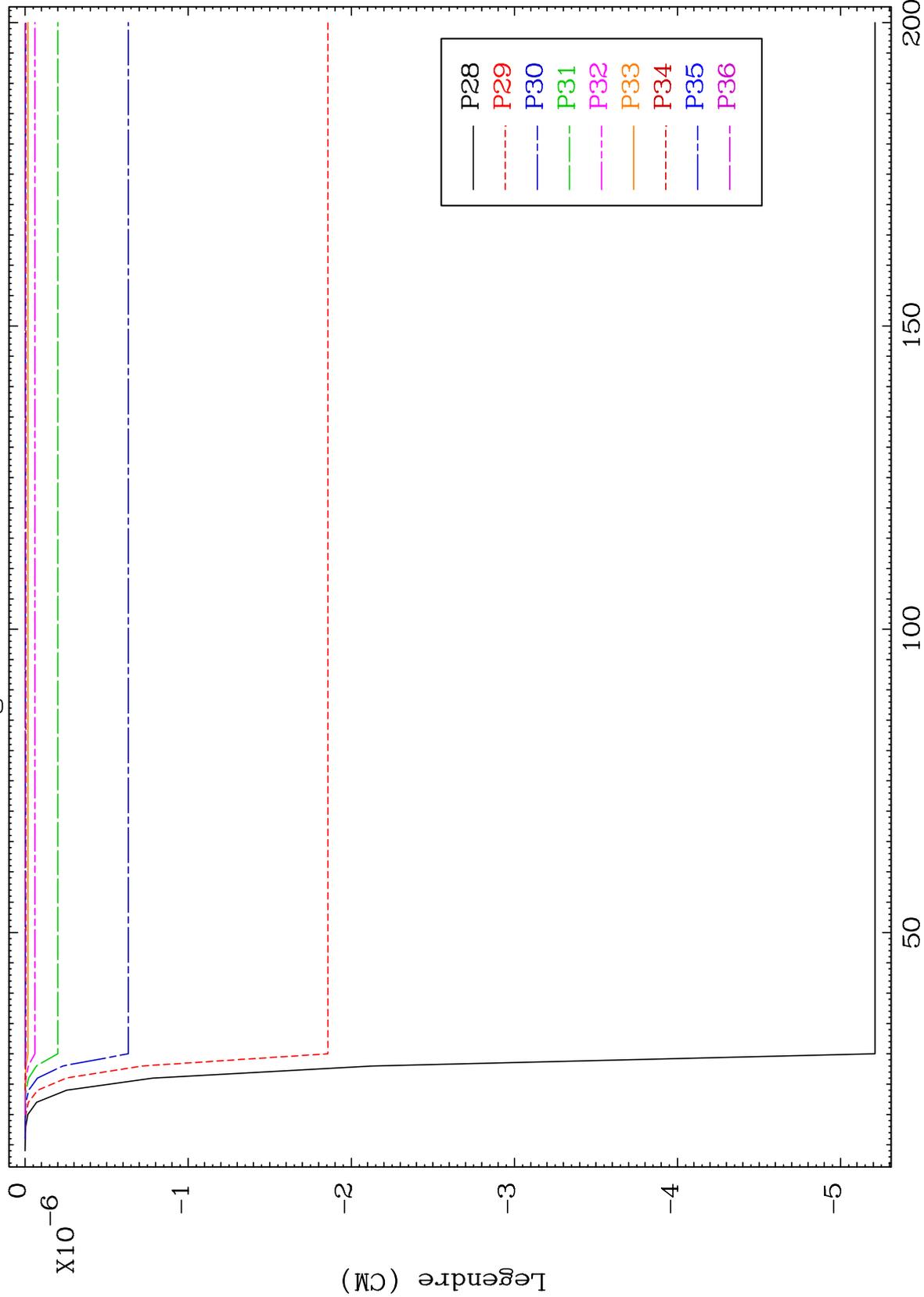
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



37

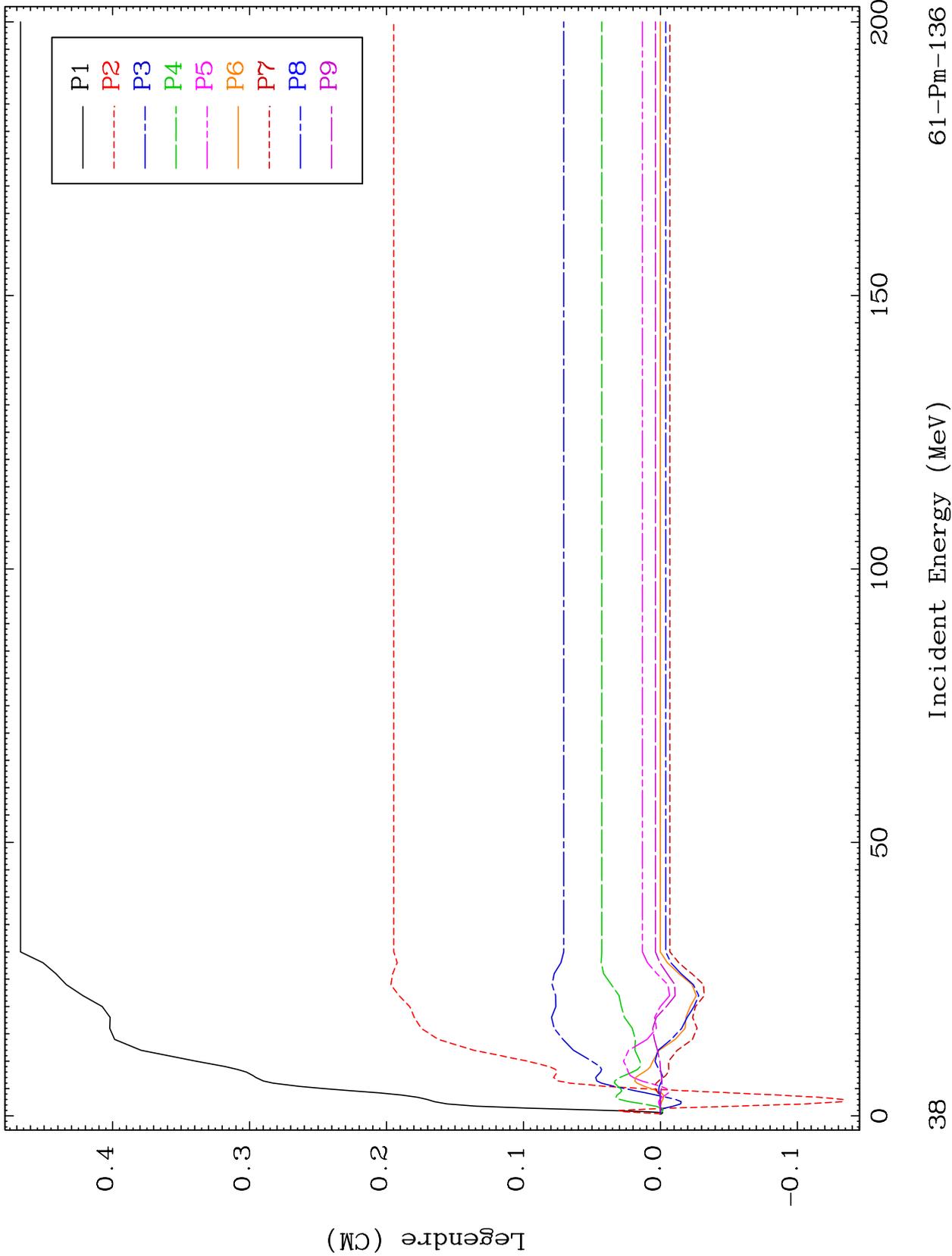
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

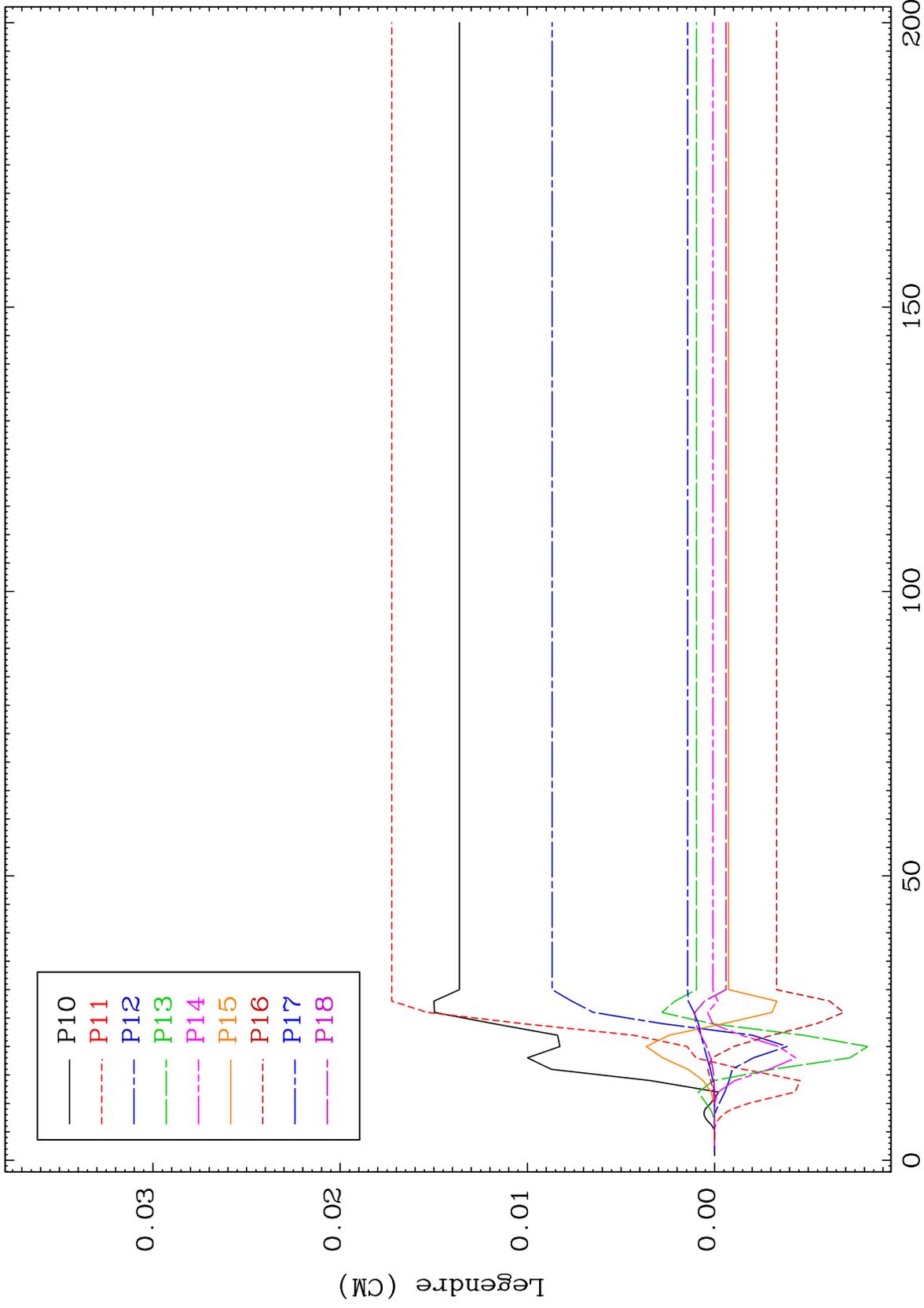
61-Pm-136



MAT 6116

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

61-Pm-136



39

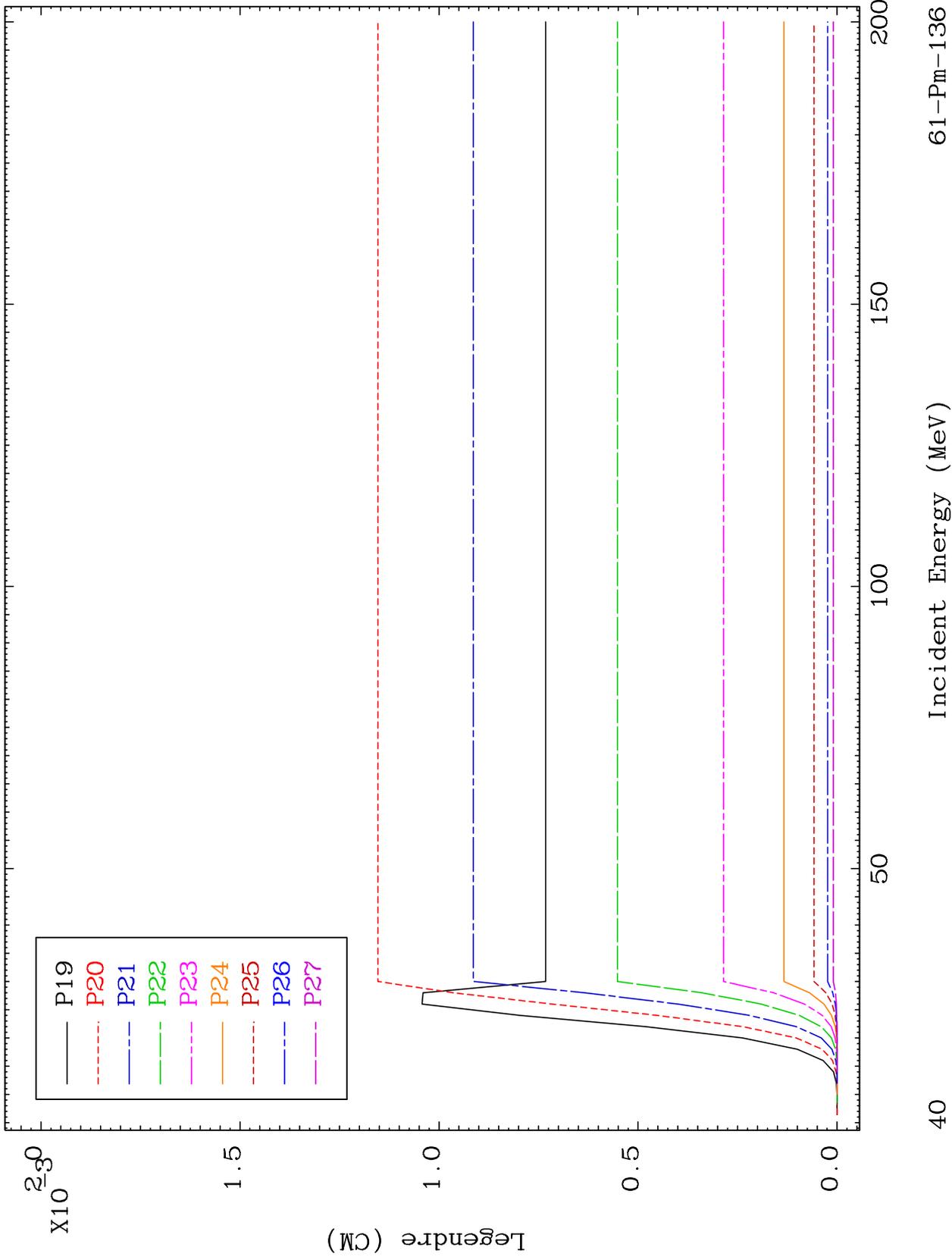
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

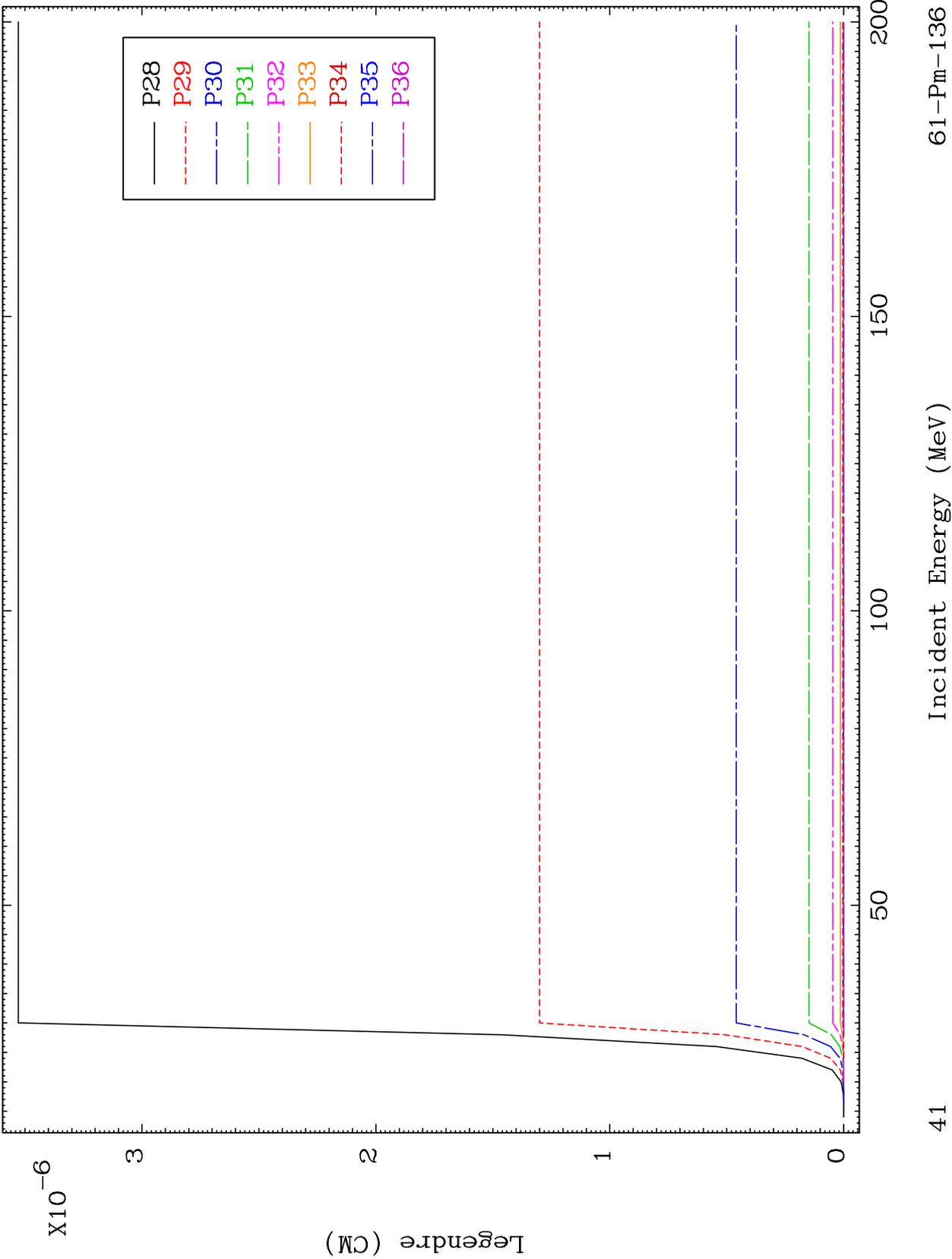
61-Pm-136



MAT 6116

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

61-Pm-136



41

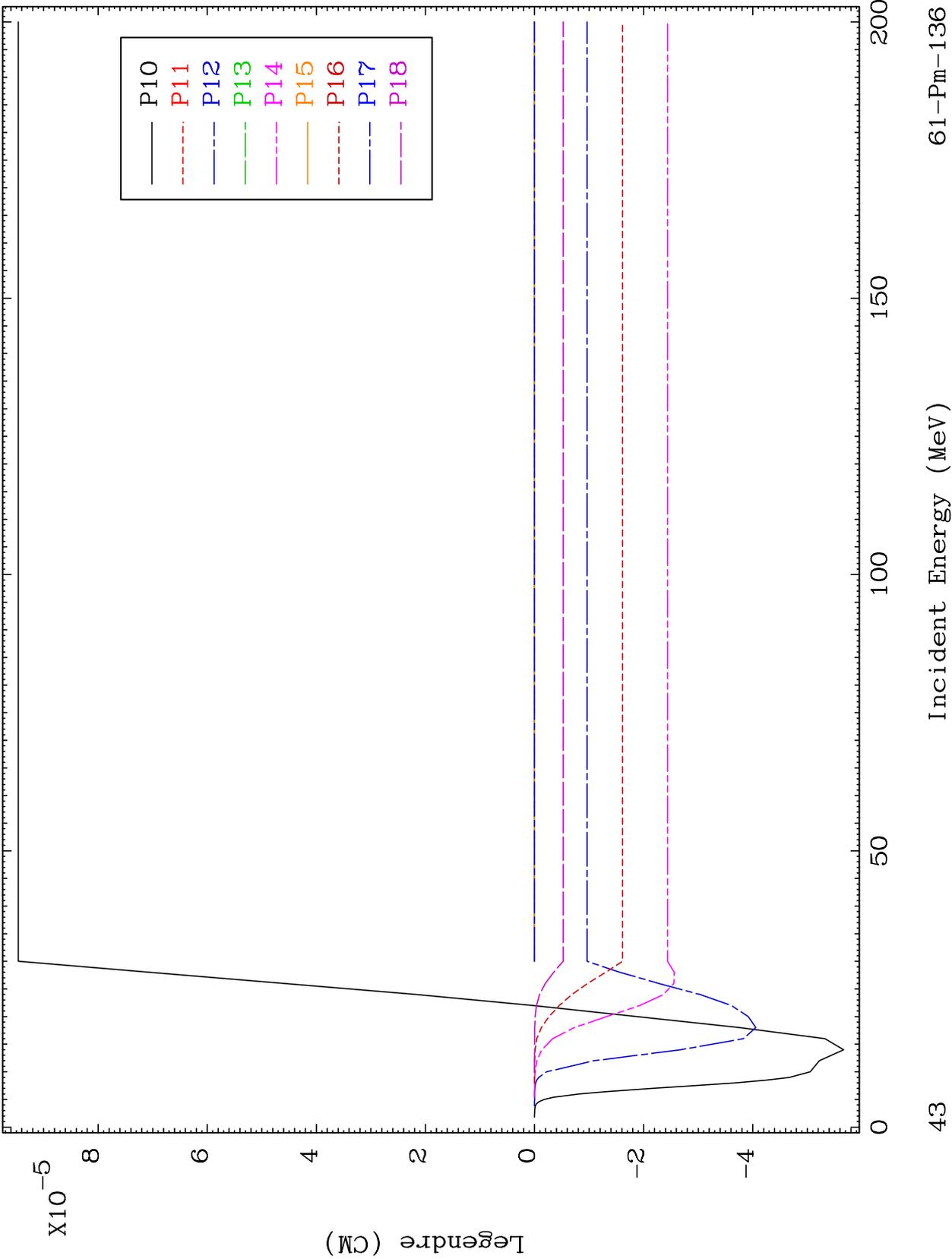
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

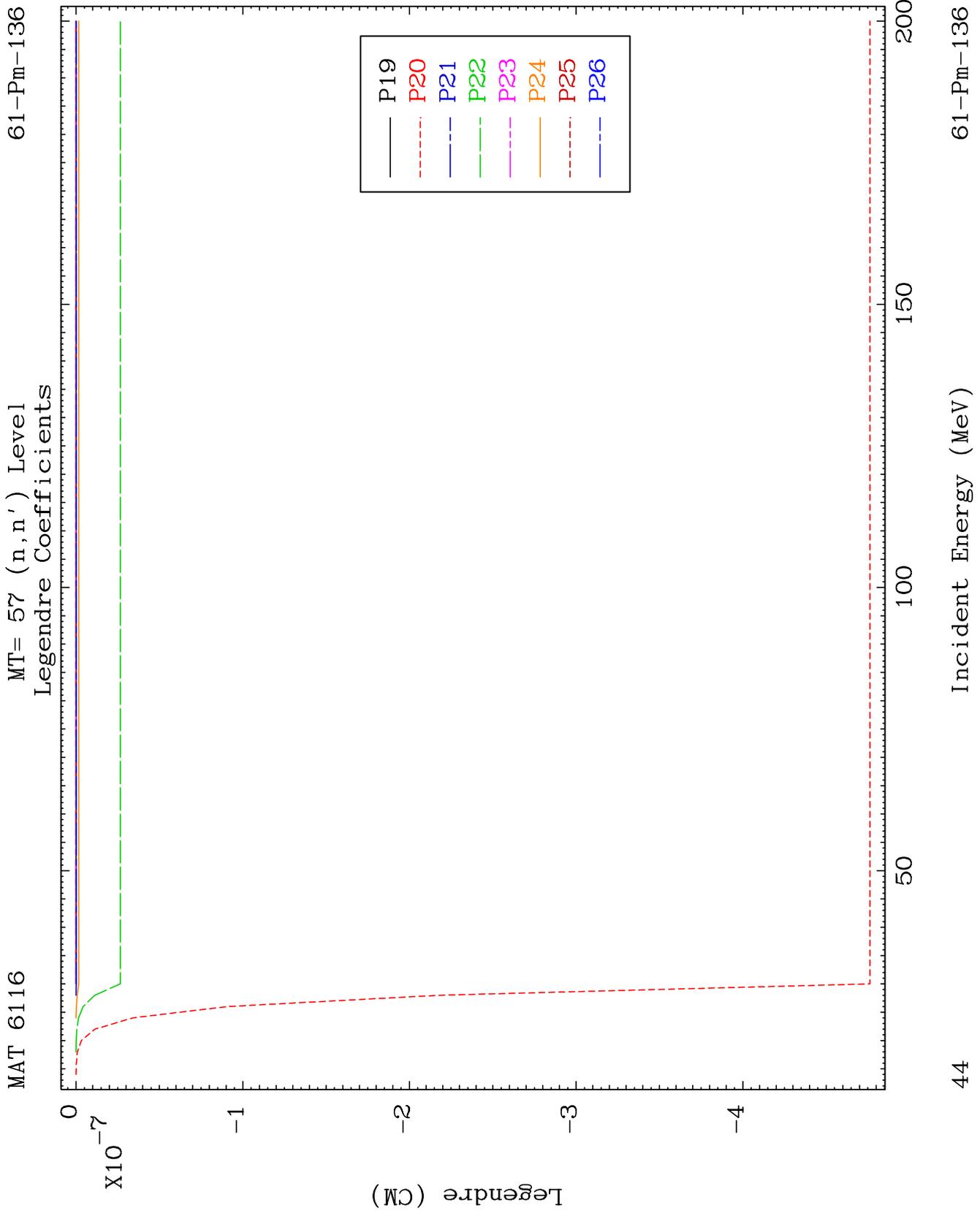
61-Pm-136



43

Incident Energy (MeV)

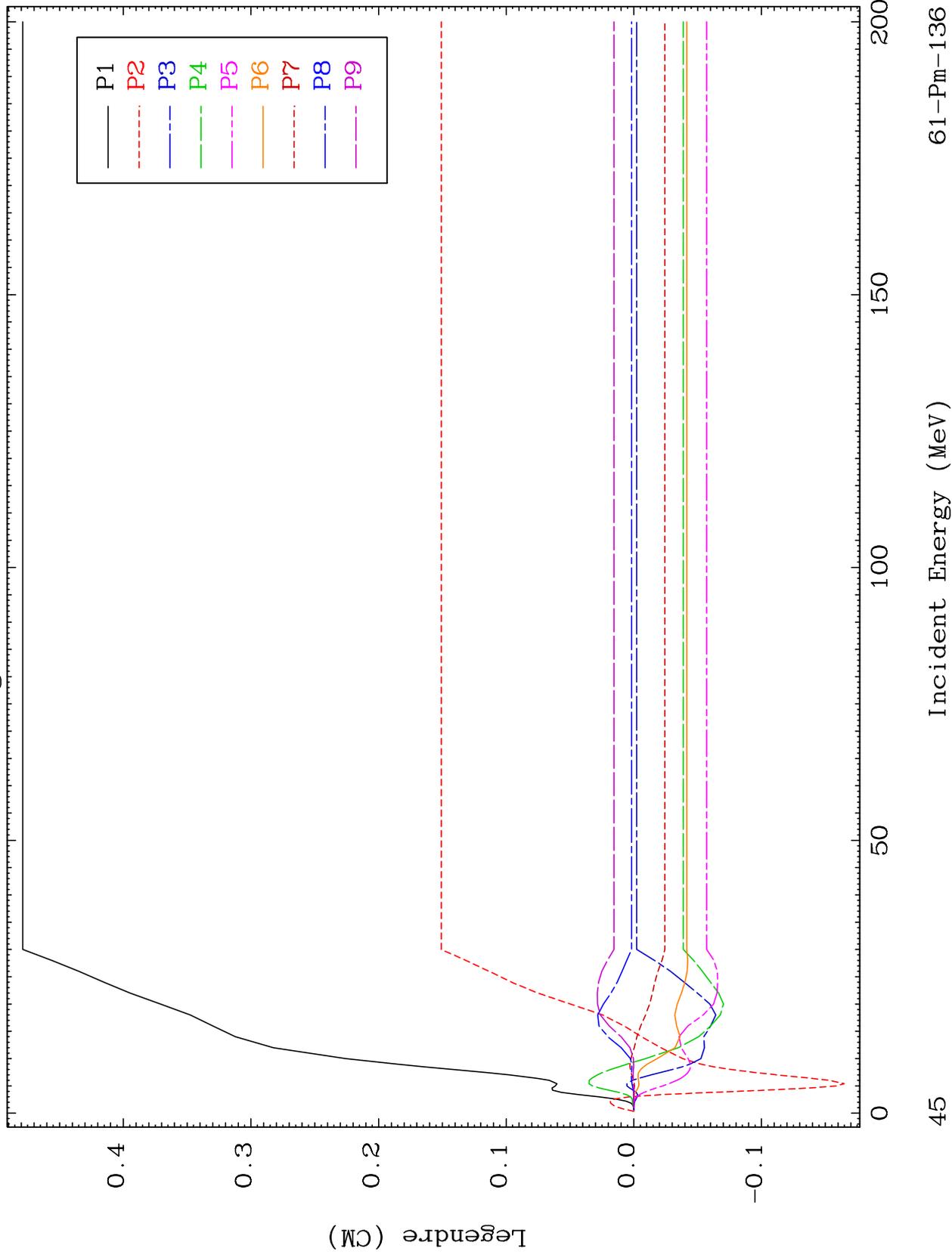
61-Pm-136



MAT 6116

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

61-Pm-136



61-Pm-136

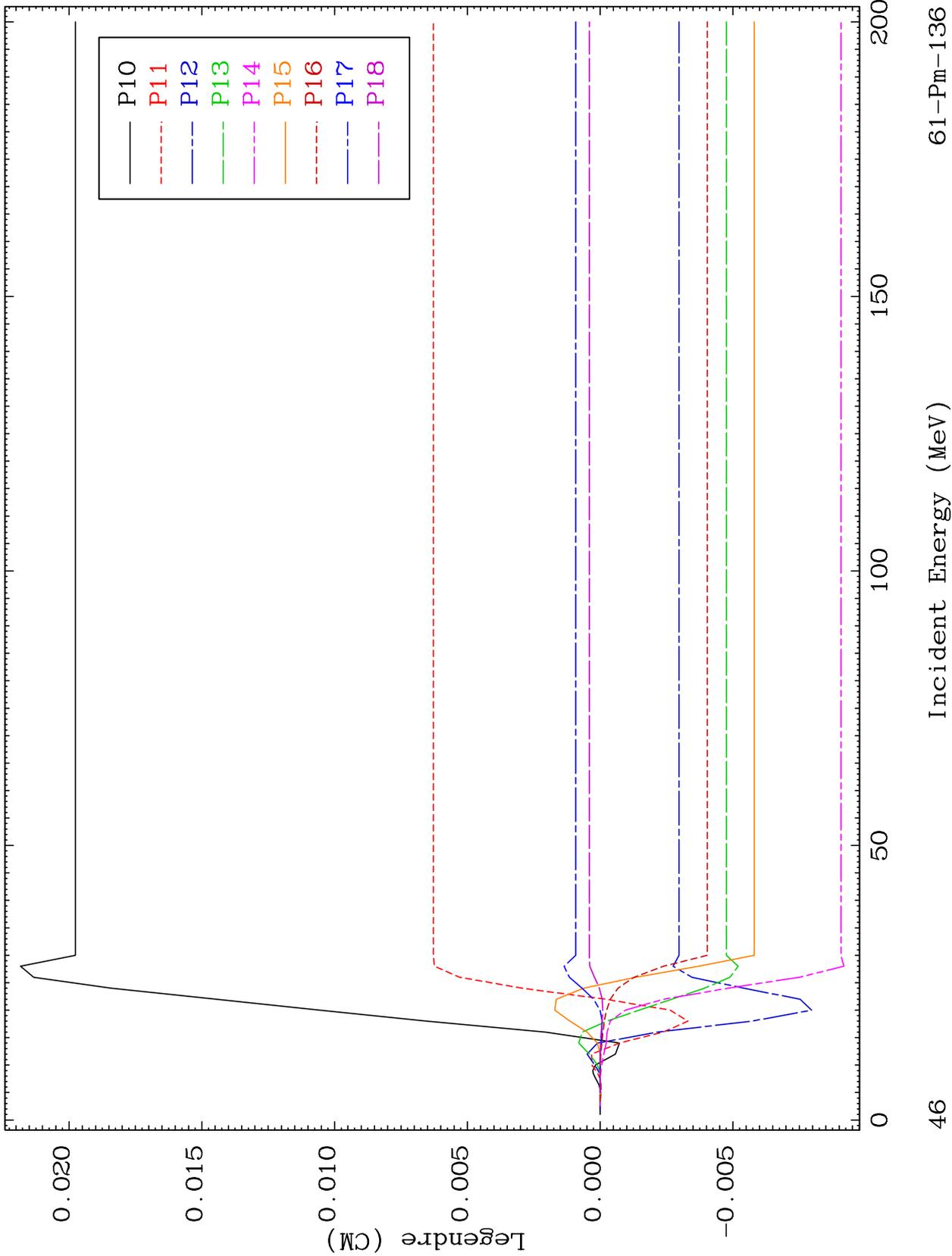
Incident Energy (MeV)

45

MAT 61116

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

61-Pm-136



46

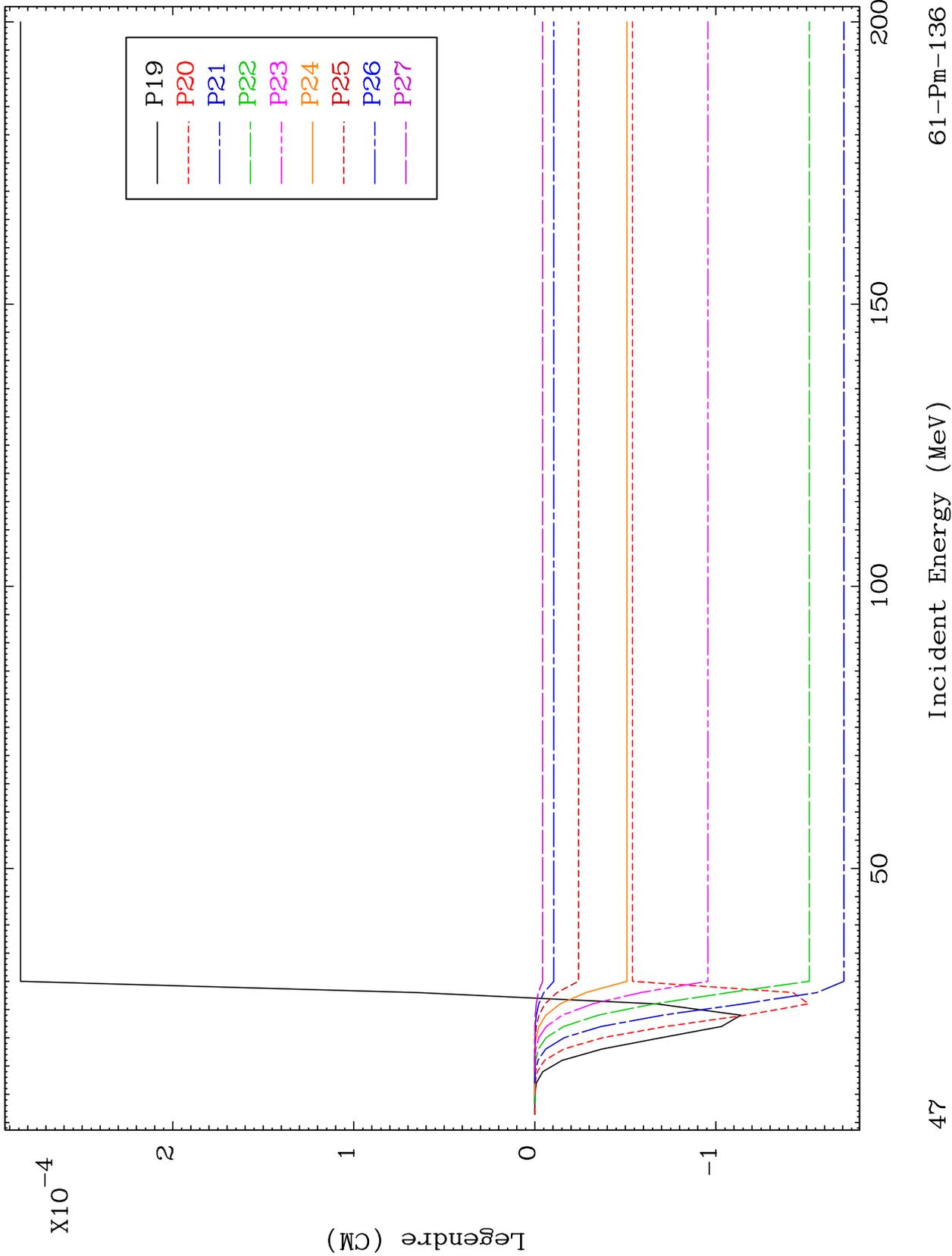
Incident Energy (MeV)

61-Pm-136

MAT 6116

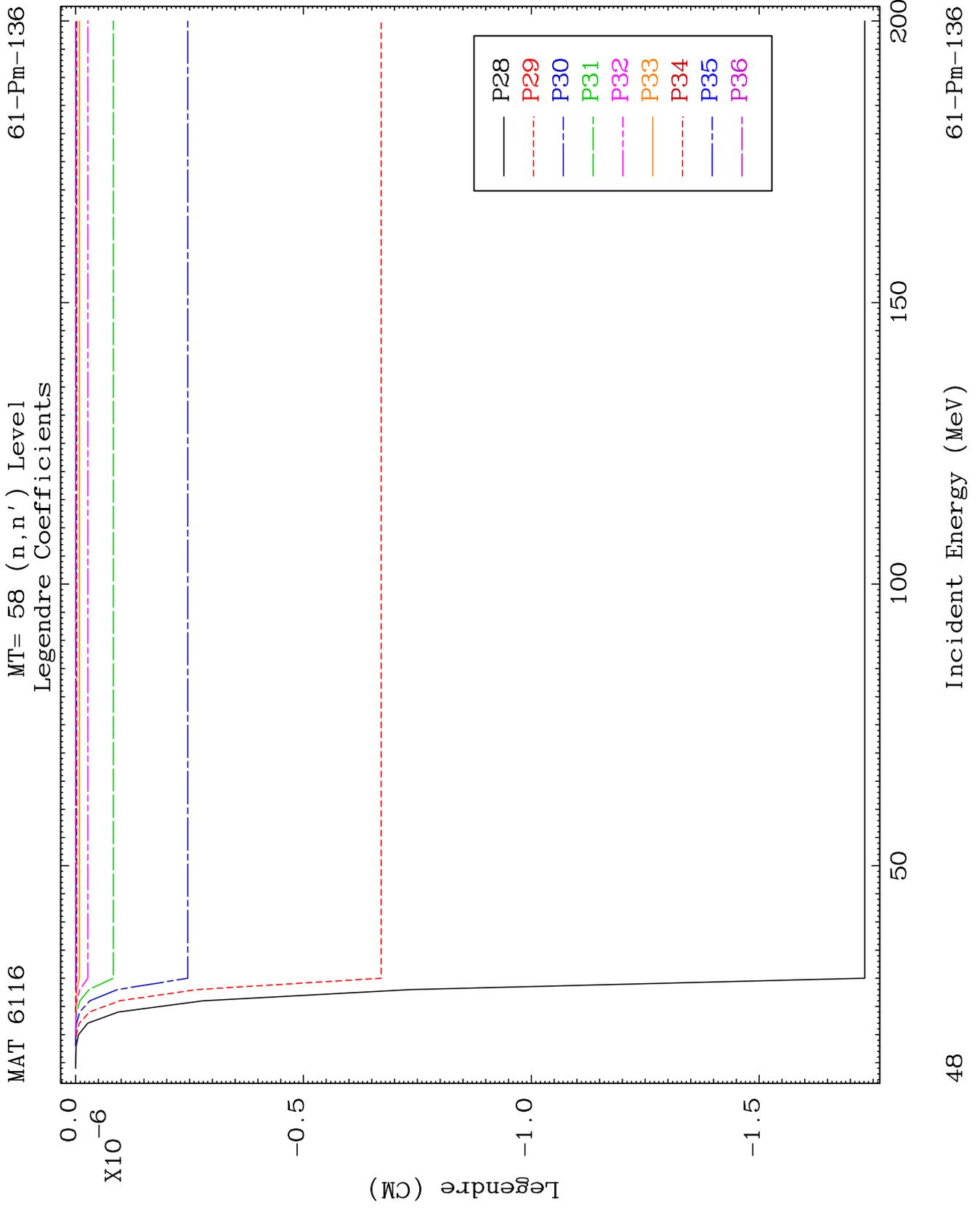
MT= 58 (n,n') Level
Legendre Coefficients

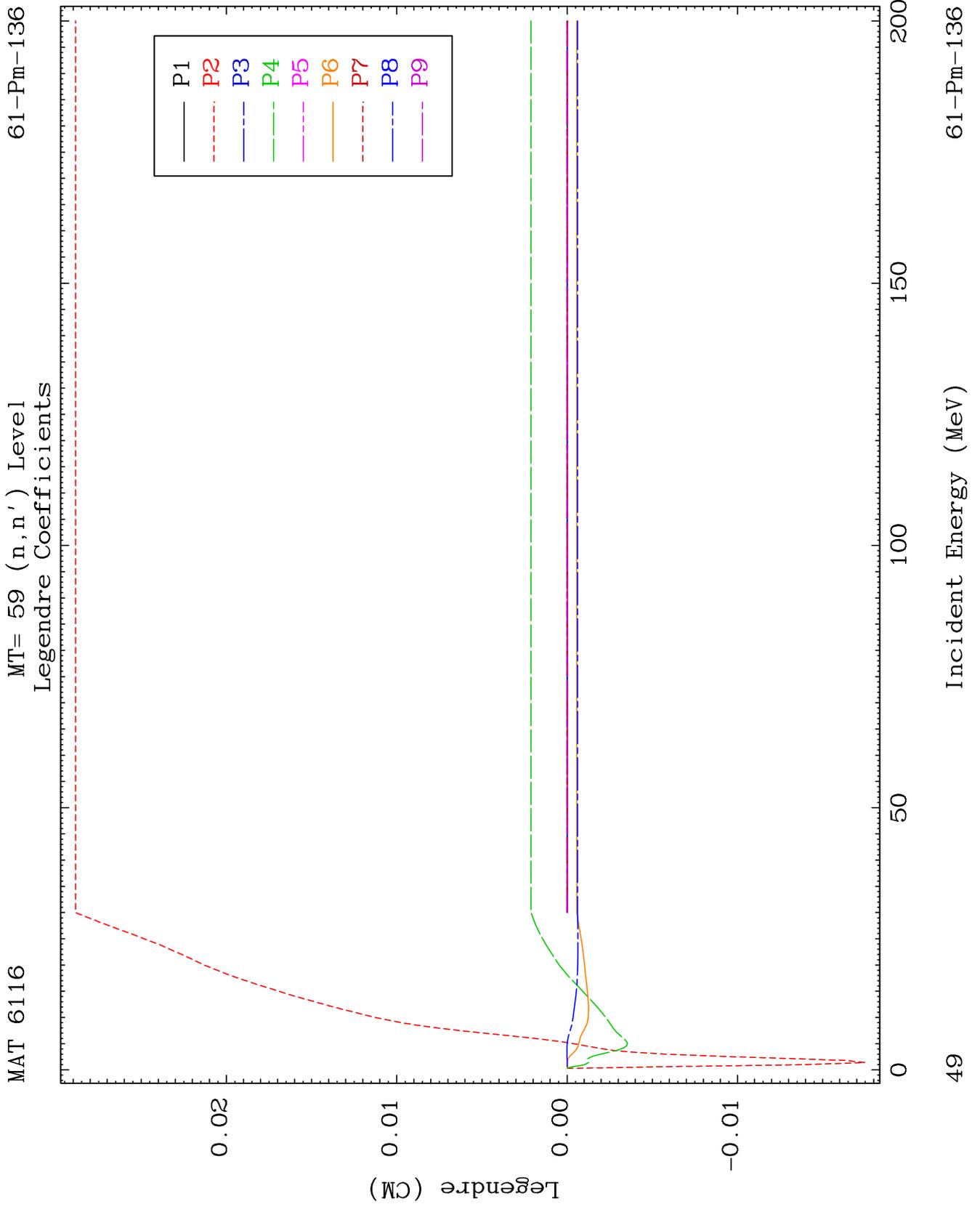
61-Pm-136



47

61-Pm-136

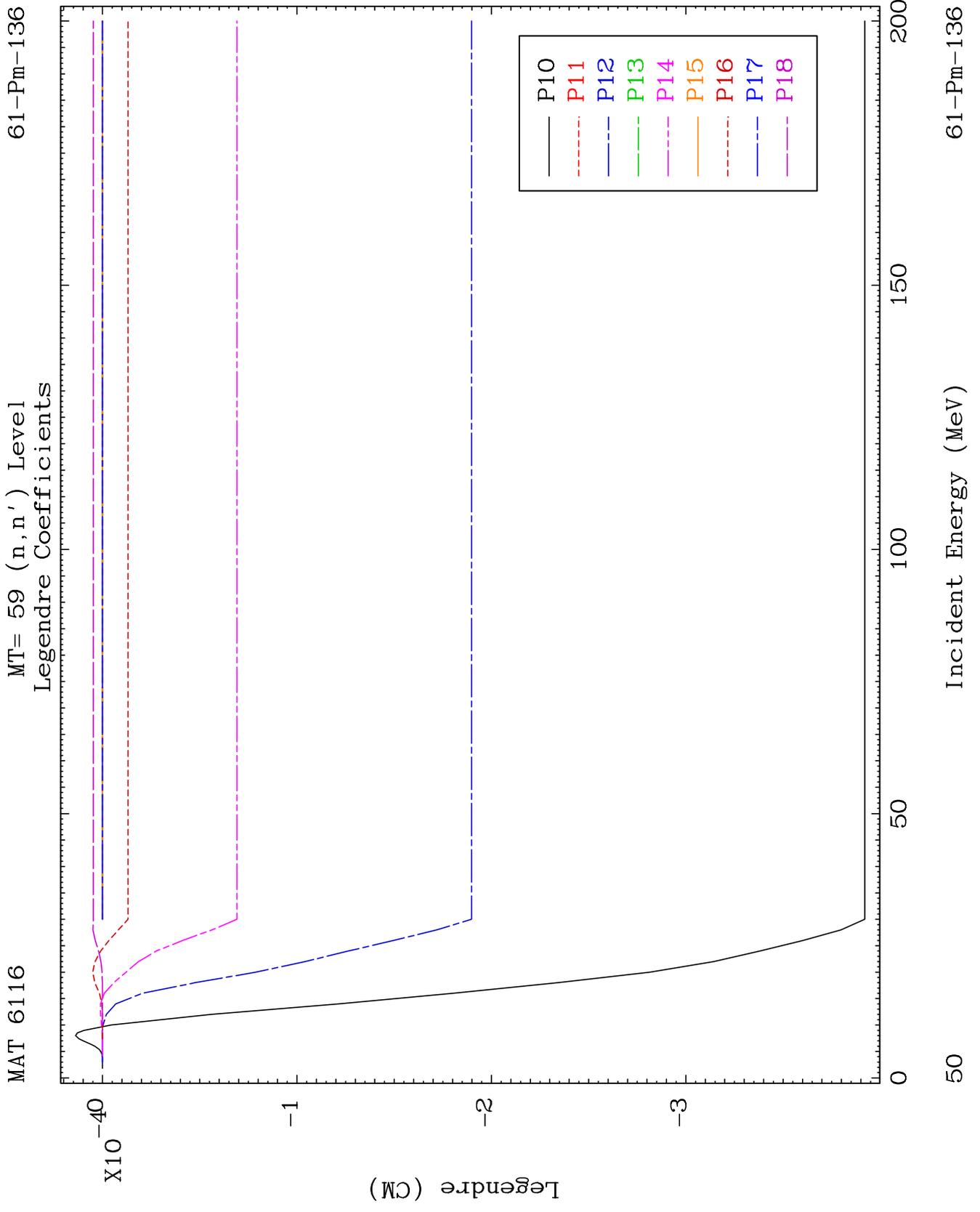


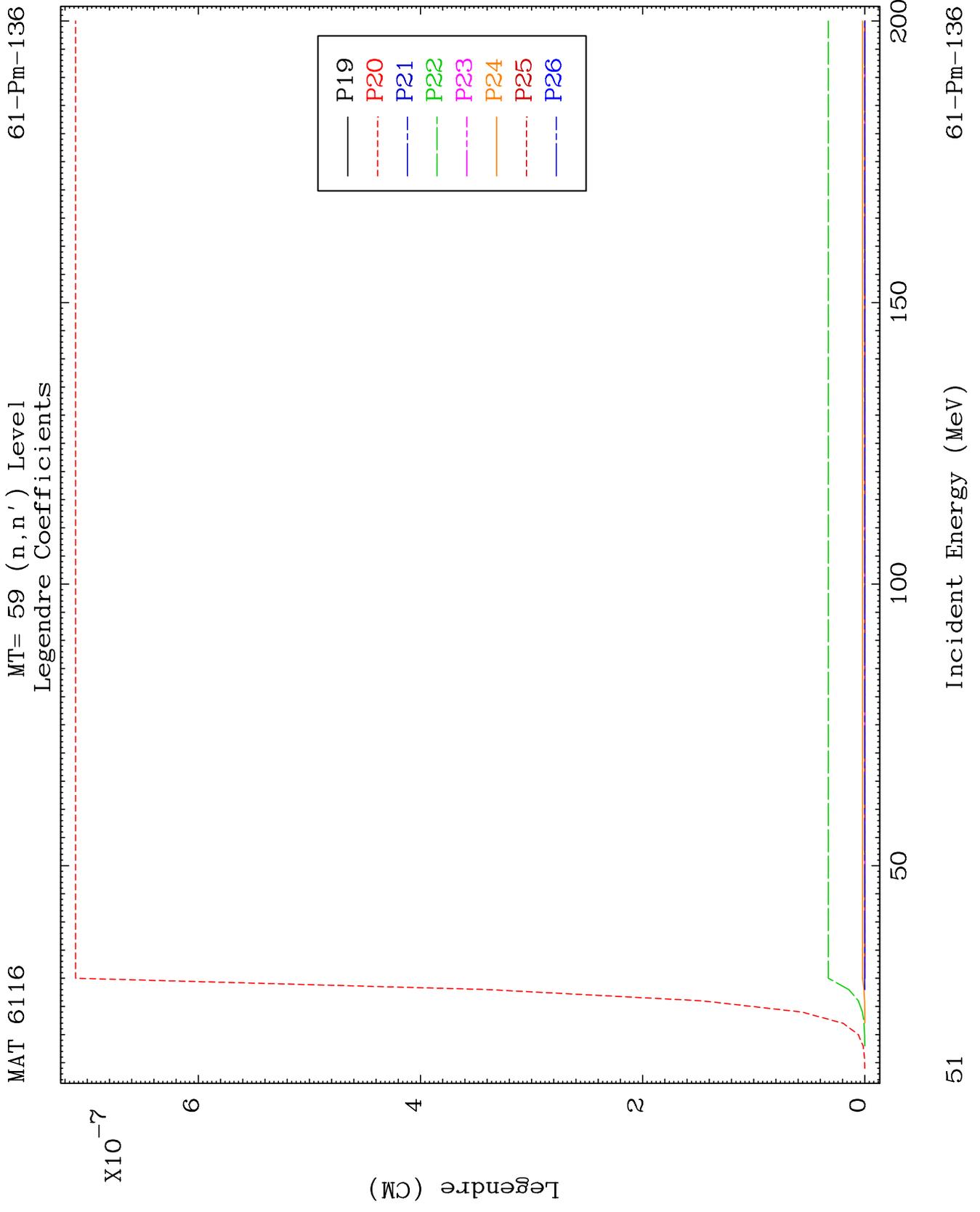


61-Pm-136

Incident Energy (MeV)

49

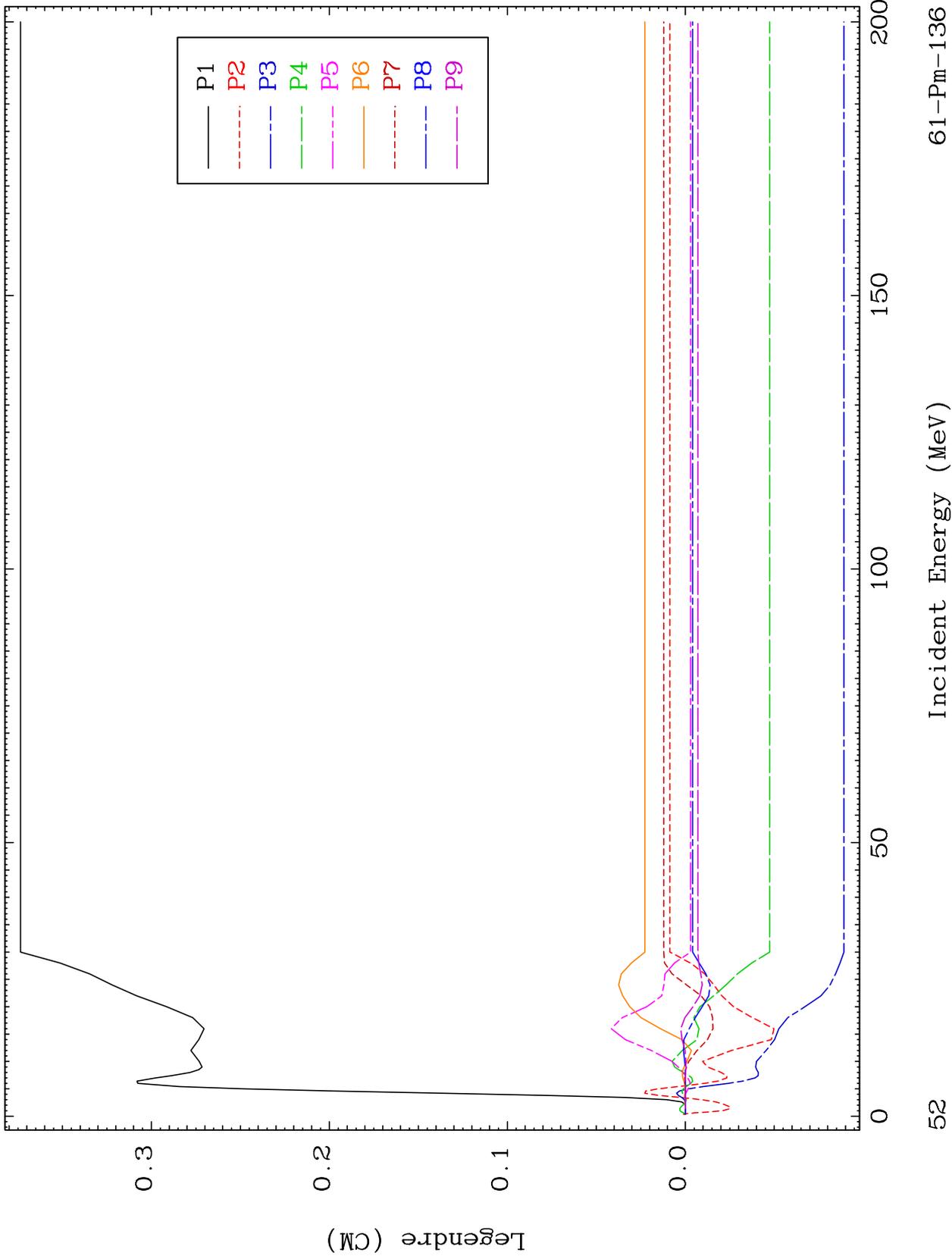




MAT 6116

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

61-Pm-136



52

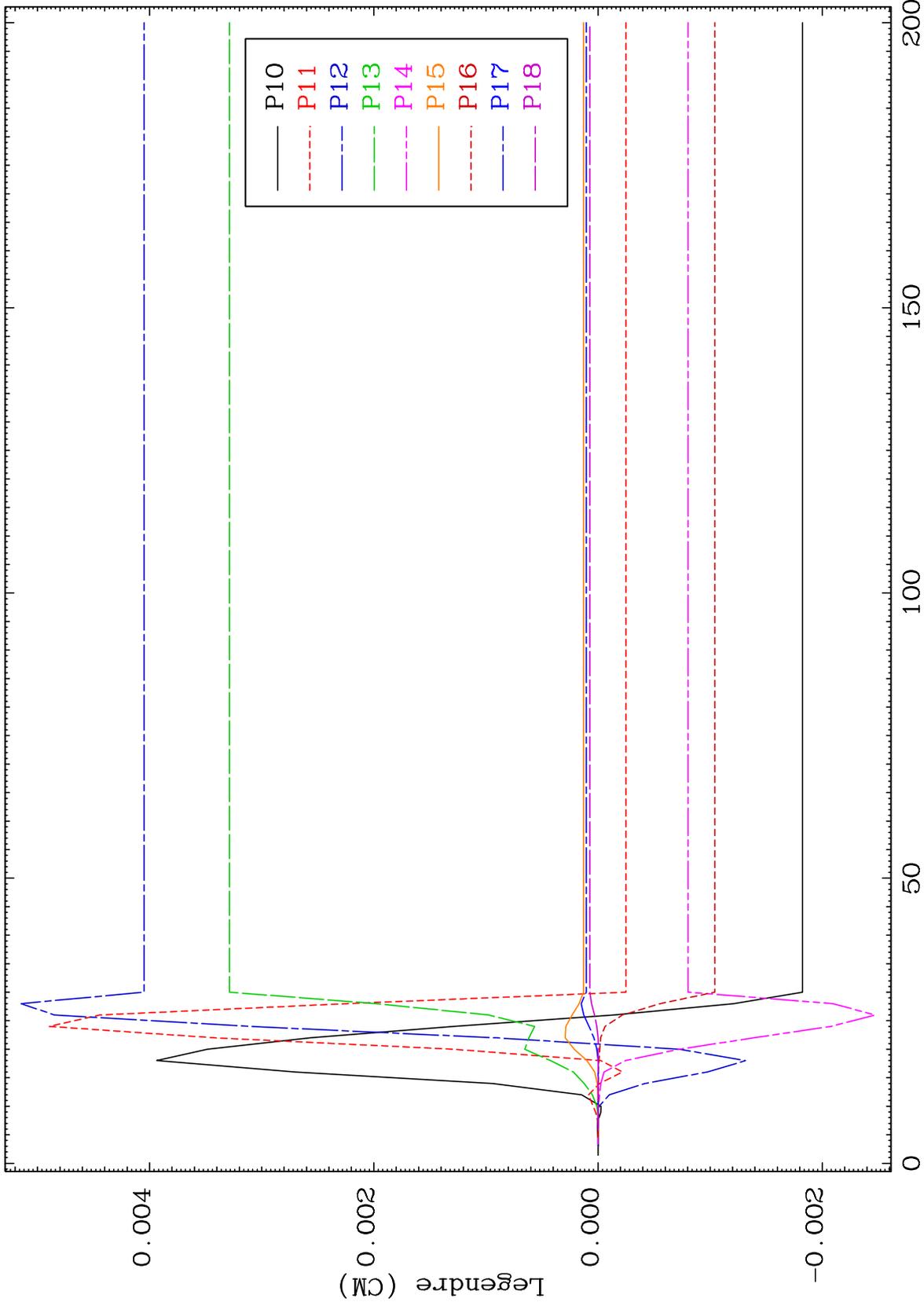
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



53

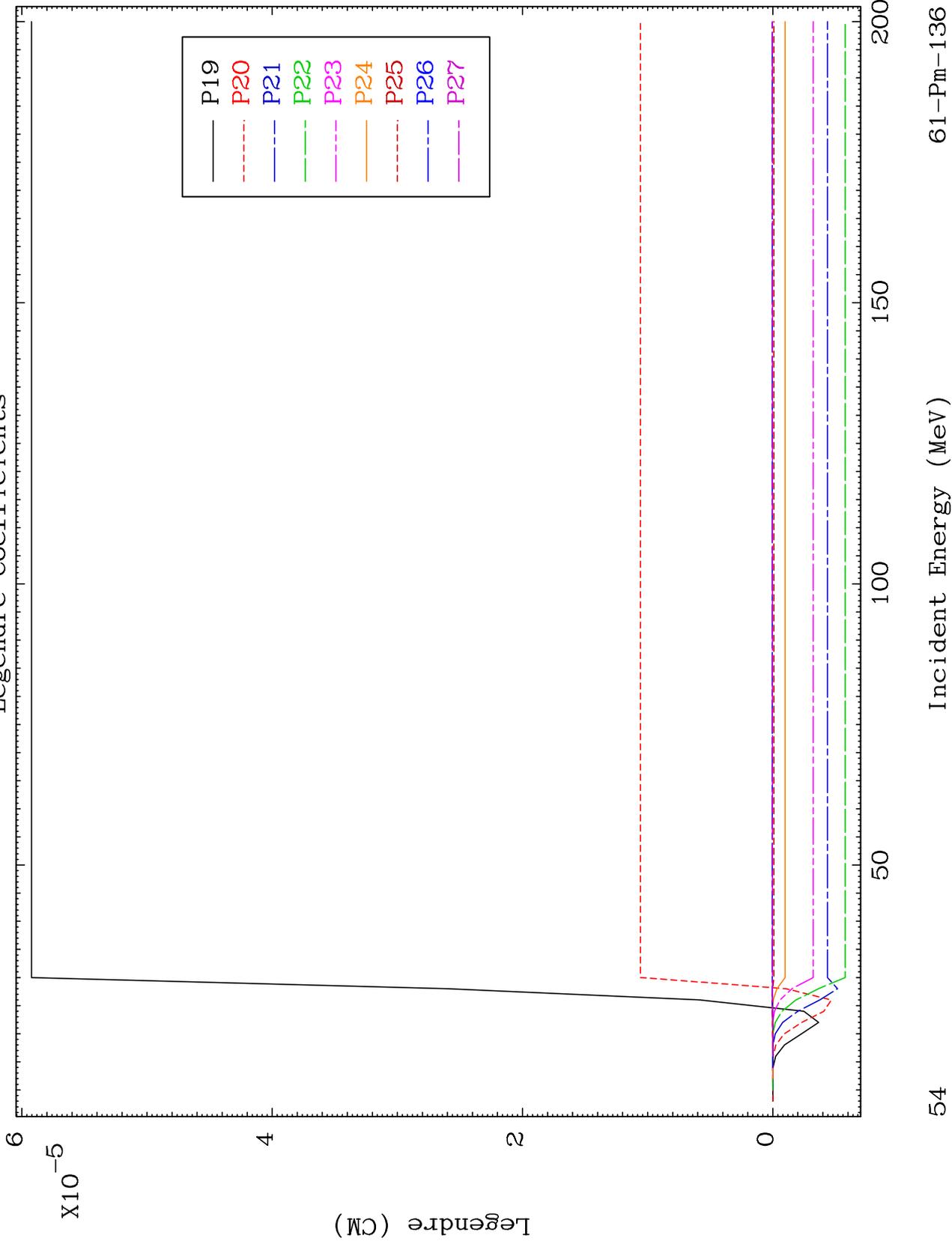
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



54

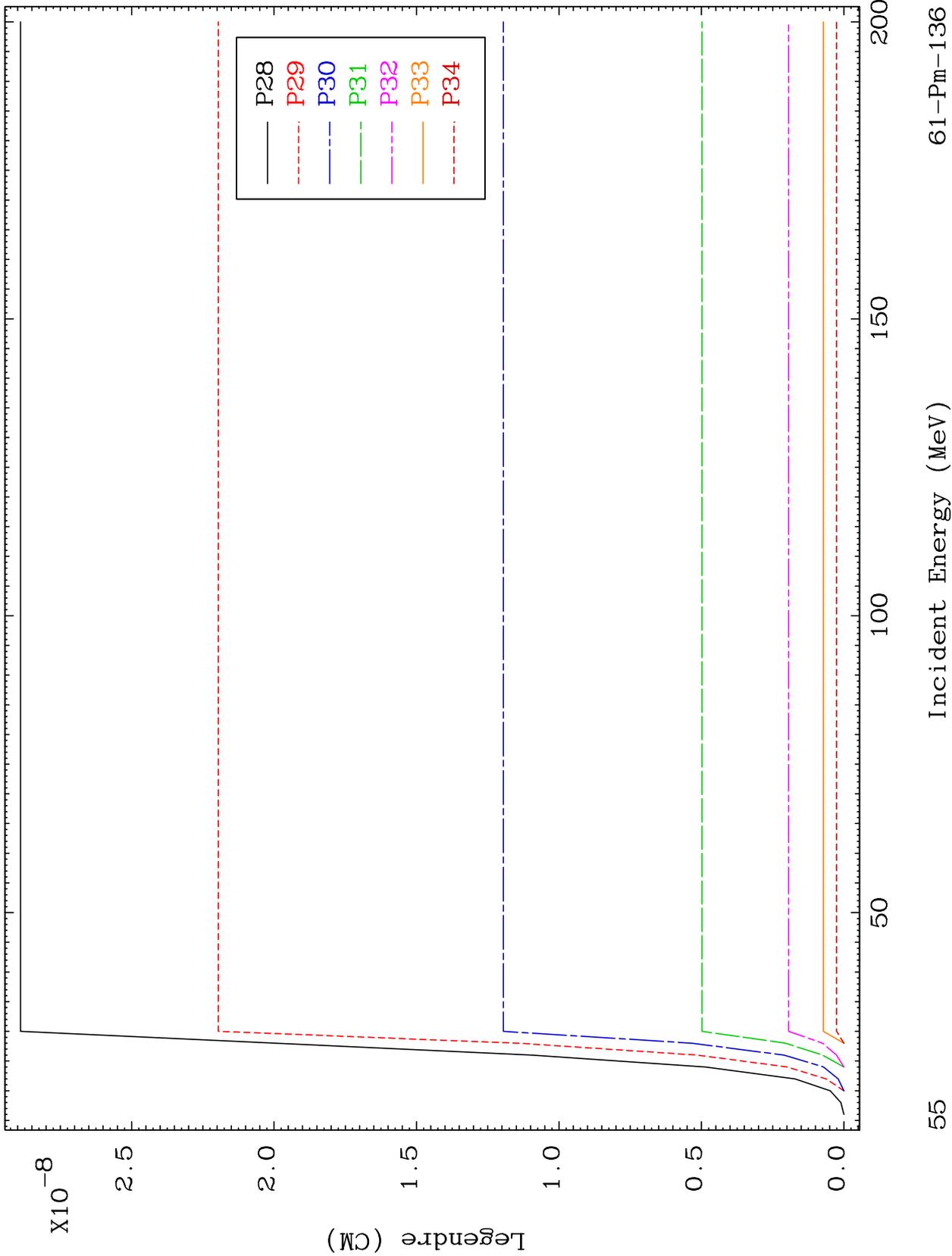
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



55

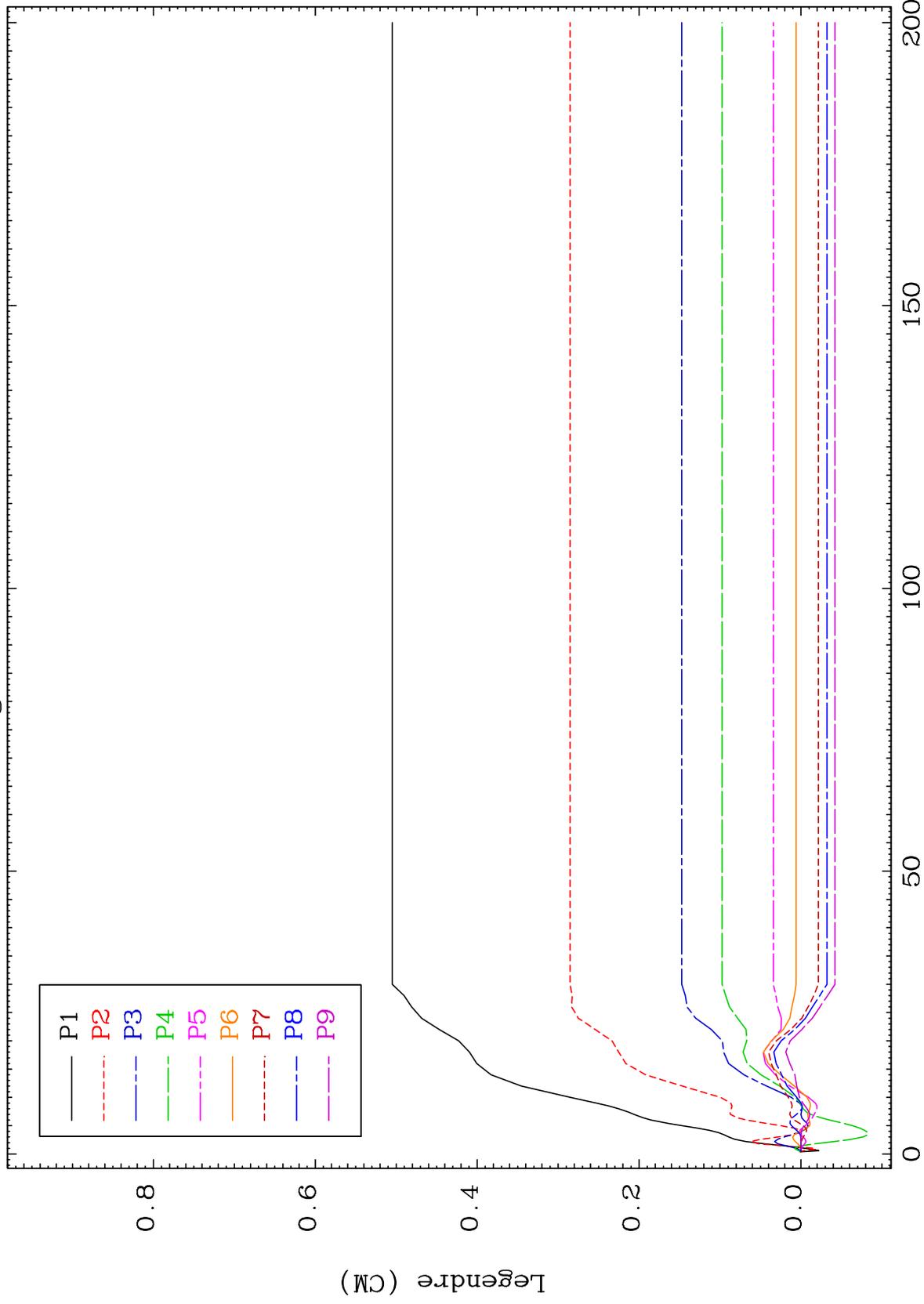
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



56

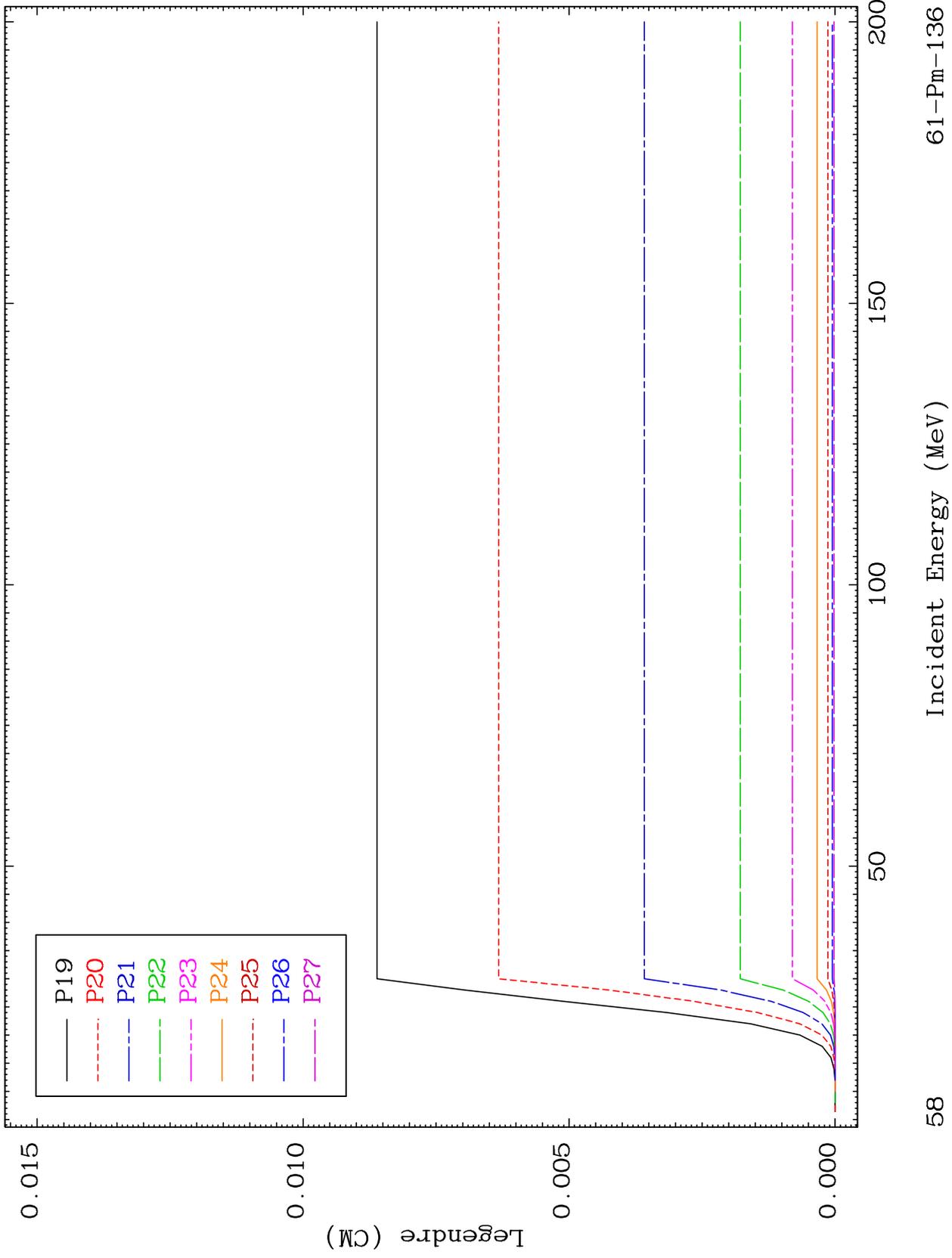
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



58

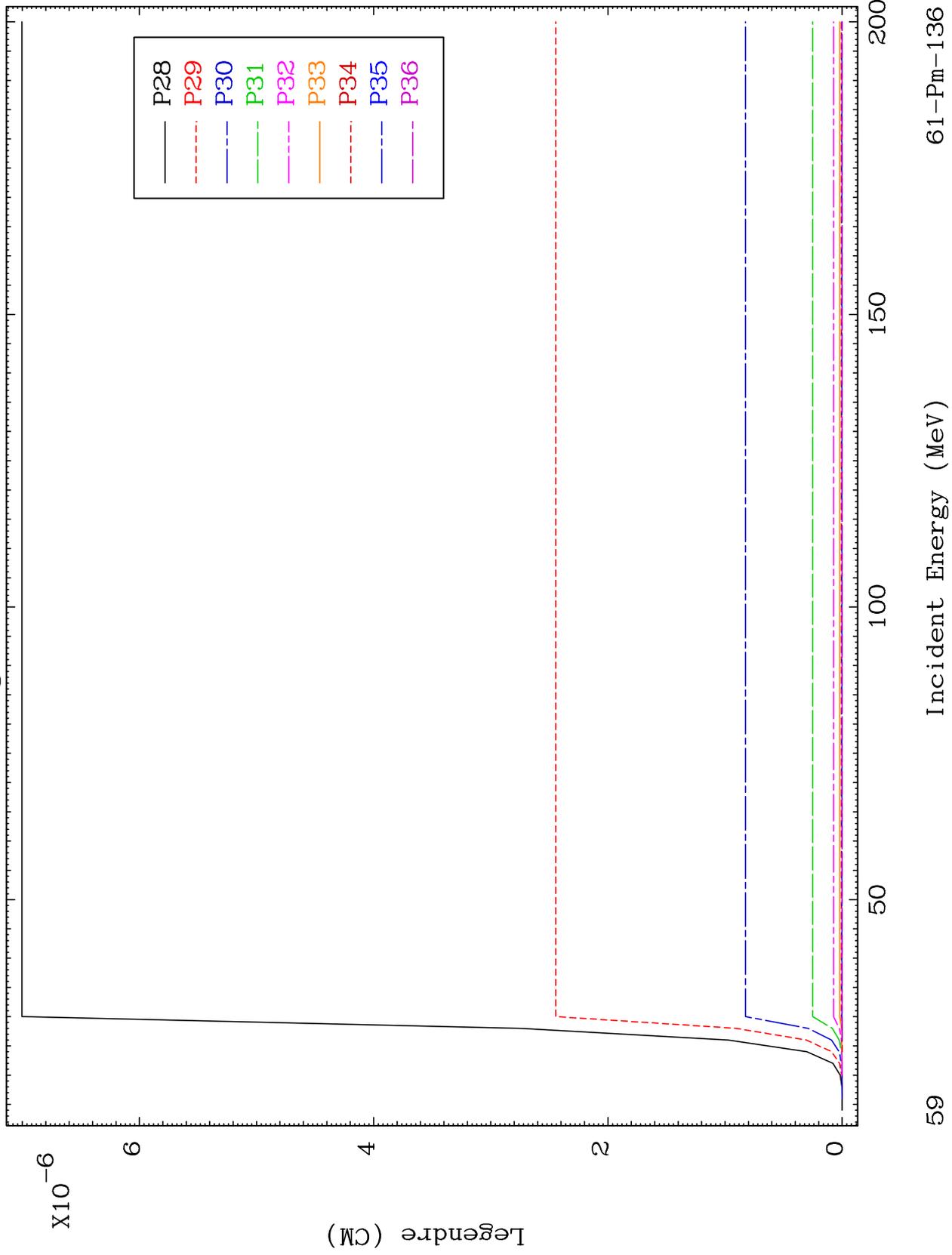
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



59

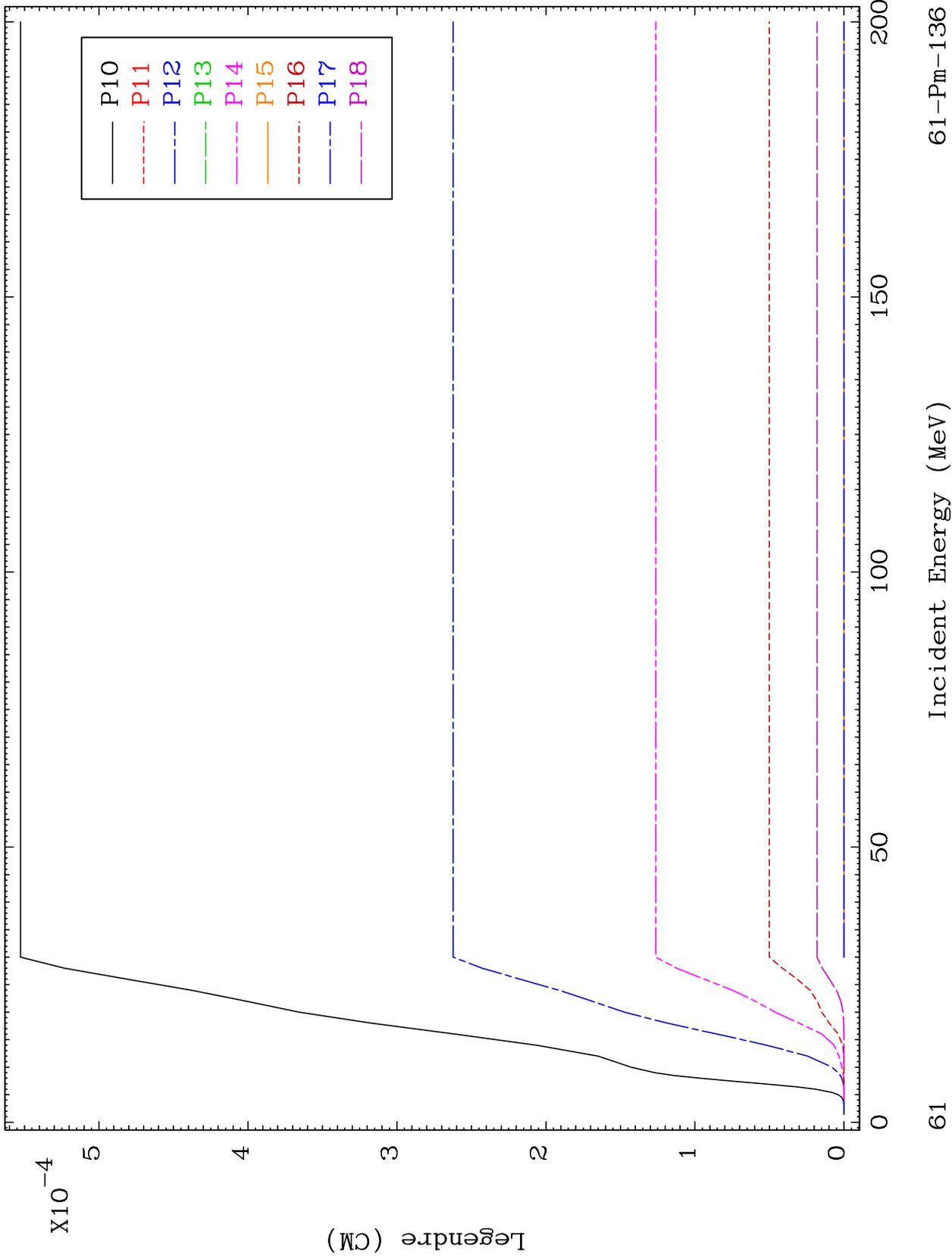
Incident Energy (MeV)

61-Pm-136

MAT 61116

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

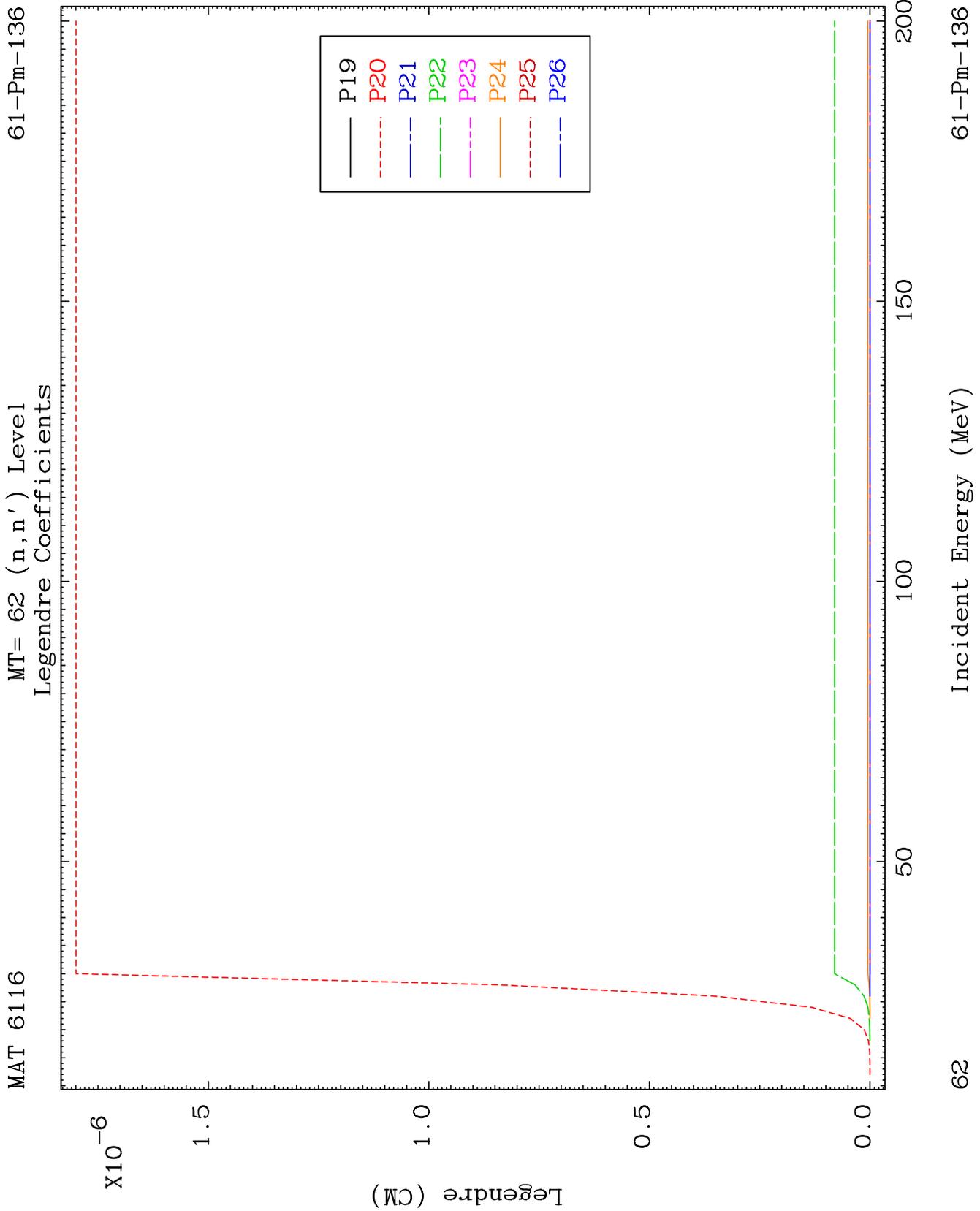
61-Pm-136



61-Pm-136

Incident Energy (MeV)

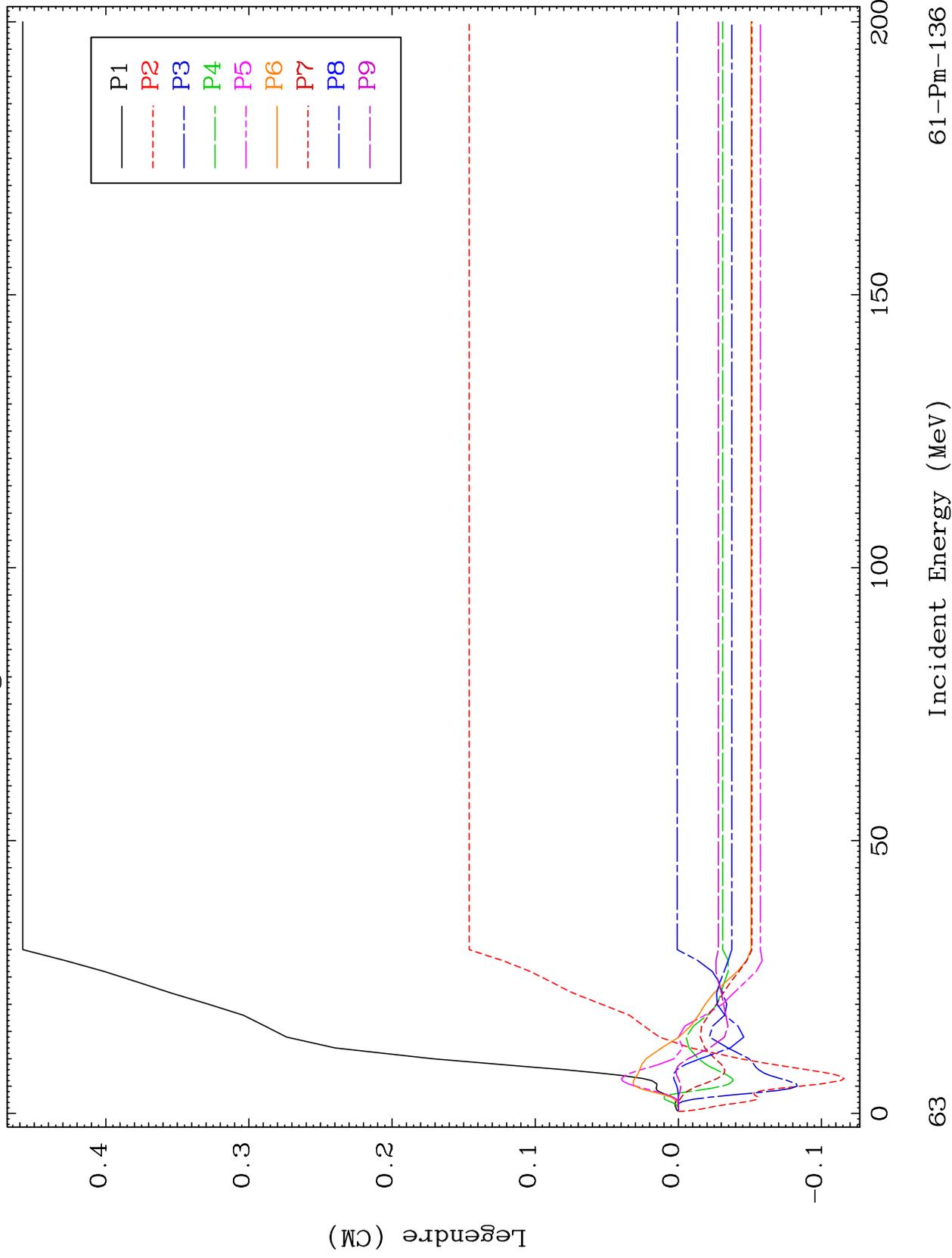
61



MAT 61116

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

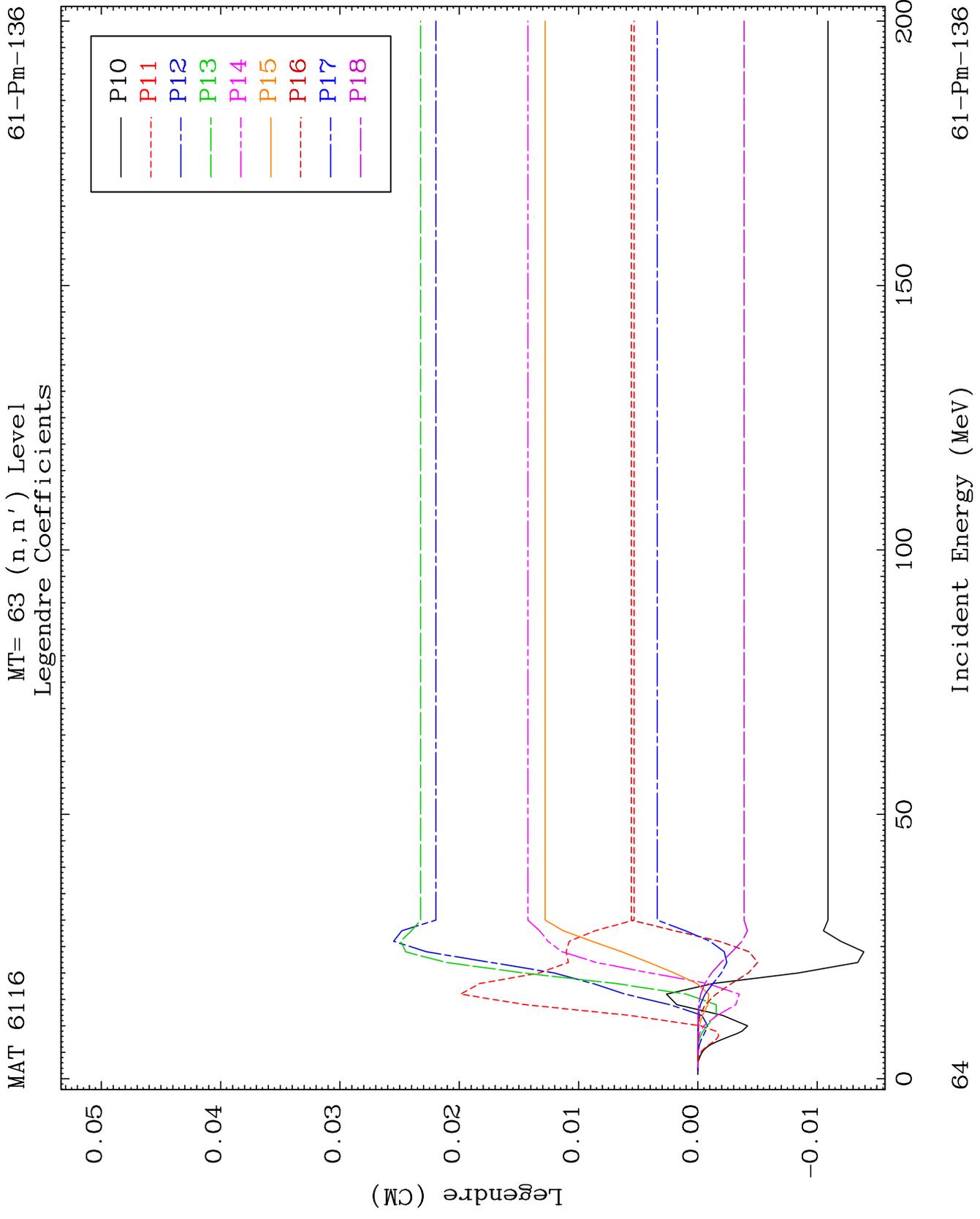
61-Pm-136



61-Pm-136

Incident Energy (MeV)

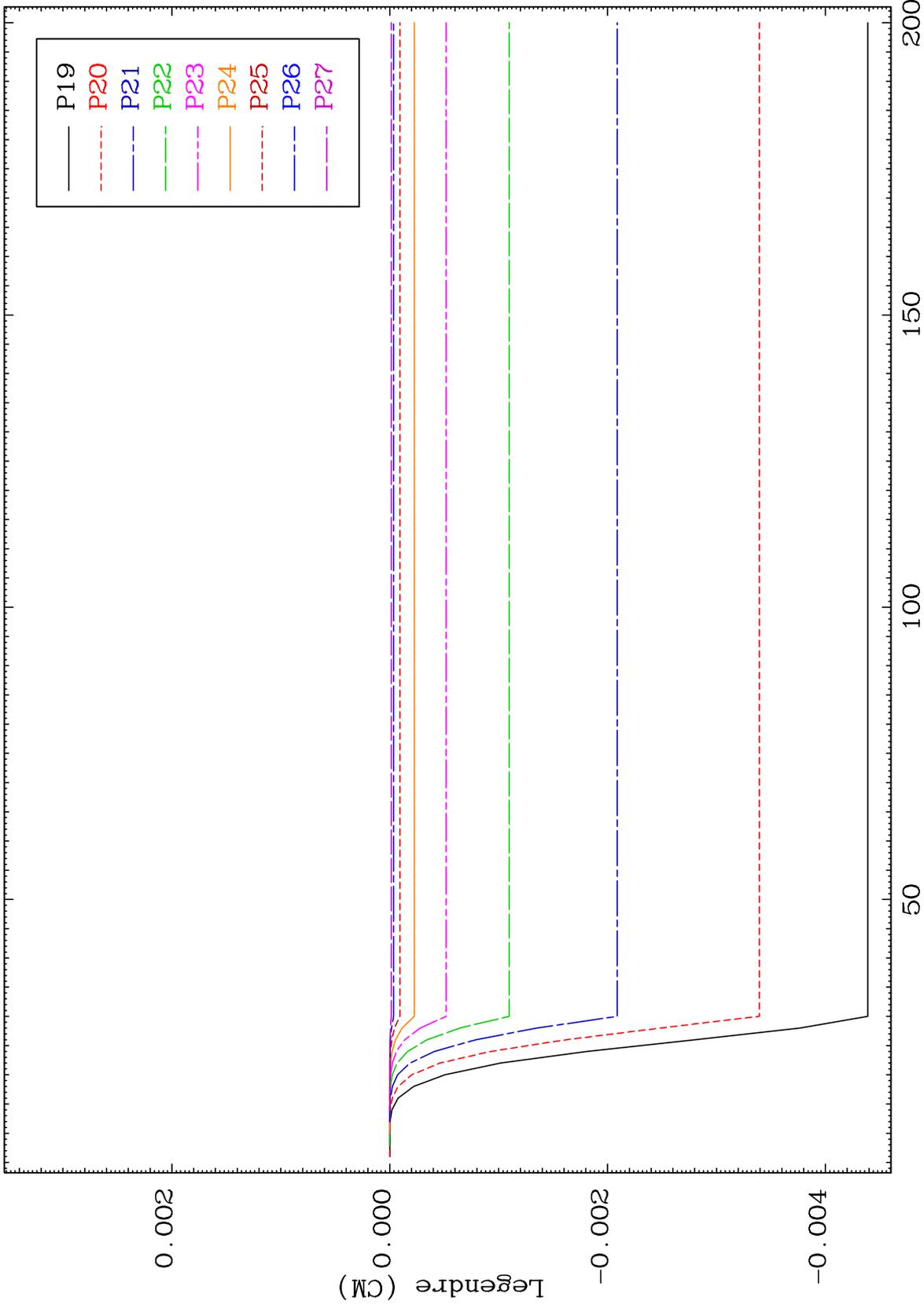
63



MAT 6116

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

61-Pm-136



65

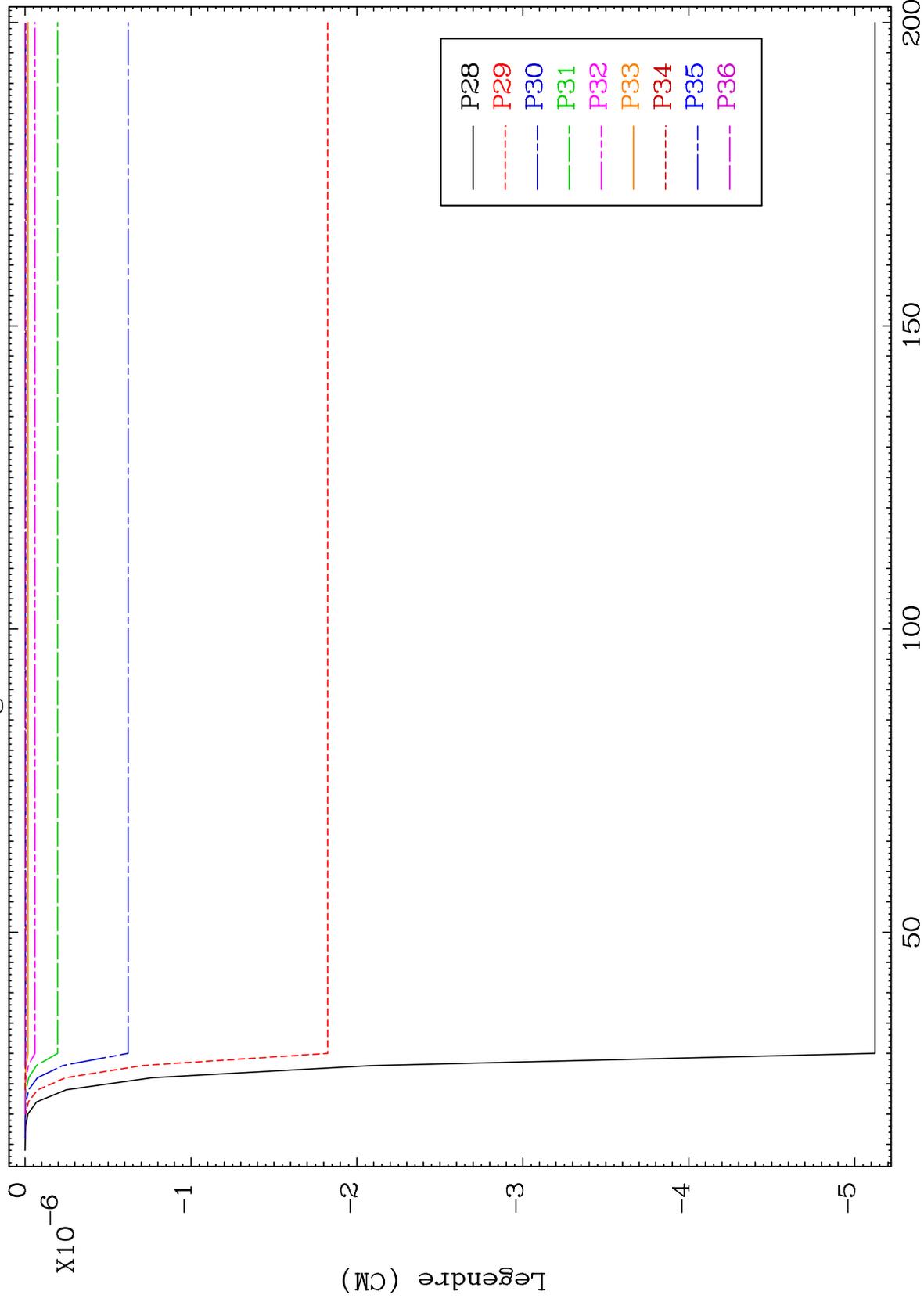
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



66

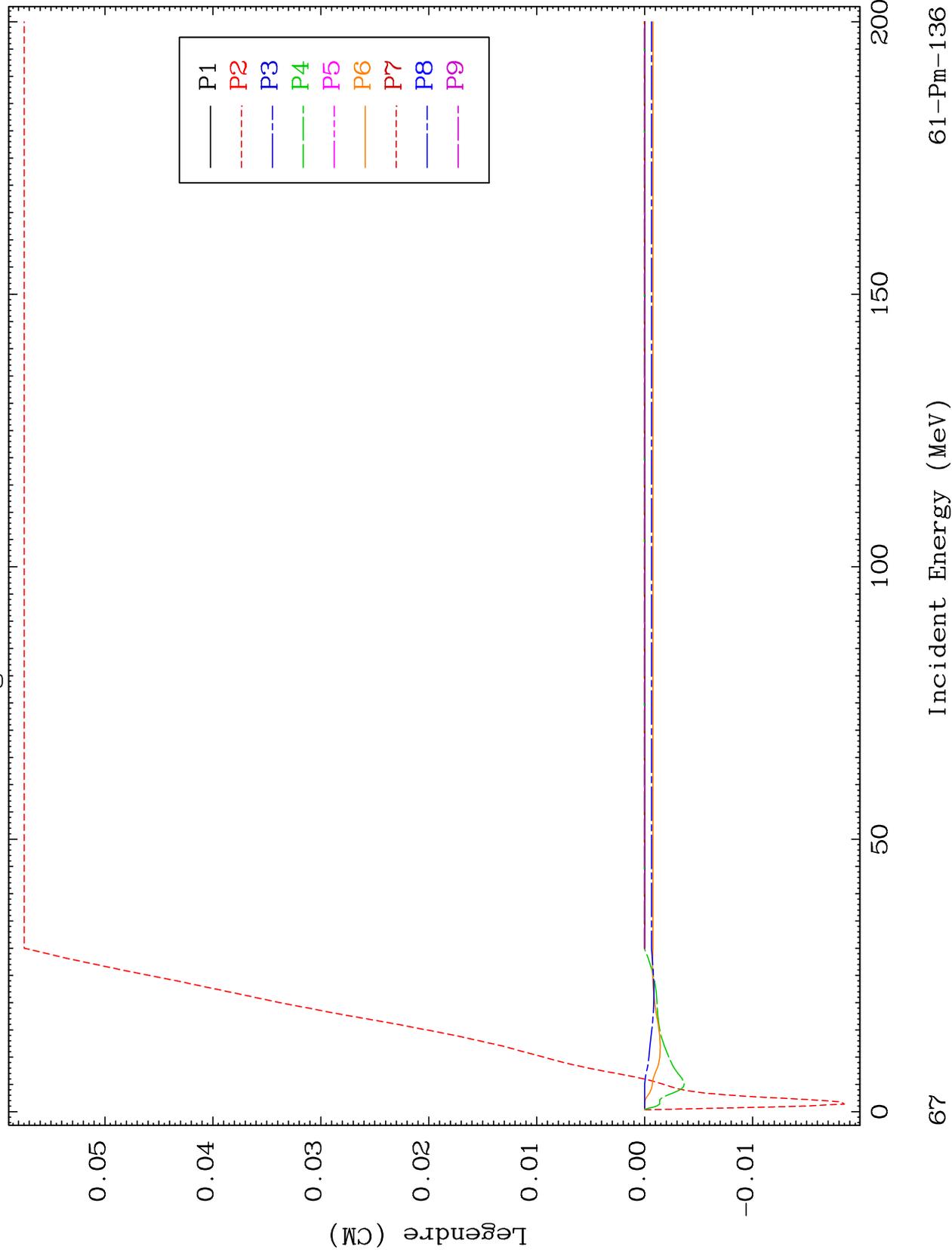
Incident Energy (MeV)

61-Pm-136

MAT 61116

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

61-Pm-136



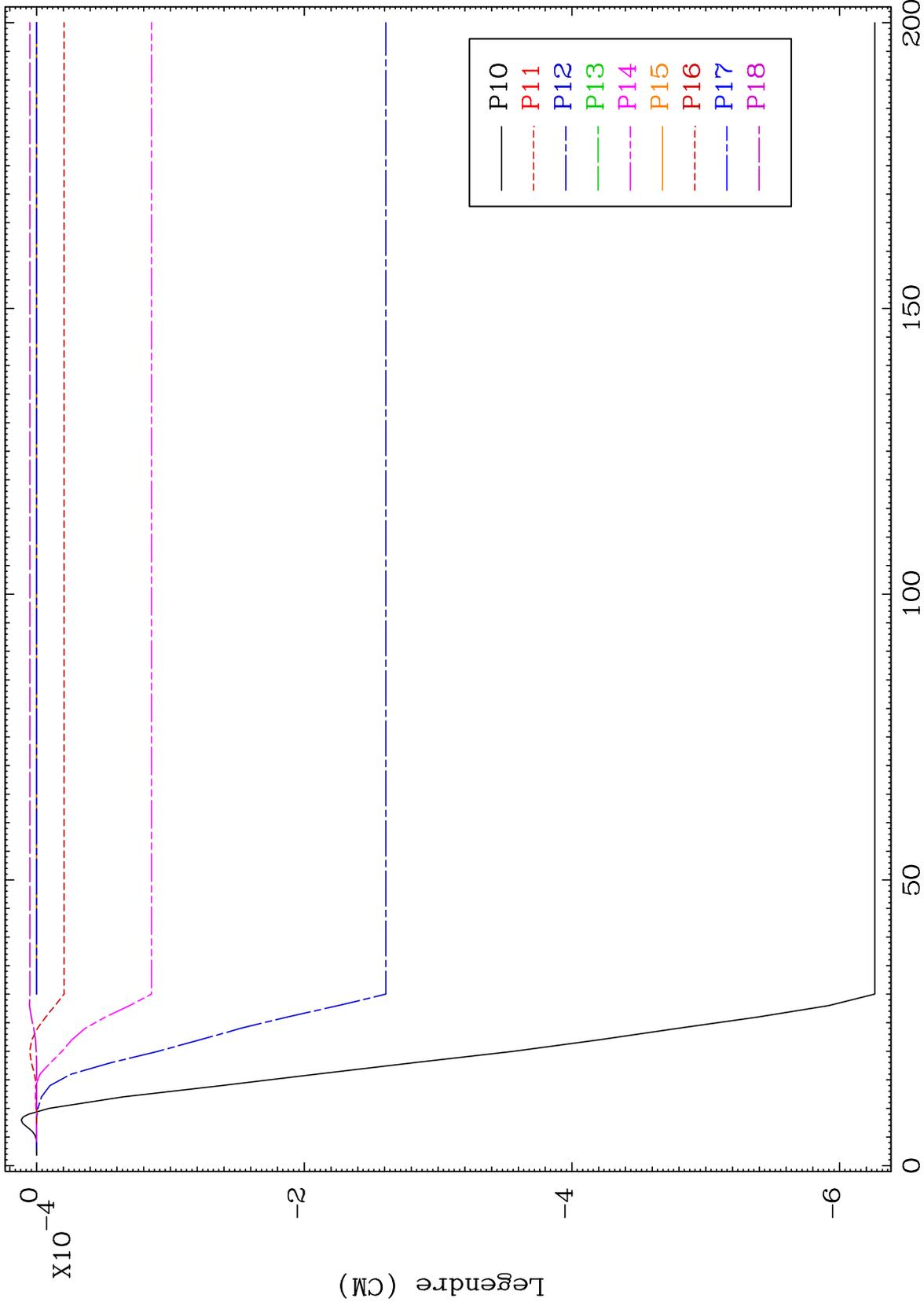
67

MAT 6116

MT= 64 (n,n') Level

61-Pm-136

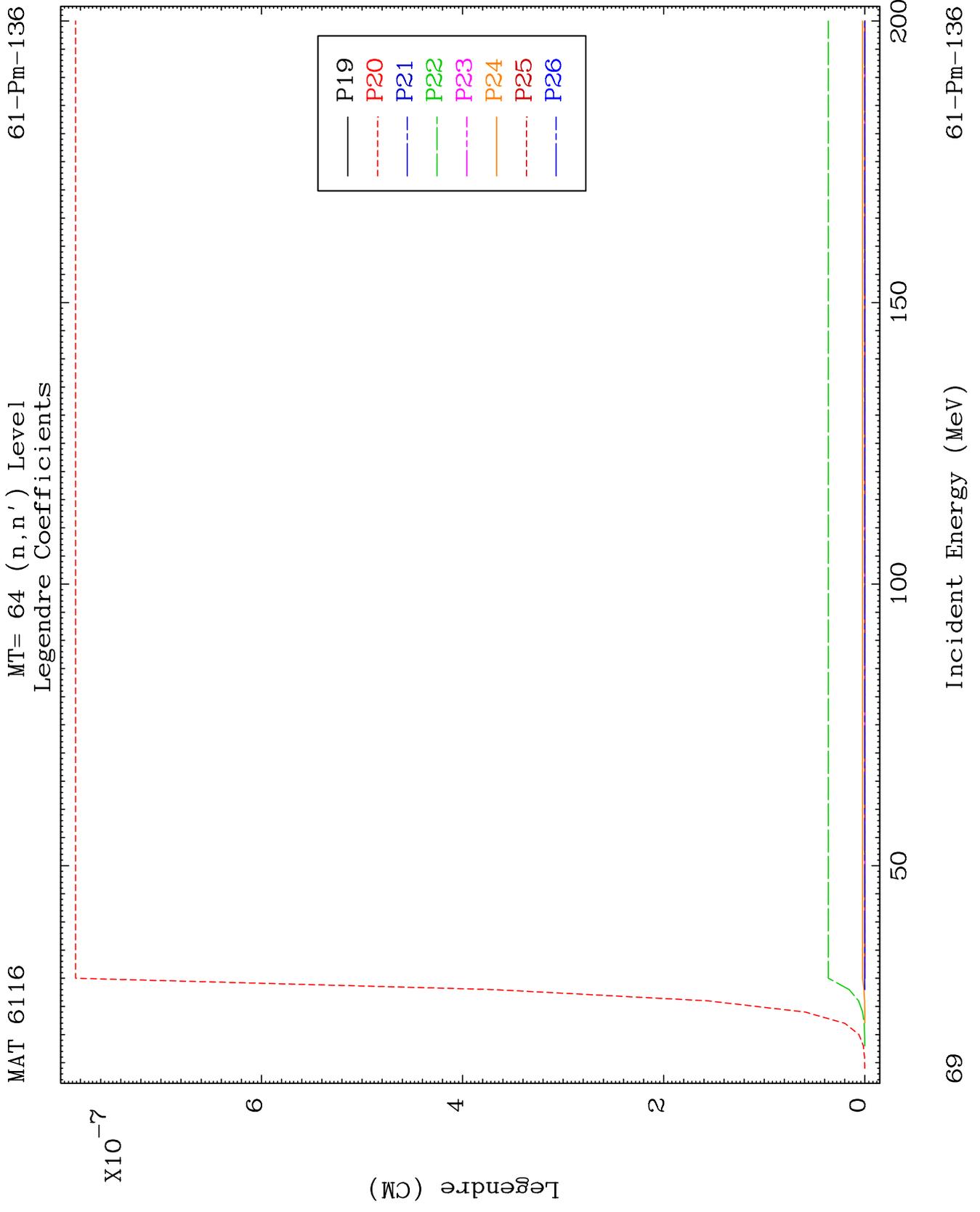
Legendre Coefficients



68

Incident Energy (MeV)

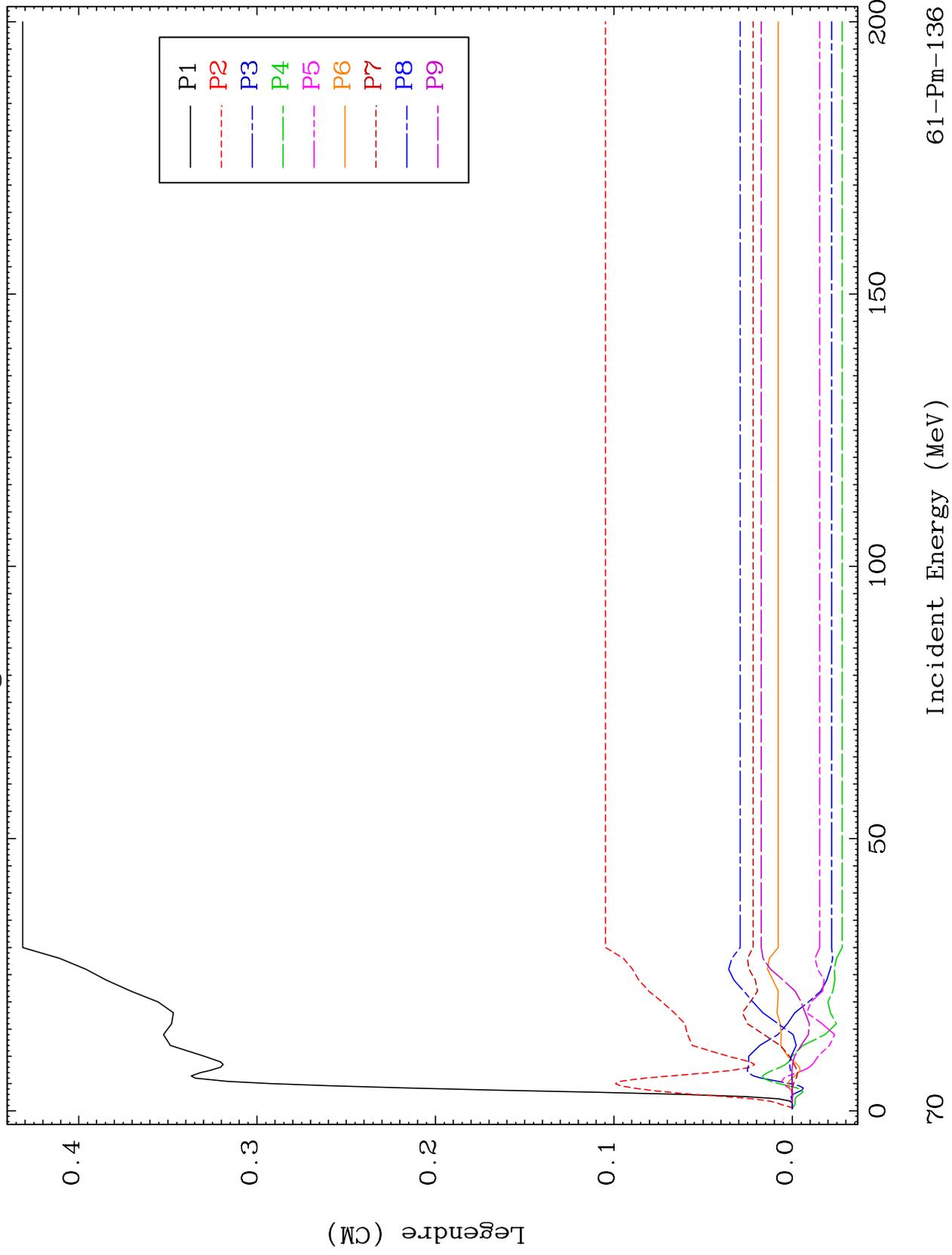
61-Pm-136



MAT 6116

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

61-Pm-136



61-Pm-136

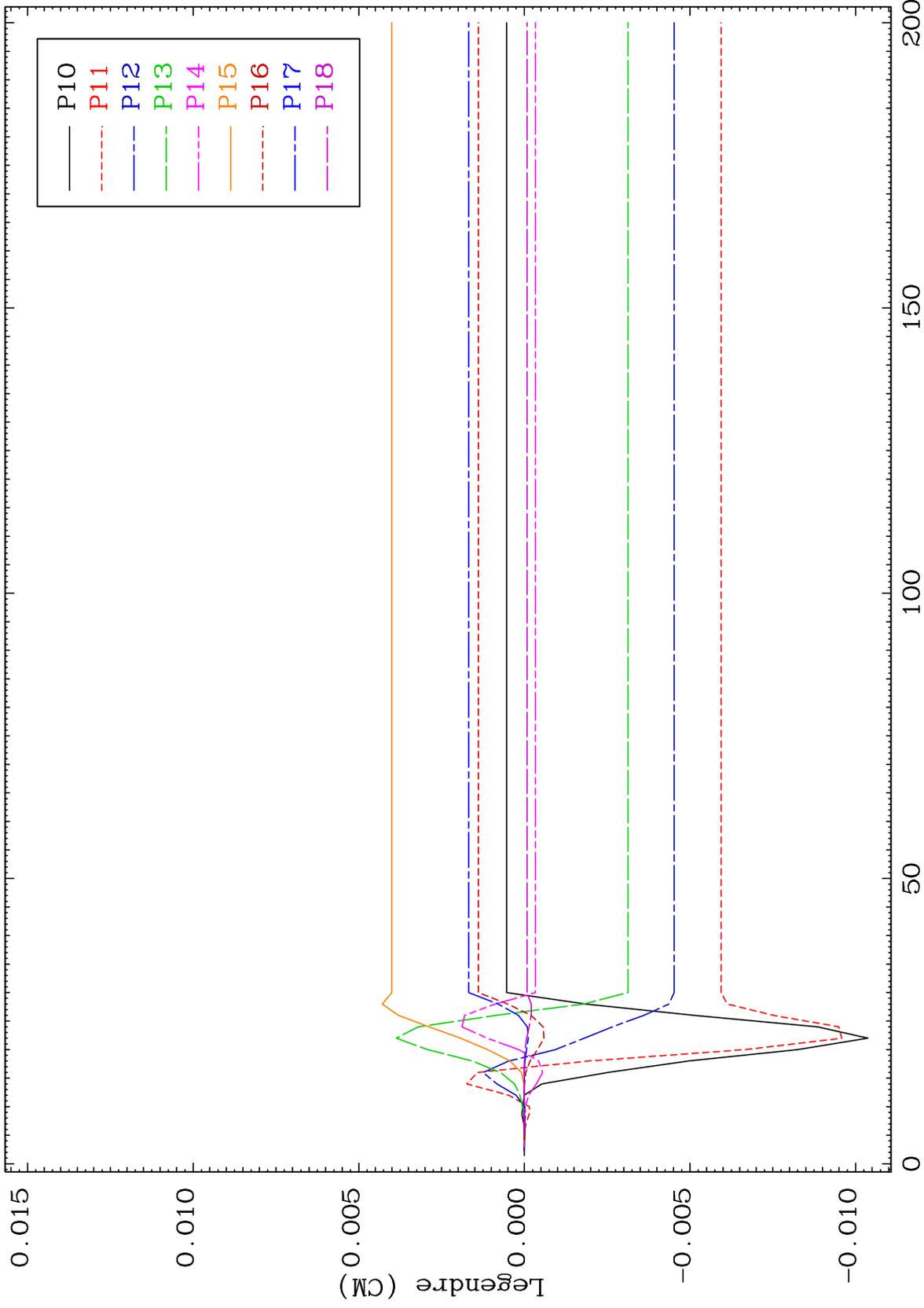
Incident Energy (MeV)

70

MAT 6116

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

61-Pm-136



71

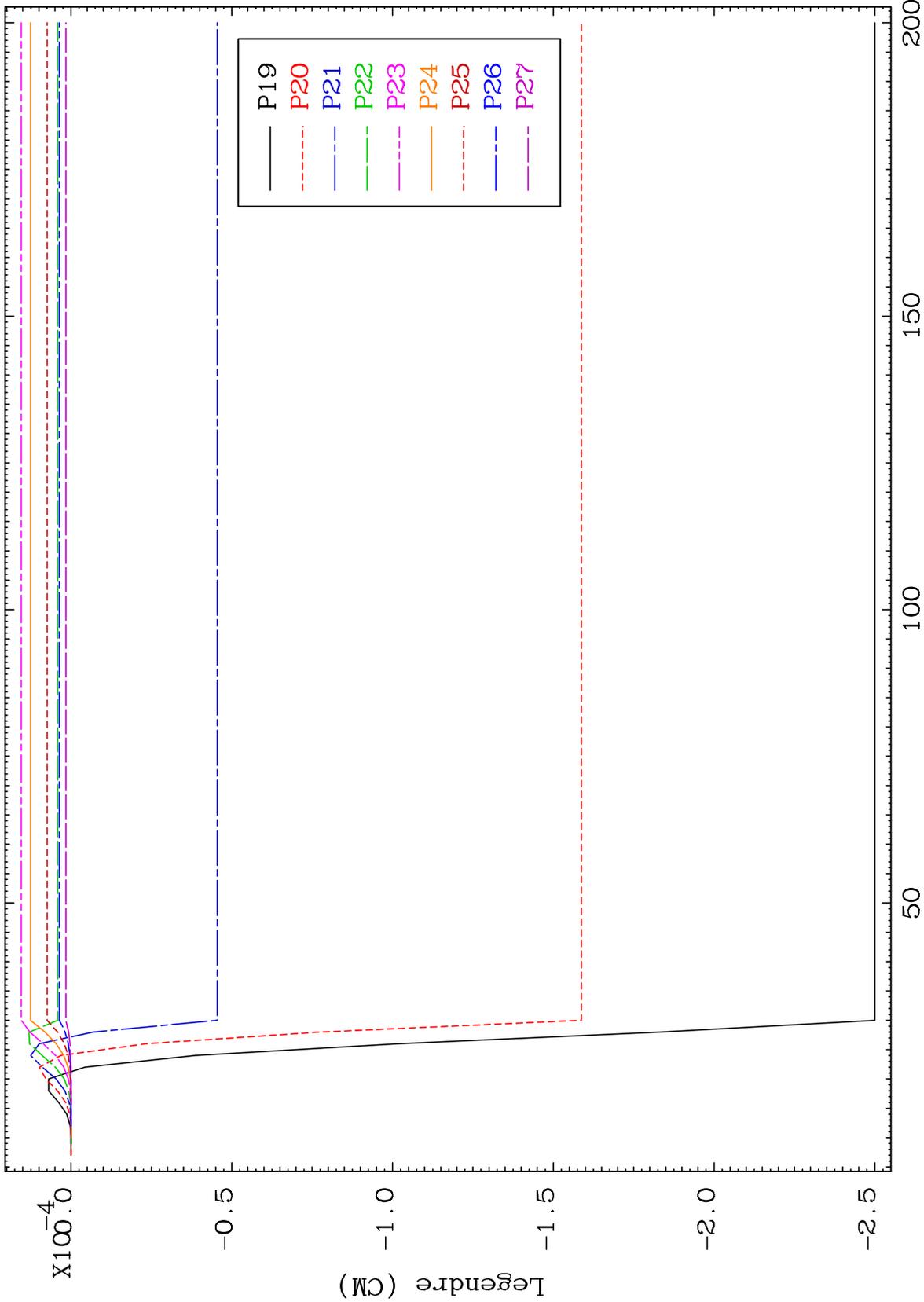
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



72

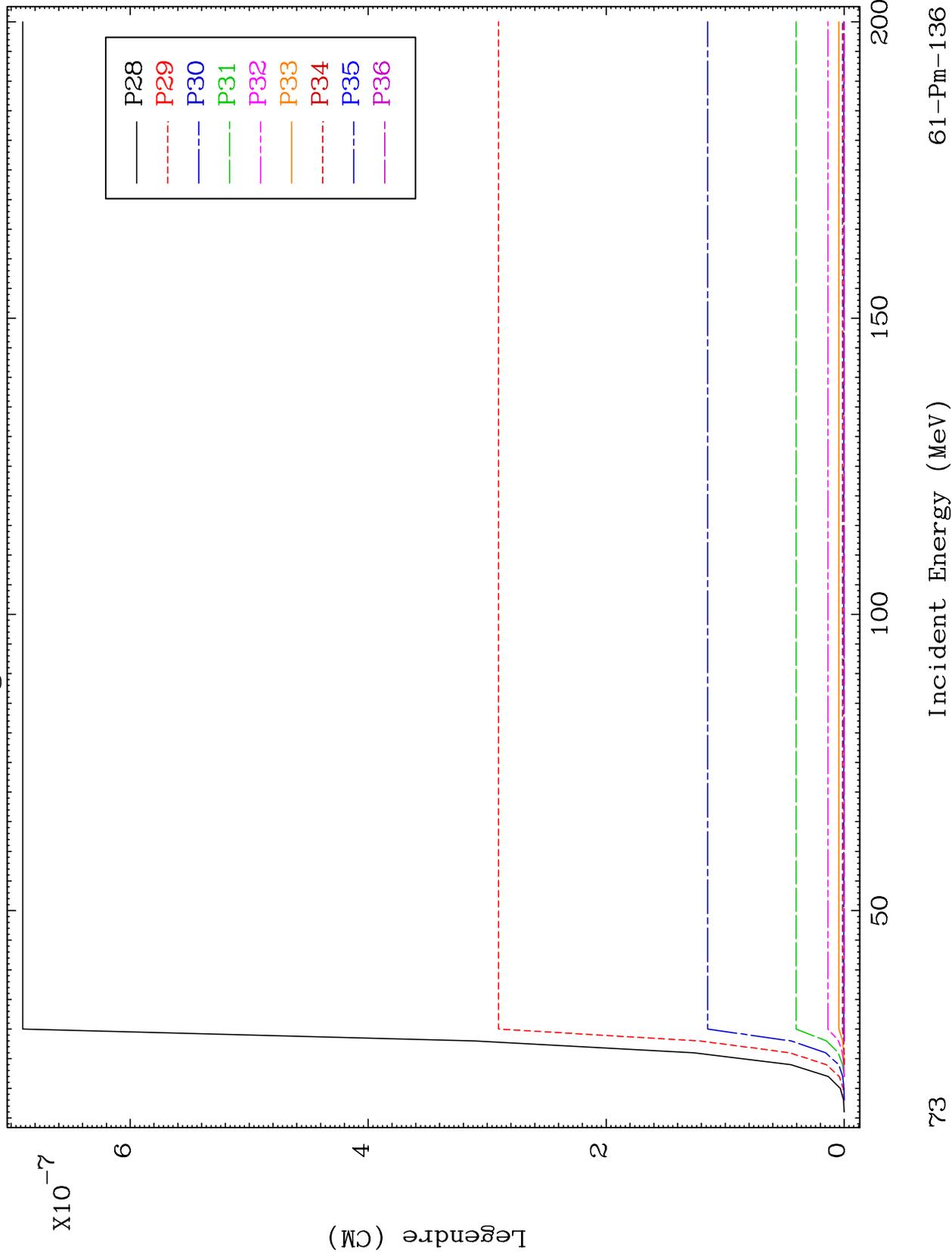
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

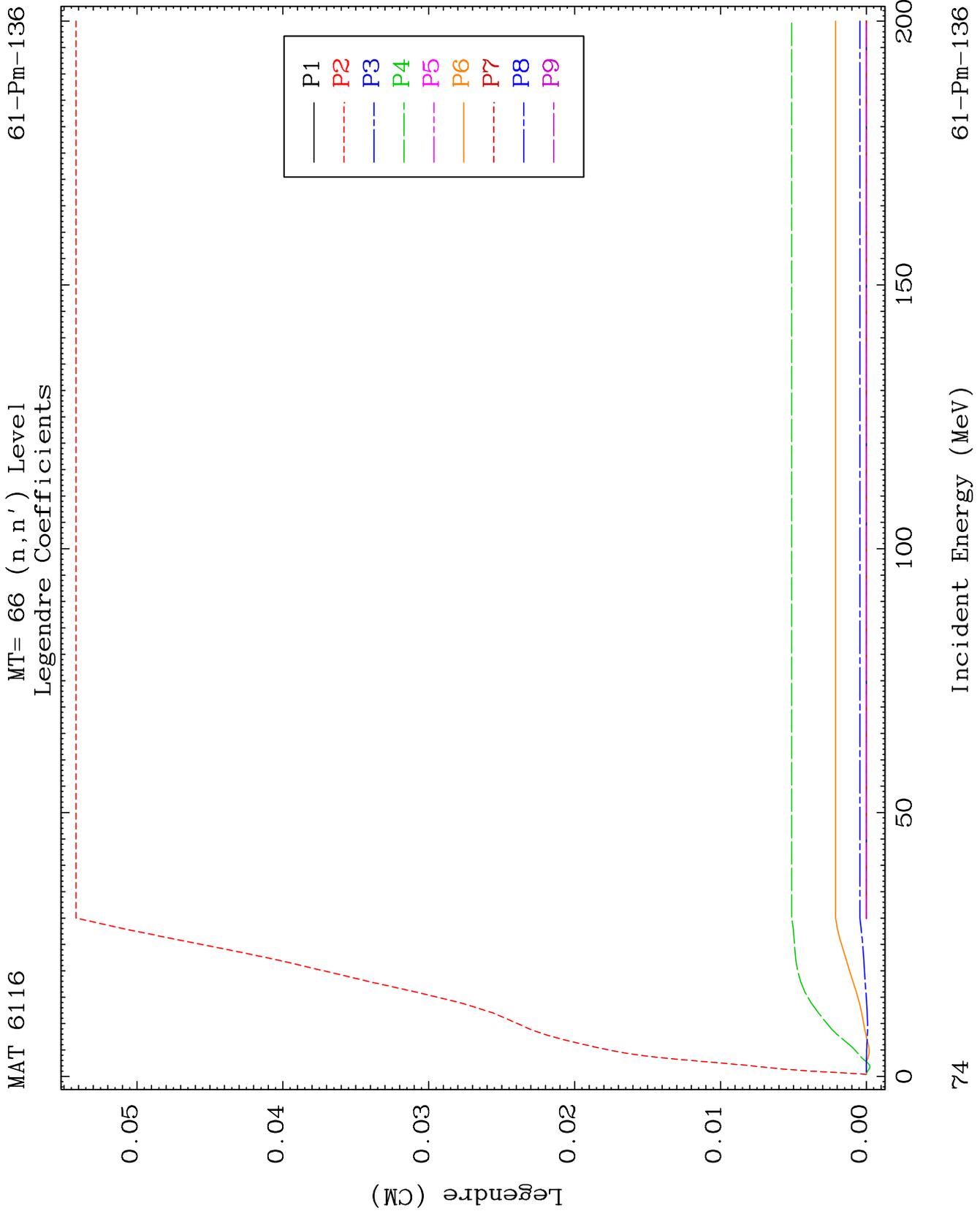
61-Pm-136



73

Incident Energy (MeV)

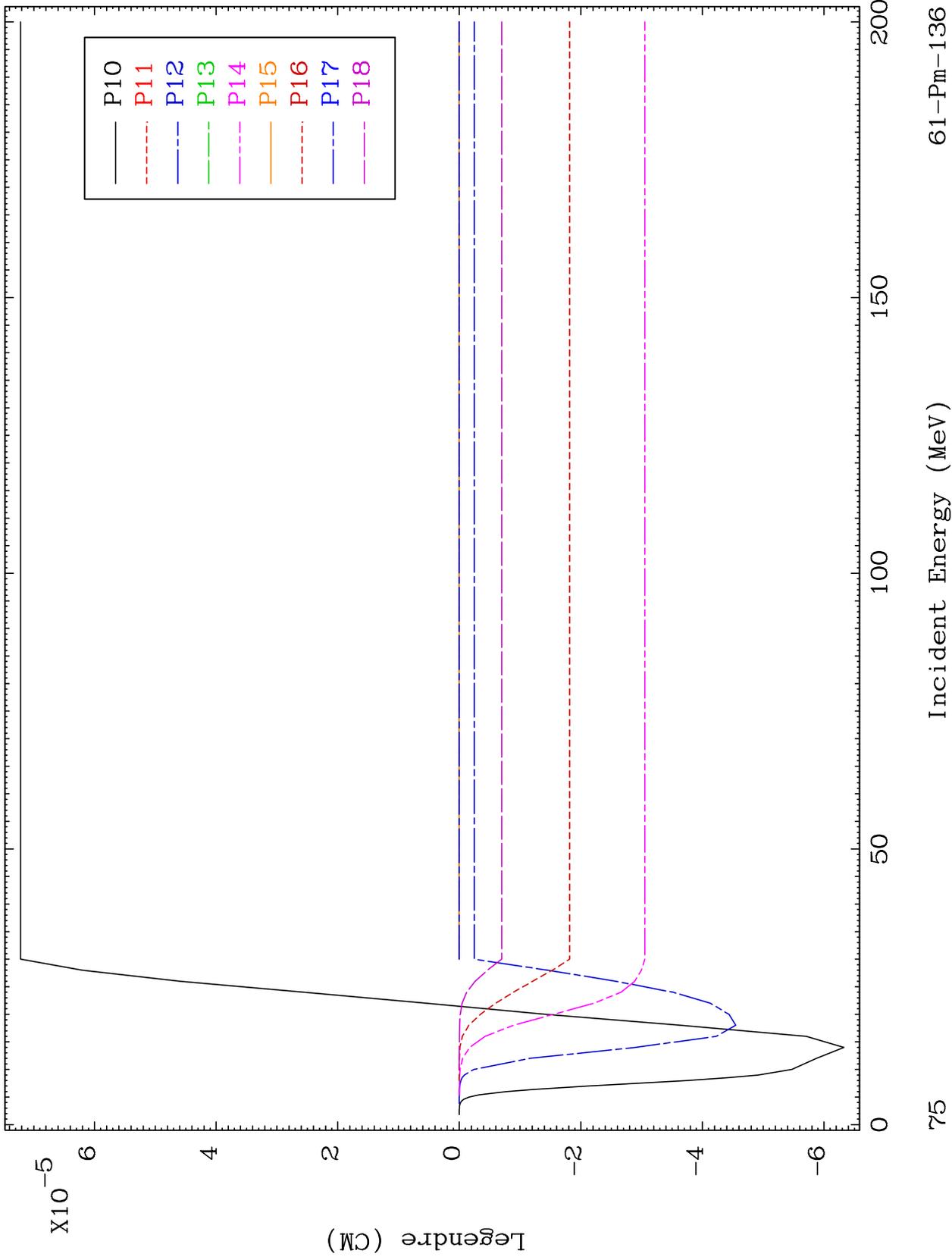
61-Pm-136



MAT 61116

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

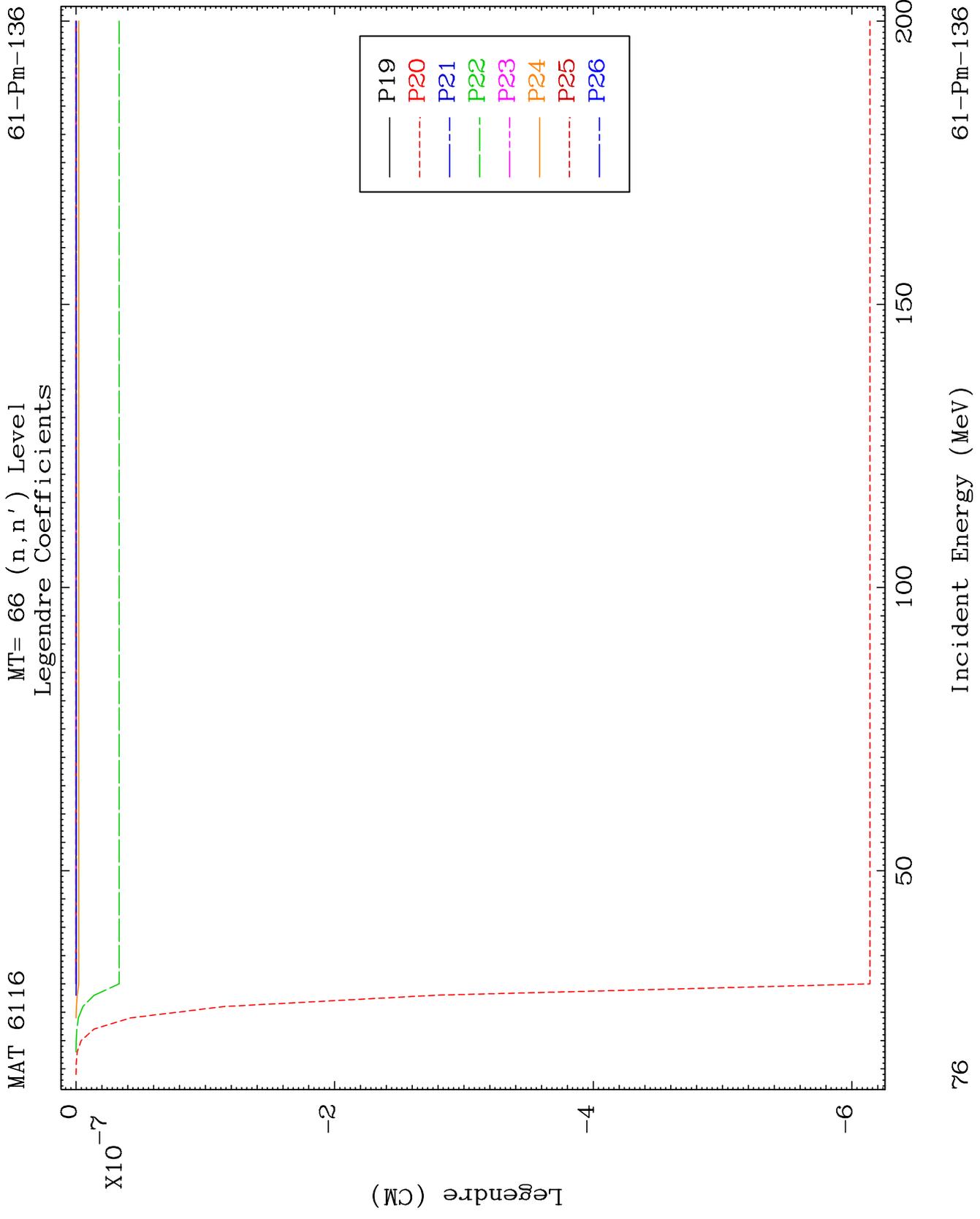
61-Pm-136



61-Pm-136

Incident Energy (MeV)

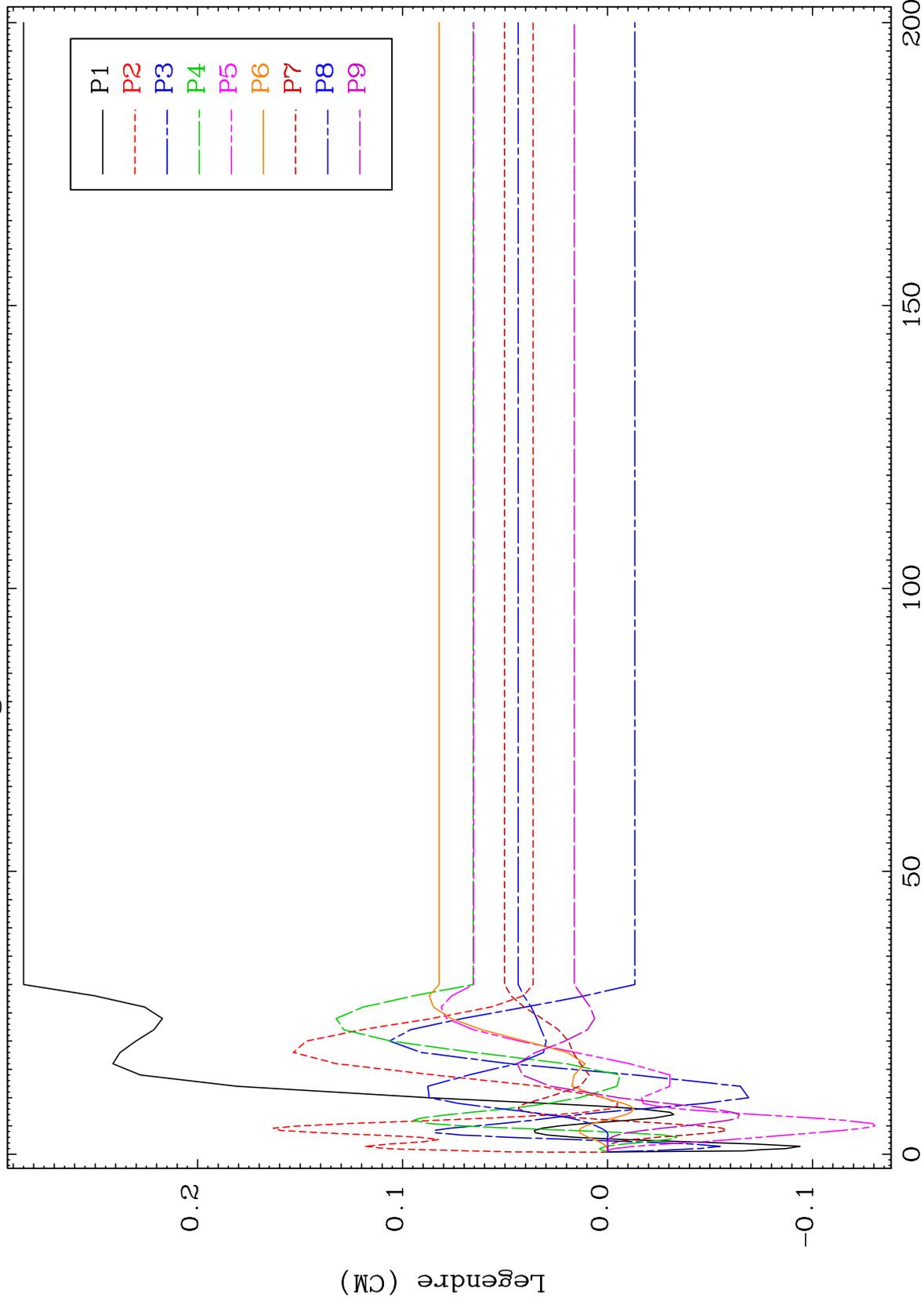
75



MAT 6116

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

61-Pm-136



77

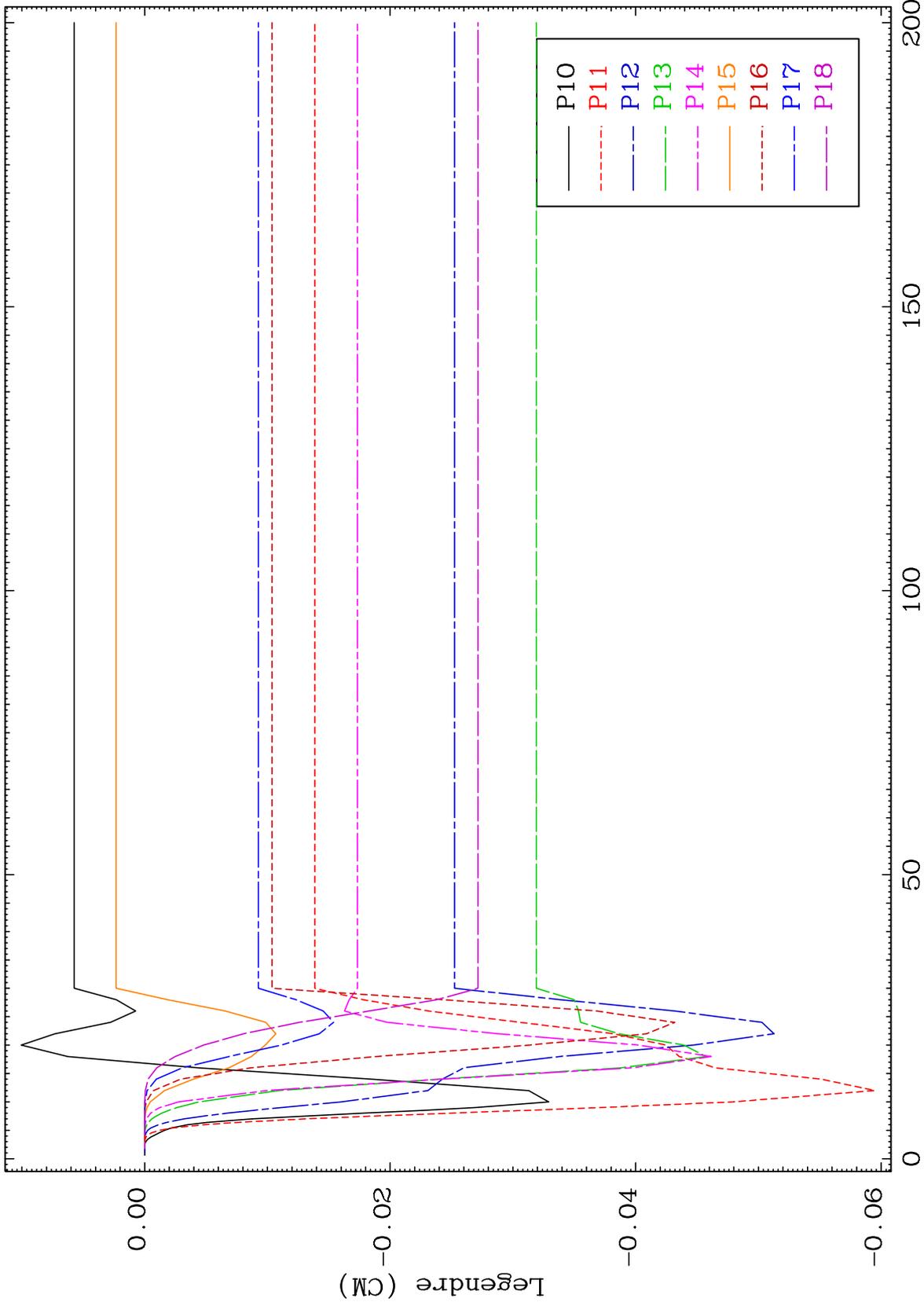
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

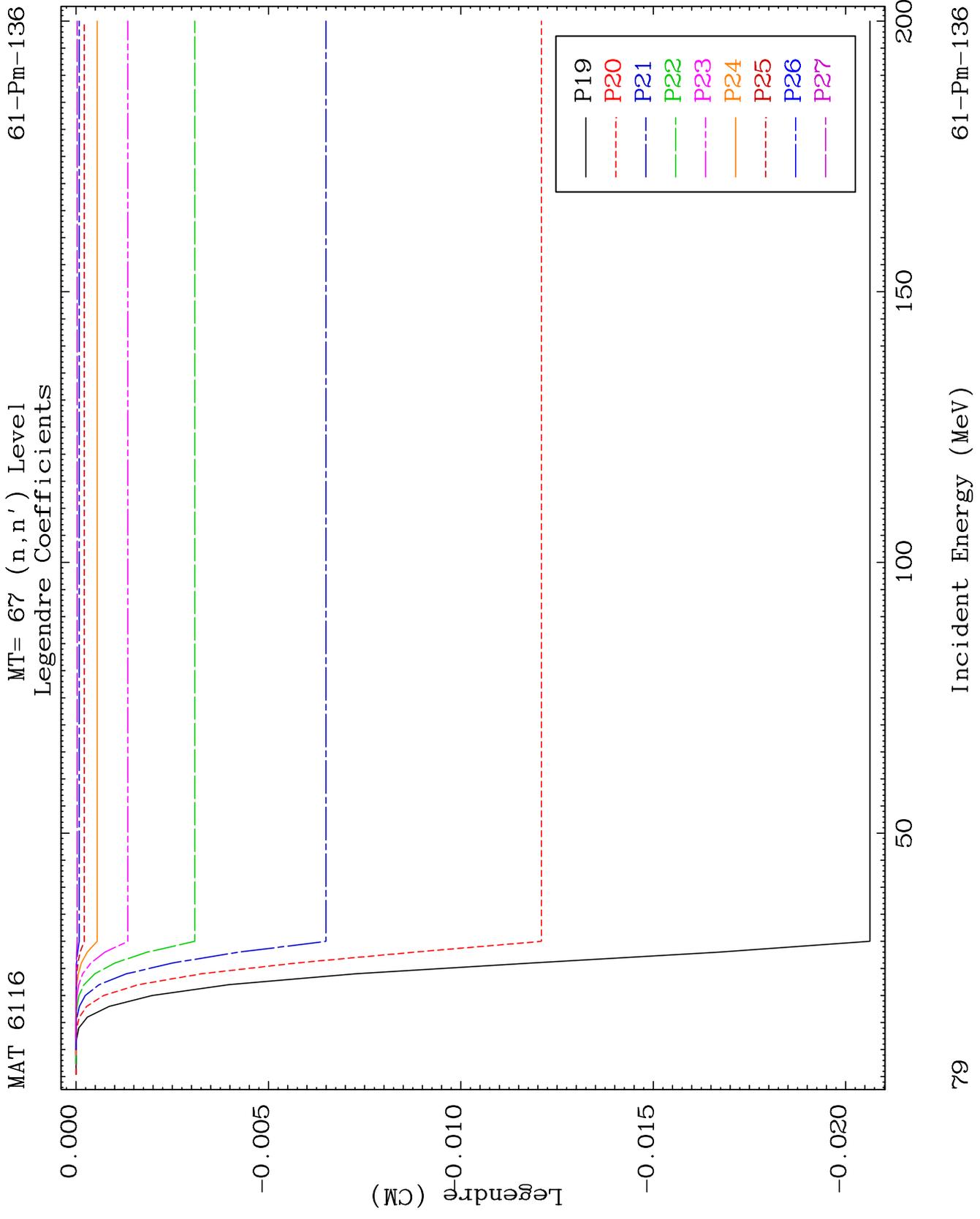
61-Pm-136

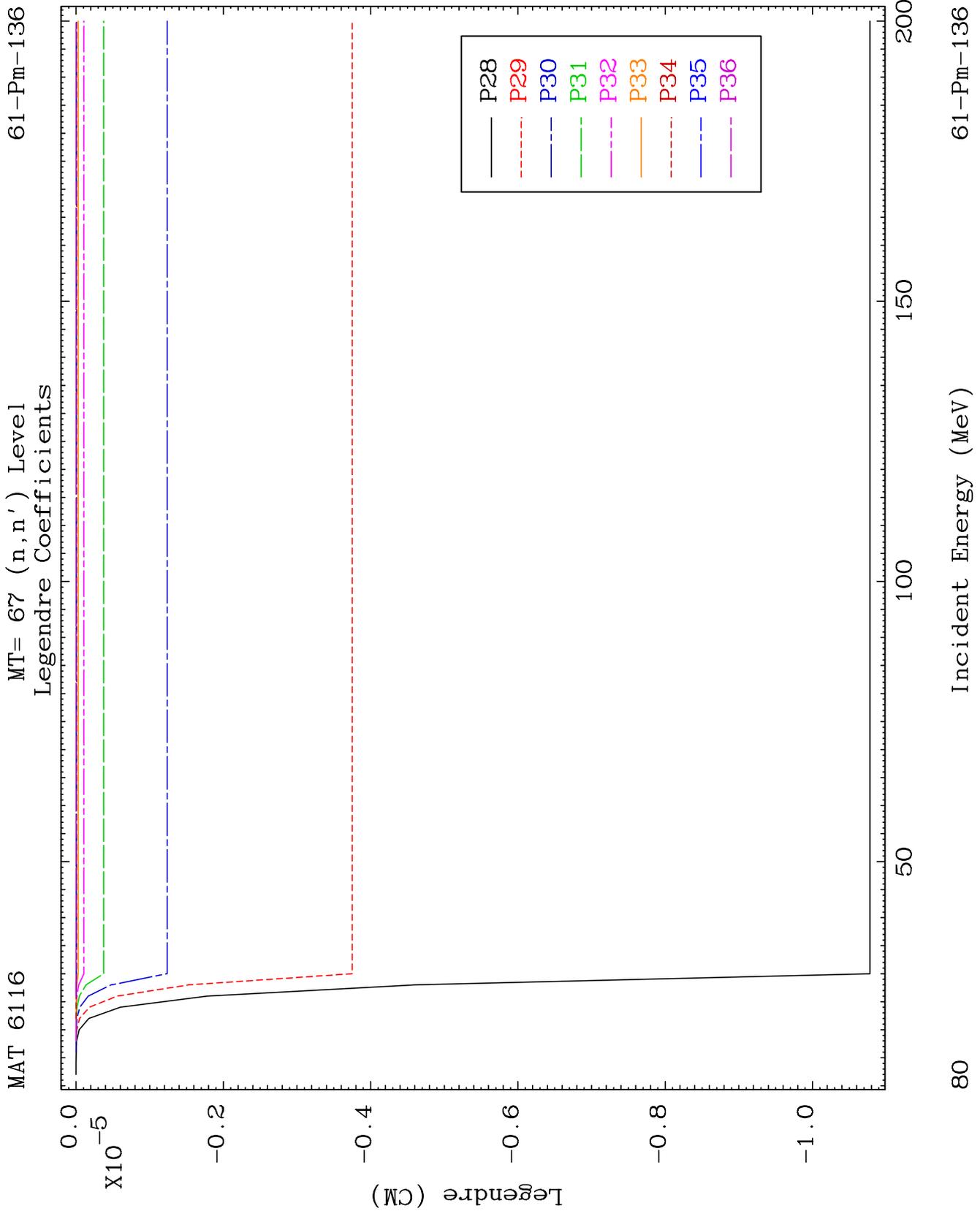


78

Incident Energy (MeV)

61-Pm-136

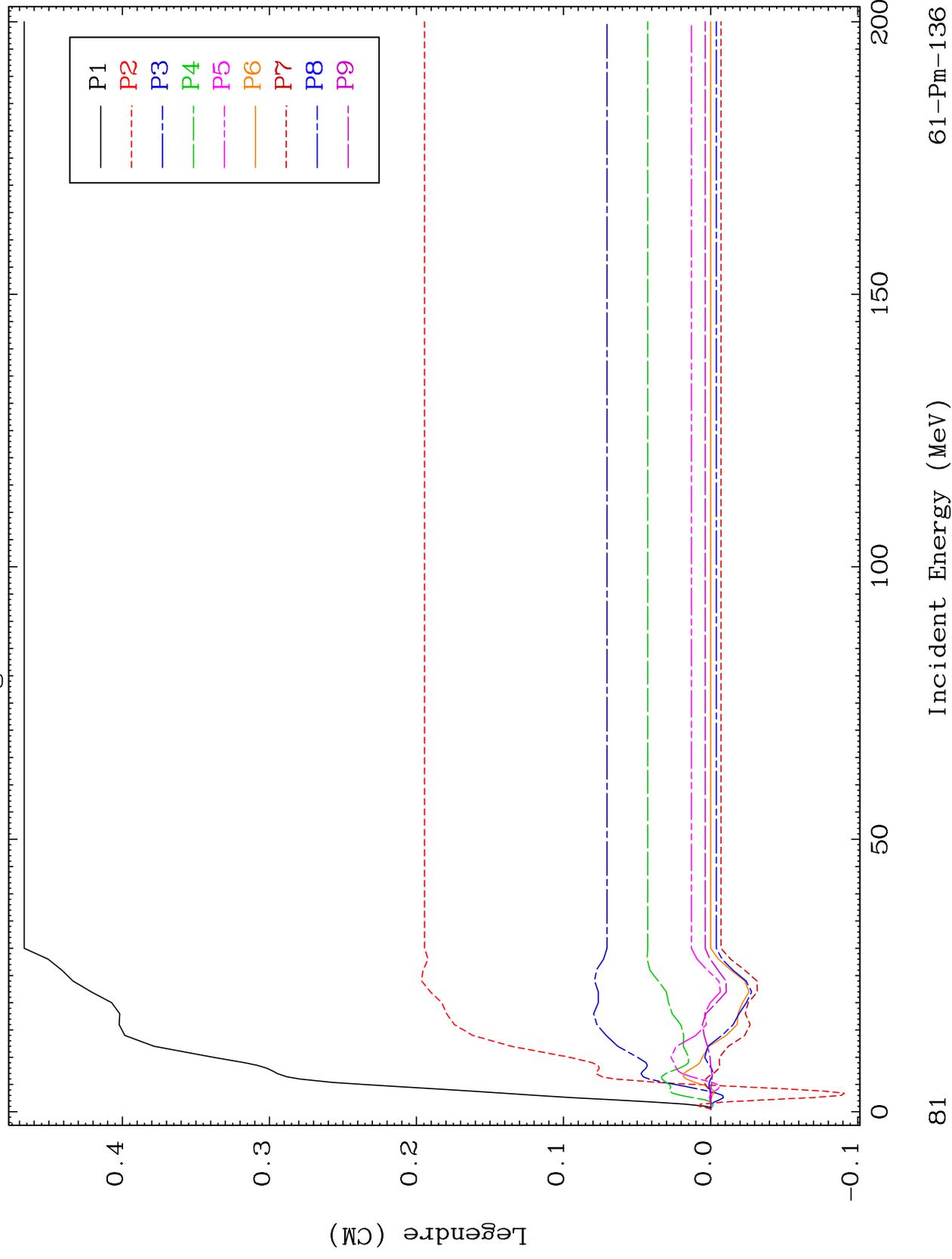




MAT 6116

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

61-Pm-136



81

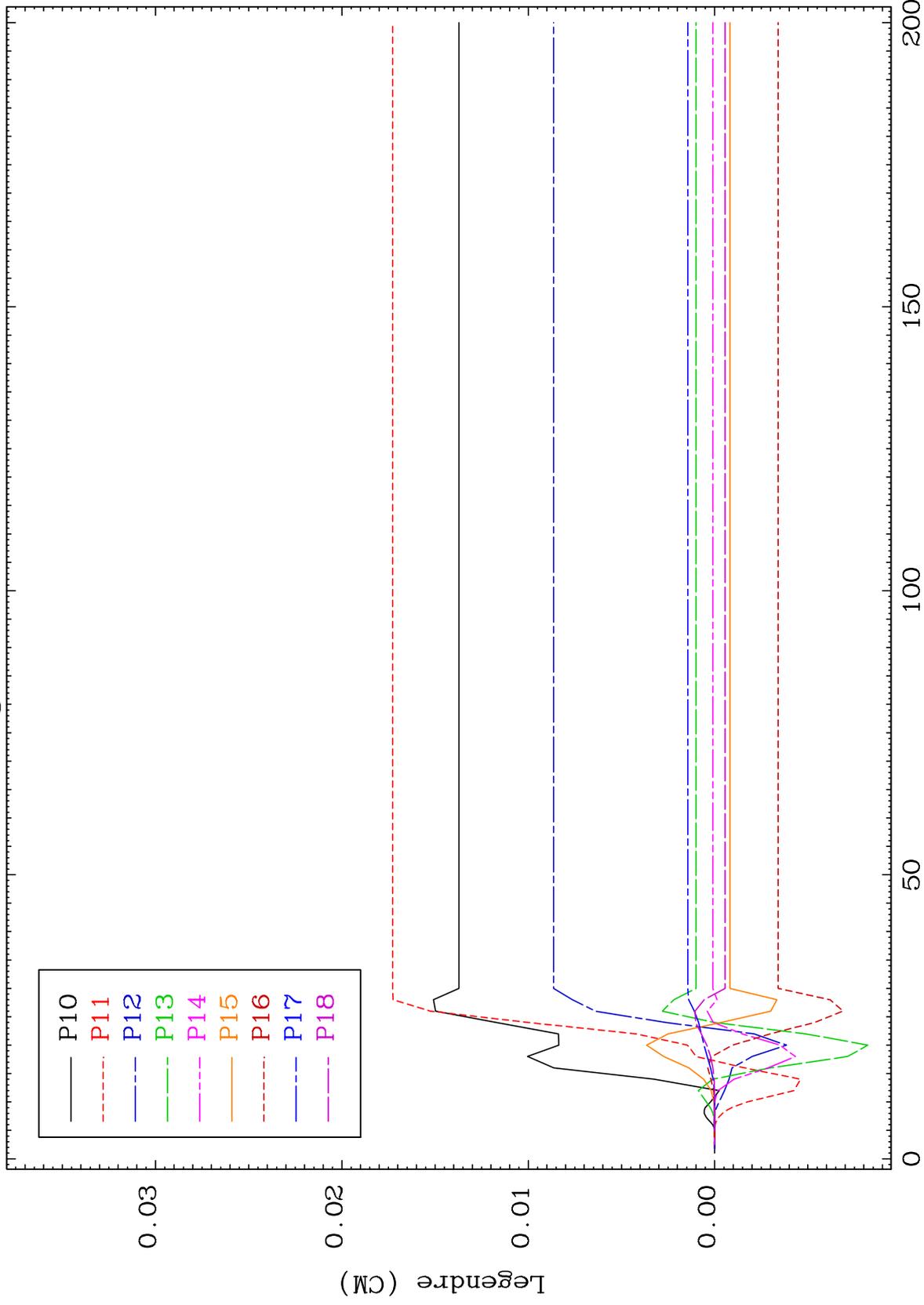
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

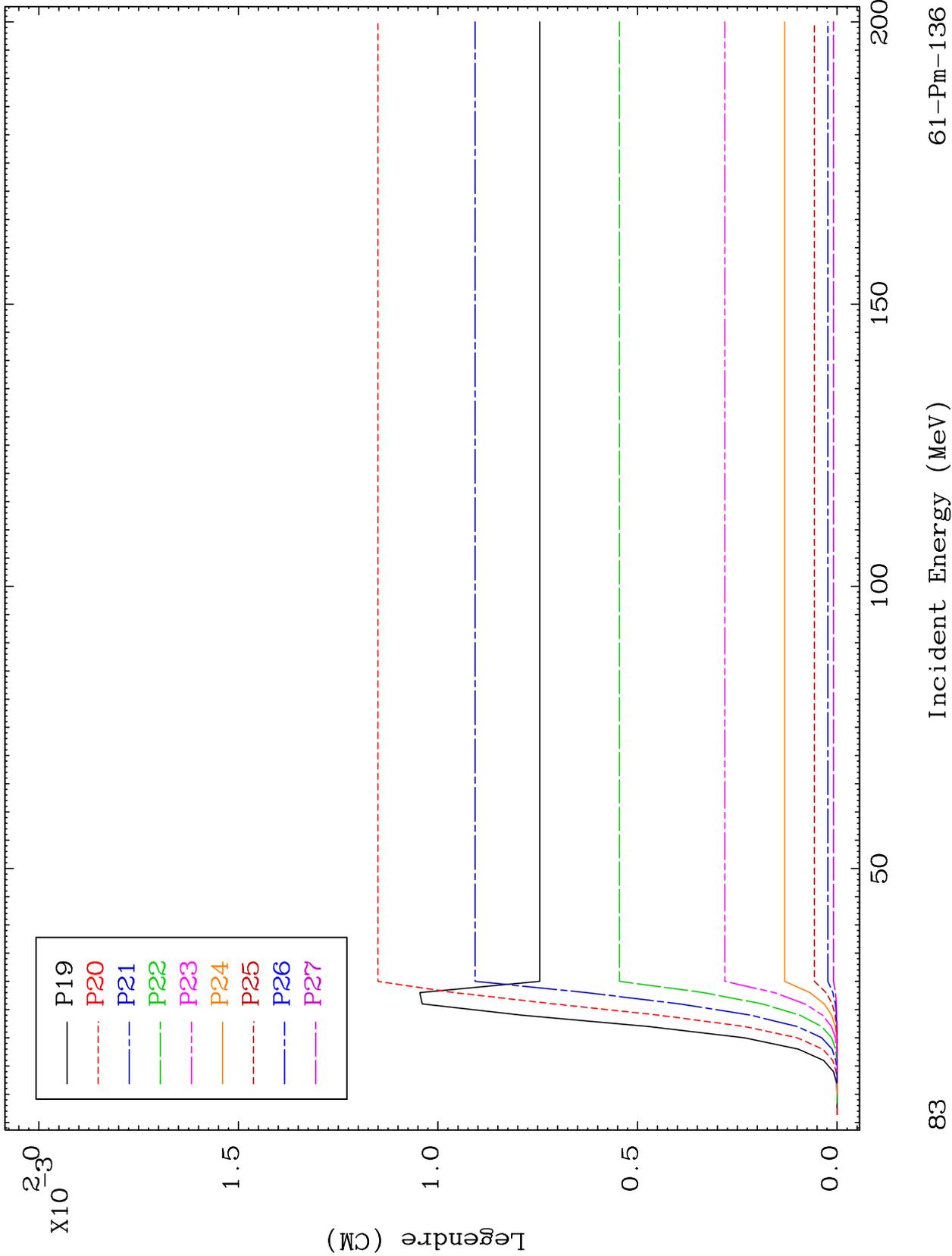
61-Pm-136



82

Incident Energy (MeV)

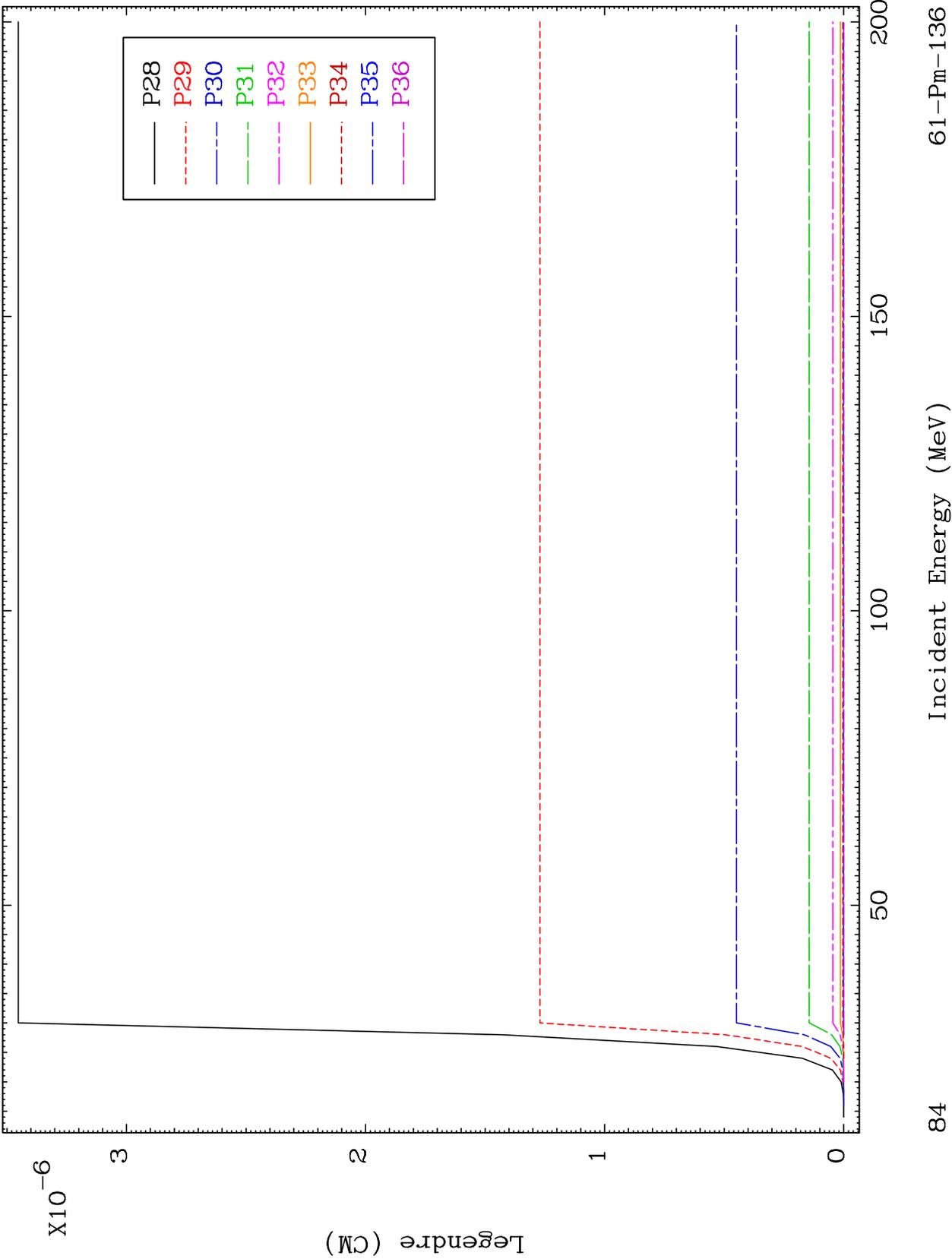
61-Pm-136



MAT 6116

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

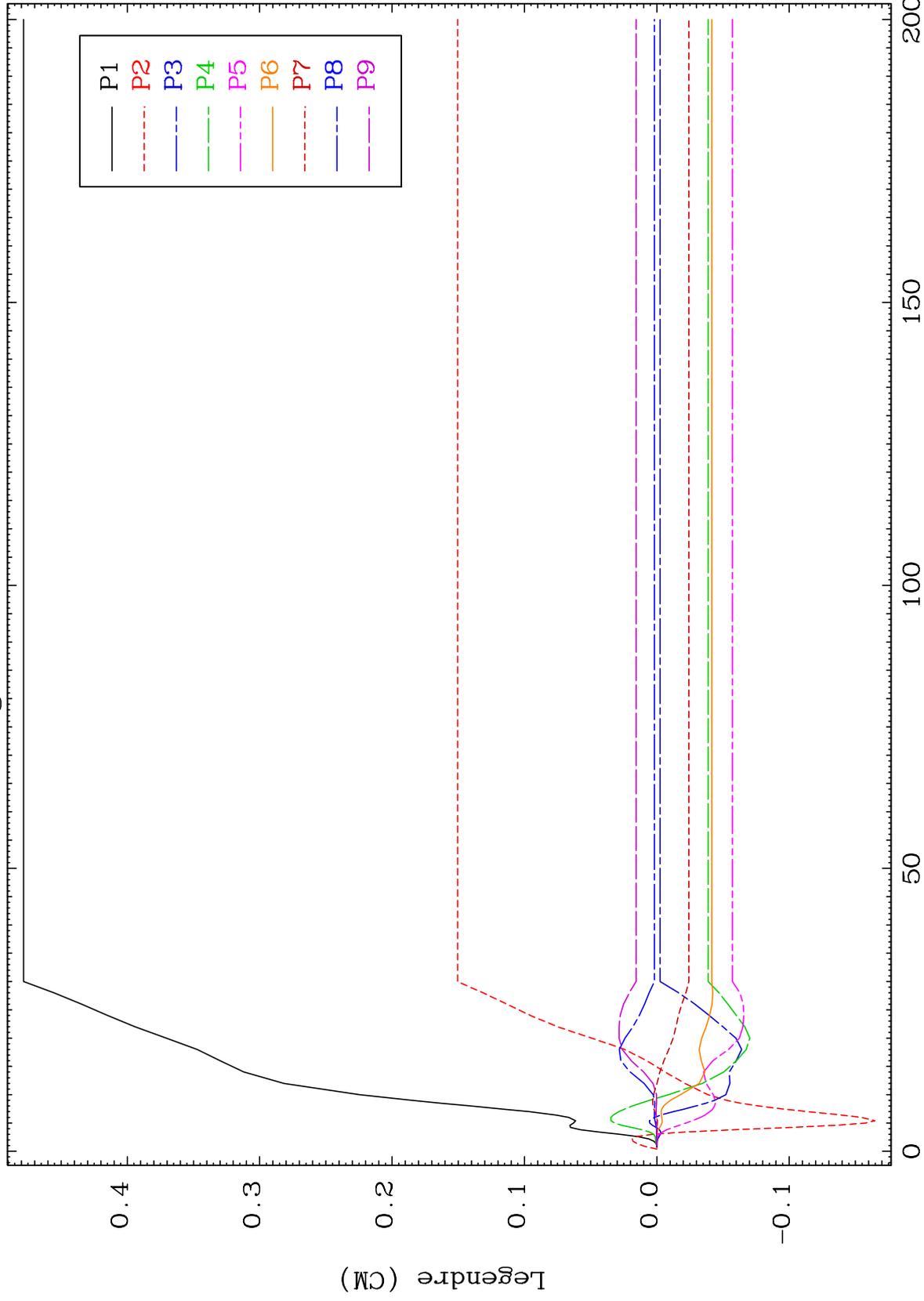
61-Pm-136



MAT 6116

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

61-Pm-136



61-Pm-136

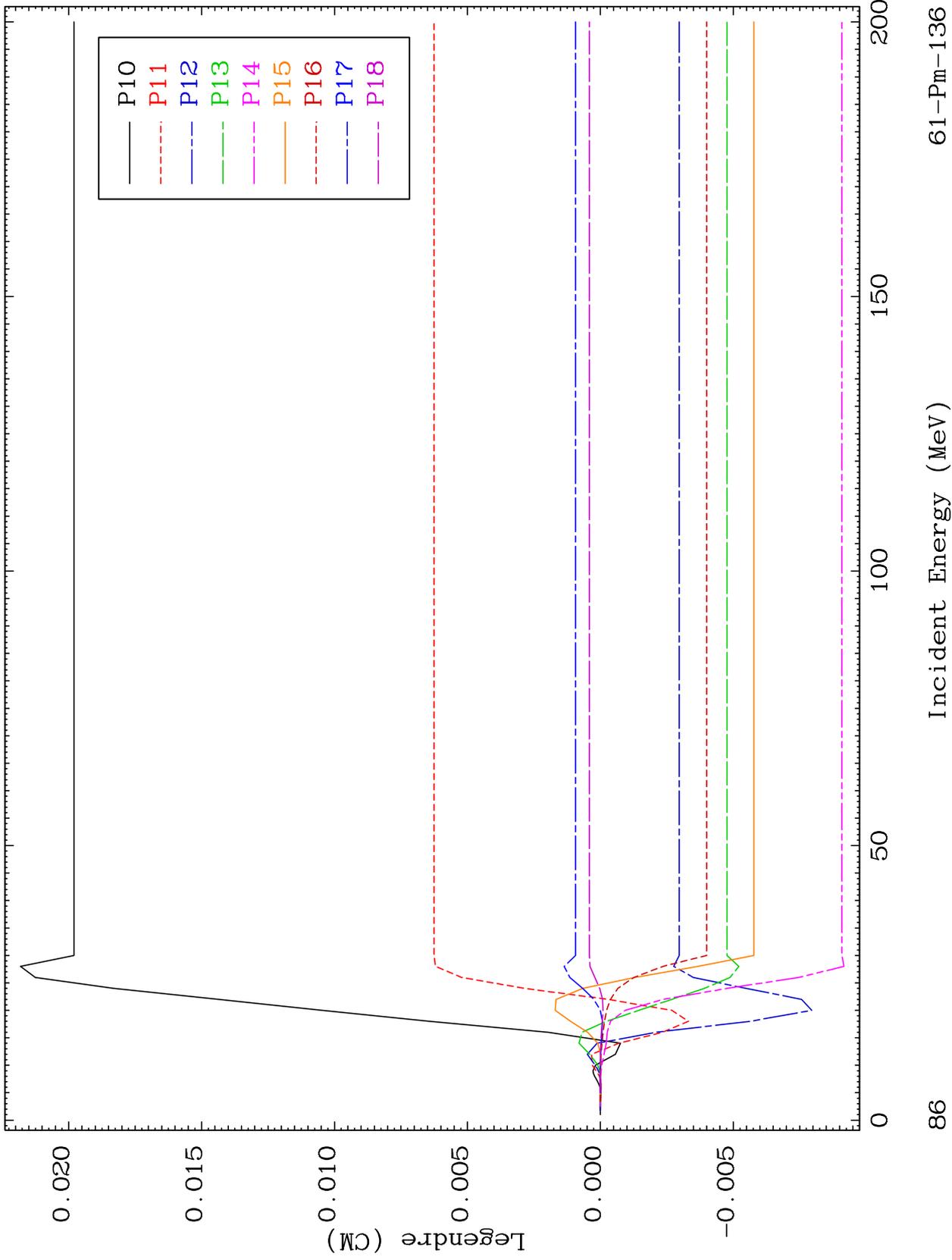
Incident Energy (MeV)

85

MAT 61116

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

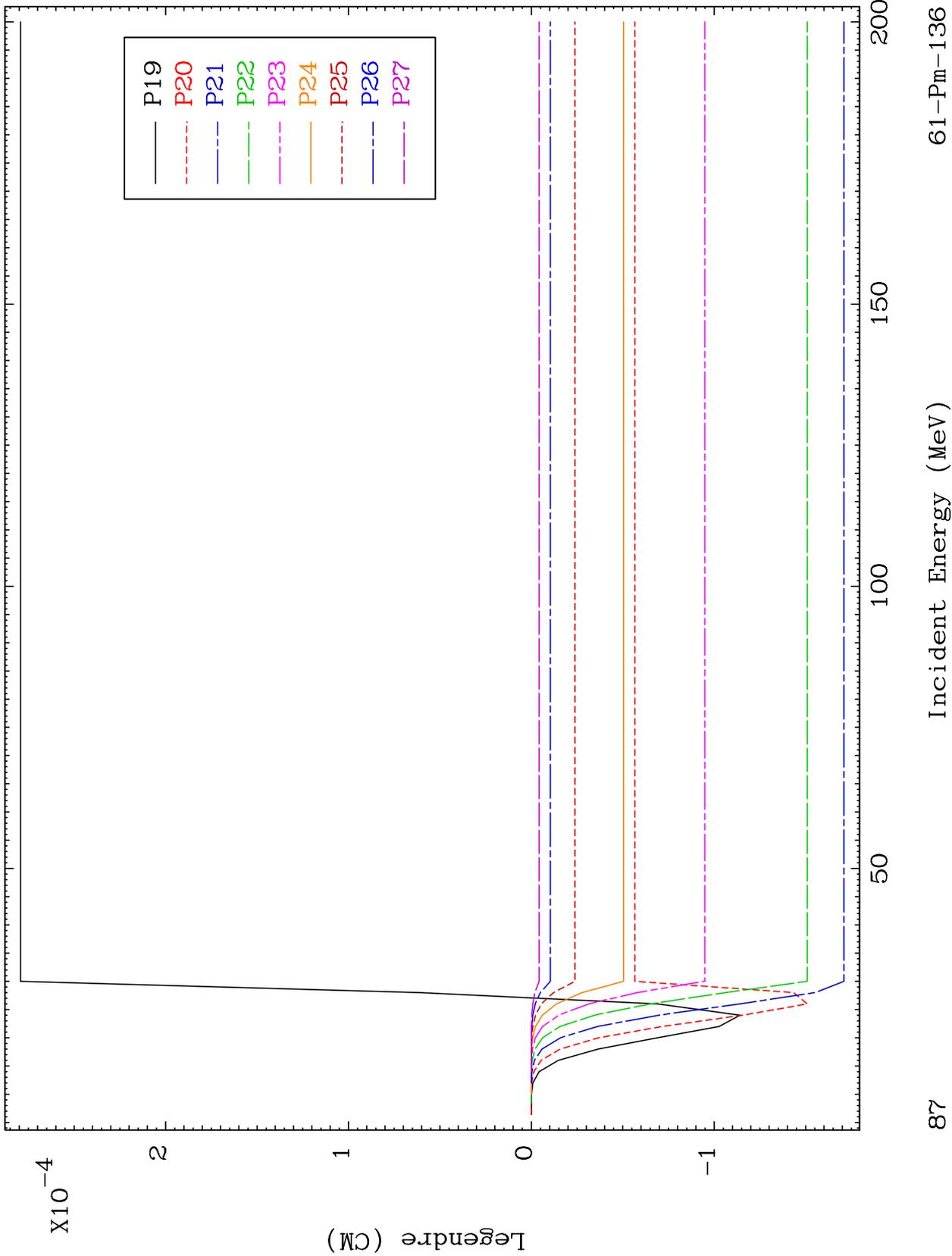
61-Pm-136

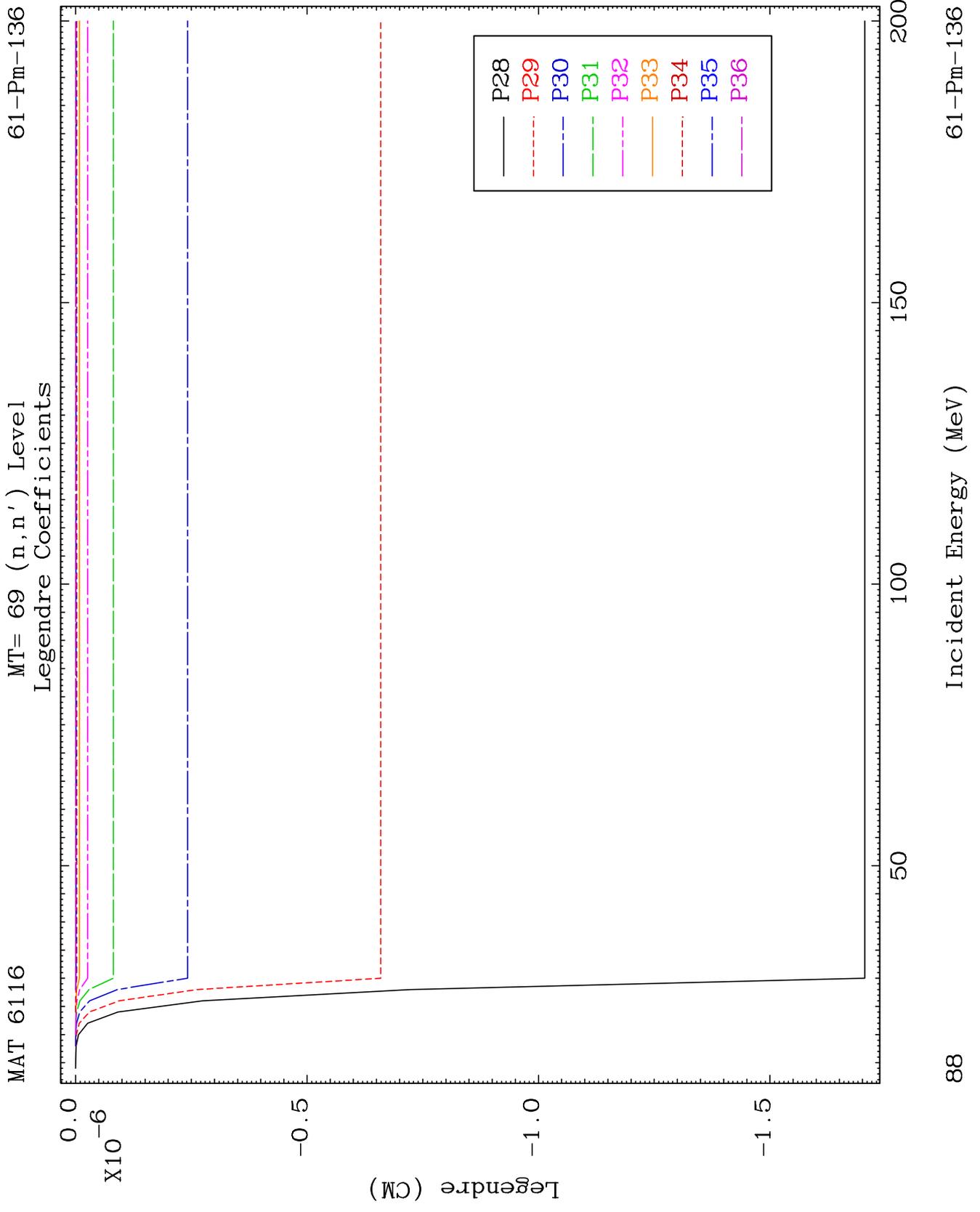


86

Incident Energy (MeV)

61-Pm-136

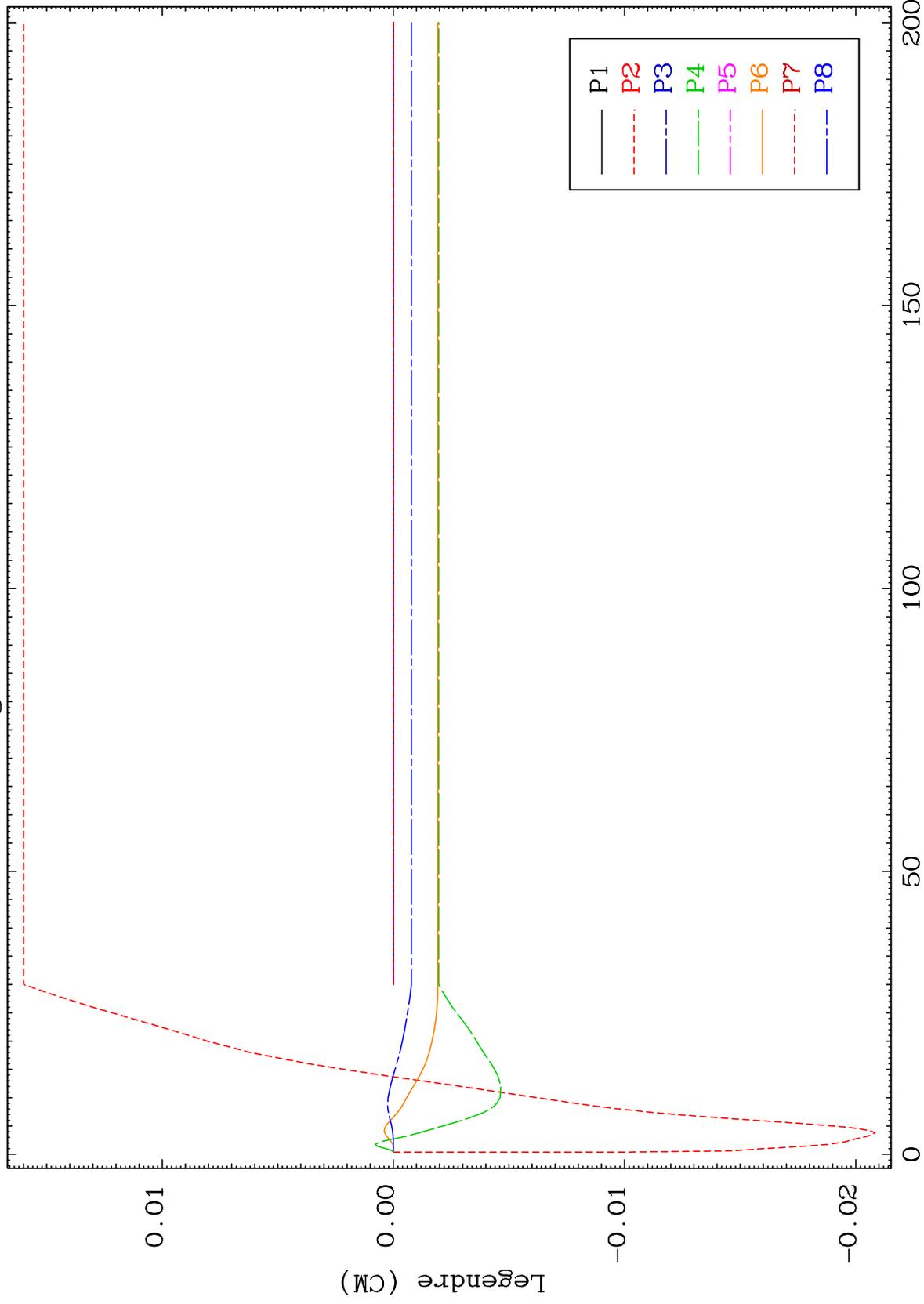




MAT 6116

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

61-Pm-136



61-Pm-136

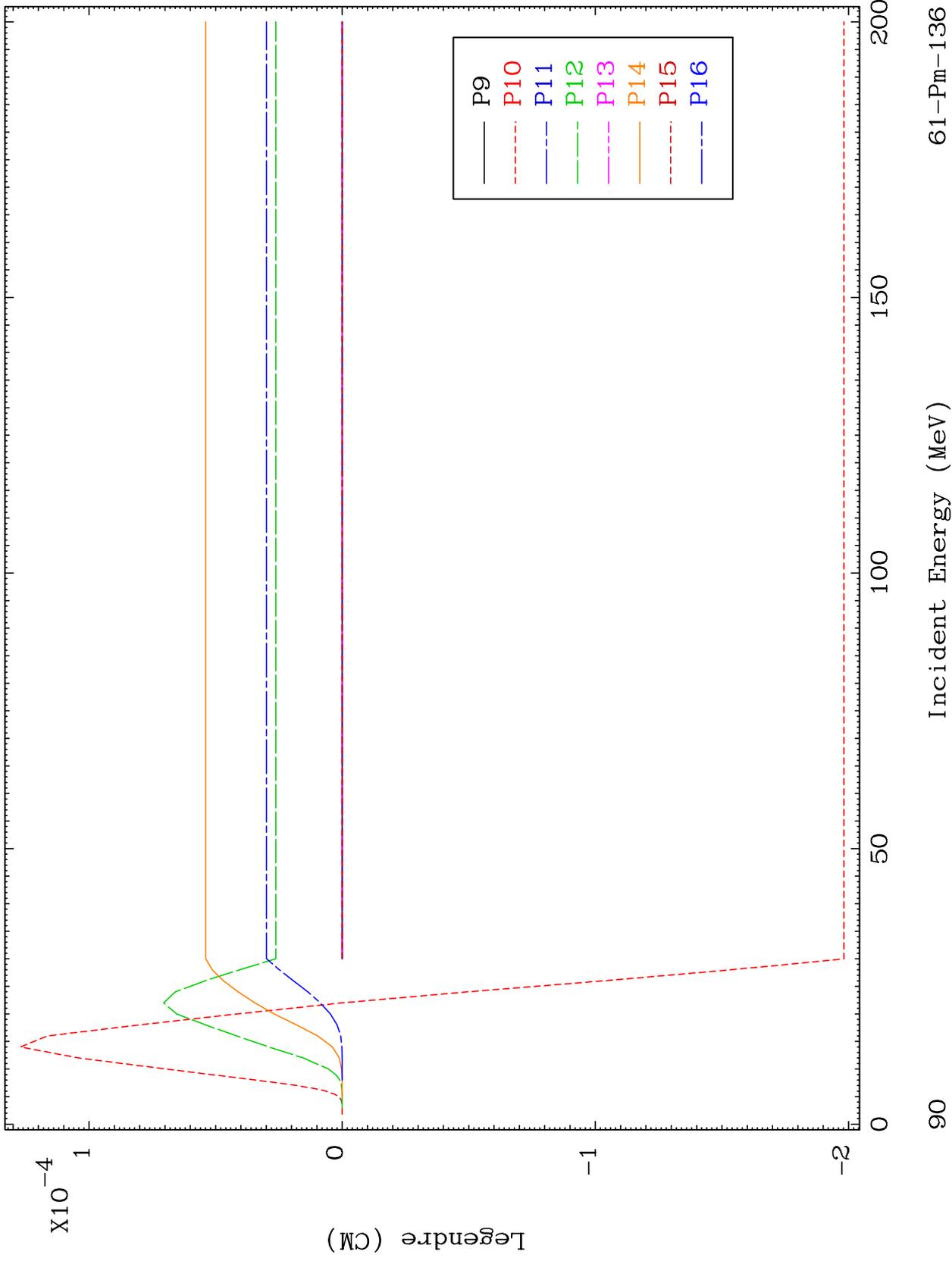
Incident Energy (MeV)

89

MAT 6116

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

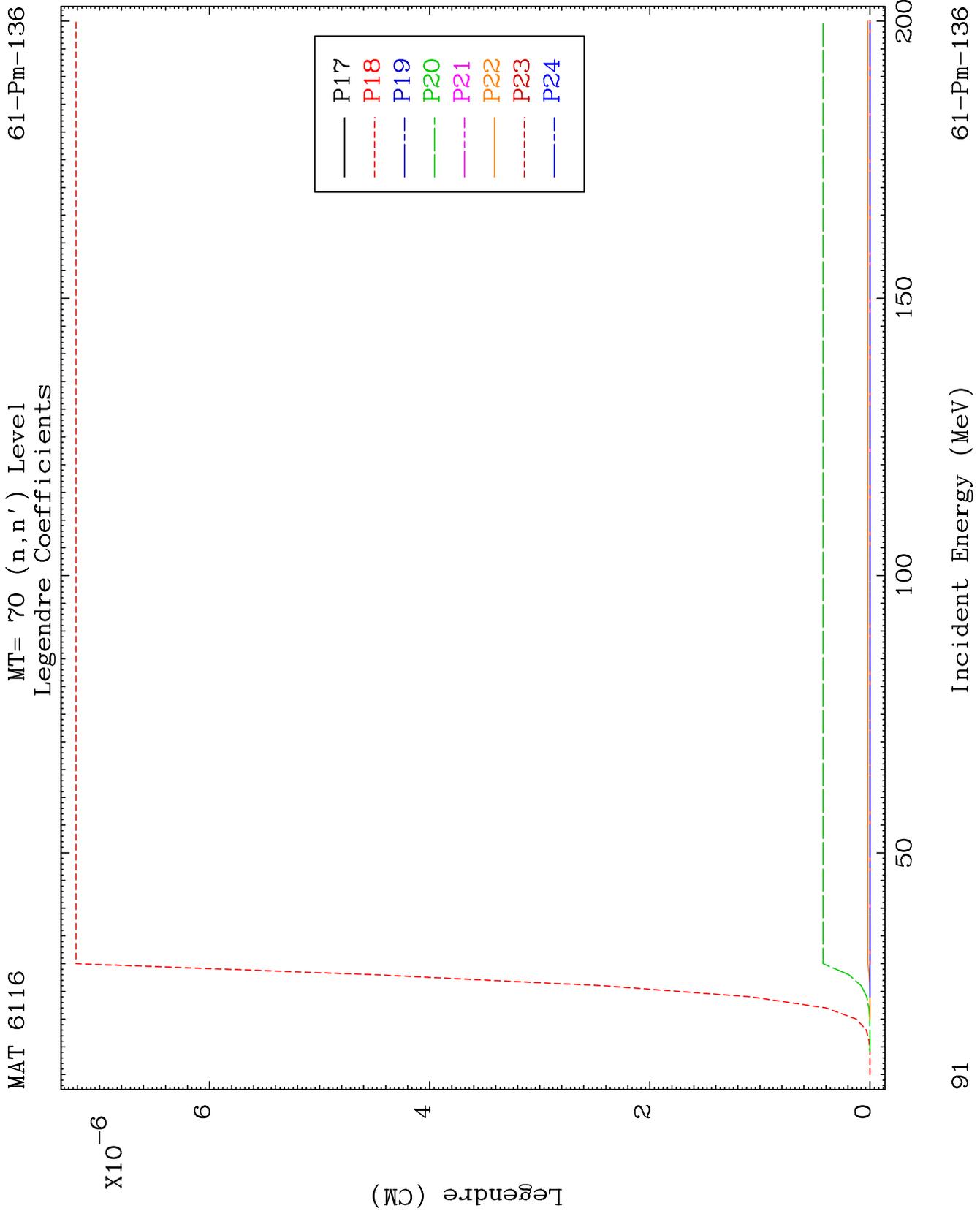
61-Pm-136



61-Pm-136

Incident Energy (MeV)

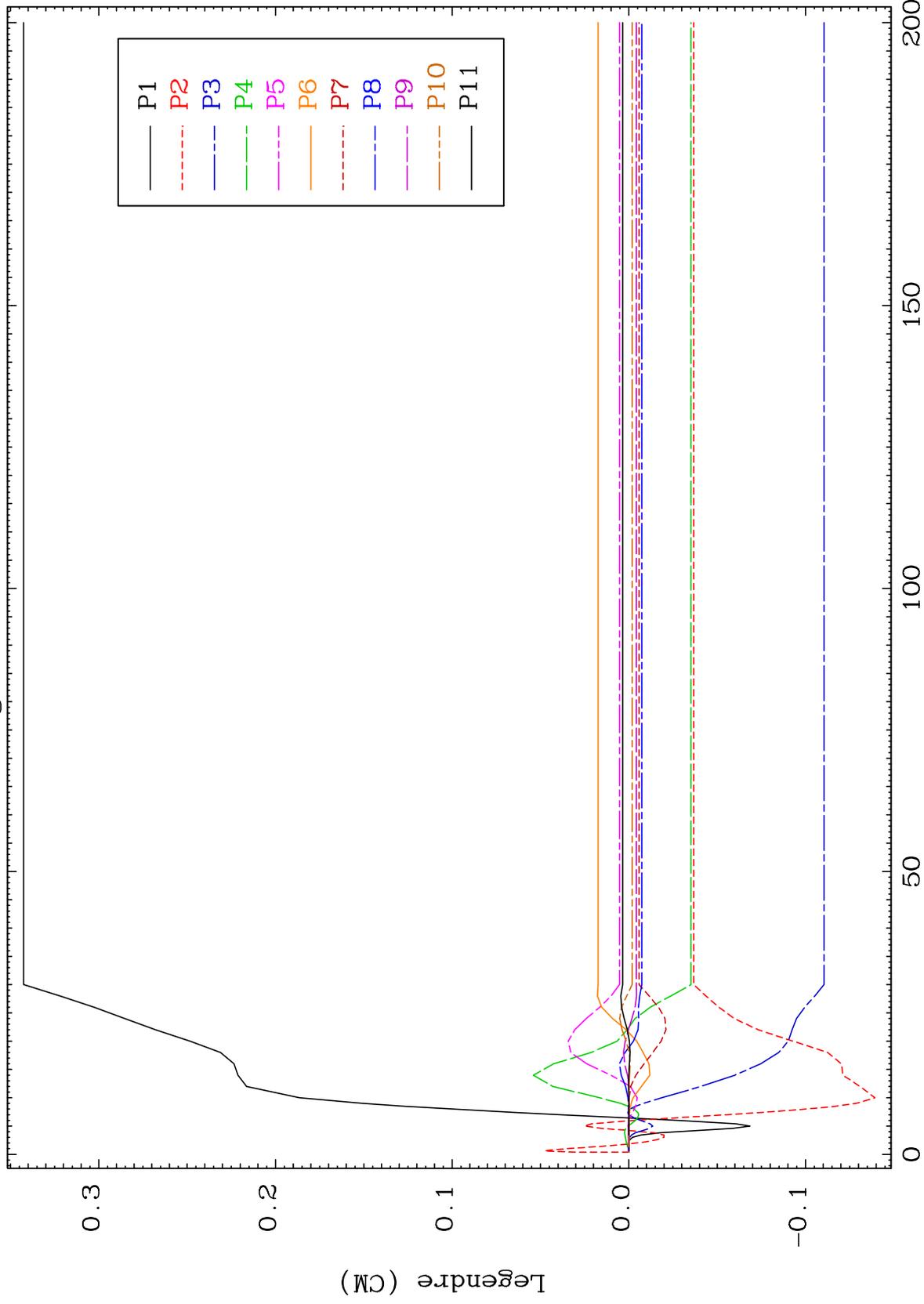
90



MAT 6116

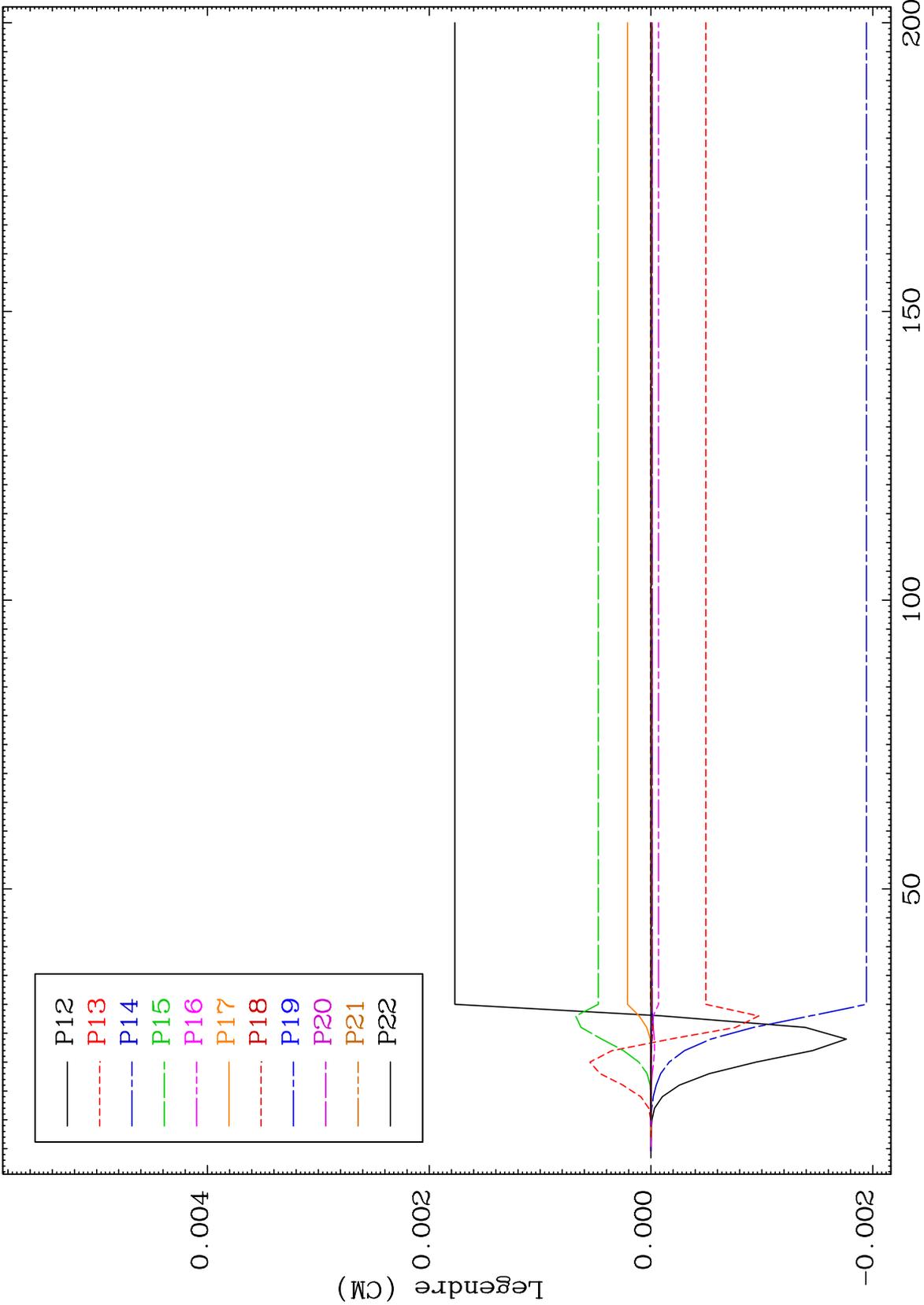
MT= 71 (n,n') Level
Legendre Coefficients

61-Pm-136



92

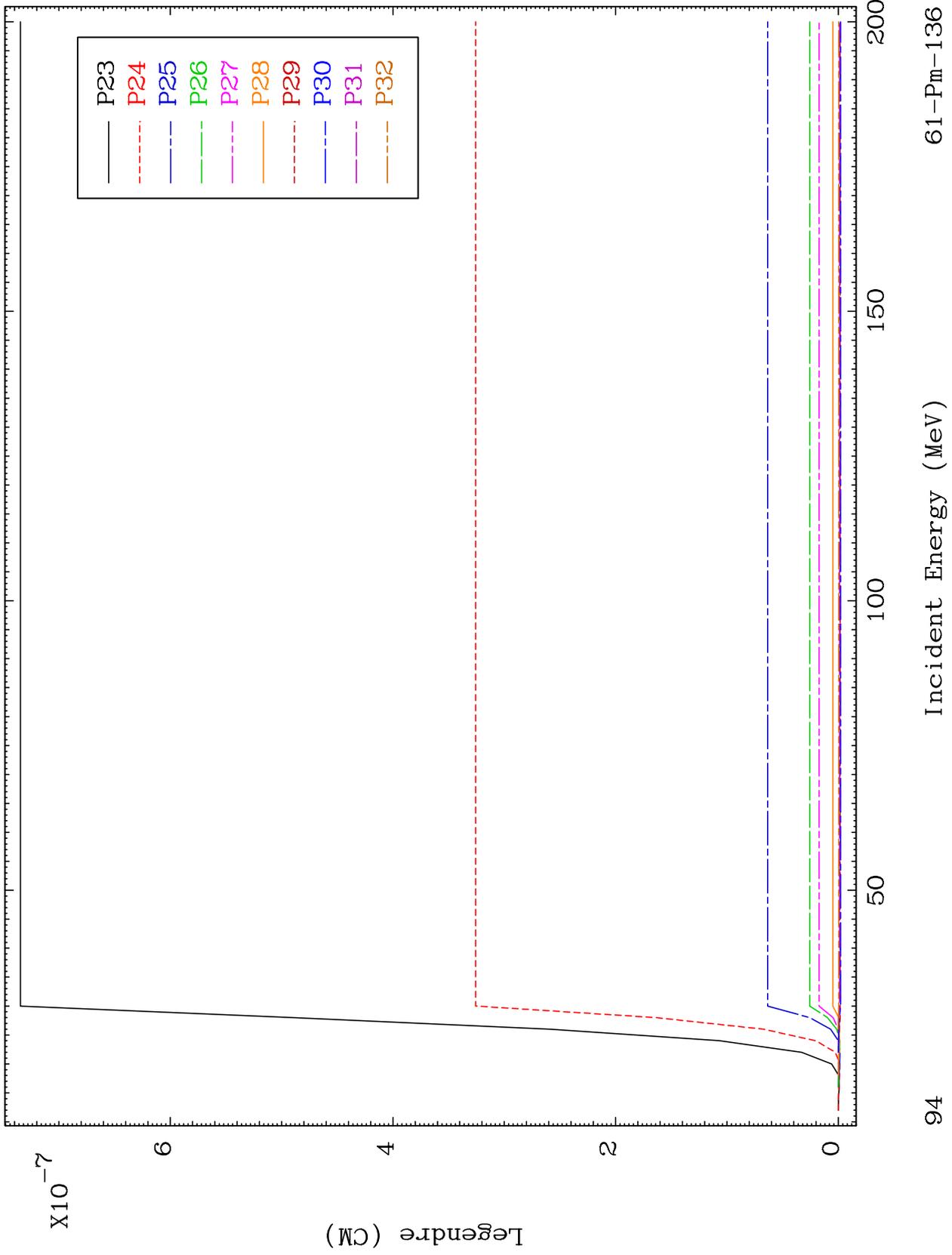
61-Pm-136



MAT 6116

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

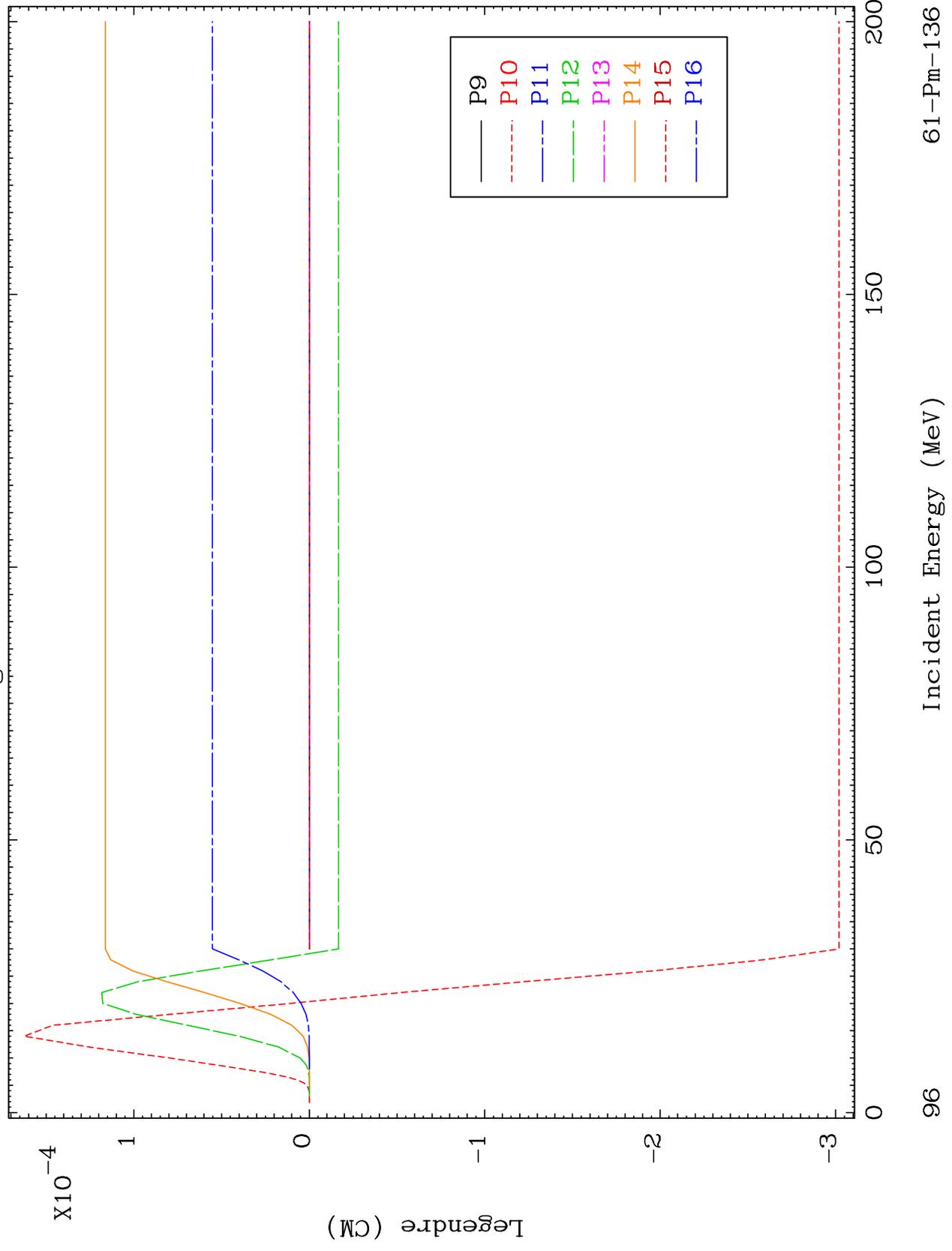
61-Pm-136



MAT 6116

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

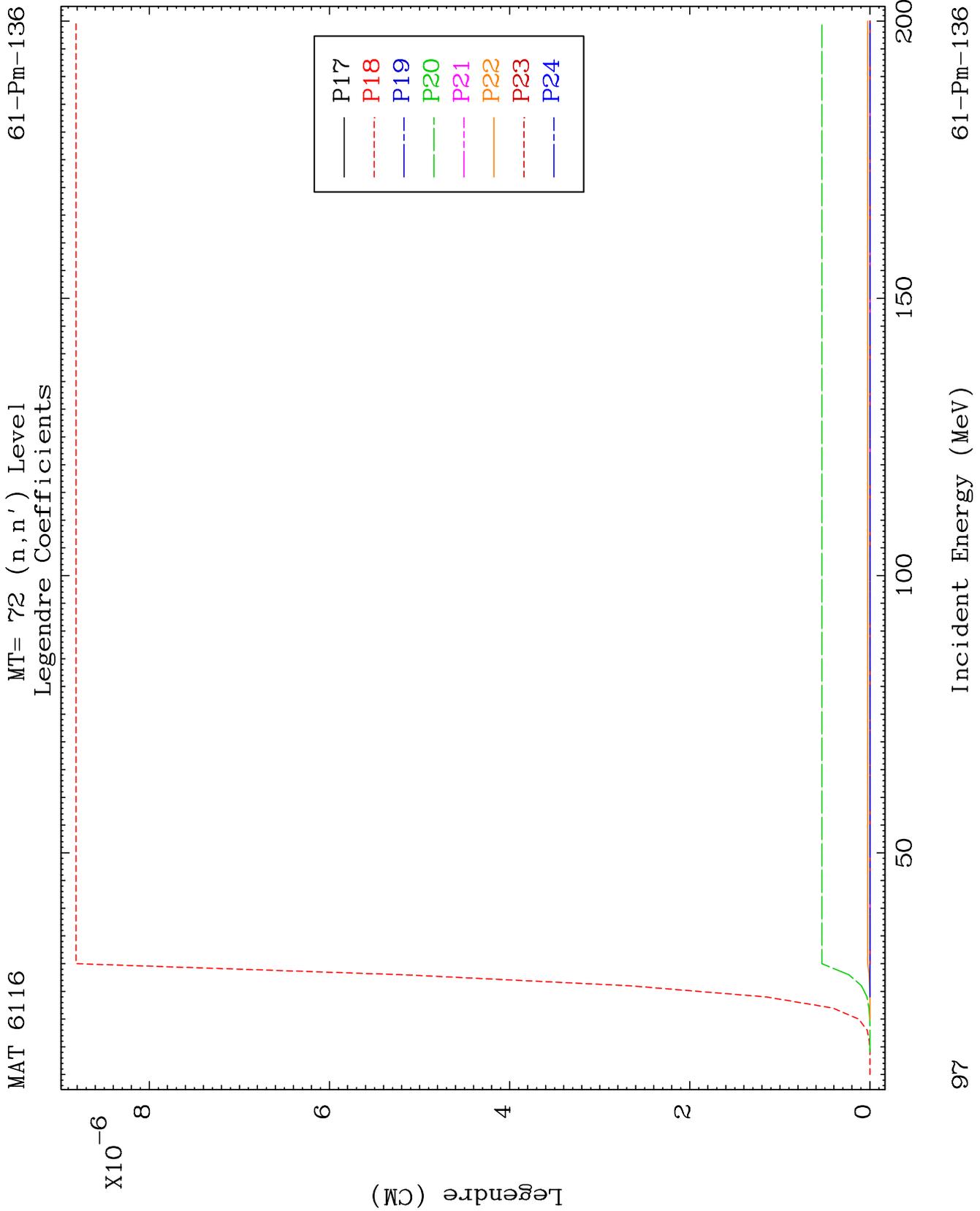
61-Pm-136



61-Pm-136

Incident Energy (MeV)

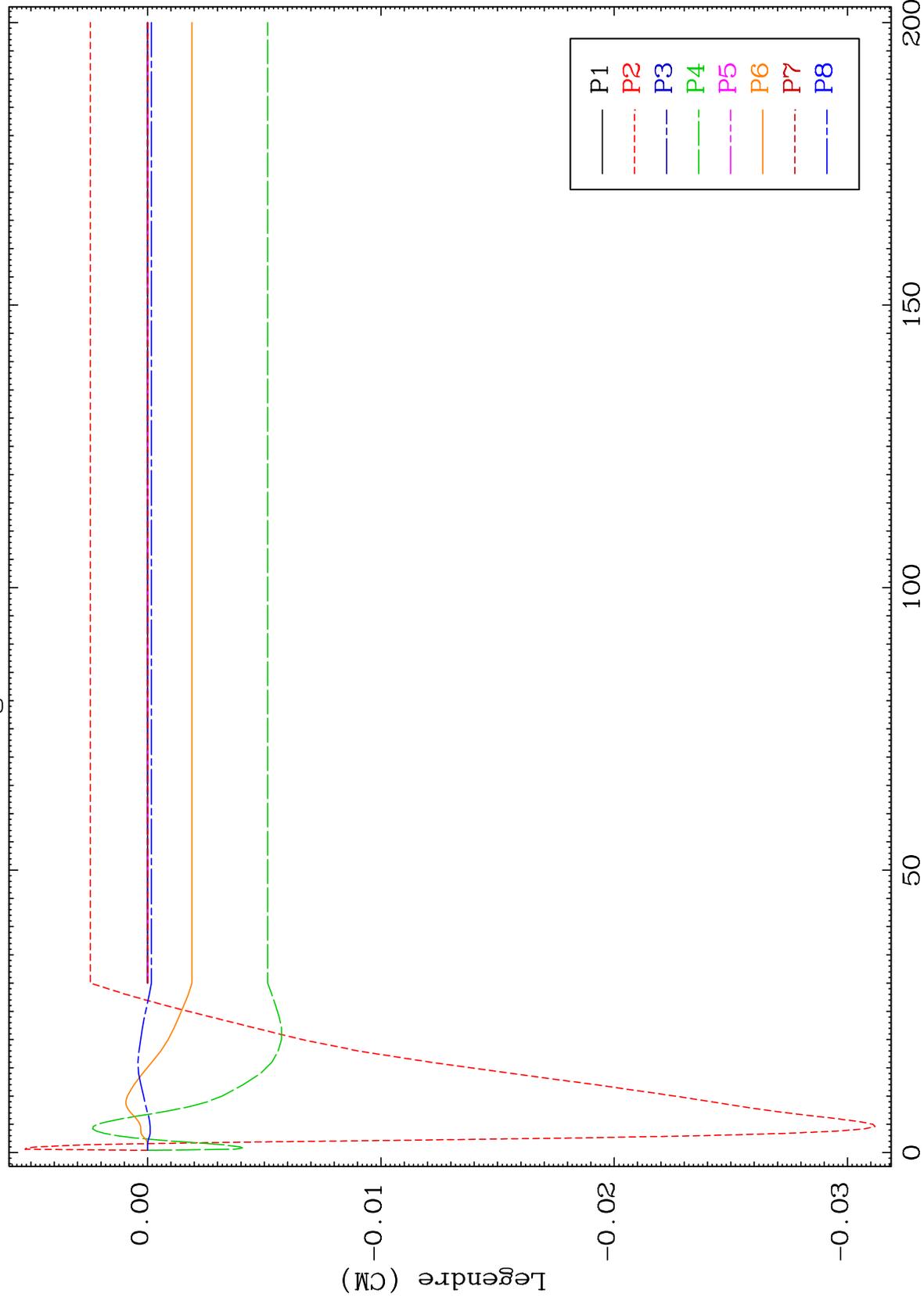
96



MAT 6116

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

61-Pm-136



98

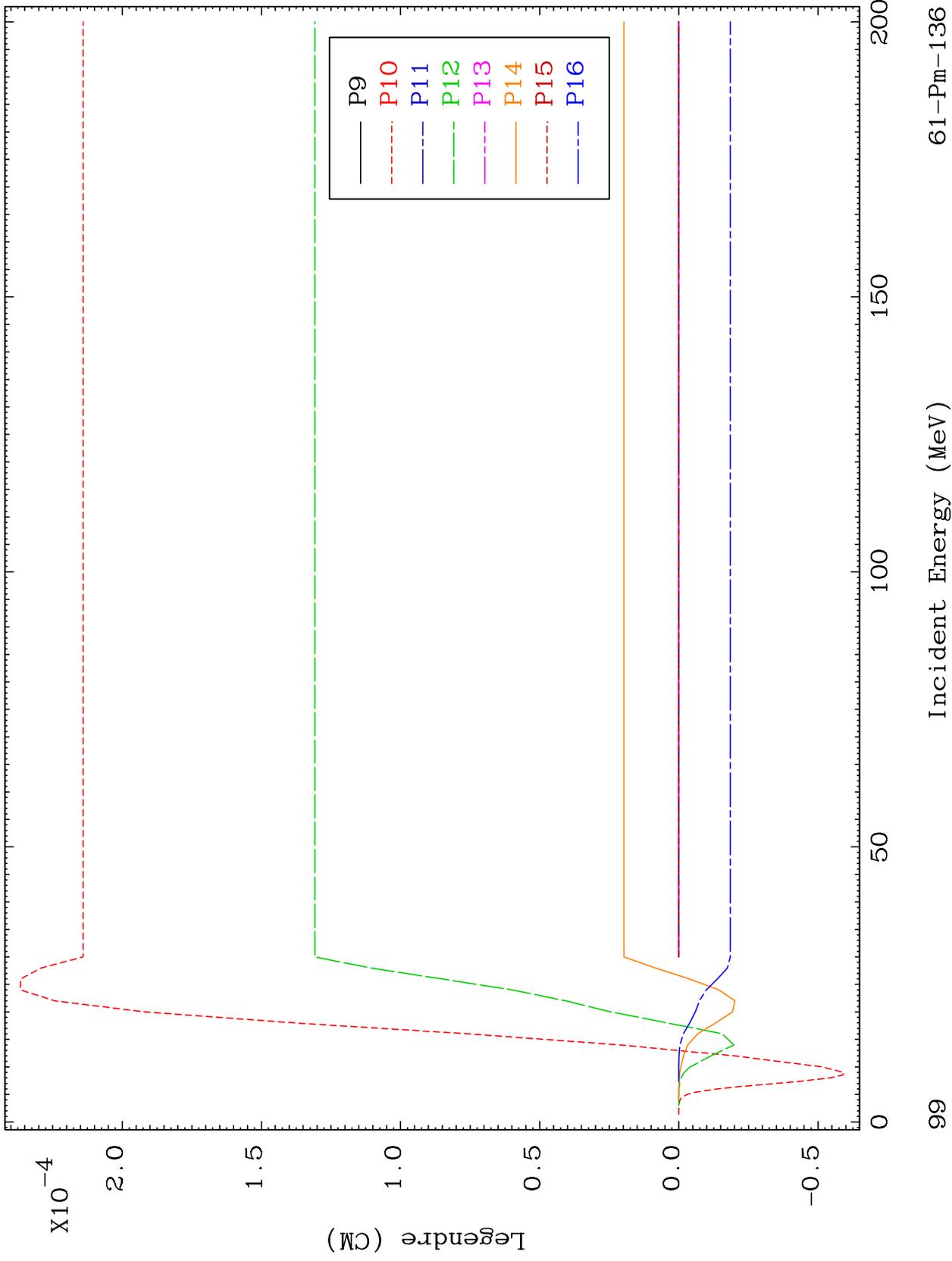
Incident Energy (MeV)

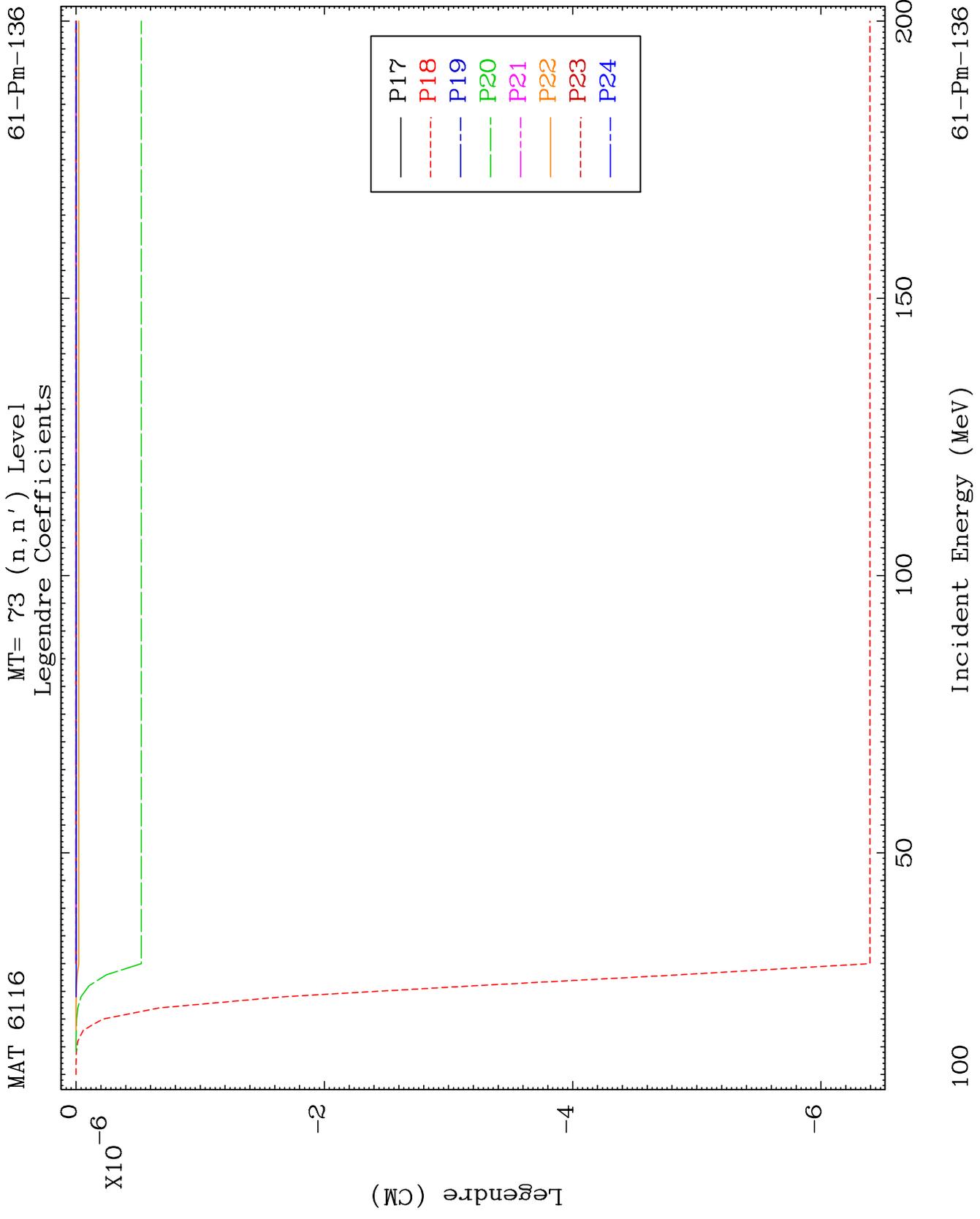
61-Pm-136

MAT 6116

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

61-Pm-136

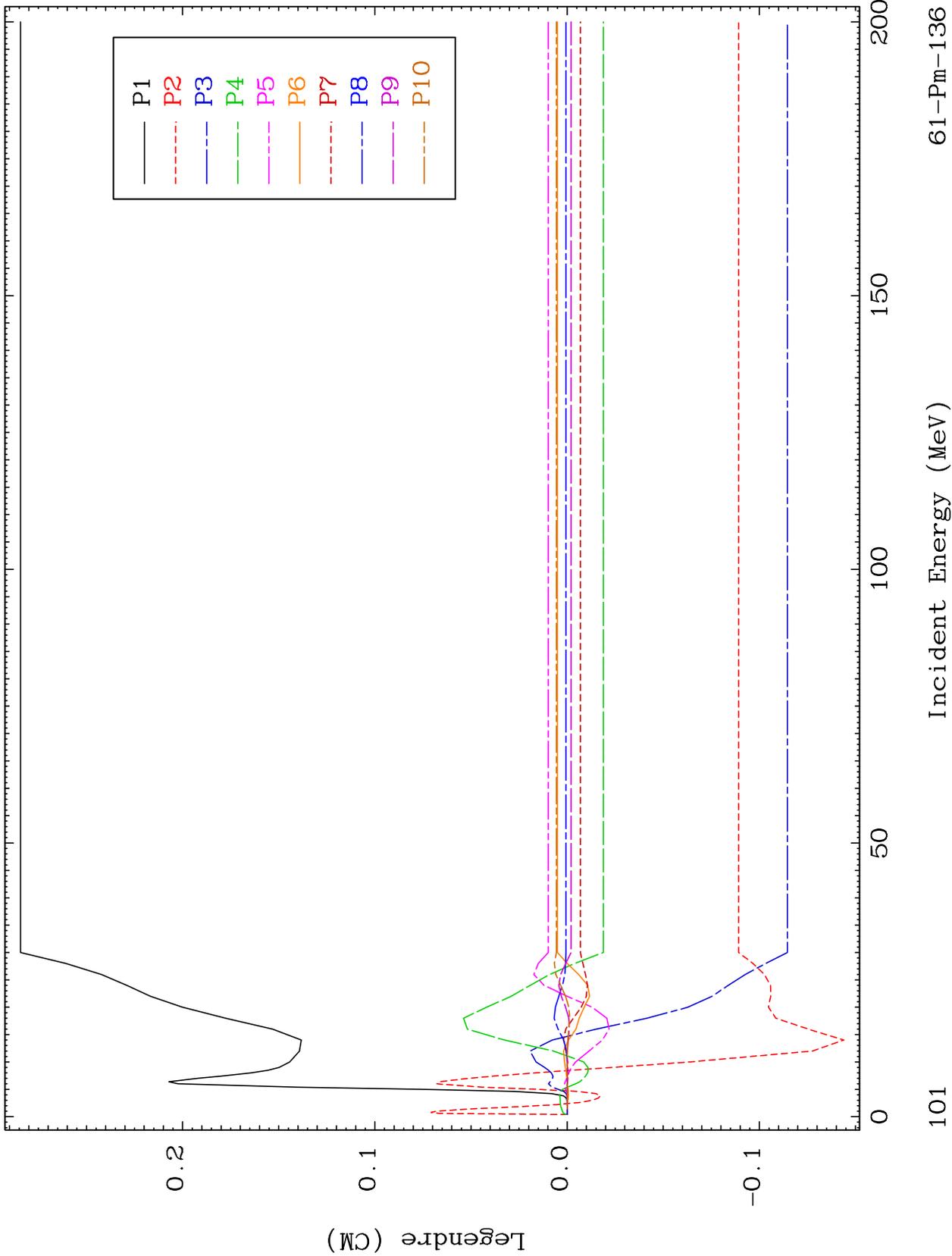




MAT 6116

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

61-Pm-136



61-Pm-136

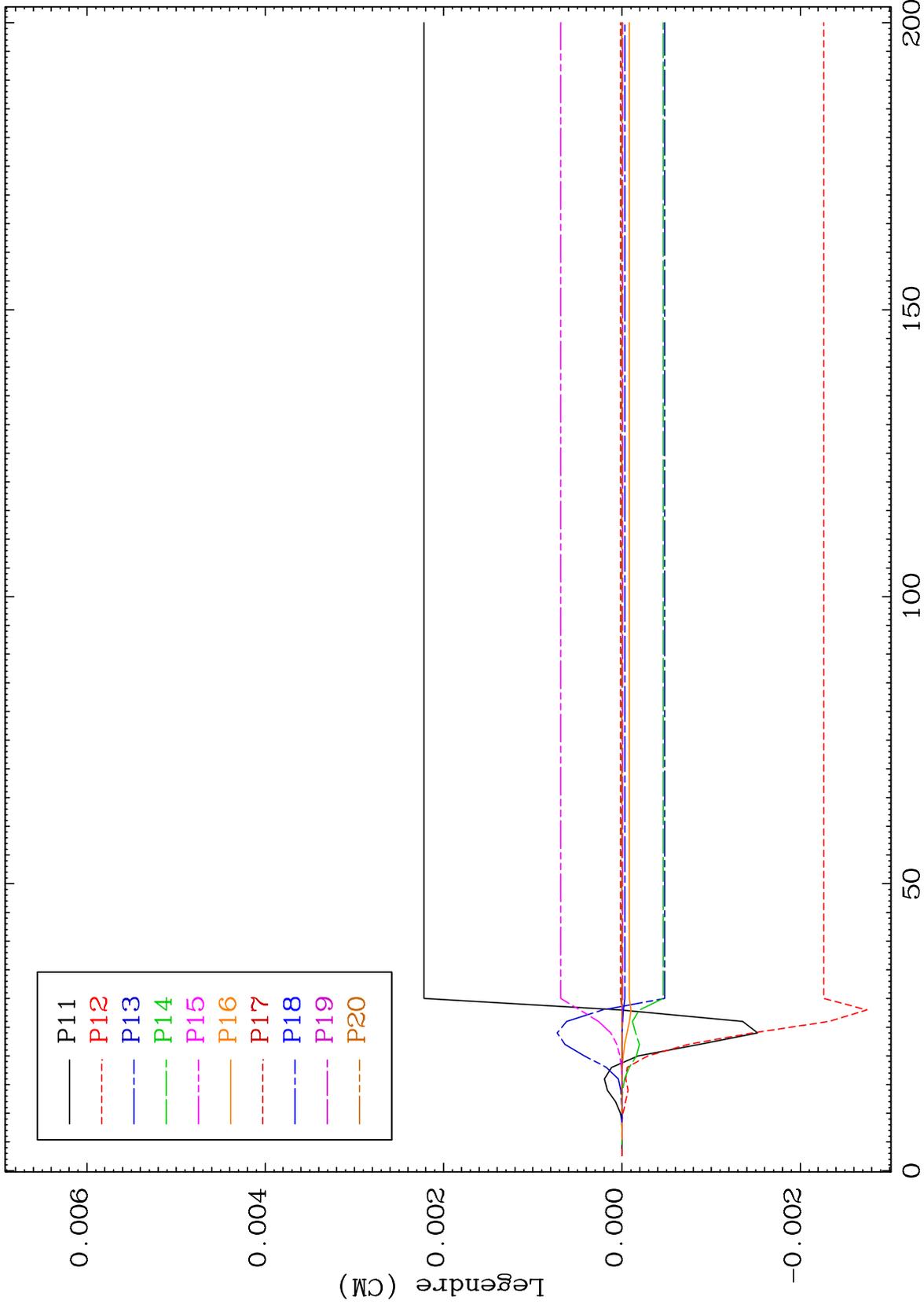
Incident Energy (MeV)

101

MAT 6116

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

61-Pm-136



102

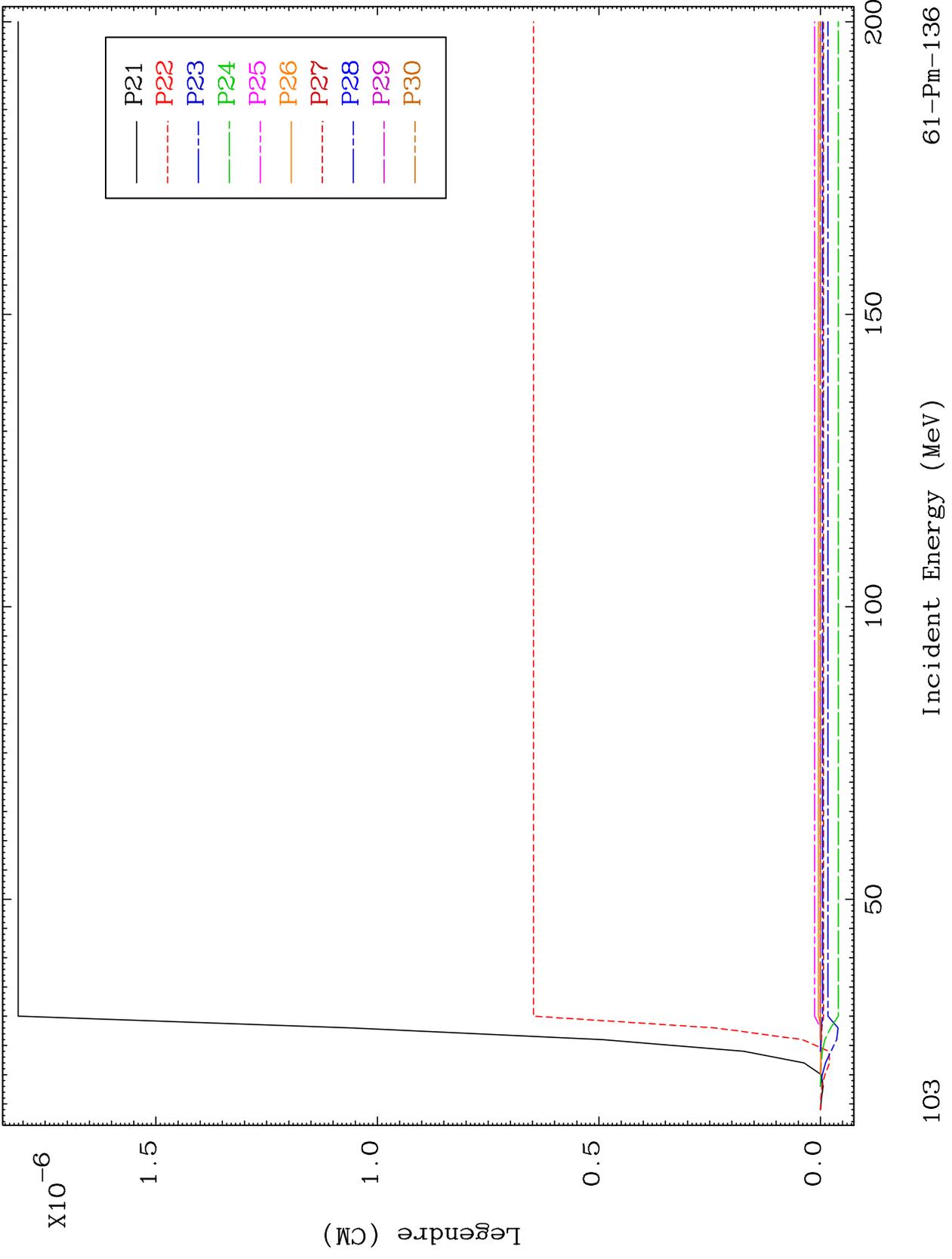
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

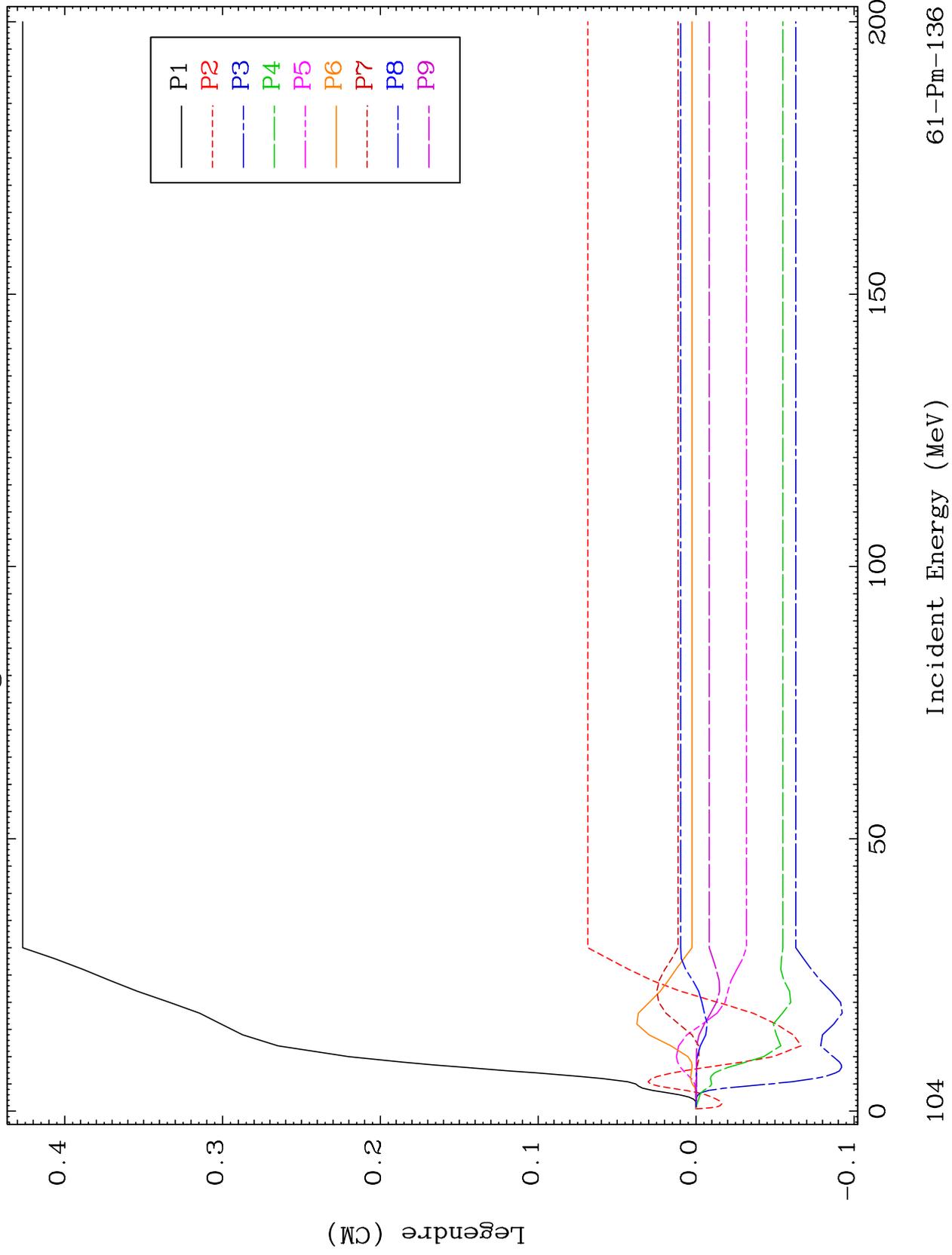
61-Pm-136



MAT 6116

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

61-Pm-136



61-Pm-136

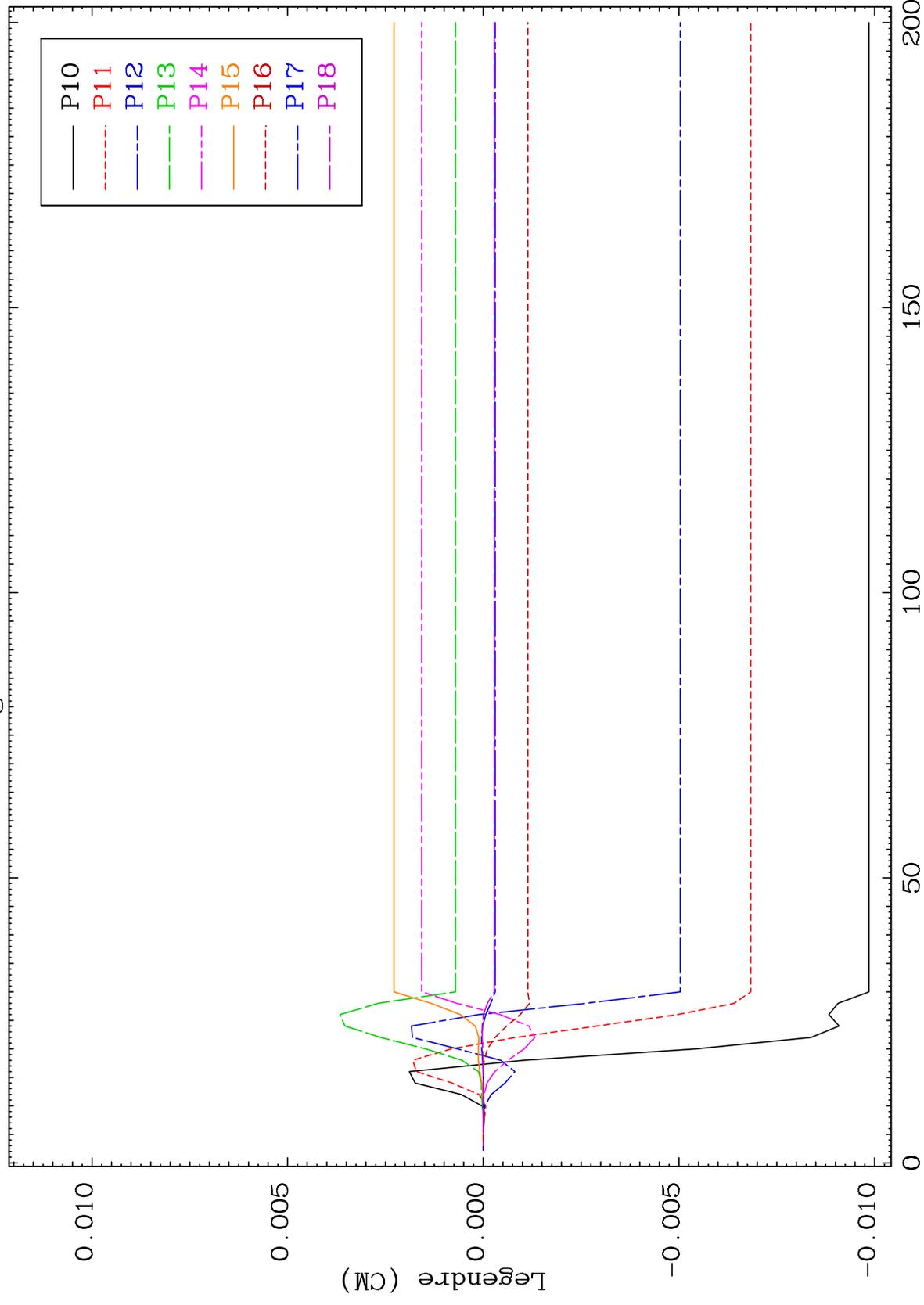
Incident Energy (MeV)

104

MAT 6116

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

61-Pm-136



105

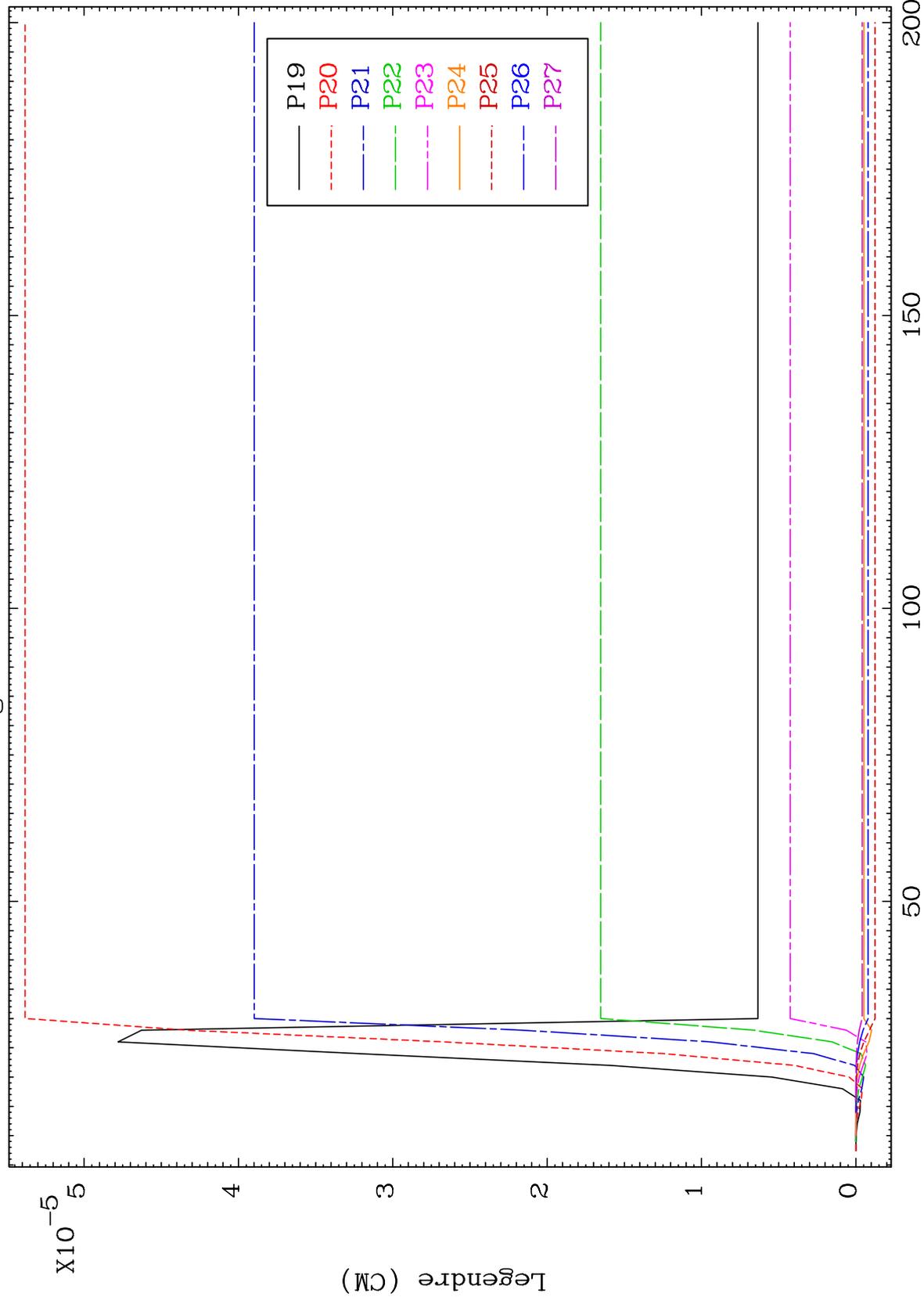
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

61-Pm-136



61-Pm-136

Incident Energy (MeV)

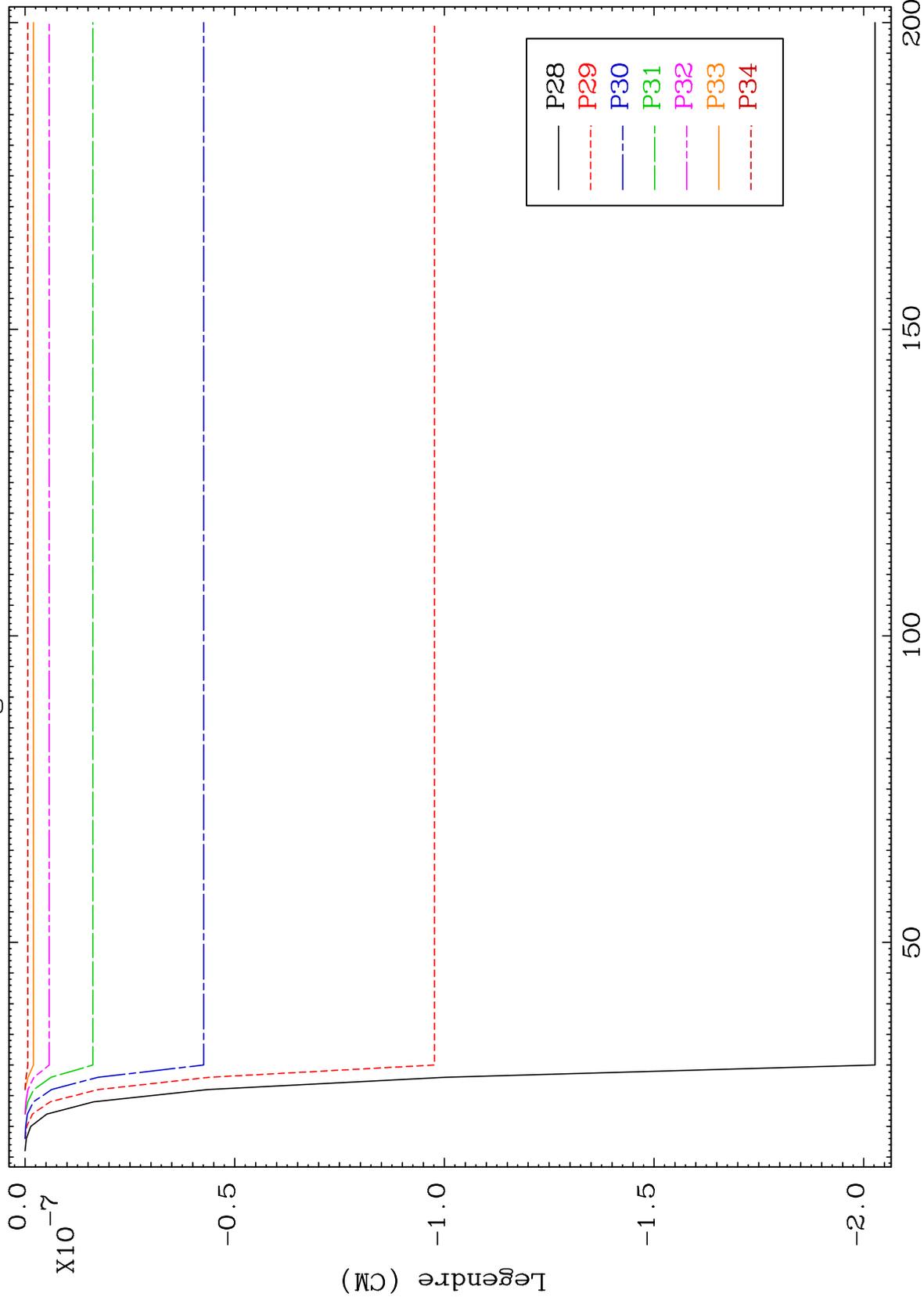
106

MAT 6116

MT= 75 (n,n') Level

61-Pm-136

Legendre Coefficients



61-Pm-136

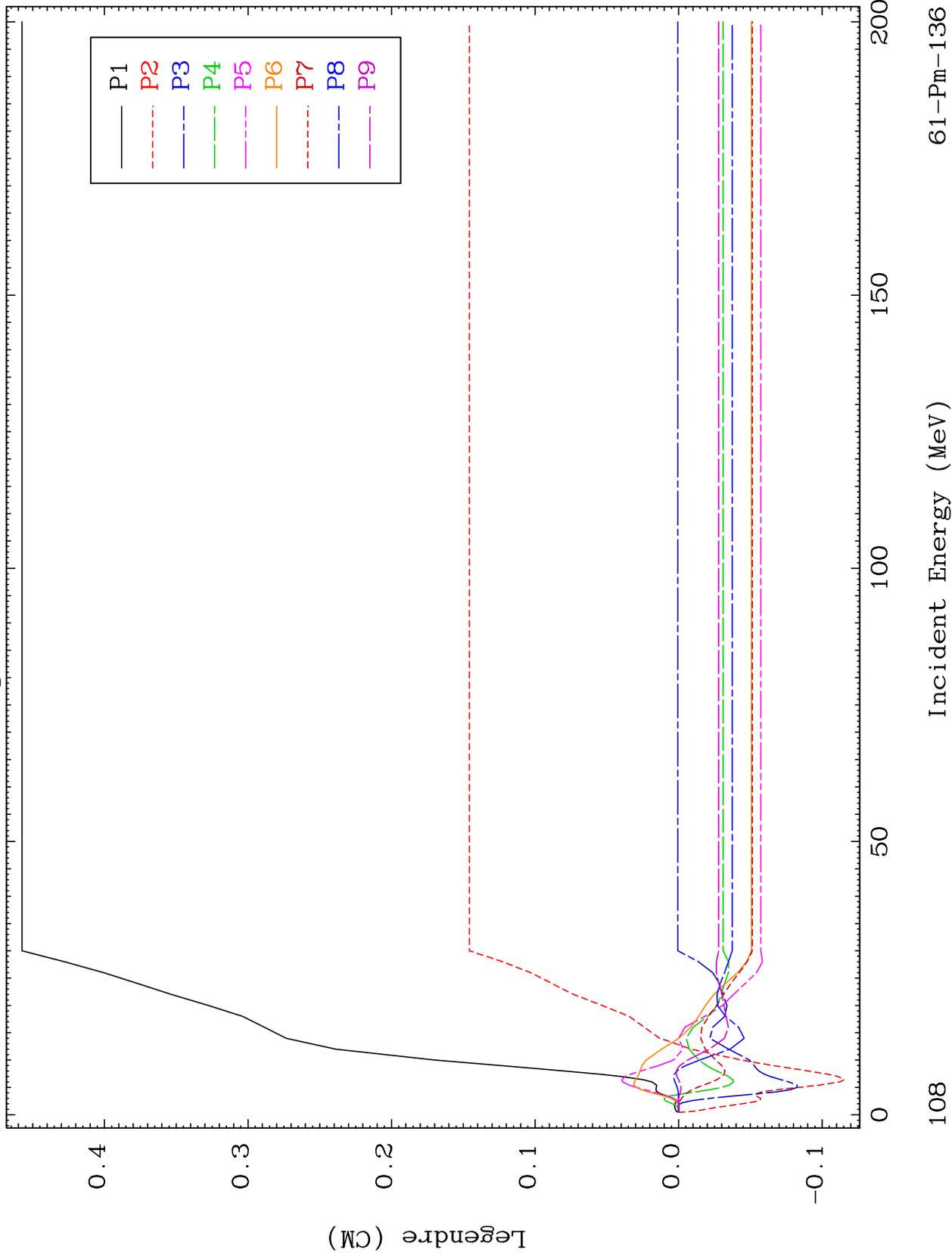
Incident Energy (MeV)

107

MAT 6116

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

61-Pm-136



61-Pm-136

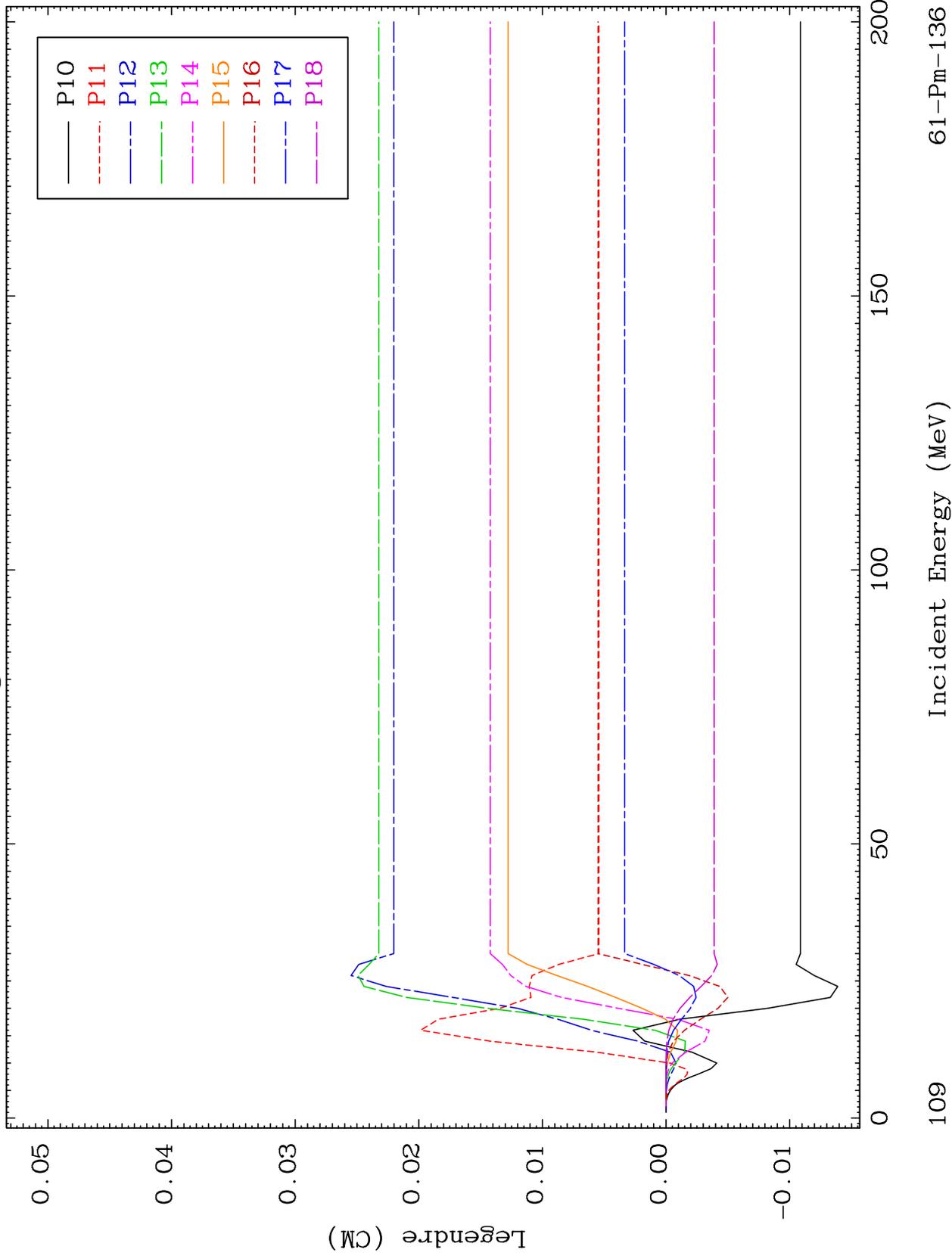
Incident Energy (MeV)

108

MAT 6116

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

61-Pm-136



61-Pm-136

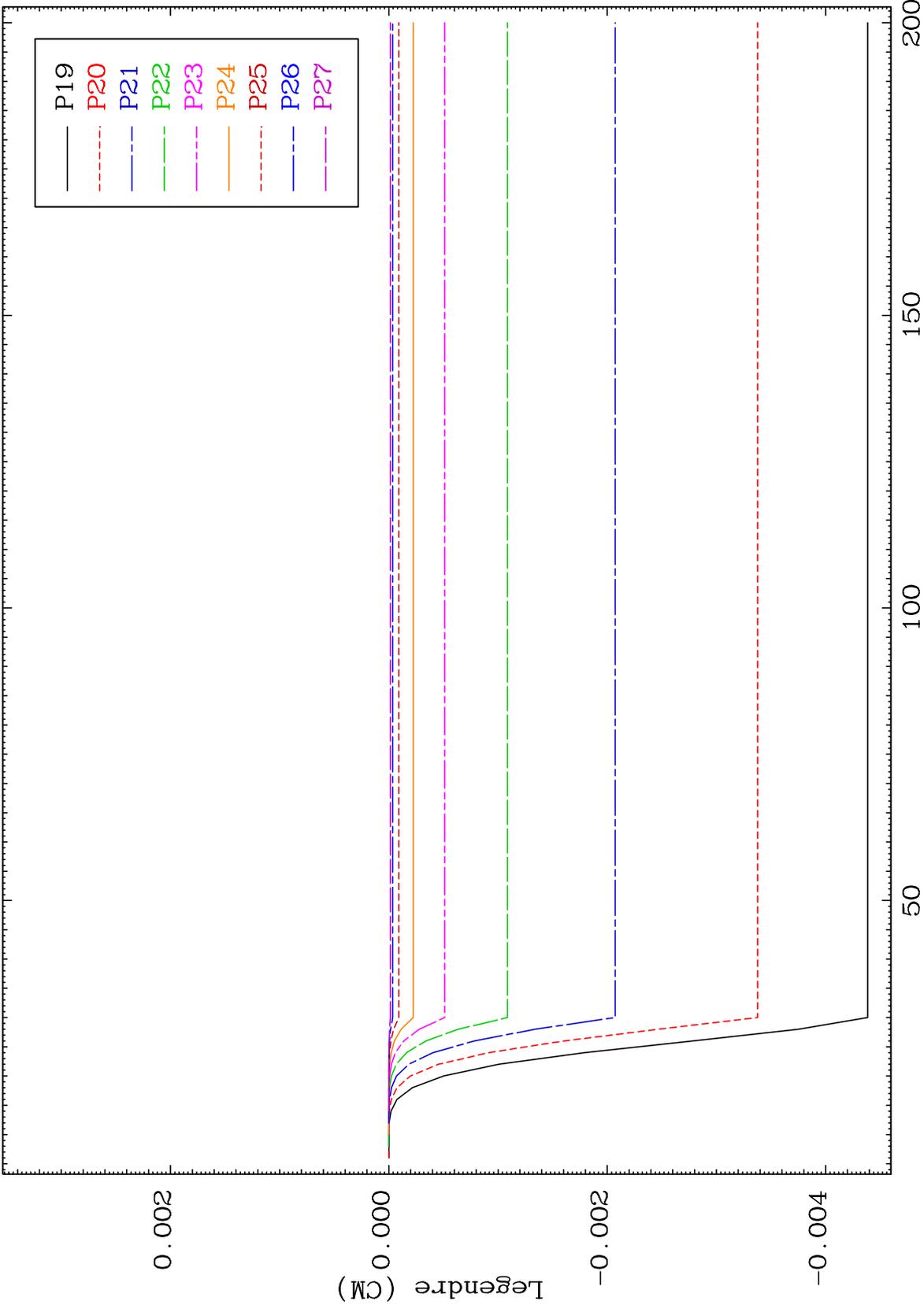
Incident Energy (MeV)

109

MAT 6116

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

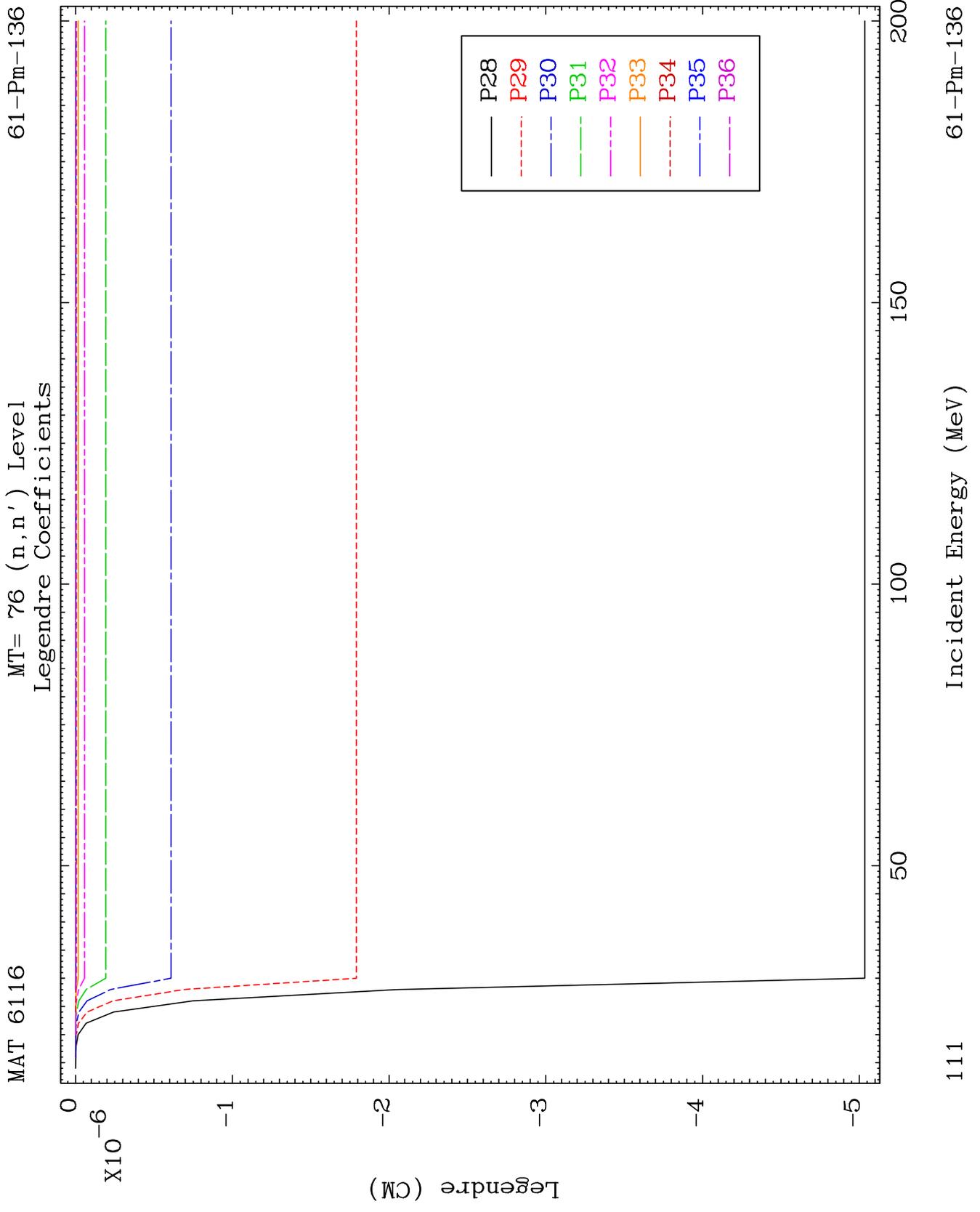
61-Pm-136



110

Incident Energy (MeV)

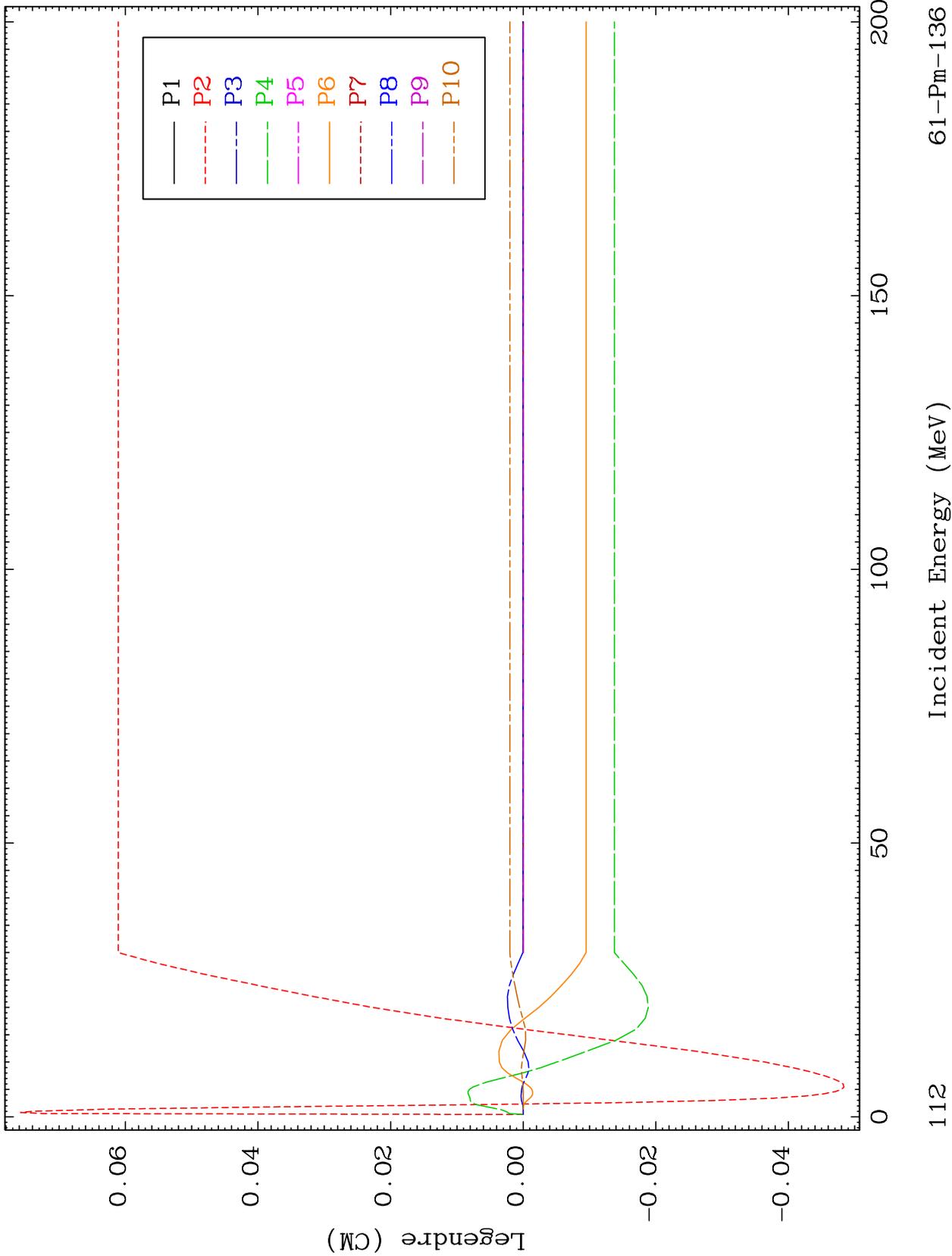
61-Pm-136



MAT 6116

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

61-Pm-136



112

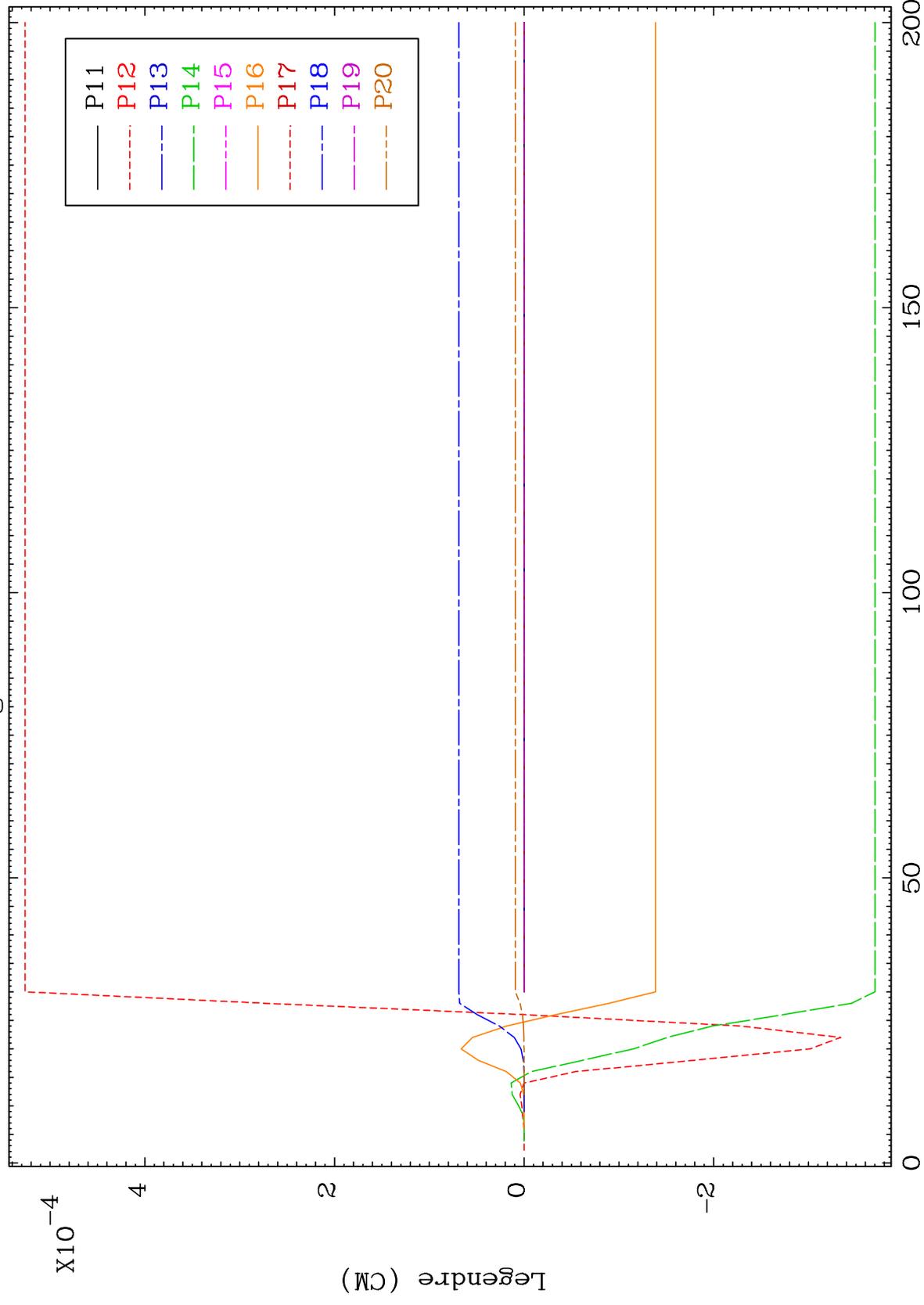
Incident Energy (MeV)

61-Pm-136

MAT 6116

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

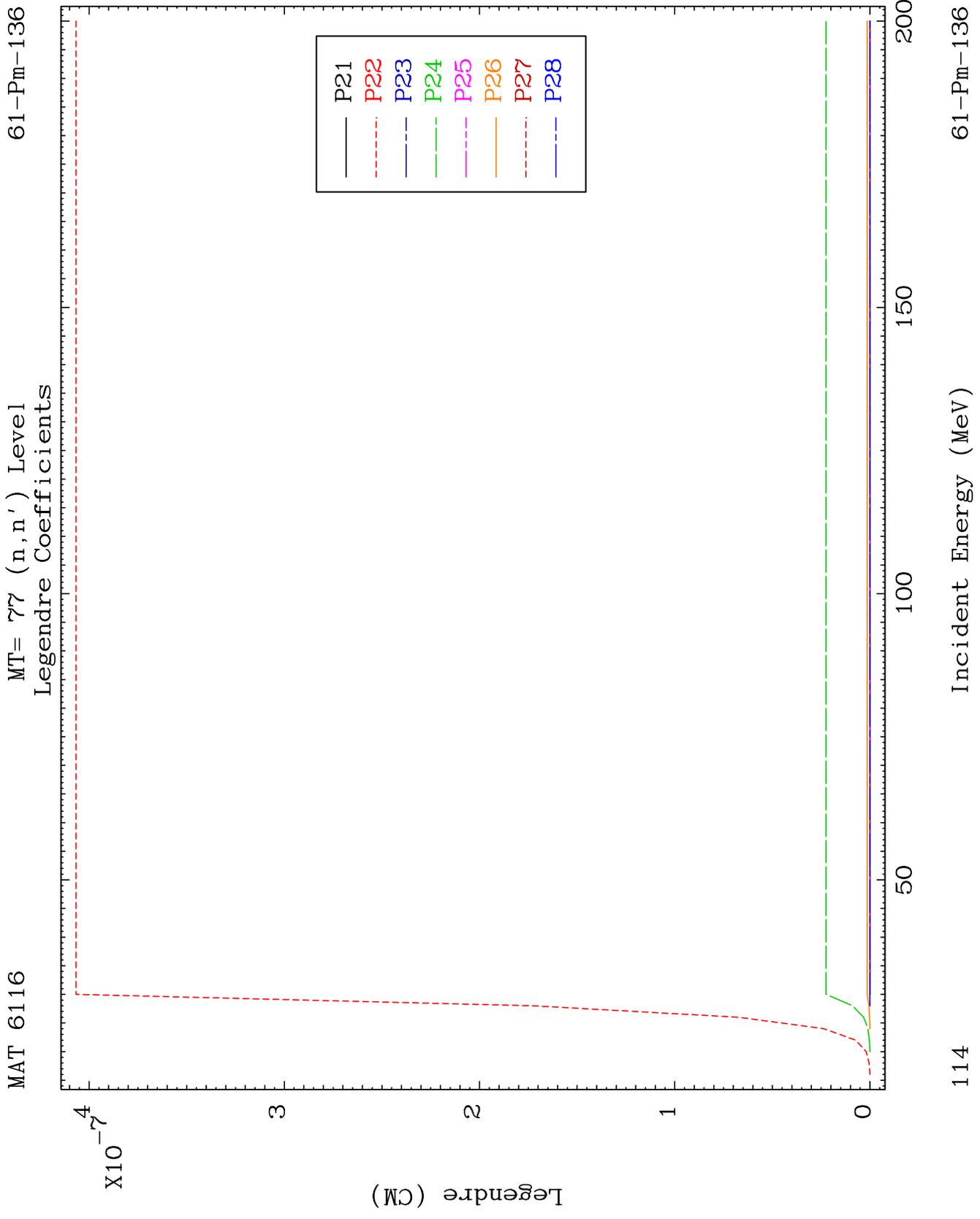
61-Pm-136



113

Incident Energy (MeV)

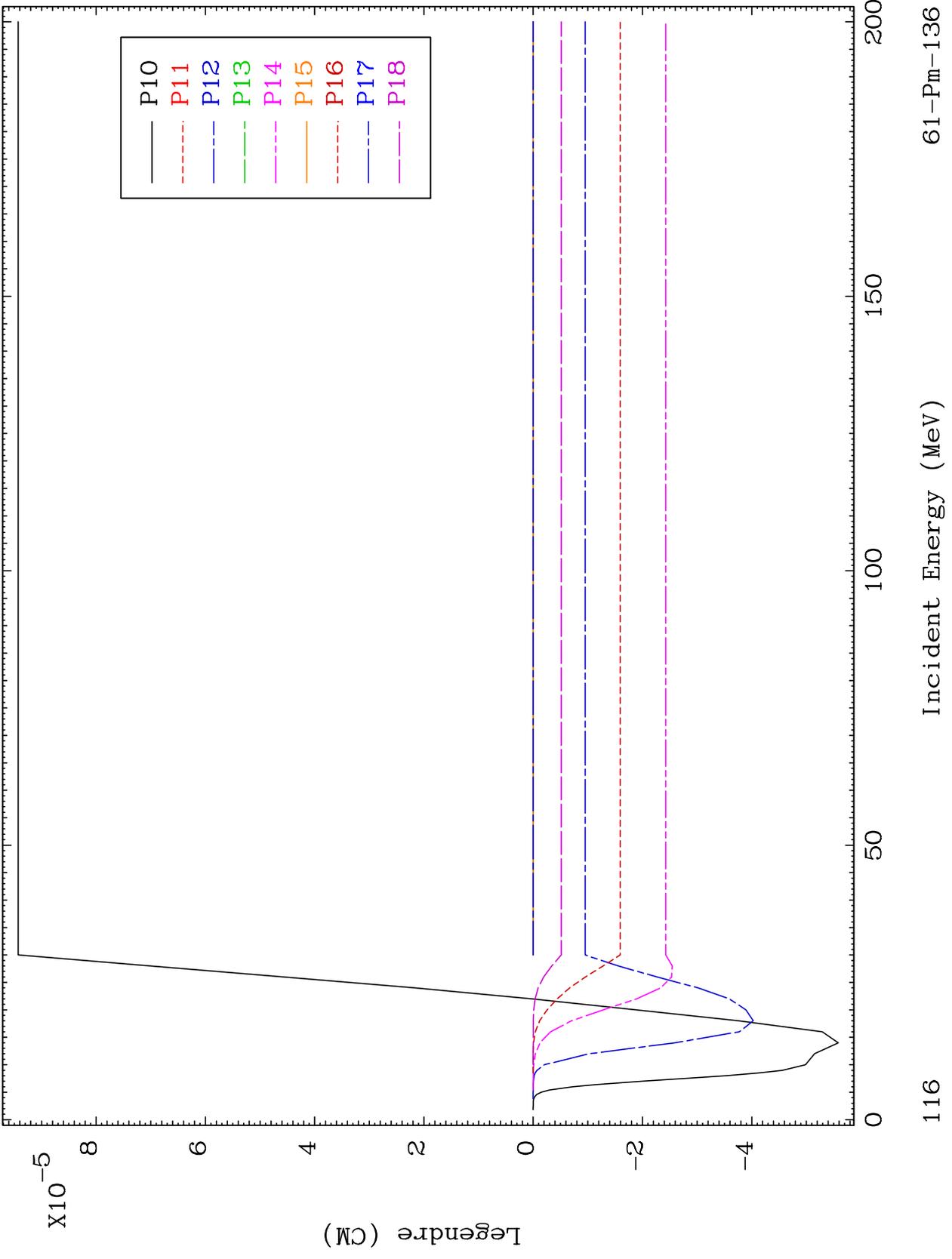
61-Pm-136

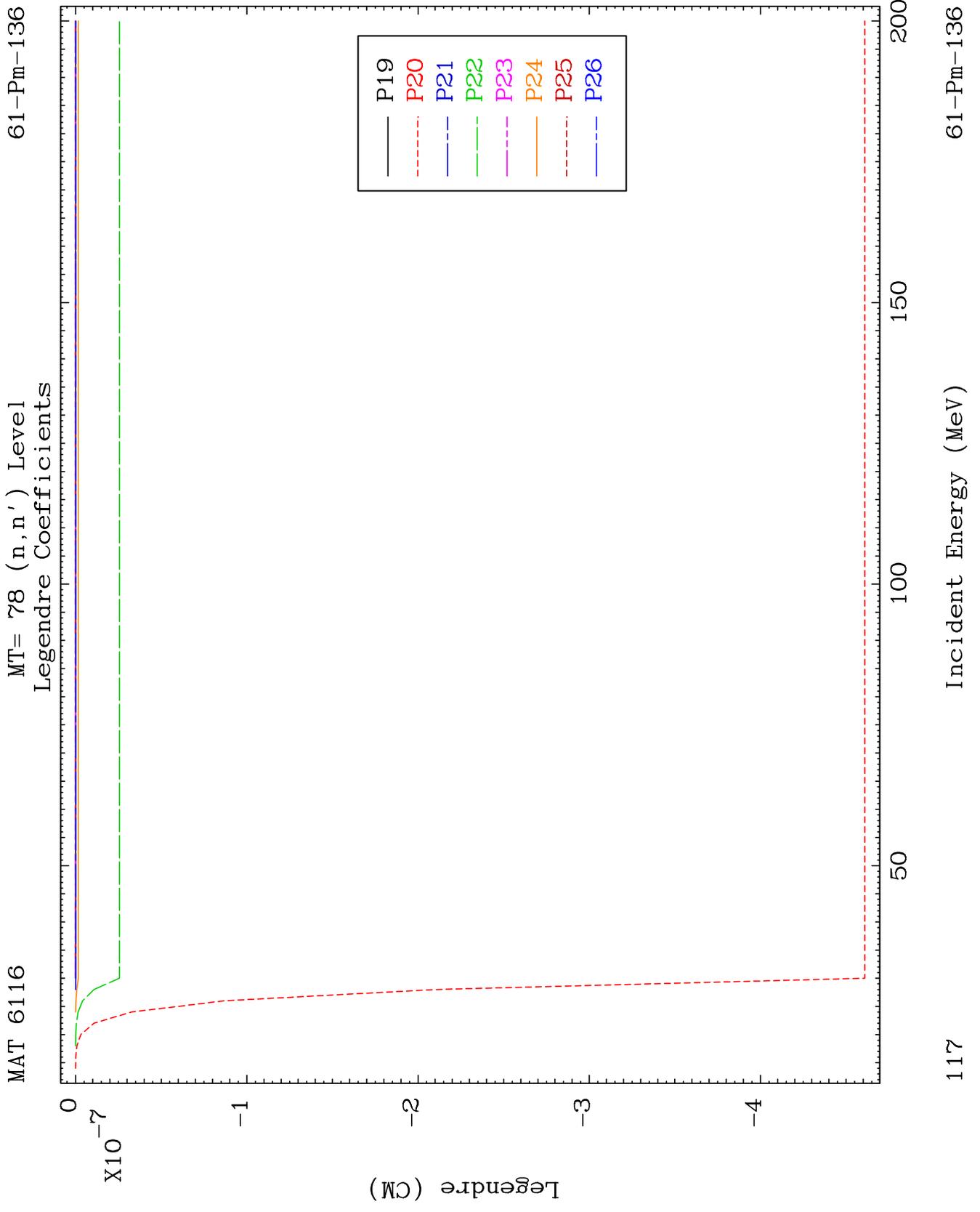


MAT 6116

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

61-Pm-136

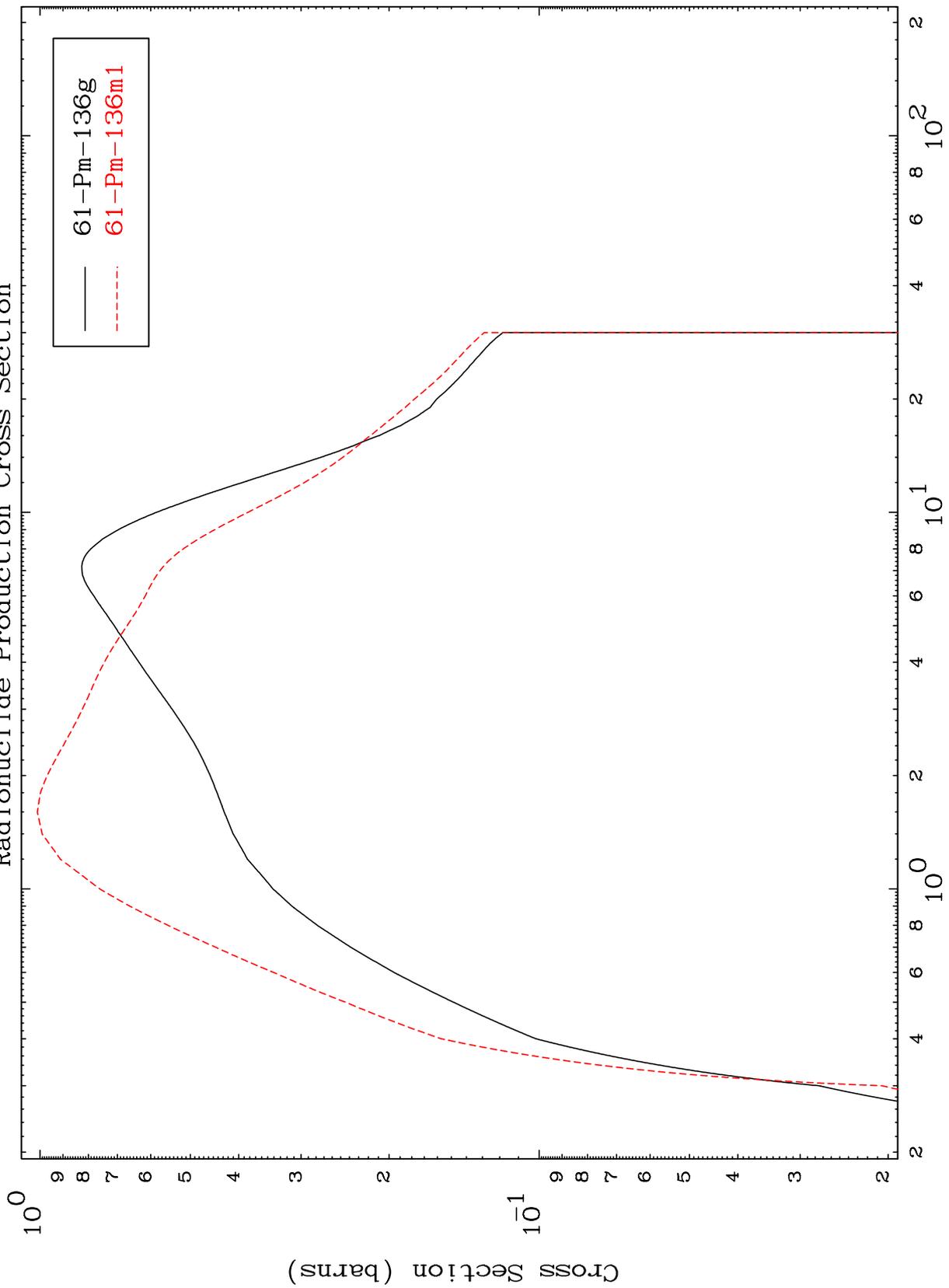




MAT 61116

61-Pm-136

Inelastic
Radionuclide Production Cross Section



61-Pm-136g
61-Pm-136m1

Incident Energy (MeV)

61-Pm-136

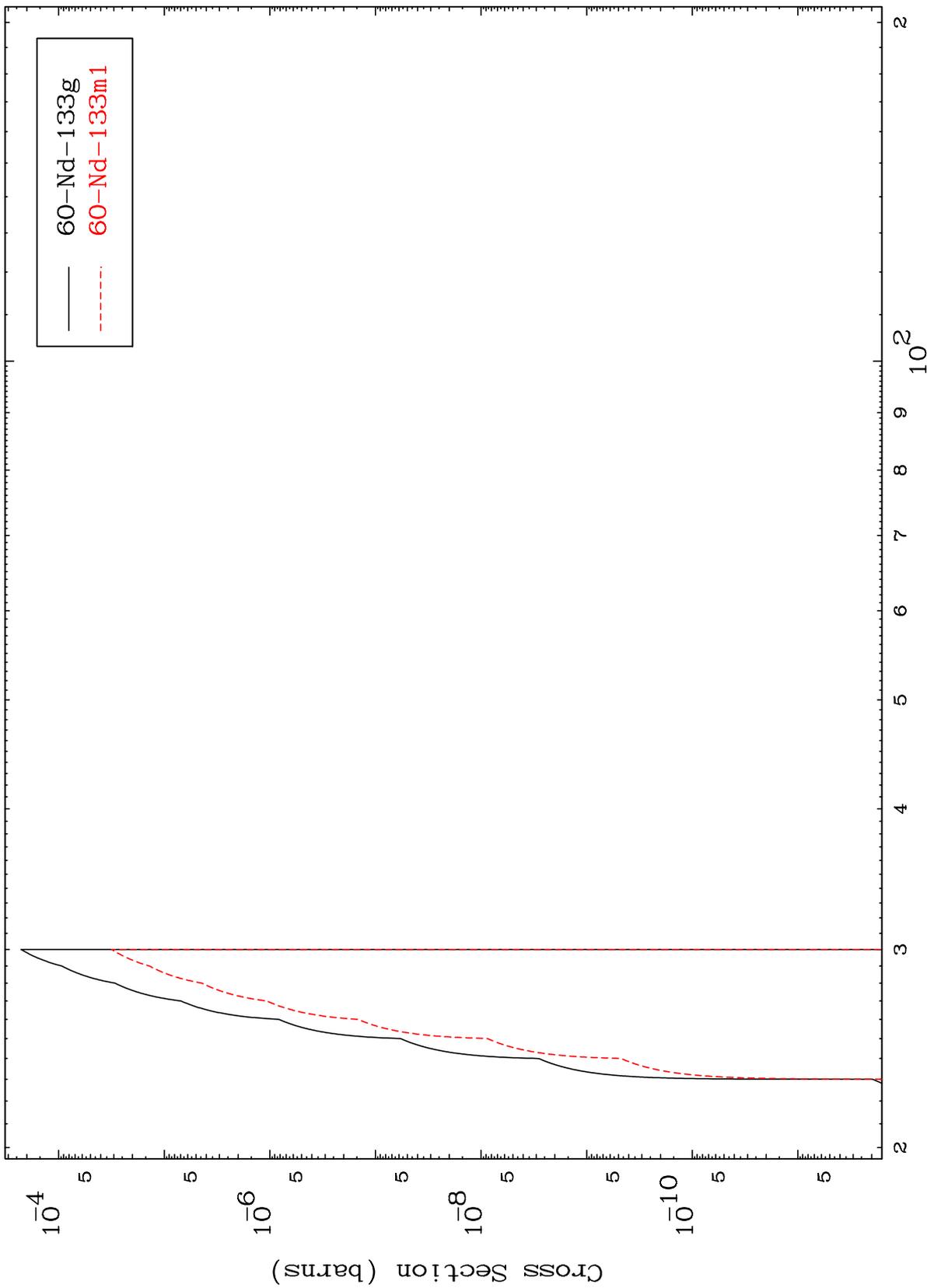
118

MAT 6116

(n,2n) d

61-Pm-136

Radionuclide Production Cross Section



119

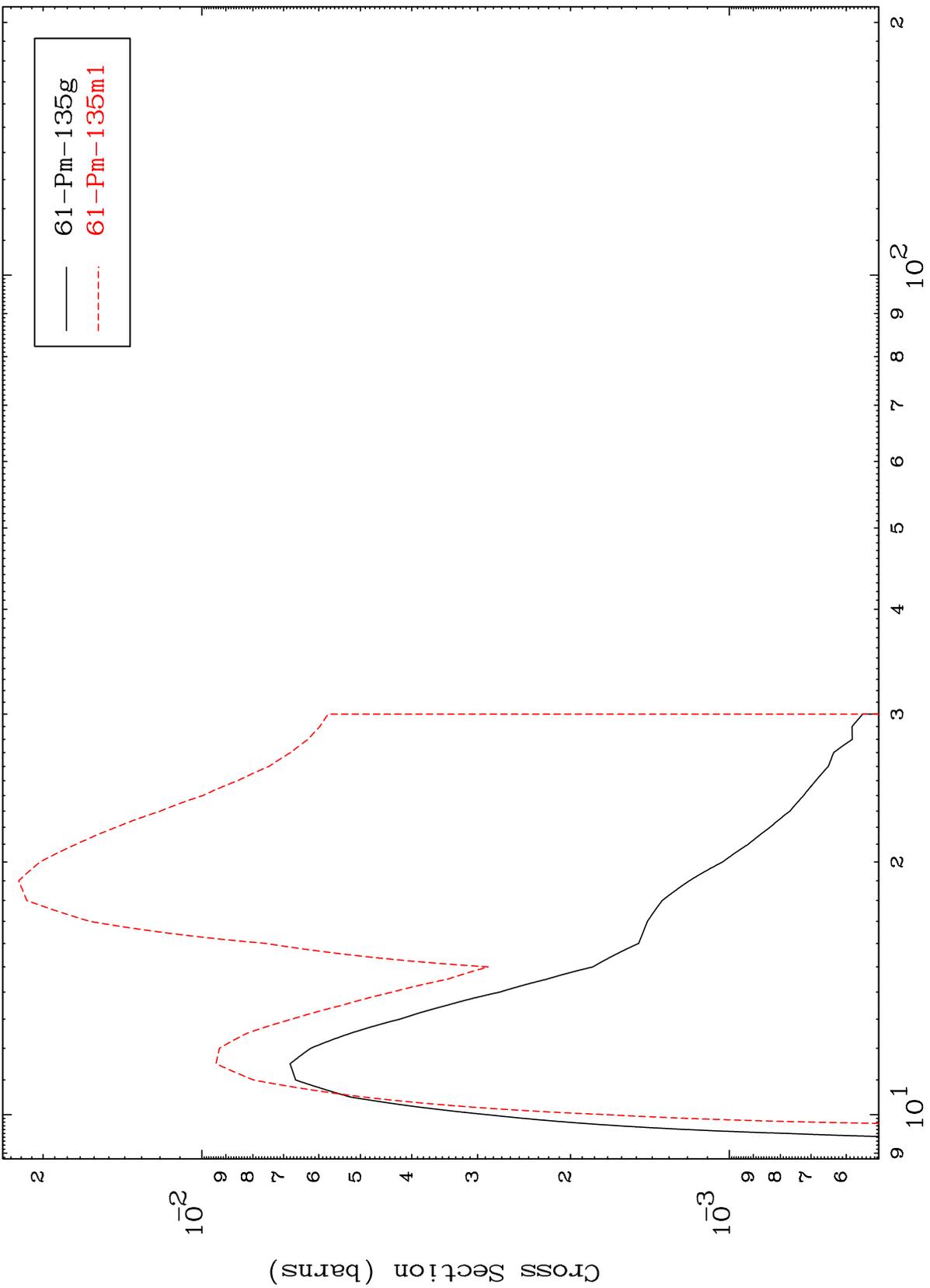
Incident Energy (MeV)

61-Pm-136

MAT 6116

61-Pm-136

(n,2n)
Radionuclide Production Cross Section



61-Pm-136

Incident Energy (MeV)

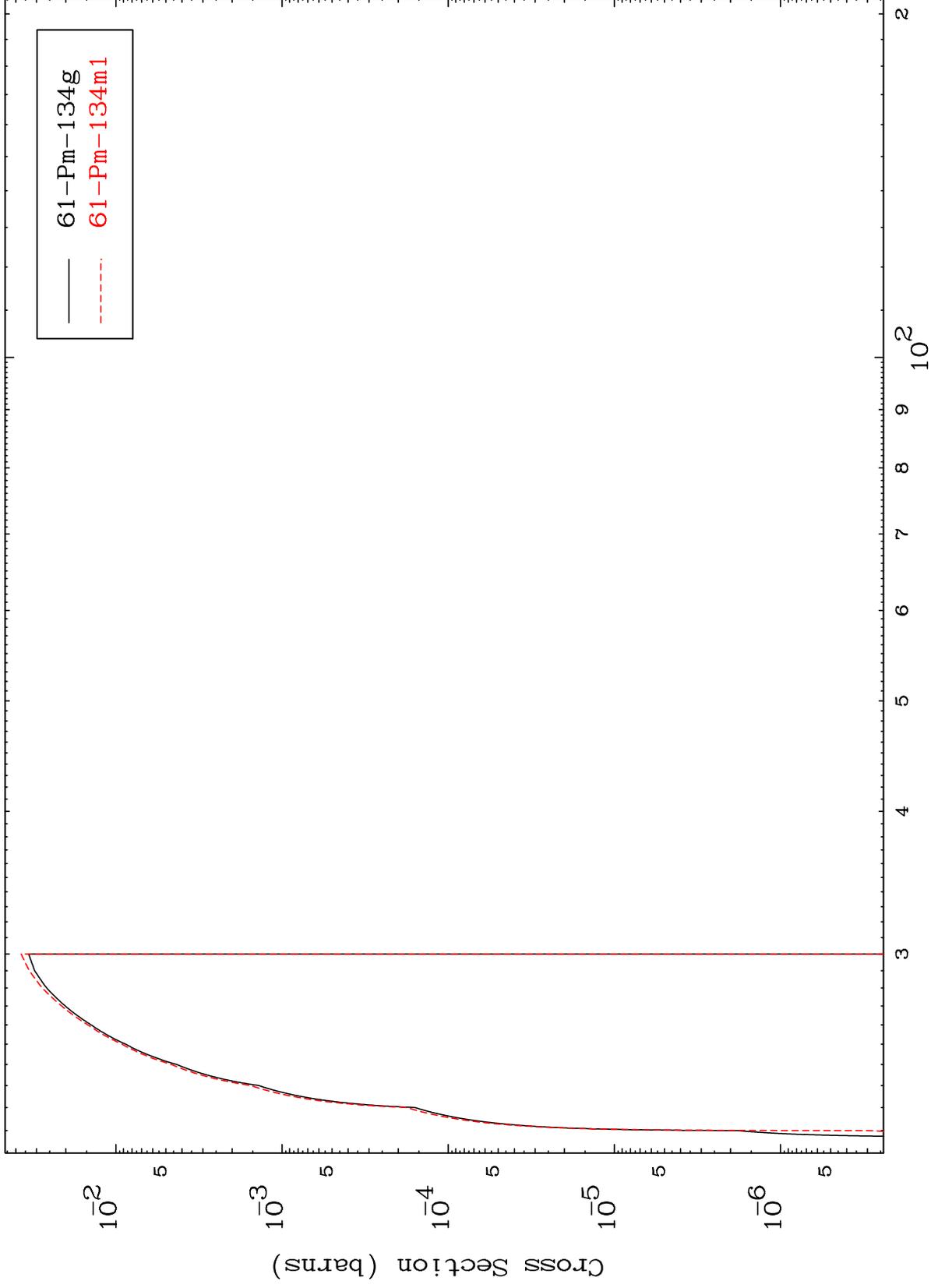
120

MAT 6116

(n,3n)

61-Pm-136

Radionuclide Production Cross Section



121

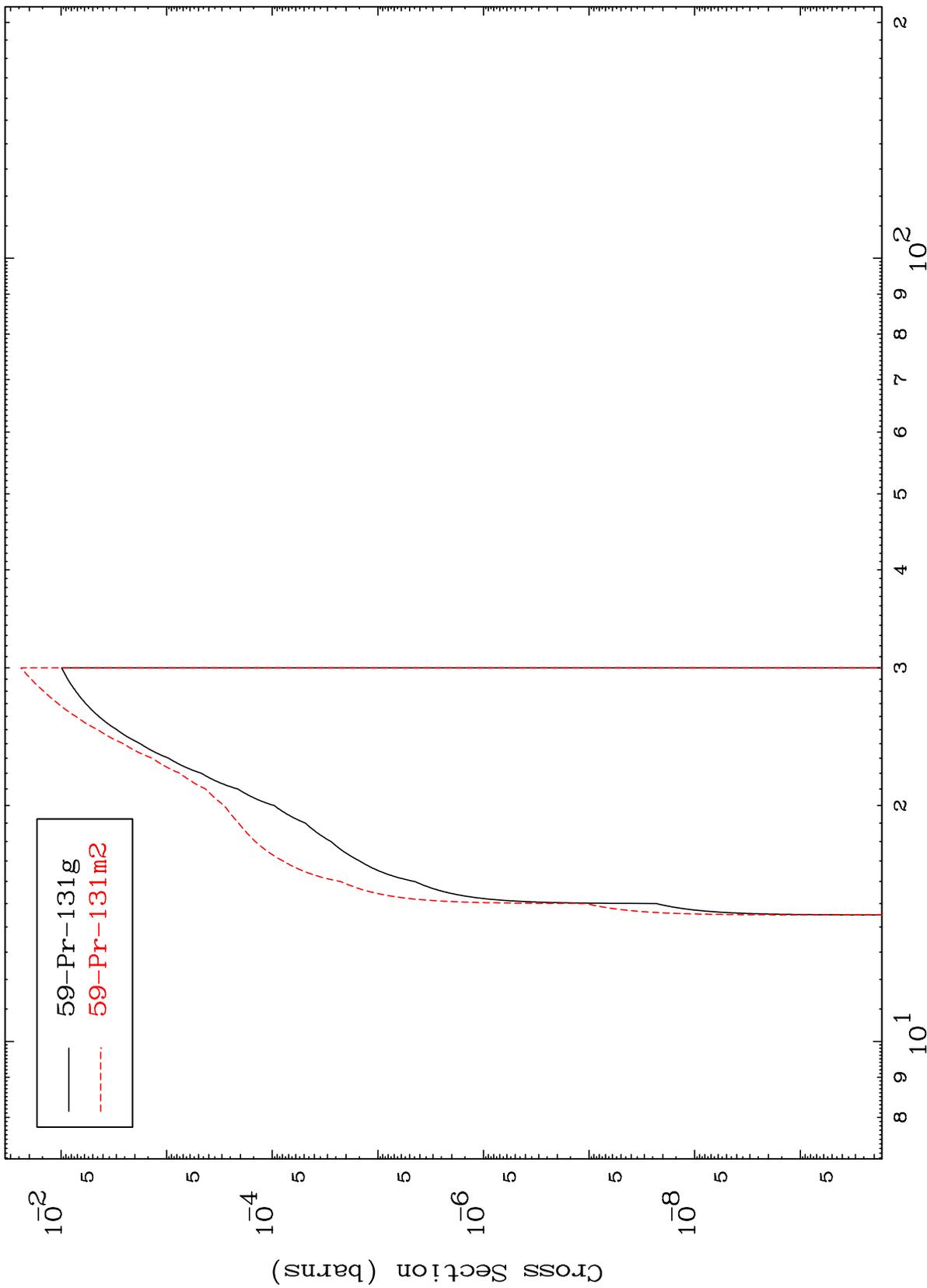
Incident Energy (MeV)

61-Pm-136

MAT 6116

61-Pm-136

(n,2n) α
Radionuclide Production Cross Section



122

Incident Energy (MeV)

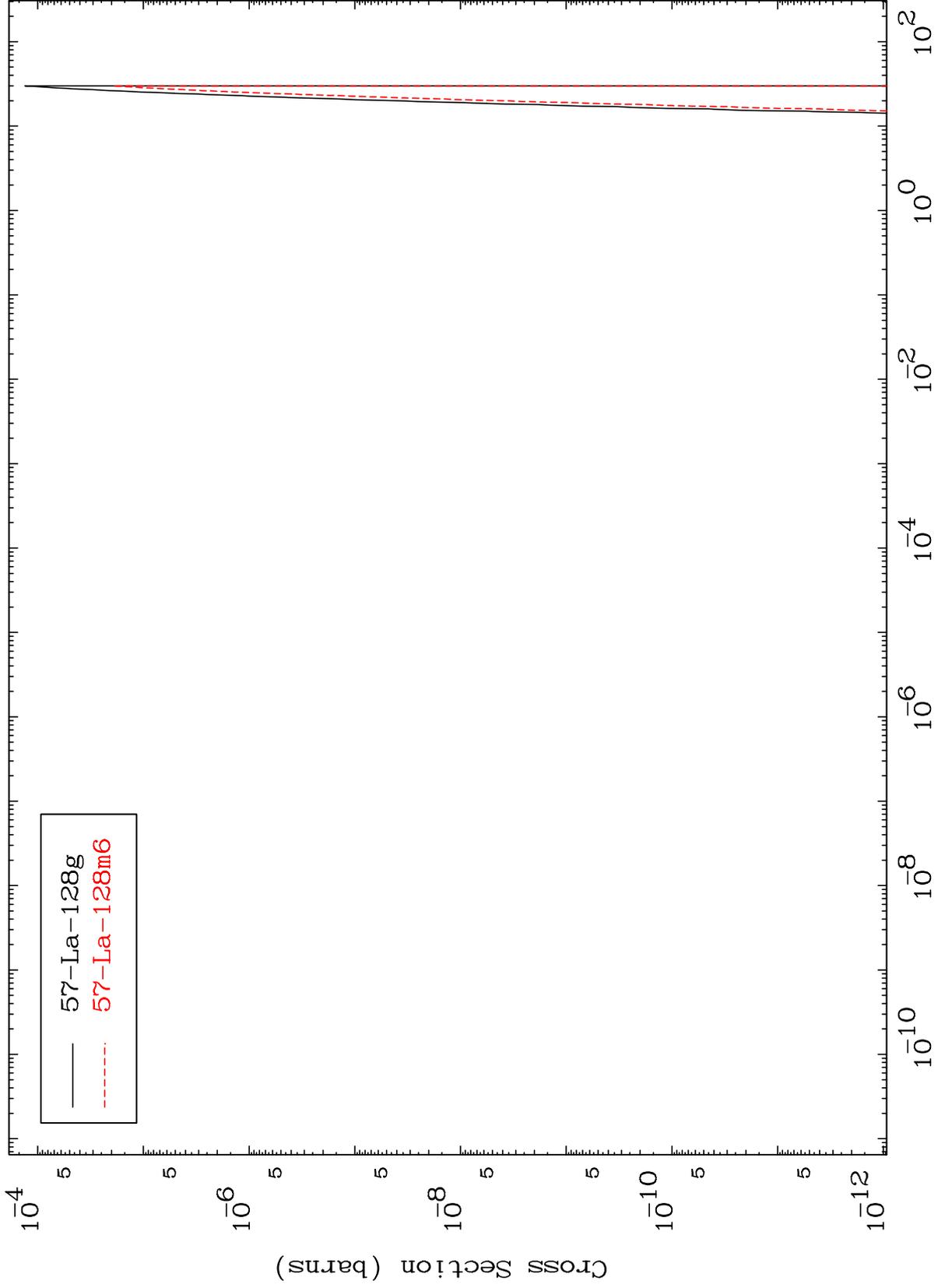
61-Pm-136

MAT 61116

(n,n') 2 α

61-Pm-136

Radionuclide Production Cross Section



123

Incident Energy (MeV)

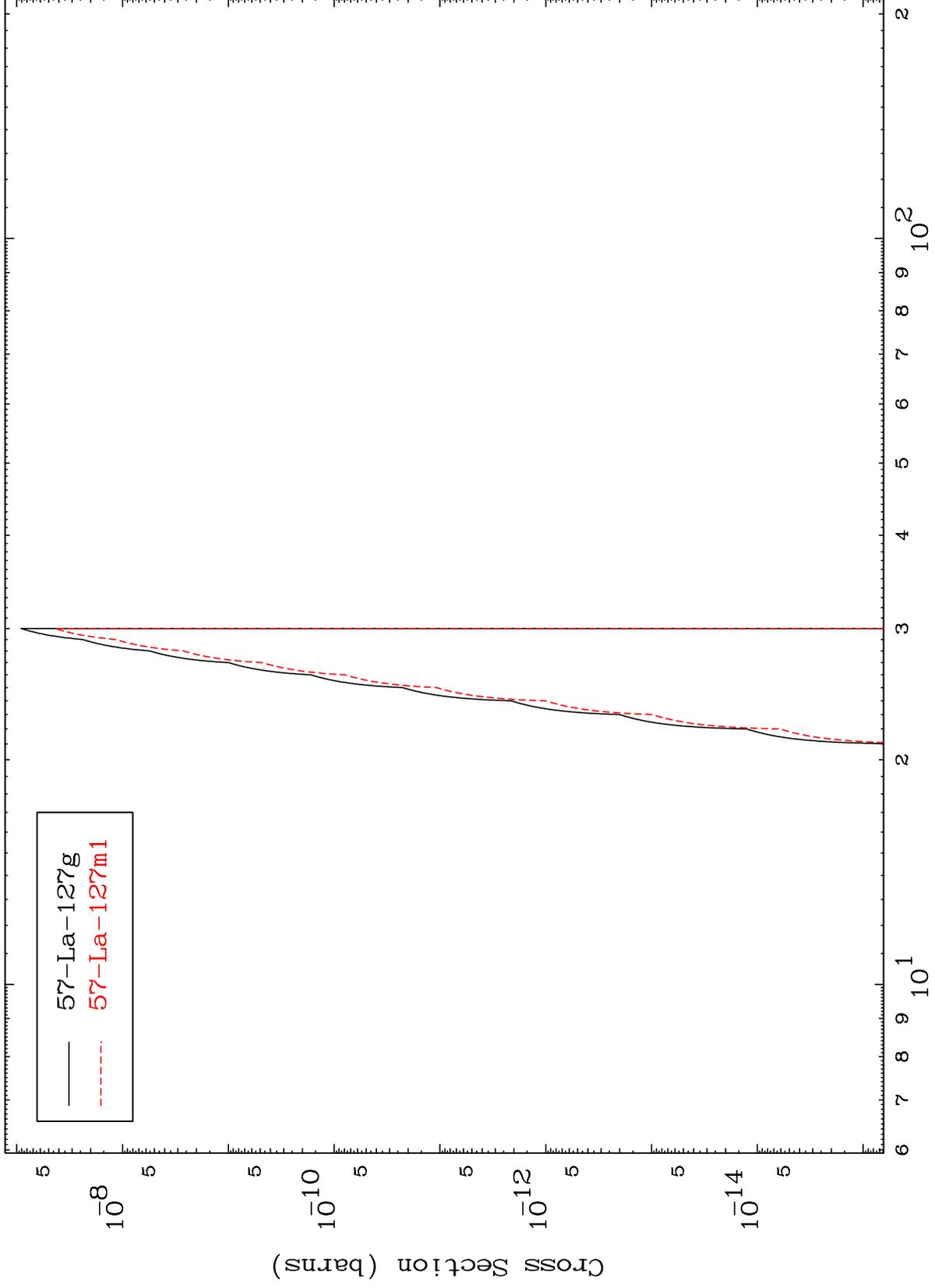
61-Pm-136

MAT 61116

$(n,2n) 2\alpha$

61-Pm-136

Radionuclide Production Cross Section



57-La-127g
57-La-127m1

124

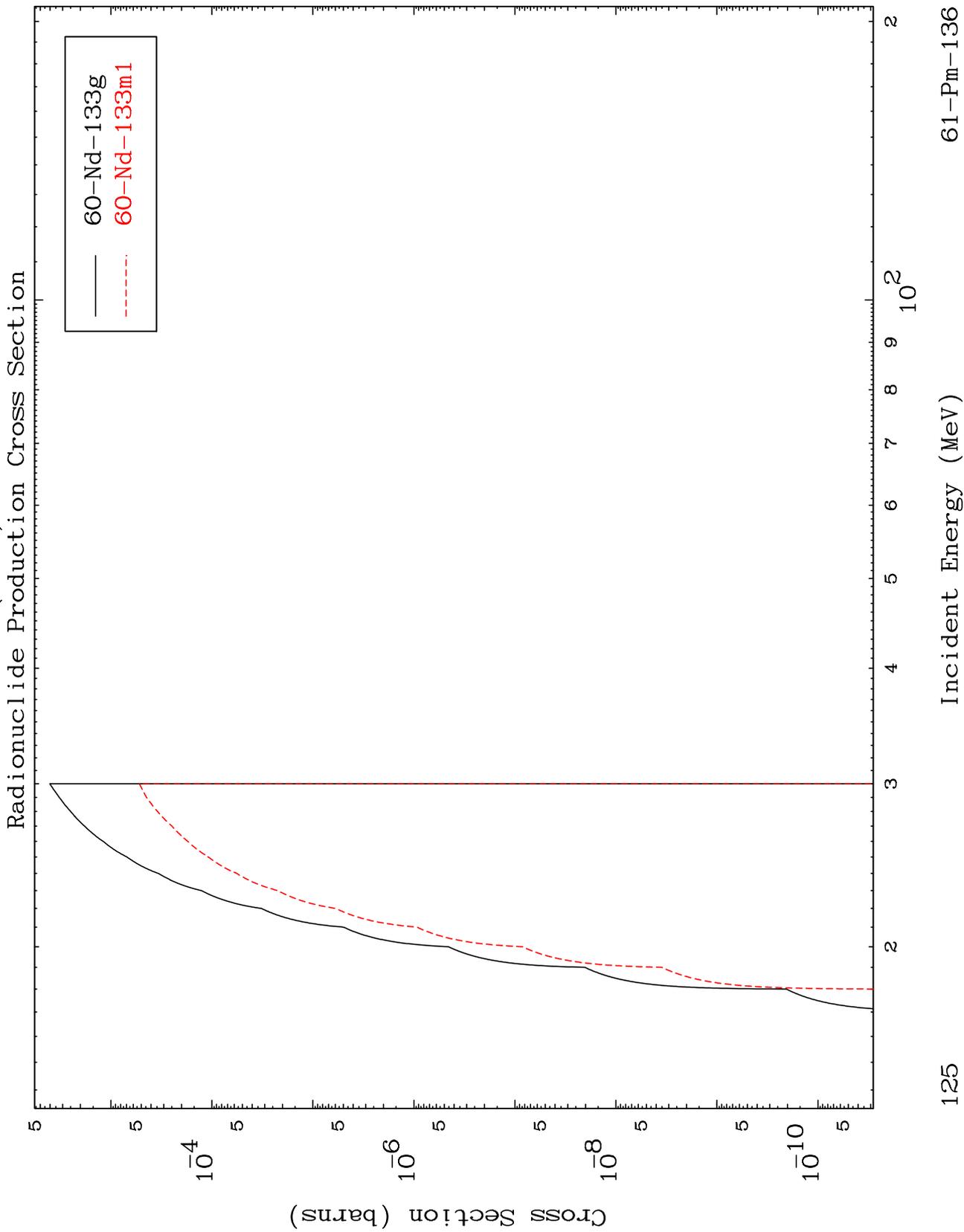
Incident Energy (MeV)

61-Pm-136

MAT 6116

(n,n') t

61-Pm-136



125

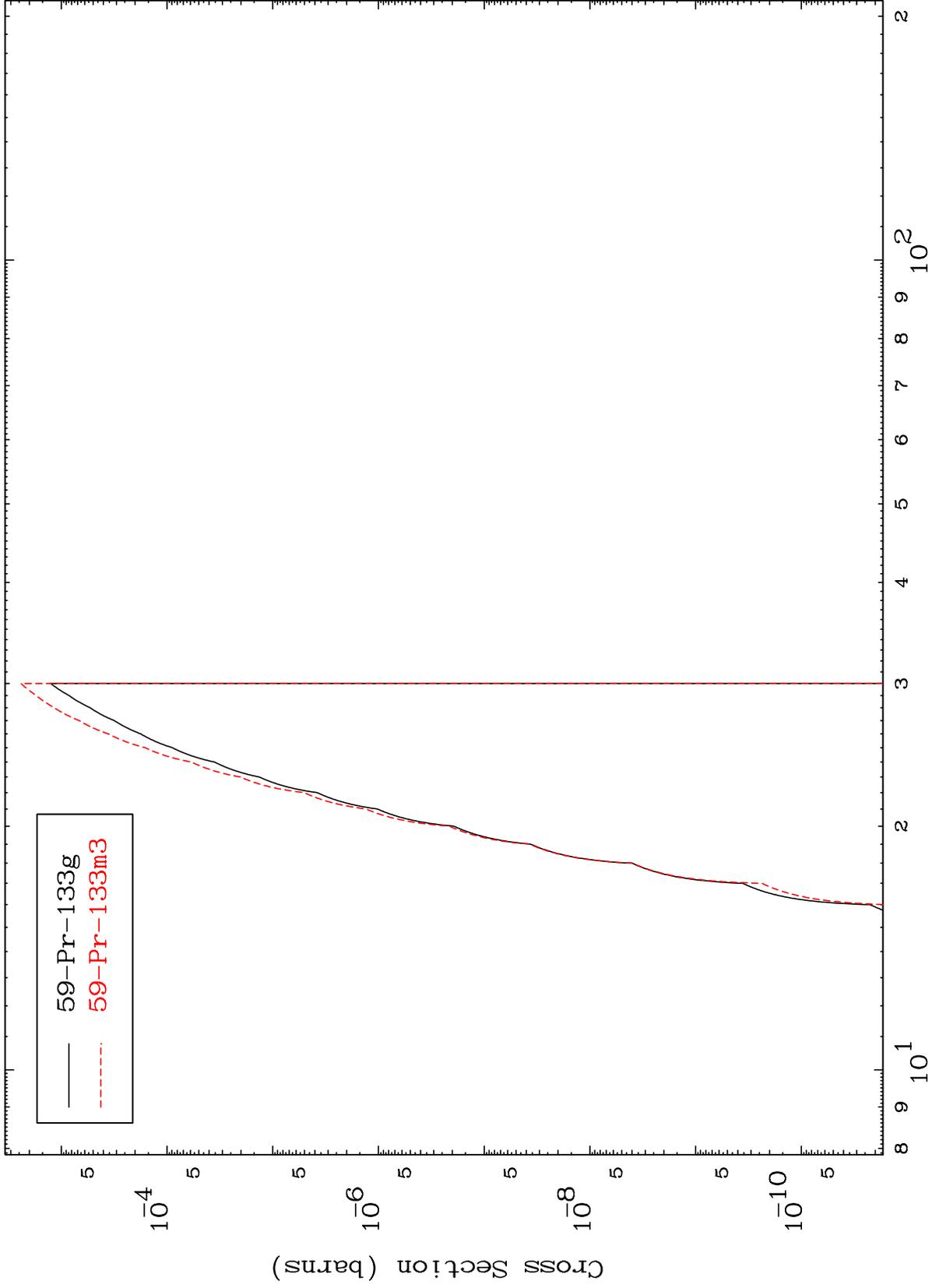
61-Pm-136

MAT 6116

(n,n') He-3

61-Pm-136

Radionuclide Production Cross Section



126

Incident Energy (MeV)

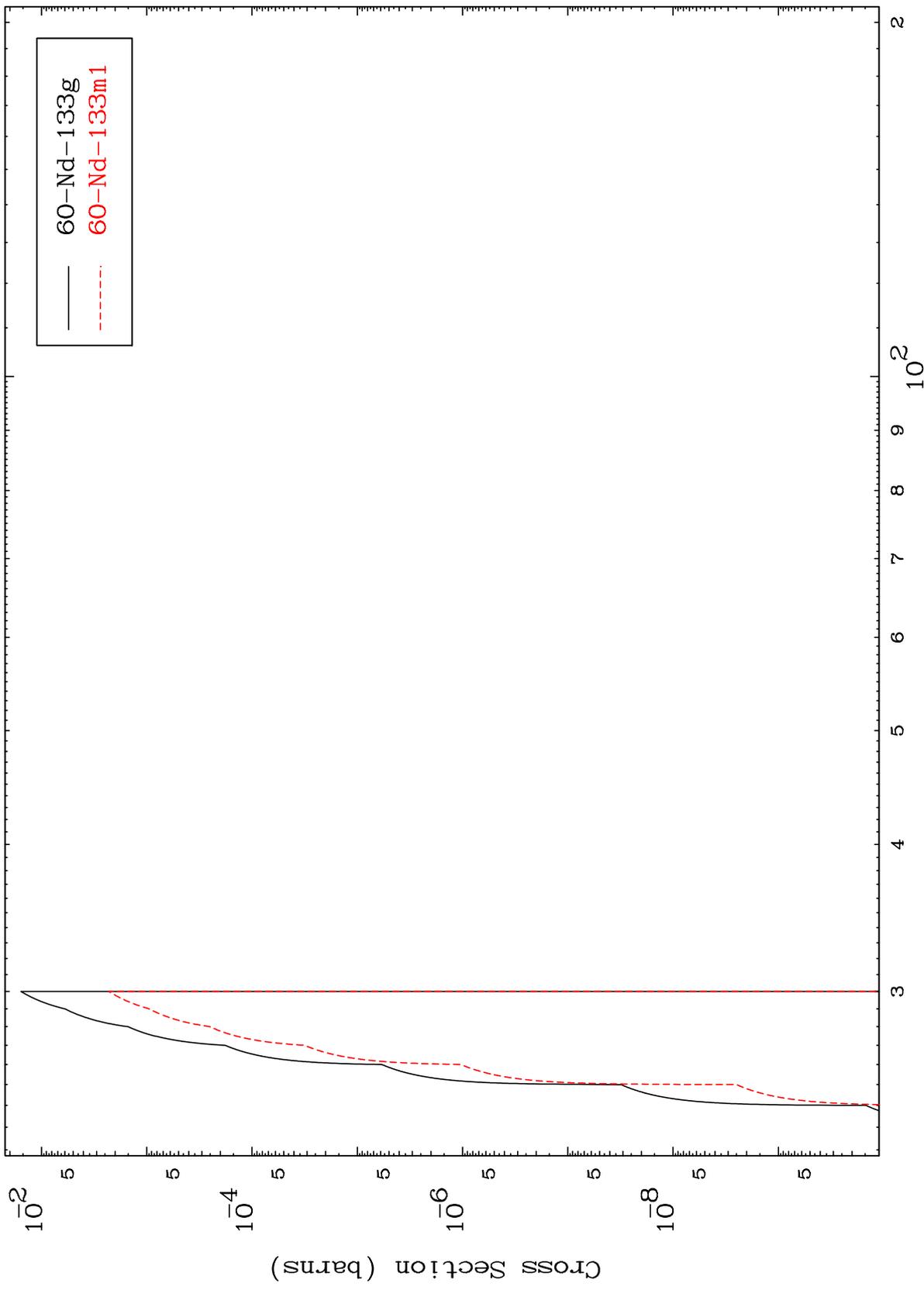
61-Pm-136

MAT 6116

(n,3n) p

61-Pm-136

Radionuclide Production Cross Section



127

Incident Energy (MeV)

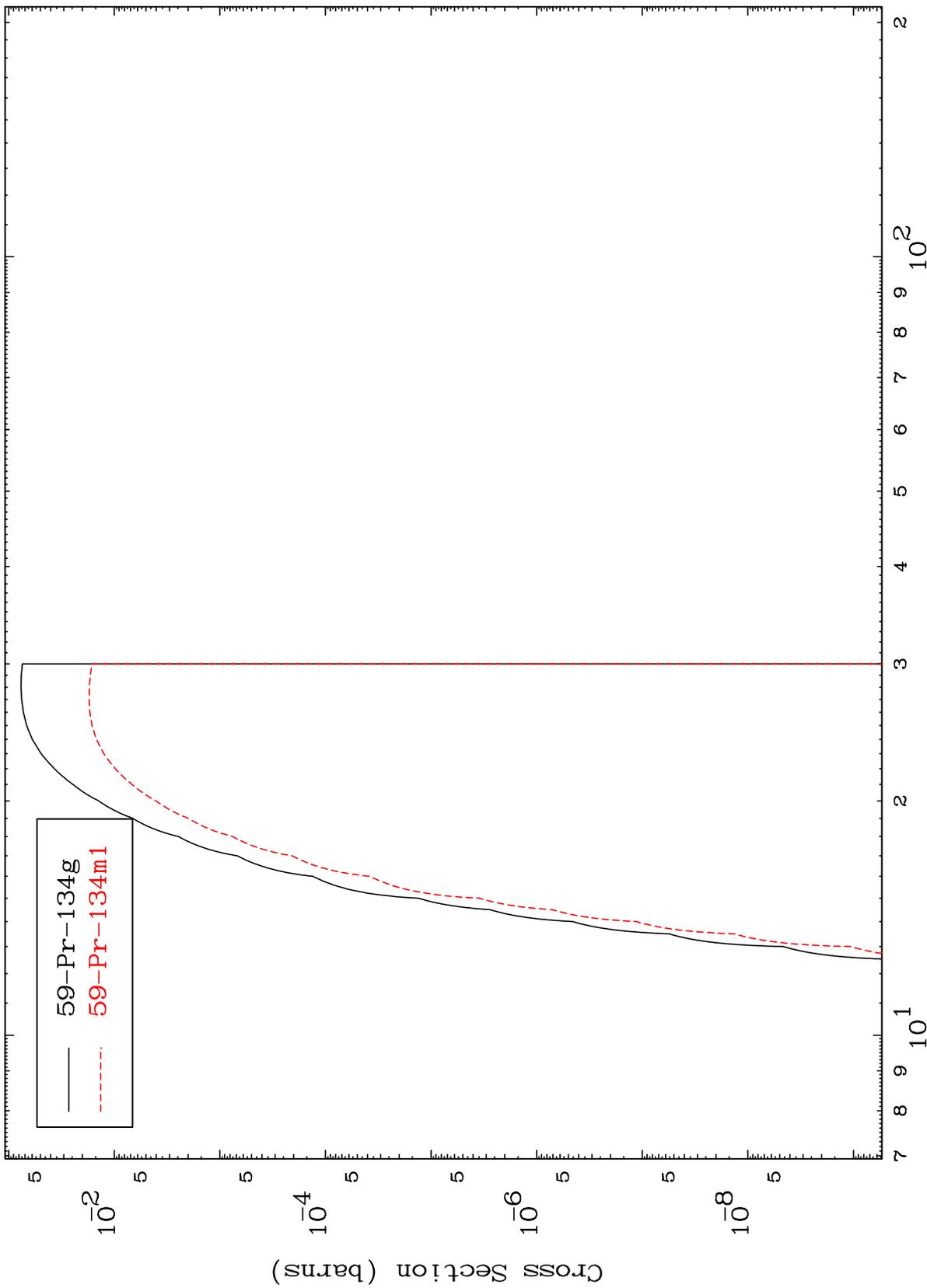
61-Pm-136

MAT 61116

(n,2n) p

61-Pm-136

Radionuclide Production Cross Section



128

Incident Energy (MeV)

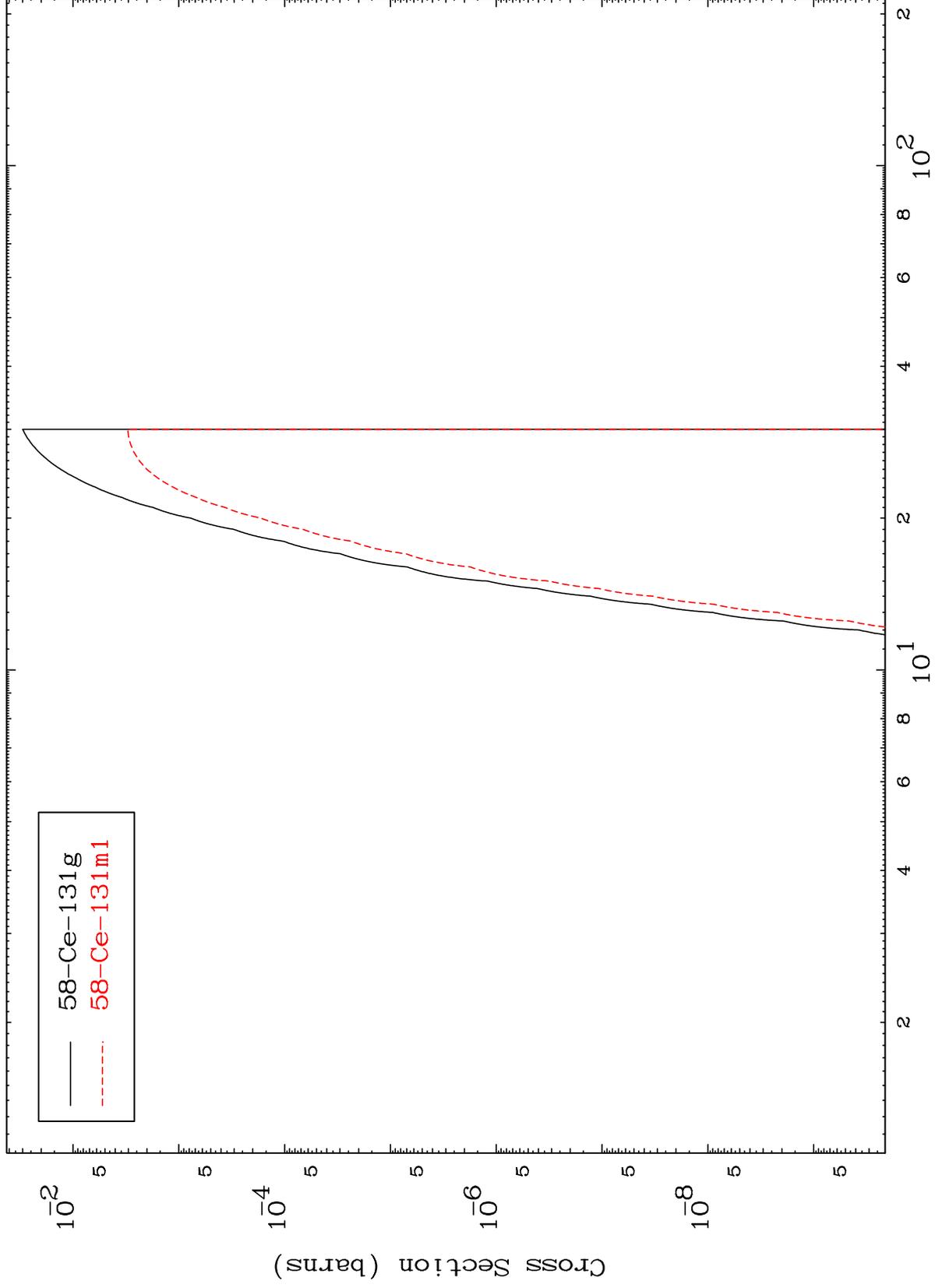
61-Pm-136

MAT 61116

(n,n') p α

61-Pm-136

Radionuclide Production Cross Section



129

Incident Energy (MeV)

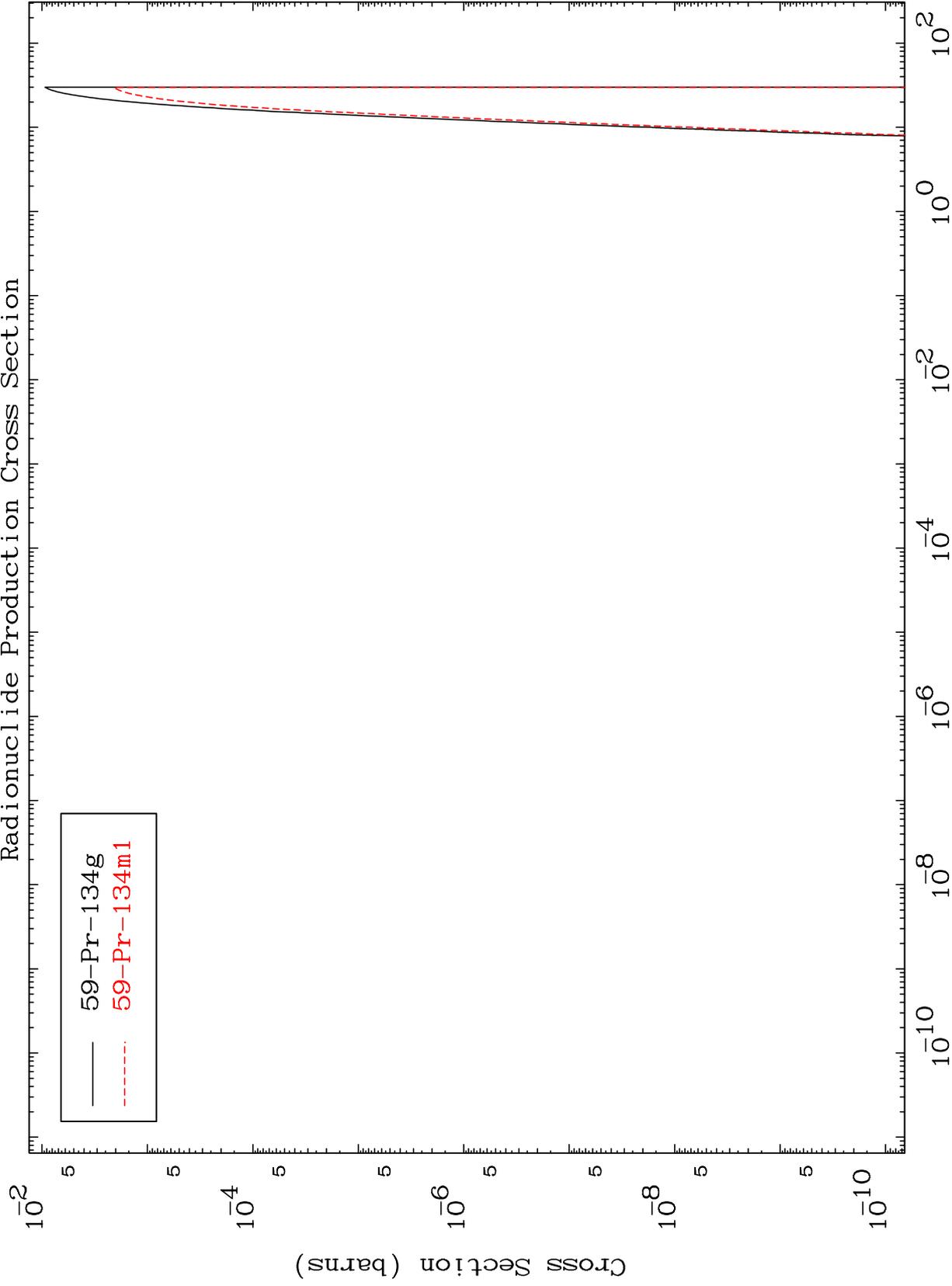
61-Pm-136

MAT 6116

(n,He-3)

61-Pm-136

Radionuclide Production Cross Section



130

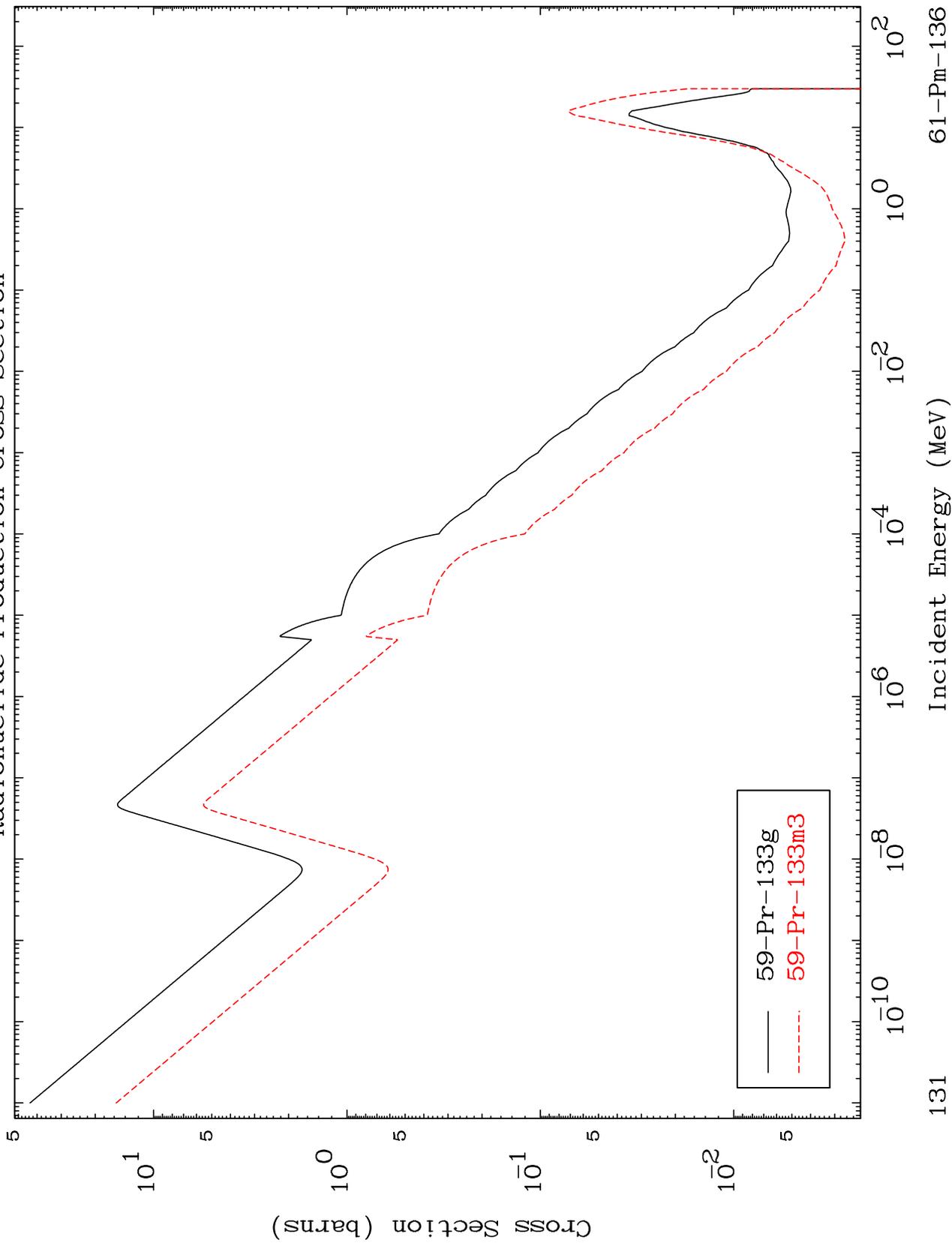
Incident Energy (MeV)

61-Pm-136

MAT 6116

61-Pm-136

(n, α)
Radionuclide Production Cross Section



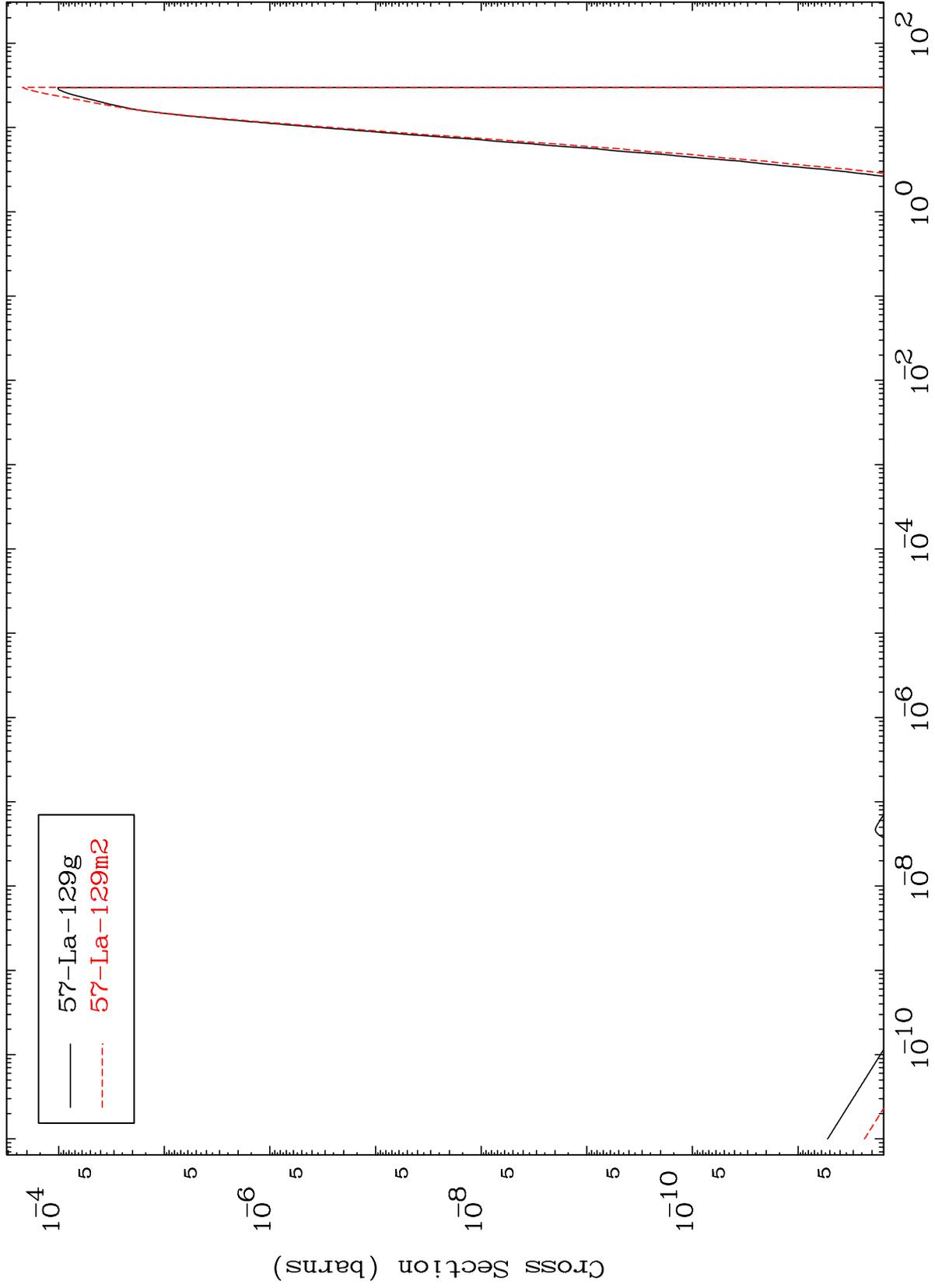
131

MAT 61116

(n,2α)

61-Pm-136

Radionuclide Production Cross Section



132

Incident Energy (MeV)

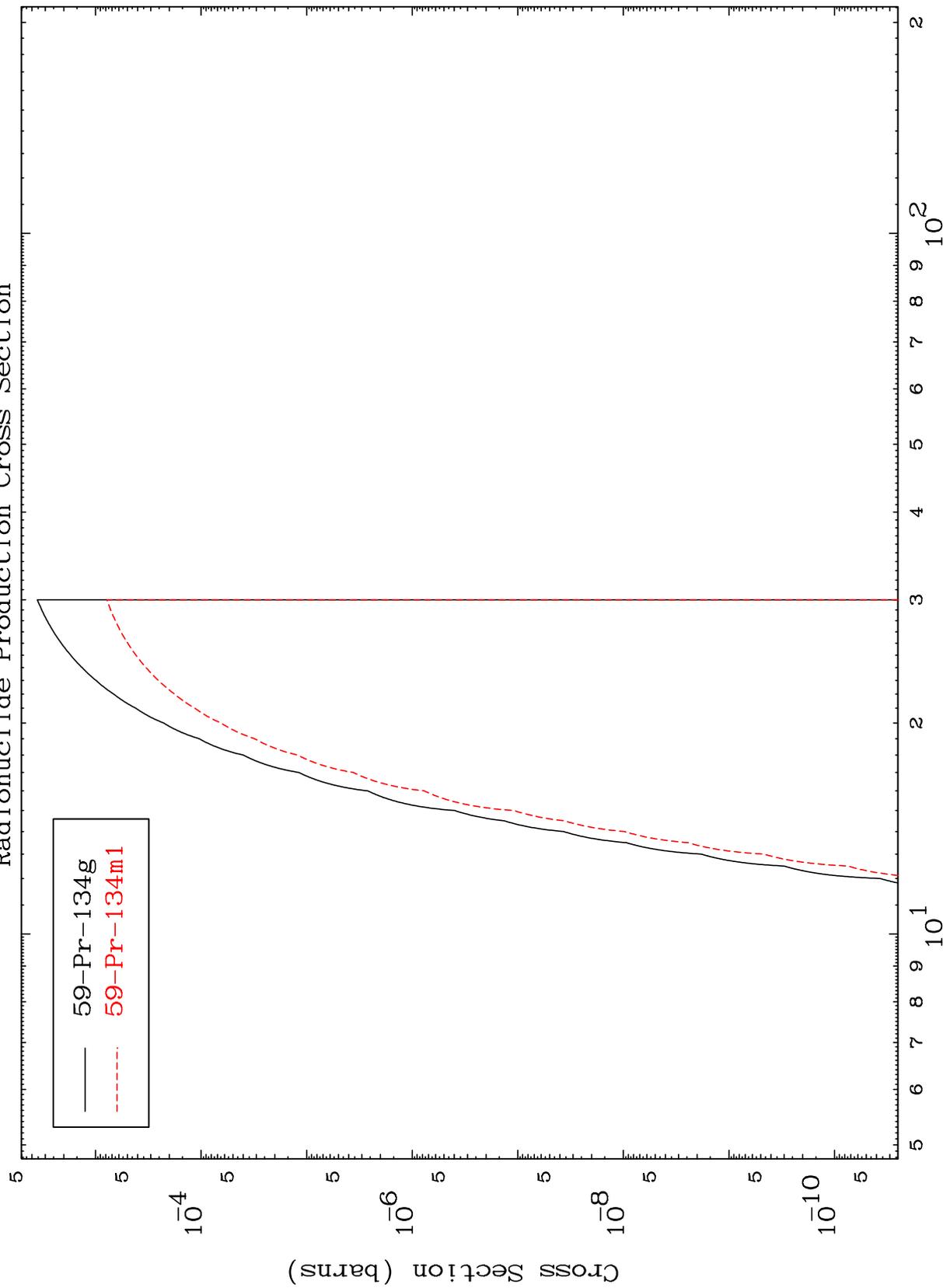
61-Pm-136

MAT 6116

(n,p) d

61-Pm-136

Radionuclide Production Cross Section



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

133

Incident Energy (MeV)

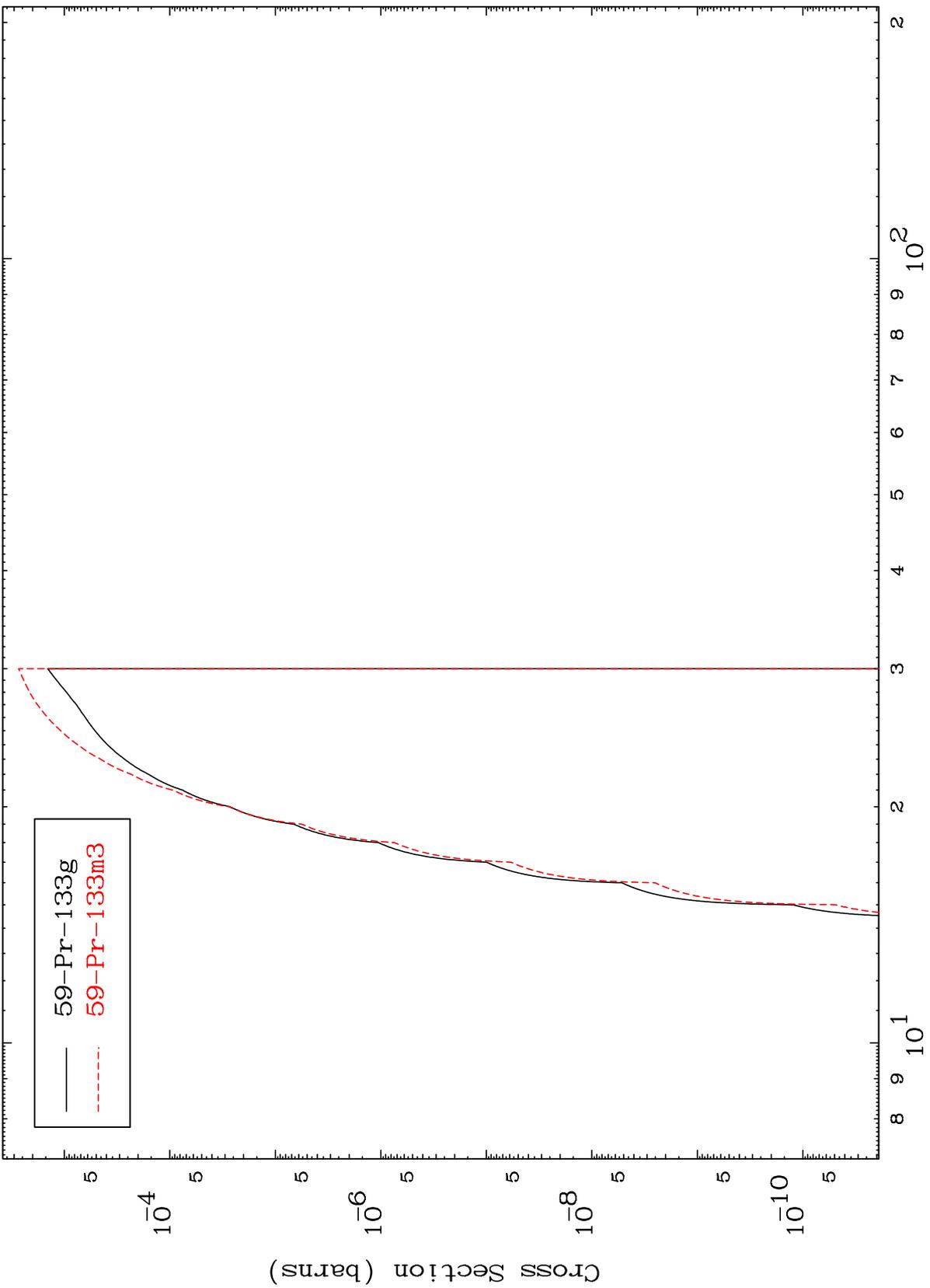
61-Pm-136

MAT 6116

(n,p) t

61-Pm-136

Radionuclide Production Cross Section



134

Incident Energy (MeV)

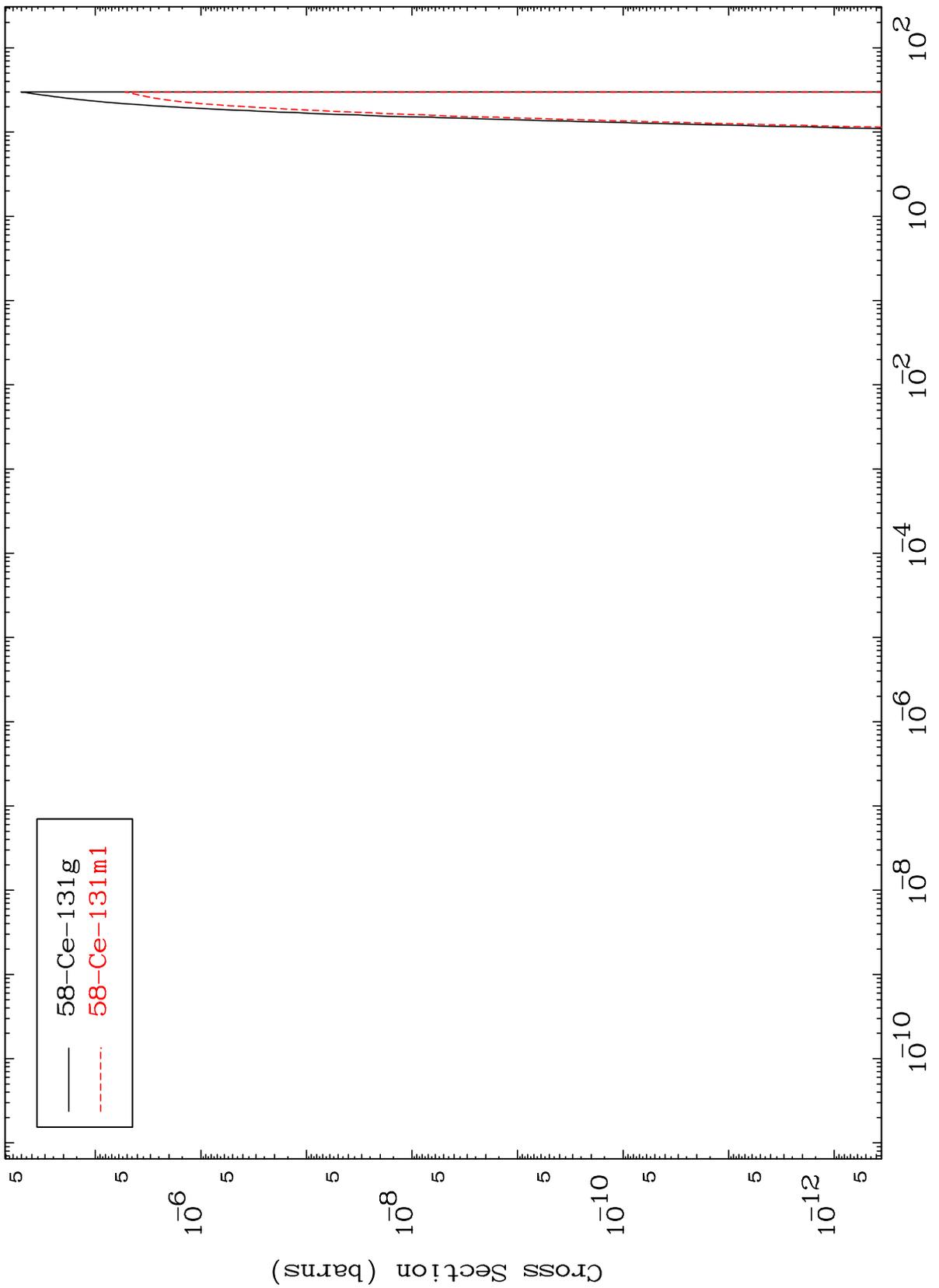
61-Pm-136

MAT 6116

(n,d) α

61-Pm-136

Radionuclide Production Cross Section



135

Incident Energy (MeV)

61-Pm-136