

Program EVALPLOT
(Version 2018-1)

by

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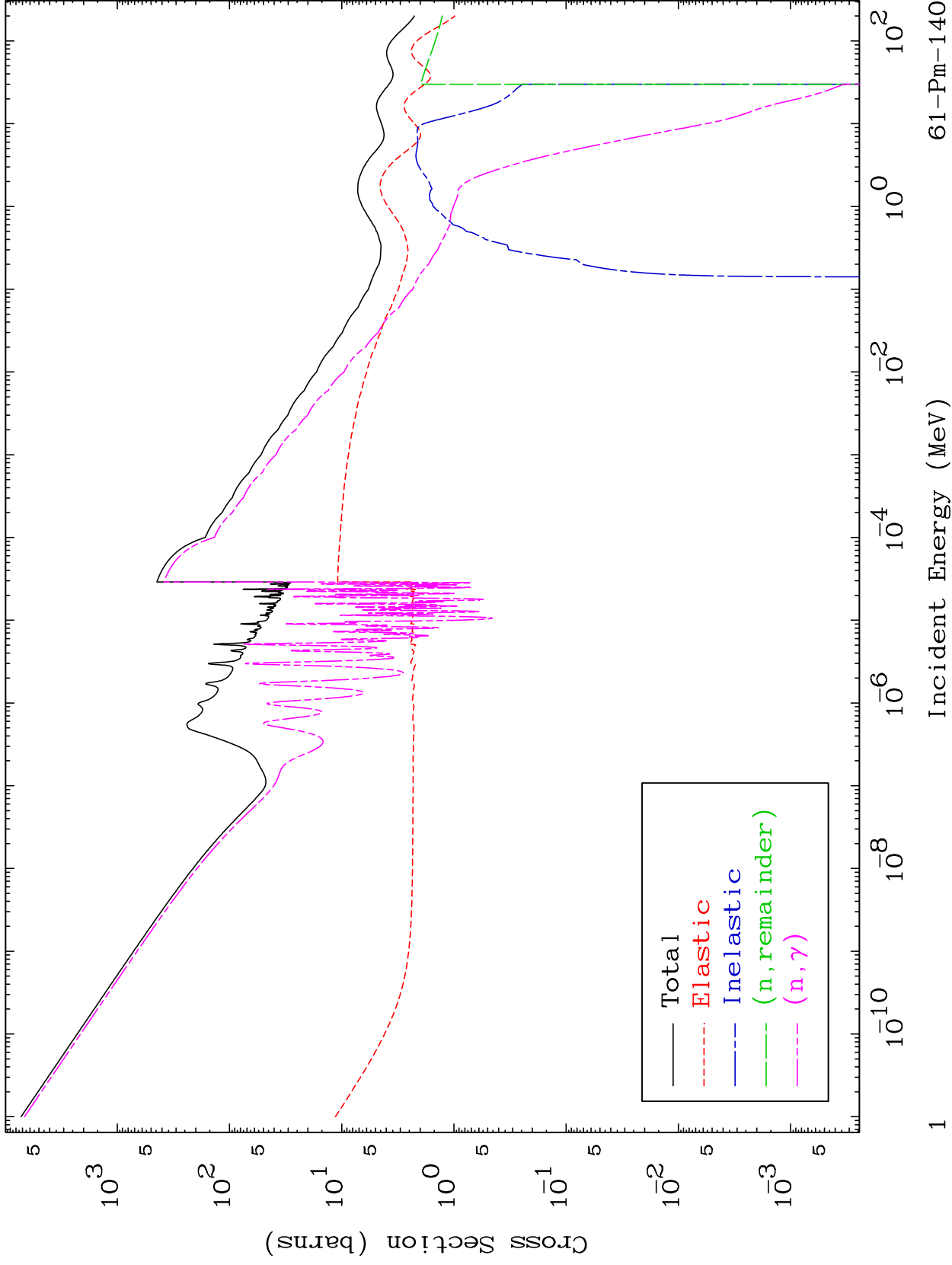
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6128

Major
293 Kelvin Cross Sections

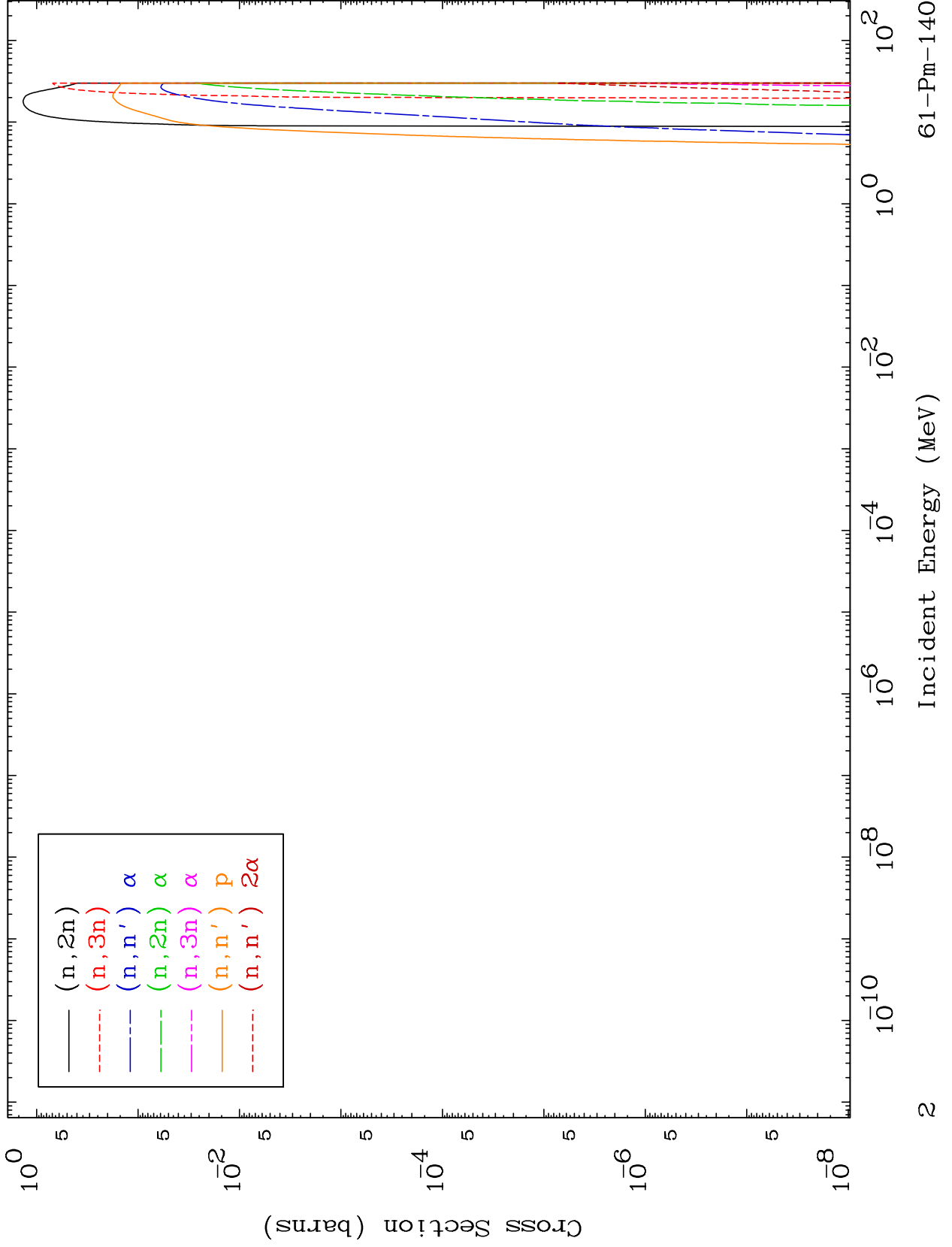
61-Pm-140

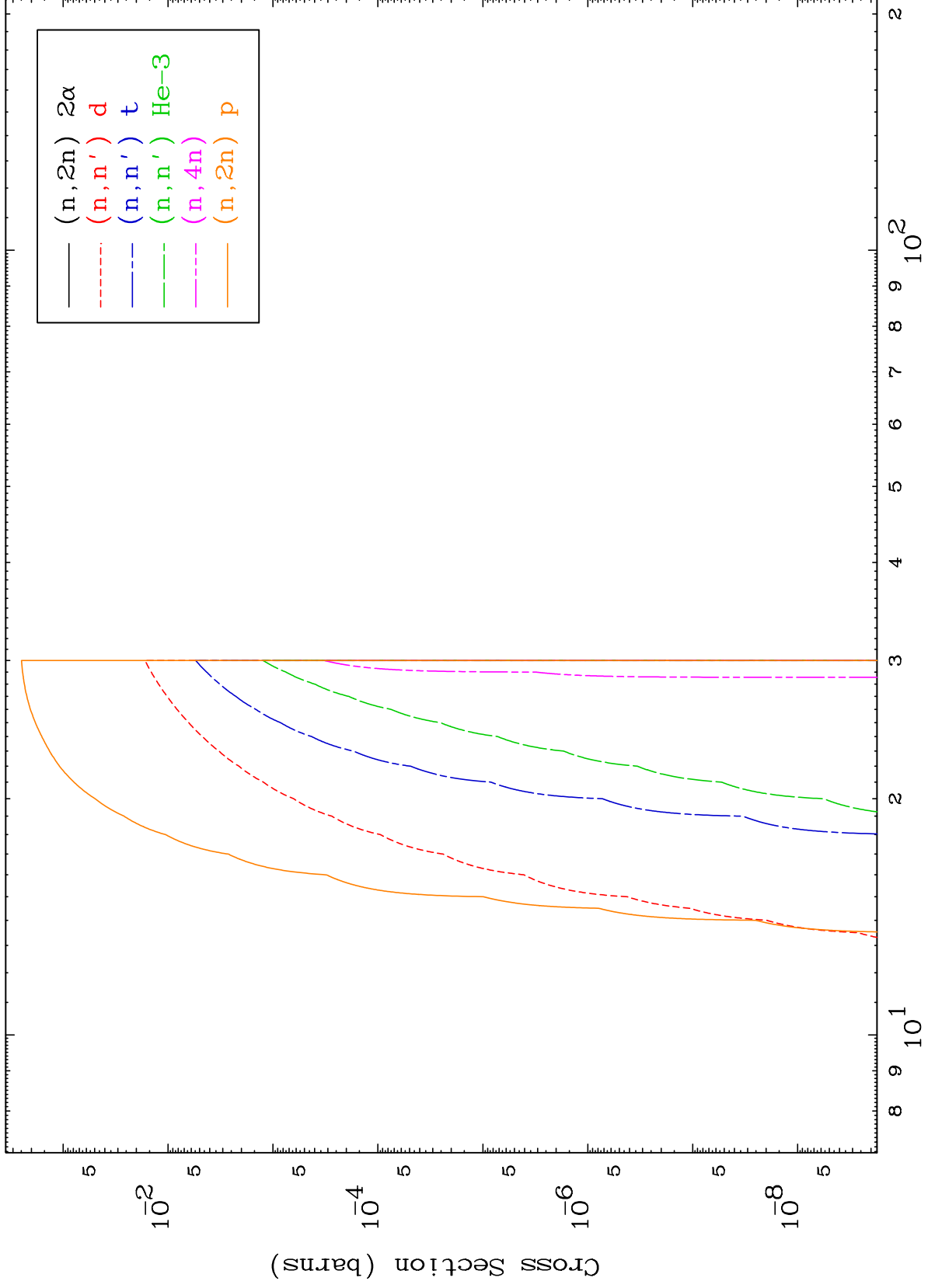


MAT 6128

Neutron Production
293 Kelvin Cross Sections

61-Pm-140

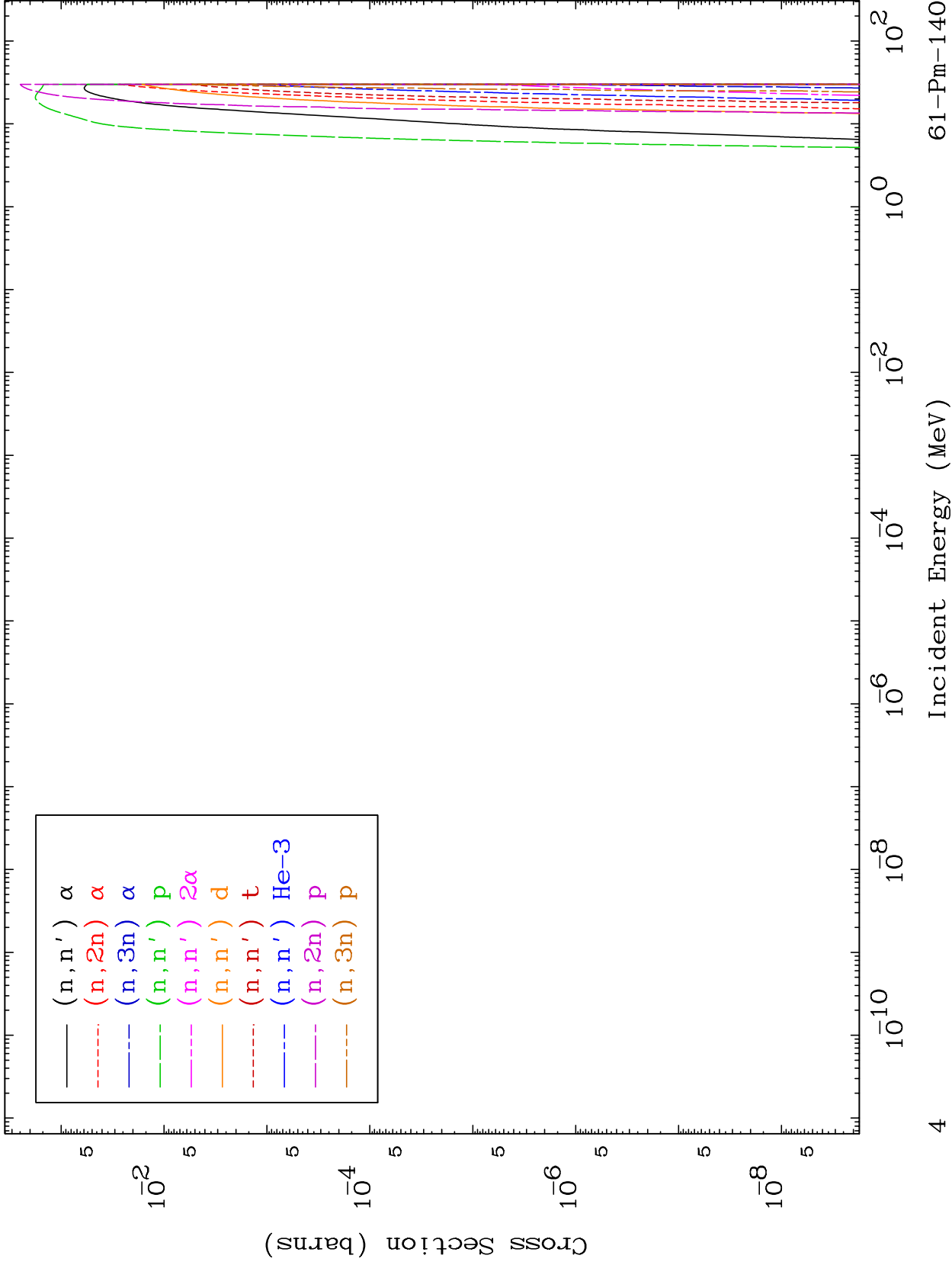




MAT 6128

Charged Particle
293 Kelvin Cross Sections

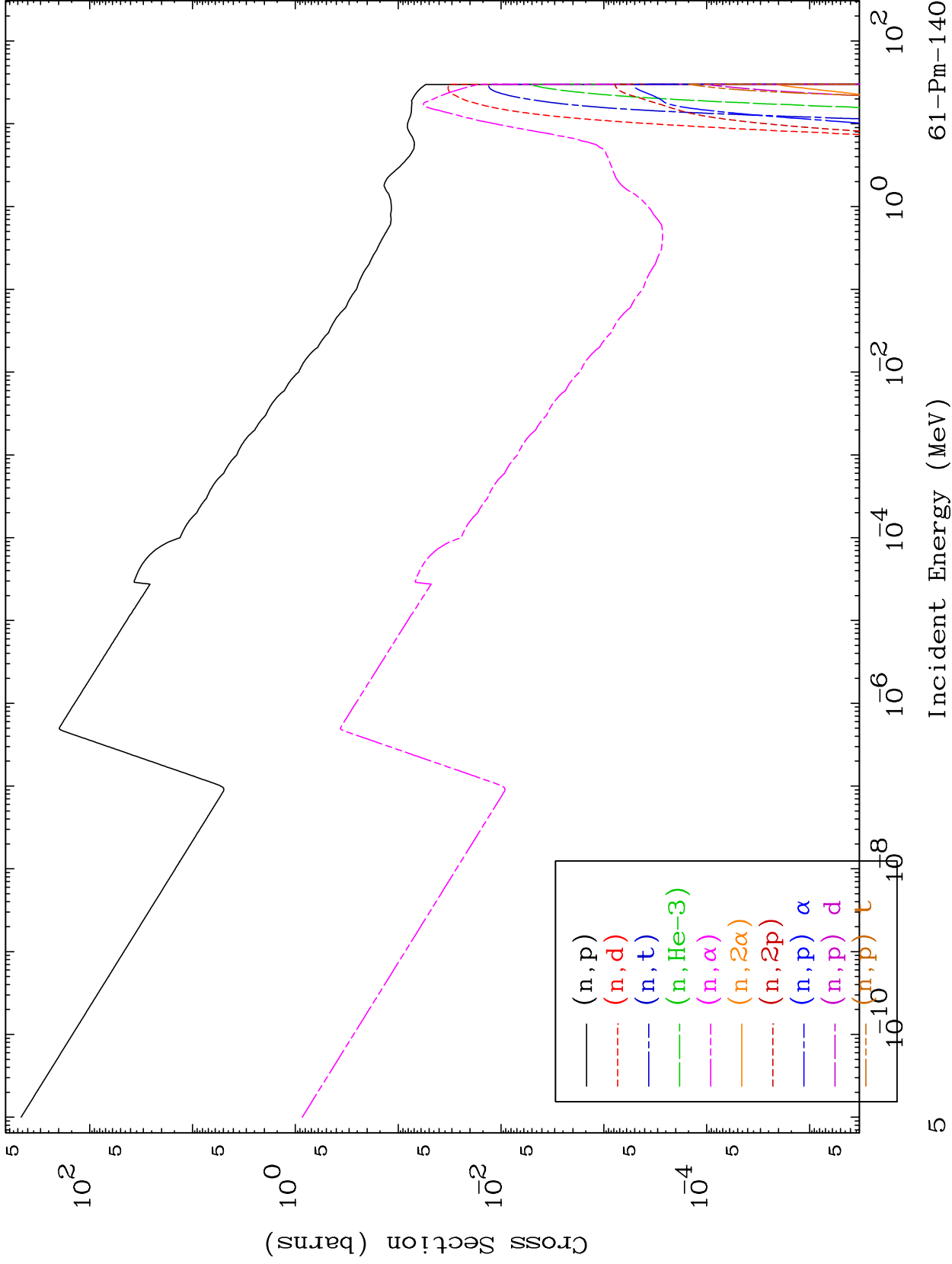
61-Pm-140



MAT 6128

Charged Particle
293 Kelvin Cross Sections

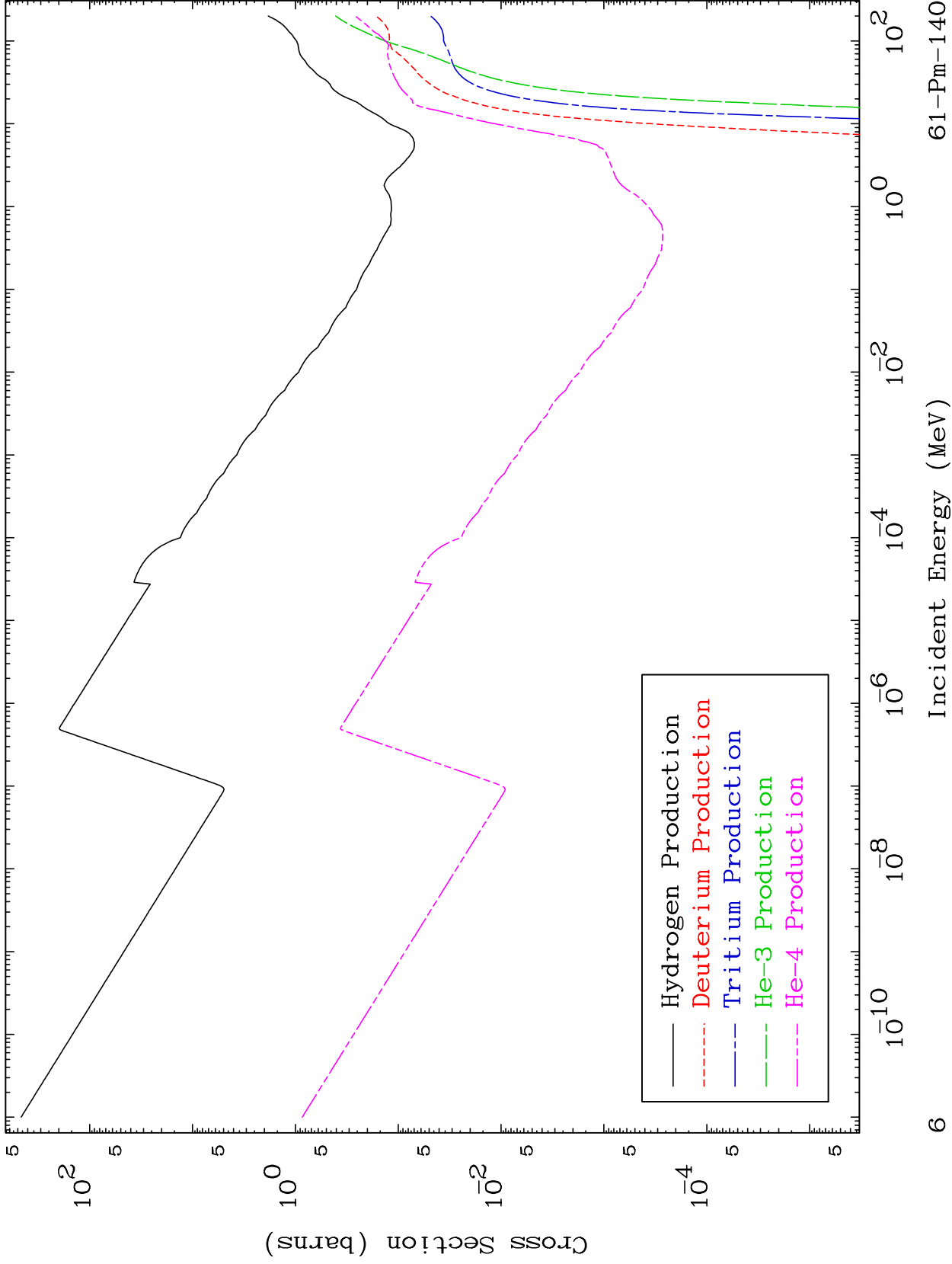
61-Pm-140



MAT 6128

Particle Production
293 Kelvin Cross Sections

61-Pm-140

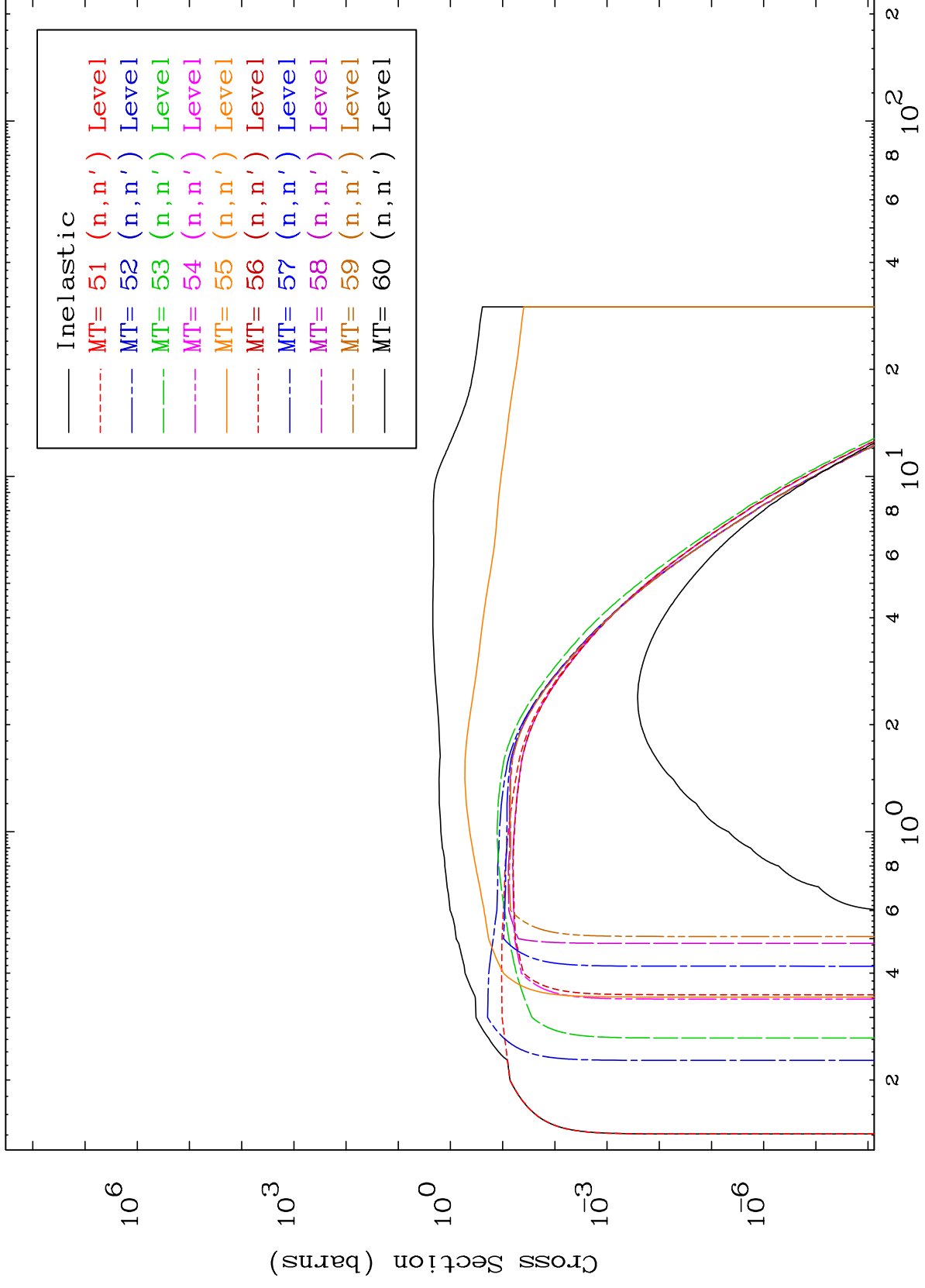


MAT 6128

(n,n') Level

61-Pm-140

293 Kelvin Cross Sections

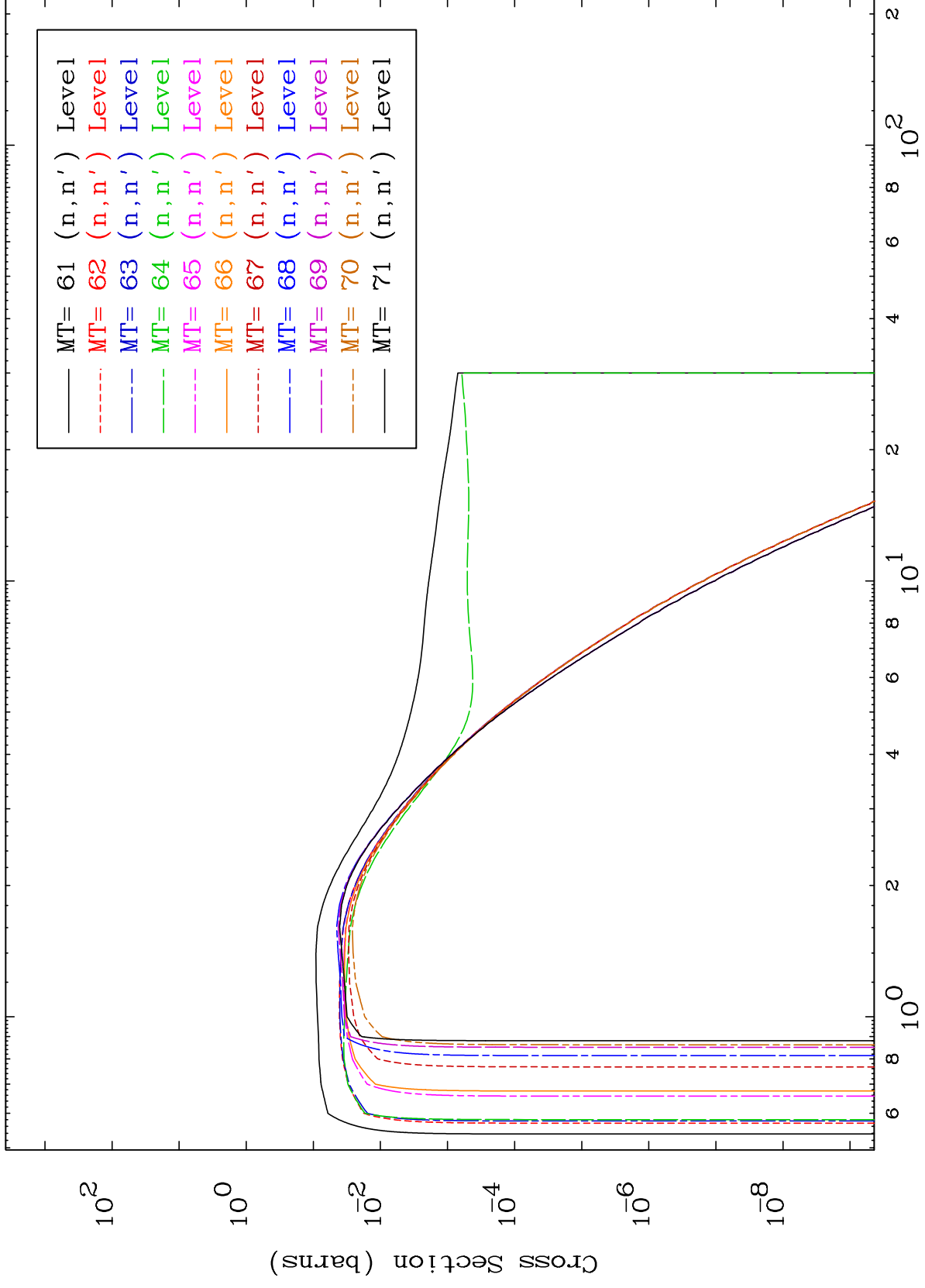


MAT 6128

(n,n') Level

61-Pm-140

293 Kelvin Cross Sections



8

Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,n') Level

61-Pm-140

293 Kelvin Cross Sections

10^6

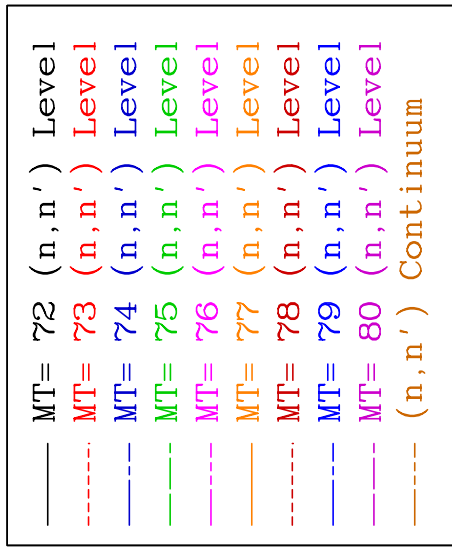
10^3

10^0

10^{-3}

10^{-6}

Cross Section (barns)



10^0

2

4

6

8

10^1

2

4

6

8

10^2

9

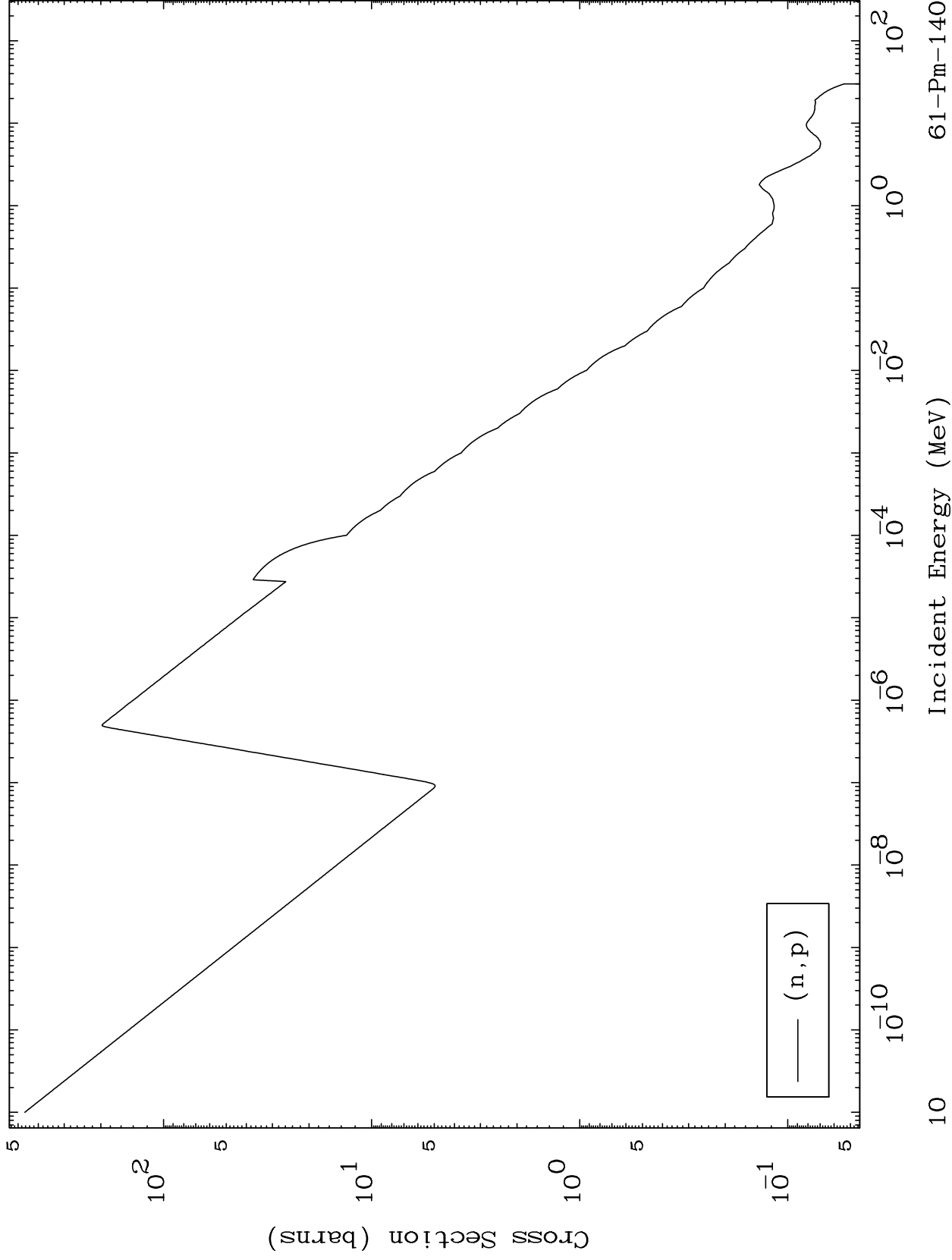
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,p) Levels
293 Kelvin Cross Sections

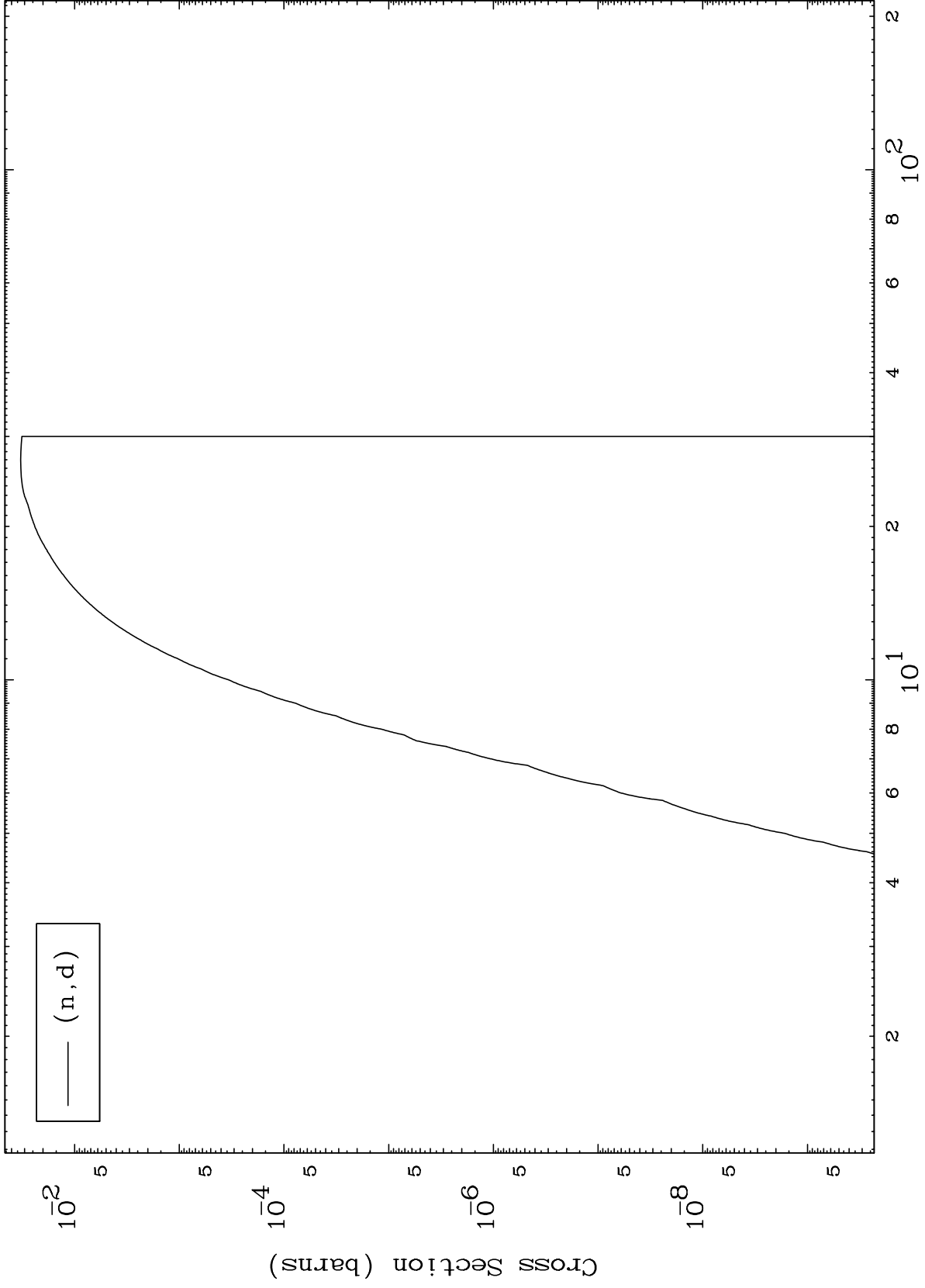
61-Pm-140



MAT 6128

(n,d) Levels
293 Kelvin Cross Sections

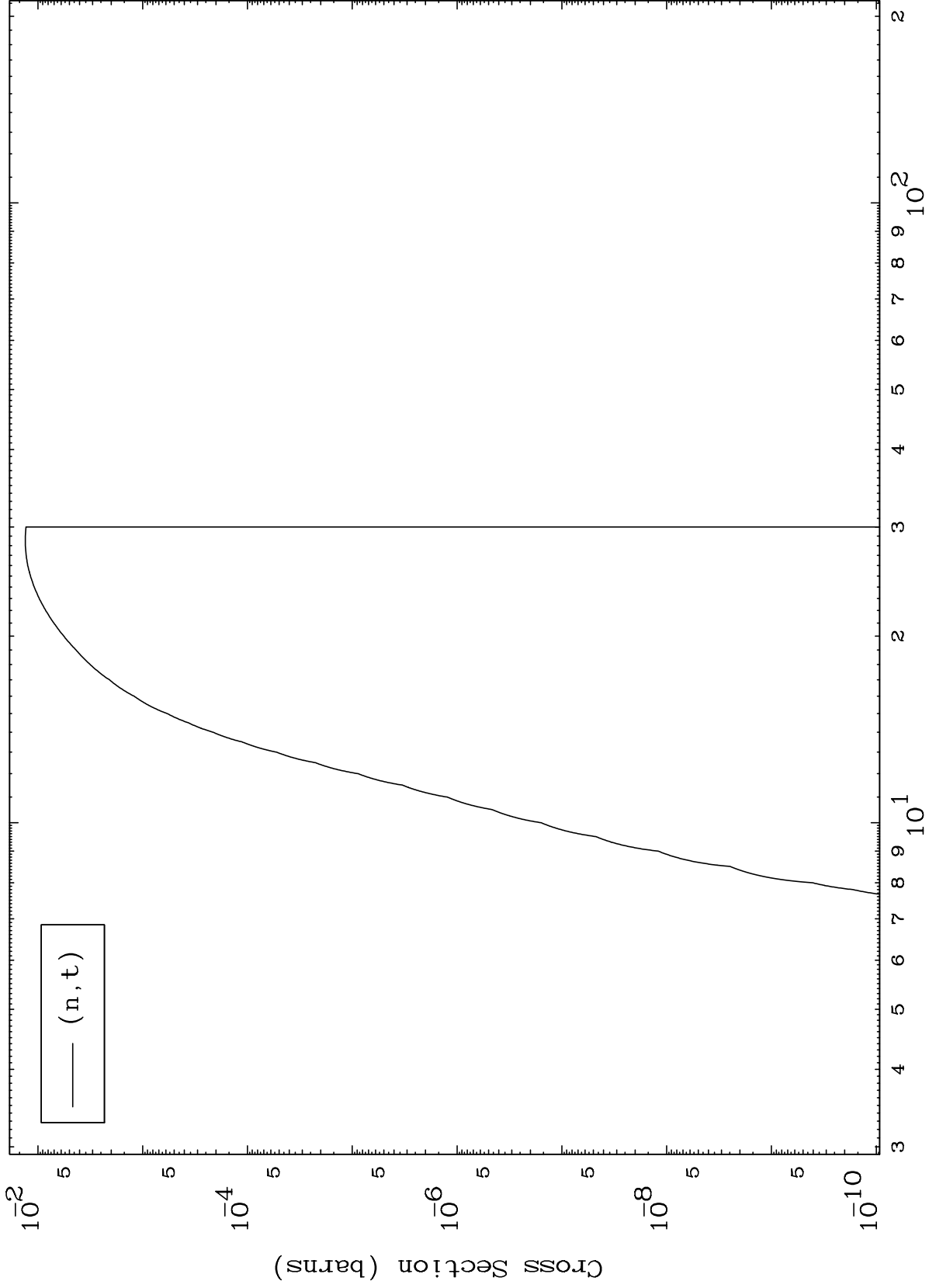
61-Pm-140



MAT 6128

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-140



12

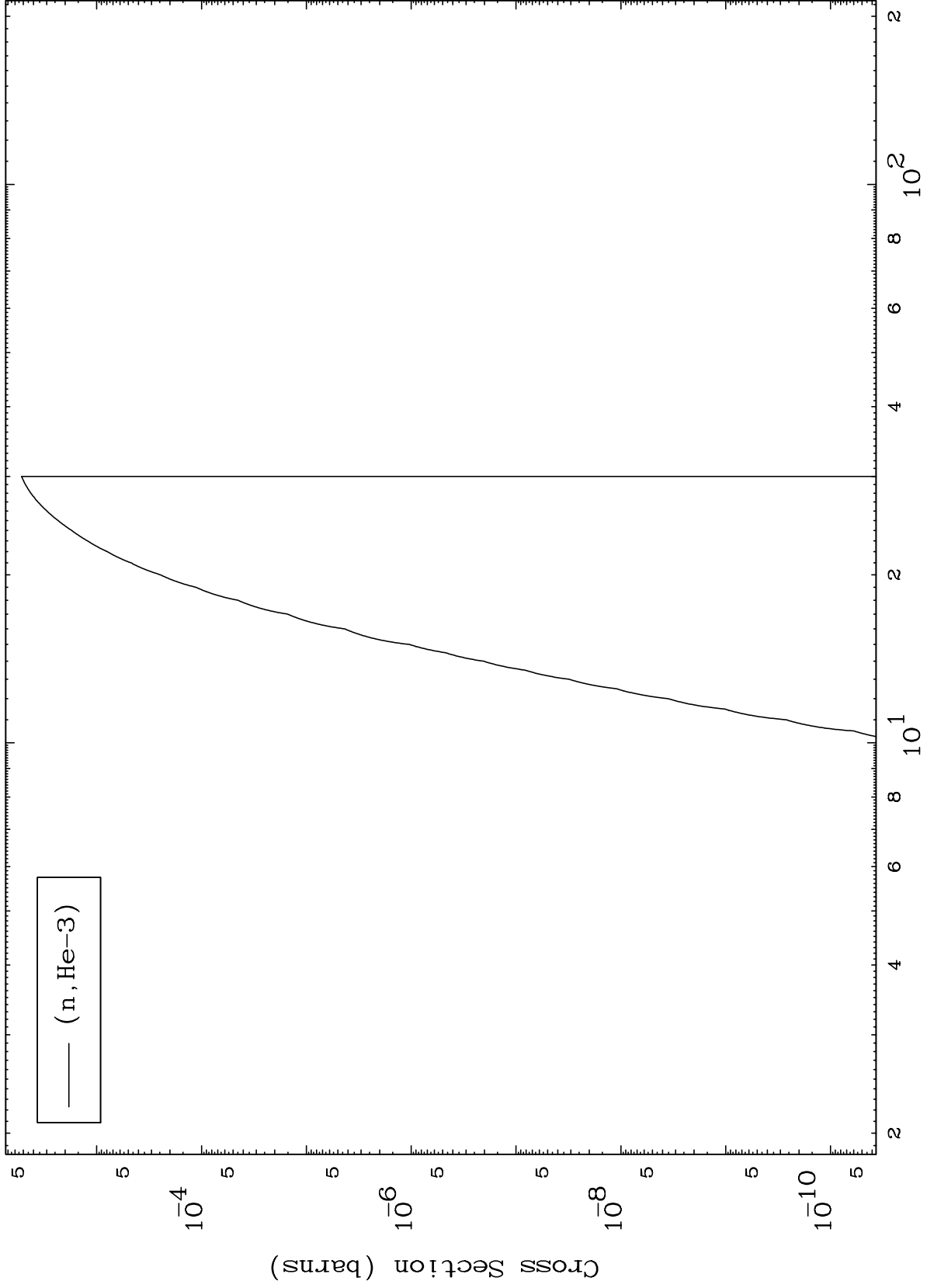
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-140



13

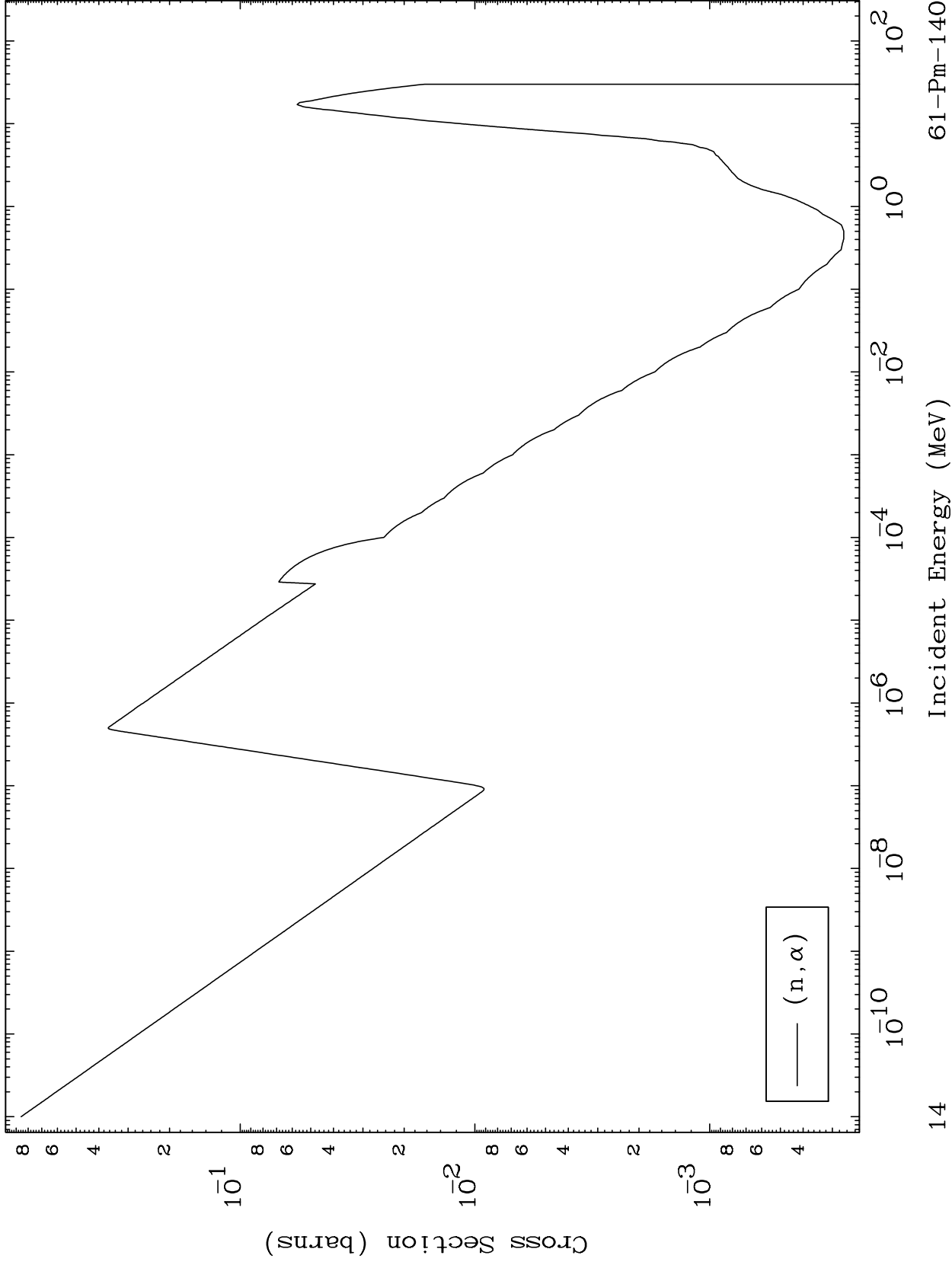
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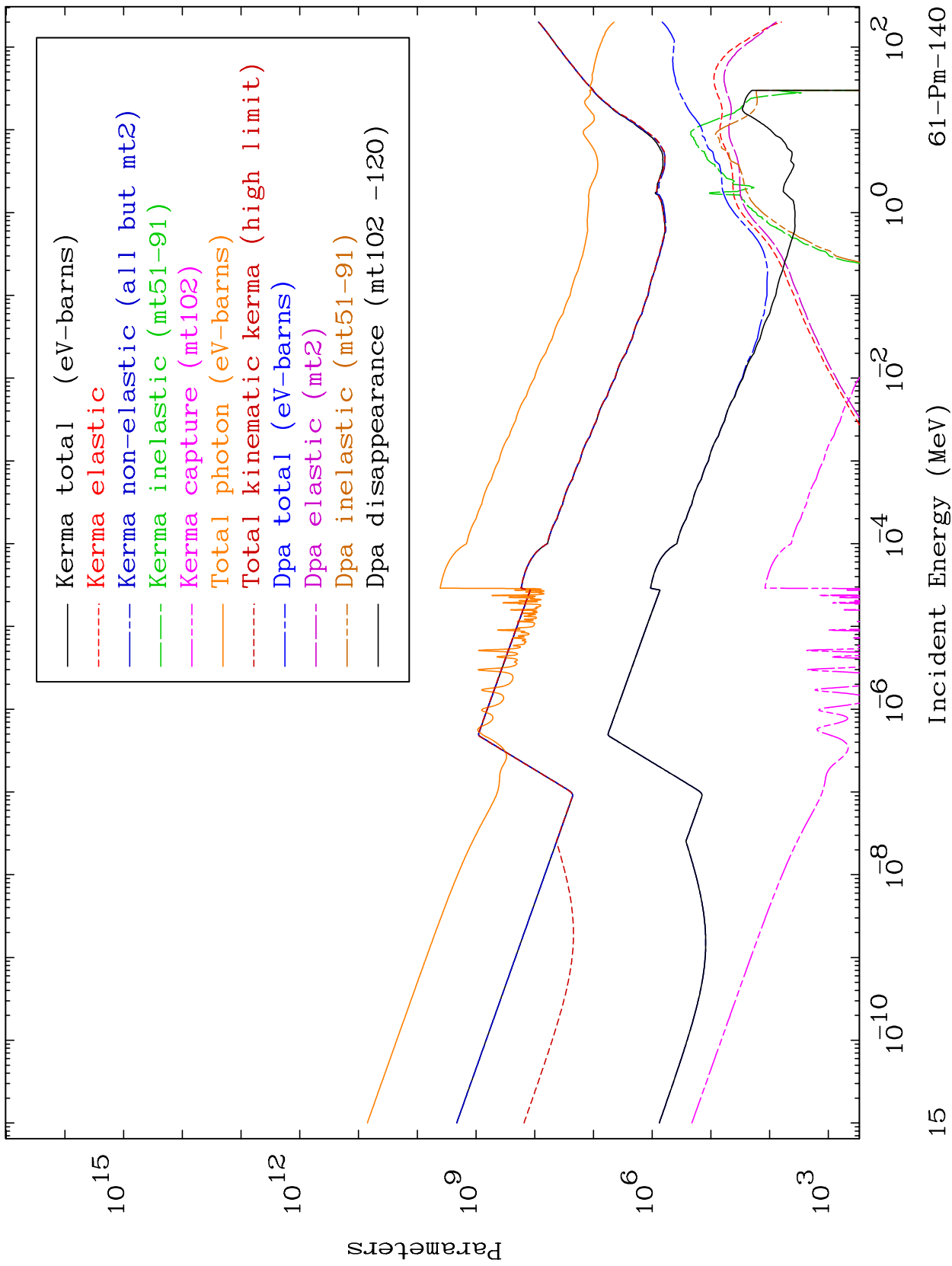
61-Pm-140

MAT 6128

(n,α) Levels
293 Kelvin Cross Sections

61-Pm-140

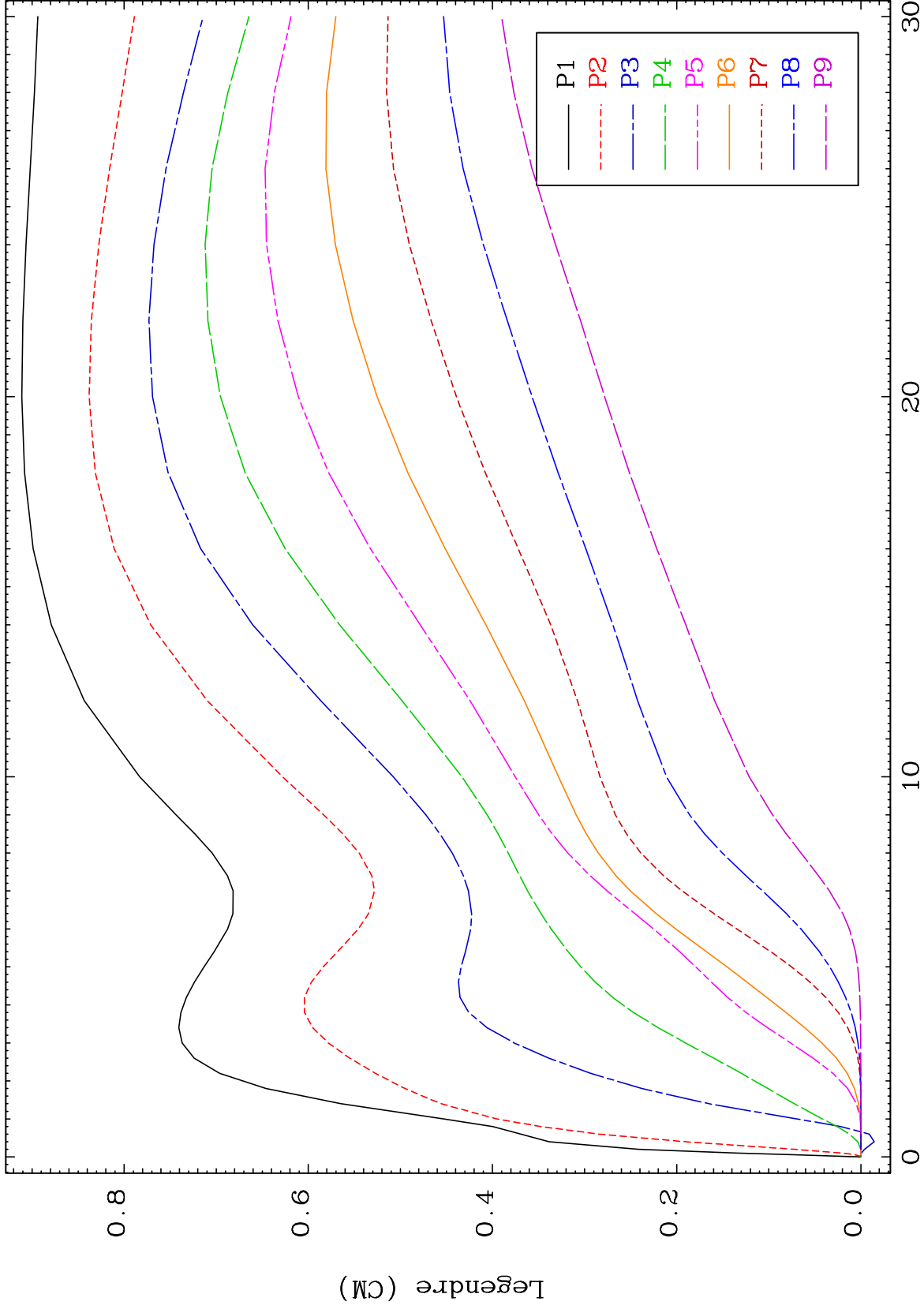




MAT 6128

Elastic Legendre Coefficients

61-Pm-140



16

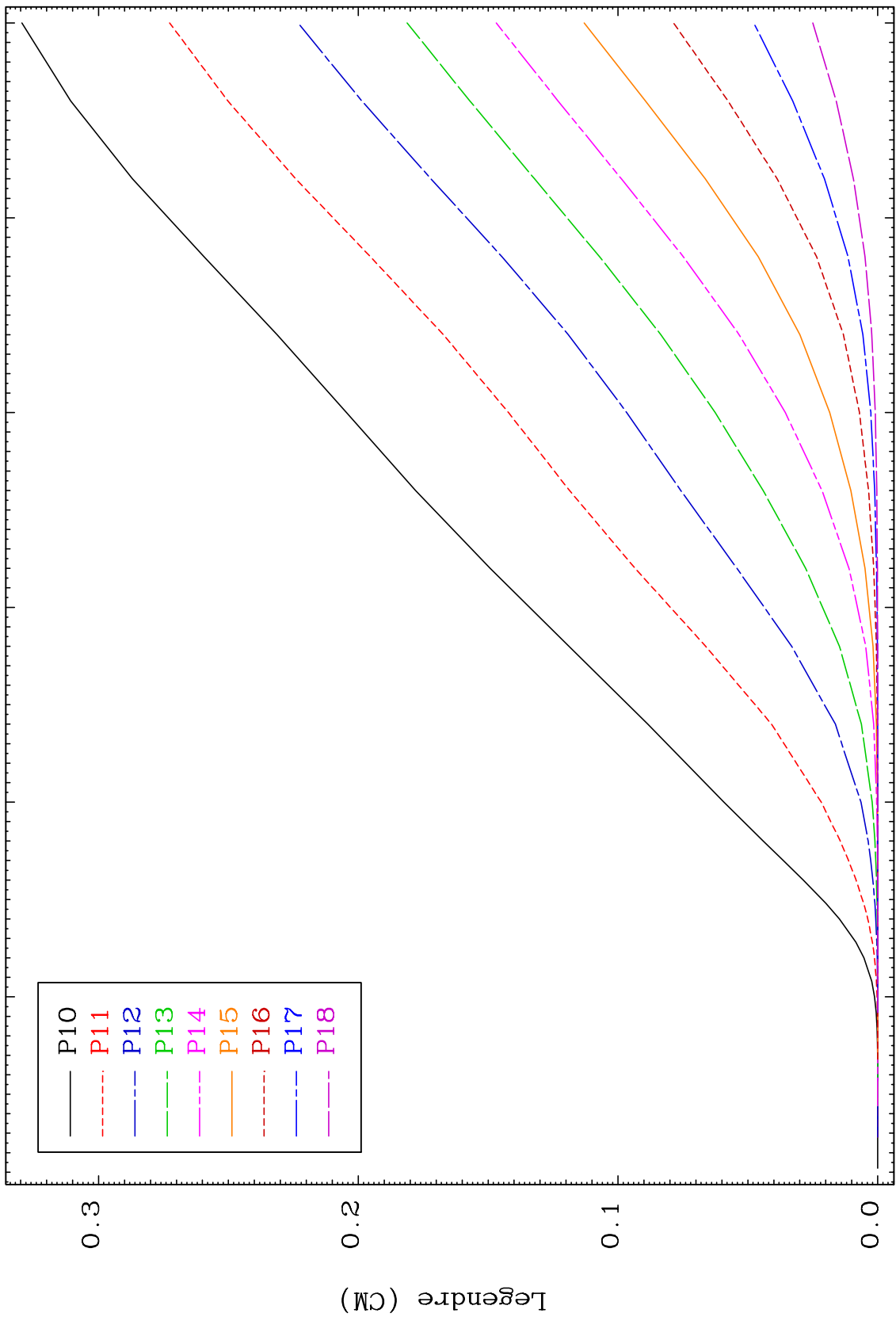
Incident Energy (MeV)

61-Pm-140

MAT 6128

Elastic Legendre Coefficients

61-Pm-140



17

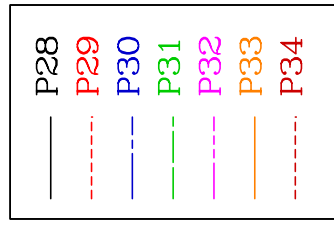
Incident Energy (MeV)

61-Pm-140

MAT 6128

Elastic Legendre Coefficients

61-Pm-140



$\times 10^{-6}$

1.2

Legendre (CM)

0.8

0.4

0.0

15

20

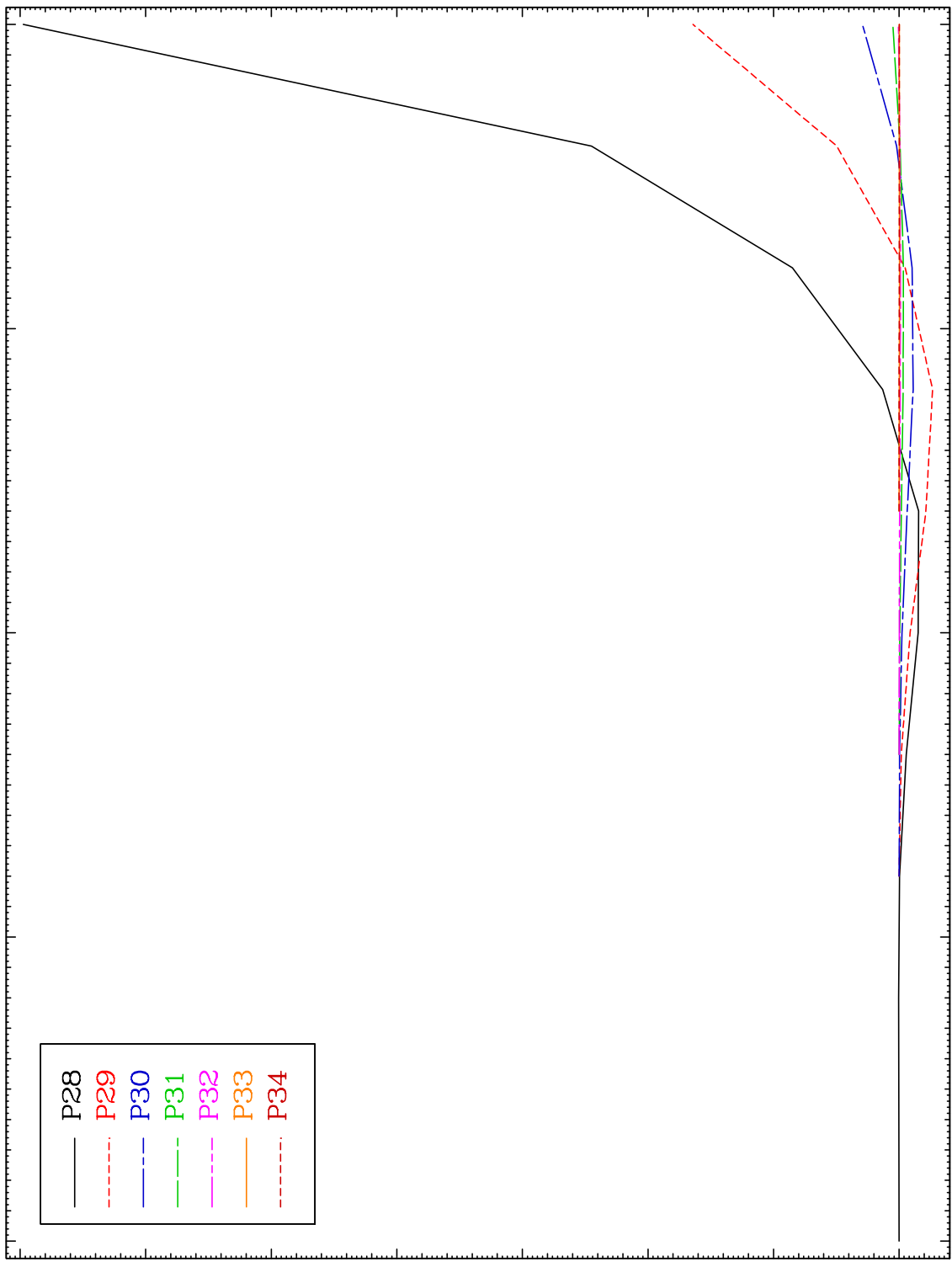
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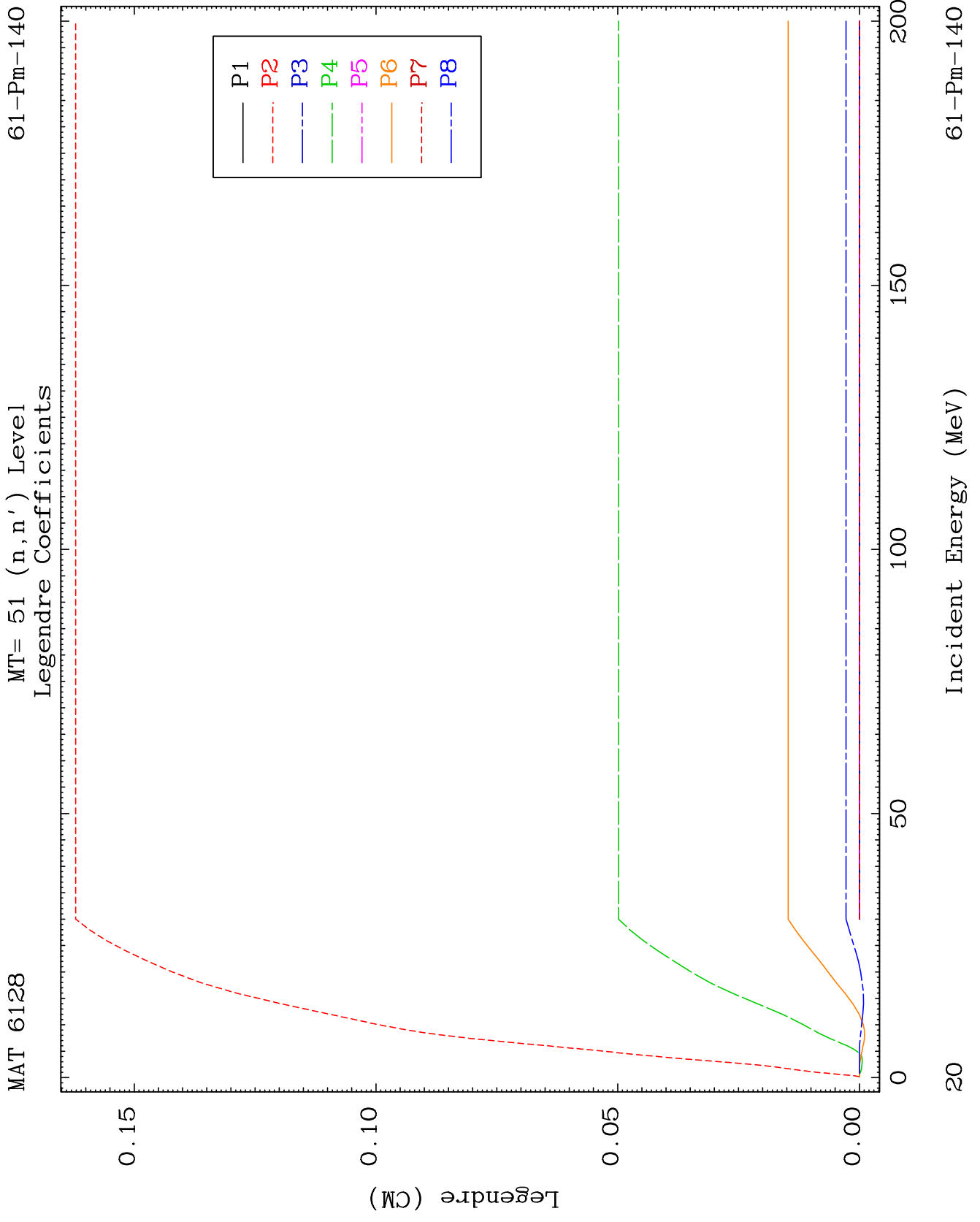
30

19

Incident Energy (MeV)

61-Pm-140

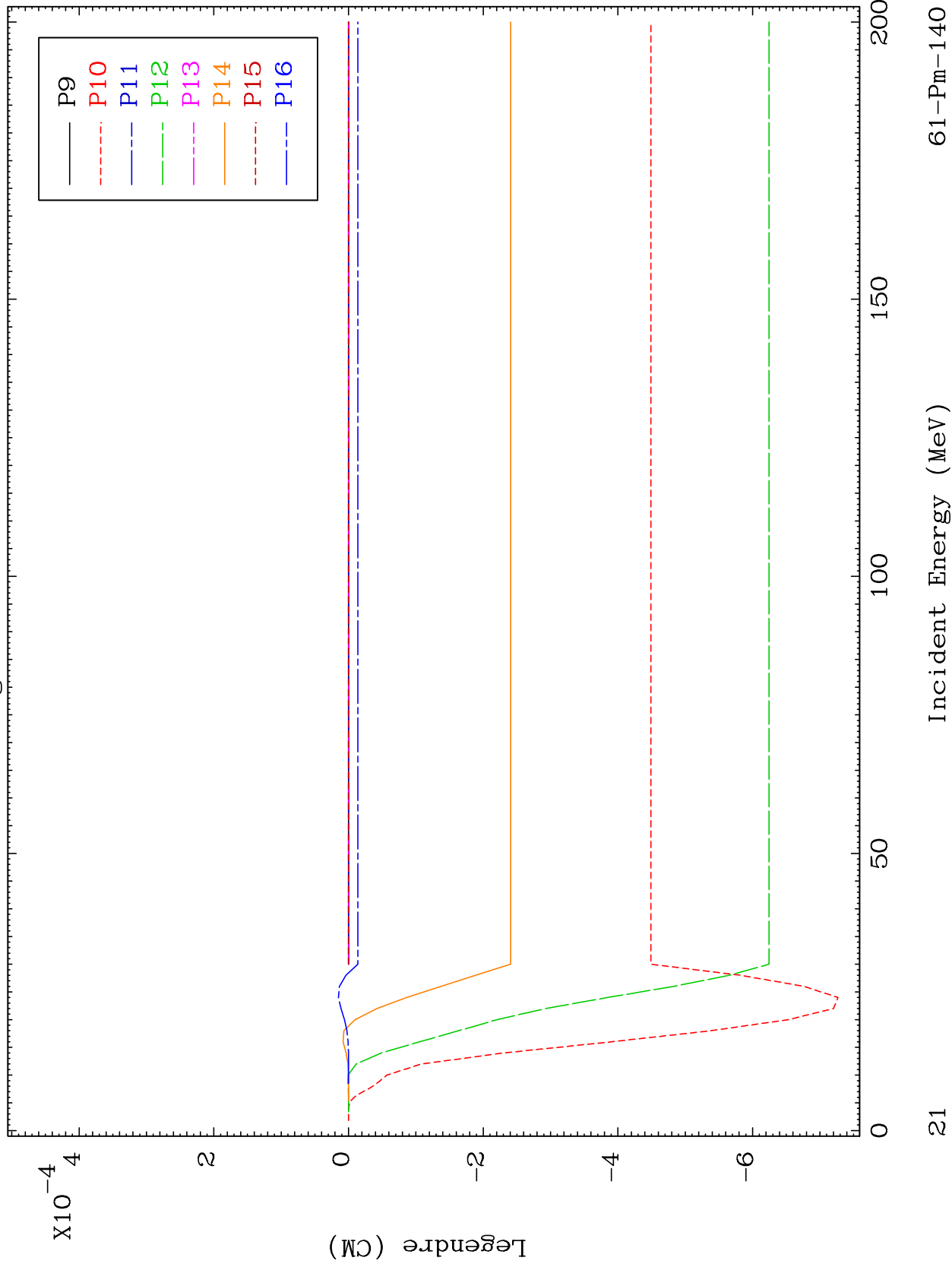




MAT 6128

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

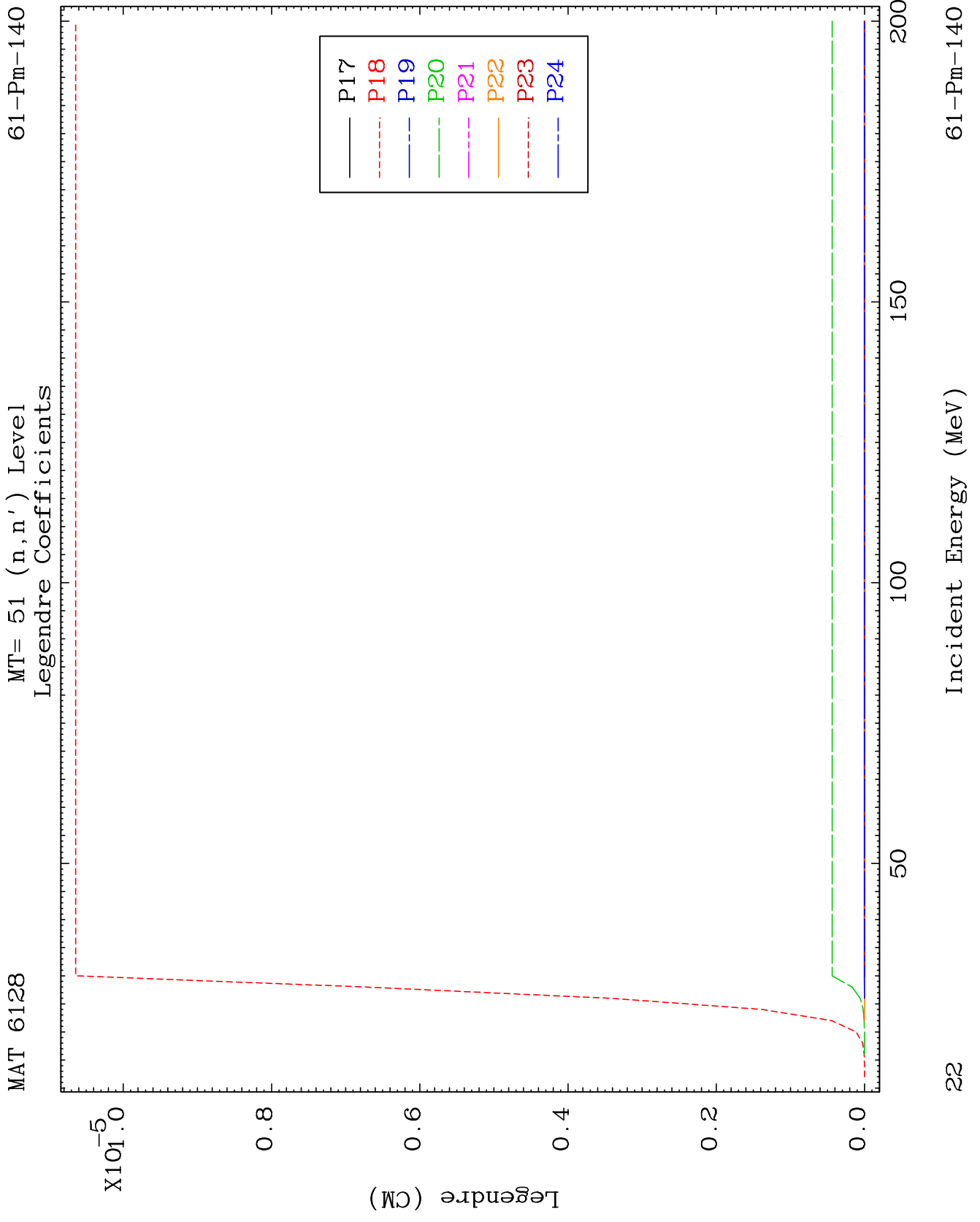
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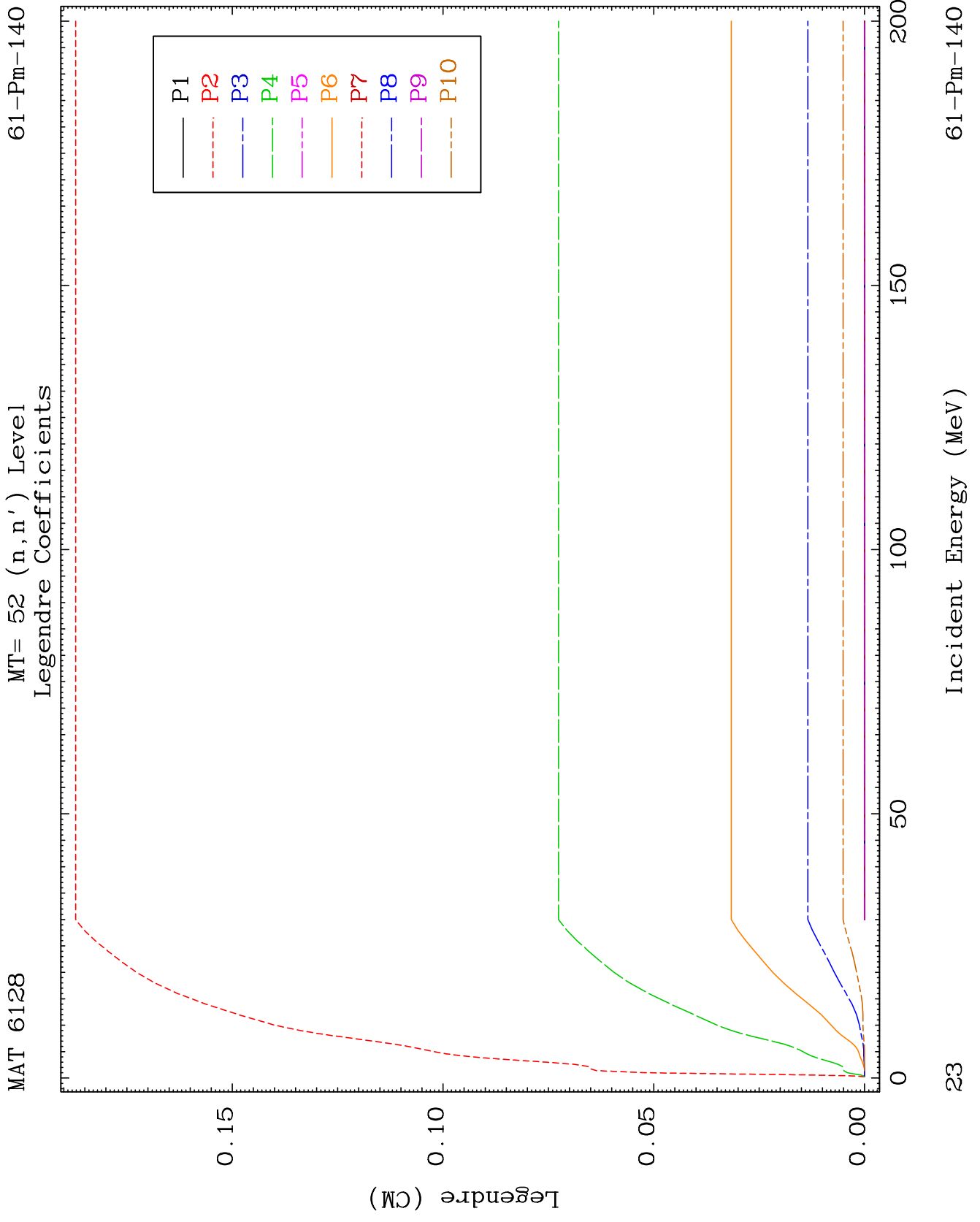


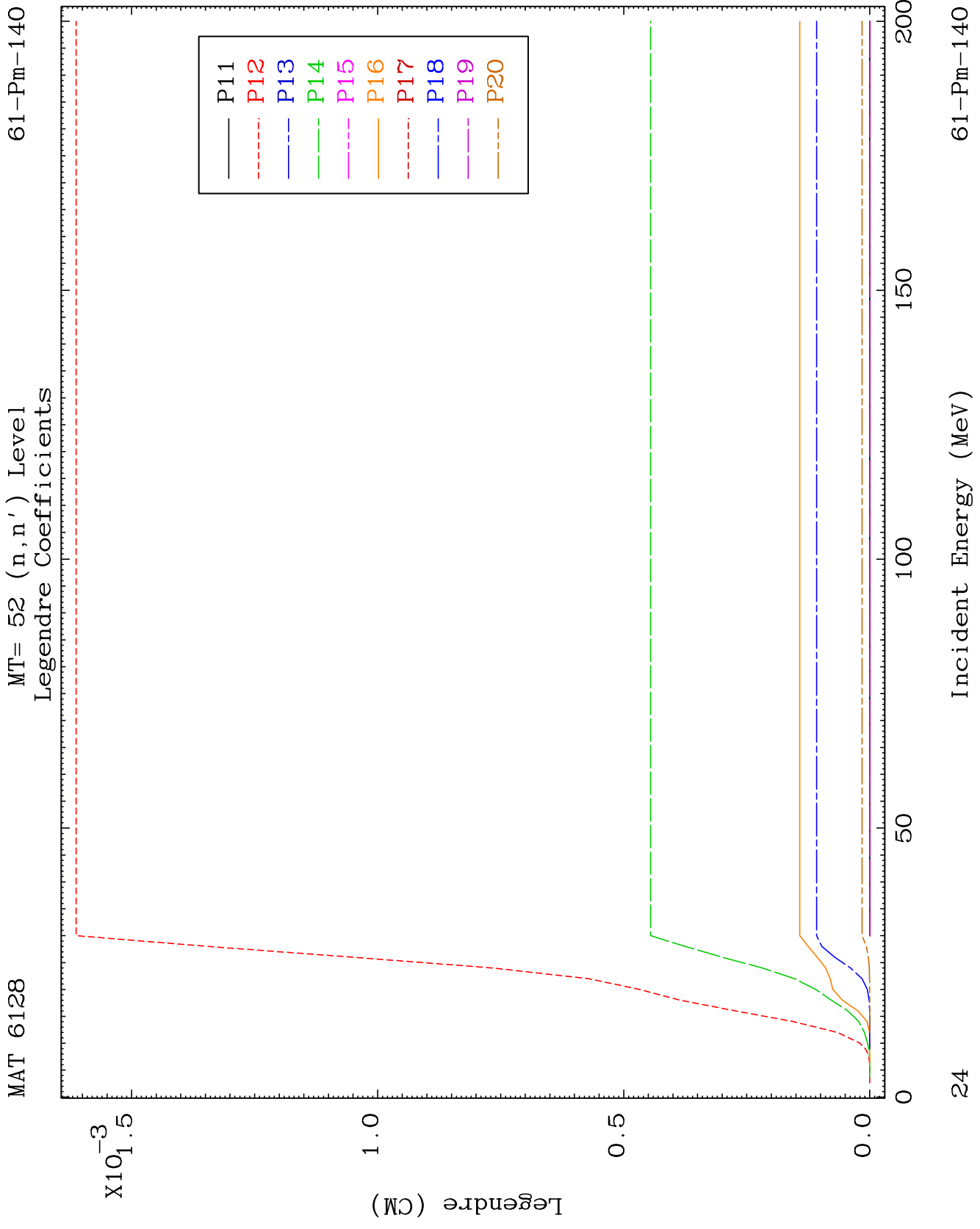
21

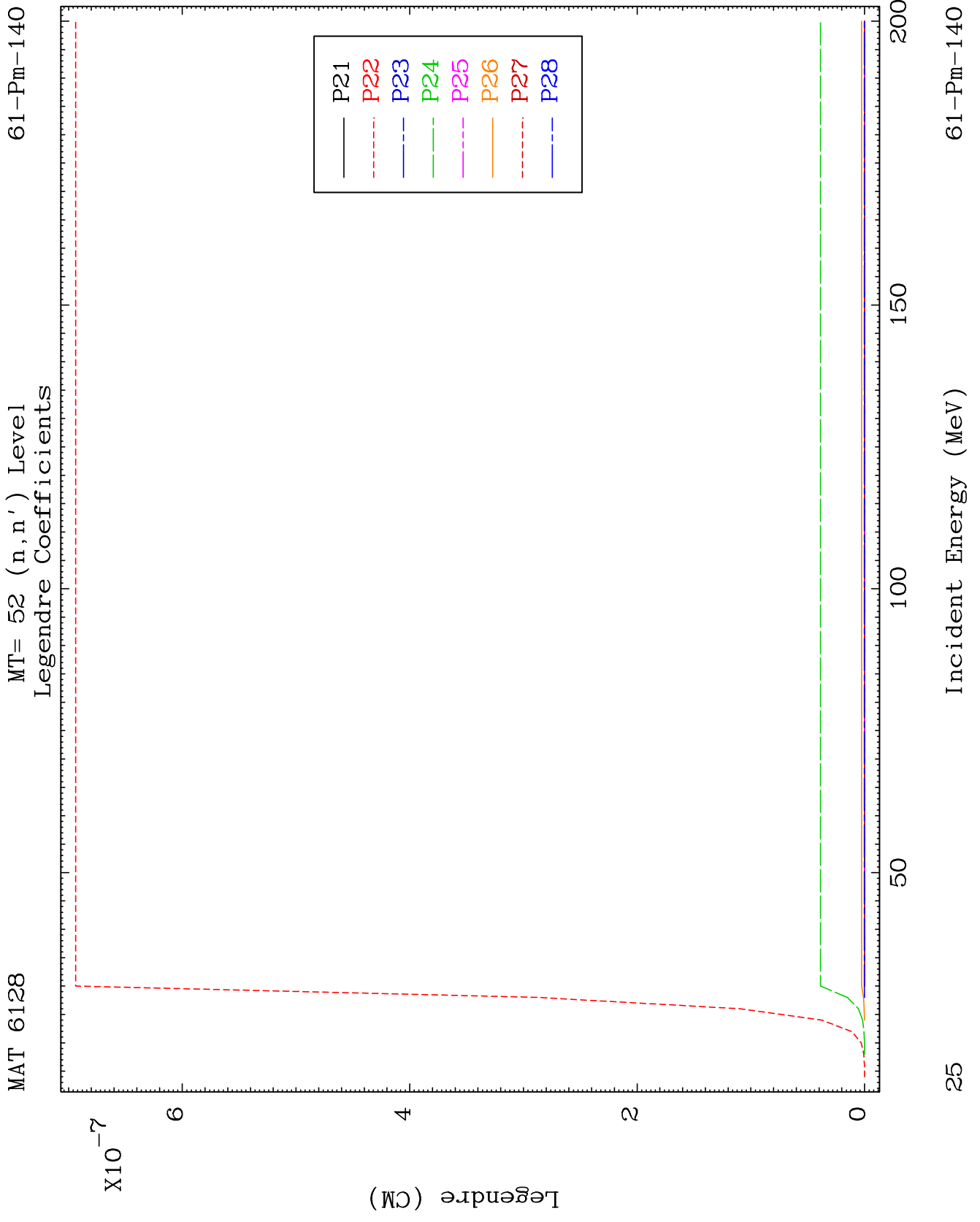
Incident Energy (MeV)

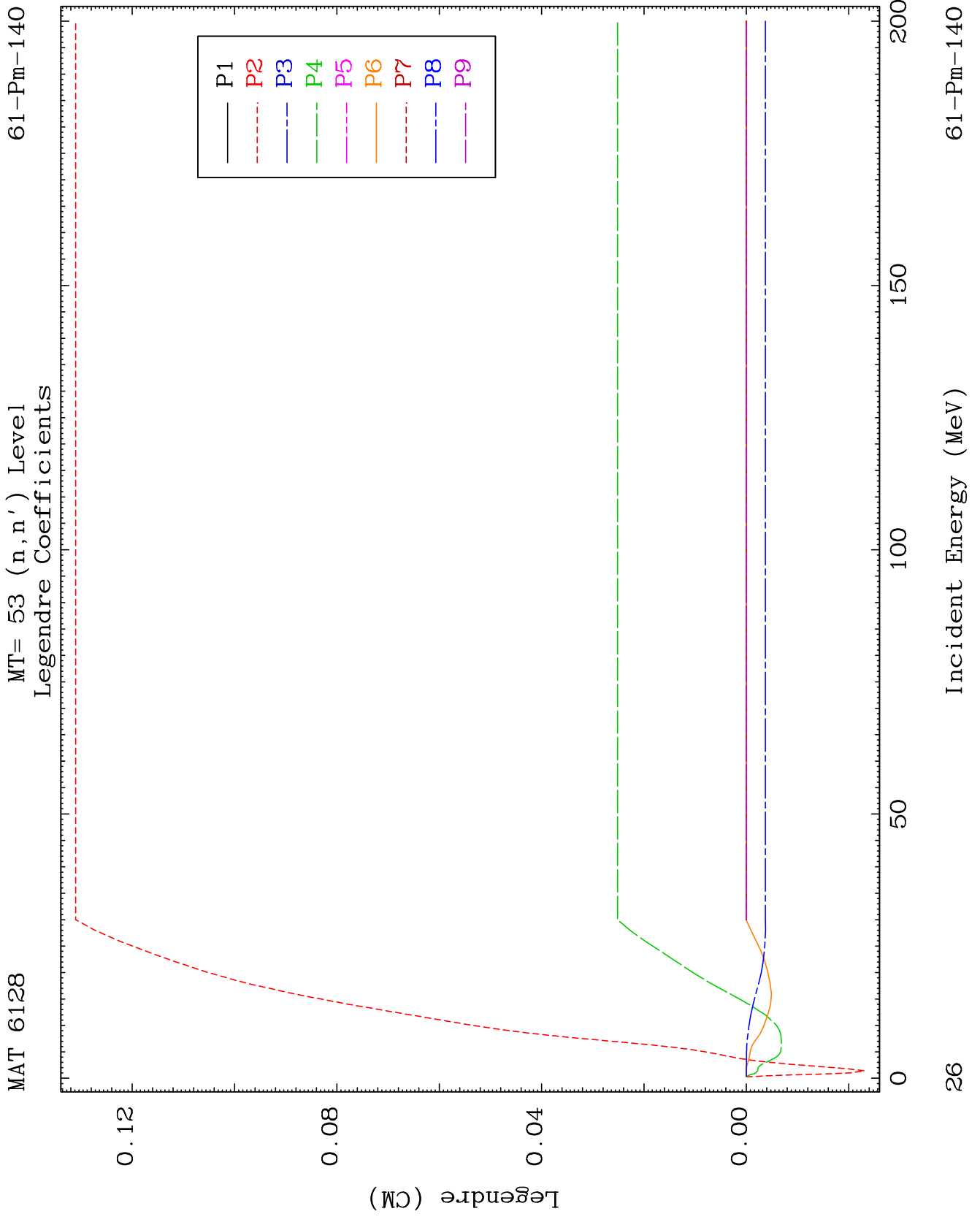
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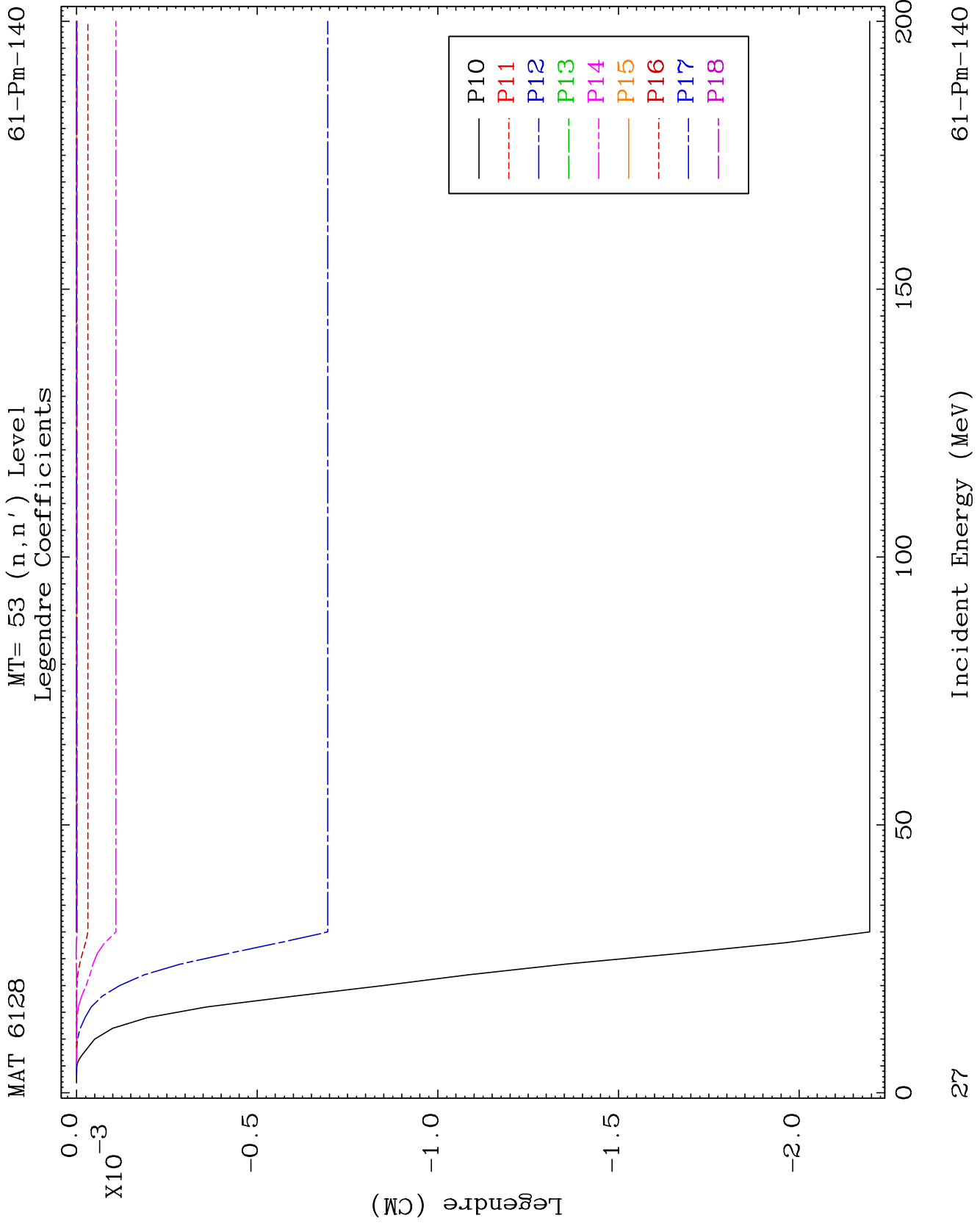


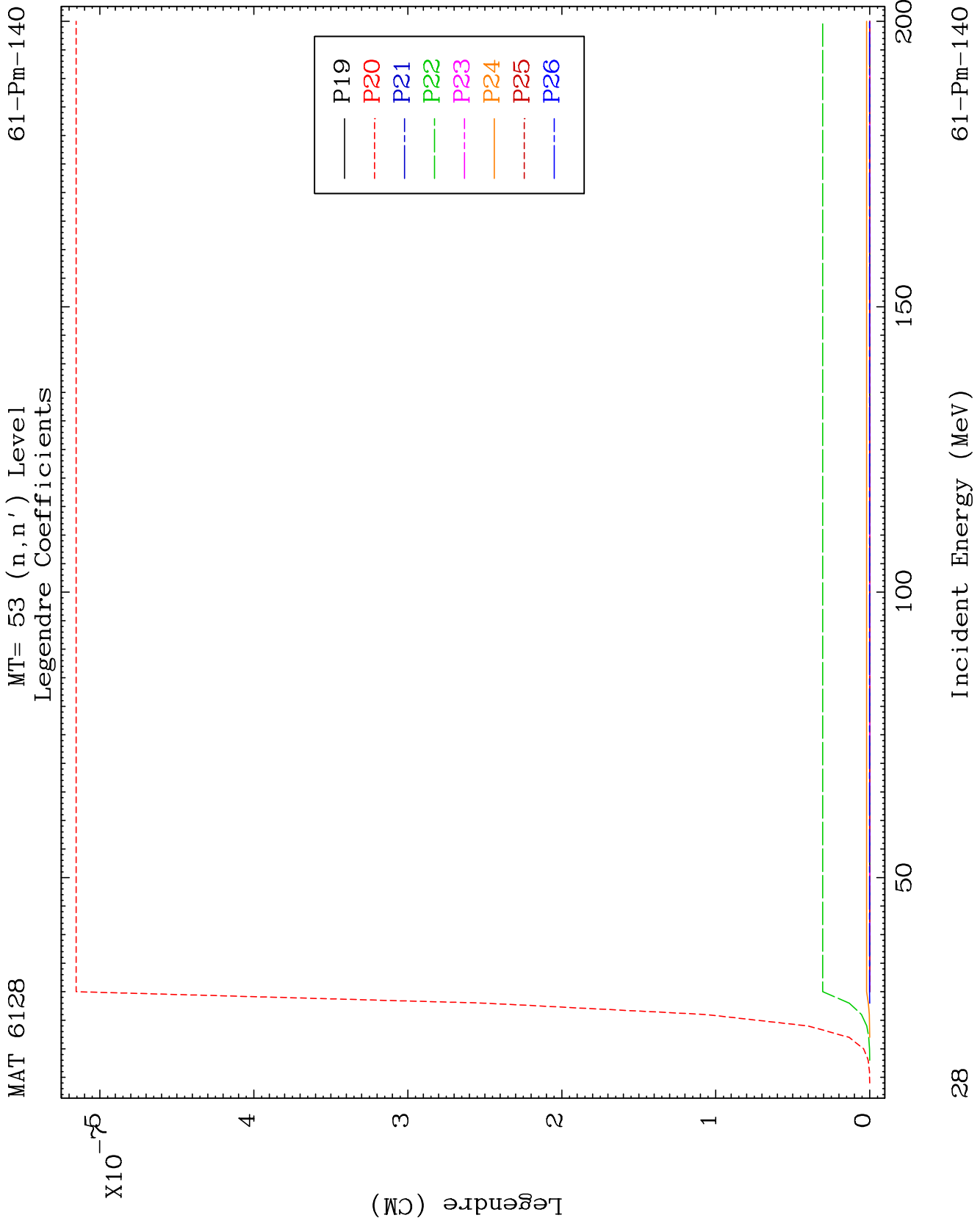


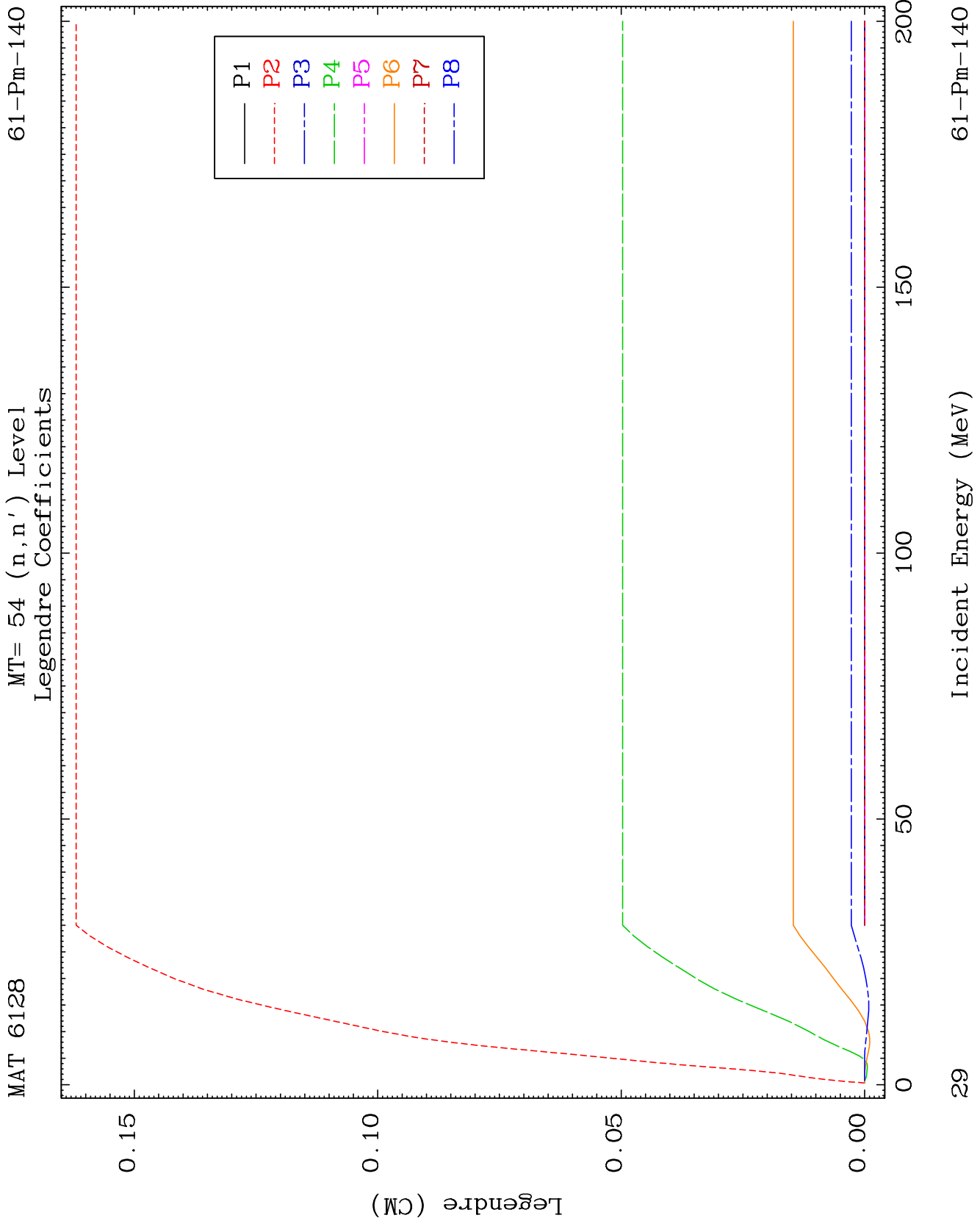








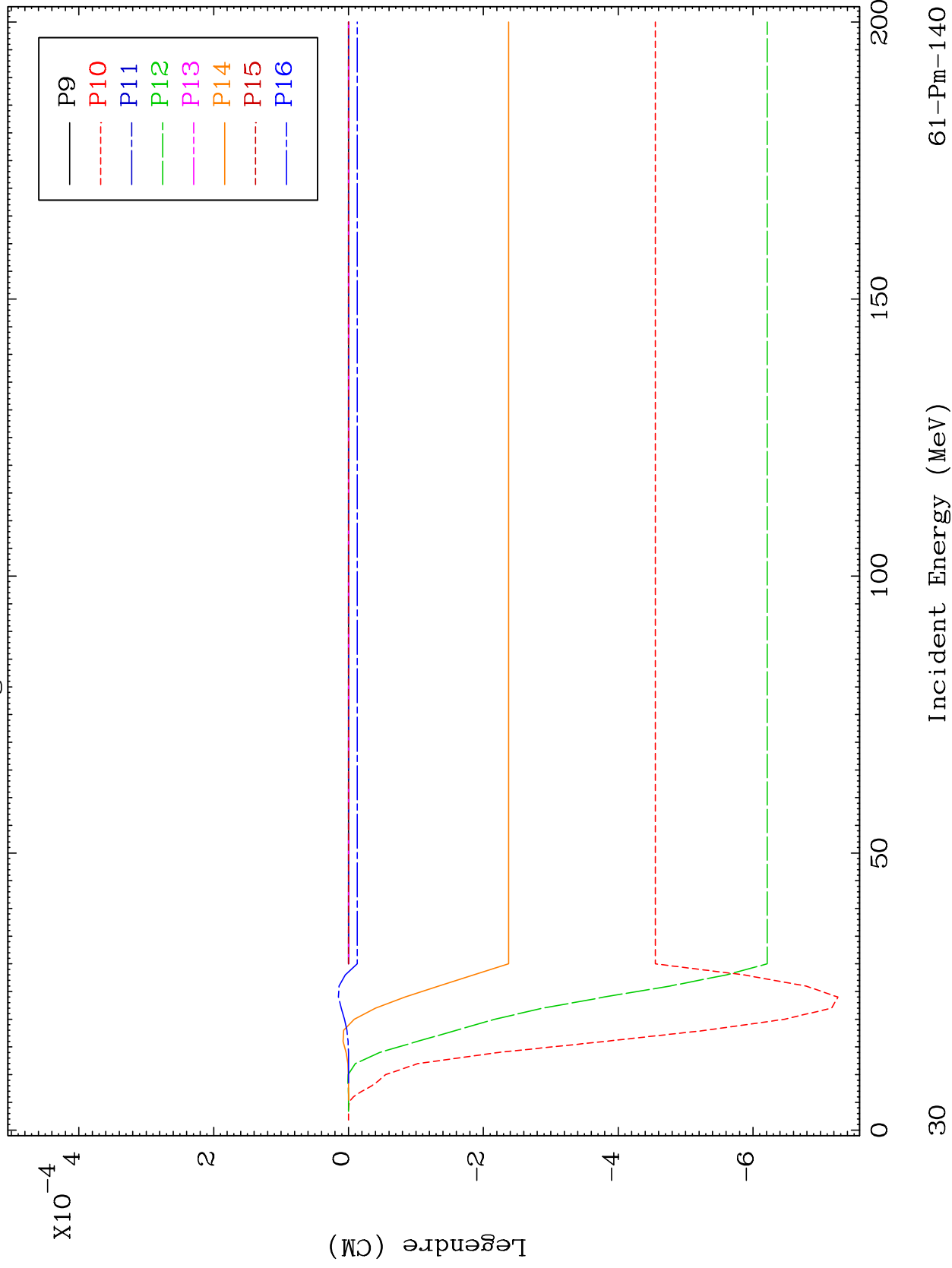


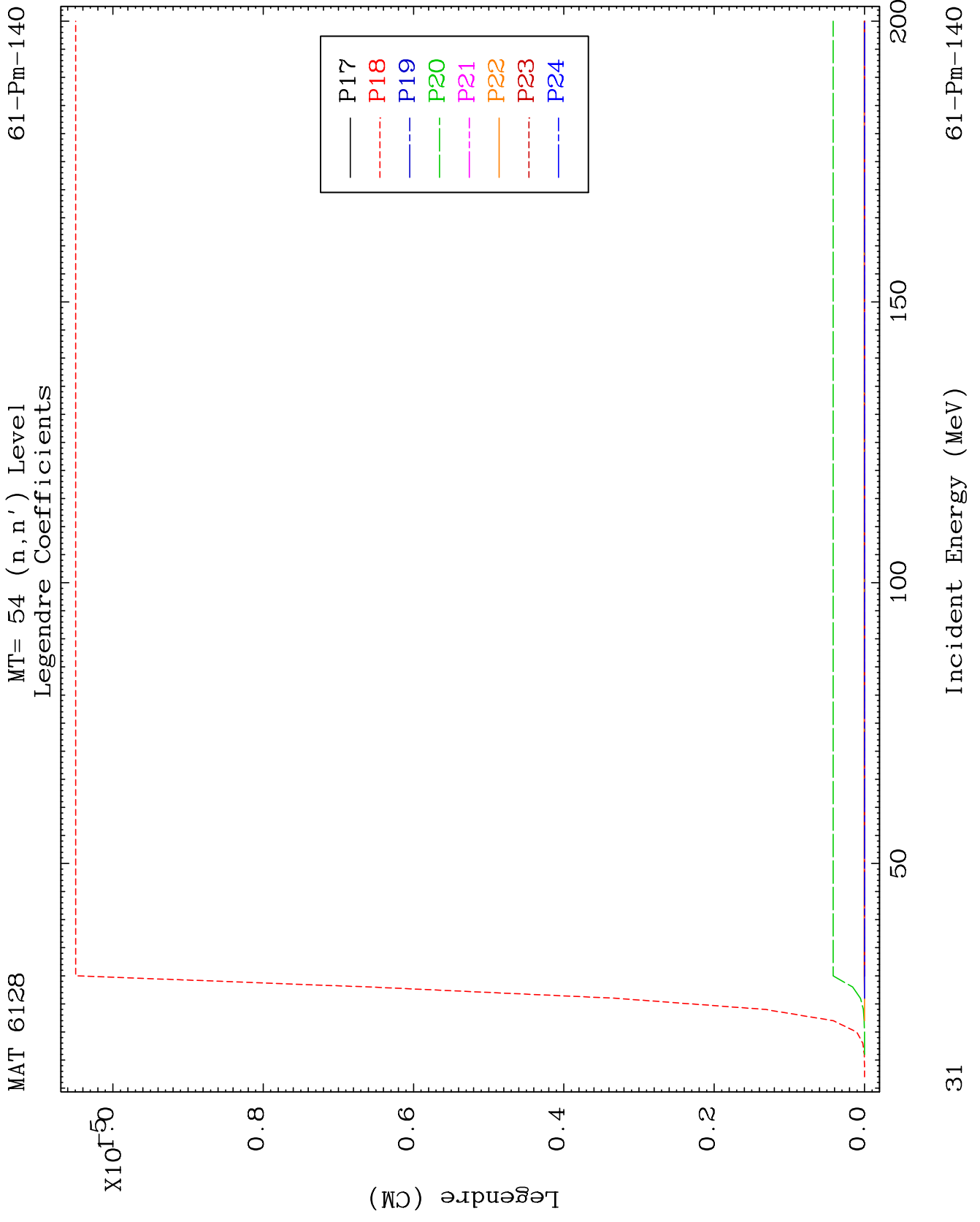


MAT 6128

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

61-Pm-140

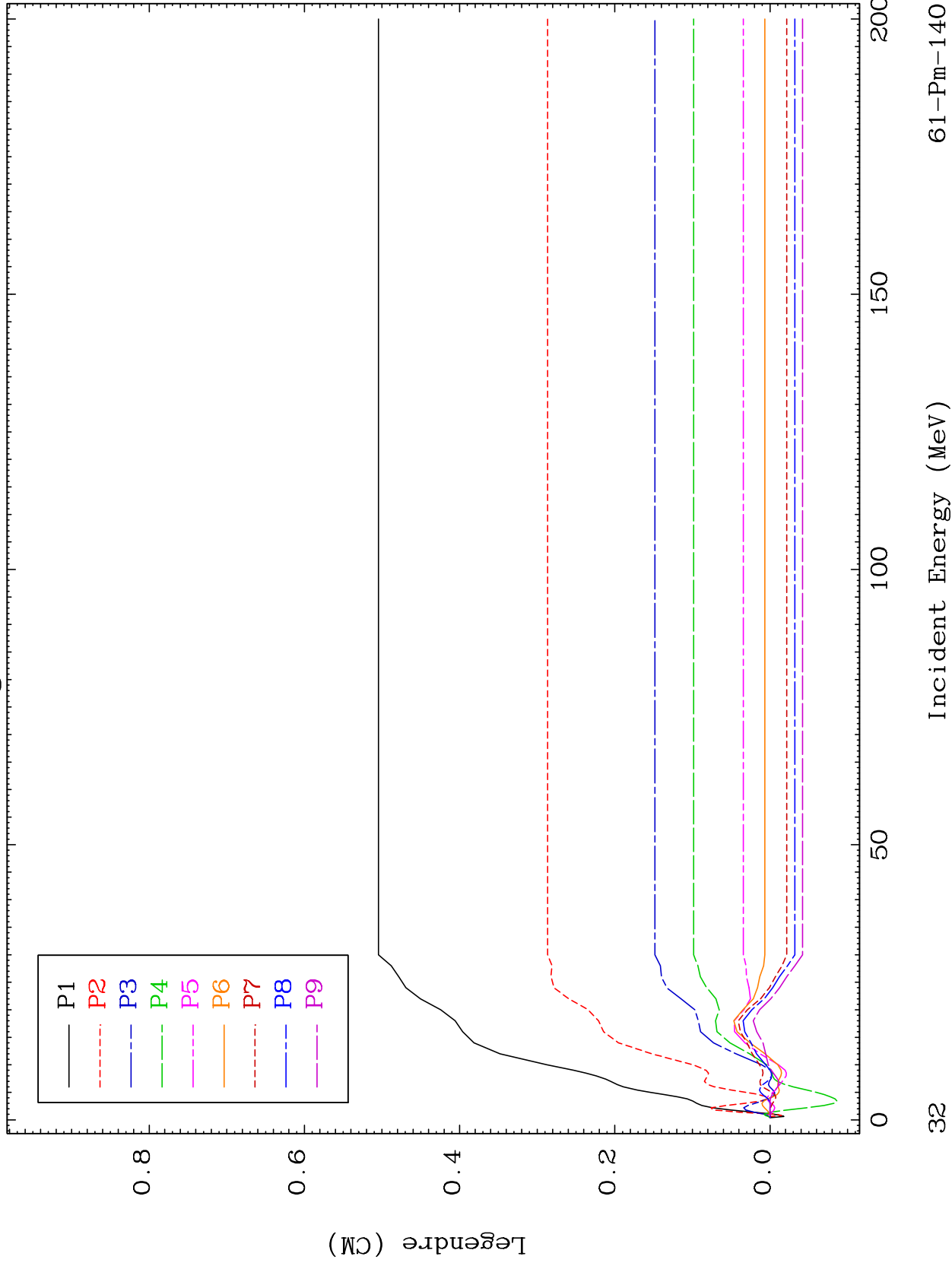




MAT 6128

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

61-Pm-140



32

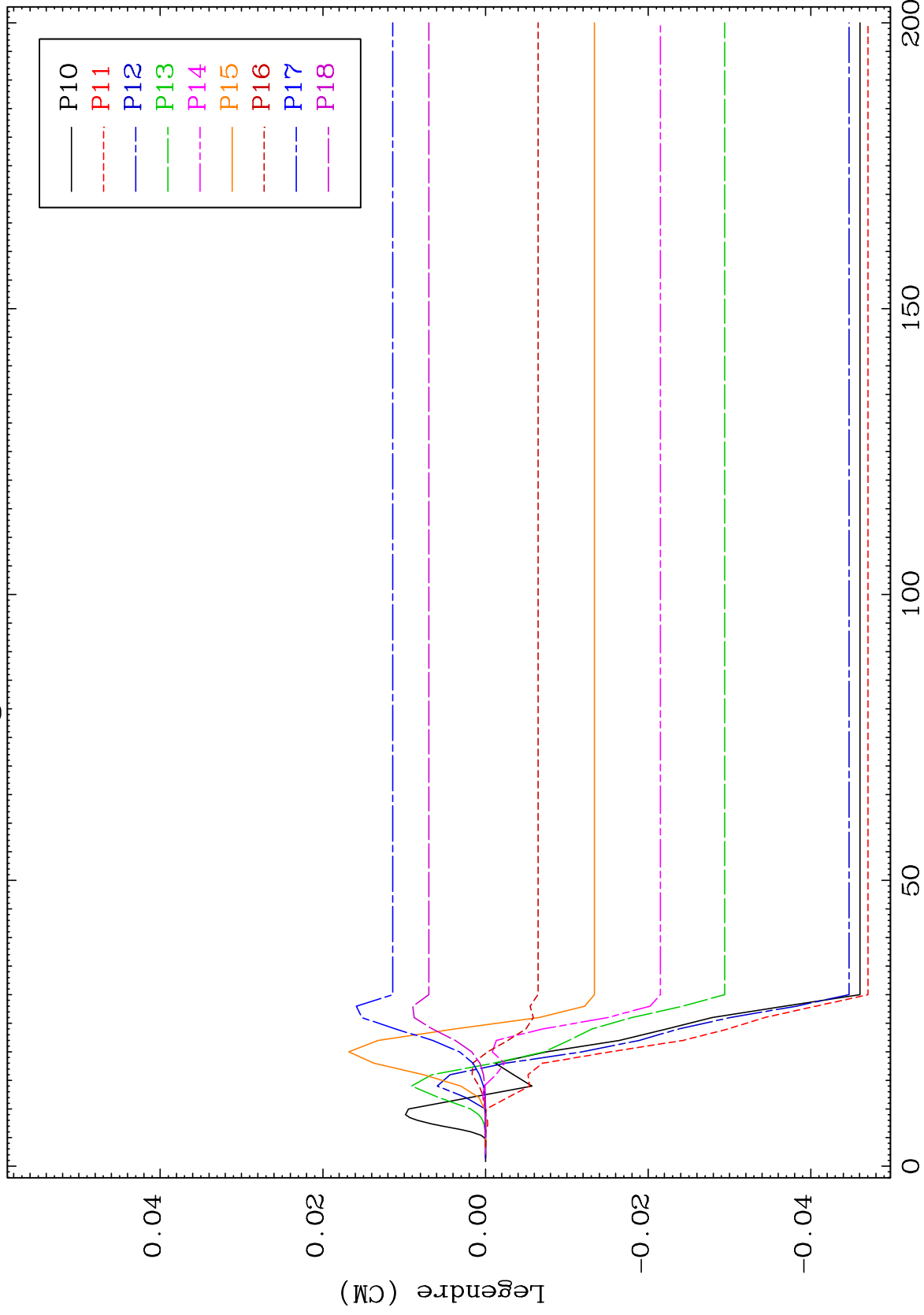
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



33

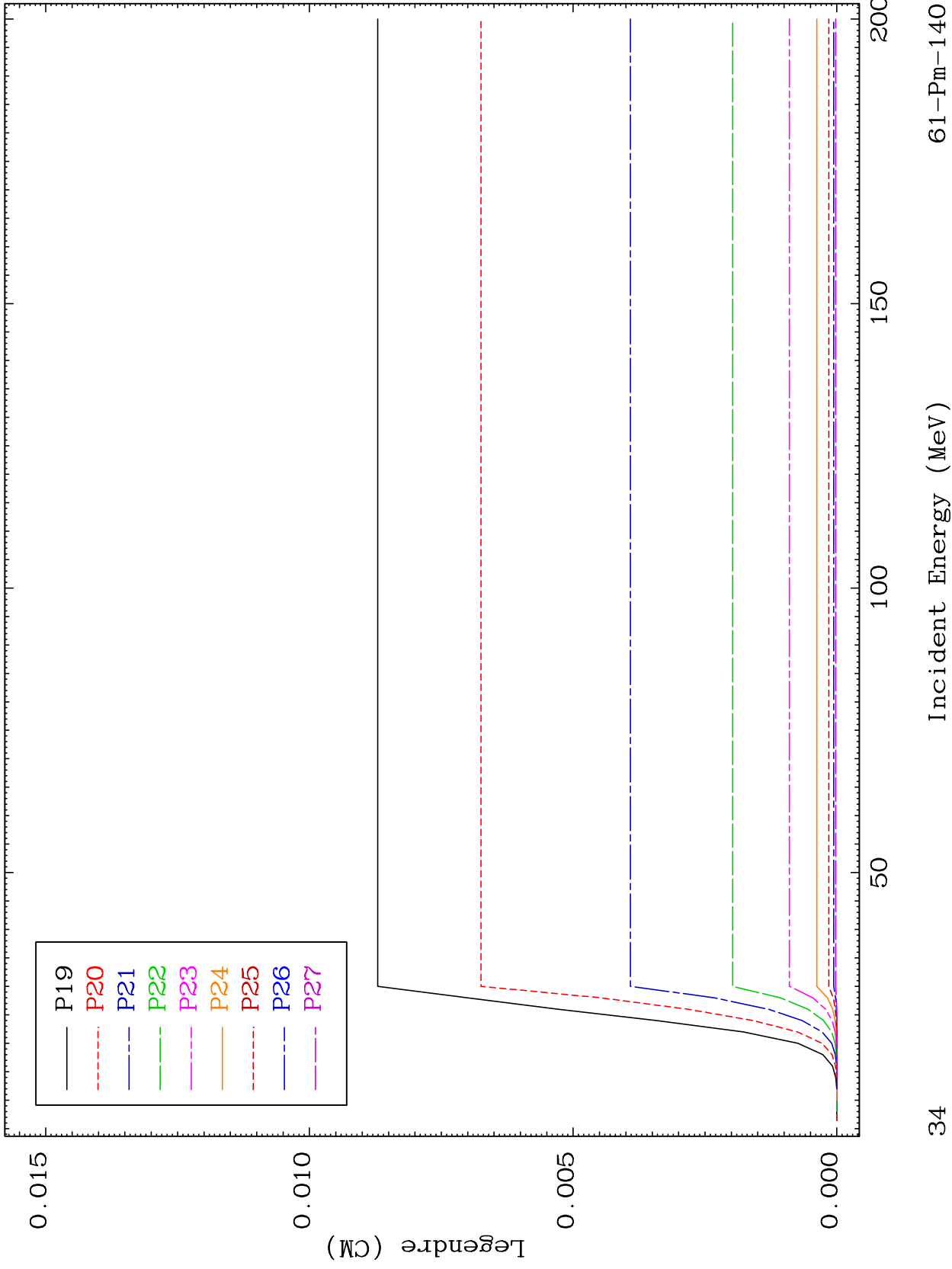
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



34

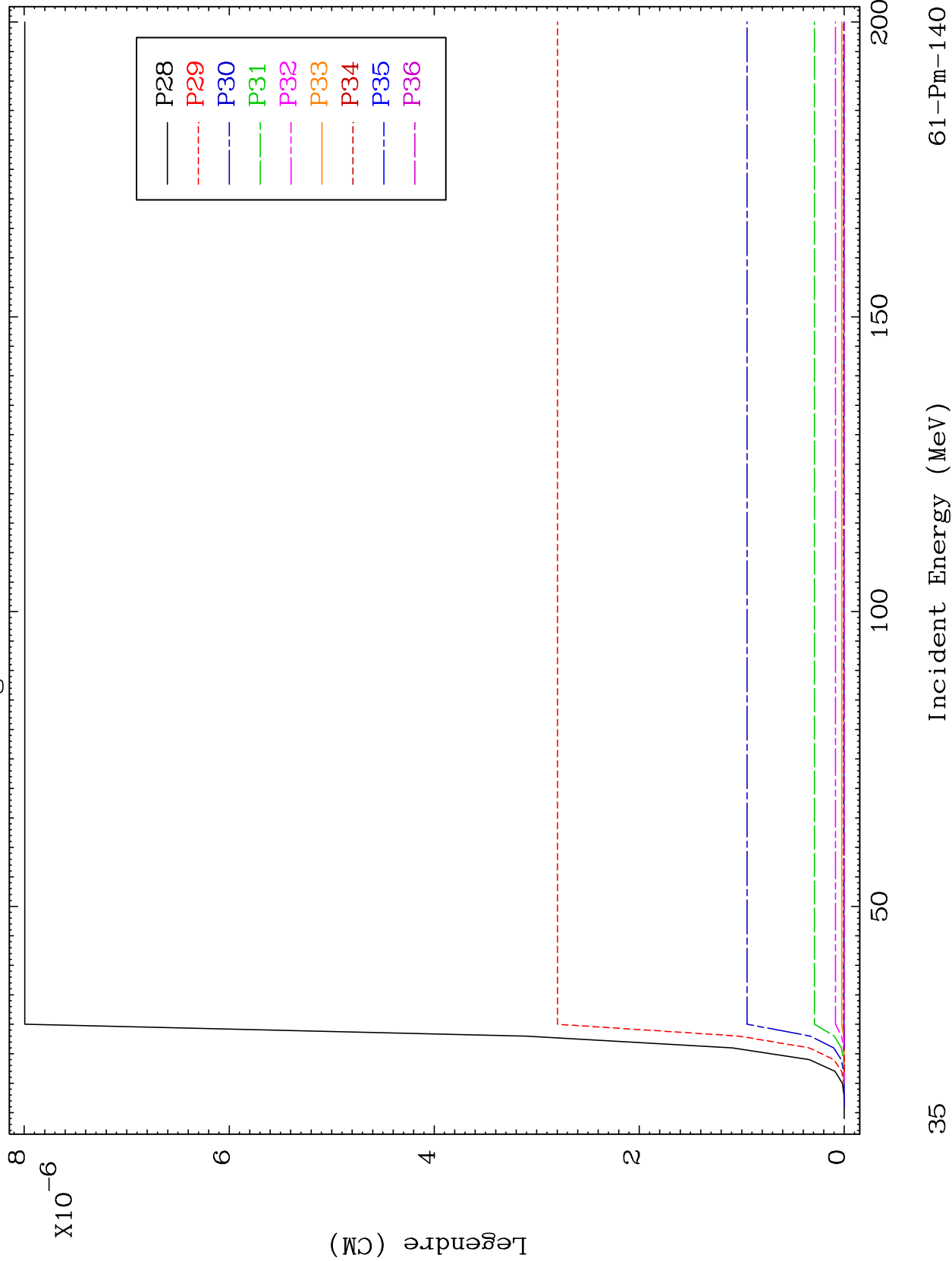
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



35

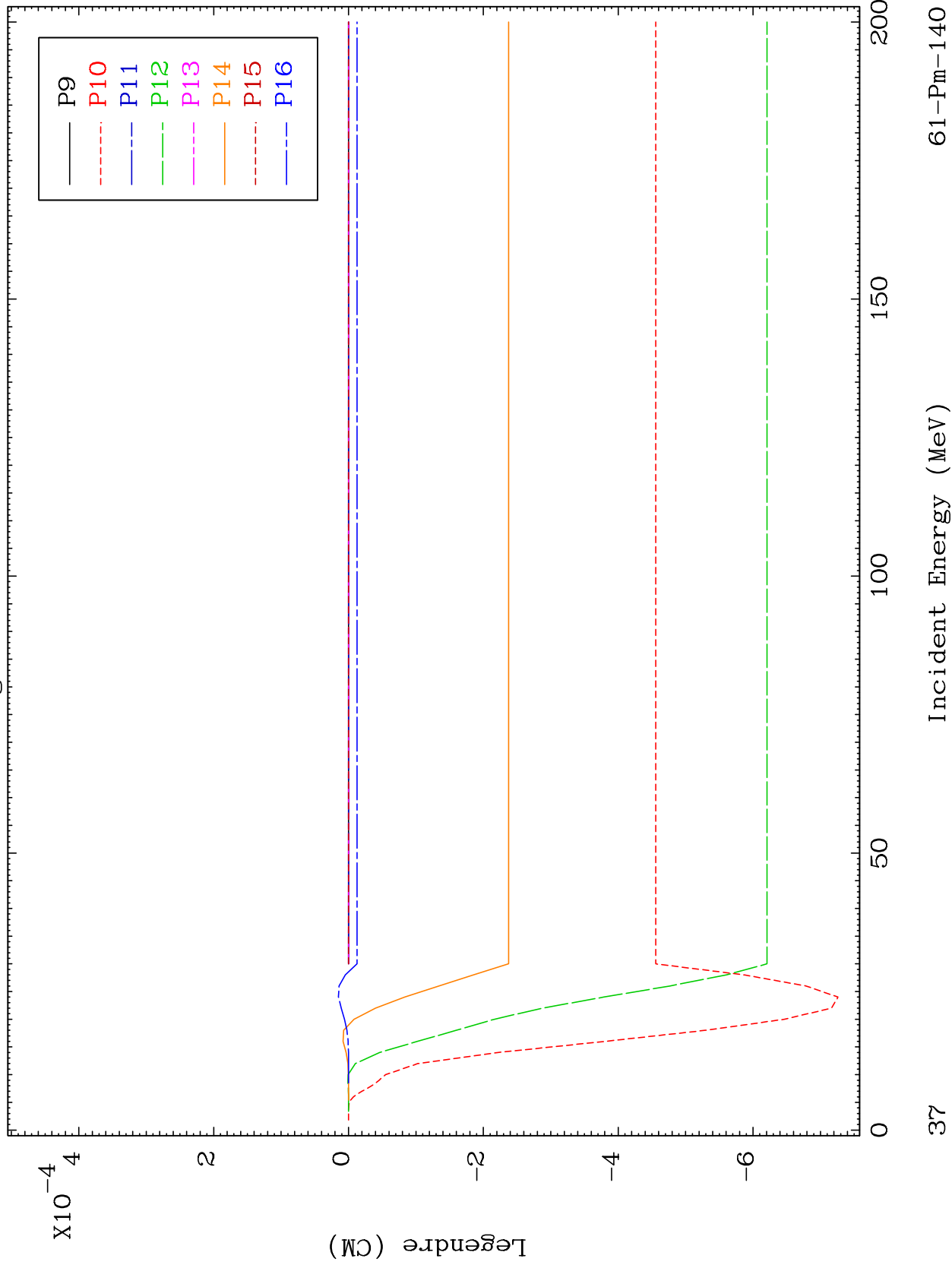
Incident Energy (MeV)

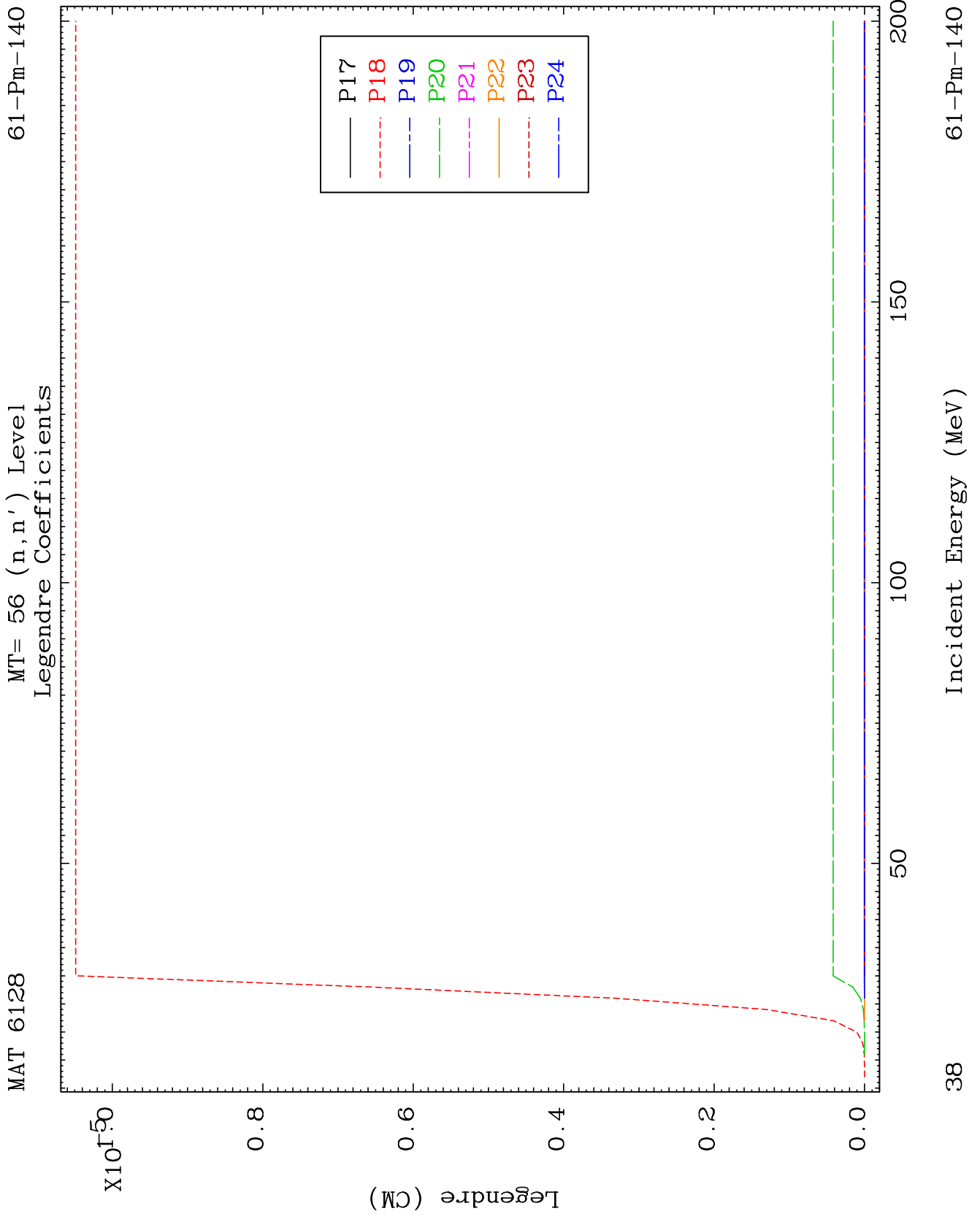
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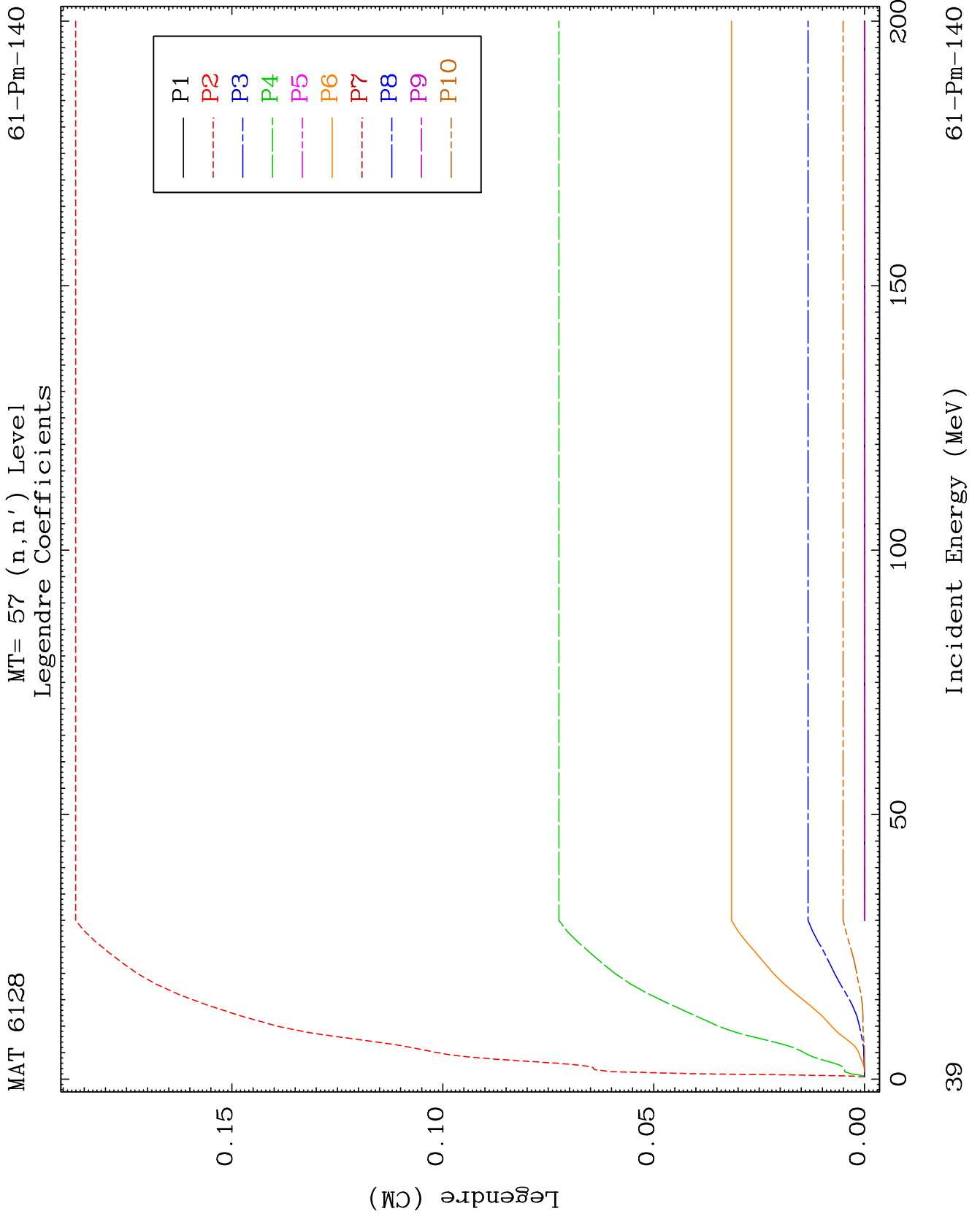
MAT 6128

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

61-Pm-140





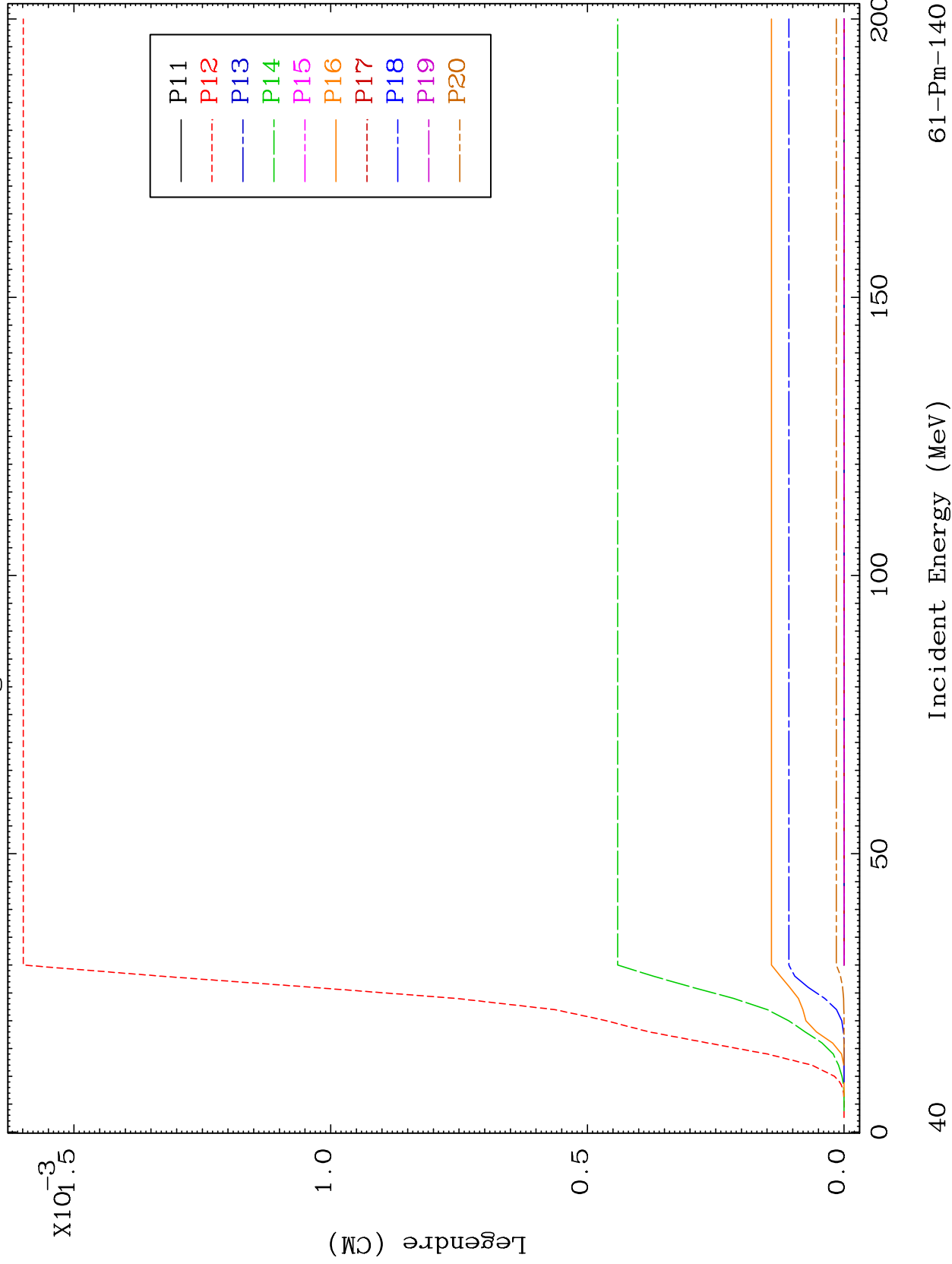


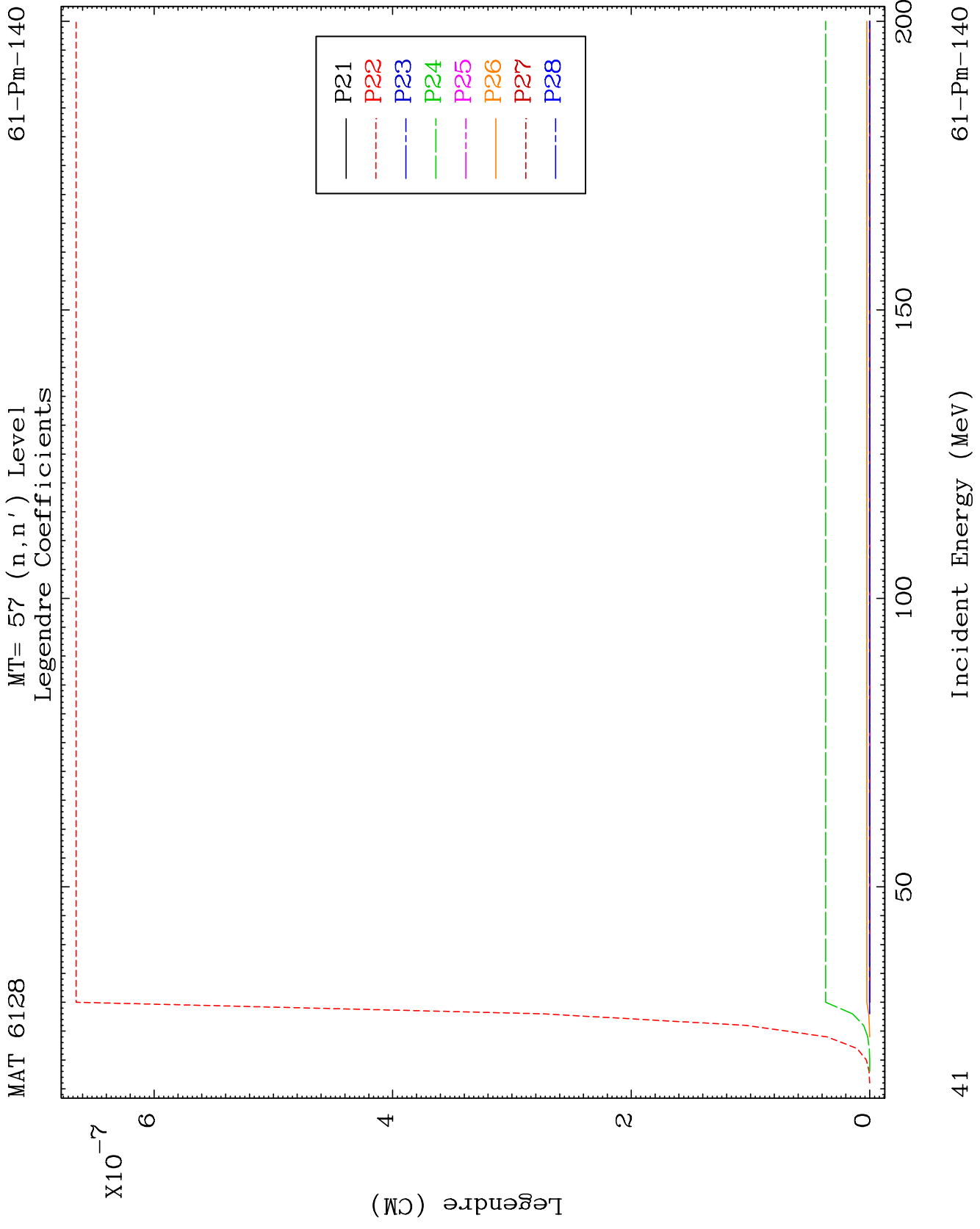
MAT 6128

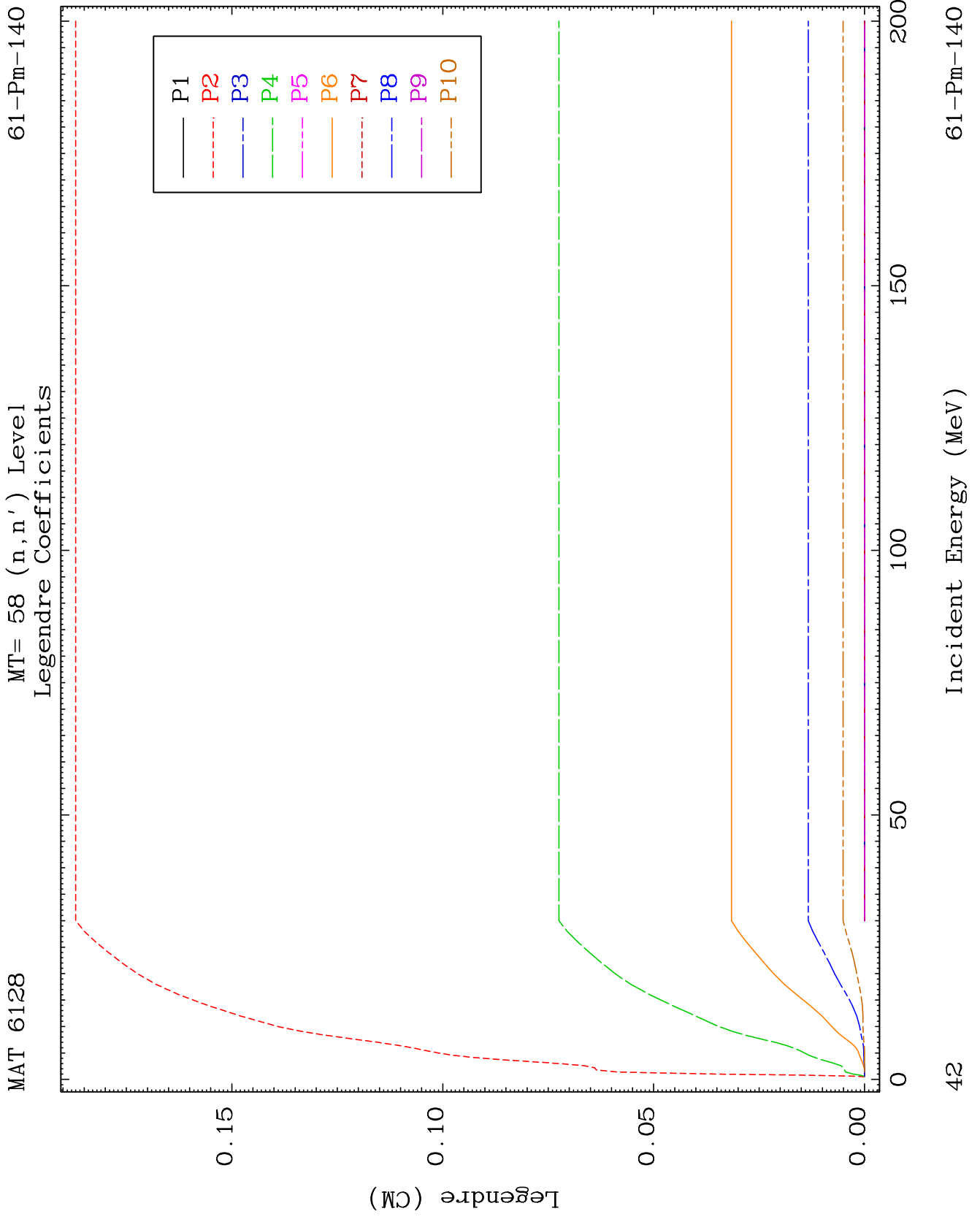
MT= 57 (n,n') Level

61-Pm-140

Legendre Coefficients



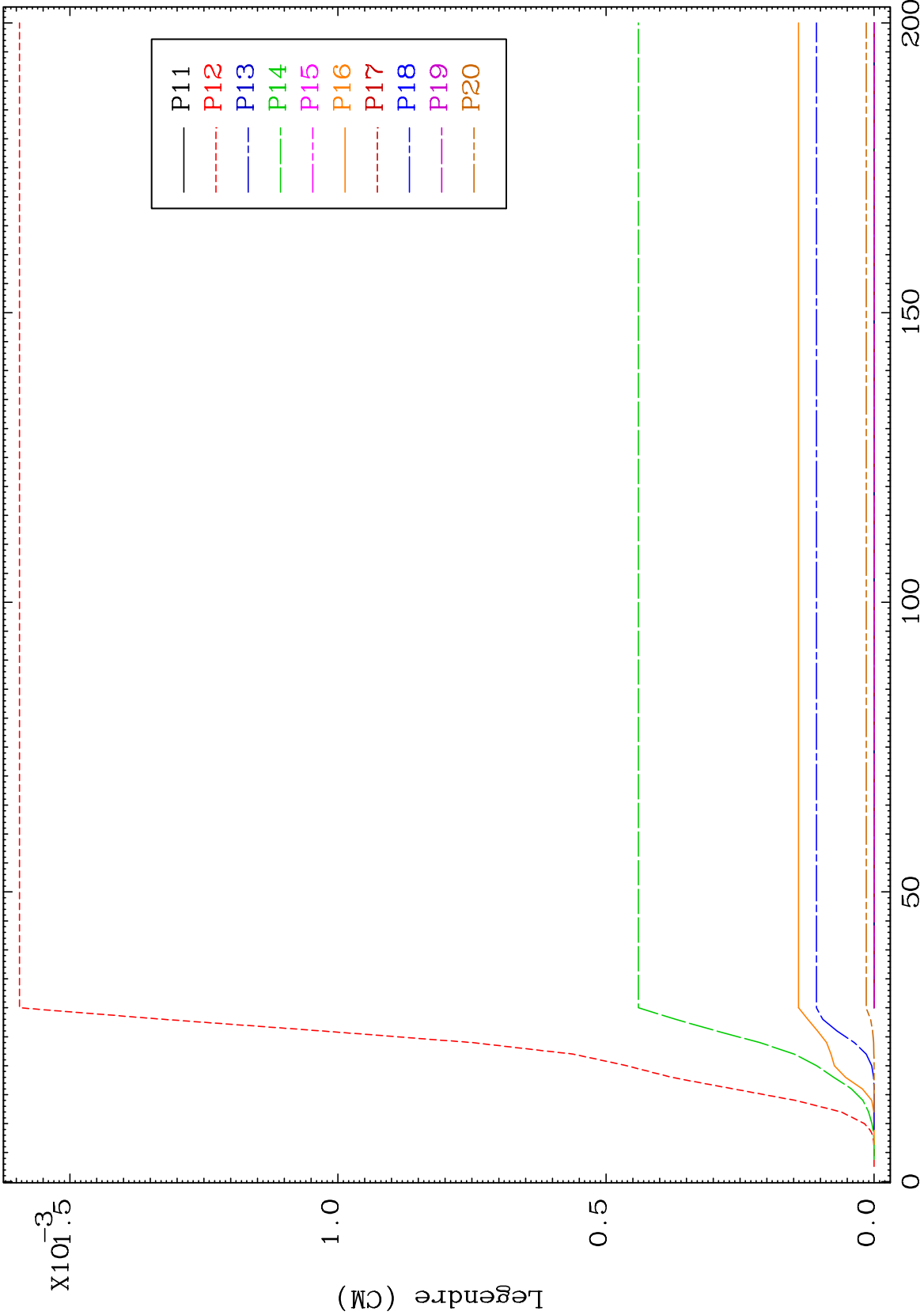




MAT 6128

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

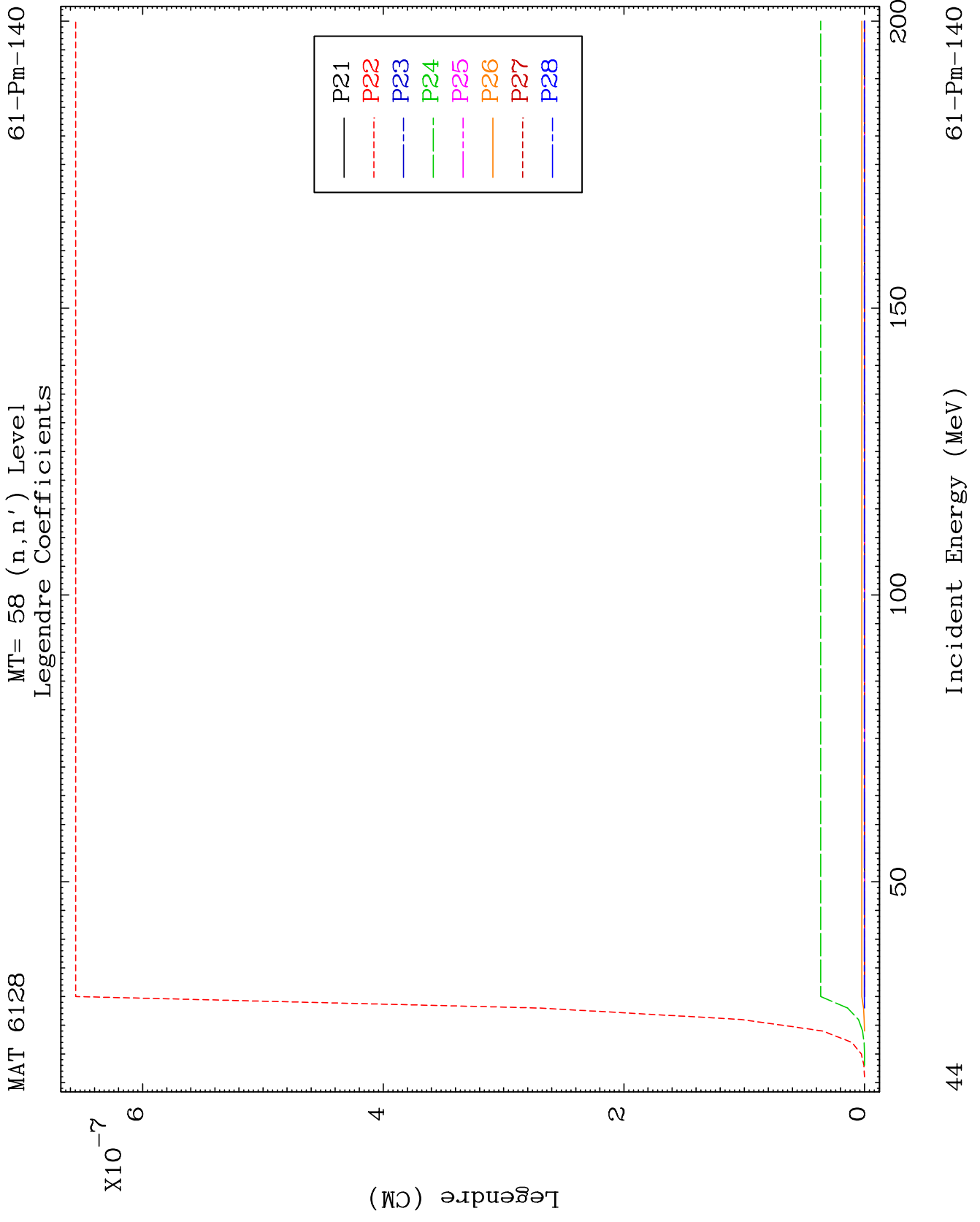
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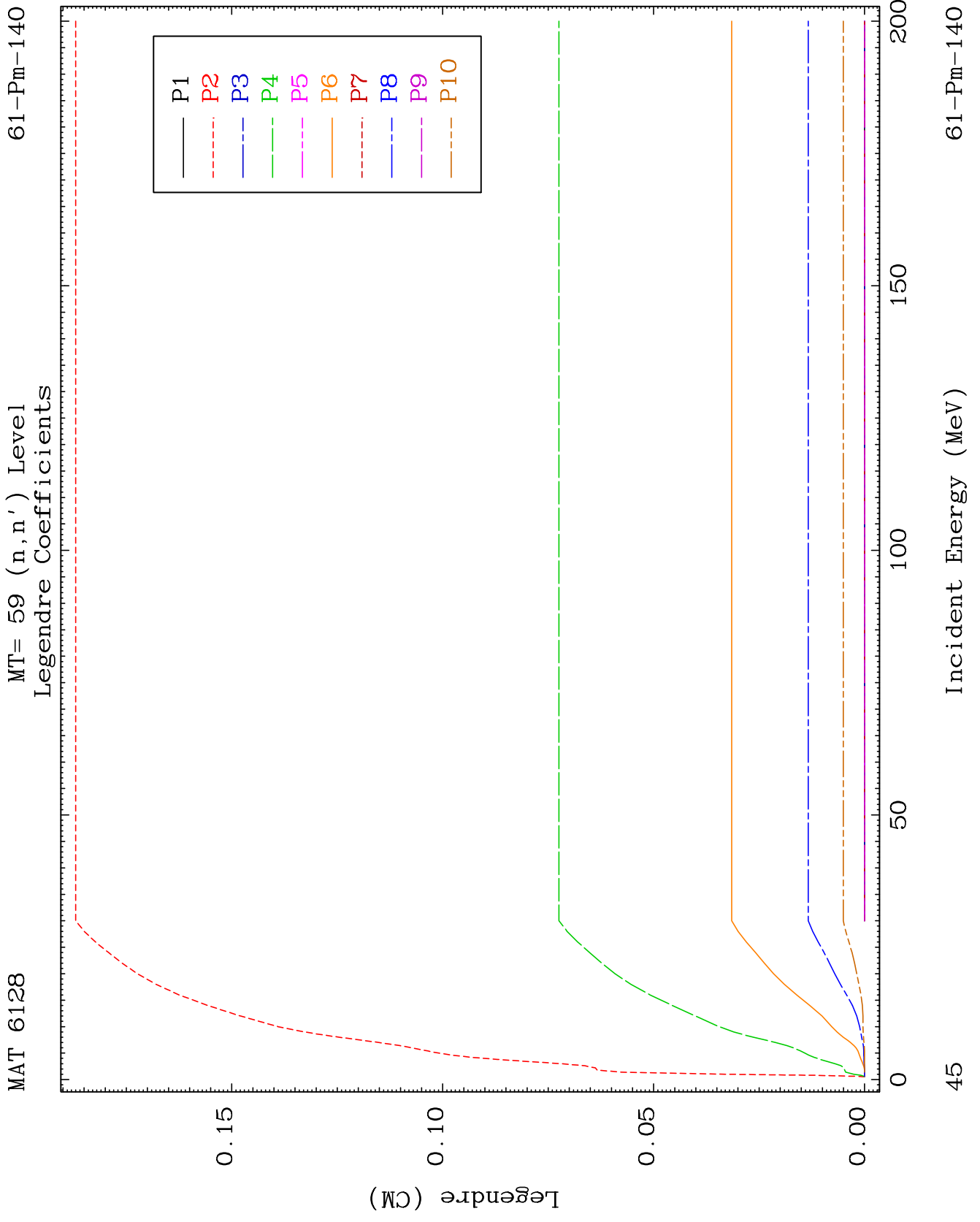


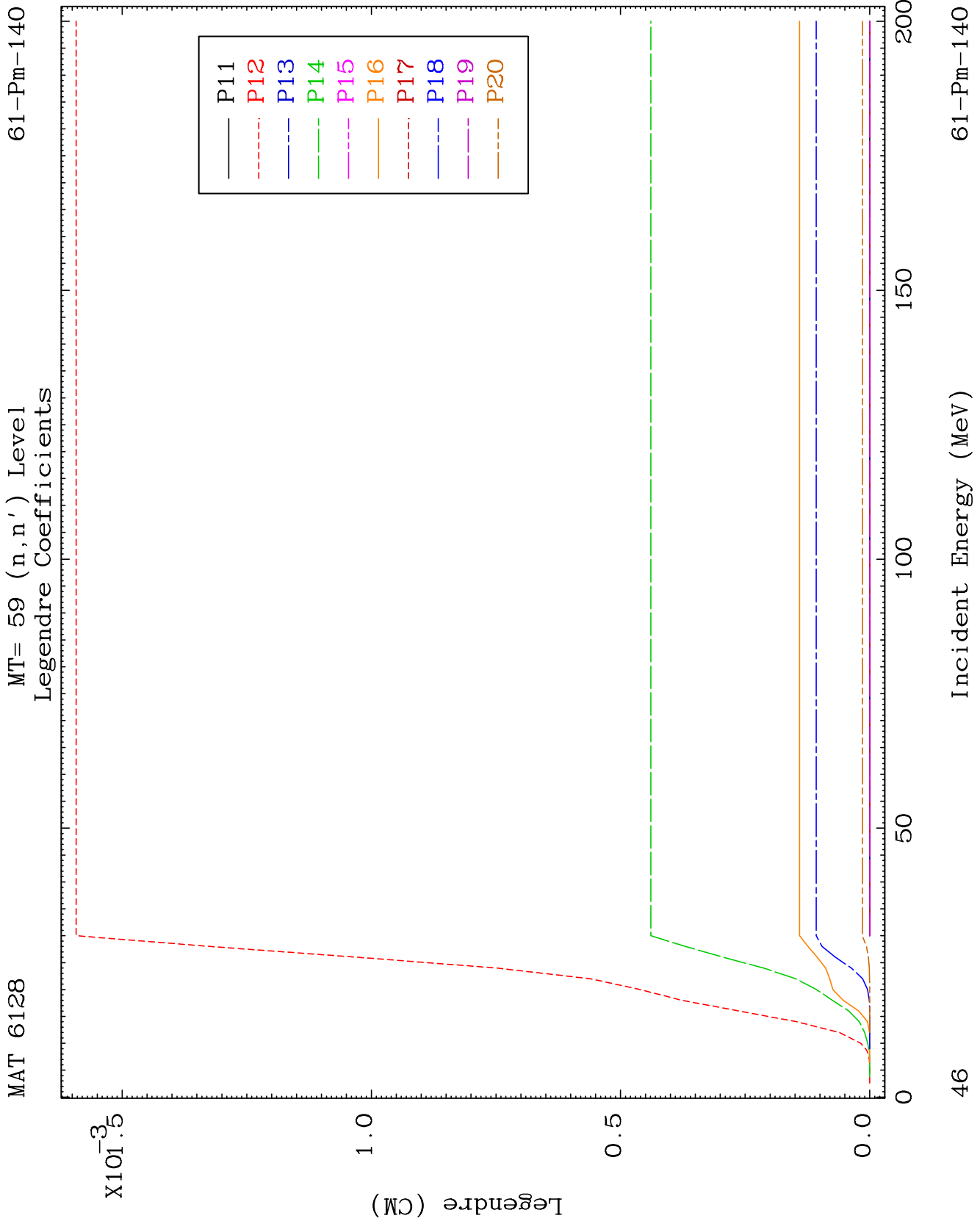
43

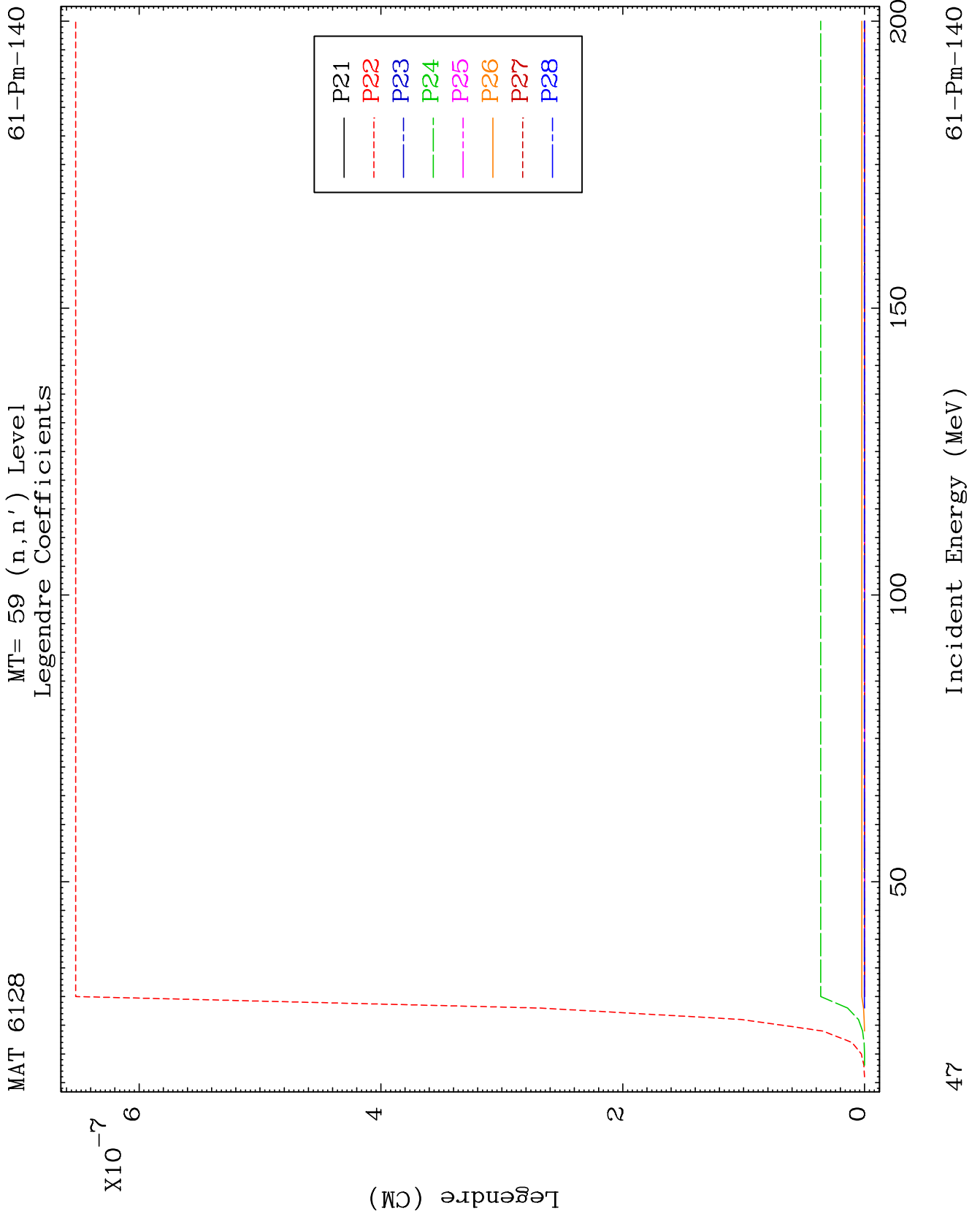
Incident Energy (MeV)

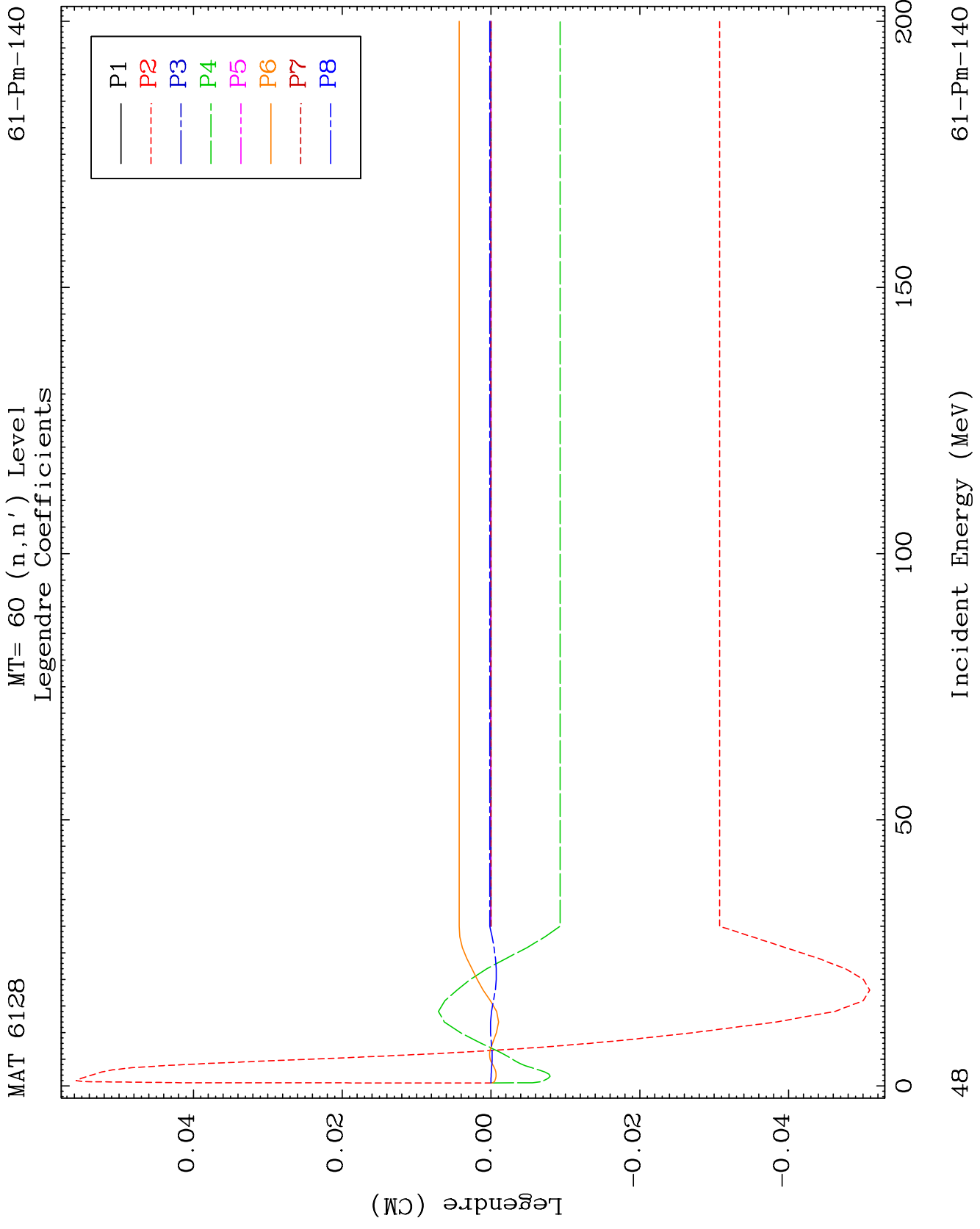
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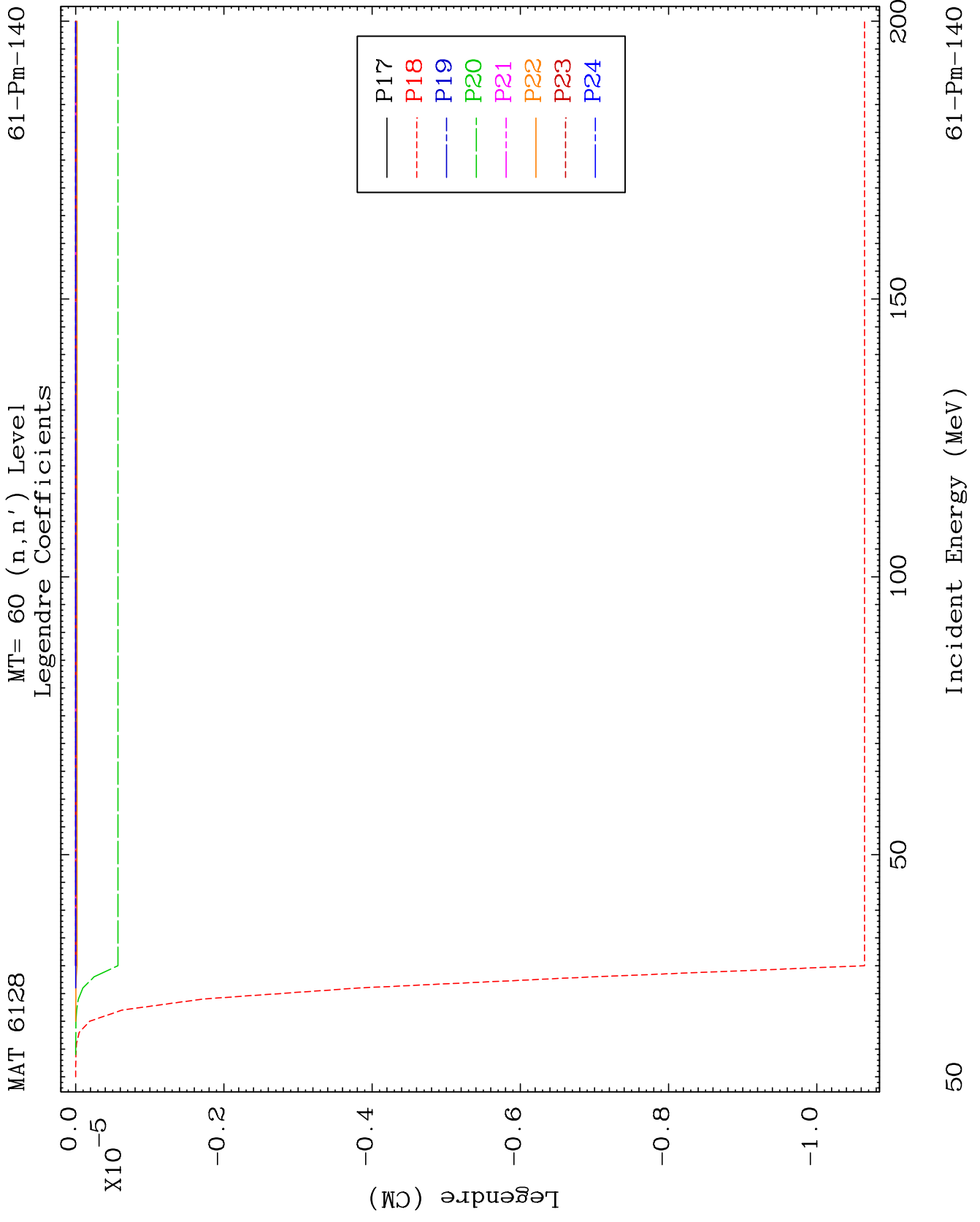








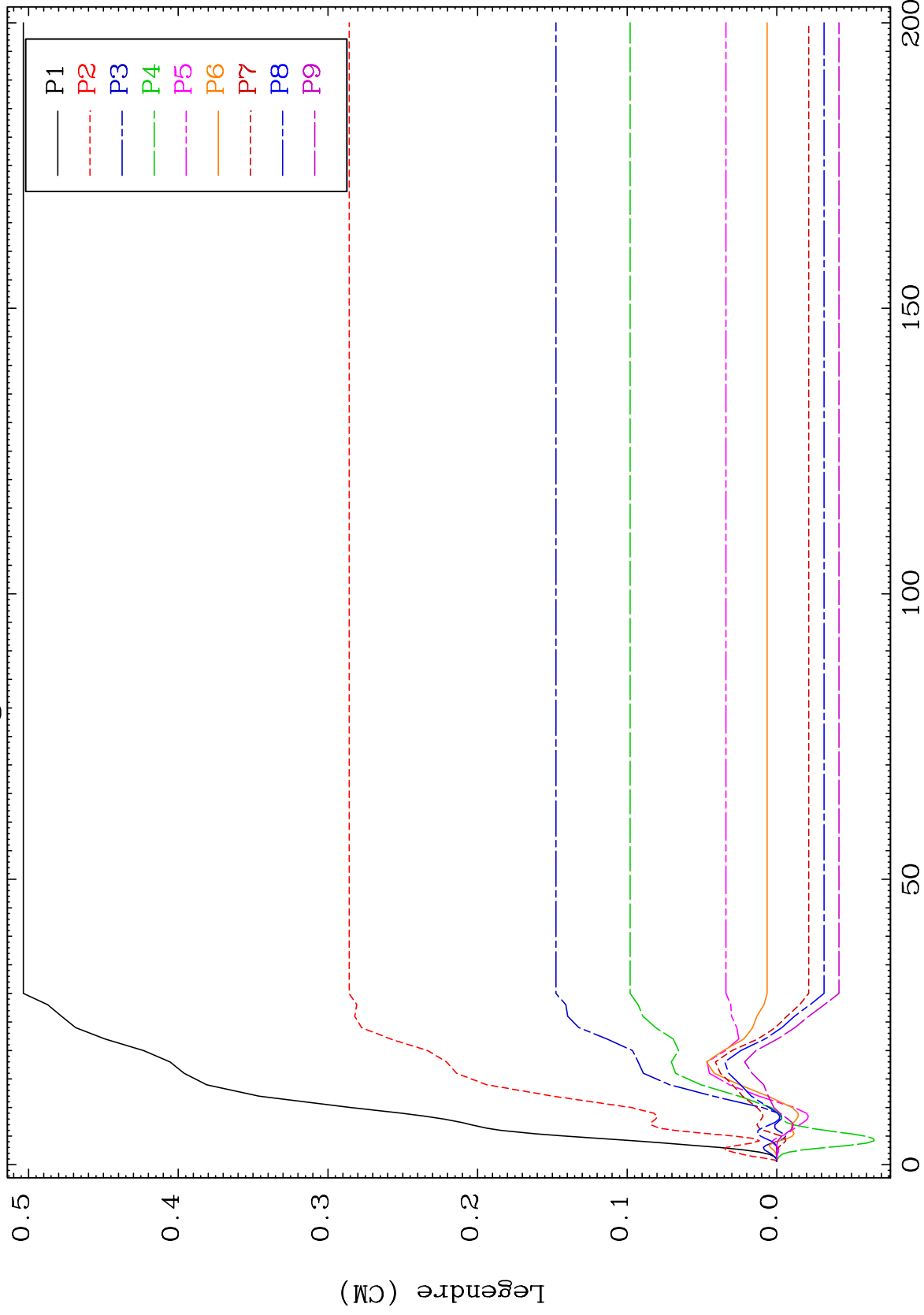




MAT 6128

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

61-Pm-140



51

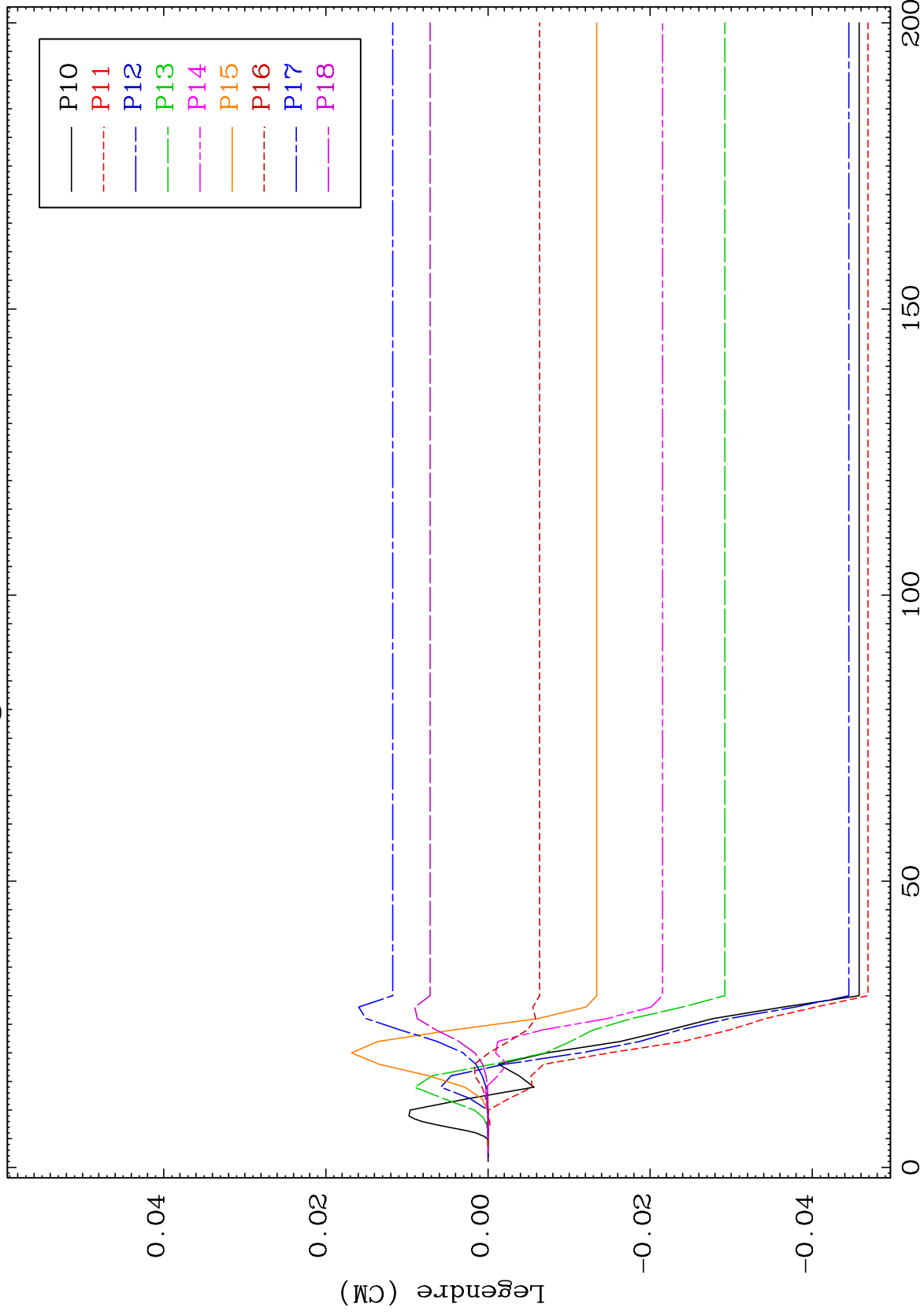
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



52

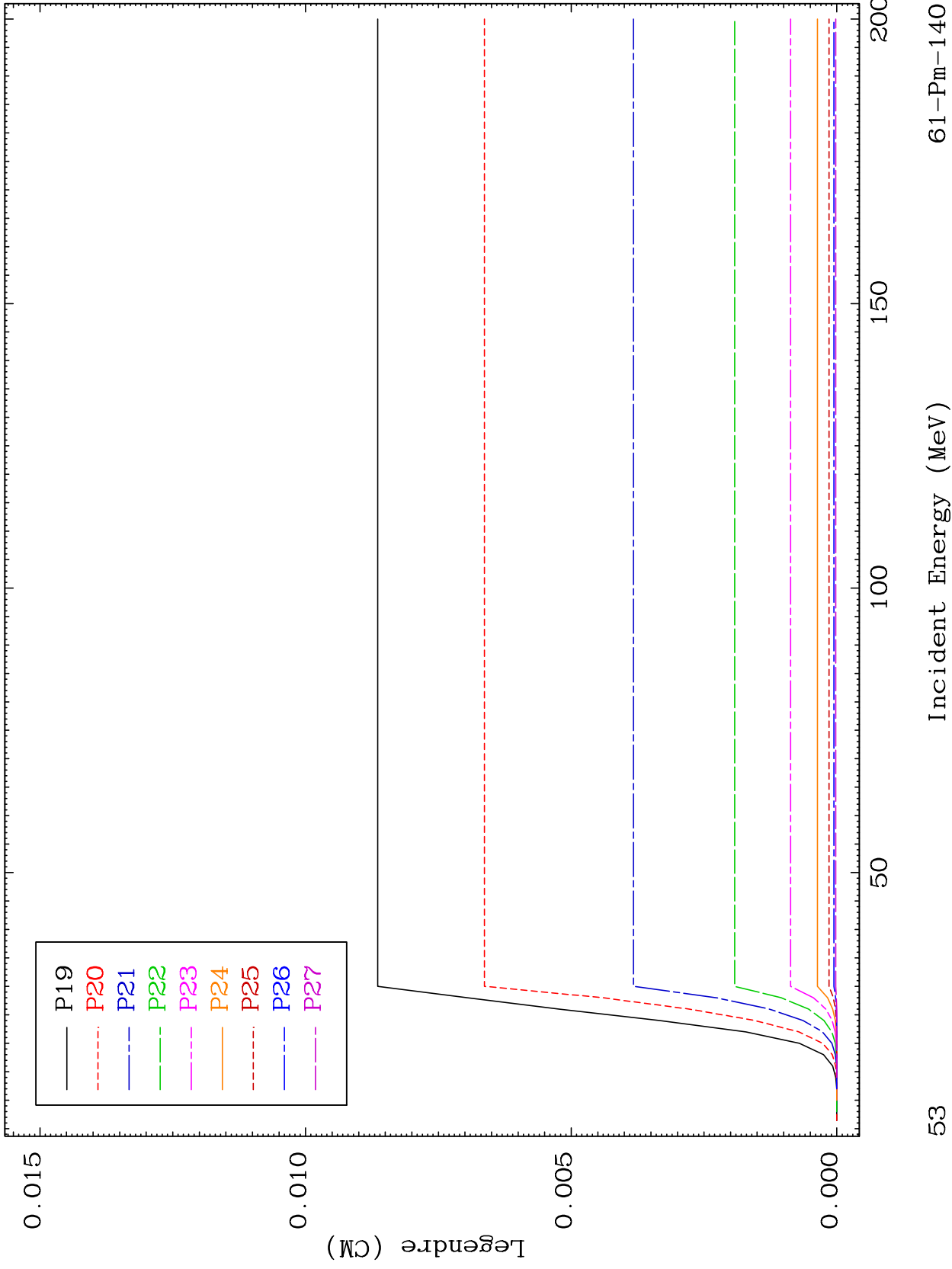
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

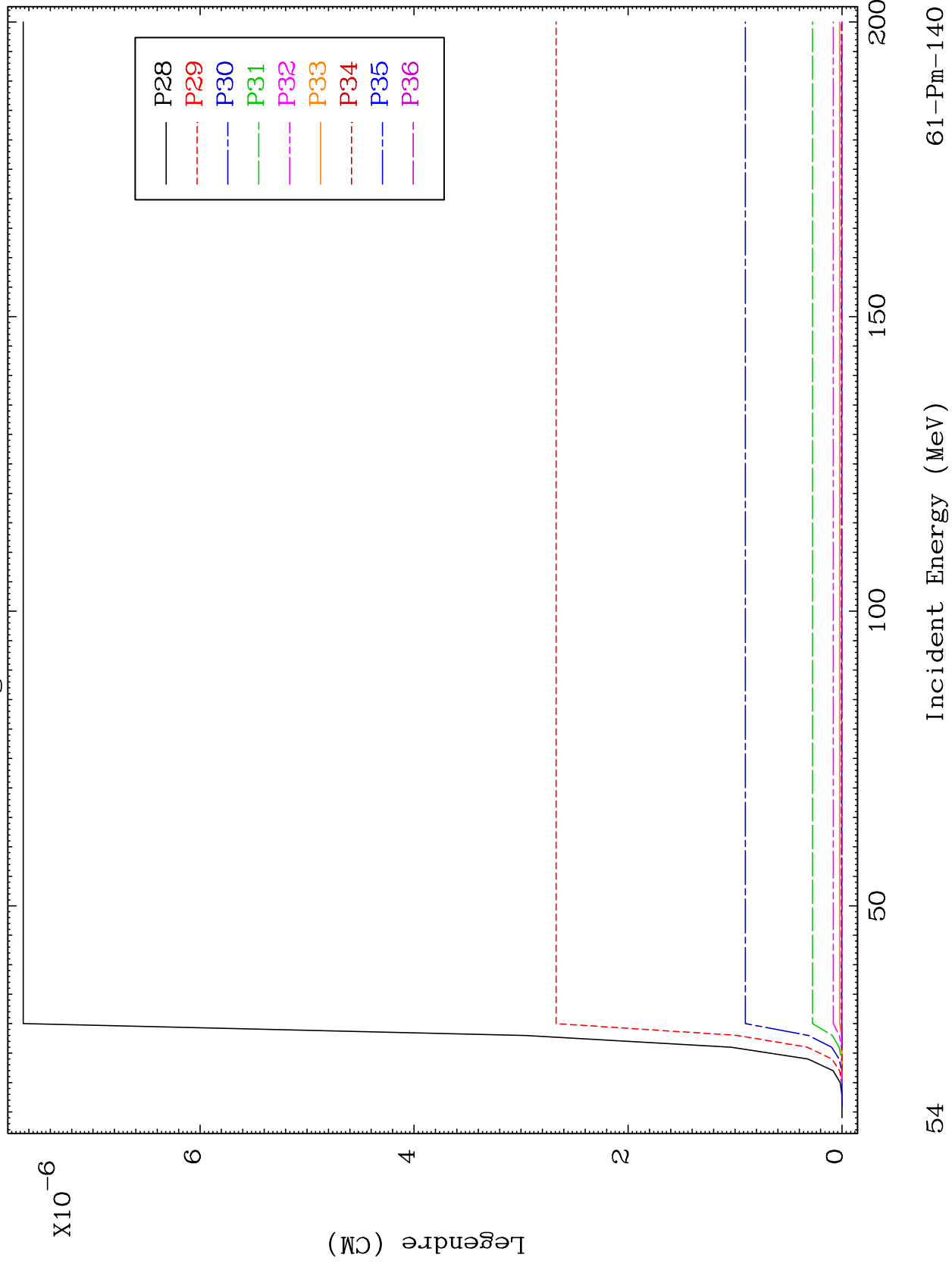
61-Pm-140



MAT 6128

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

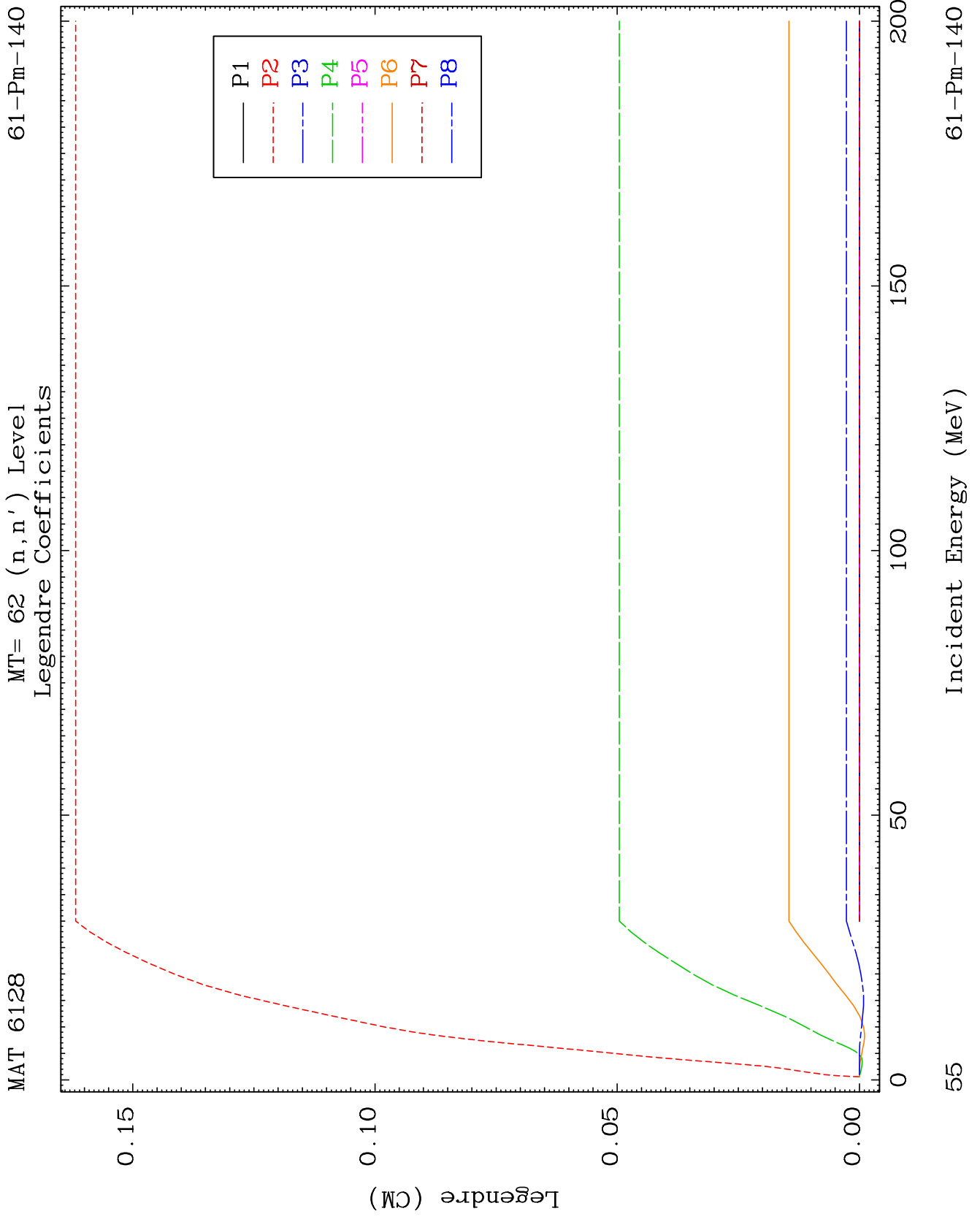
61-Pm-140



54

Incident Energy (MeV)

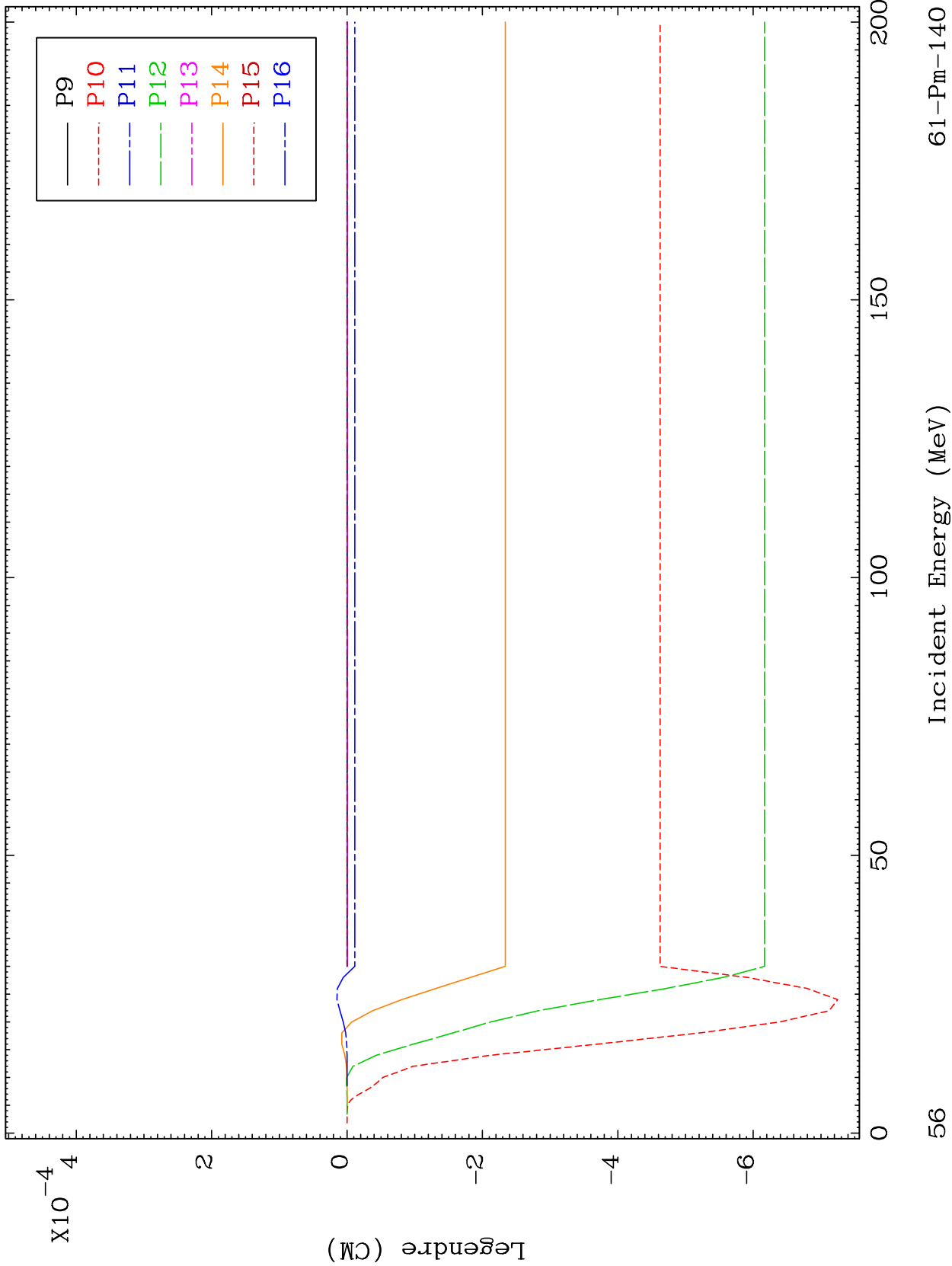
61-Pm-140



MAT 6128

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

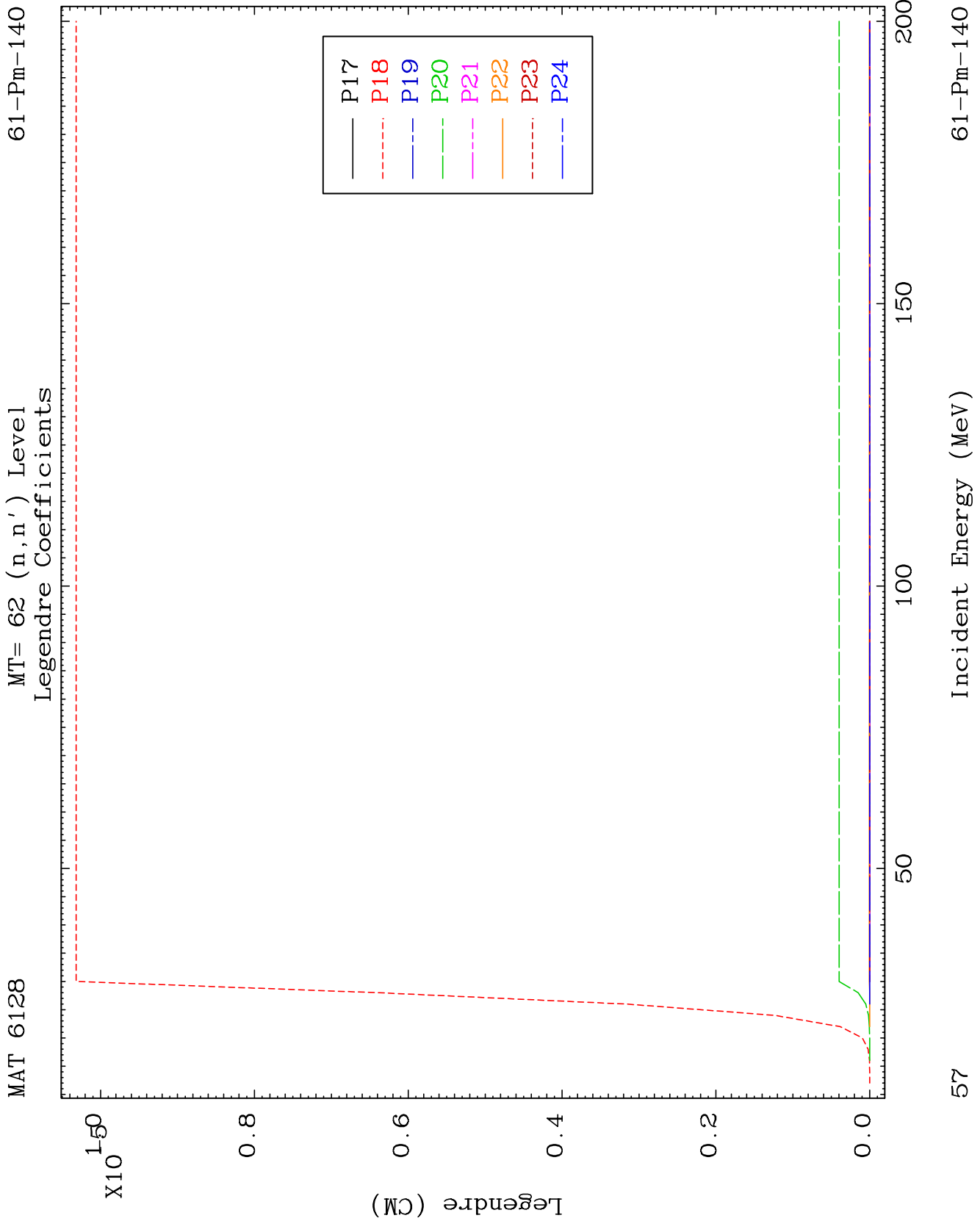
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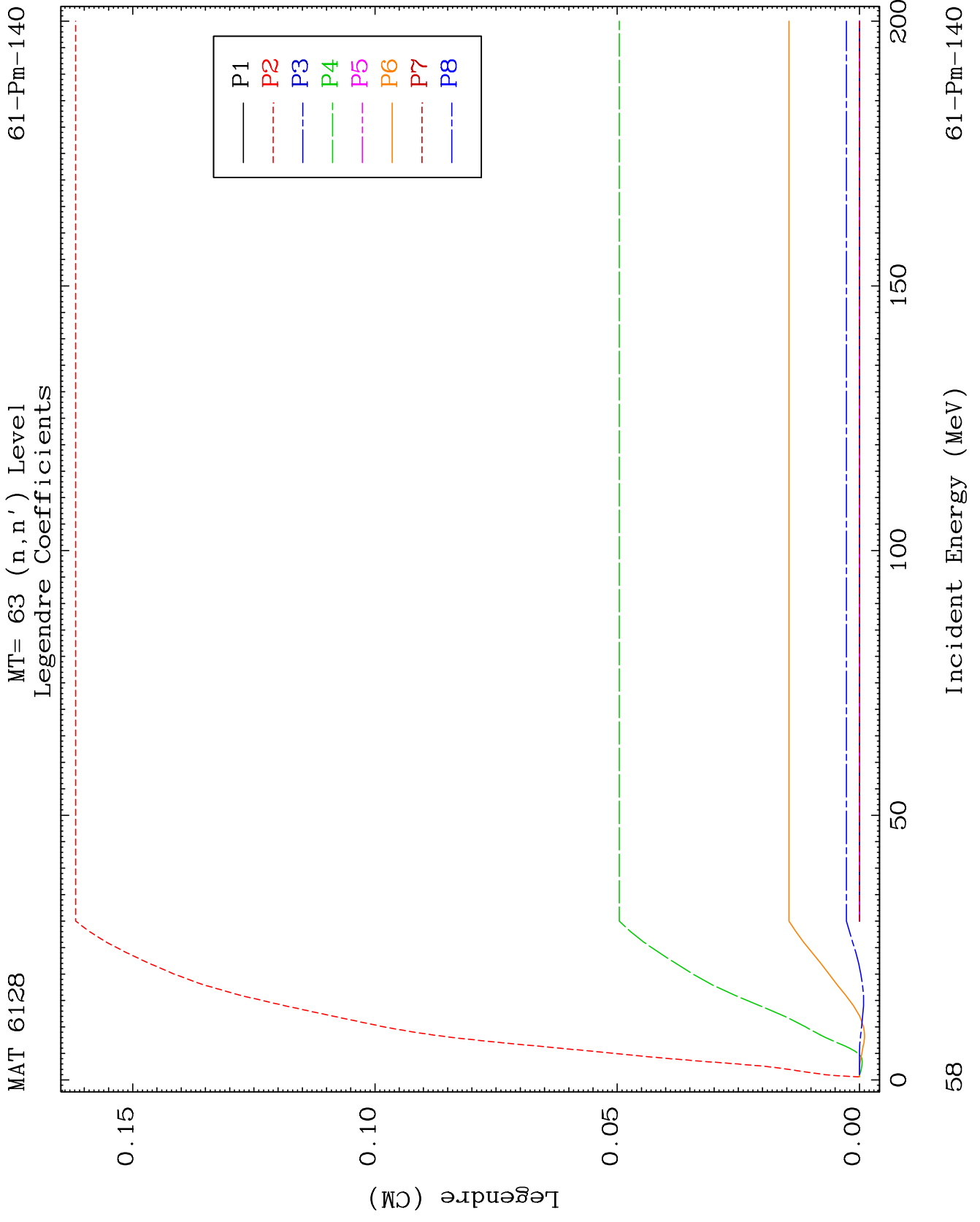


56

Incident Energy (MeV)

61-Pm-140

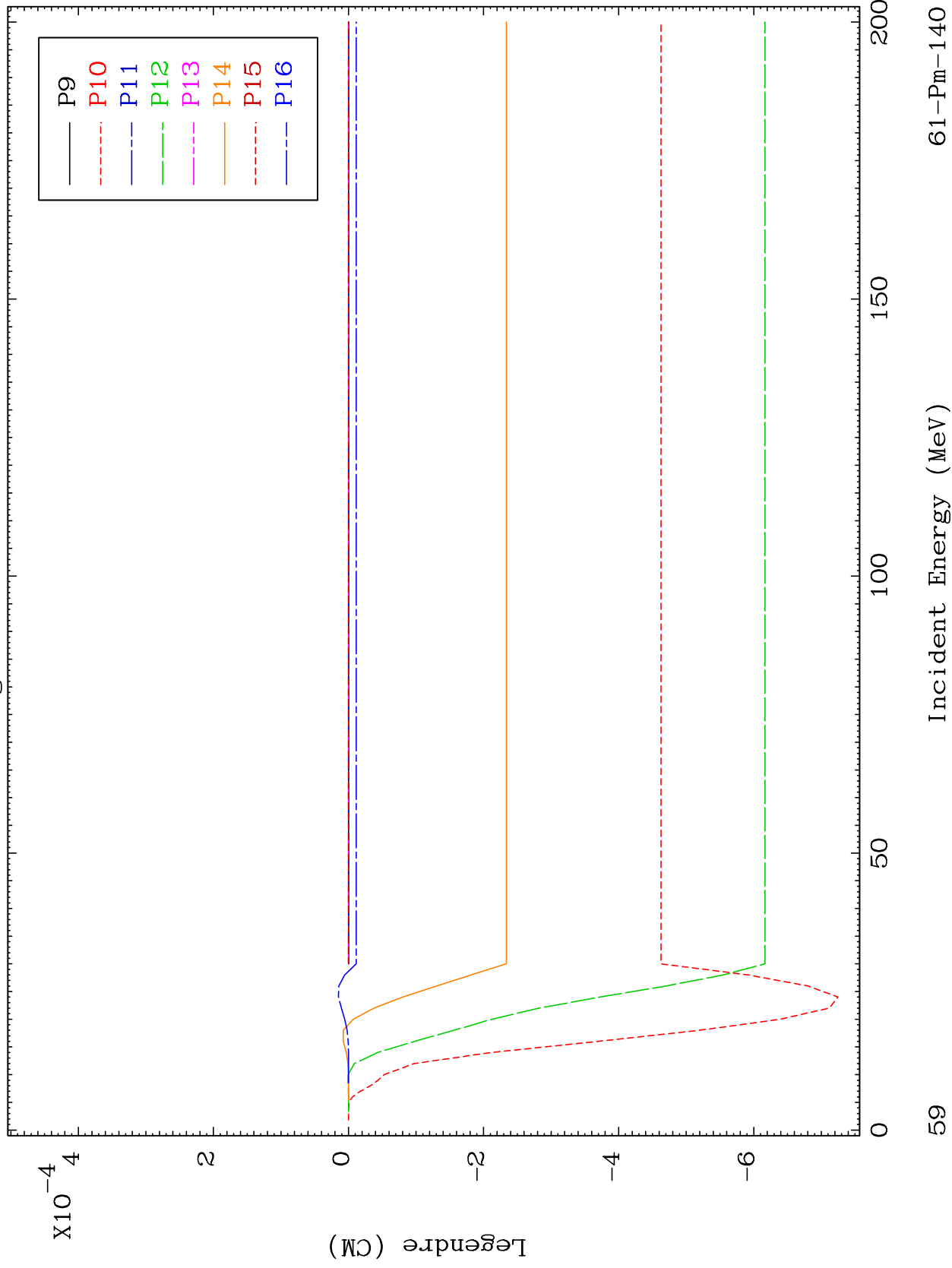




MAT 6128

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

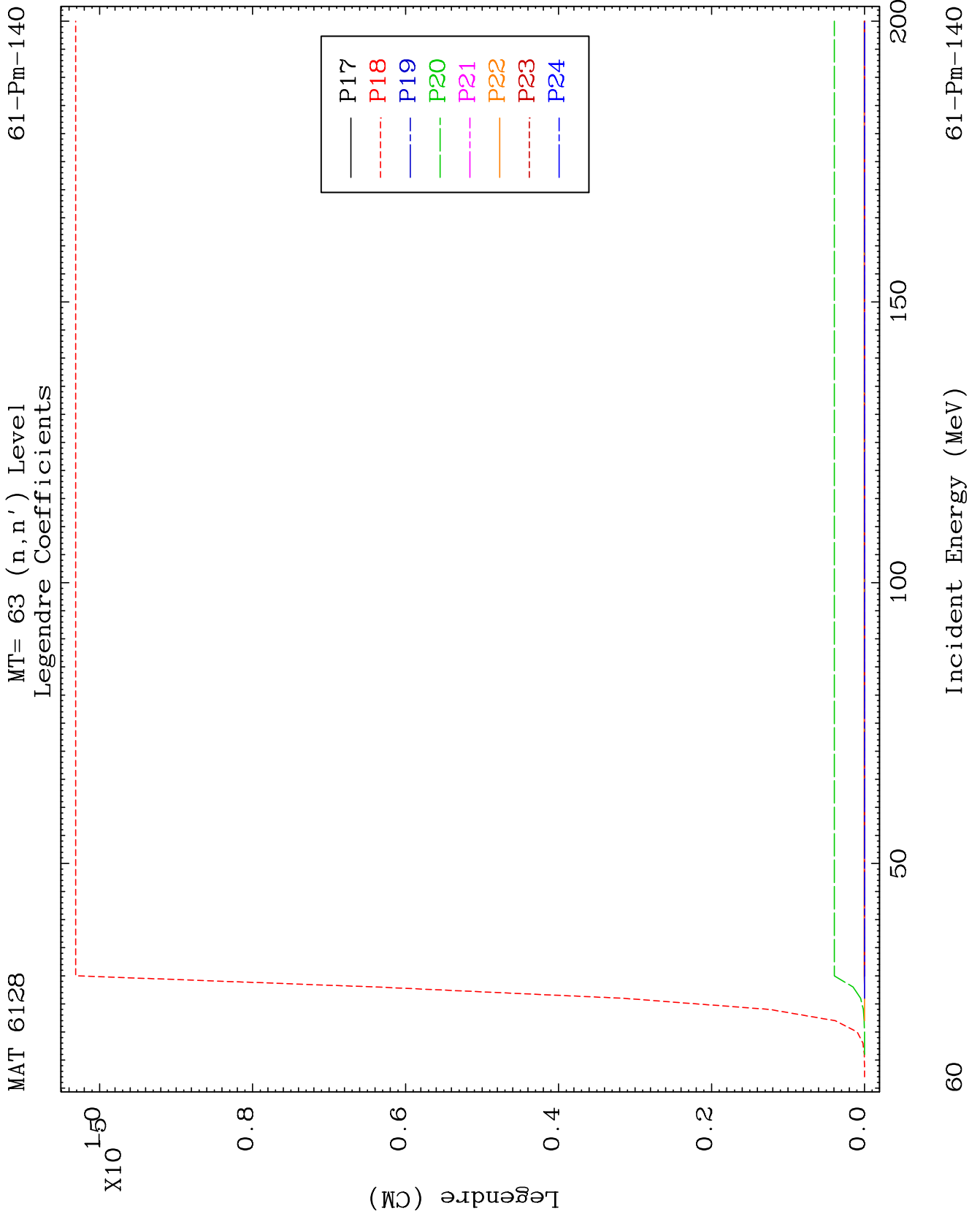
61-Pm-140



59

Incident Energy (MeV)

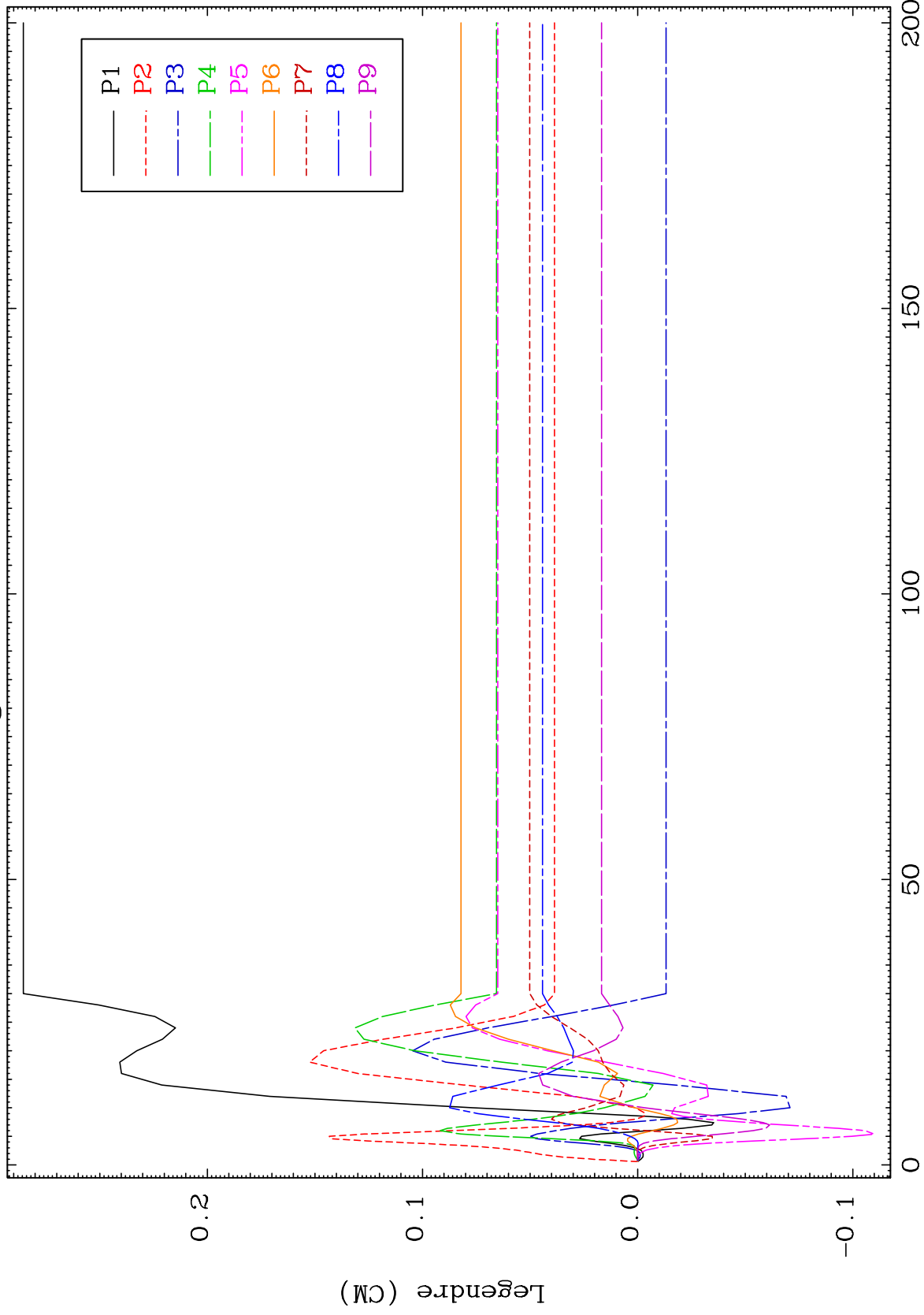
61-Pm-140



MAT 6128

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

61-Pm-140



61

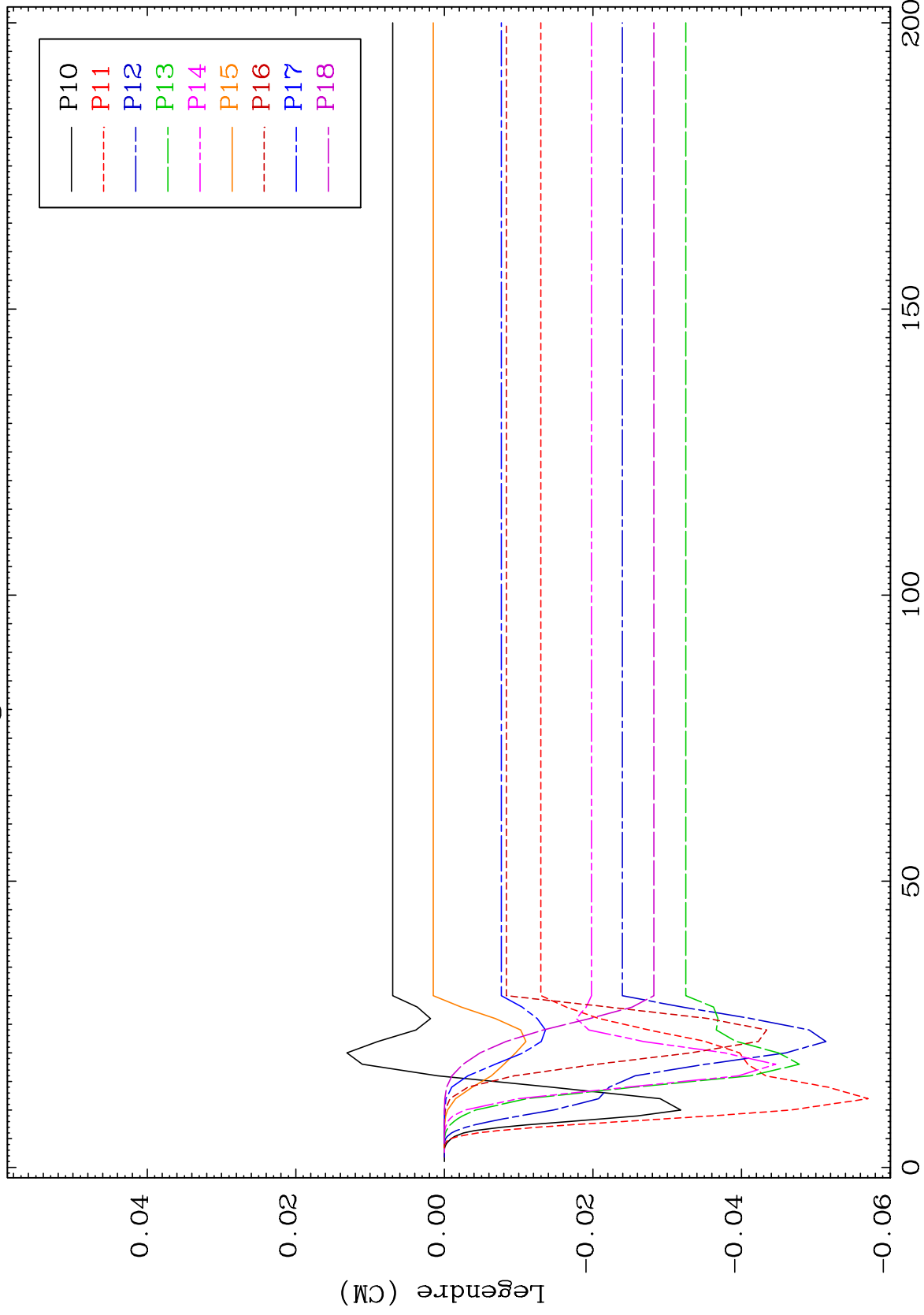
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

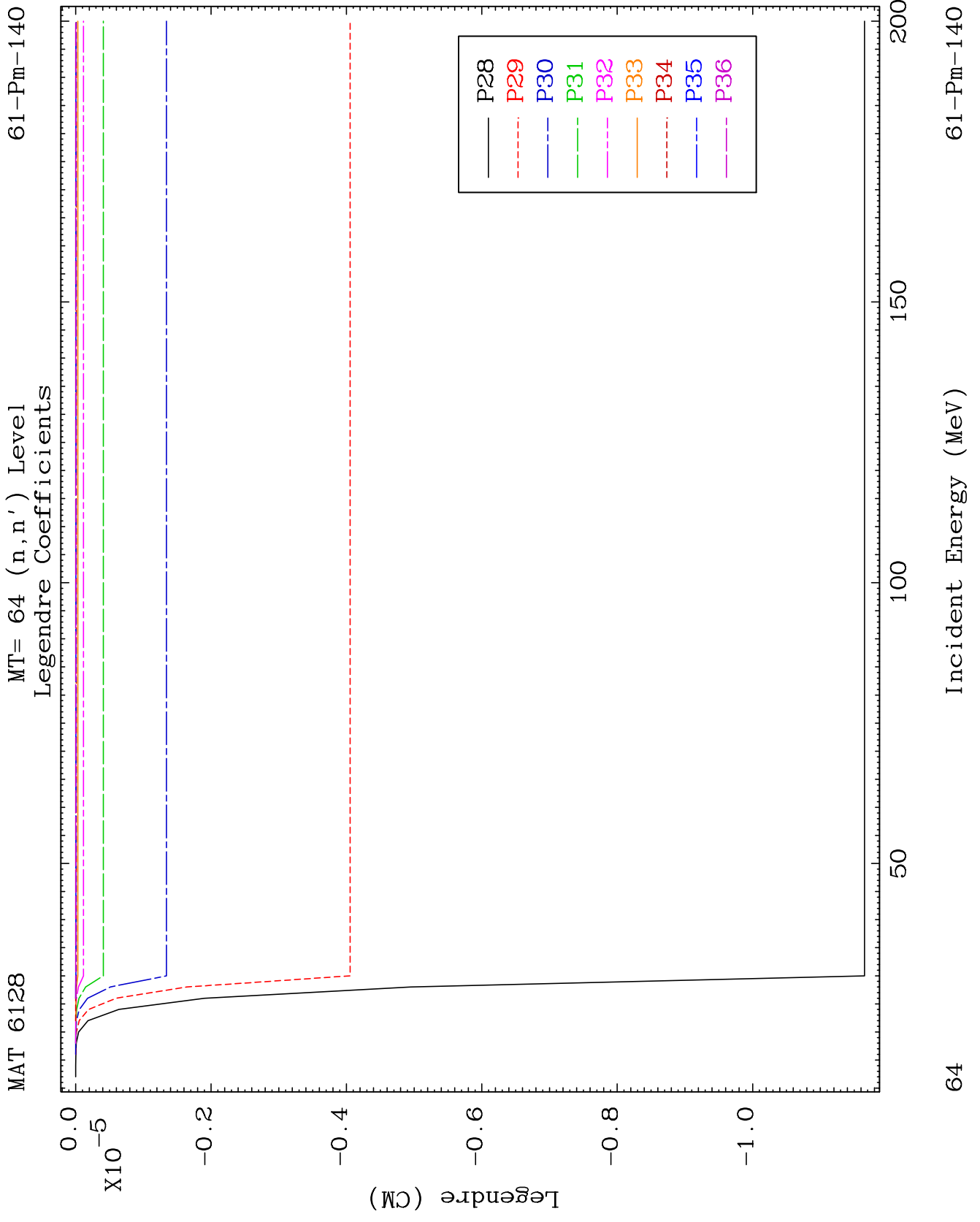
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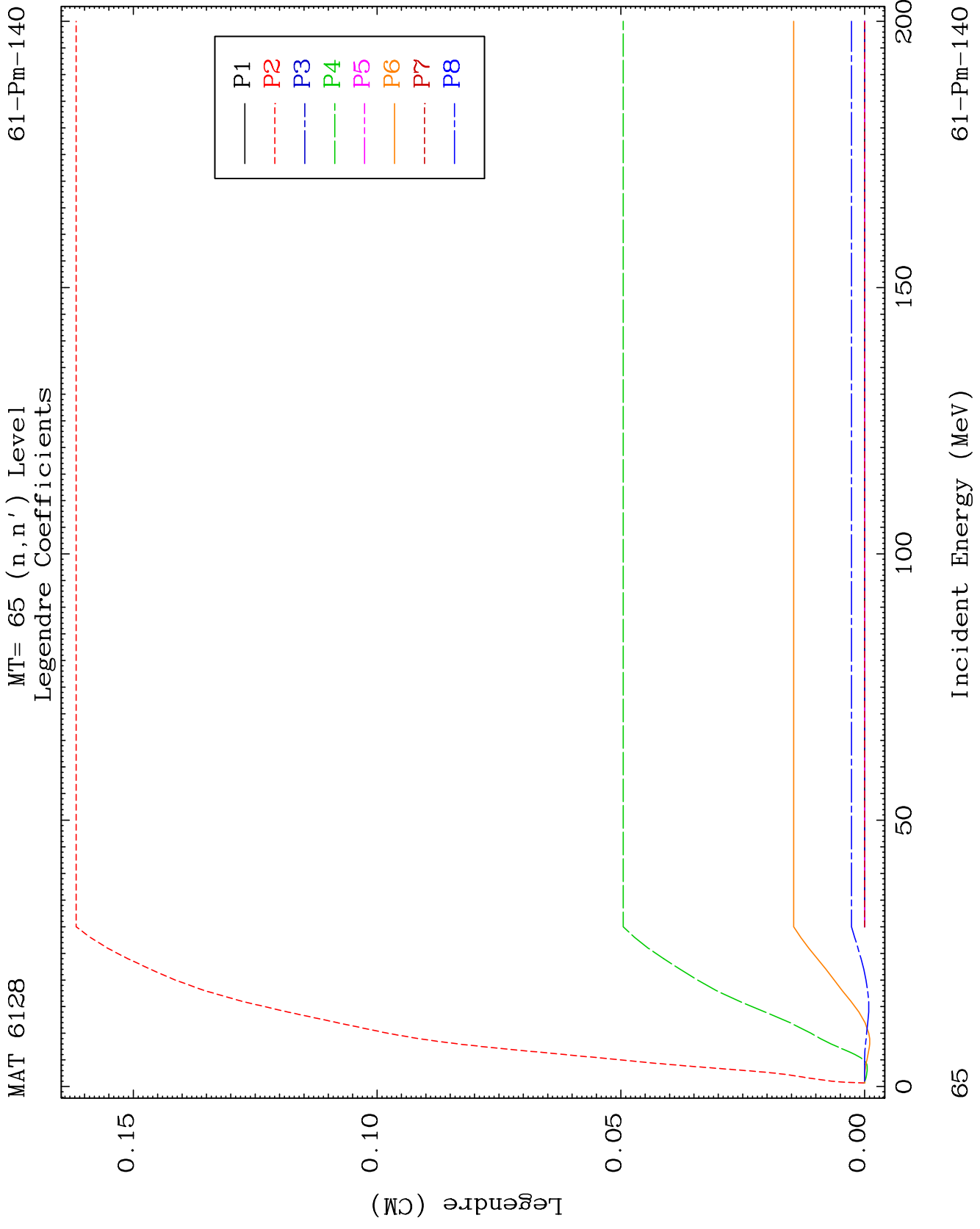


61-Pm-140

Incident Energy (MeV)

62

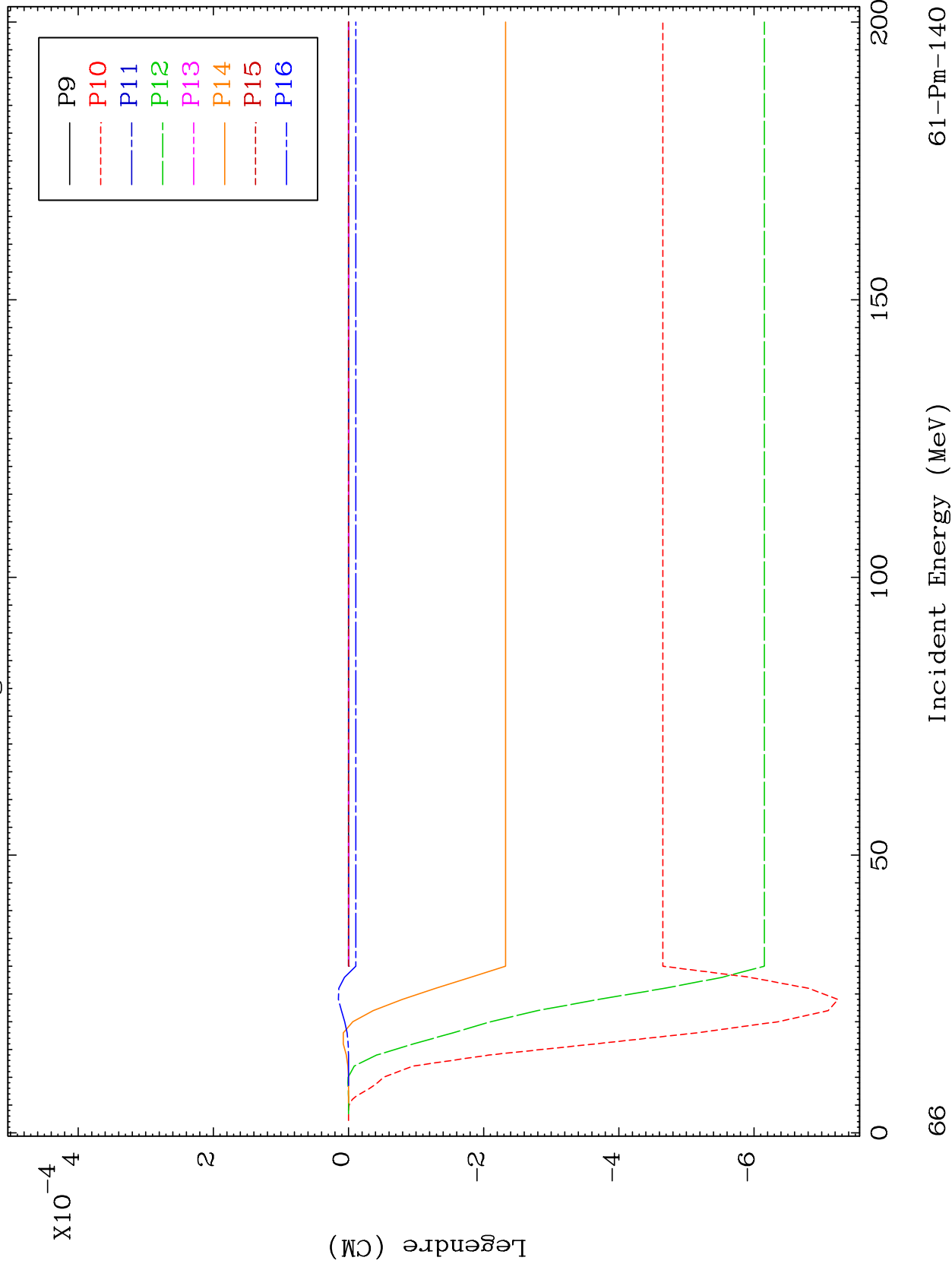




MAT 6128

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

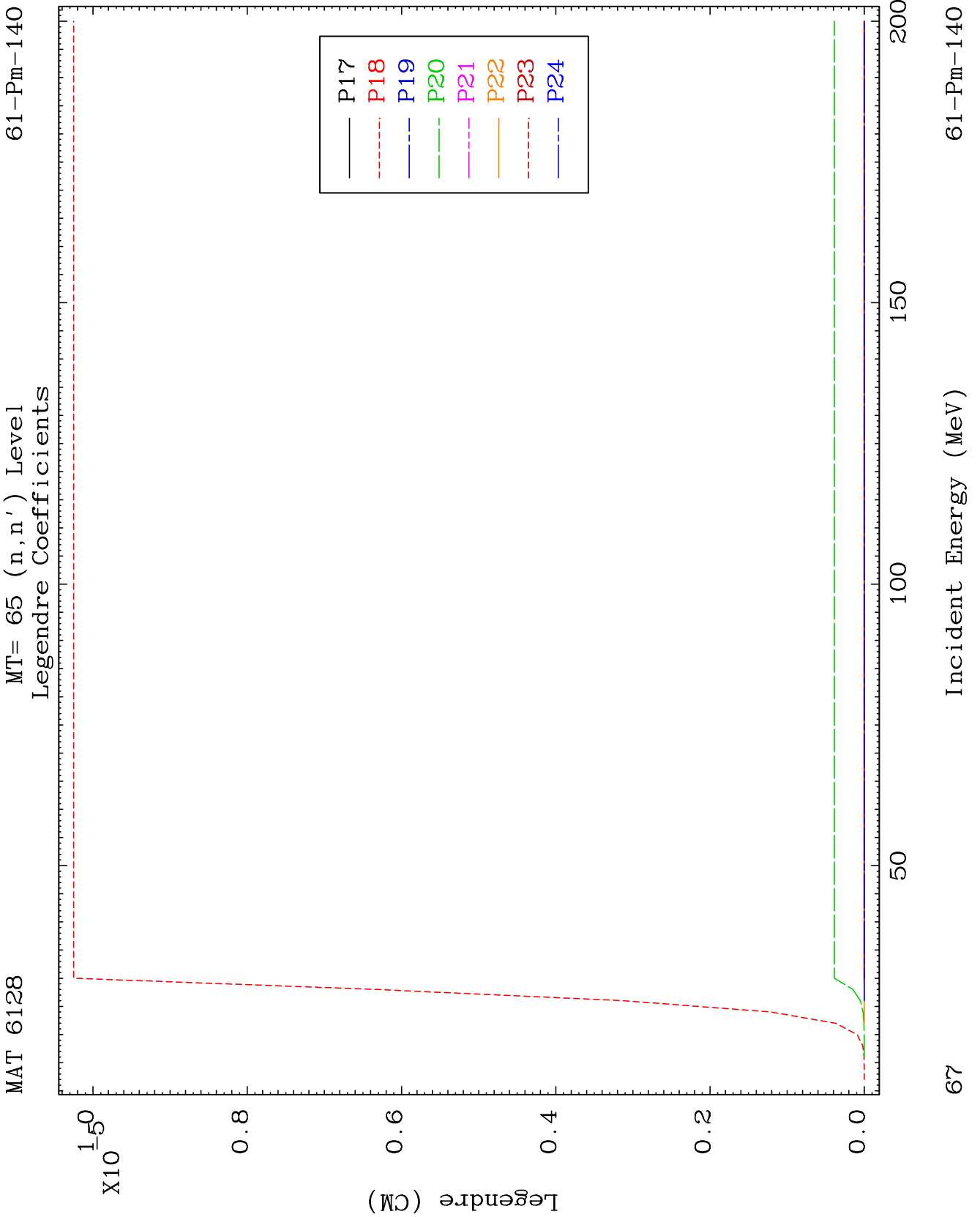
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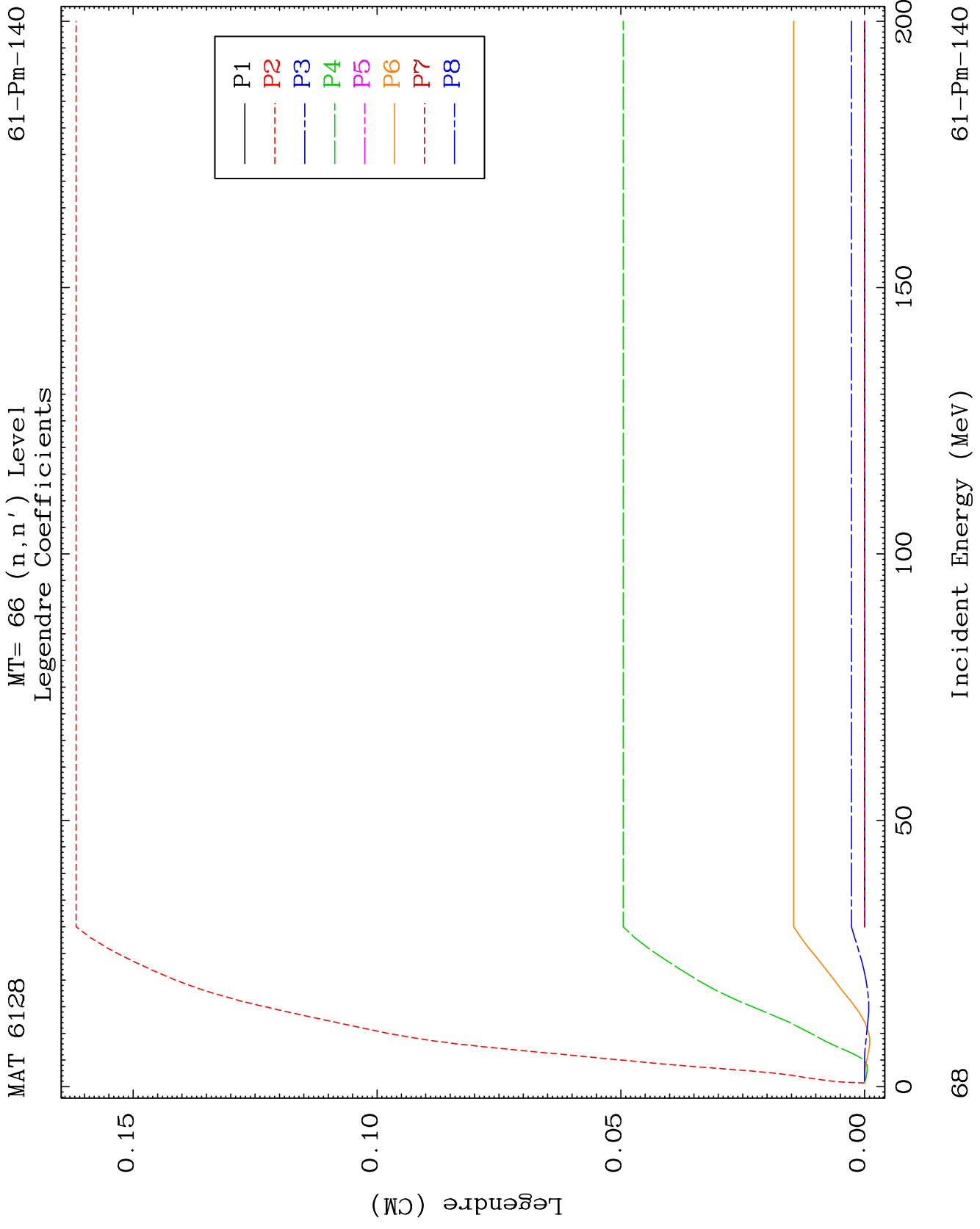


66

Incident Energy (MeV)

61-Pm-140

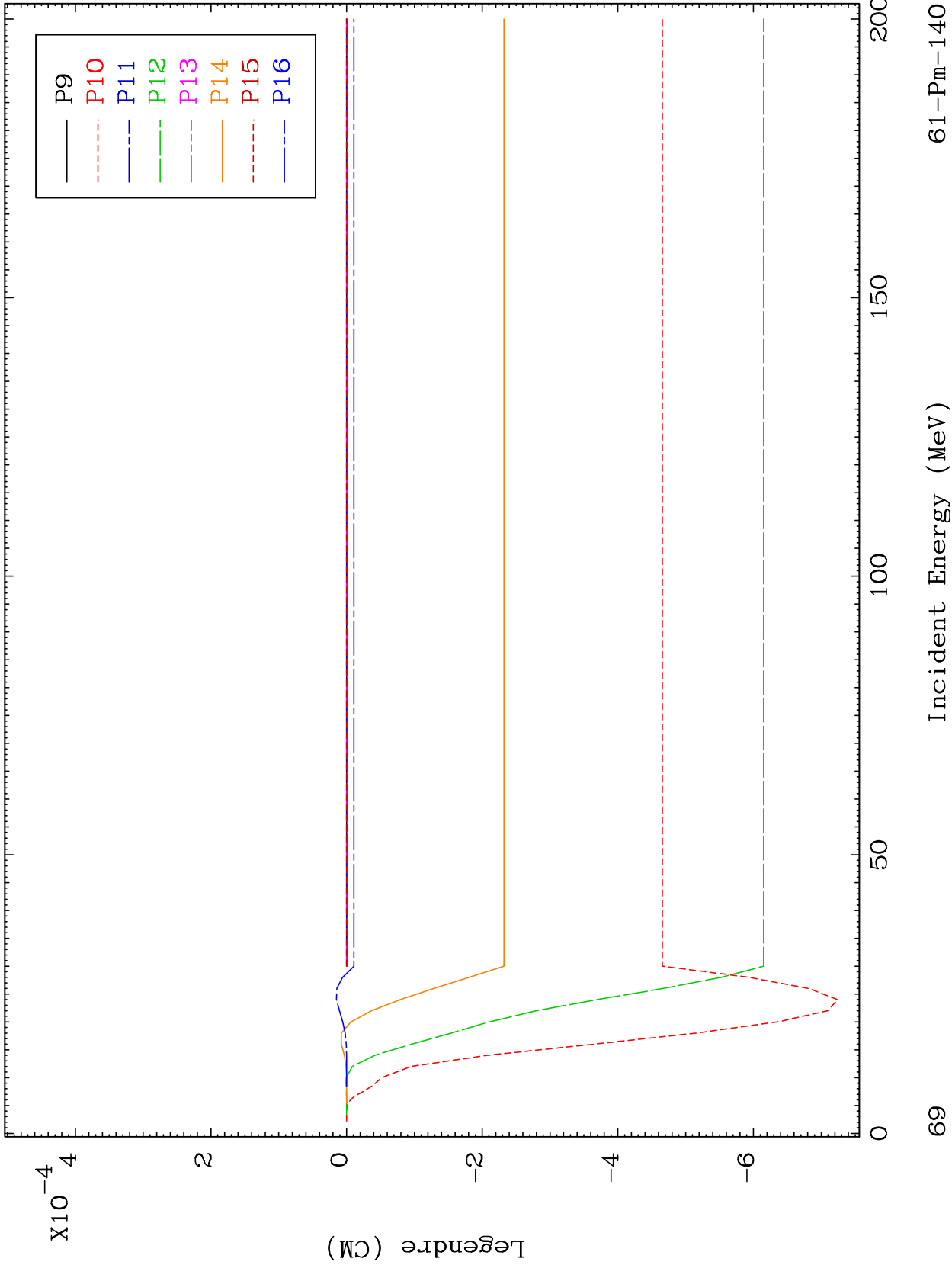




MAT 6128

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

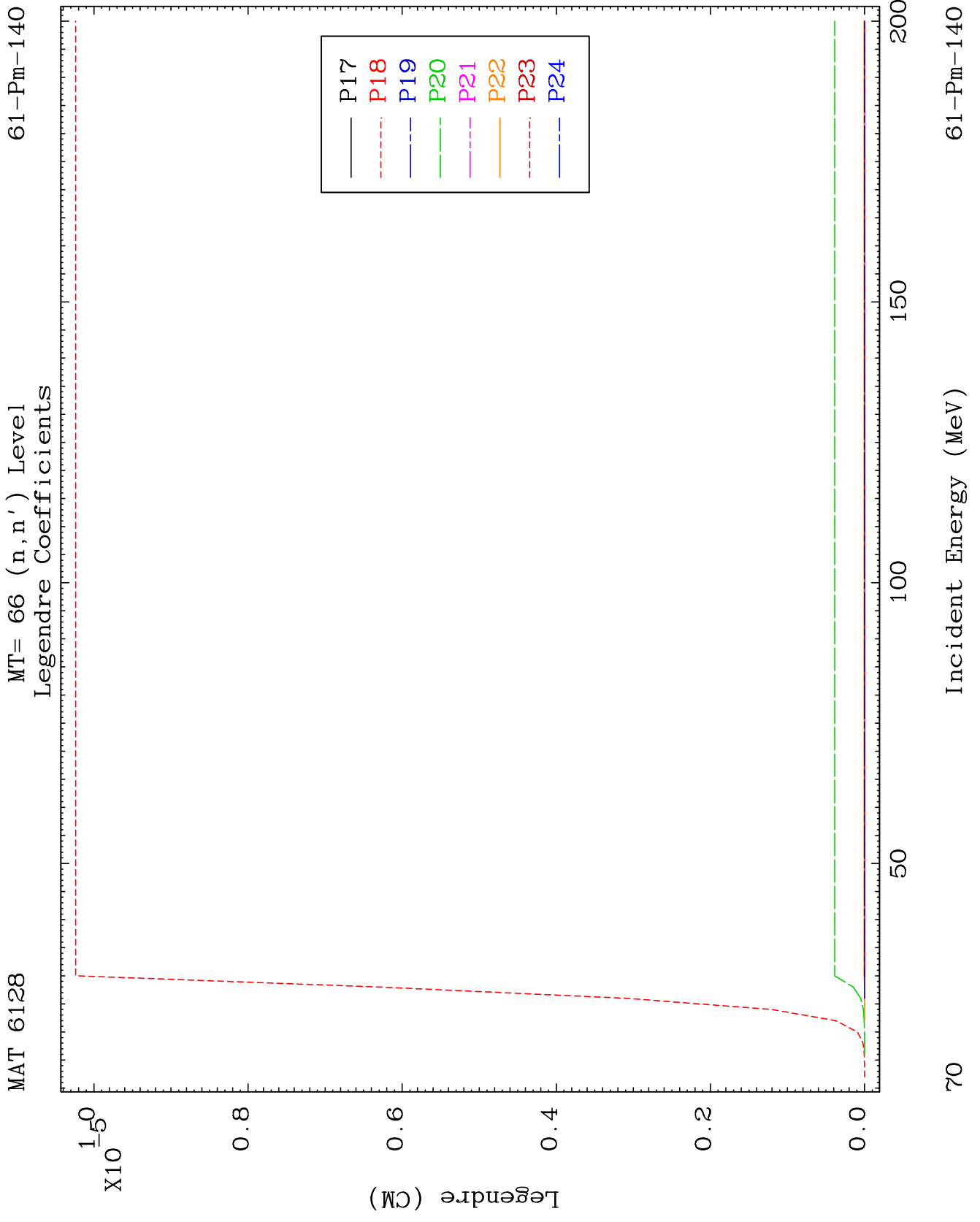
61-Pm-140



69

Incident Energy (MeV)

61-Pm-140

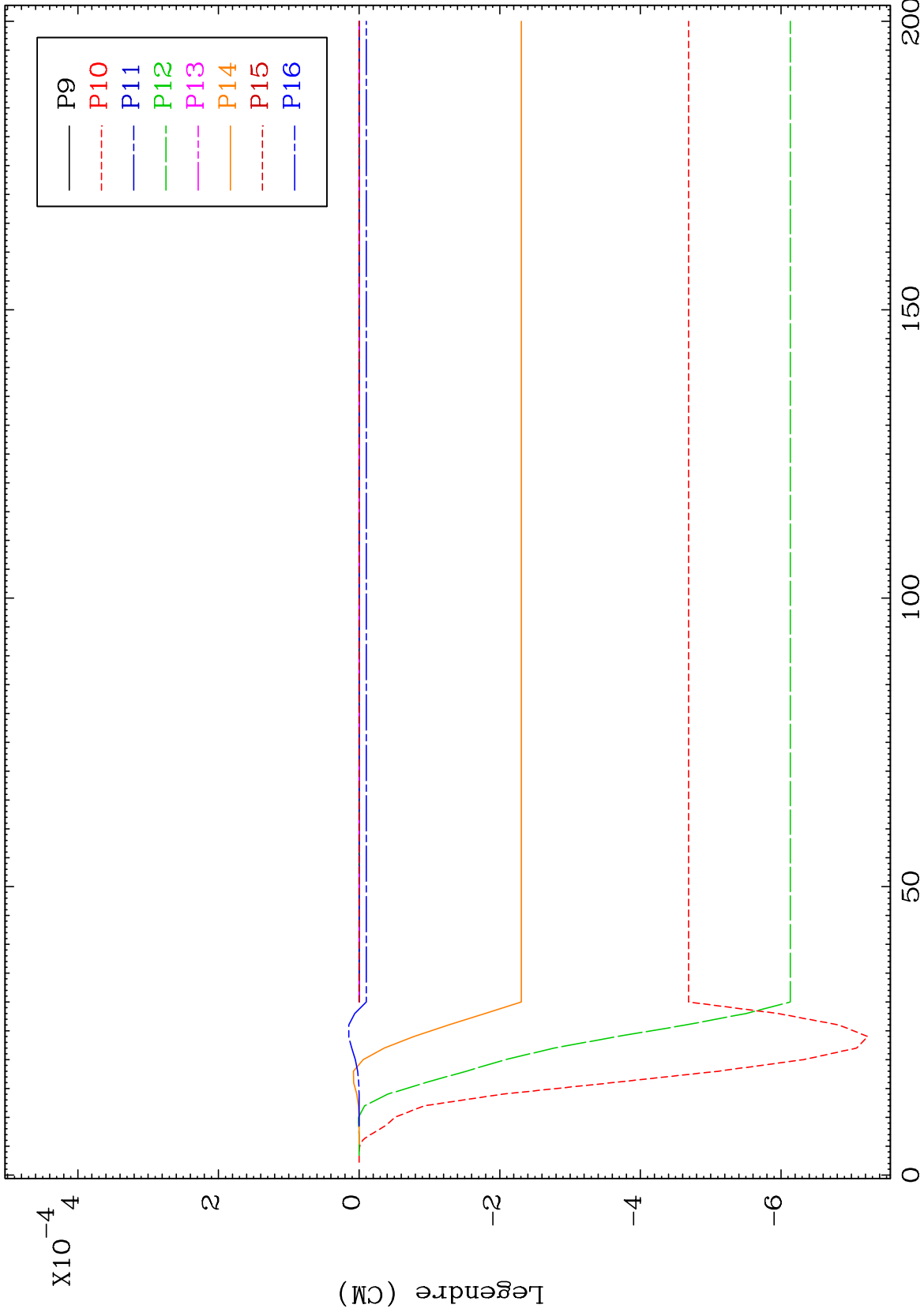


MAT 6128

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

61-Pm-140

$\times 10^{-4}$



72

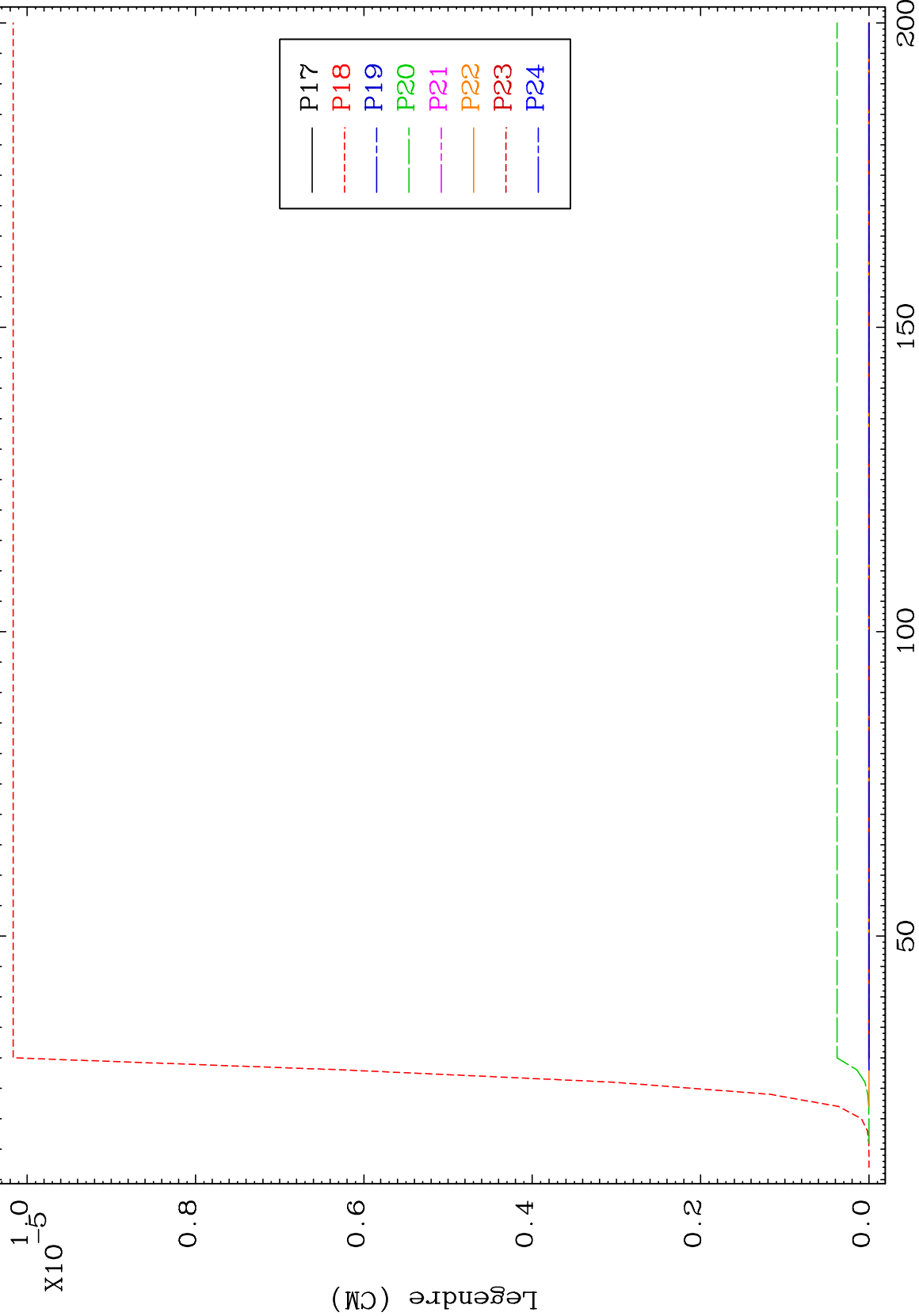
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

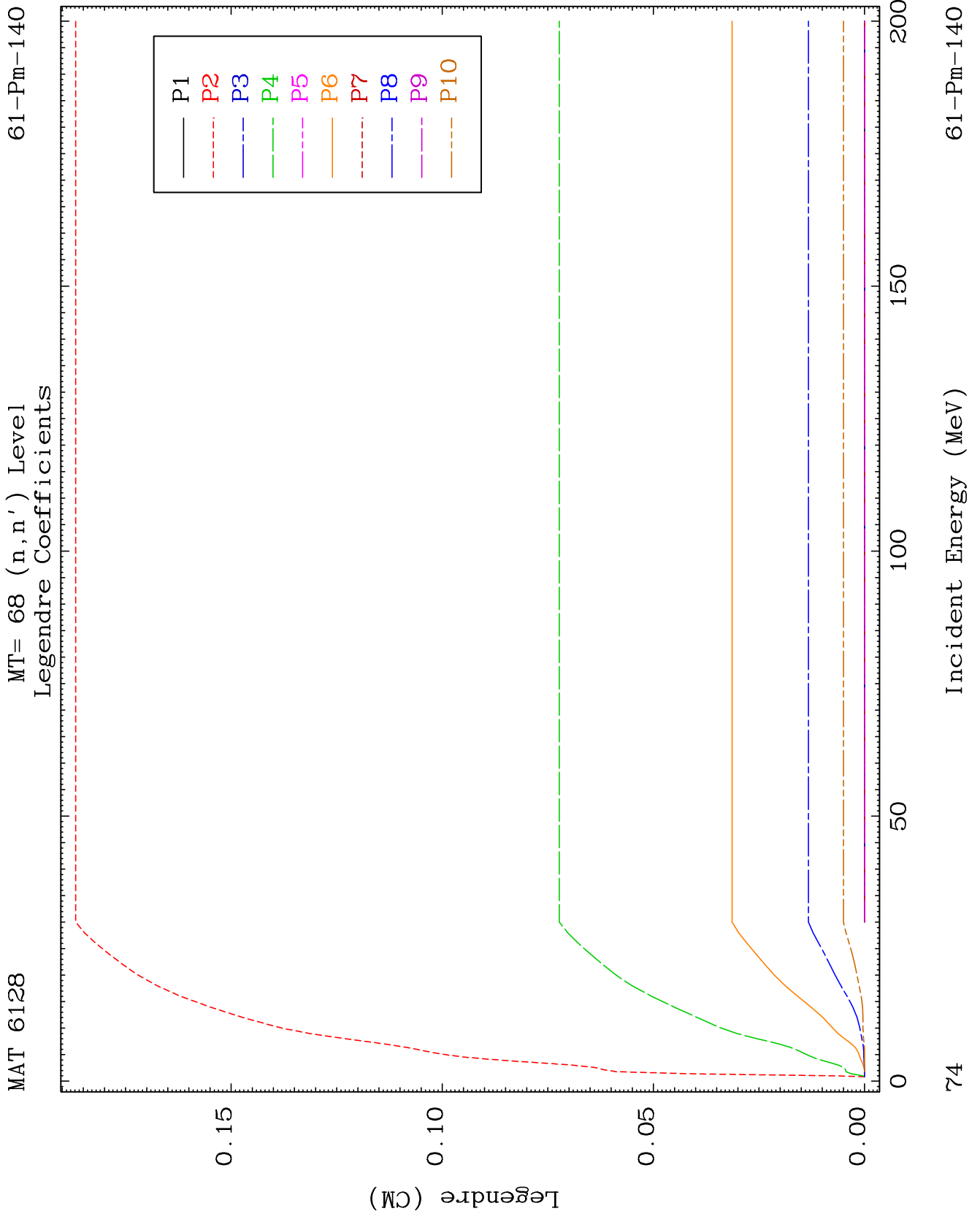
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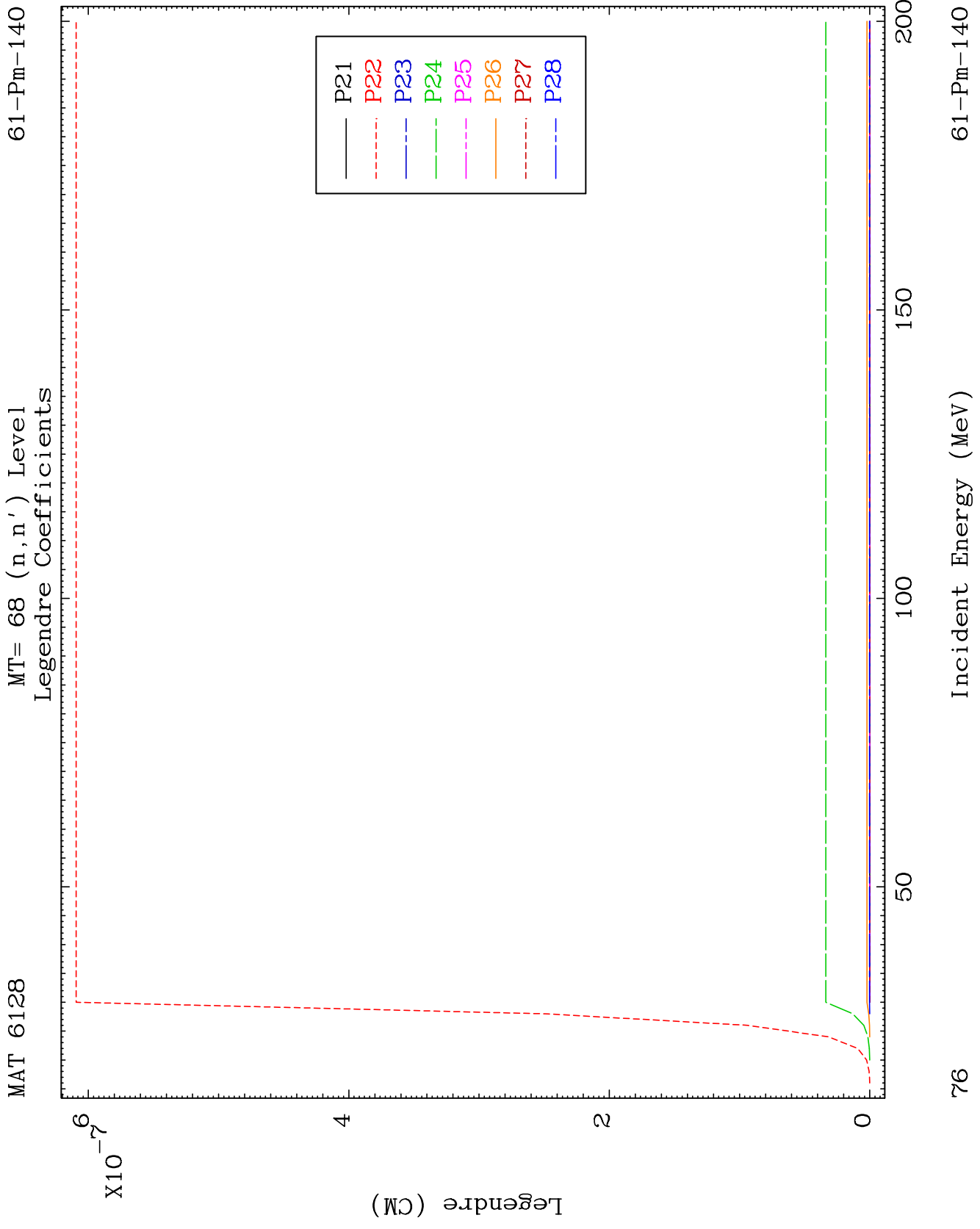


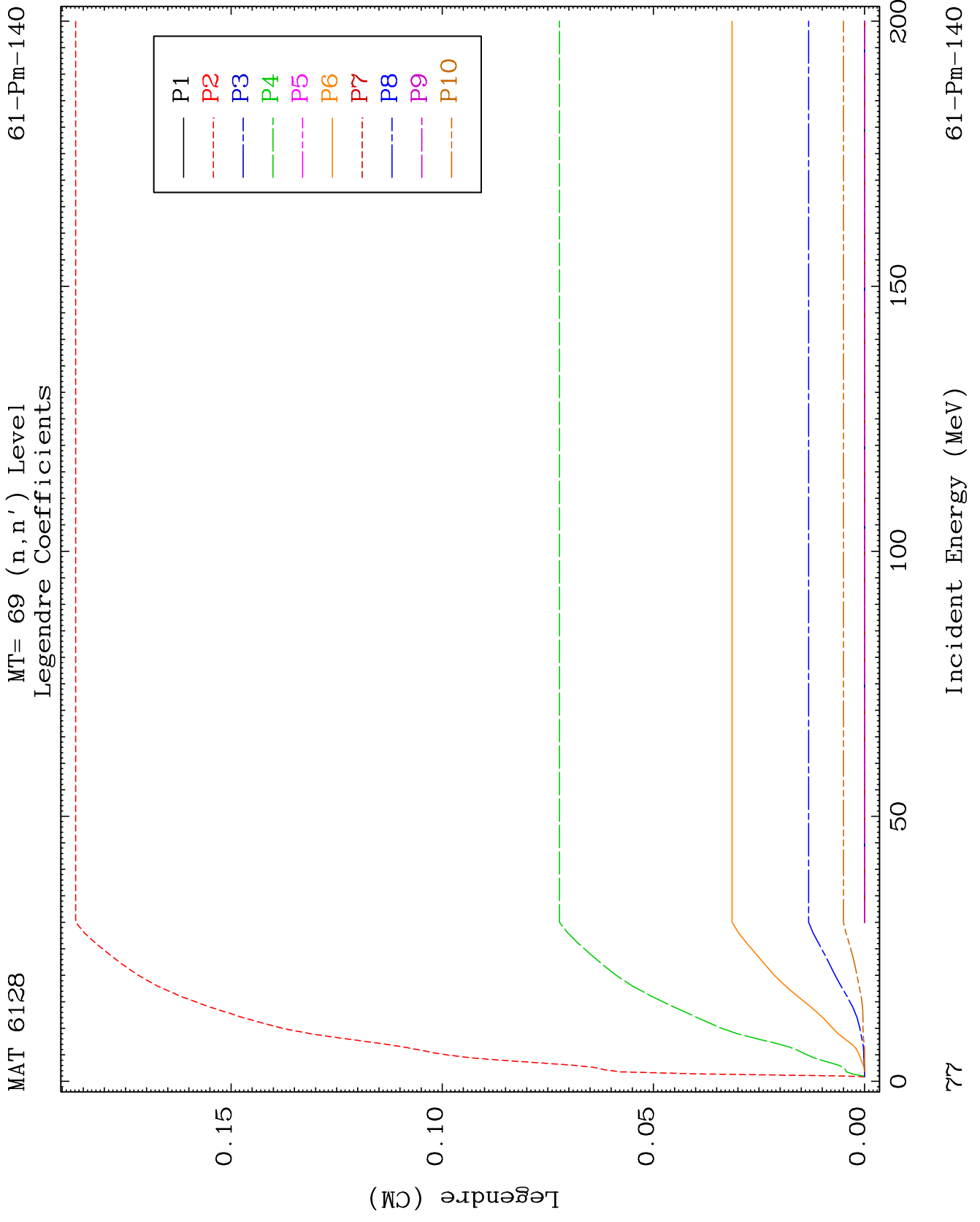
73

Incident Energy (MeV)

61-Pm-140



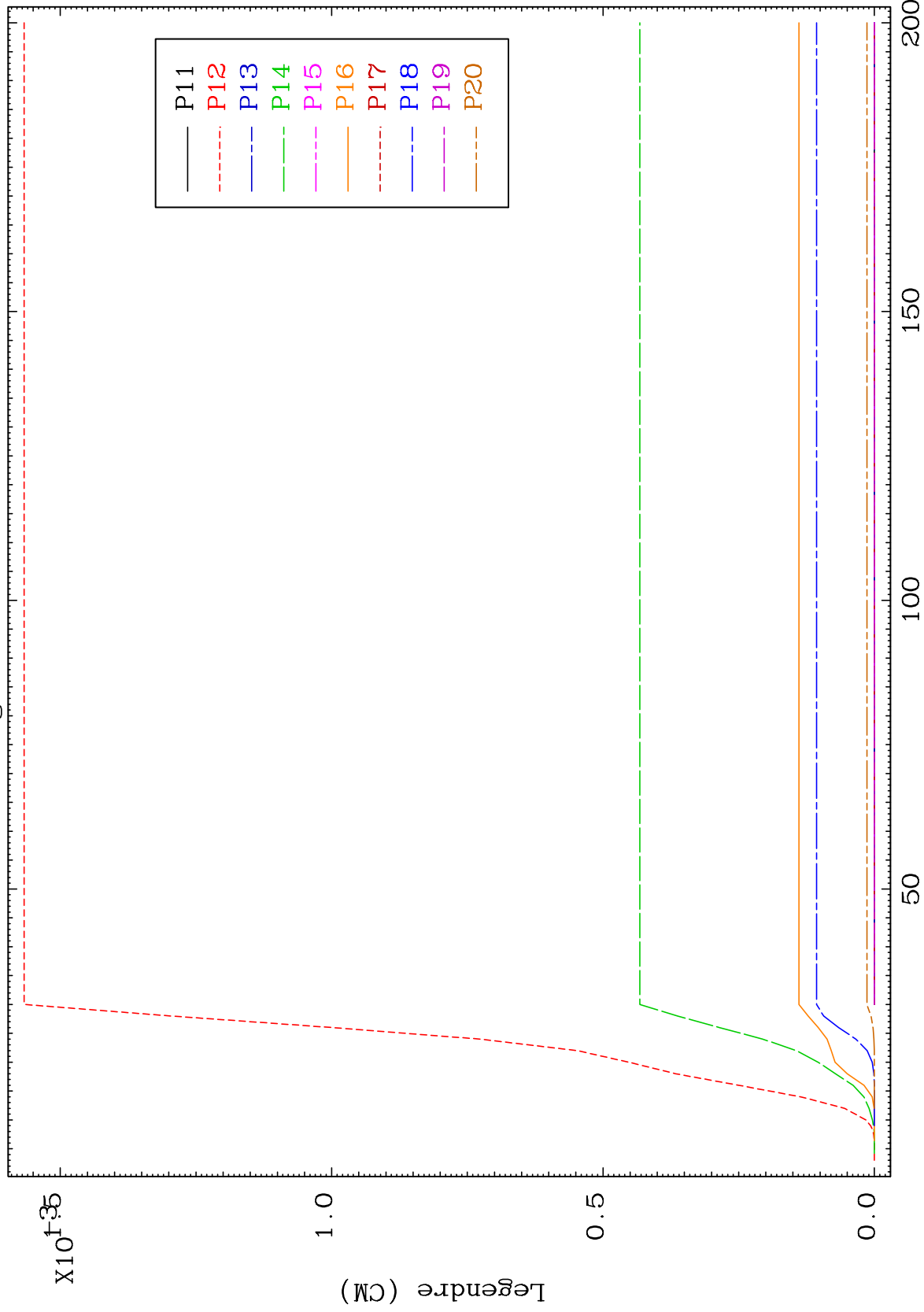




MAT 6128

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

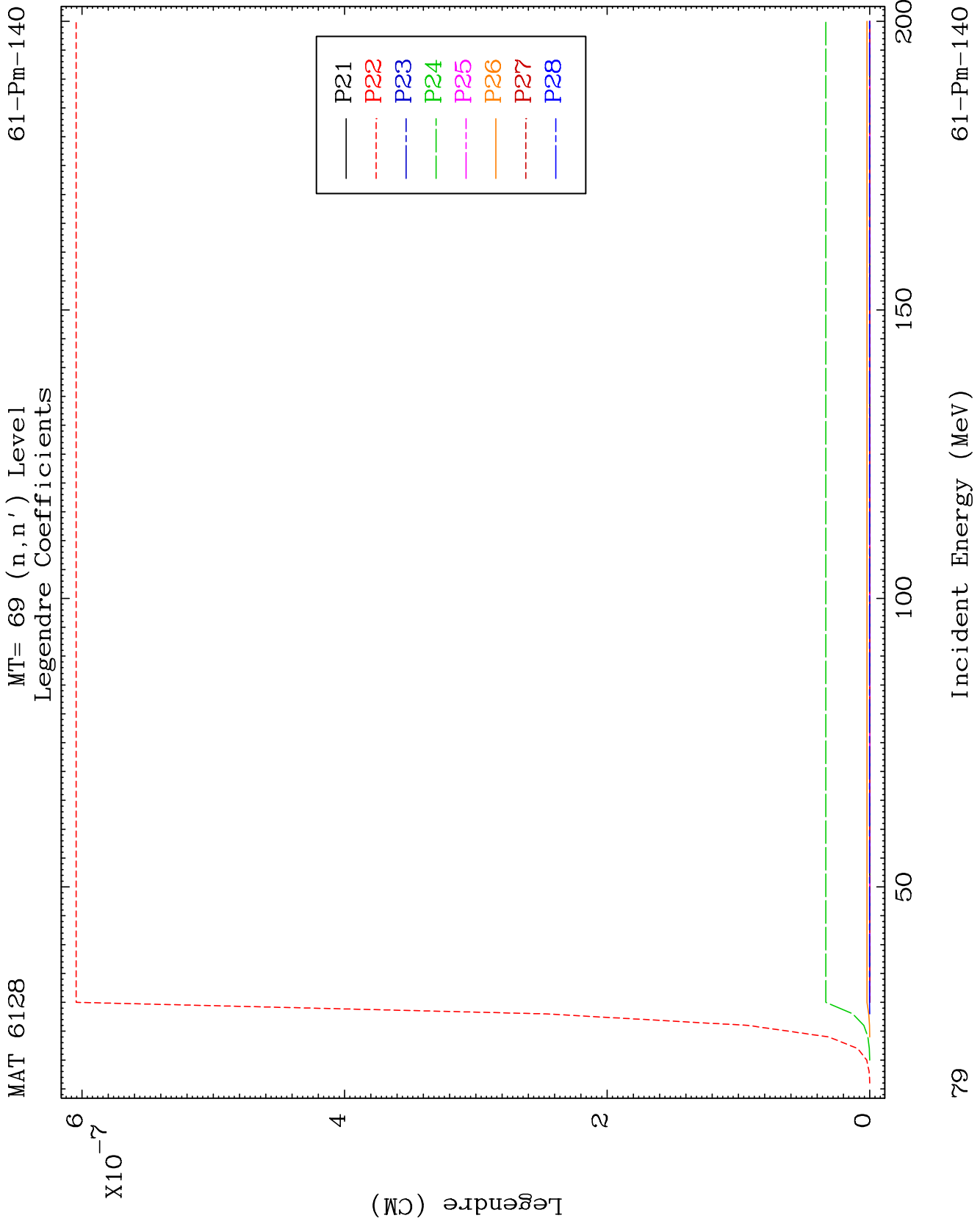
61-Pm-140



78

Incident Energy (MeV)

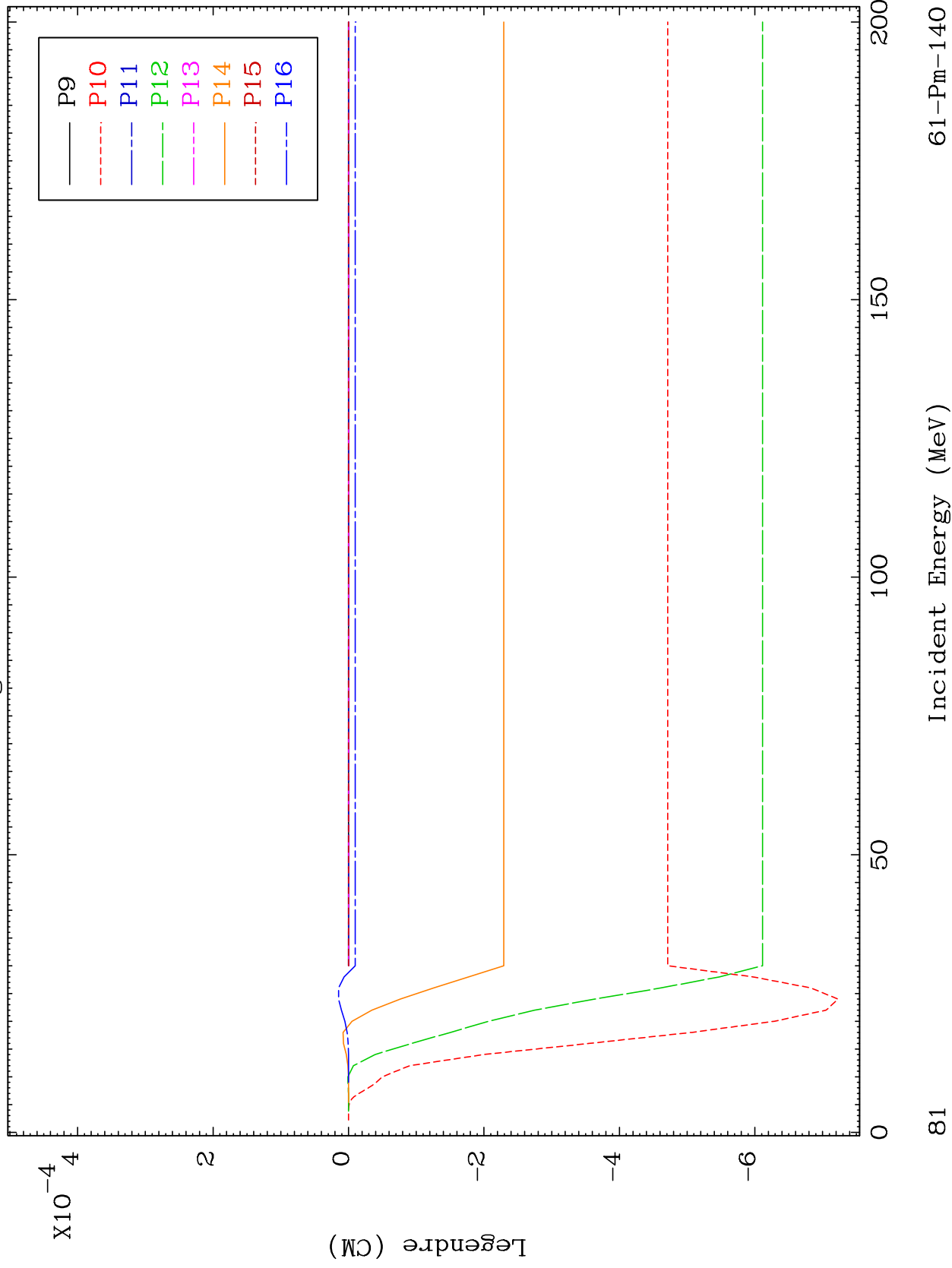
61-Pm-140



MAT 6128

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

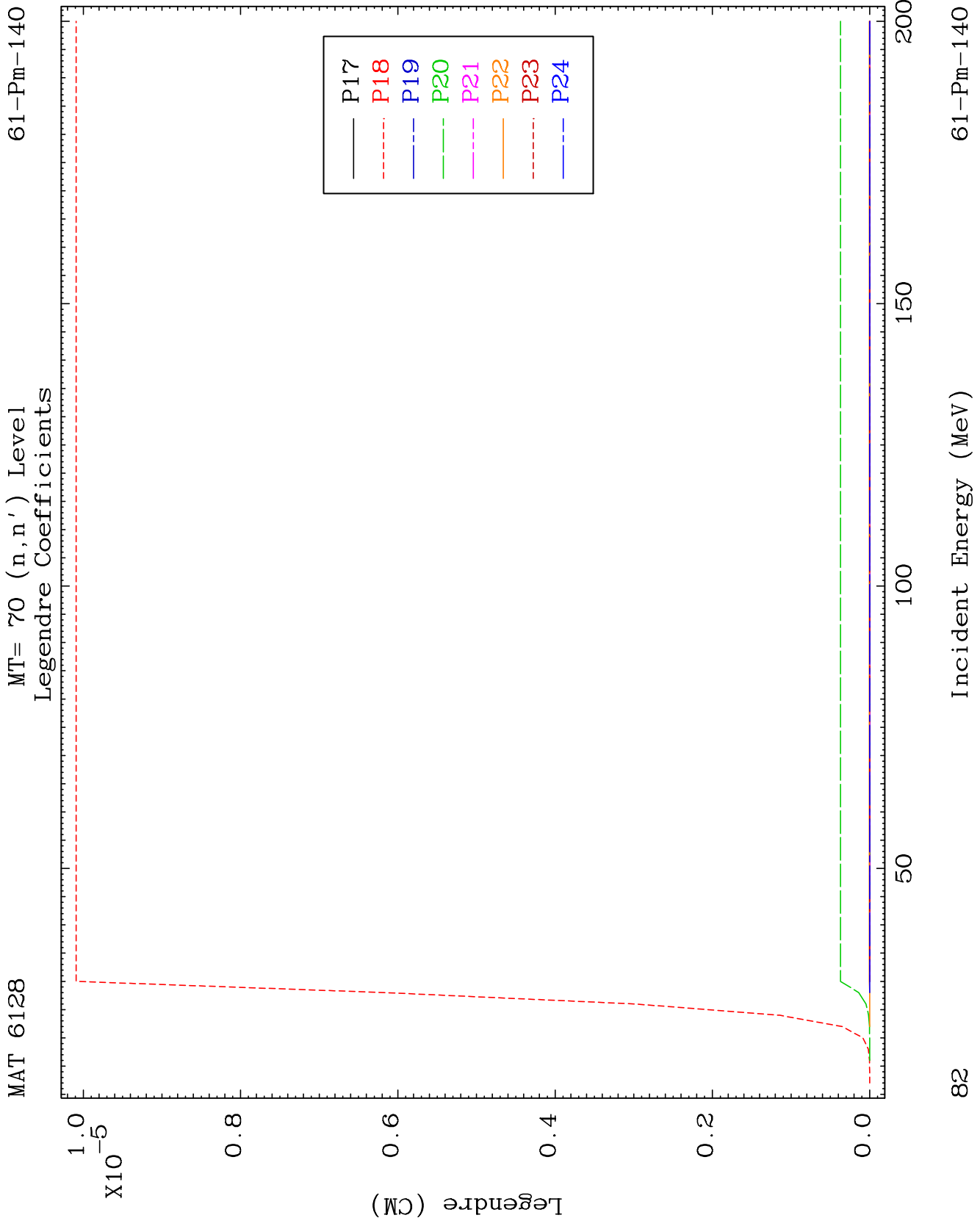
61-Pm-140

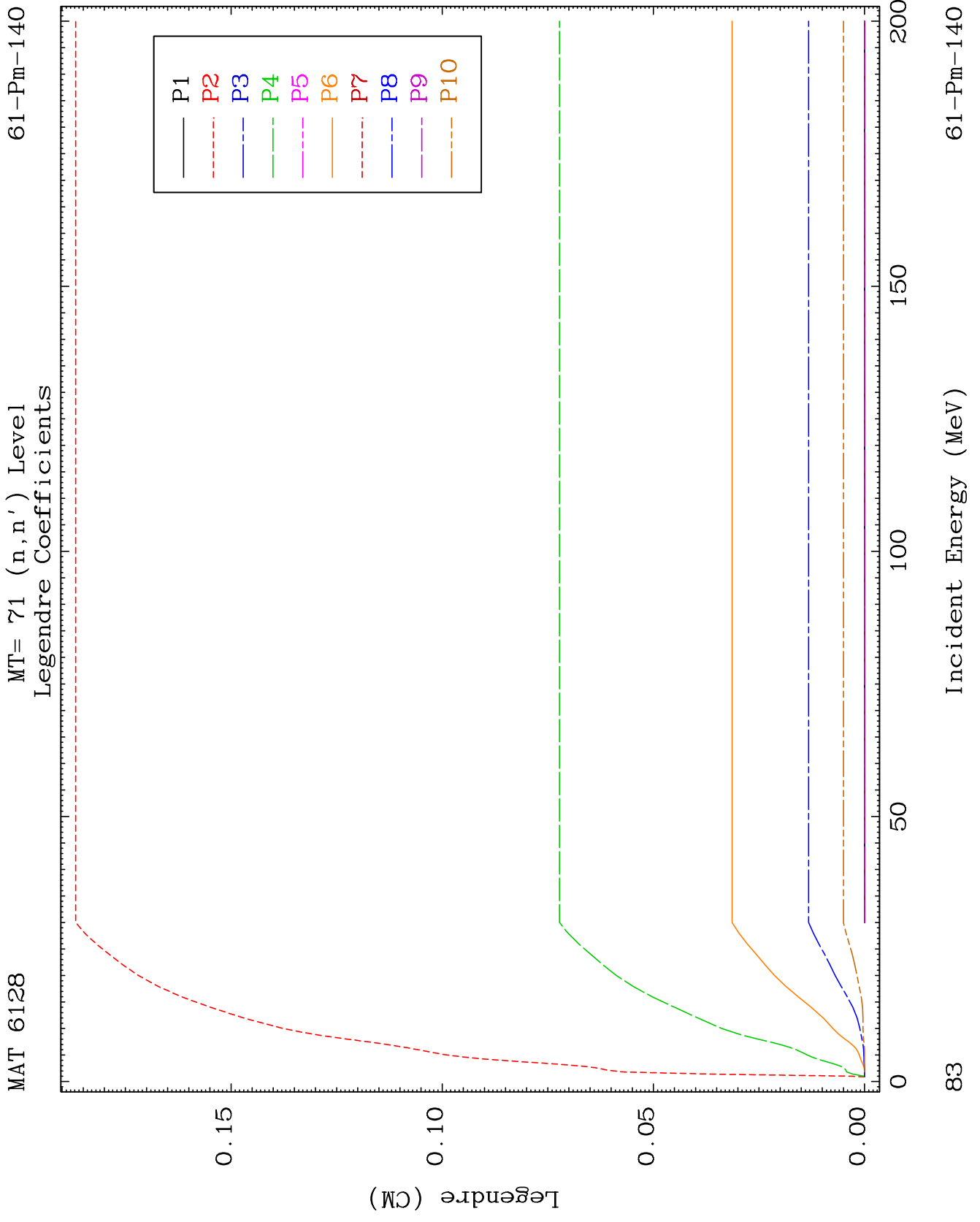


81

Incident Energy (MeV)

61-Pm-140

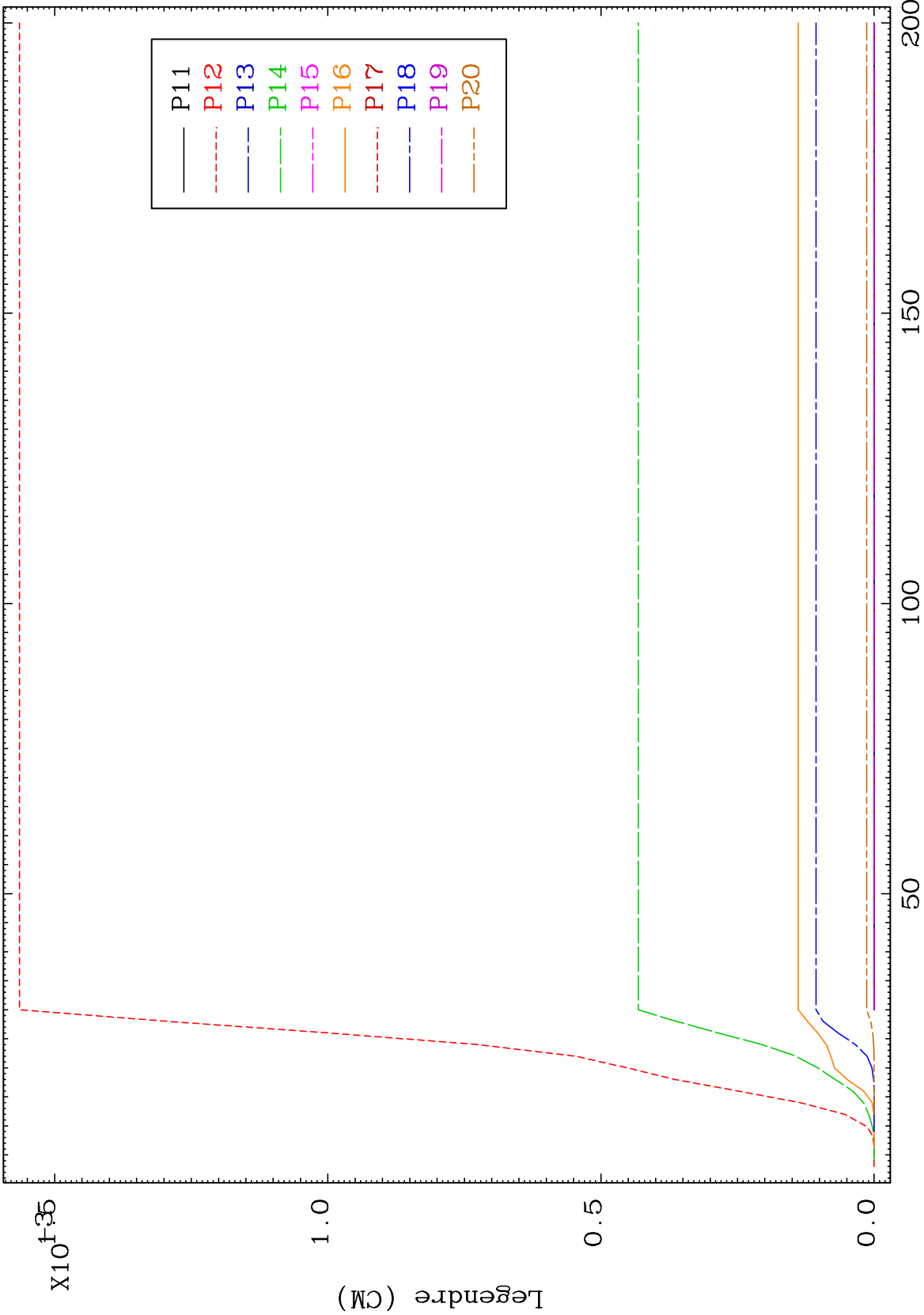




MAT 6128

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

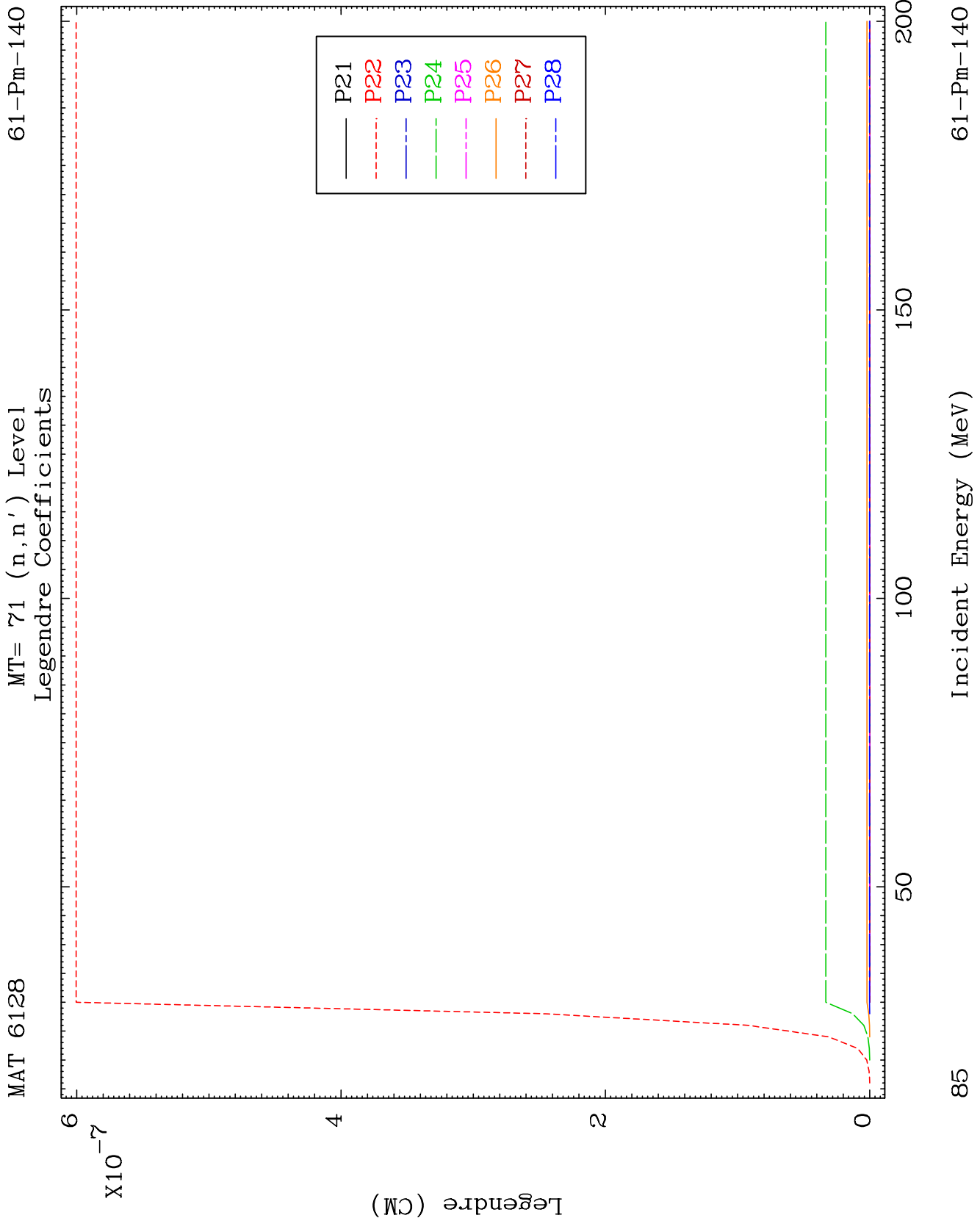
61-Pm-140



84

Incident Energy (MeV)

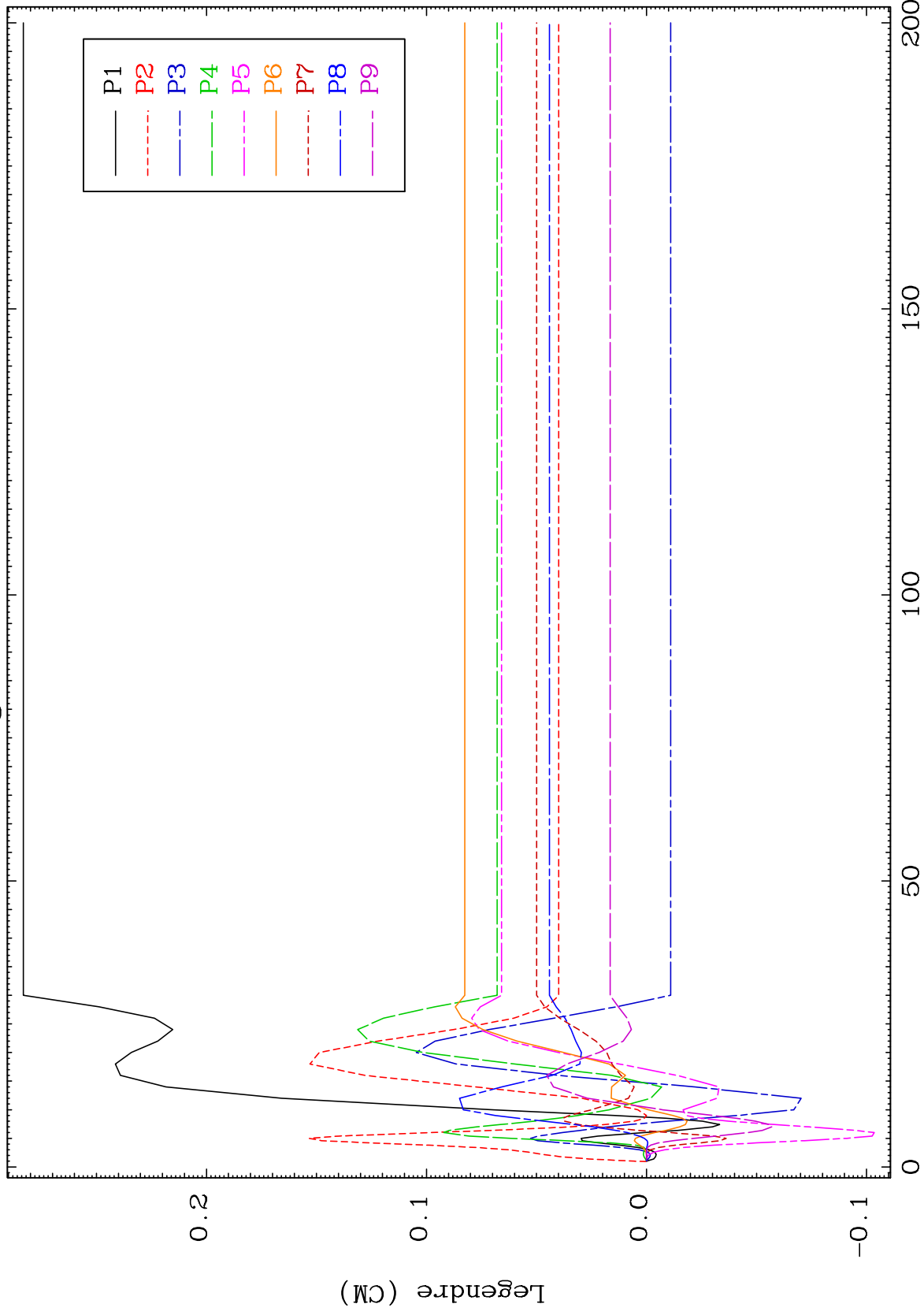
61-Pm-140



MAT 6128

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

61-Pm-140



86

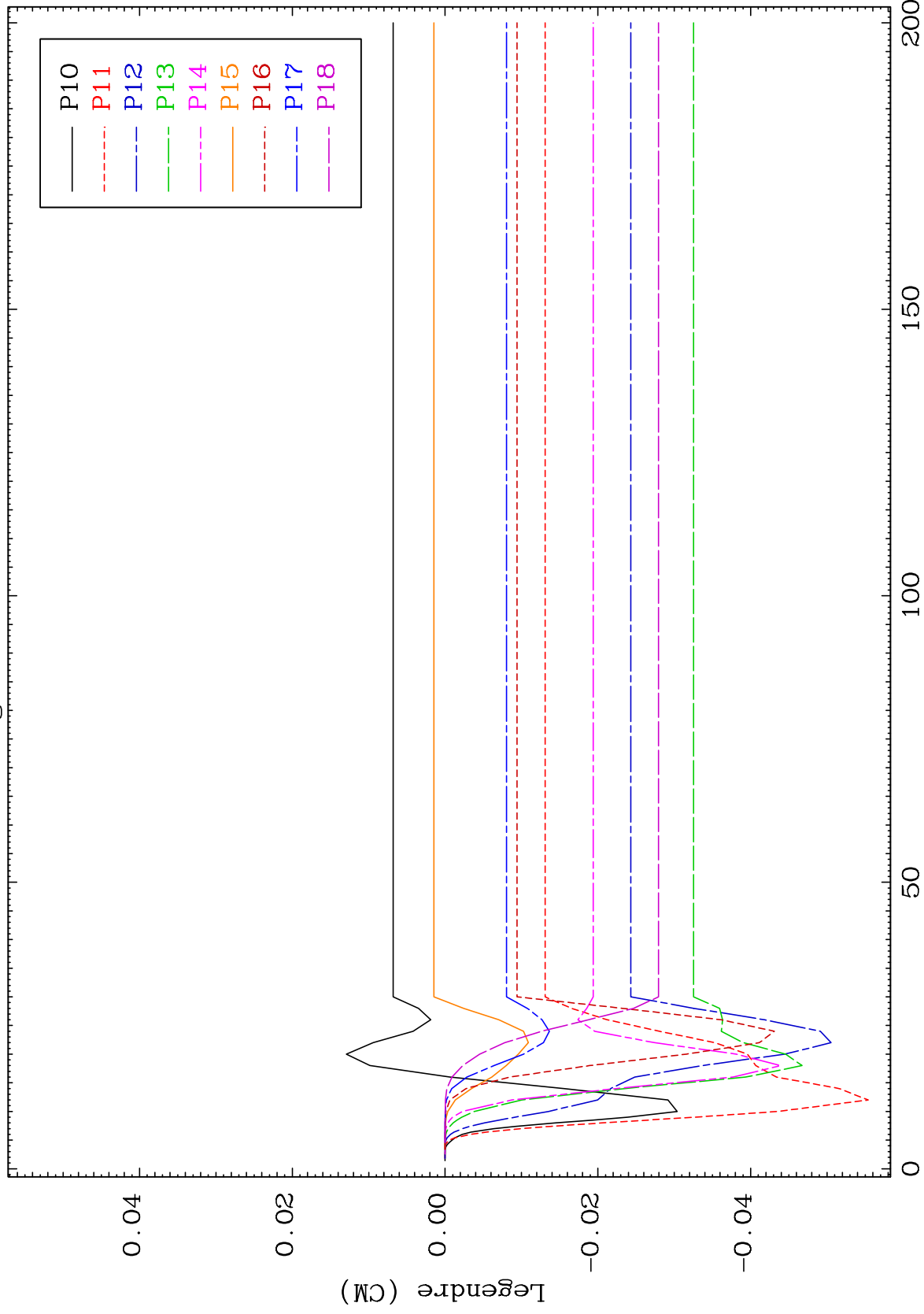
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

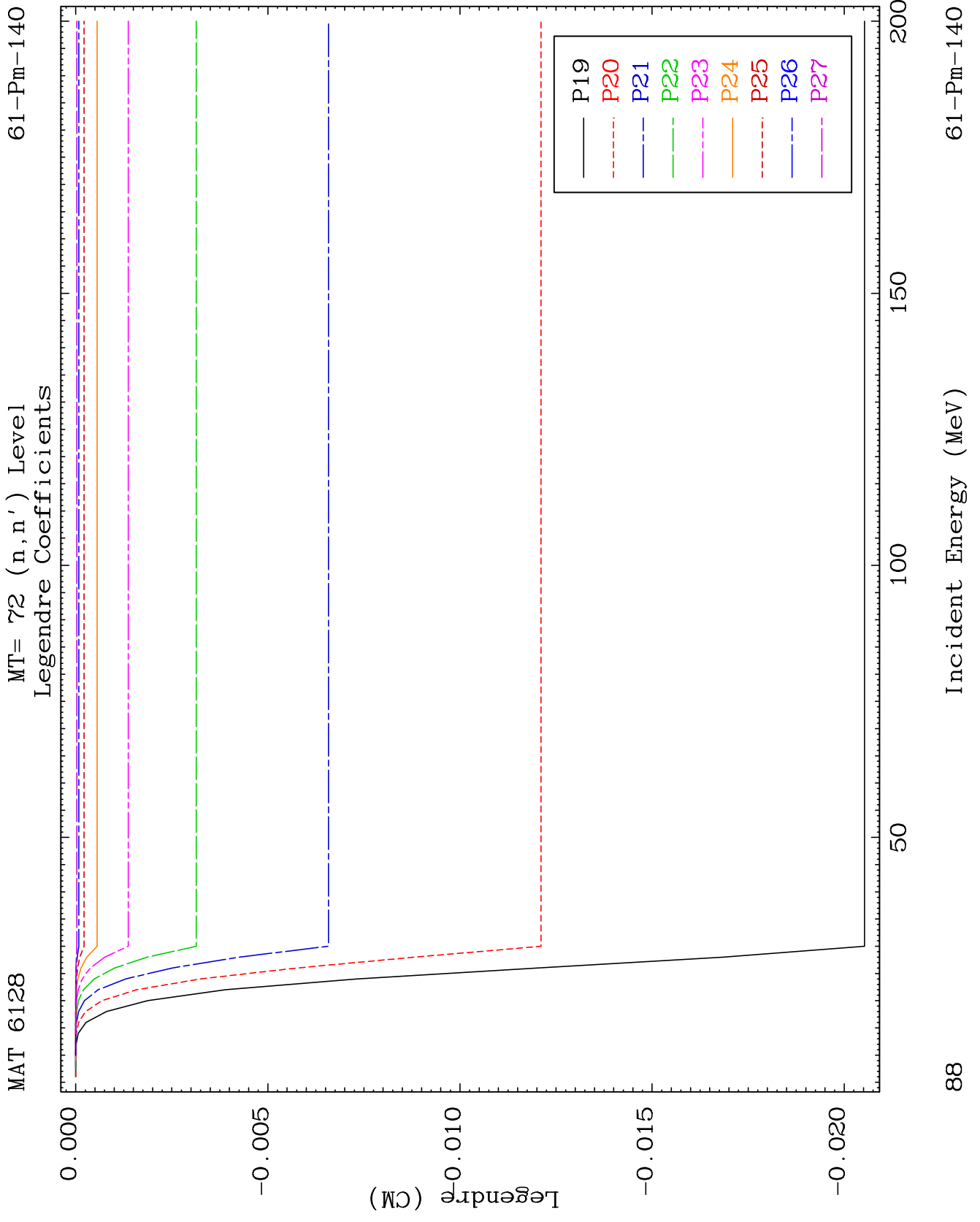
61-Pm-140

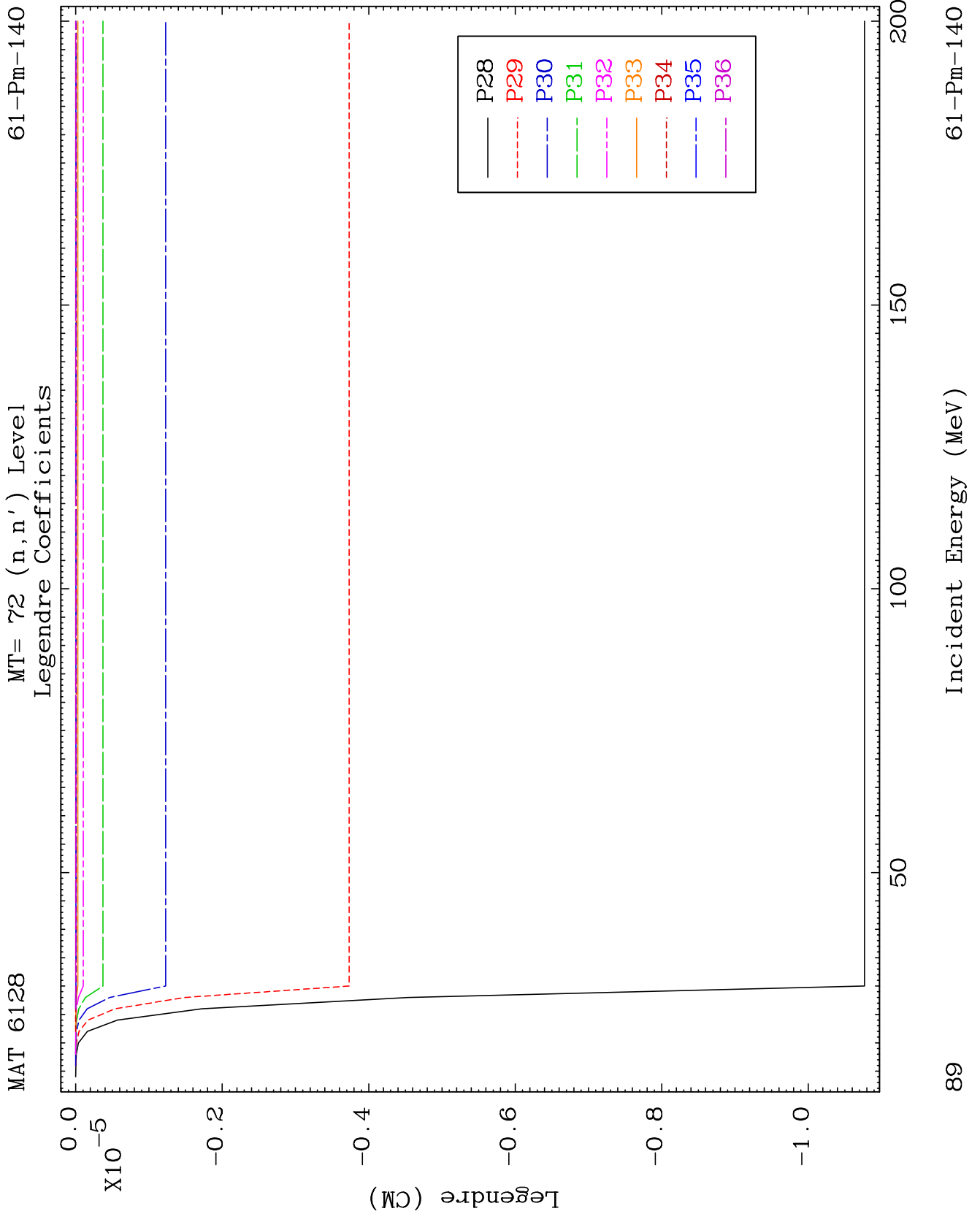


87

Incident Energy (MeV)

61-Pm-140

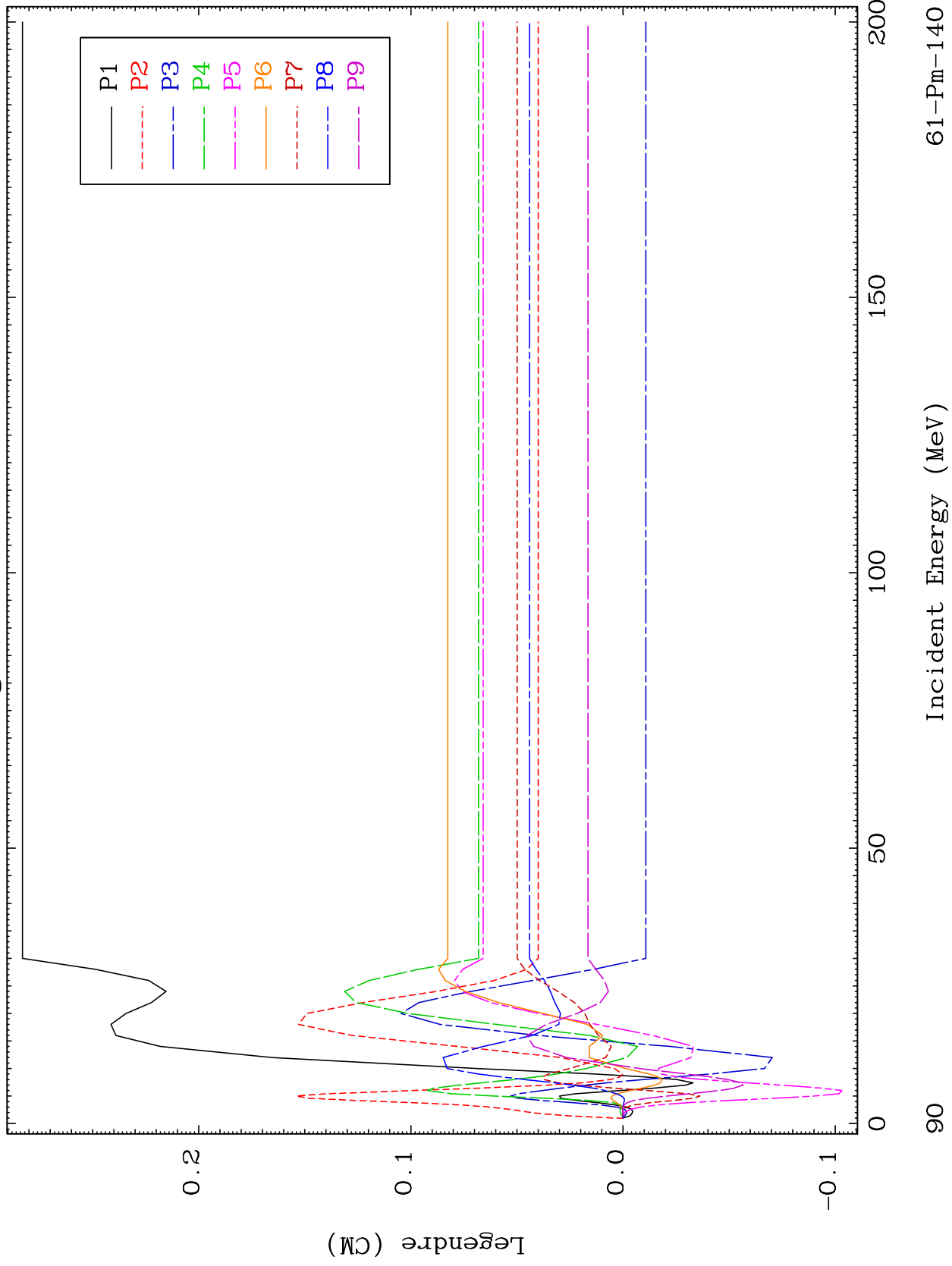




MAT 6128

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

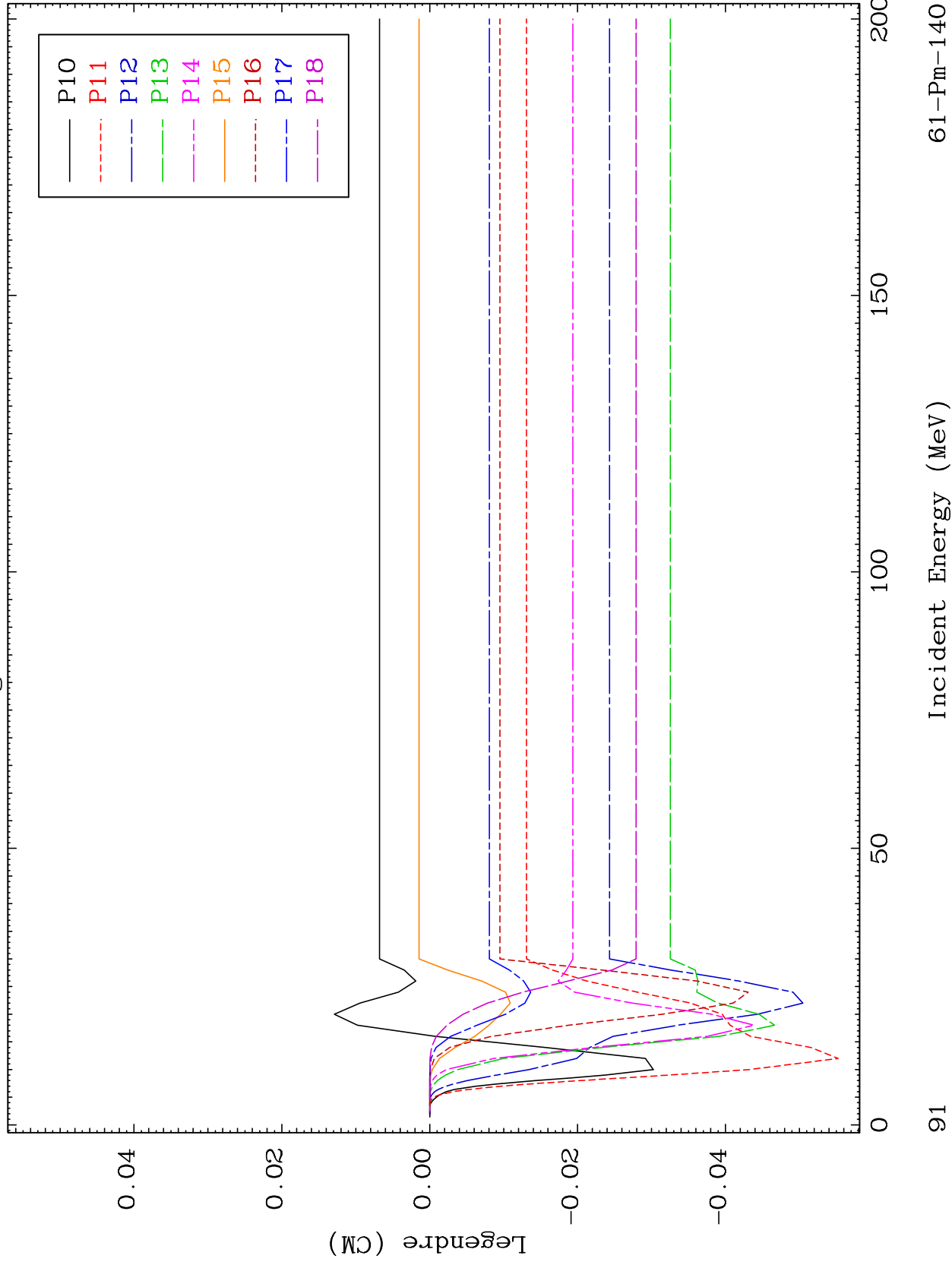
61-Pm-140



MAT 6128

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

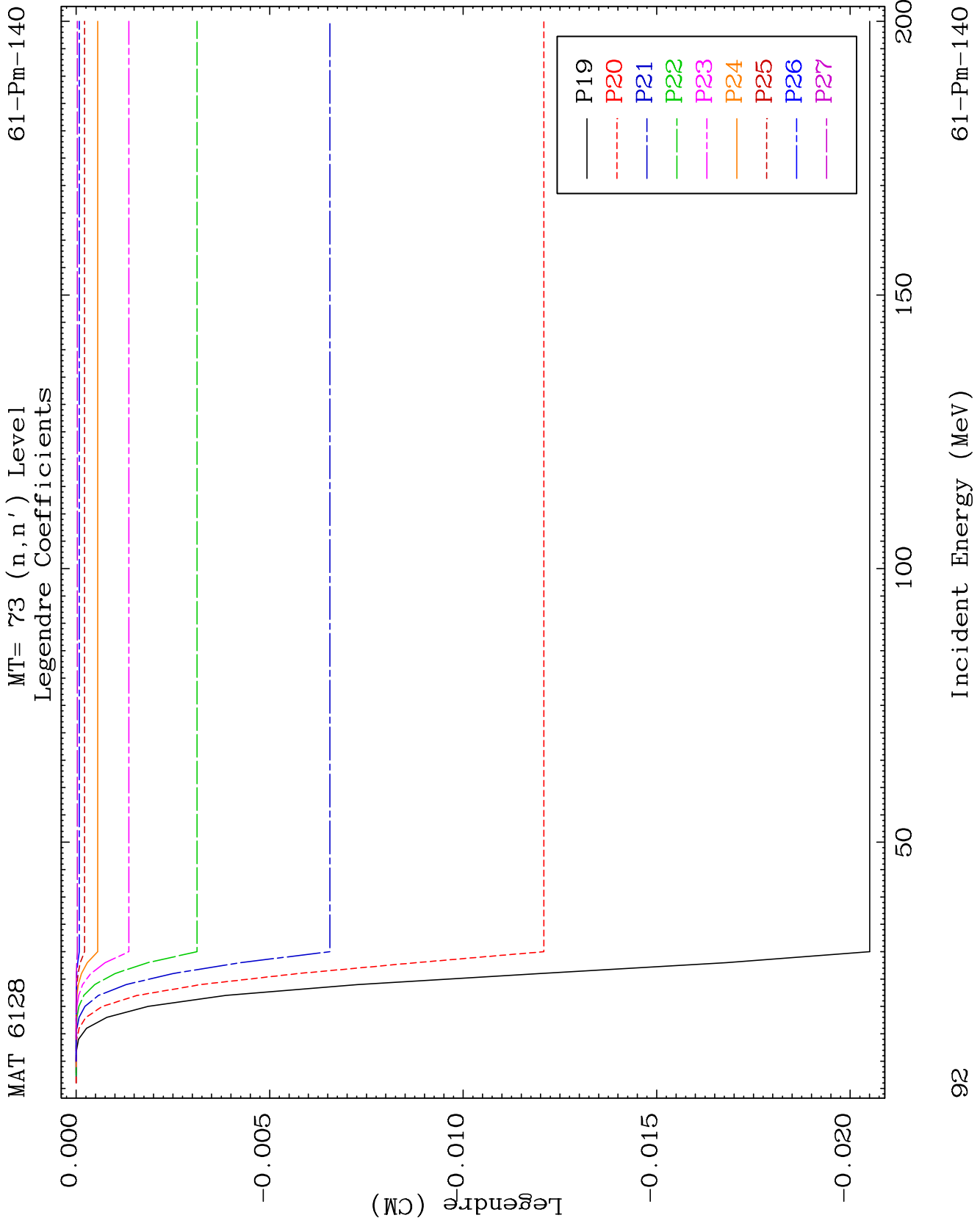
61-Pm-140

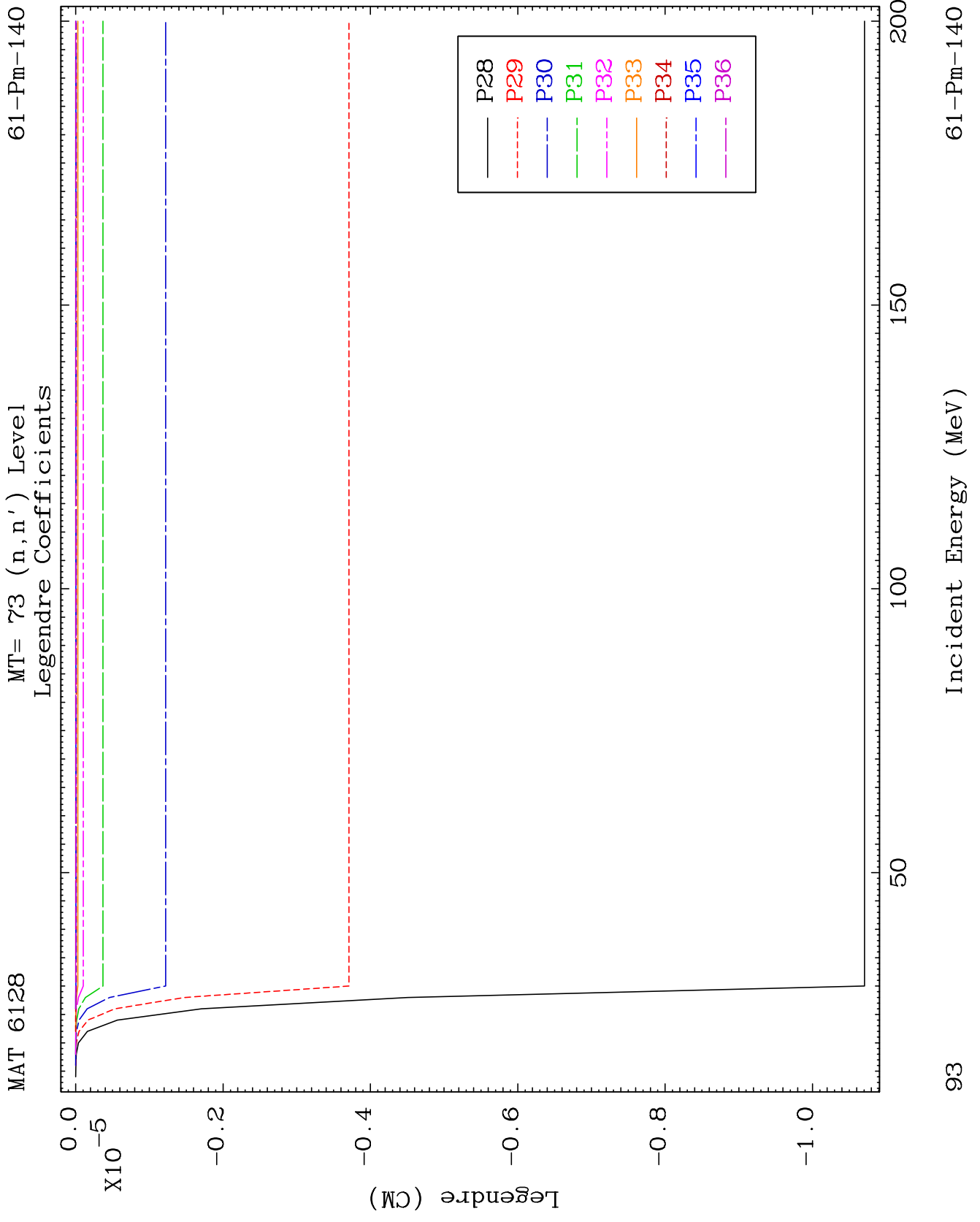


61-Pm-140

Incident Energy (MeV)

91



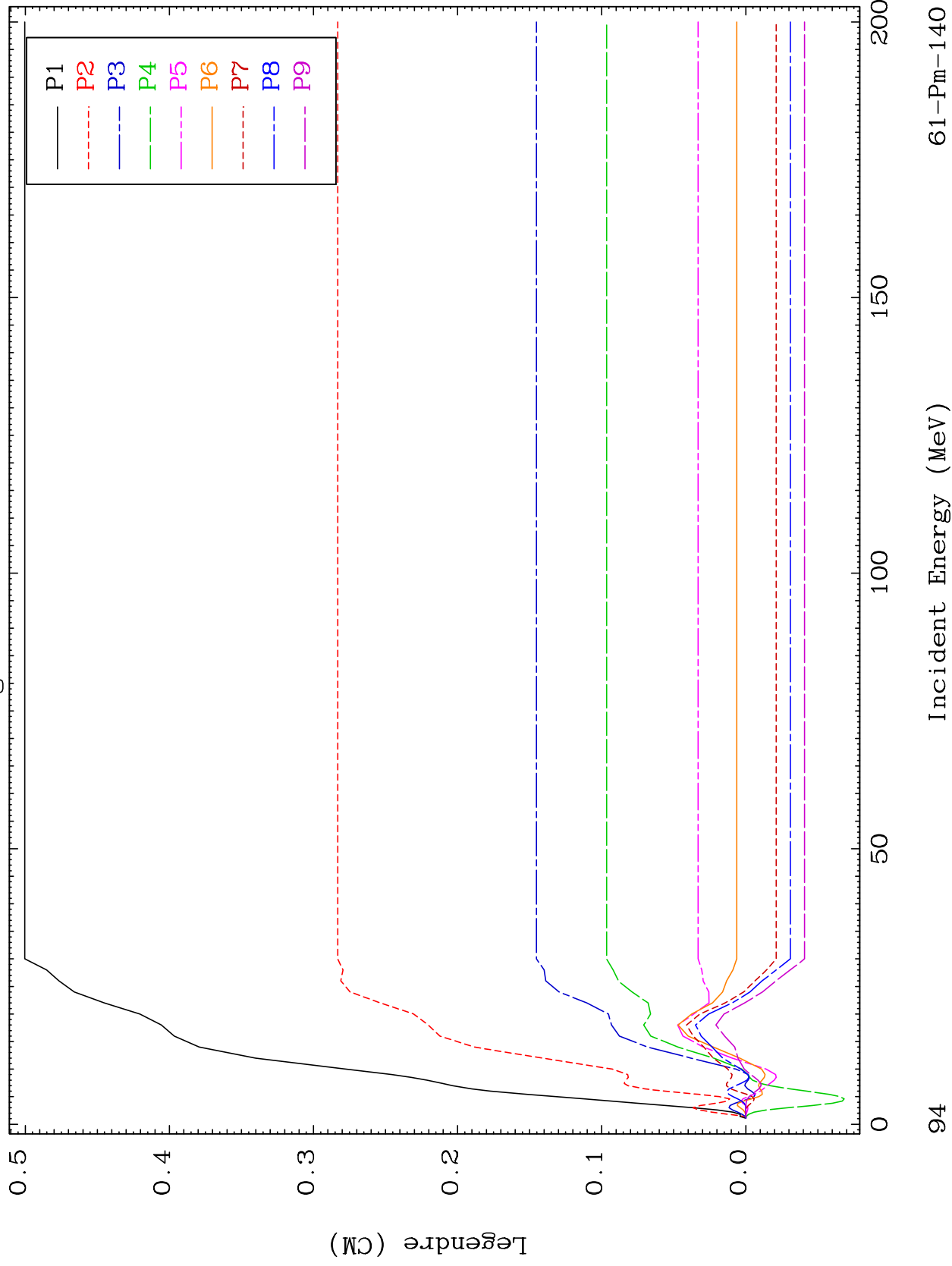


MAT 6128

MT= 74 (n,n') Level

61-Pm-140

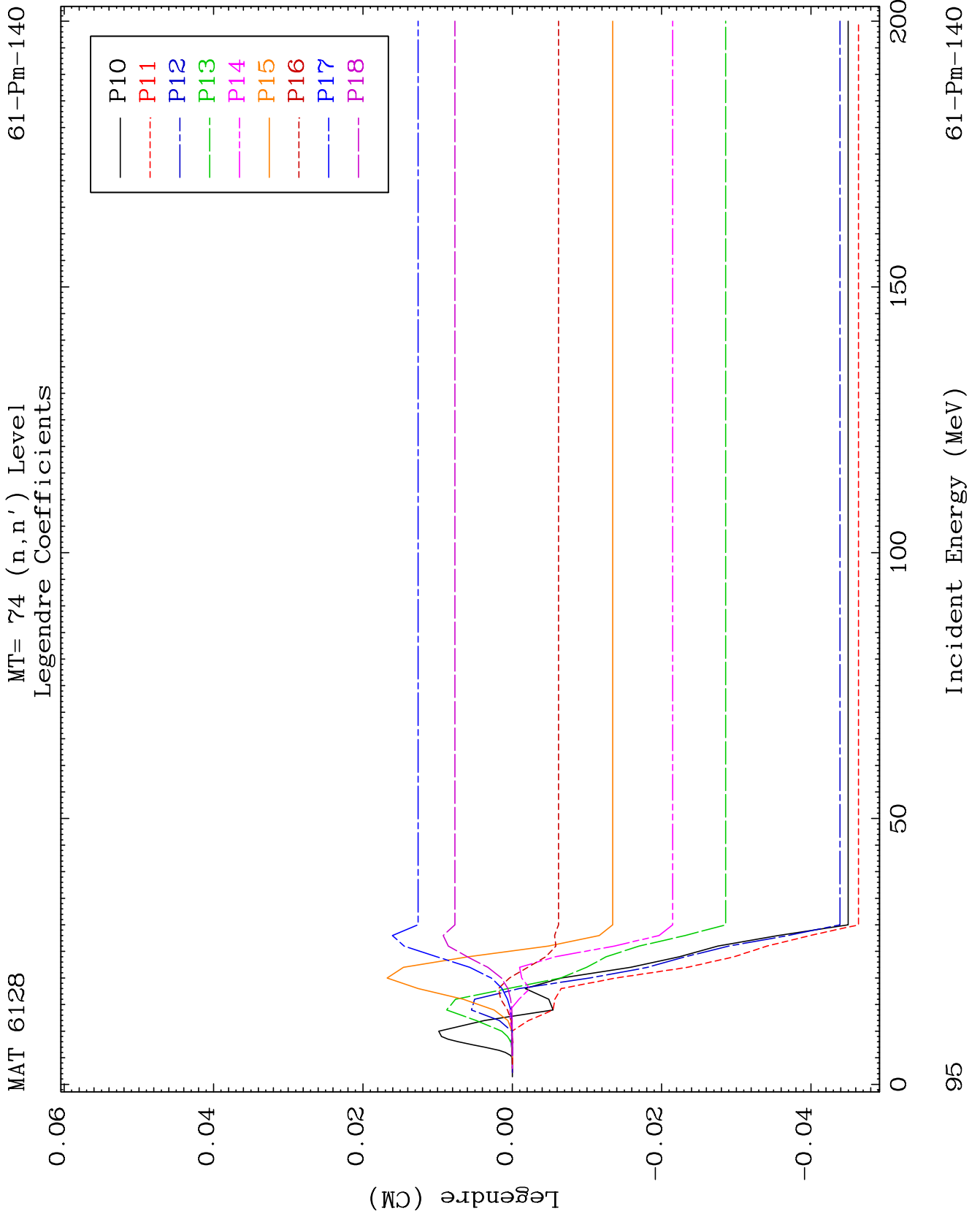
Legendre Coefficients

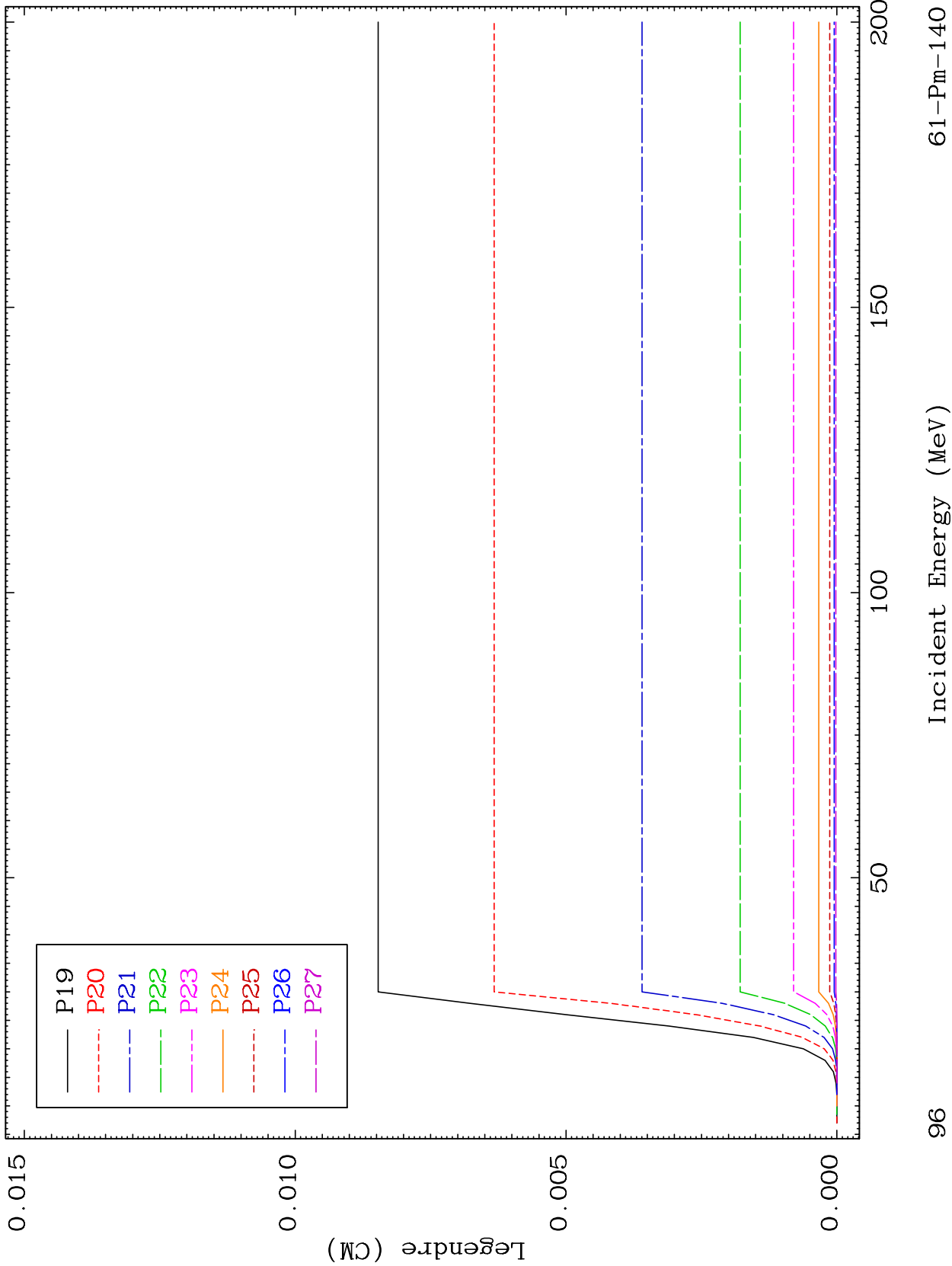


94

Incident Energy (MeV)

61-Pm-140

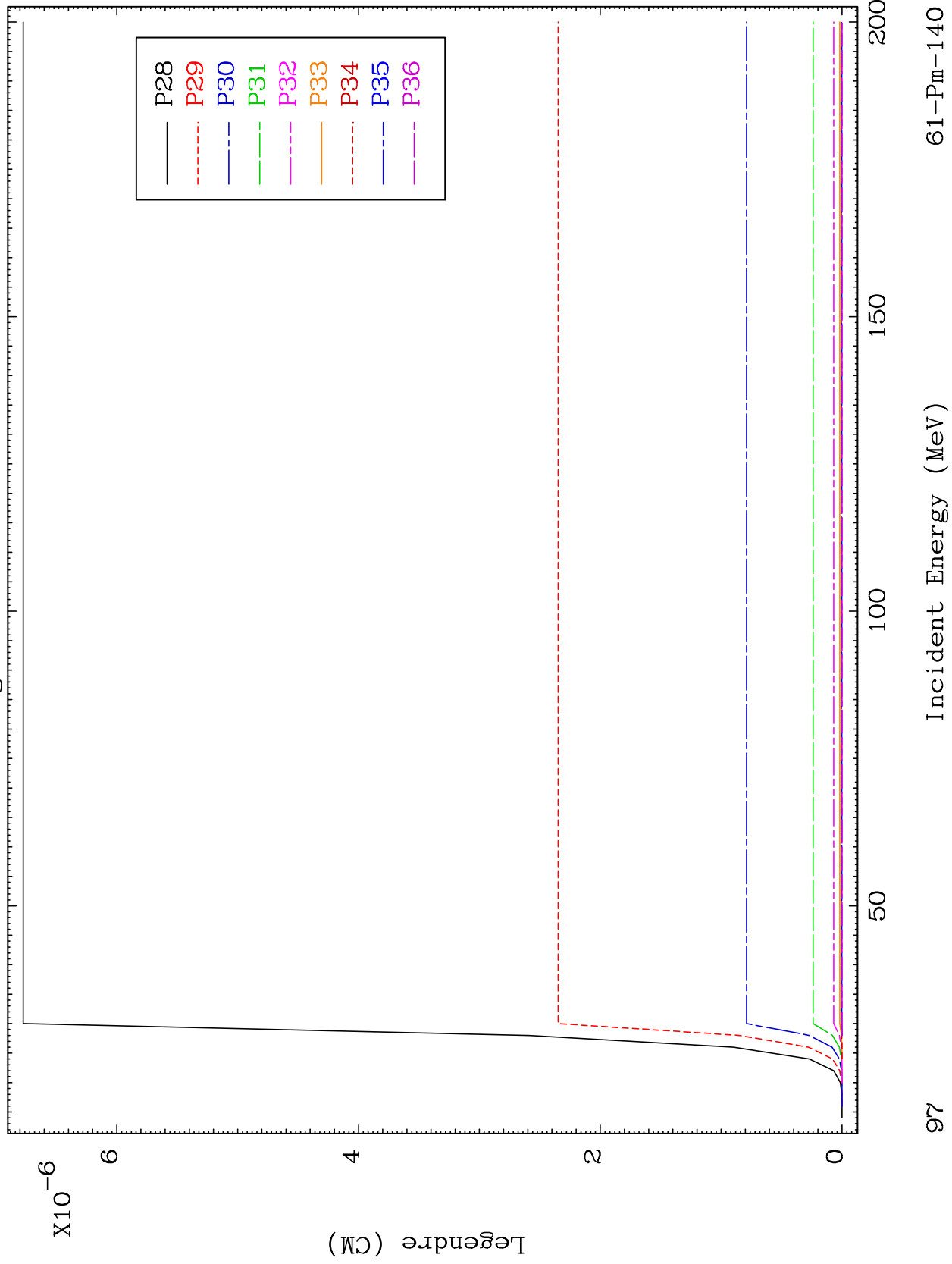




MAT 6128

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

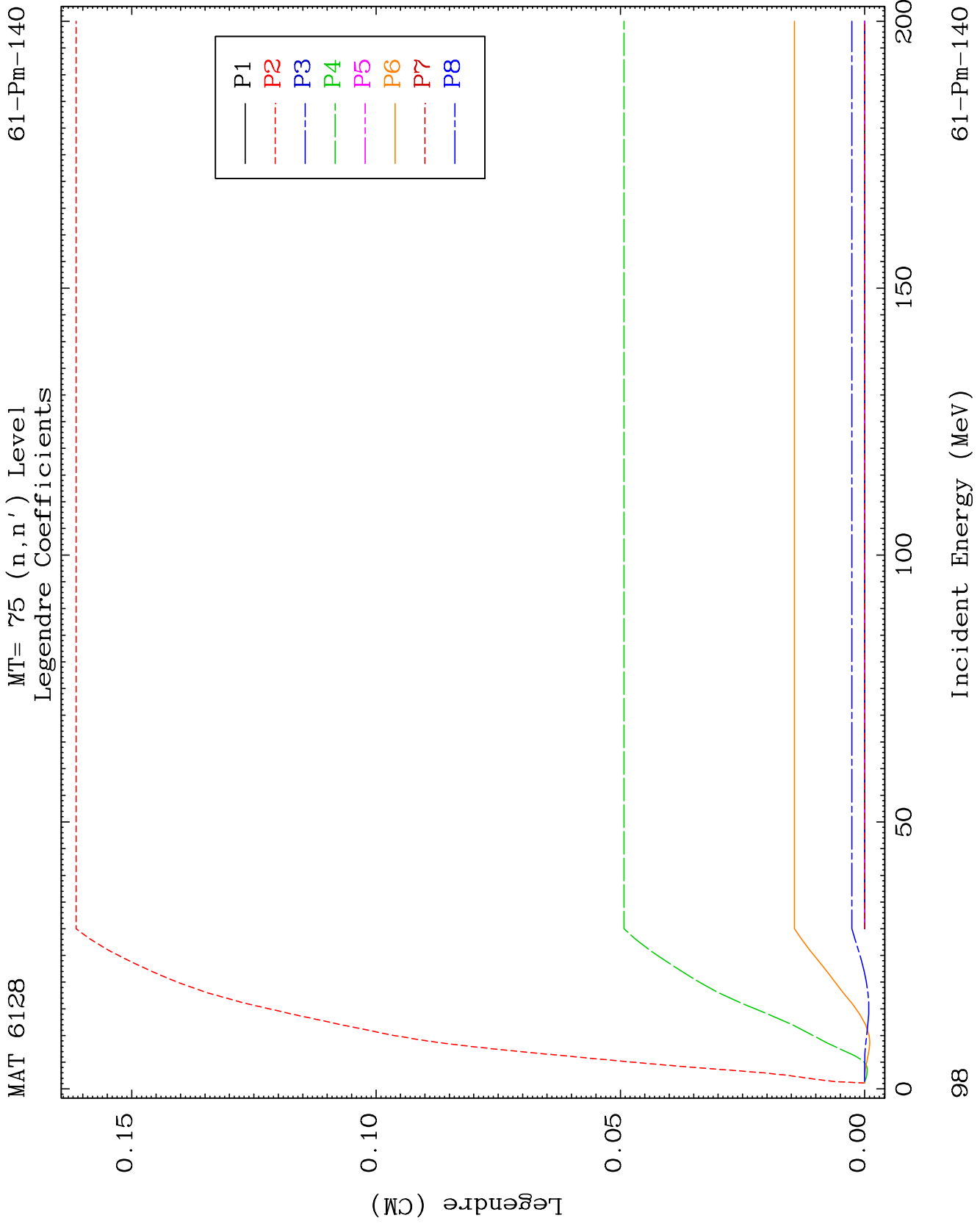
61-Pm-140

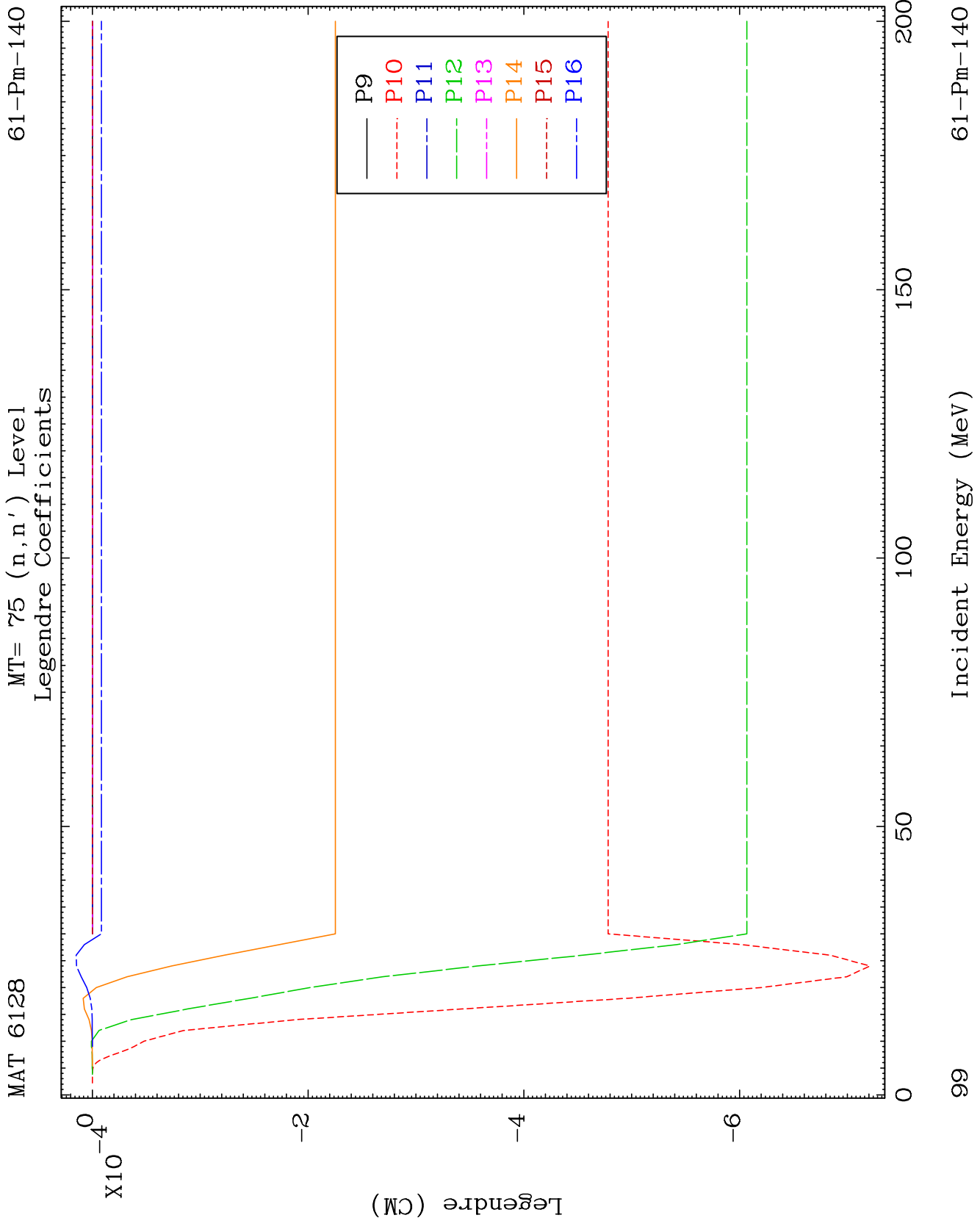


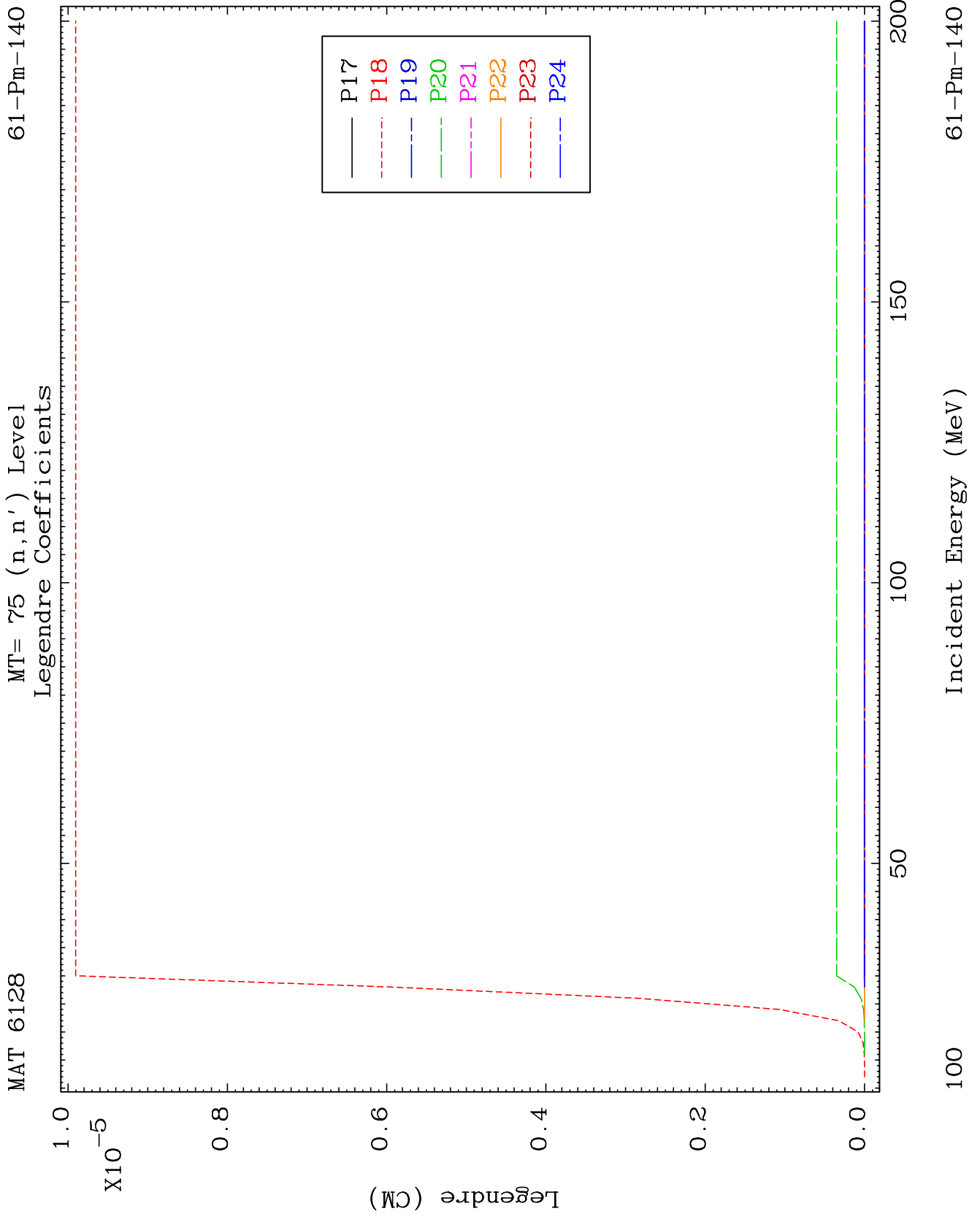
97

Incident Energy (MeV)

61-Pm-140



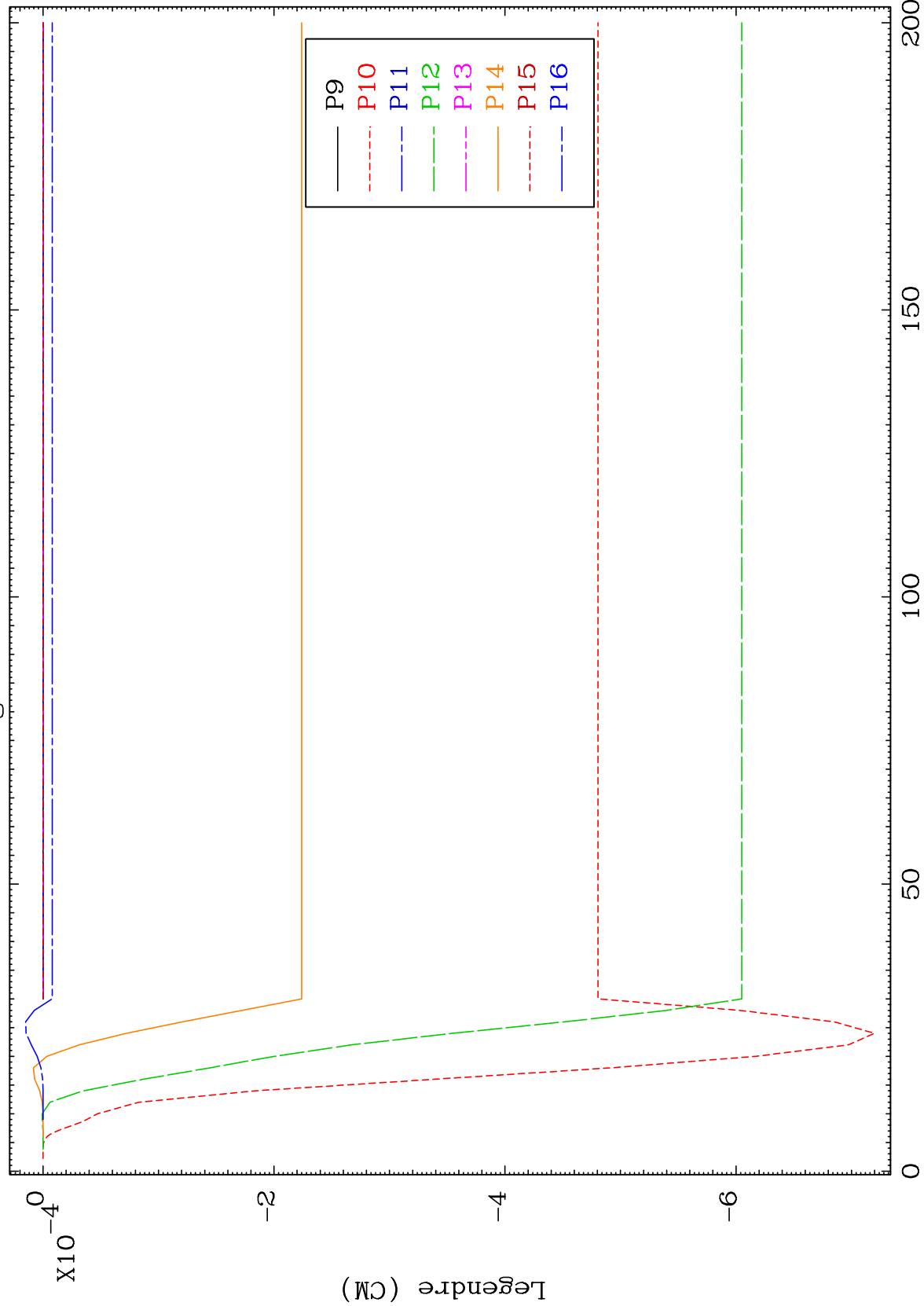




MAT 6128

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

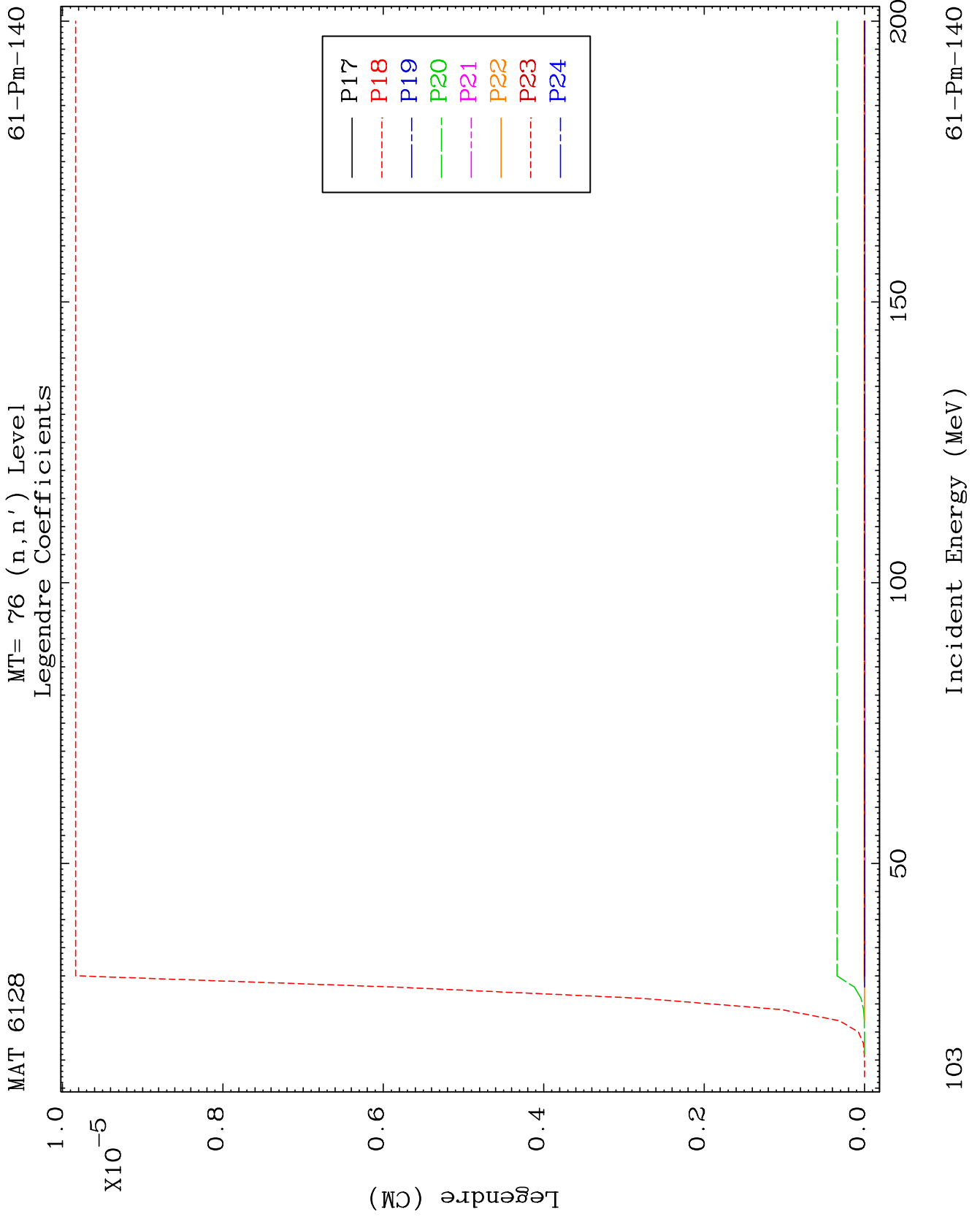
61-Pm-140



102

Incident Energy (MeV)

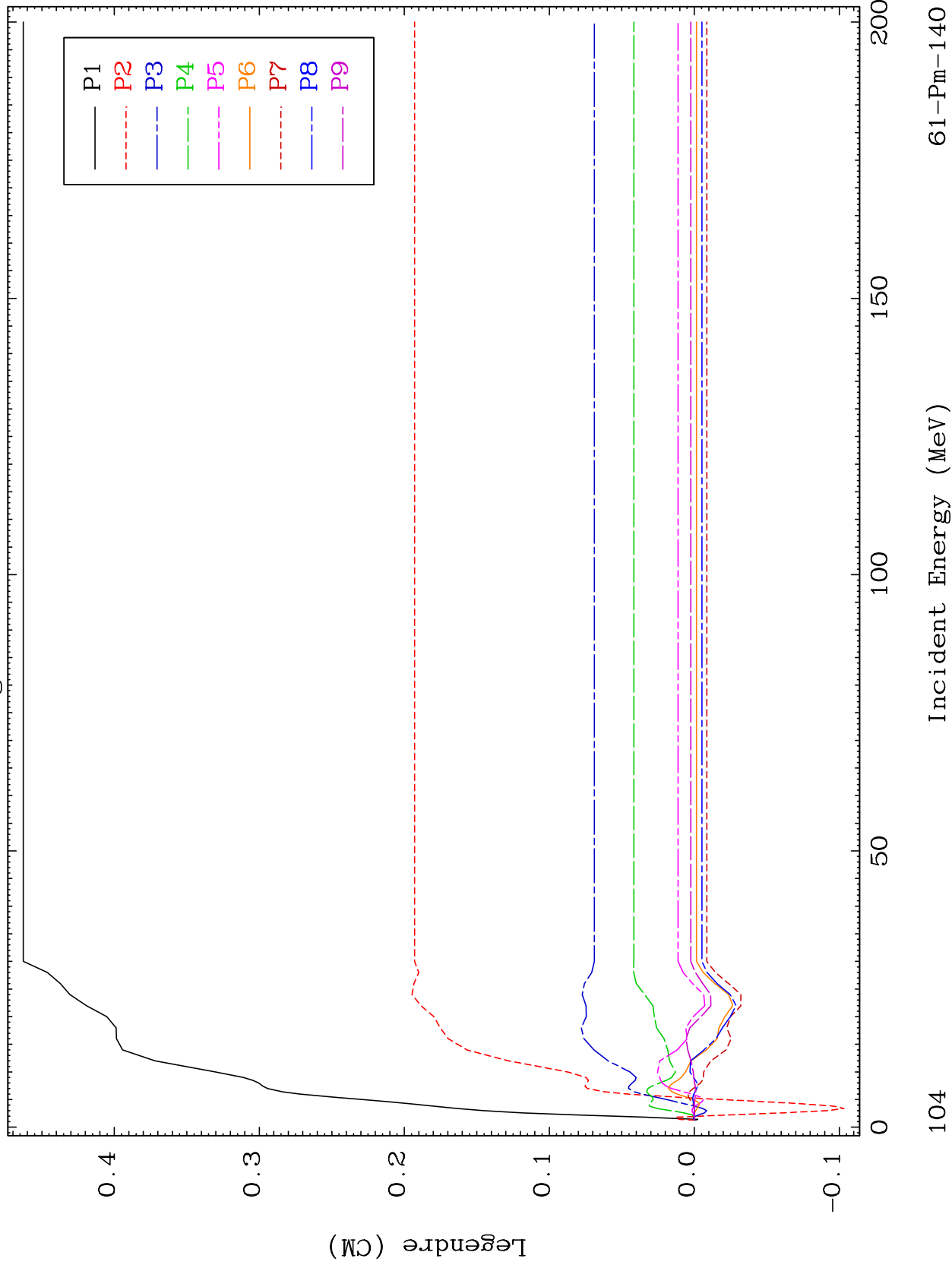
61-Pm-140



MAT 6128

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

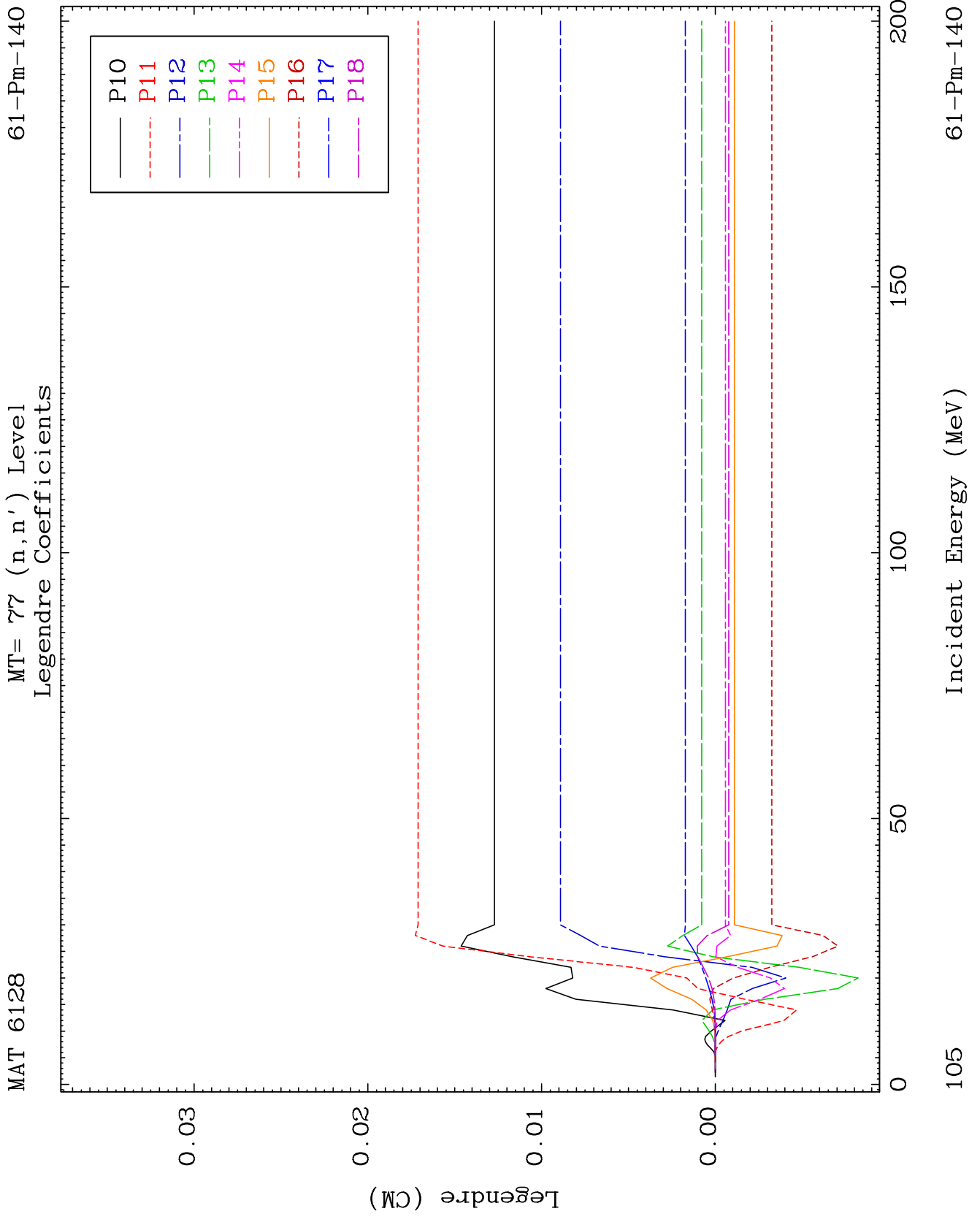
61-Pm-140



61-Pm-140

Incident Energy (MeV)

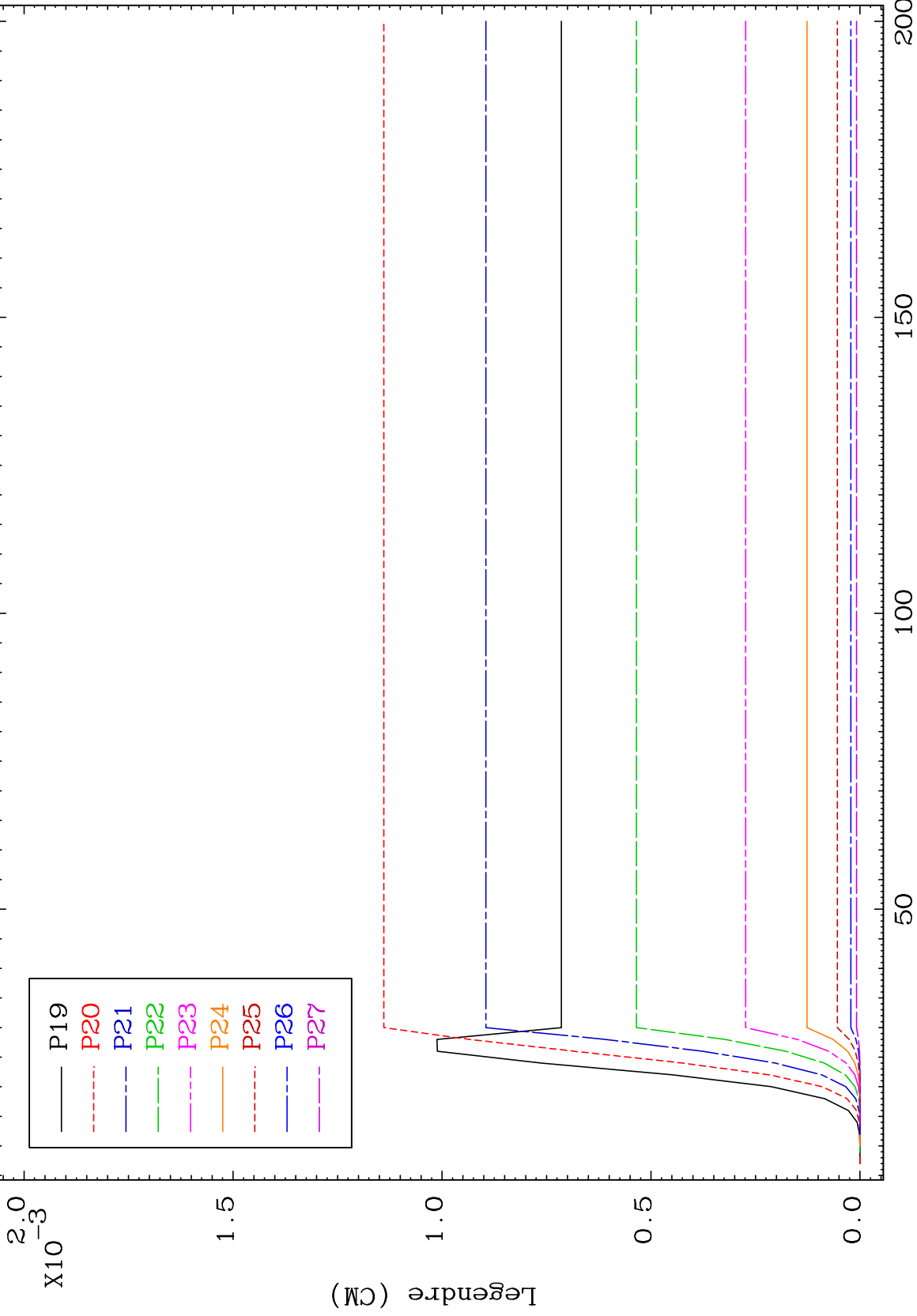
104



MAT 6128

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

61-Pm-140



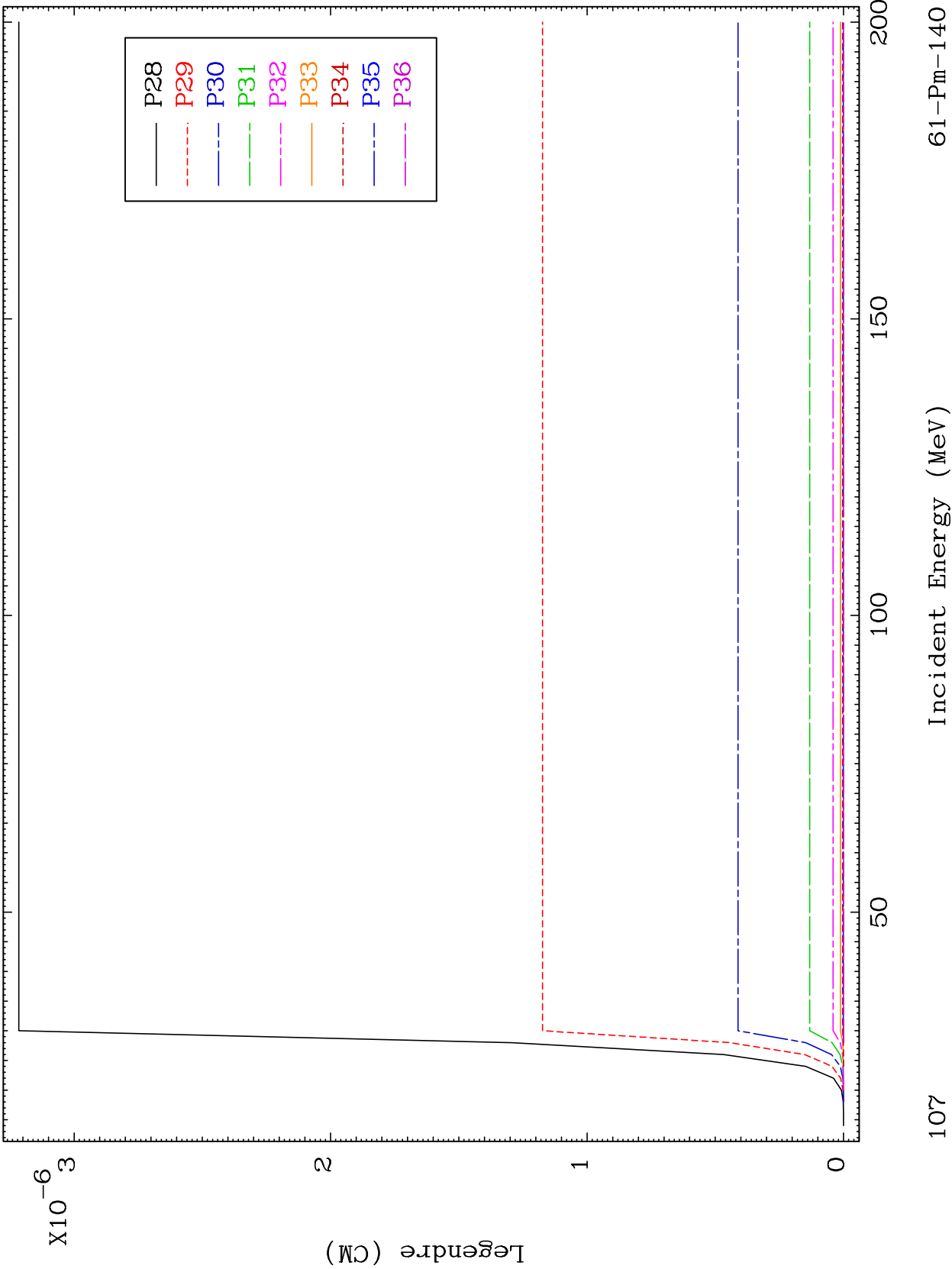
106

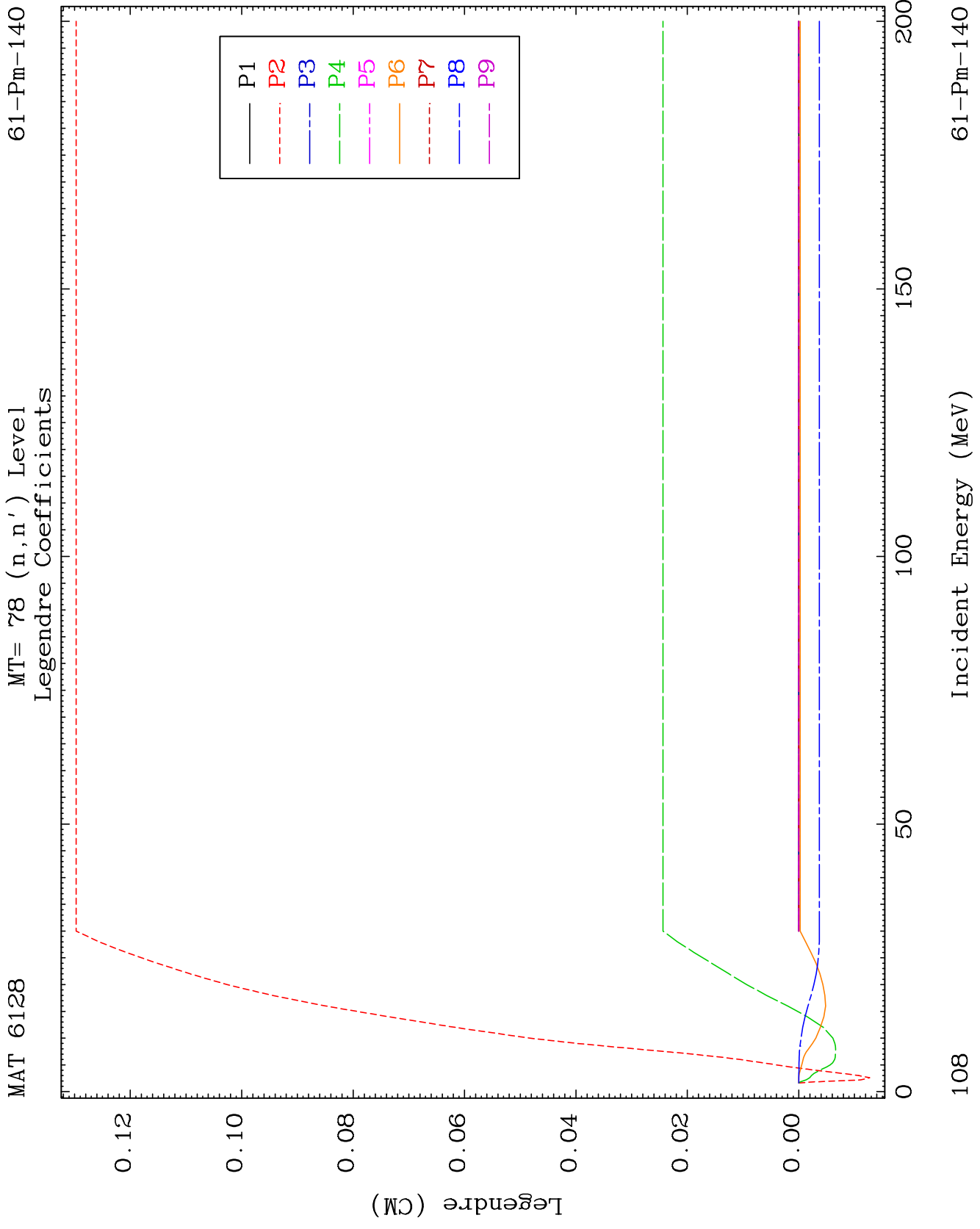
61-Pm-140

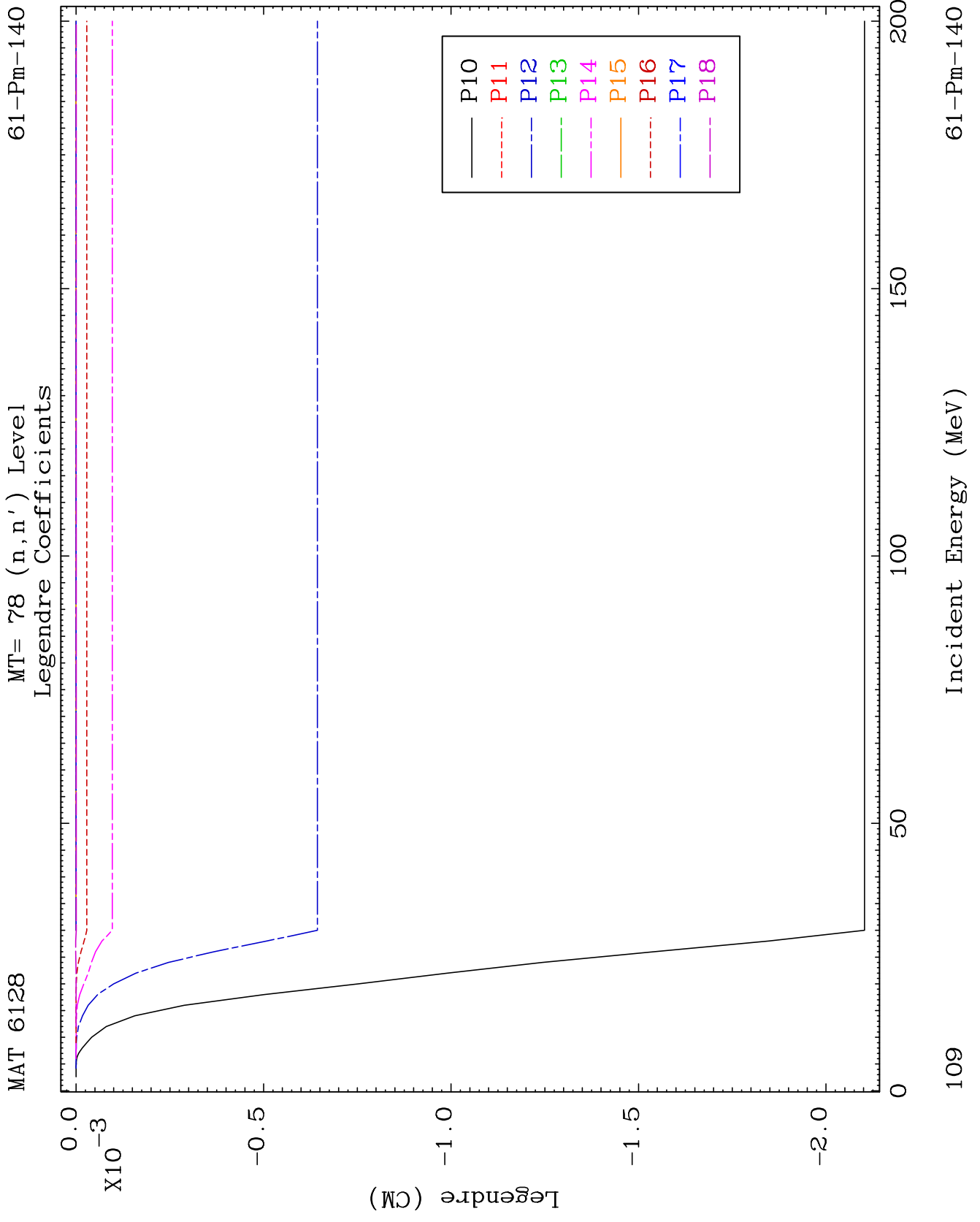
MAT 6128

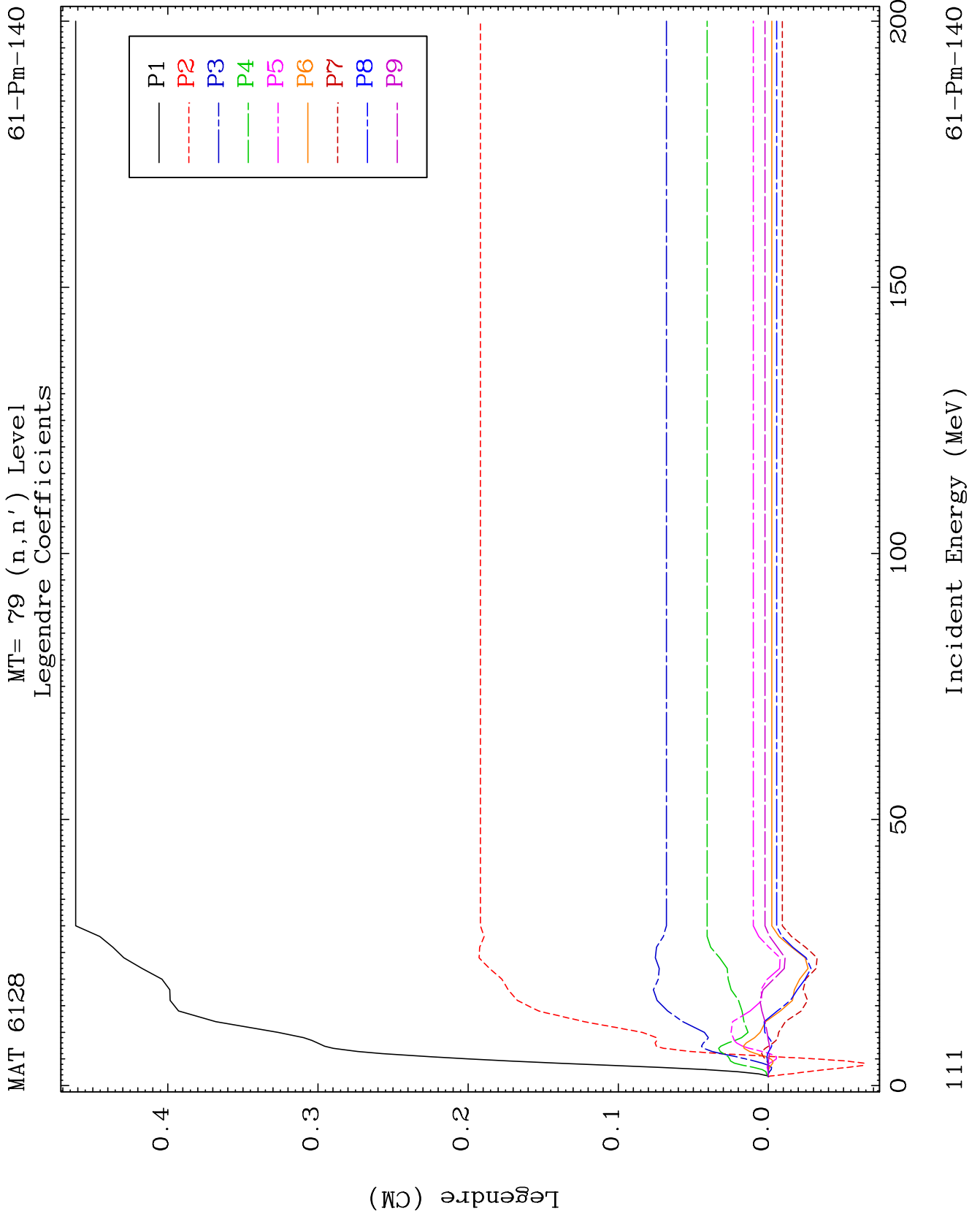
MT= 77 (n,n') Level
Legendre Coefficients

61-Pm-140





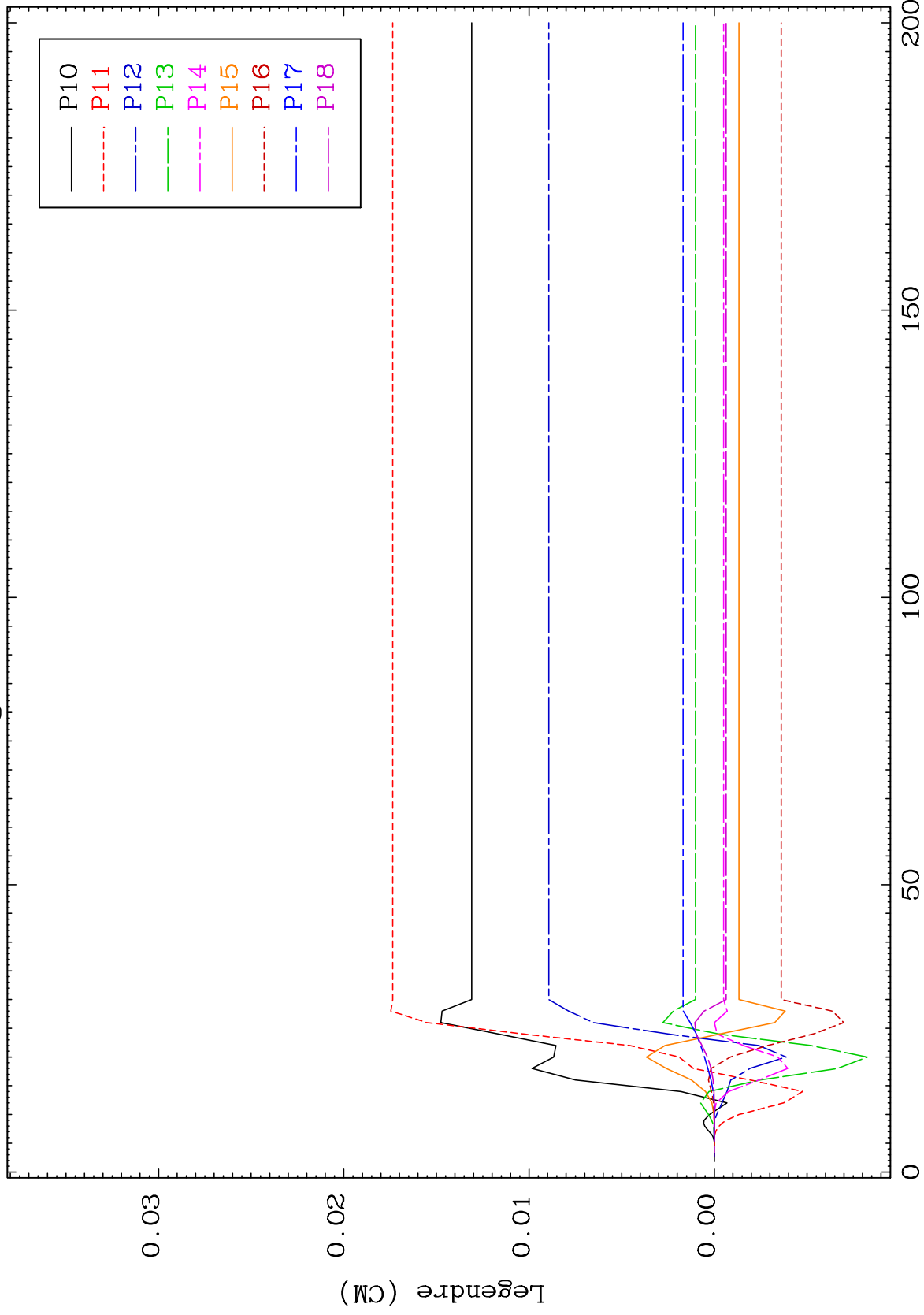




MAT 6128

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

61-Pm-140



112

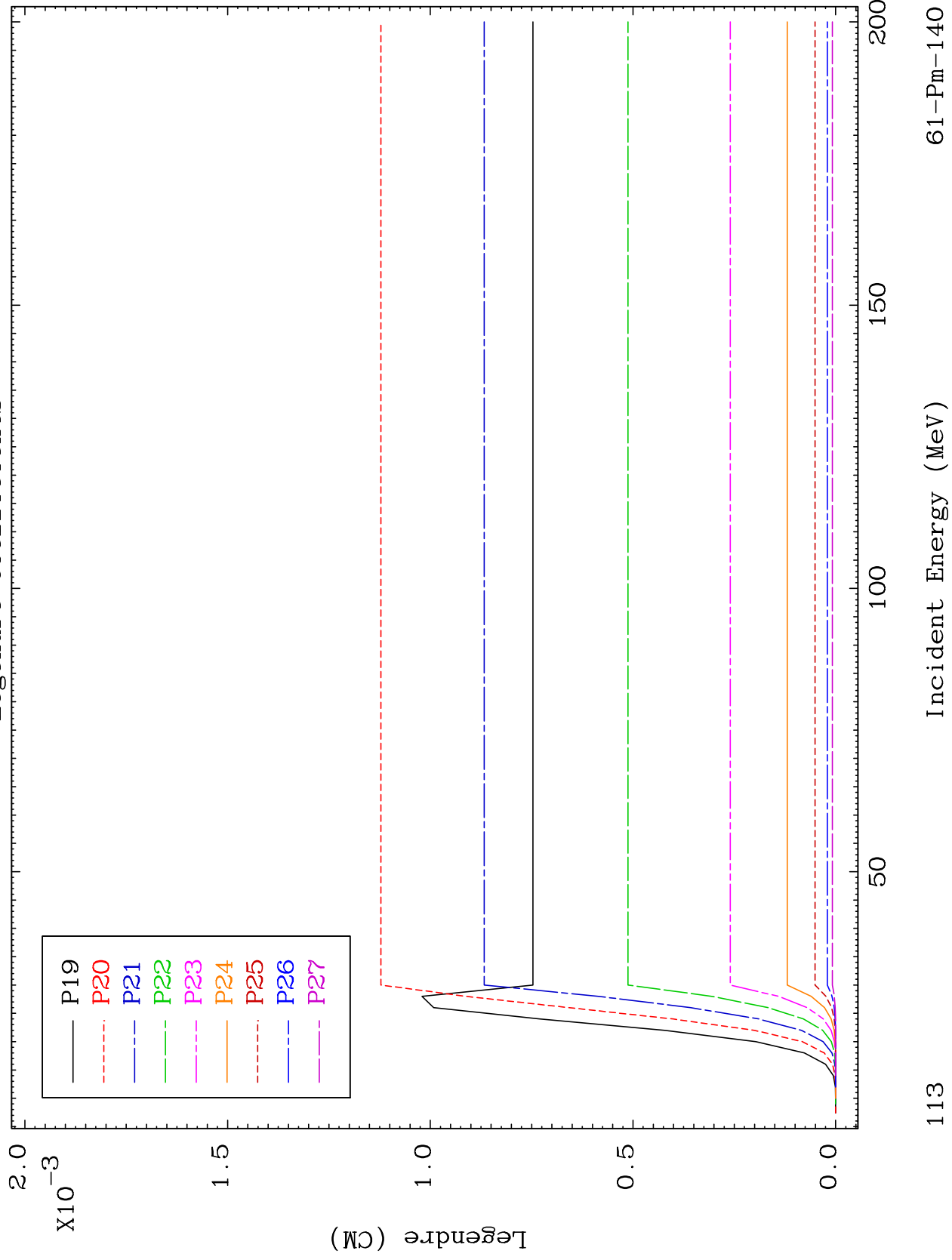
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



113

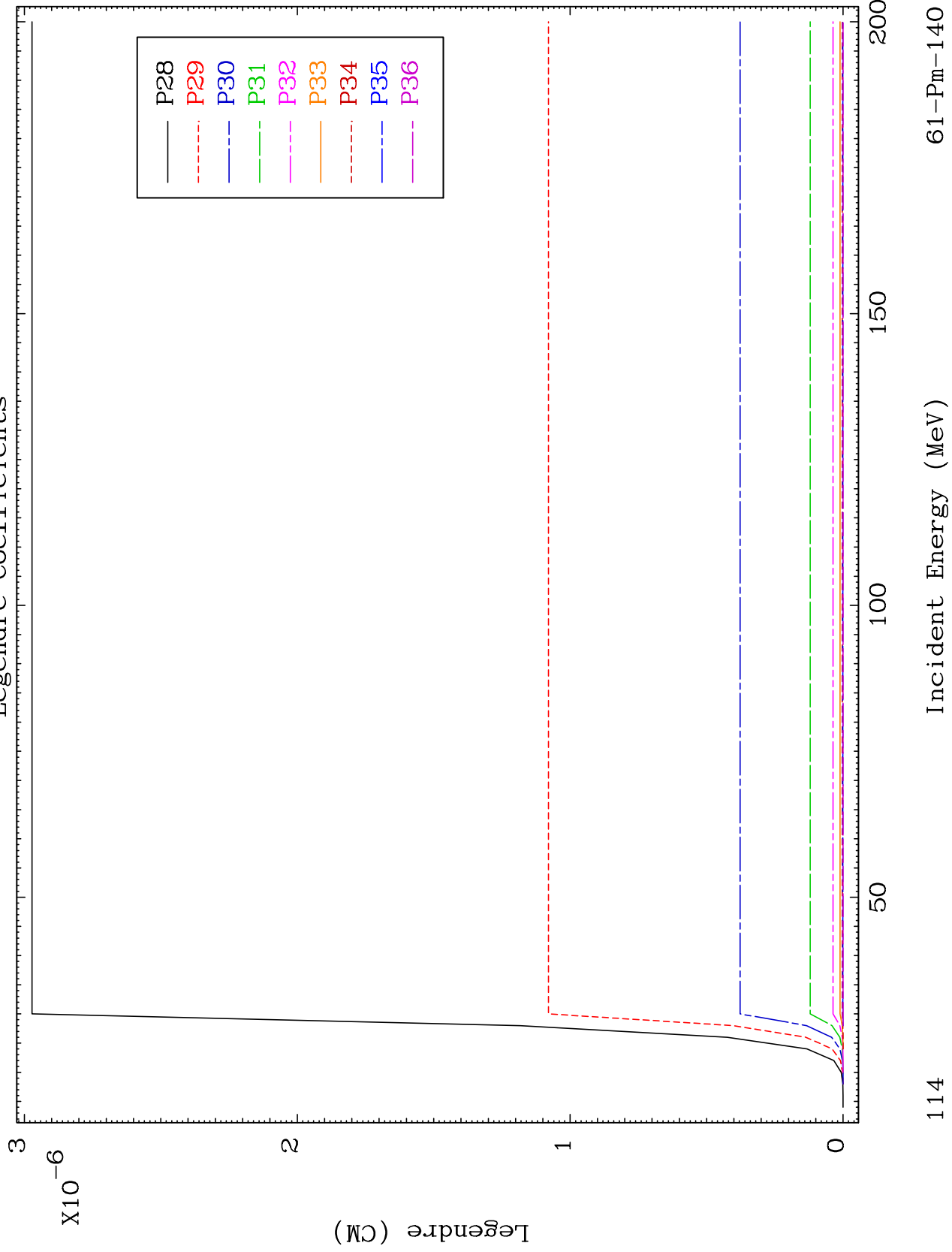
Incident Energy (MeV)

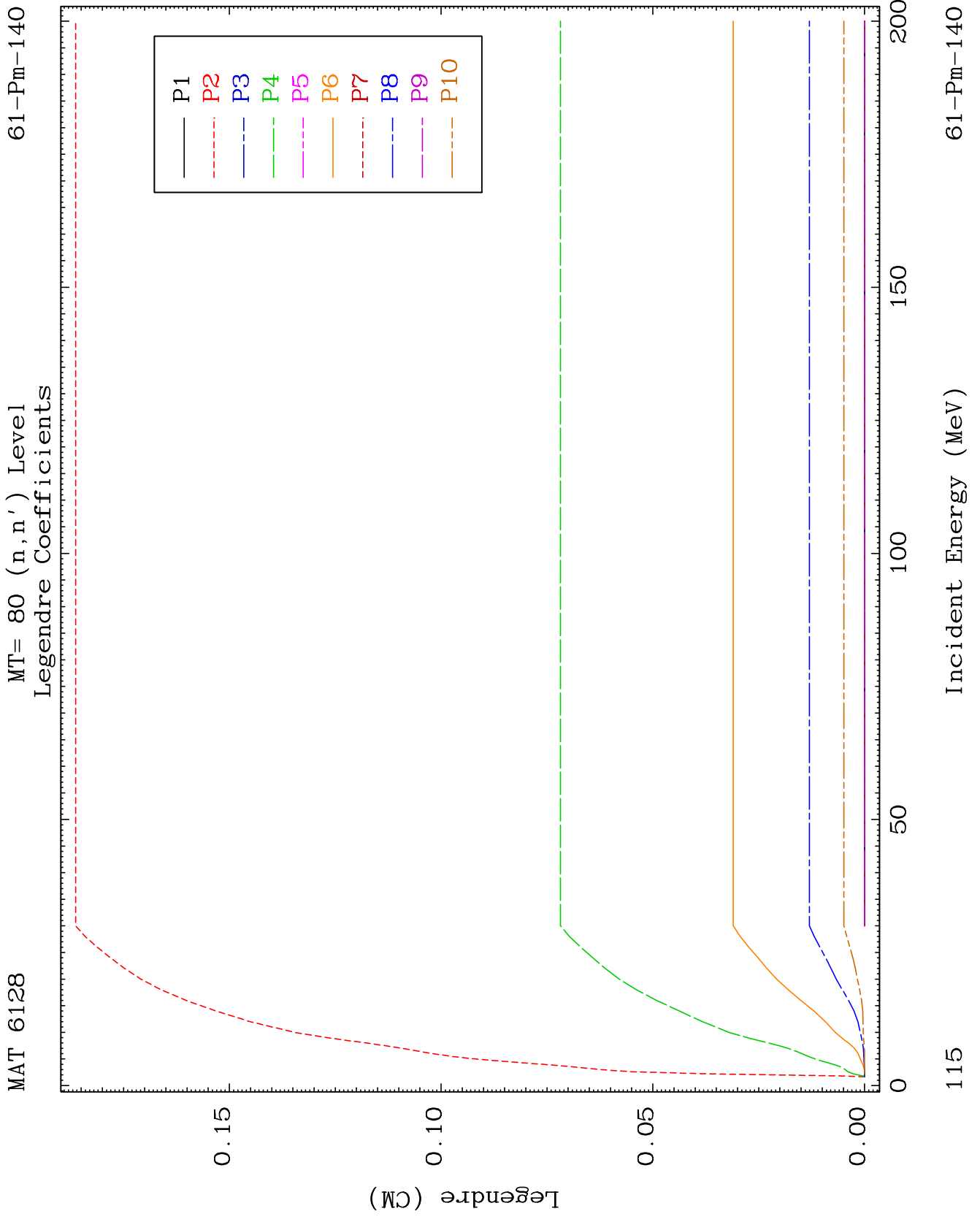
61-Pm-140

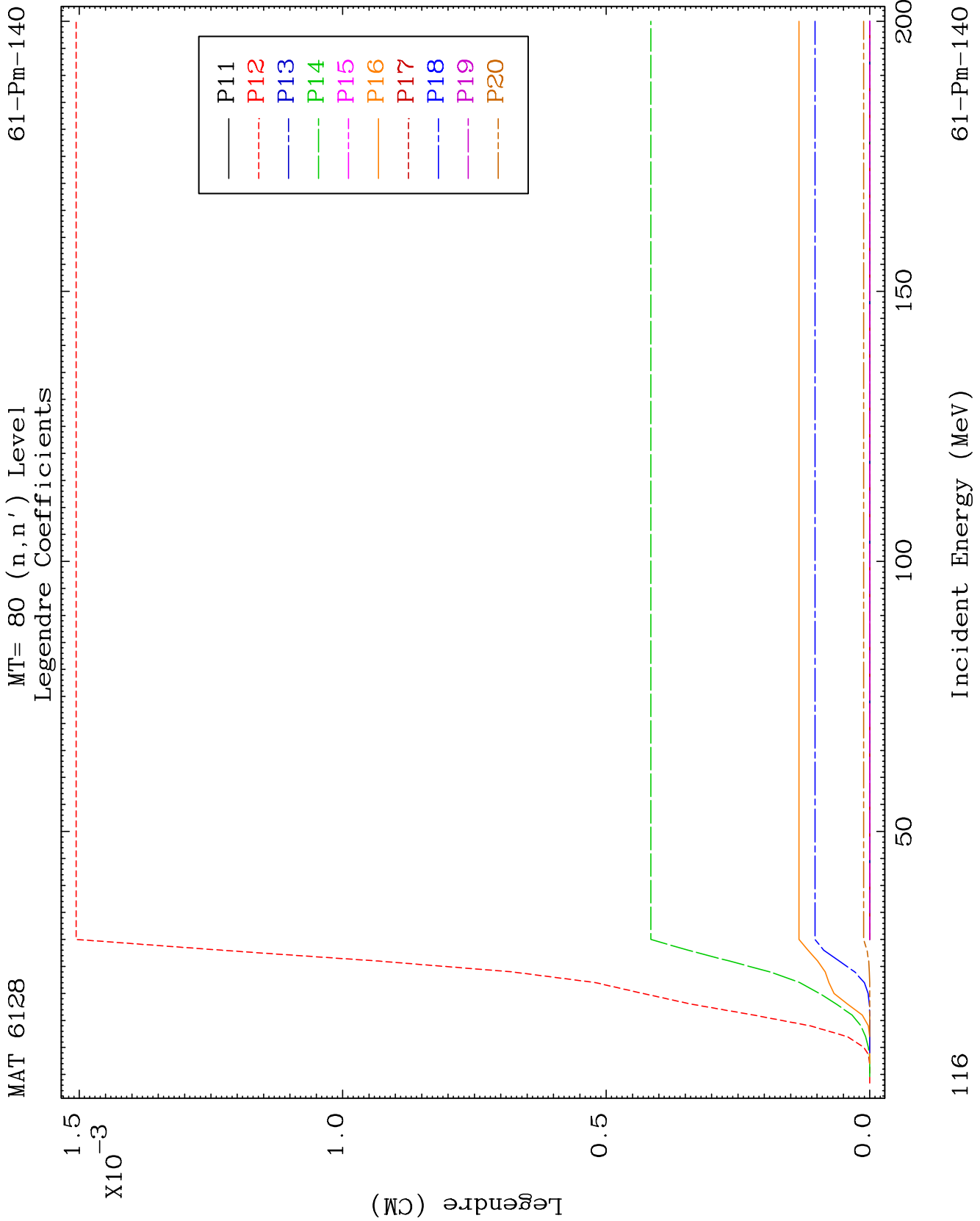
MAT 6128

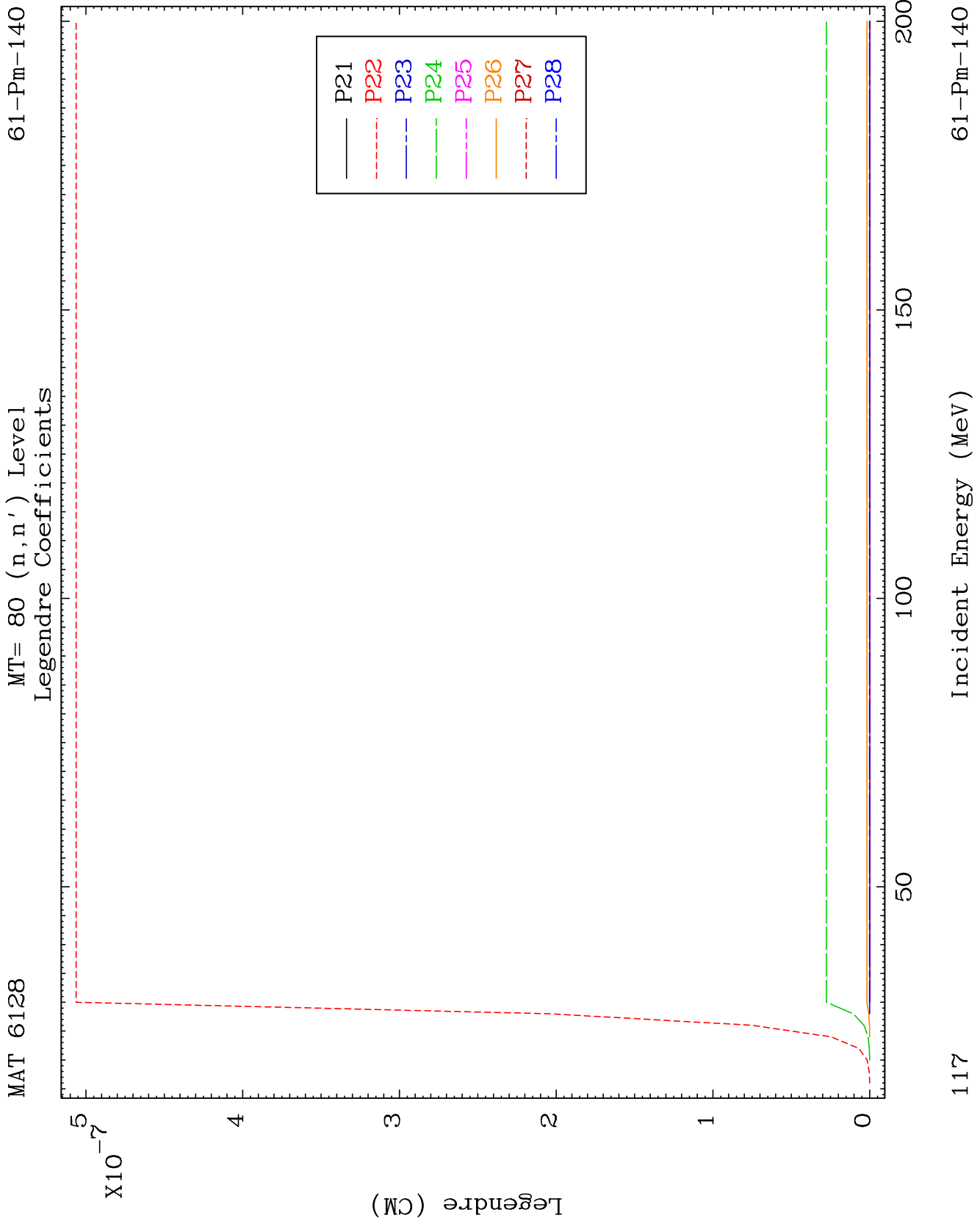
MT= 79 (n,n') Level
Legendre Coefficients

61-Pm-140





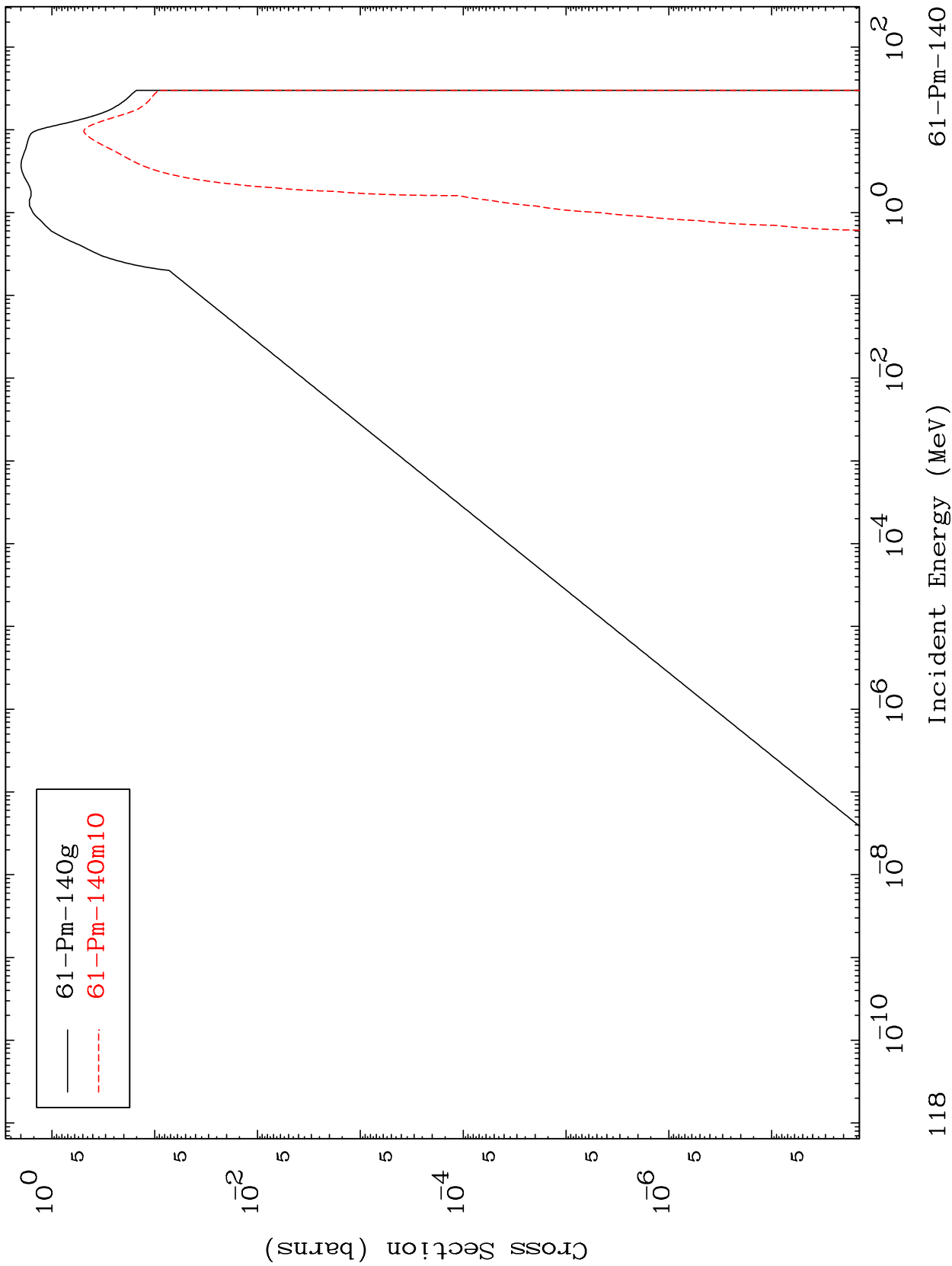




MAT 6128

61-Pm-140

Inelastic
Radionuclide Production Cross Section

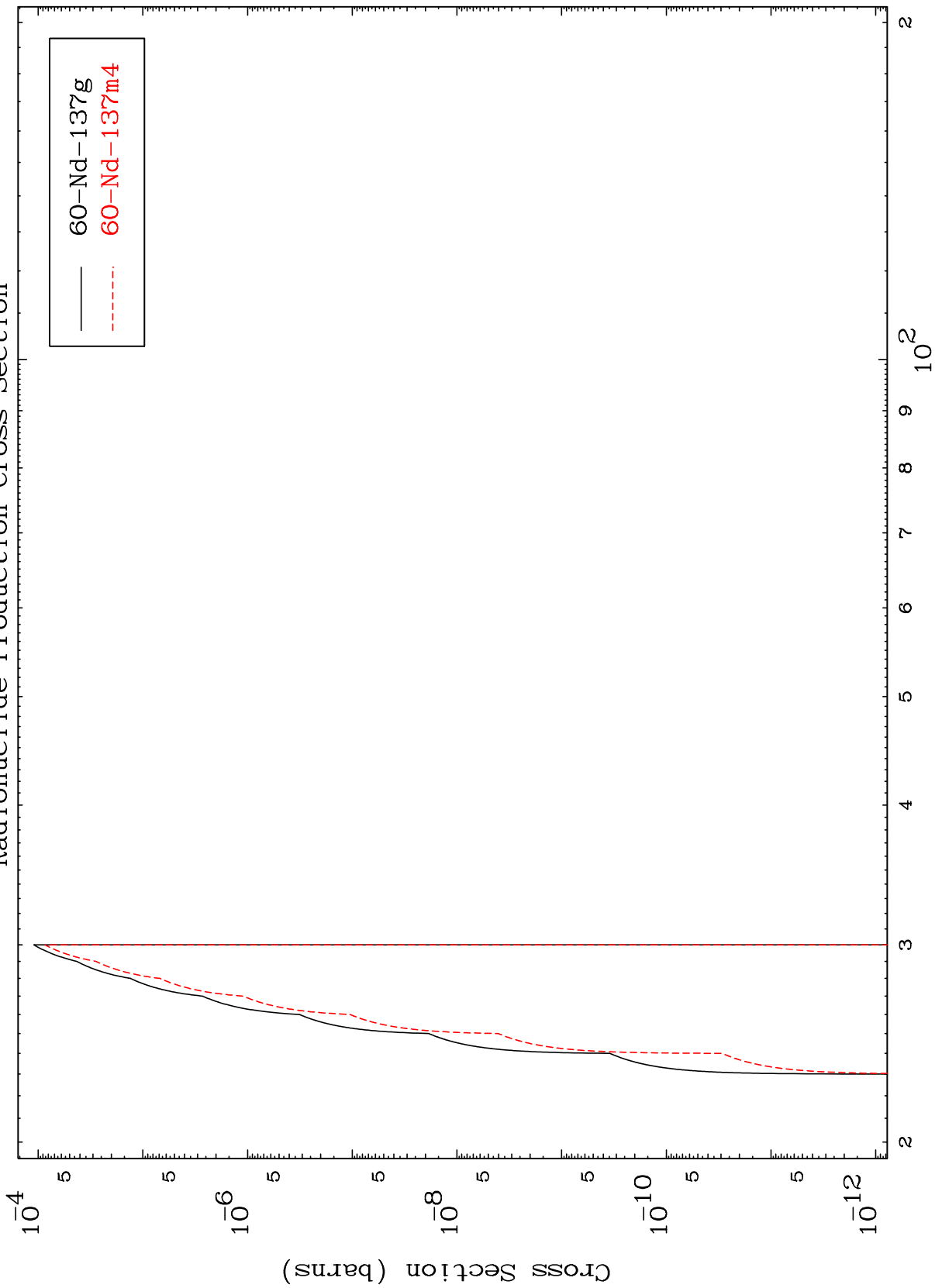


MAT 6128

(n,2n) d

61-Pm-140

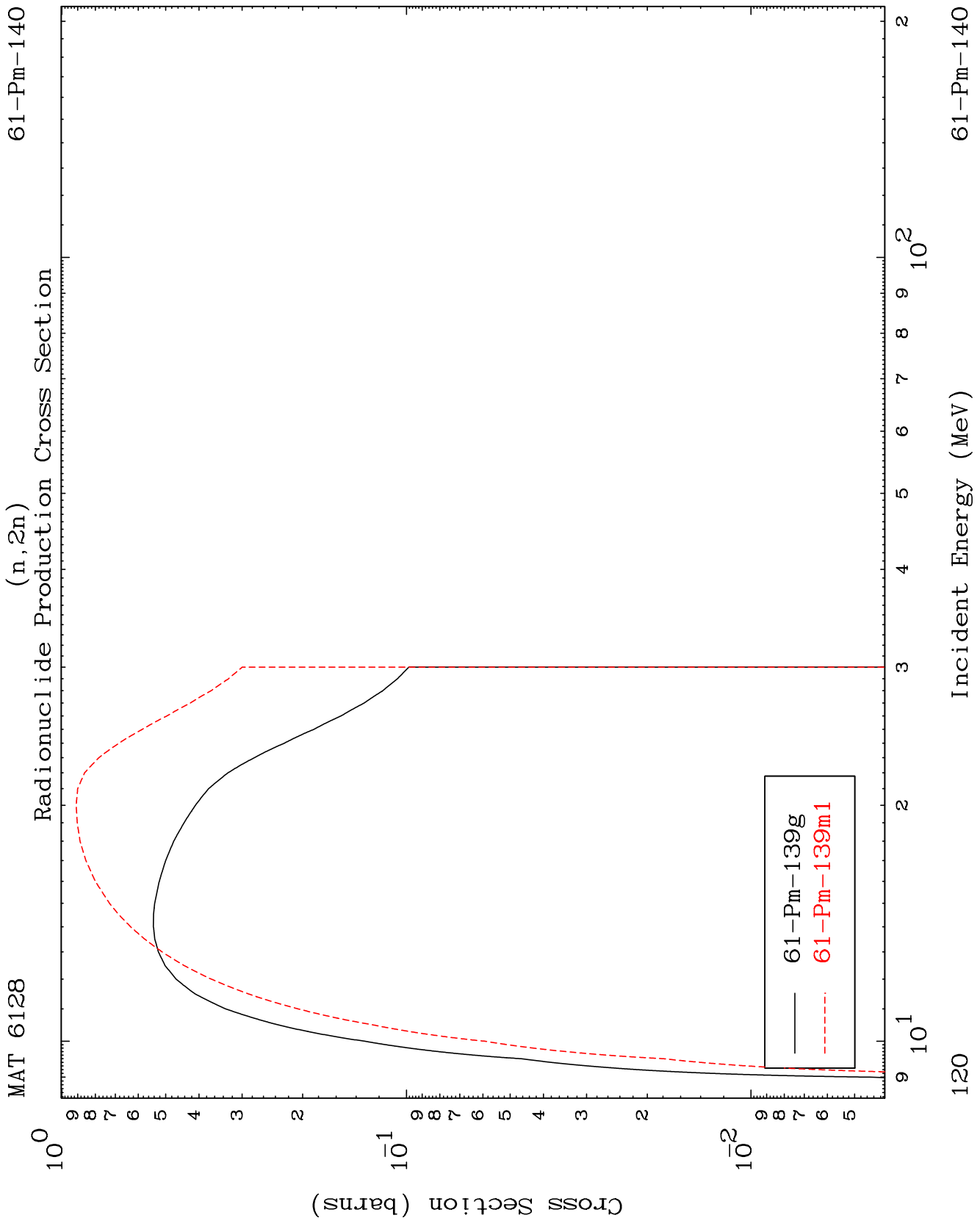
Radionuclide Production Cross Section



119

Incident Energy (MeV)

61-Pm-140

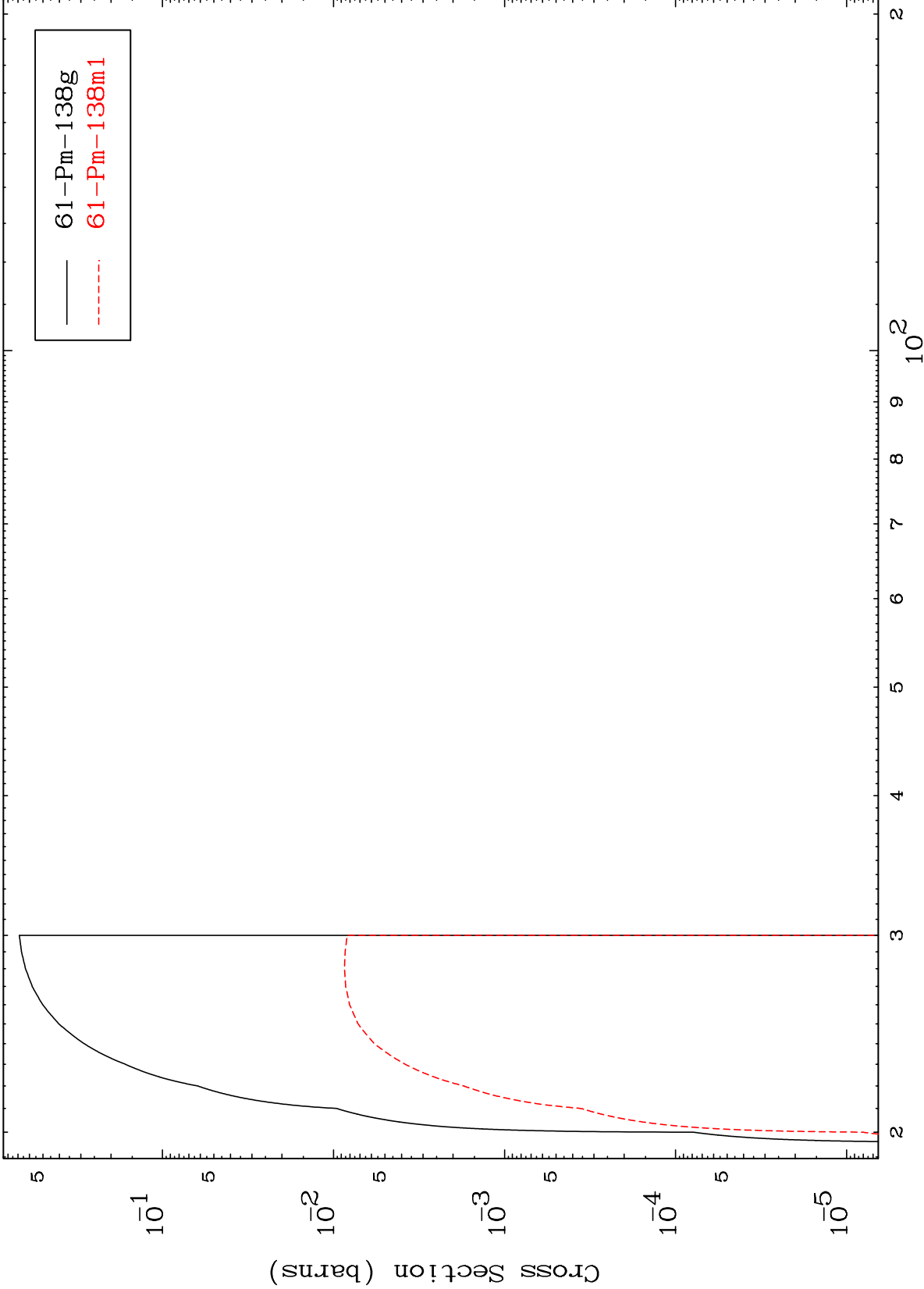


MAT 6128

(n,3n)

61-Pm-140

Radionuclide Production Cross Section



61-Pm-138g
61-Pm-138m1

121

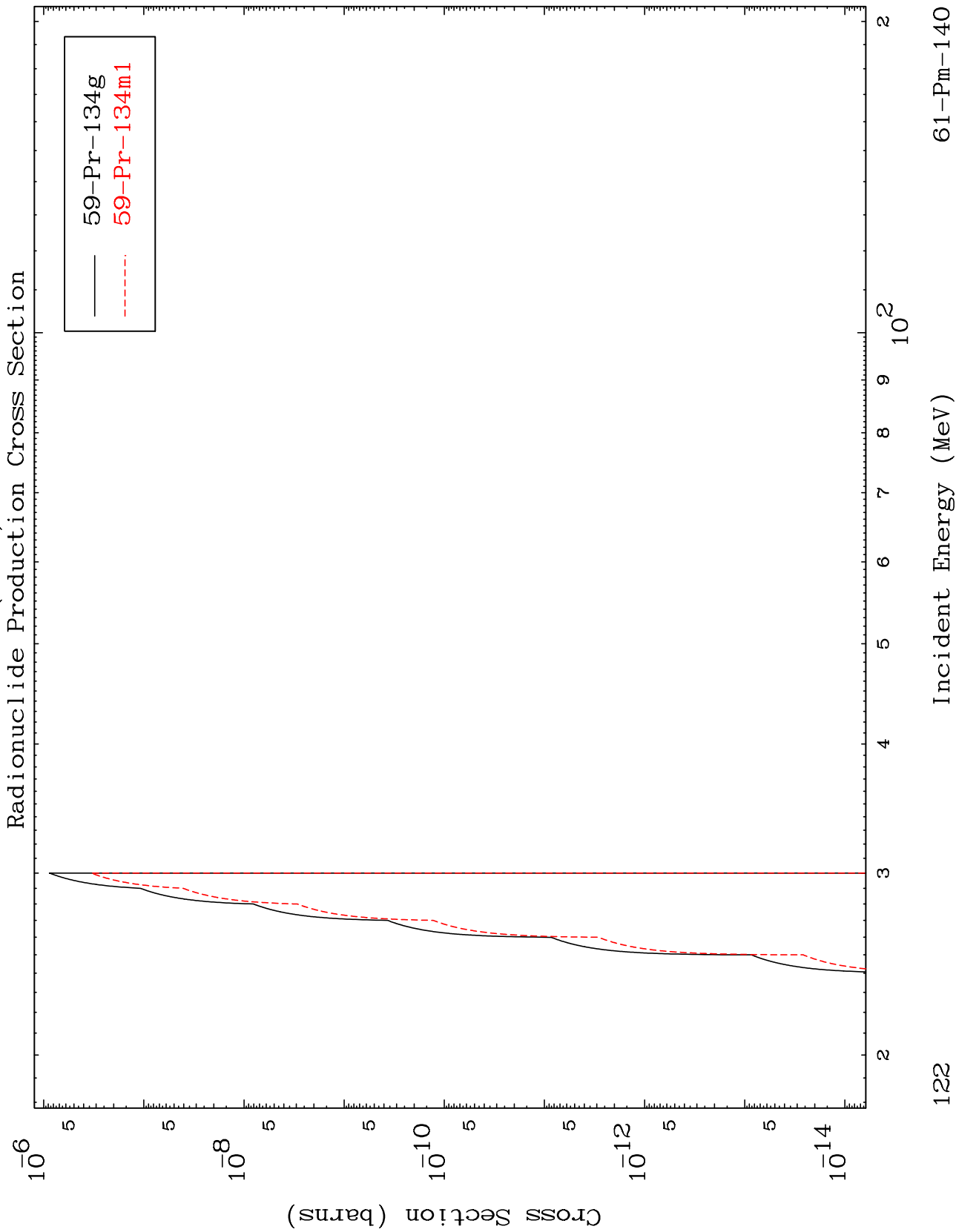
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,3n) α

61-Pm-140



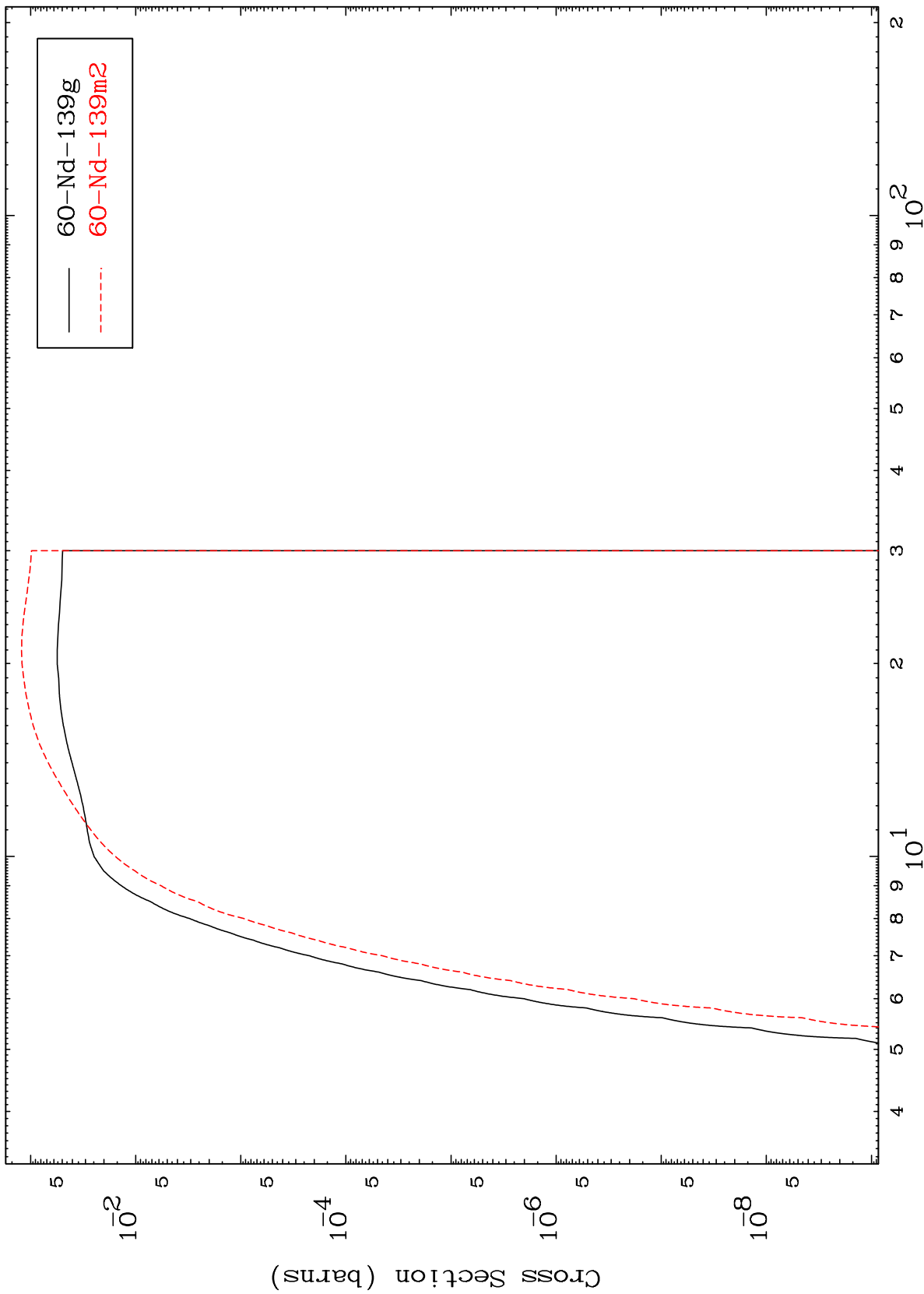
122

MAT 6128

(n,n') p

61-Pm-140

Radionuclide Production Cross Section



123

Incident Energy (MeV)

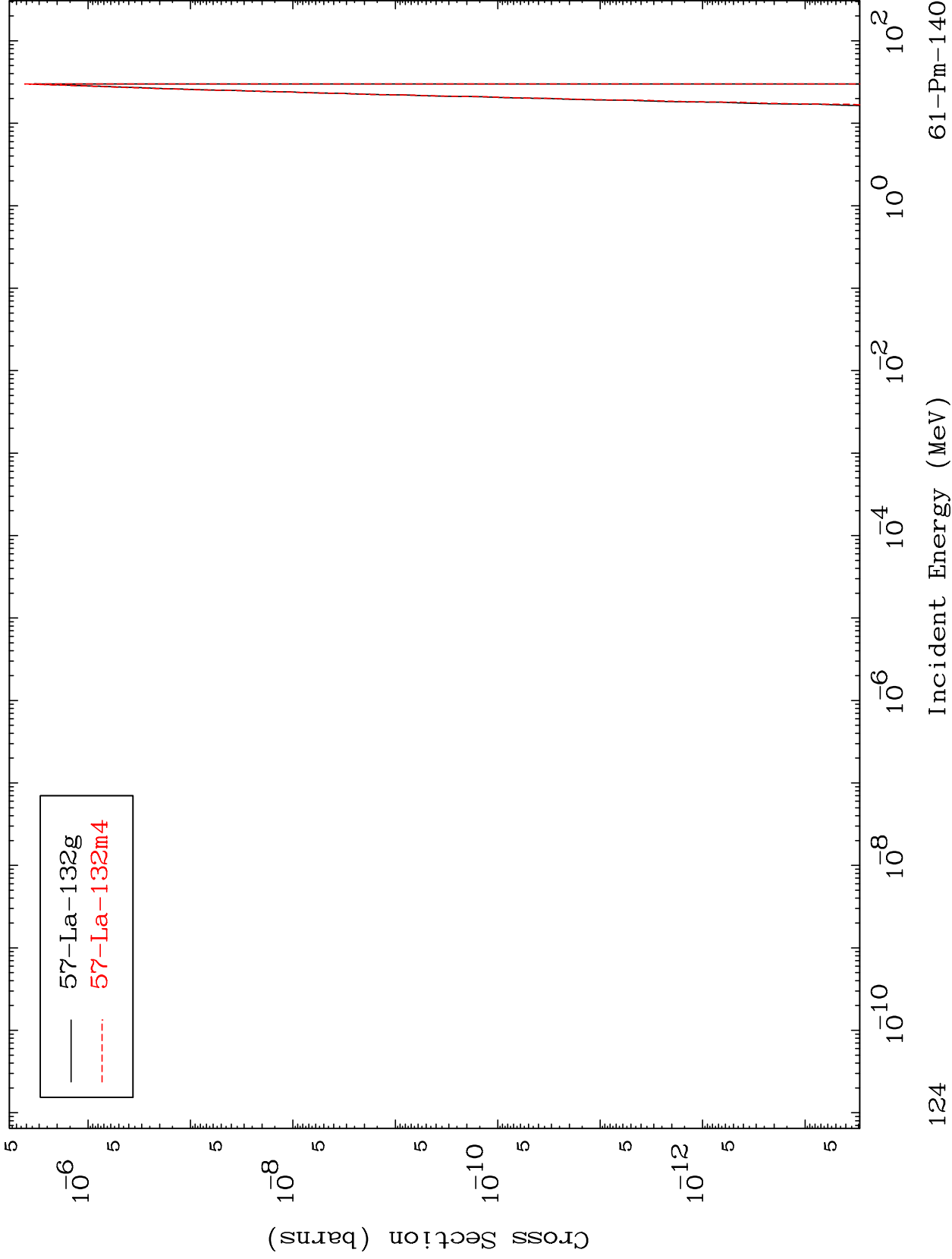
61-Pm-140

MAT 6128

(n,n') 2 α

61-Pm-140

Radionuclide Production Cross Section

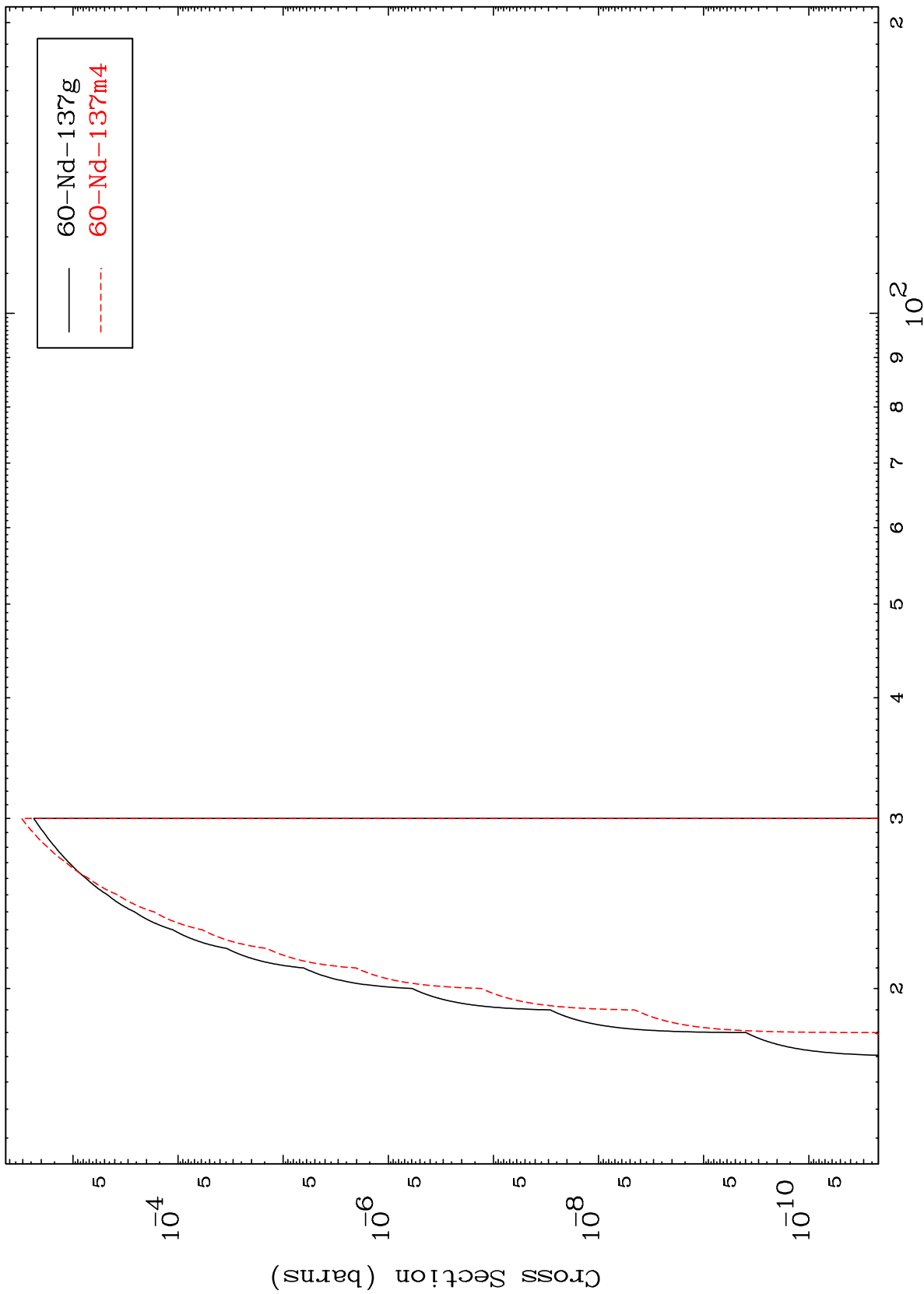


124

Incident Energy (MeV)

61-Pm-140

Radionuclide Production Cross Section

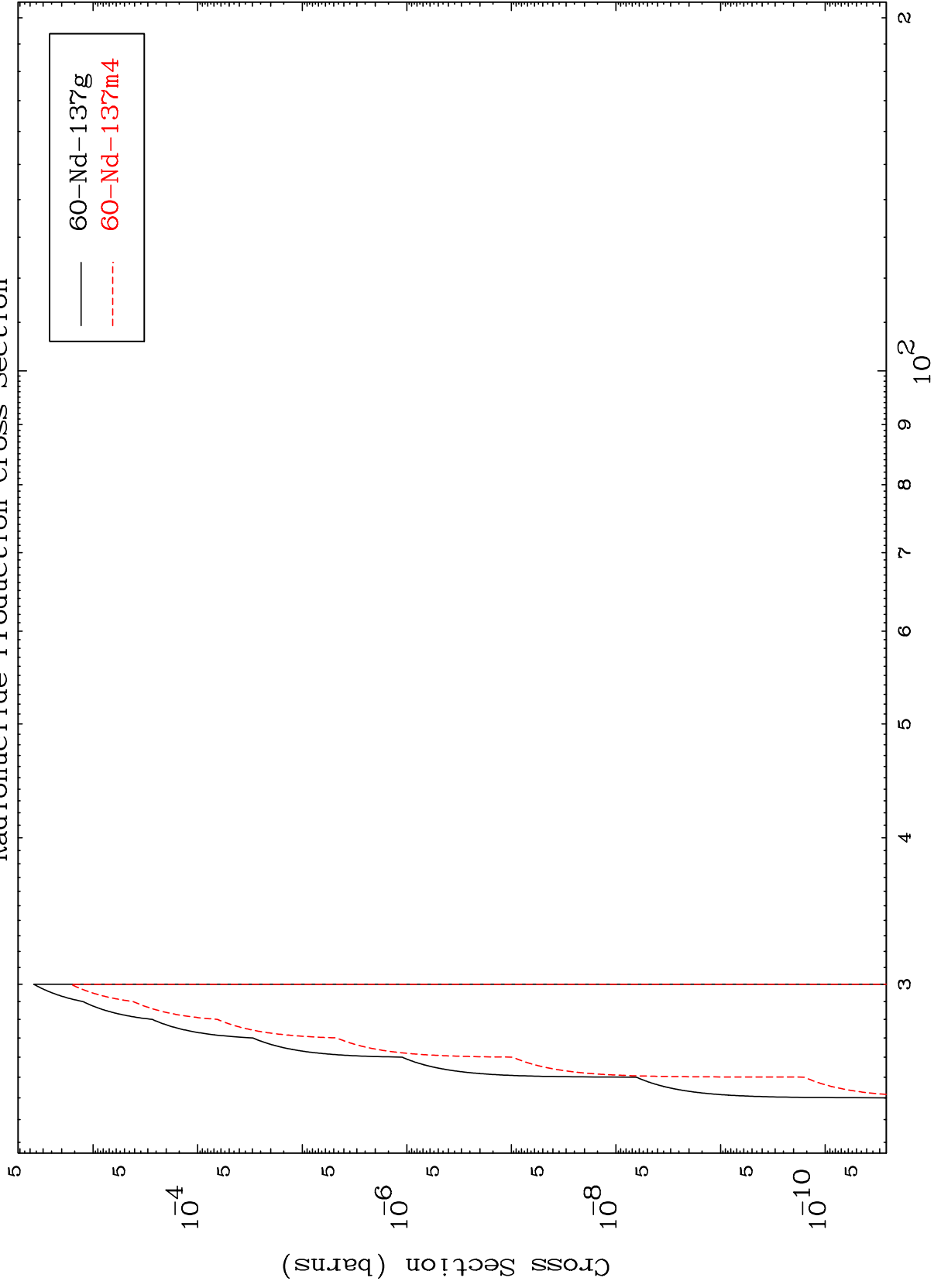


MAT 6128

(n,3n) p

61-Pm-140

Radionuclide Production Cross Section



126

Incident Energy (MeV)

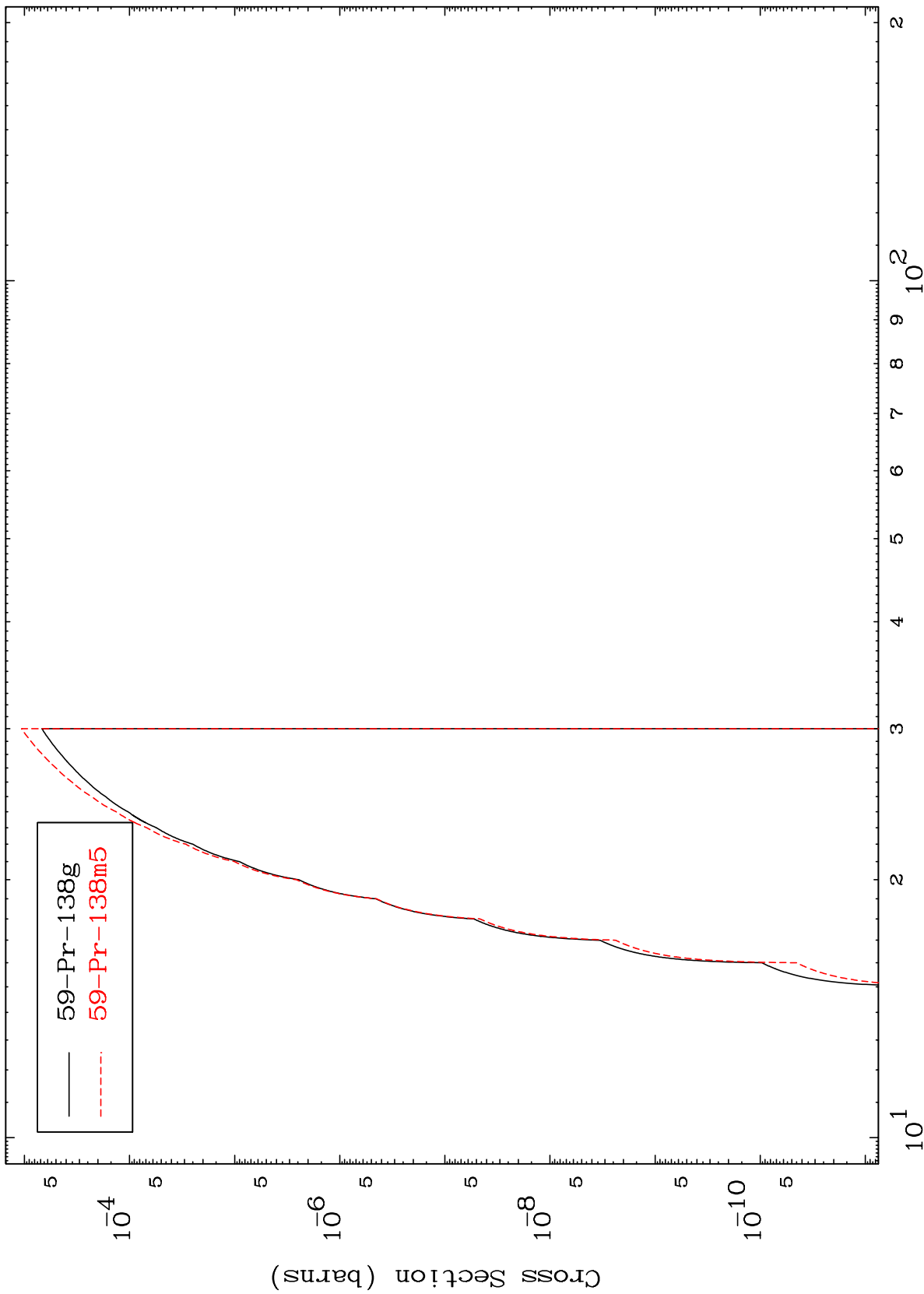
61-Pm-140

MAT 6128

(n,2n) p

61-Pm-140

Radionuclide Production Cross Section



127

Incident Energy (MeV)

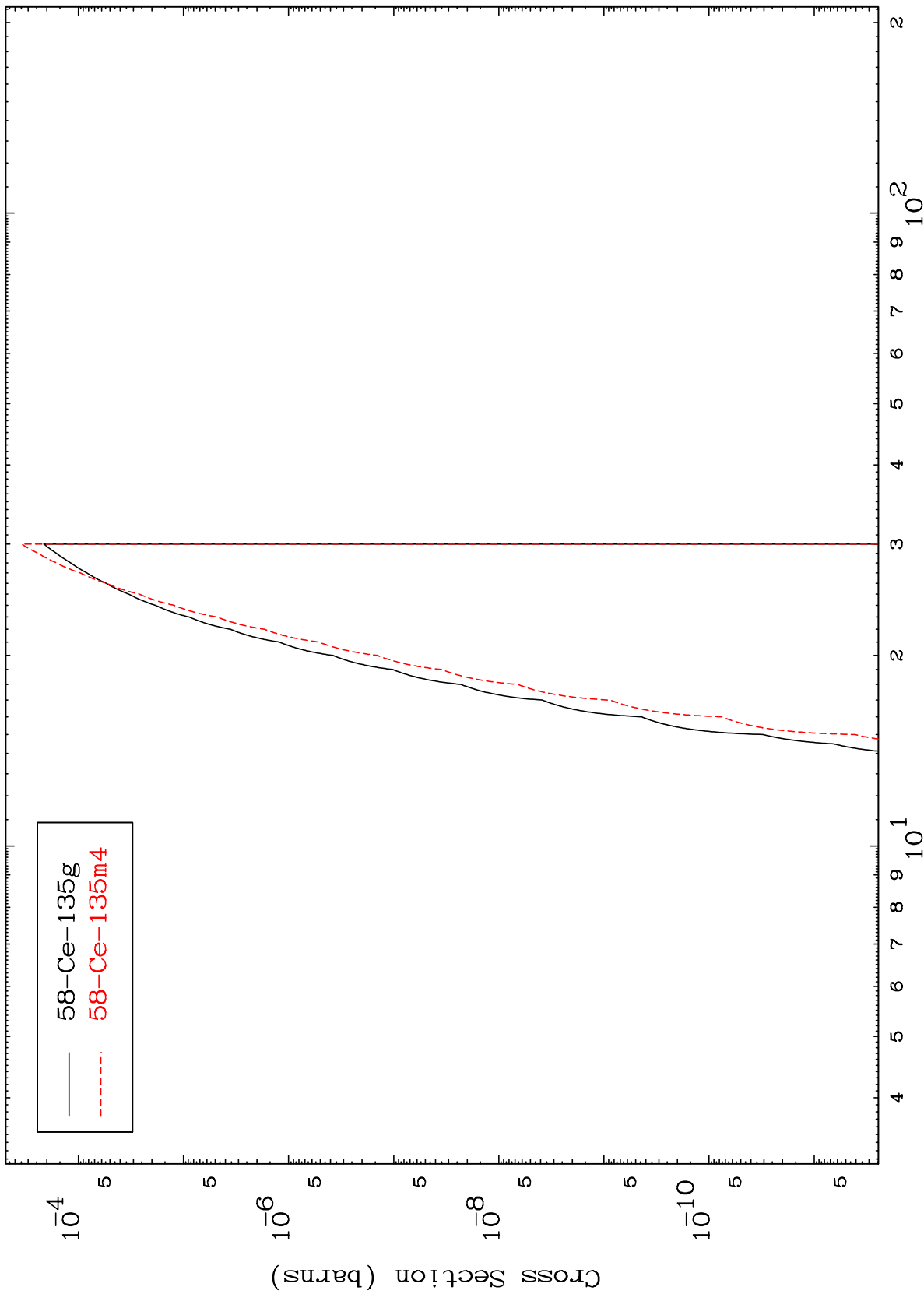
61-Pm-140

MAT 6128

(n,n') p α

61-Pm-140

Radionuclide Production Cross Section



128

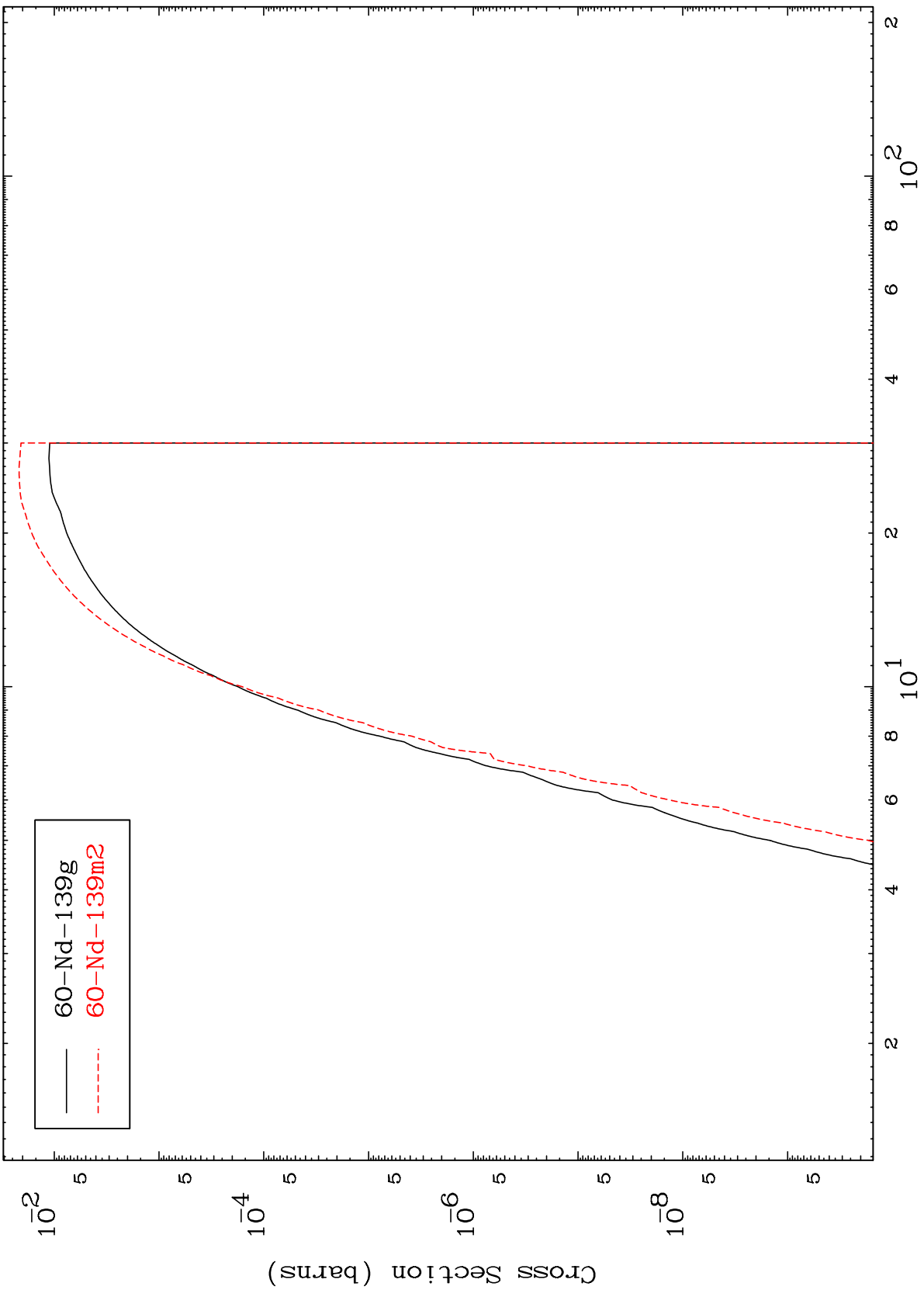
Incident Energy (MeV)

61-Pm-140

MAT 6128

61-Pm-140

(n,d)
Radionuclide Production Cross Section



129

61-Pm-140

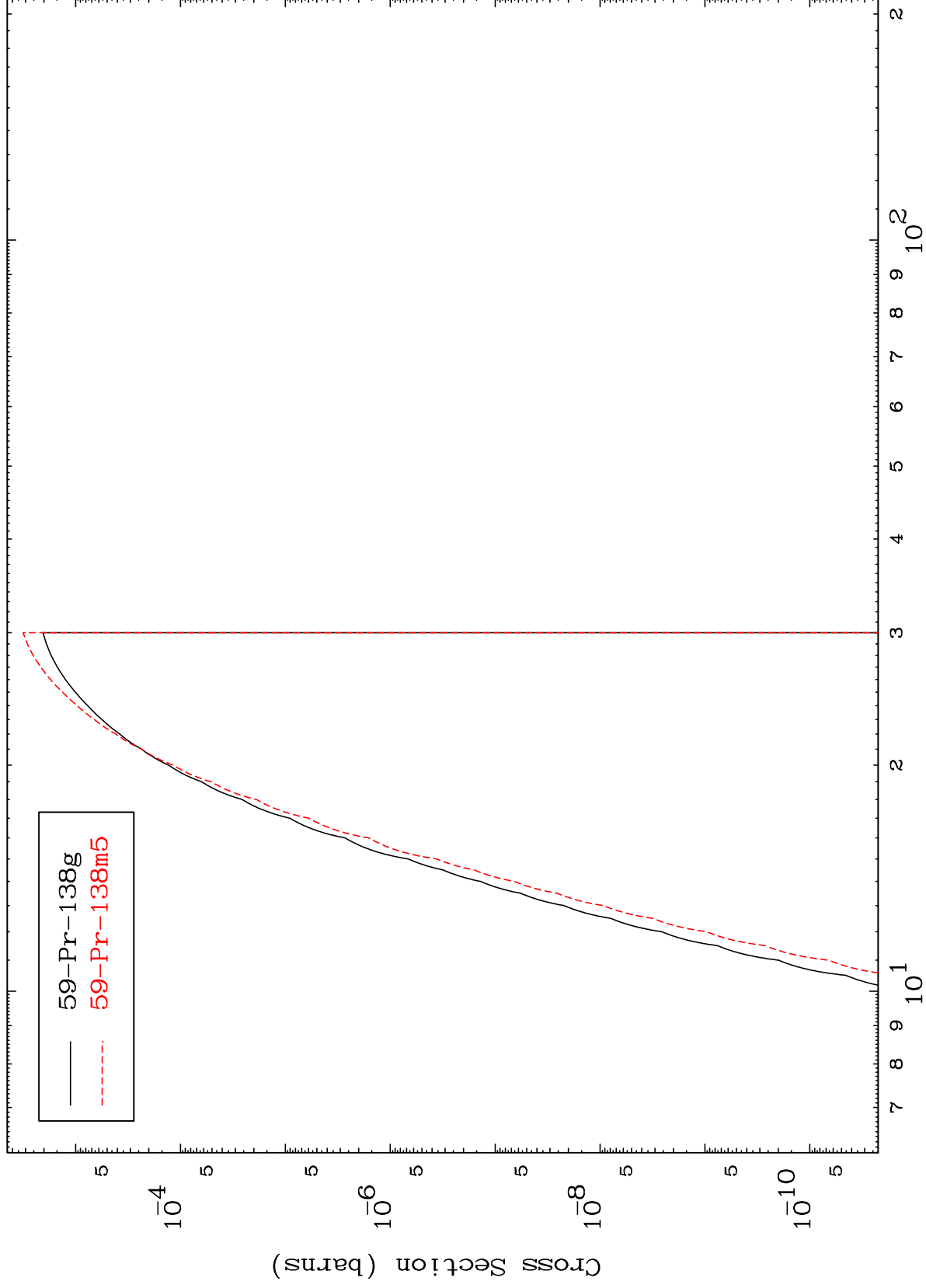
Incident Energy (MeV)

MAT 6128

(n,He-3)

61-Pm-140

Radionuclide Production Cross Section



130

Incident Energy (MeV)

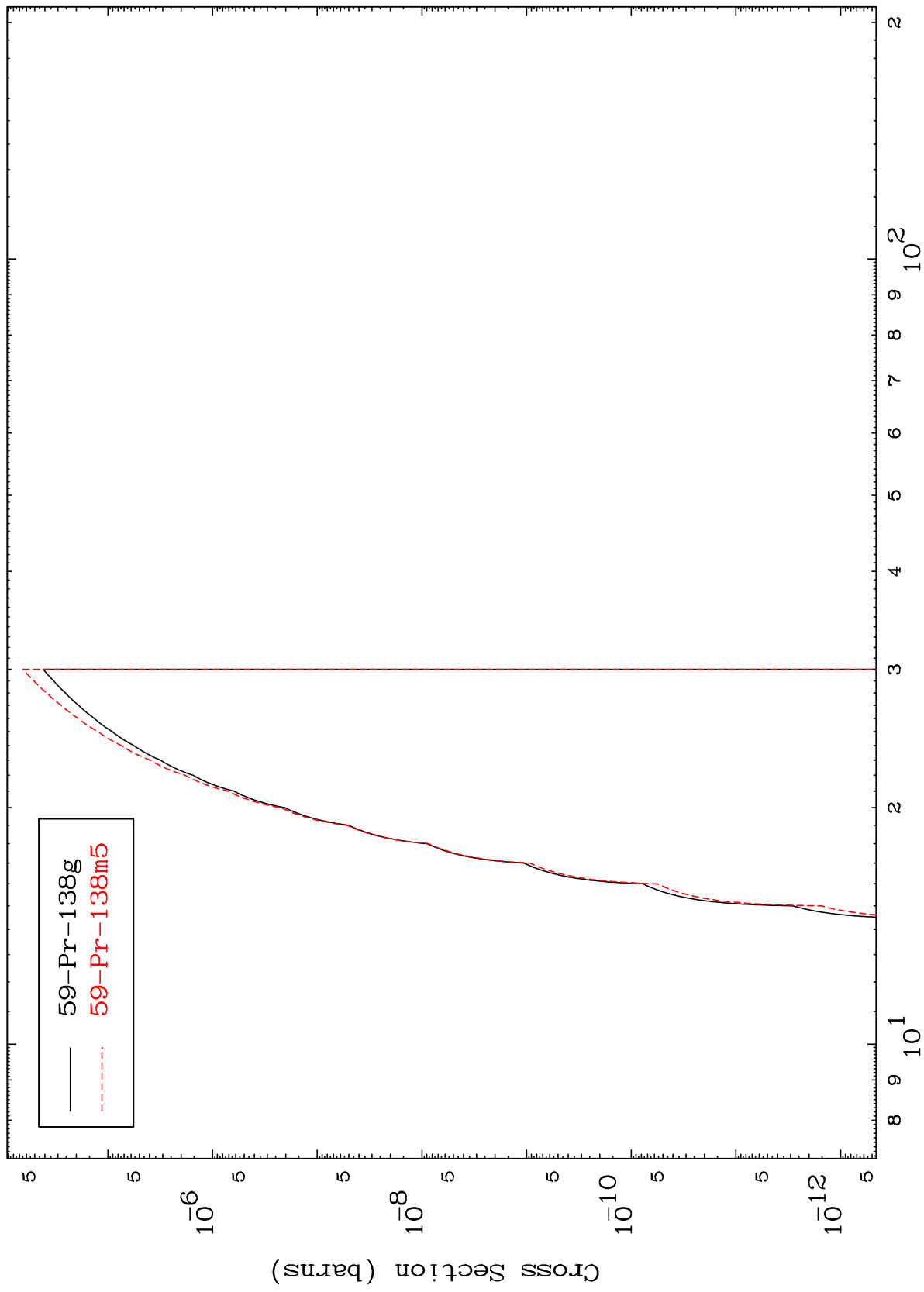
61-Pm-140

MAT 6128

(n,p) d

61-Pm-140

Radionuclide Production Cross Section



131

Incident Energy (MeV)

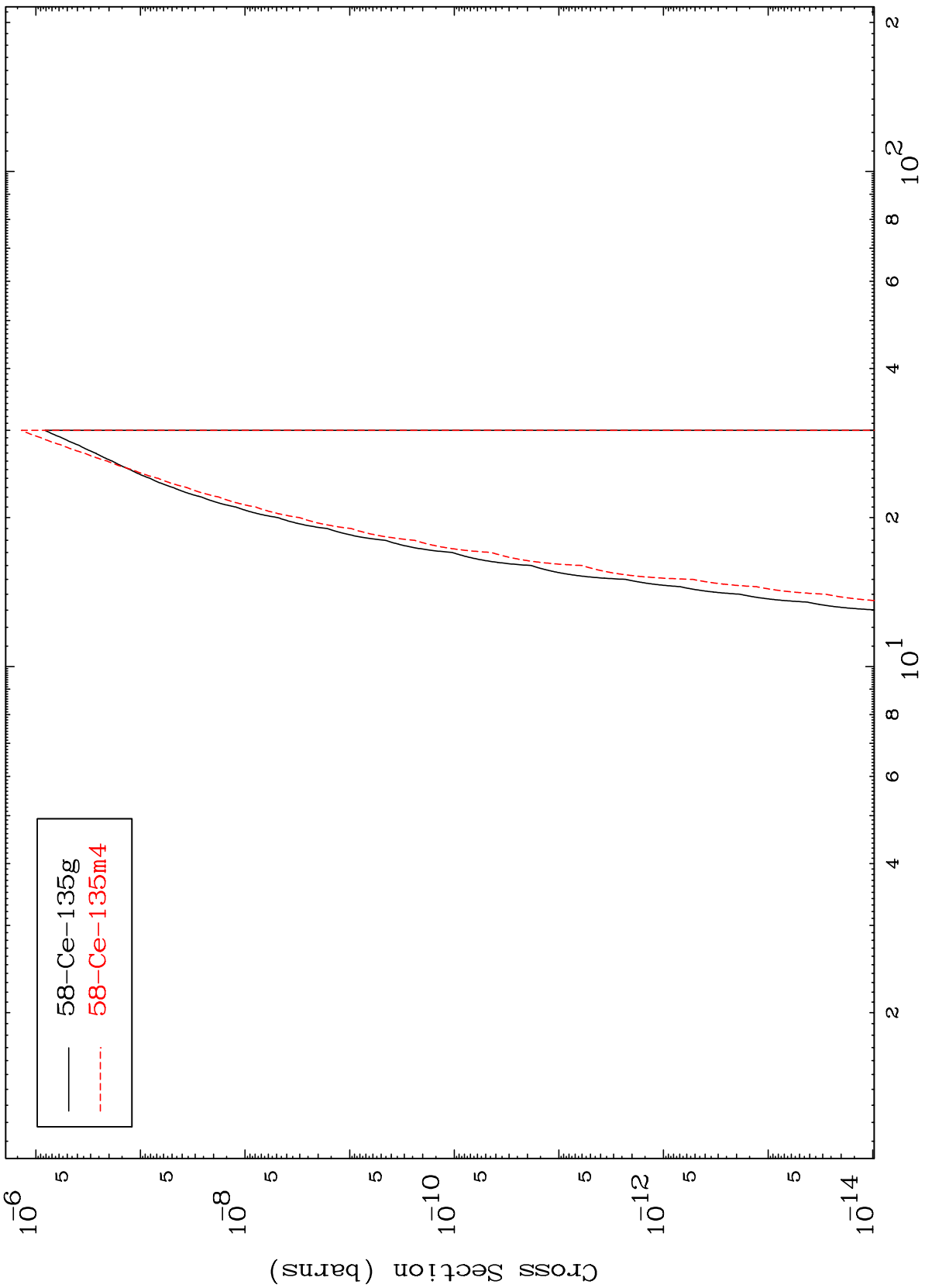
61-Pm-140

MAT 6128

(n,d) α

61-Pm-140

Radionuclide Production Cross Section



132

Incident Energy (MeV)

61-Pm-140