

Program EVALPLOT
(Version 2018-1)

by

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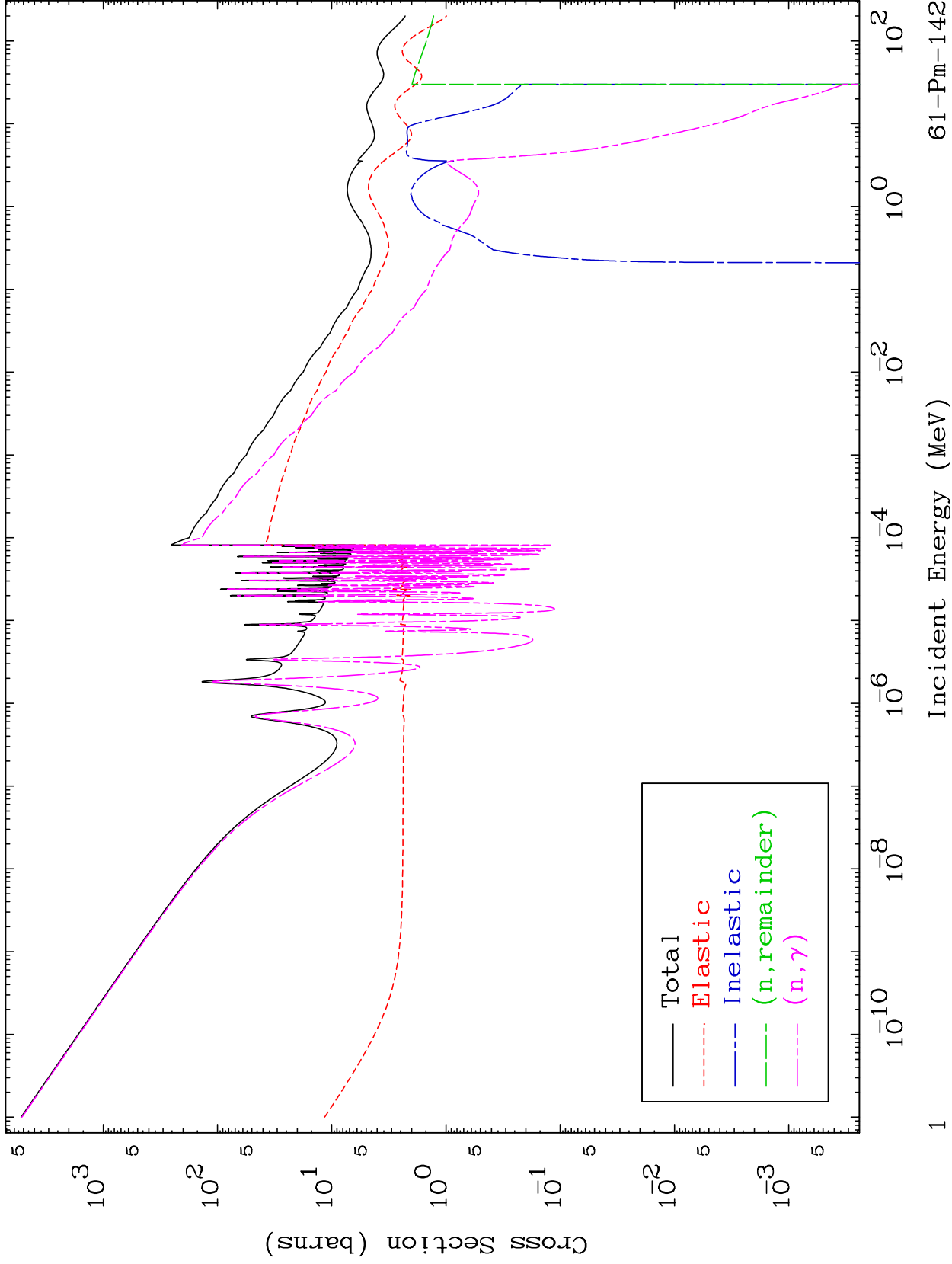
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6134

Major
293 Kelvin Cross Sections

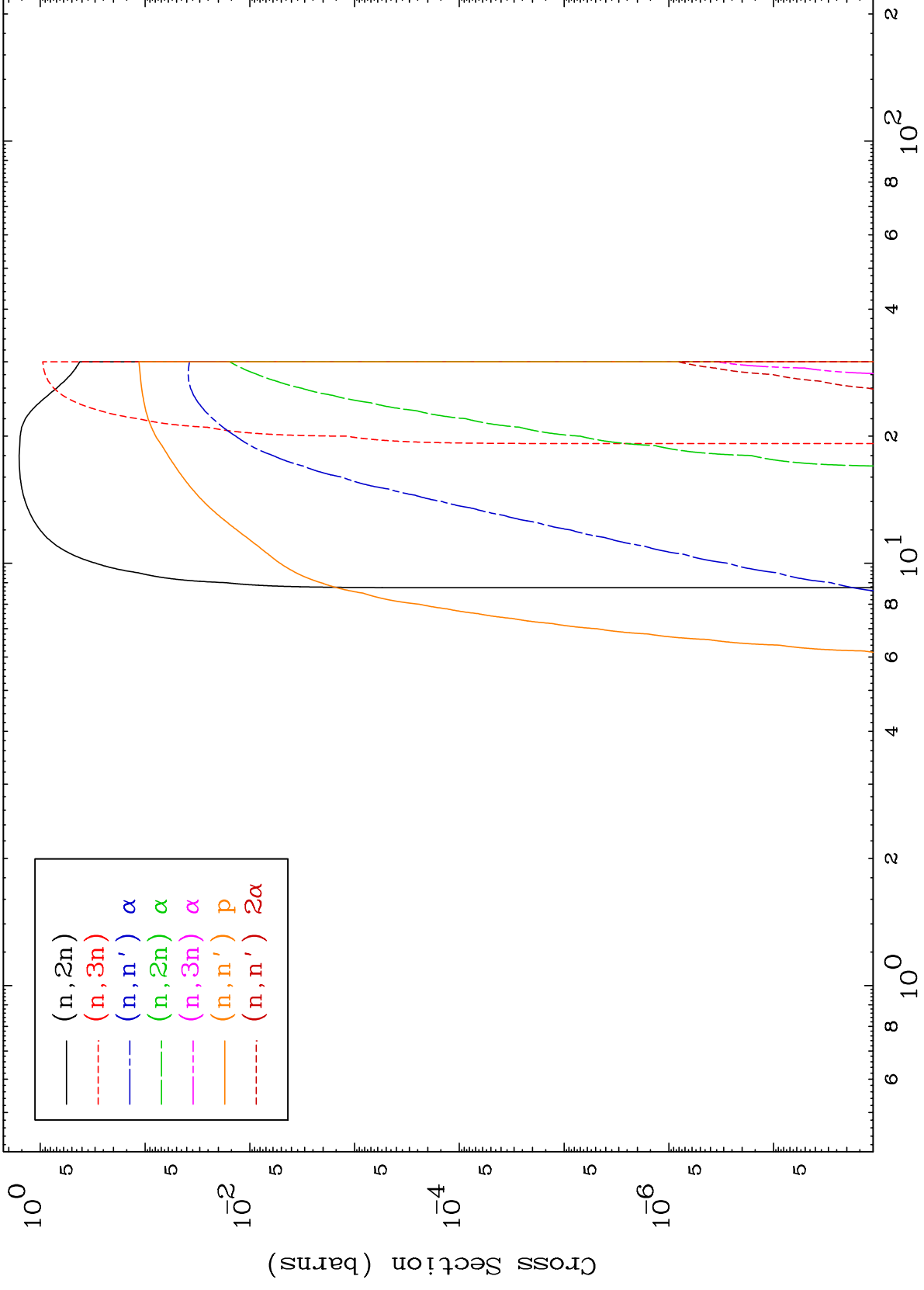
61-Pm-142



MAT 6134

Neutron Production
293 Kelvin Cross Sections

61-Pm-142



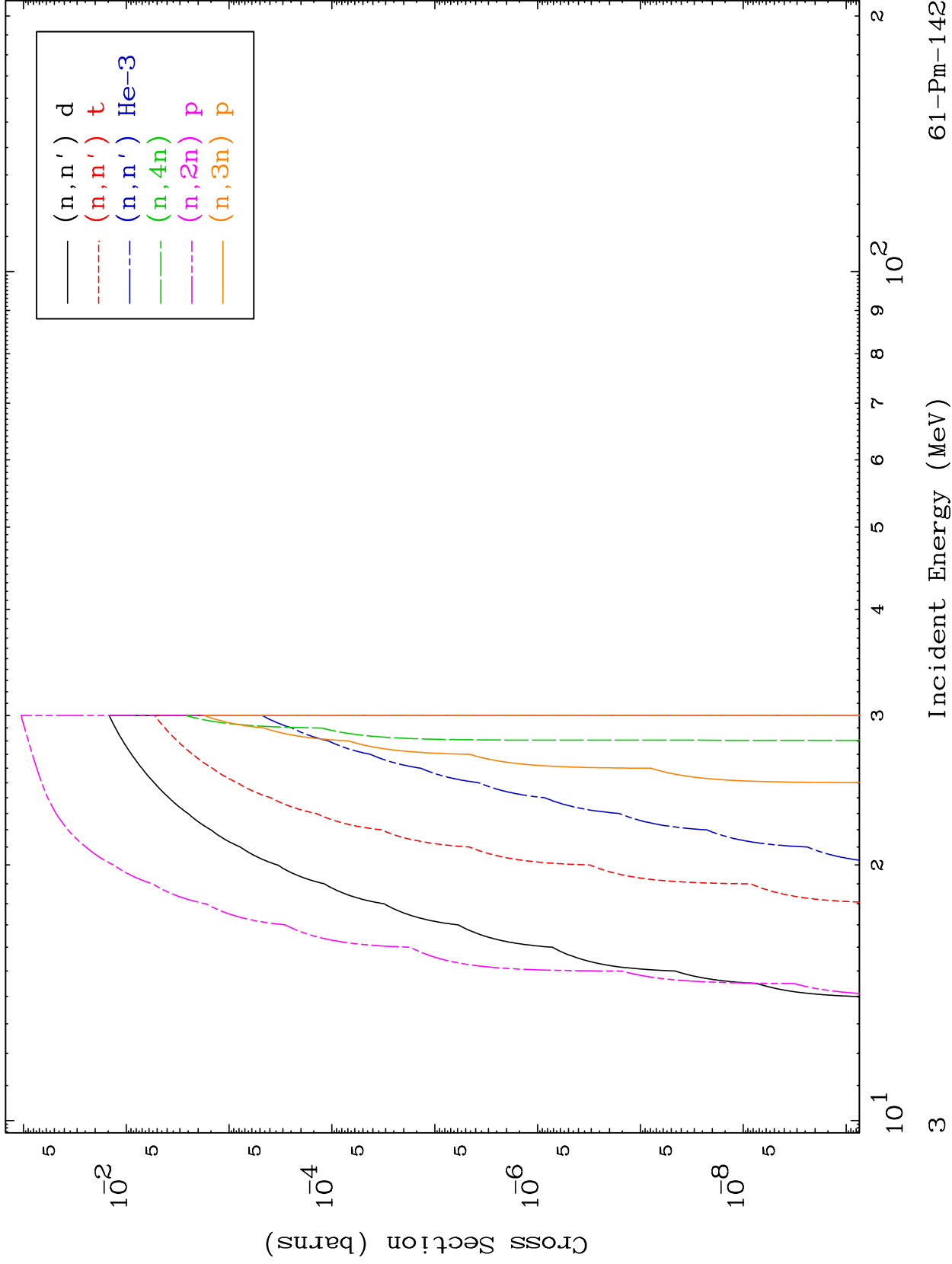
Incident Energy (MeV)

61-Pm-142

MAT 6134

Neutron Production
293 Kelvin Cross Sections

61-Pm-142



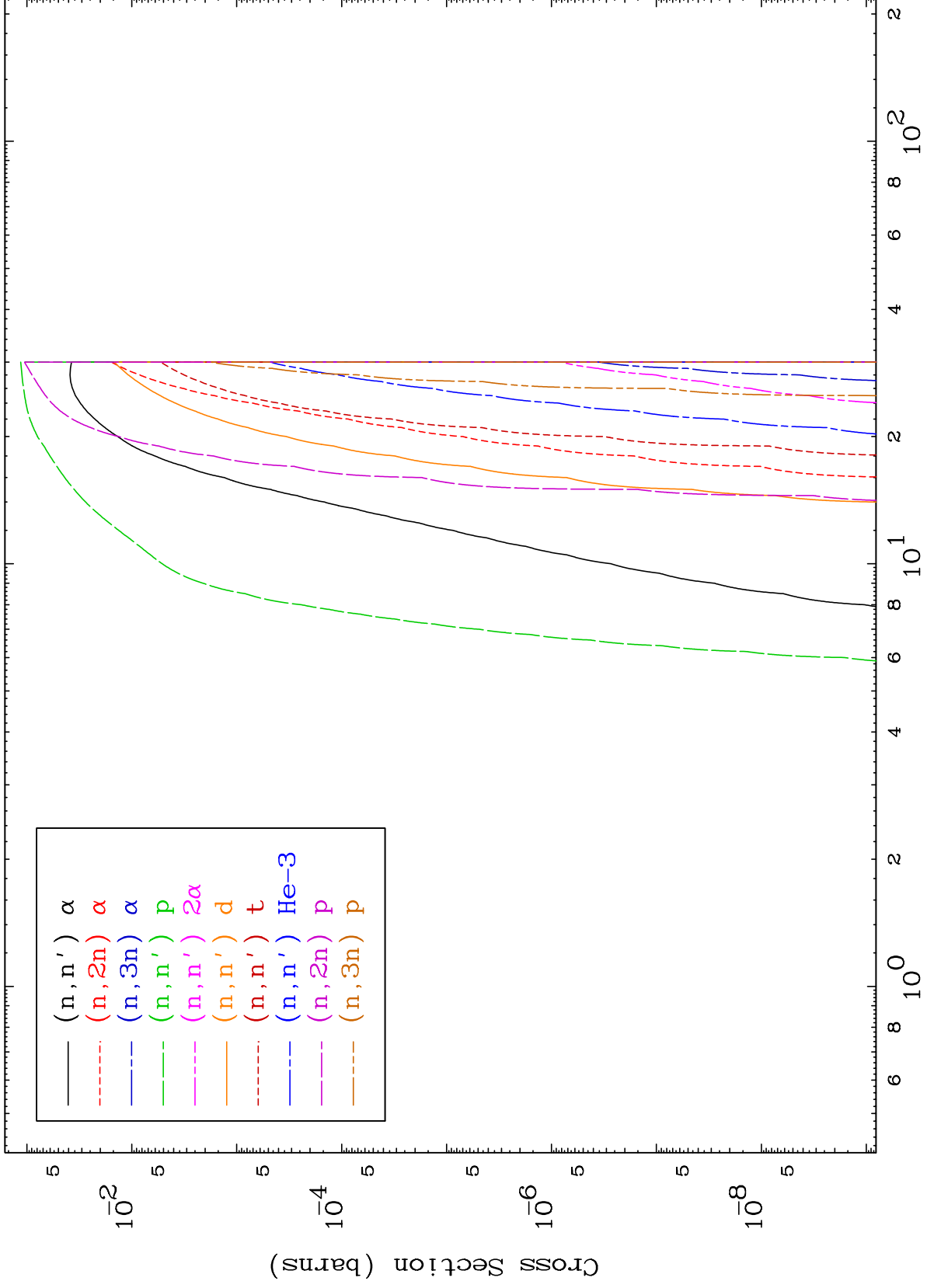
61-Pm-142

Incident Energy (MeV)

MAT 6134

Charged Particle
293 Kelvin Cross Sections

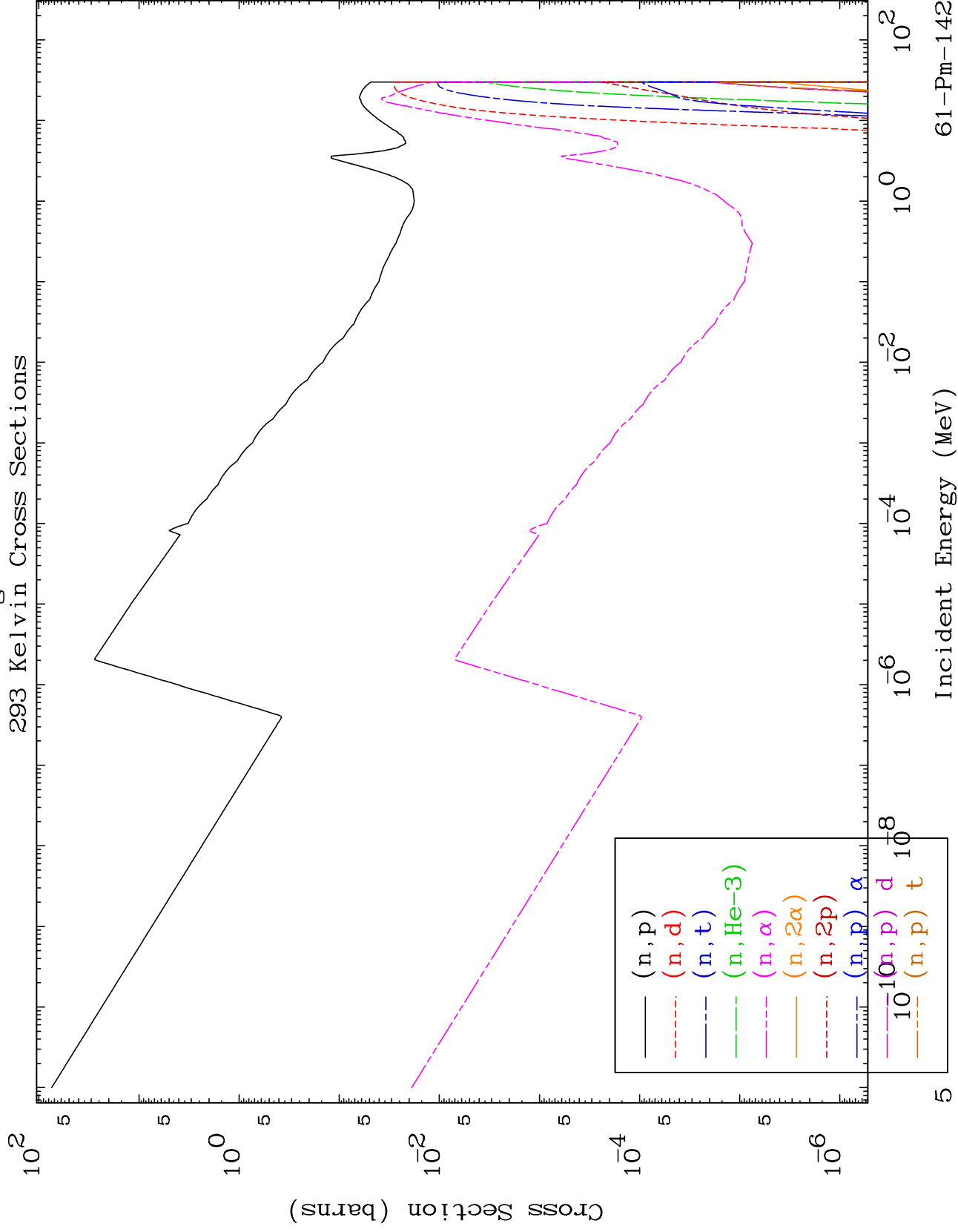
61-Pm-142



MAT 6134

Charged Particle
293 Kelvin Cross Sections

61-Pm-142



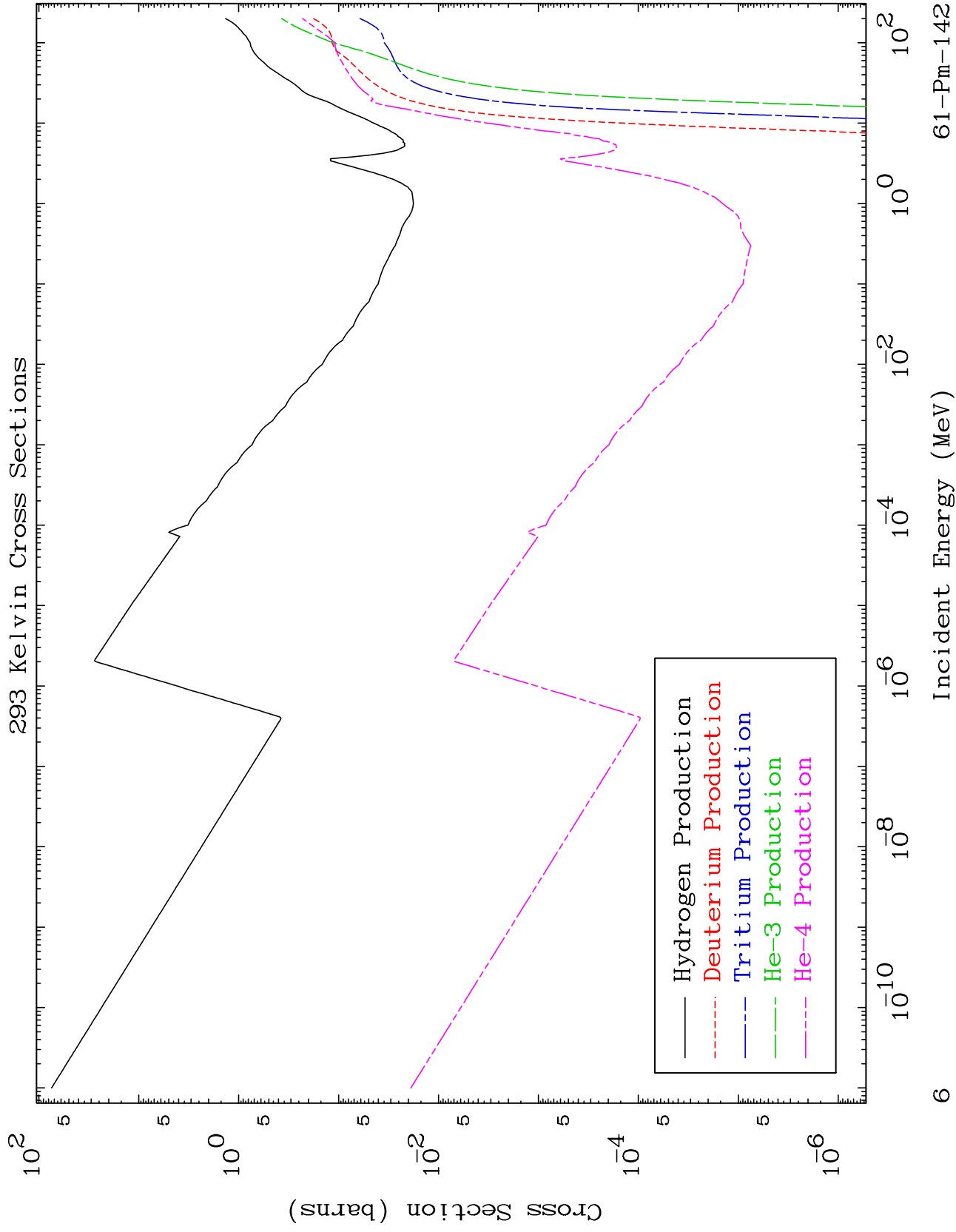
61-Pm-142

Incident Energy (MeV)

MAT 6134

Particle Production
293 Kelvin Cross Sections

61-Pm-142

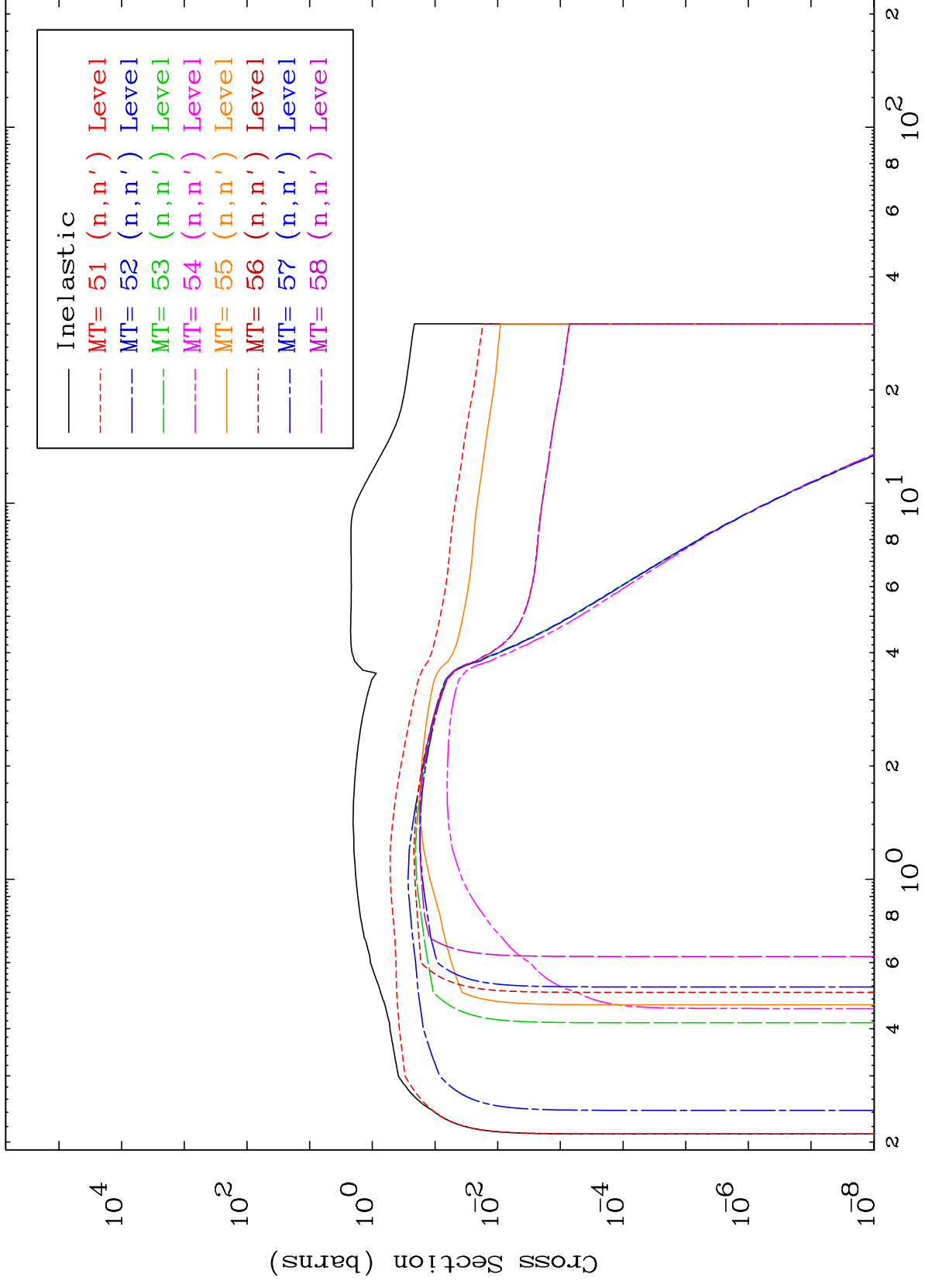


MAT 6134

(n,n') Level

61-Pm-142

293 Kelvin Cross Sections



7

Incident Energy (MeV)

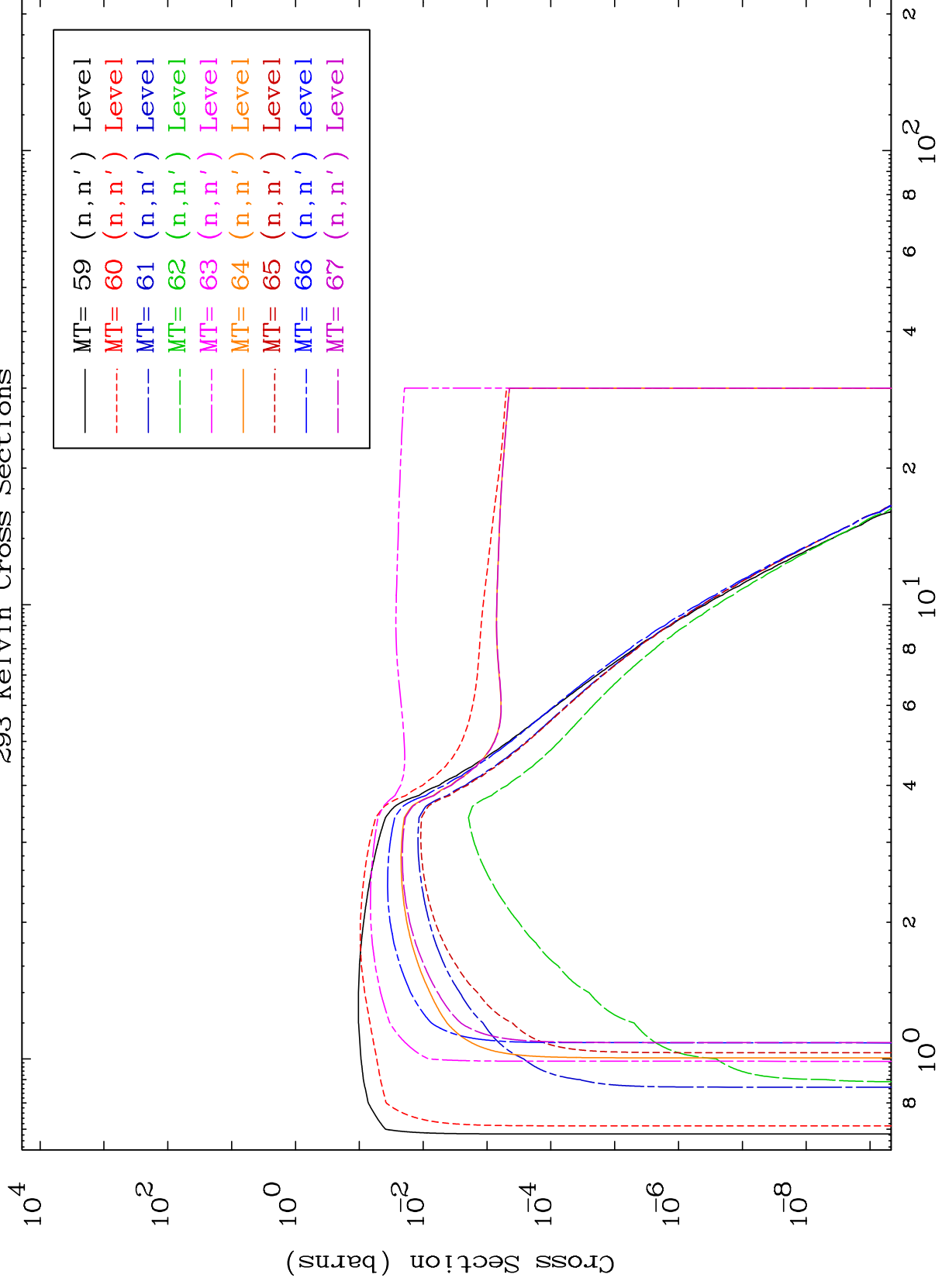
61-Pm-142

MAT 6134

(n,n') Level

61-Pm-142

293 Kelvin Cross Sections

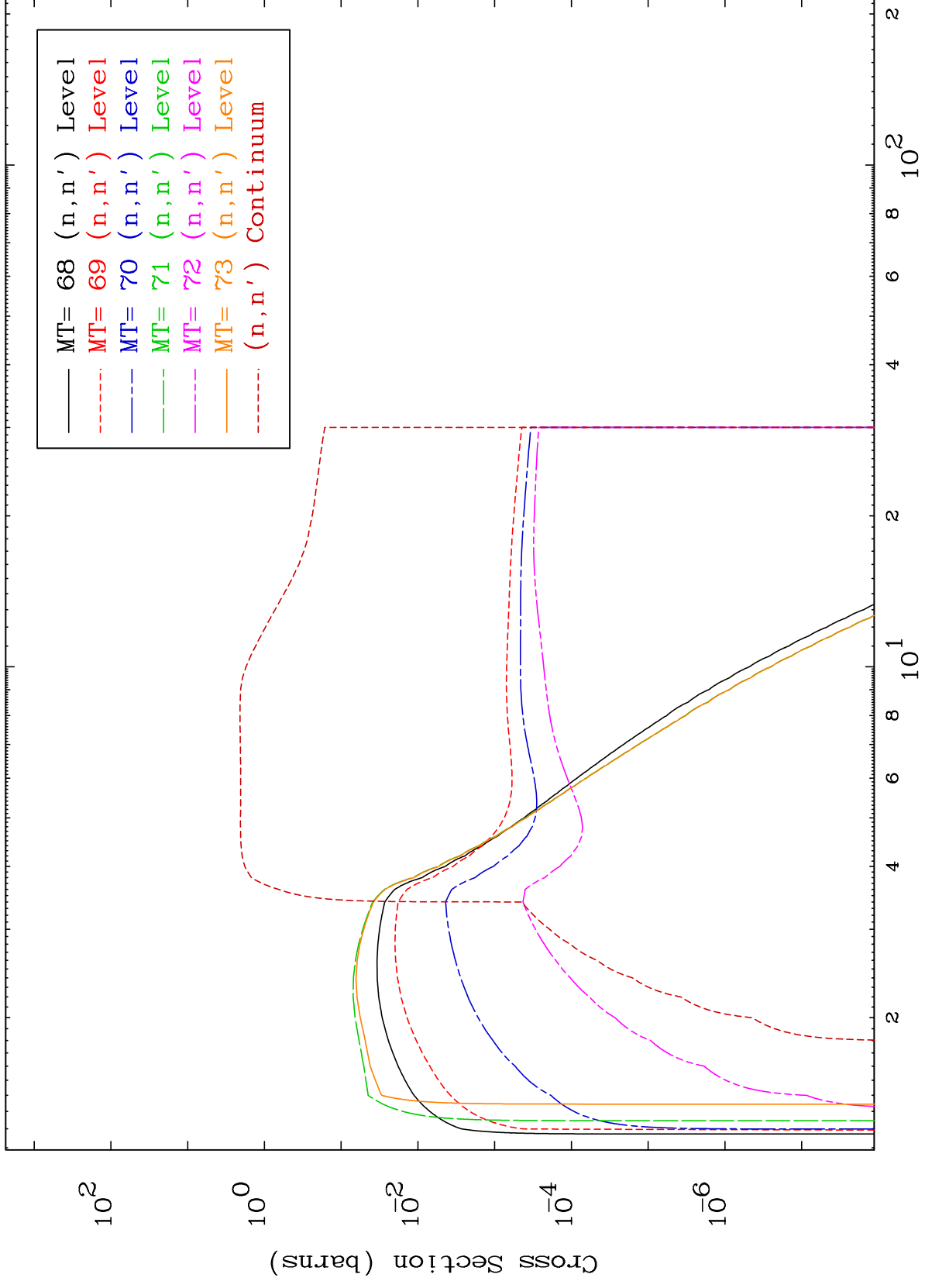


8

Incident Energy (MeV)

61-Pm-142

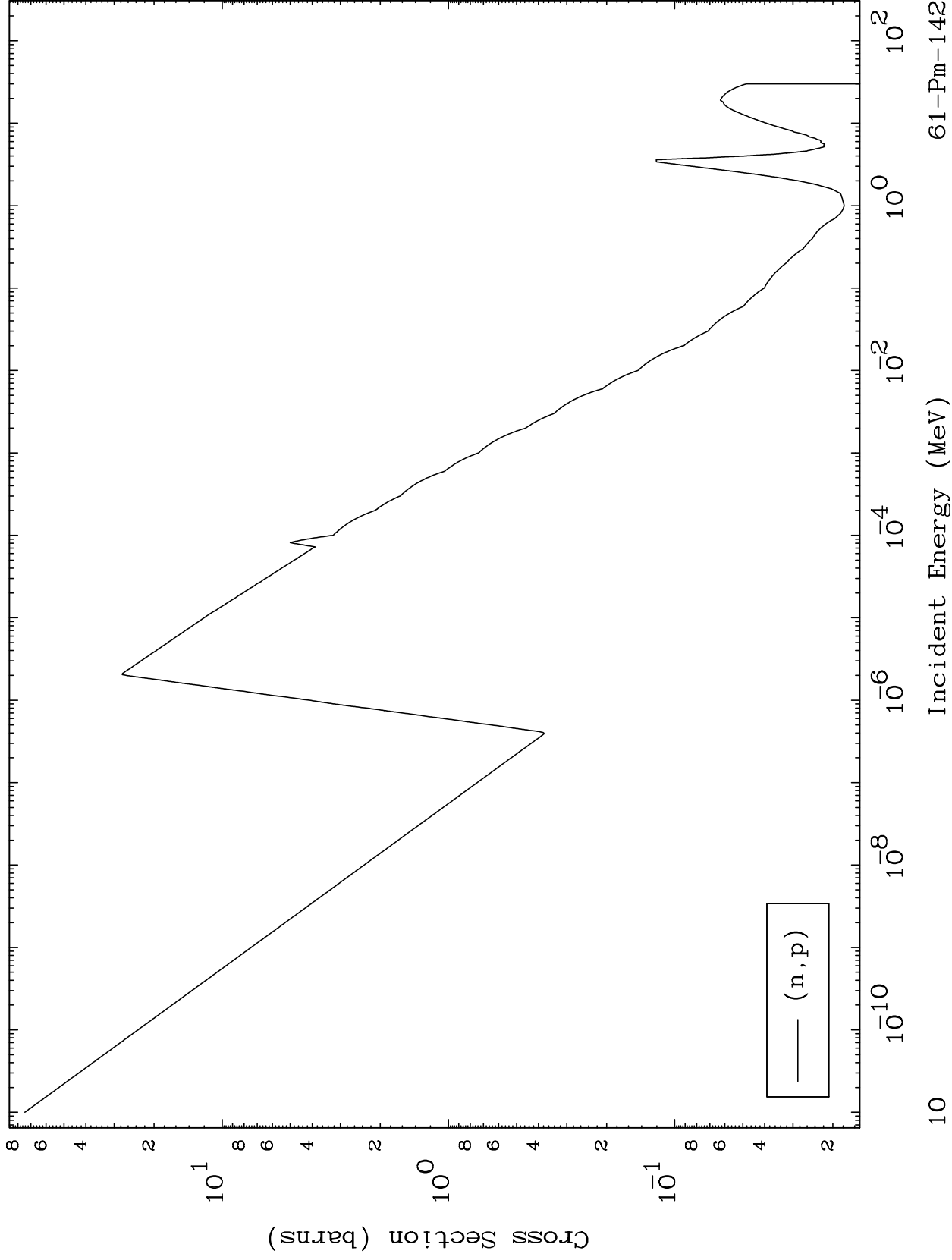
293 Kelvin Cross Sections



MAT 6134

(n,p) Levels
293 Kelvin Cross Sections

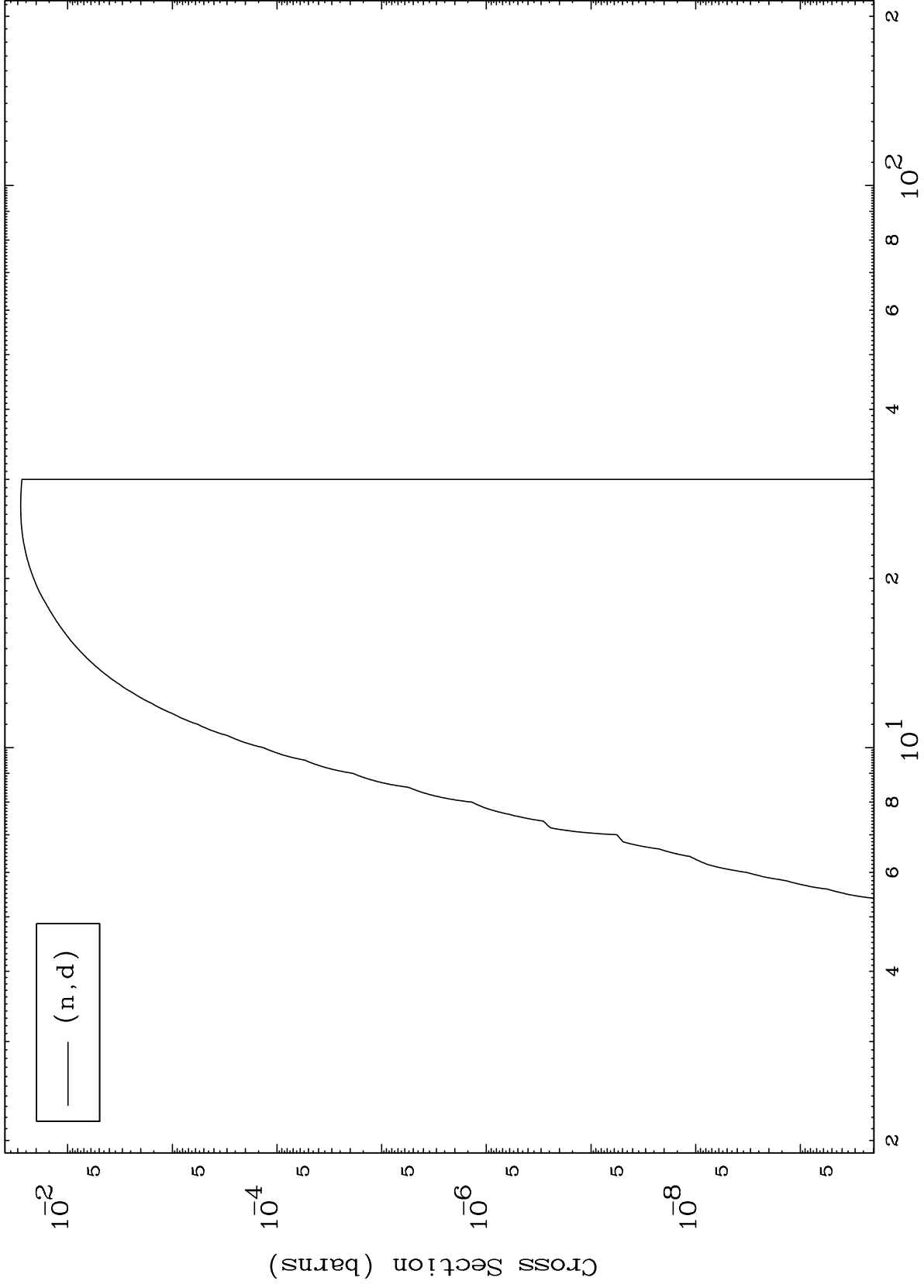
61-Pm-142



MAT 6134

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-142



11

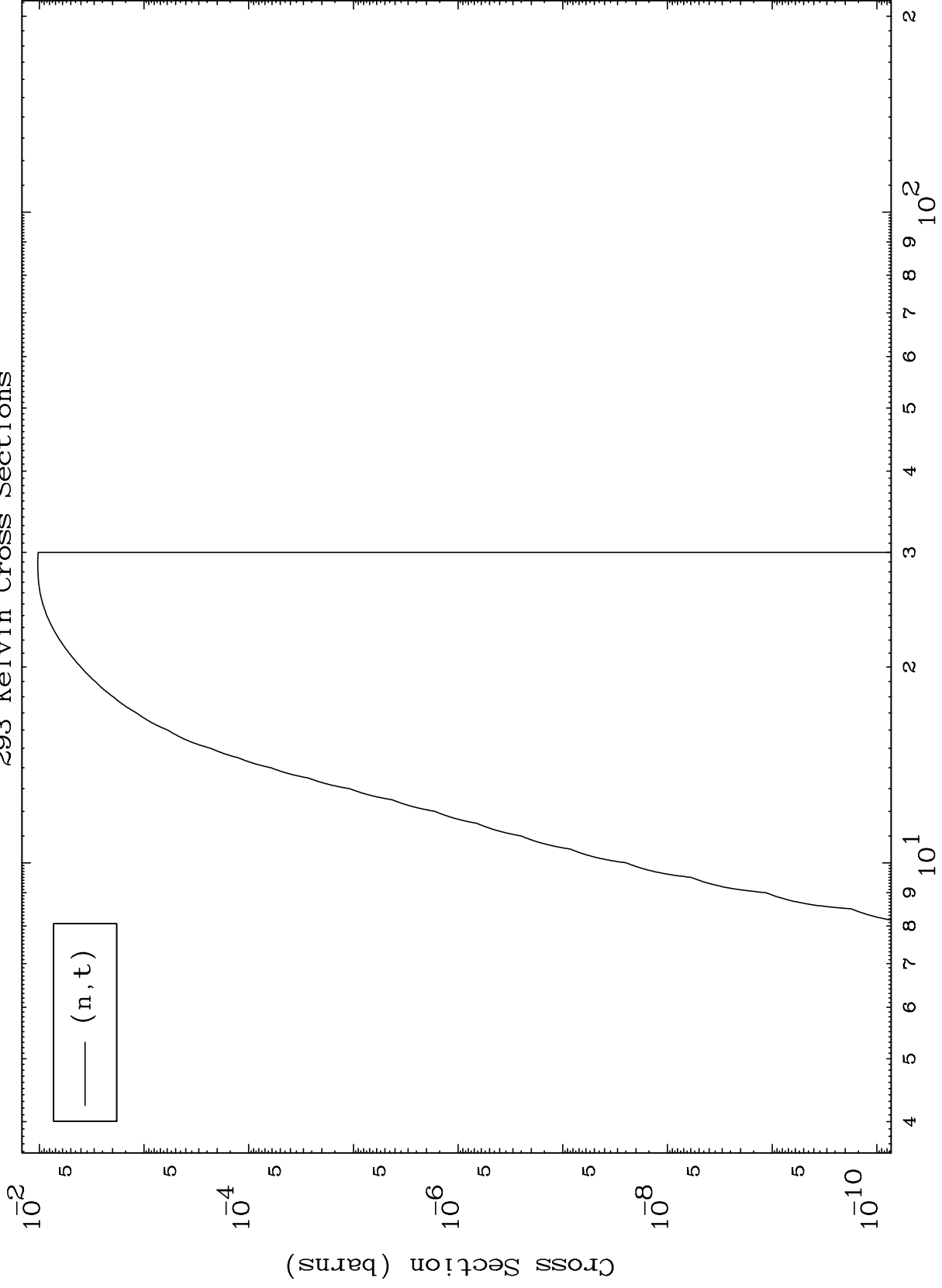
Incident Energy (MeV)

61-Pm-142

MAT 6134

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-142



12

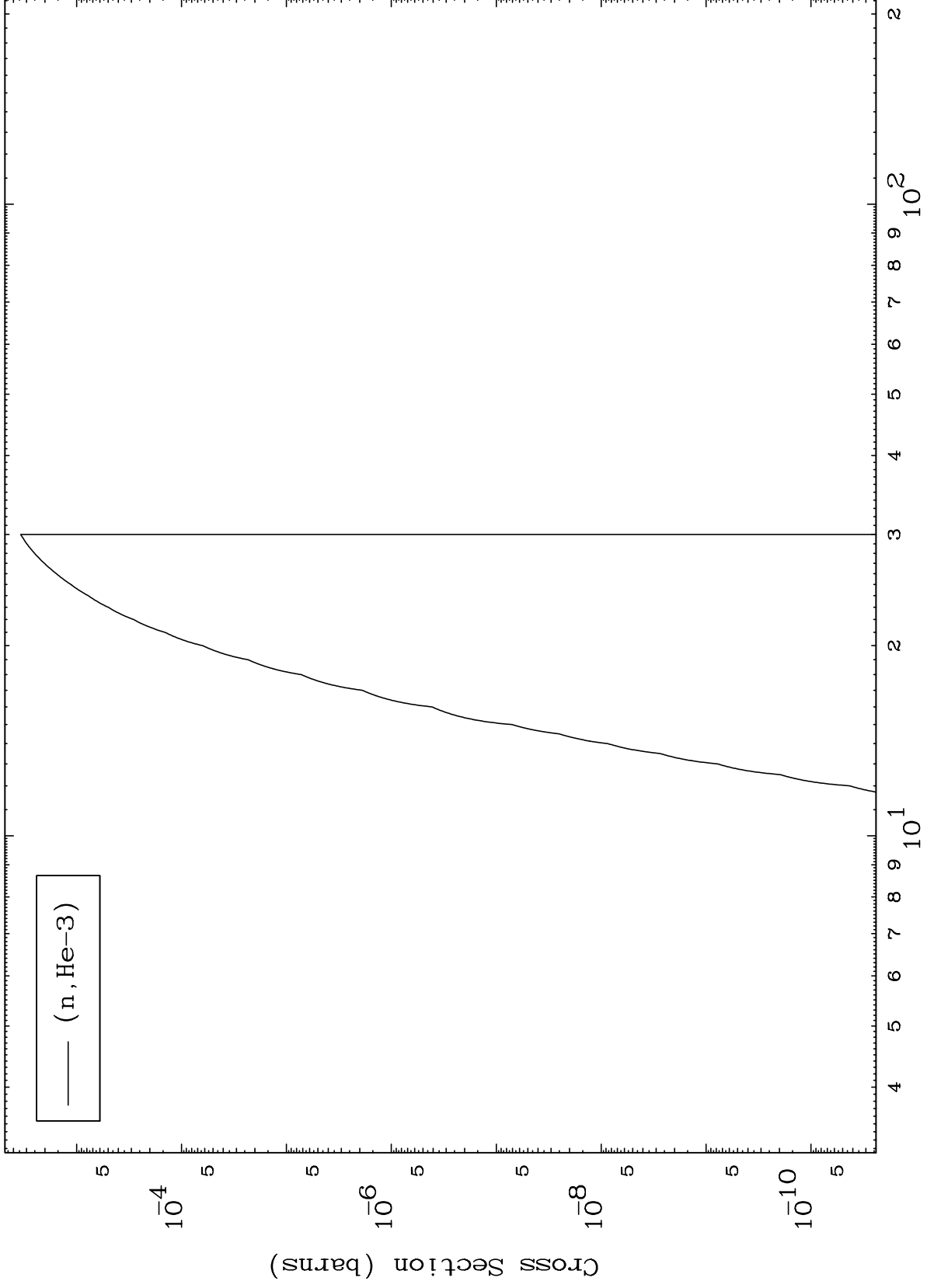
Incident Energy (MeV)

61-Pm-142

MAT 6134

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-142



13

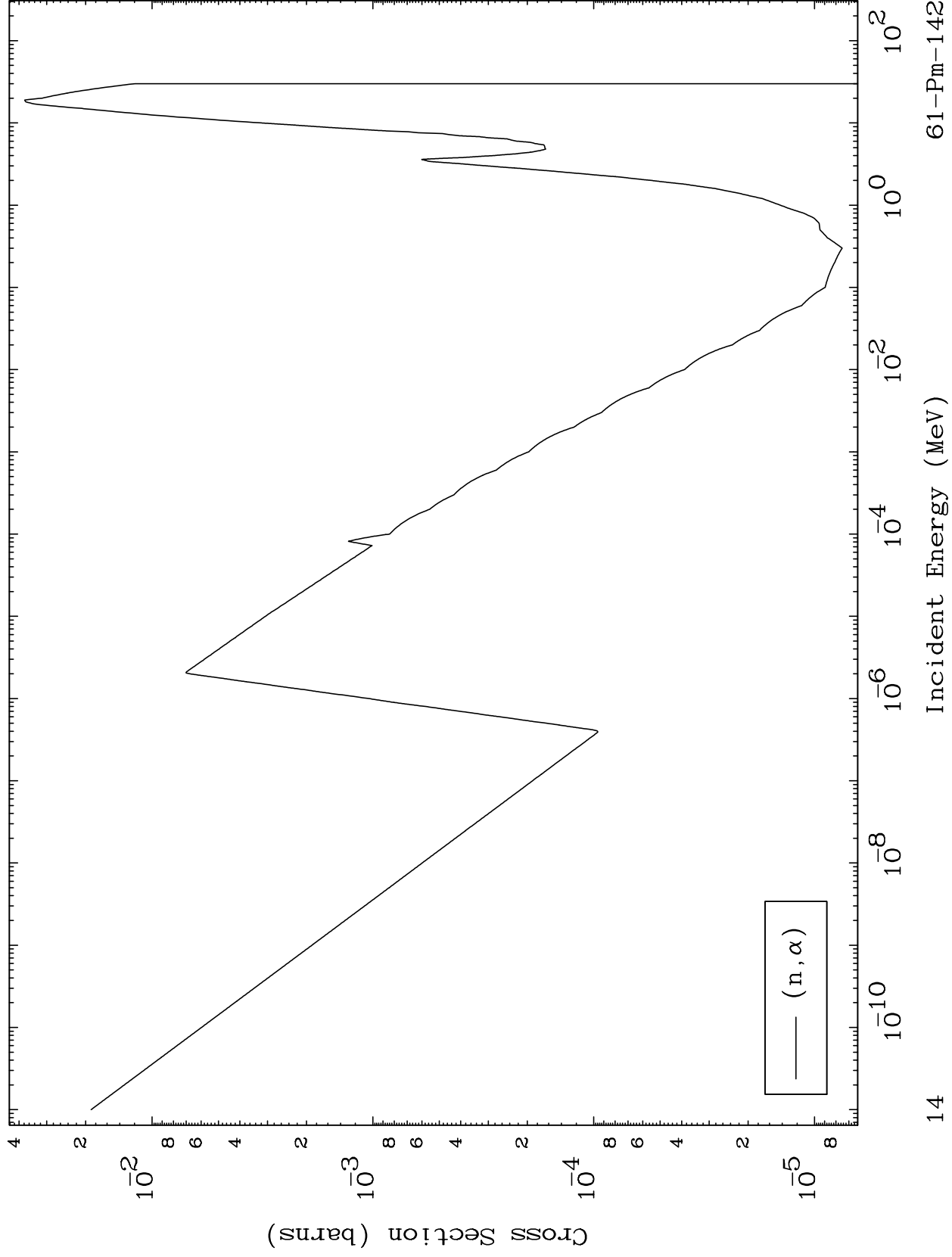
Incident Energy (MeV)

61-Pm-142

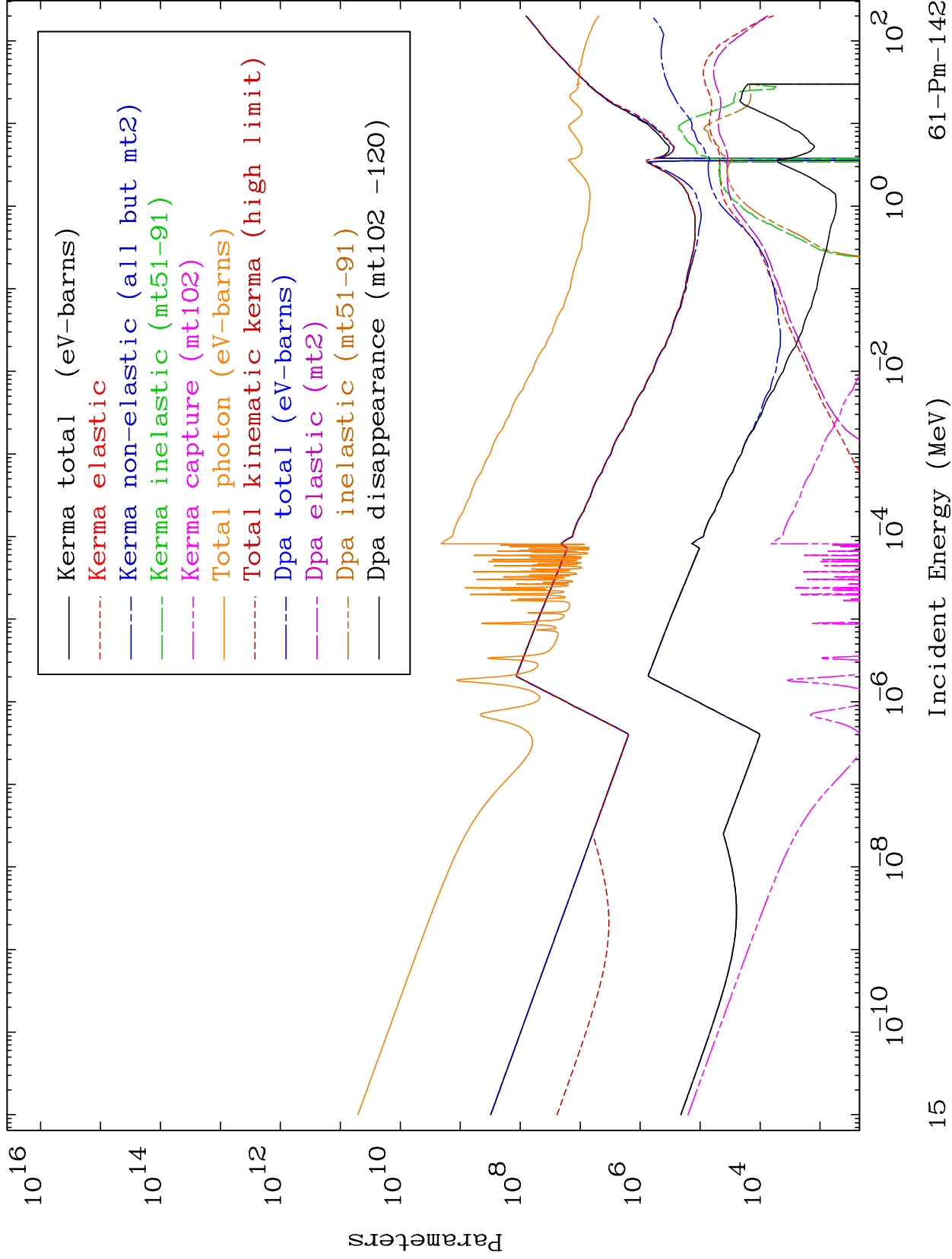
MAT 6134

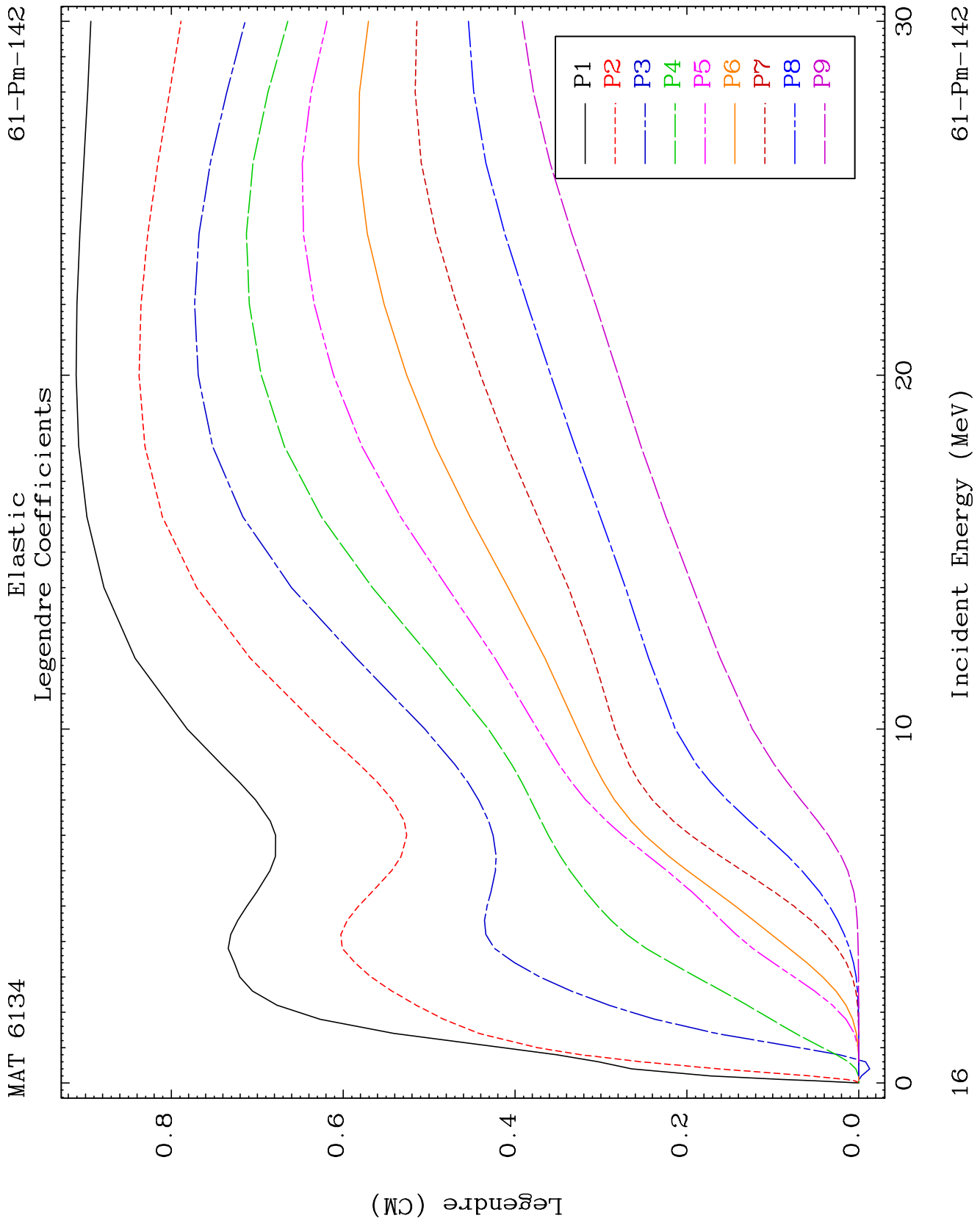
(n, α) Levels
293 Kelvin Cross Sections

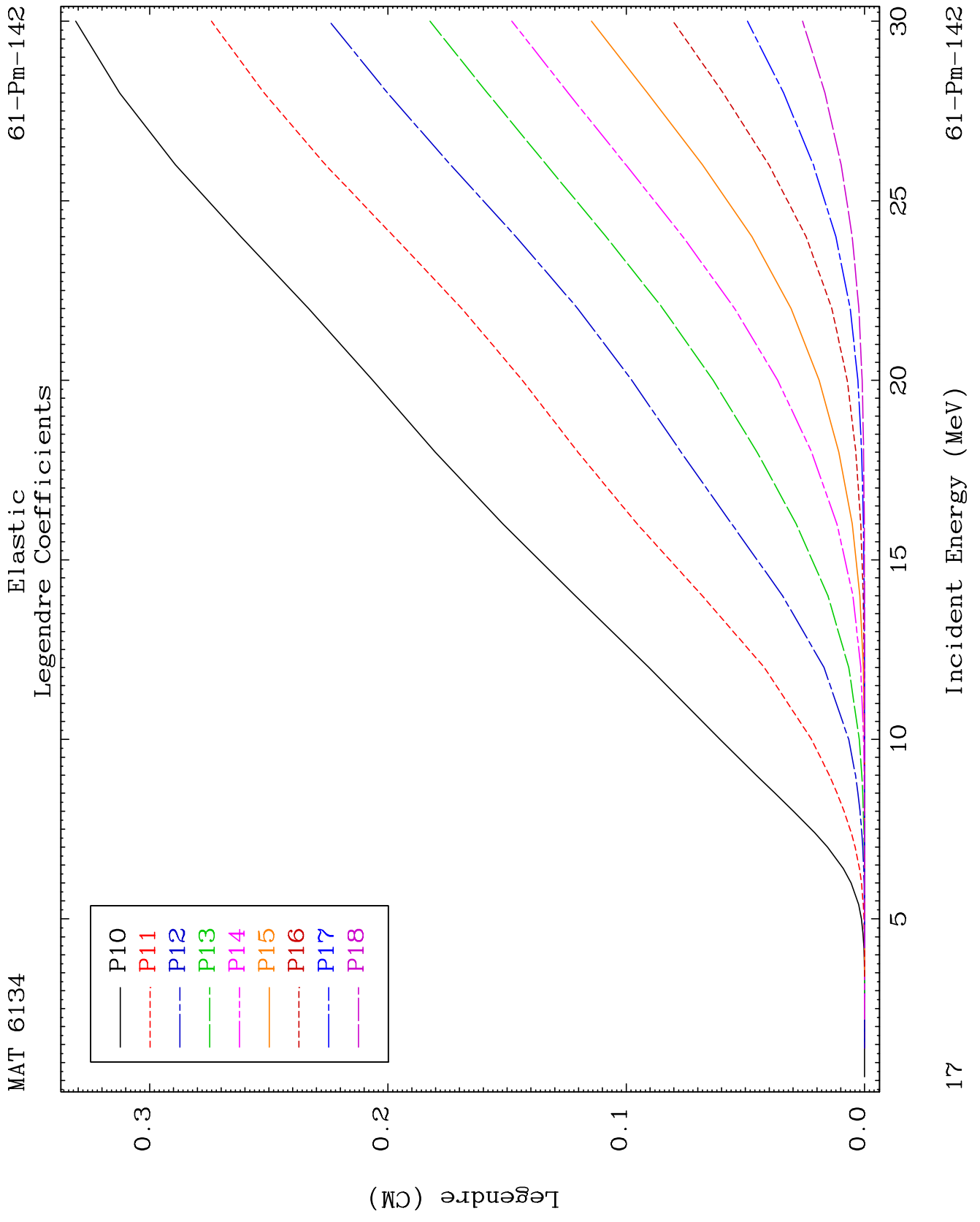
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14



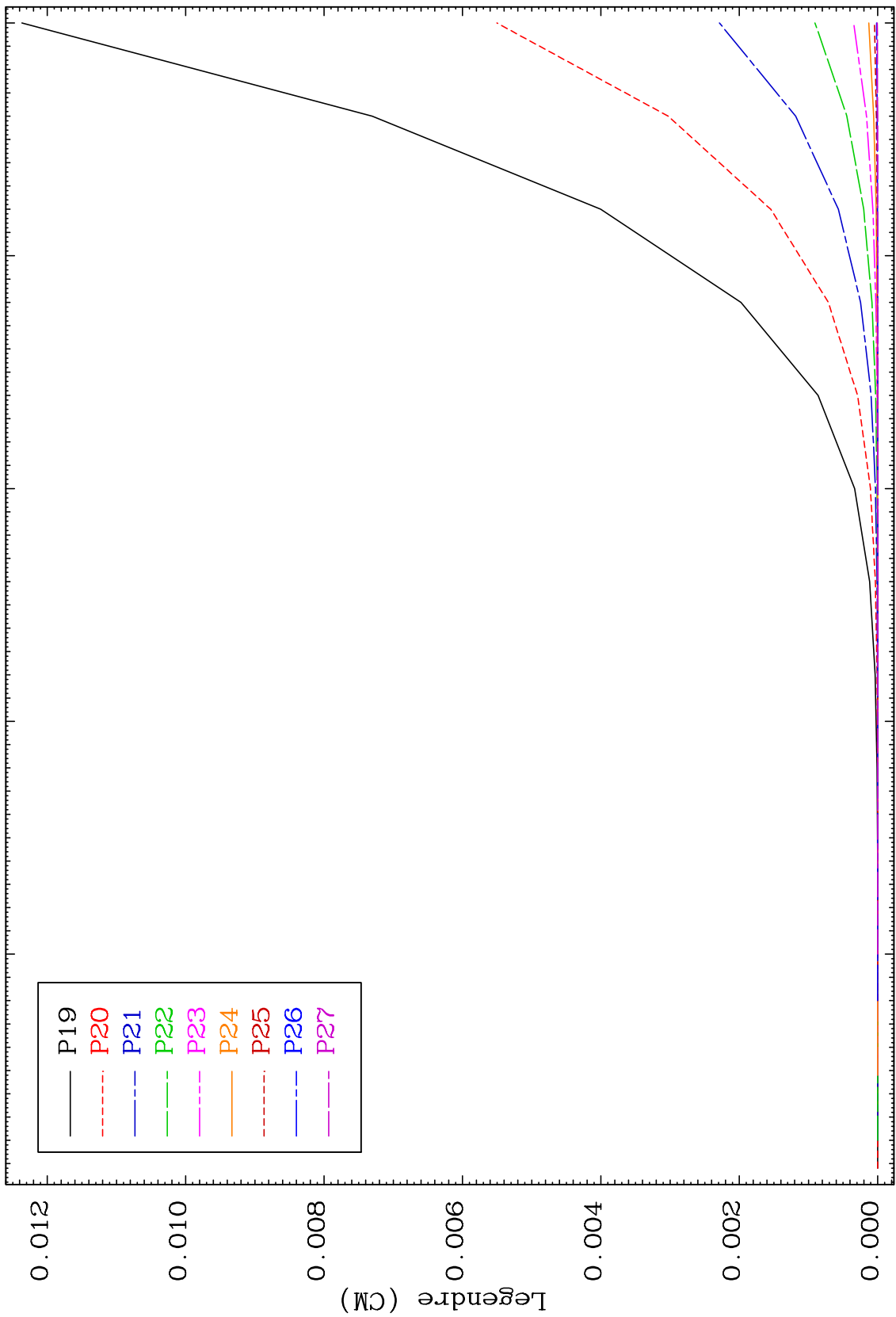




MAT 6134

Elastic Legendre Coefficients

61-Pm-142



18

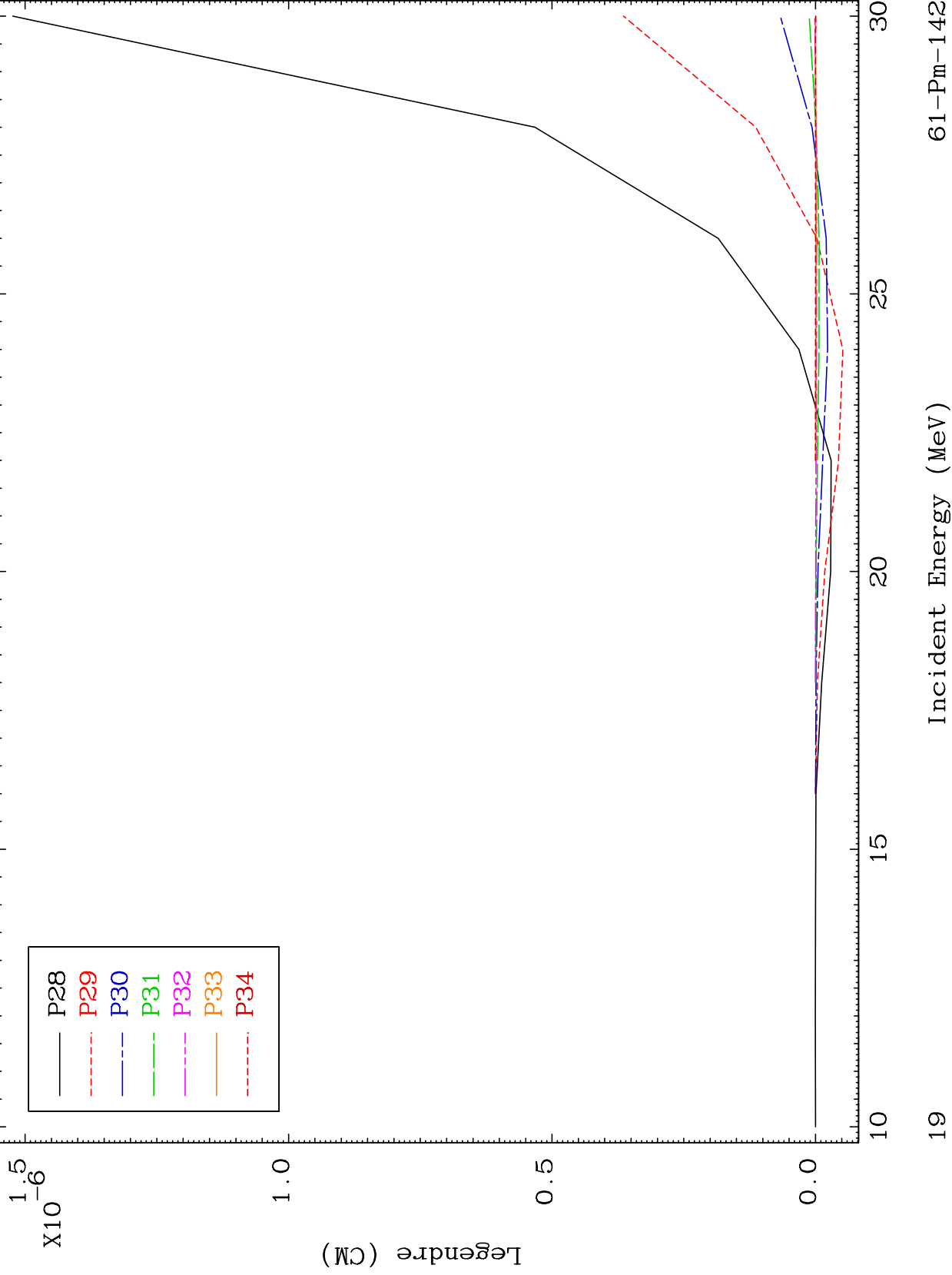
Incident Energy (MeV)

61-Pm-142

MAT 6134

Elastic
Legendre Coefficients

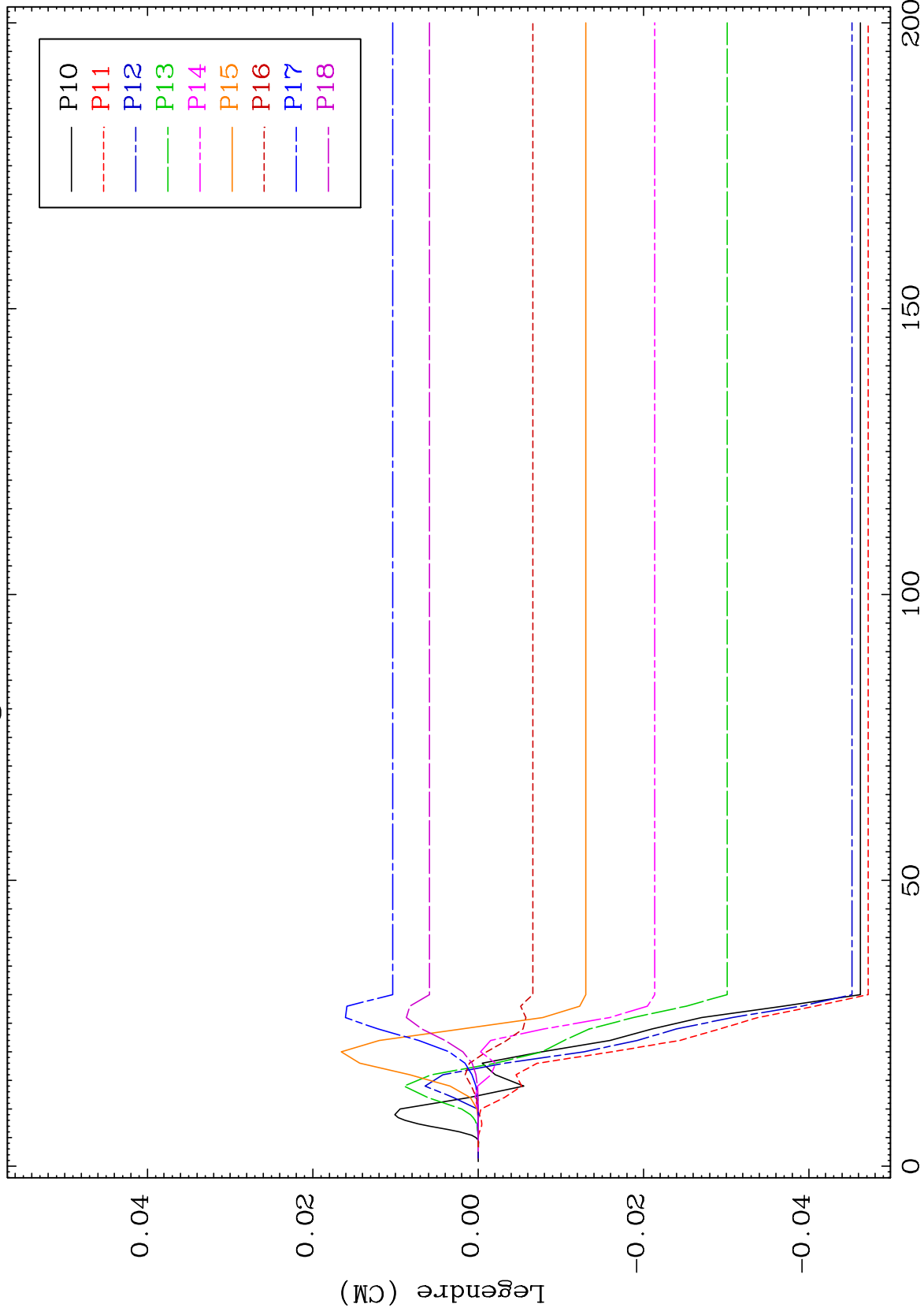
61-Pm-142



MAT 6134

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

61-Pm-142



21

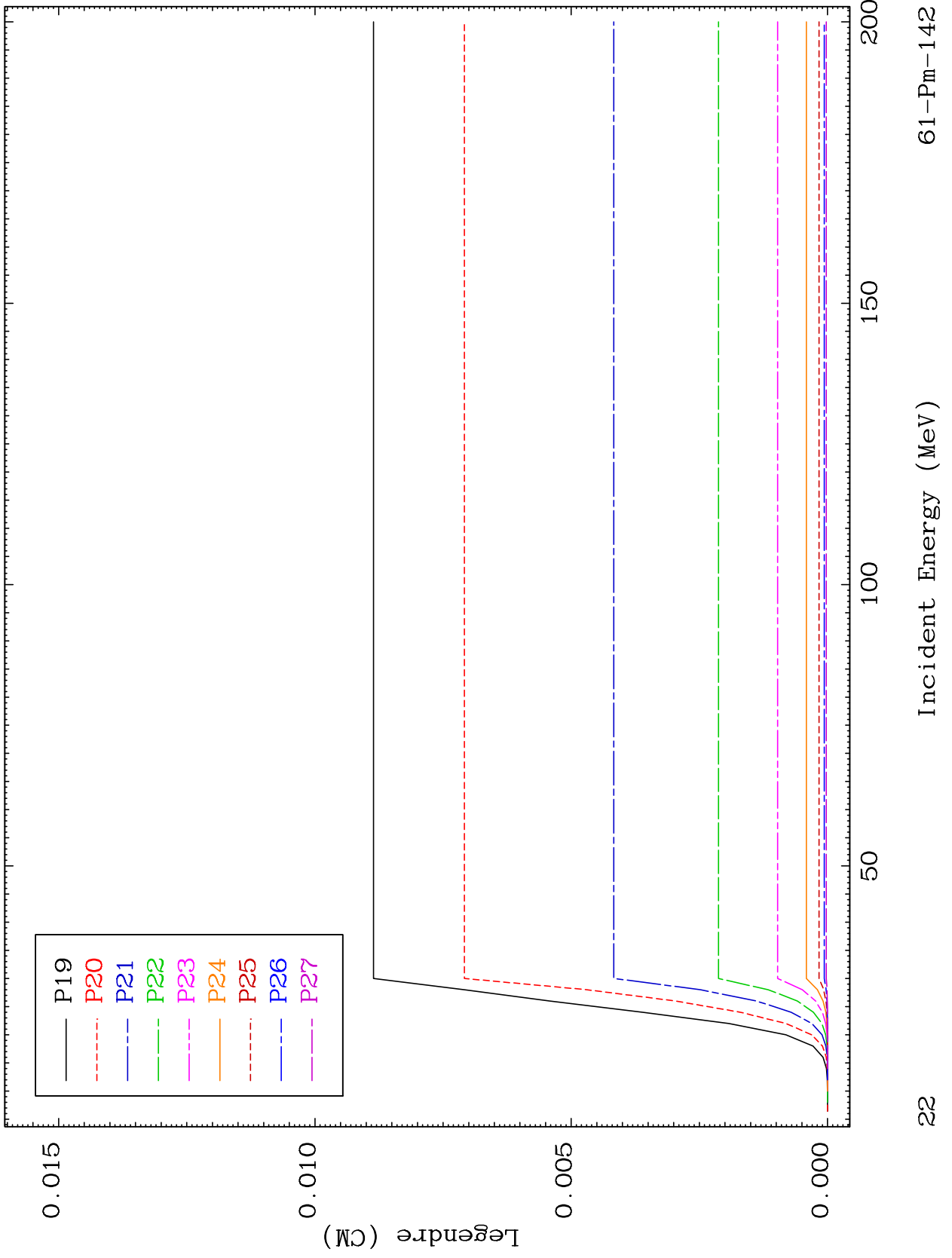
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



22

Incident Energy (MeV)

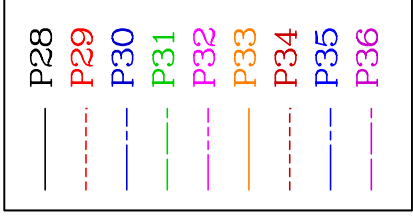
61-Pm-142

MAT 6134

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

61-Pm-142

$\times 10^{-6}$
8
6
4
2
0



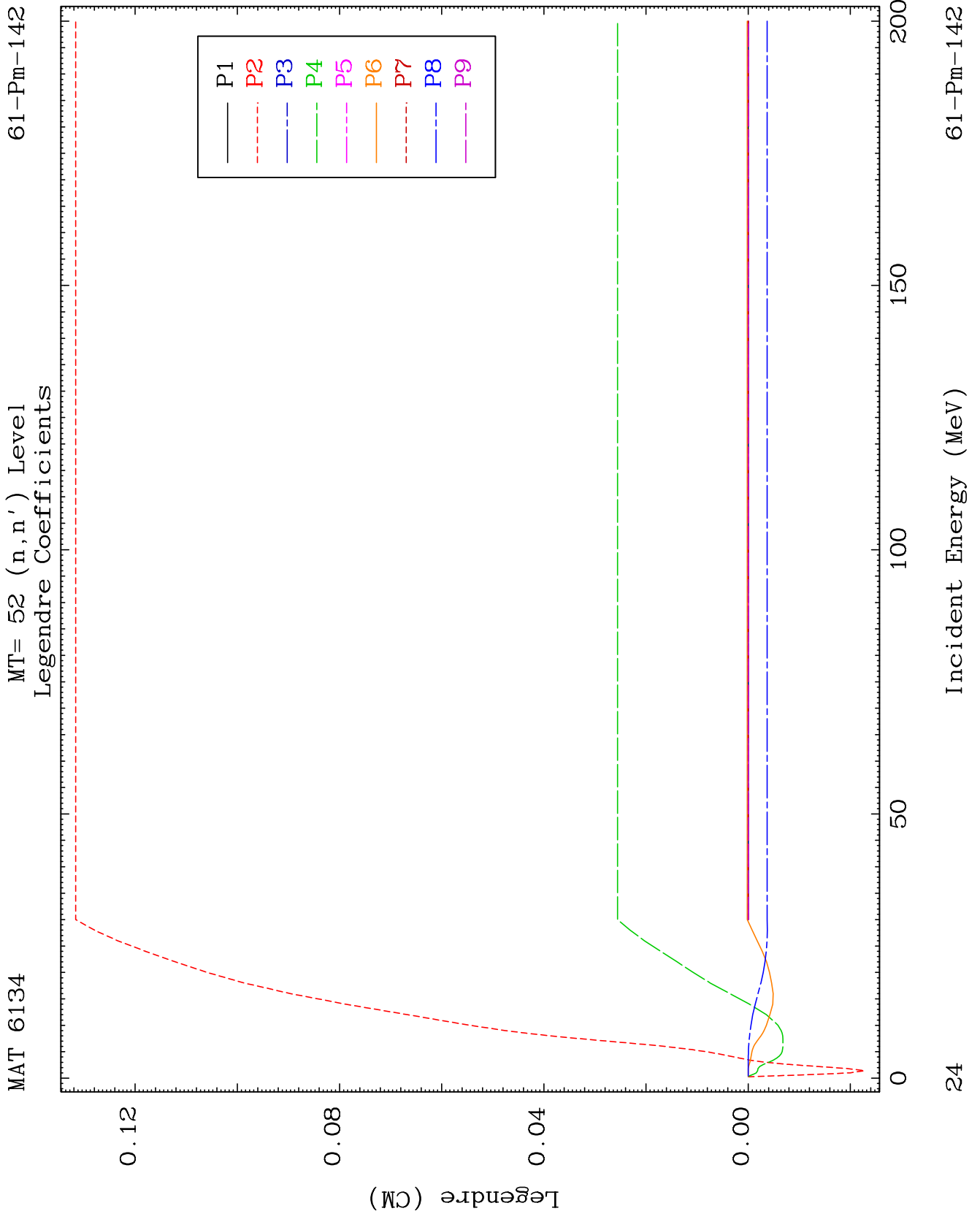
Legendre (CM)

50 100 150 200

23

Incident Energy (MeV)

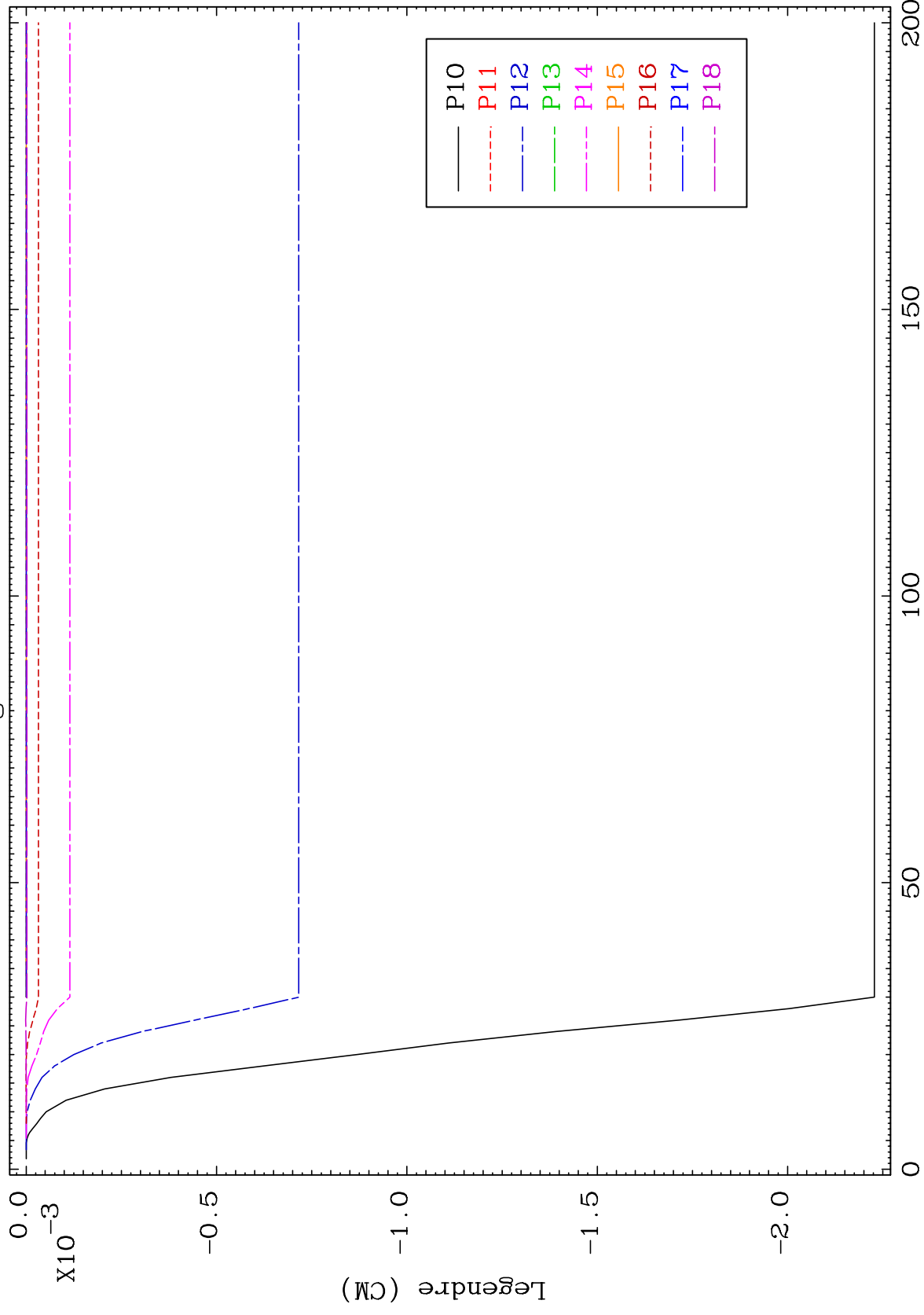
61-Pm-142



MAT 6134

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

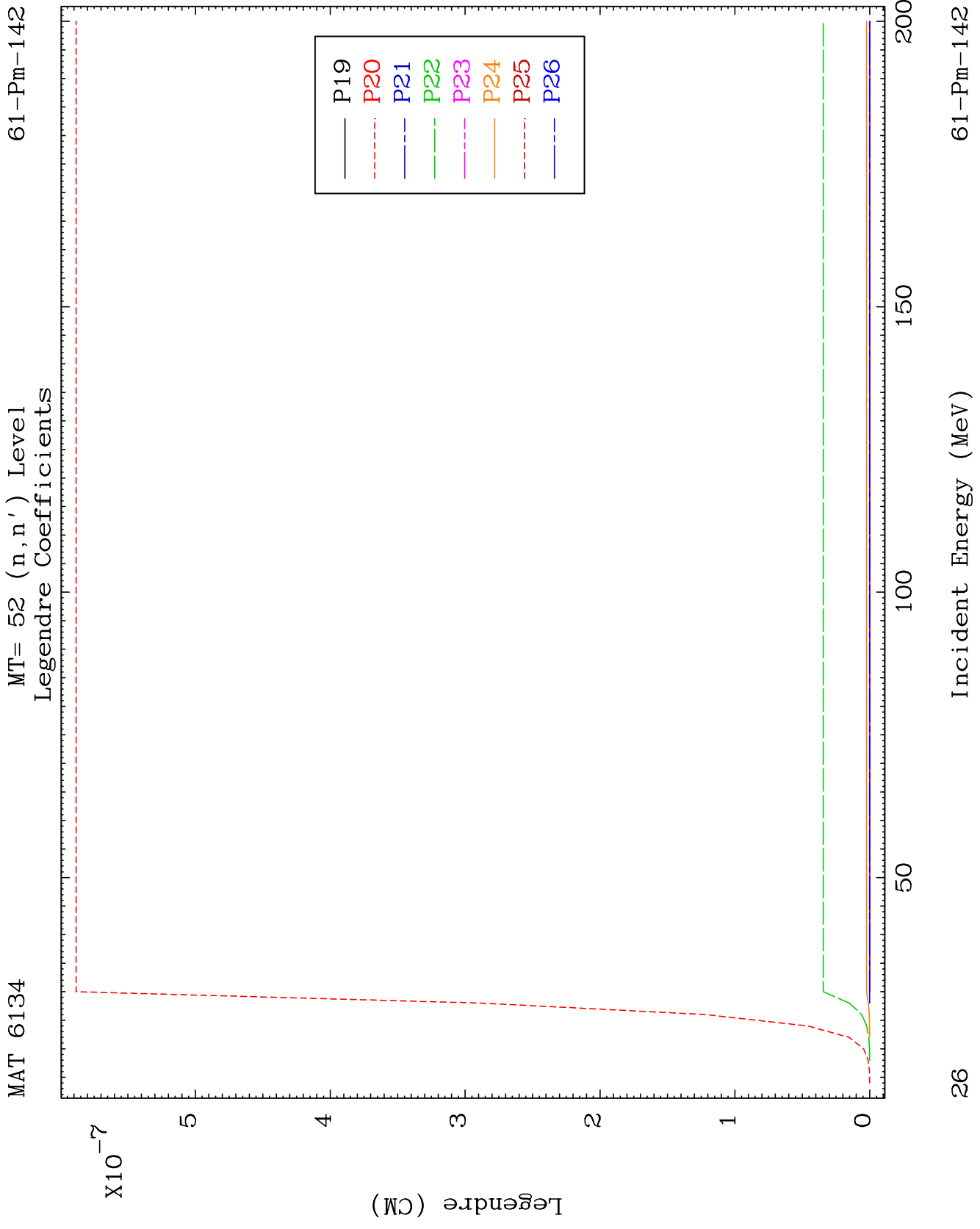
61-Pm-142



25

Incident Energy (MeV)

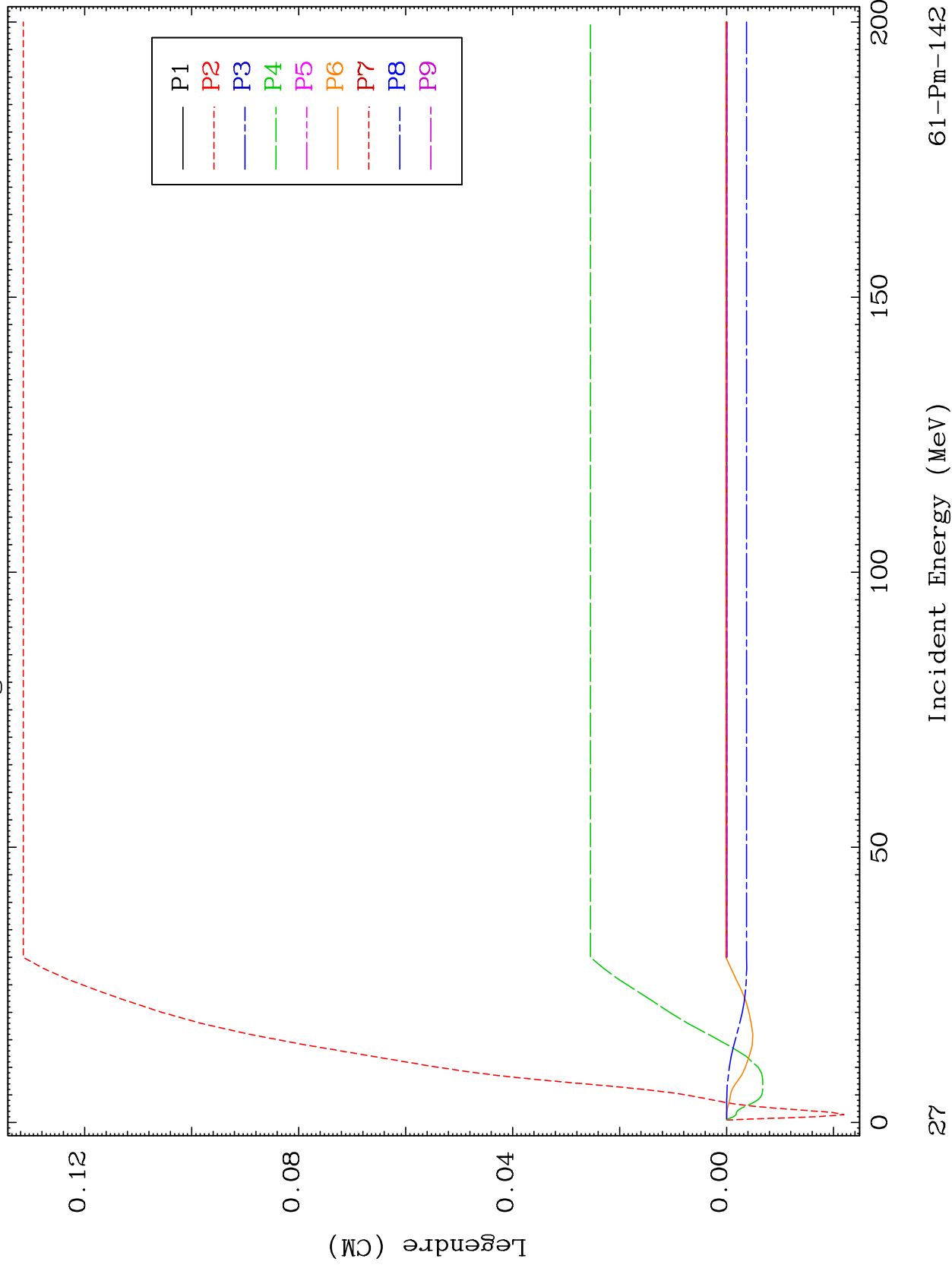
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MAT 6134

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

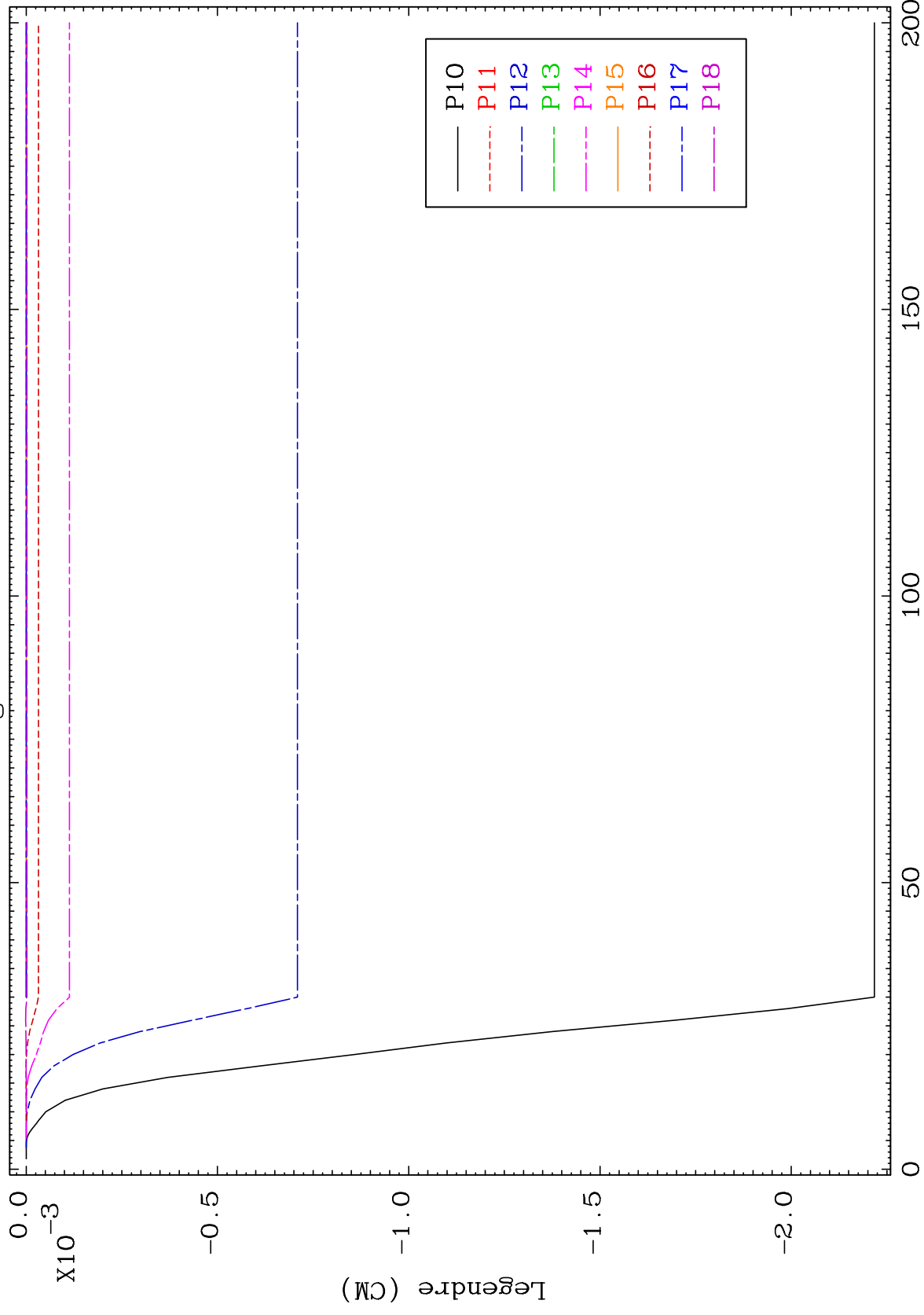
61-Pm-142



MAT 6134

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

61-Pm-142



28

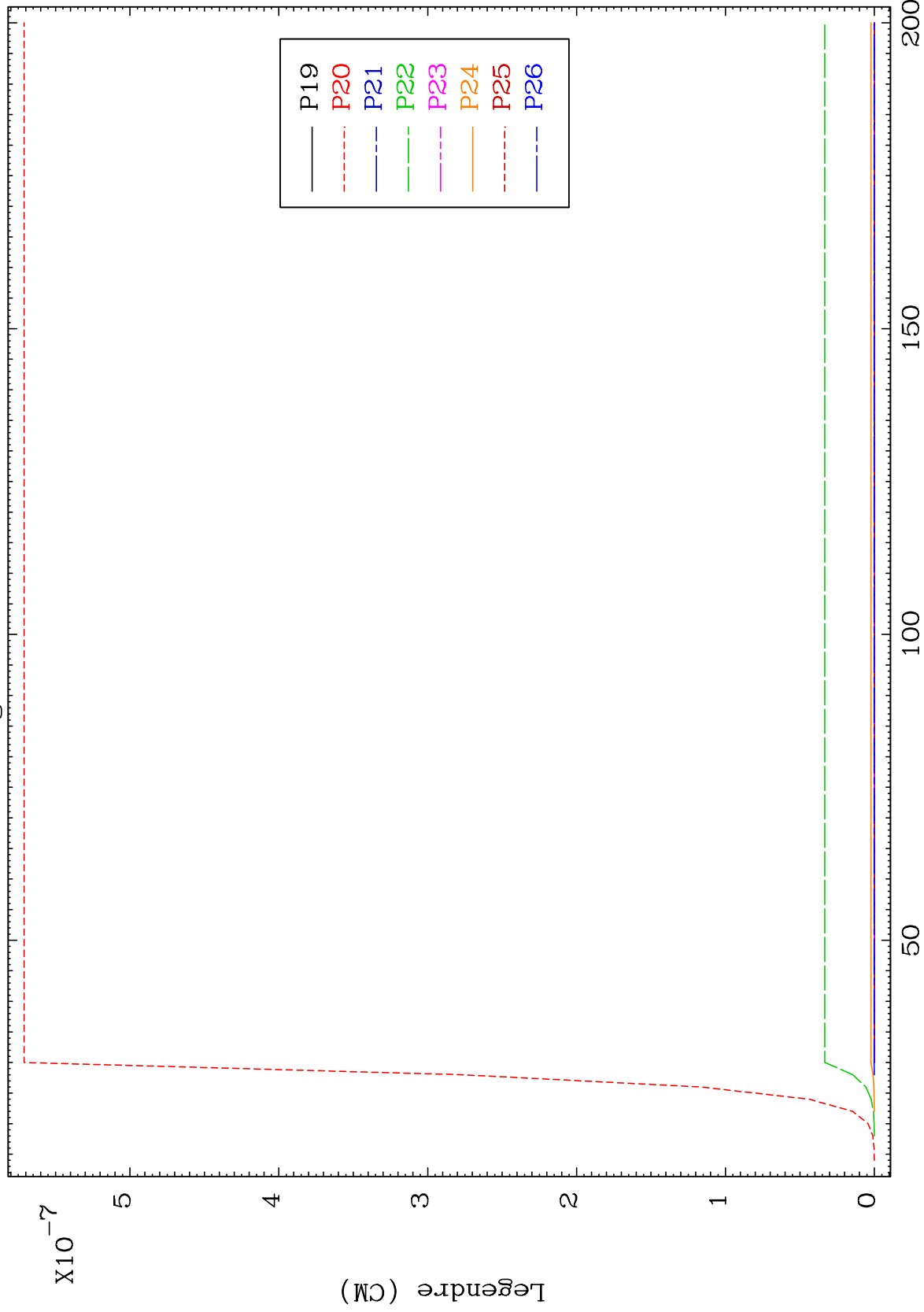
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



29

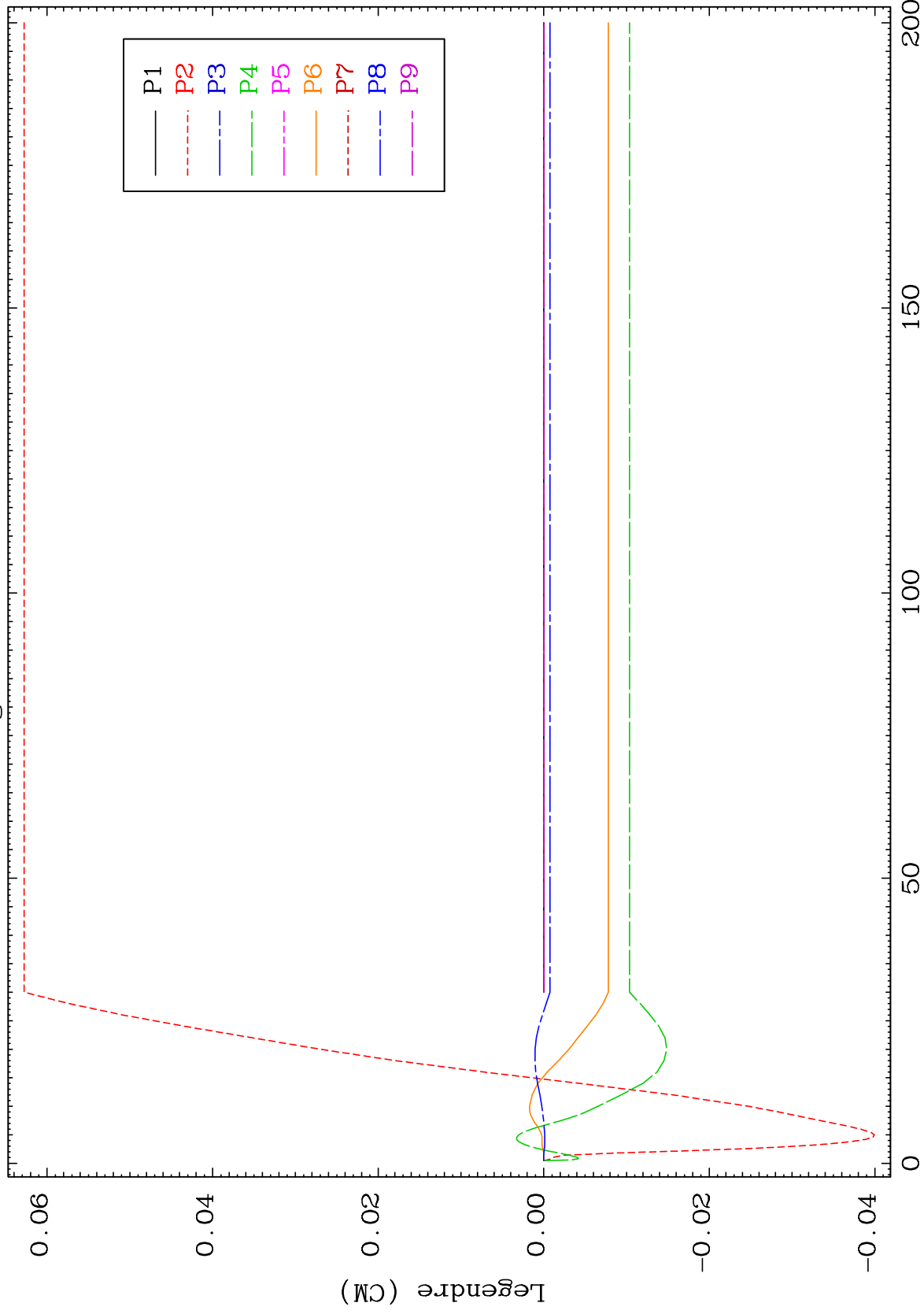
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



61-Pm-142

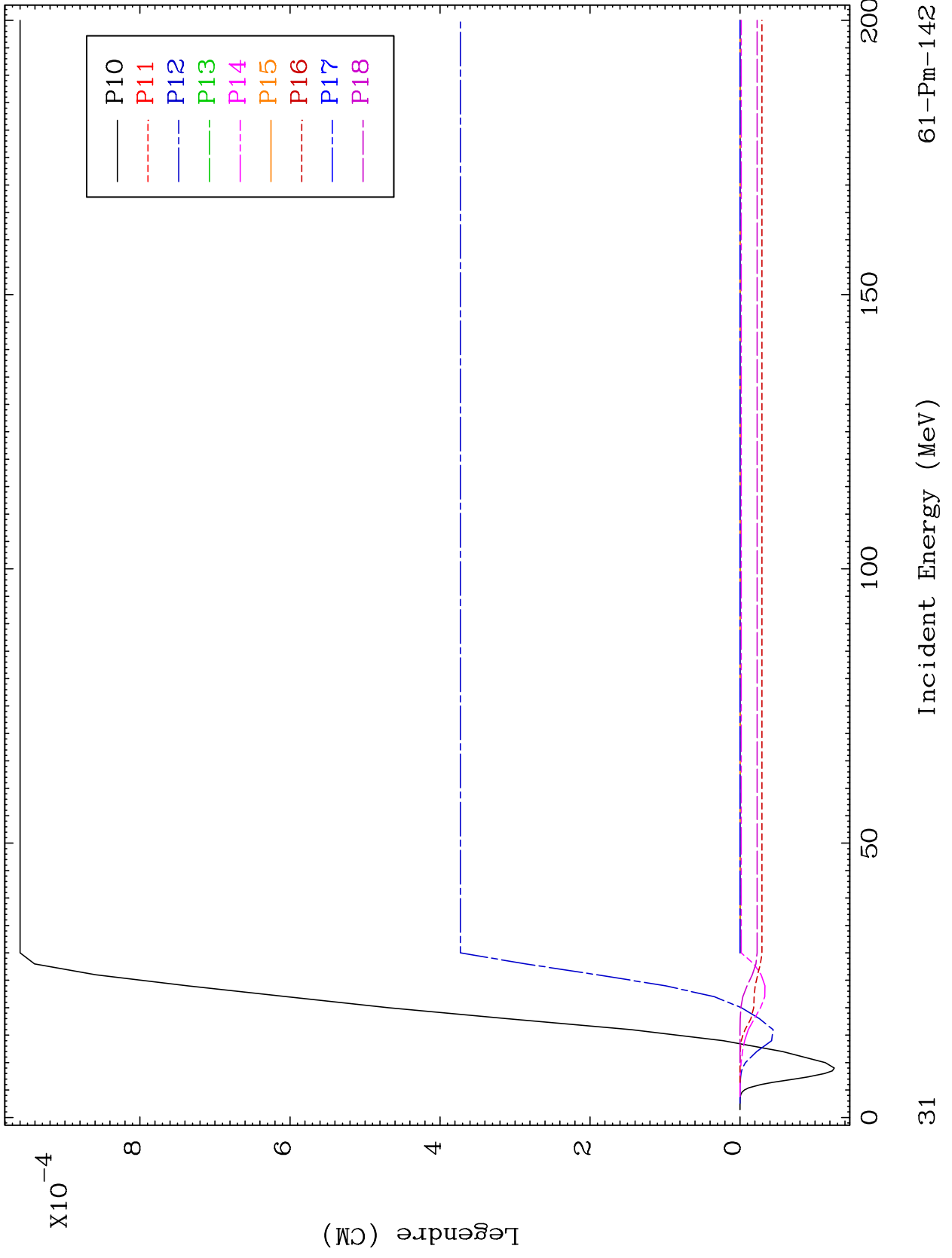
Incident Energy (MeV)

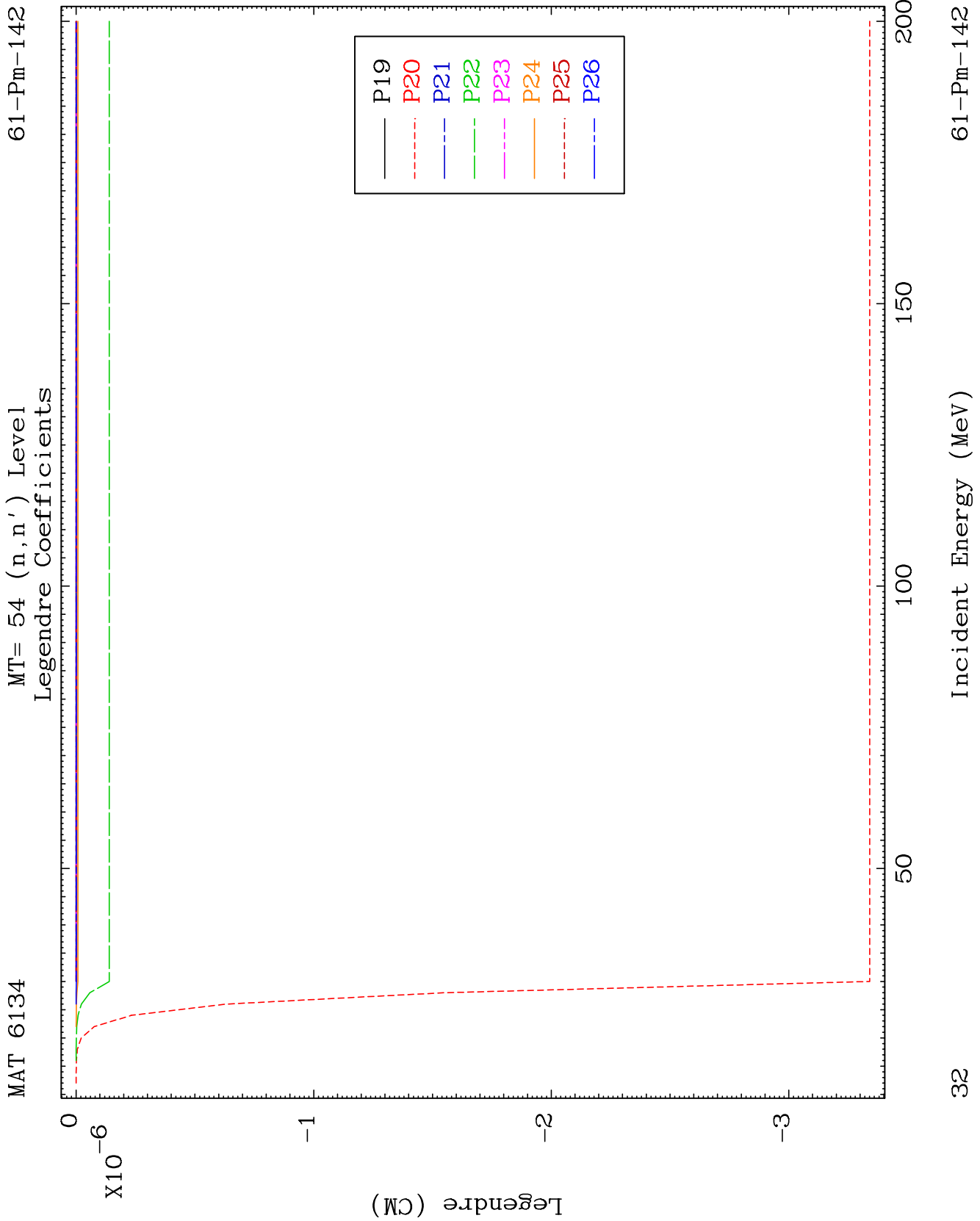
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MAT 6134

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

61-Pm-142

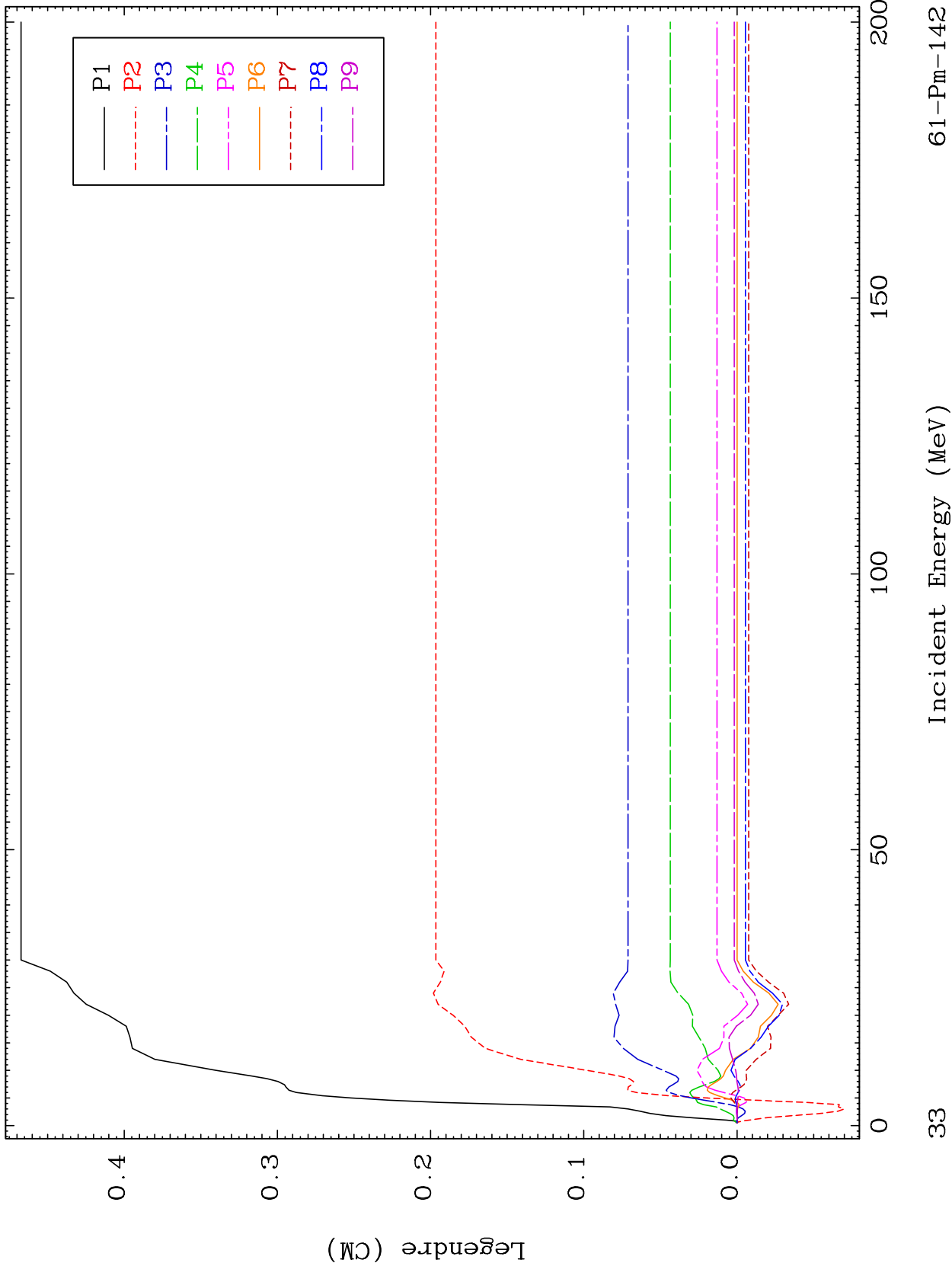




MAT 6134

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

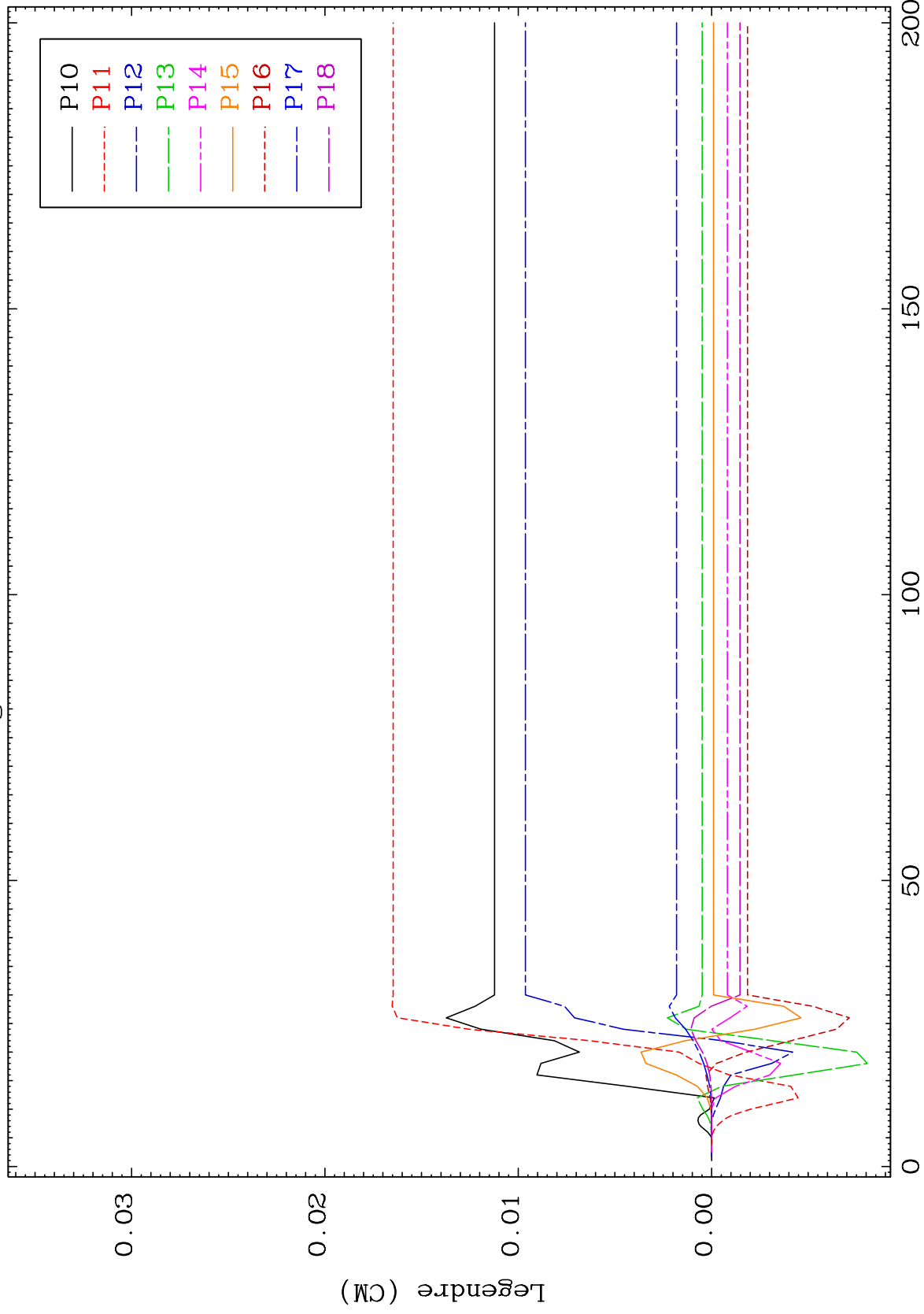
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MAT 6134

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

61-Pm-142



34

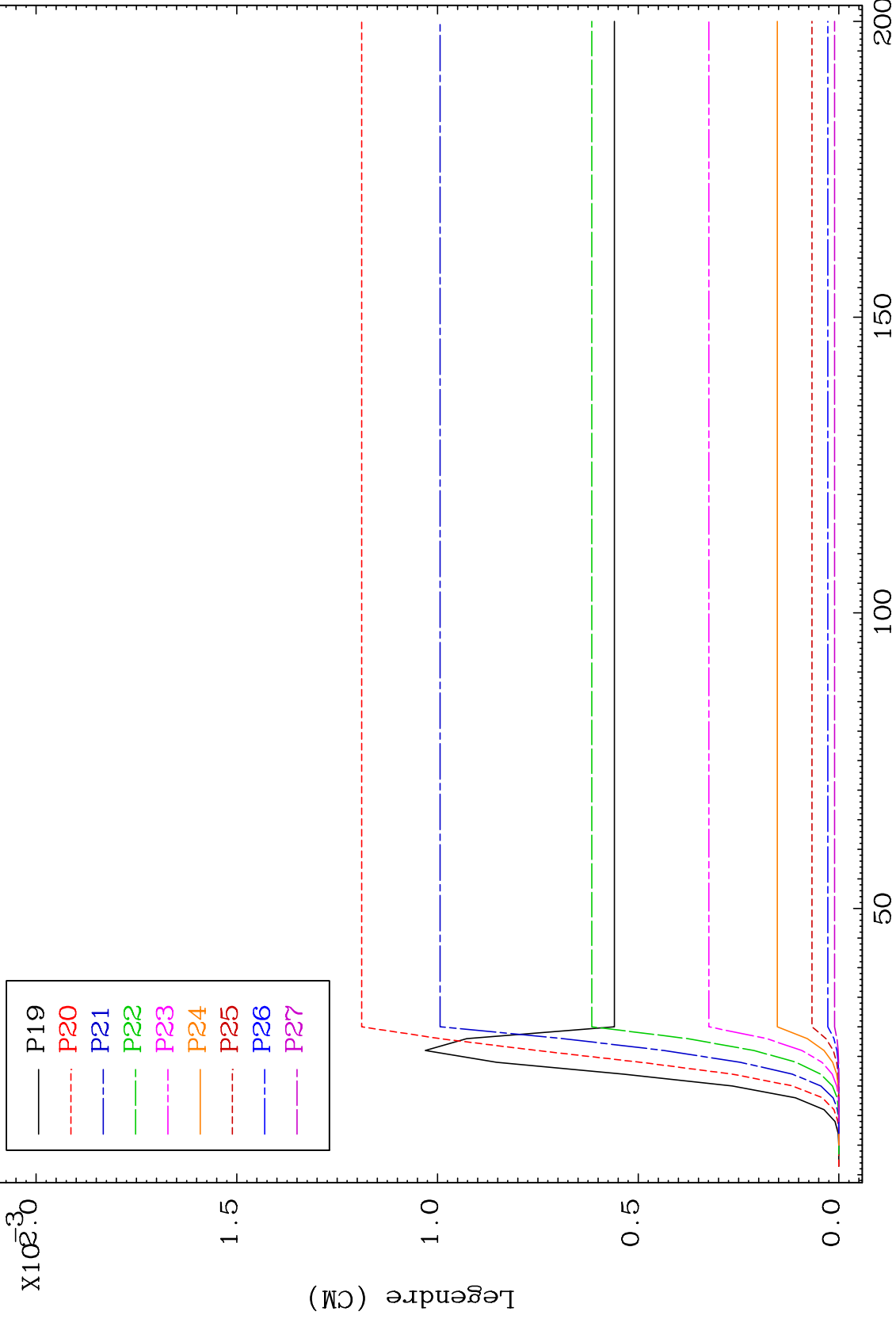
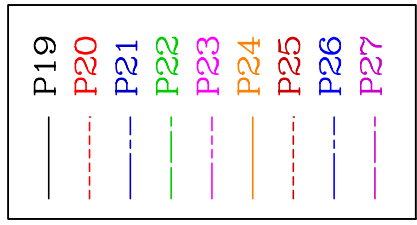
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



35

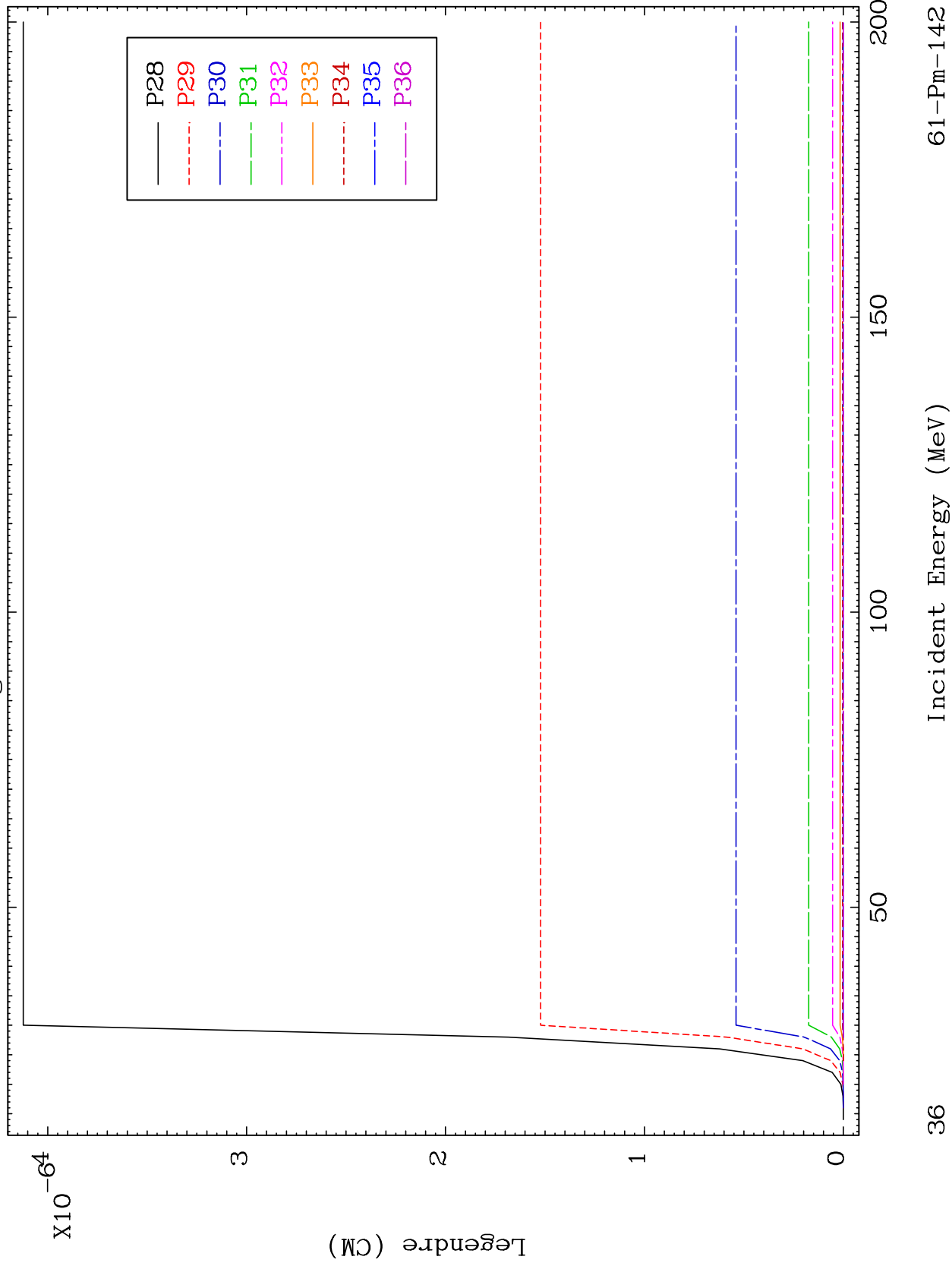
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



36

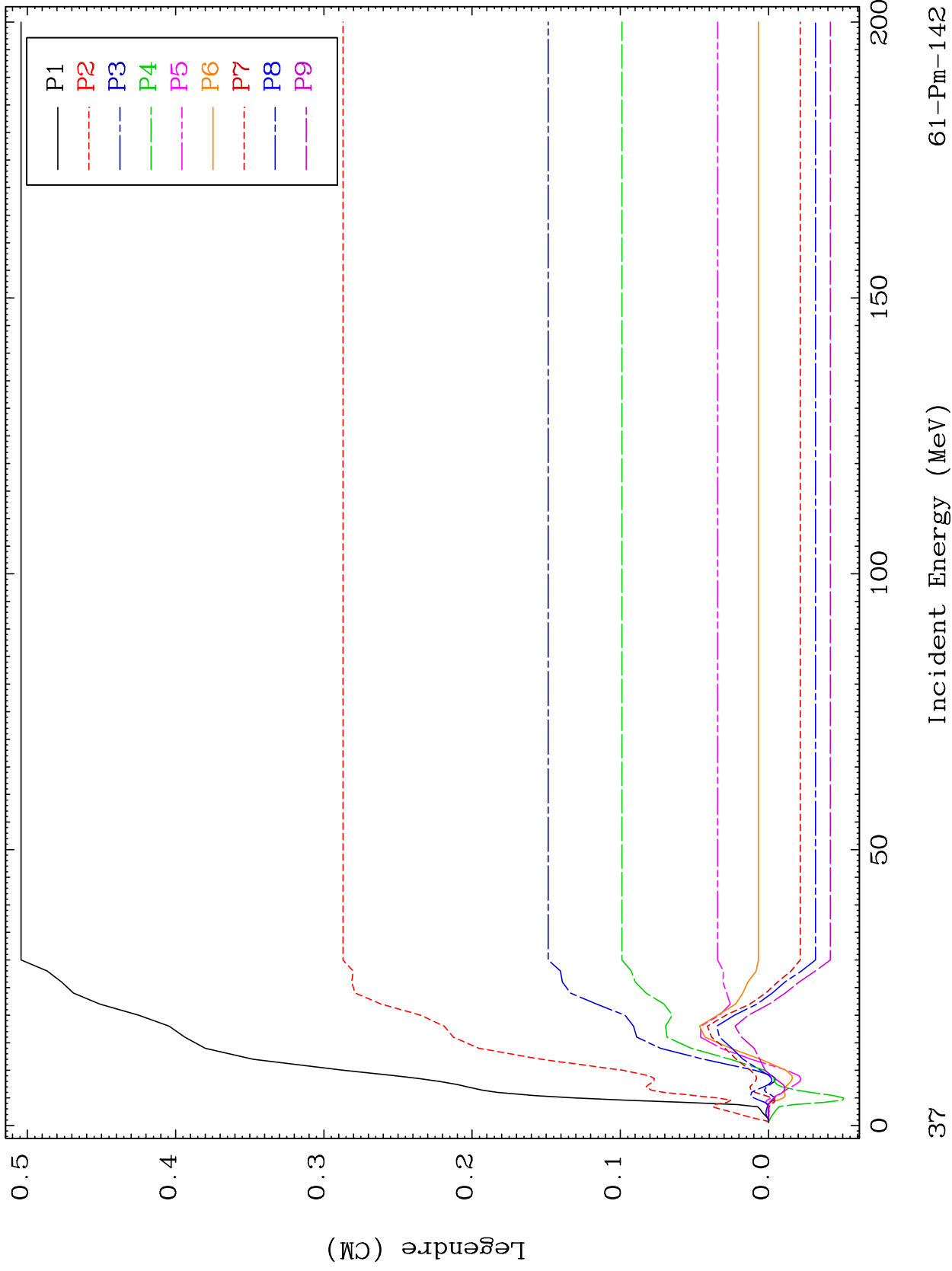
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

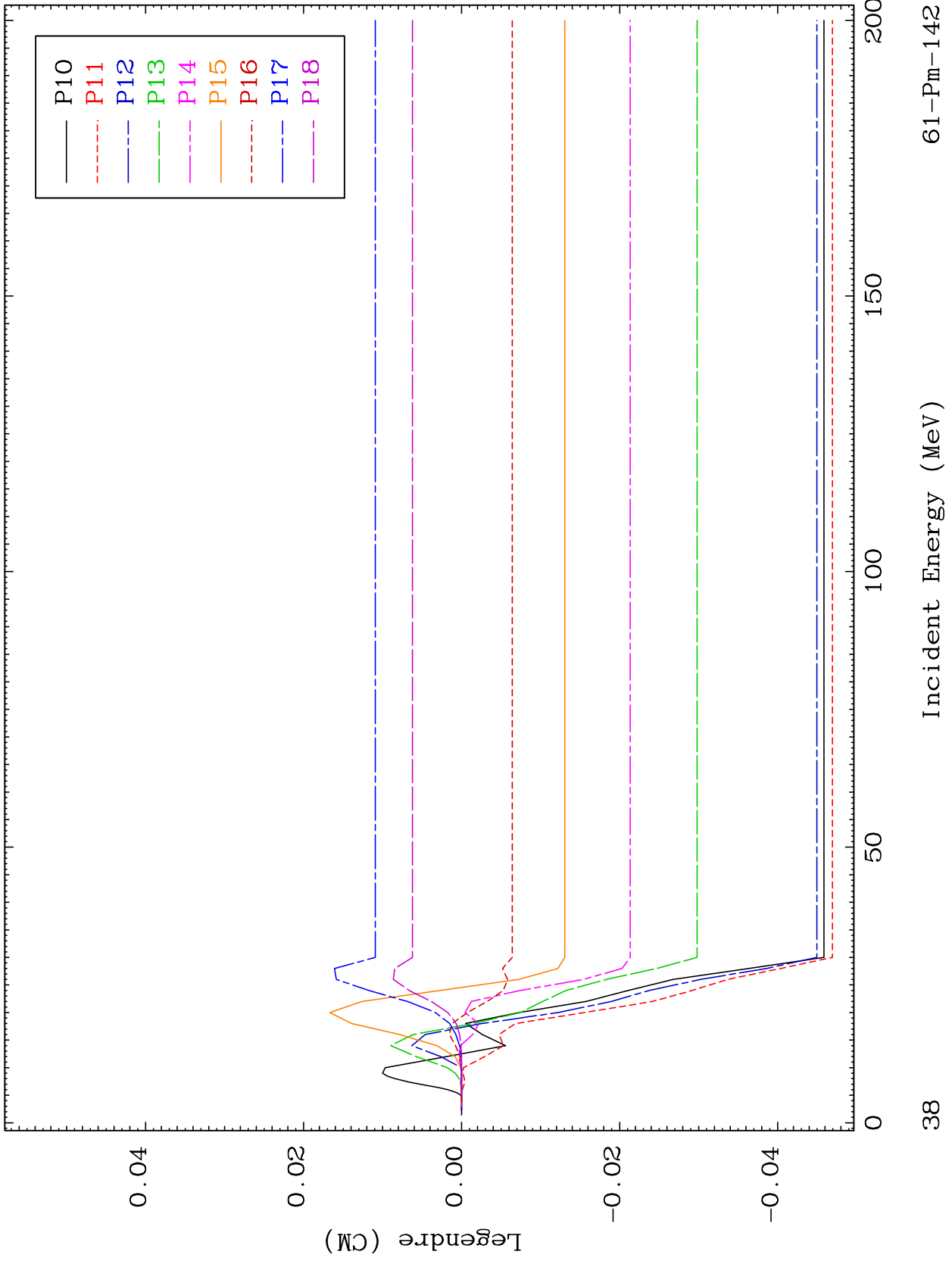
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MAT 6134

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

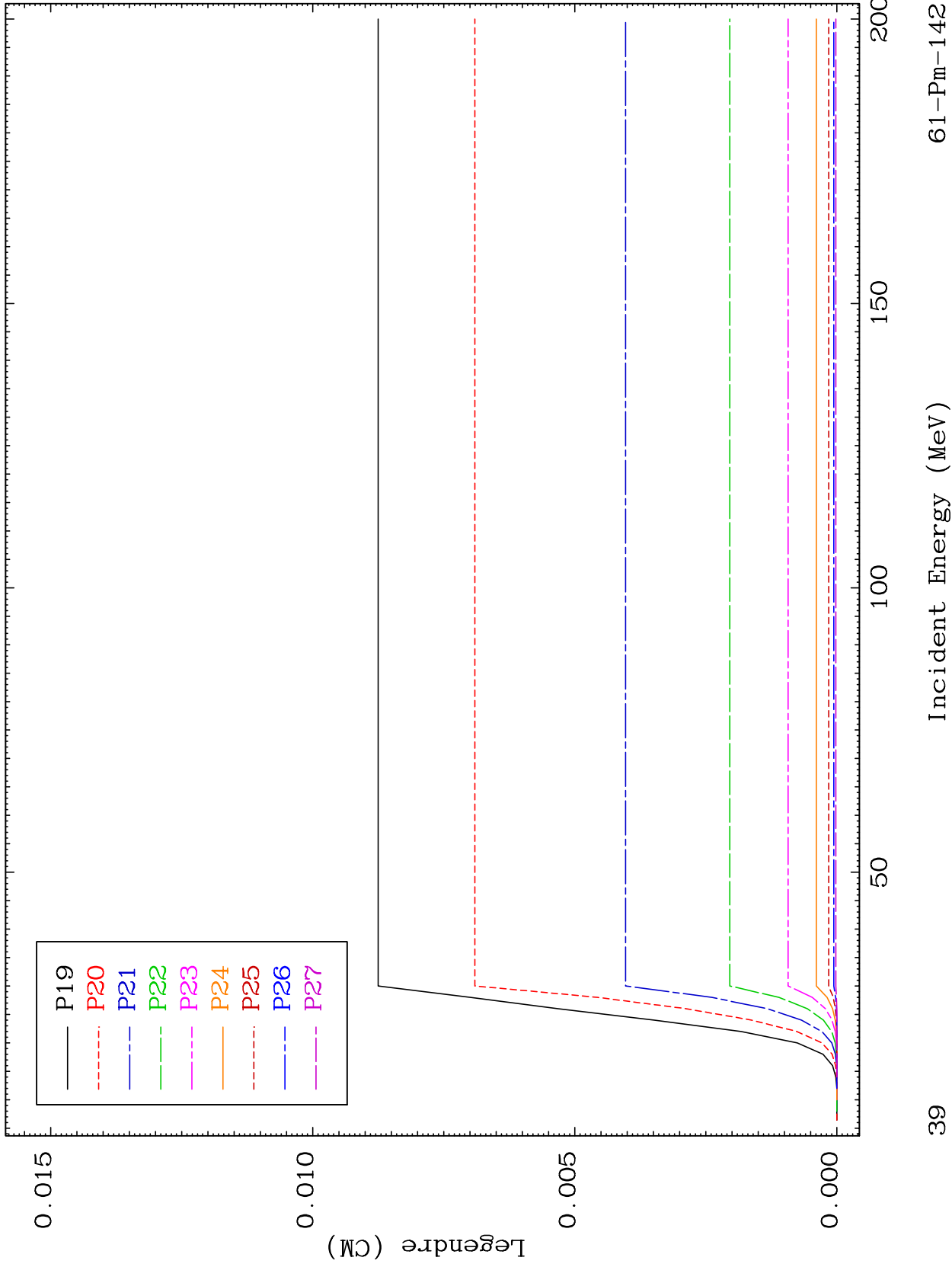
61-Pm-142



61-Pm-142

Incident Energy (MeV)

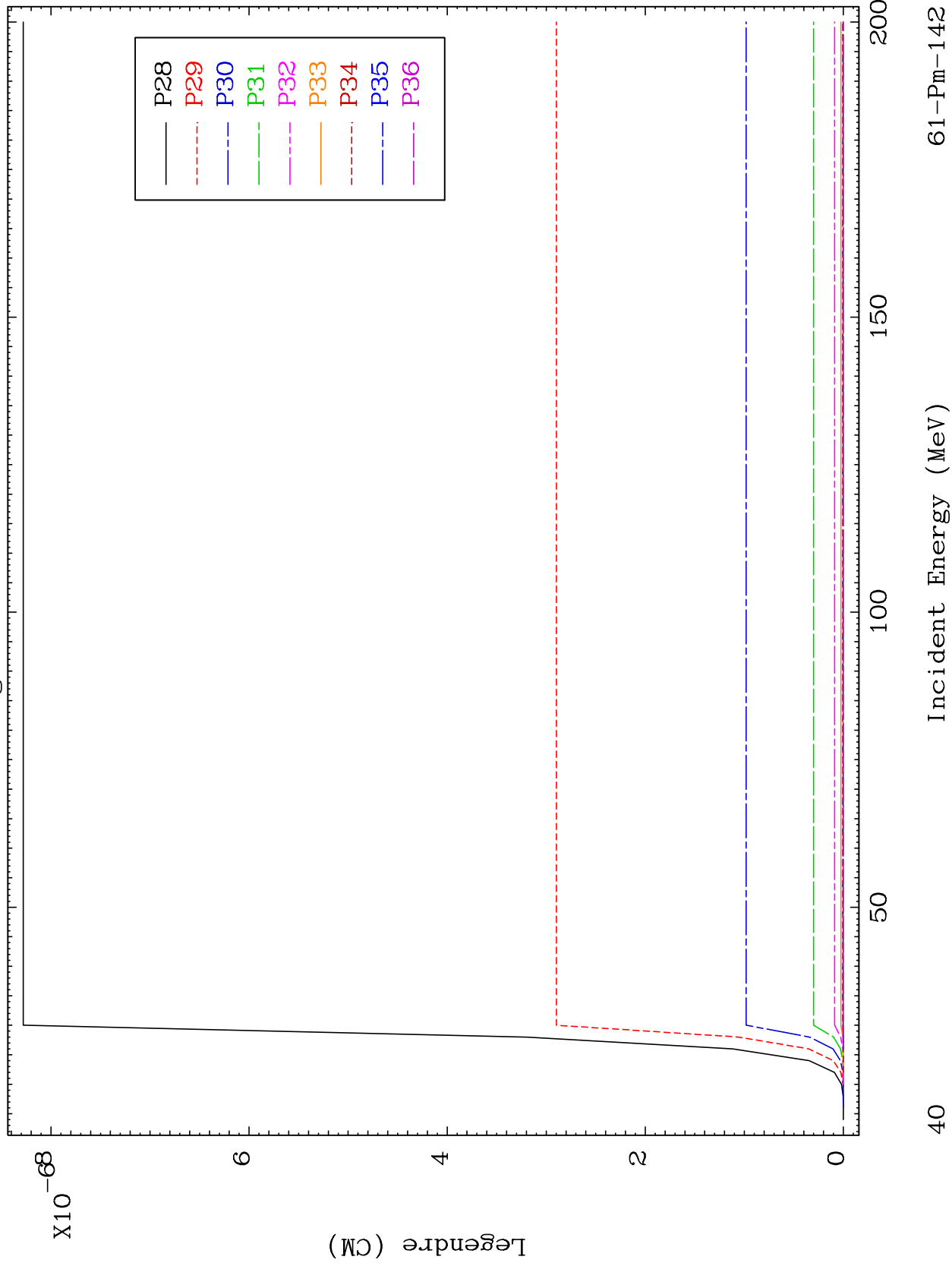
38



MAT 6134

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

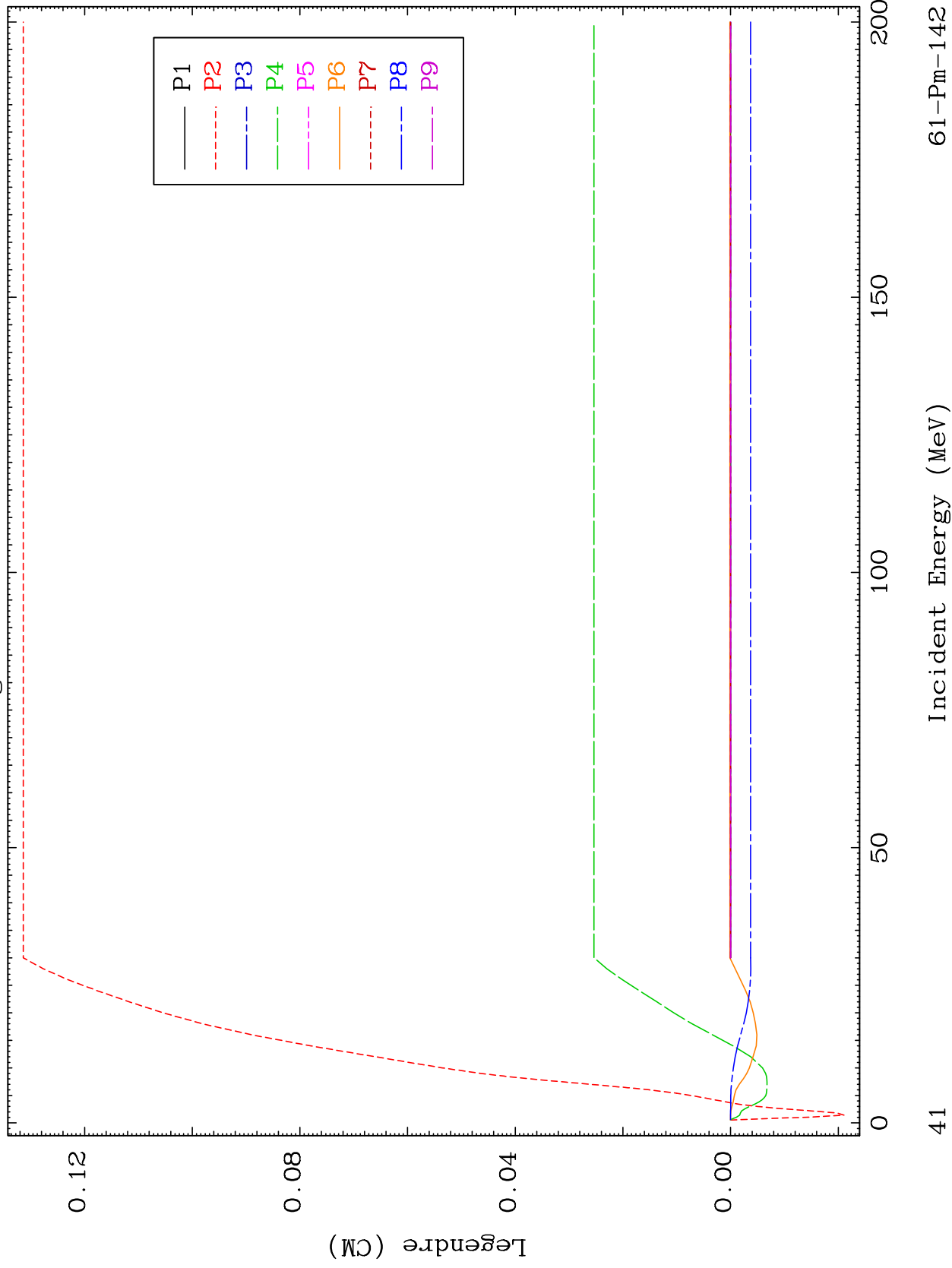
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MAT 6134

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

61-Pm-142



61-Pm-142

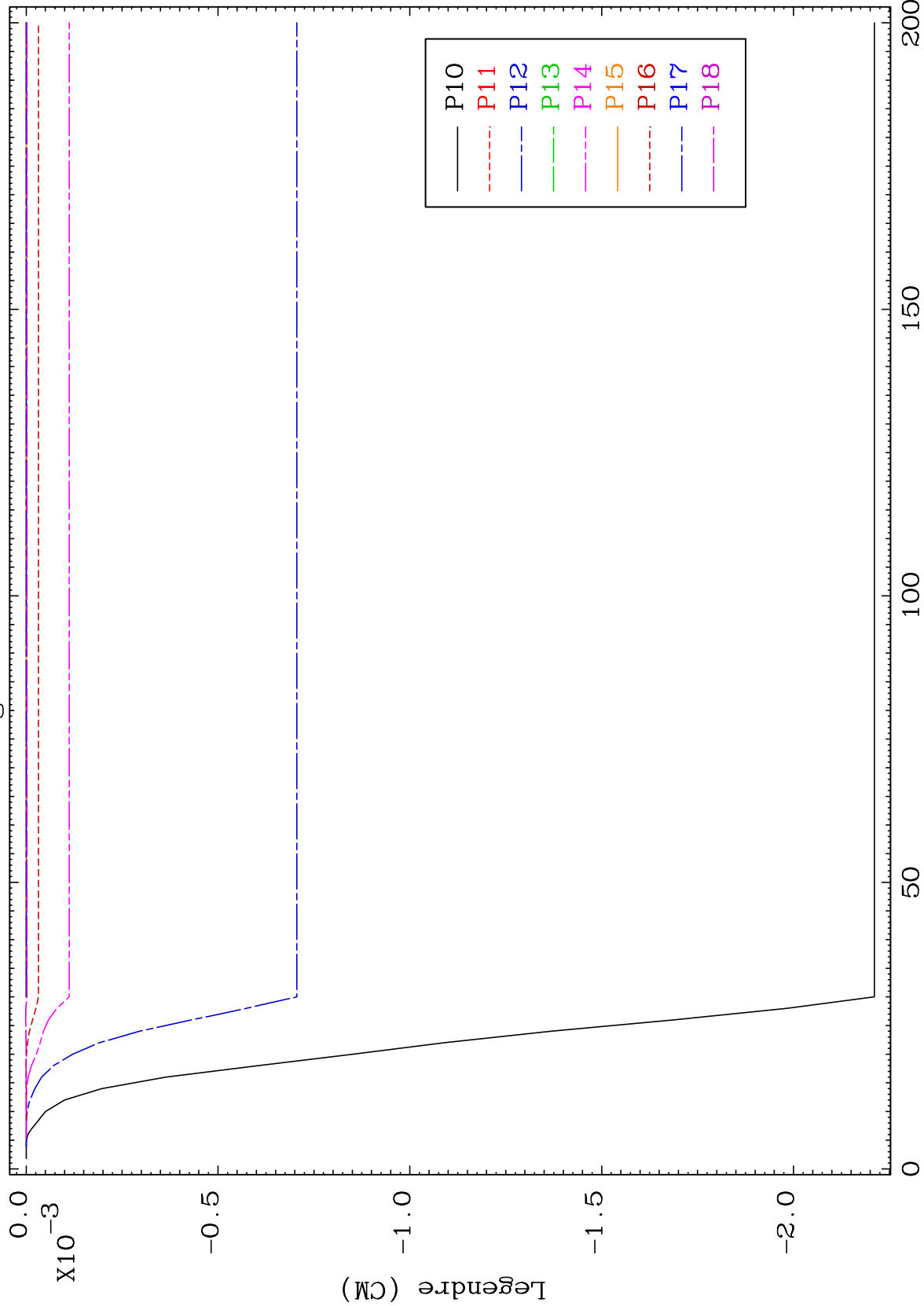
Incident Energy (MeV)

41

MAT 6134

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

61-Pm-142



42

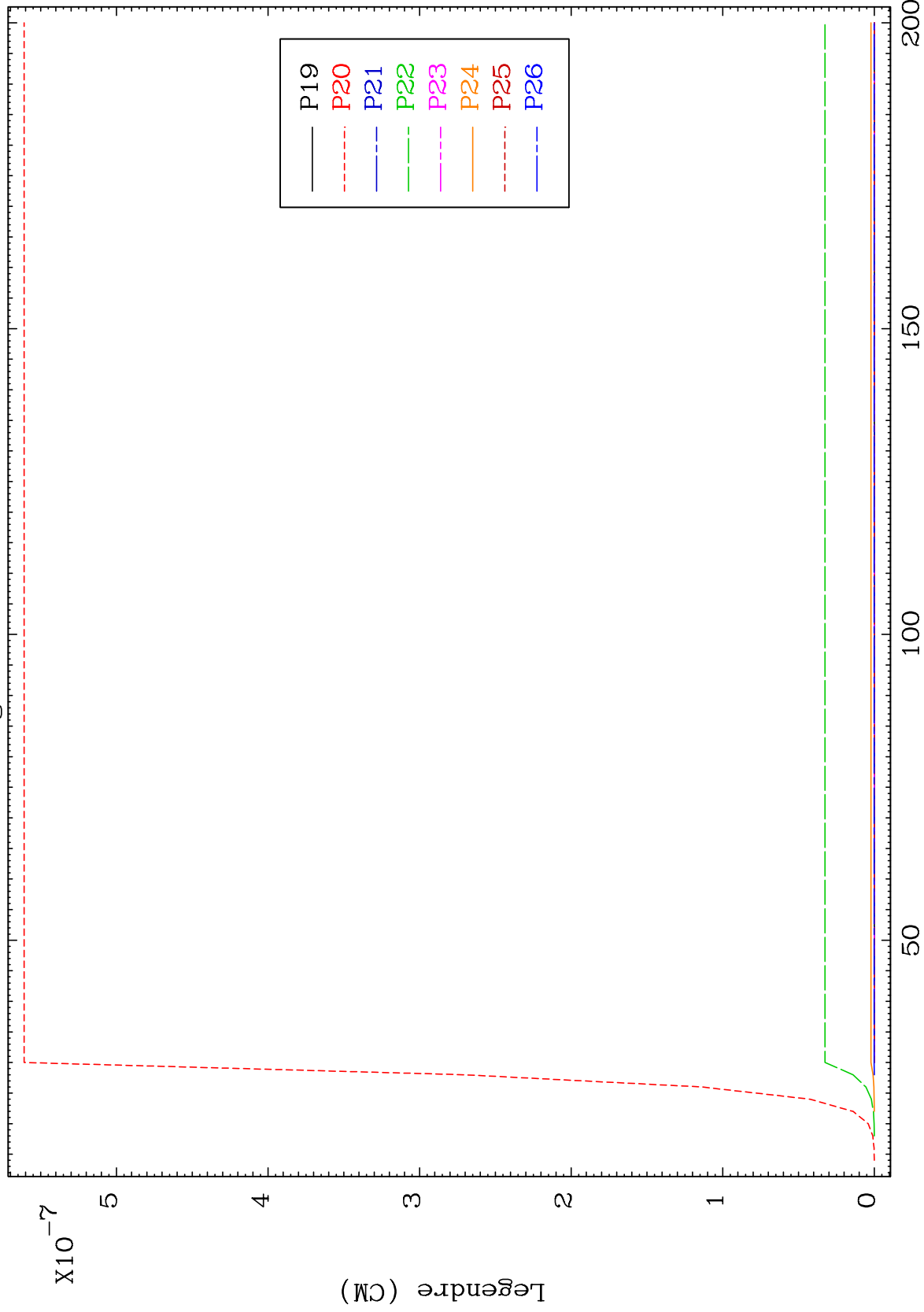
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



43

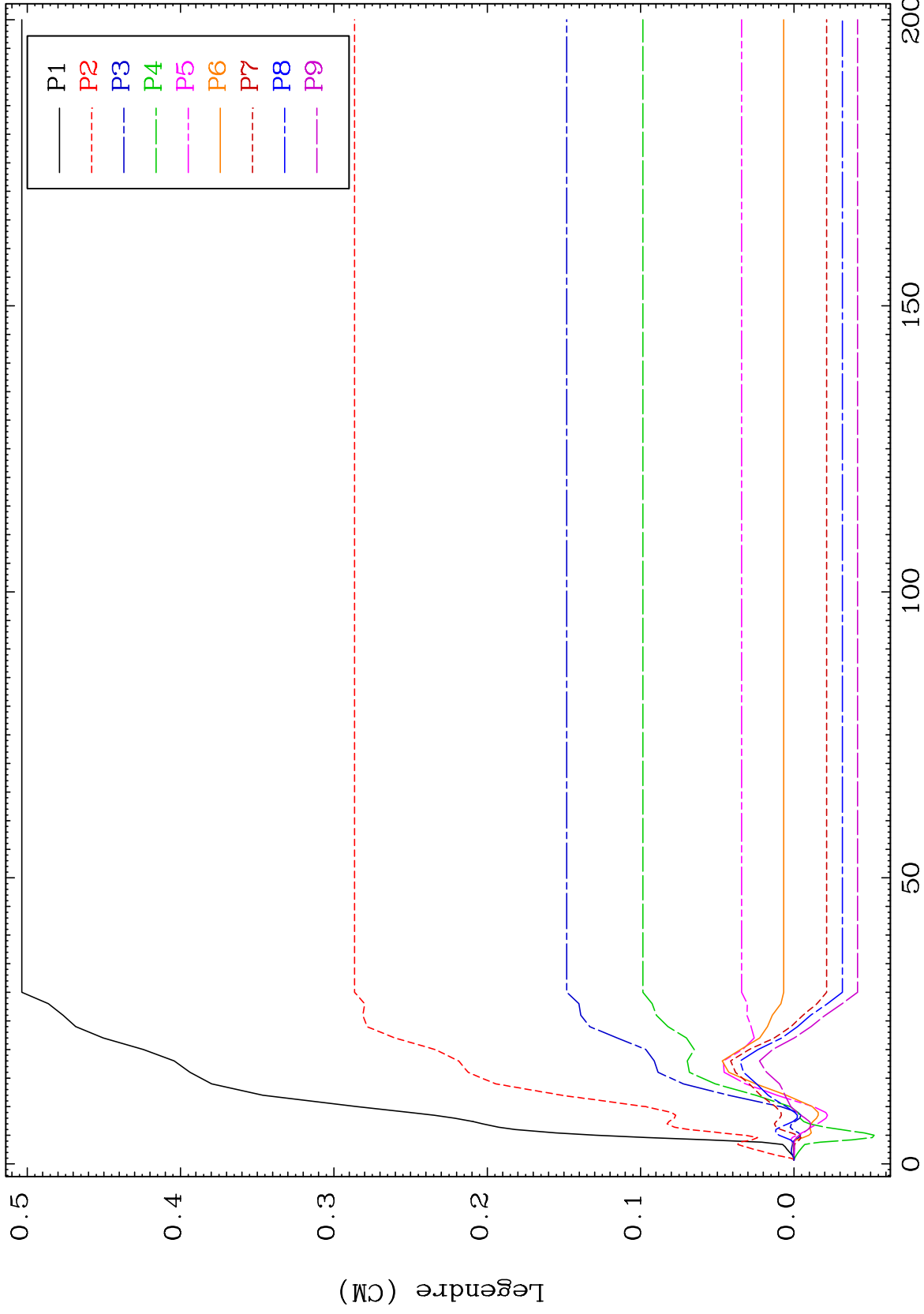
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



44

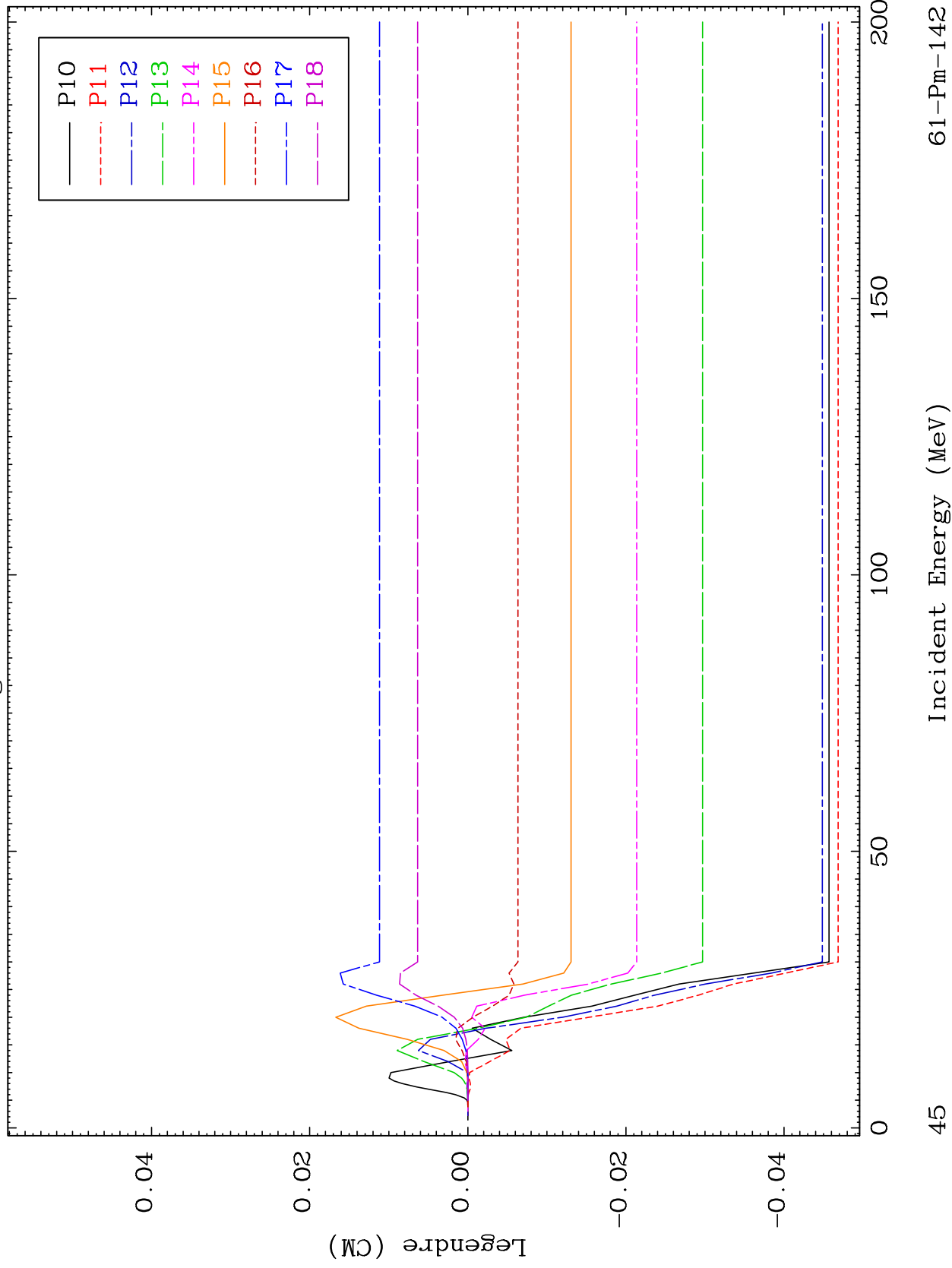
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



61-Pm-142

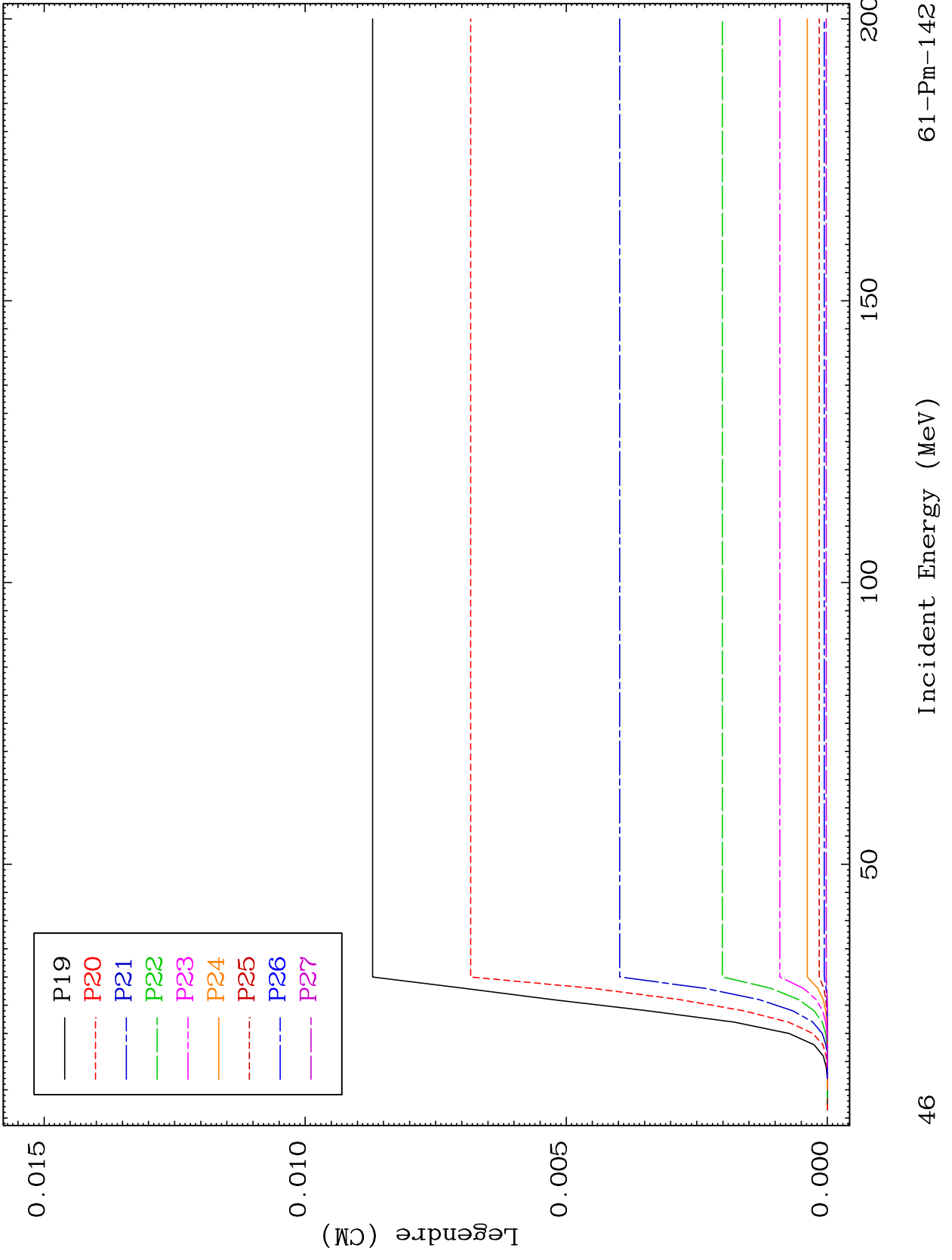
Incident Energy (MeV)

45

MAT 6134

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

61-Pm-142



46

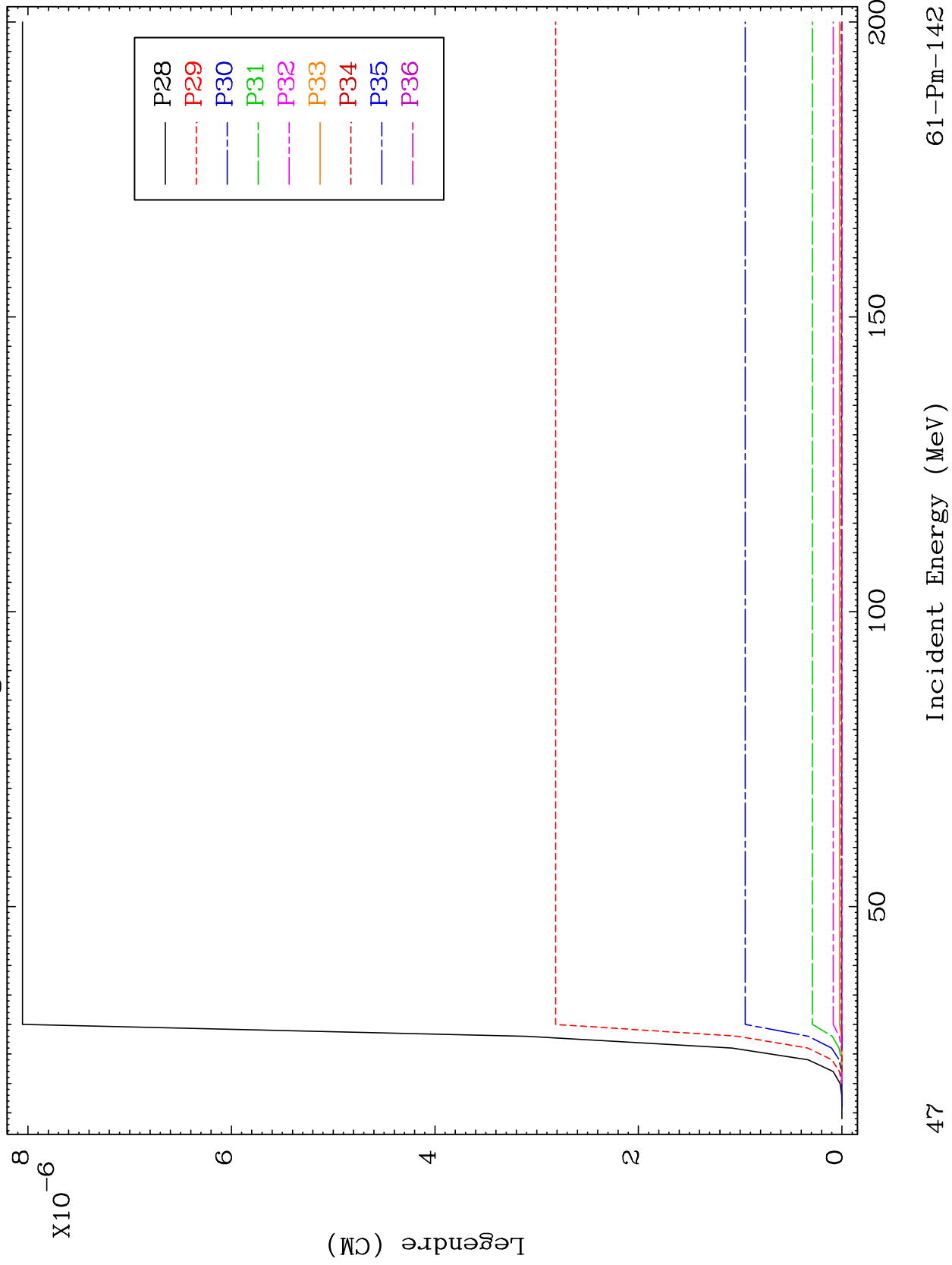
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

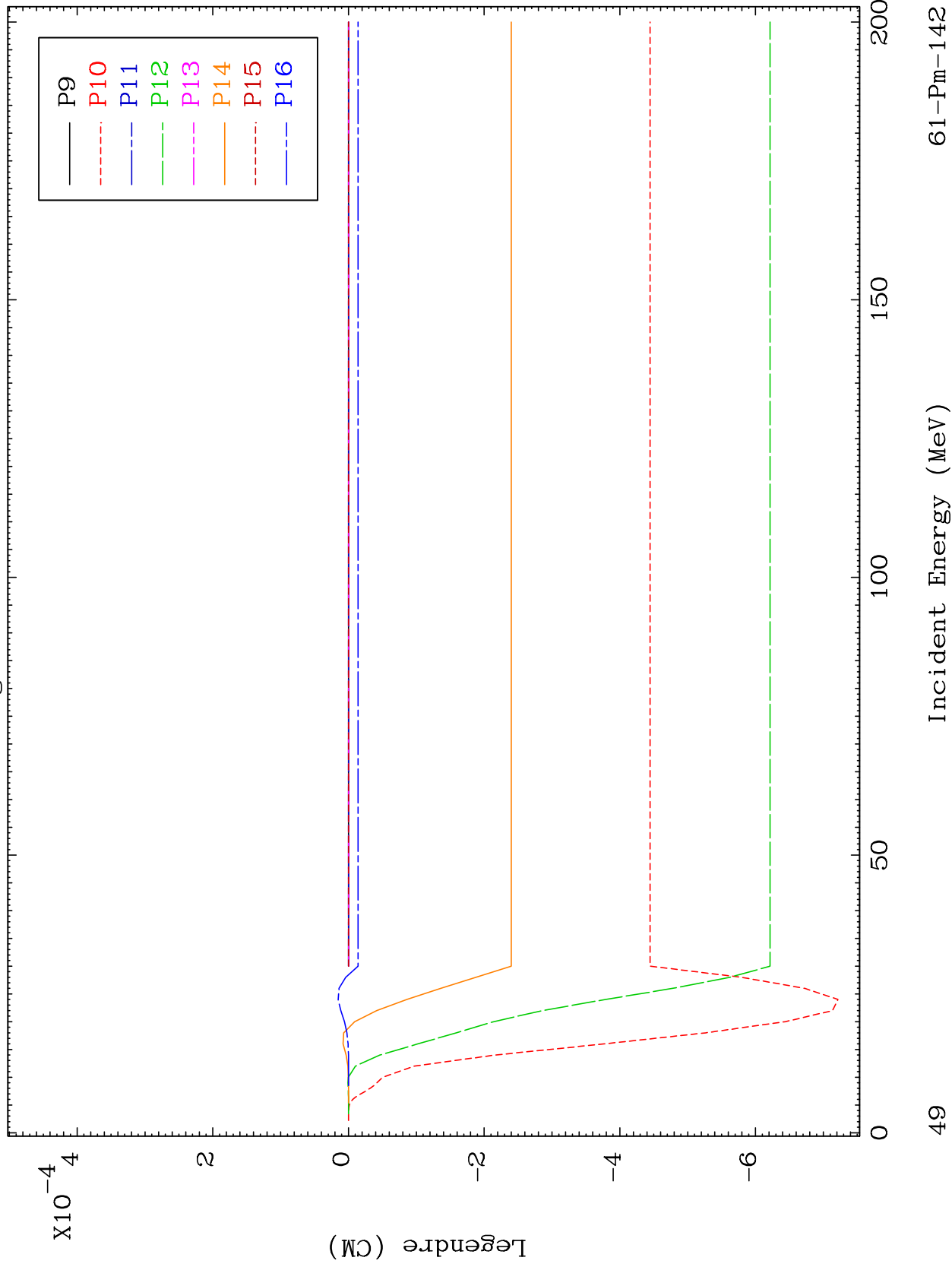
61-Pm-142



MAT 6134

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

61-Pm-142



61-Pm-142

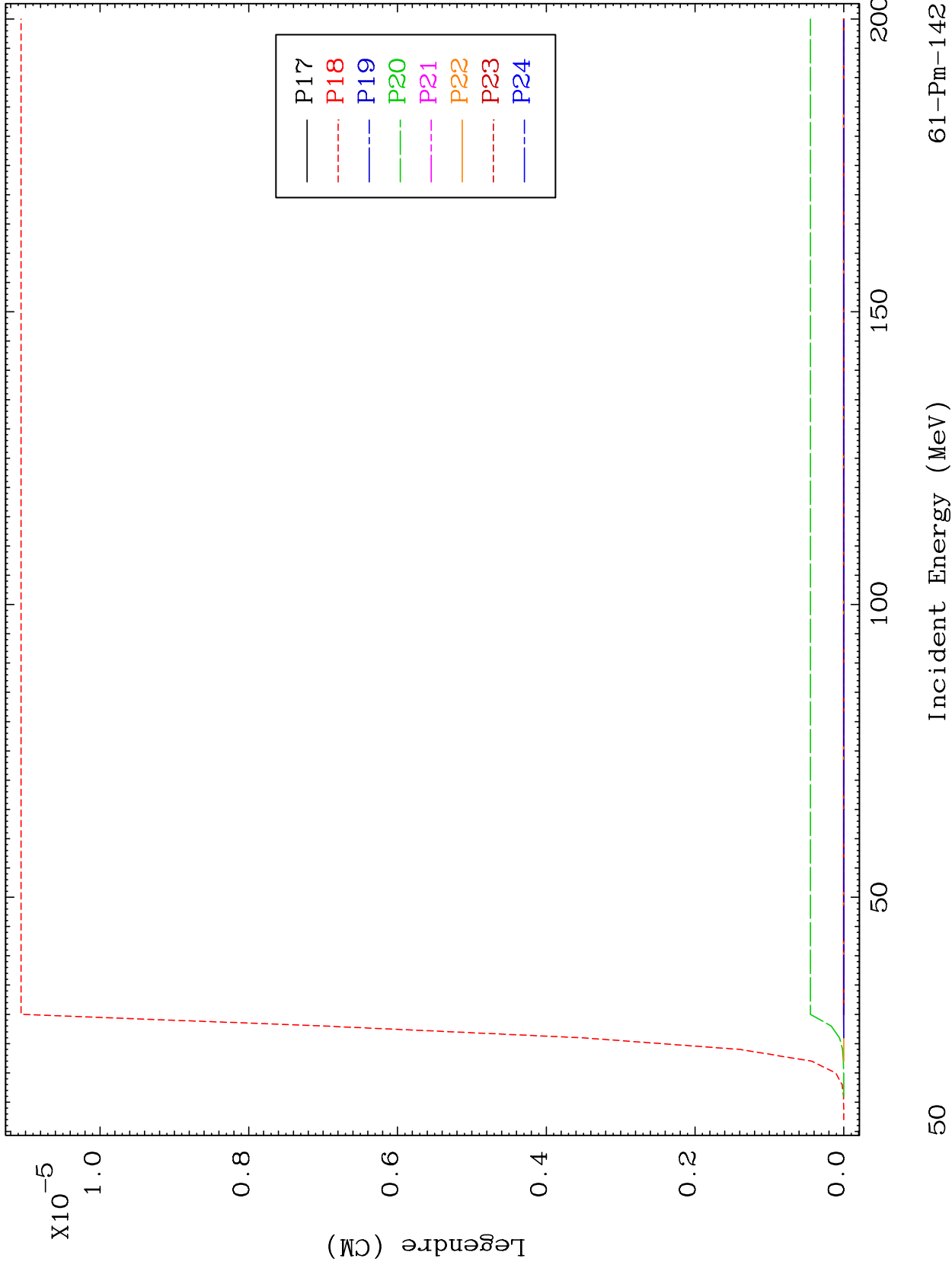
Incident Energy (MeV)

49

MAT 6134

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

61-Pm-142



61-Pm-142

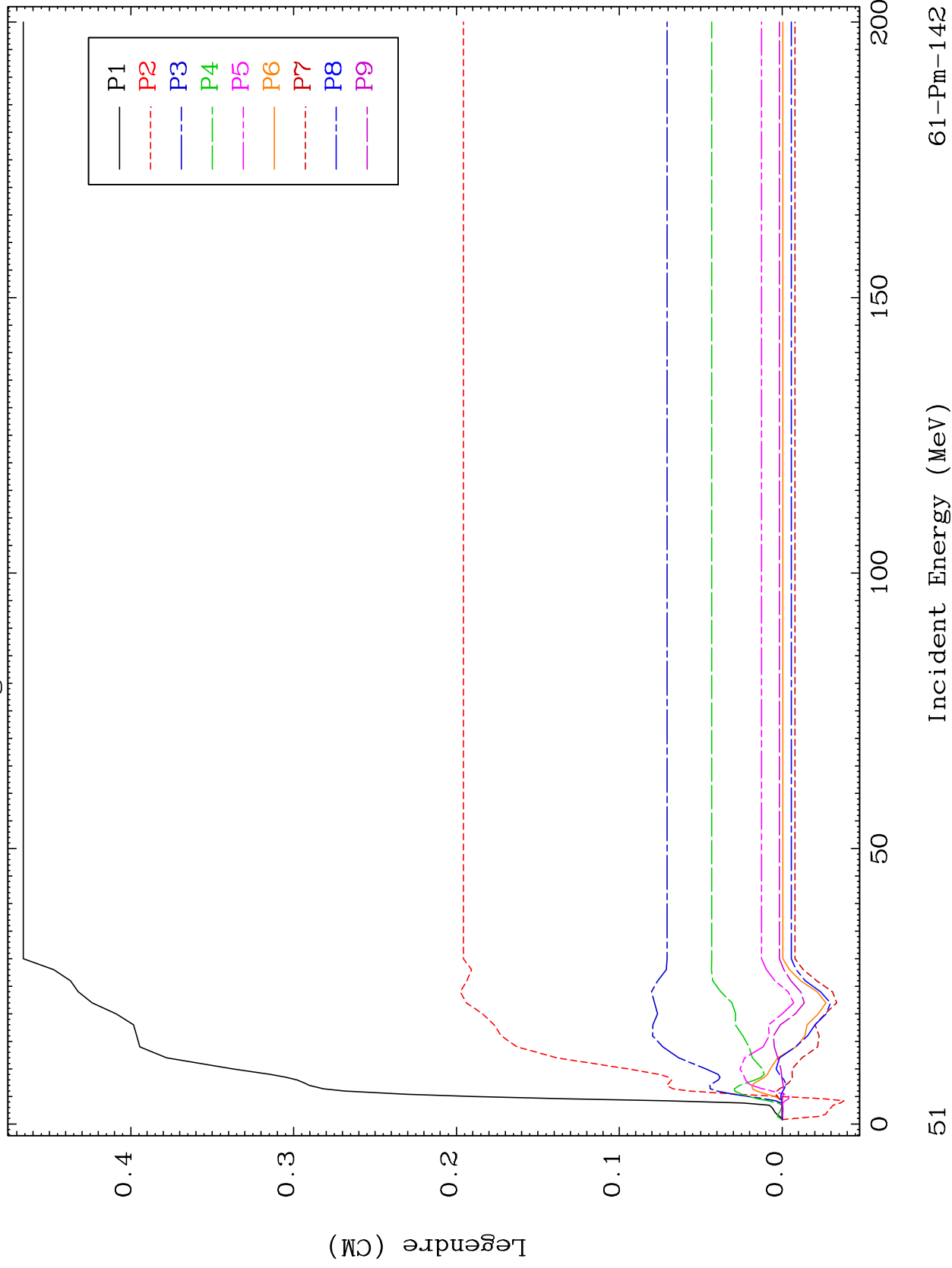
Incident Energy (MeV)

50

MAT 6134

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

61-Pm-142



61-Pm-142

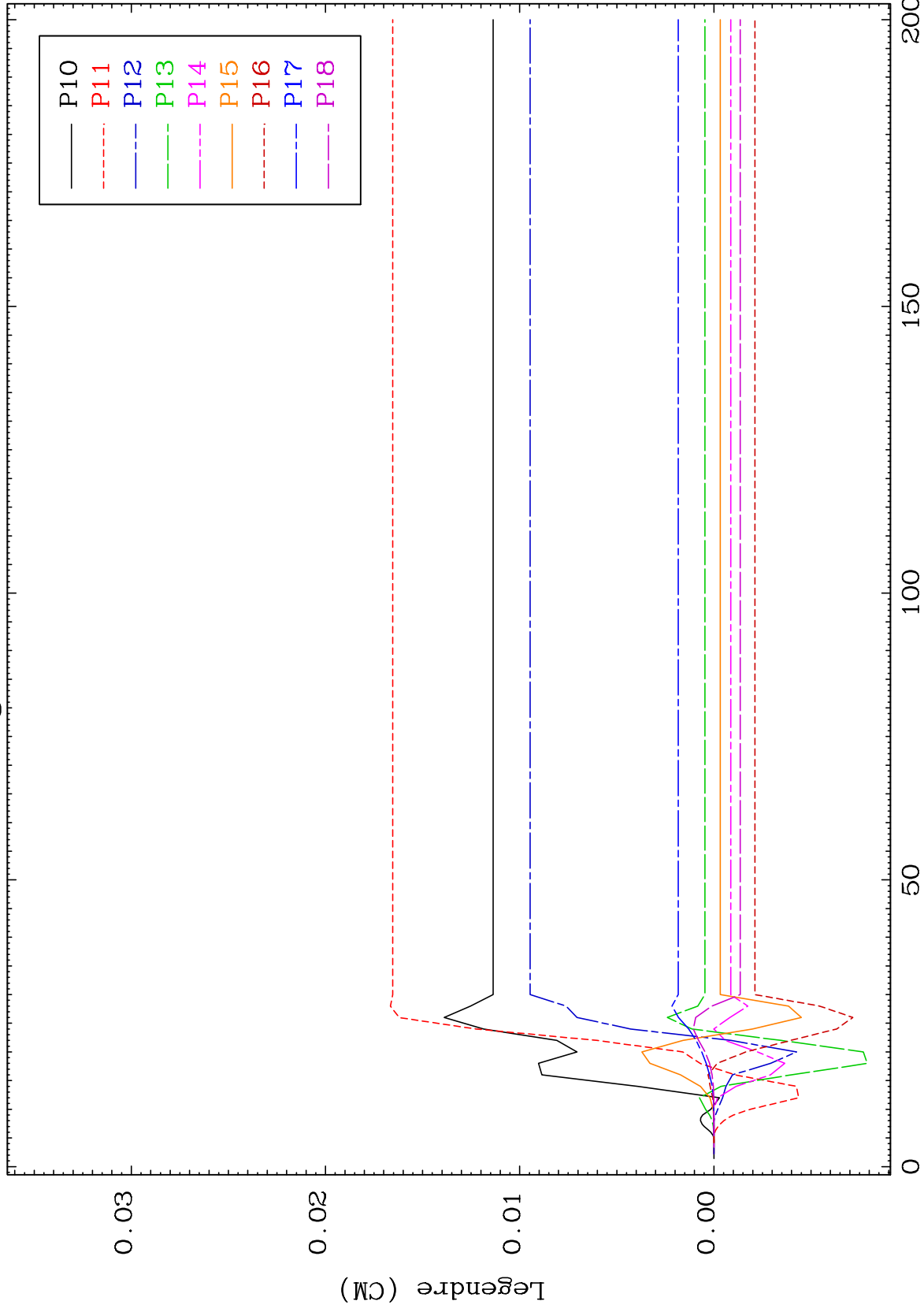
Incident Energy (MeV)

51

MAT 6134

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

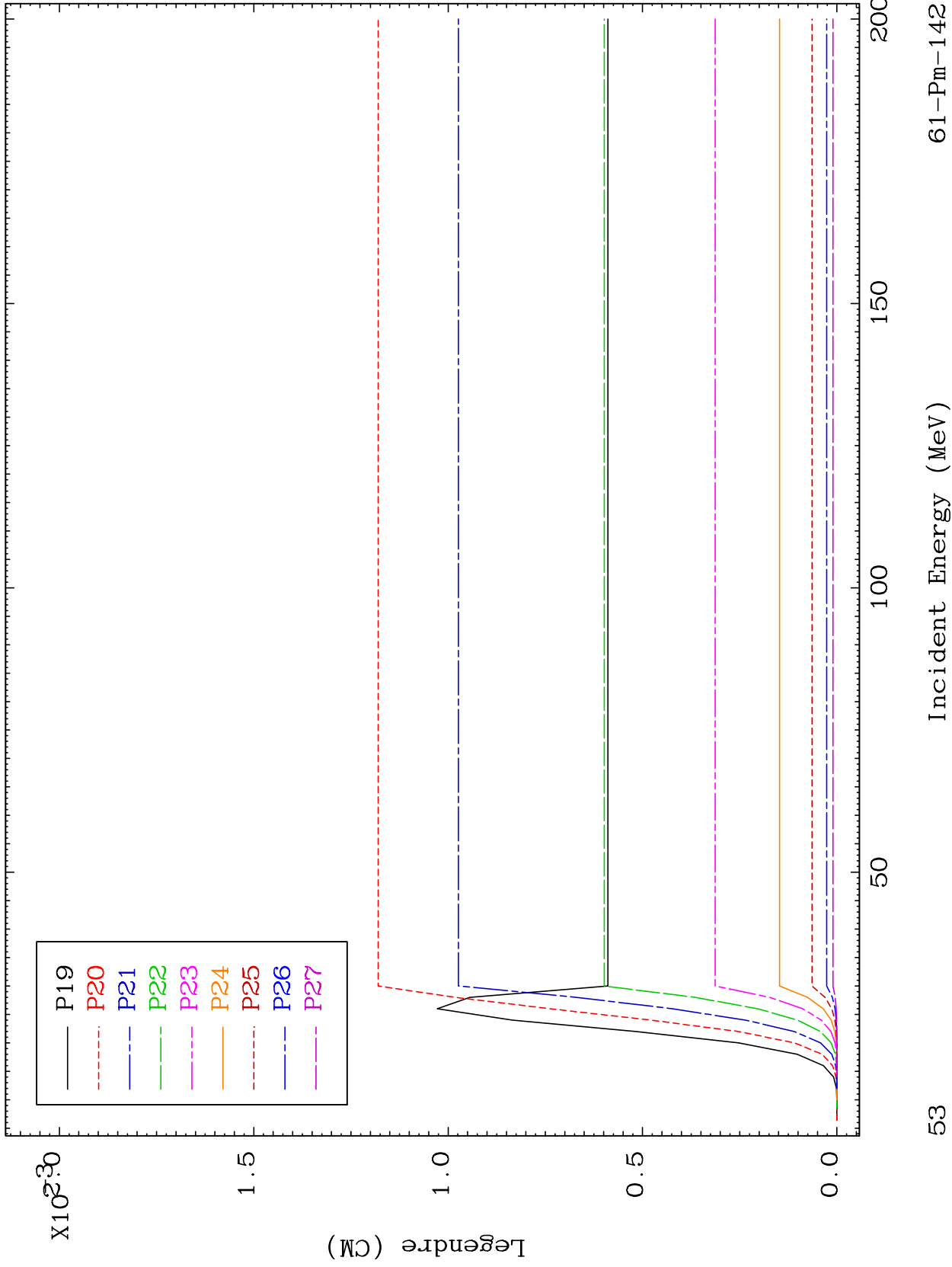
61-Pm-142



52

Incident Energy (MeV)

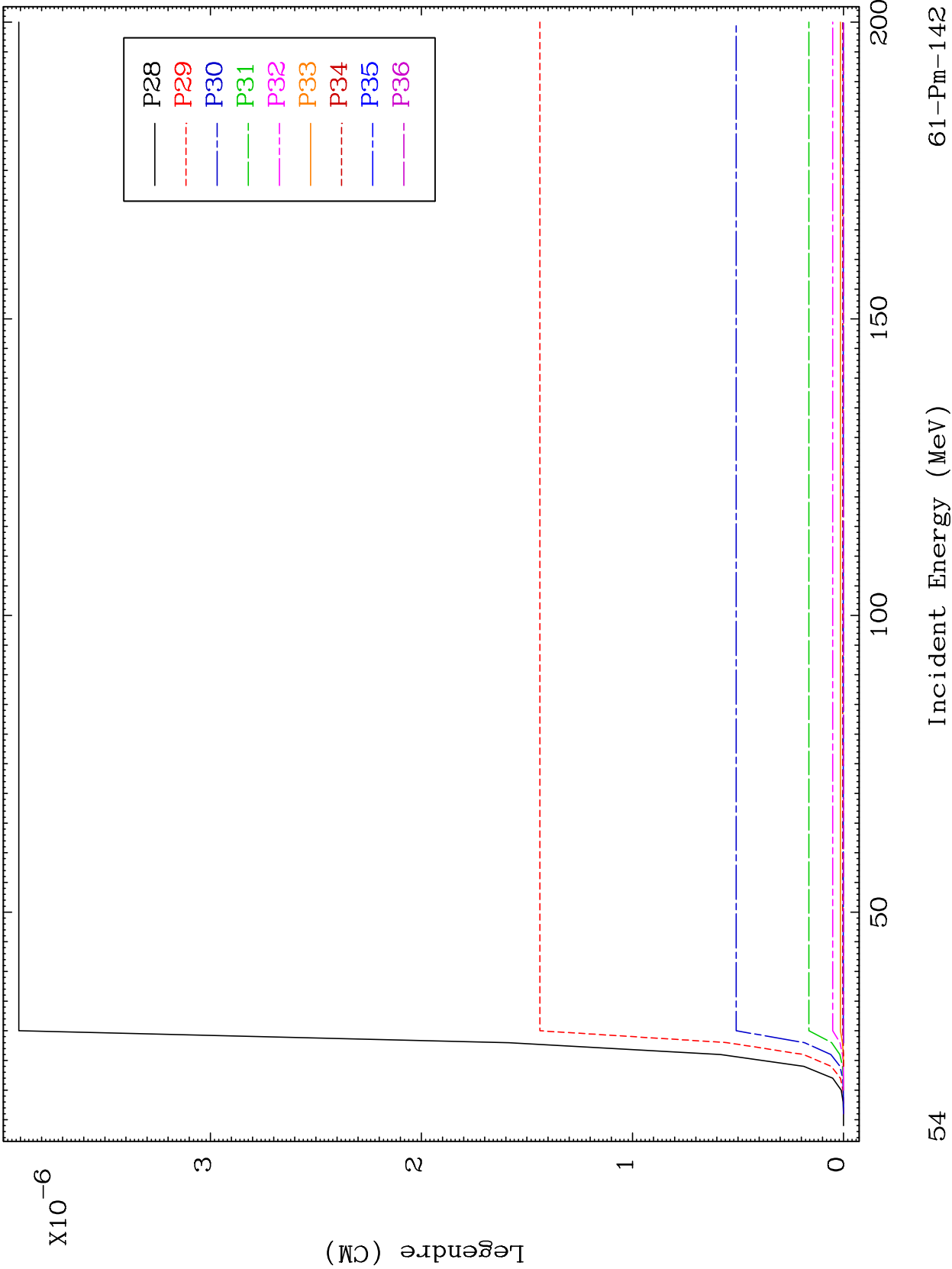
61-Pm-142



MAT 6134

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

61-Pm-142

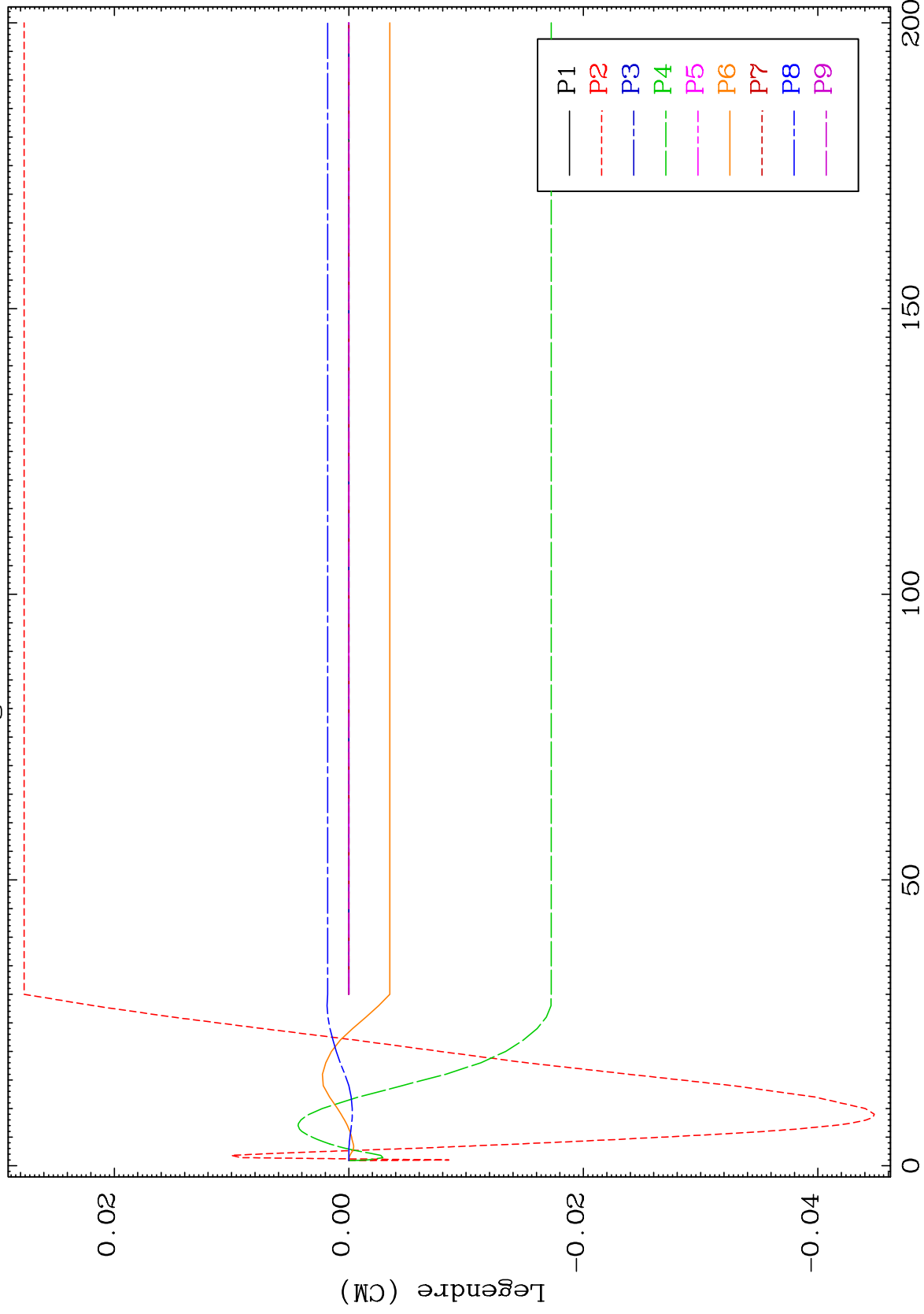


54

MAT 6134

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

61-Pm-142



61-Pm-142

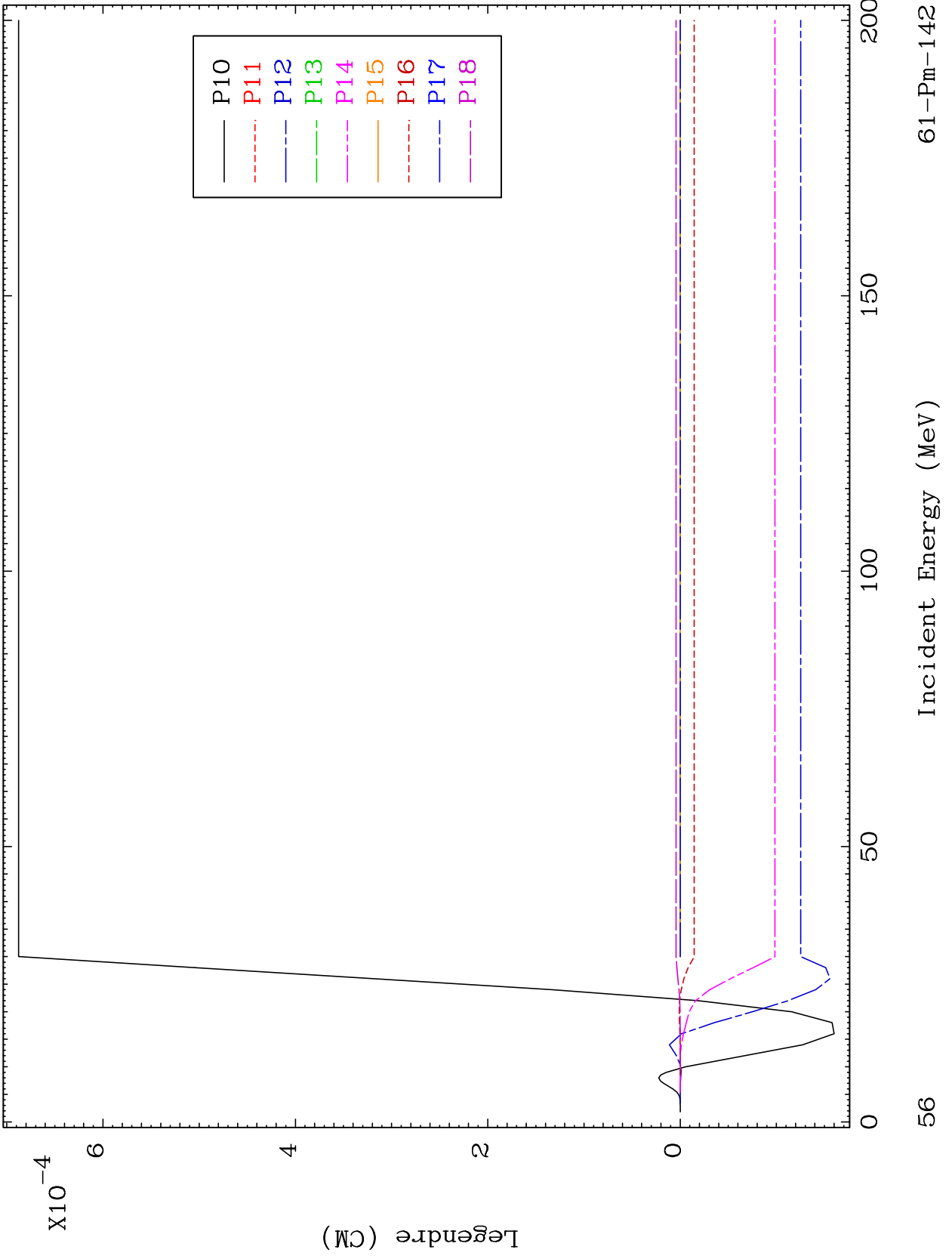
Incident Energy (MeV)

55

MAT 6134

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

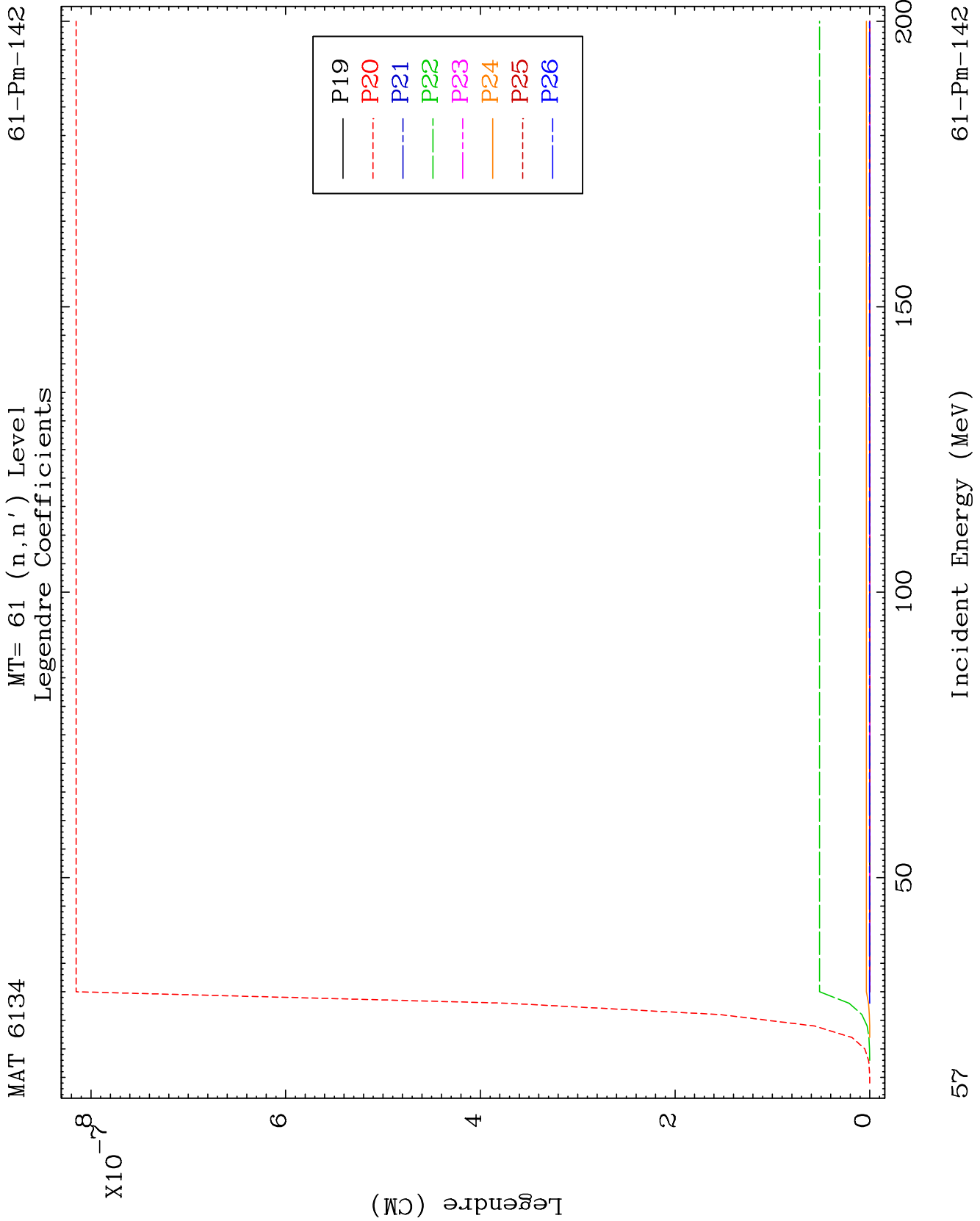
61-Pm-142



61-Pm-142

Incident Energy (MeV)

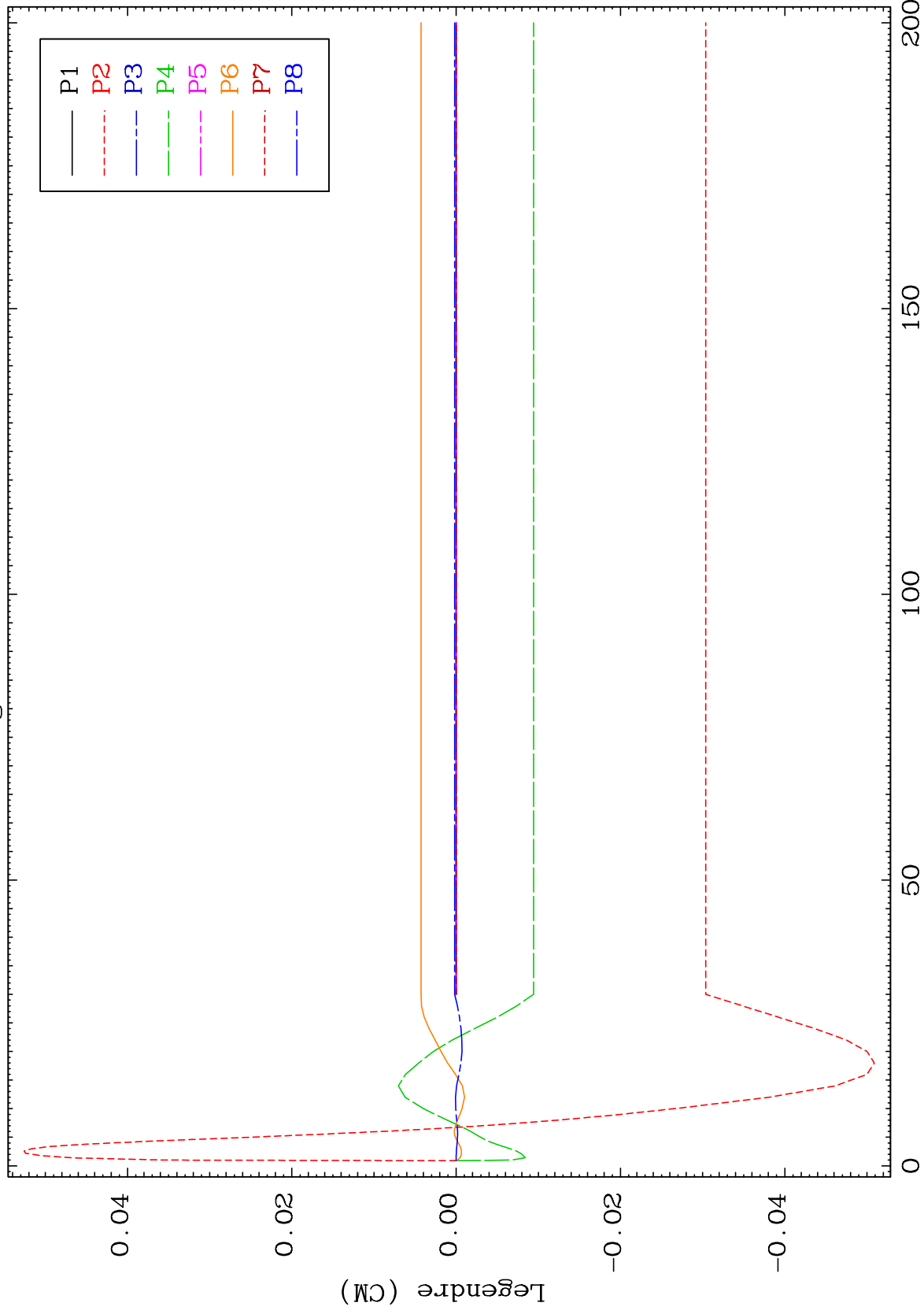
56



MAT 6134

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

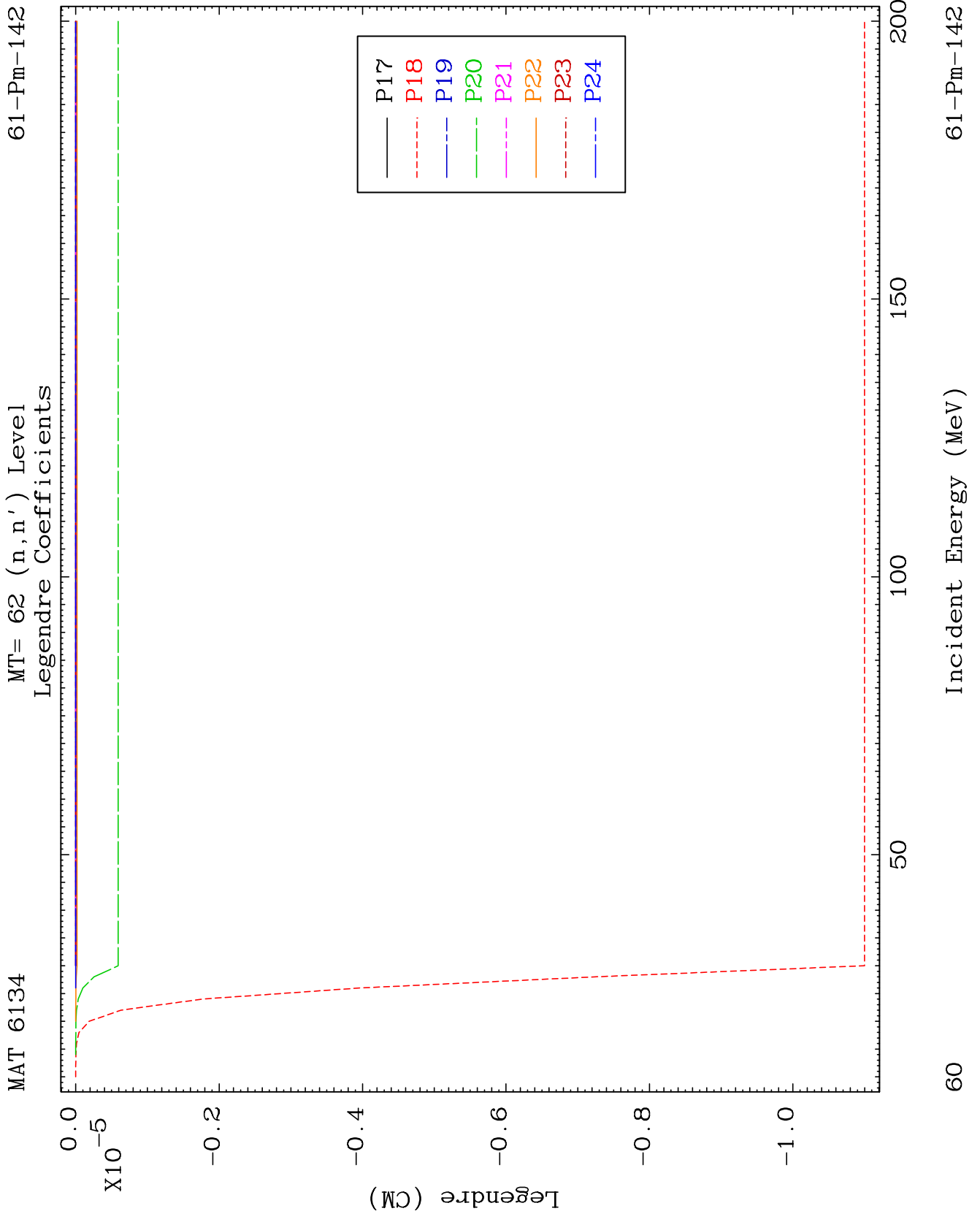
61-Pm-142



58

Incident Energy (MeV)

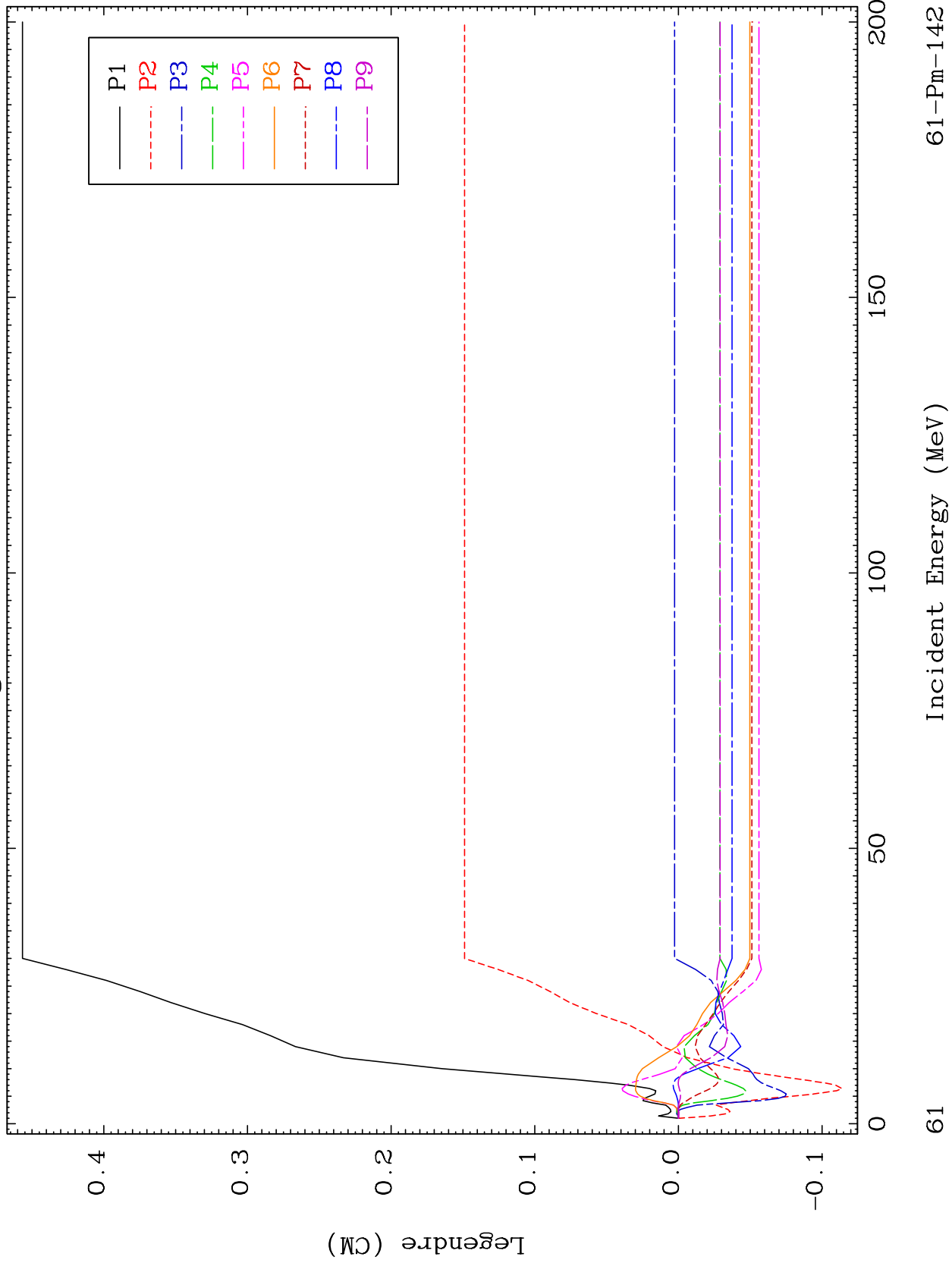
61-Pm-142



MAT 6134

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

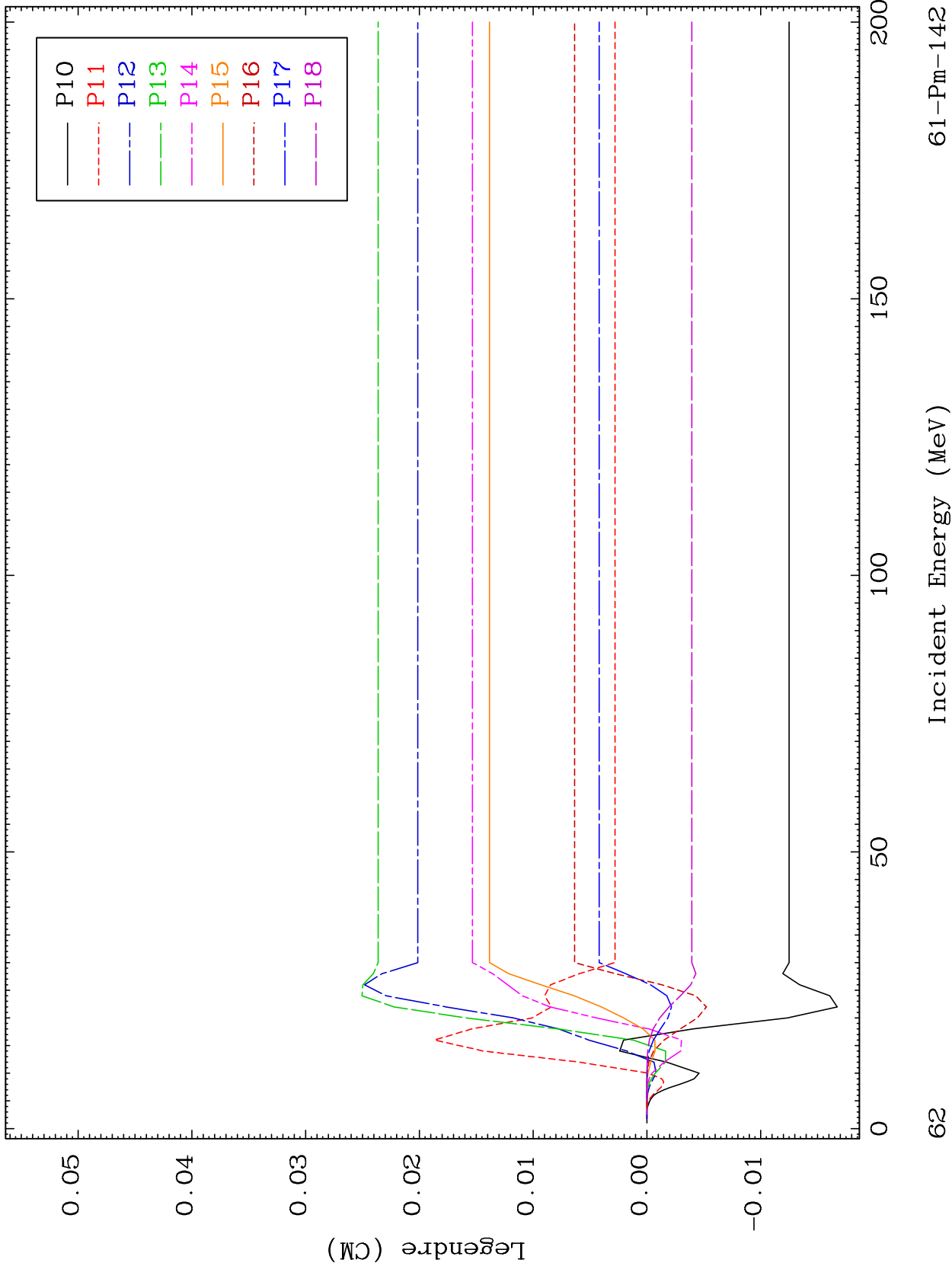
61-Pm-142



MAT 6134

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

61-Pm-142



61-Pm-142

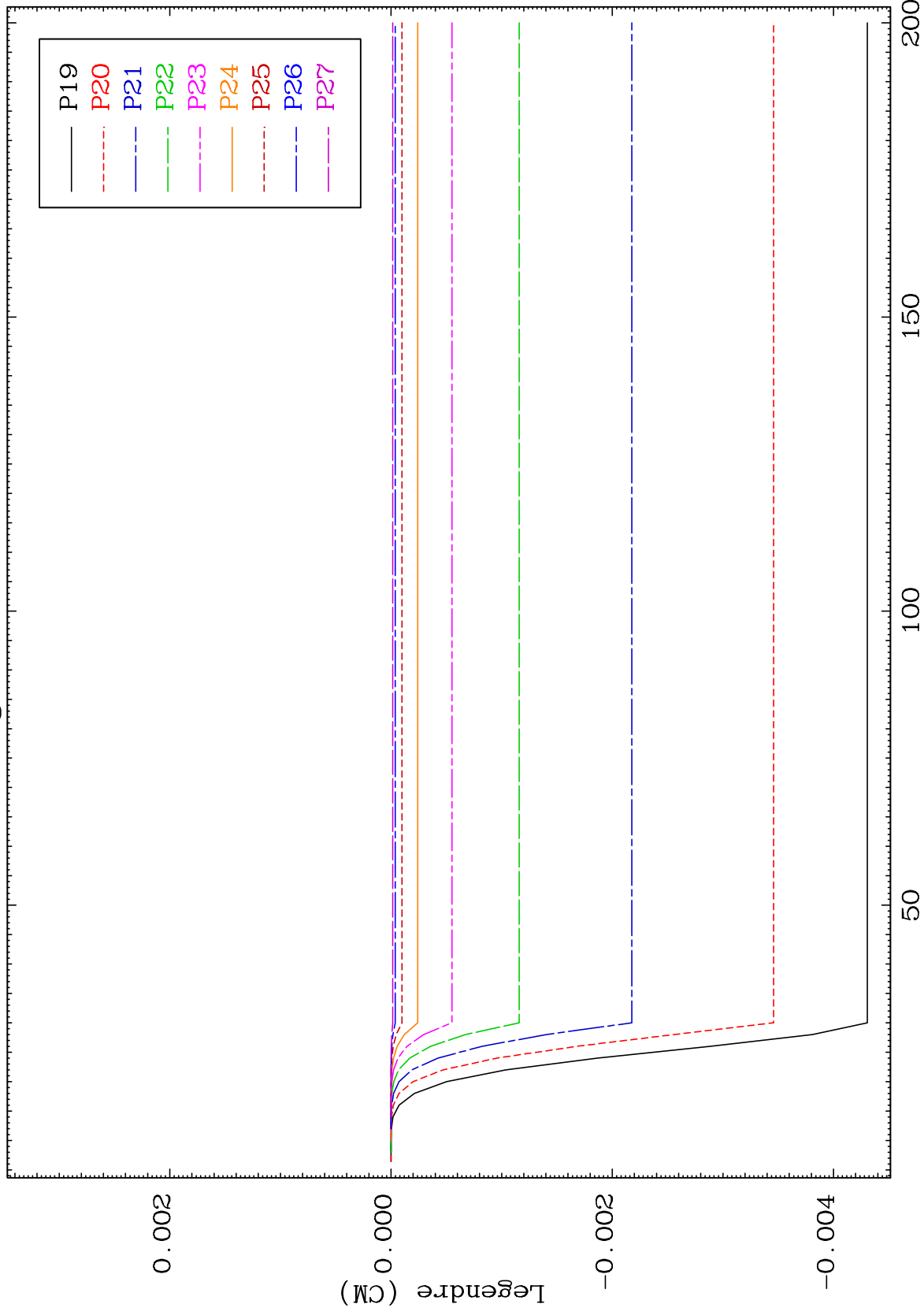
Incident Energy (MeV)

62

MAT 6134

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

61-Pm-142



63

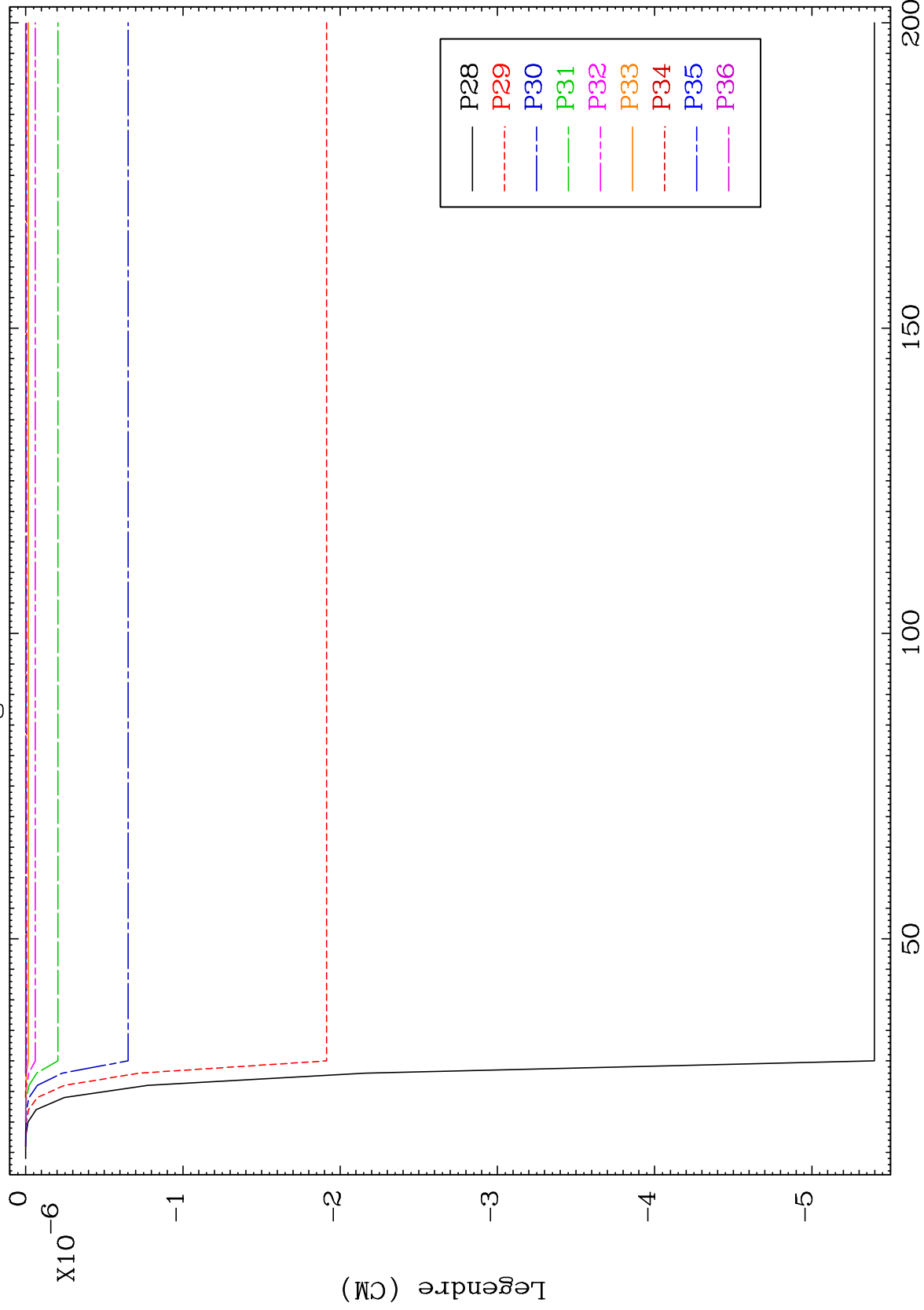
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



64

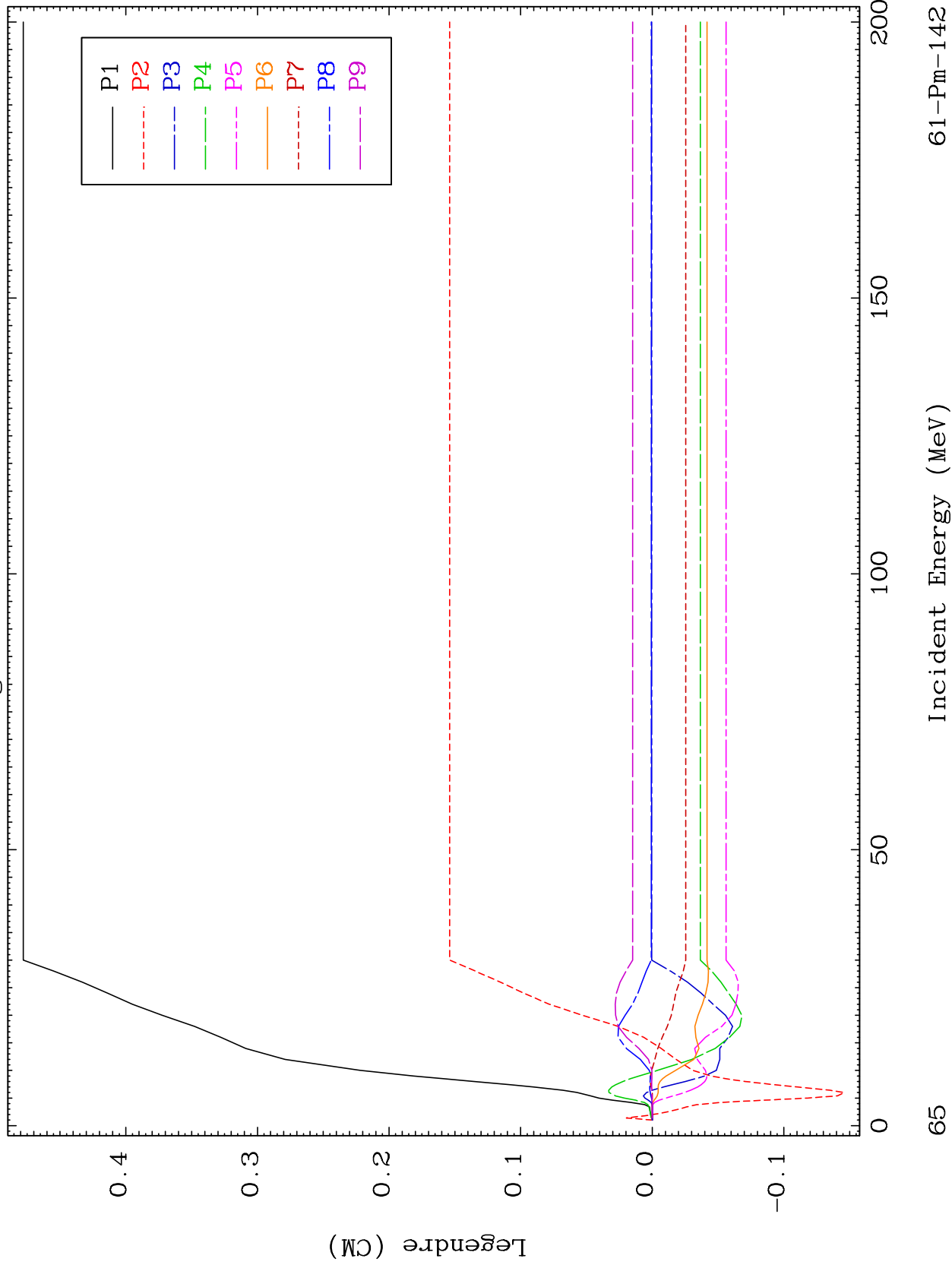
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



61-Pm-142

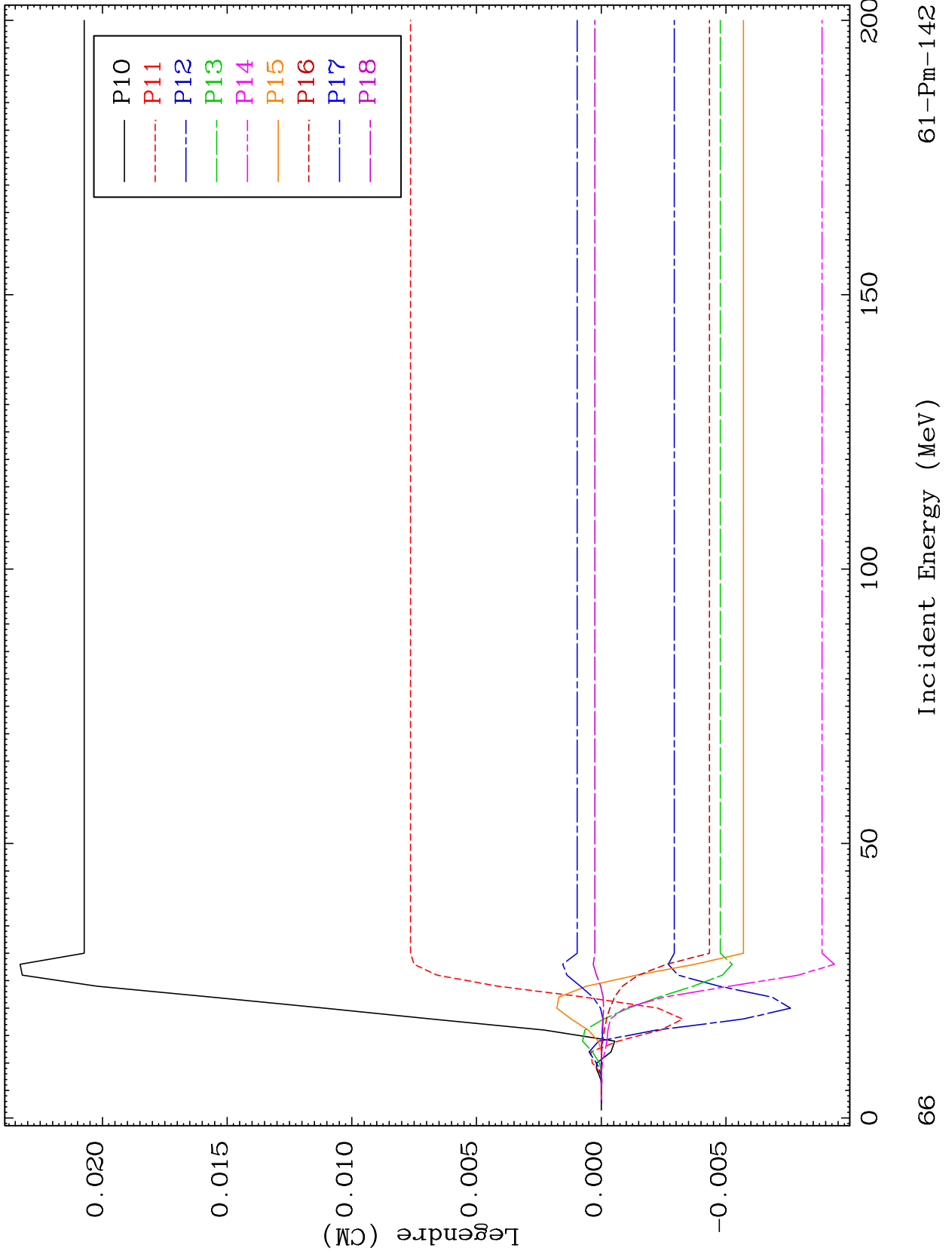
Incident Energy (MeV)

65

MAT 6134

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

61-Pm-142



66

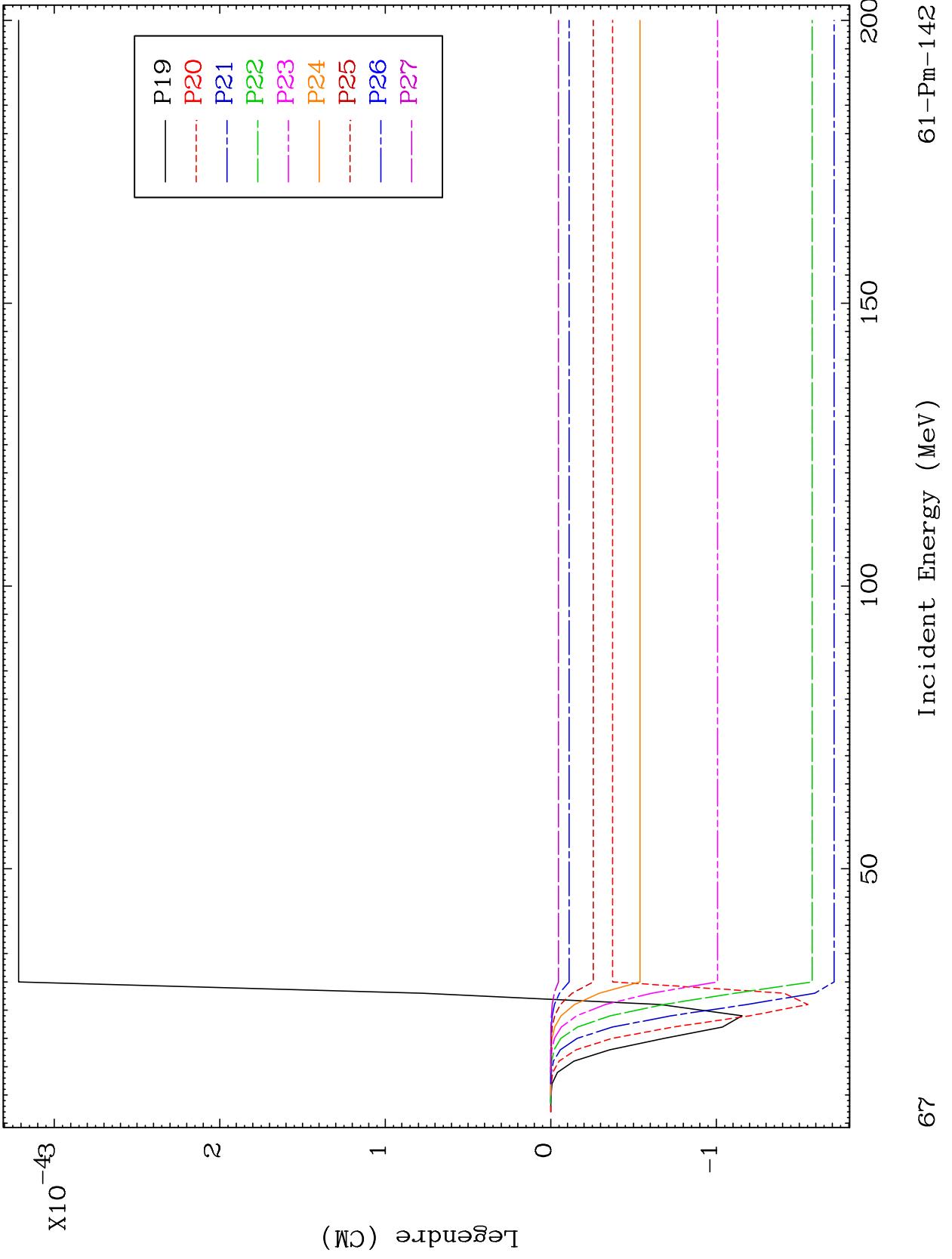
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

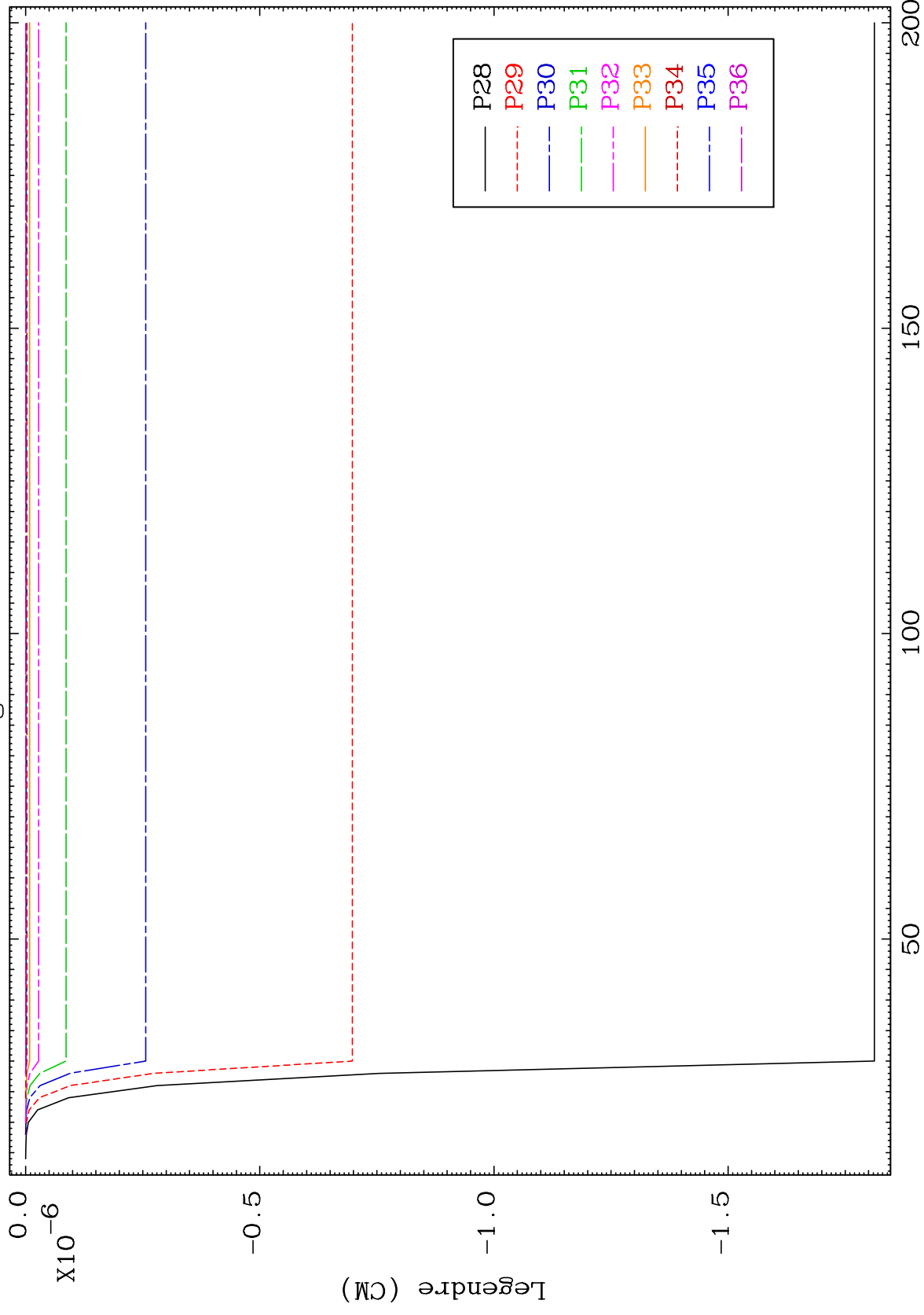
61-Pm-142



MAT 6134

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

61-Pm-142



68

Incident Energy (MeV)

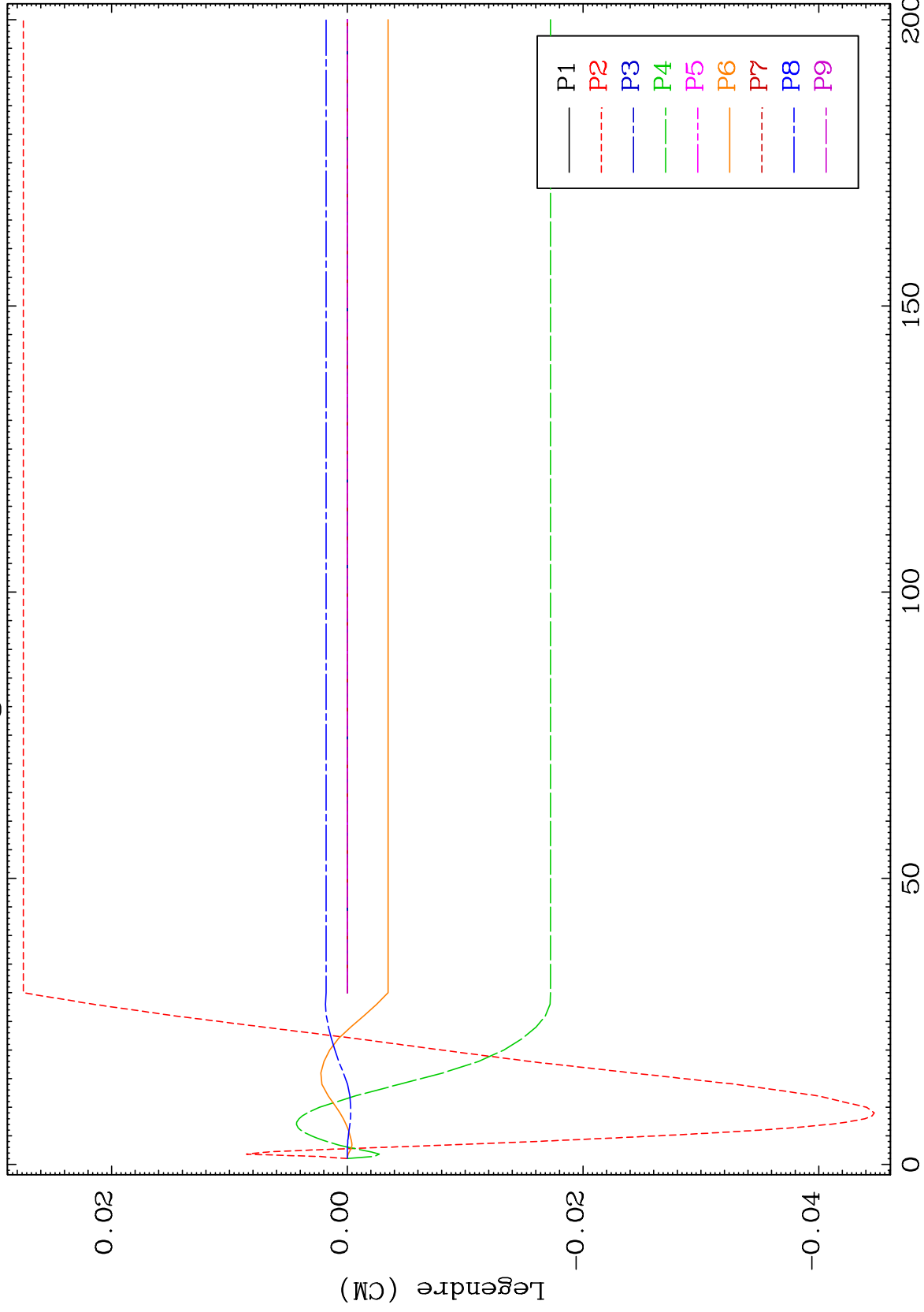
61-Pm-142

MAT 6134

MT= 65 (n,n') Level

61-Pm-142

Legendre Coefficients



Incident Energy (MeV)

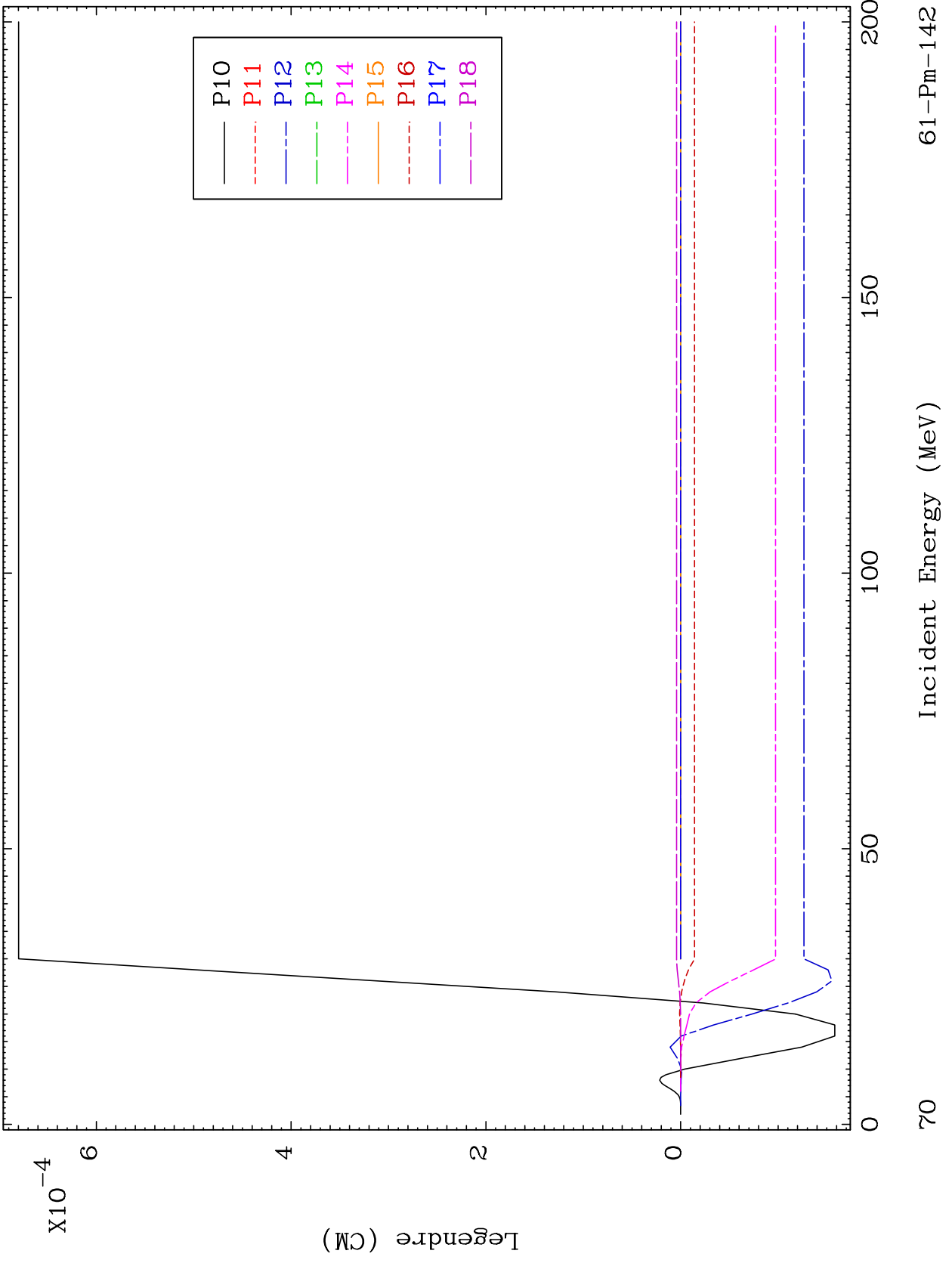
61-Pm-142

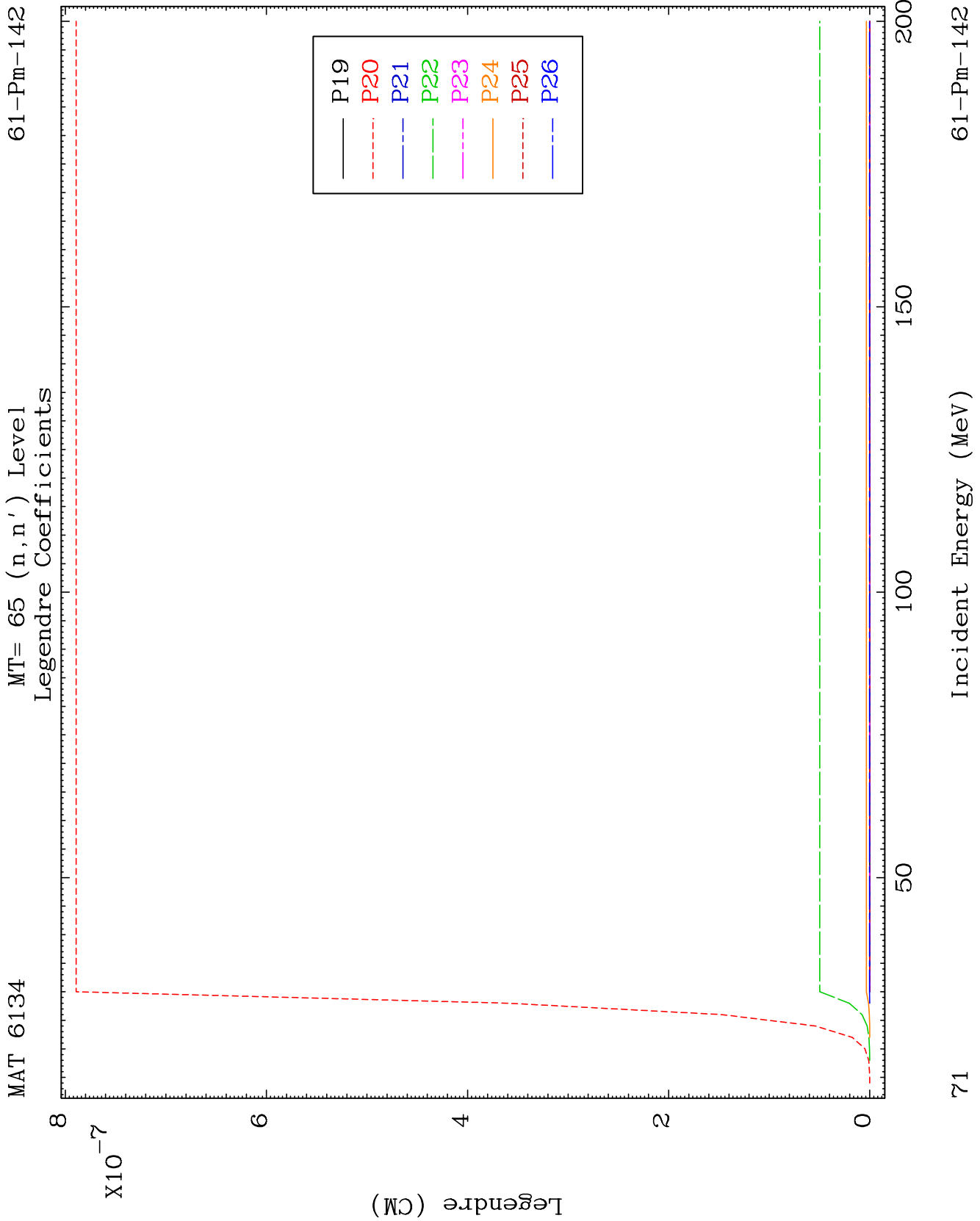
69

MAT 6134

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

61-Pm-142

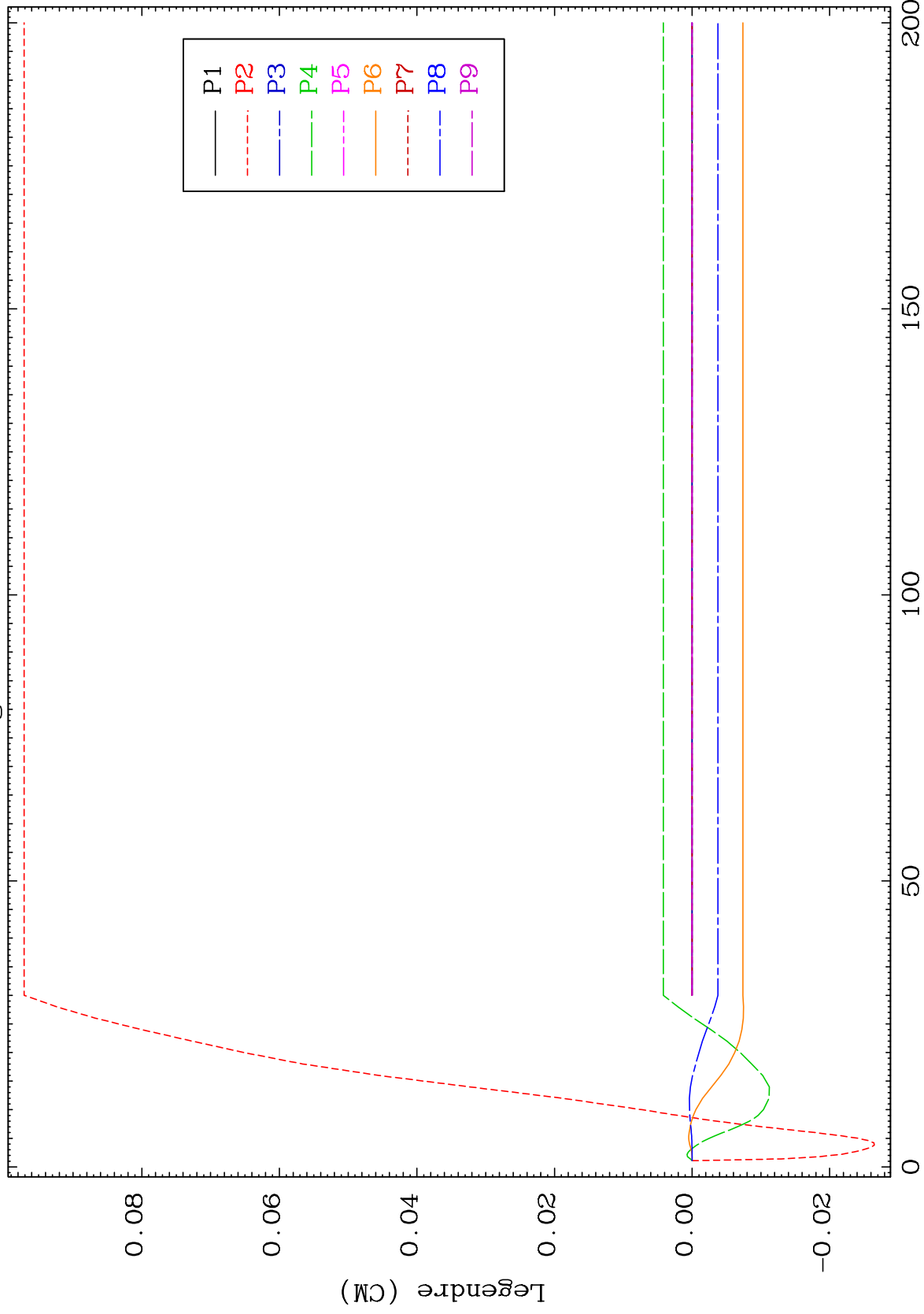




MAT 6134

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

61-Pm-142



61-Pm-142

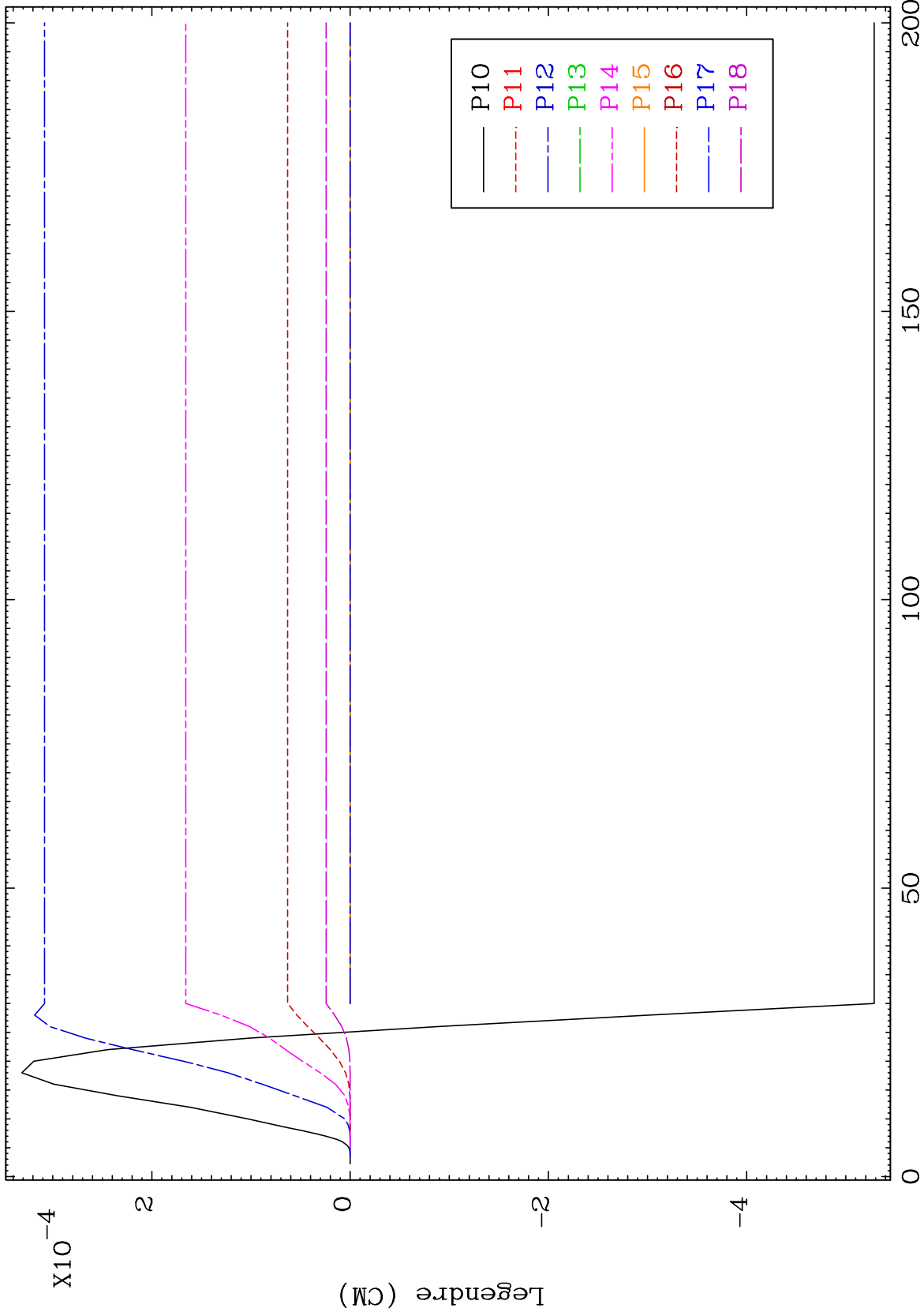
Incident Energy (MeV)

72

MAT 6134

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

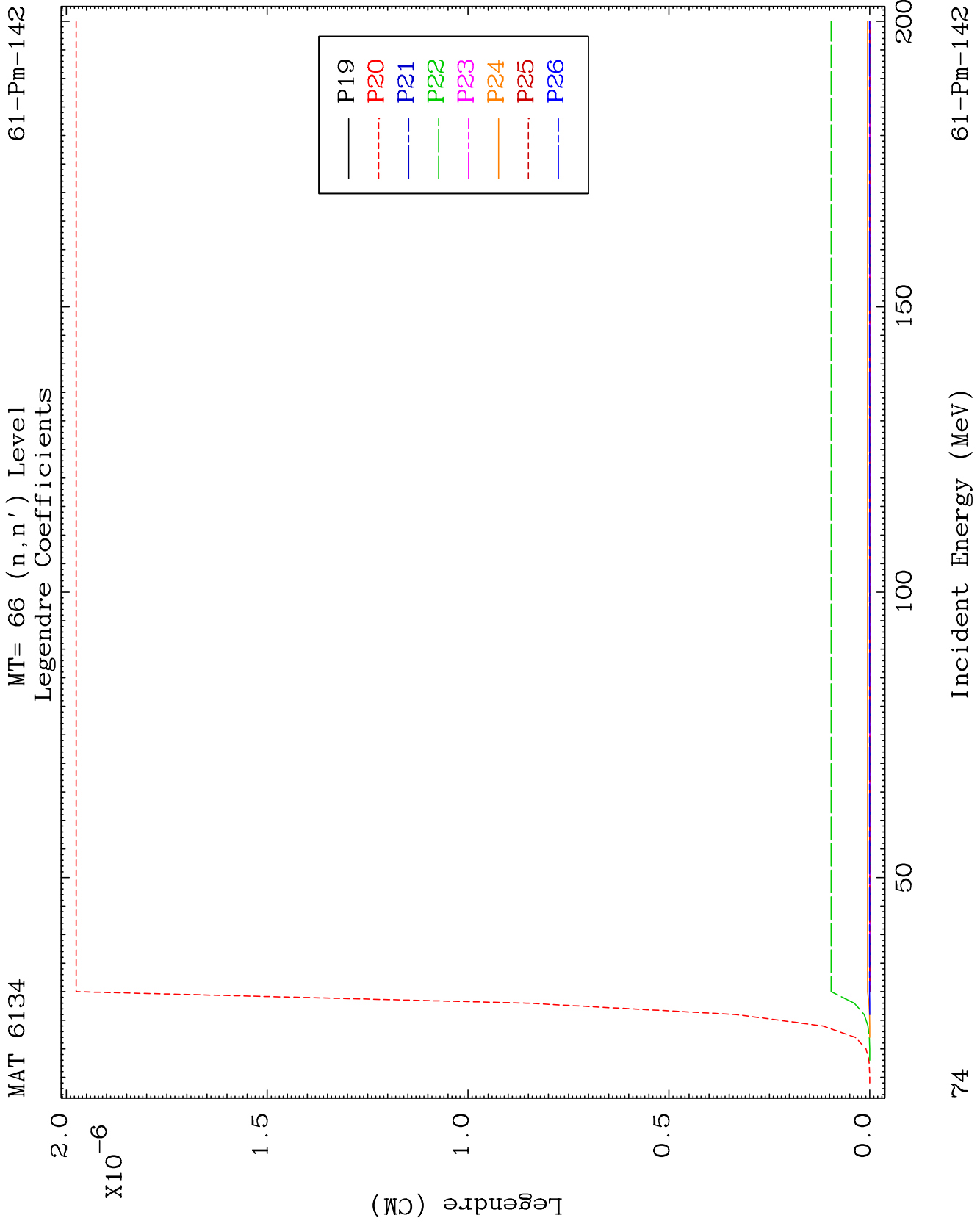
61-Pm-142



73

Incident Energy (MeV)

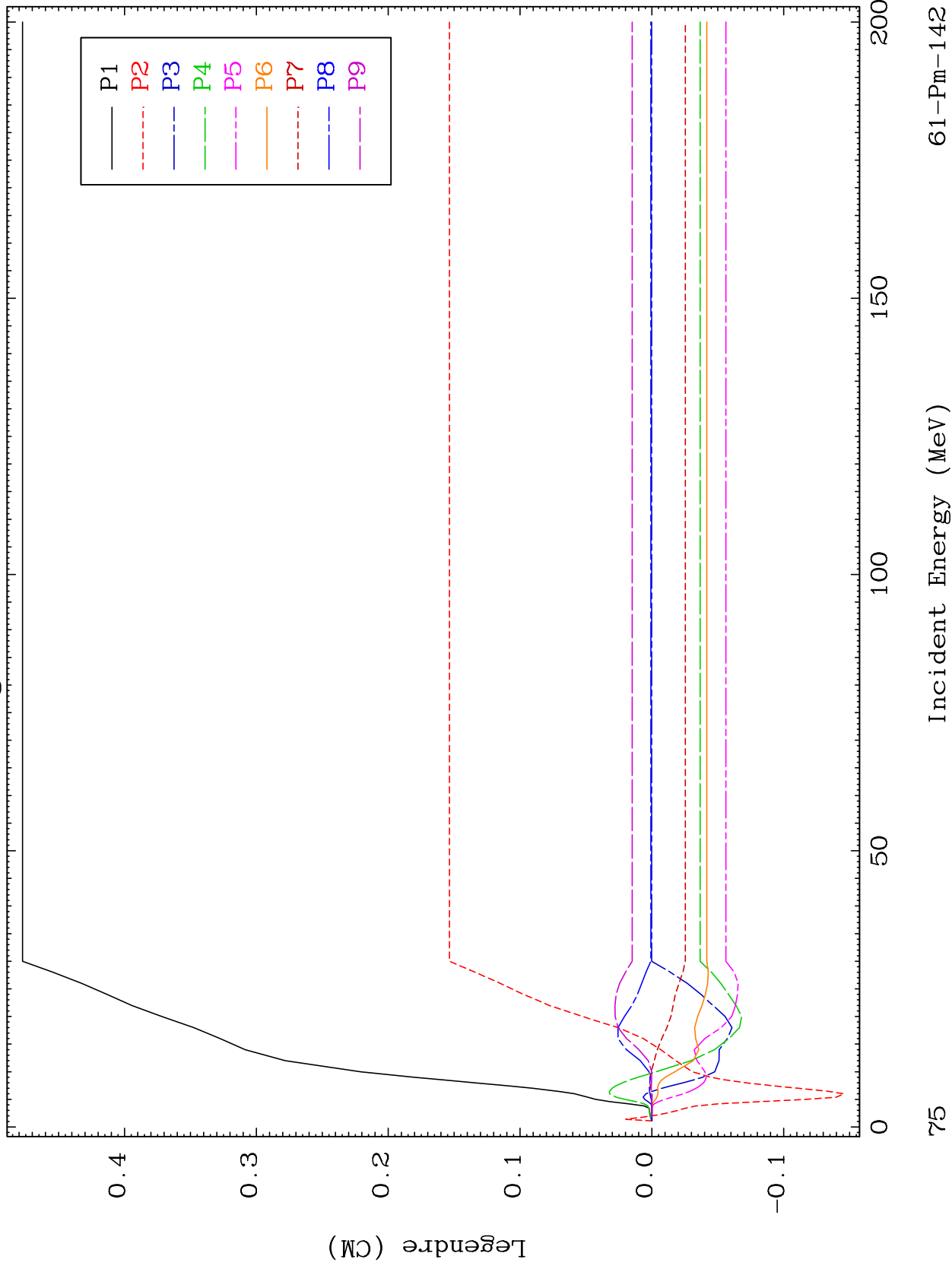
61-Pm-142



MAT 6134

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

61-Pm-142

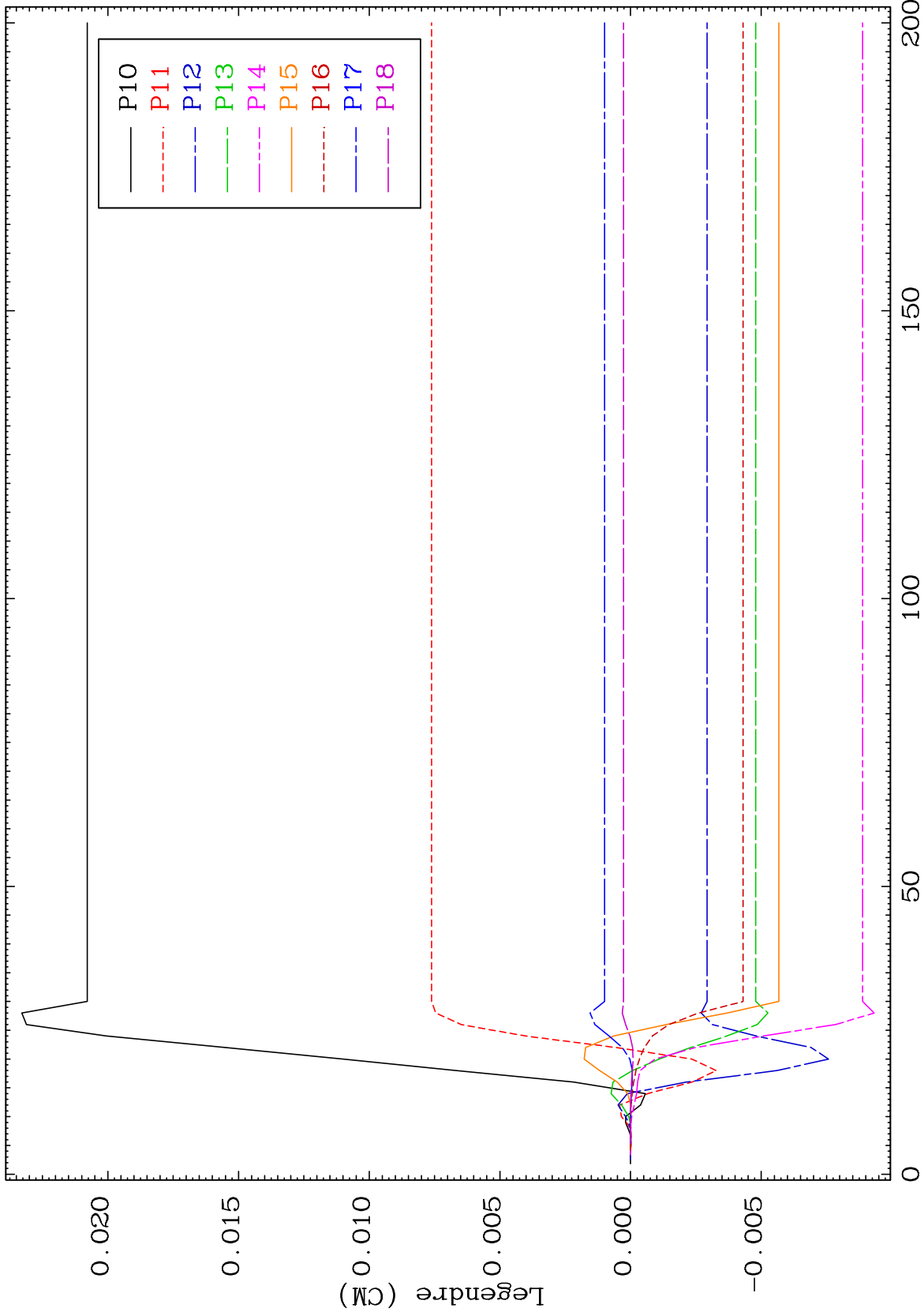


61-Pm-142

MAT 6134

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

61-Pm-142



76

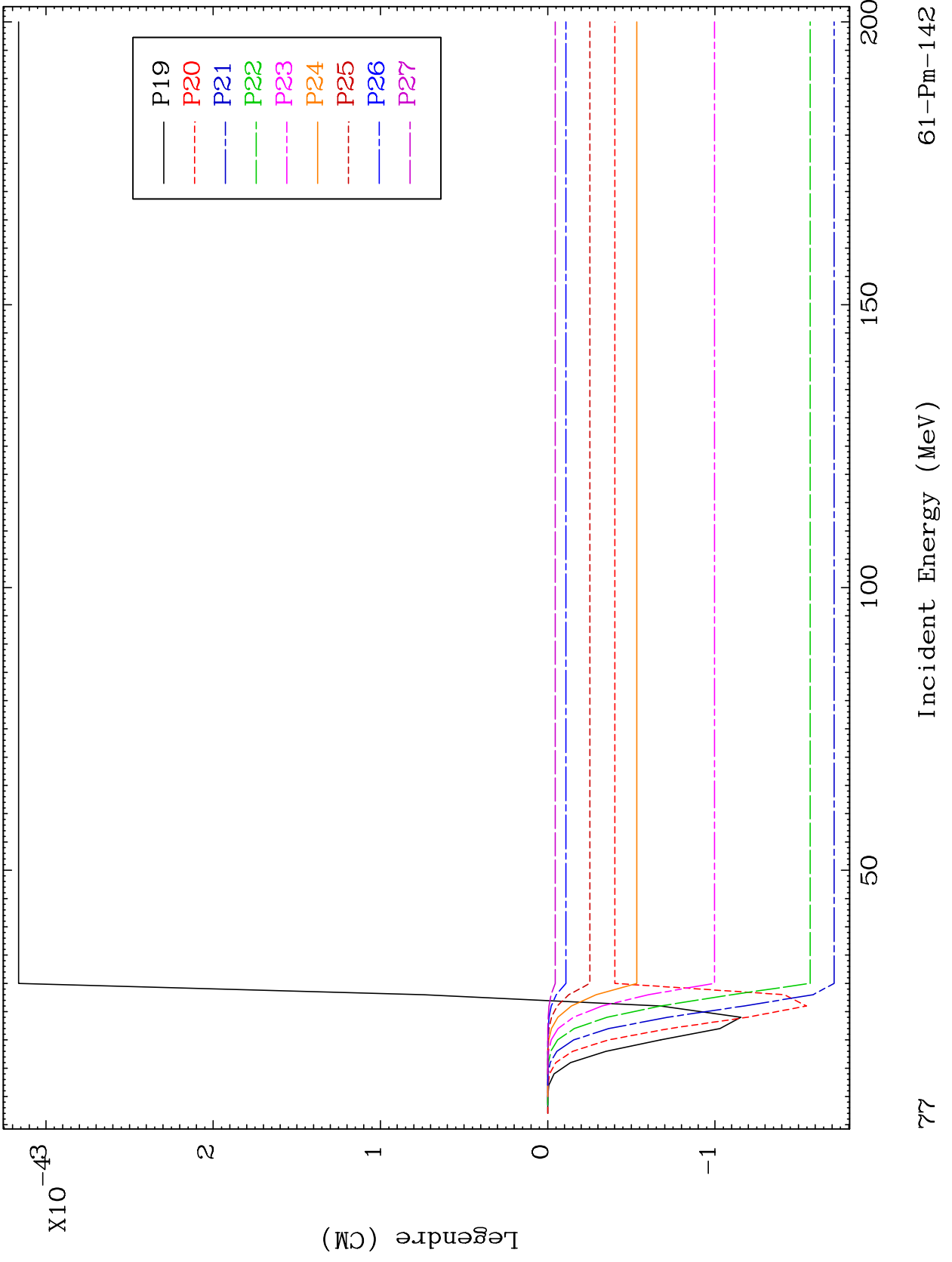
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

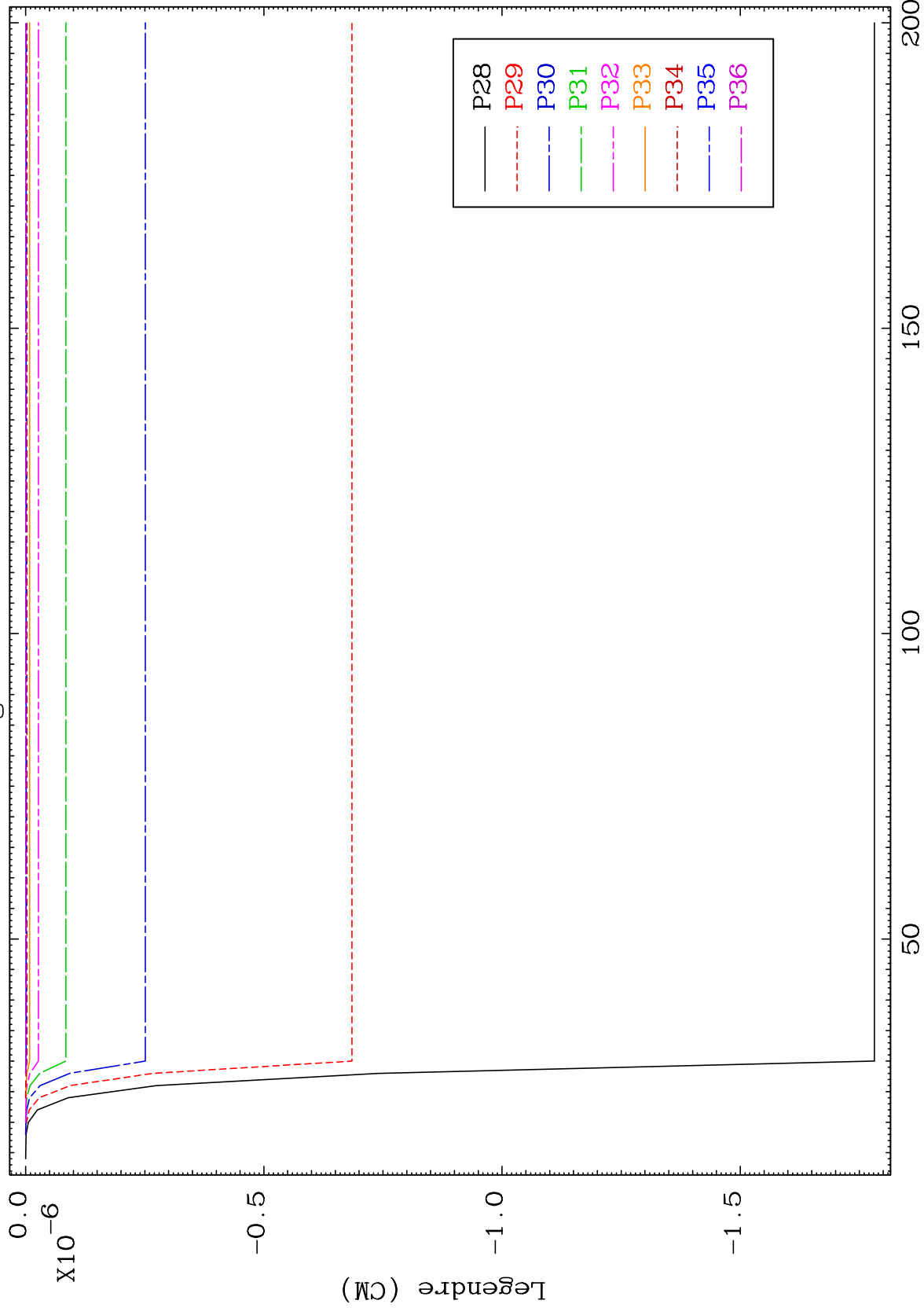
61-Pm-142



MAT 6134

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

61-Pm-142



78

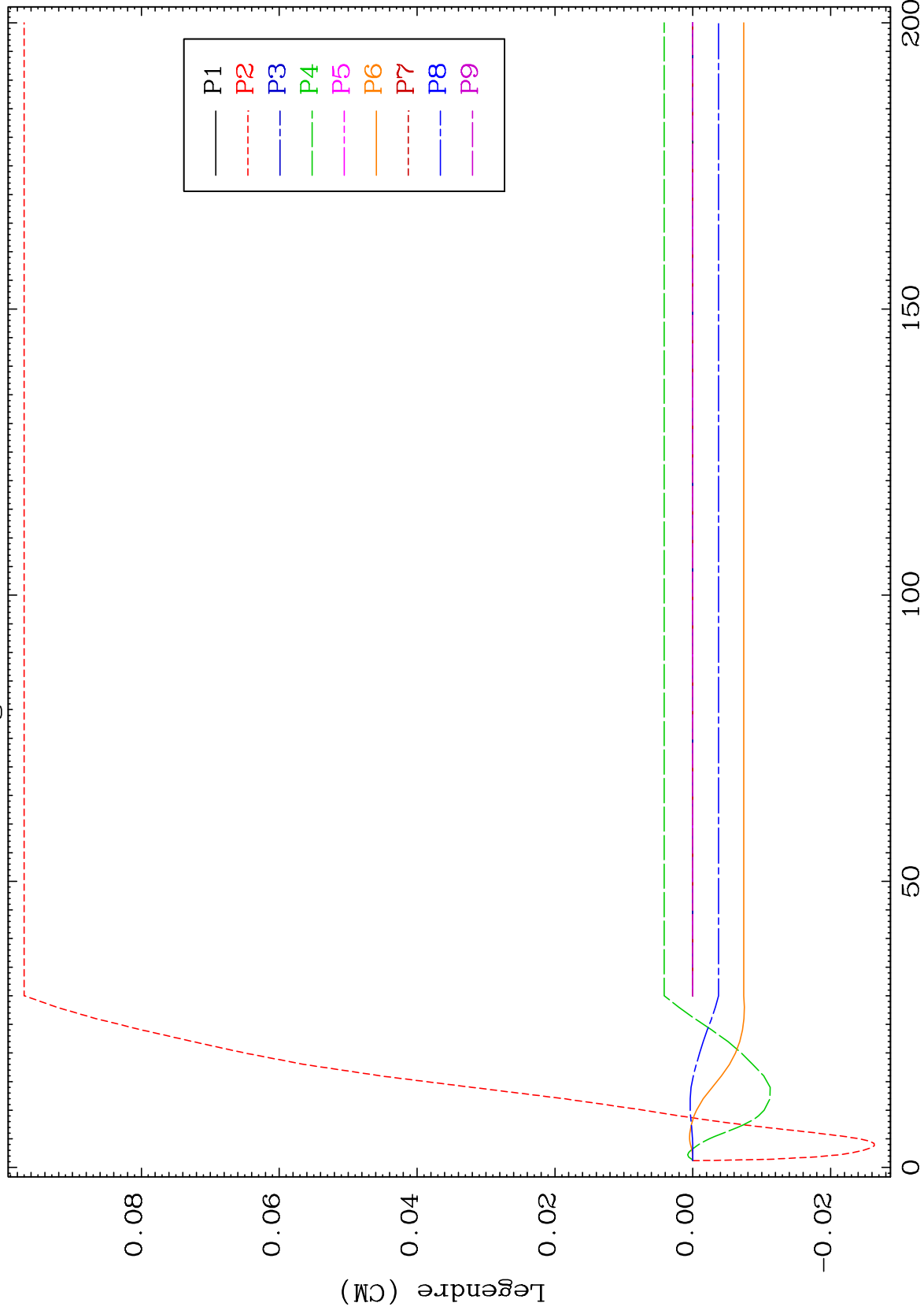
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

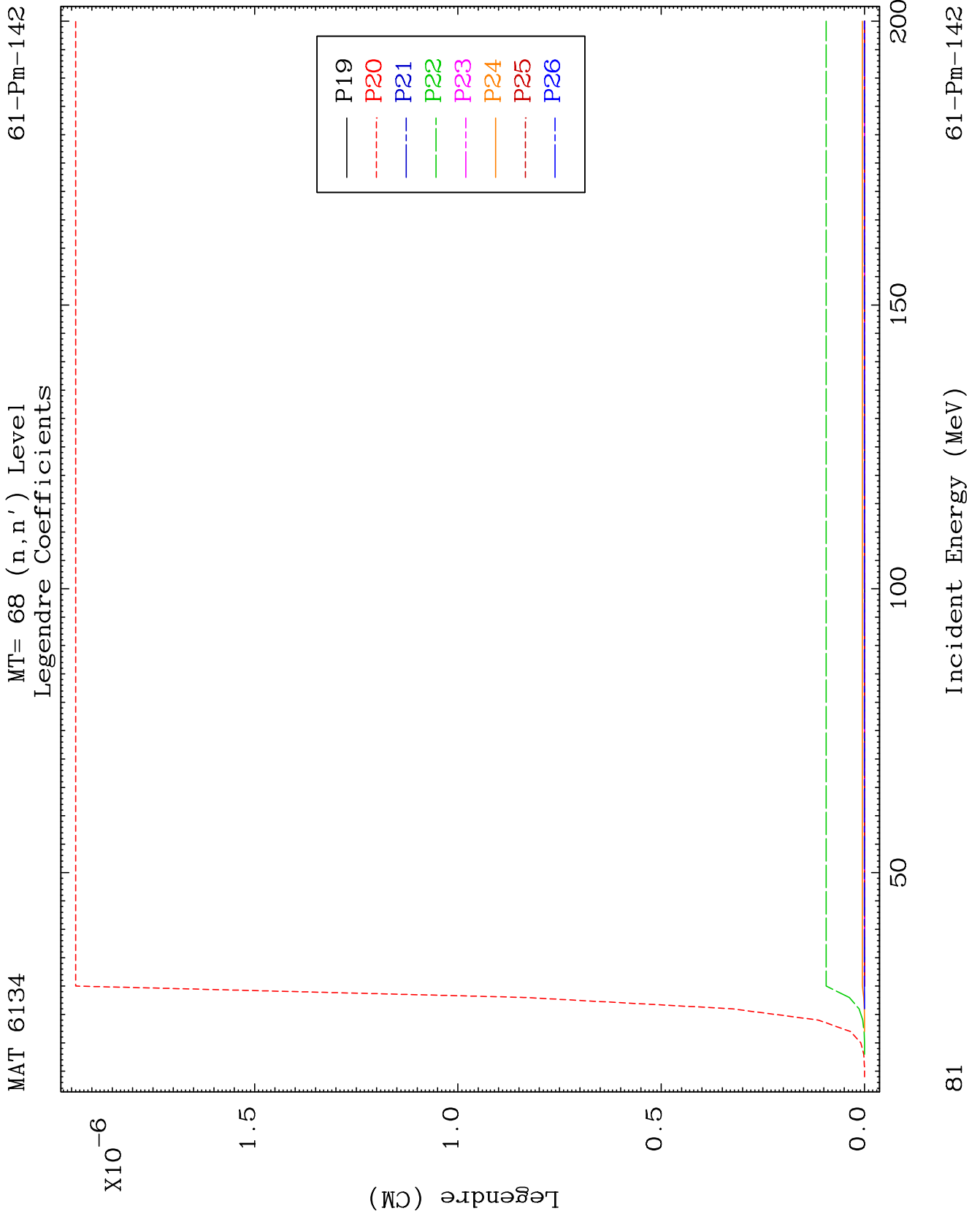
61-Pm-142



79

Incident Energy (MeV)

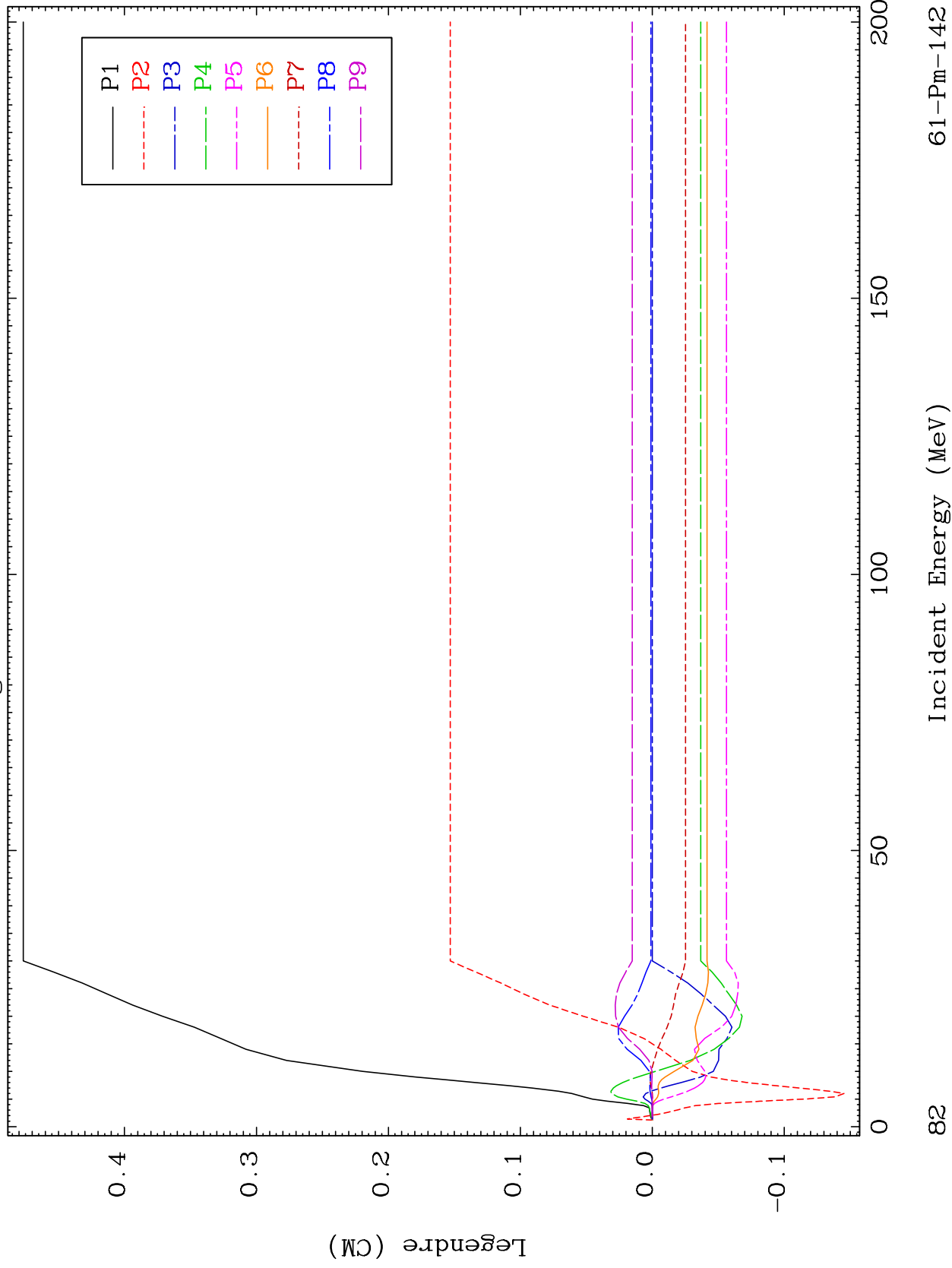
61-Pm-142



MAT 6134

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

61-Pm-142



61-Pm-142

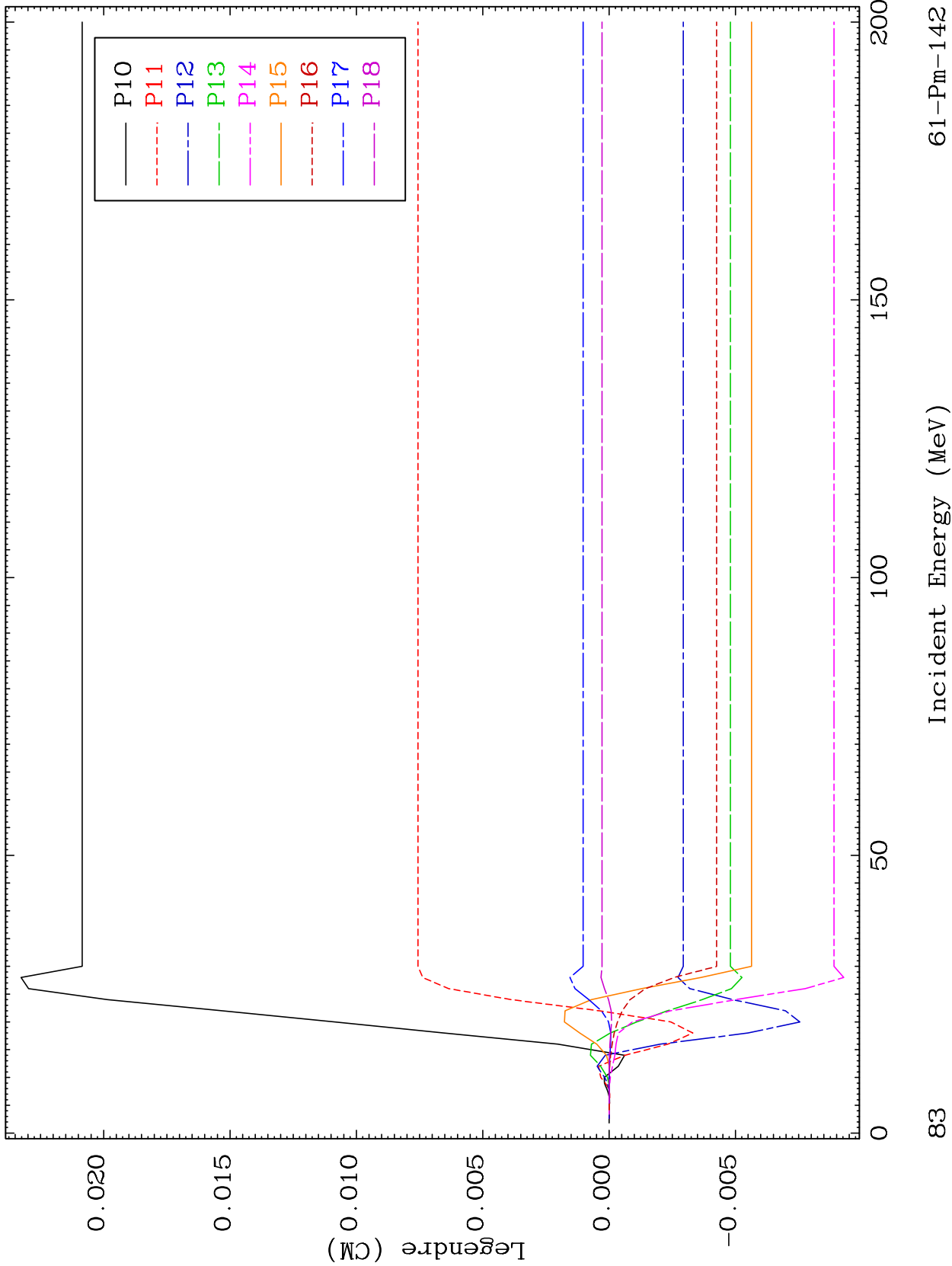
Incident Energy (MeV)

82

MAT 6134

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

61-Pm-142



83

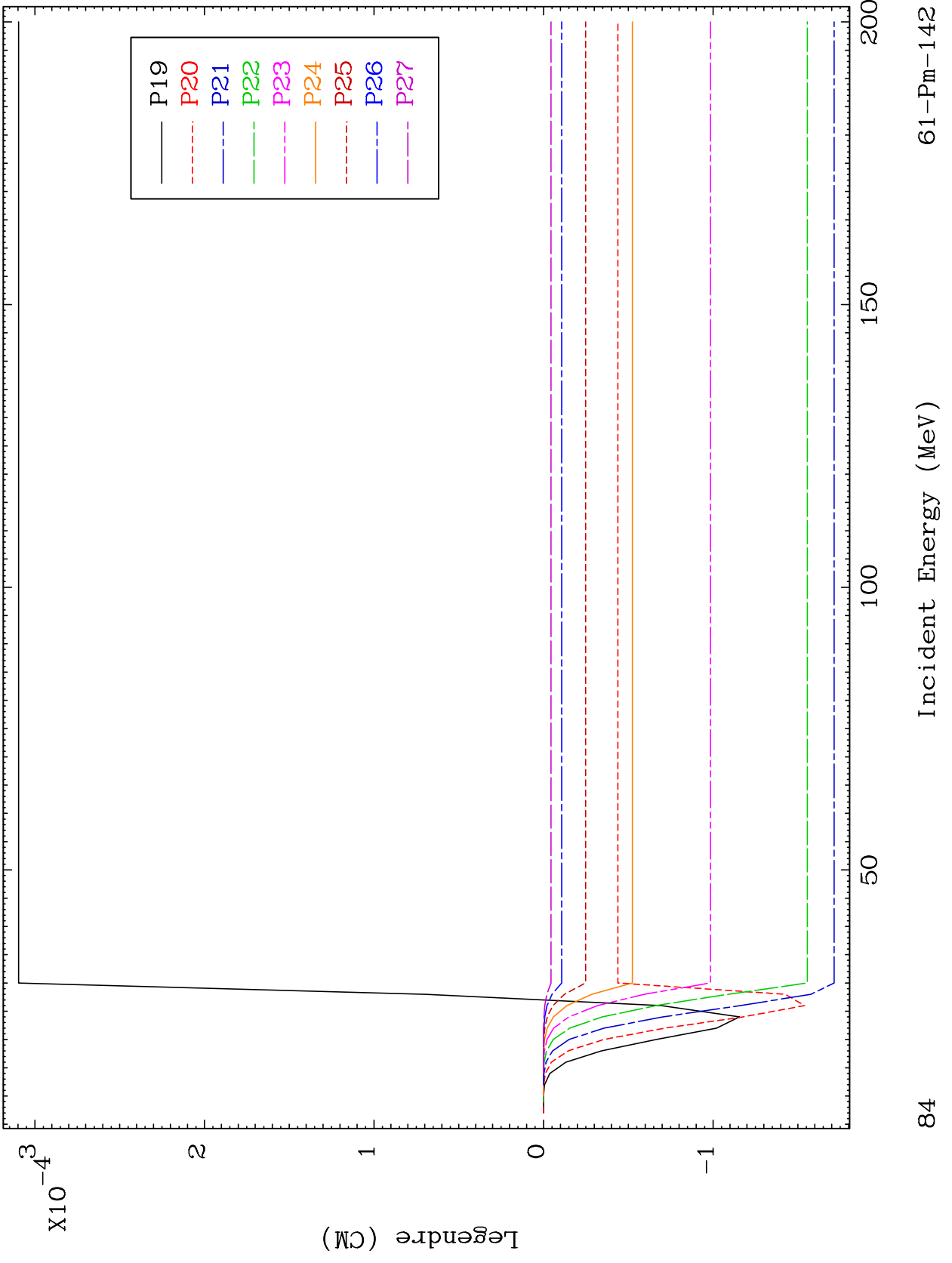
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

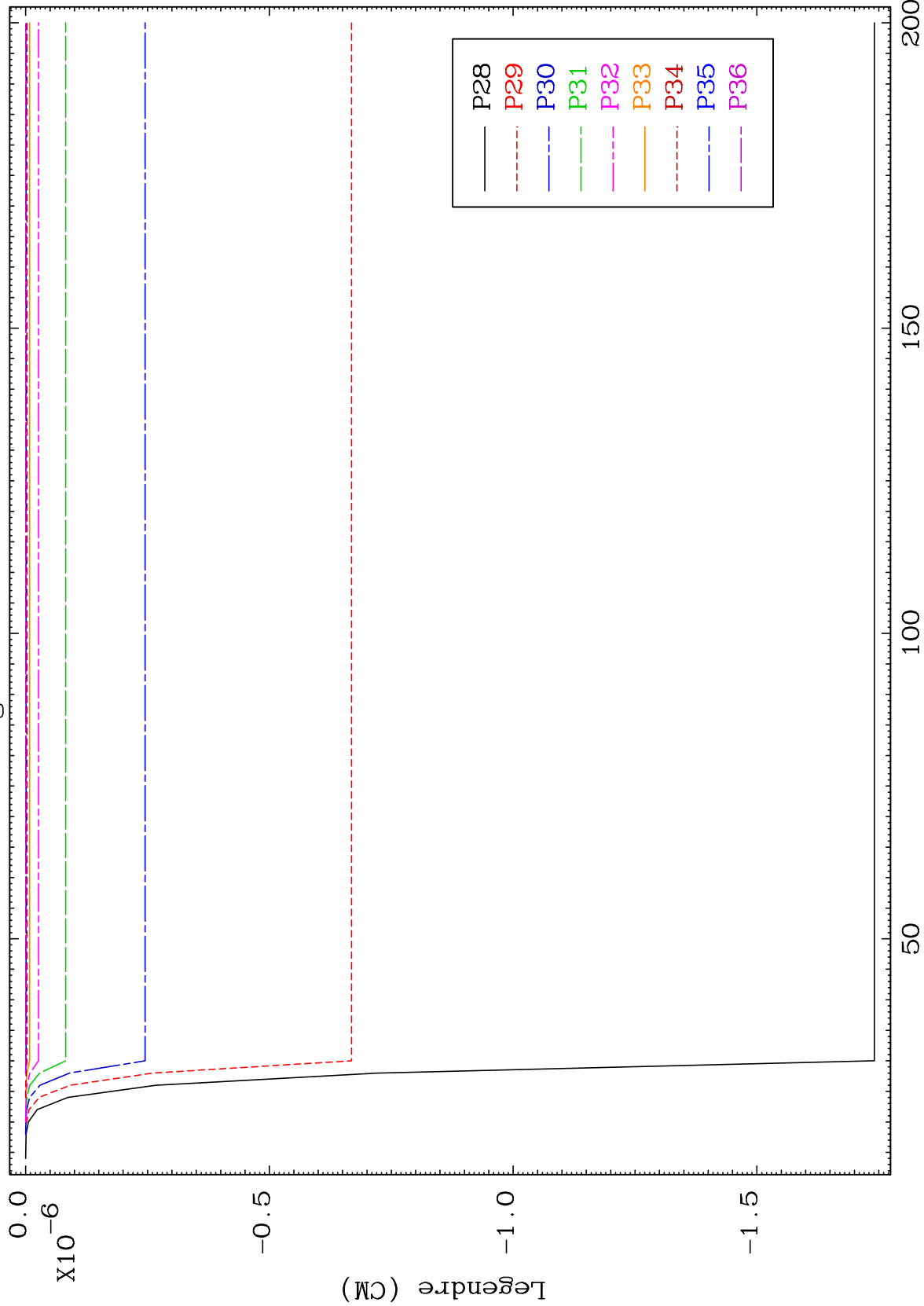
61-Pm-142



MAT 6134

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

61-Pm-142



61-Pm-142

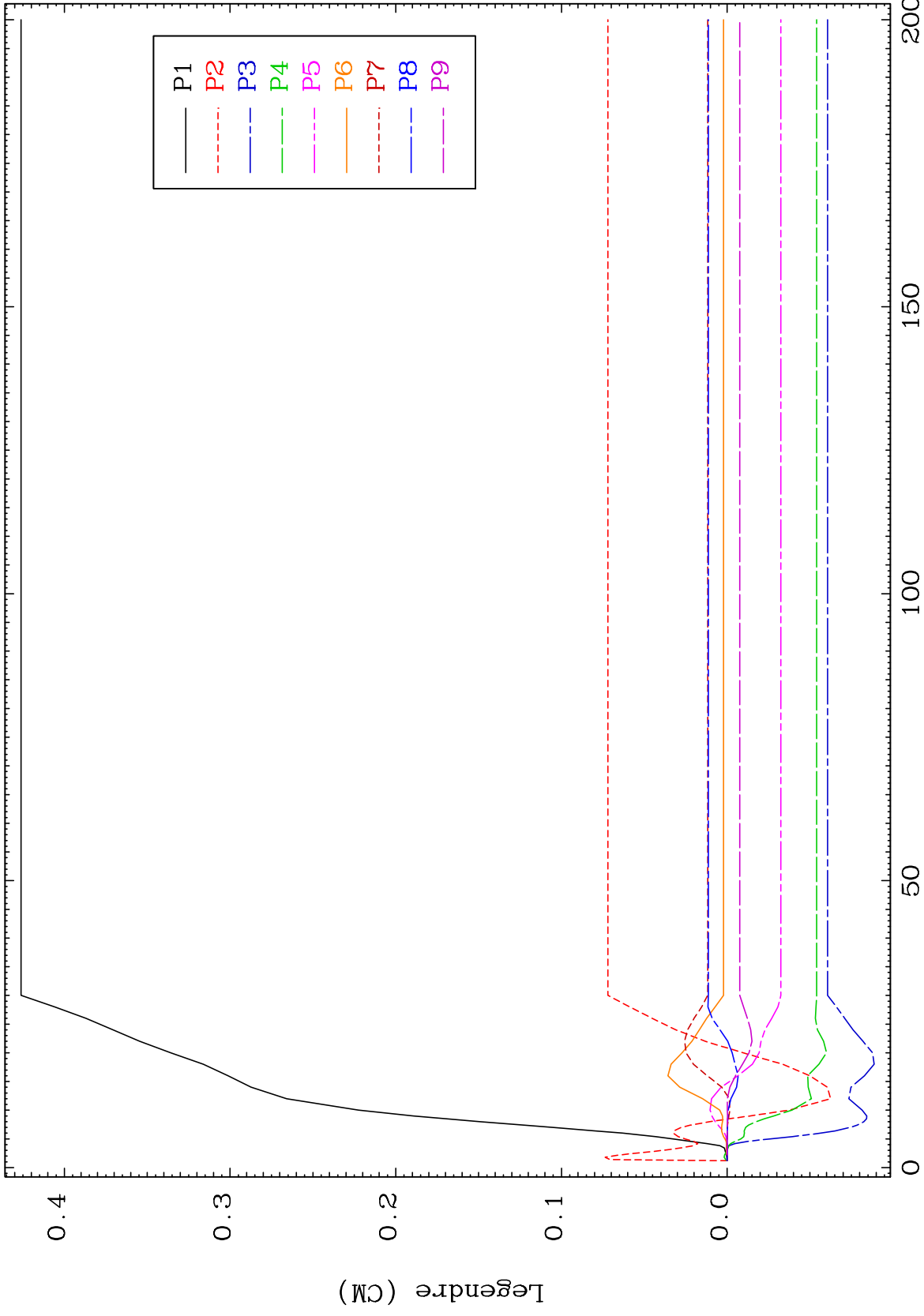
Incident Energy (MeV)

85

MAT 6134

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

61-Pm-142



86

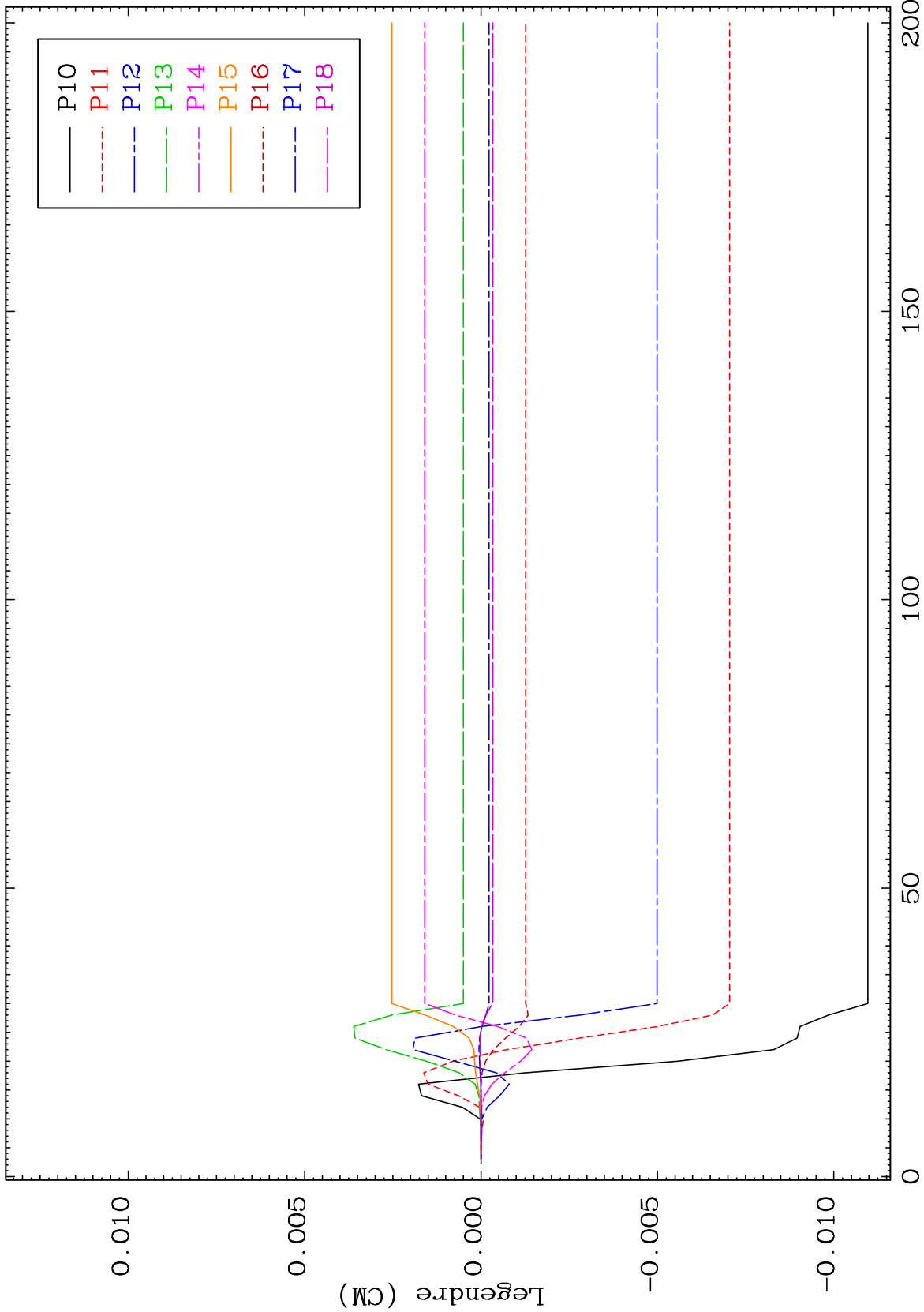
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



87

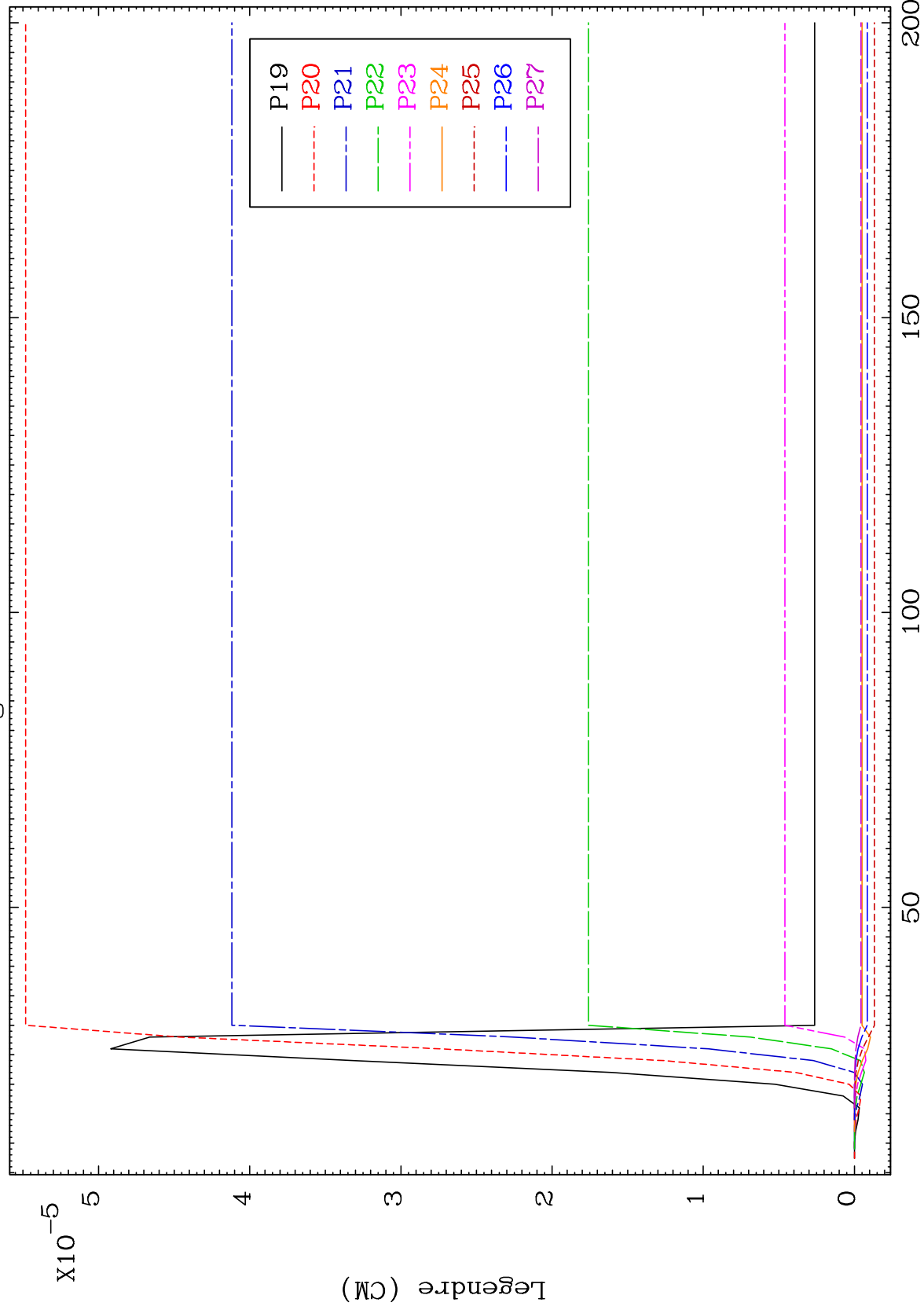
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



88

Incident Energy (MeV)

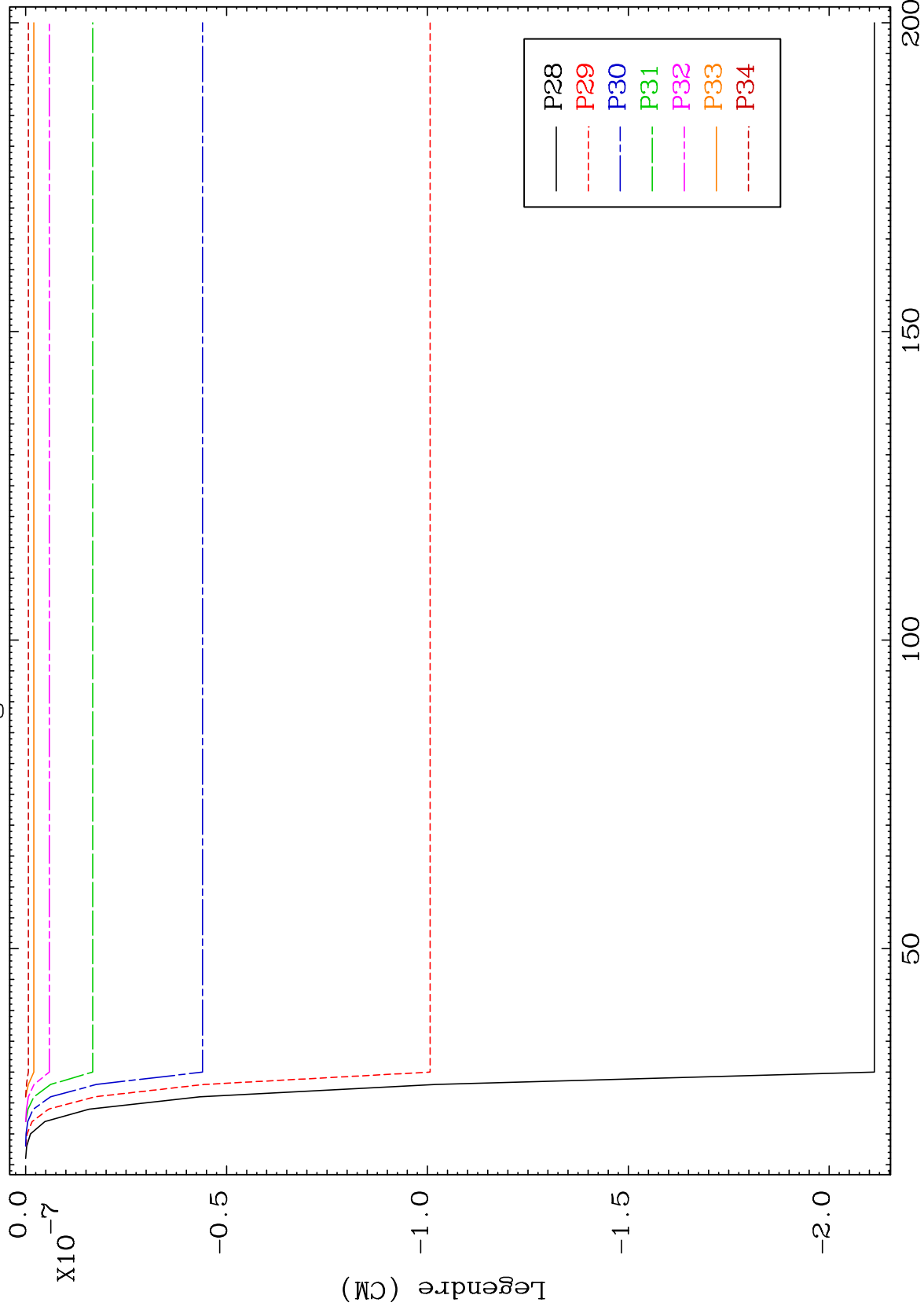
61-Pm-142

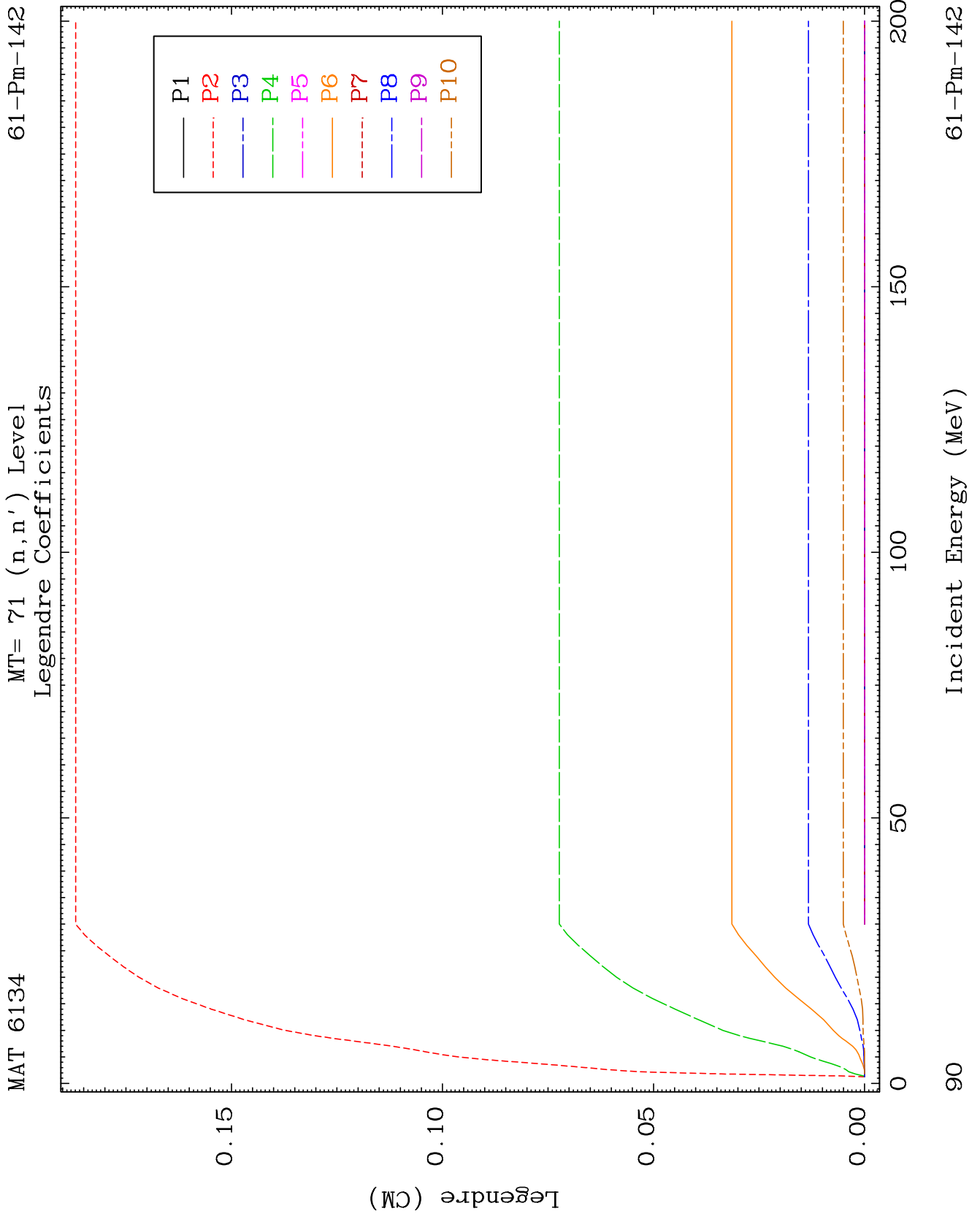
MAT 6134

MT= 70 (n,n') Level

61-Pm-142

Legendre Coefficients

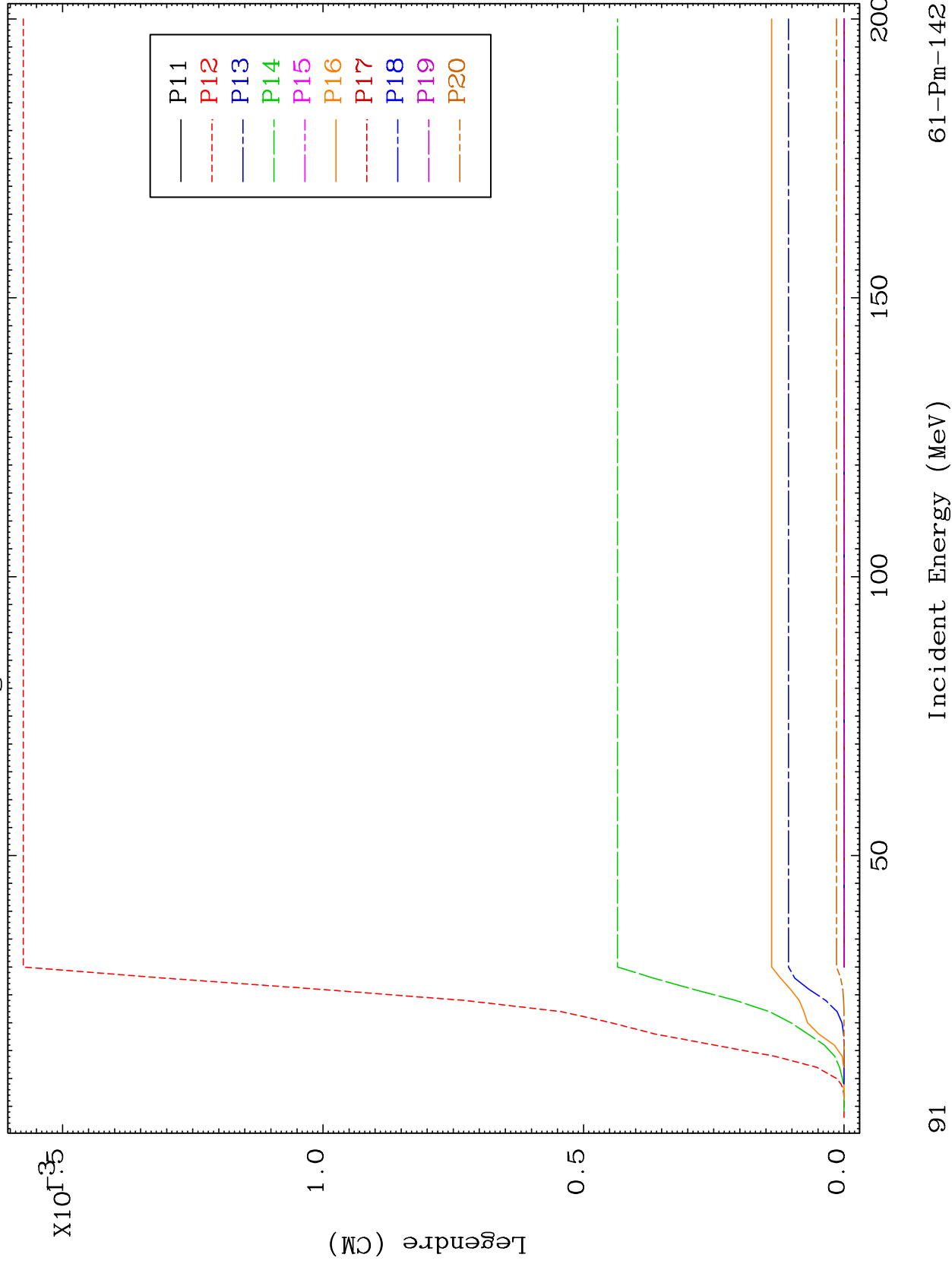




MAT 6134

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

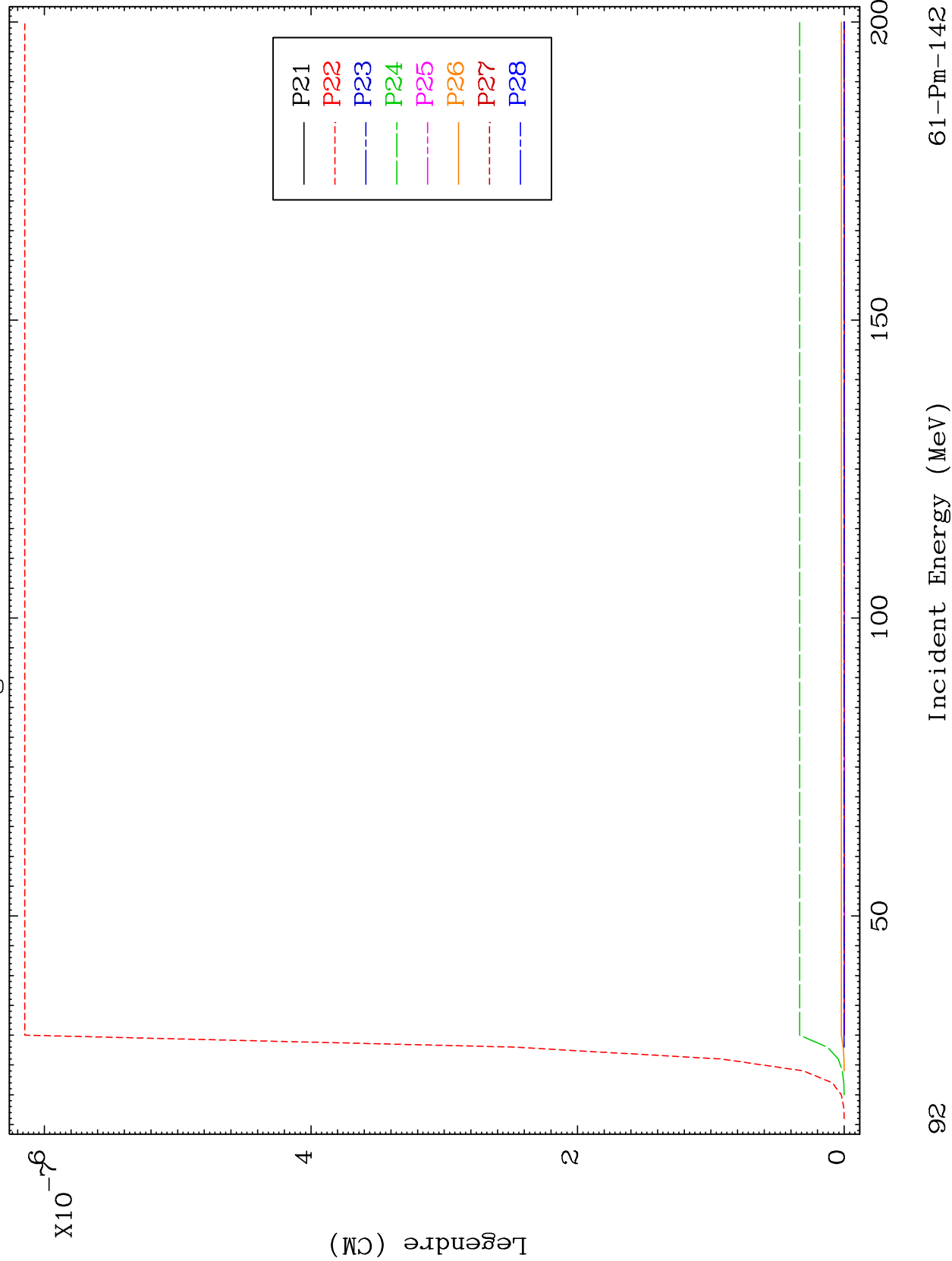
61-Pm-142



MAT 6134

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

61-Pm-142



92

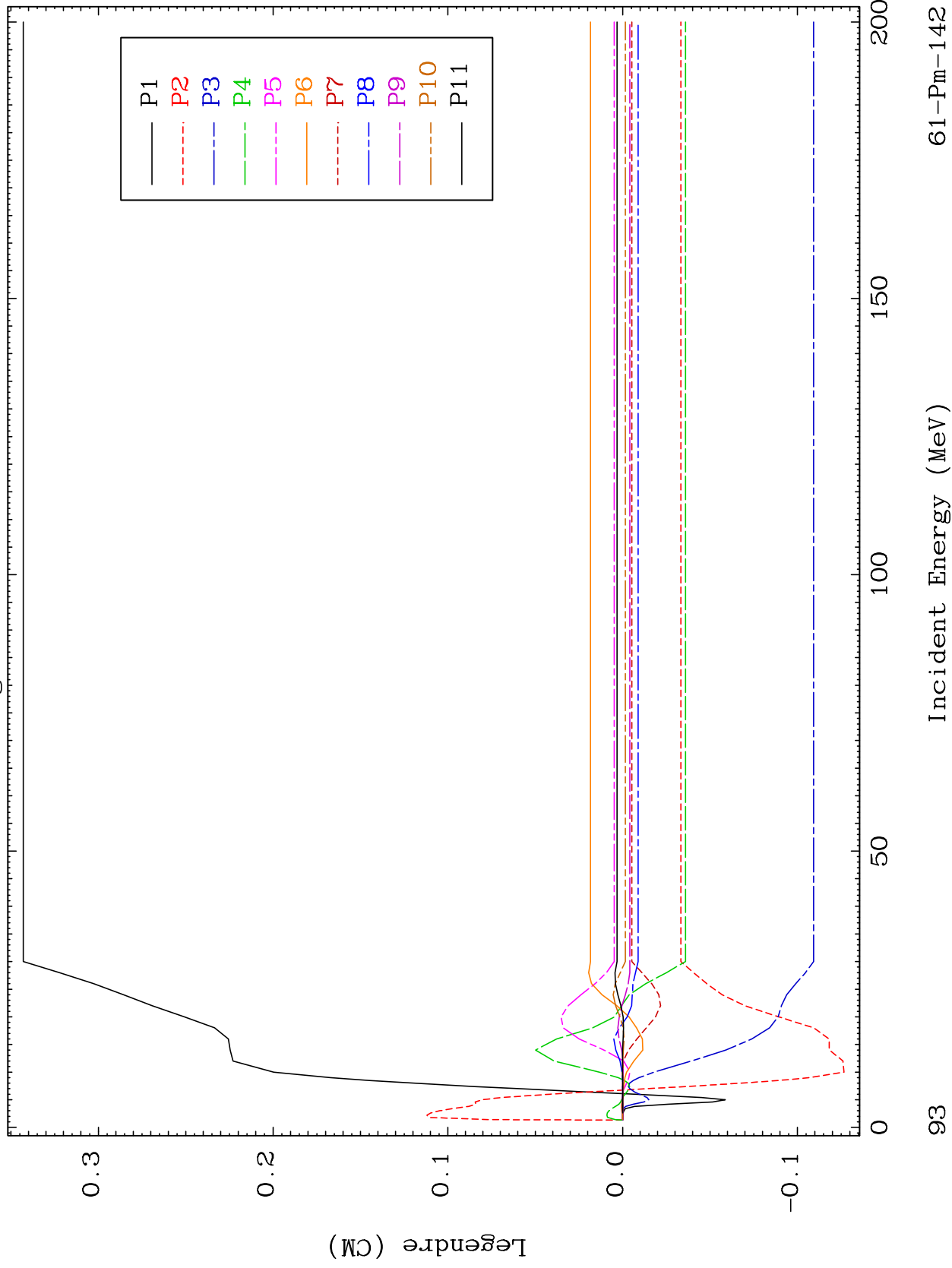
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



61-Pm-142

Incident Energy (MeV)

93

MAT 6134

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

61-Pm-142



94

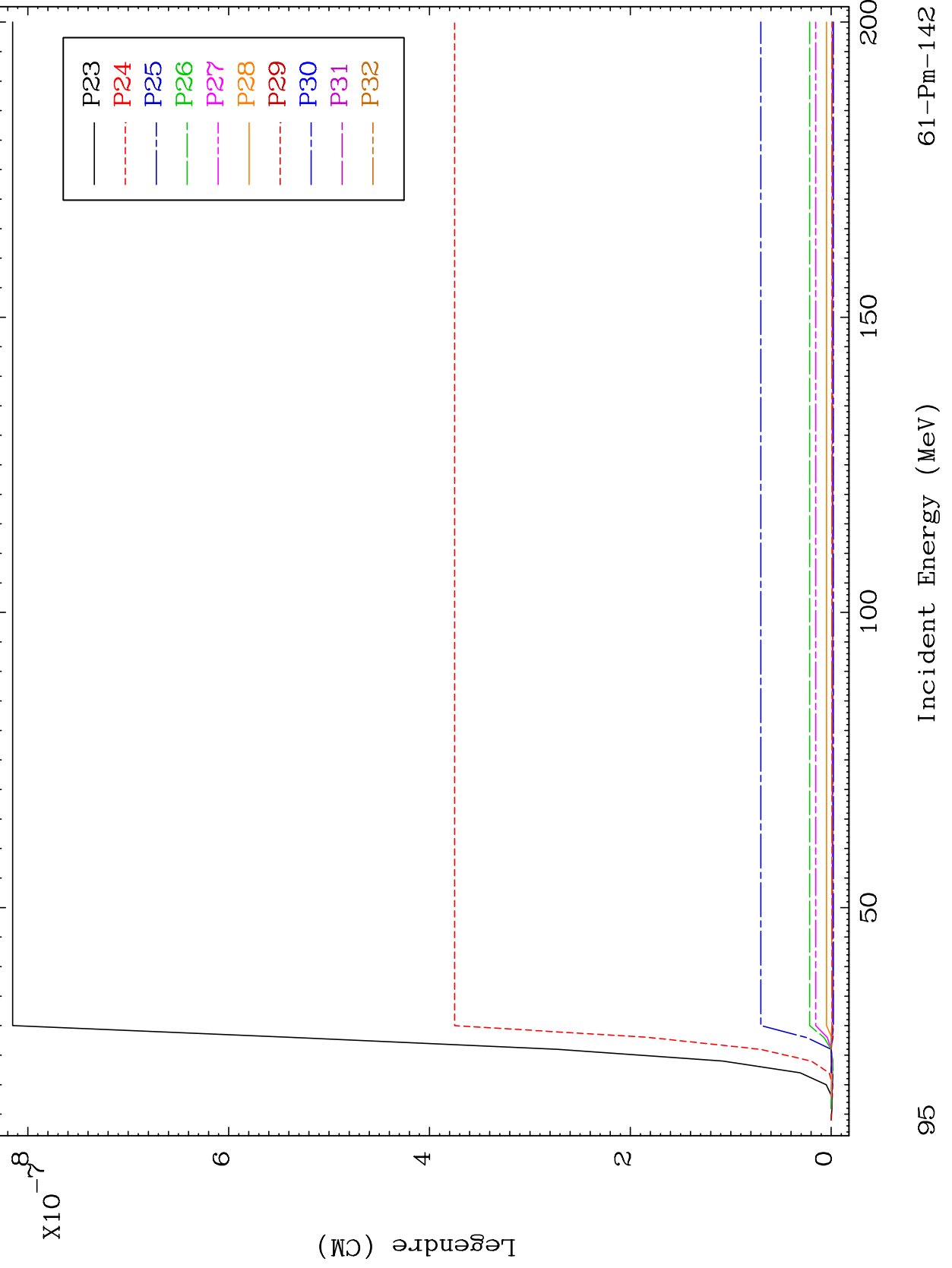
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

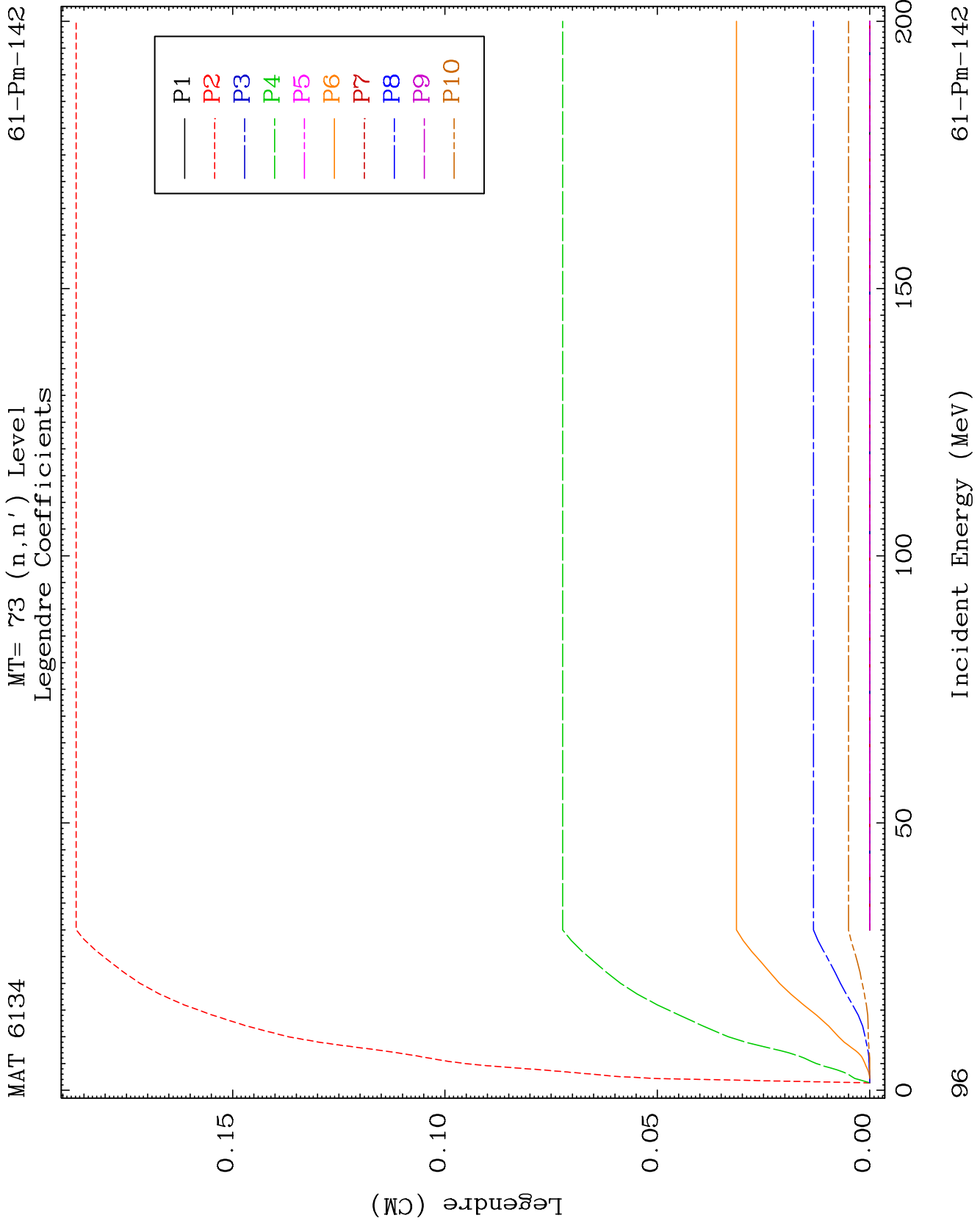
61-Pm-142



61-Pm-142

Incident Energy (MeV)

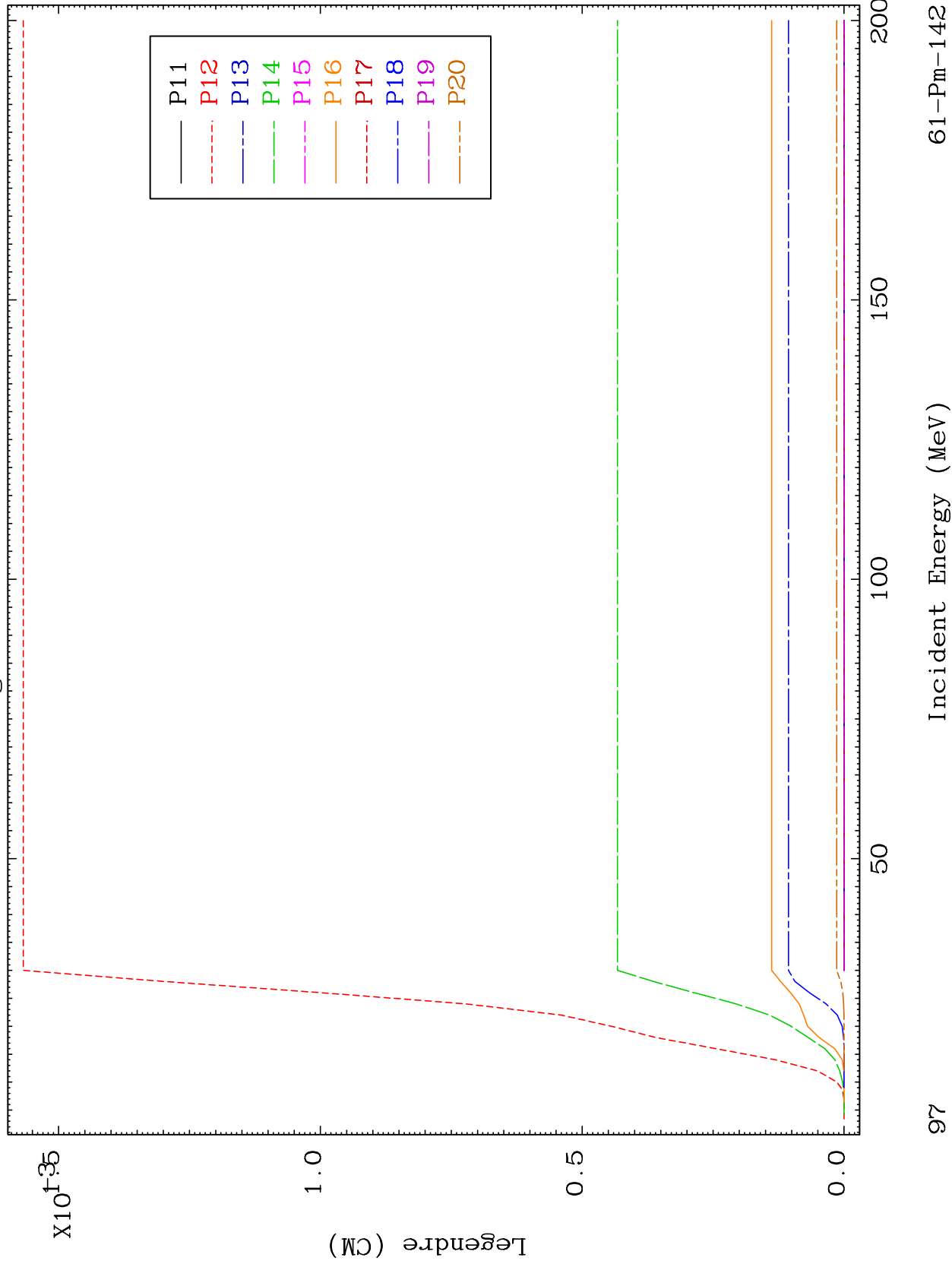
95



MAT 6134

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

61-Pm-142



97

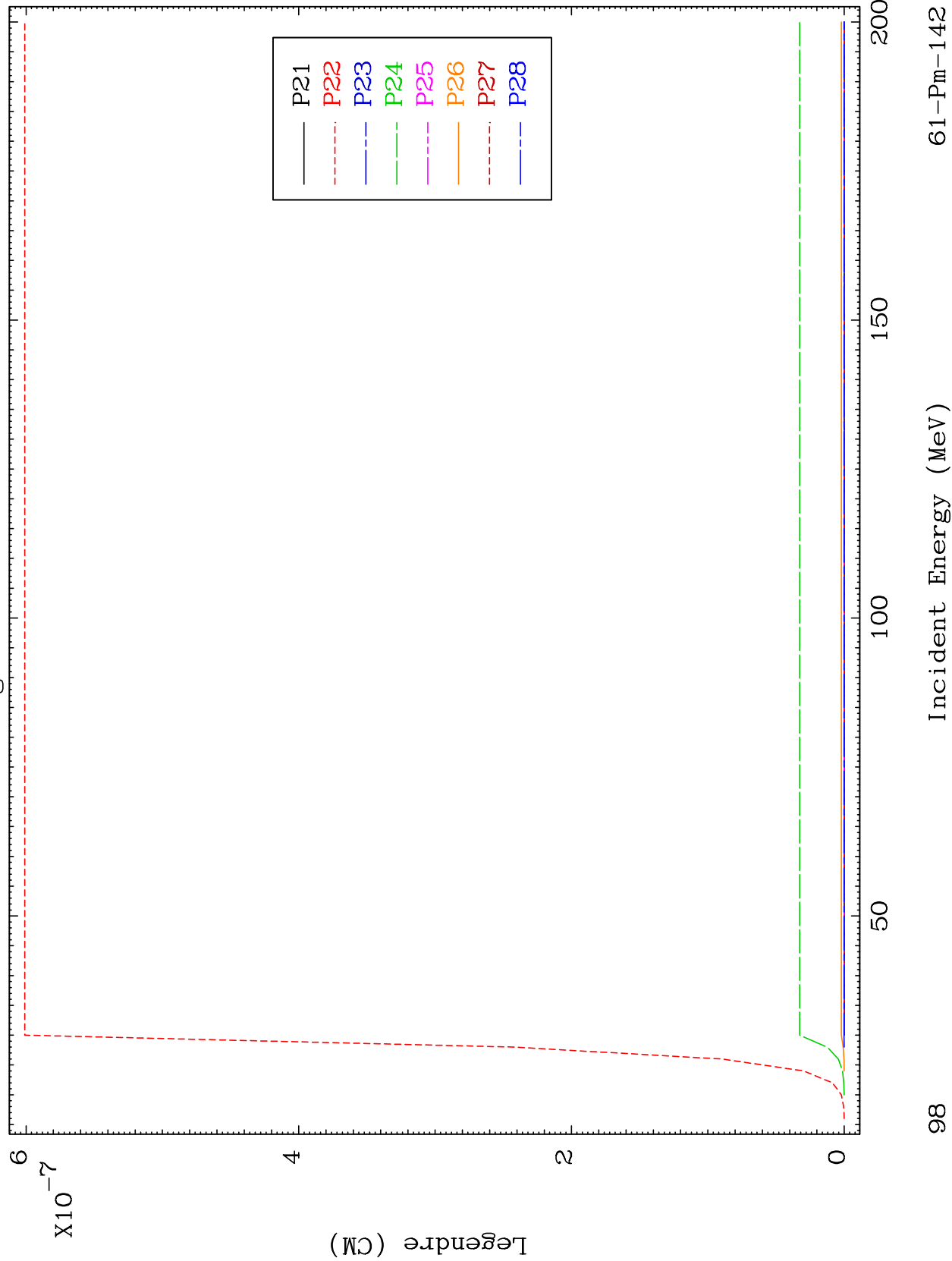
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



98

Incident Energy (MeV)

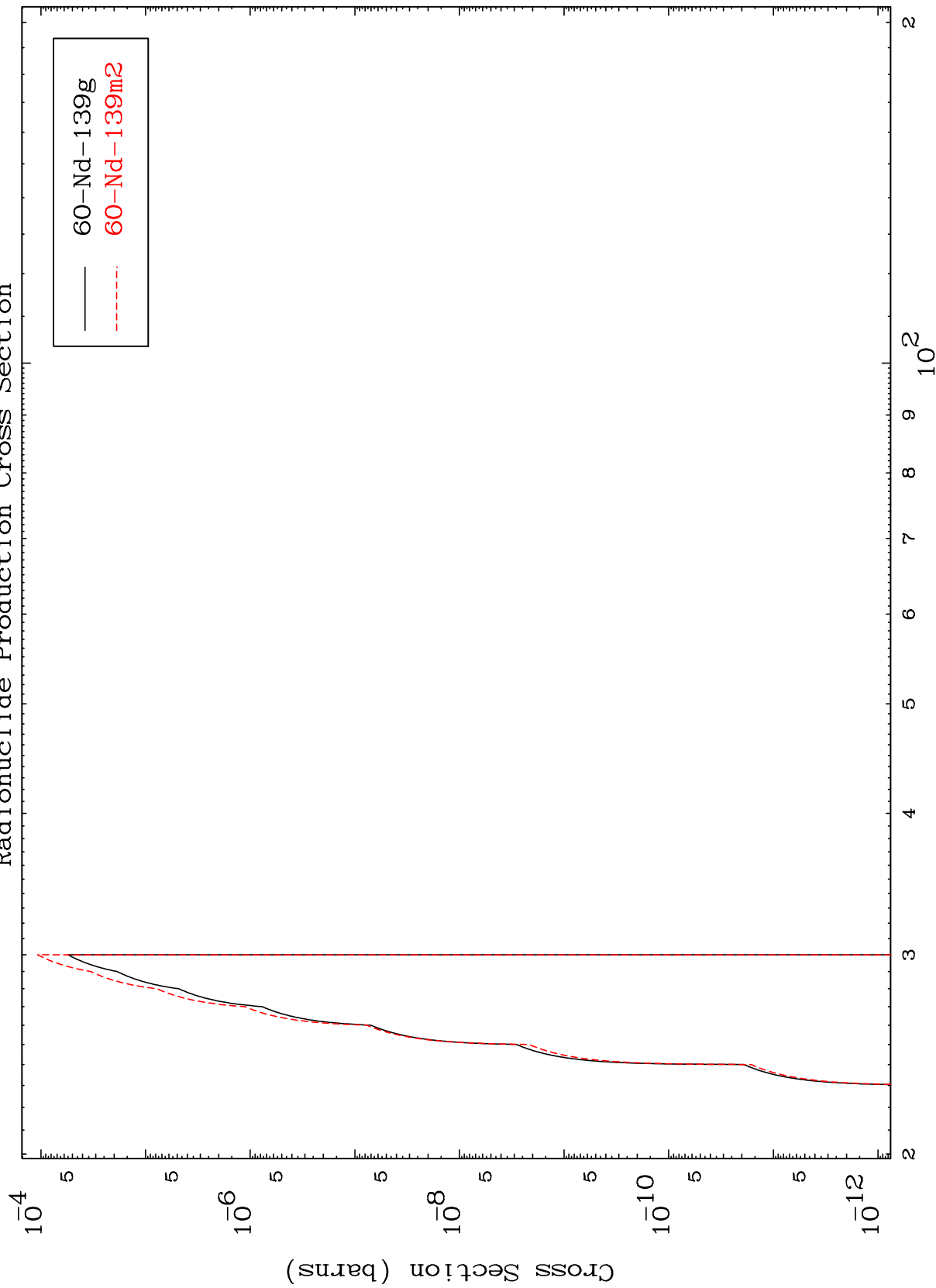
61-Pm-142

MAT 6134

(n,2n) d

61-Pm-142

Radionuclide Production Cross Section



99

Incident Energy (MeV)

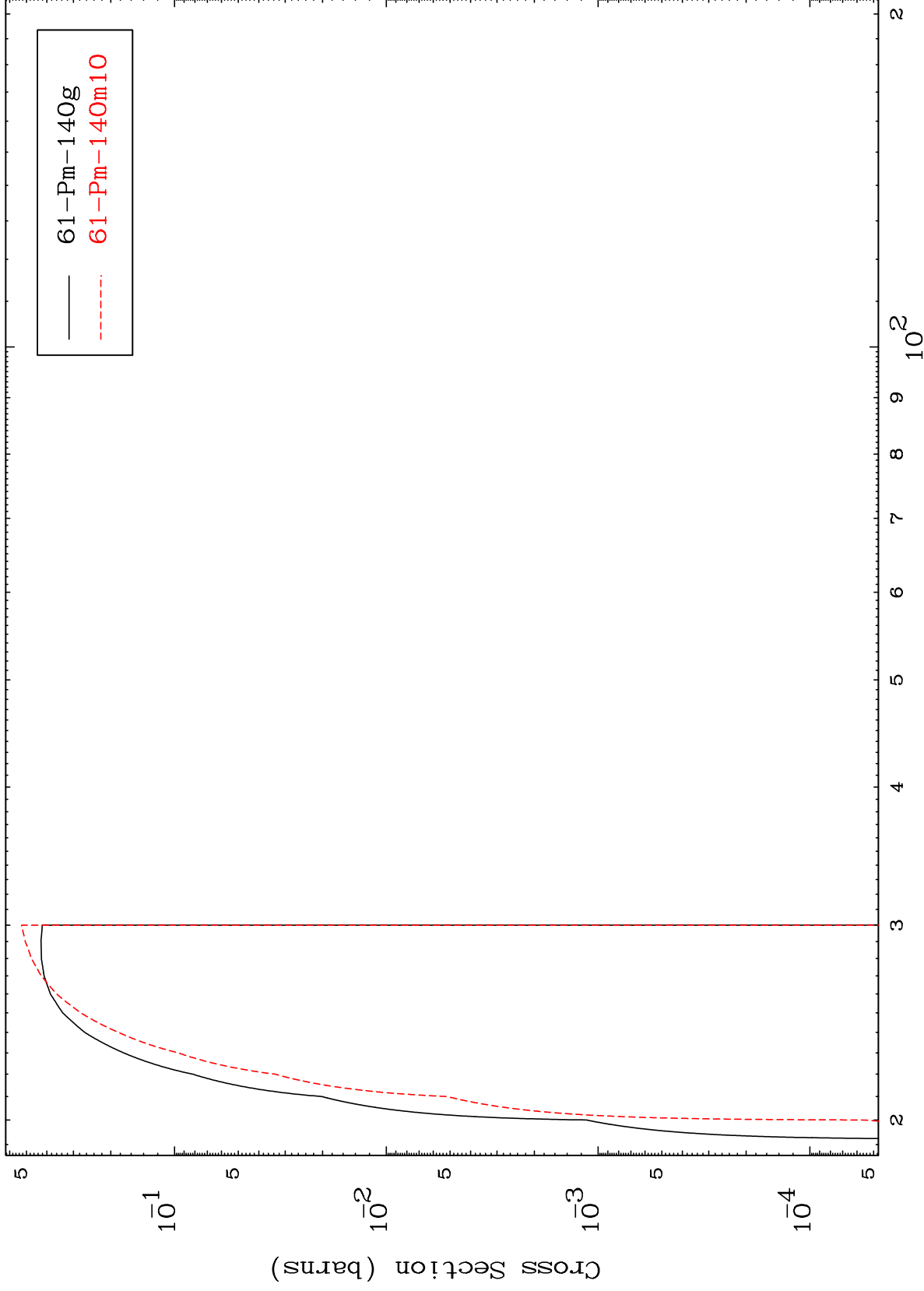
61-Pm-142

MAT 6134

(n,3n)

61-Pm-142

Radionuclide Production Cross Section



Incident Energy (MeV)

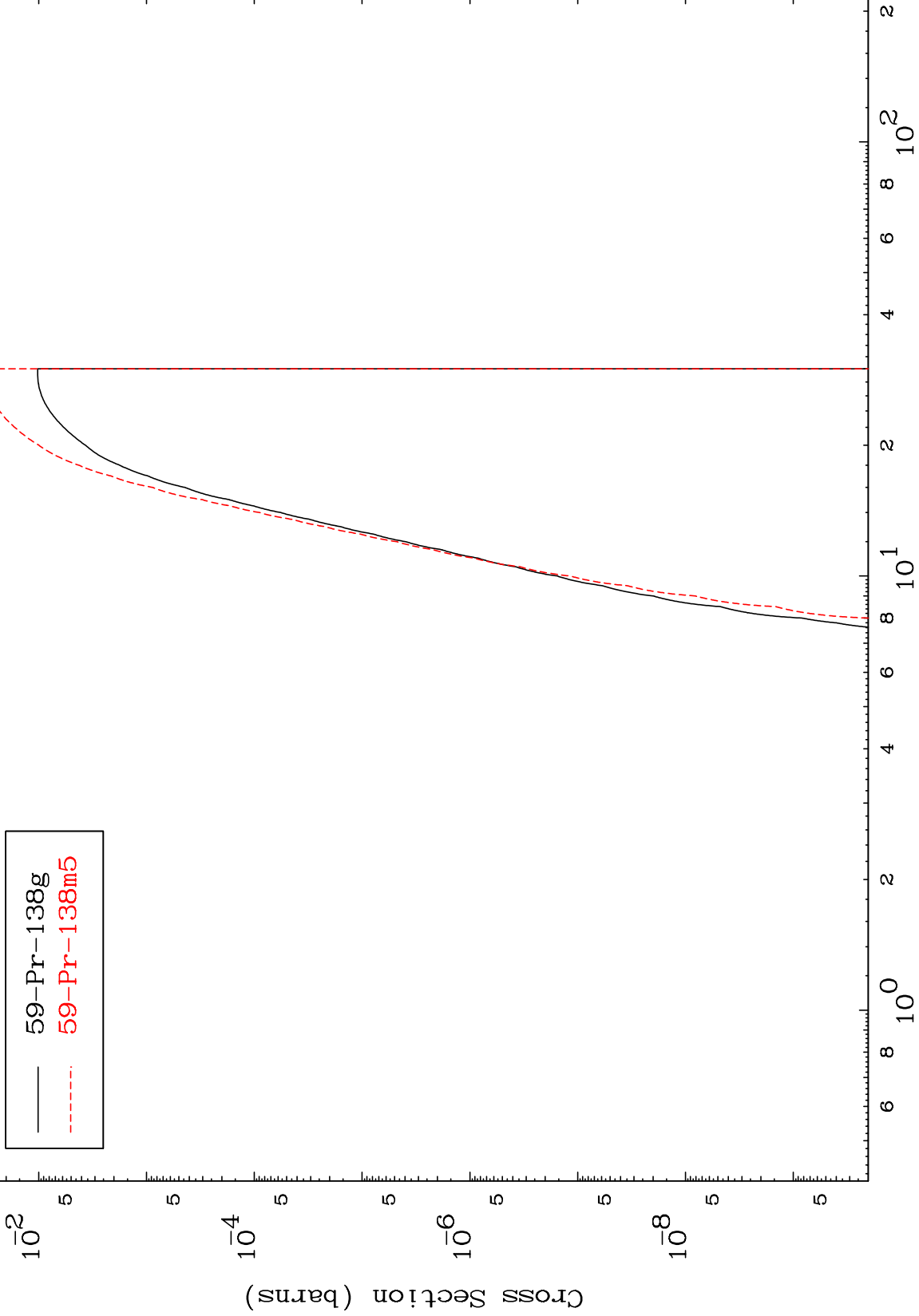
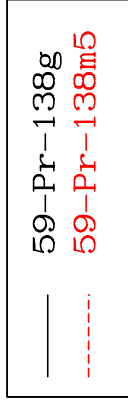
61-Pm-142

MAT 6134

(n,n') α

61-Pm-142

Radionuclide Production Cross Section



101

Incident Energy (MeV)

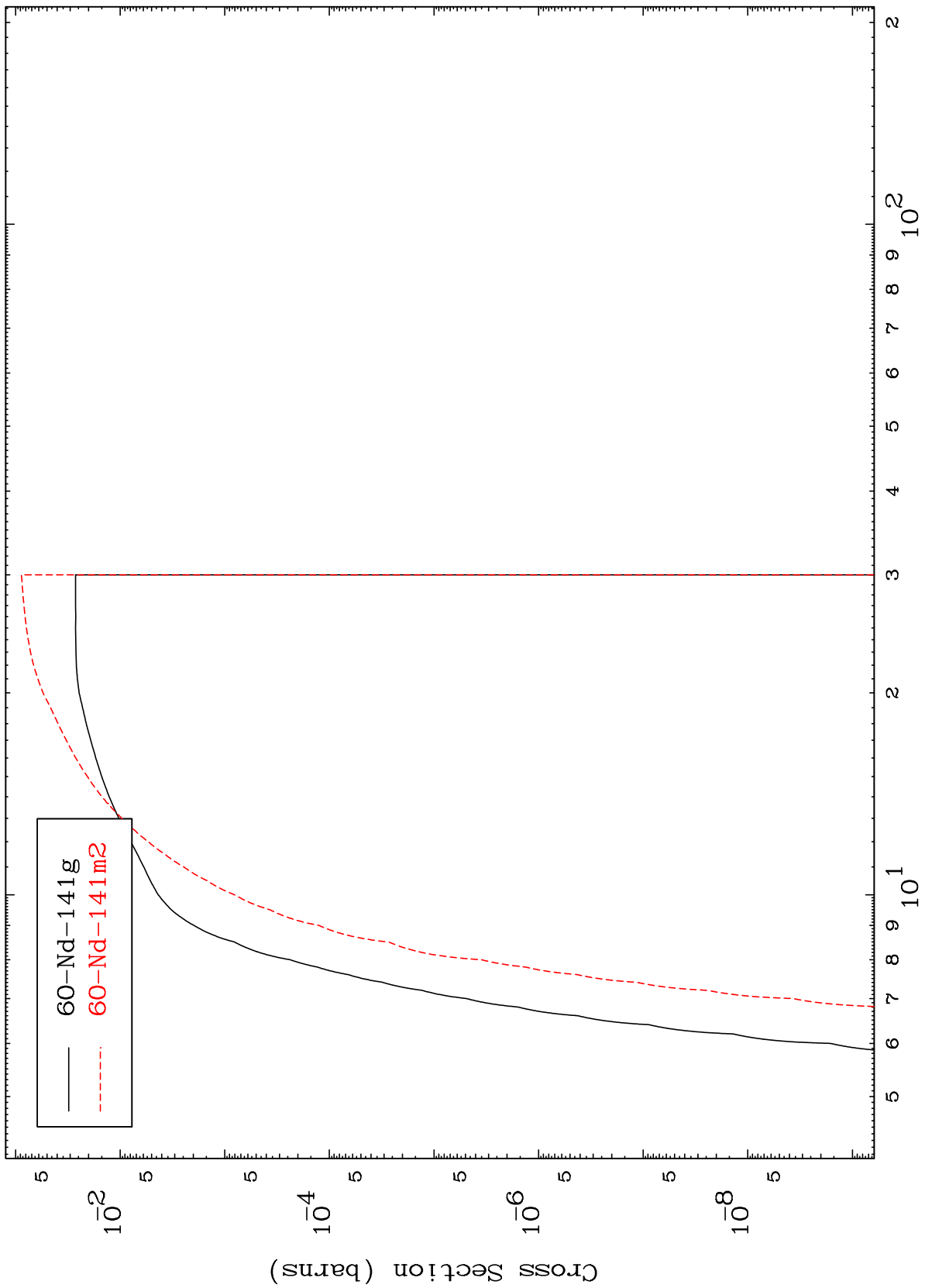
61-Pm-142

MAT 6134

(n,n') p

61-Pm-142

Radionuclide Production Cross Section



102

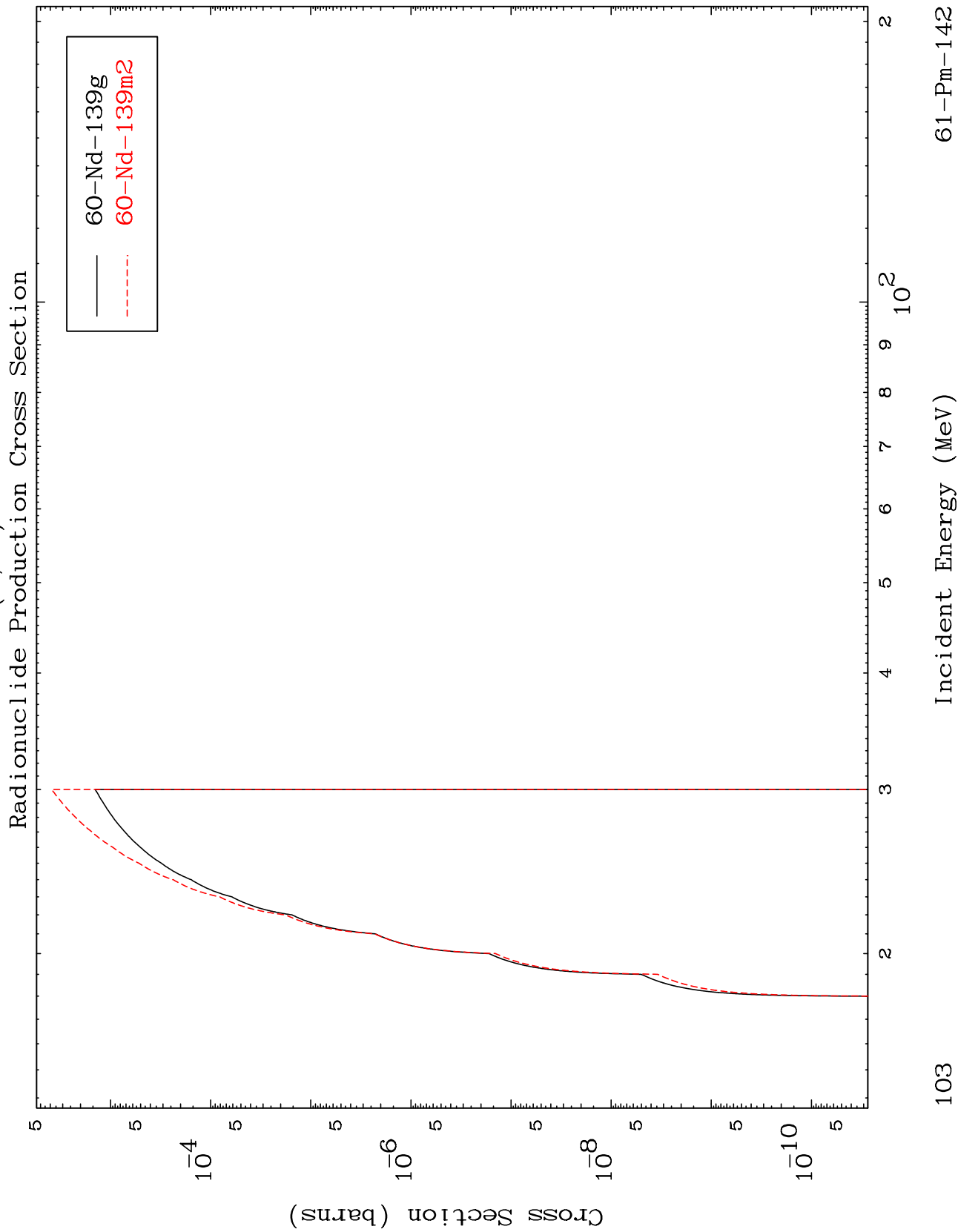
Incident Energy (MeV)

61-Pm-142

MAT 6134

(n,n') t

61-Pm-142



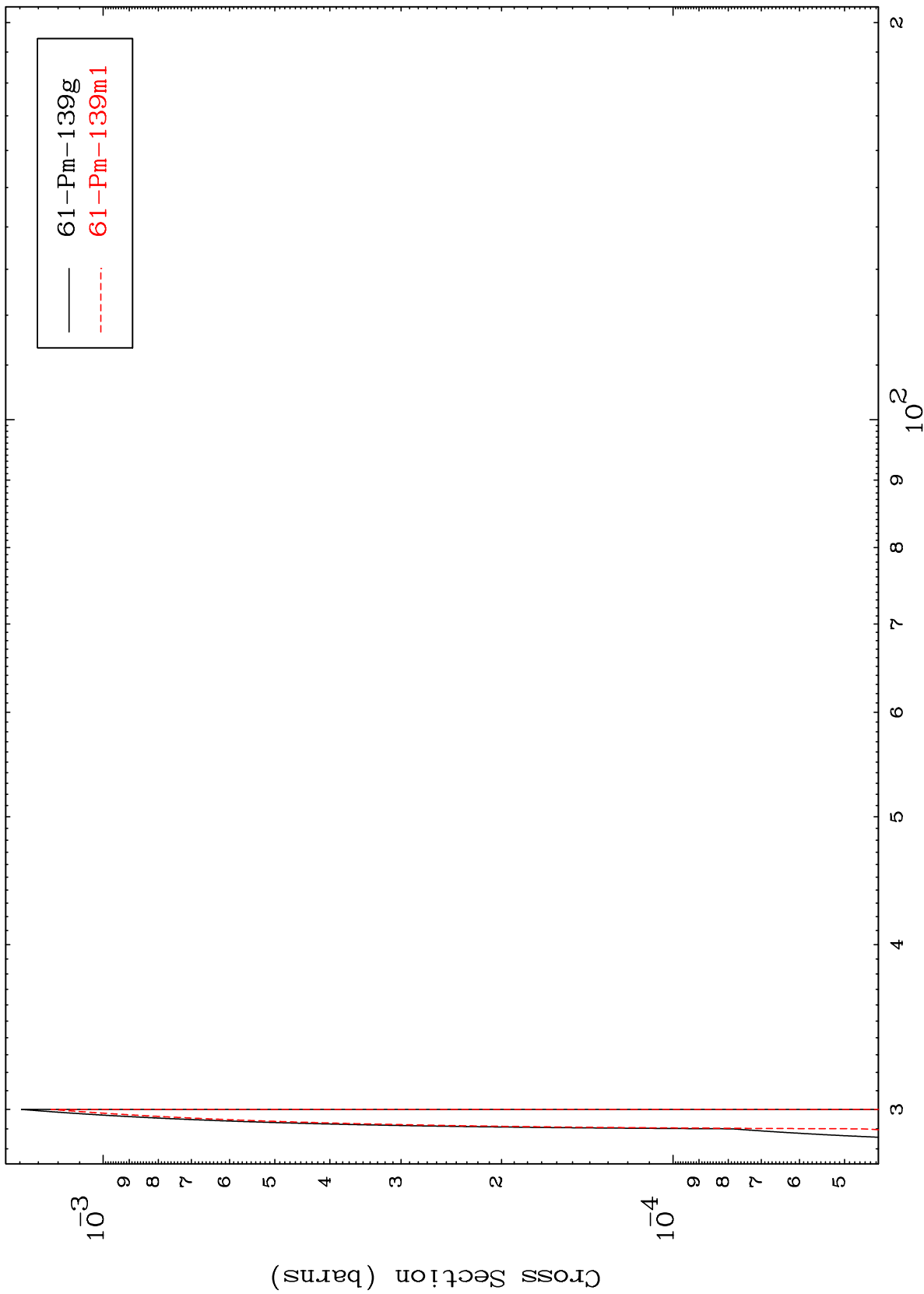
103

61-Pm-142

MAT 6134

61-Pm-142

(n,4n)
Radionuclide Production Cross Section



61-Pm-139g
61-Pm-139m1

104

61-Pm-142

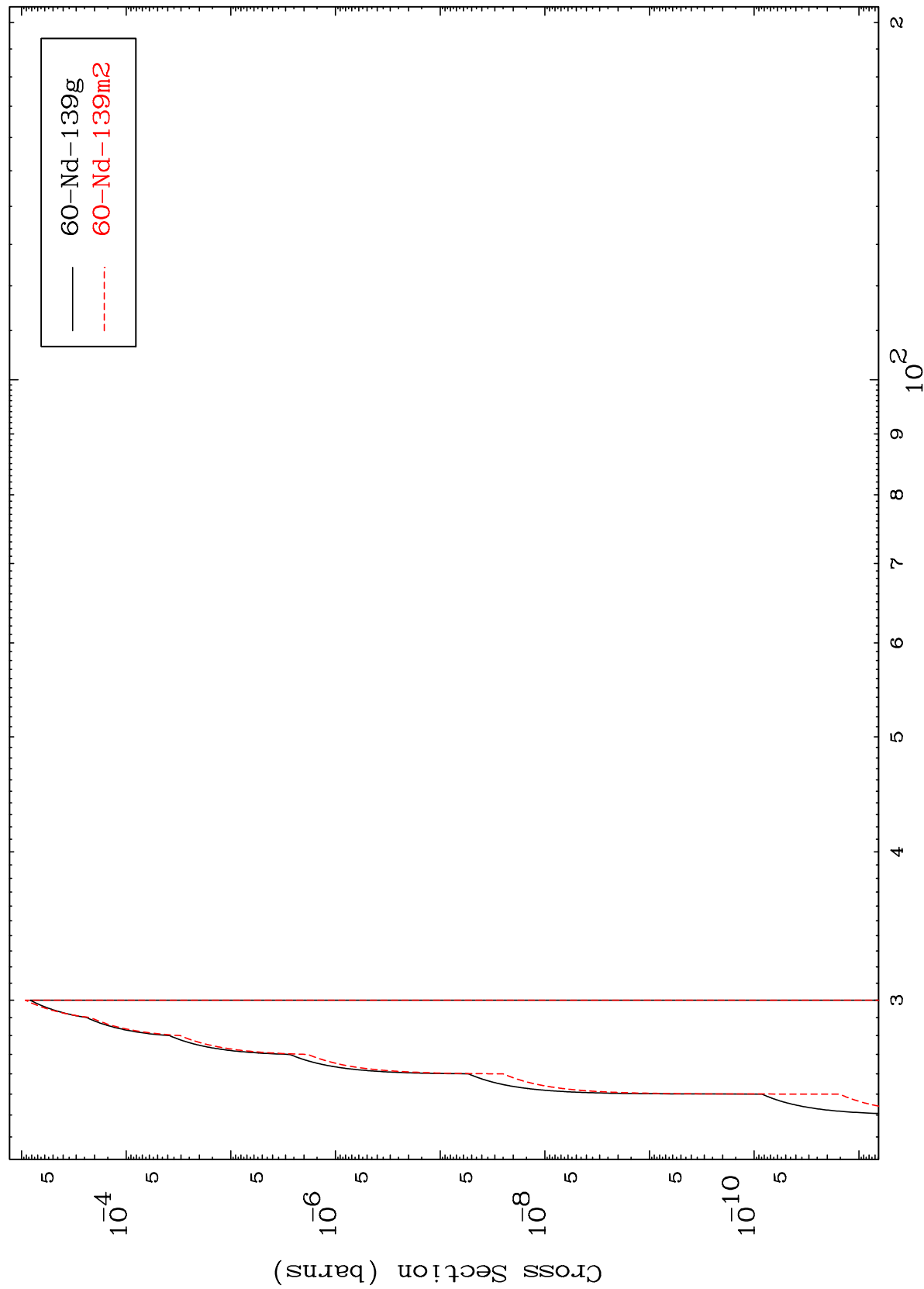
Incident Energy (MeV)

MAT 6134

(n,3n) p

61-Pm-142

Radionuclide Production Cross Section



105

Incident Energy (MeV)

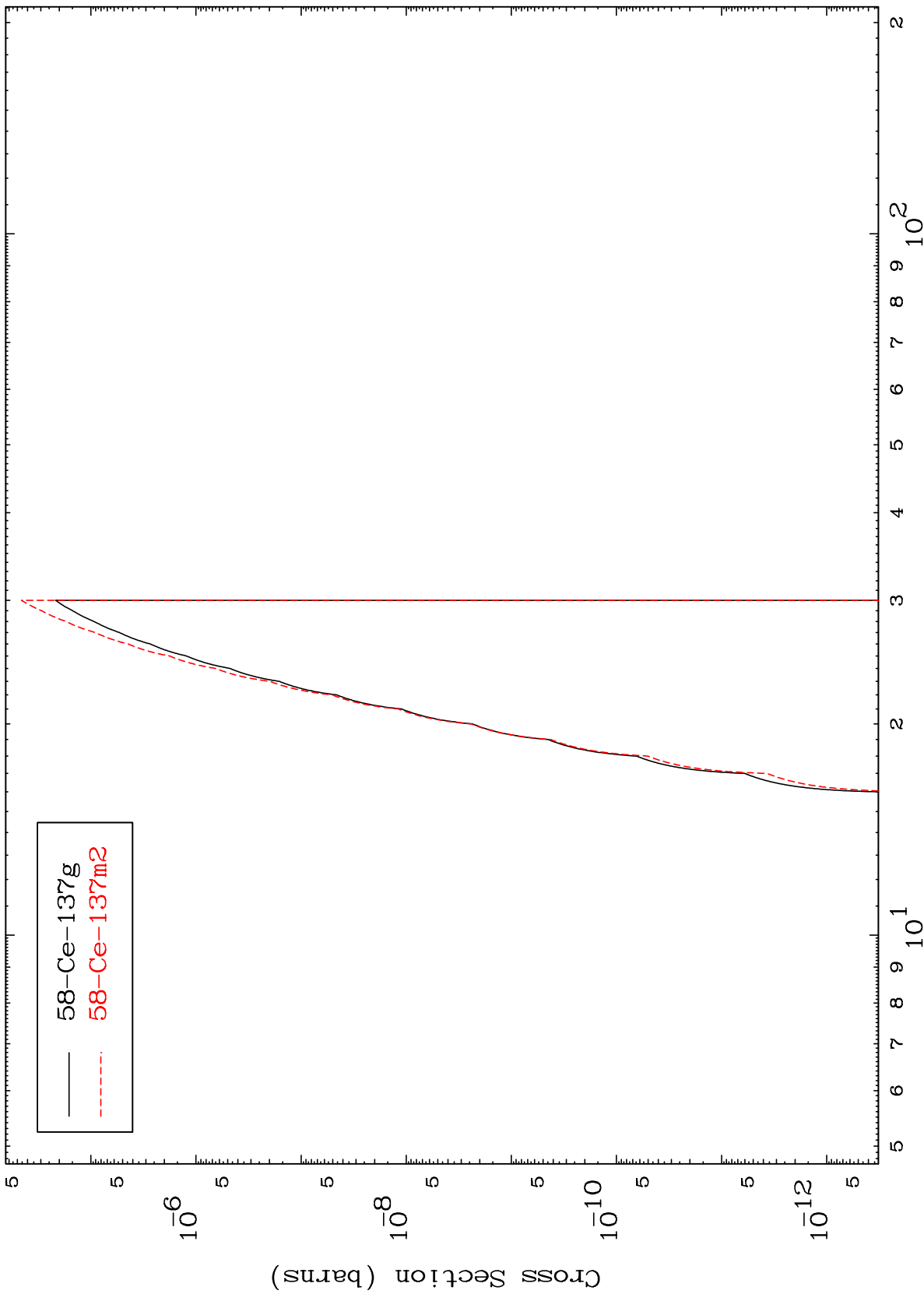
61-Pm-142

MAT 6134

(n,n') p α

61-Pm-142

Radionuclide Production Cross Section



58-Ce-137g
58-Ce-137m2

106

Incident Energy (MeV)

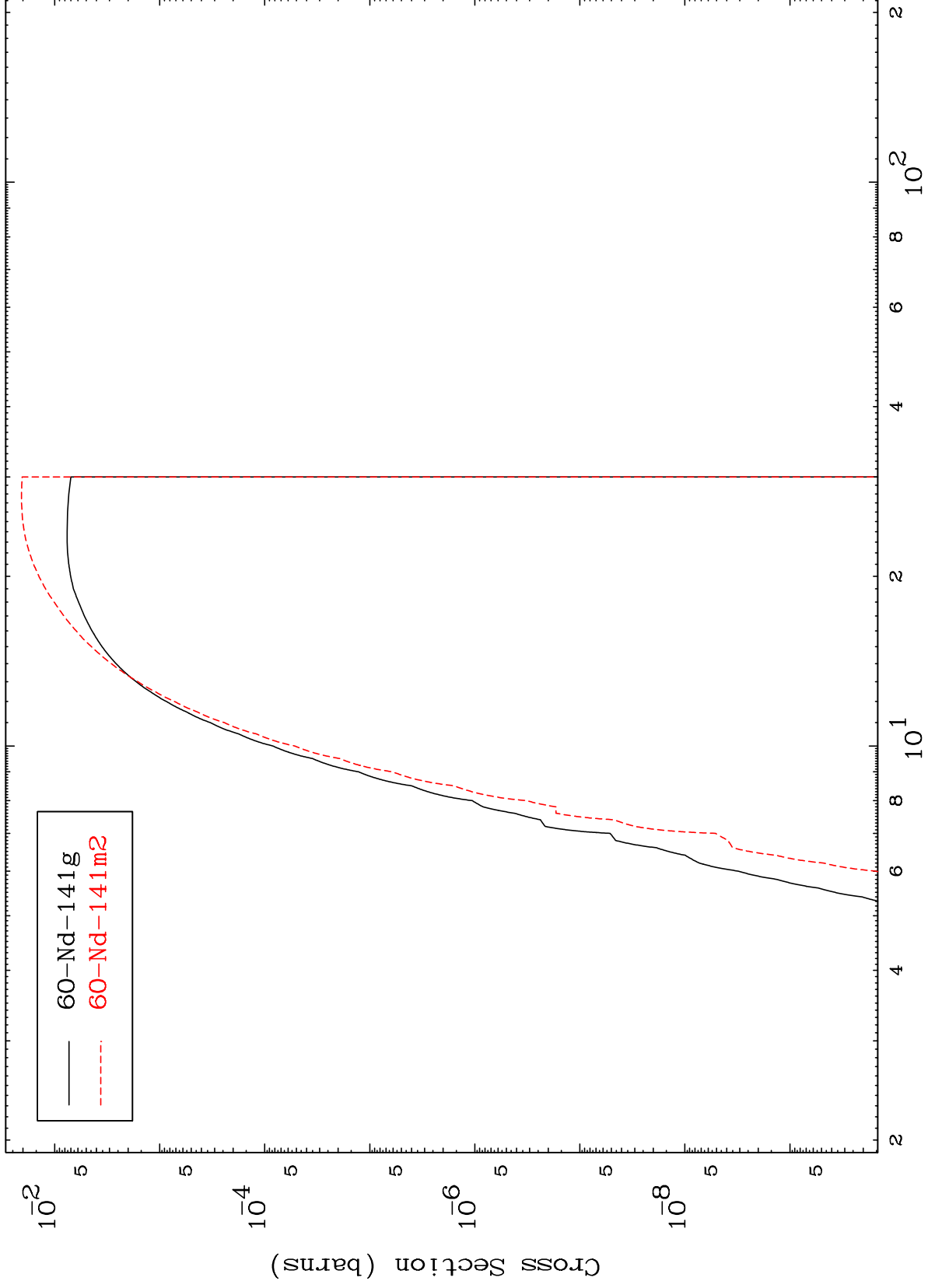
61-Pm-142

MAT 6134

(n,d)

61-Pm-142

Radionuclide Production Cross Section



107

Incident Energy (MeV)

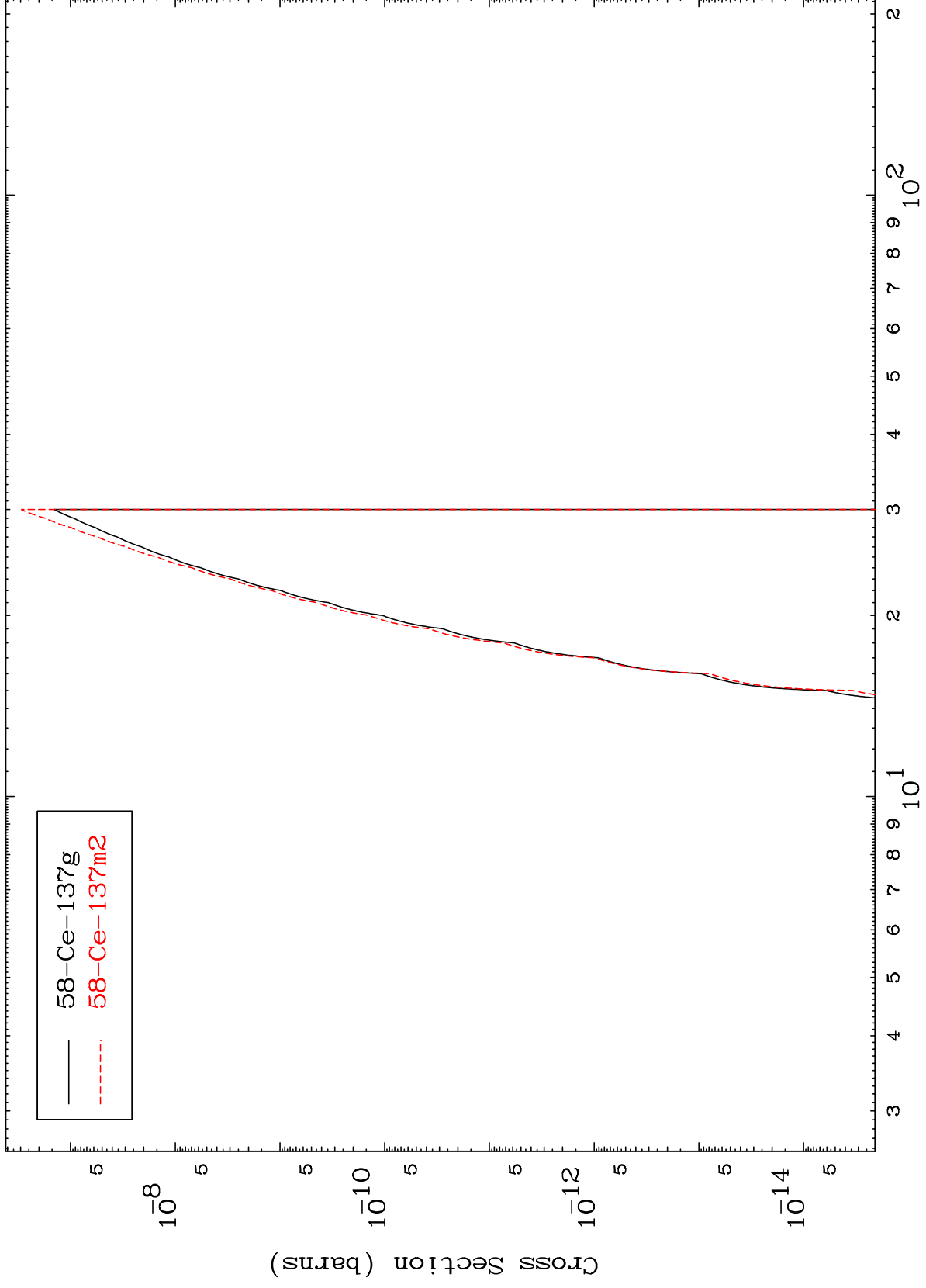
61-Pm-142

MAT 6134

(n,d) α

61-Pm-142

Radionuclide Production Cross Section



58-Ce-137g
58-Ce-137m2