

Program EVALPLOT
(Version 2021-1)

by

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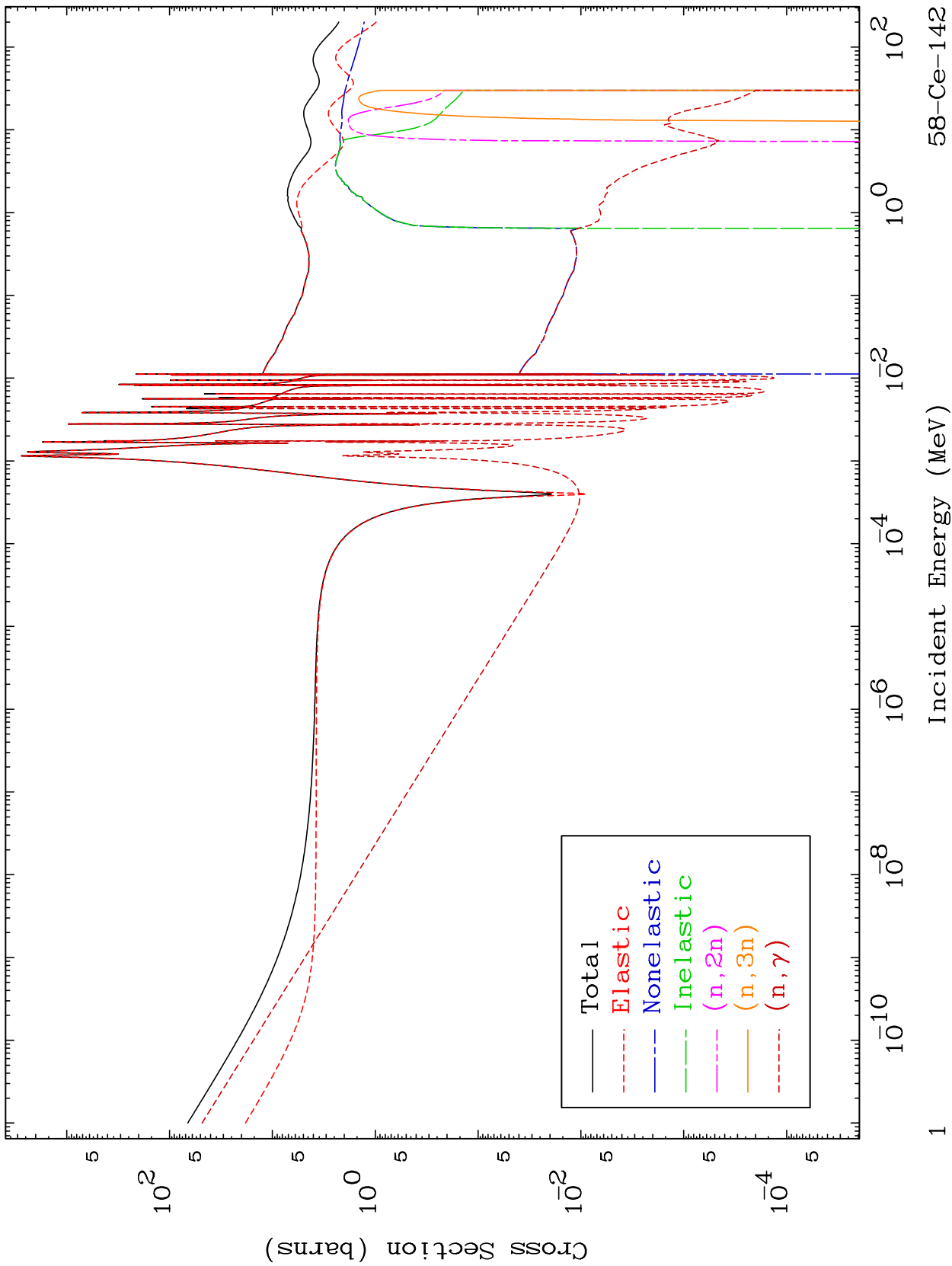
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5843

Neutron Major
293 Kelvin Cross Sections

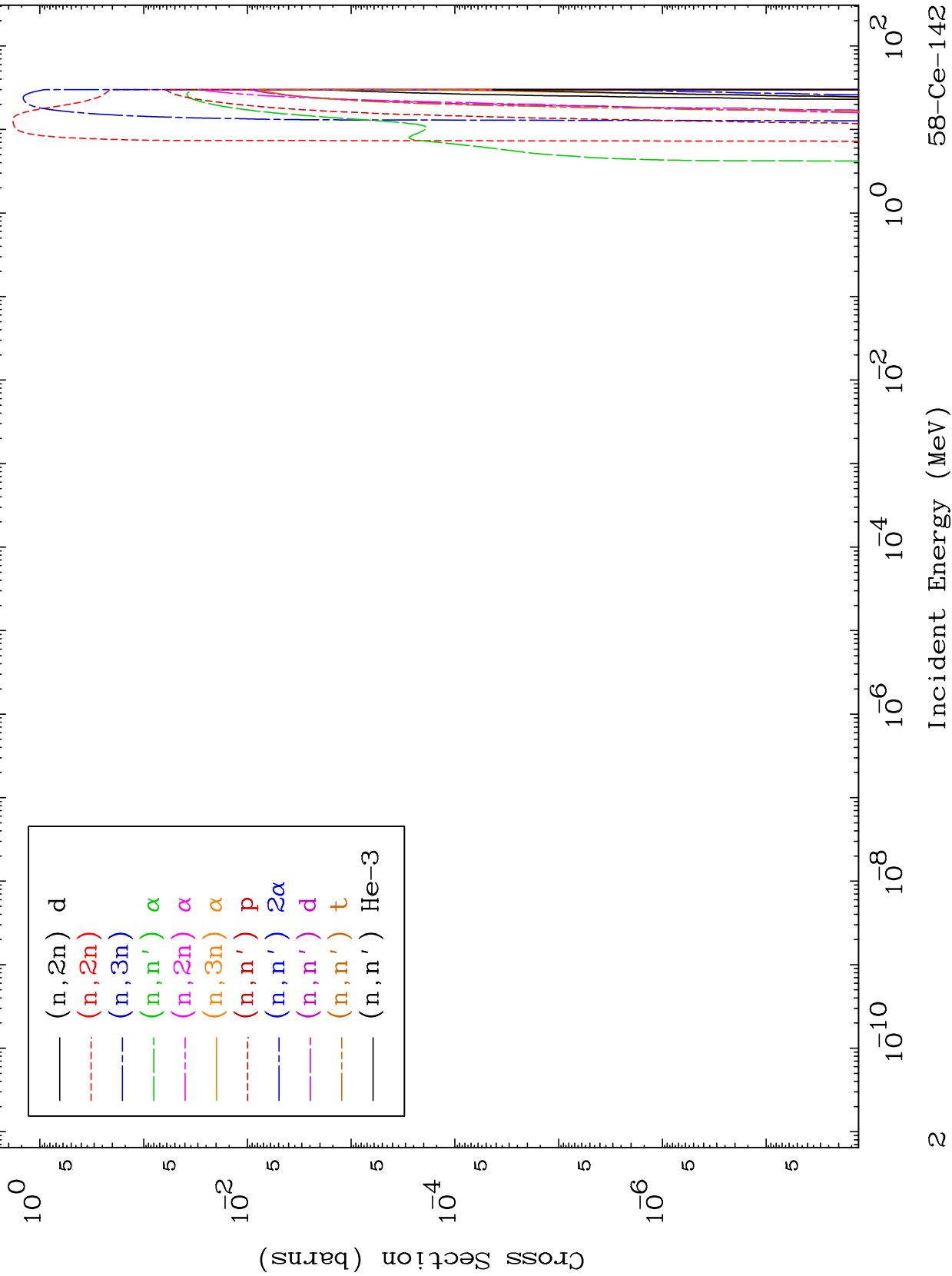
58-Ce-142



MAT 5843

Neutron Absorption
293 Kelvin Cross Sections

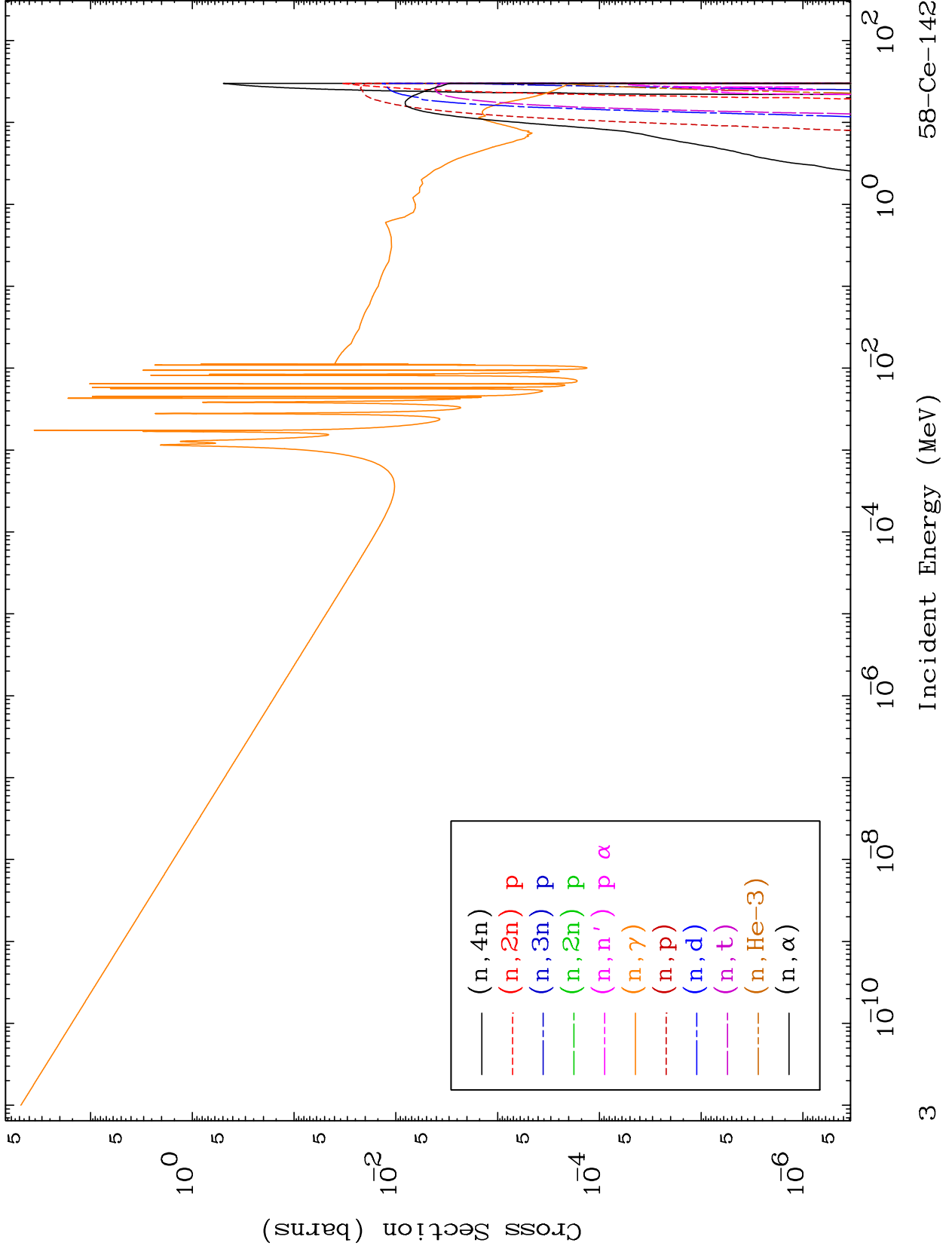
58-Ce-142



MAT 5843

Neutron Absorption
293 Kelvin Cross Sections

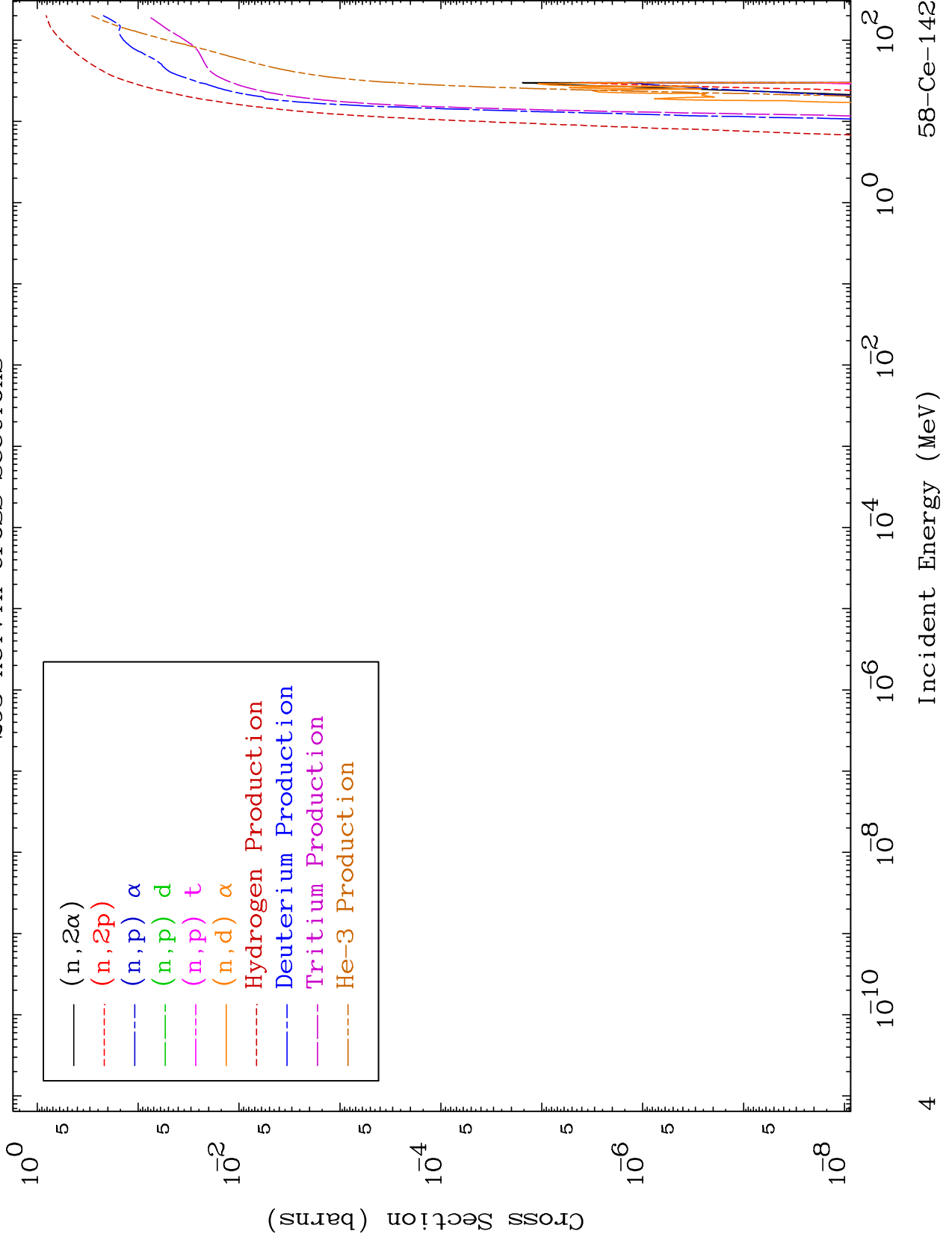
58-Ce-142



MAT 5843

Neutron Absorption
293 Kelvin Cross Sections

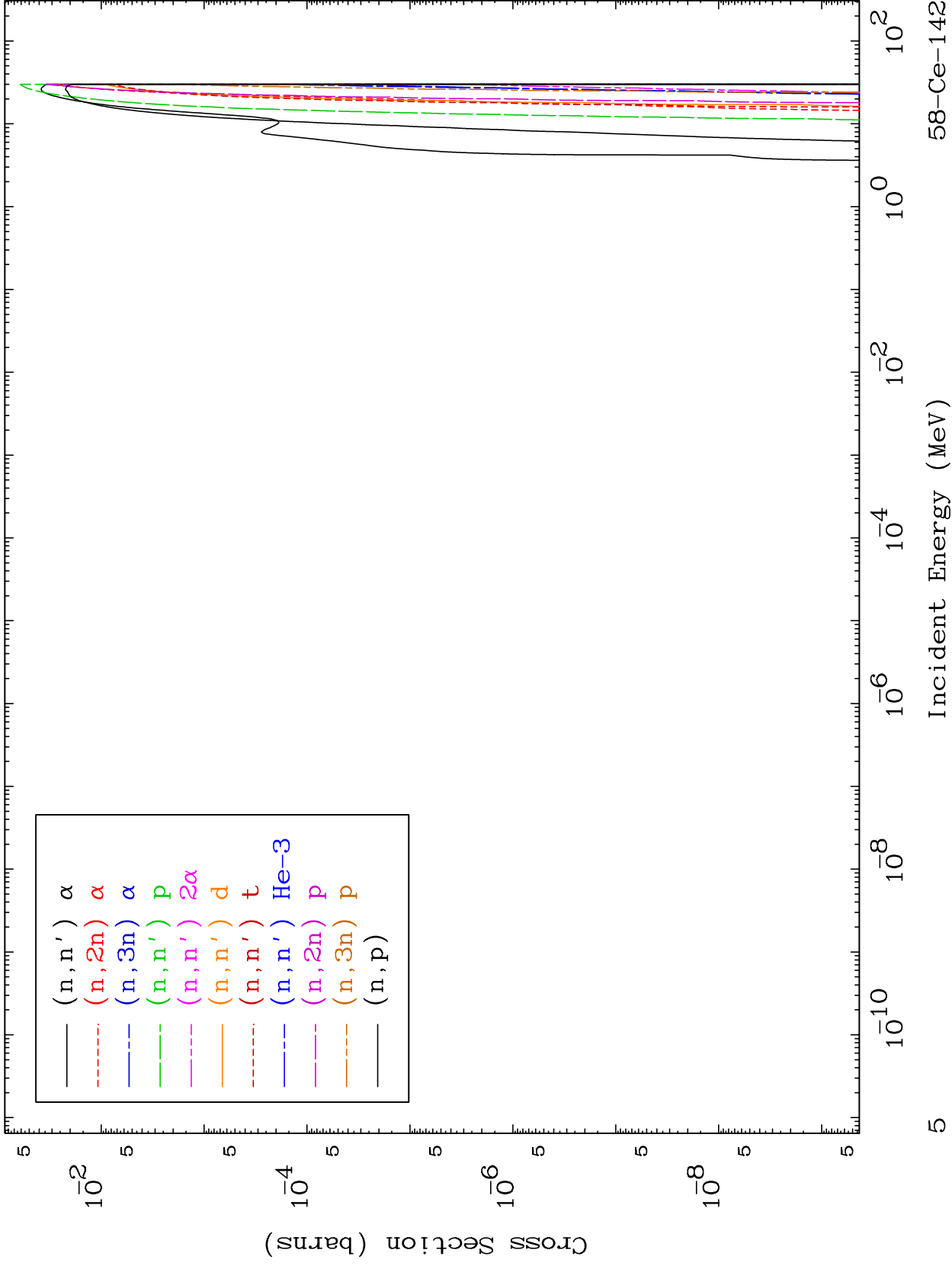
58-Ce-142



MAT 5843

Charged Particle
293 Kelvin Cross Sections

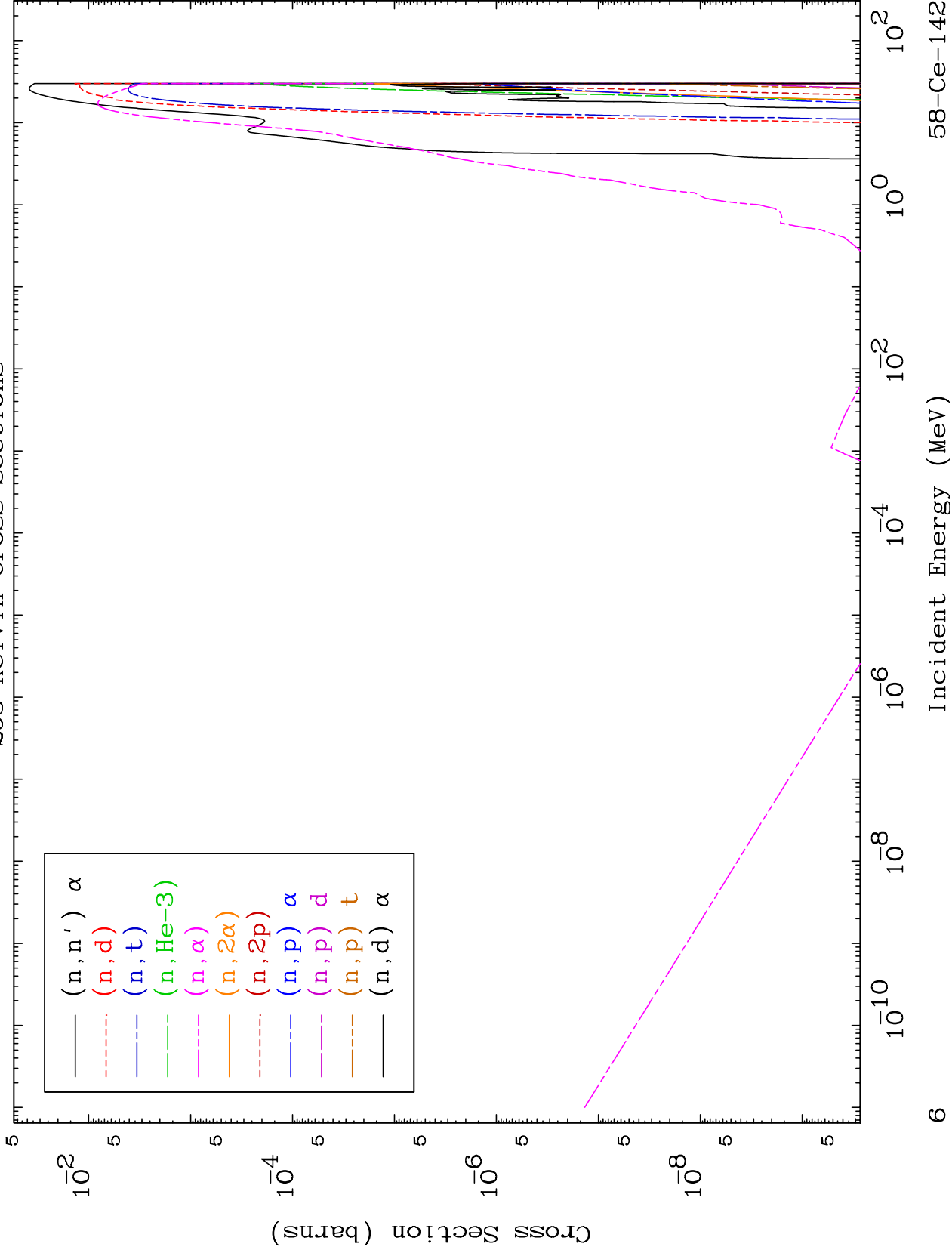
58-Ce-142



MAT 5843

Charged Particle
293 Kelvin Cross Sections

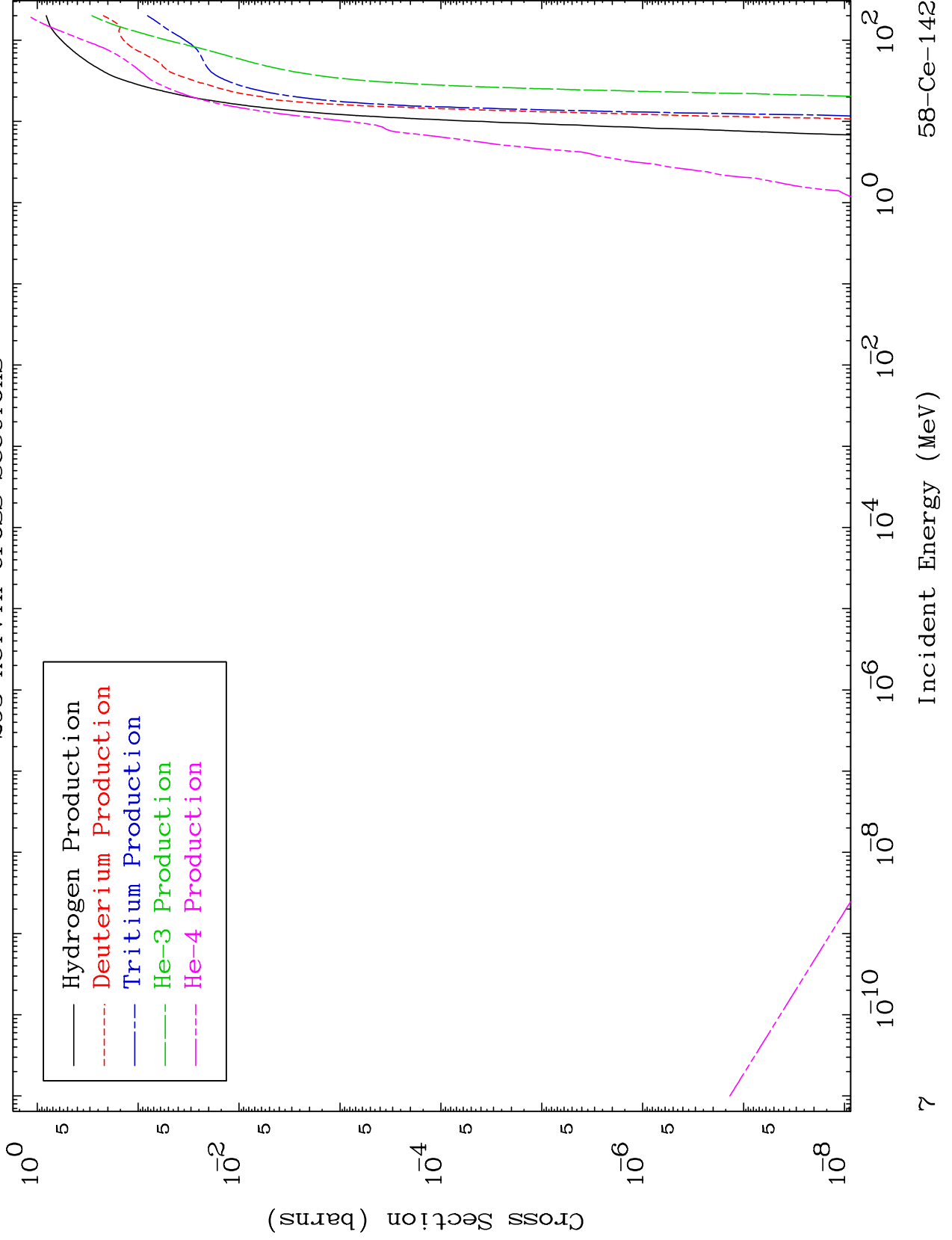
58-Ce-142



MAT 5843

Particle Production
293 Kelvin Cross Sections

58-Ce-142

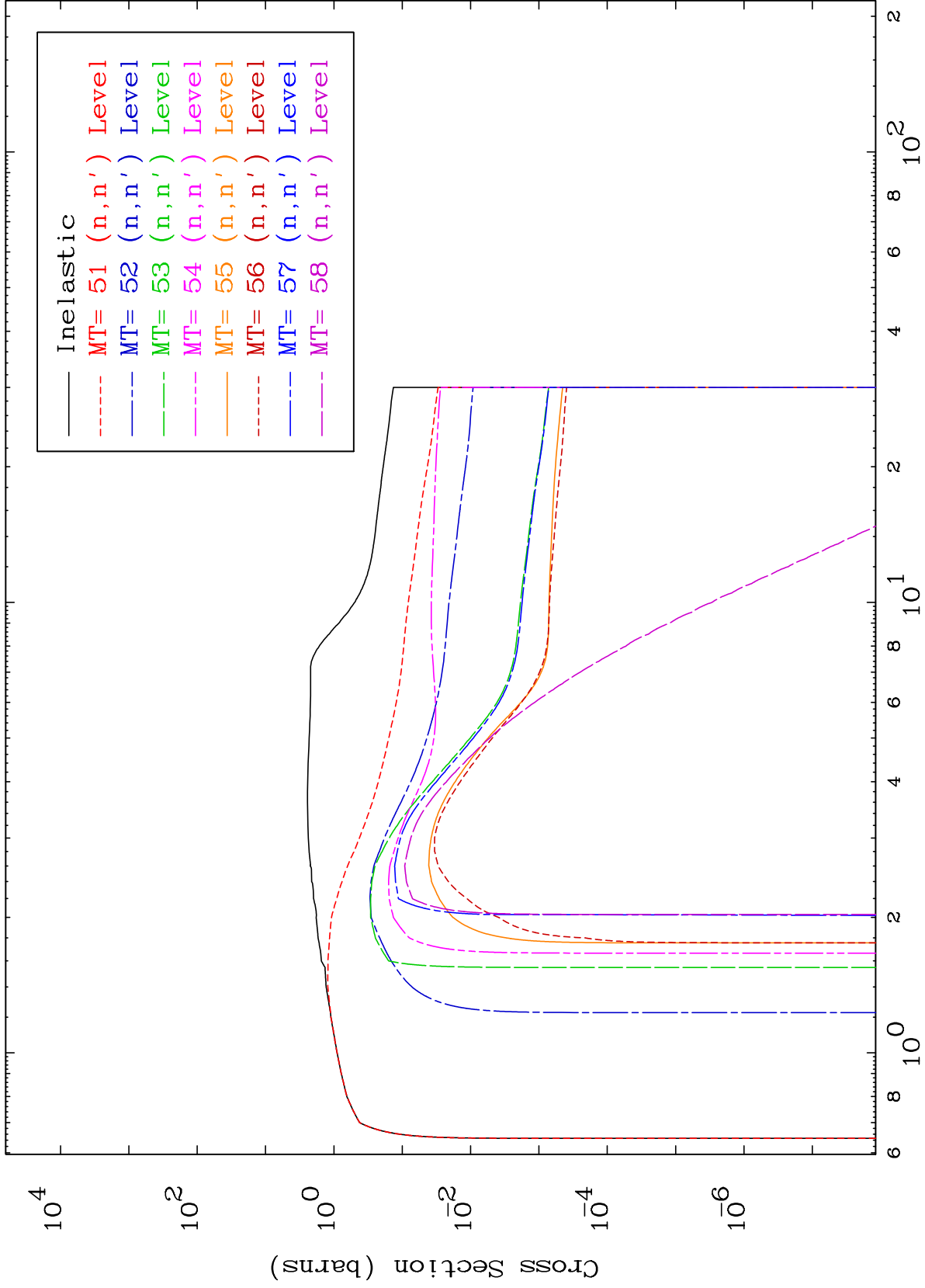


MAT 5843

(n,n') Levels

58-Ce-142

293 Kelvin Cross Sections



8

Incident Energy (MeV)

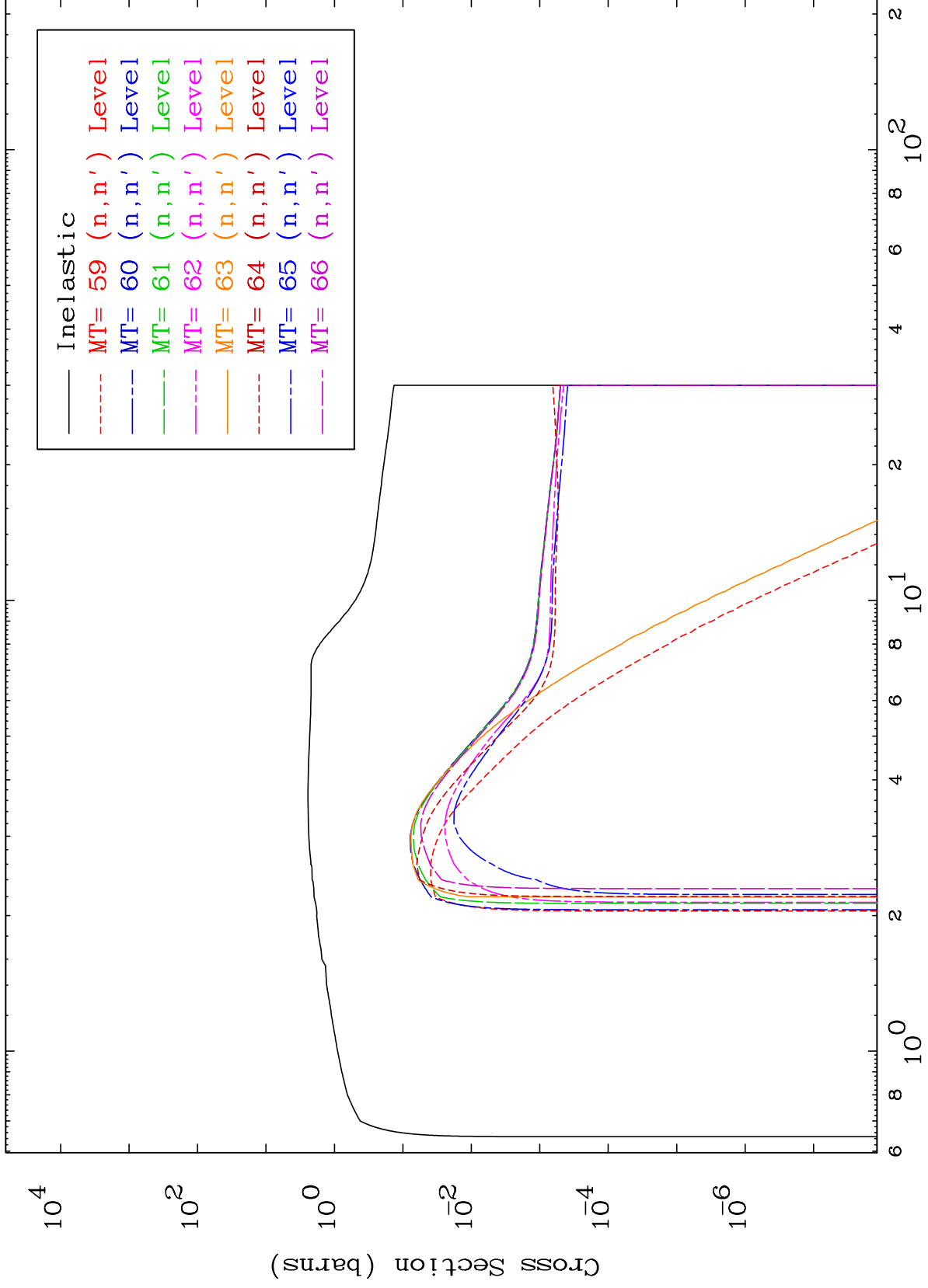
58-Ce-142

MAT 5843

(n,n') Levels

58-Ce-142

293 Kelvin Cross Sections



9

Incident Energy (MeV)

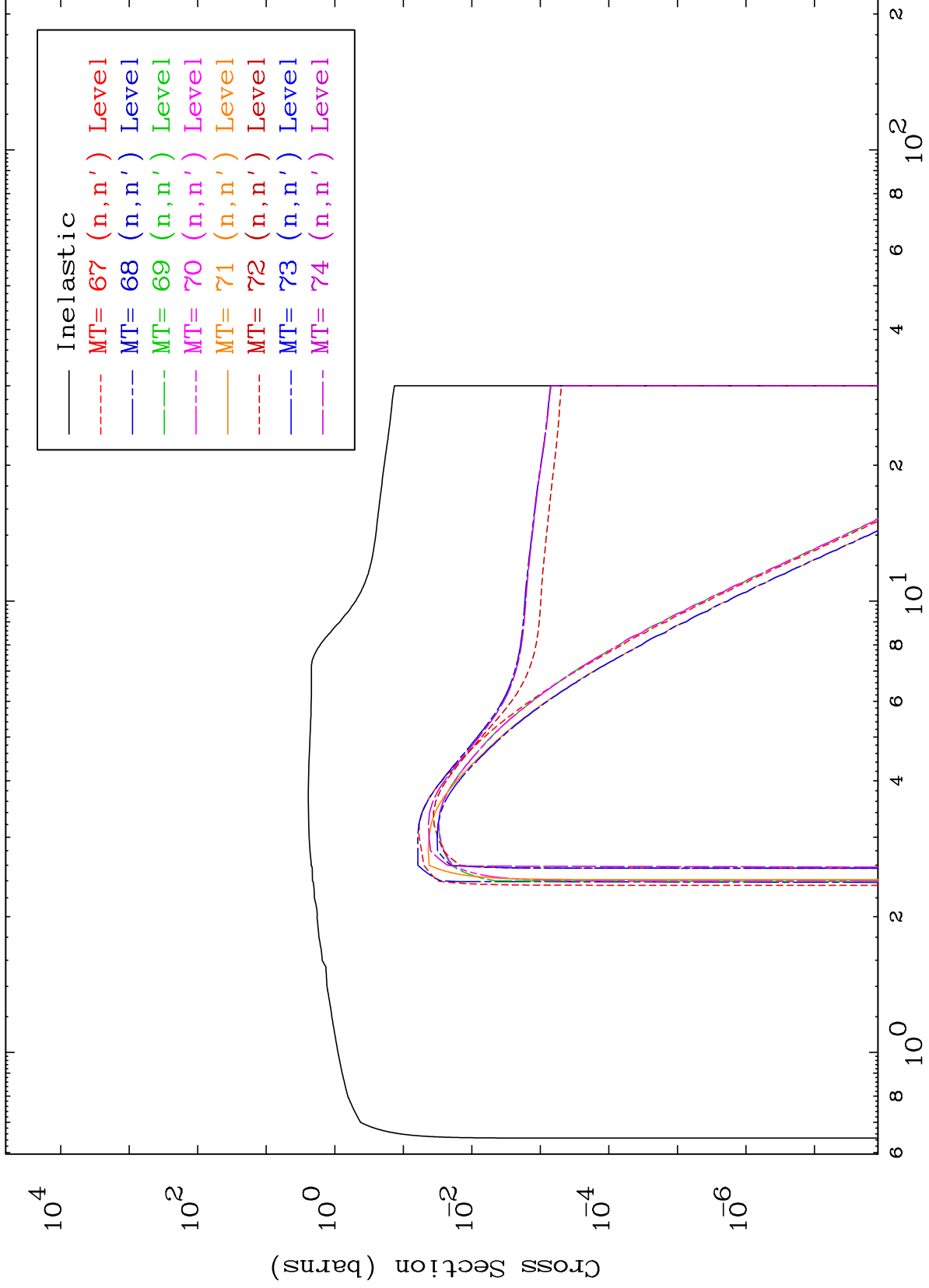
58-Ce-142

MAT 5843

(n,n') Levels

58-Ce-142

293 Kelvin Cross Sections



10

Incident Energy (MeV)

58-Ce-142

MAT 5843

(n,n') Levels

58-Ce-142

293 Kelvin Cross Sections

10^4

10^2

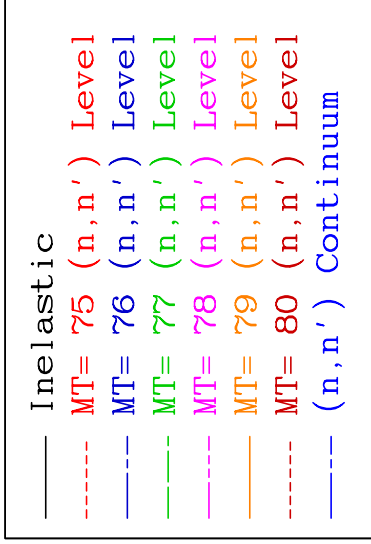
10^0

10^{-2}

10^{-4}

10^{-6}

Cross Section (barns)



6 8 10⁰ 2 4 6 8 10¹ 2 4 6 8 10² 2

Incident Energy (MeV)

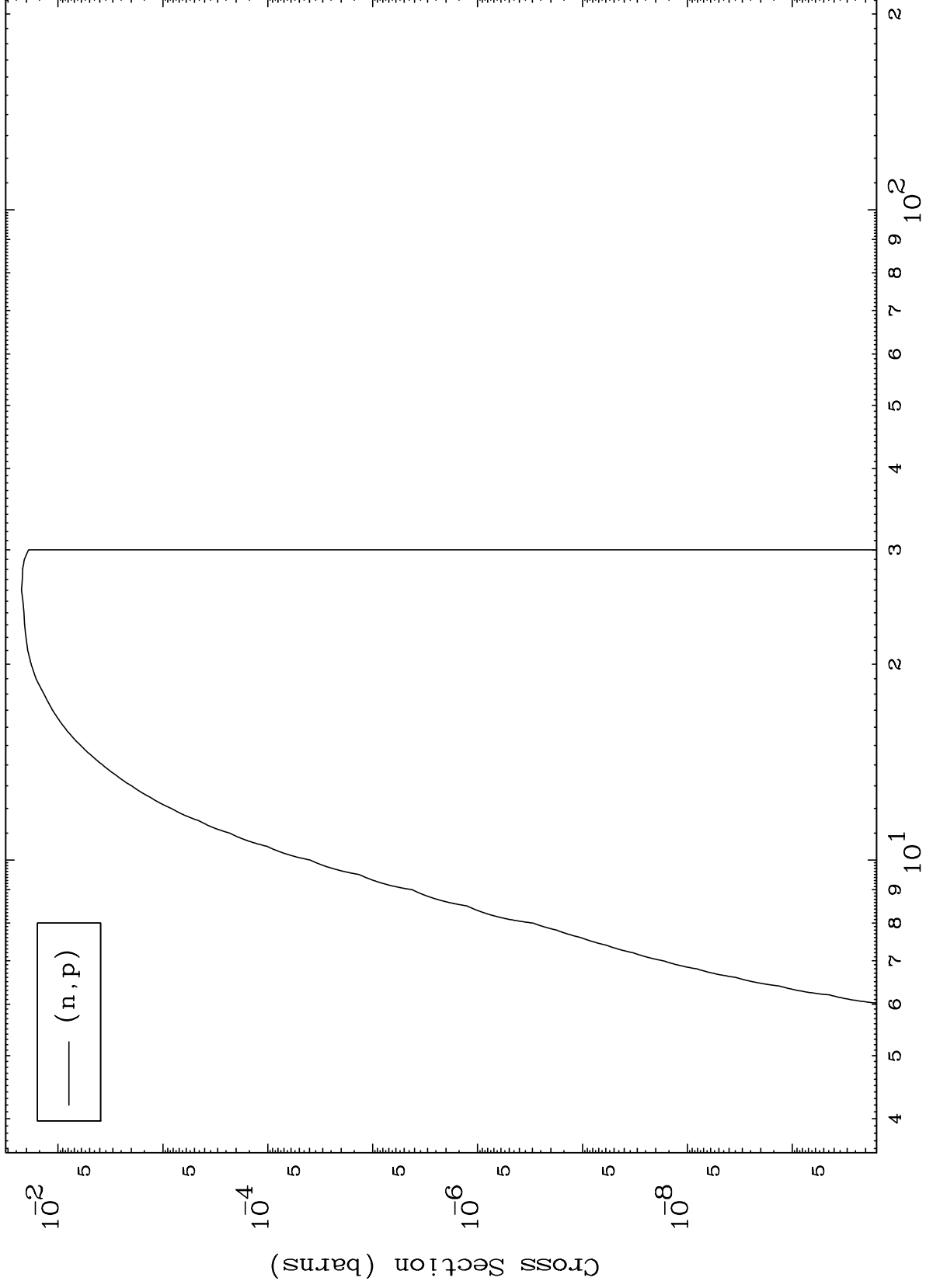
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58-Ce-142

MAT 5843

(n,p) Levels
293 Kelvin Cross Sections

58-Ce-142



12

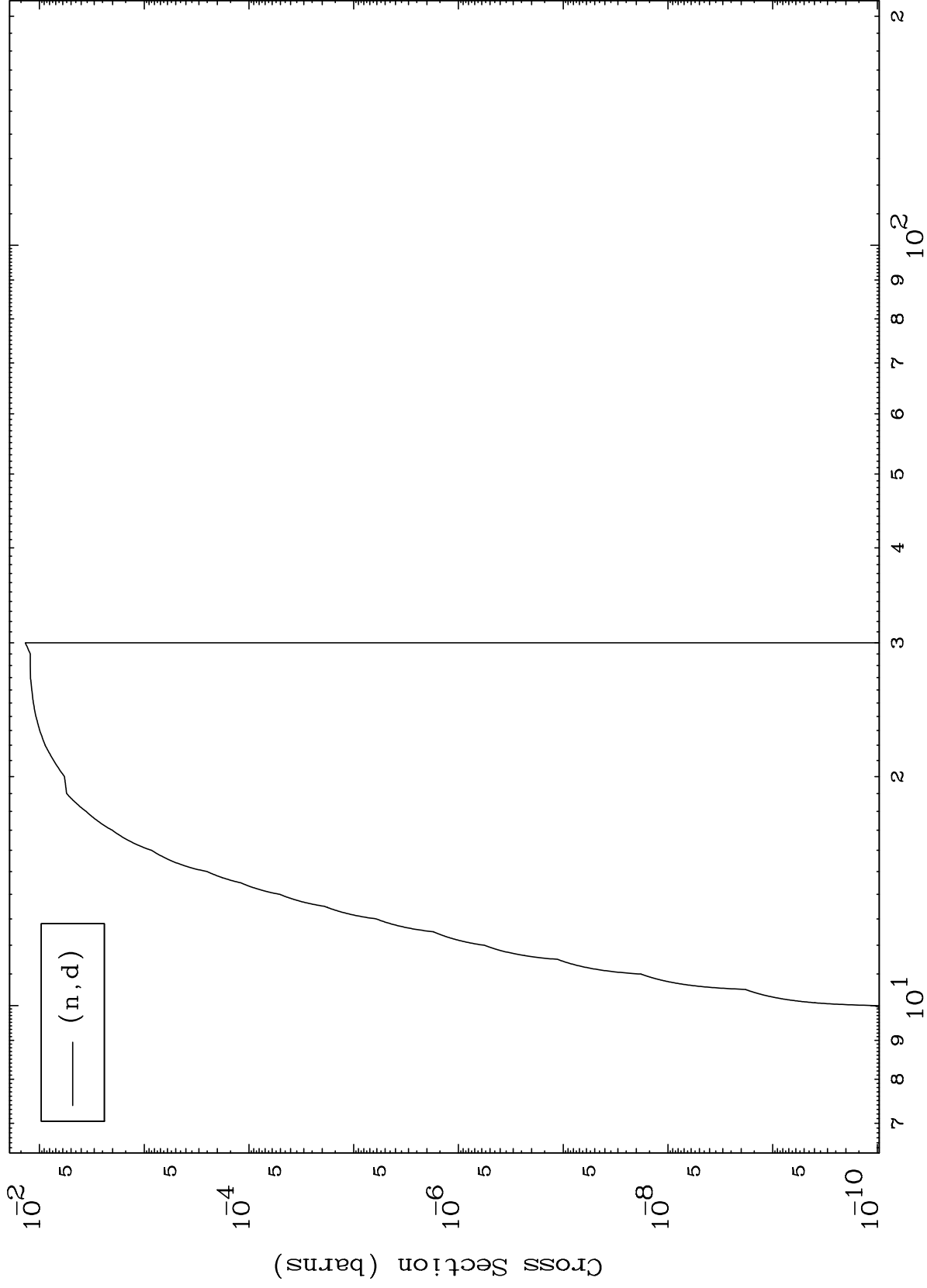
Incident Energy (MeV)

58-Ce-142

MAT 5843

(n,d) Levels
293 Kelvin Cross Sections

58-Ce-142



13

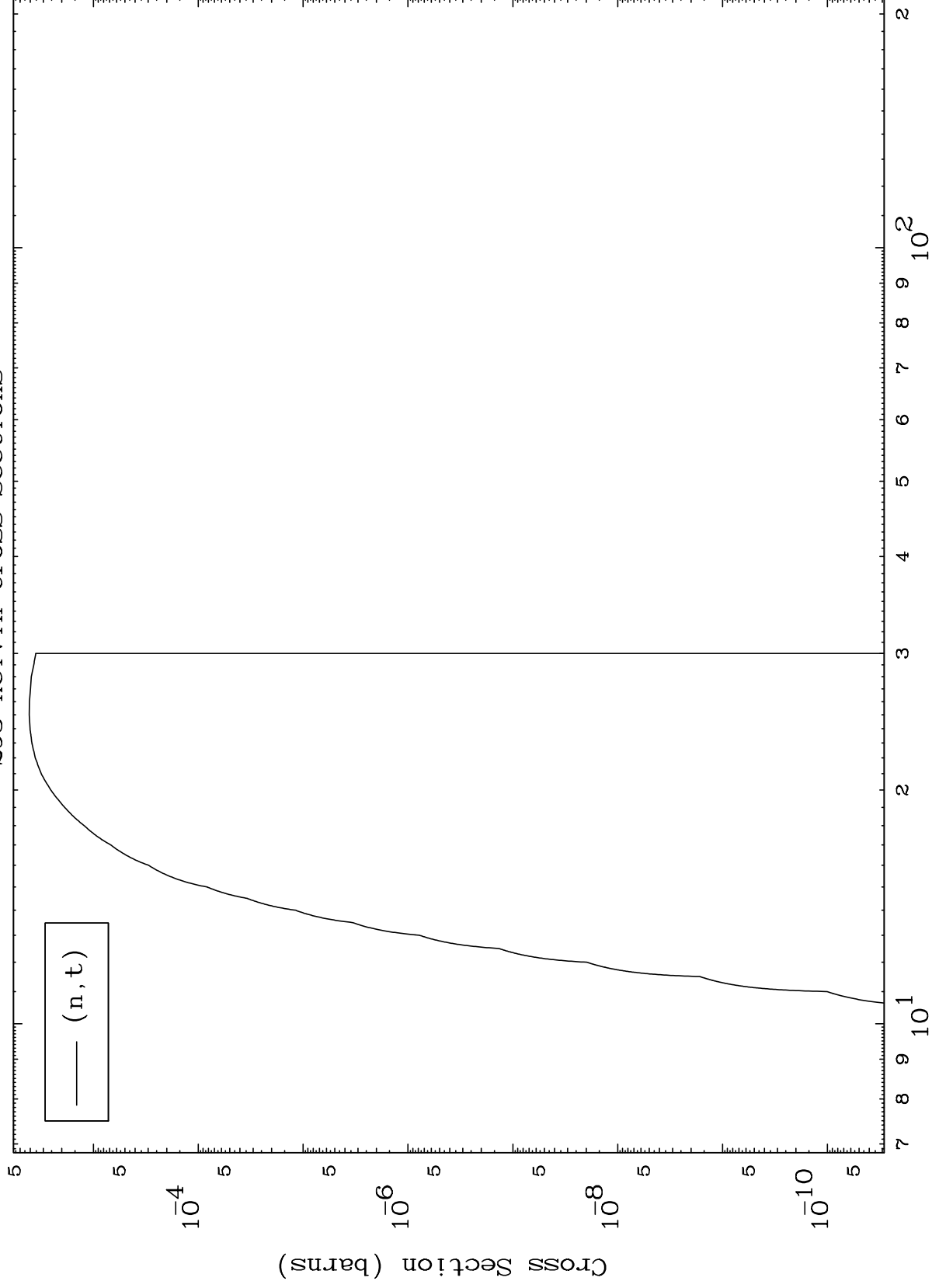
Incident Energy (MeV)

58-Ce-142

MAT 5843

(n,t) Levels
293 Kelvin Cross Sections

58-Ce-142



14

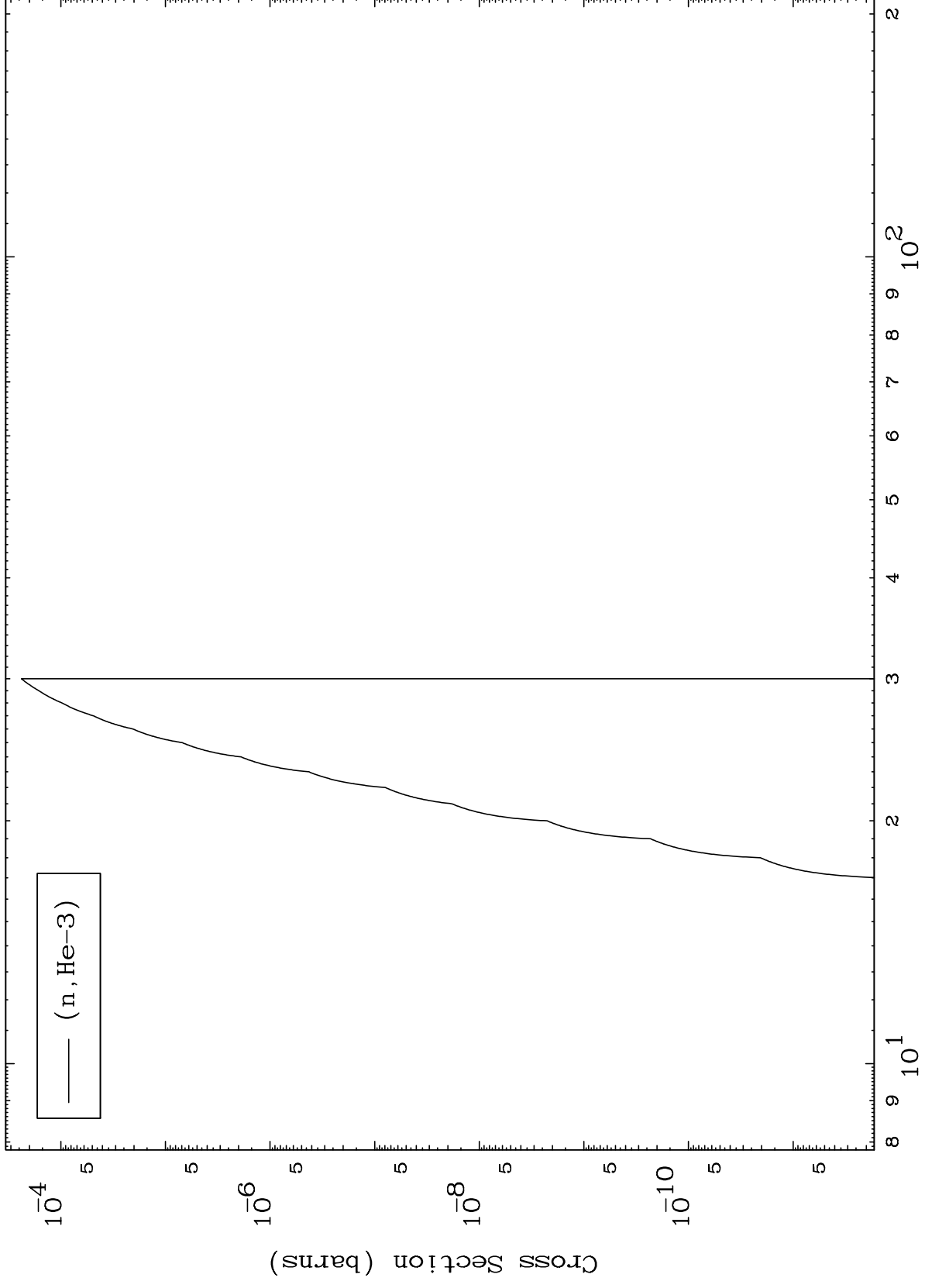
Incident Energy (MeV)

58-Ce-142

MAT 5843

(n,He3) Levels
293 Kelvin Cross Sections

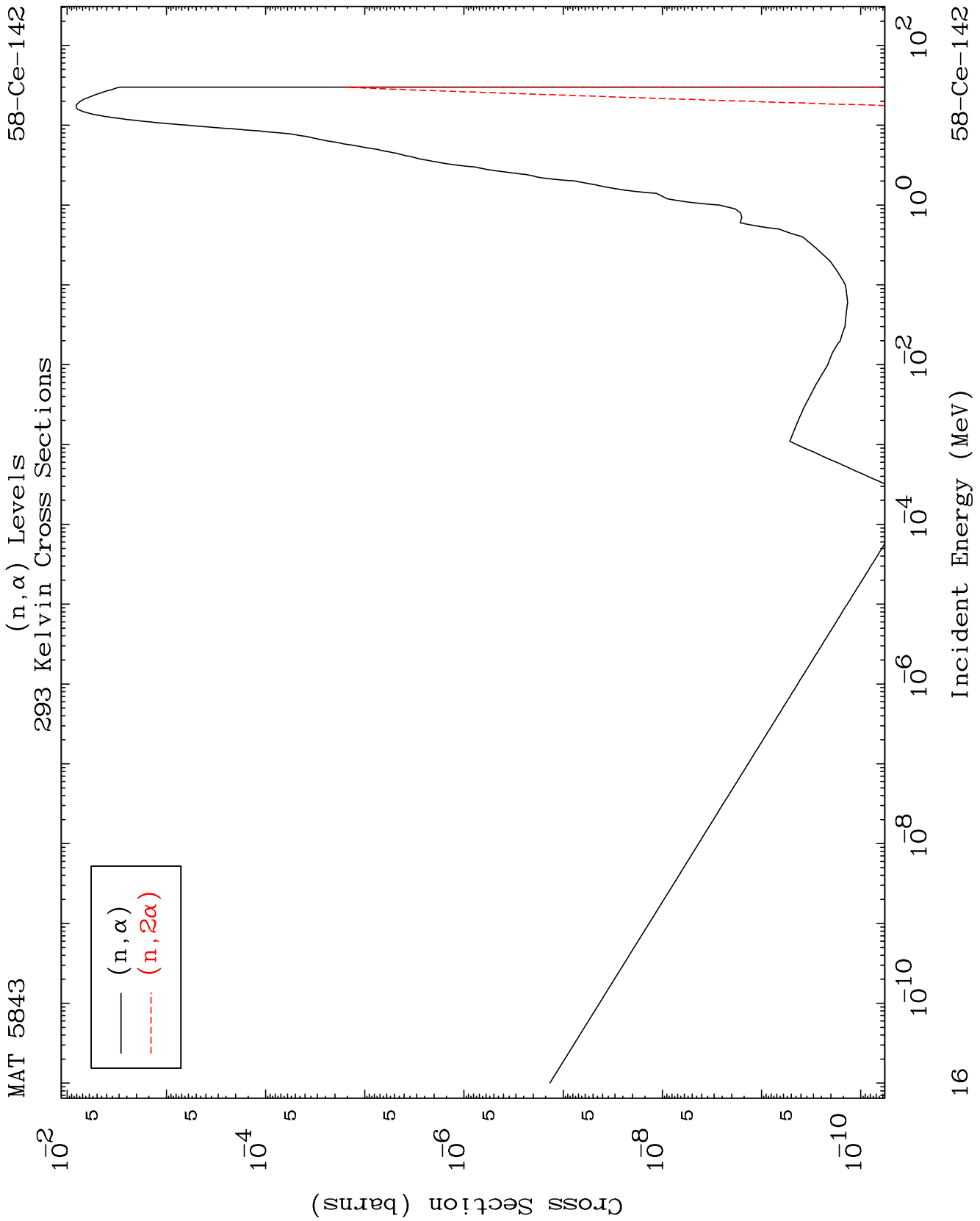
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15

Incident Energy (MeV)

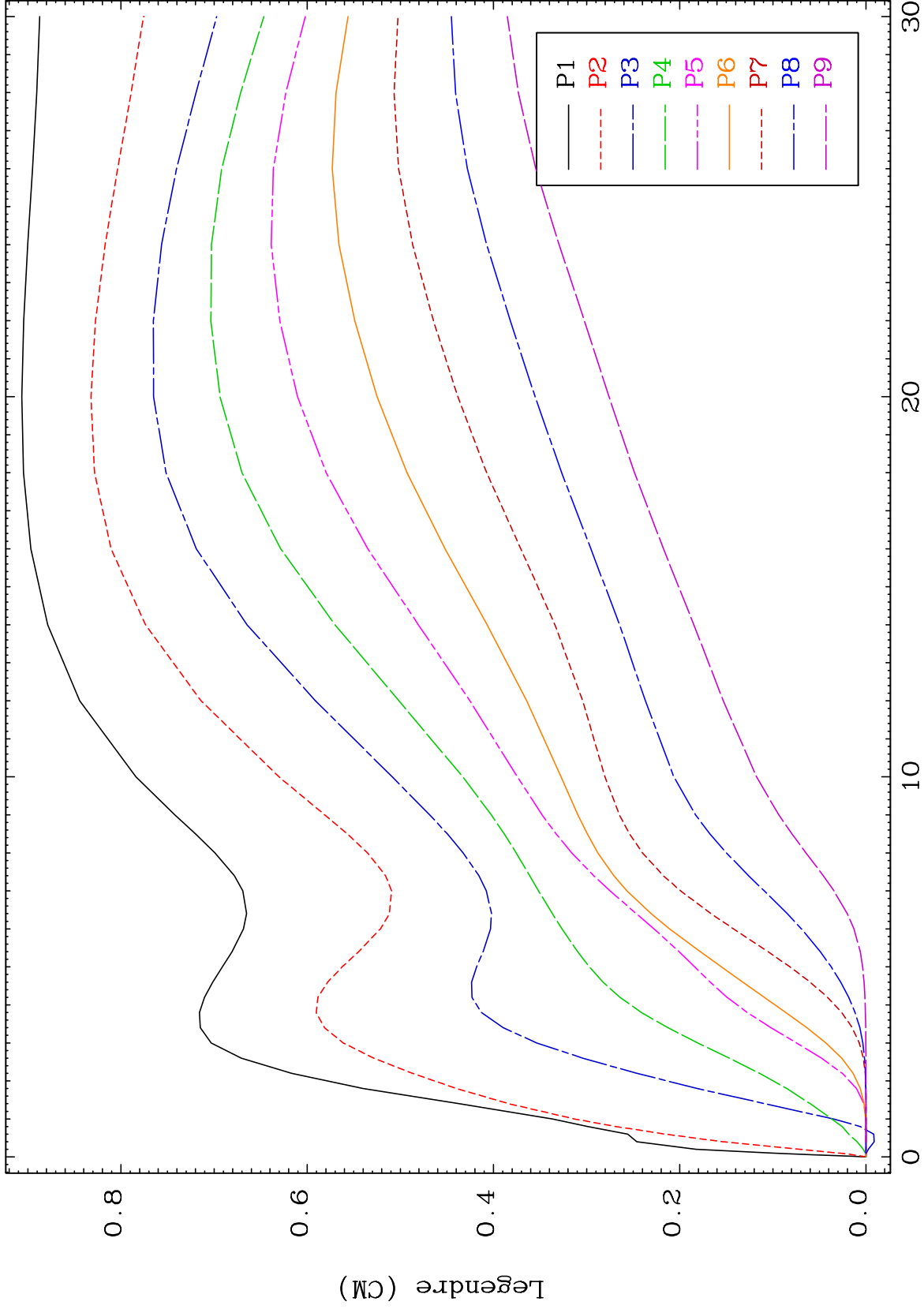
58-Ce-142



MAT 5843

Elastic Legendre Coefficients

58-Ce-142



17

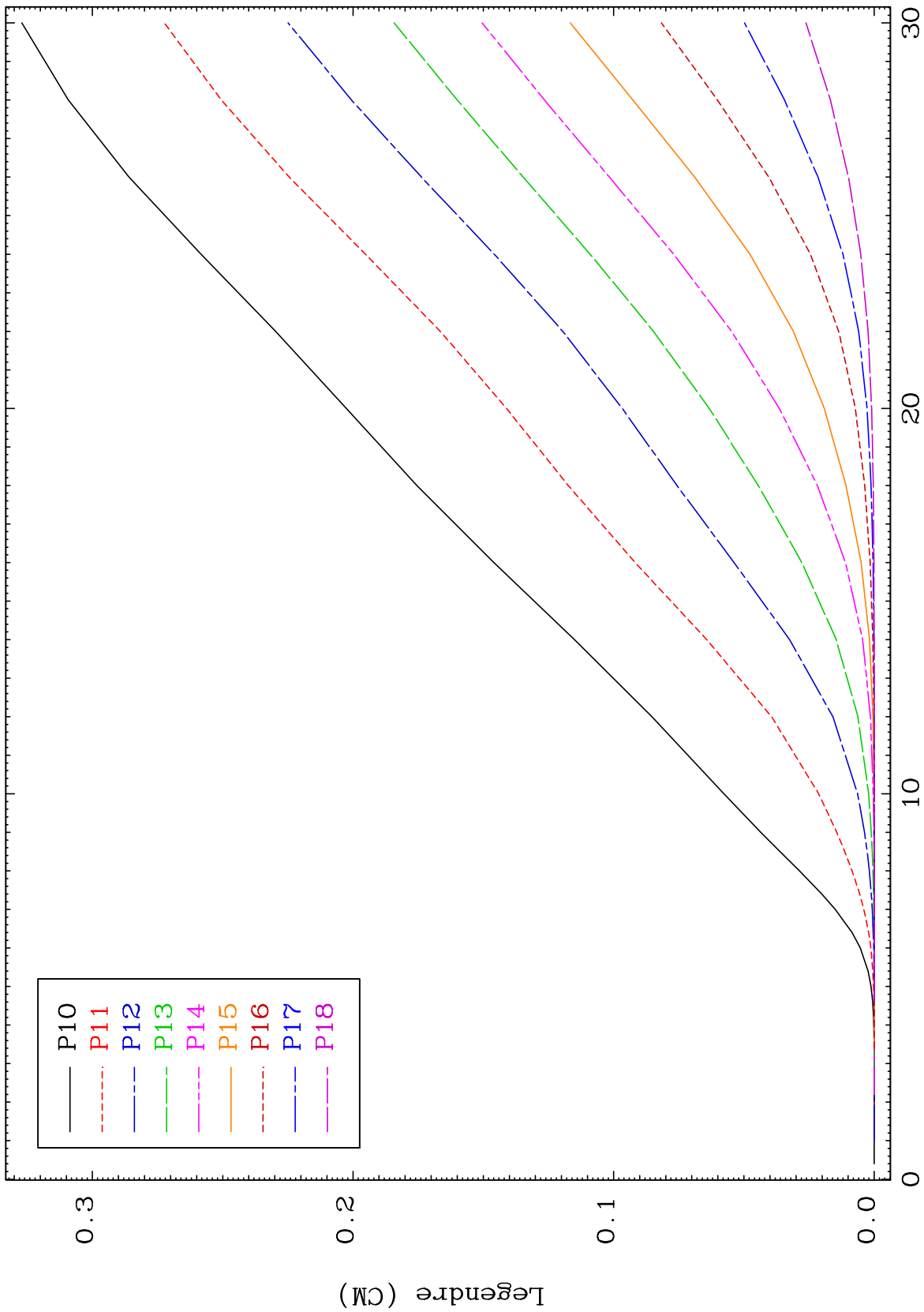
Incident Energy (MeV)

58-Ce-142

MAT 5843

Elastic Legendre Coefficients

58-Ce-142



18

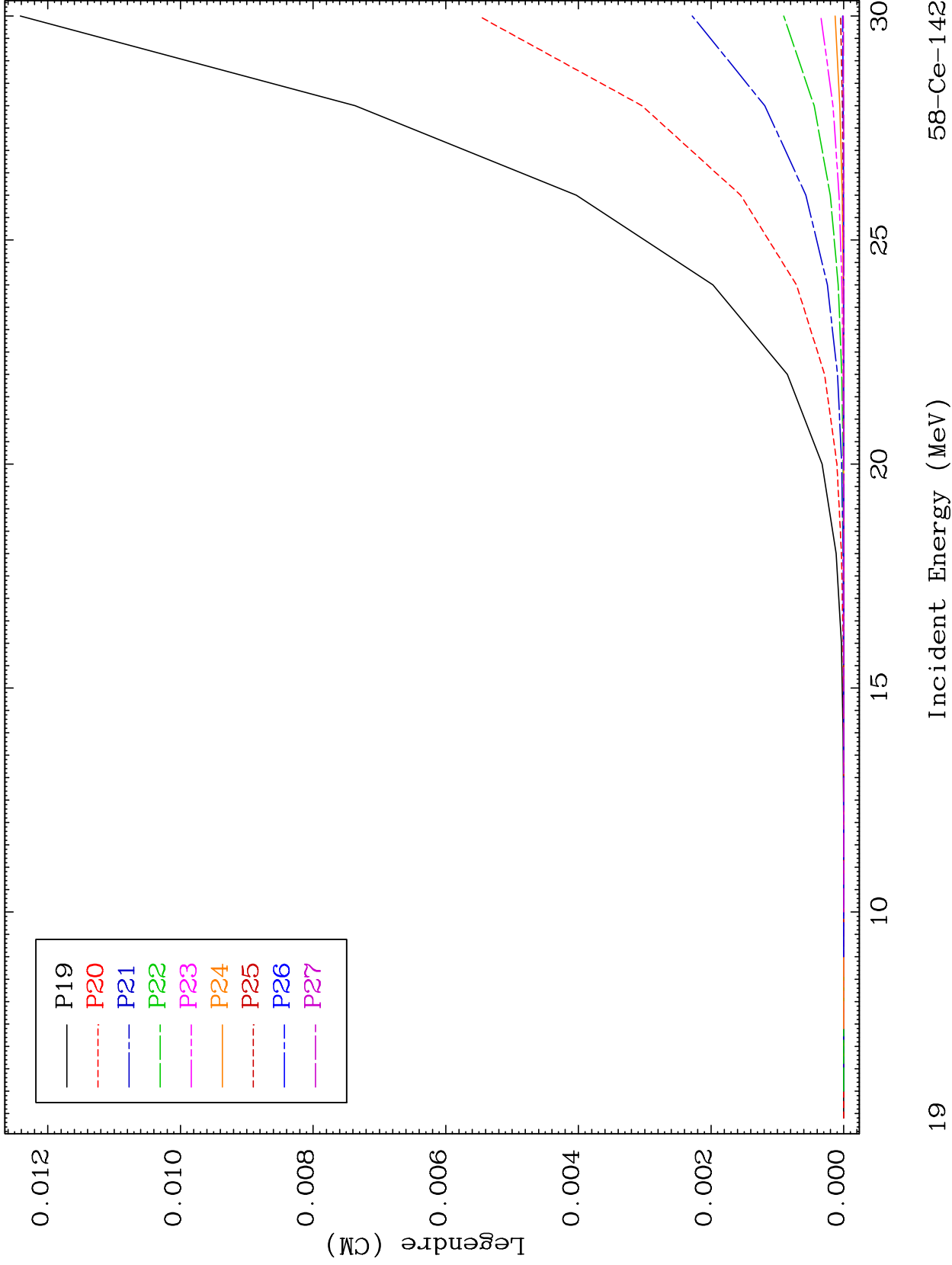
Incident Energy (MeV)

58-Ce-142

MAT 5843

Elastic Legendre Coefficients

58-Ce-142



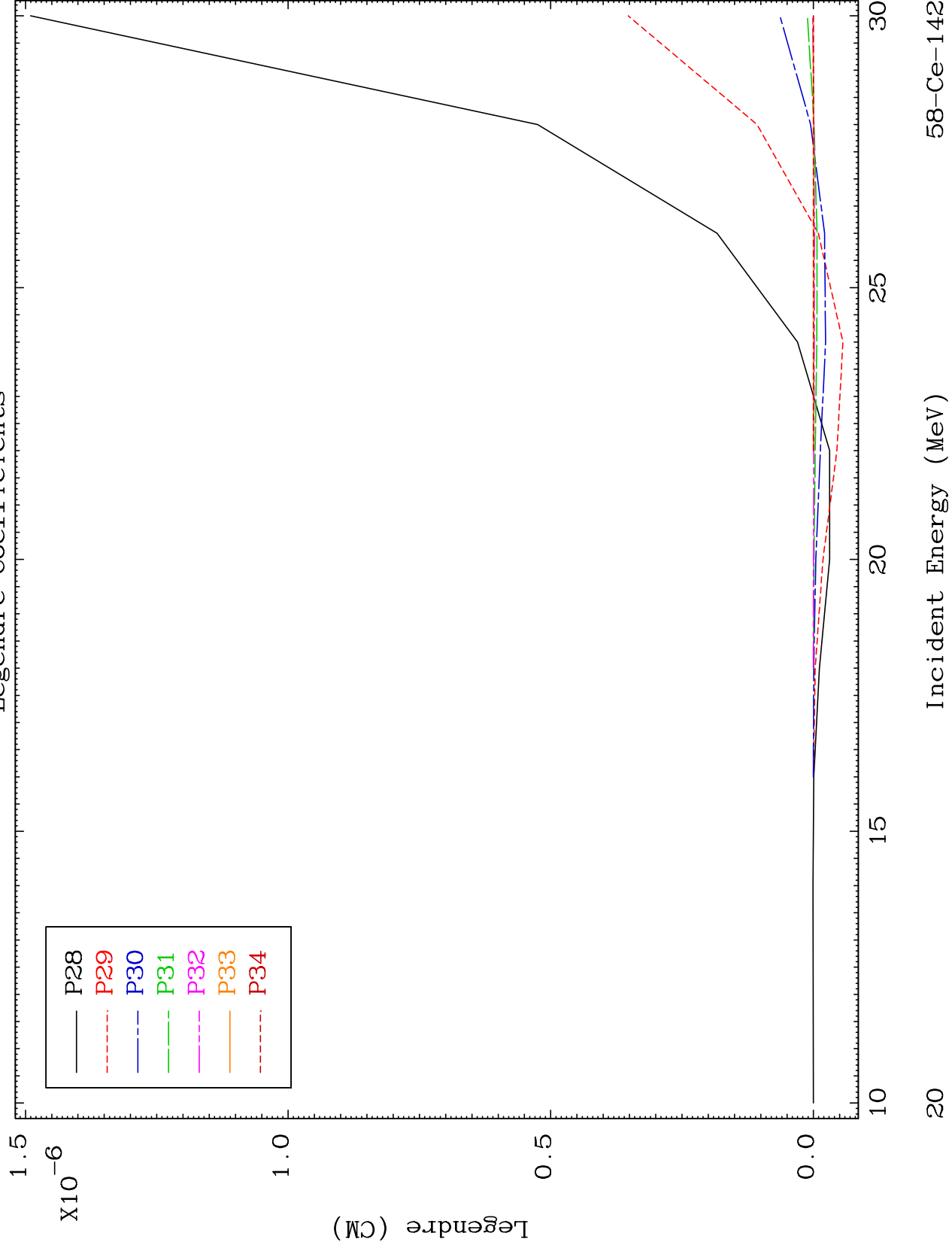
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58-Ce-142

MAT 5843

Elastic
Legendre Coefficients

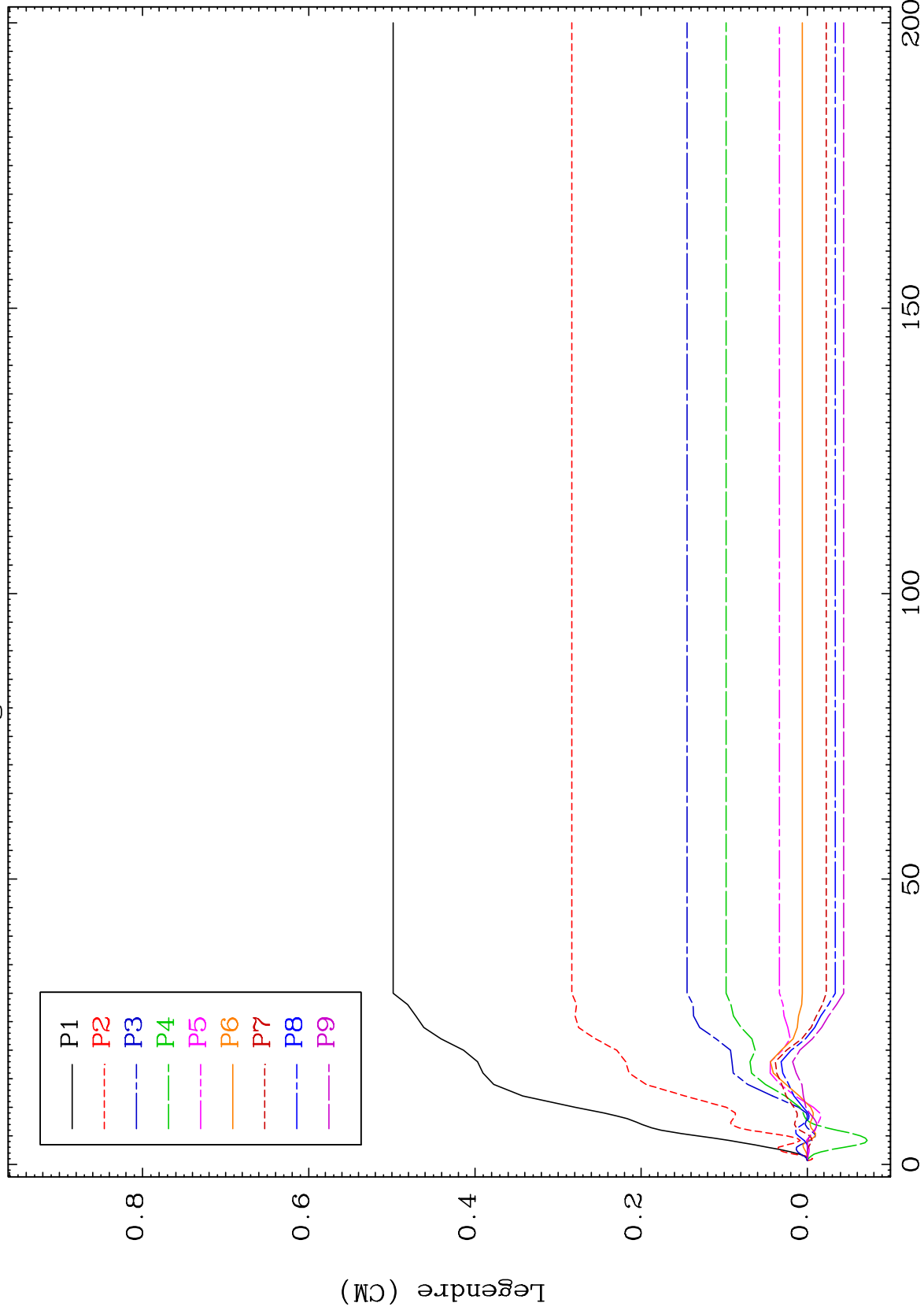
58-Ce-142



MAT 5843

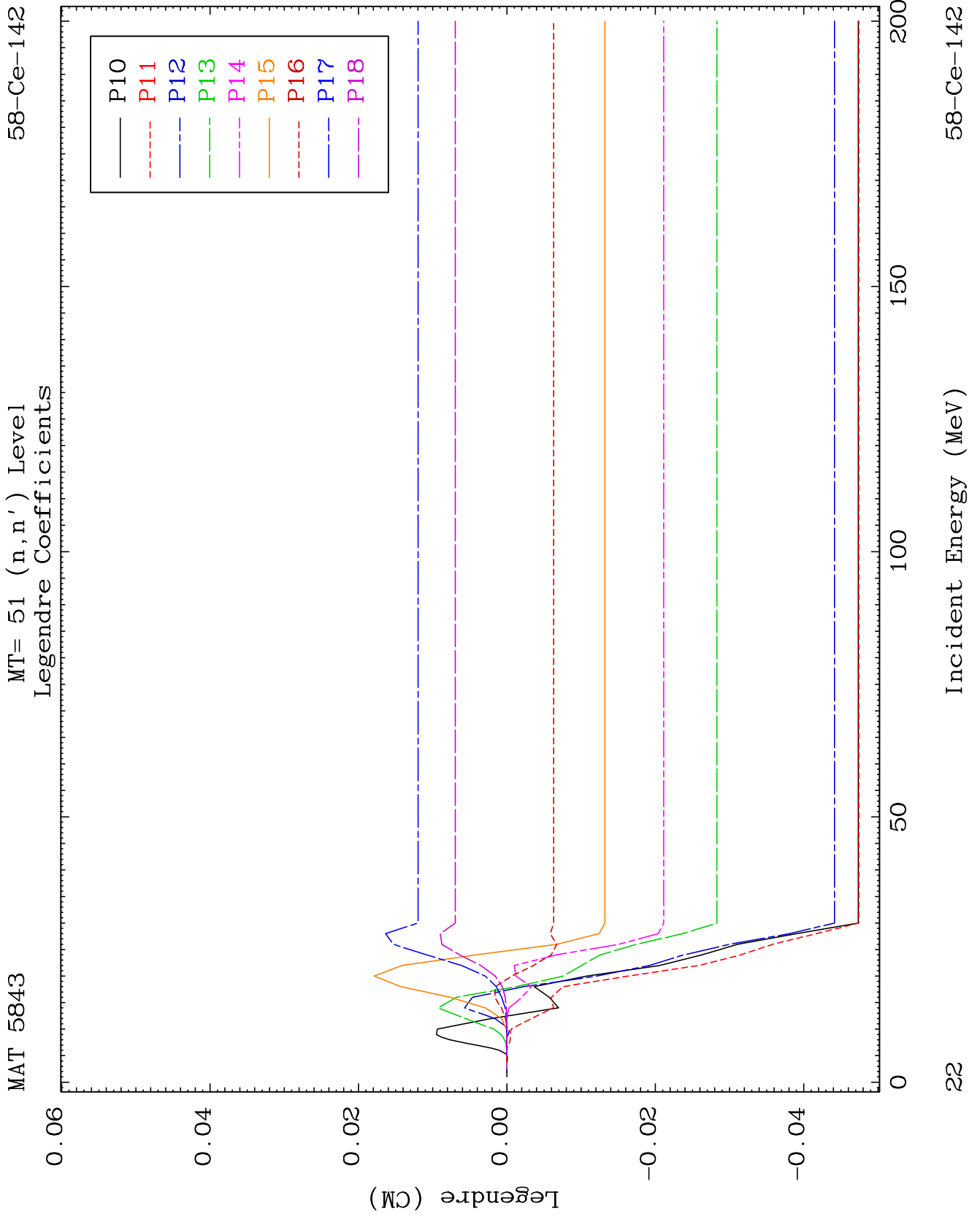
MT= 51 (n,n') Level
Legendre Coefficients

58-Ce-142



21

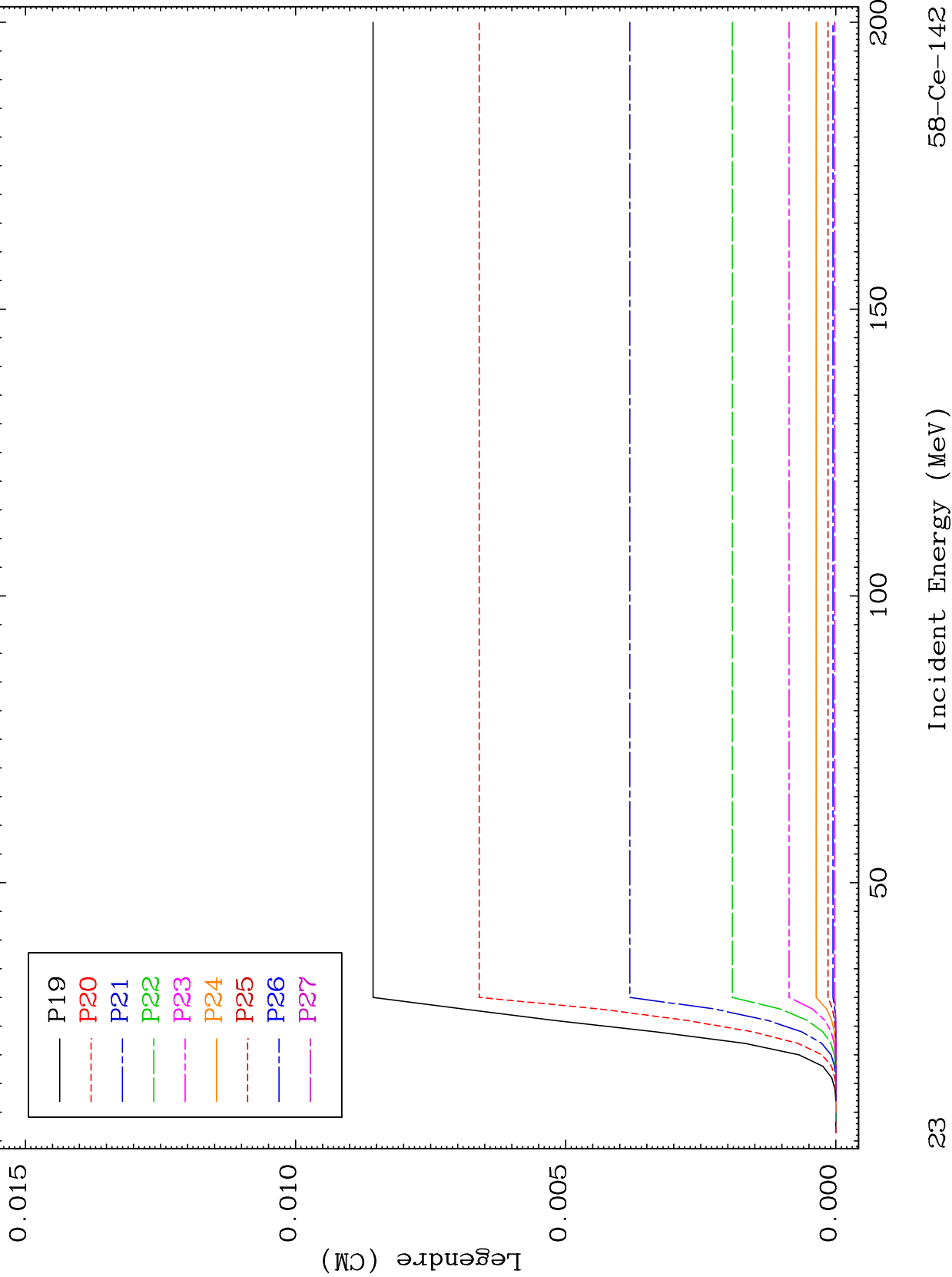
58-Ce-142



MAT 5843

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

58-Ce-142



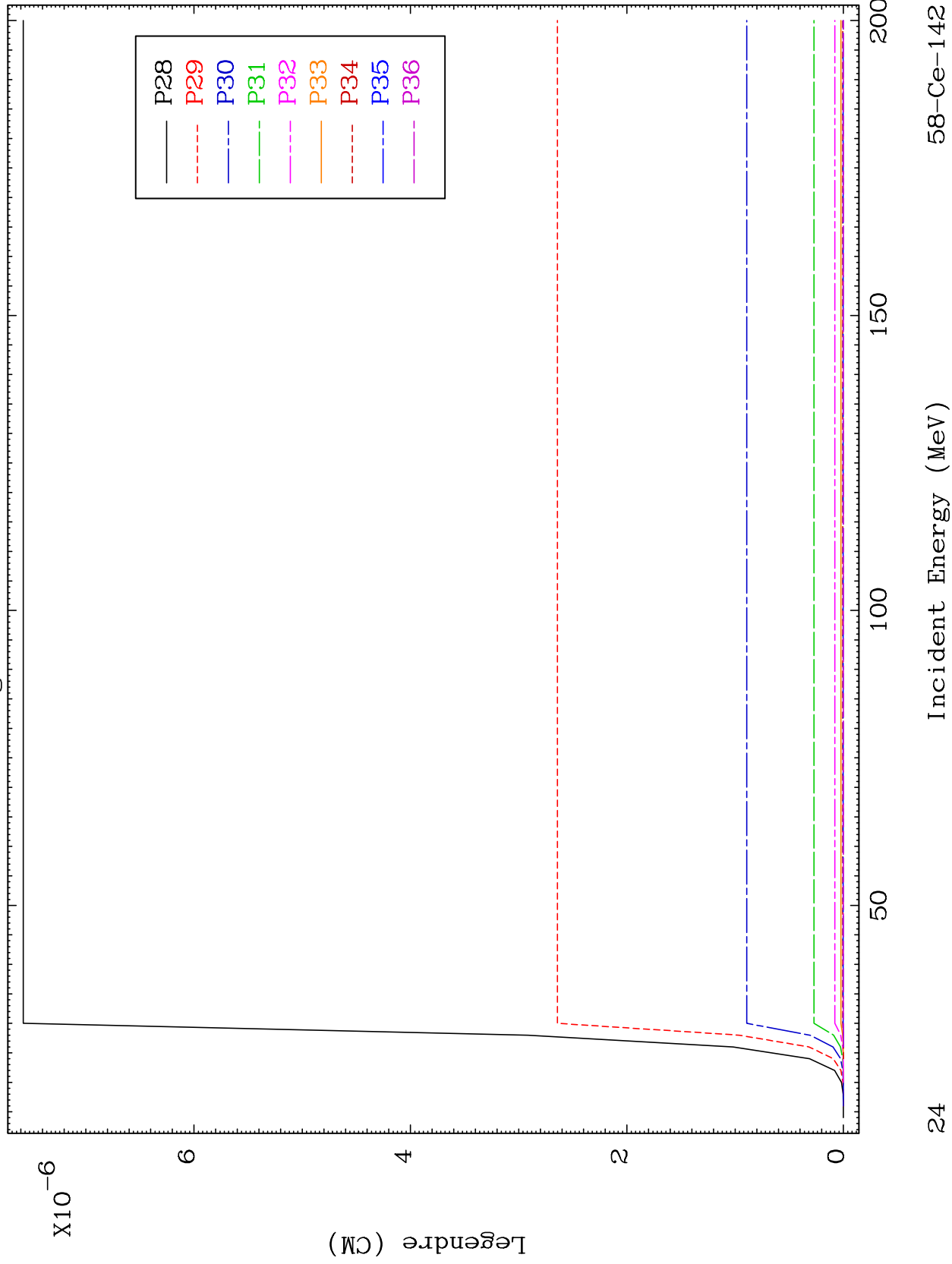
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58-Ce-142

MAT 5843

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

58-Ce-142

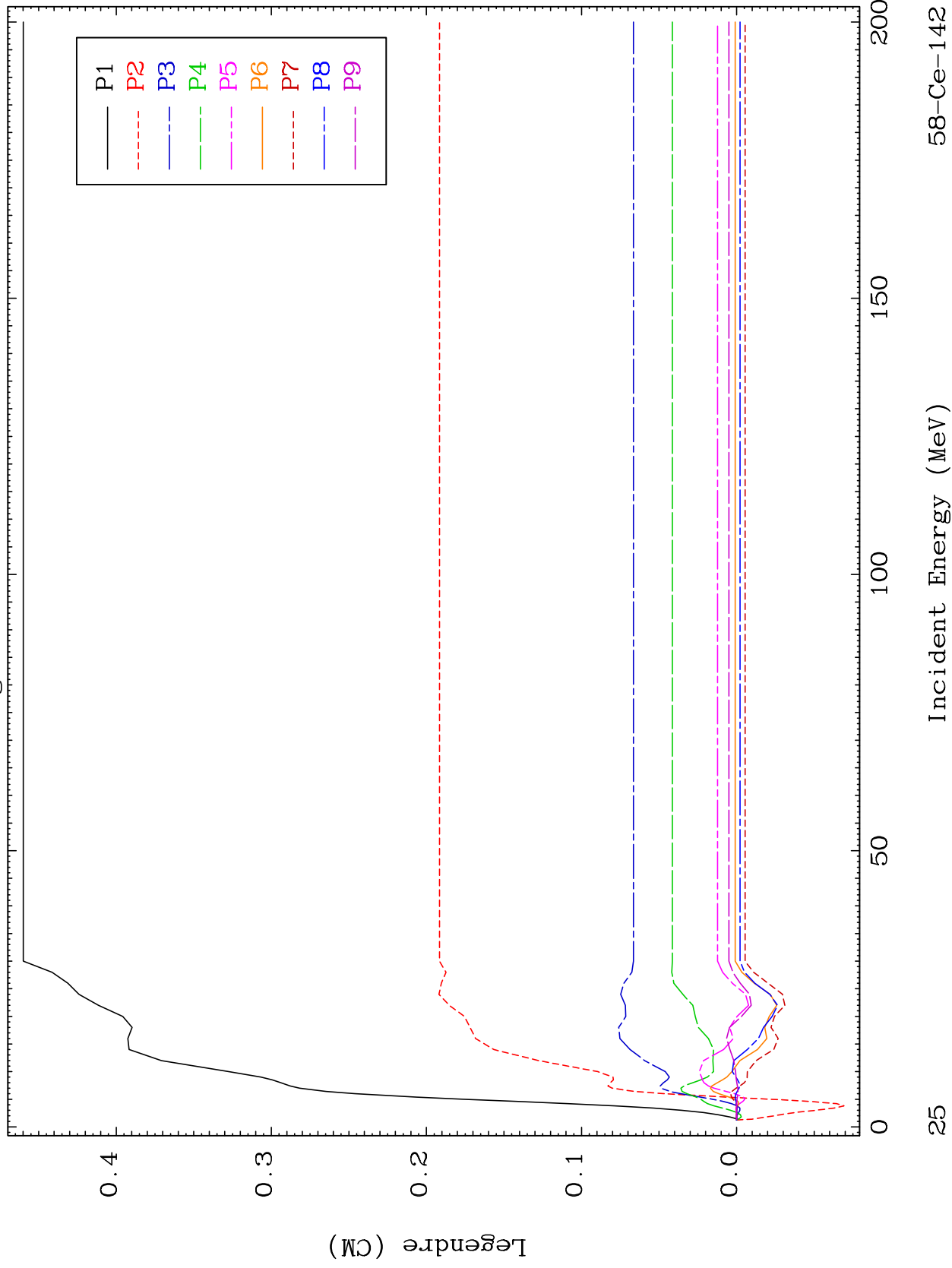


24

MAT 5843

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

58-Ce-142



58-Ce-142

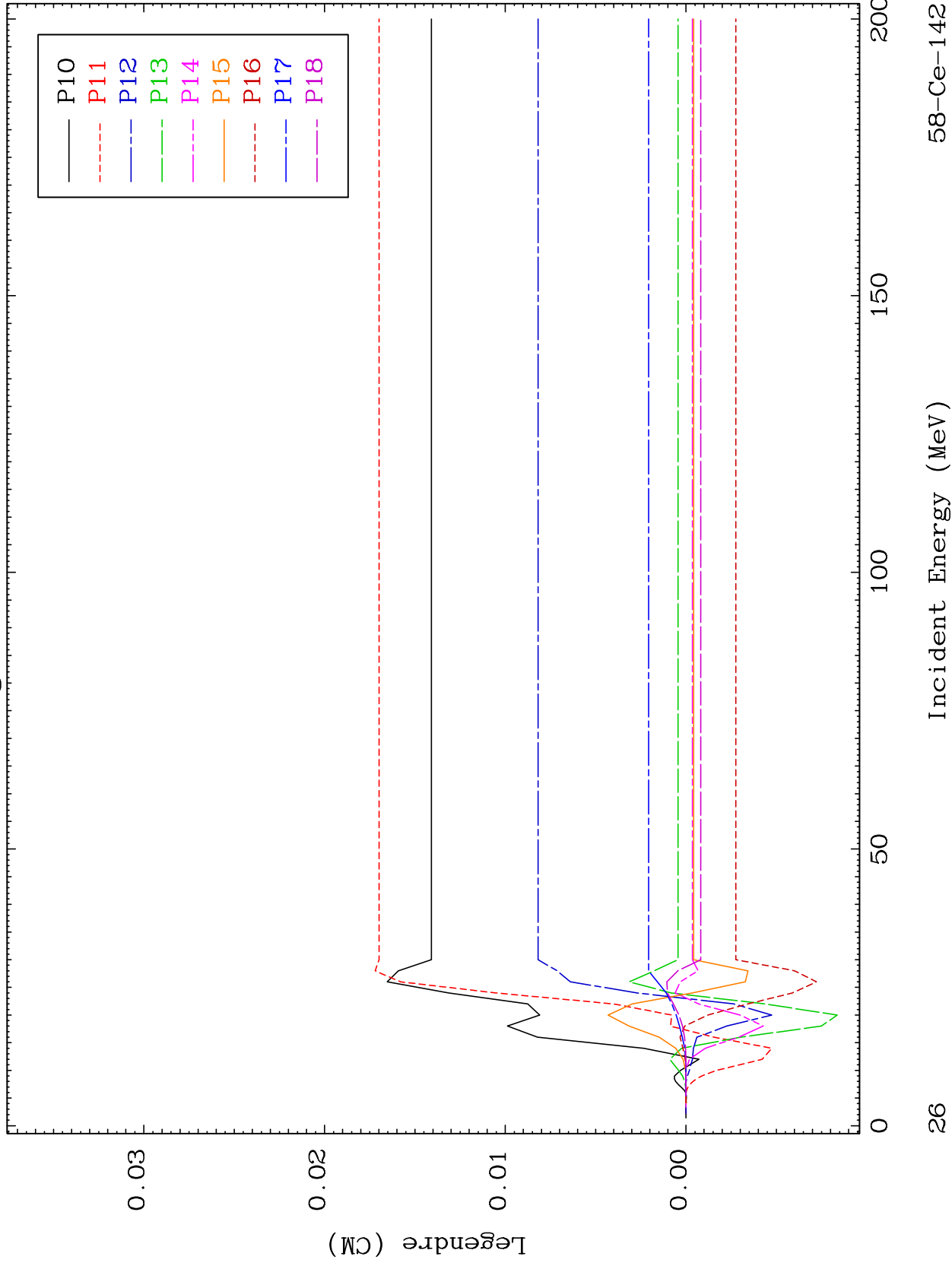
Incident Energy (MeV)

25

MAT 5843

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

58-Ce-142



58-Ce-142

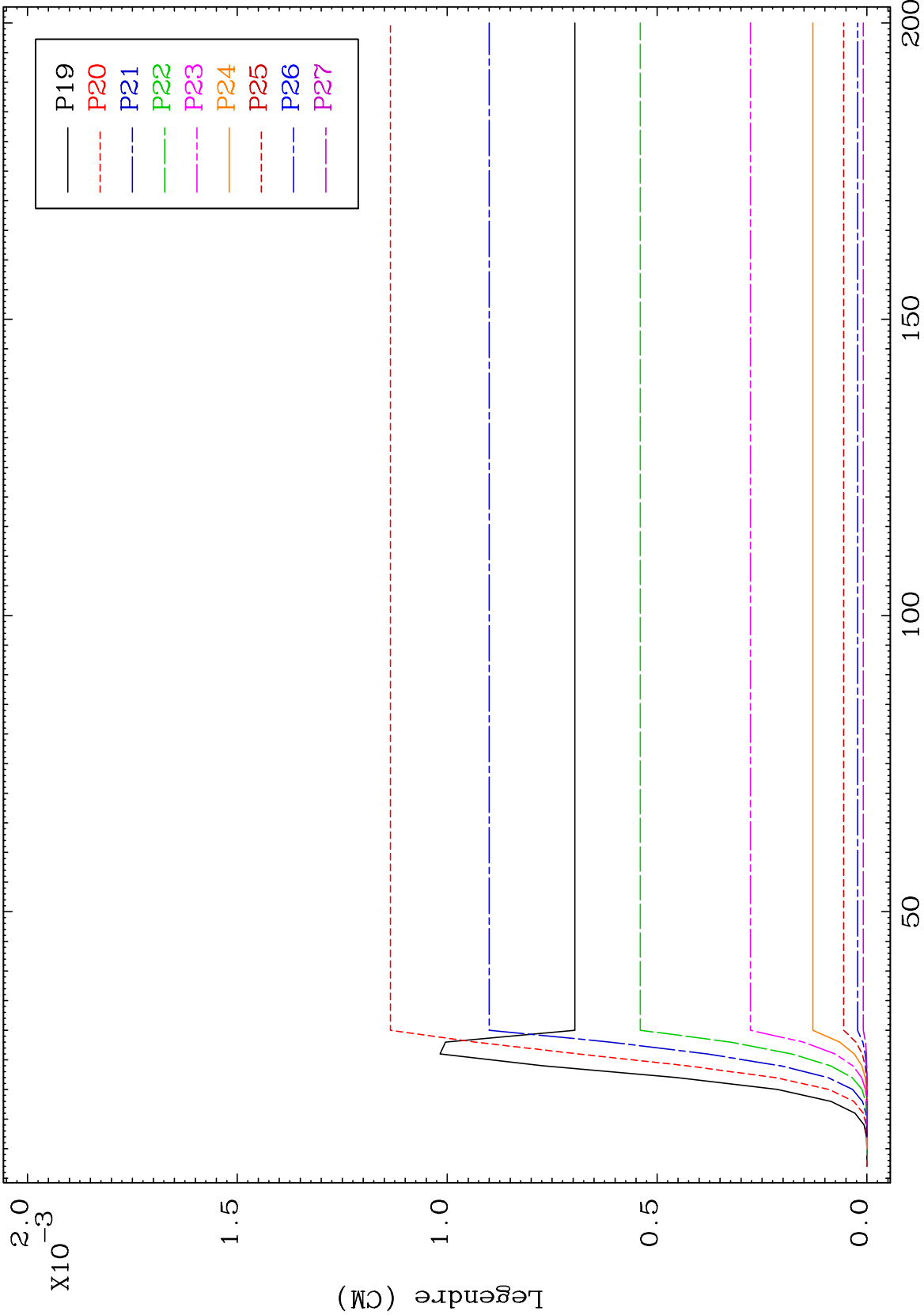
Incident Energy (MeV)

26

MAT 5843

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

58-Ce-142



27

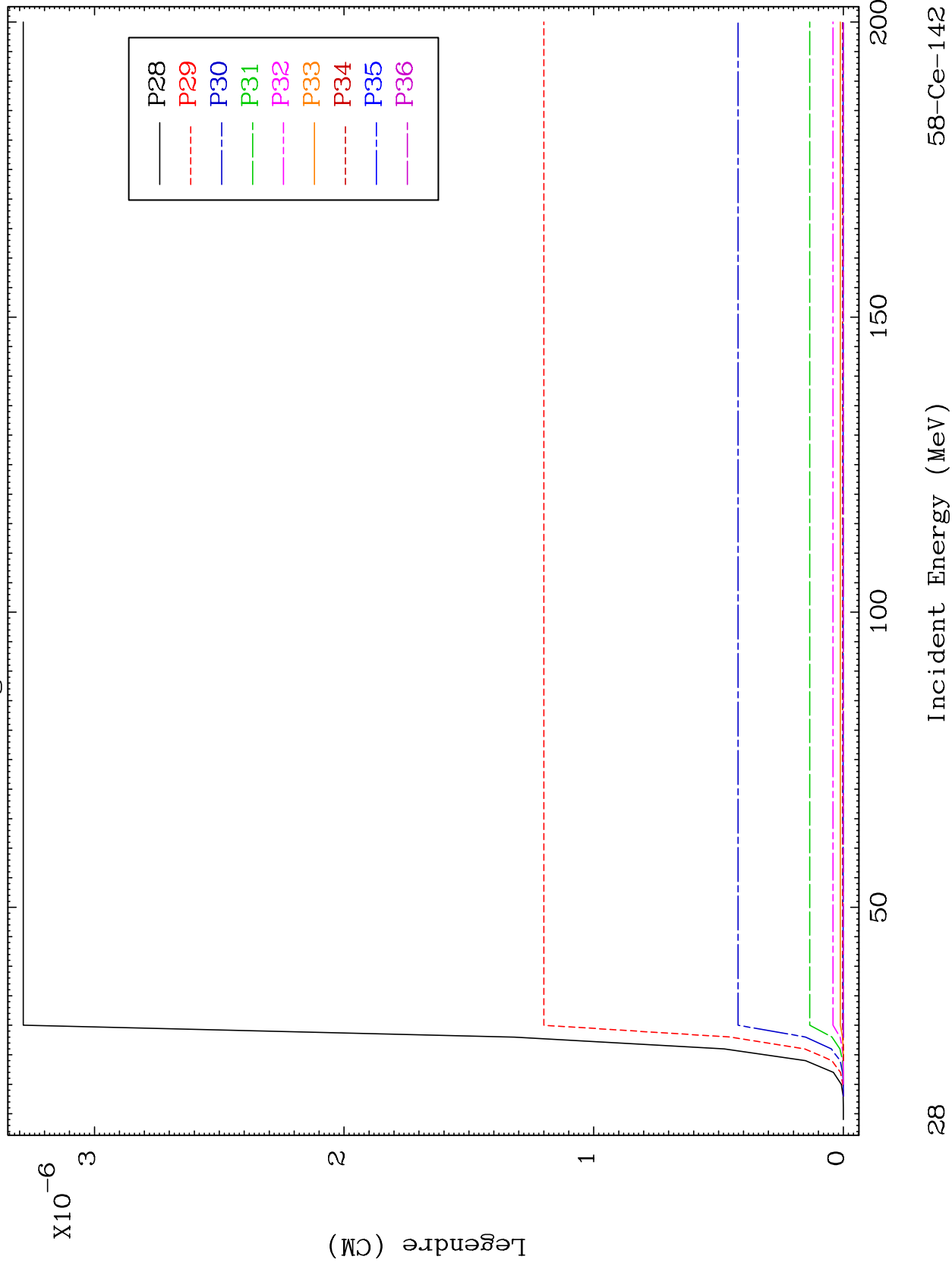
Incident Energy (MeV)

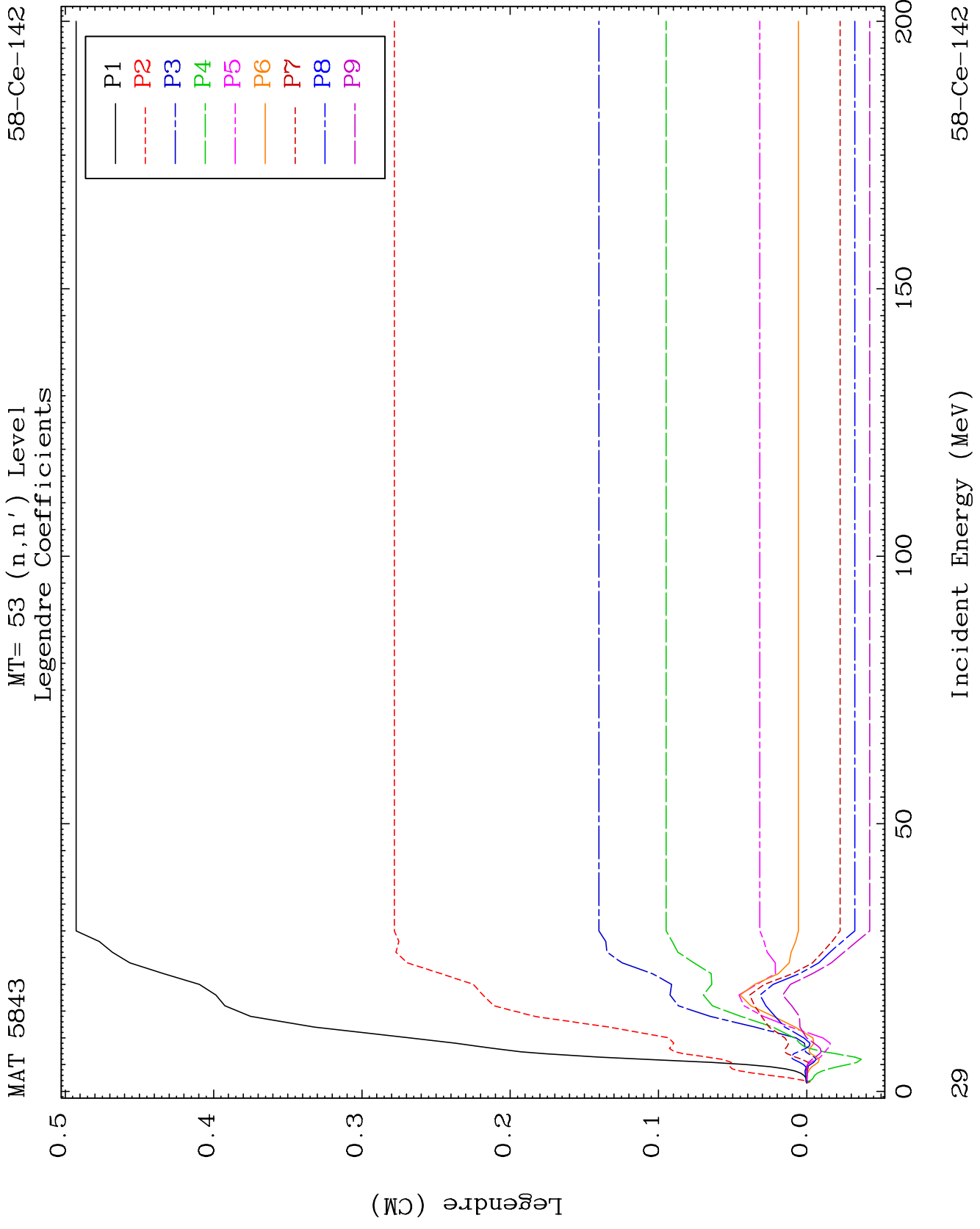
58-Ce-142

MAT 5843

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

58-Ce-142

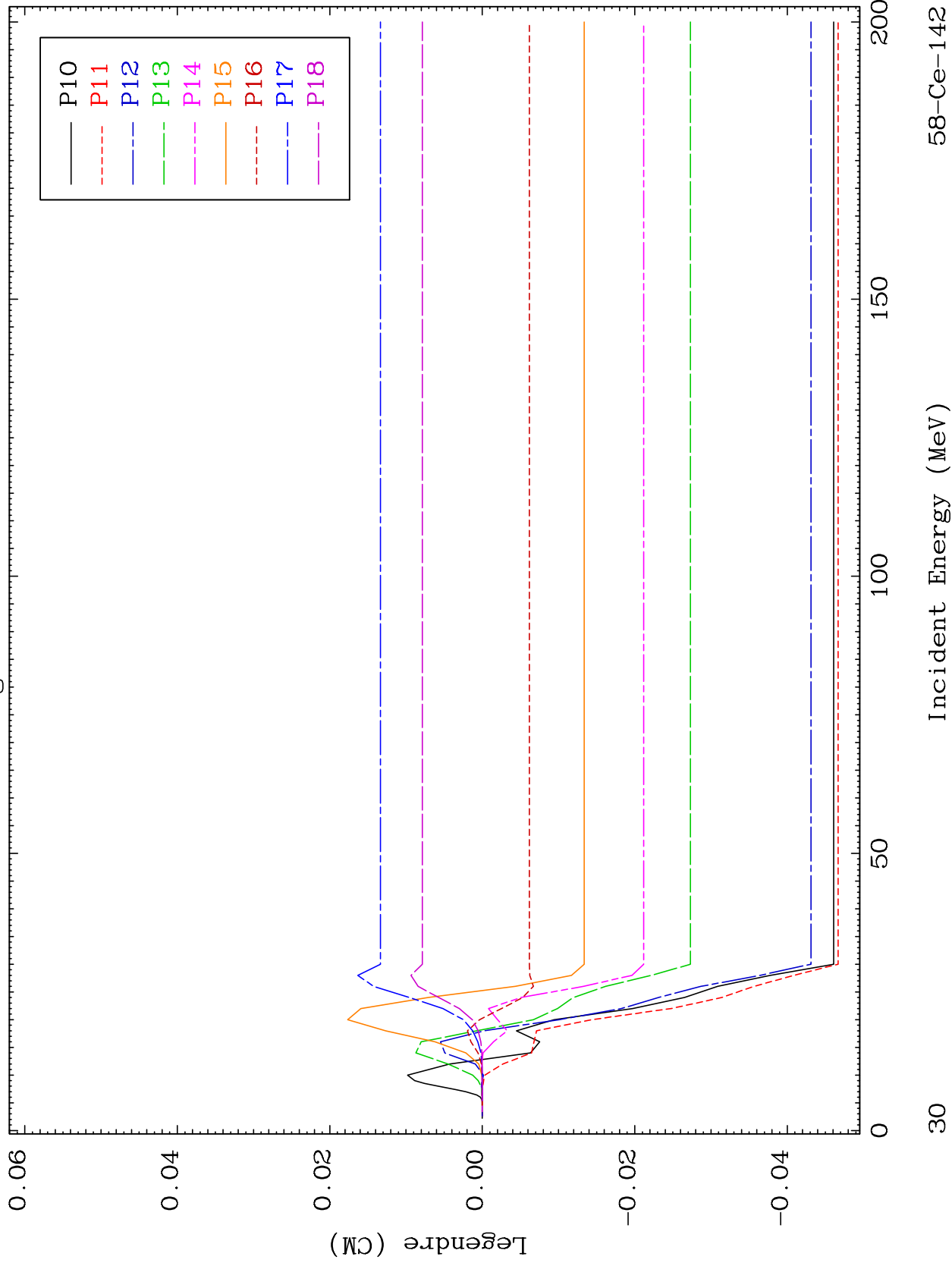




MAT 5843

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

58-Ce-142



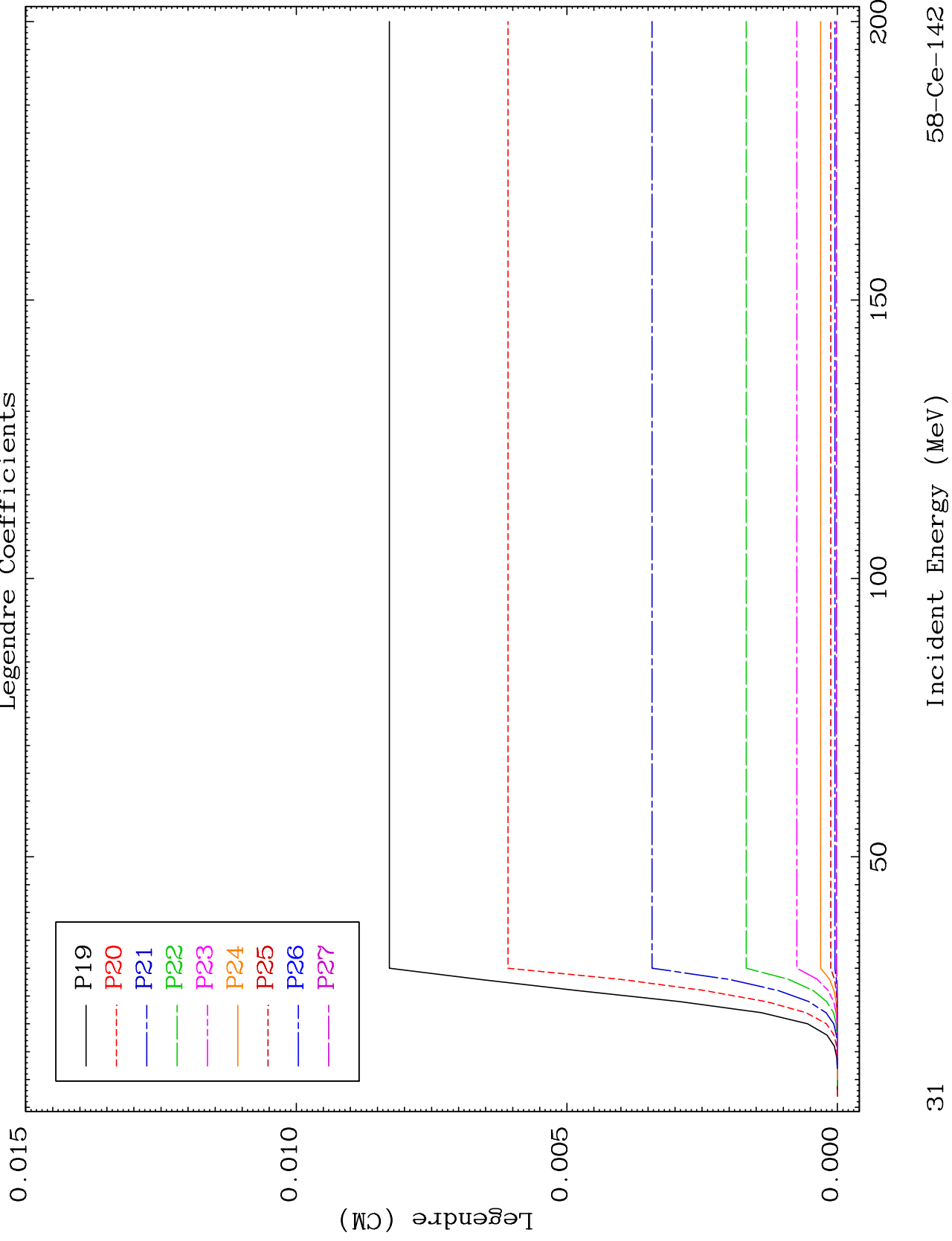
58-Ce-142

Incident Energy (MeV)

MAT 5843

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

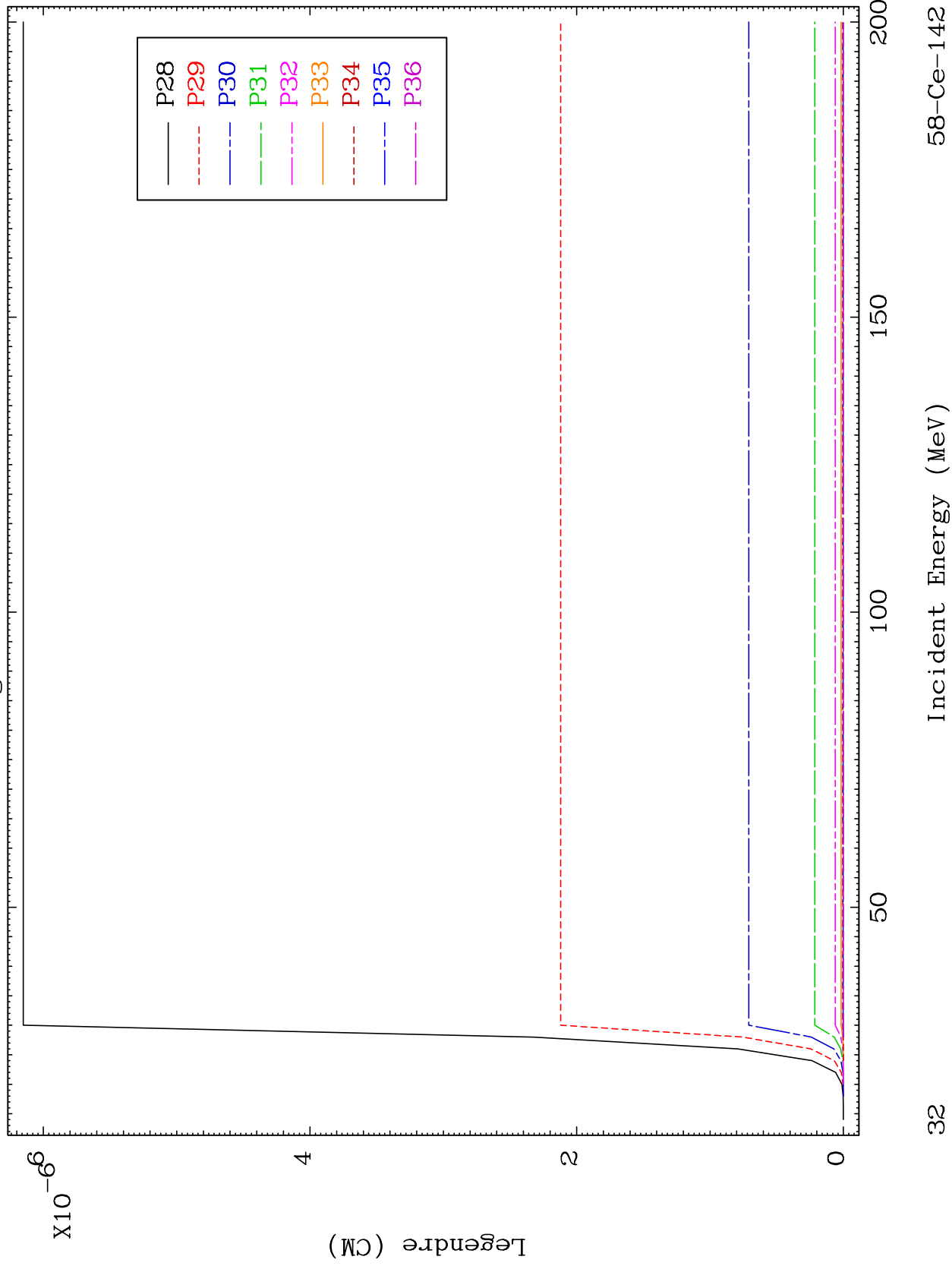
58-Ce-142



MAT 5843

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

58-Ce-142



32

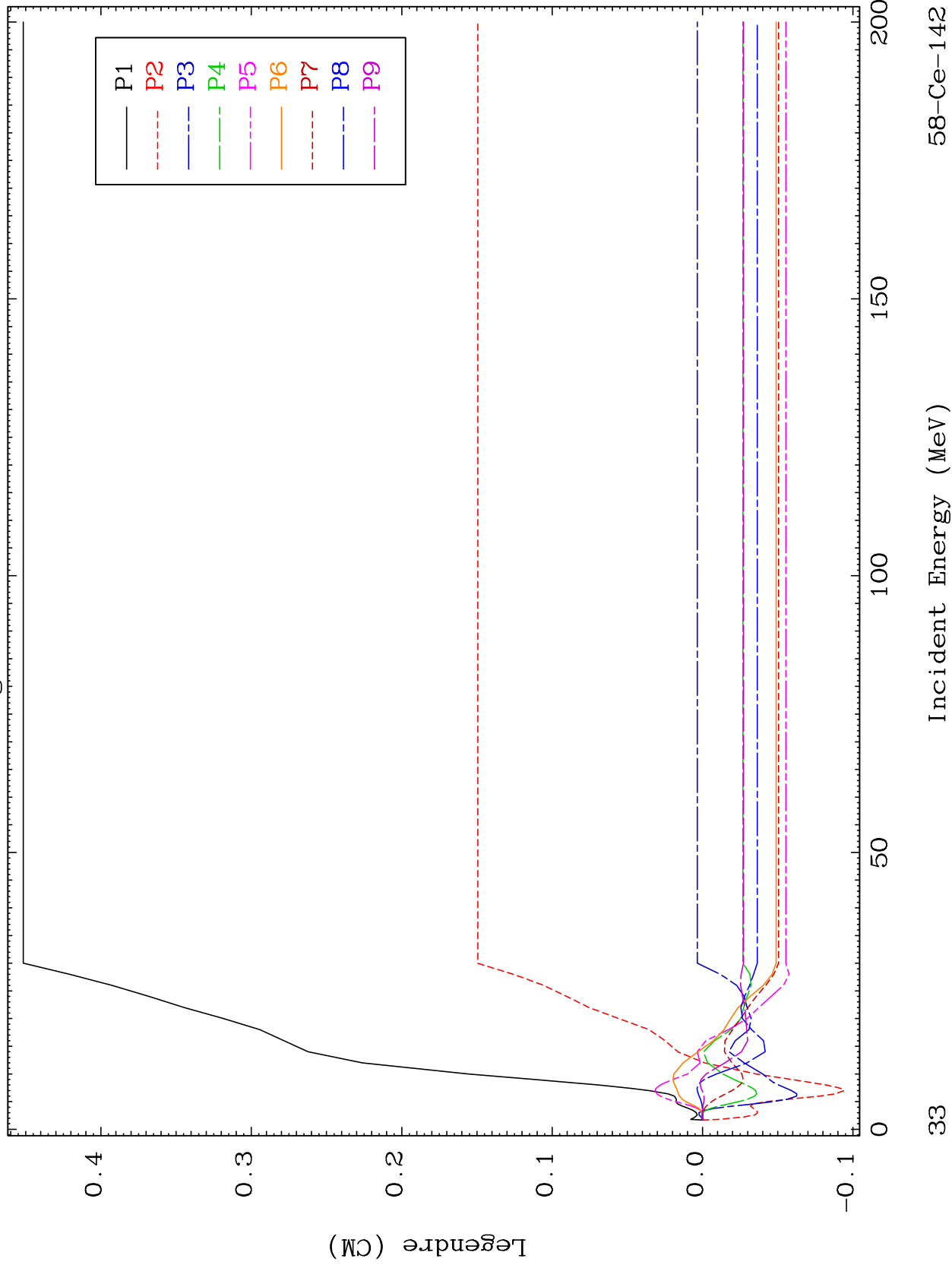
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

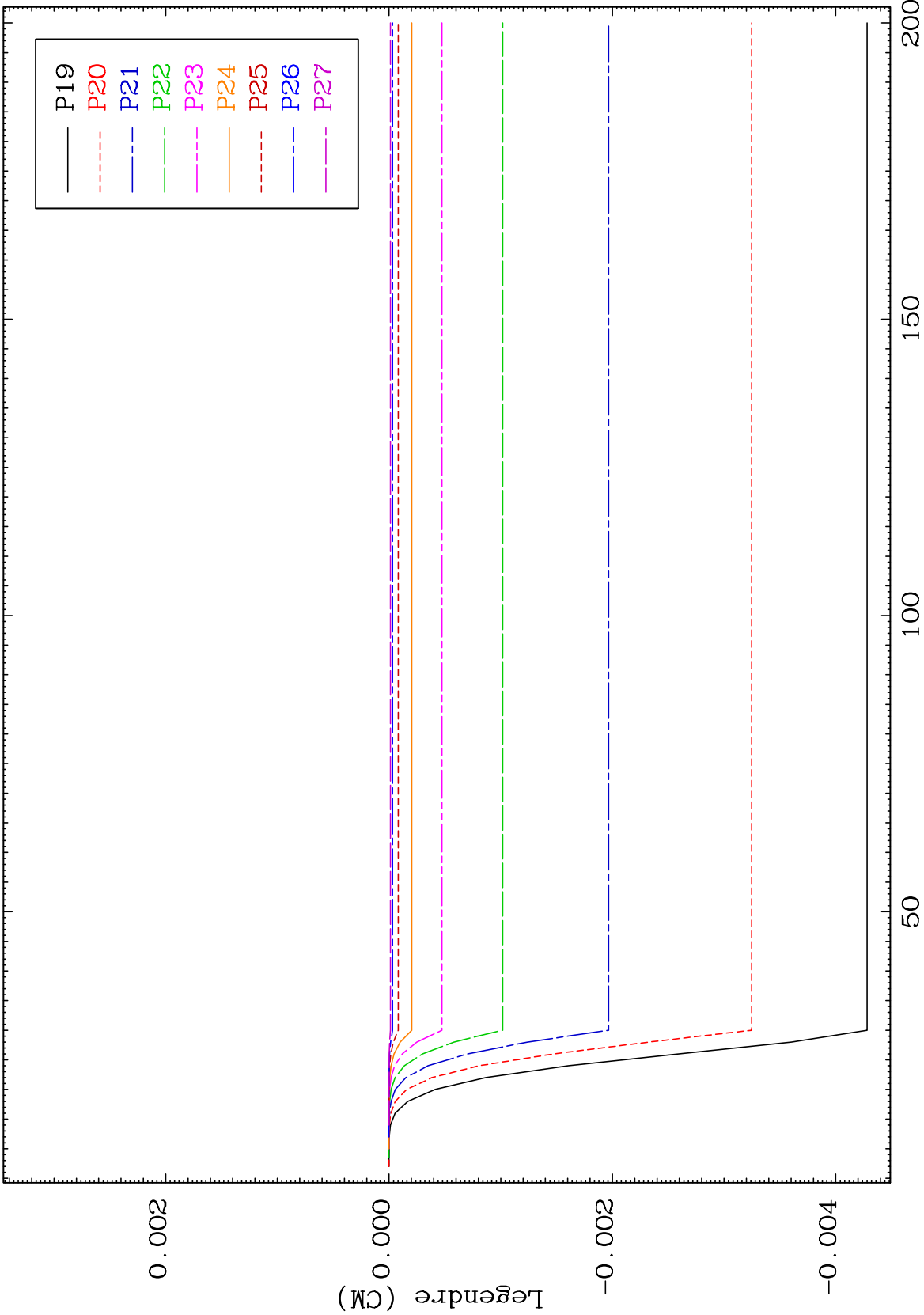
58-Ce-142



MAT 5843

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

58-Ce-142



35

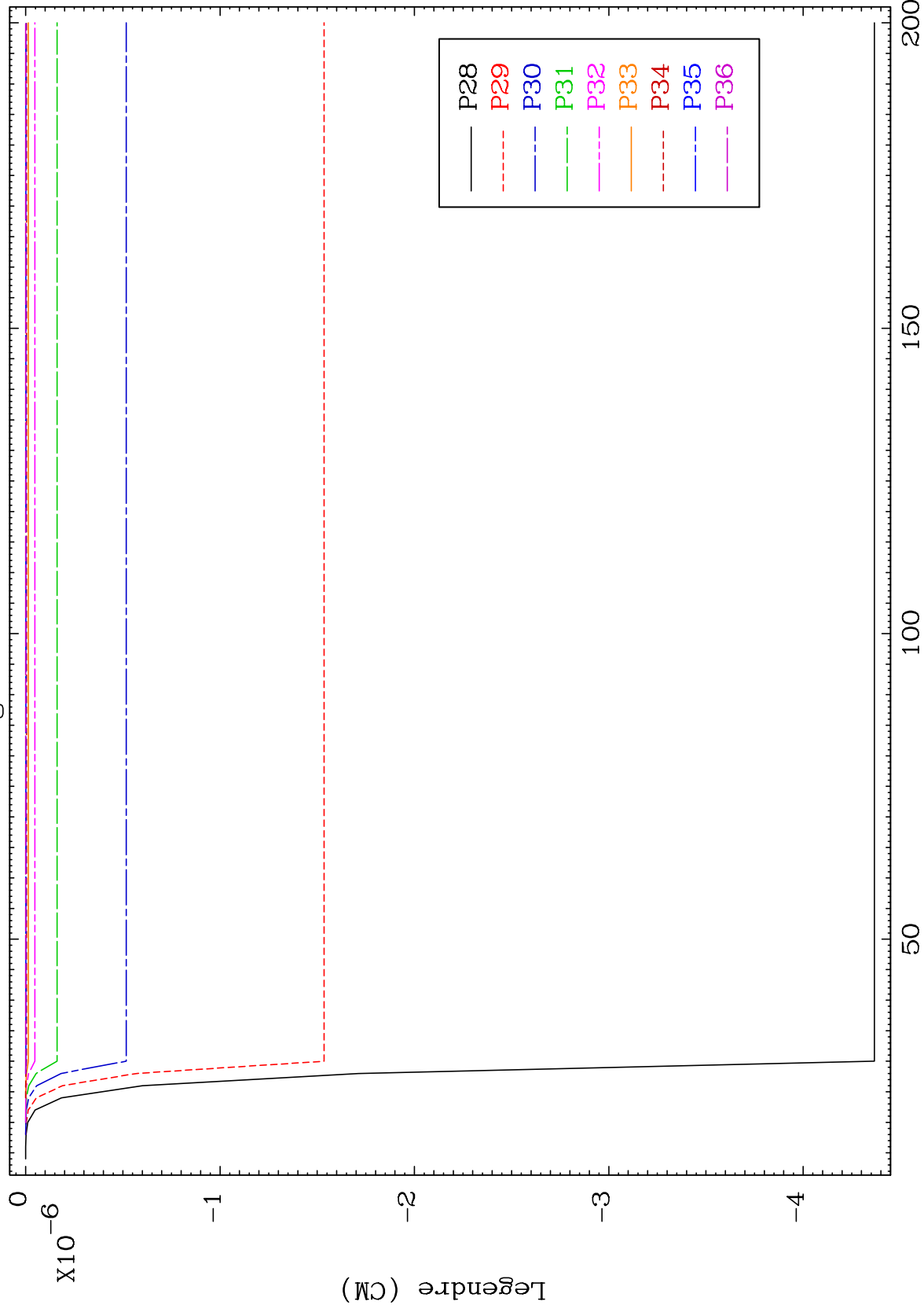
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



36

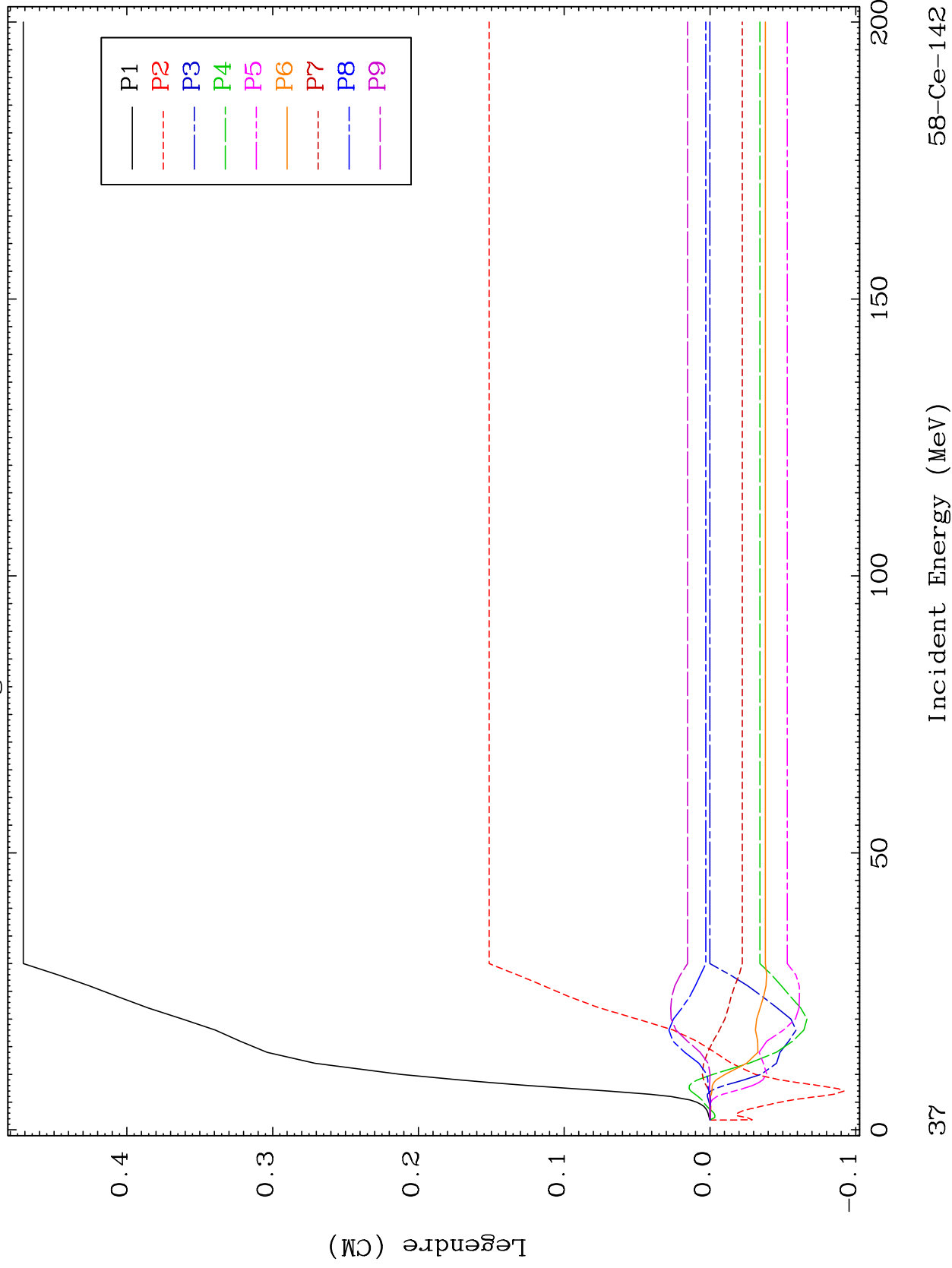
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



58-Ce-142

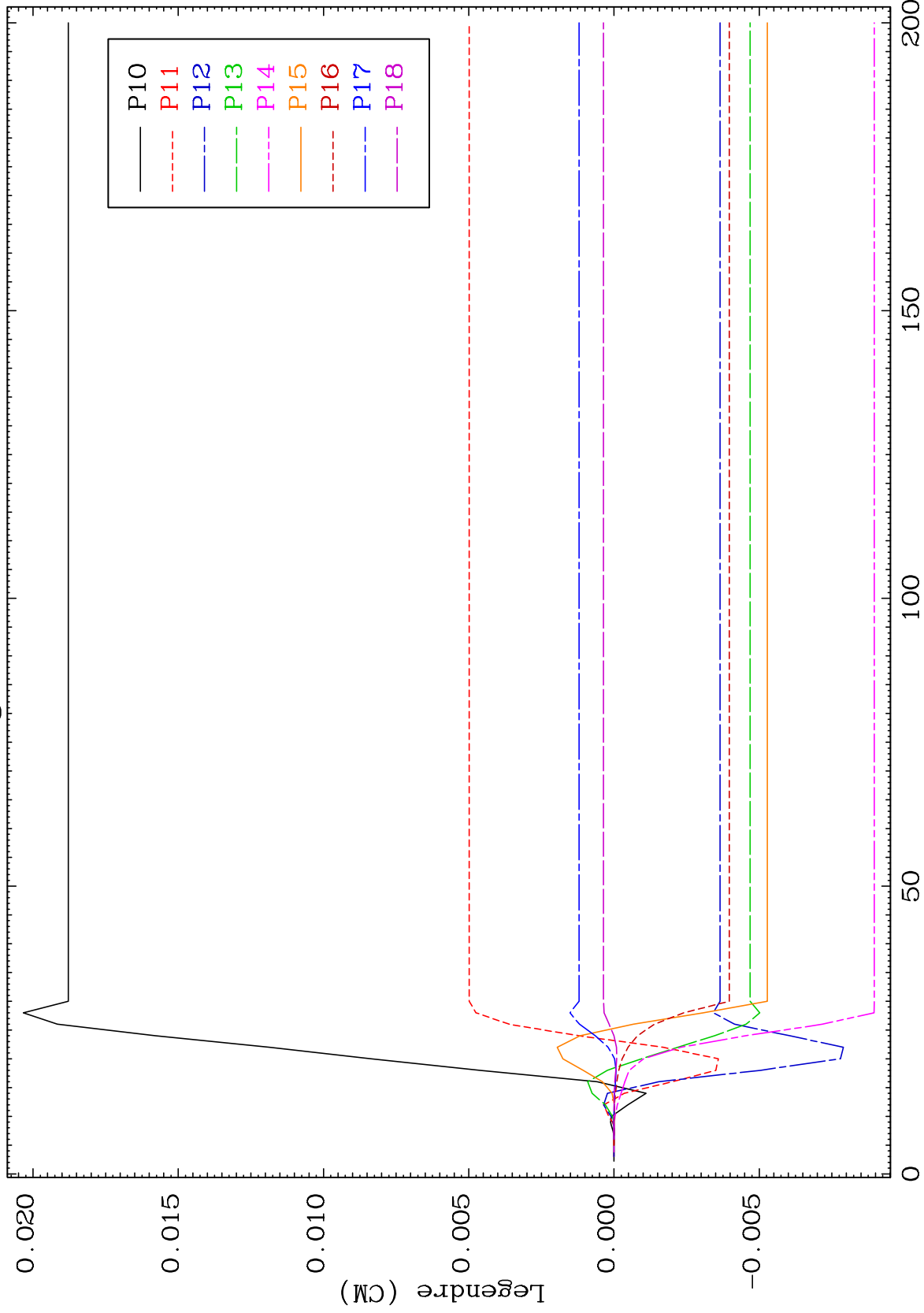
Incident Energy (MeV)

37

MAT 5843

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

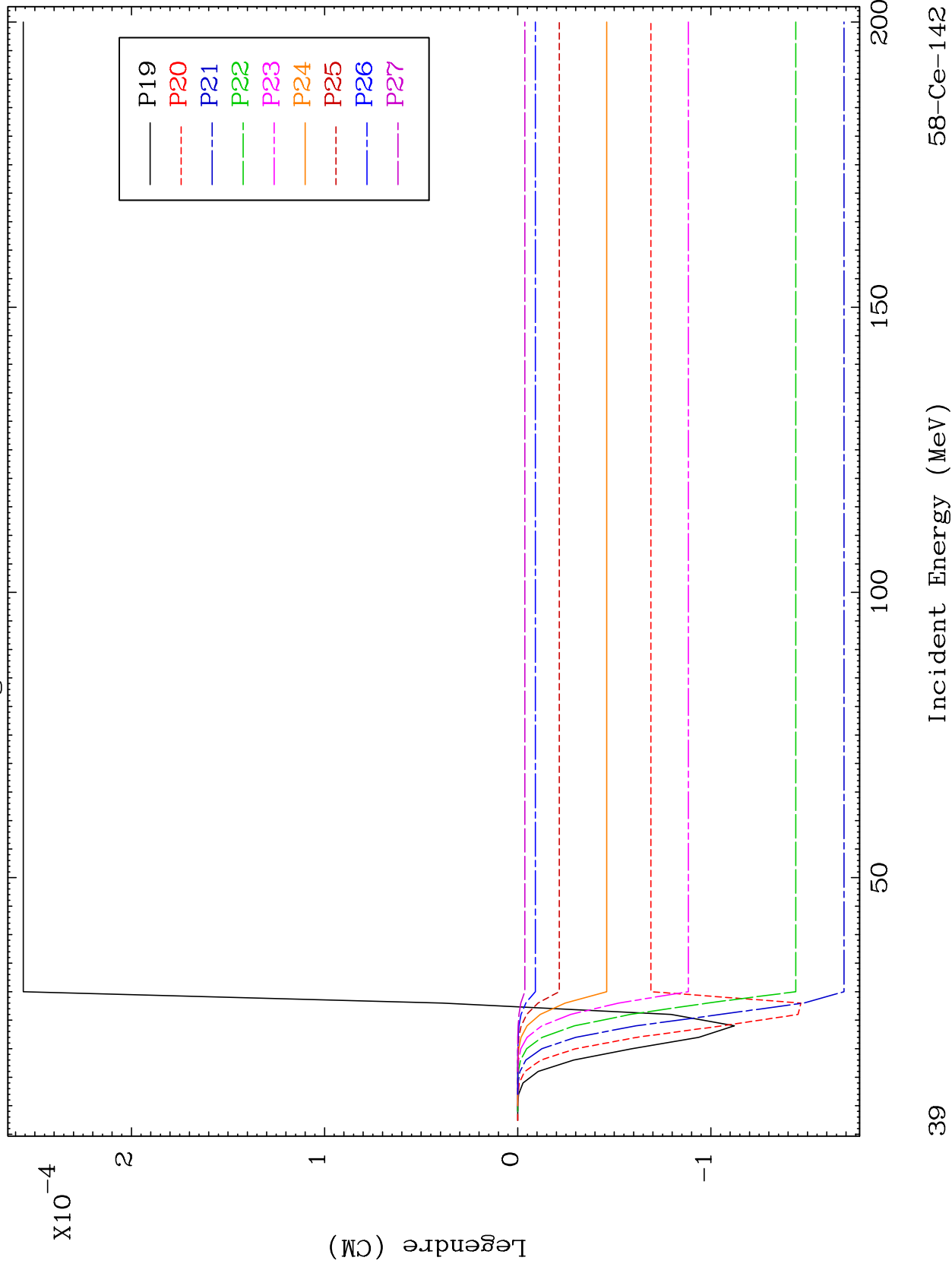
58-Ce-142

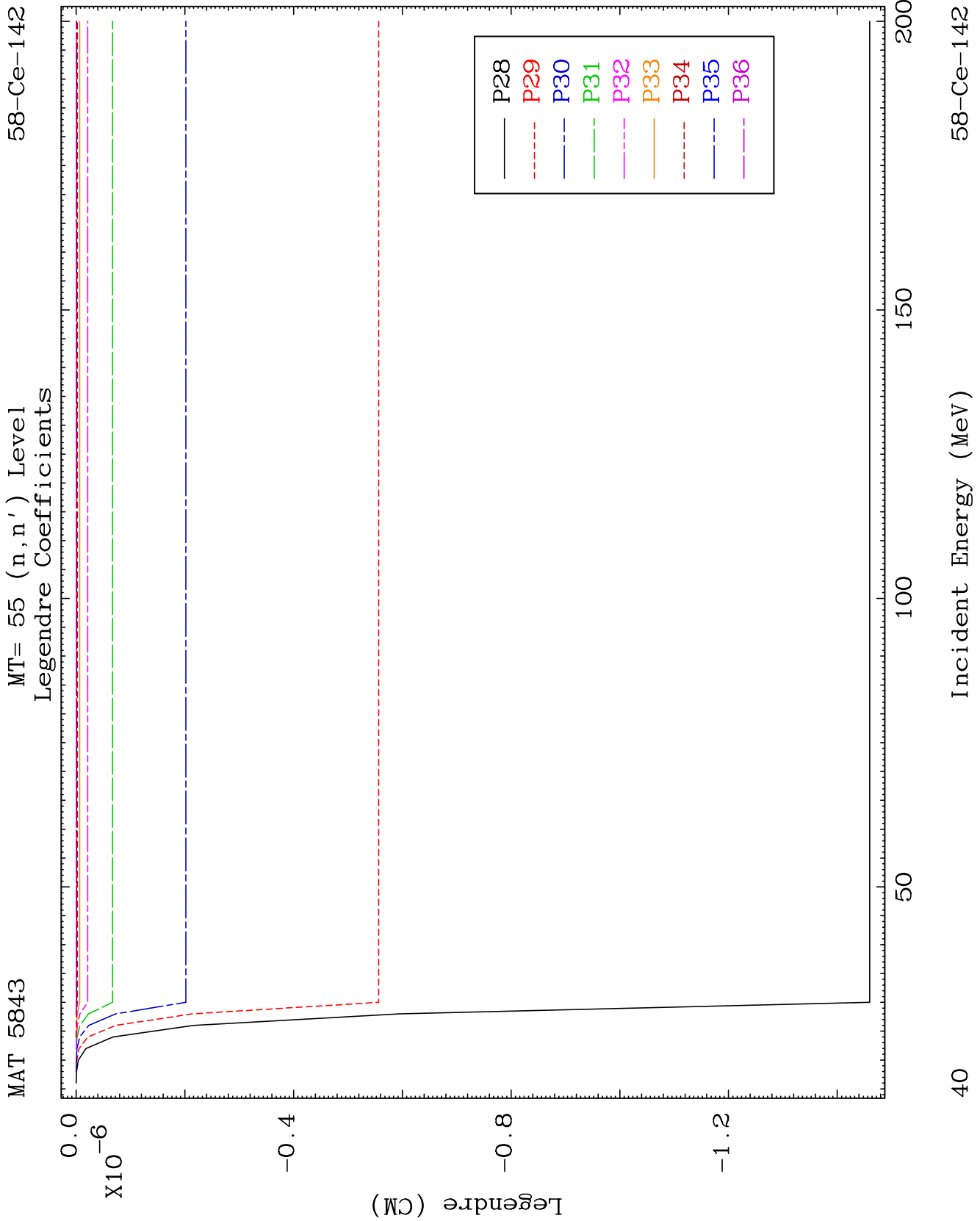


38

Incident Energy (MeV)

58-Ce-142

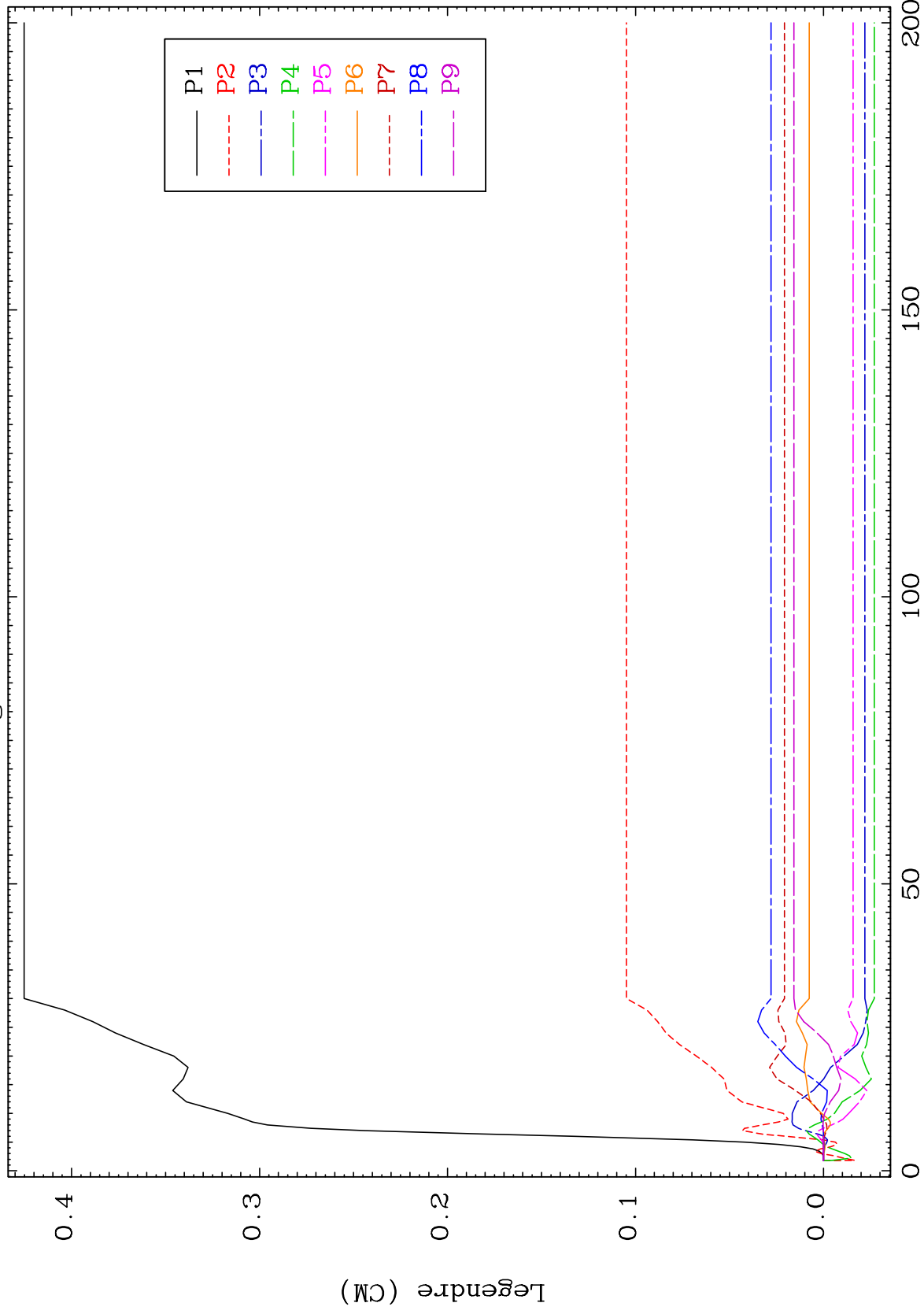




MAT 5843

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

58-Ce-142



41

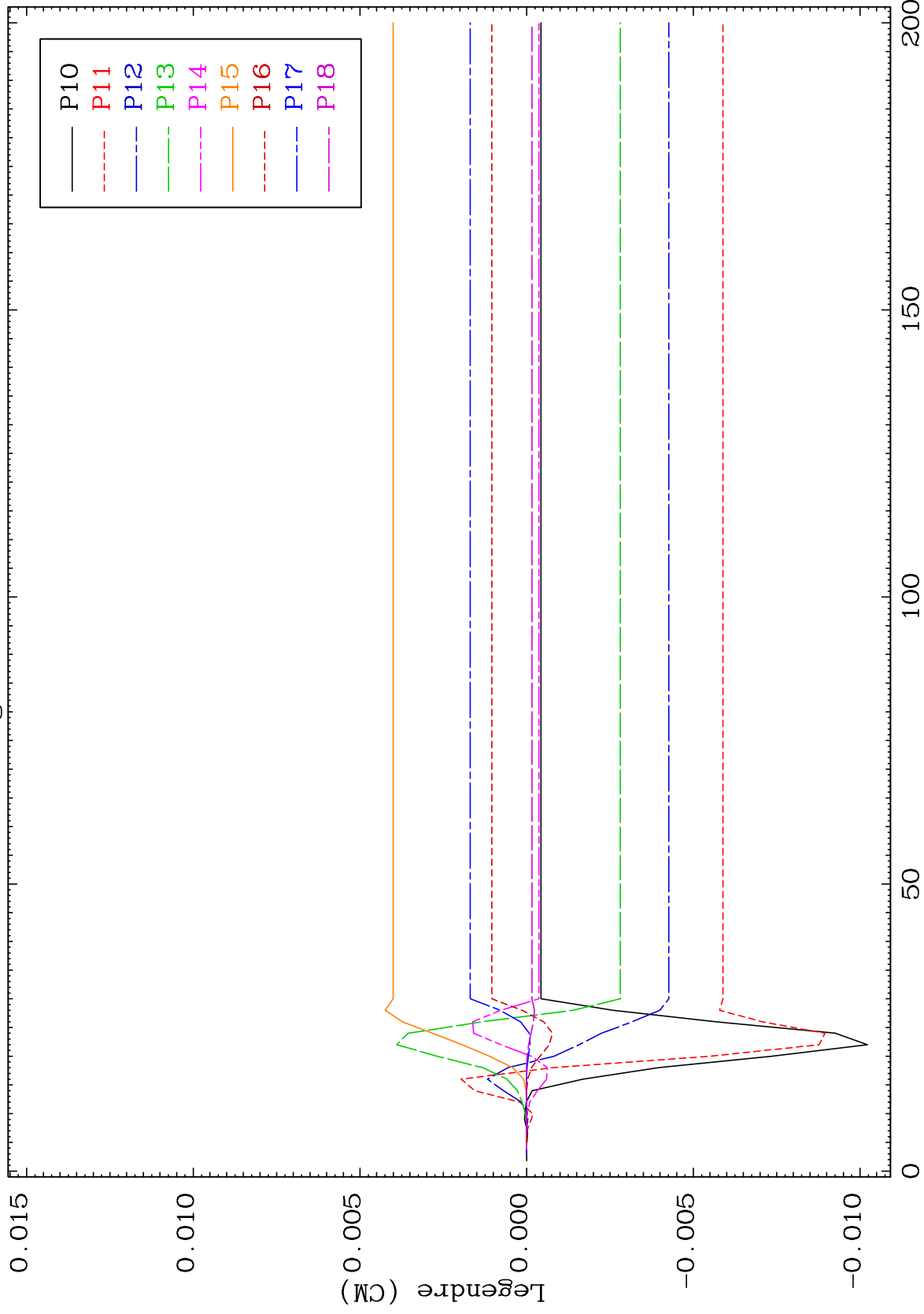
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



42

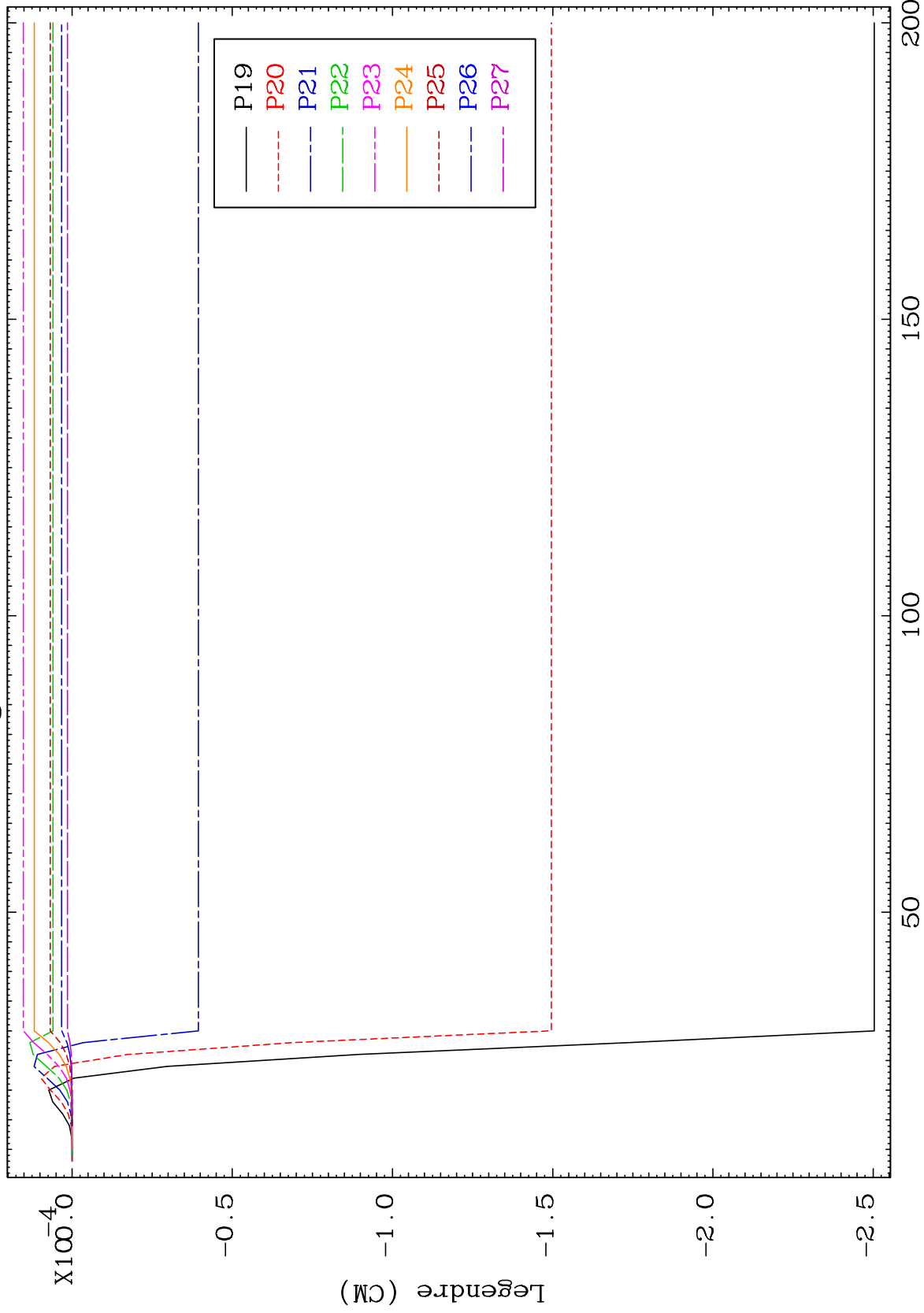
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



43

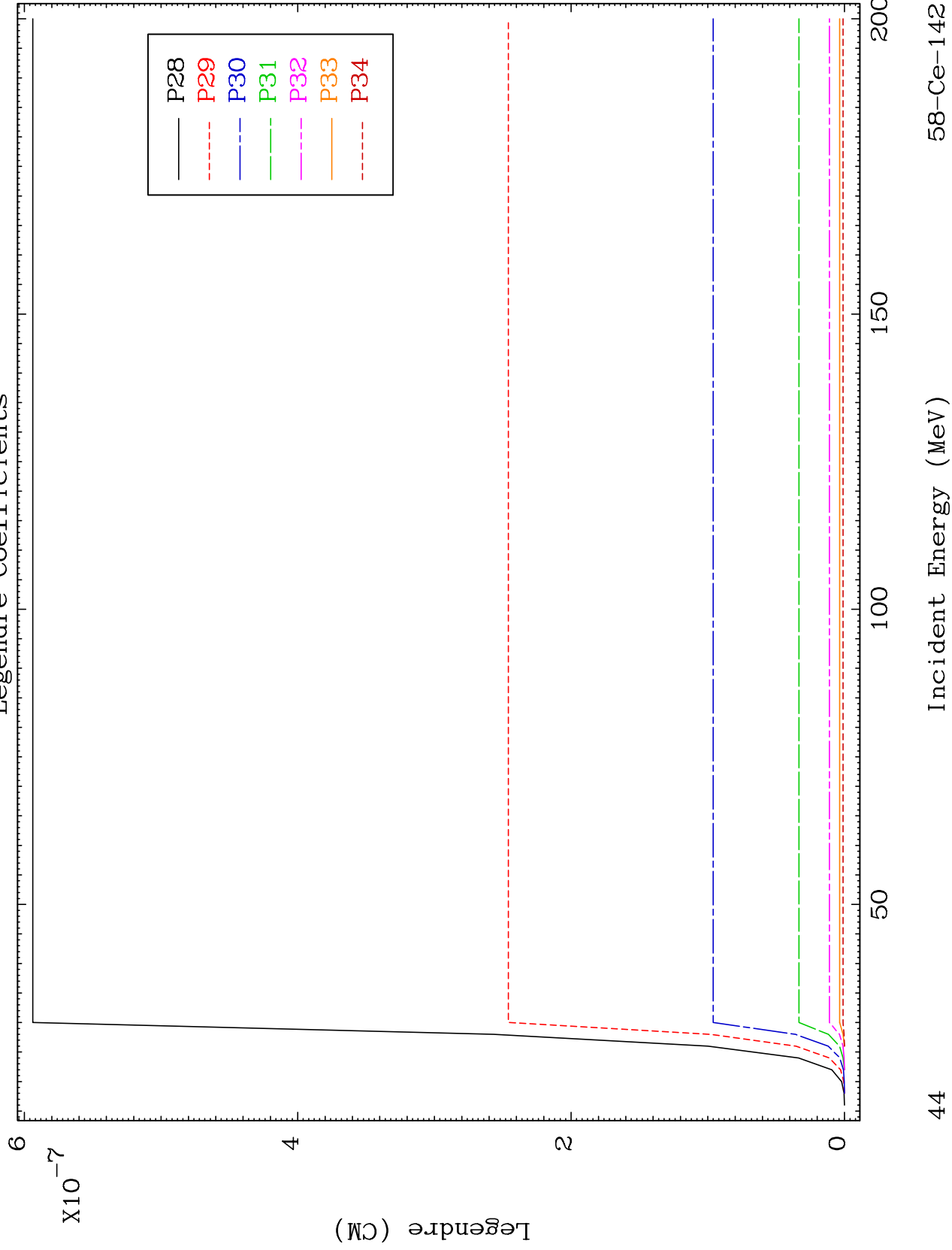
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

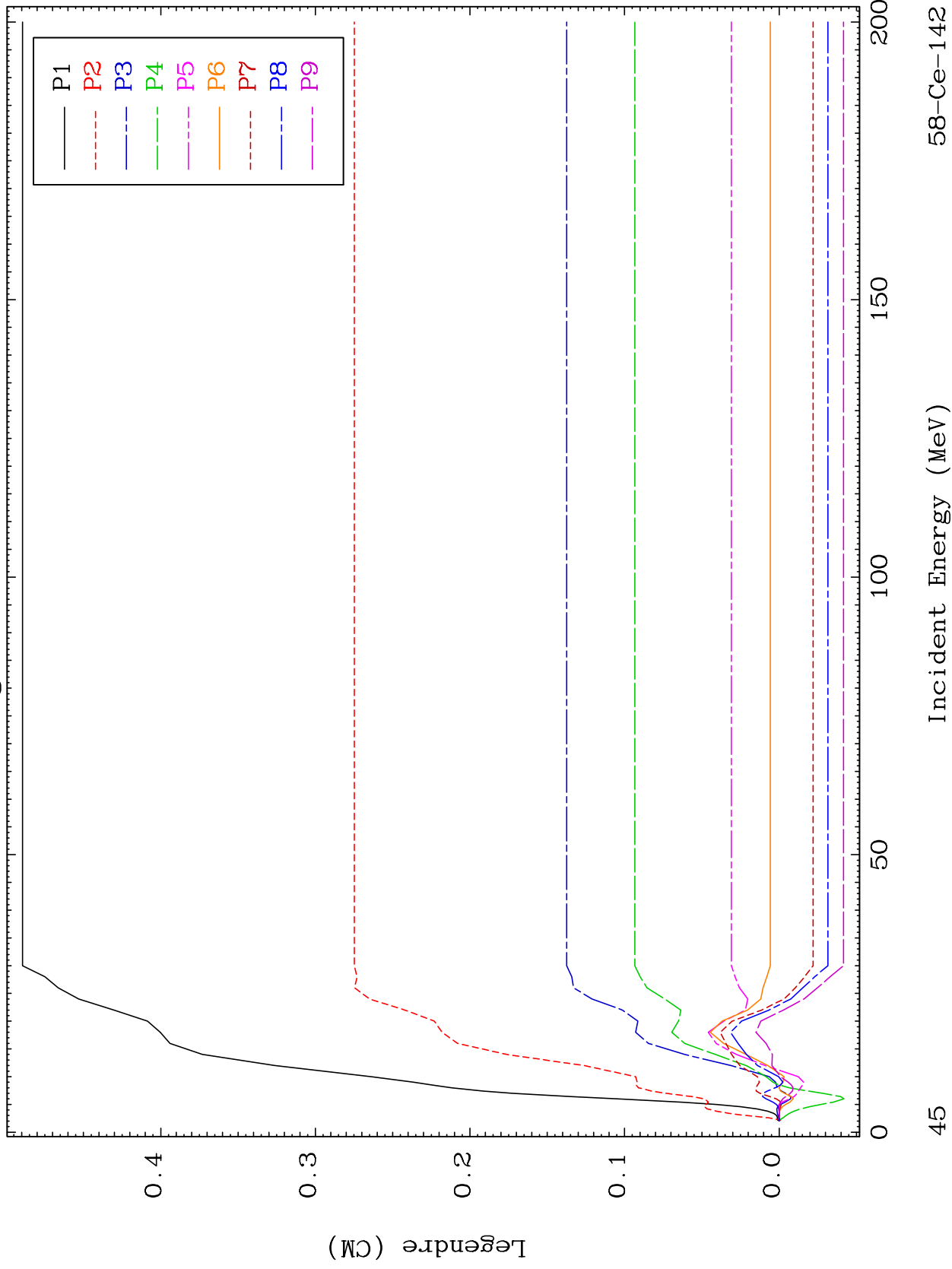
58-Ce-142



MAT 5843

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

58-Ce-142



58-Ce-142

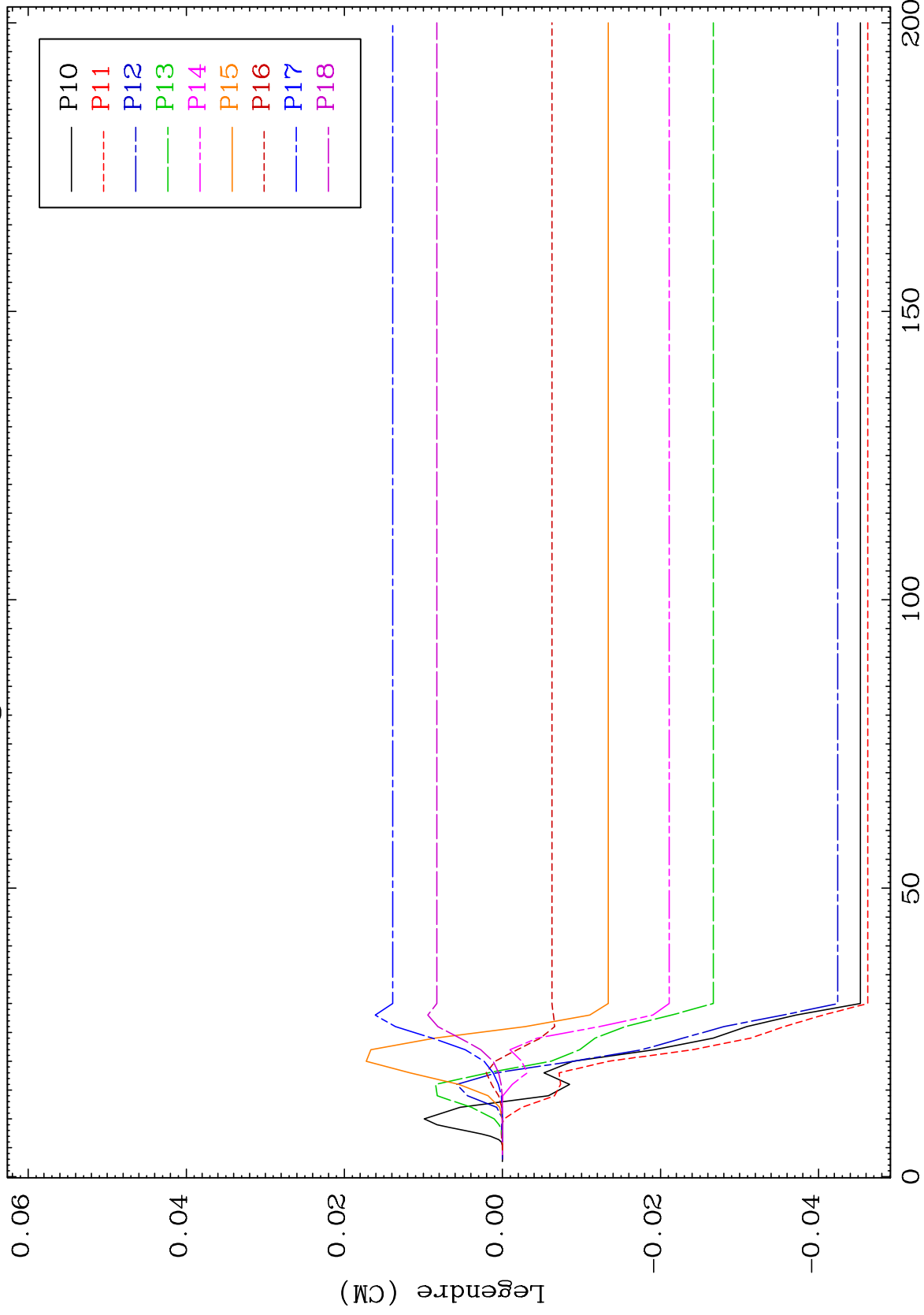
Incident Energy (MeV)

45

MAT 5843

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

58-Ce-142



46

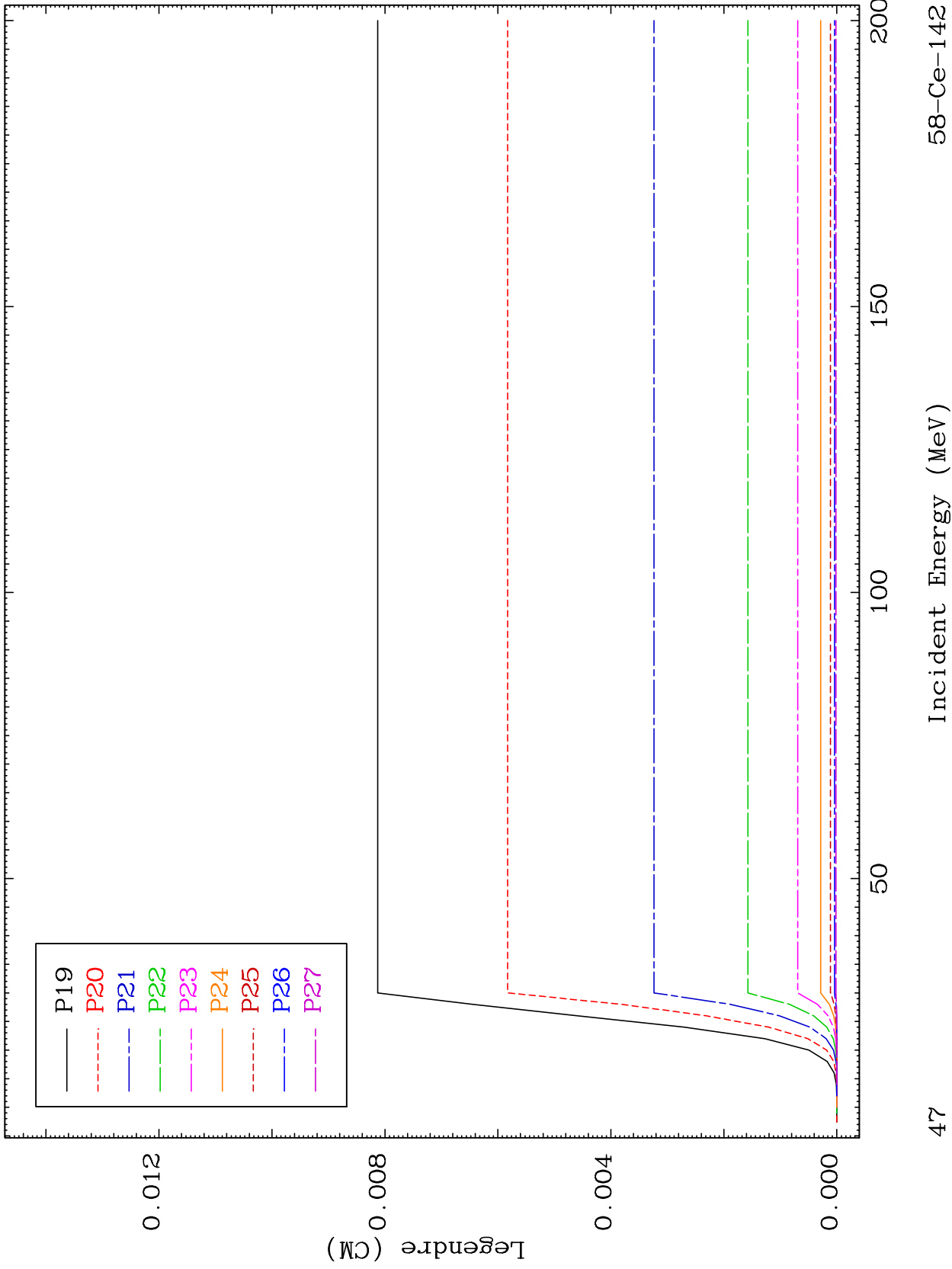
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



47

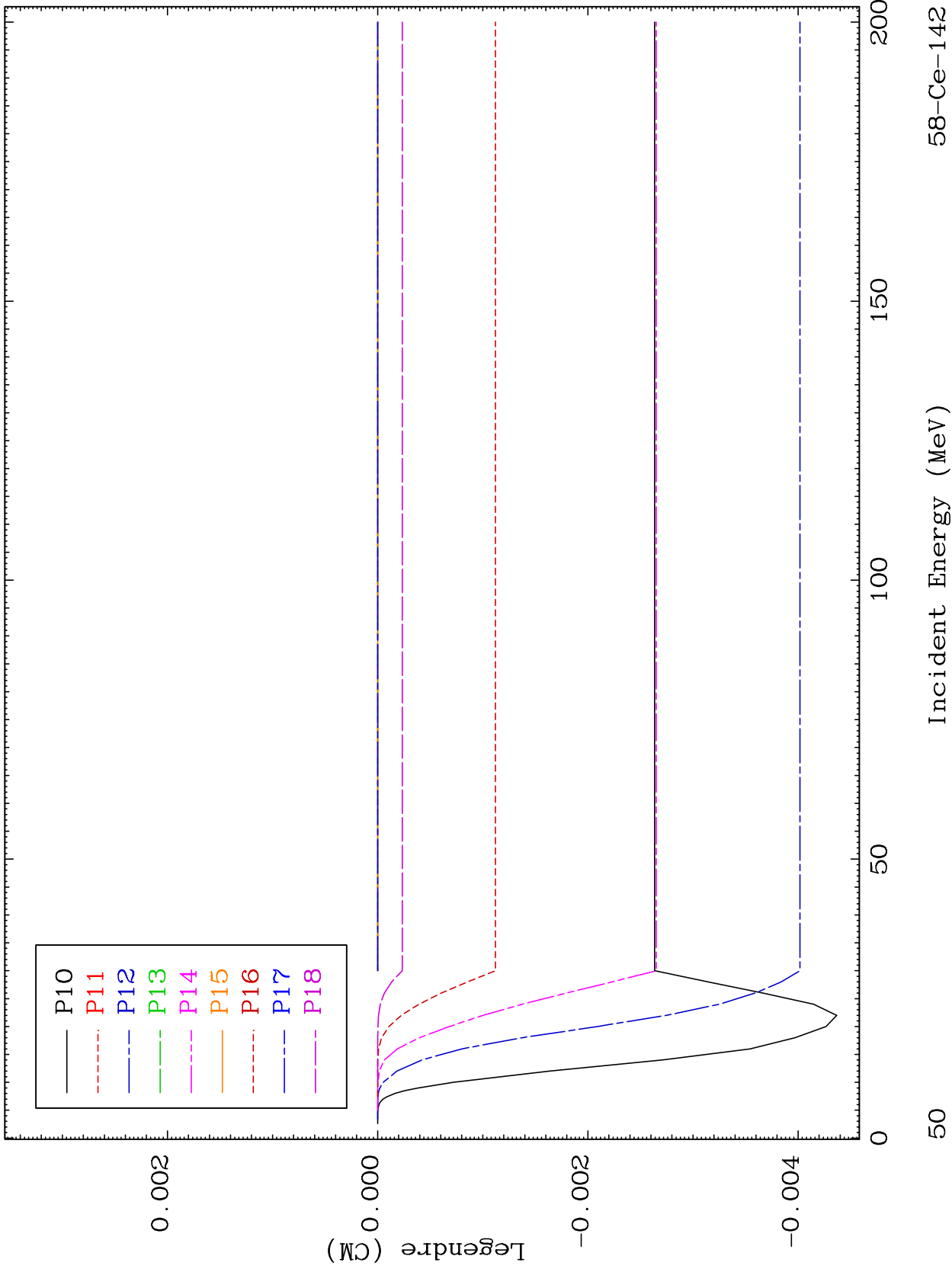
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

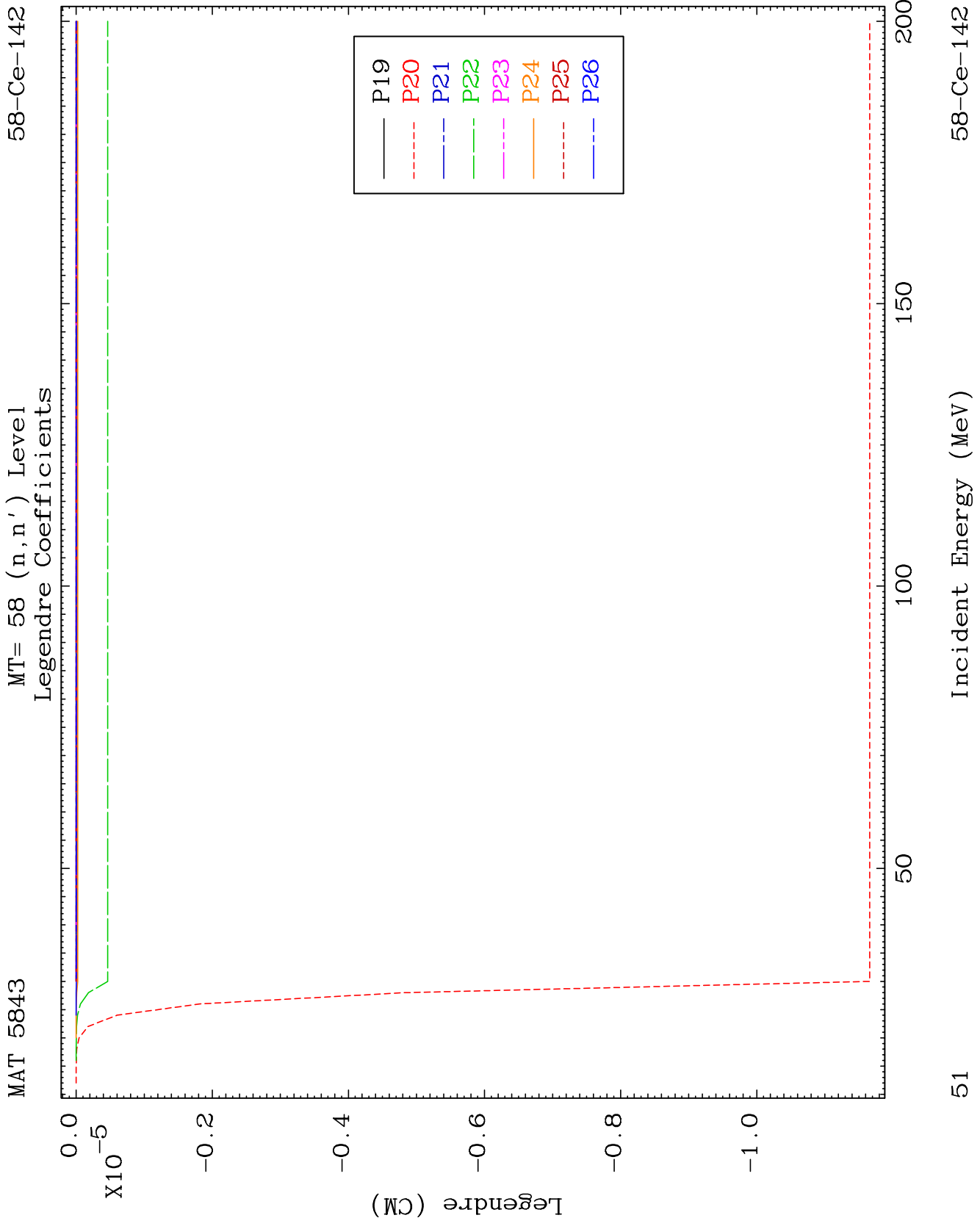
58-Ce-142

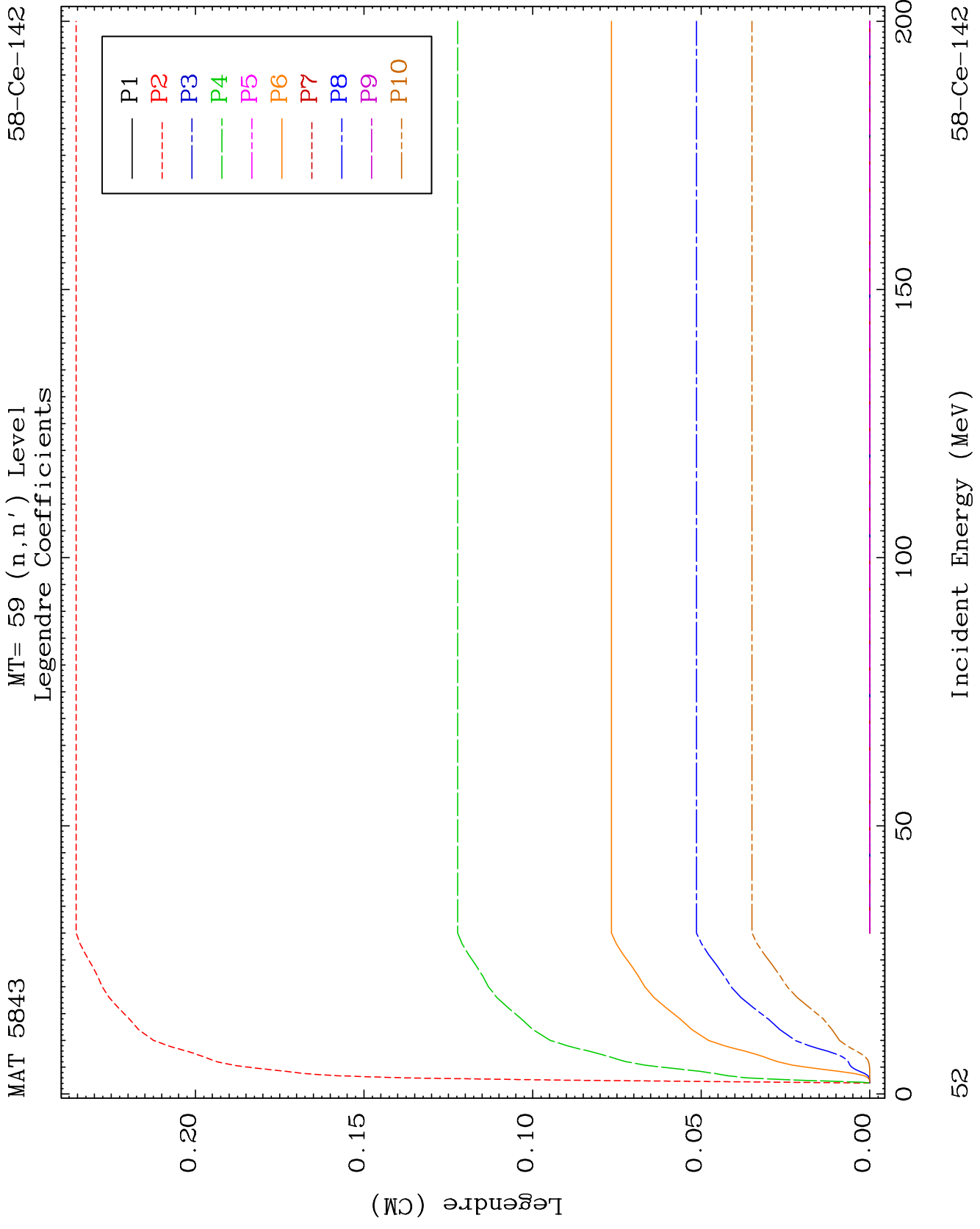


58-Ce-142

Incident Energy (MeV)

50

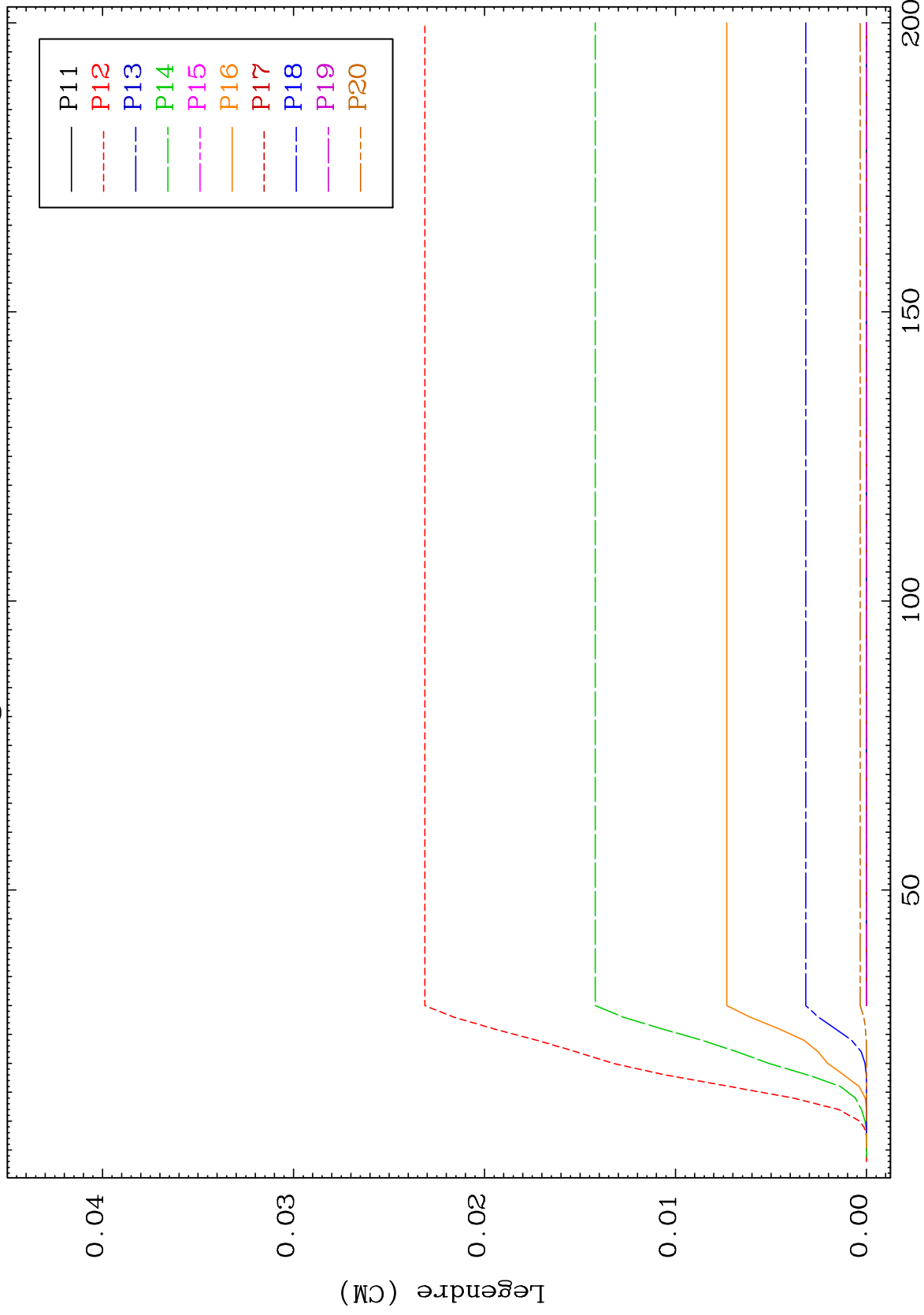




MAT 5843

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

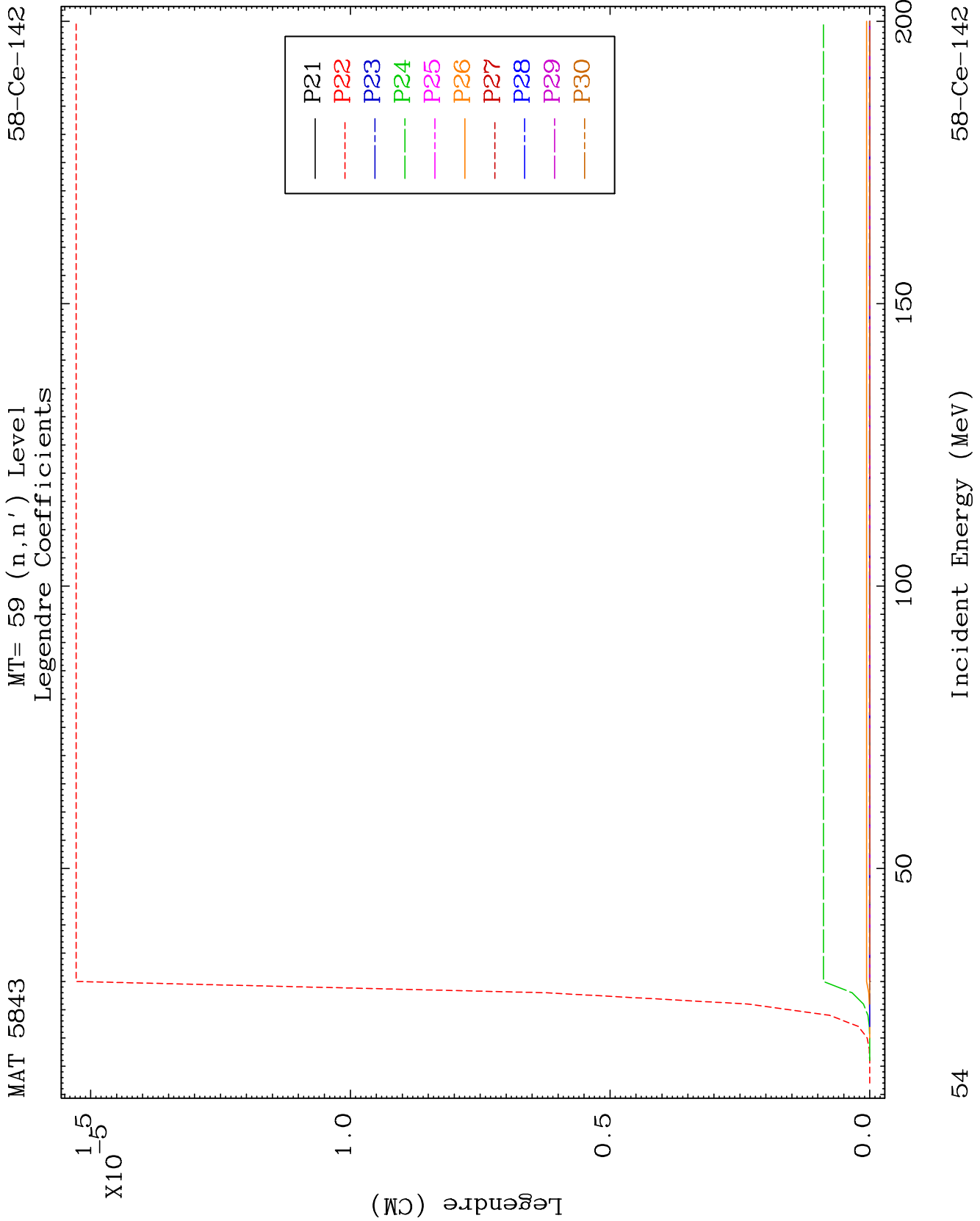
58-Ce-142

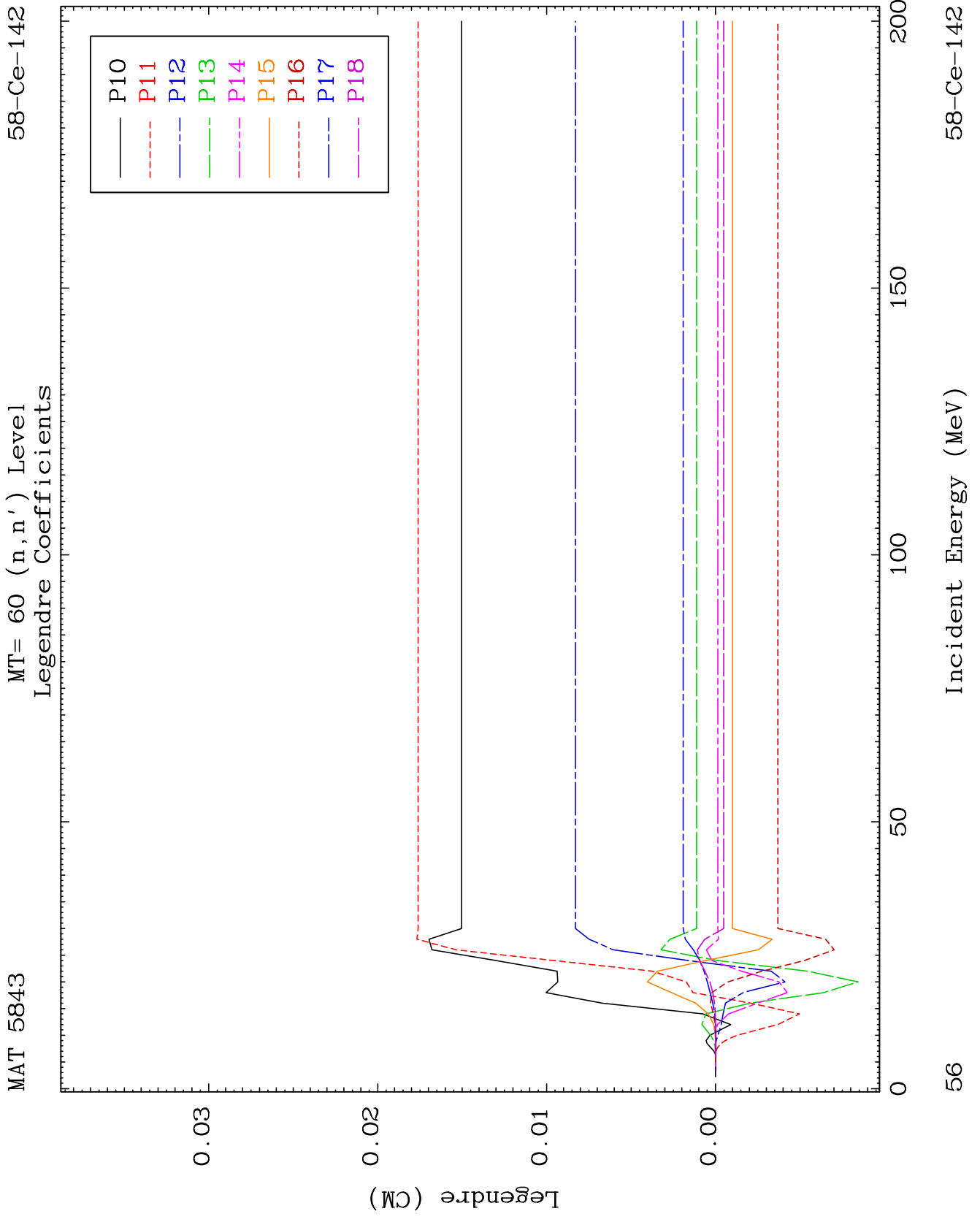


53

Incident Energy (MeV)

58-Ce-142

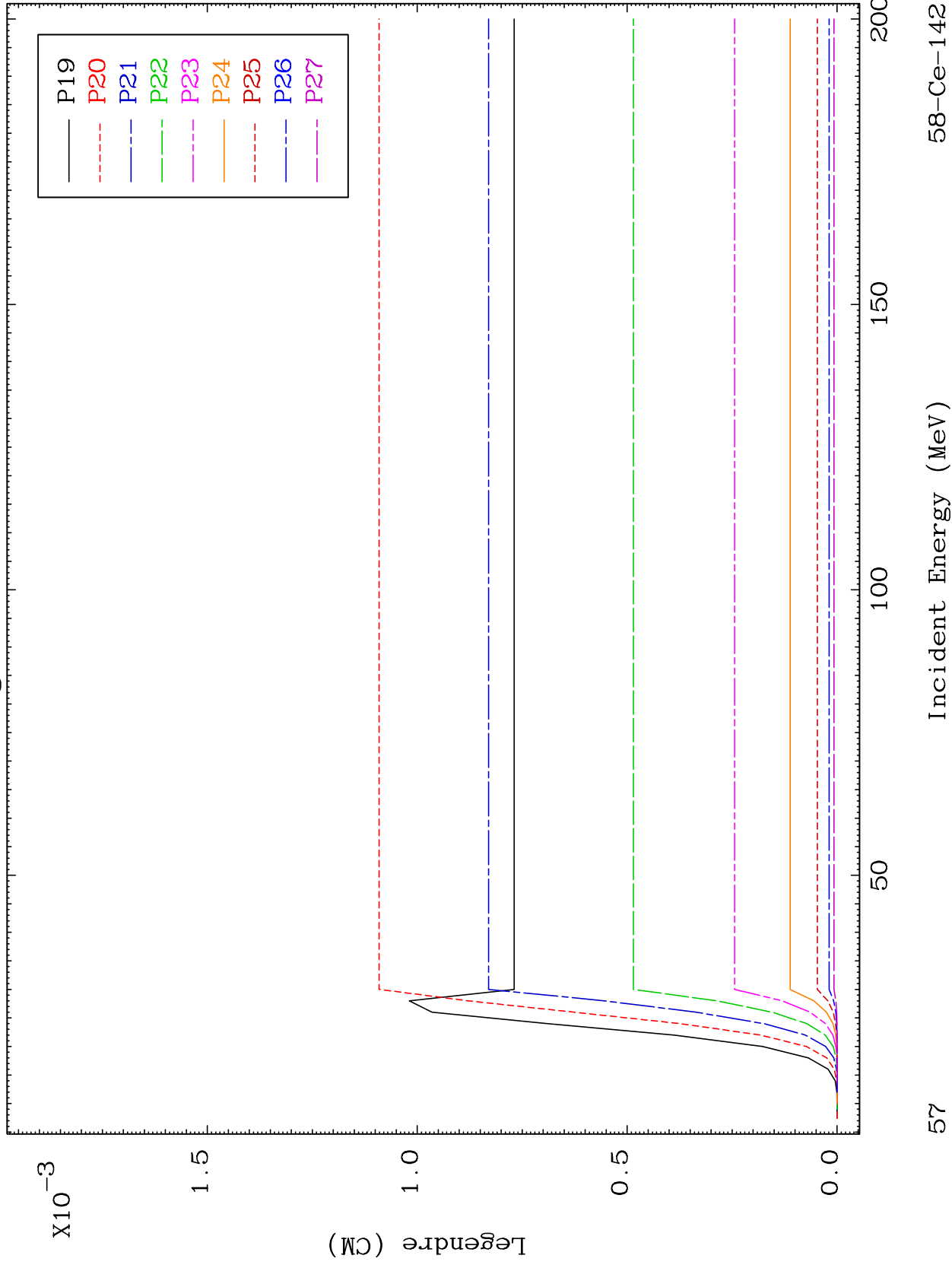




MAT 5843

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

58-Ce-142



57

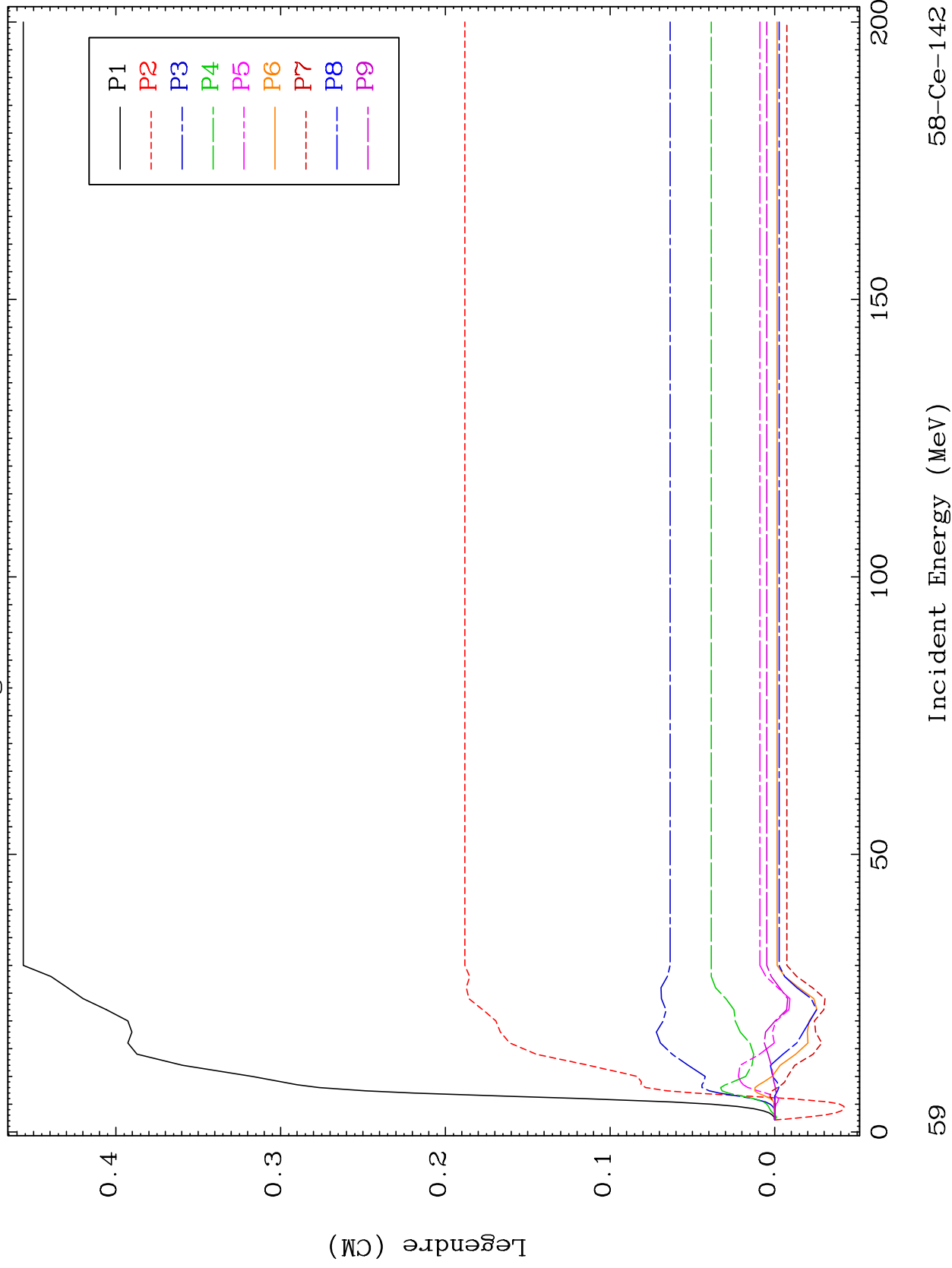
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



58-Ce-142

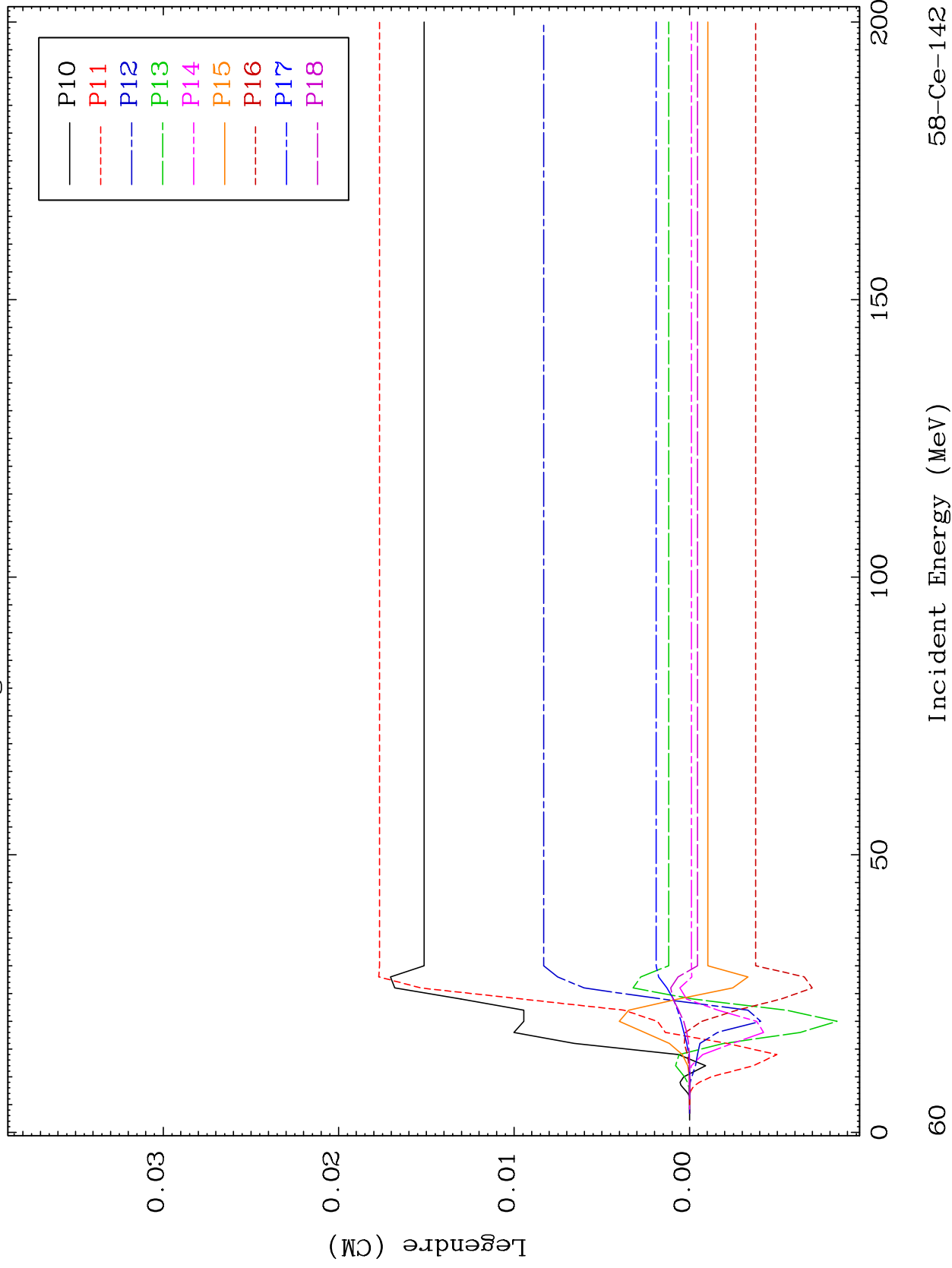
Incident Energy (MeV)

59

MAT 5843

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

58-Ce-142



58-Ce-142

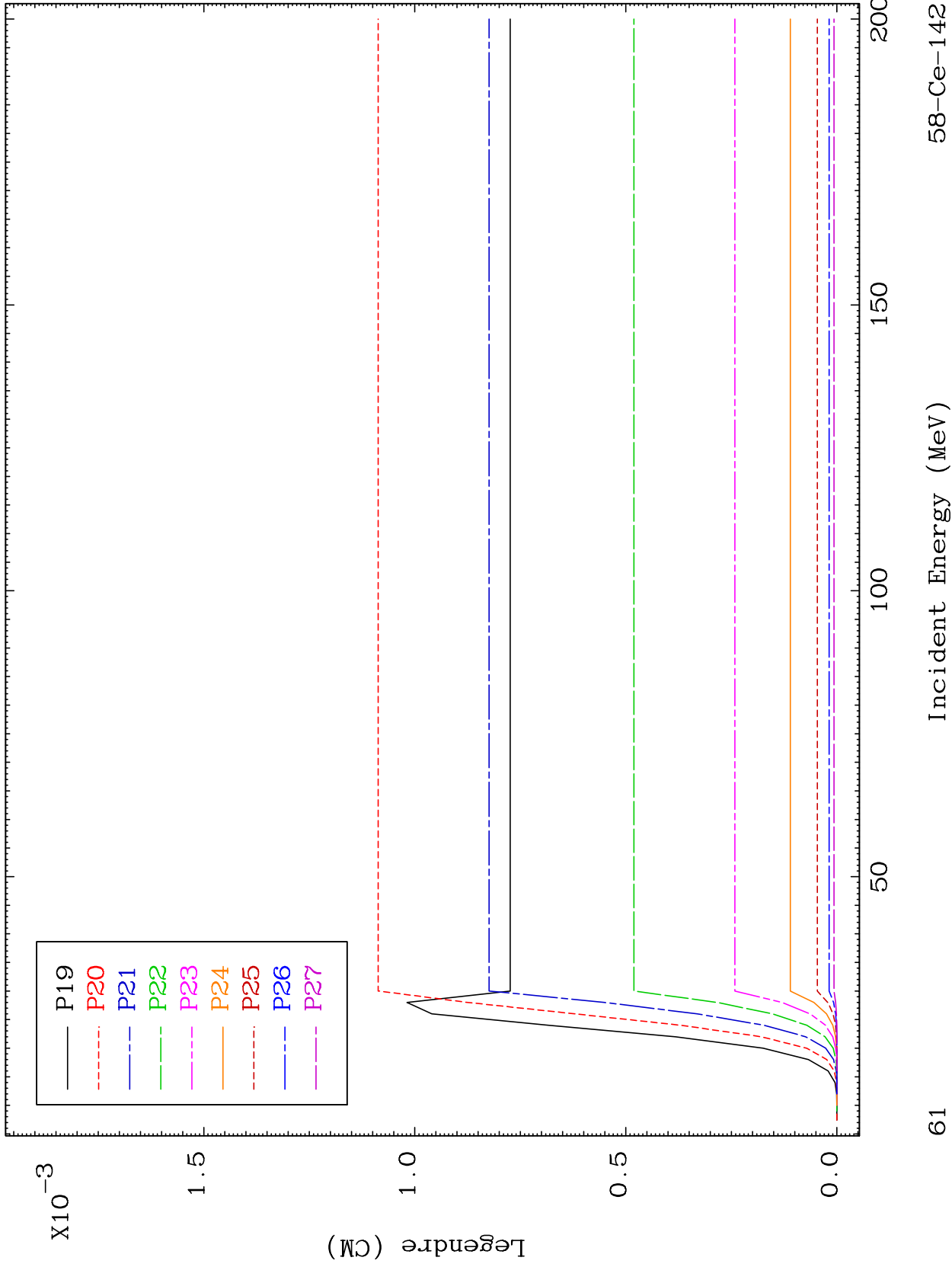
Incident Energy (MeV)

60

MAT 5843

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

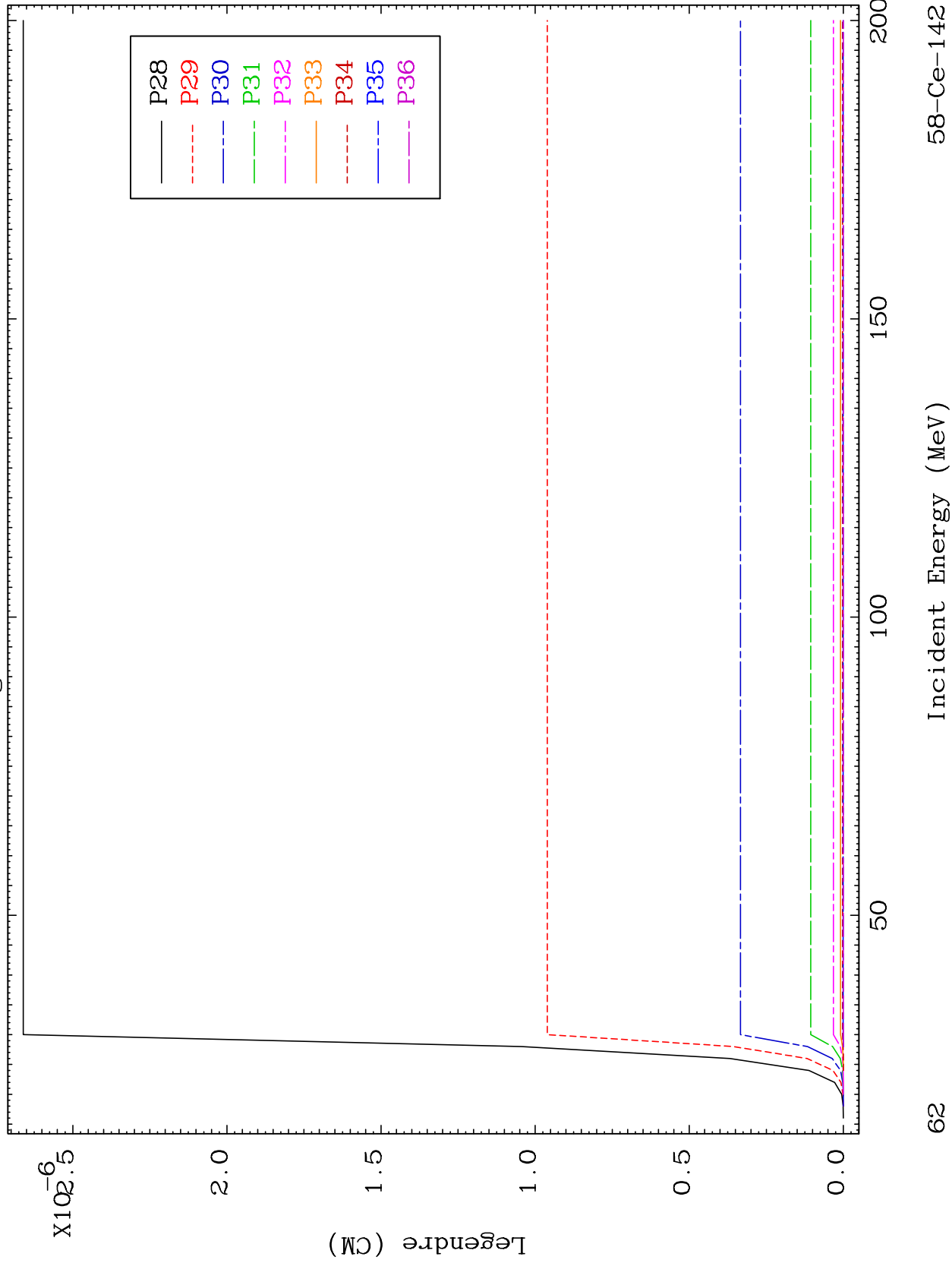
58-Ce-142



MAT 5843

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

58-Ce-142



62

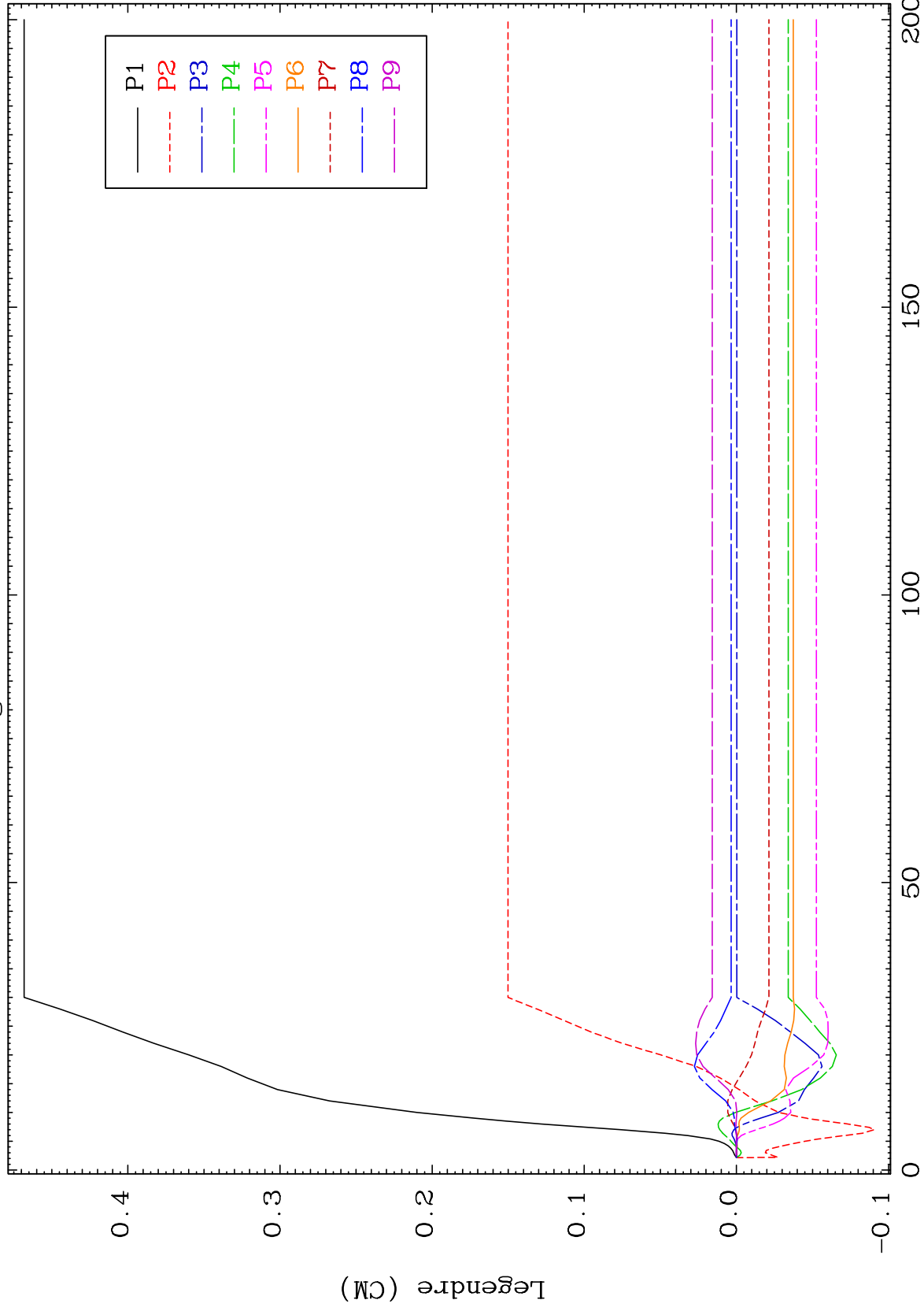
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



63

Incident Energy (MeV)

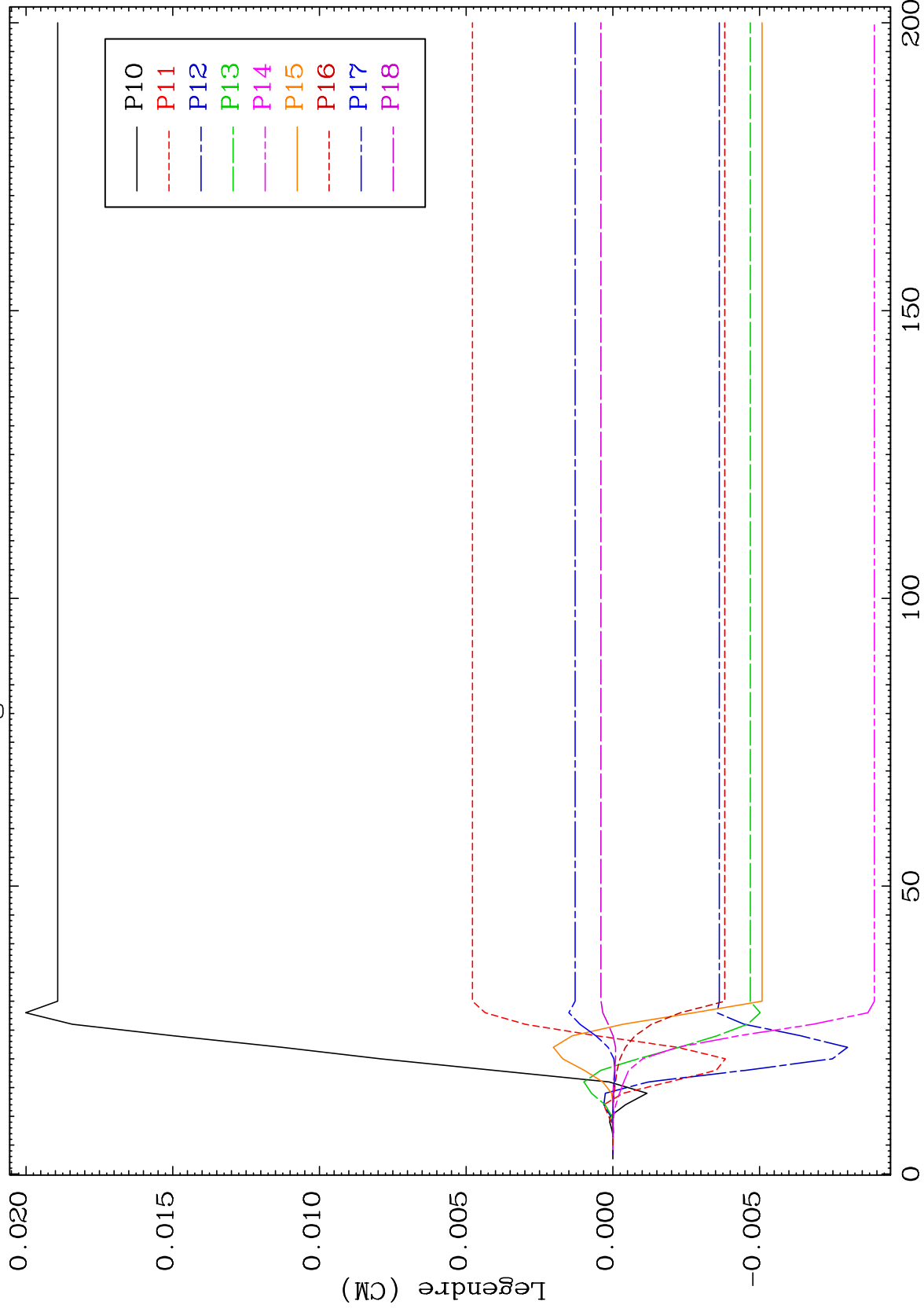
58-Ce-142

MAT 5843

MT= 62 (n,n') Level

58-Ce-142

Legendre Coefficients



64

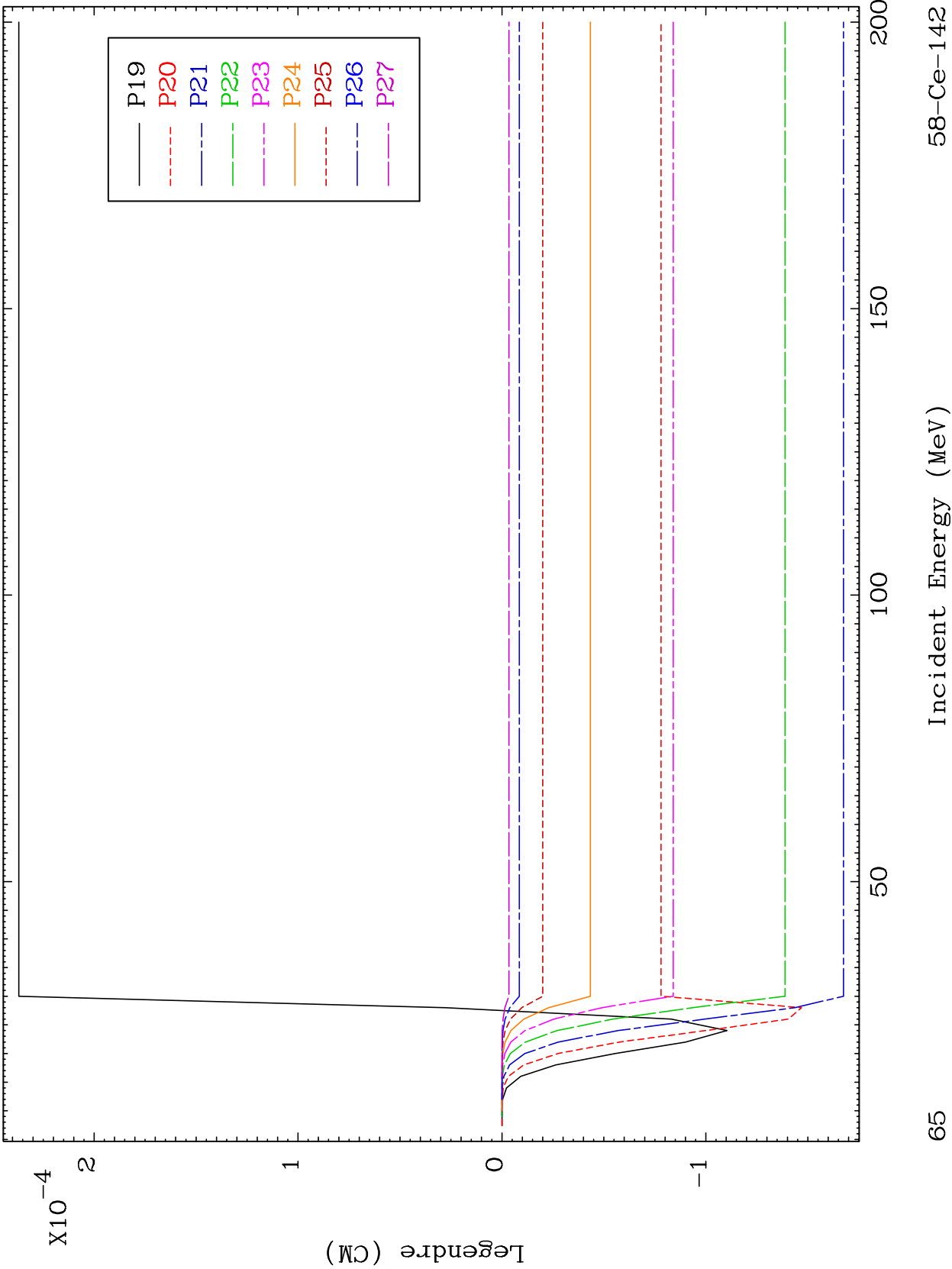
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

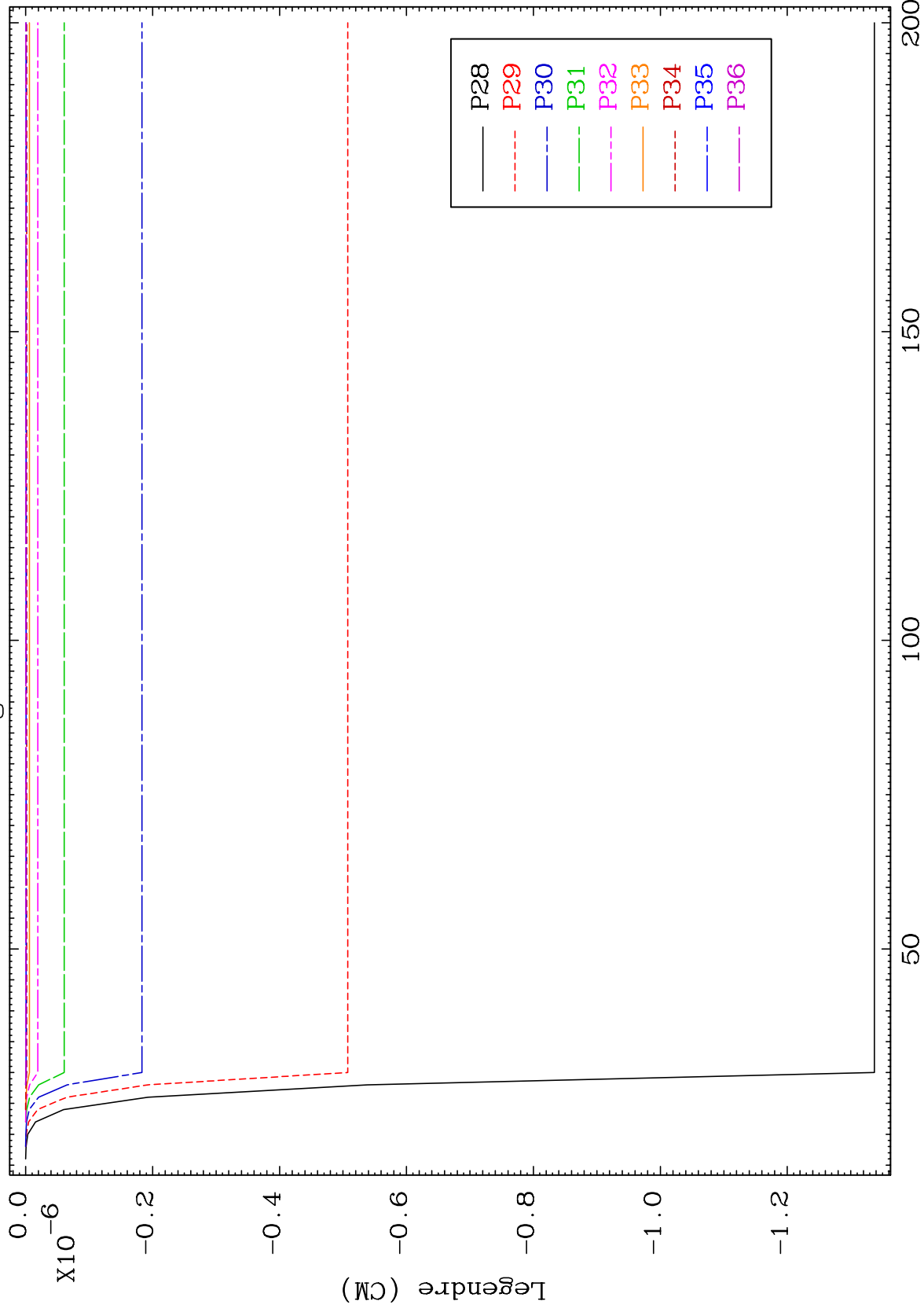
58-Ce-142



MAT 5843

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

58-Ce-142



66

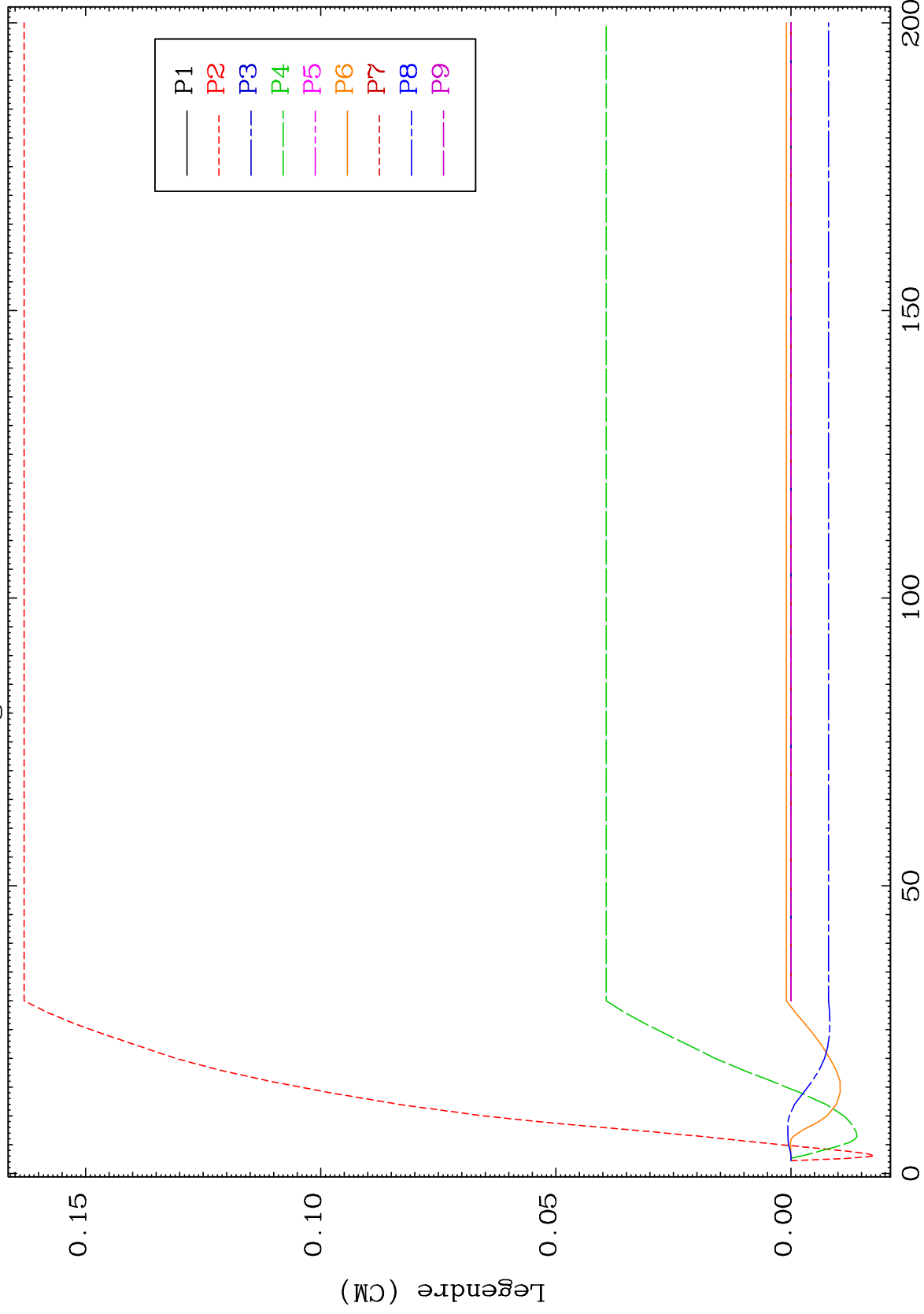
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



67

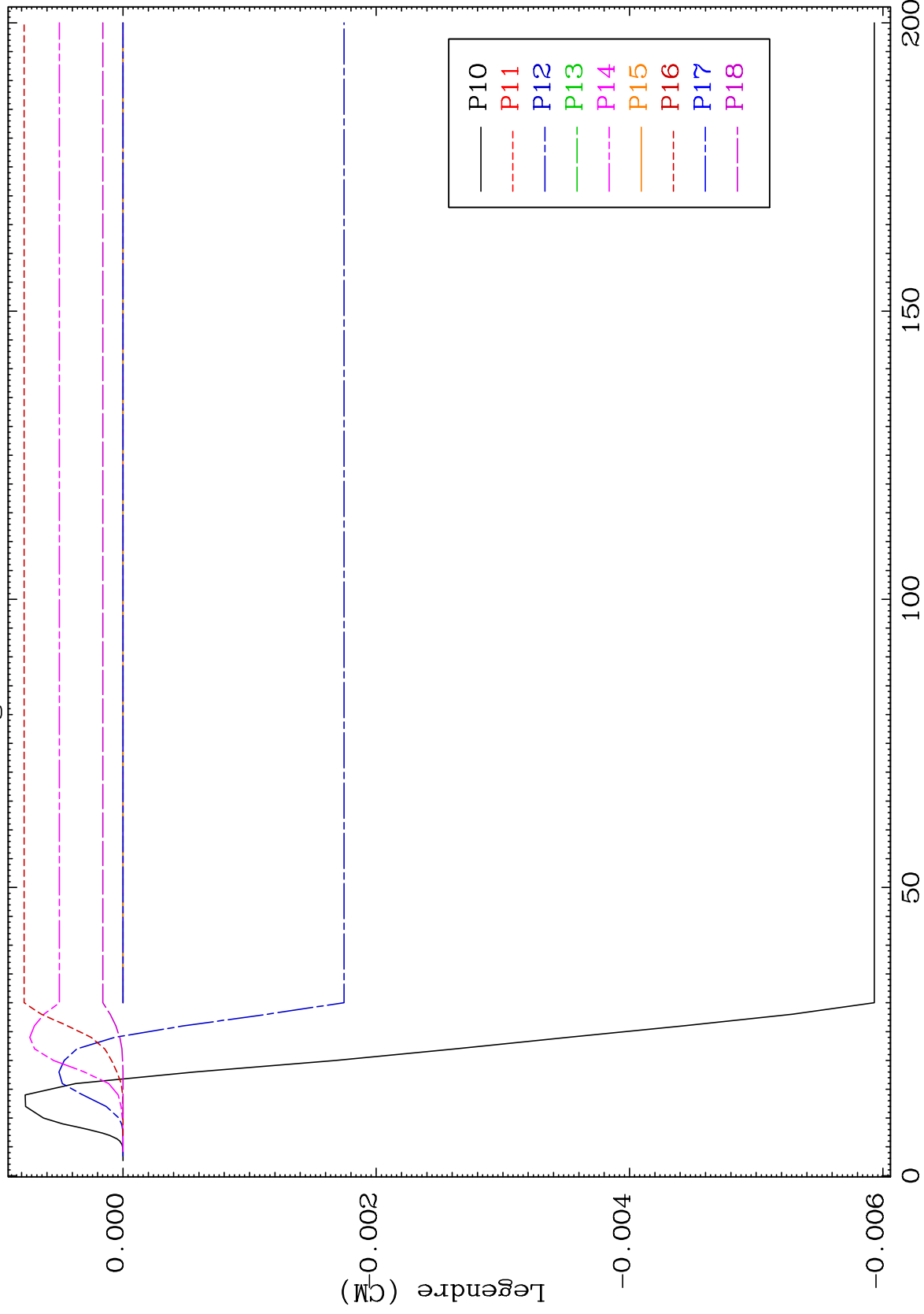
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



68

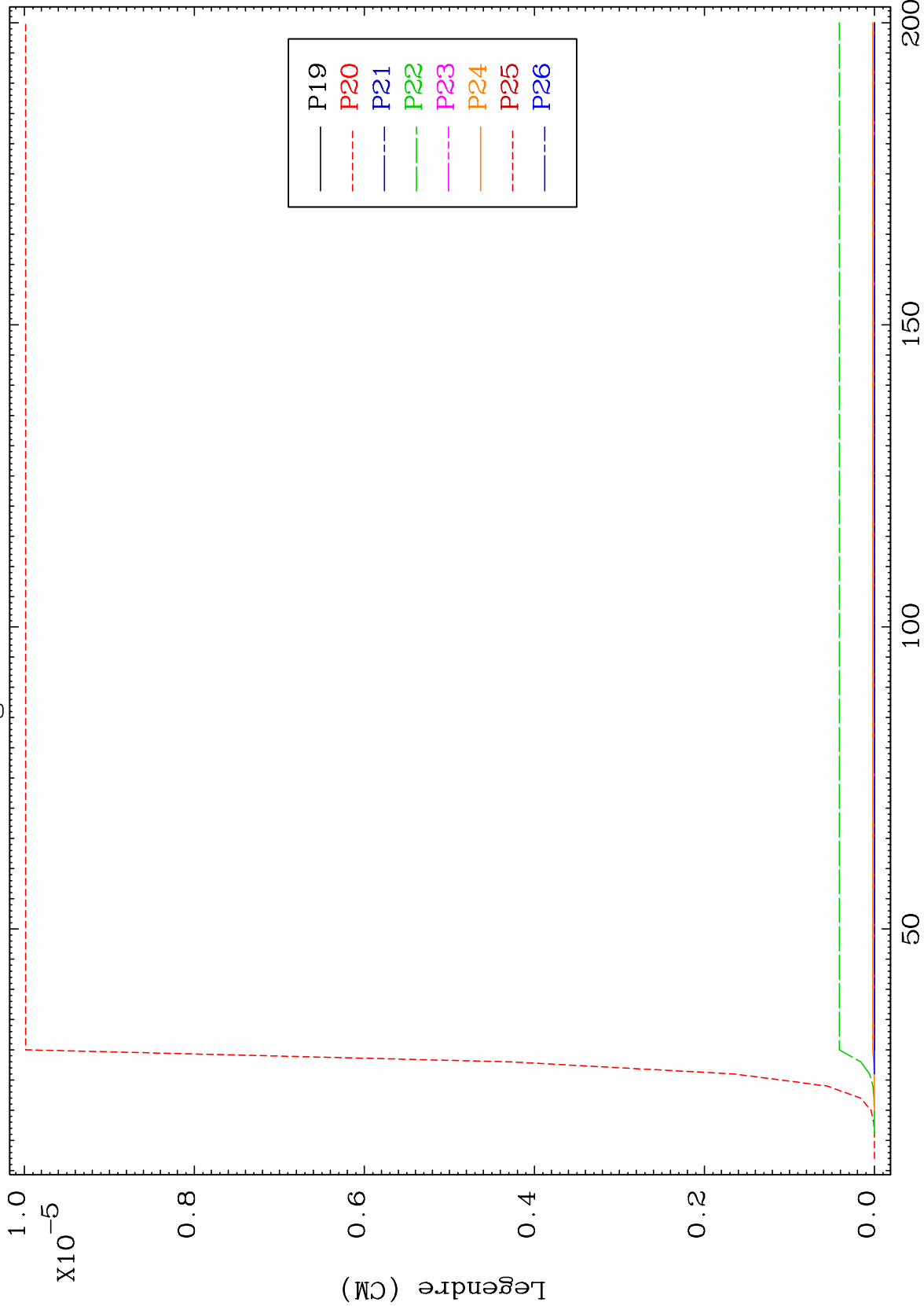
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



58-Ce-142

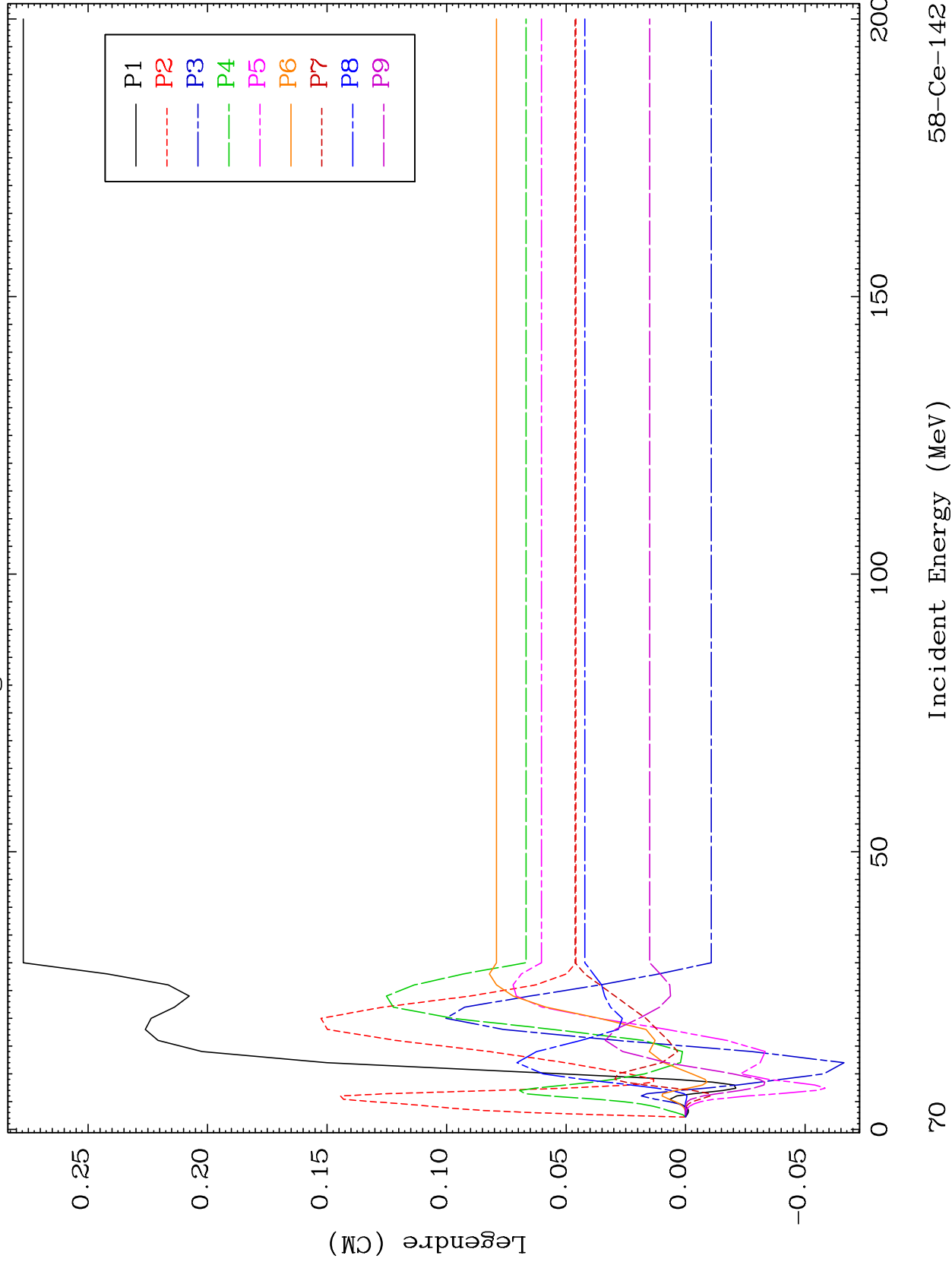
Incident Energy (MeV)

69

MAT 5843

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

58-Ce-142



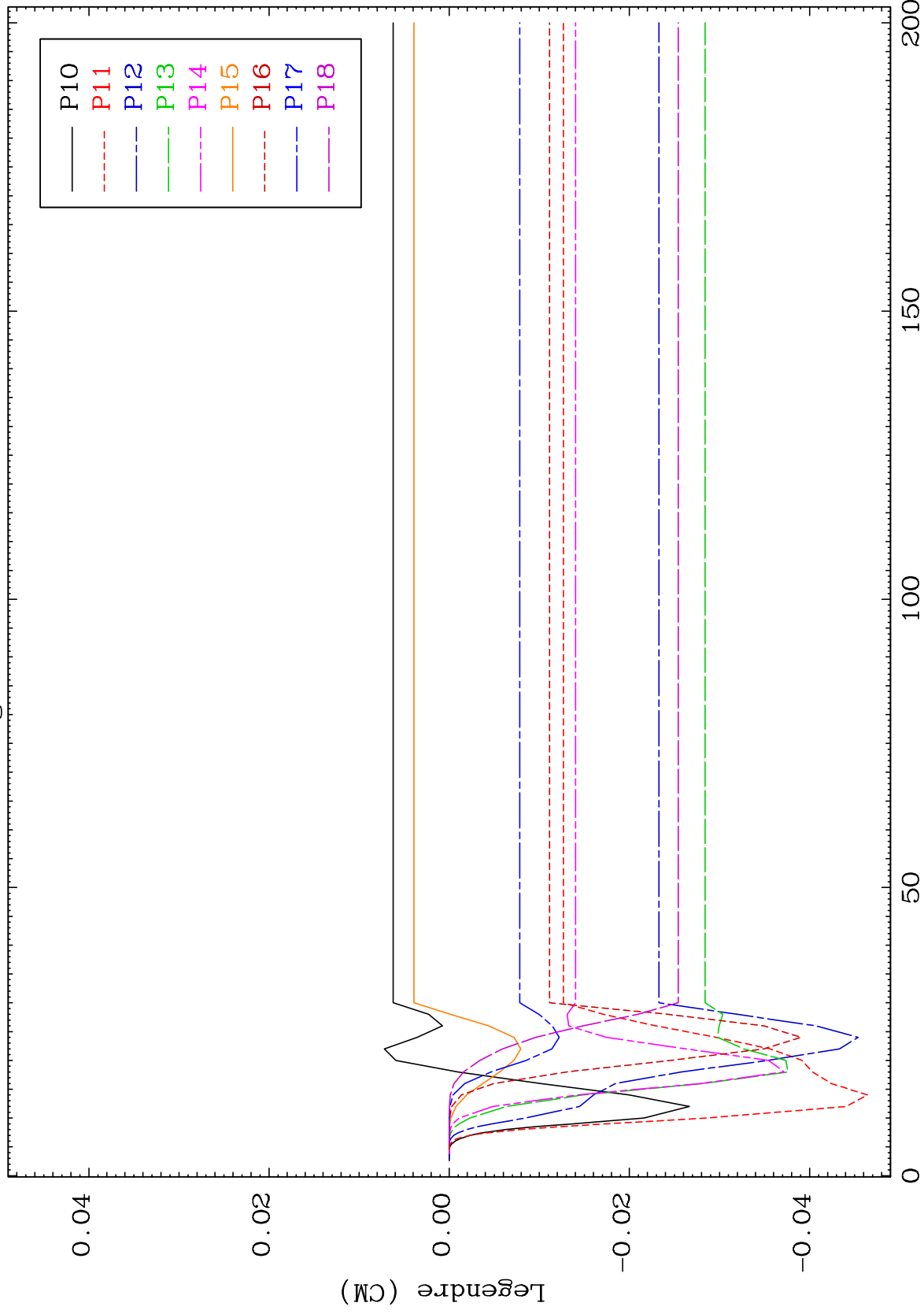
58-Ce-142

Incident Energy (MeV)

MAT 5843

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

58-Ce-142



71

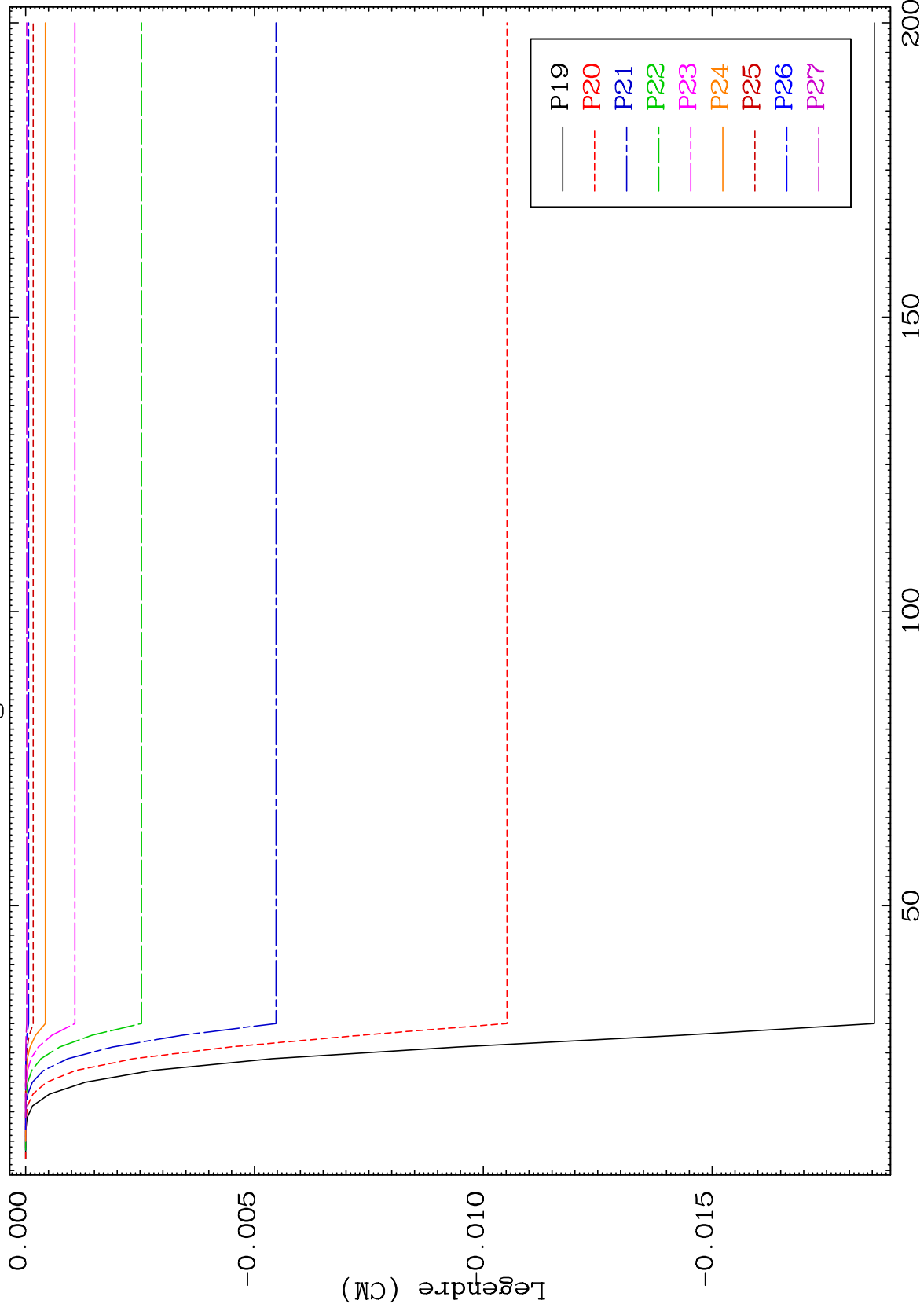
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

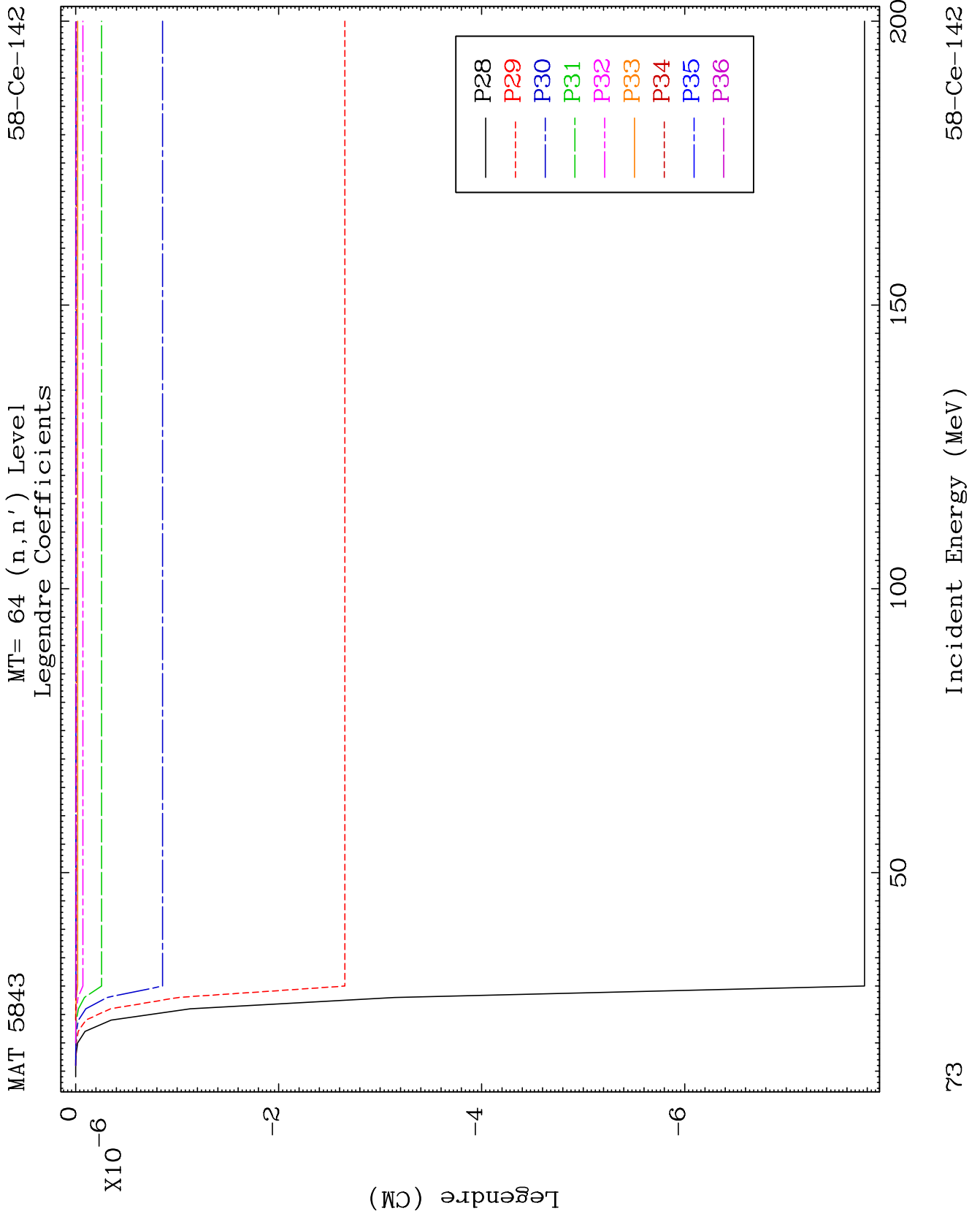
58-Ce-142



72

Incident Energy (MeV)

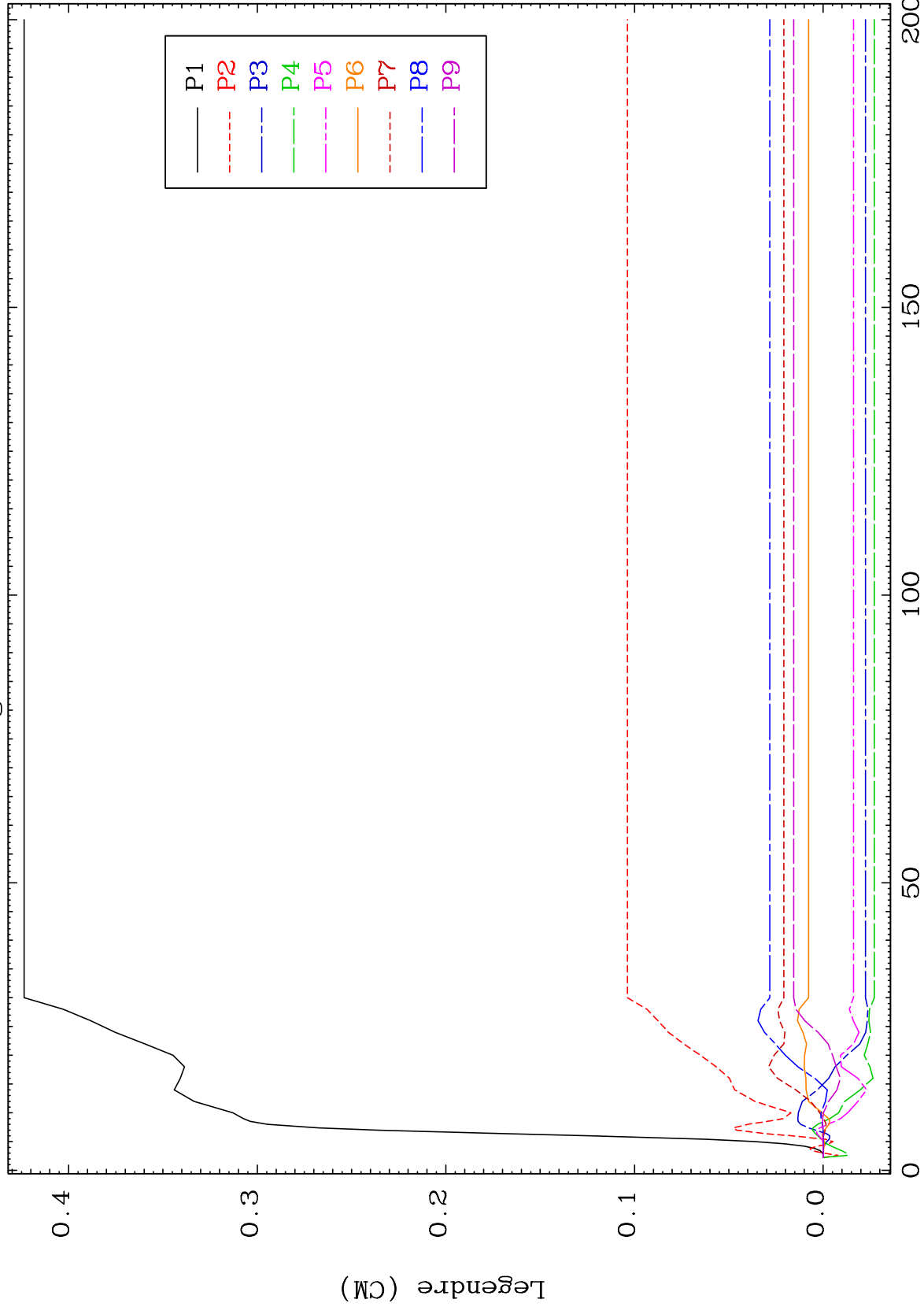
58-Ce-142



MAT 5843

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

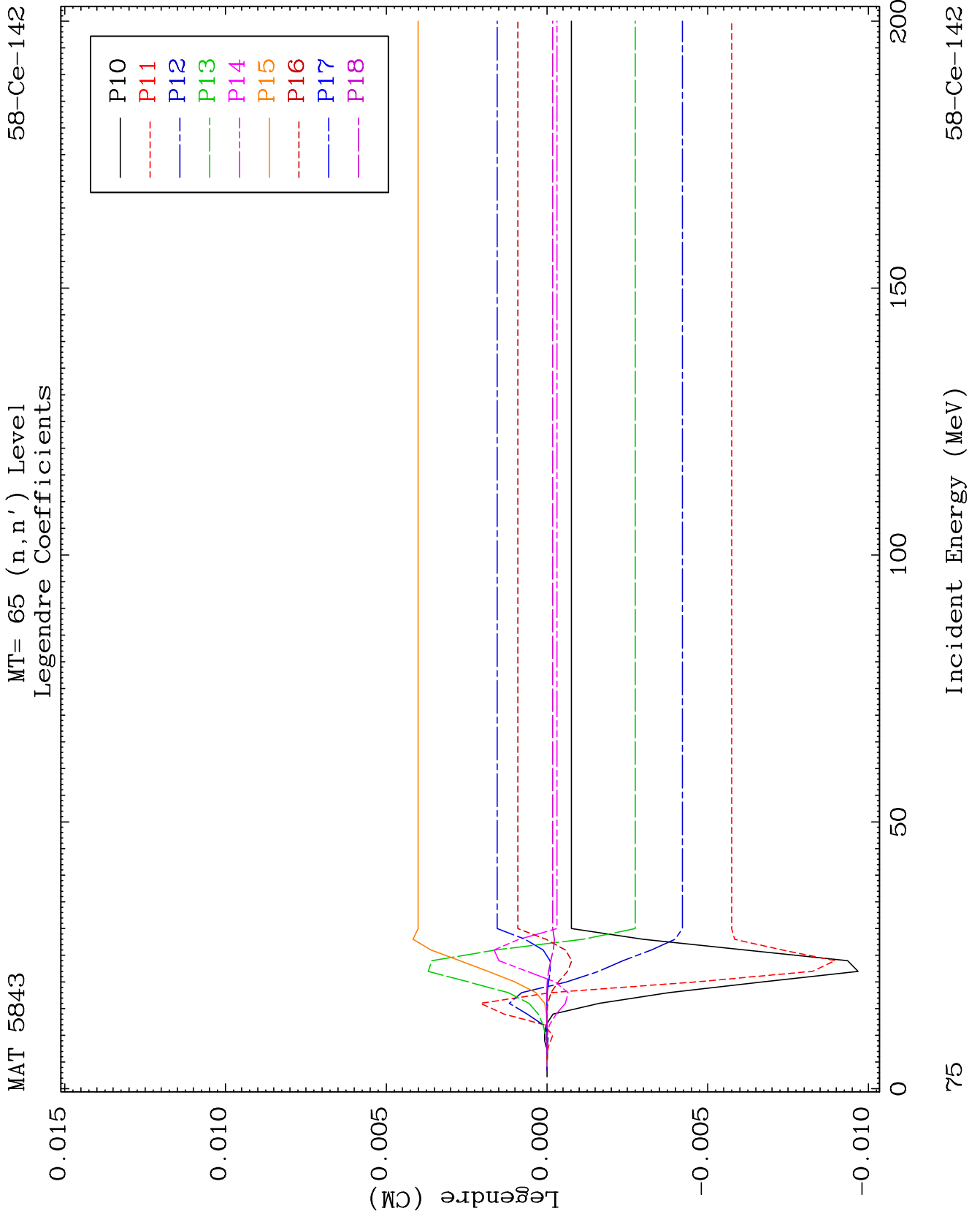
58-Ce-142



74

Incident Energy (MeV)

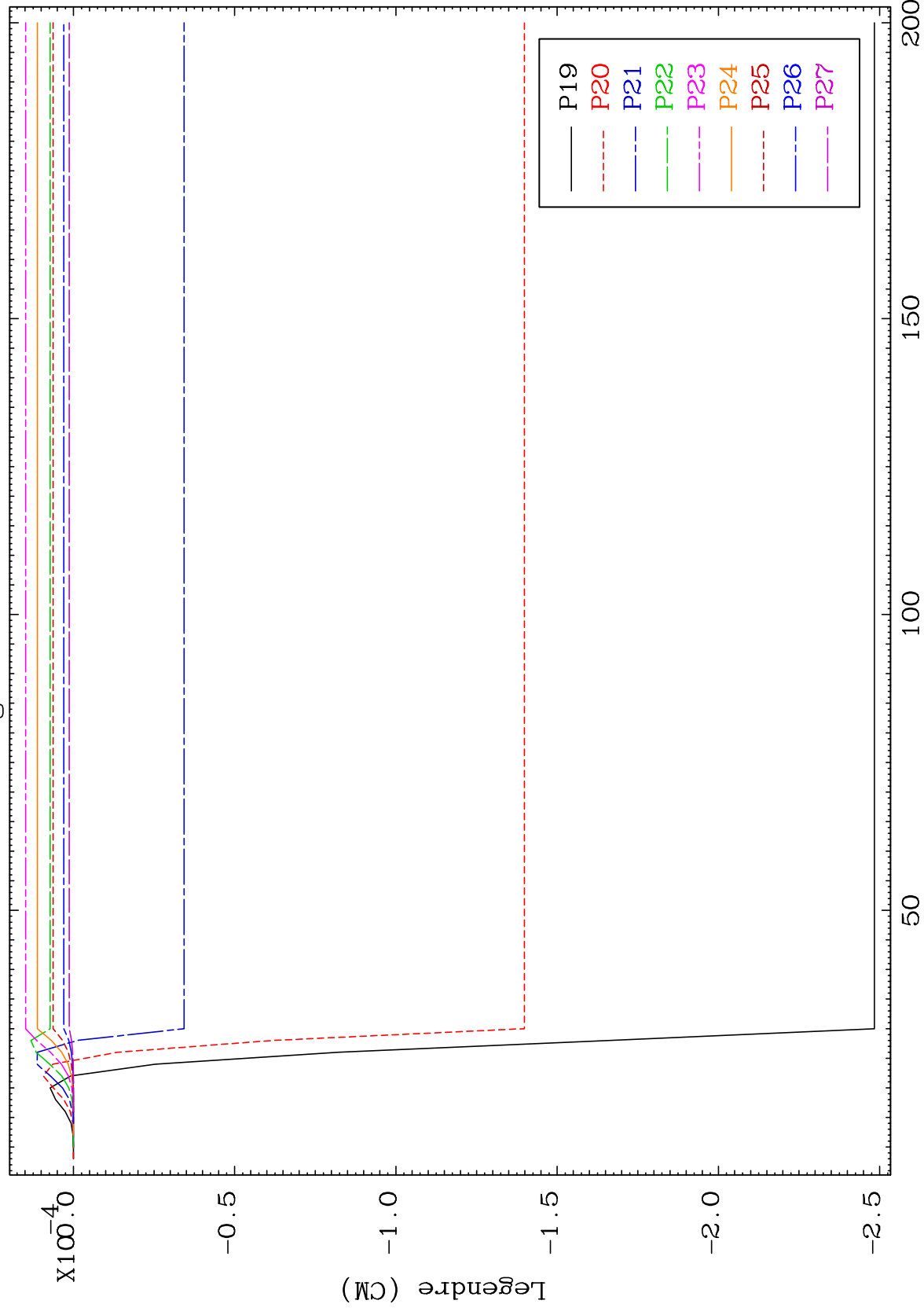
58-Ce-142



MAT 5843

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

58-Ce-142



76

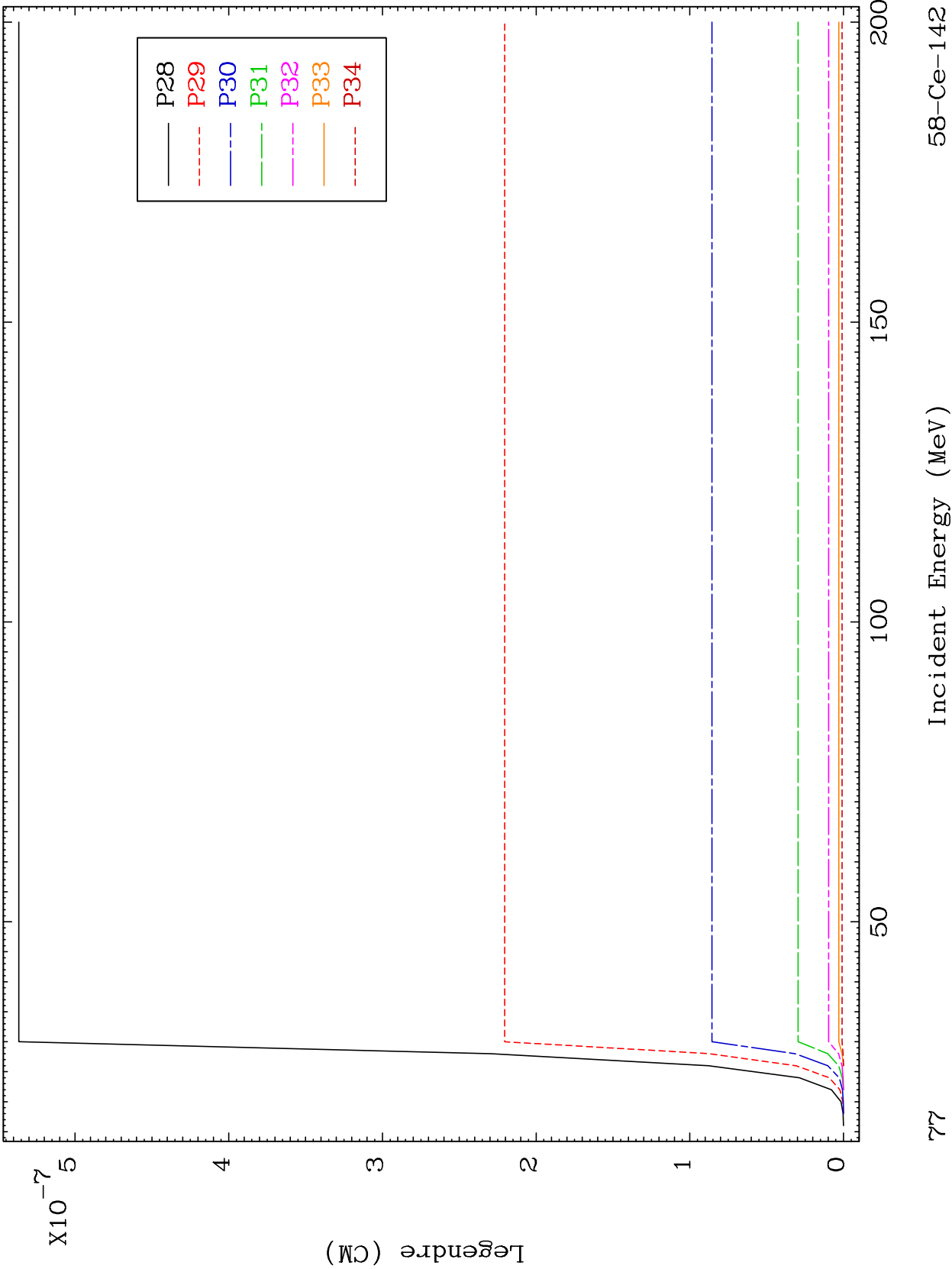
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142

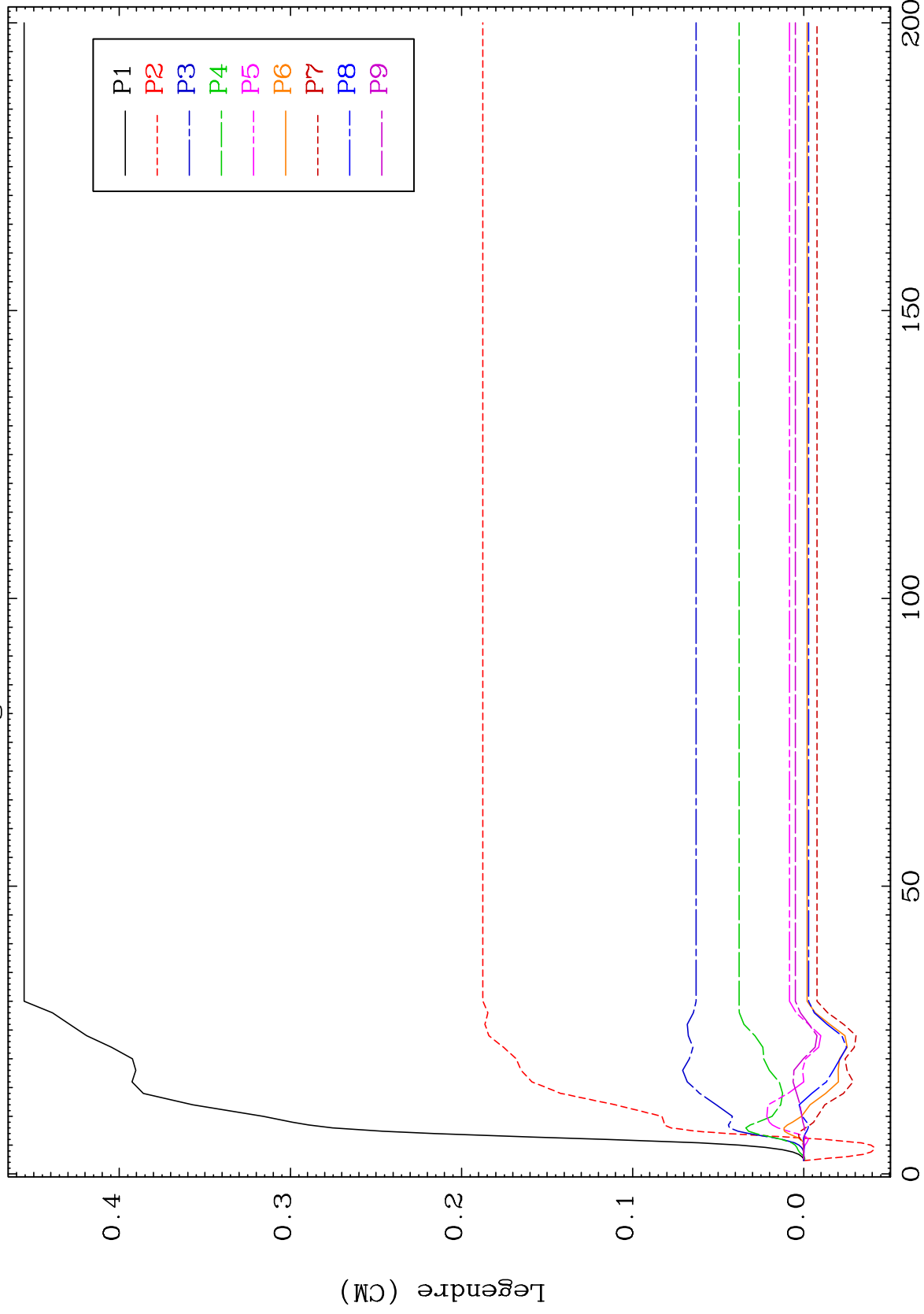


77

MAT 5843

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

58-Ce-142



78

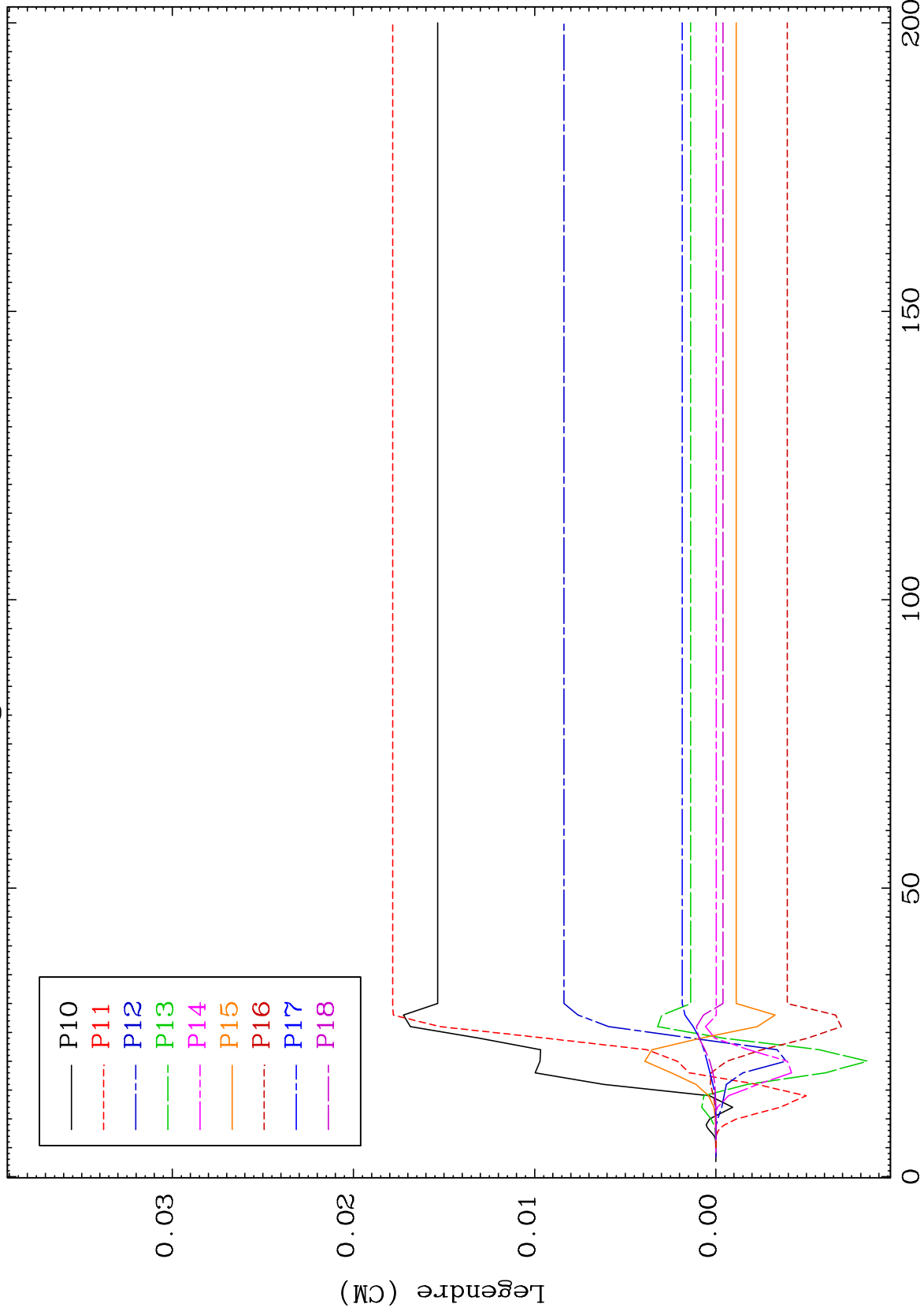
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



79

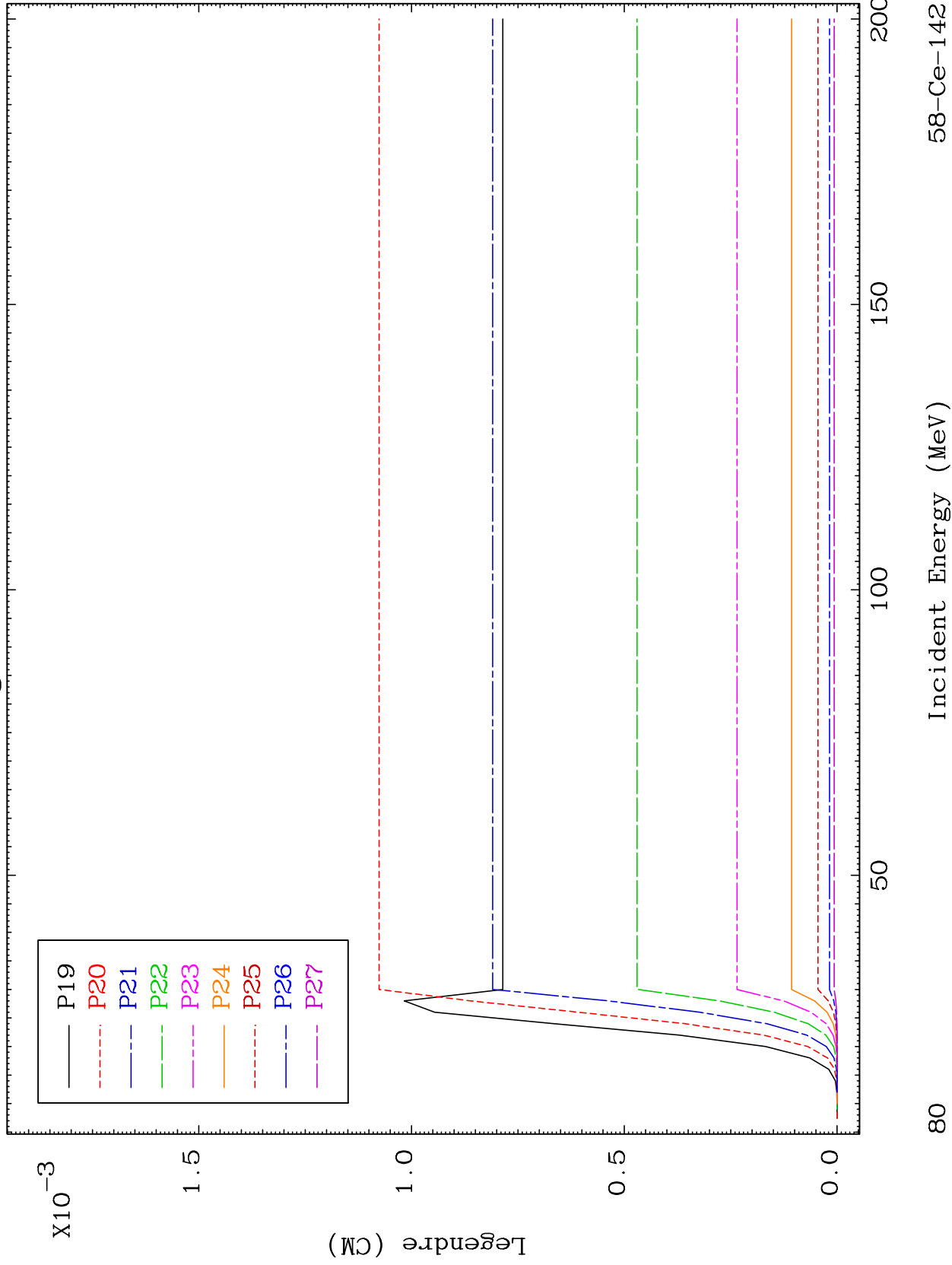
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

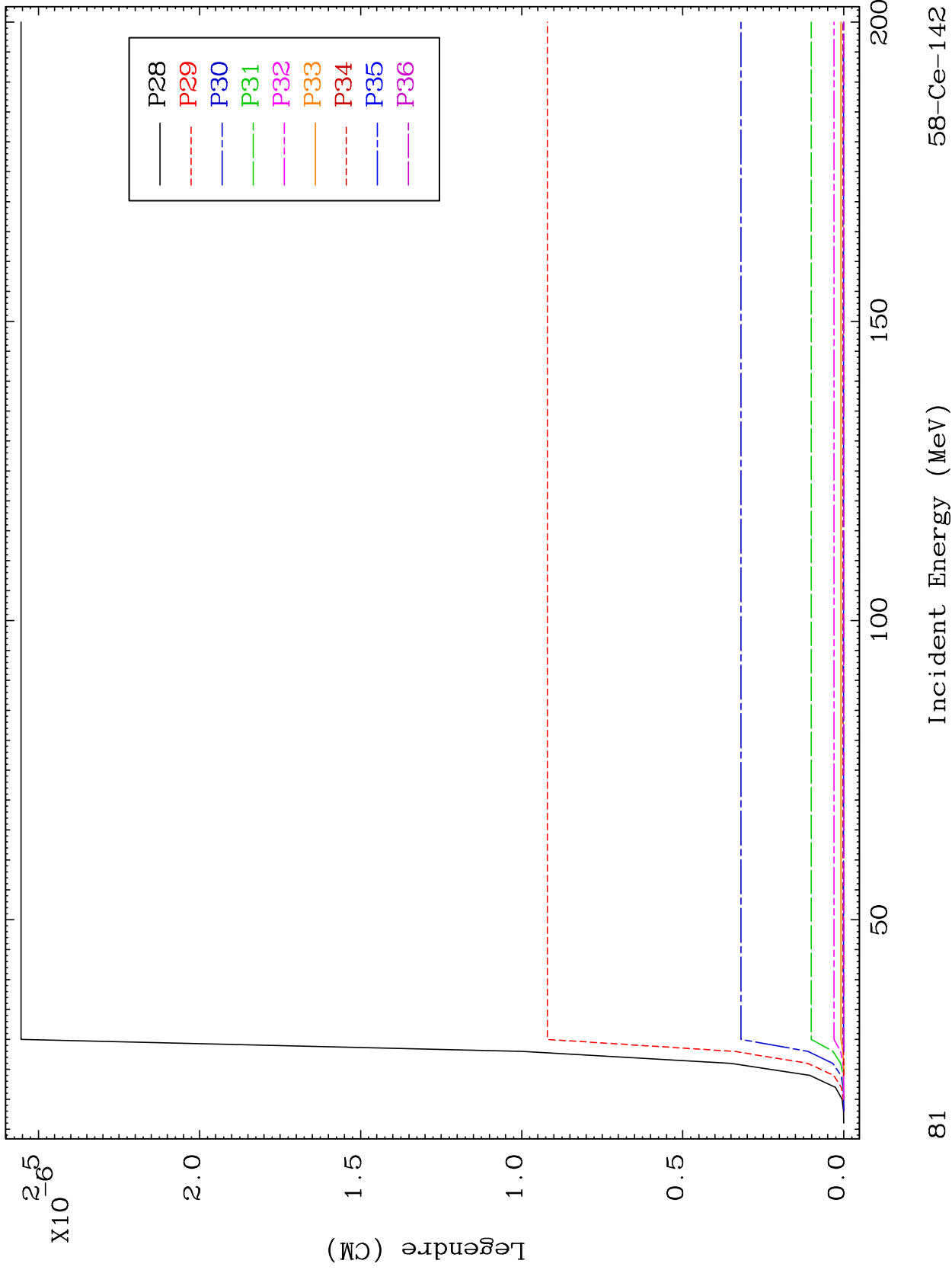
58-Ce-142



MAT 5843

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

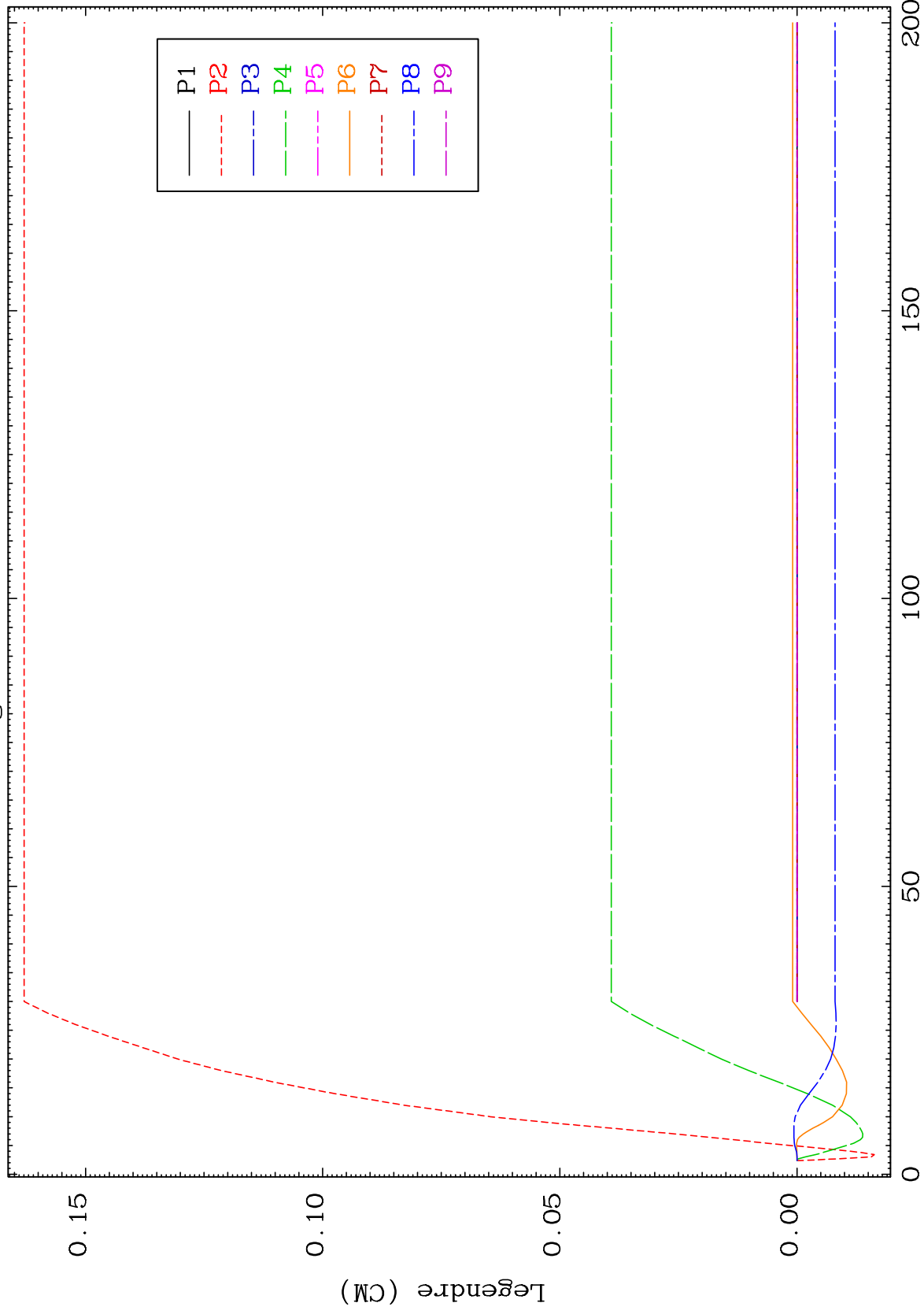
58-Ce-142



MAT 5843

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

58-Ce-142



82

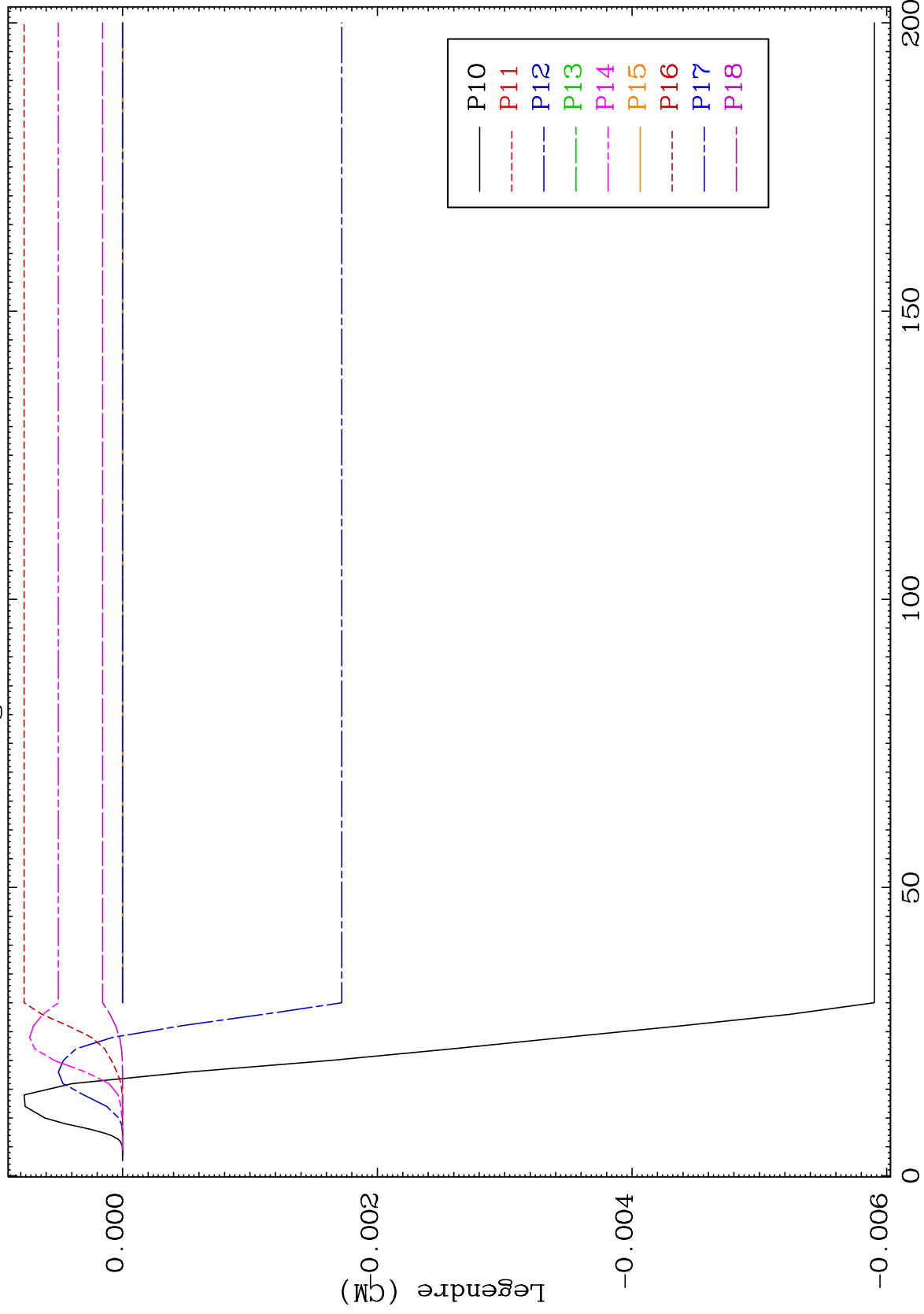
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



83

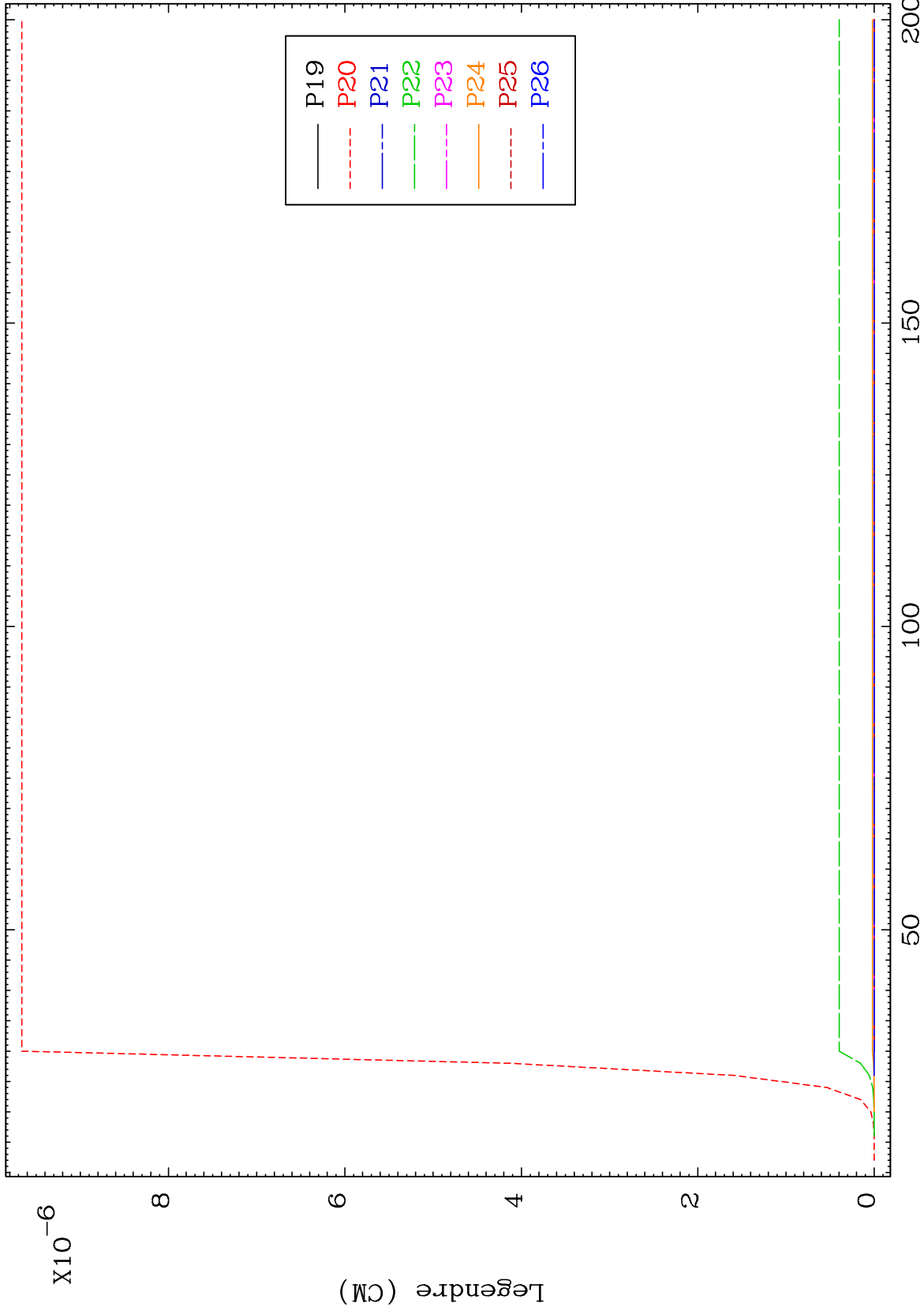
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



84

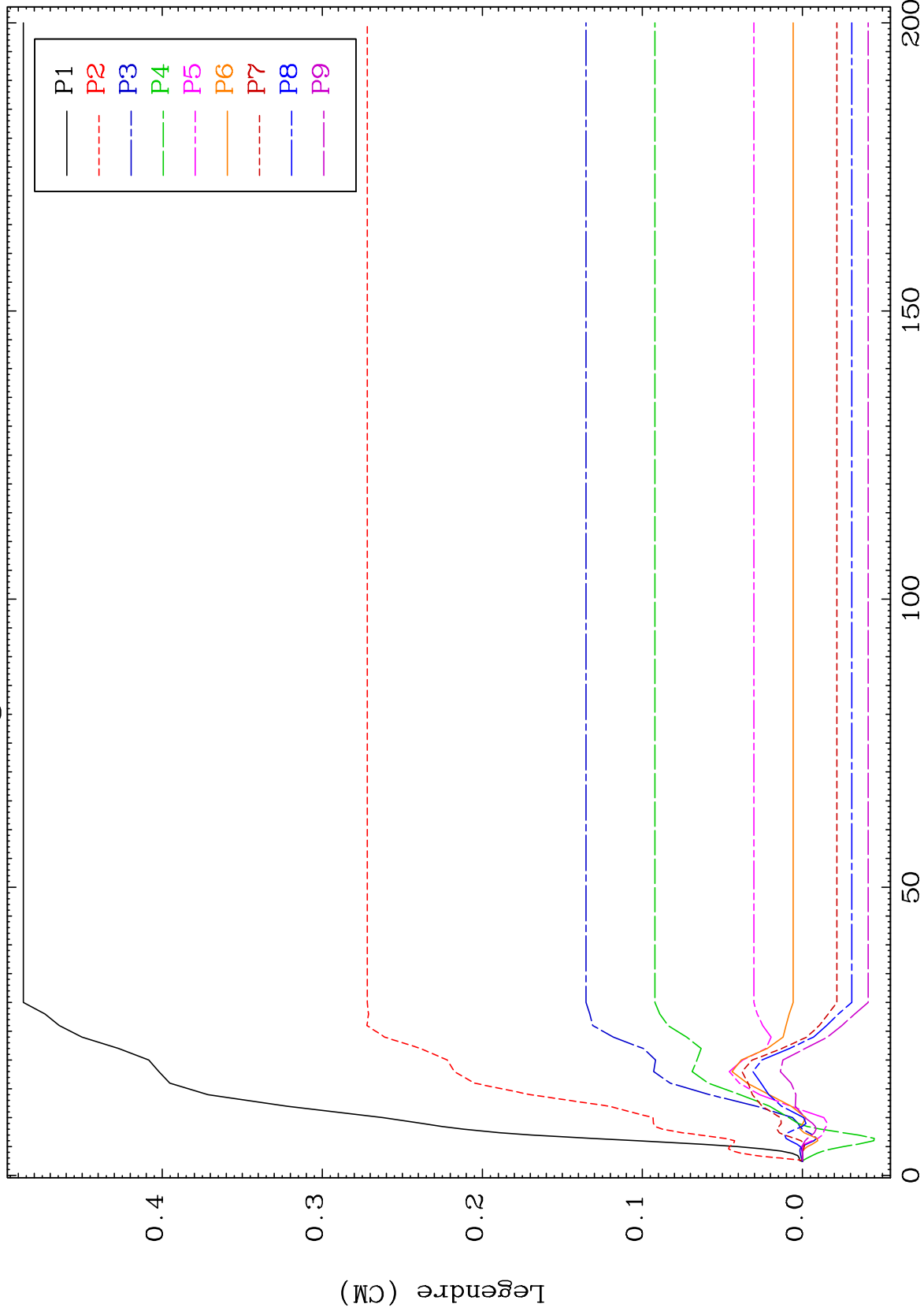
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



58-Ce-142

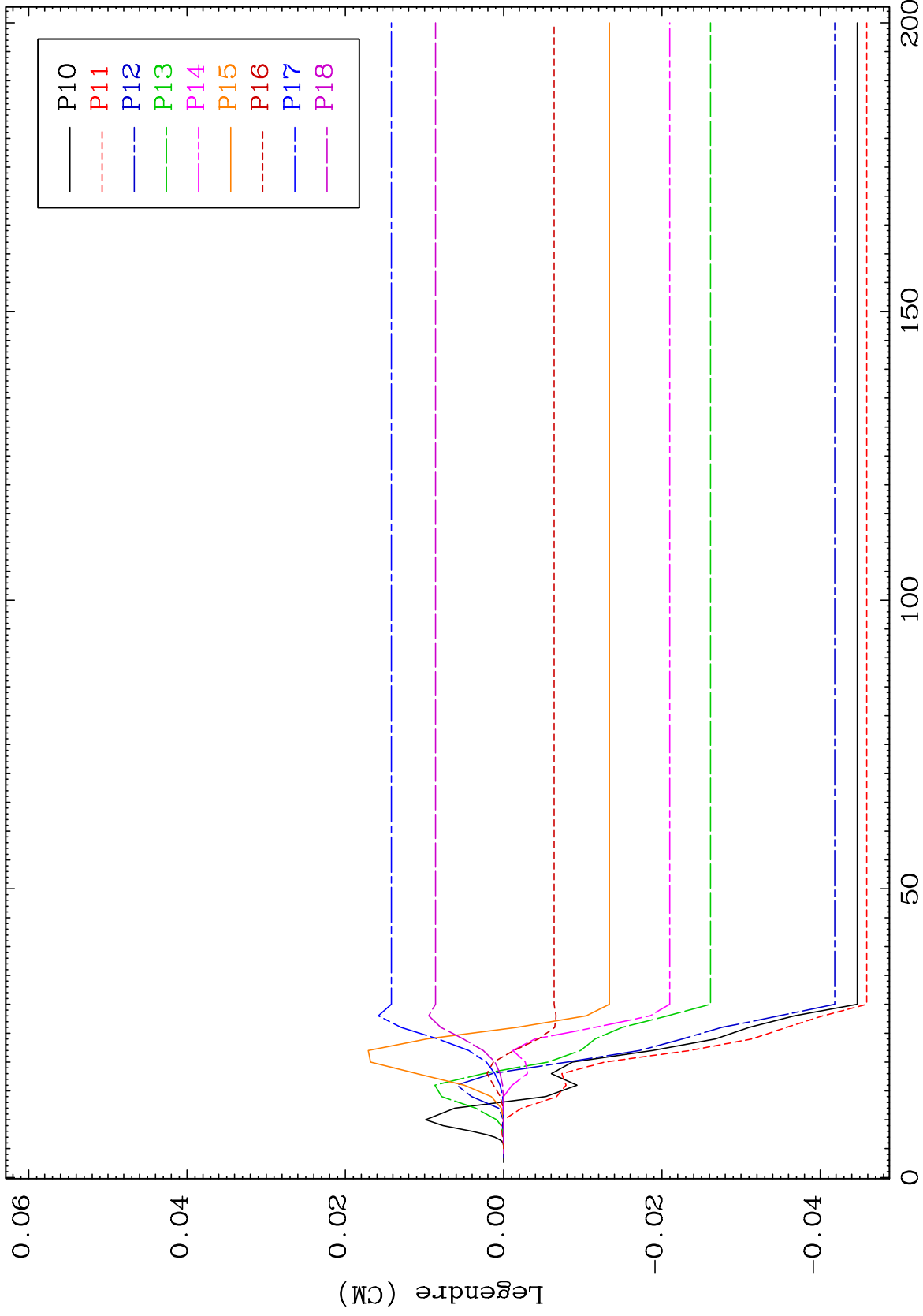
Incident Energy (MeV)

85

MAT 5843

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

58-Ce-142



86

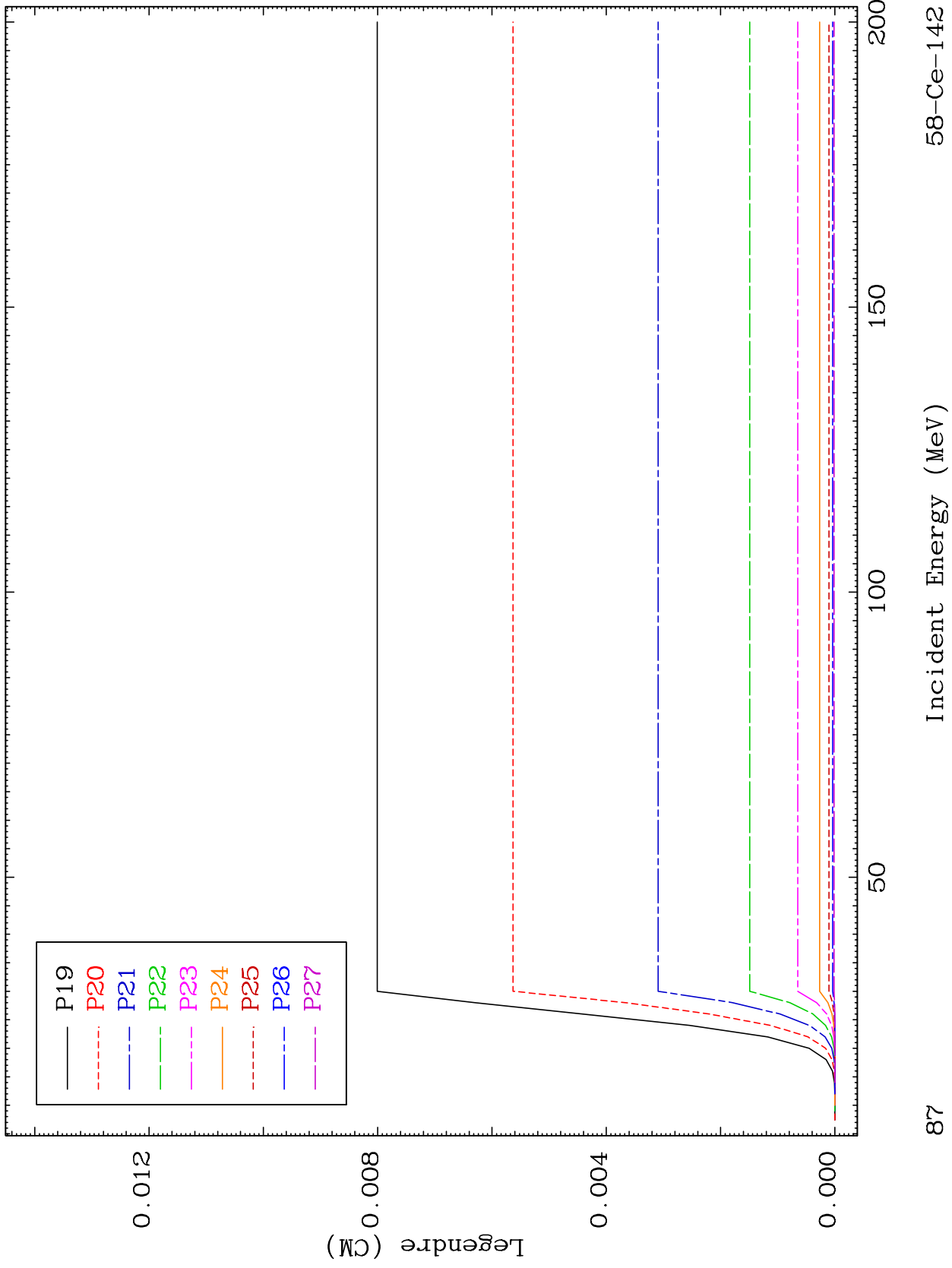
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



87

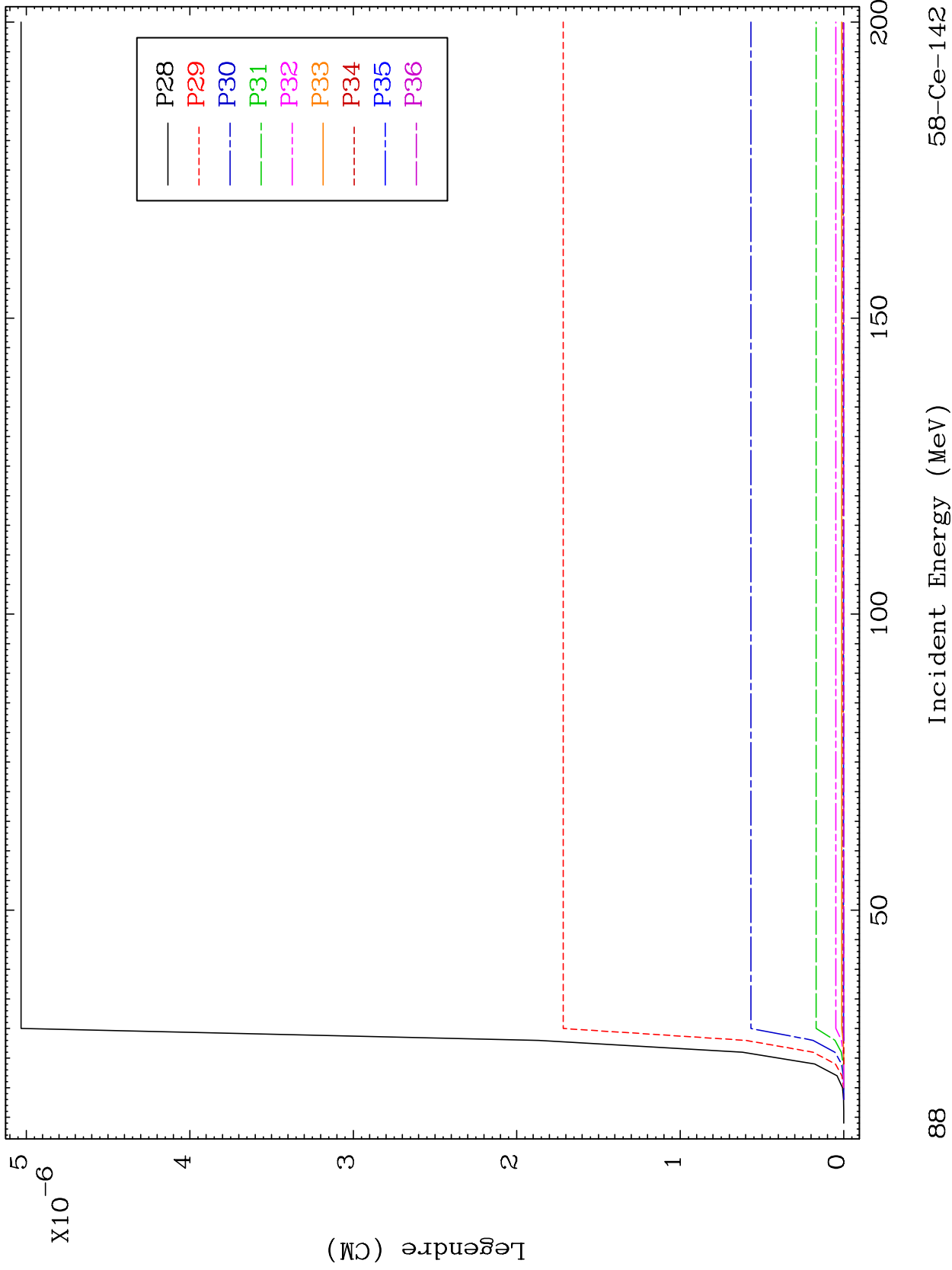
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

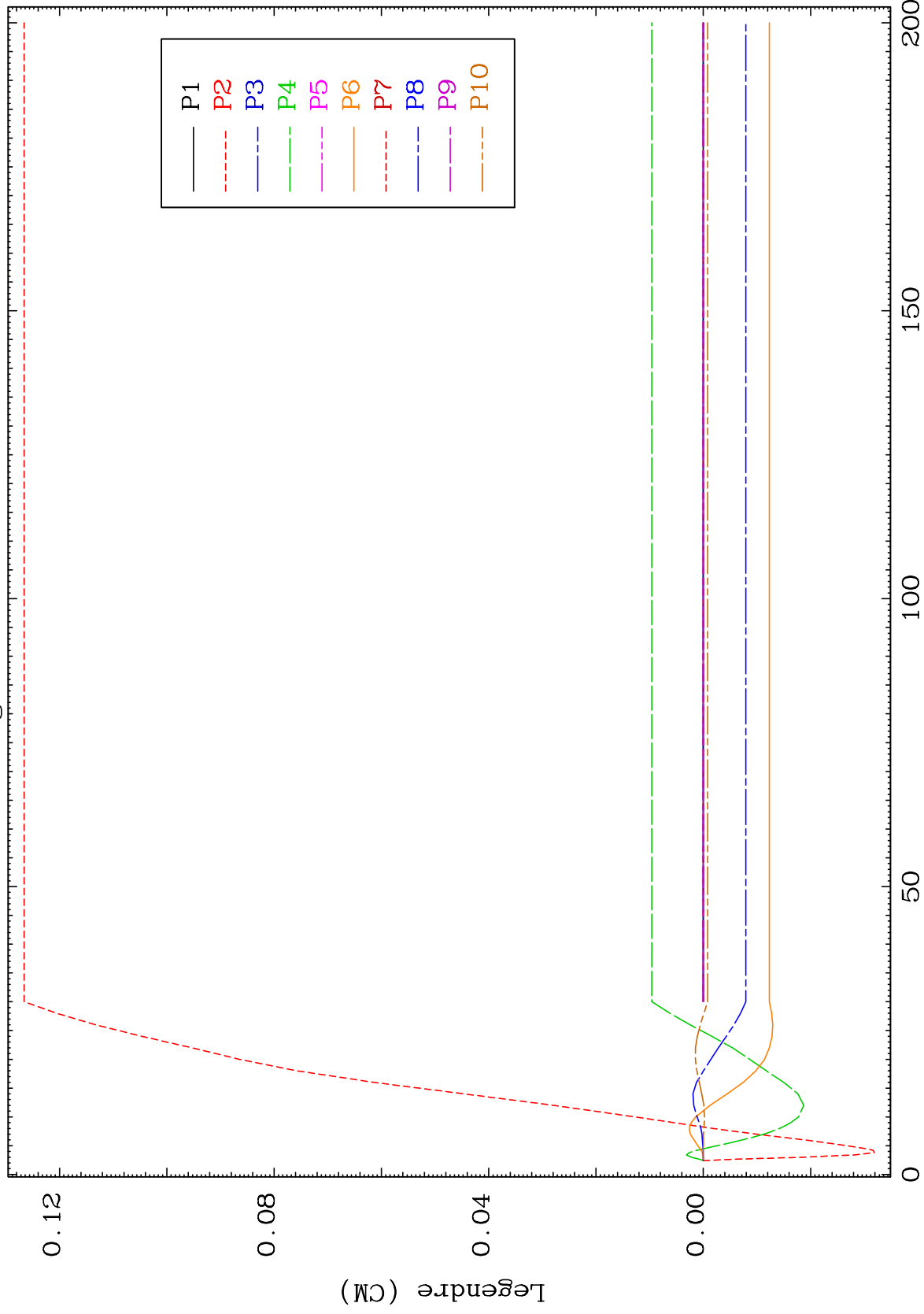
58-Ce-142



MAT 5843

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

58-Ce-142



89

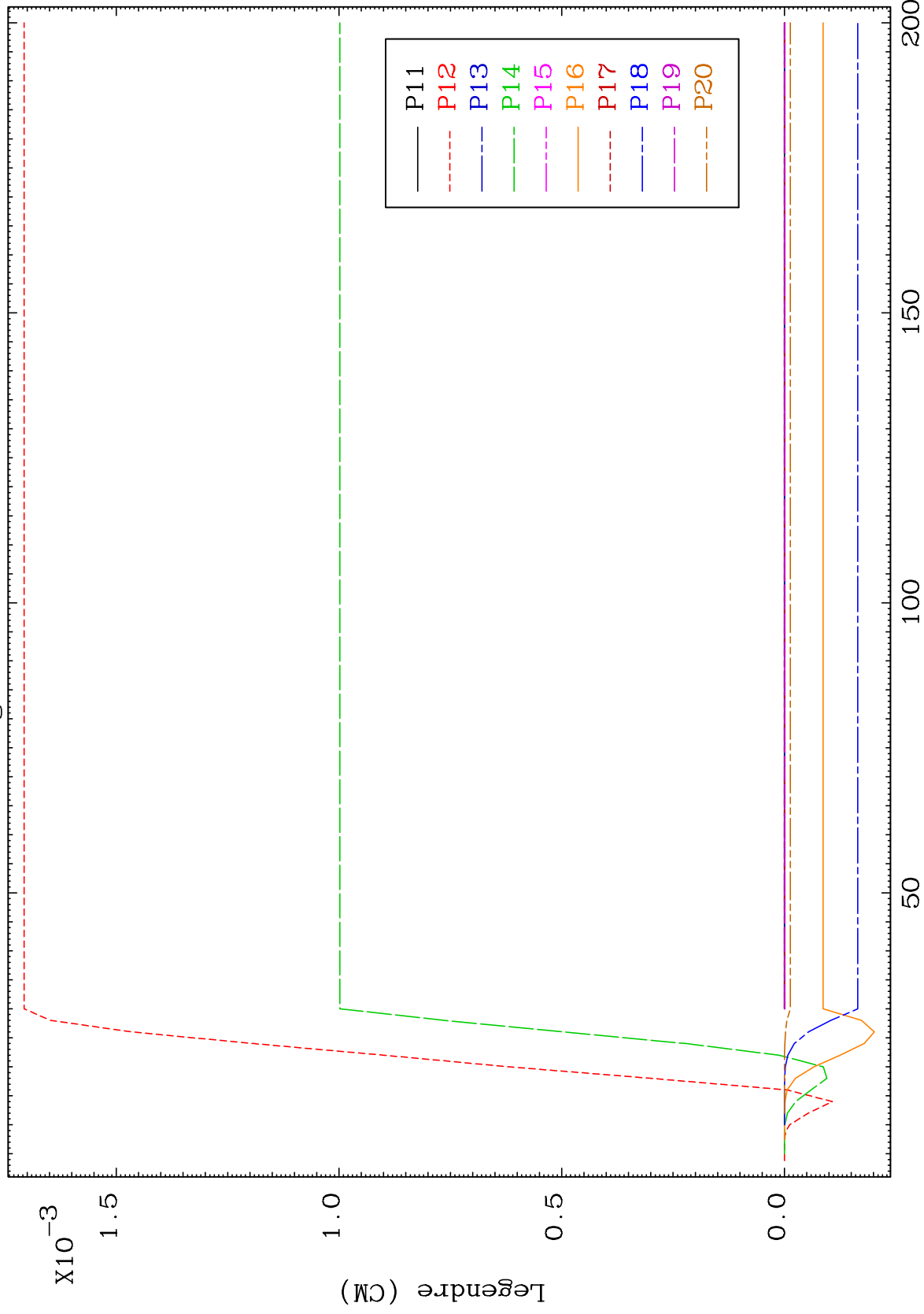
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



90

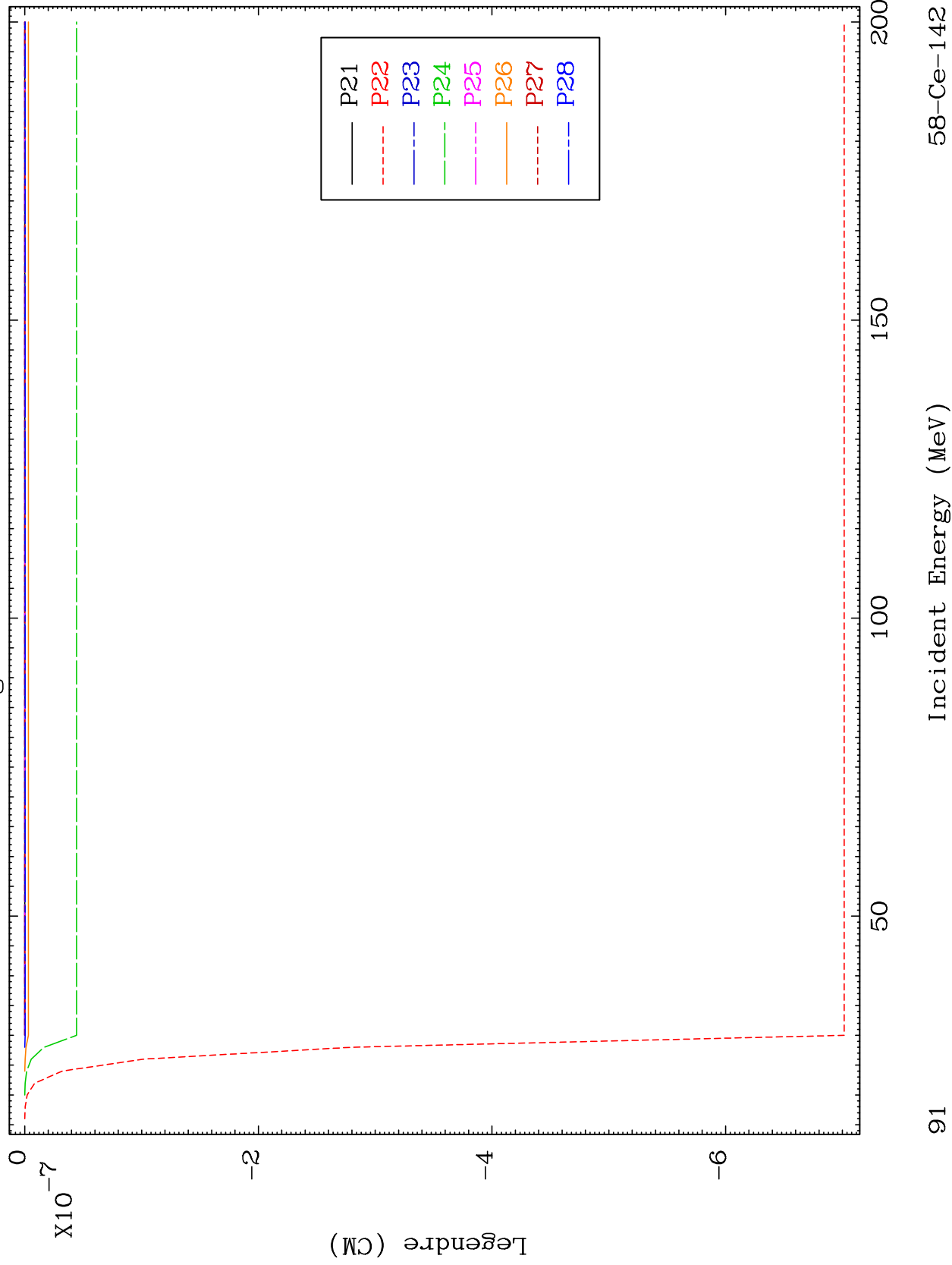
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

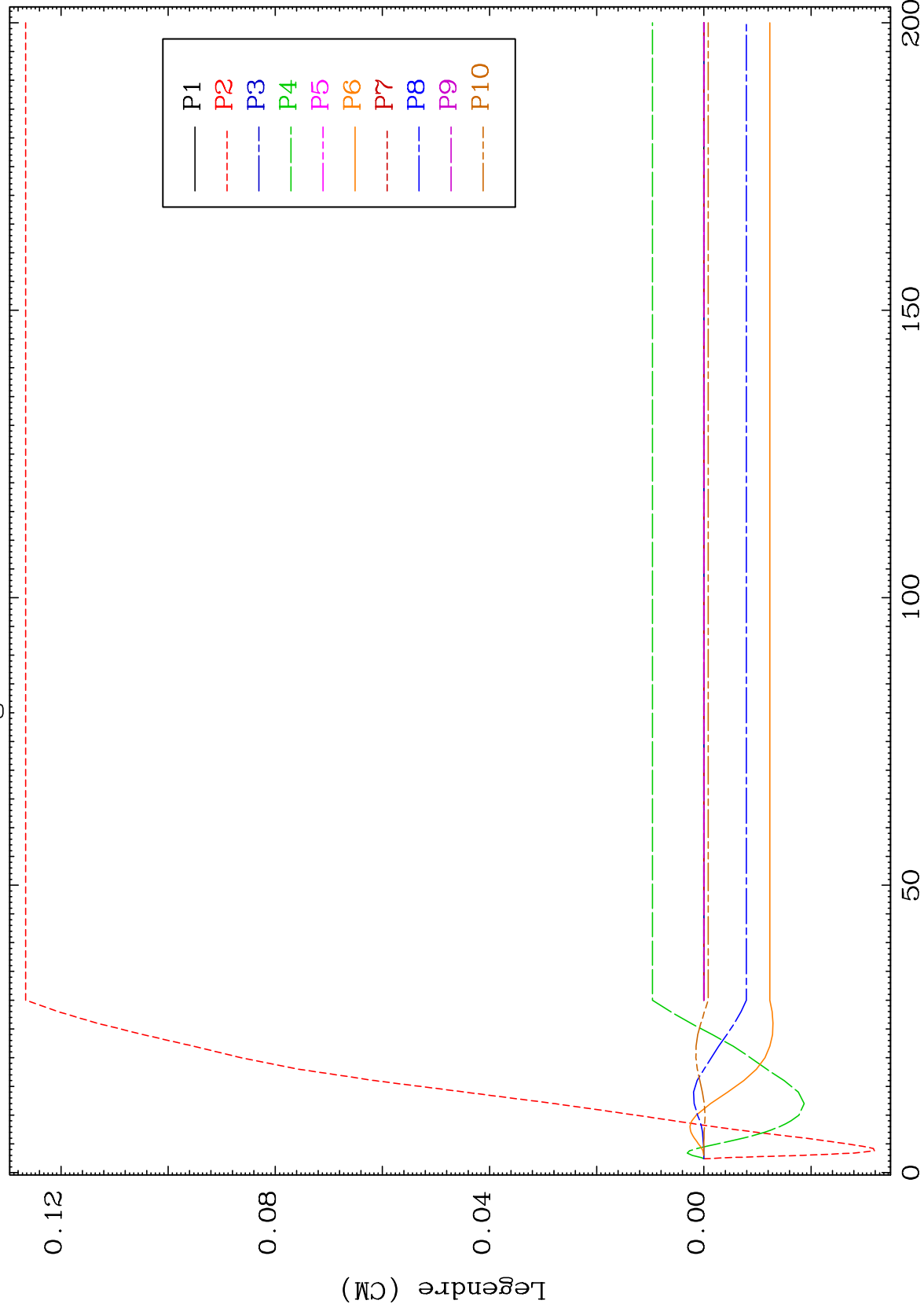
58-Ce-142



MAT 5843

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

58-Ce-142



58-Ce-142

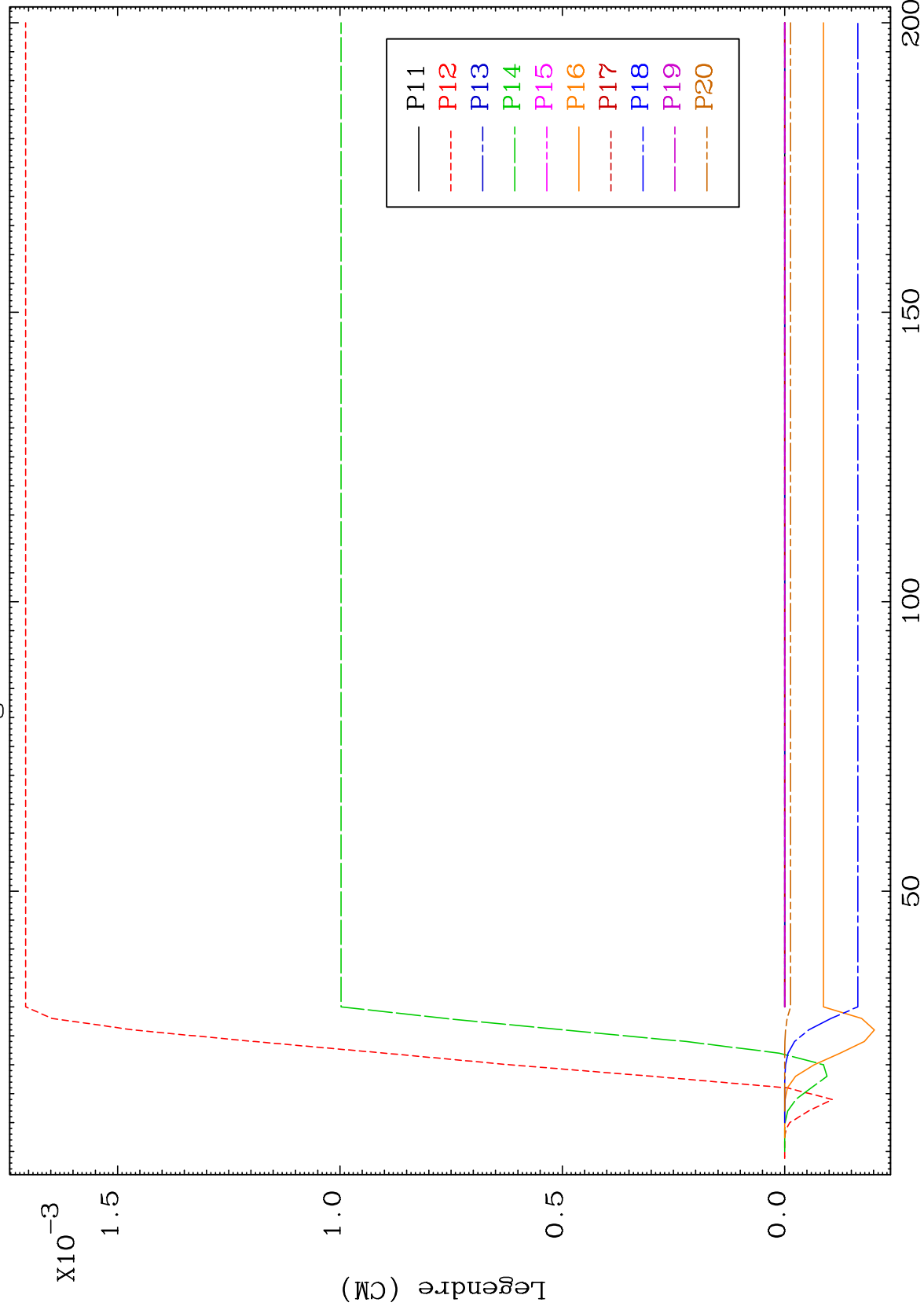
Incident Energy (MeV)

92

MAT 5843

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

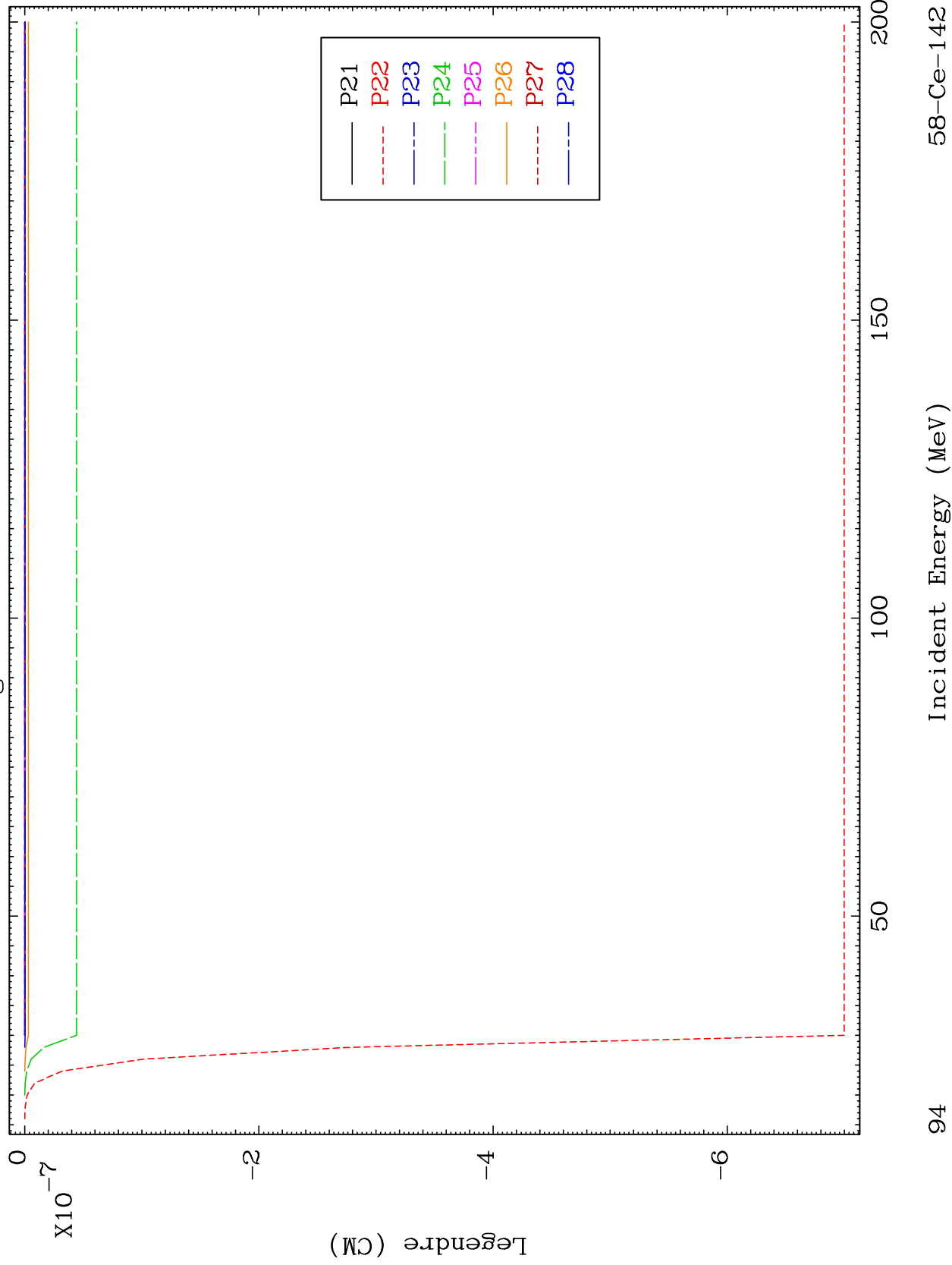
58-Ce-142



MAT 5843

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

58-Ce-142



94

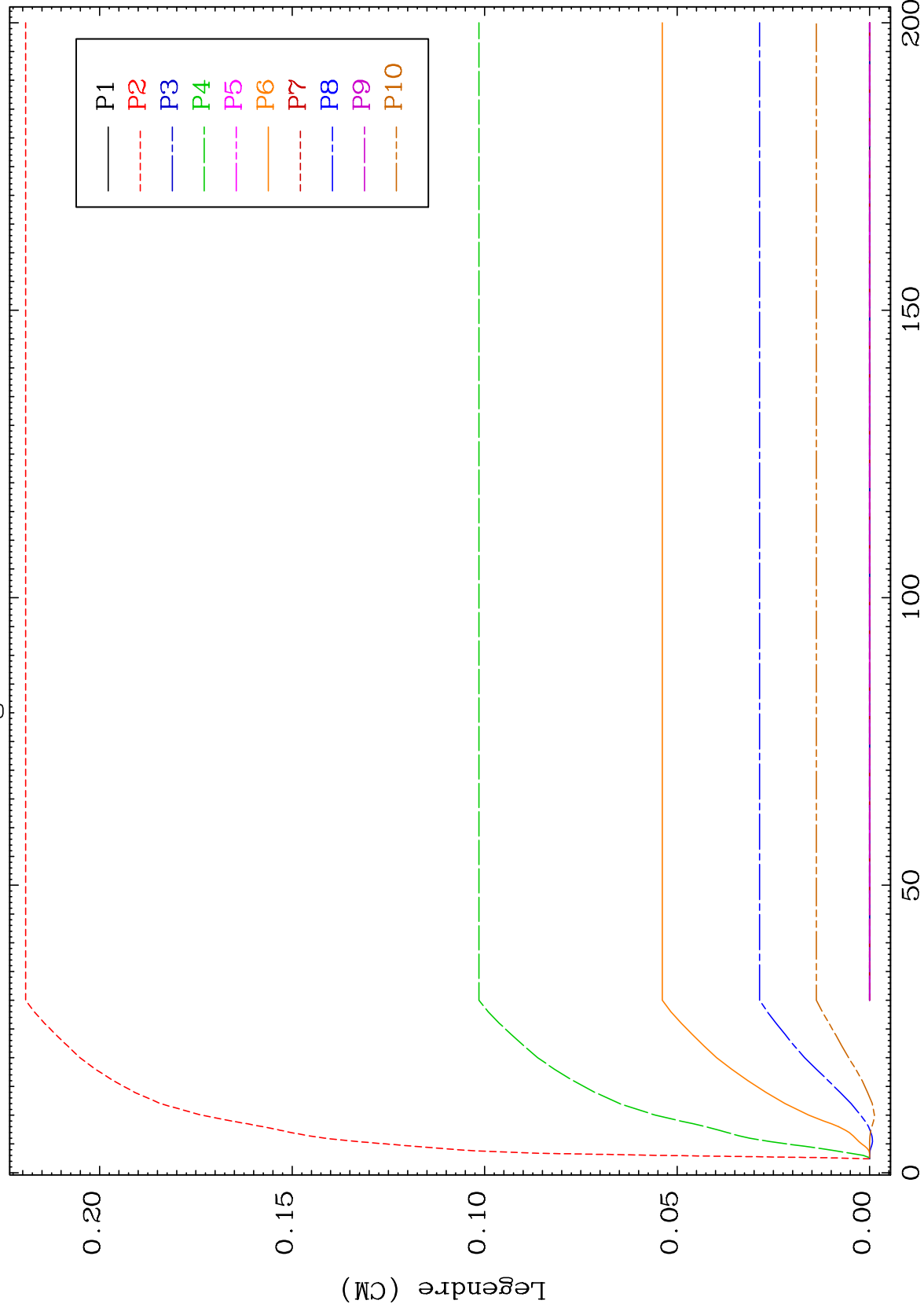
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

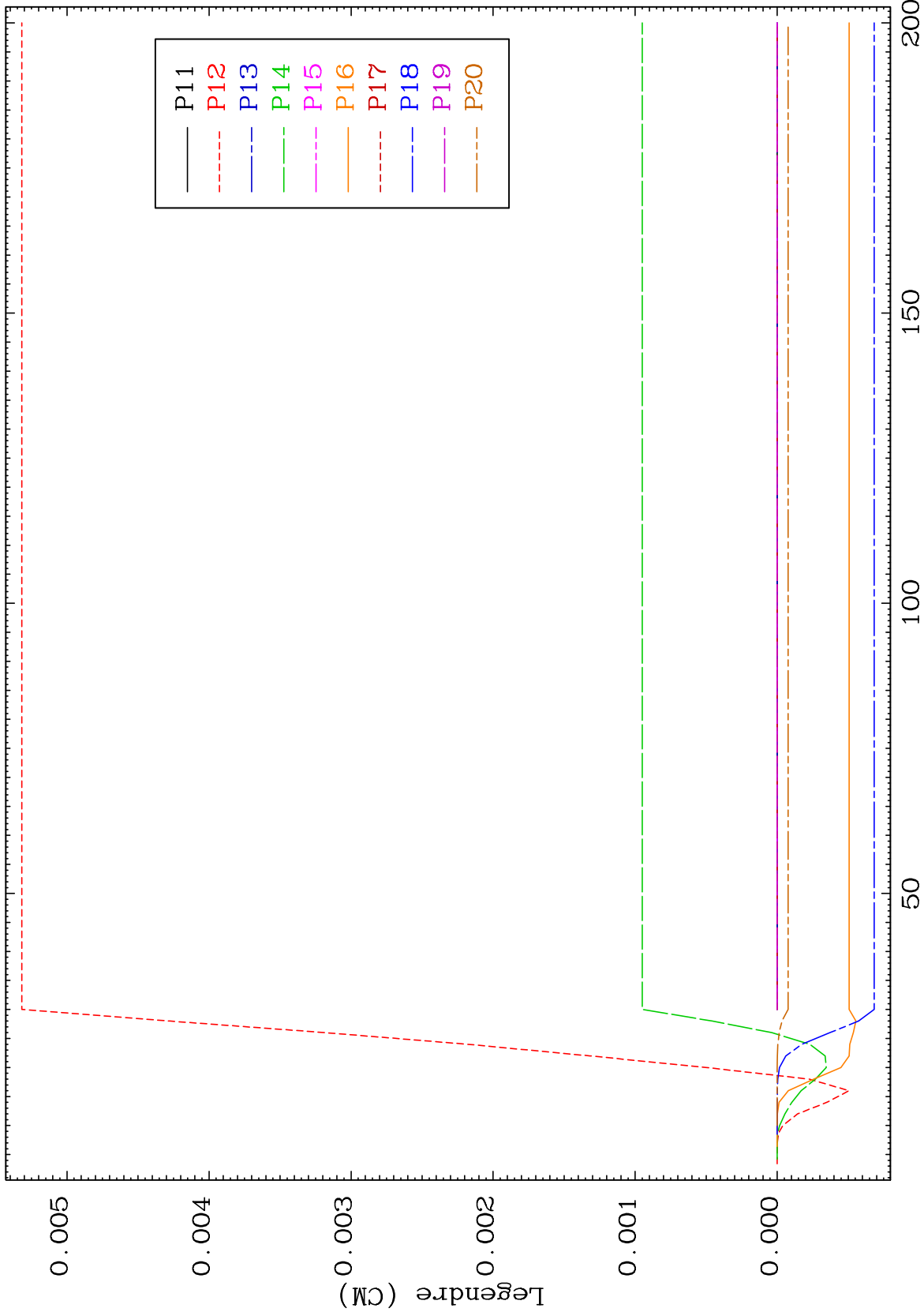
58-Ce-142



58-Ce-142

Incident Energy (MeV)

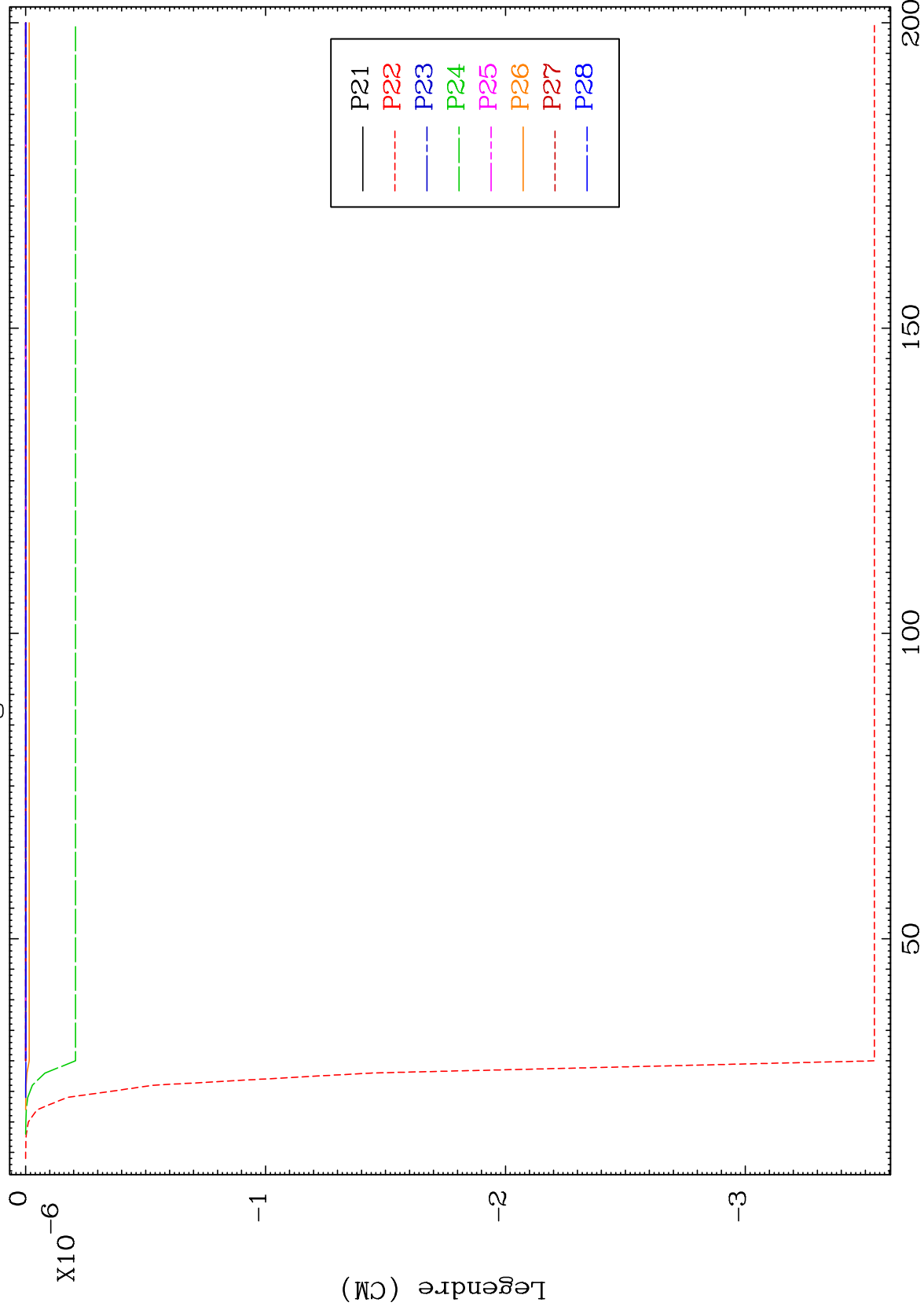
95



MAT 5843

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

58-Ce-142



58-Ce-142

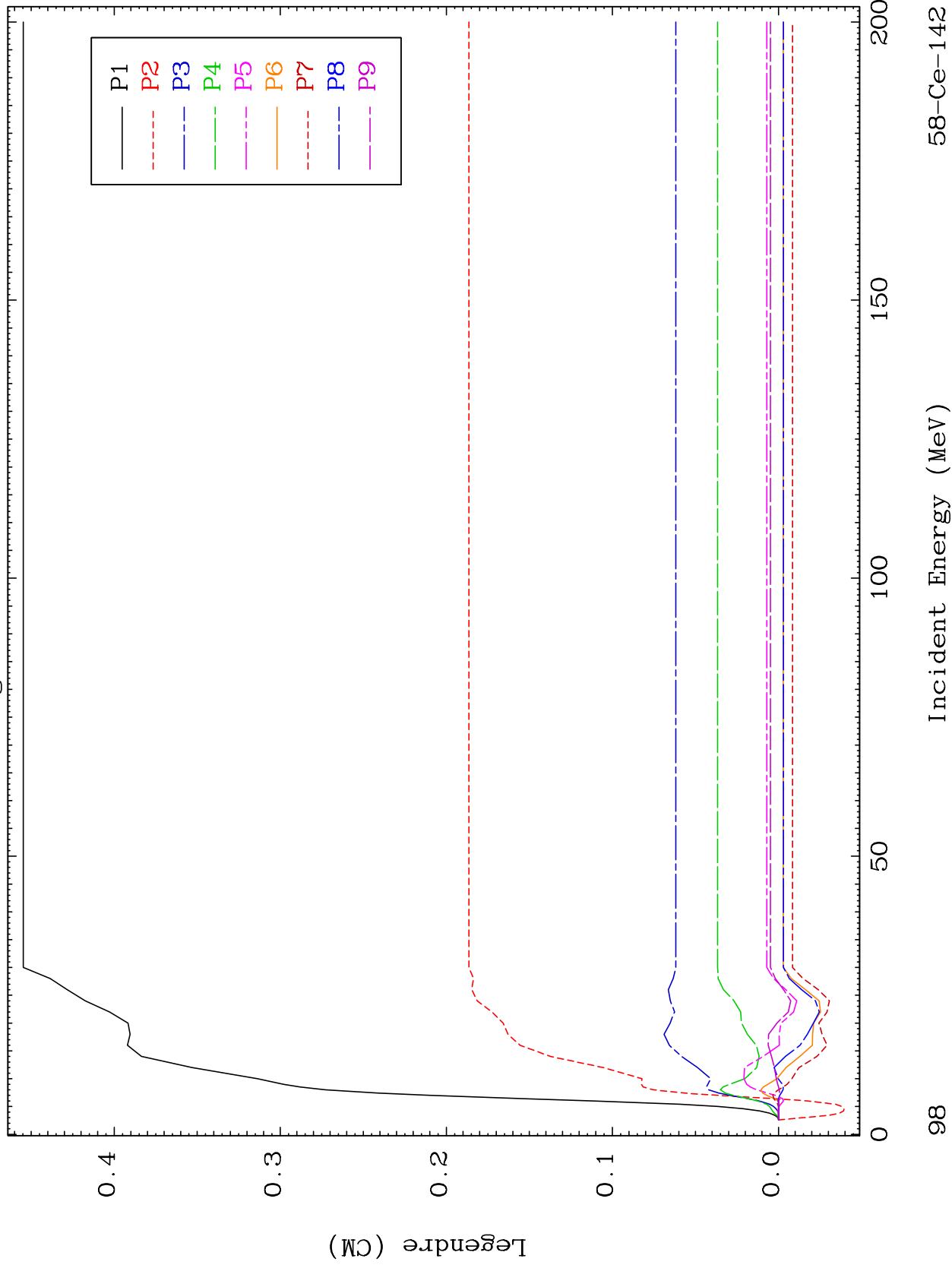
Incident Energy (MeV)

97

MAT 5843

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

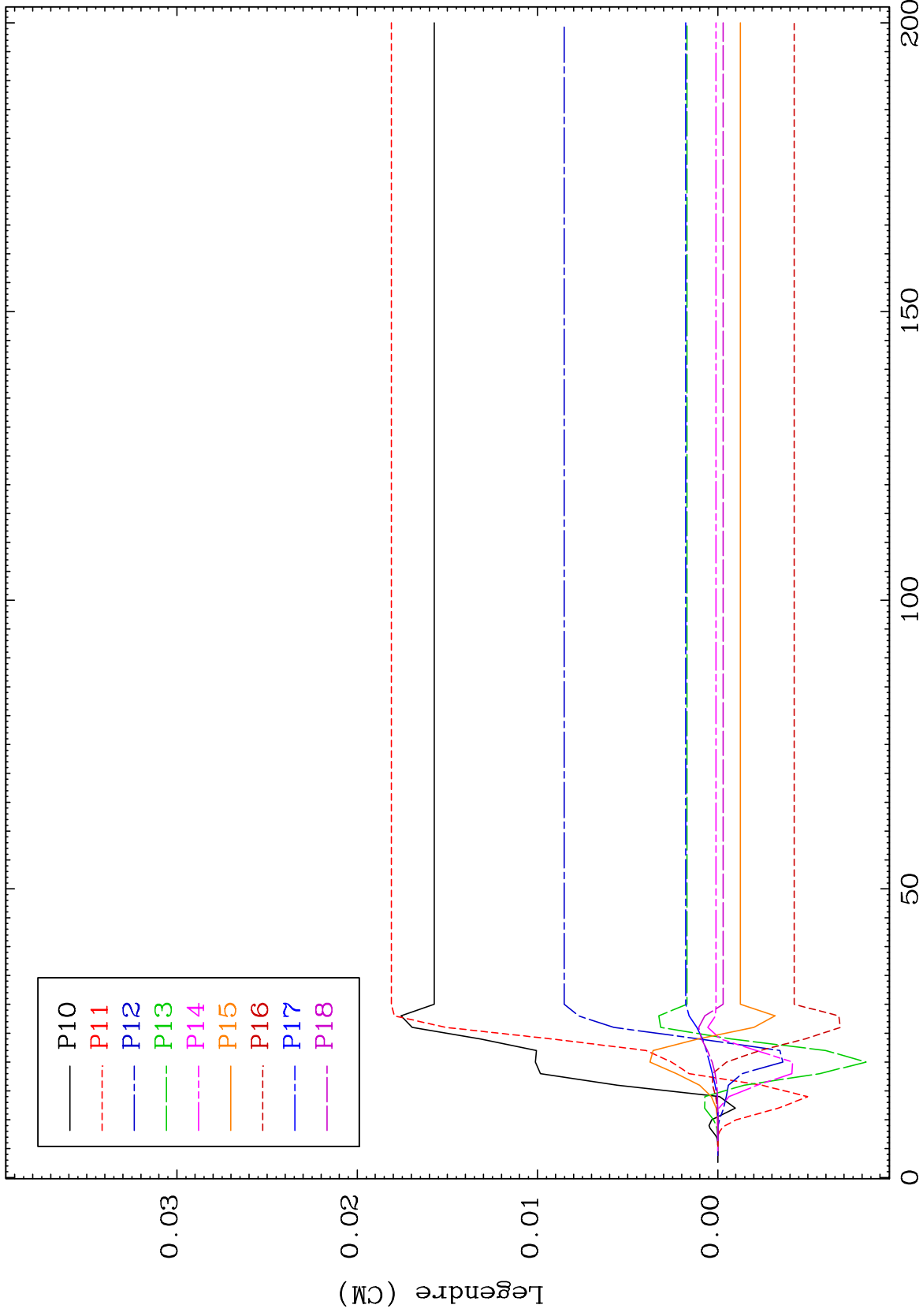
58-Ce-142



MAT 5843

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

58-Ce-142



99

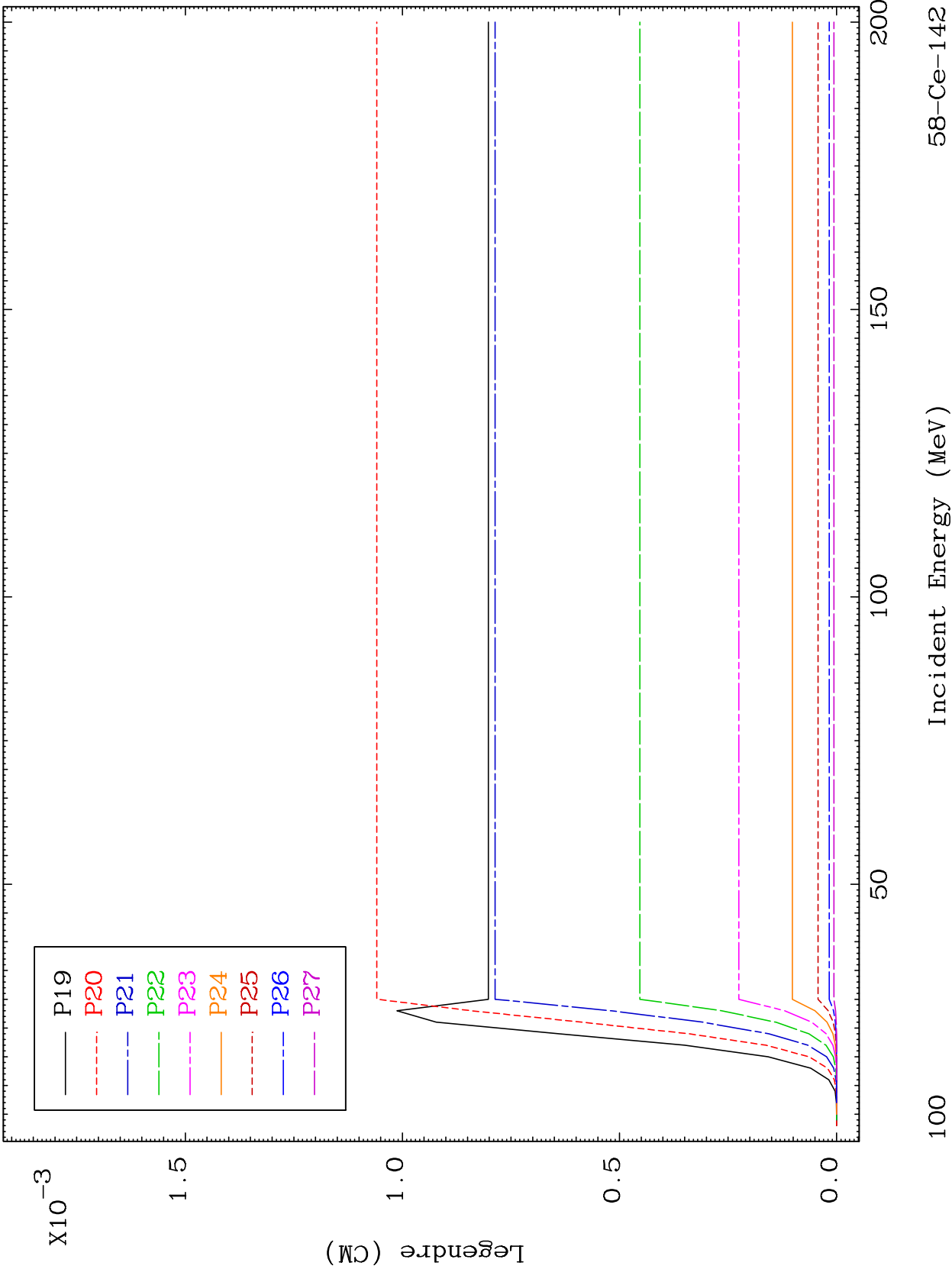
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

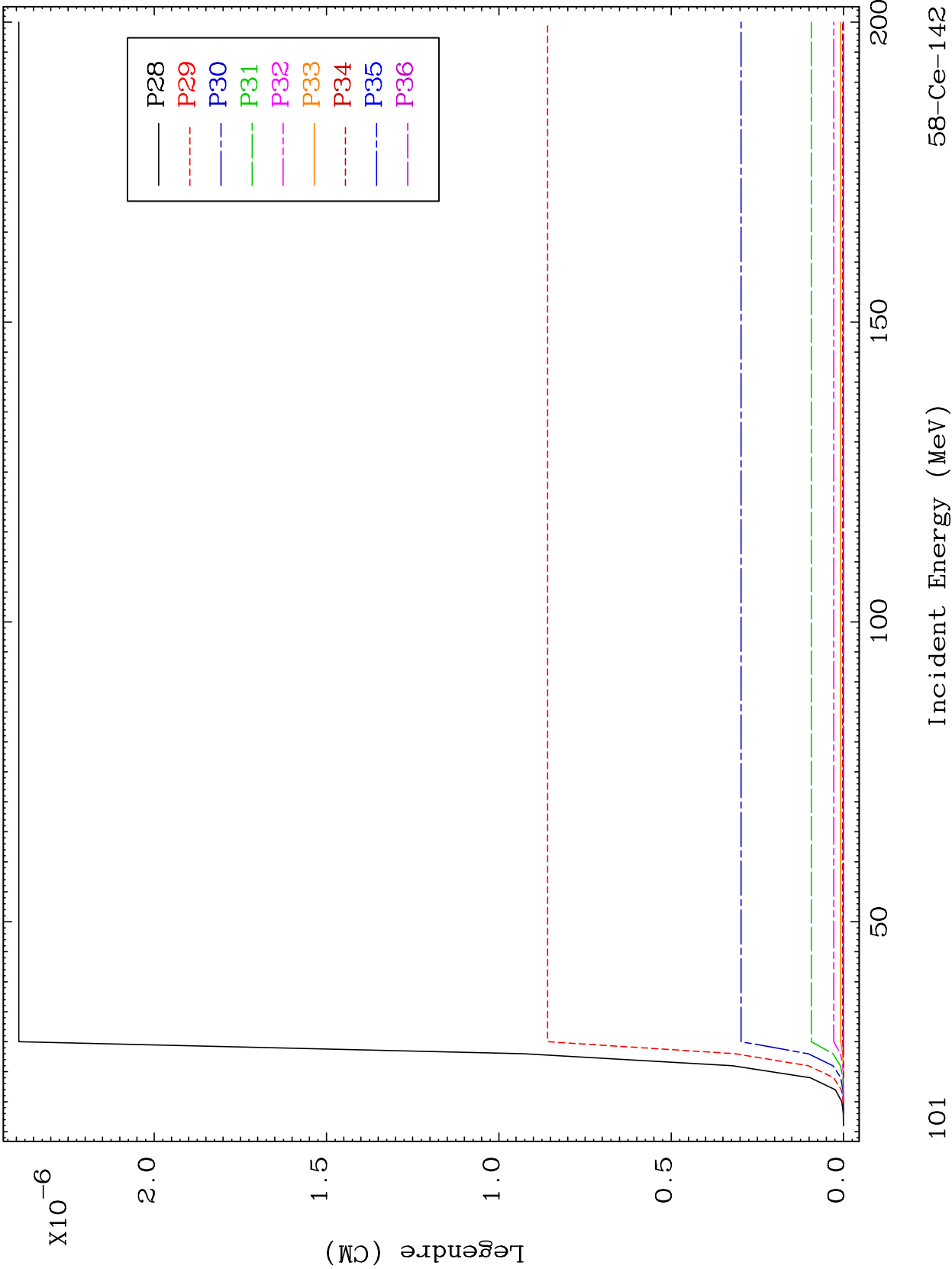
58-Ce-142

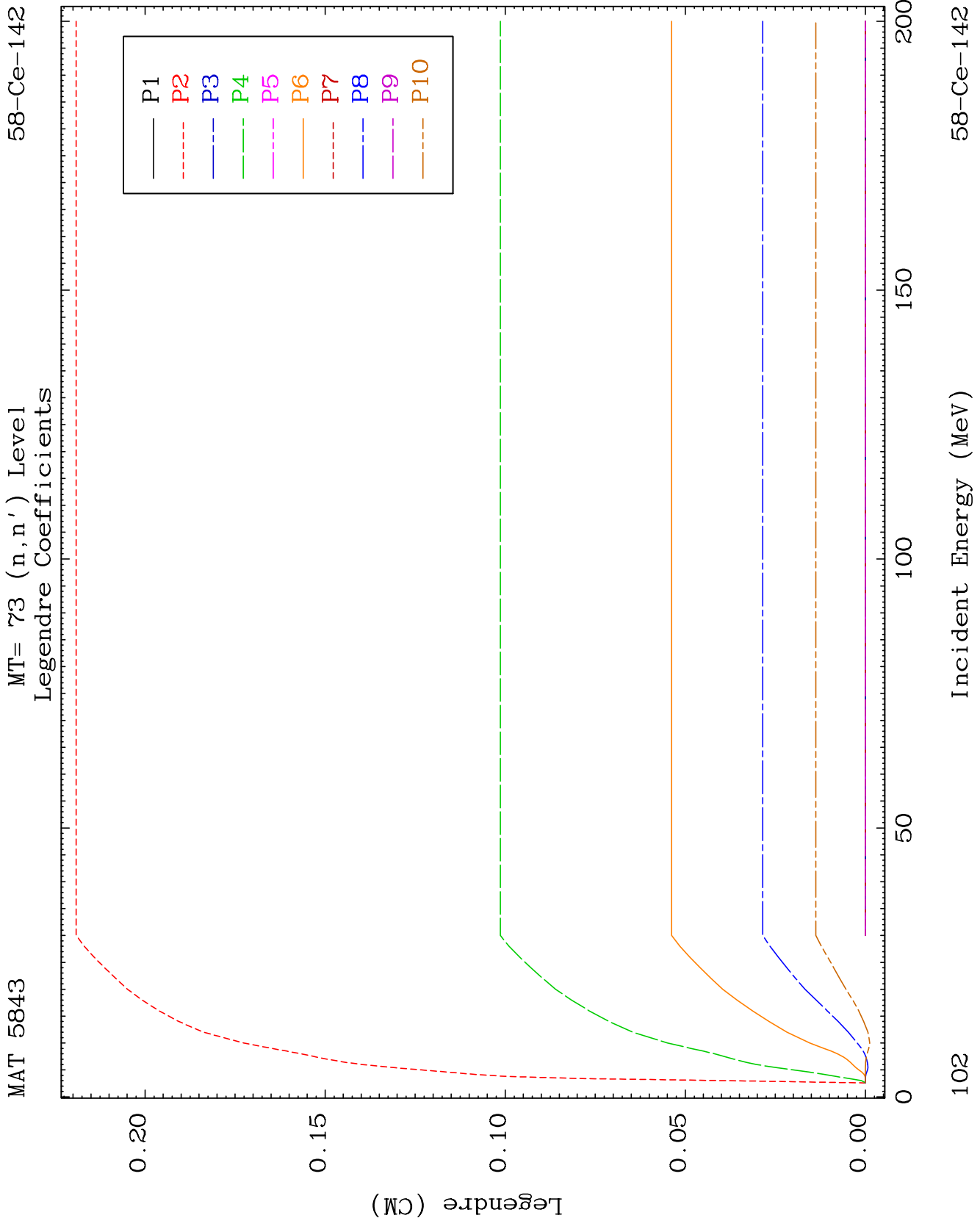


MAT 5843

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

58-Ce-142

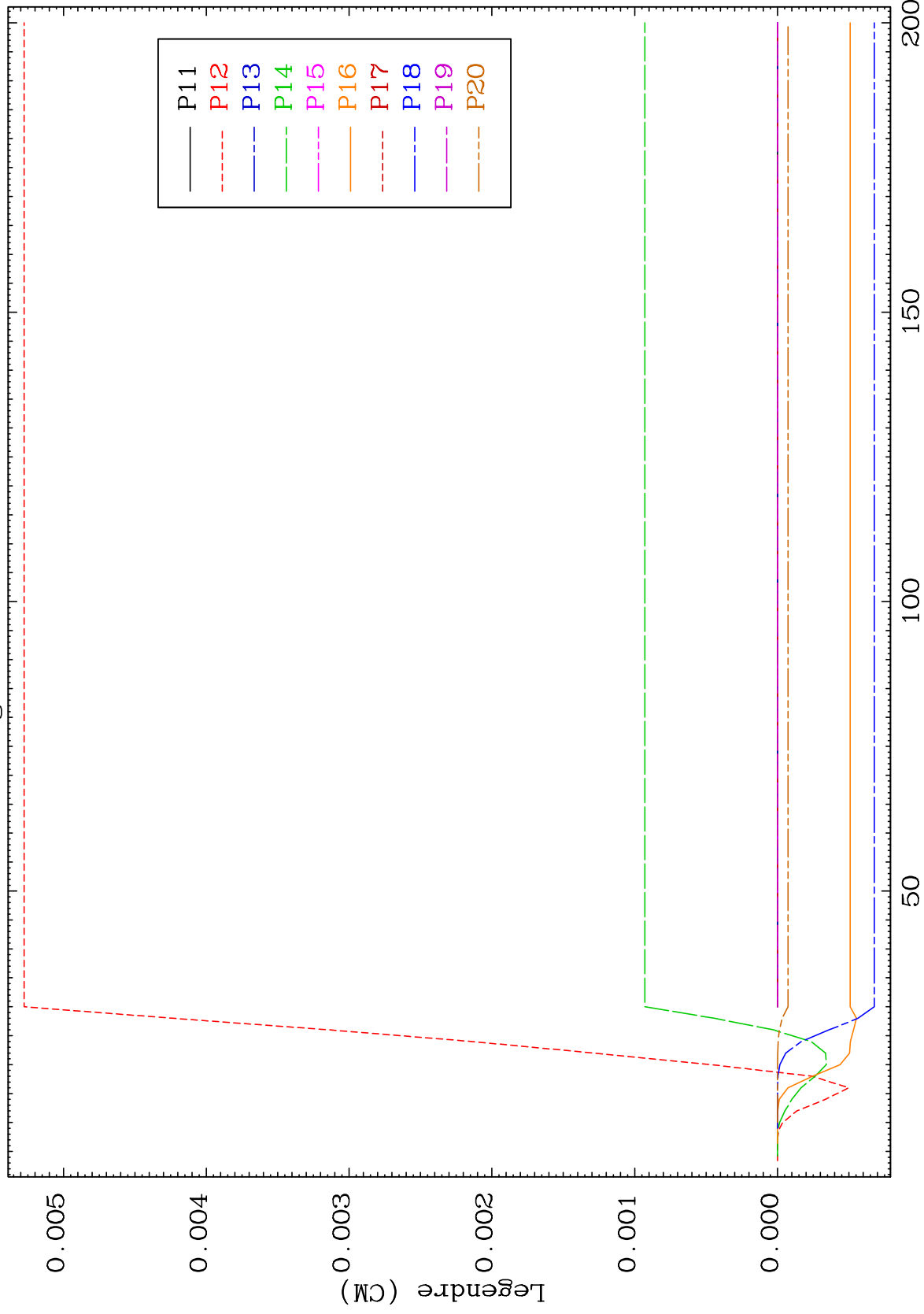




MAT 5843

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

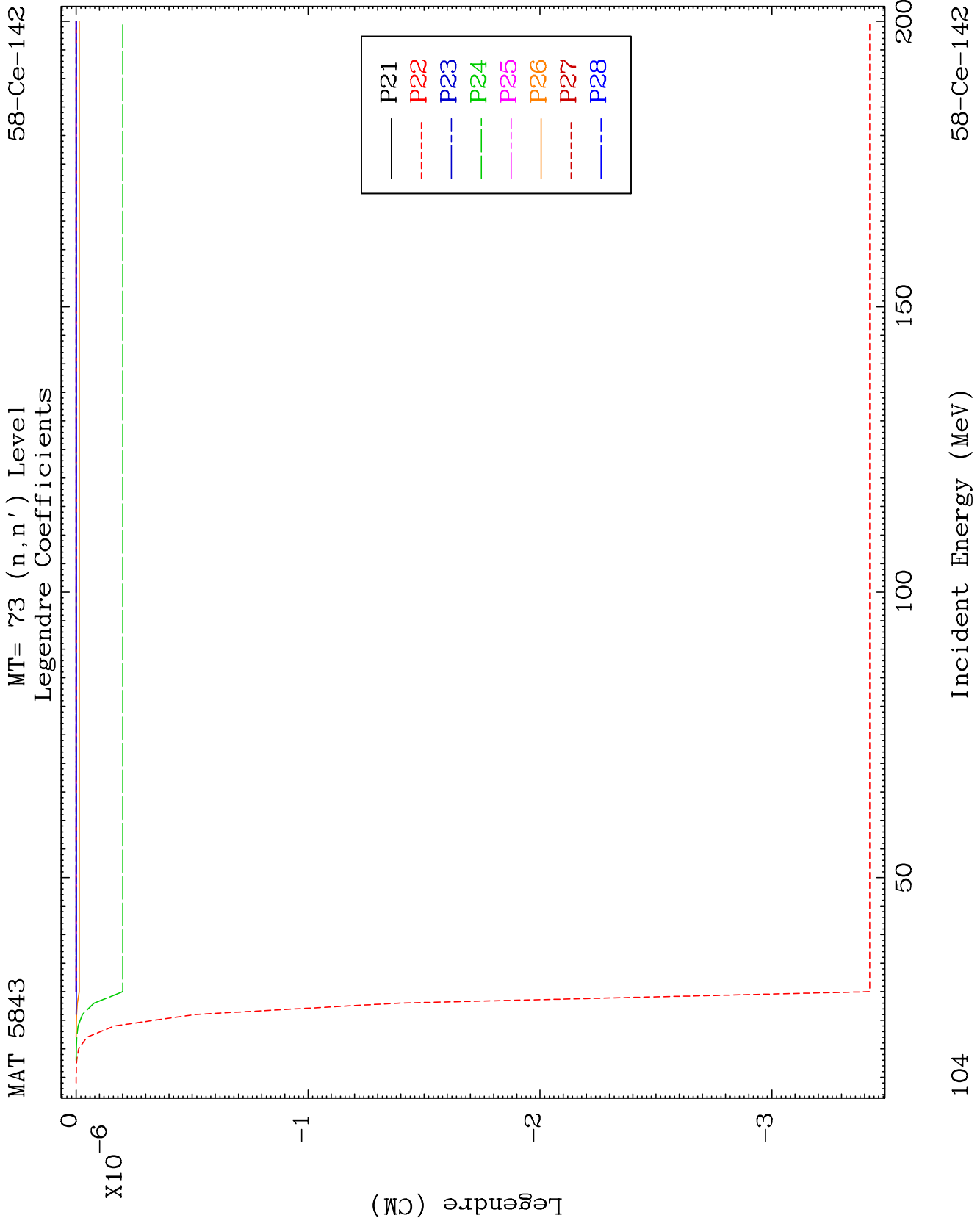
58-Ce-142



103

Incident Energy (MeV)

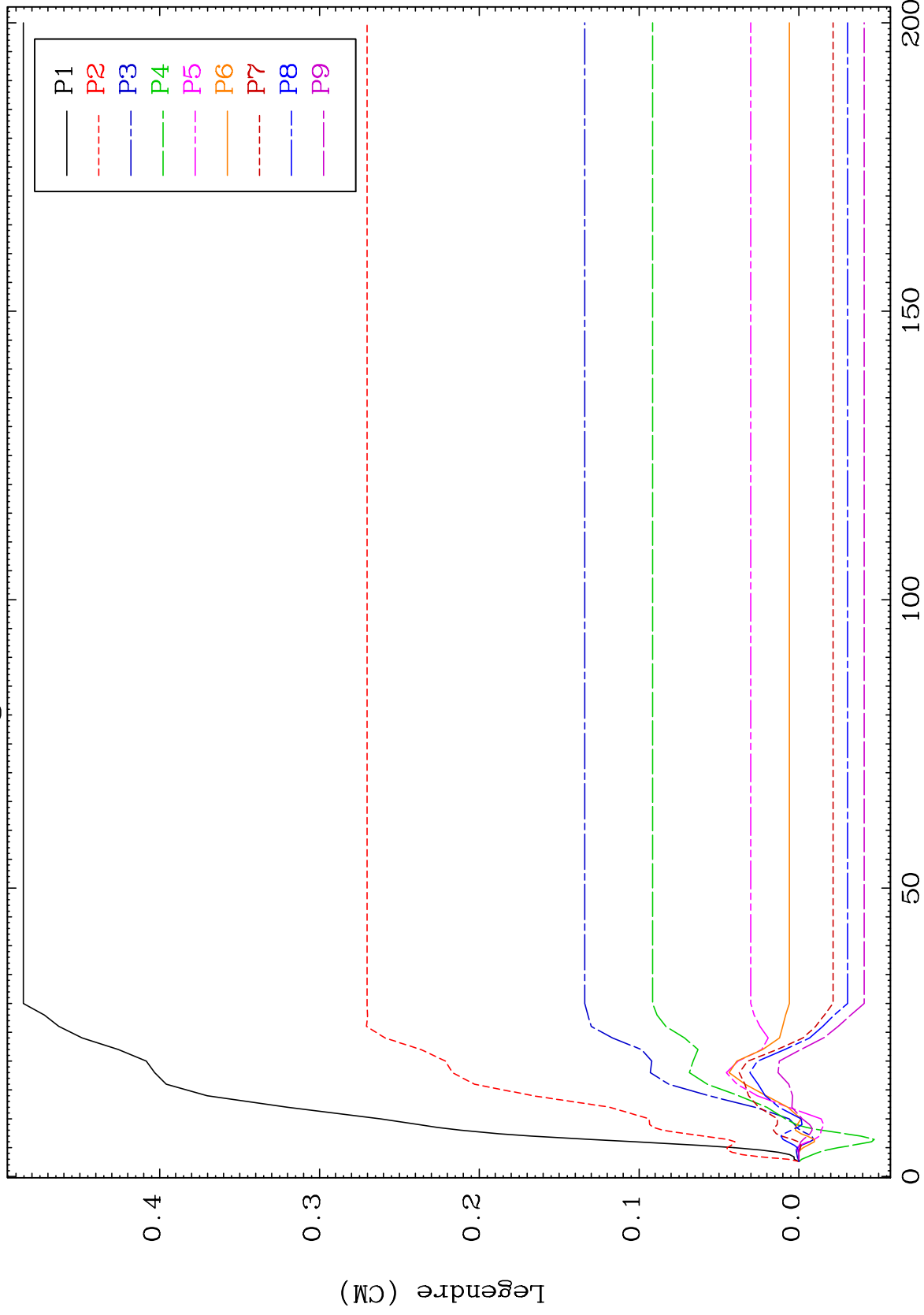
58-Ce-142



MAT 5843

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

58-Ce-142



58-Ce-142

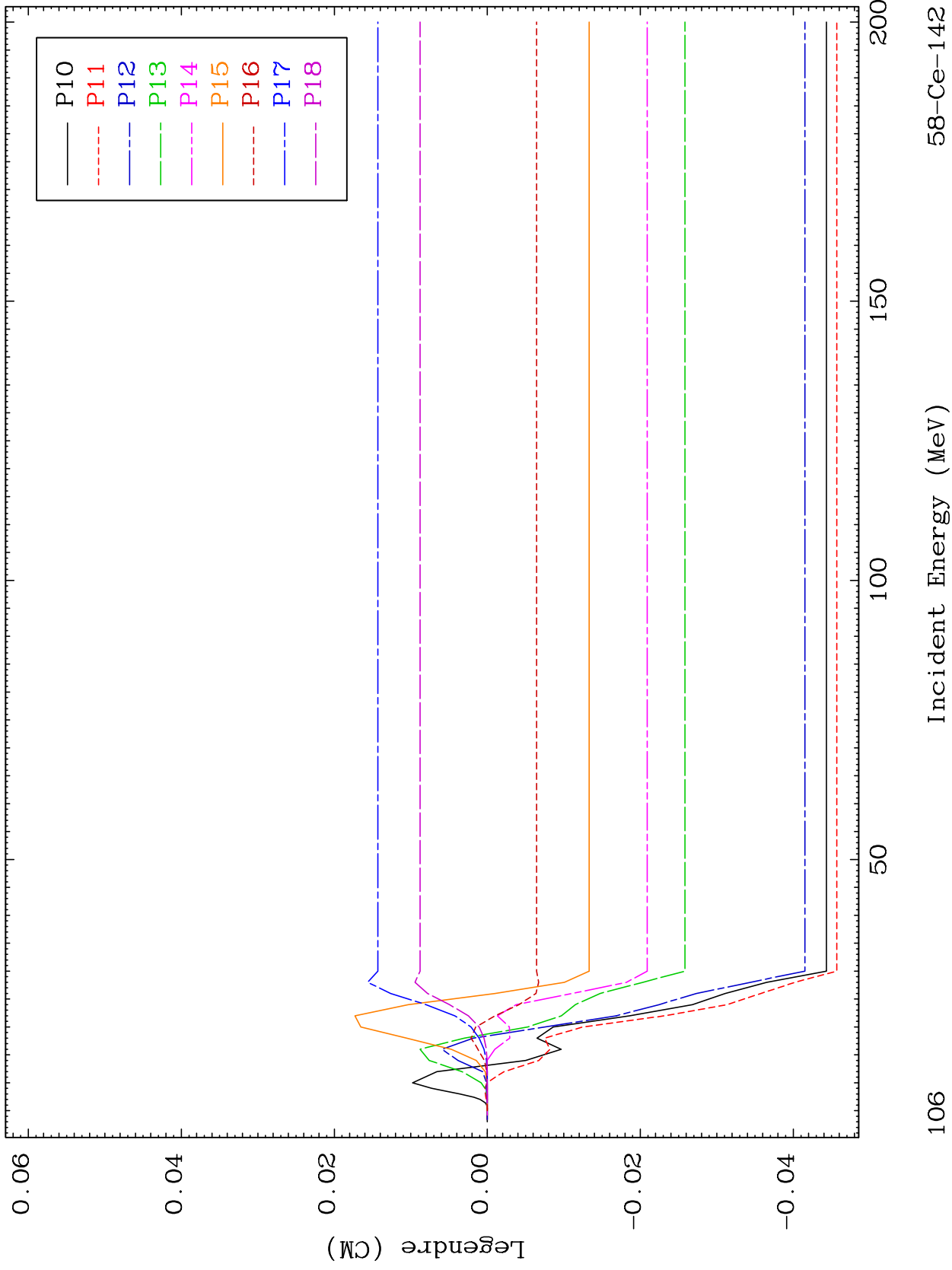
Incident Energy (MeV)

Legendre (CM)

MAT 5843

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

58-Ce-142



106

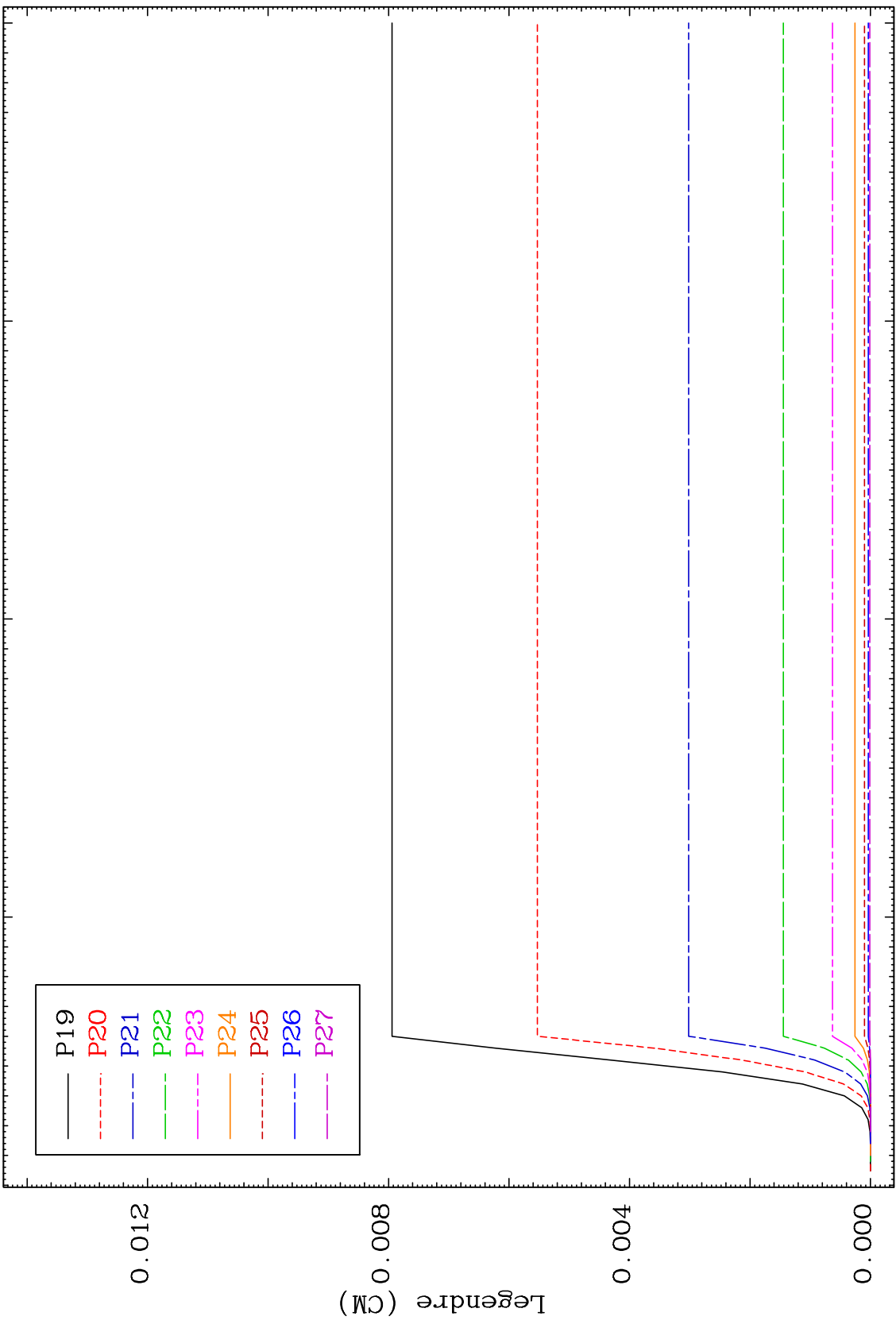
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



107

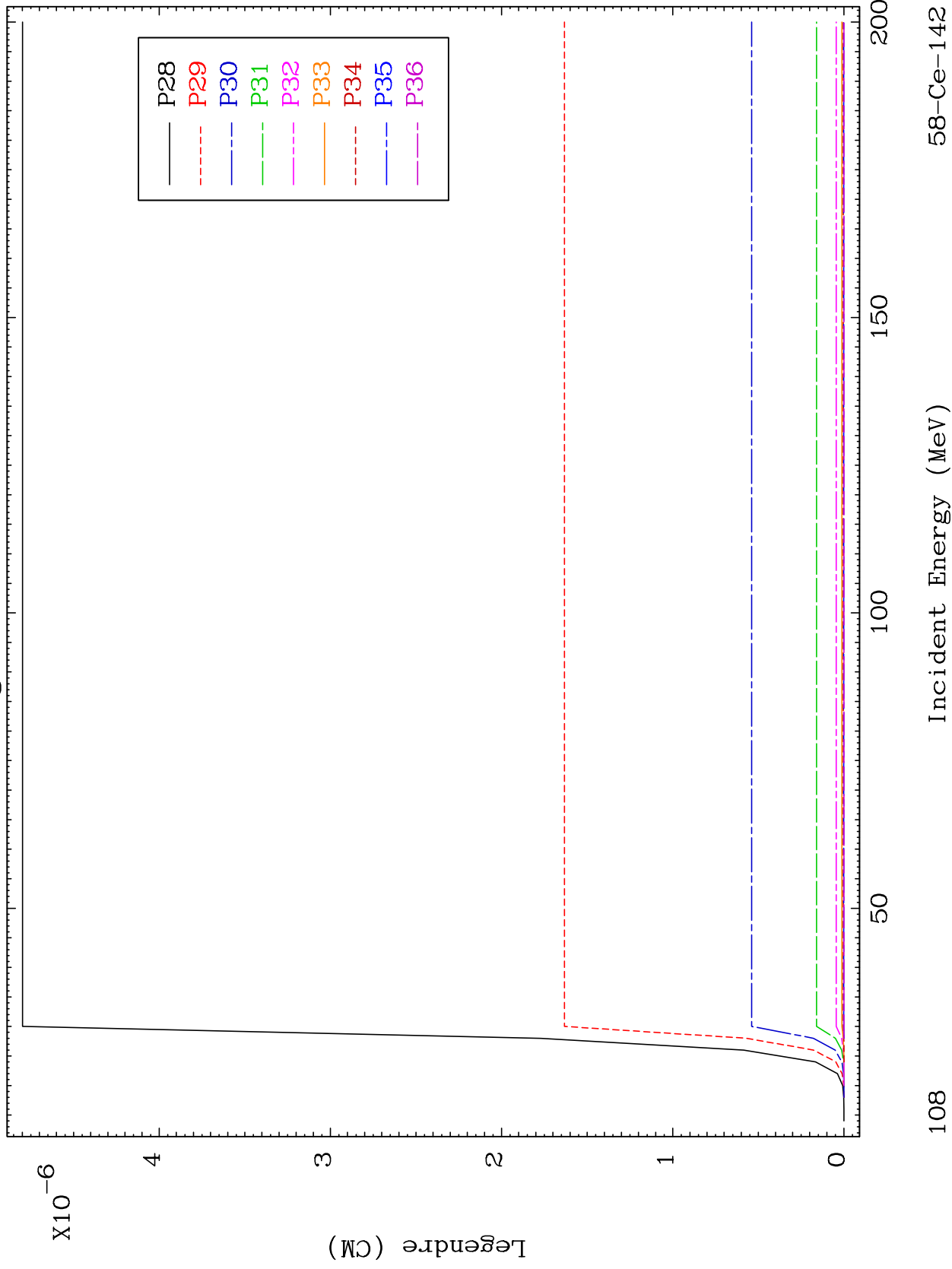
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142

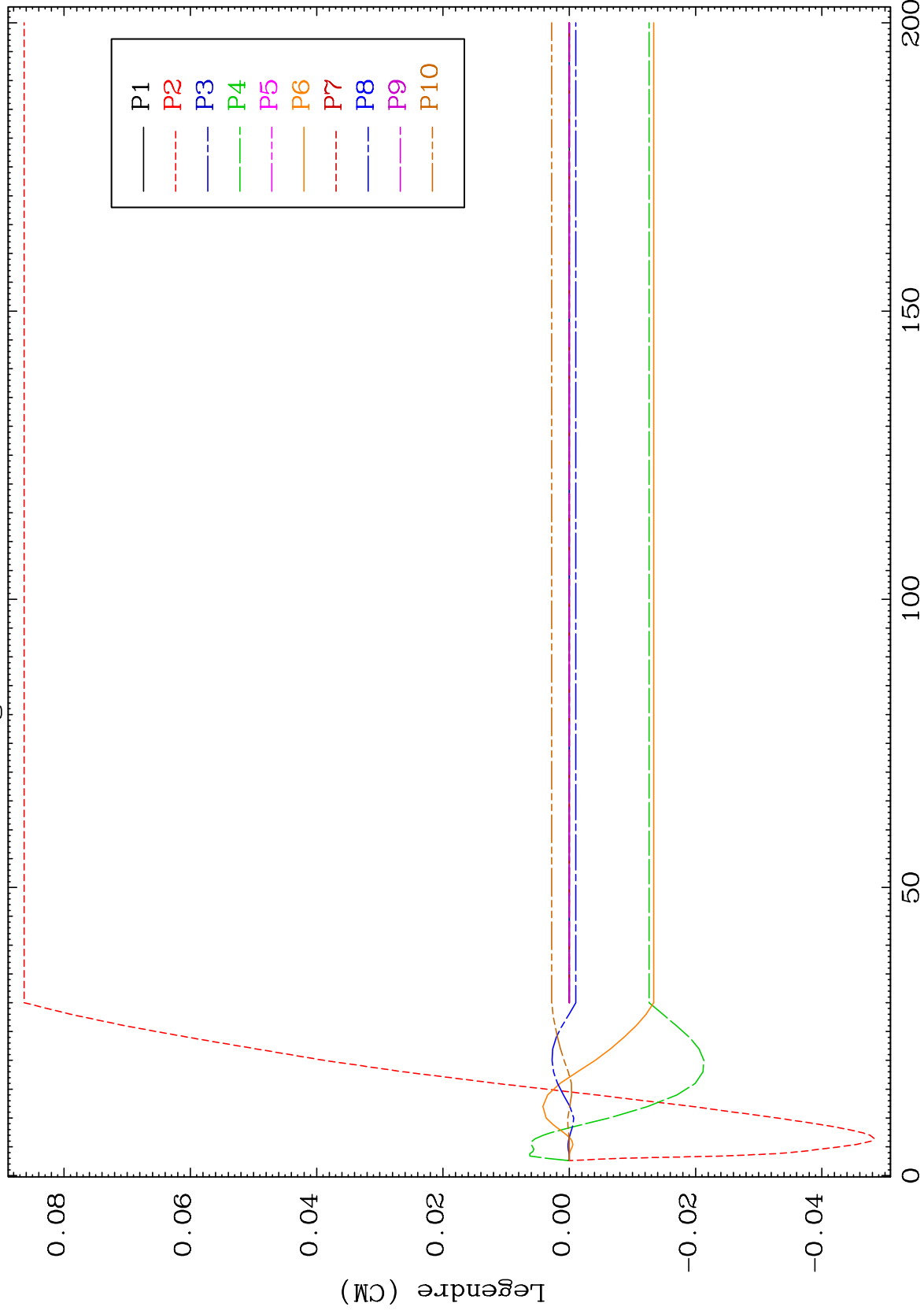


108

MAT 5843

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

58-Ce-142



58-Ce-142

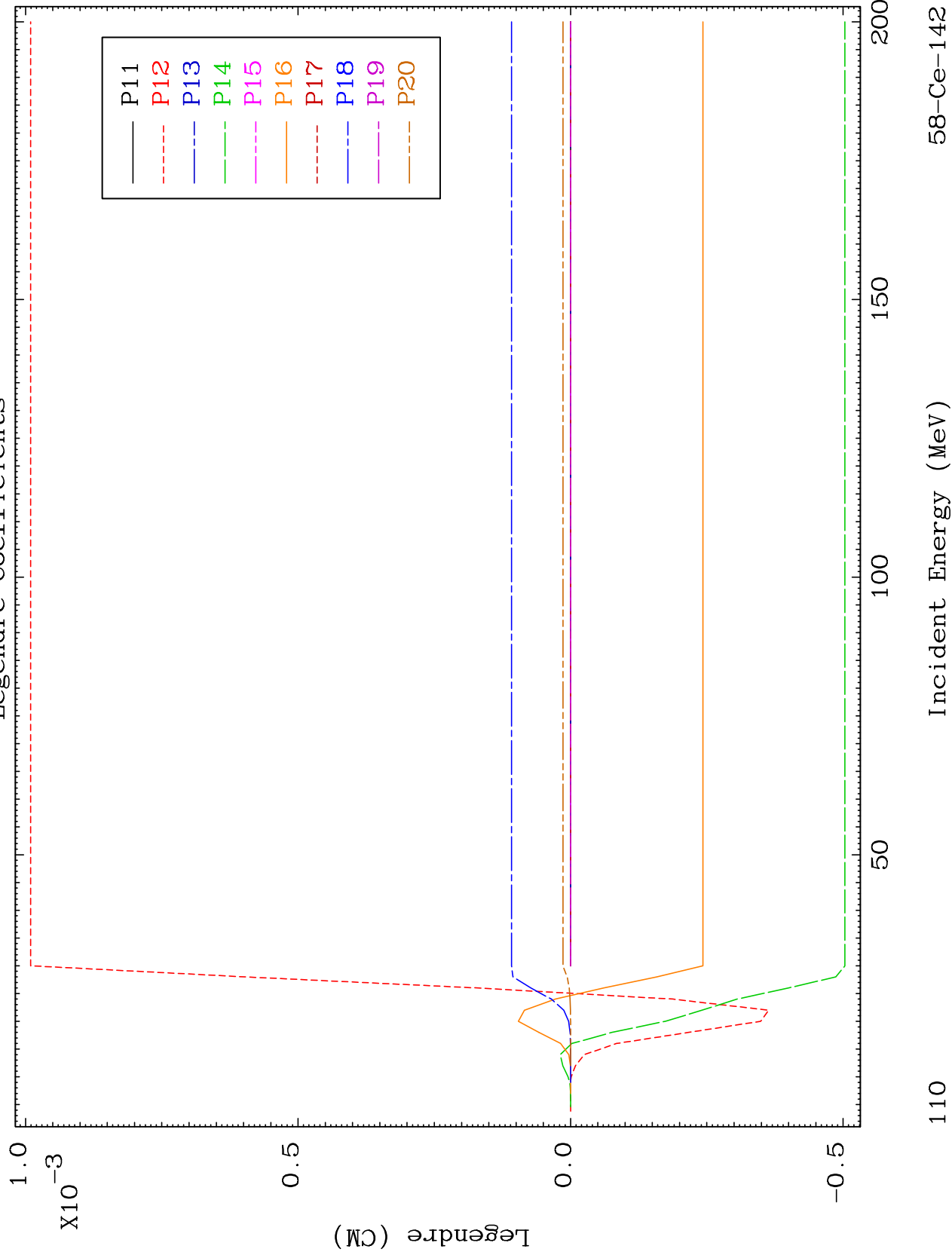
Incident Energy (MeV)

109

MAT 5843

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

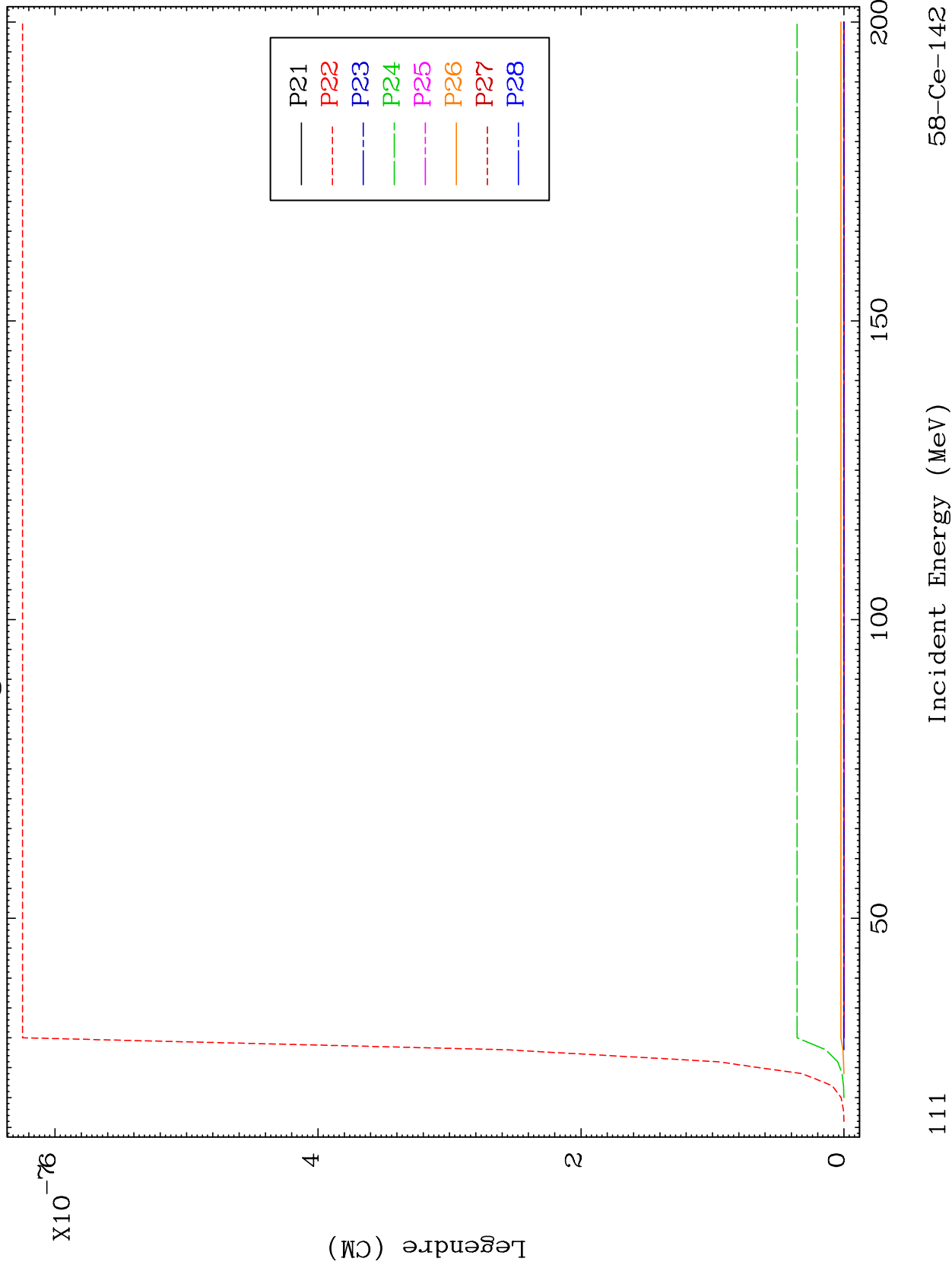
58-Ce-142



MAT 5843

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

58-Ce-142



111

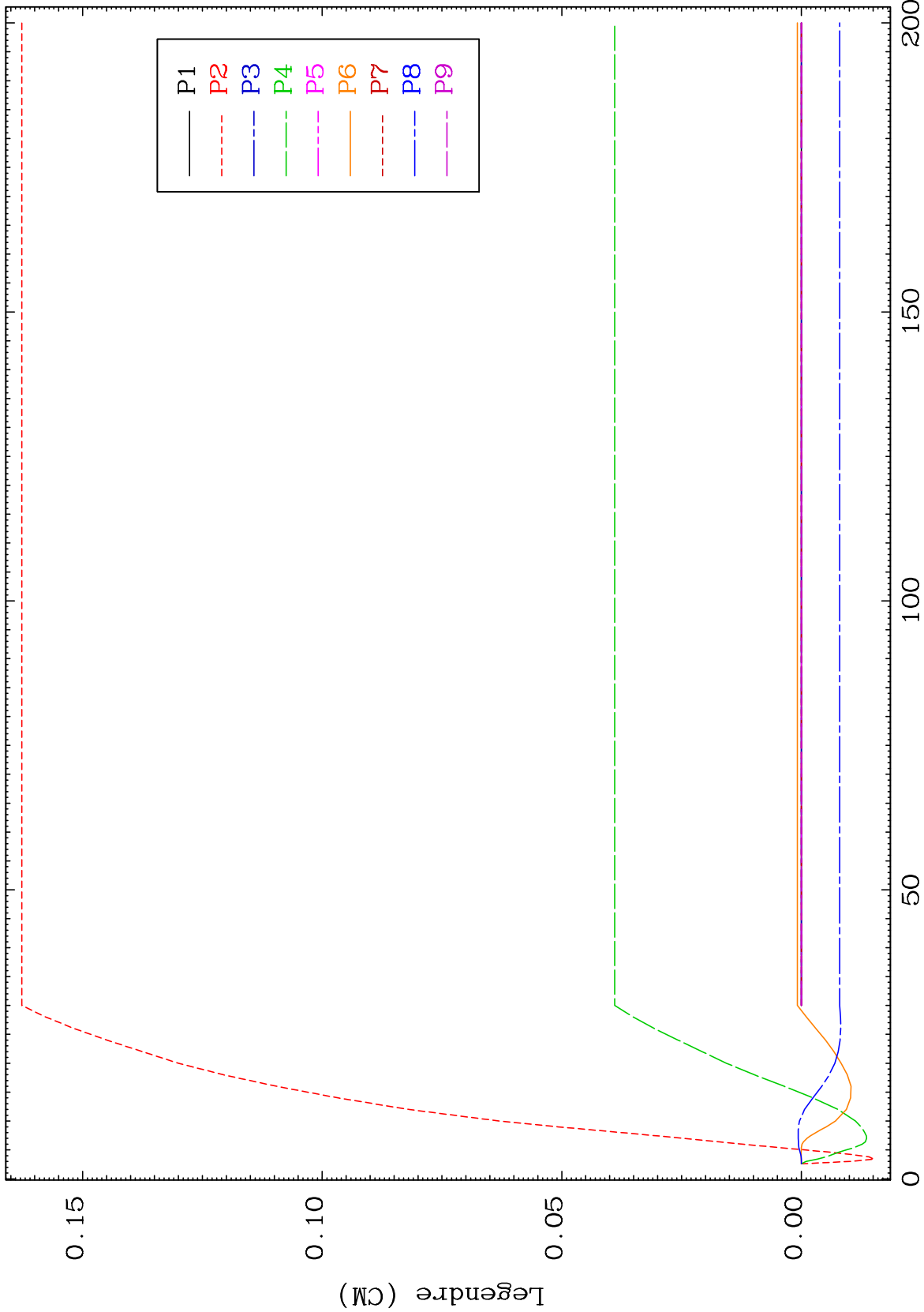
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



58-Ce-142

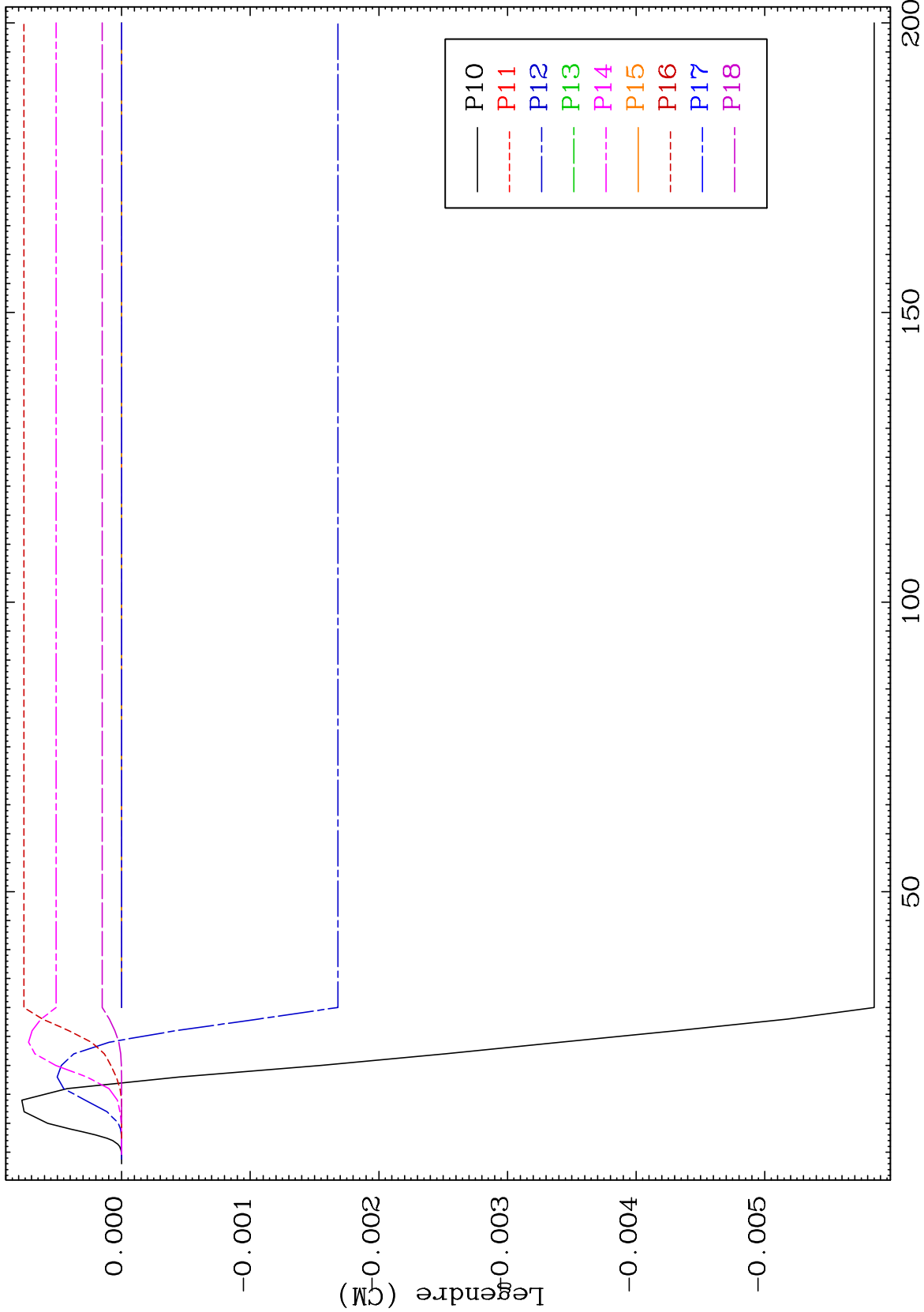
Incident Energy (MeV)

112

MAT 5843

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

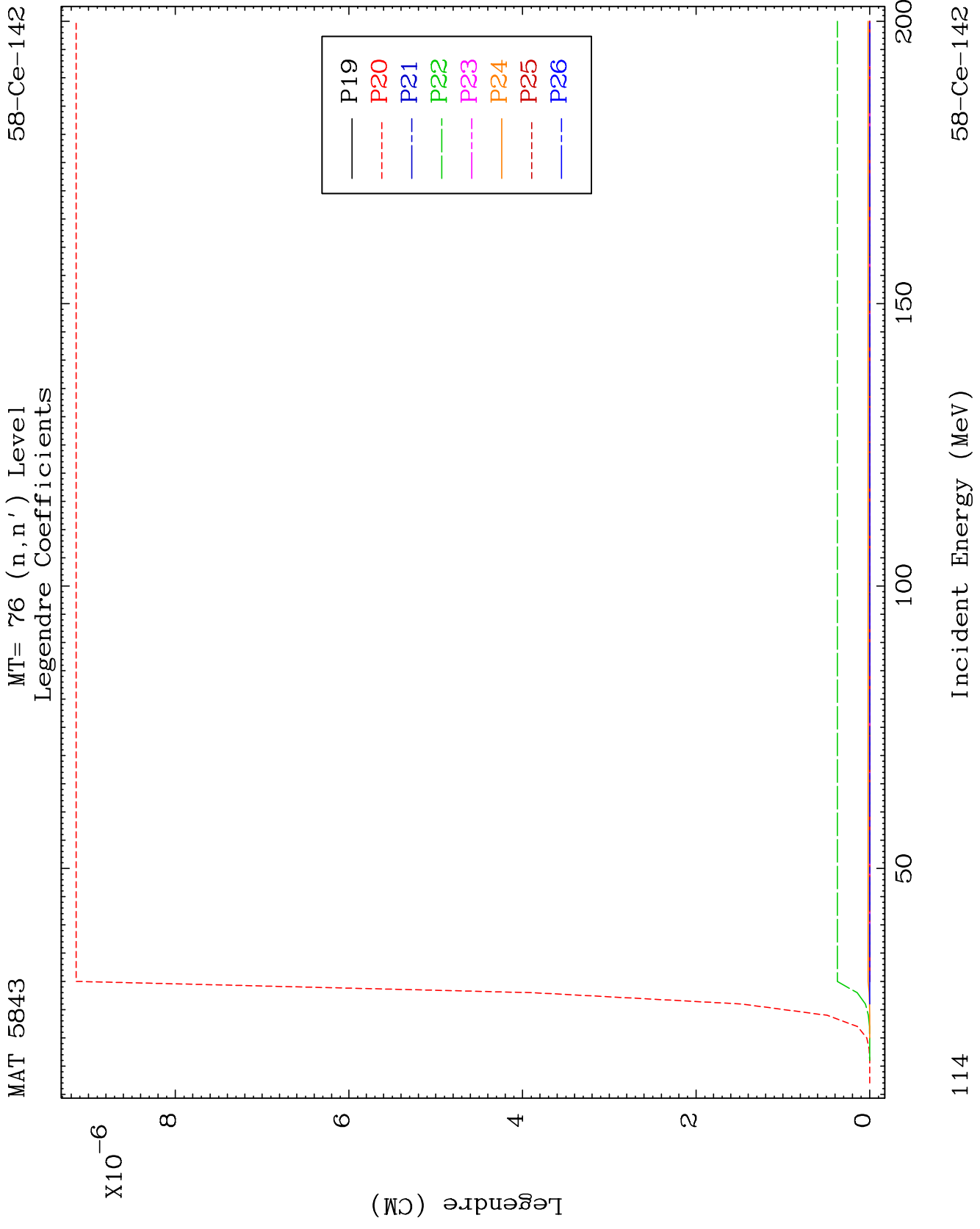
58-Ce-142

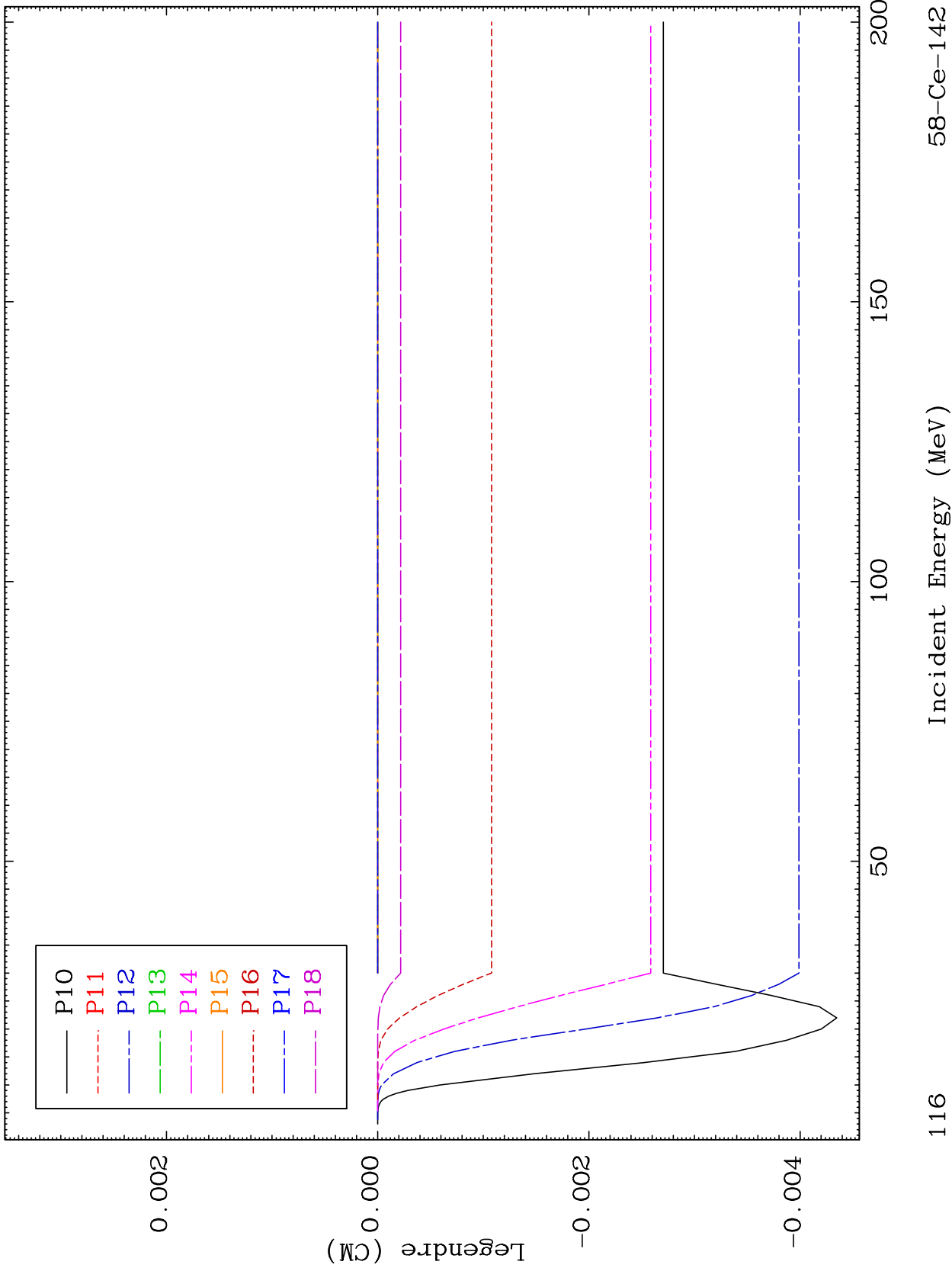


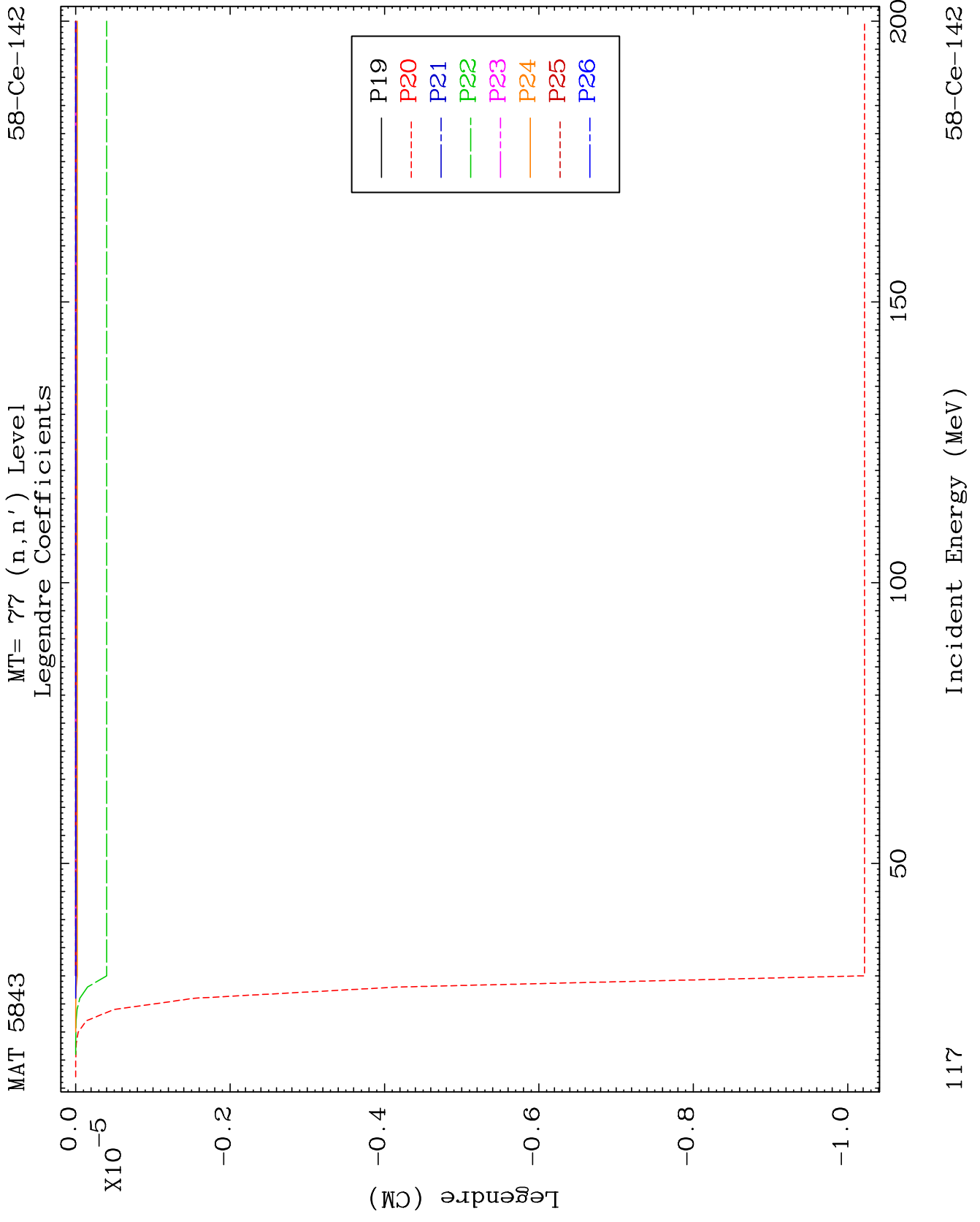
113

Incident Energy (MeV)

58-Ce-142



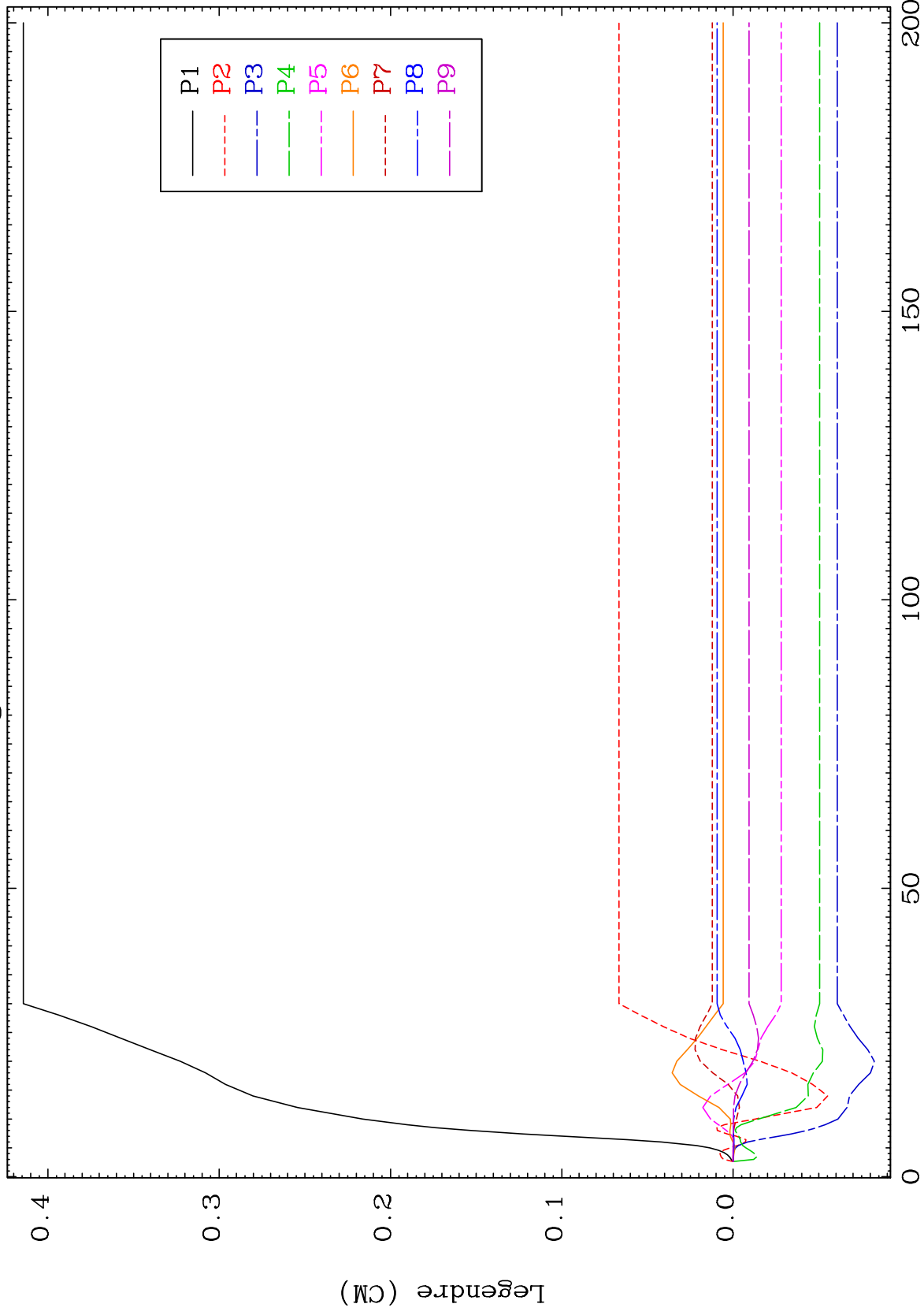




MAT 5843

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

58-Ce-142



118

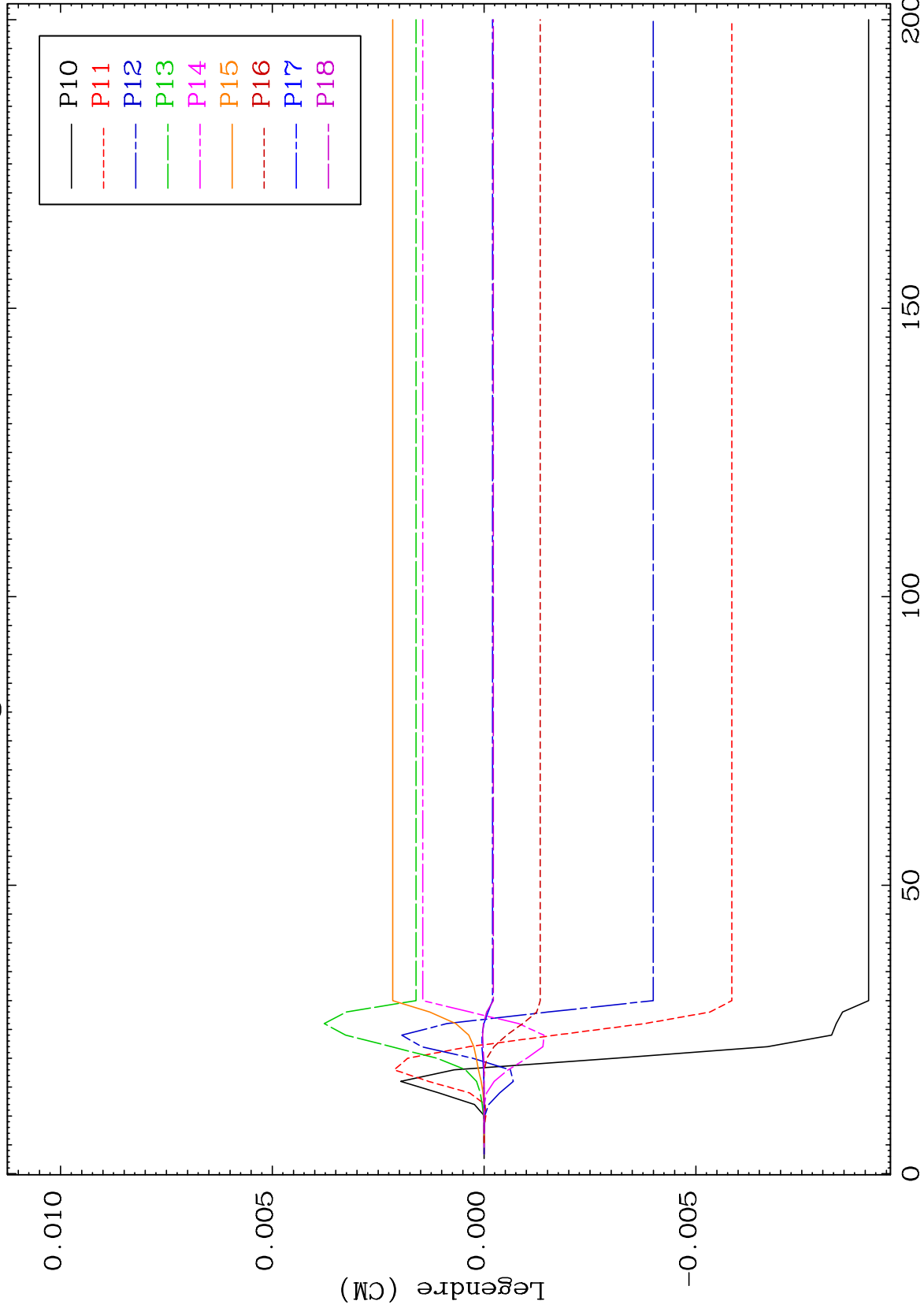
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



119

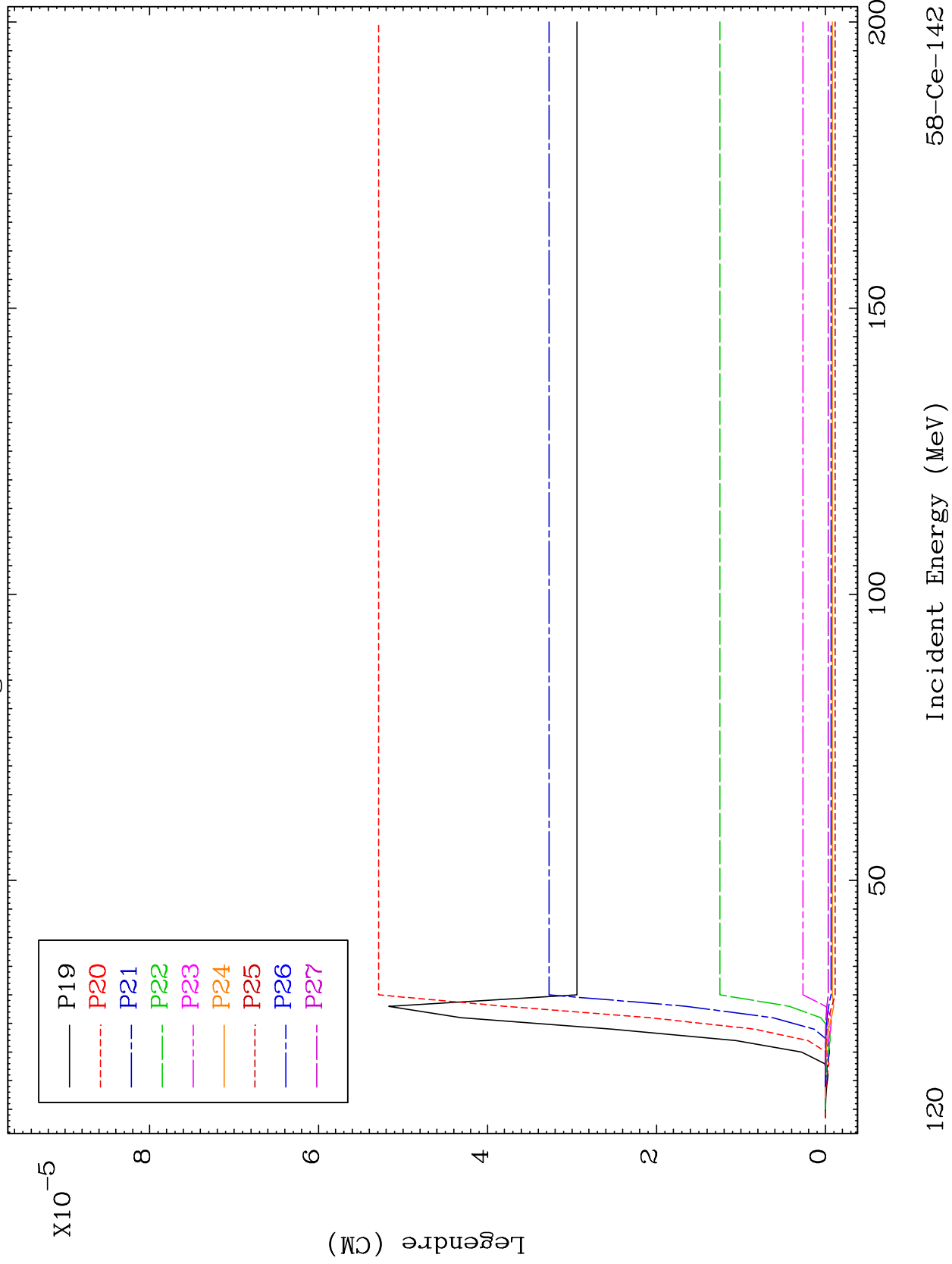
Incident Energy (MeV)

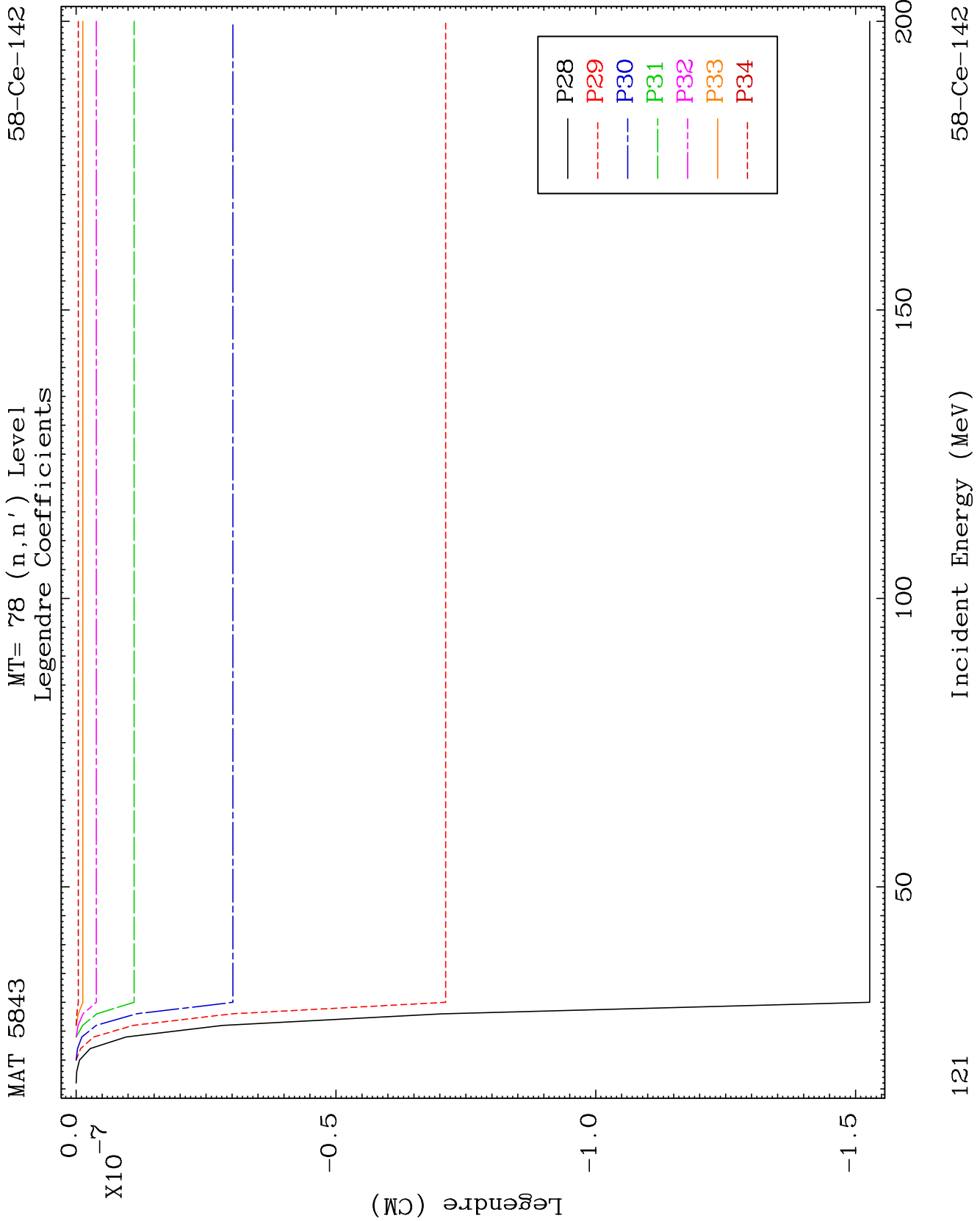
58-Ce-142

MAT 5843

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

58-Ce-142

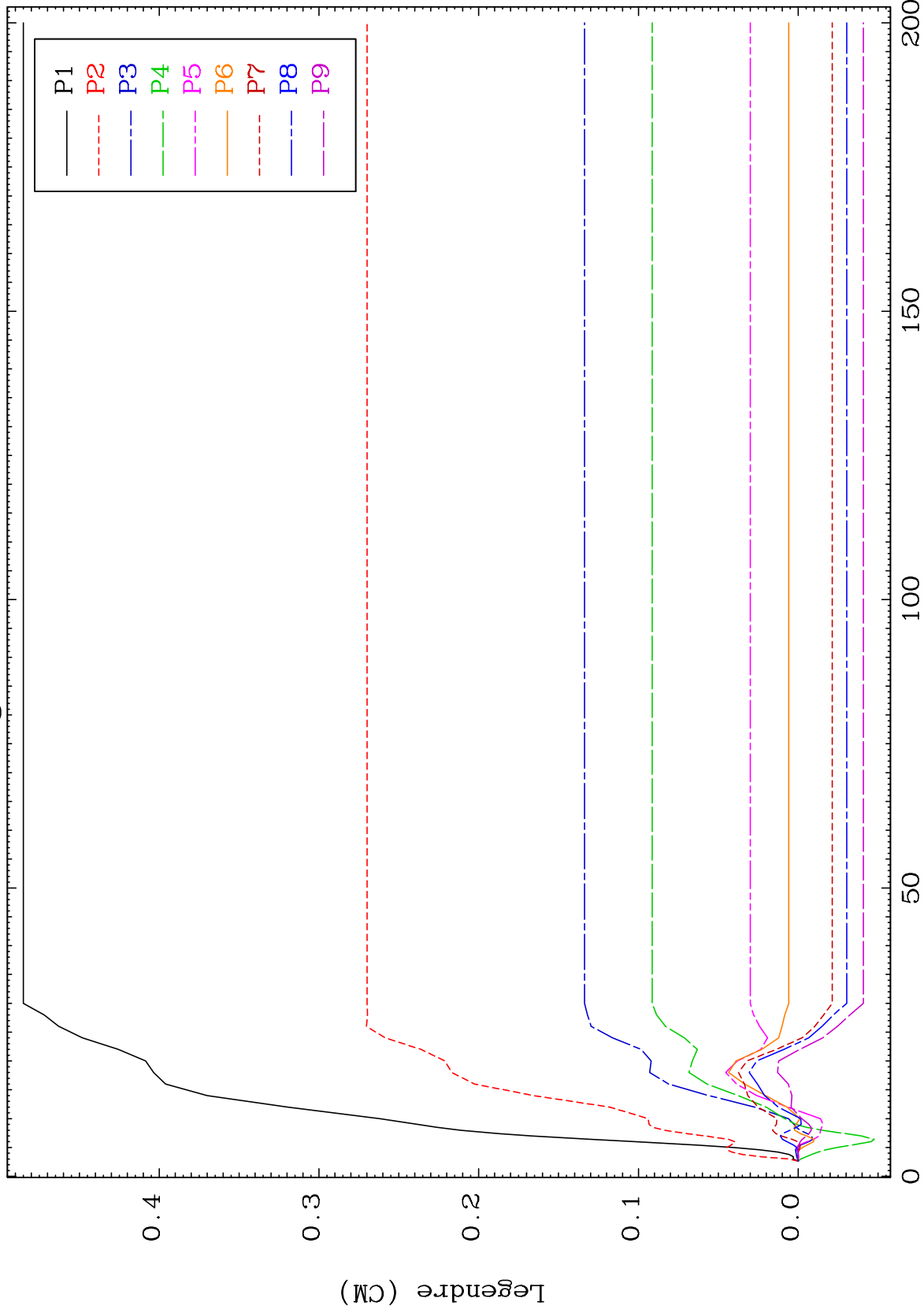




MAT 5843

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

58-Ce-142



58-Ce-142

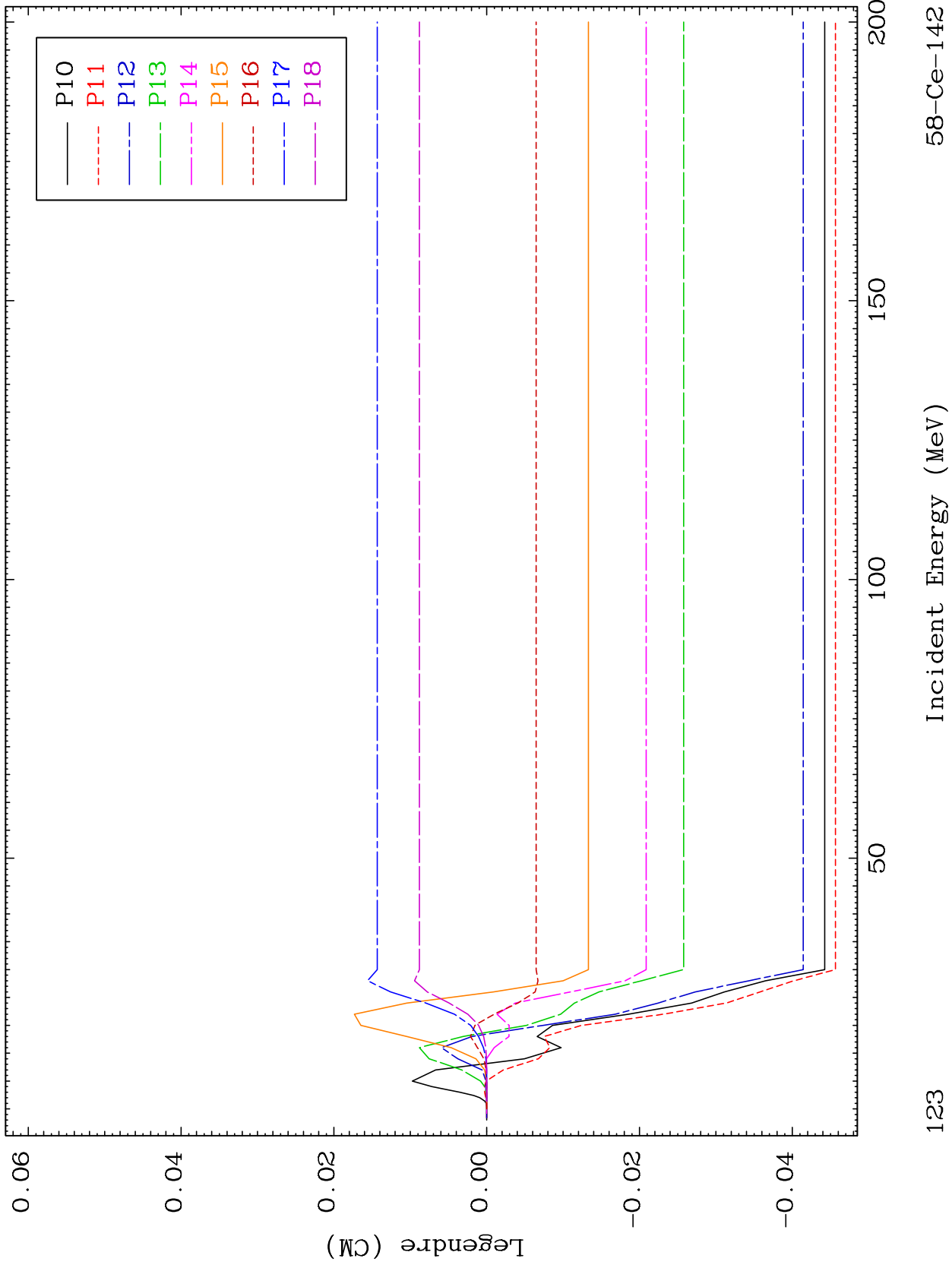
Incident Energy (MeV)

122

MAT 5843

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

58-Ce-142



123

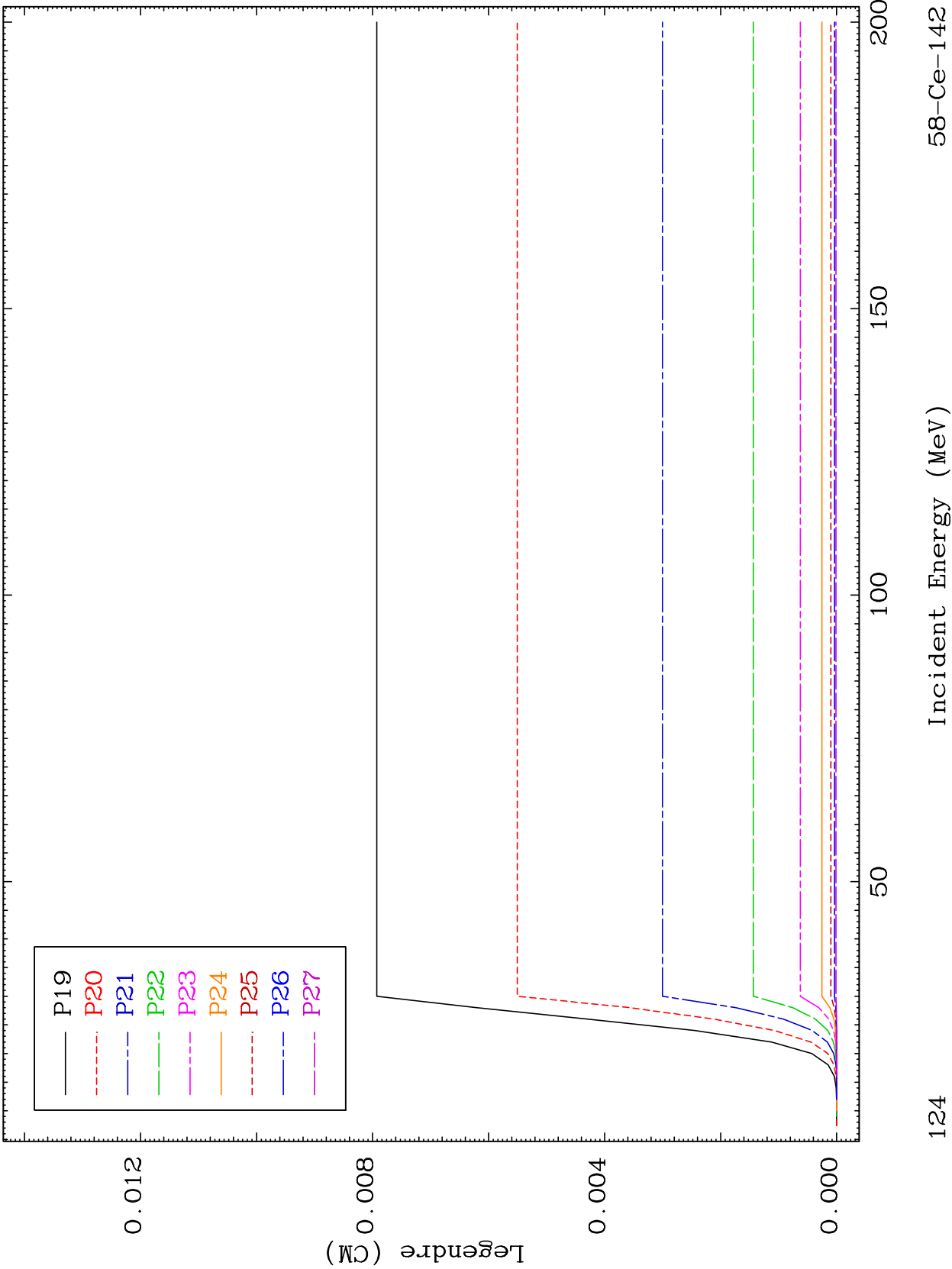
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

58-Ce-142



124

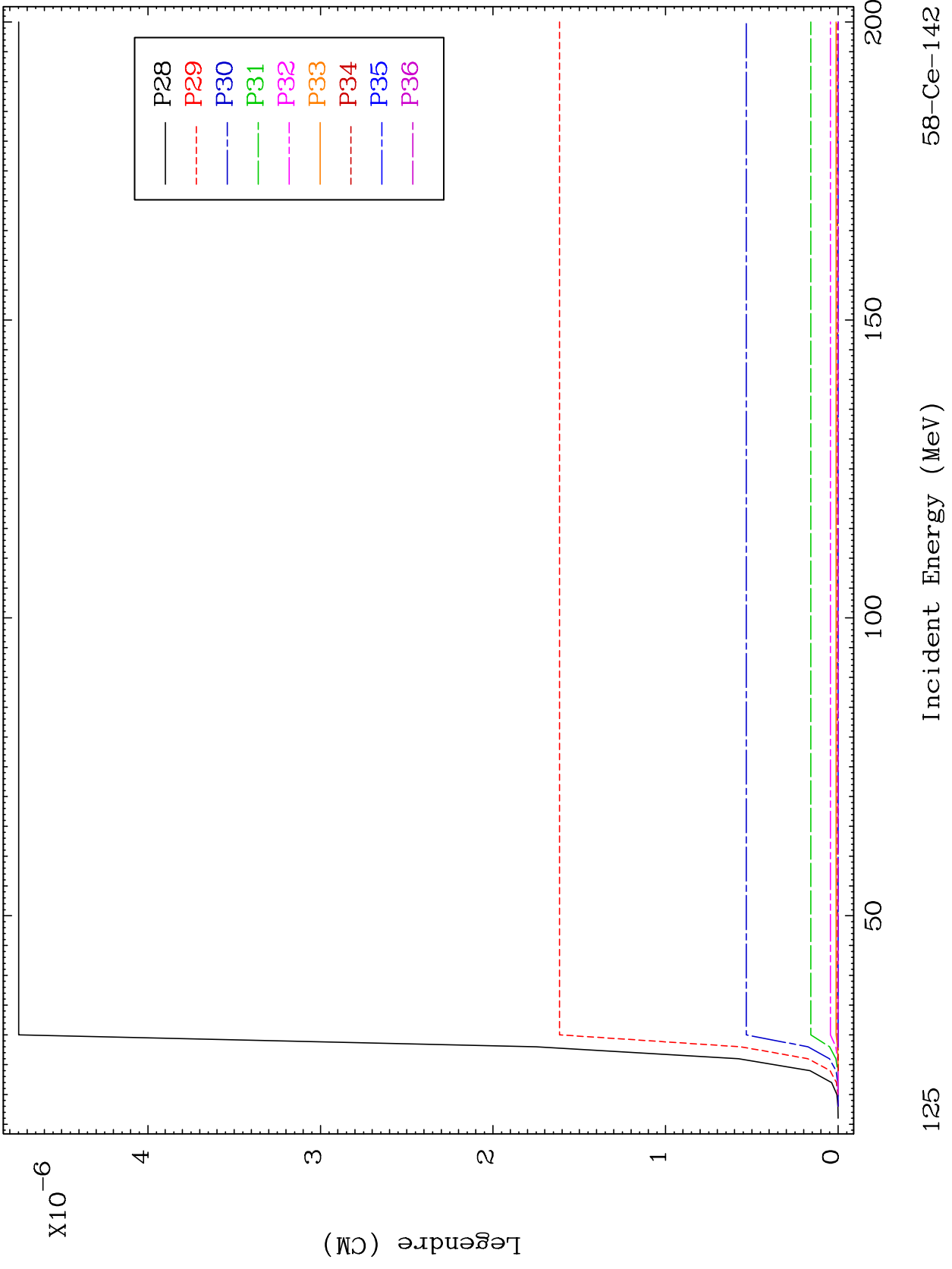
Incident Energy (MeV)

58-Ce-142

MAT 5843

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

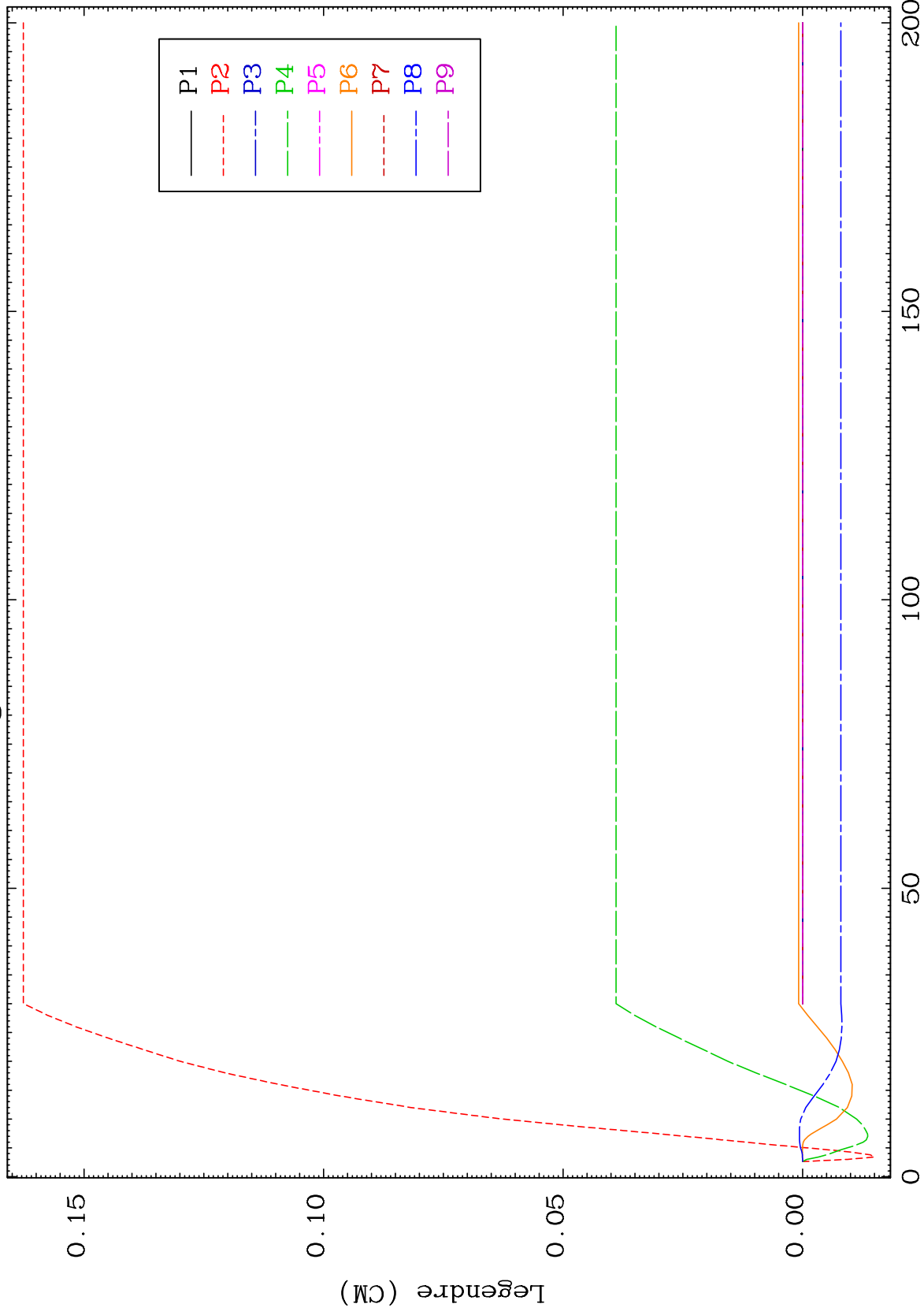
58-Ce-142



MAT 5843

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

58-Ce-142



58-Ce-142

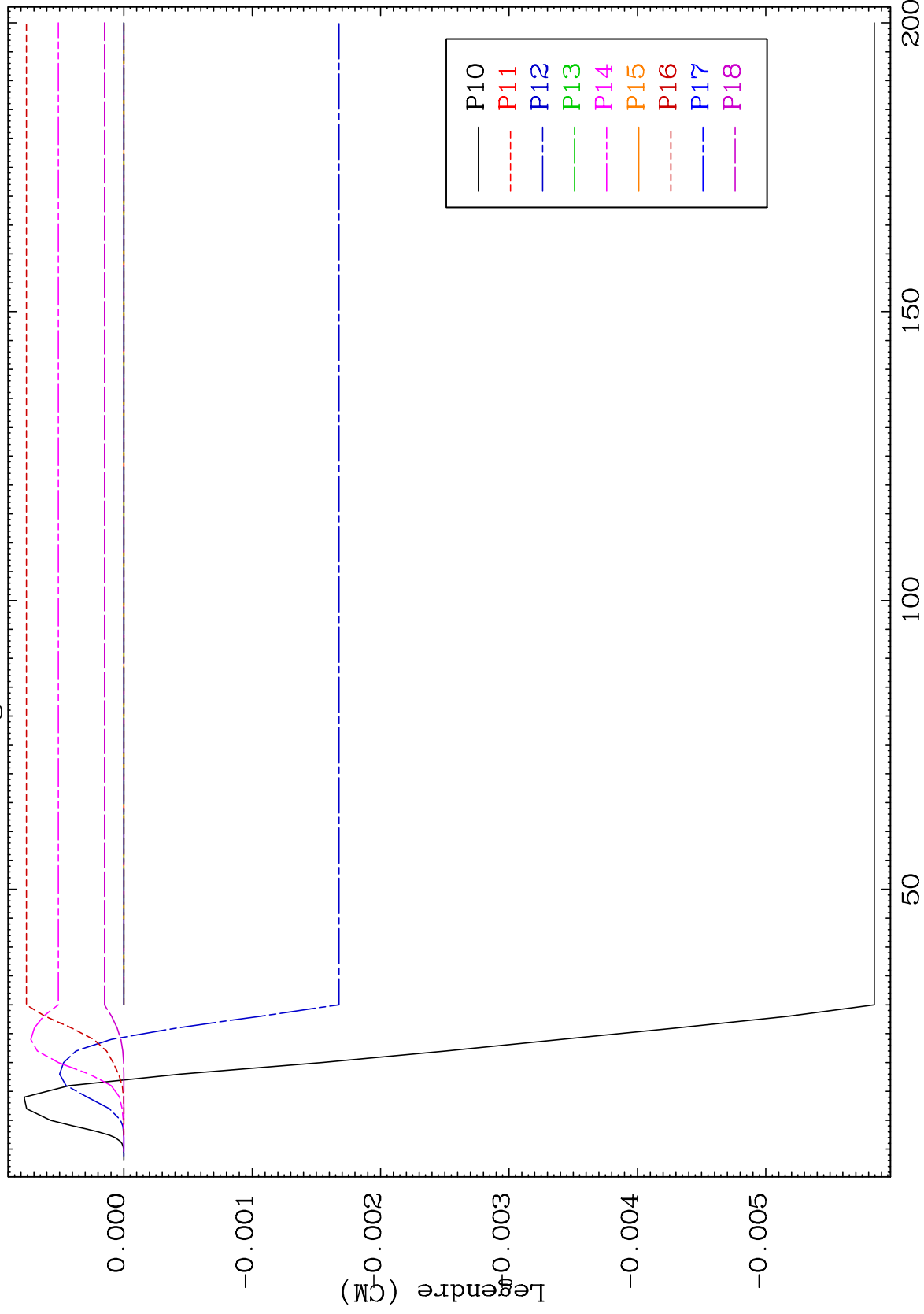
Incident Energy (MeV)

126

MAT 5843

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

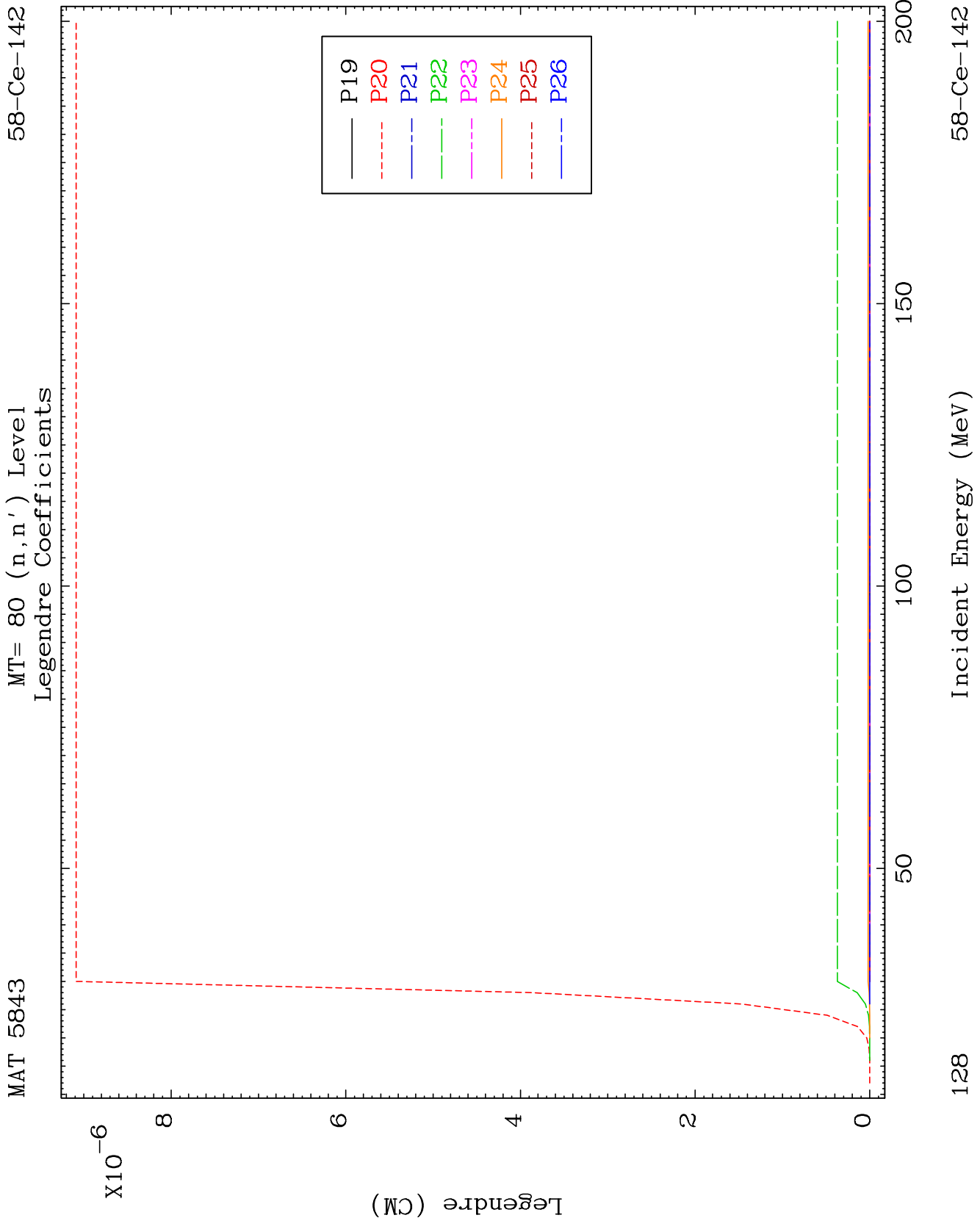
58-Ce-142



127

Incident Energy (MeV)

58-Ce-142

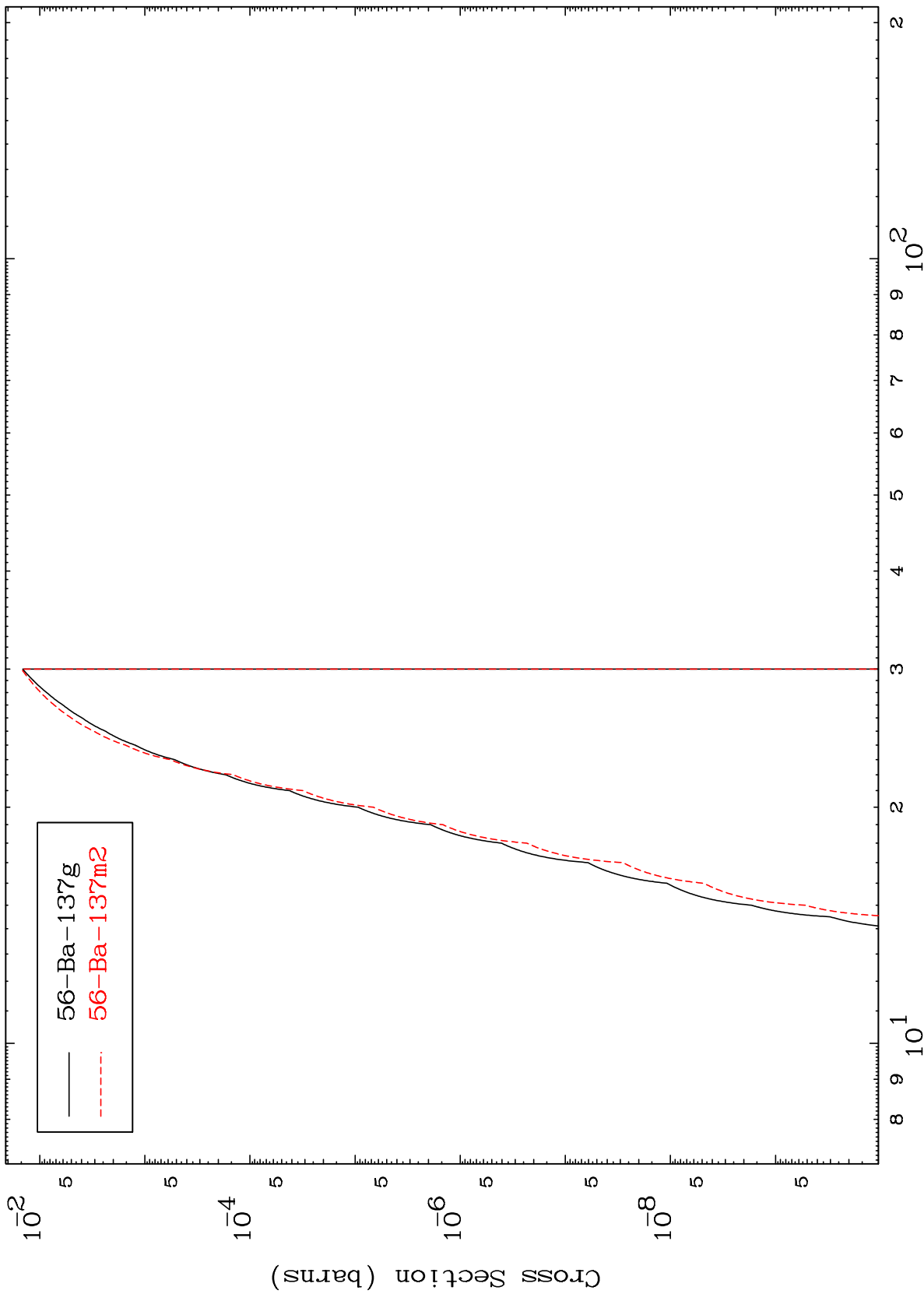


MAT 5843

(n,2n) α

58-Ce-142

Radionuclide Production Cross Section



129

Incident Energy (MeV)

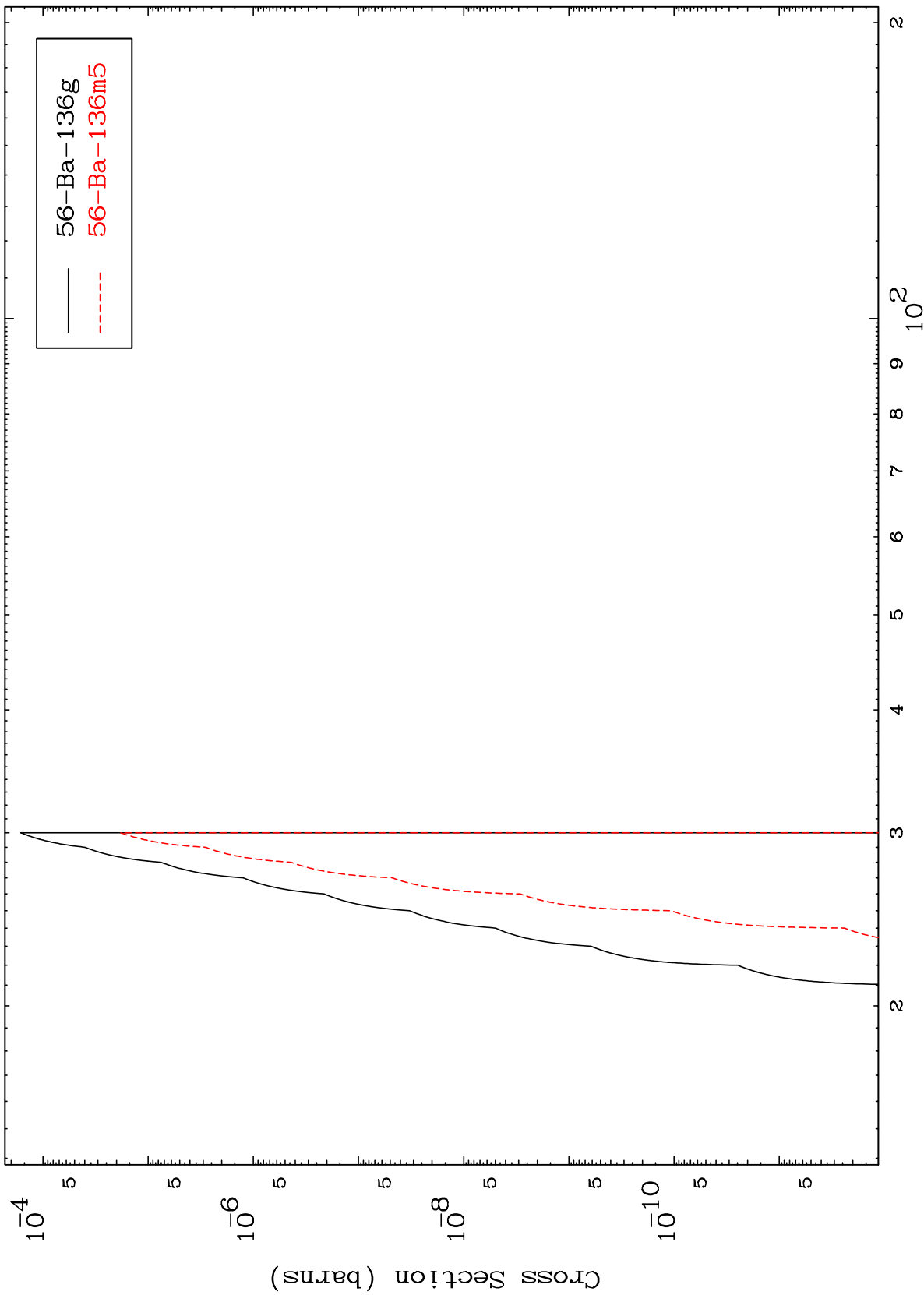
58-Ce-142

MAT 5843

(n,3n) α

58-Ce-142

Radionuclide Production Cross Section



130

Incident Energy (MeV)

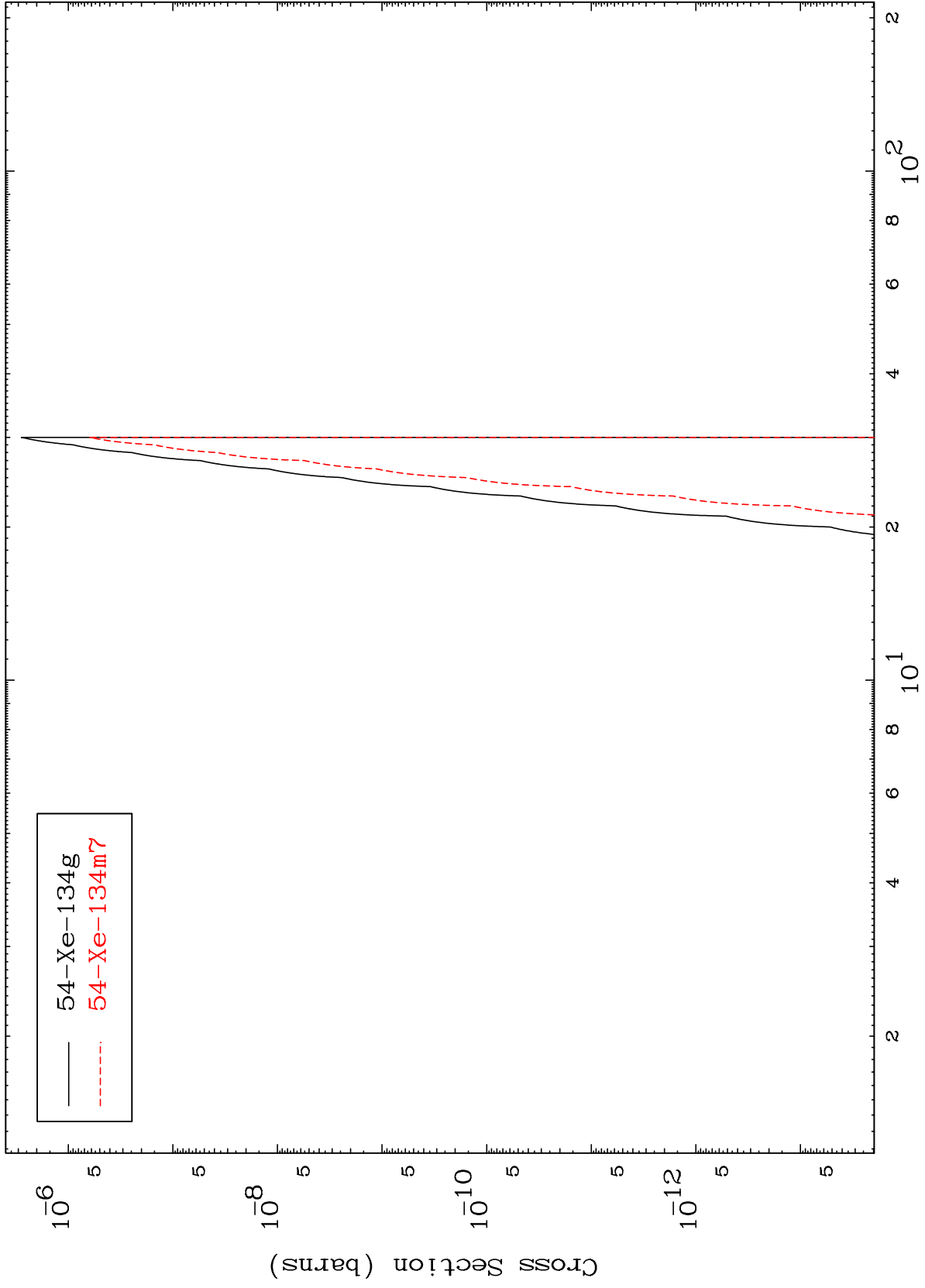
58-Ce-142

MAT 5843

(n,n') 2α

58-Ce-142

Radionuclide Production Cross Section



54-Xe-134g
54-Xe-134m7

131

Incident Energy (MeV)

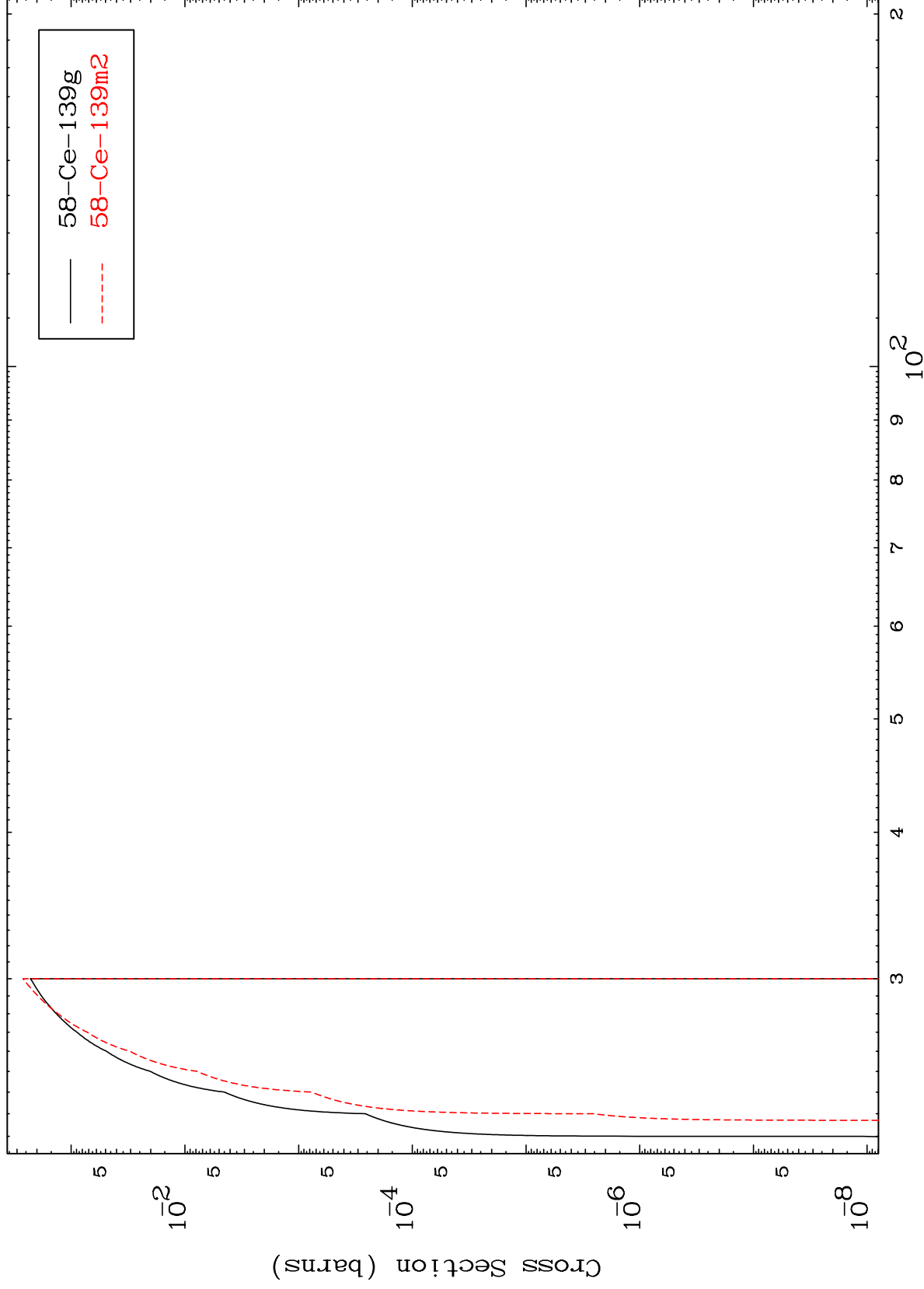
58-Ce-142

MAT 5843

(n,4n)

58-Ce-142

Radionuclide Production Cross Section



132

Incident Energy (MeV)

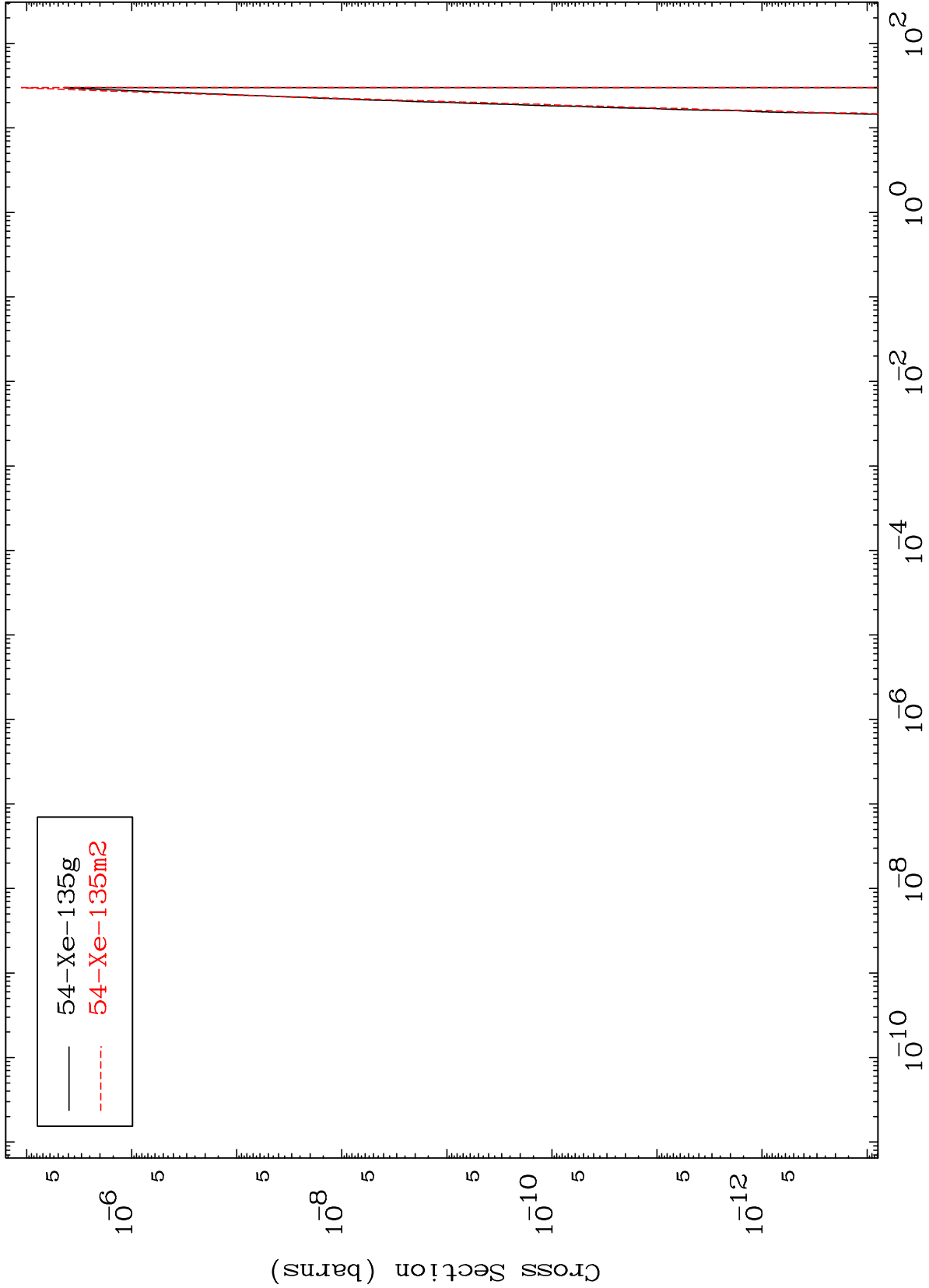
58-Ce-142

MAT 5843

(n,2α)

58-Ce-142

Radionuclide Production Cross Section

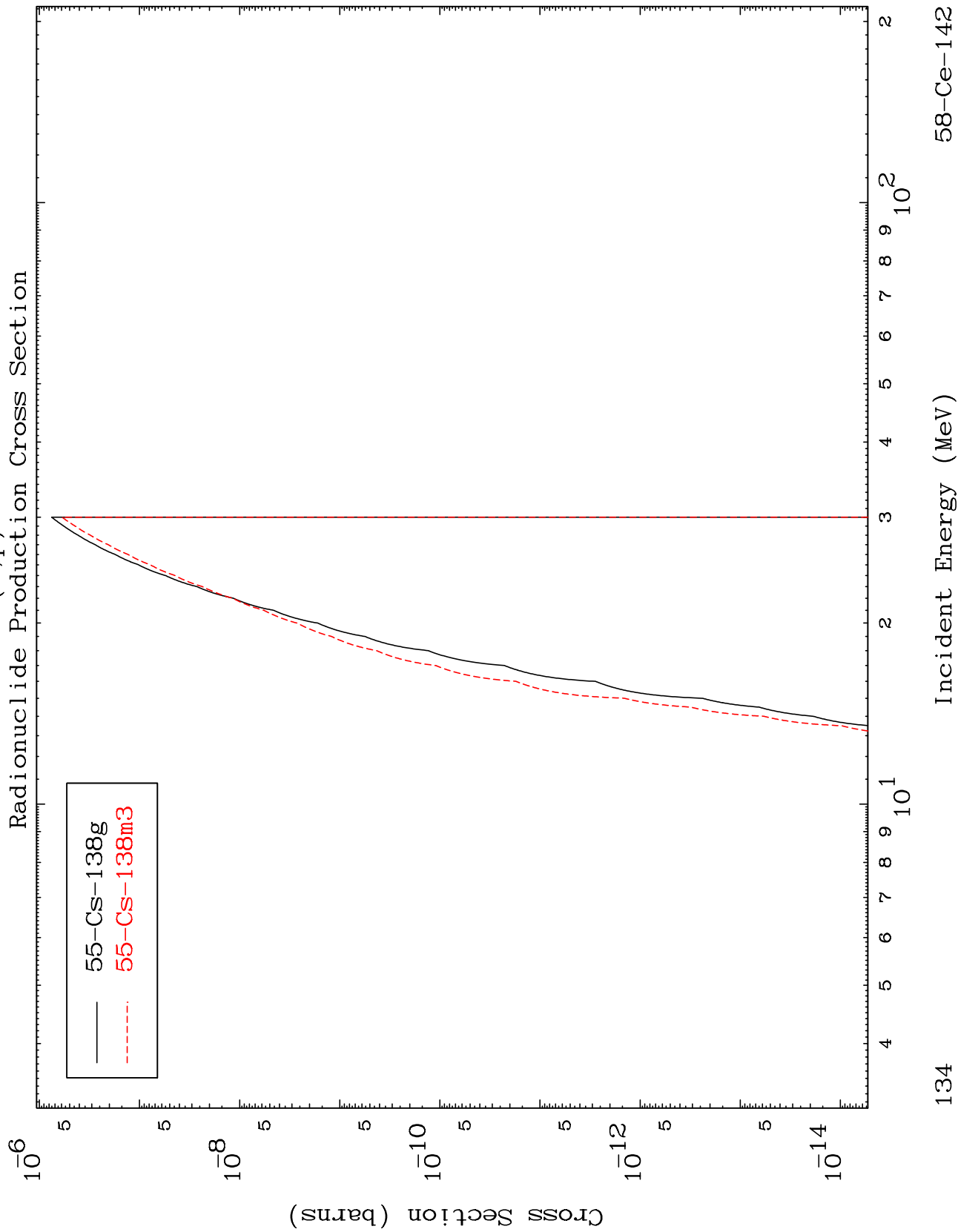


54-Xe-135g
54-Xe-135m2

MAT 5843

(n,p) α

58-Ce-142



134

58-Ce-142