

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
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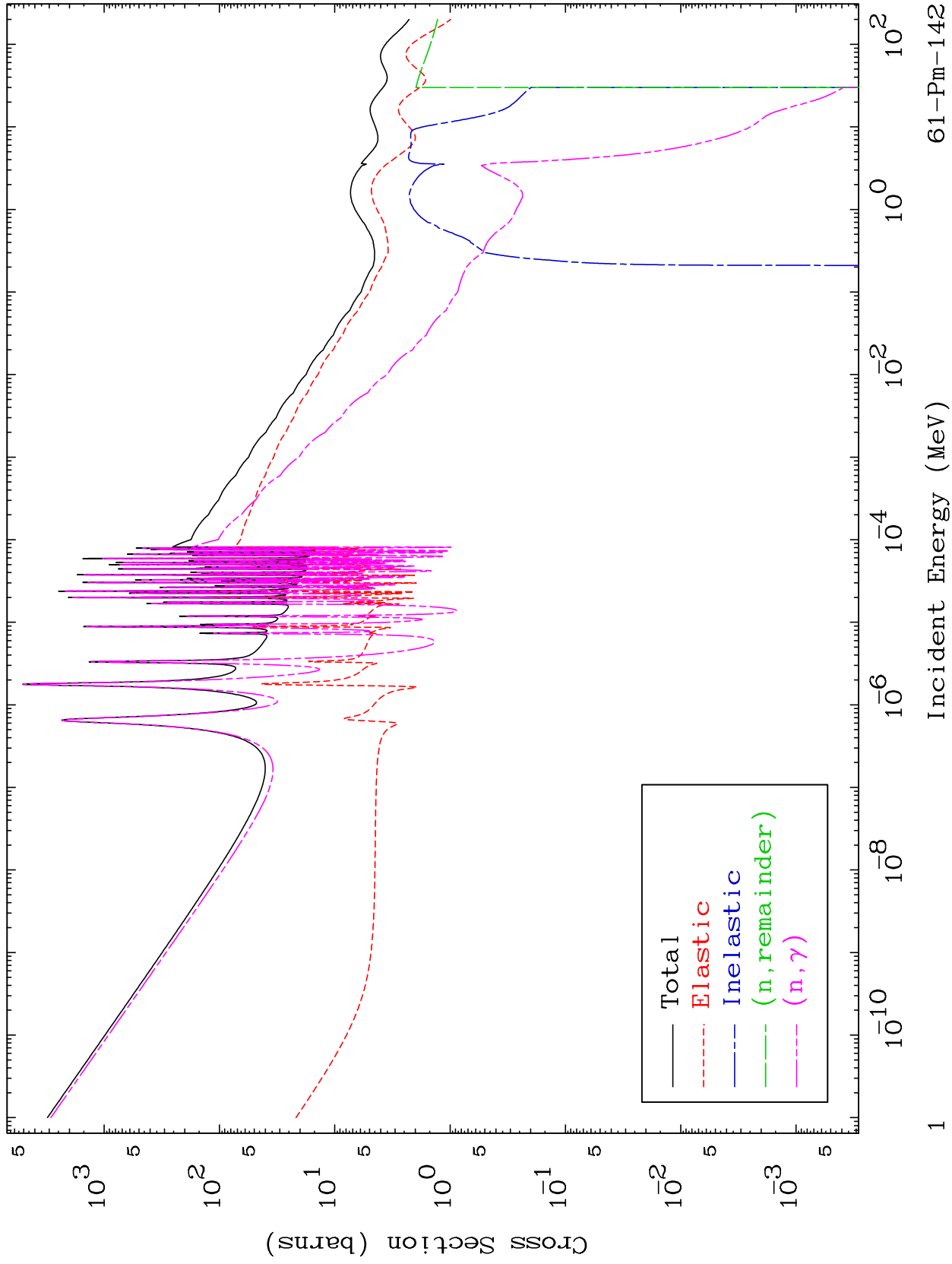
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6134

Major
293 Kelvin Cross Sections

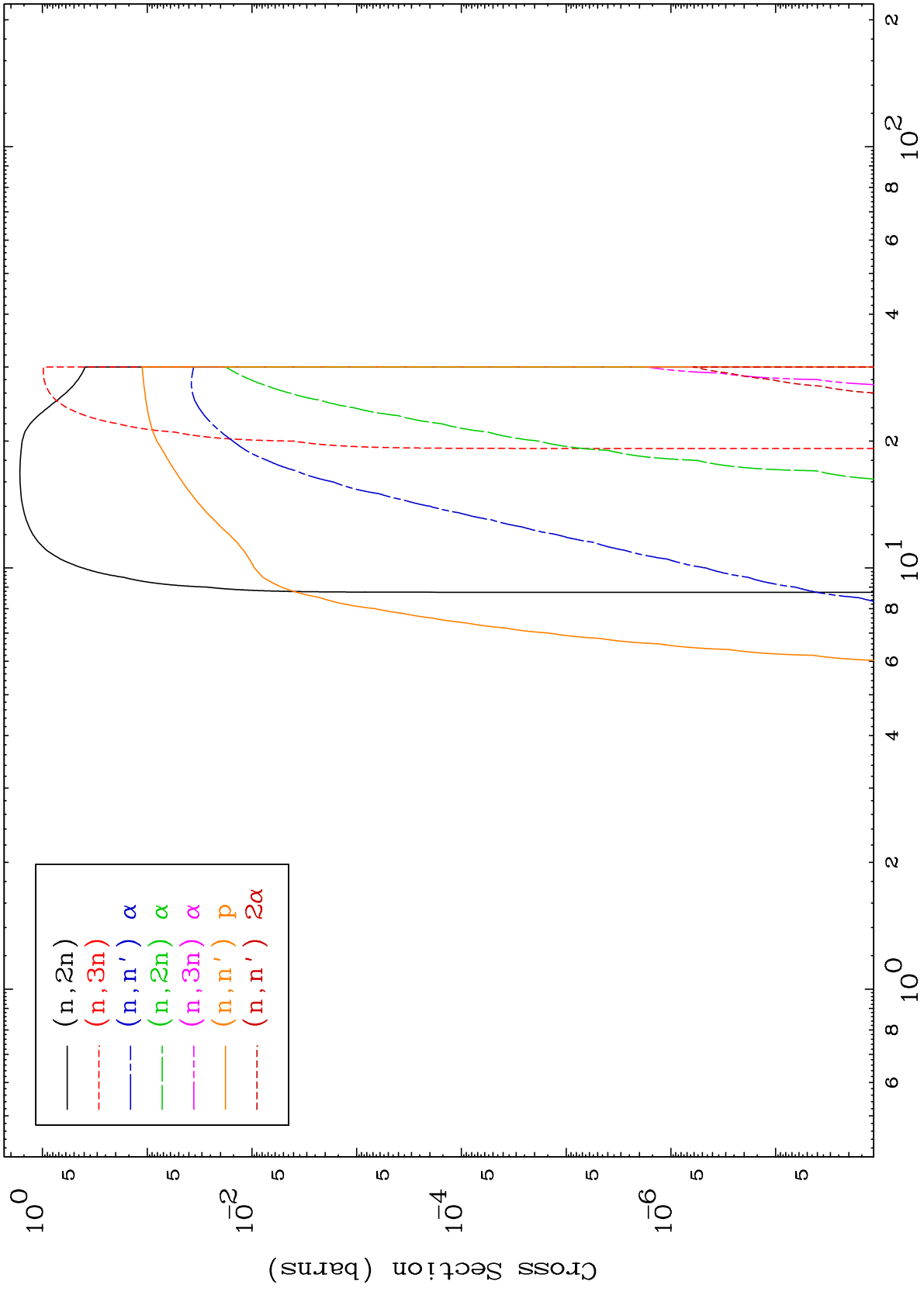
61-Pm-142



MAT 6134

Neutron Production
293 Kelvin Cross Sections

61-Pm-142



2

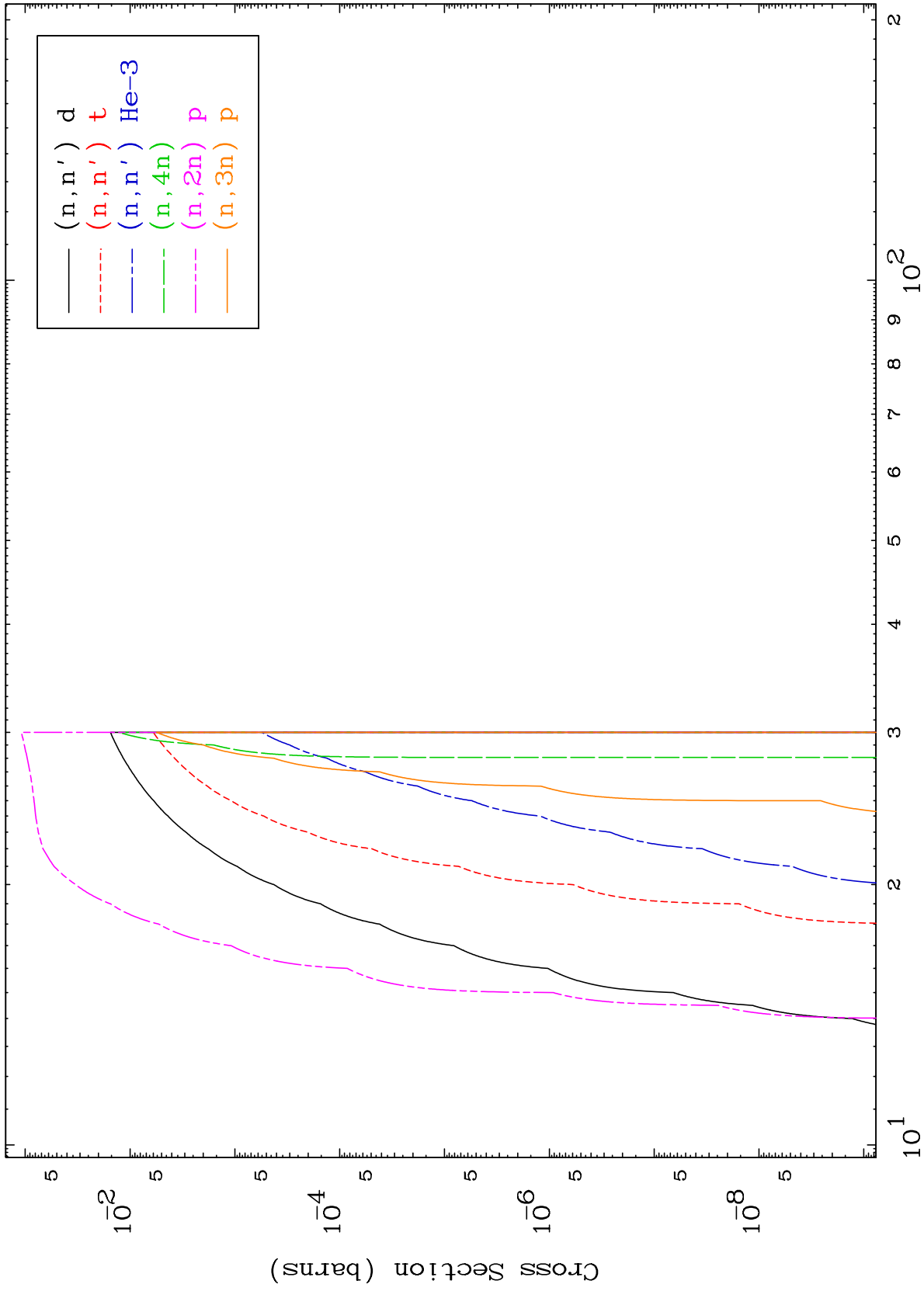
Incident Energy (MeV)

61-Pm-142

MAT 6134

Neutron Production
293 Kelvin Cross Sections

61-Pm-142



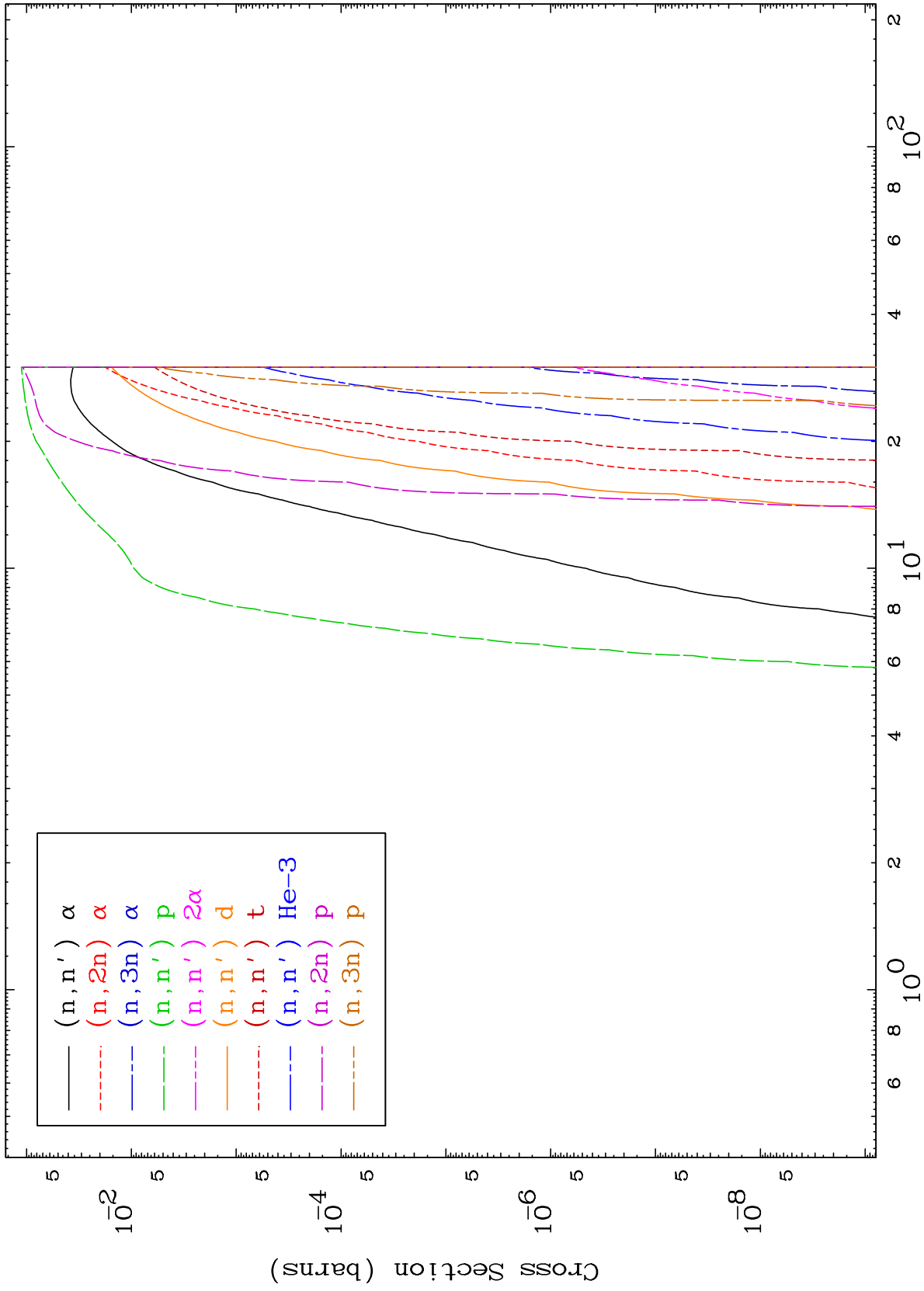
Incident Energy (MeV)

61-Pm-142

MAT 6134

293 Kelvin Cross Sections

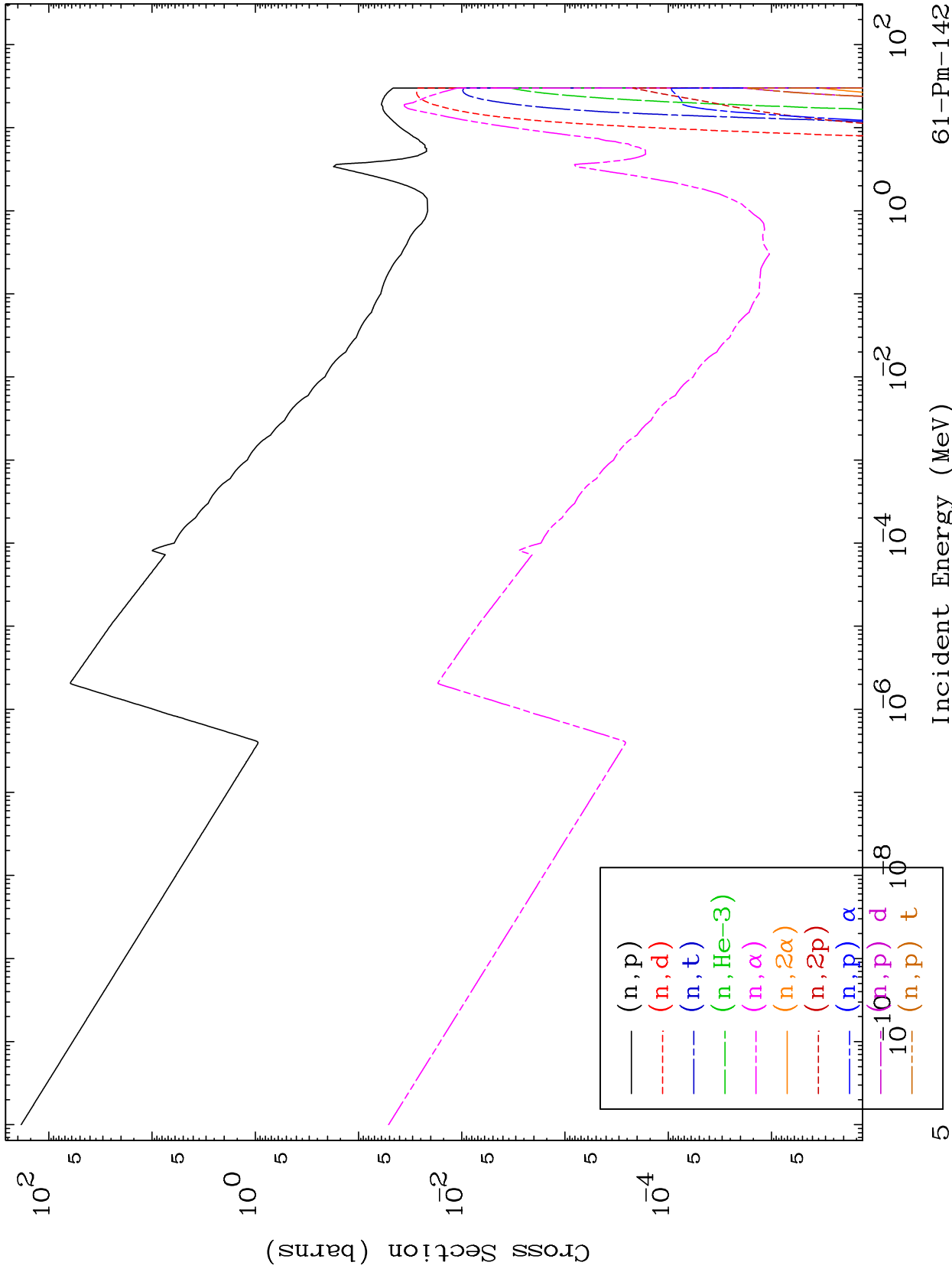
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MAT 6134

Charged Particle
293 Kelvin Cross Sections

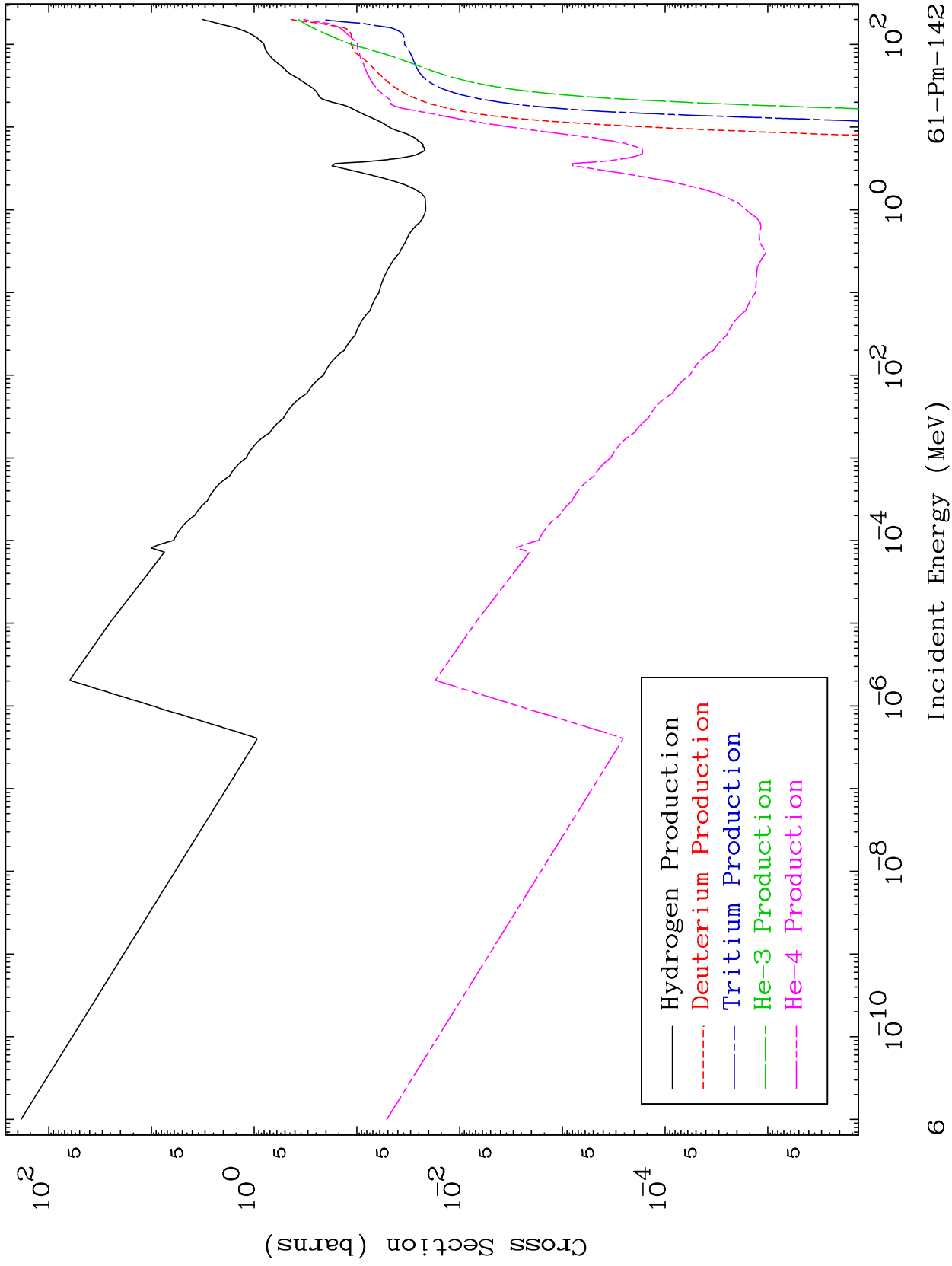
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MAT 6134

Particle Production
293 Kelvin Cross Sections

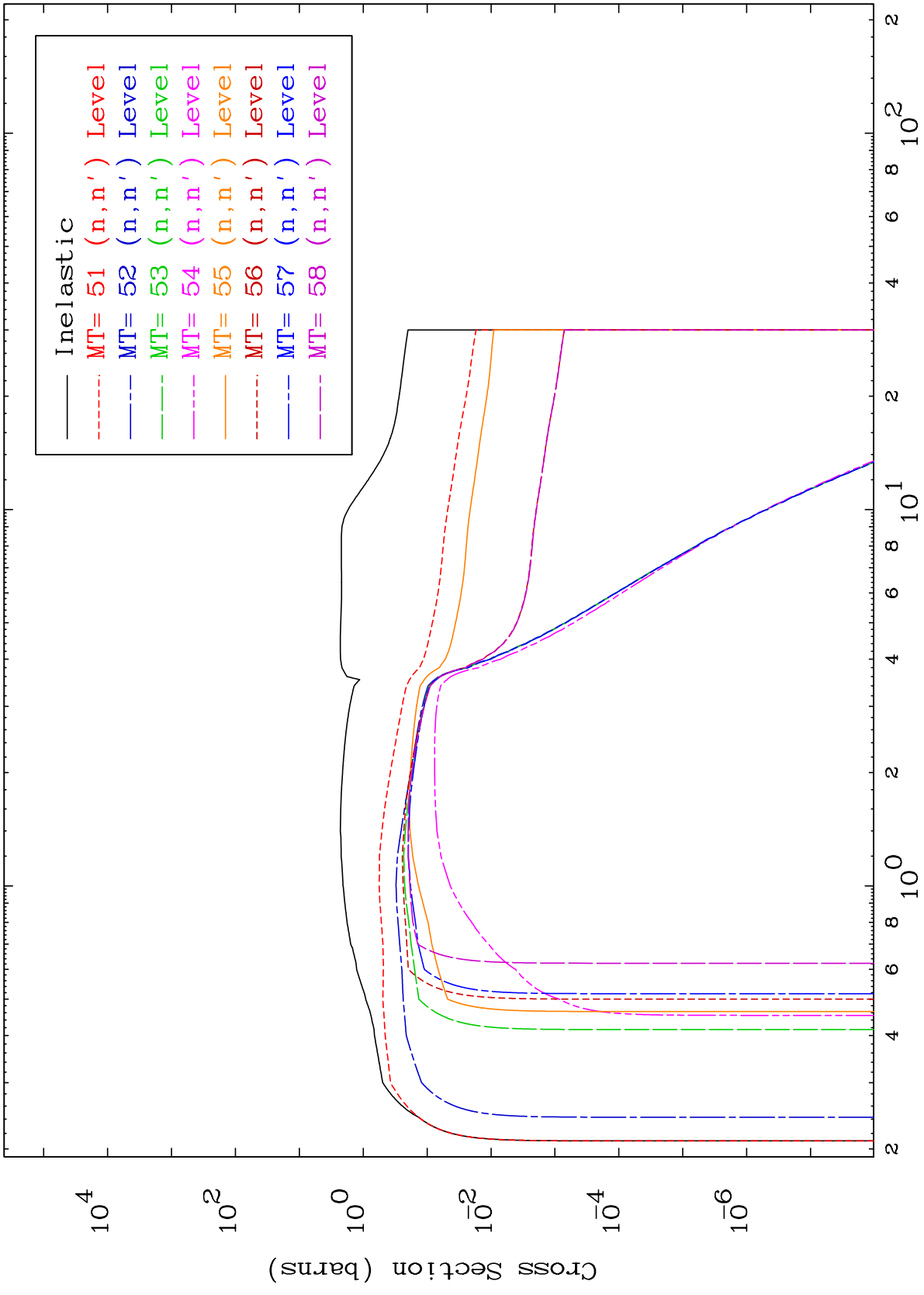
61-Pm-142



MAT 6134

(n,n') Level
293 Kelvin Cross Sections

61-Pm-142



7

Incident Energy (MeV)

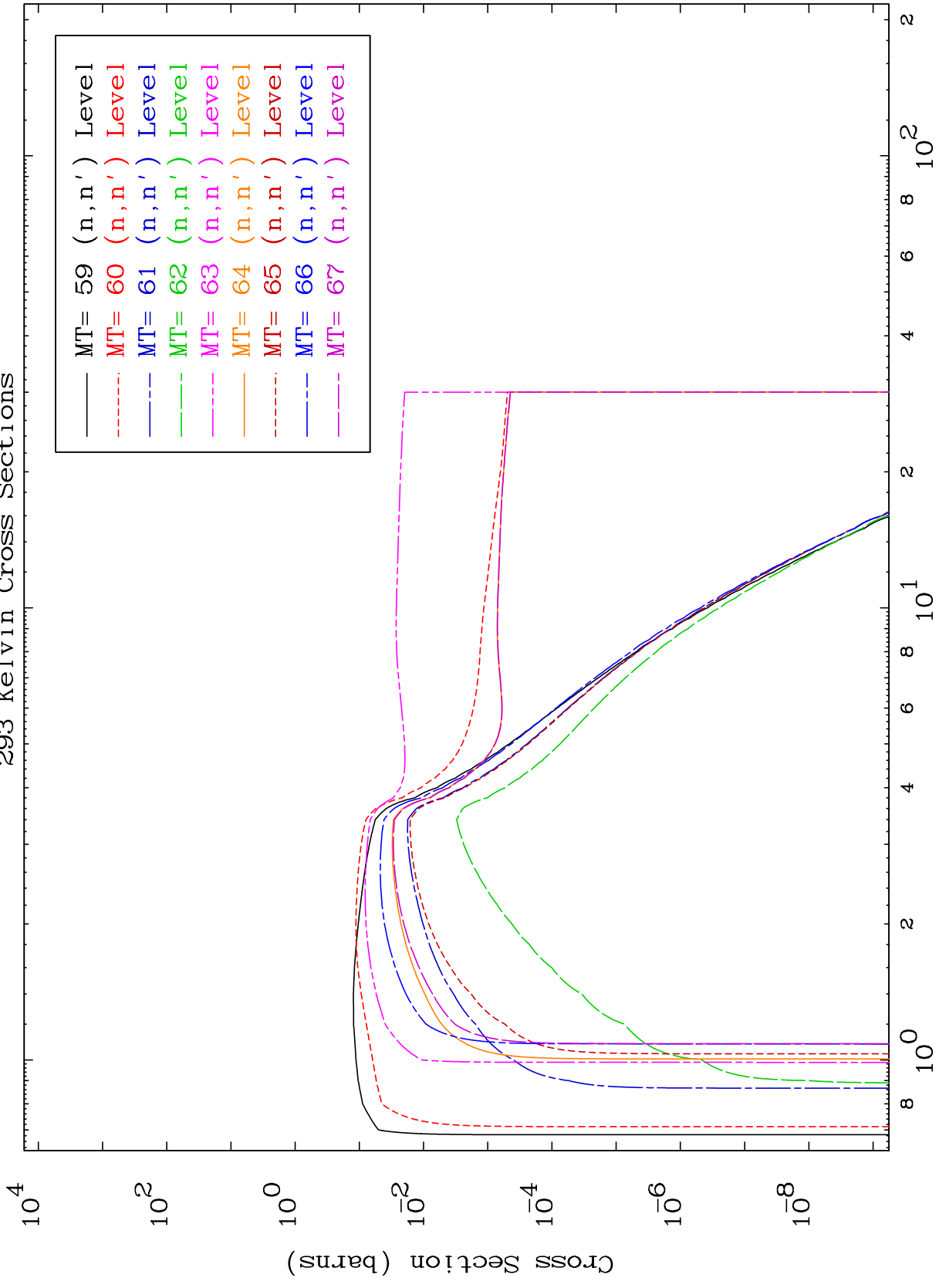
61-Pm-142

MAT 6134

(n,n') Level

61-Pm-142

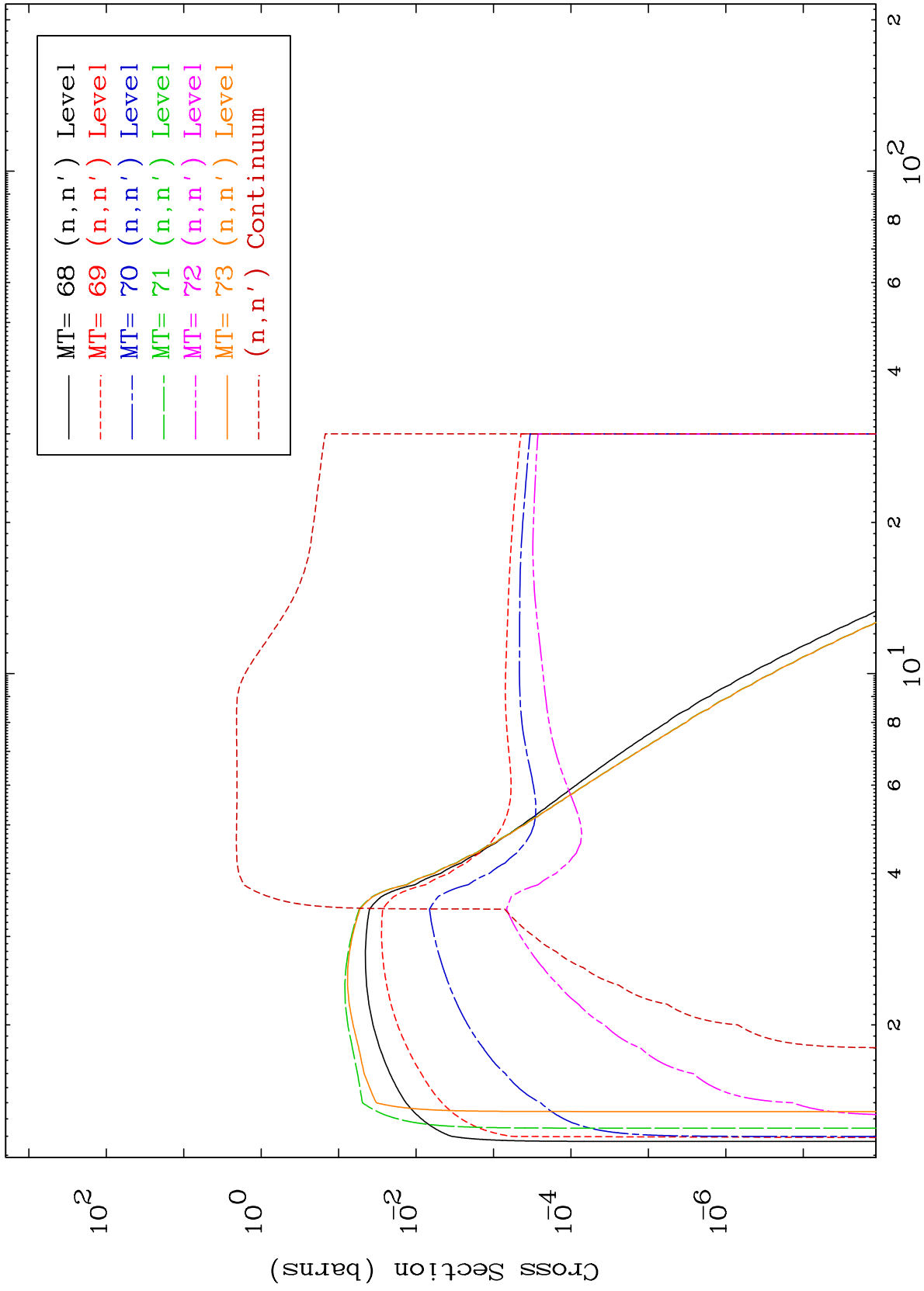
293 Kelvin Cross Sections



8

Incident Energy (MeV)

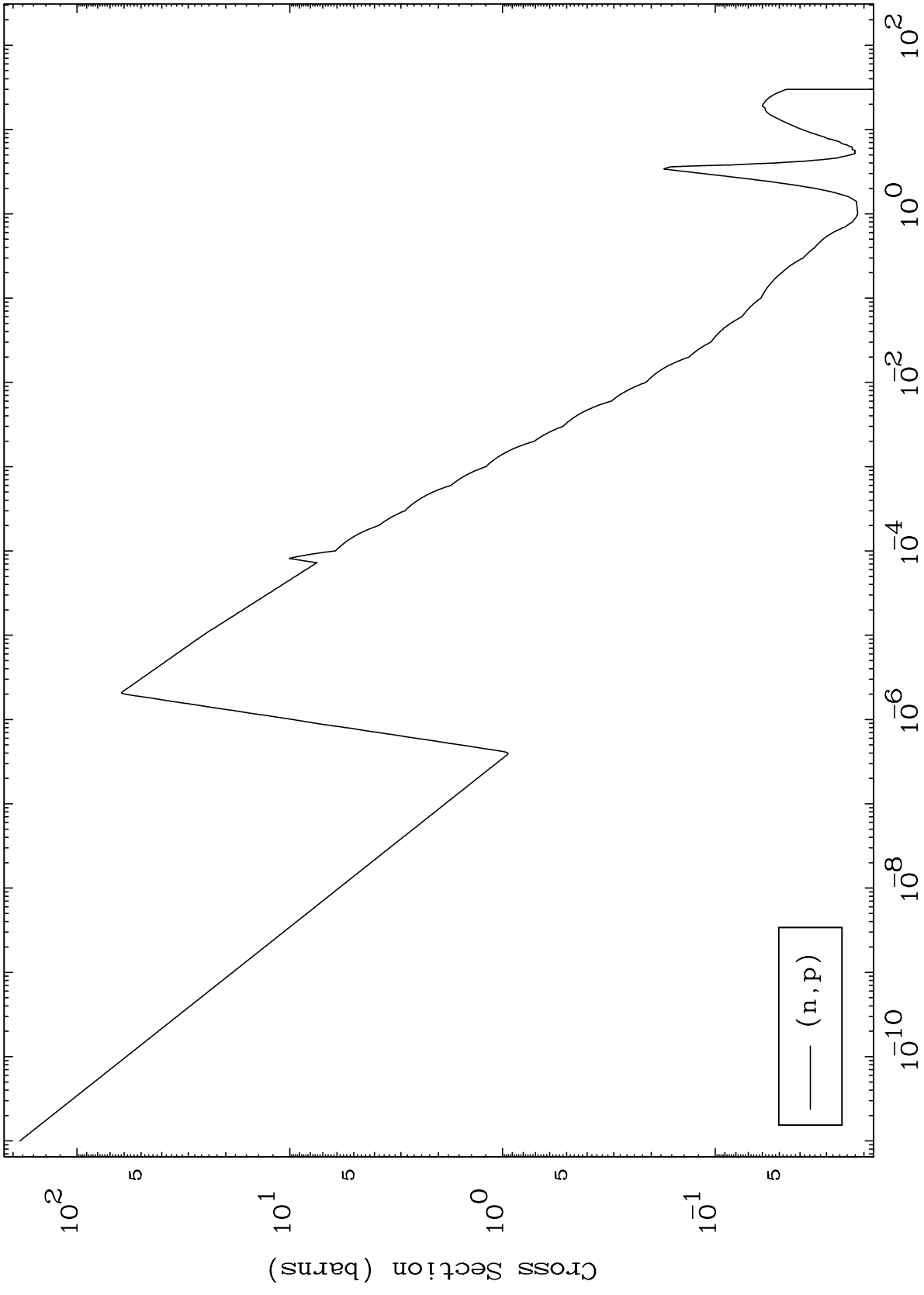
61-Pm-142



MAT 6134

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-142



10

Incident Energy (MeV)

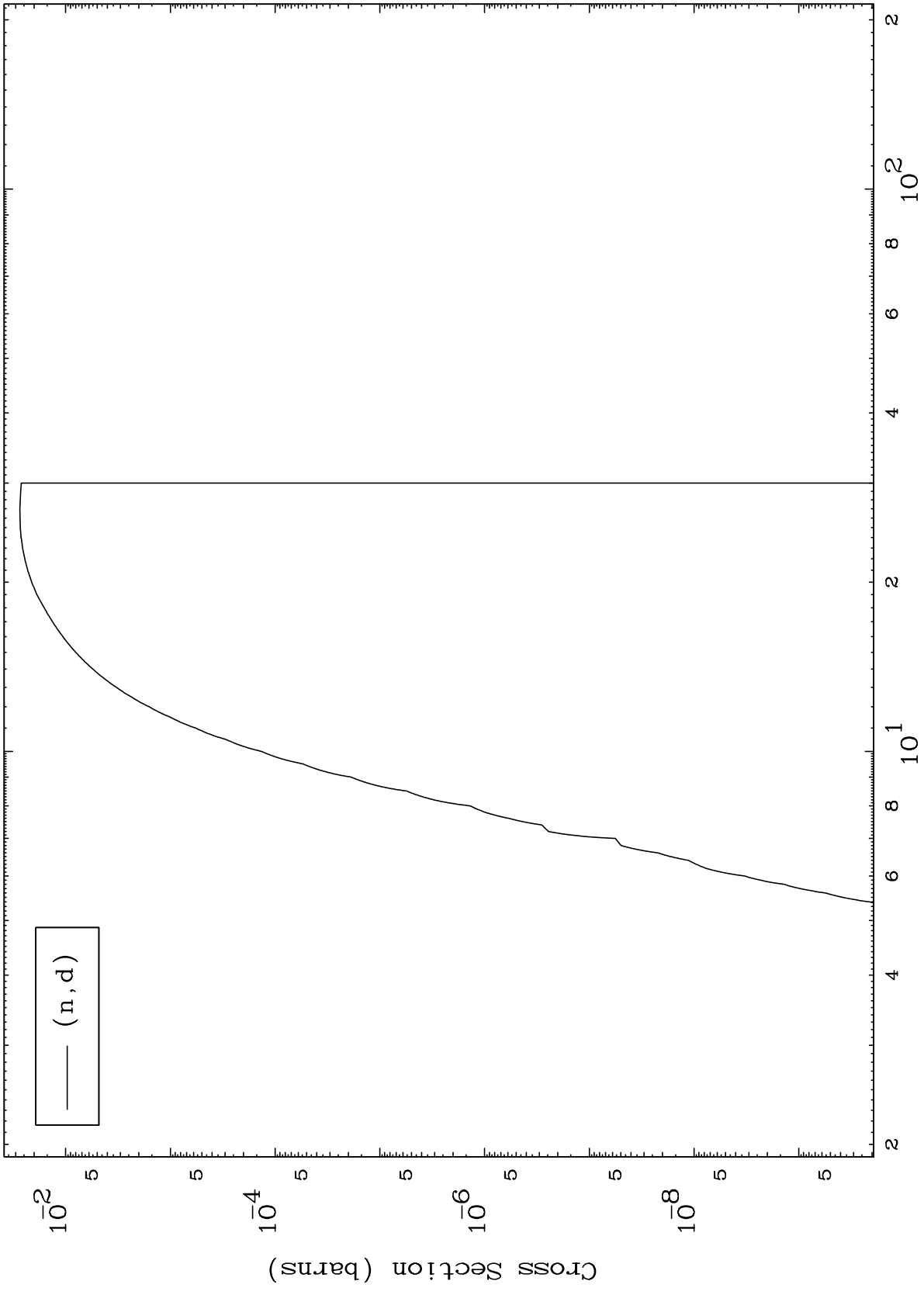
61-Pm-142

— (n, p)

MAT 6134

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-142



11

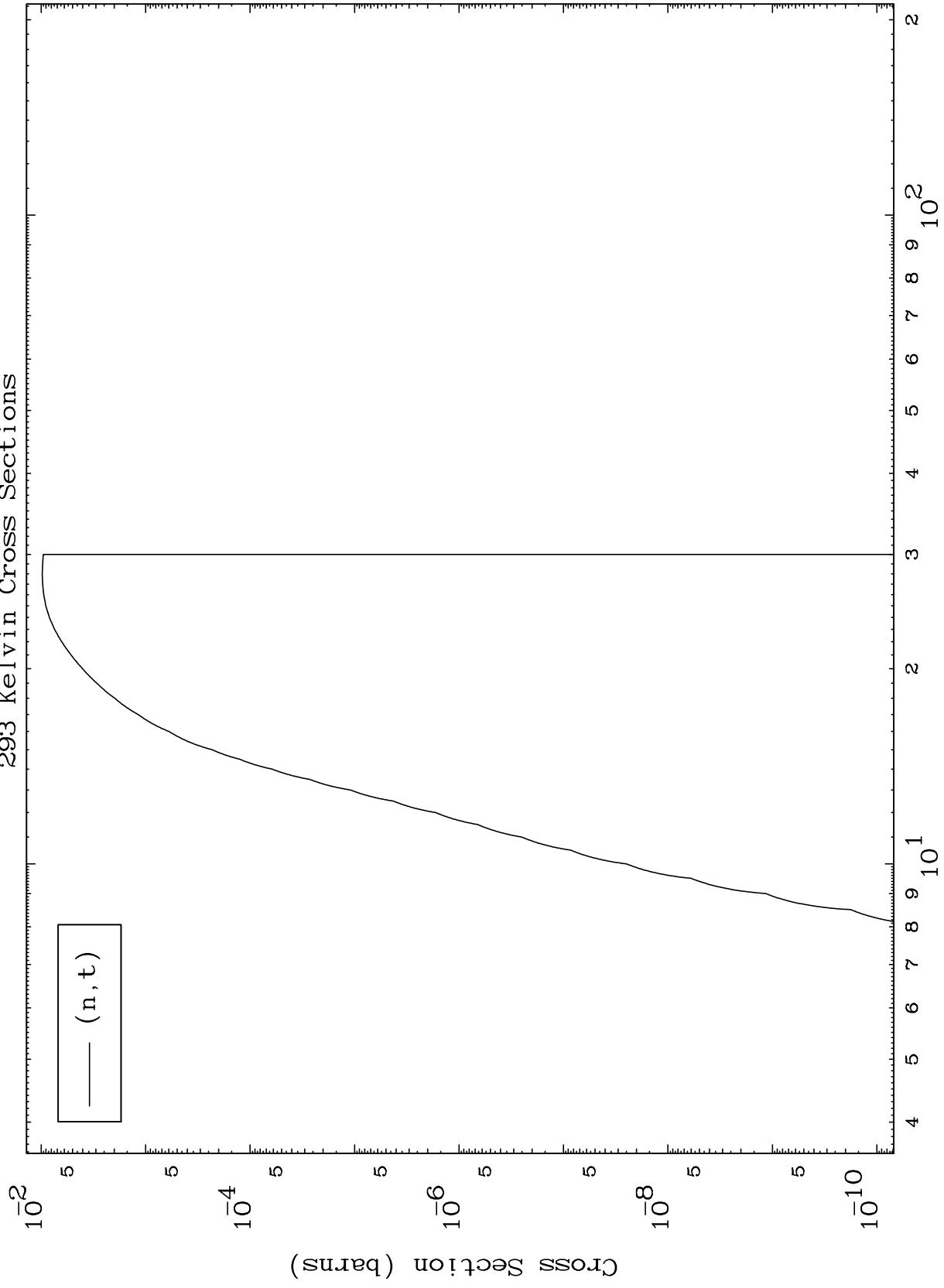
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61-Pm-142

MAT 6134

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-142



12

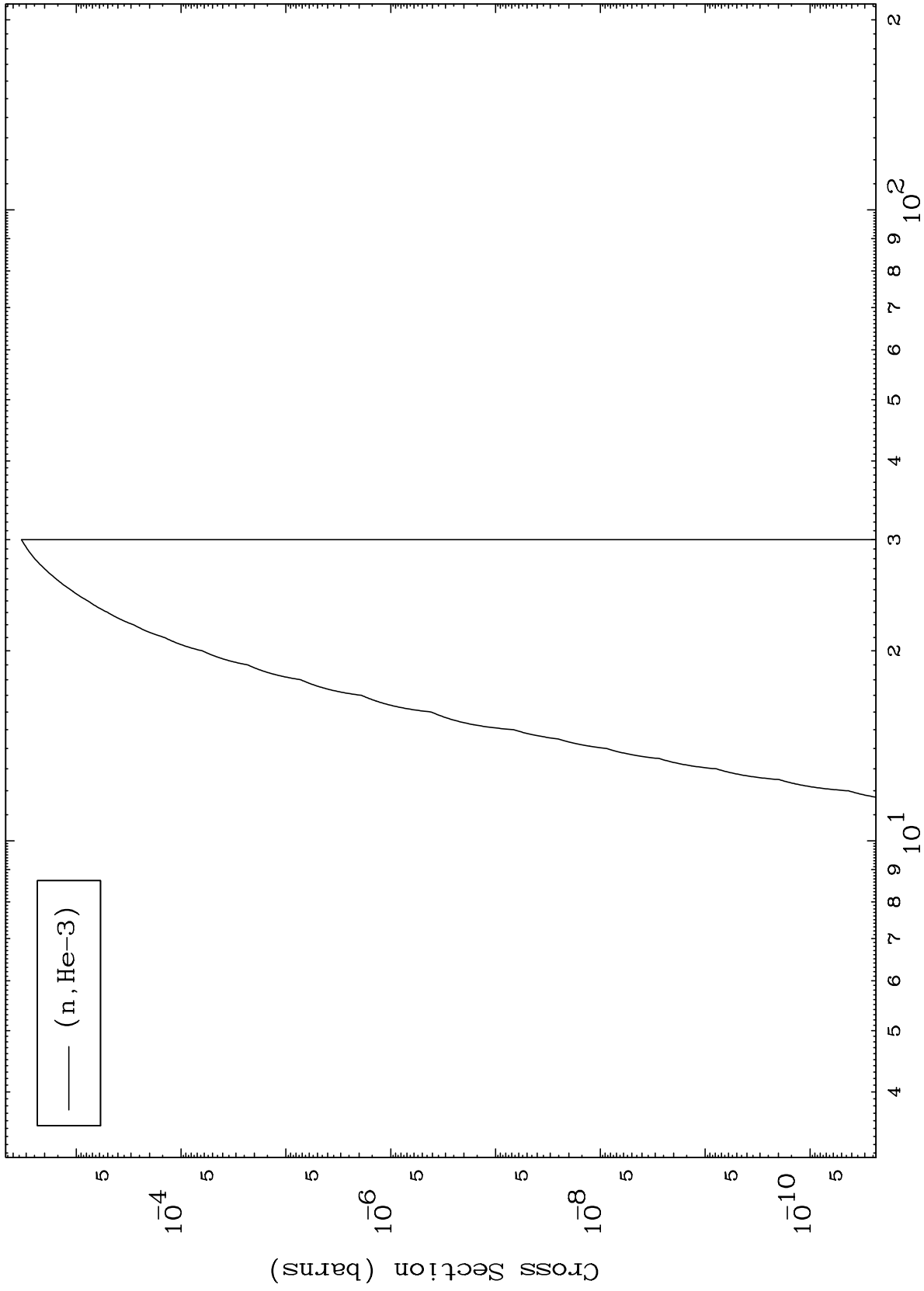
Incident Energy (MeV)

61-Pm-142

MAT 6134

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-142



13

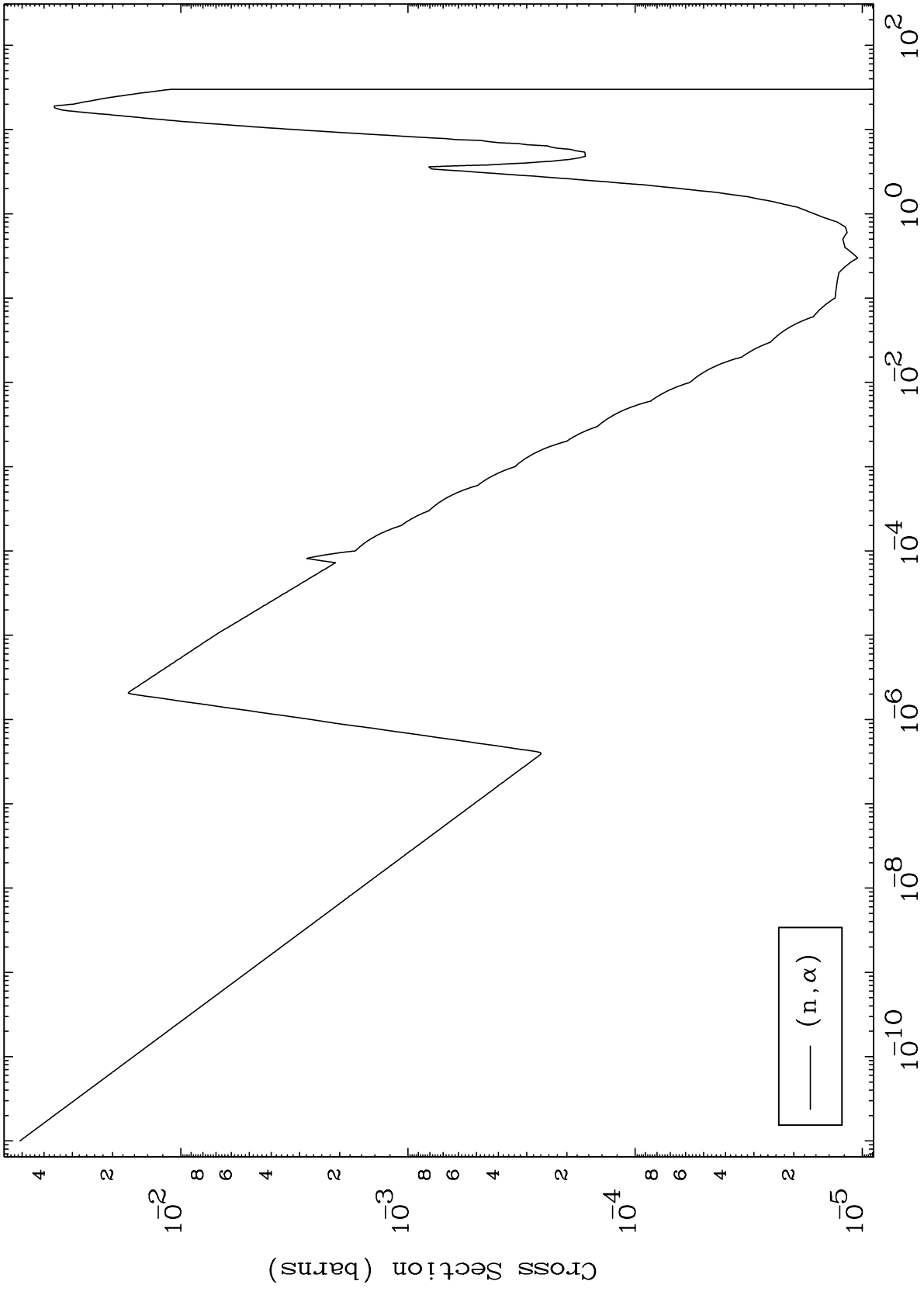
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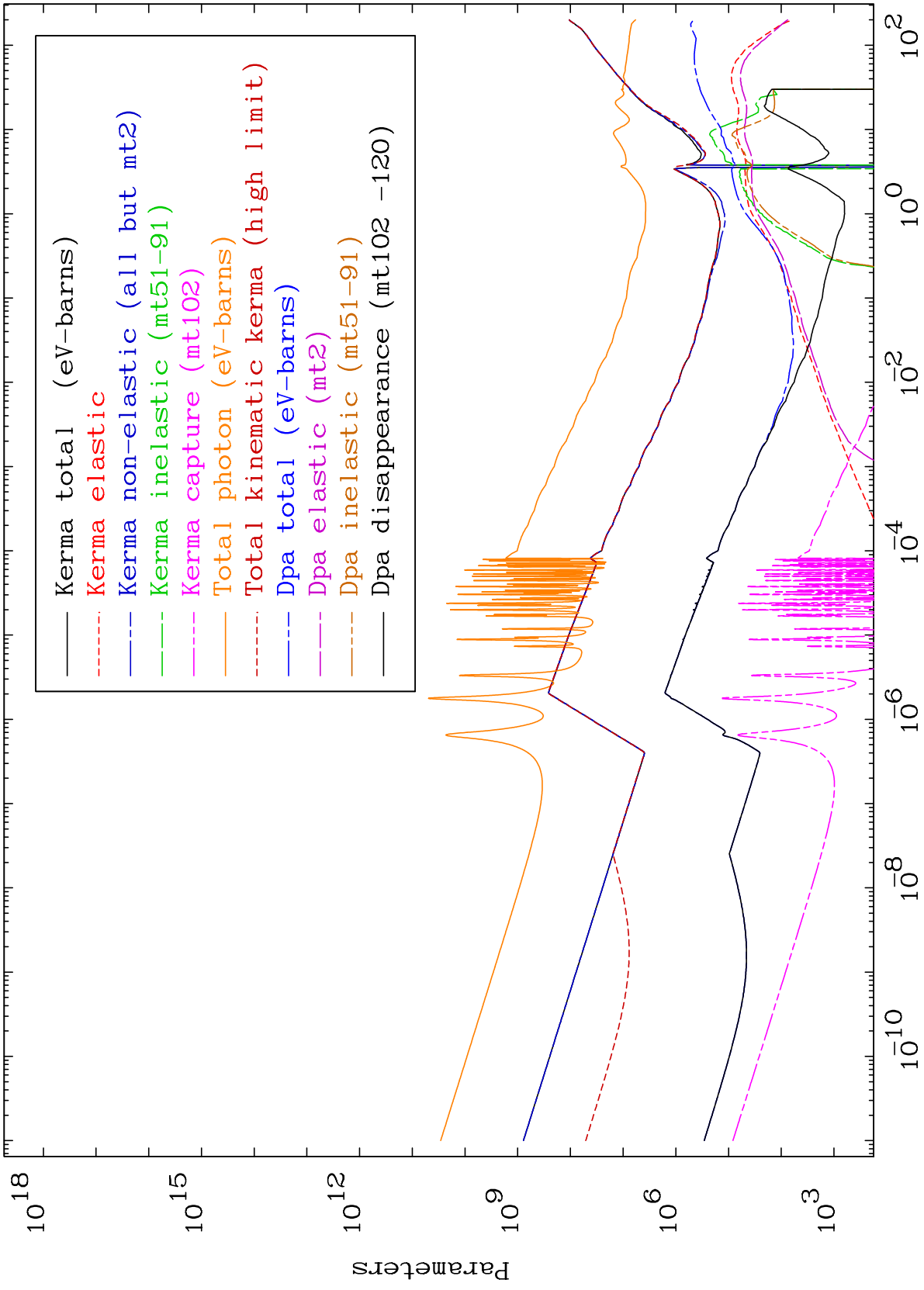
61-Pm-142

MAT 6134

(n,α) Levels
293 Kelvin Cross Sections

61-Pm-142

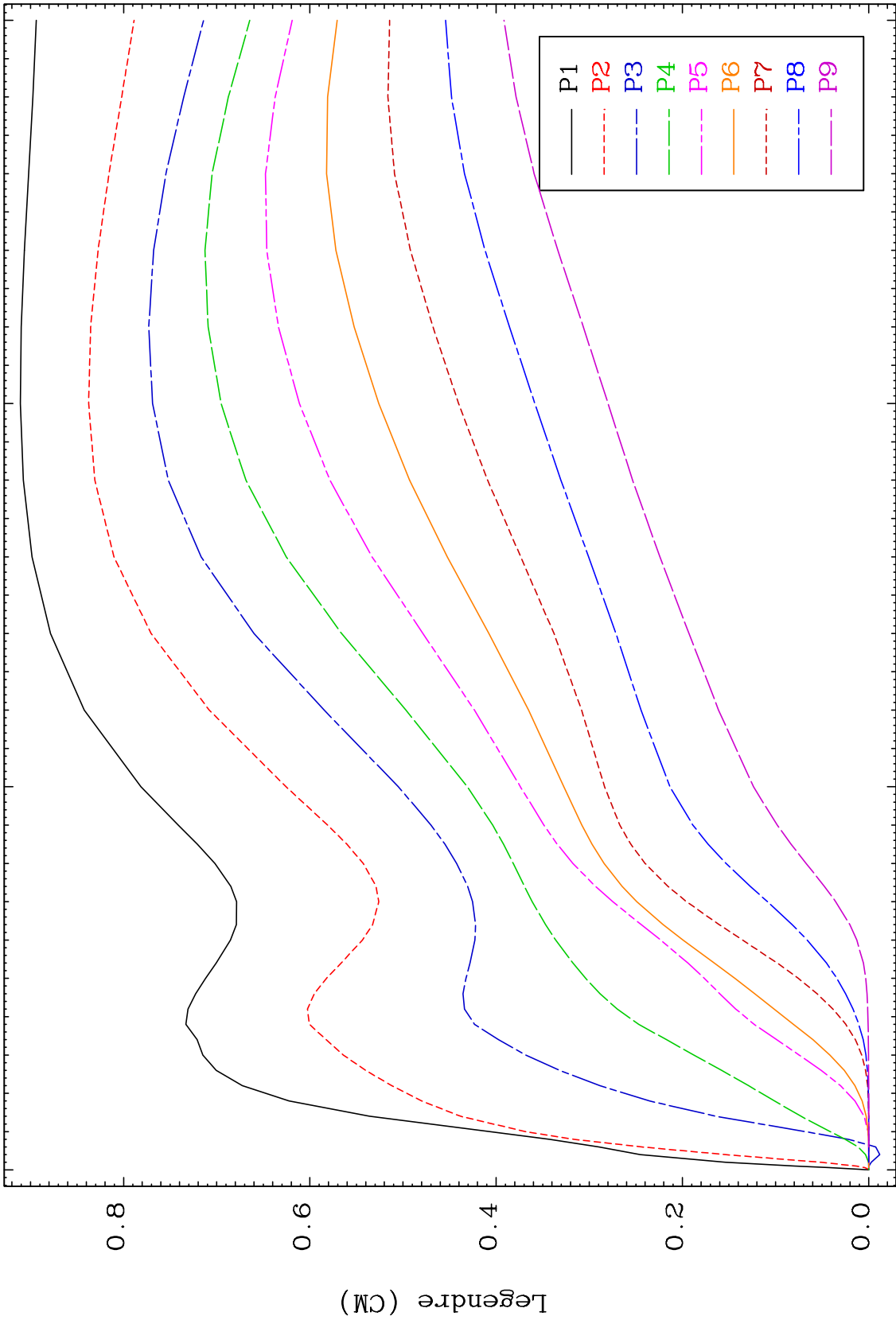




MAT 6134

Elastic Legendre Coefficients

61-Pm-142



16

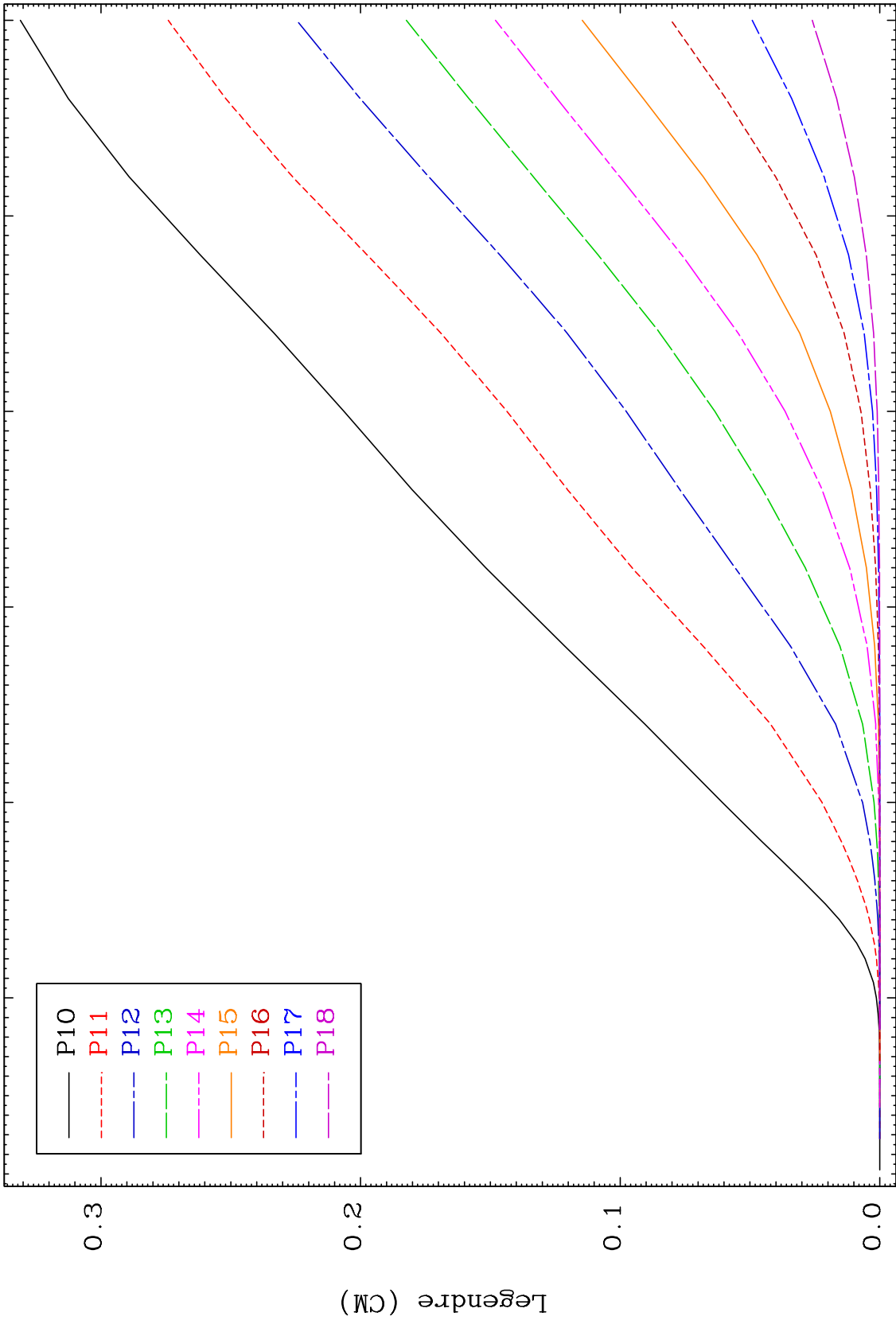
Incident Energy (MeV)

61-Pm-142

MAT 6134

Elastic Legendre Coefficients

61-Pm-142



17

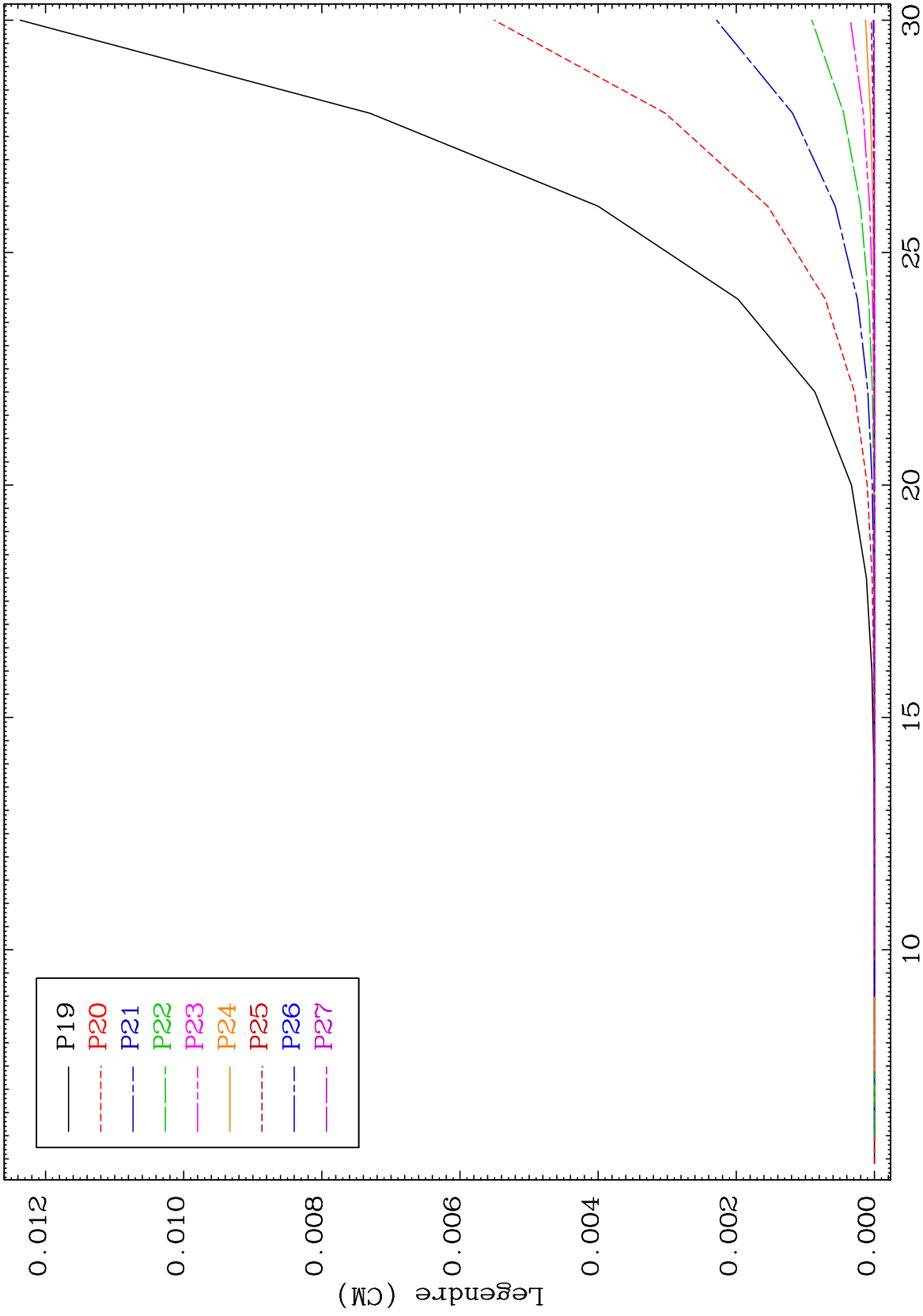
Incident Energy (MeV)

61-Pm-142

MAT 6134

Elastic Legendre Coefficients

61-Pm-142



18

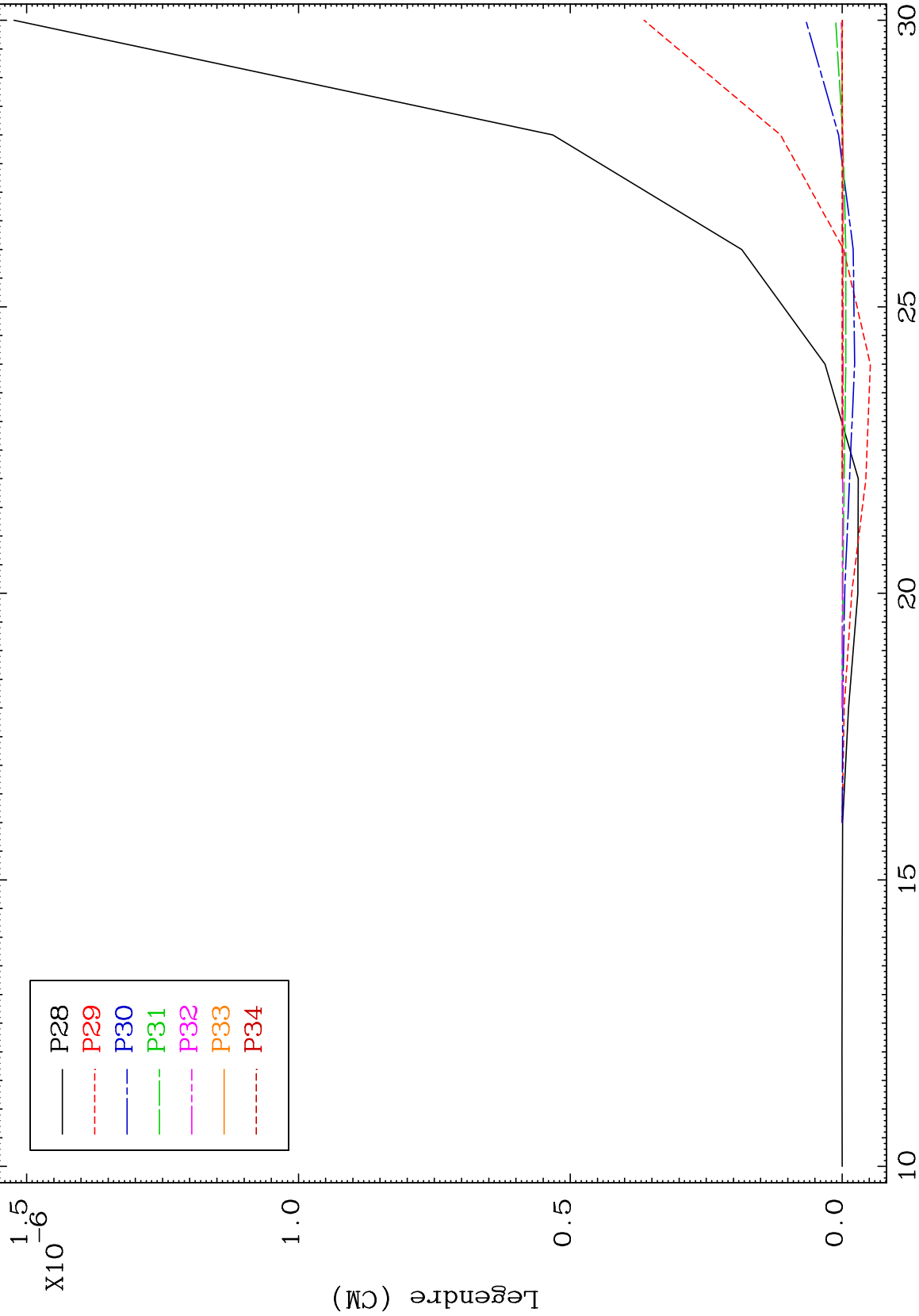
Incident Energy (MeV)

61-Pm-142

MAT 6134

Elastic Legendre Coefficients

61-Pm-142



19

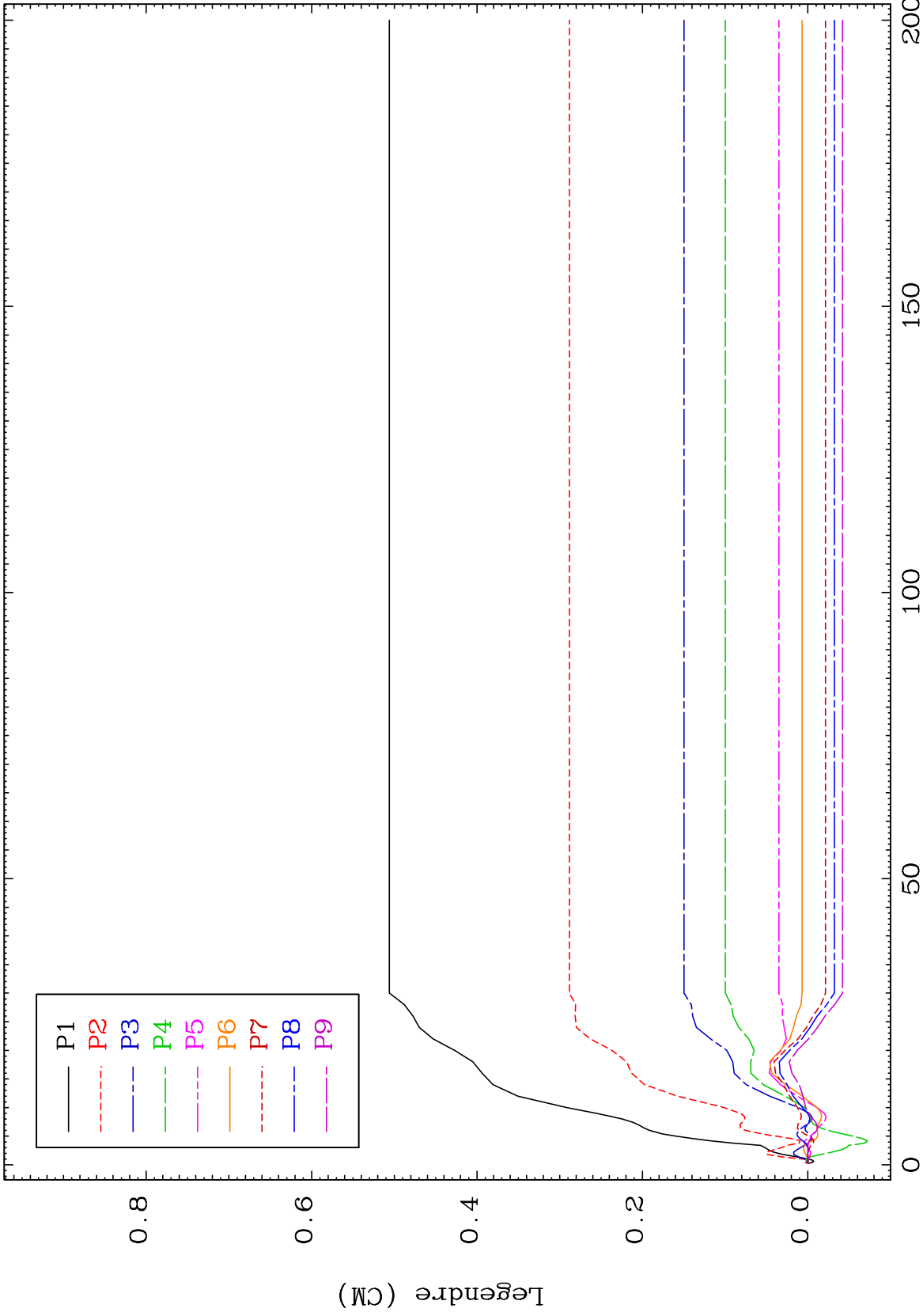
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



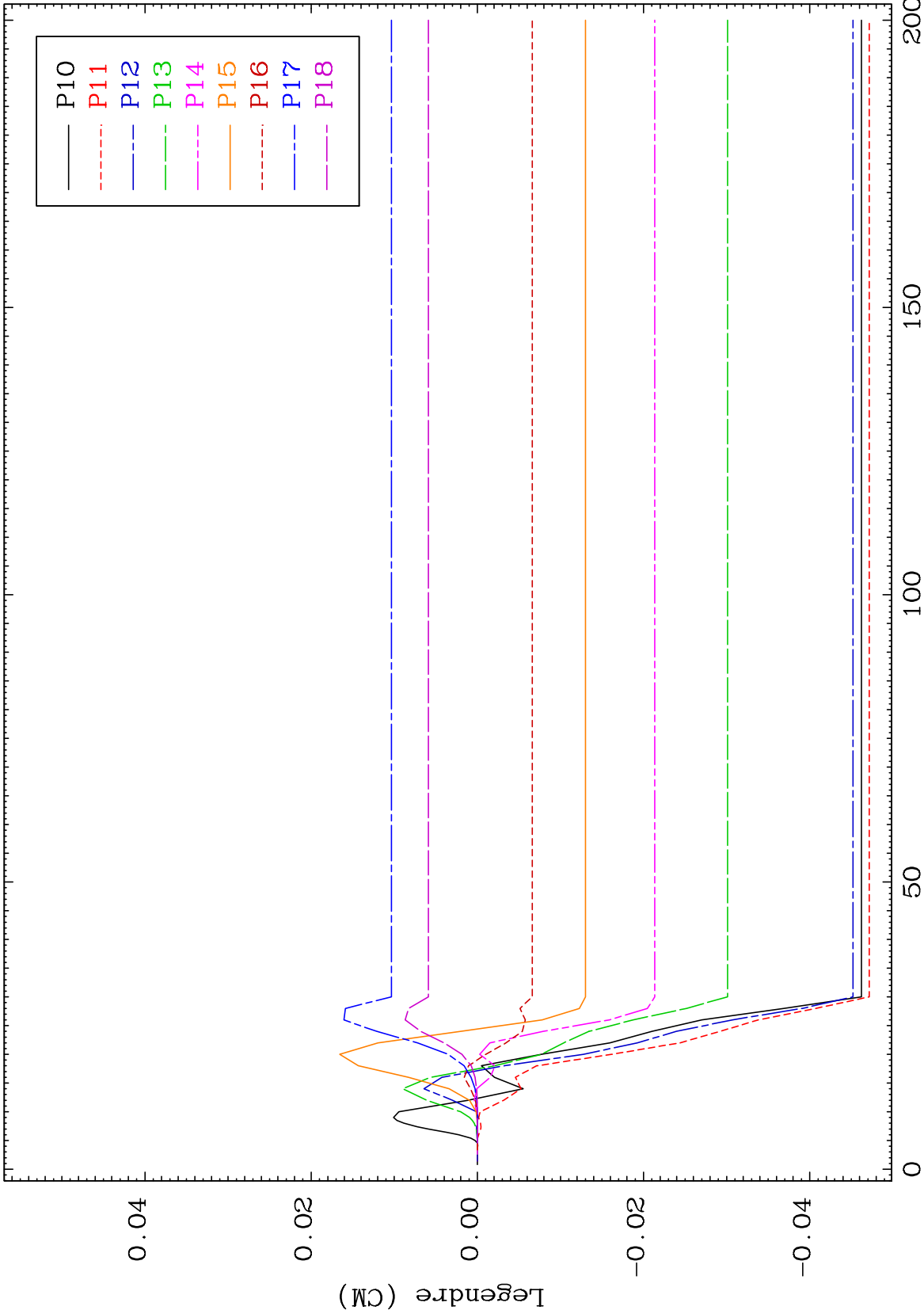
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Incident Energy (MeV)

MAT 6134

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

61-Pm-142



21

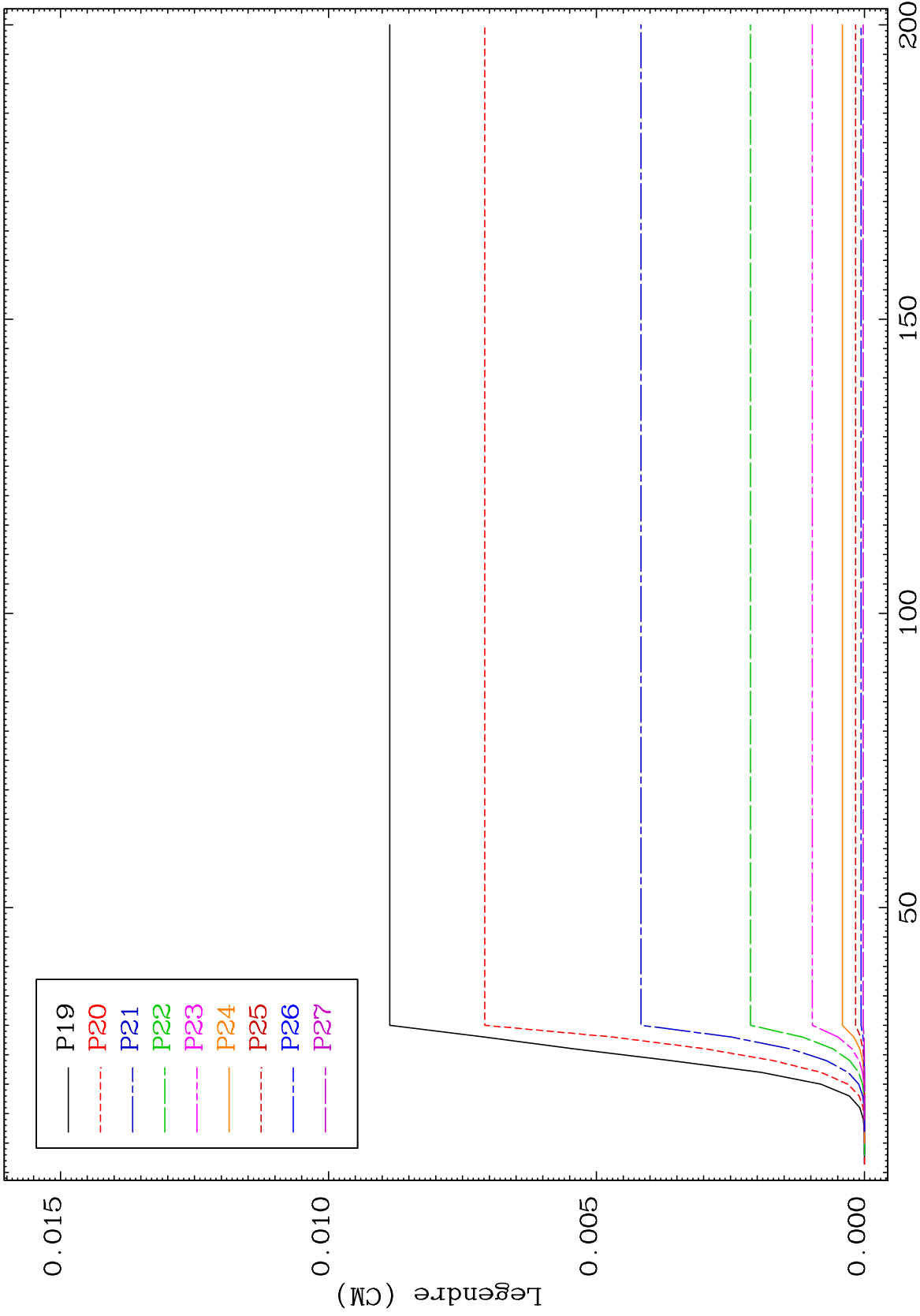
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



22

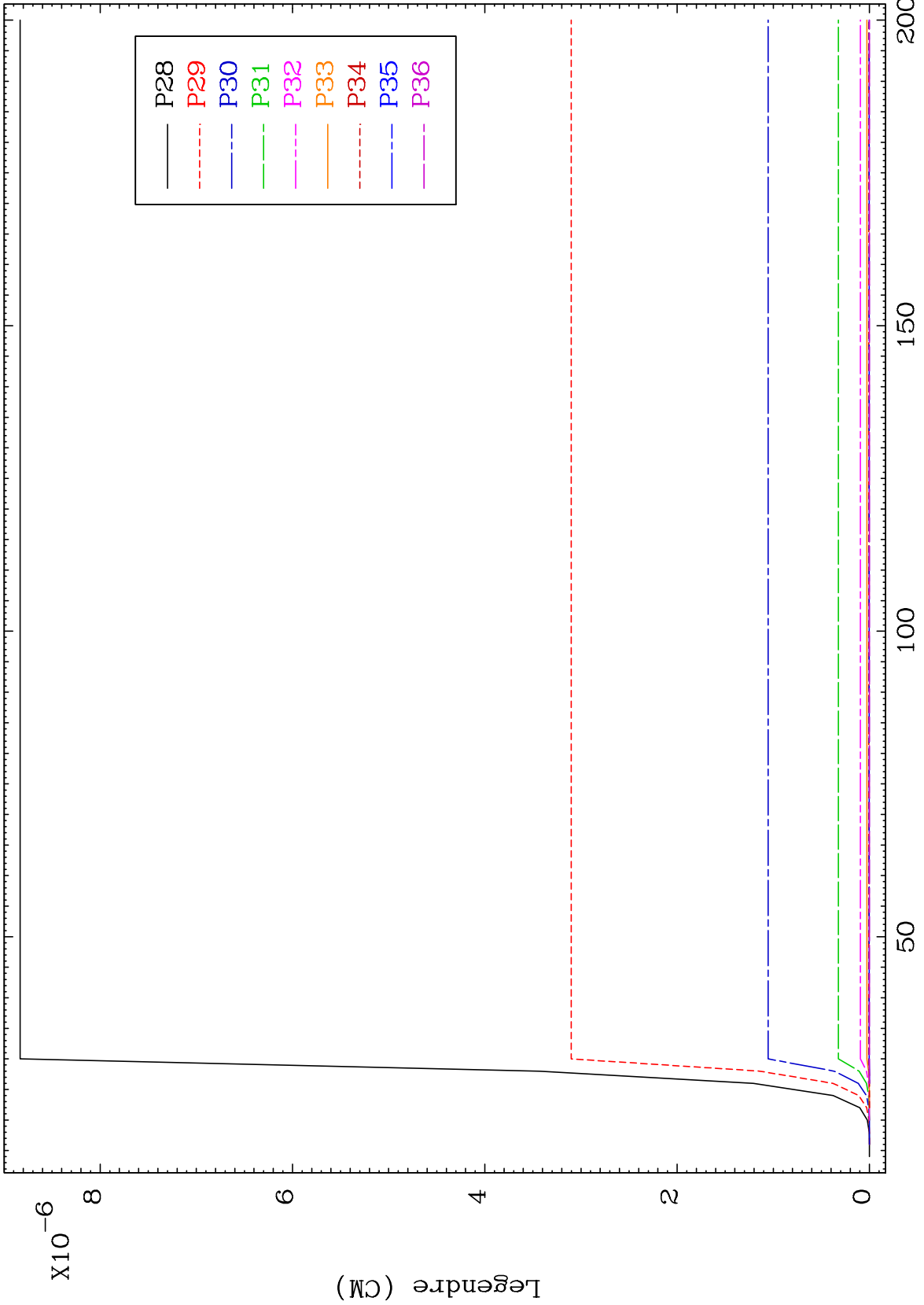
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



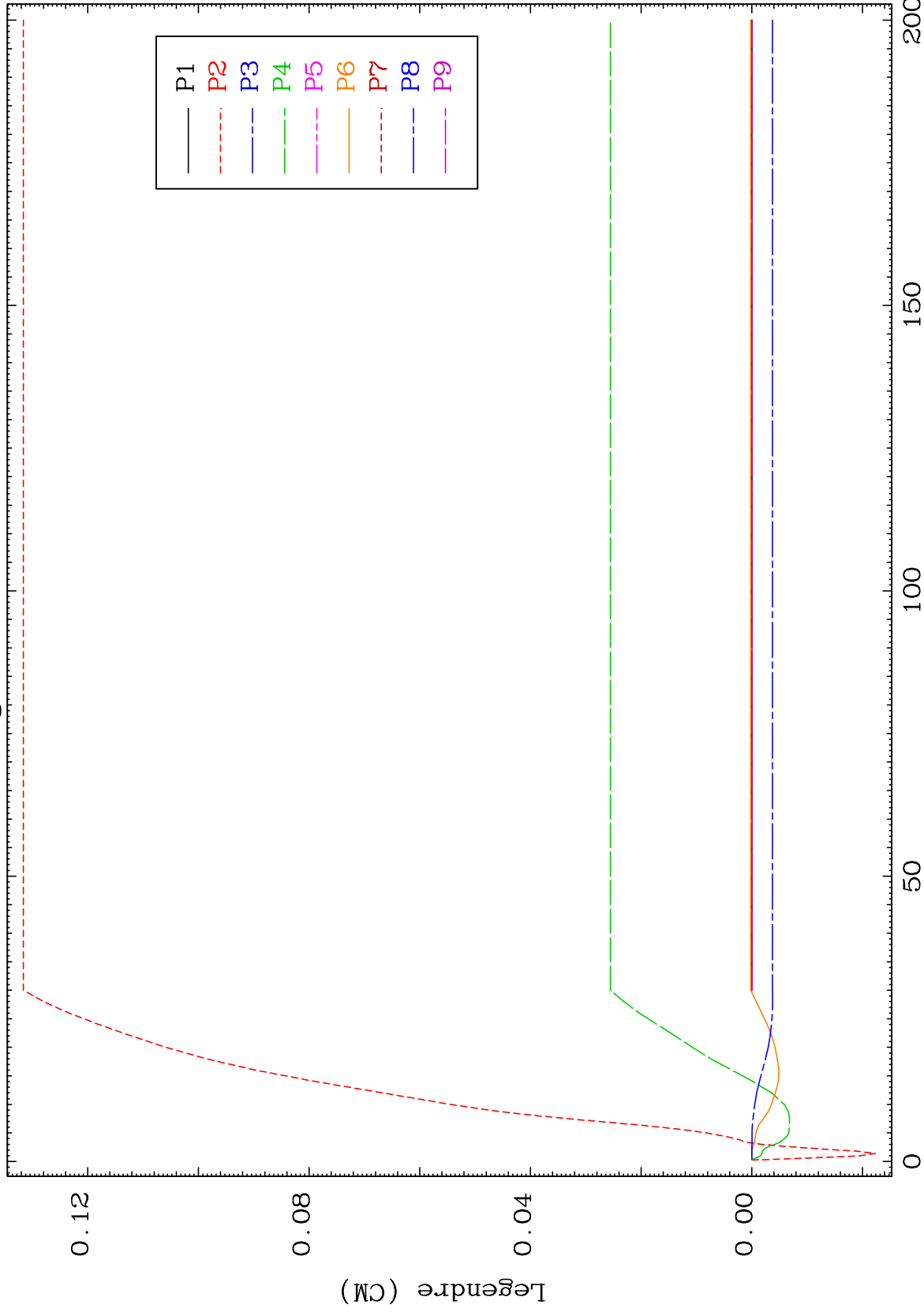
23

61-Pm-142

MAT 6134

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

61-Pm-142

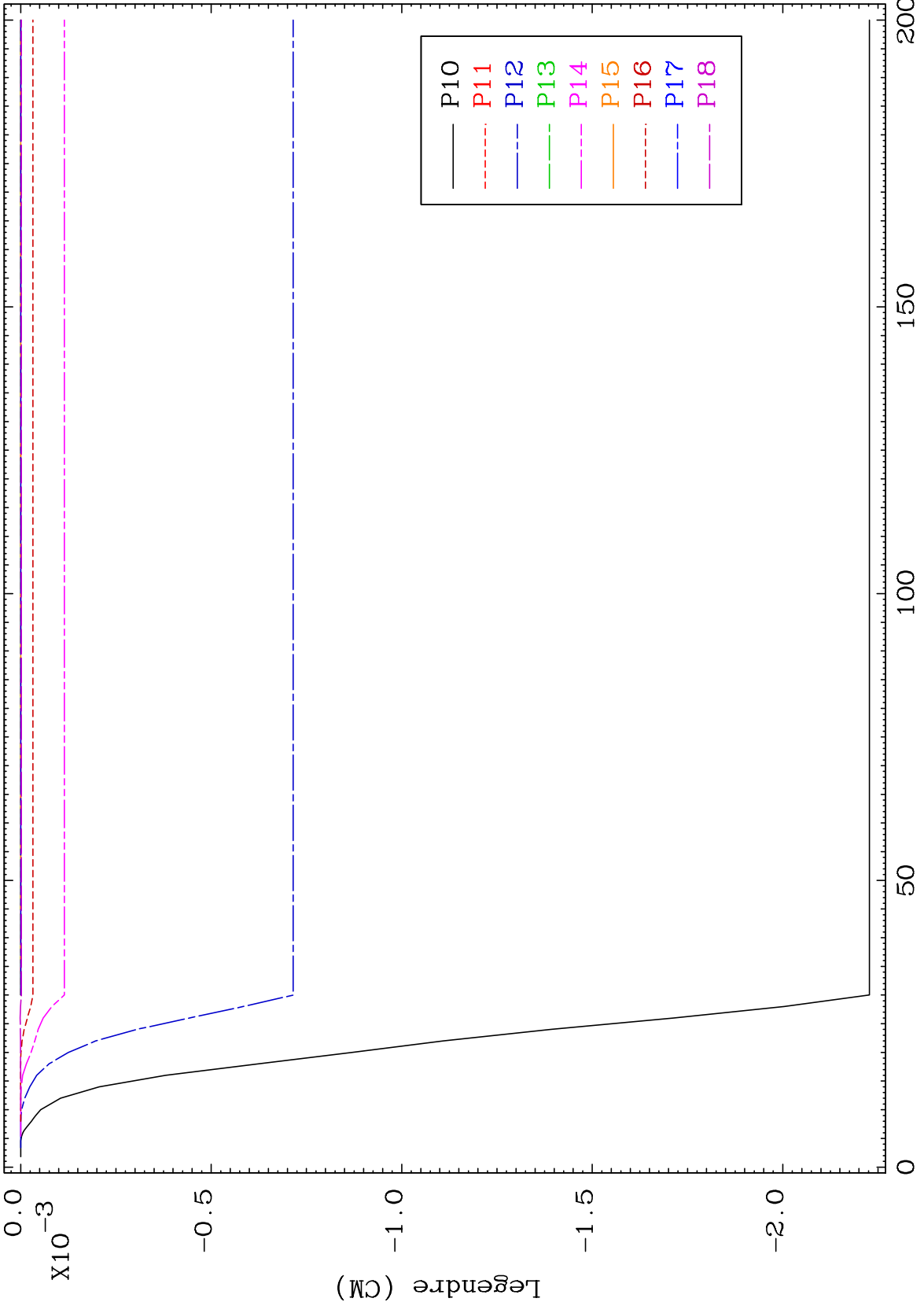


24

Incident Energy (MeV)

61-Pm-142

MAT 6134 MT= 52 (n,n') Level Legendre Coefficients 61-Pm-142

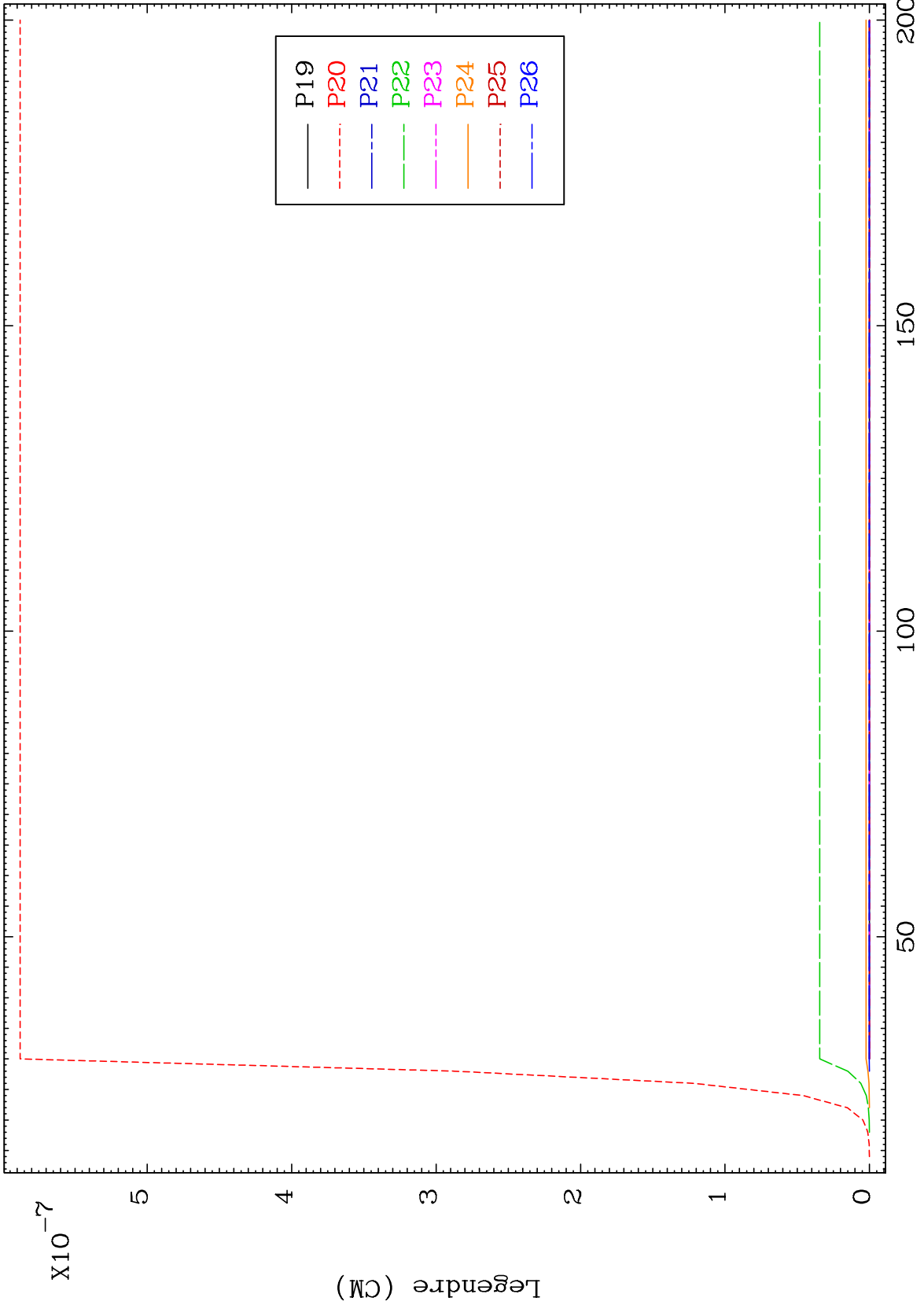


25 Incident Energy (MeV) 61-Pm-142

MAT 6134

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

61-Pm-142



26

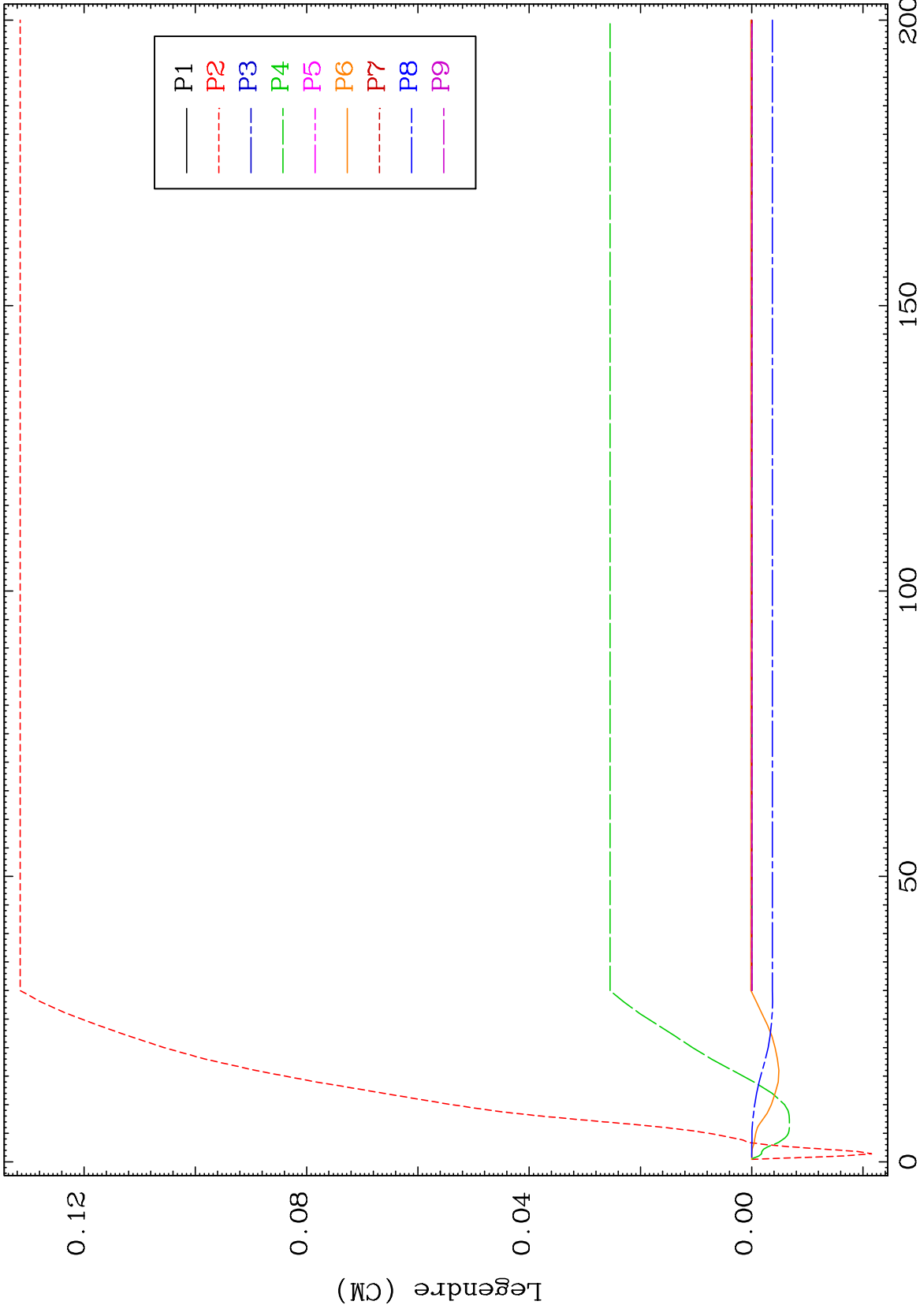
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



27

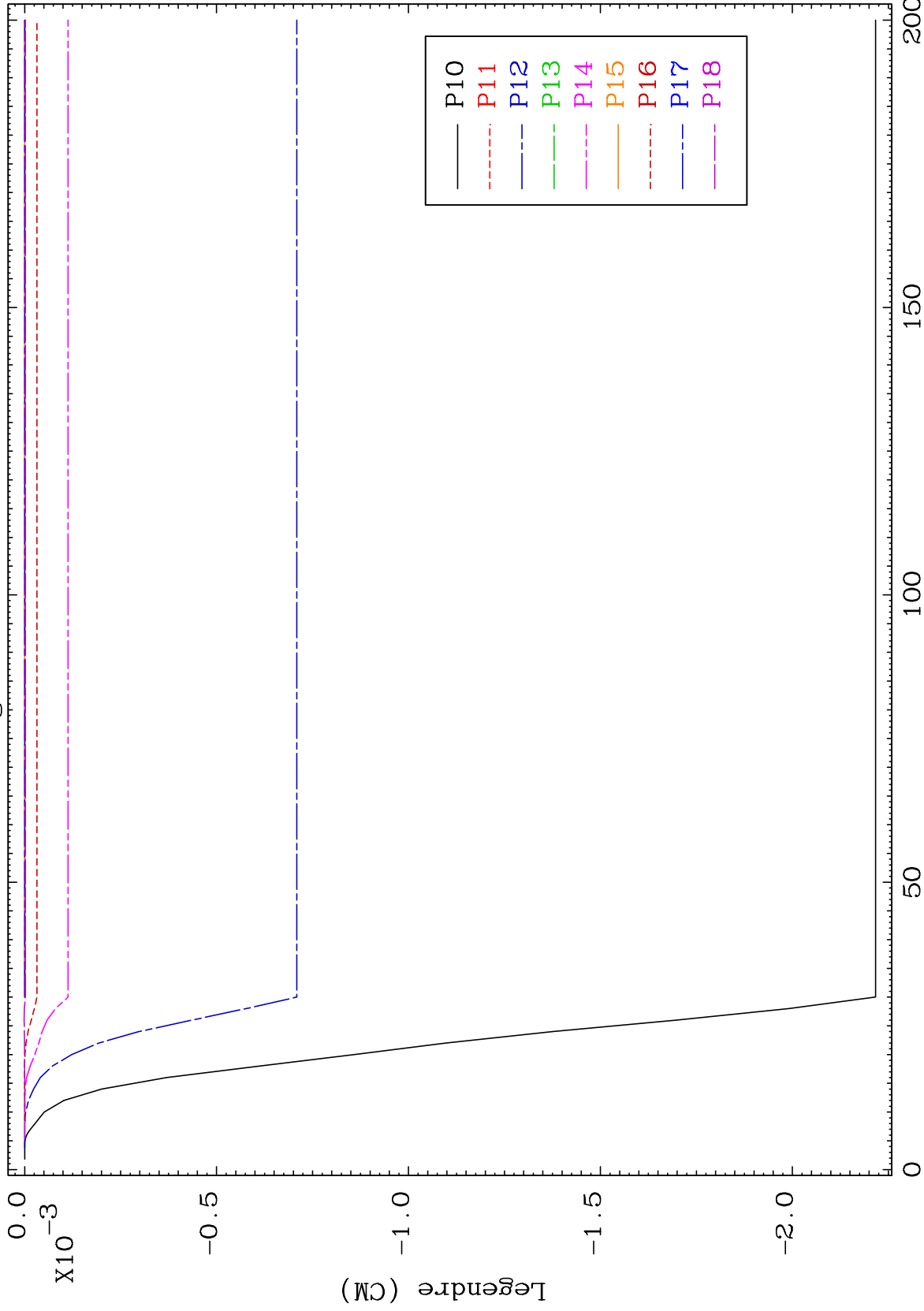
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



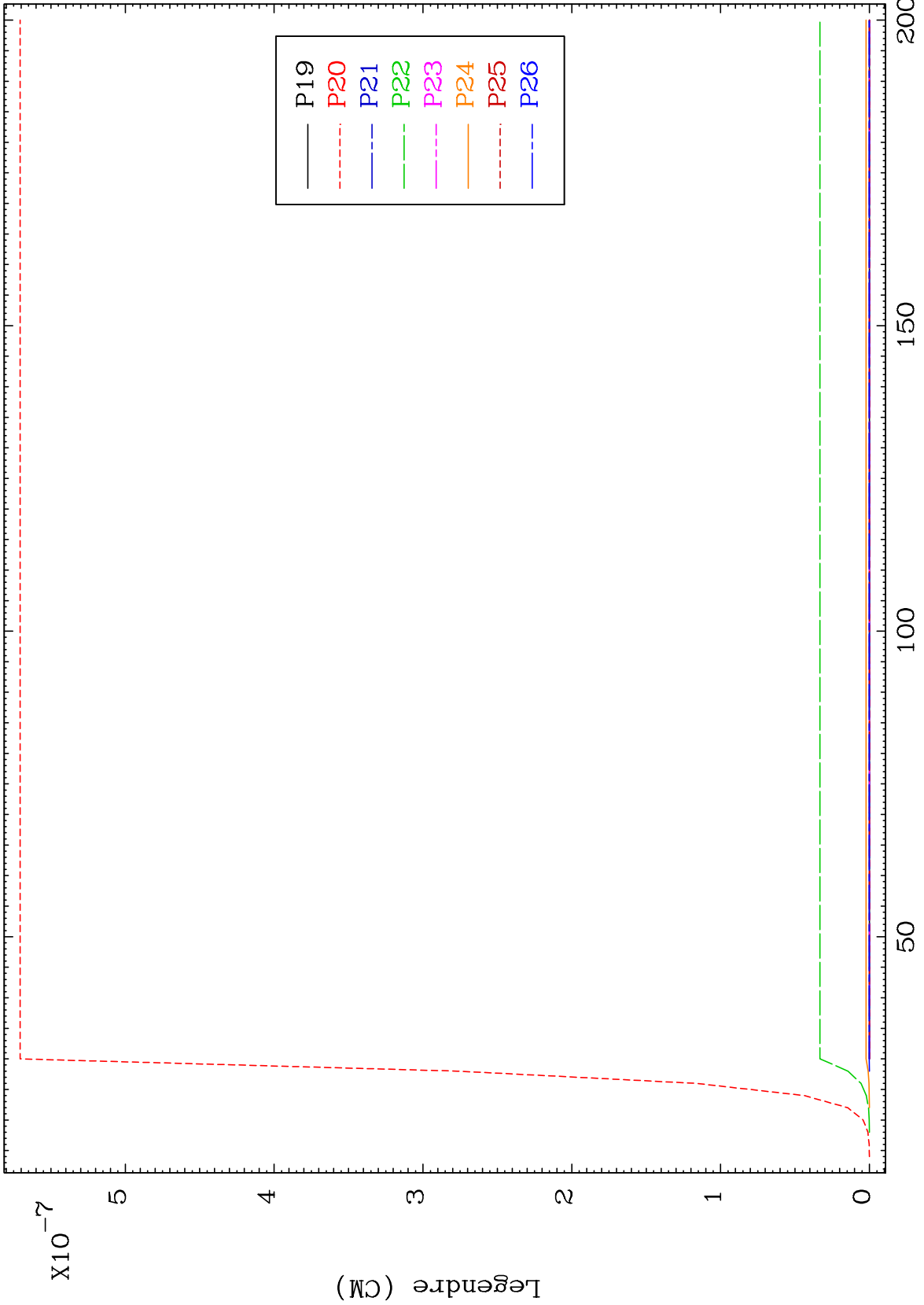
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61-Pm-142

MAT 6134

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

61-Pm-142

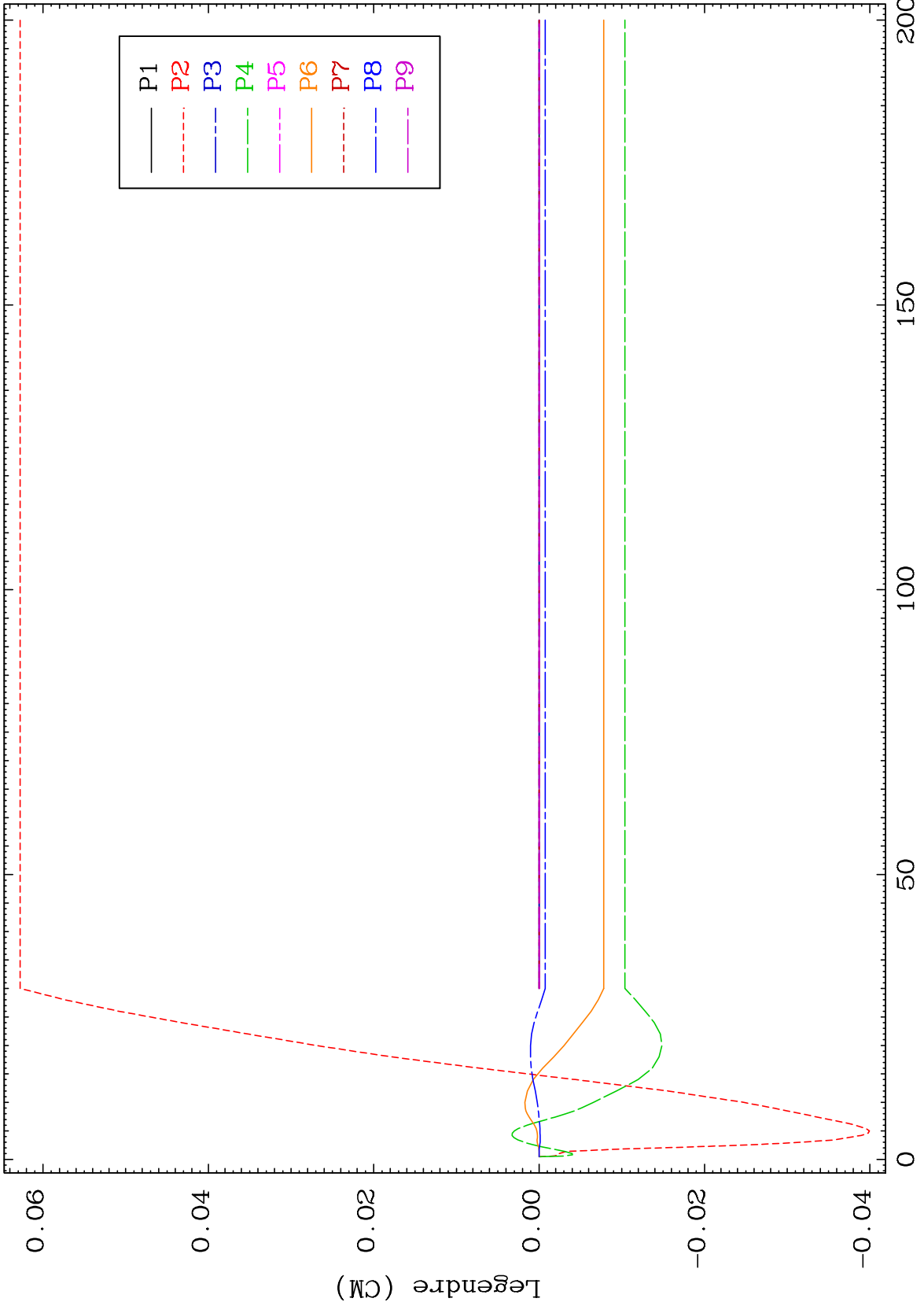


29

Incident Energy (MeV)

61-Pm-142

MAT 6134 MT= 54 (n,n') Level Legendre Coefficients 61-Pm-142

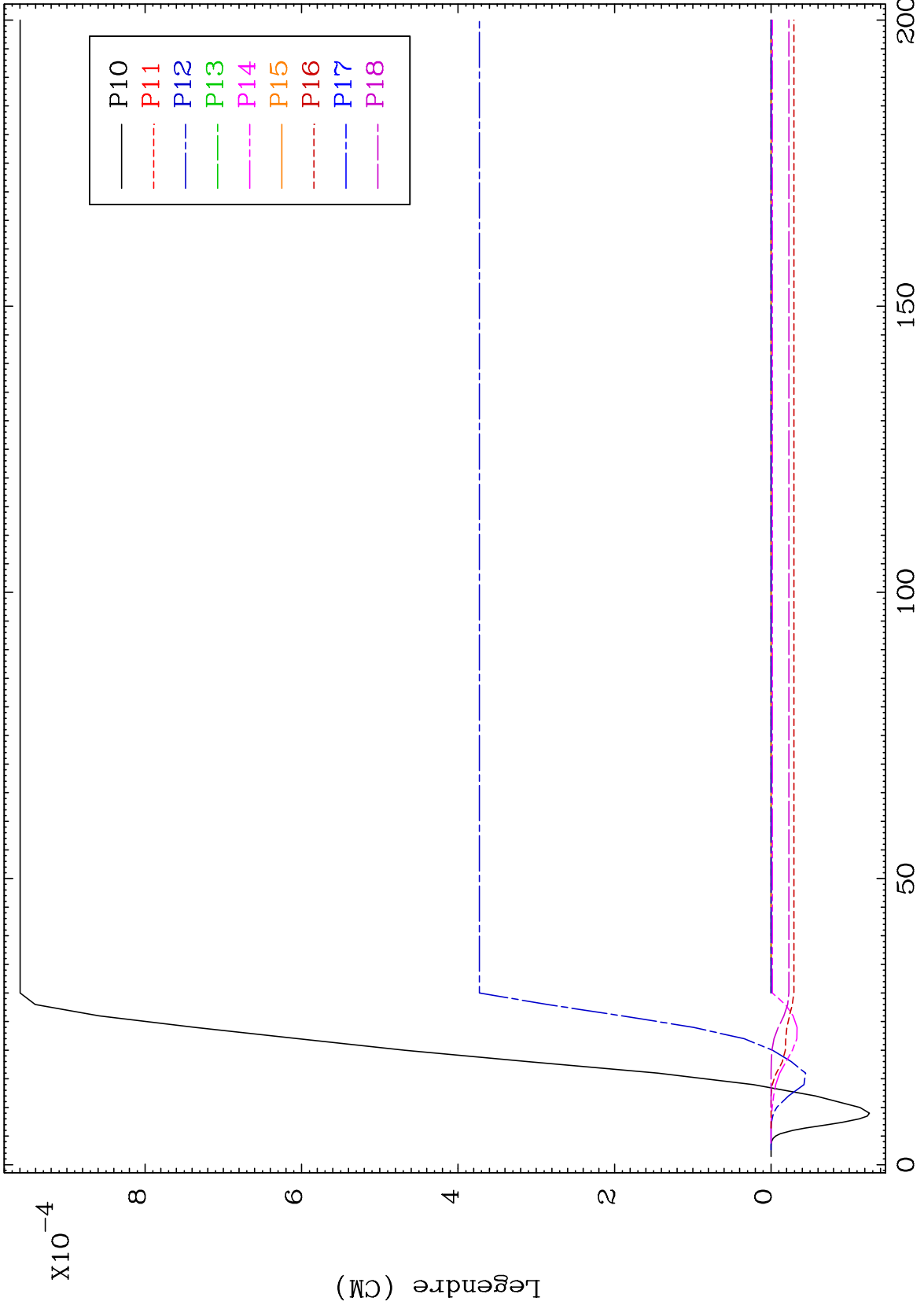


61-Pm-142

MAT 6134

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

61-Pm-142



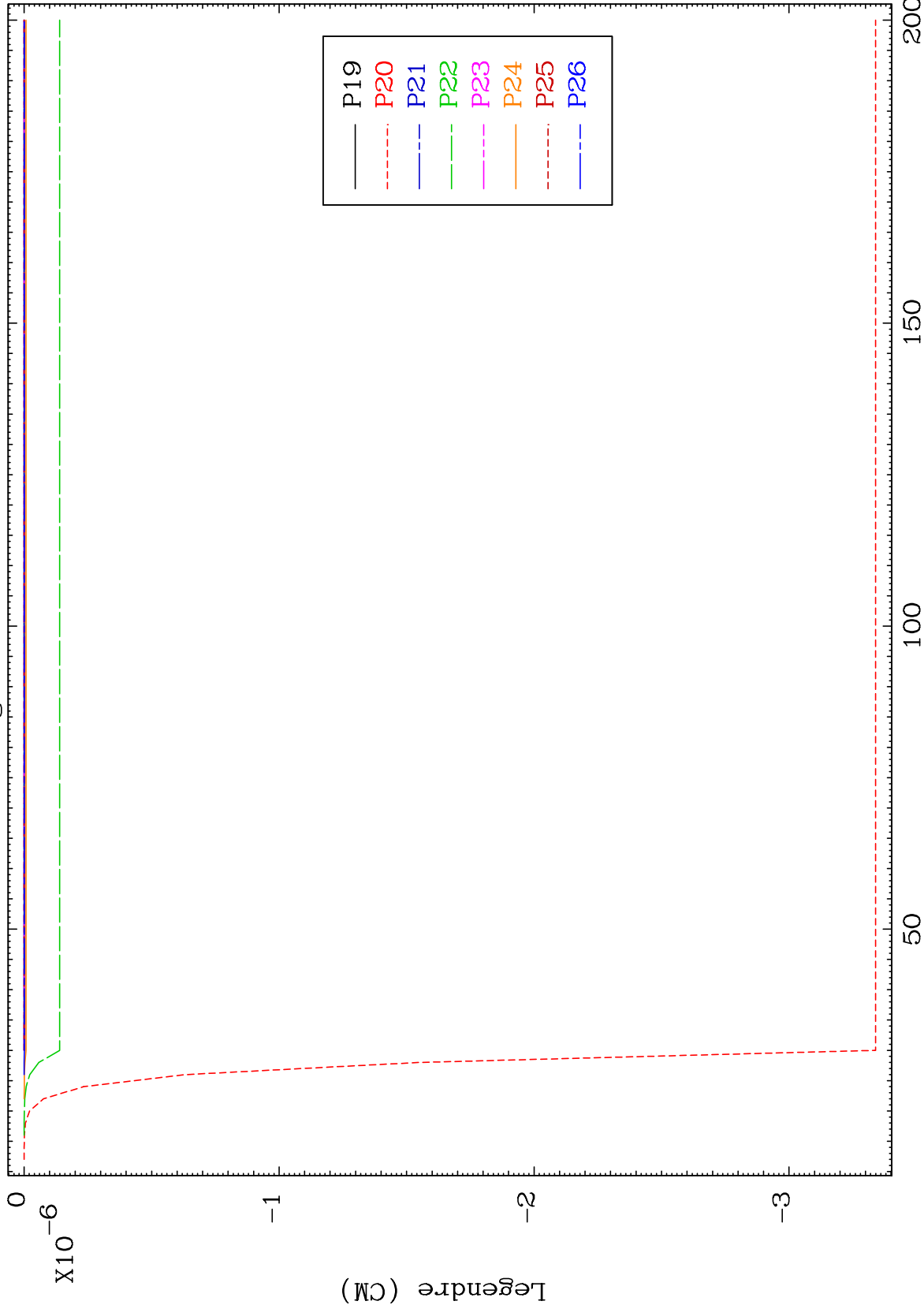
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61-Pm-142

MAT 6134

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

61-Pm-142



61-Pm-142

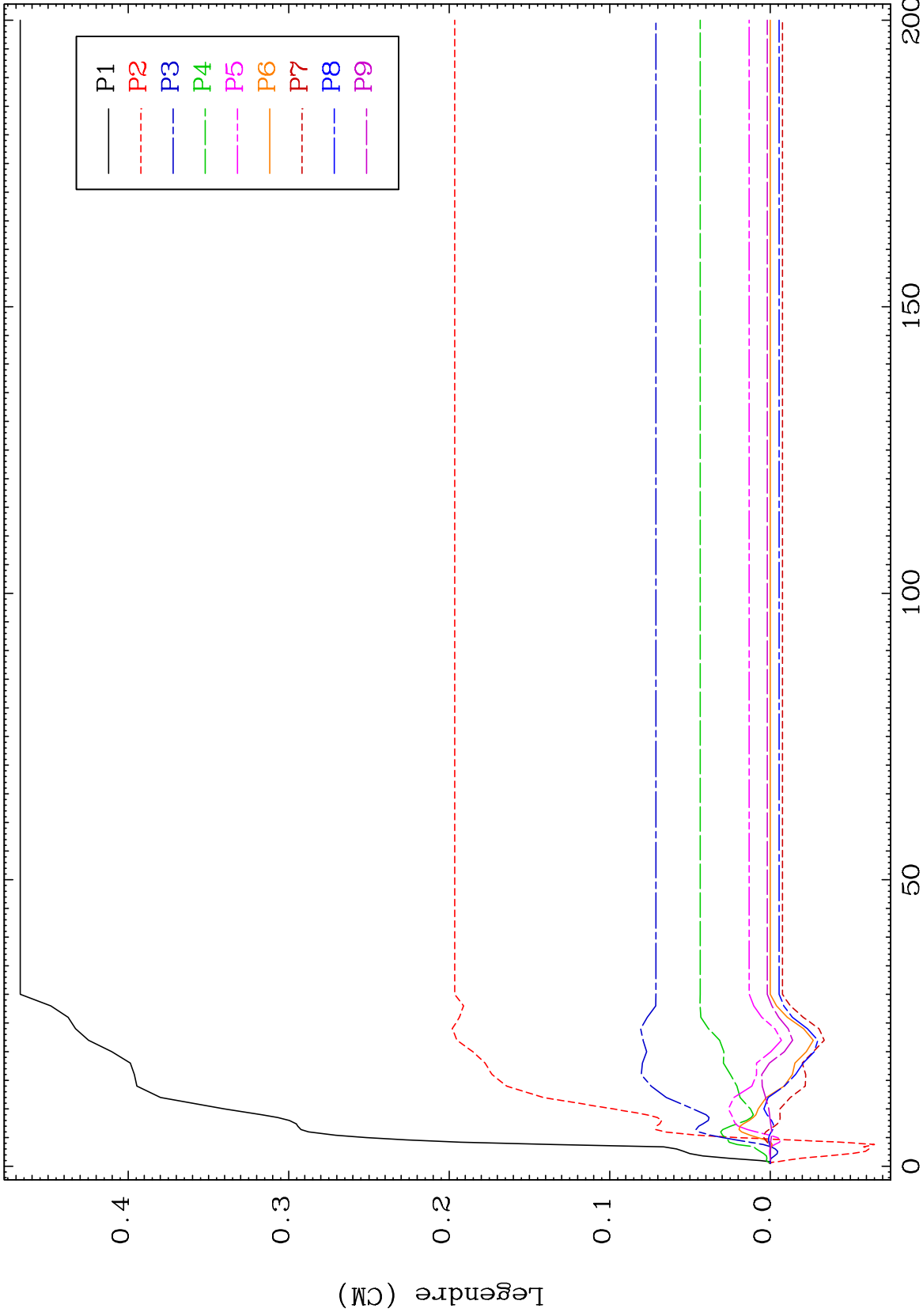
Incident Energy (MeV)

32

MAT 6134

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

61-Pm-142



33

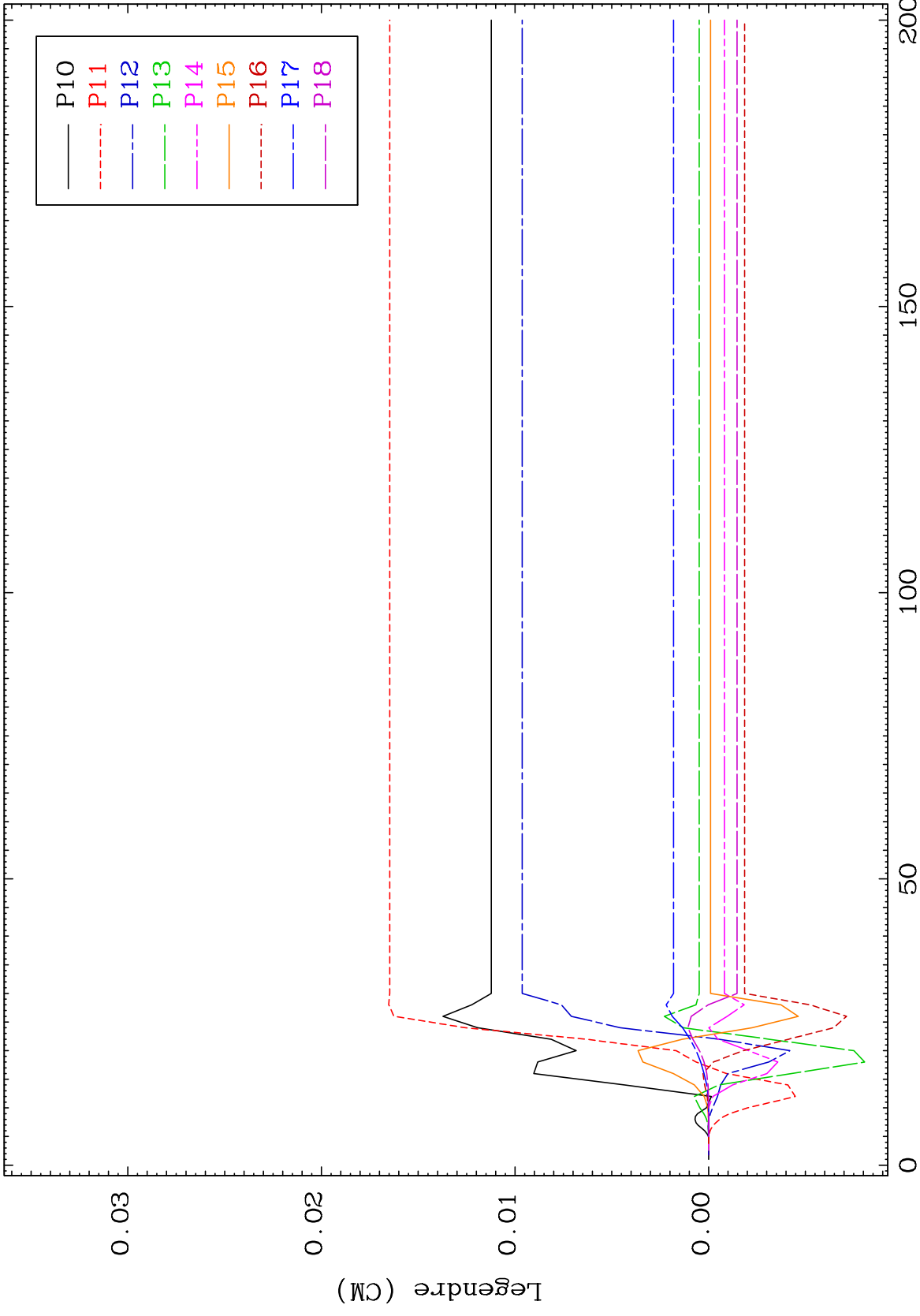
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



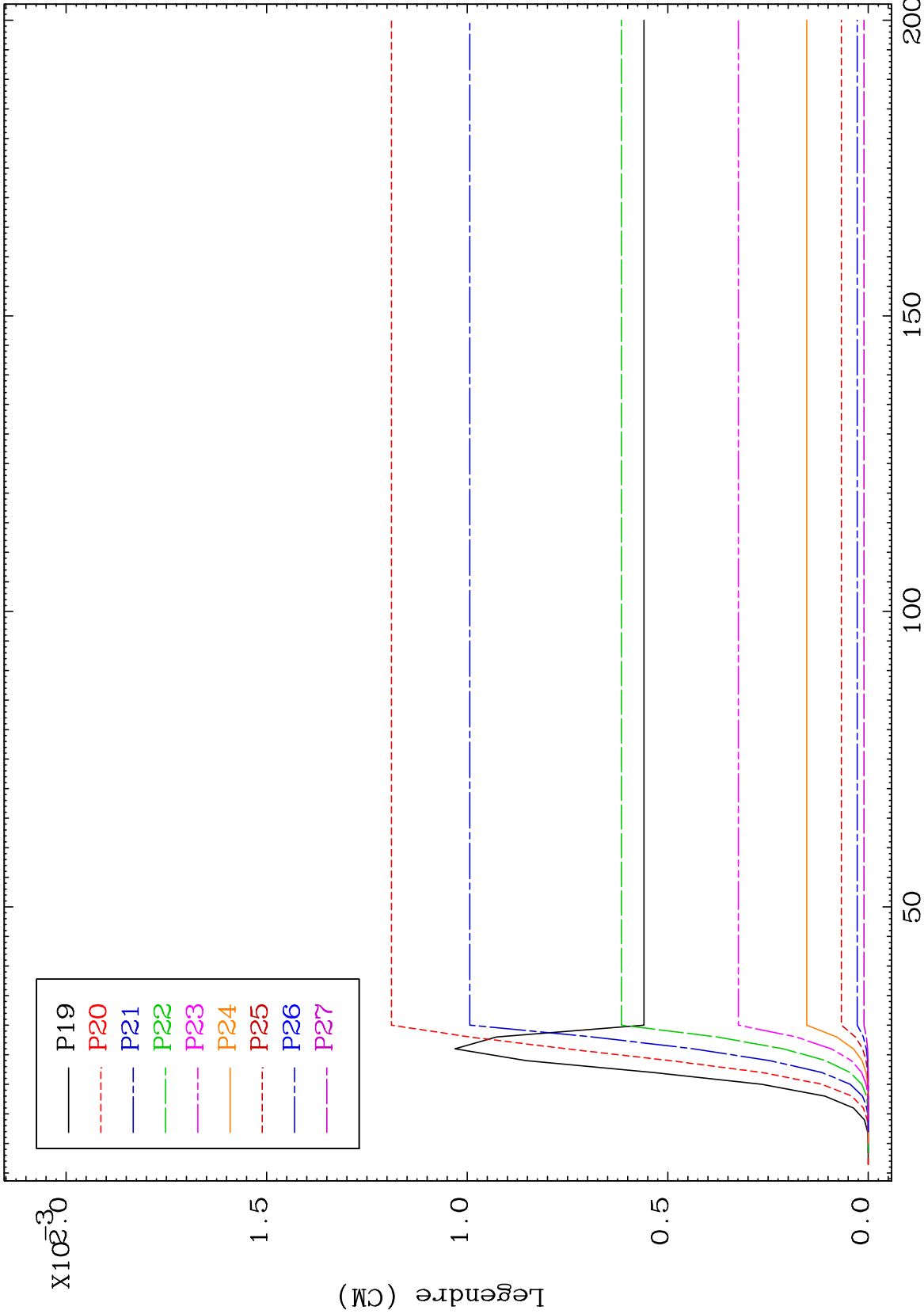
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61-Pm-142

MAT 6134

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

61-Pm-142



35

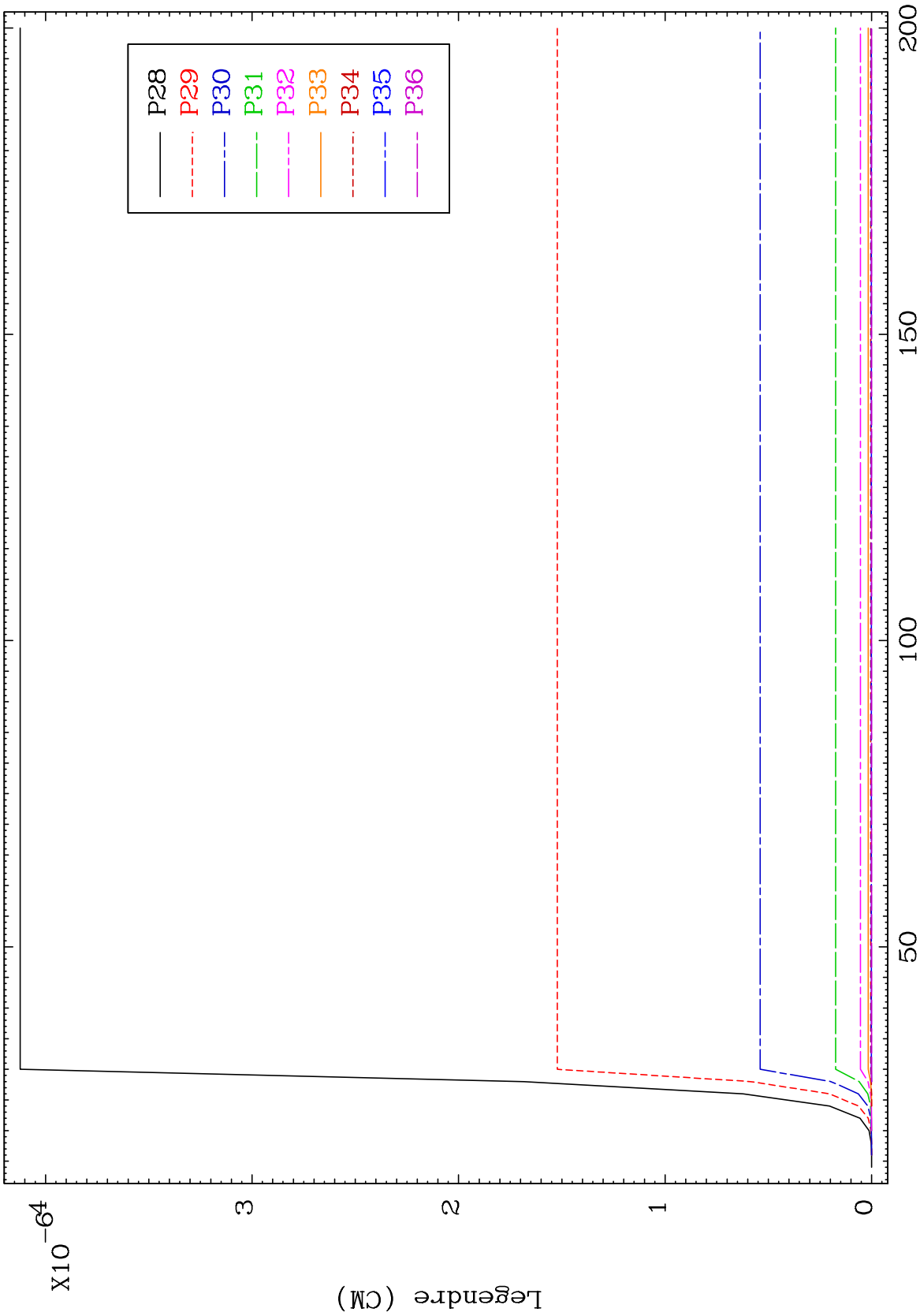
Incident Energy (MeV)

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MAT 6134

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

61-Pm-142



36

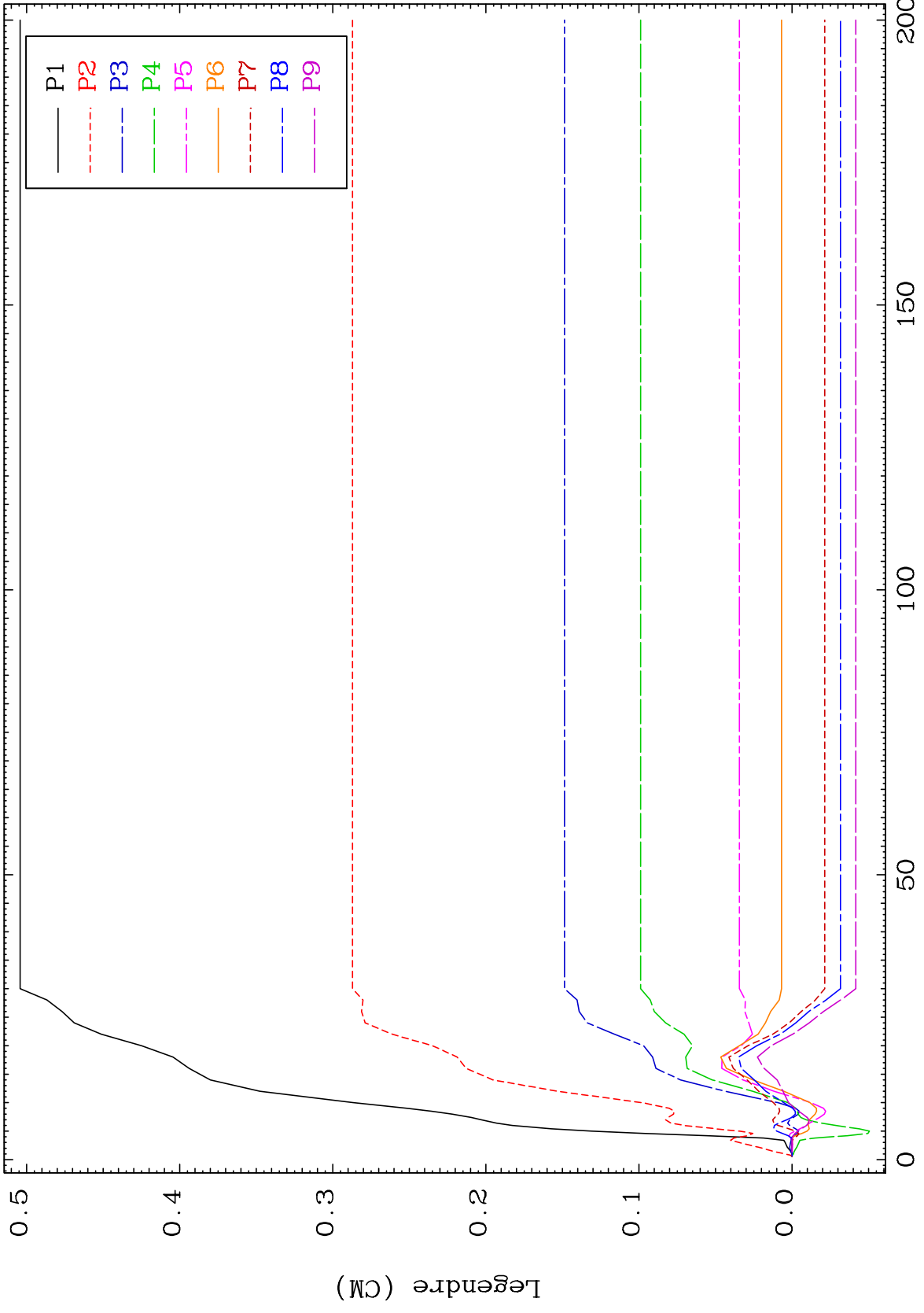
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



37

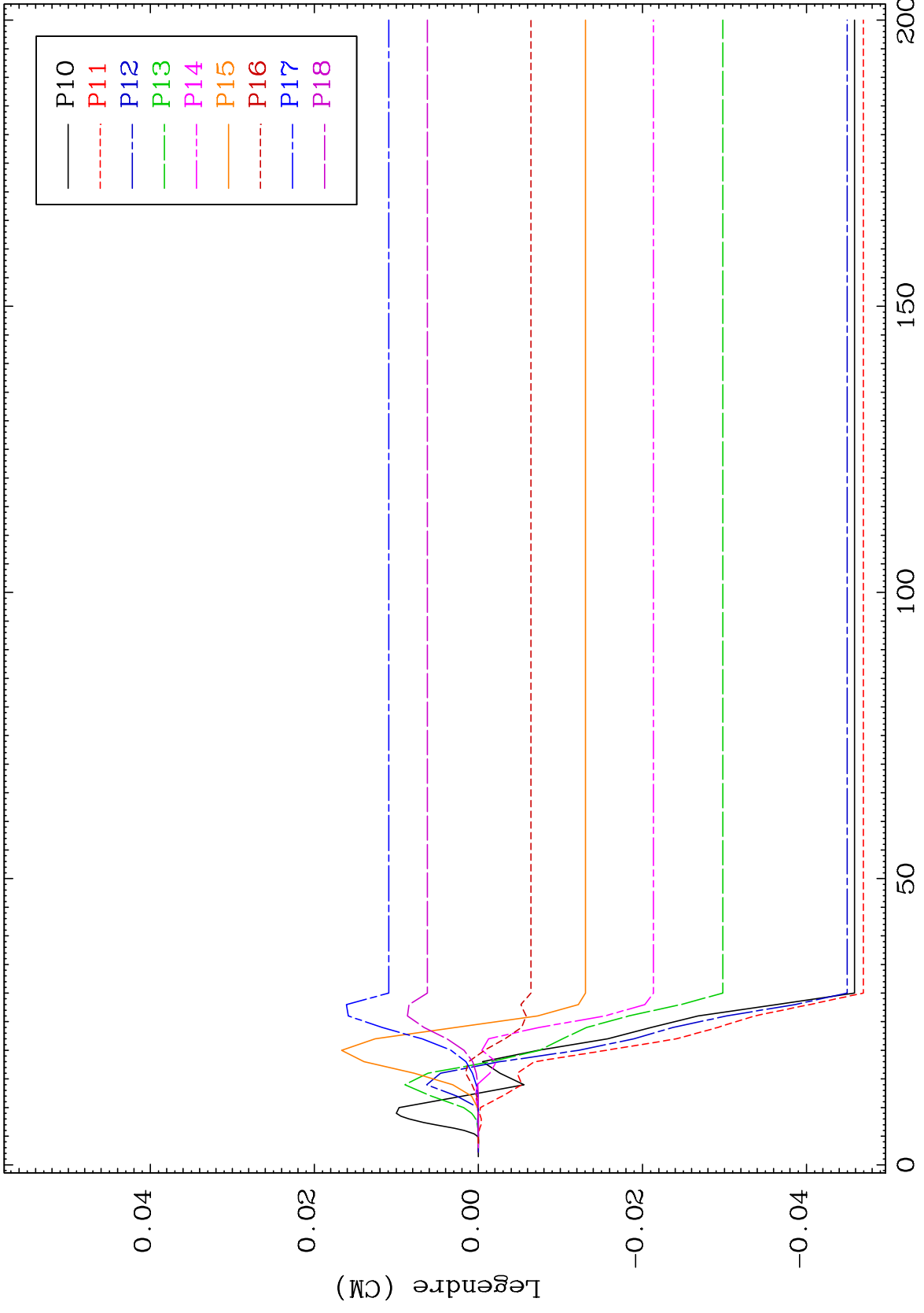
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



38

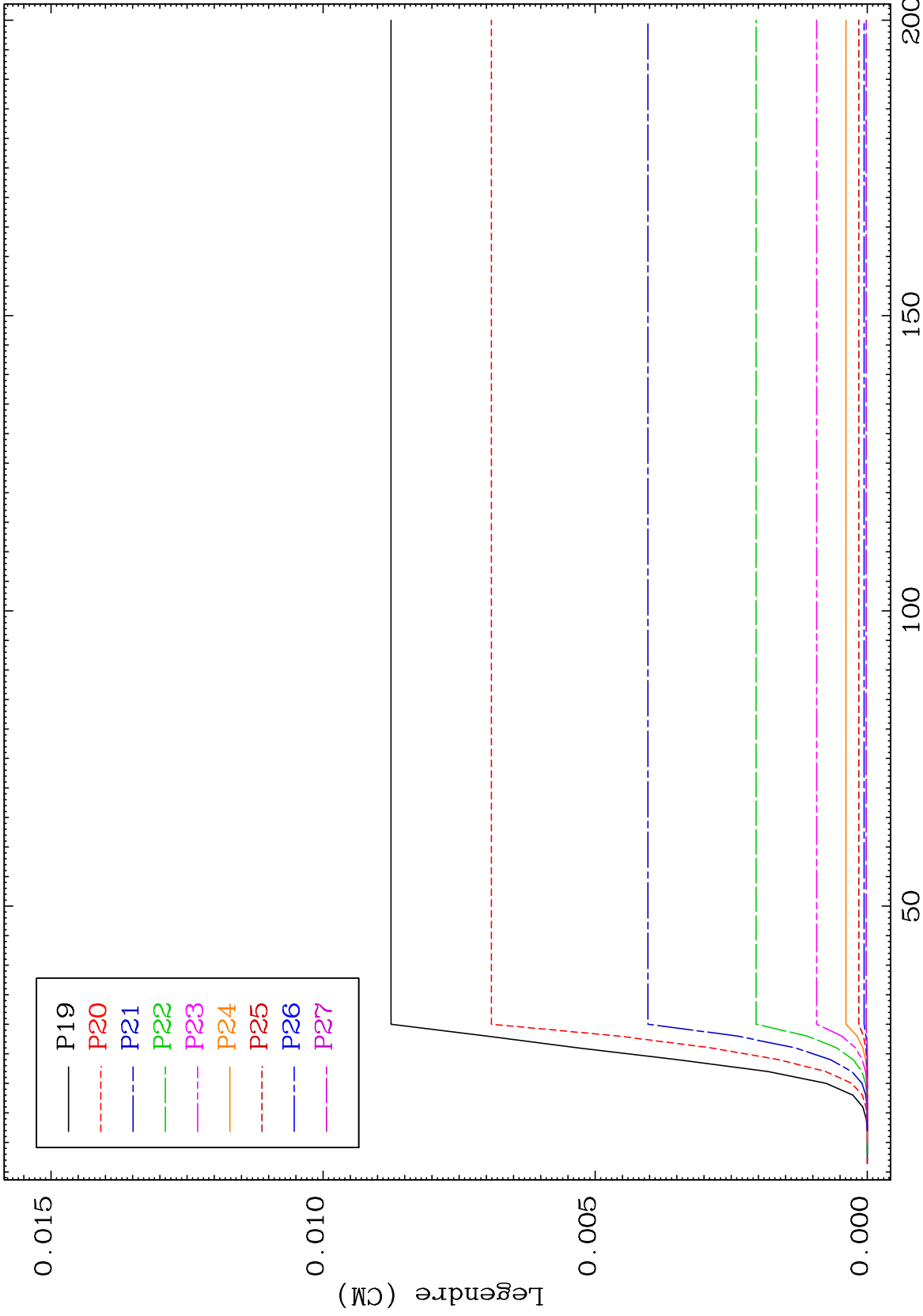
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



39

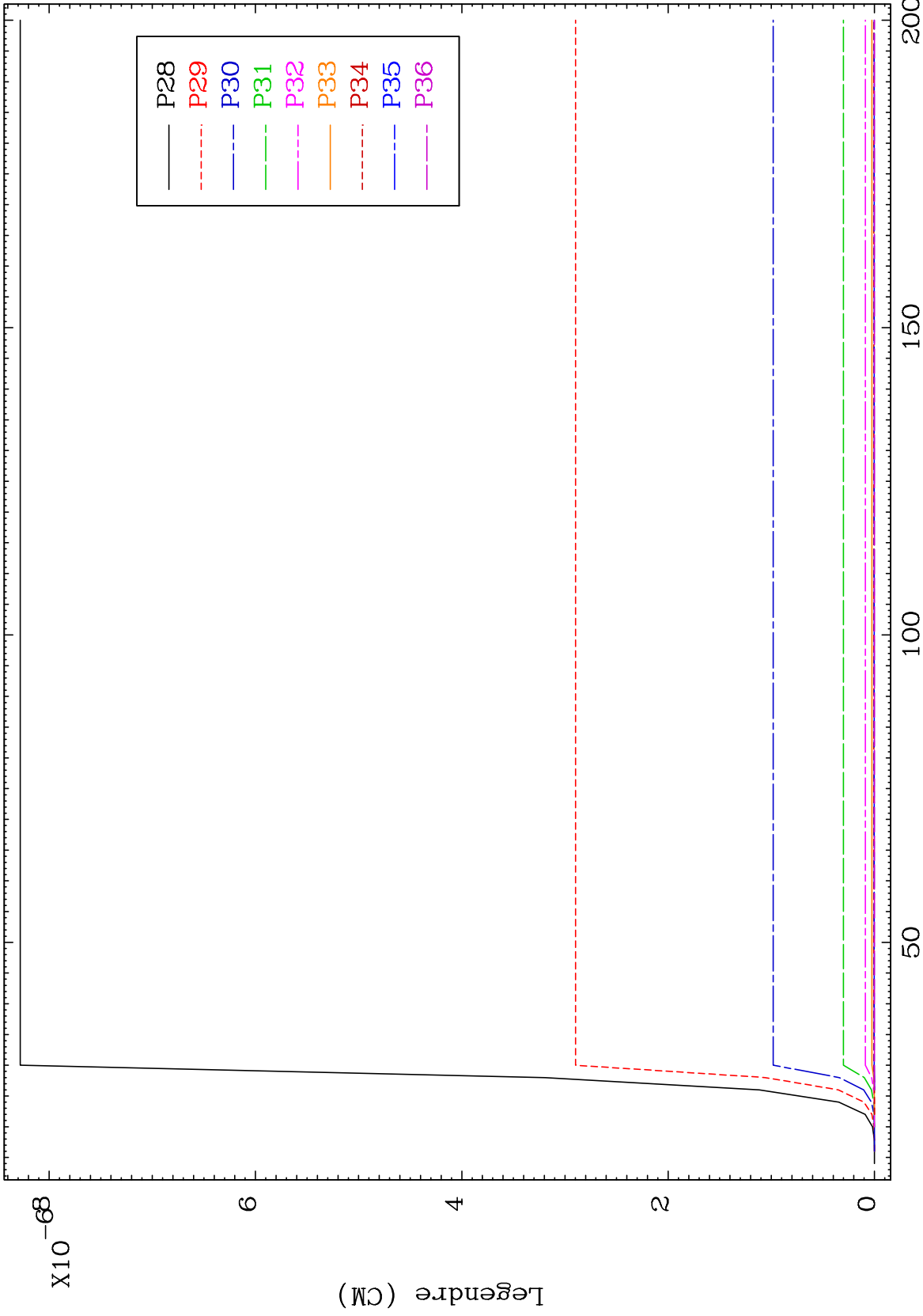
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



40

50

100

150

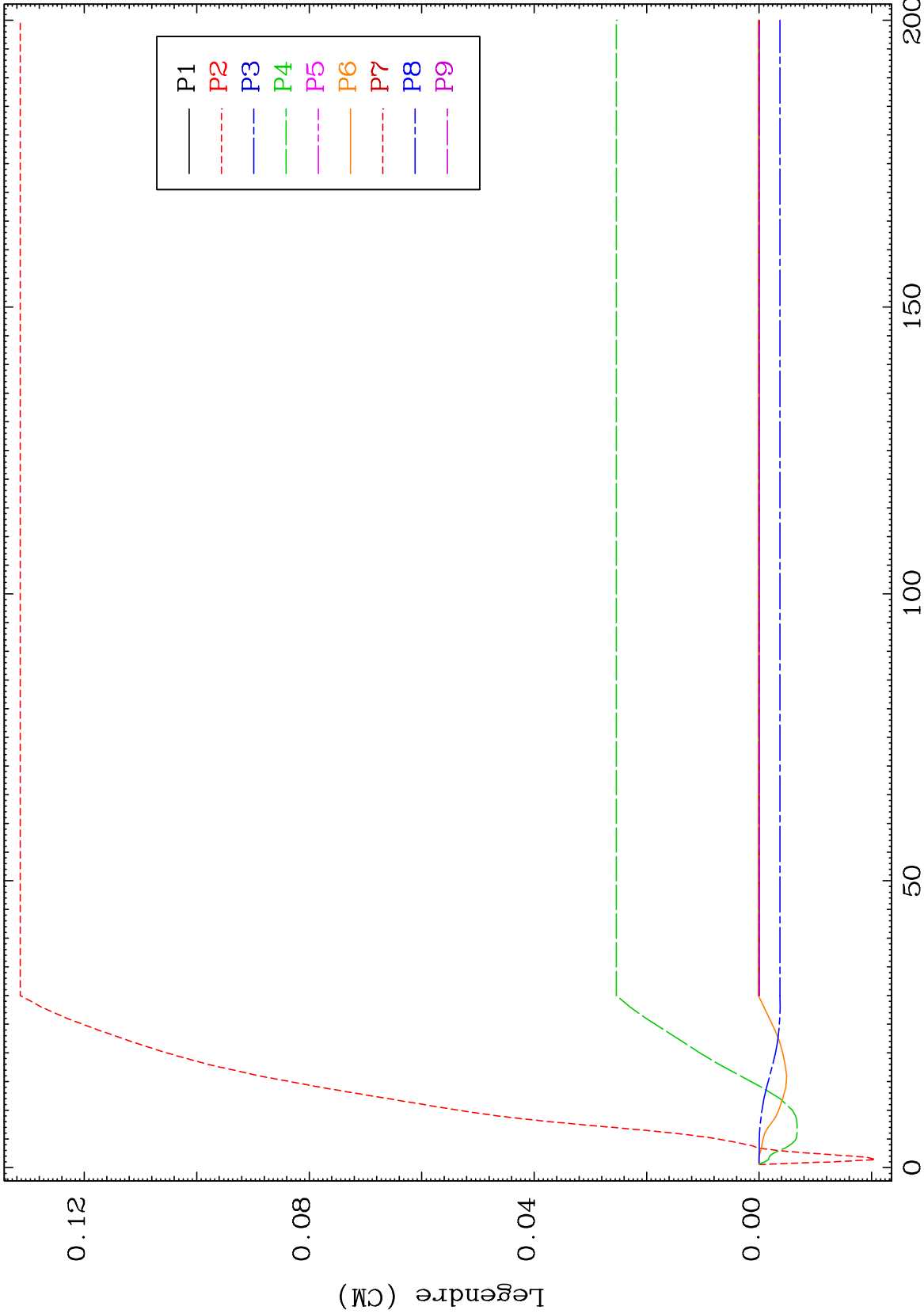
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MAT 6134

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

61-Pm-142



41

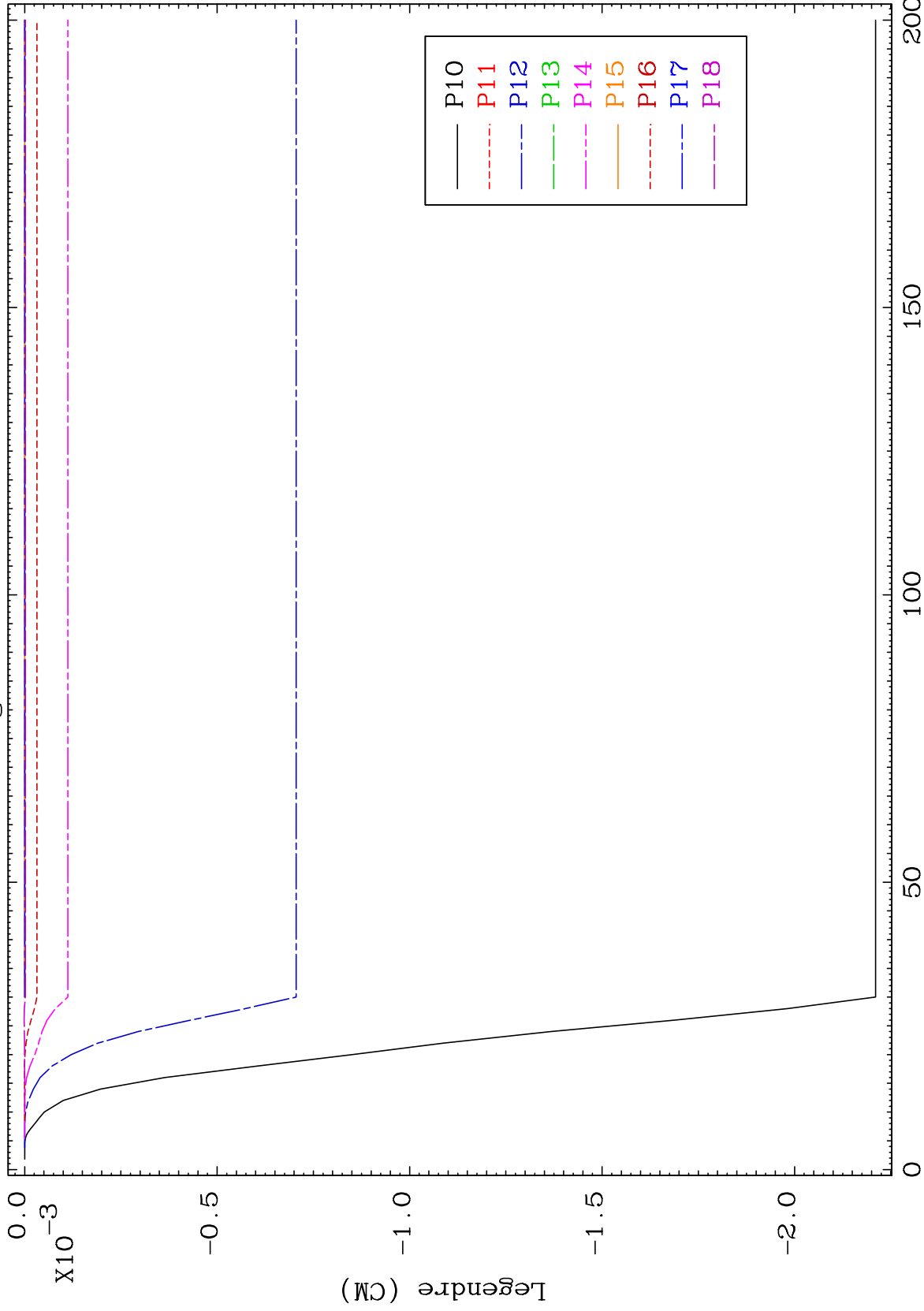
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



42

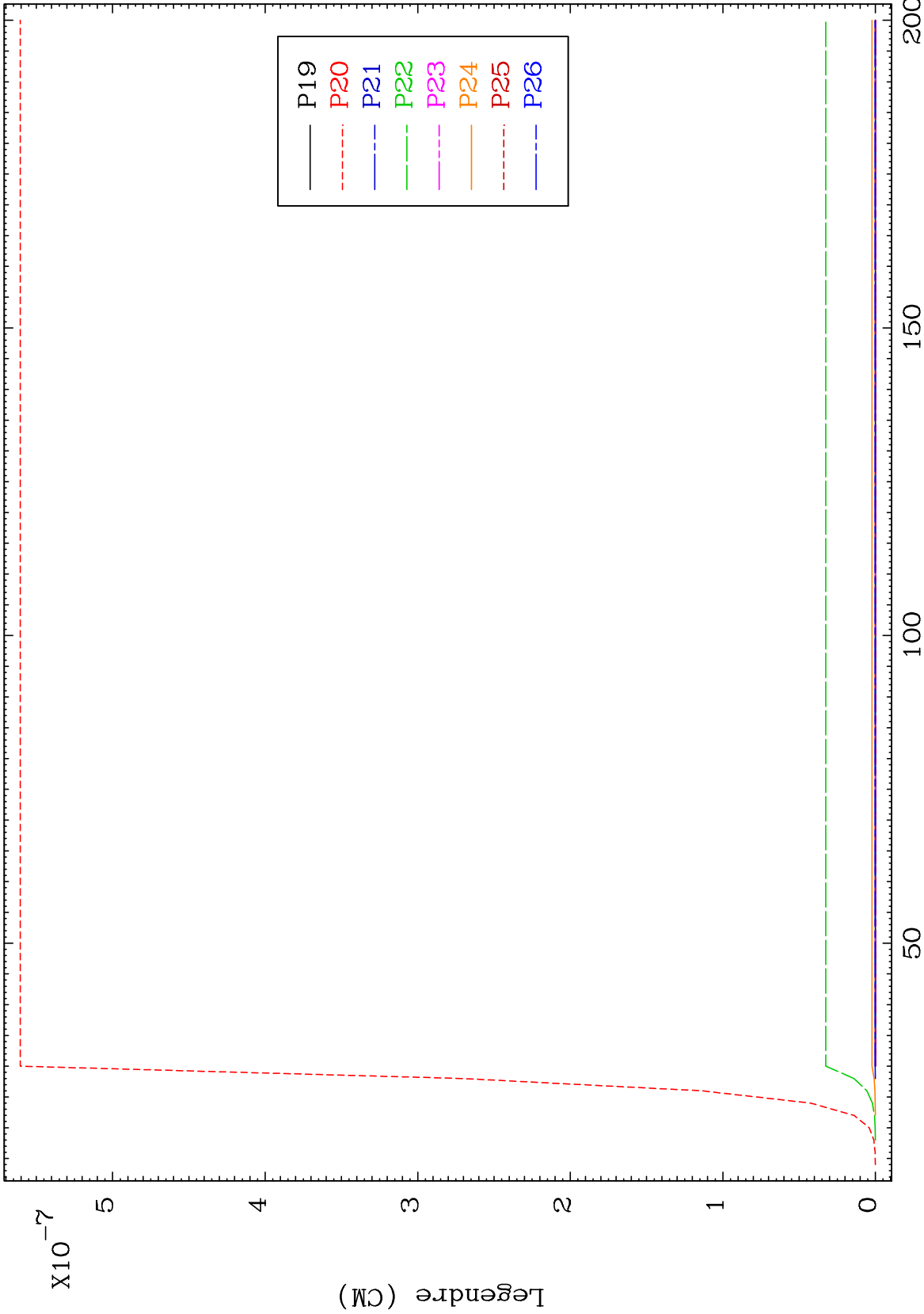
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



43

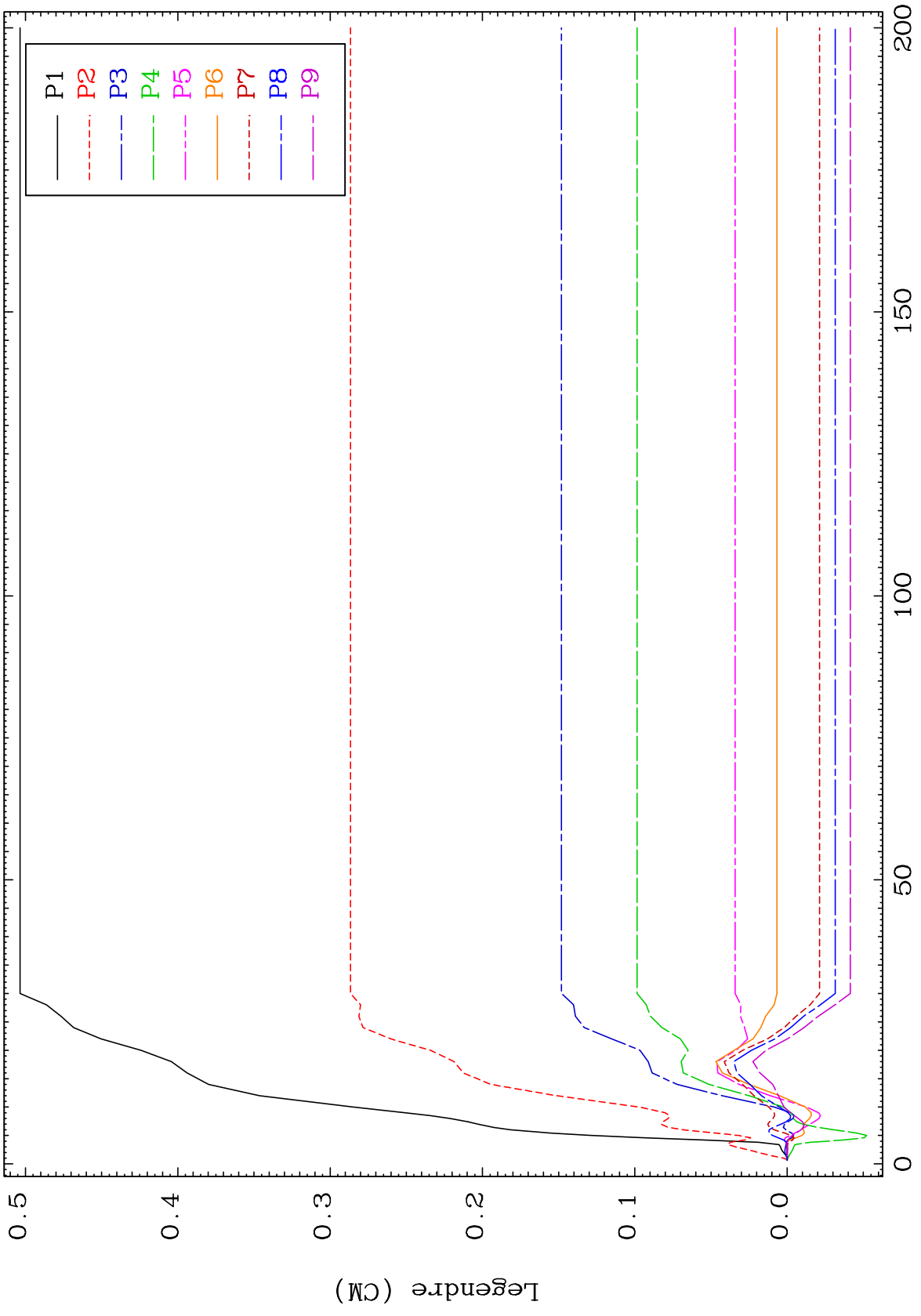
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



44

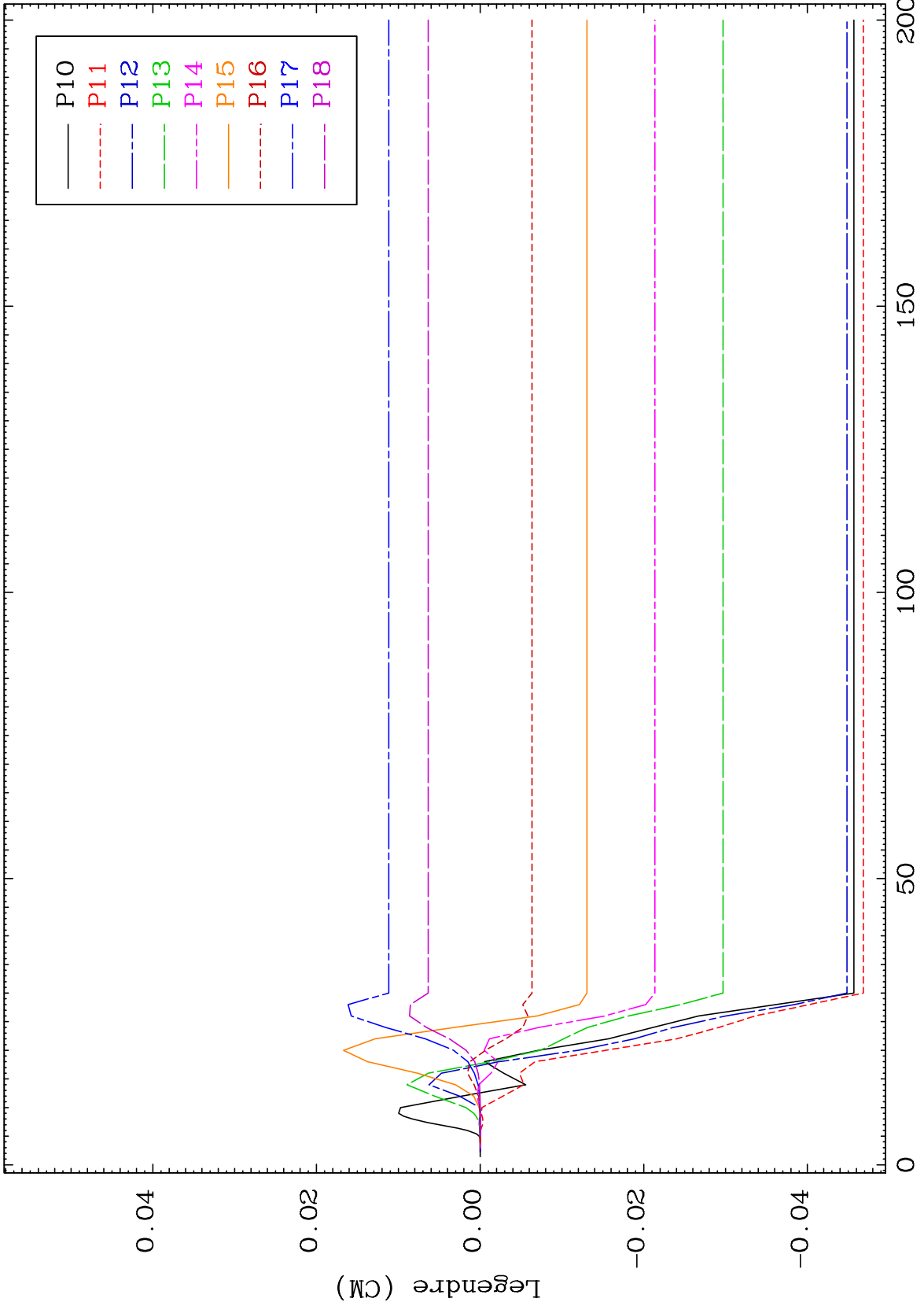
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



45

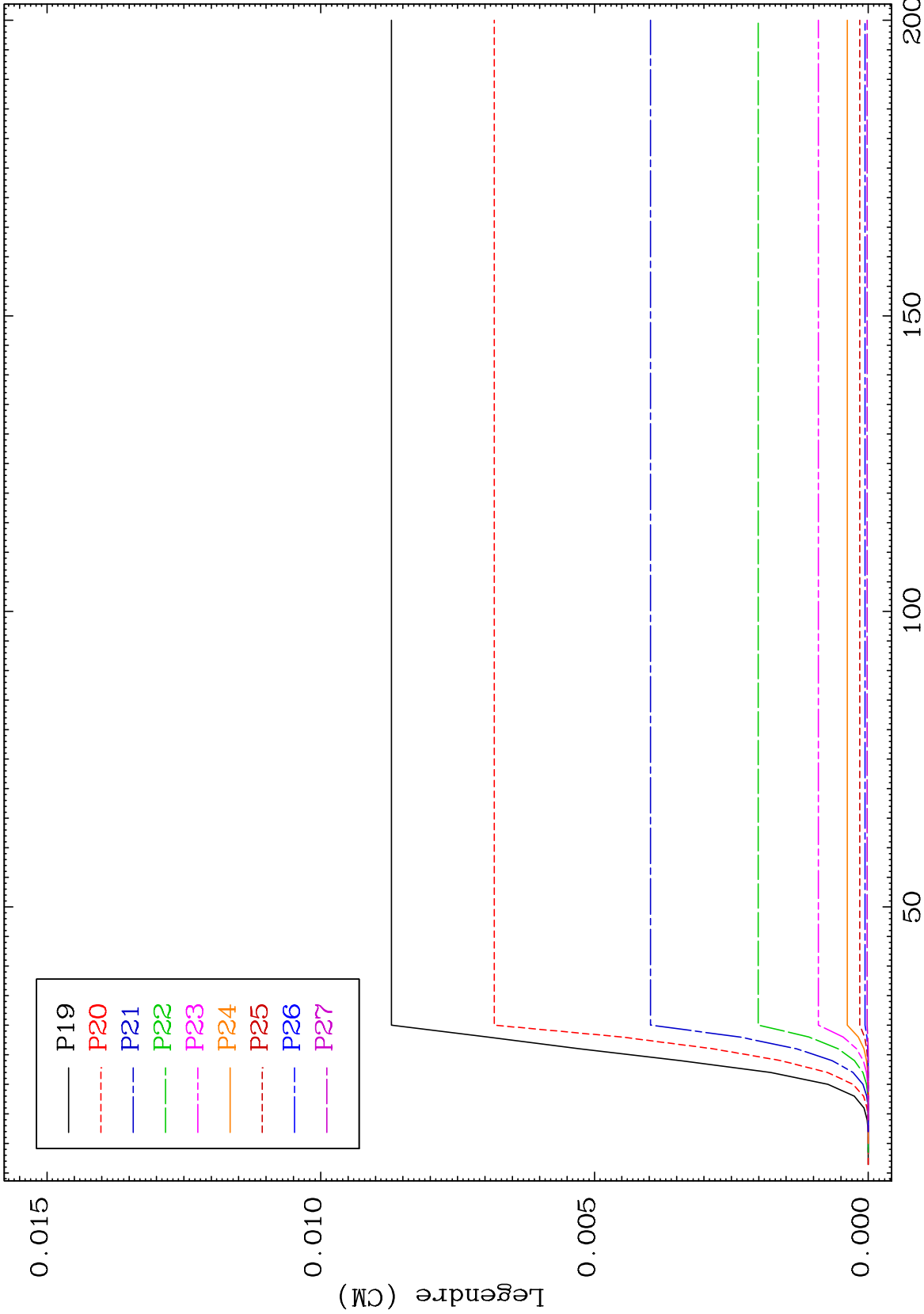
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

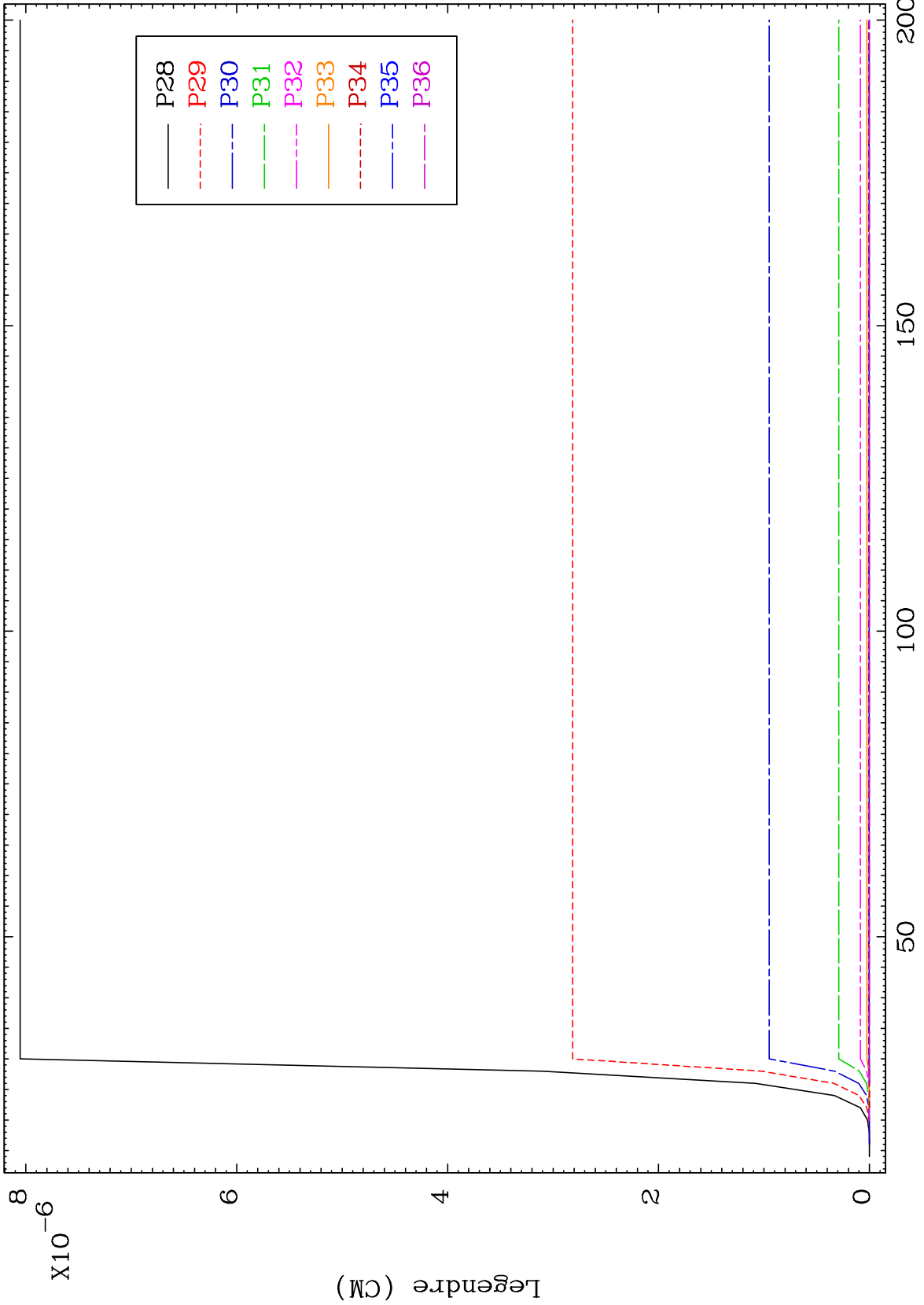
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MAT 6134

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

61-Pm-142



47

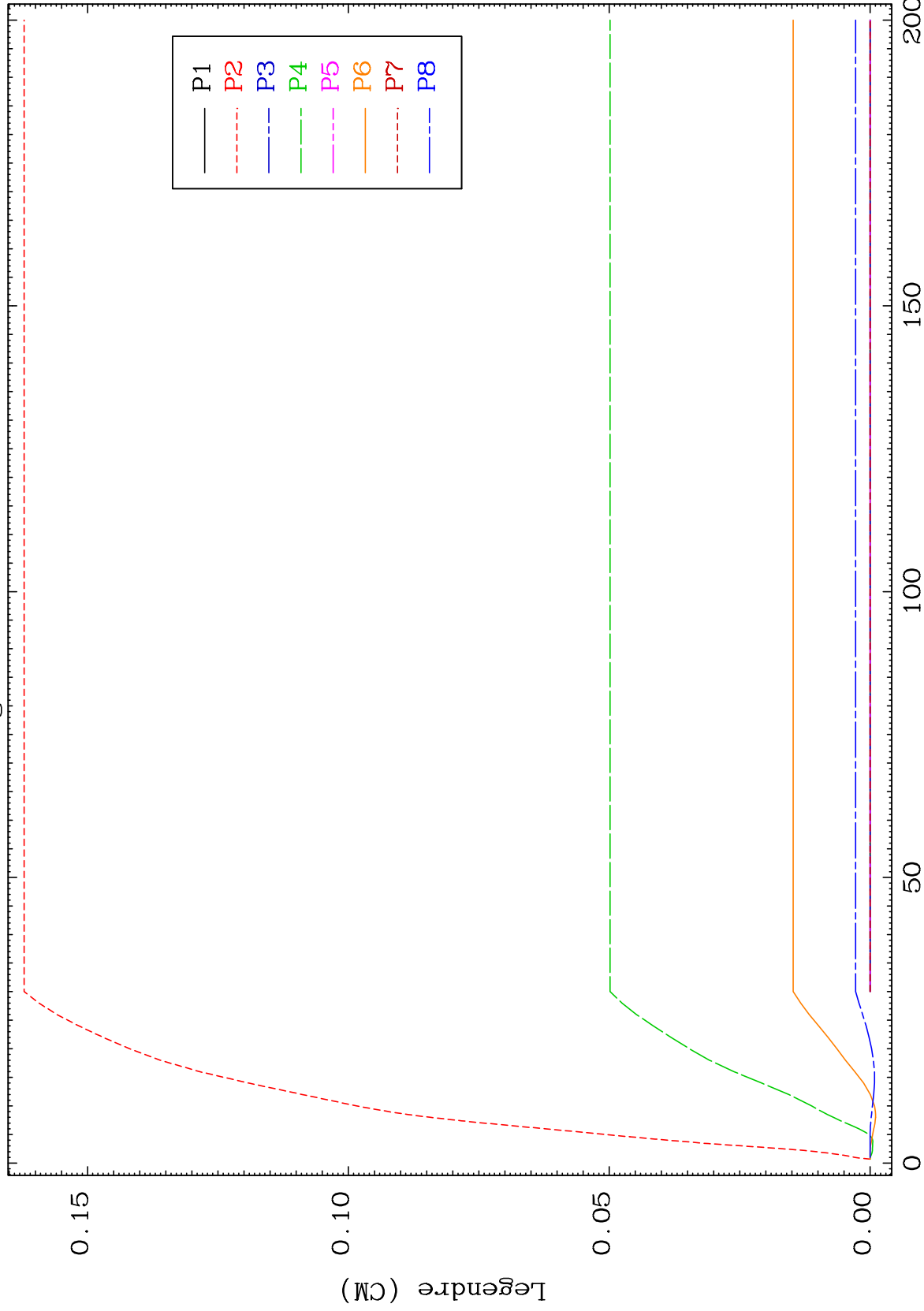
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



48

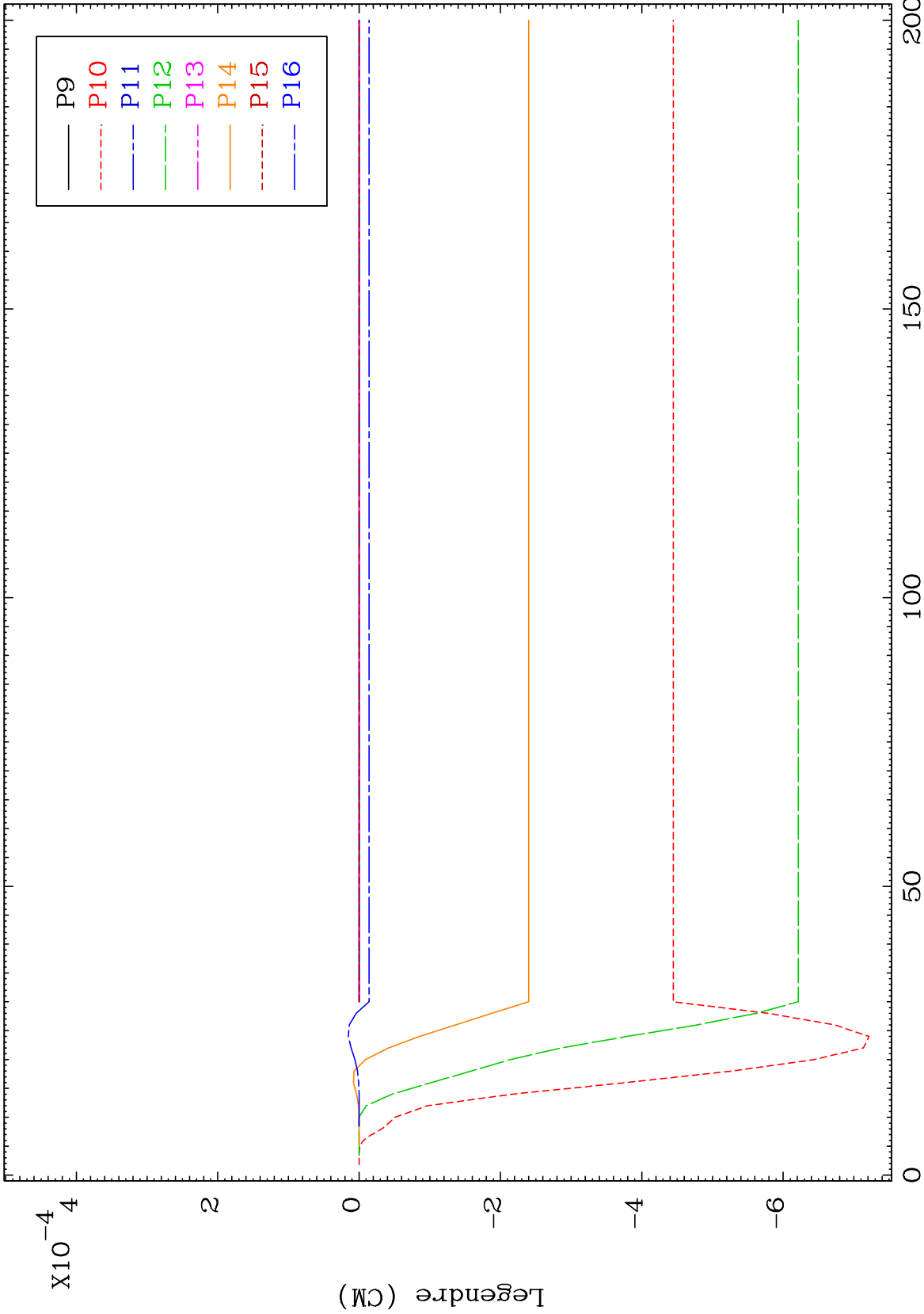
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

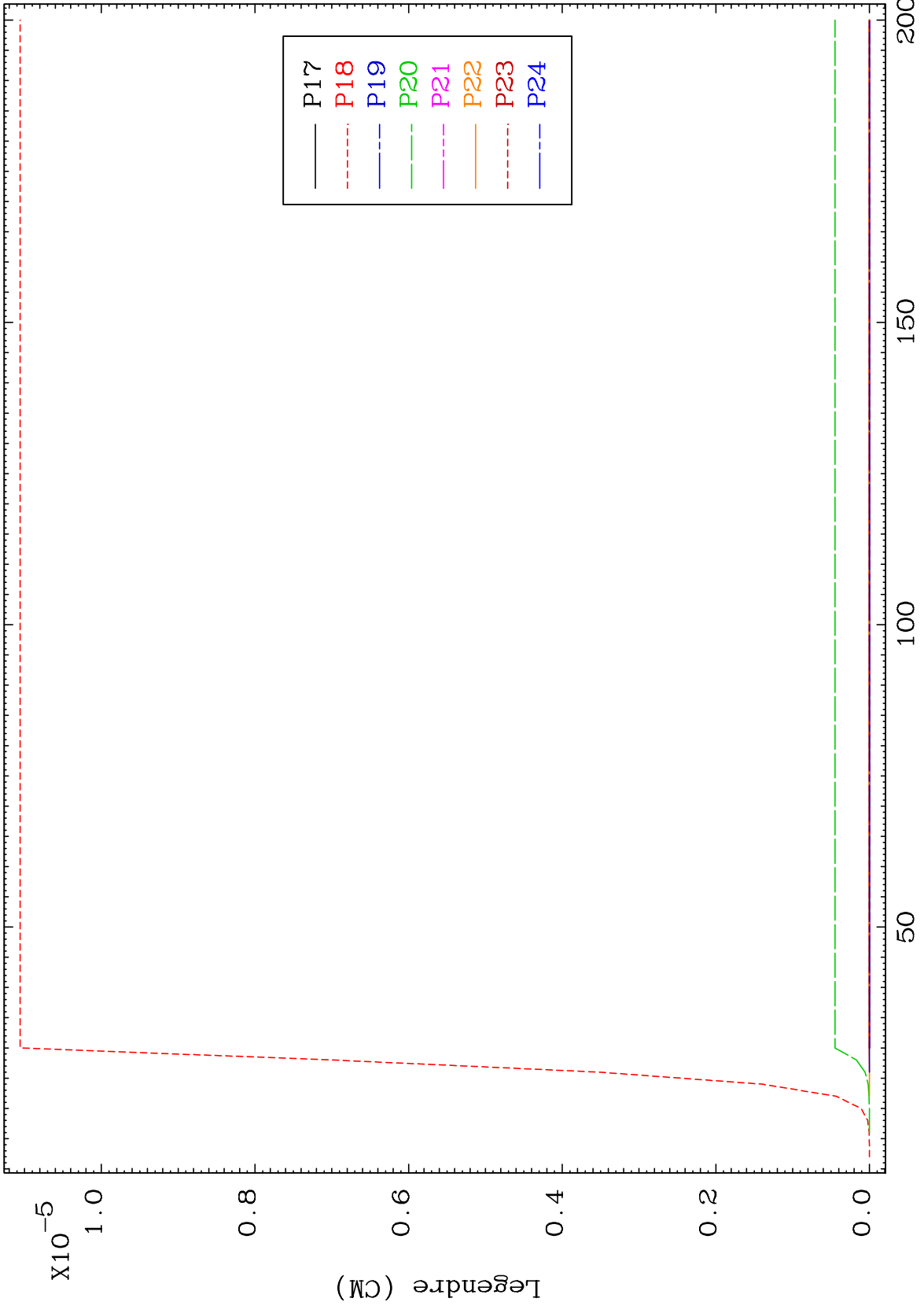
61-Pm-142



49

61-Pm-142

MAT 6134 MT= 59 (n,n') Level Legendre Coefficients 61-Pm-142

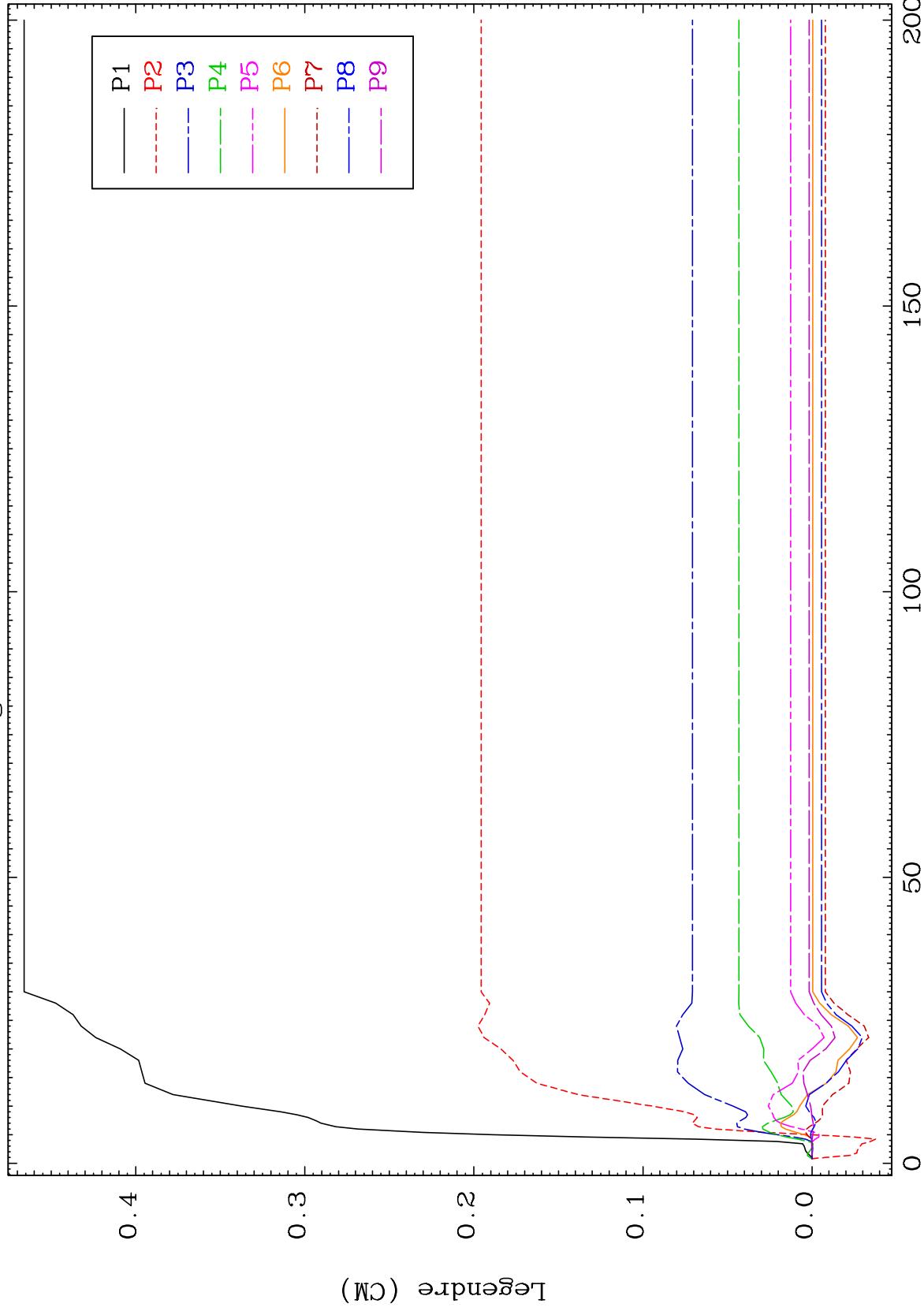


61-Pm-142

MAT 6134

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

61-Pm-142



51

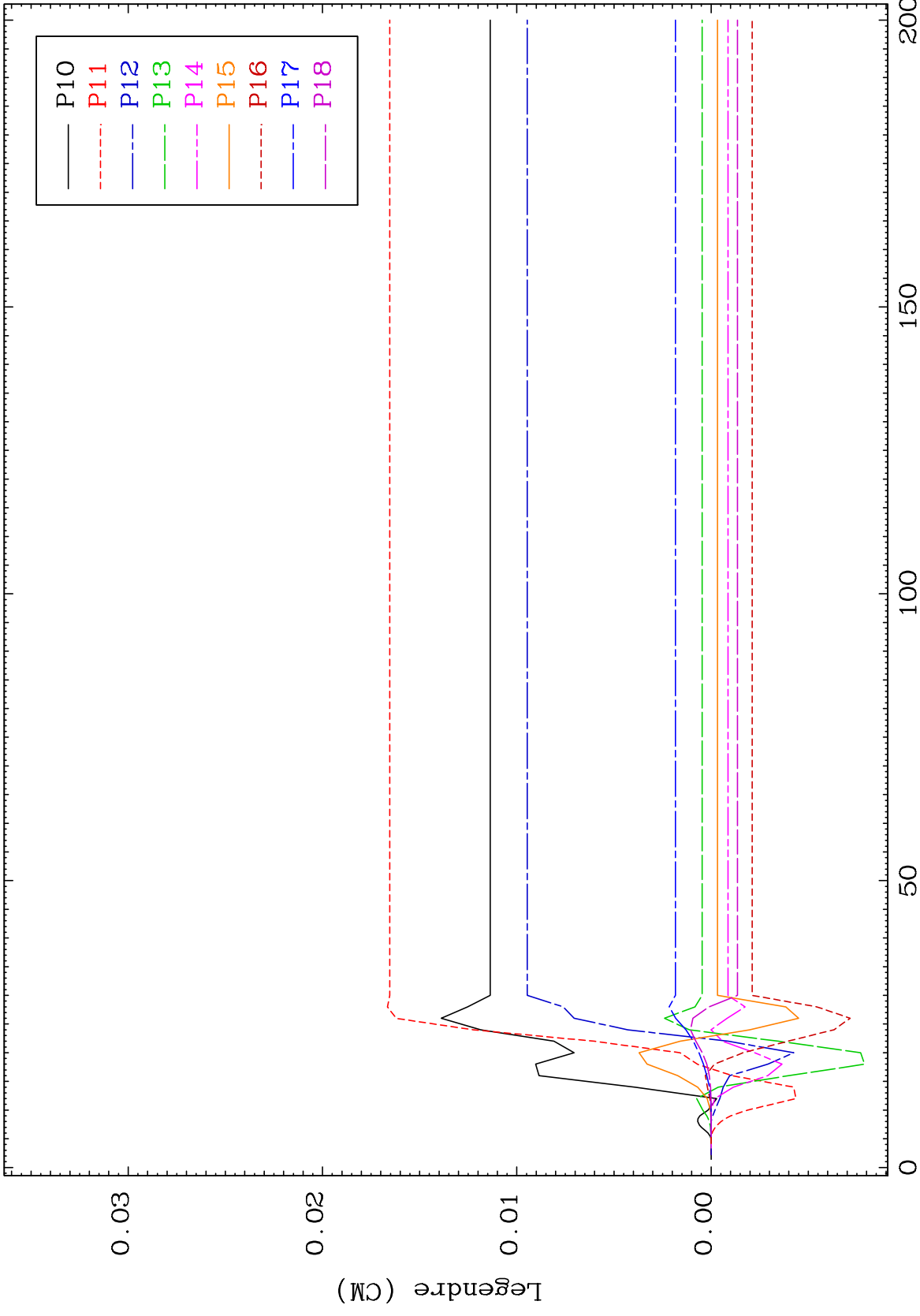
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



52

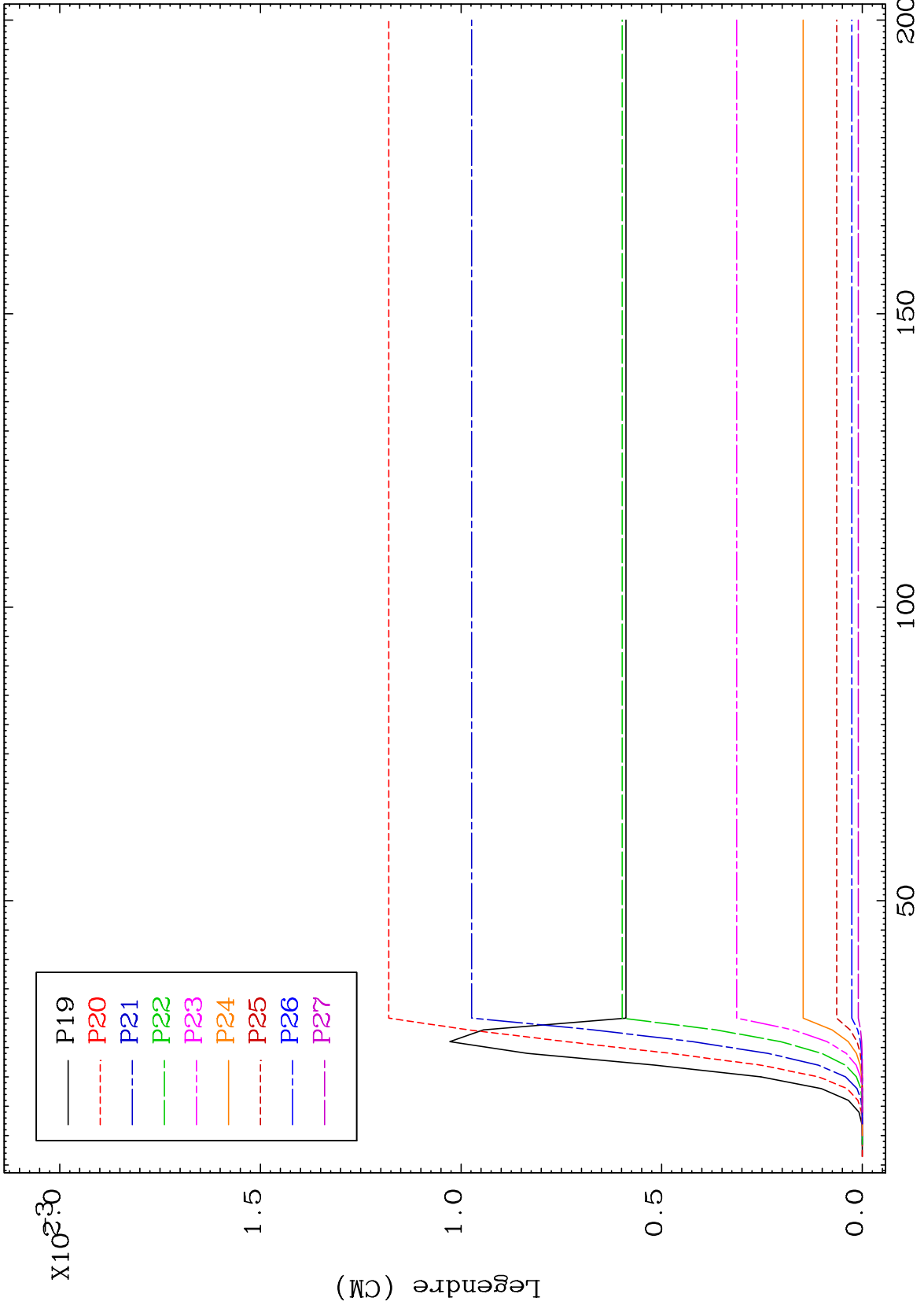
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



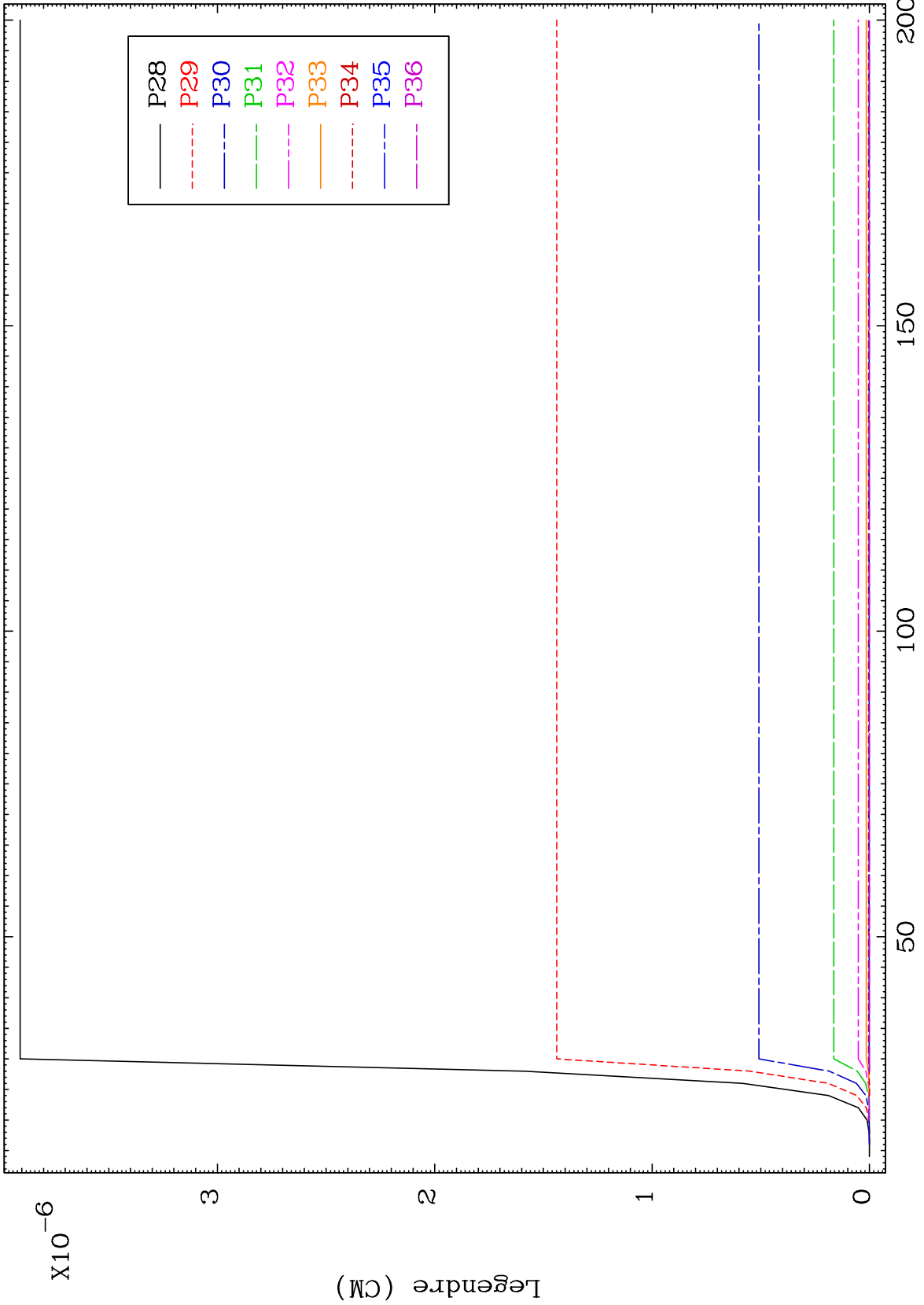
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61-Pm-142

MAT 6134

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

61-Pm-142



54

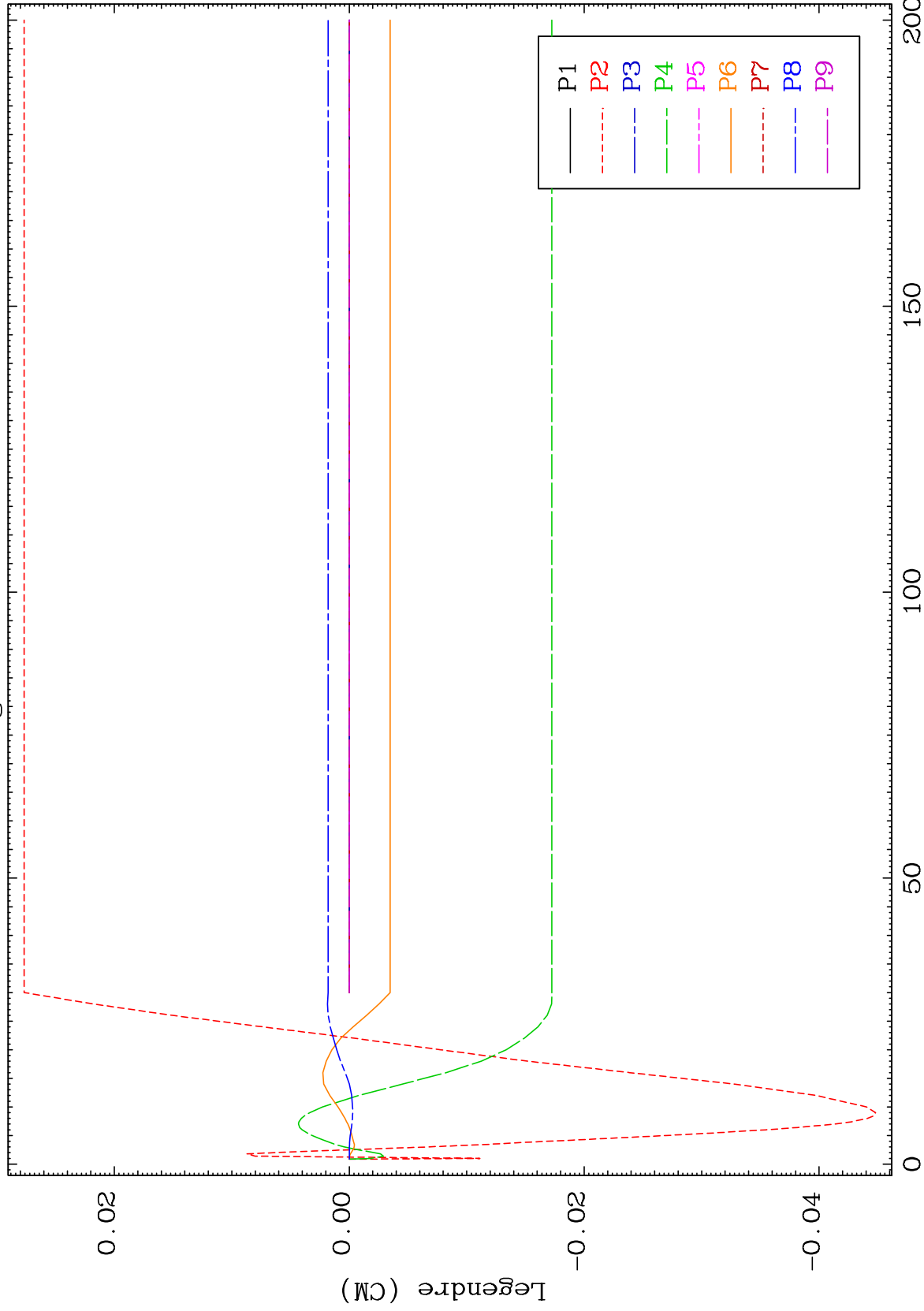
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



55

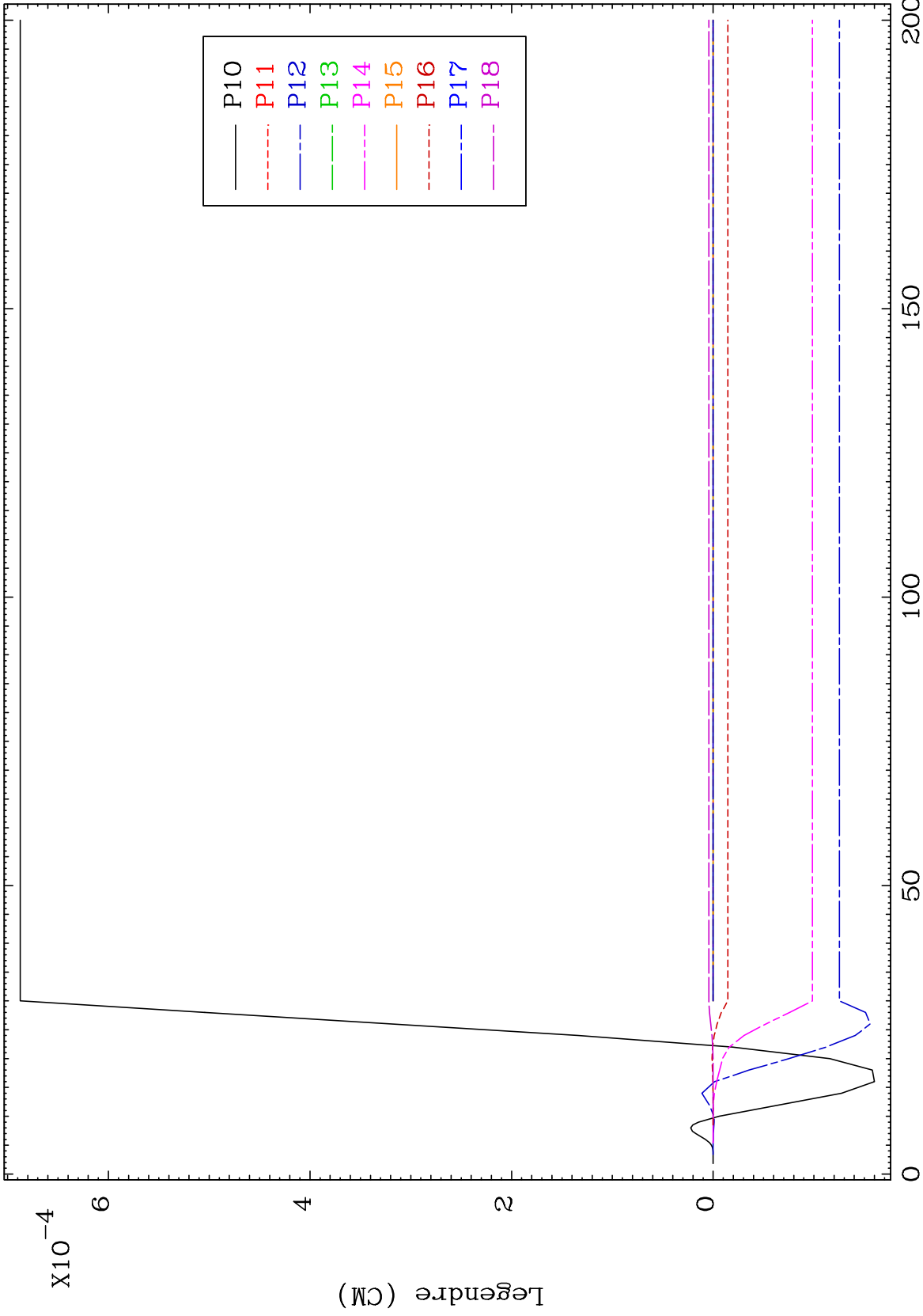
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



56

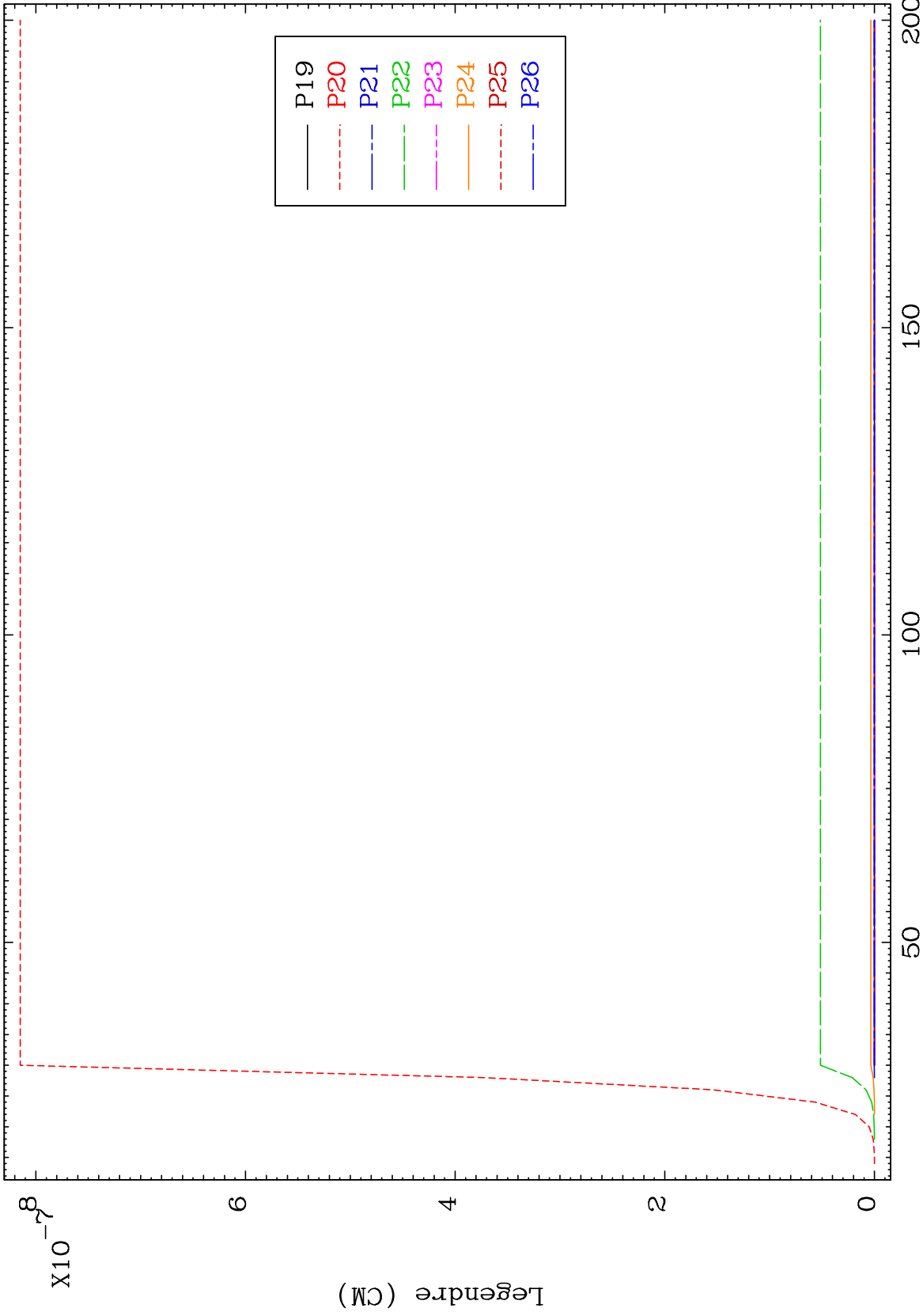
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



57

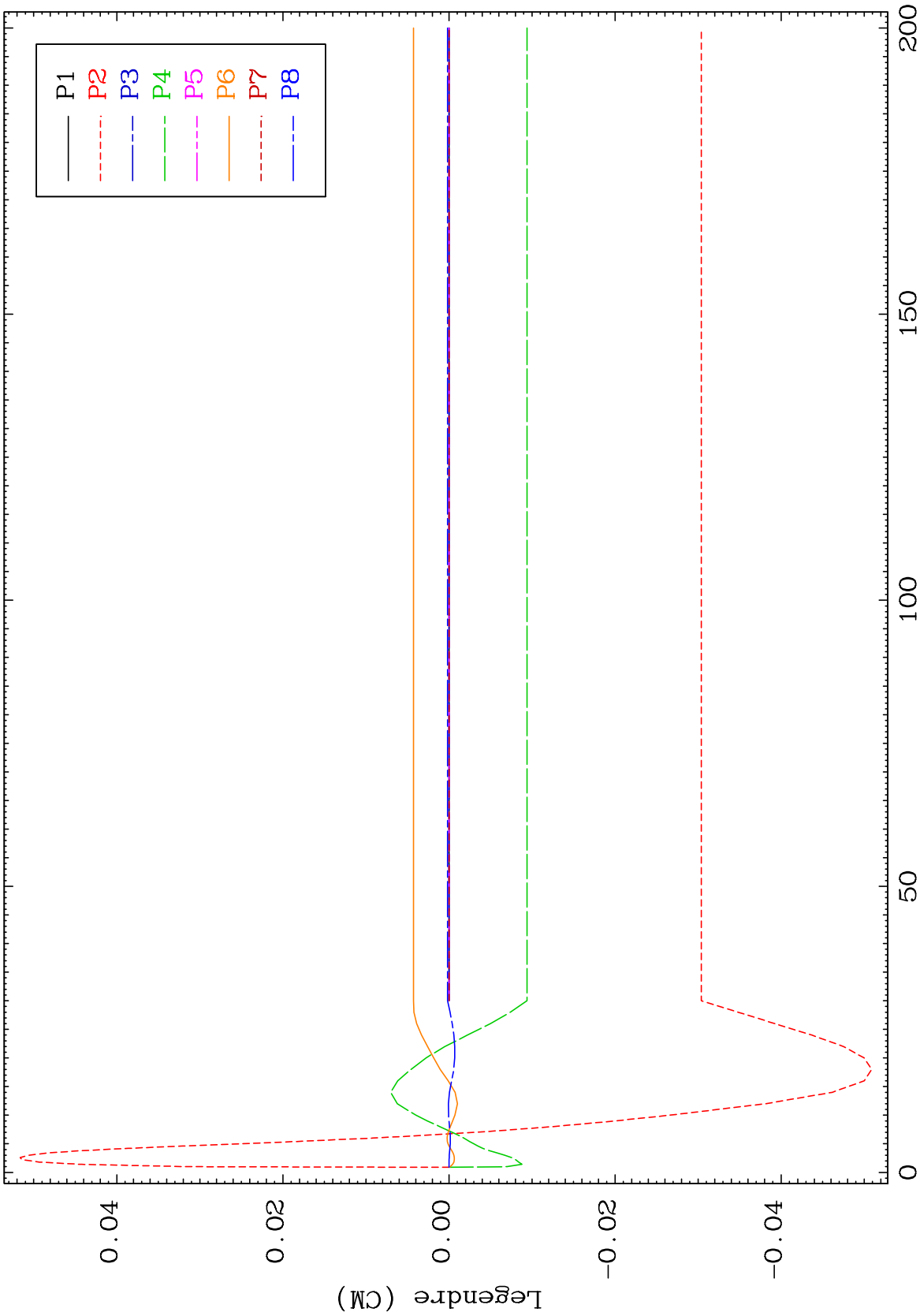
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142

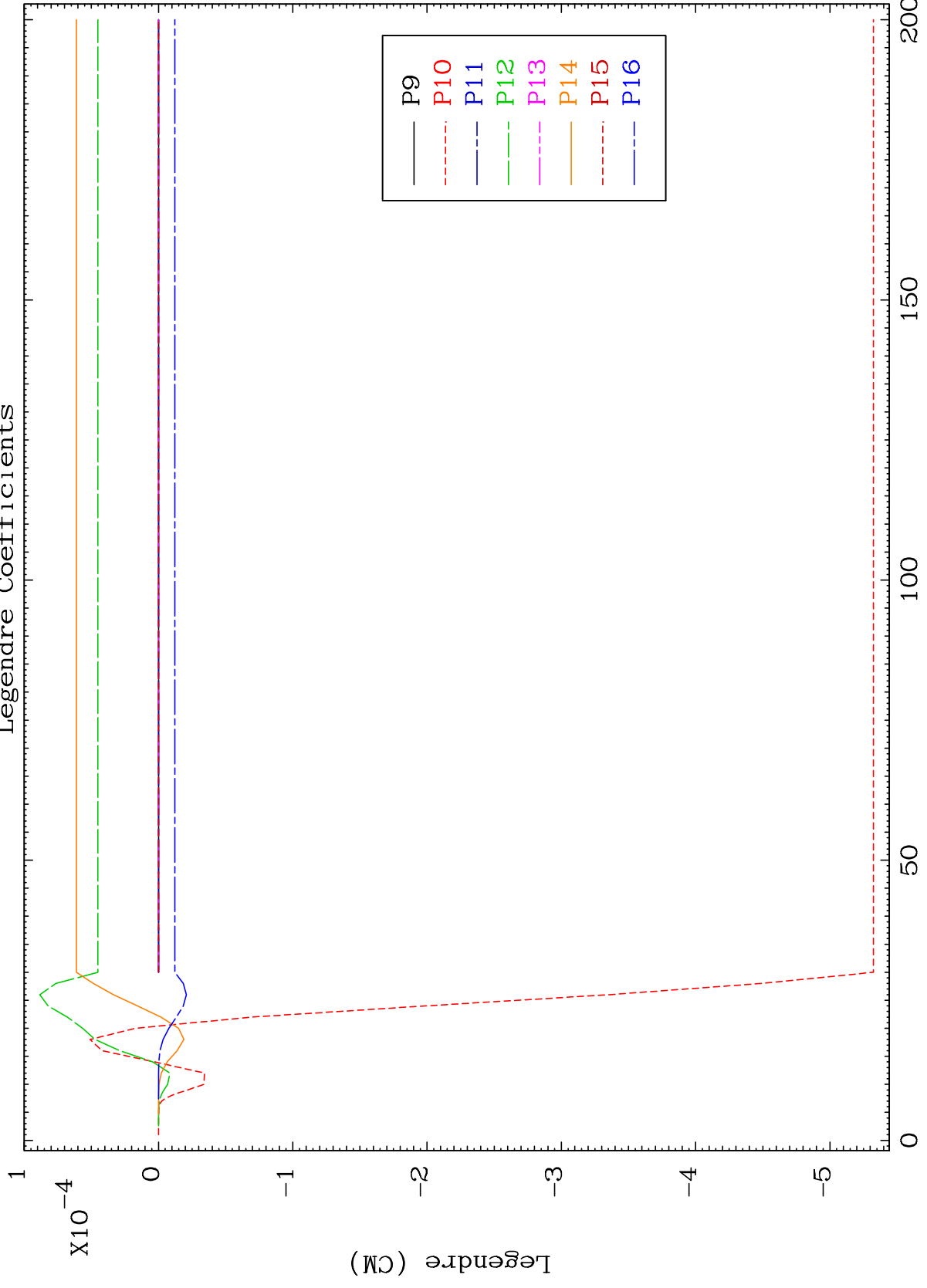


58

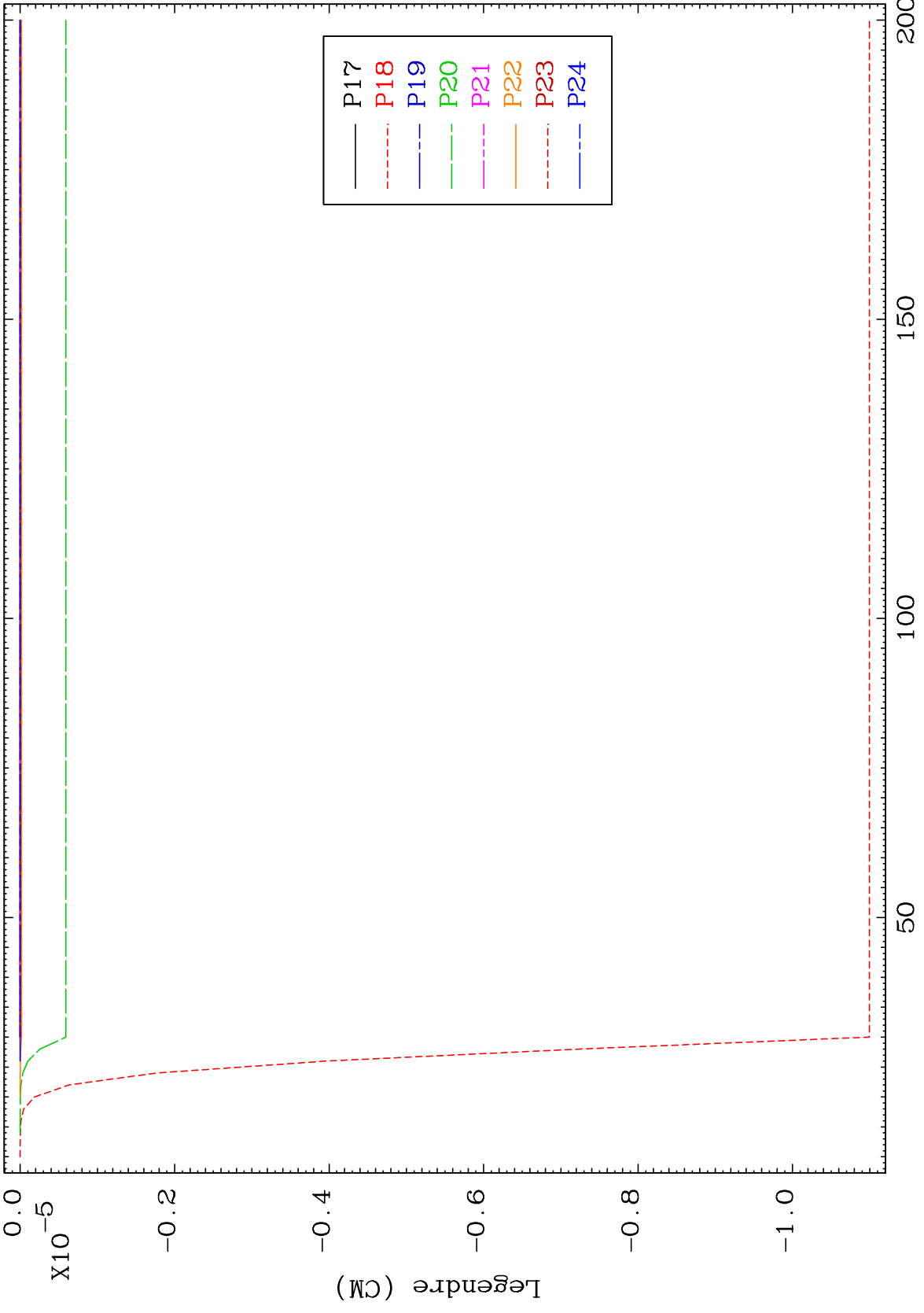
Incident Energy (MeV)

61-Pm-142

MAT 6134 MT= 62 (n,n') Level Legendre Coefficients 61-Pm-142



MAT 6134 MT= 62 (n,n') Level Legendre Coefficients 61-Pm-142

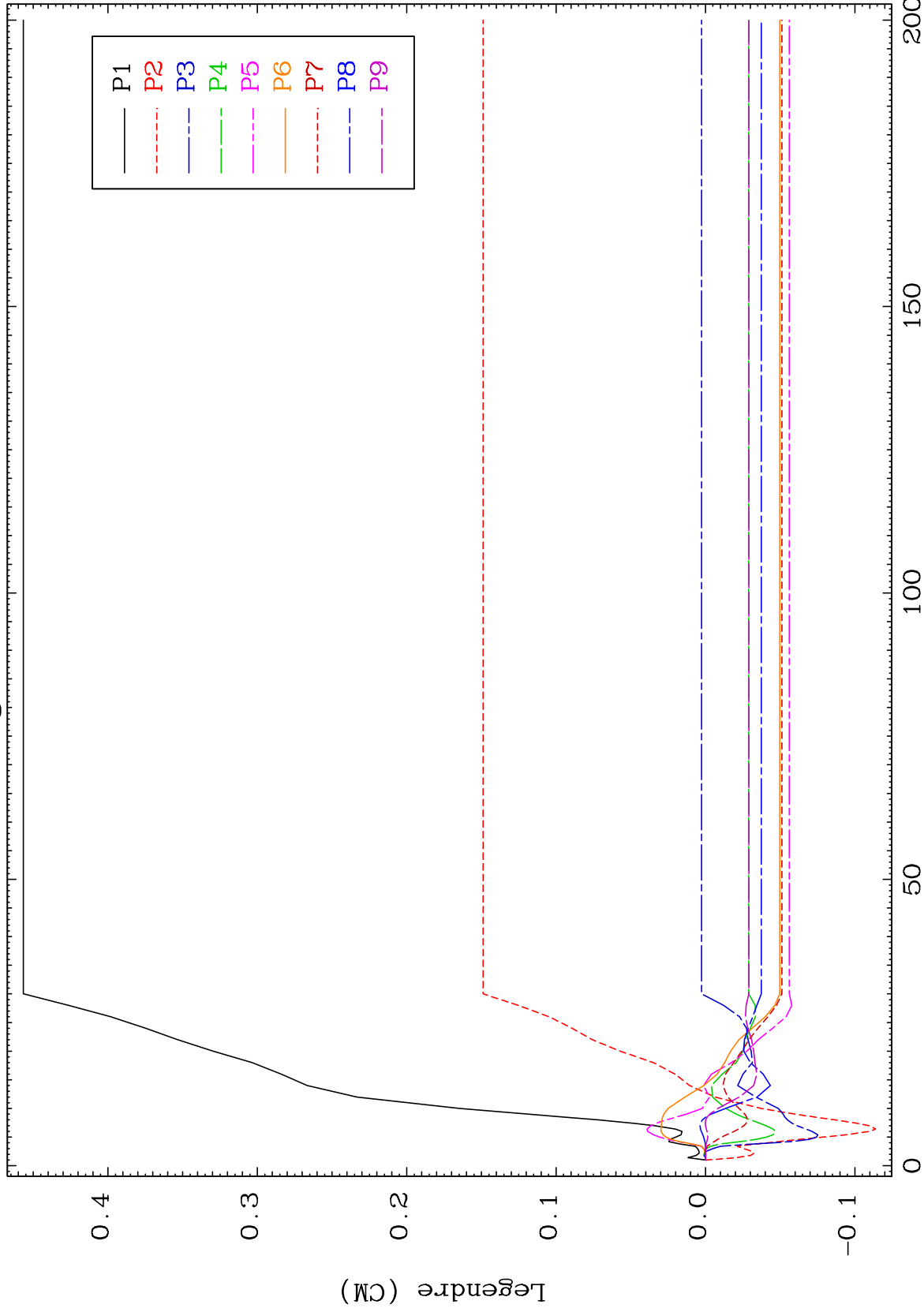


61-Pm-142 Incident Energy (MeV) 60 50 100 150 200

MAT 6134

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

61-Pm-142



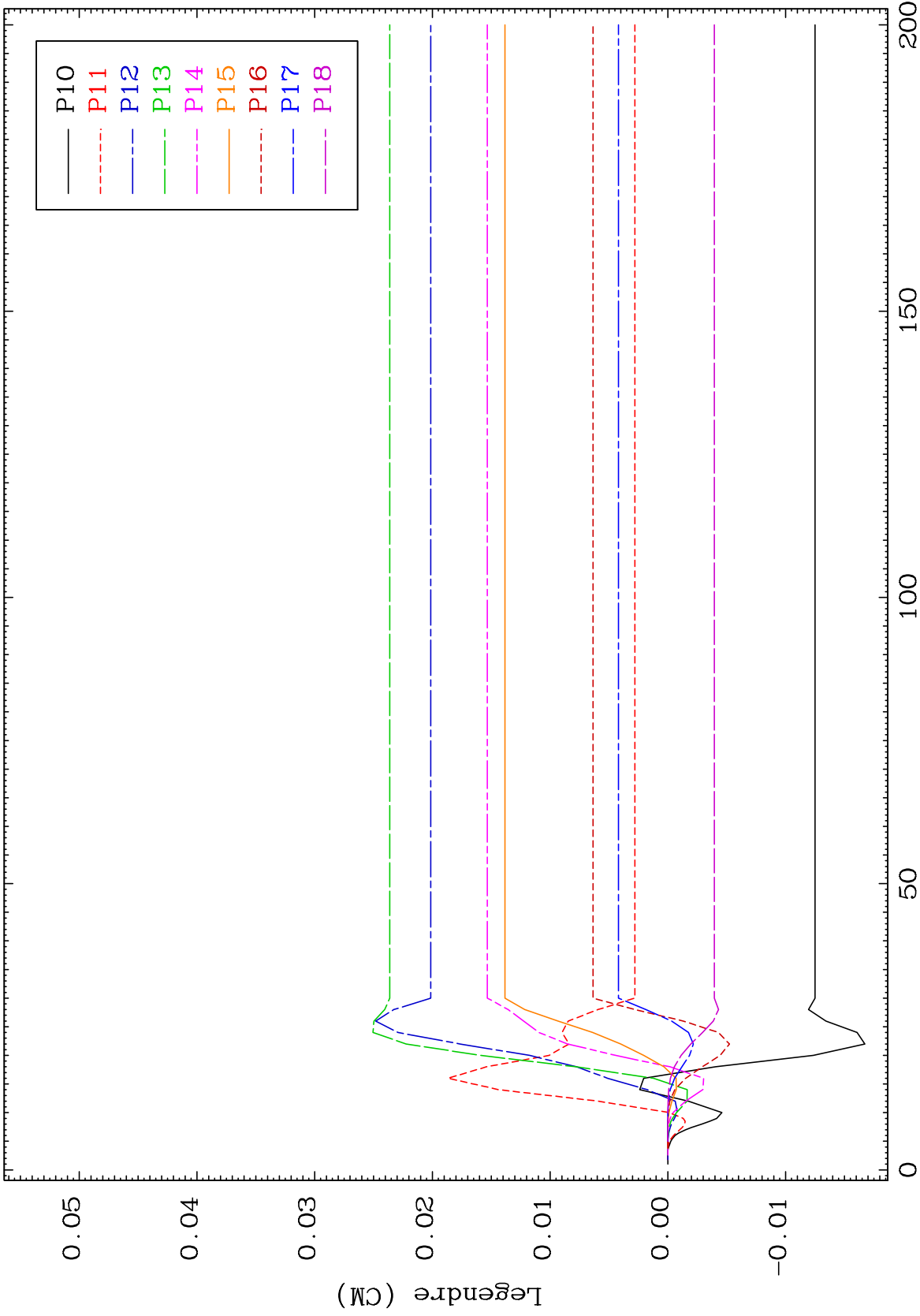
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61-Pm-142

MAT 6134

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

61-Pm-142



62

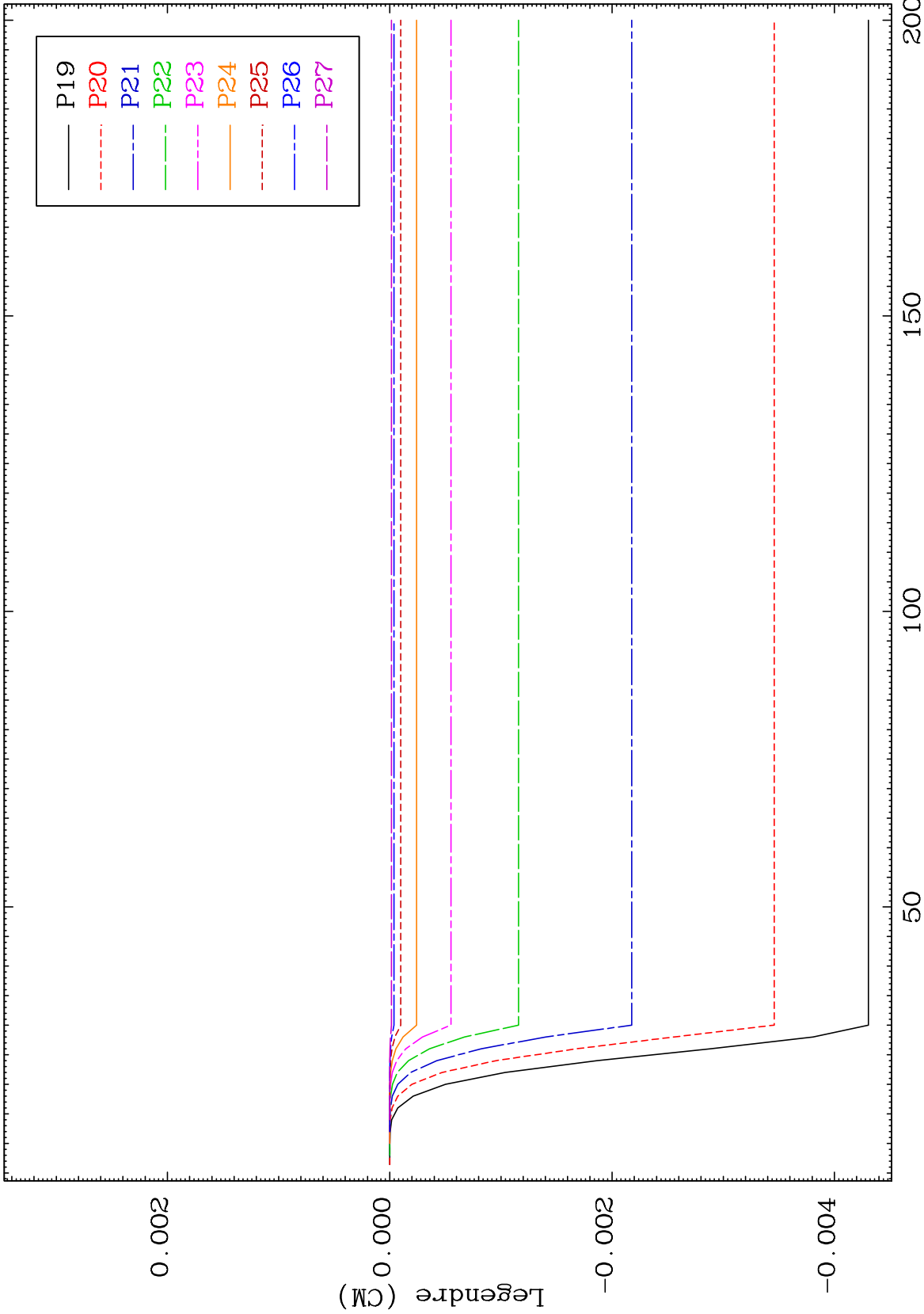
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142

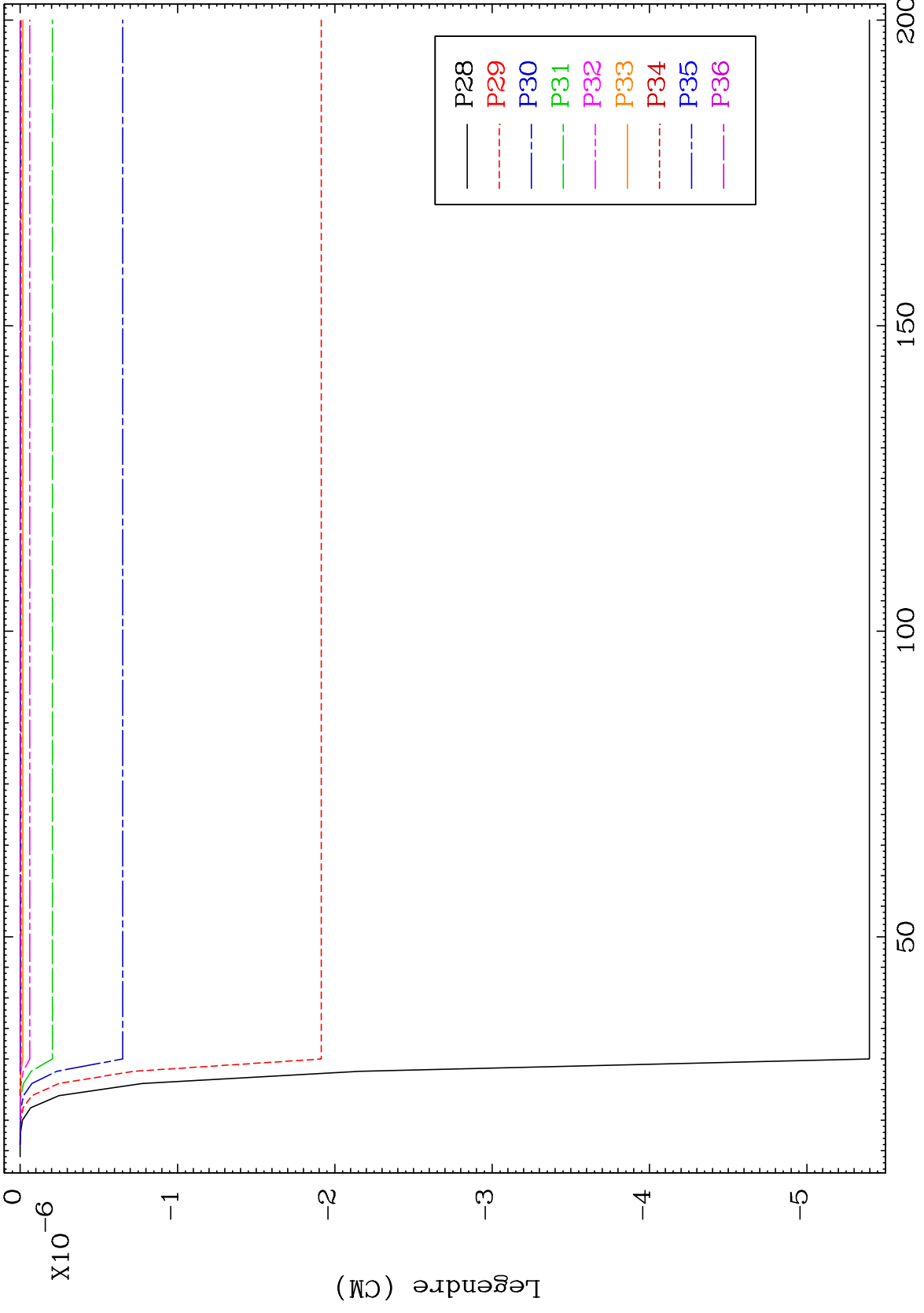


63

Incident Energy (MeV)

61-Pm-142

MAT 6134 MT= 63 (n,n') Level Legendre Coefficients 61-Pm-142

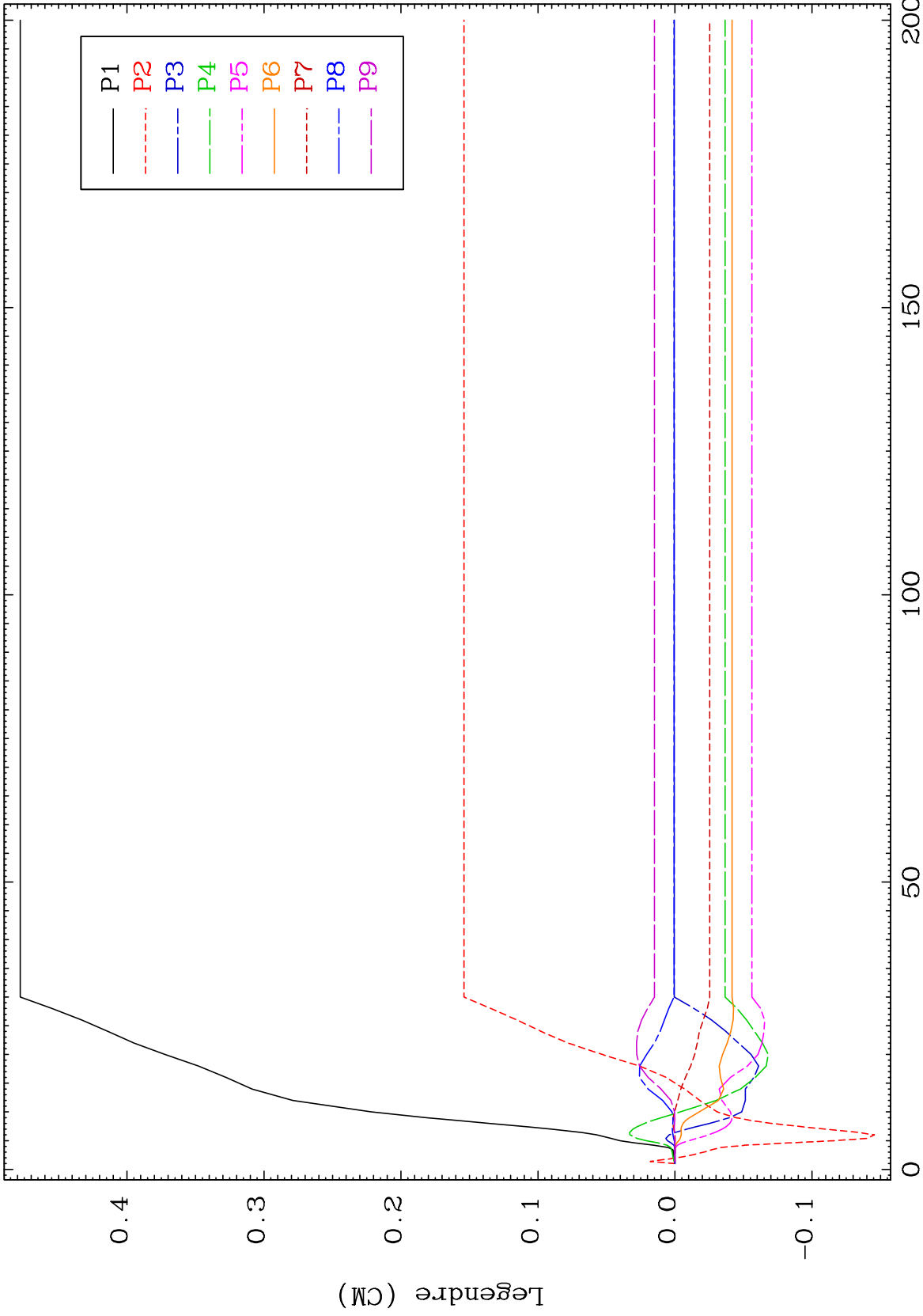


64 61-Pm-142

MAT 6134

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

61-Pm-142



65

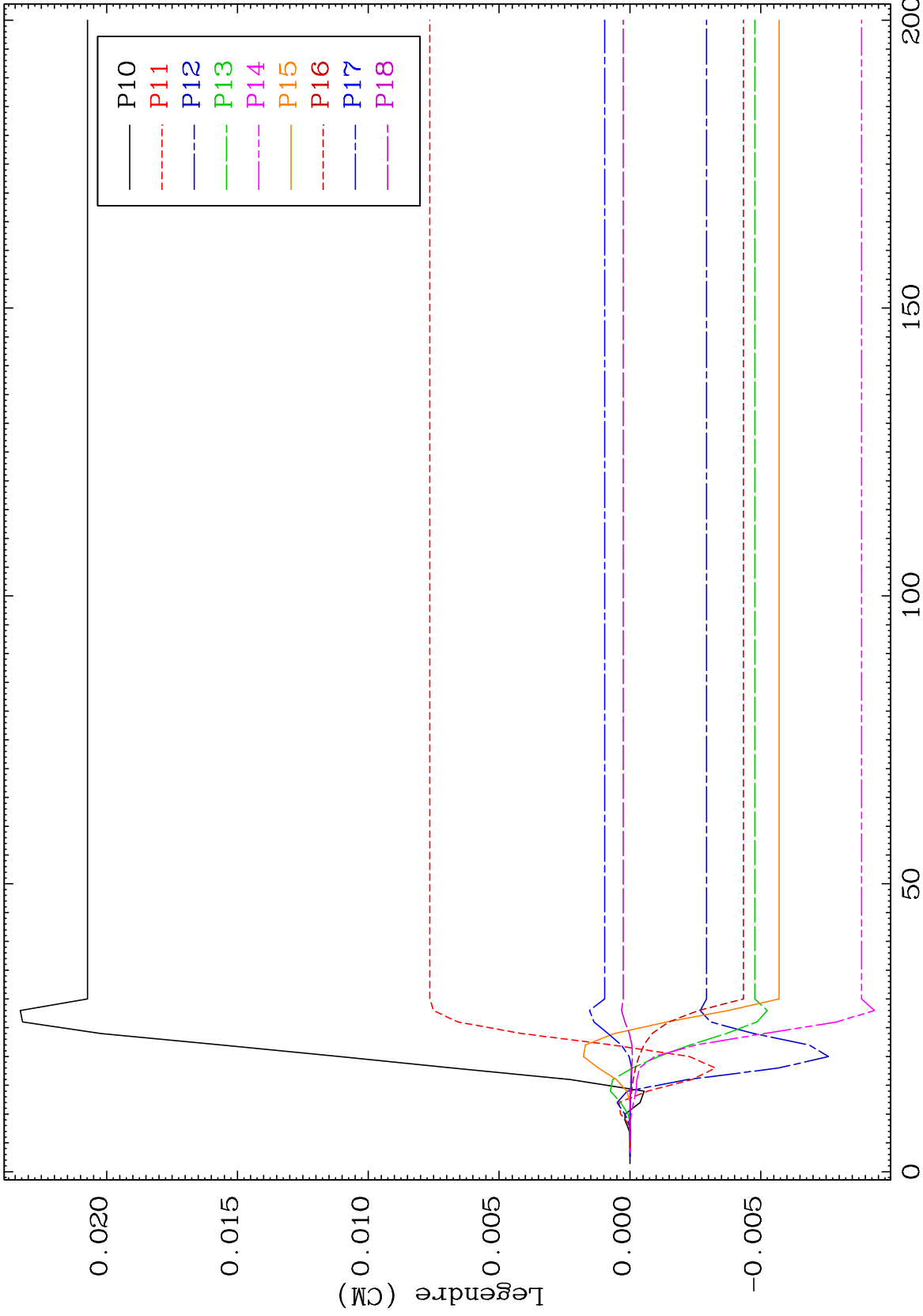
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



66

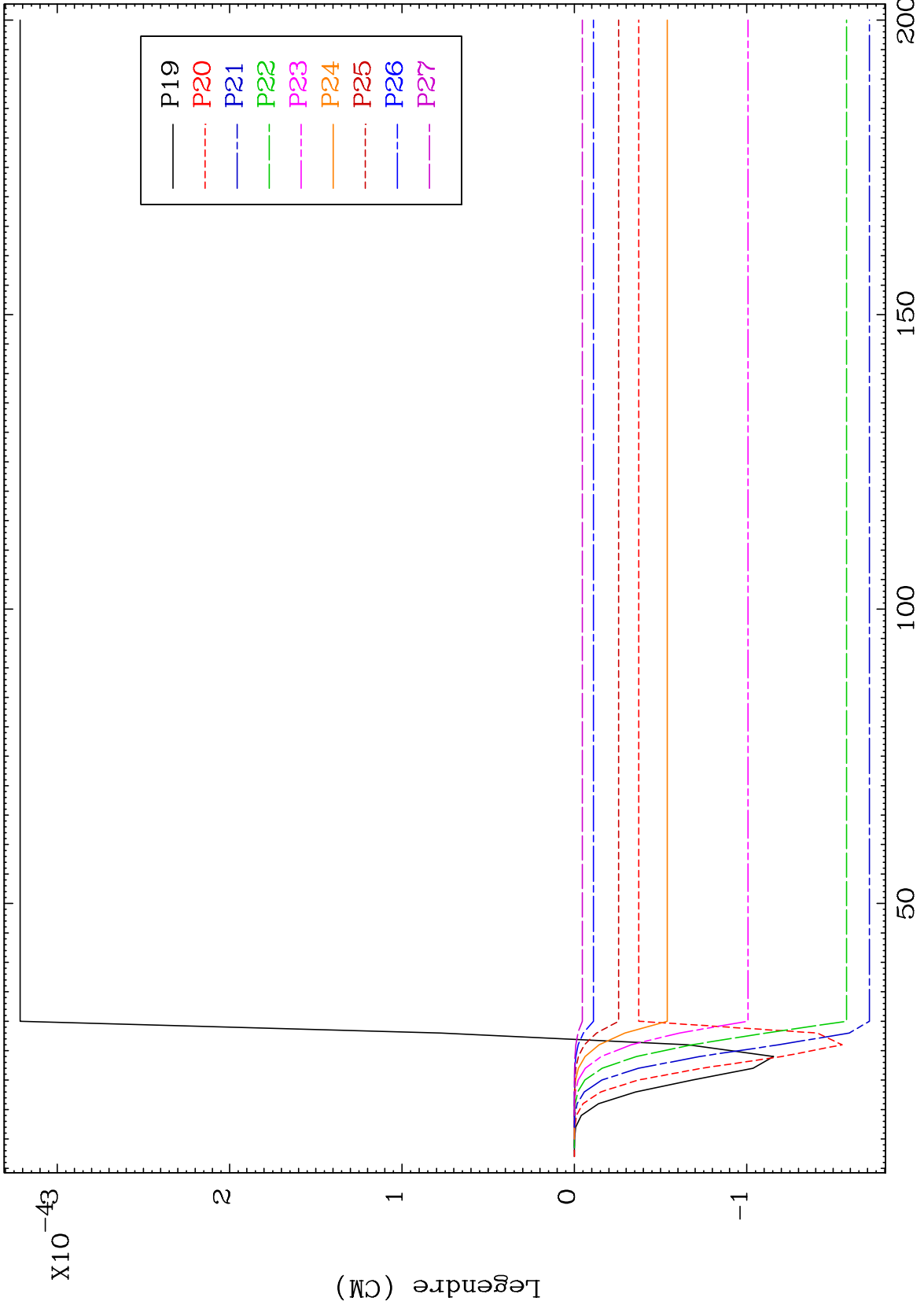
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



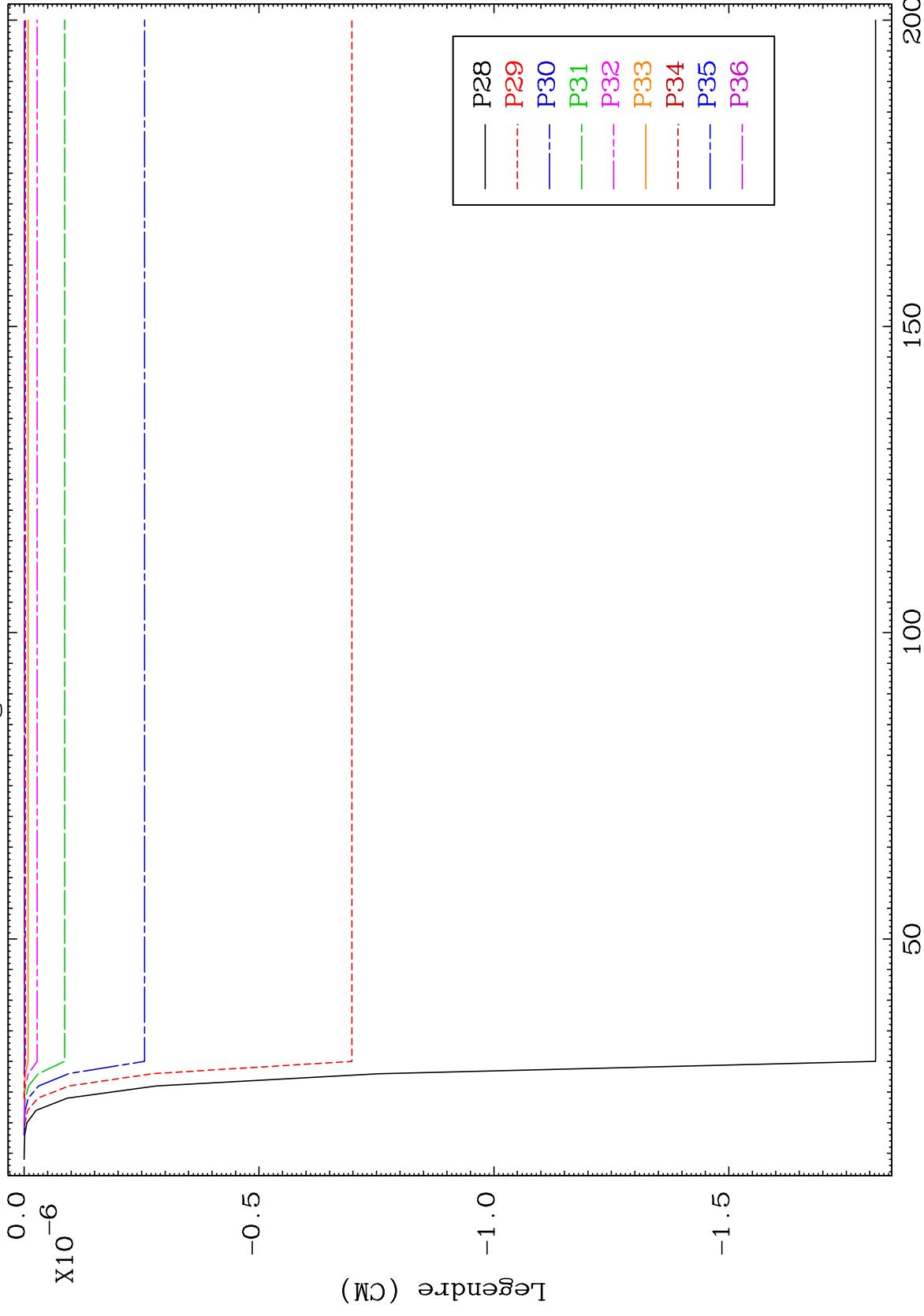
67

61-Pm-142

MAT 6134

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

61-Pm-142



61-Pm-142

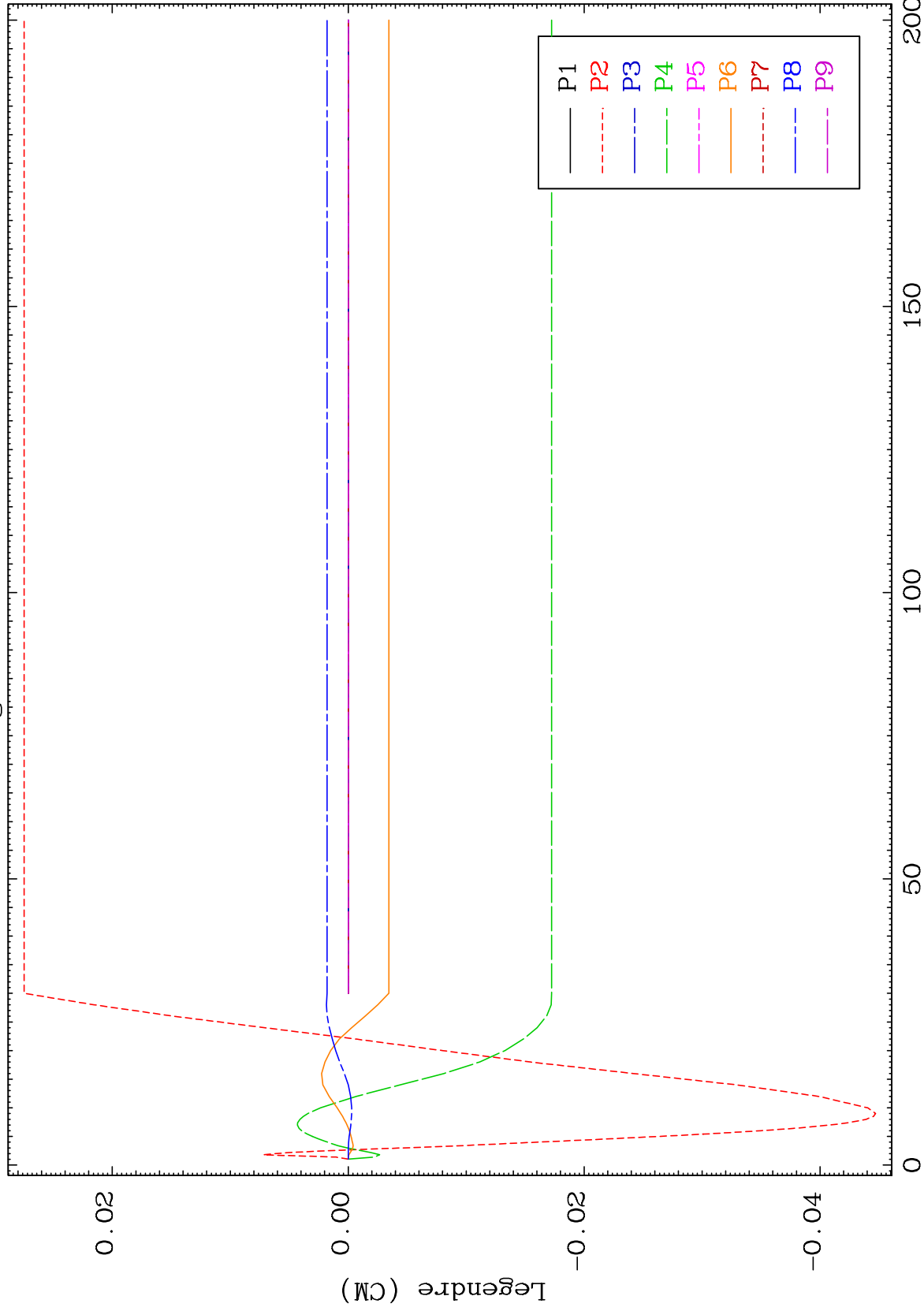
Incident Energy (MeV)

68

MAT 6134

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

61-Pm-142



69

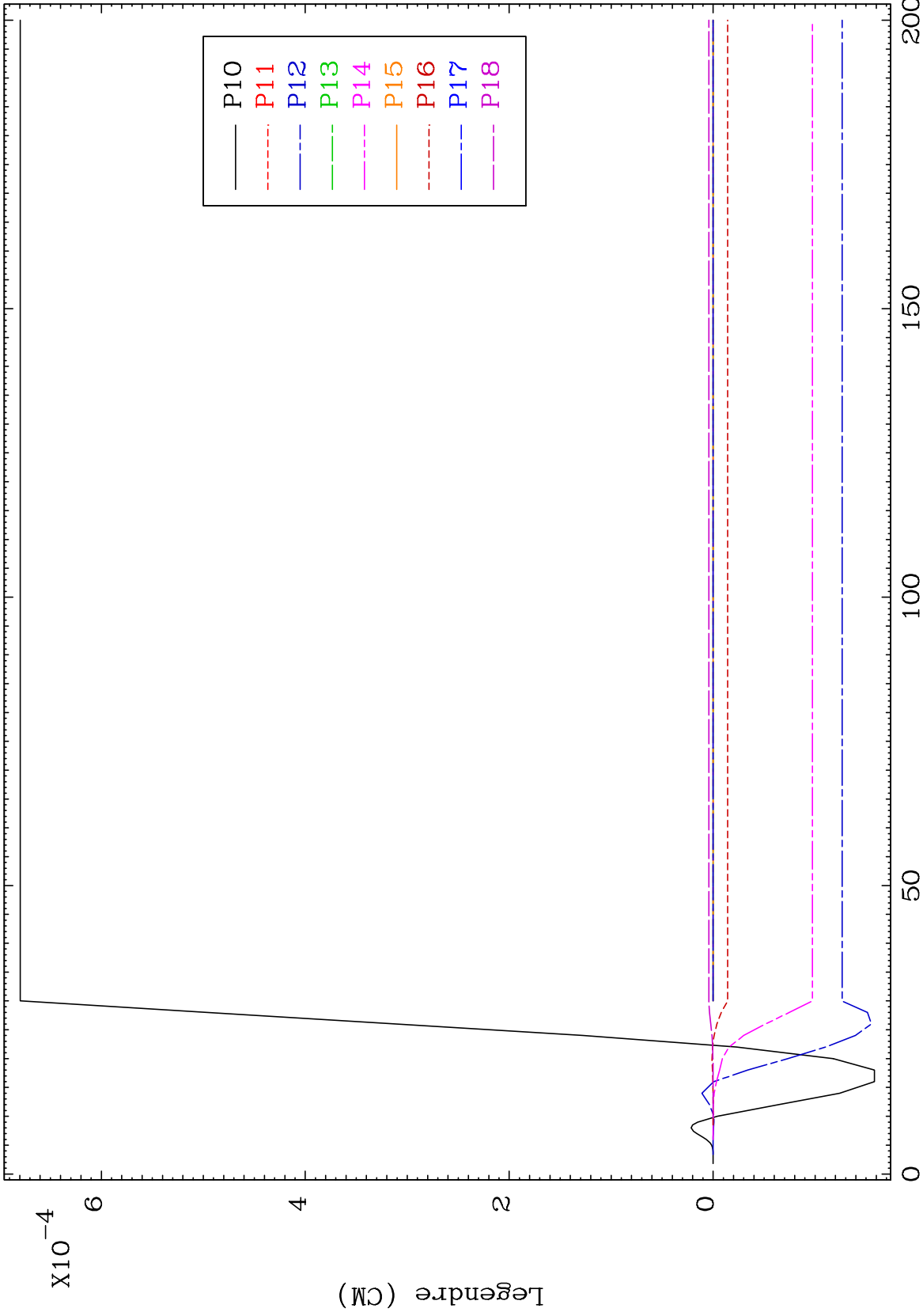
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142

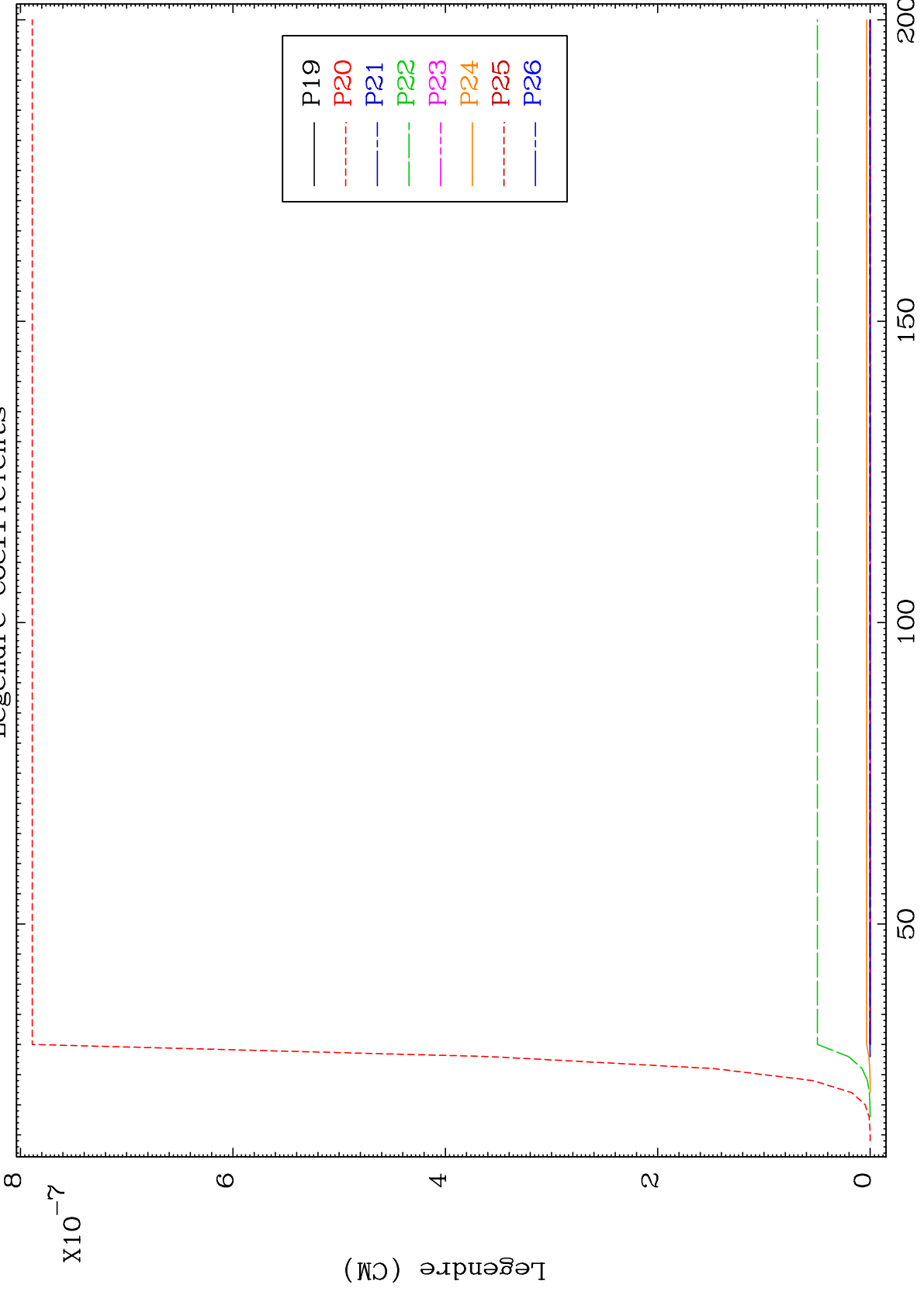


70

Incident Energy (MeV)

61-Pm-142

MAT 6134 MT= 65 (n,n') Level Legendre Coefficients 61-Pm-142

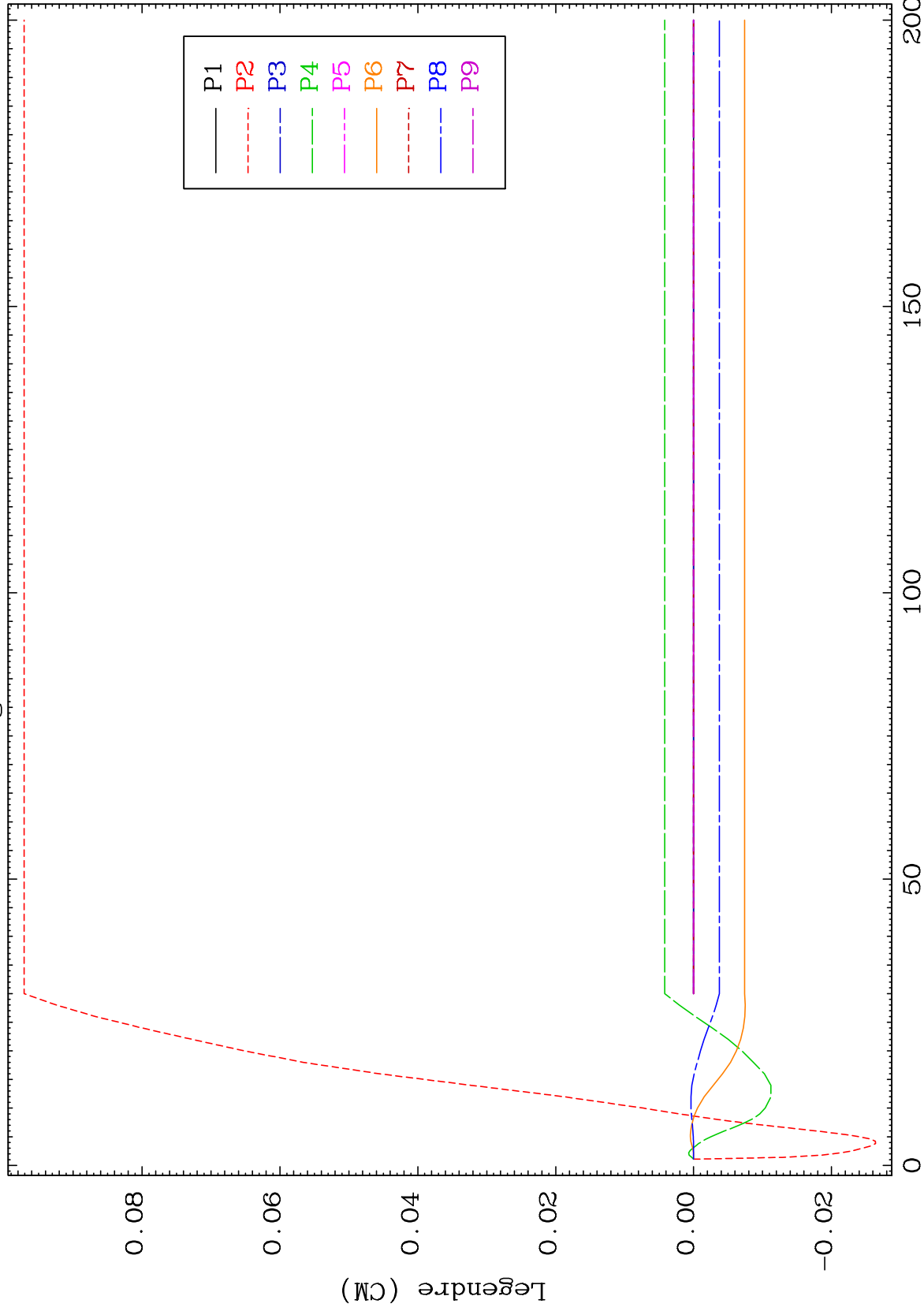


71 61-Pm-142

MAT 6134

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

61-Pm-142



72

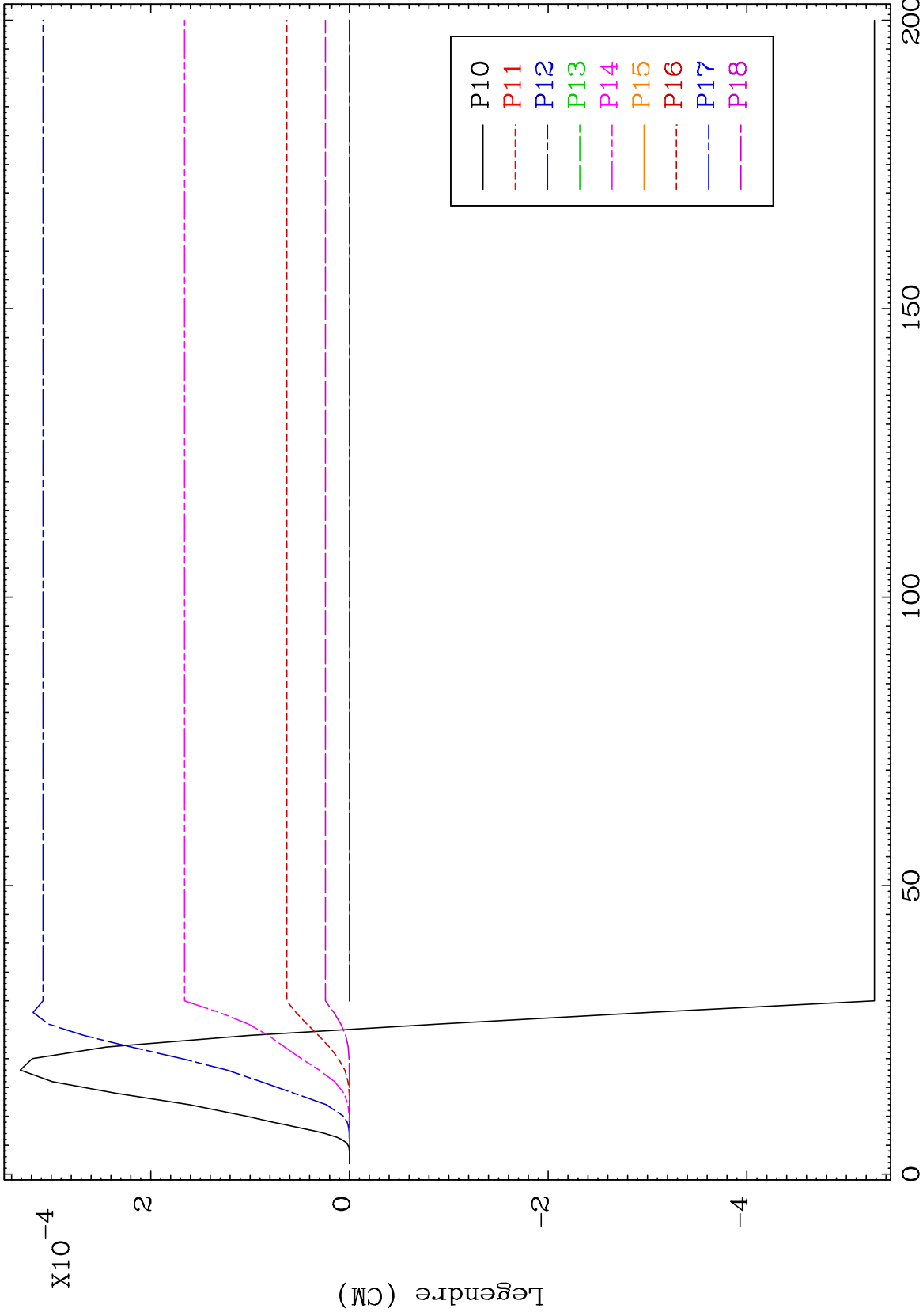
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



73

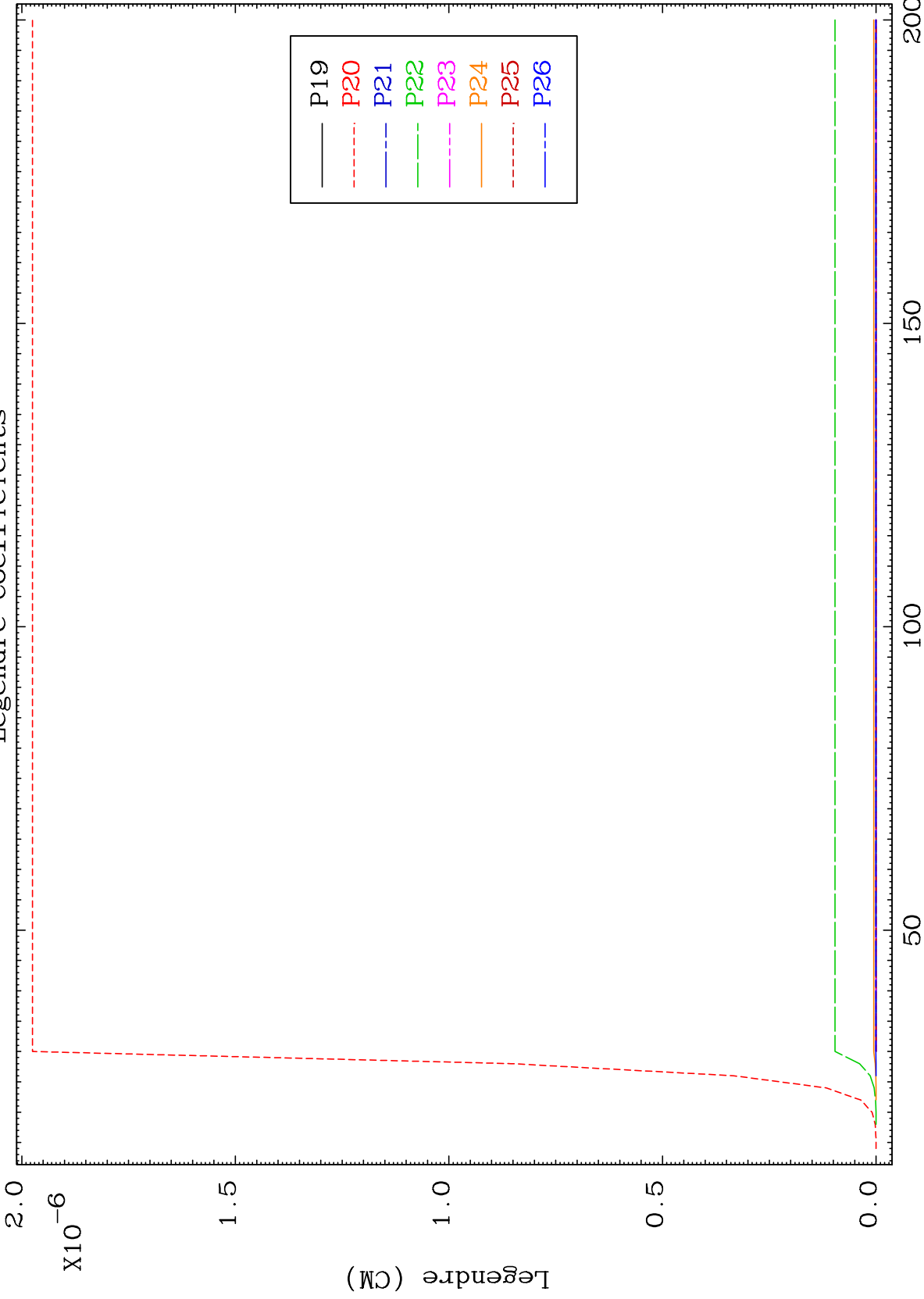
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



61-Pm-142

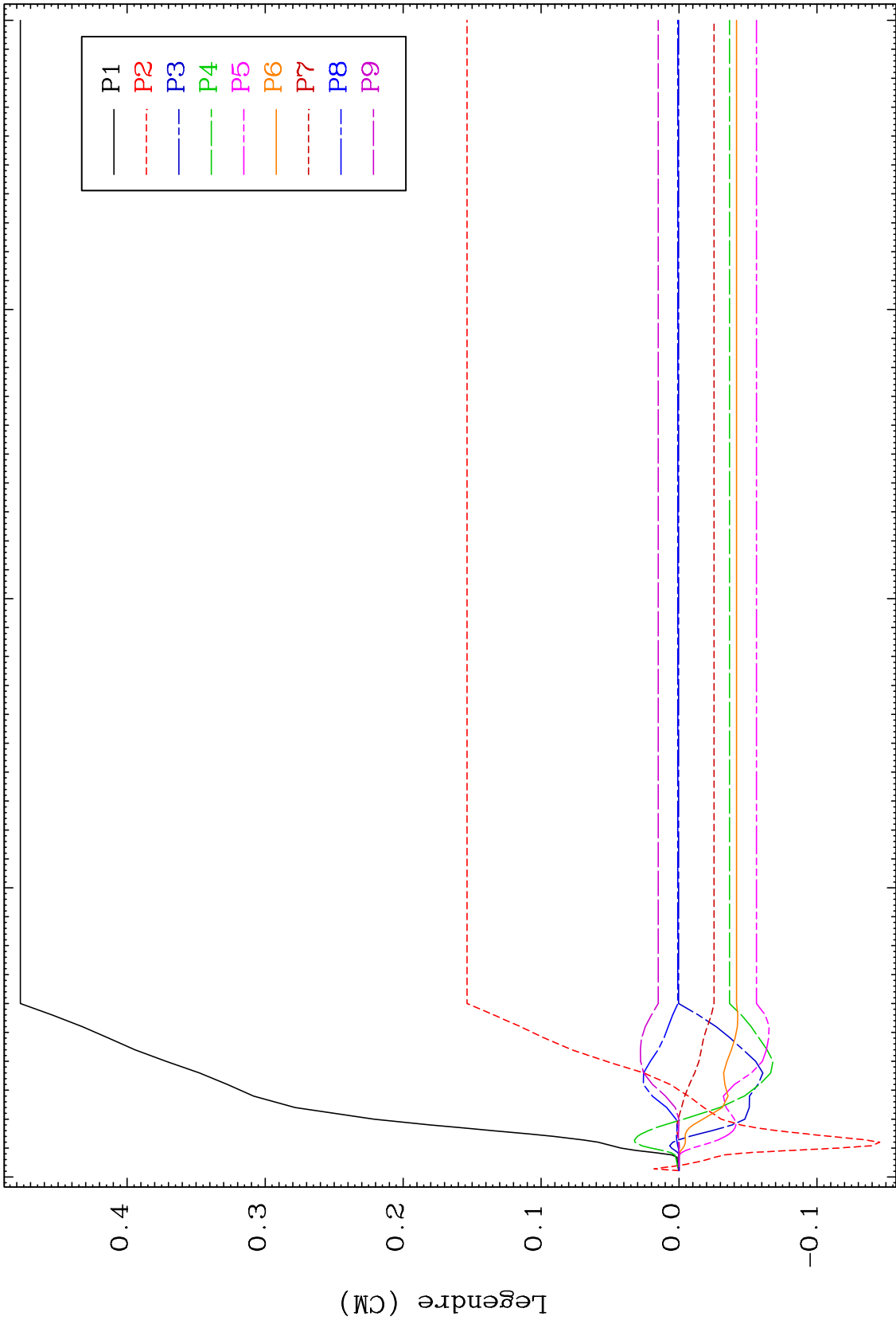
Incident Energy (MeV)

74

MAT 6134

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

61-Pm-142



61-Pm-142

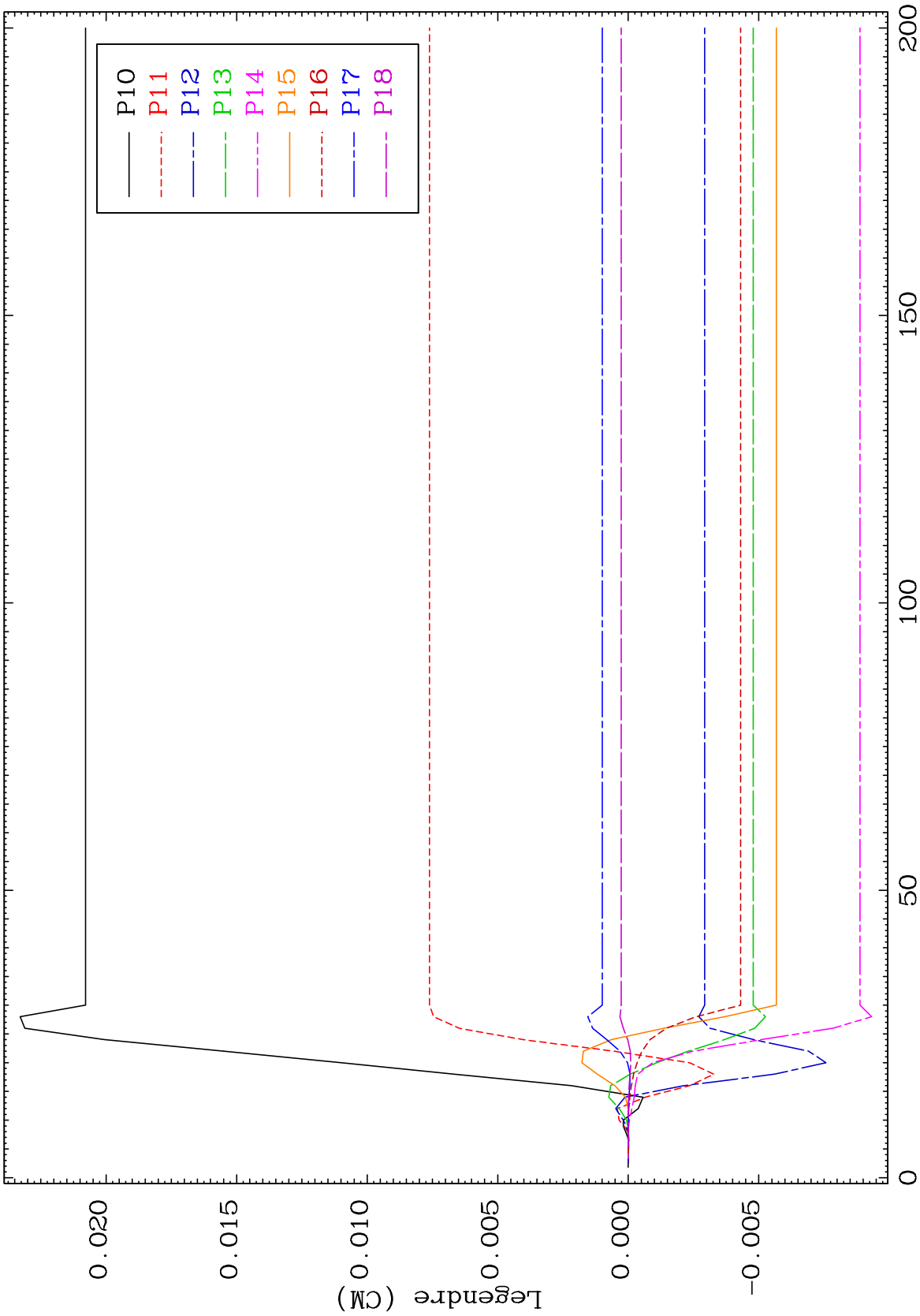
Incident Energy (MeV)

75

MAT 6134

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

61-Pm-142



76

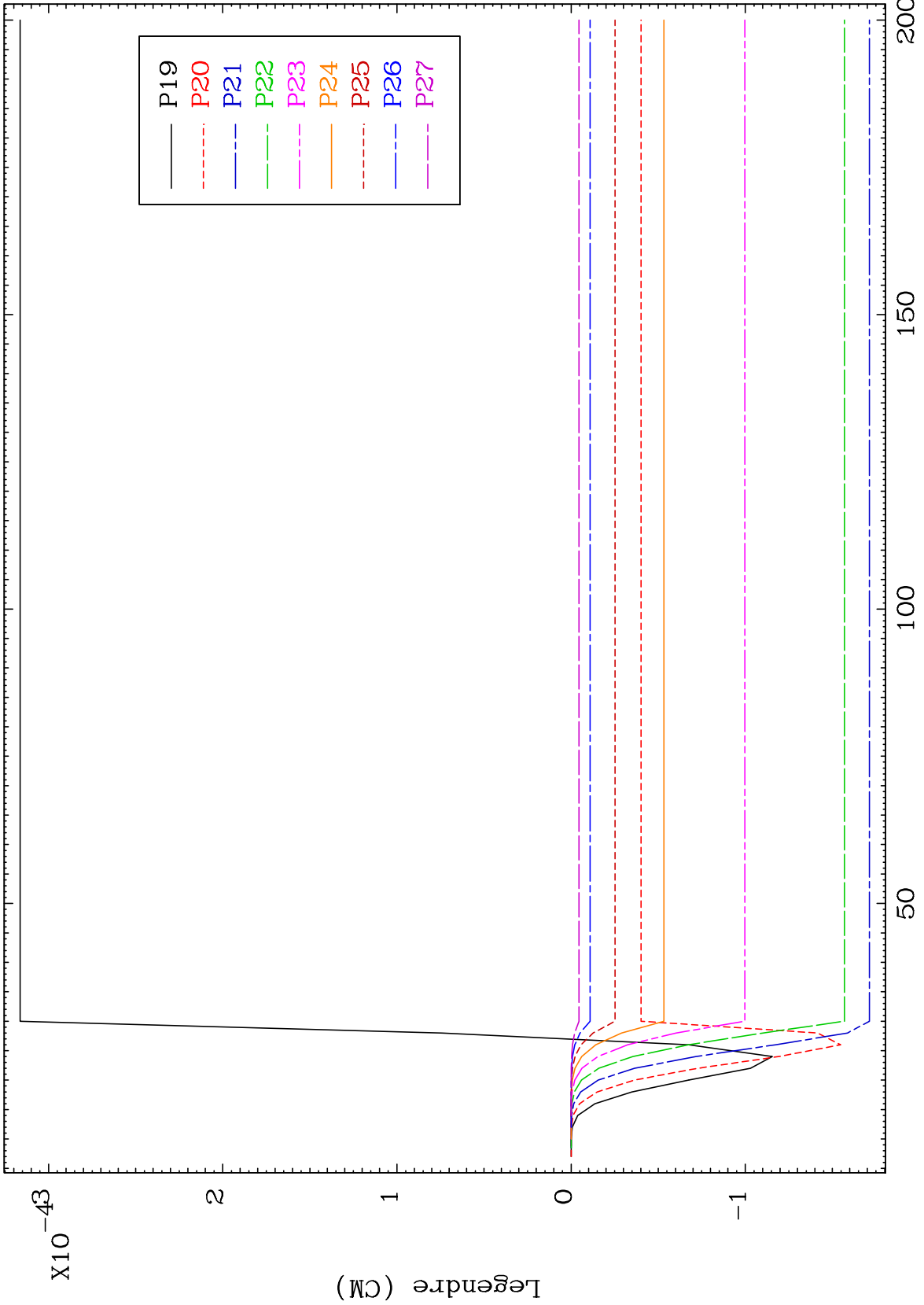
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



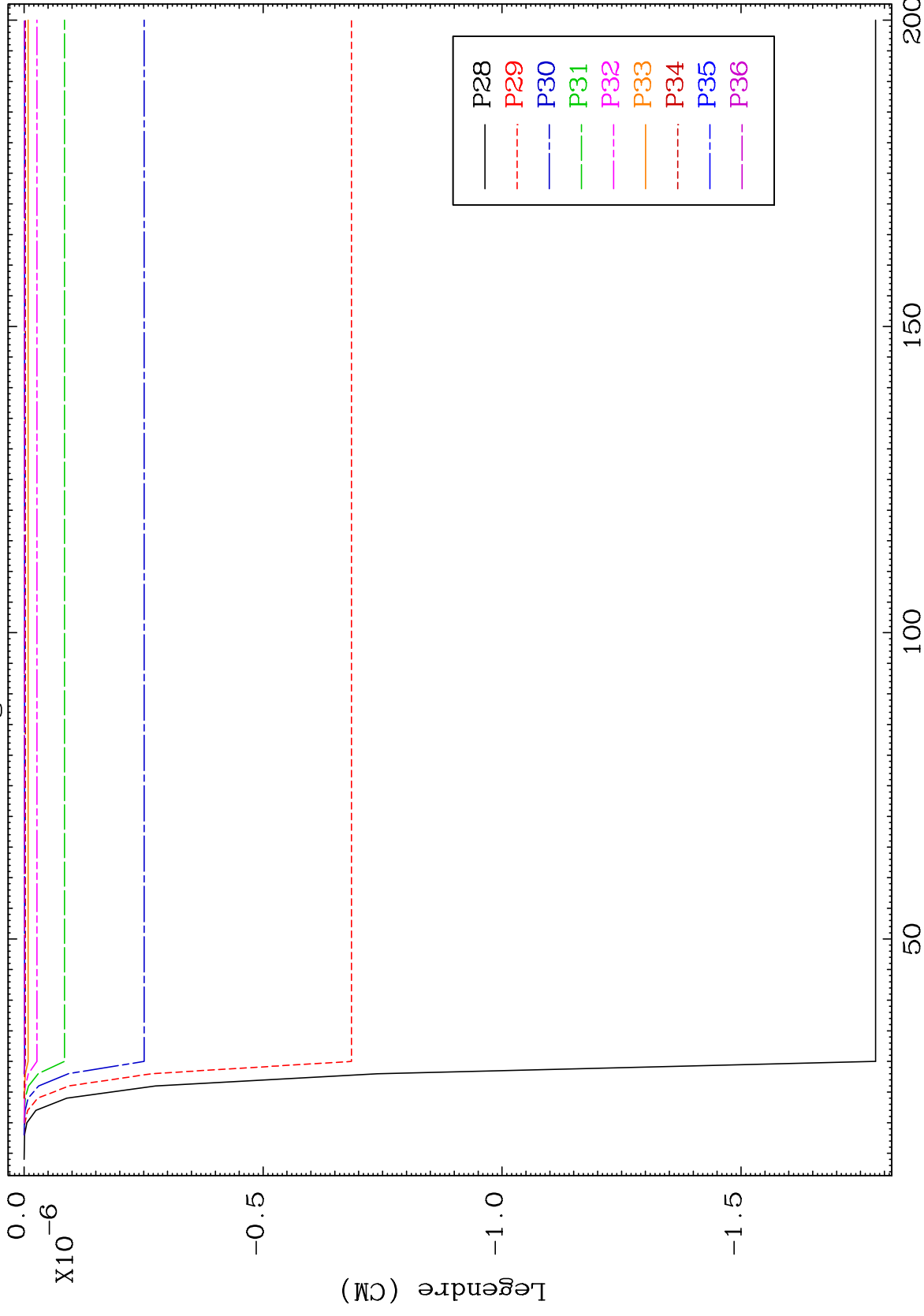
77

61-Pm-142

MAT 6134

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

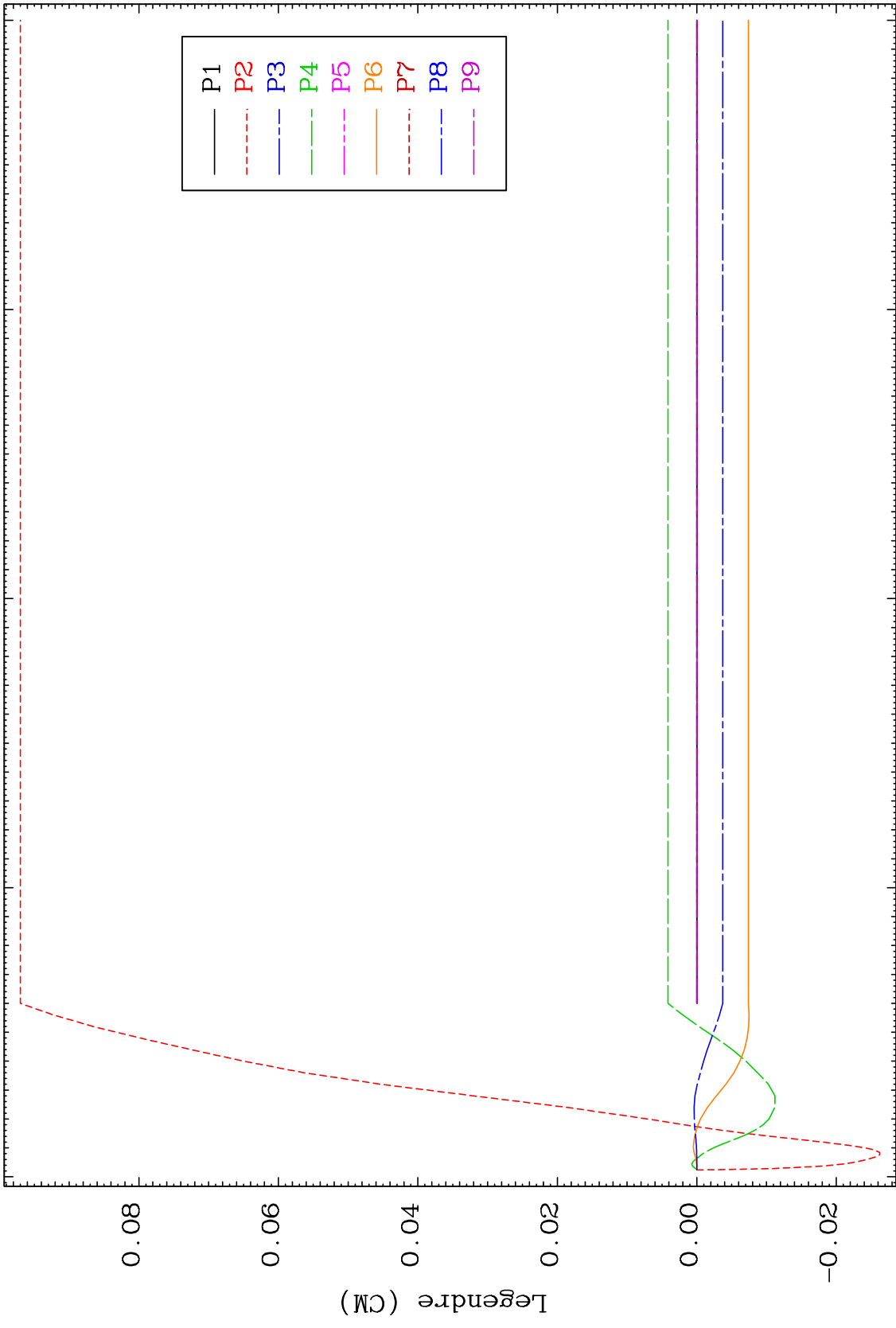
61-Pm-142



78

61-Pm-142

MAT 6134 MT= 68 (n,n') Level Legendre Coefficients 61-Pm-142

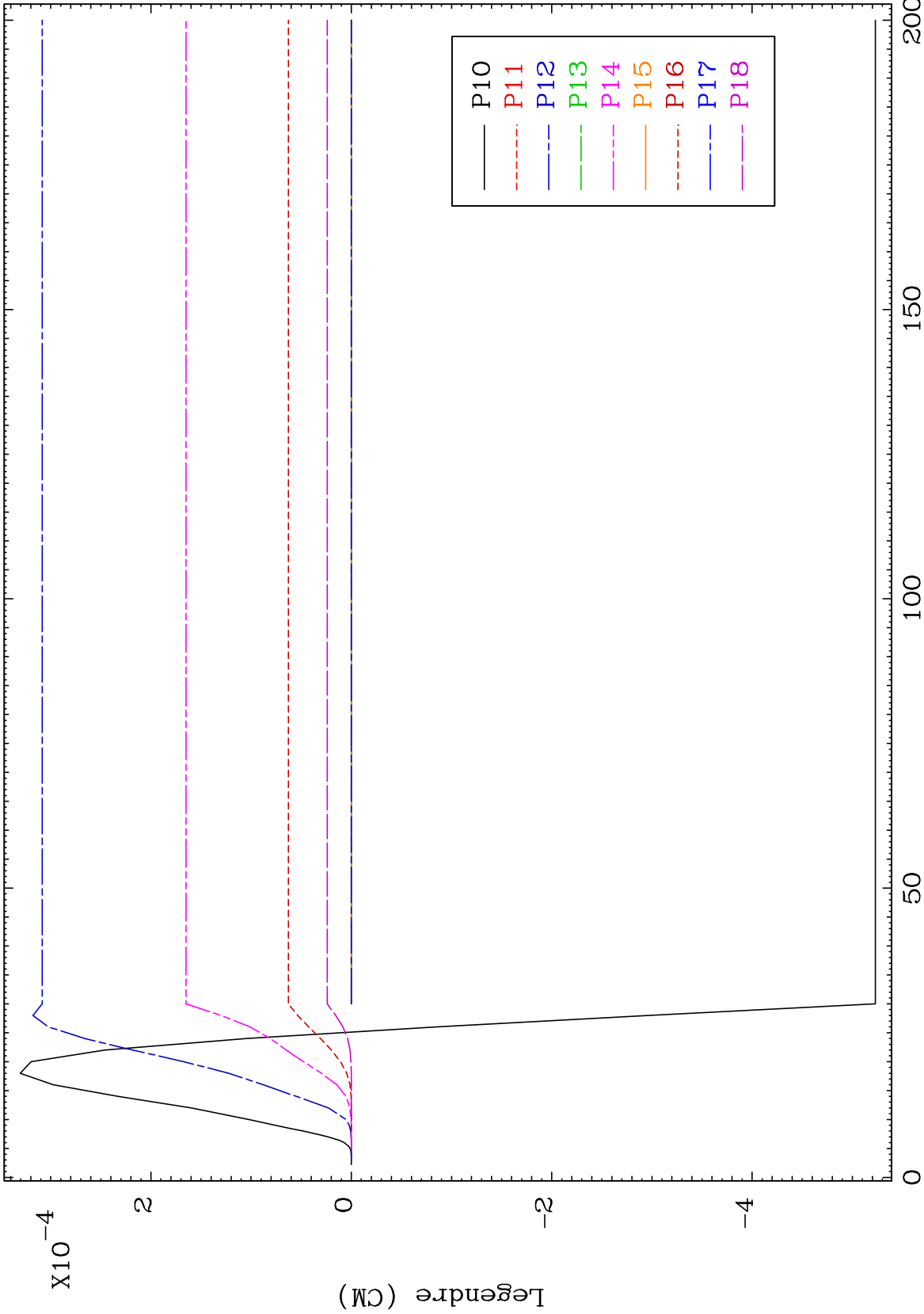


79 61-Pm-142

MAT 6134

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

61-Pm-142



80

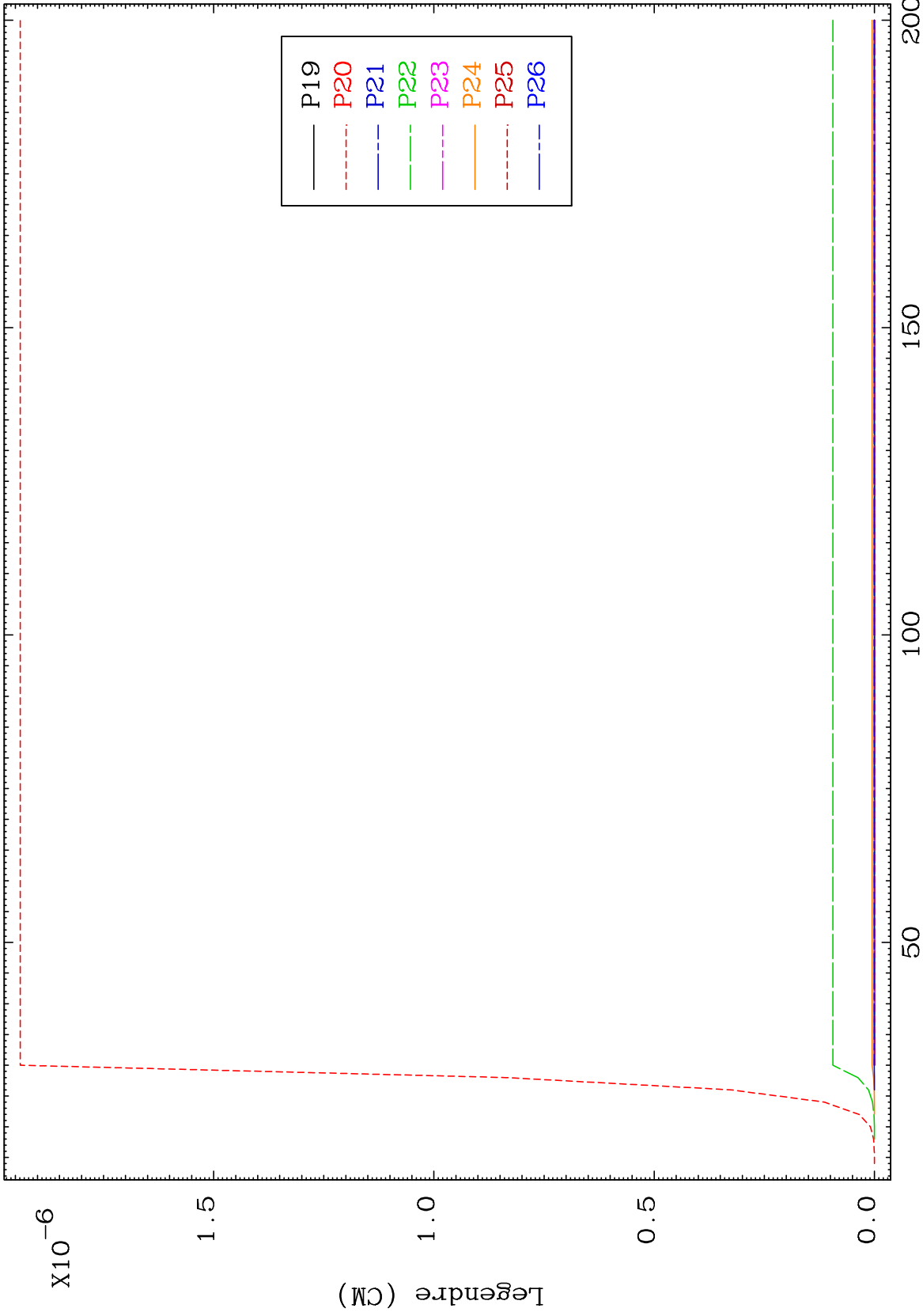
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



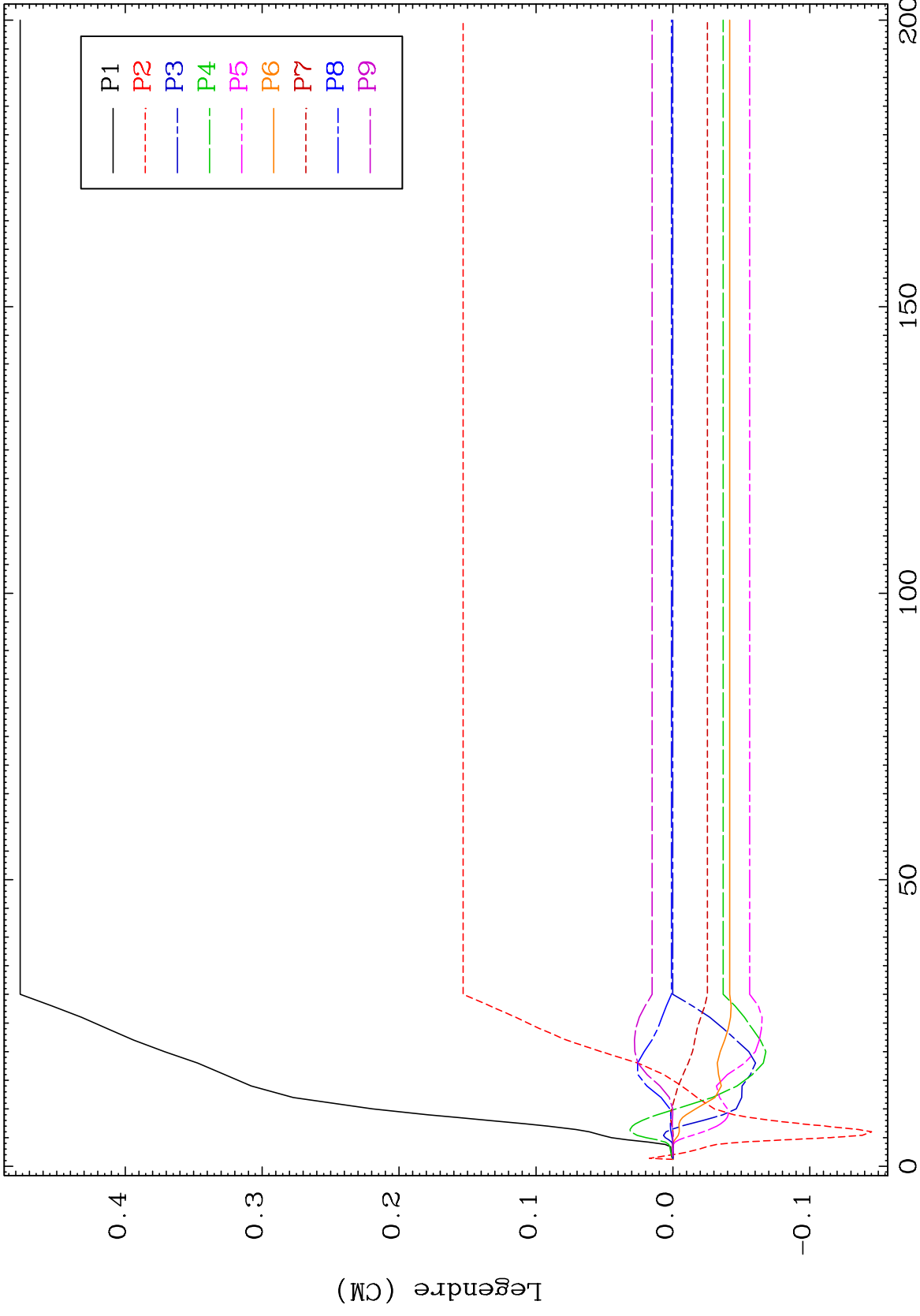
81

61-Pm-142

MAT 6134

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

61-Pm-142



82

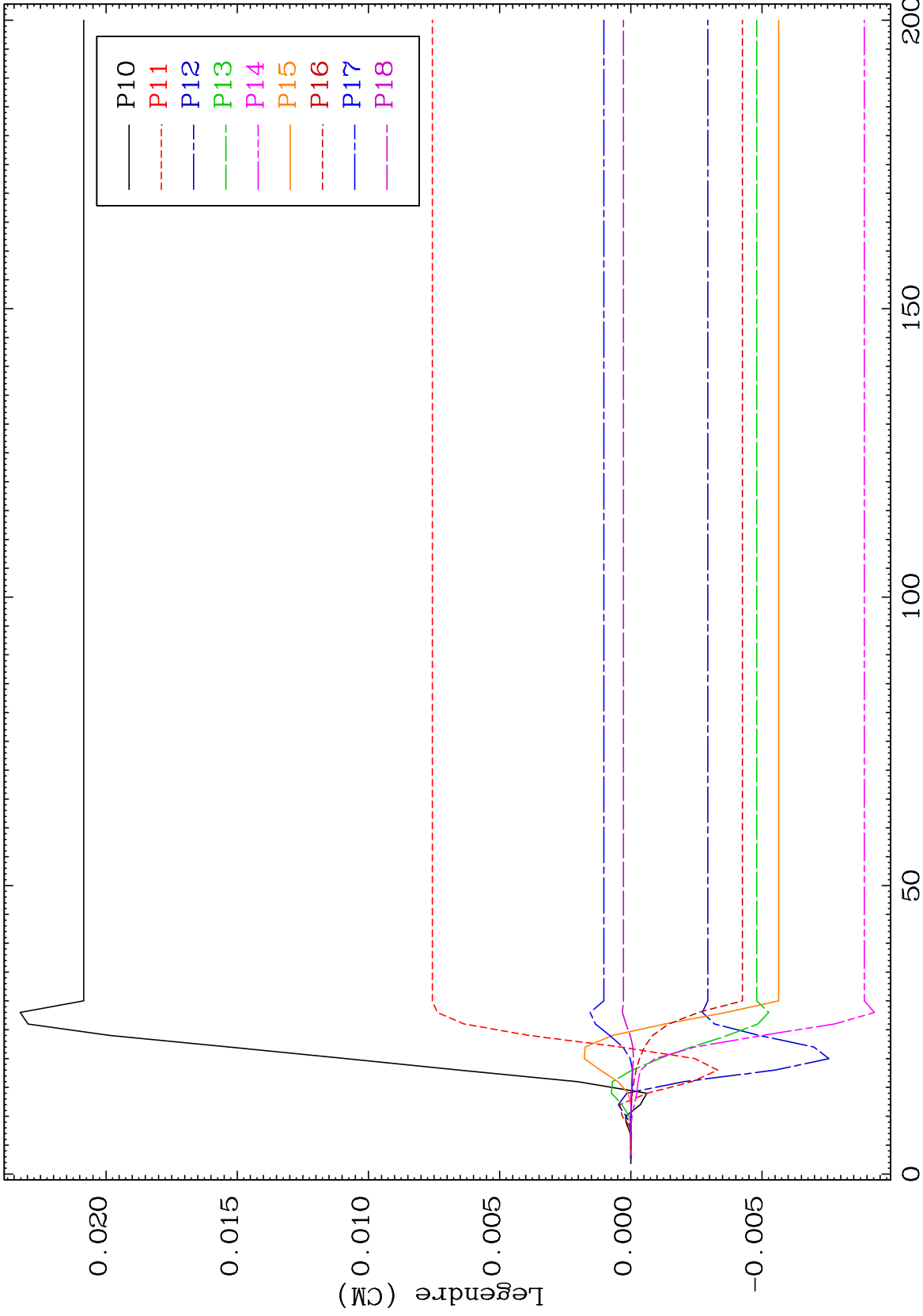
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



83

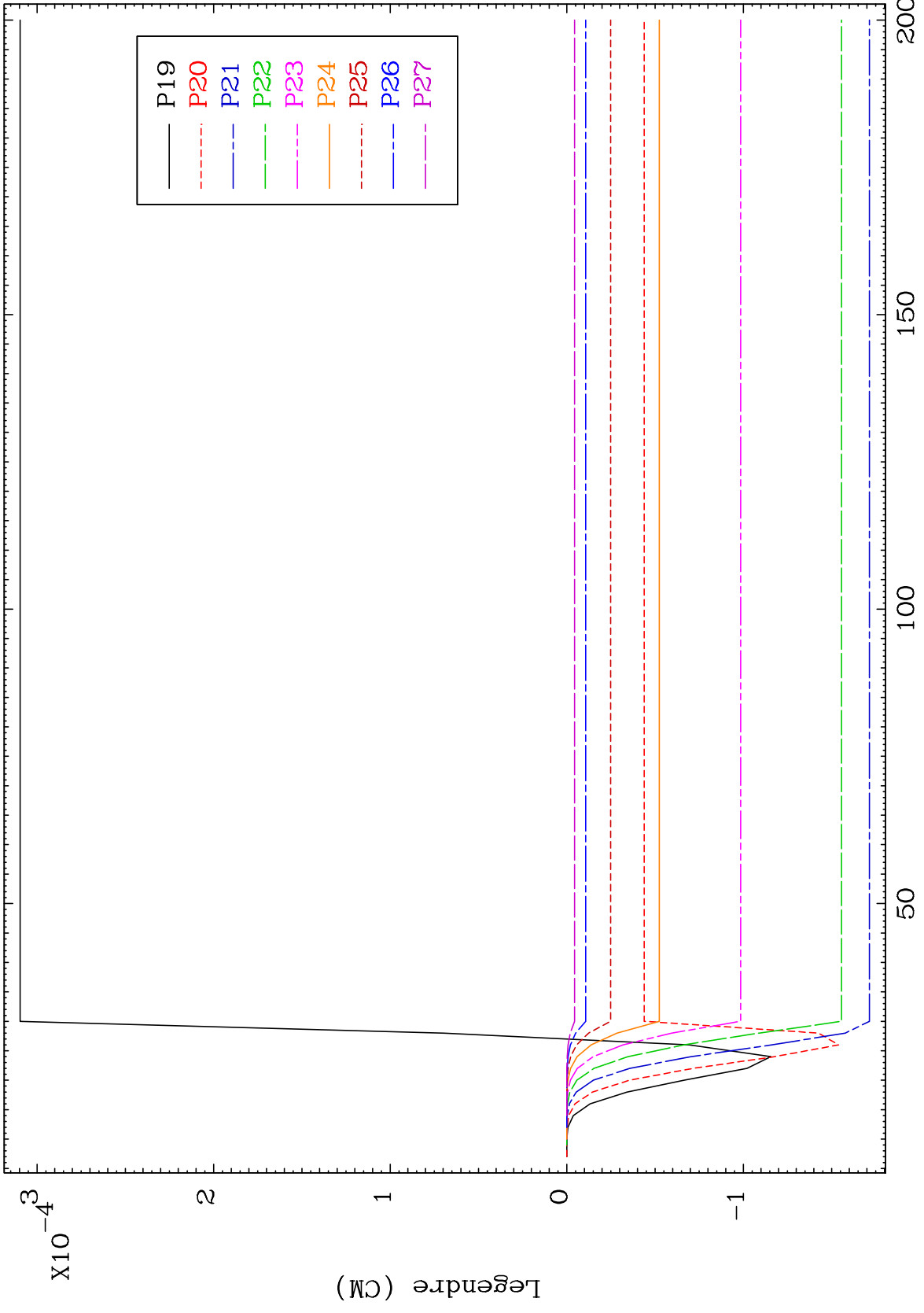
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

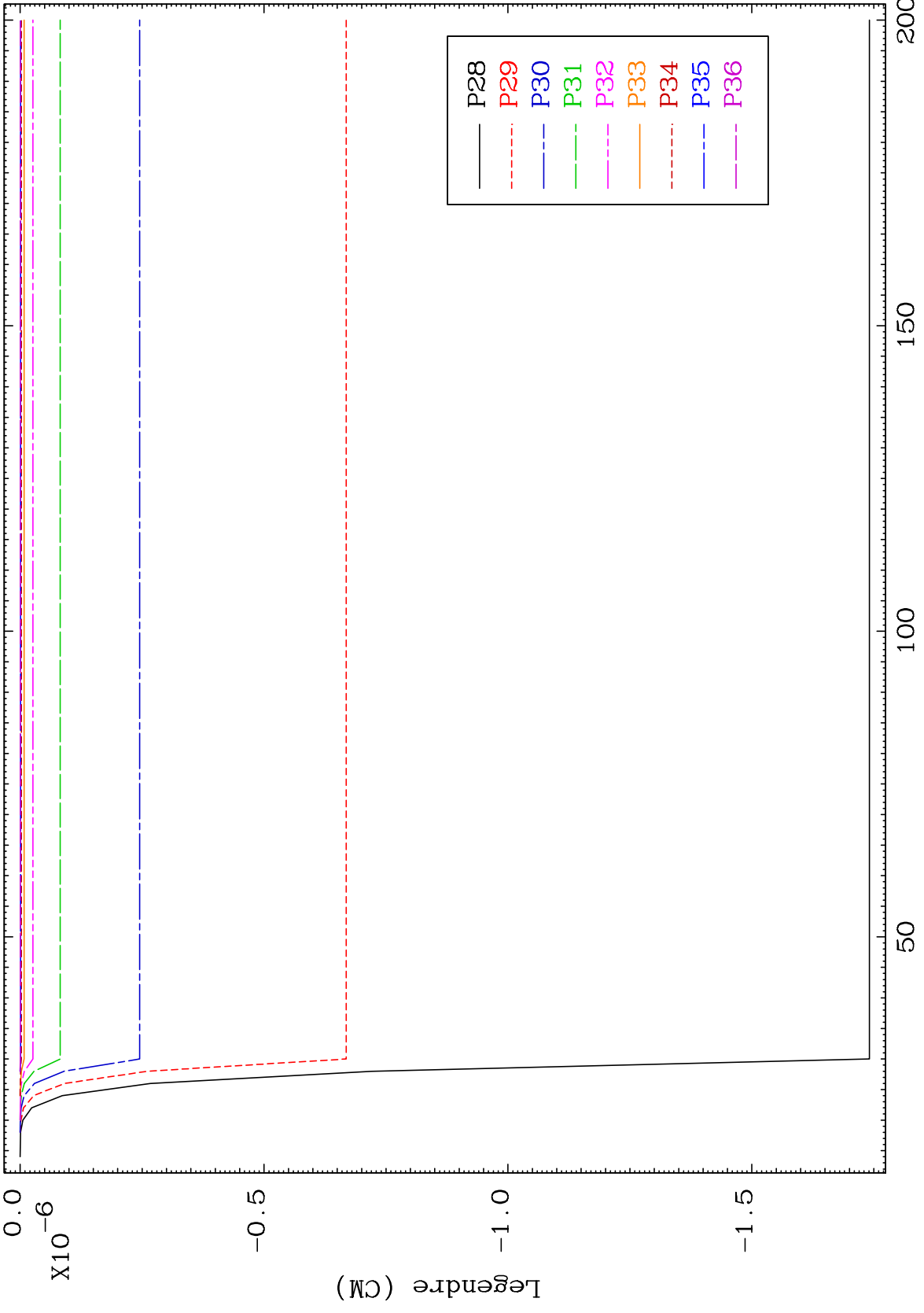
61-Pm-142



84

61-Pm-142

MAT 6134 MT= 69 (n,n') Level Legendre Coefficients 61-Pm-142

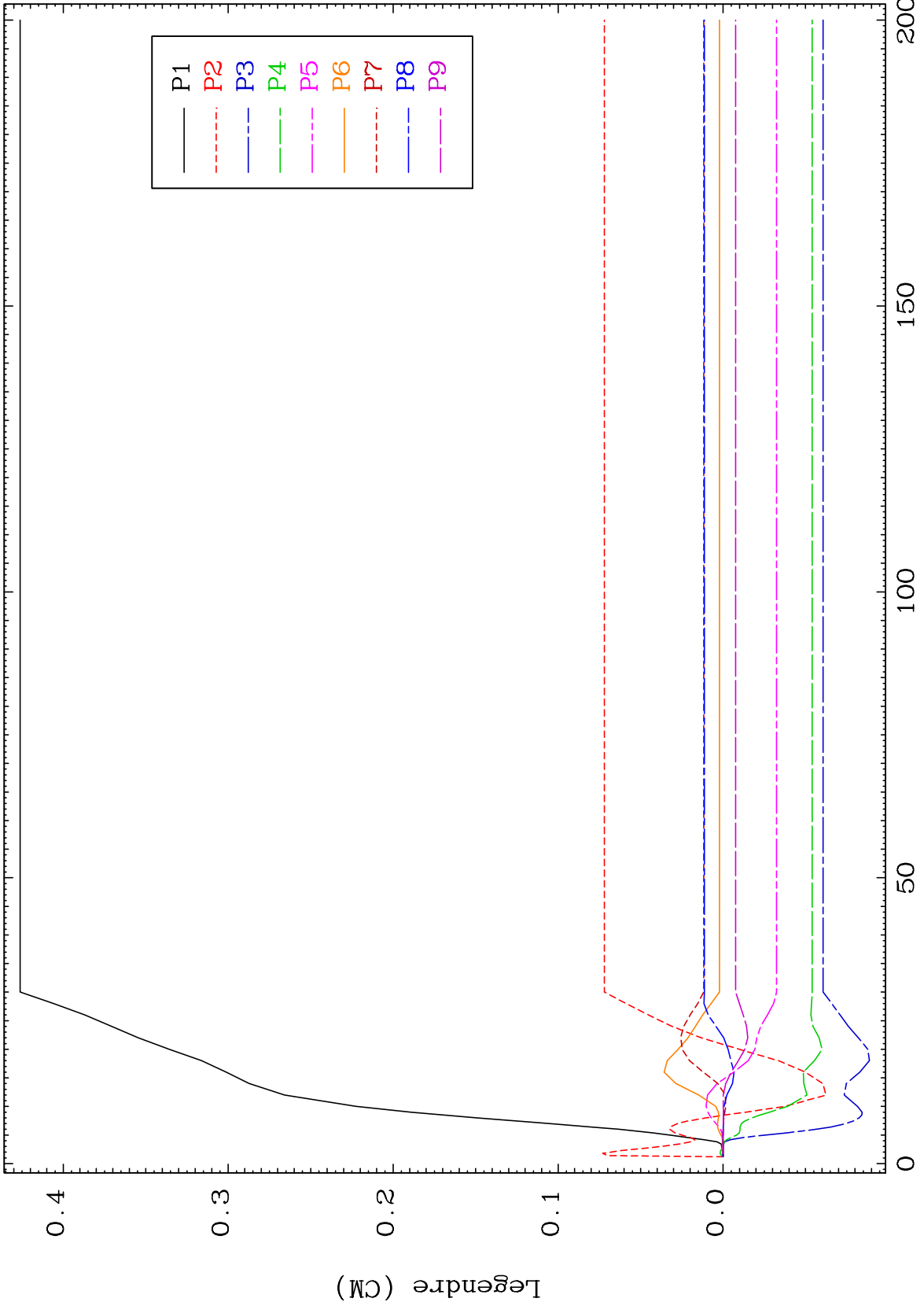


85 Incident Energy (MeV) 61-Pm-142

MAT 6134

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

61-Pm-142



86

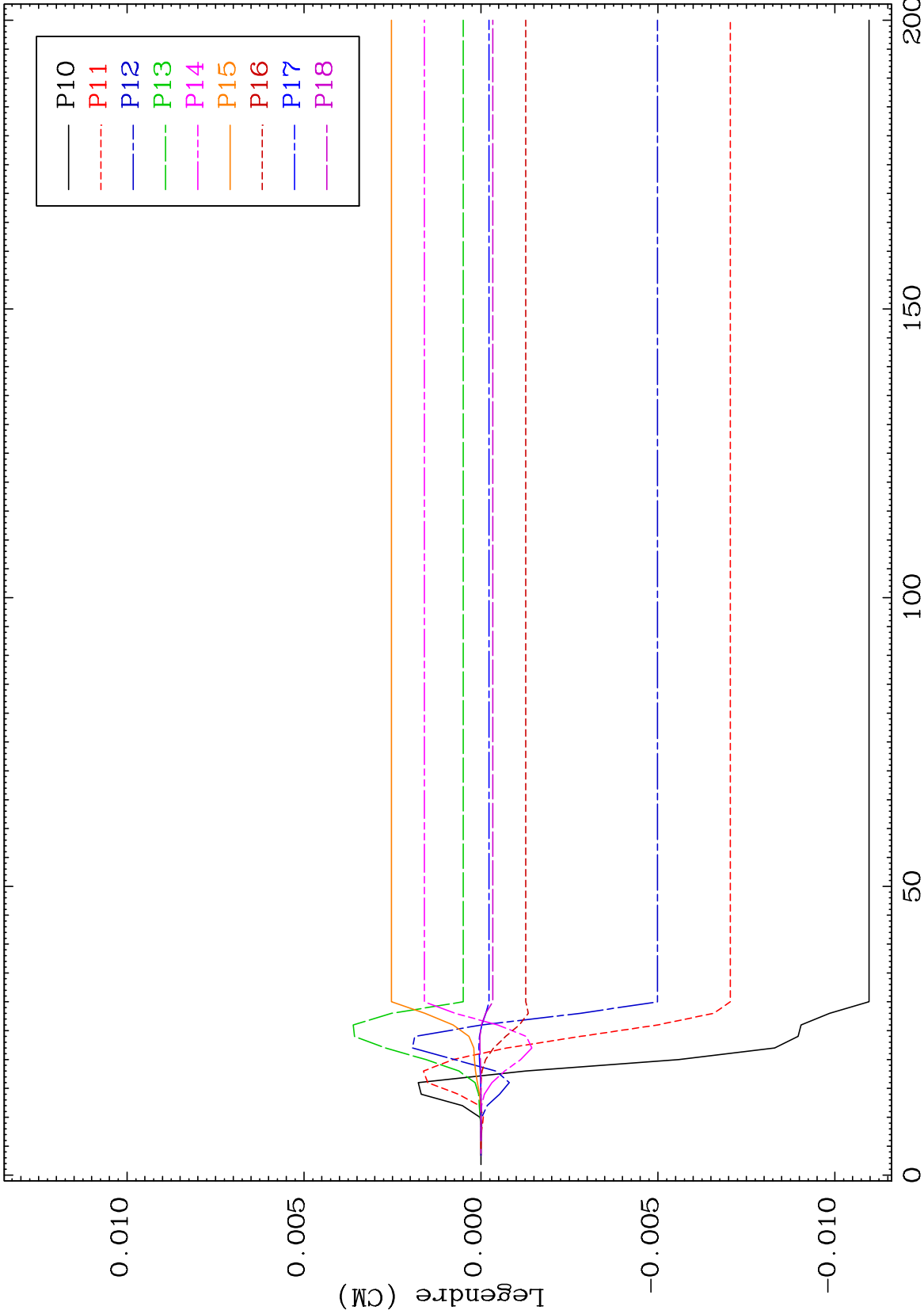
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



87

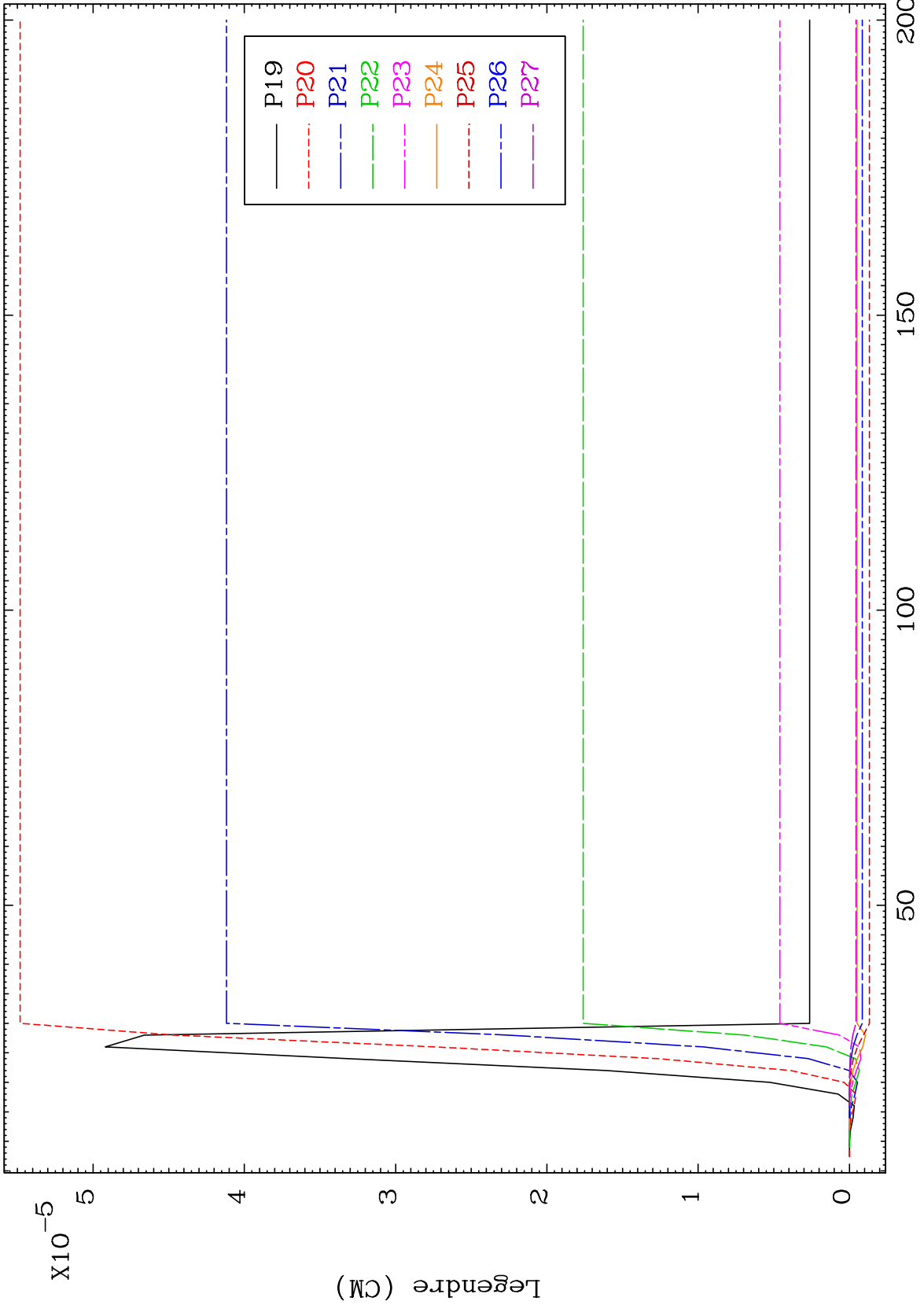
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



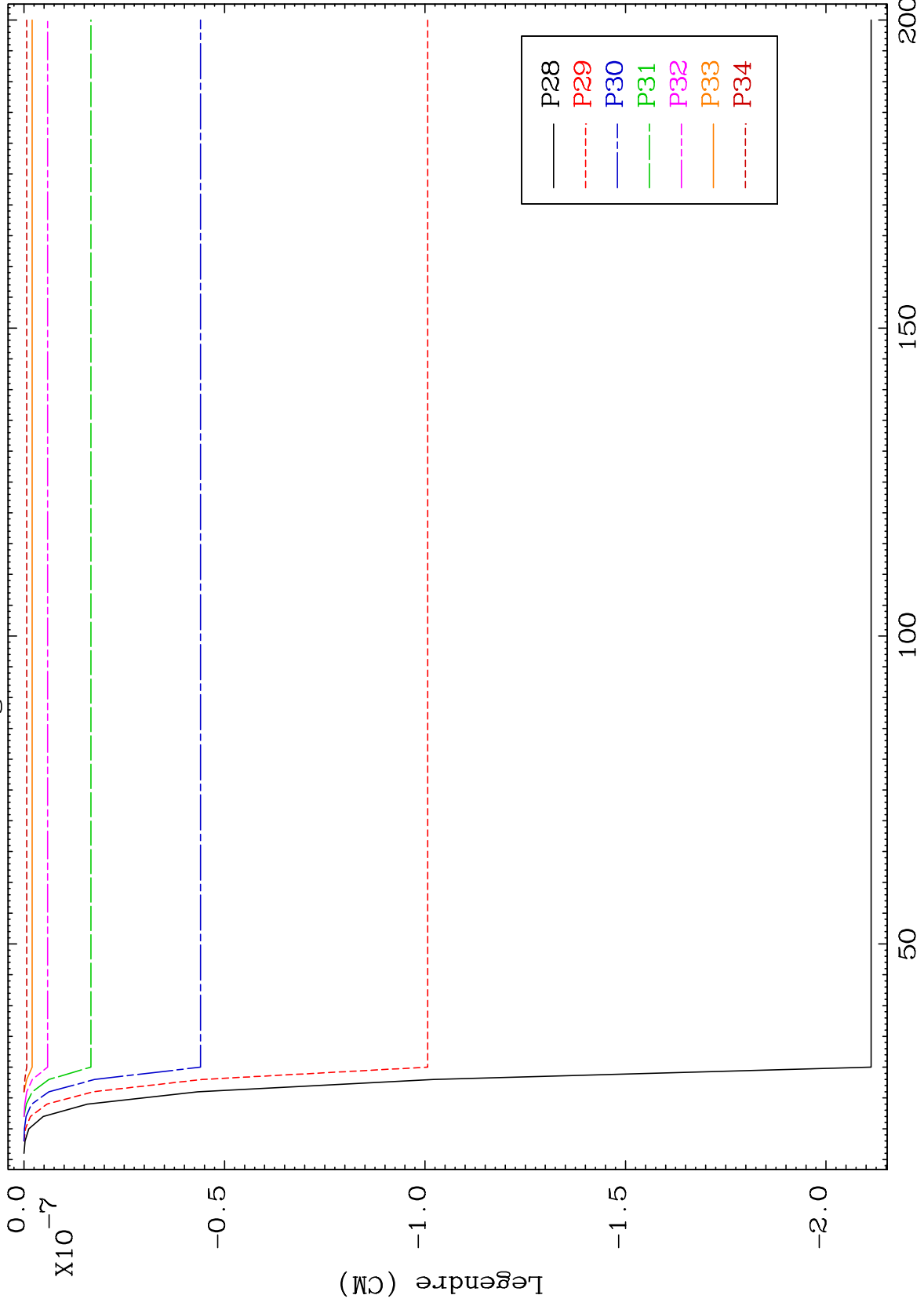
88

61-Pm-142

MAT 6134

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

61-Pm-142

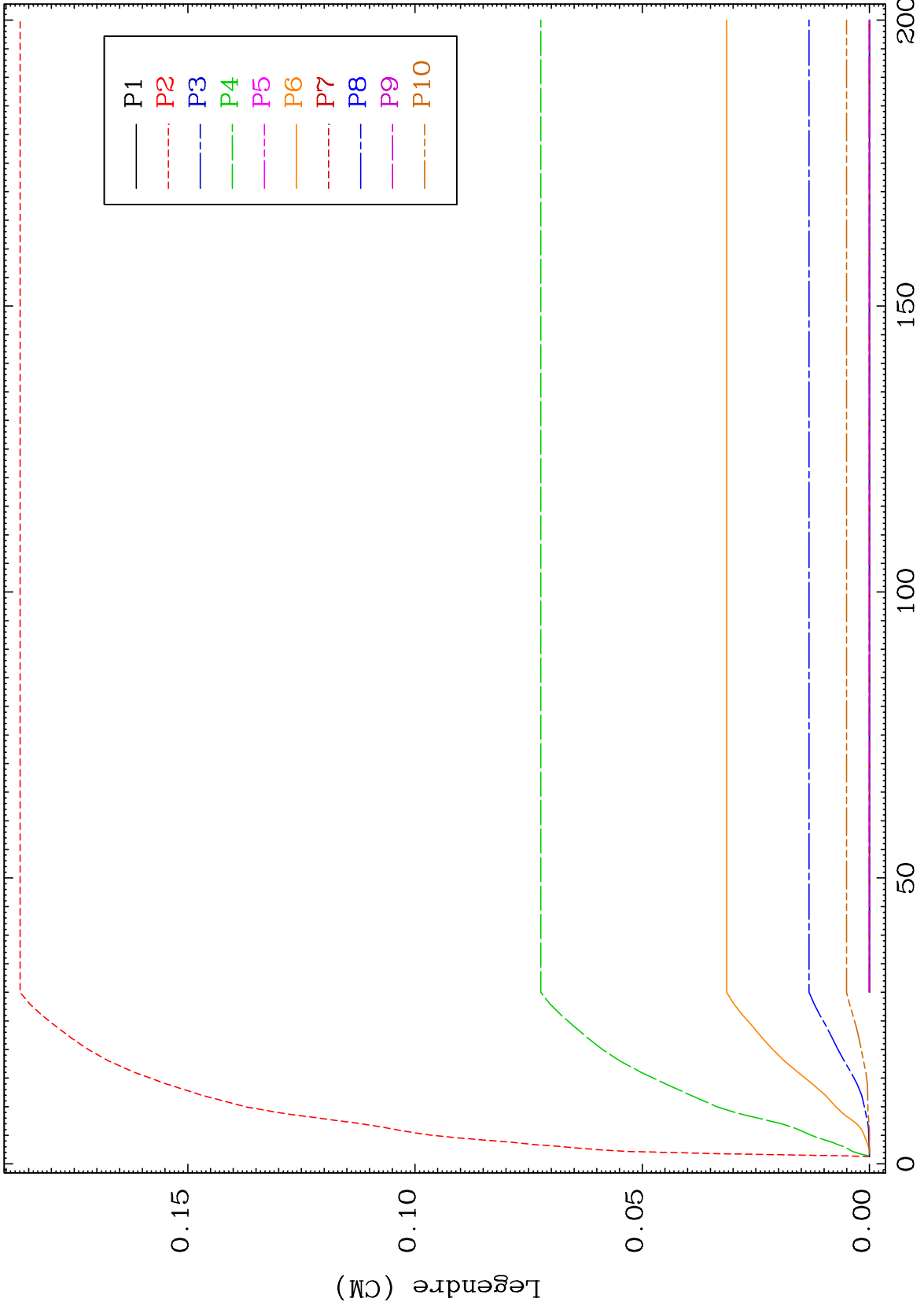


89

Incident Energy (MeV)

61-Pm-142

MAT 6134 MT= 71 (n,n') Level Legendre Coefficients 61-Pm-142

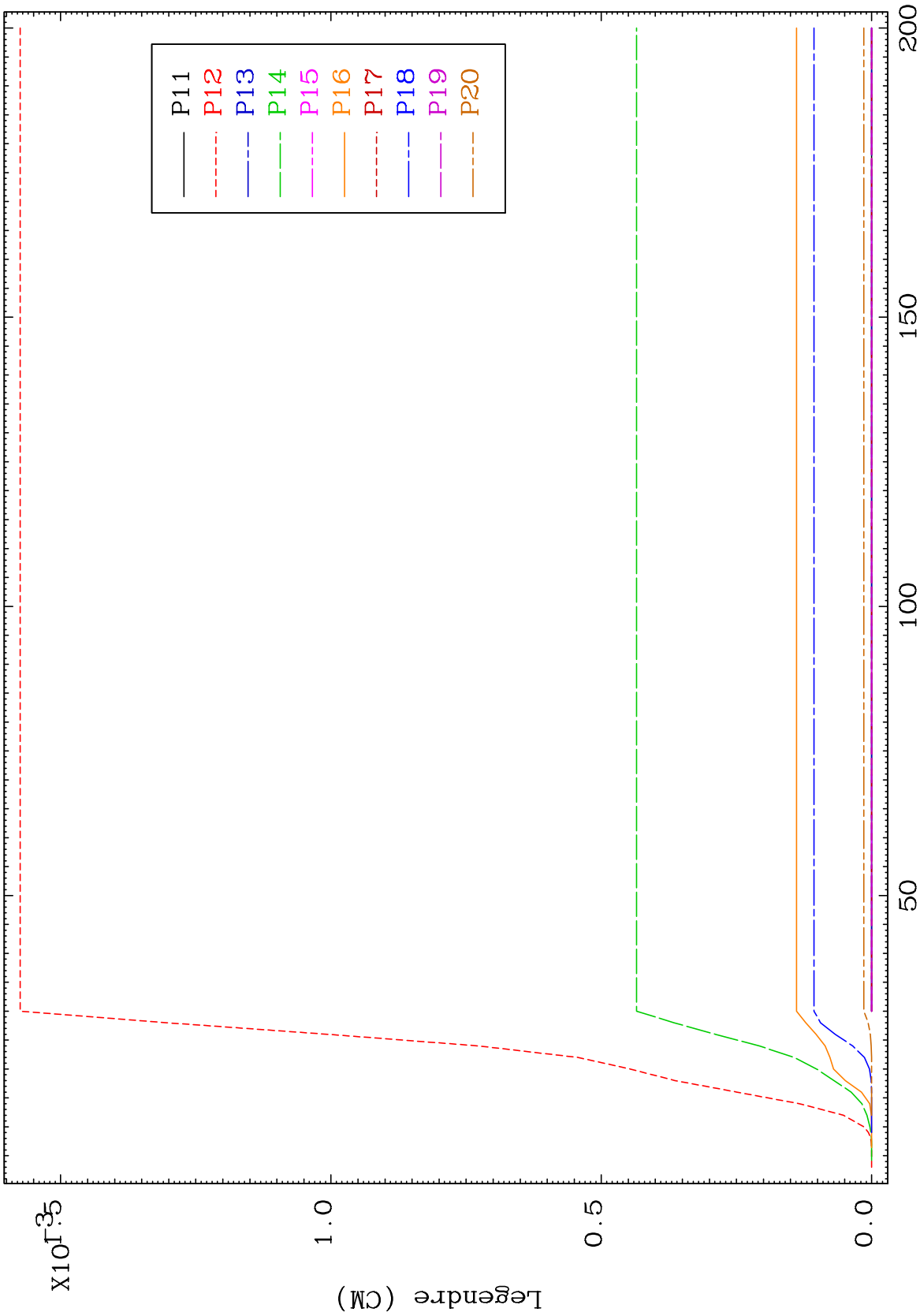


61-Pm-142

MAT 6134

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

61-Pm-142



91

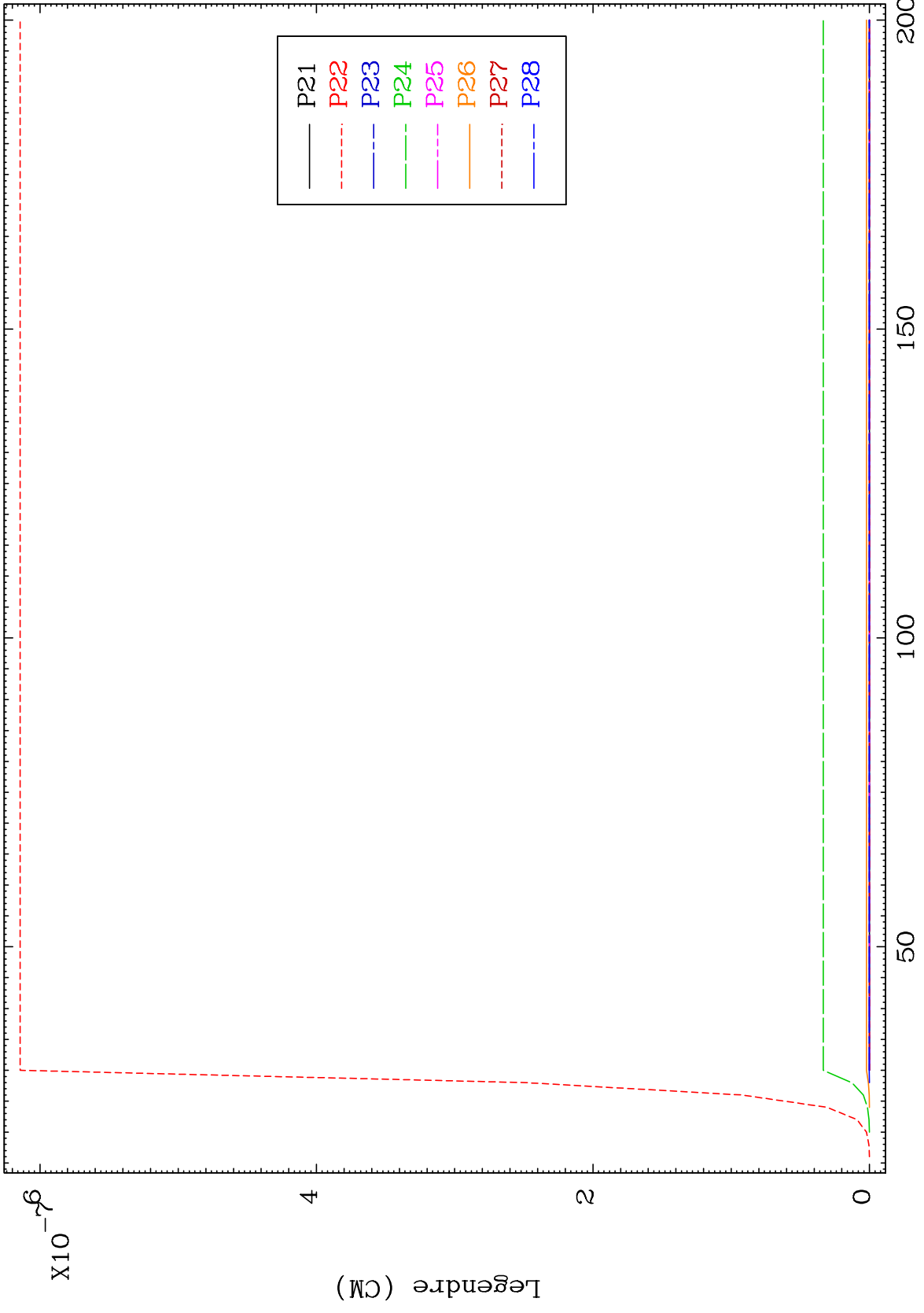
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



92

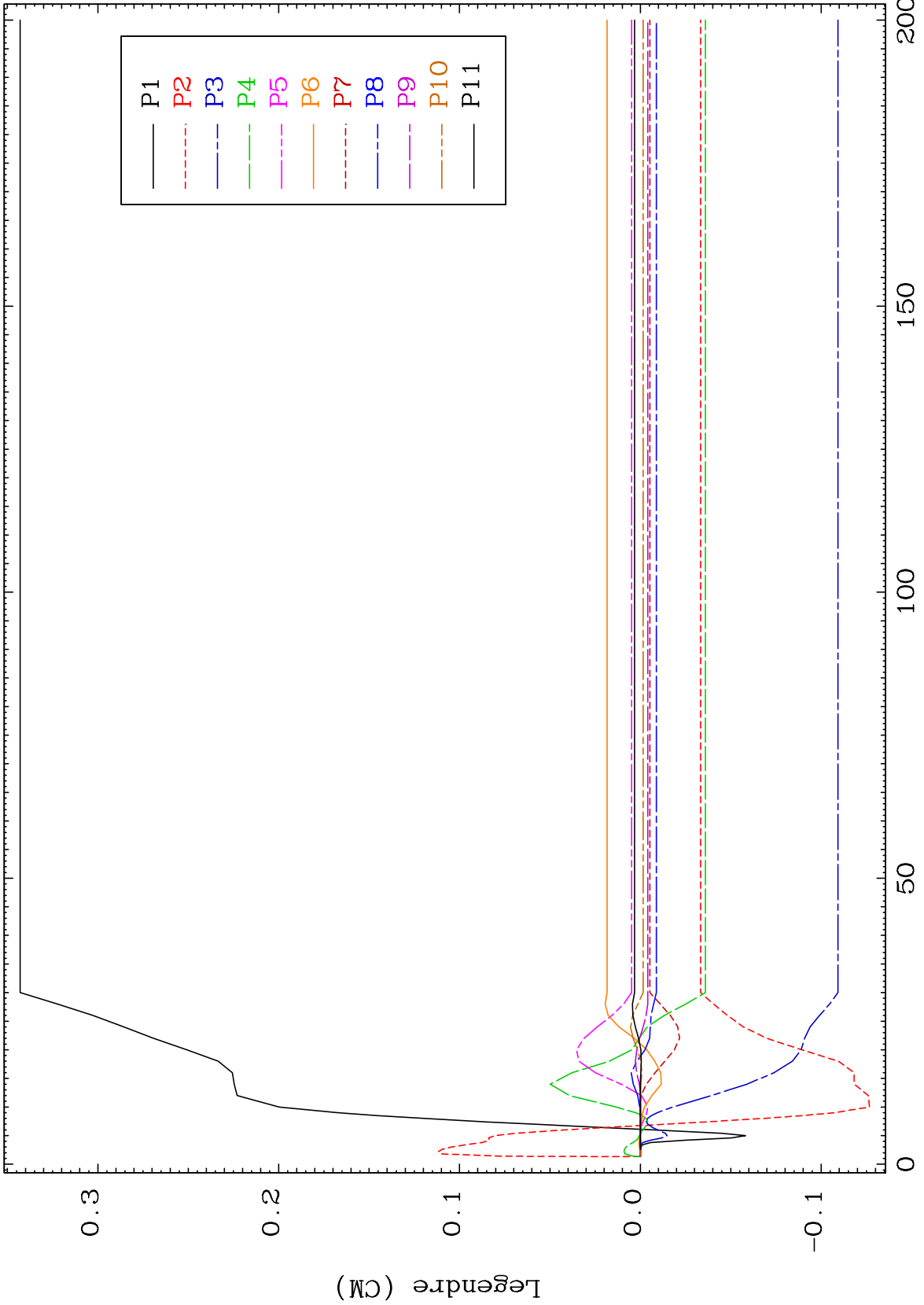
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



93

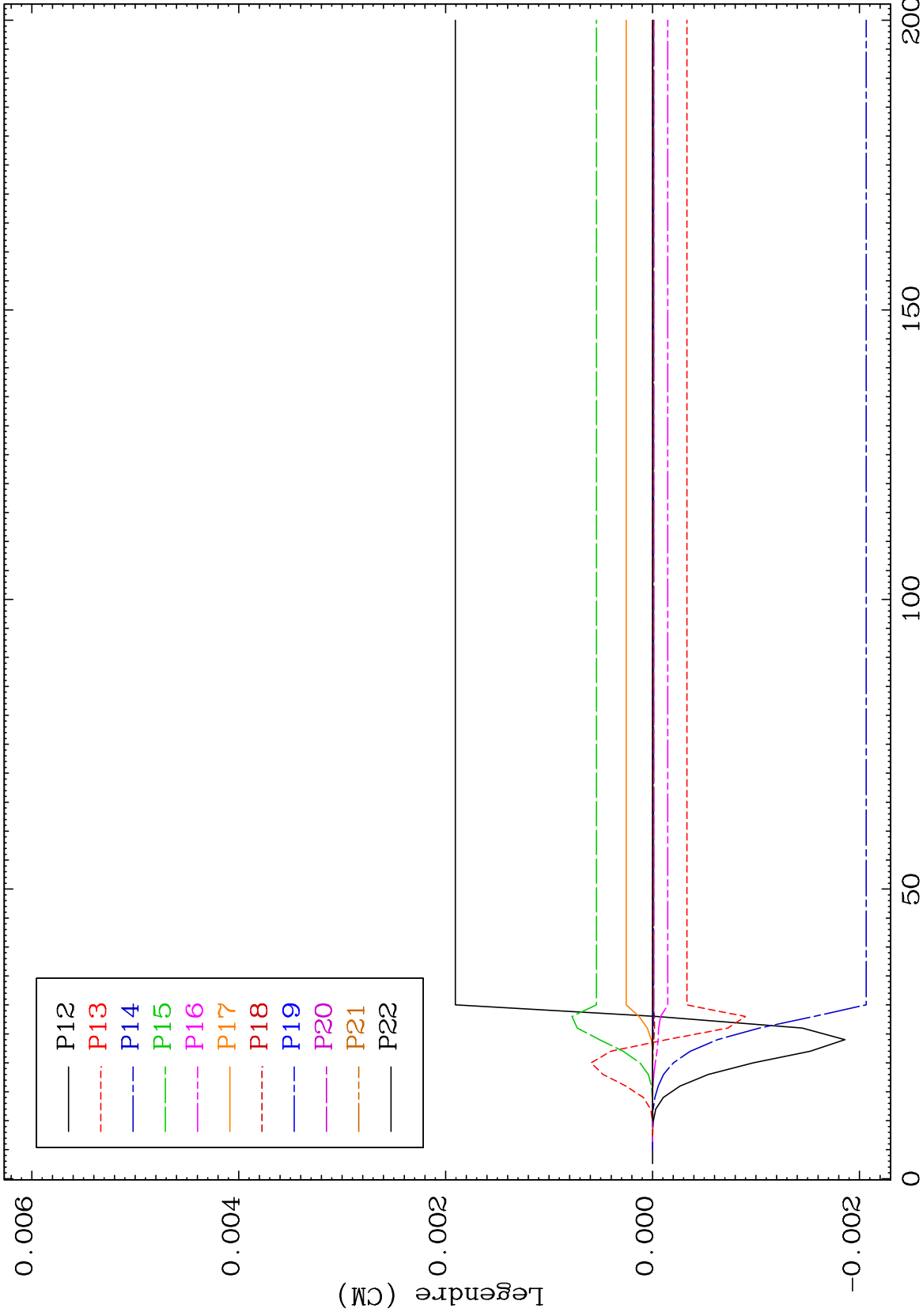
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



94

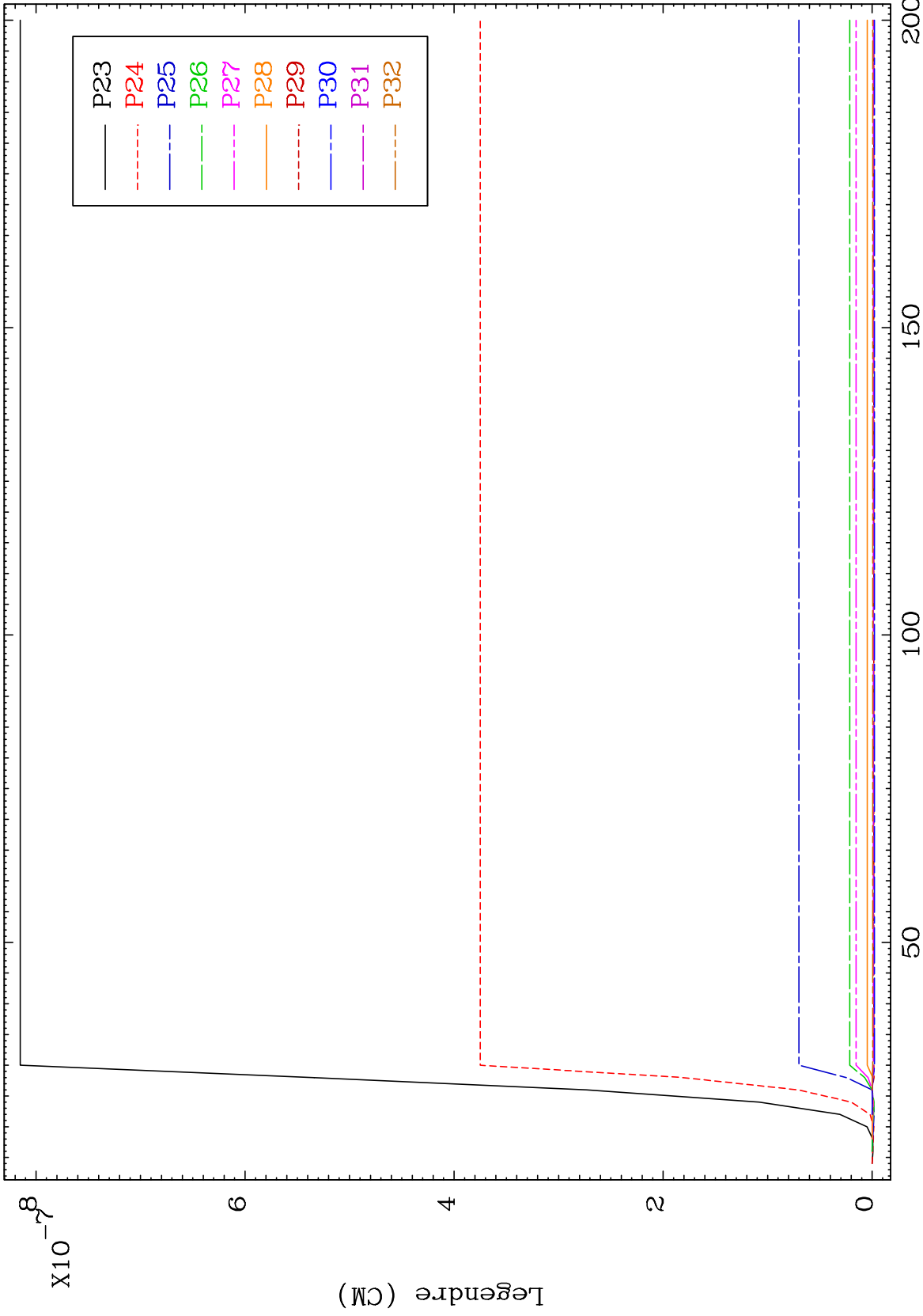
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142

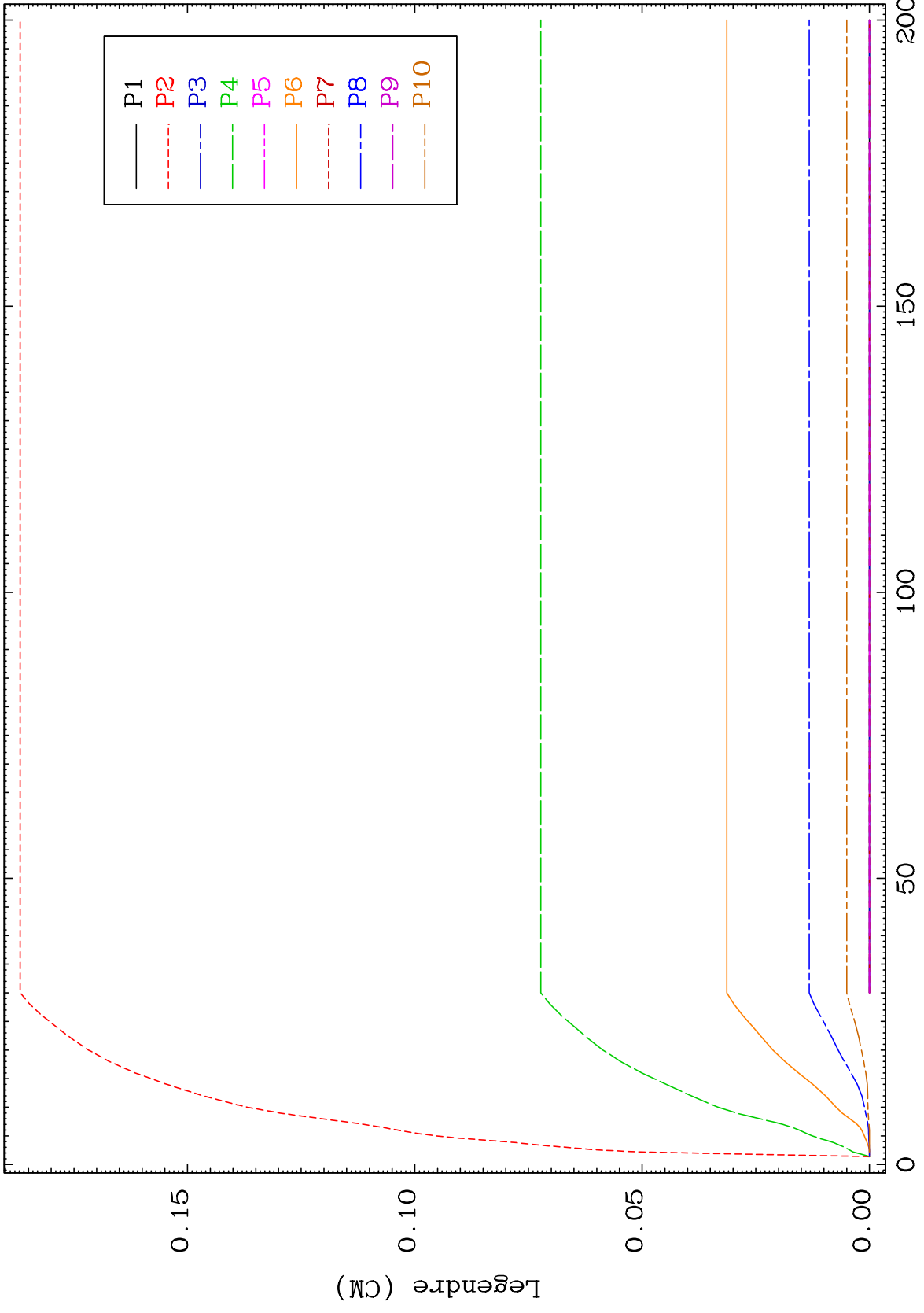


95

Incident Energy (MeV)

61-Pm-142

MAT 6134 MT= 73 (n,n') Level Legendre Coefficients 61-Pm-142

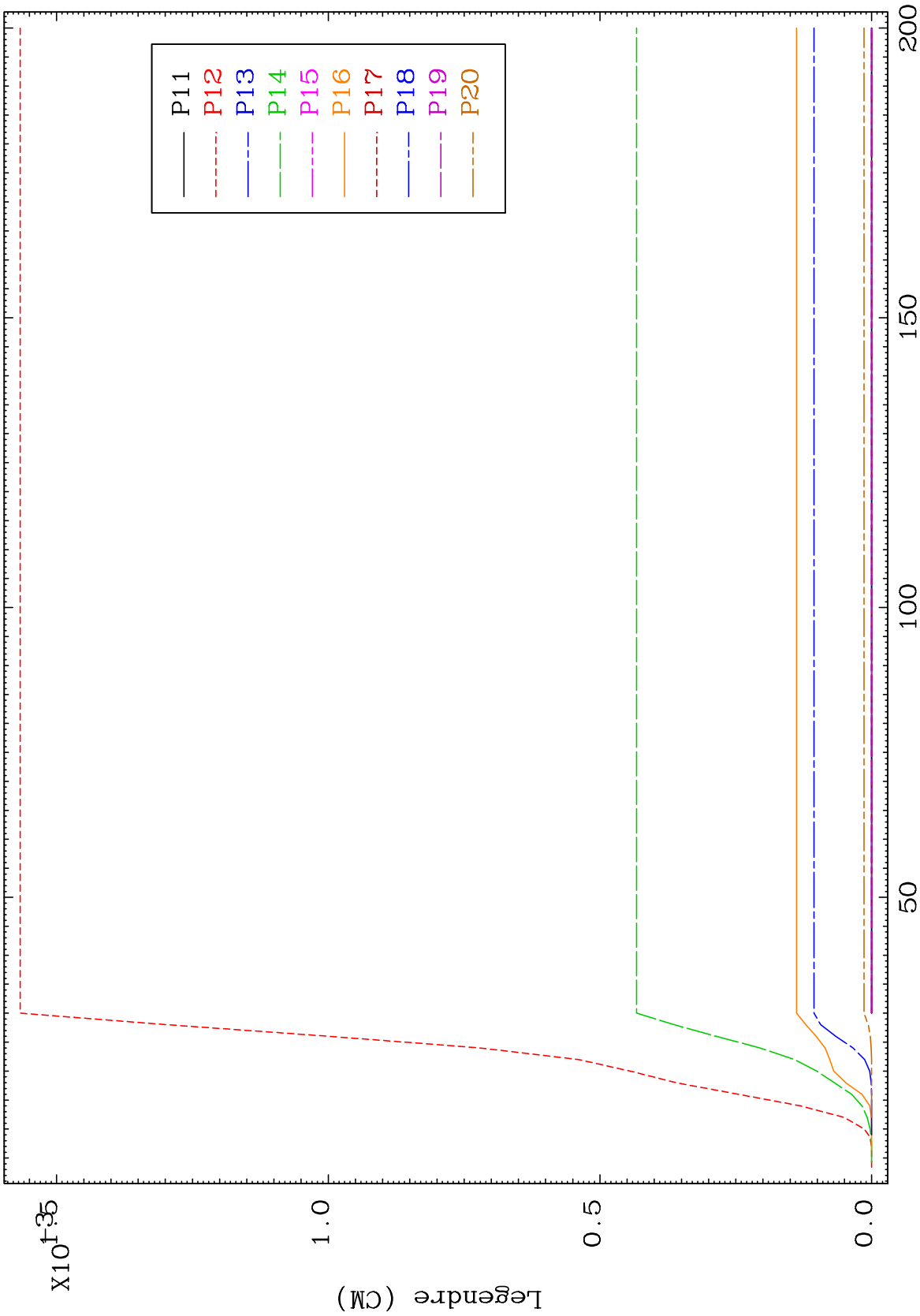


96 61-Pm-142

MAT 6134

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

61-Pm-142



97

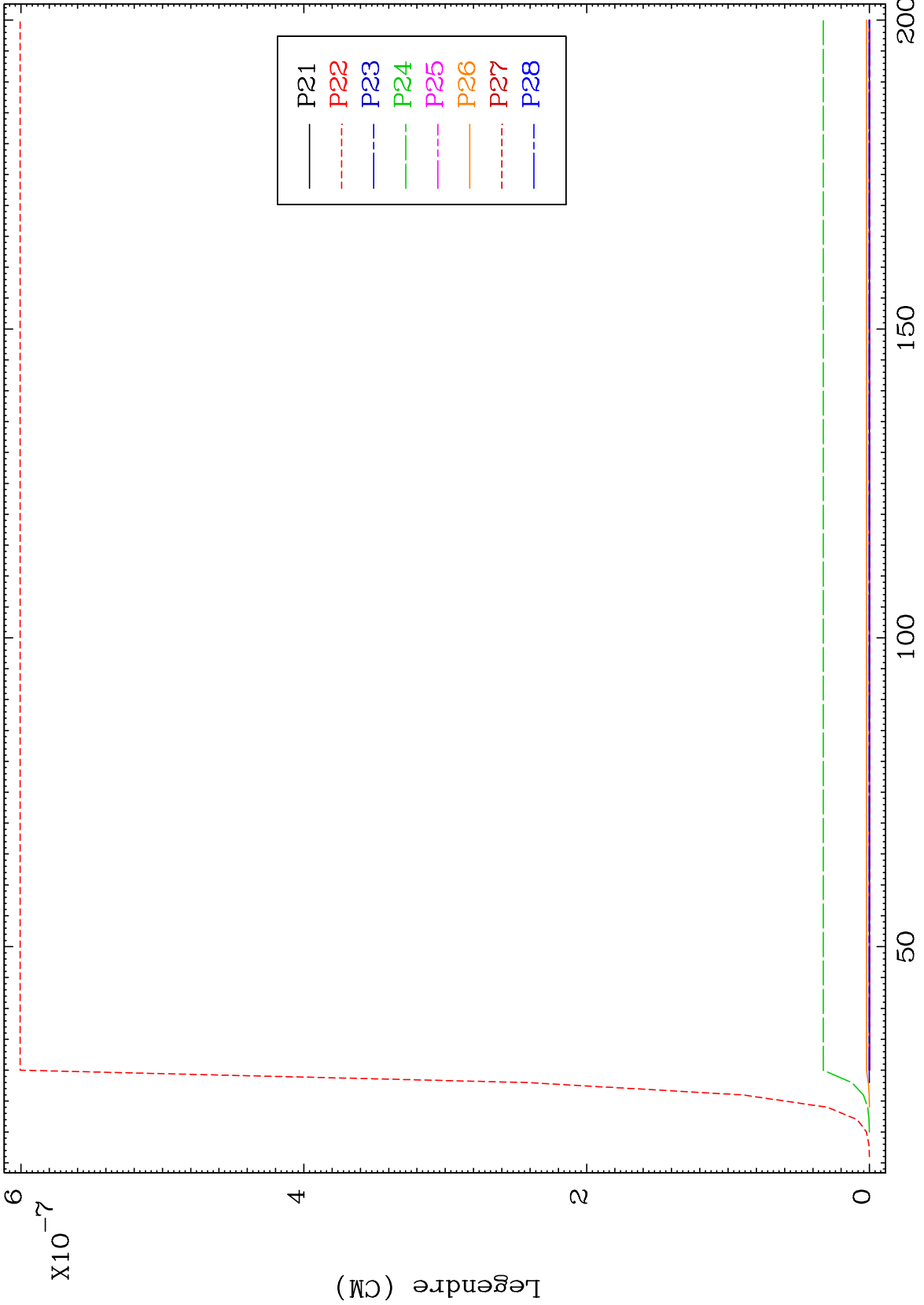
Incident Energy (MeV)

61-Pm-142

MAT 6134

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

61-Pm-142



98

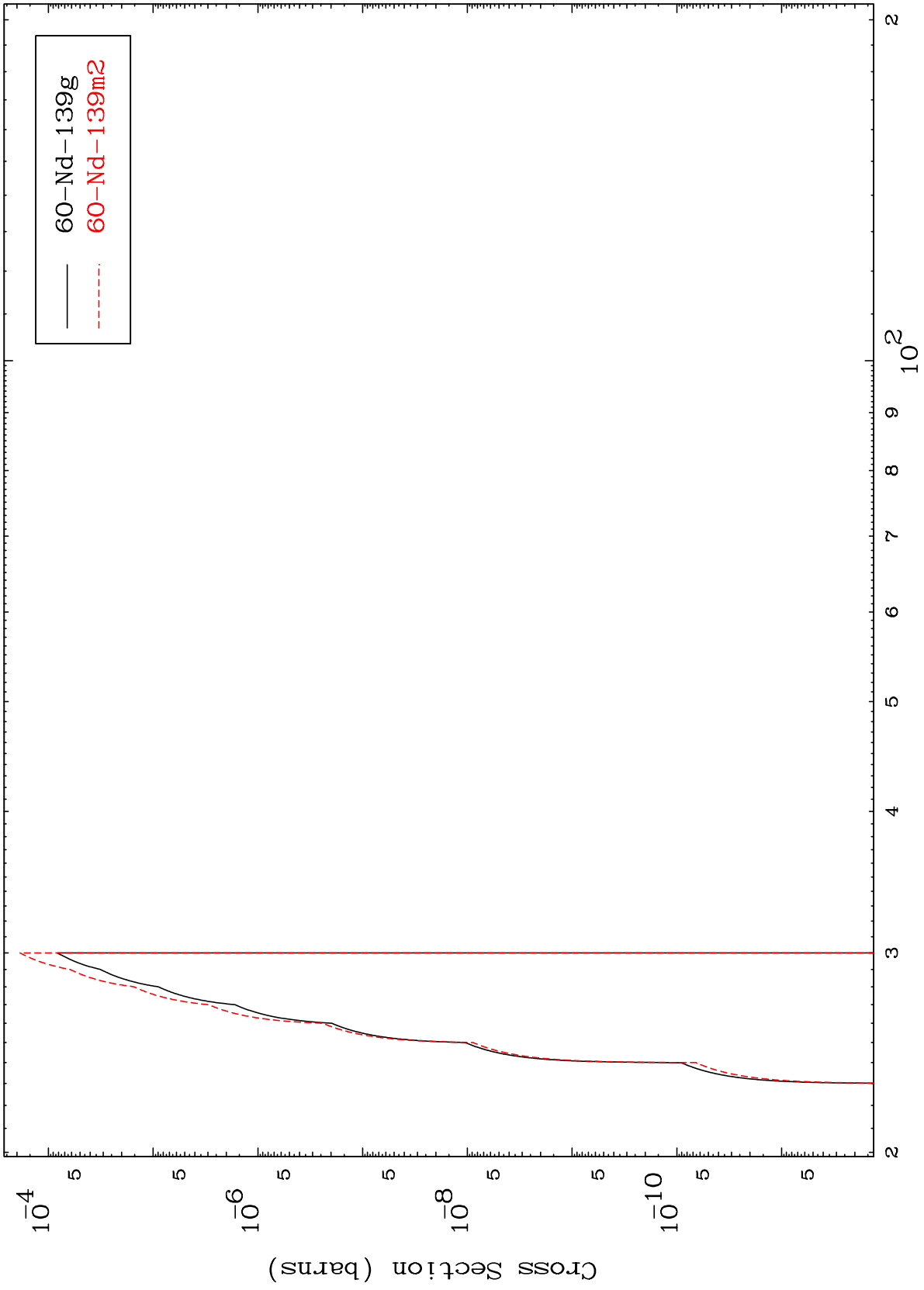
61-Pm-142

MAT 6134

(n,2n) d

61-Pm-142

Radionuclide Production Cross Section



99

Incident Energy (MeV)

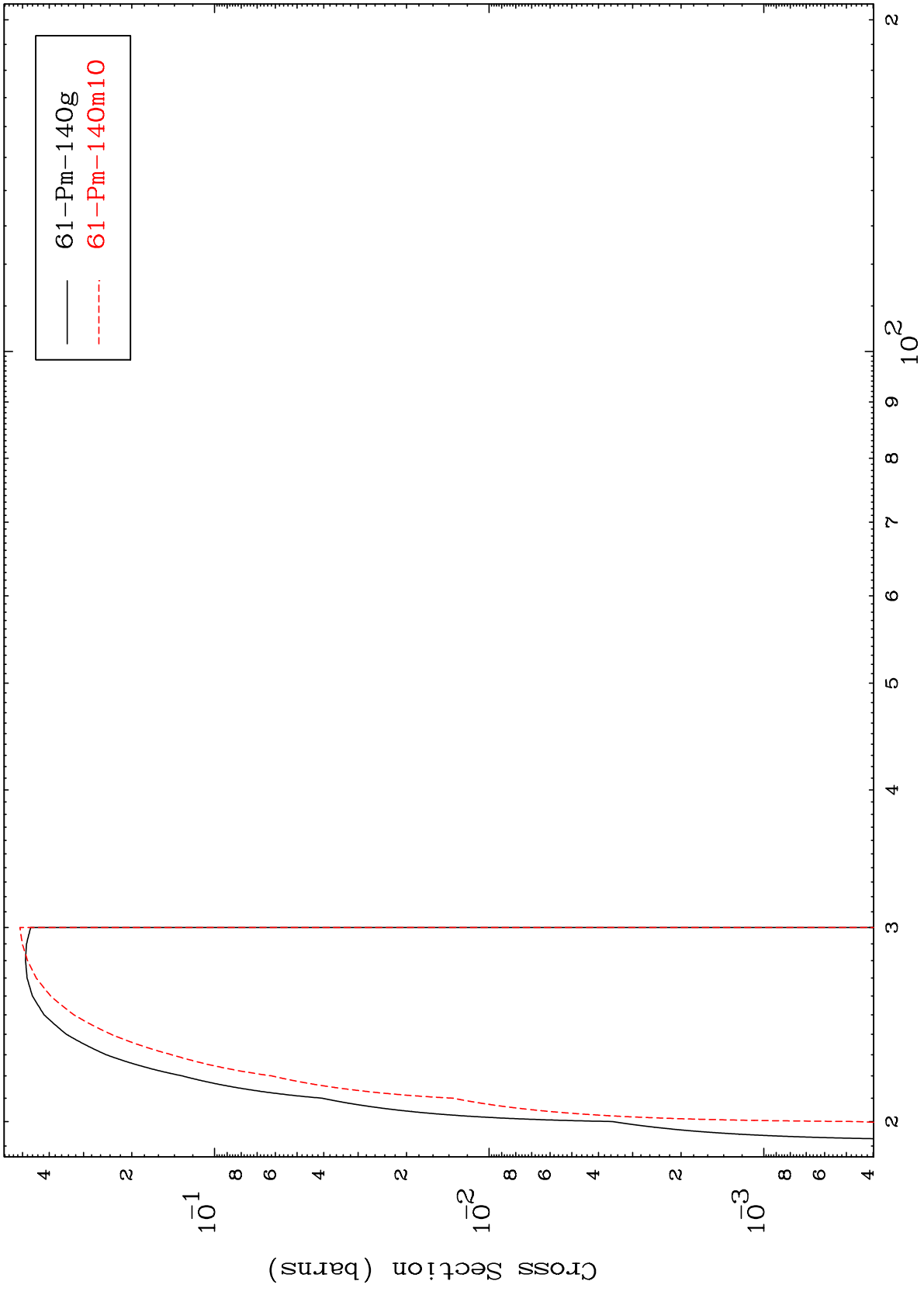
61-Pm-142

MAT 6134

(n,3n)

61-Pm-142

Radionuclide Production Cross Section



61-Pm-140g
61-Pm-140m10

100

Incident Energy (MeV)

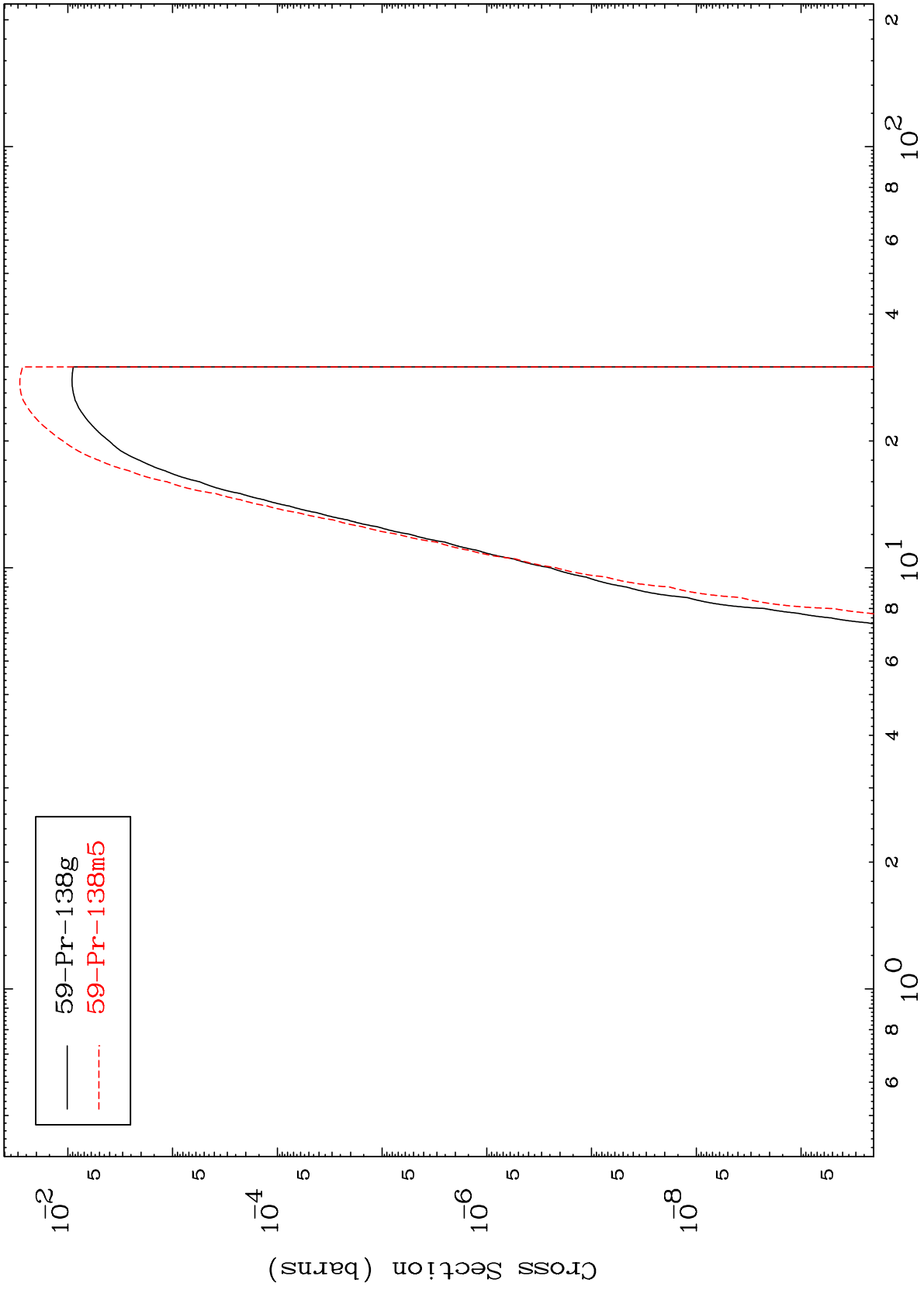
61-Pm-142

MAT 6134

(n,n') α

61-Pm-142

Radionuclide Production Cross Section



101

Incident Energy (MeV)

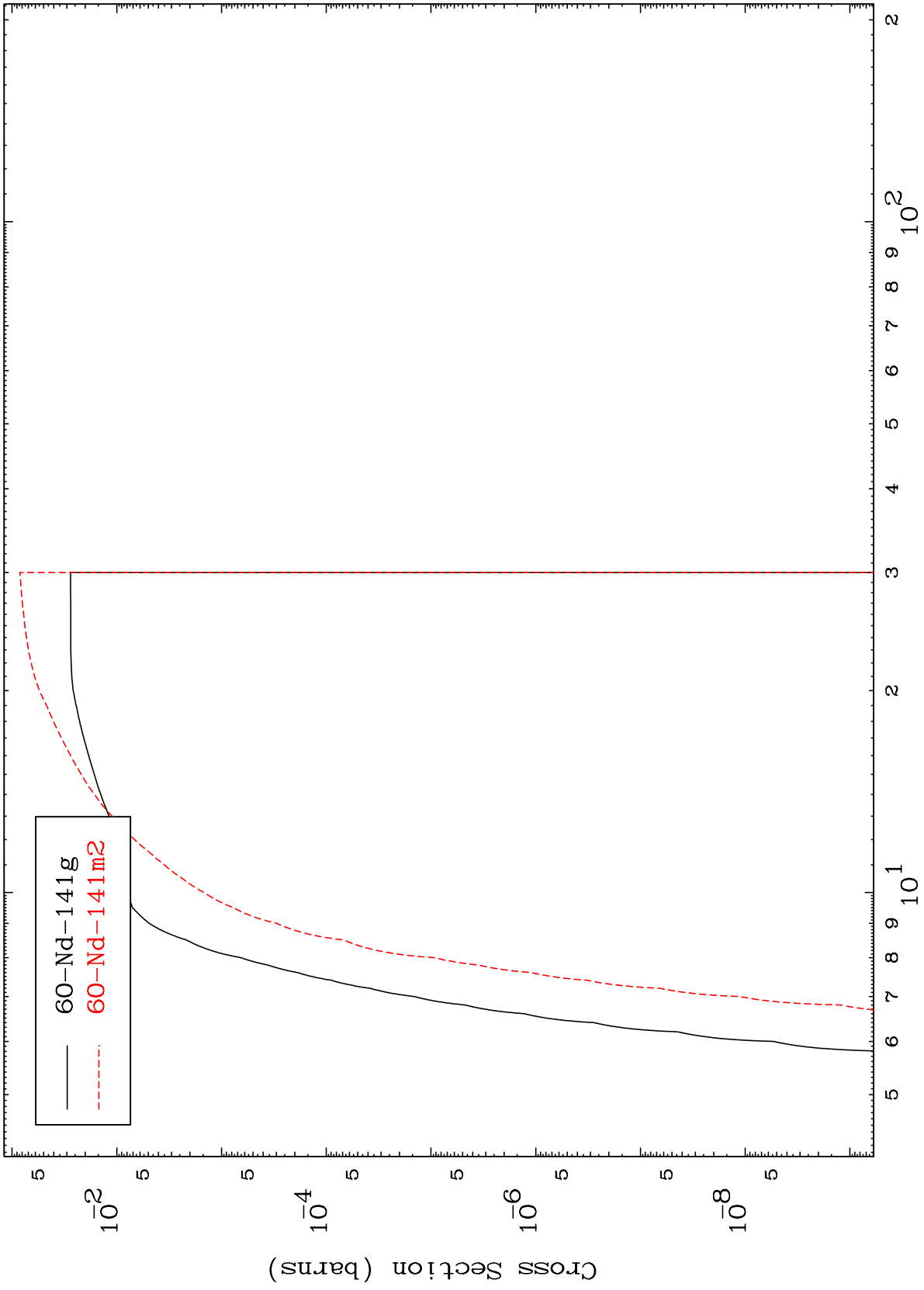
61-Pm-142

MAT 6134

(n,n') p

61-Pm-142

Radionuclide Production Cross Section



102

Incident Energy (MeV)

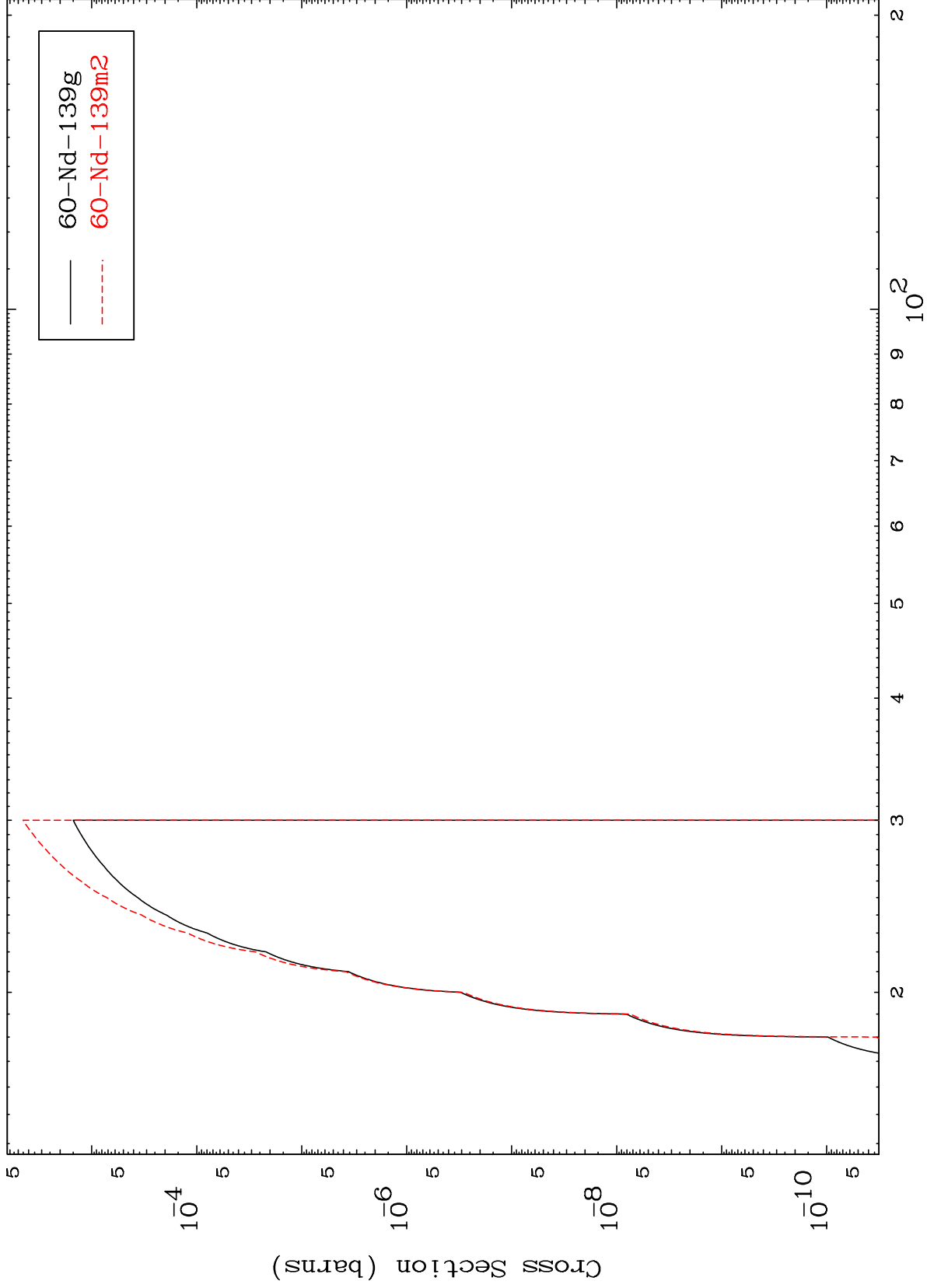
61-Pm-142

MAT 6134

(n,n') t

61-Pm-142

Radionuclide Production Cross Section



103

Incident Energy (MeV)

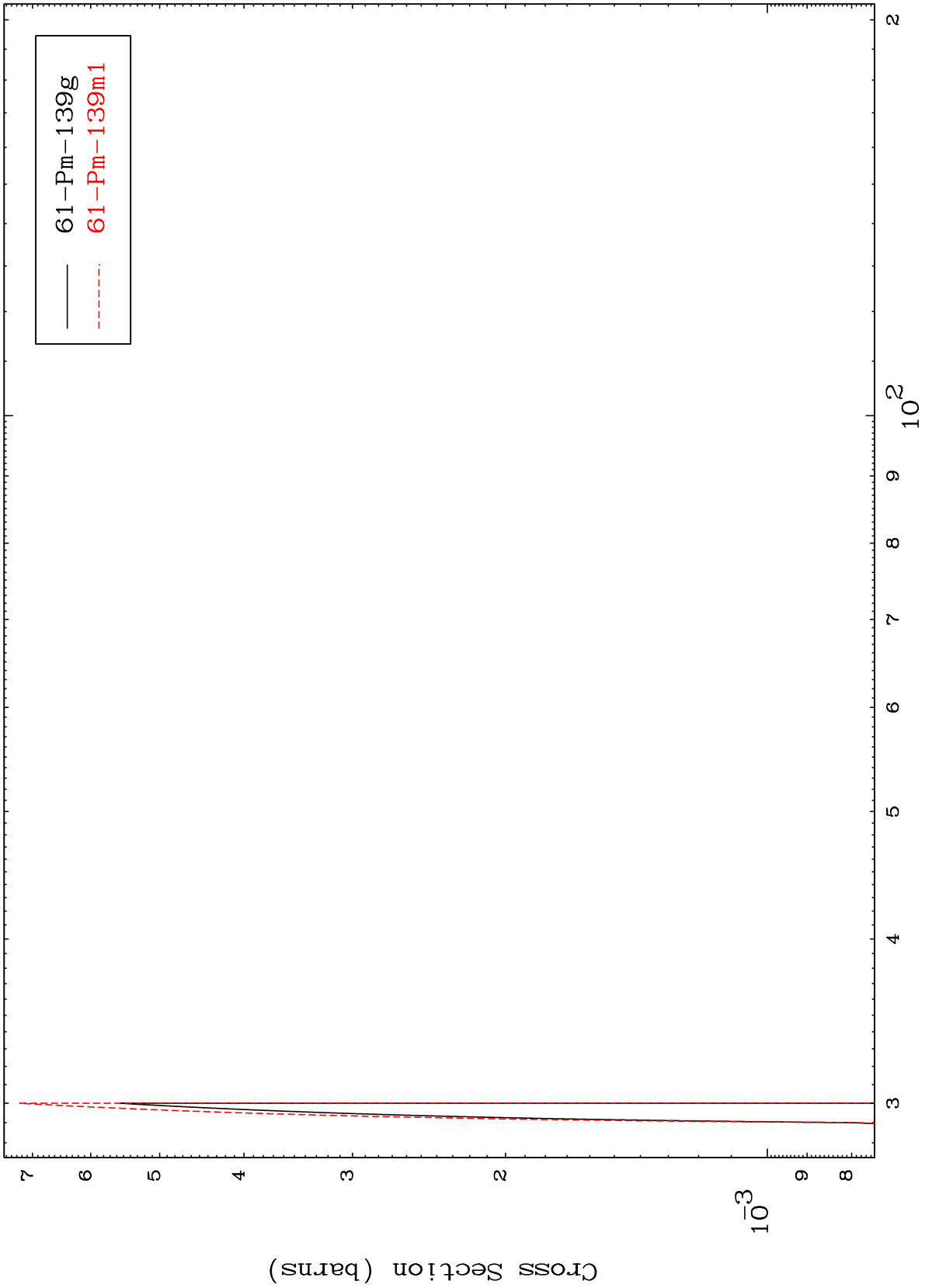
61-Pm-142

MAT 6134

(n,4n)

61-Pm-142

Radionuclide Production Cross Section



104

Incident Energy (MeV)

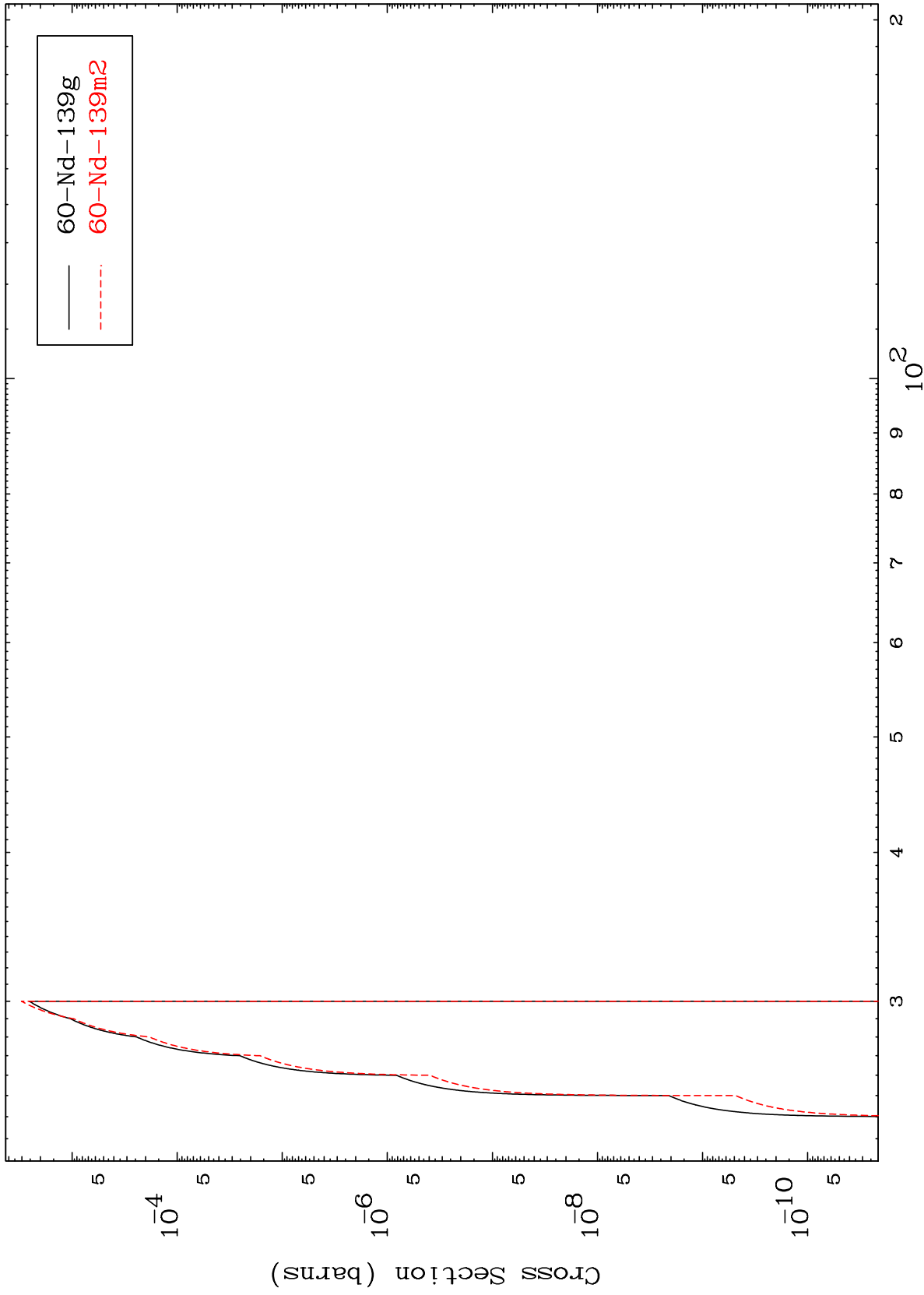
61-Pm-142

MAT 6134

(n,3n) p

61-Pm-142

Radionuclide Production Cross Section



105

Incident Energy (MeV)

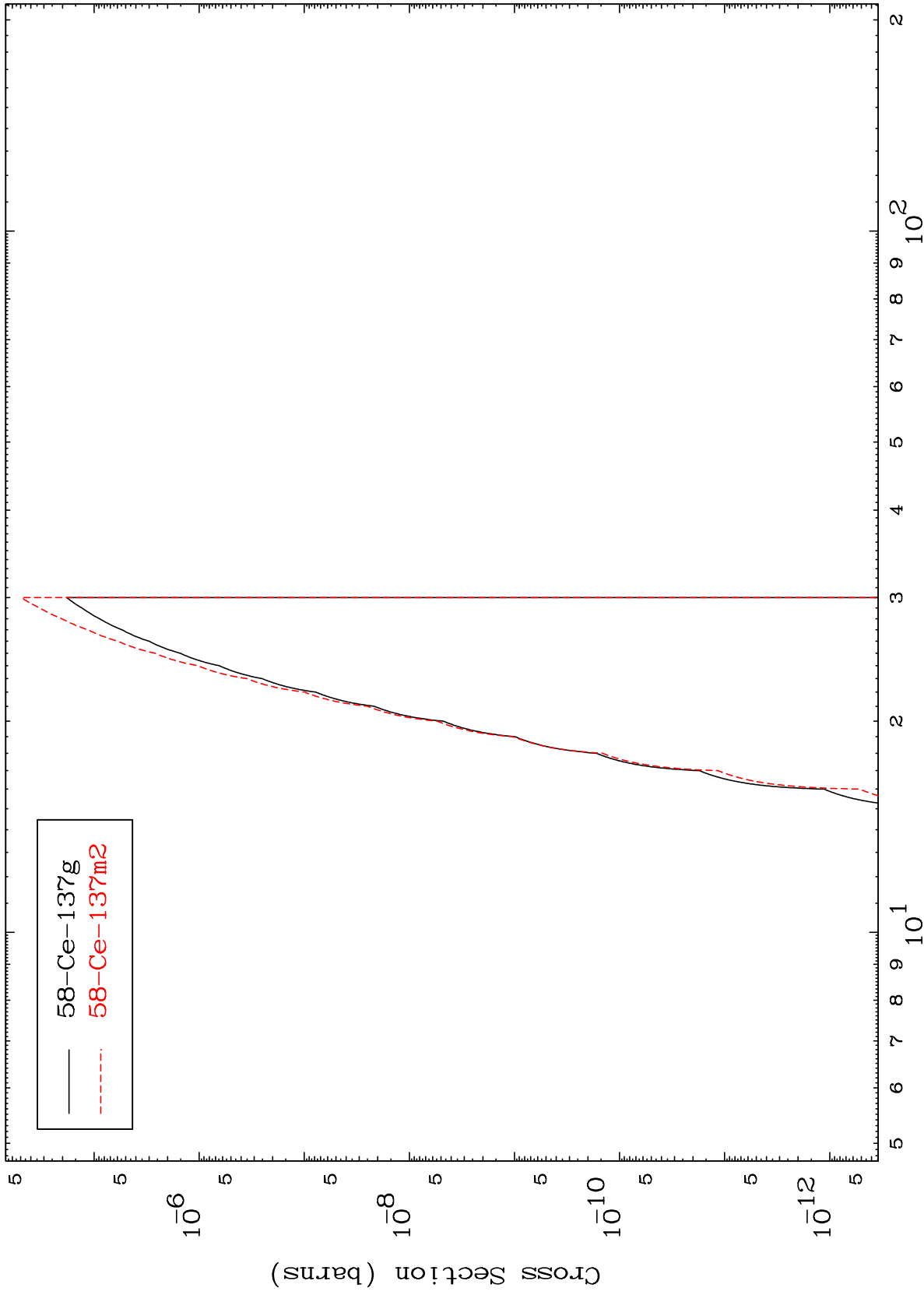
61-Pm-142

MAT 6134

(n,n') p α

61-Pm-142

Radionuclide Production Cross Section



106

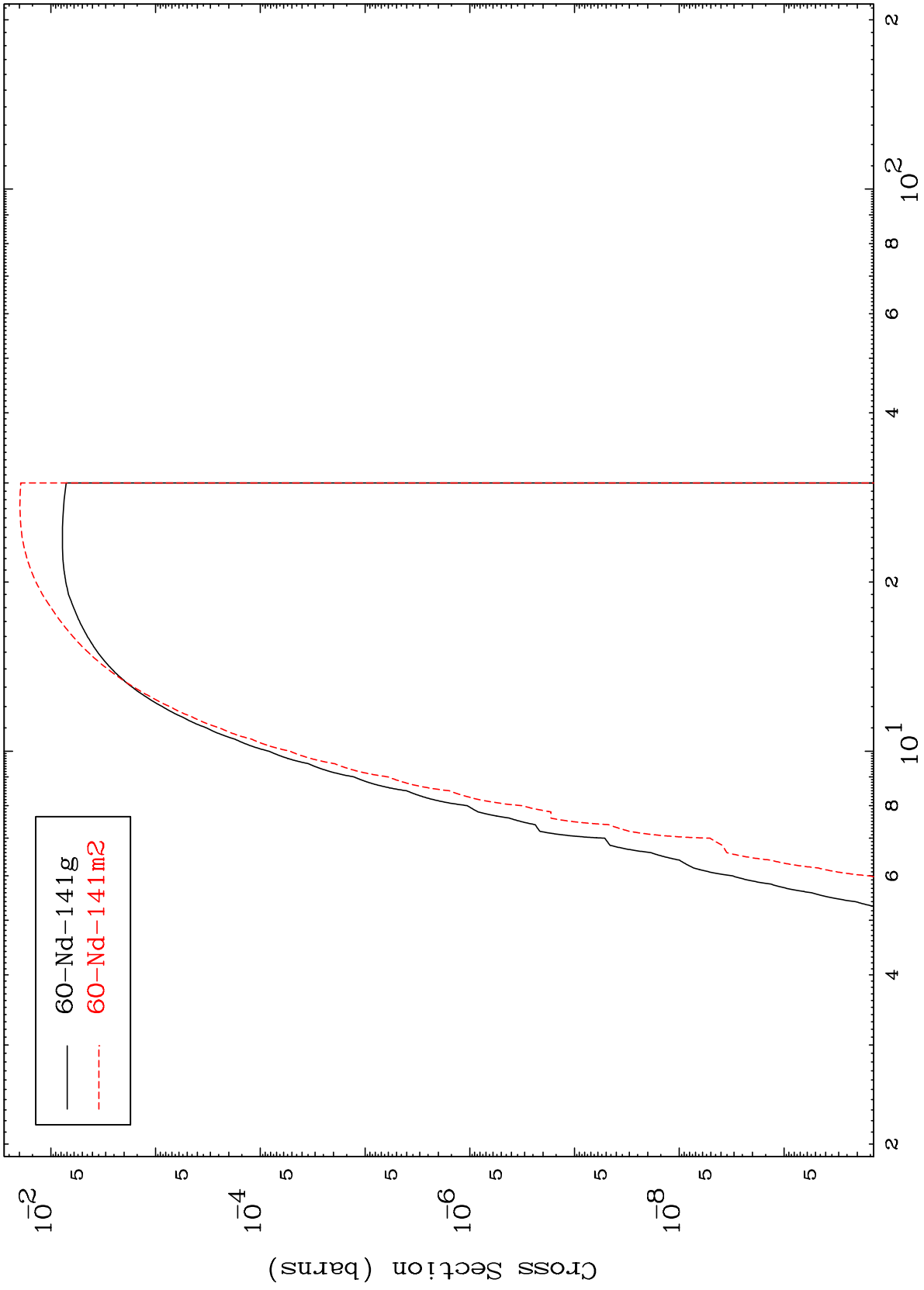
Incident Energy (MeV)

61-Pm-142

MAT 6134

(n,d)
Radionuclide Production Cross Section

61-Pm-142



107

Incident Energy (MeV)

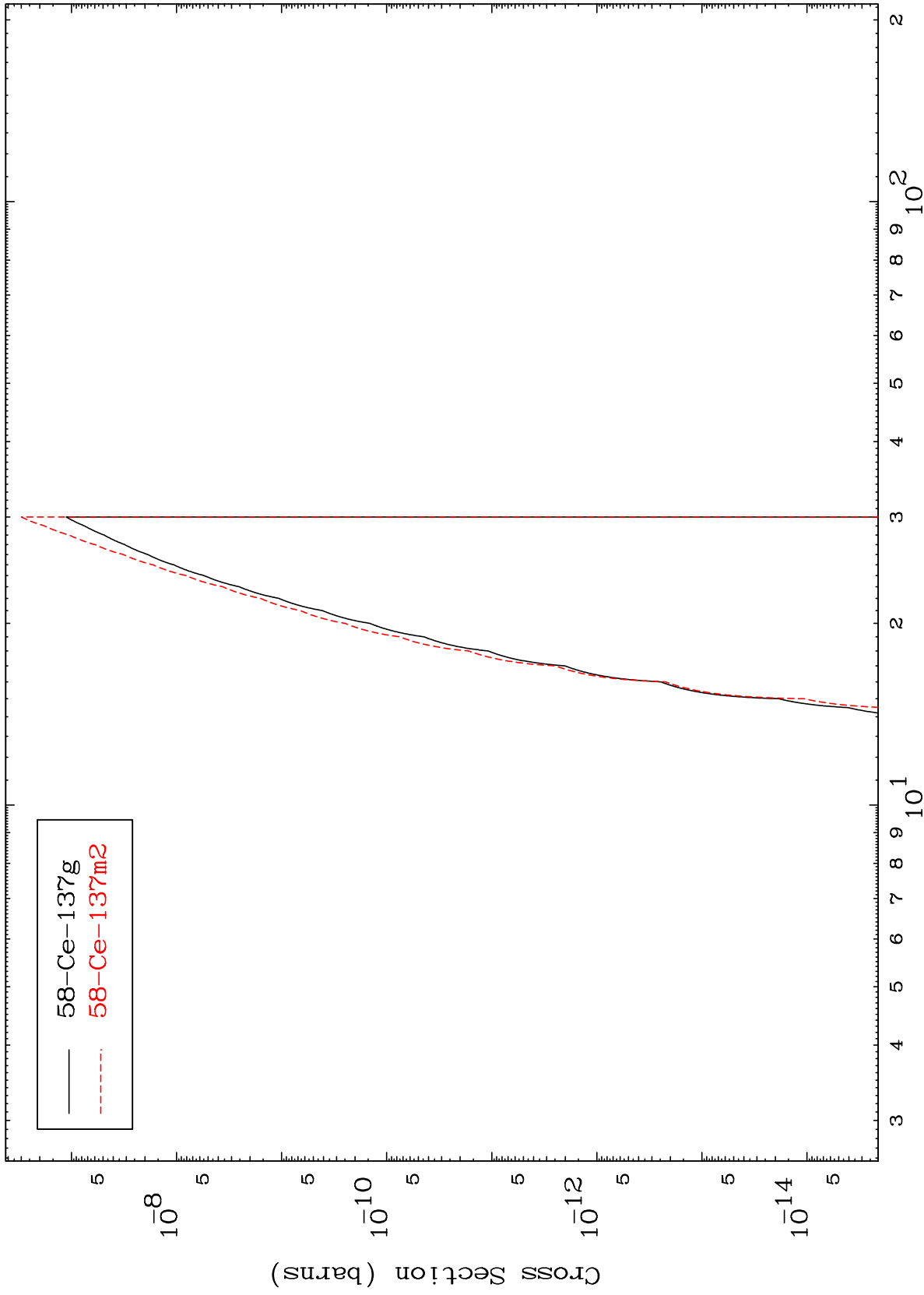
61-Pm-142

MAT 6134

(n,d) α

61-Pm-142

Radionuclide Production Cross Section



108

Incident Energy (MeV)

61-Pm-142