

Program EVALPLOT
(Version 2018-1)

by

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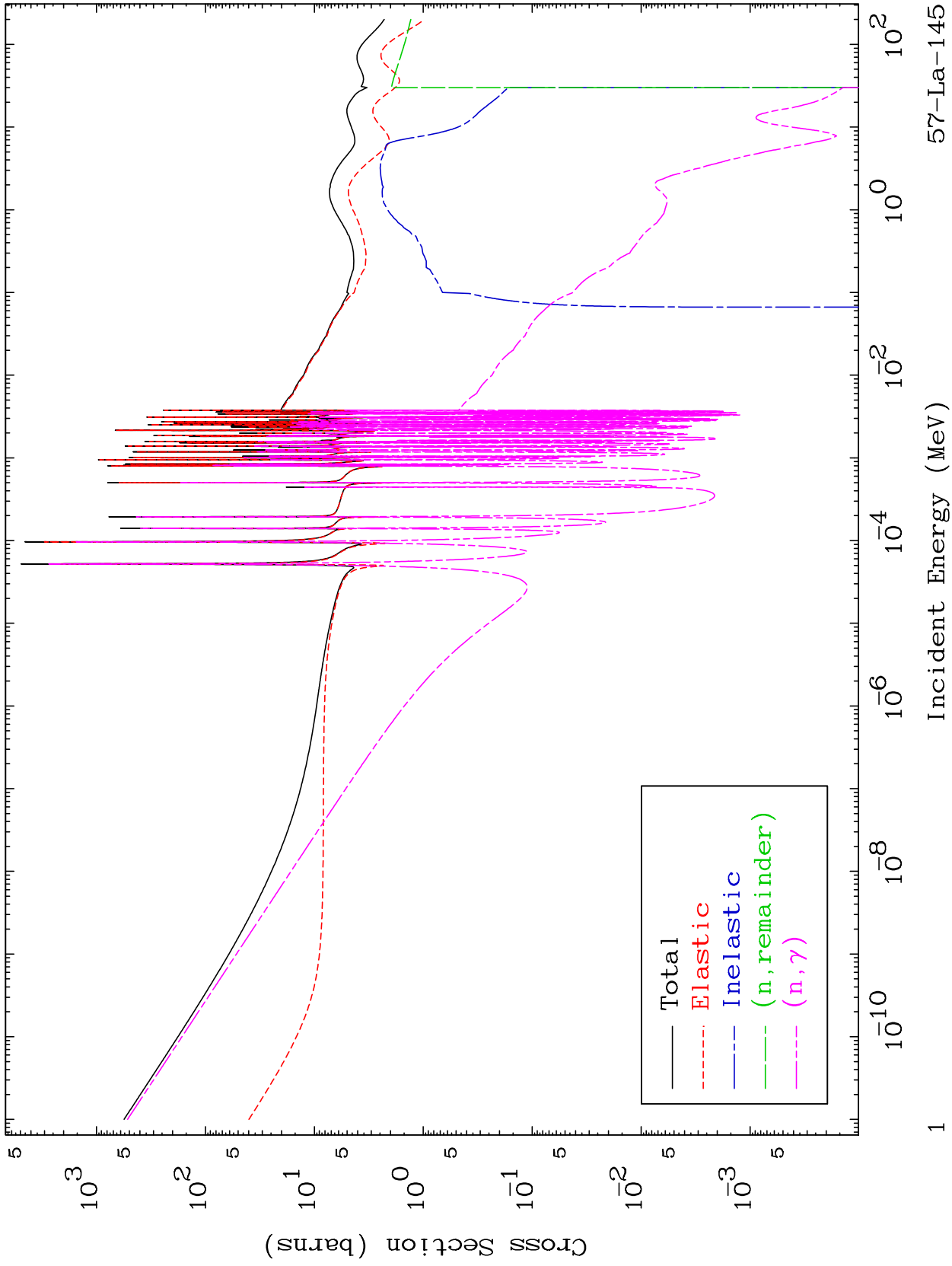
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5746

Major
293 Kelvin Cross Sections

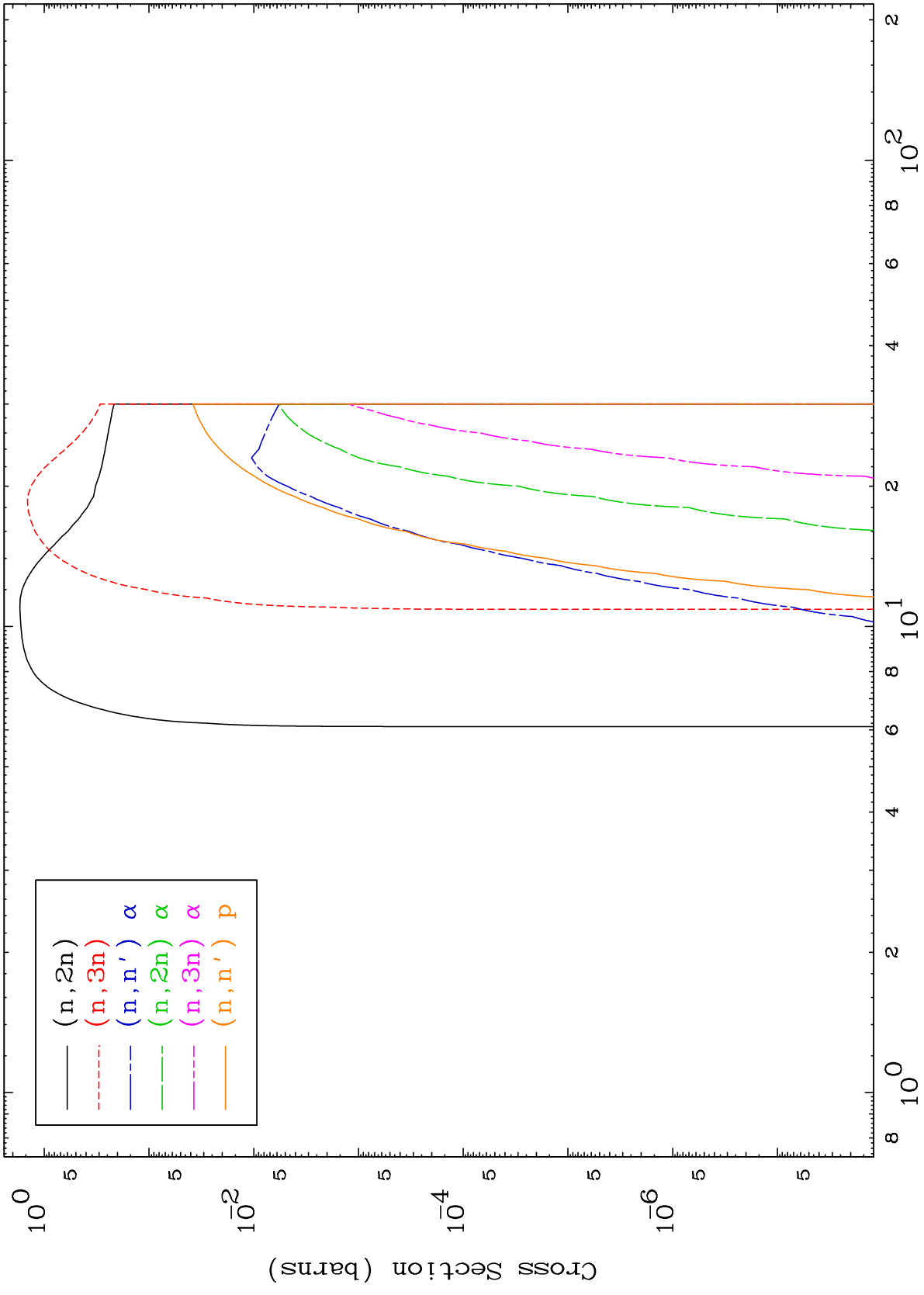
57-La-145



MAT 5746

Neutron Production
293 Kelvin Cross Sections

57-La-145



2

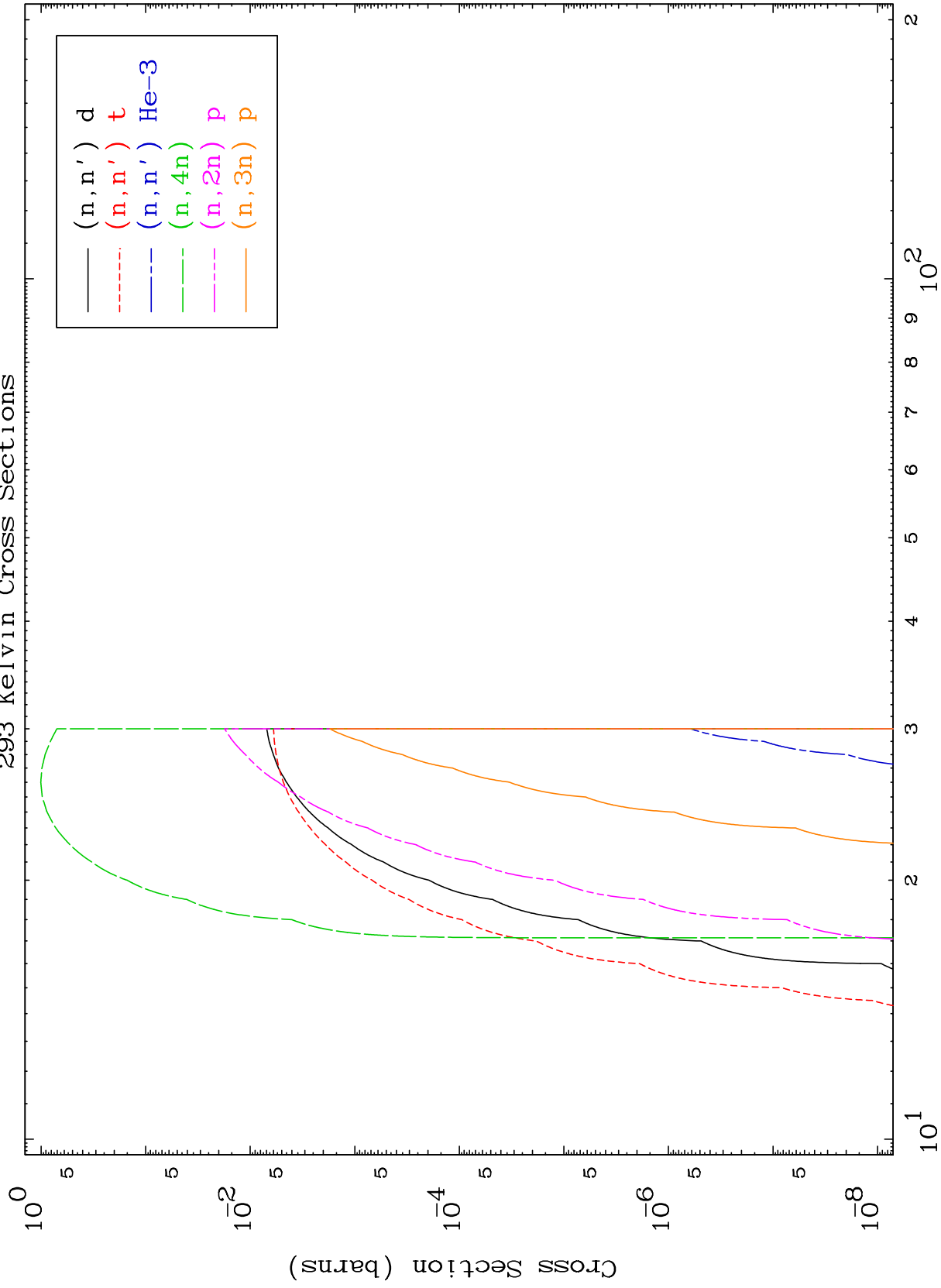
Incident Energy (MeV)

57-La-145

MAT 5746

Neutron Production
293 Kelvin Cross Sections

57-La-145



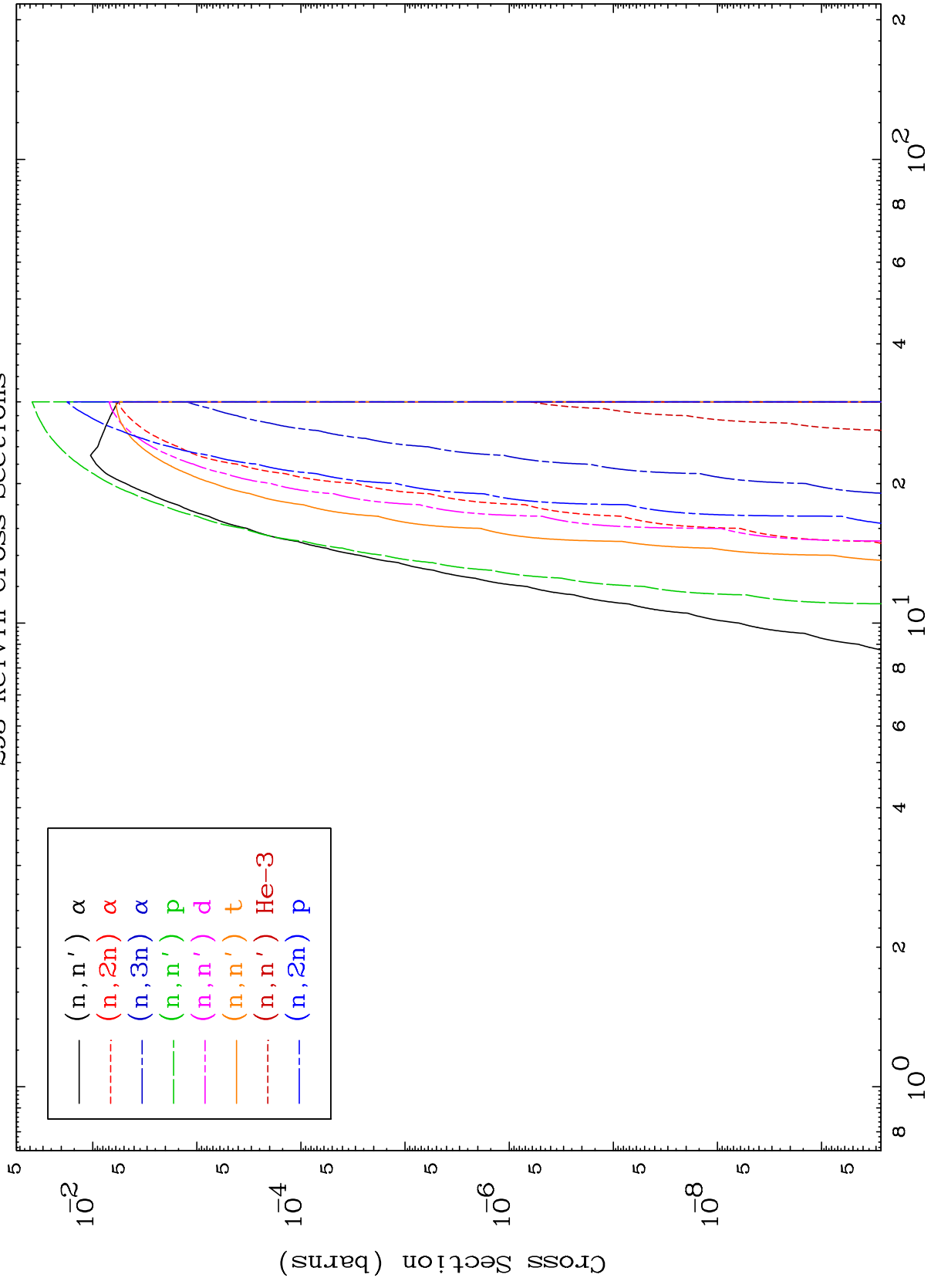
Incident Energy (MeV)

57-La-145

MAT 5746

293 Kelvin Cross Sections

57-La-145



4

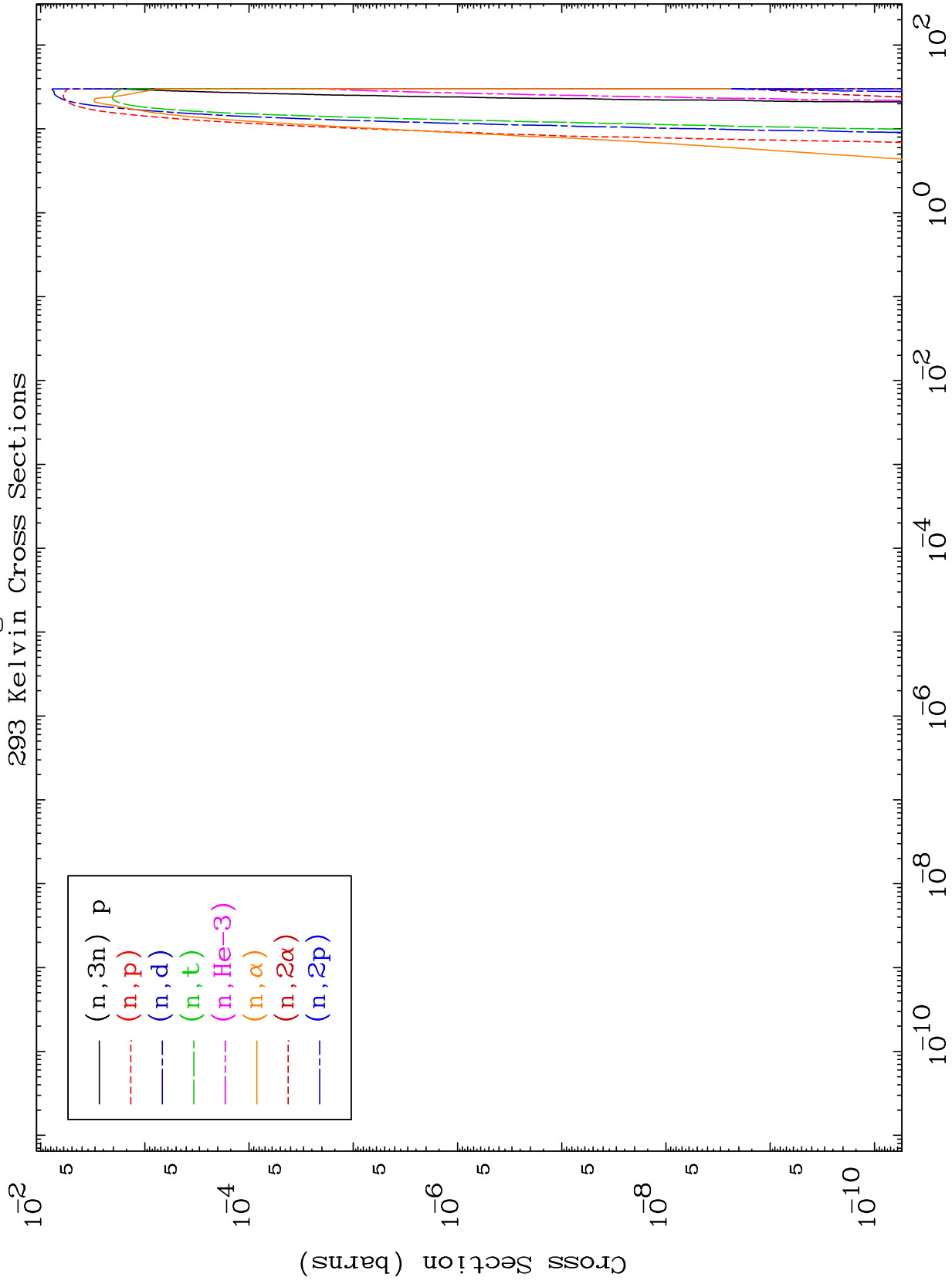
Incident Energy (MeV)

57-La-145

MAT 5746

Charged Particle
293 Kelvin Cross Sections

57-La-145



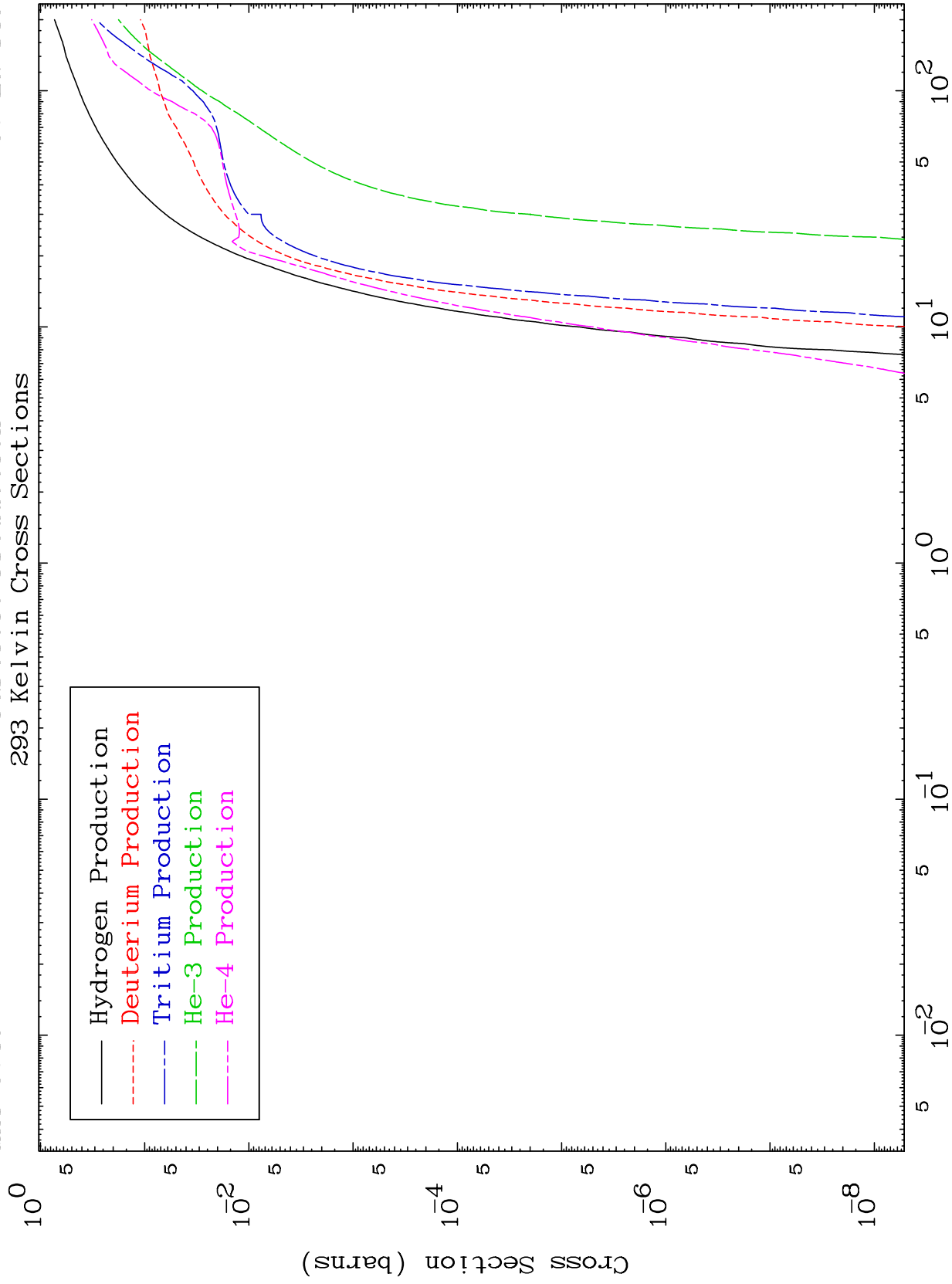
5

57-La-145

MAT 5746

Particle Production
293 Kelvin Cross Sections

57-La-145



6

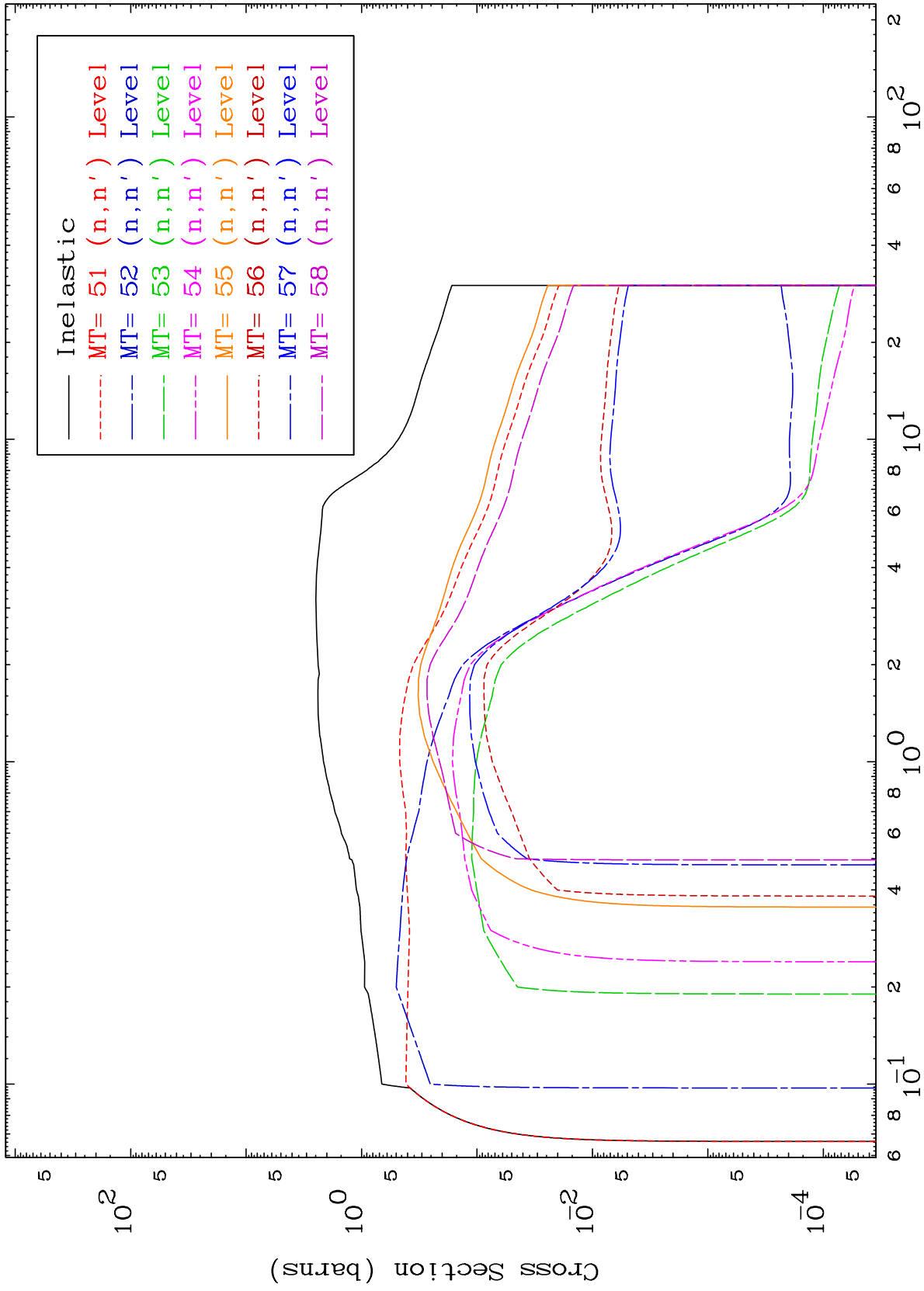
57-La-145

MAT 5746

(n,n') Level

57-La-145

293 Kelvin Cross Sections



7

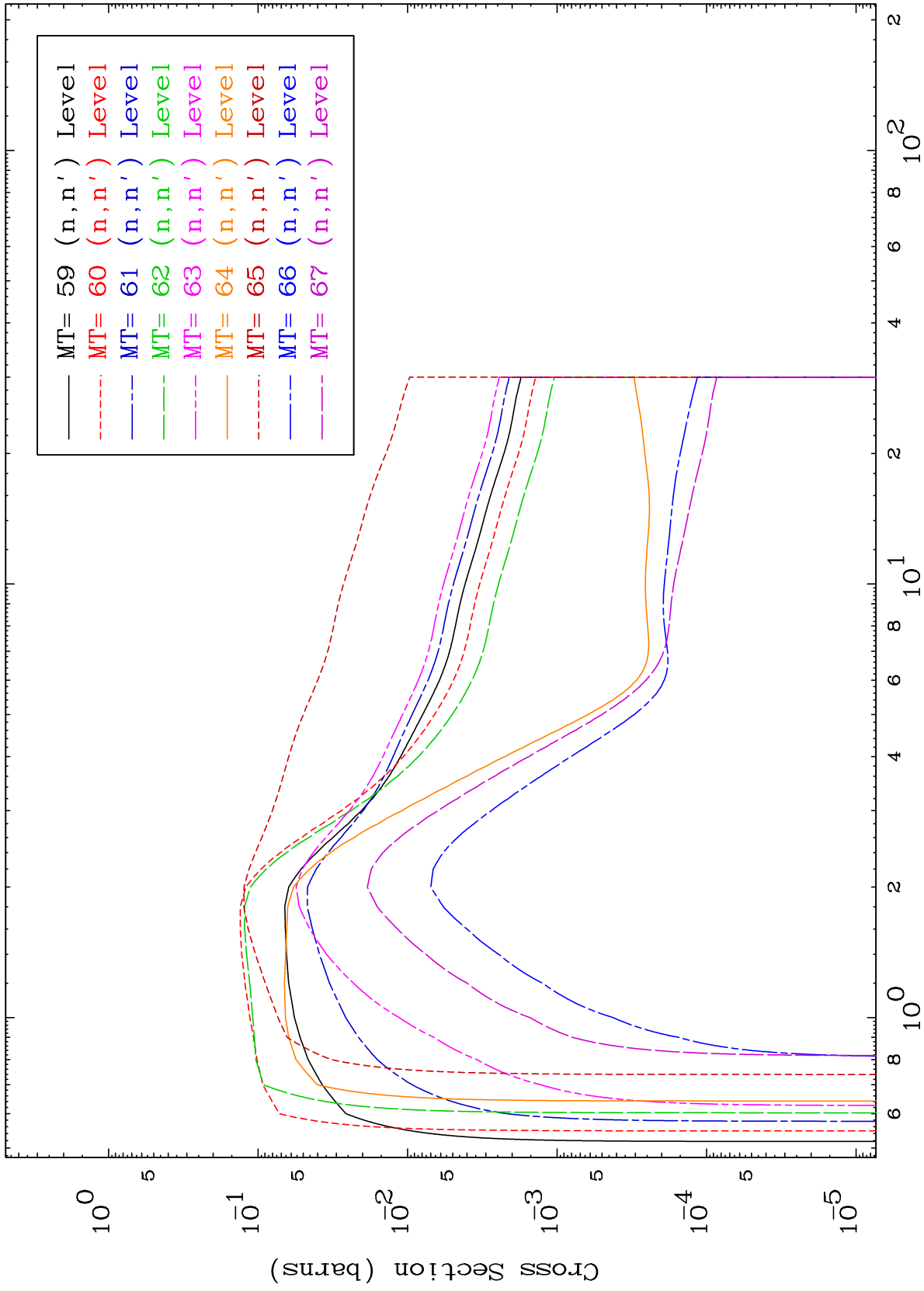
Incident Energy (MeV)

57-La-145

MAT 5746

(n,n') Level
293 Kelvin Cross Sections

57-La-145



8

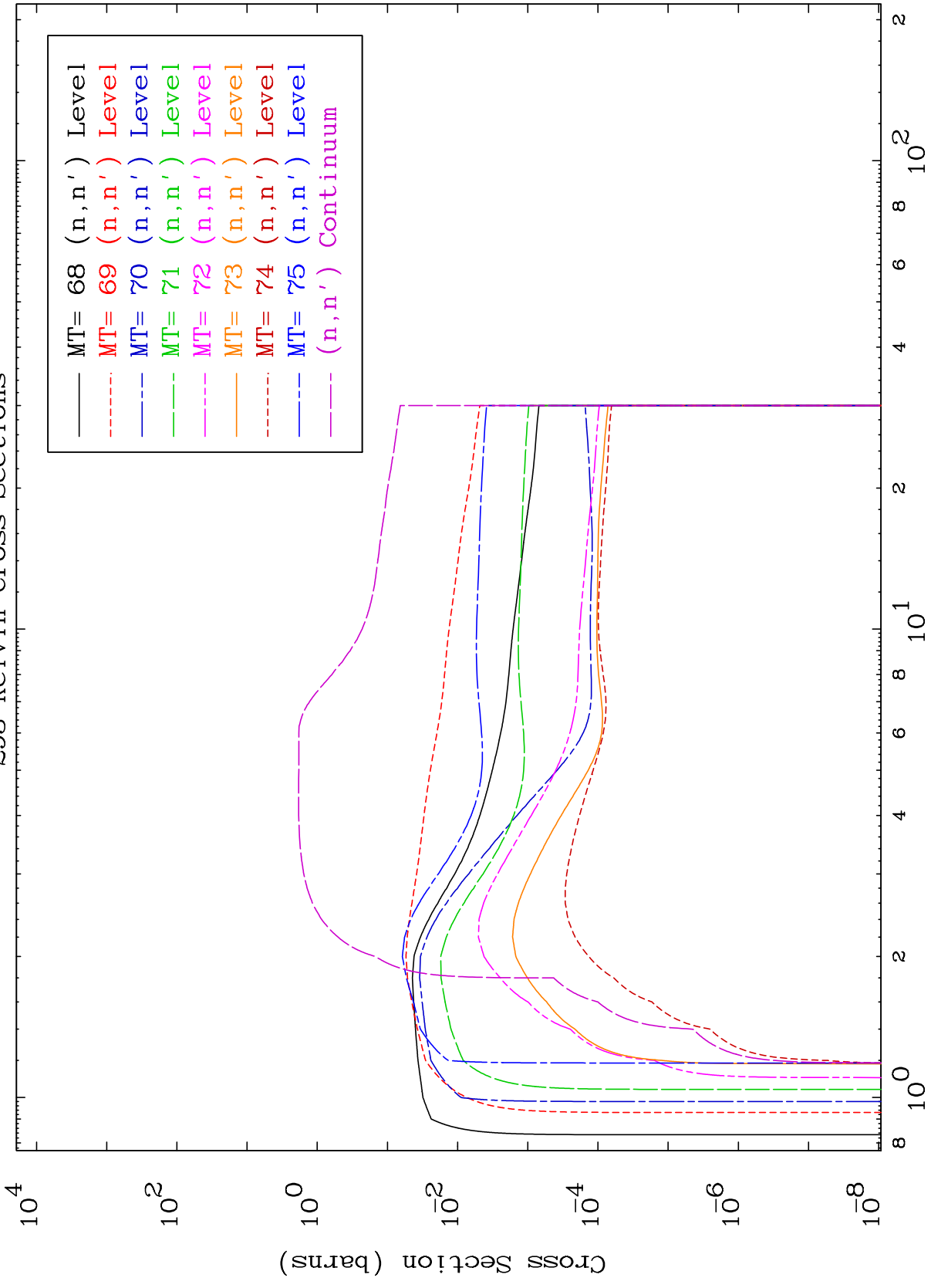
Incident Energy (MeV)

57-La-145

MAT 5746

(n,n') Level
293 Kelvin Cross Sections

57-La-145



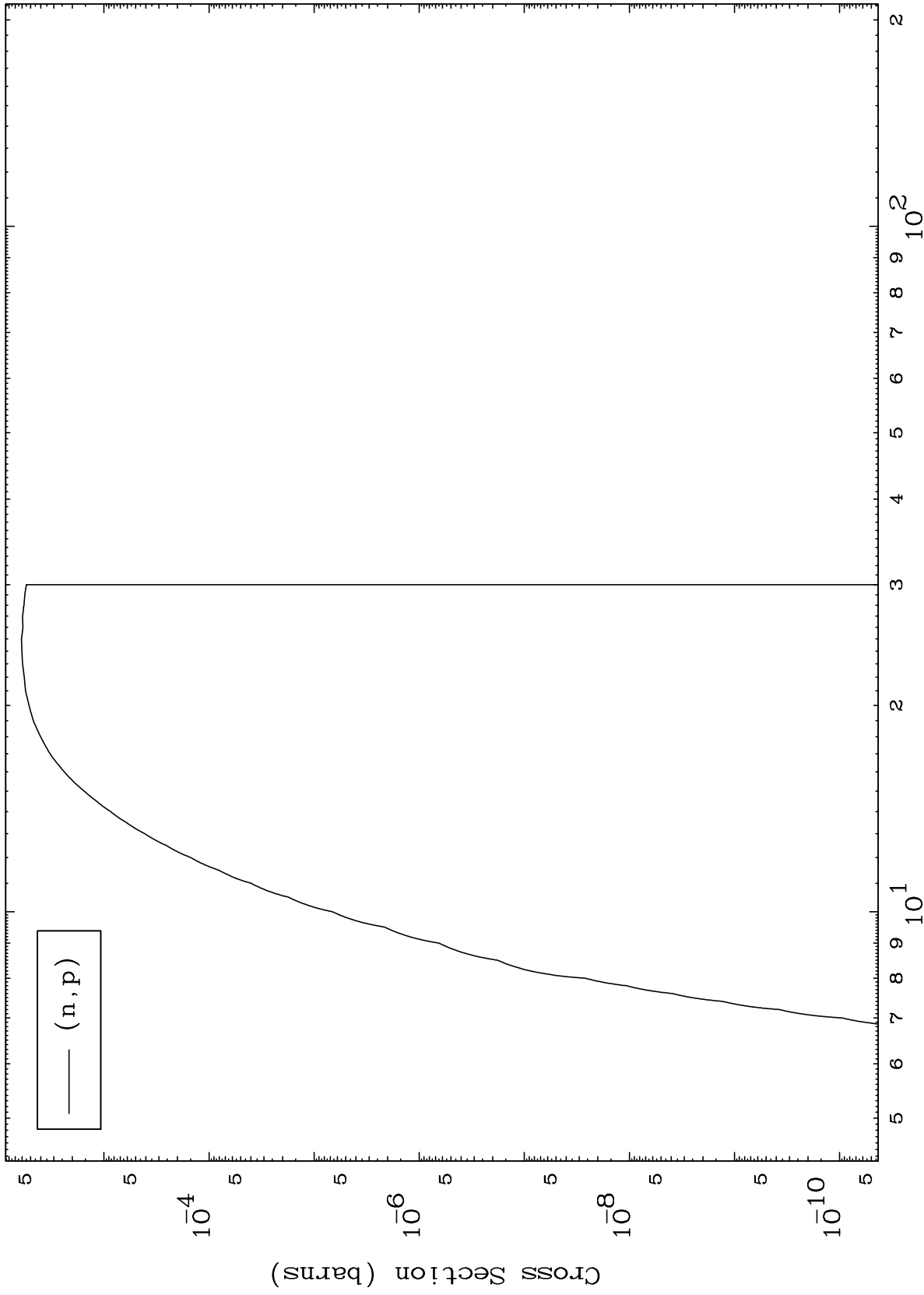
Incident Energy (MeV)

57-La-145

MAT 5746

(n,p) Levels
293 Kelvin Cross Sections

57-La-145



10

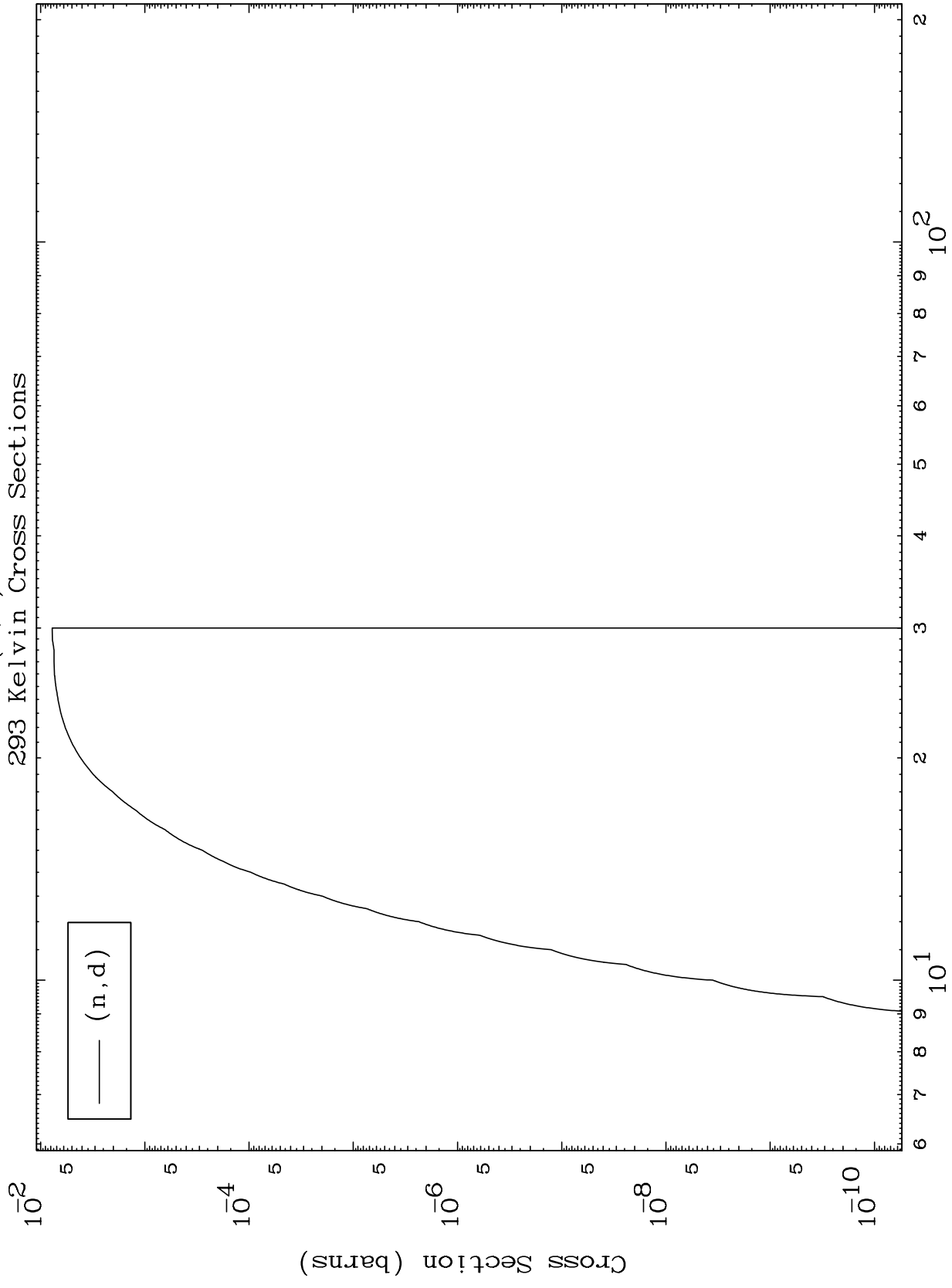
Incident Energy (MeV)

57-La-145

MAT 5746

(n,d) Levels
293 Kelvin Cross Sections

57-La-145



11

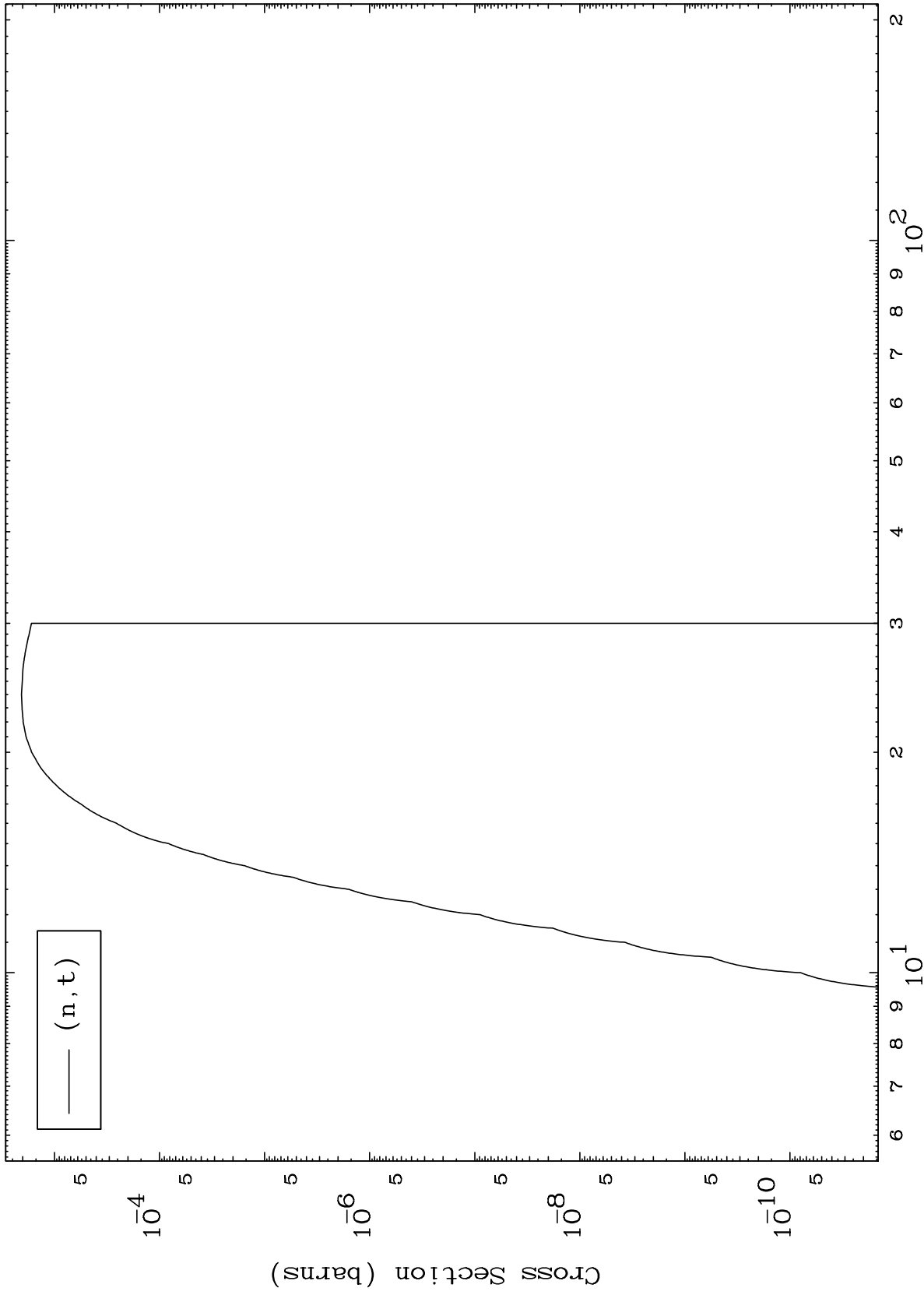
Incident Energy (MeV)

57-La-145

MAT 5746

(n,t) Levels
293 Kelvin Cross Sections

57-La-145



12

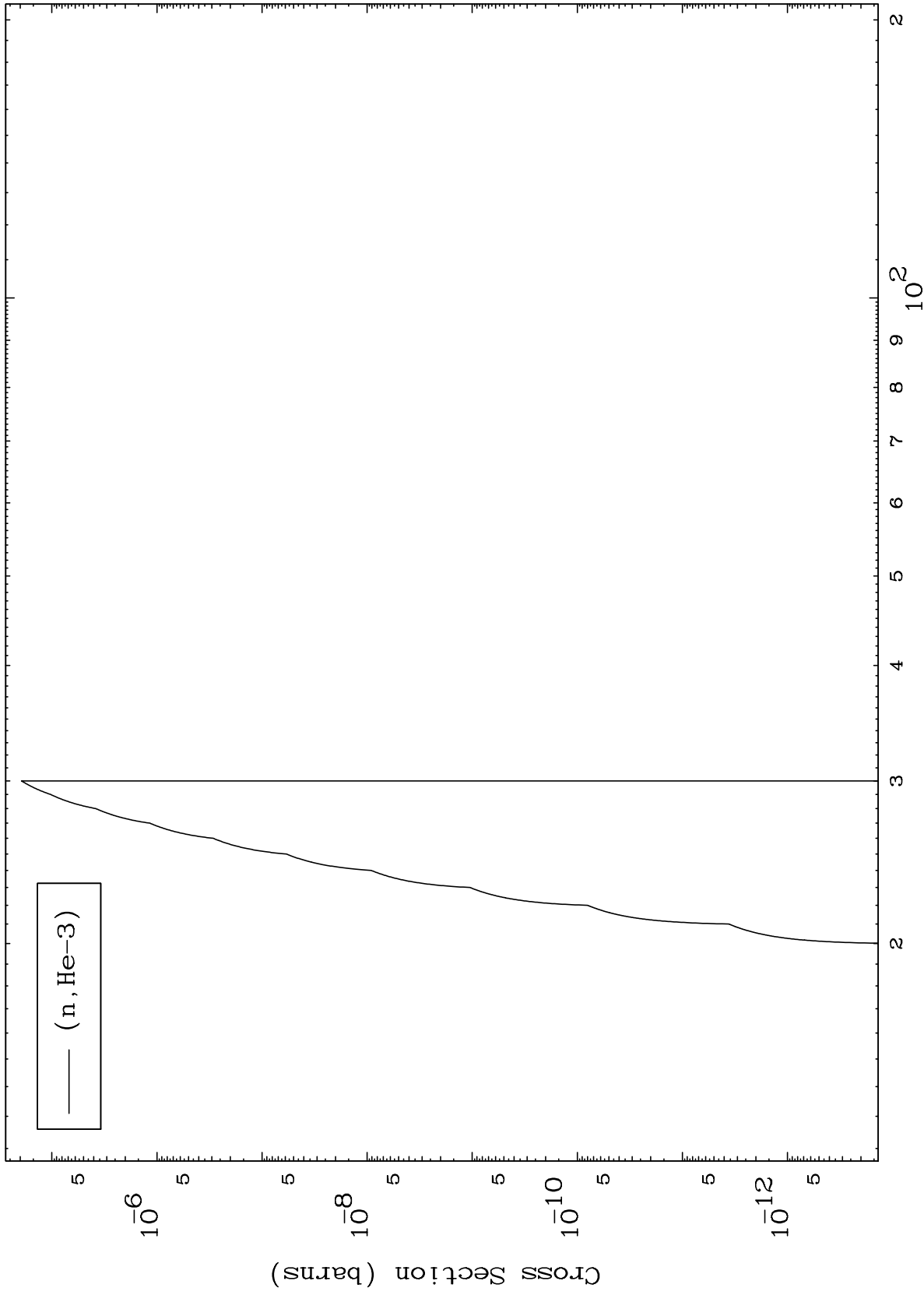
Incident Energy (MeV)

57-La-145

MAT 5746

(n,He3) Levels
293 Kelvin Cross Sections

57-La-145



13

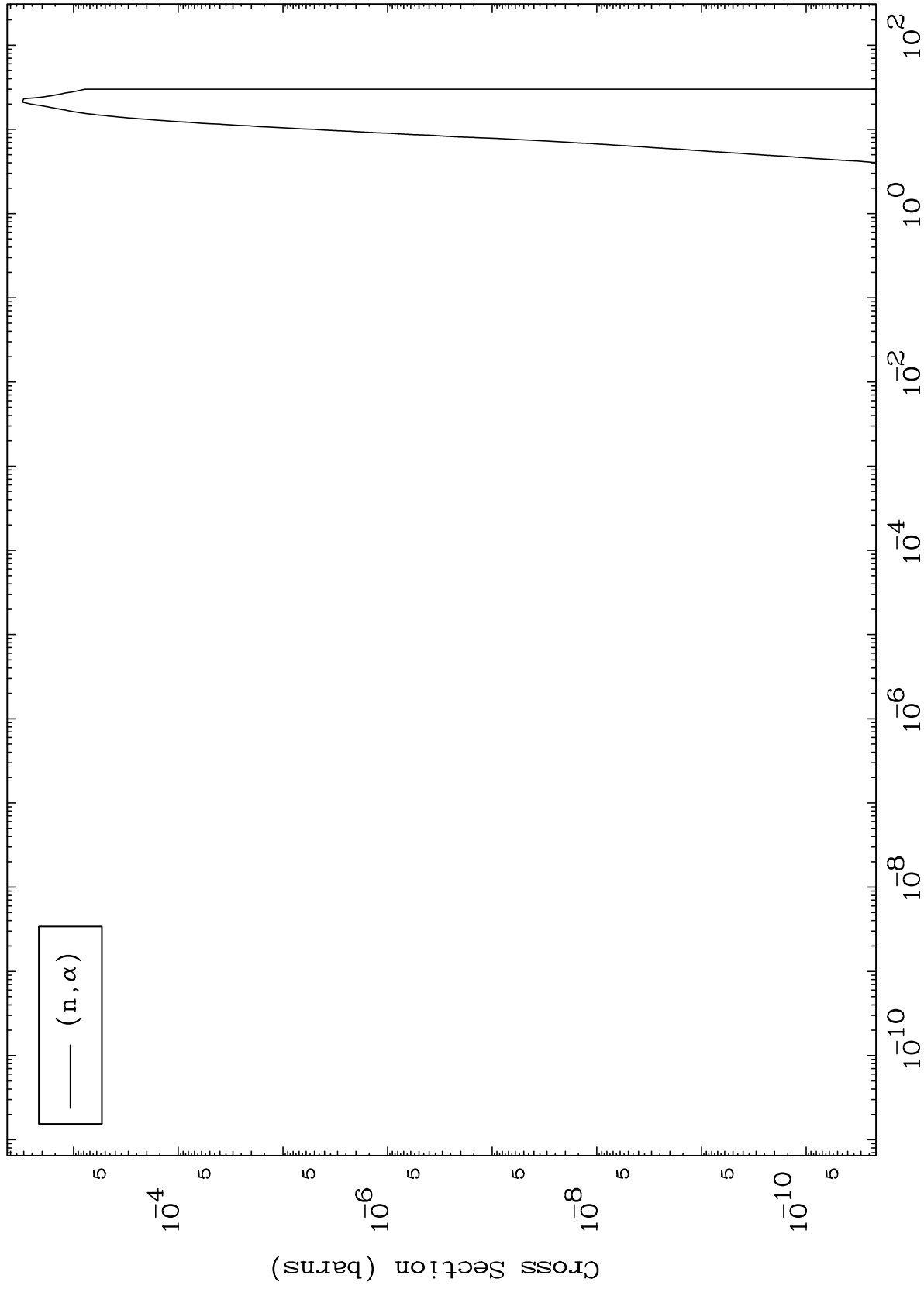
Incident Energy (MeV)

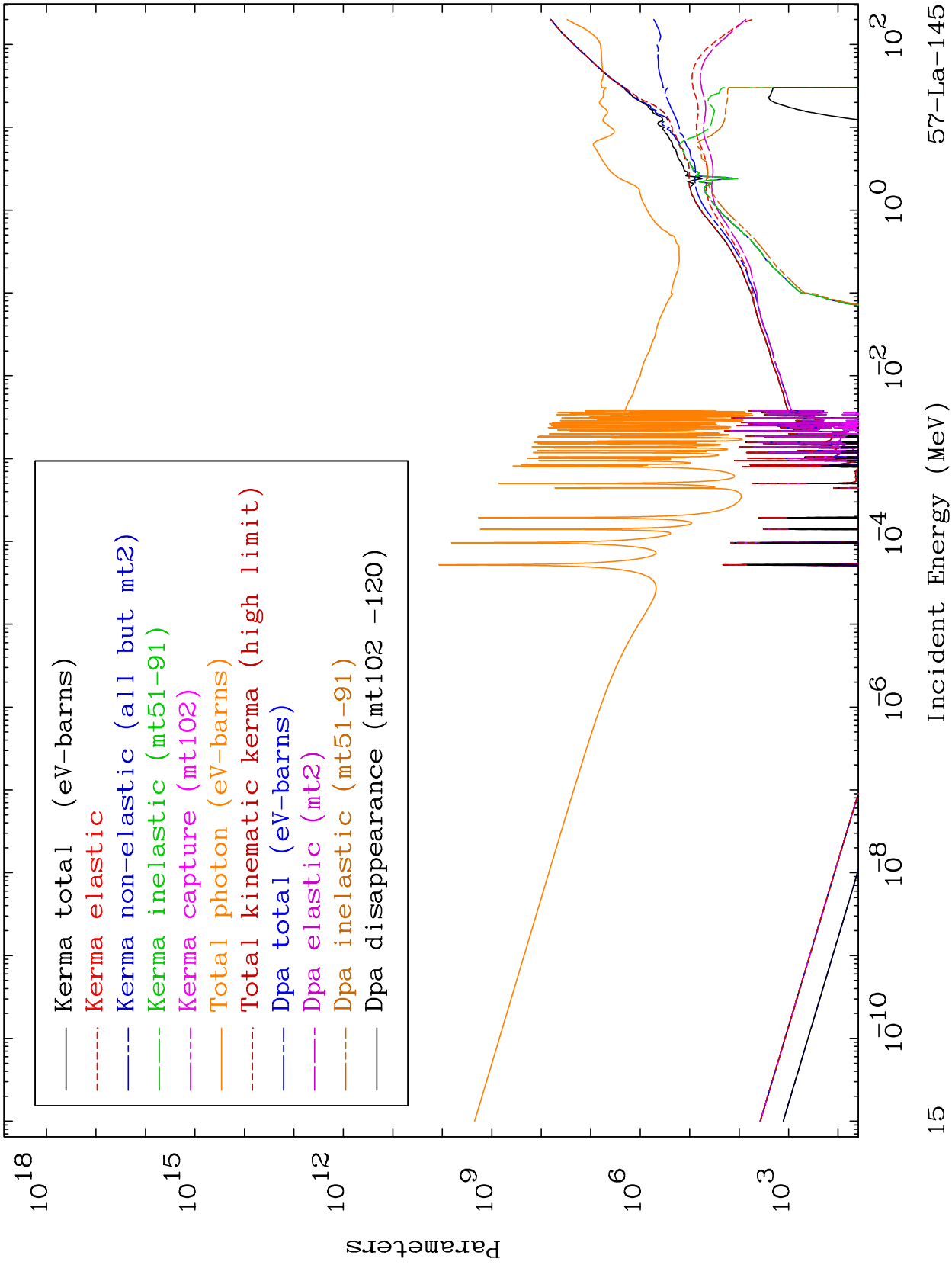
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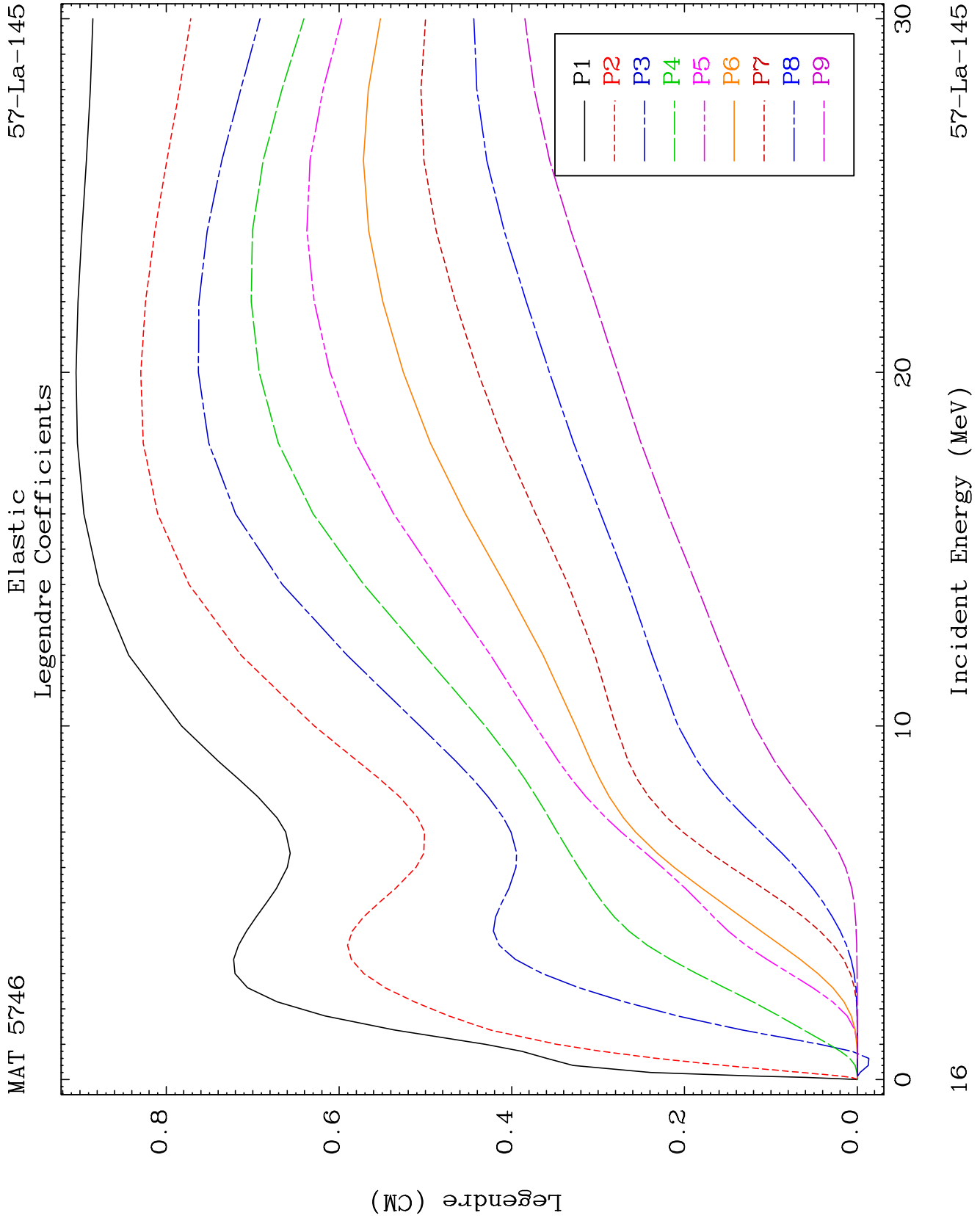
MAT 5746

(n,α) Levels
293 Kelvin Cross Sections

57-La-145



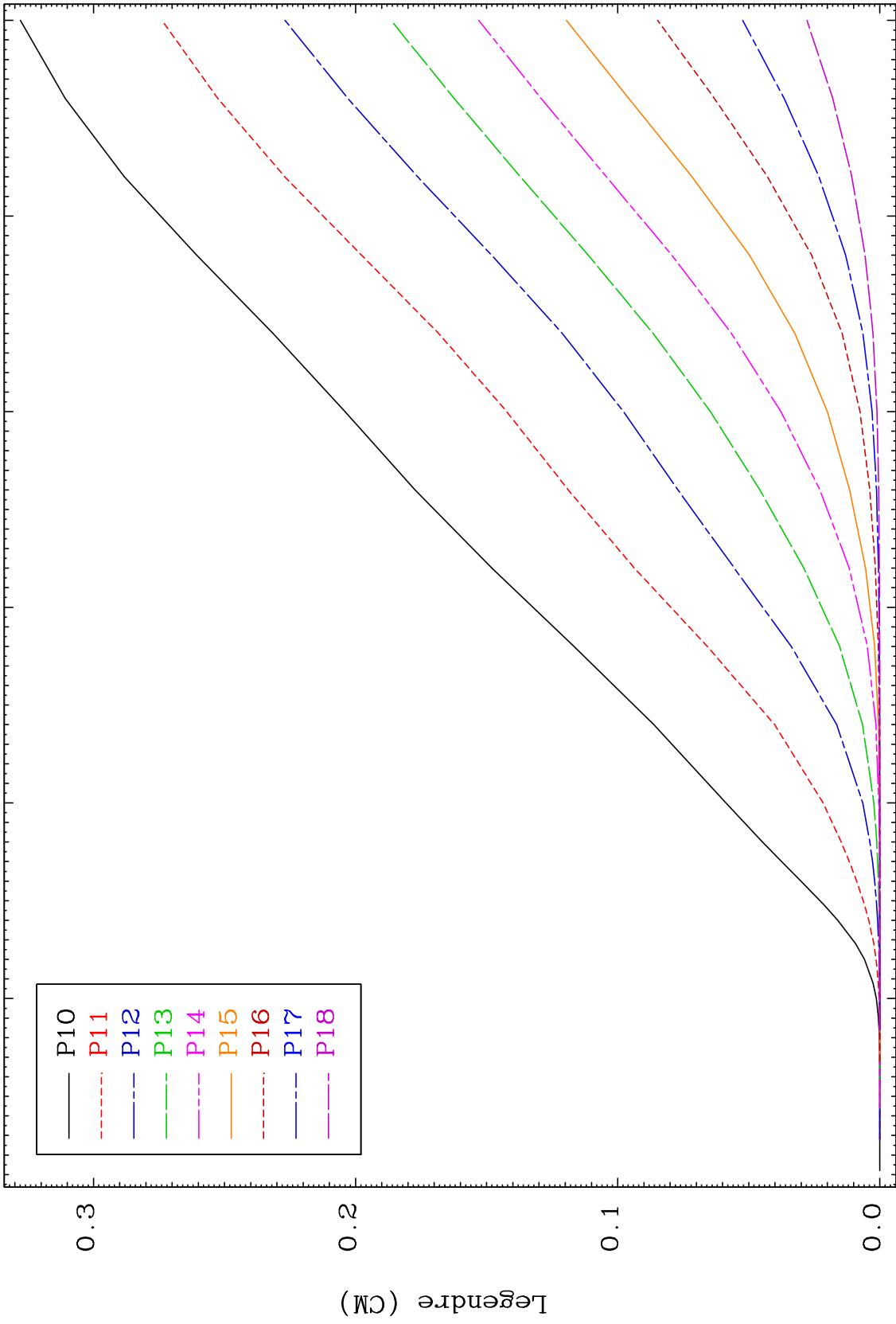




MAT 5746

Elastic Legendre Coefficients

57-La-145



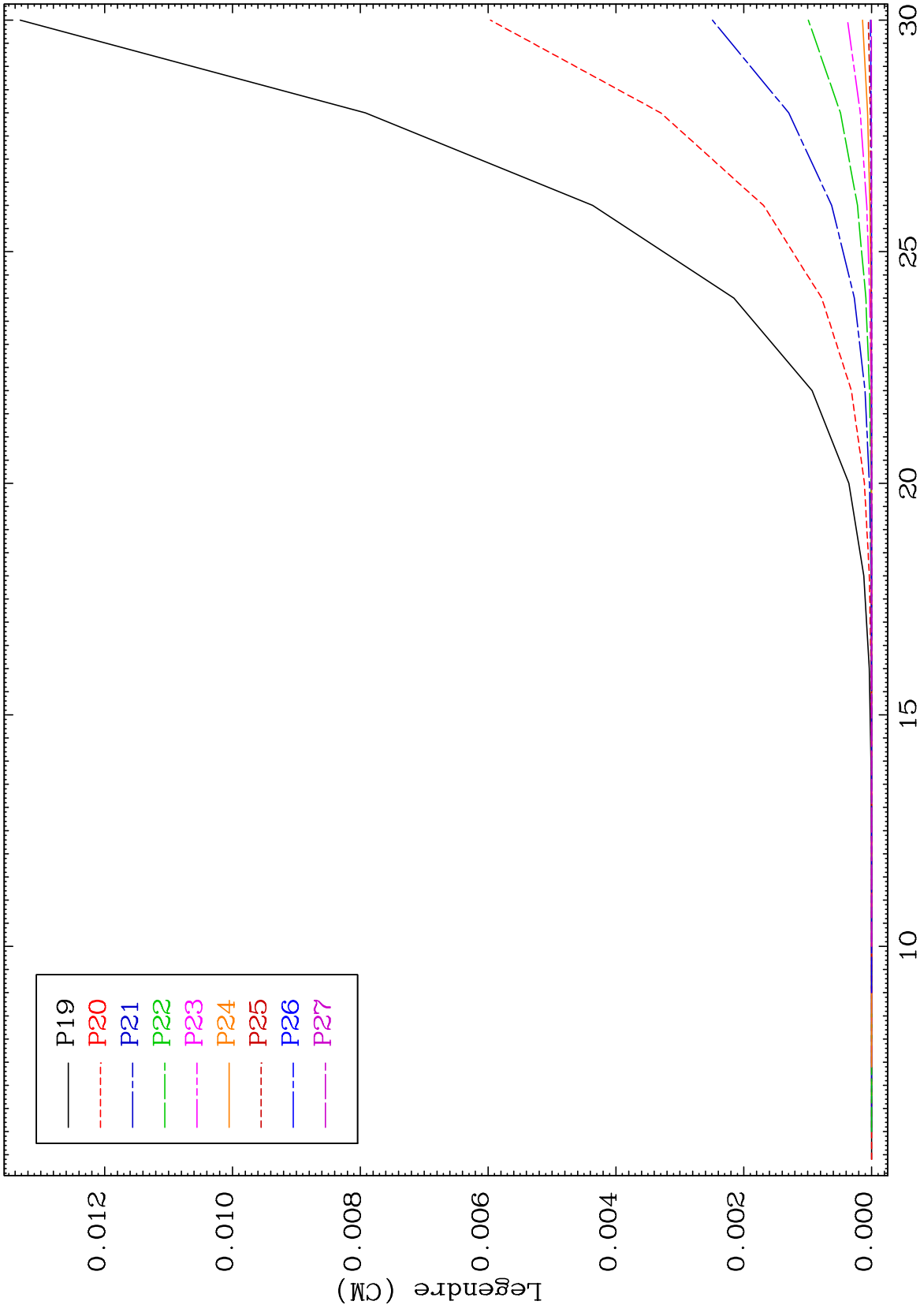
17

57-La-145

MAT 5746

Elastic Legendre Coefficients

57-La-145



18

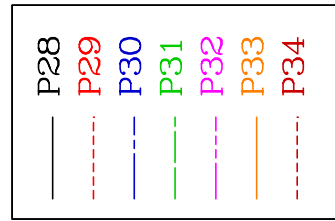
Incident Energy (MeV)

57-La-145

MAT 5746

Elastic Legendre Coefficients

57-La-145



$\times 10^{-6}$

Legendre (CM)

1.5

1.0

0.5

0.0

10

15

20

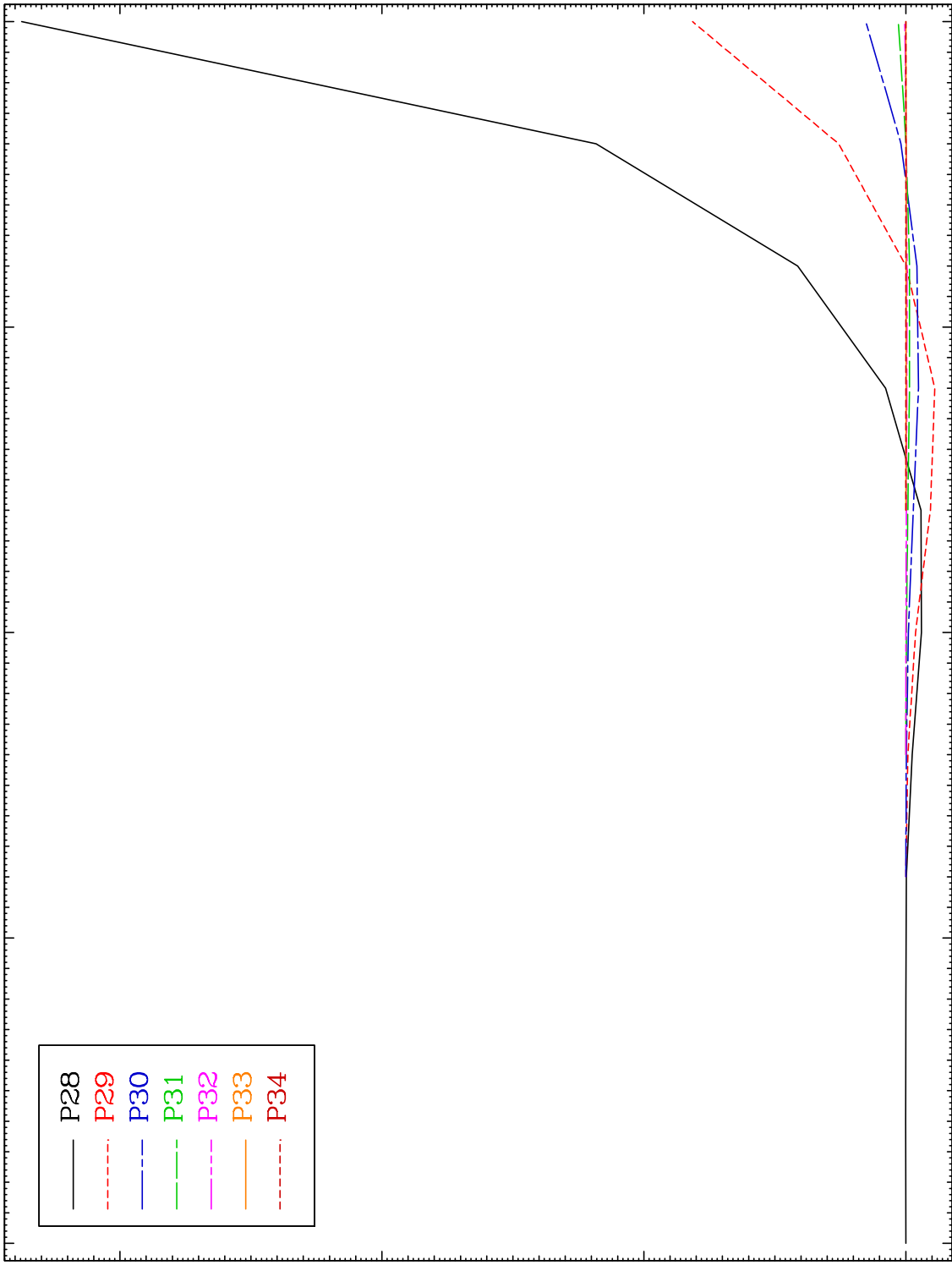
25

30

19

Incident Energy (MeV)

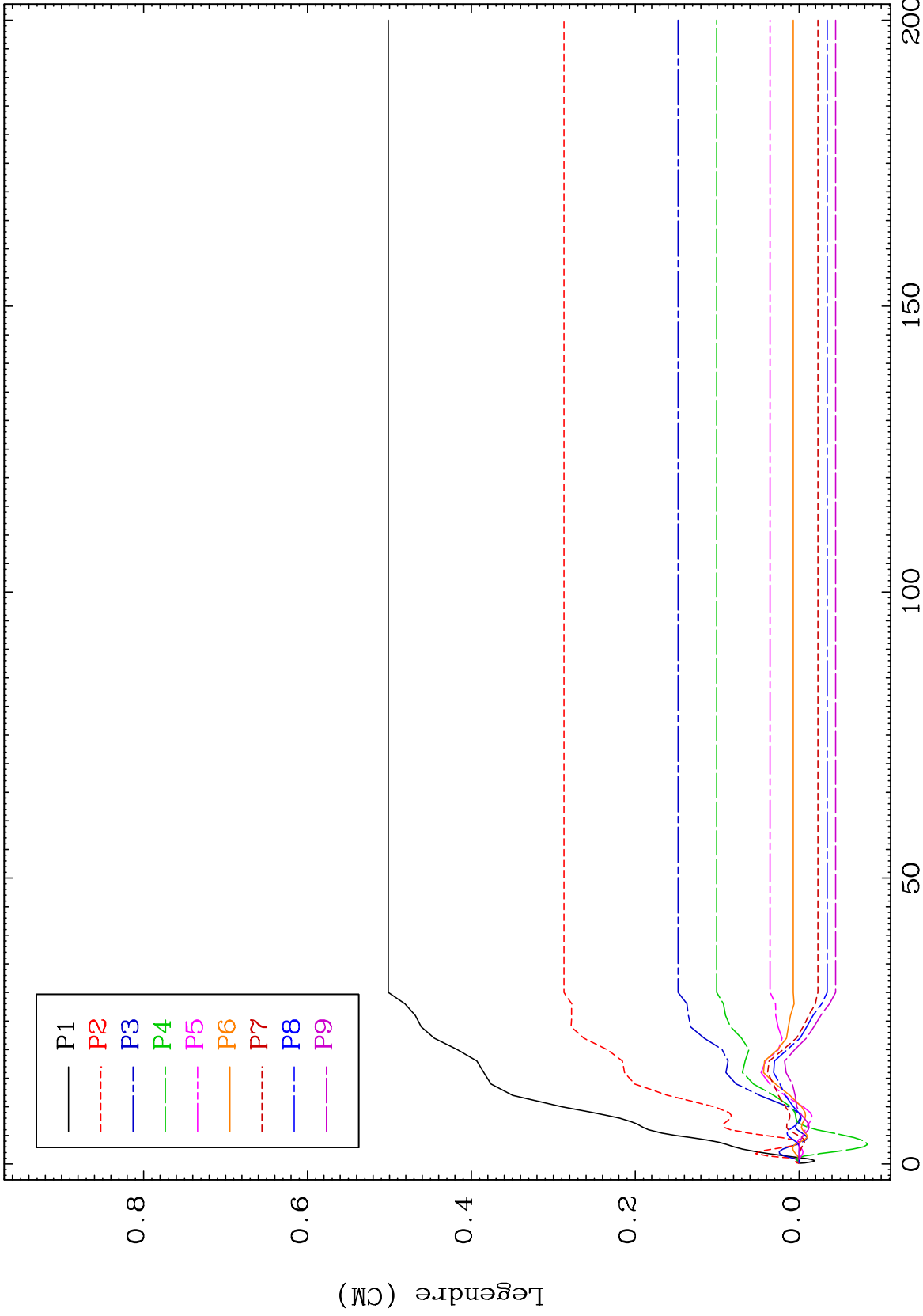
57-La-145



MAT 5746

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

57-La-145



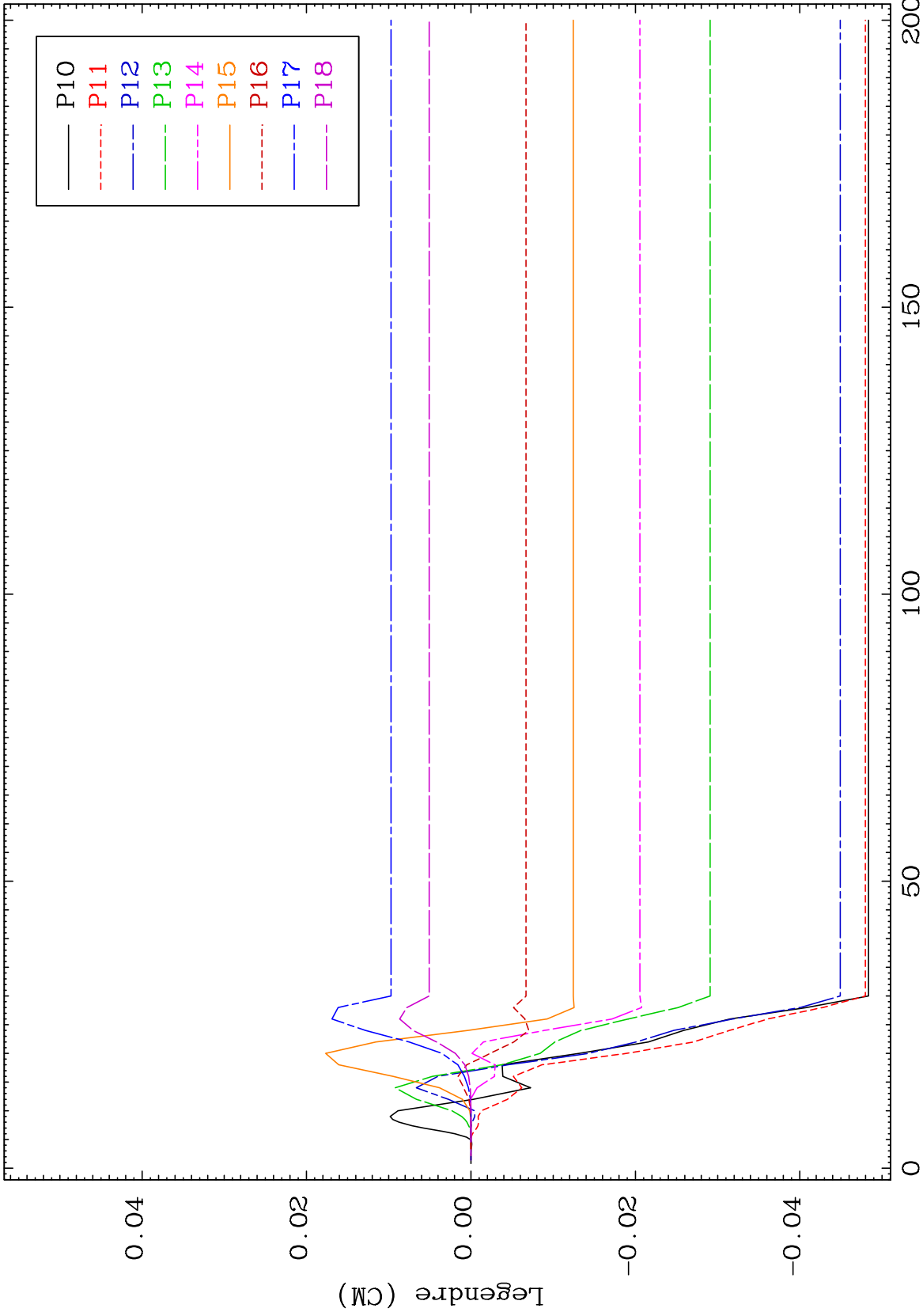
57-La-145

Incident Energy (MeV)

MAT 5746

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

57-La-145



21

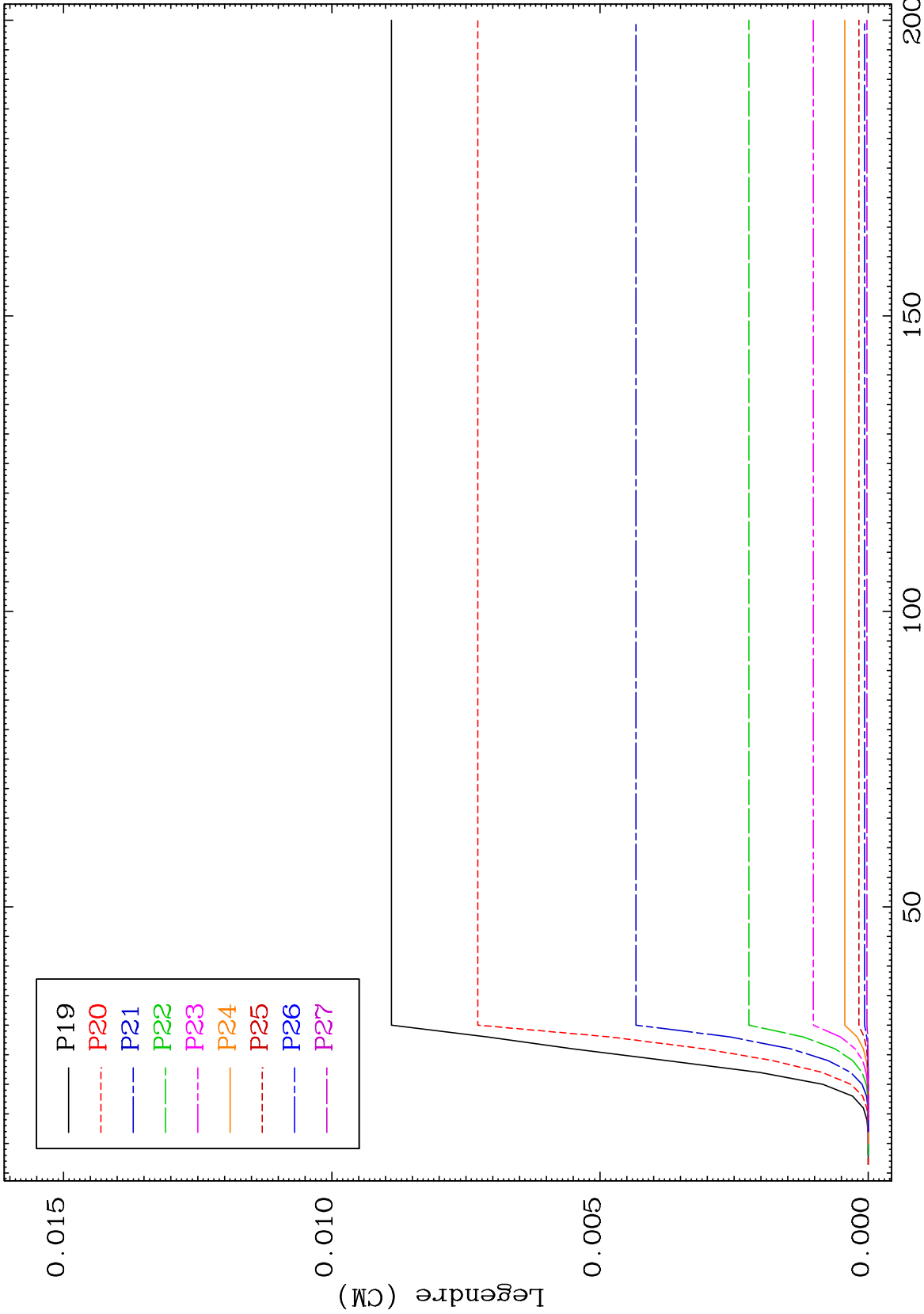
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



22

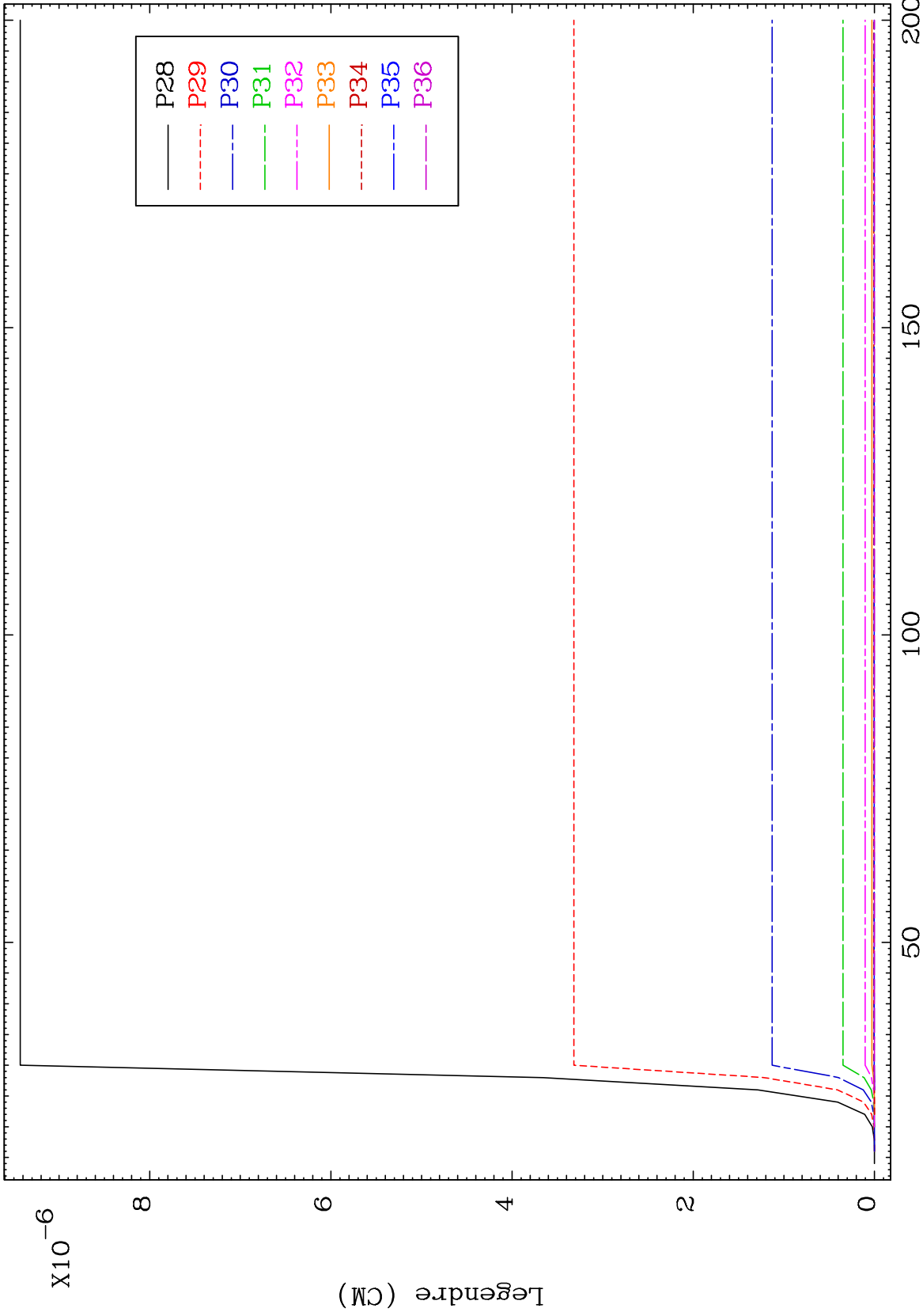
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



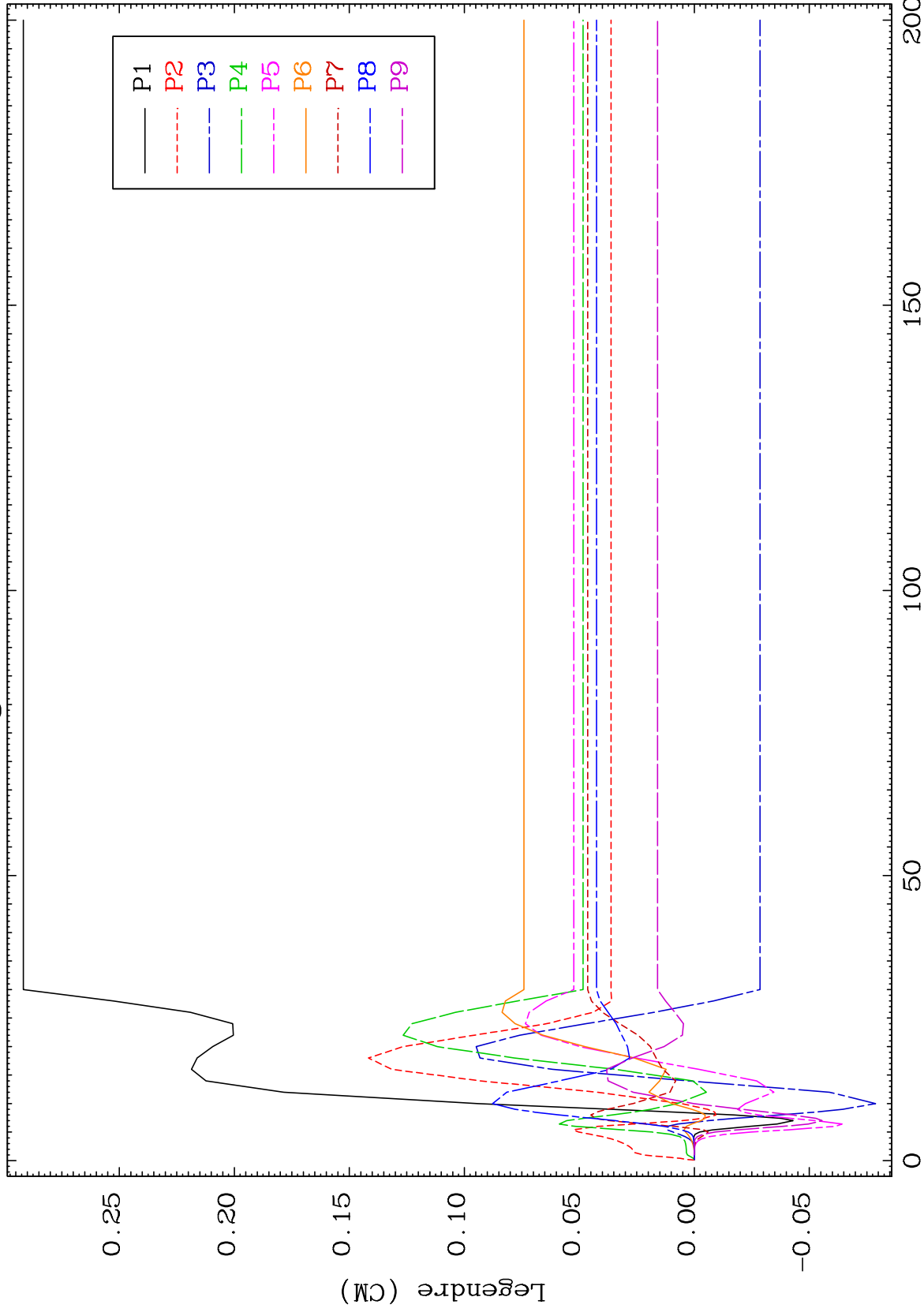
23

57-La-145

MAT 5746

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

57-La-145



24

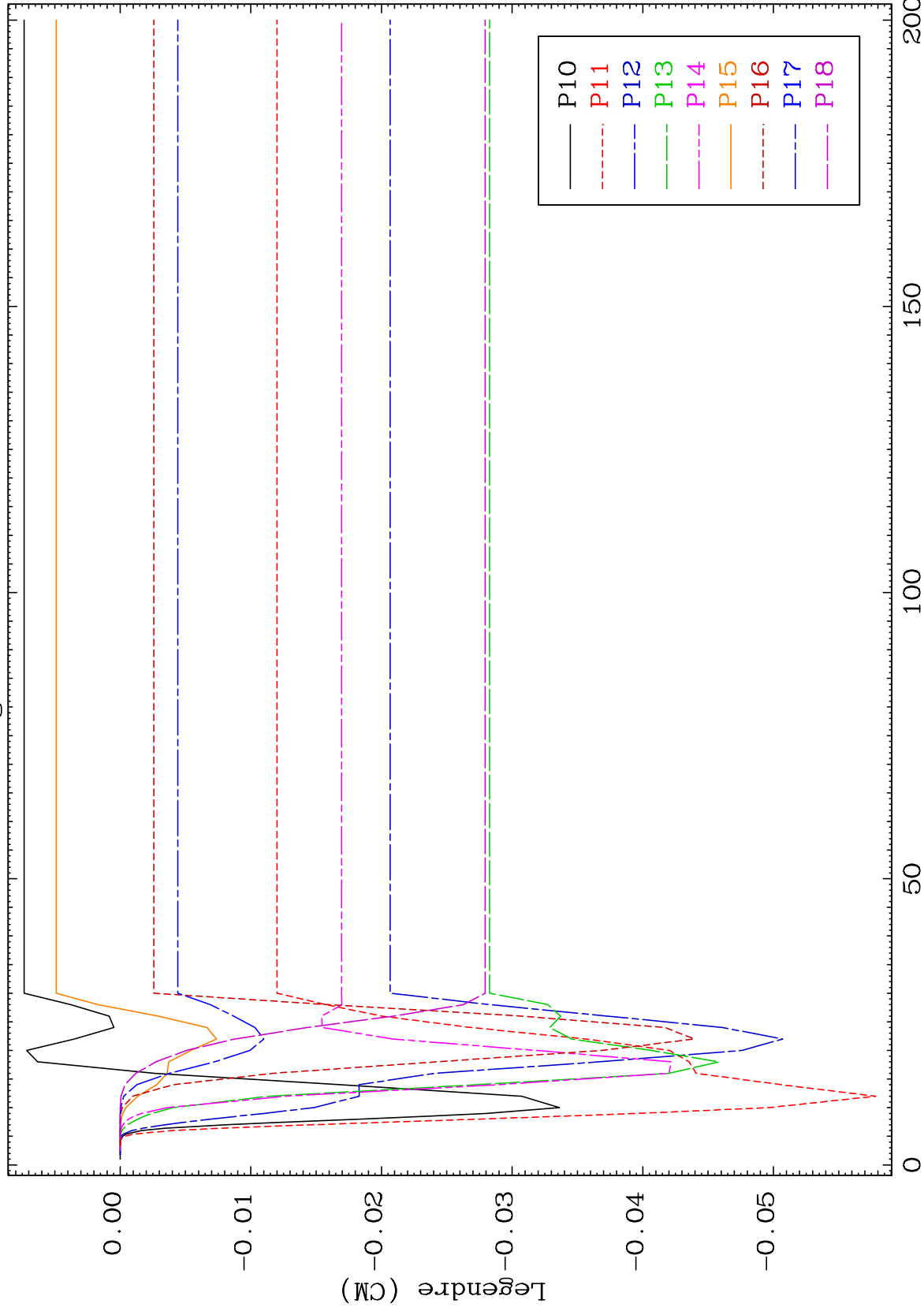
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



25

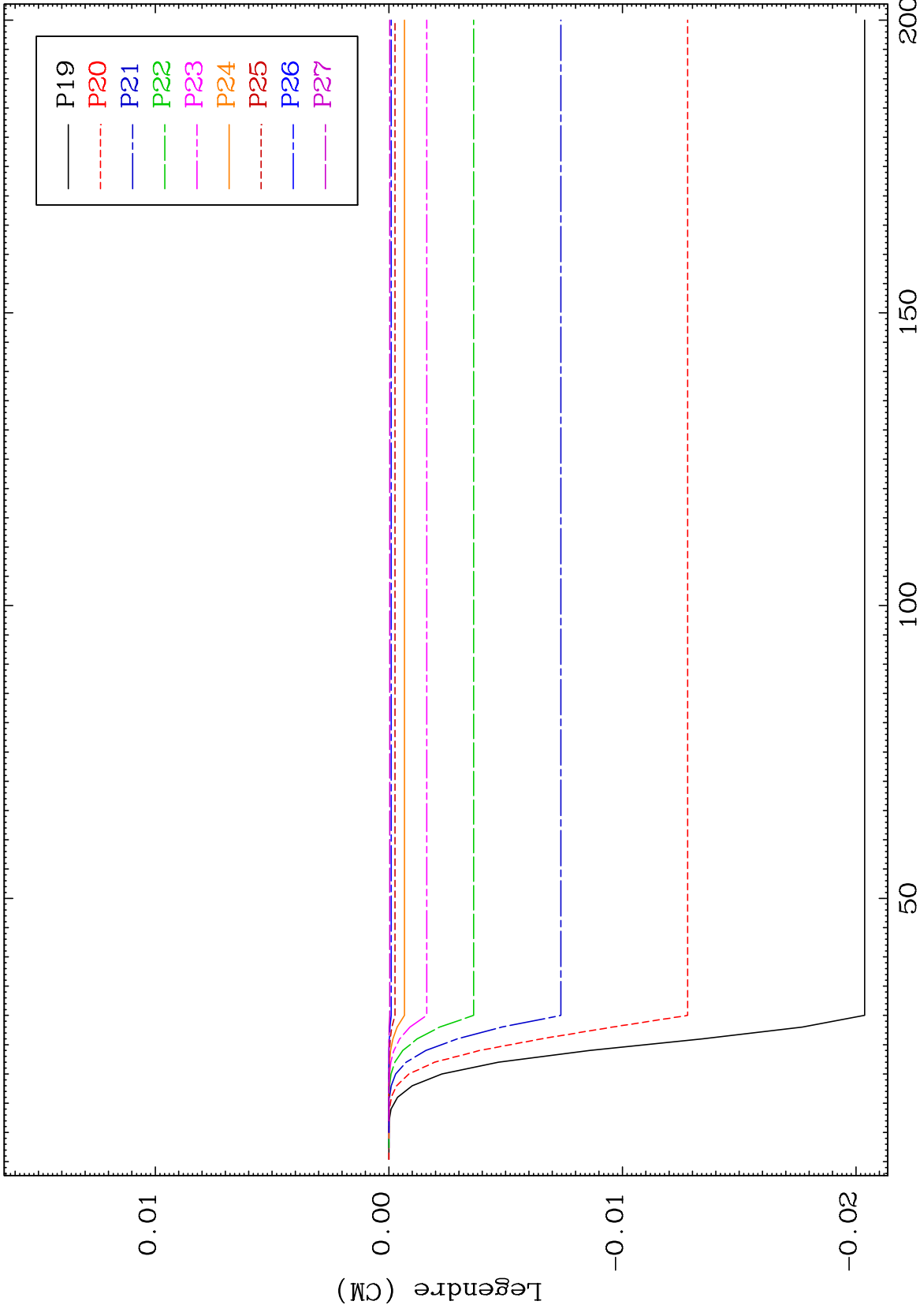
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



26

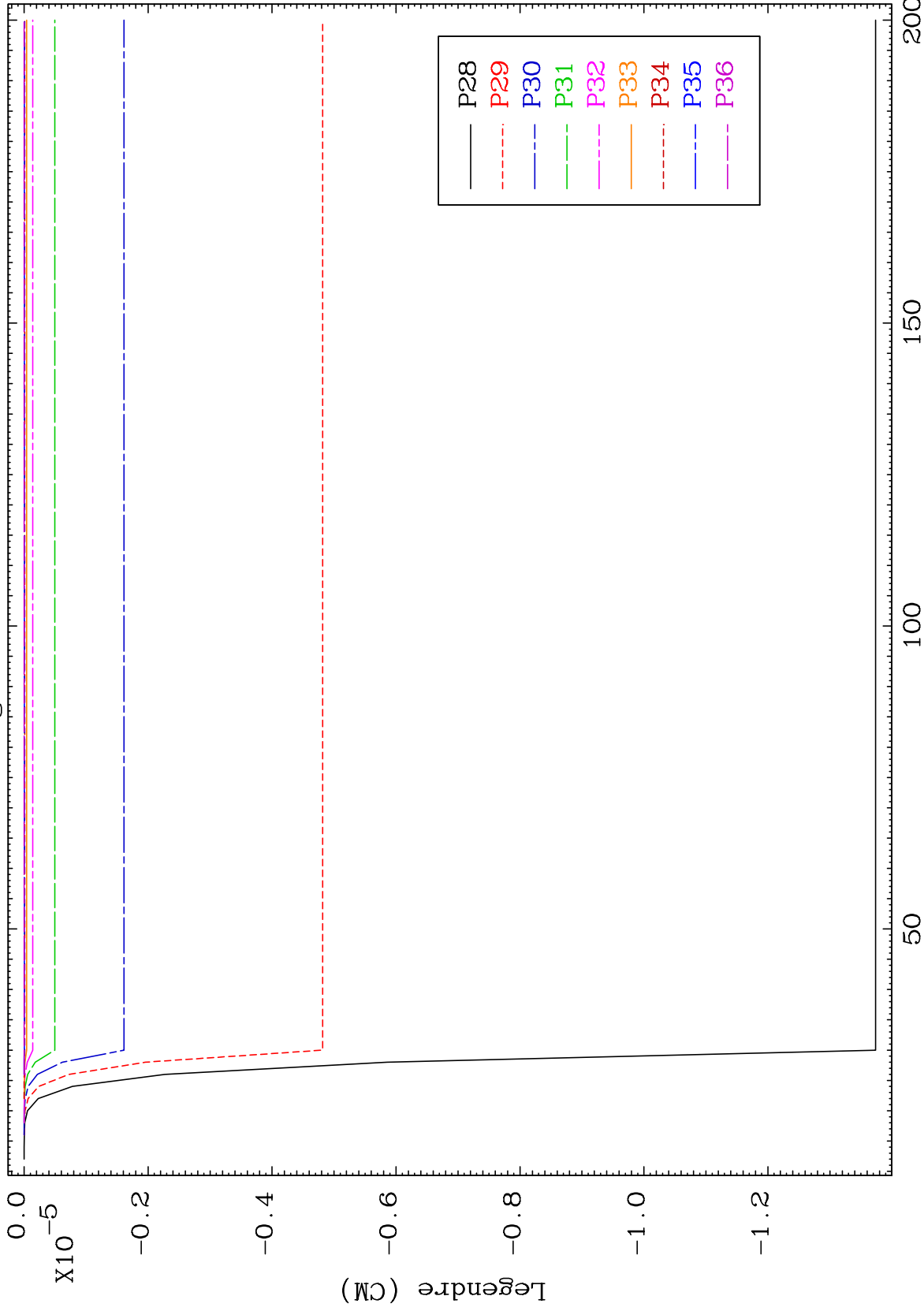
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



57-La-145

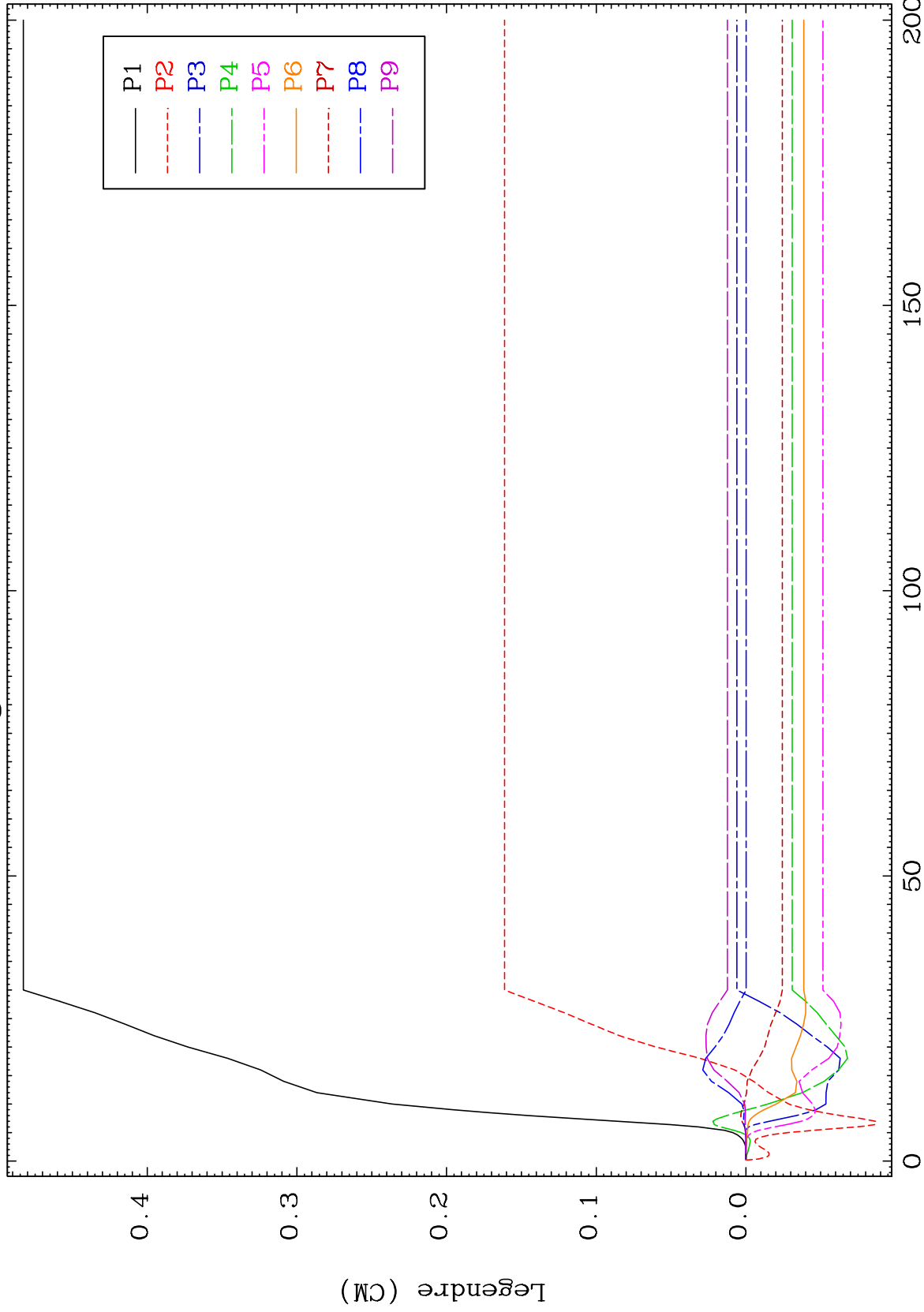
Incident Energy (MeV)

27

MAT 5746

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

57-La-145



28

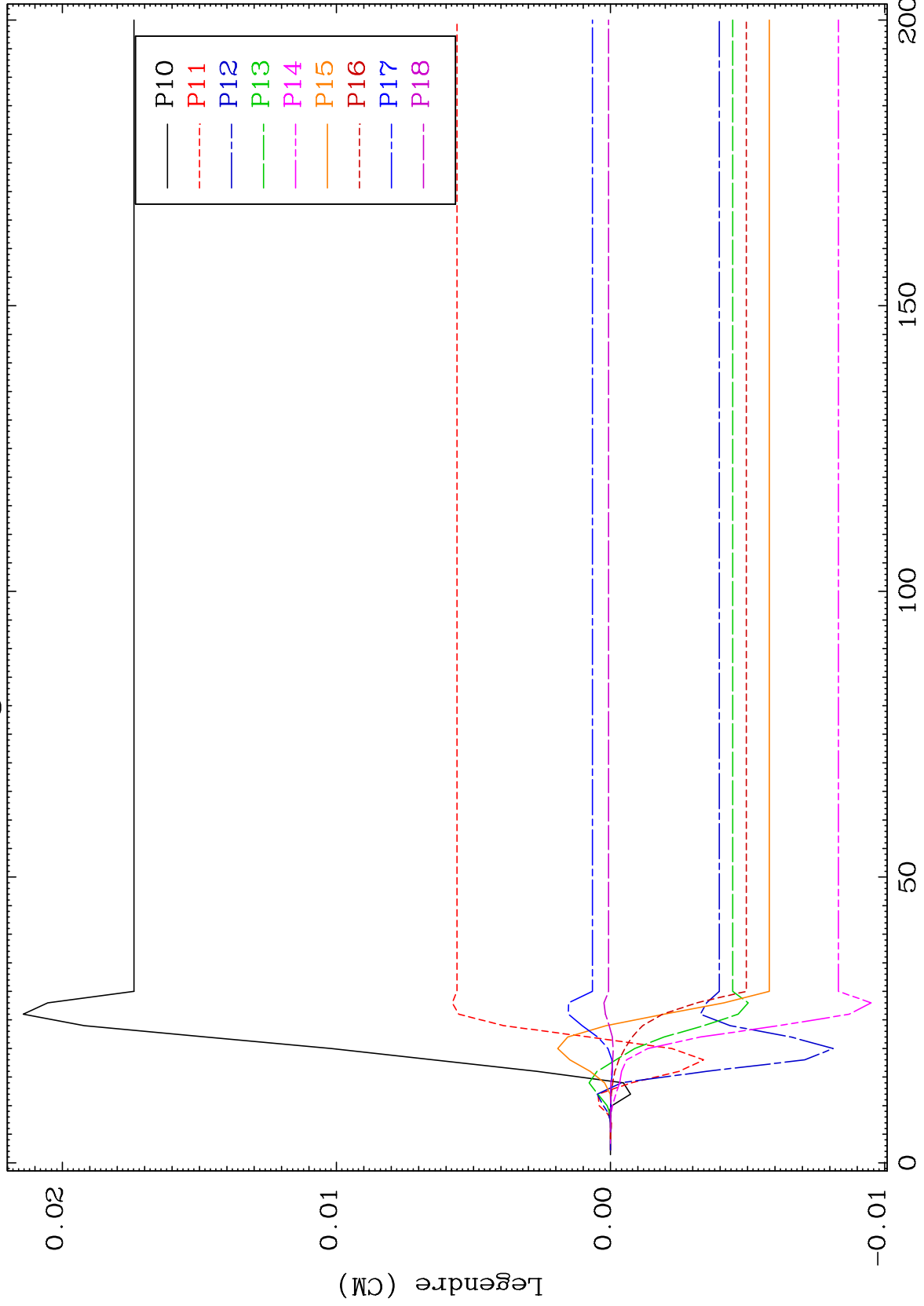
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



29

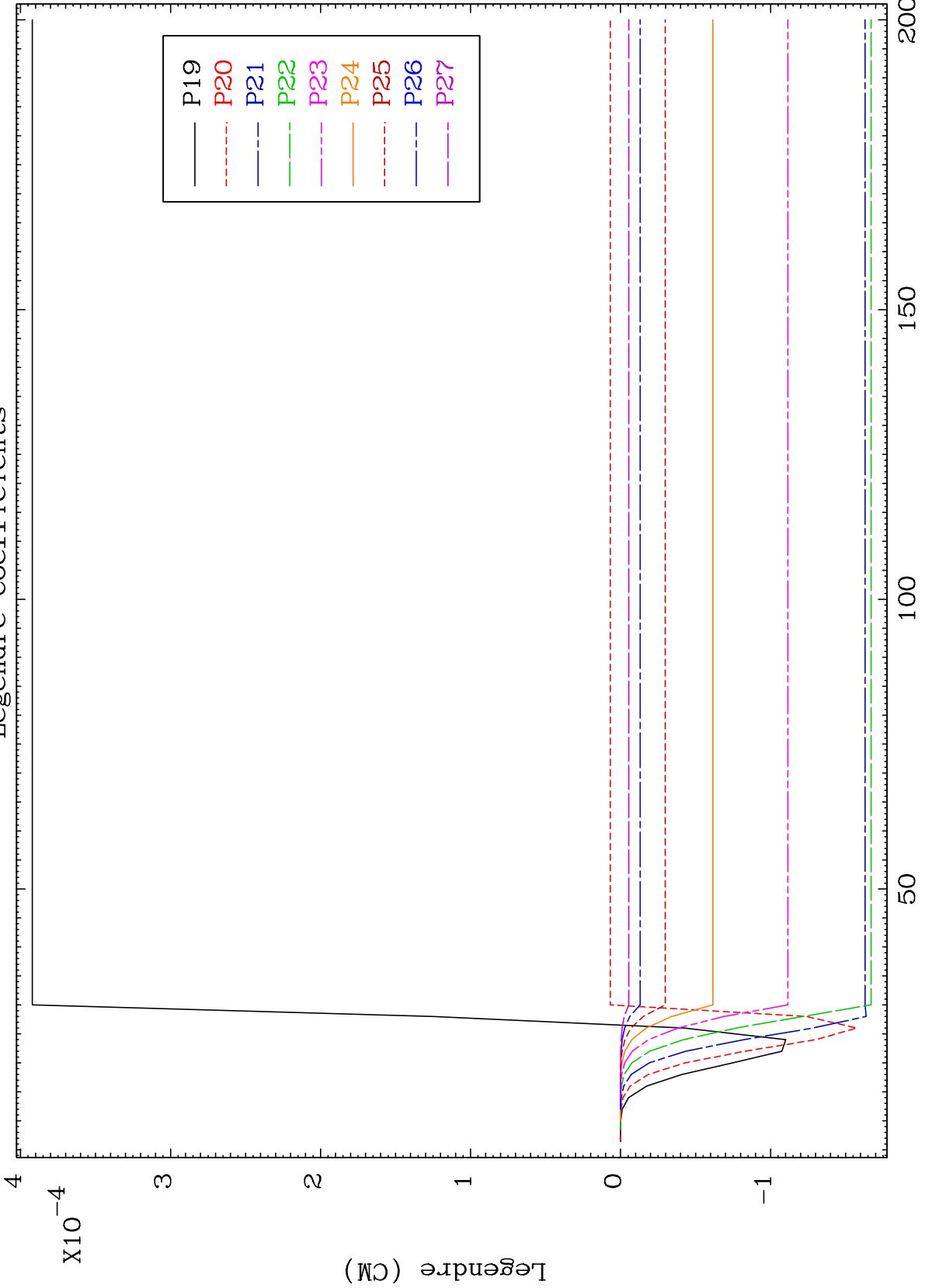
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



30

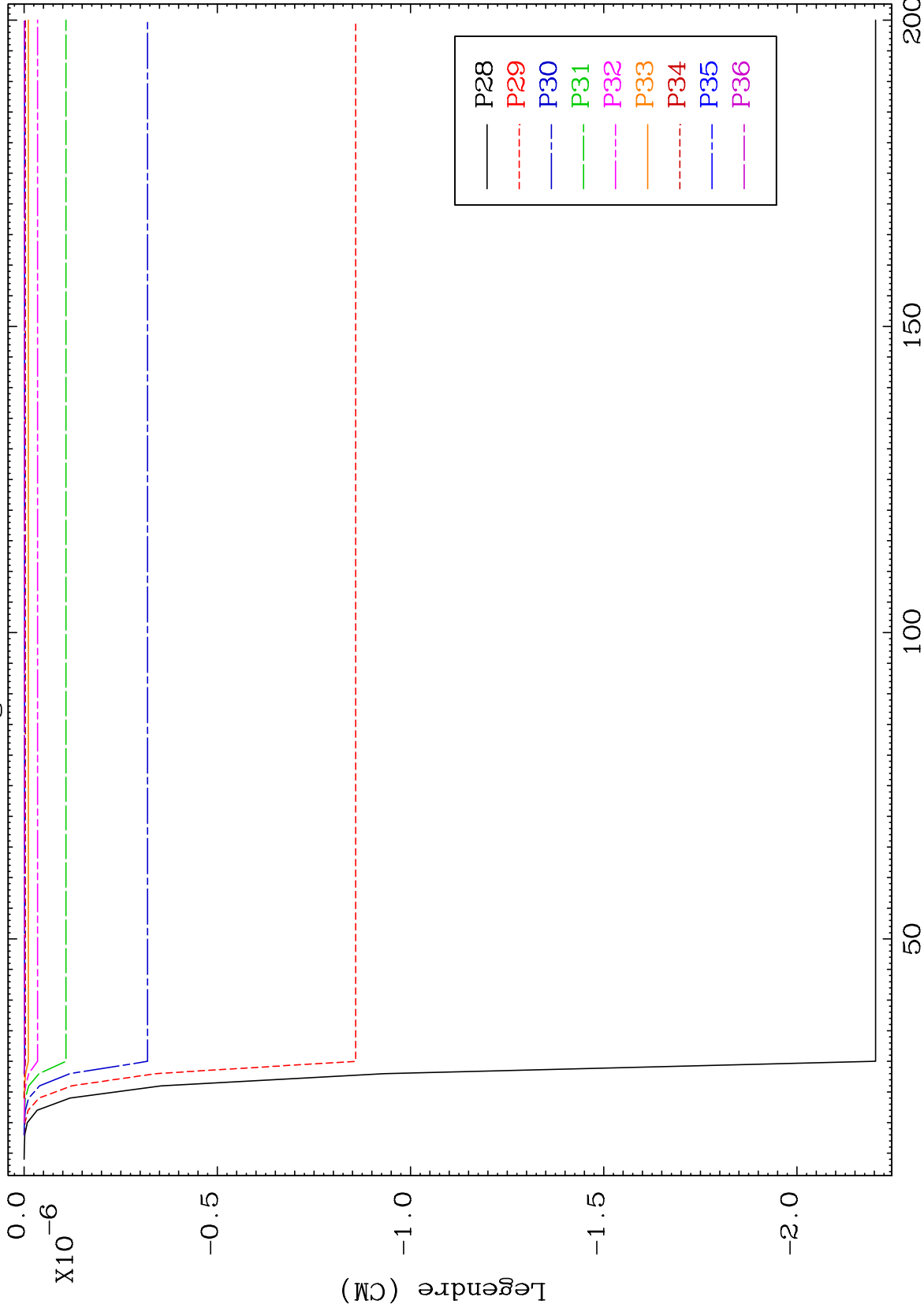
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



31

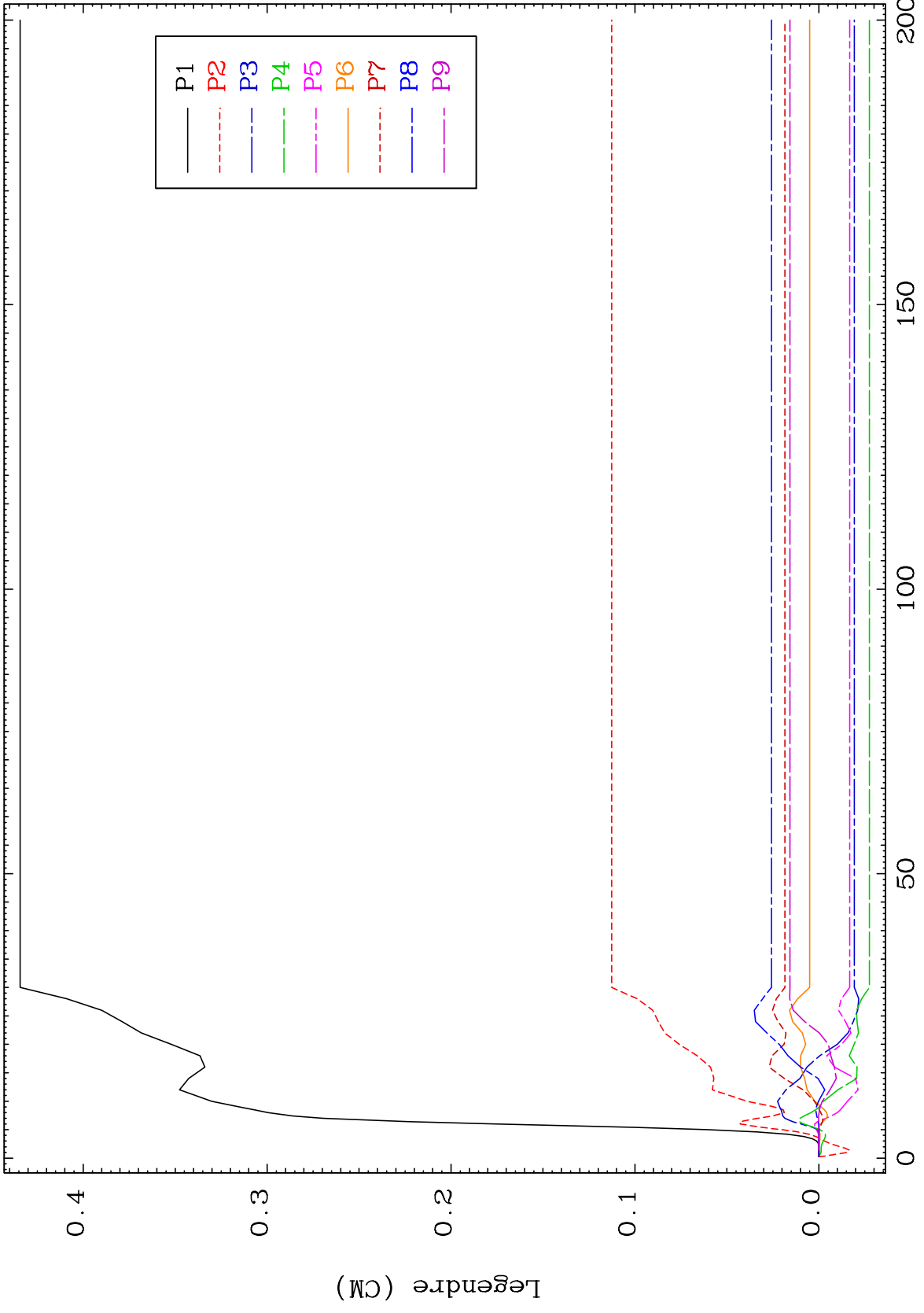
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



32

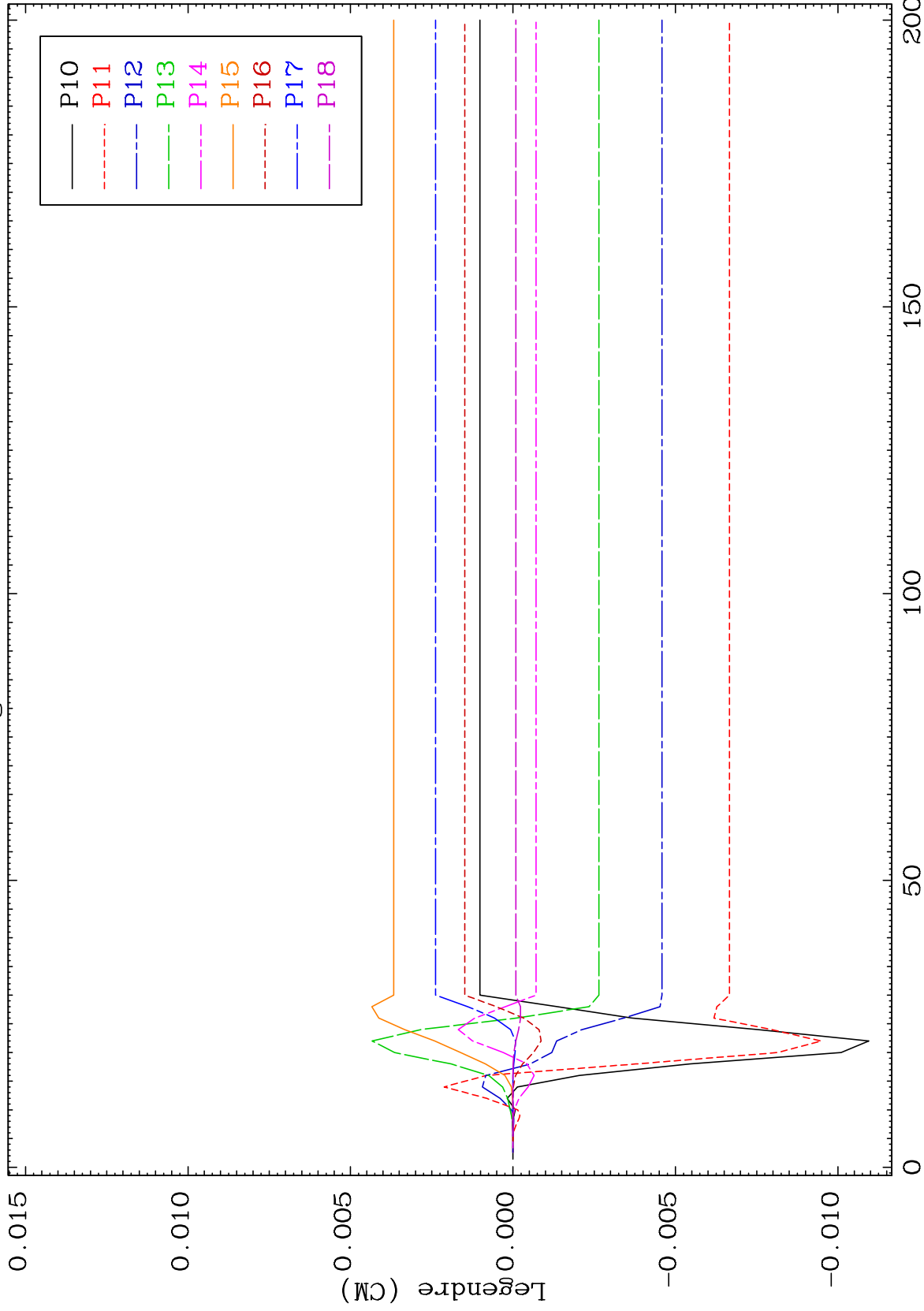
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



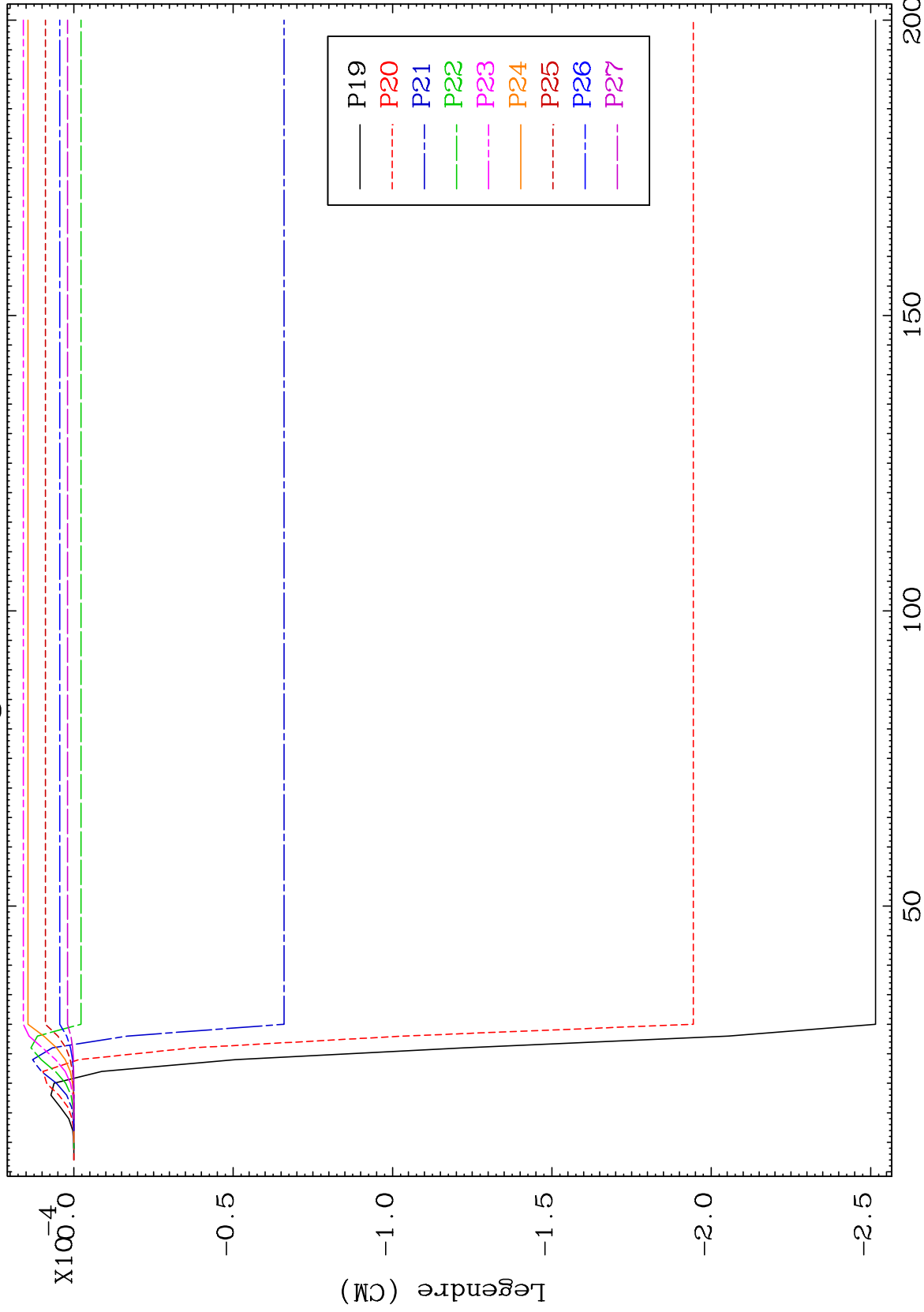
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57-La-145

MAT 5746

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

57-La-145



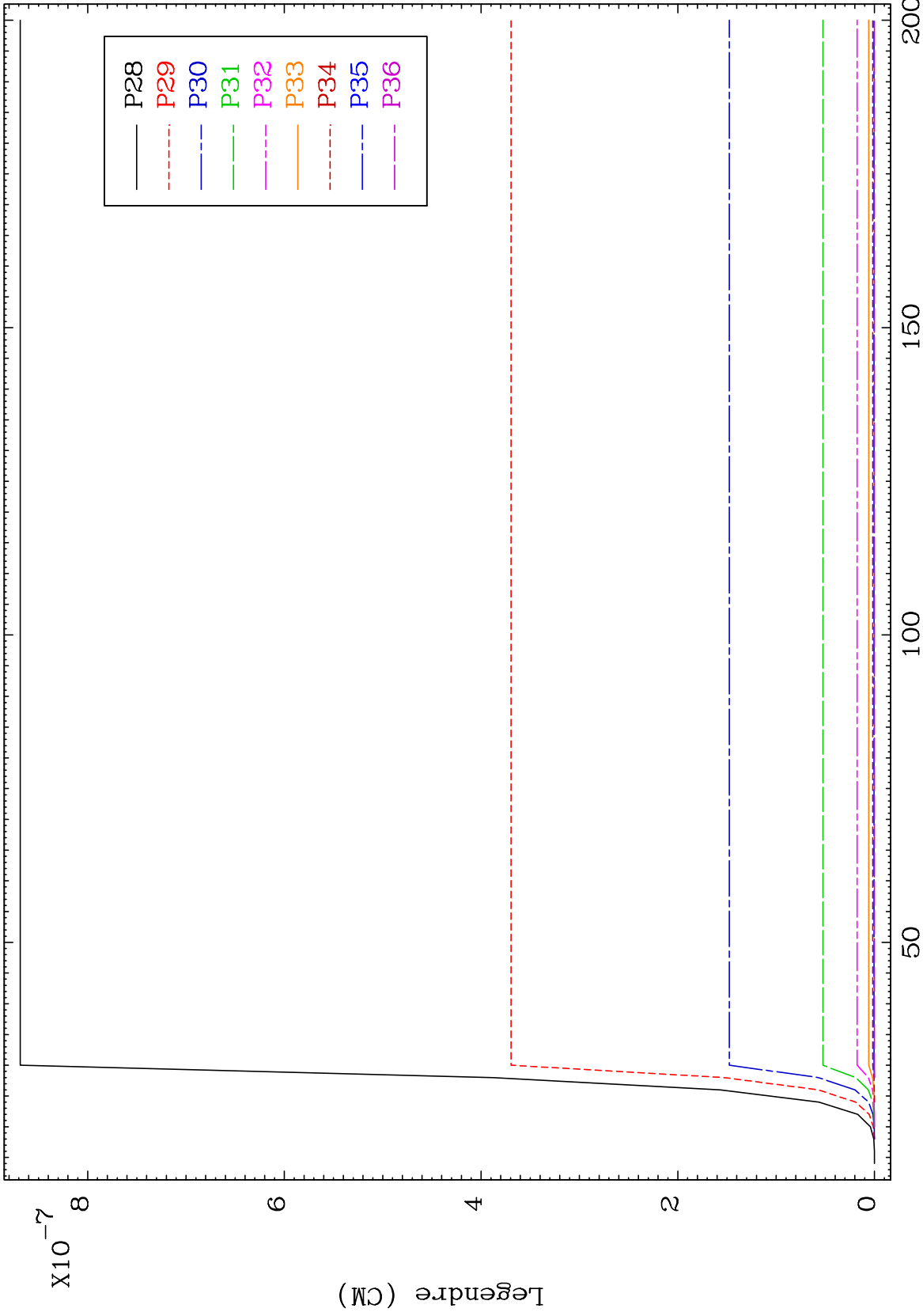
34

57-La-145

MAT 5746

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

57-La-145



35

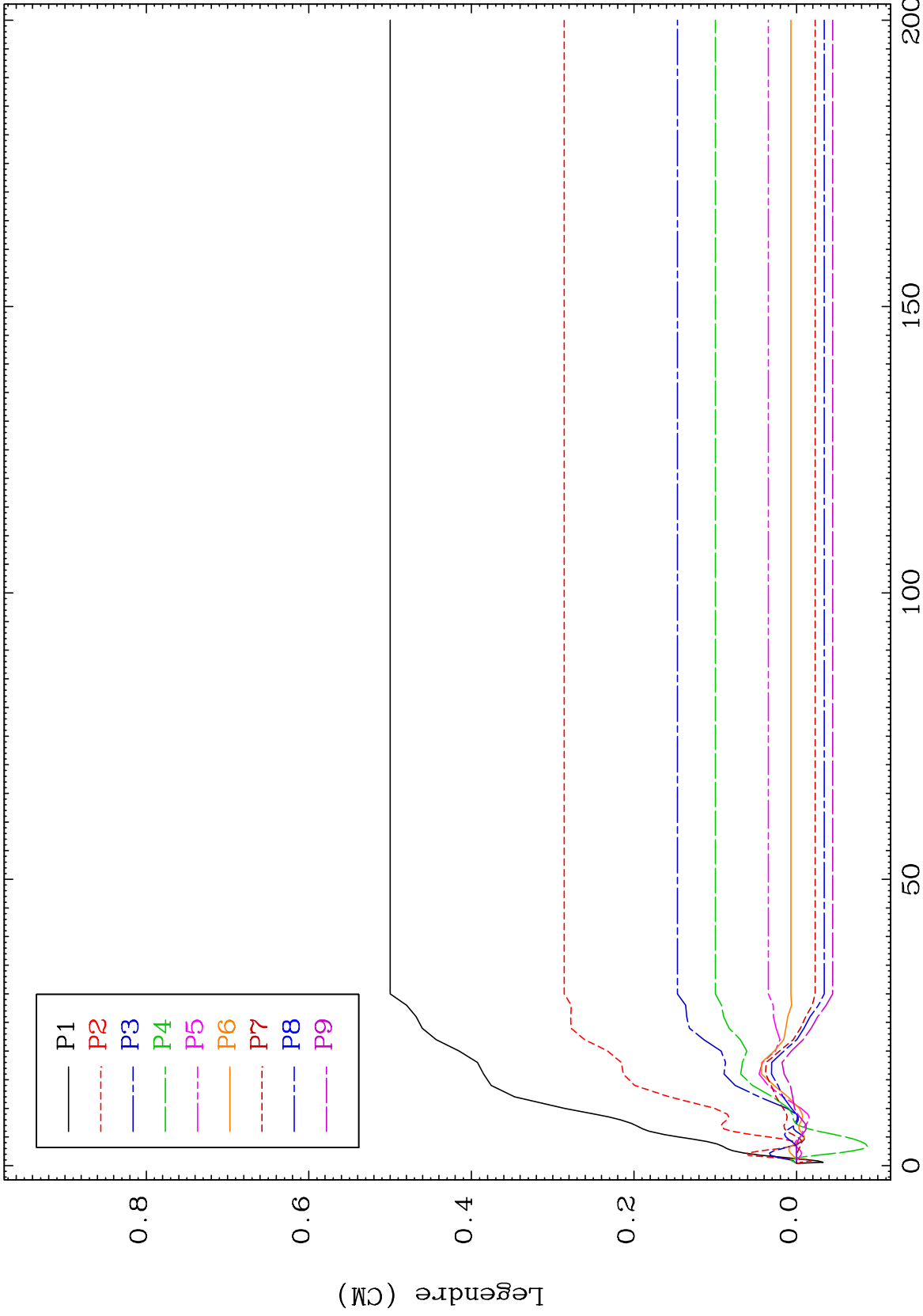
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



36

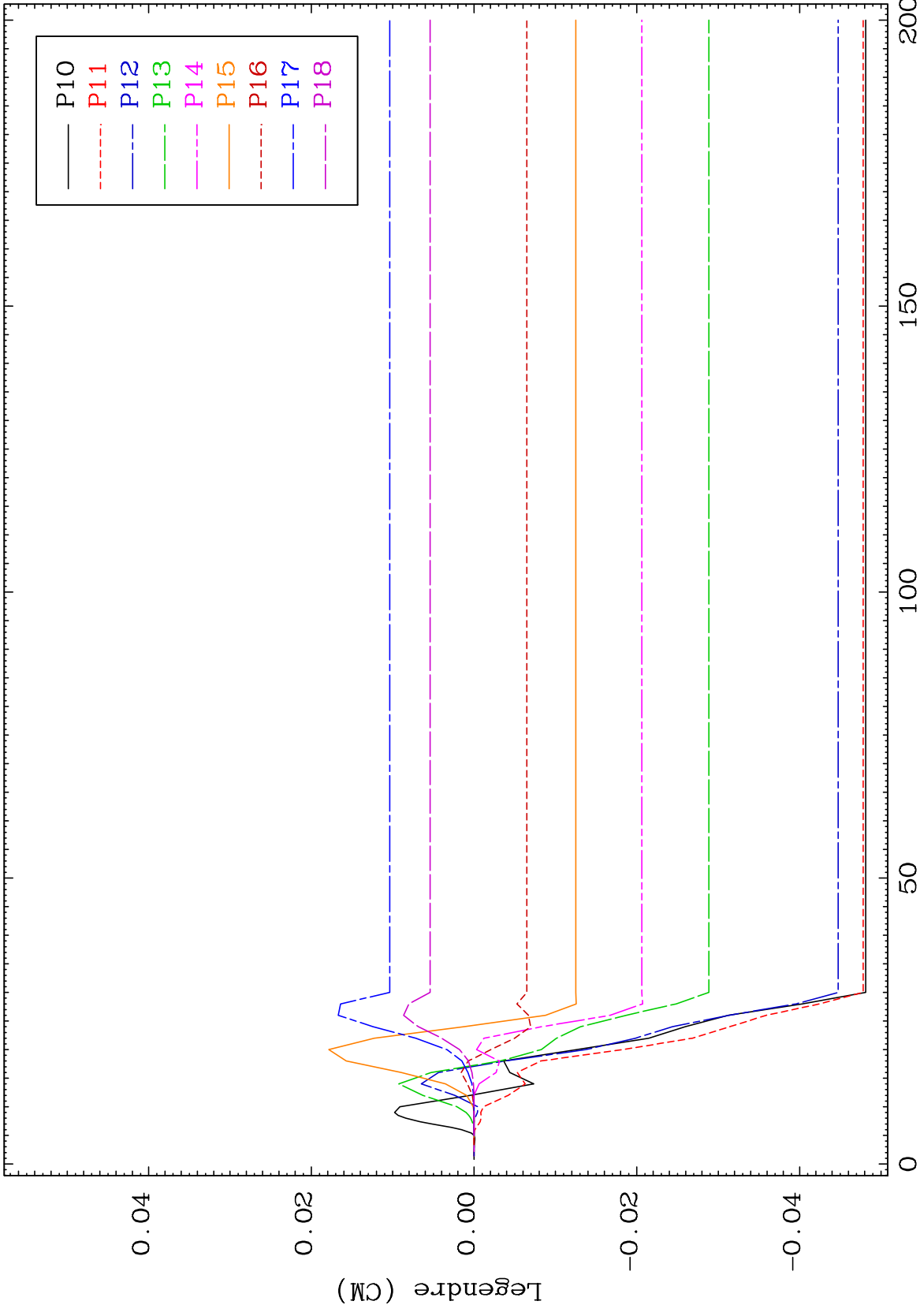
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



37

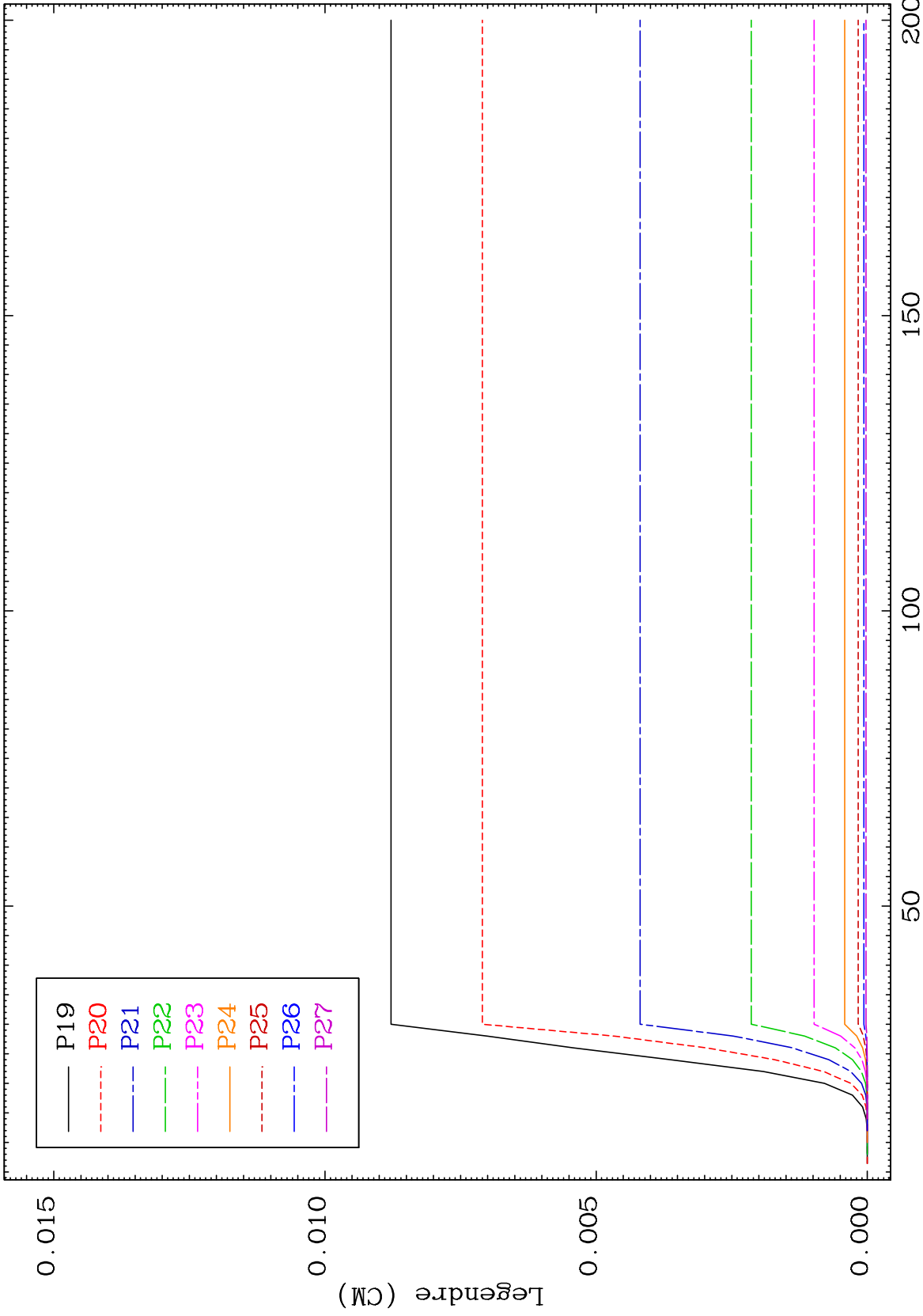
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



38

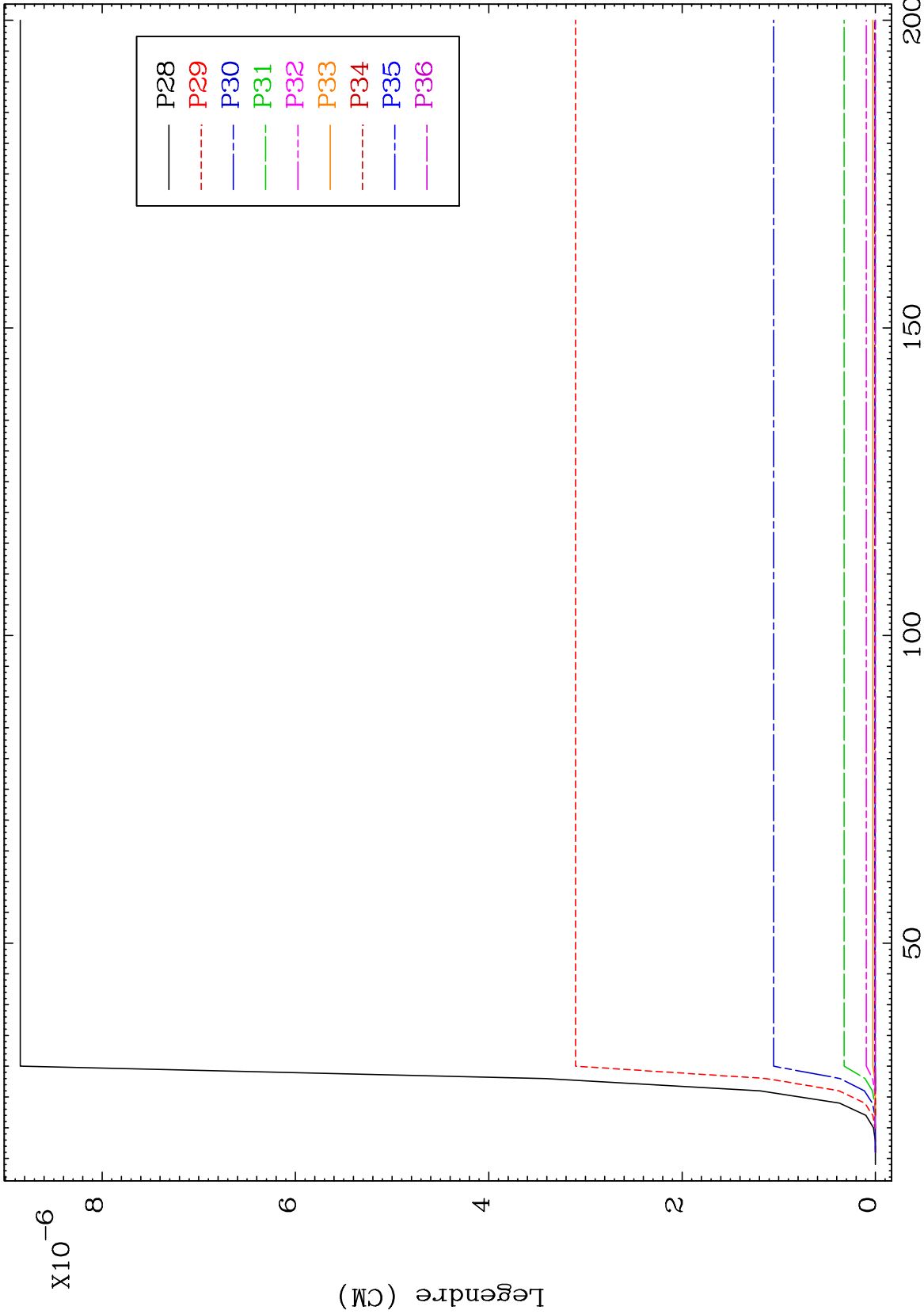
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



39

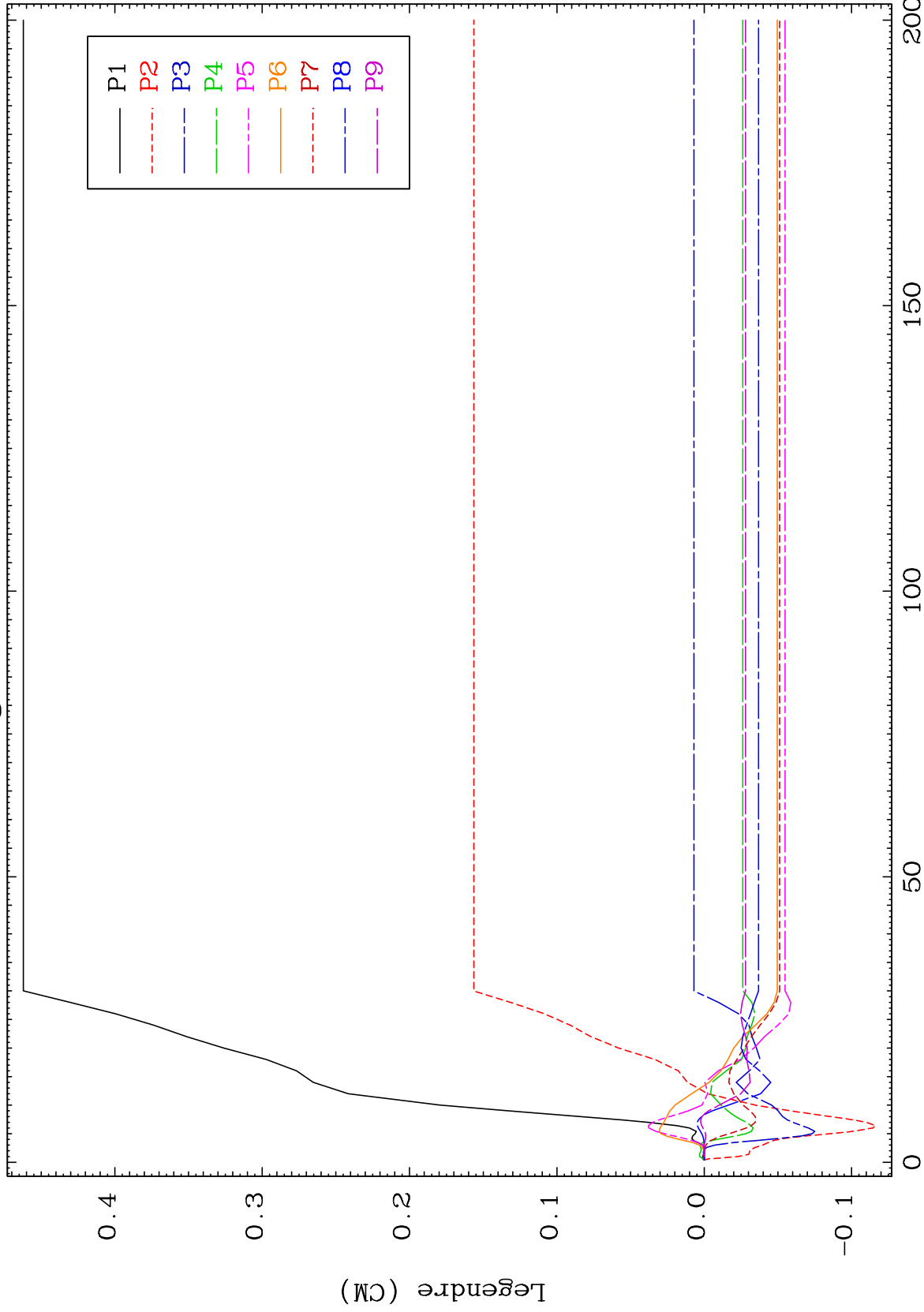
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



57-La-145

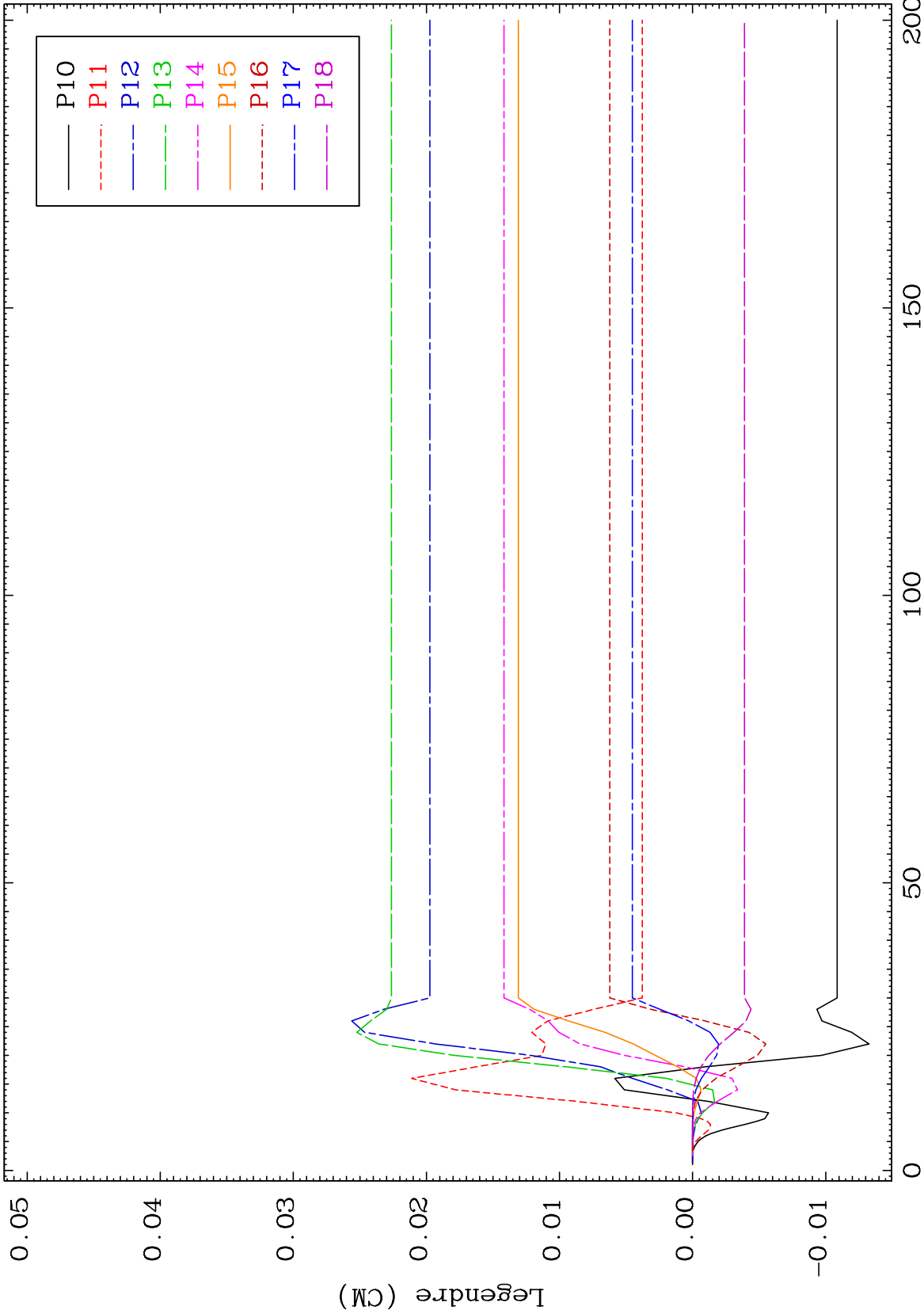
Incident Energy (MeV)

40

MAT 5746

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

57-La-145



41

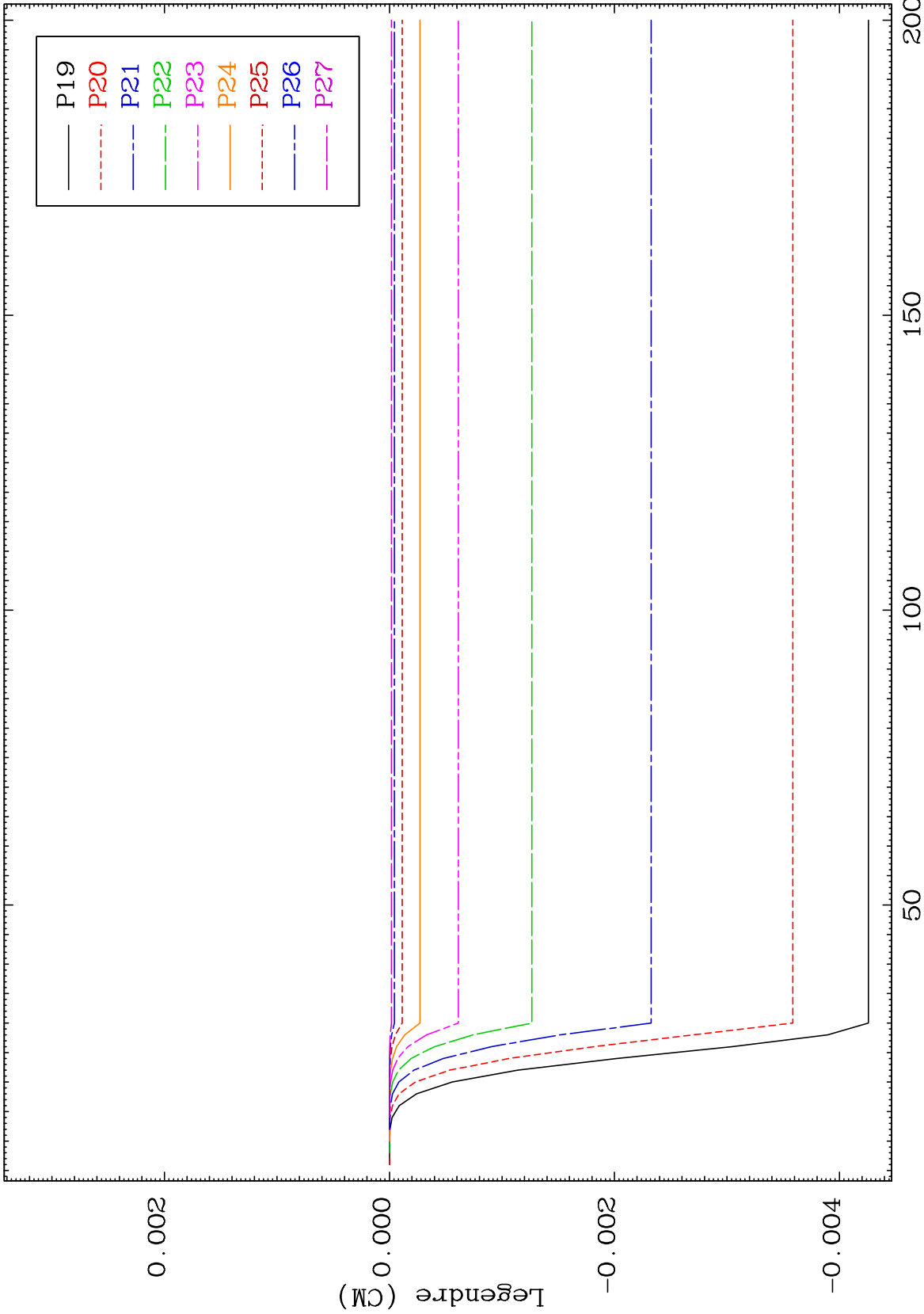
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



42

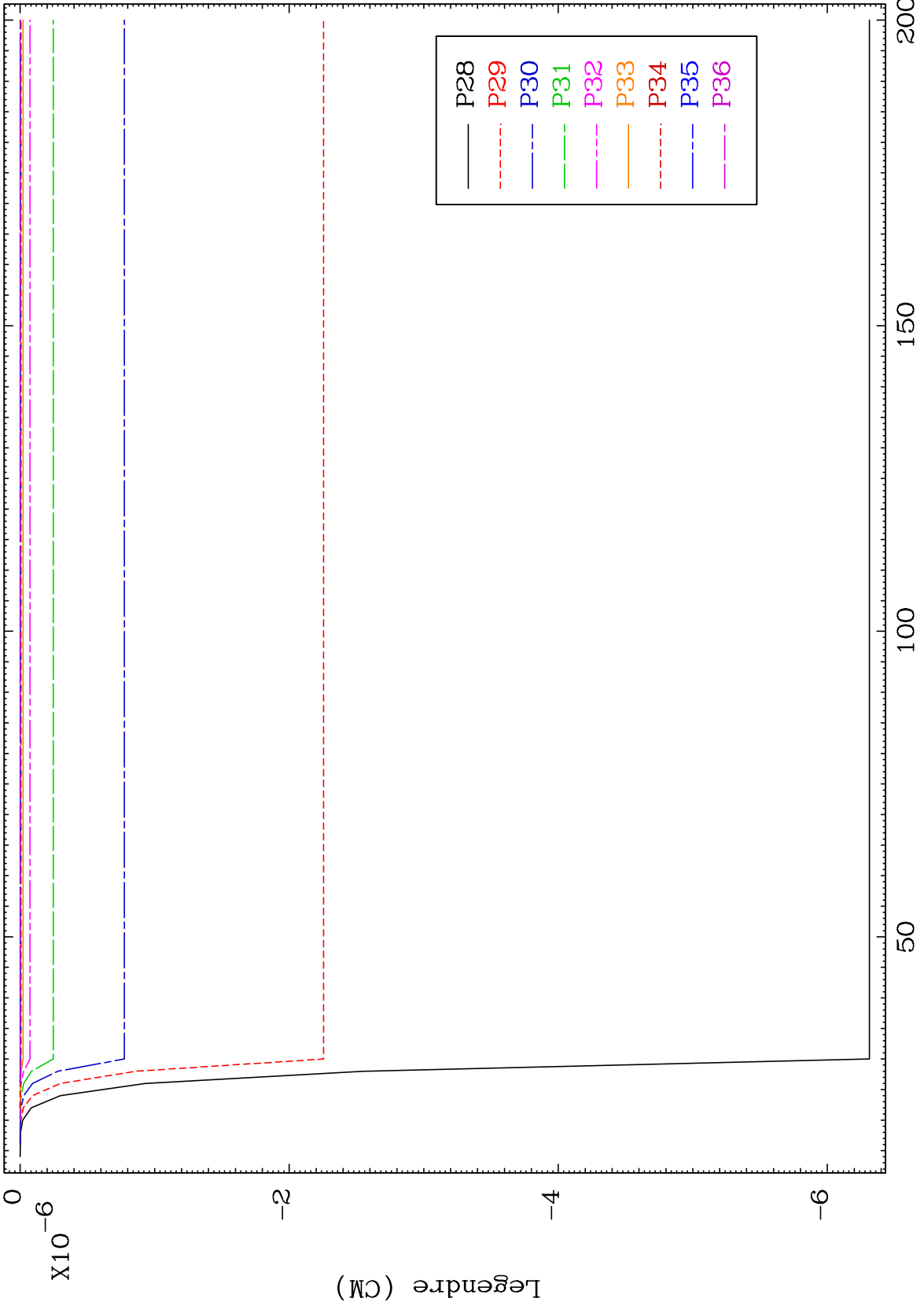
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



57-La-145

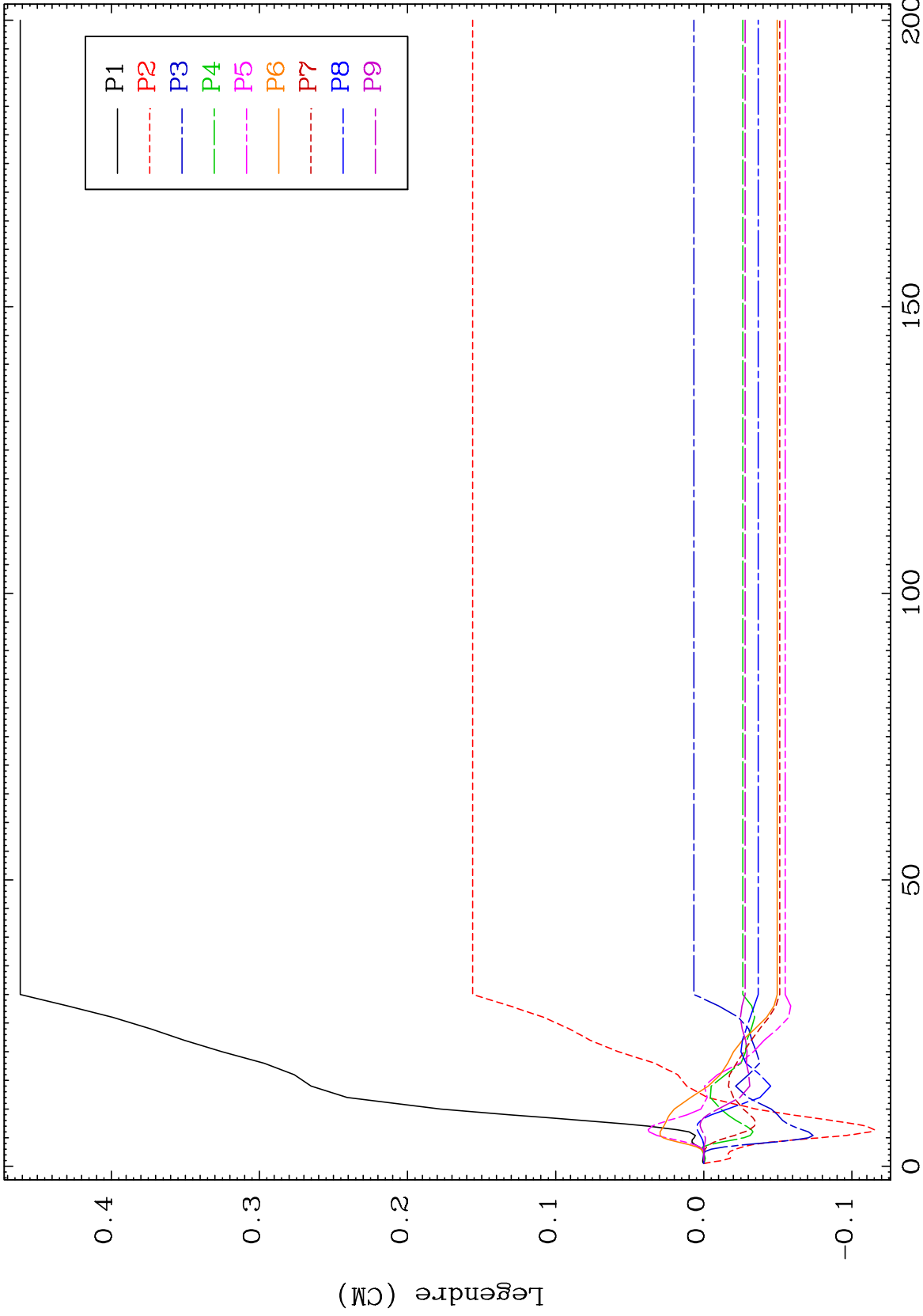
Incident Energy (MeV)

43

MAT 5746

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

57-La-145



44

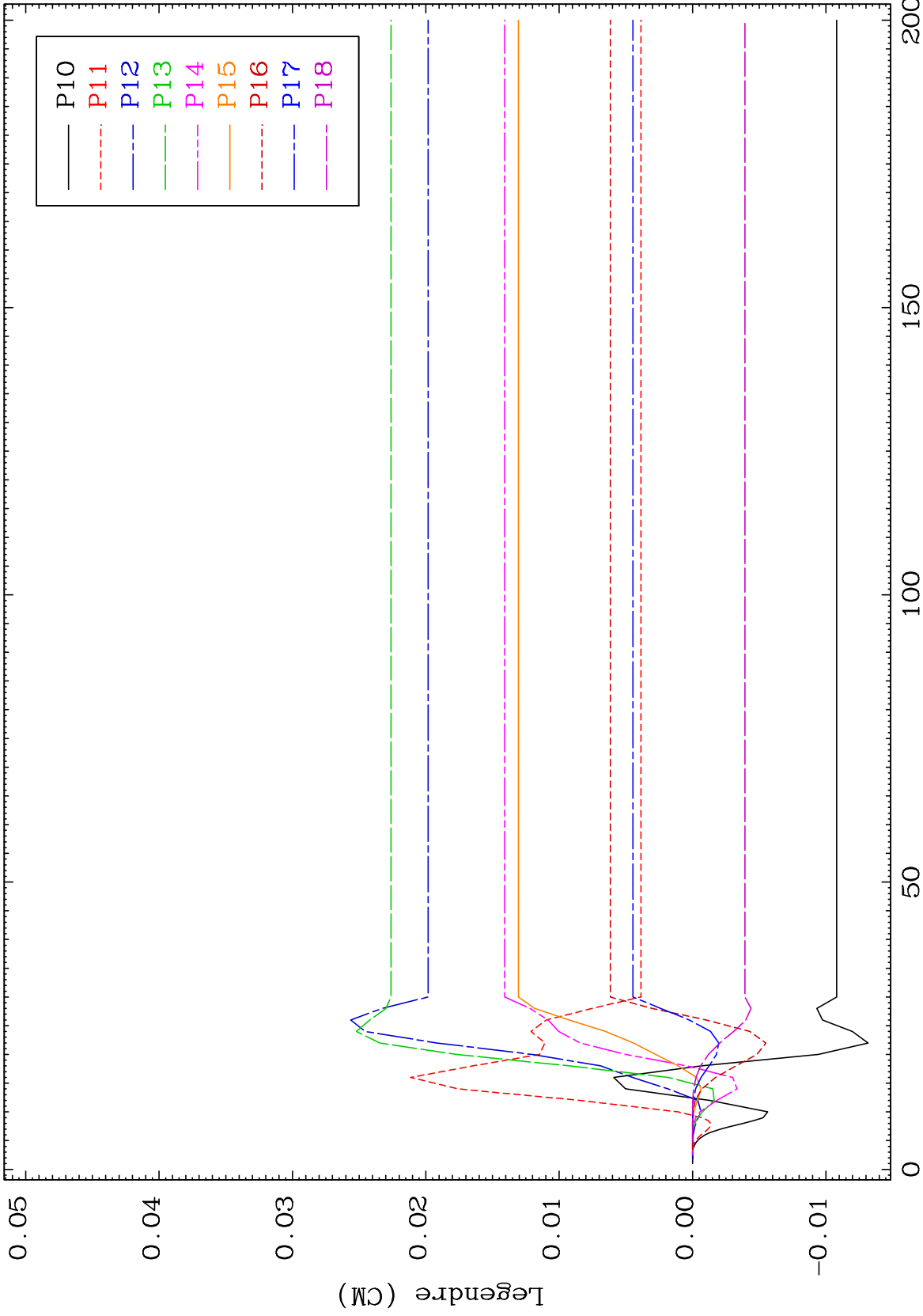
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



45

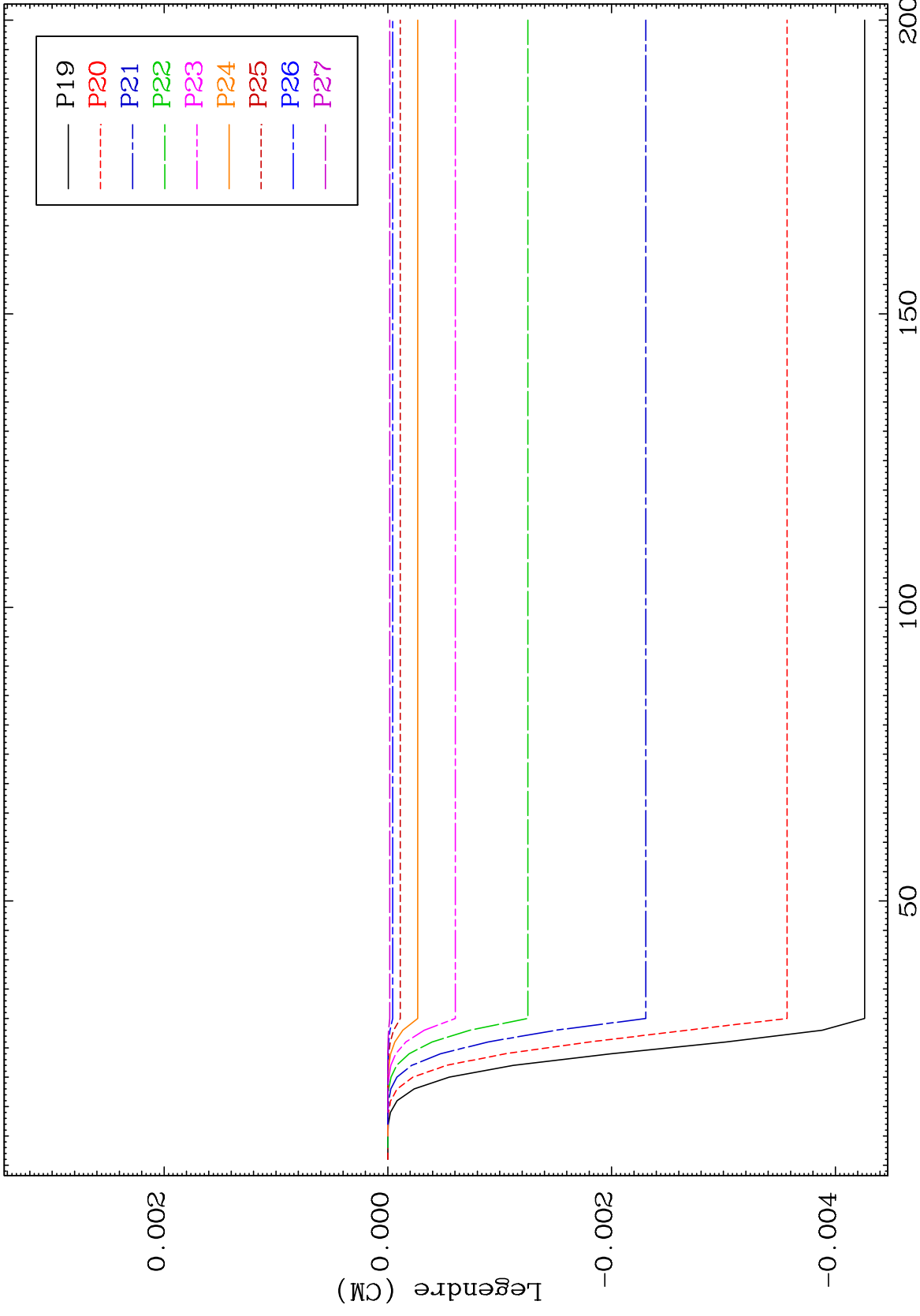
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



46

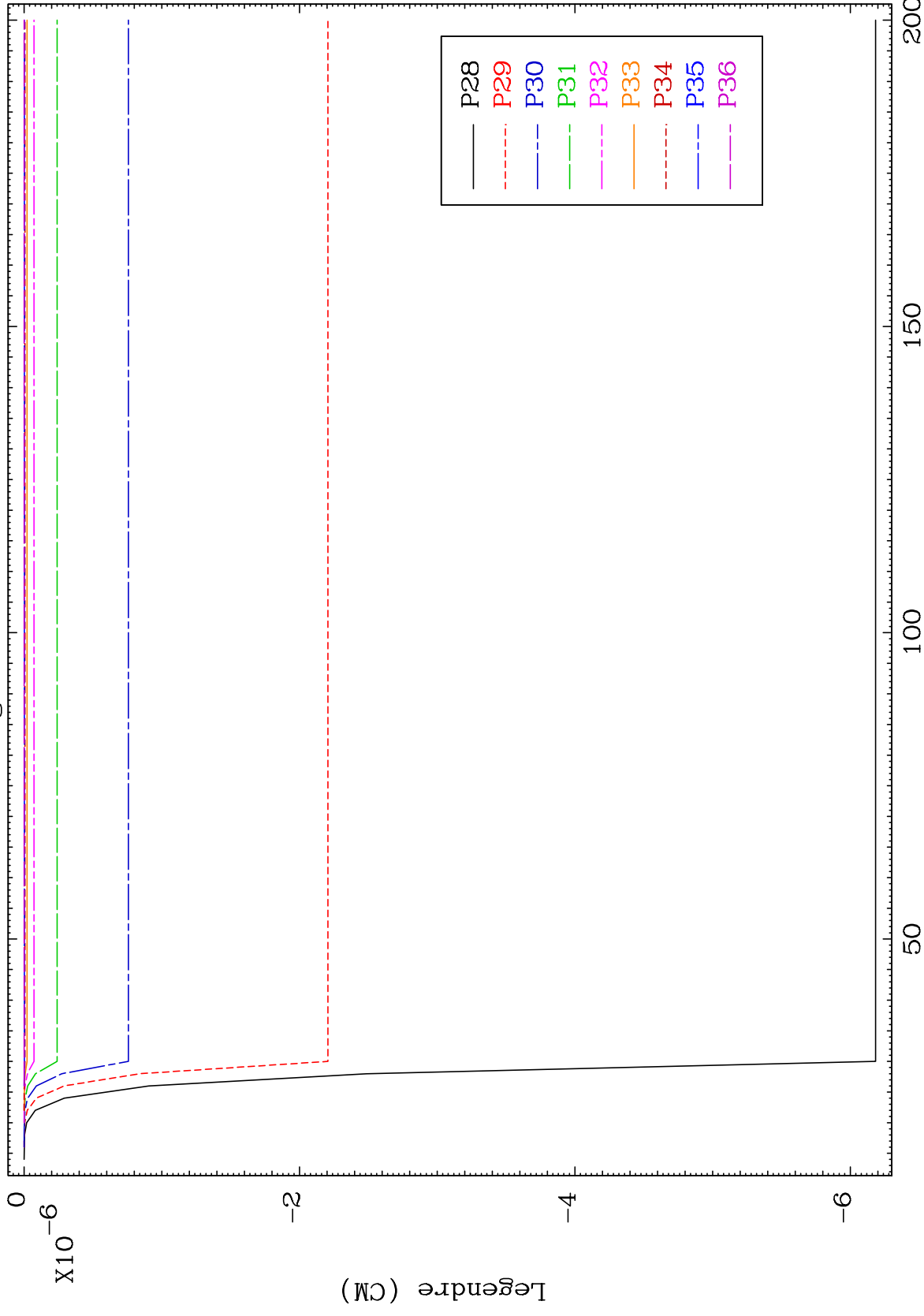
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



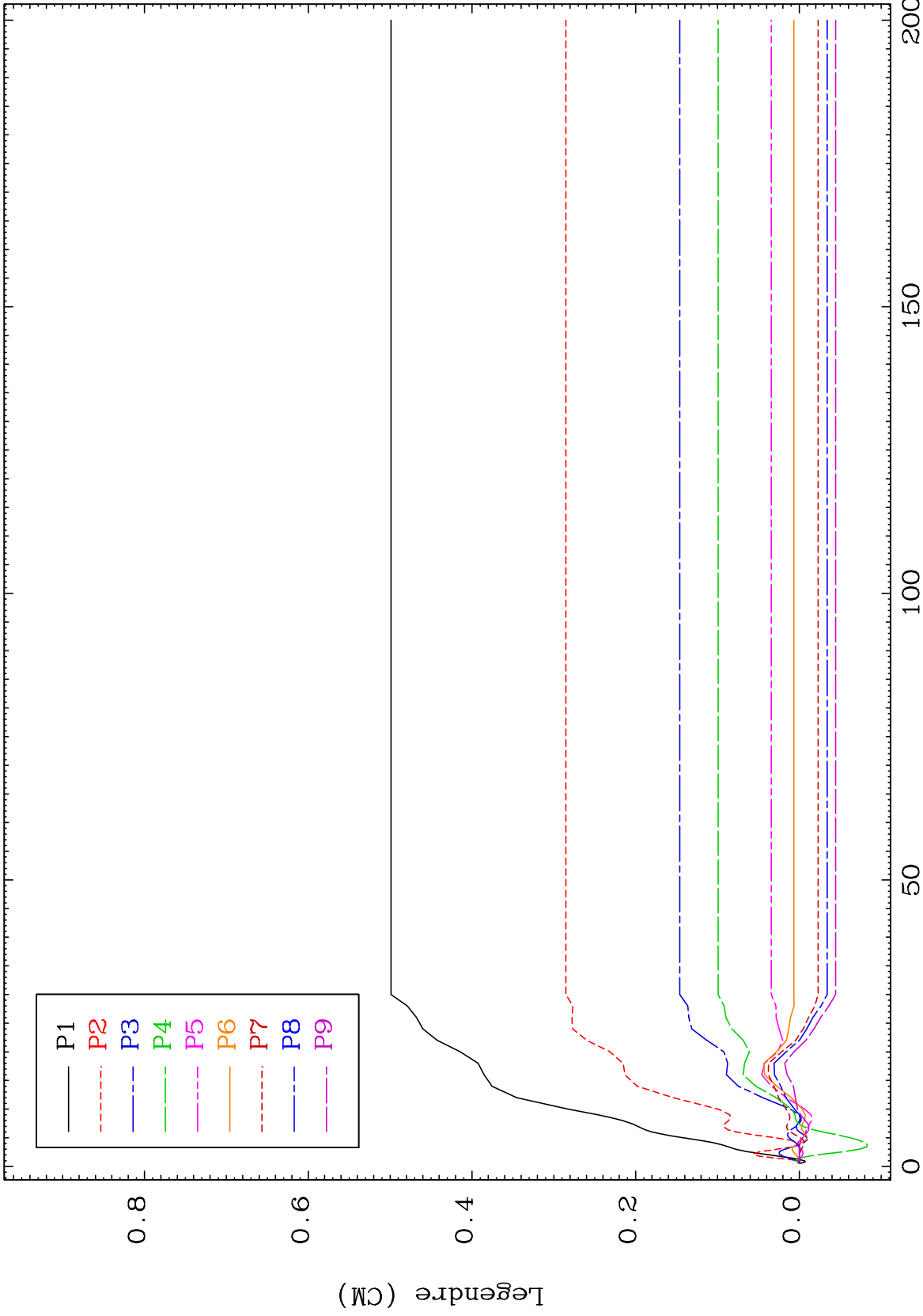
57-La-145

47

MAT 5746

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

57-La-145



48

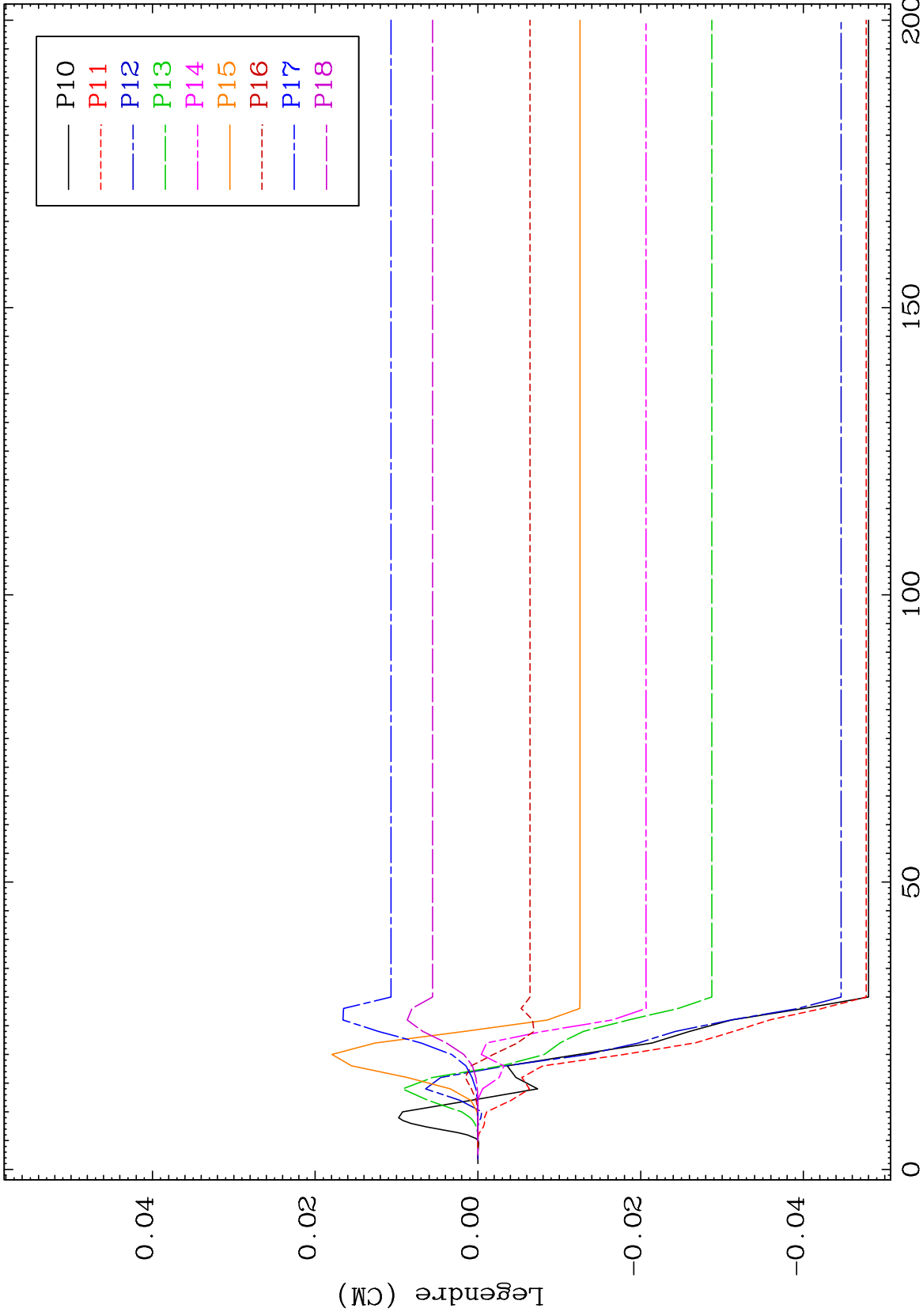
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



49

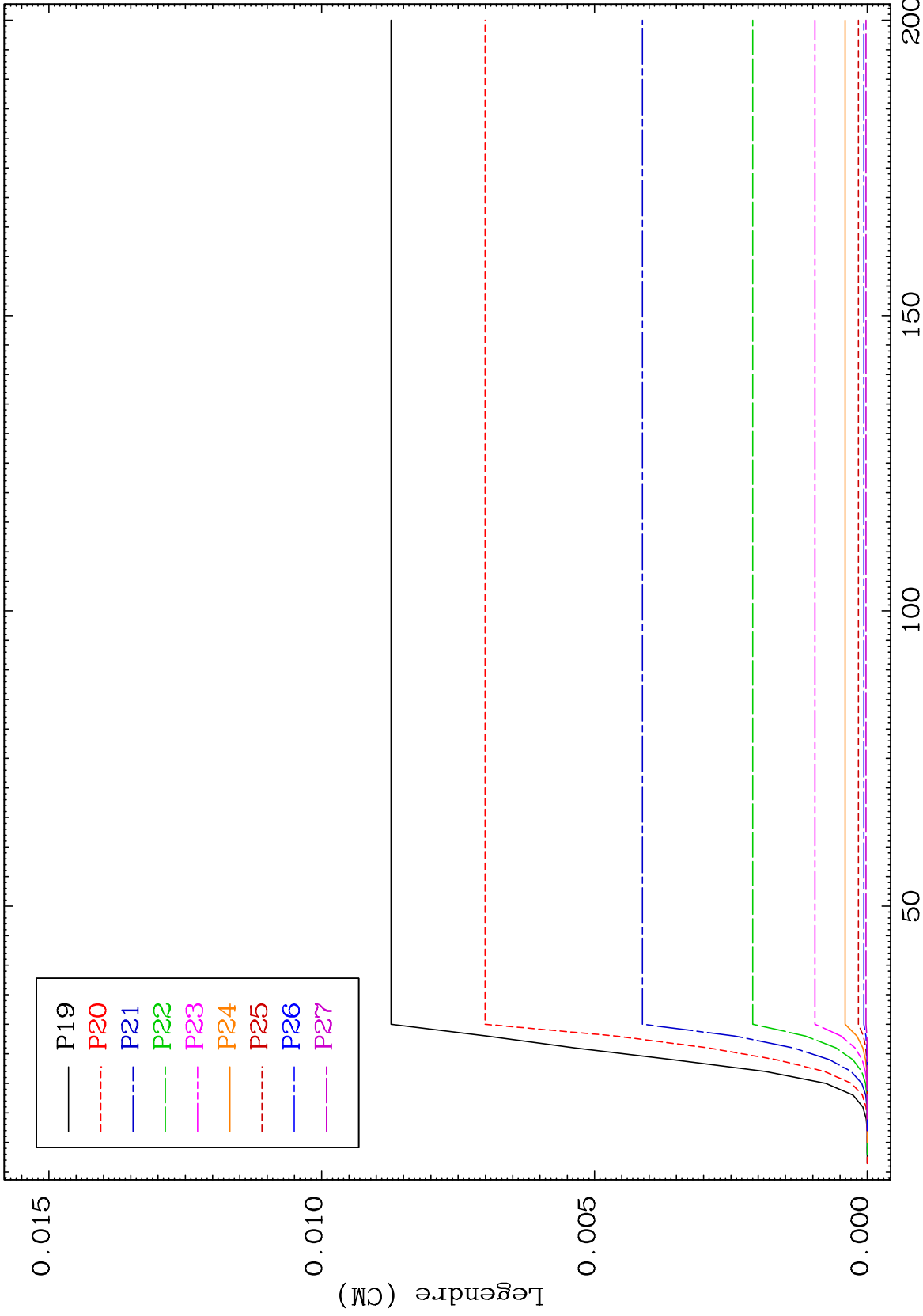
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



50

50

100

150

200

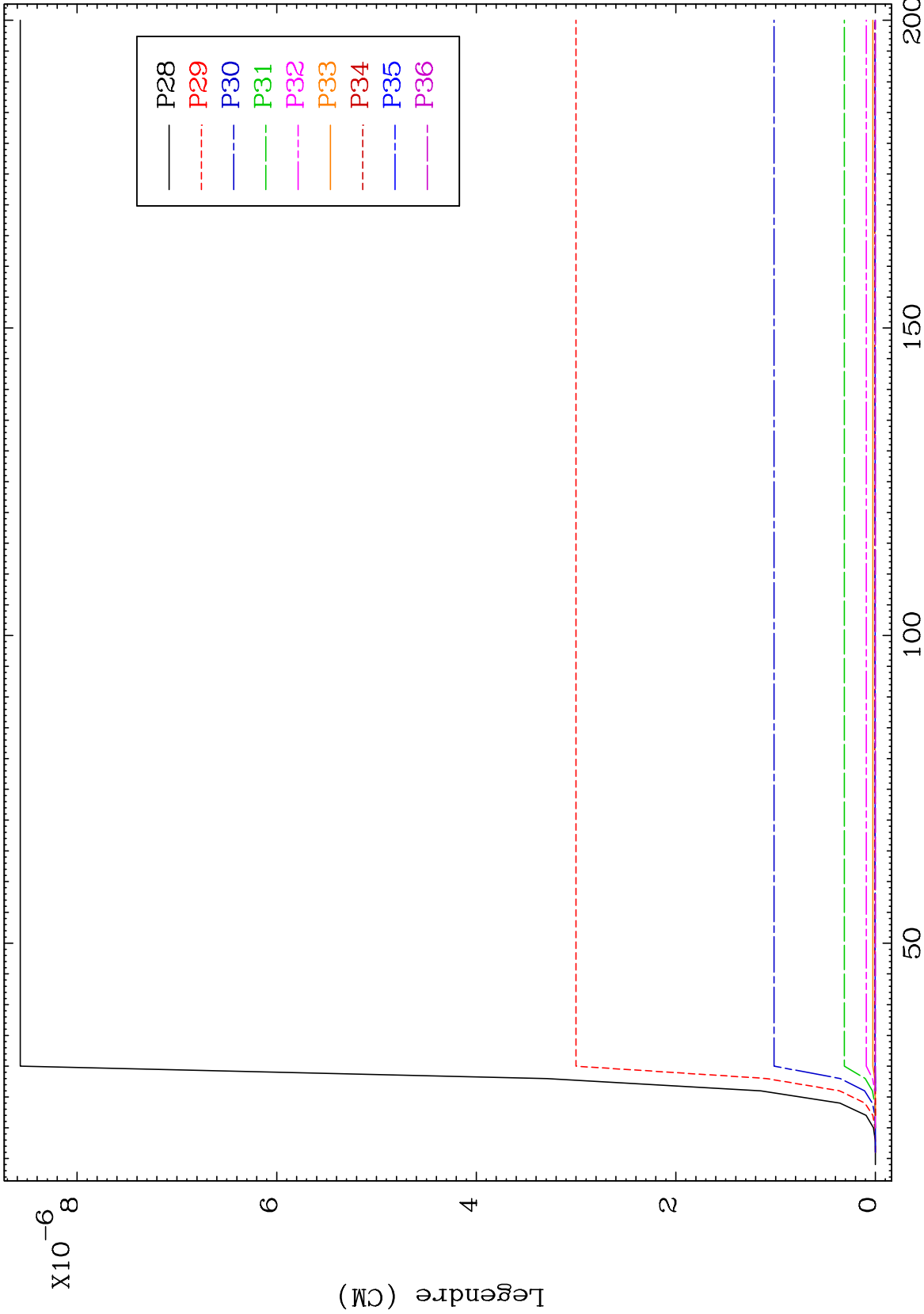
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



51

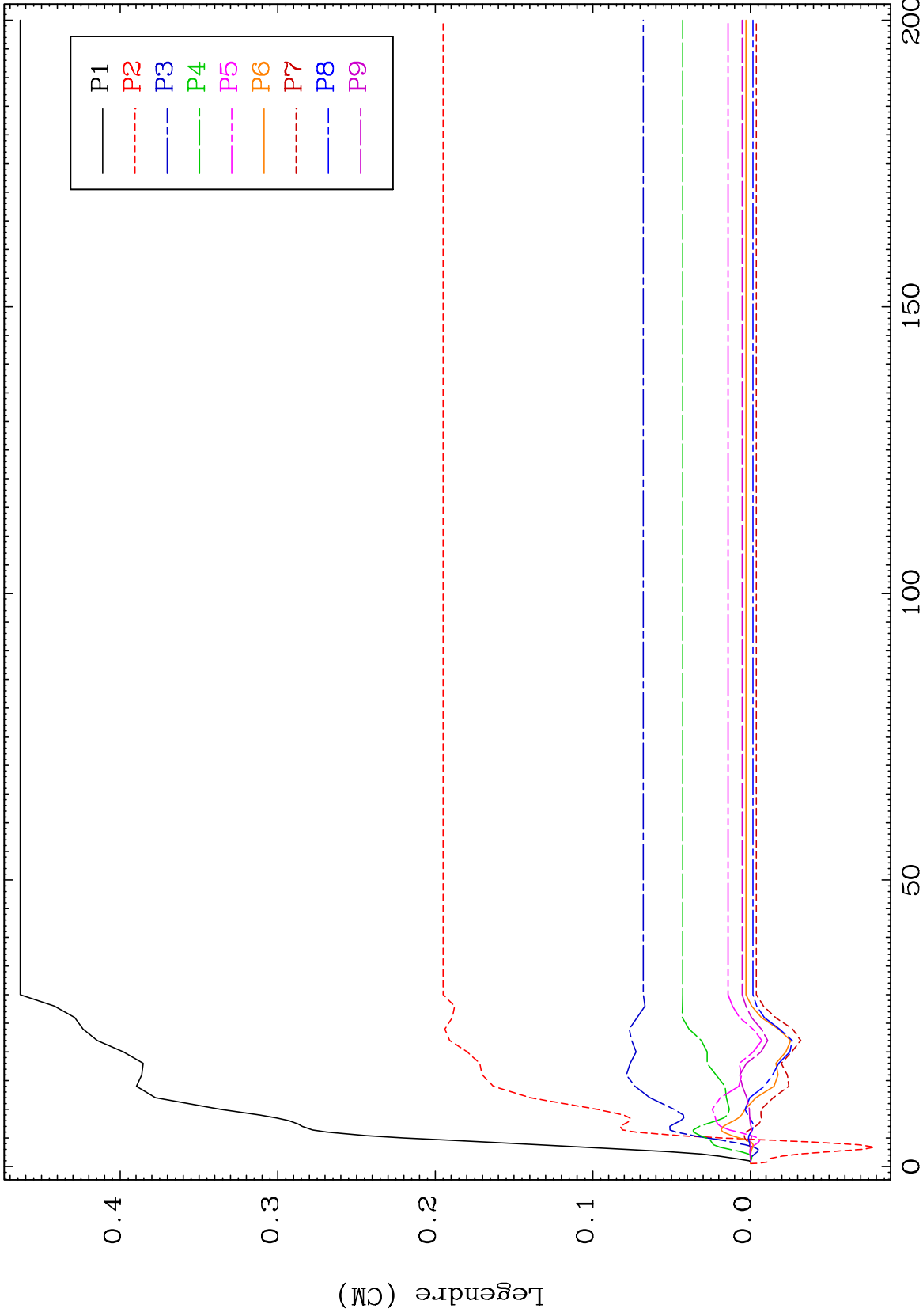
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



52

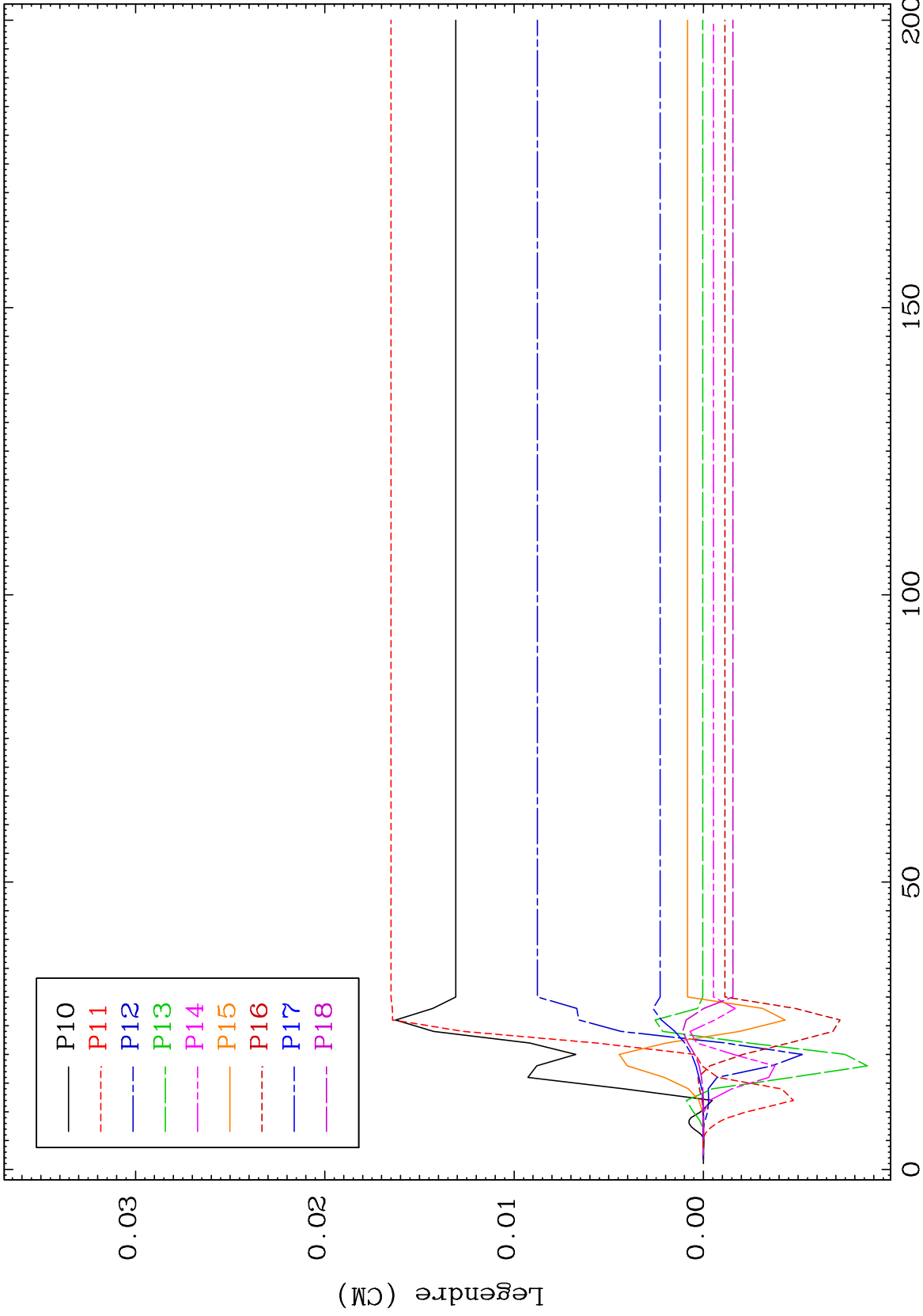
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



53

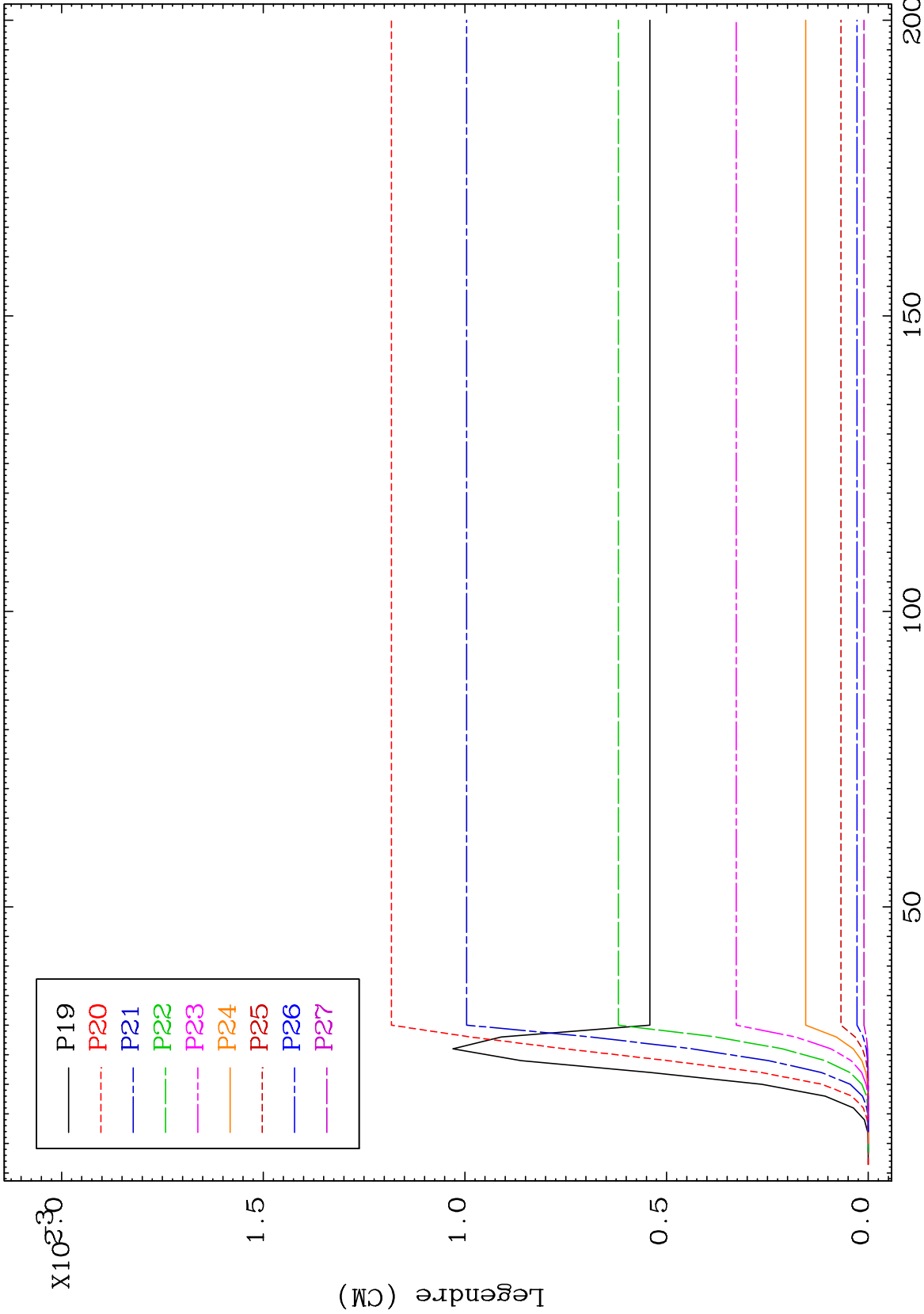
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



54

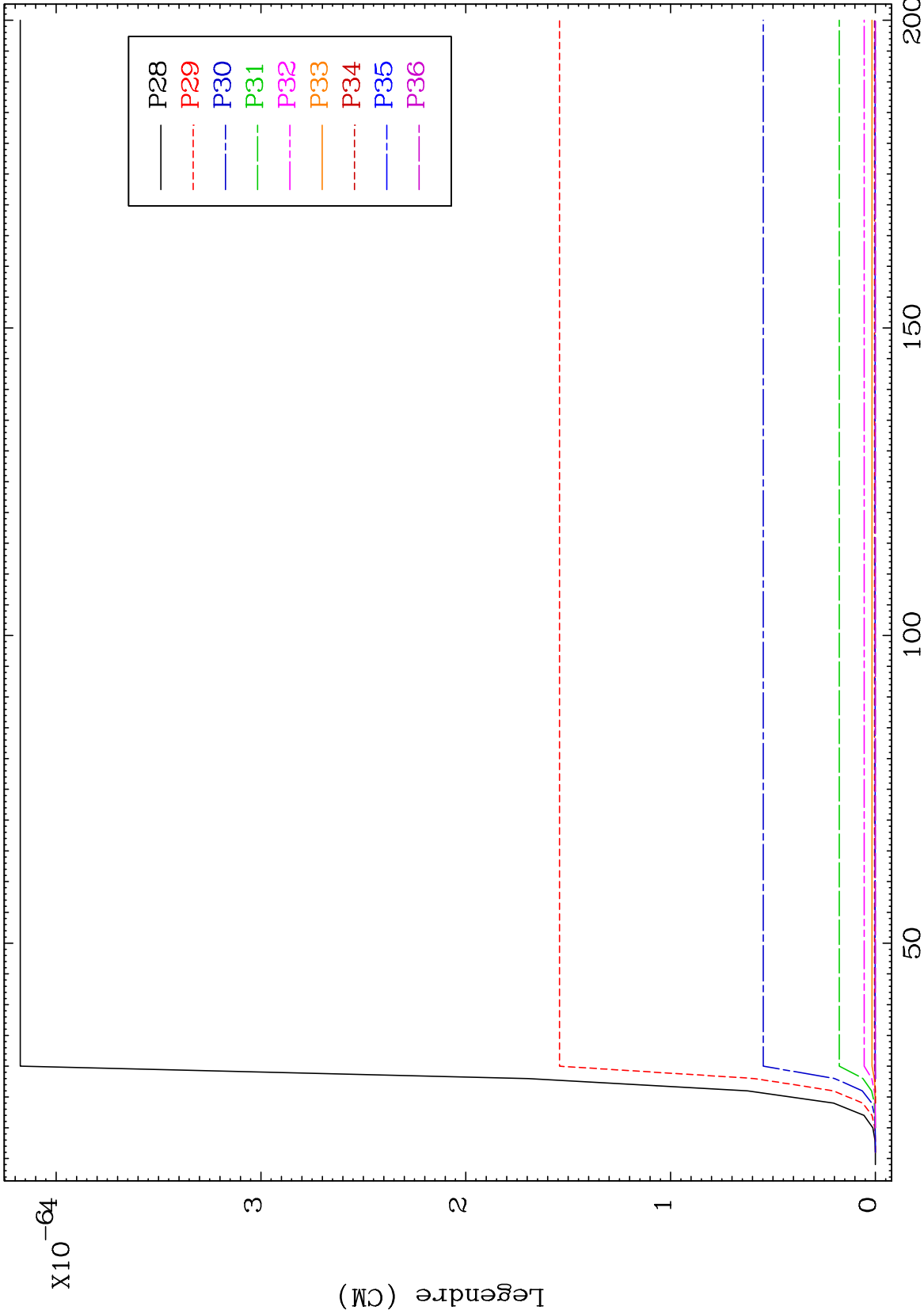
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



55

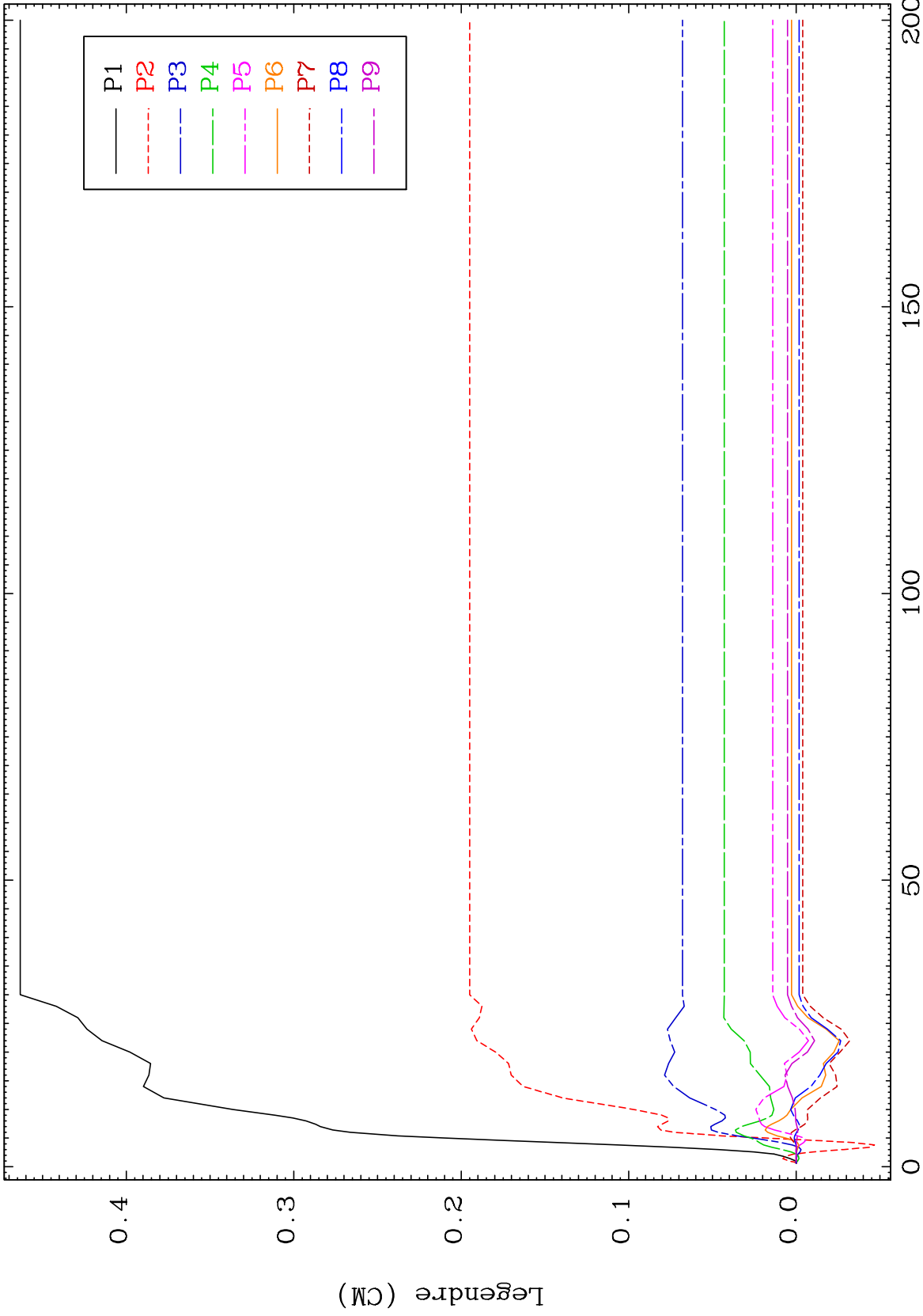
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



56

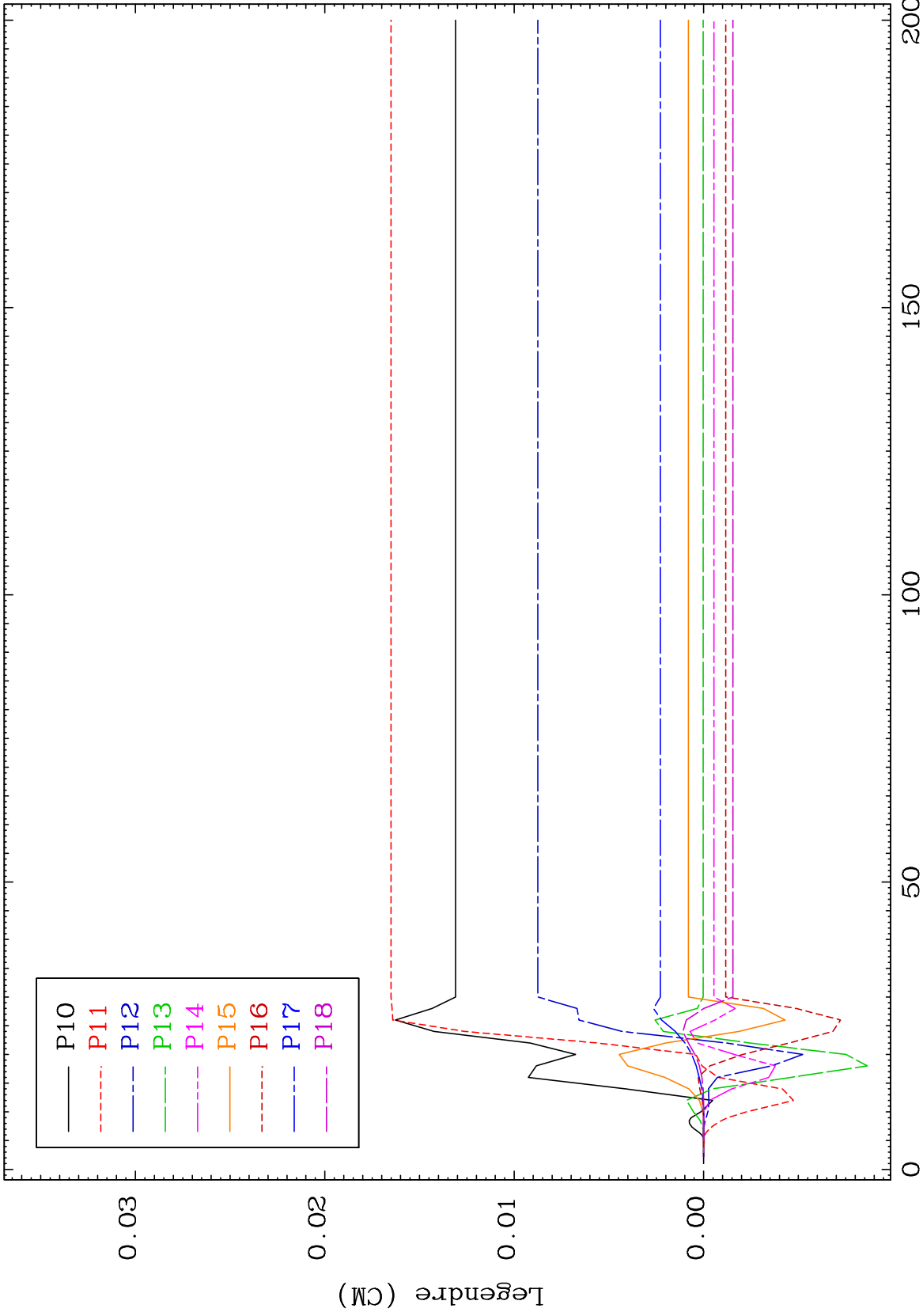
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



57

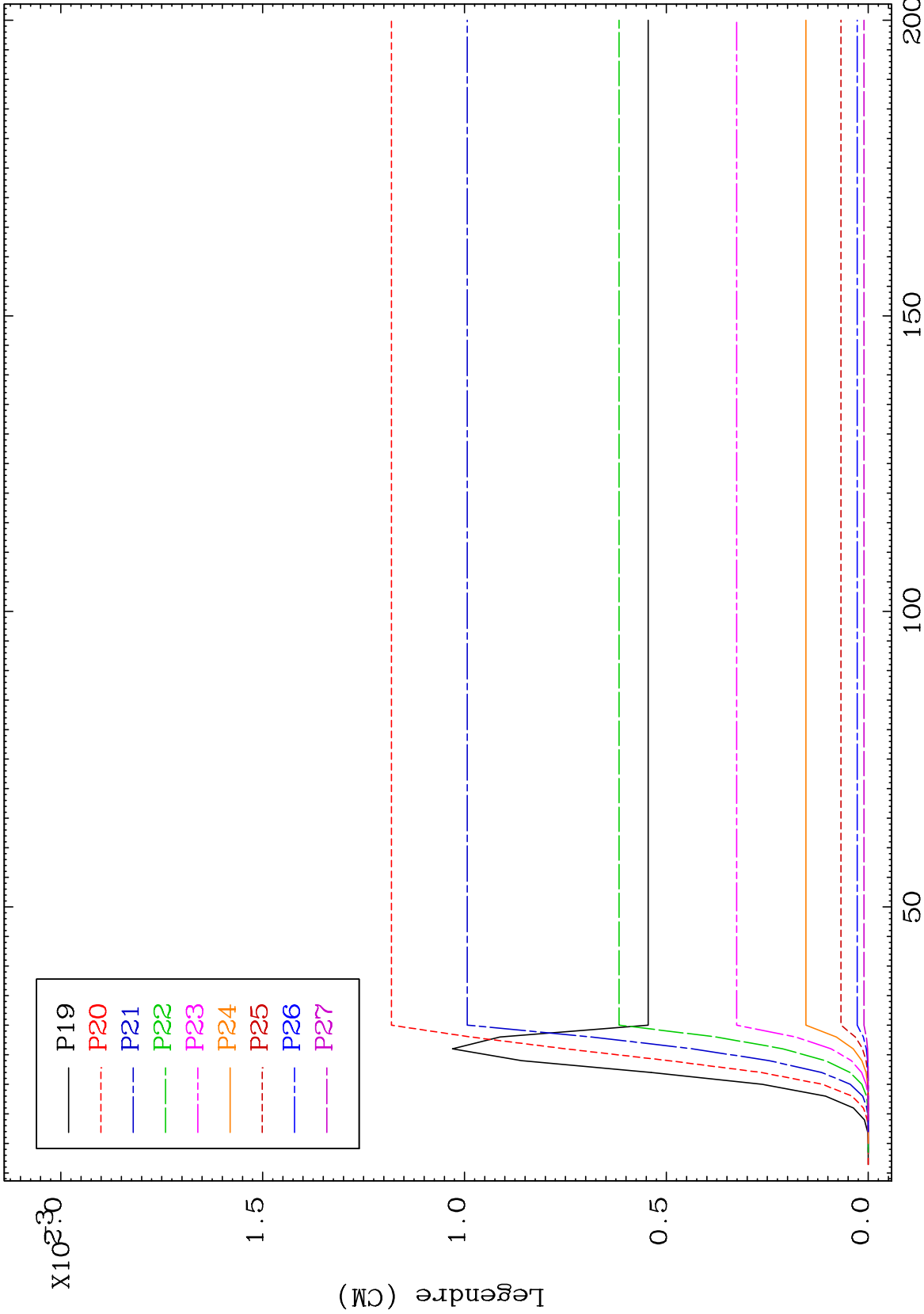
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



58

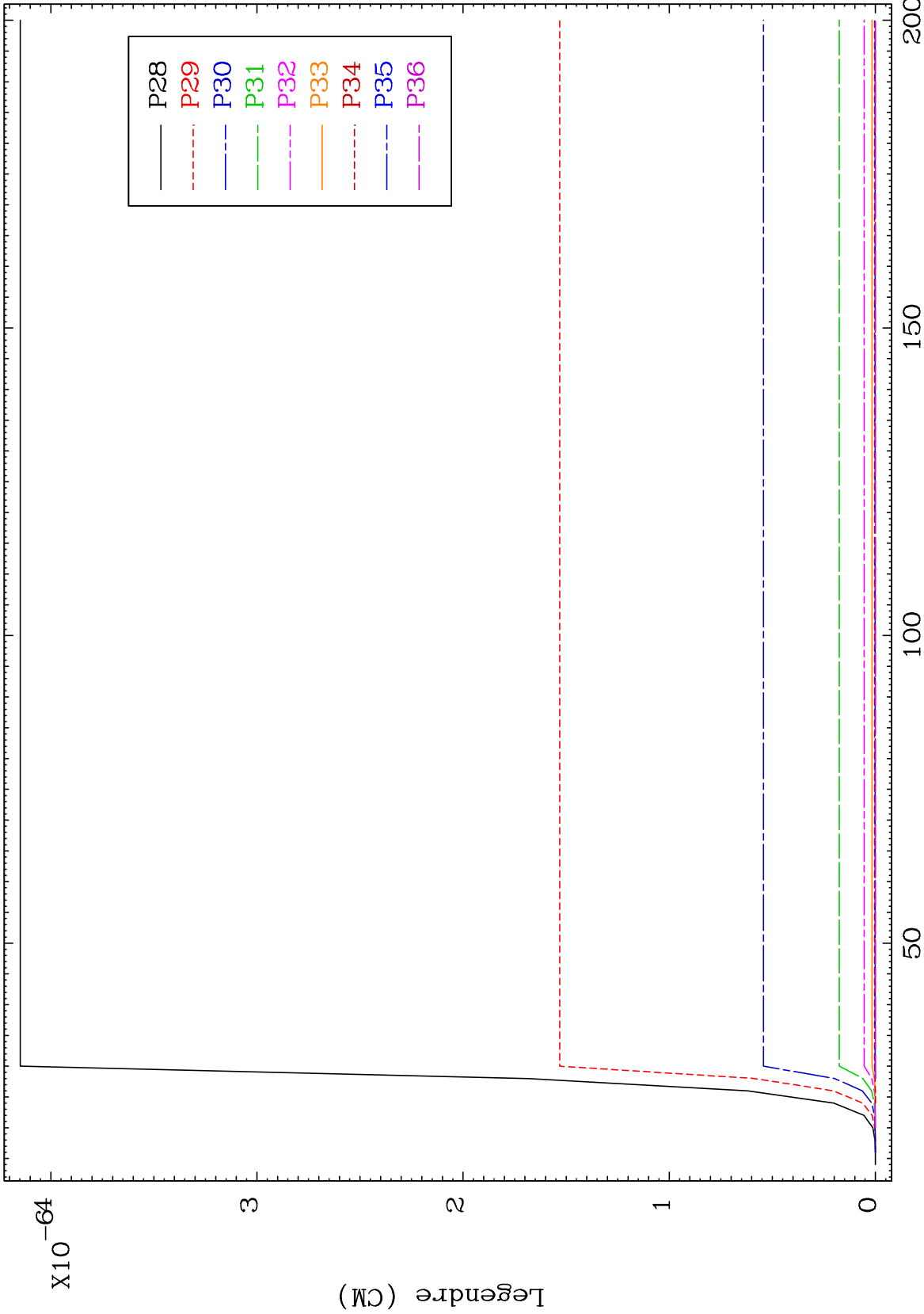
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



59

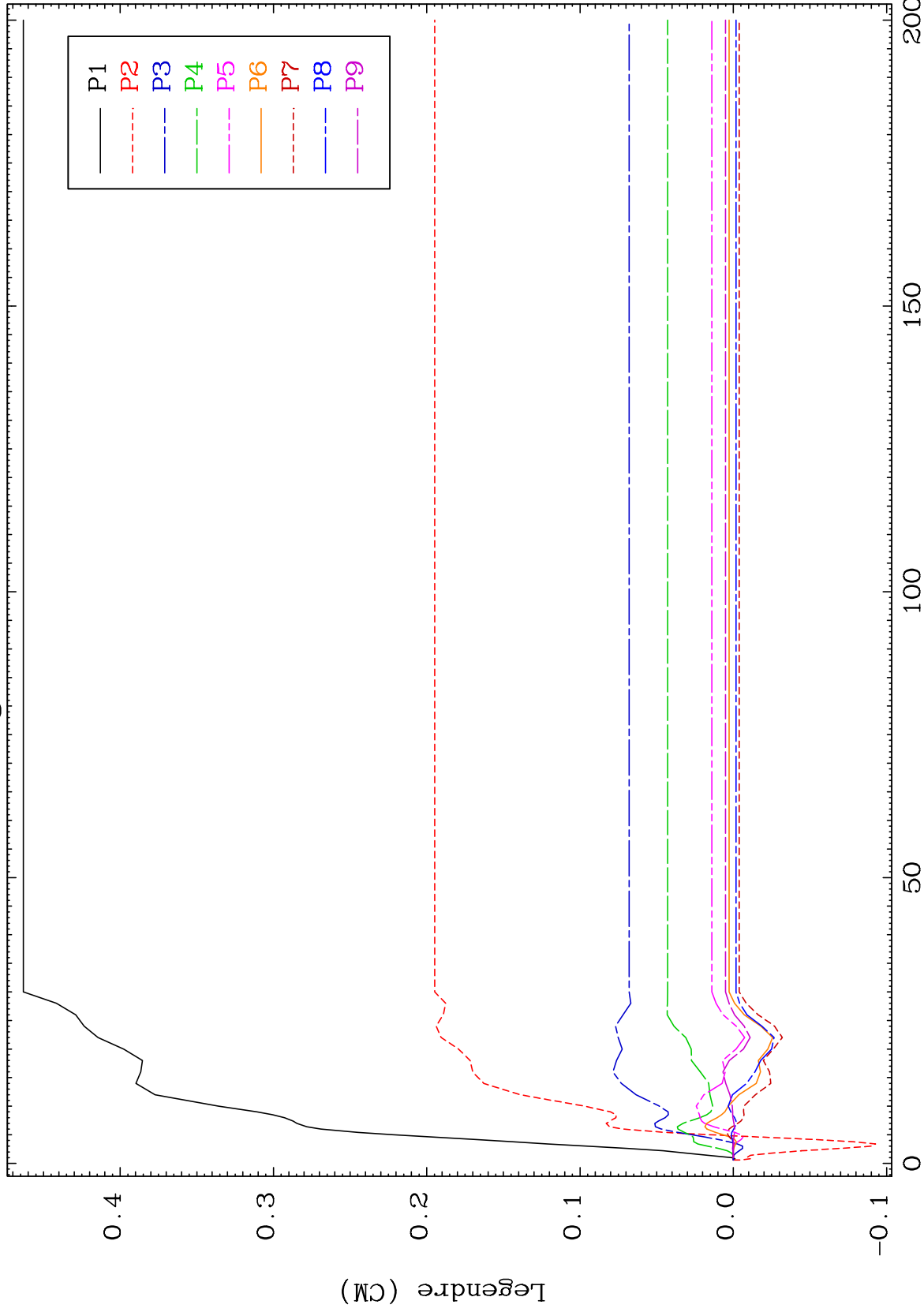
57-La-145

57-La-145

MAT 5746

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

57-La-145



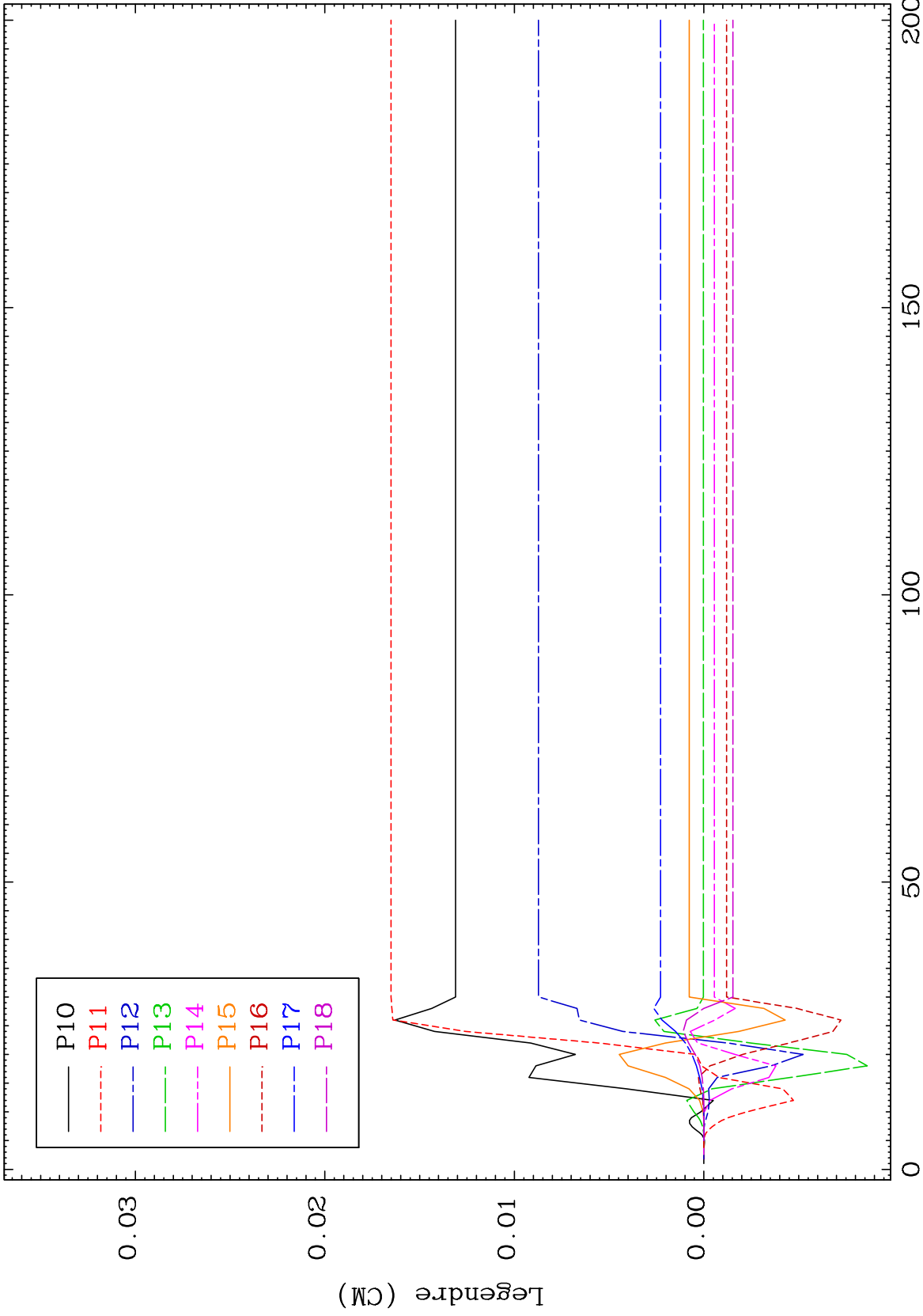
57-La-145

Incident Energy (MeV)

MAT 5746

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

57-La-145



61

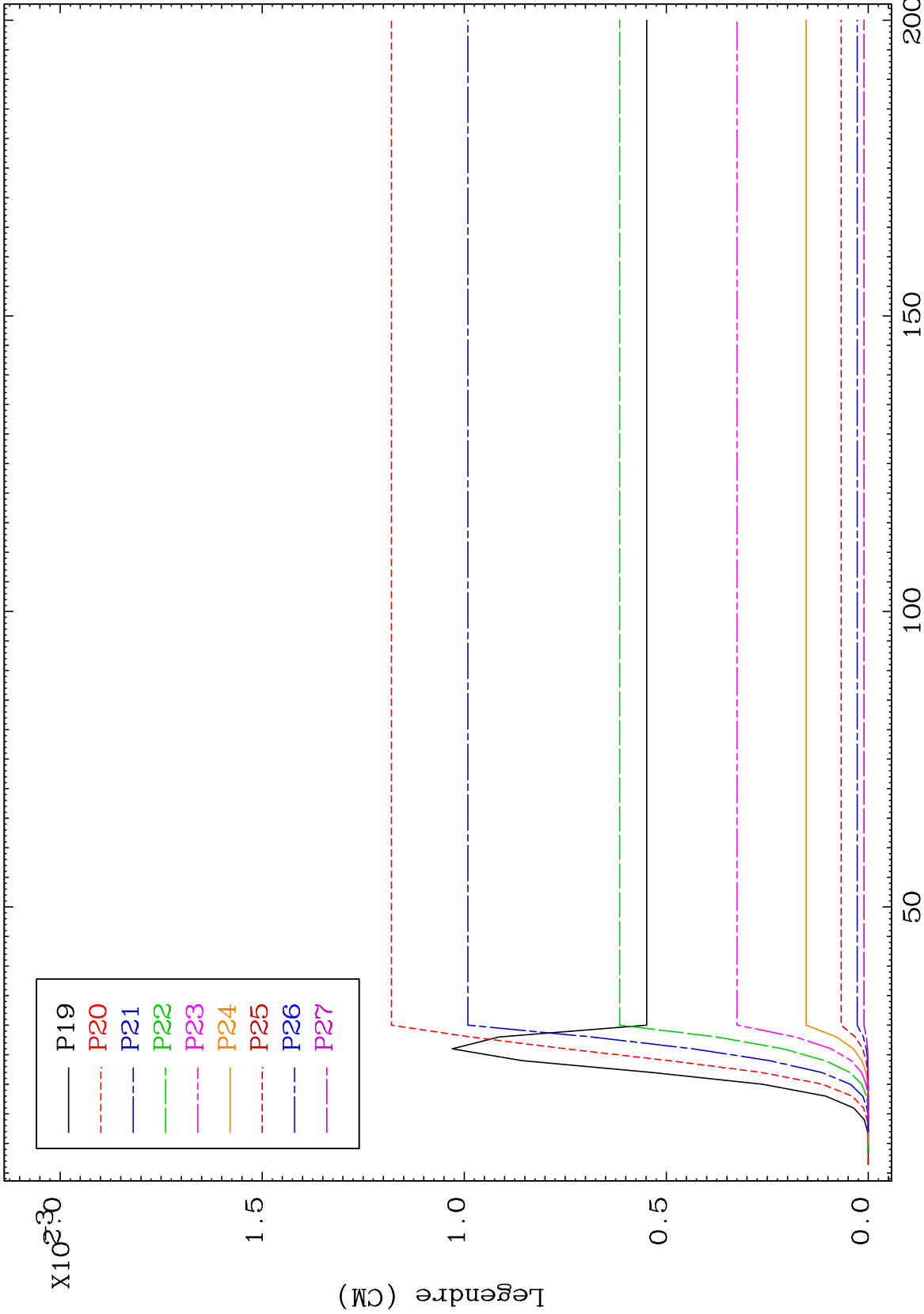
Incident Energy (MeV)

57-La-145

MAT 5746

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

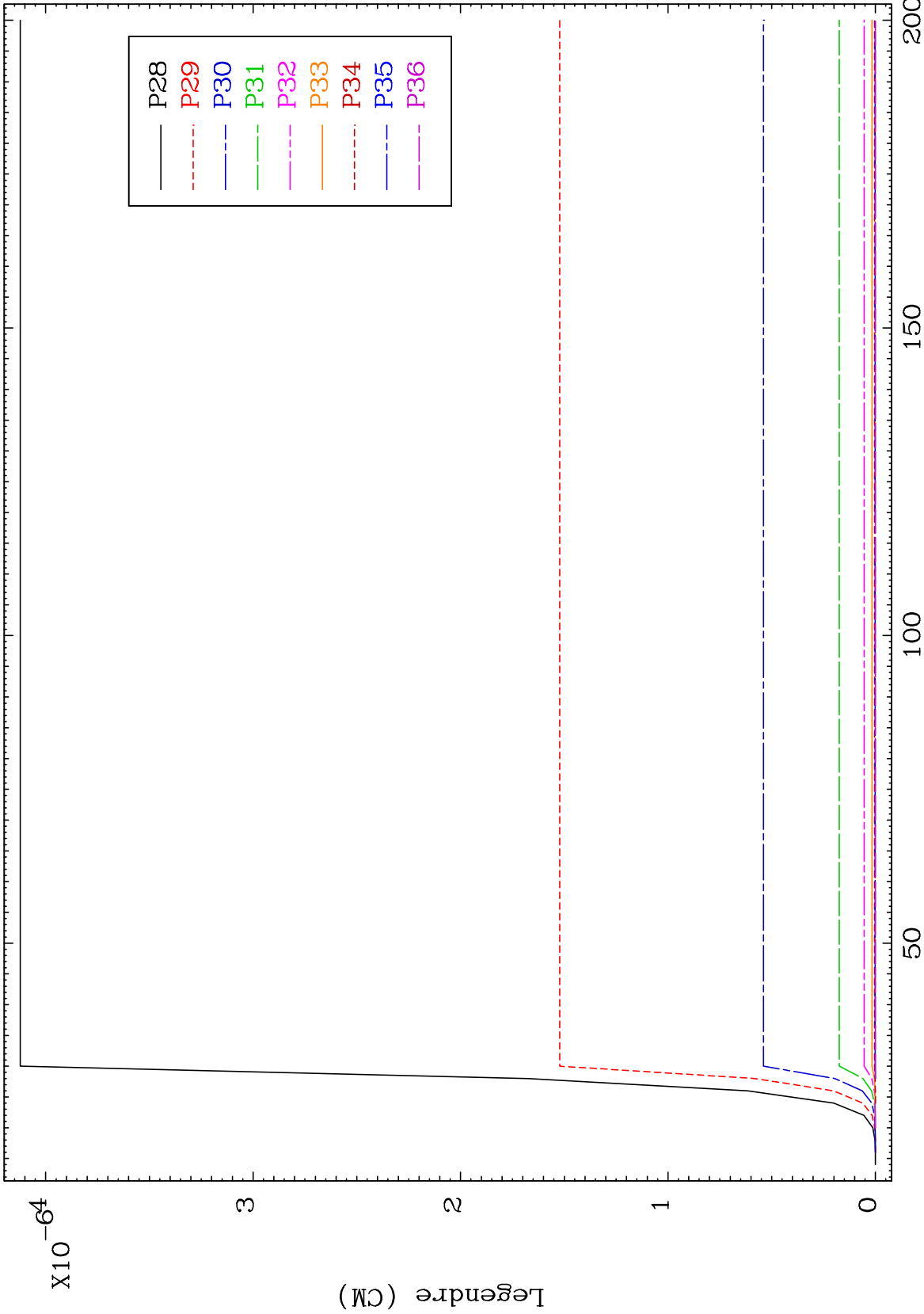
57-La-145



MAT 5746

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

57-La-145



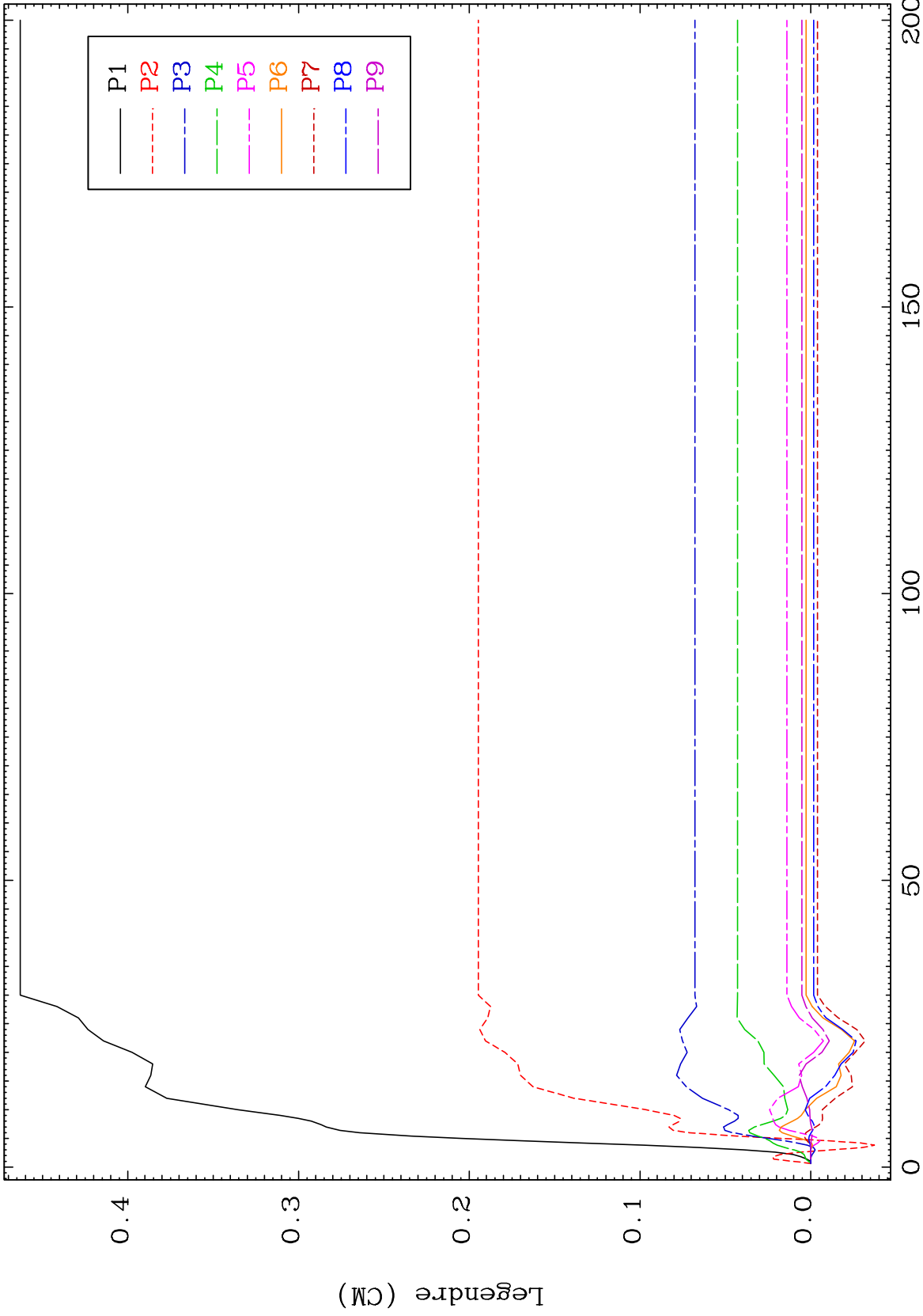
63

57-La-145

MAT 5746

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

57-La-145



64

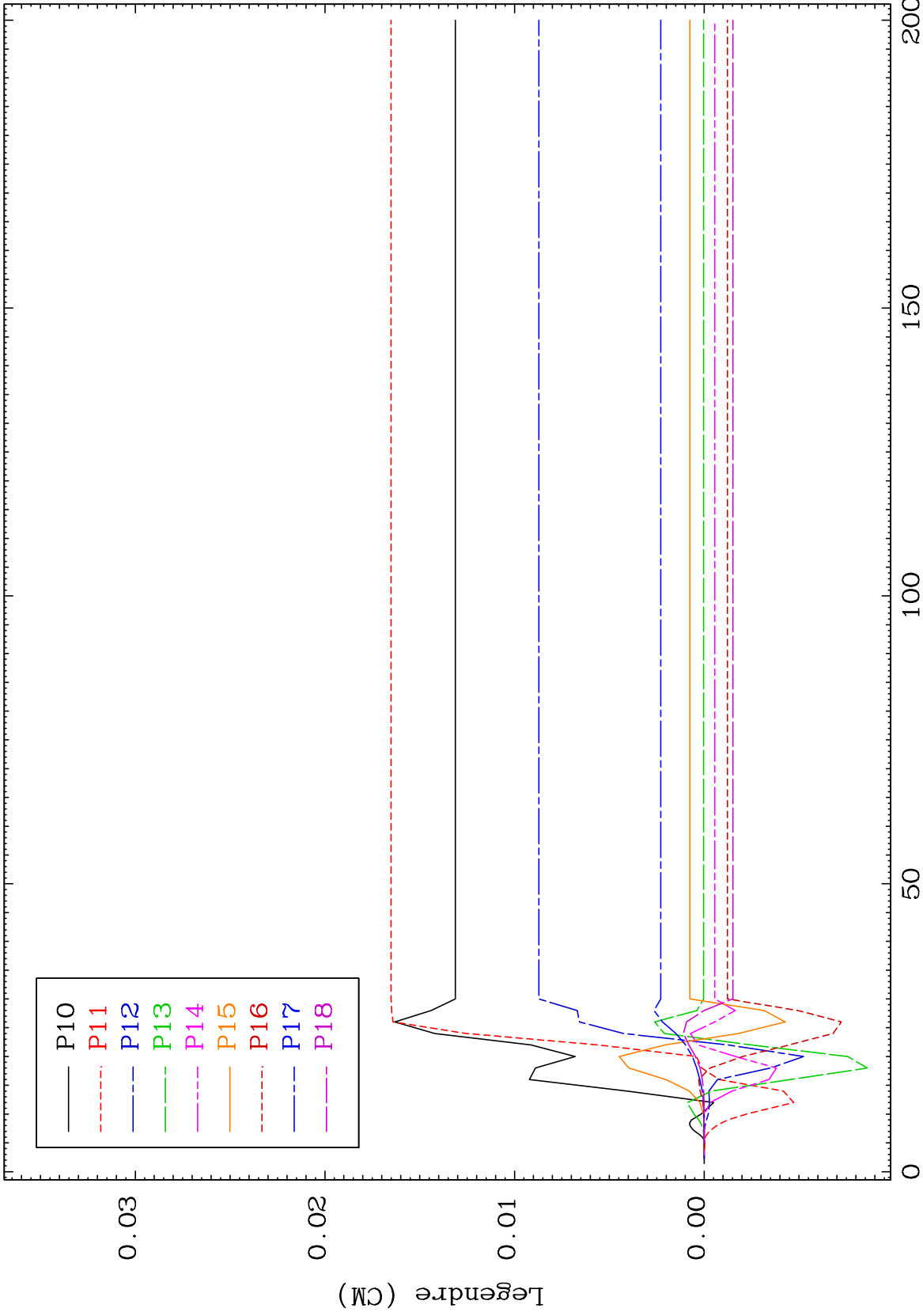
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



65

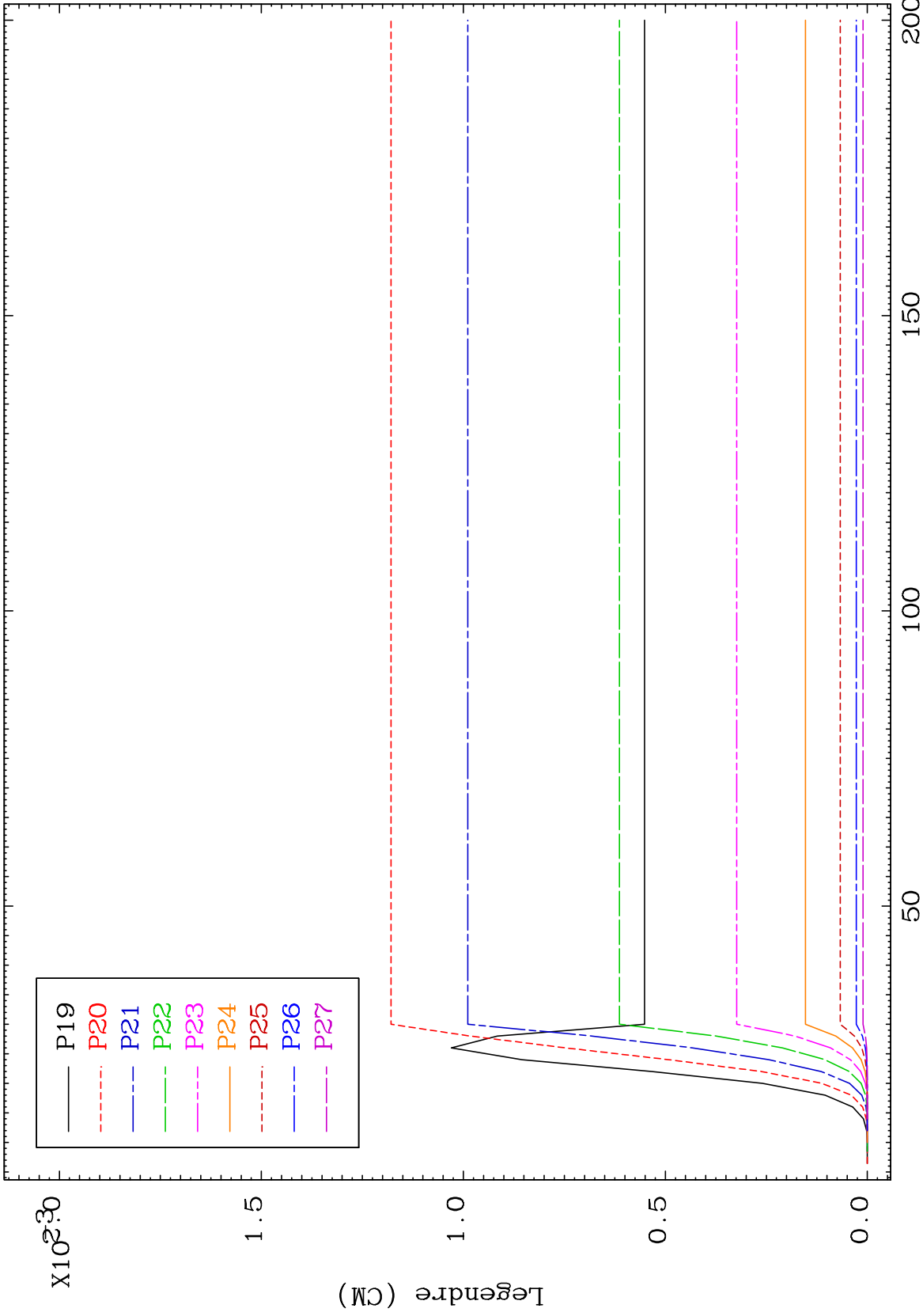
Incident Energy (MeV)

57-La-145

MAT 5746

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

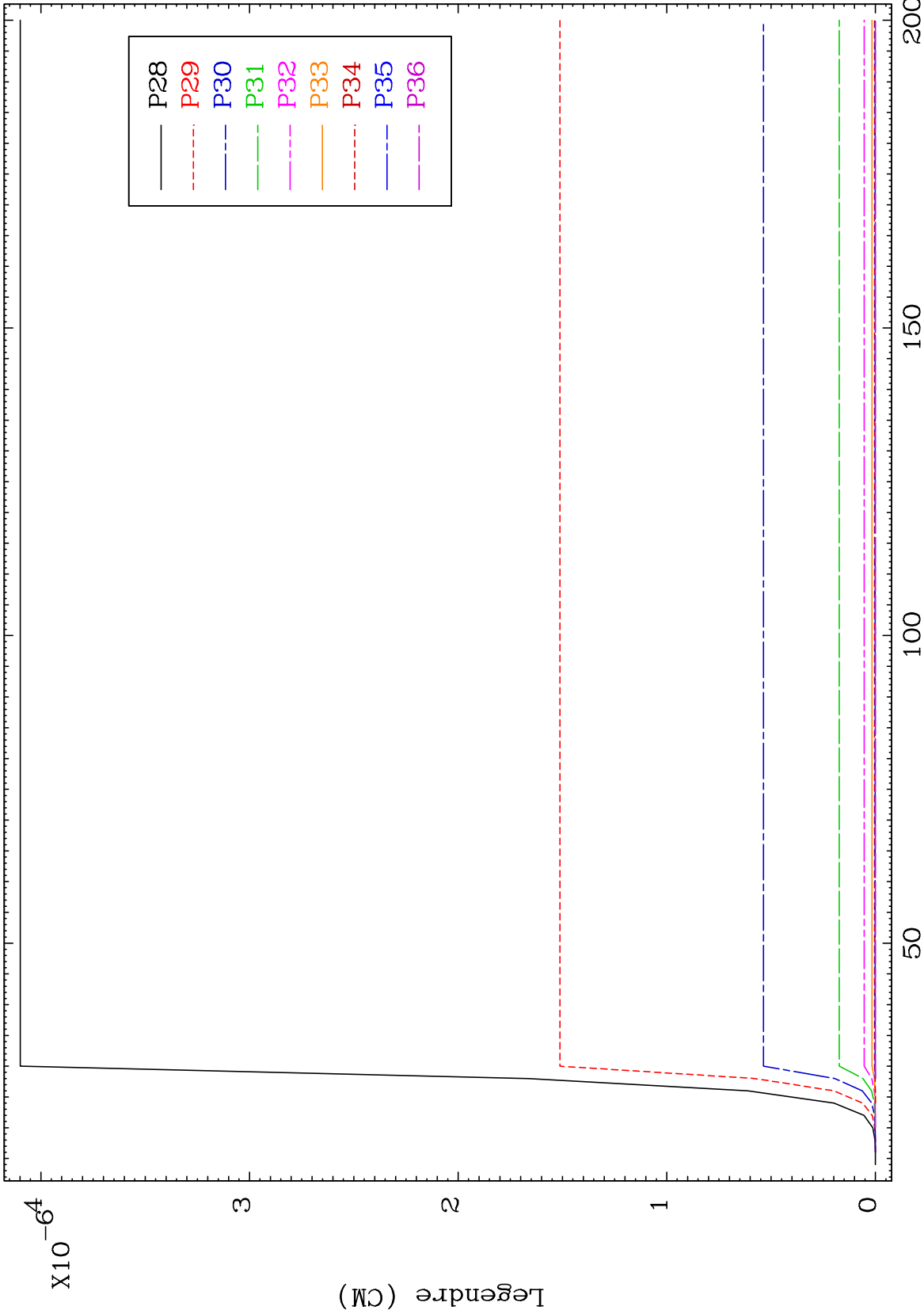
57-La-145



MAT 5746

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

57-La-145



67

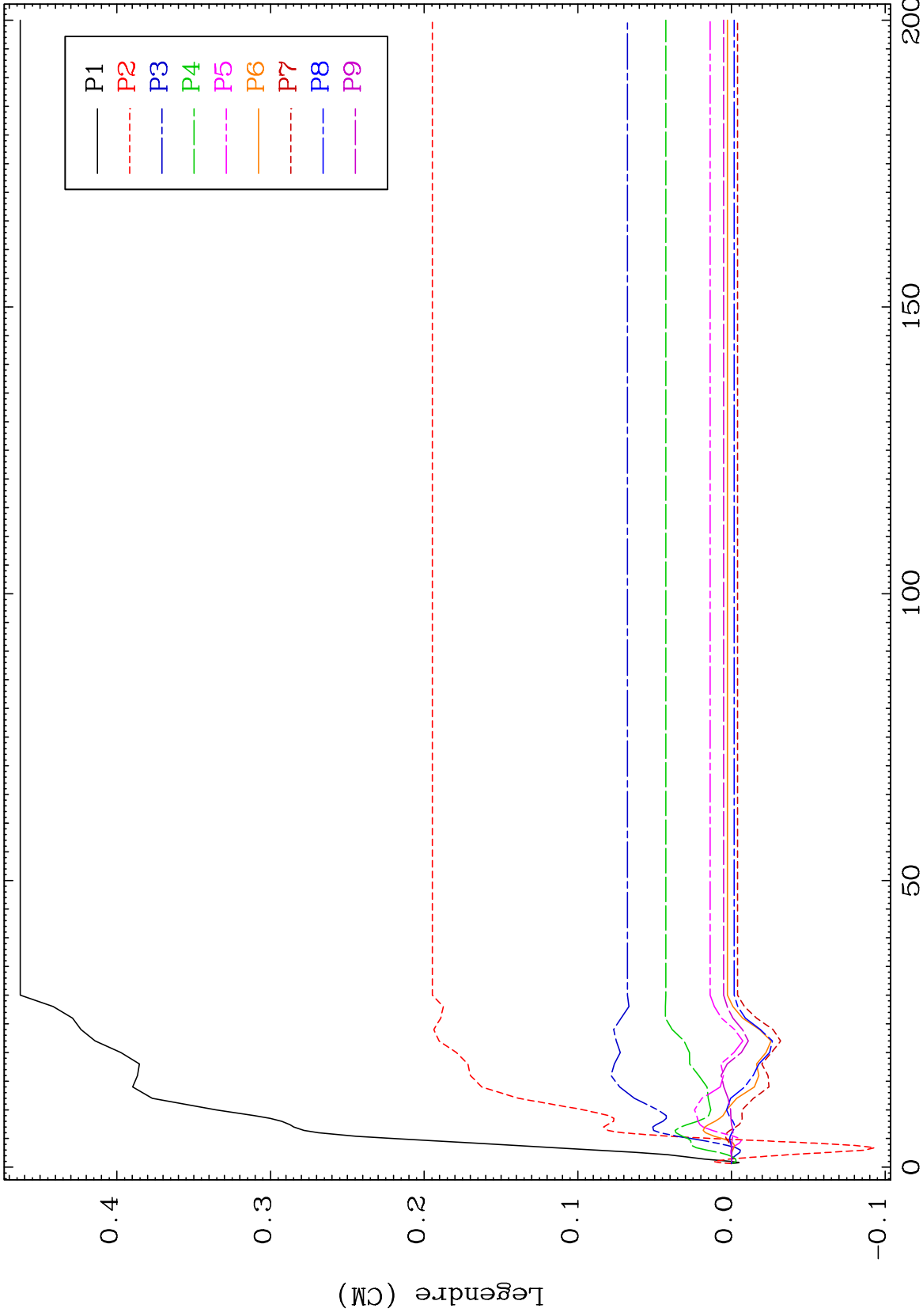
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



68

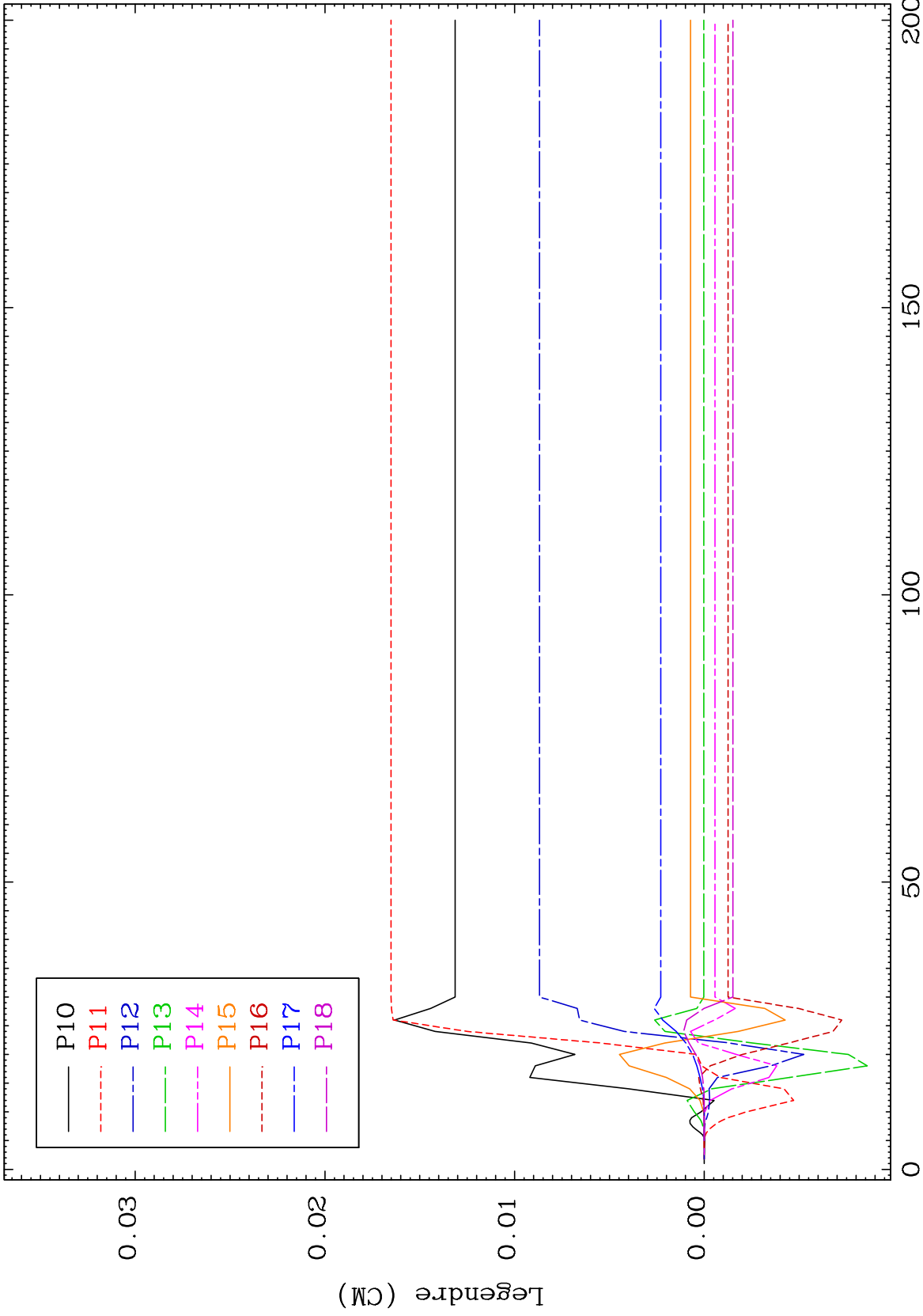
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



69

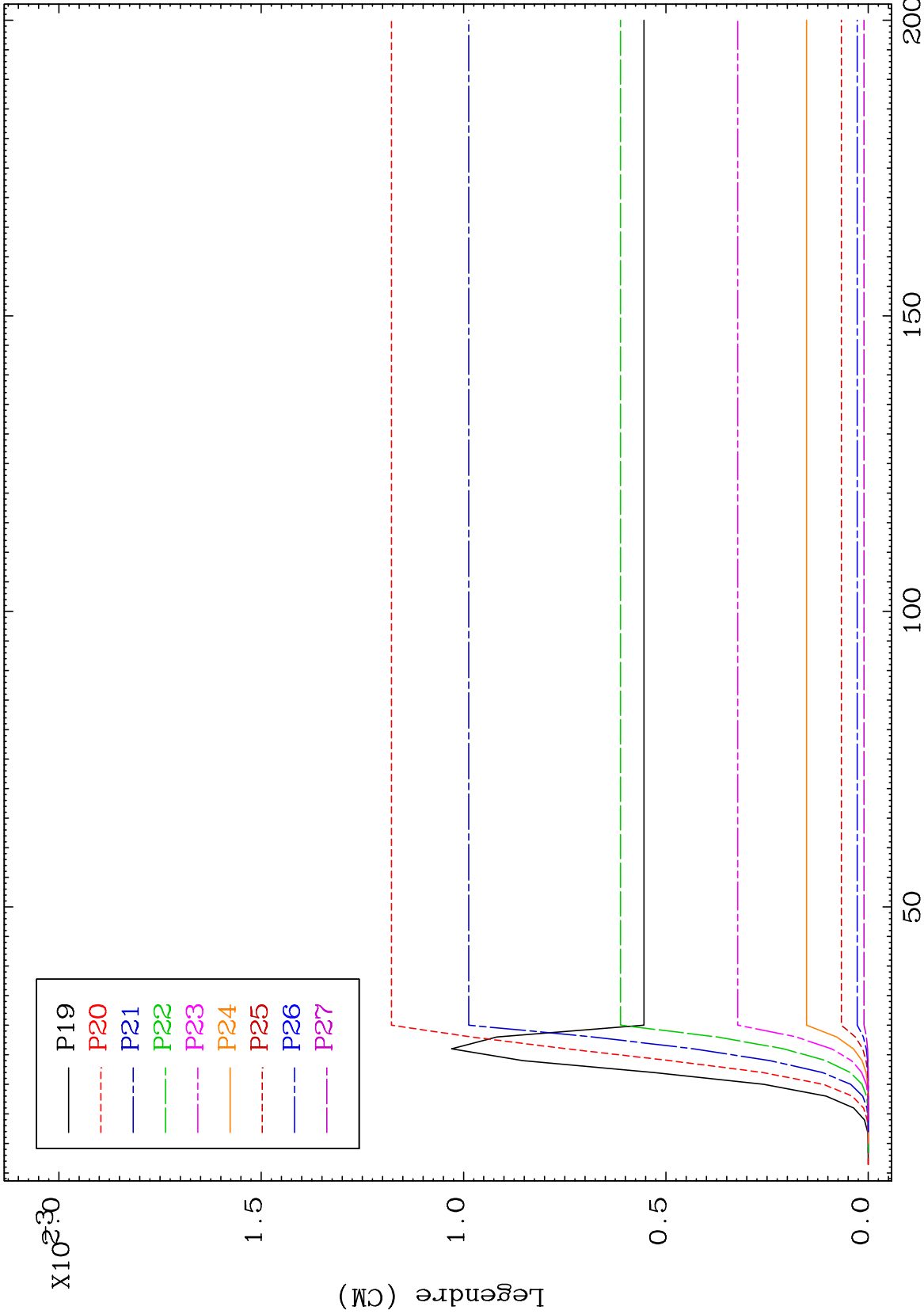
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



70

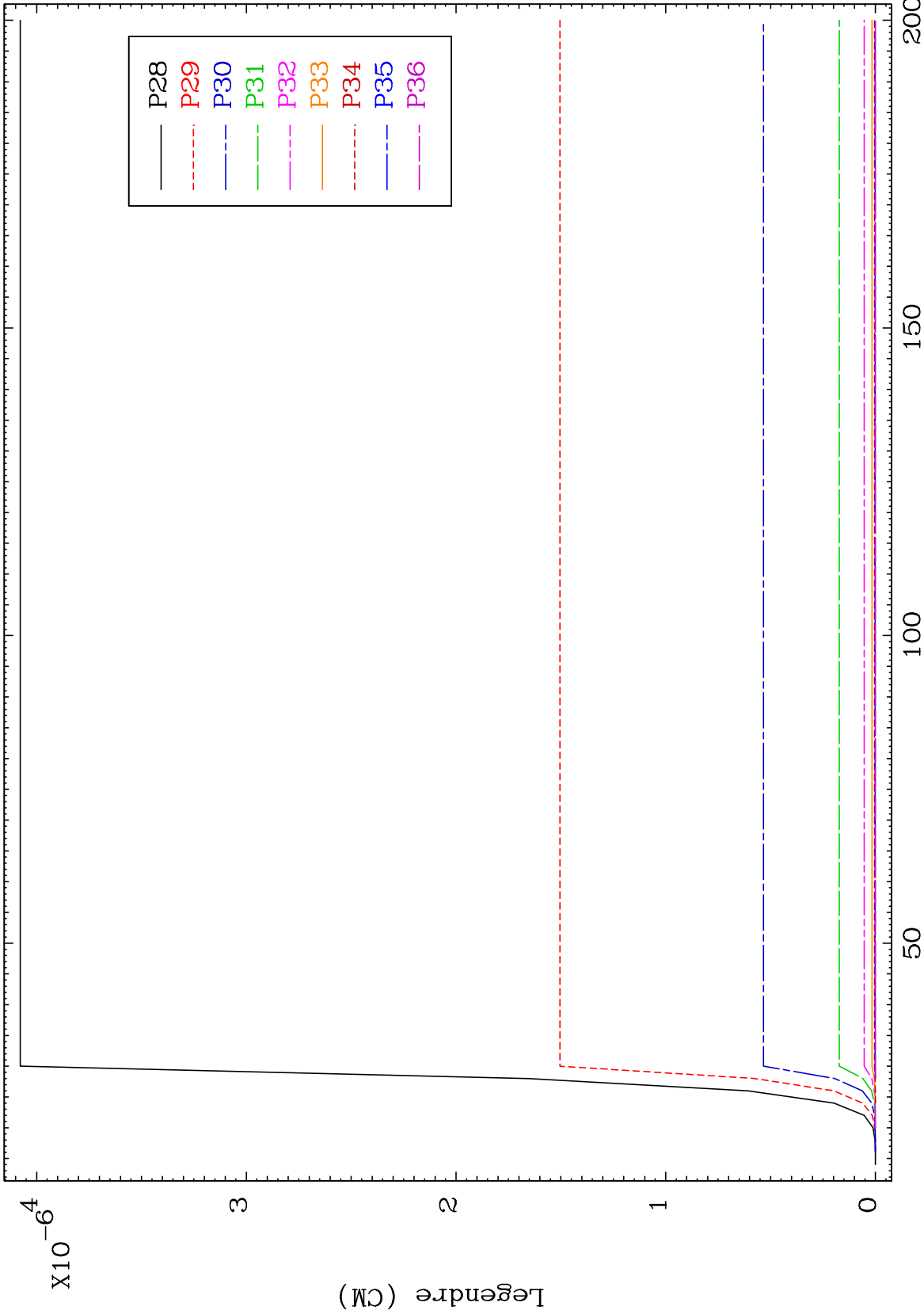
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



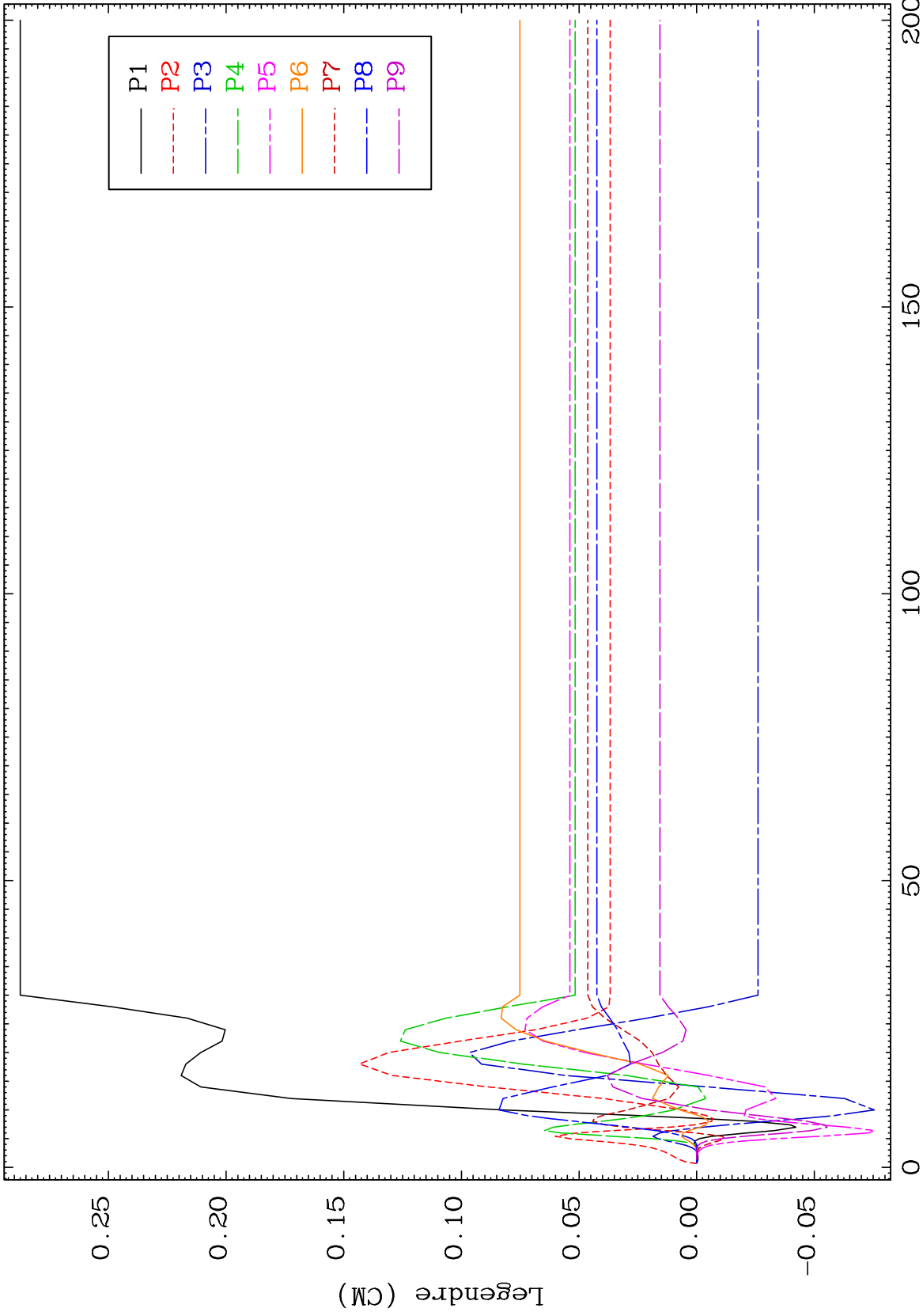
71

57-La-145

MAT 5746

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

57-La-145



72

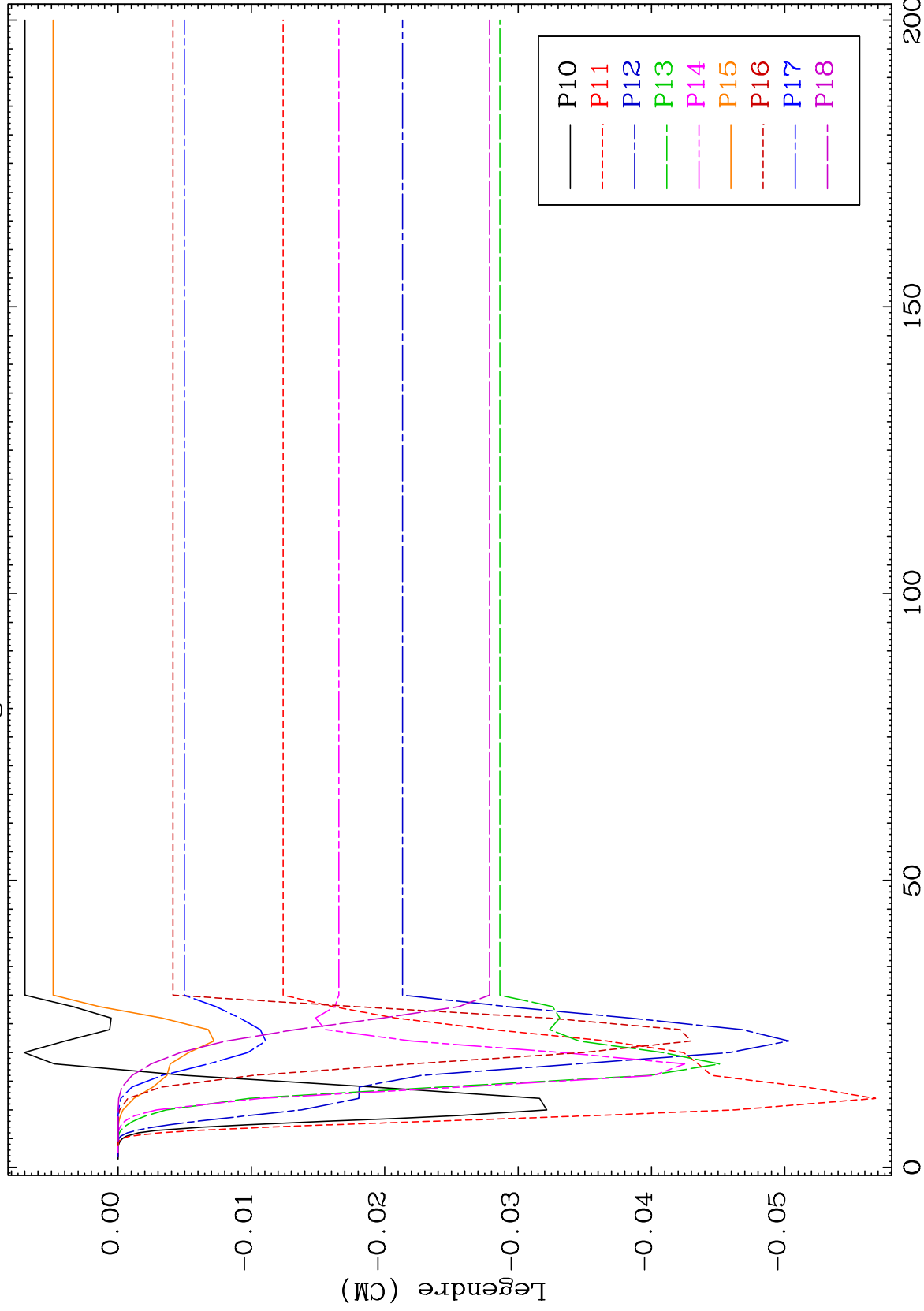
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145

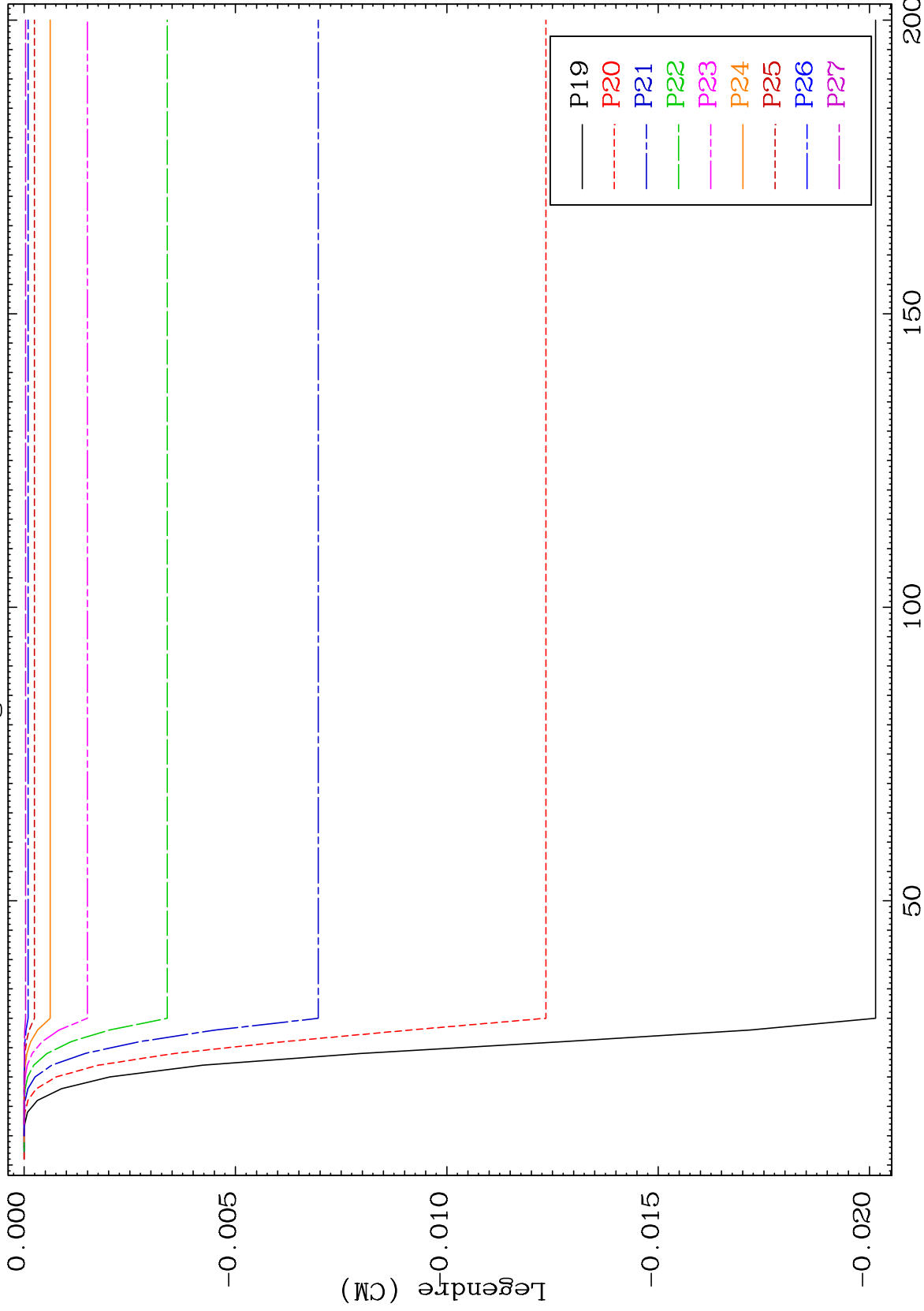


73

Incident Energy (MeV)

57-La-145

MAT 5746 MT= 64 (n,n') Level Legendre Coefficients 57-La-145

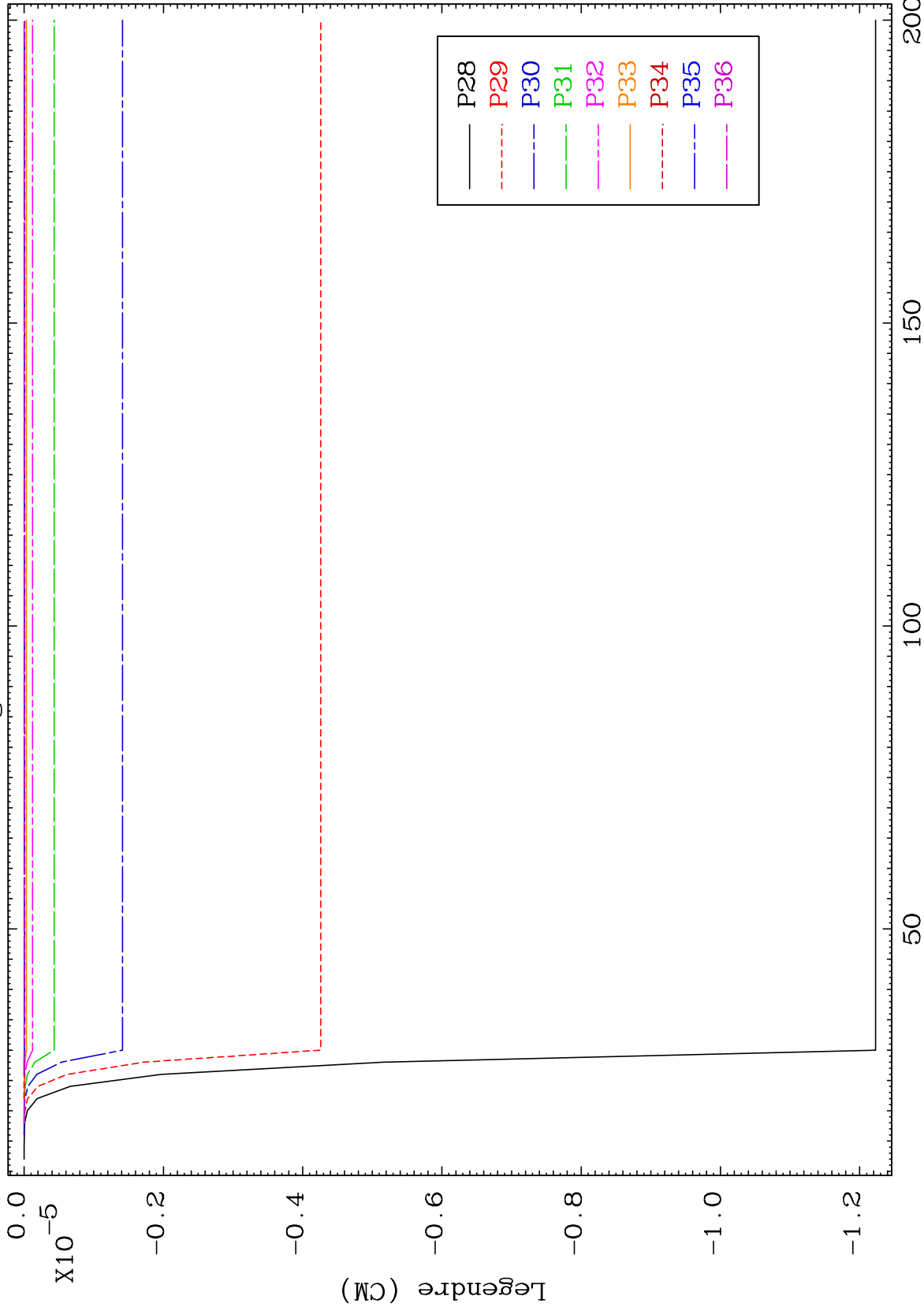


74 57-La-145

MAT 5746

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

57-La-145



57-La-145

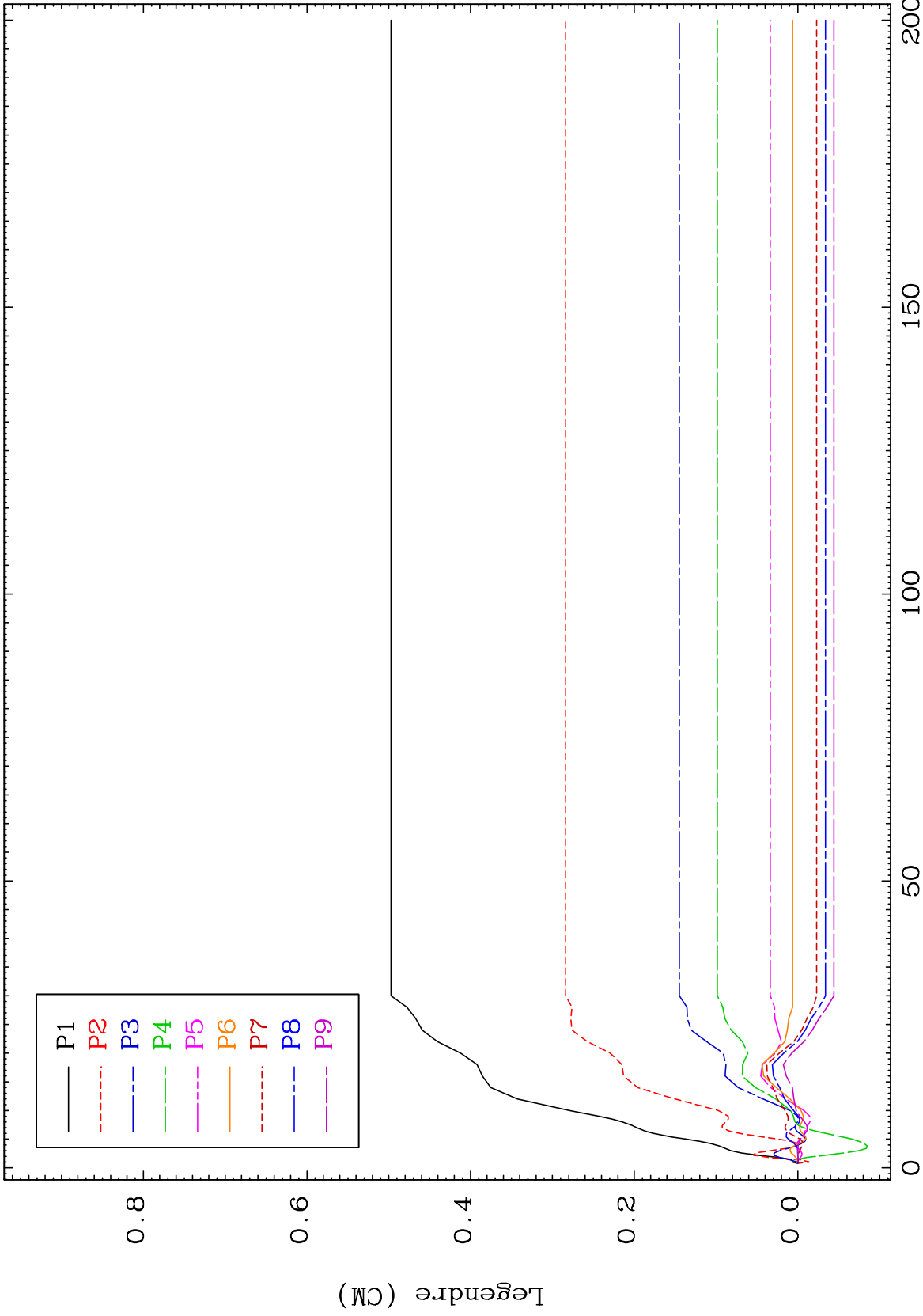
Incident Energy (MeV)

75

MAT 5746

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

57-La-145



76

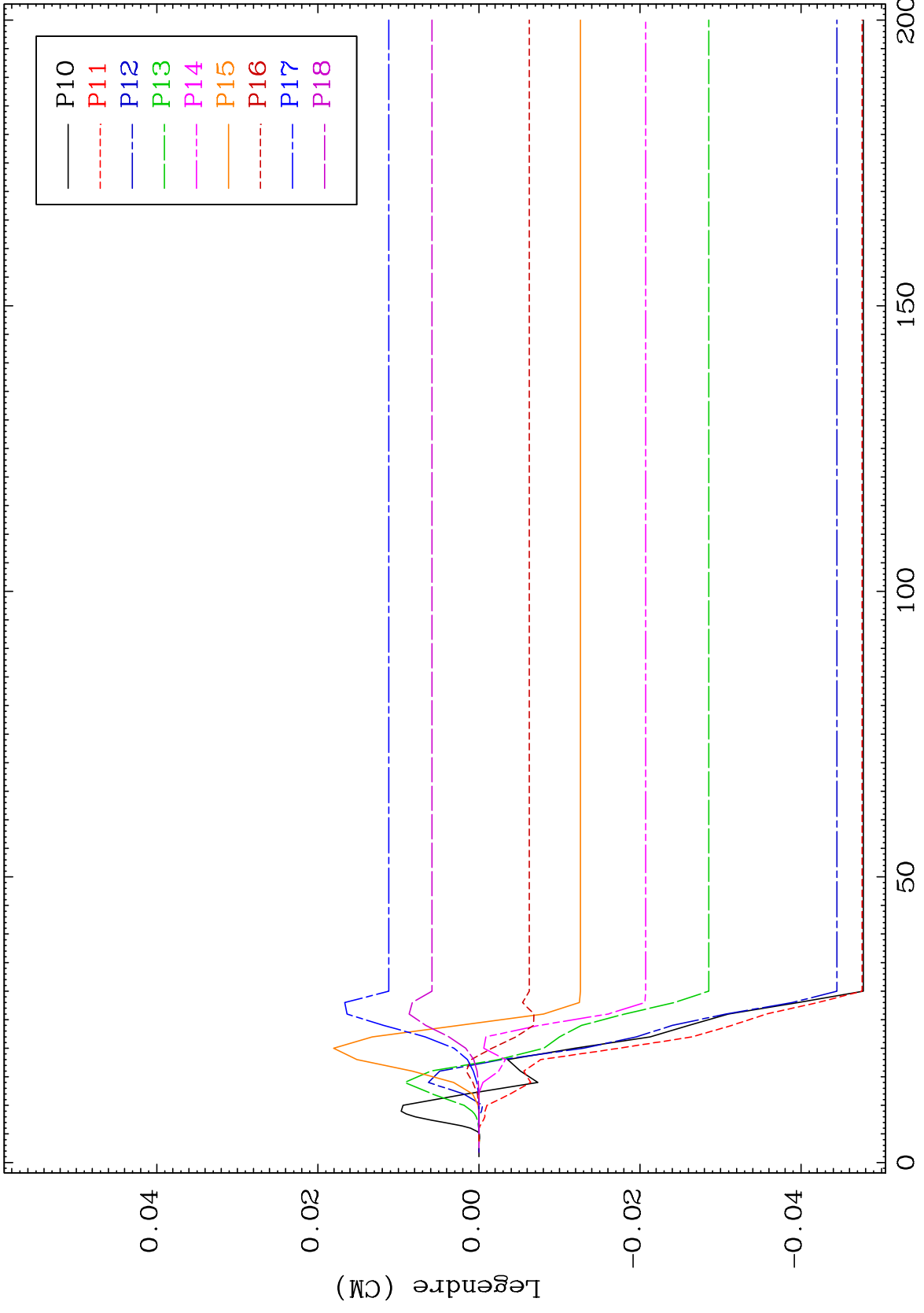
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



77

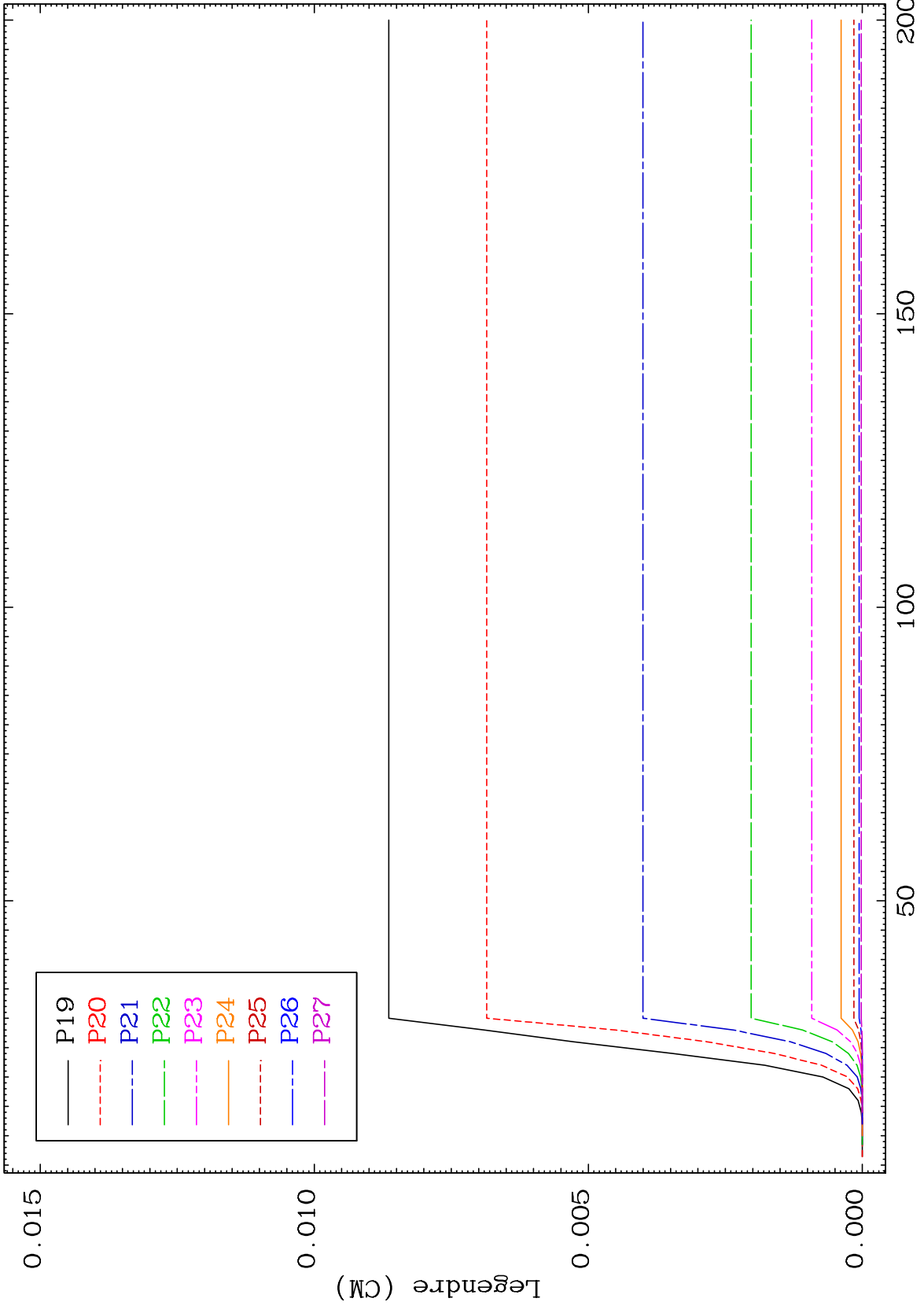
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



78

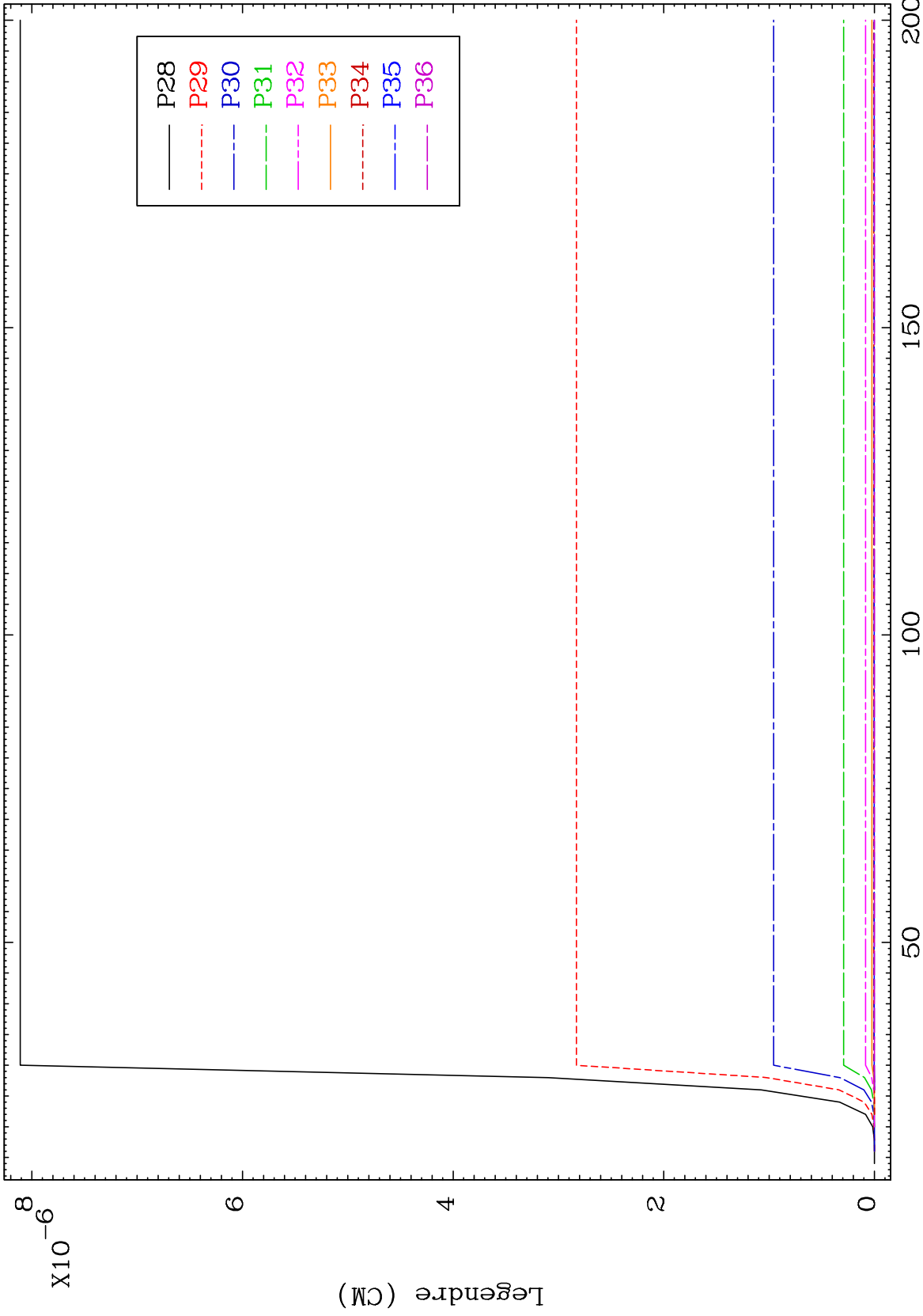
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



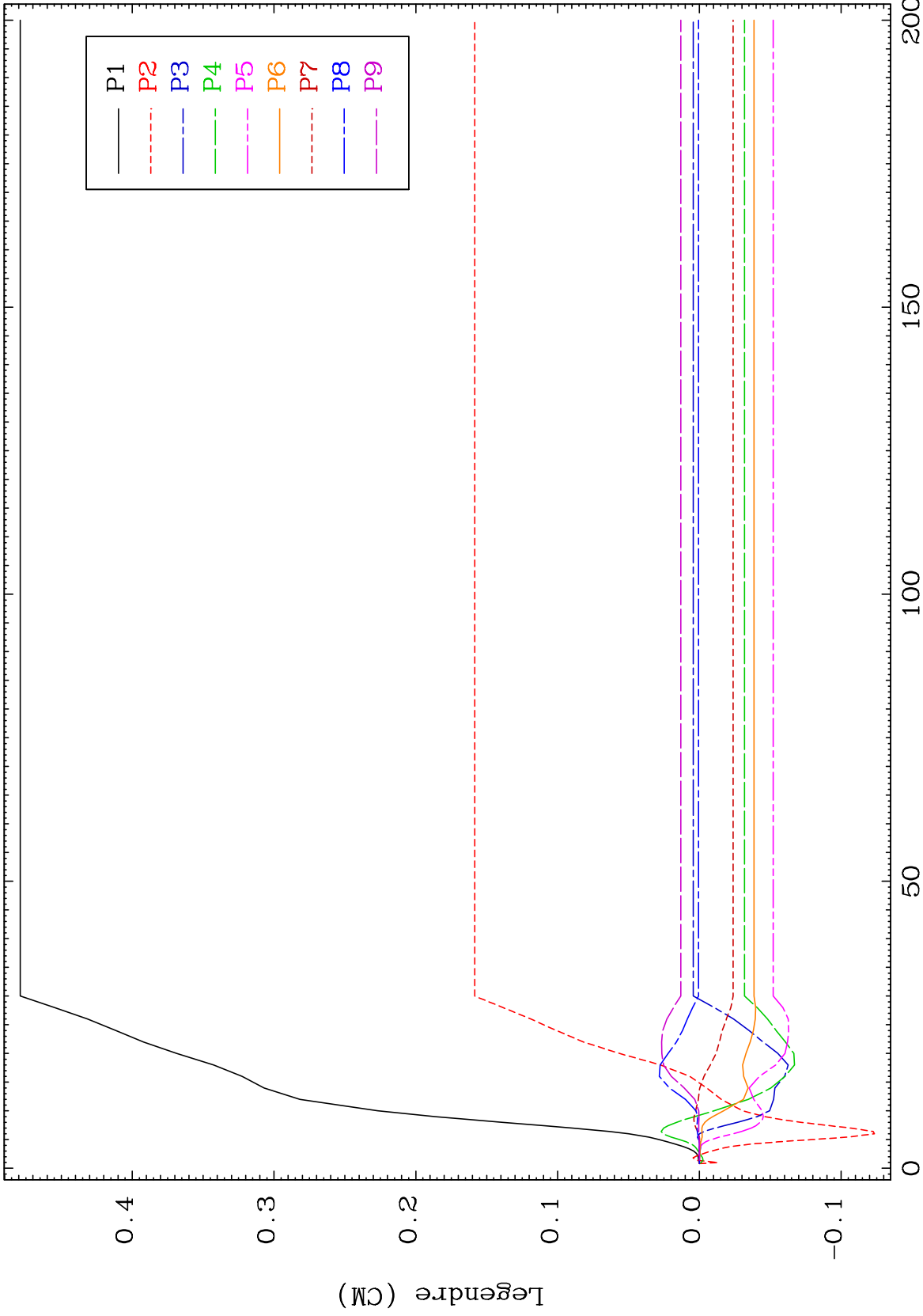
79

57-La-145

MAT 5746

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

57-La-145



57-La-145

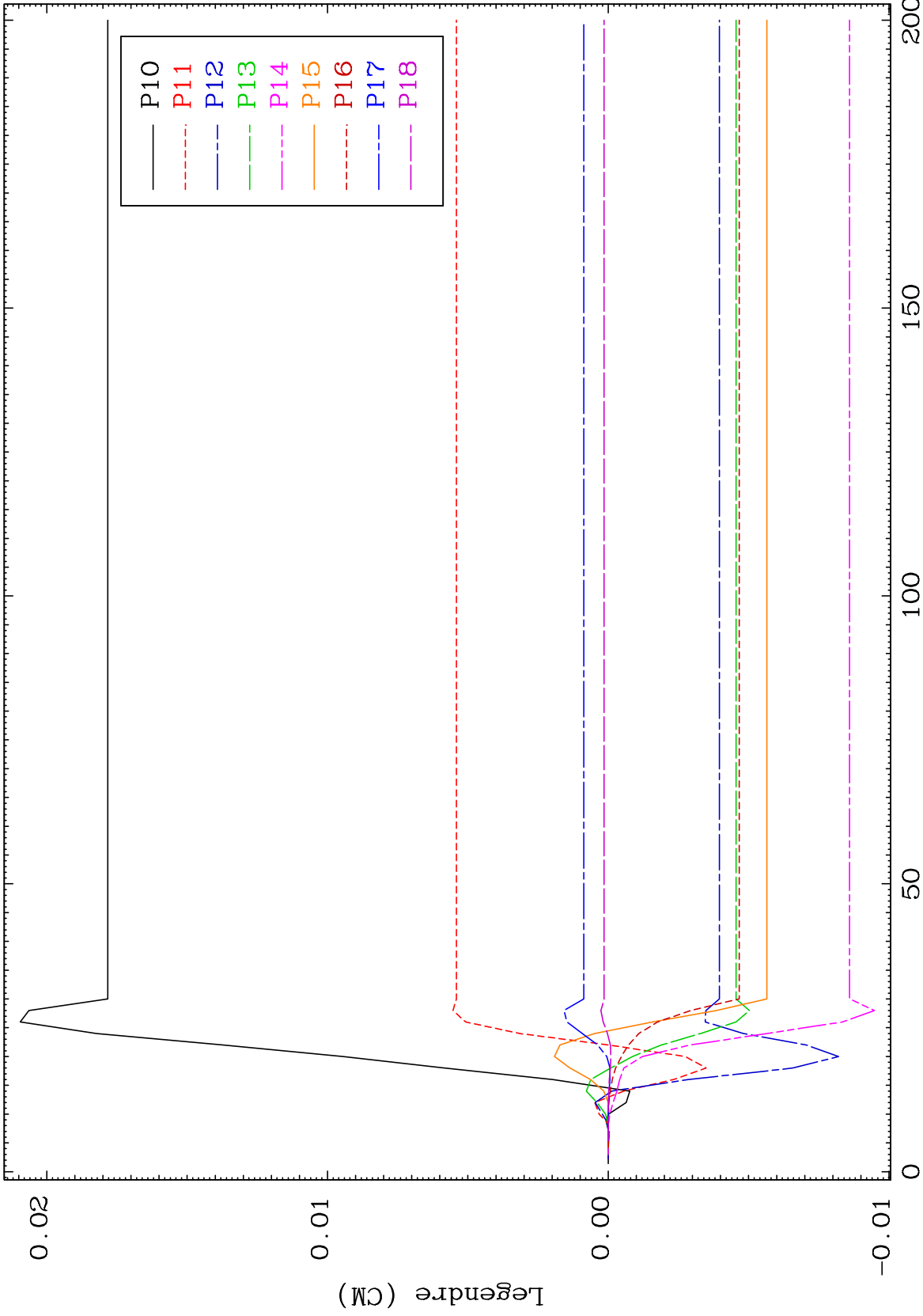
Incident Energy (MeV)

80

MAT 5746

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

57-La-145



81

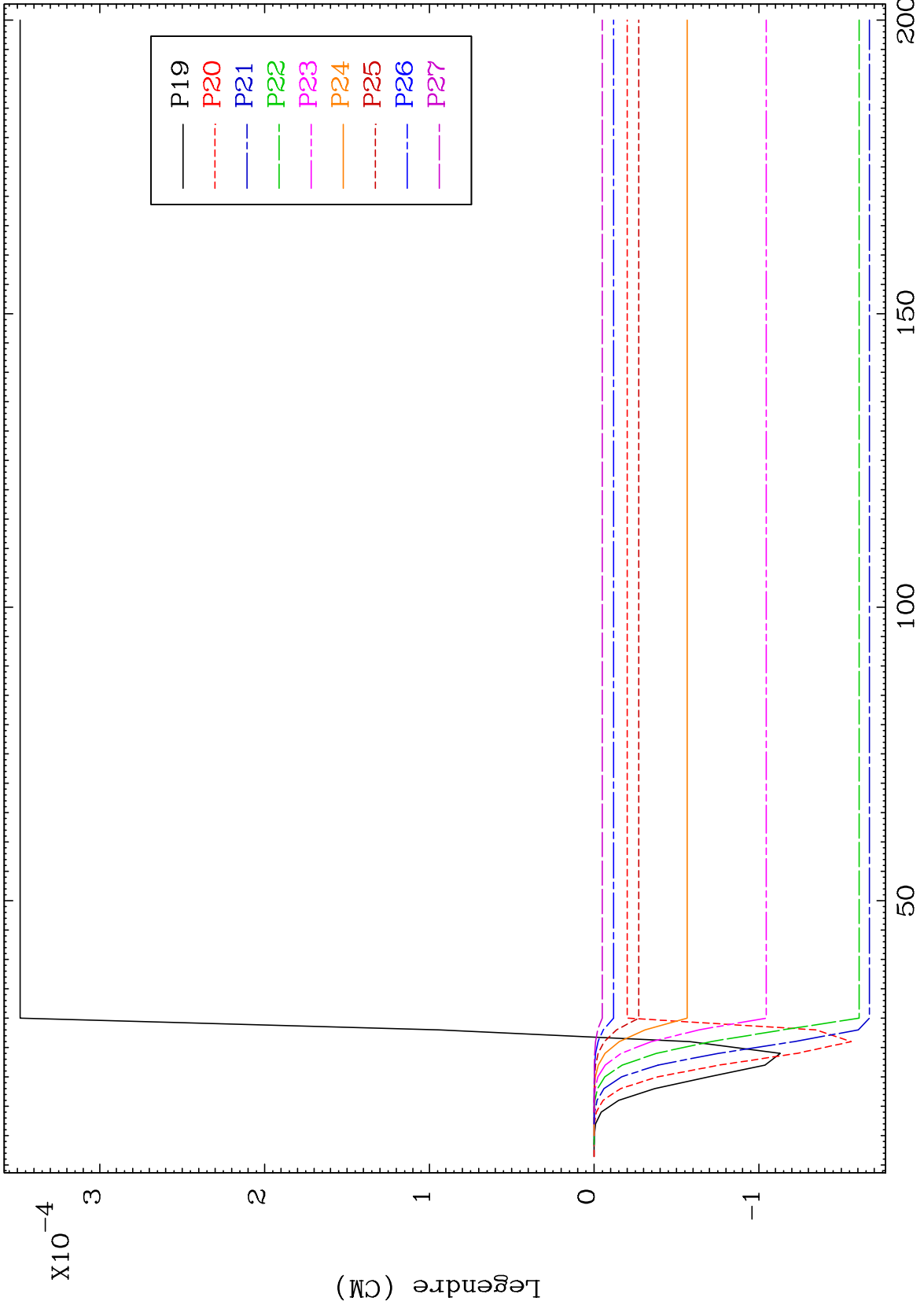
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



82

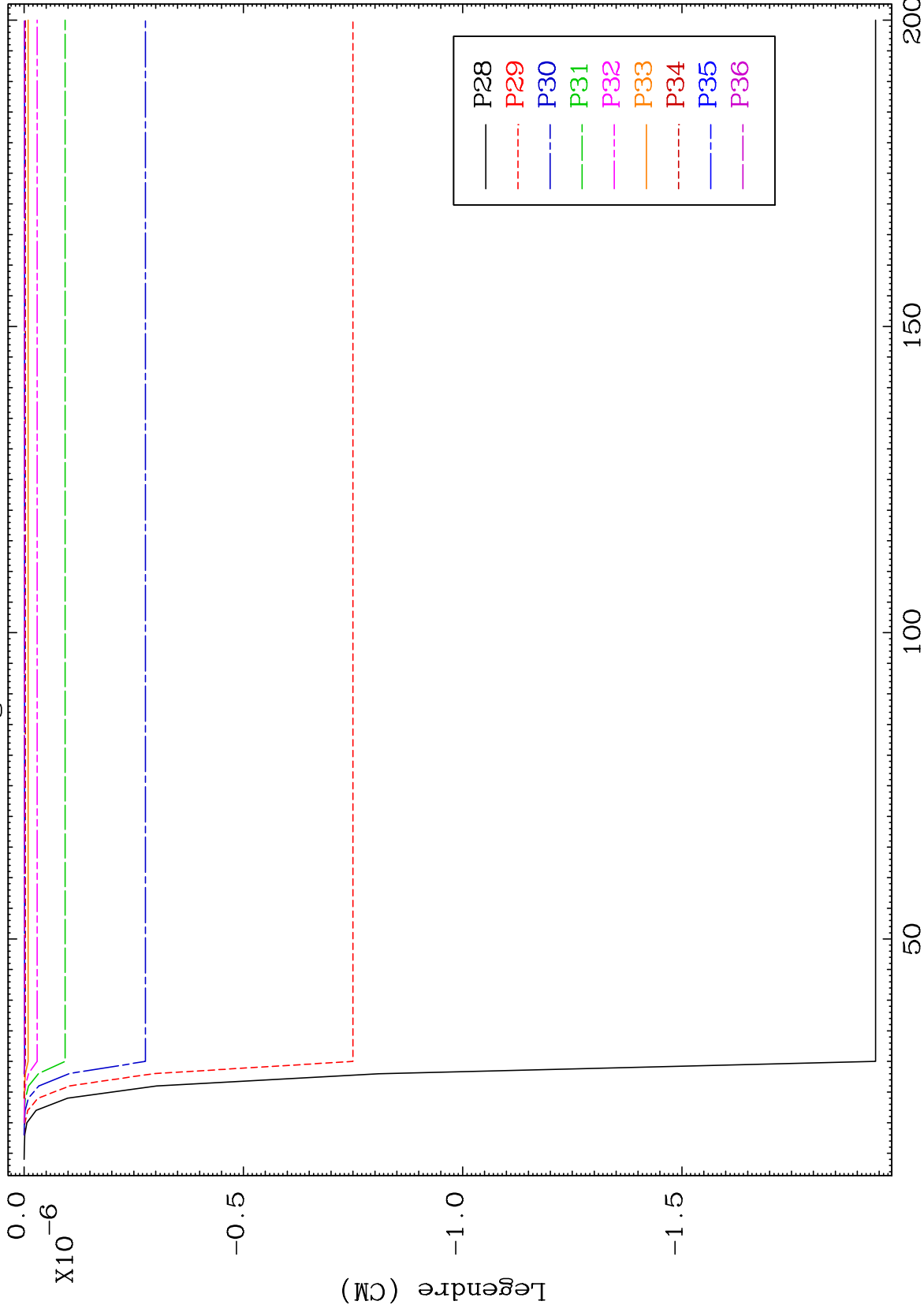
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



57-La-145

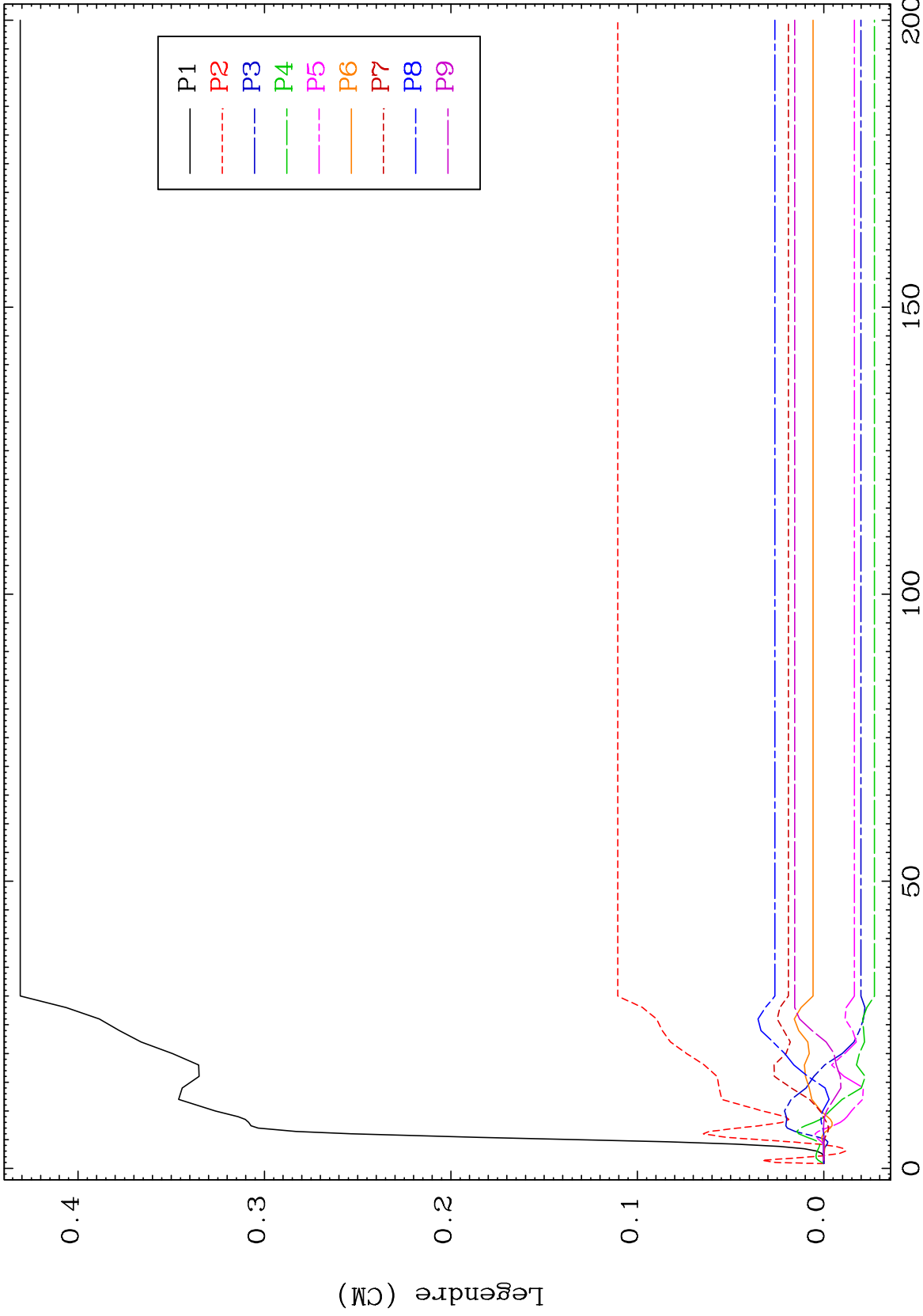
Incident Energy (MeV)

83

MAT 5746

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

57-La-145



84

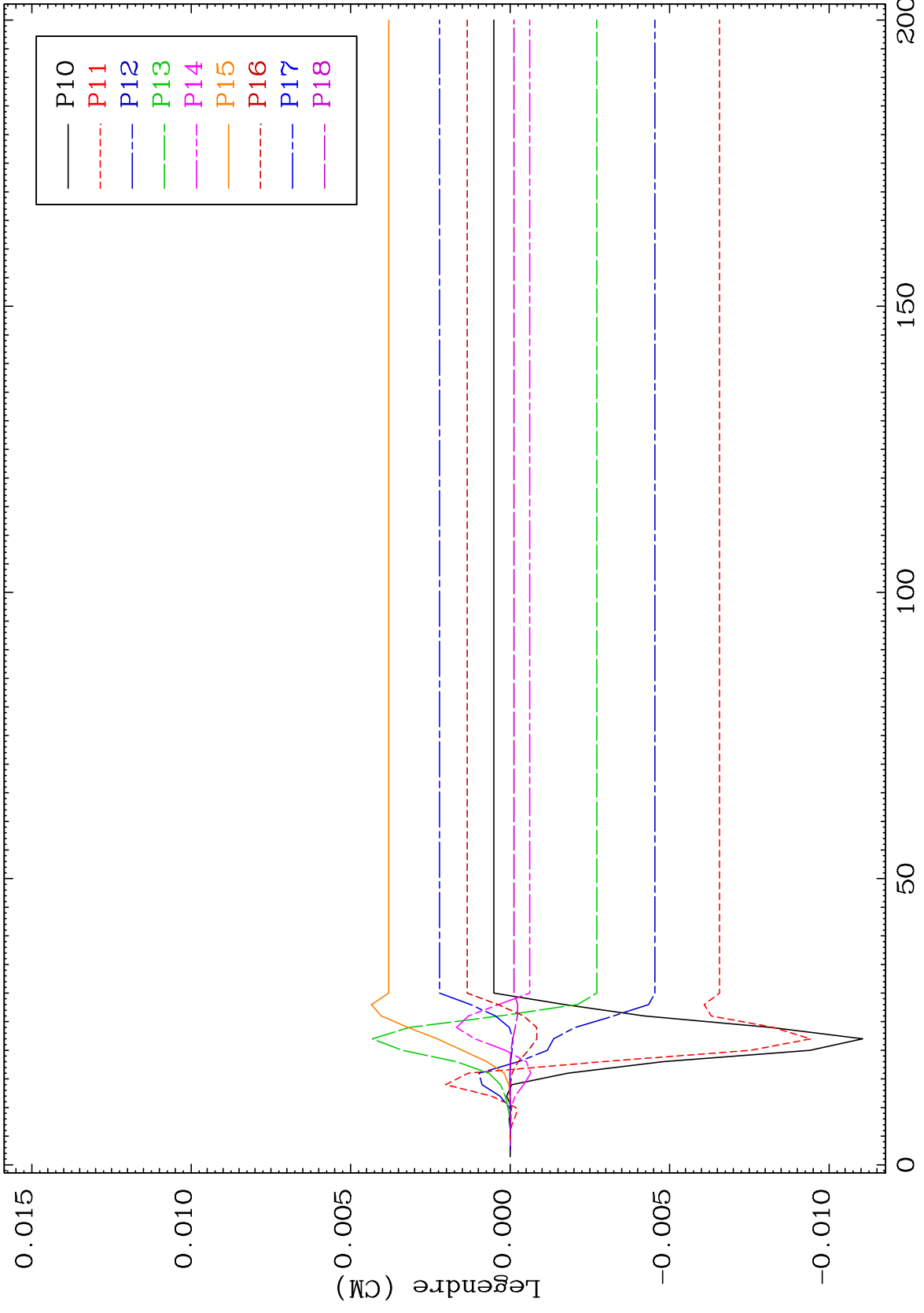
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145

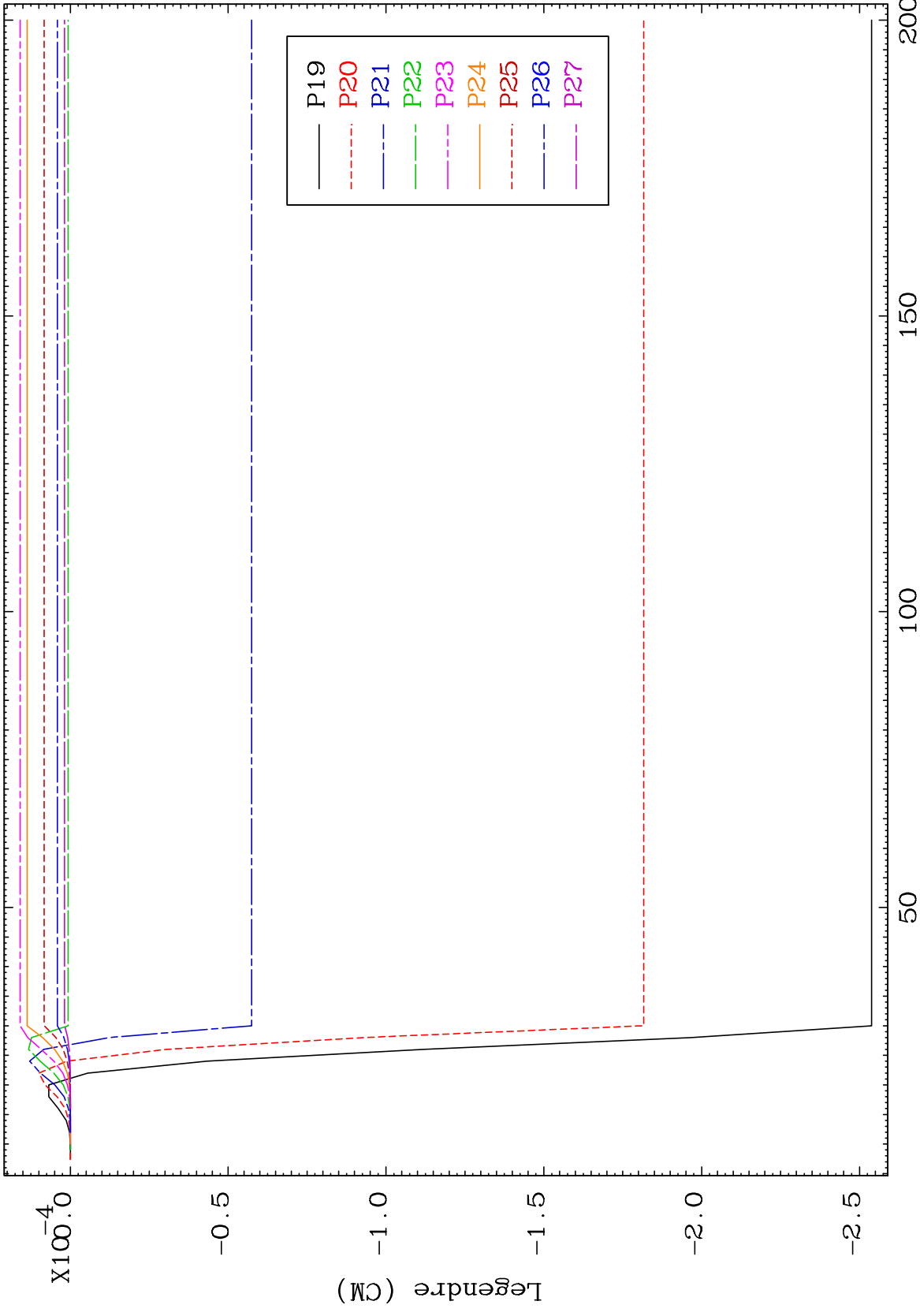


85

Incident Energy (MeV)

57-La-145

MAT 5746 MT= 67 (n,n') Level Legendre Coefficients 57-La-145

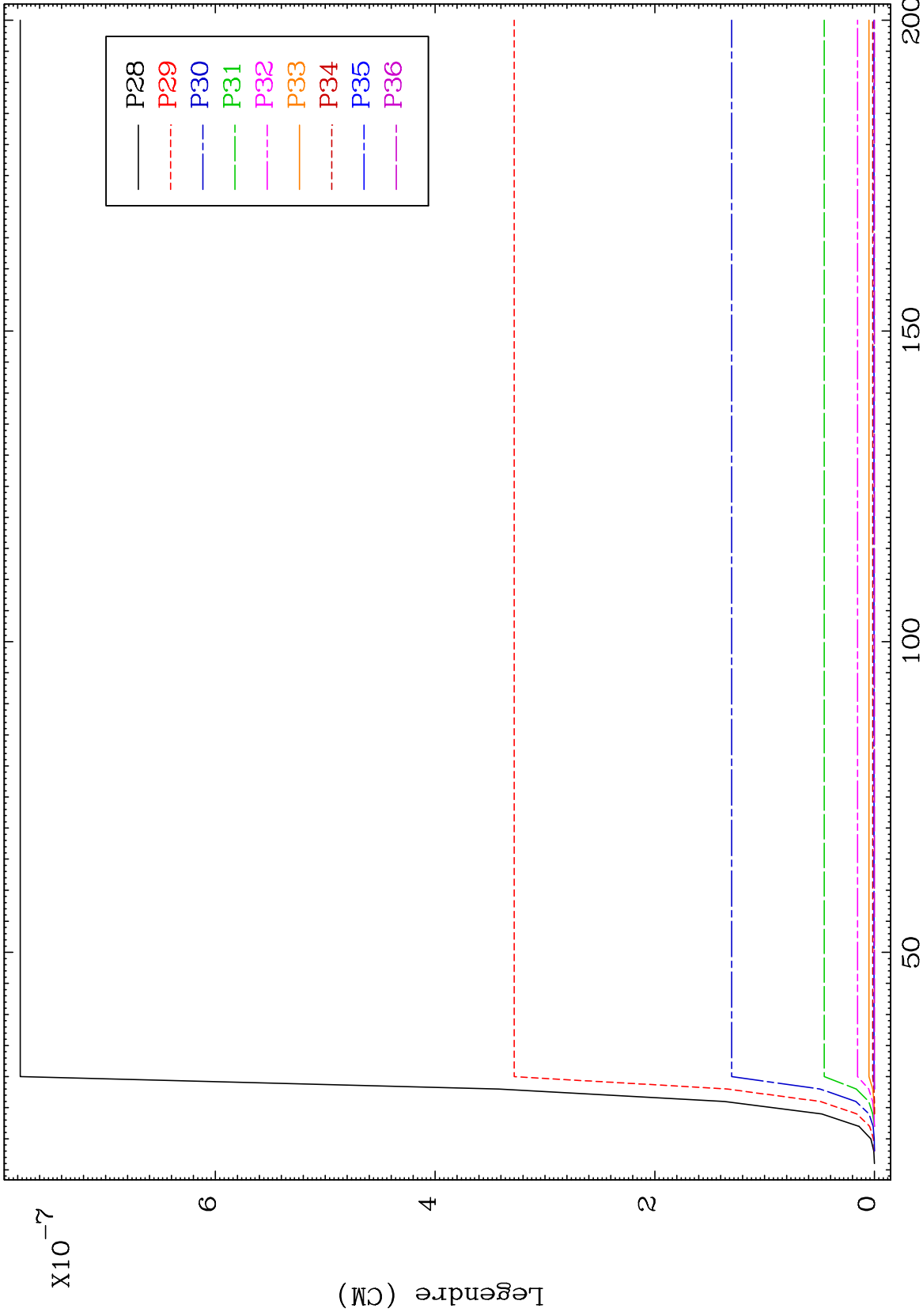


86 57-La-145

MAT 5746

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

57-La-145



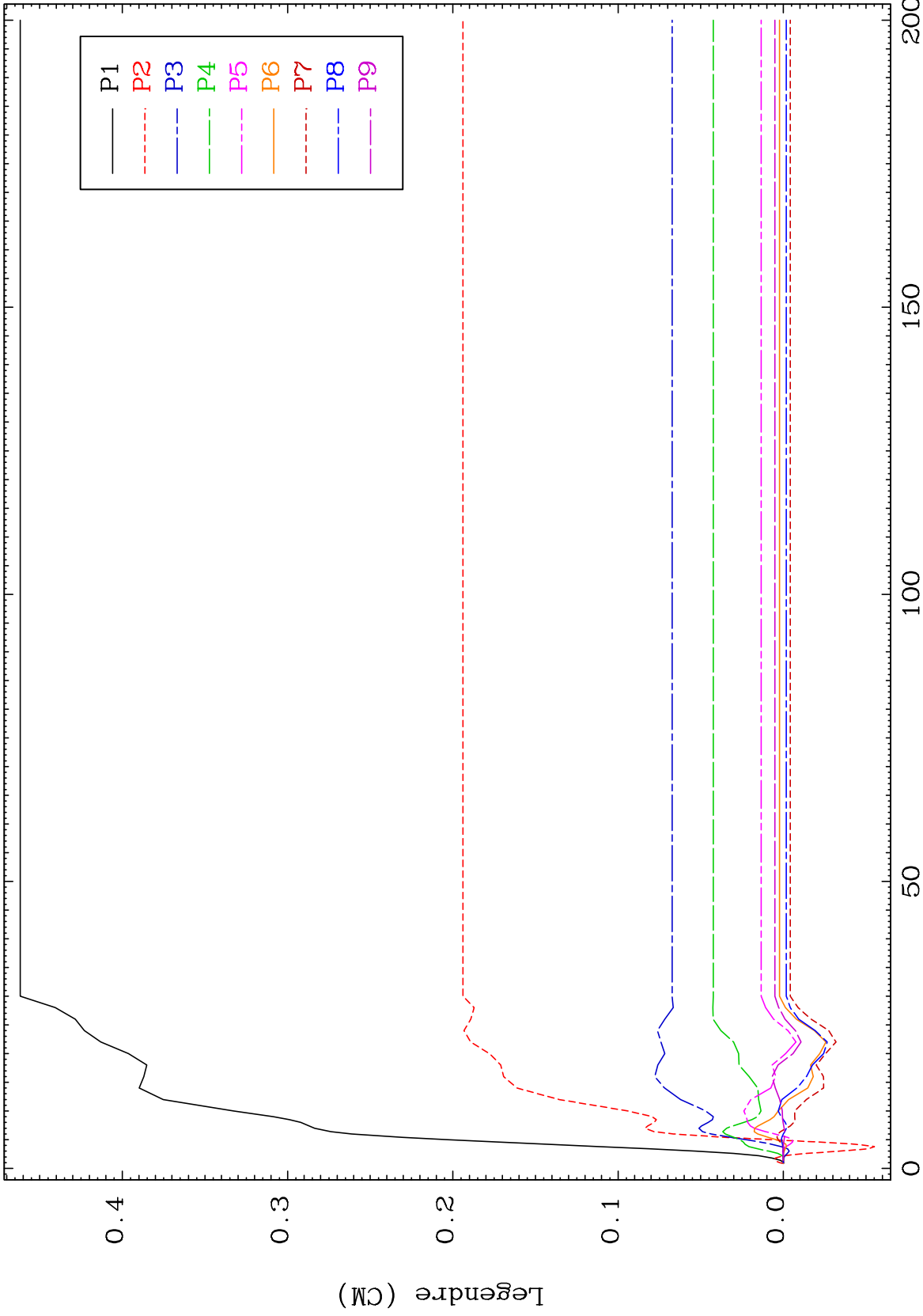
87

57-La-145

MAT 5746

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

57-La-145



88

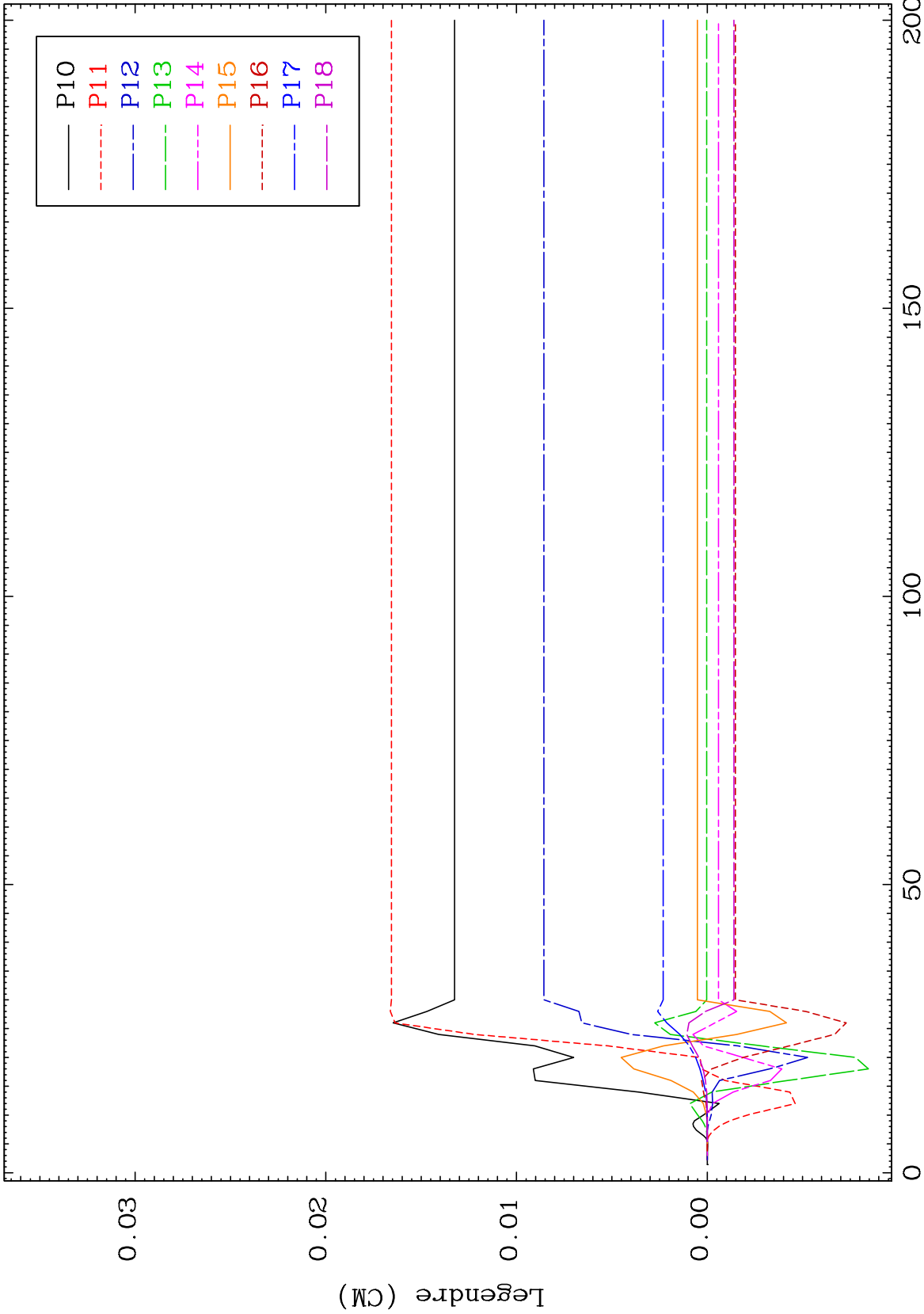
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



89

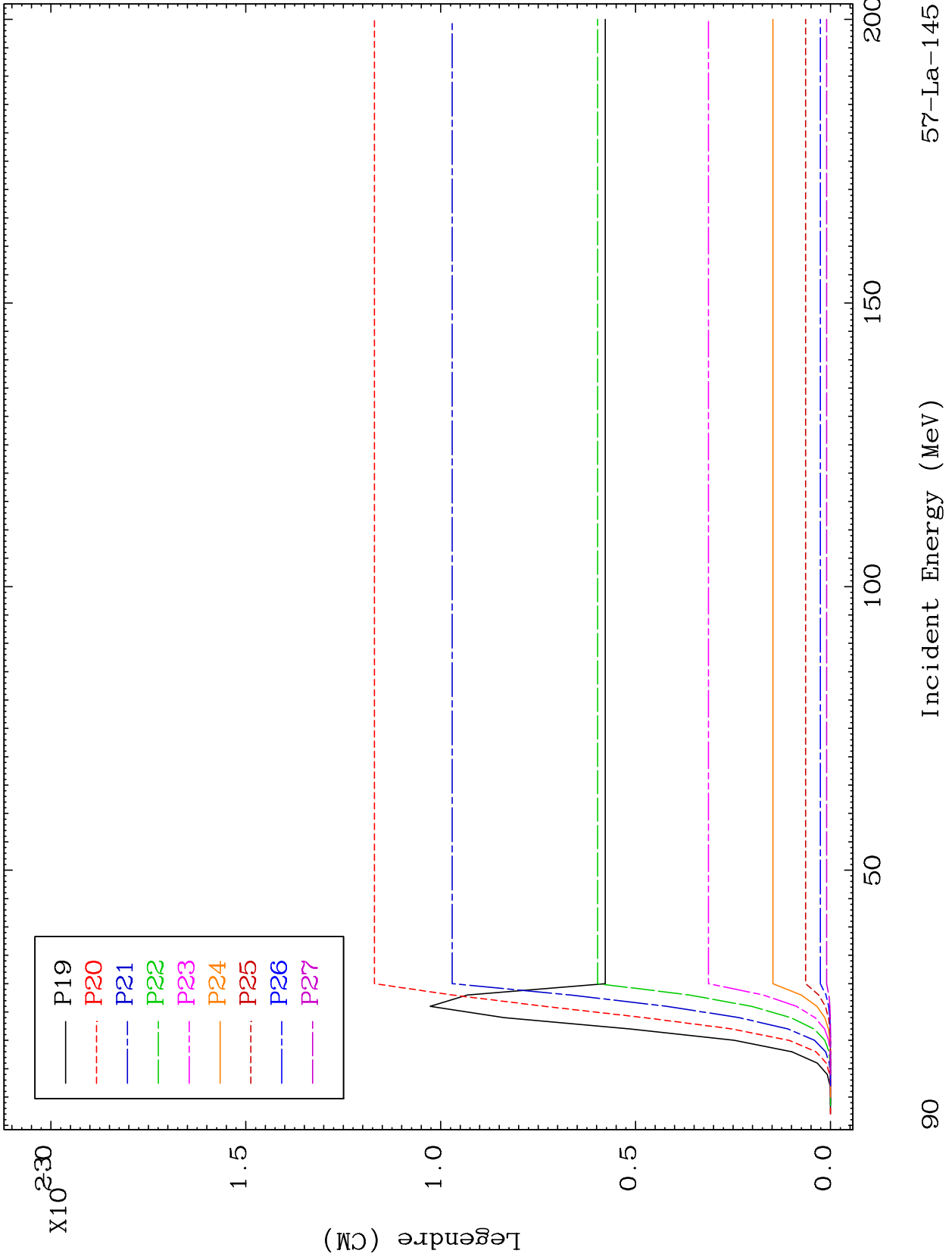
Incident Energy (MeV)

57-La-145

MAT 5746

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

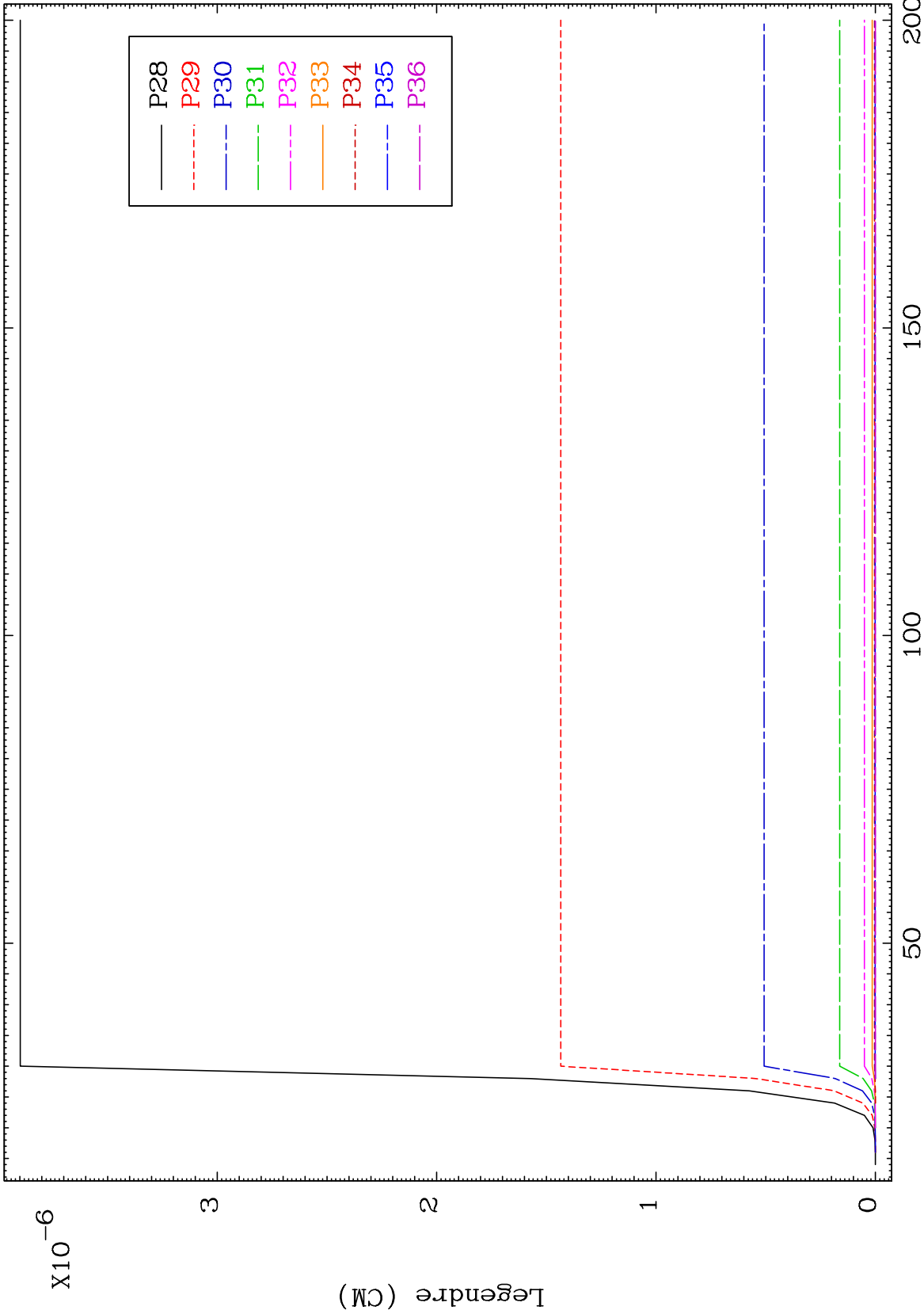
57-La-145



MAT 5746

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

57-La-145



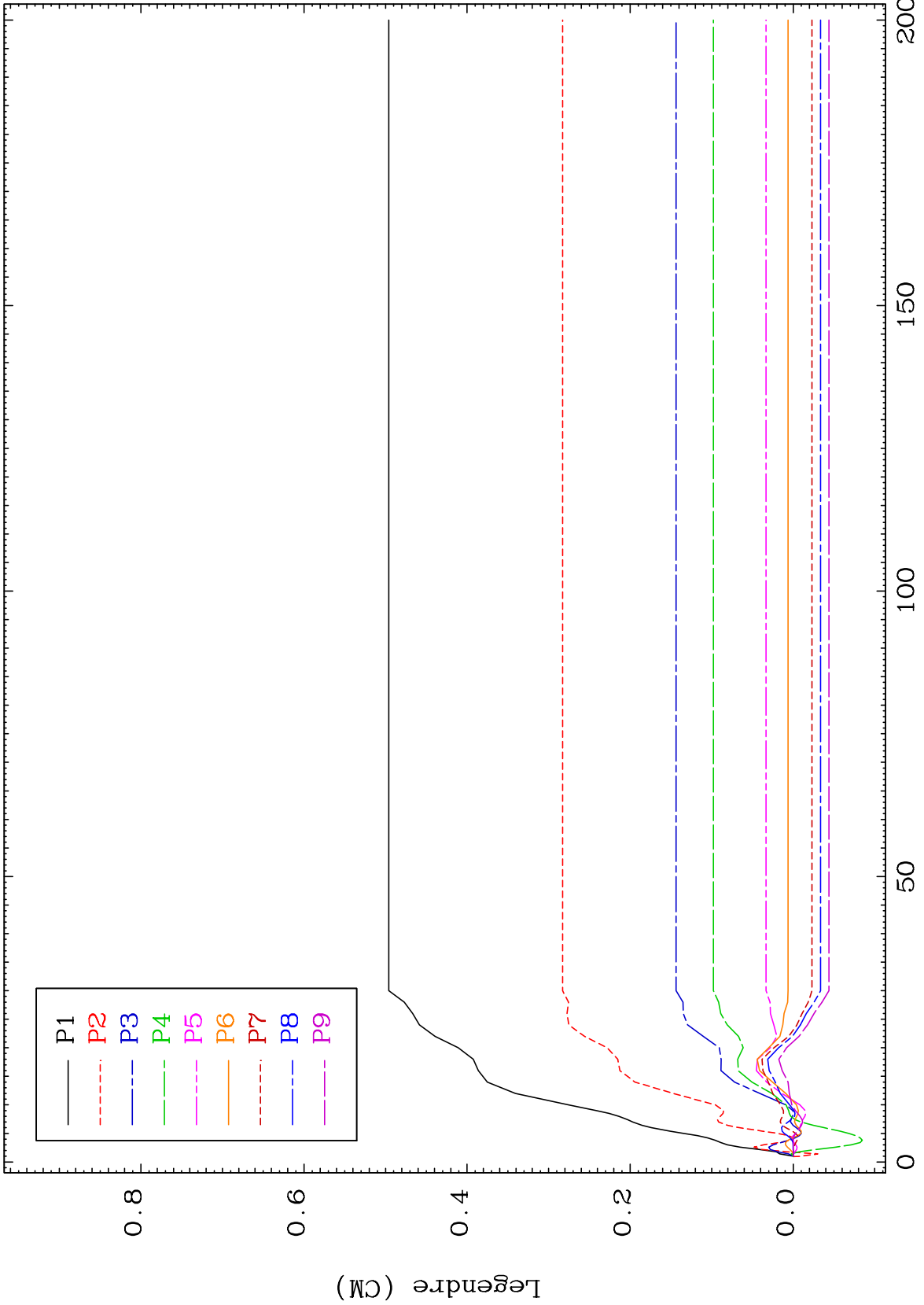
91

57-La-145

MAT 5746

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

57-La-145



92

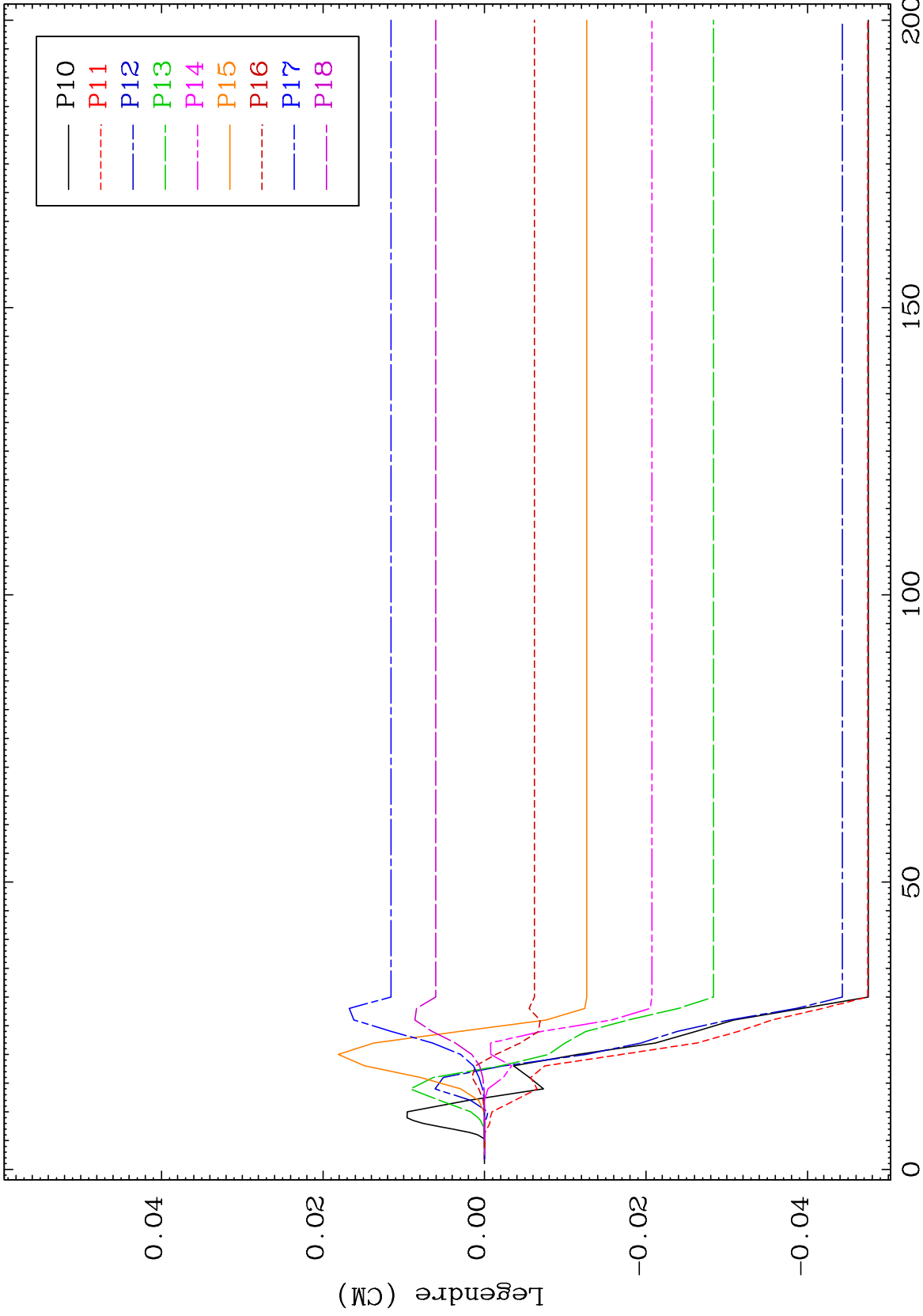
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



93

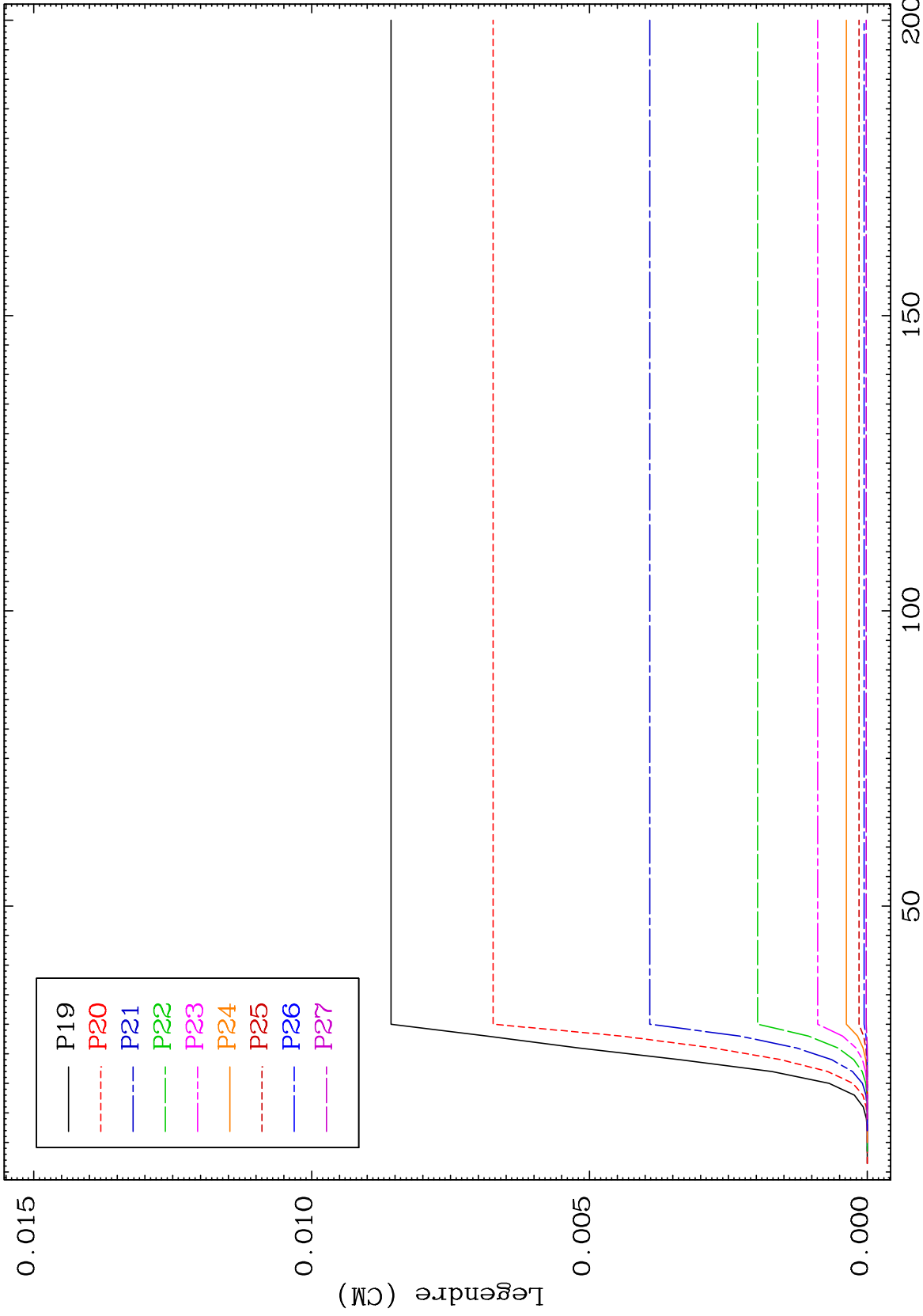
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



94

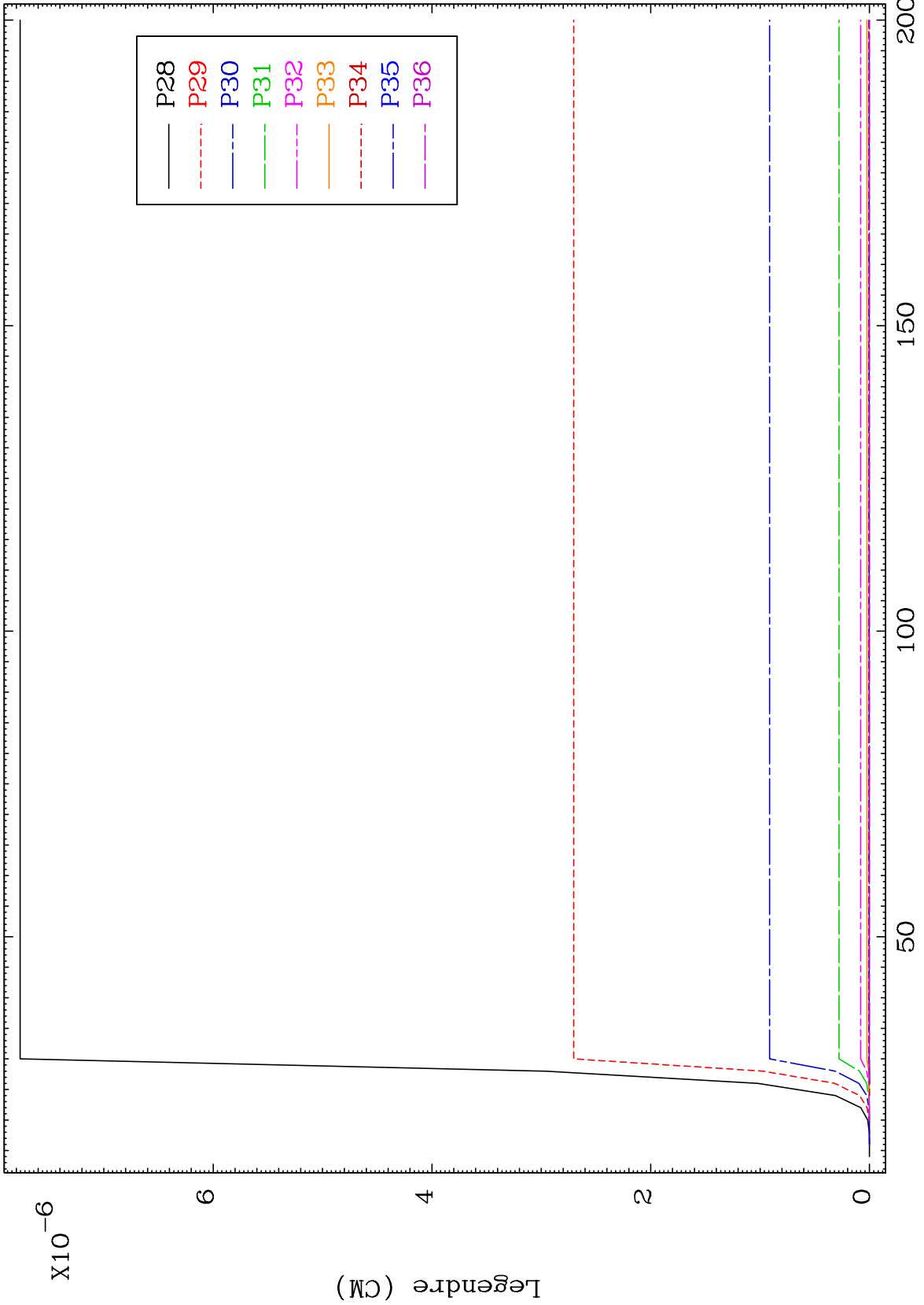
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



95

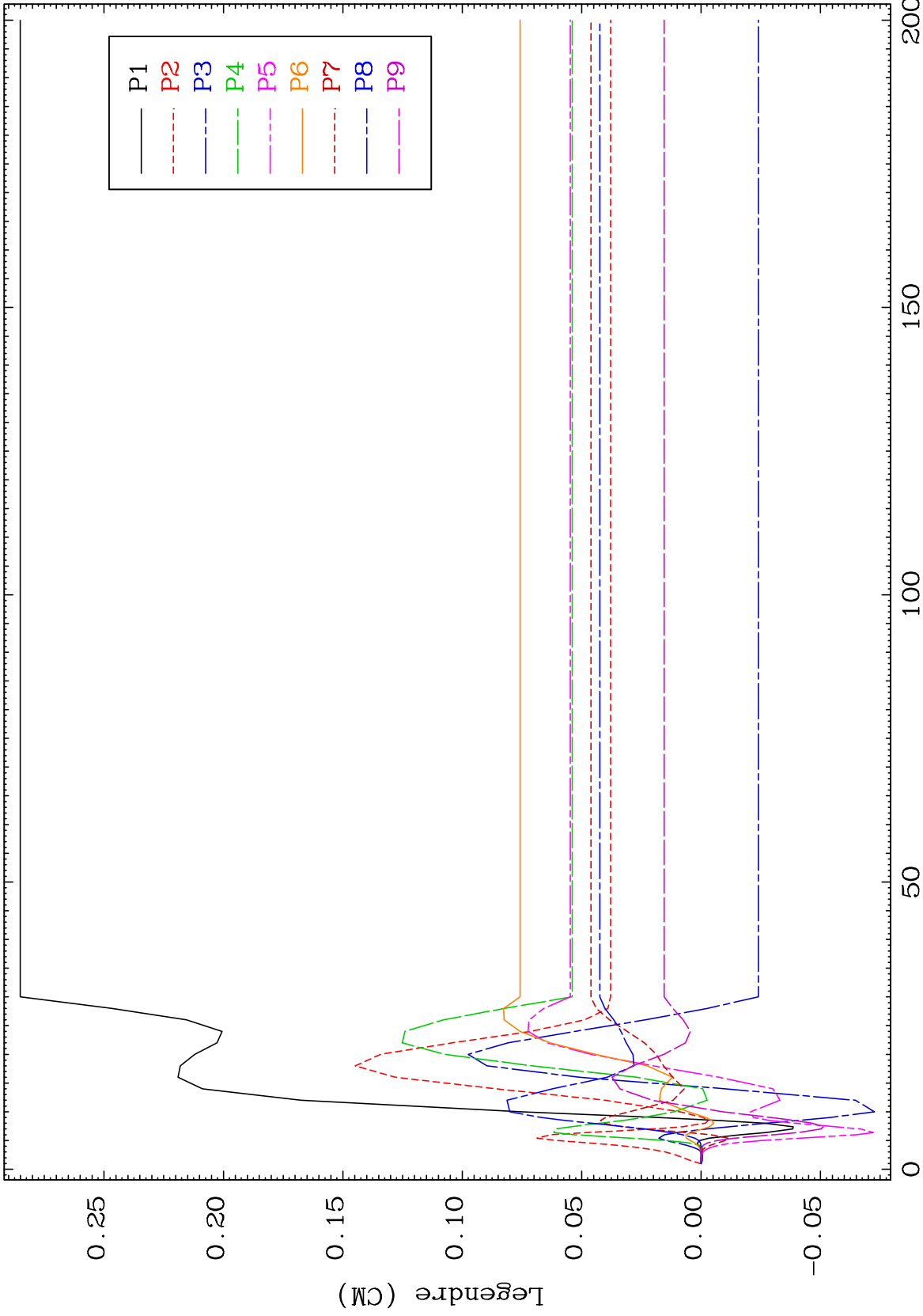
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



96

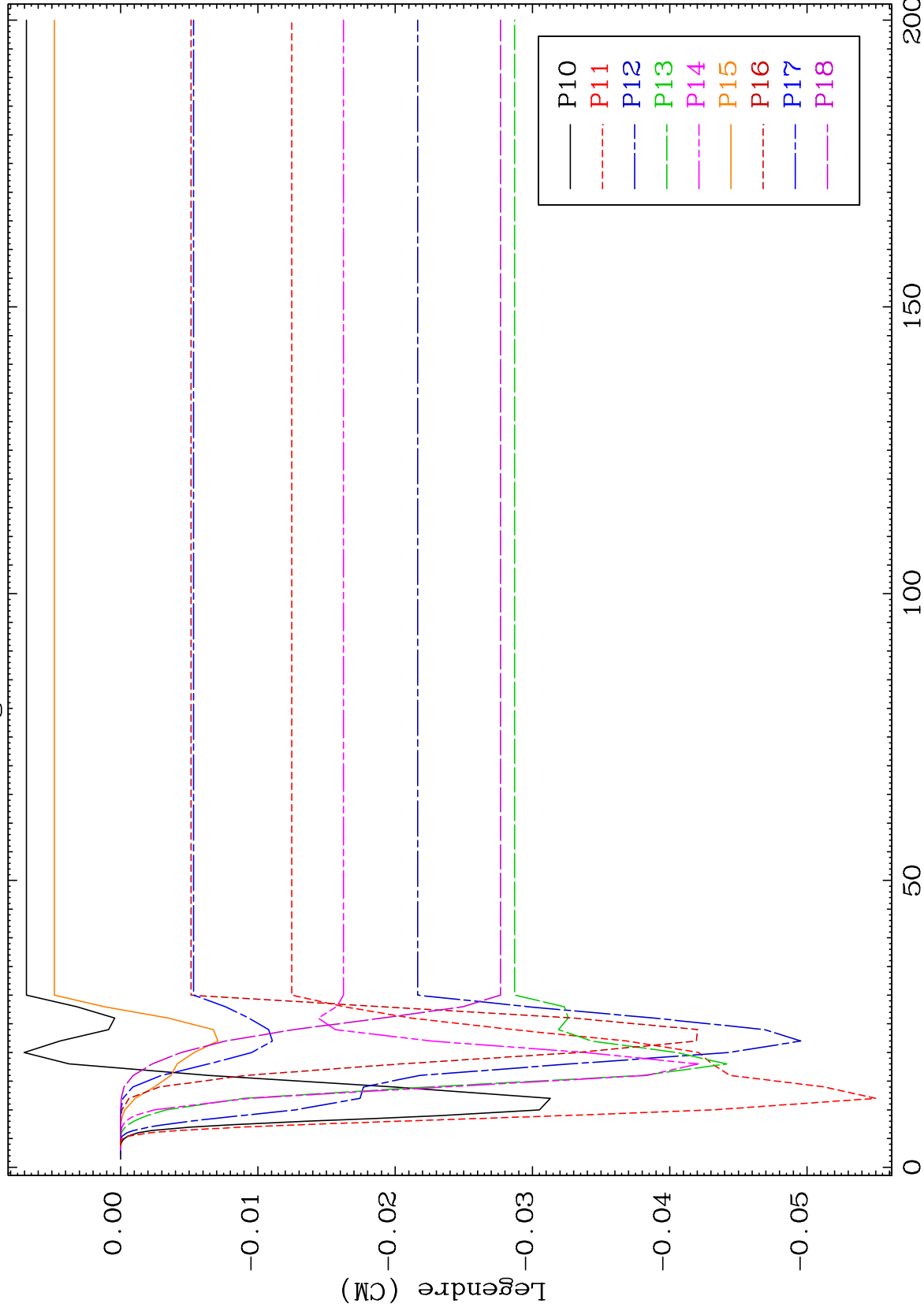
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145

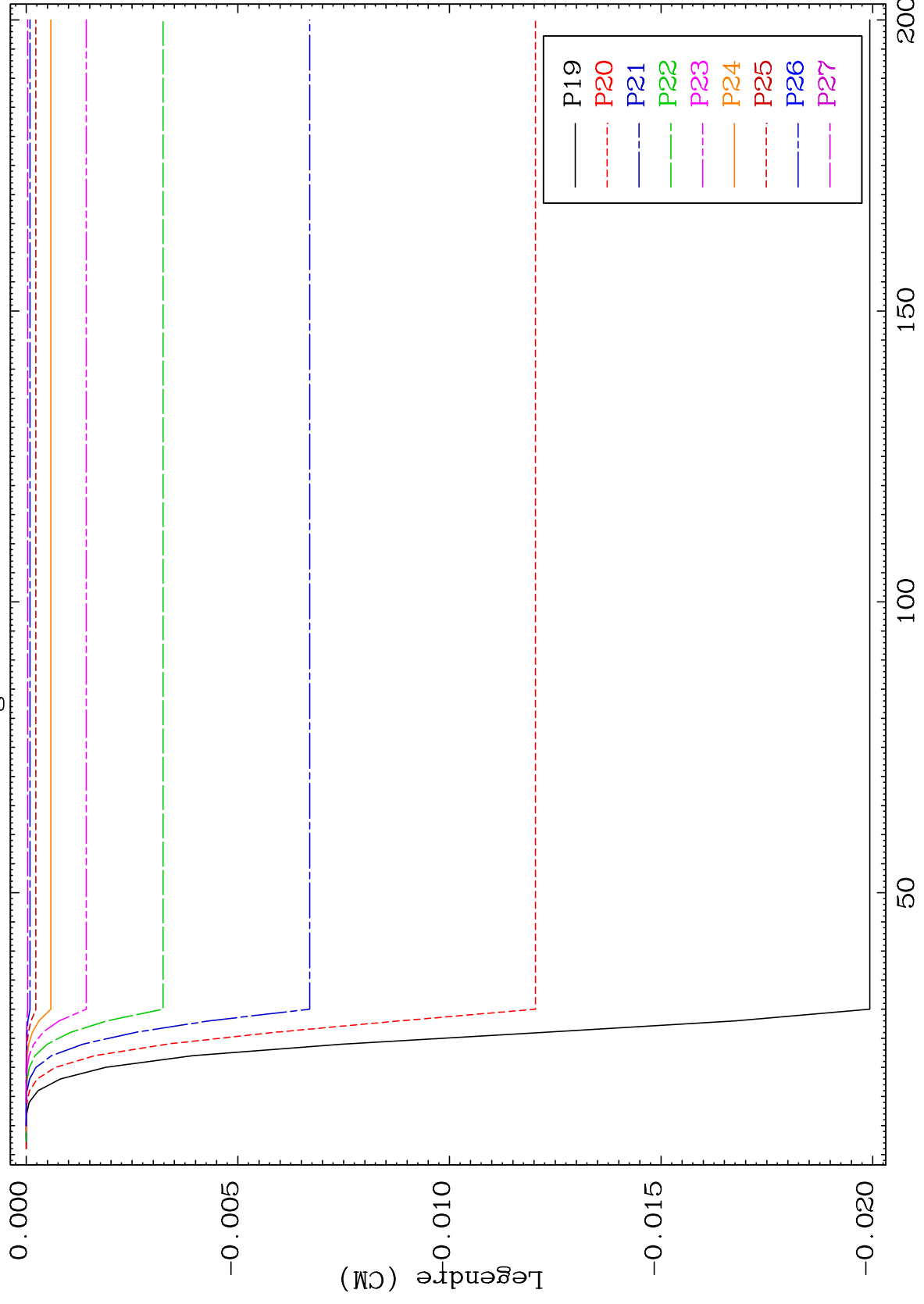


97

Incident Energy (MeV)

57-La-145

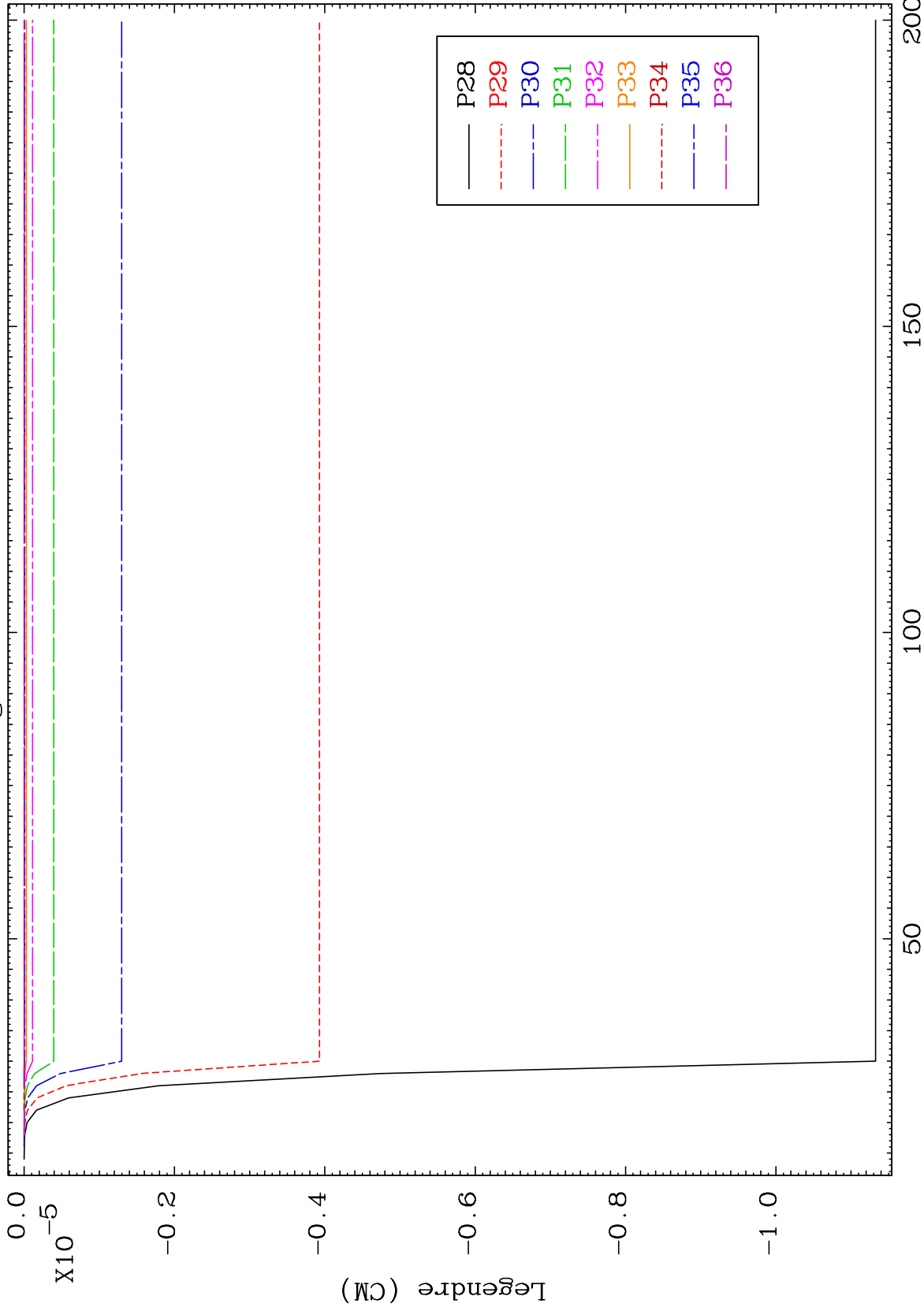
MAT 5746 MT= 70 (n,n') Level Legendre Coefficients 57-La-145



MAT 5746

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

57-La-145



99

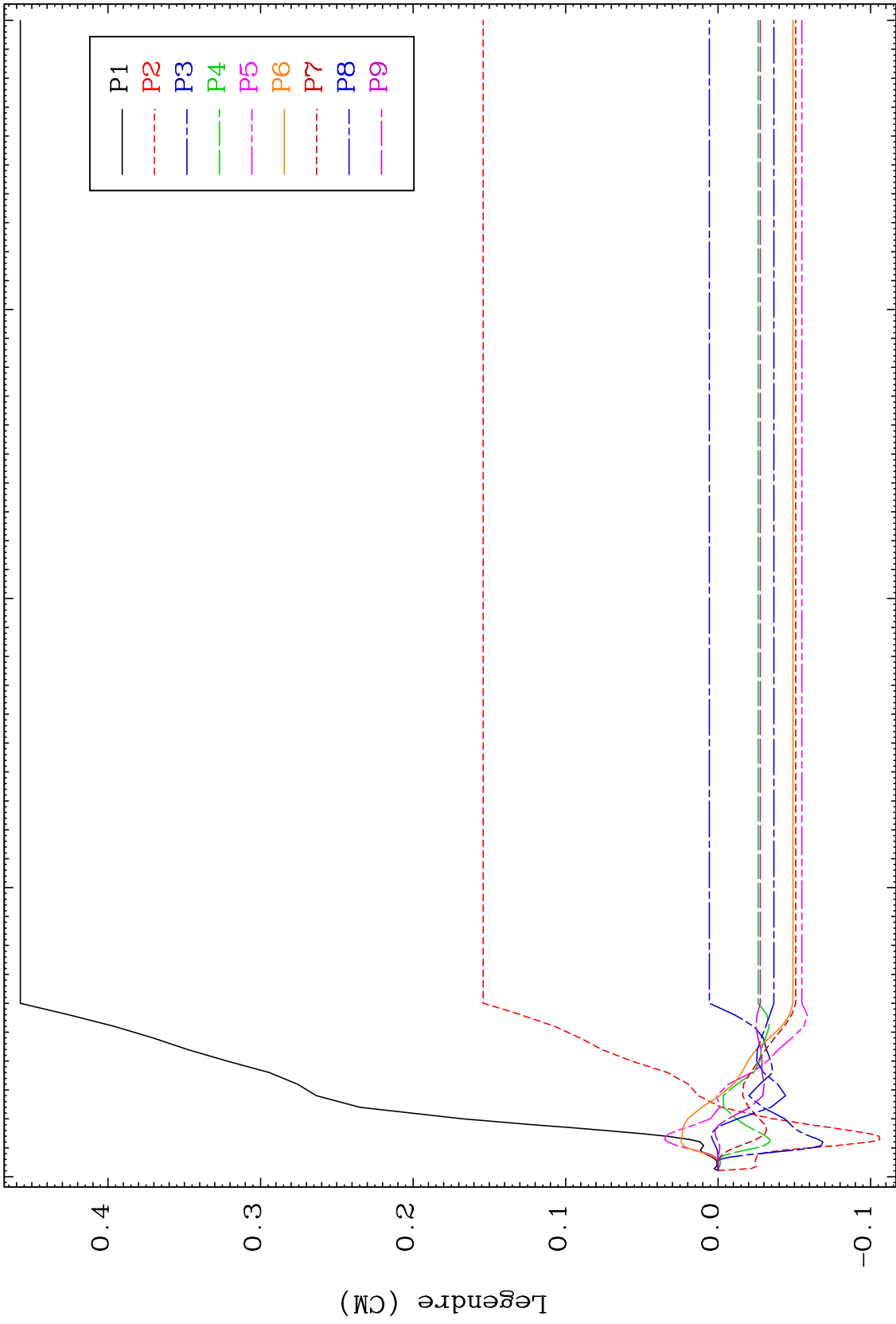
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



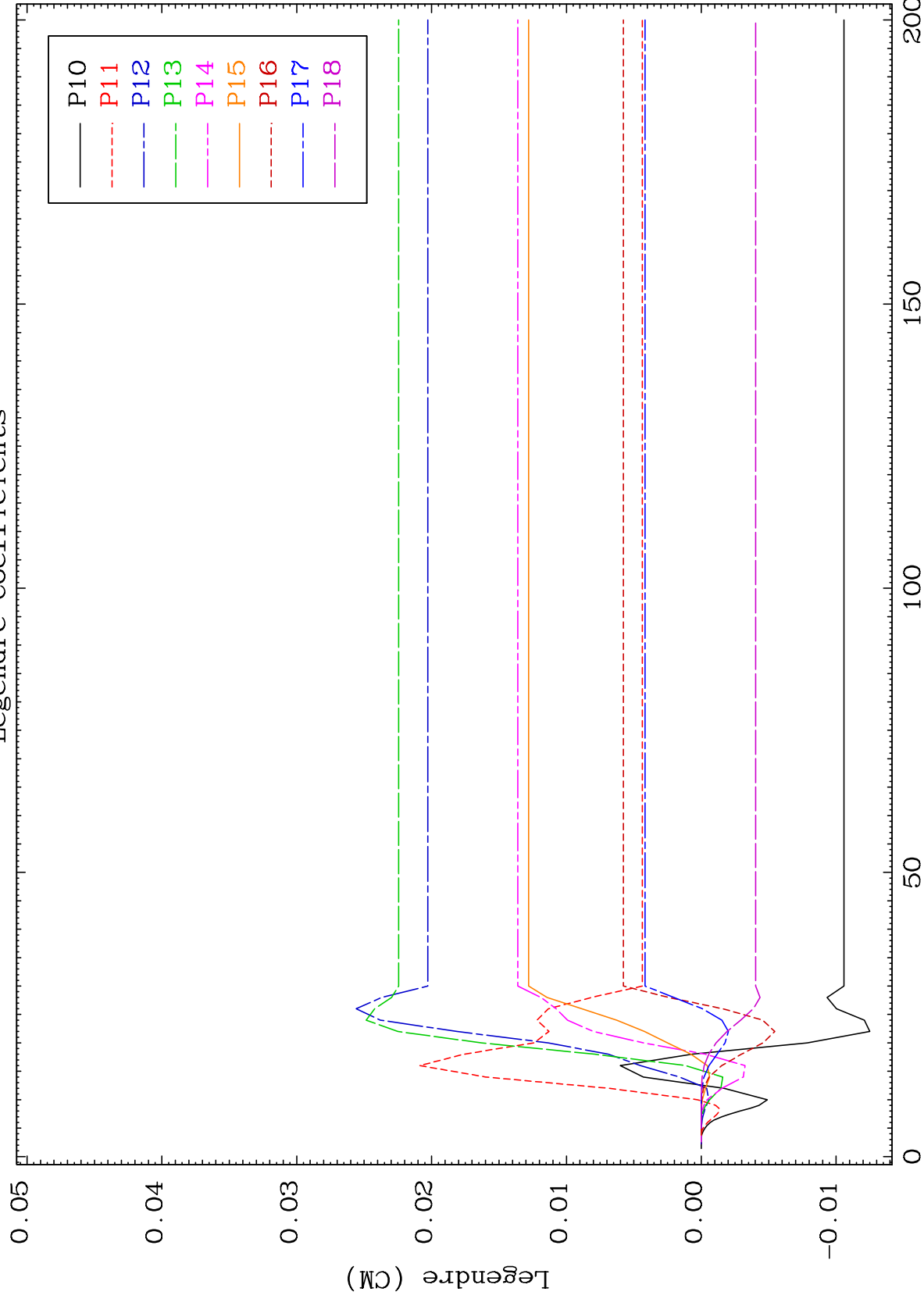
57-La-145

Incident Energy (MeV)

MAT 5746

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

57-La-145



101

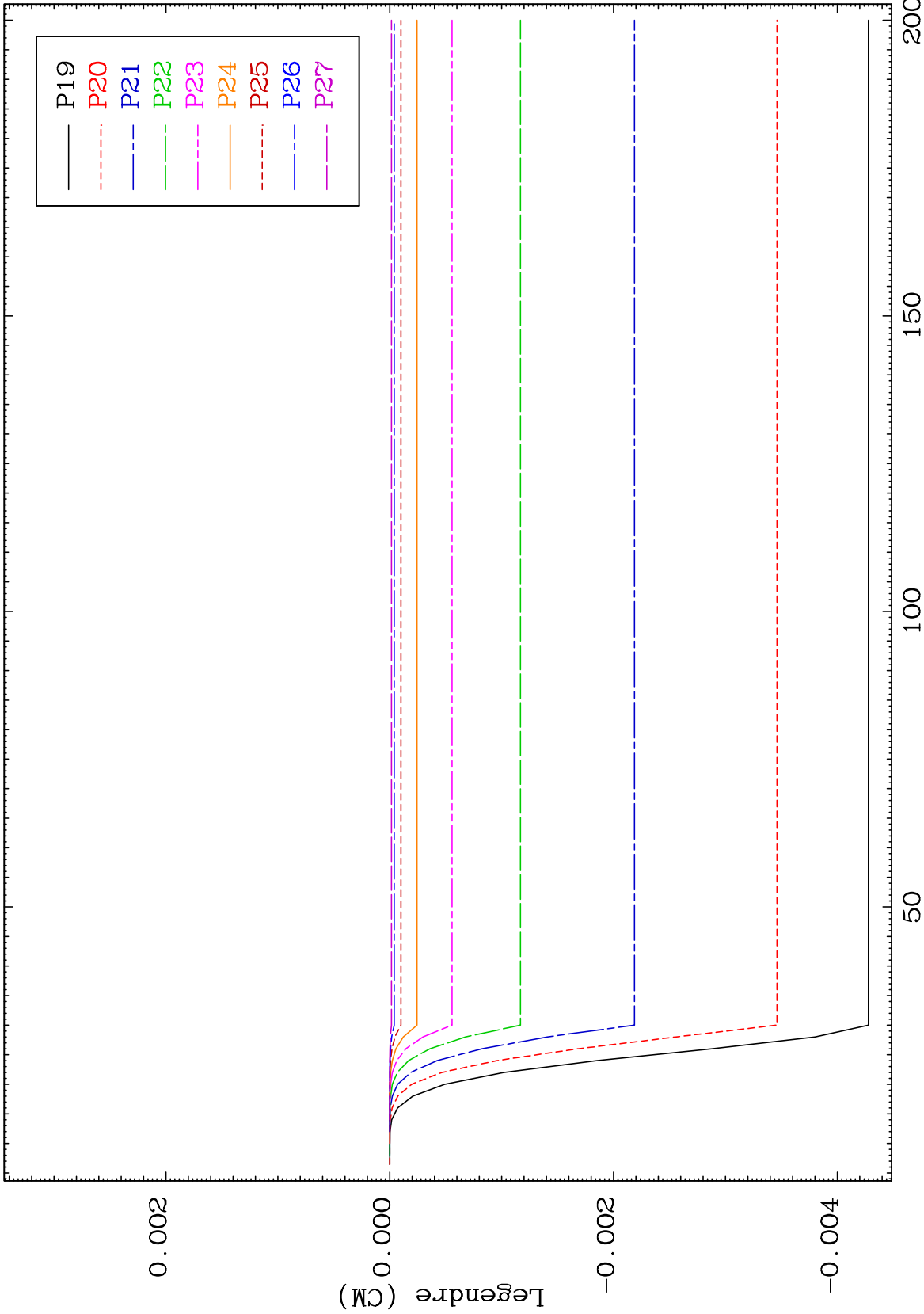
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145

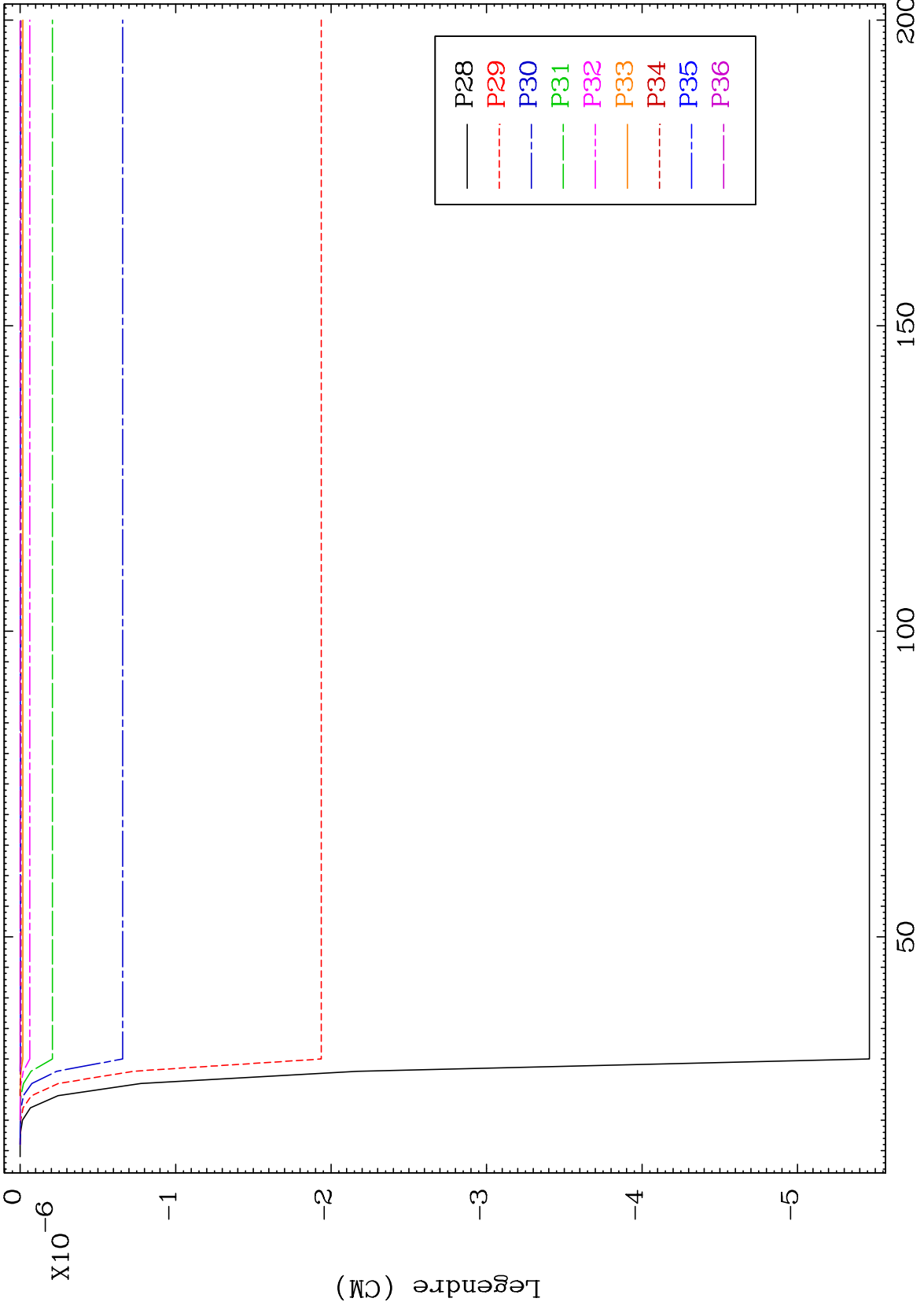


102

Incident Energy (MeV)

57-La-145

MAT 5746 MT= 71 (n,n') Level Legendre Coefficients 57-La-145

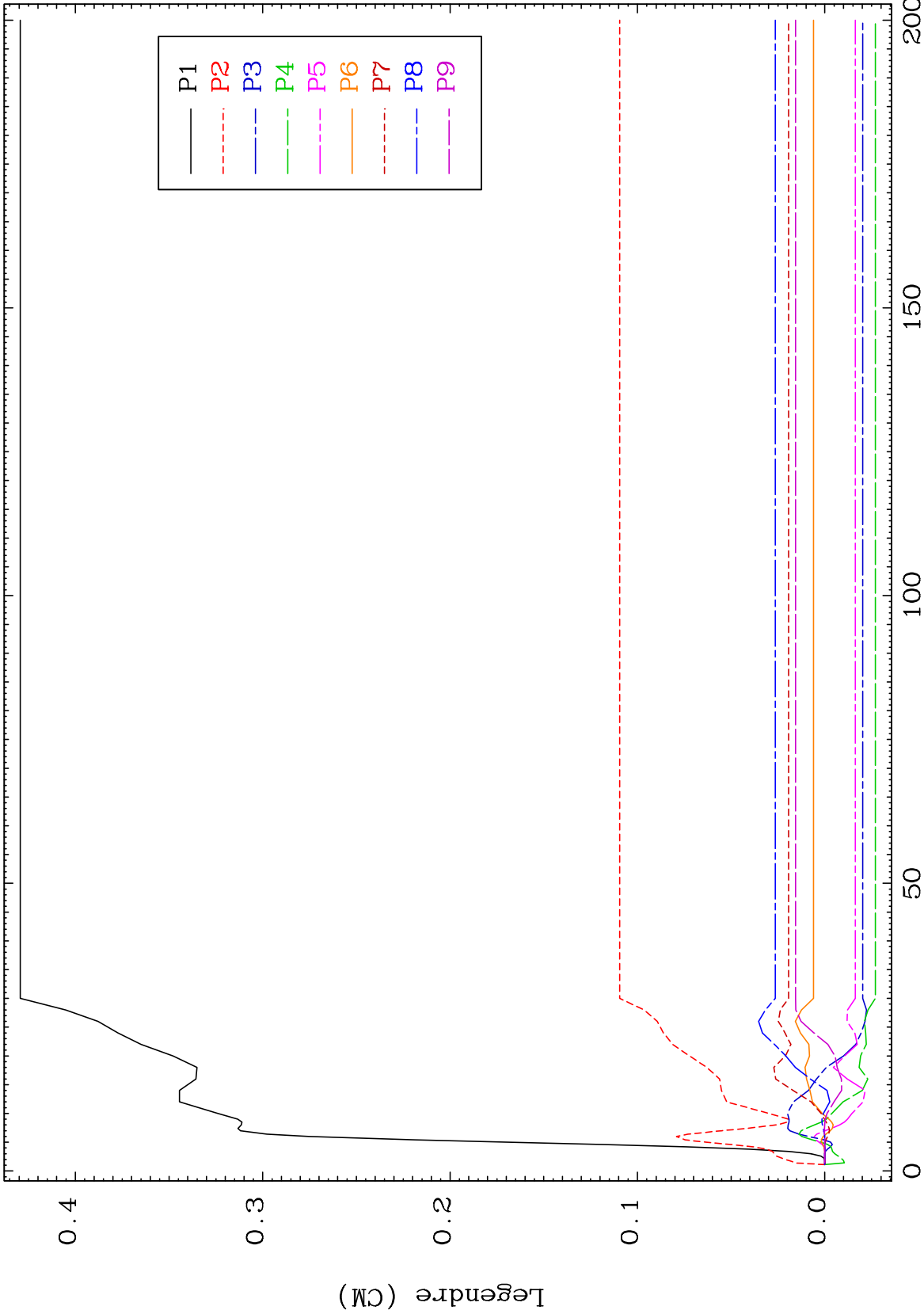


103 57-La-145

MAT 5746

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

57-La-145



57-La-145

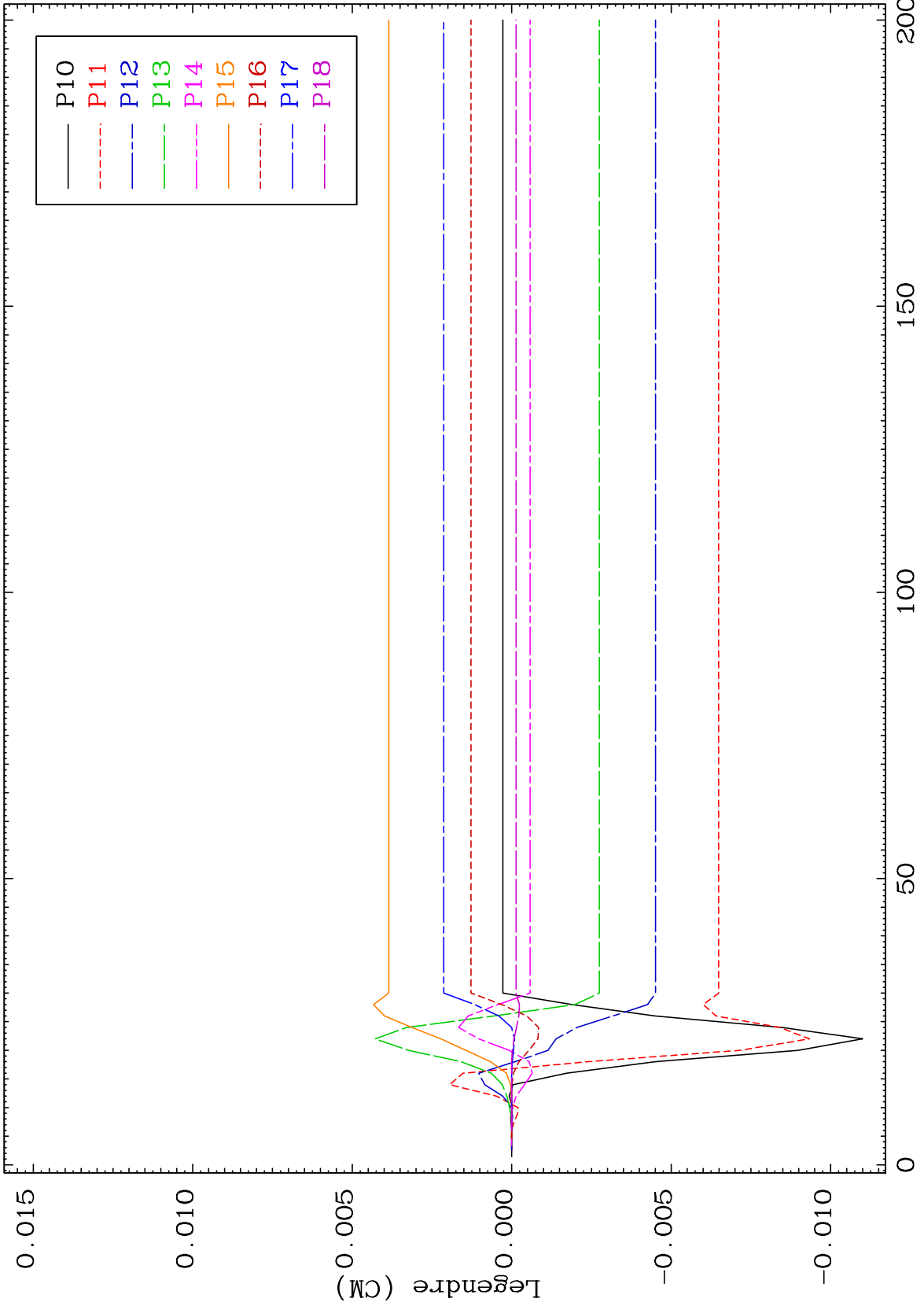
Incident Energy (MeV)

104

MAT 5746

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

57-La-145



105

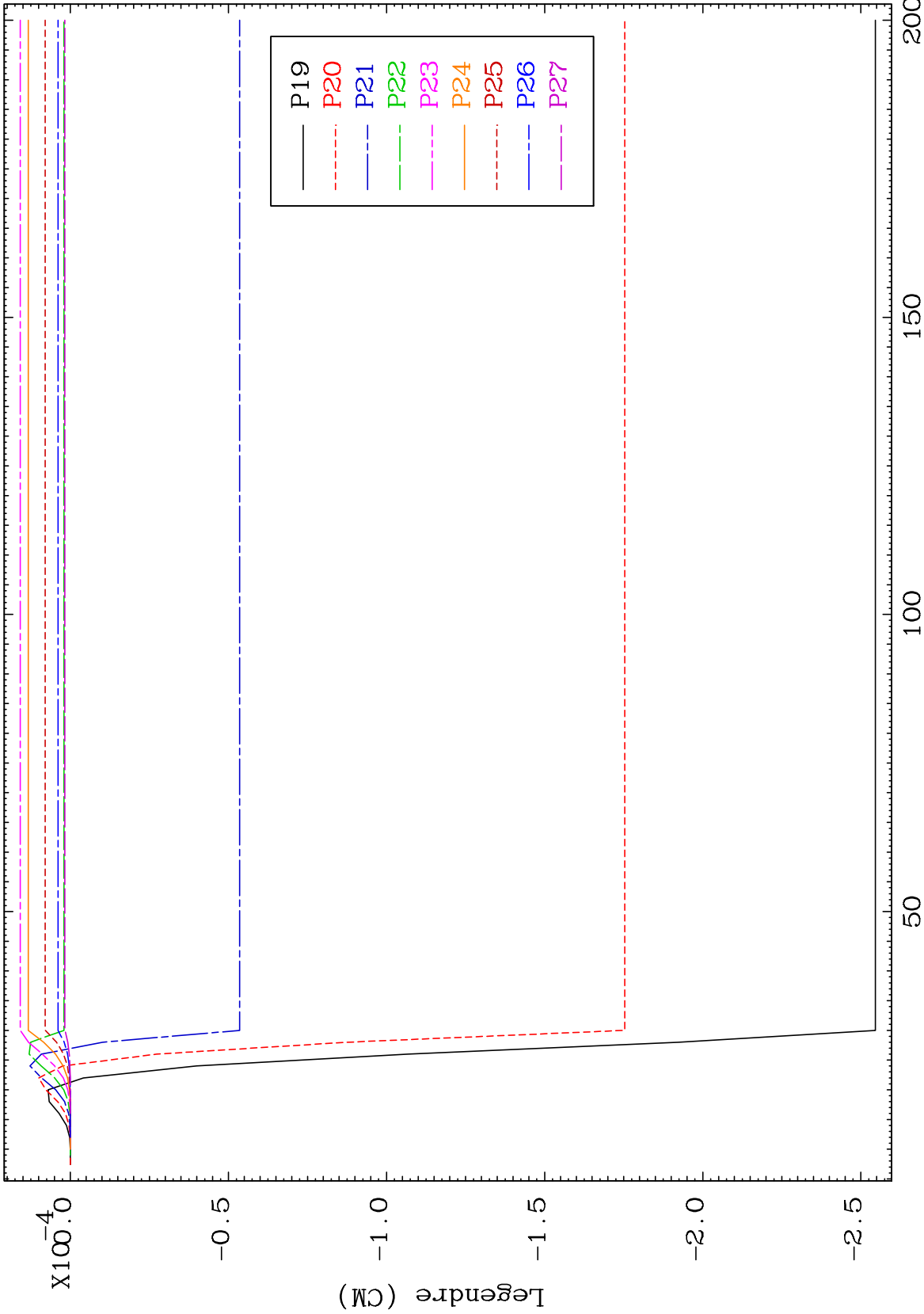
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



106

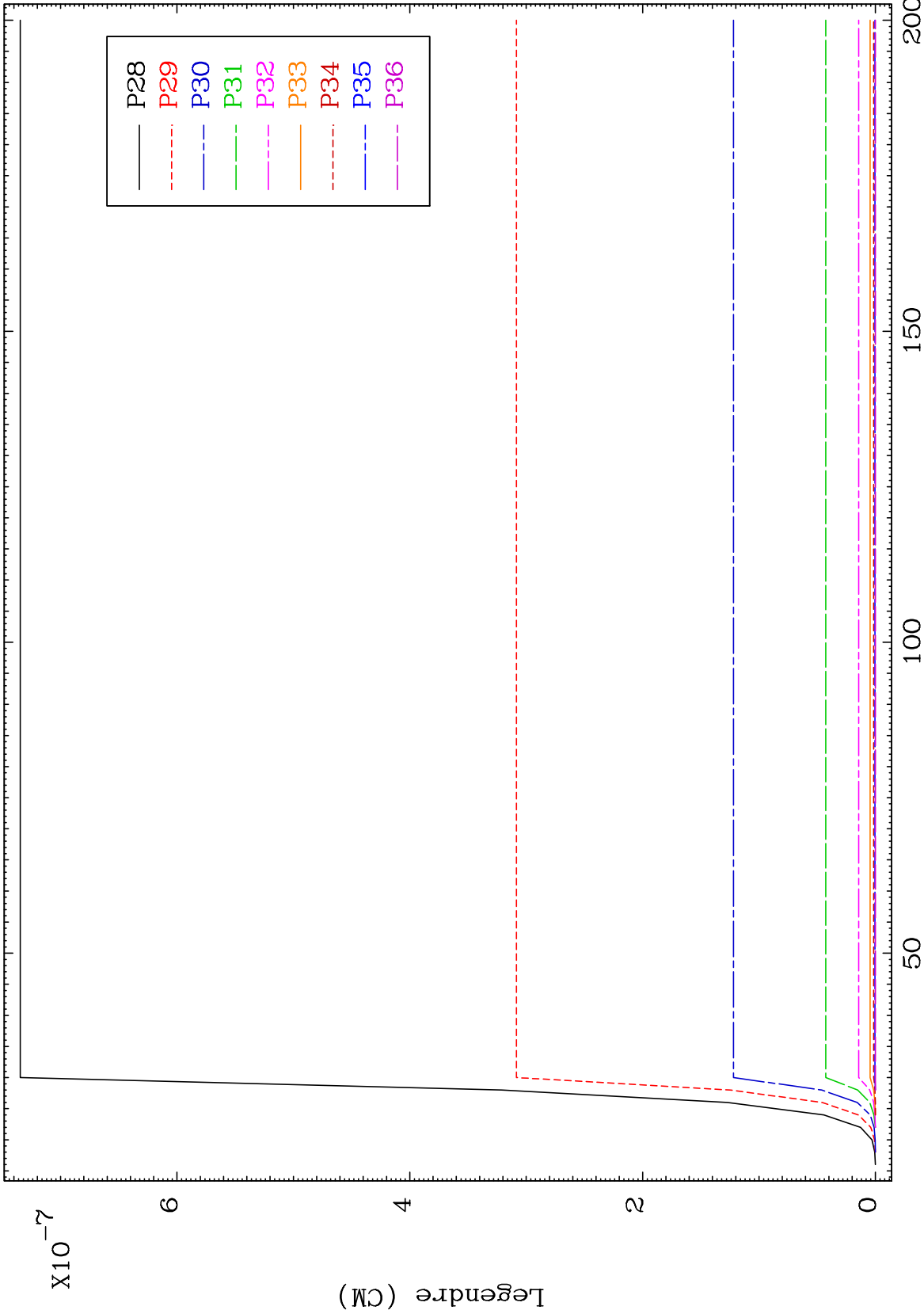
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



107

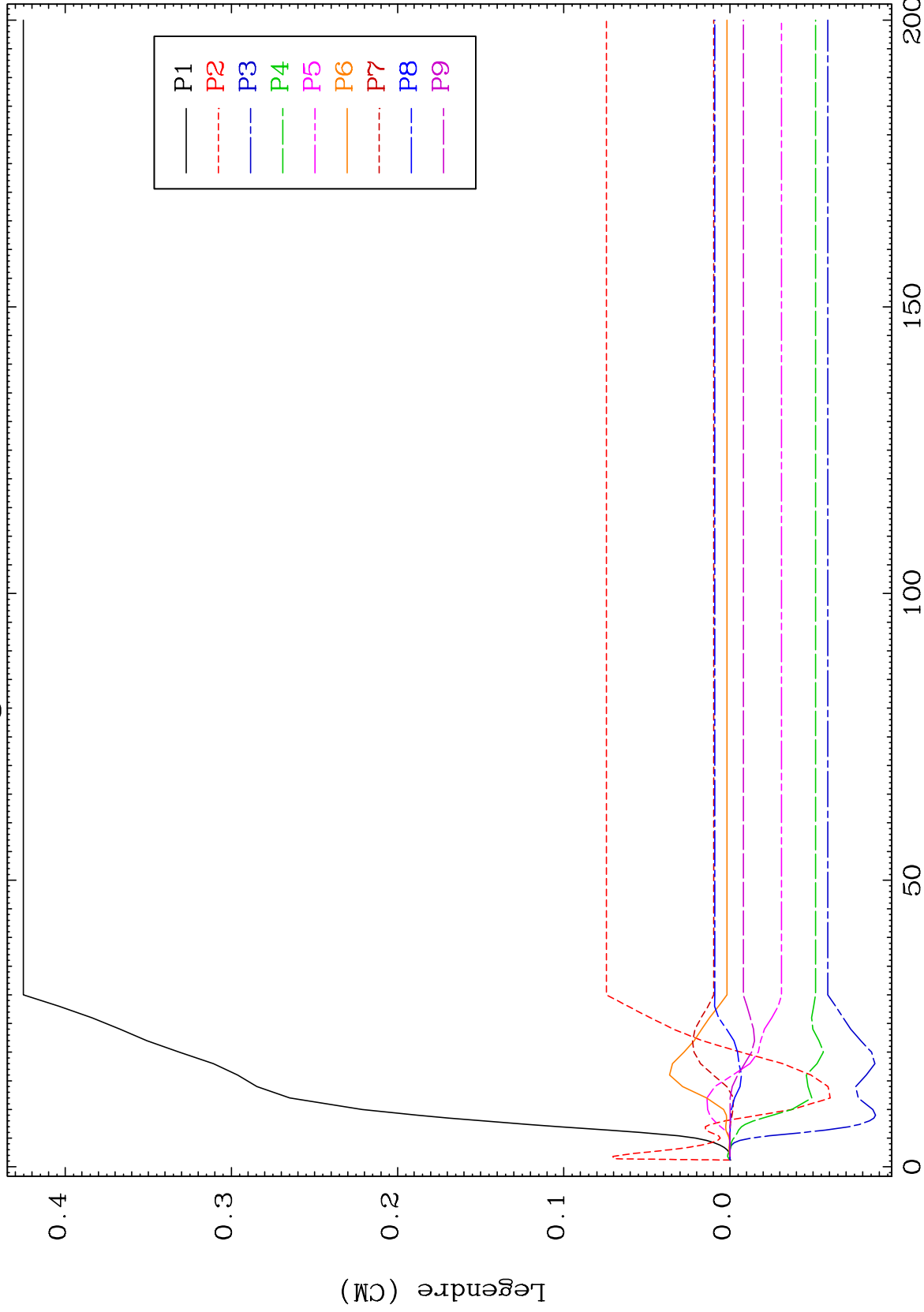
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



108

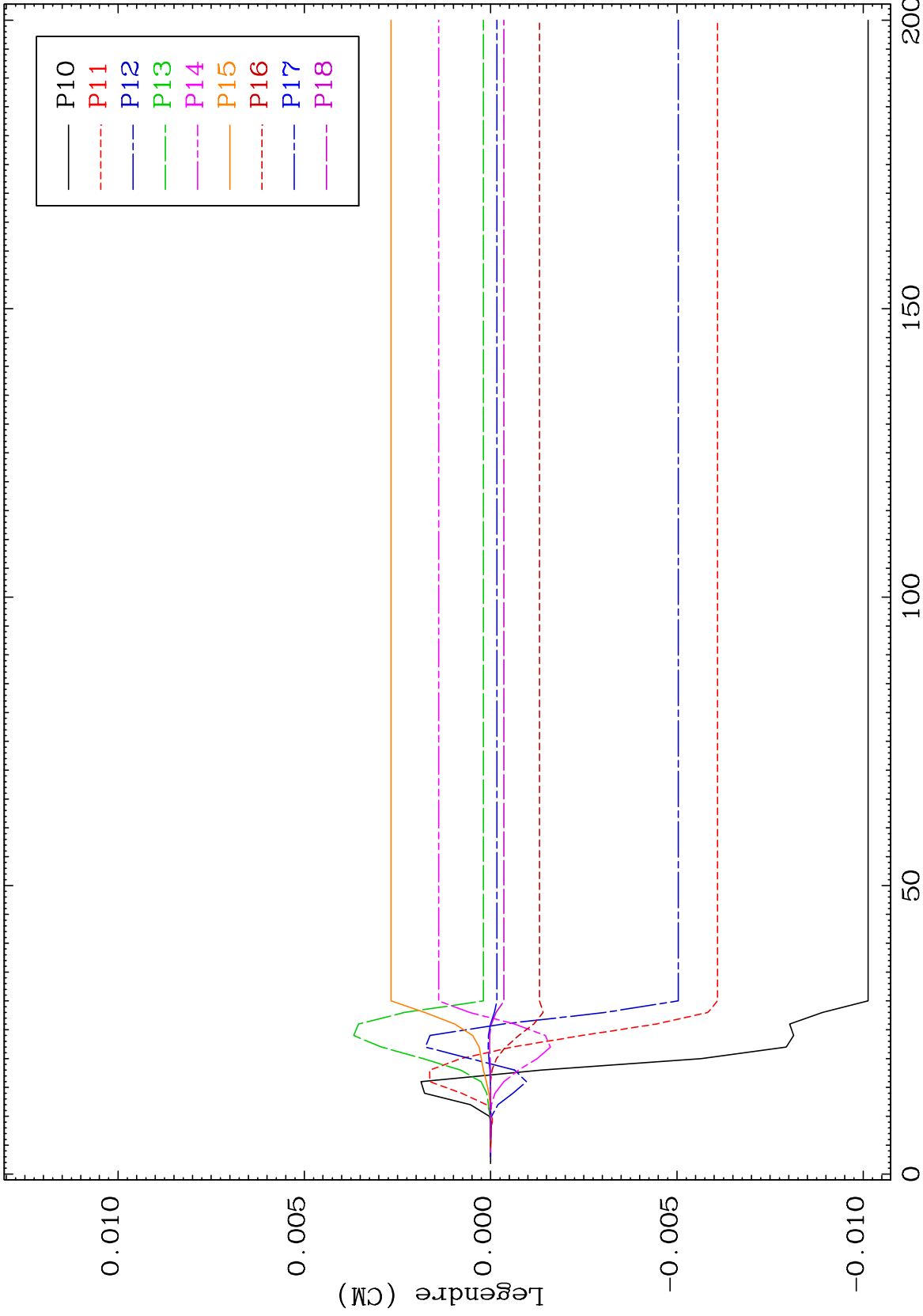
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145

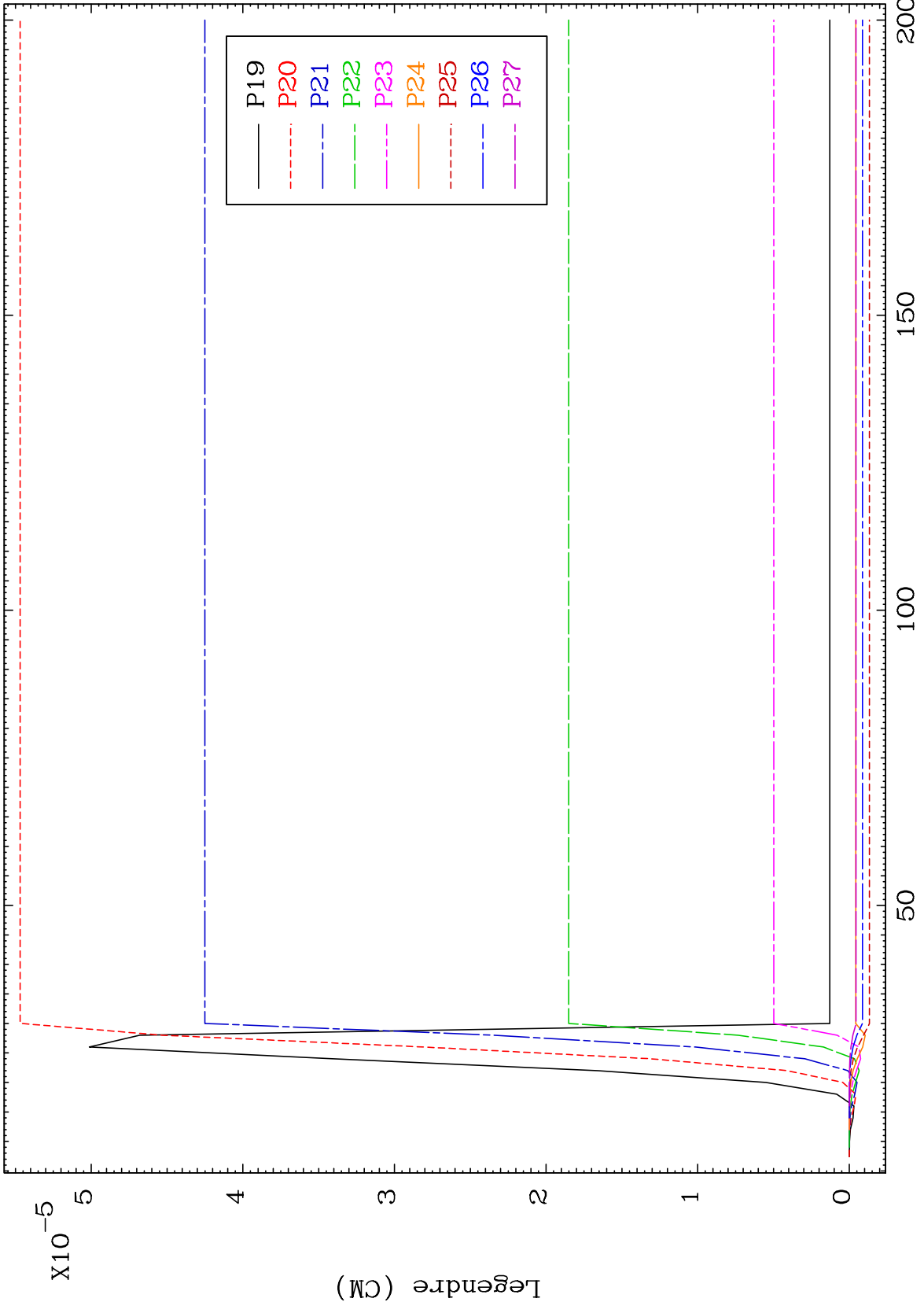


109

Incident Energy (MeV)

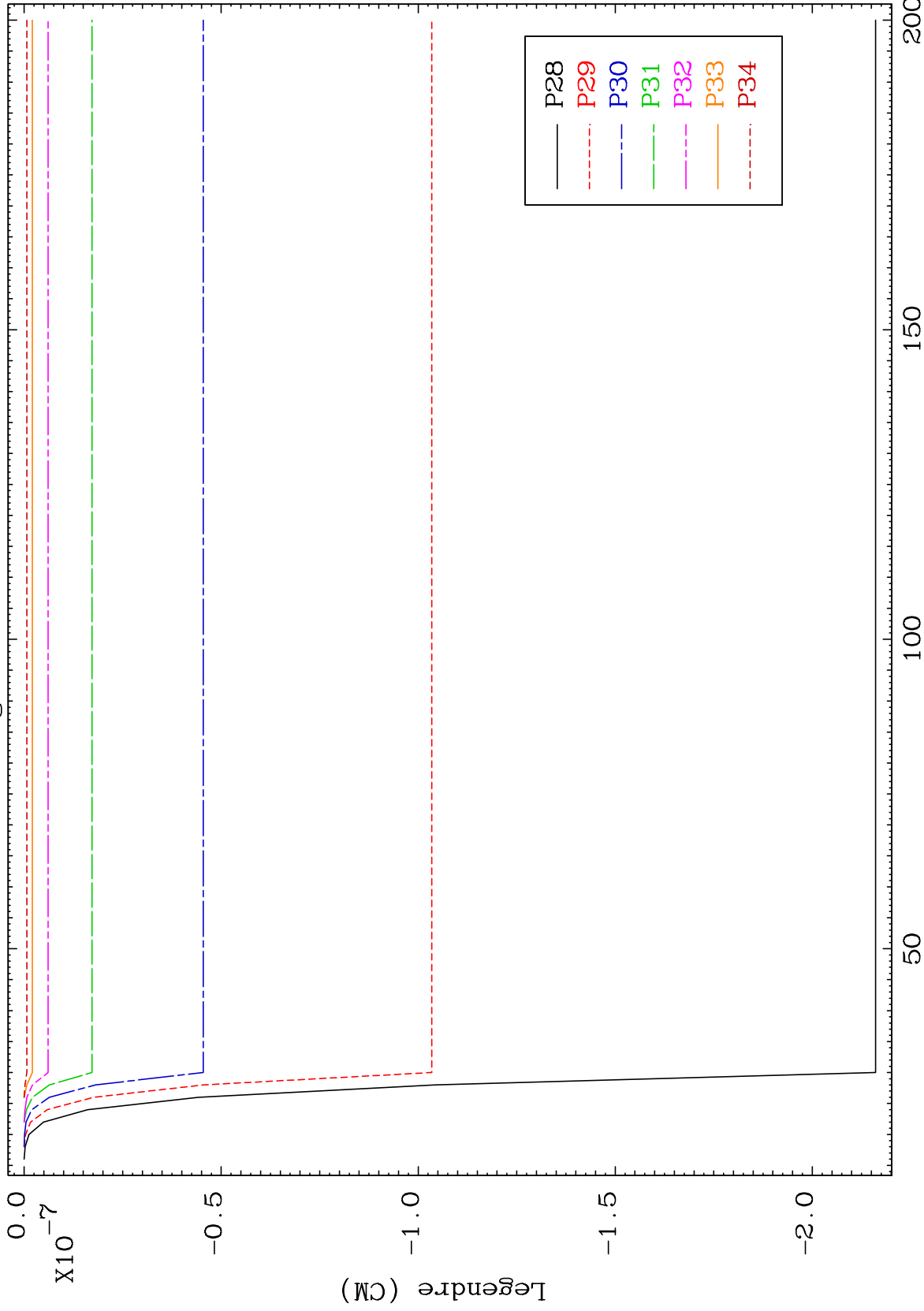
57-La-145

MAT 5746 MT= 73 (n,n') Level Legendre Coefficients 57-La-145



110 50 100 150 200 57-La-145

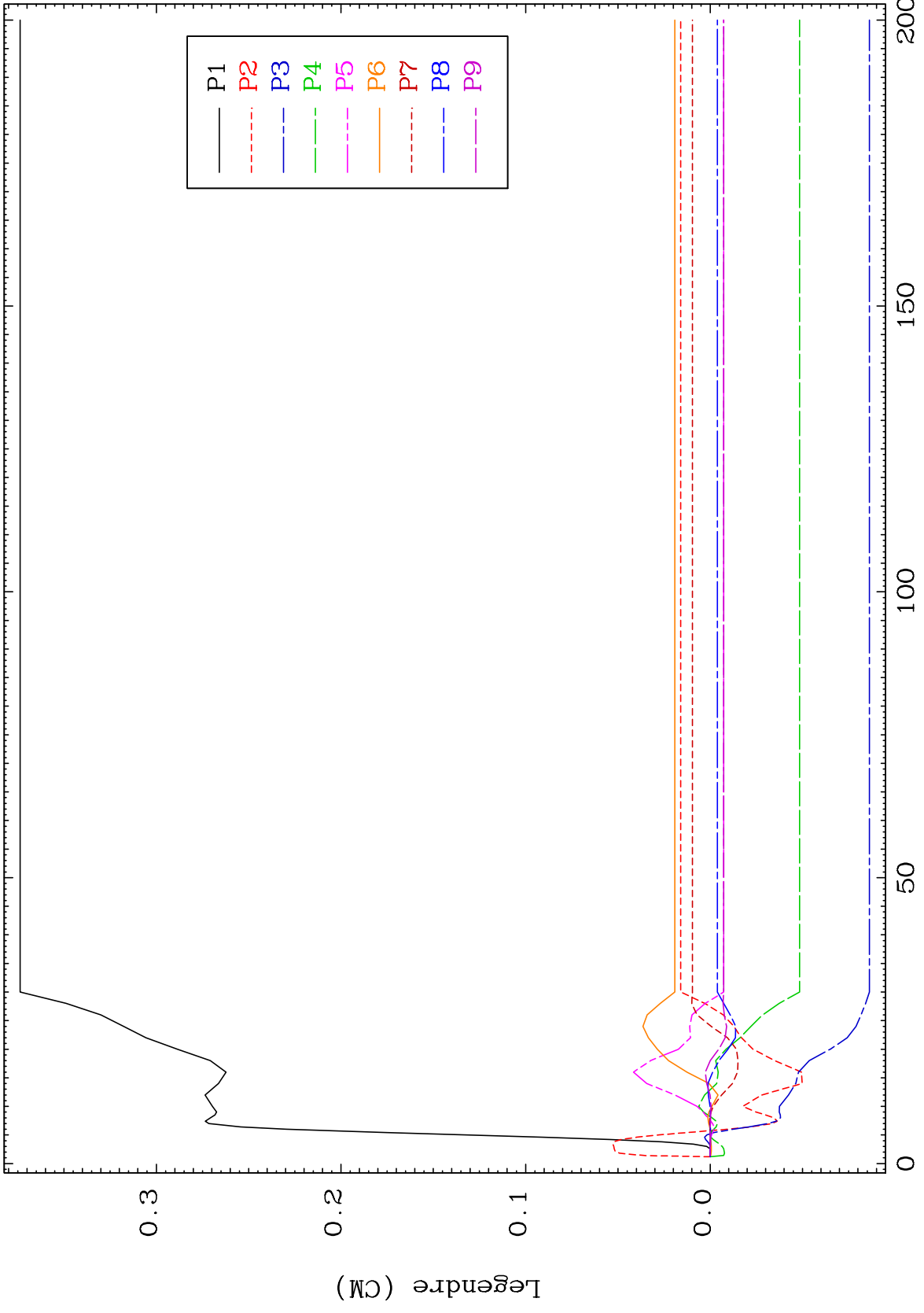
MAT 5746 MT= 73 (n,n') Level Legendre Coefficients 57-La-145



MAT 5746

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

57-La-145



112

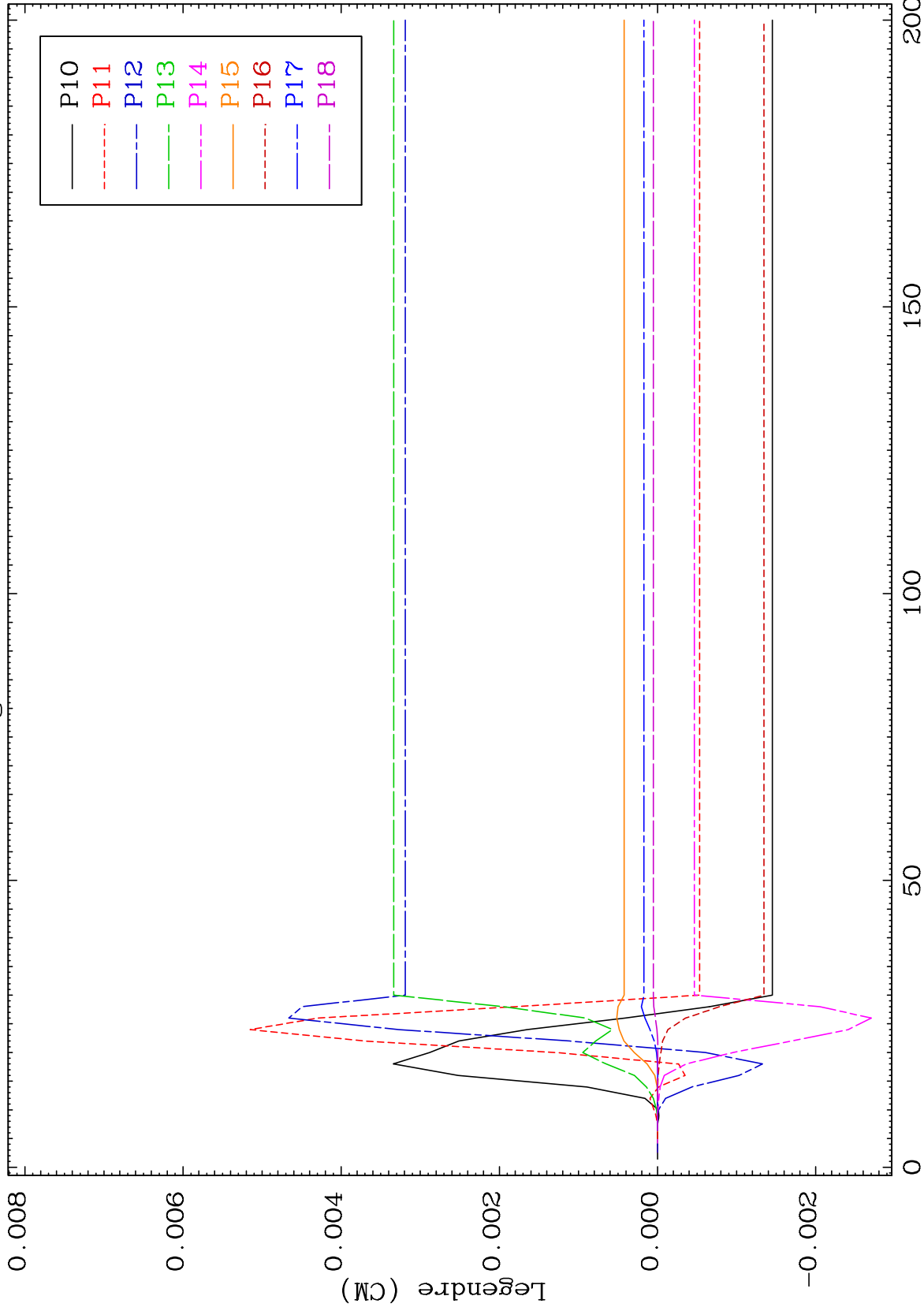
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



113

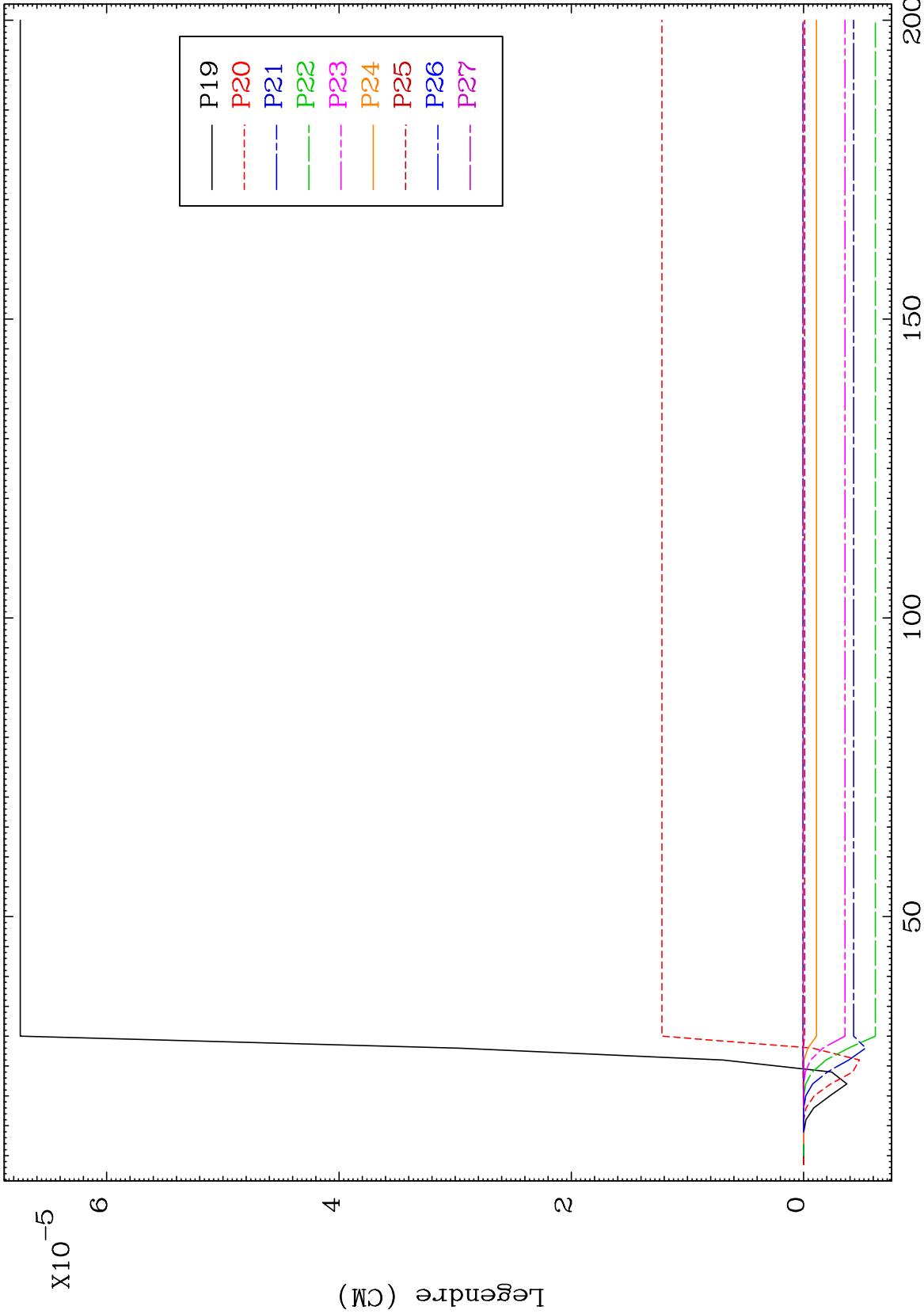
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



114

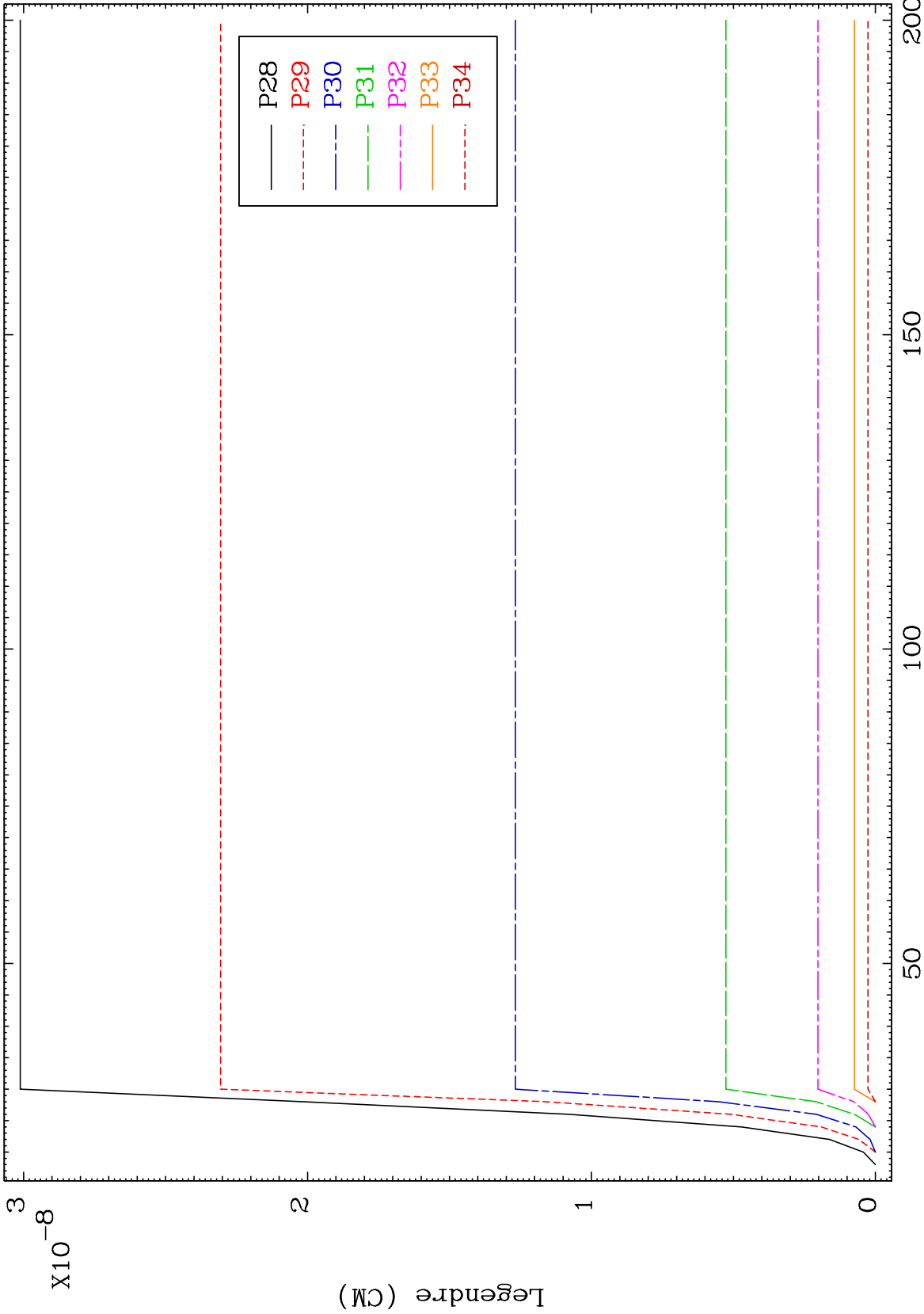
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



115

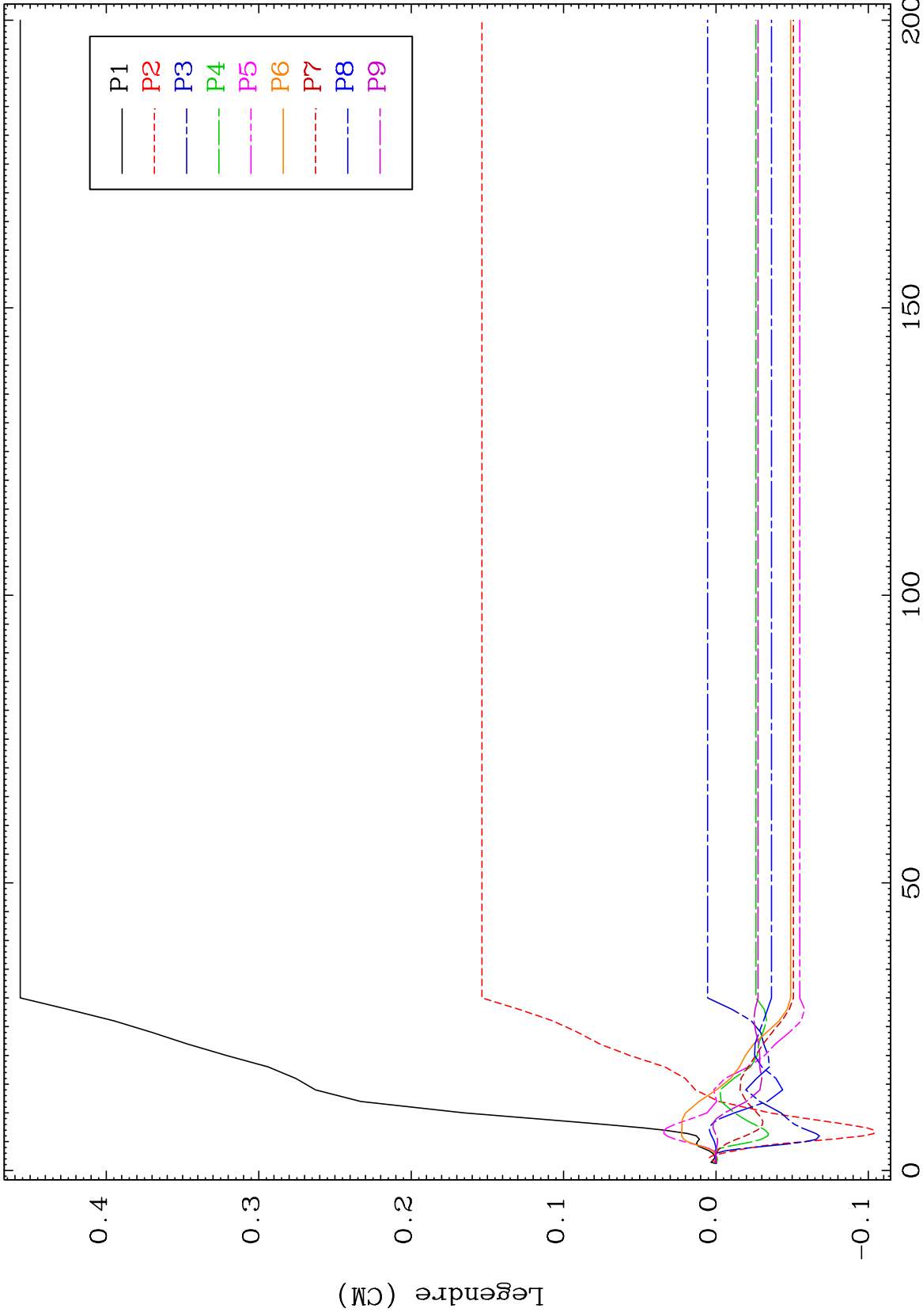
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145

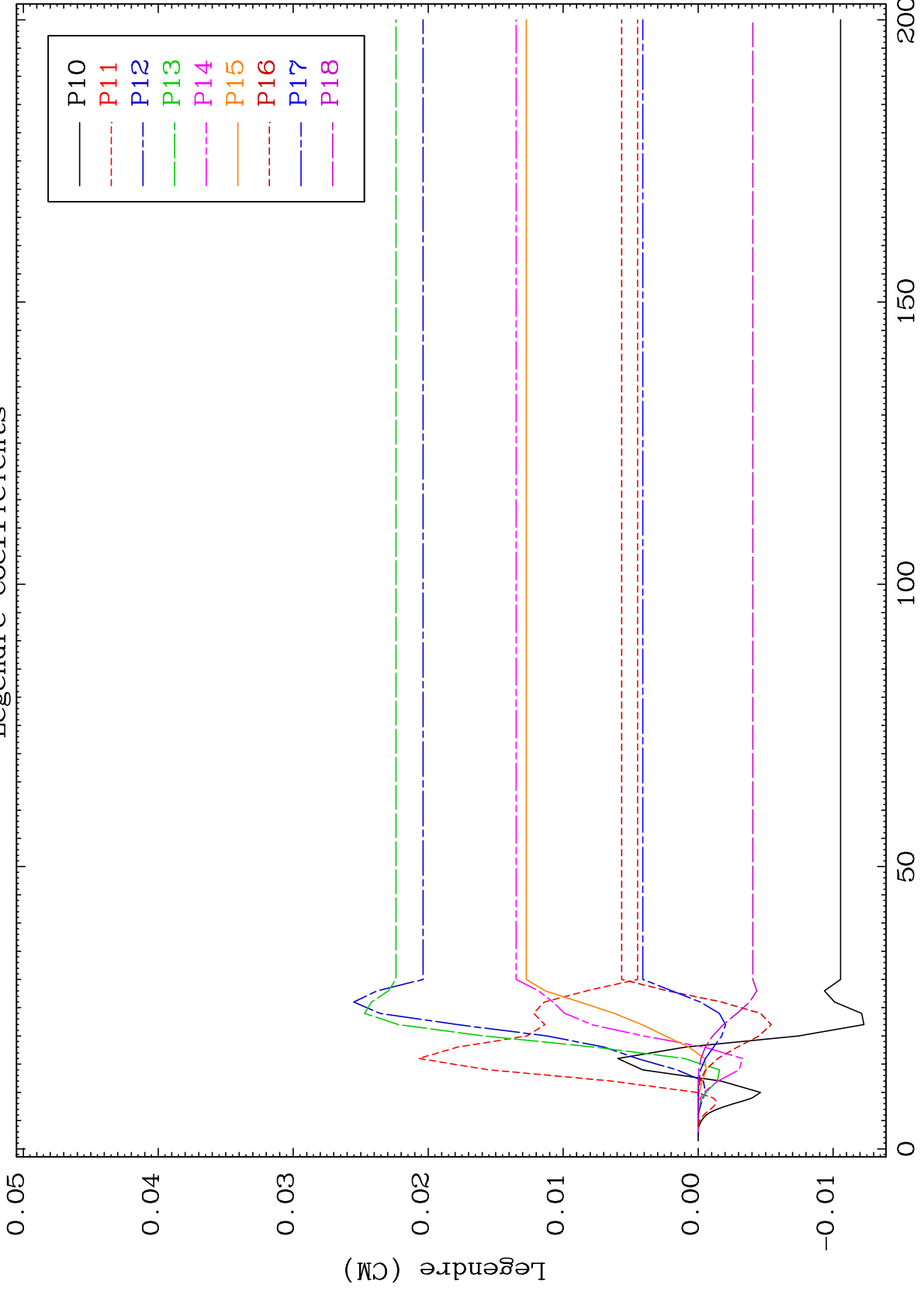


116

Incident Energy (MeV)

57-La-145

MAT 5746 MT= 75 (n,n') Level Legendre Coefficients 57-La-145

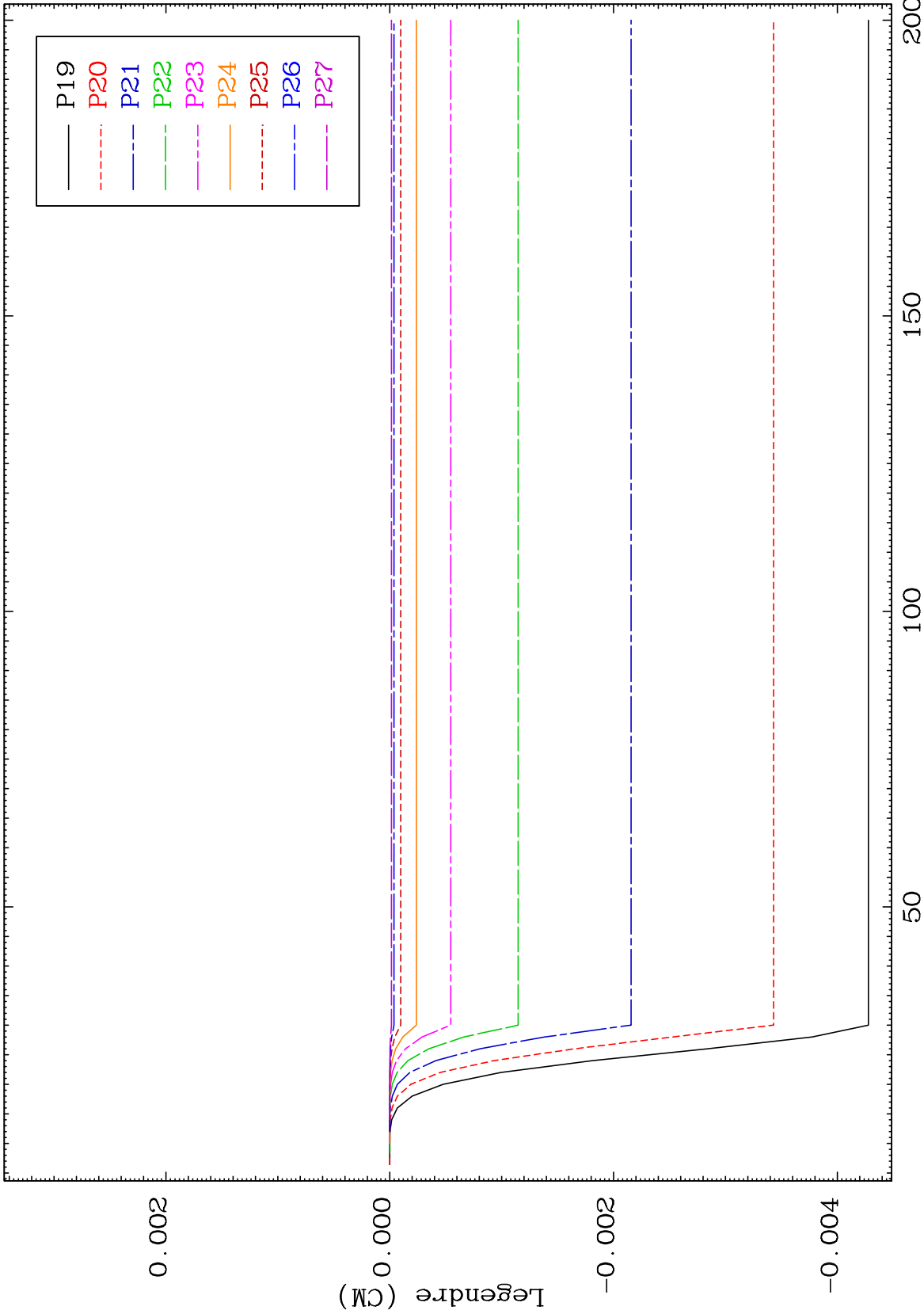


117 57-La-145

MAT 5746

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

57-La-145



118

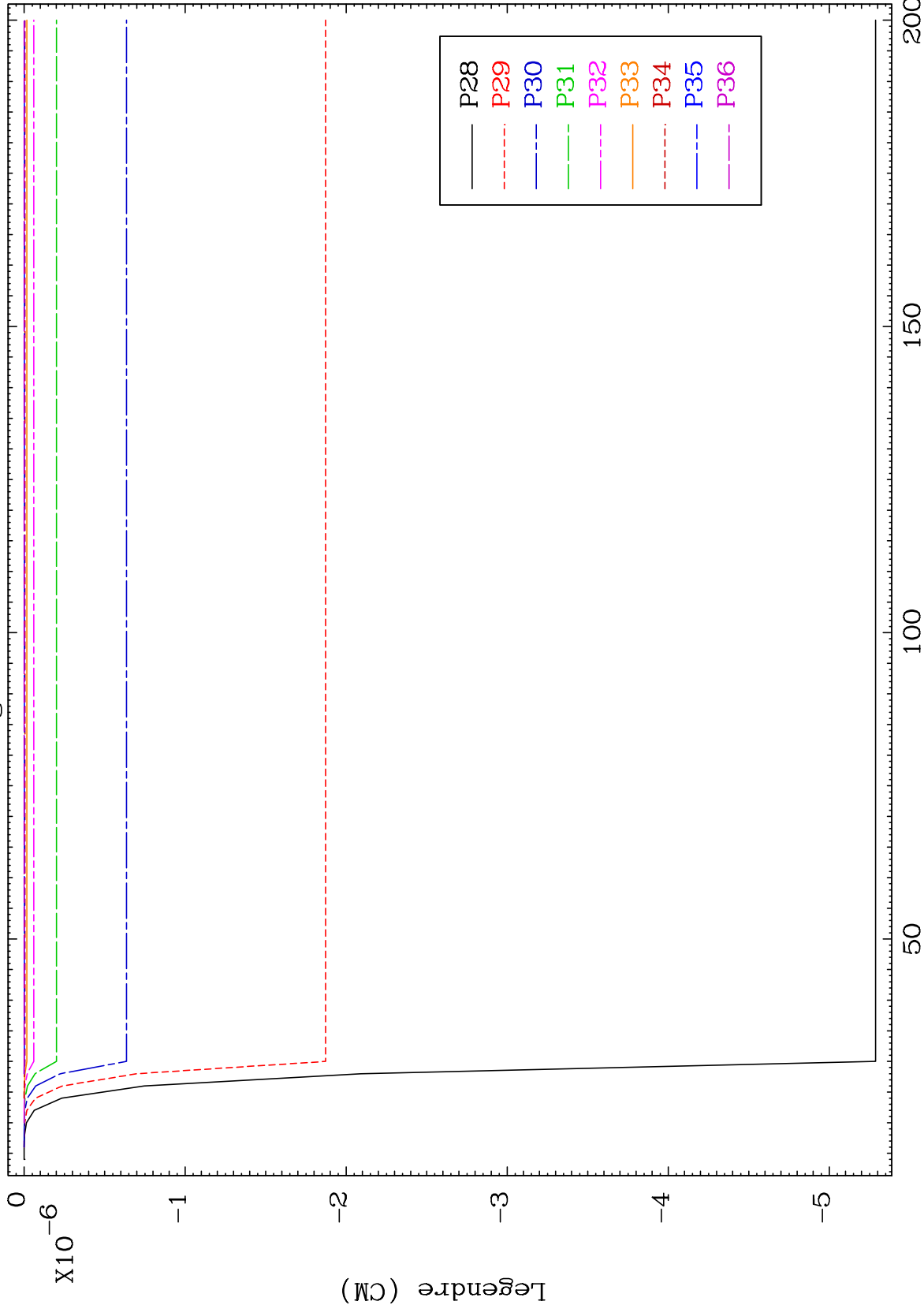
Incident Energy (MeV)

57-La-145

MAT 5746

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

57-La-145



57-La-145

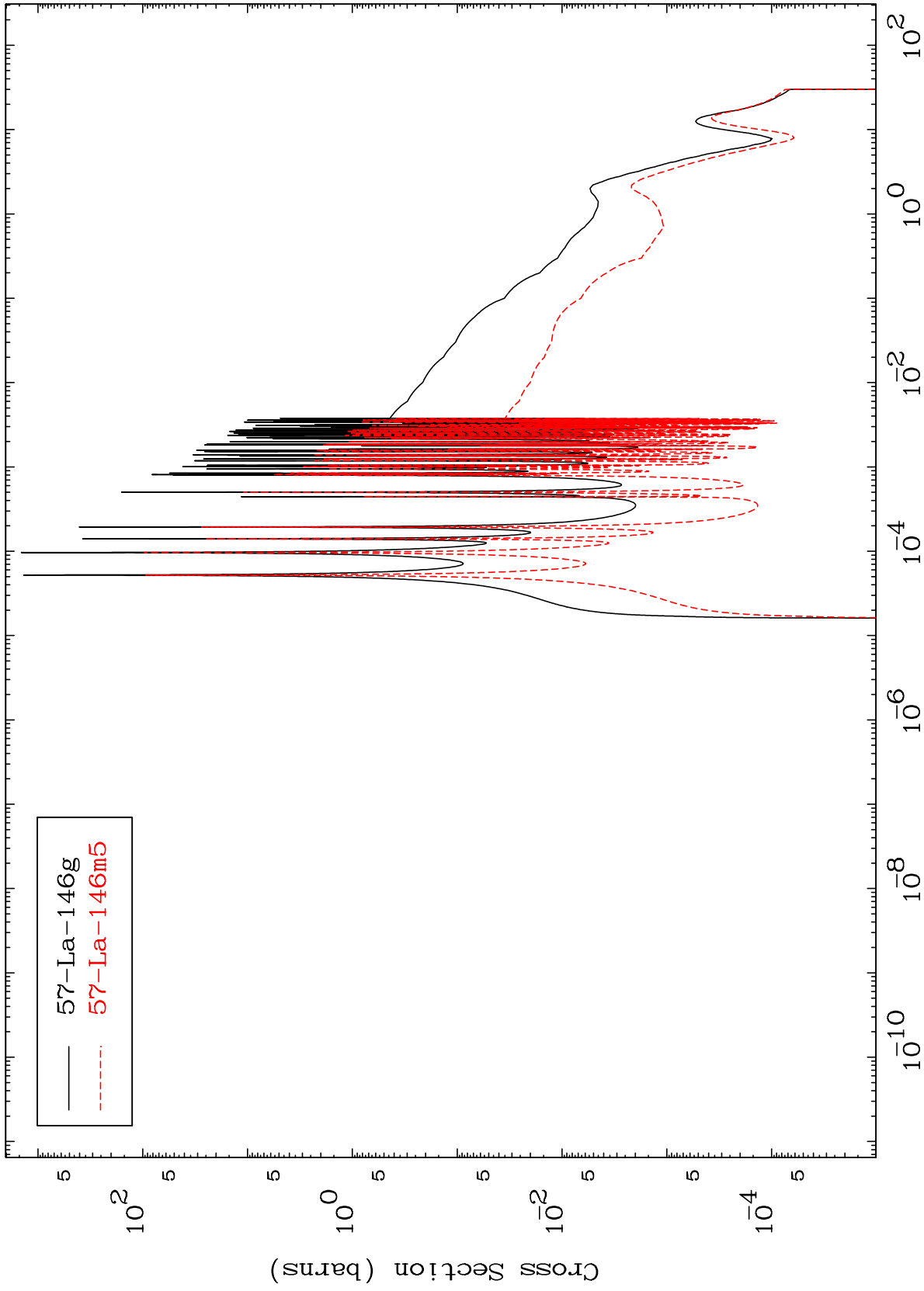
Incident Energy (MeV)

119

MAT 5746

57-La-145

Radionuclide Production Cross Section (n,γ)



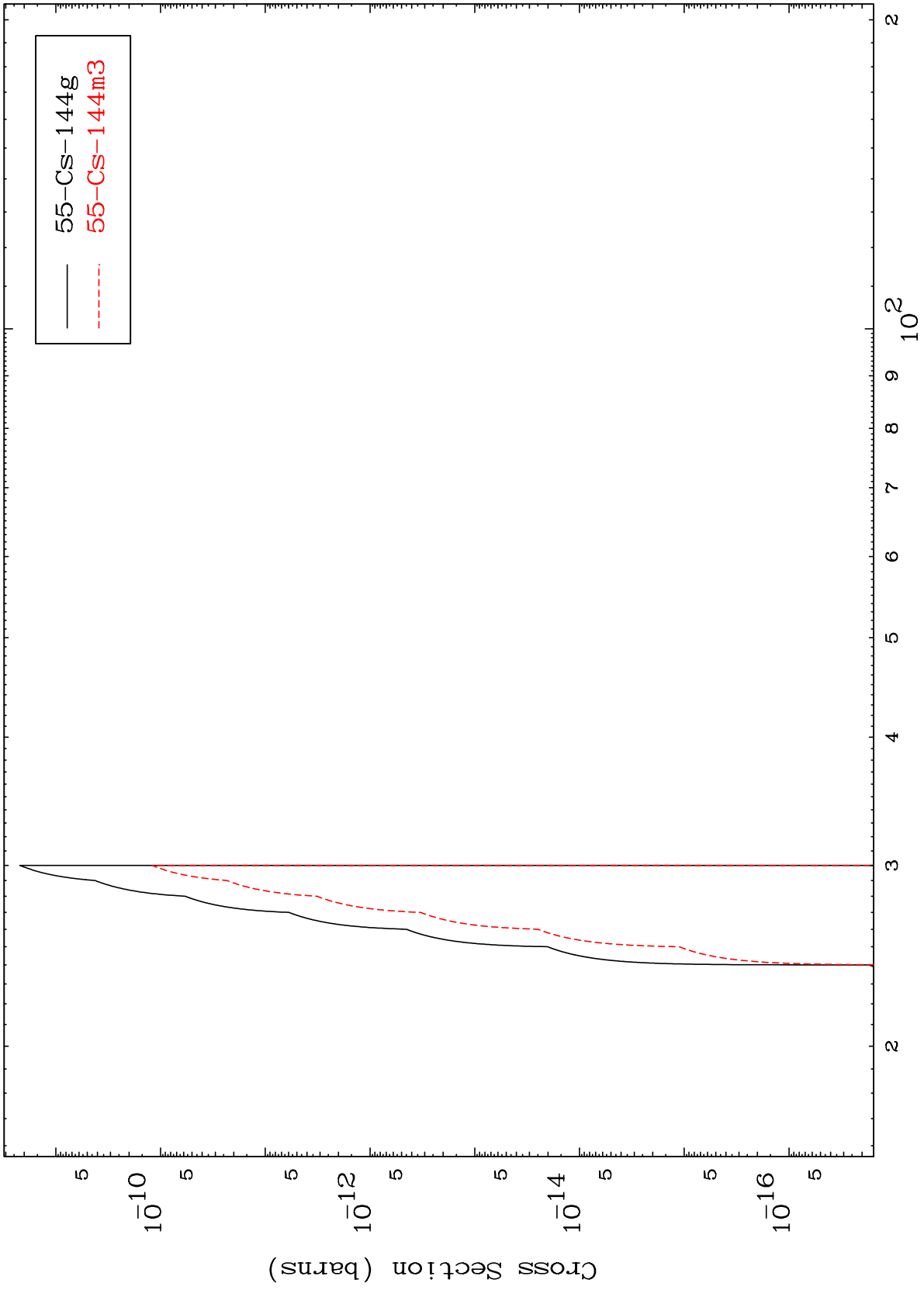
120

57-La-145

MAT 5746

57-La-145

(n,2p)
Radionuclide Production Cross Section



121

57-La-145