

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

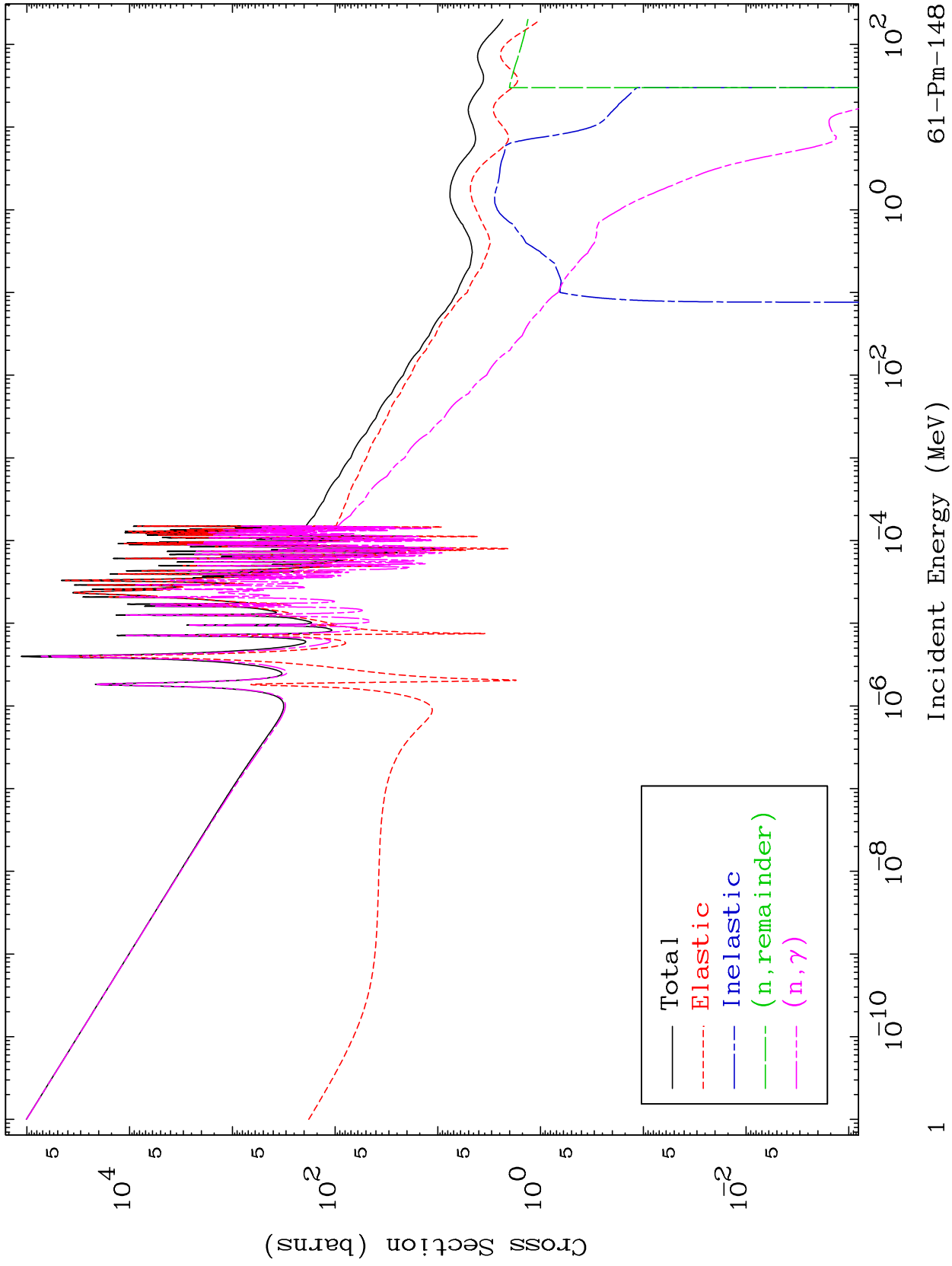
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6152

Major
293 Kelvin Cross Sections

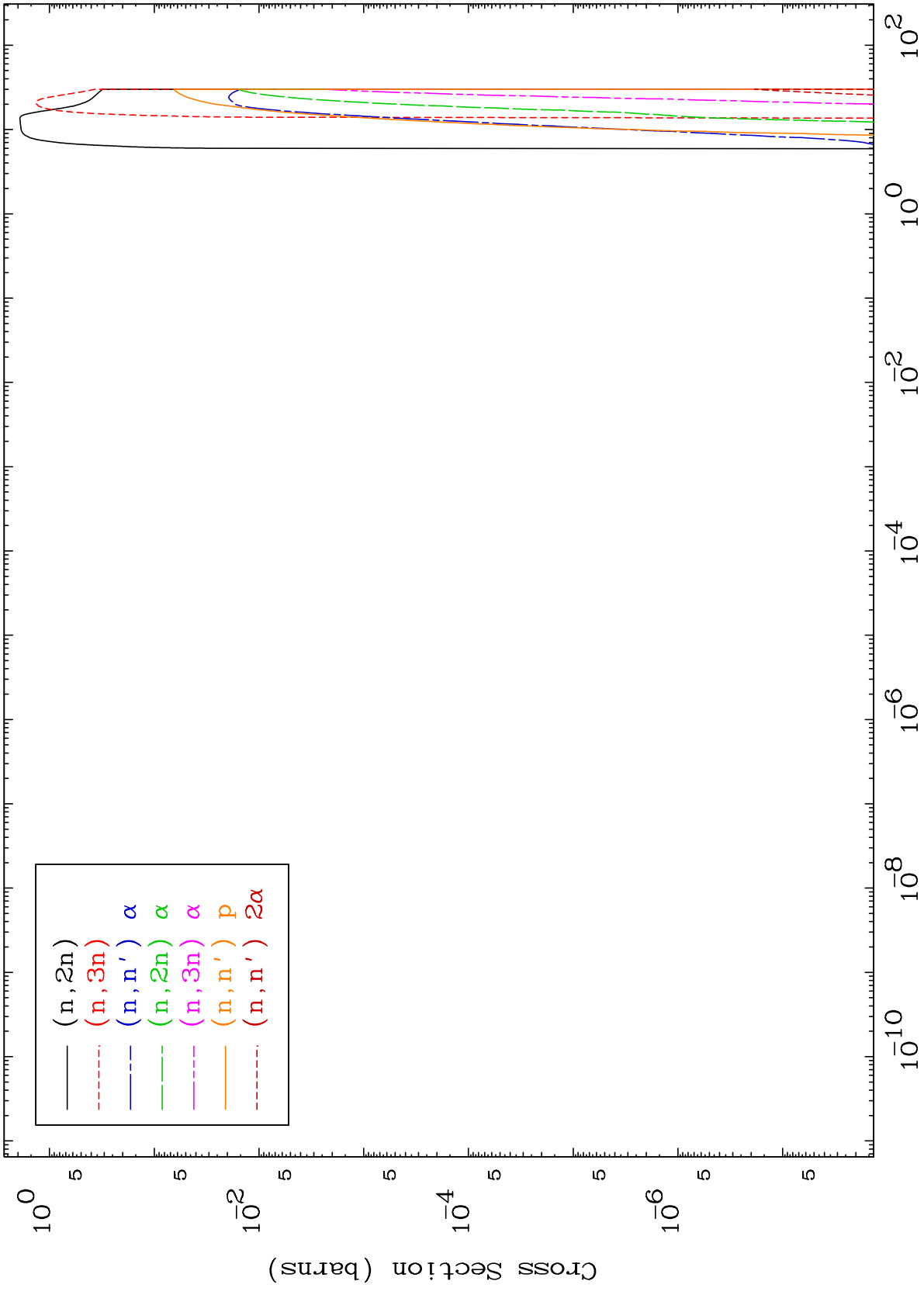
61-Pm-148

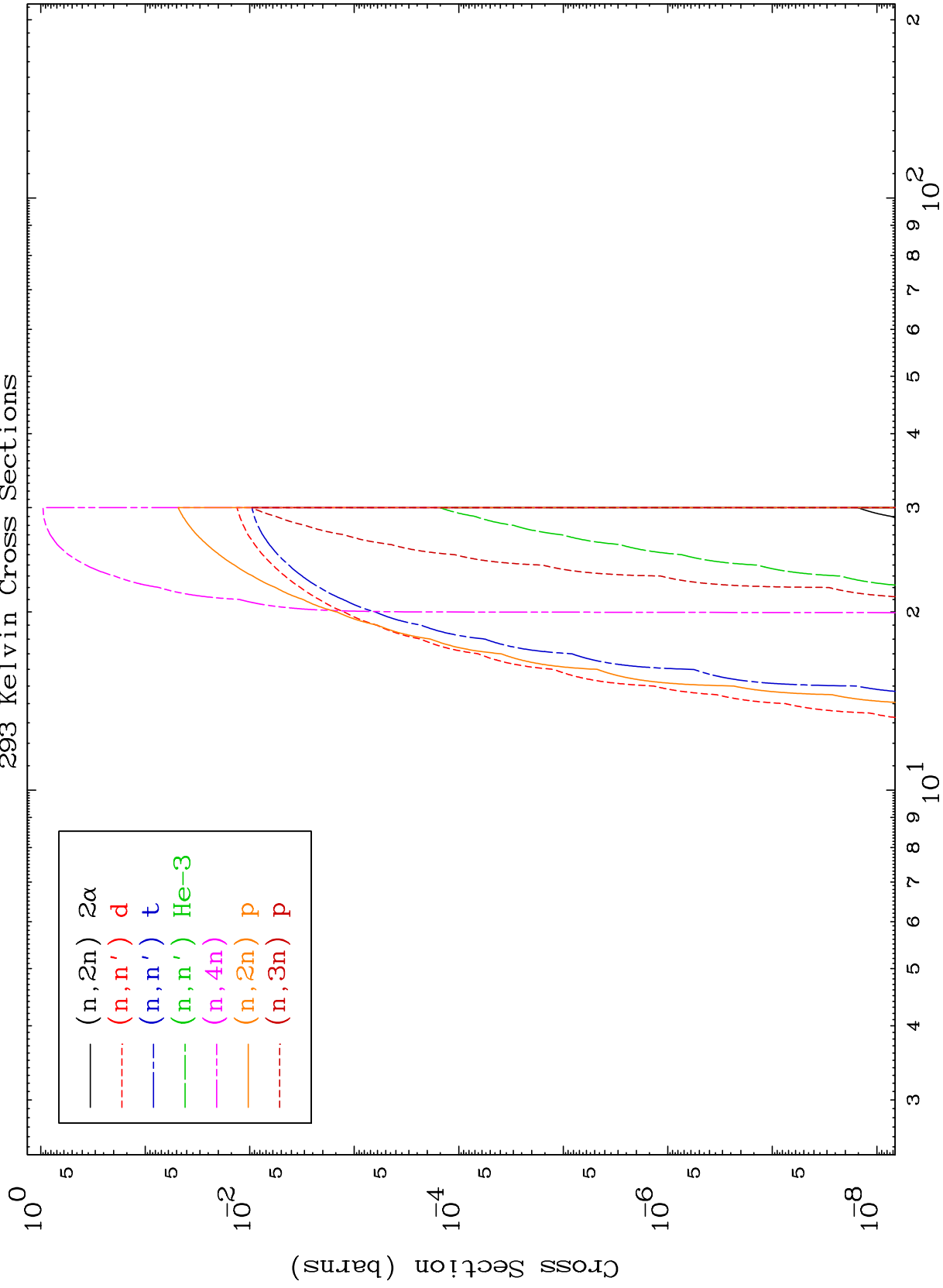


MAT 6152

Neutron Production
293 Kelvin Cross Sections

61-Pm-148

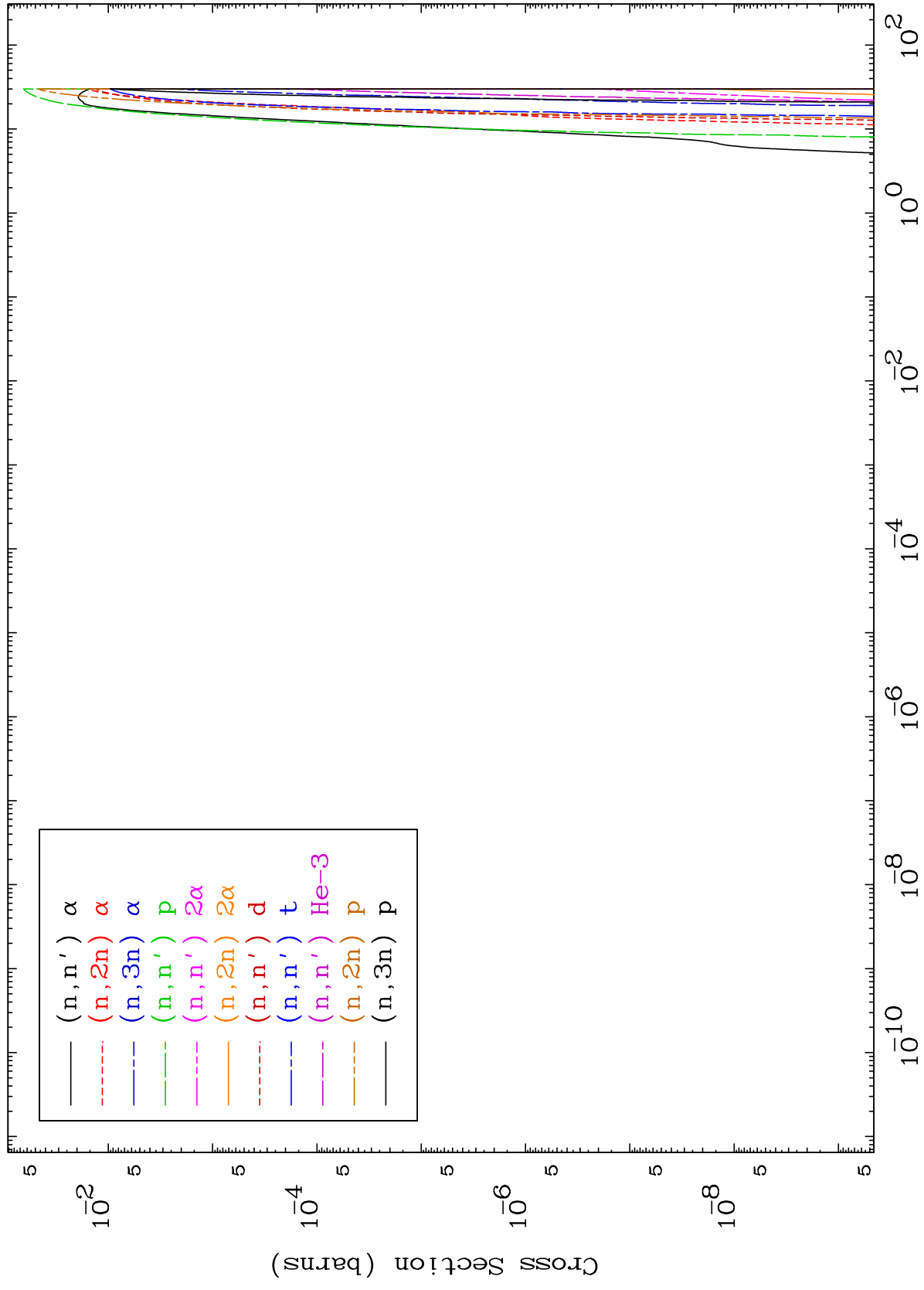




MAT 6152

293 Kelvin Cross Sections

61-Pm-148



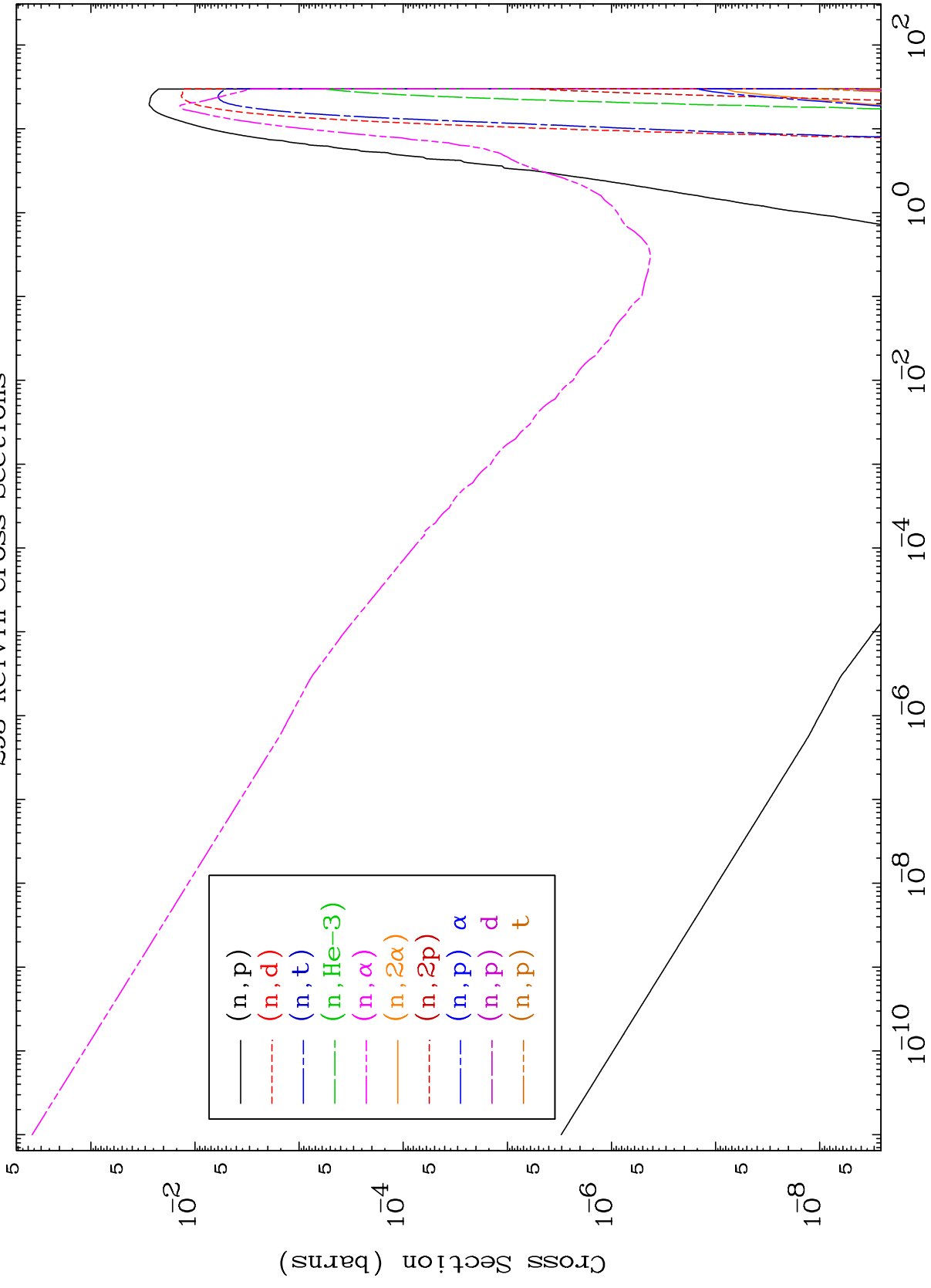
61-Pm-148

Incident Energy (MeV)

MAT 6152

293 Kelvin Cross Sections

61-Pm-148



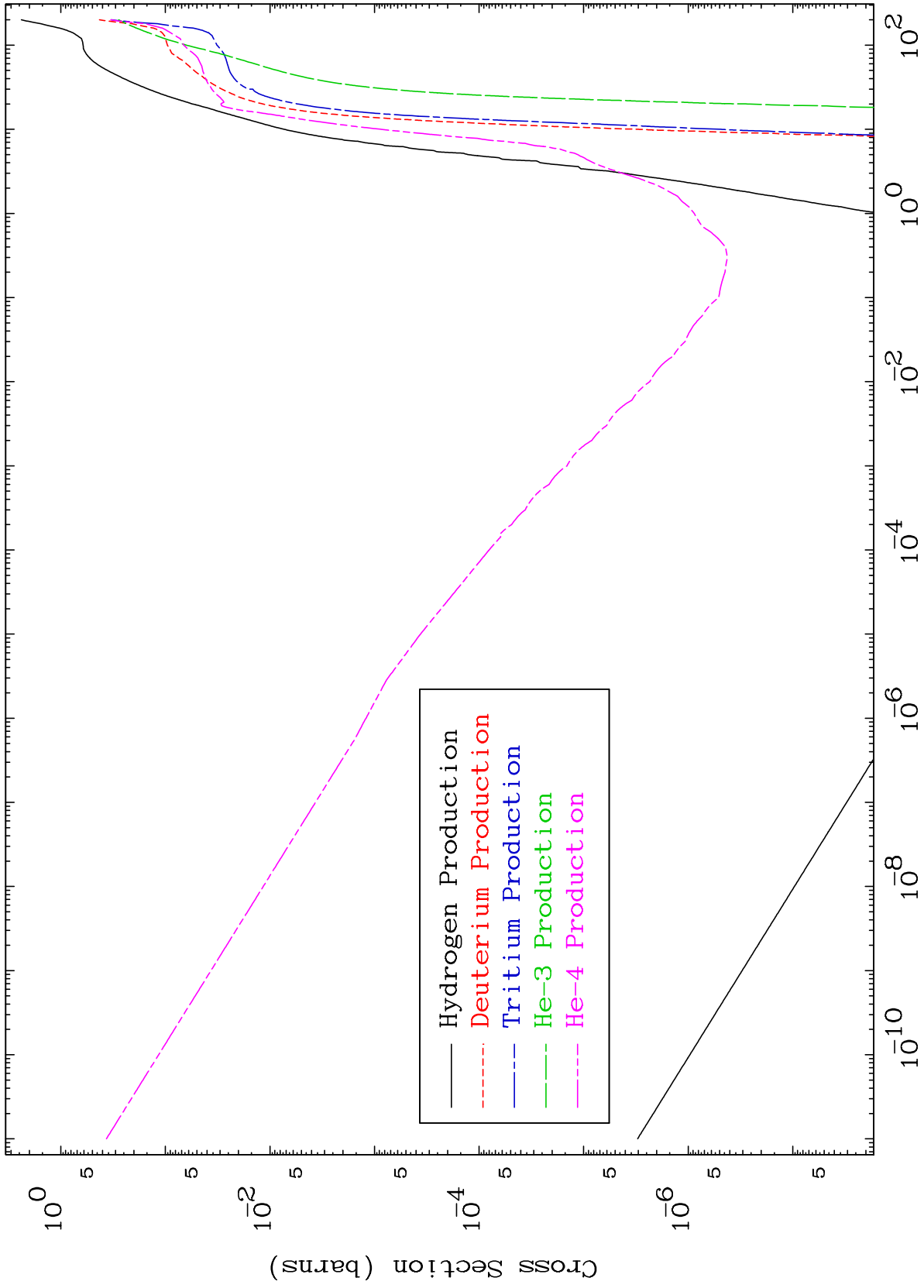
5

61-Pm-148

MAT 6152

Particle Production
293 Kelvin Cross Sections

61-Pm-148



6

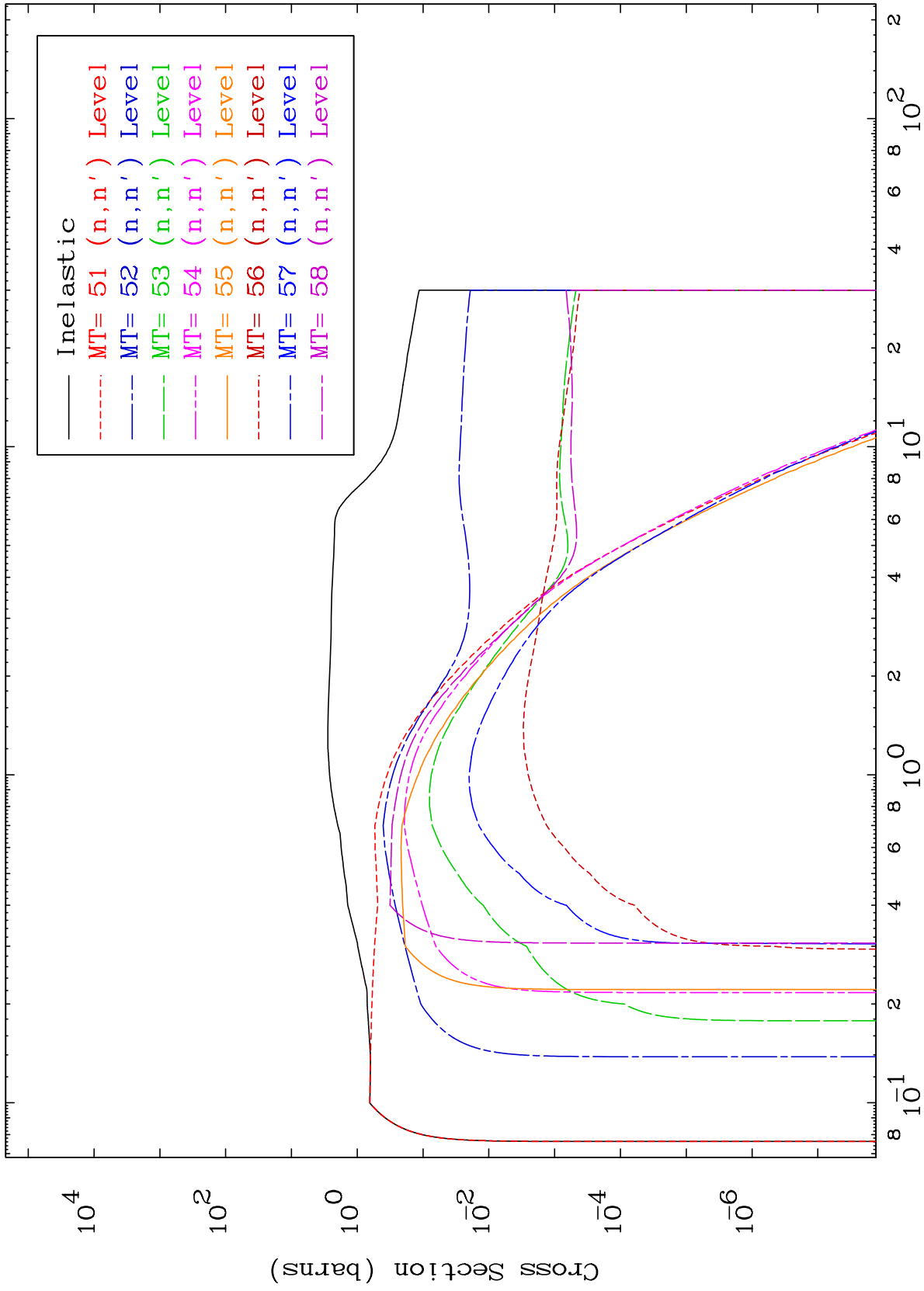
Incident Energy (MeV)

61-Pm-148

MAT 6152

(n,n') Level
293 Kelvin Cross Sections

61-Pm-148



7

Incident Energy (MeV)

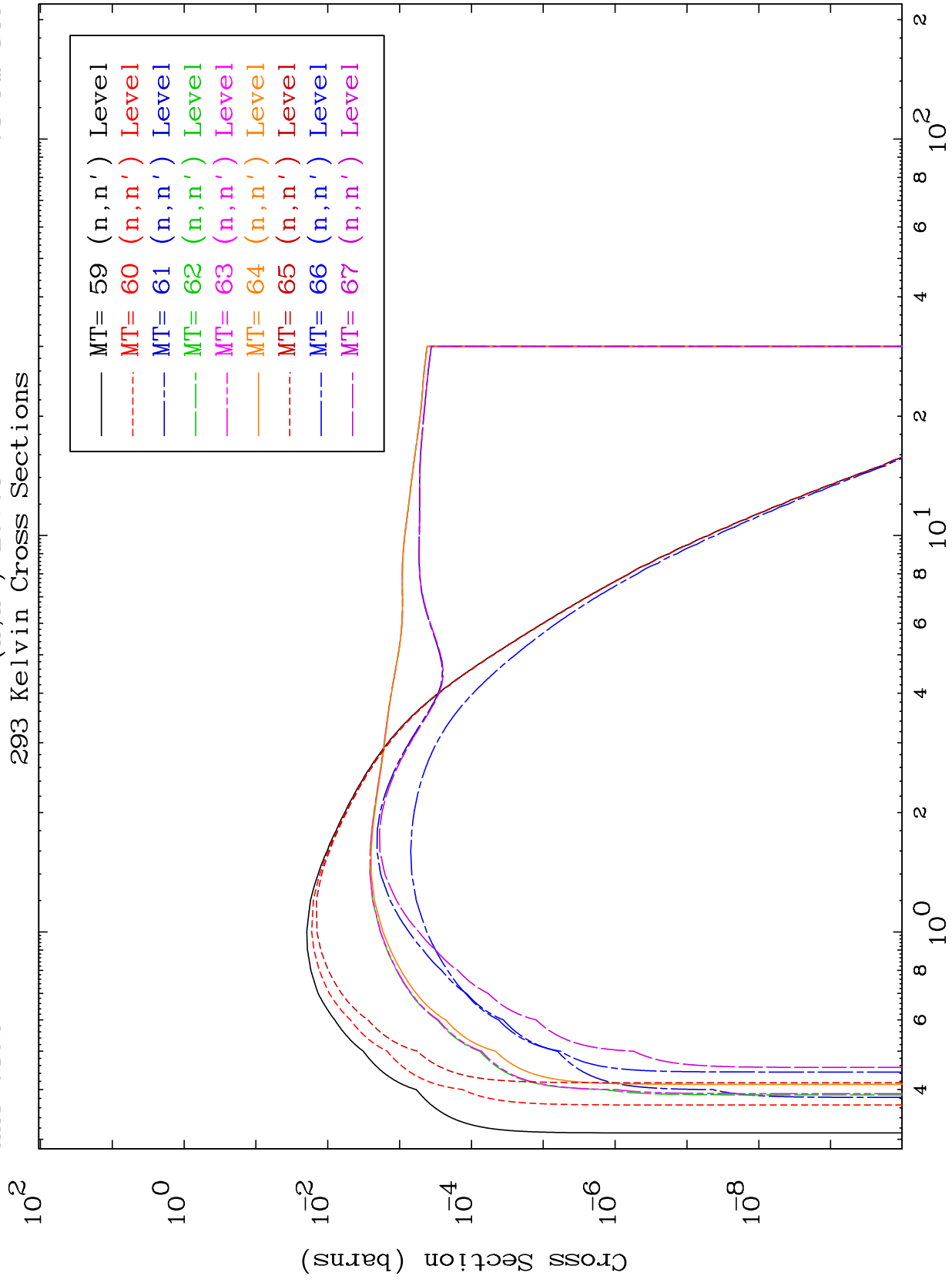
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MAT 6152

(n,n') Level

293 Kelvin Cross Sections

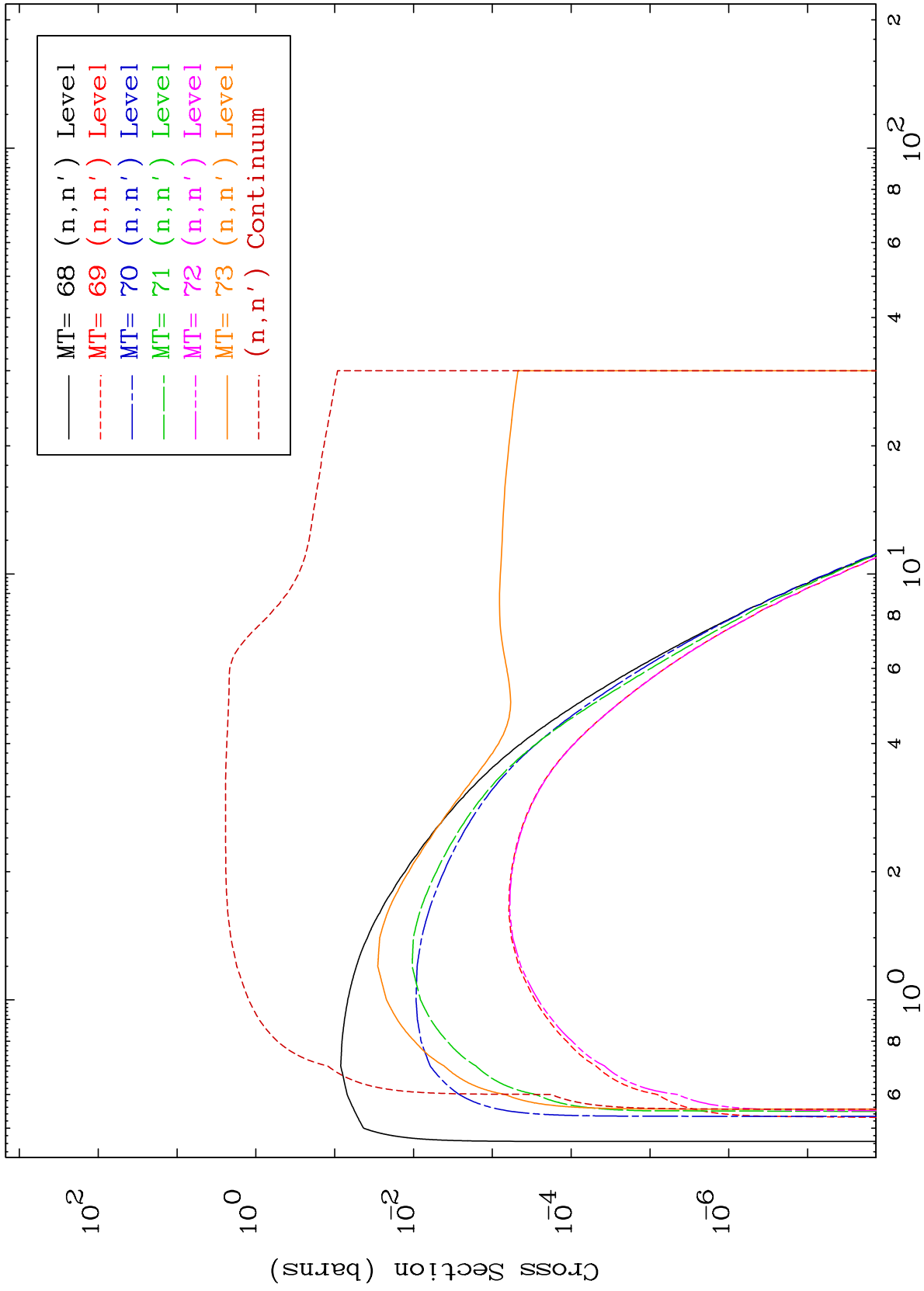
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8

Incident Energy (MeV)

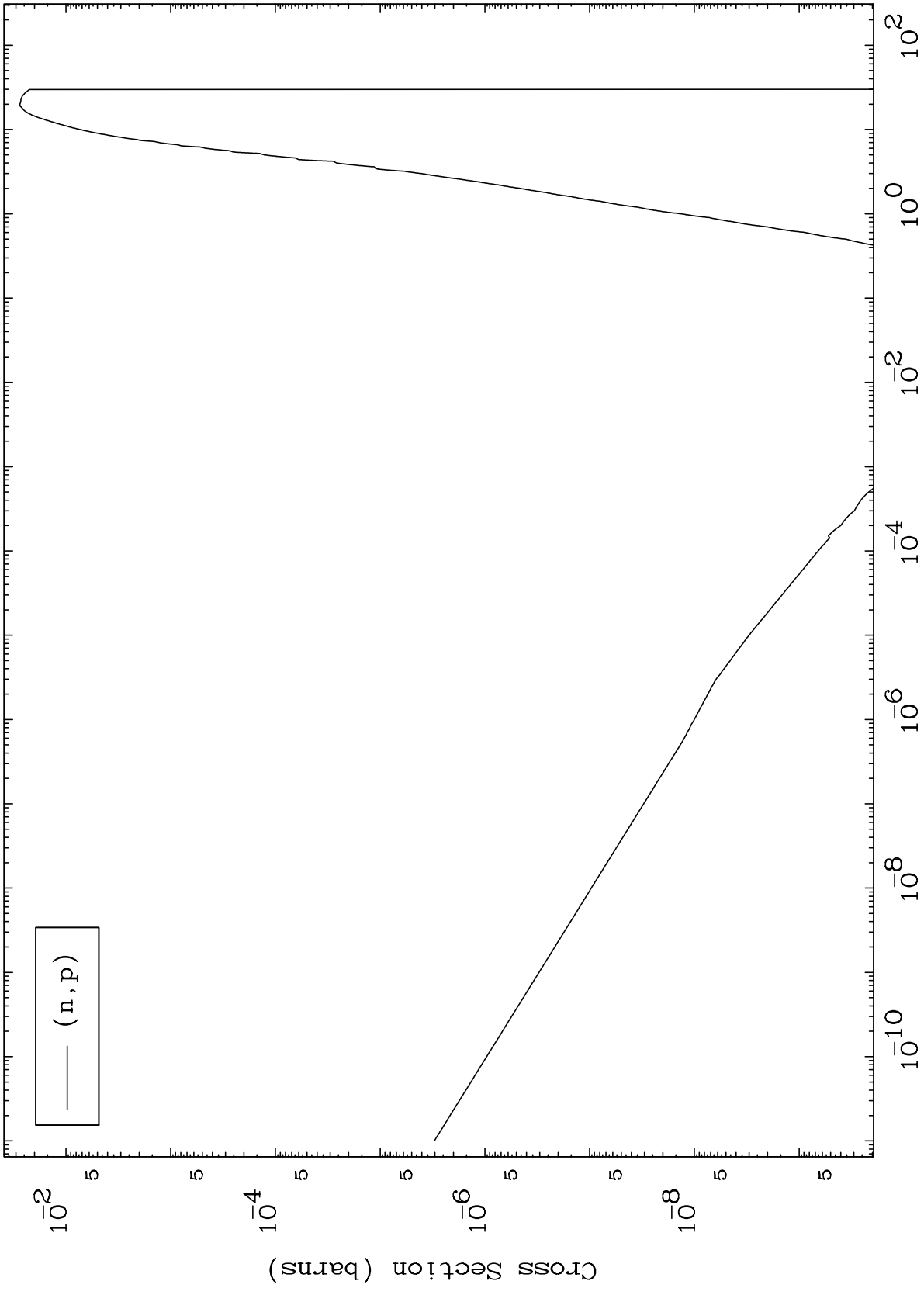
61-Pm-148



MAT 6152

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-148



10

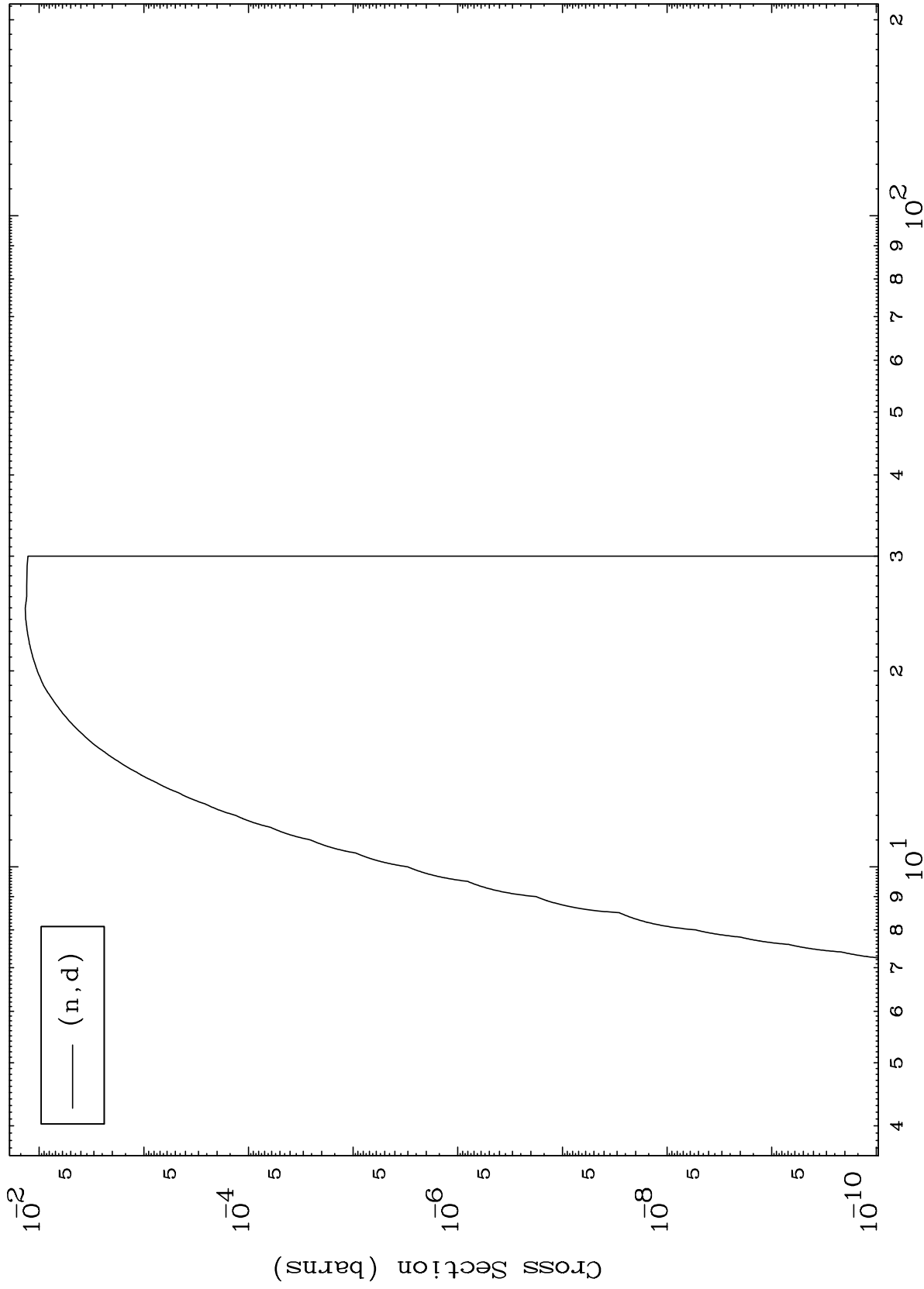
Incident Energy (MeV)

61-Pm-148

MAT 6152

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-148



11

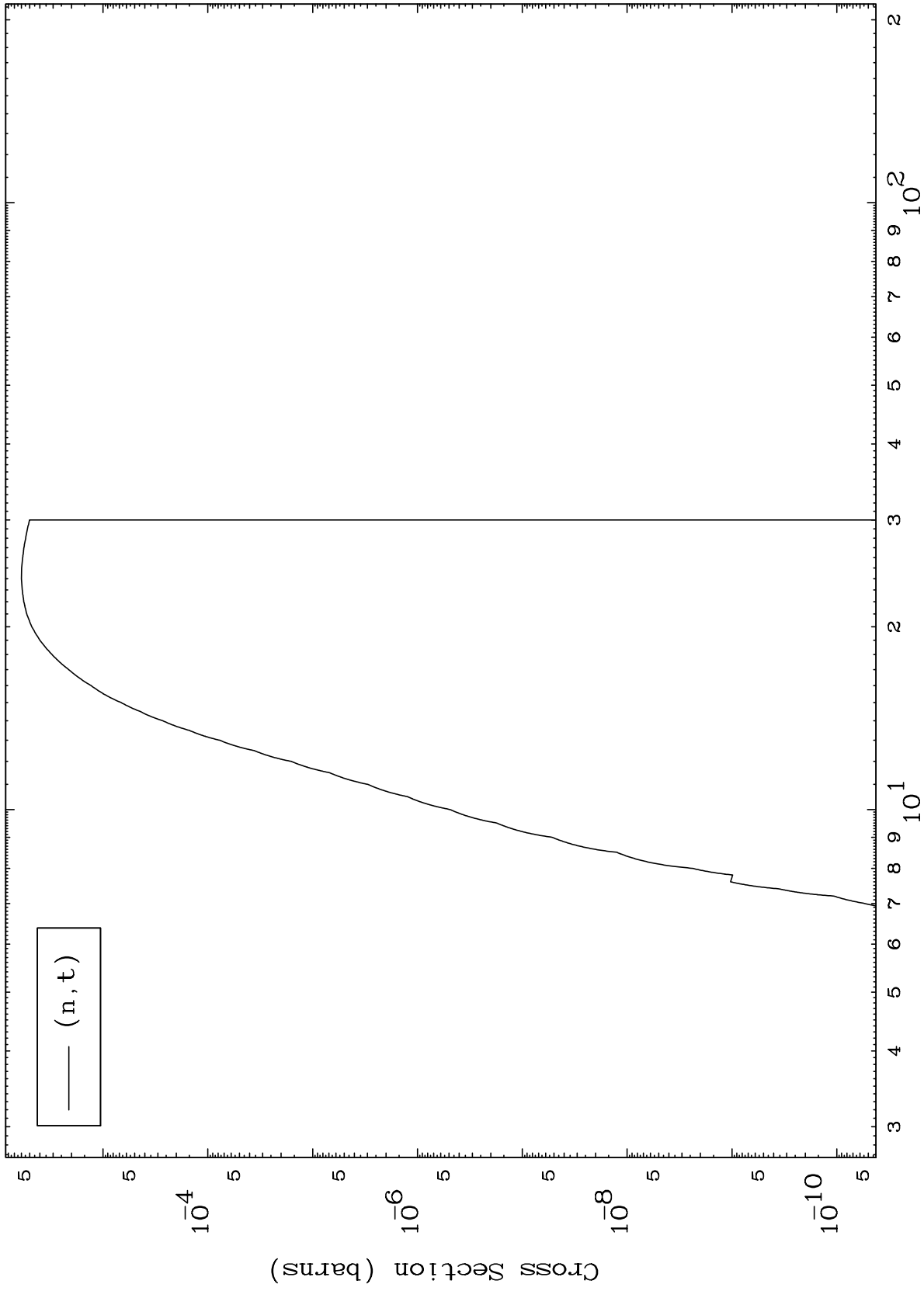
Incident Energy (MeV)

61-Pm-148

MAT 6152

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-148



12

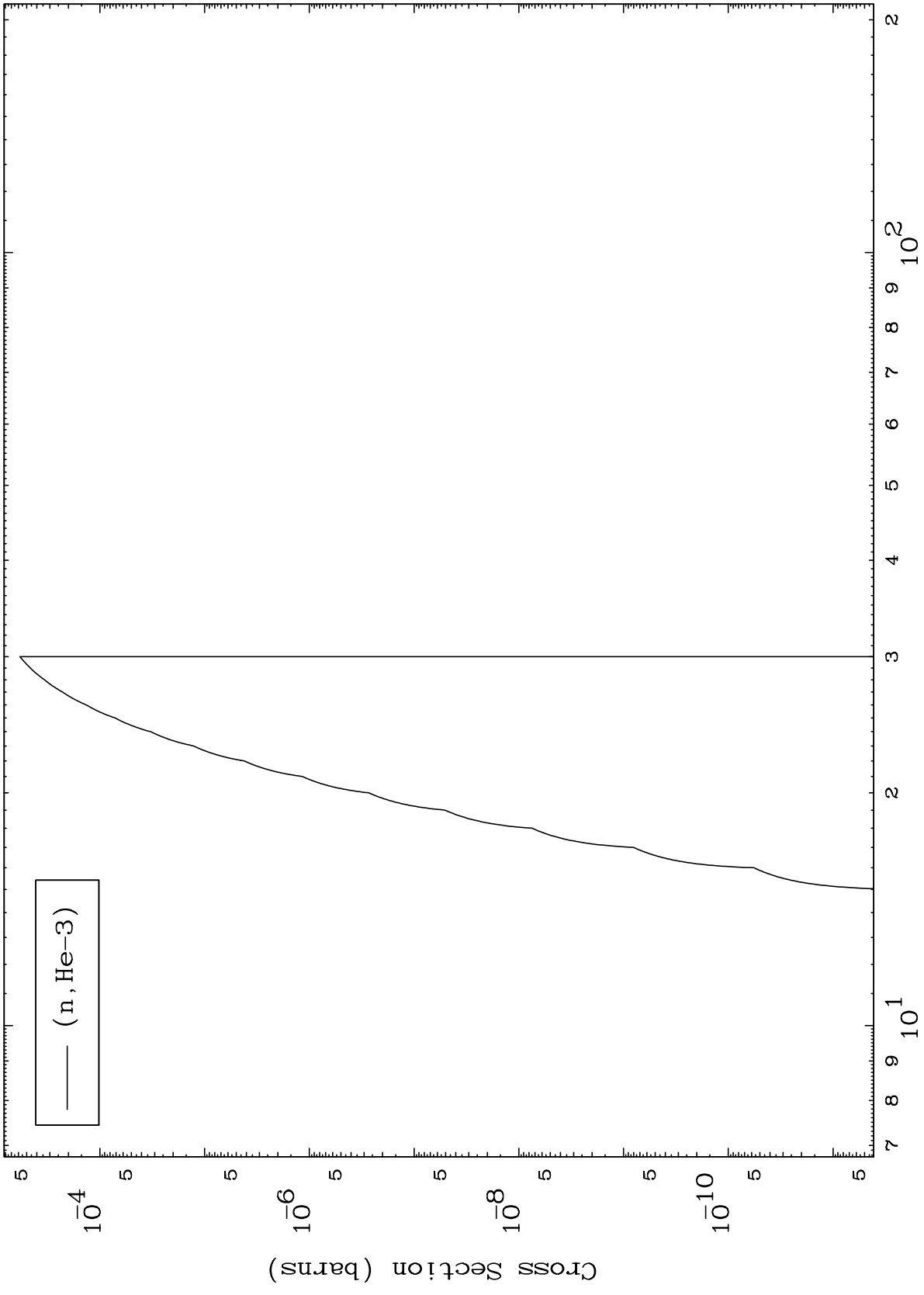
61-Pm-148

61-Pm-148

MAT 6152

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-148



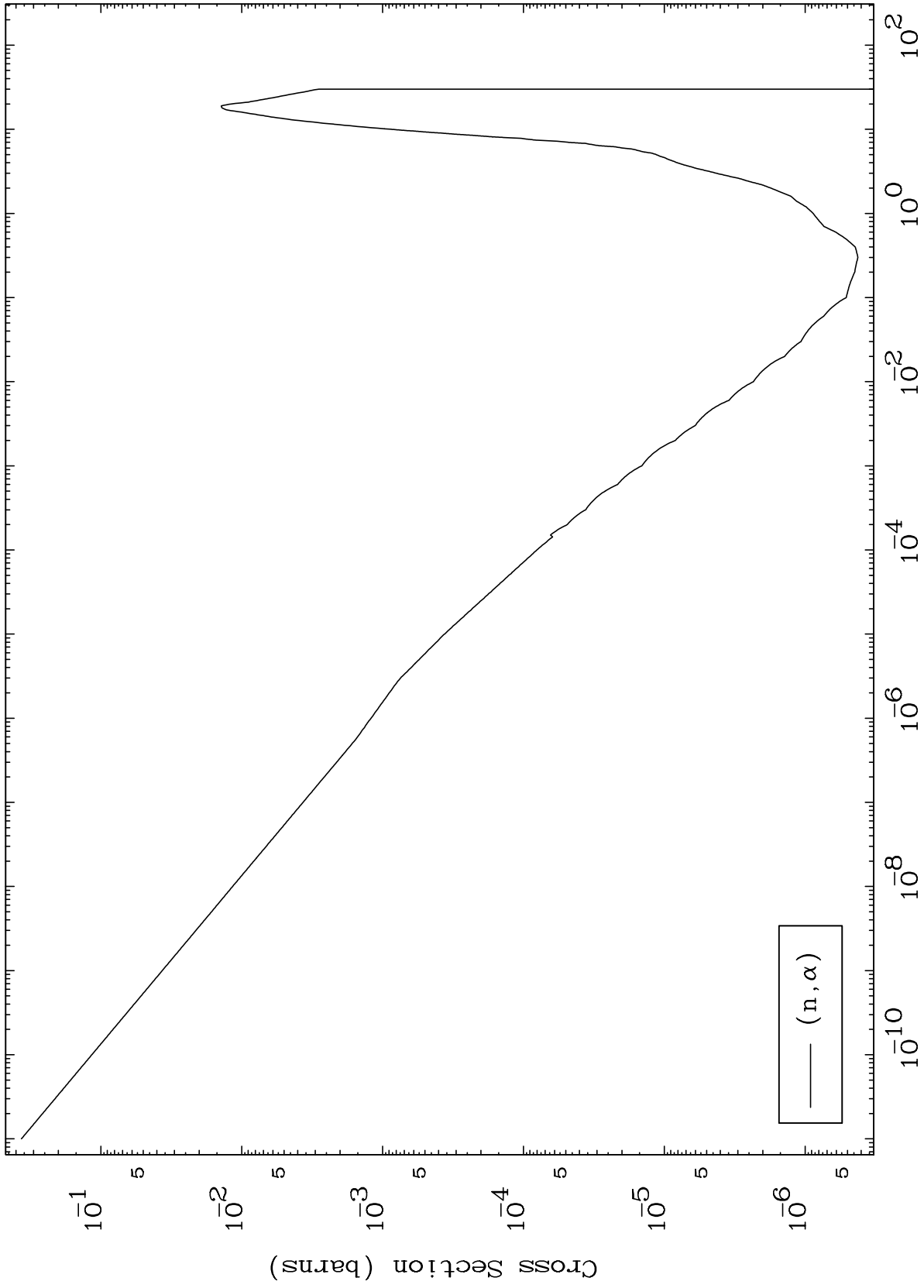
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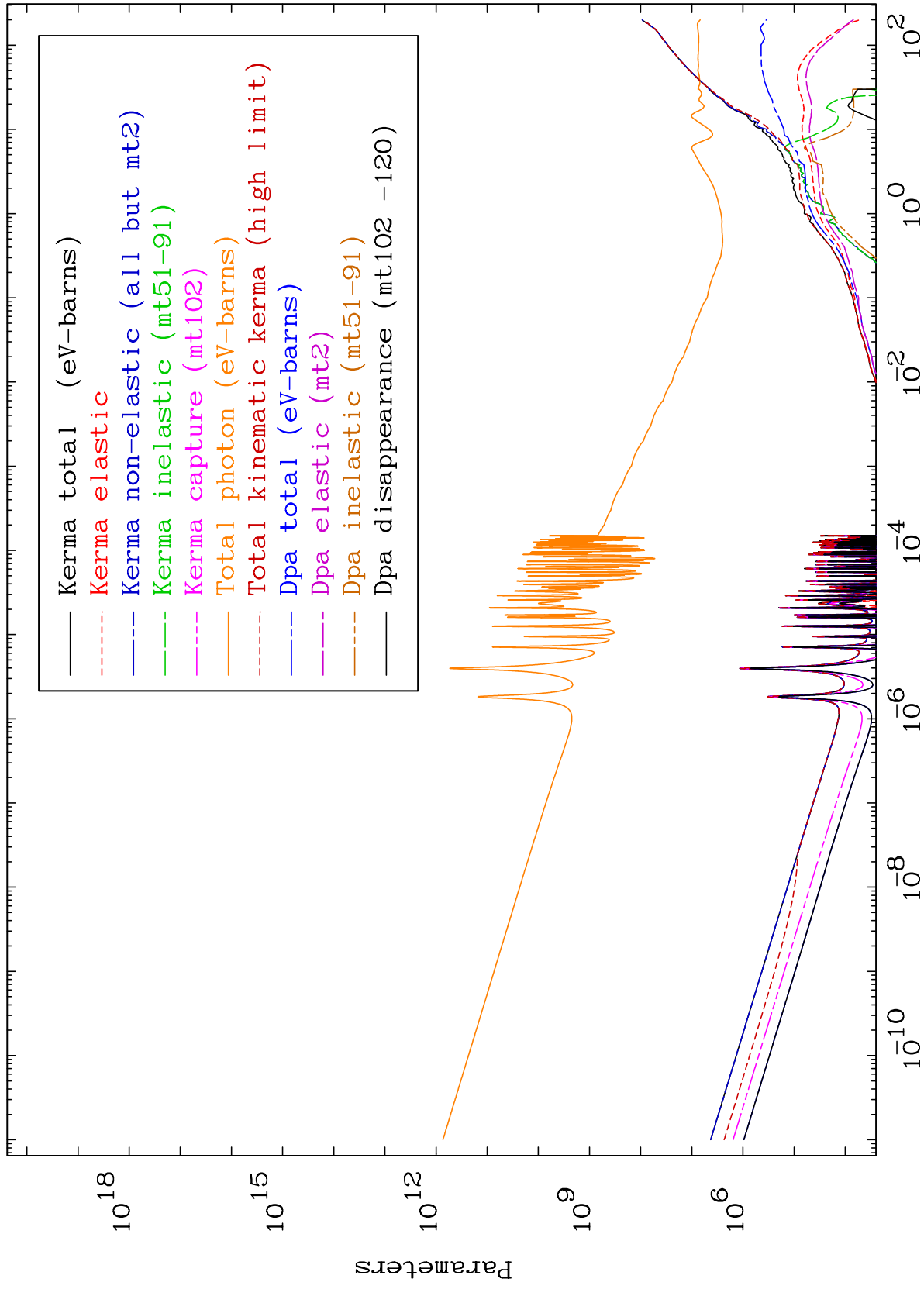
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MAT 6152

(n,α) Levels
293 Kelvin Cross Sections

61-Pm-148

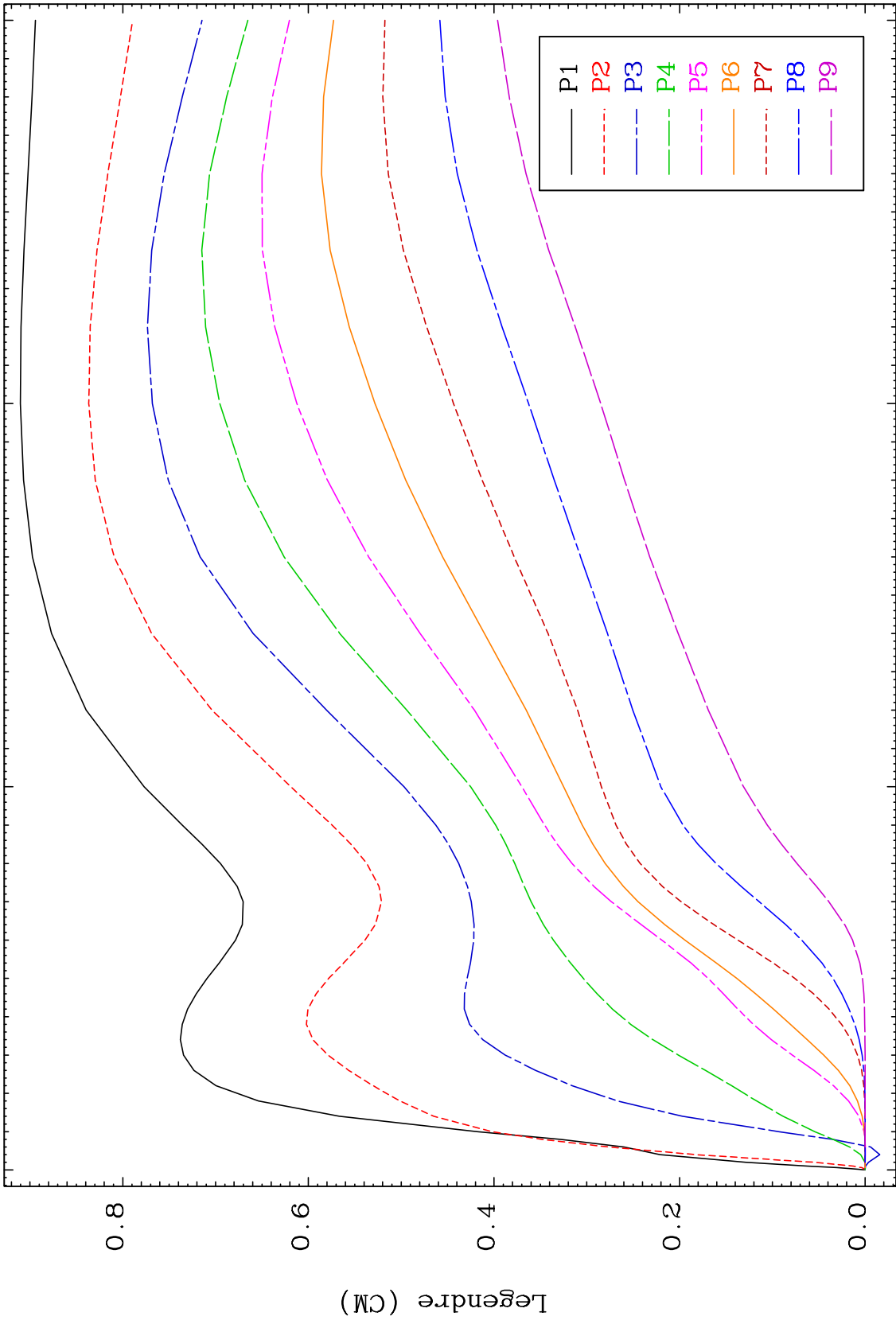




MAT 6152

Elastic Legendre Coefficients

61-Pm-148



16

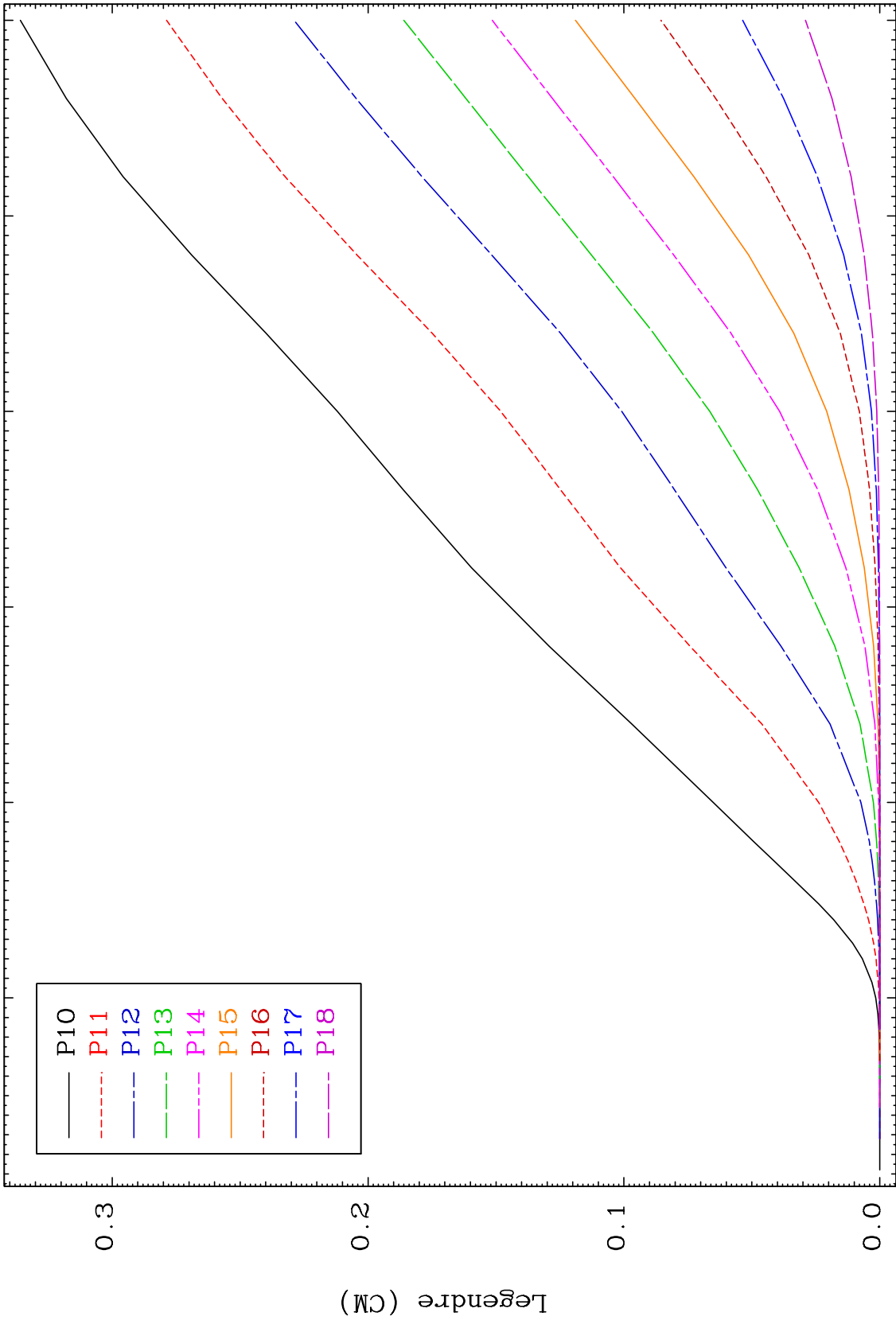
Incident Energy (MeV)

61-Pm-148

MAT 6152

Elastic Legendre Coefficients

61-Pm-148



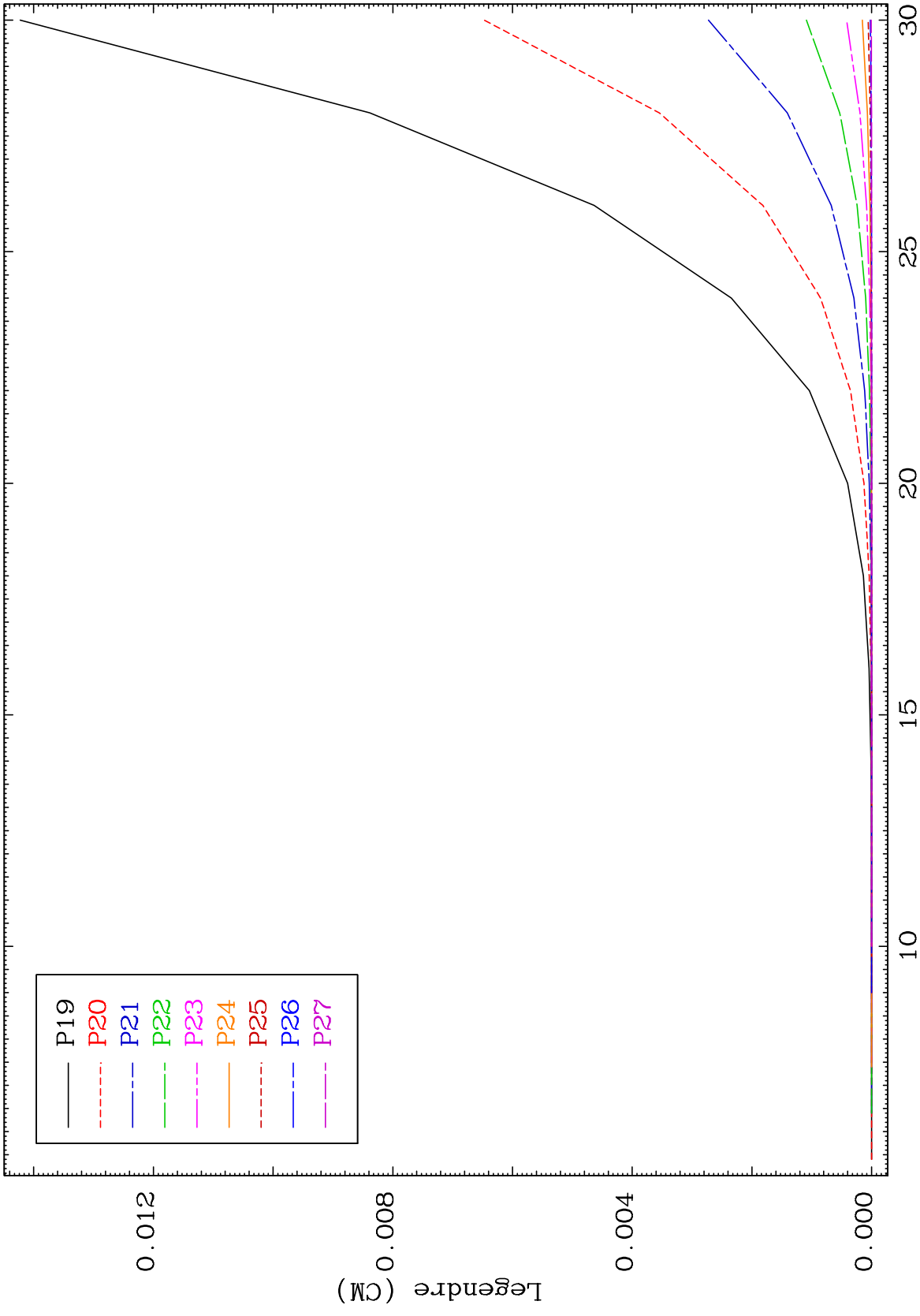
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61-Pm-148

MAT 6152

Elastic Legendre Coefficients

61-Pm-148

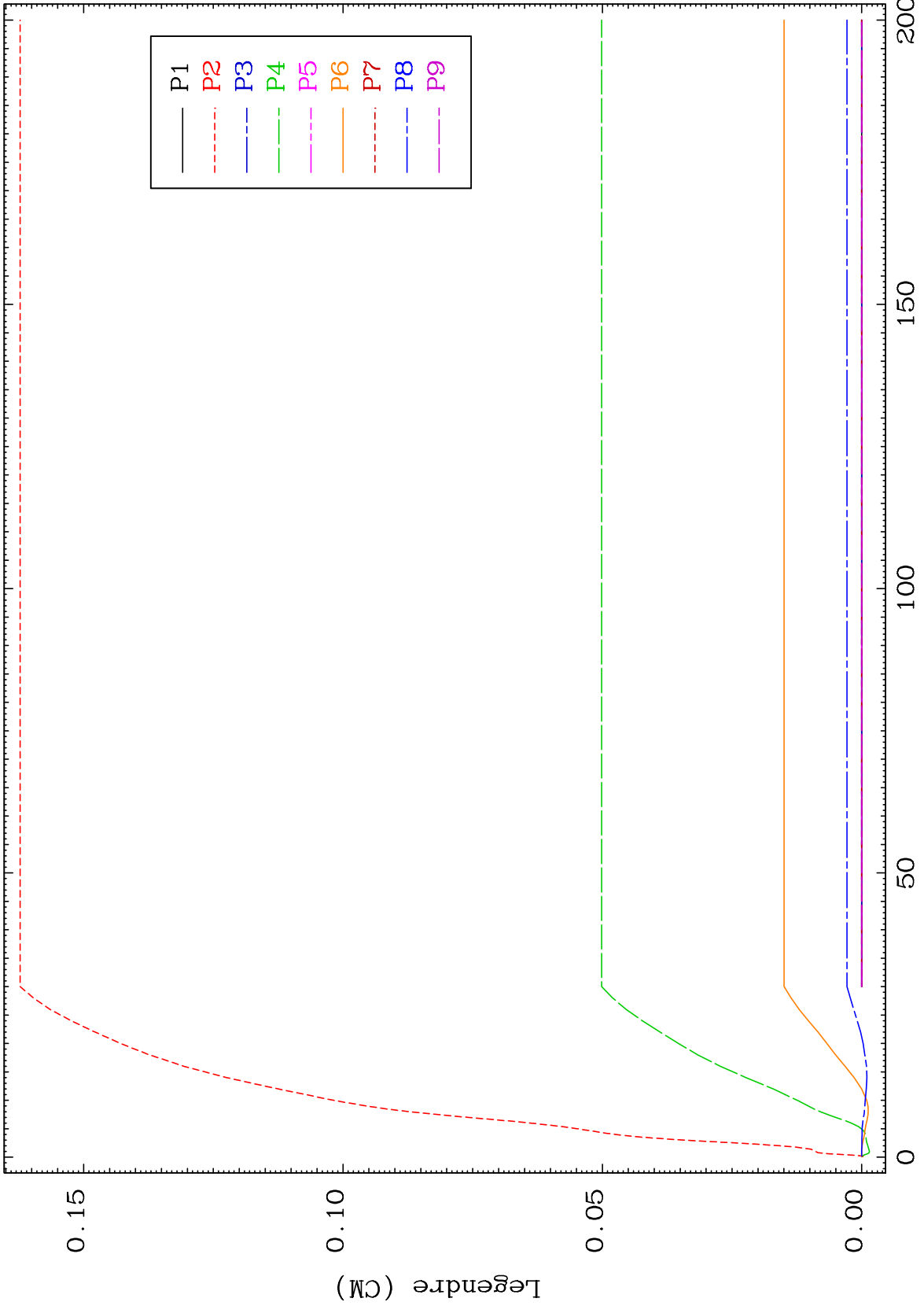


18

Incident Energy (MeV)

61-Pm-148

MAT 6152 MT= 51 (n,n') Level Legendre Coefficients 61-Pm-148

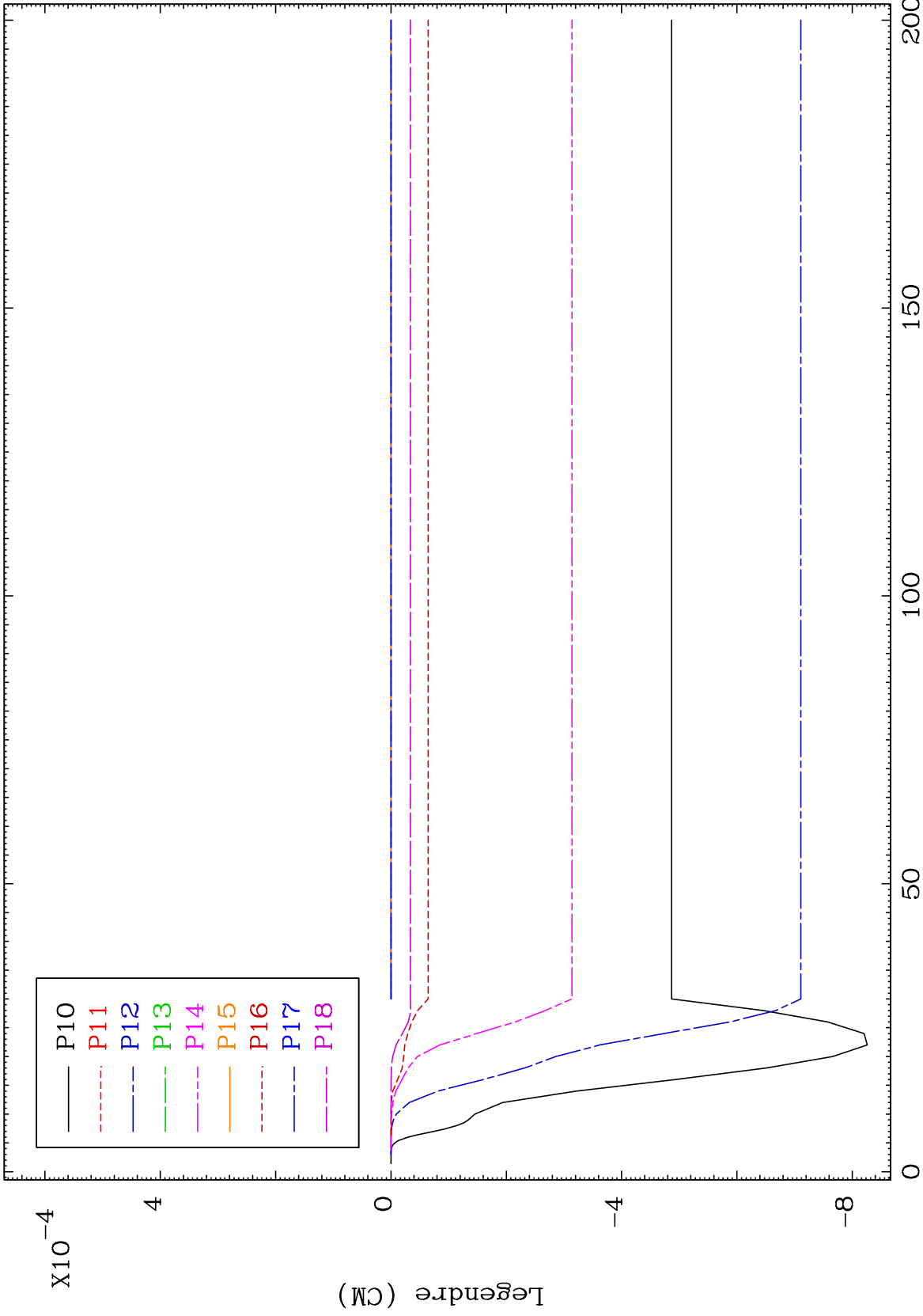


Legendre (CM) Incident Energy (MeV) 61-Pm-148

MAT 6152

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

61-Pm-148



21

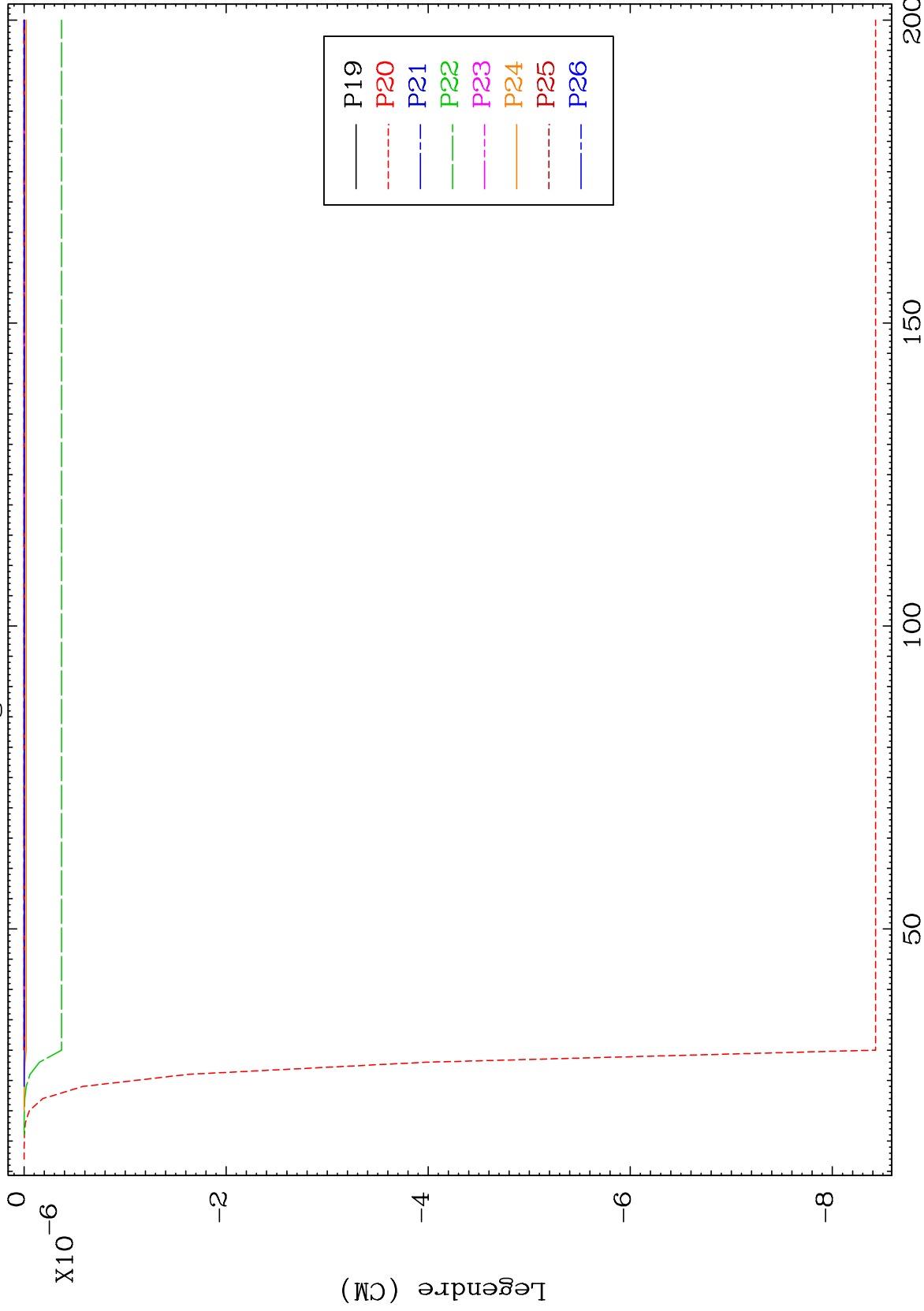
Incident Energy (MeV)

61-Pm-148

MAT 6152 MT= 51 (n,n') Level

61-Pm-148

Legendre Coefficients



61-Pm-148

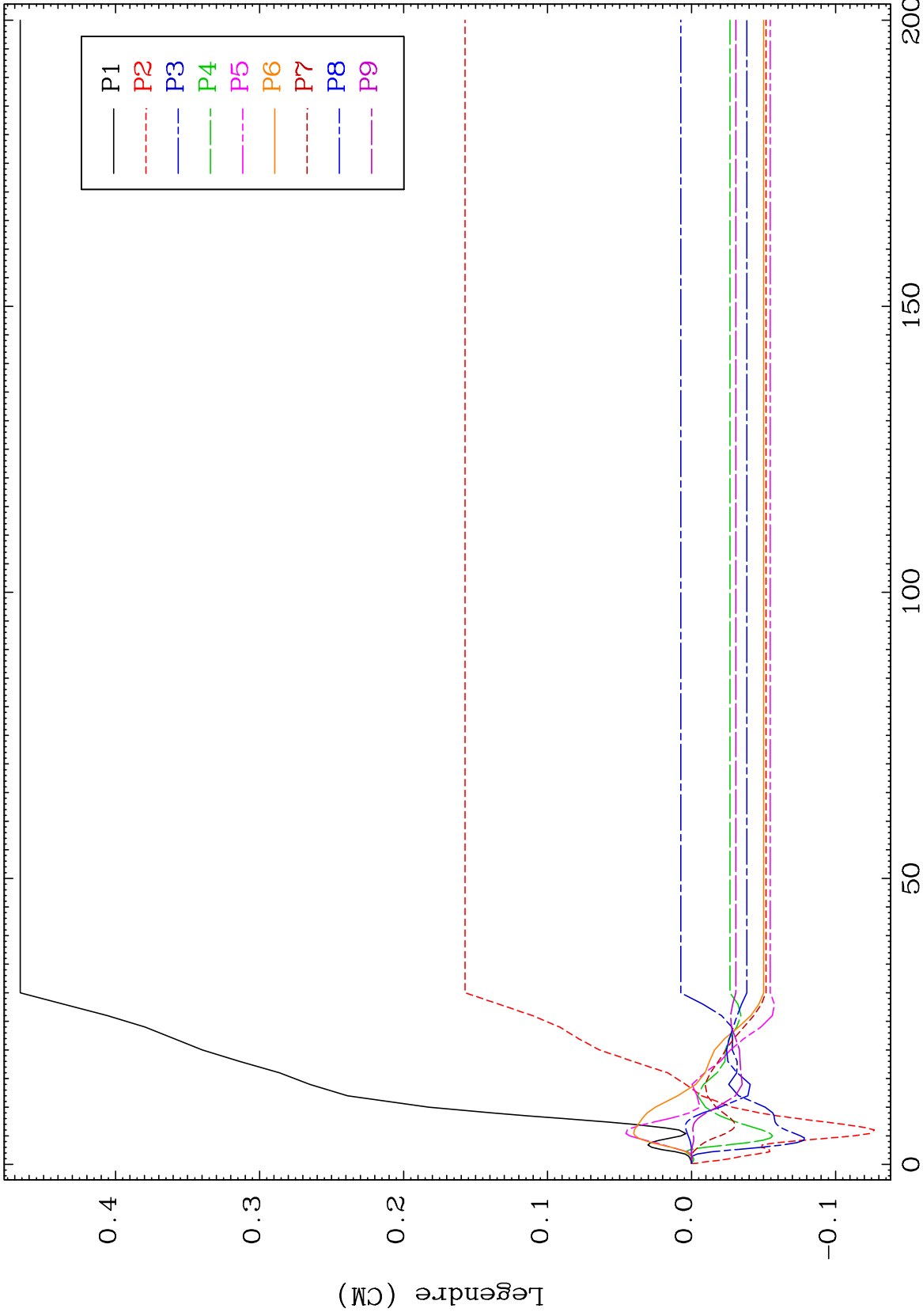
Incident Energy (MeV)

22

MAT 6152

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

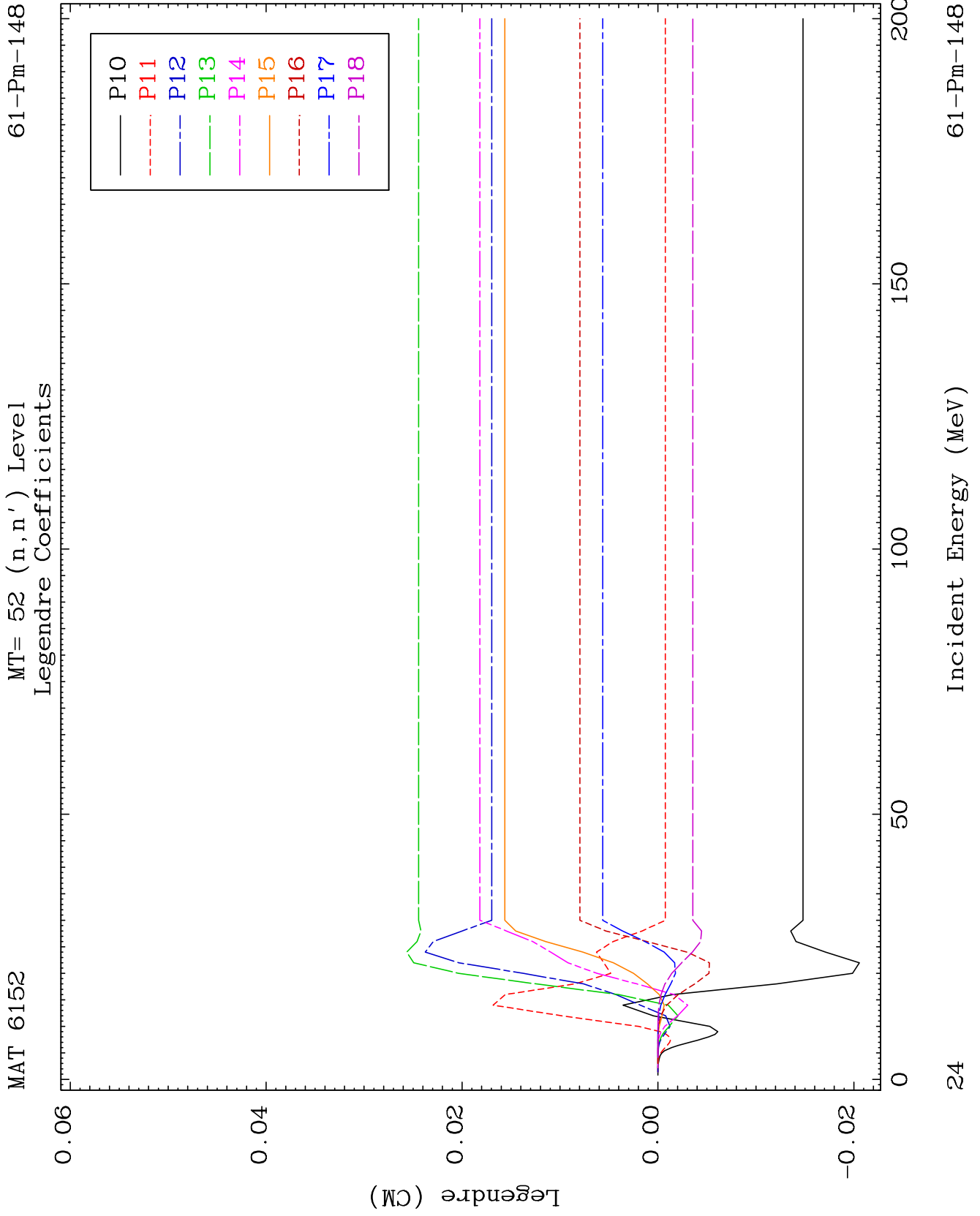
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23

Incident Energy (MeV)

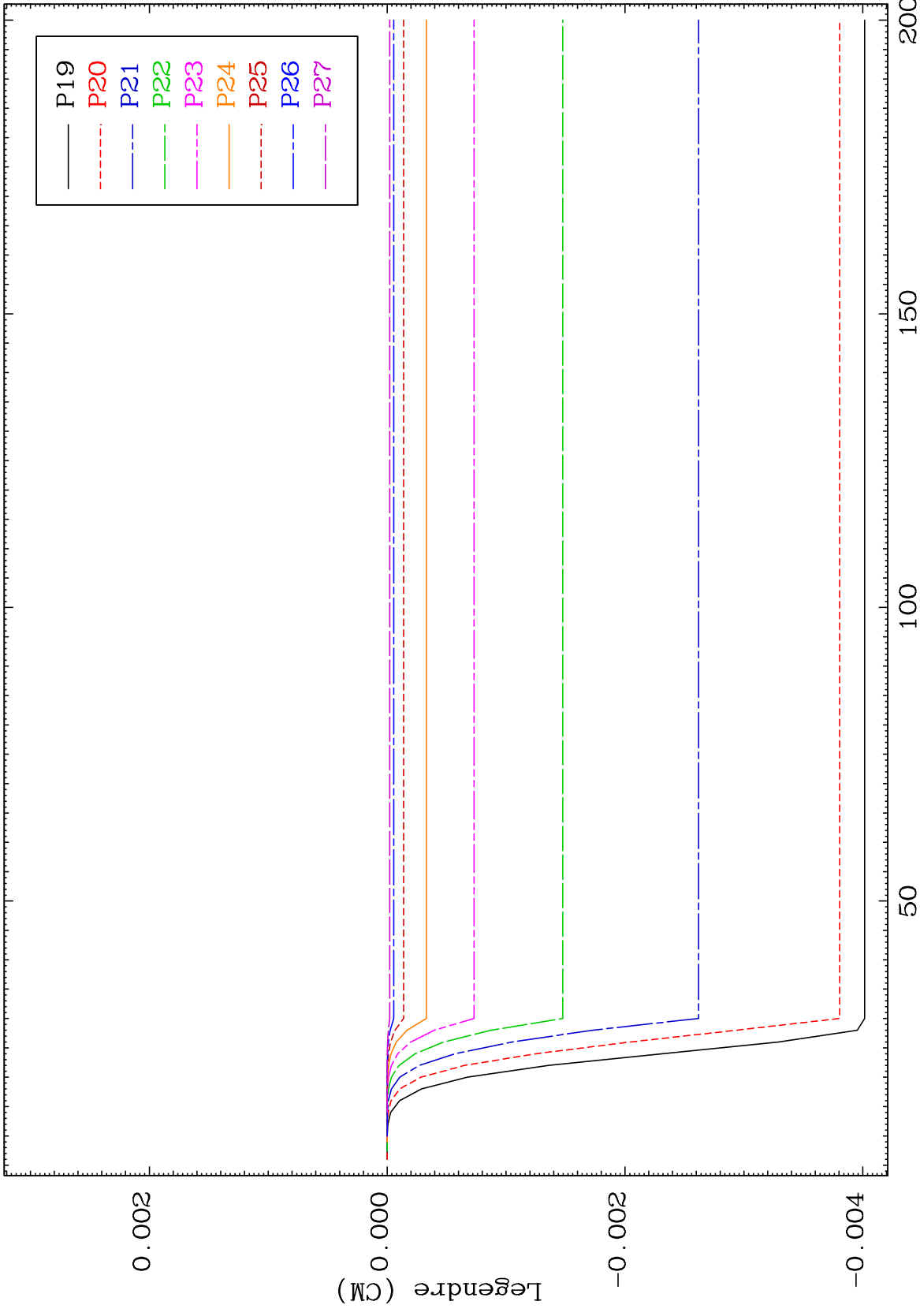
61-Pm-148



MAT 6152

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

61-Pm-148



25

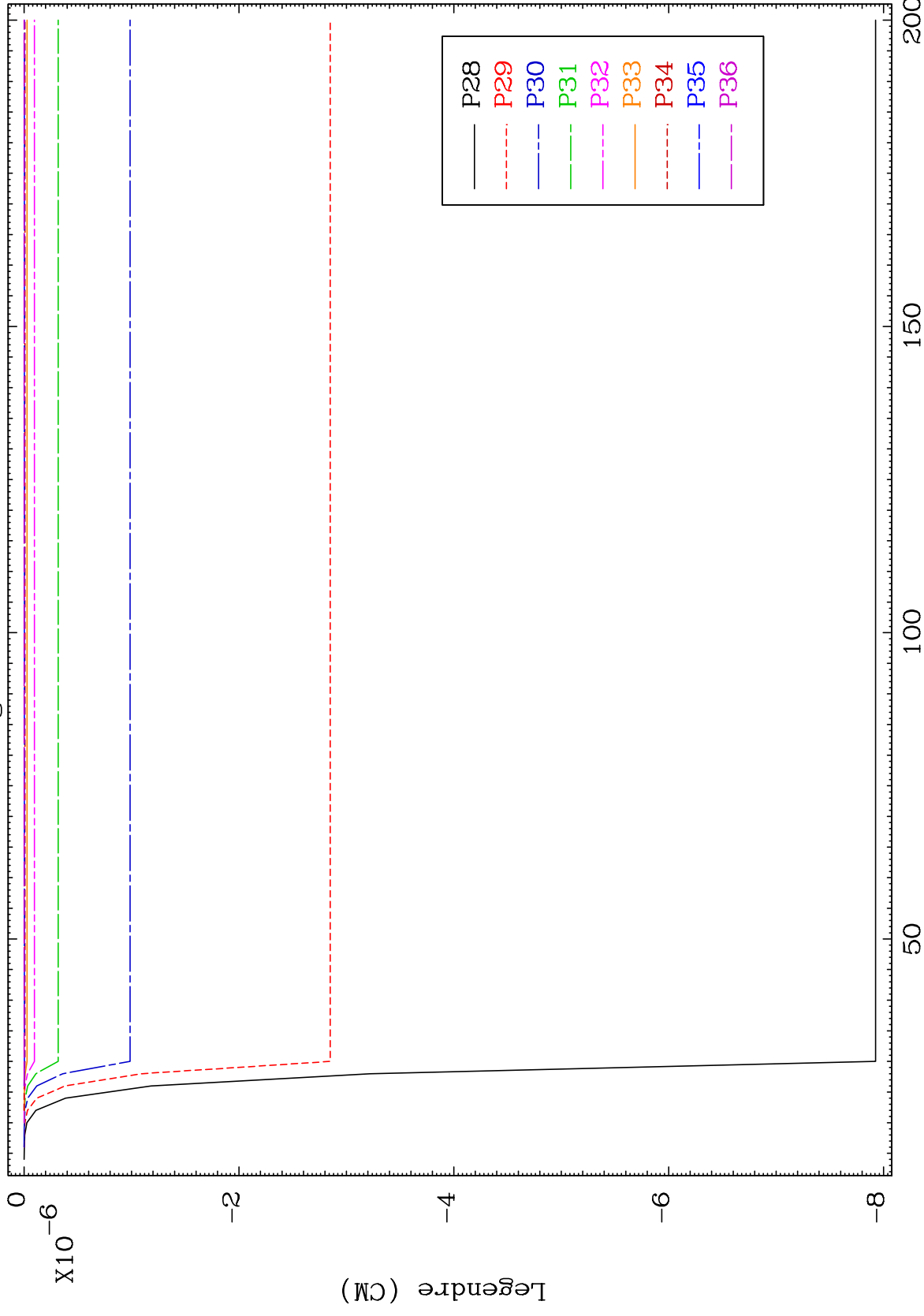
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



61-Pm-148

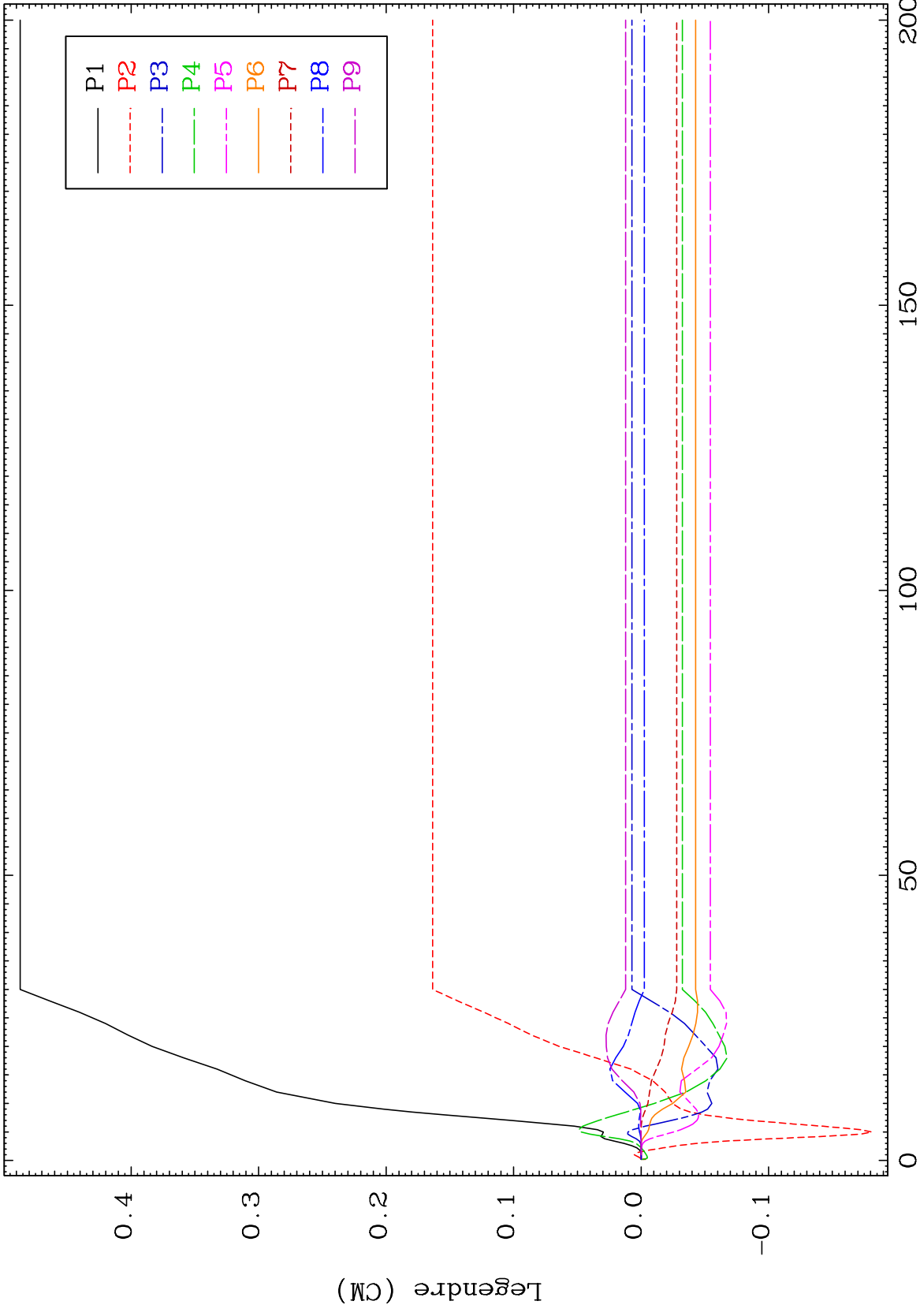
Incident Energy (MeV)

26

MAT 6152

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

61-Pm-148



27

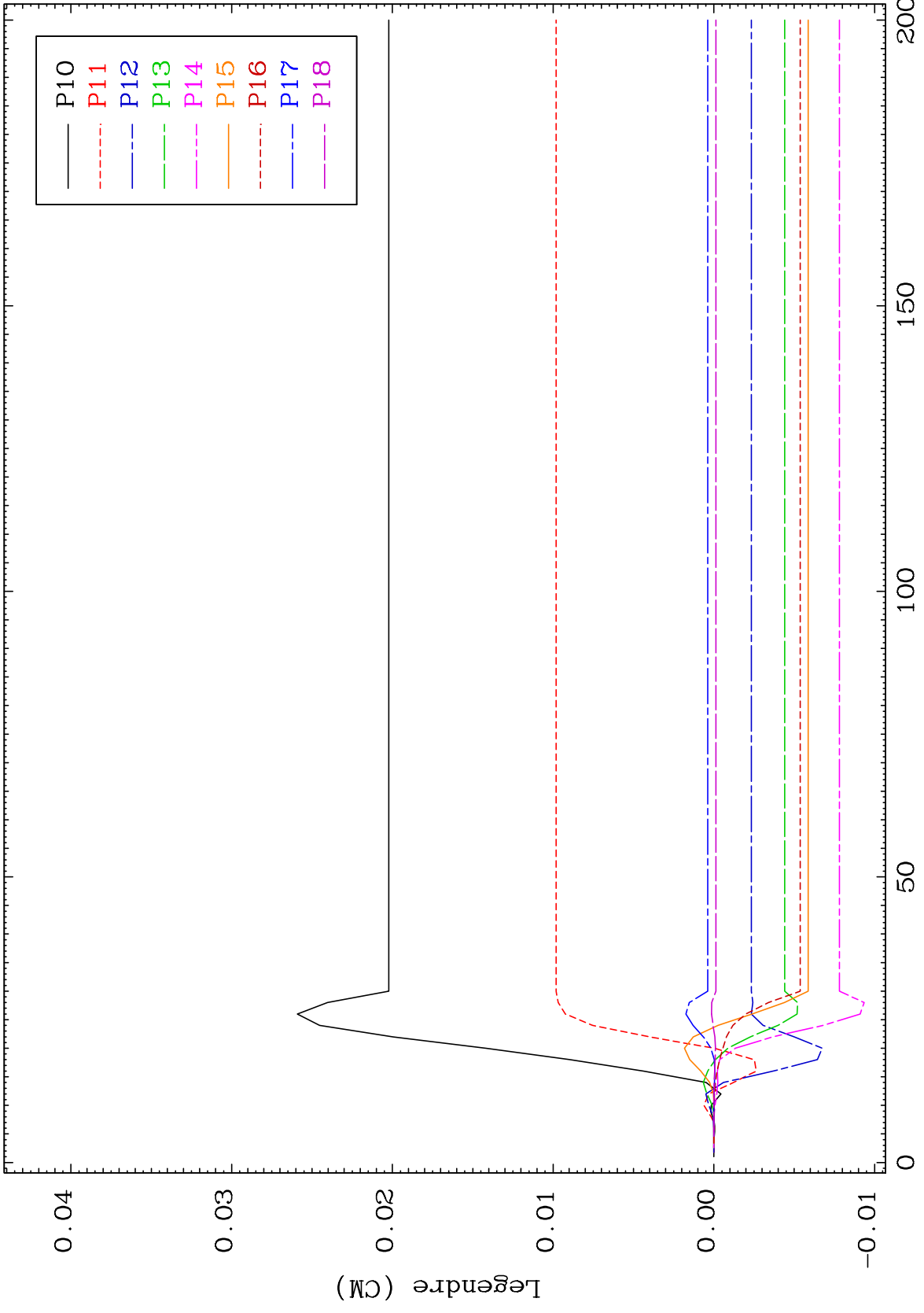
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



28

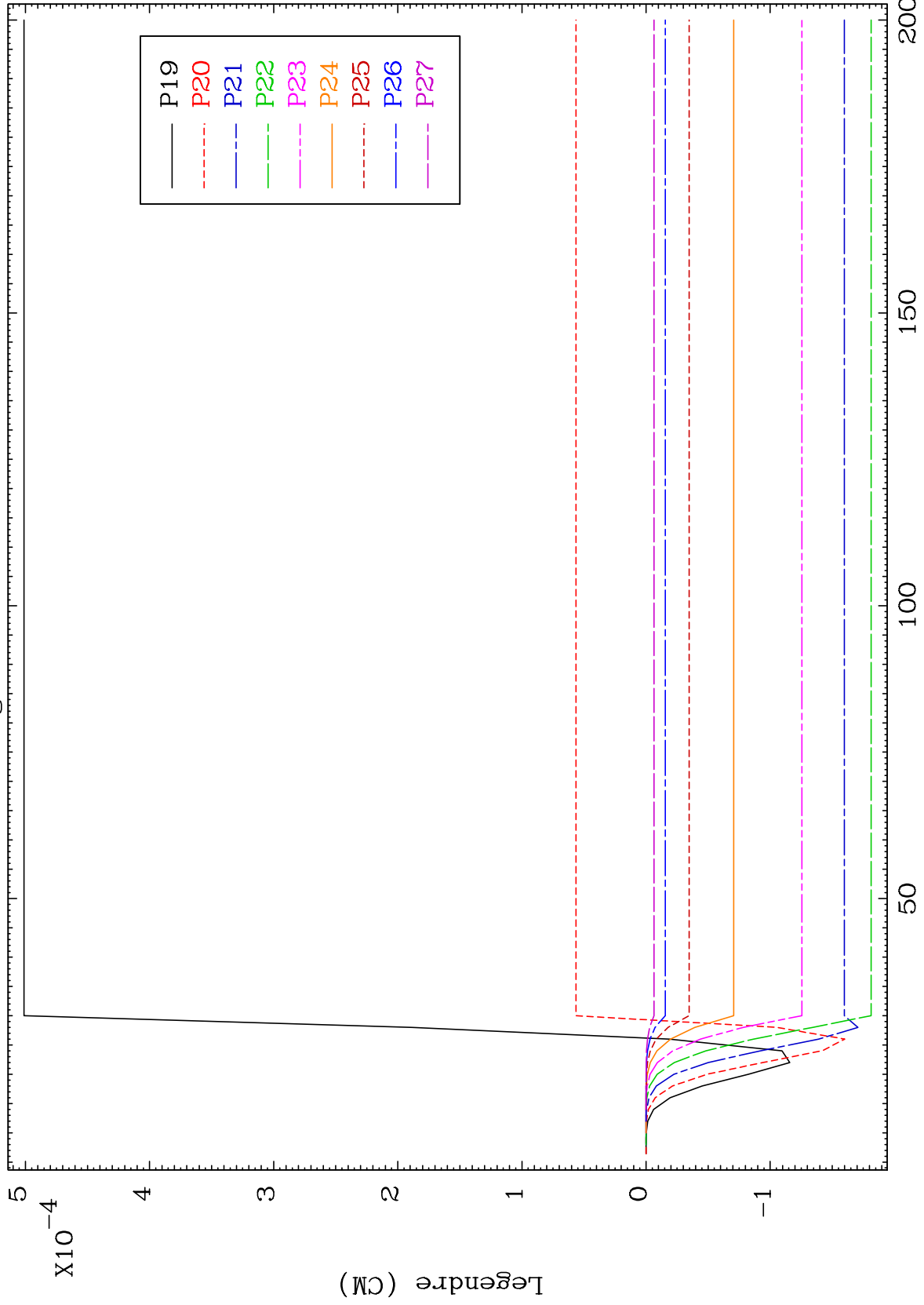
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



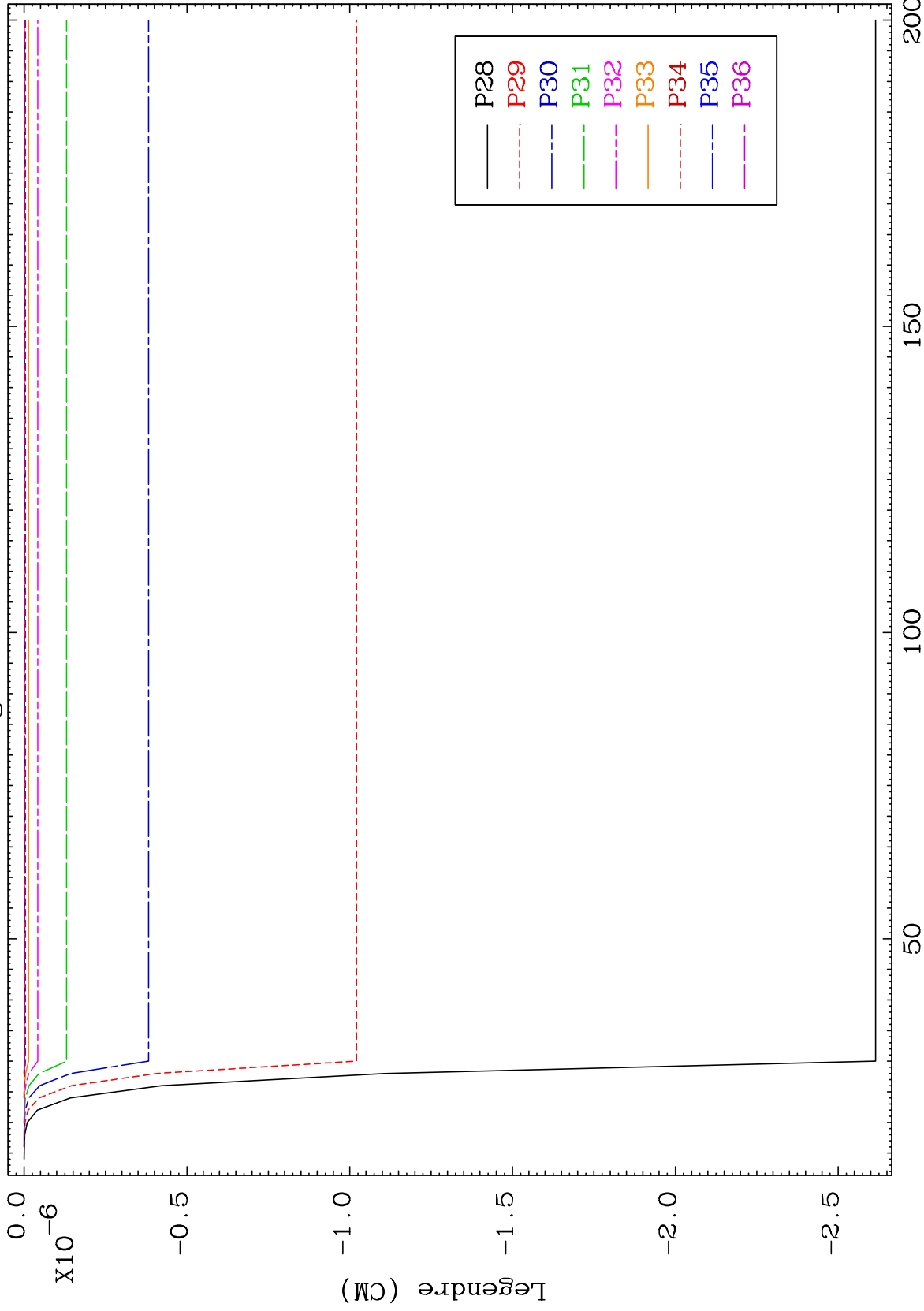
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61-Pm-148

MAT 6152

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

61-Pm-148

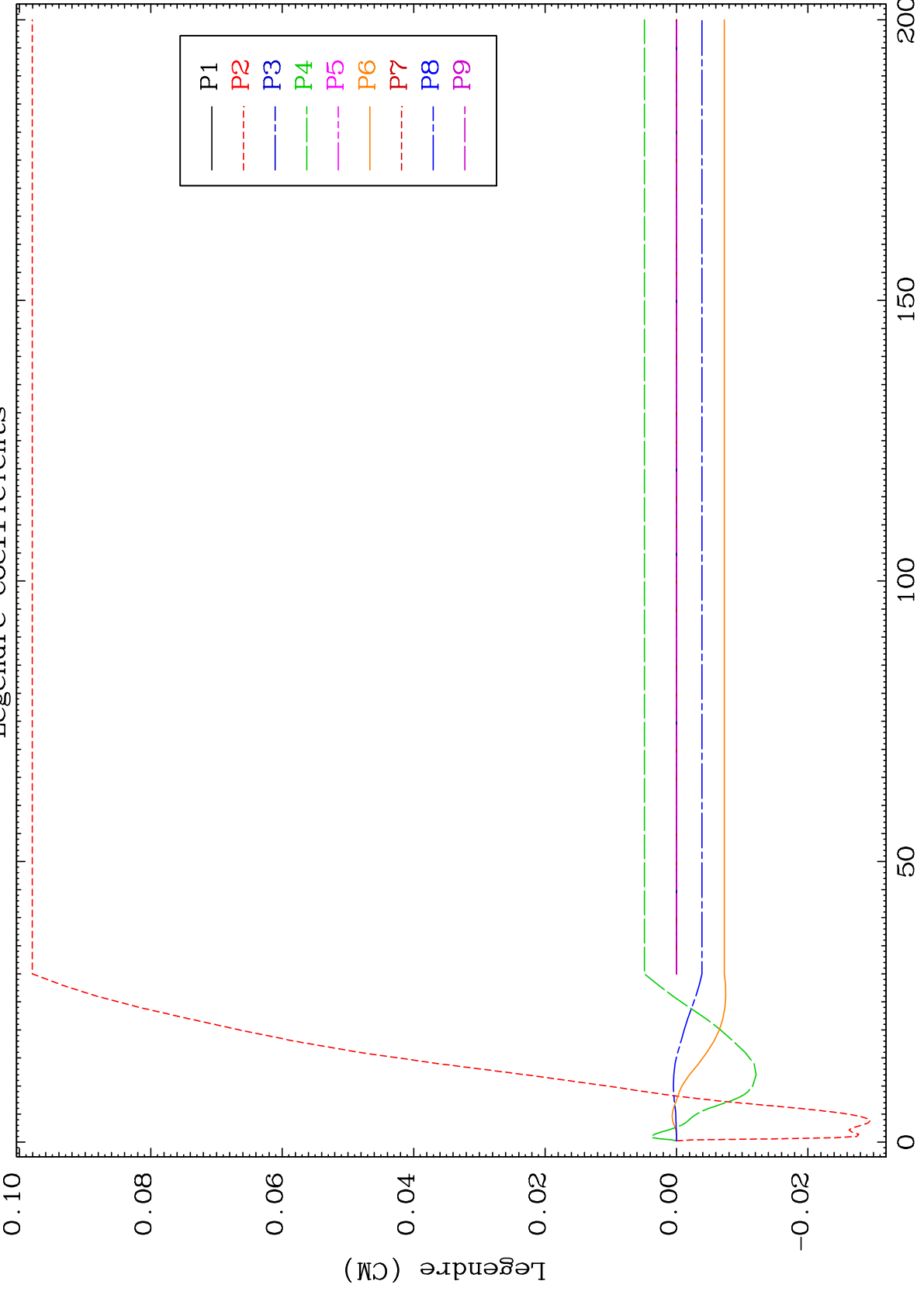


61-Pm-148

Incident Energy (MeV)

30

MAT 6152 MT= 54 (n,n') Level Legendre Coefficients 61-Pm-148

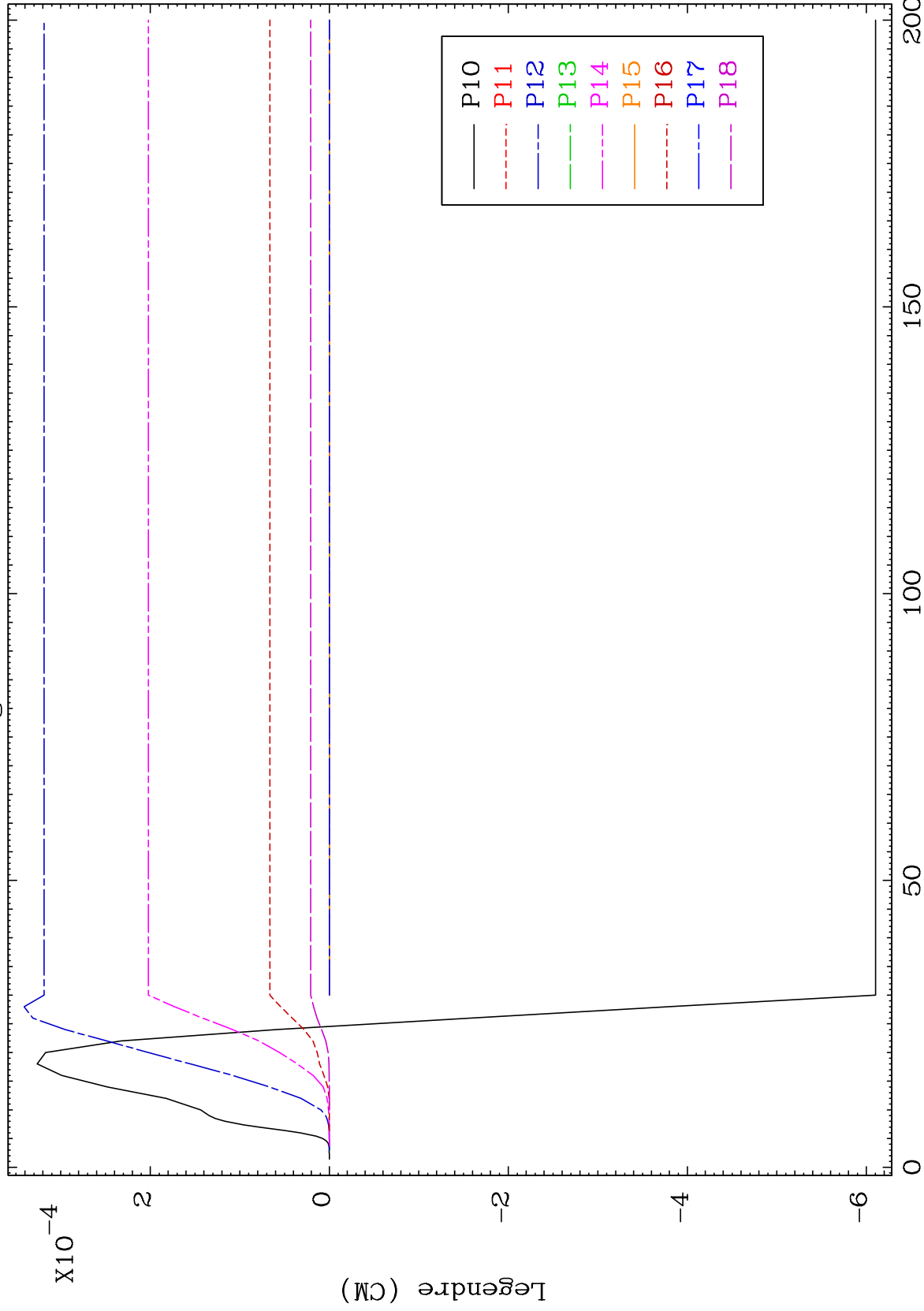


31 61-Pm-148

MAT 6152

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

61-Pm-148



32

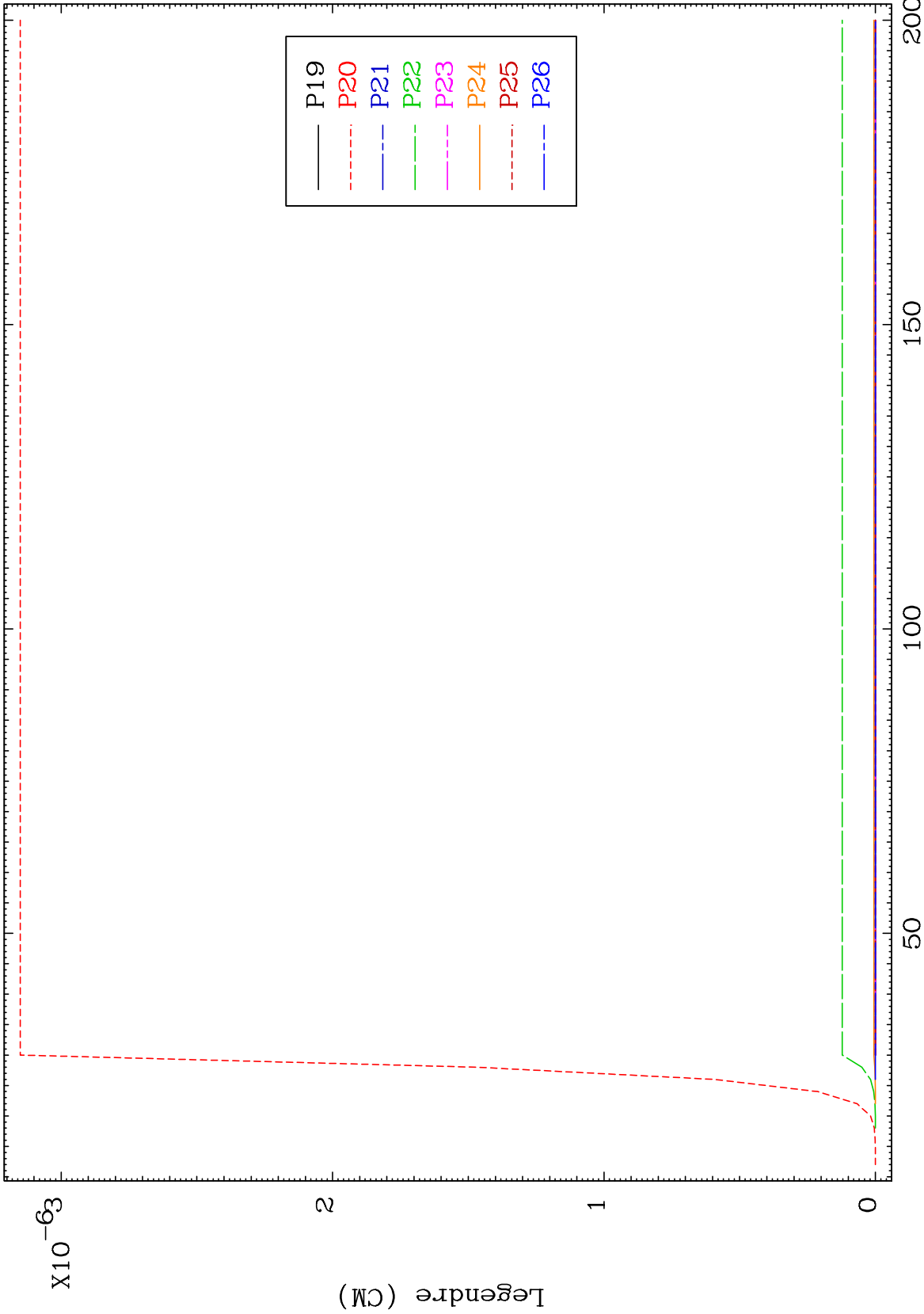
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148

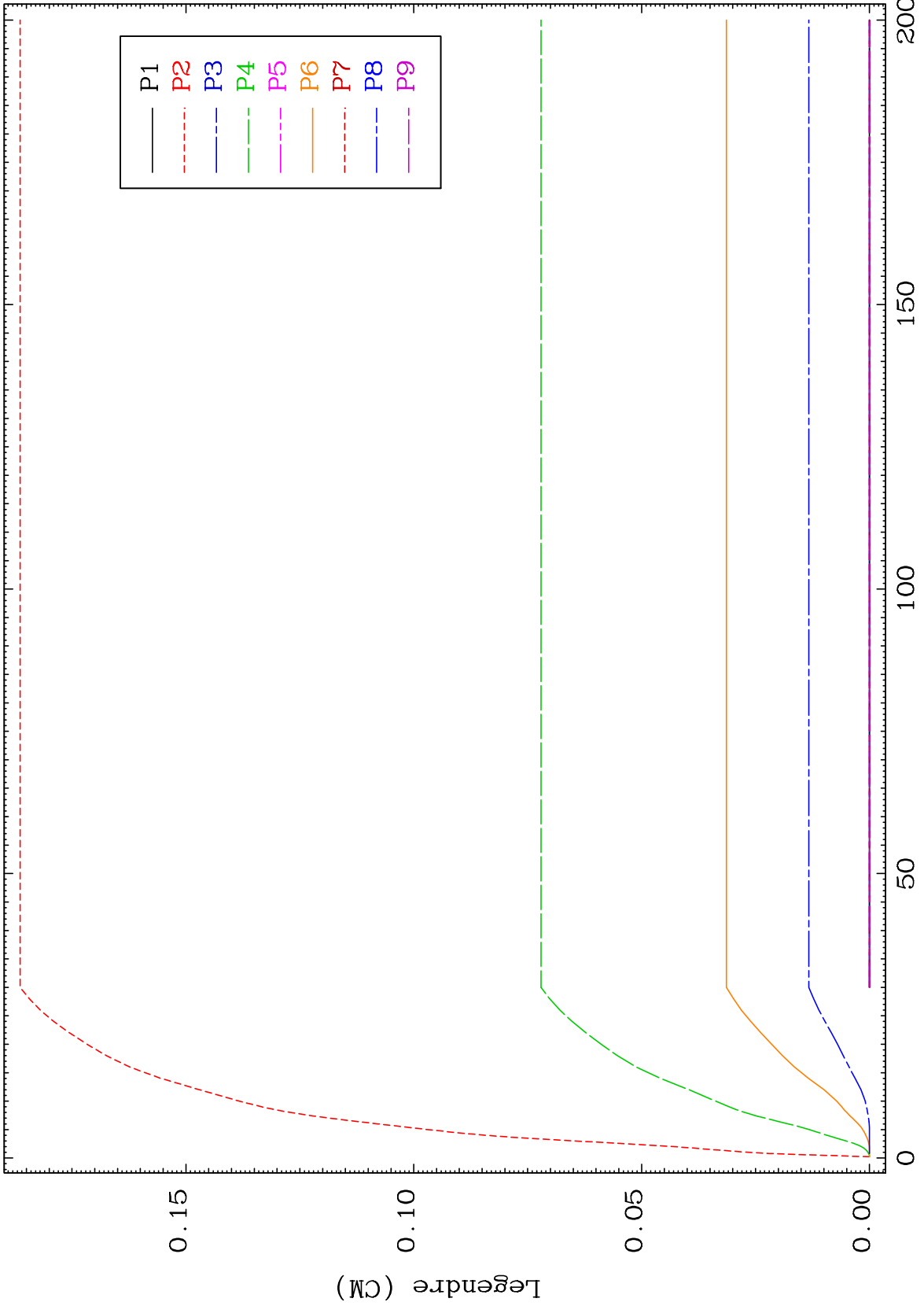


33

Incident Energy (MeV)

61-Pm-148

MAT 6152 MT= 55 (n,n') Level Legendre Coefficients 61-Pm-148

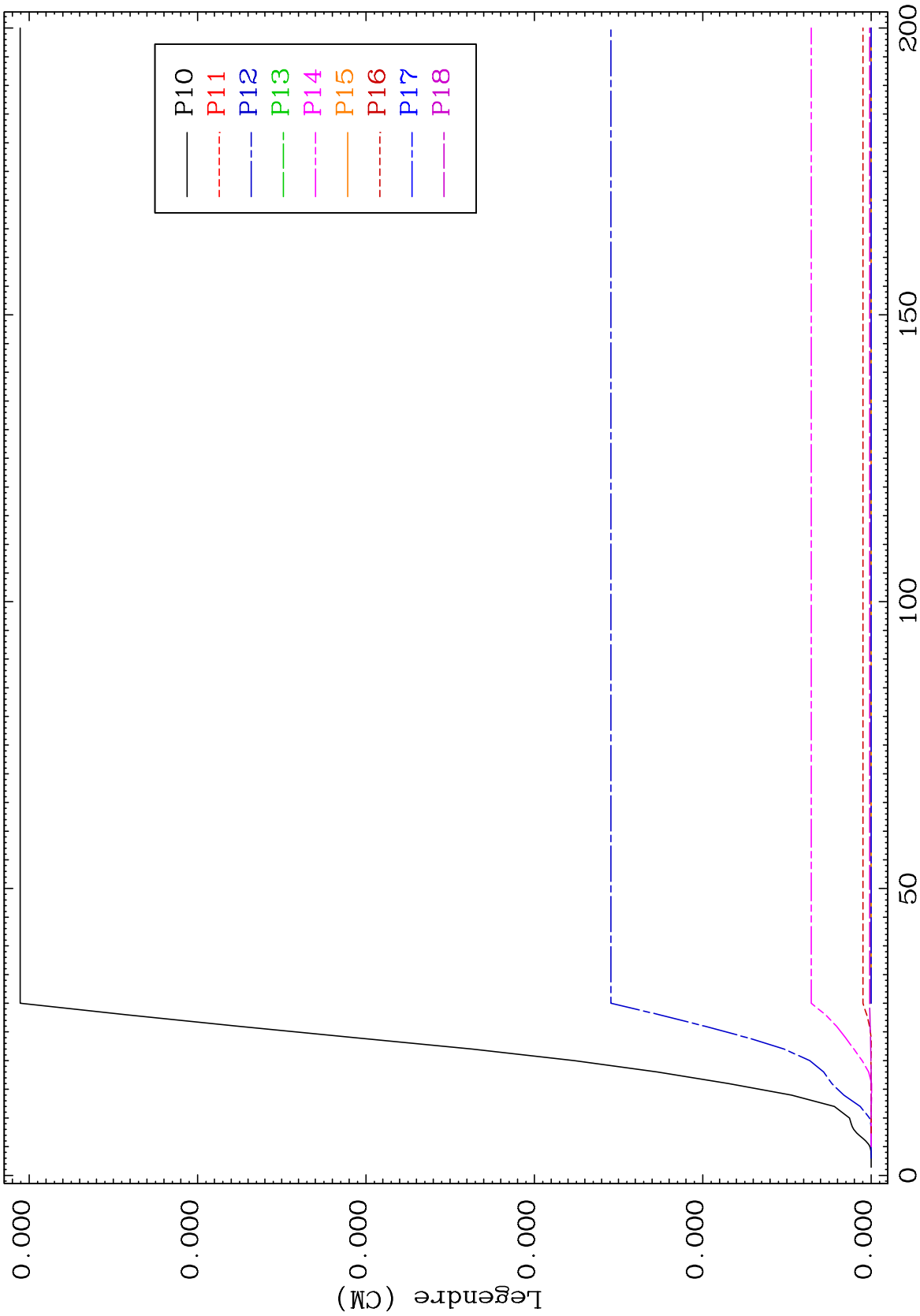


34 61-Pm-148

MAT 6152

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

61-Pm-148

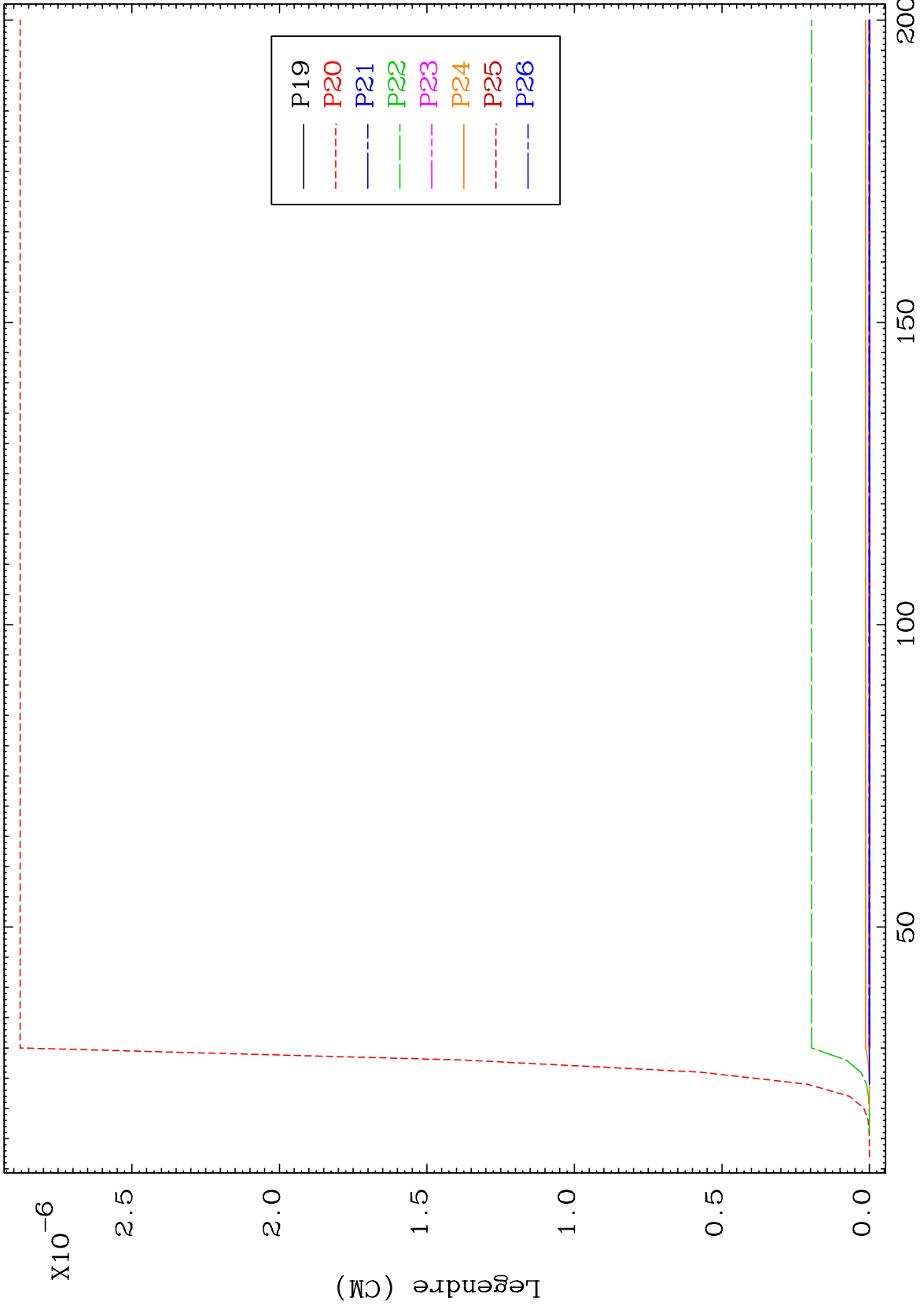


35

Incident Energy (MeV)

61-Pm-148

MAT 6152 MT= 55 (n,n') Level Legendre Coefficients 61-Pm-148

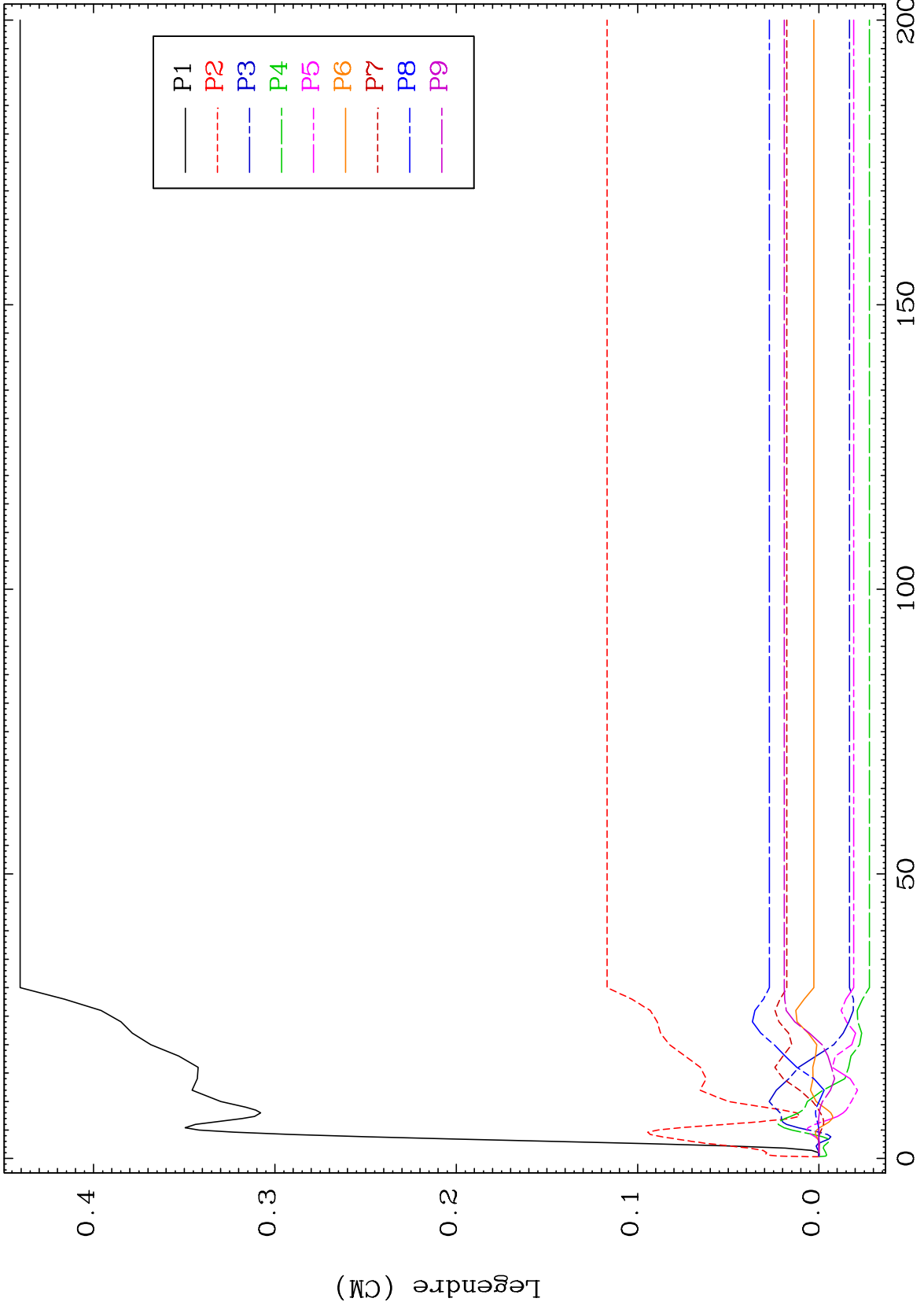


36 50 100 150 200 61-Pm-148

MAT 6152

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

61-Pm-148



37

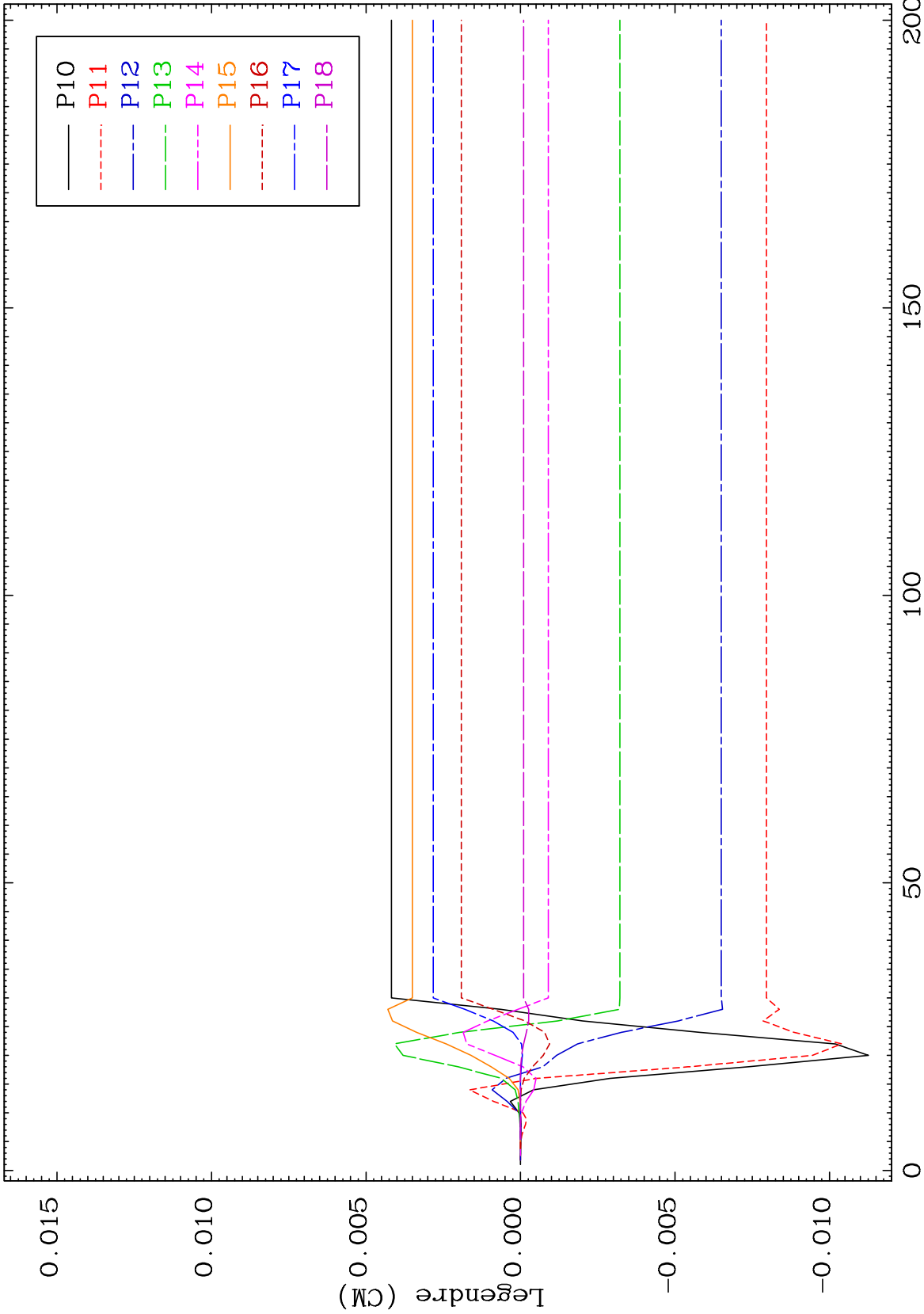
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



38

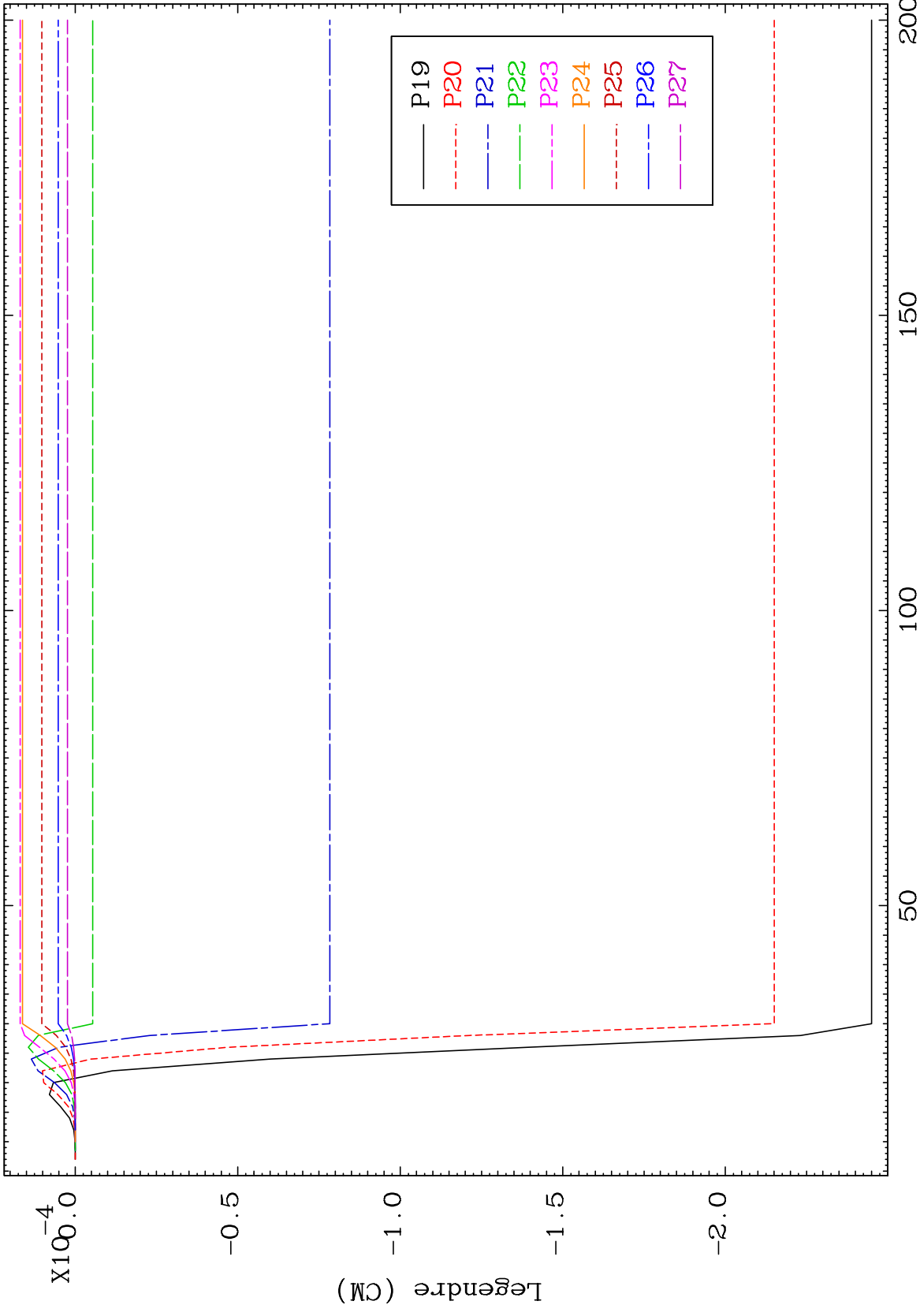
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



61-Pm-148

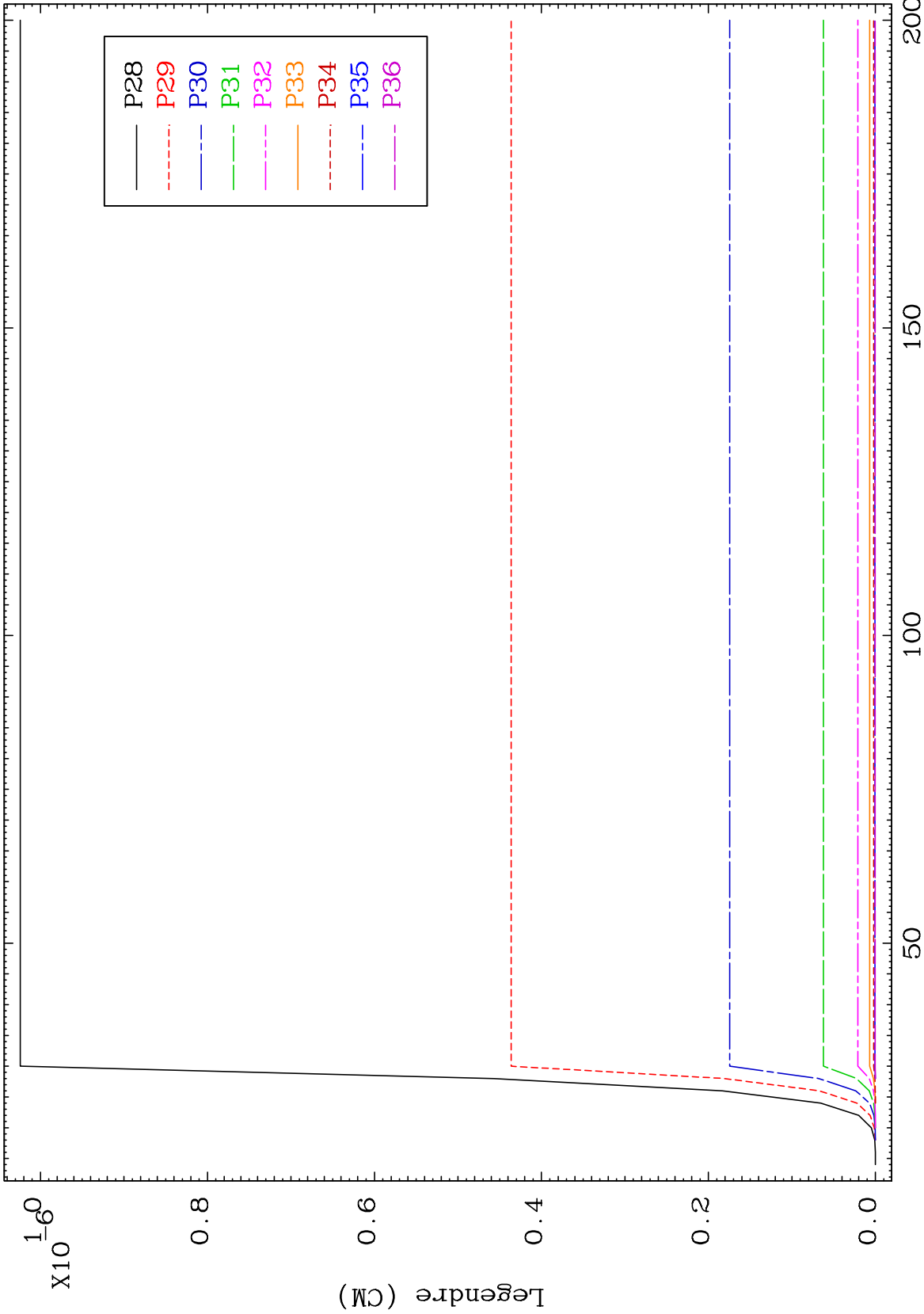
Incident Energy (MeV)

39

MAT 6152

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

61-Pm-148



40

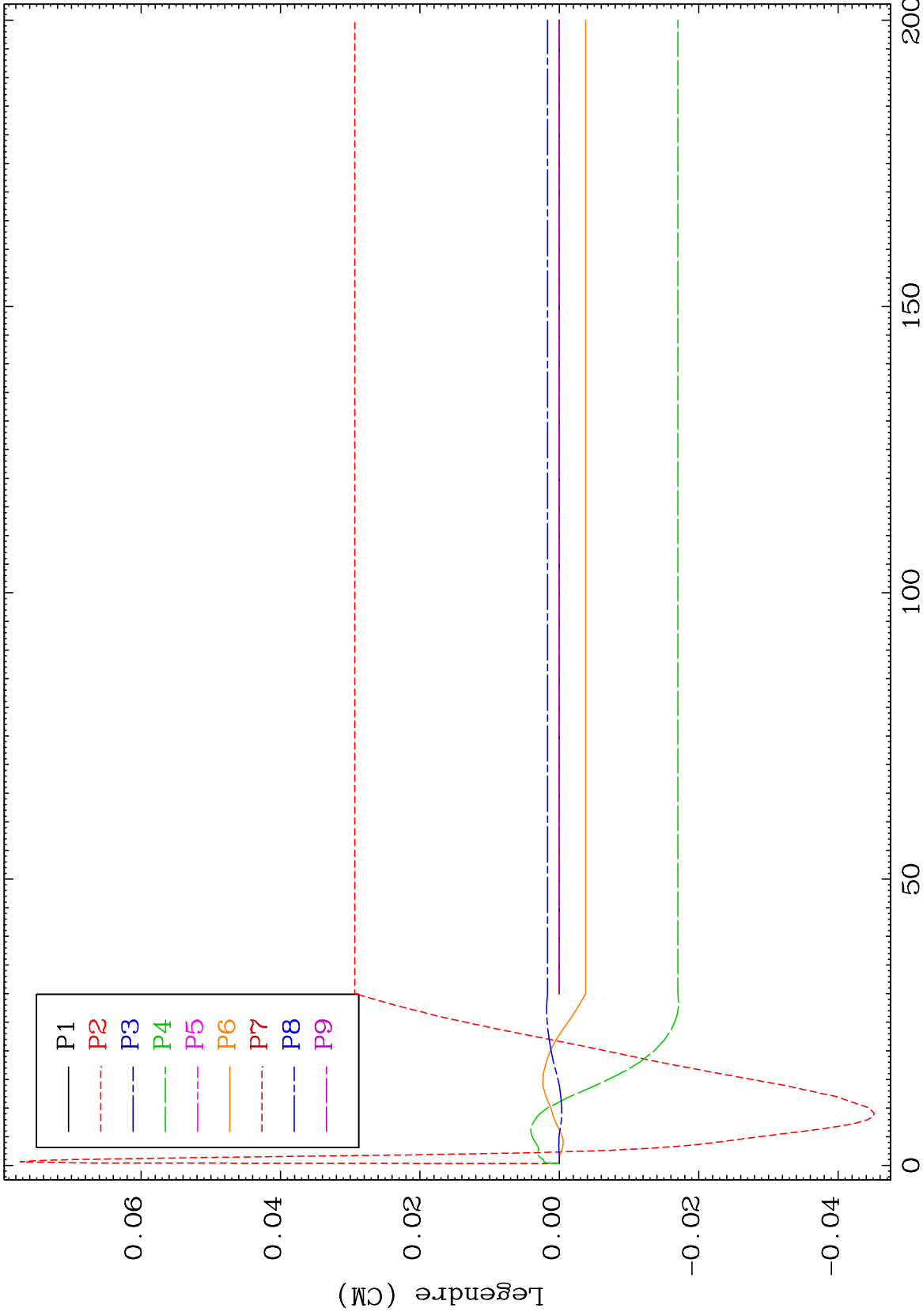
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



41

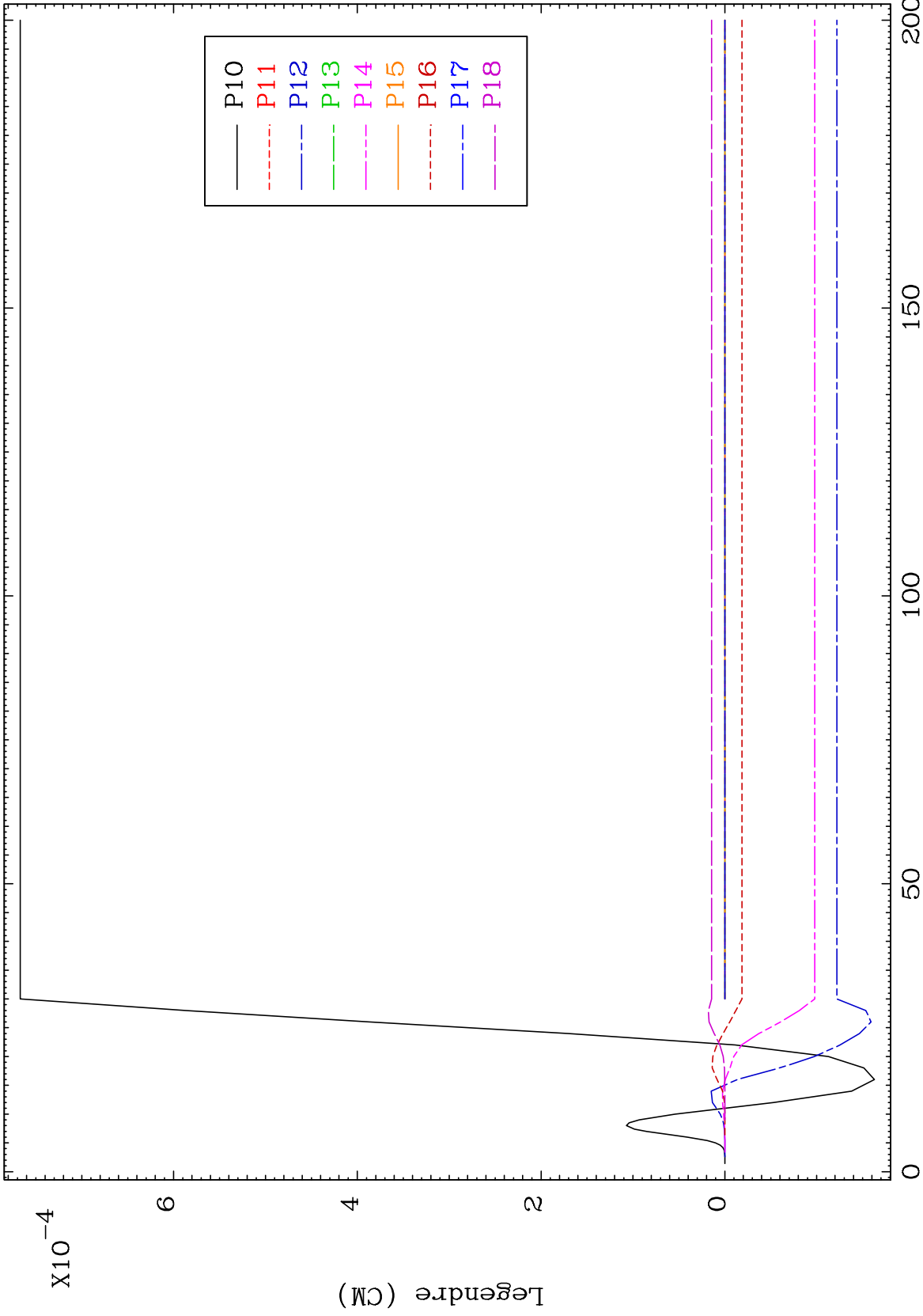
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



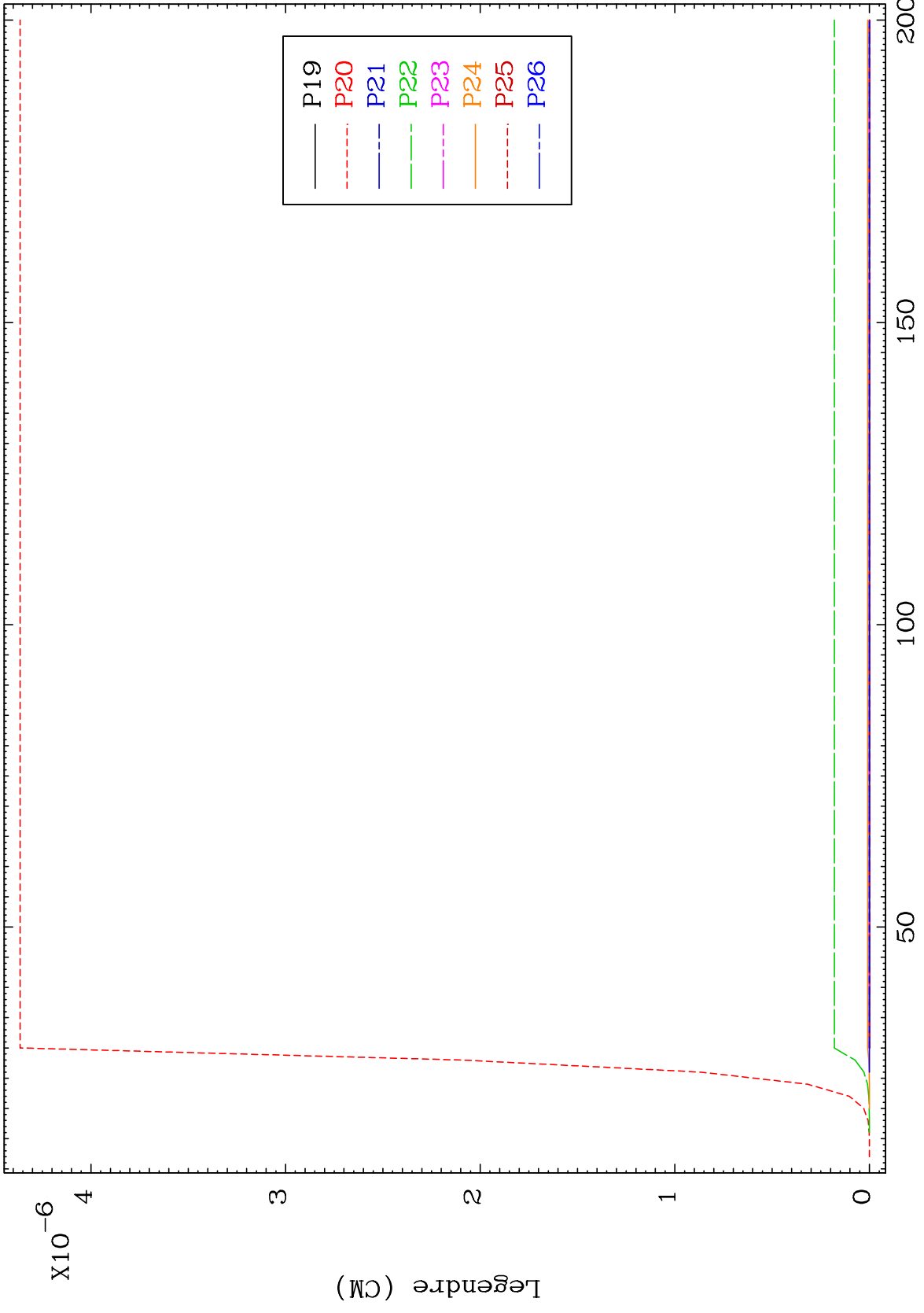
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MAT 6152

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

61-Pm-148

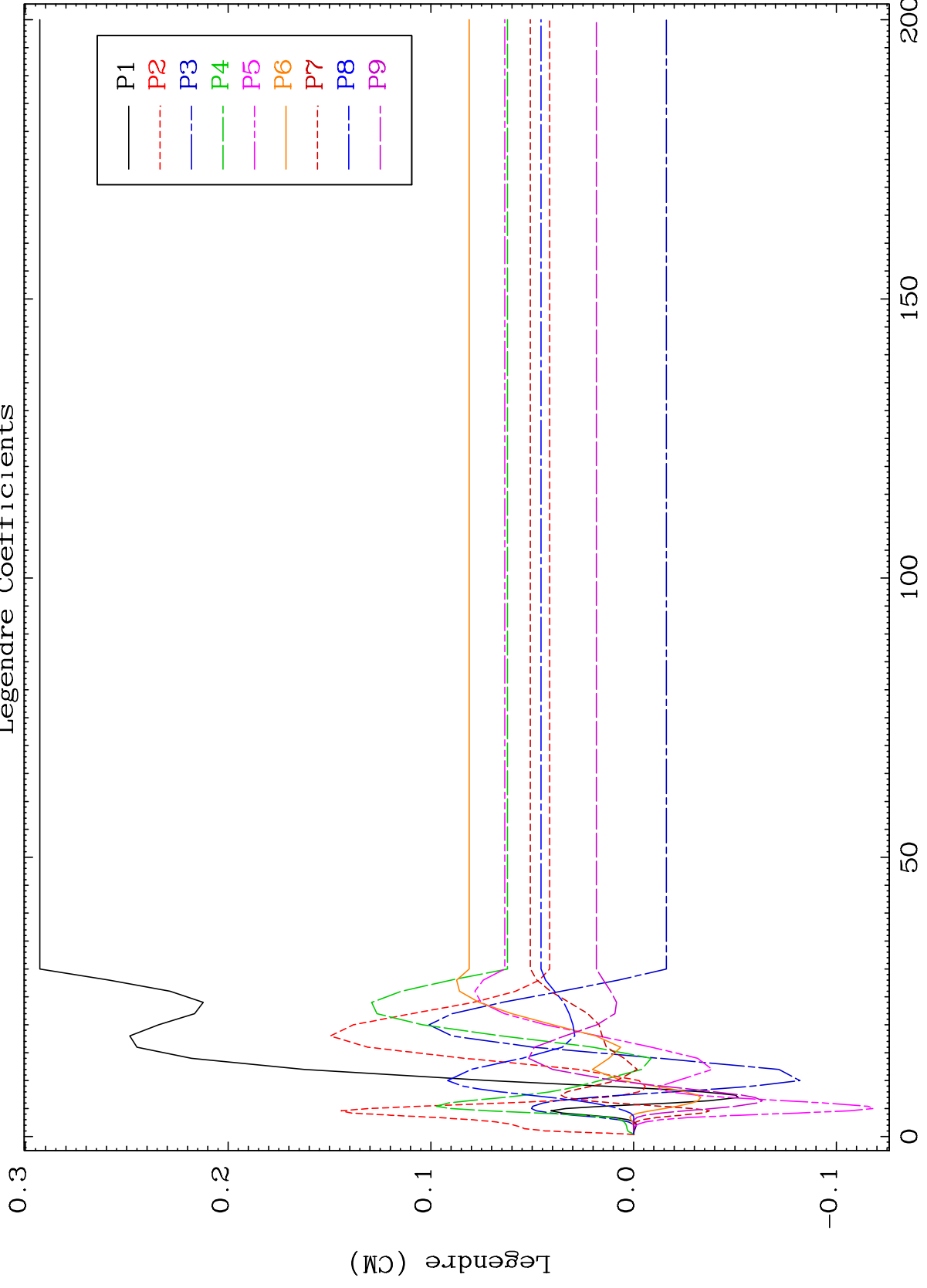


43

Incident Energy (MeV)

61-Pm-148

MAT 6152 MT= 58 (n,n') Level Legendre Coefficients 61-Pm-148

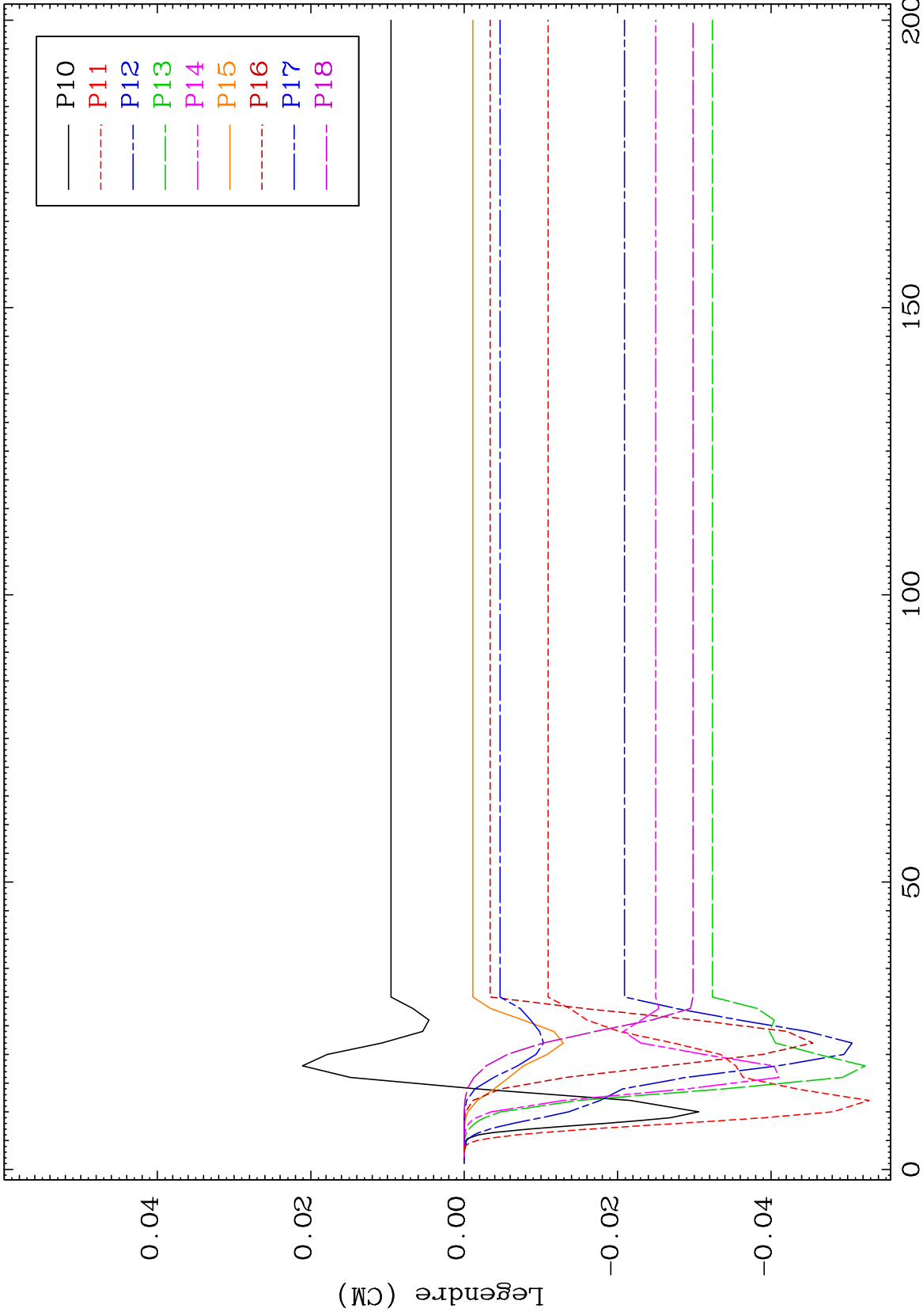


44 61-Pm-148

MAT 6152

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

61-Pm-148



45

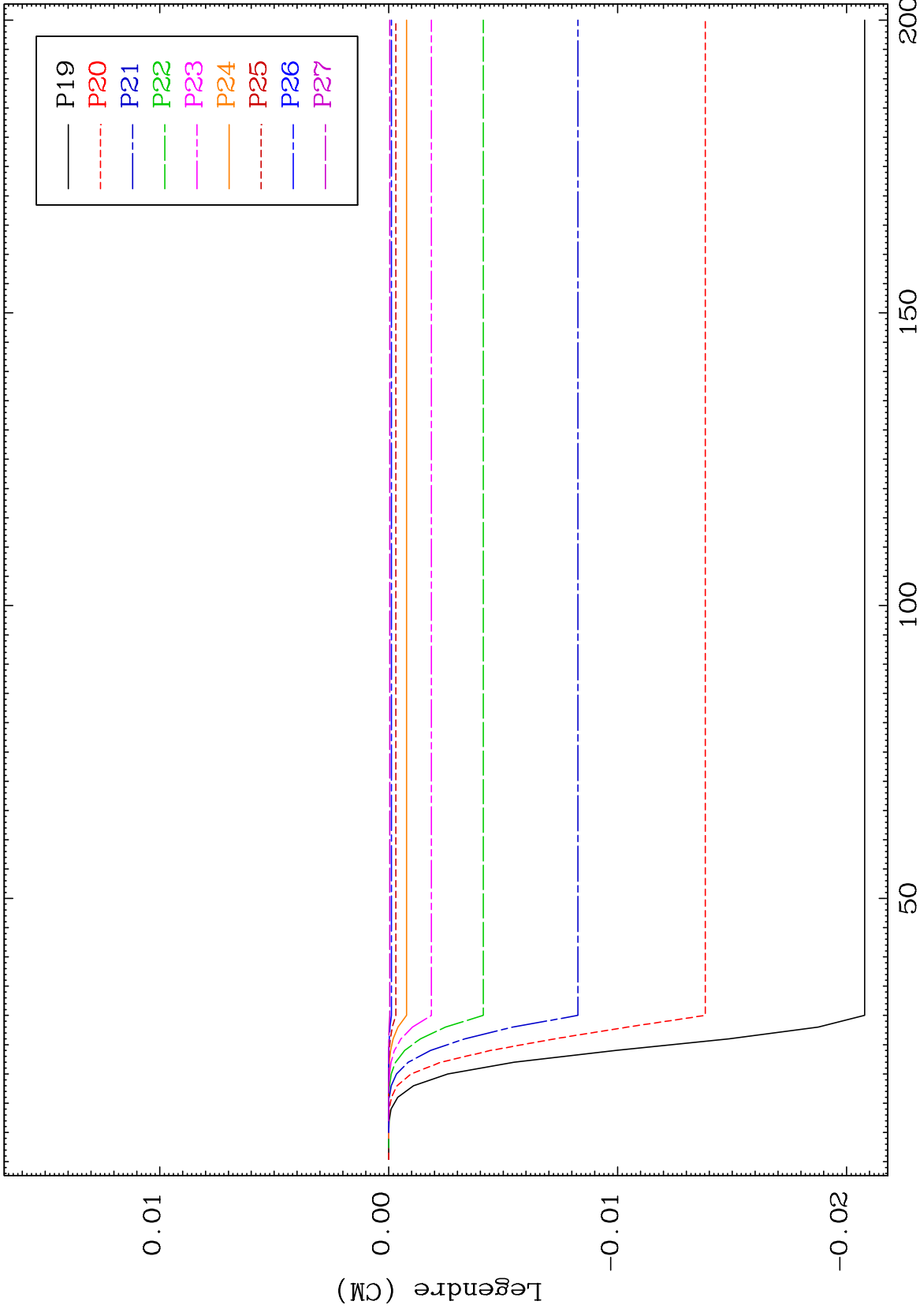
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



46

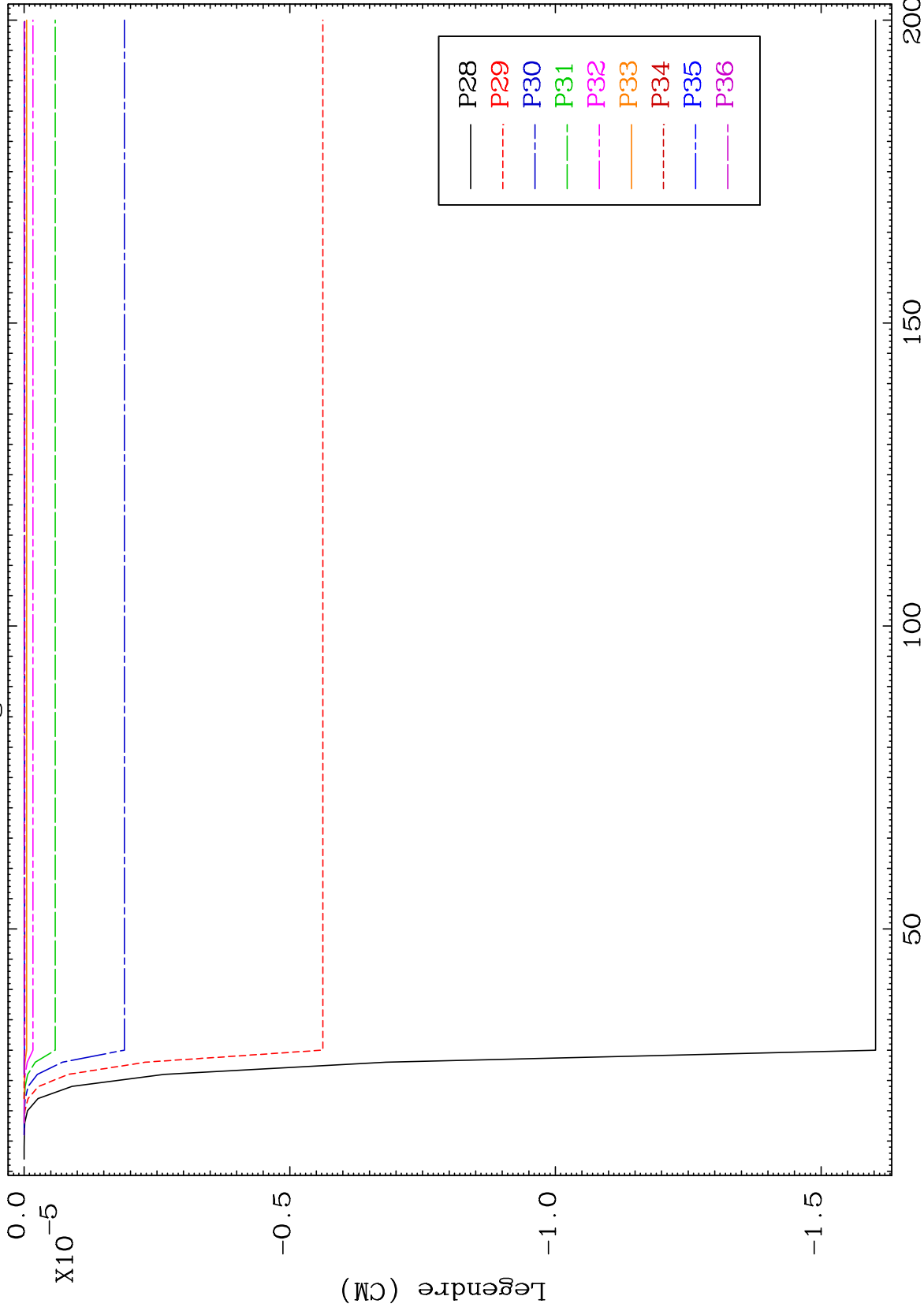
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



61-Pm-148

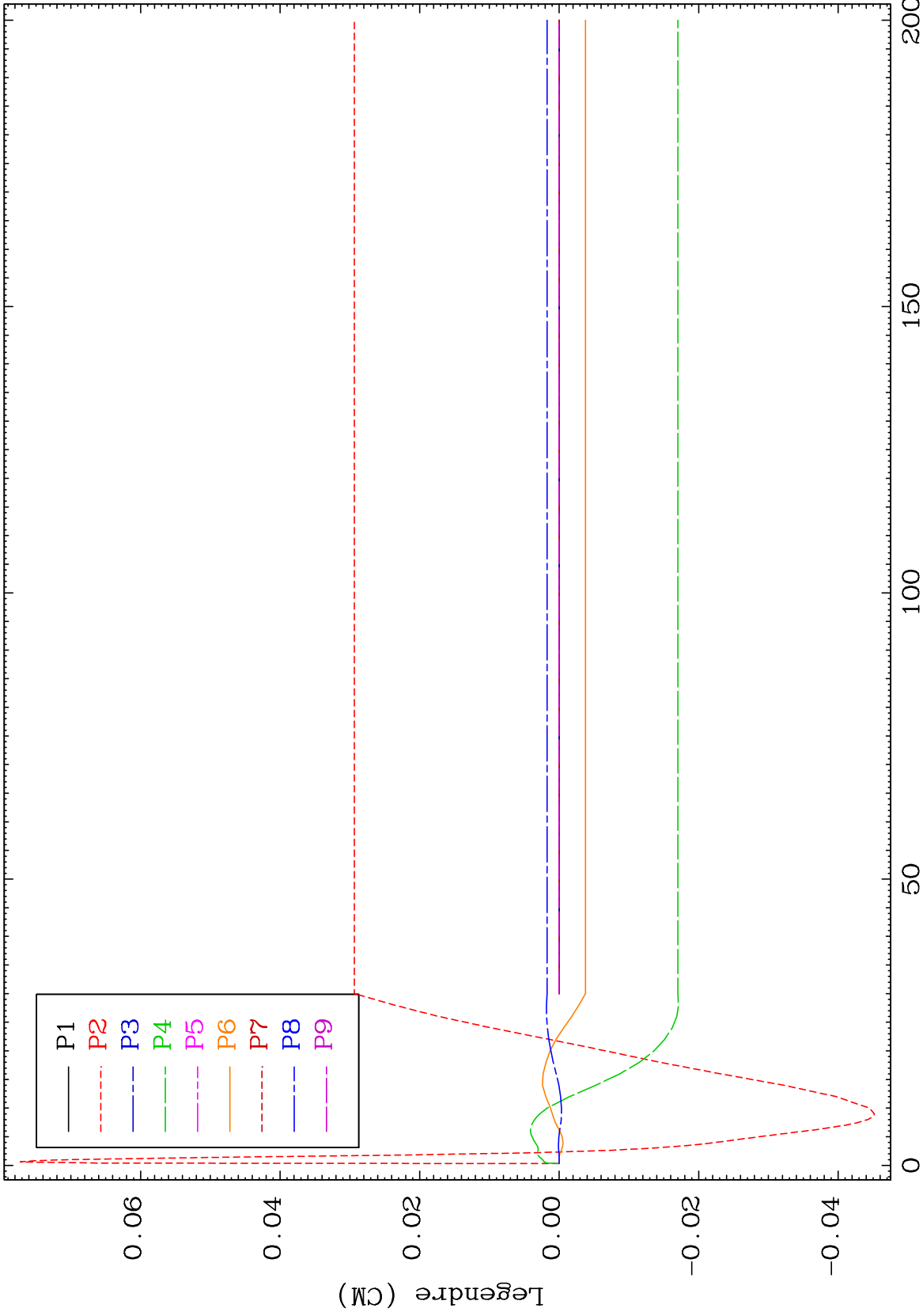
Incident Energy (MeV)

47

MAT 6152

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

61-Pm-148



48

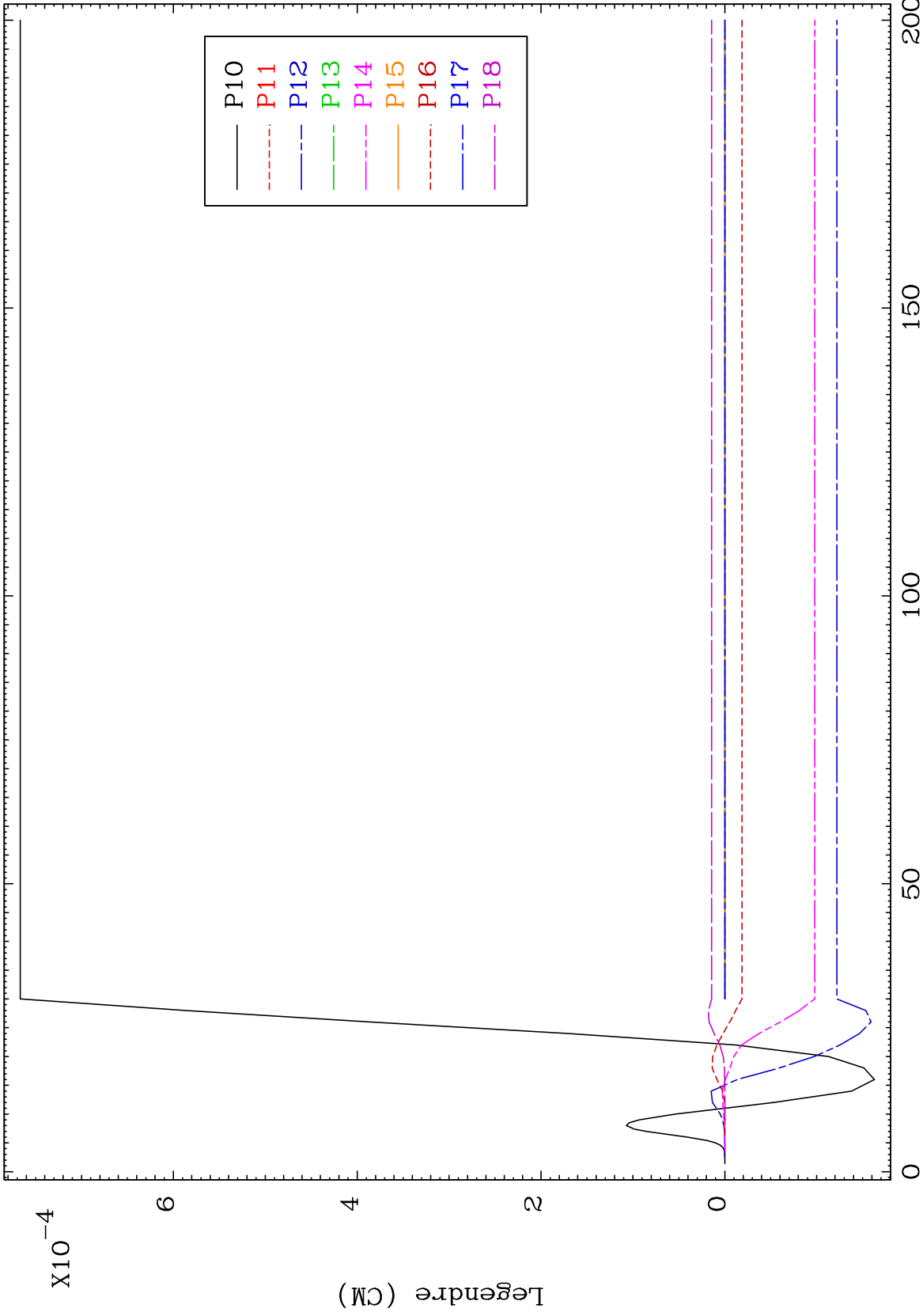
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148

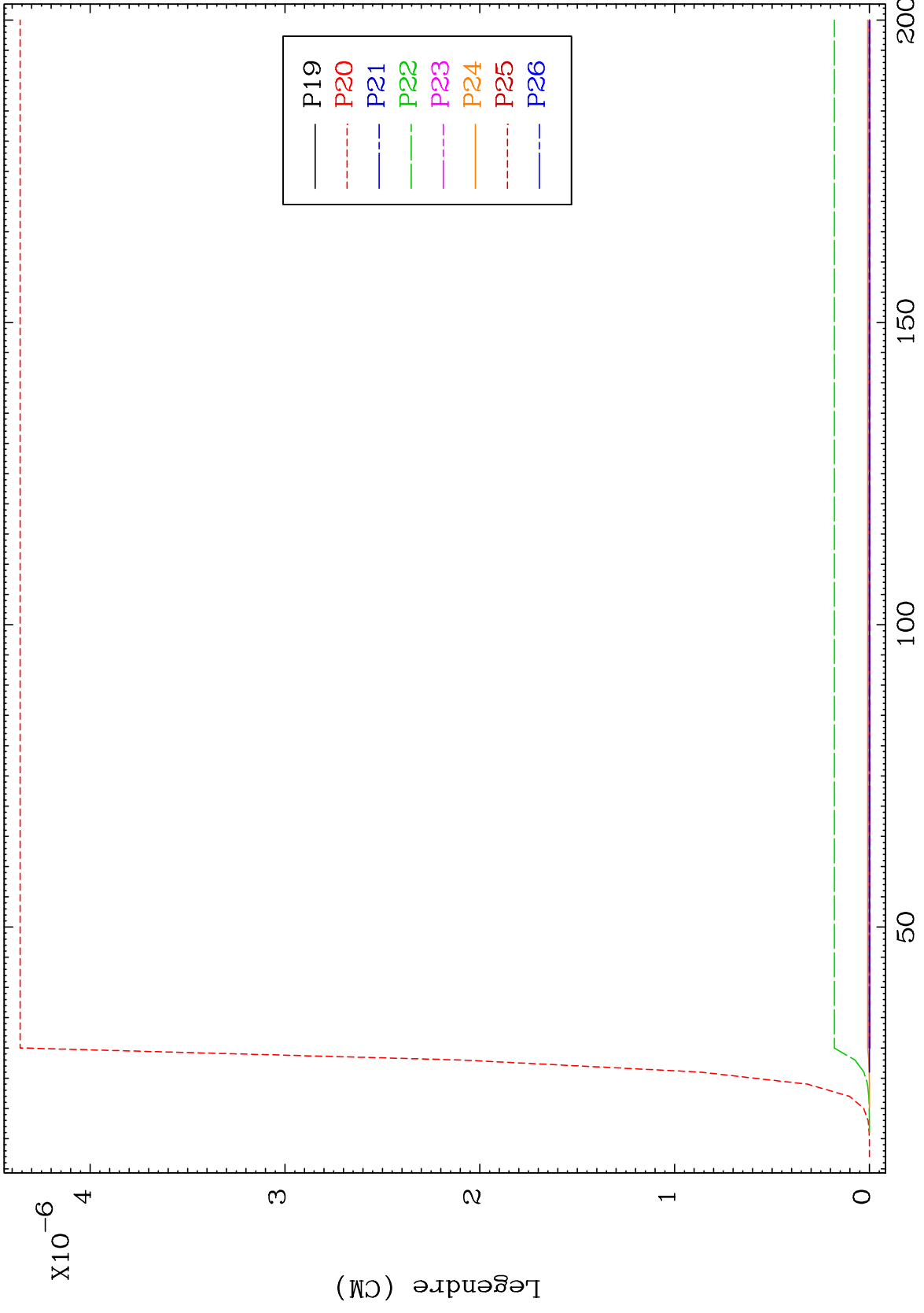


49

Incident Energy (MeV)

61-Pm-148

MAT 6152 MT= 59 (n,n') Level Legendre Coefficients 61-Pm-148

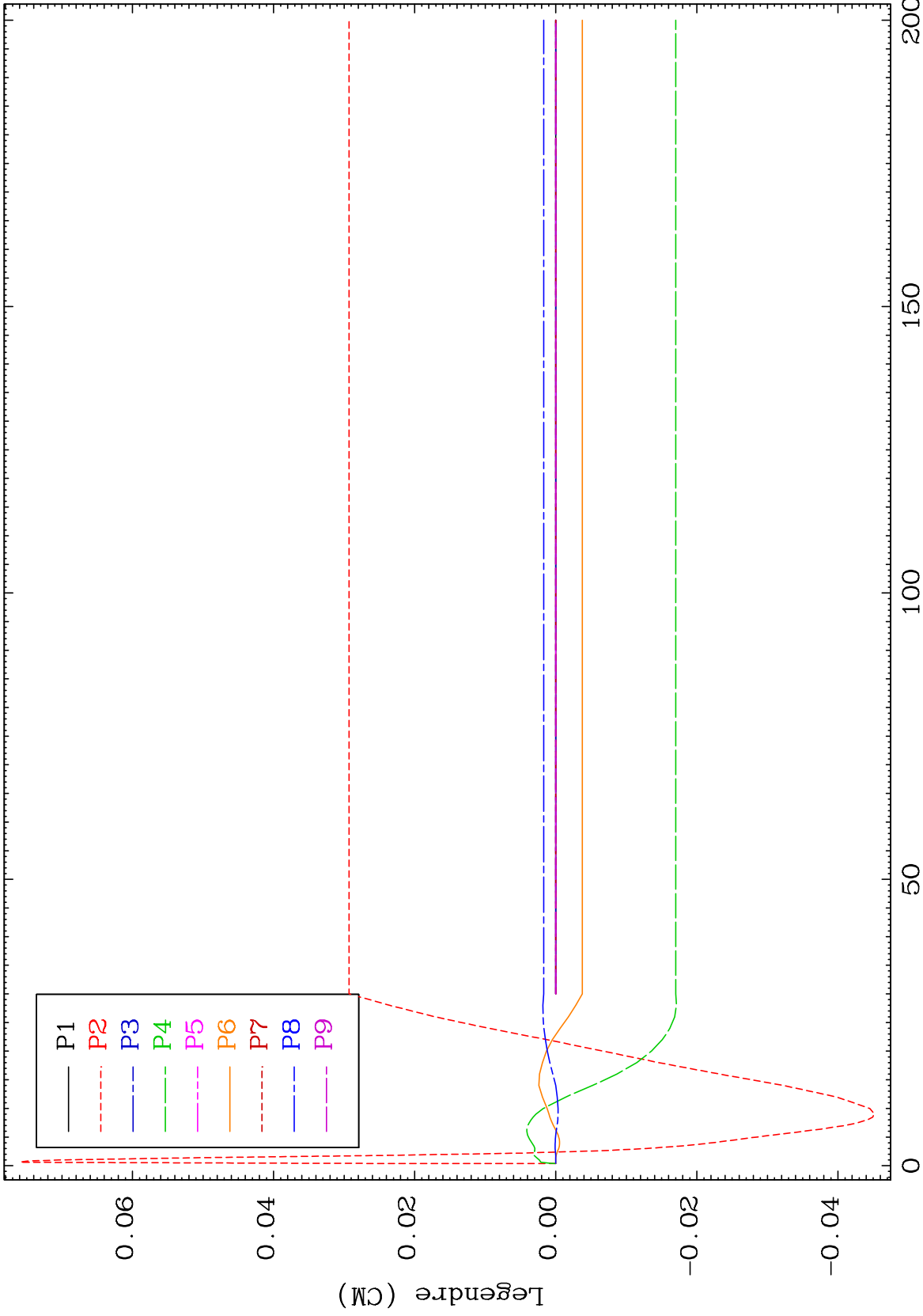


61-Pm-148

MAT 6152

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

61-Pm-148



51

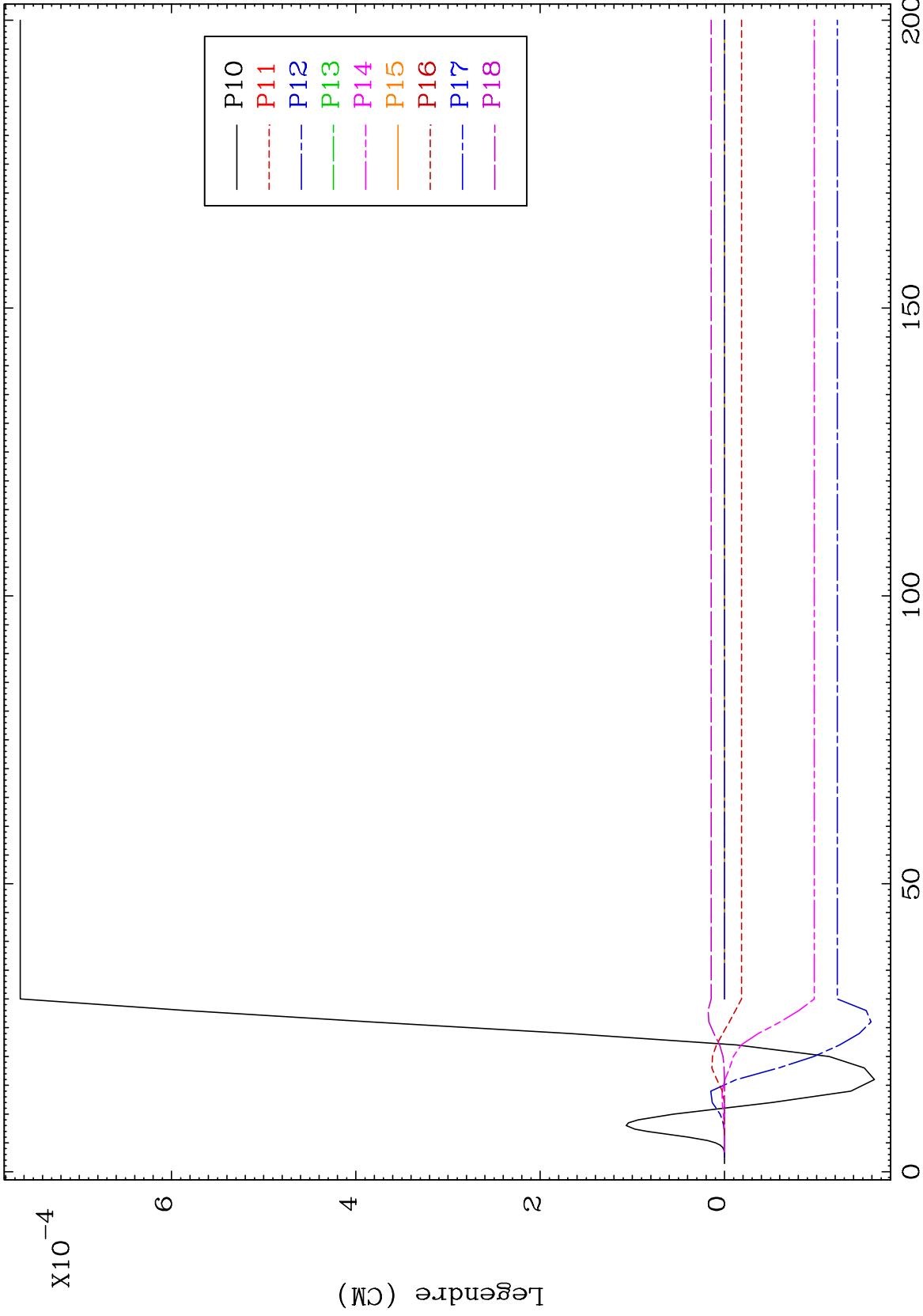
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



52

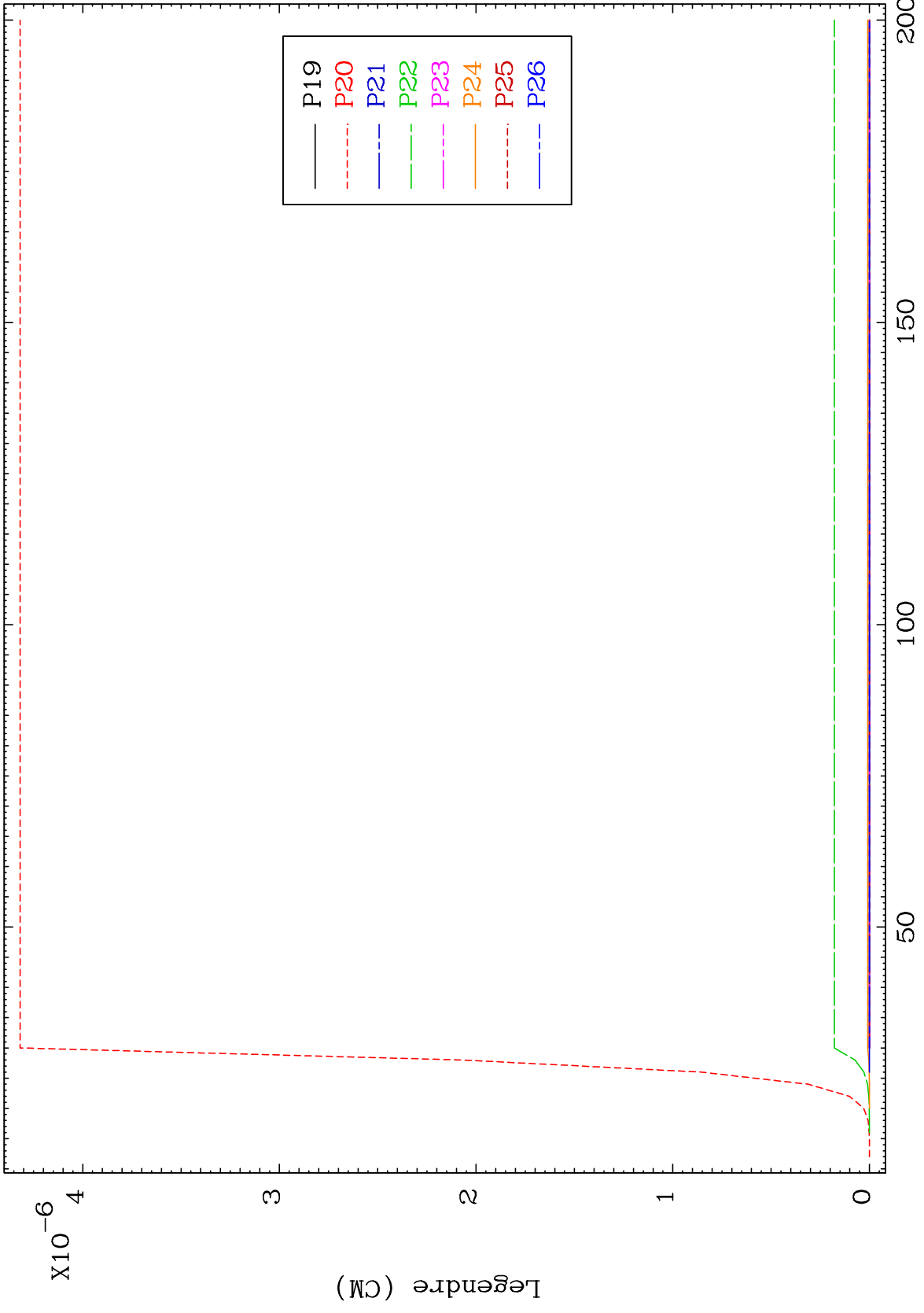
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



53

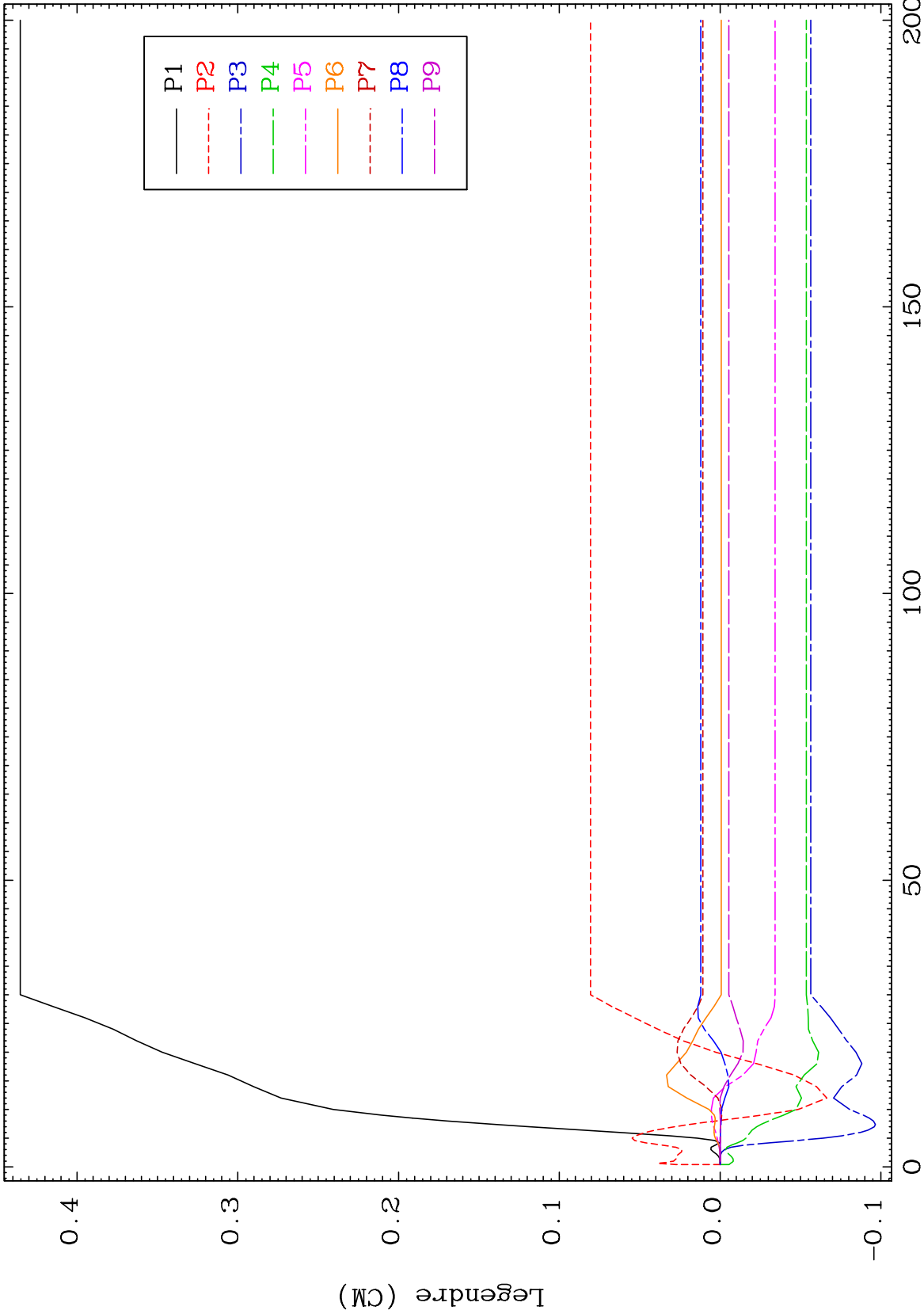
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



54

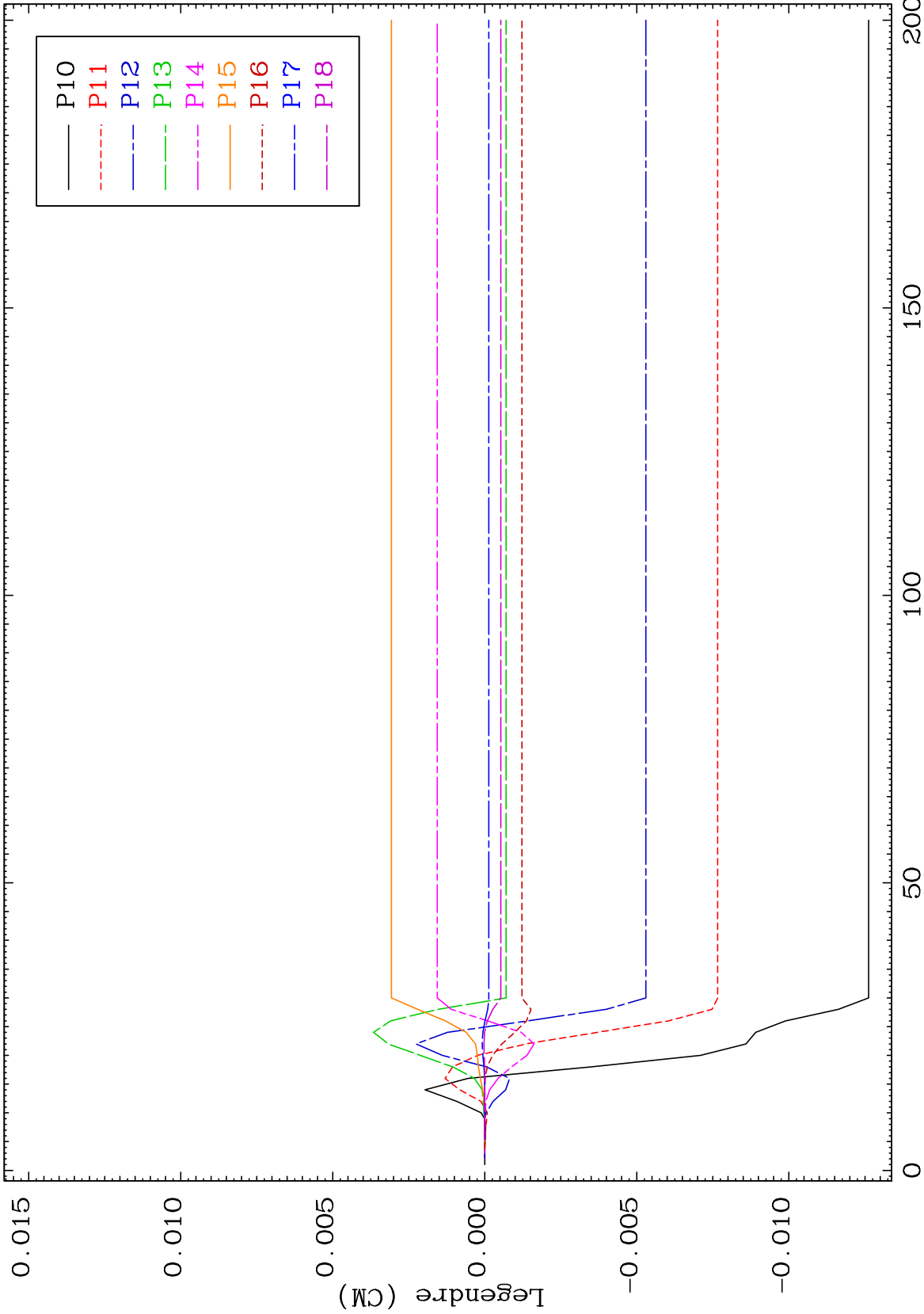
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



55

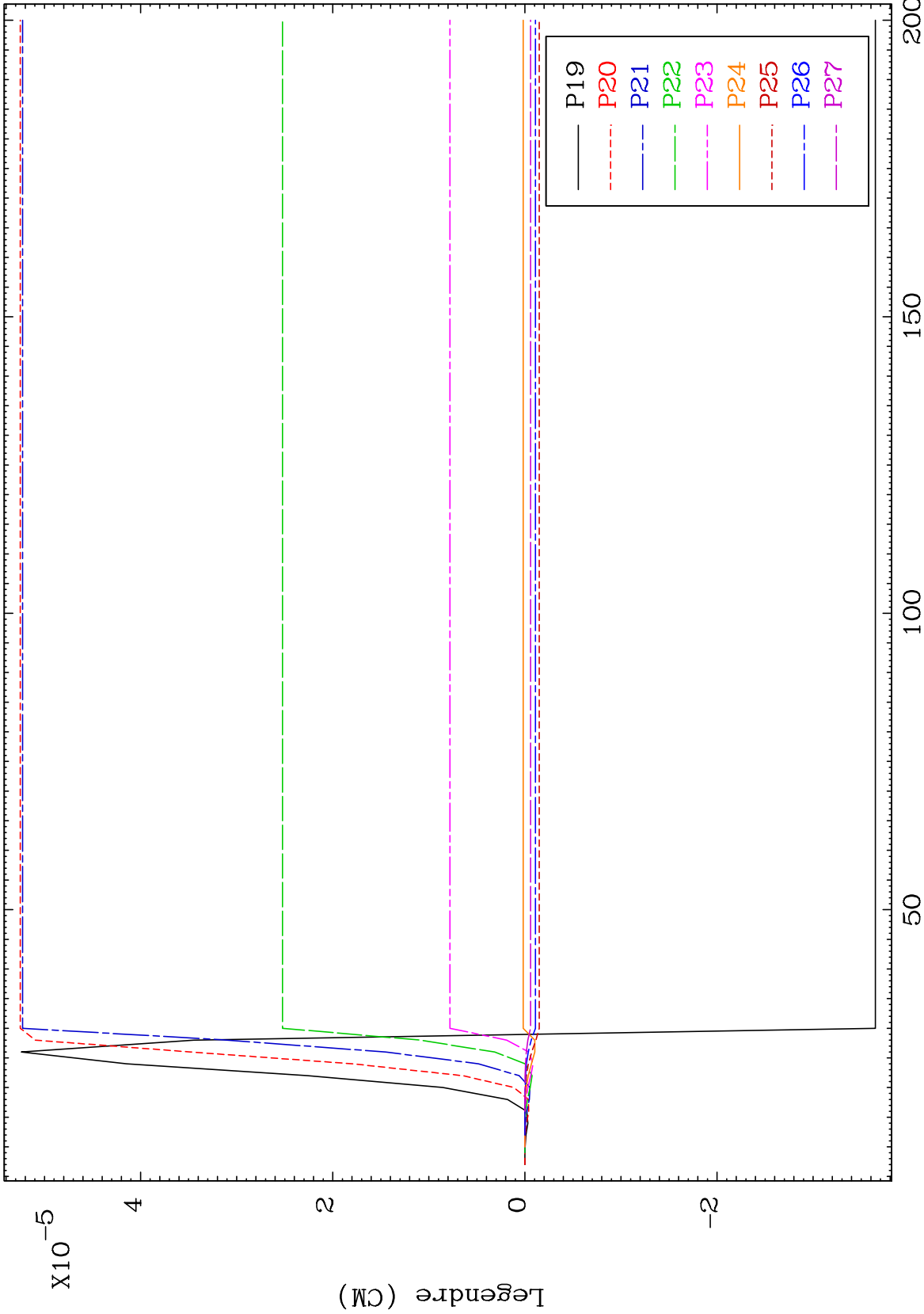
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



56

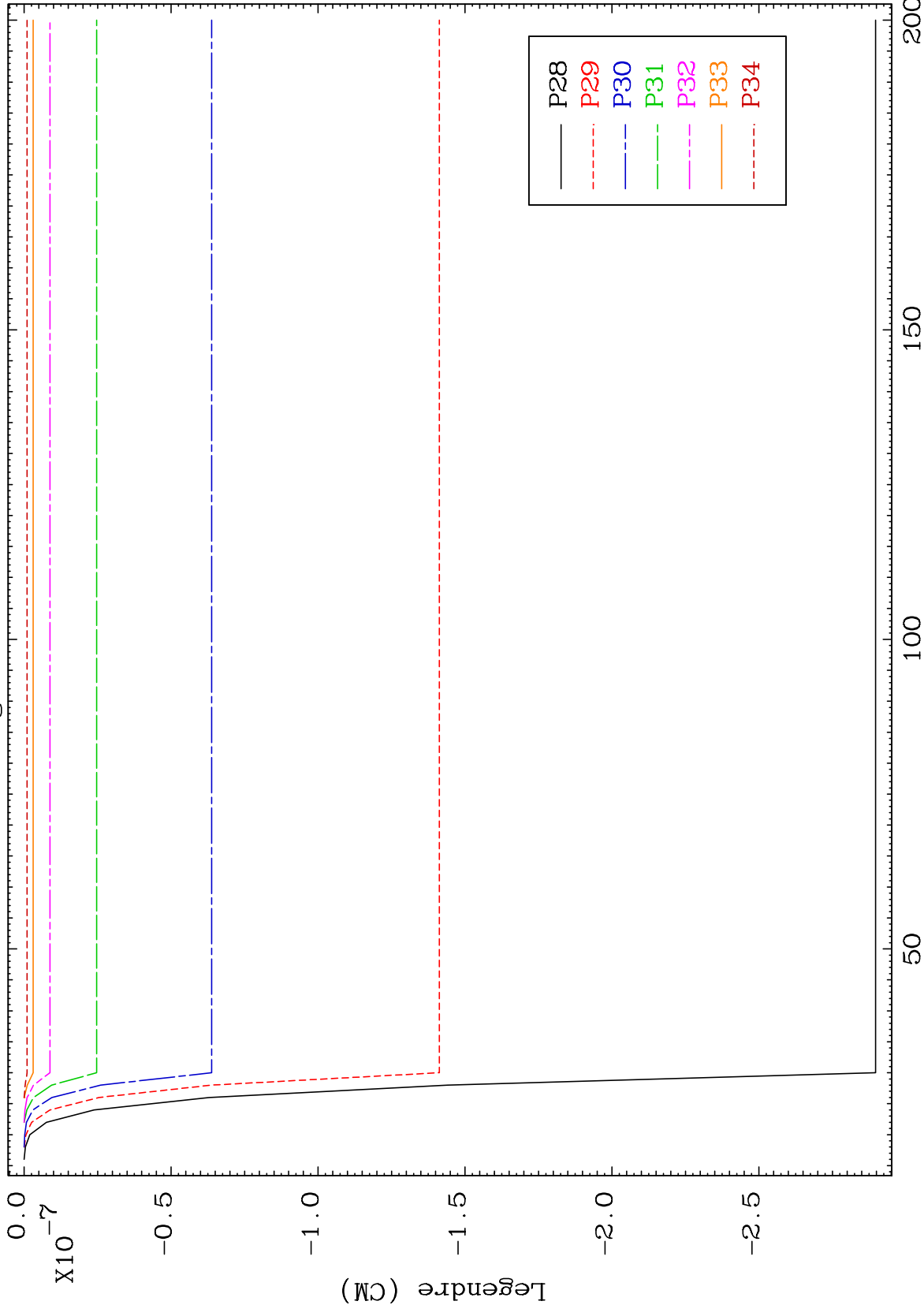
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



57

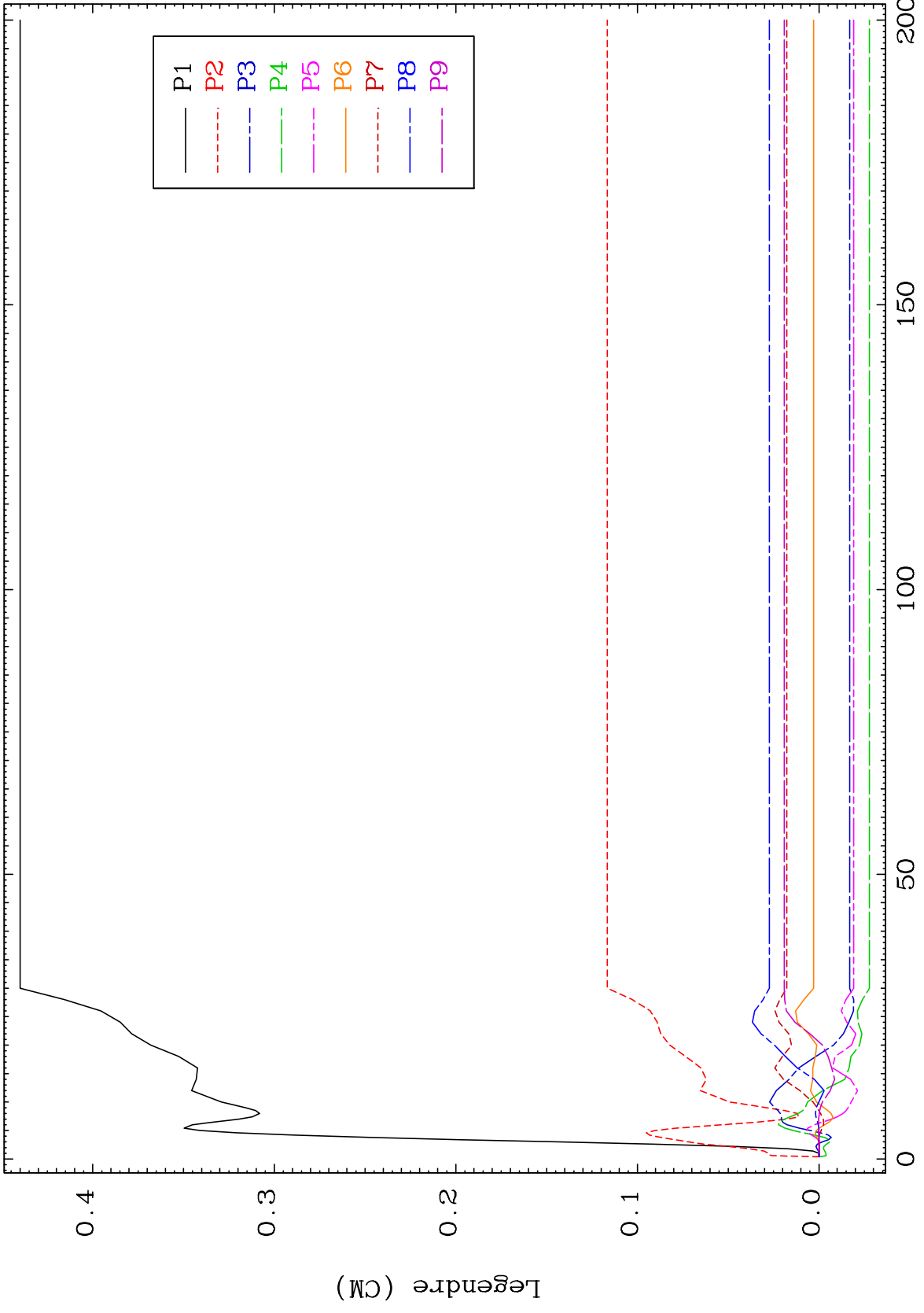
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



58

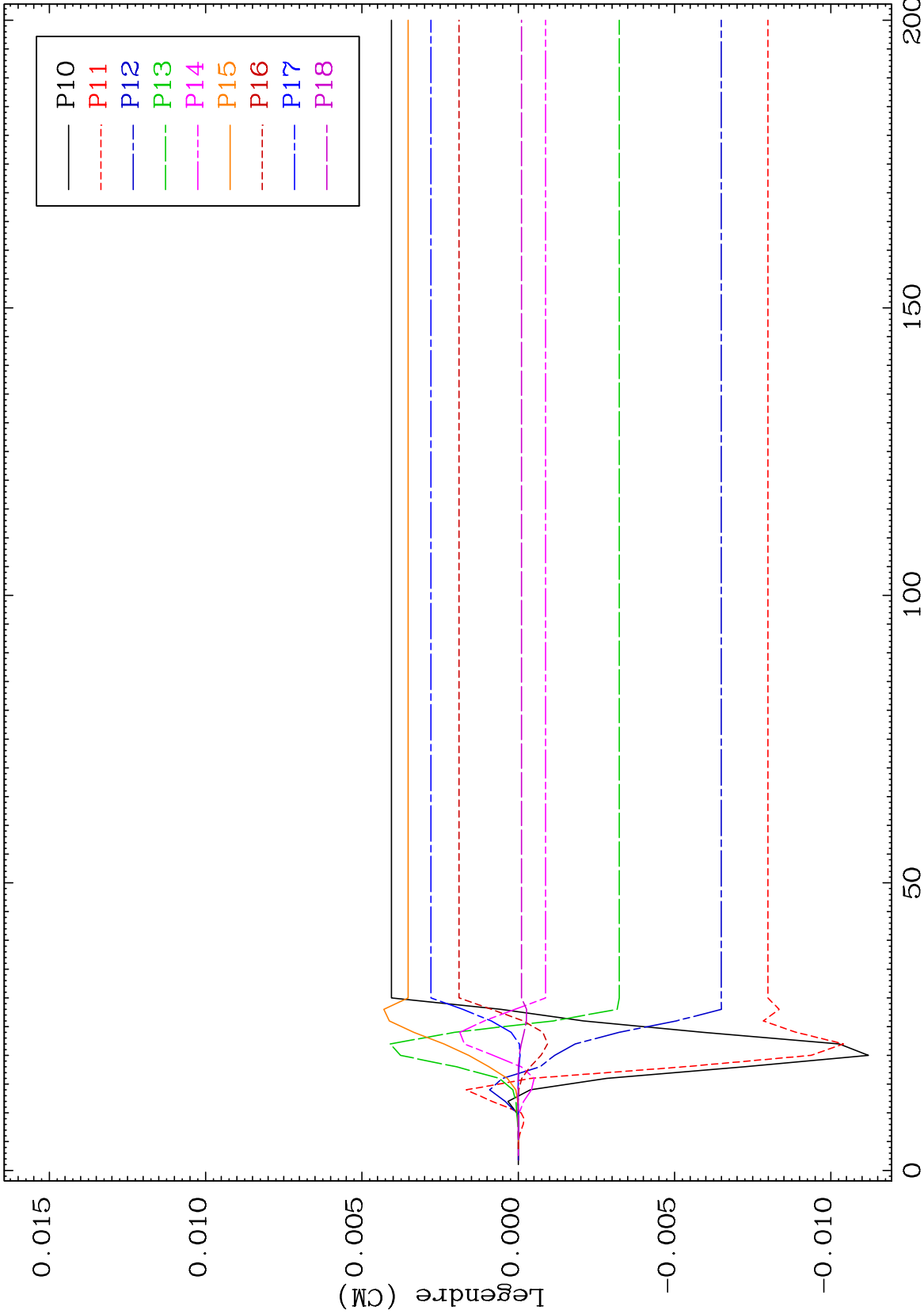
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148

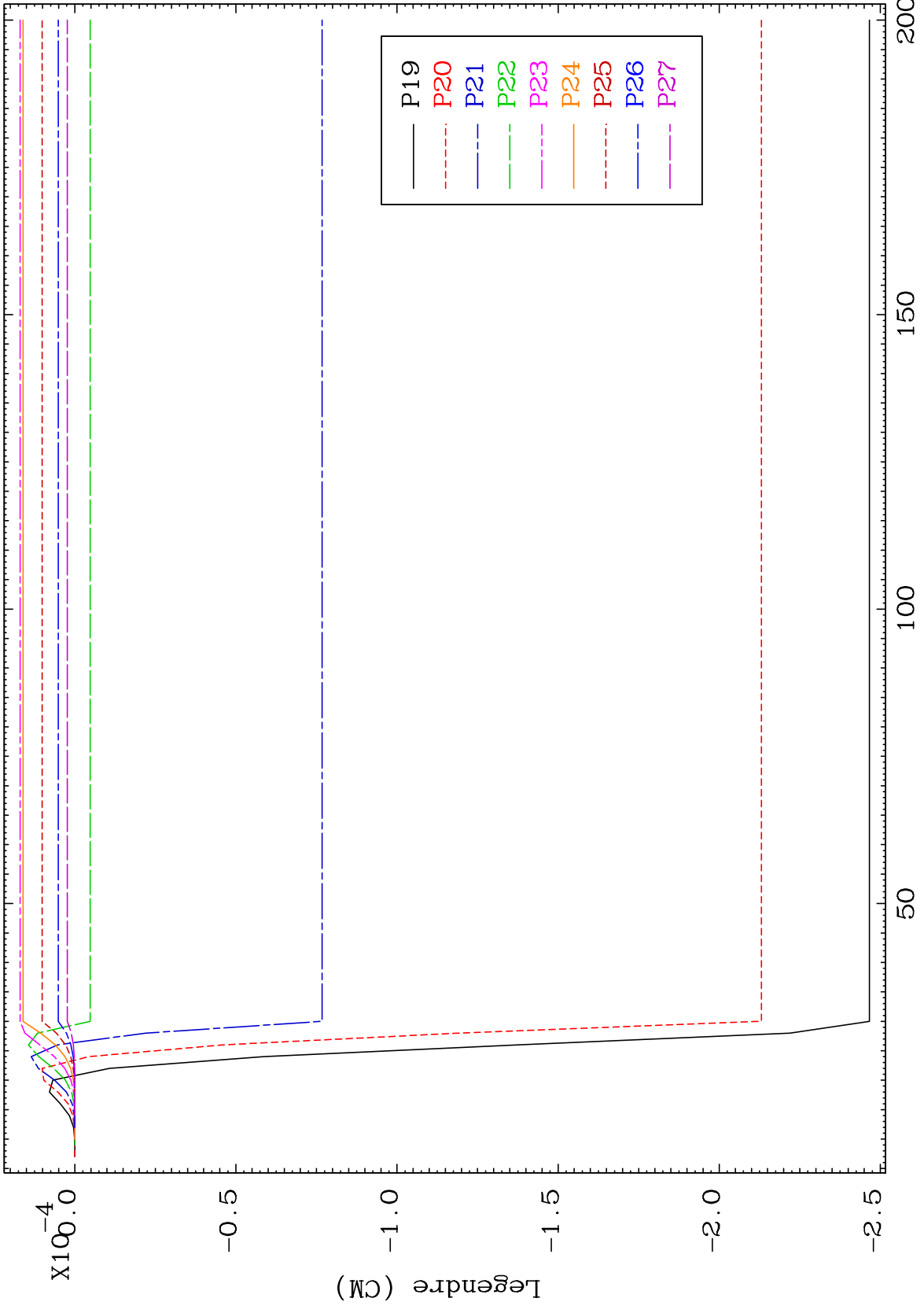


59

Incident Energy (MeV)

61-Pm-148

MAT 6152 MT= 62 (n,n') Level Legendre Coefficients 61-Pm-148

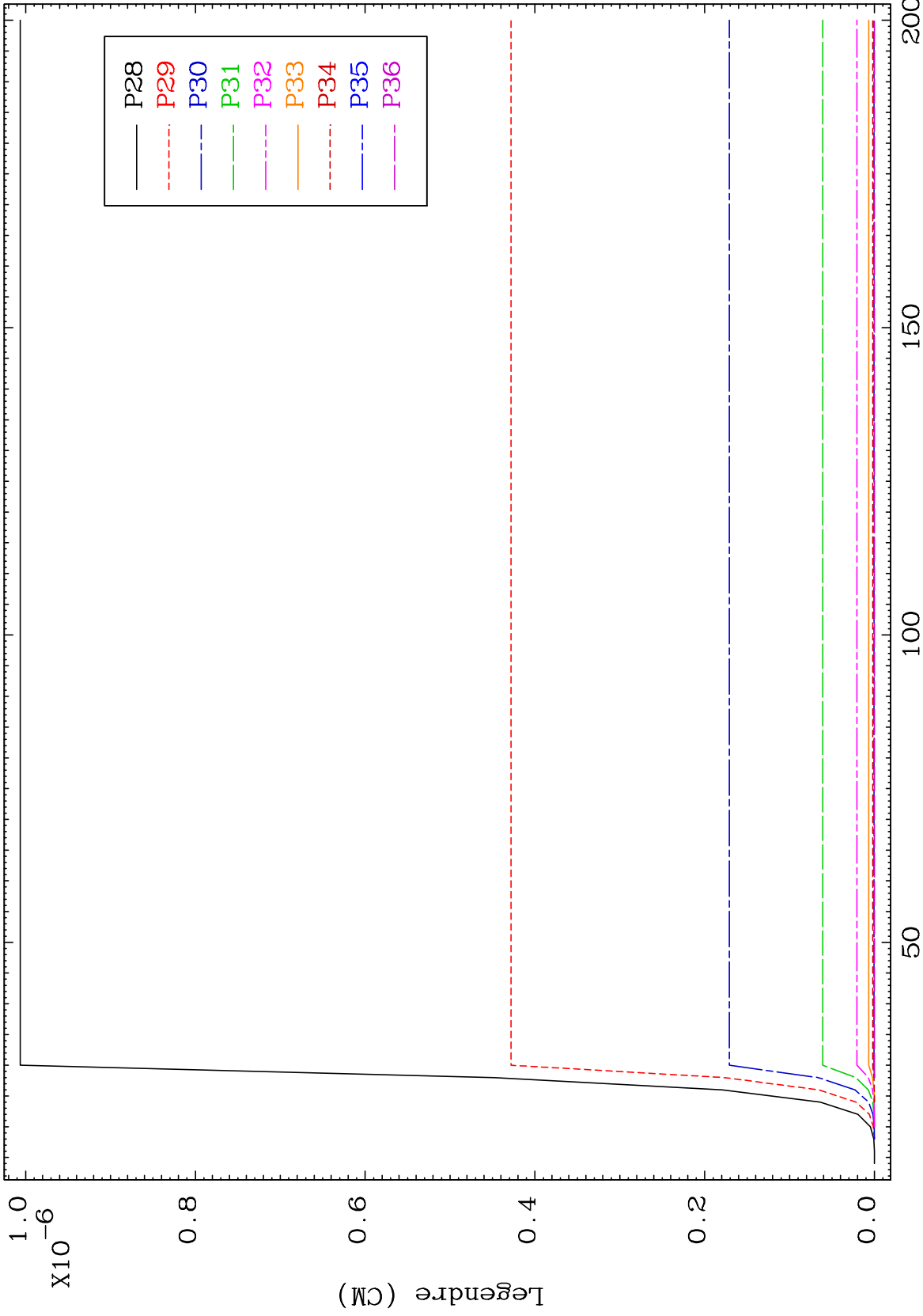


60 Incident Energy (MeV) 61-Pm-148

MAT 6152

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

61-Pm-148



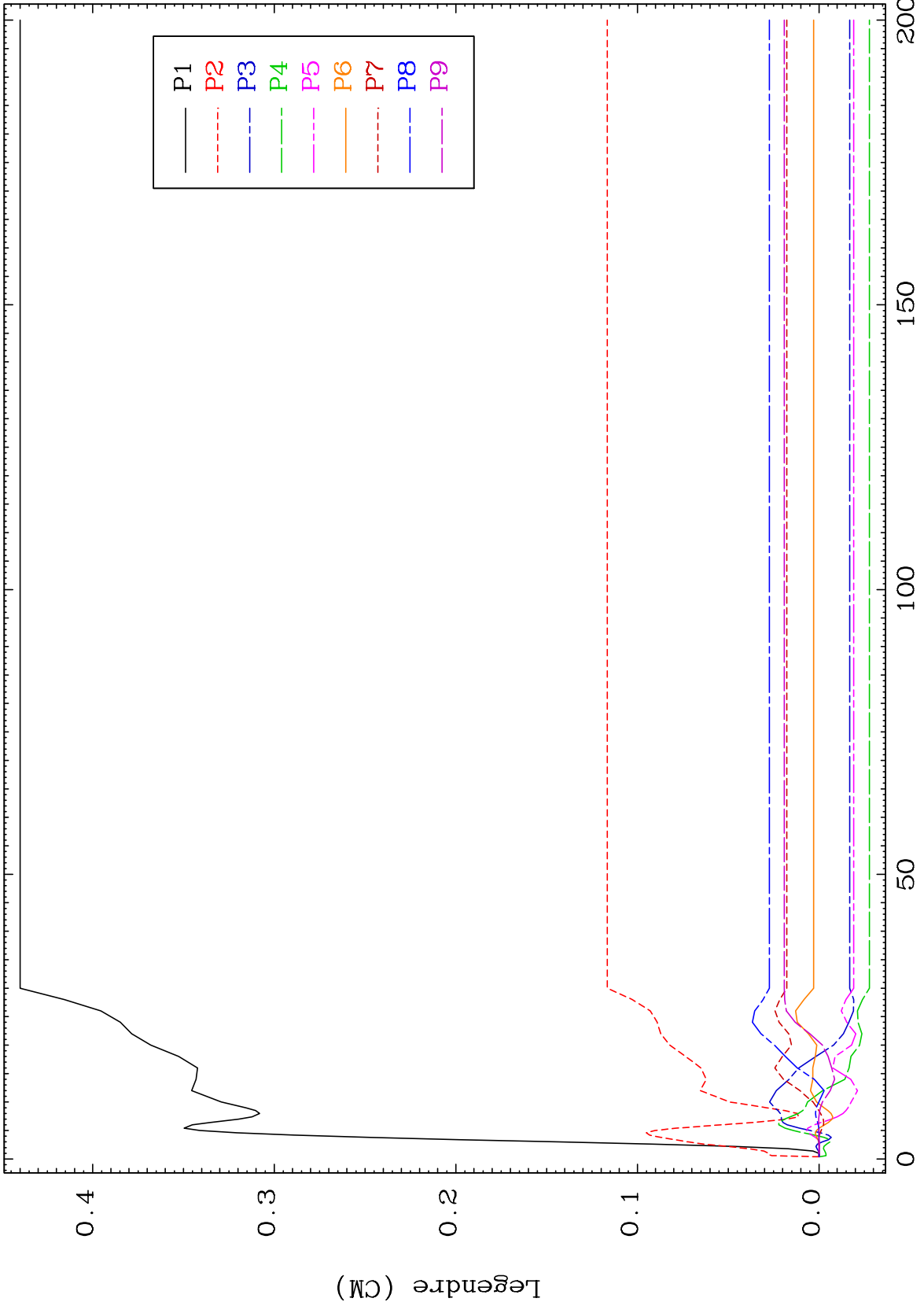
61

61-Pm-148

MAT 6152

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

61-Pm-148



62

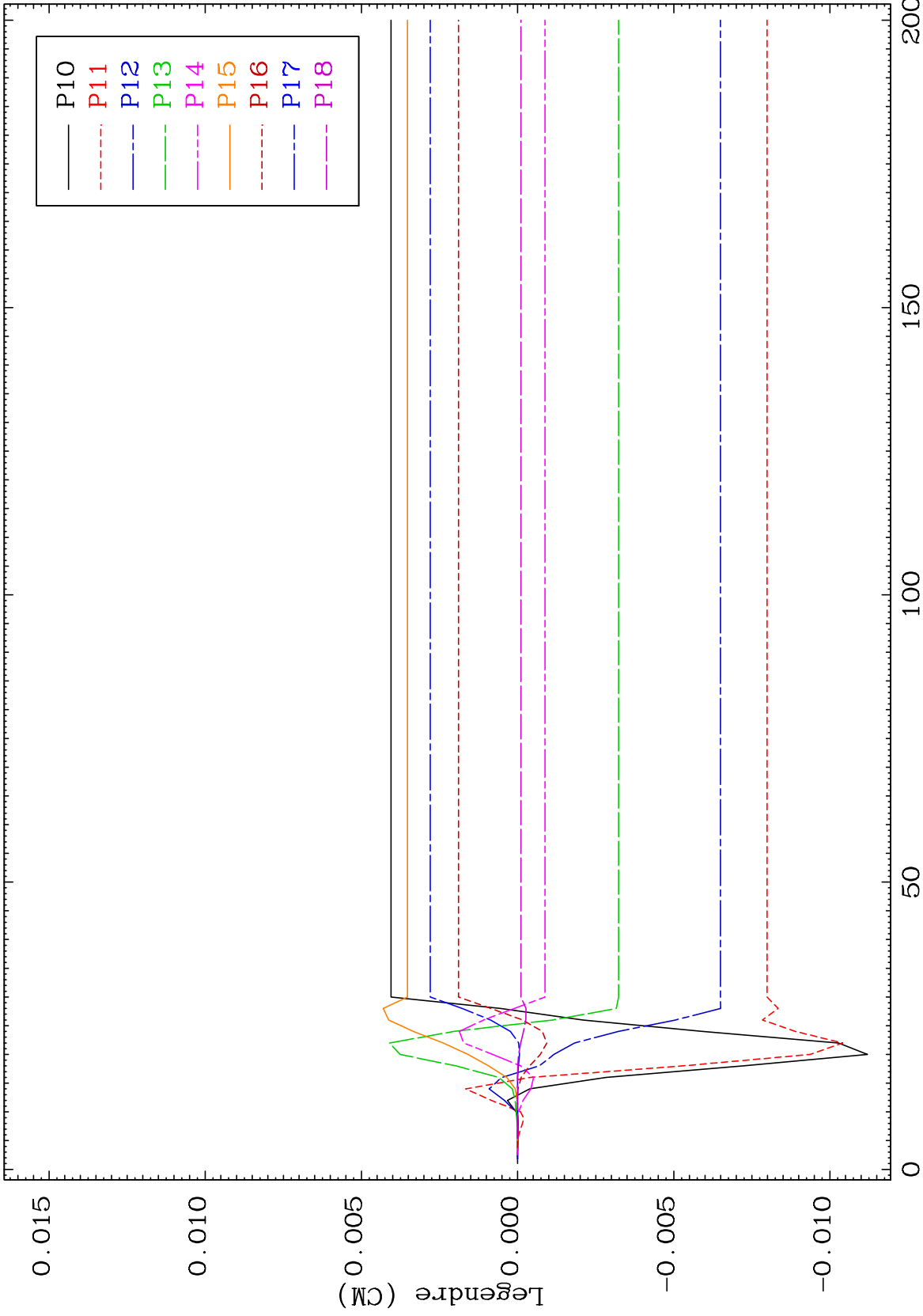
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148

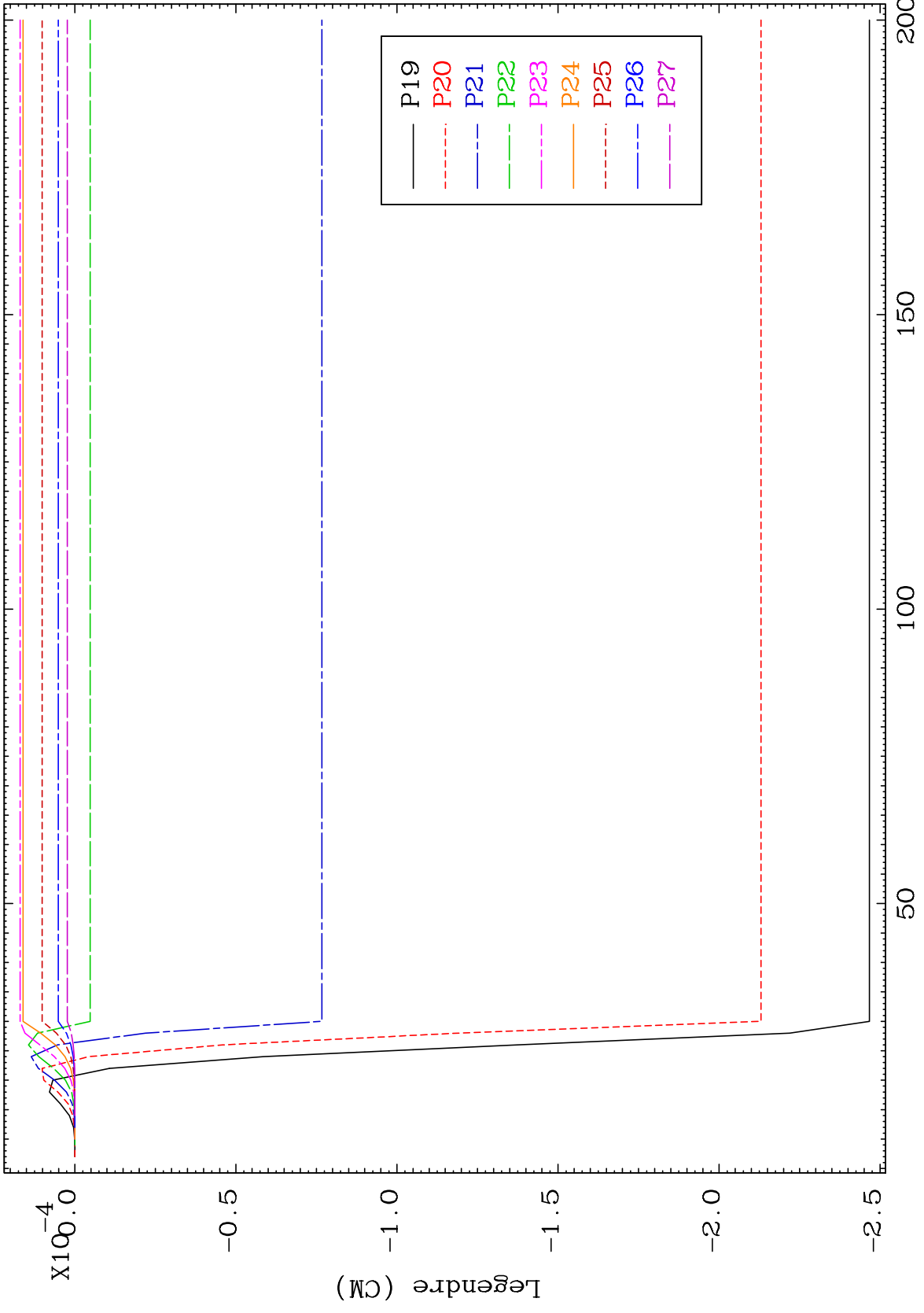


63

Incident Energy (MeV)

61-Pm-148

MAT 6152 MT= 63 (n,n') Level Legendre Coefficients 61-Pm-148

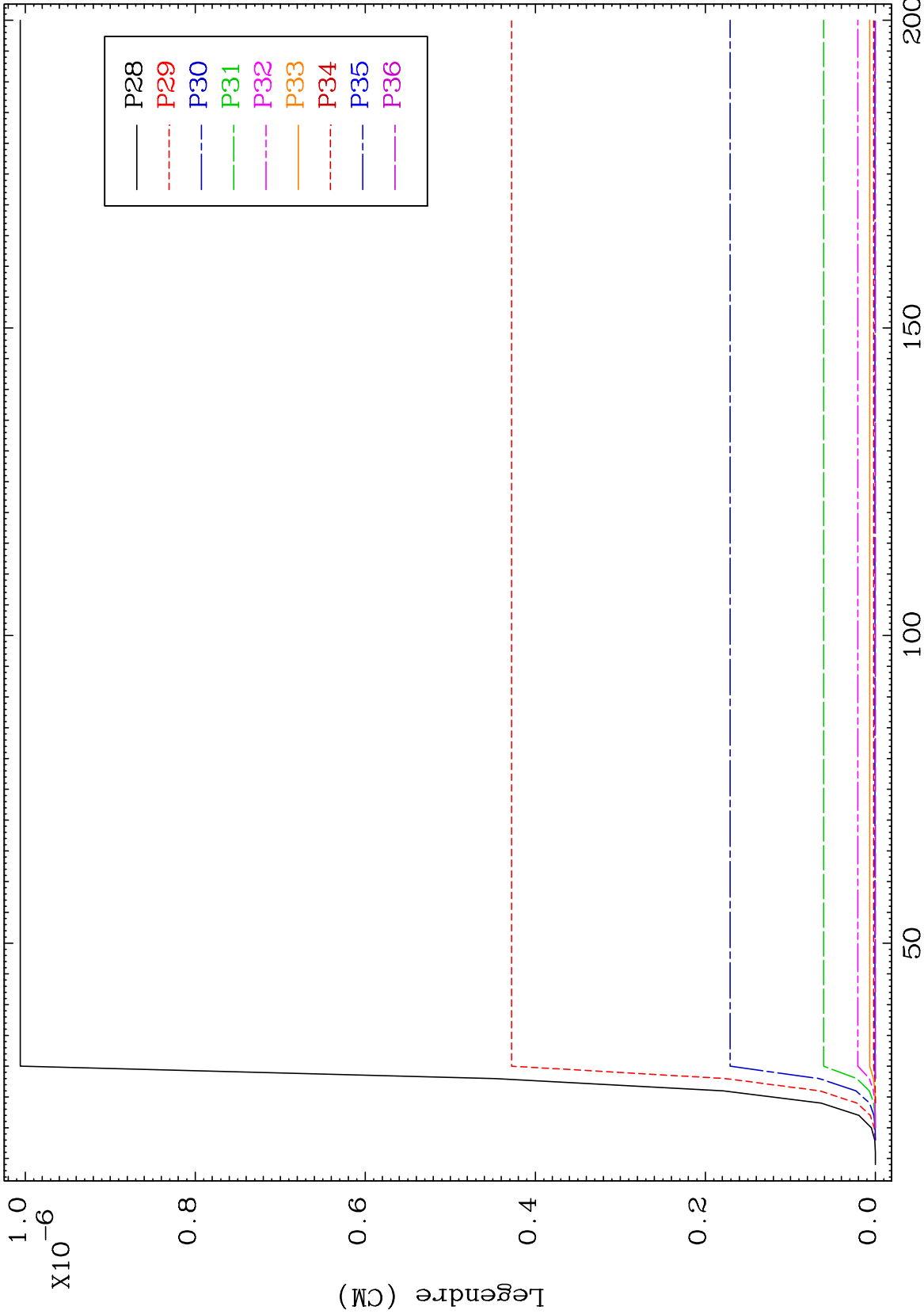


64 61-Pm-148

MAT 6152

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

61-Pm-148



65

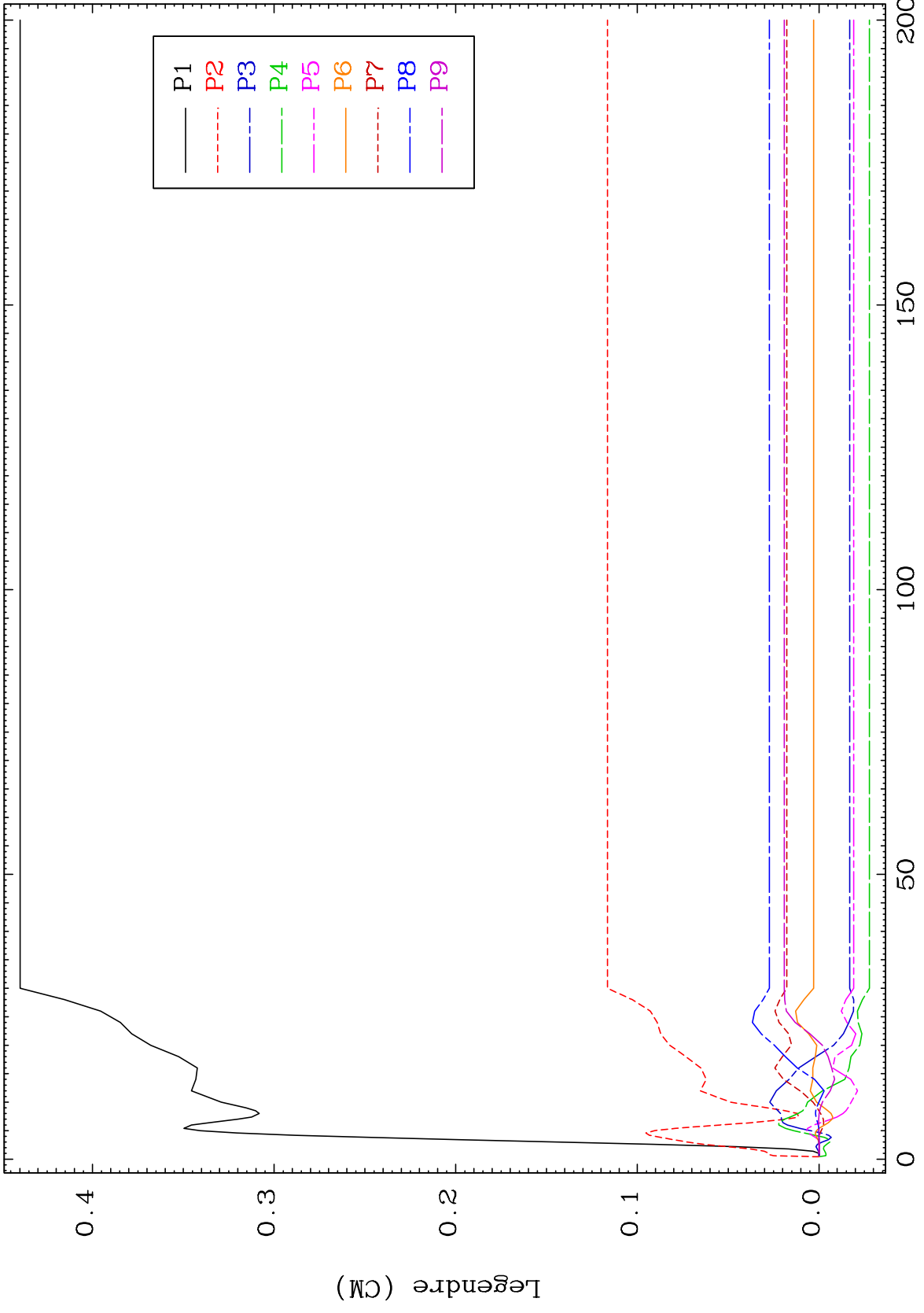
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



66

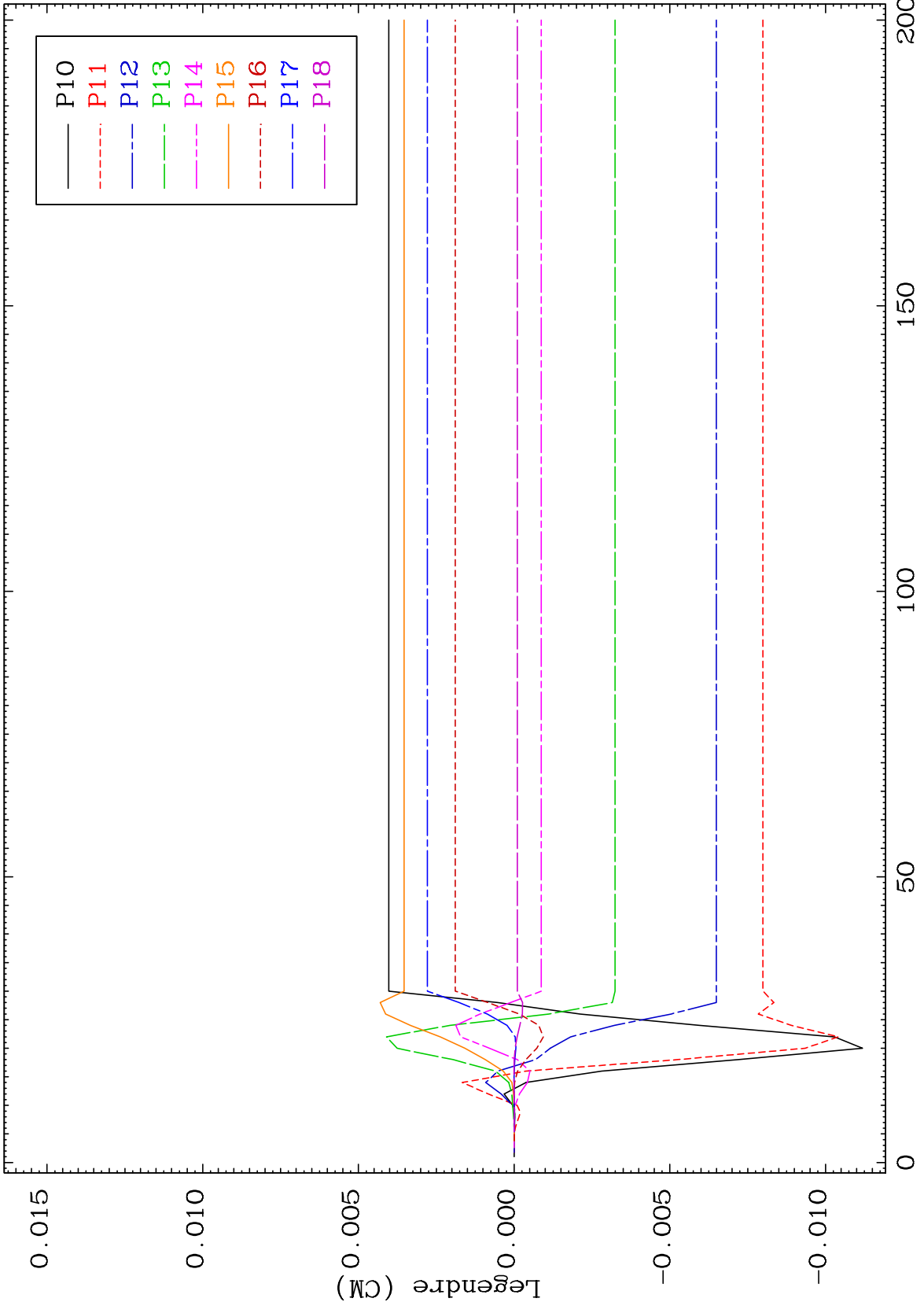
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



67

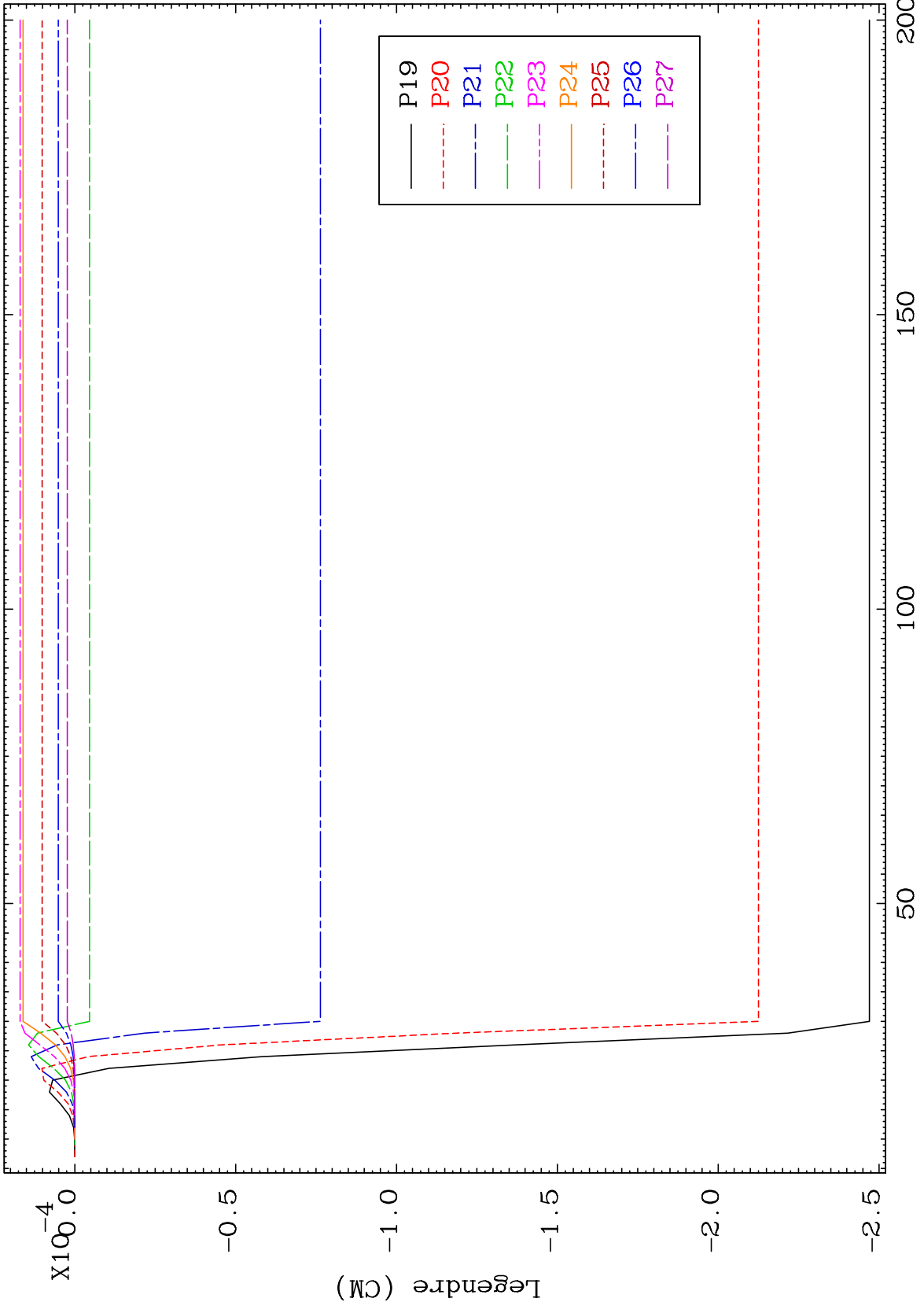
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



61-Pm-148

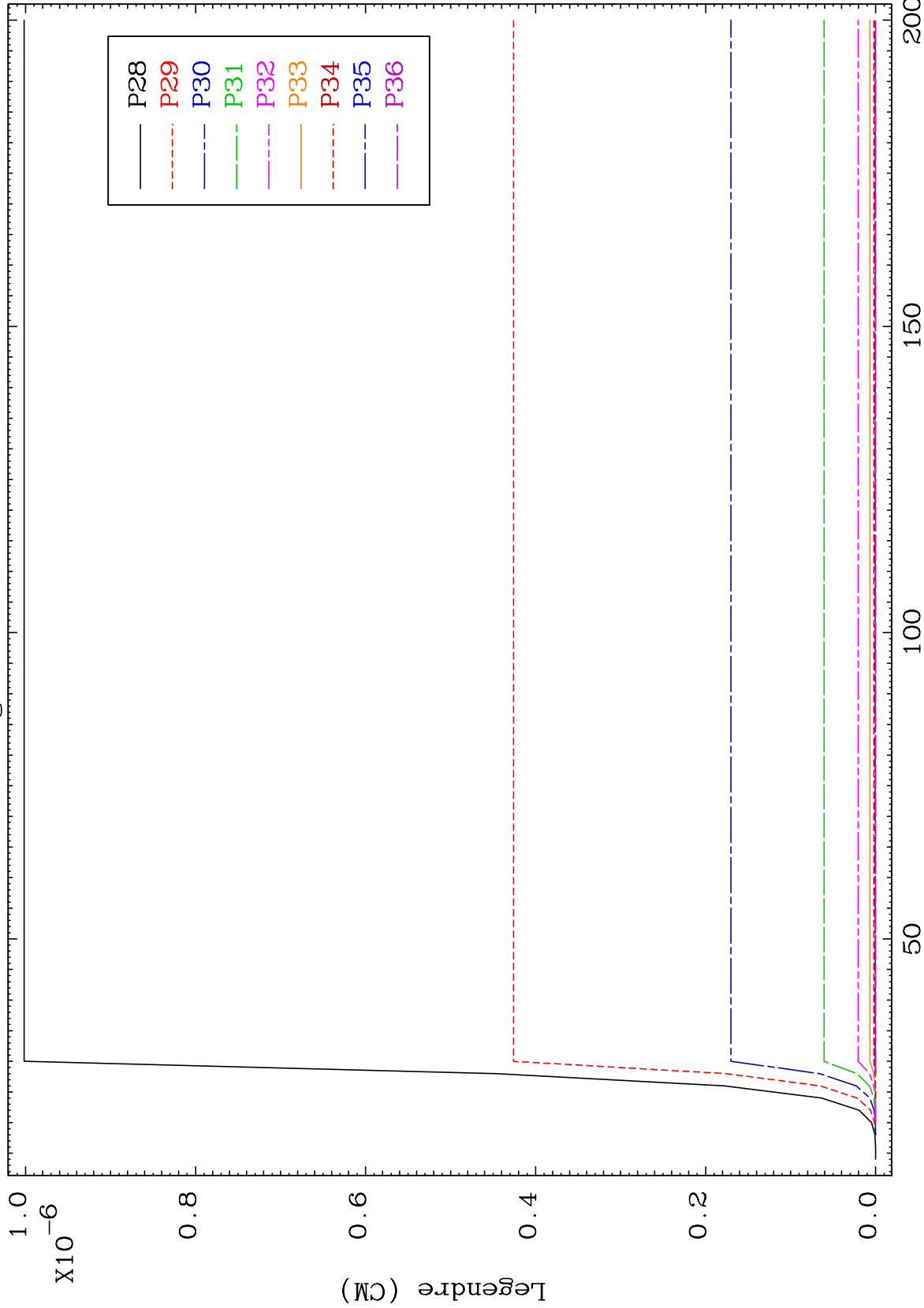
Incident Energy (MeV)

68

MAT 6152

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

61-Pm-148



69

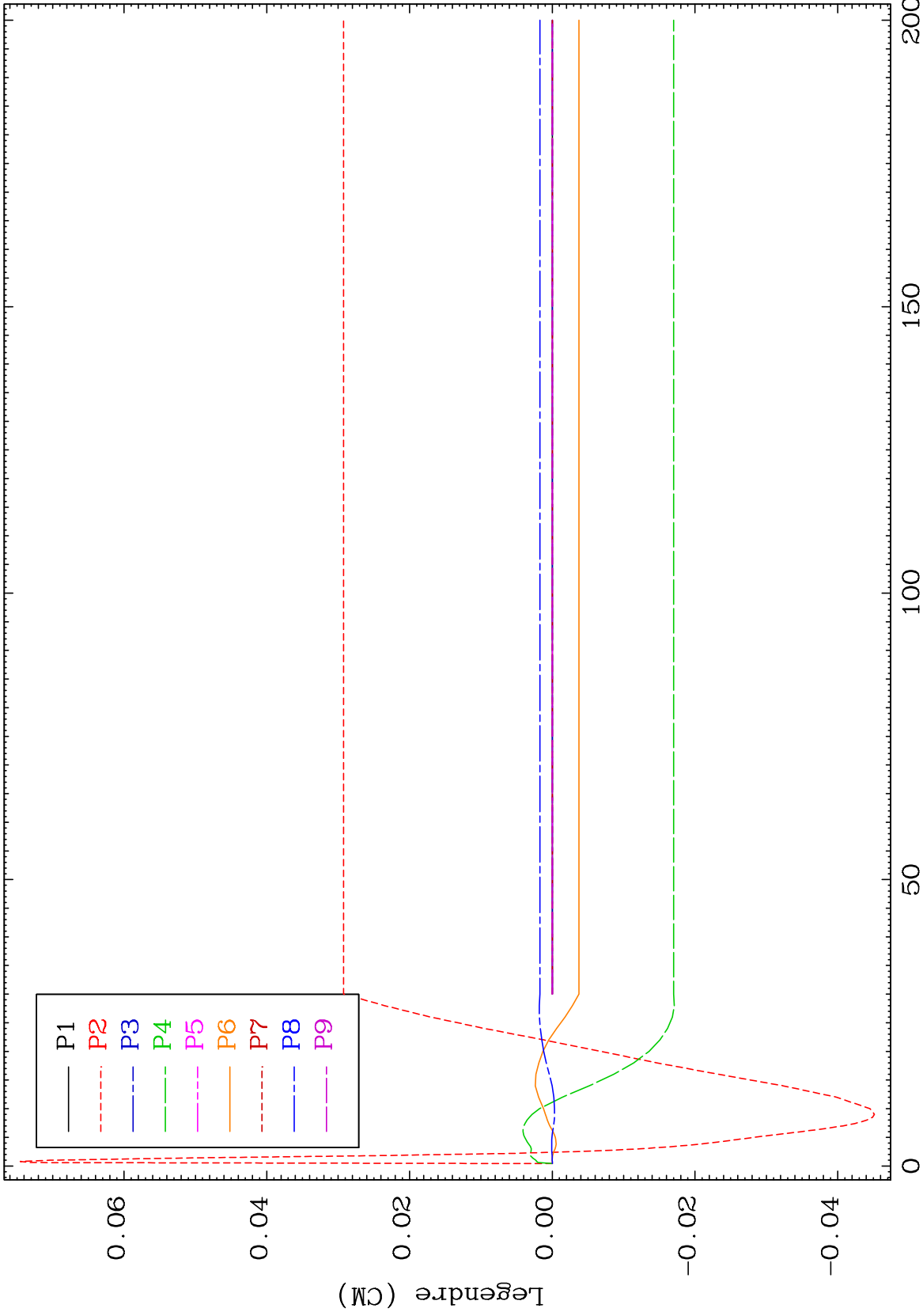
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



70

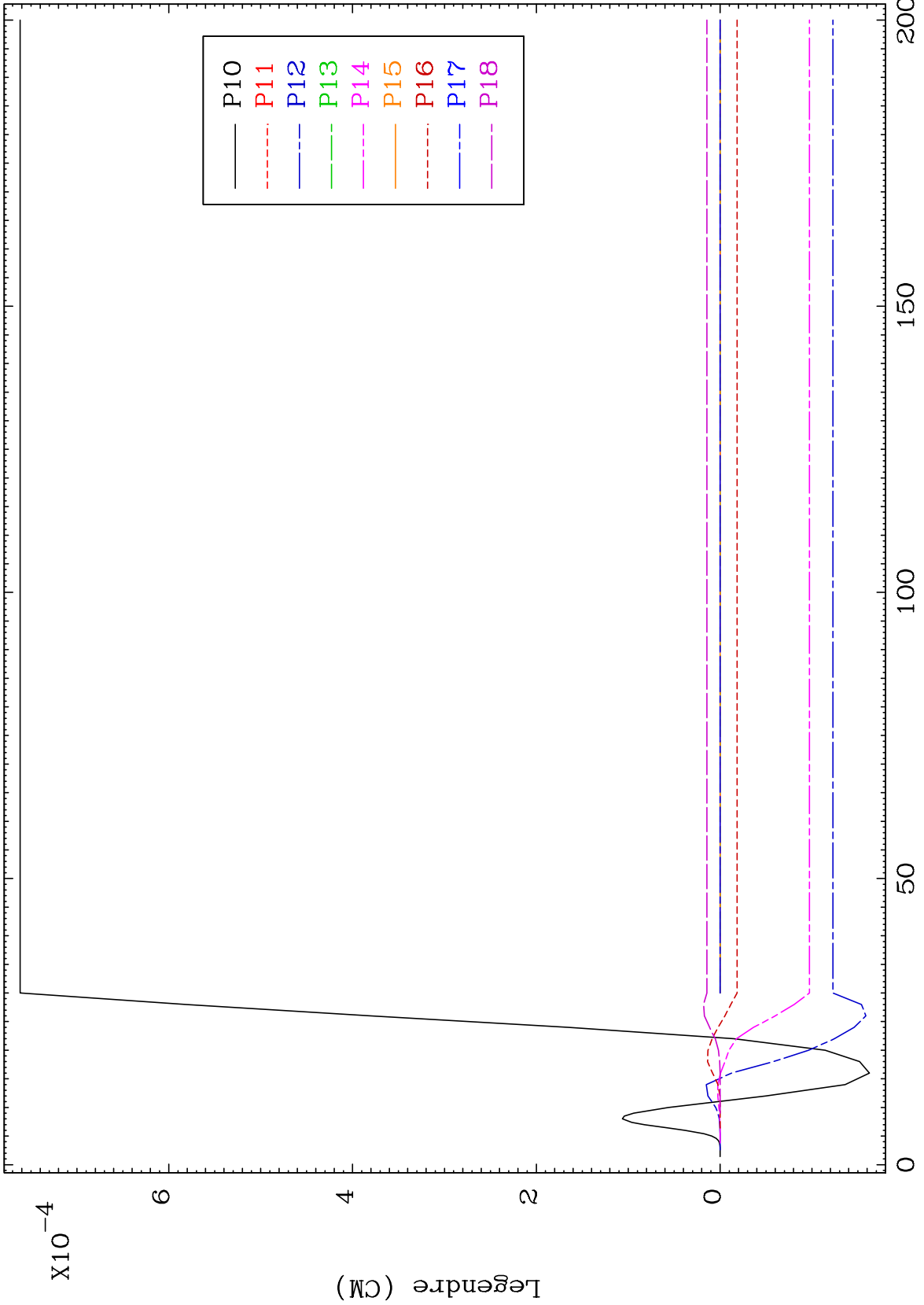
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



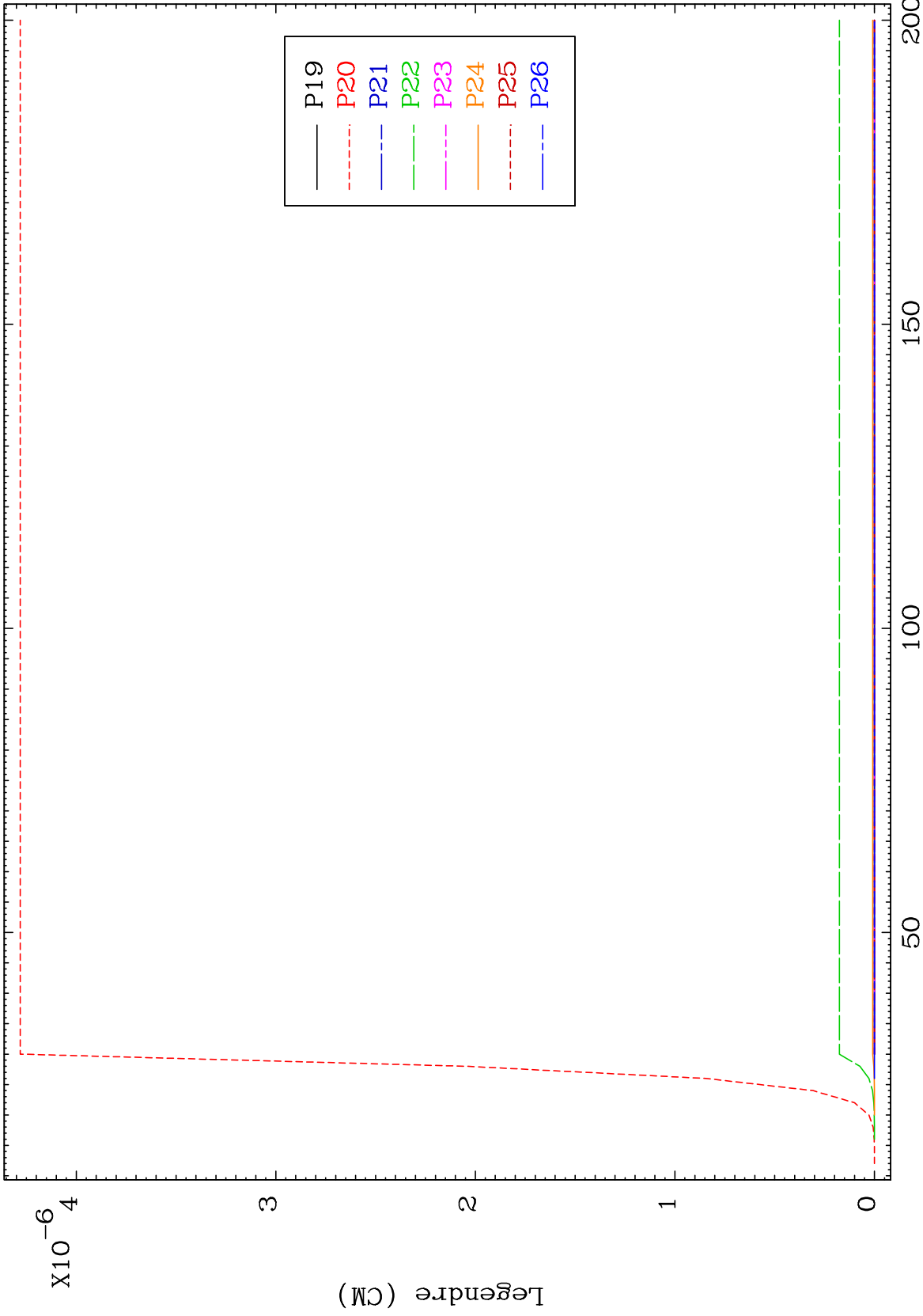
71

61-Pm-148

MAT 6152

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

61-Pm-148



72

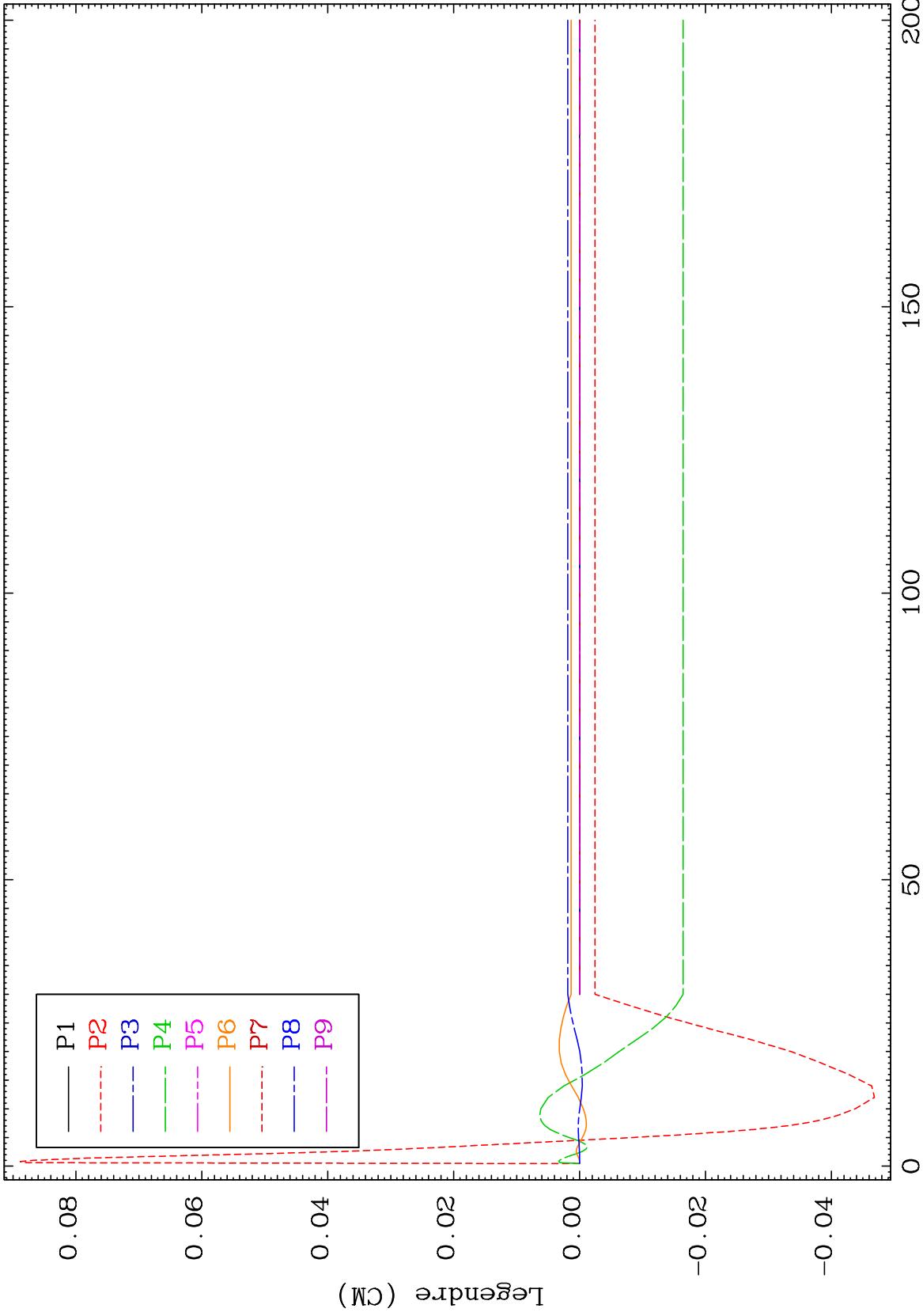
61-Pm-148

61-Pm-148

MAT 6152

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

61-Pm-148



73

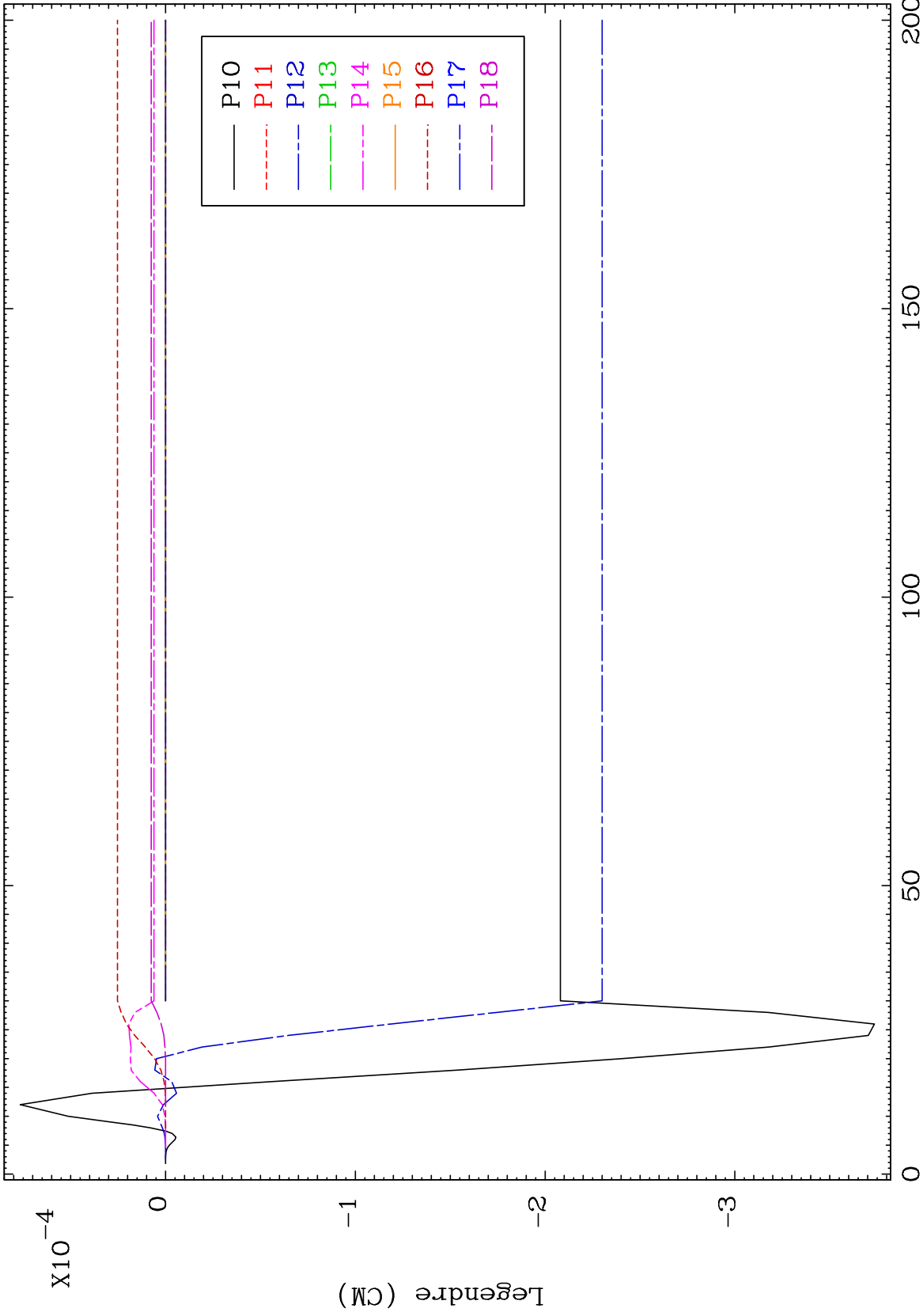
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



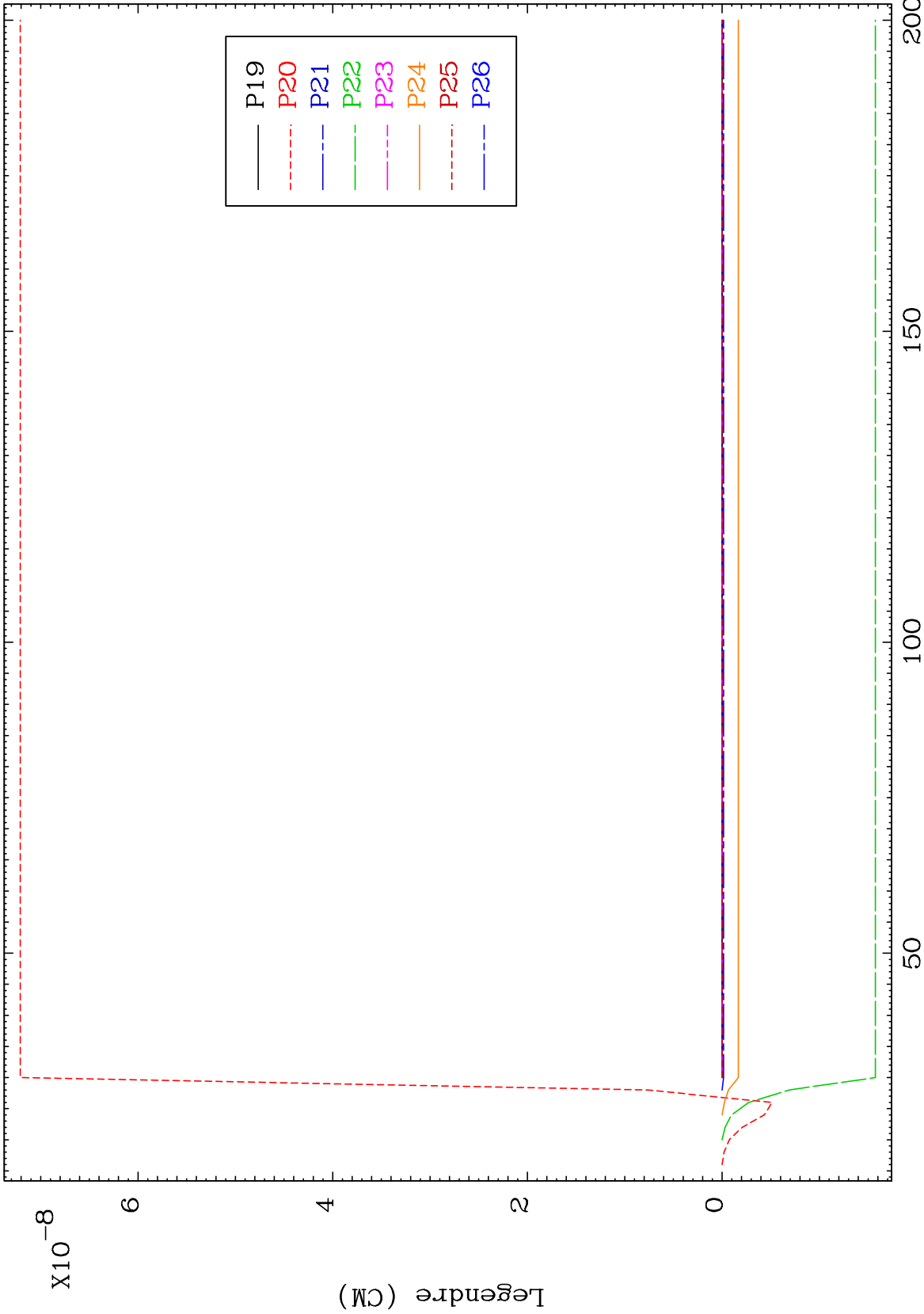
74

61-Pm-148

MAT 6152

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

61-Pm-148



75

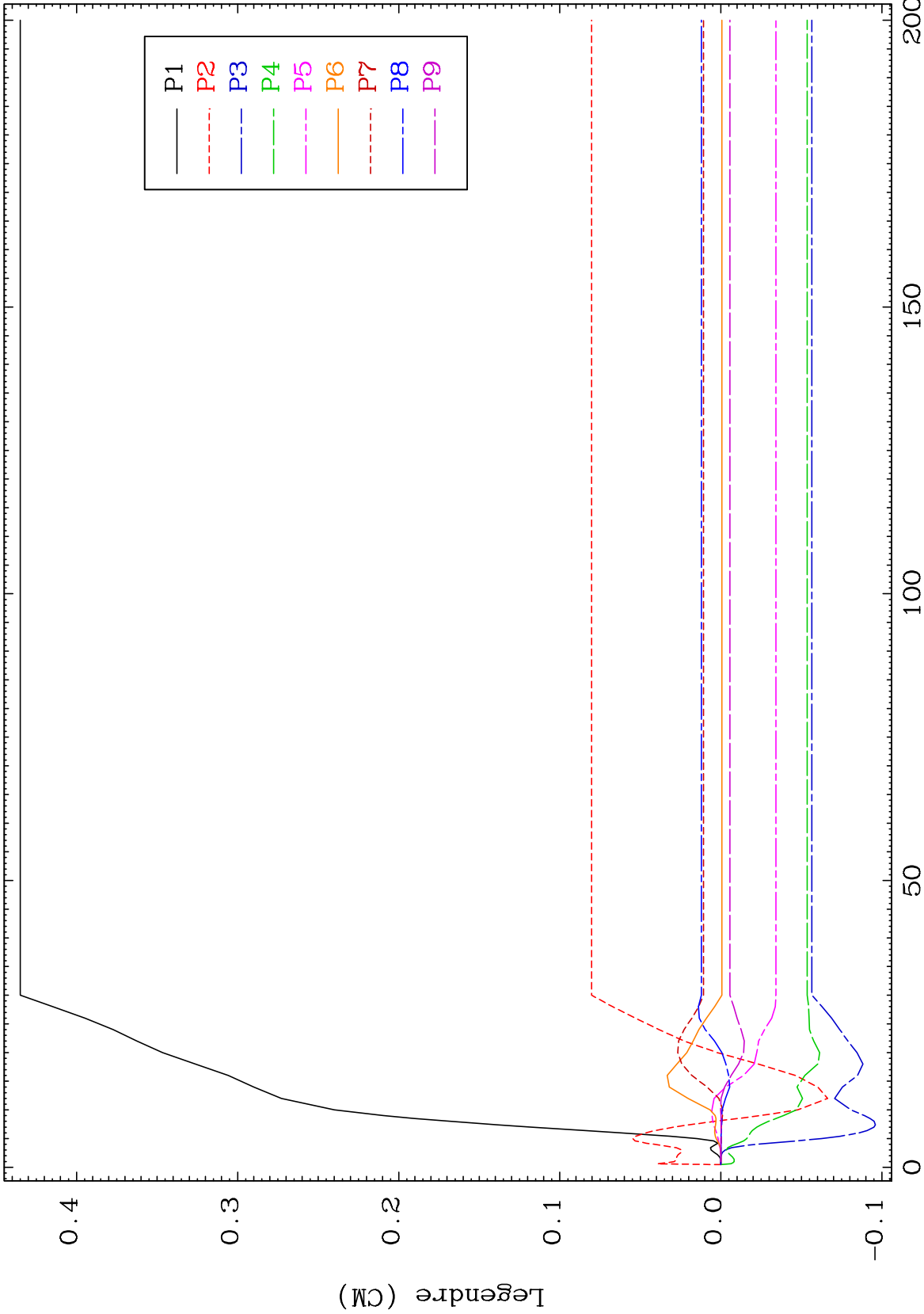
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



76

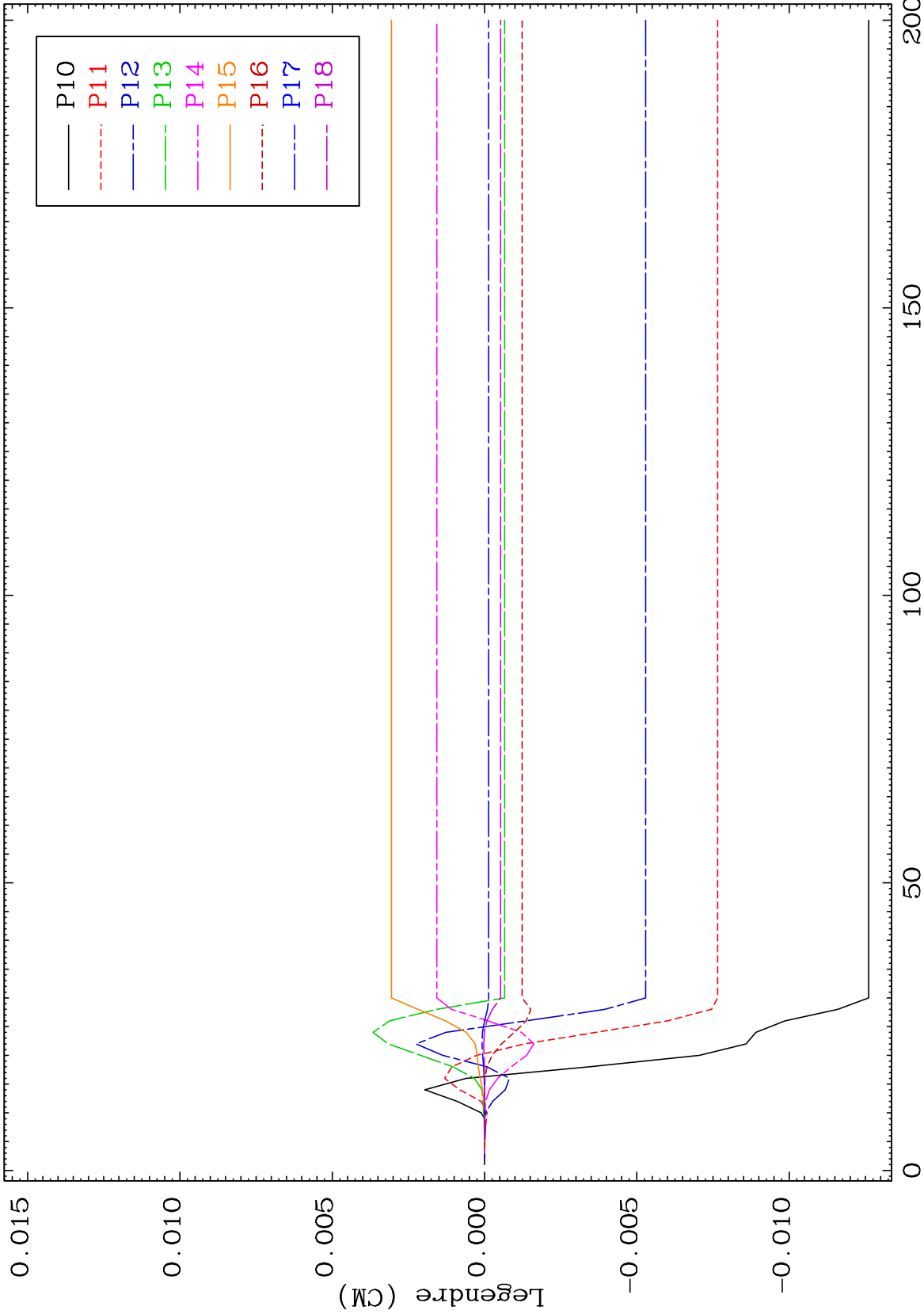
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



77

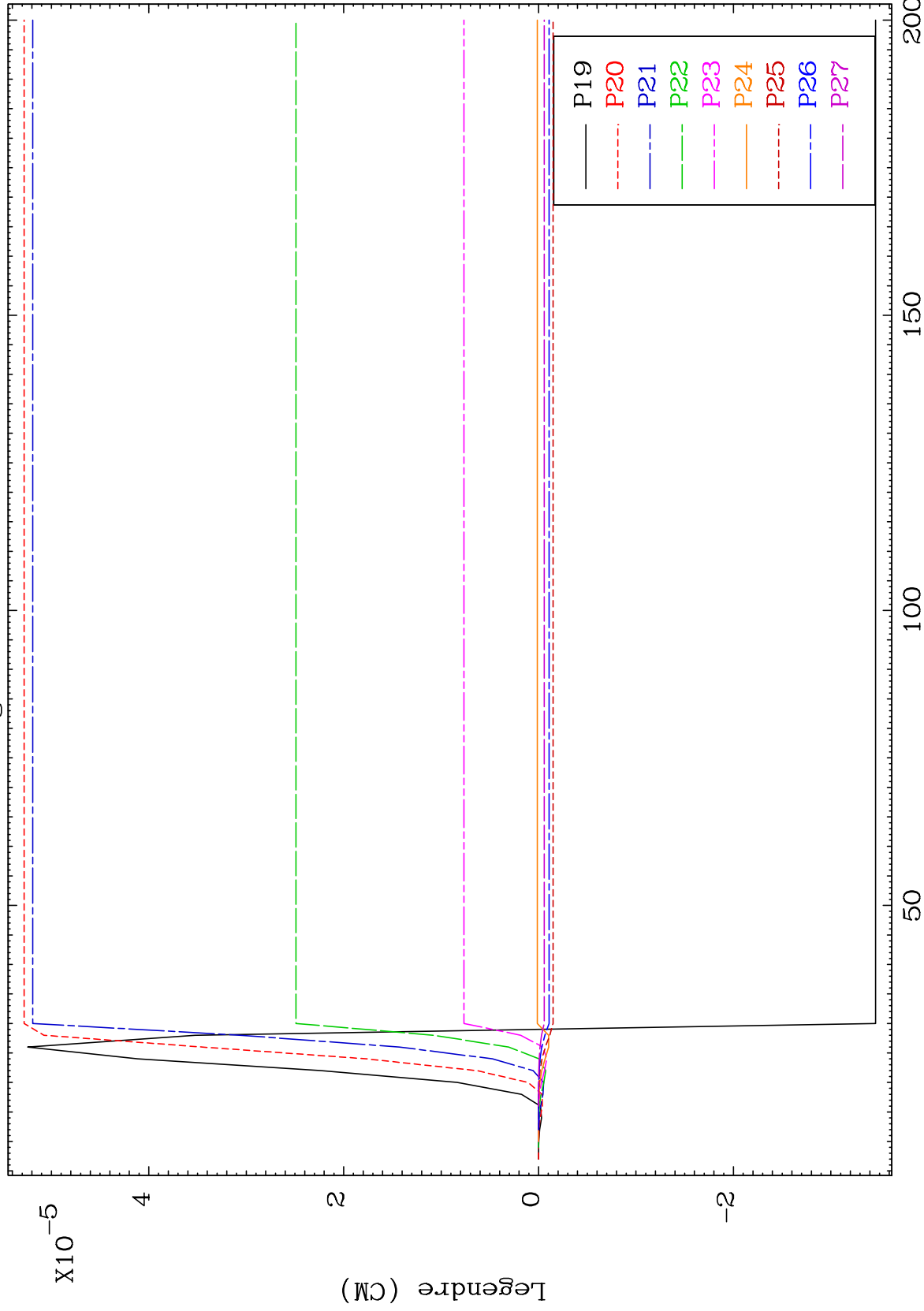
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



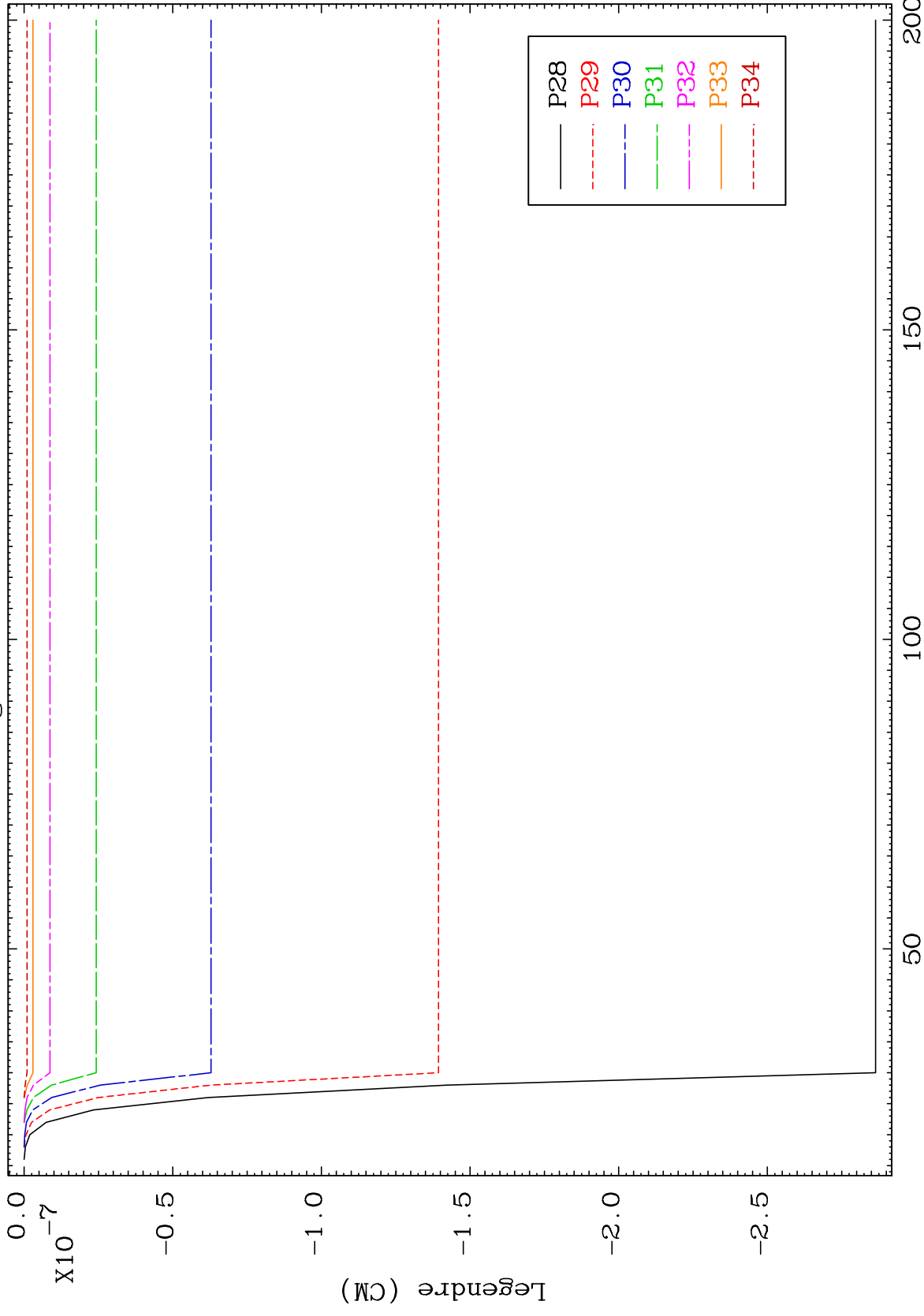
78

61-Pm-148

MAT 6152

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

61-Pm-148

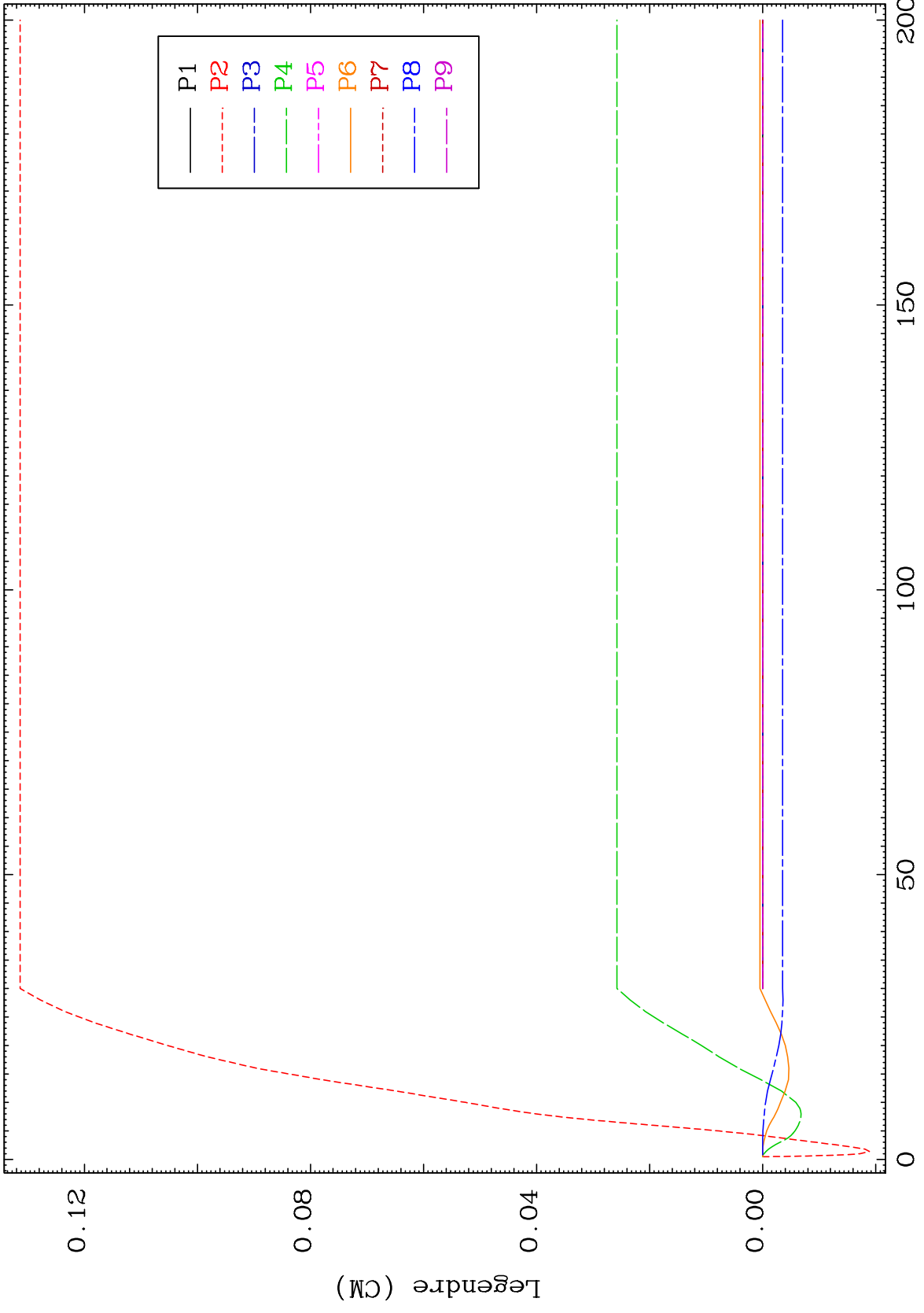


79

Incident Energy (MeV)

61-Pm-148

MAT 6152 MT= 68 (n,n') Level Legendre Coefficients 61-Pm-148

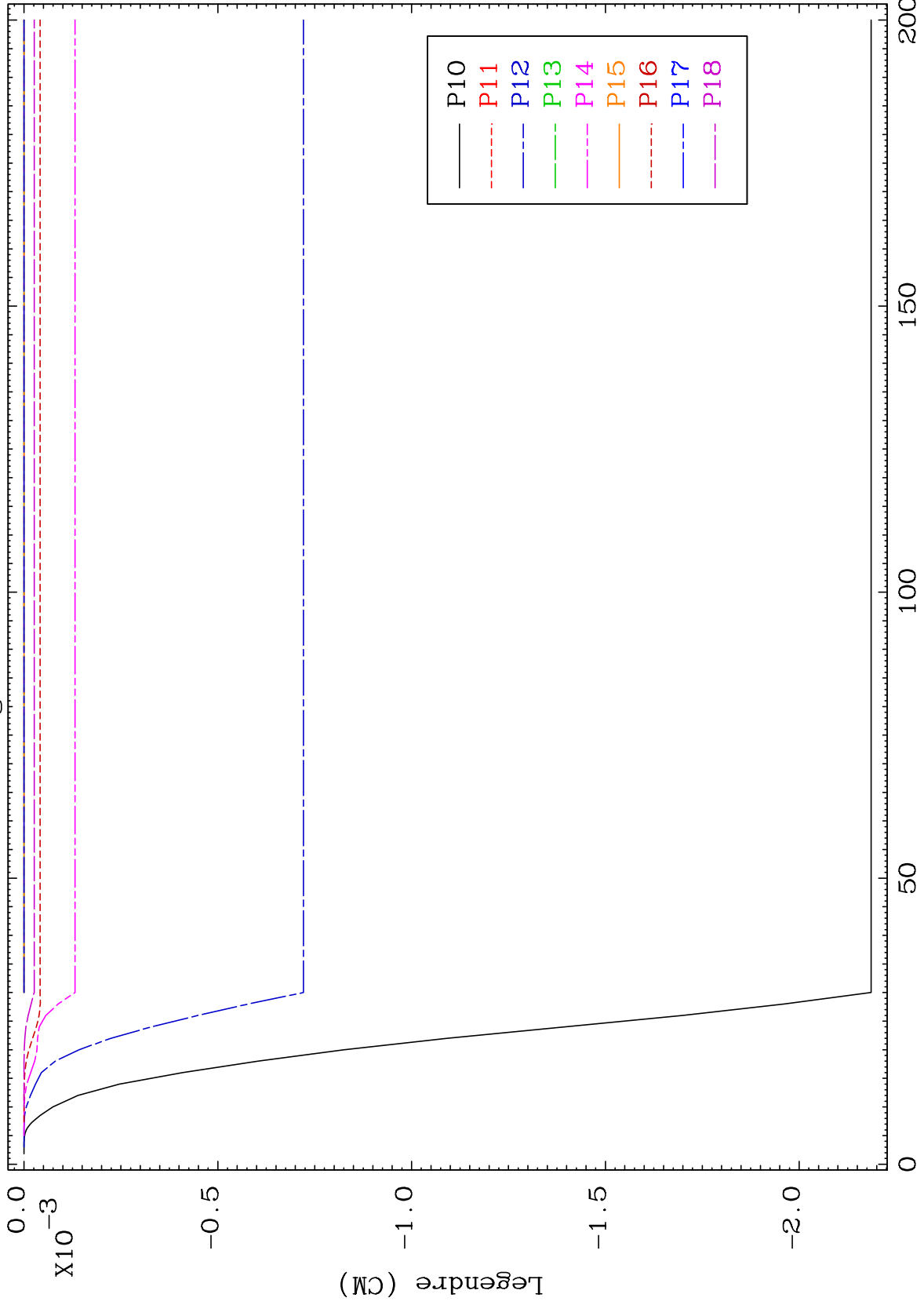


80 Incident Energy (MeV) 61-Pm-148

MAT 6152

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

61-Pm-148



61-Pm-148

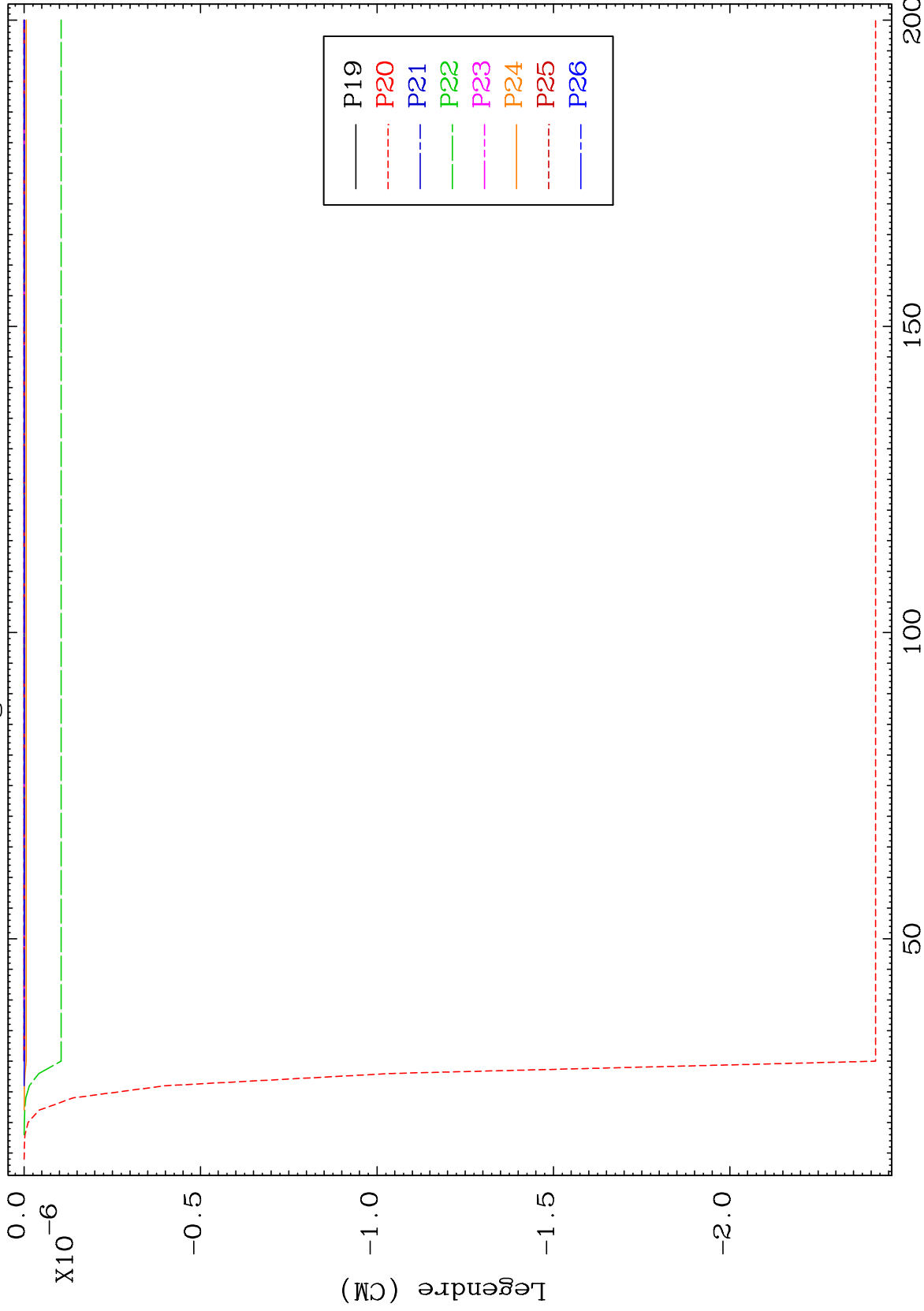
Incident Energy (MeV)

81

MAT 6152 MT= 68 (n,n') Level

61-Pm-148

Legendre Coefficients



82

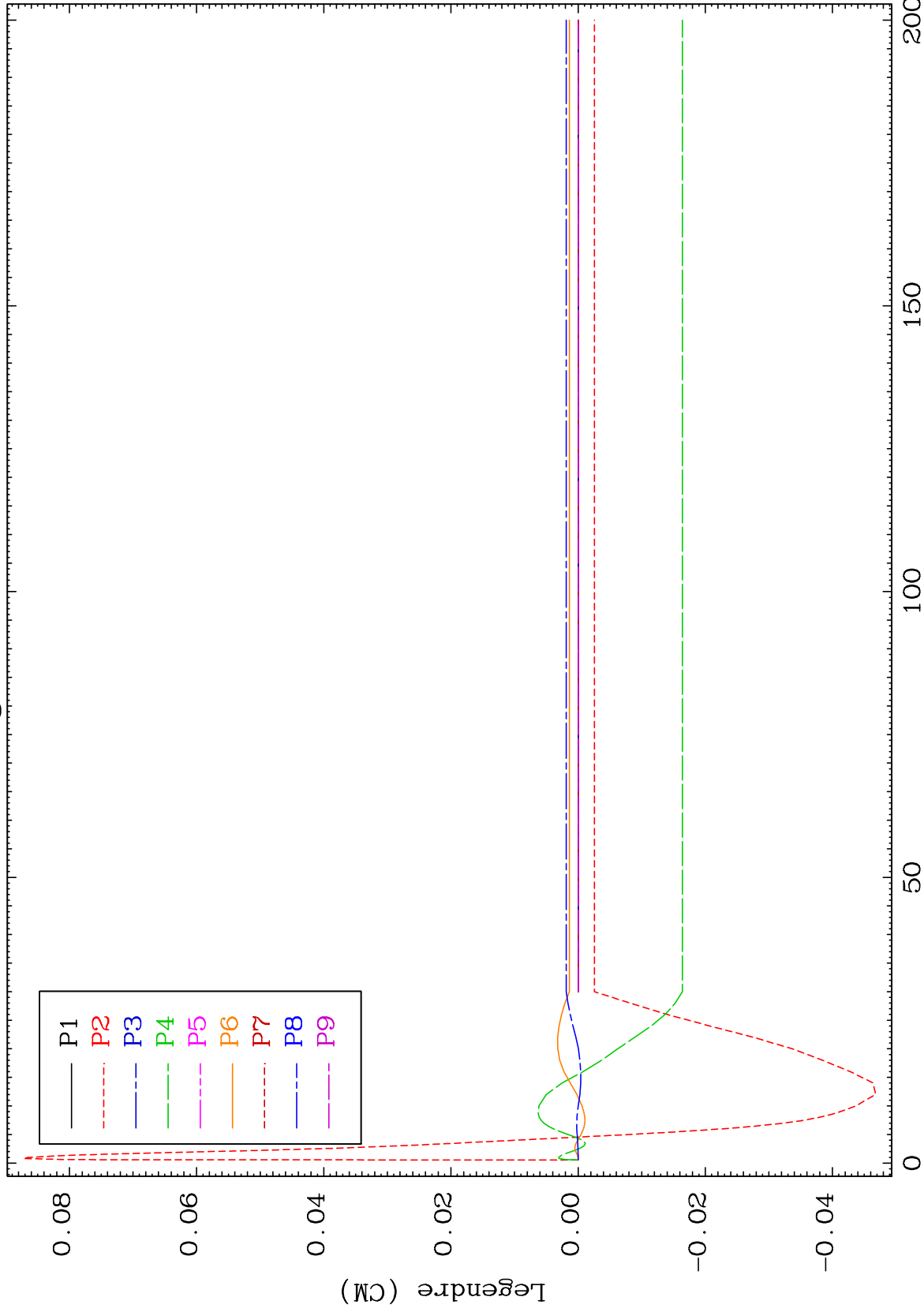
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



83

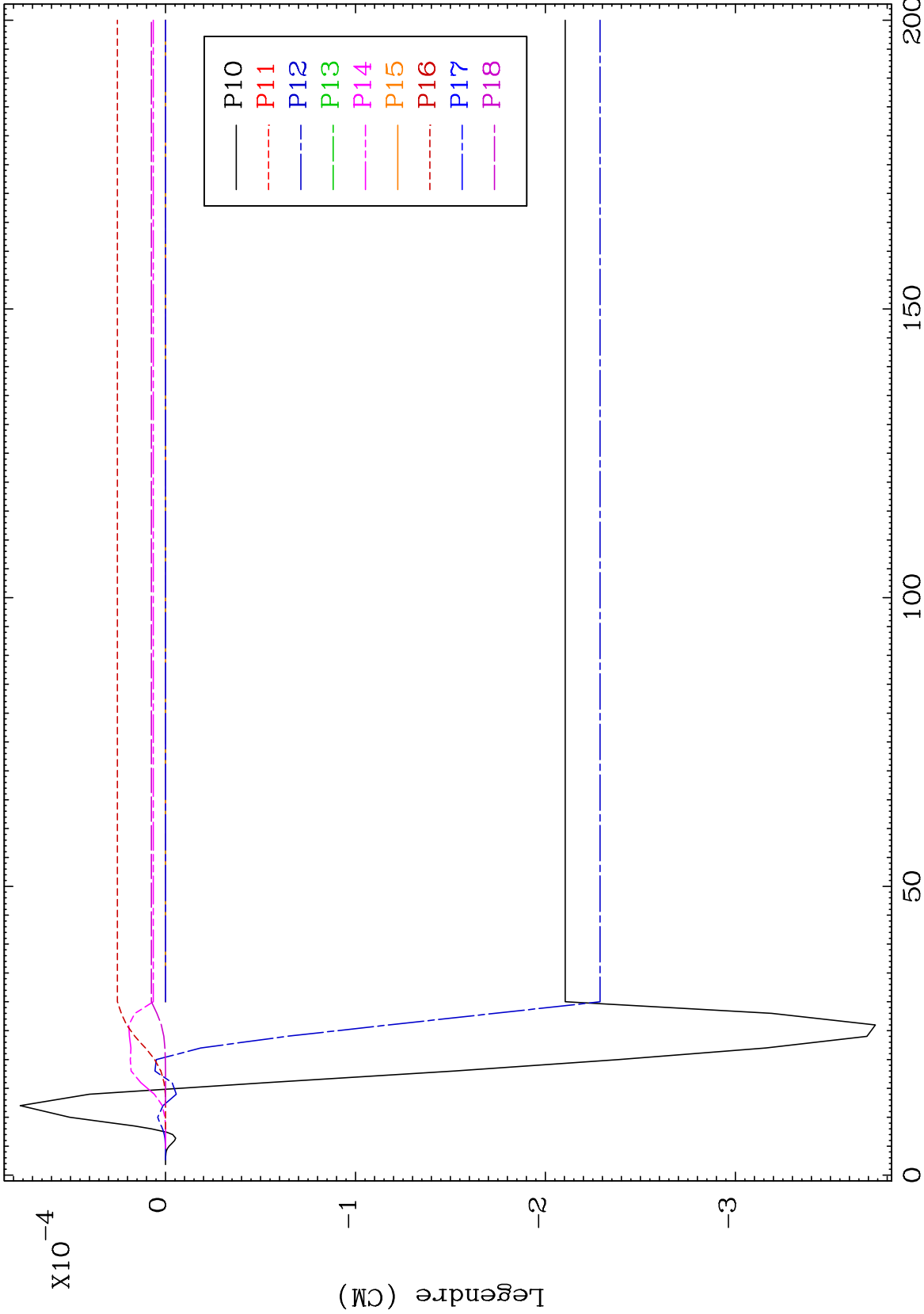
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



84

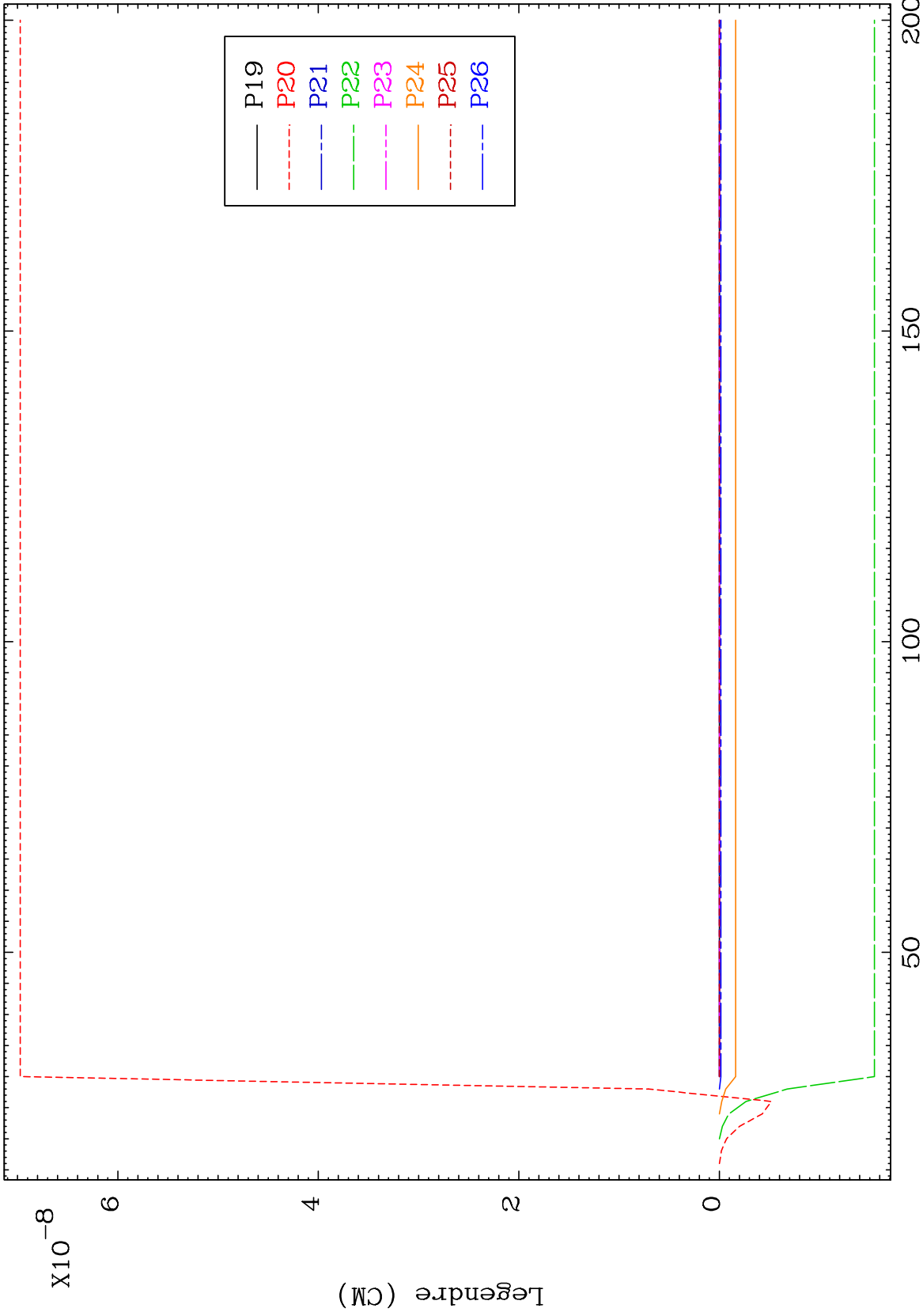
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



85

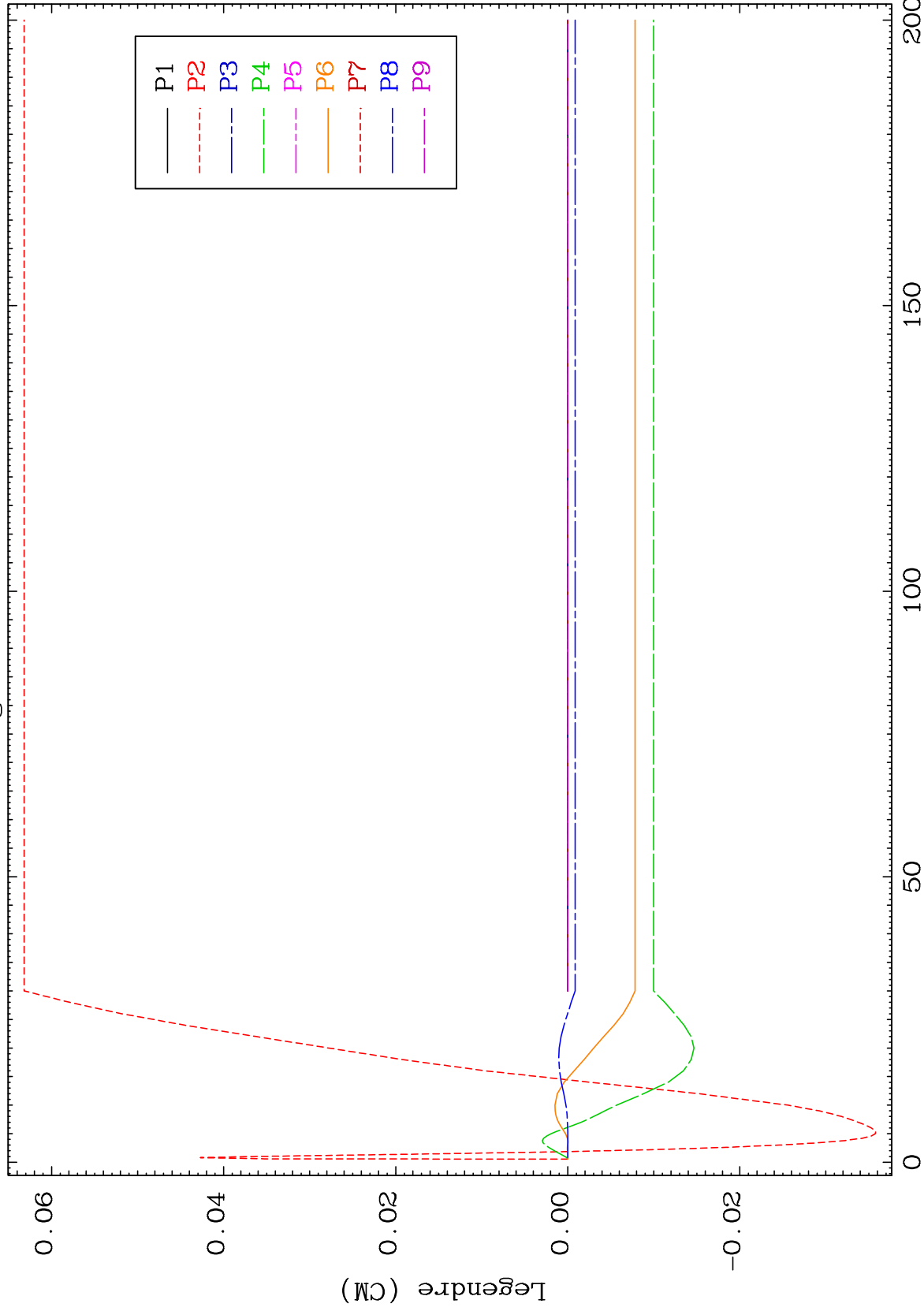
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



86

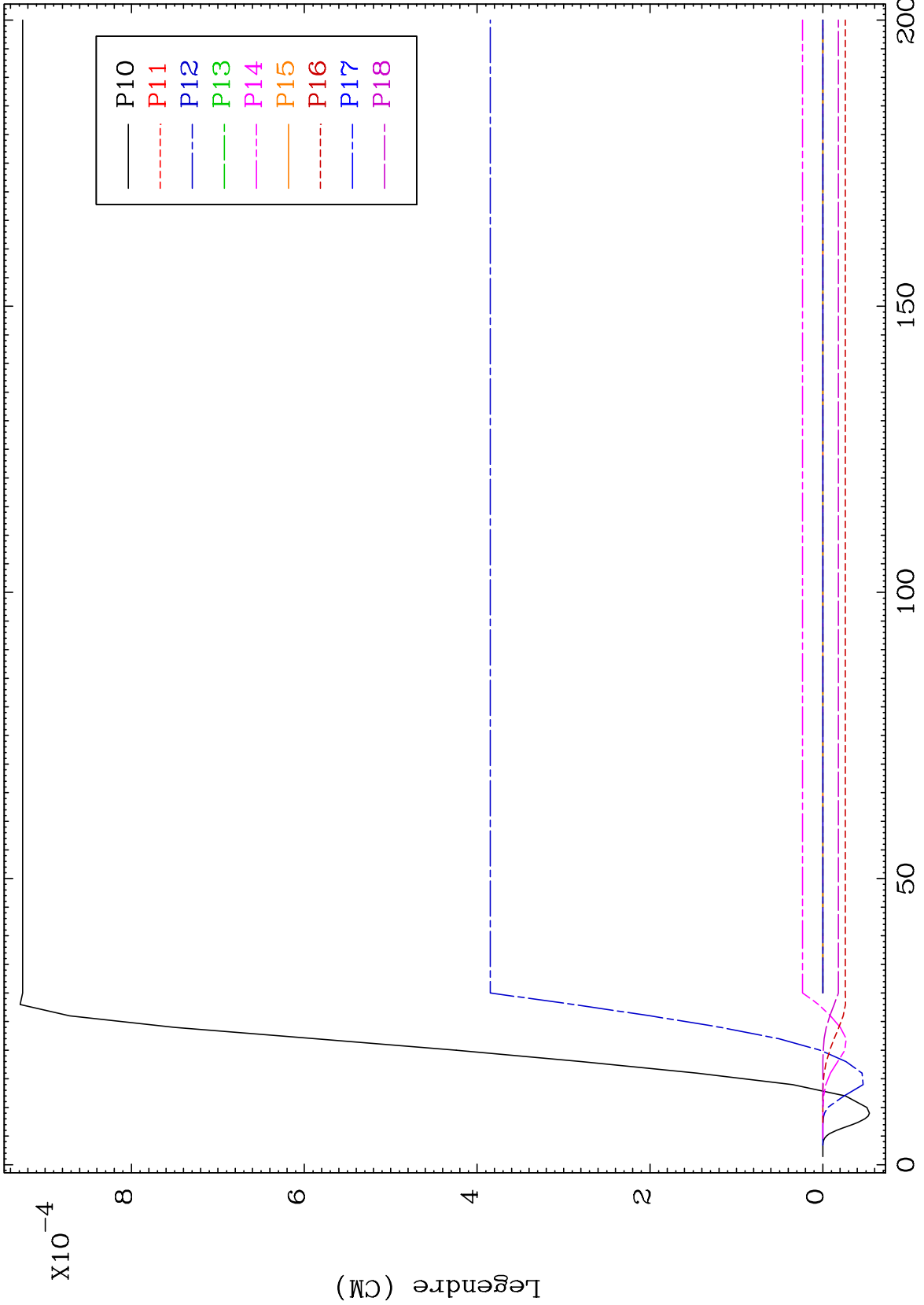
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



87

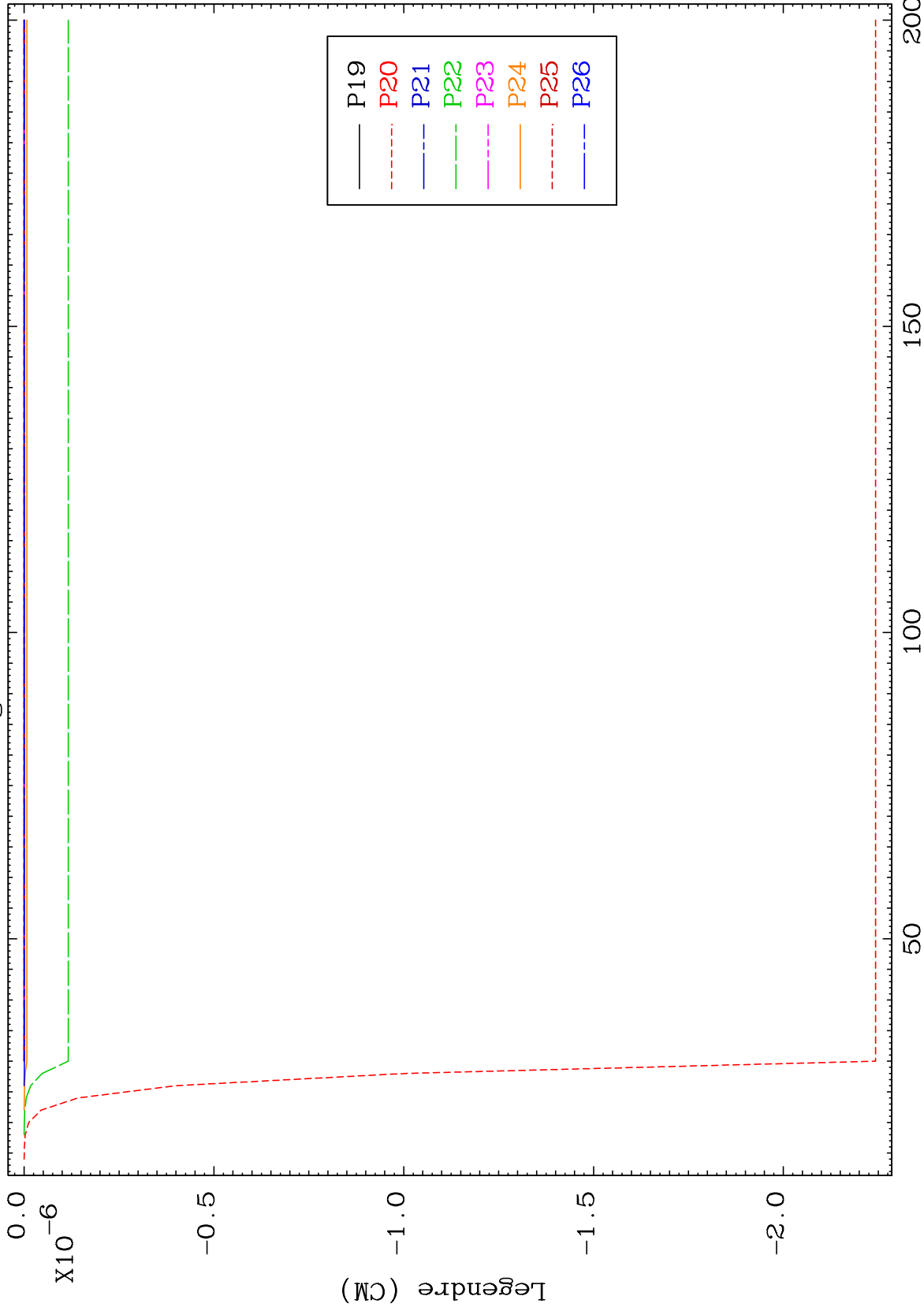
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



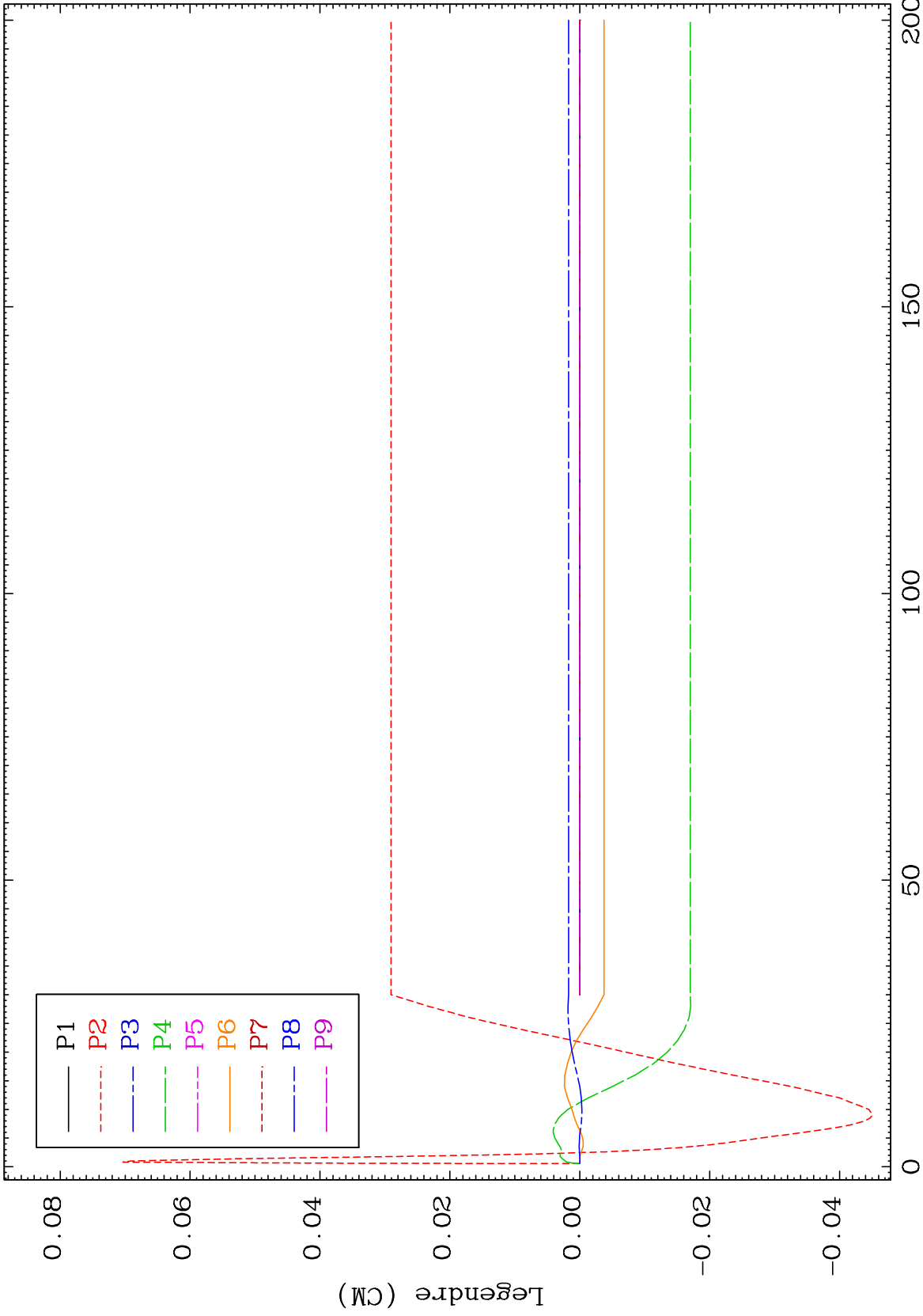
88

61-Pm-148

MAT 6152

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

61-Pm-148



89

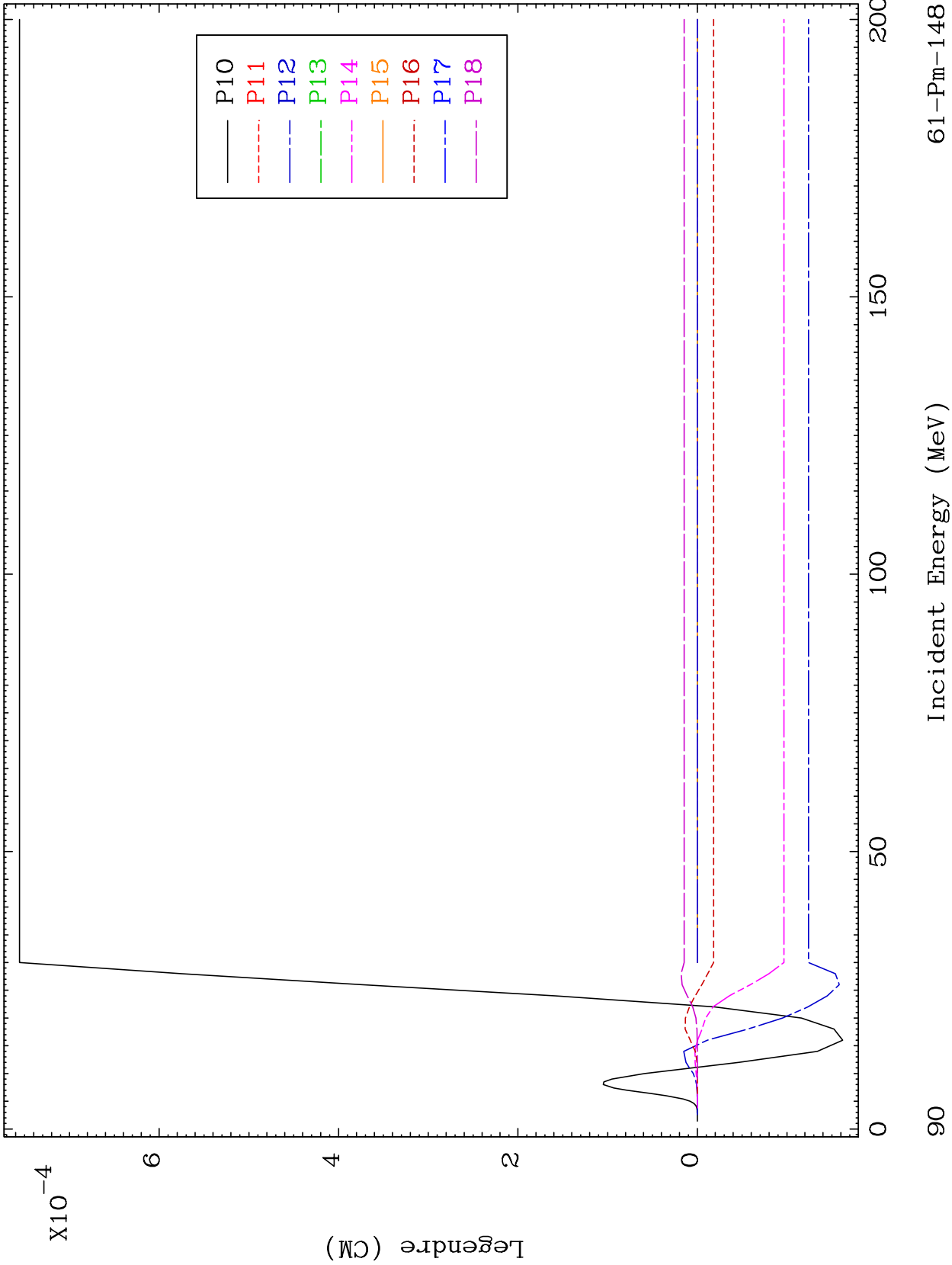
Incident Energy (MeV)

61-Pm-148

MAT 6152

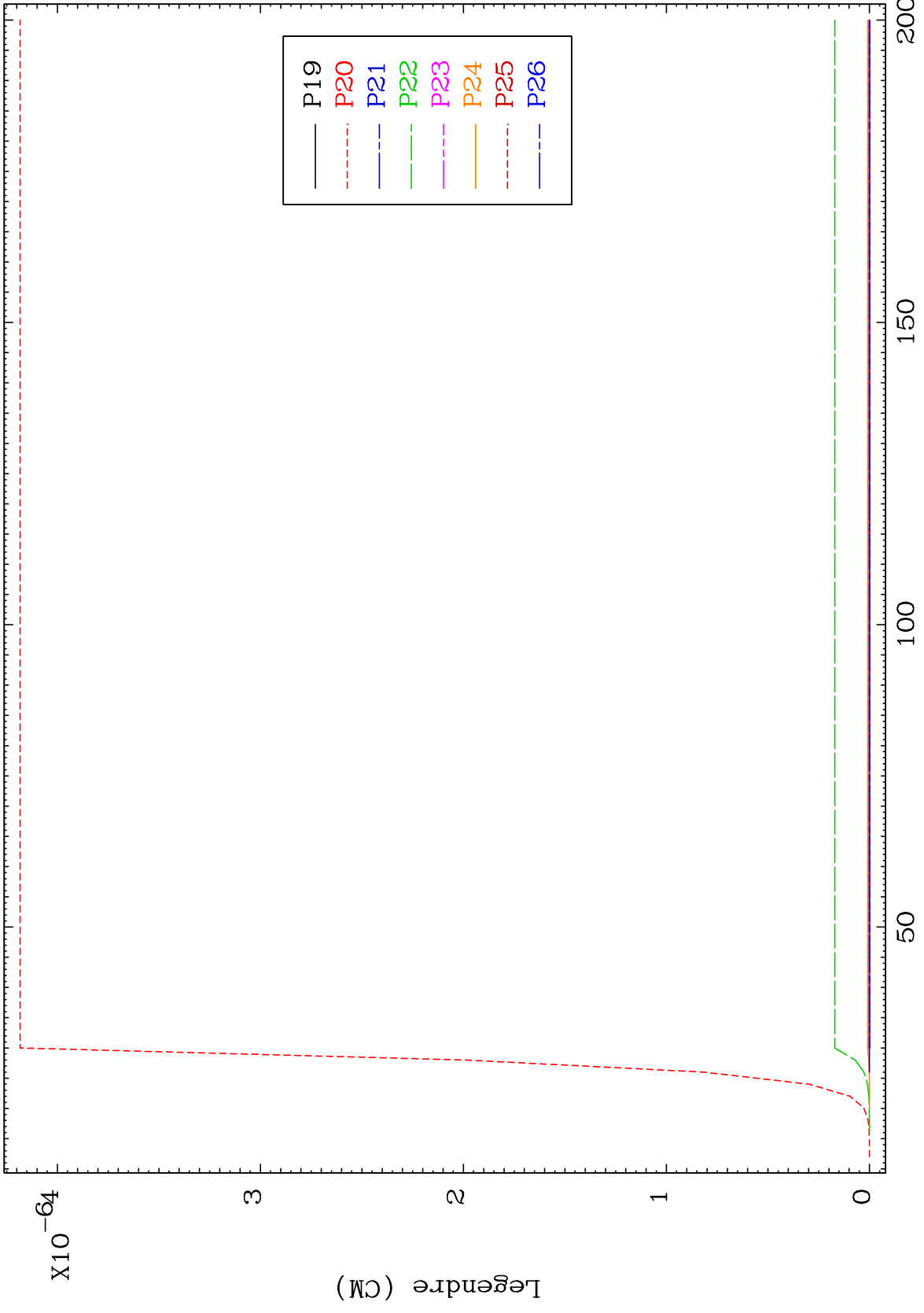
MT= 71 (n,n') Level
Legendre Coefficients

61-Pm-148



61-Pm-148

MAT 6152 MT= 71 (n,n') Level Legendre Coefficients 61-Pm-148

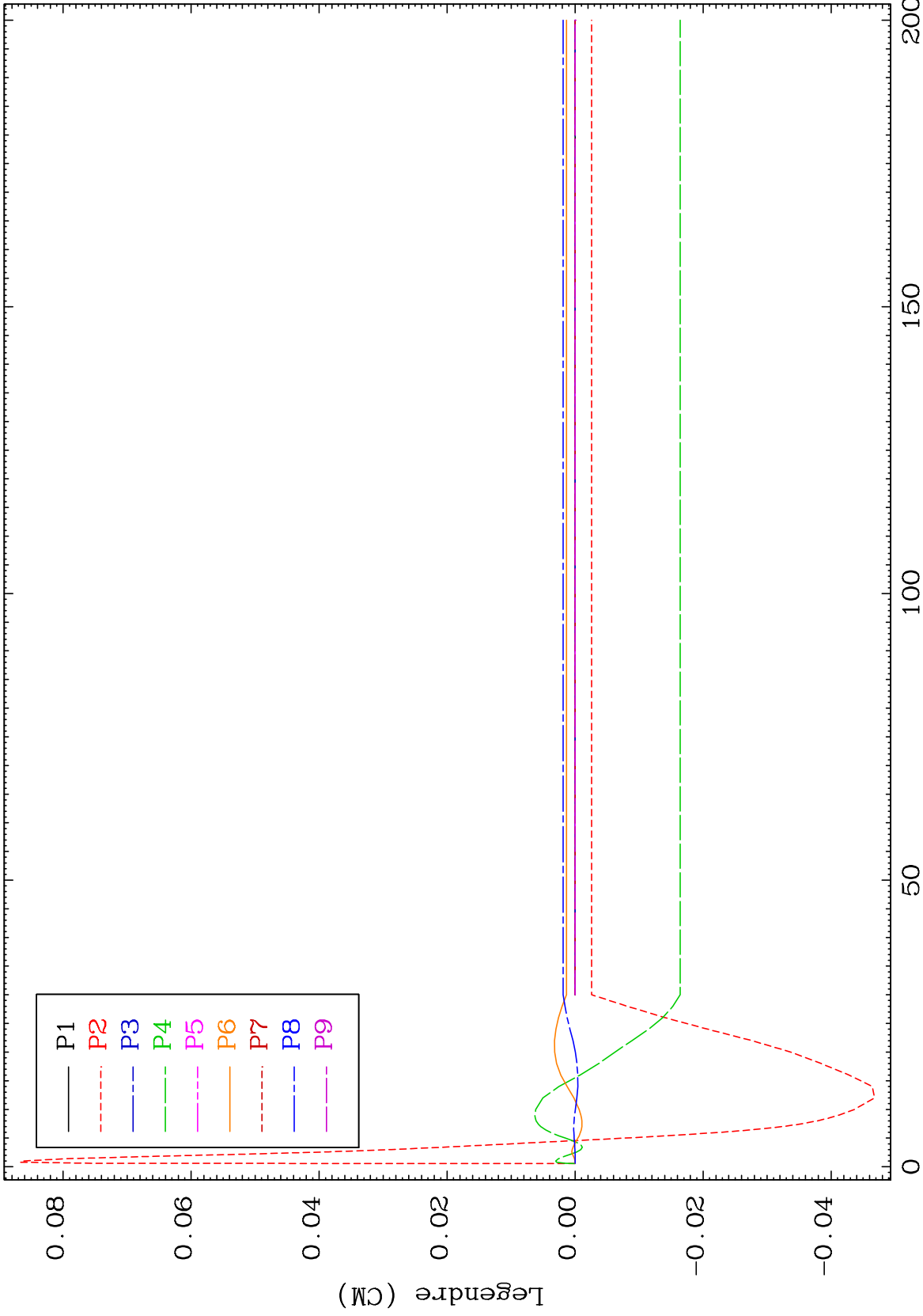


91 61-Pm-148

MAT 6152

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

61-Pm-148



92

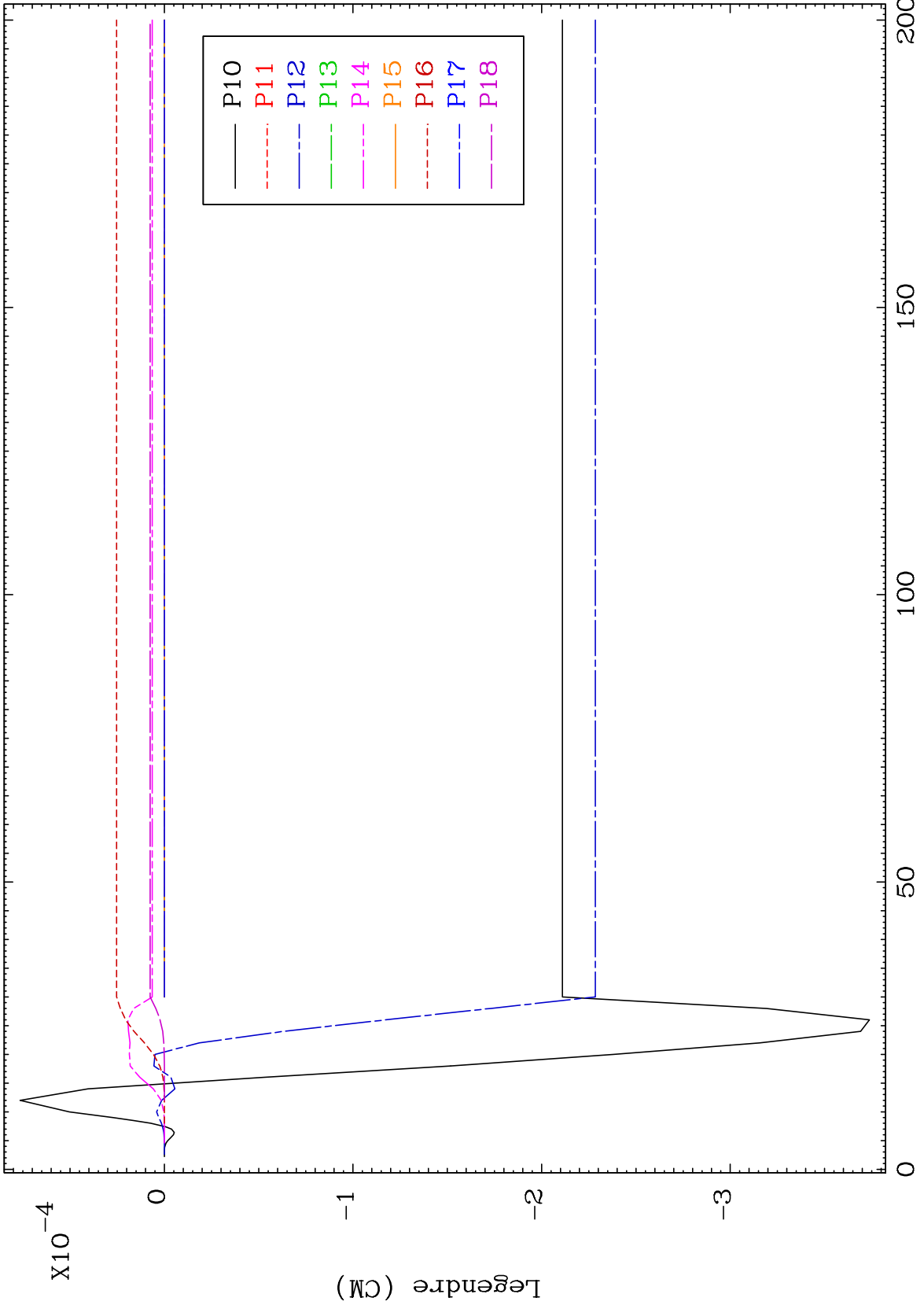
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



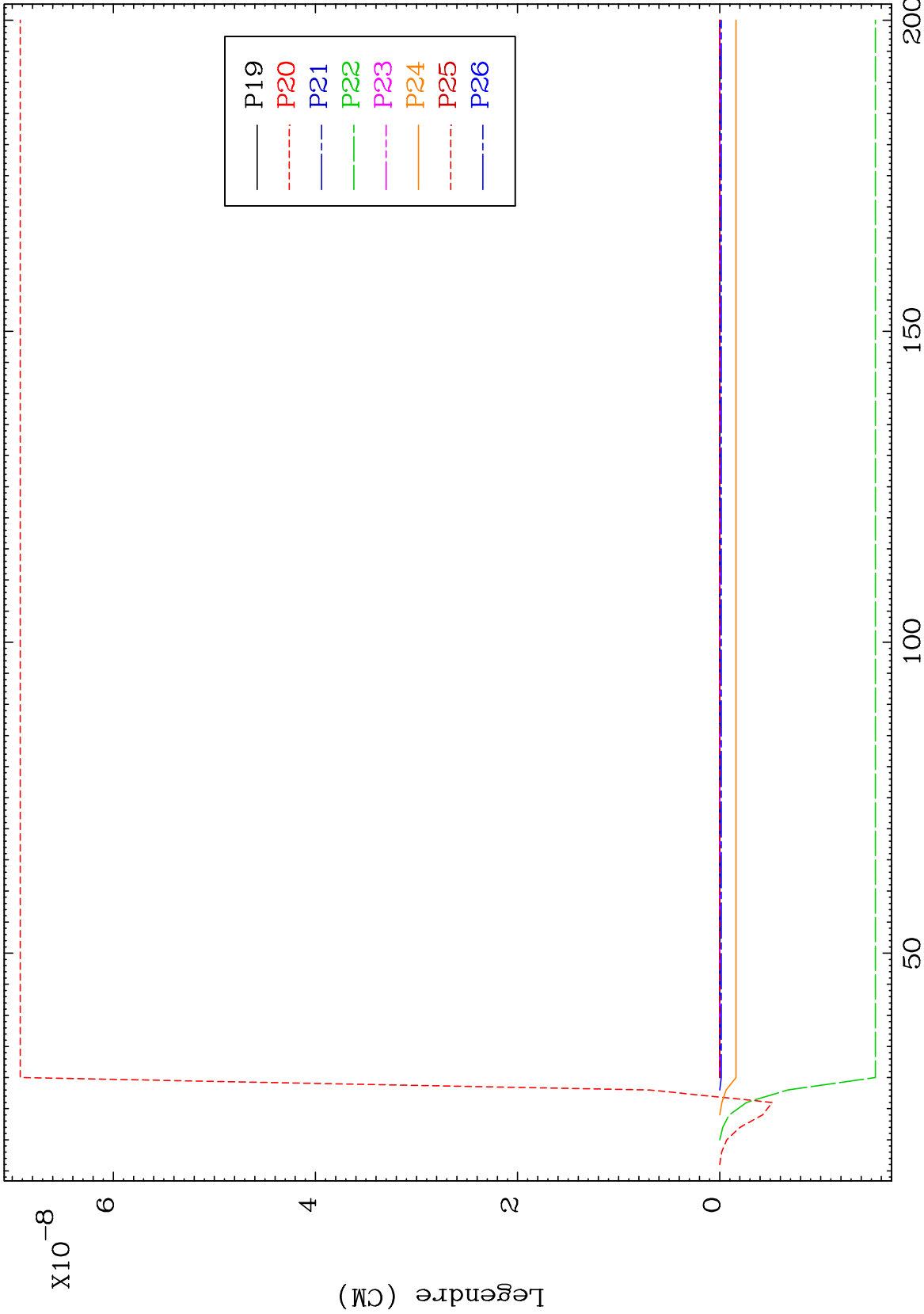
93

61-Pm-148

MAT 6152

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

61-Pm-148



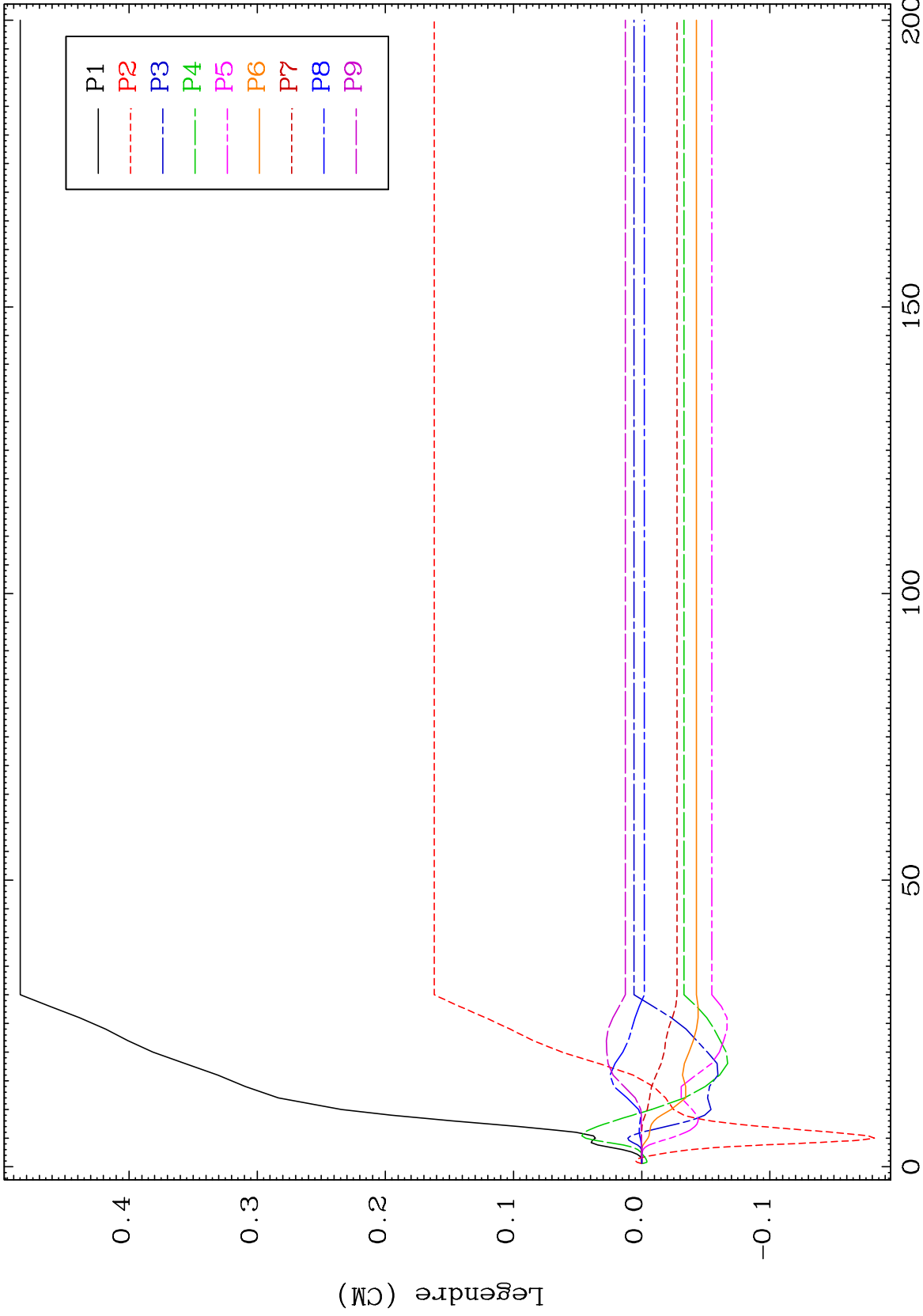
94

61-Pm-148

MAT 6152

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

61-Pm-148



95

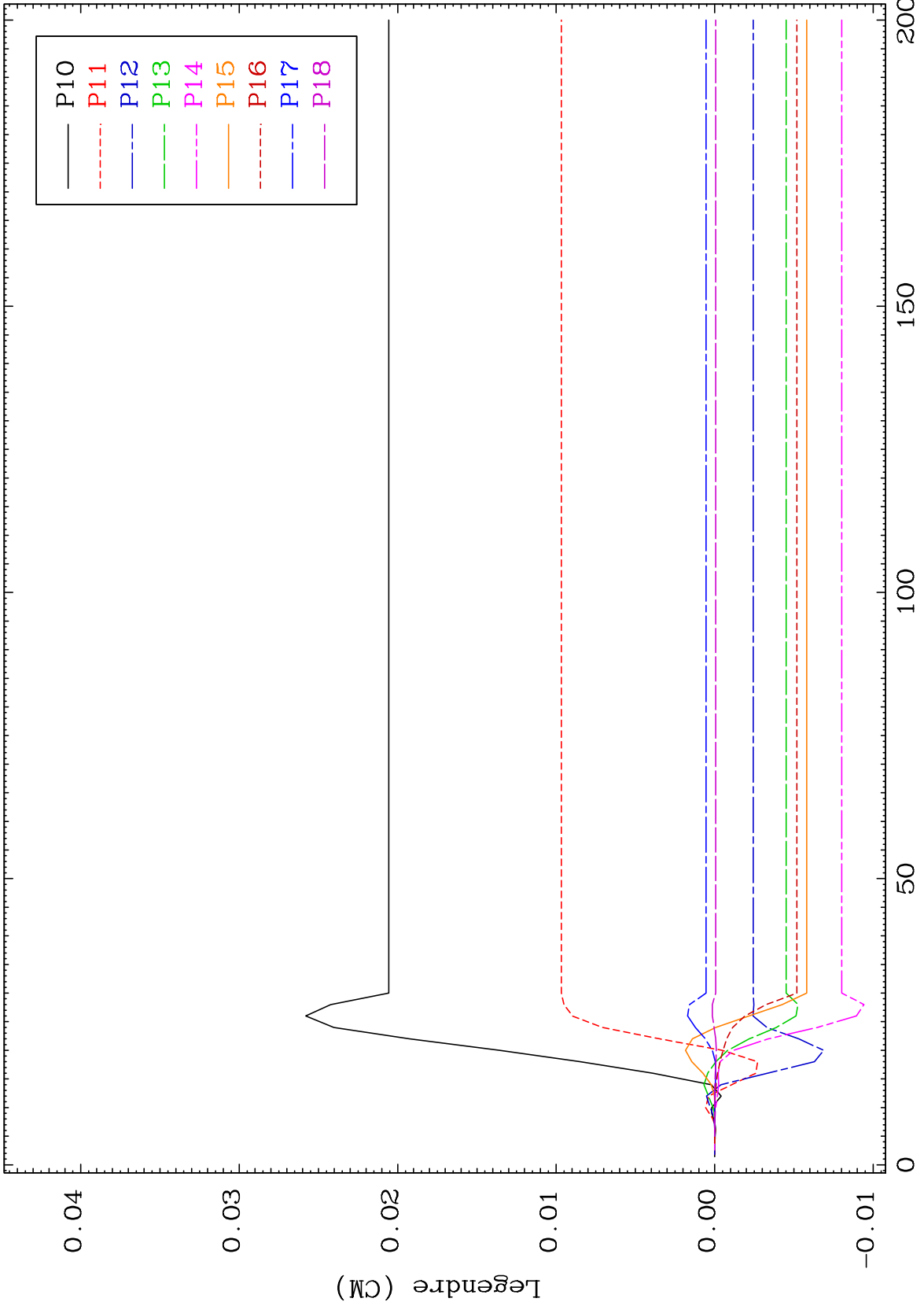
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



96

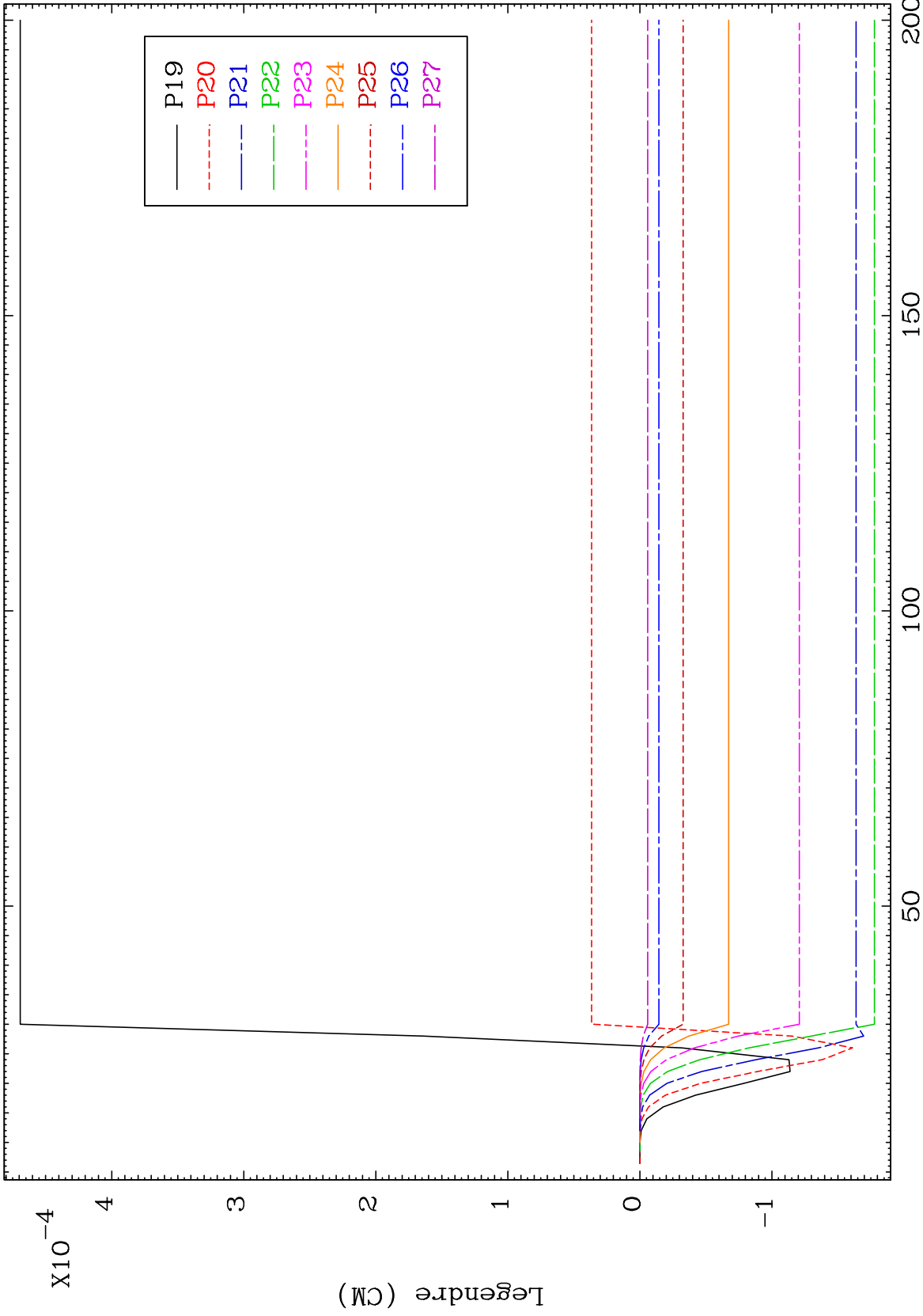
Incident Energy (MeV)

61-Pm-148

MAT 6152

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

61-Pm-148



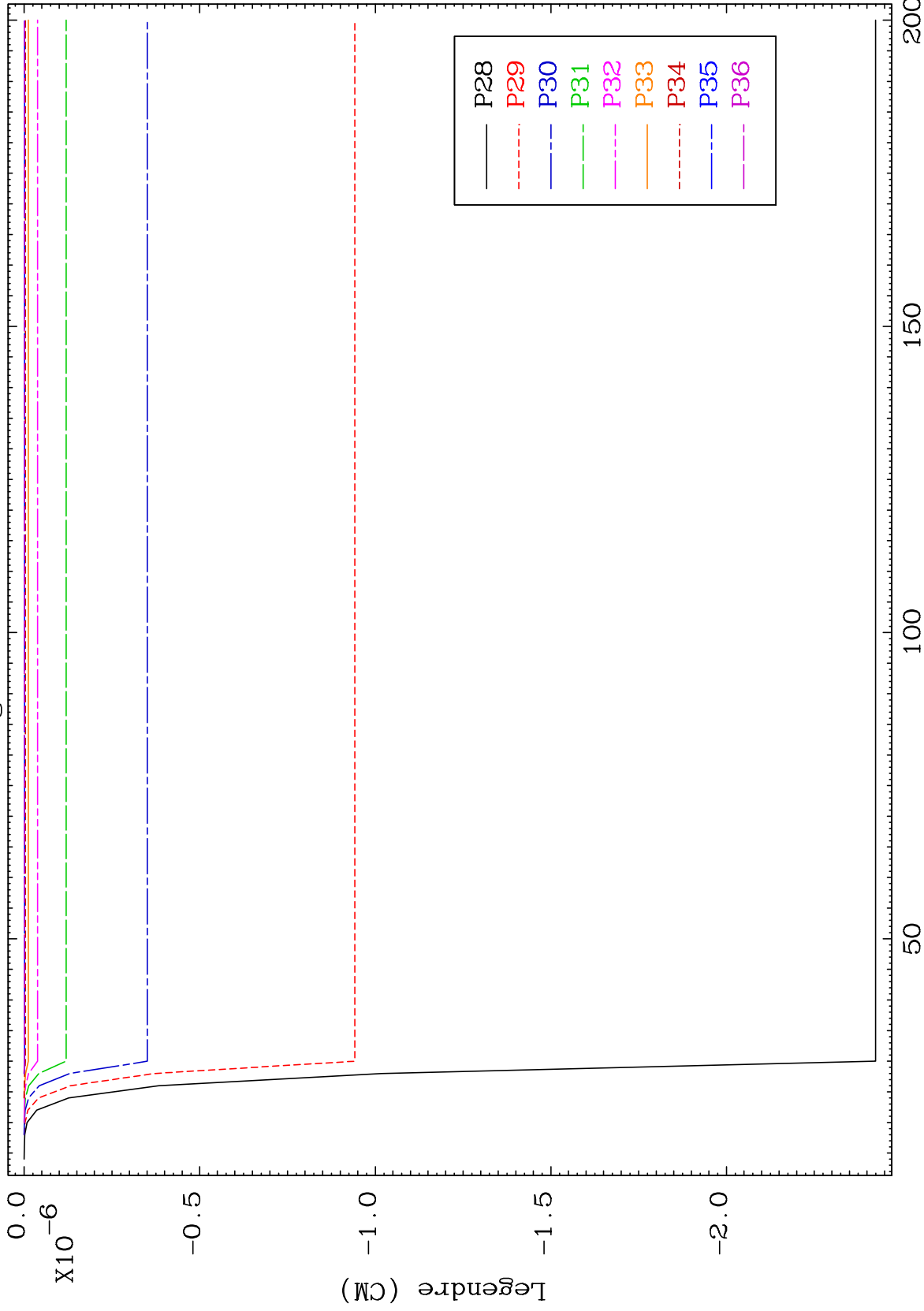
97

61-Pm-148

MAT 6152

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

61-Pm-148



98

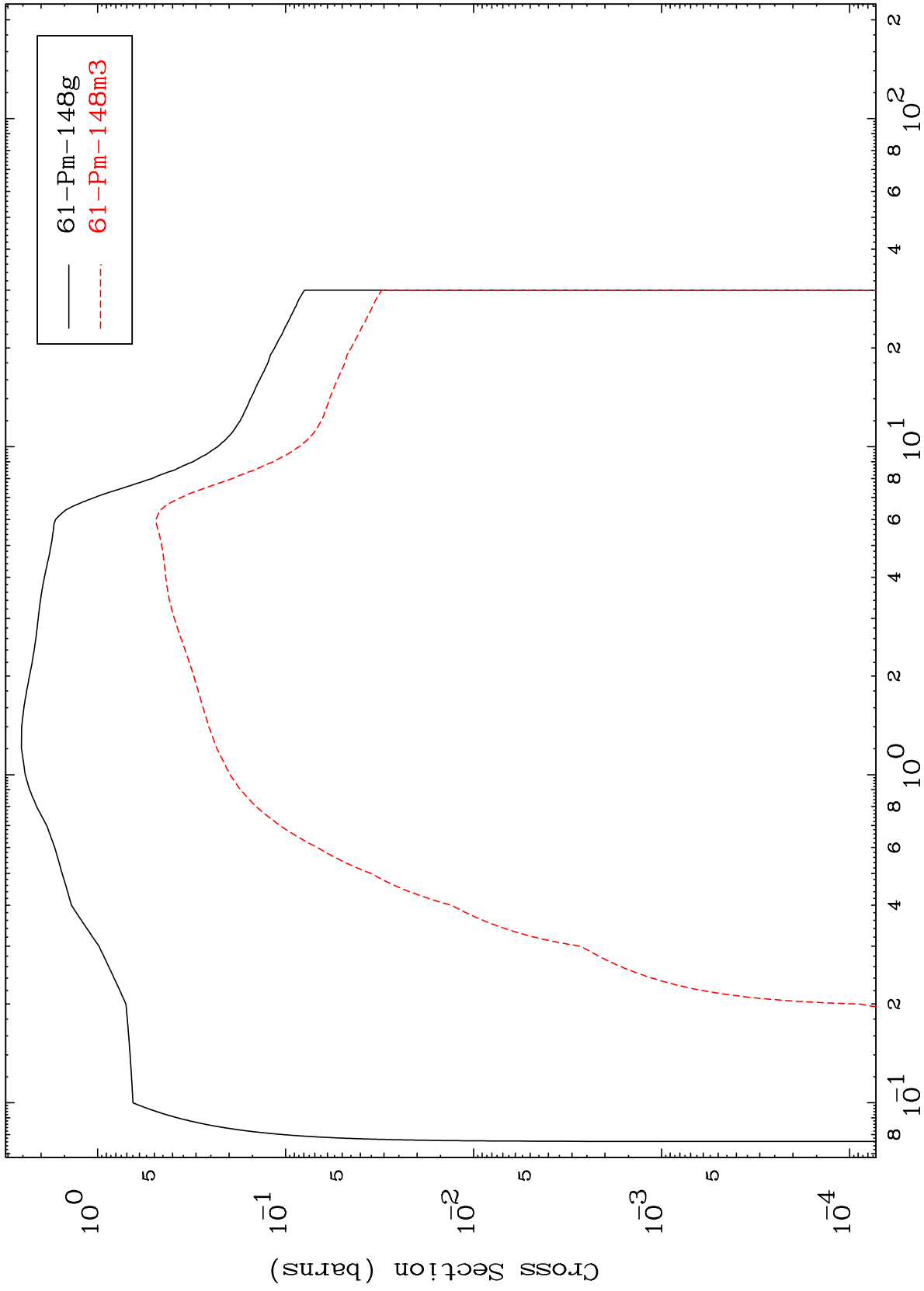
Incident Energy (MeV)

61-Pm-148

MAT 6152

61-Pm-148

Inelastic Radionuclide Production Cross Section



99

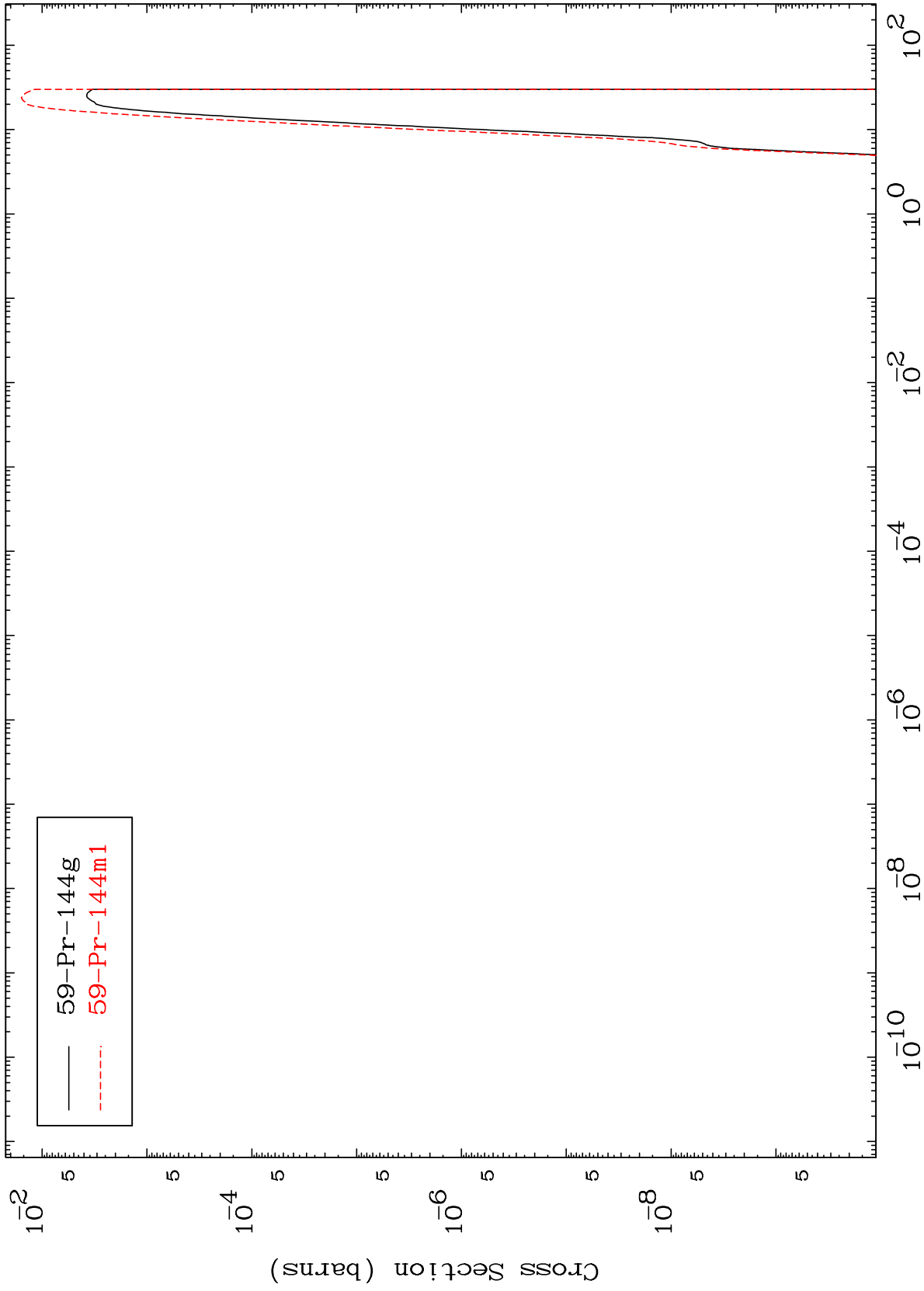
61-Pm-148

MAT 6152

(n,n') α

61-Pm-148

Radionuclide Production Cross Section



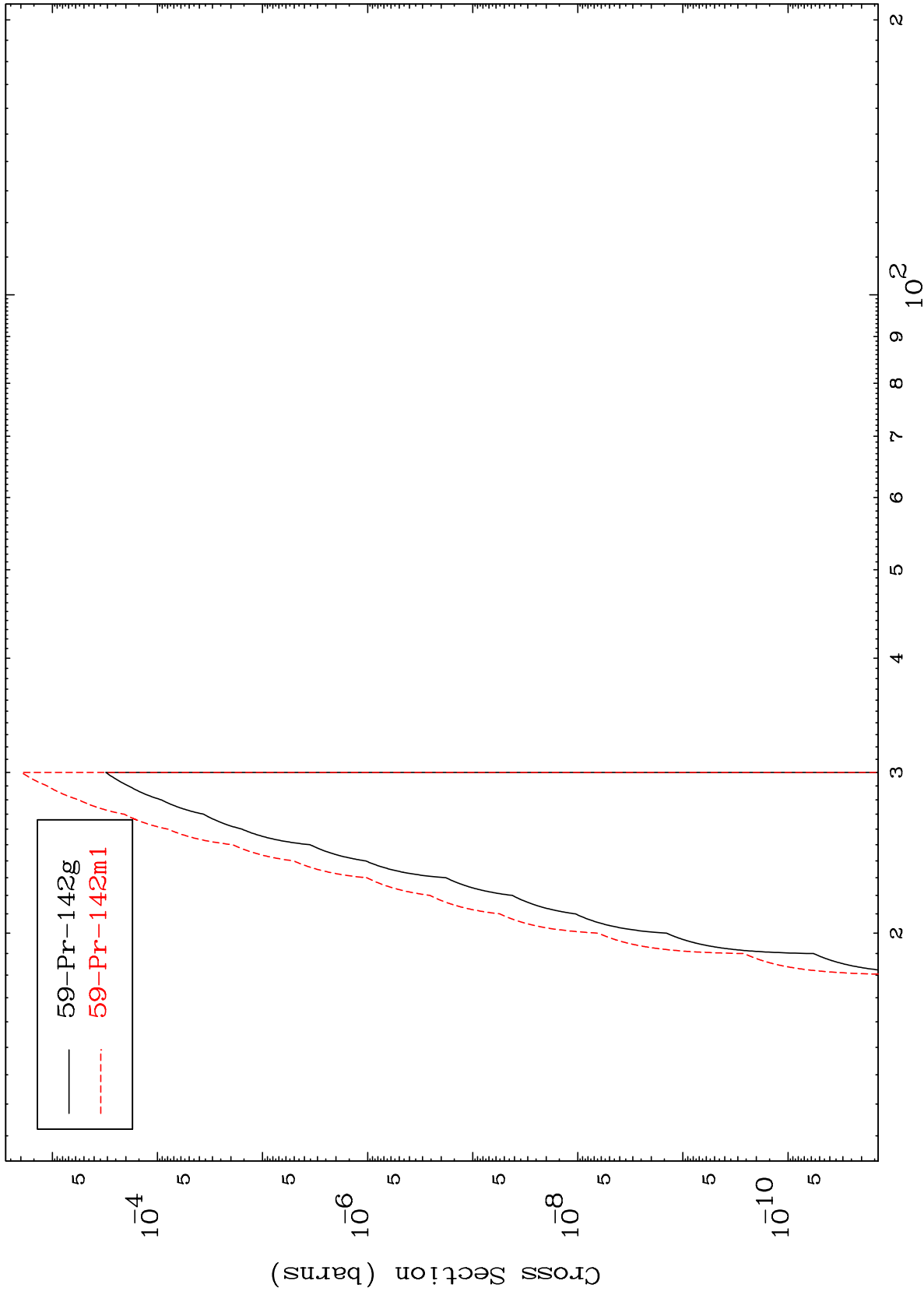
— 59-Pr-144g
- - - 59-Pr-144m1

MAT 6152

(n,3n) α

61-Pm-148

Radionuclide Production Cross Section



101

Incident Energy (MeV)

61-Pm-148