

Program EVALPLOT
(Version 2018-1)

by

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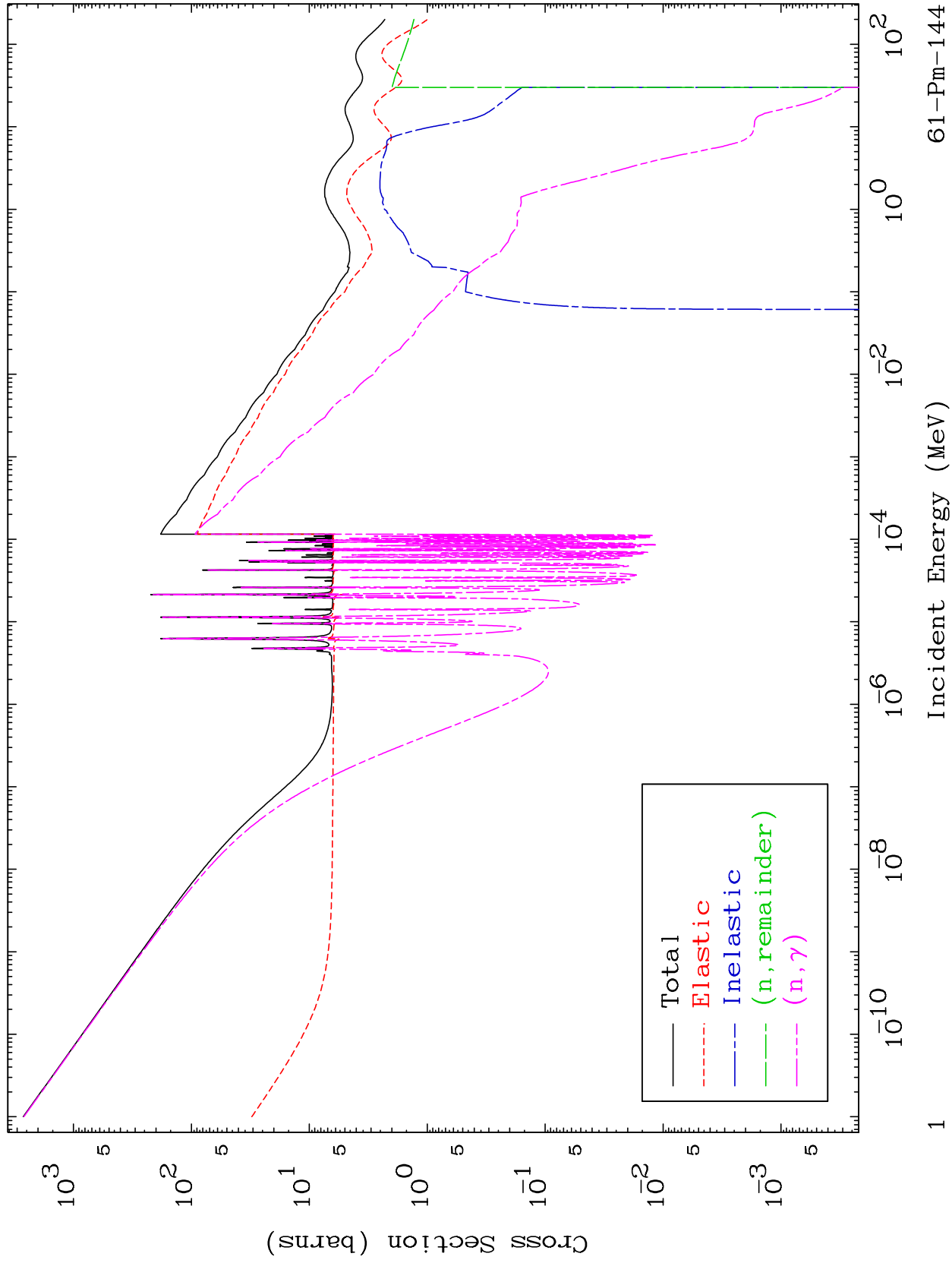
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6140

Major
293 Kelvin Cross Sections

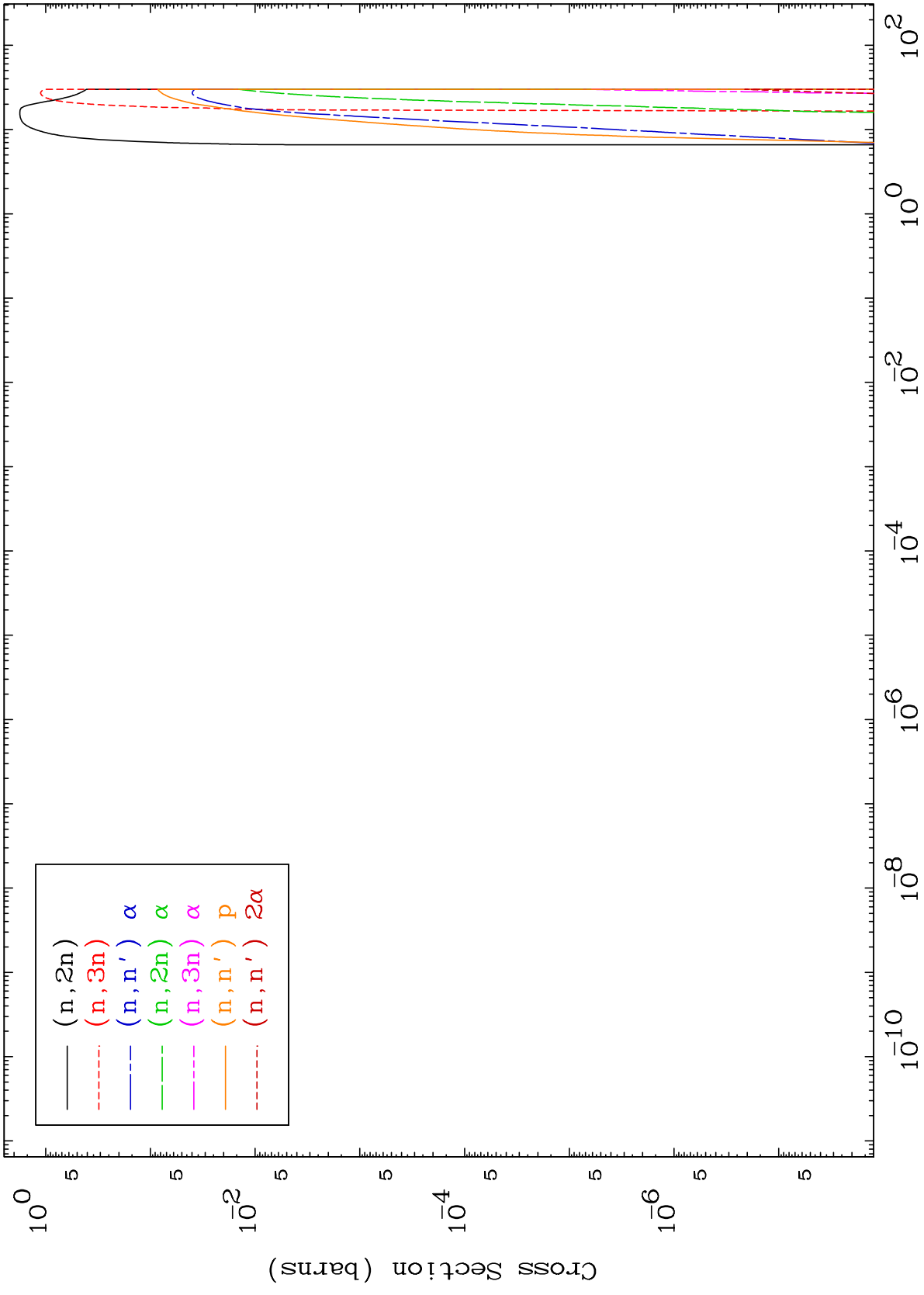
61-Pm-144



MAT 6140

Neutron Production
293 Kelvin Cross Sections

61-Pm-144

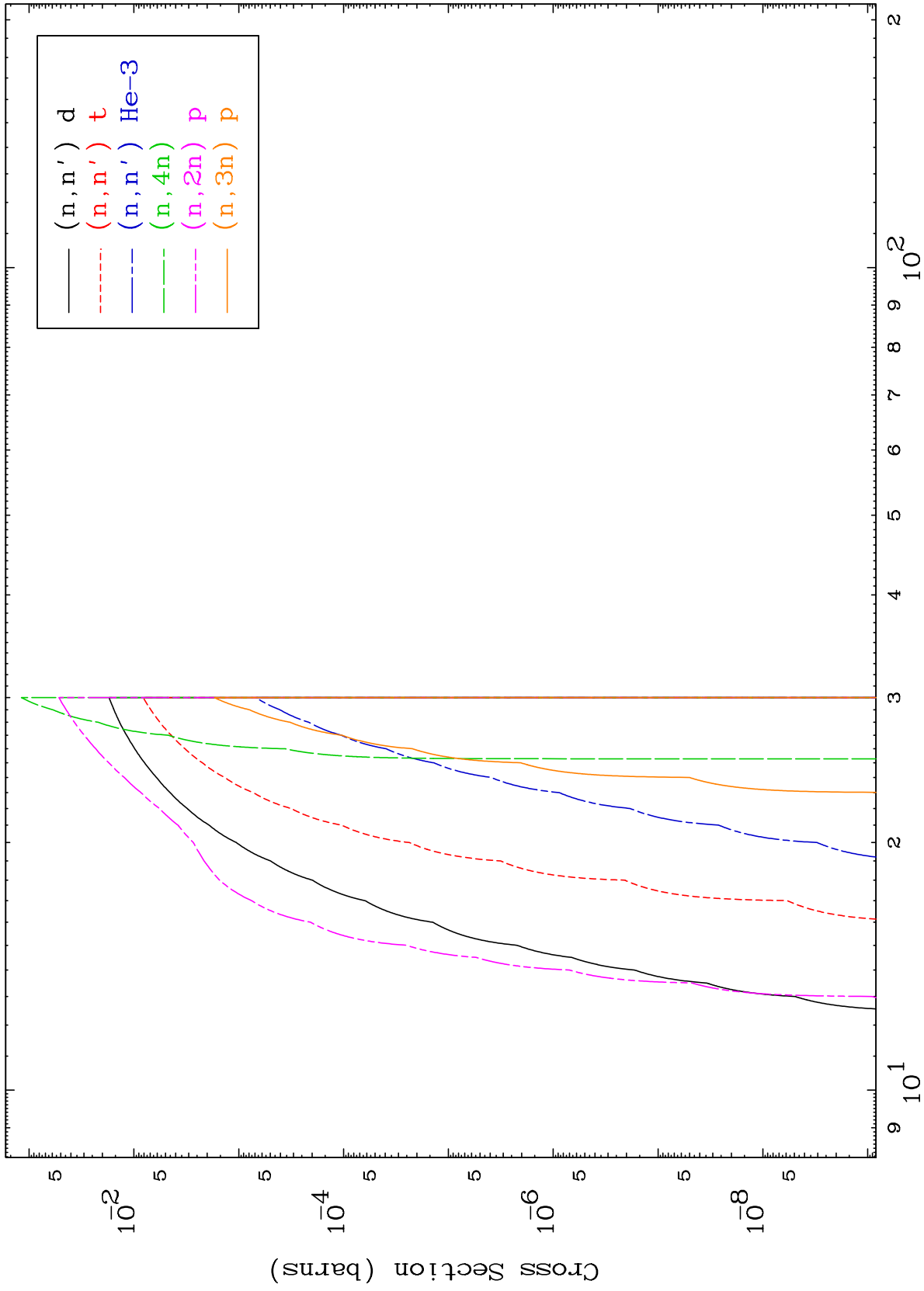


61-Pm-144

MAT 6140

Neutron Production 293 Kelvin Cross Sections

61-Pm-144



3

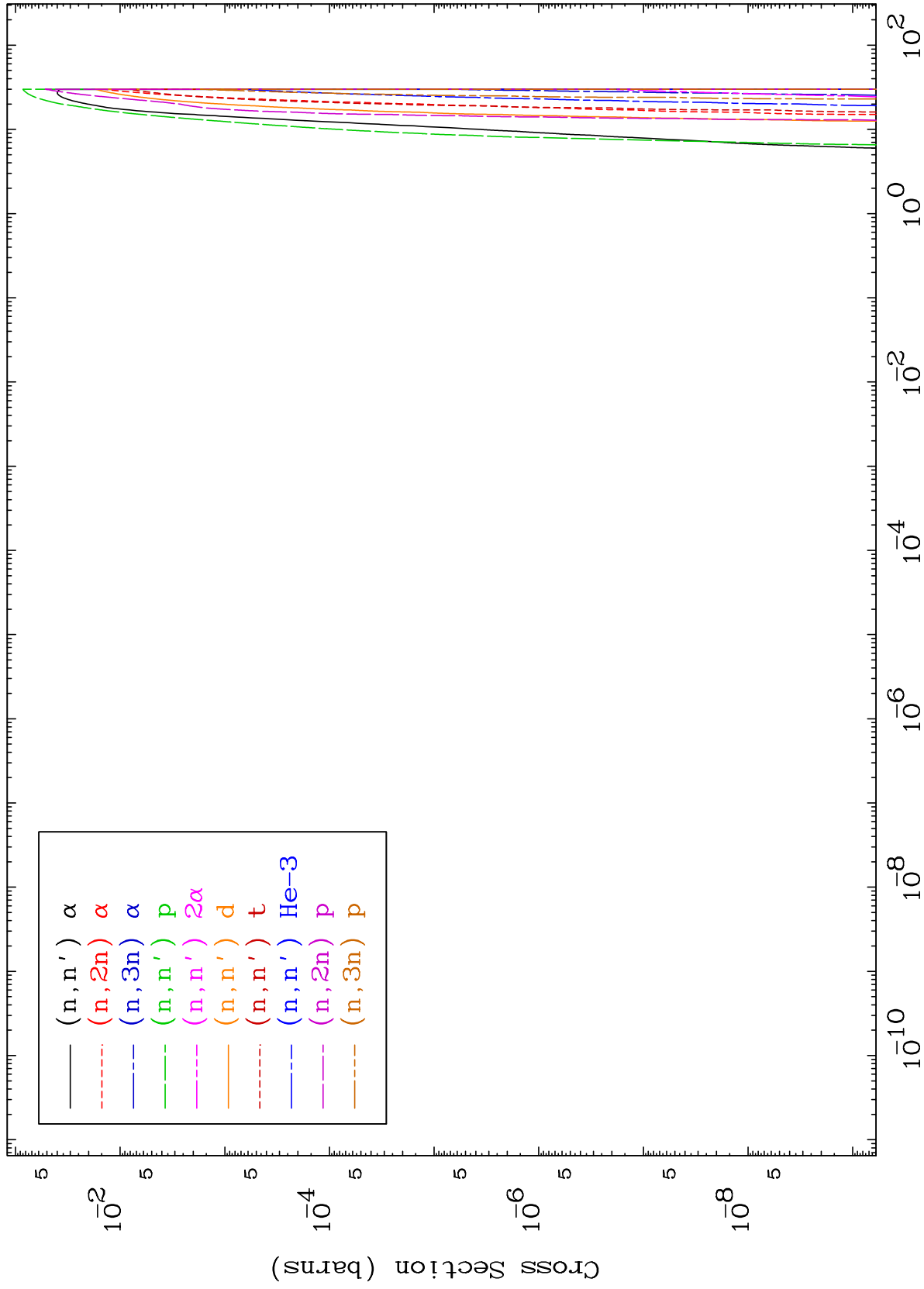
Incident Energy (MeV)

61-Pm-144

MAT 6140

293 Kelvin Cross Sections

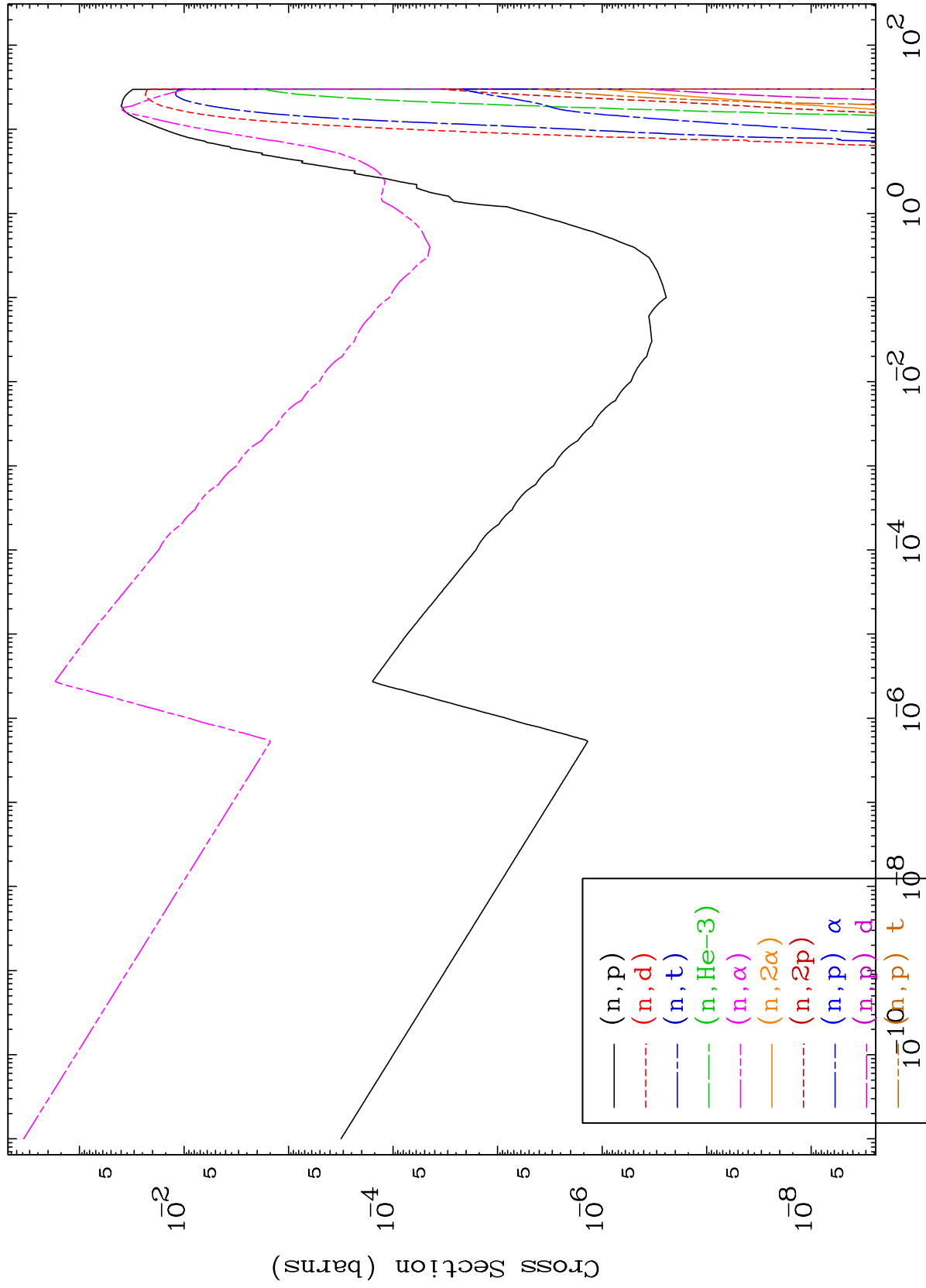
61-Pm-144



MAT 6140

Charged Particle
293 Kelvin Cross Sections

61-Pm-144

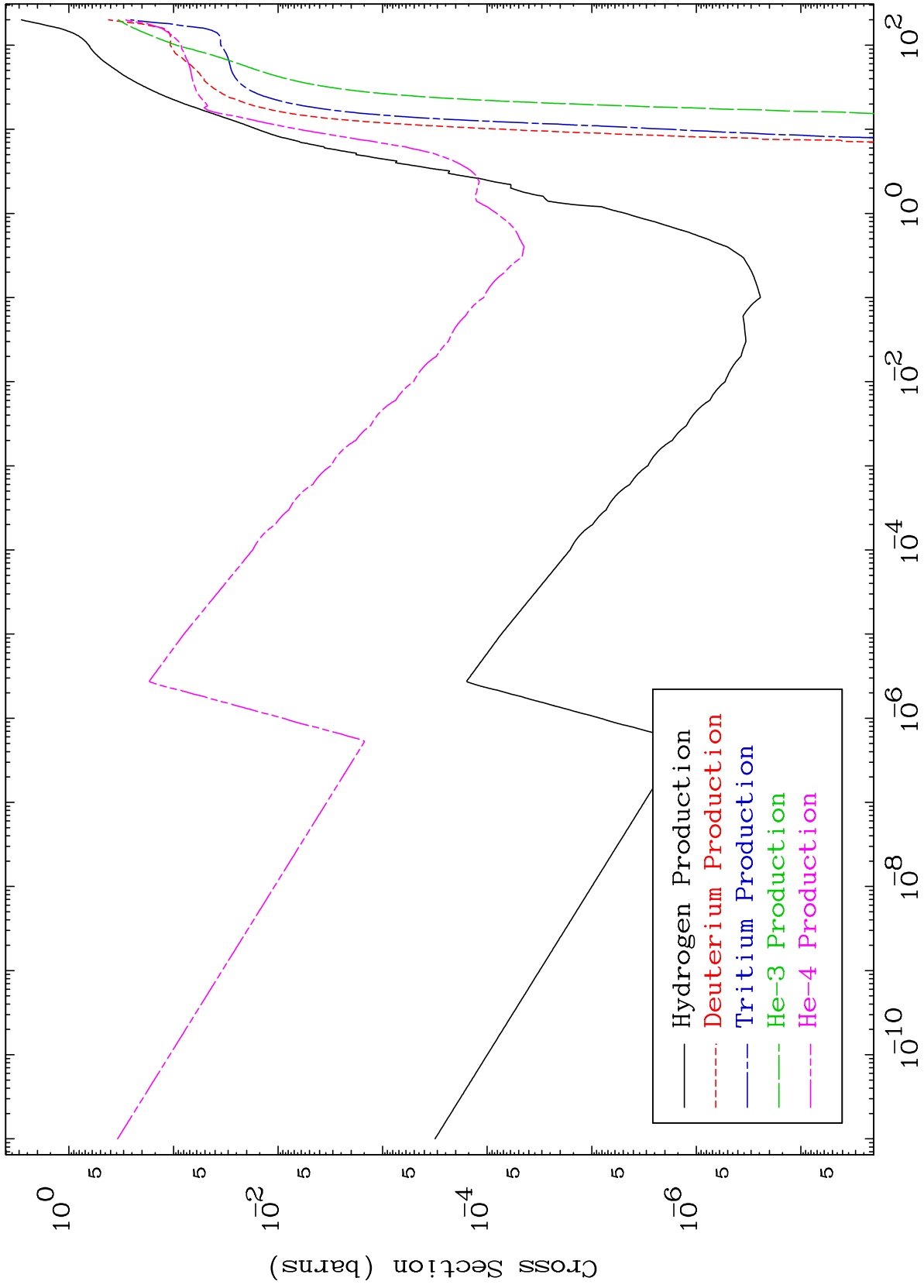


5

MAT 6140

Particle Production
293 Kelvin Cross Sections

61-Pm-144



6

Incident Energy (MeV)

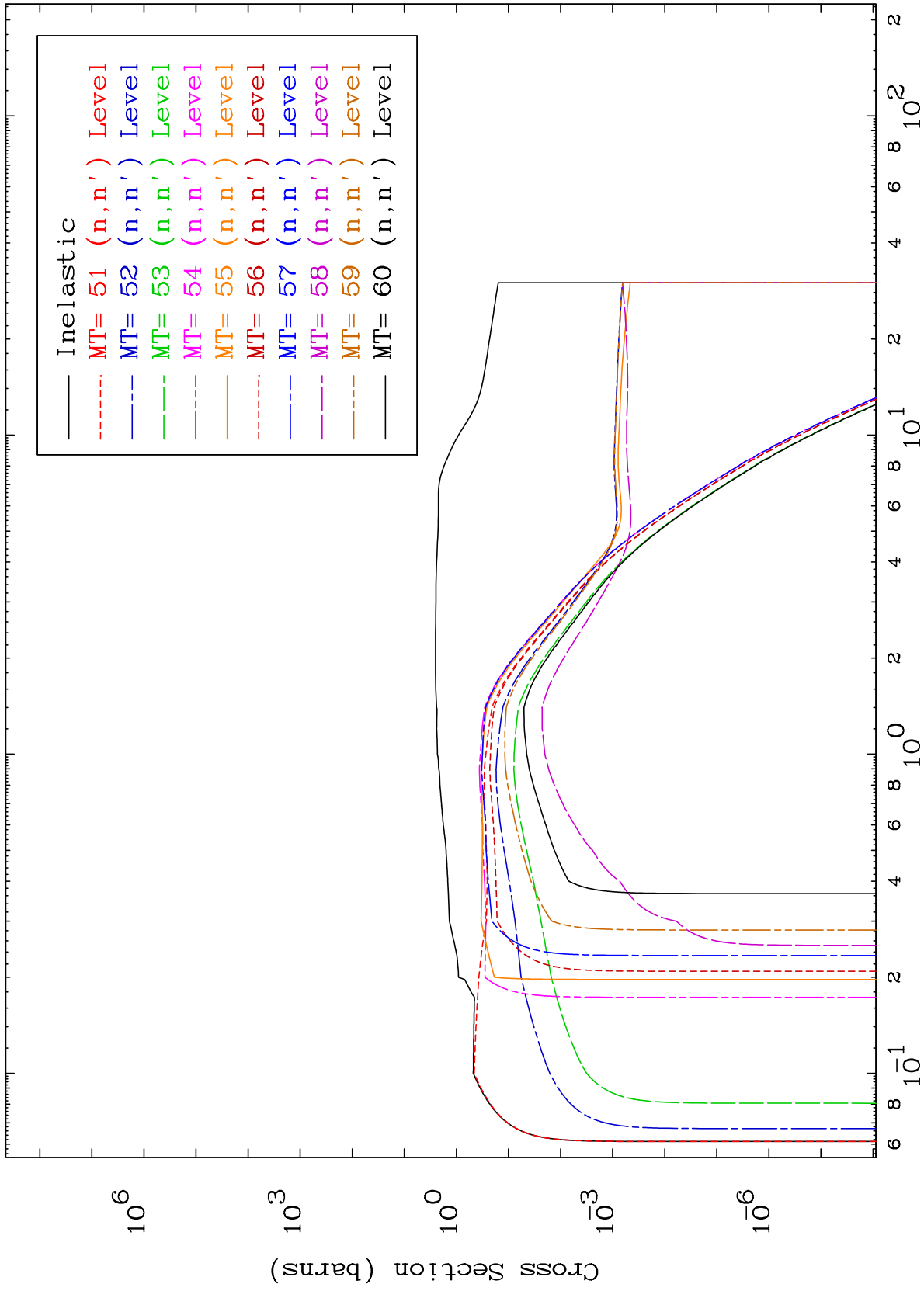
61-Pm-144

MAT 6140

(n,n') Level

61-Pm-144

293 Kelvin Cross Sections



7

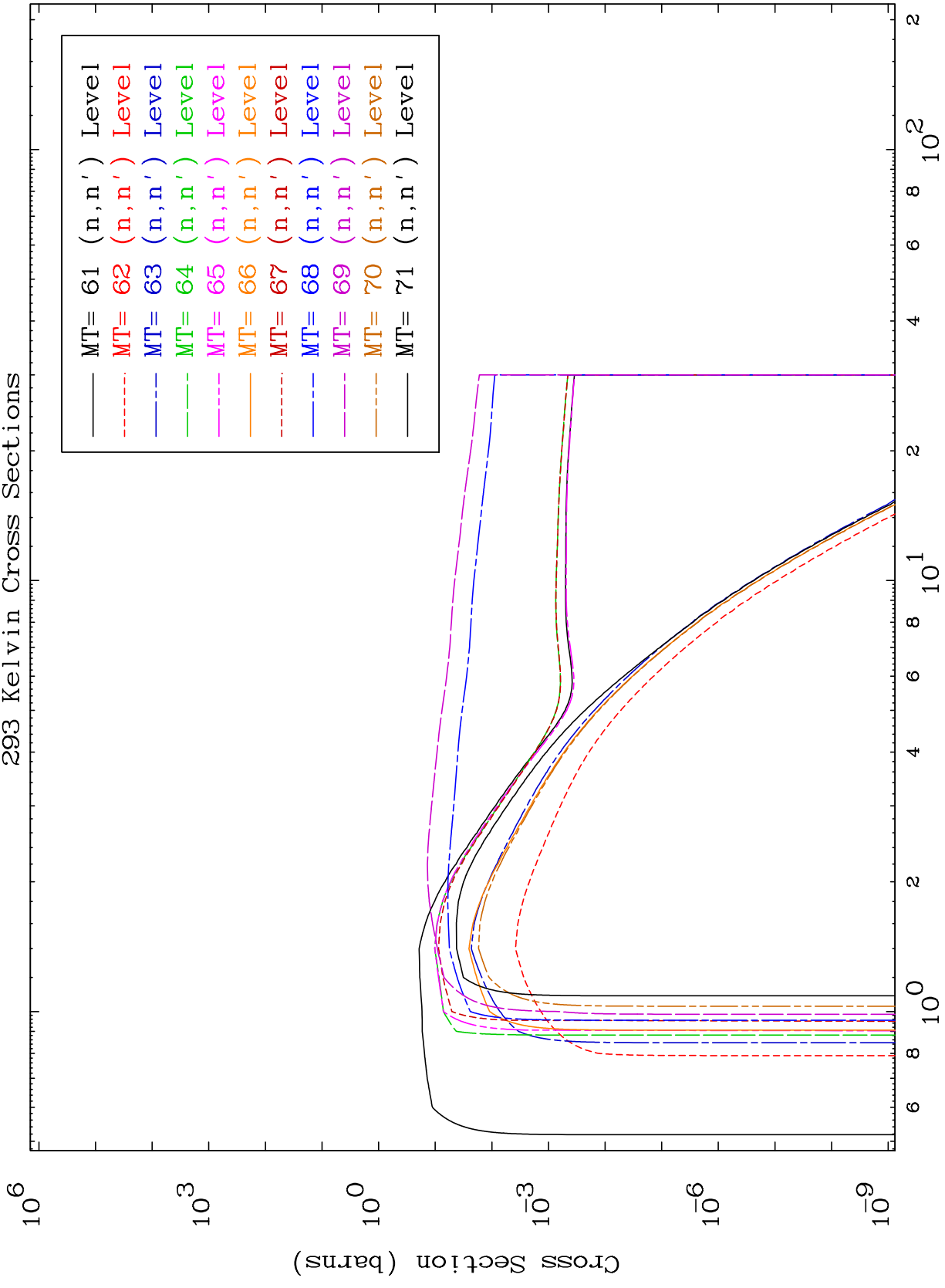
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n,n') Level
293 Kelvin Cross Sections

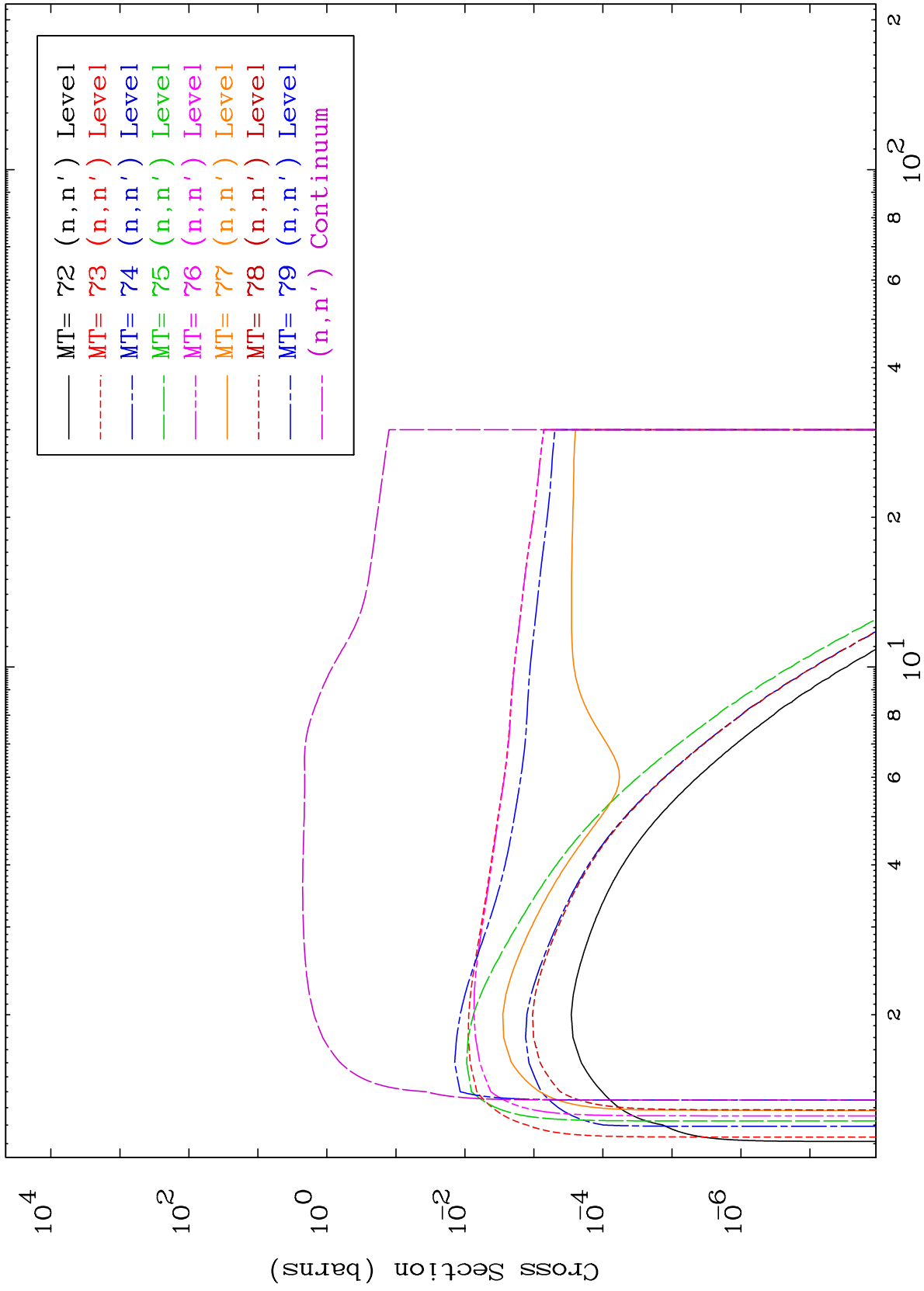
61-Pm-144



8

Incident Energy (MeV)

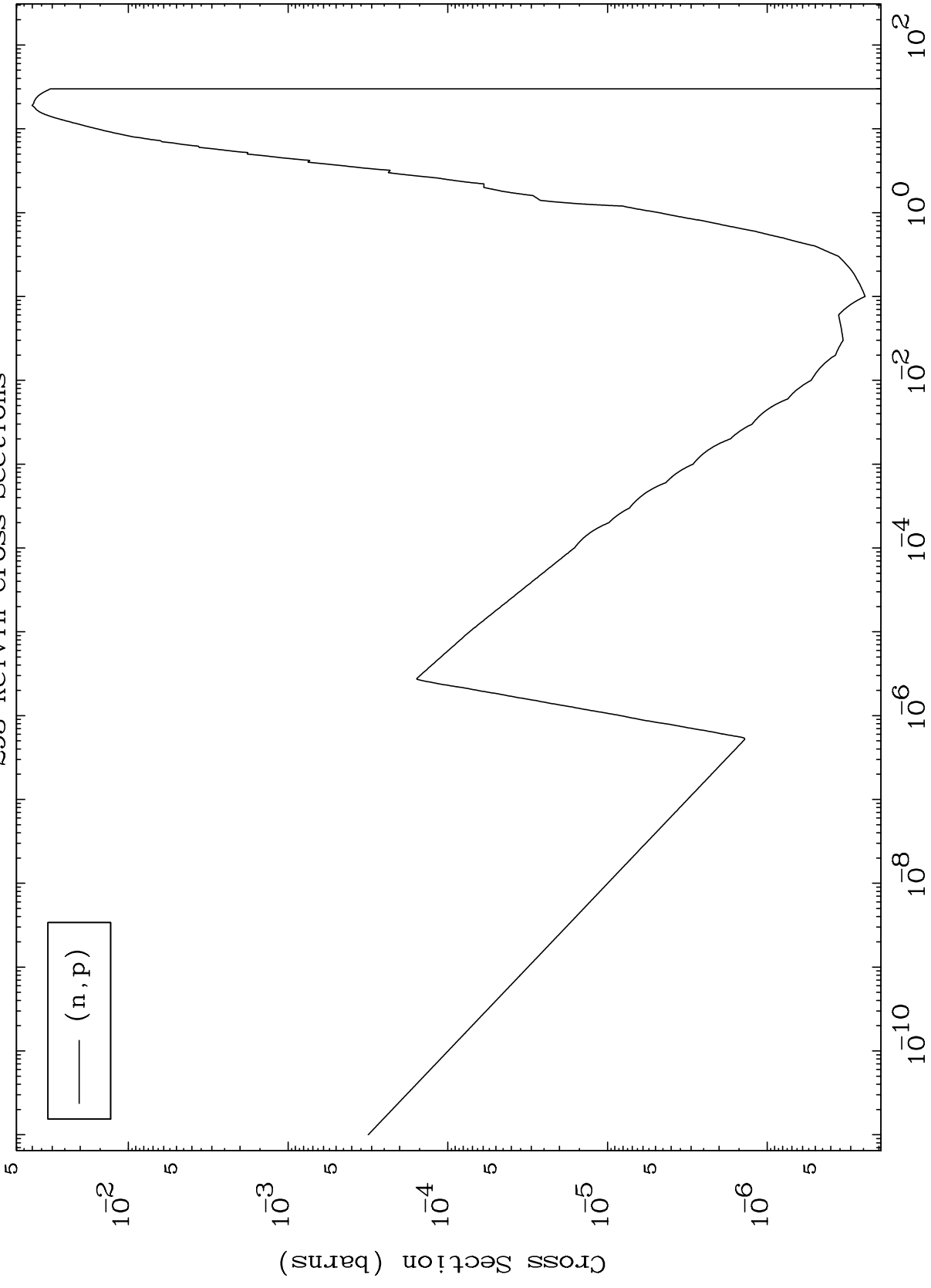
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MAT 6140

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-144



10

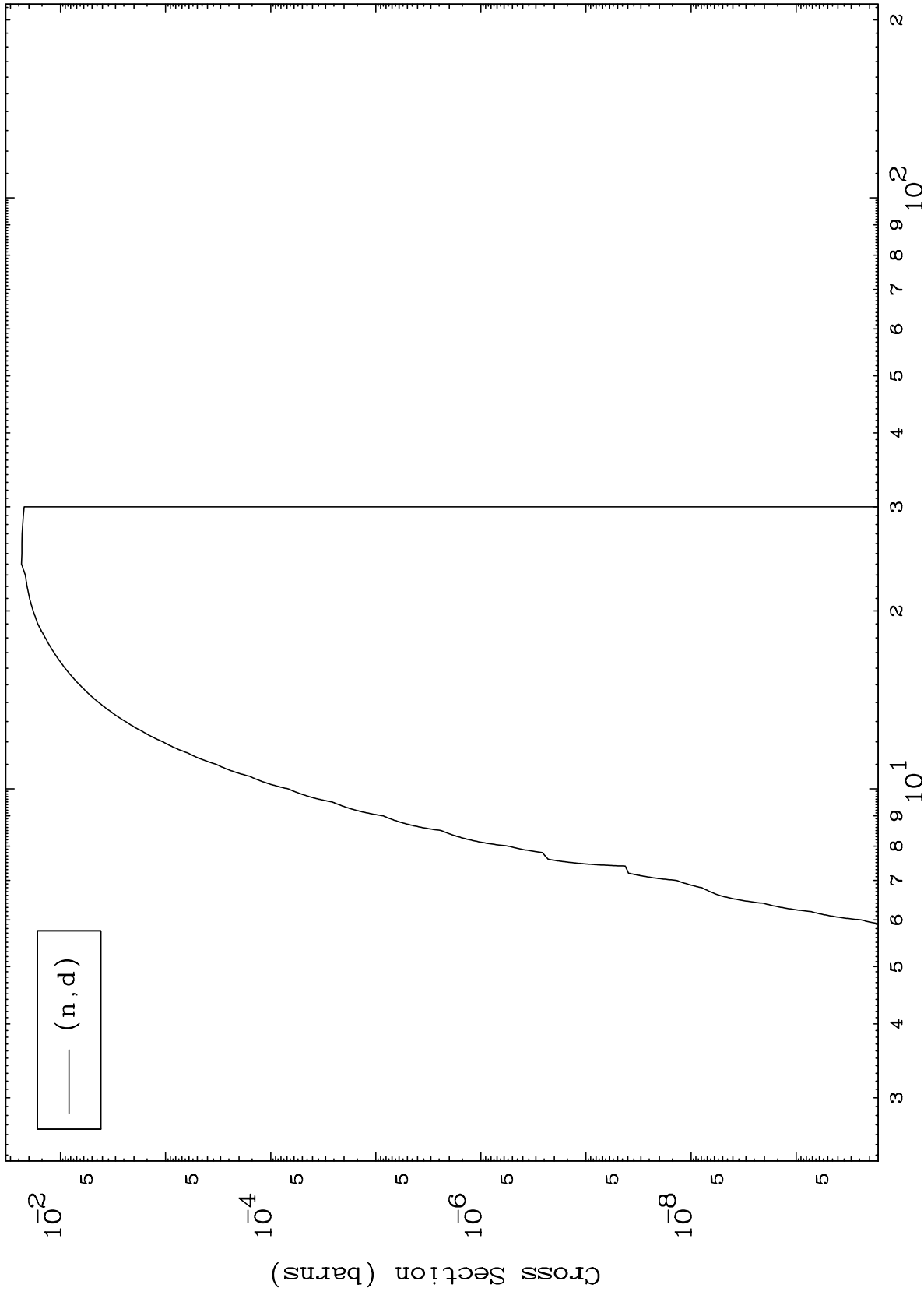
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n,d) Levels
293 Kelvin Cross Sections

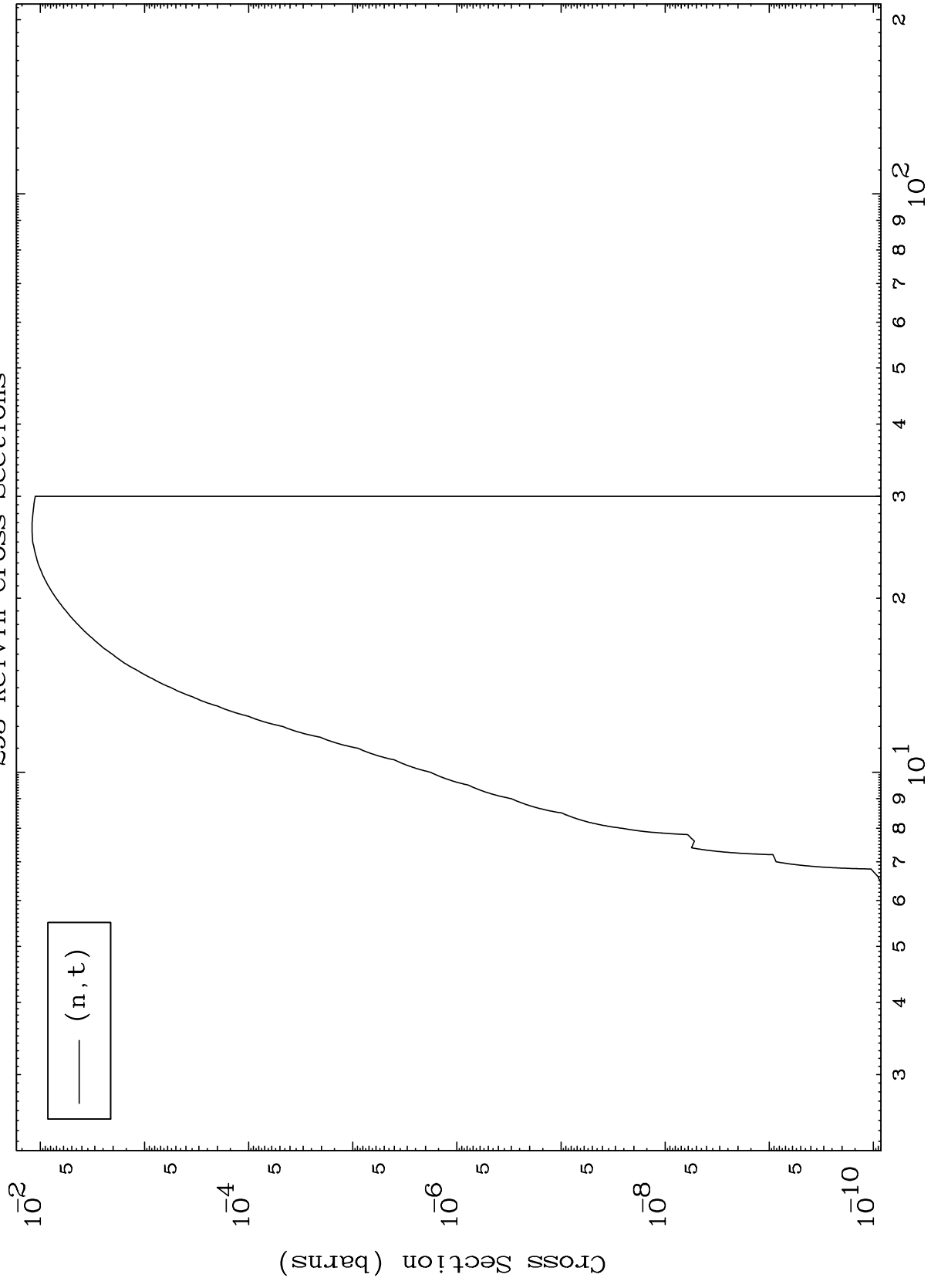
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MAT 6140

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-144



12

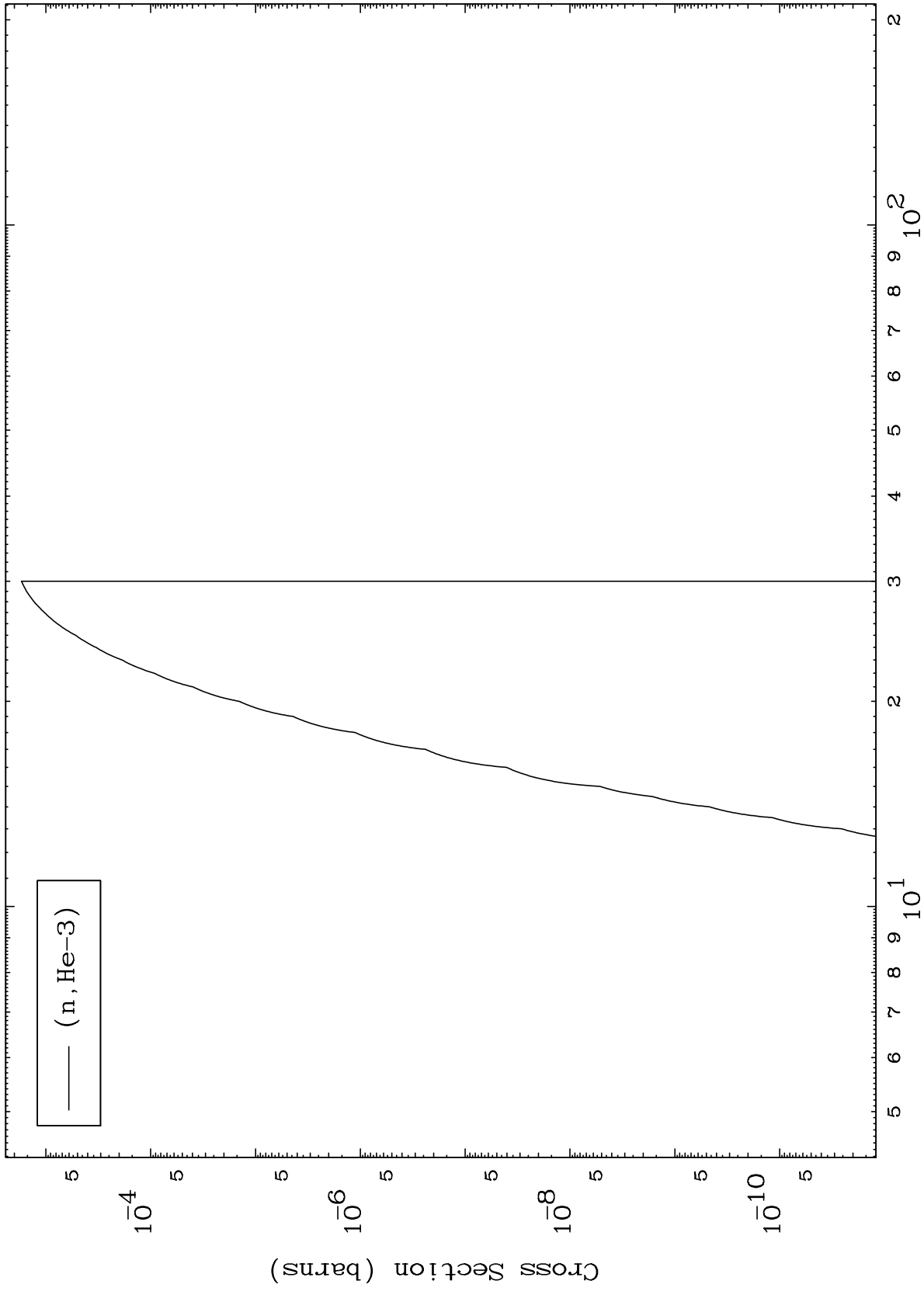
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-144



13

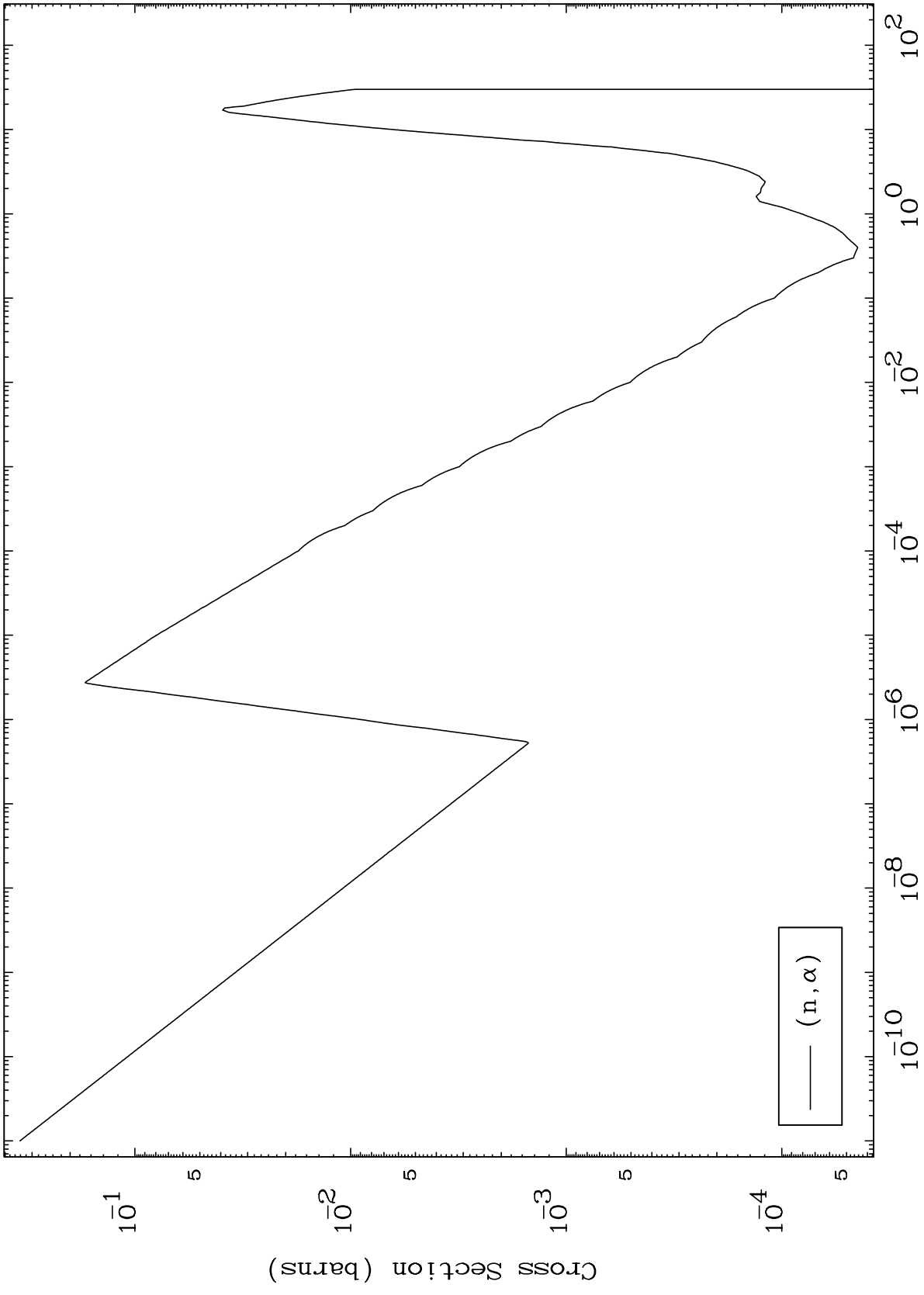
Incident Energy (MeV)

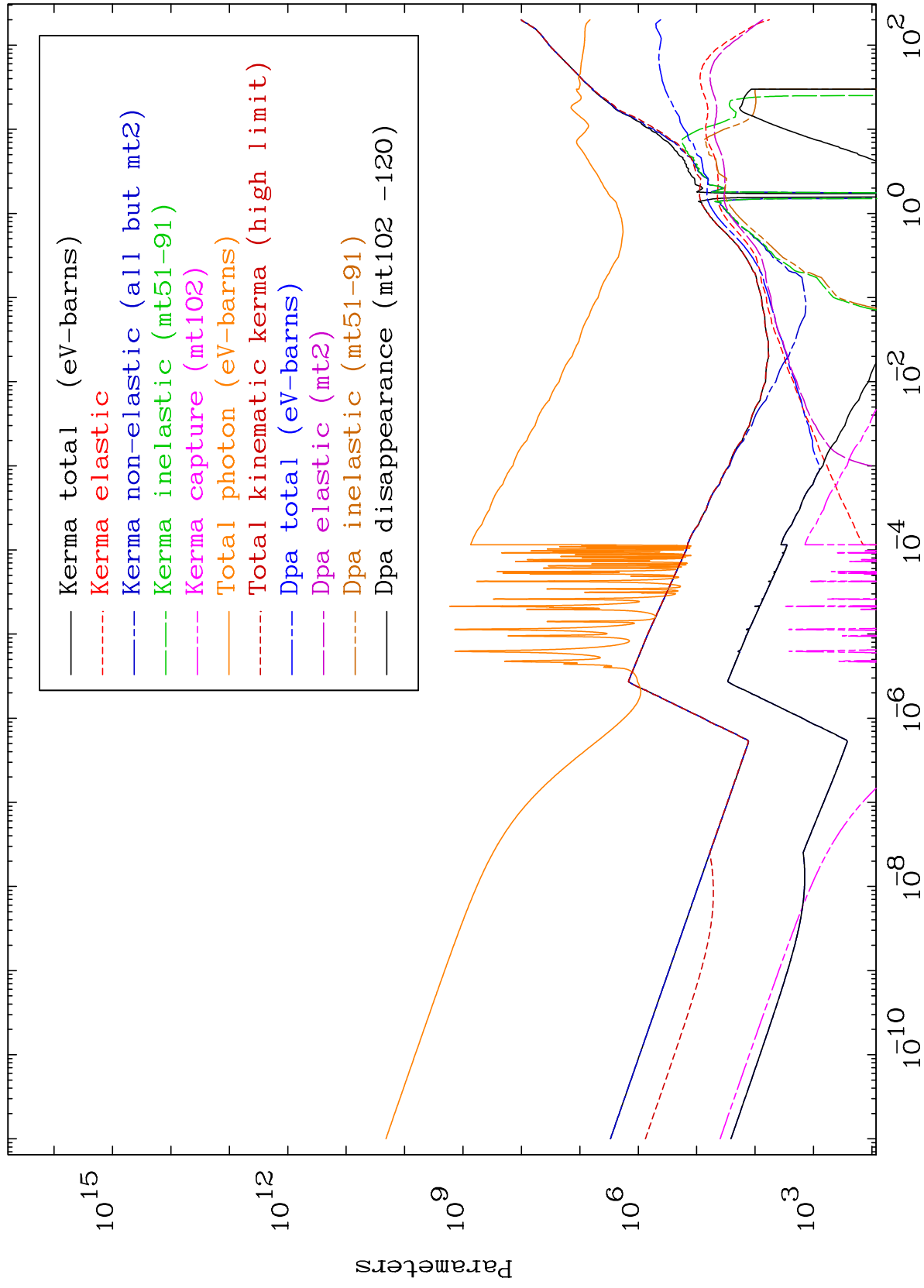
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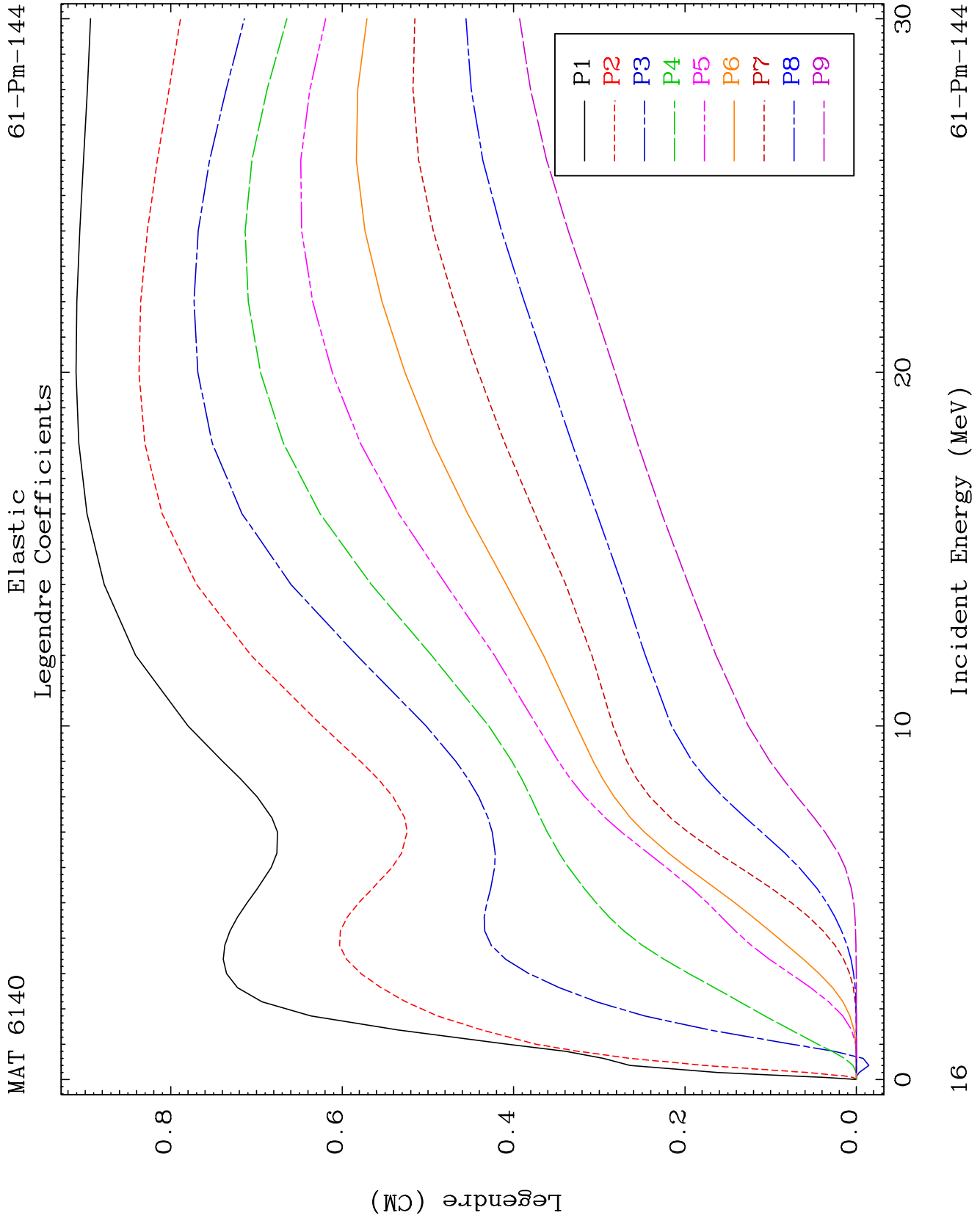
MAT 6140

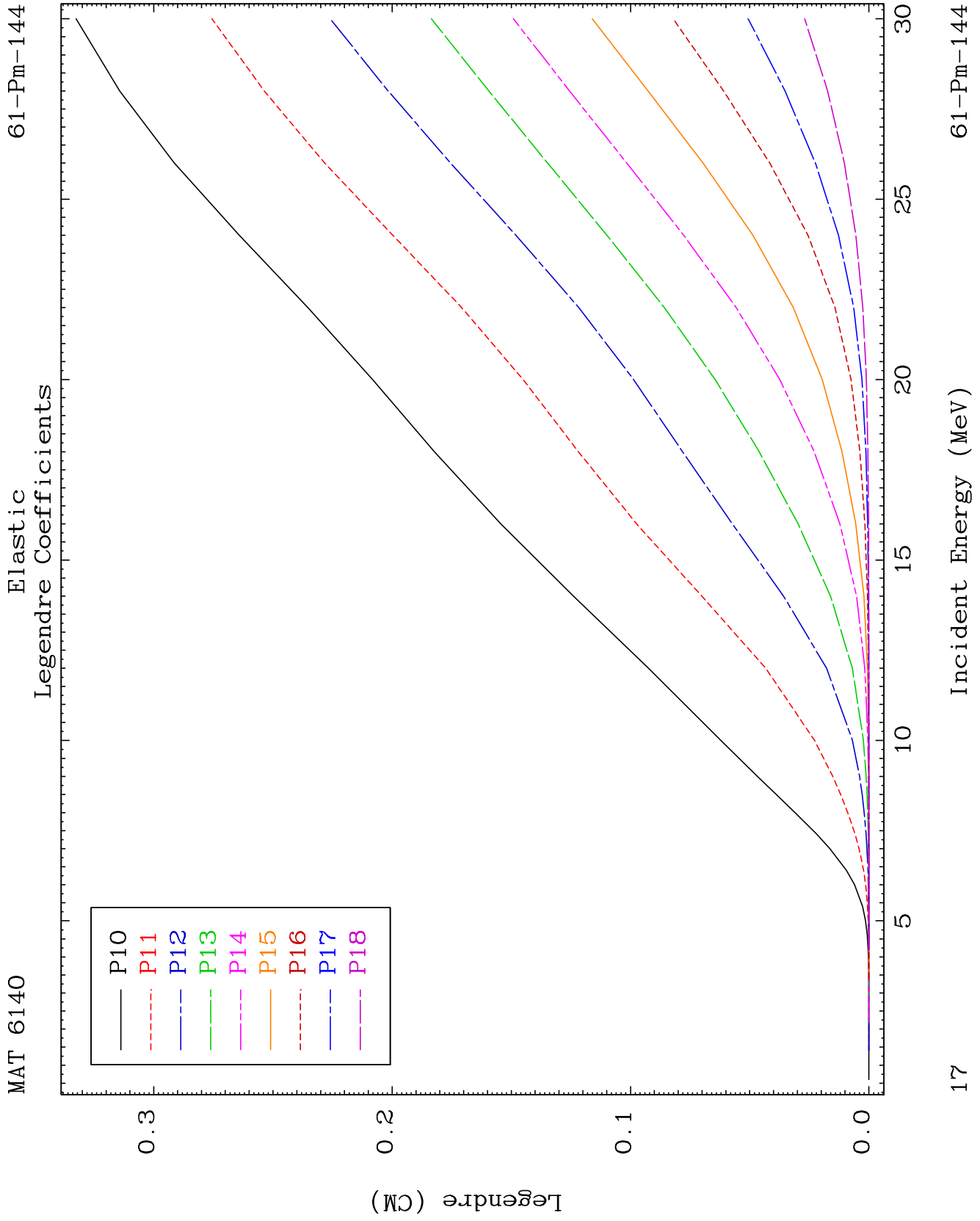
(n,α) Levels
293 Kelvin Cross Sections

61-Pm-144





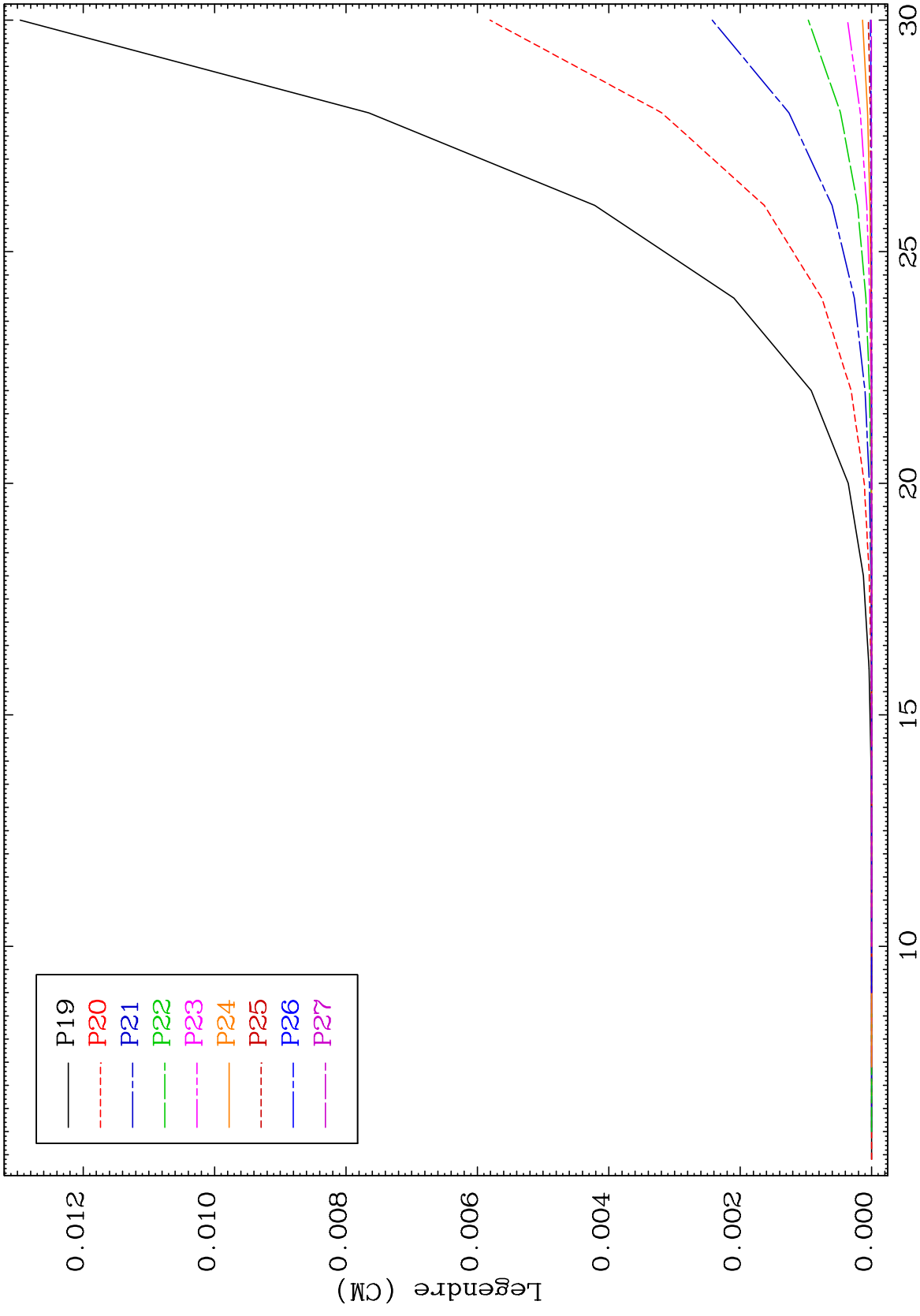




MAT 6140

Elastic Legendre Coefficients

61-Pm-144



18

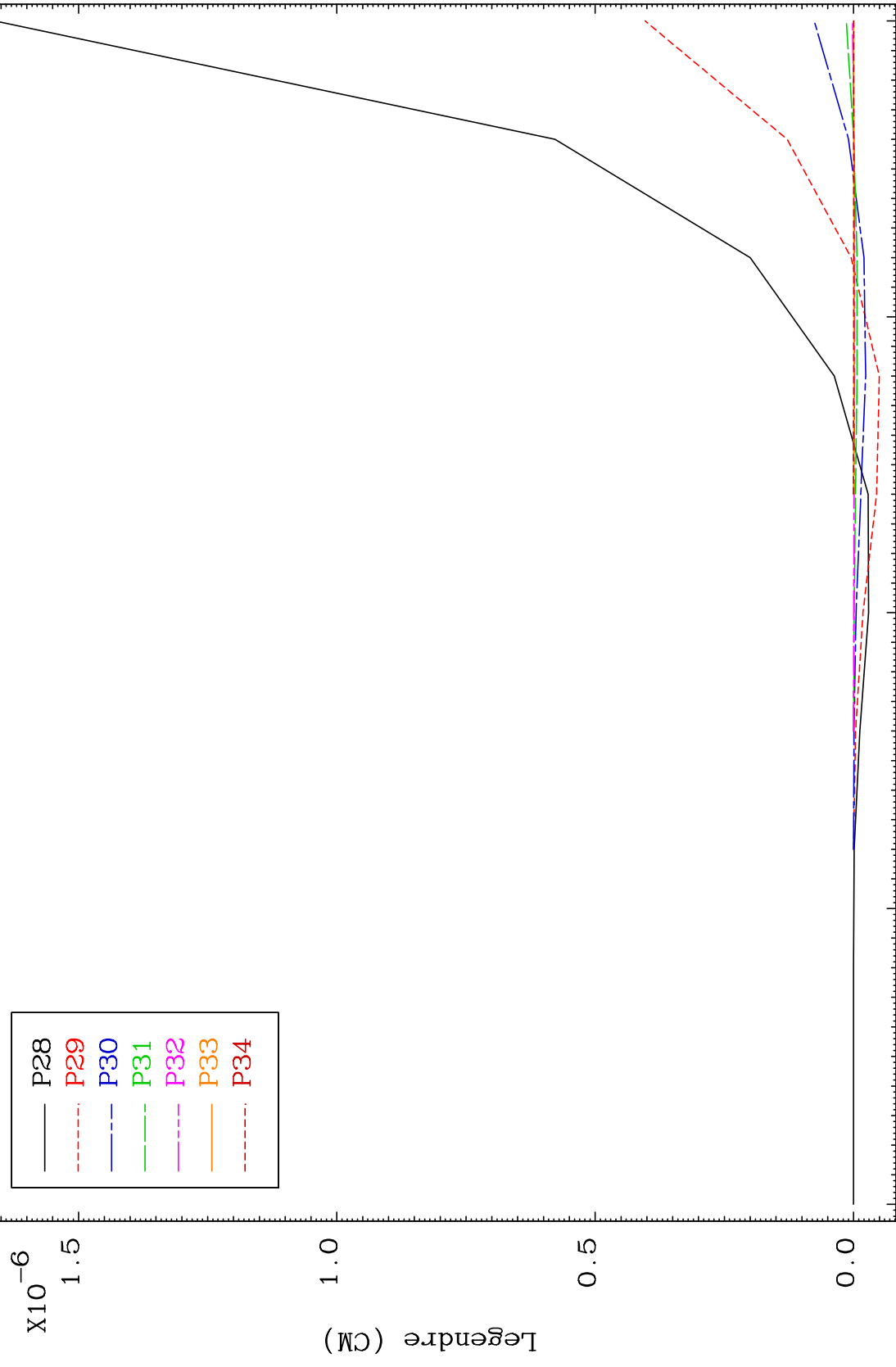
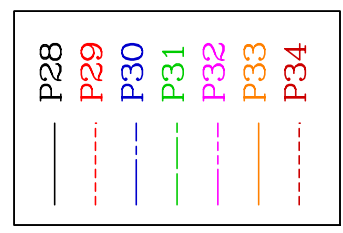
Incident Energy (MeV)

61-Pm-144

MAT 6140

Elastic Legendre Coefficients

61-Pm-144



19

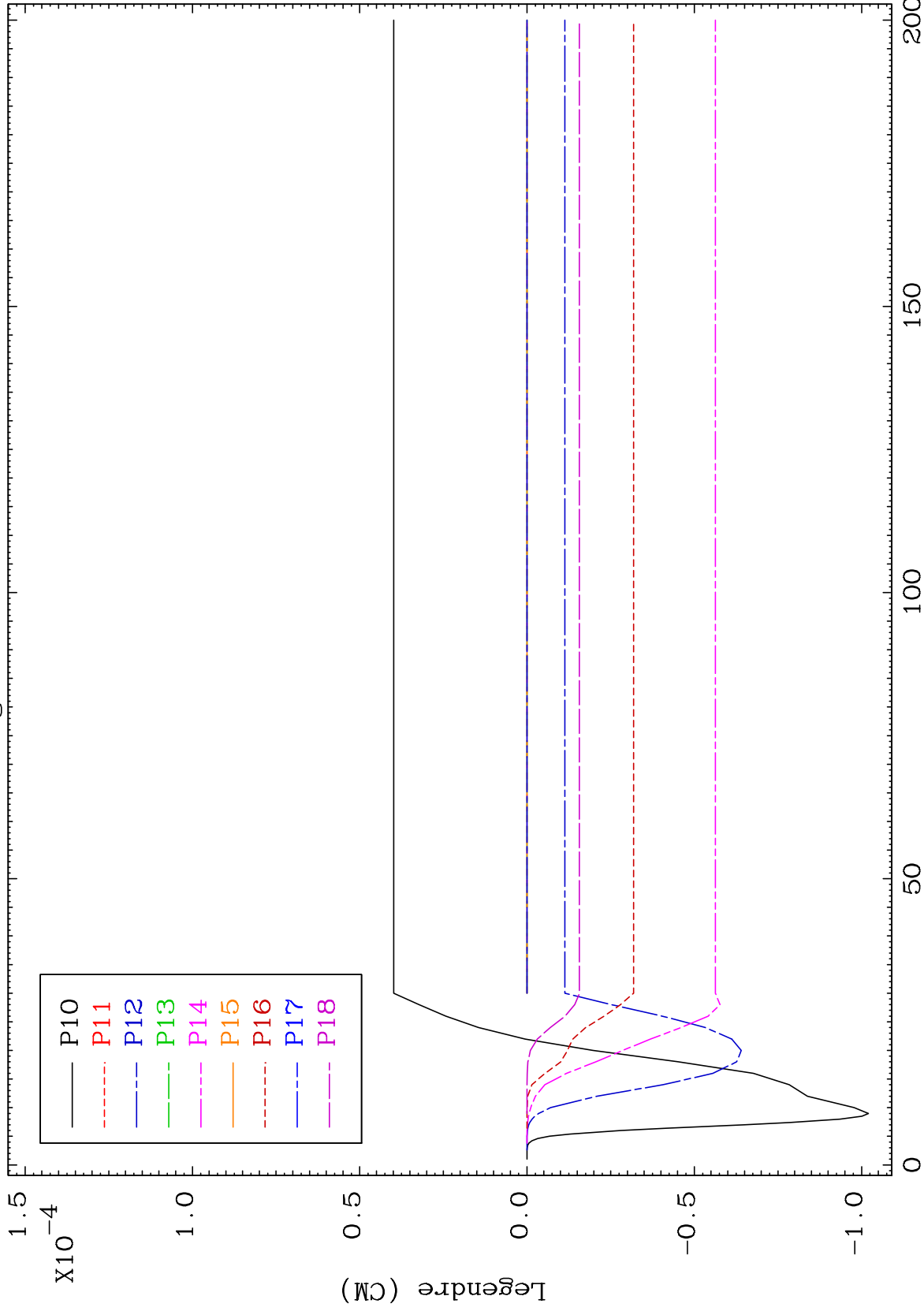
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



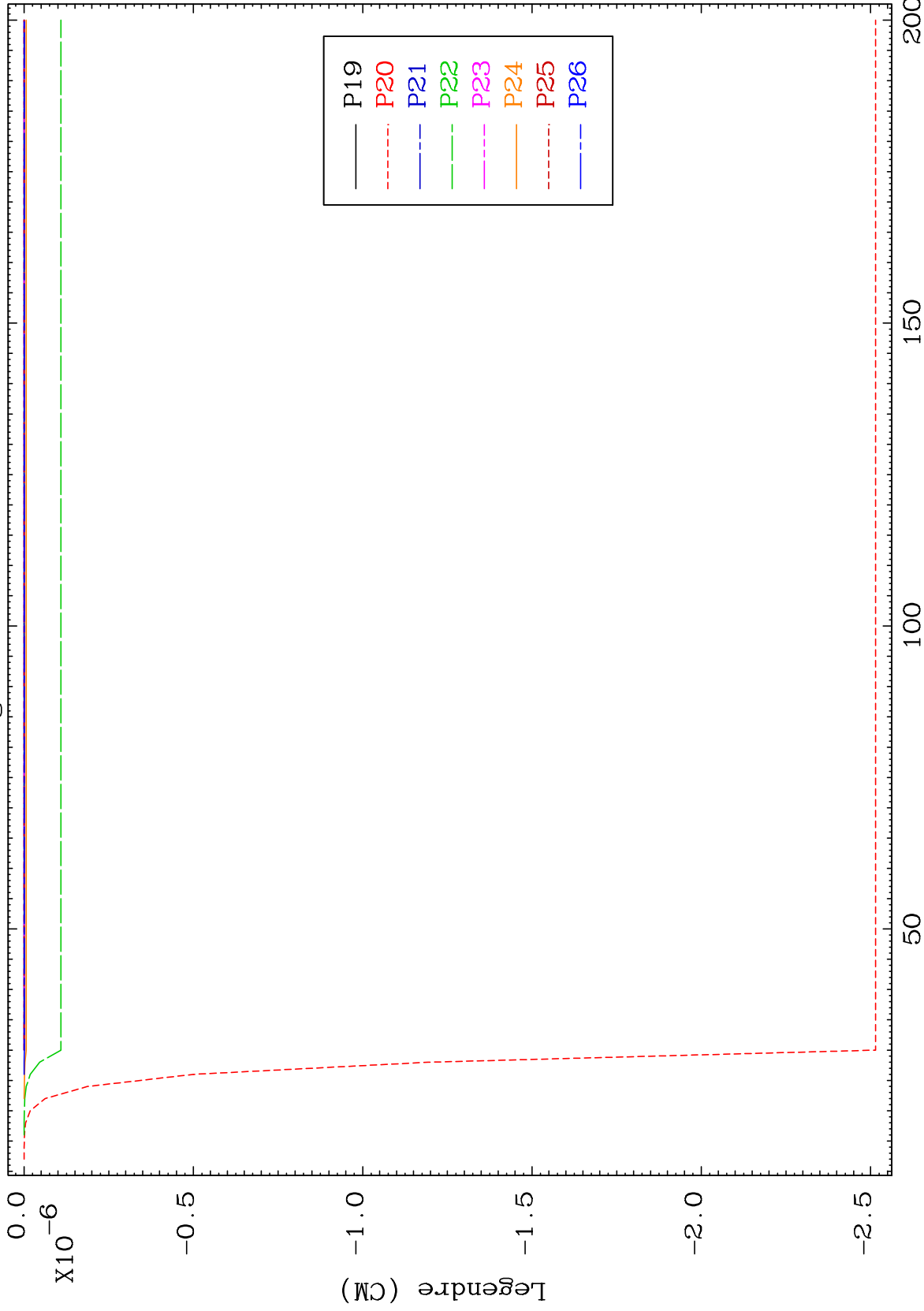
21

Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 51 (n,n') Level 61-Pm-144

Legendre Coefficients



61-Pm-144

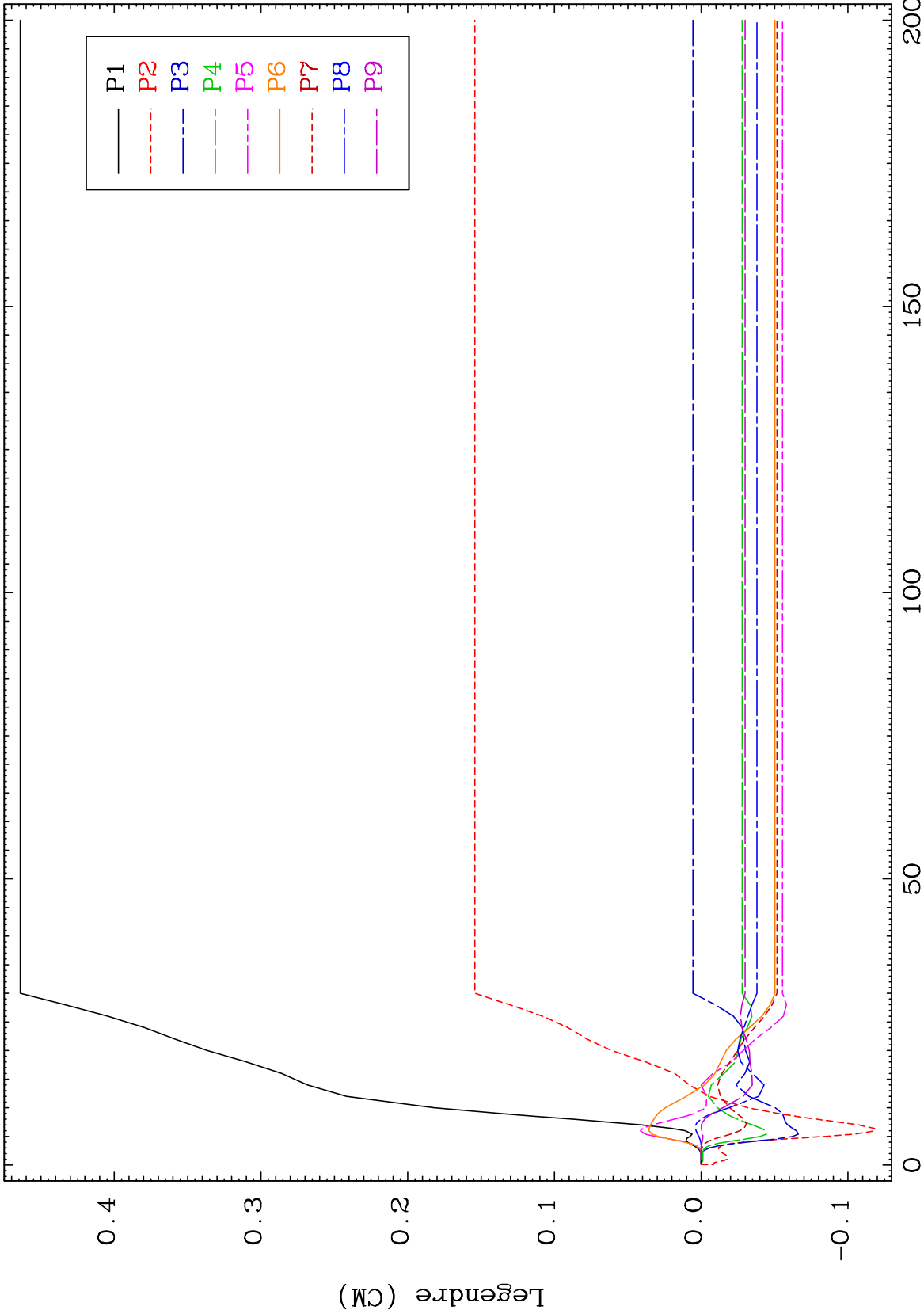
Incident Energy (MeV)

22

MAT 6140

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

61-Pm-144



23

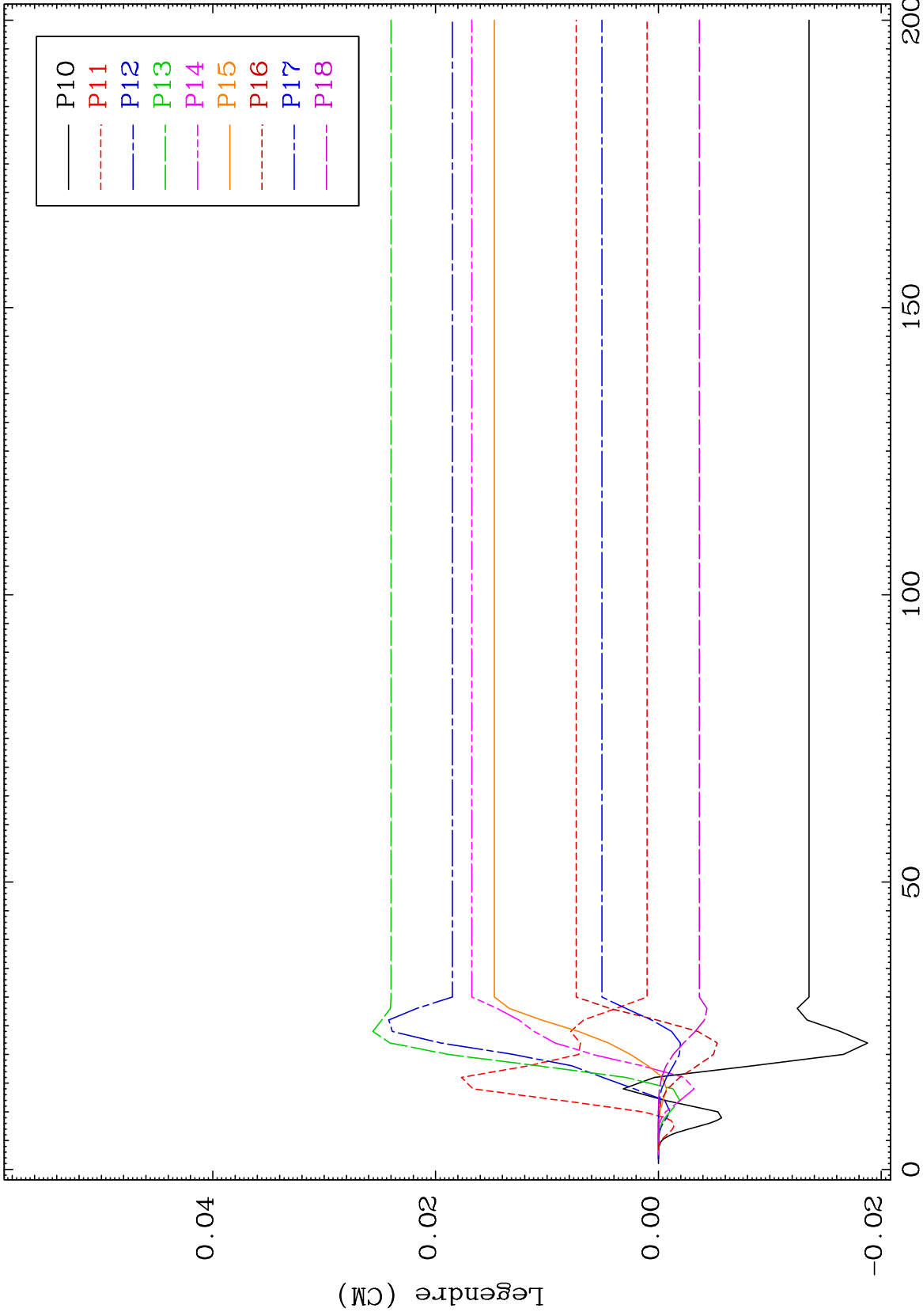
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



24

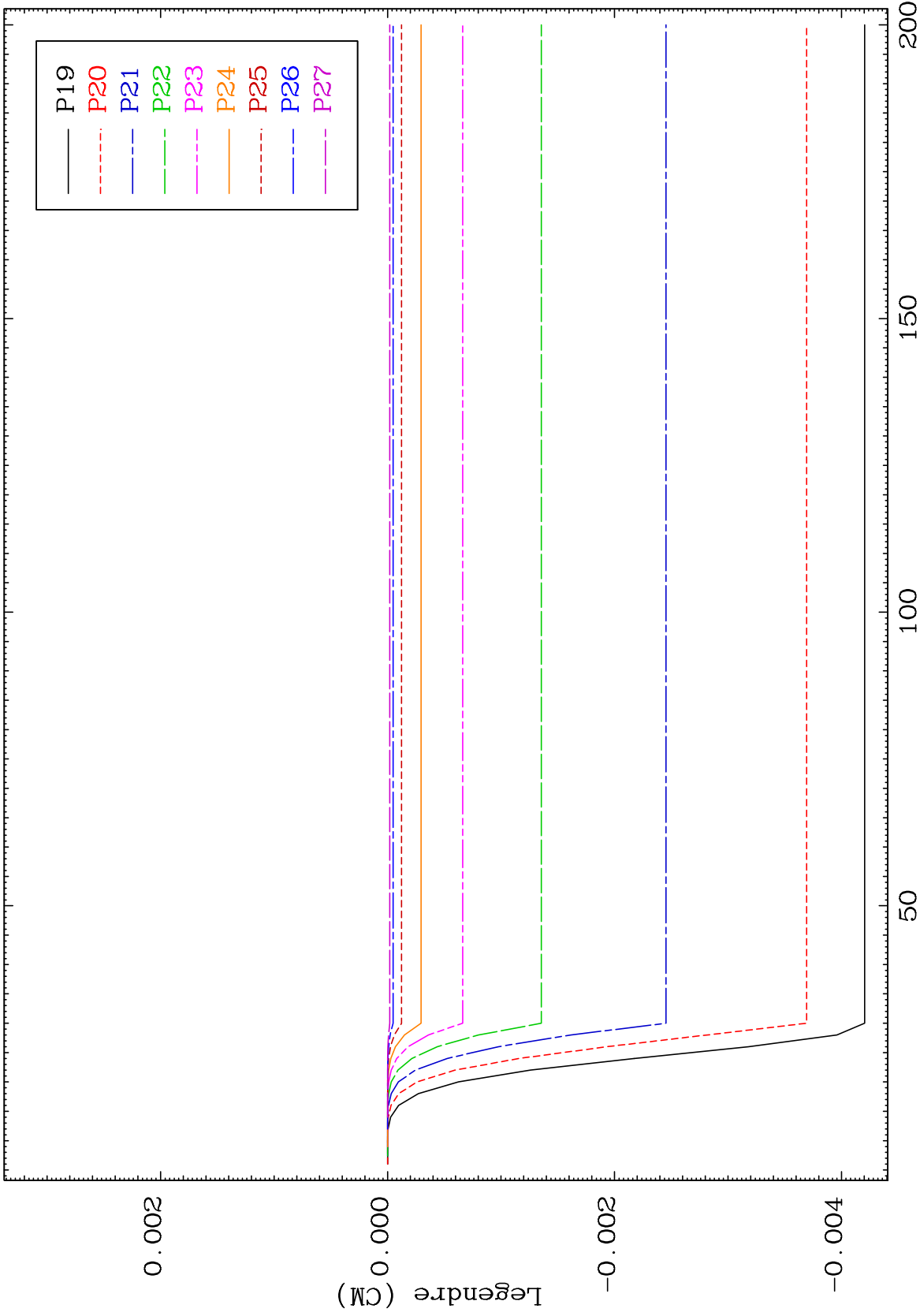
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



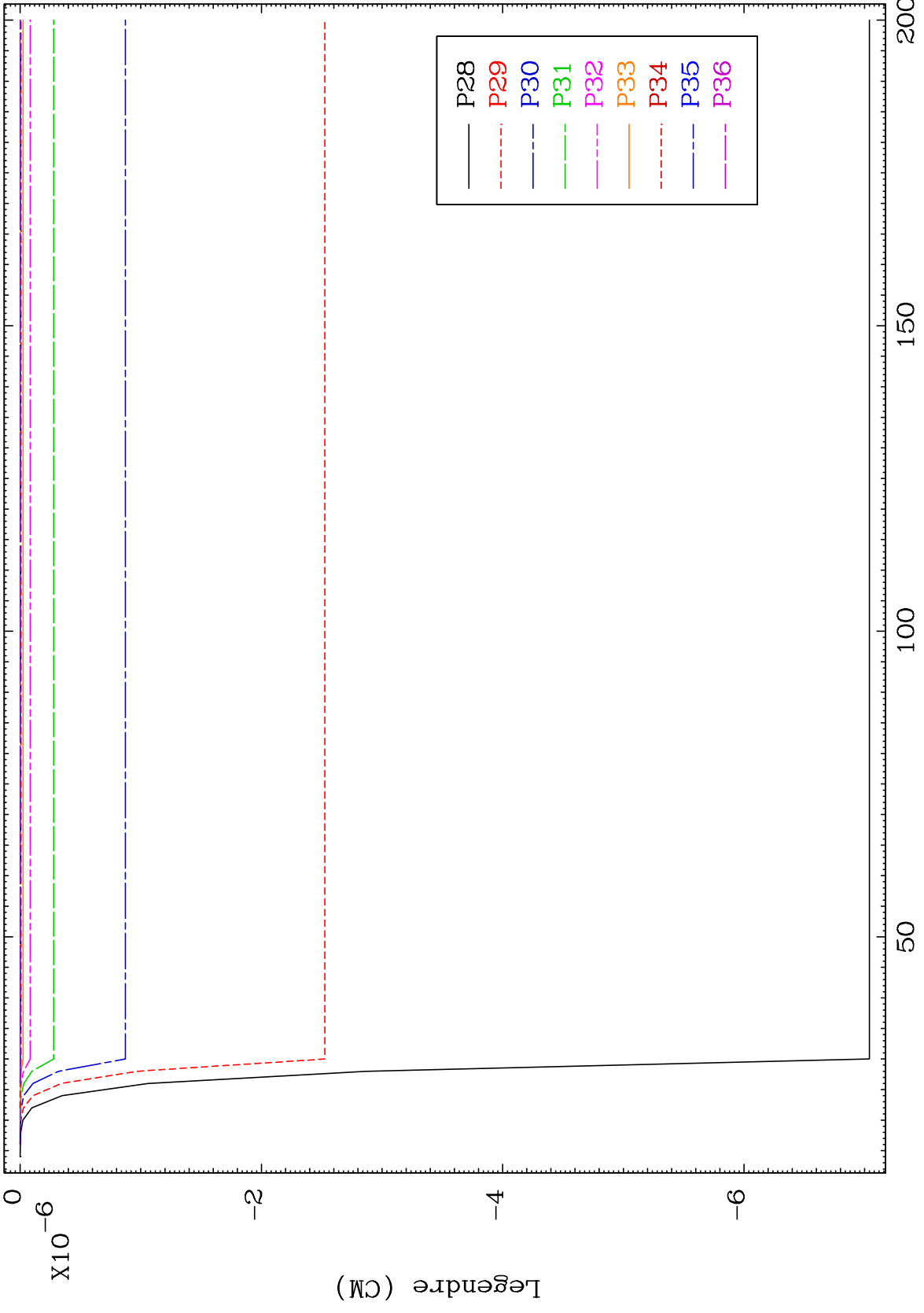
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Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 52 (n,n') Level 61-Pm-144

Legendre Coefficients

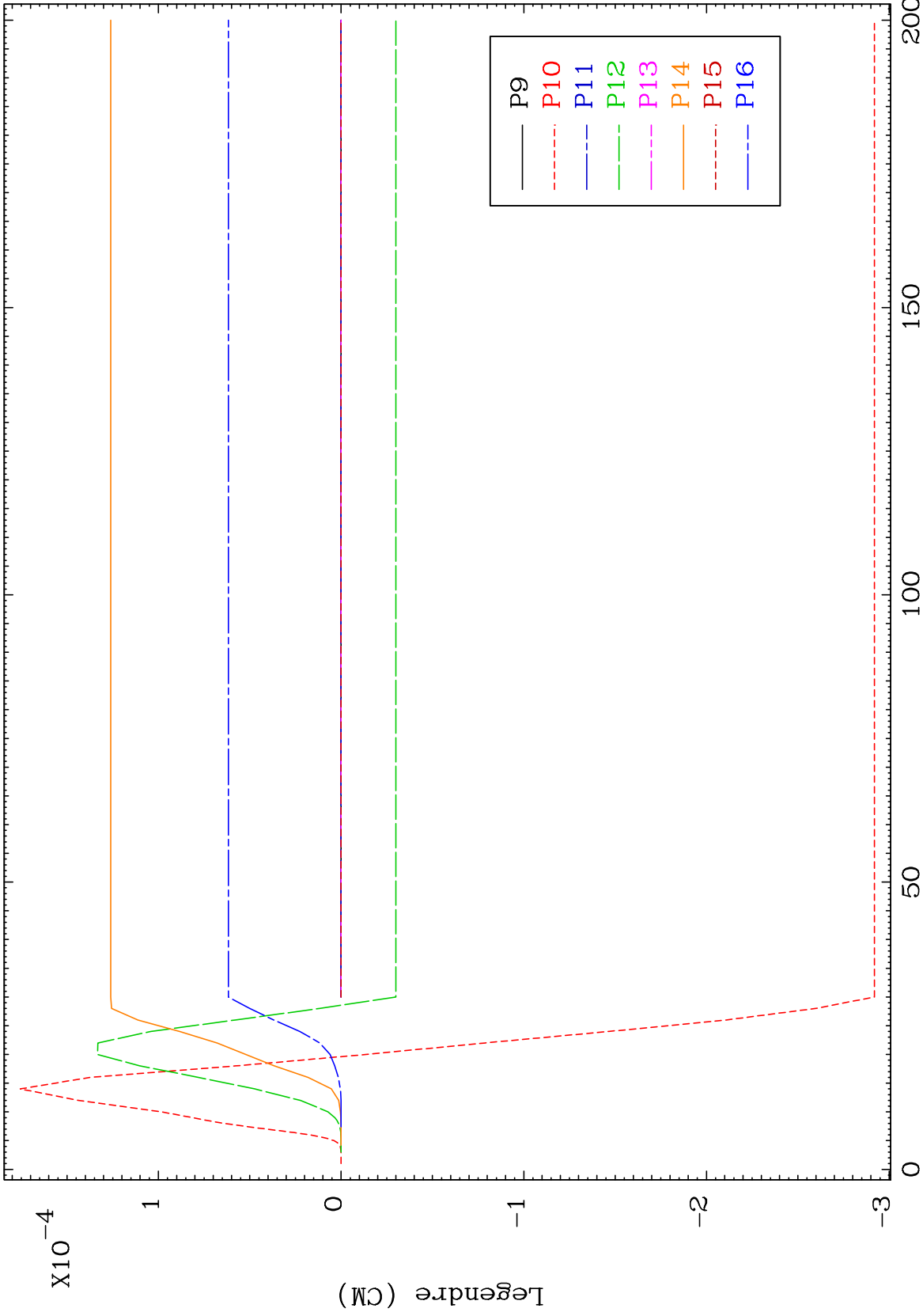


26 Incident Energy (MeV) 61-Pm-144

MAT 6140

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

61-Pm-144



28

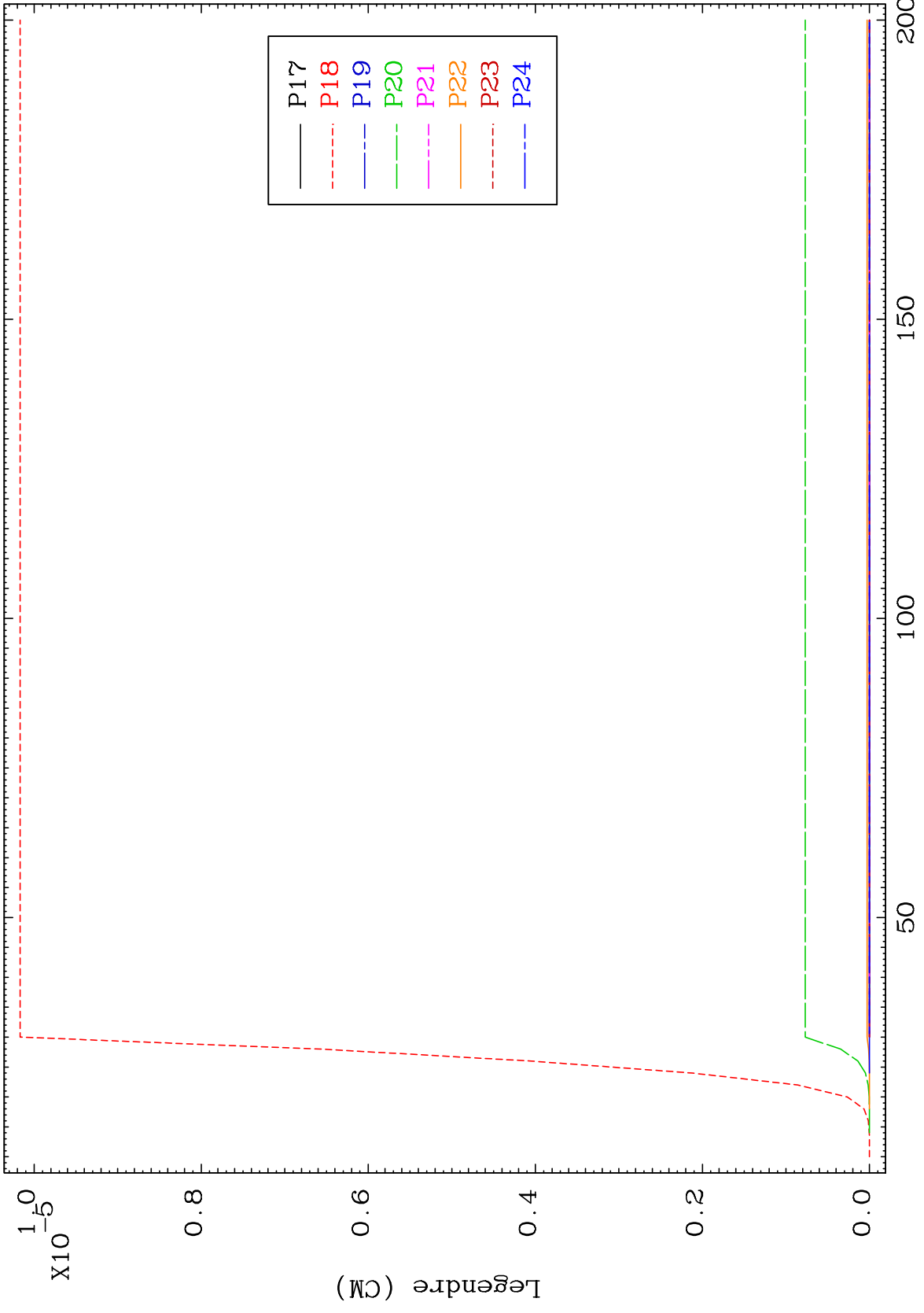
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



61-Pm-144

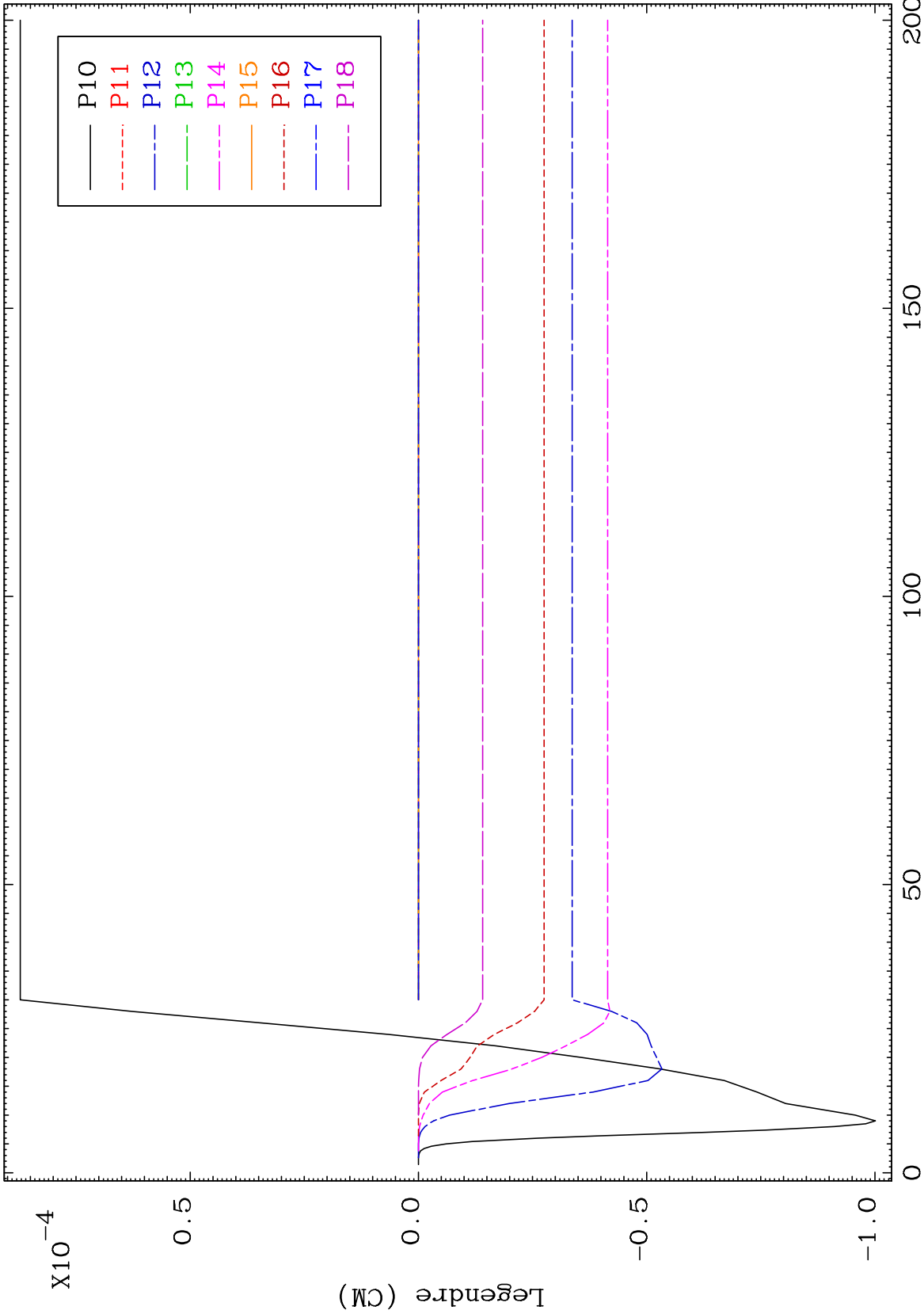
Incident Energy (MeV)

29

MAT 6140

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

61-Pm-144



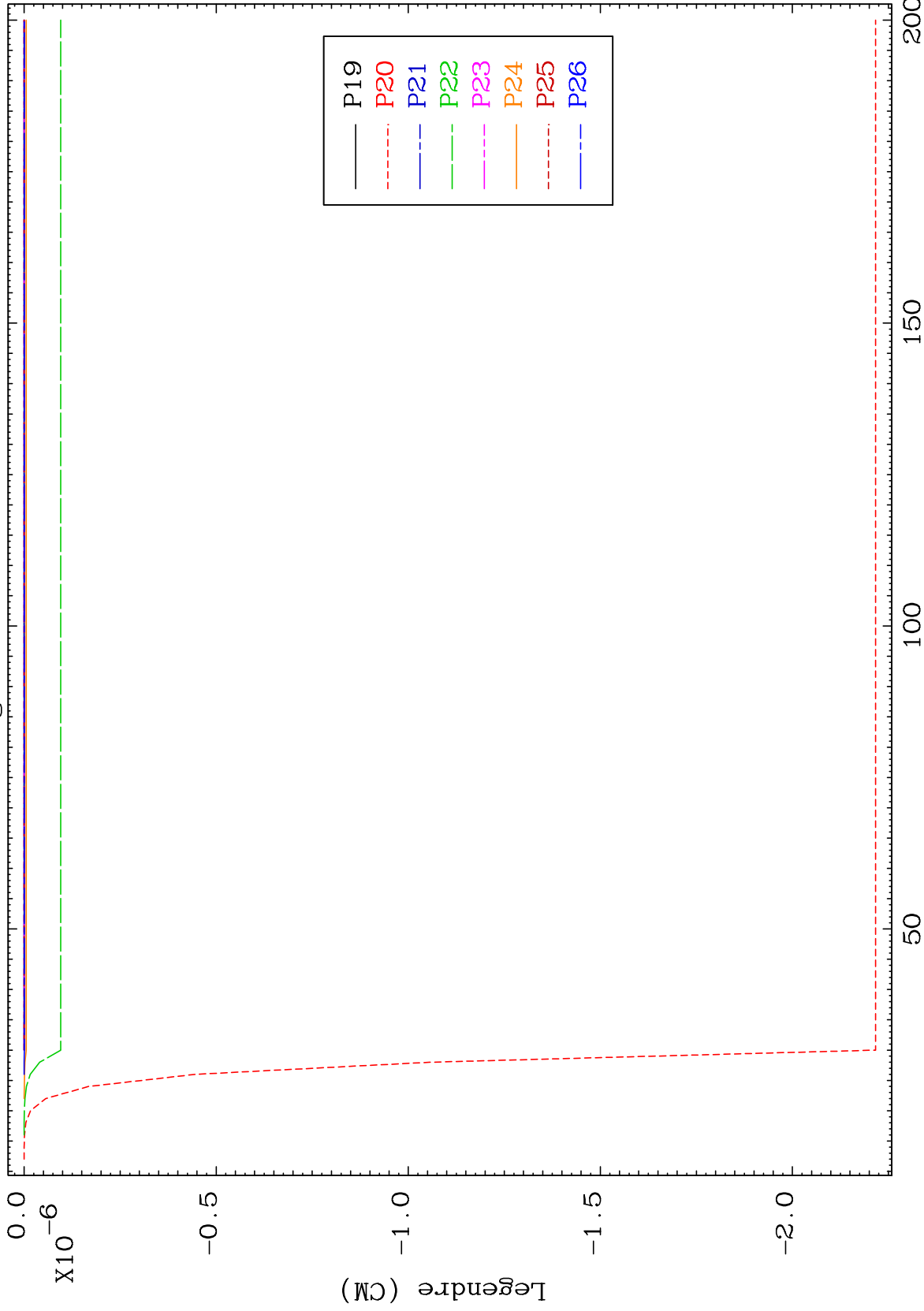
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61-Pm-144

MAT 6140 MT= 54 (n,n') Level

61-Pm-144

Legendre Coefficients



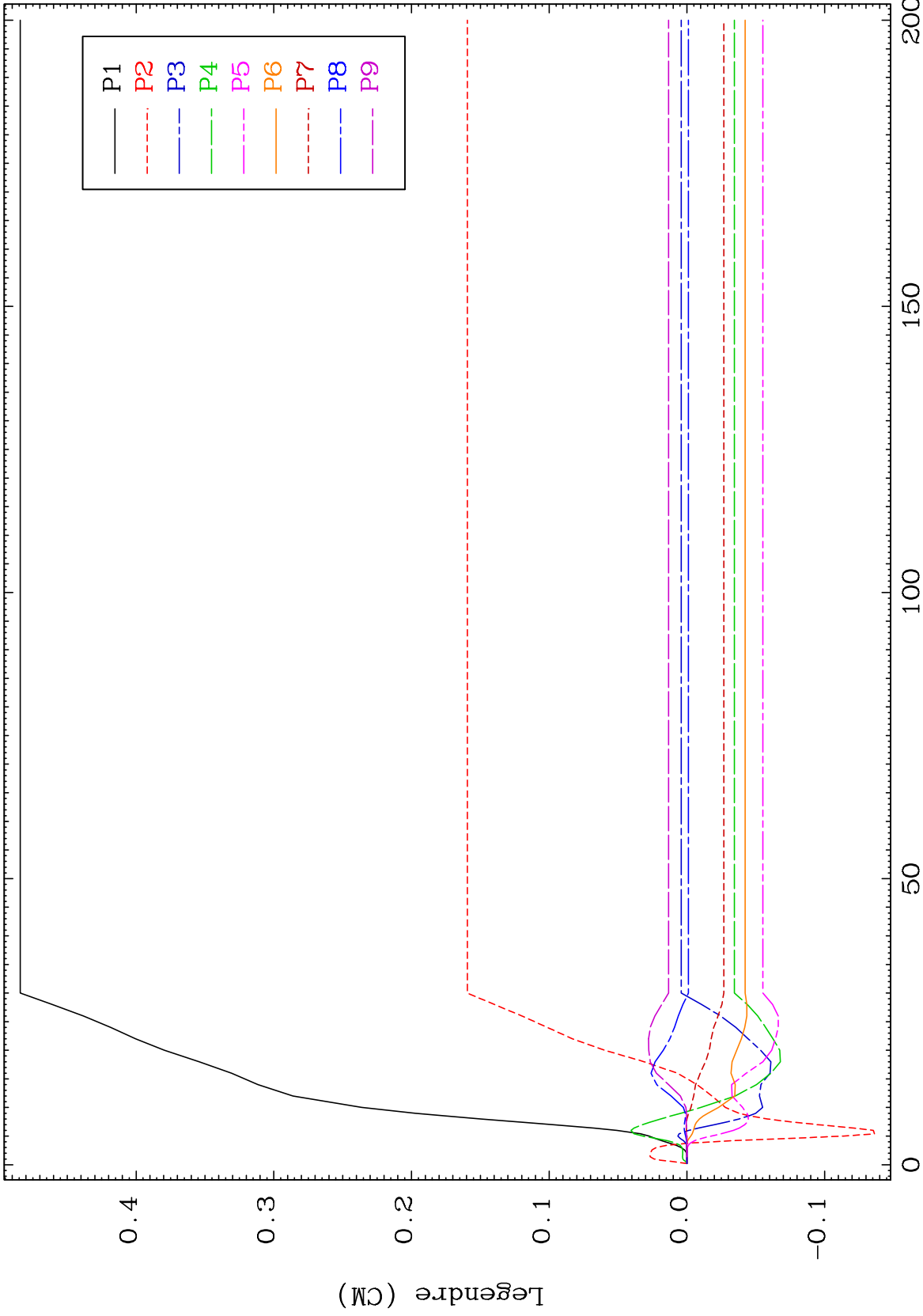
61-Pm-144

Incident Energy (MeV)

MAT 6140

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

61-Pm-144



33

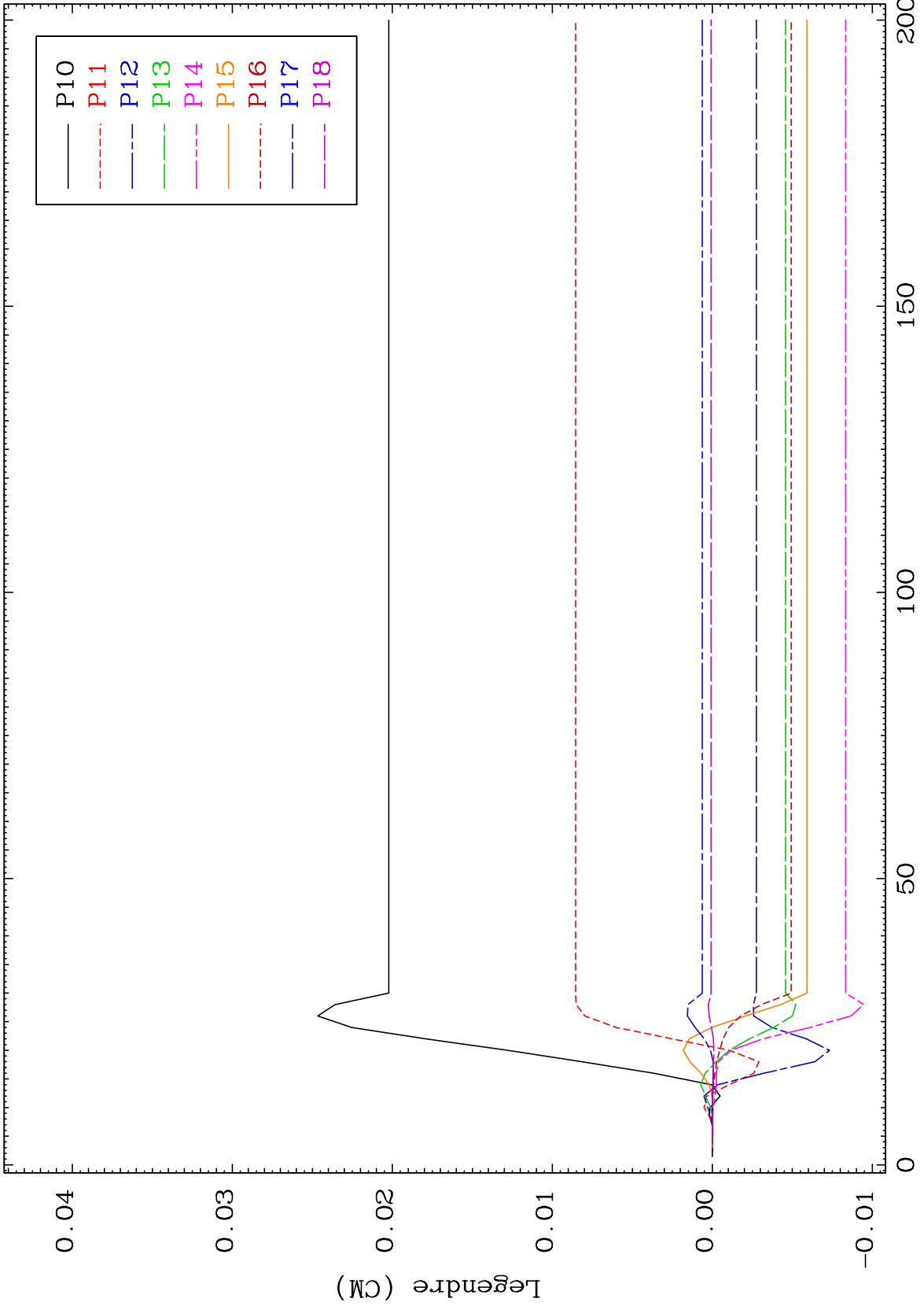
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



34

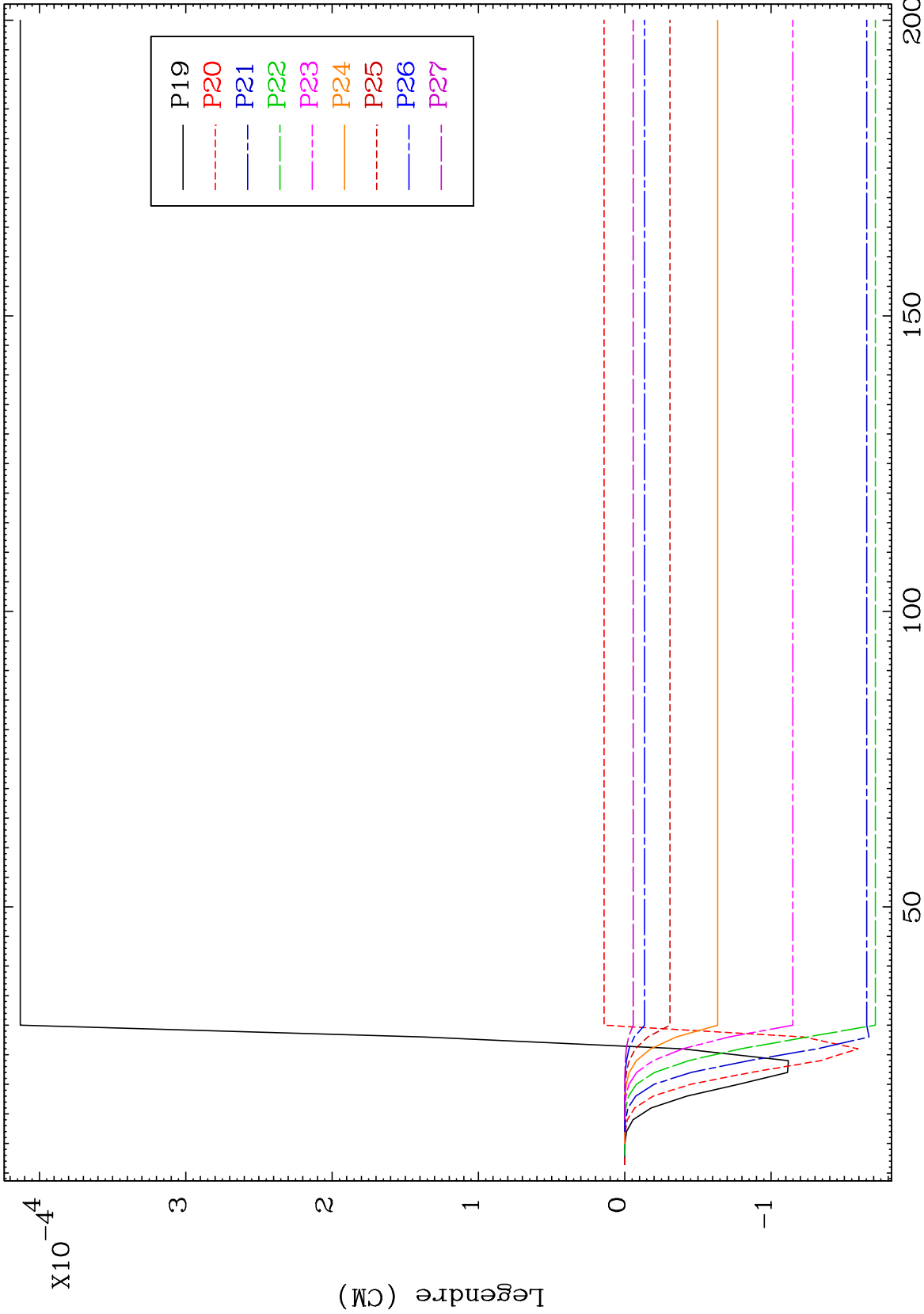
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



35

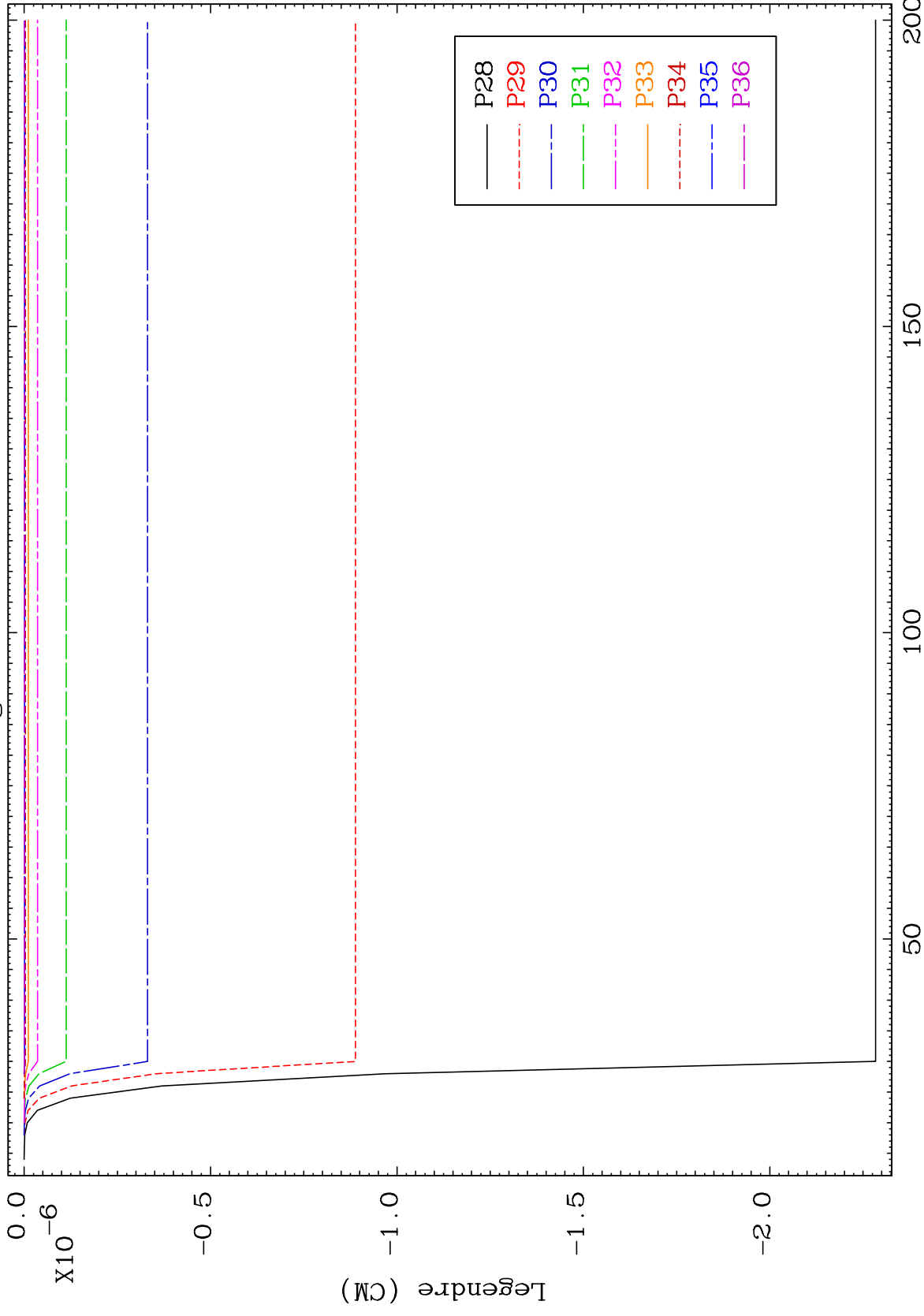
Incident Energy (MeV)

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MAT 6140

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

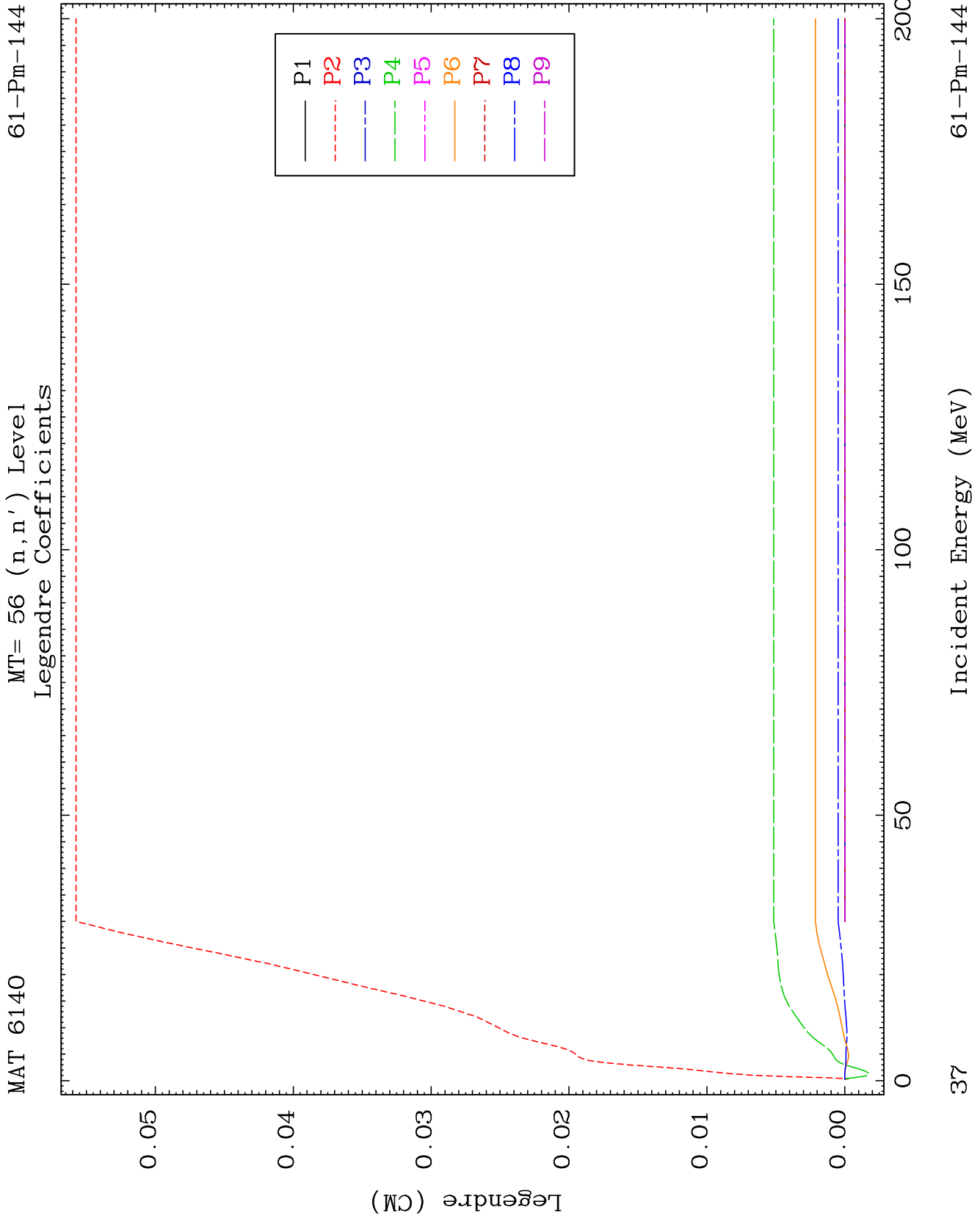
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61-Pm-144

Incident Energy (MeV)

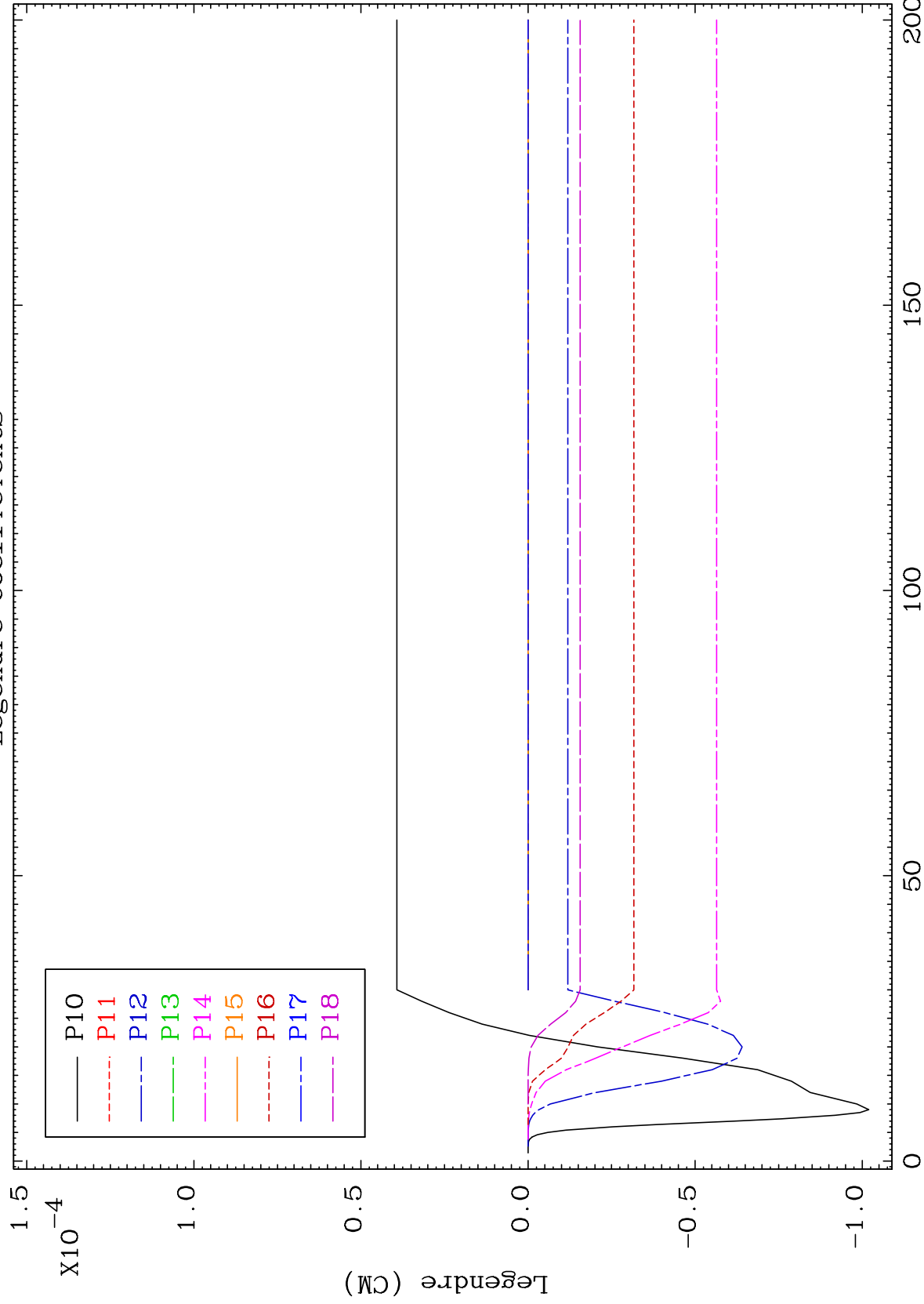
36



MAT 6140

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

61-Pm-144



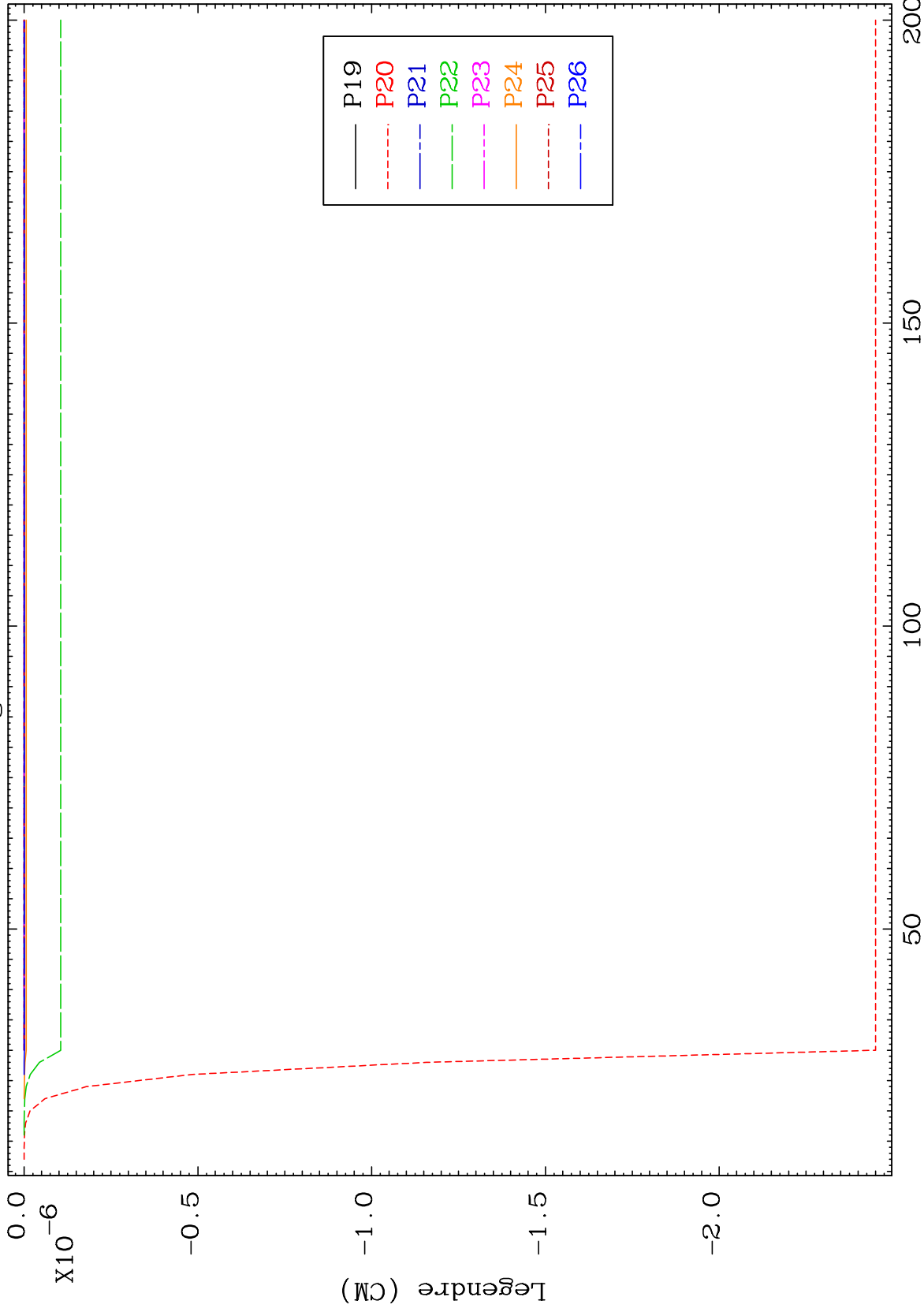
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61-Pm-144

MAT 6140

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

61-Pm-144

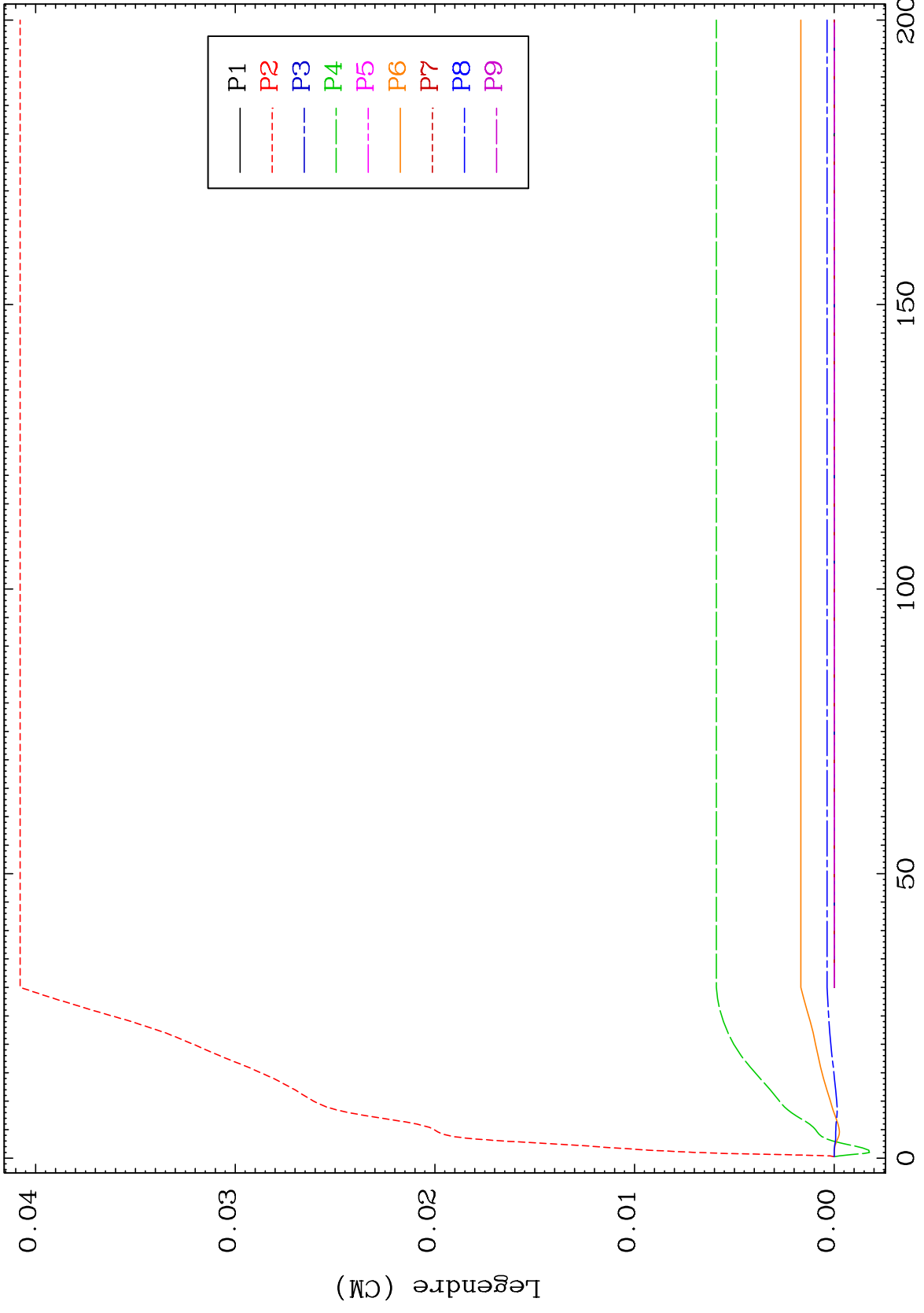


39

Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 57 (n,n') Level Legendre Coefficients 61-Pm-144

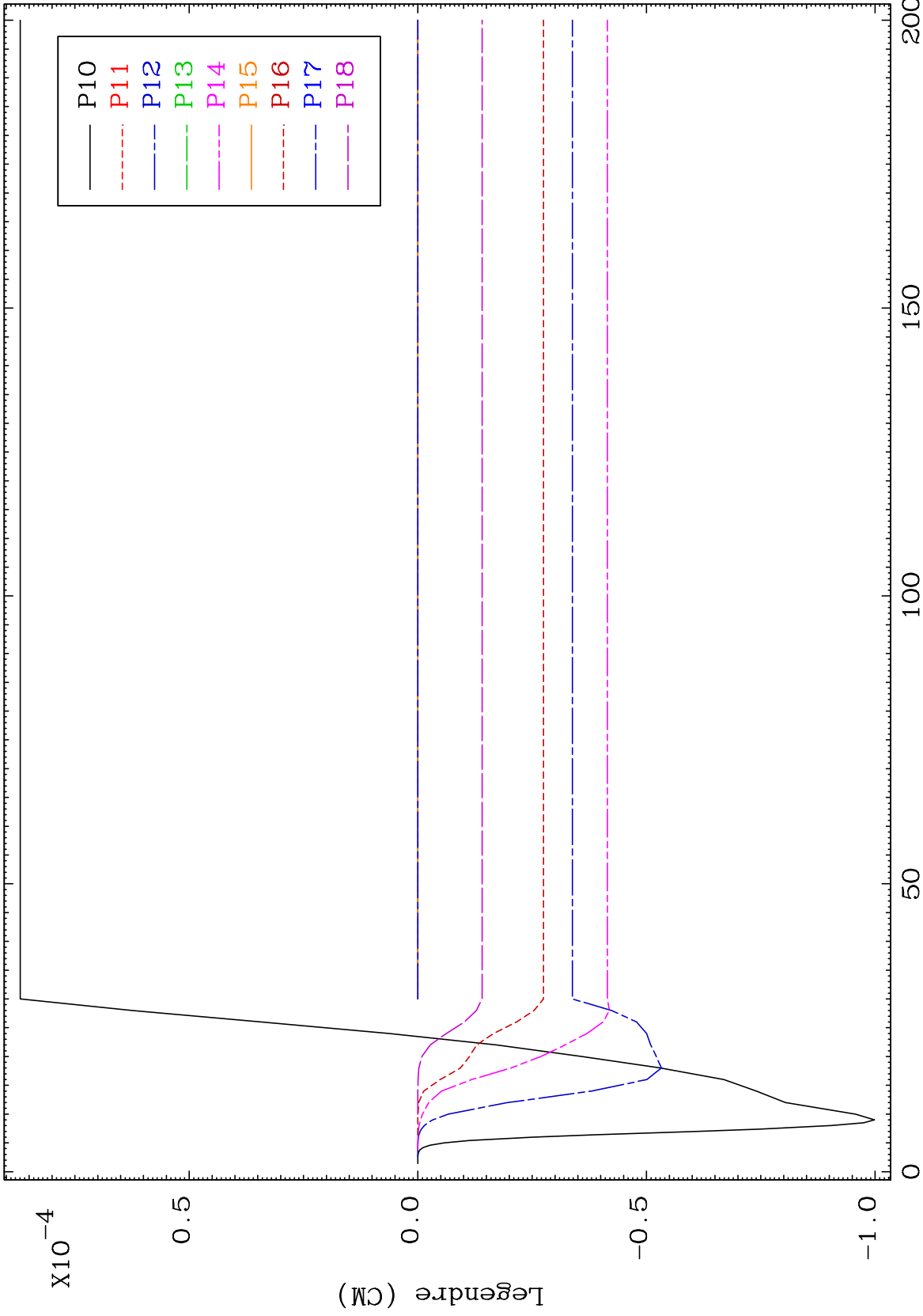


Incident Energy (MeV) 61-Pm-144

MAT 6140

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

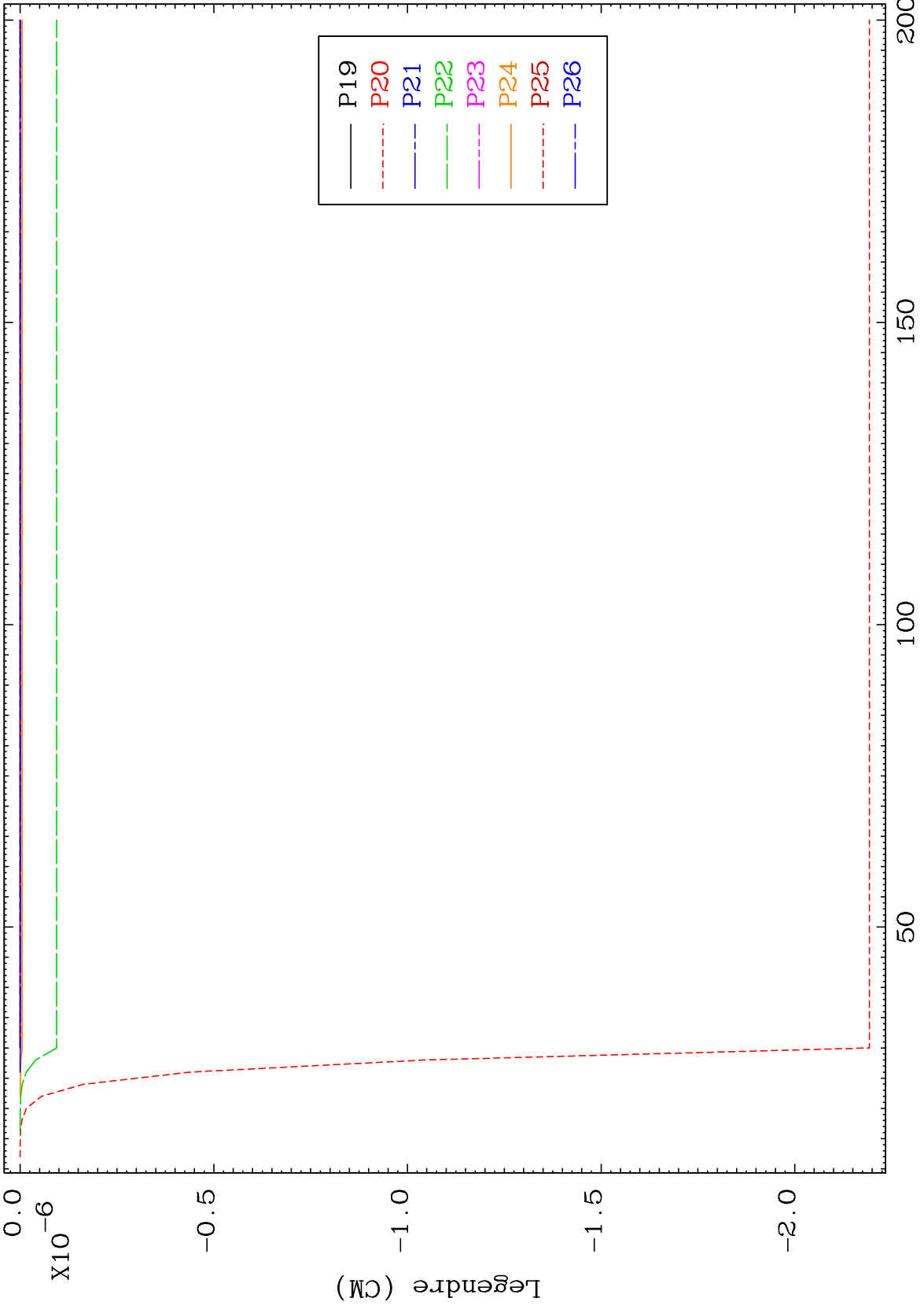
61-Pm-144



41

61-Pm-144

MAT 6140 MT= 57 (n,n') Level Legendre Coefficients 61-Pm-144

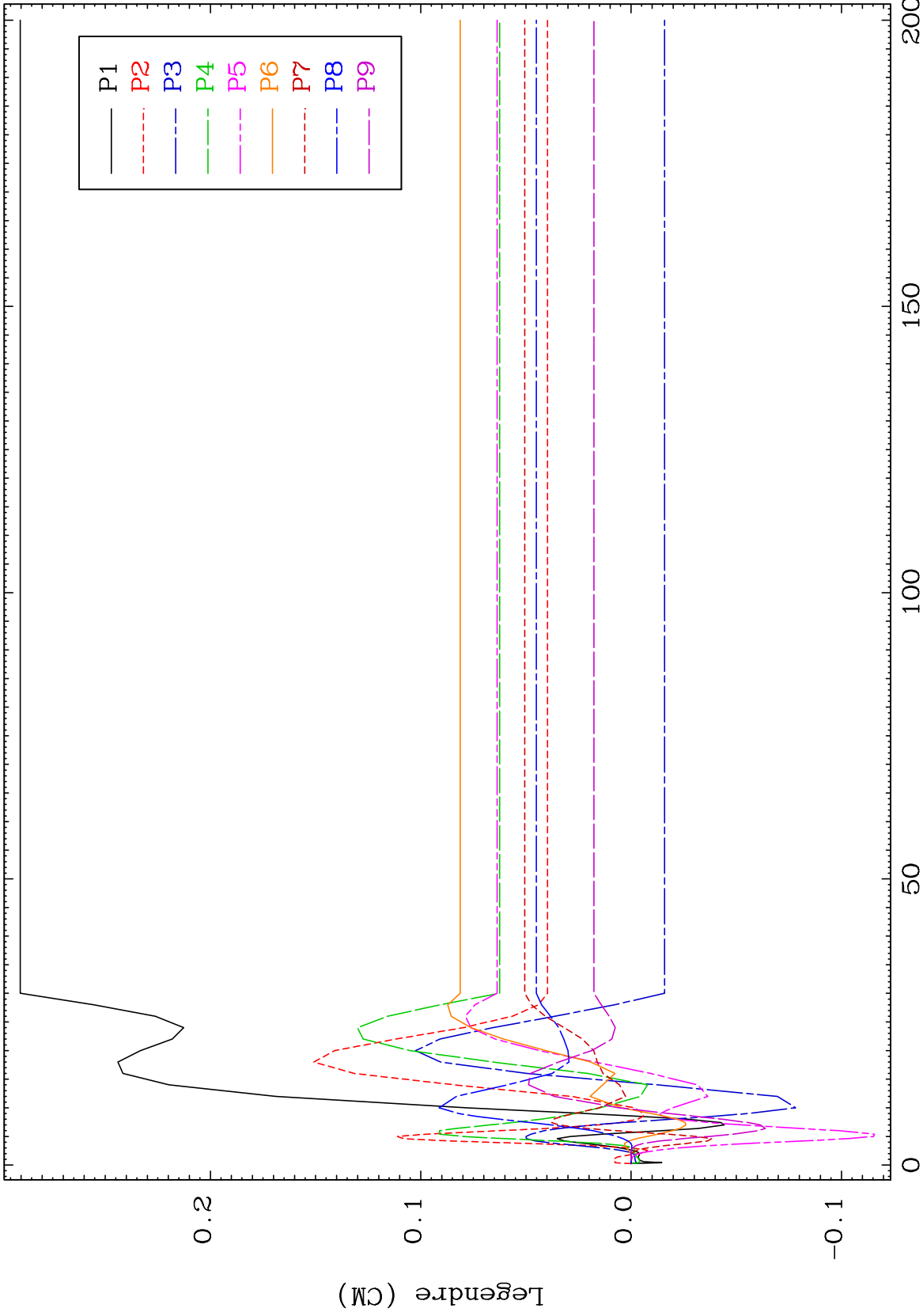


42 Incident Energy (MeV) 61-Pm-144

MAT 6140

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

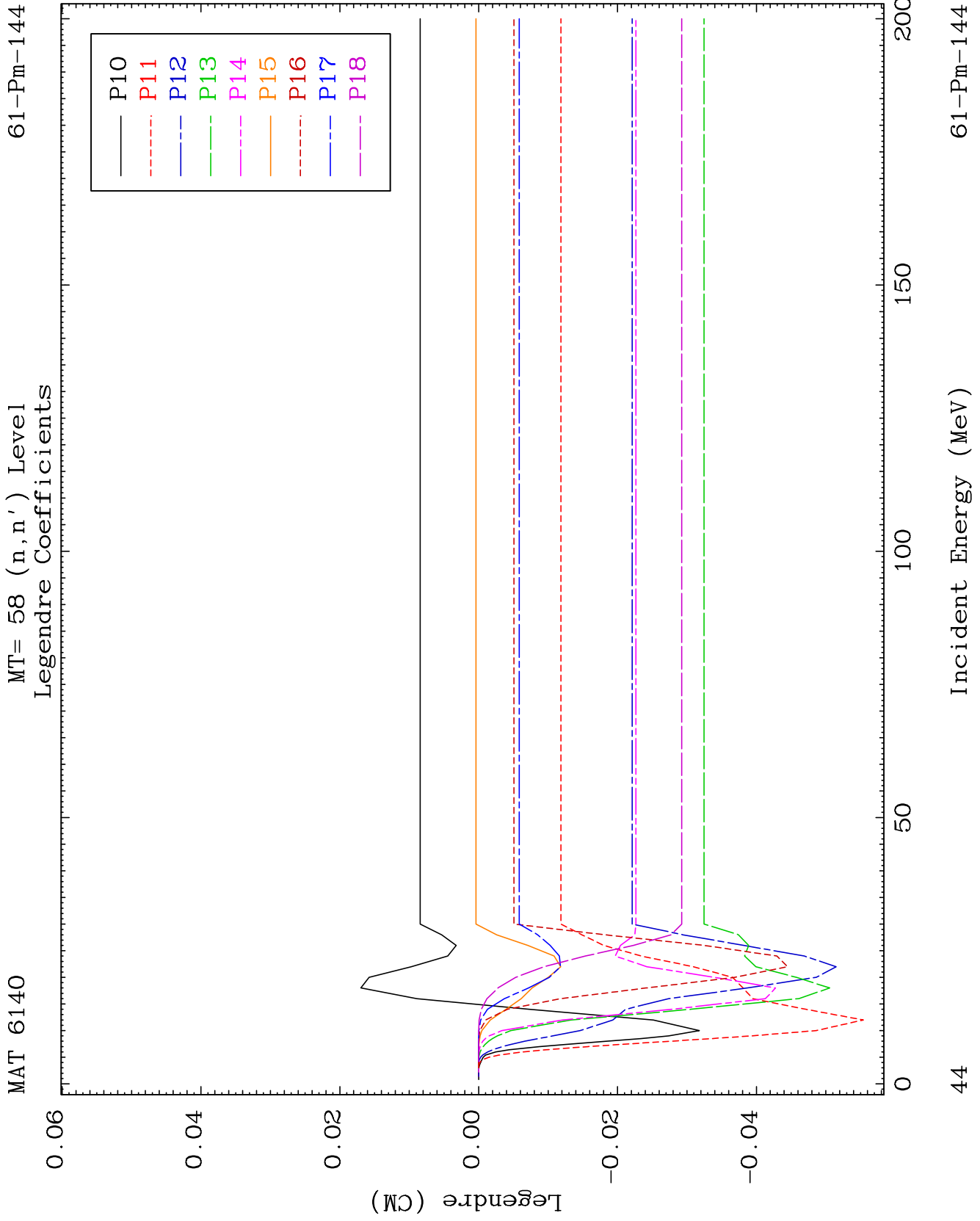
61-Pm-144



43

Incident Energy (MeV)

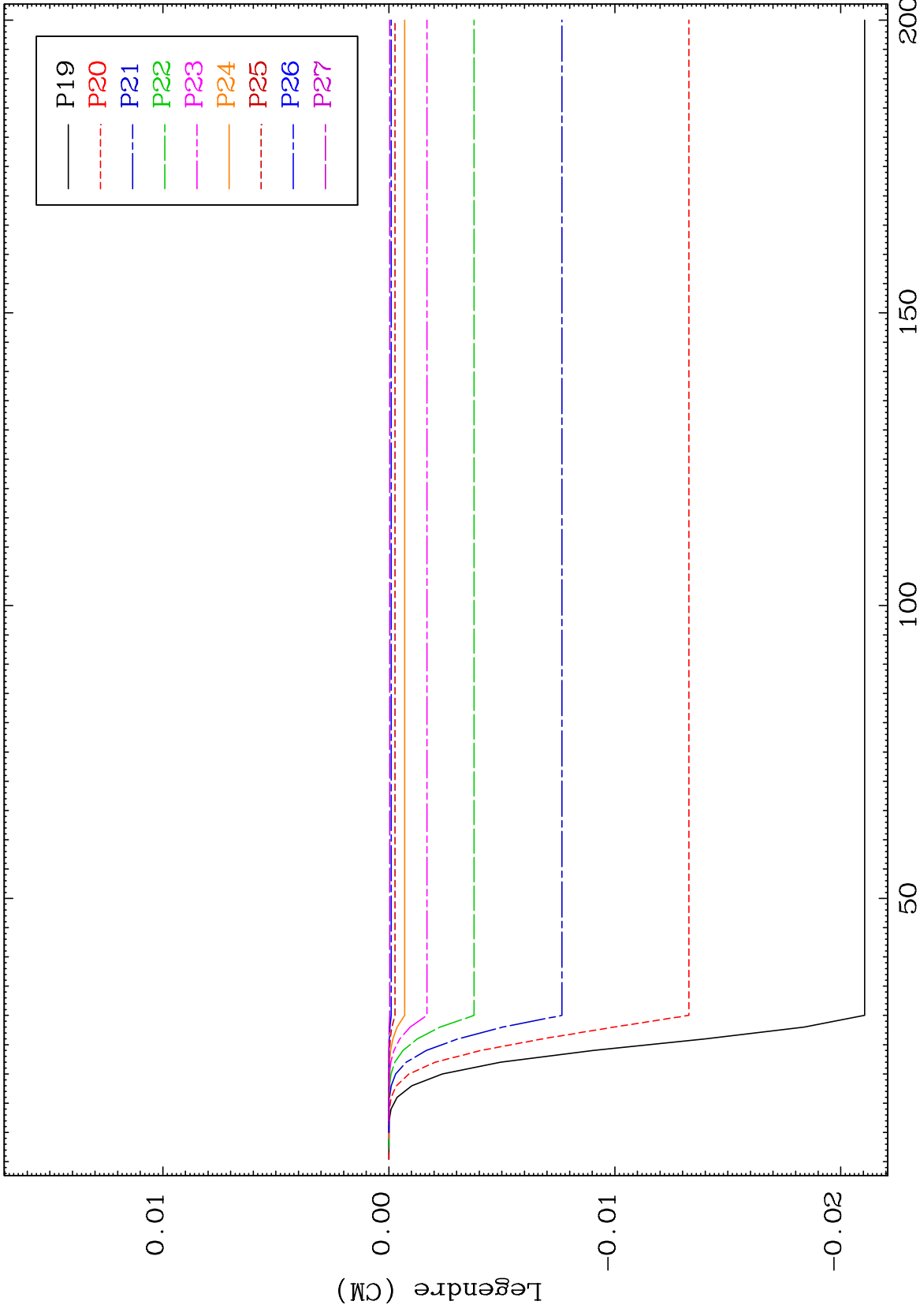
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MAT 6140

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

61-Pm-144



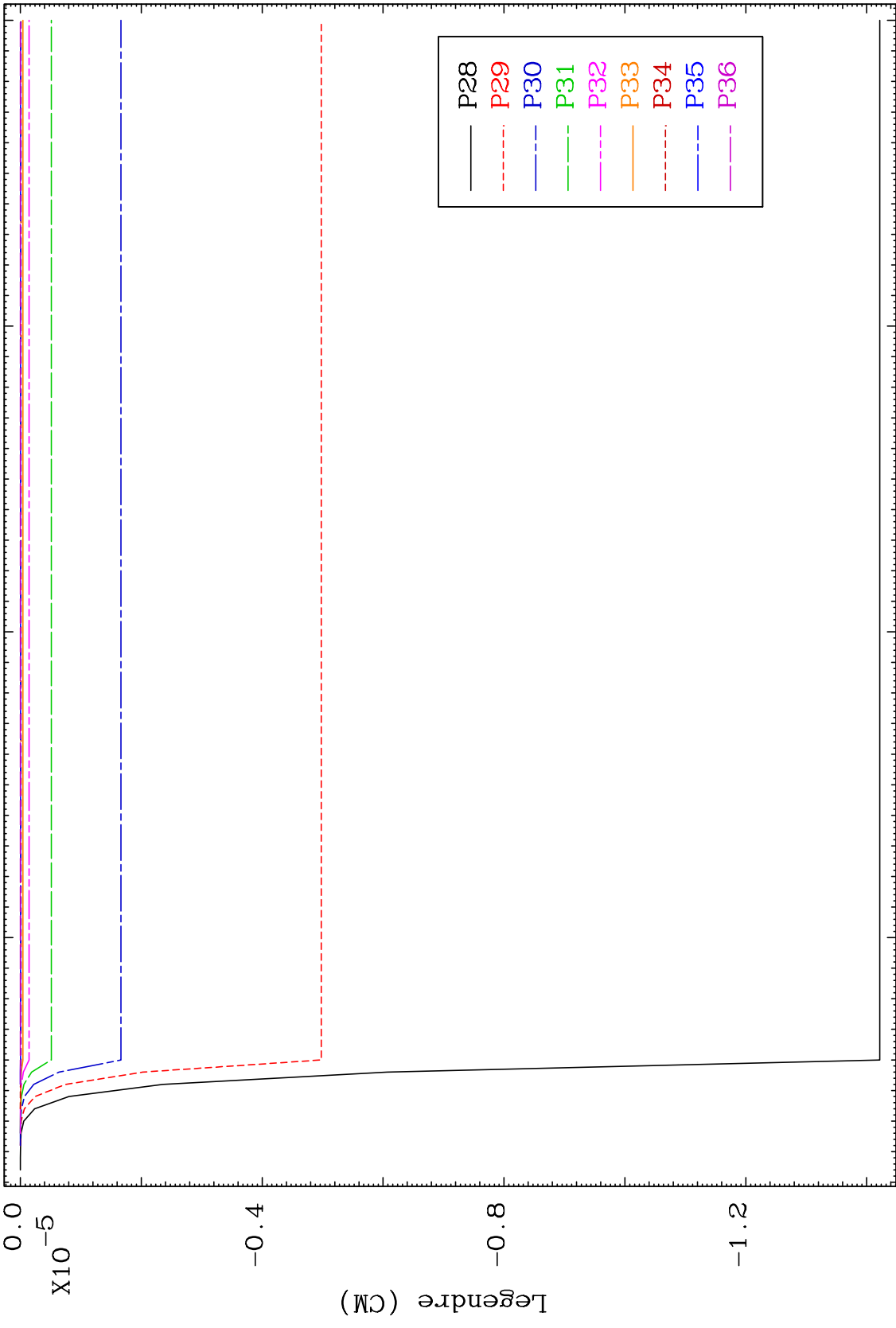
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Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 58 (n,n') Level 61-Pm-144

Legendre Coefficients

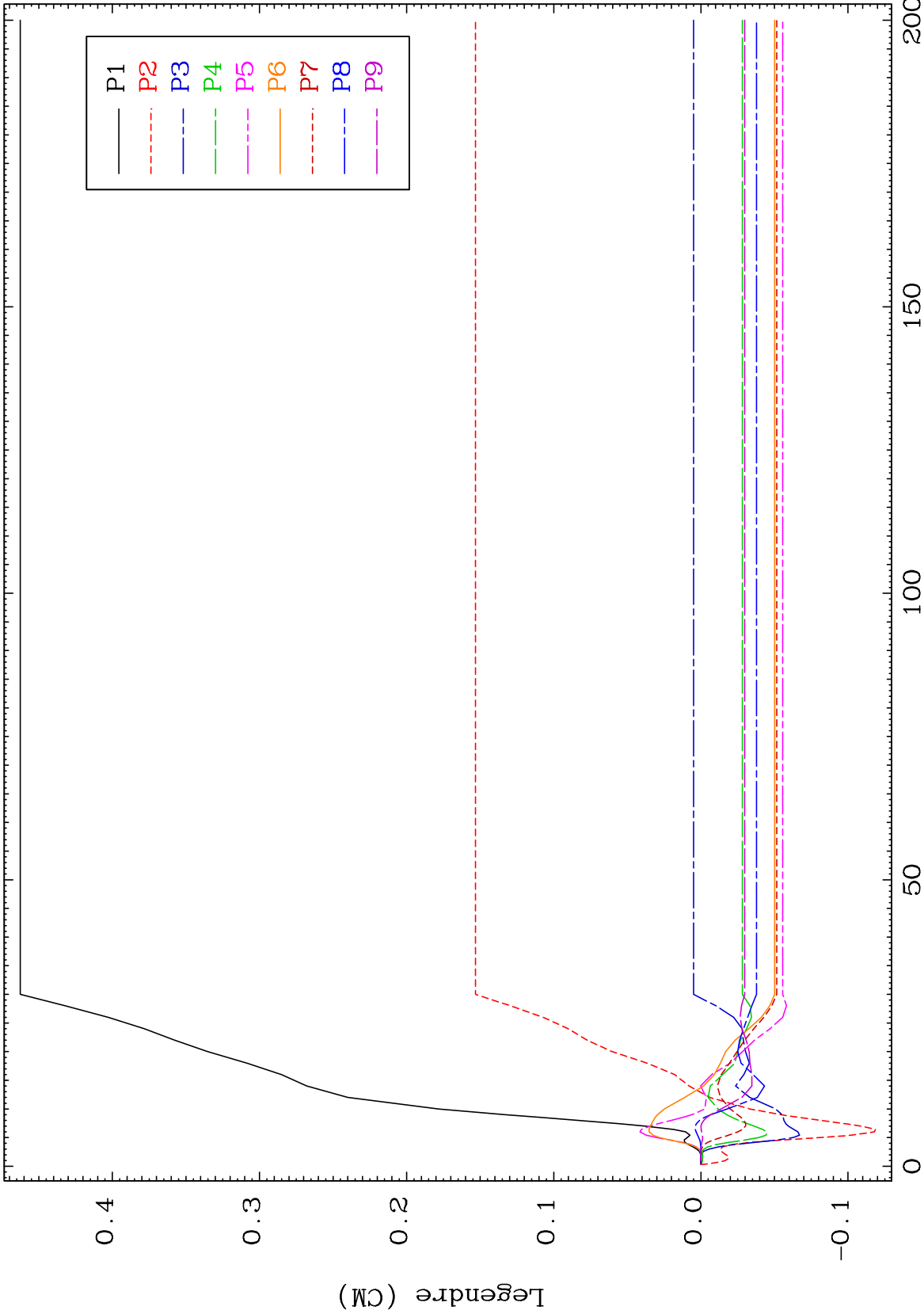


46 Incident Energy (MeV) 61-Pm-144

MAT 6140

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

61-Pm-144



47

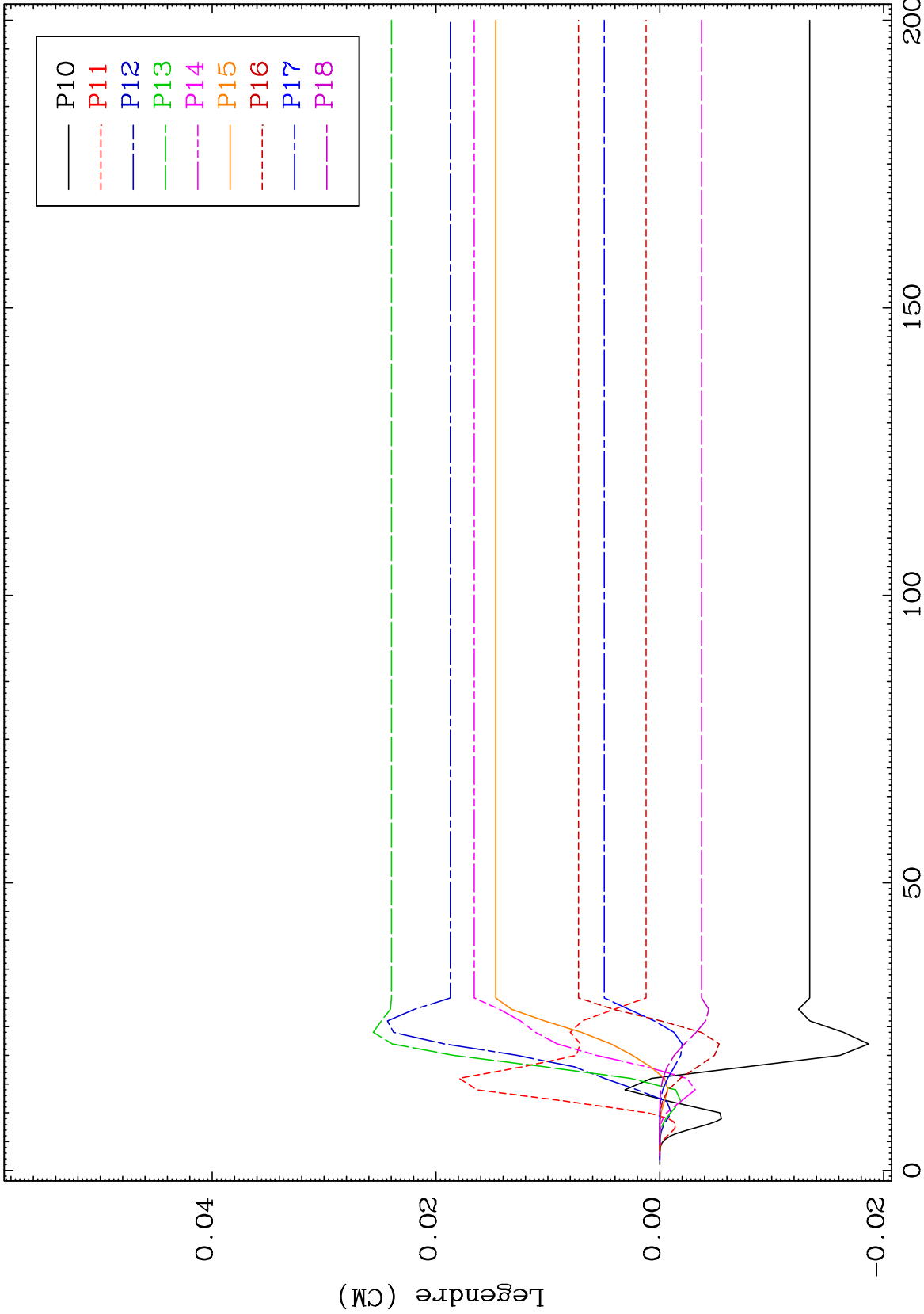
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



48

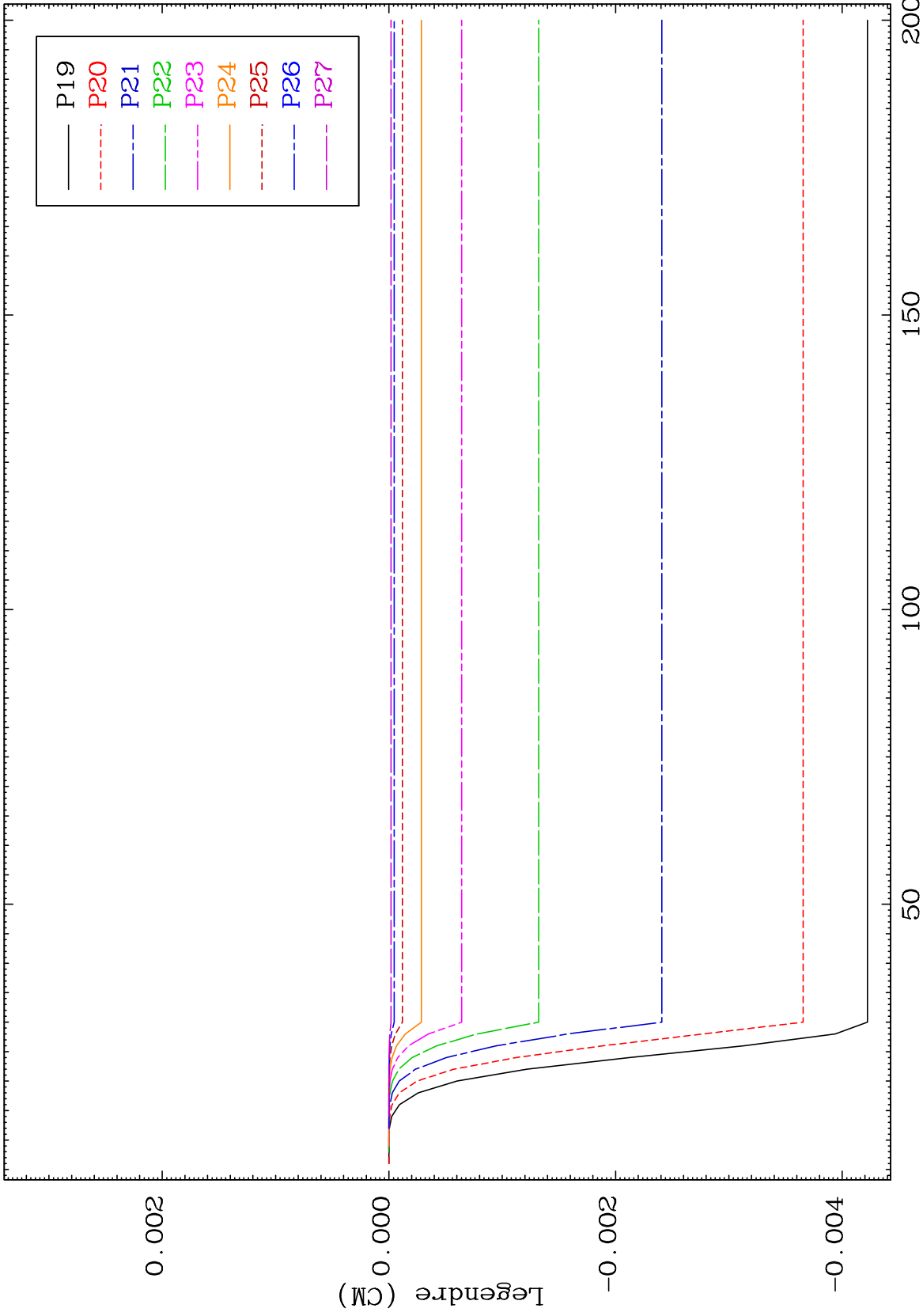
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144

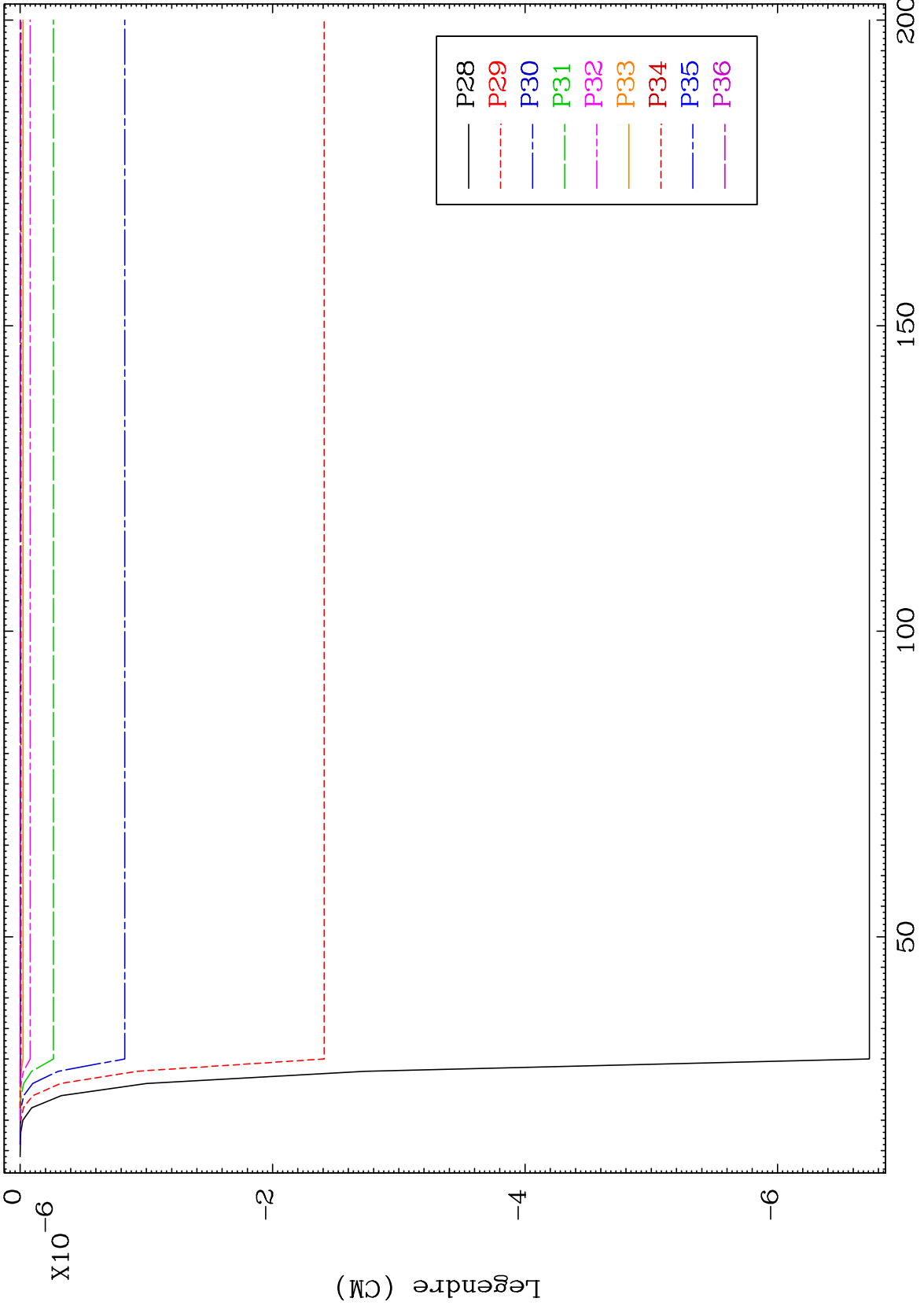


49

Incident Energy (MeV)

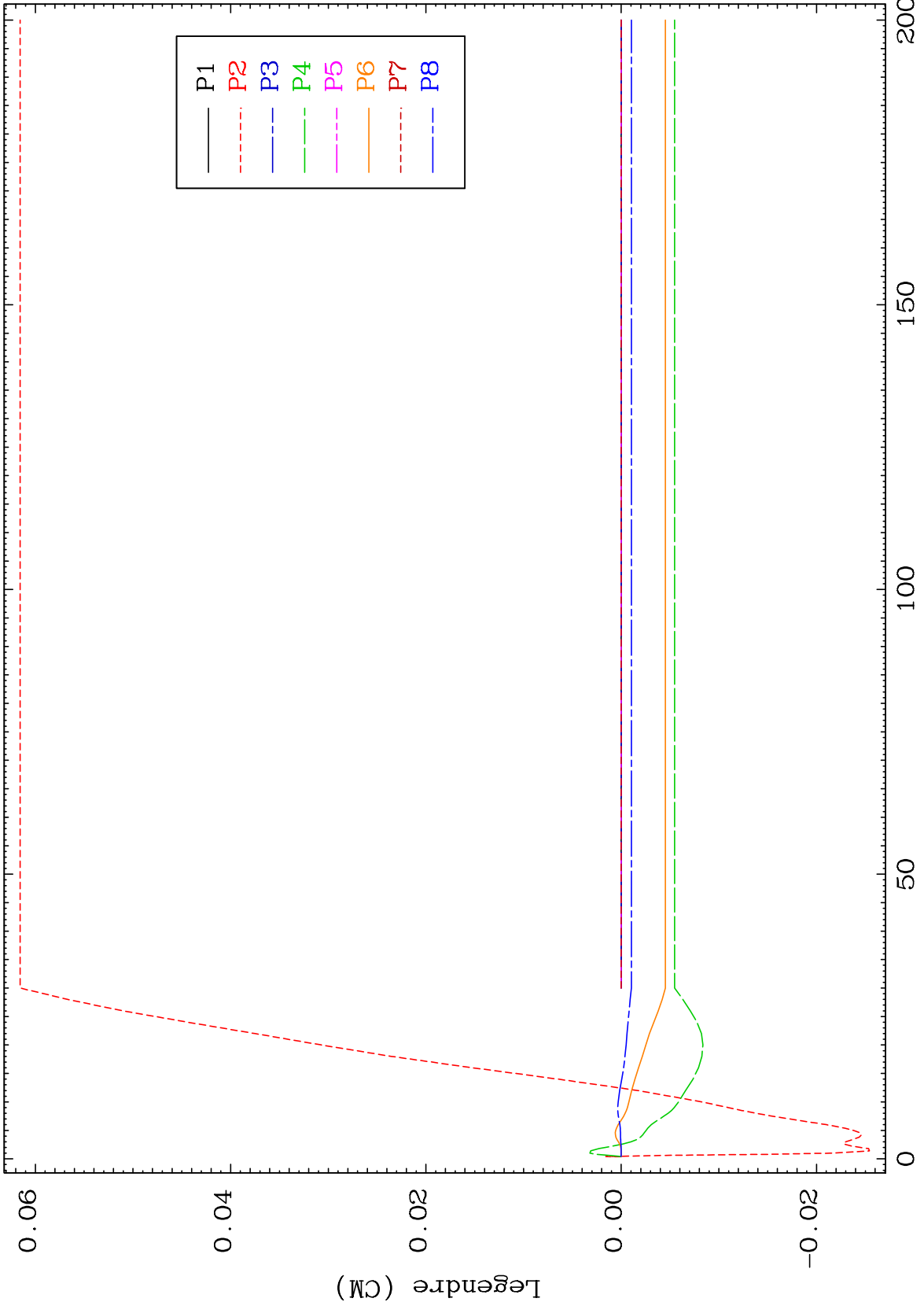
61-Pm-144

MAT 6140 MT= 59 (n,n') Level Legendre Coefficients 61-Pm-144



50 100 150 200 Incident Energy (MeV) 61-Pm-144

MAT 6140 MT= 60 (n,n') Level Legendre Coefficients 61-Pm-144

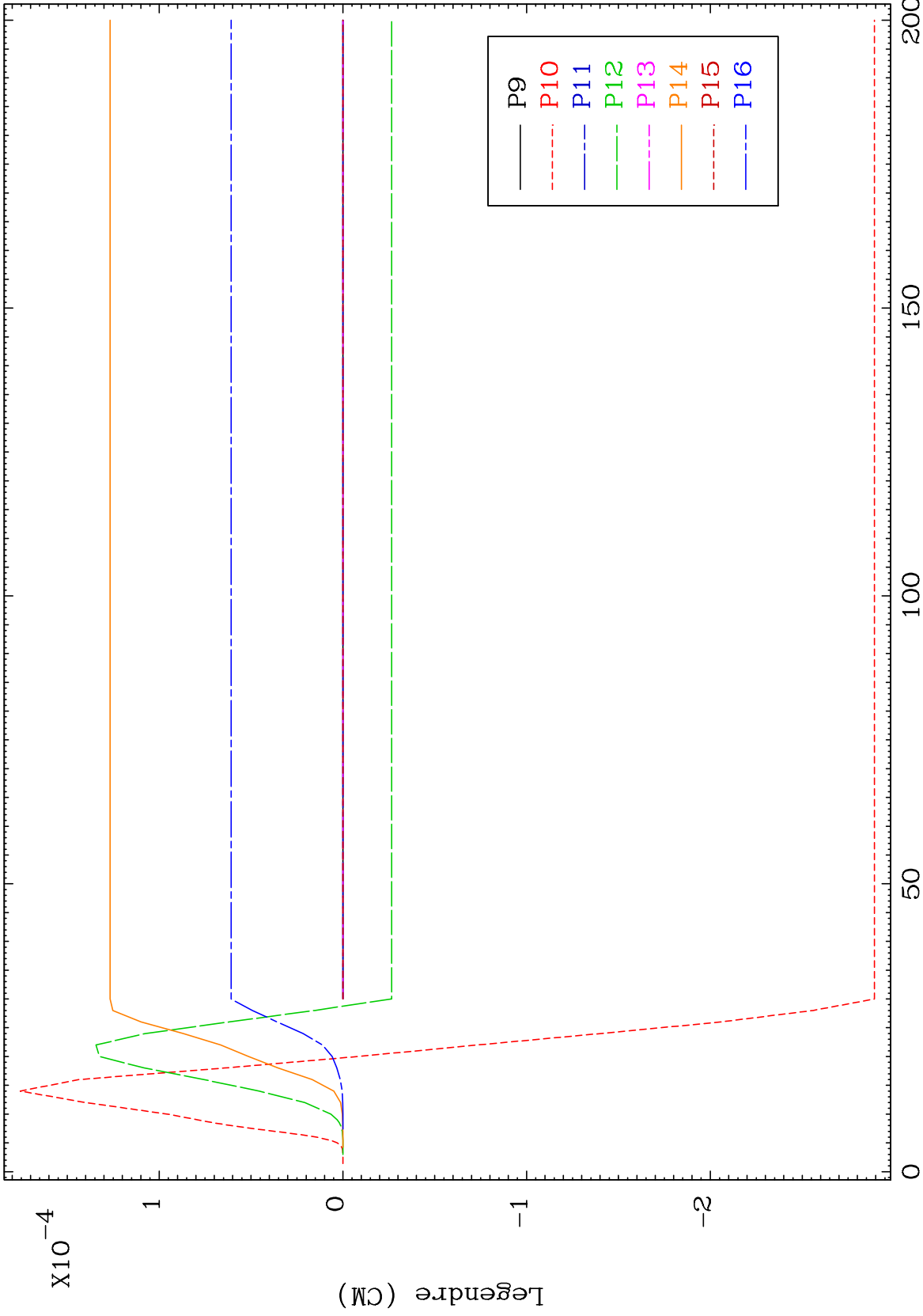


51 61-Pm-144

MAT 6140

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

61-Pm-144

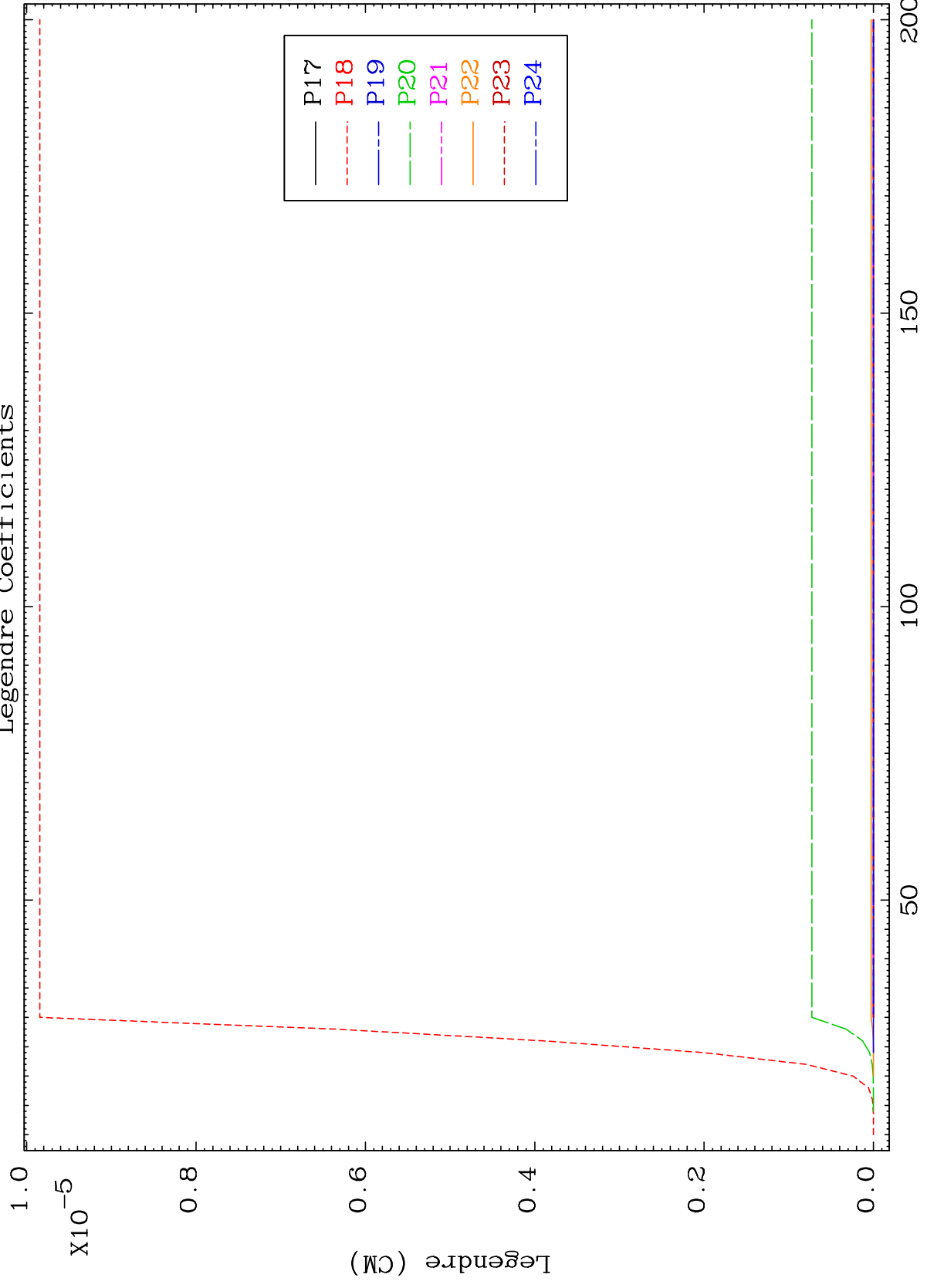


52

61-Pm-144

61-Pm-144

MAT 6140 MT= 60 (n,n') Level Legendre Coefficients 61-Pm-144

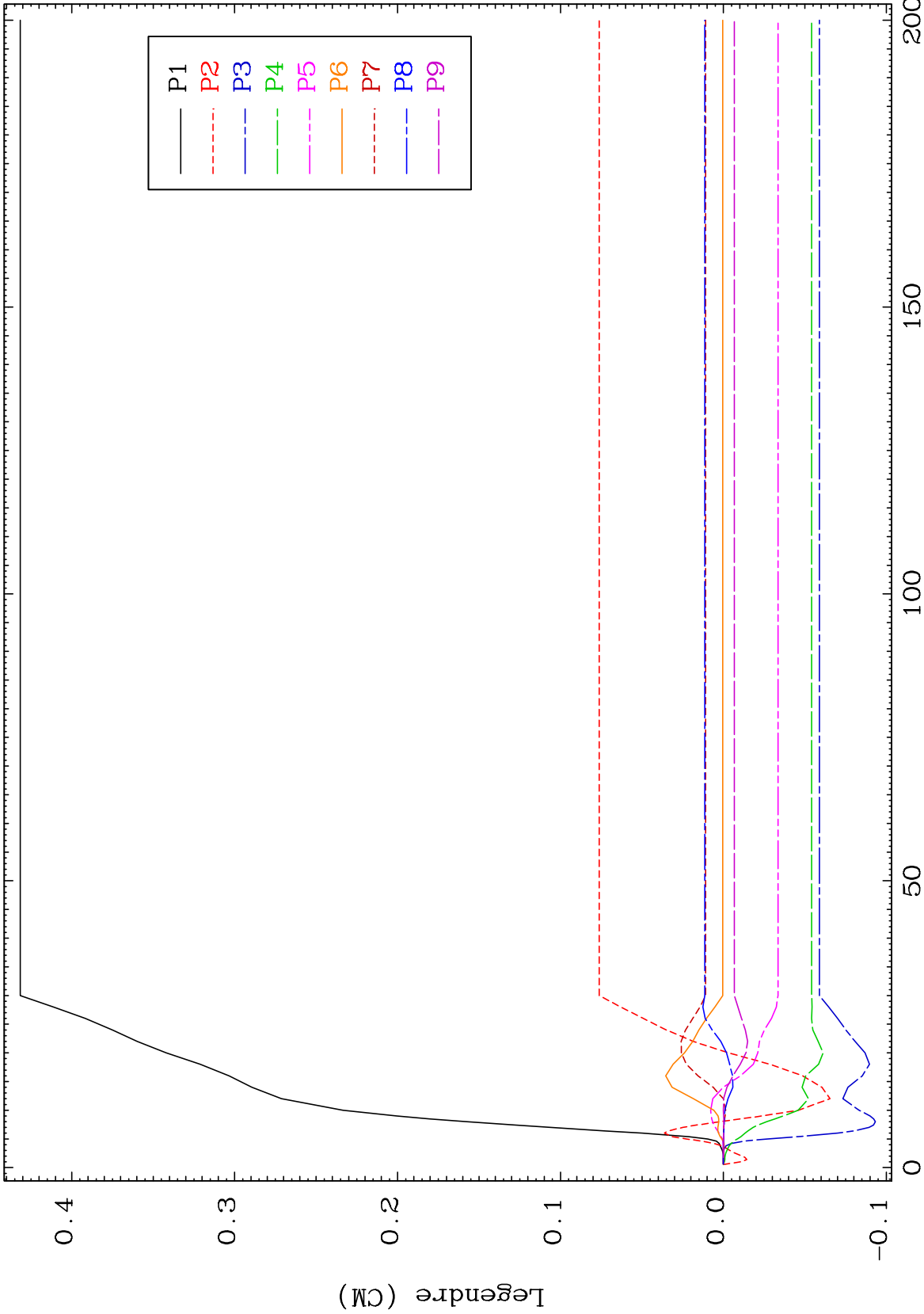


53 Incident Energy (MeV) 200 61-Pm-144

MAT 6140

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

61-Pm-144



54

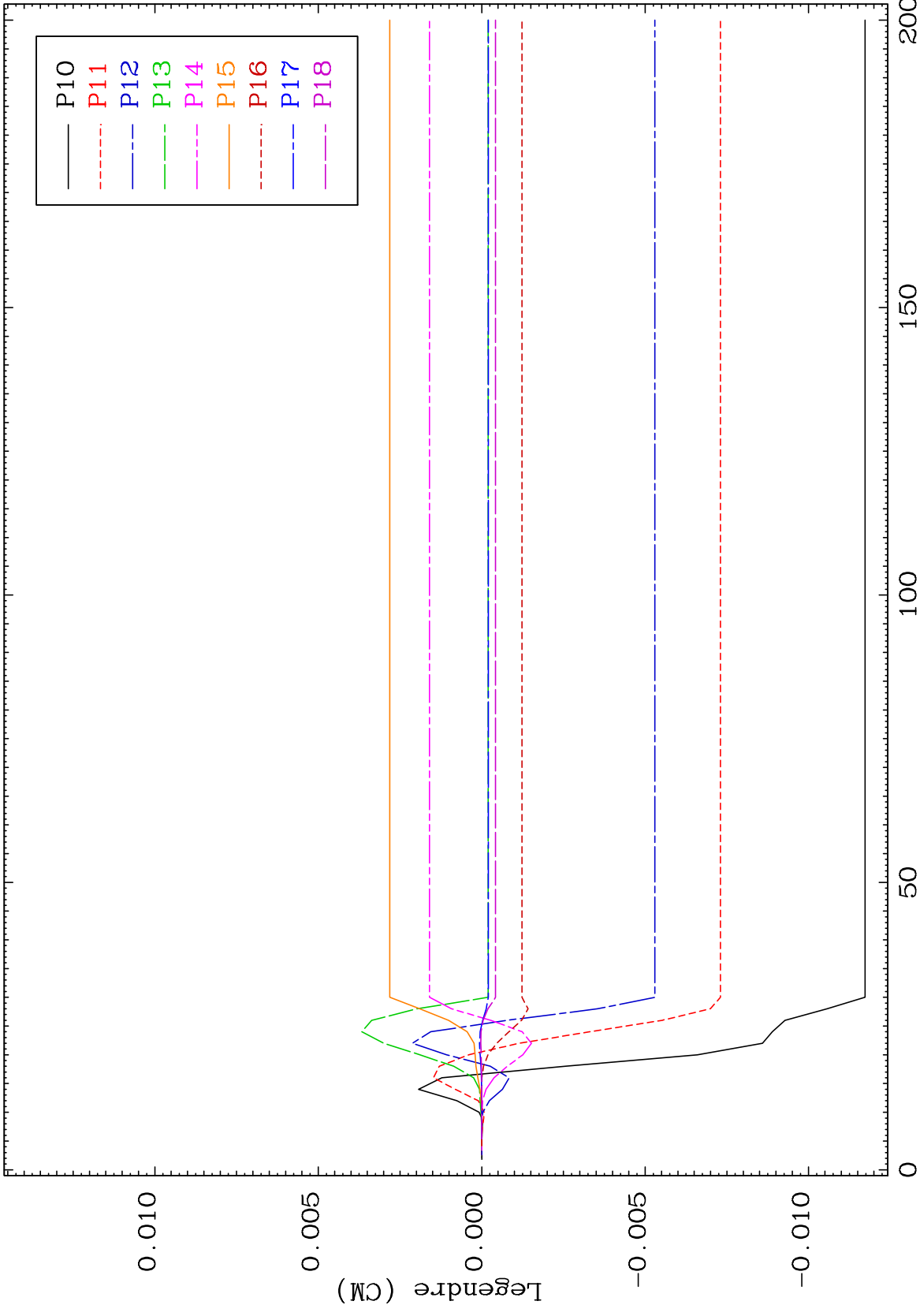
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



55

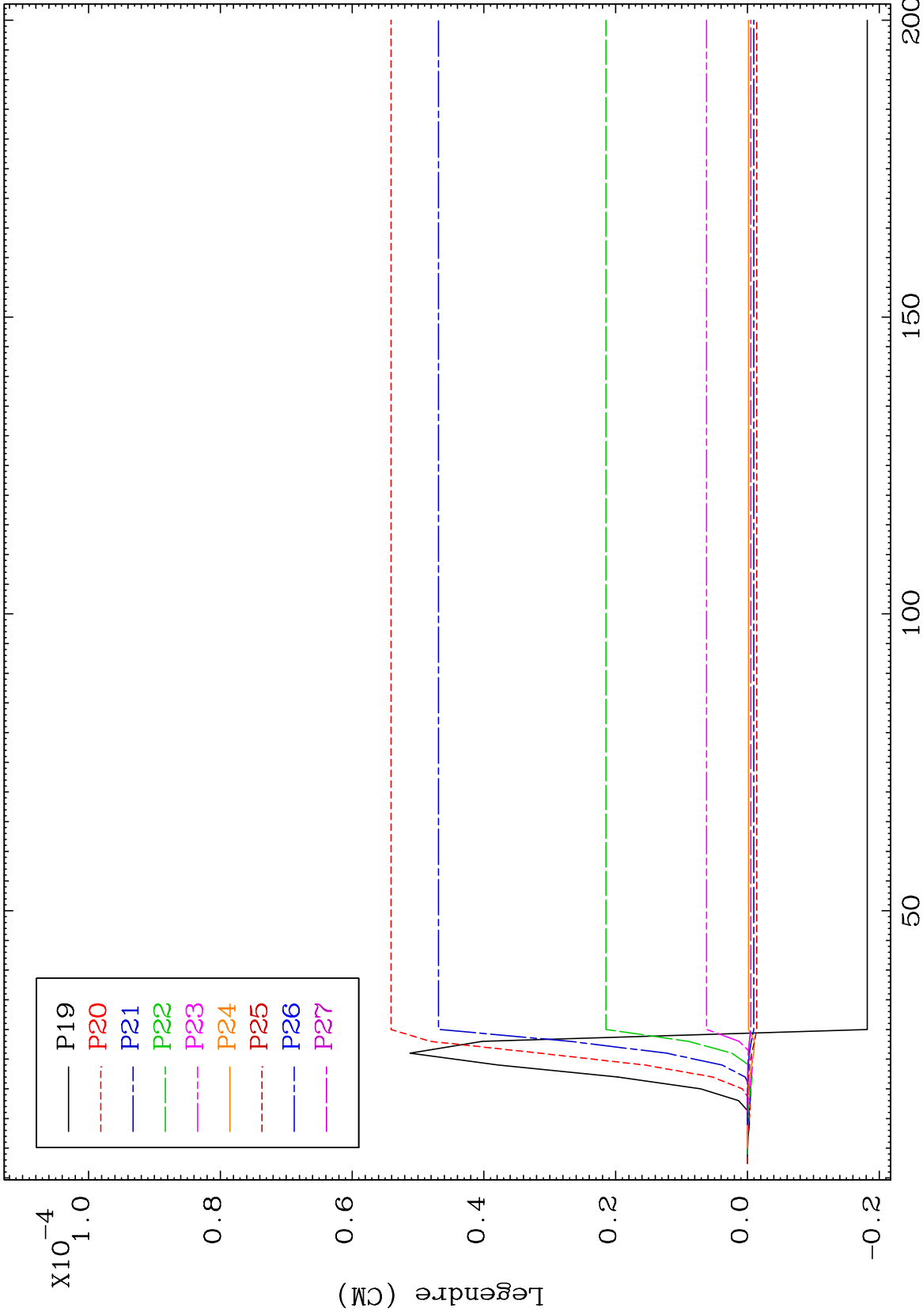
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



56

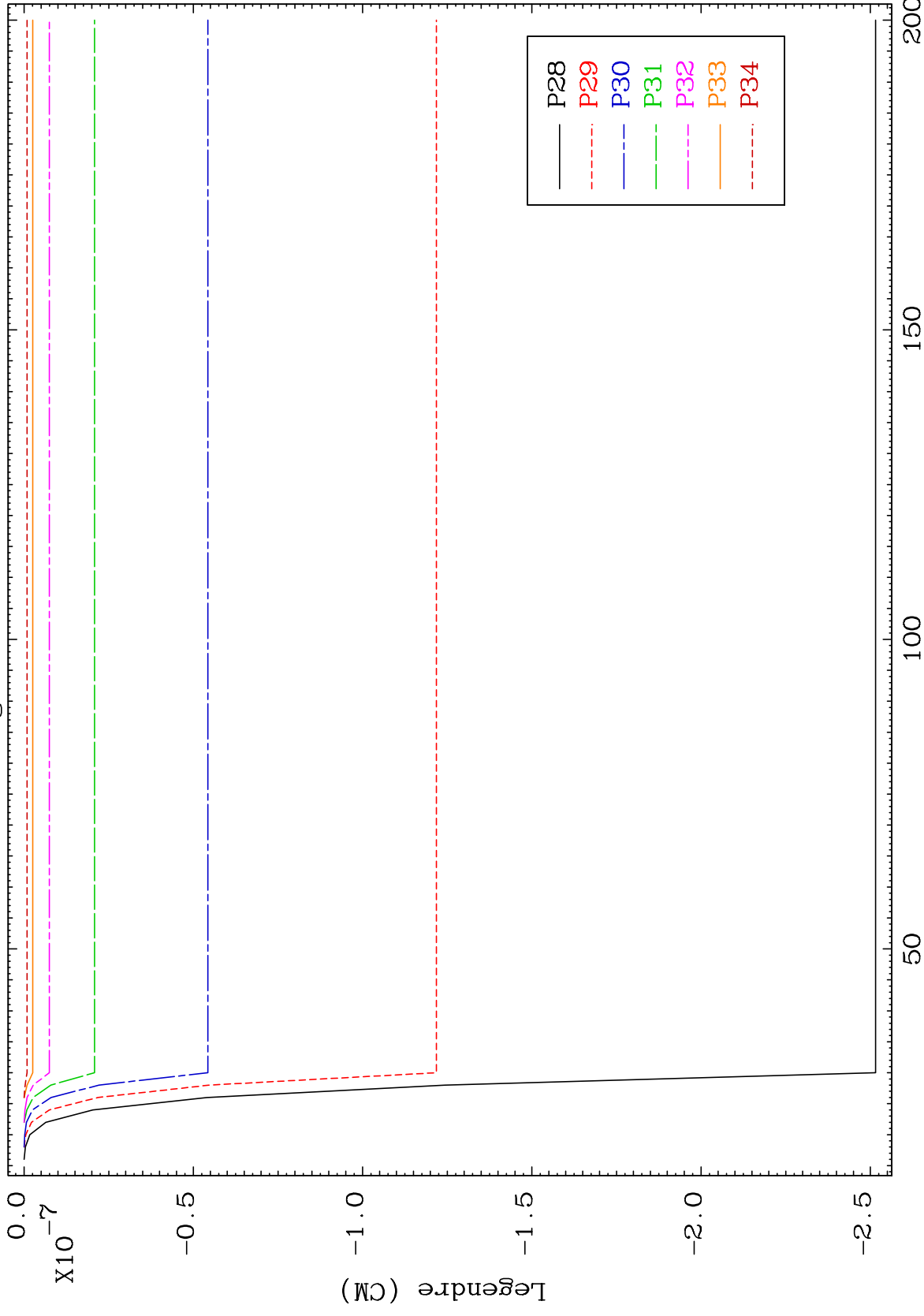
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

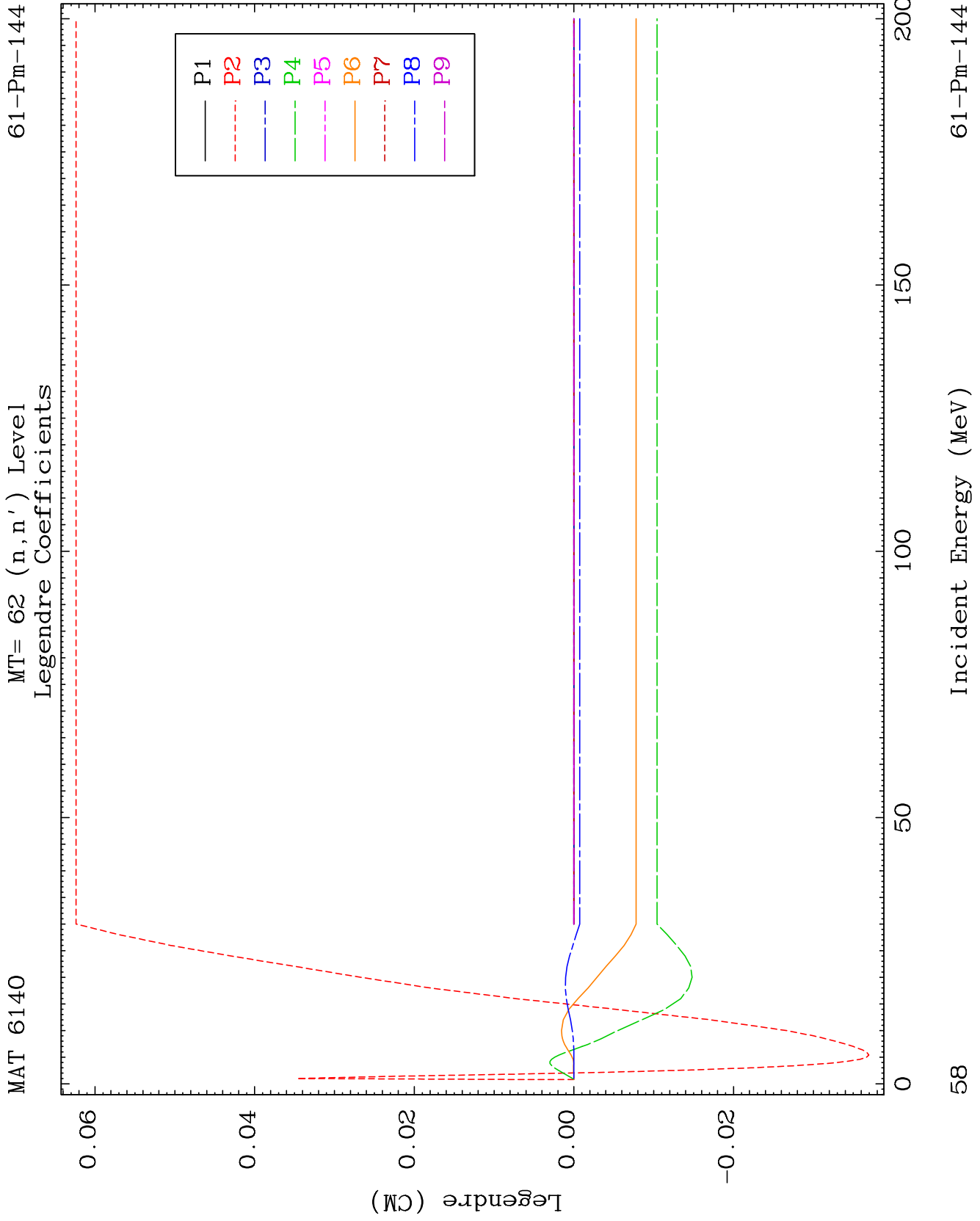
61-Pm-144



61-Pm-144

Incident Energy (MeV)

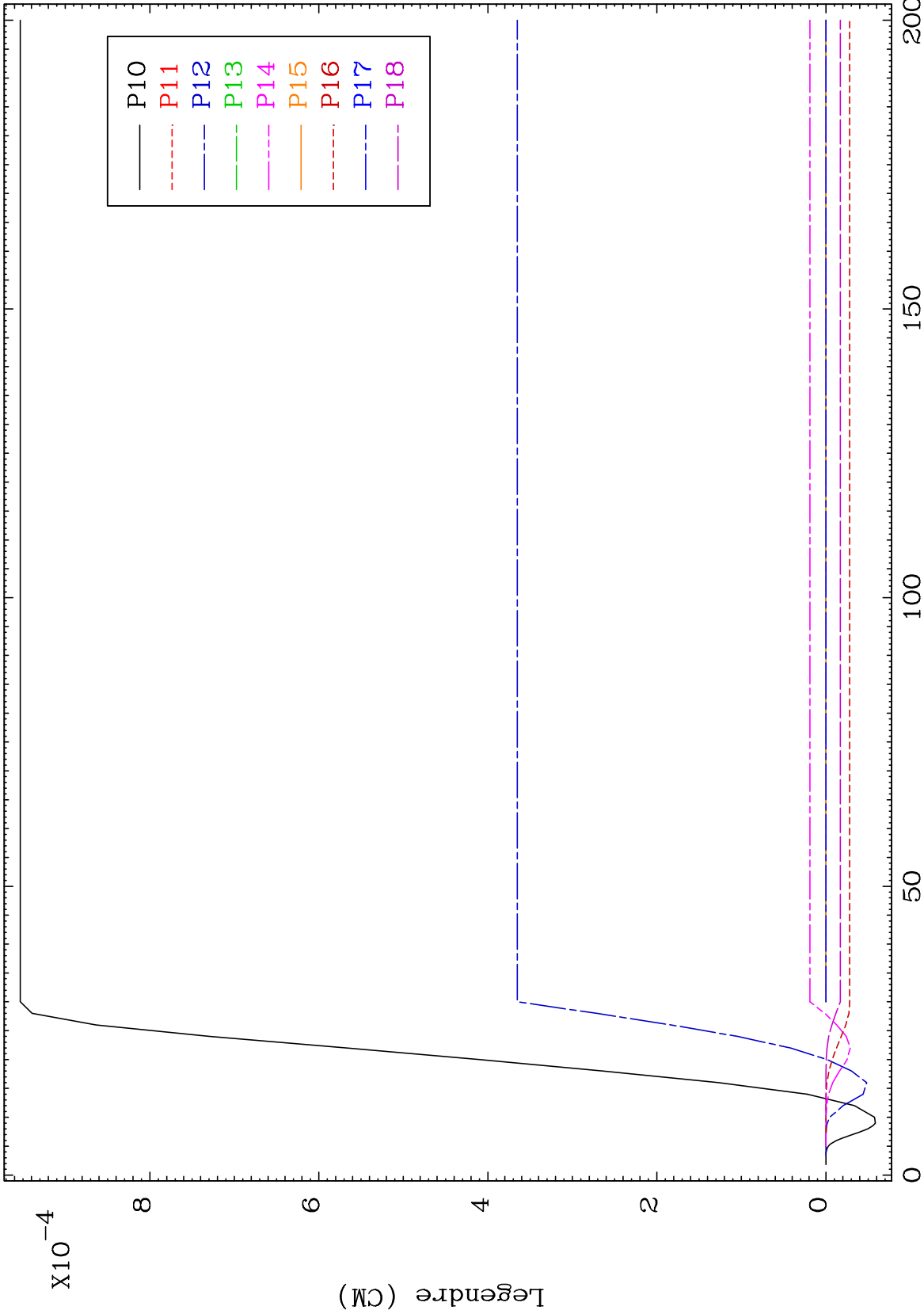
57



MAT 6140

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

61-Pm-144

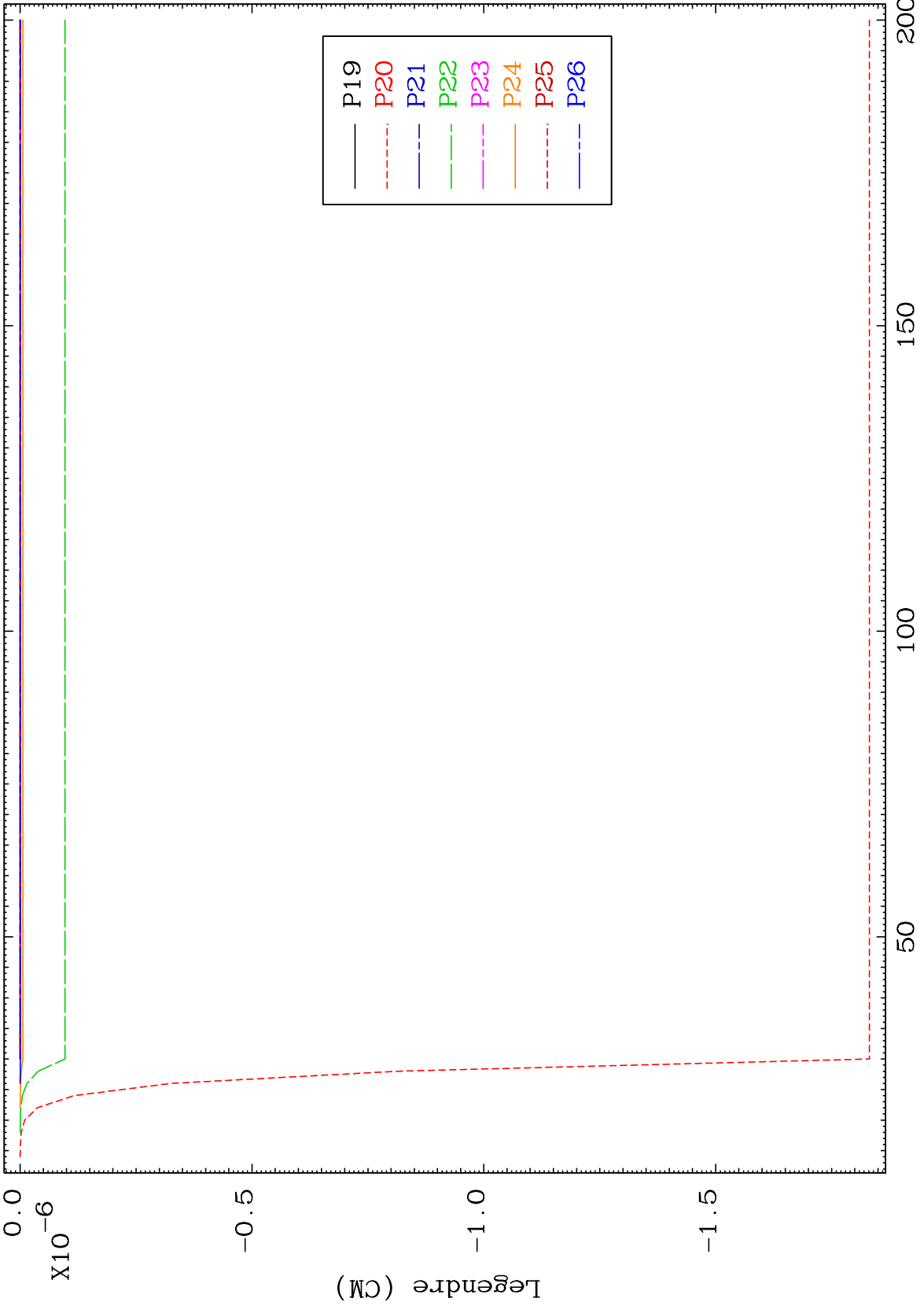


59

Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 62 (n,n') Level Legendre Coefficients 61-Pm-144

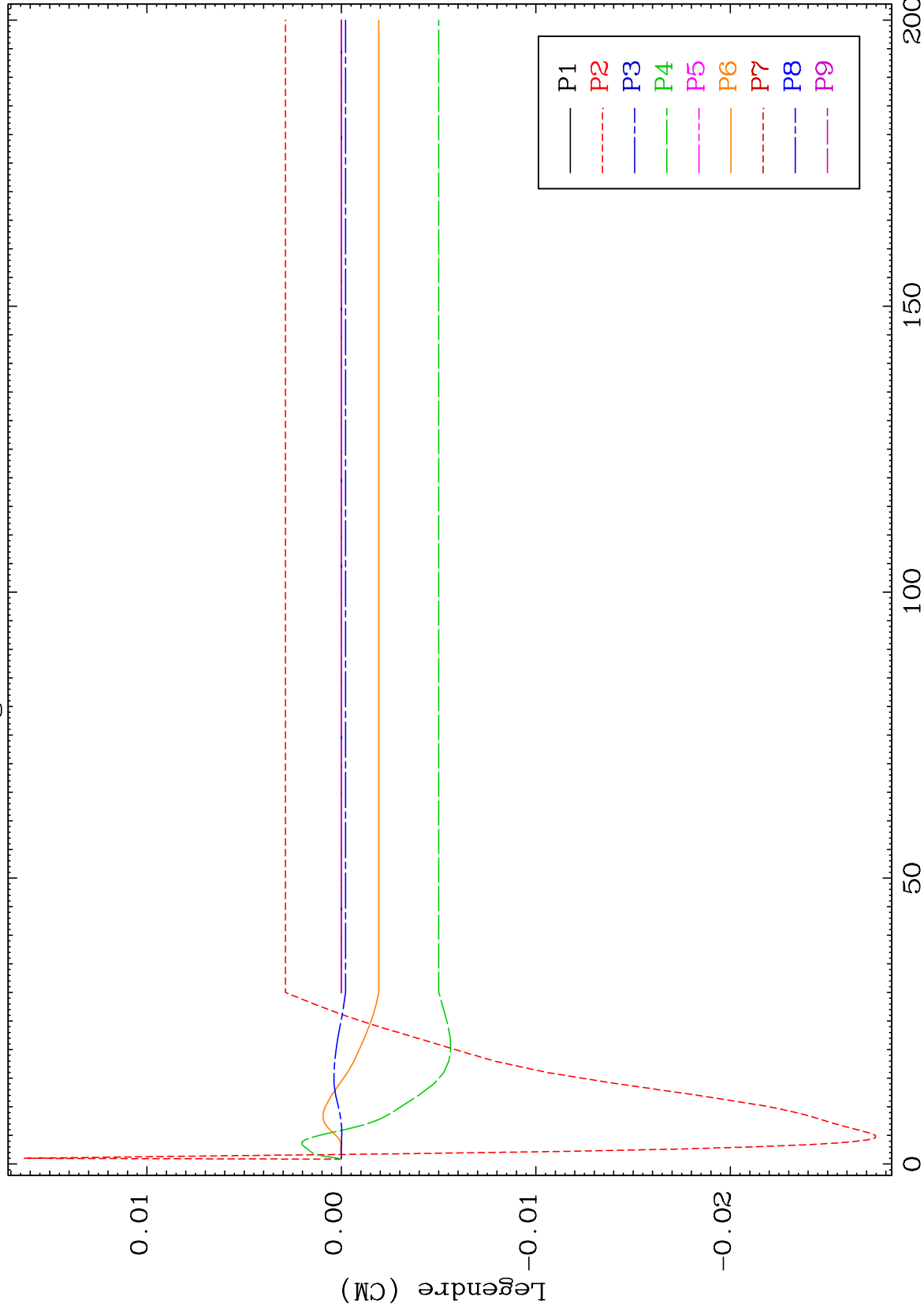


61-Pm-144 Incident Energy (MeV) 61-Pm-144

MAT 6140

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

61-Pm-144



61

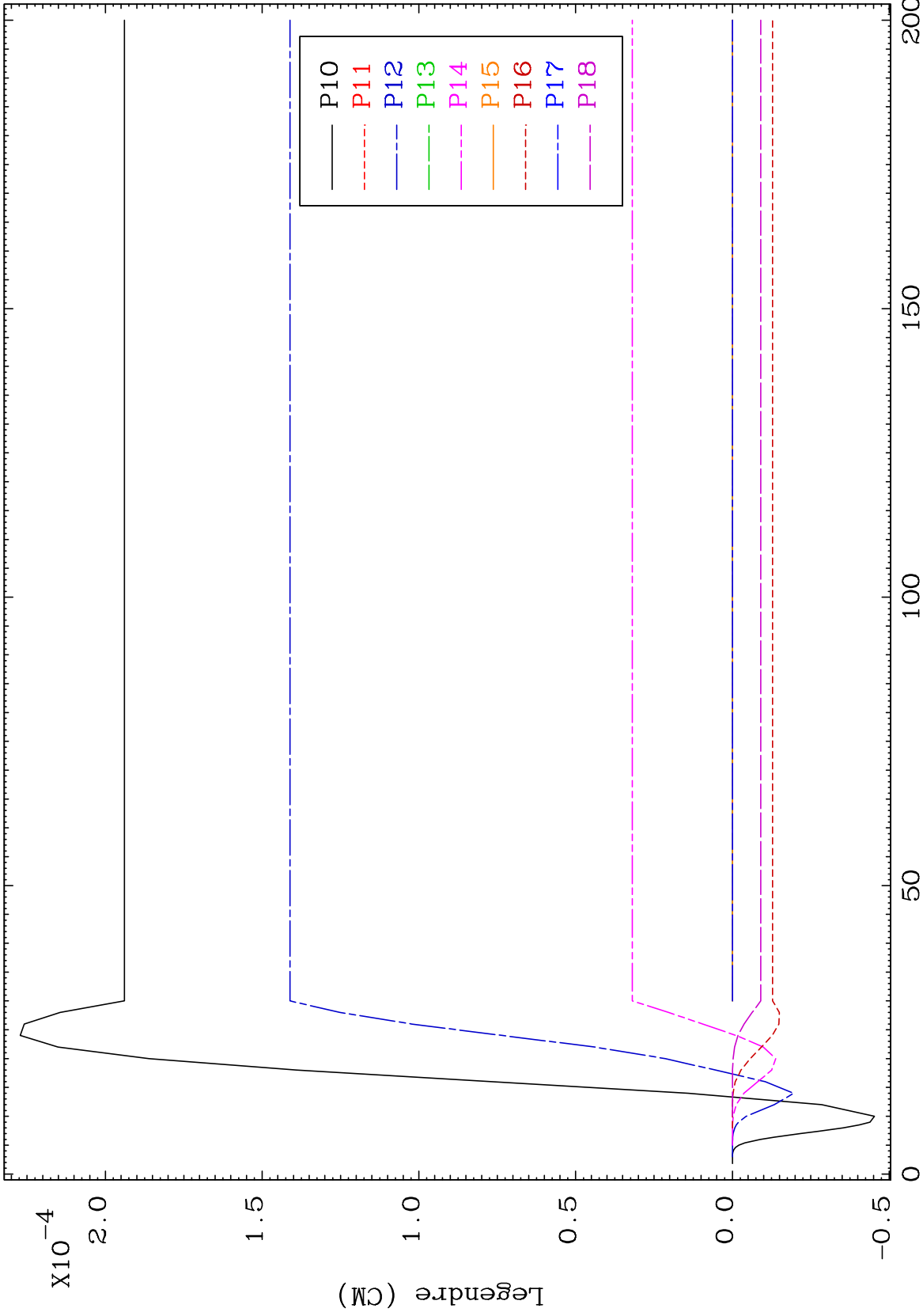
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



62

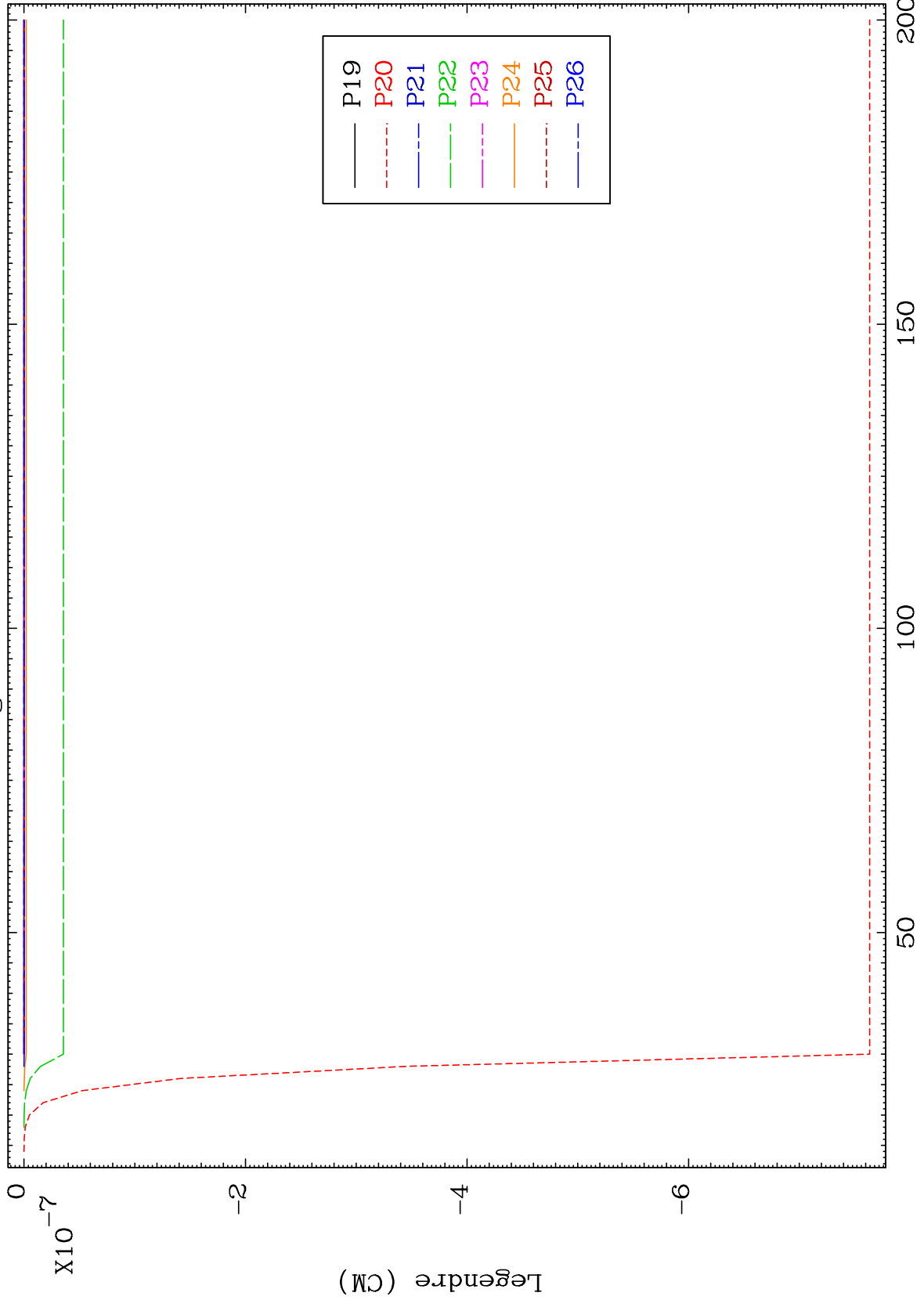
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

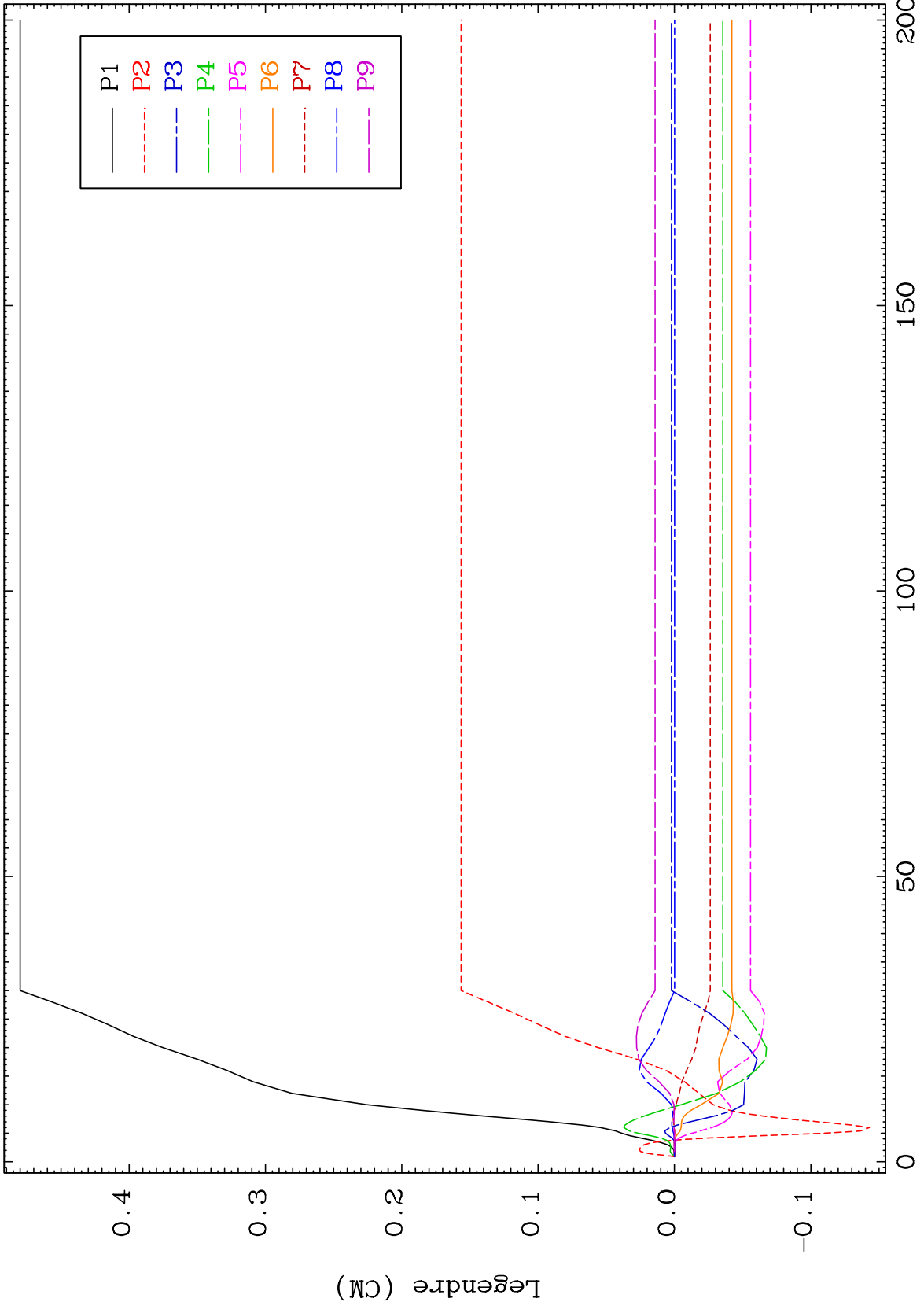
61-Pm-144



63

61-Pm-144

MAT 6140 MT= 64 (n,n') Level Legendre Coefficients 61-Pm-144

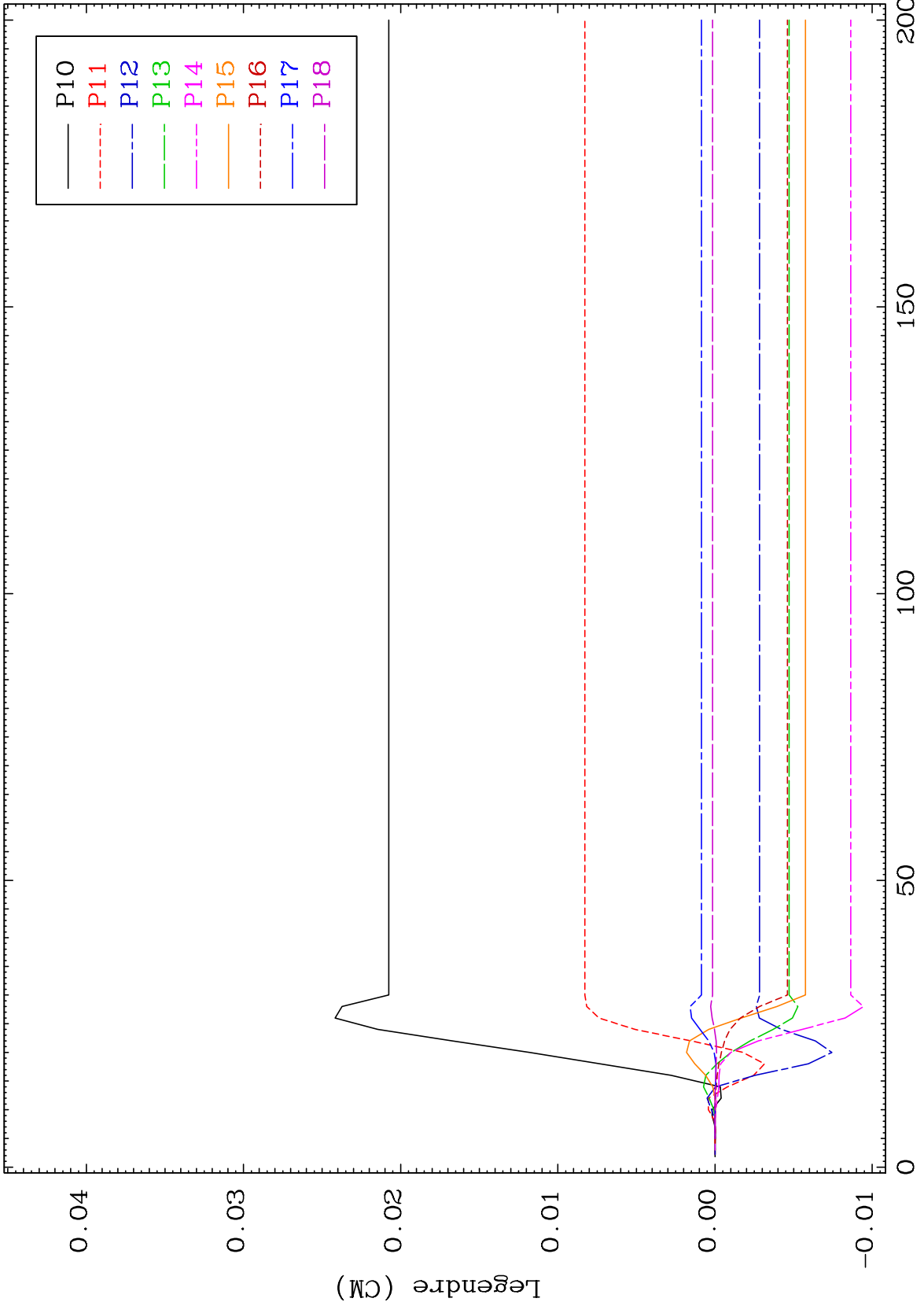


64 61-Pm-144

MAT 6140

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

61-Pm-144



65

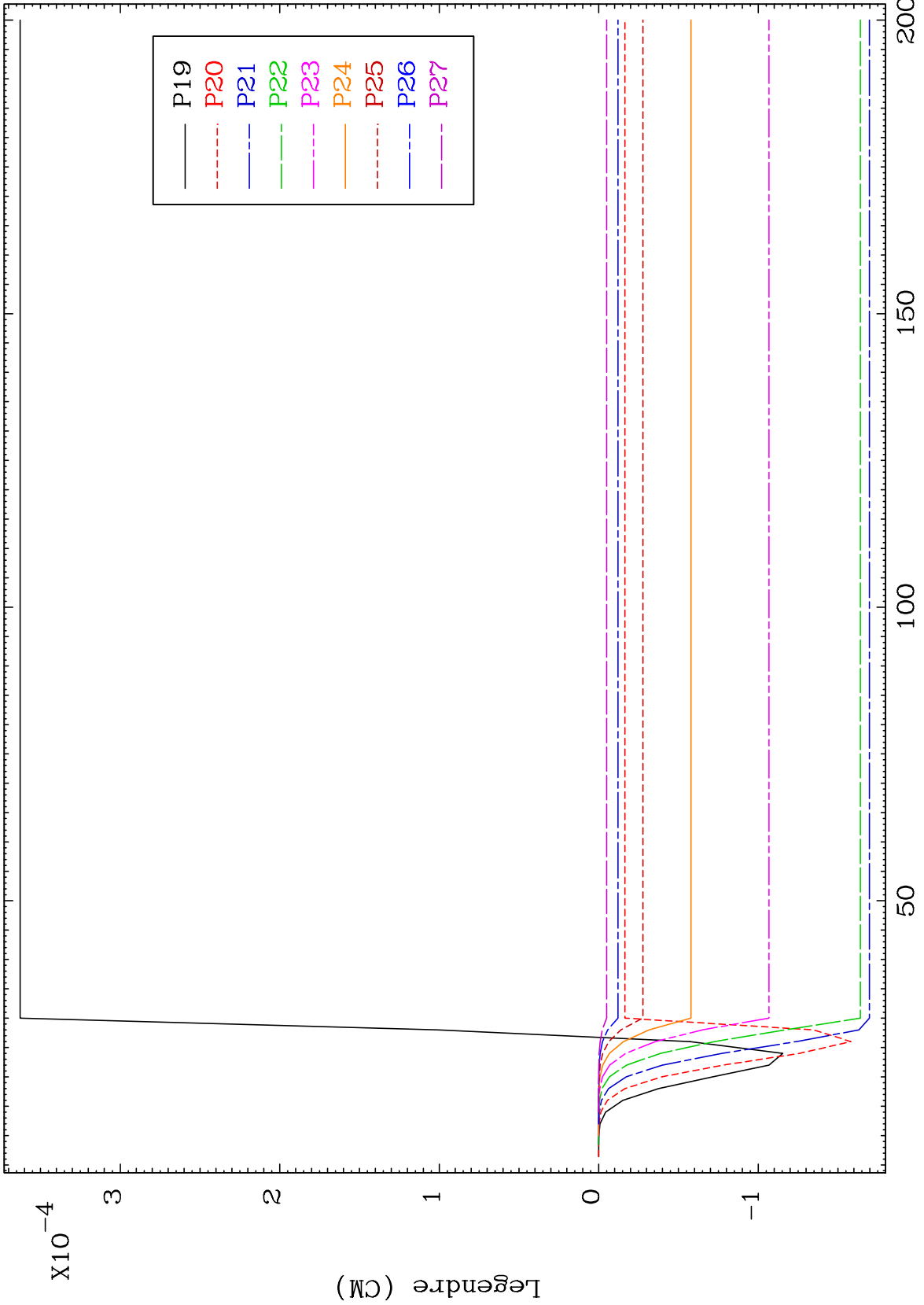
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



66

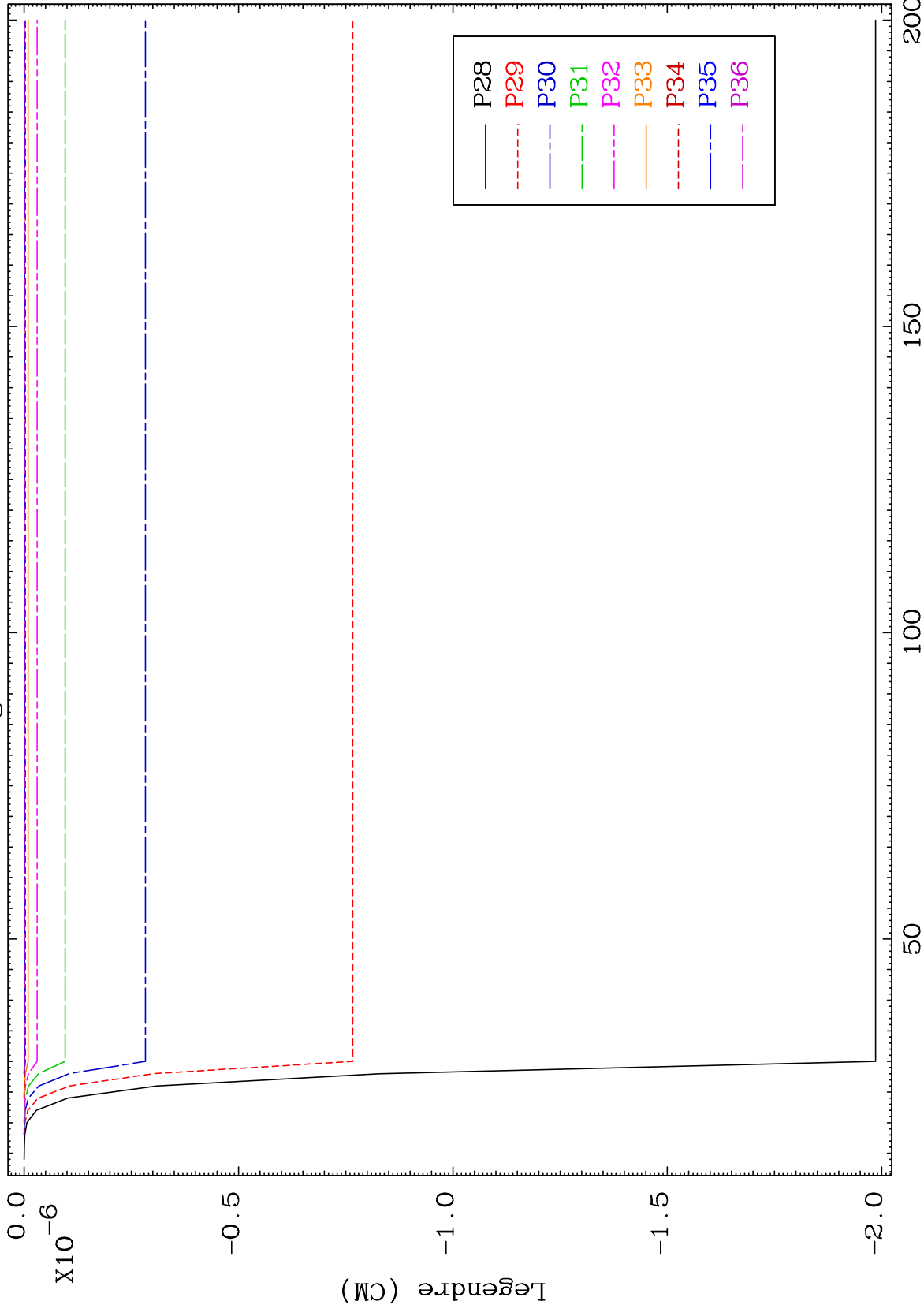
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



61-Pm-144

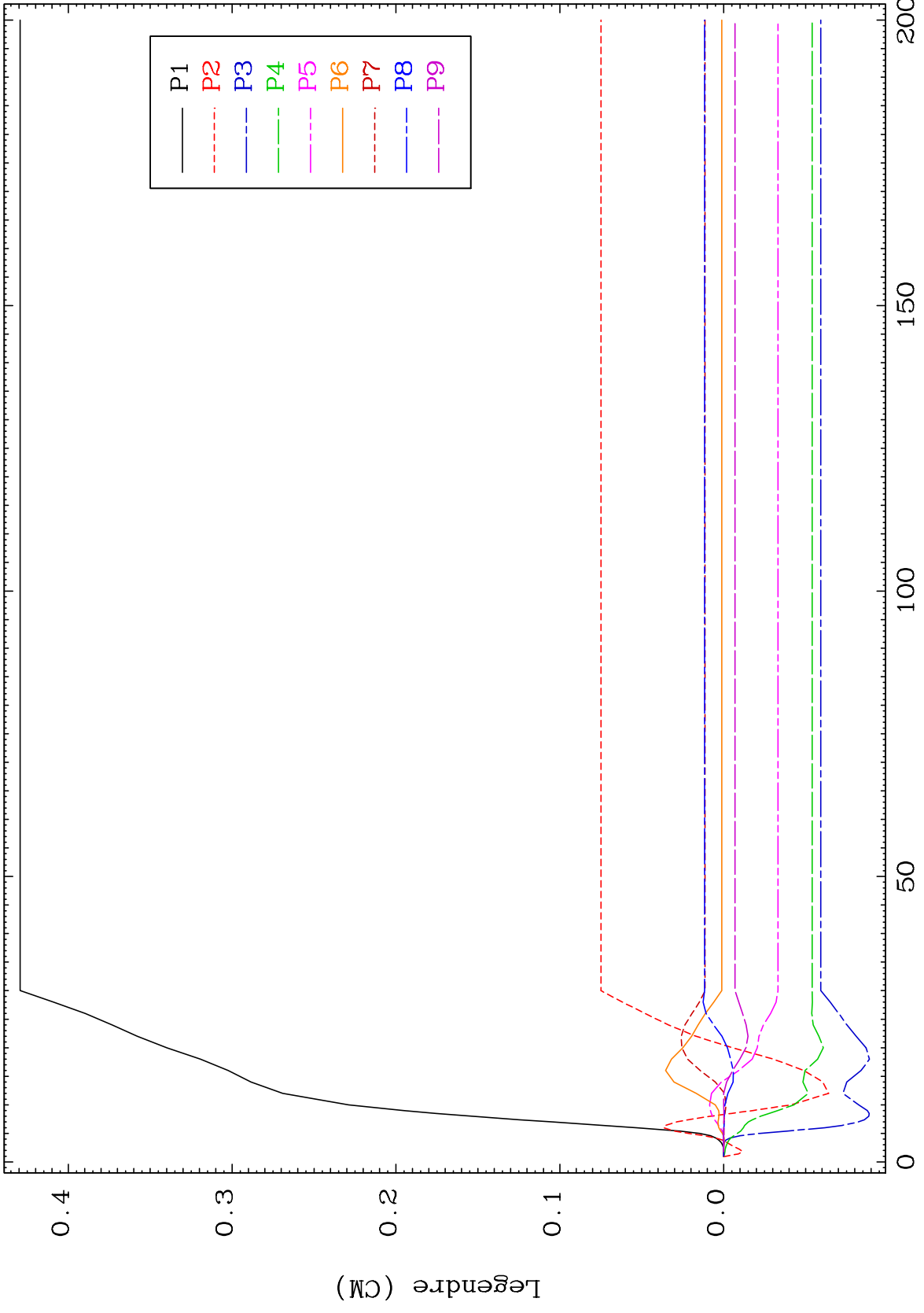
Incident Energy (MeV)

67

MAT 6140

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

61-Pm-144



68

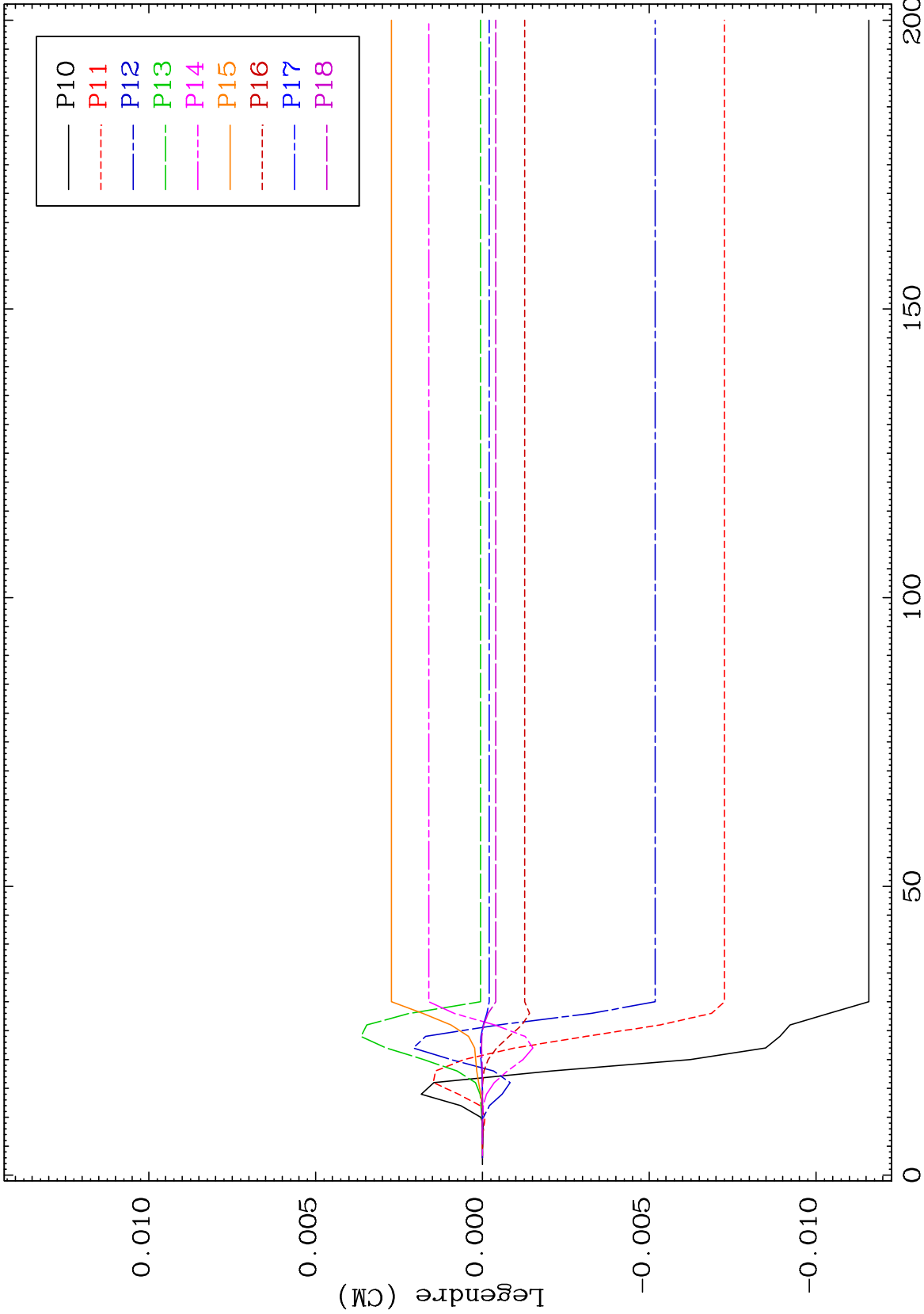
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144

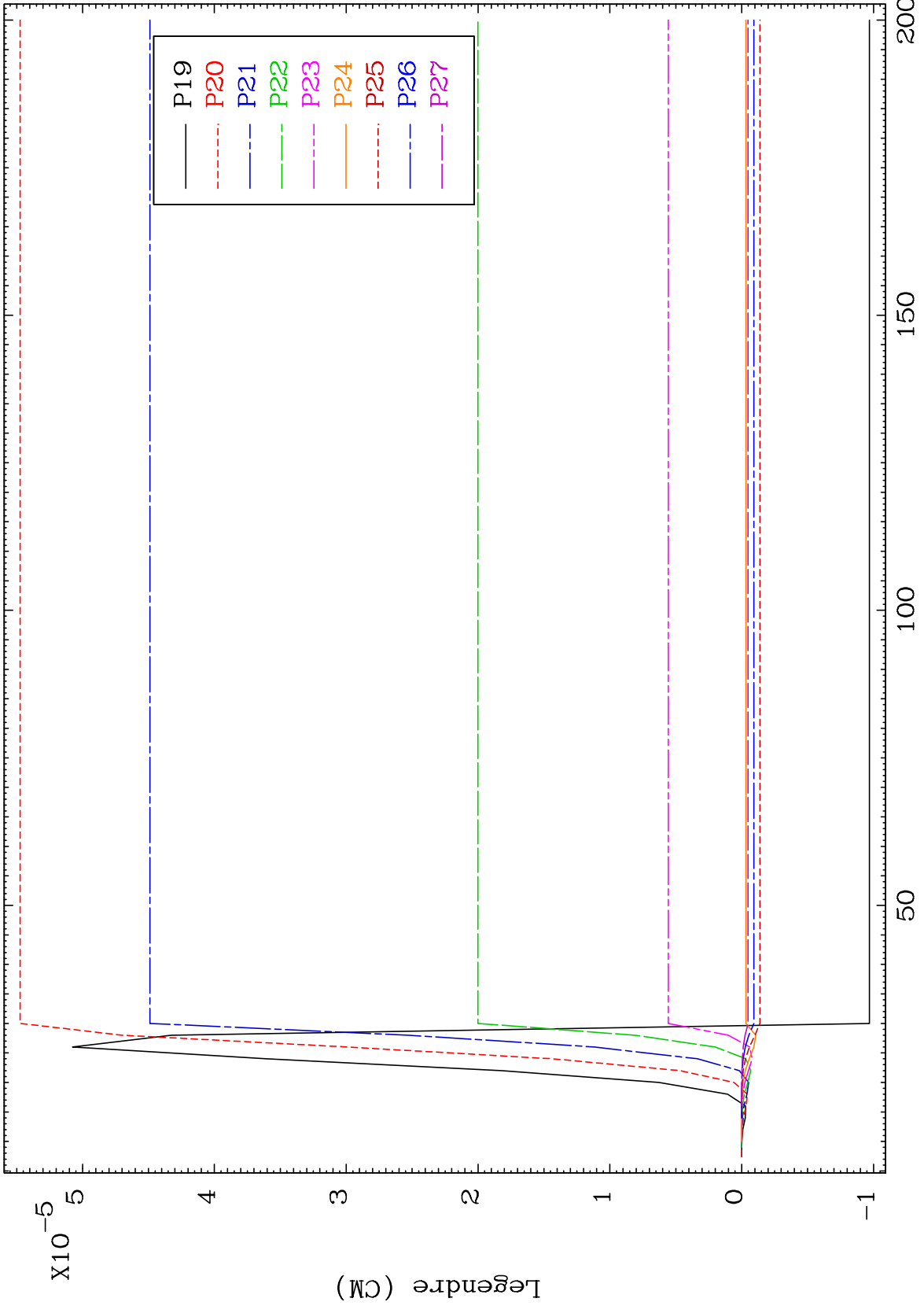


69

Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 65 (n,n') Level Legendre Coefficients 61-Pm-144

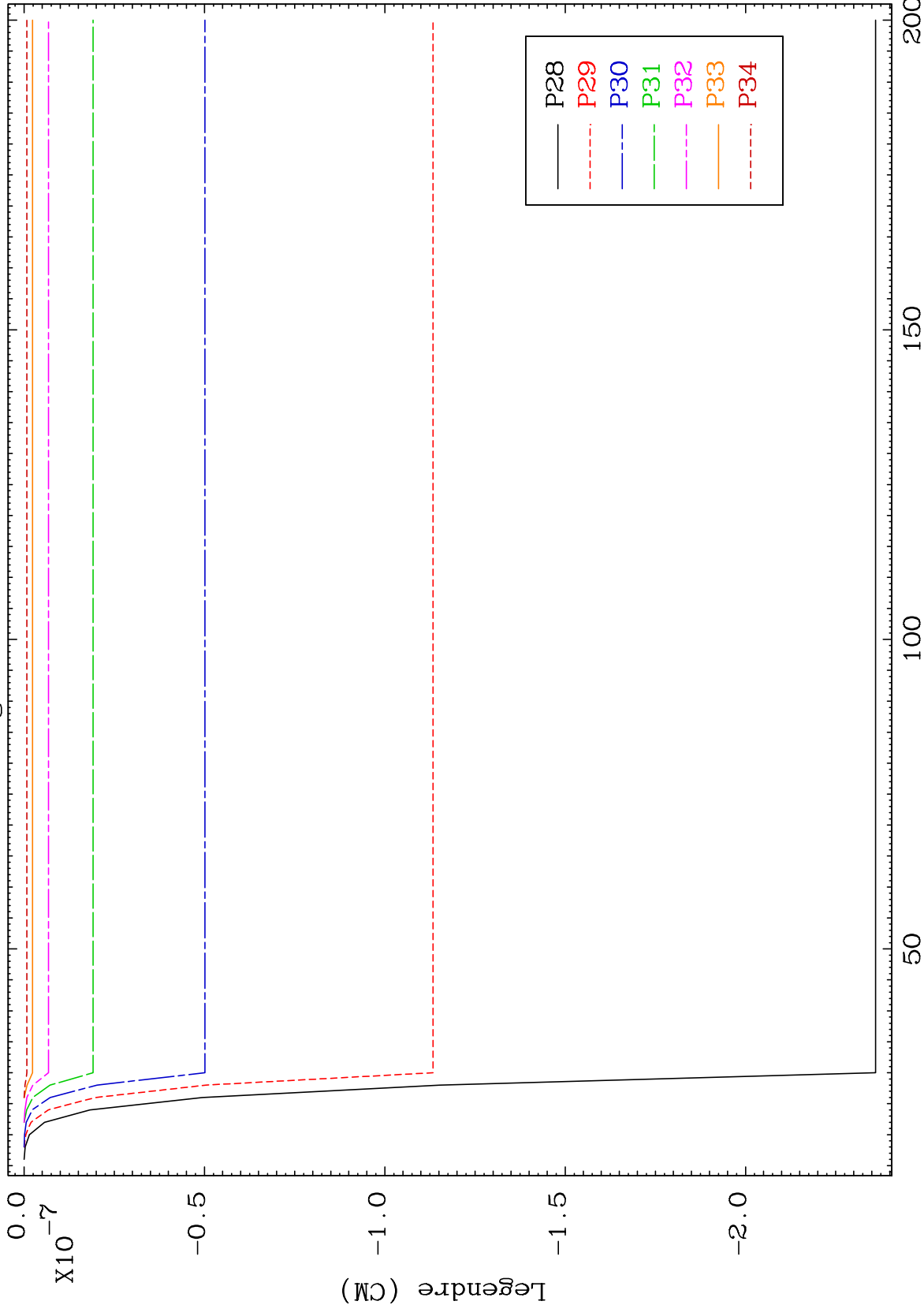


70 Incident Energy (MeV) 61-Pm-144

MAT 6140

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

61-Pm-144



61-Pm-144

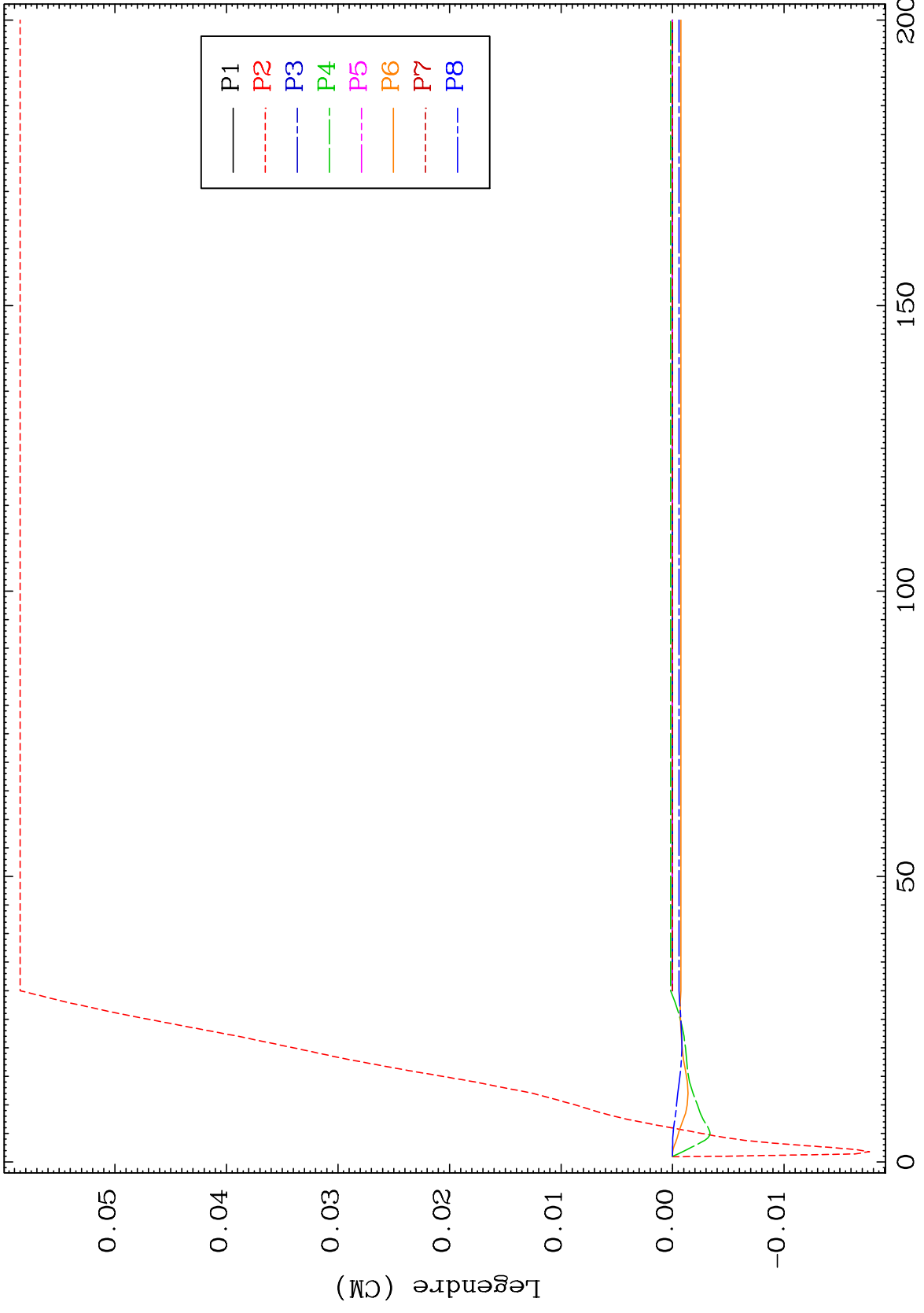
Incident Energy (MeV)

71

MAT 6140

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

61-Pm-144



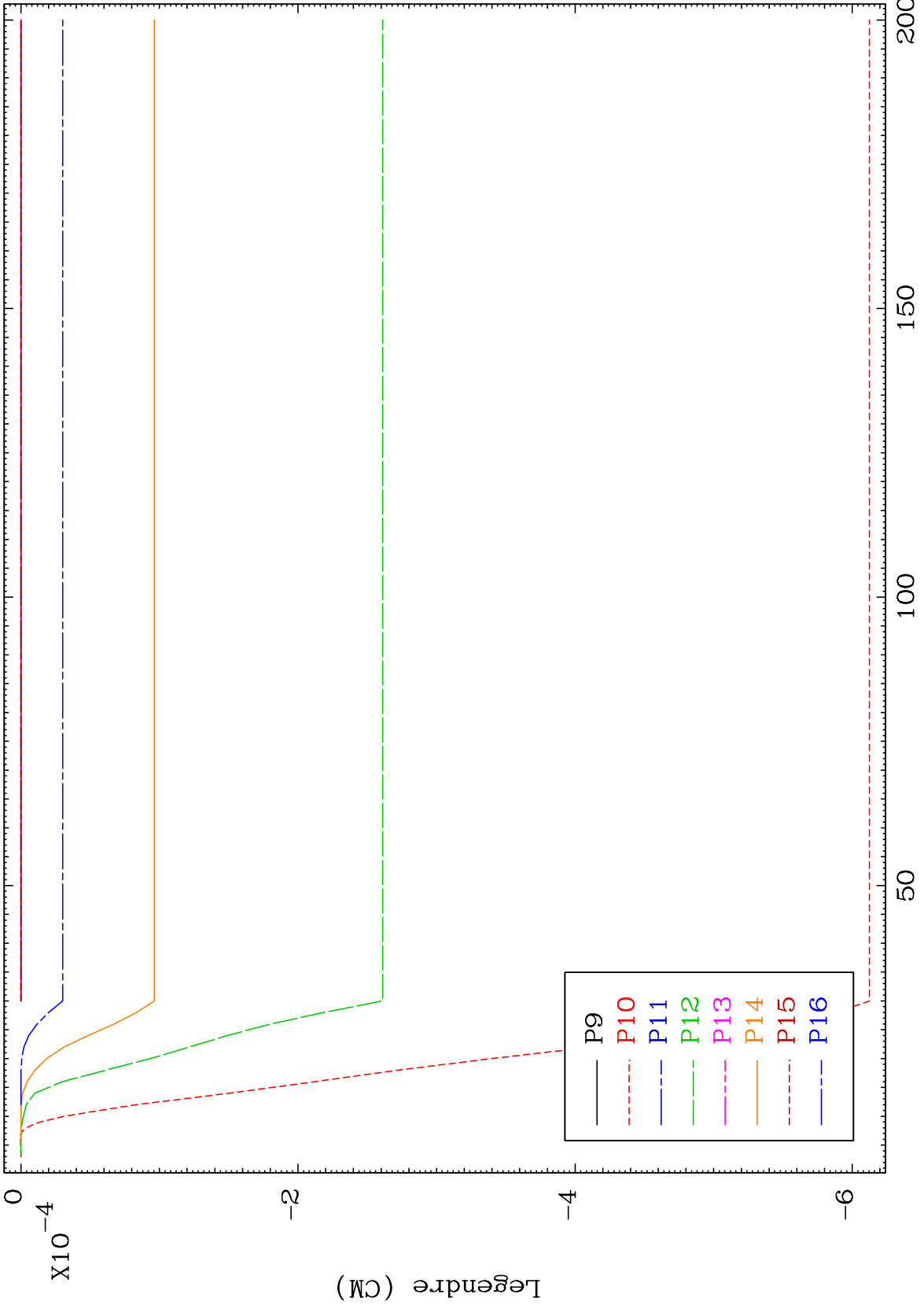
72

Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 66 (n,n') Level 61-Pm-144

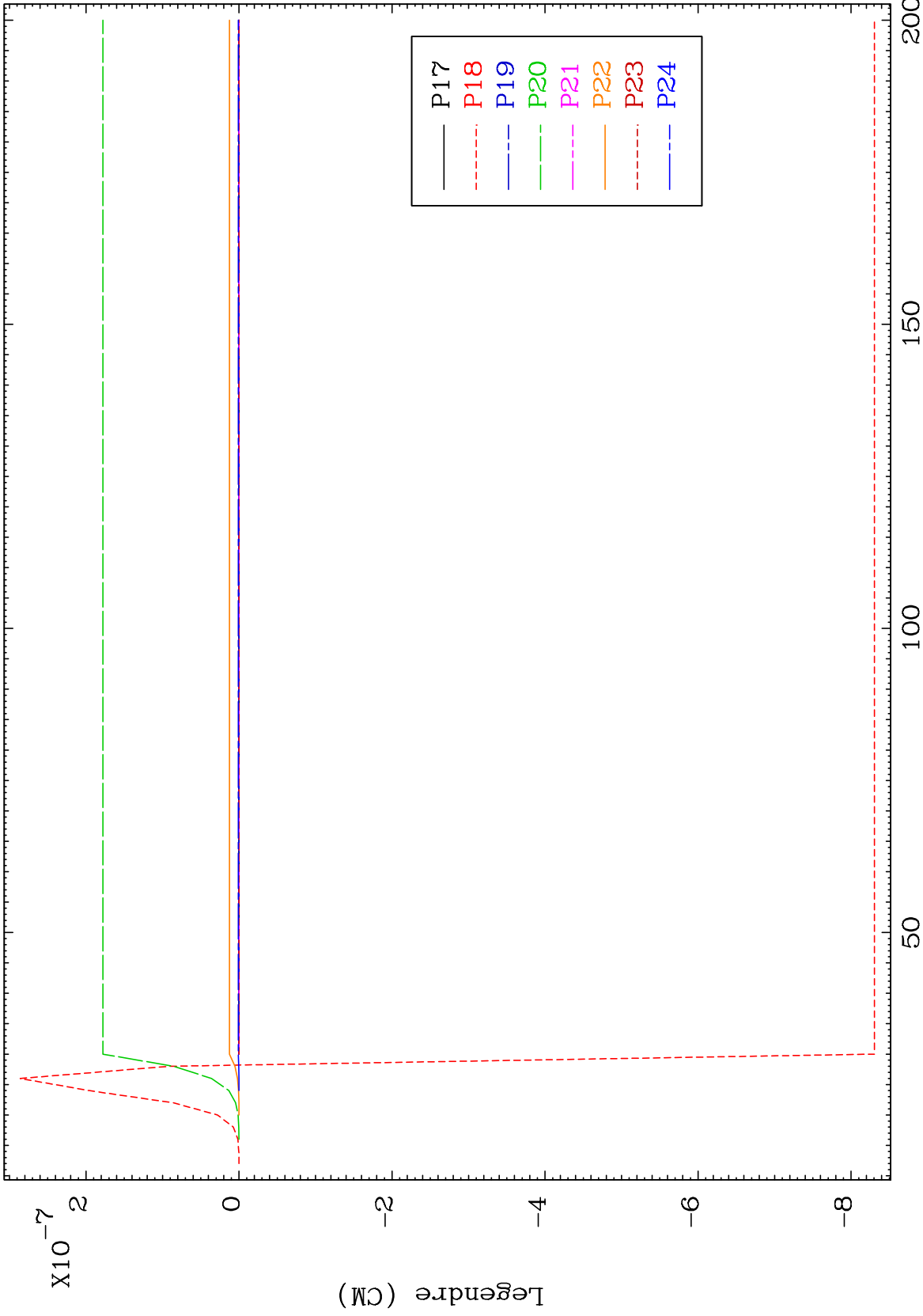
Legendre Coefficients



MAT 6140

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

61-Pm-144



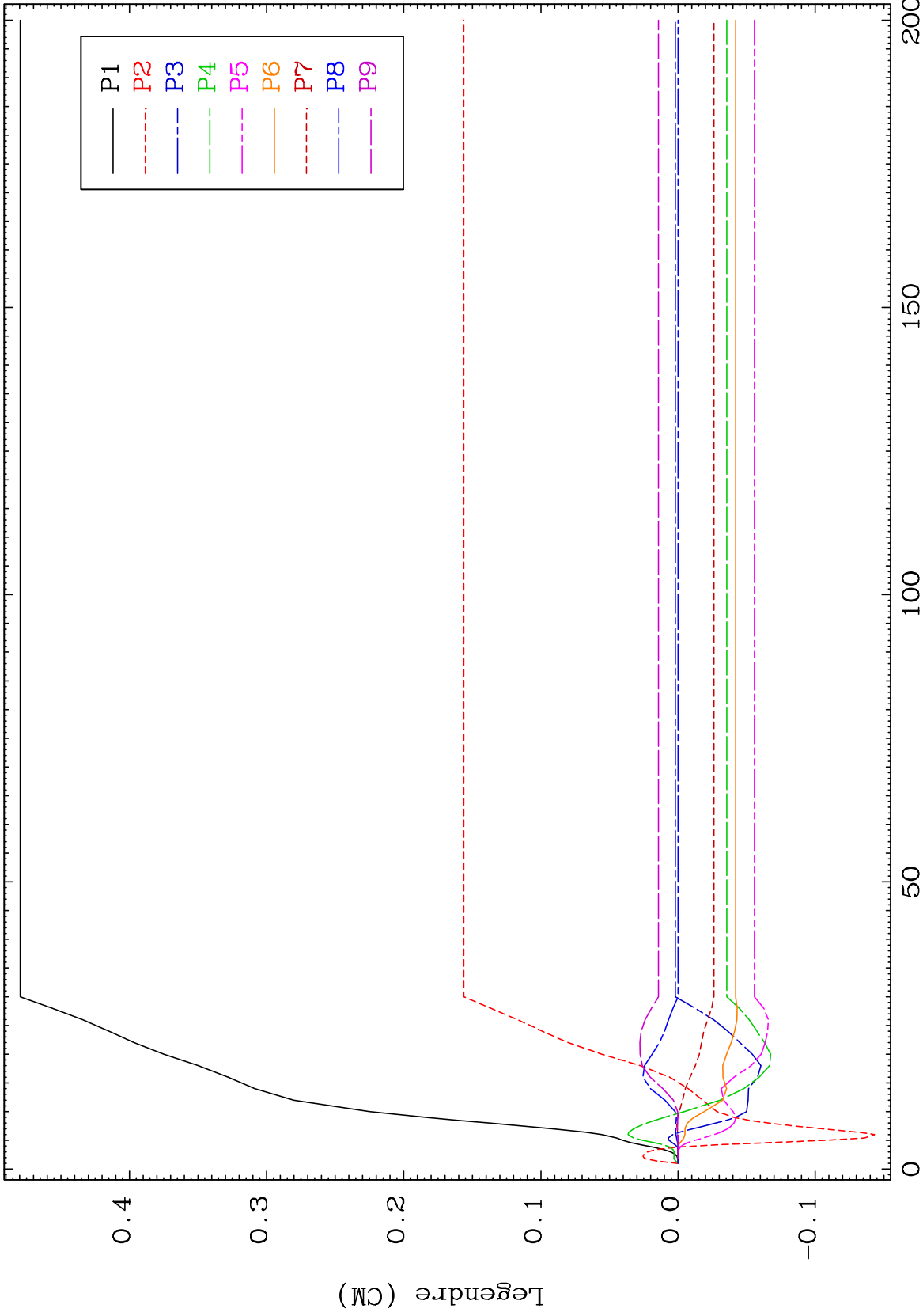
74

61-Pm-144

MAT 6140

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

61-Pm-144



75

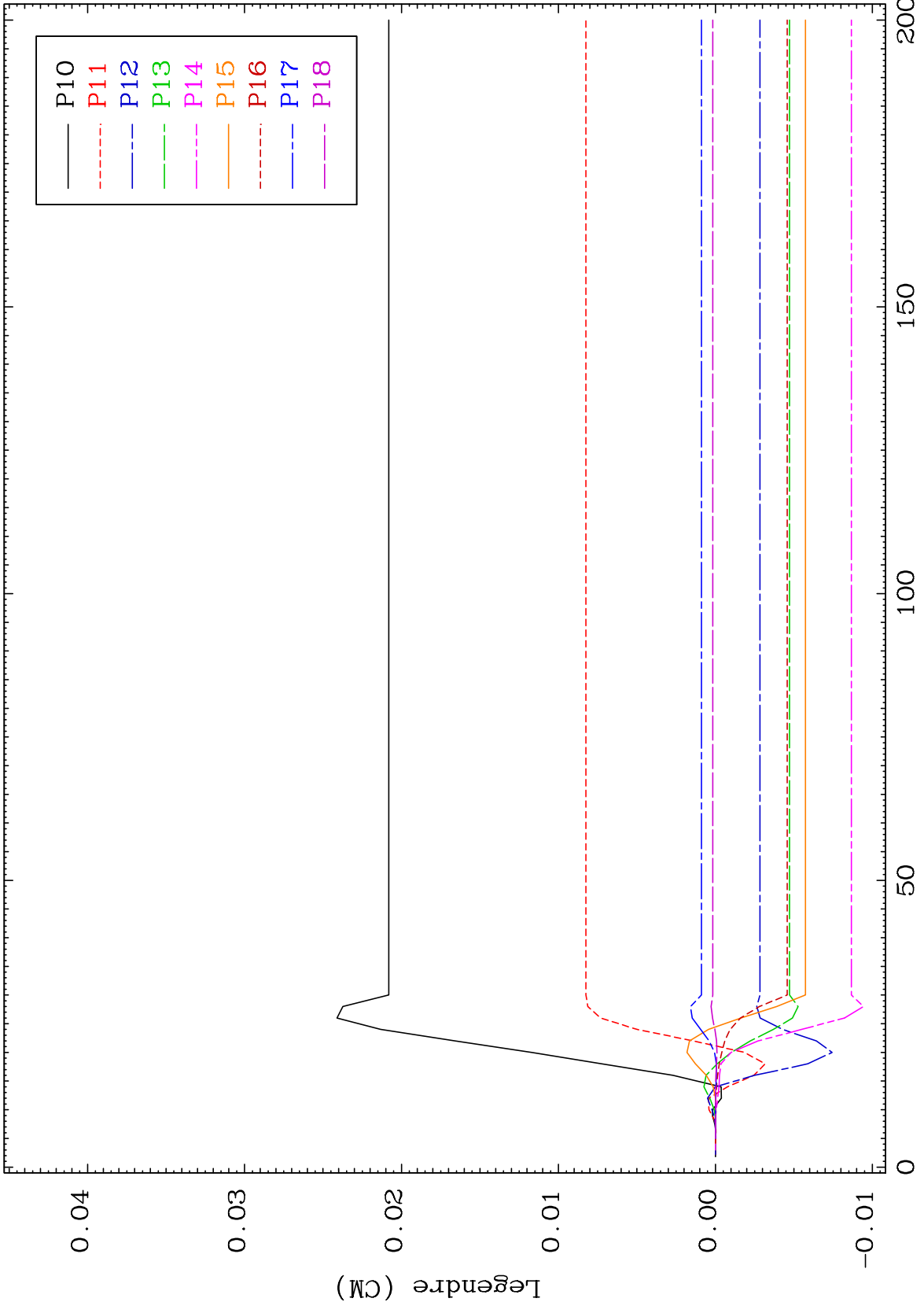
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



76

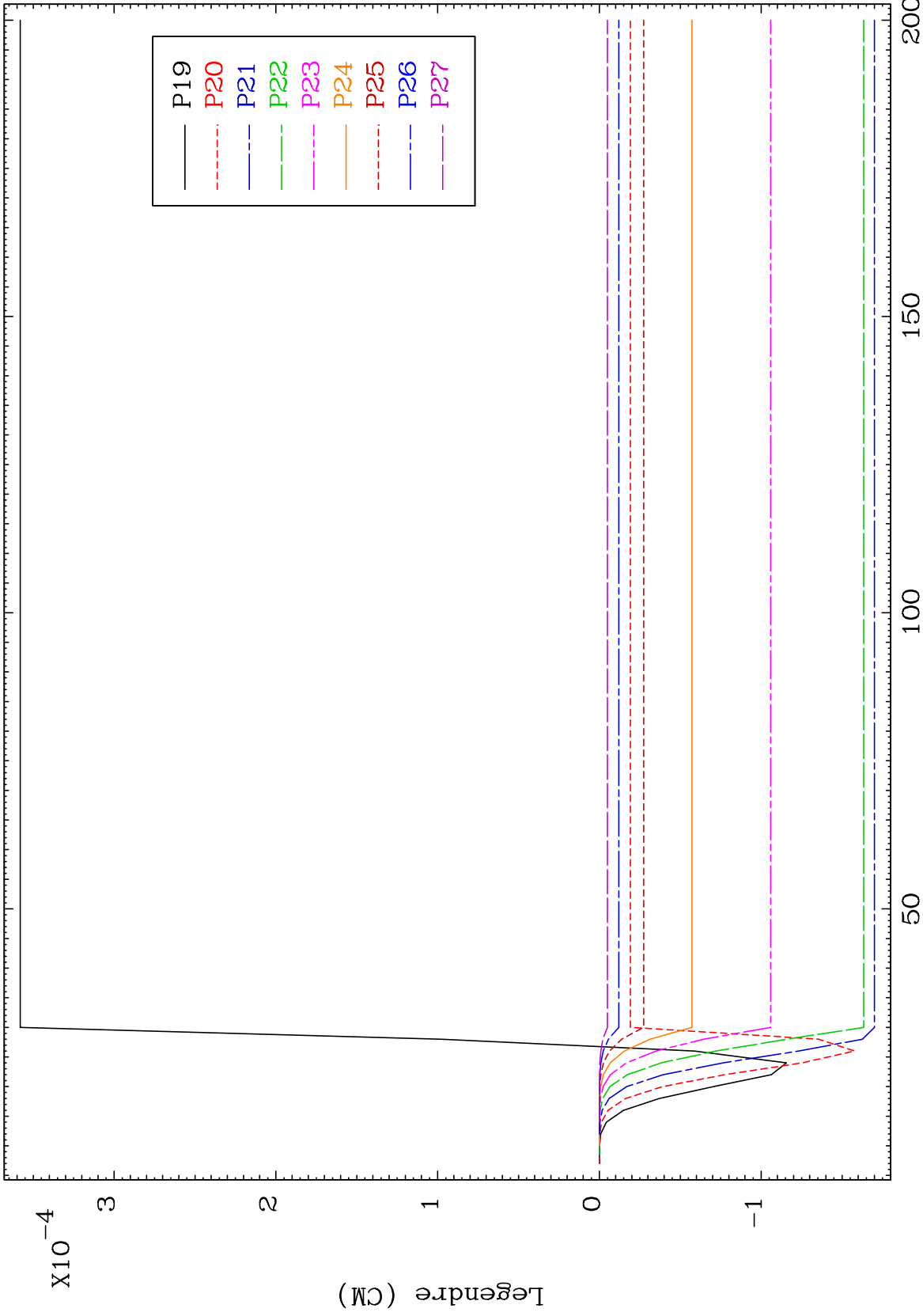
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



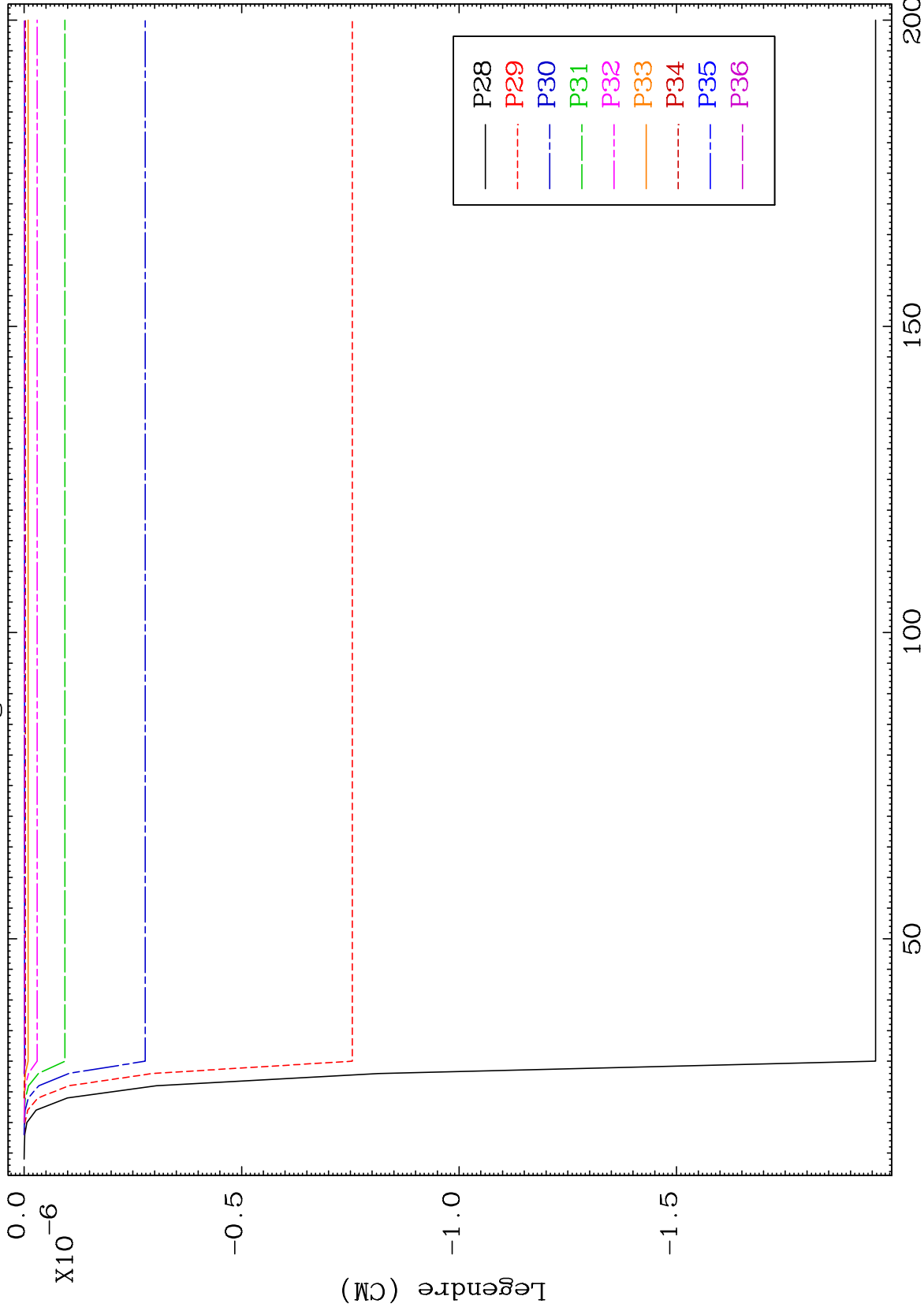
77

61-Pm-144

MAT 6140

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

61-Pm-144

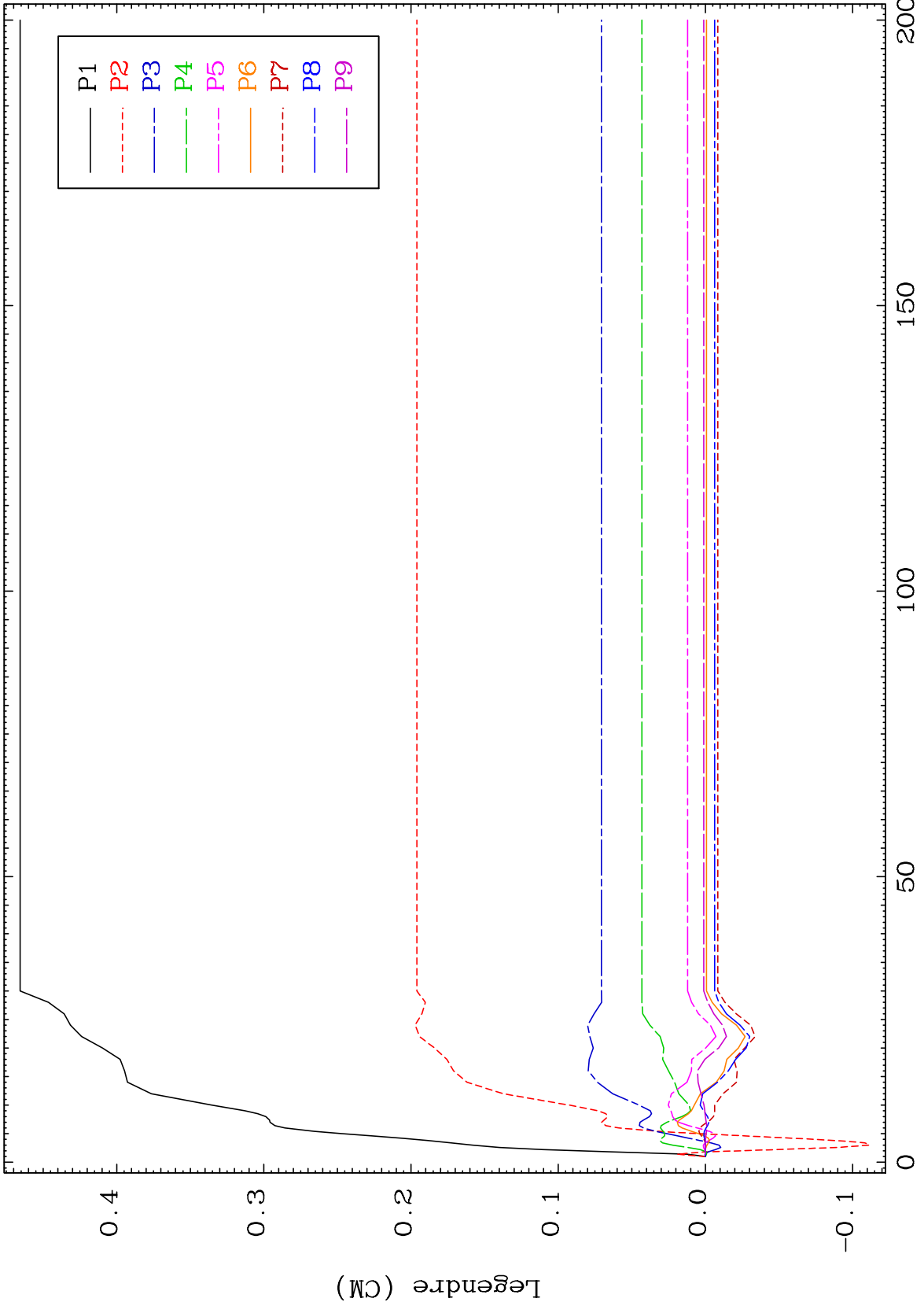


78

Incident Energy (MeV)

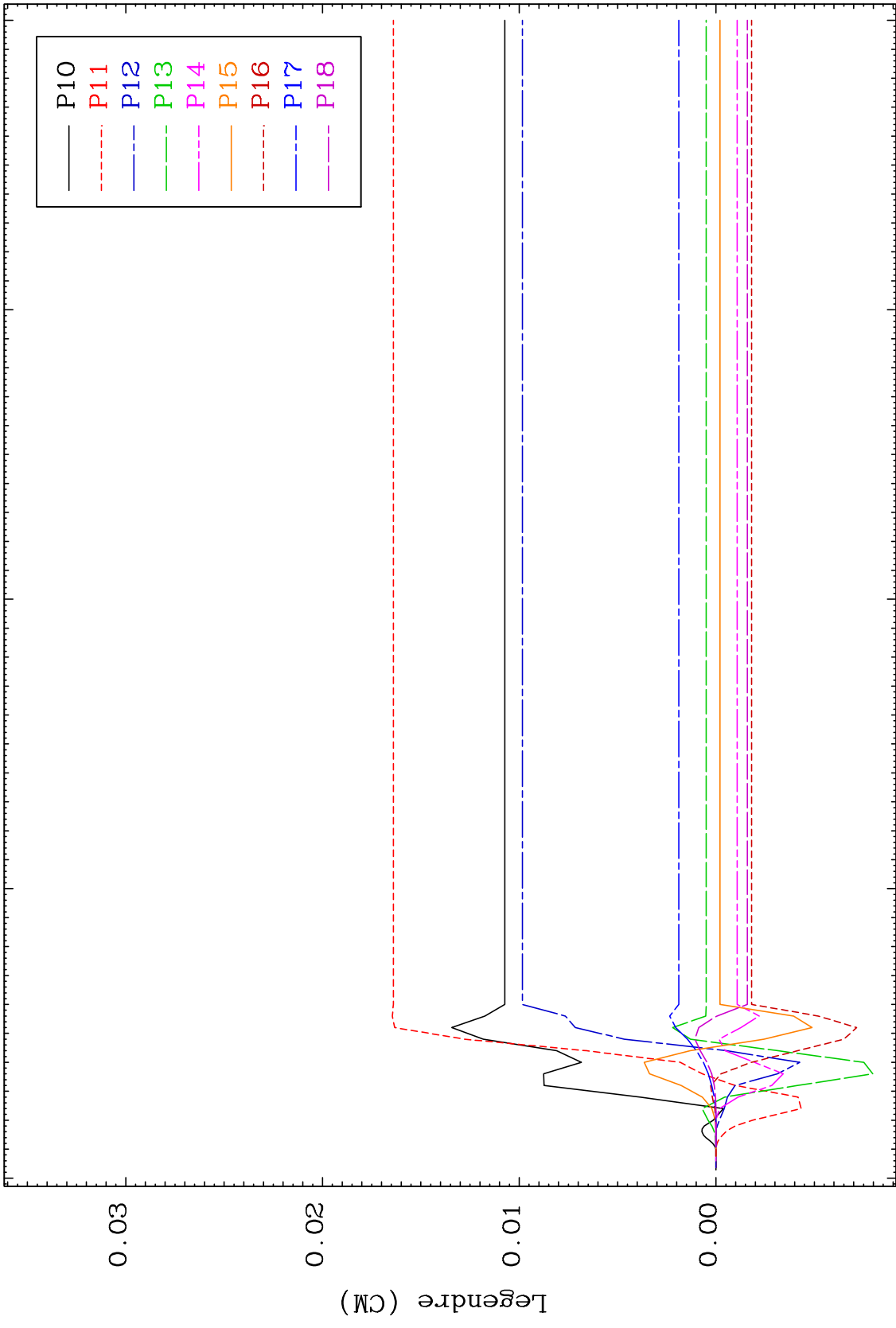
61-Pm-144

MAT 6140 MT= 68 (n,n') Level Legendre Coefficients 61-Pm-144



79 61-Pm-144

MAT 6140 MT= 68 (n,n') Level Legendre Coefficients 61-Pm-144

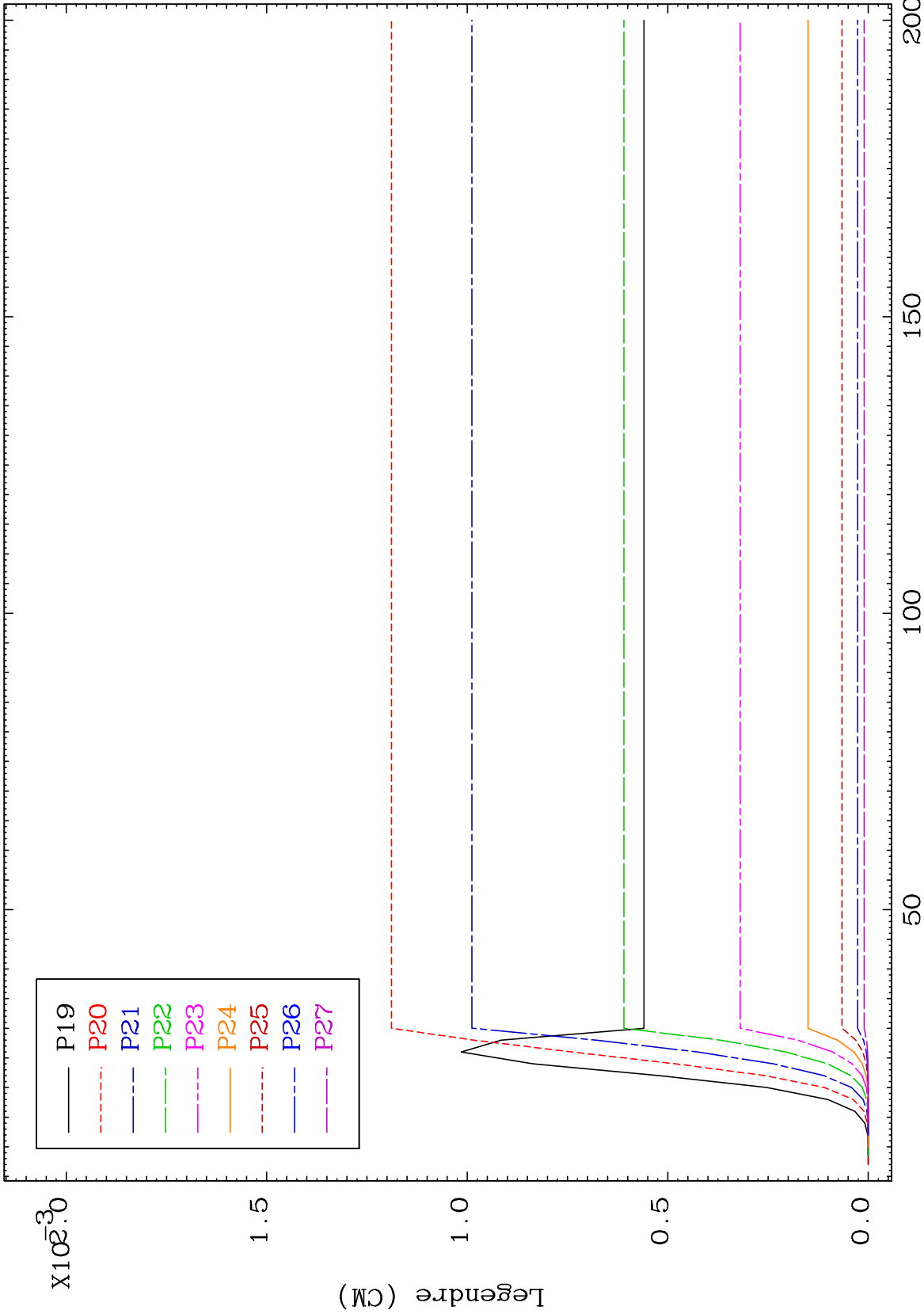


Legendre (CM) Incident Energy (MeV) 61-Pm-144

MAT 6140

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

61-Pm-144



81

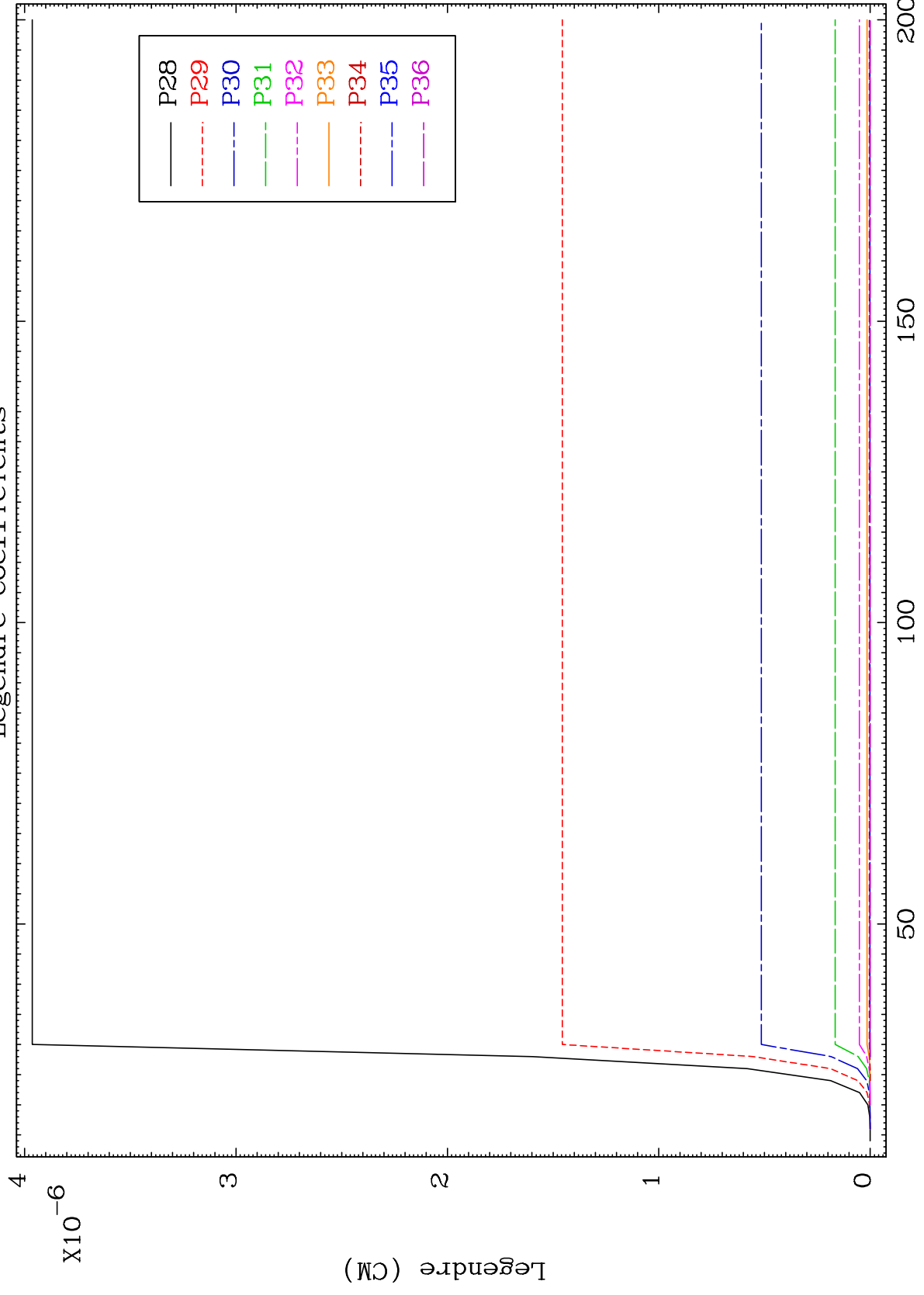
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



82

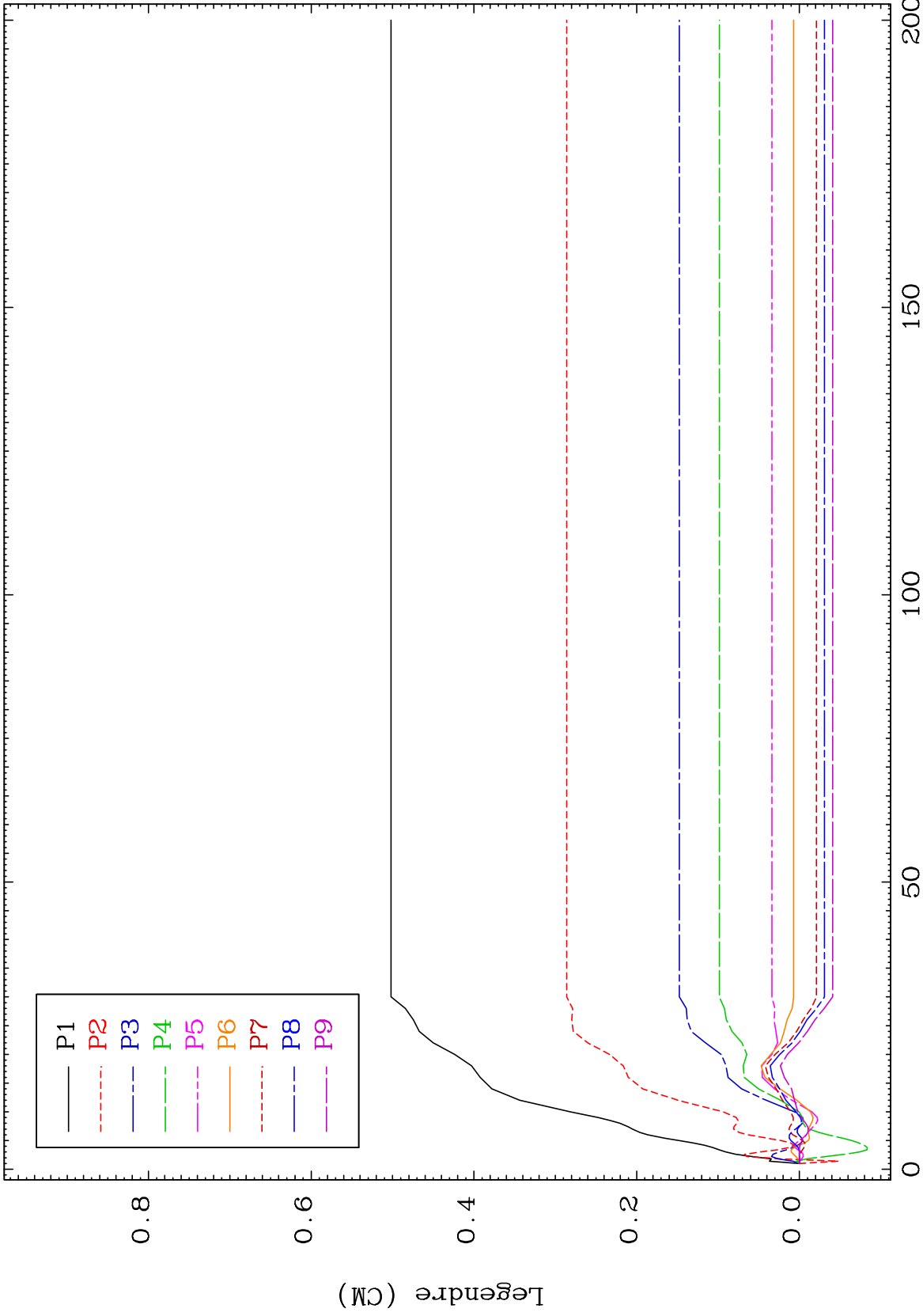
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144

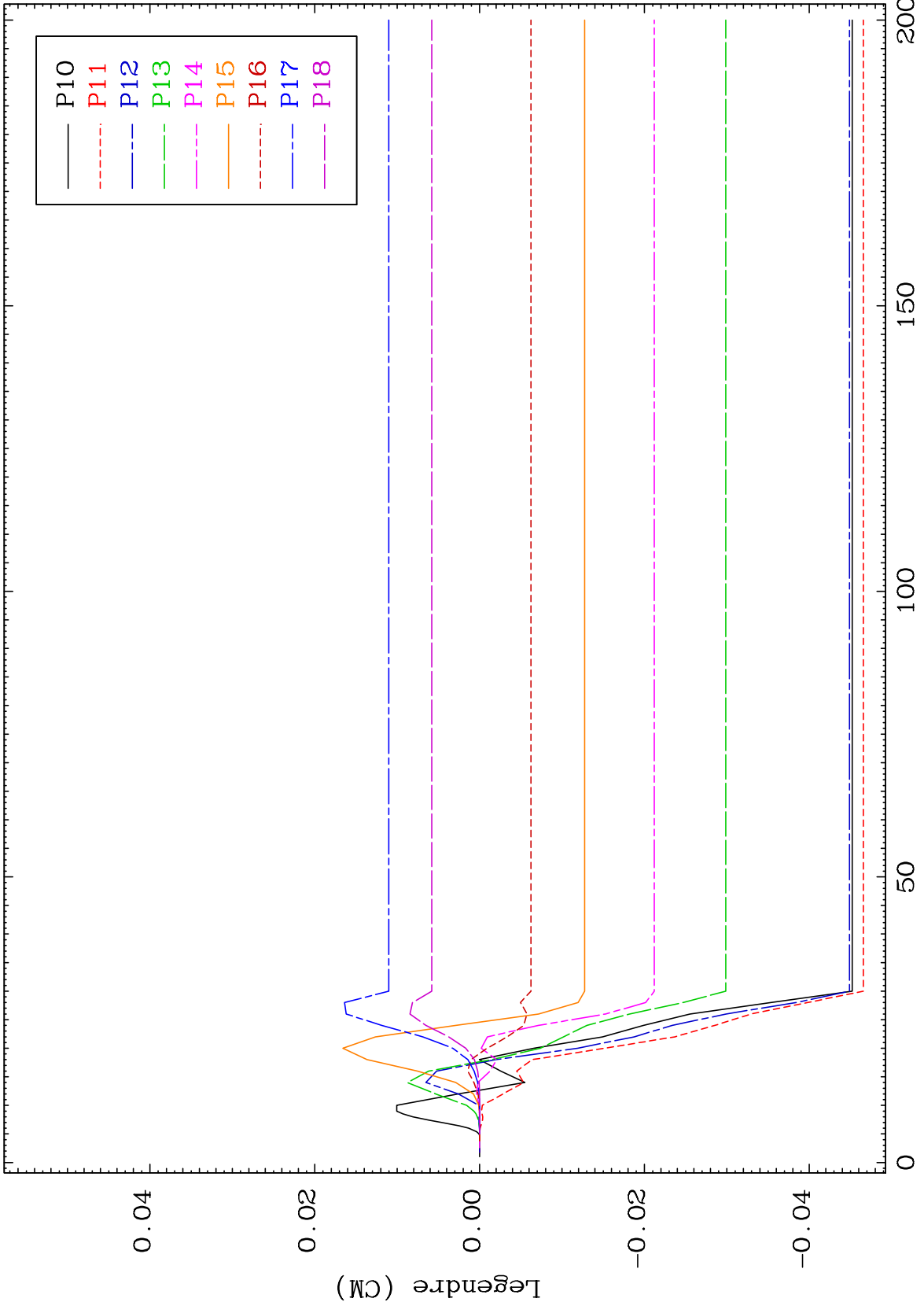


83

Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 69 (n,n') Level Legendre Coefficients 61-Pm-144

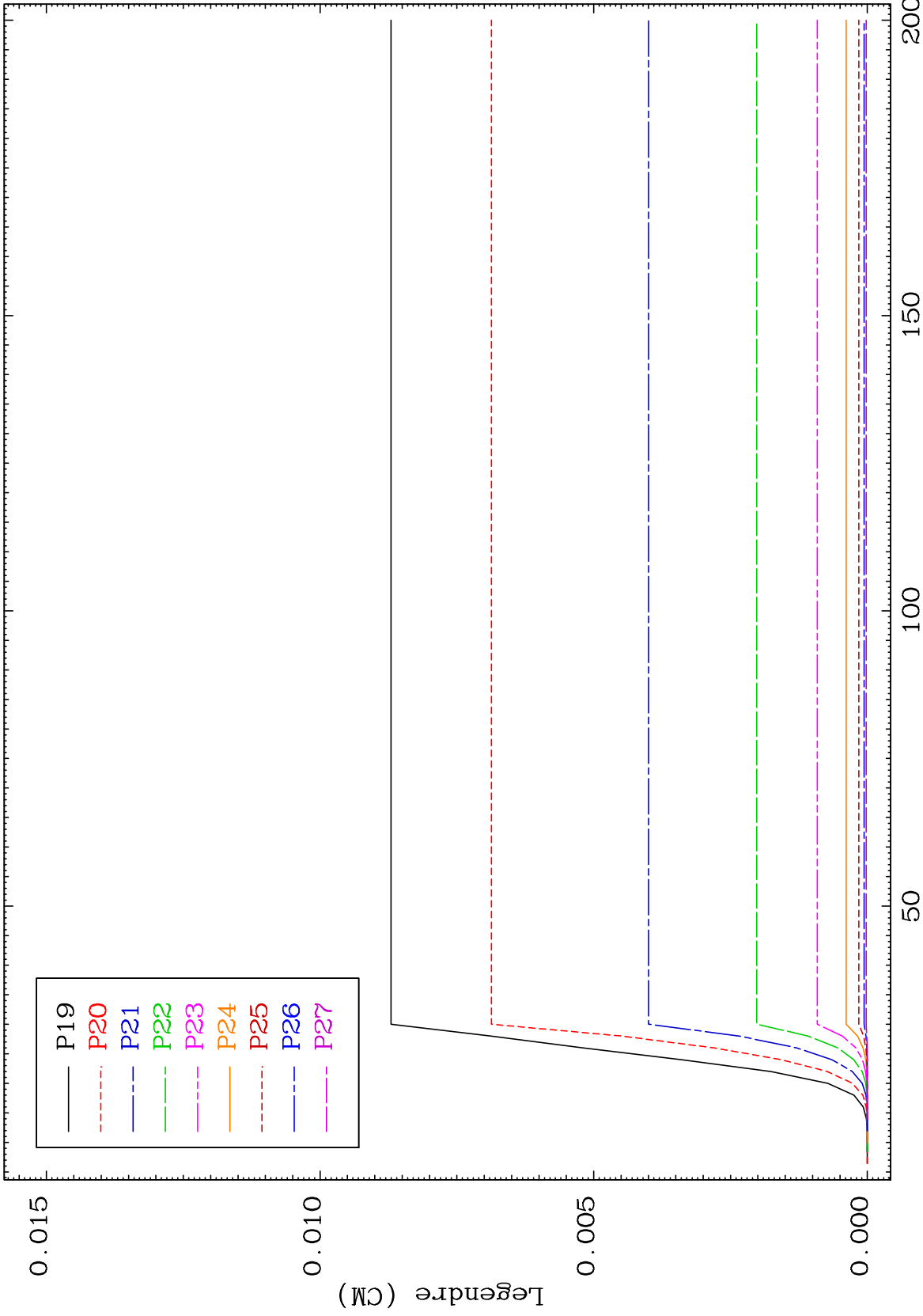


84 61-Pm-144

MAT 6140

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

61-Pm-144



85

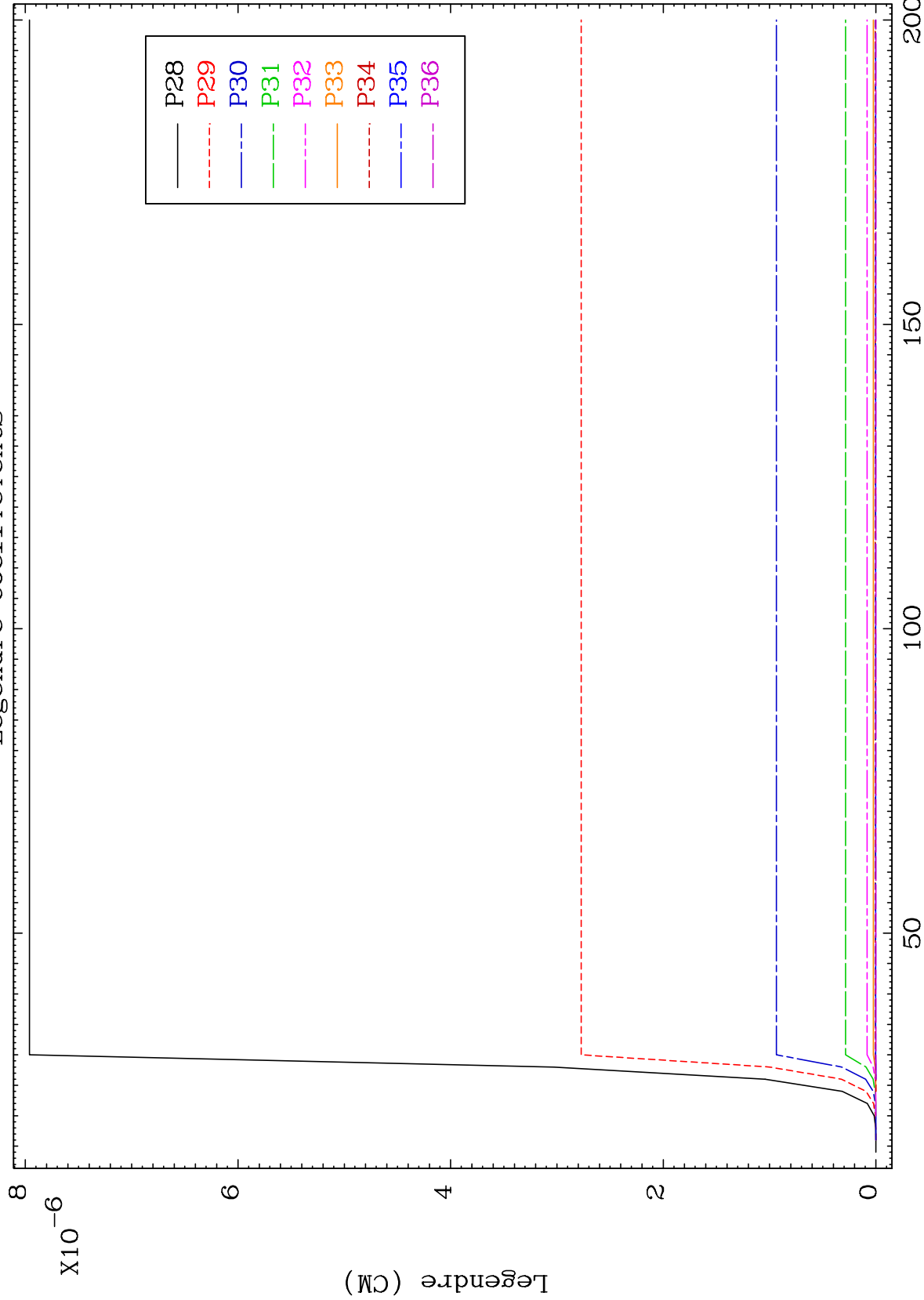
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



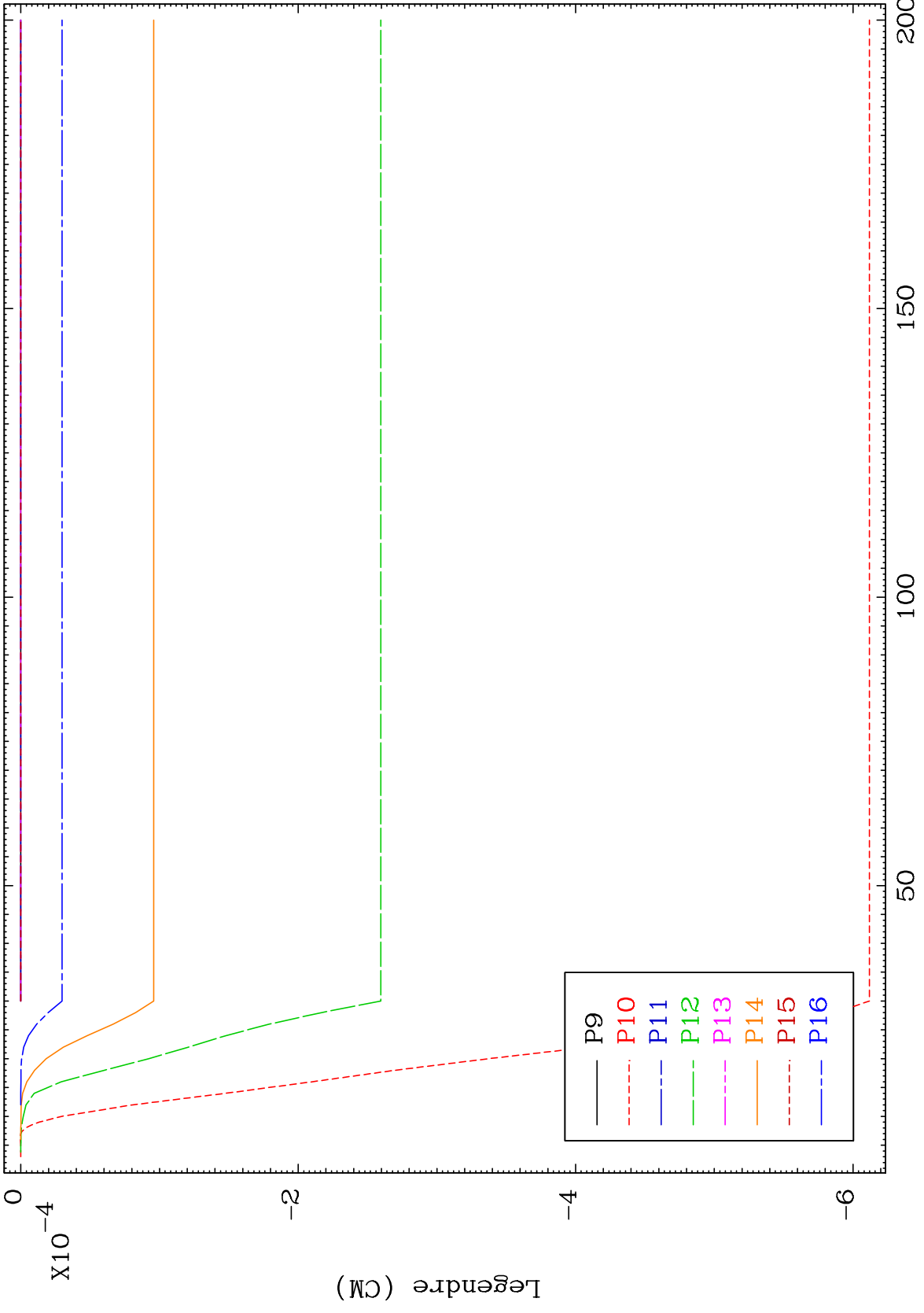
86

Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 70 (n,n') Level 61-Pm-144

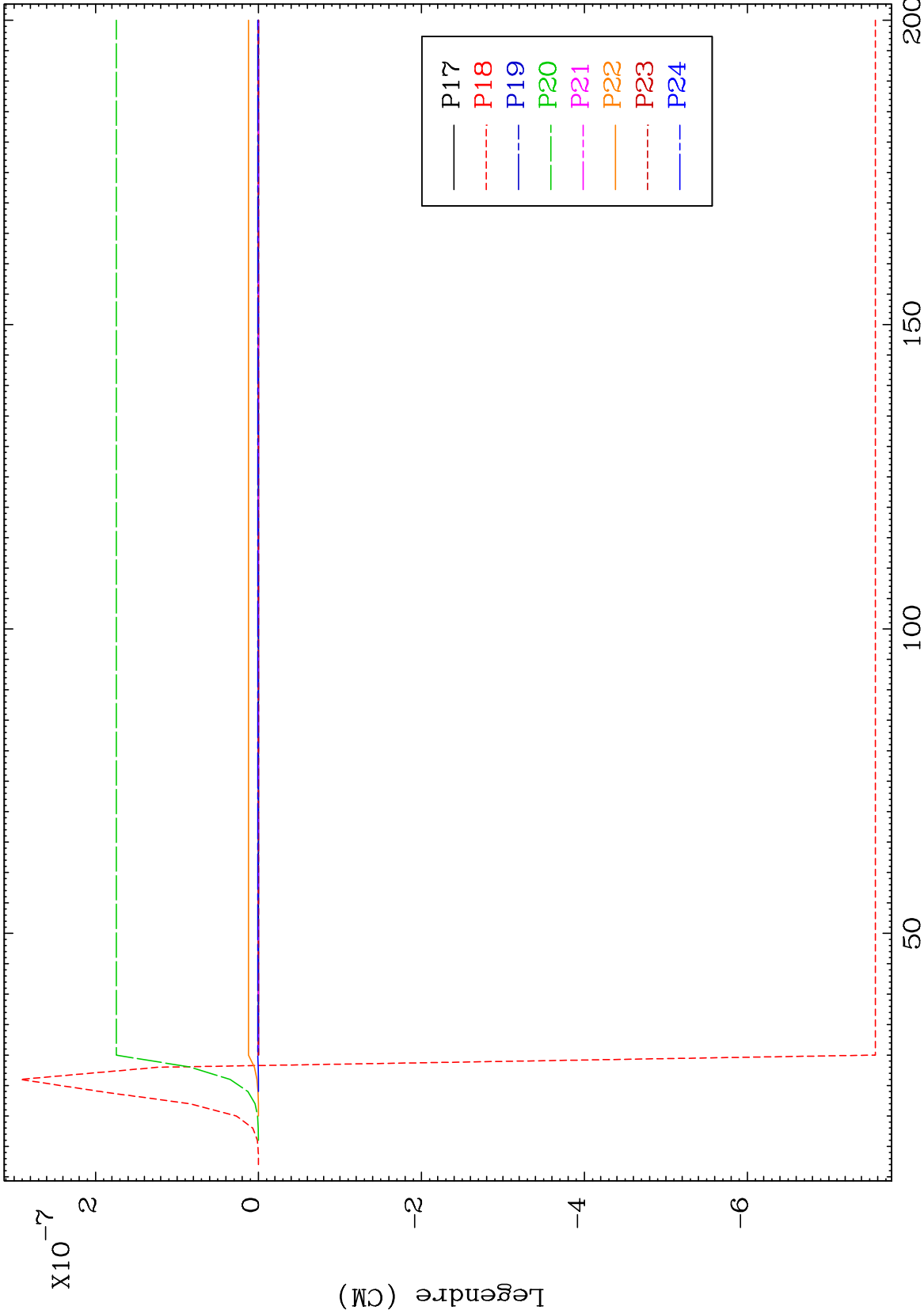
Legendre Coefficients



MAT 6140

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

61-Pm-144

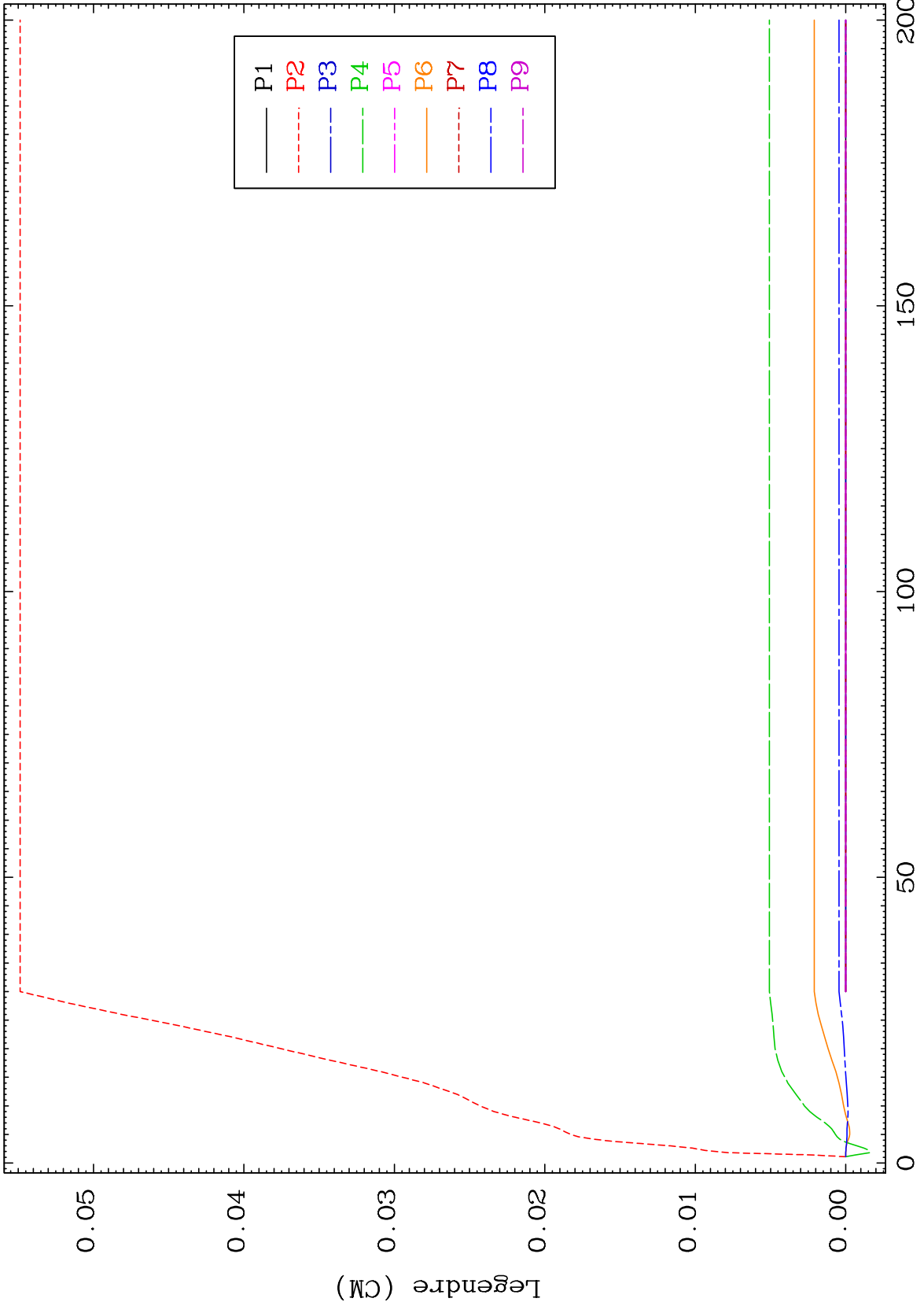


89

Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 71 (n,n') Level Legendre Coefficients 61-Pm-144

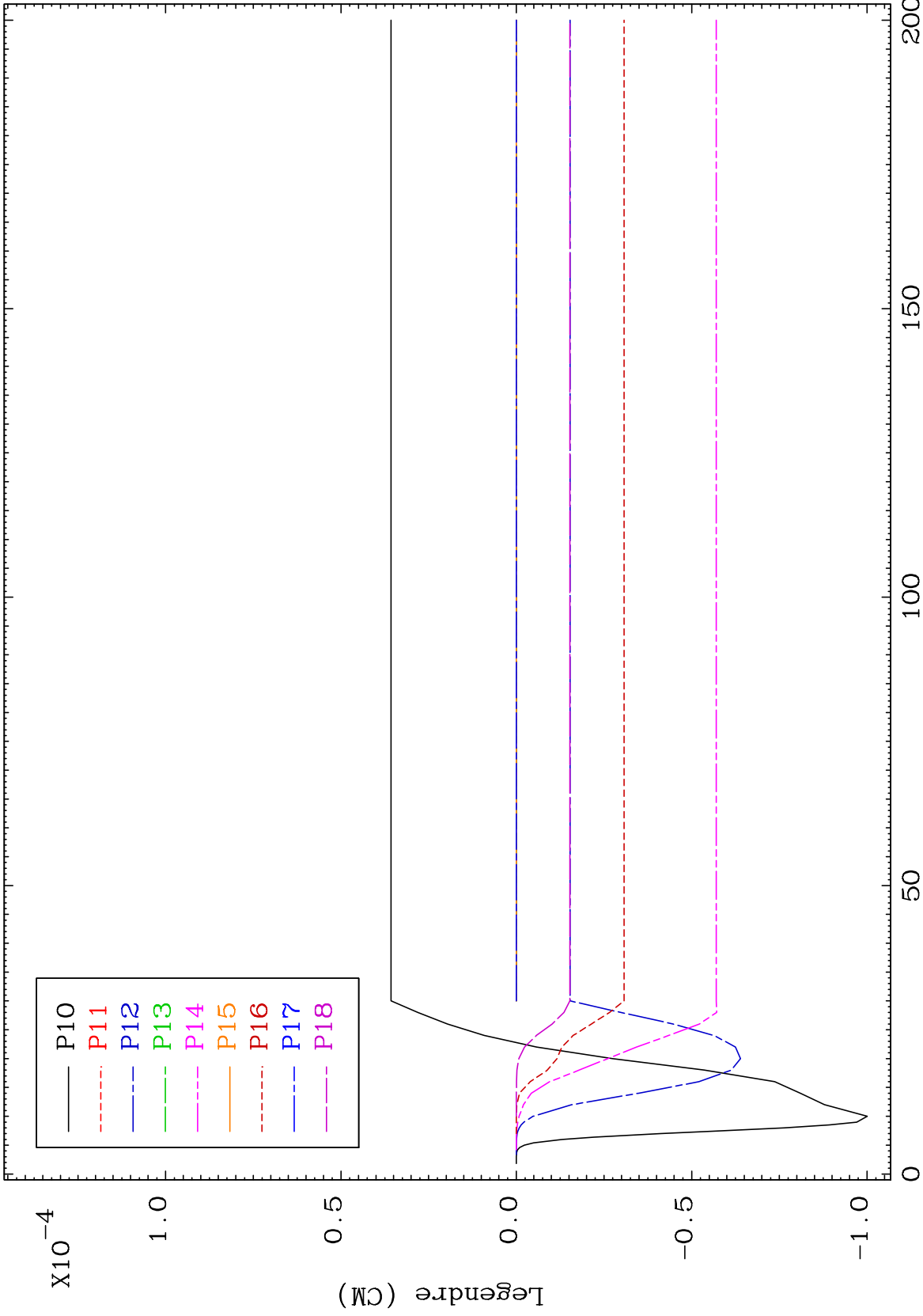


61-Pm-144

MAT 6140

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

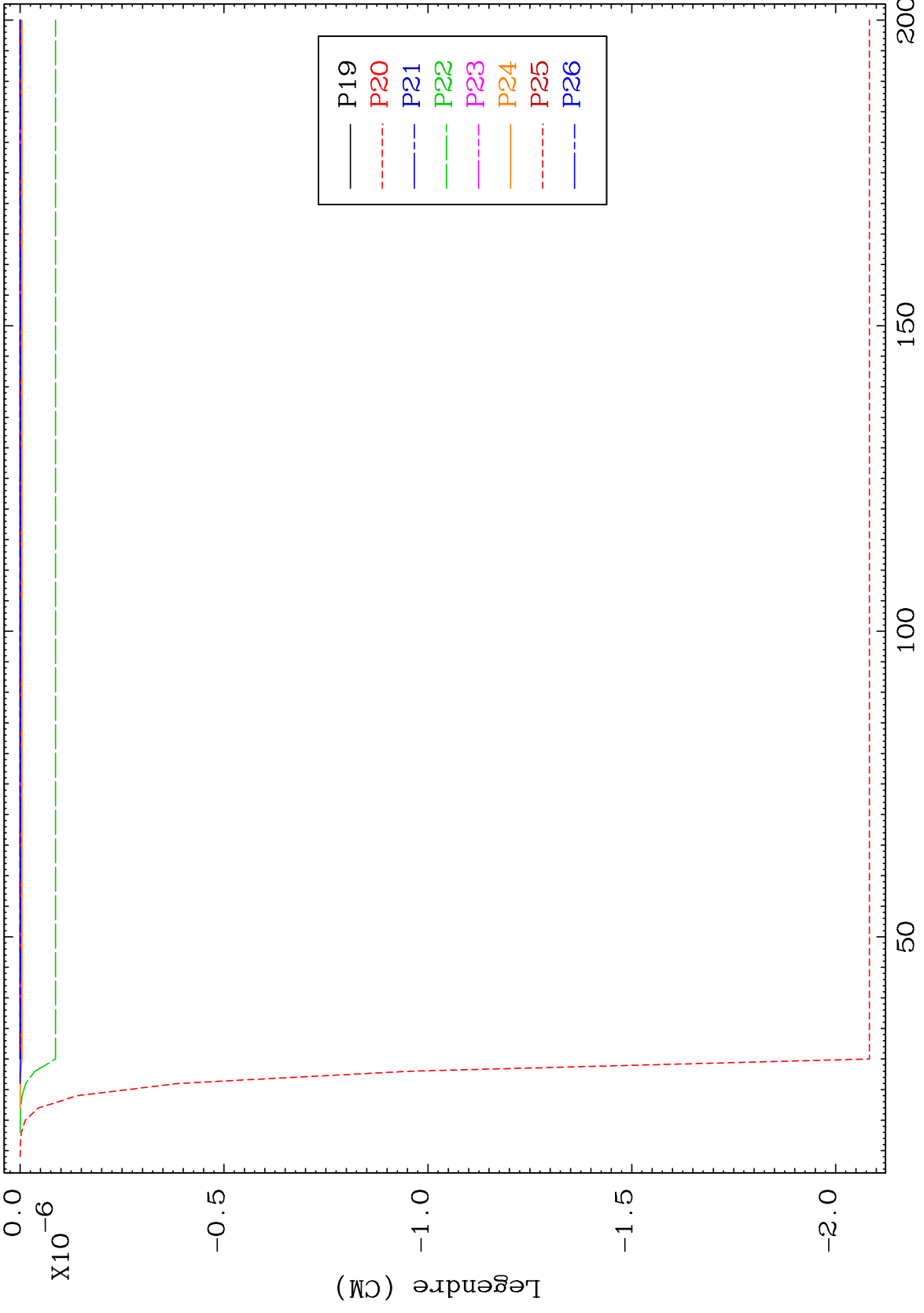
61-Pm-144



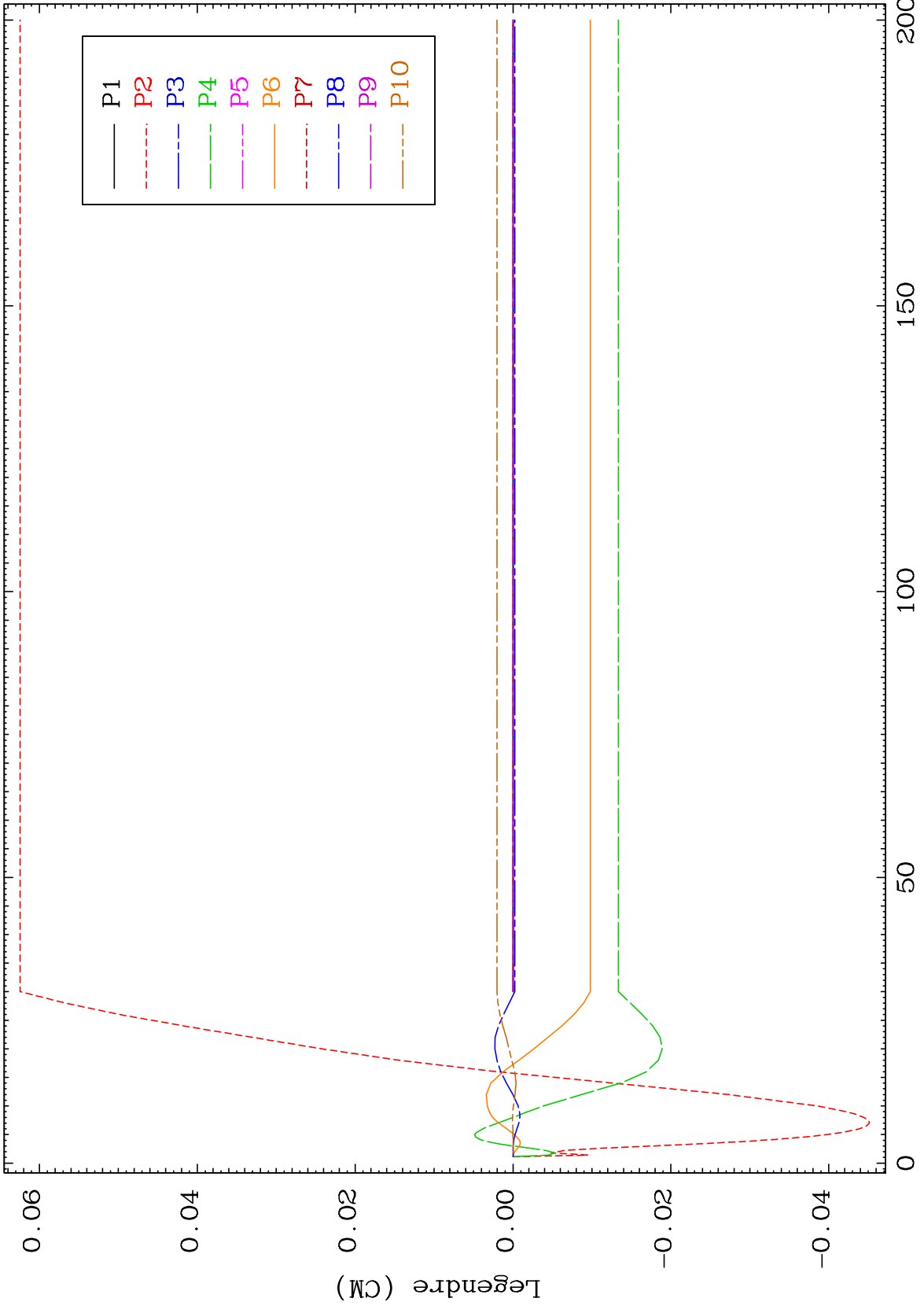
91

61-Pm-144

MAT 6140 MT= 71 (n,n') Level Legendre Coefficients 61-Pm-144



MAT 6140 MT= 72 (n,n') Level Legendre Coefficients 61-Pm-144

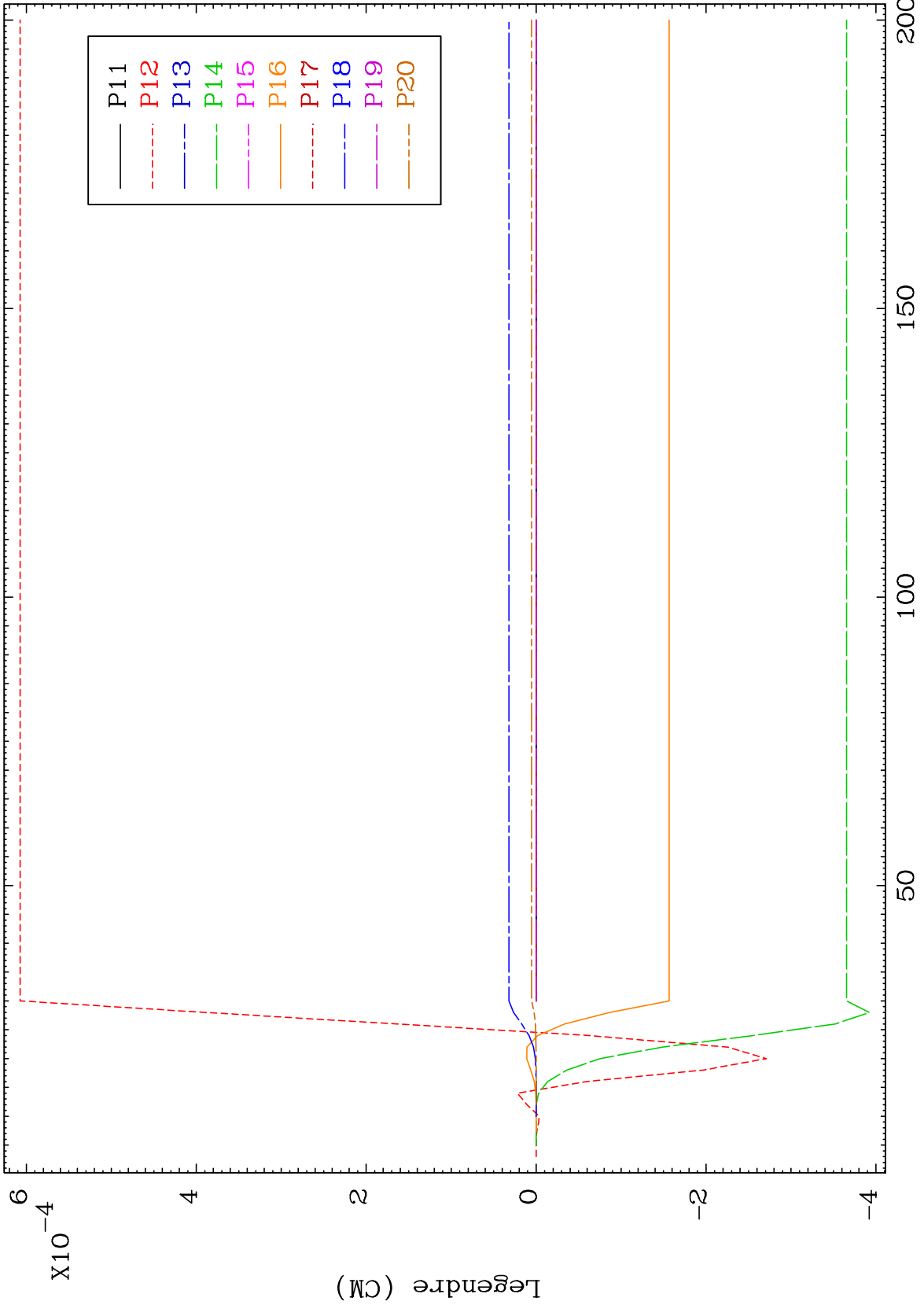


93 61-Pm-144

MAT 6140

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

61-Pm-144

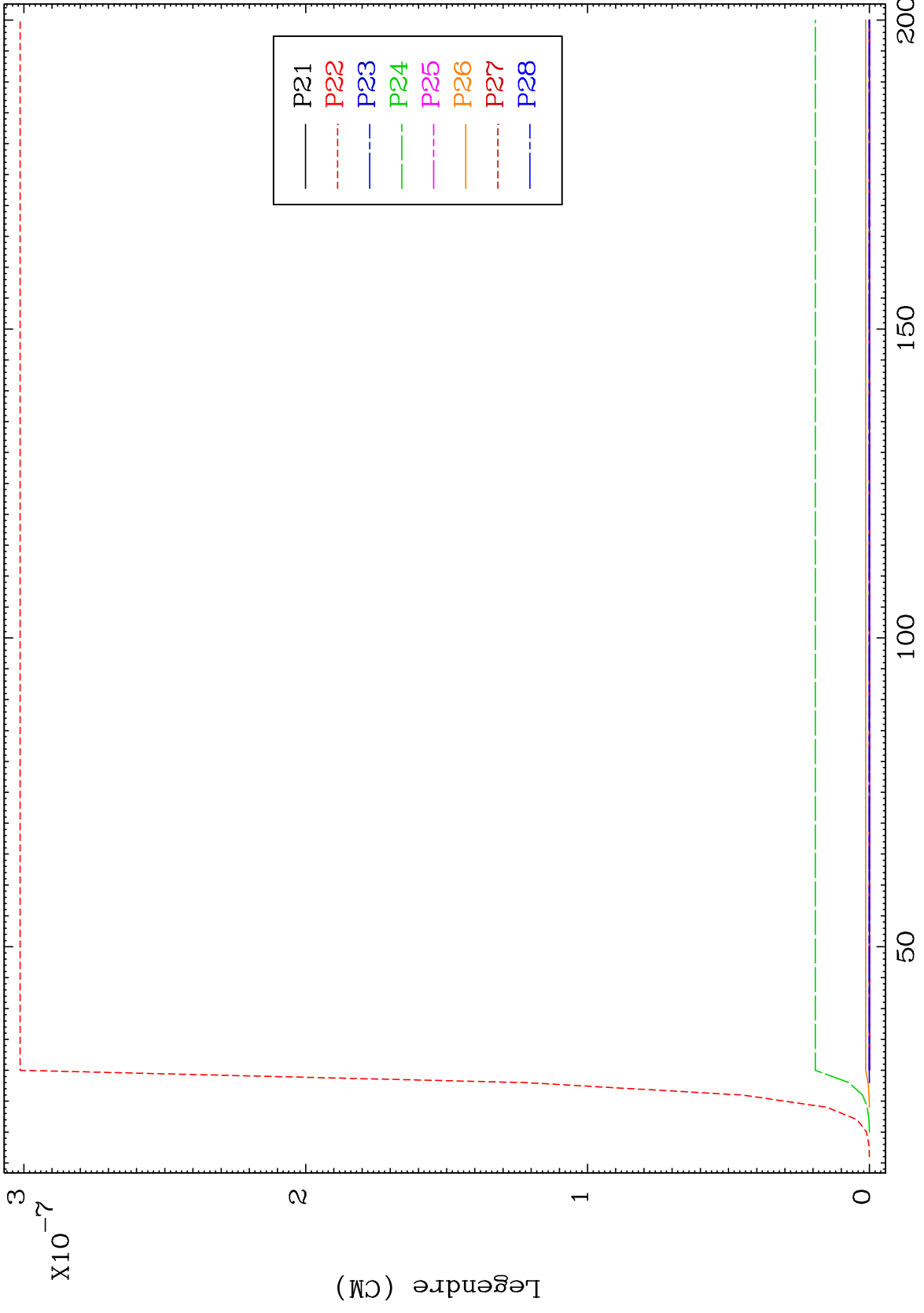


94

Incident Energy (MeV)

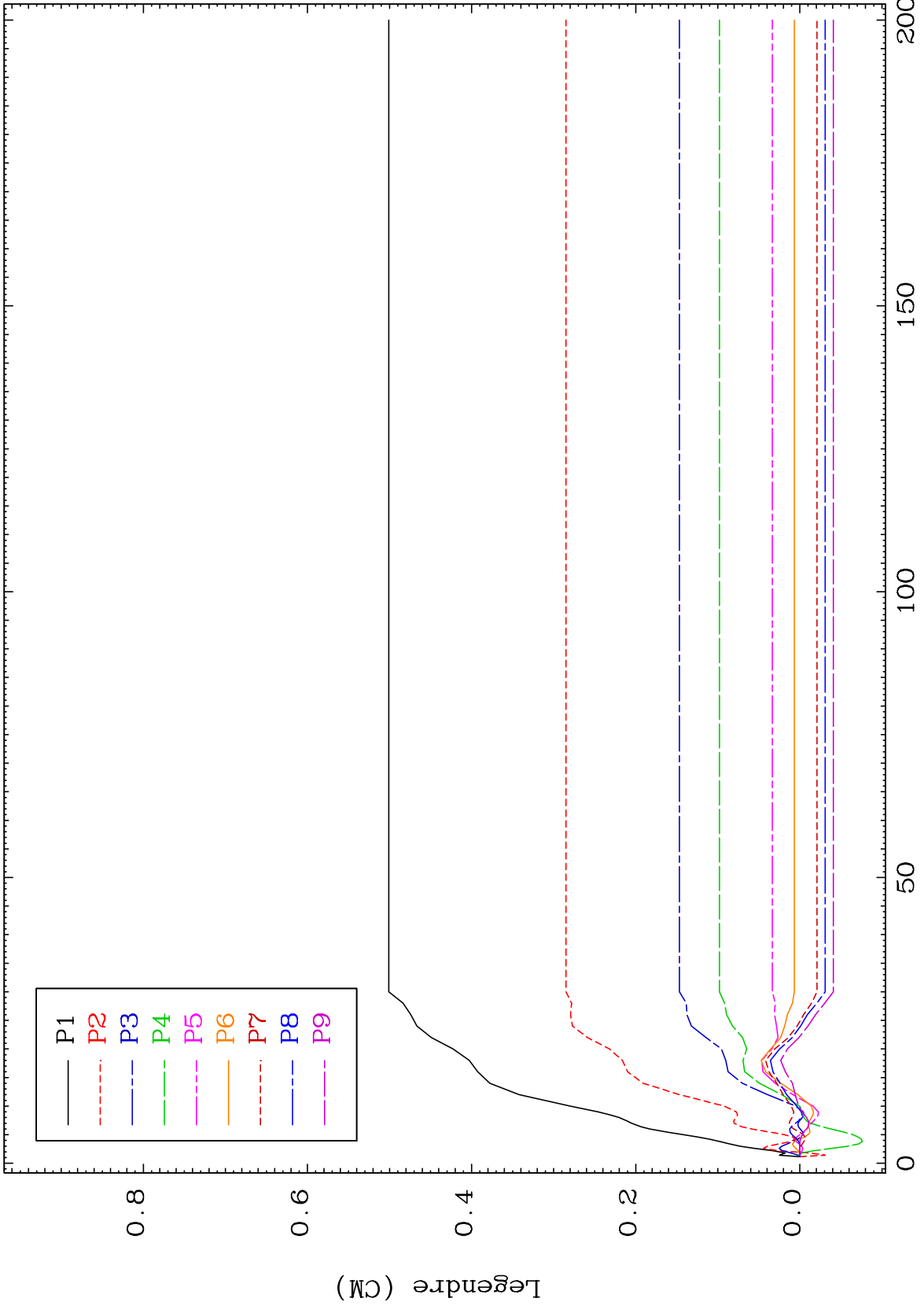
61-Pm-144

MAT 6140 MT= 72 (n,n') Level Legendre Coefficients 61-Pm-144



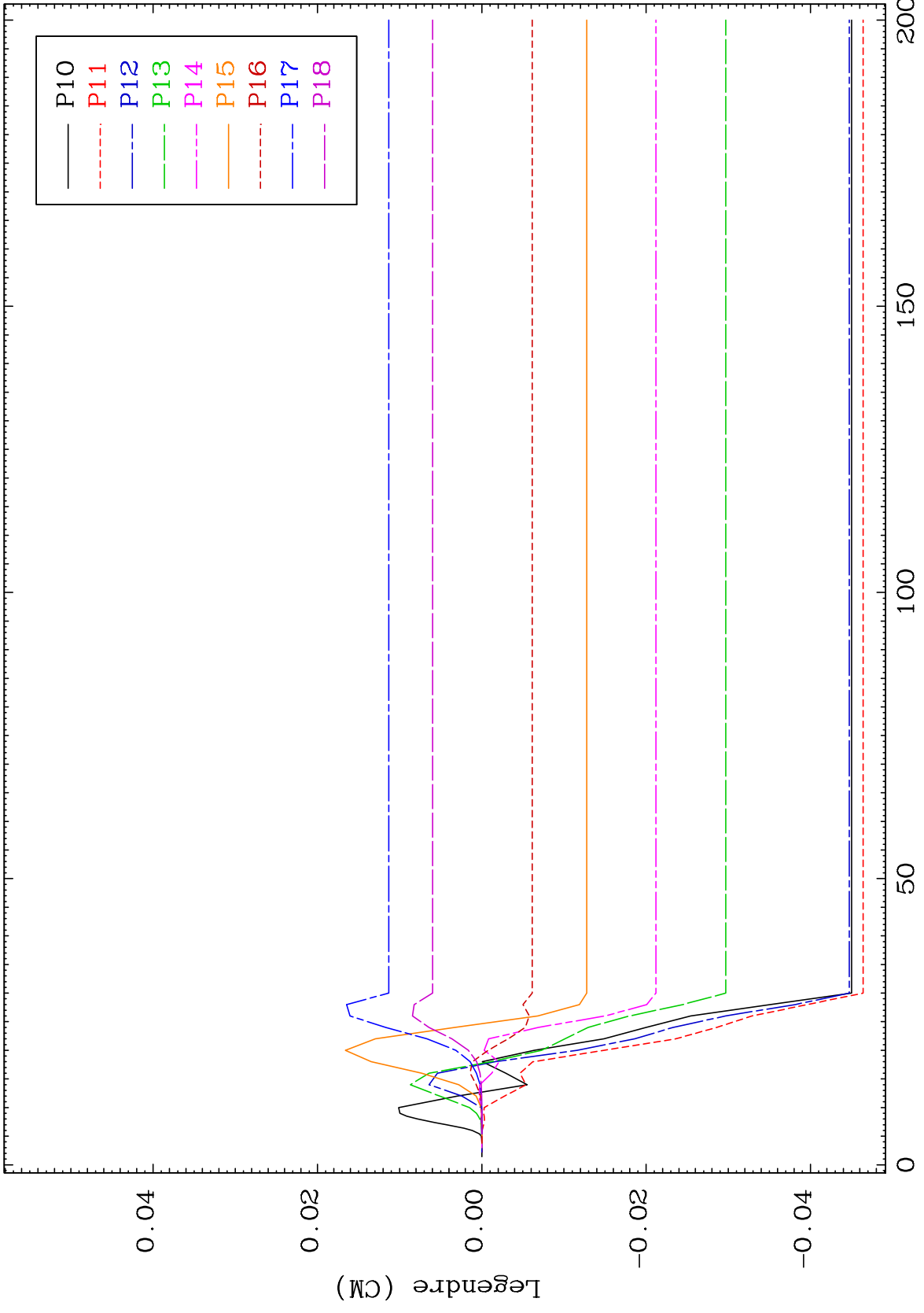
95 Incident Energy (MeV) 61-Pm-144

MAT 6140 MT= 73 (n,n') Level Legendre Coefficients 61-Pm-144



96 61-Pm-144

MAT 6140 MT= 73 (n,n') Level Legendre Coefficients 61-Pm-144

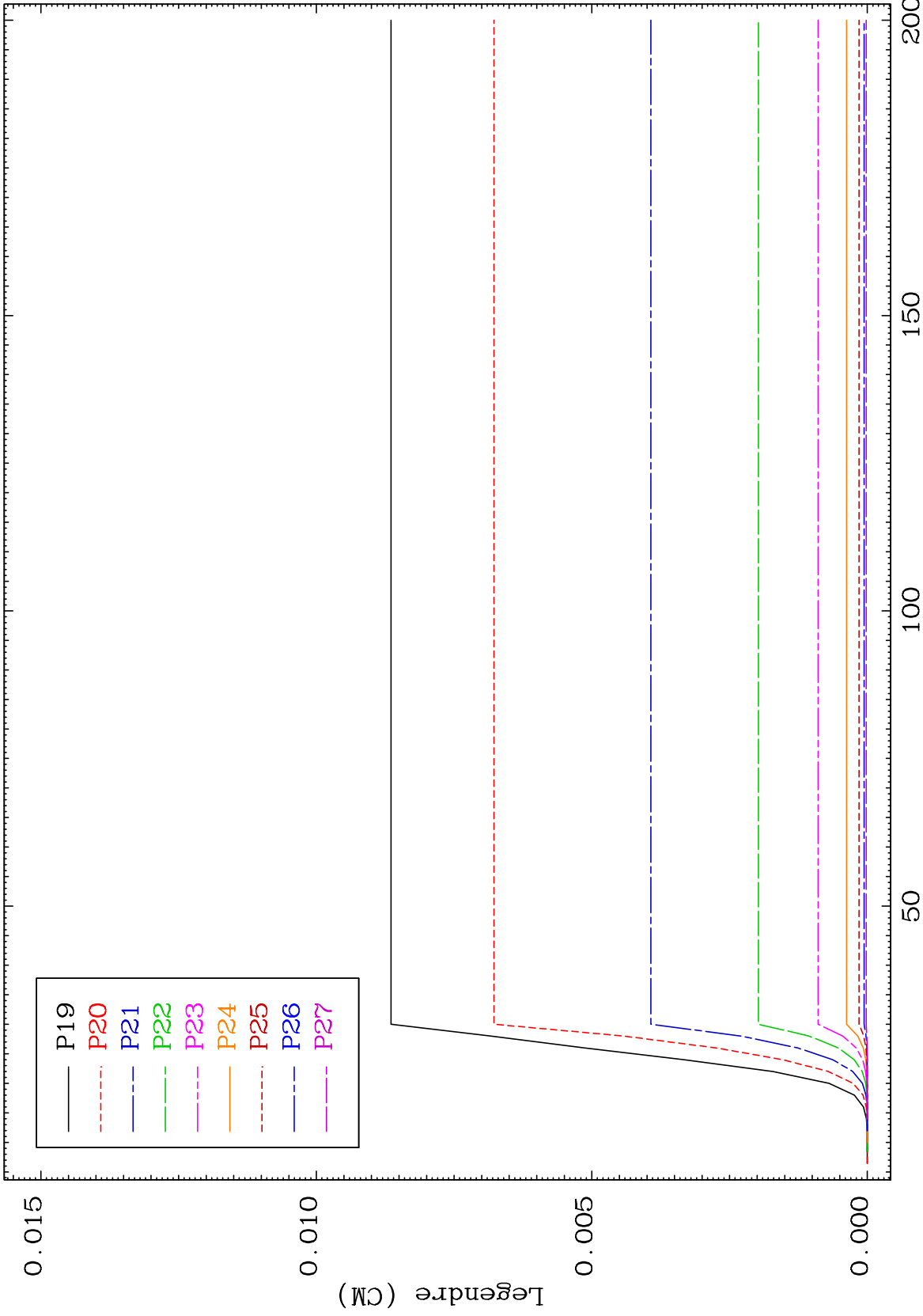


97 61-Pm-144

MAT 6140

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

61-Pm-144



98

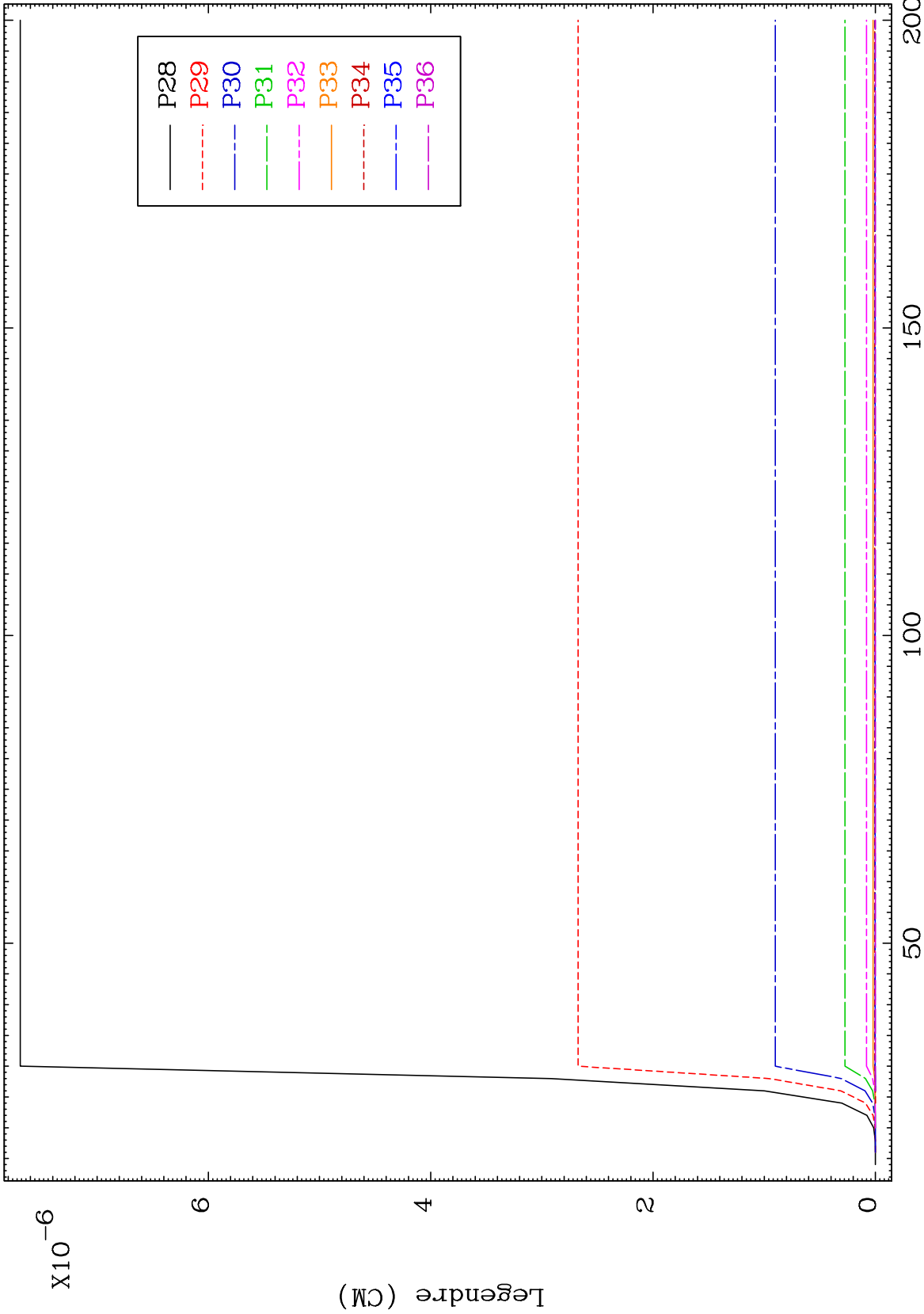
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

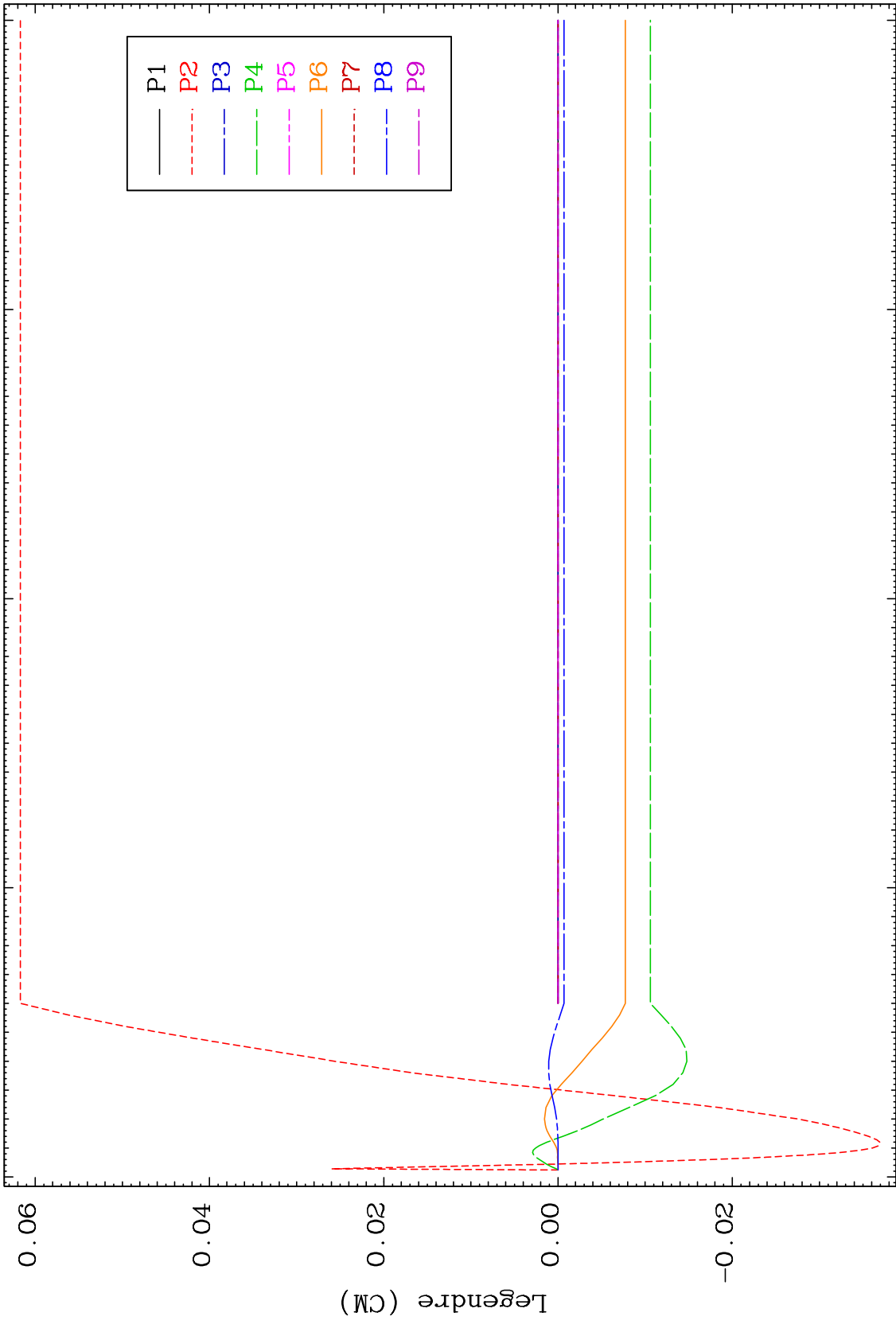
61-Pm-144



99

61-Pm-144

MAT 6140 MT= 74 (n,n') Level Legendre Coefficients 61-Pm-144

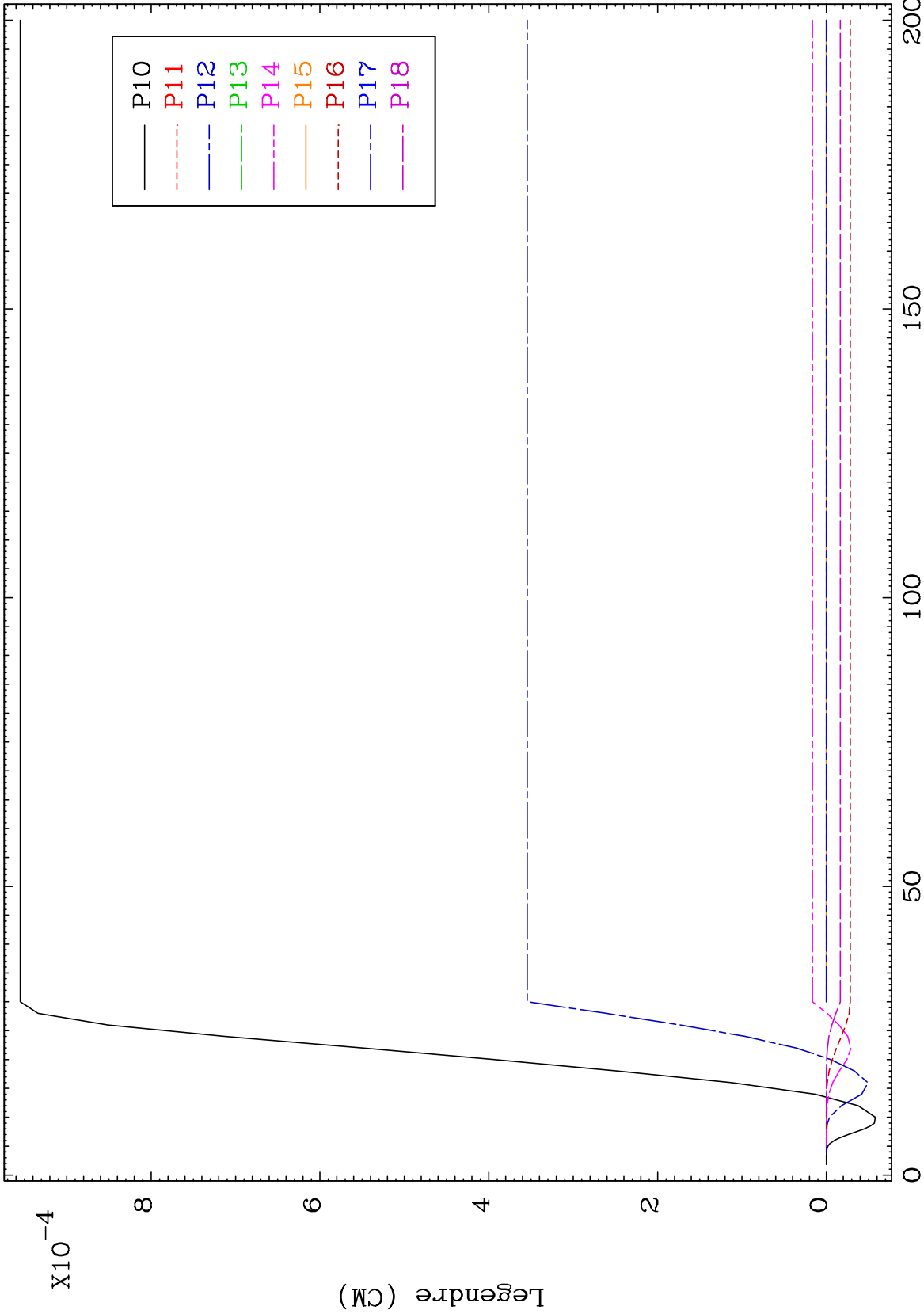


61-Pm-144

MAT 6140

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

61-Pm-144

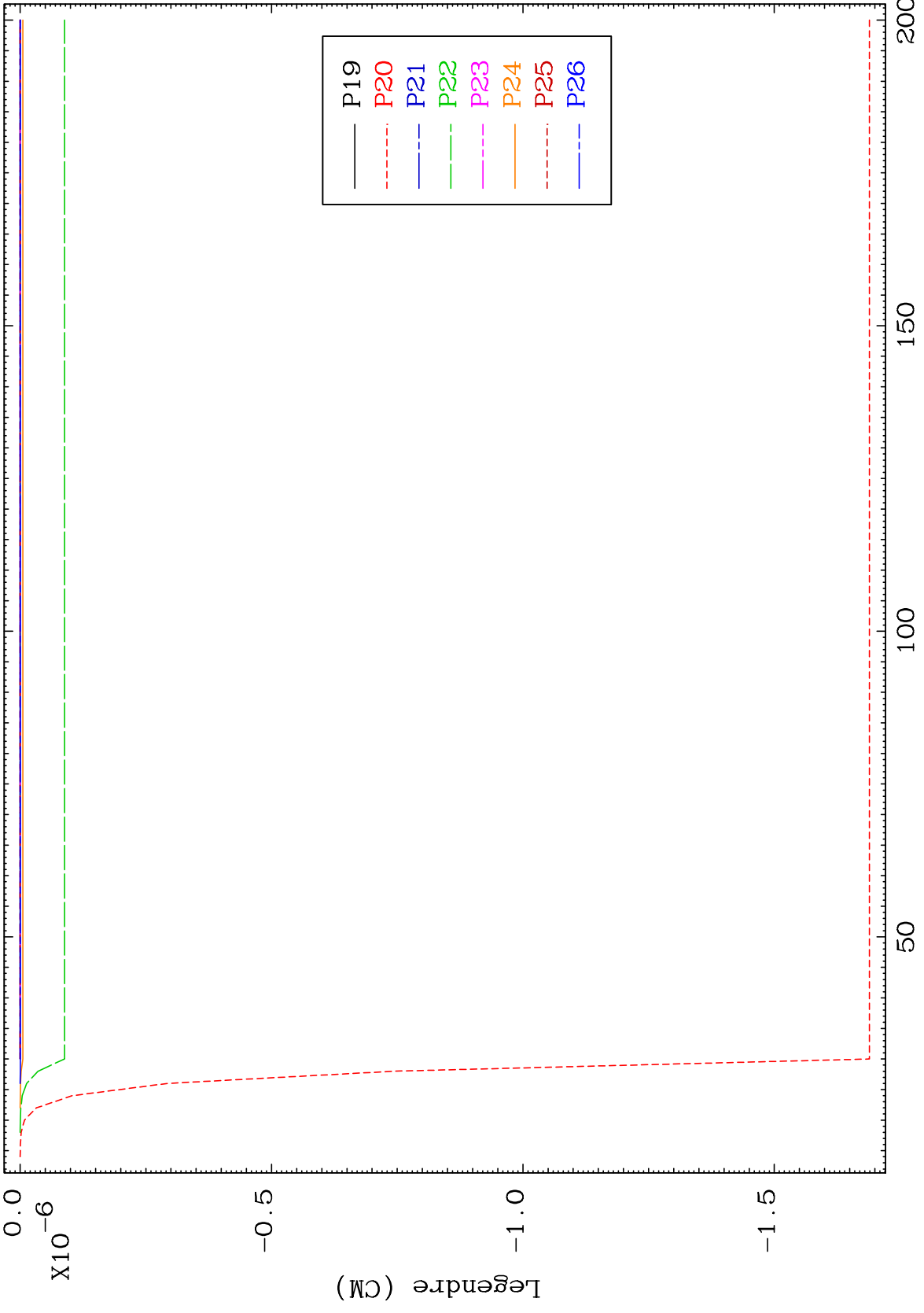


101

Incident Energy (MeV)

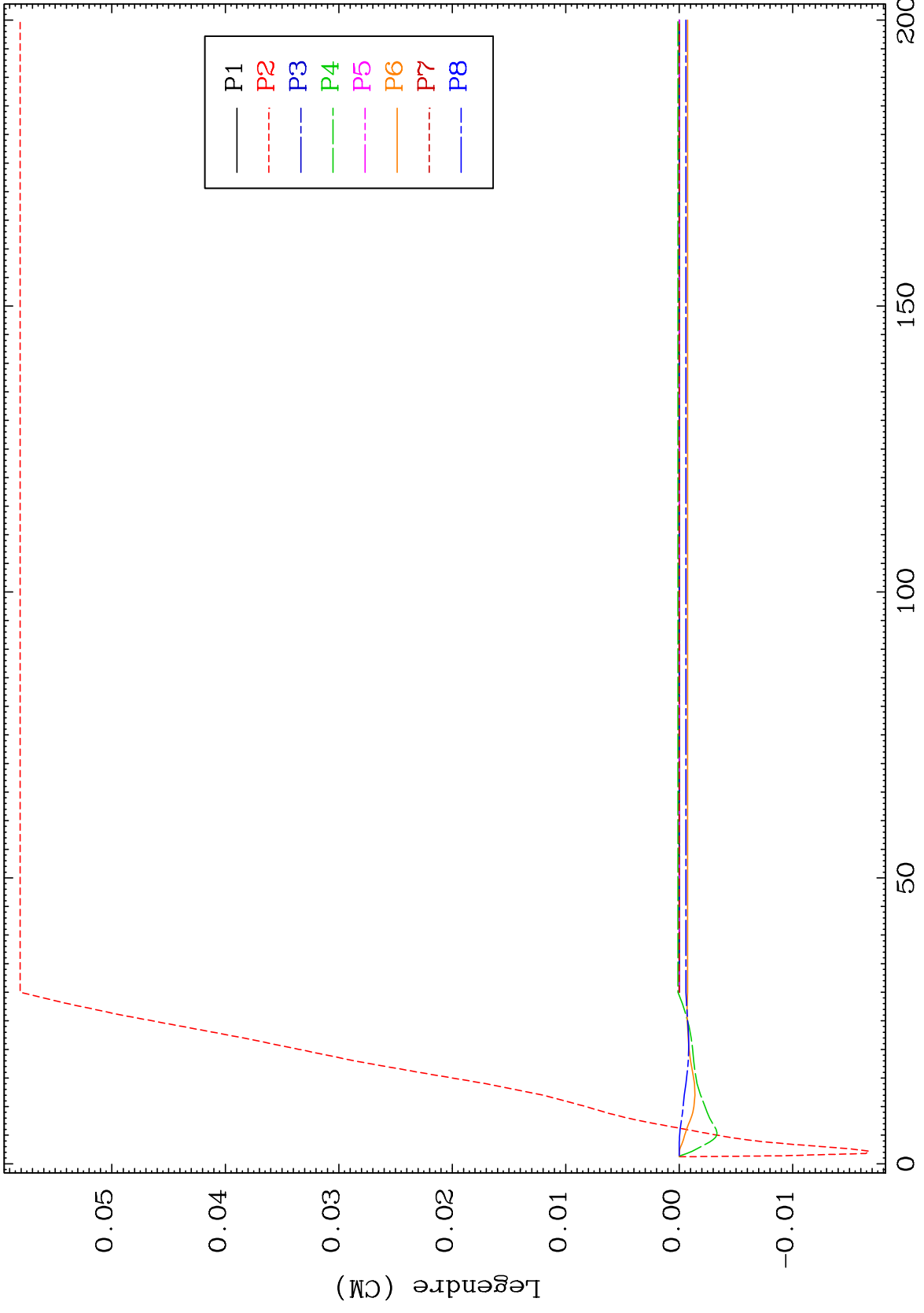
61-Pm-144

MAT 6140 MT= 74 (n,n') Level Legendre Coefficients 61-Pm-144



102 Incident Energy (MeV) 61-Pm-144

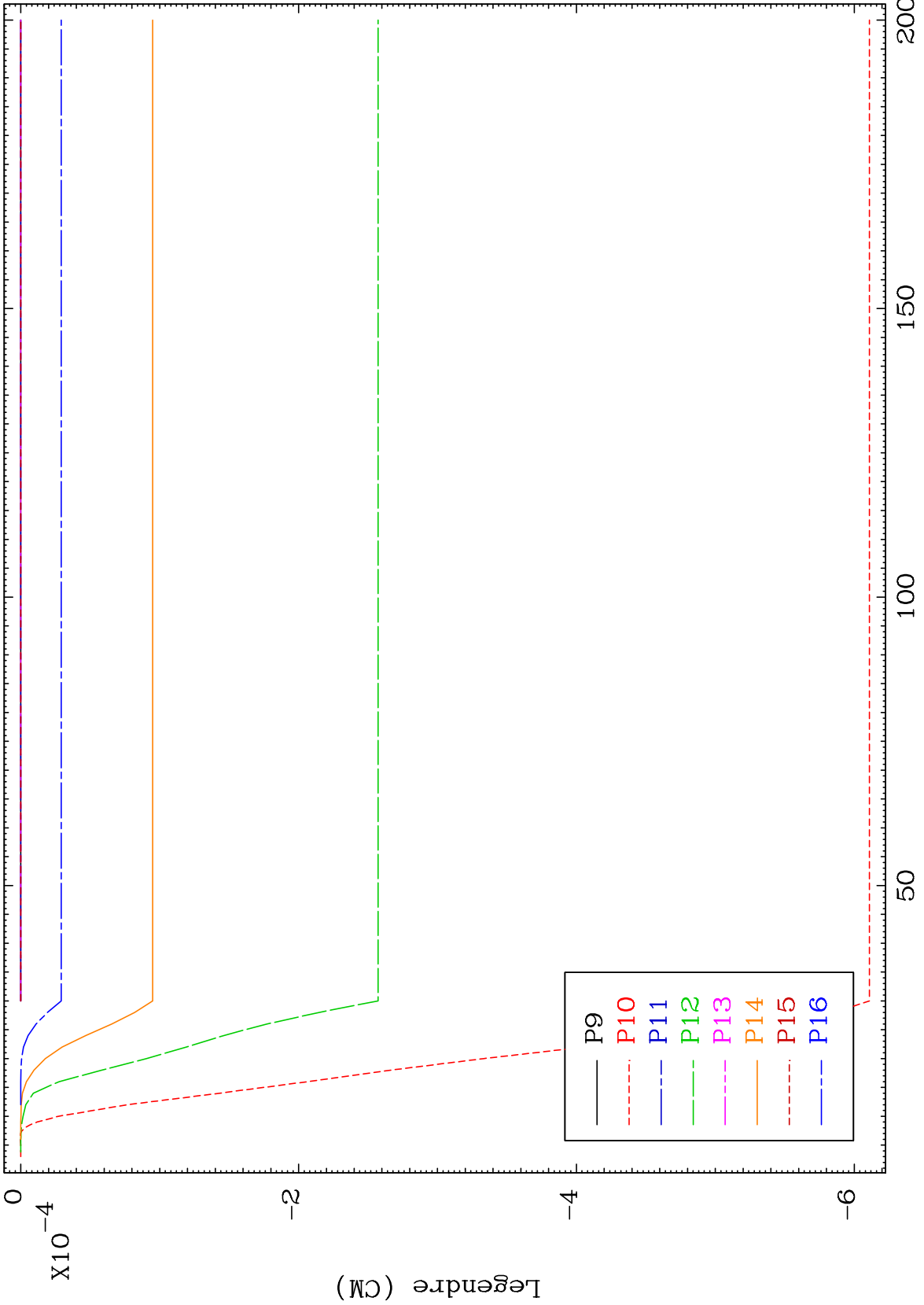
MAT 6140 MT= 75 (n,n') Level Legendre Coefficients 61-Pm-144



103 Incident Energy (MeV) 61-Pm-144

MAT 6140 MT= 75 (n,n') Level 61-Pm-144

Legendre Coefficients

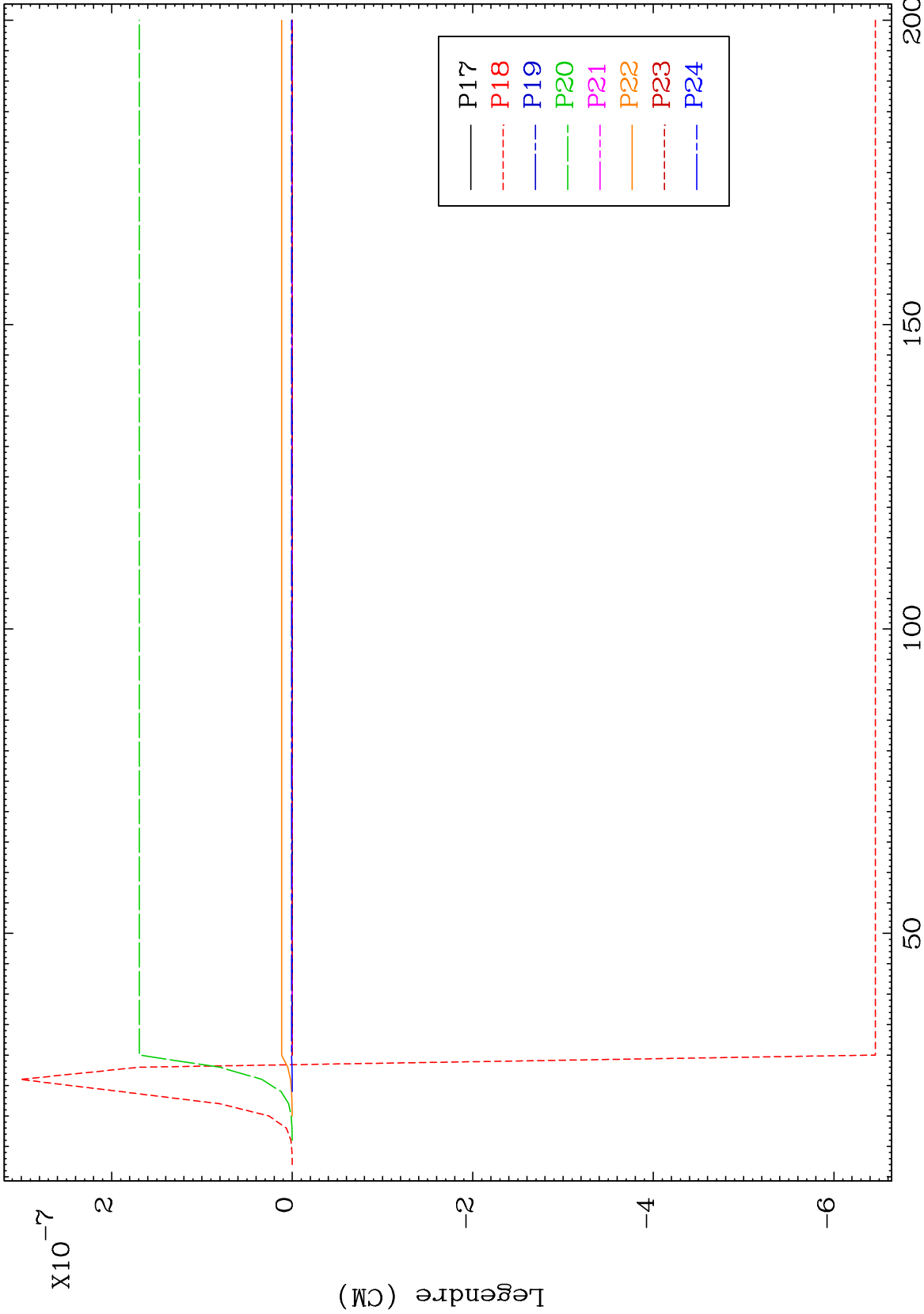


104 Incident Energy (MeV) 61-Pm-144

MAT 6140

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

61-Pm-144

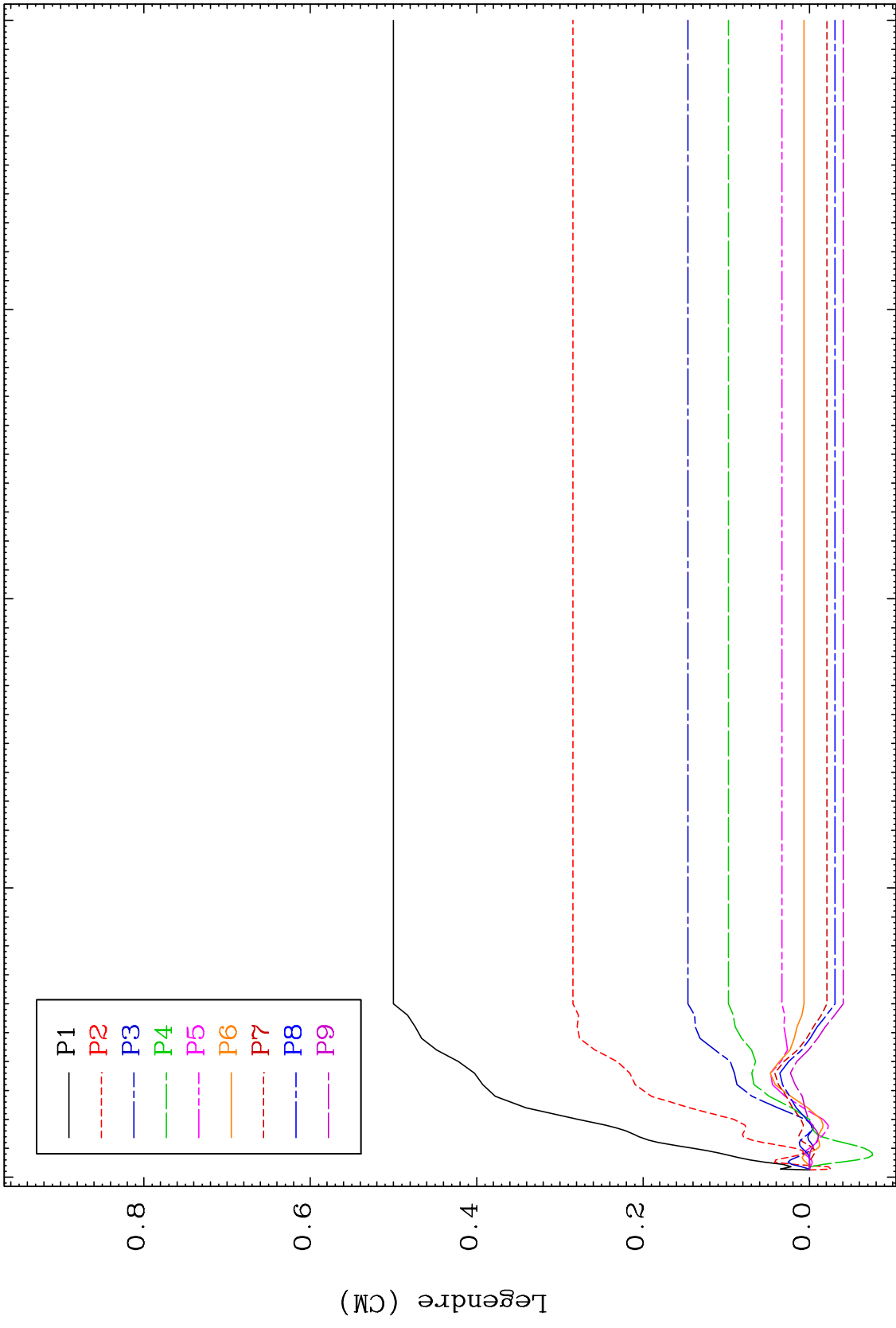


105

Incident Energy (MeV)

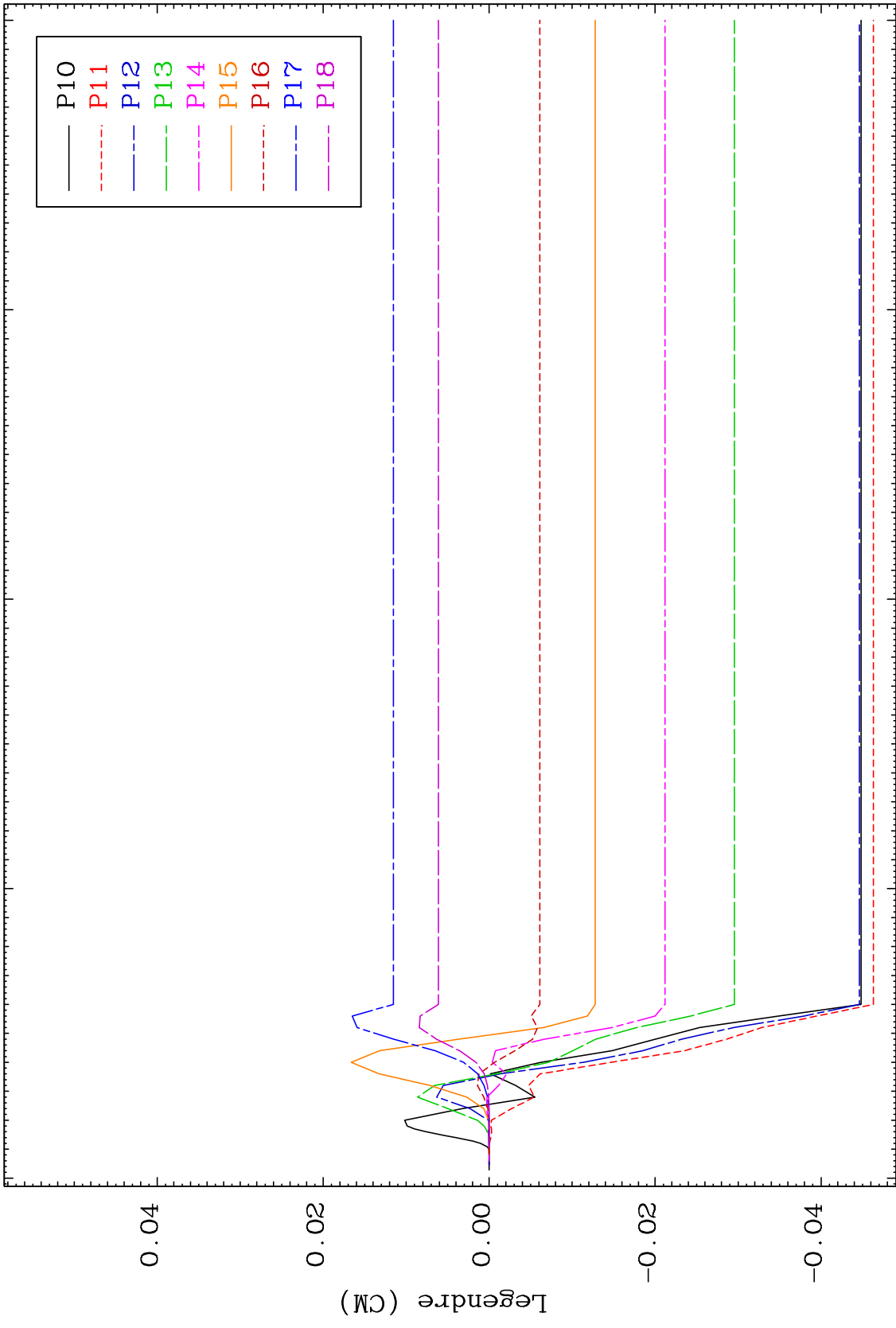
61-Pm-144

MAT 6140 MT= 76 (n,n') Level Legendre Coefficients 61-Pm-144



106 Incident Energy (MeV) 61-Pm-144

MAT 6140 MT= 76 (n,n') Level Legendre Coefficients 61-Pm-144

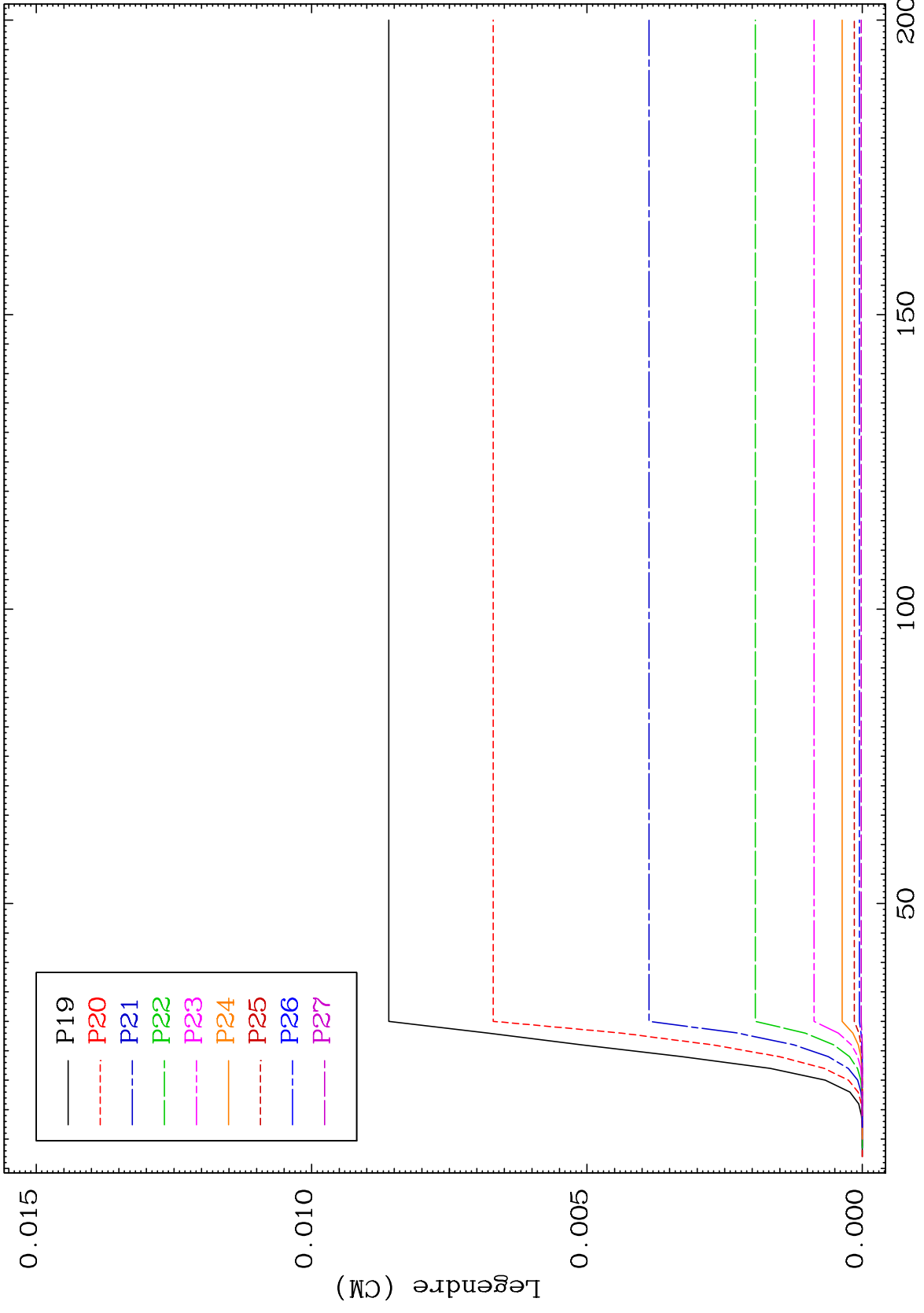


107 61-Pm-144

MAT 6140

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

61-Pm-144



108

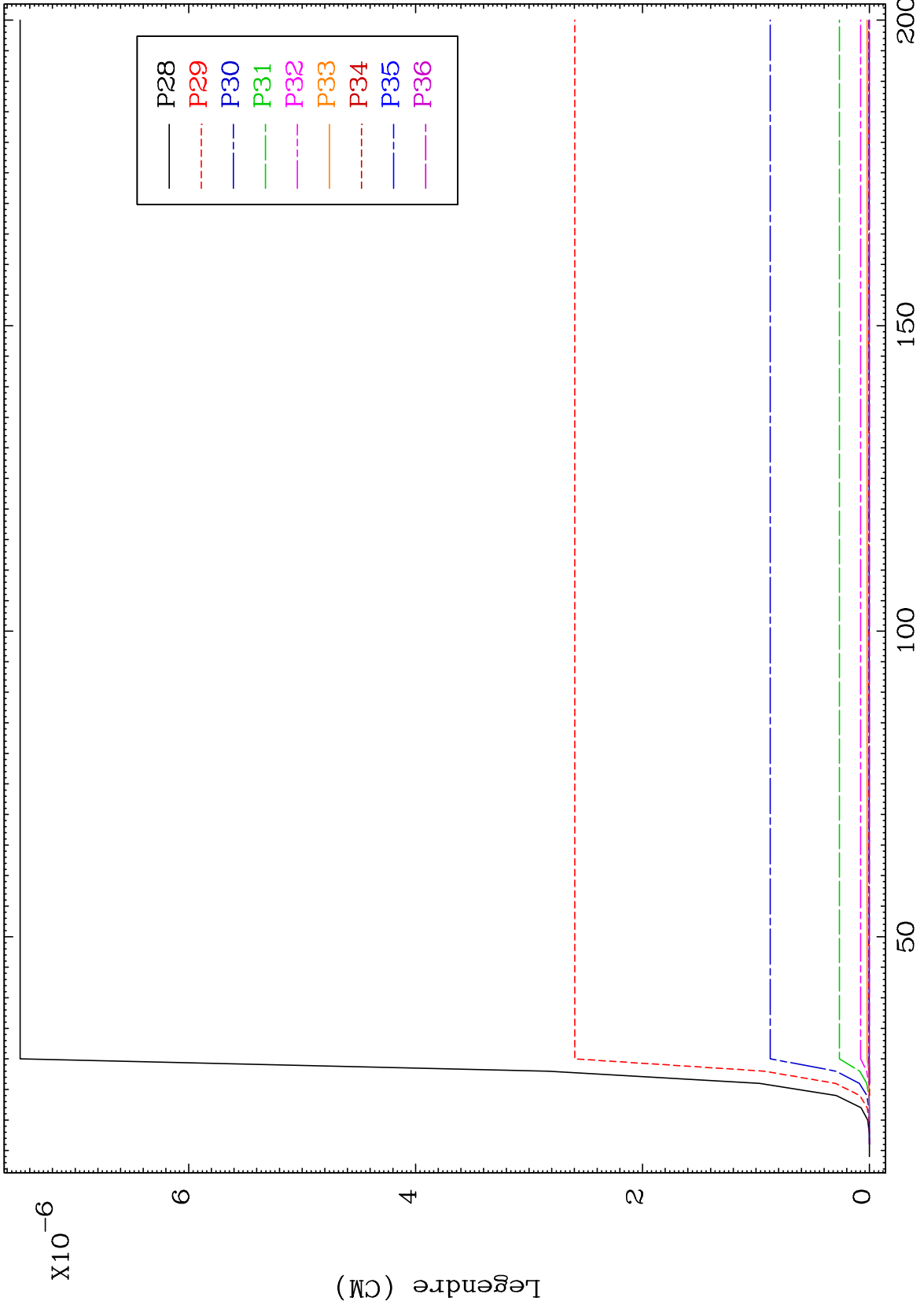
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



109

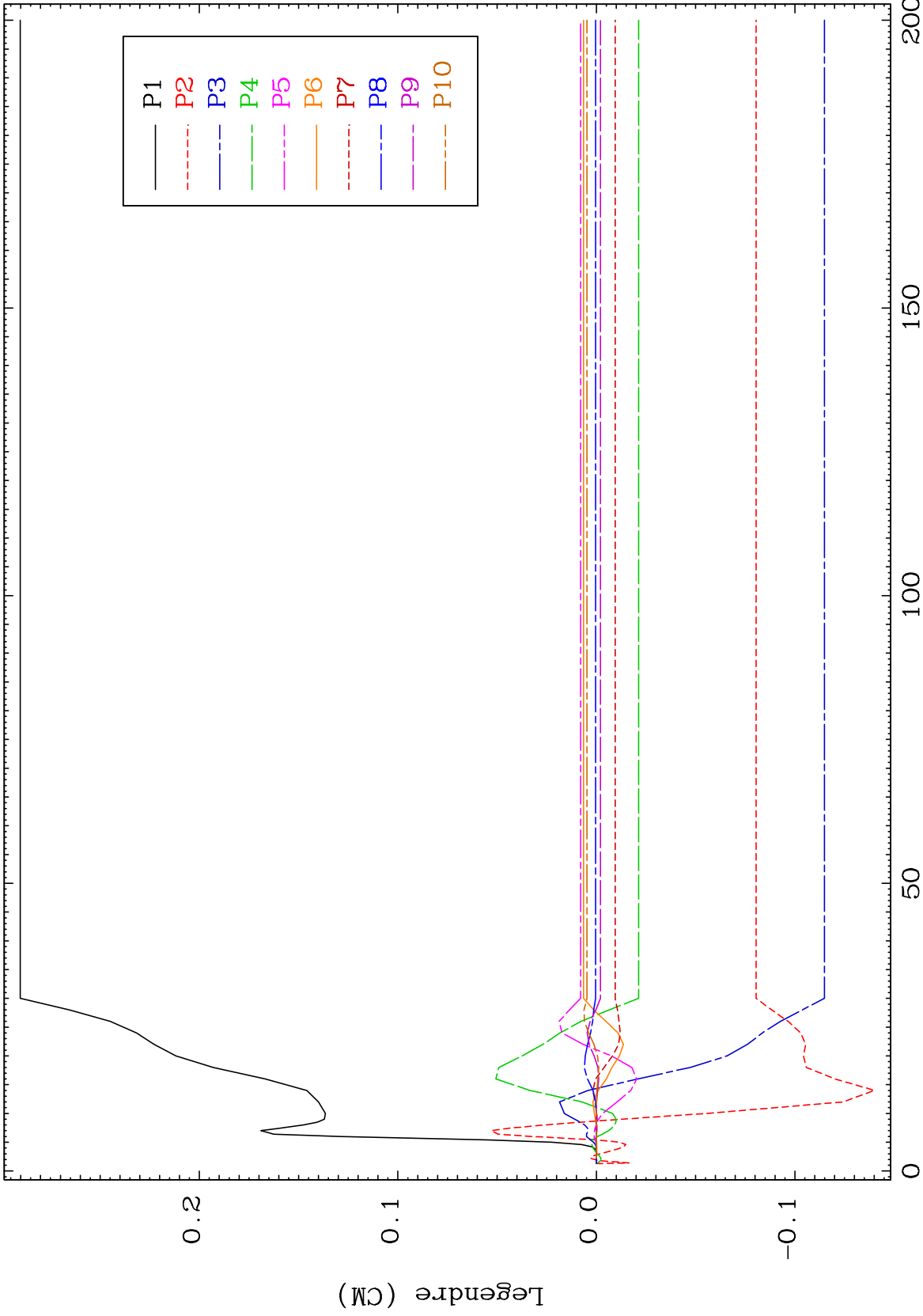
Incident Energy (MeV)

61-Pm-144

MAT 6140

MT= 77 (n,n') Level
Legendre Coefficients

61-Pm-144



61-Pm-144

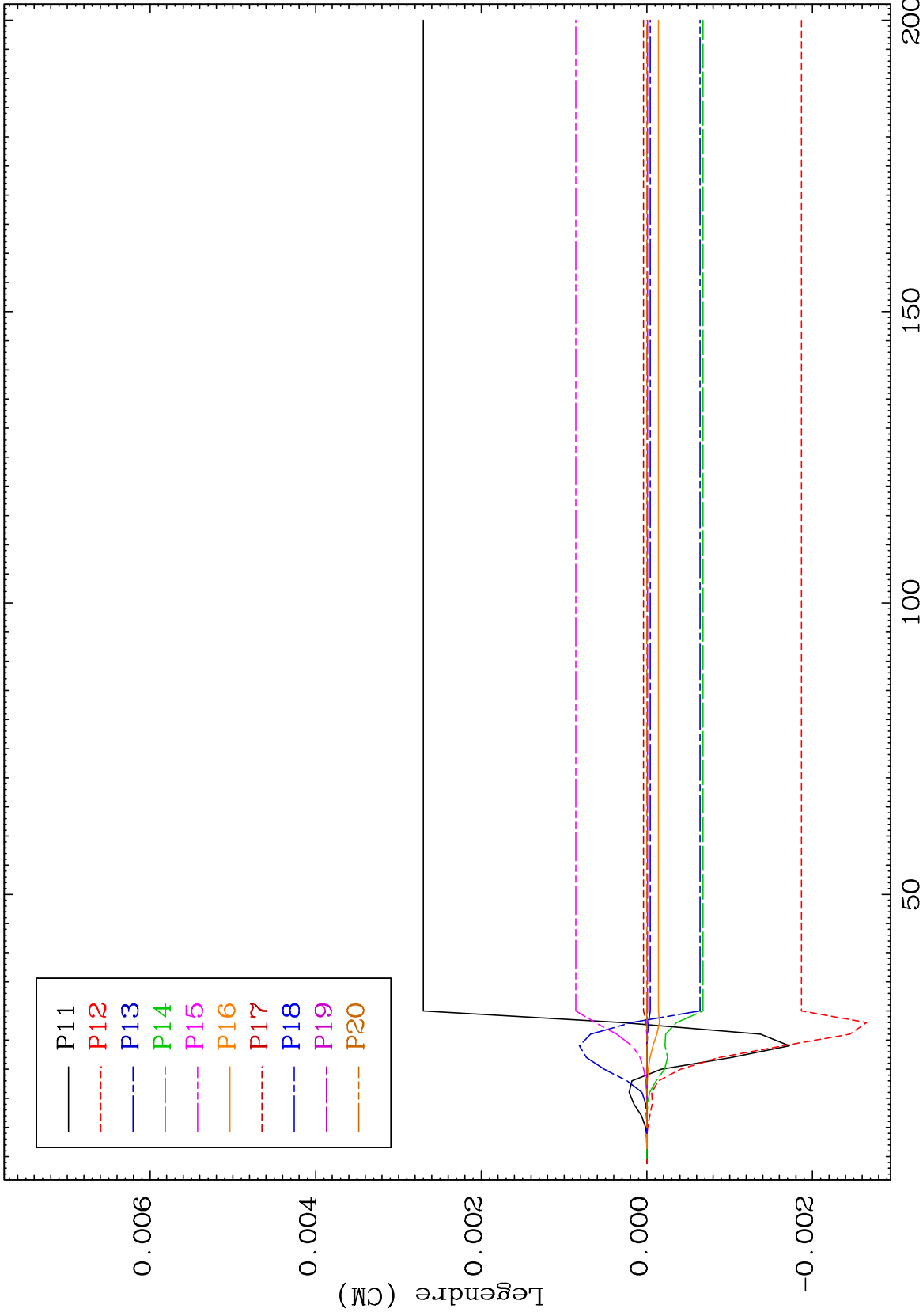
Incident Energy (MeV)

110

MAT 6140

MT= 77 (n,n') Level
Legendre Coefficients

61-Pm-144



111

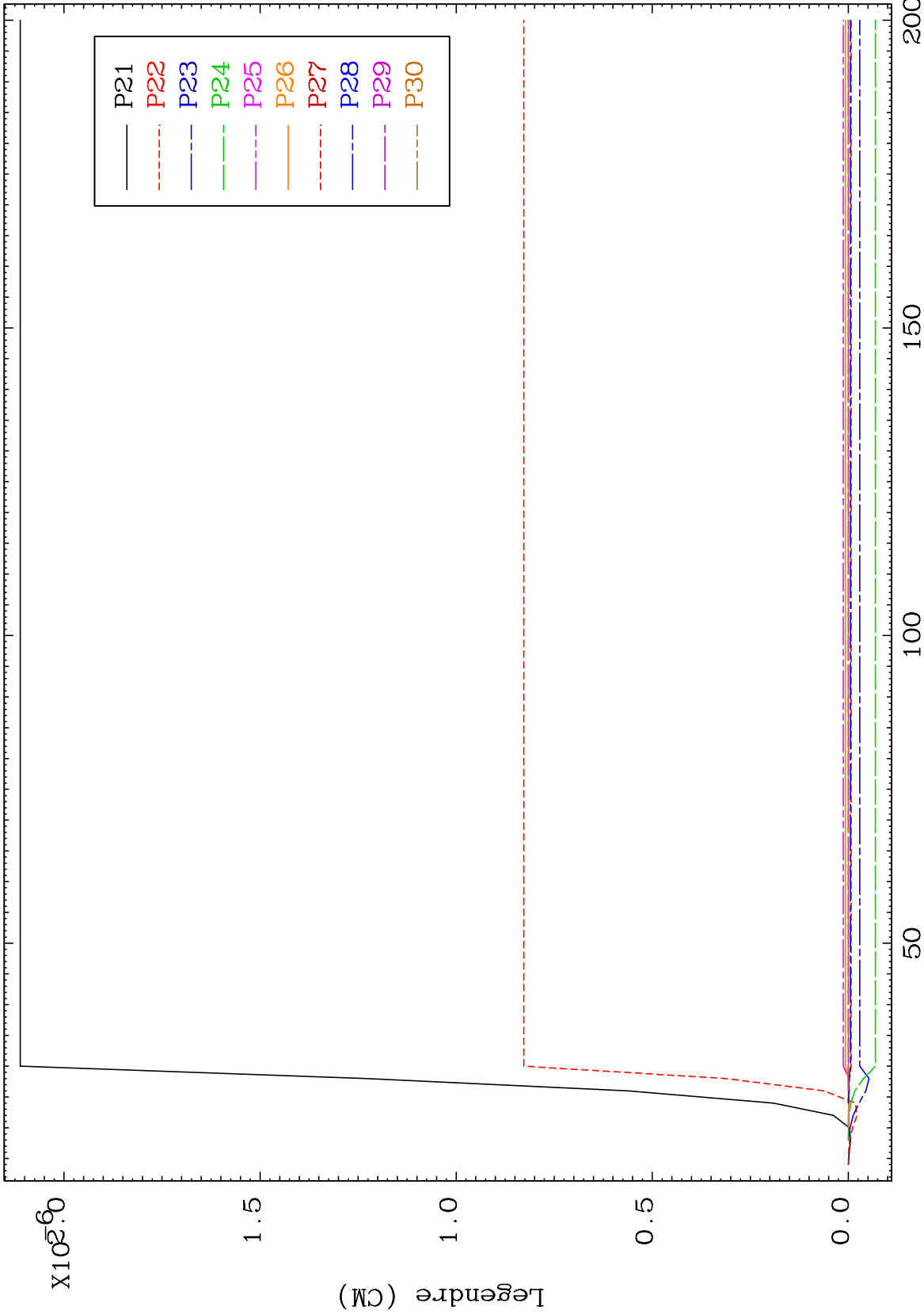
Incident Energy (MeV)

61-Pm-144

MAT 6140

MT= 77 (n,n') Level
Legendre Coefficients

61-Pm-144

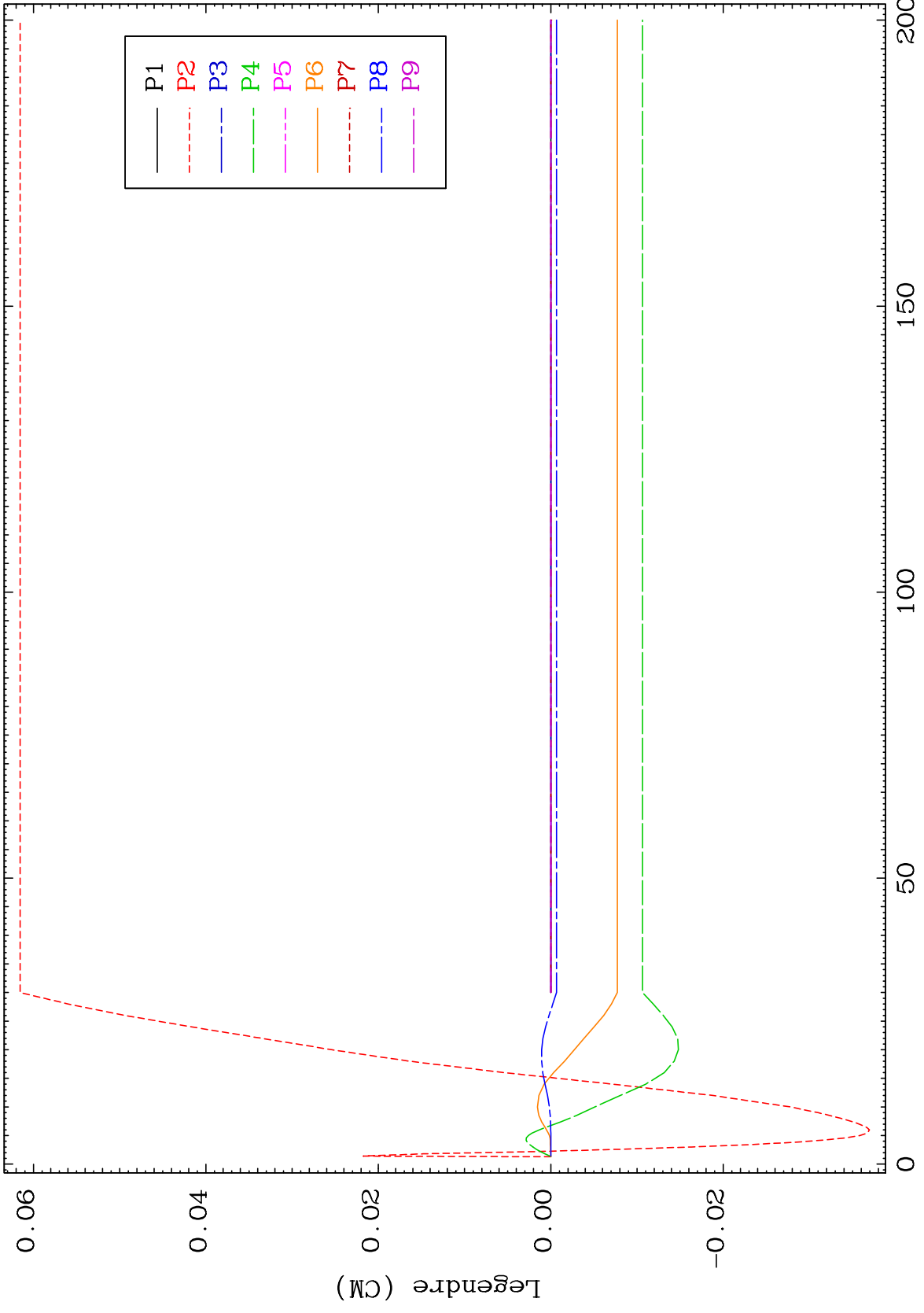


112

Incident Energy (MeV)

61-Pm-144

MAT 6140 MT= 78 (n,n') Level Legendre Coefficients 61-Pm-144

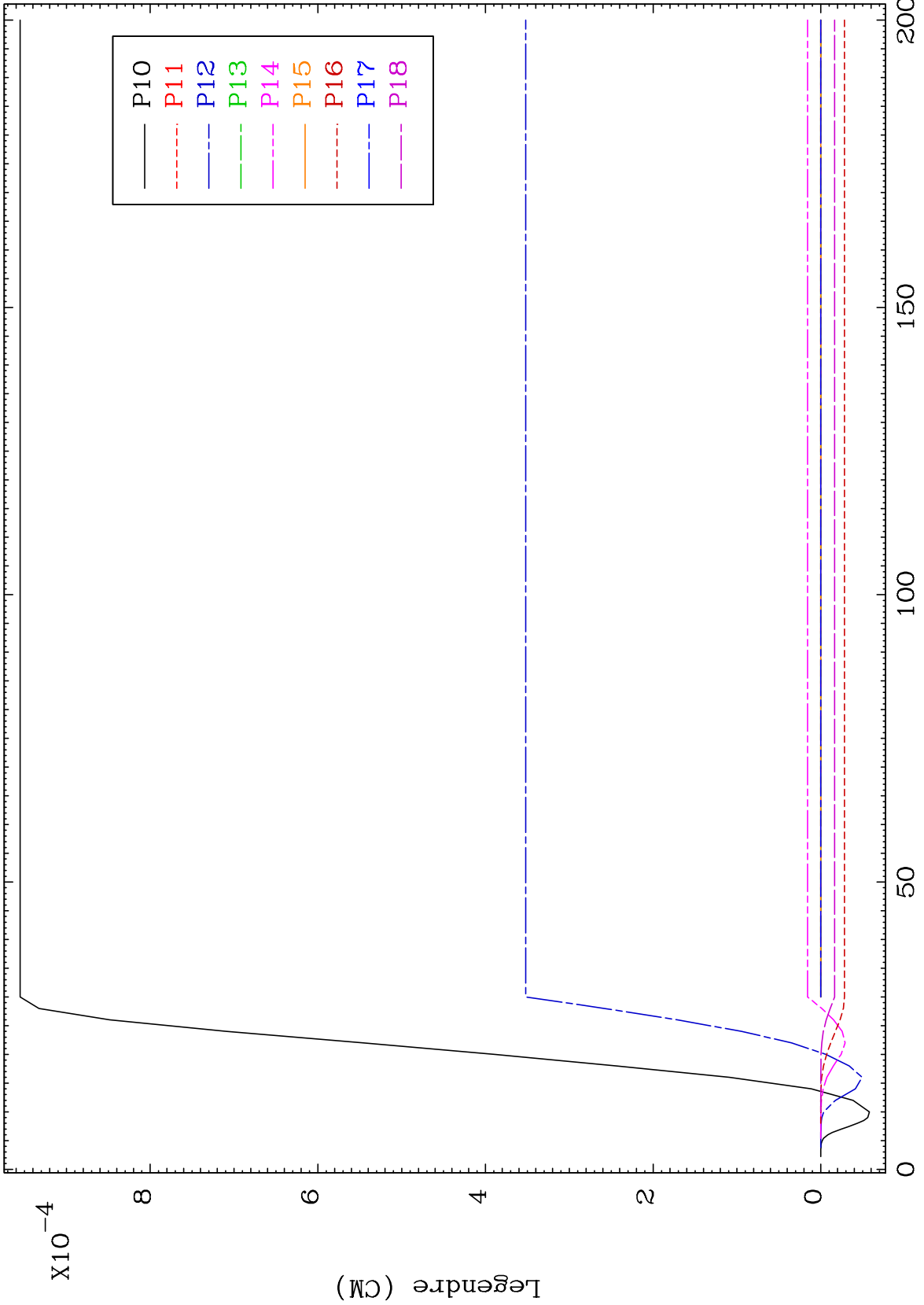


113 61-Pm-144

MAT 6140

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

61-Pm-144

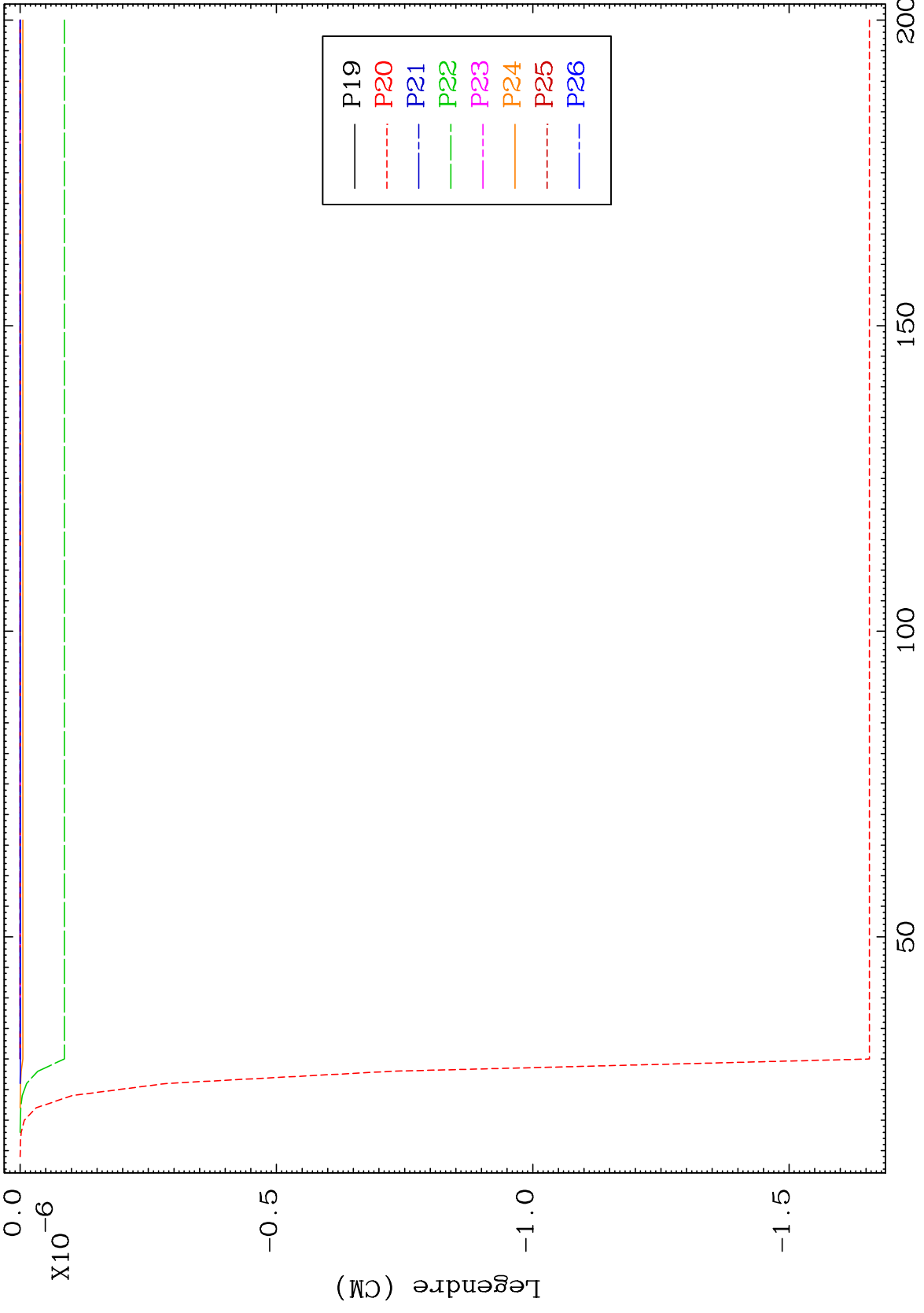


114

Incident Energy (MeV)

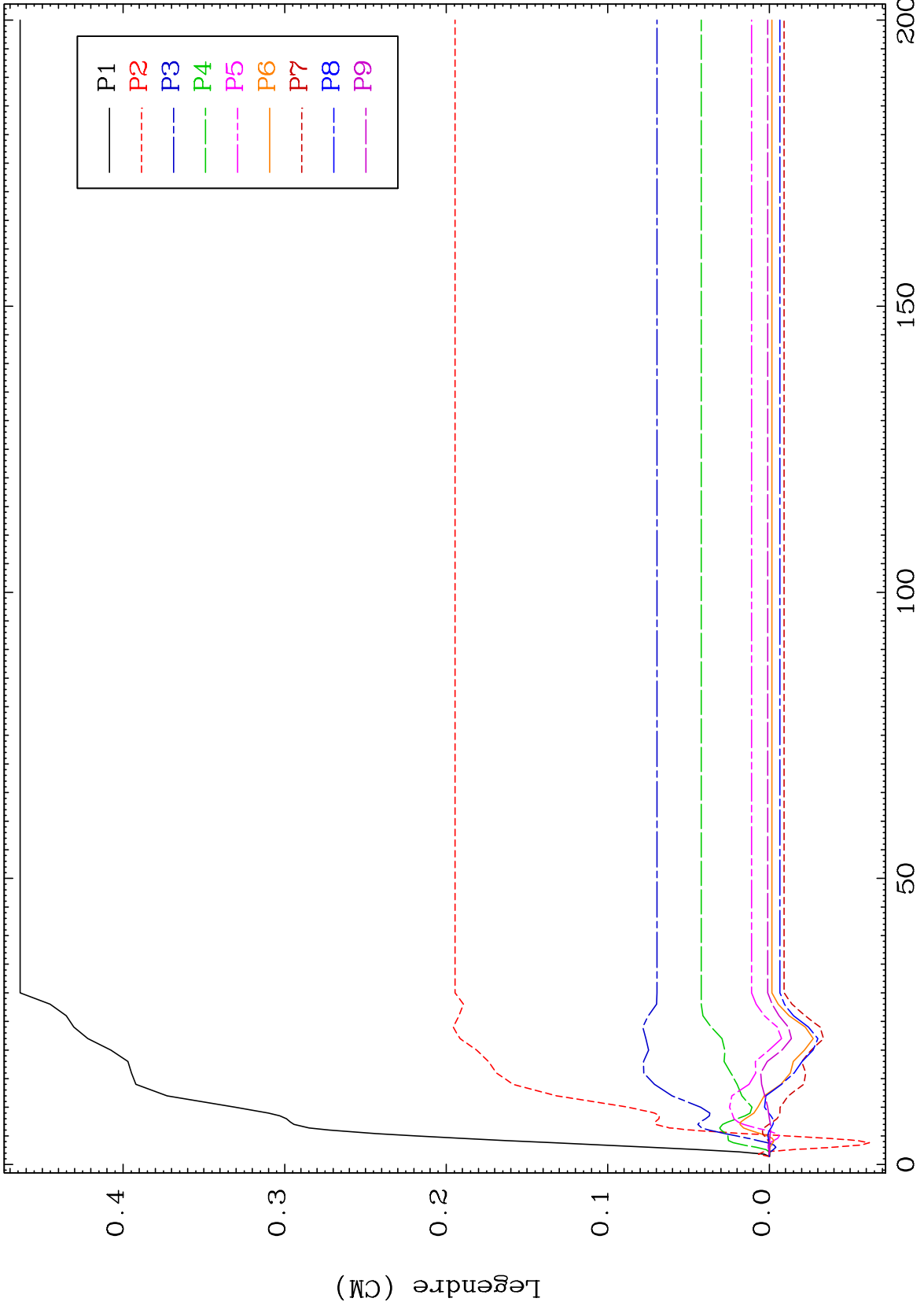
61-Pm-144

MAT 6140 MT= 78 (n,n') Level Legendre Coefficients 61-Pm-144



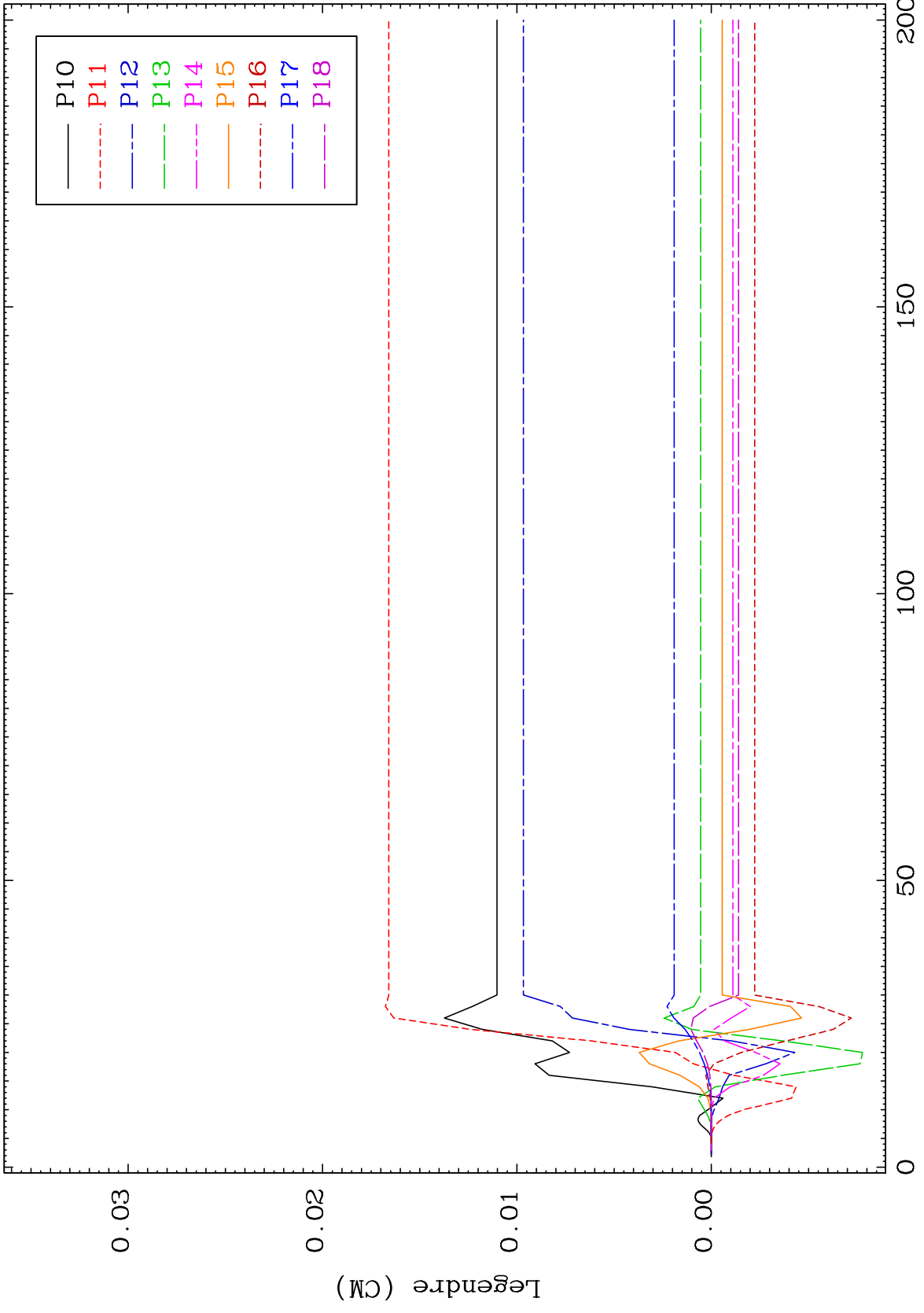
115 Incident Energy (MeV) 61-Pm-144

MAT 6140 MT= 79 (n,n') Level Legendre Coefficients 61-Pm-144



116 61-Pm-144

MAT 6140 MT= 79 (n,n') Level Legendre Coefficients 61-Pm-144

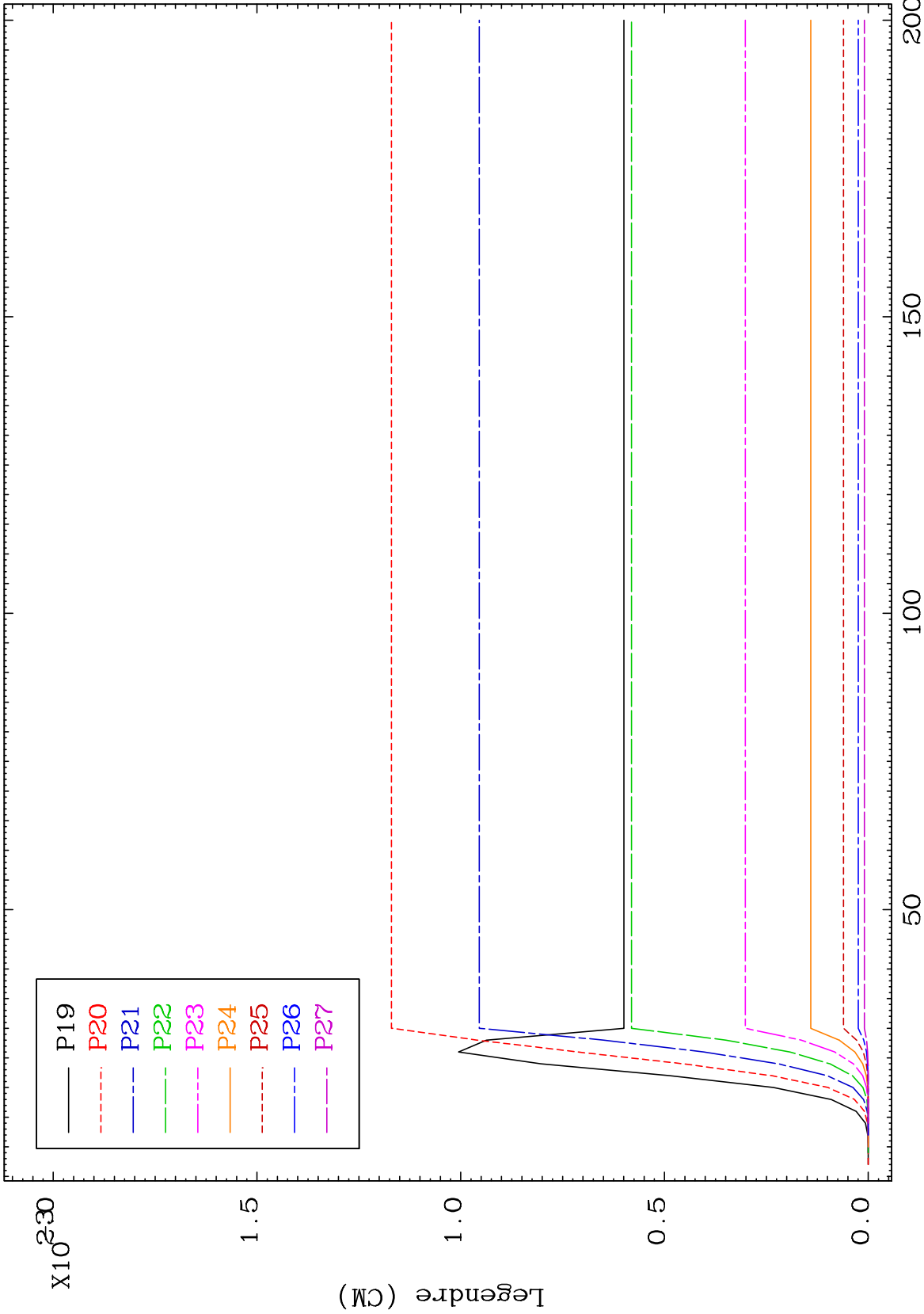


117 61-Pm-144

MAT 6140

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

61-Pm-144



118

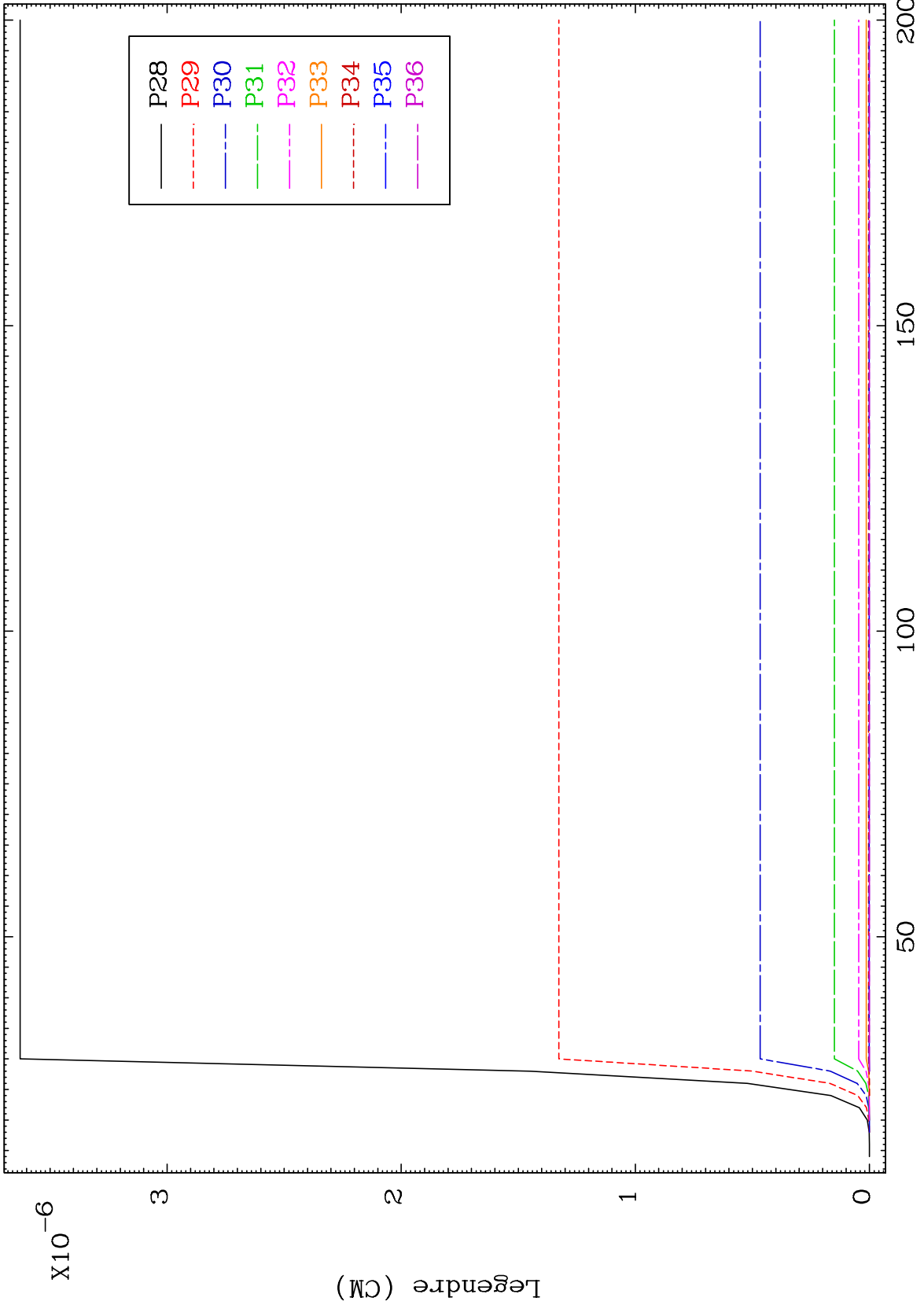
Incident Energy (MeV)

61-Pm-144

MAT 6140

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

61-Pm-144



119

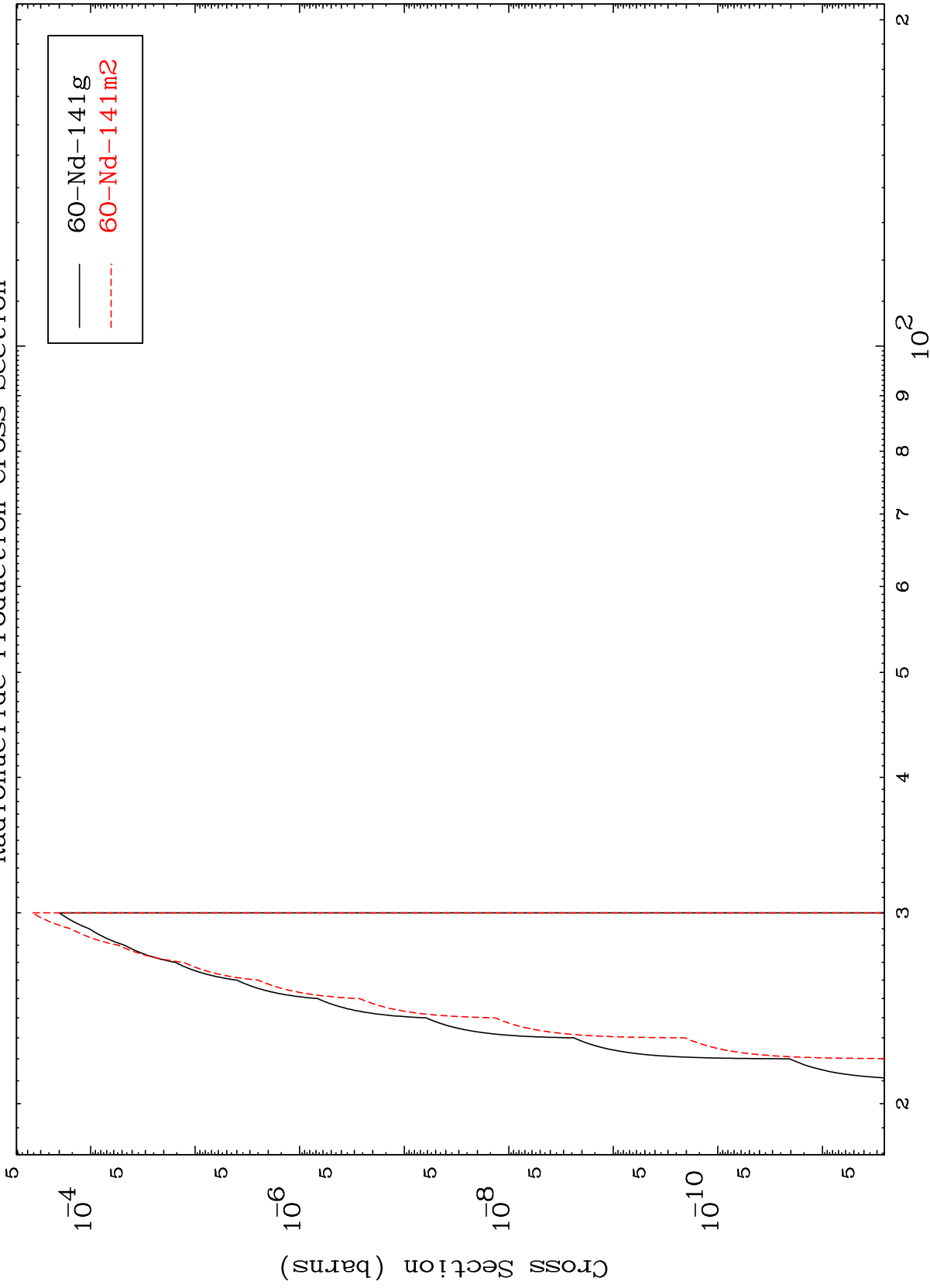
61-Pm-144

MAT 6140

(n,2n) d

61-Pm-144

Radionuclide Production Cross Section



120

Incident Energy (MeV)

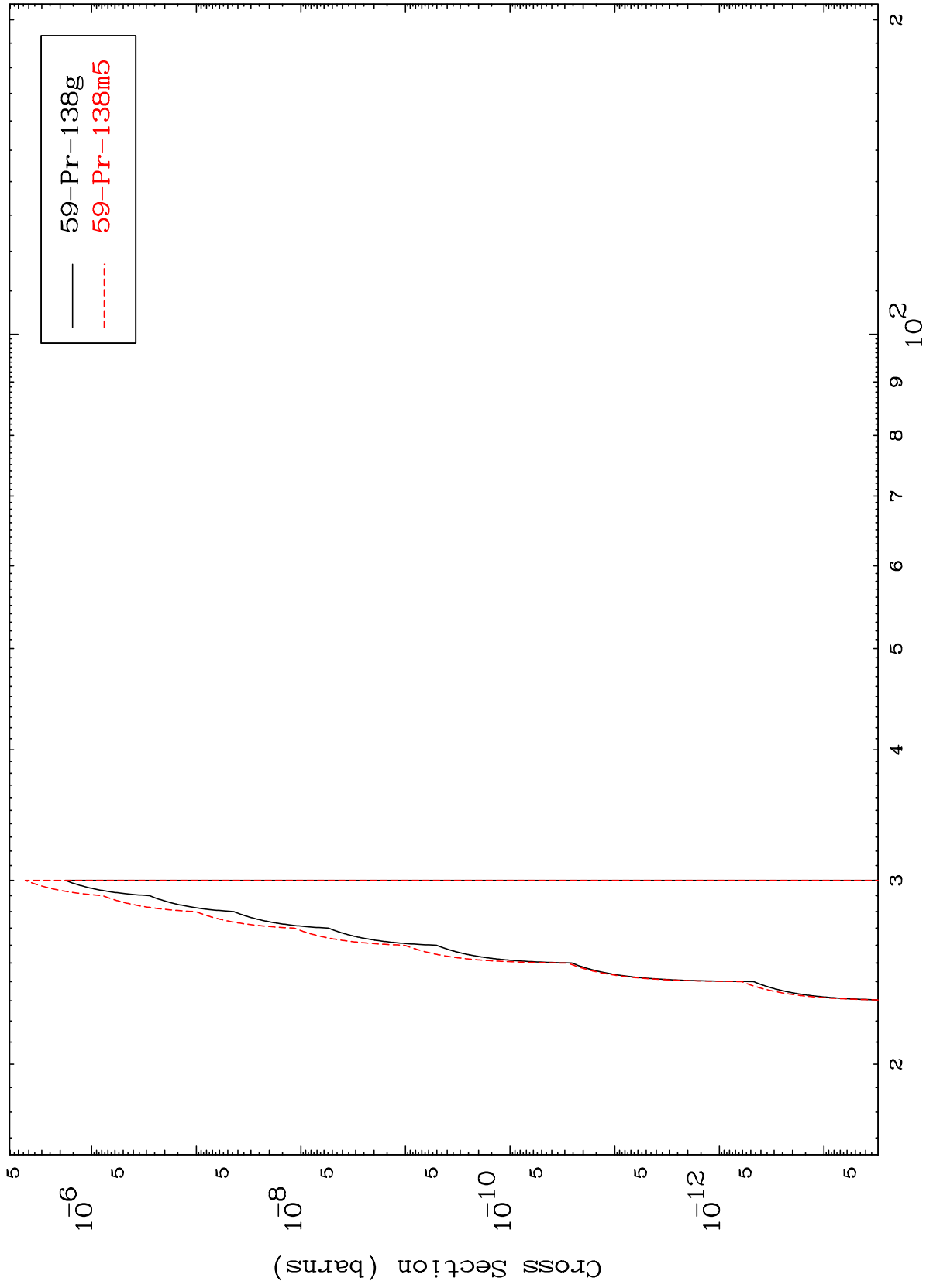
61-Pm-144

MAT 6140

(n,3n) α

61-Pm-144

Radionuclide Production Cross Section



121

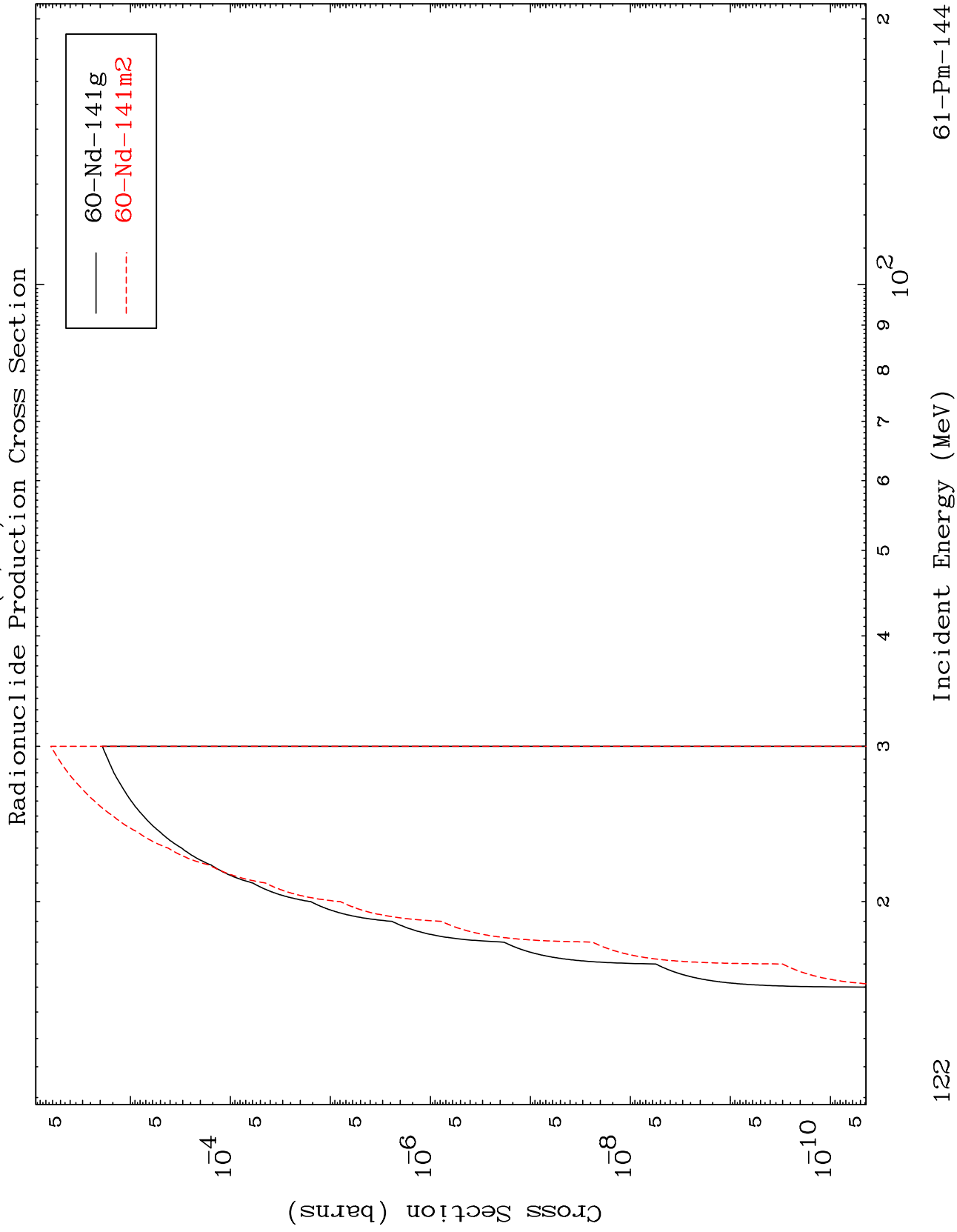
Incident Energy (MeV)

61-Pm-144

MAT 6140

(n, n') t

61-Pm-144



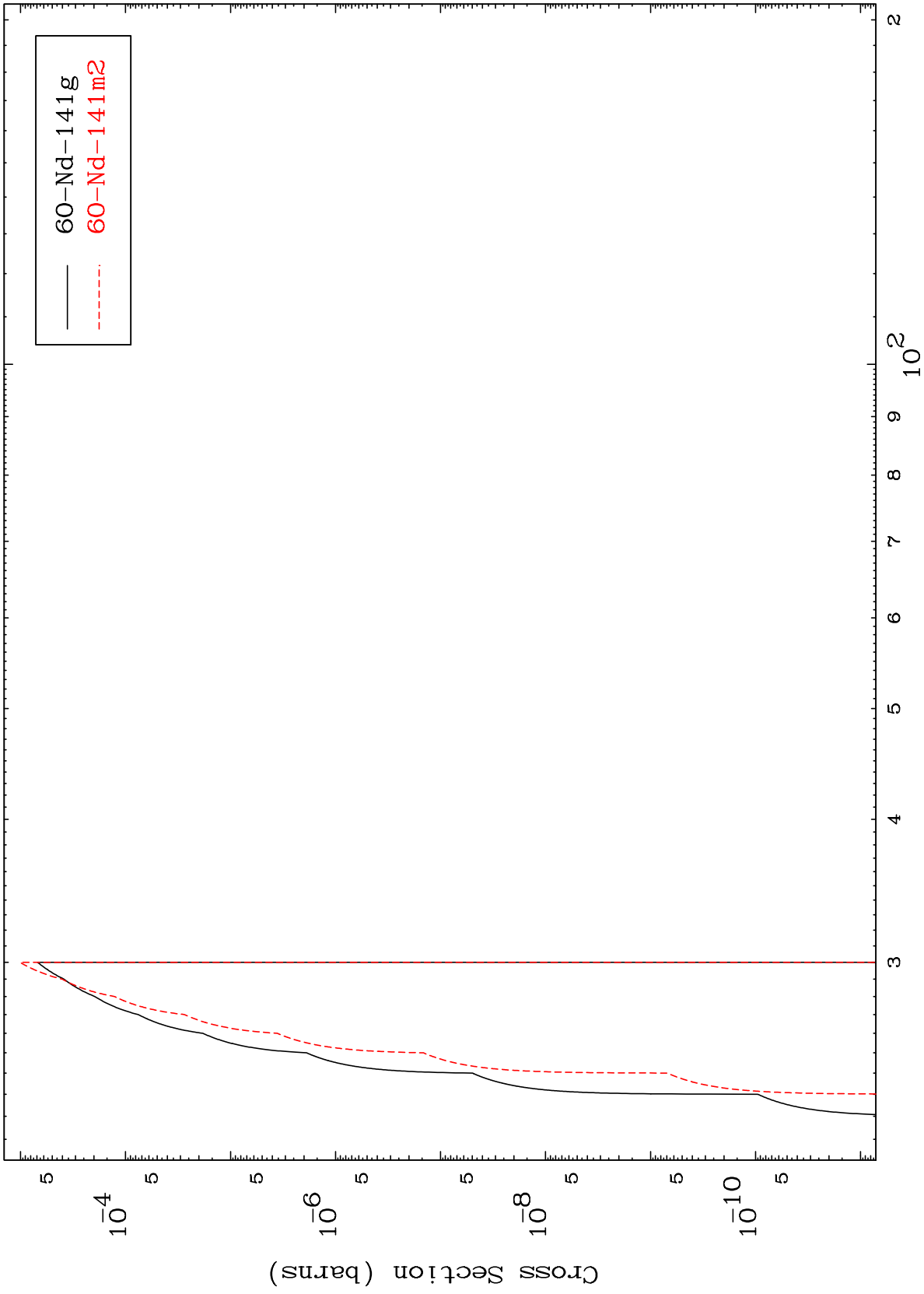
122

MAT 6140

(n,3n) p

61-Pm-144

Radionuclide Production Cross Section



123

Incident Energy (MeV)

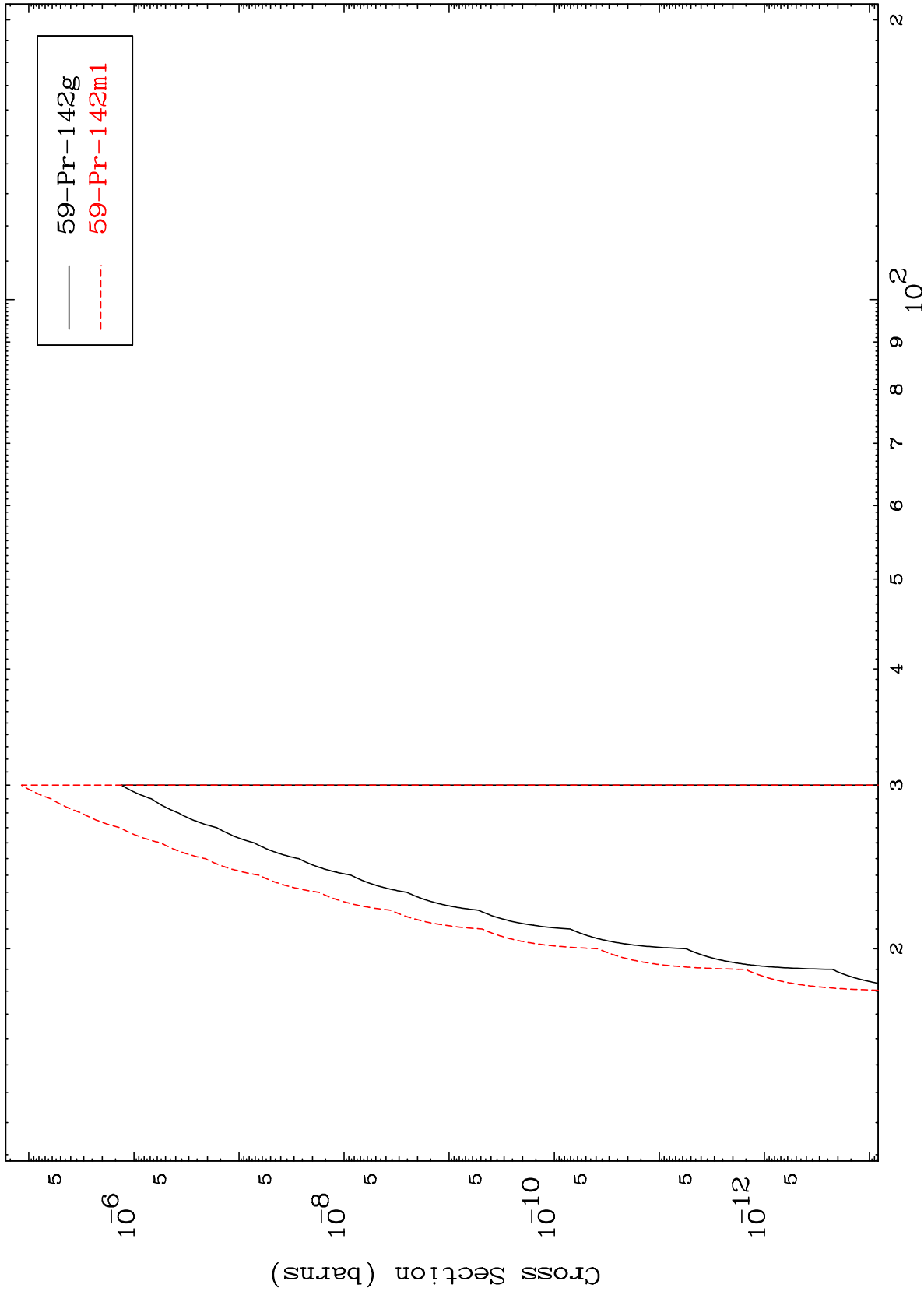
61-Pm-144

MAT 6140

(n,2n) p

61-Pm-144

Radionuclide Production Cross Section



124

Incident Energy (MeV)

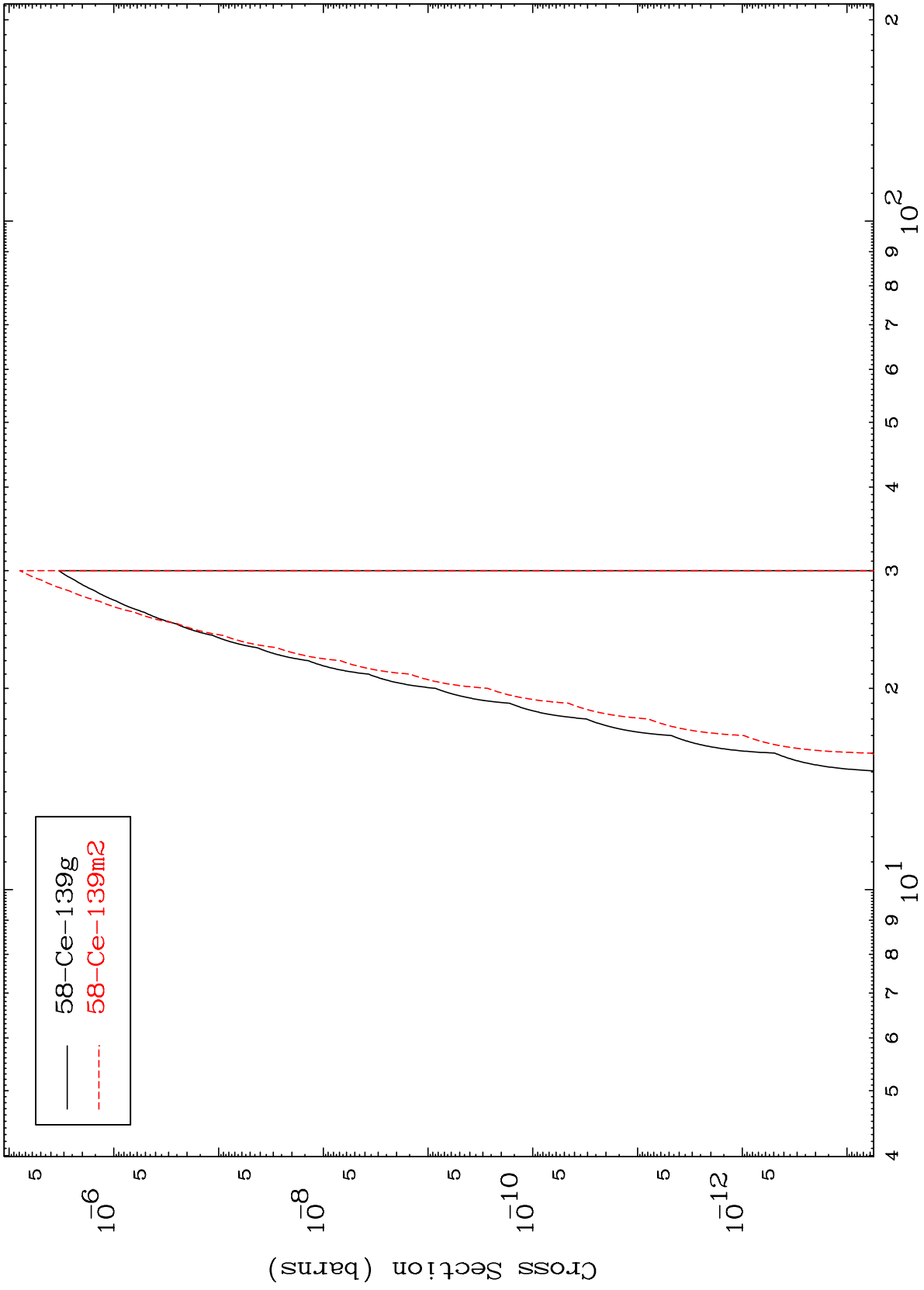
61-Pm-144

MAT 6140

(n,n') p α

61-Pm-144

Radionuclide Production Cross Section



125

Incident Energy (MeV)

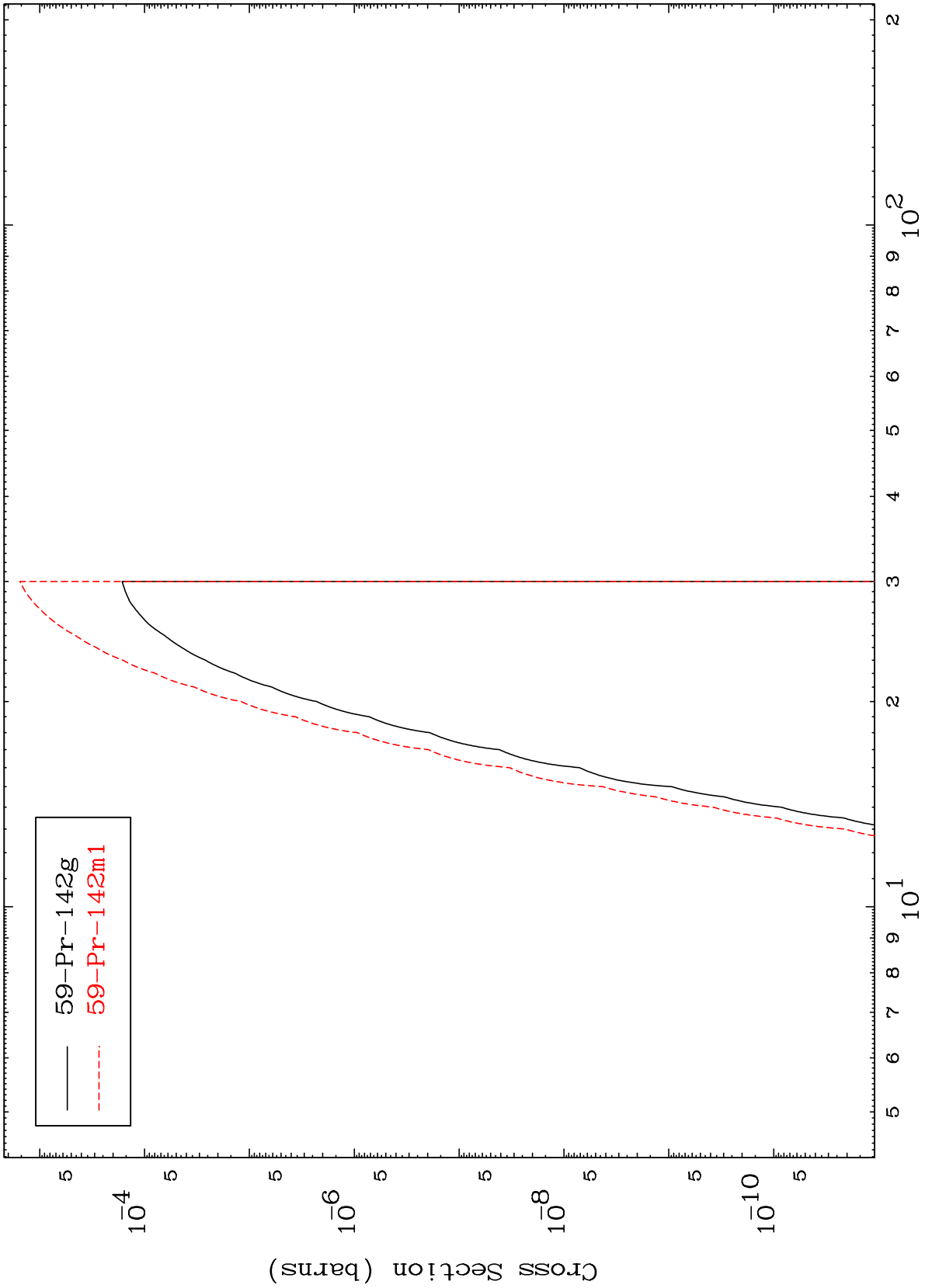
61-Pm-144

MAT 6140

(n, He-3)

61-Pm-144

Radionuclide Production Cross Section



59-Pr-142g
59-Pr-142m1

126

Incident Energy (MeV)

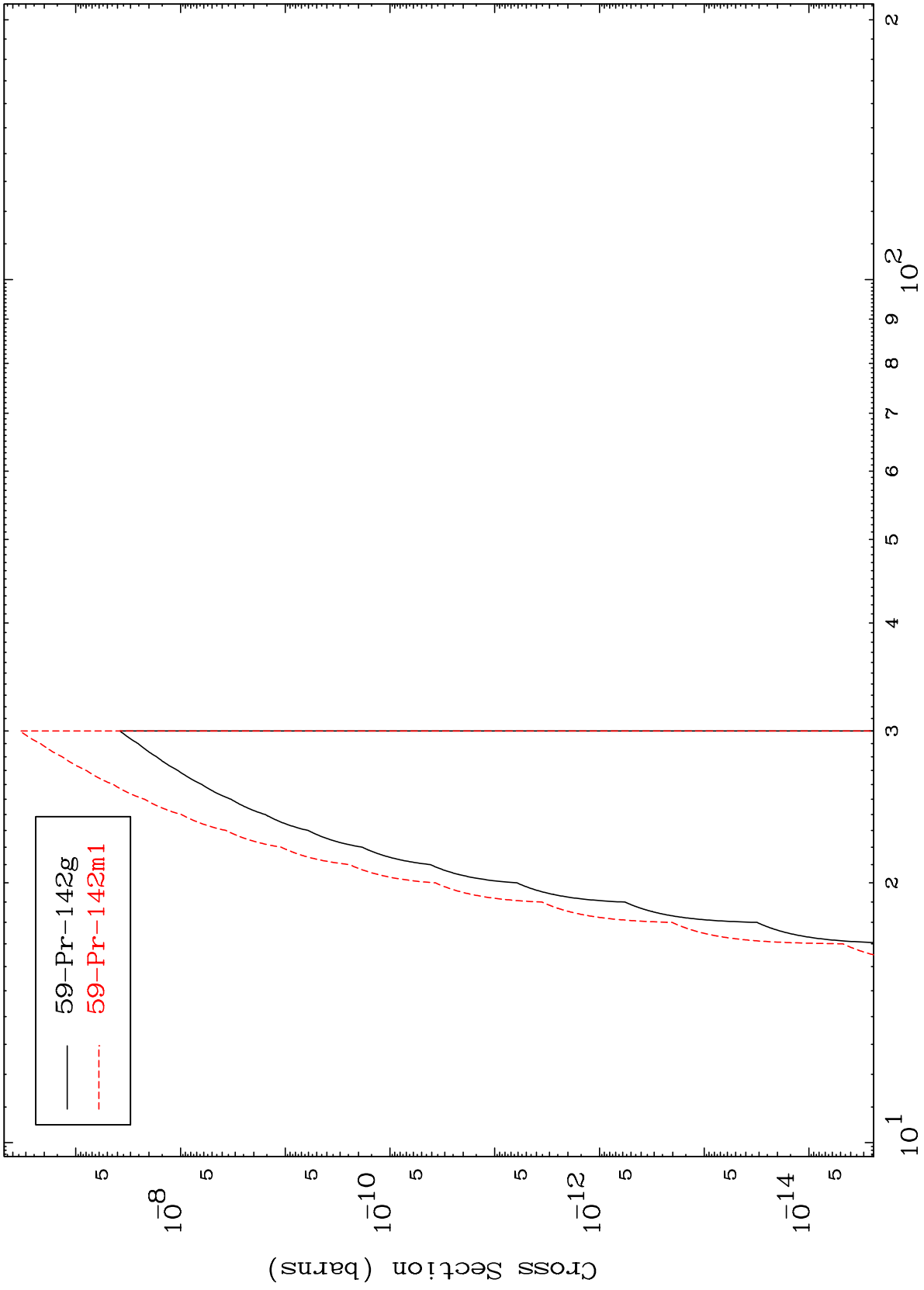
61-Pm-144

MAT 6140

(n,p) d

61-Pm-144

Radionuclide Production Cross Section



127

Incident Energy (MeV)

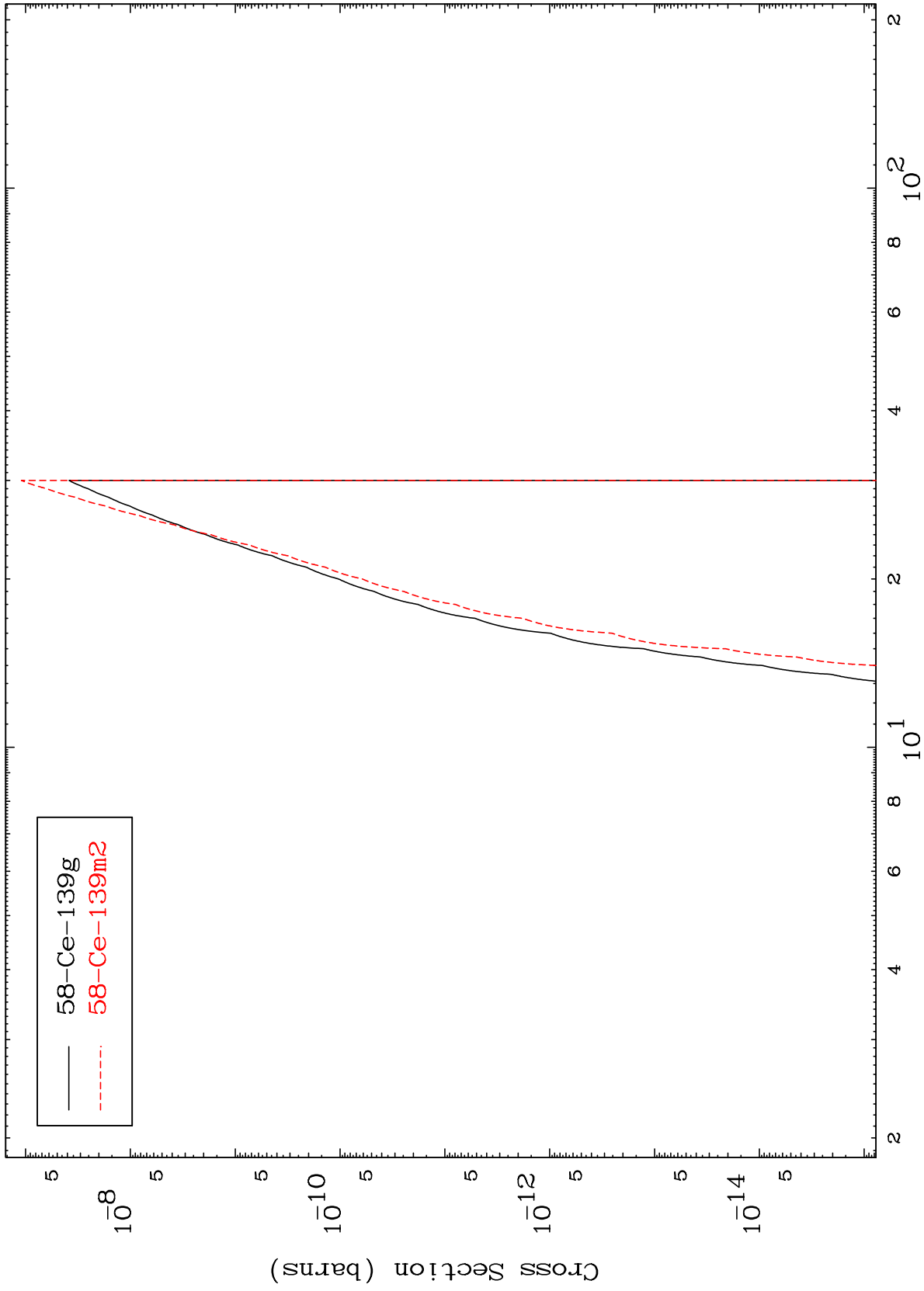
61-Pm-144

MAT 6140

(n,d) α

61-Pm-144

Radionuclide Production Cross Section



128

Incident Energy (MeV)

61-Pm-144