

Program EVALPLOT
(Version 2018-1)

by

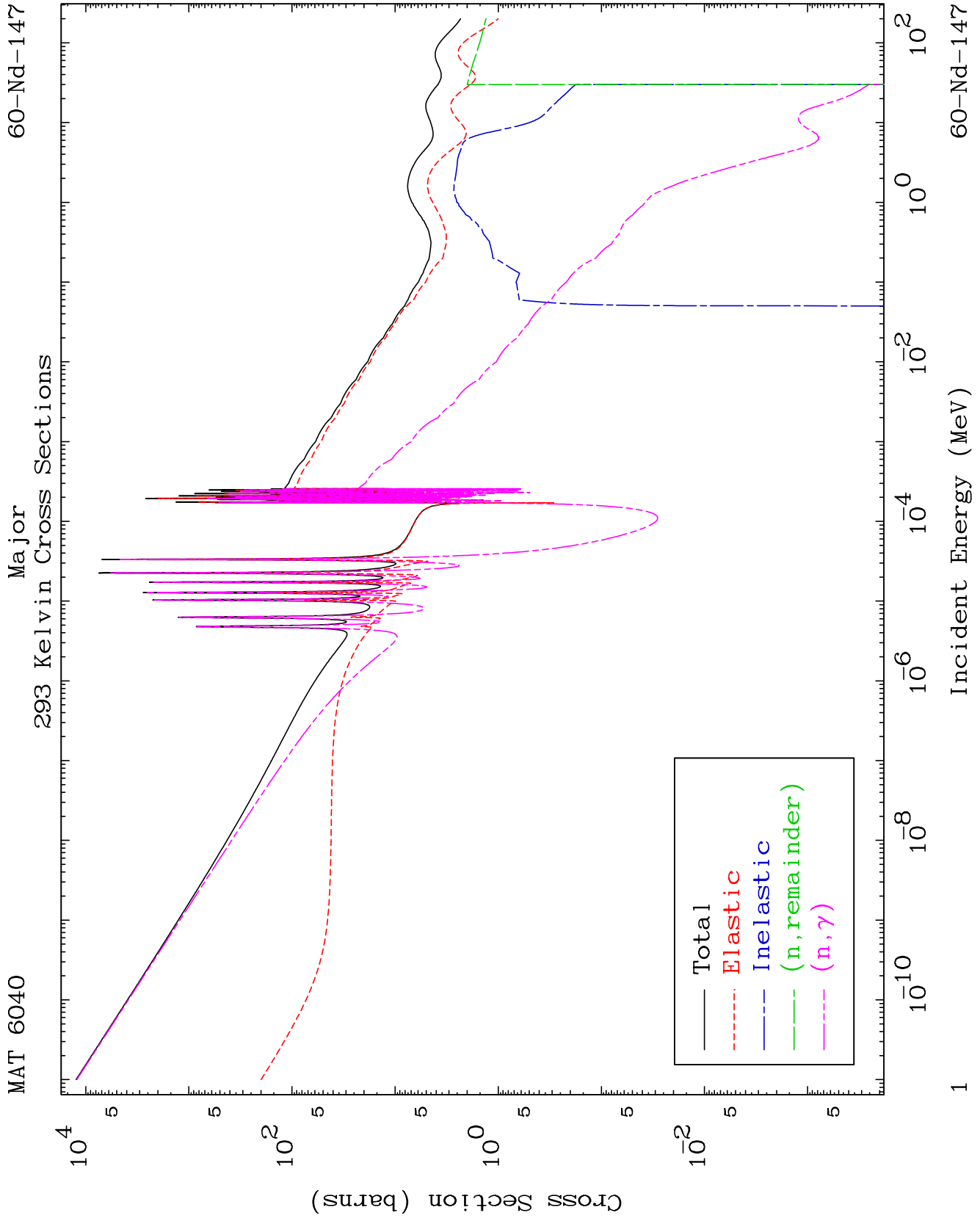
Dermott E. Cullen
(Present Contact Information)

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E.Mail:redcullen1@comcast.net
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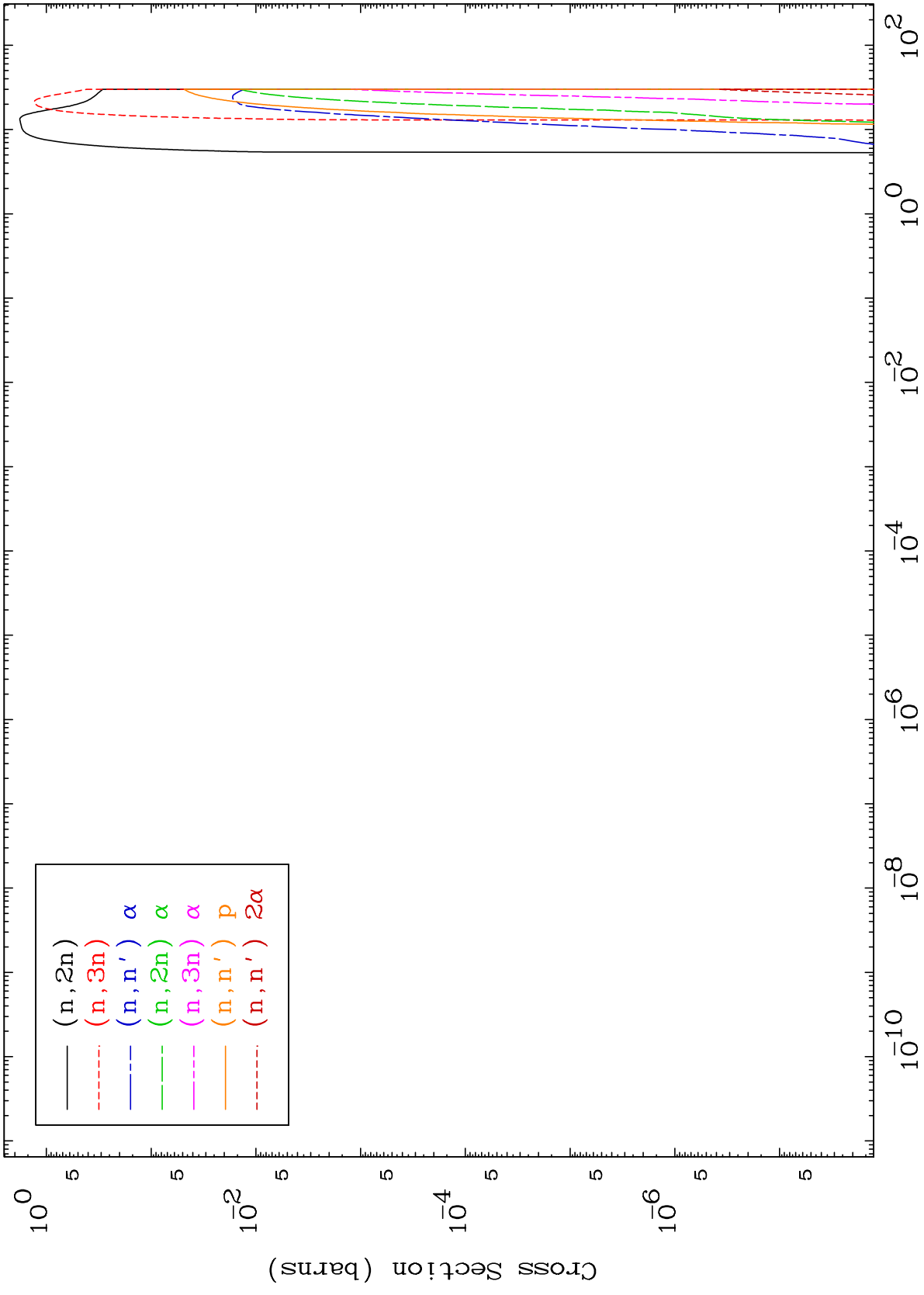
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MAT 6040

Neutron Production 293 Kelvin Cross Sections

60-Nd-147

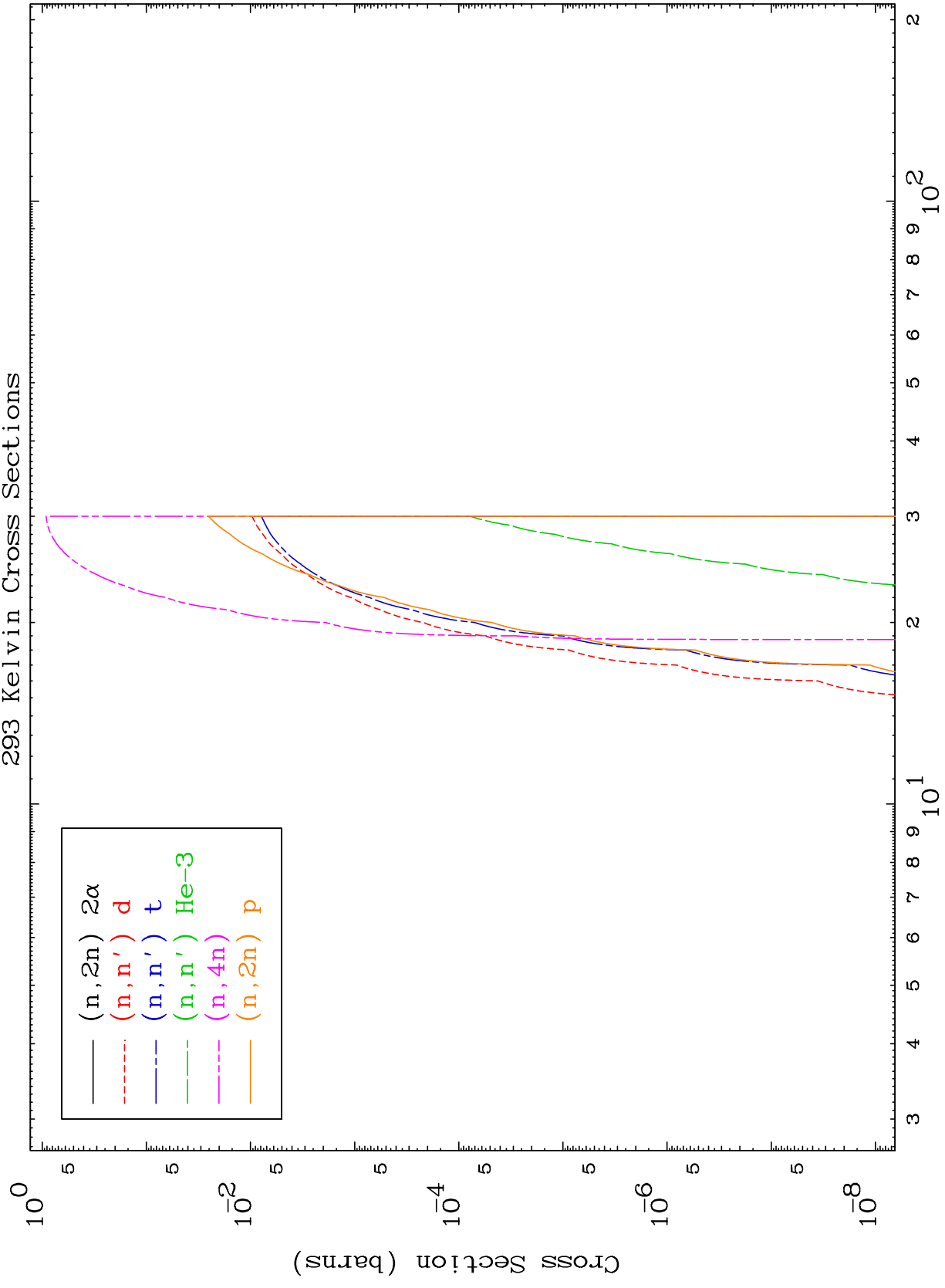


60-Nd-147

MAT 6040

Neutron Production
293 Kelvin Cross Sections

60-Nd-147



3

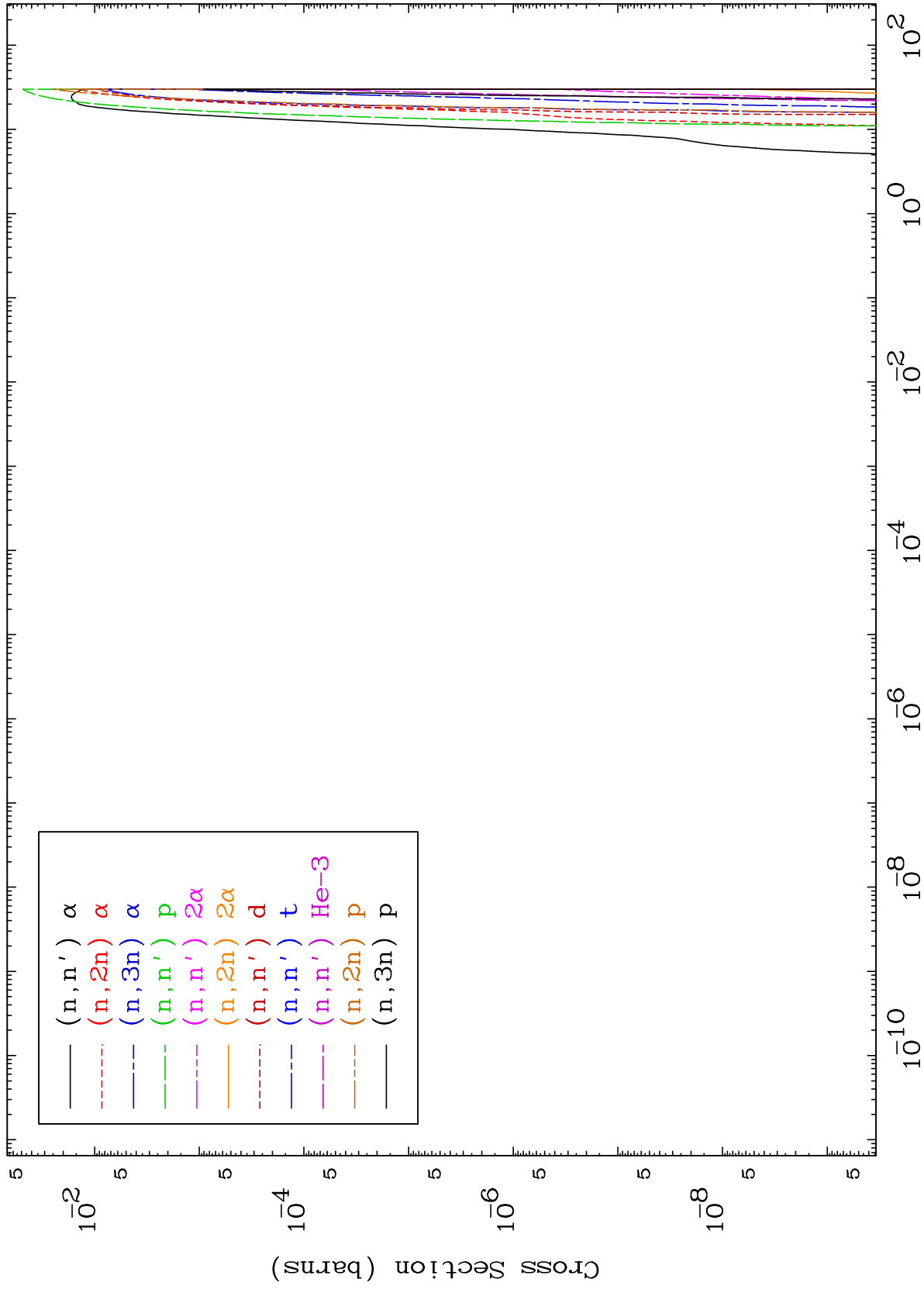
Incident Energy (MeV)

60-Nd-147

MAT 6040

293 Charged Particle
Kelvin Cross Sections

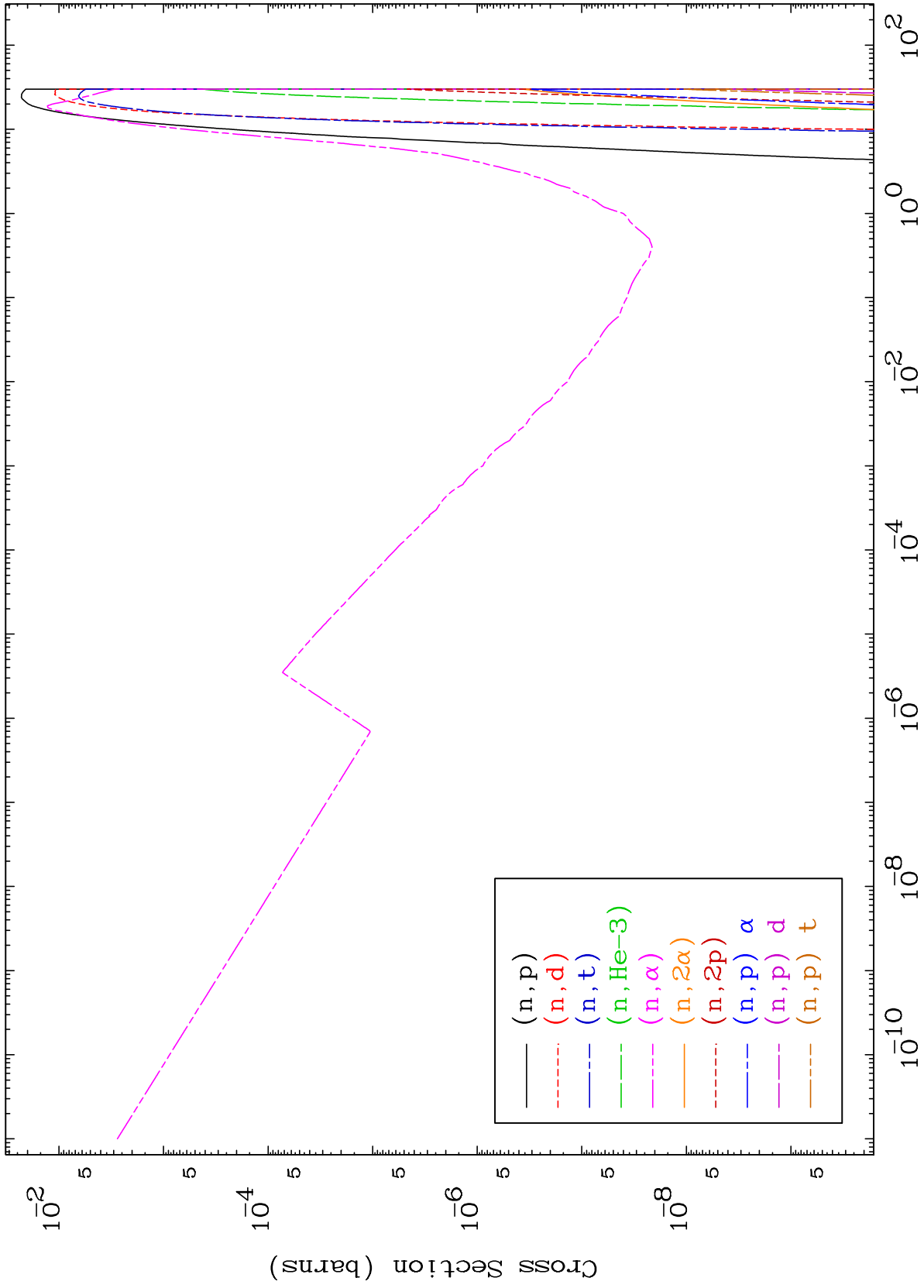
60-Nd-147



MAT 6040

Charged Particle
293 Kelvin Cross Sections

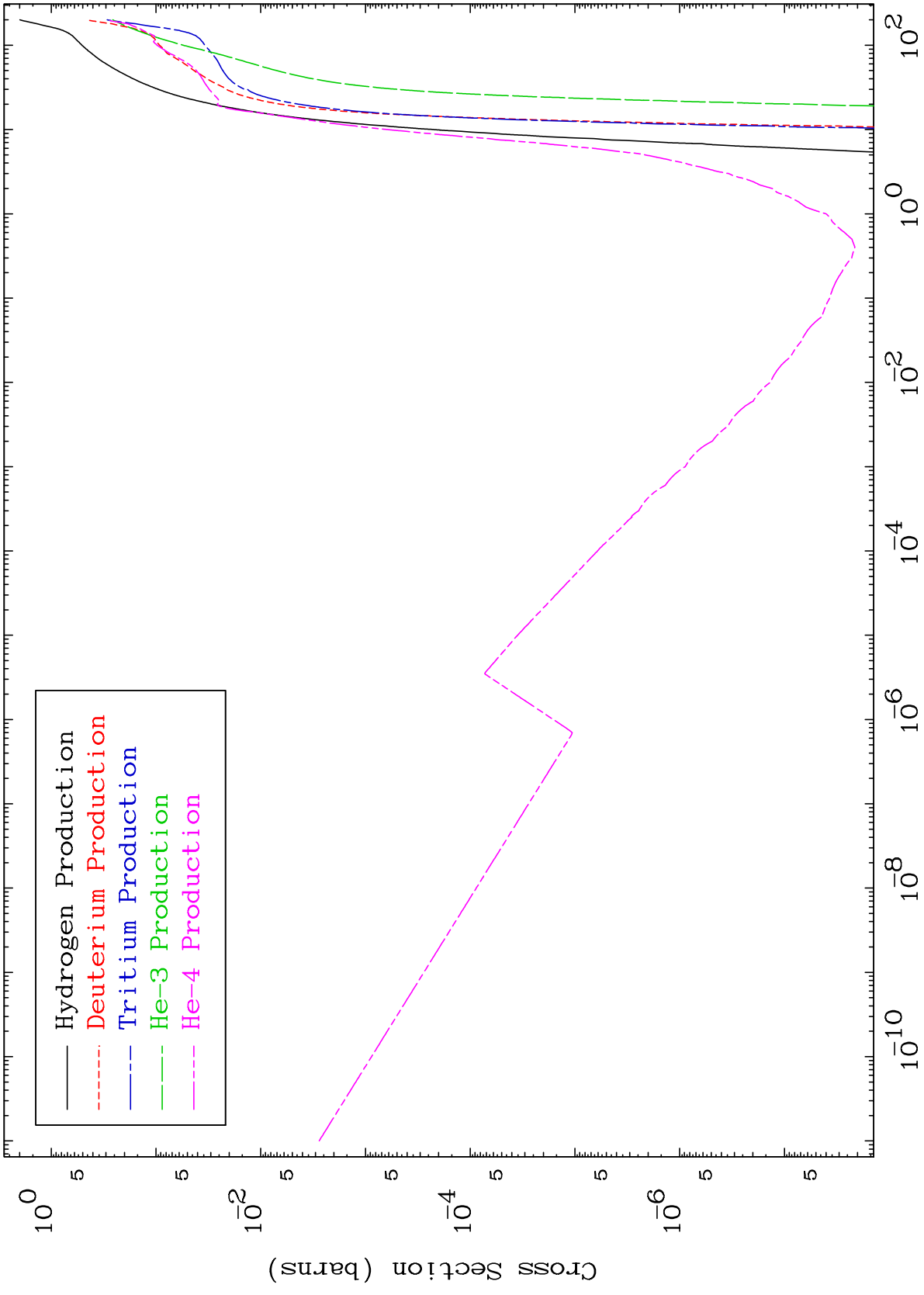
60-Nd-147



MAT 6040

Particle Production
293 Kelvin Cross Sections

60-Nd-147



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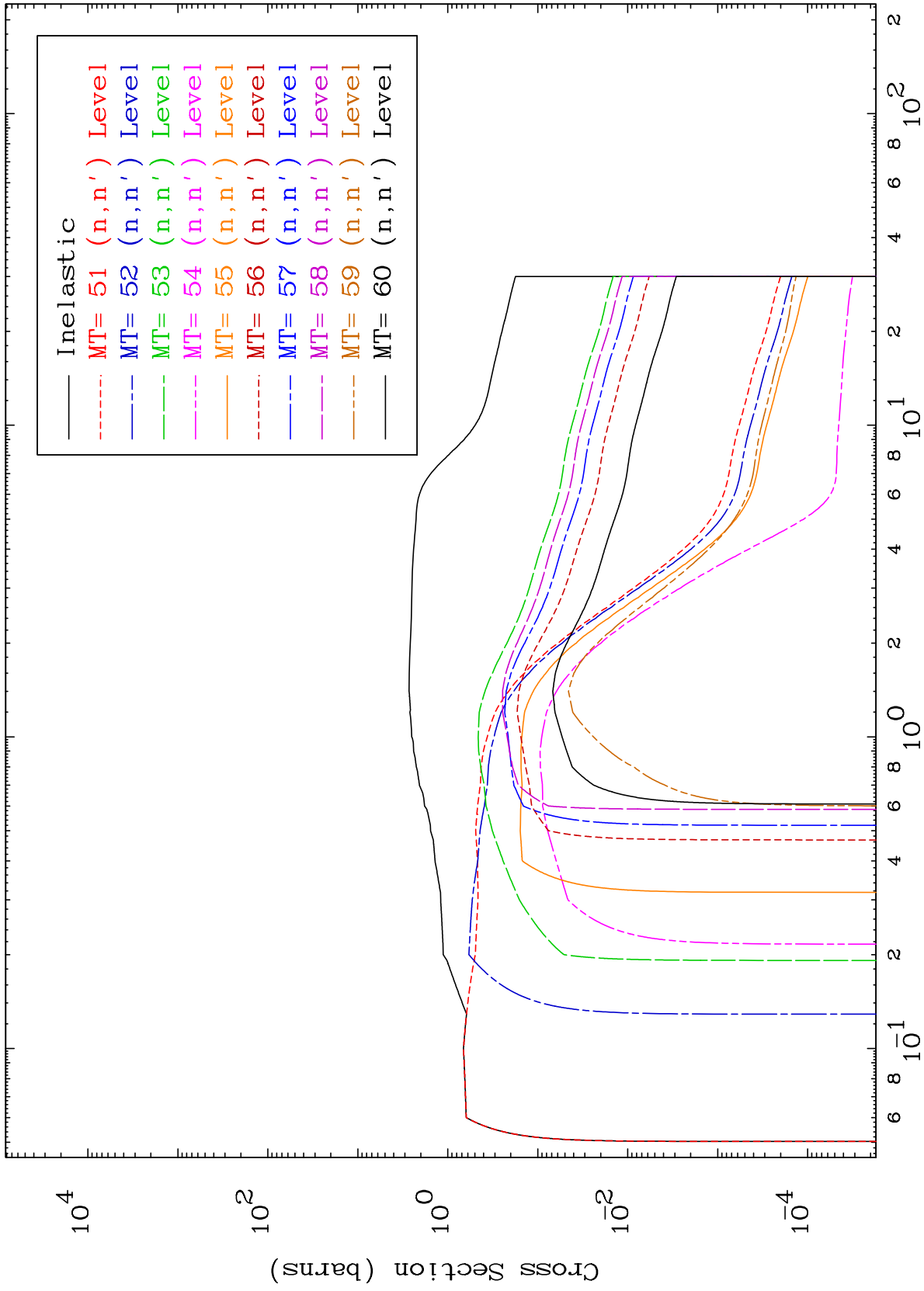
60-Nd-147

MAT 6040

(n,n') Level

60-Nd-147

293 Kelvin Cross Sections

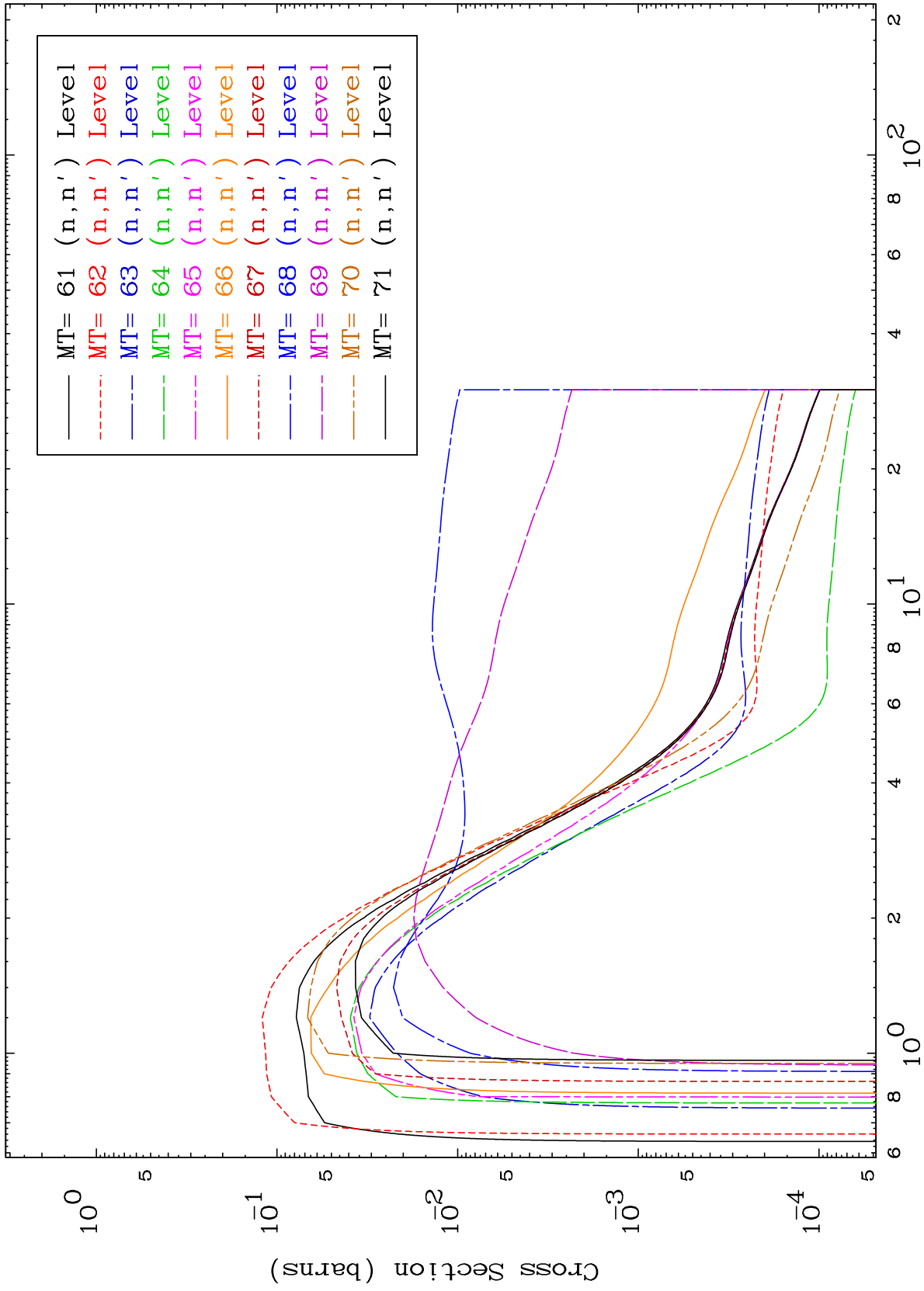


MAT 6040

(n,n') Level

60-Nd-147

293 Kelvin Cross Sections



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Incident Energy (MeV)

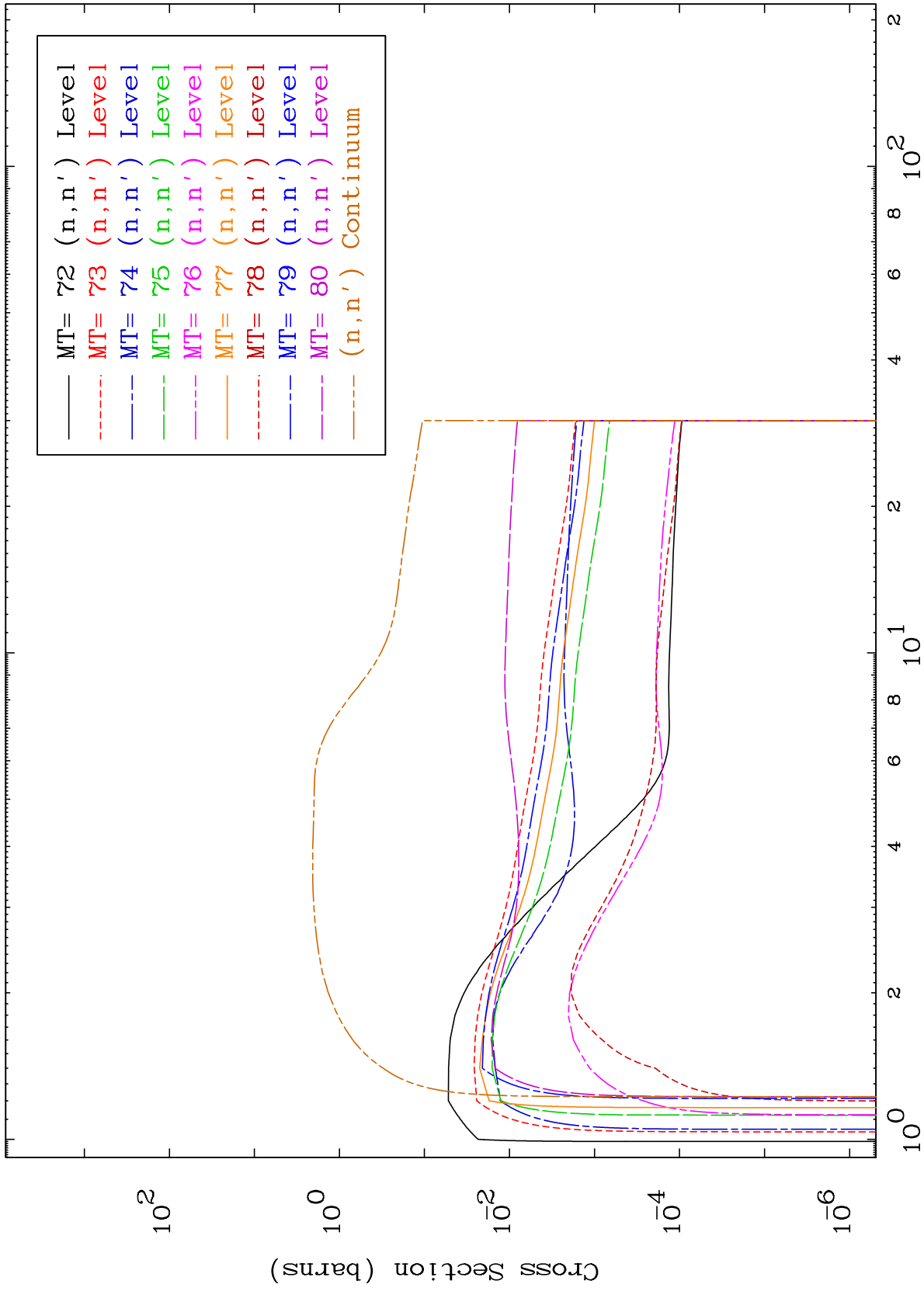
60-Nd-147

MAT 6040

(n,n') Level

60-Nd-147

293 Kelvin Cross Sections



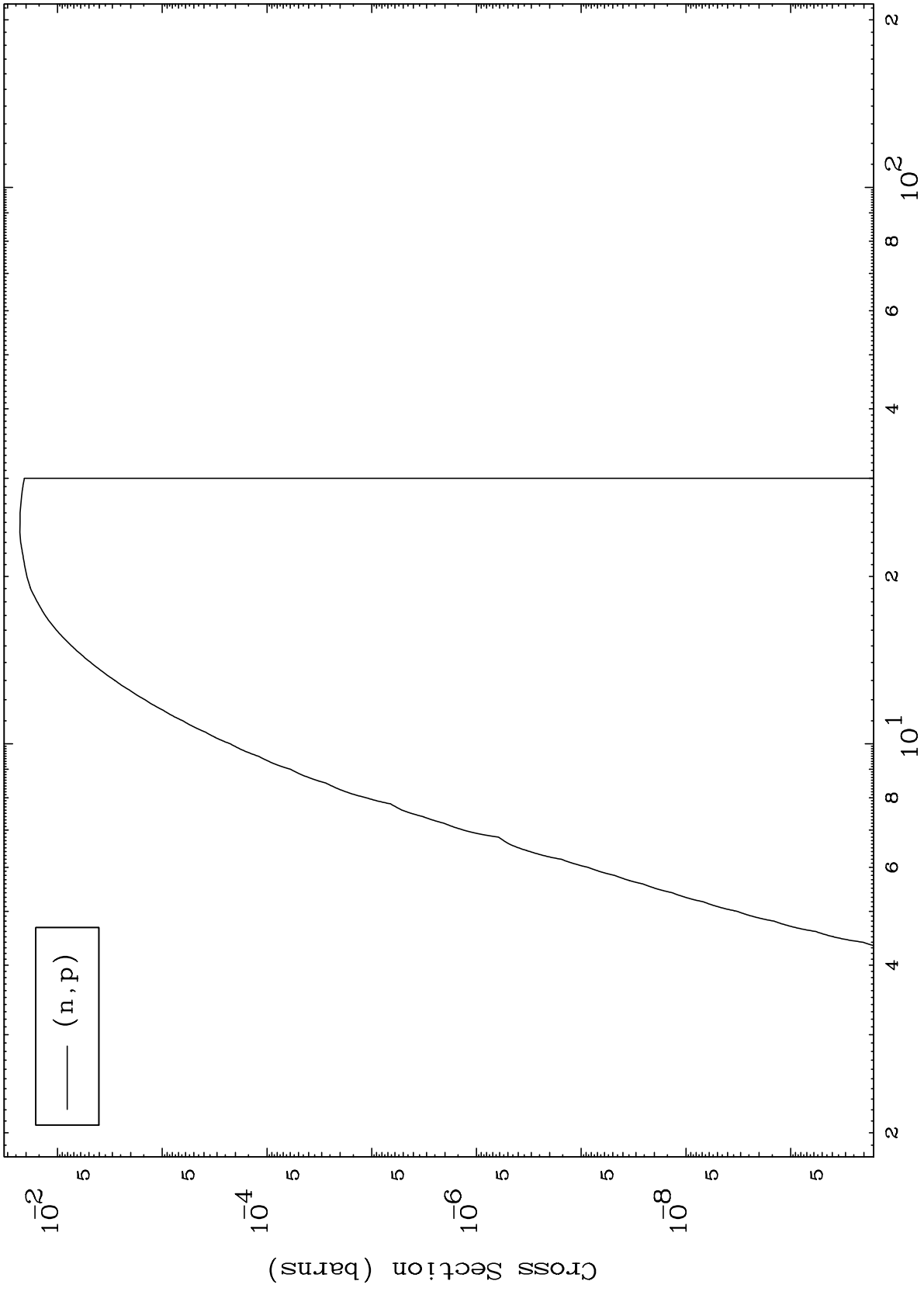
Incident Energy (MeV)

60-Nd-147

MAT 6040

(n,p) Levels
293 Kelvin Cross Sections

60-Nd-147



10

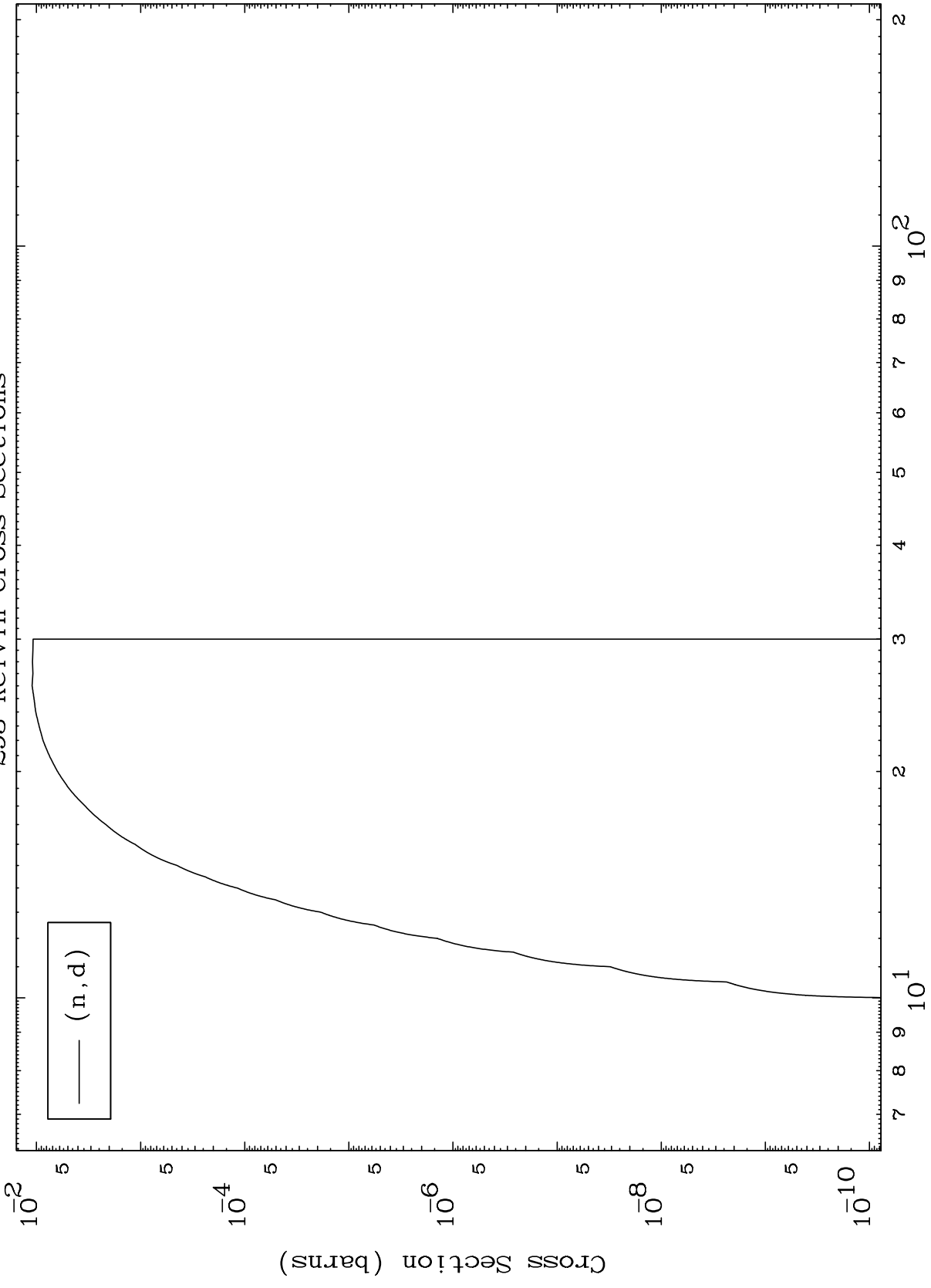
Incident Energy (MeV)

60-Nd-147

MAT 6040

(n,d) Levels
293 Kelvin Cross Sections

60-Nd-147



11

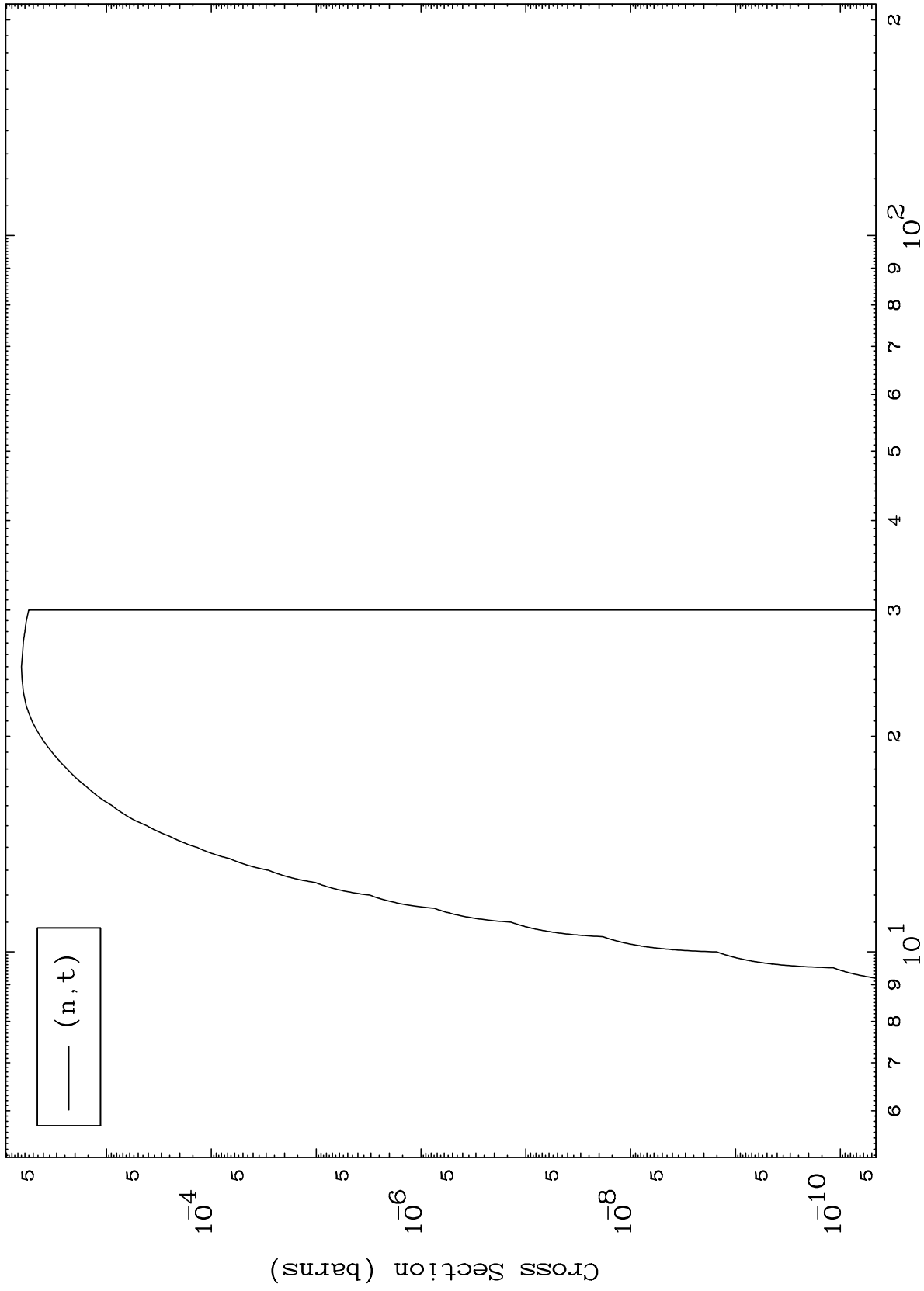
Incident Energy (MeV)

60-Nd-147

MAT 6040

(n,t) Levels
293 Kelvin Cross Sections

60-Nd-147



12

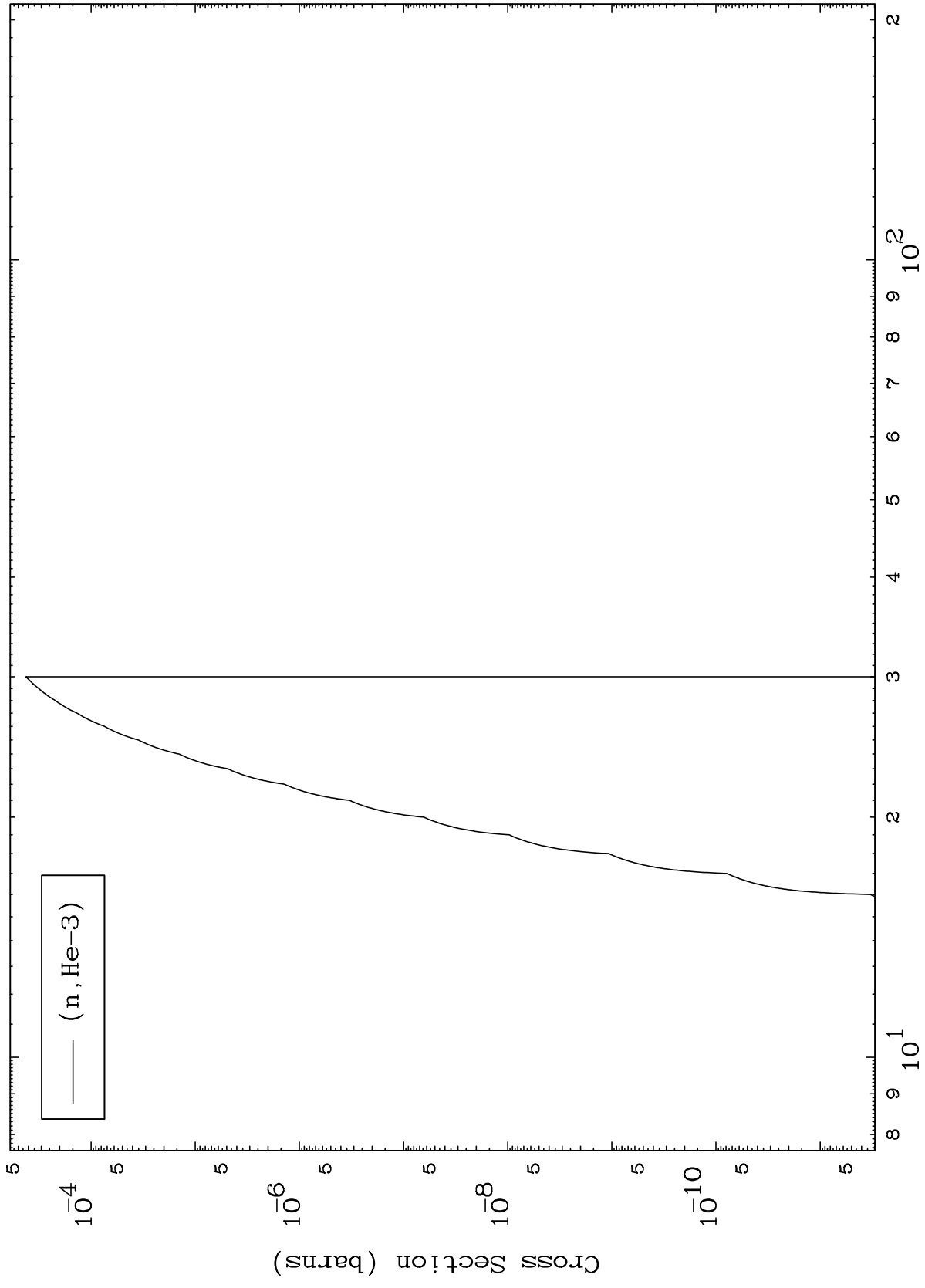
Incident Energy (MeV)

60-Nd-147

MAT 6040

(n,He3) Levels
293 Kelvin Cross Sections

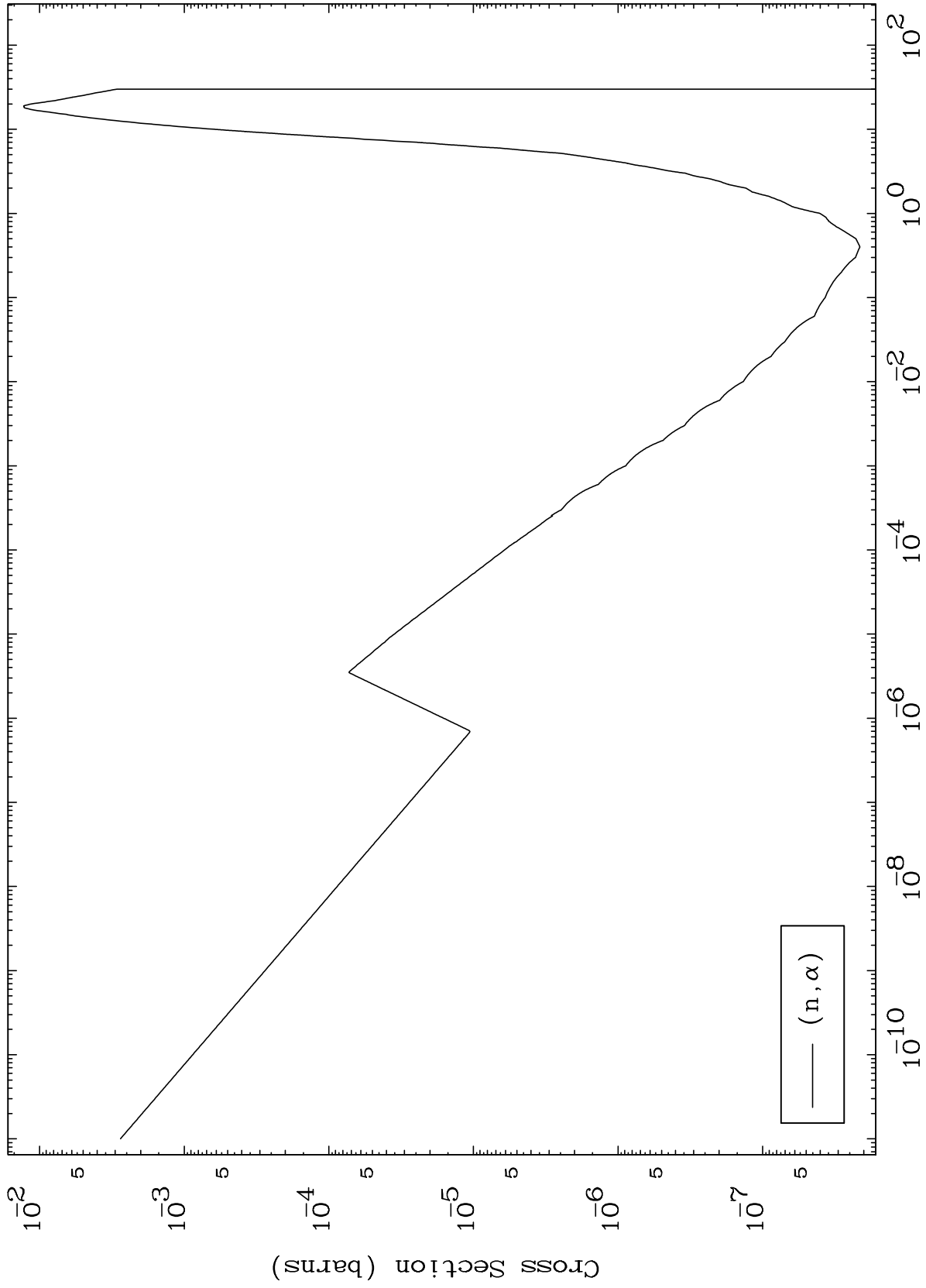
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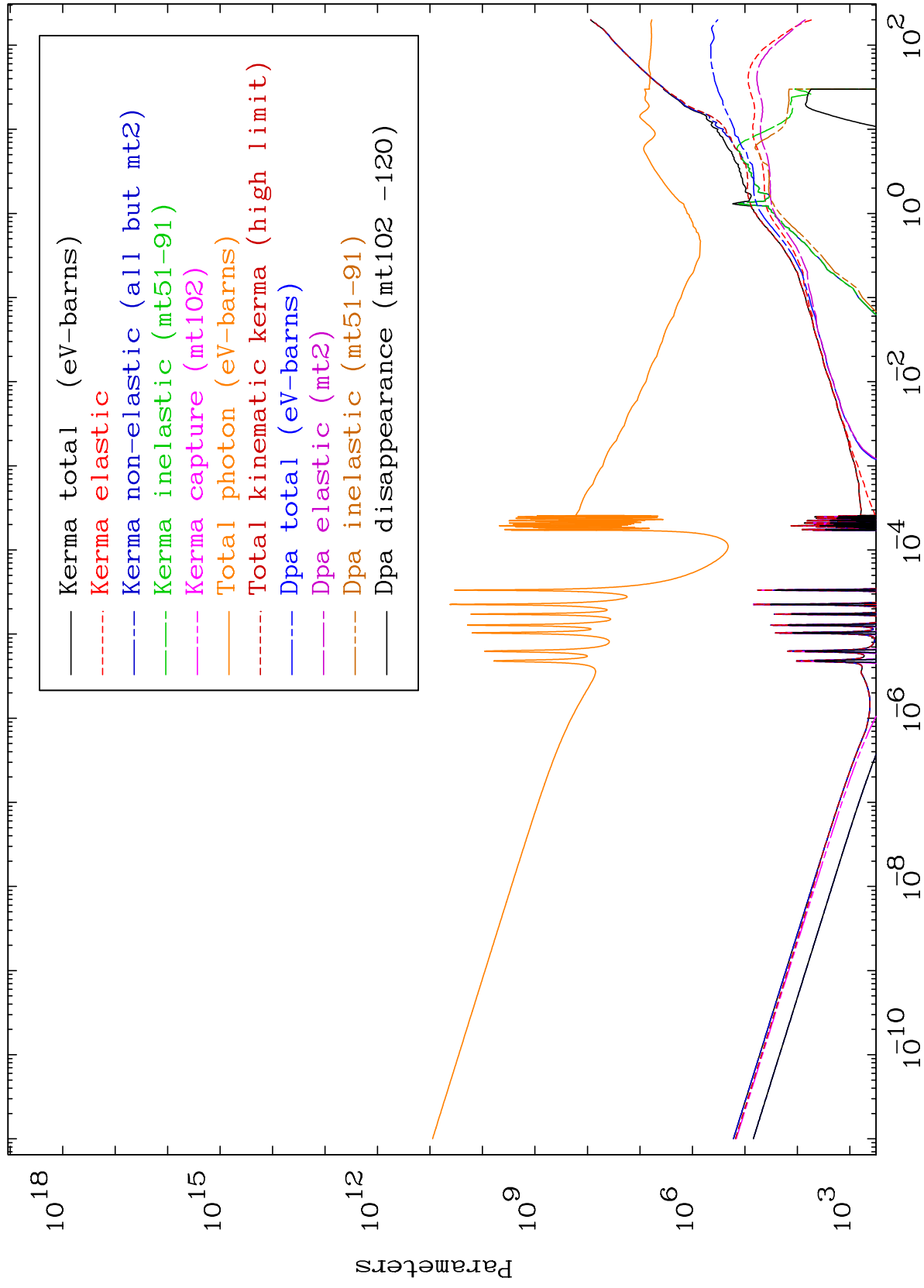


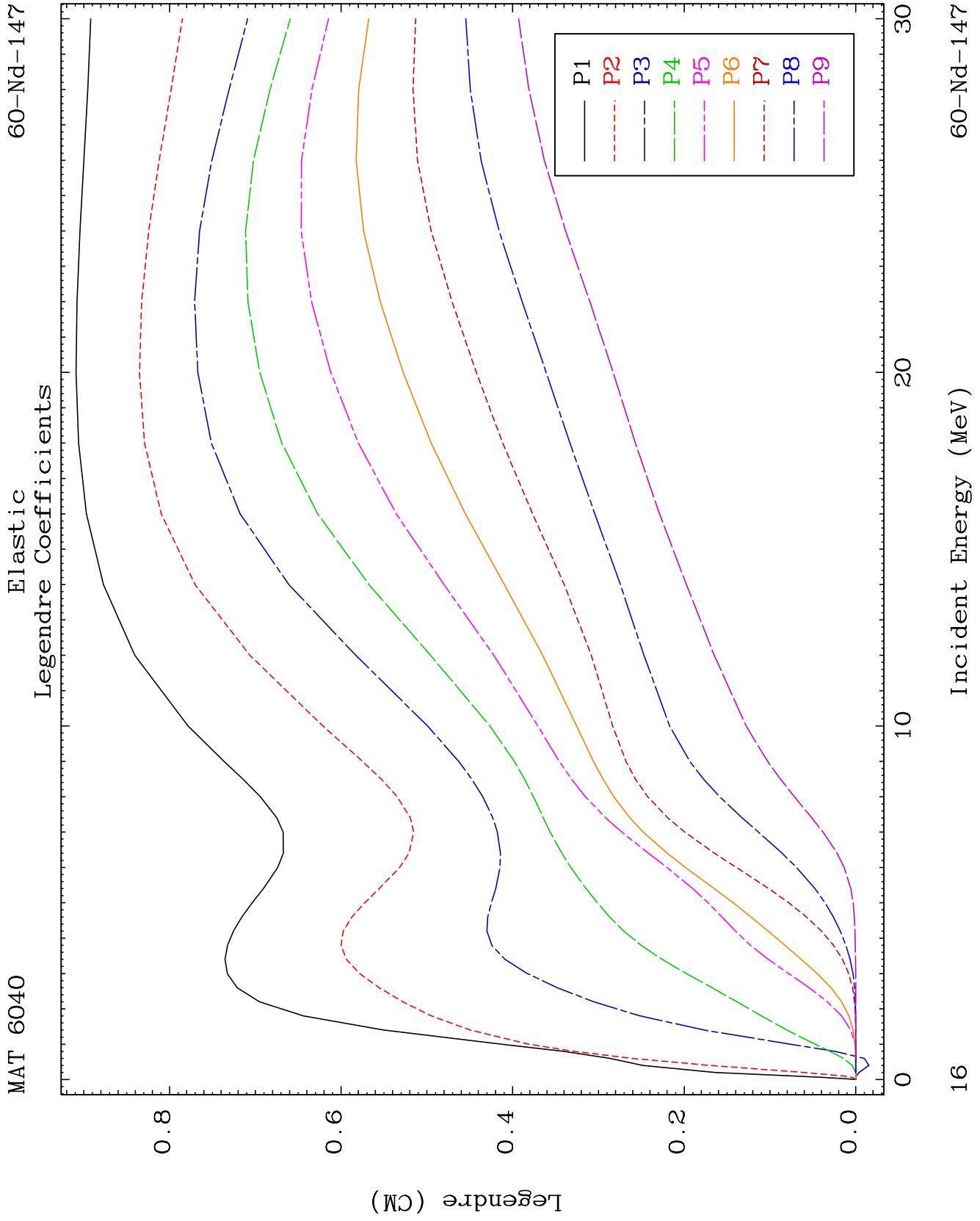
MAT 6040

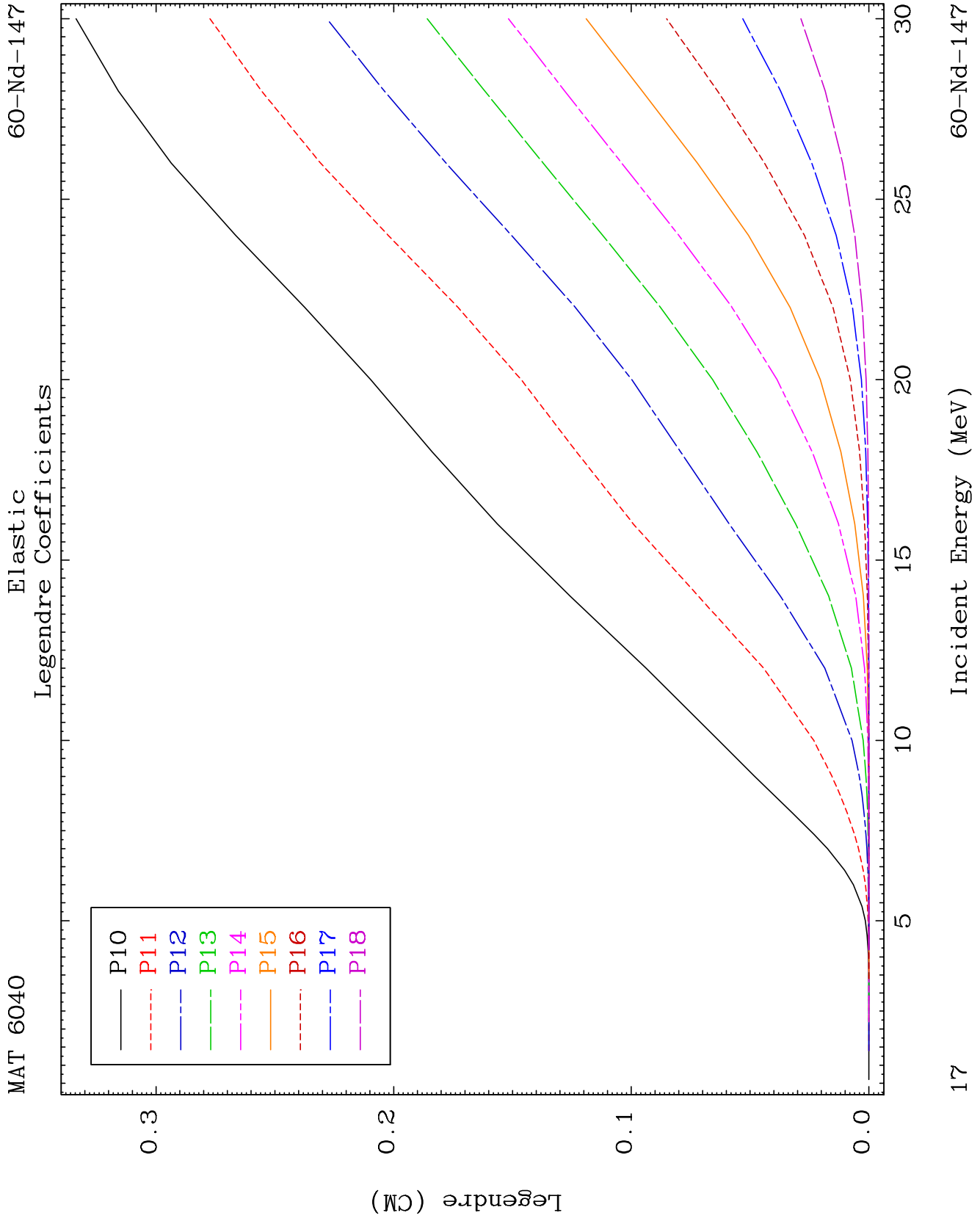
(n,α) Levels
293 Kelvin Cross Sections

60-Nd-147





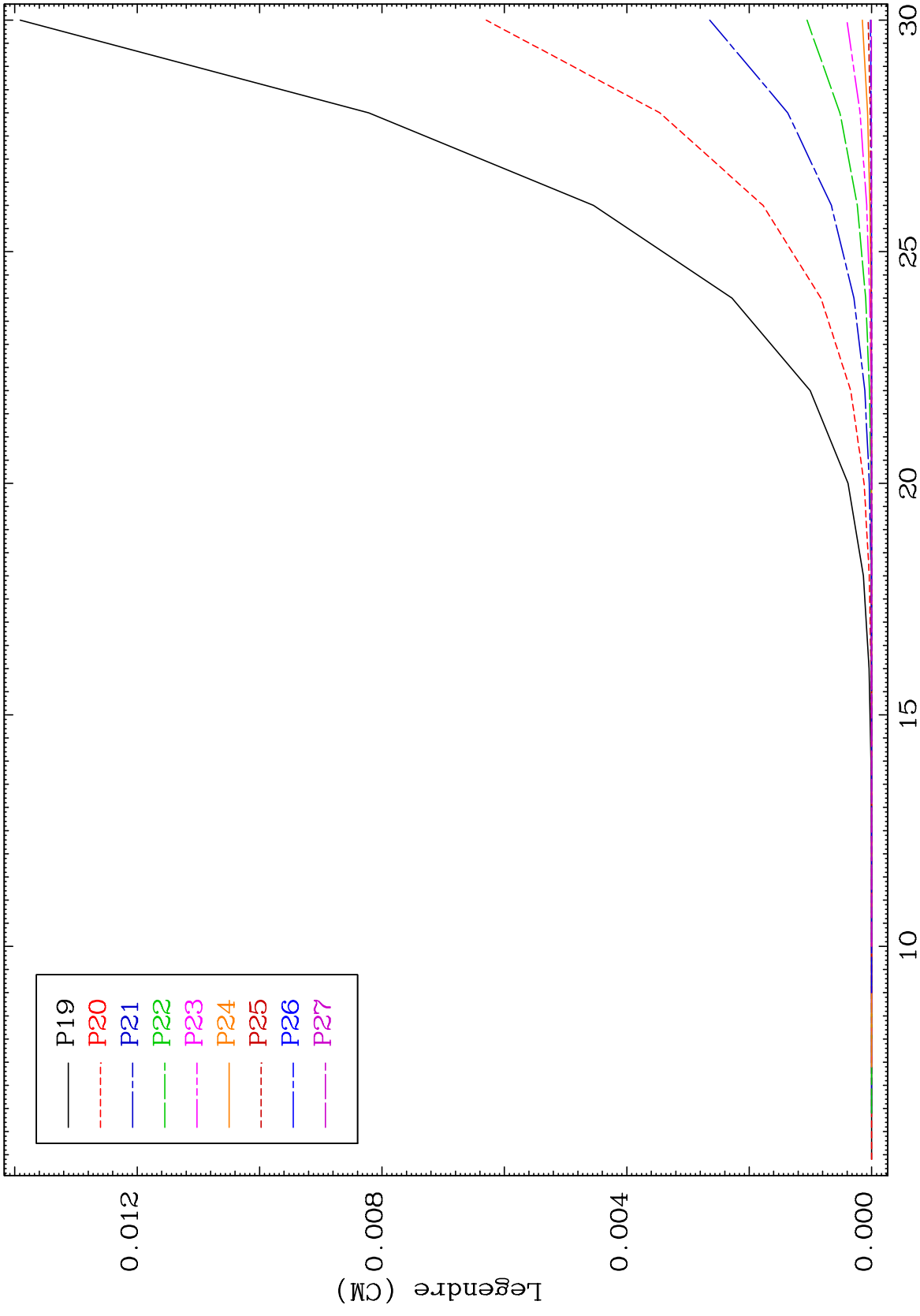




MAT 6040

Elastic Legendre Coefficients

60-Nd-147



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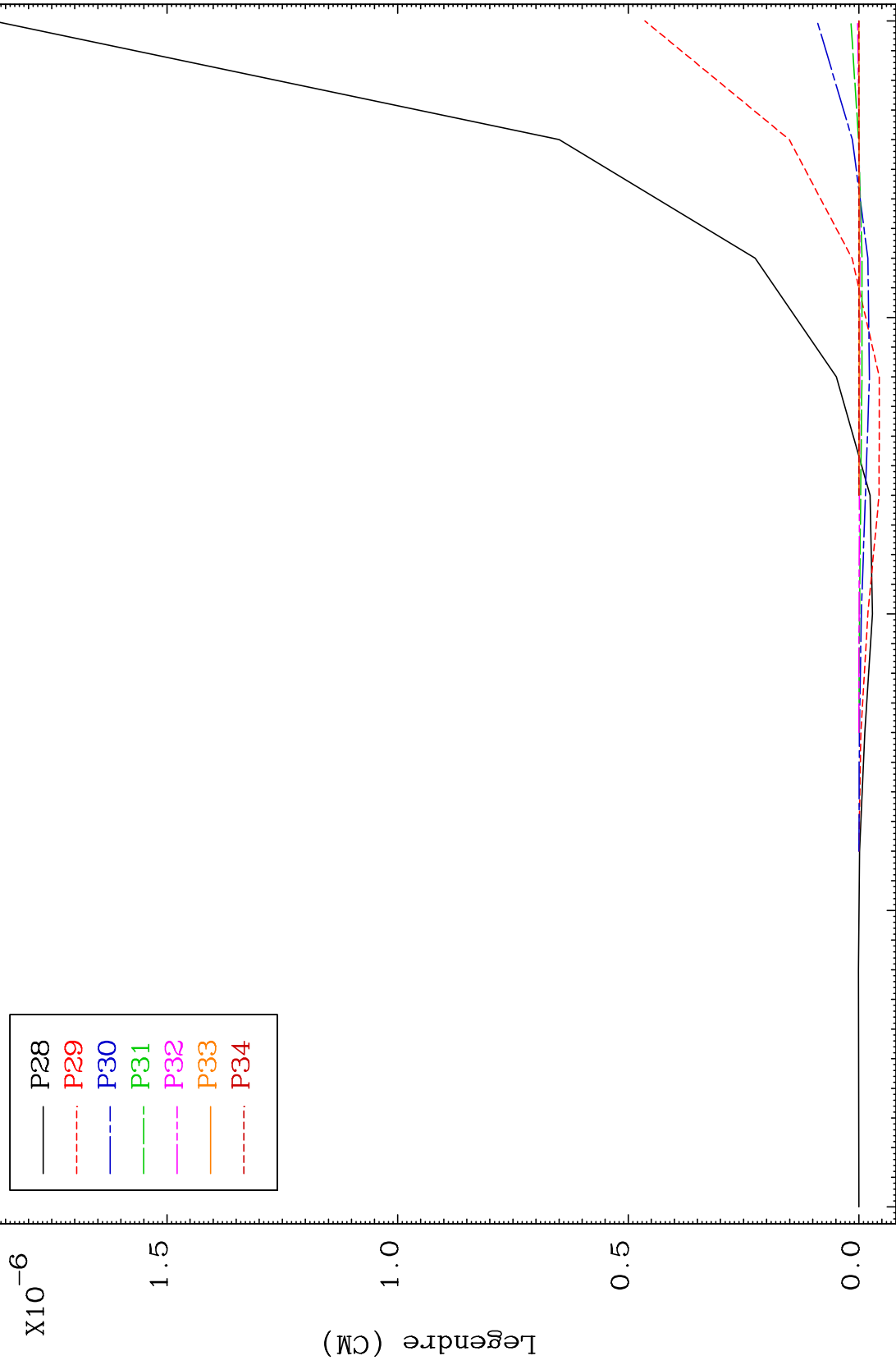
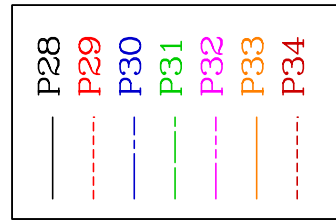
Incident Energy (MeV)

60-Nd-147

MAT 6040

Elastic Legendre Coefficients

60-Nd-147

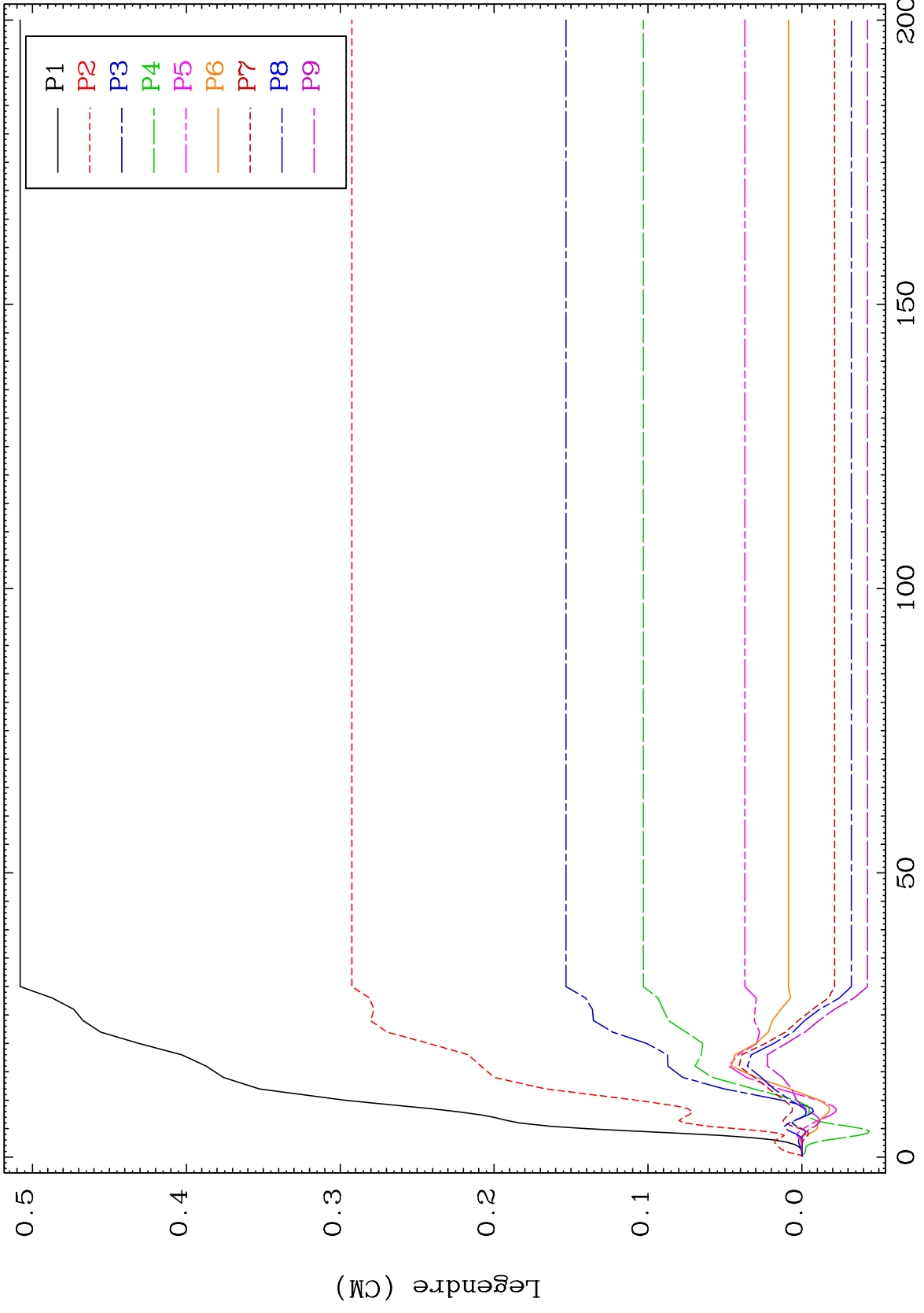


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Incident Energy (MeV)

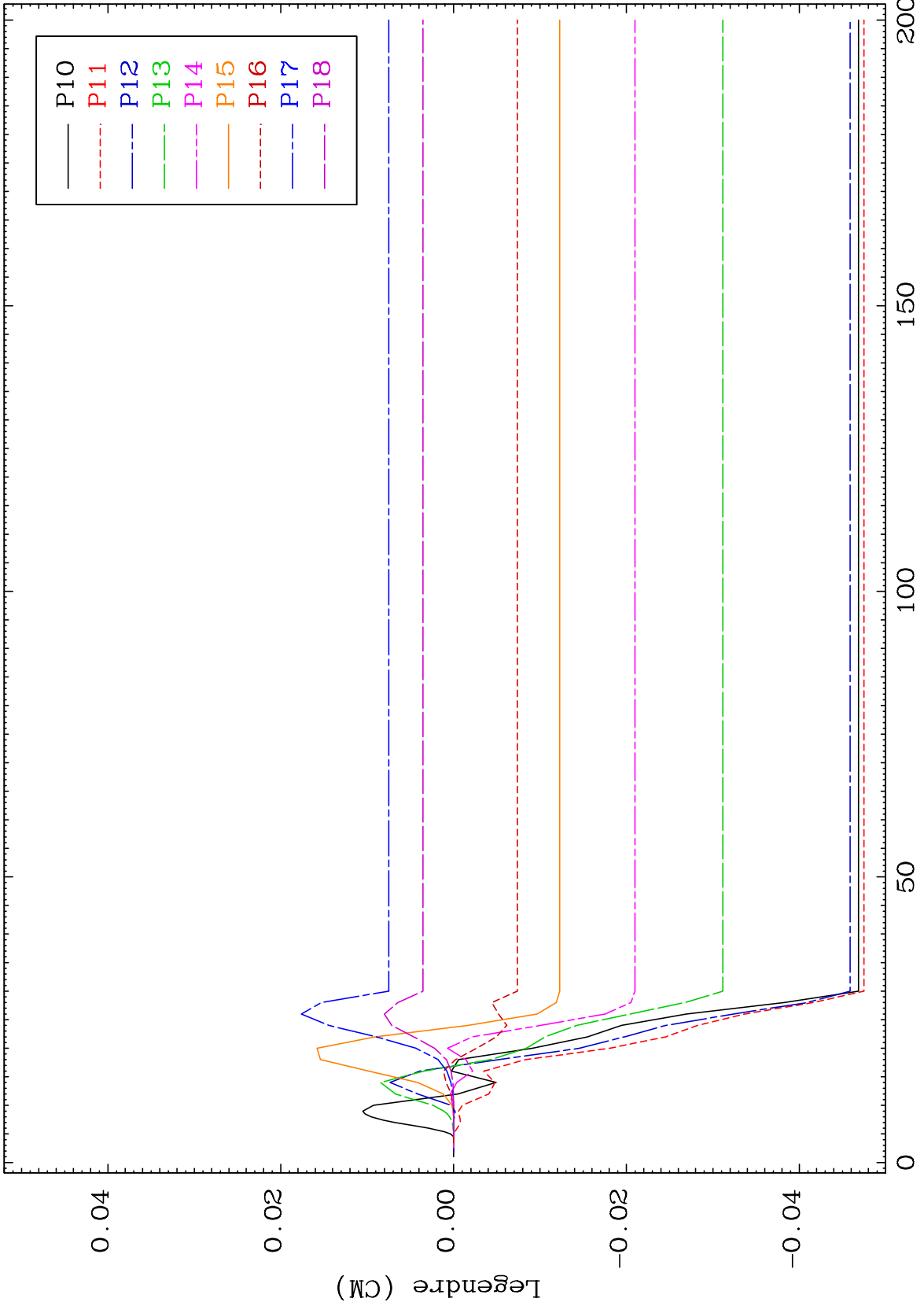
60-Nd-147

MAT 6040 MT= 51 (n,n') Level Legendre Coefficients 60-Nd-147



Legendre (CM) Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 51 (n,n') Level Legendre Coefficients 60-Nd-147

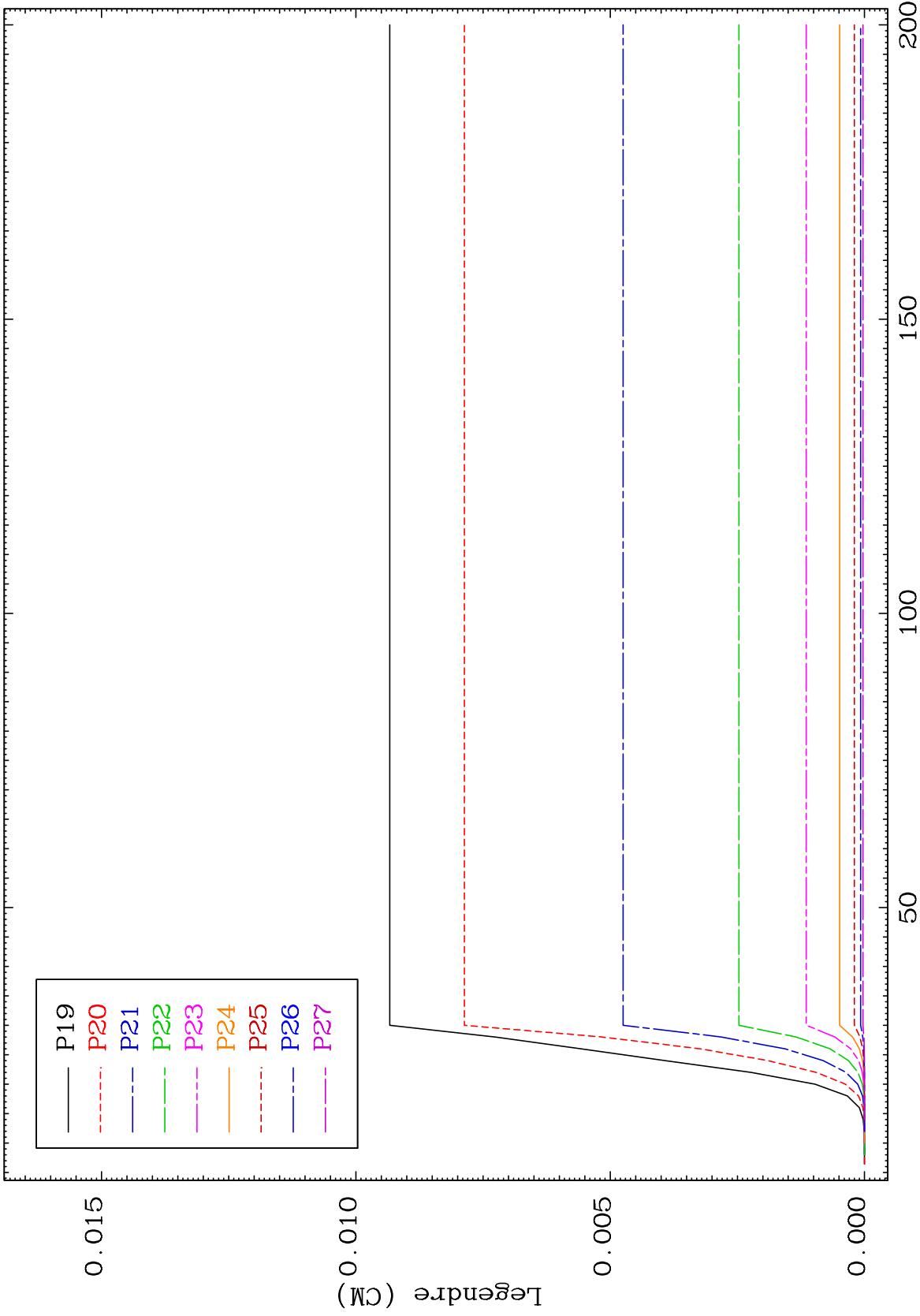


21 60-Nd-147

MAT 6040

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

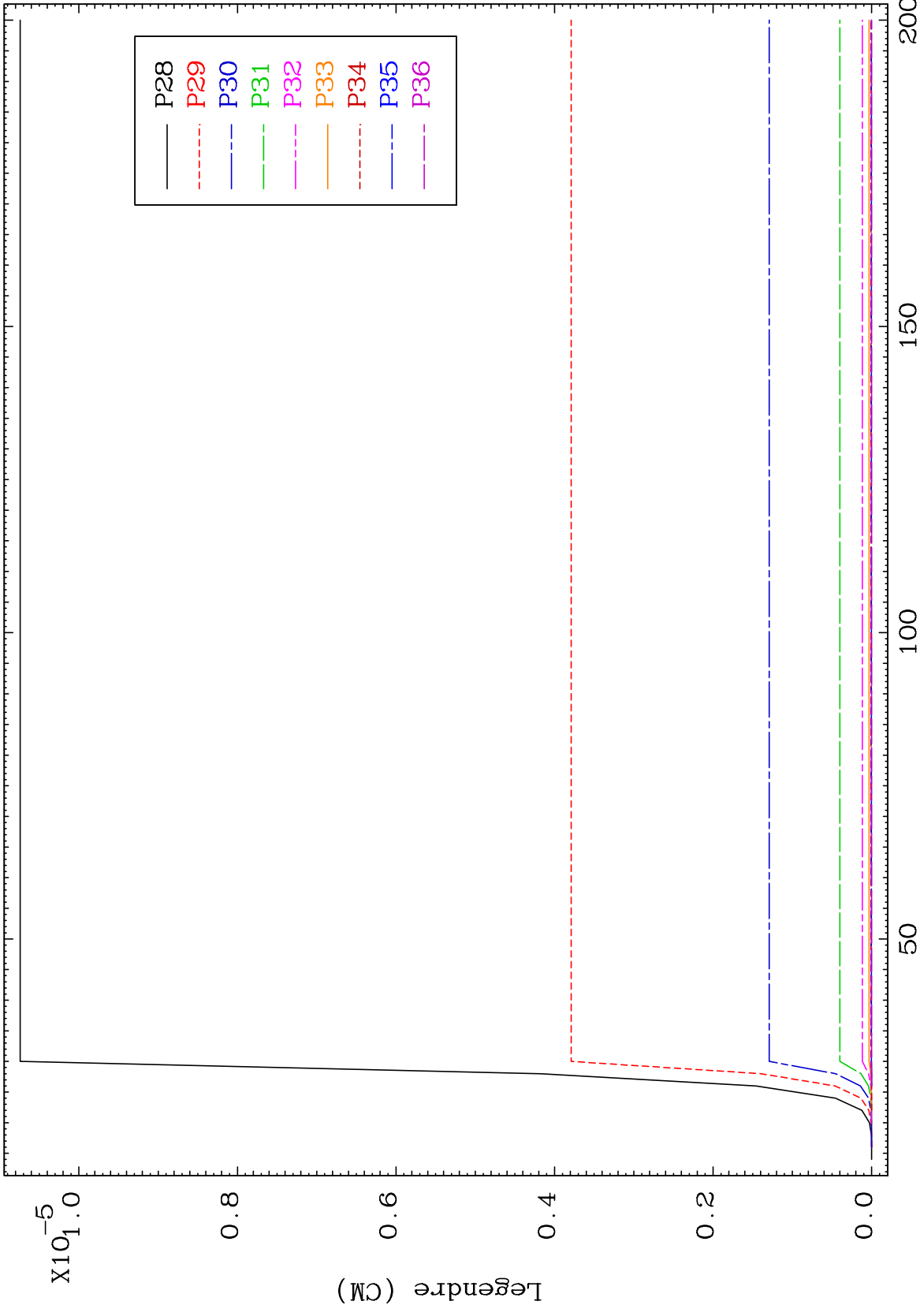
60-Nd-147



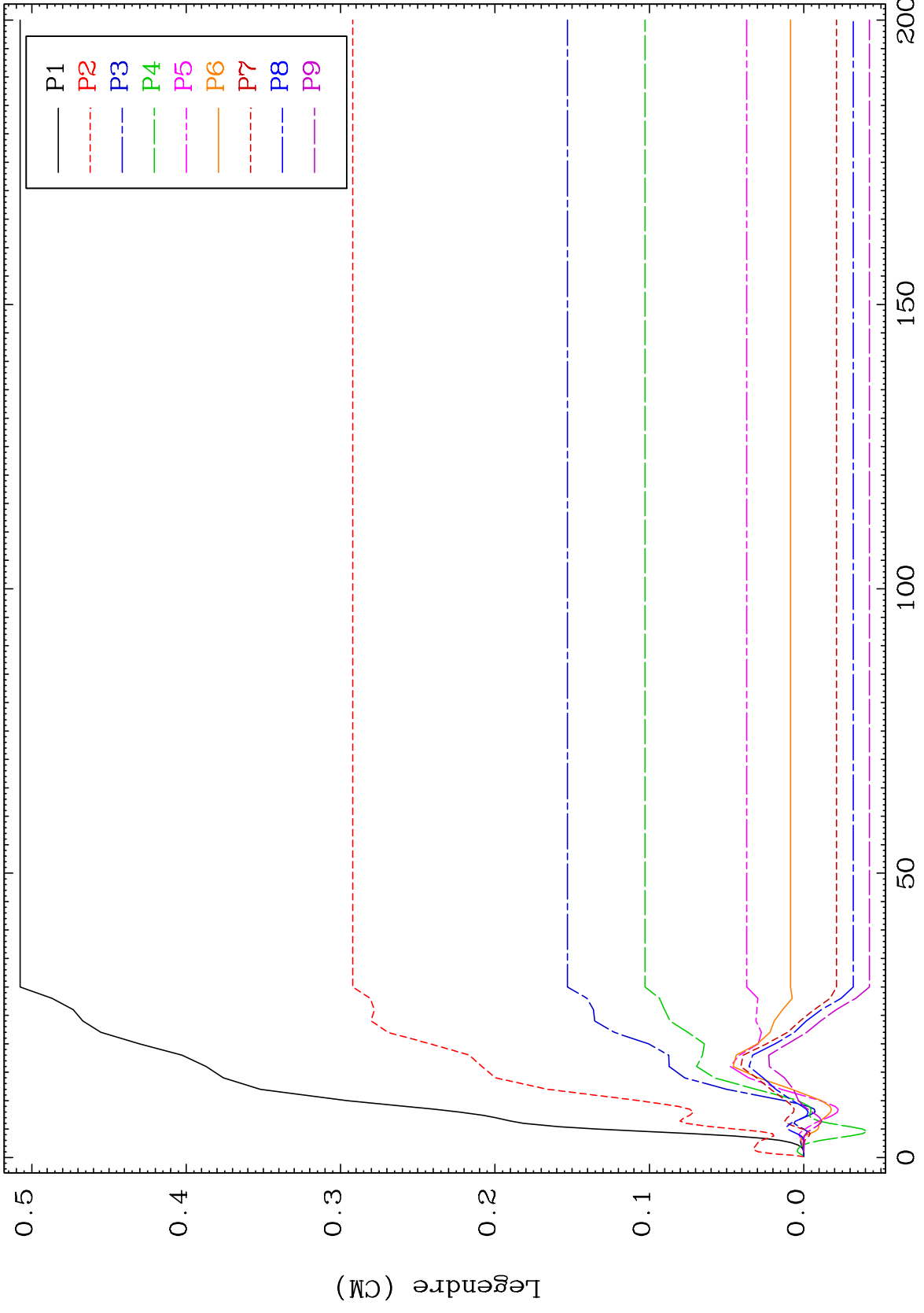
22

Incident Energy (MeV)

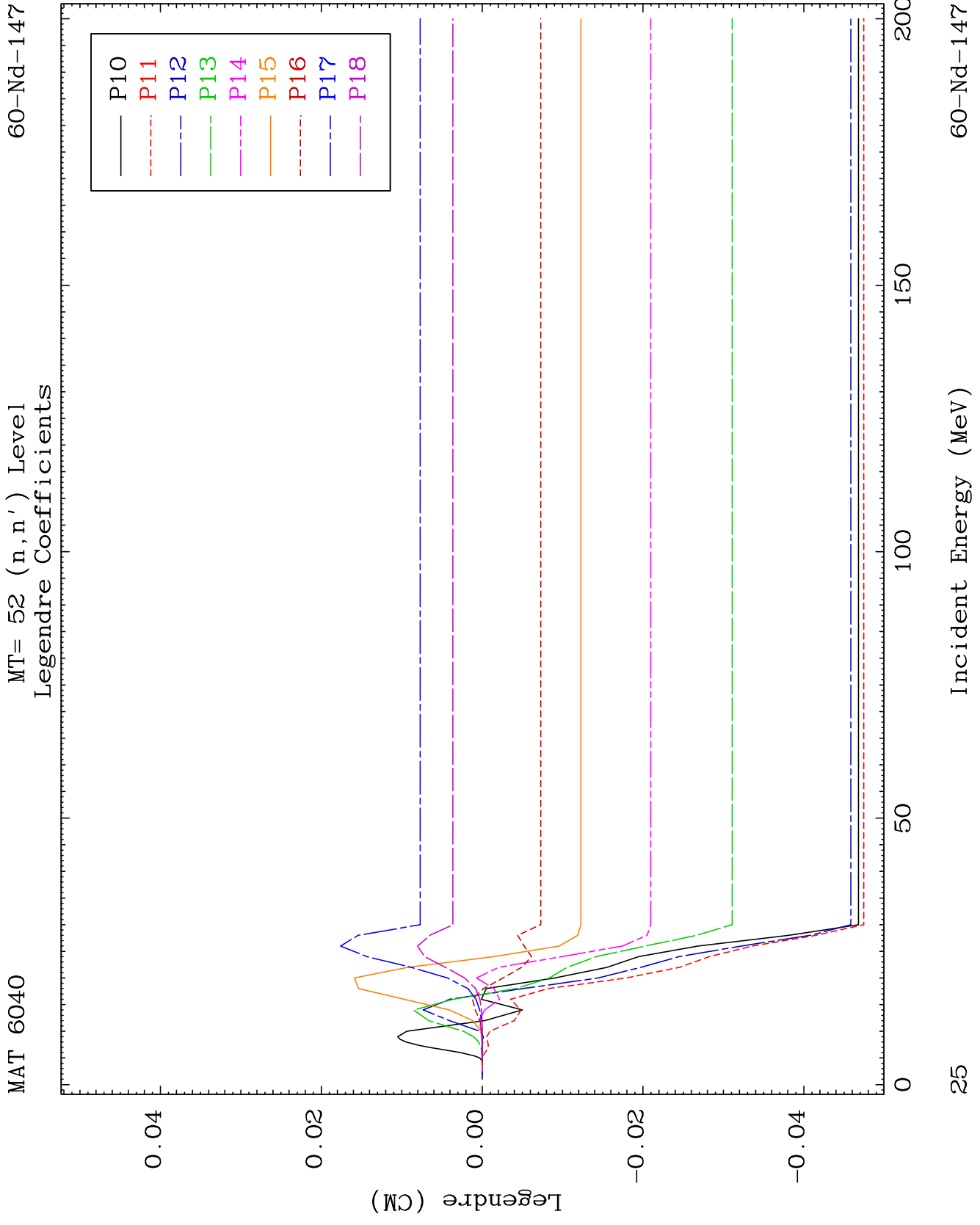
60-Nd-147



MAT 6040 MT= 52 (n,n') Level Legendre Coefficients 60-Nd-147



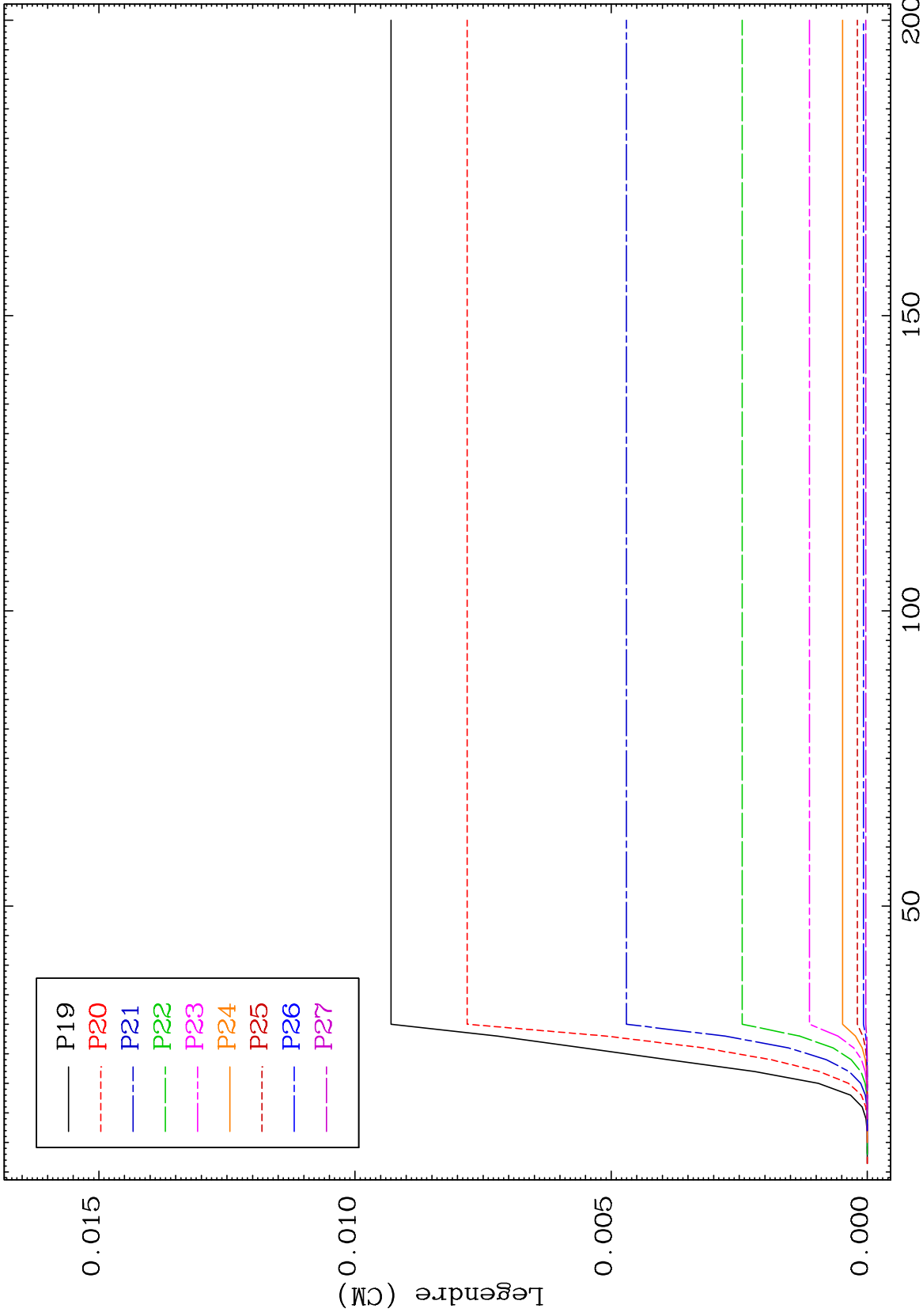
24 60-Nd-147



MAT 6040

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

60-Nd-147



26

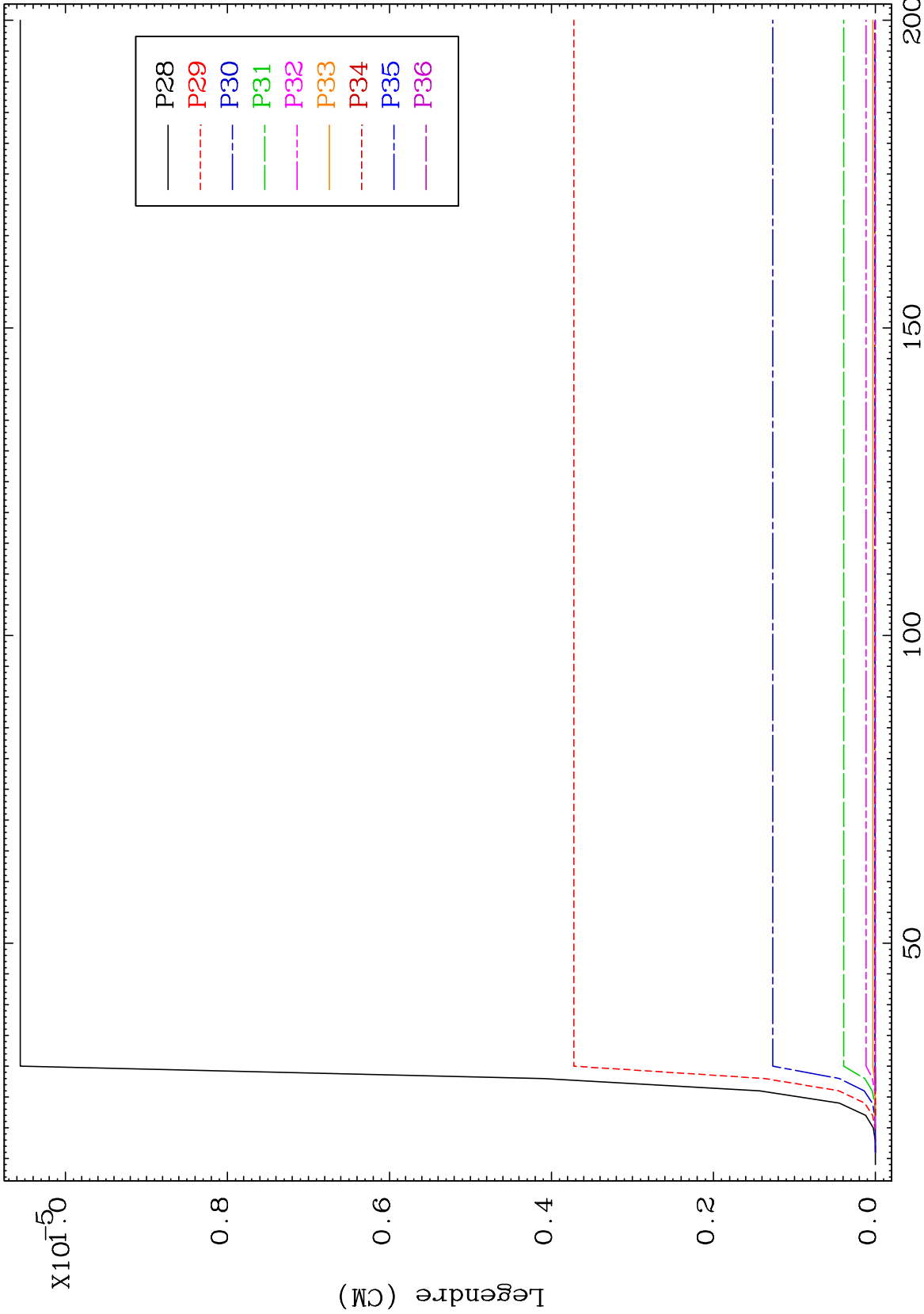
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

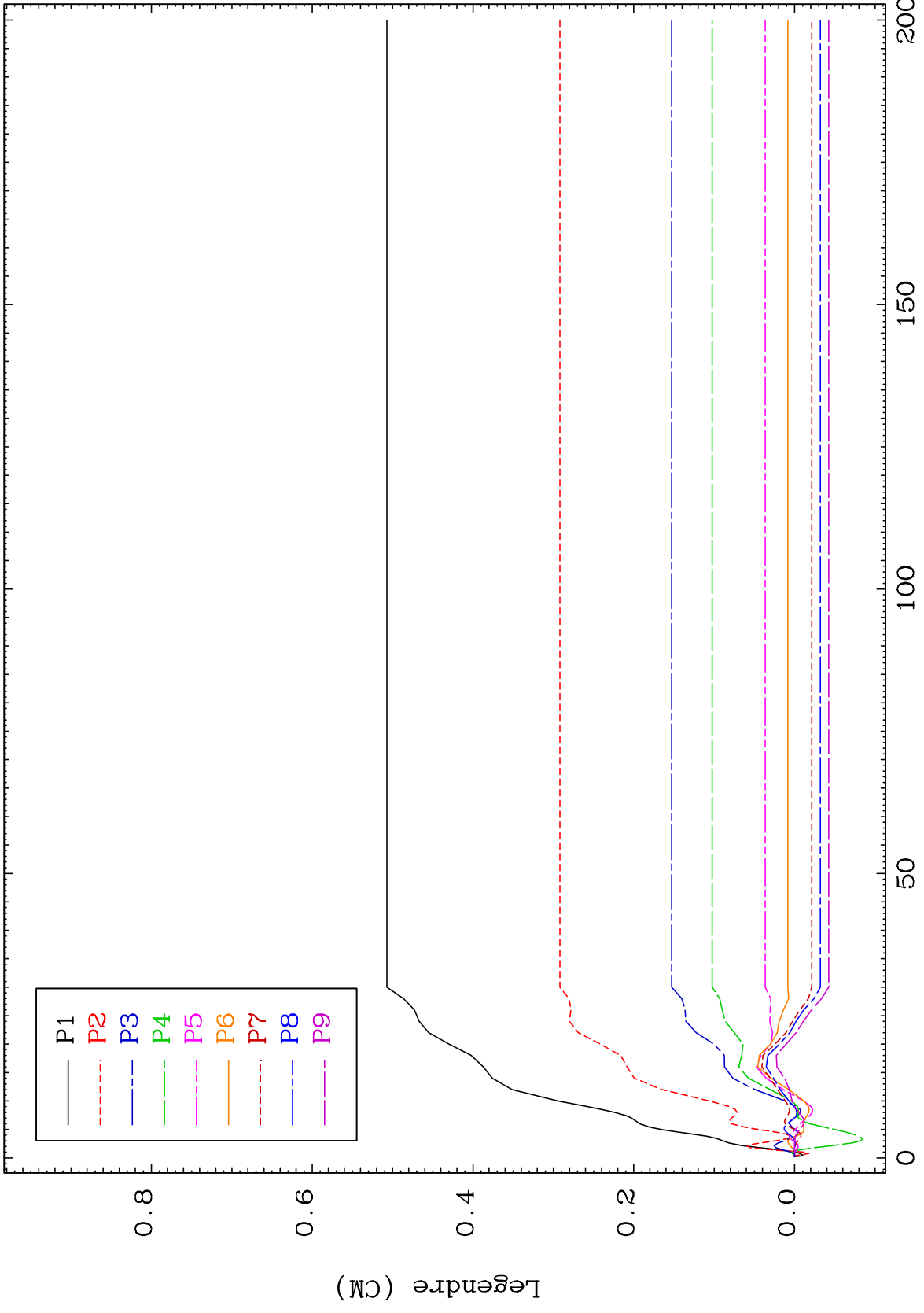


27

Incident Energy (MeV)

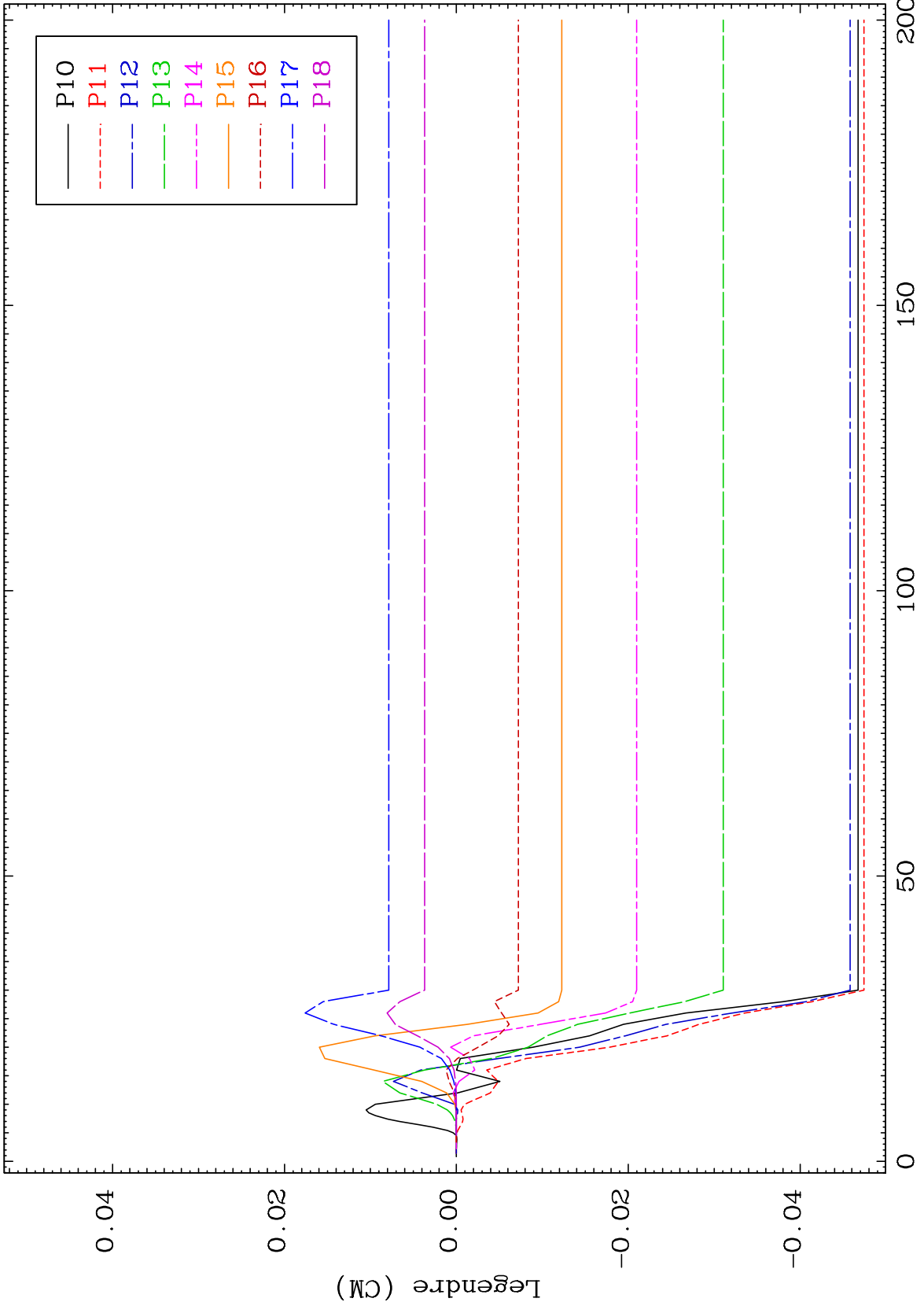
60-Nd-147

MAT 6040 MT= 53 (n,n') Level Legendre Coefficients 60-Nd-147



28 Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 53 (n,n') Level Legendre Coefficients 60-Nd-147

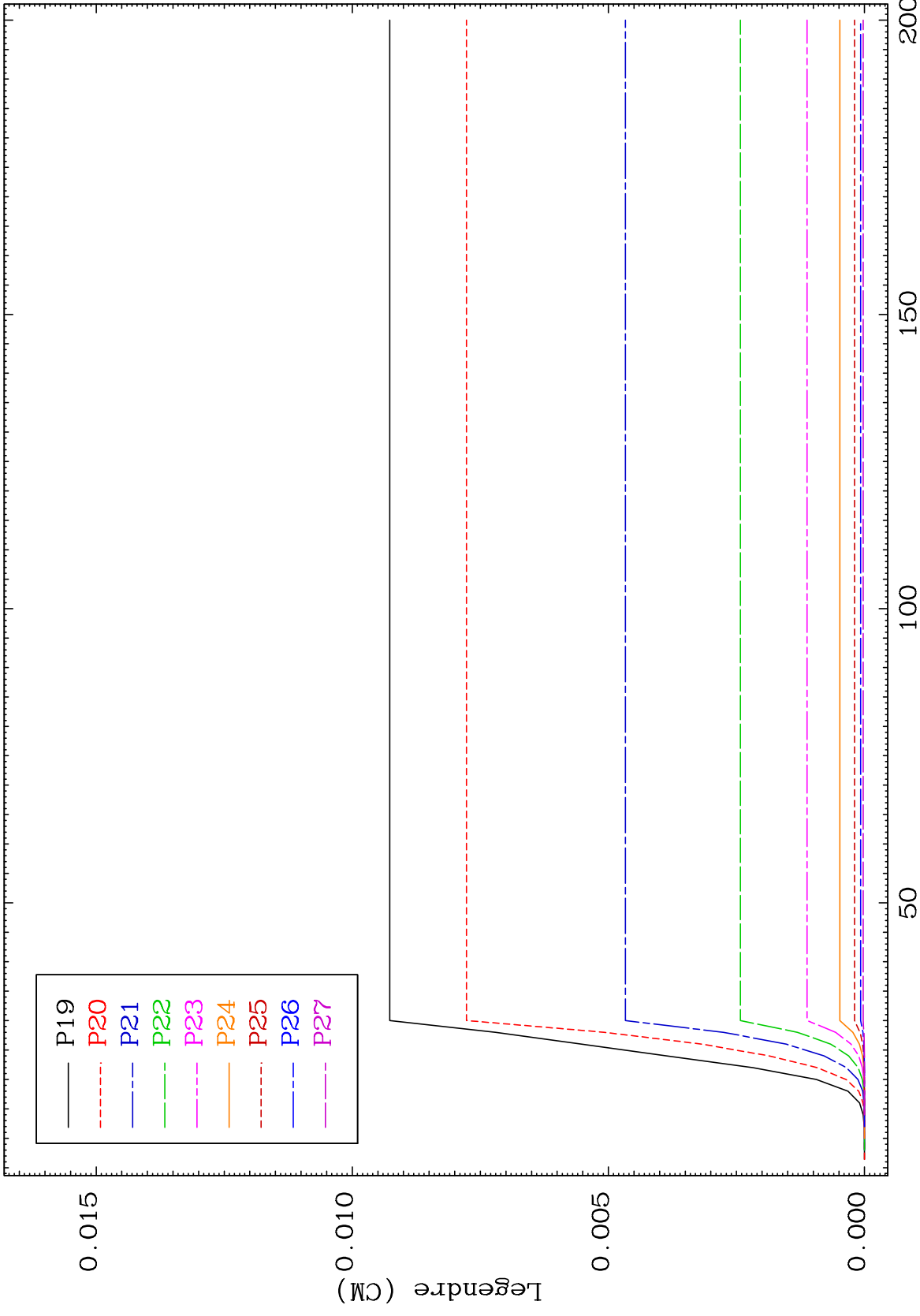


29 60-Nd-147

MAT 6040

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

60-Nd-147



30

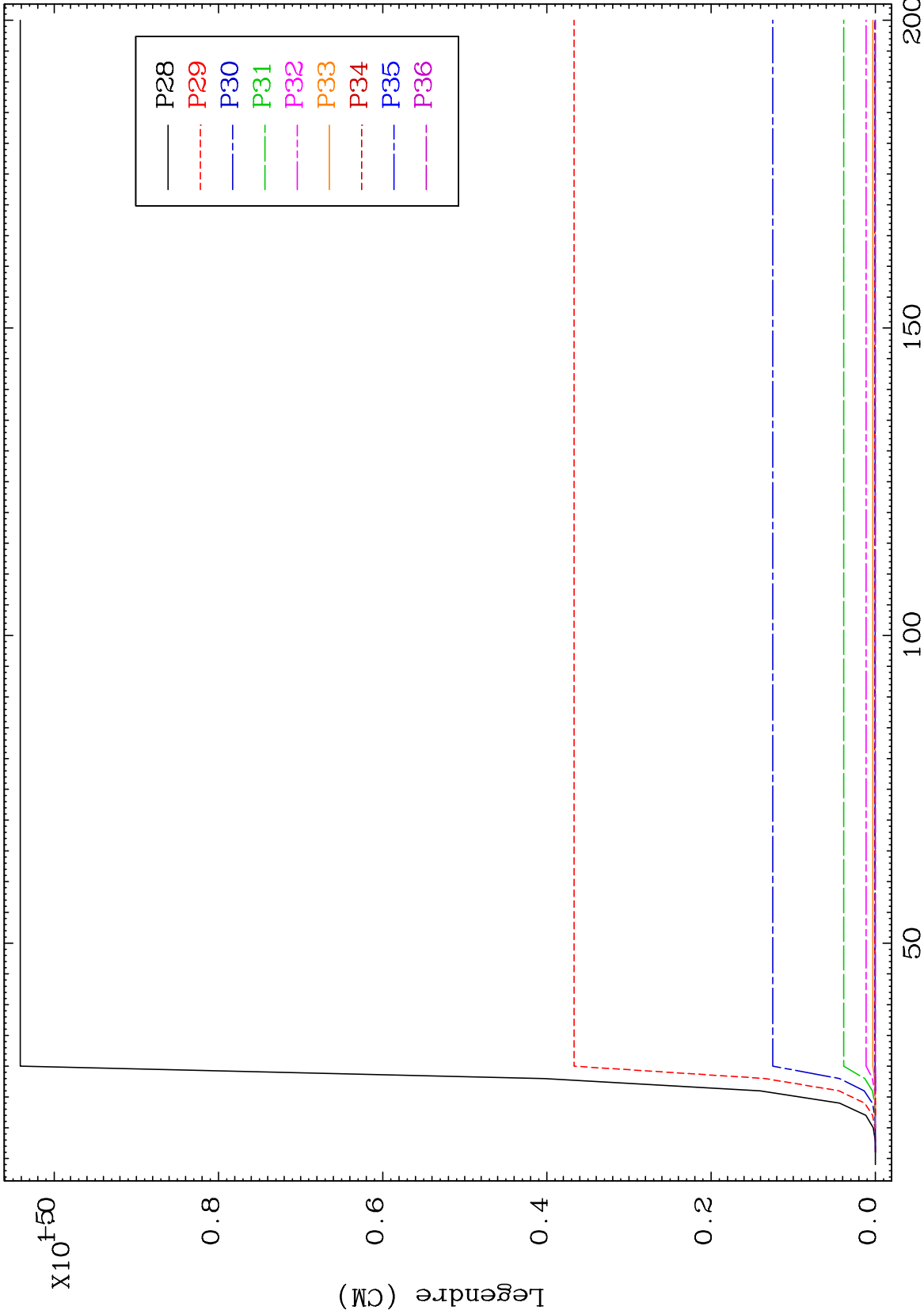
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

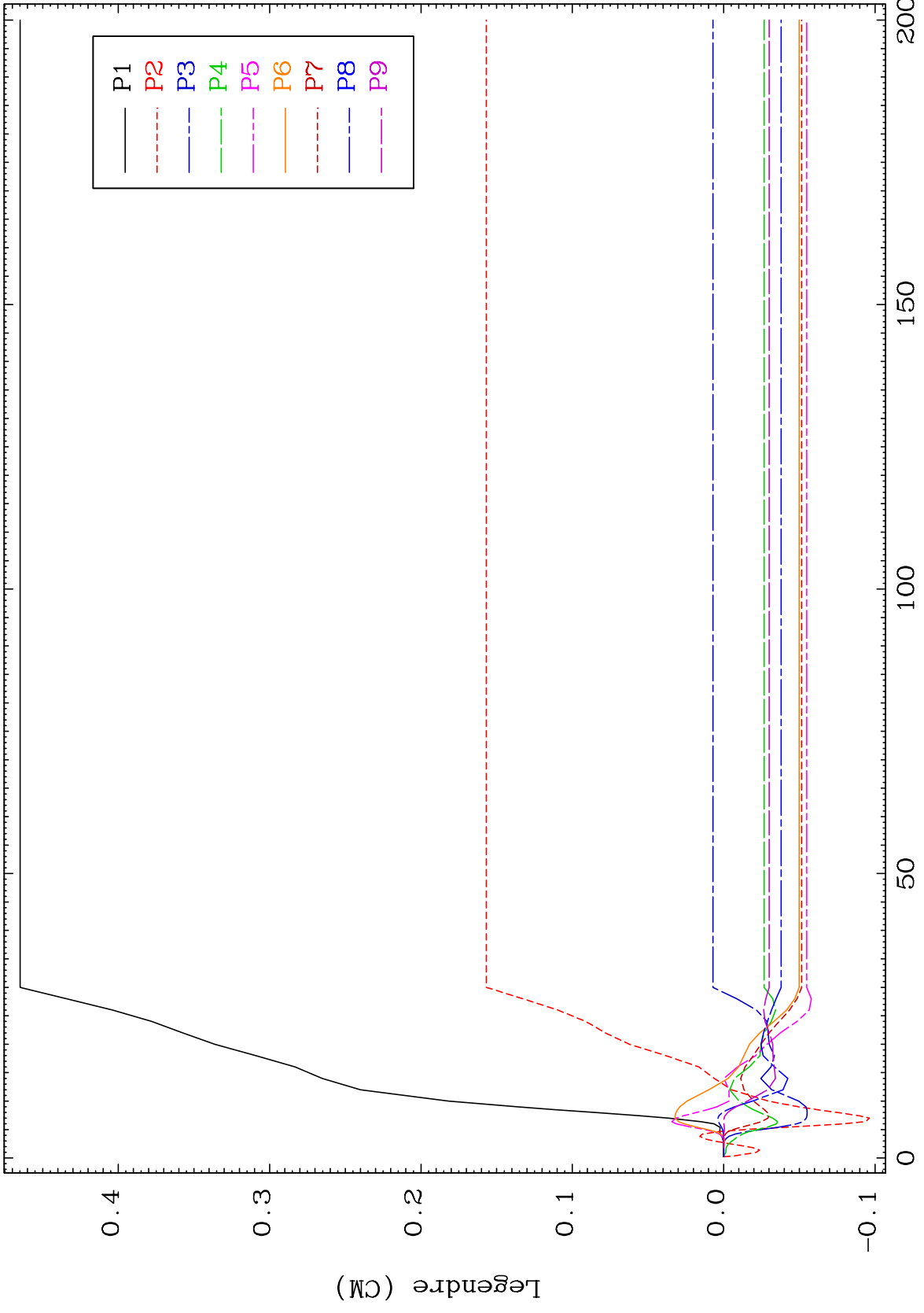
60-Nd-147



31

60-Nd-147

MAT 6040 MT= 54 (n,n') Level Legendre Coefficients 60-Nd-147

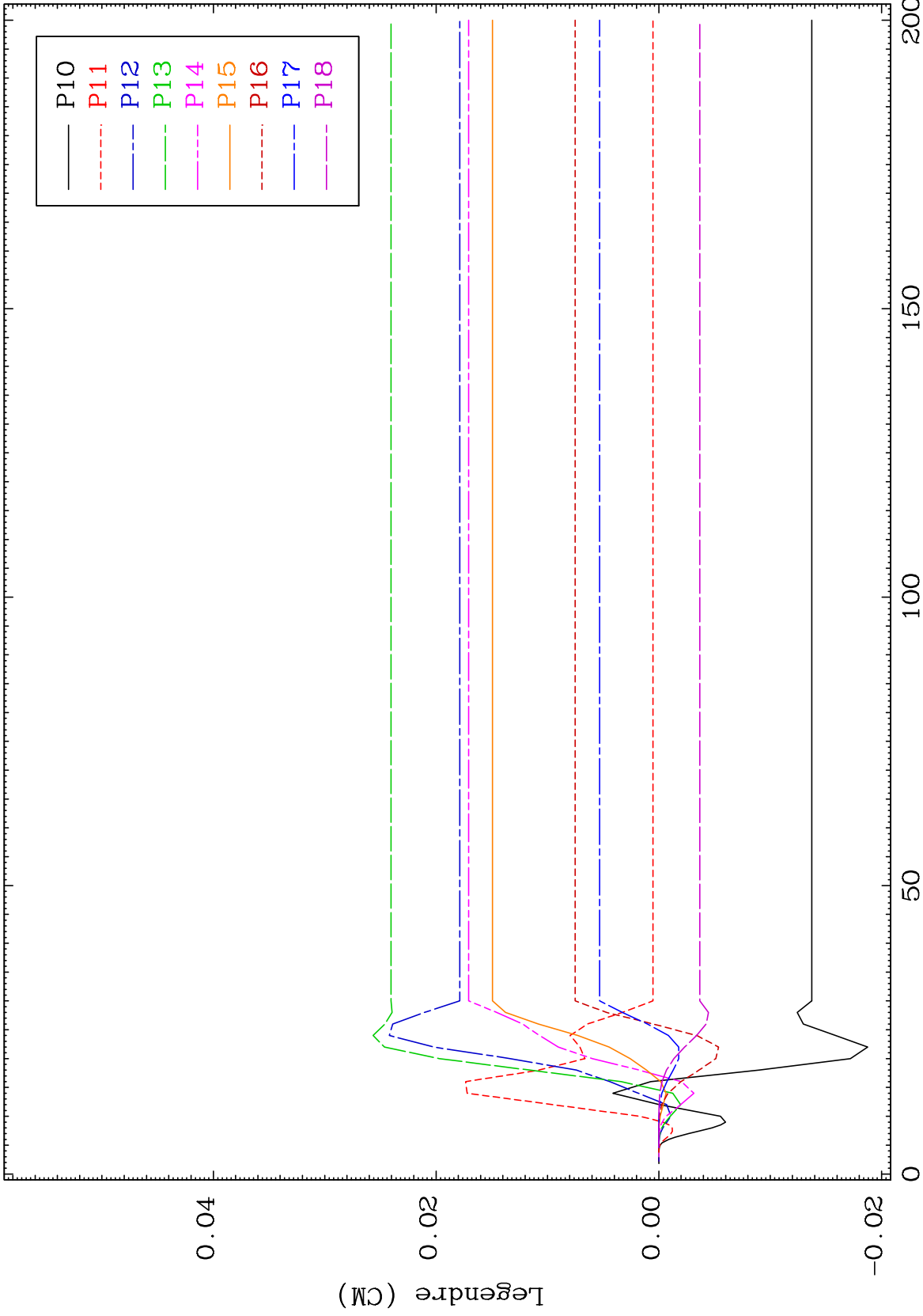


32 Incident Energy (MeV) 60-Nd-147

MAT 6040

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

60-Nd-147



33

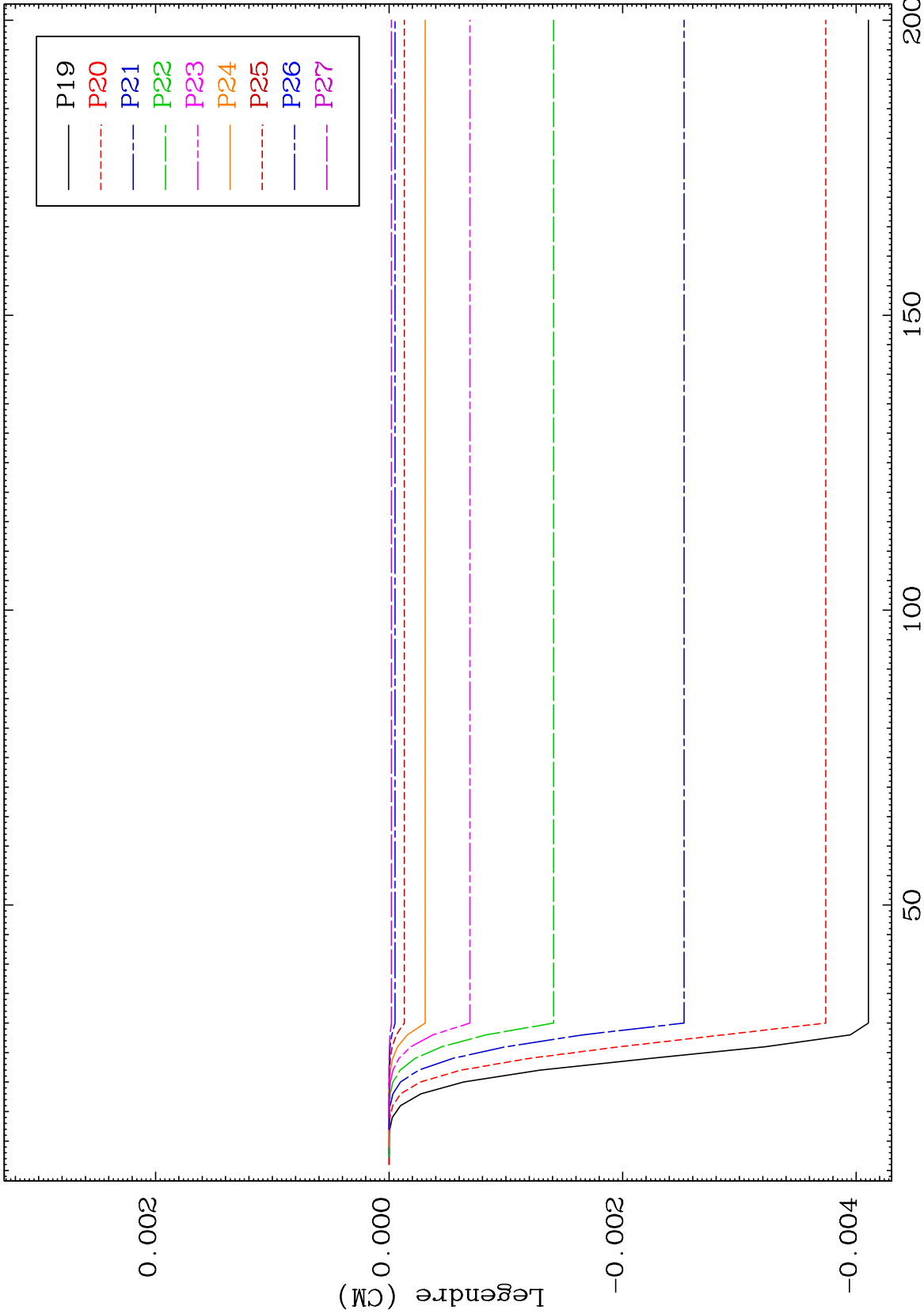
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147



34

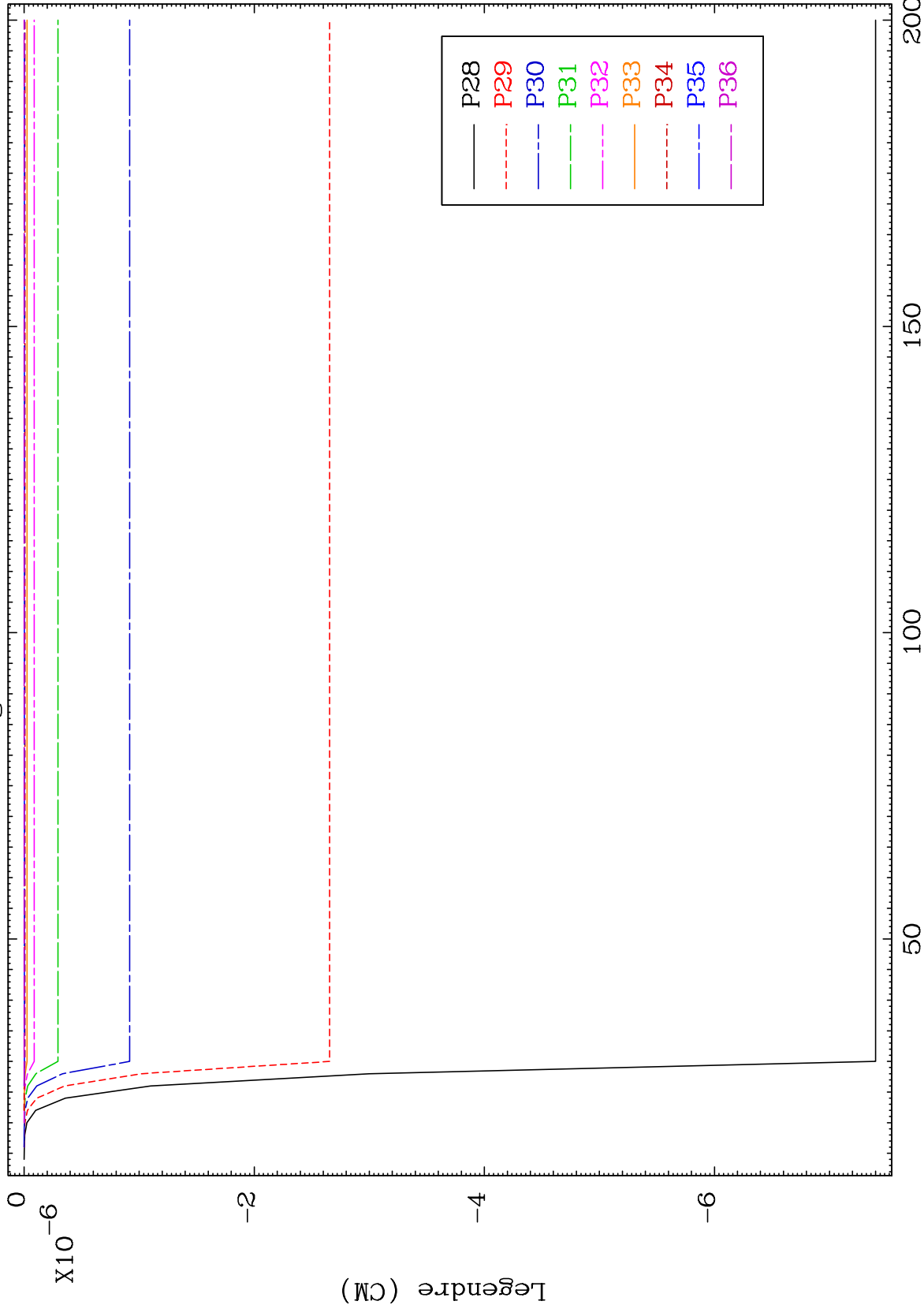
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

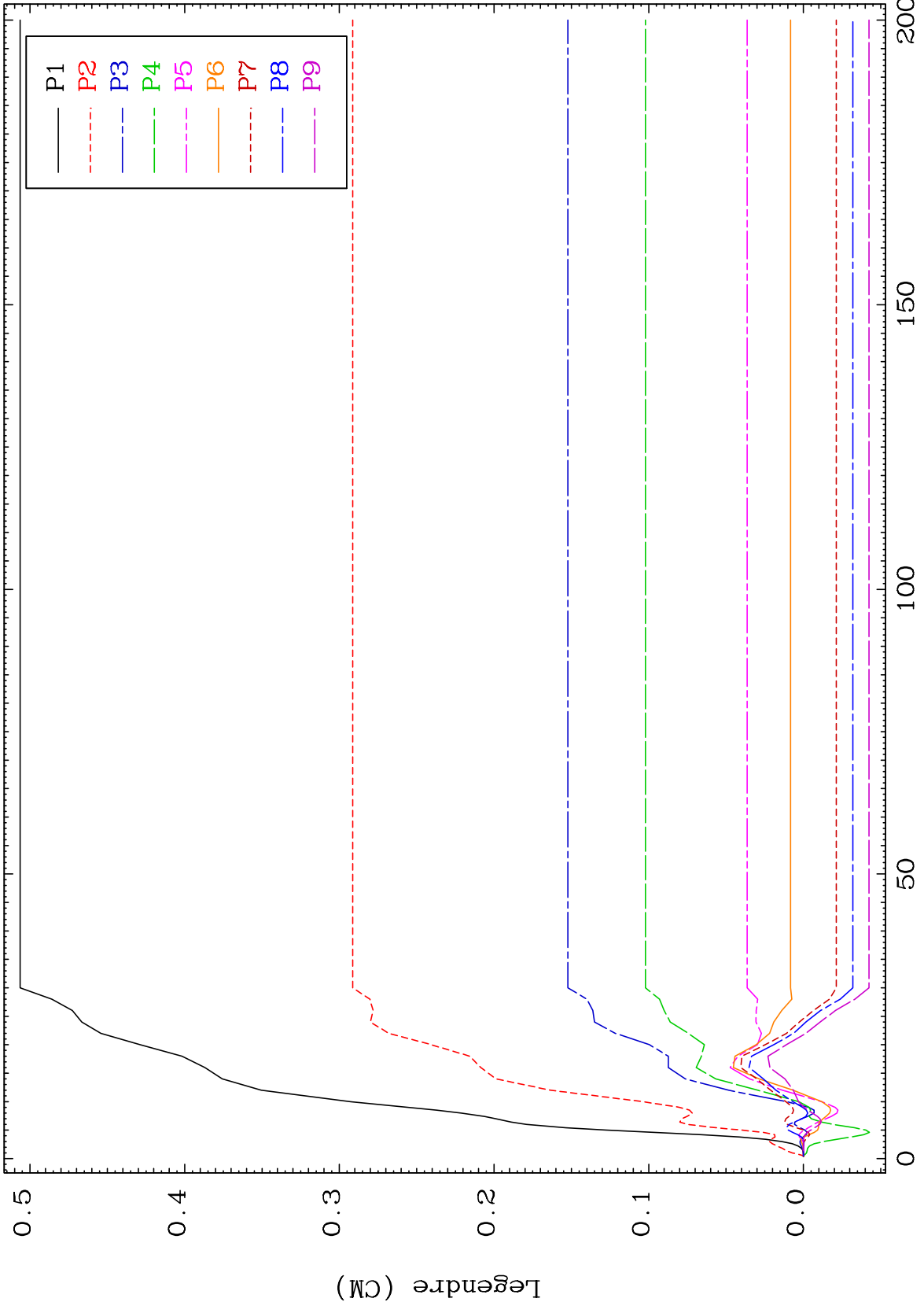


60-Nd-147

Incident Energy (MeV)

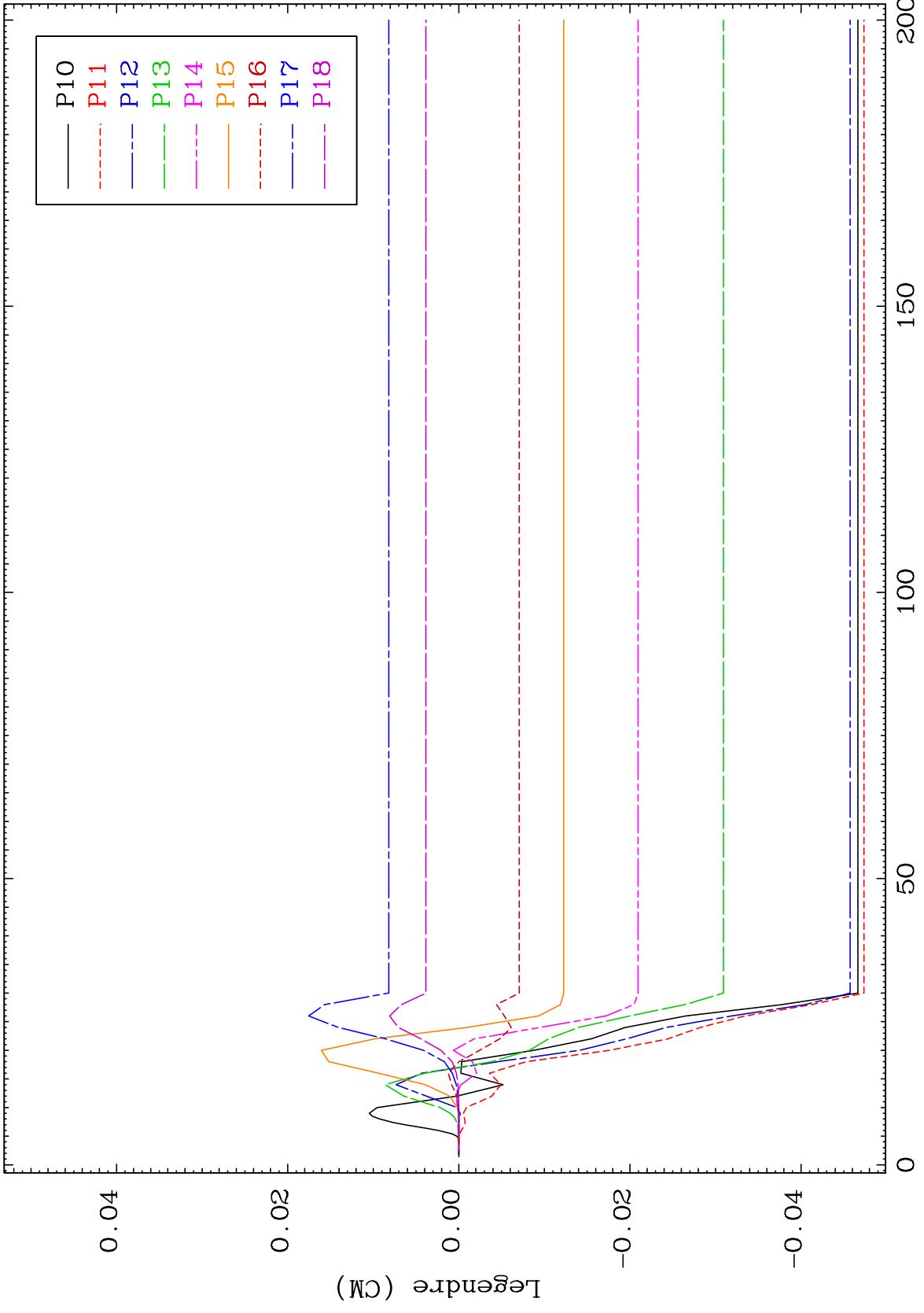
35

MAT 6040 MT= 55 (n,n') Level Legendre Coefficients 60-Nd-147



36 60-Nd-147

MAT 6040 MT= 55 (n,n') Level Legendre Coefficients 60-Nd-147

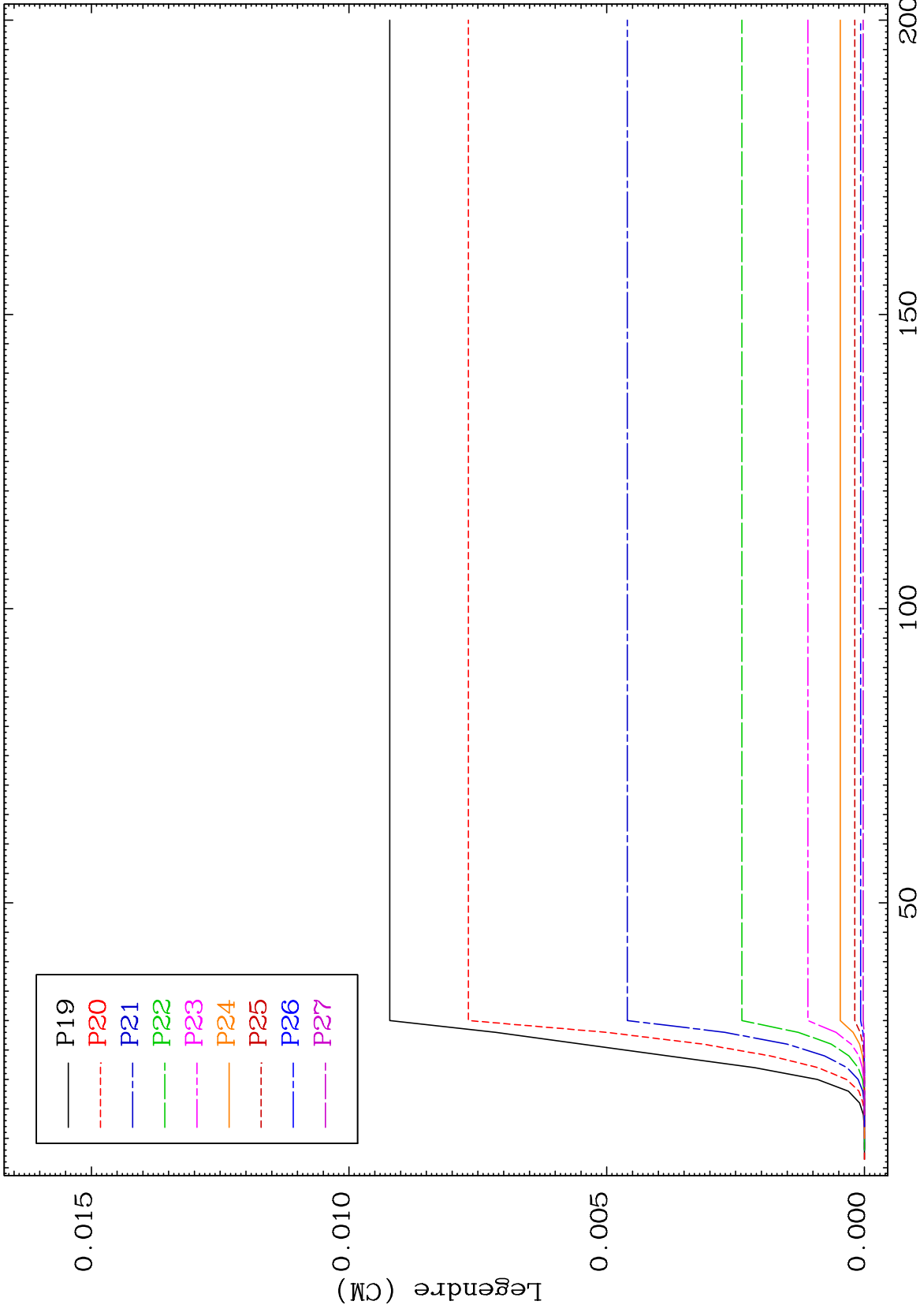


37 60-Nd-147

MAT 6040

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

60-Nd-147



38

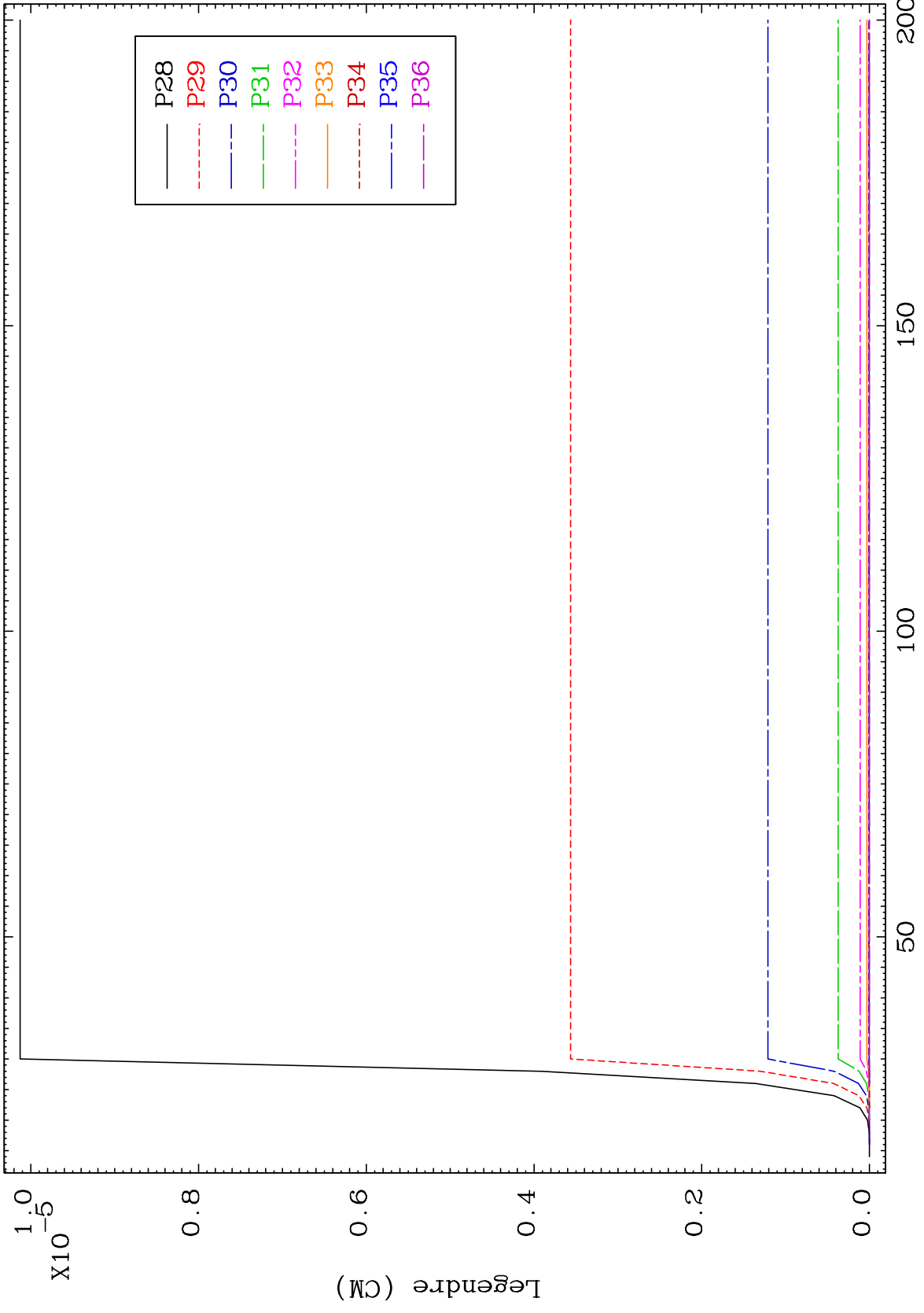
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

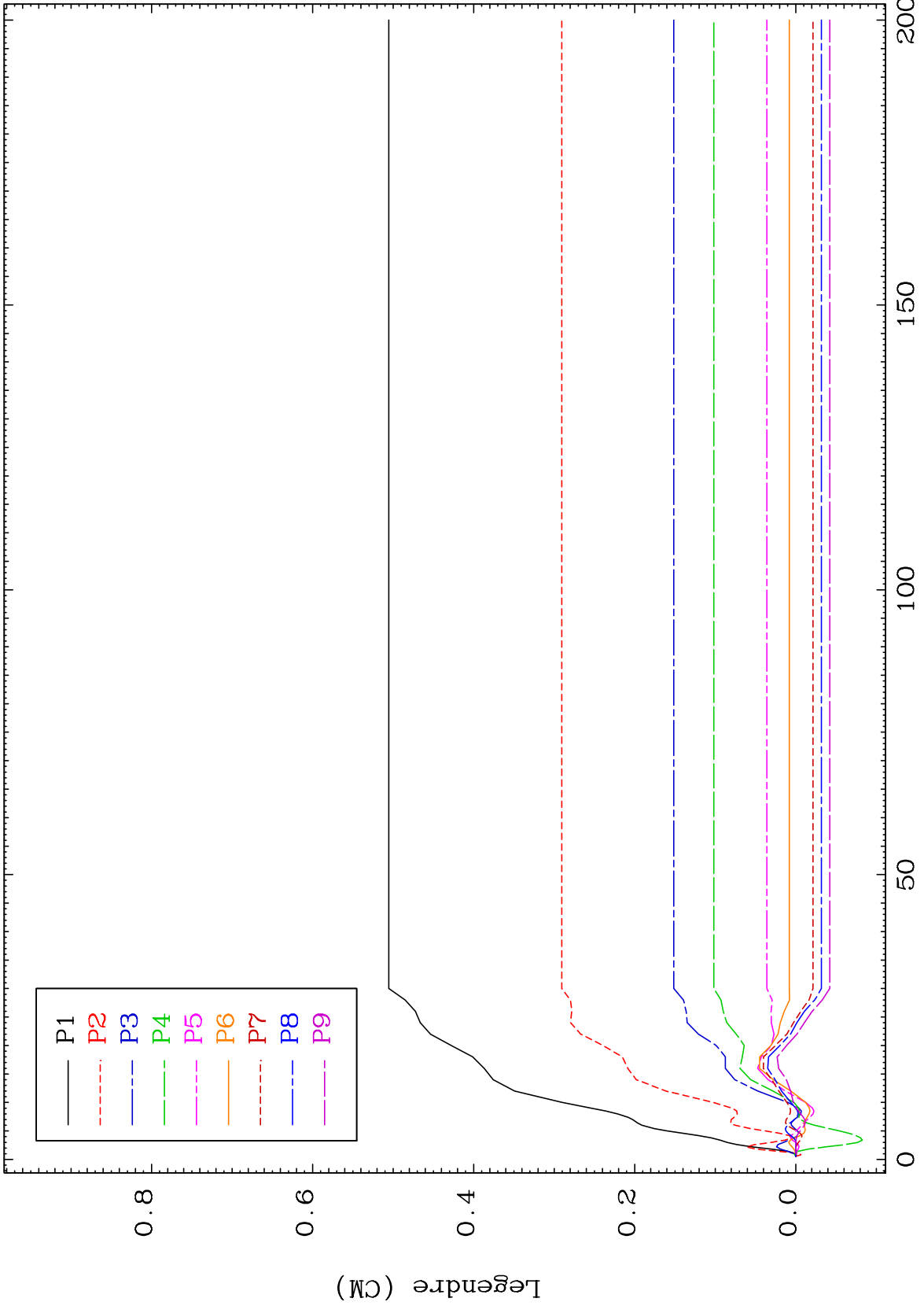


39

Incident Energy (MeV)

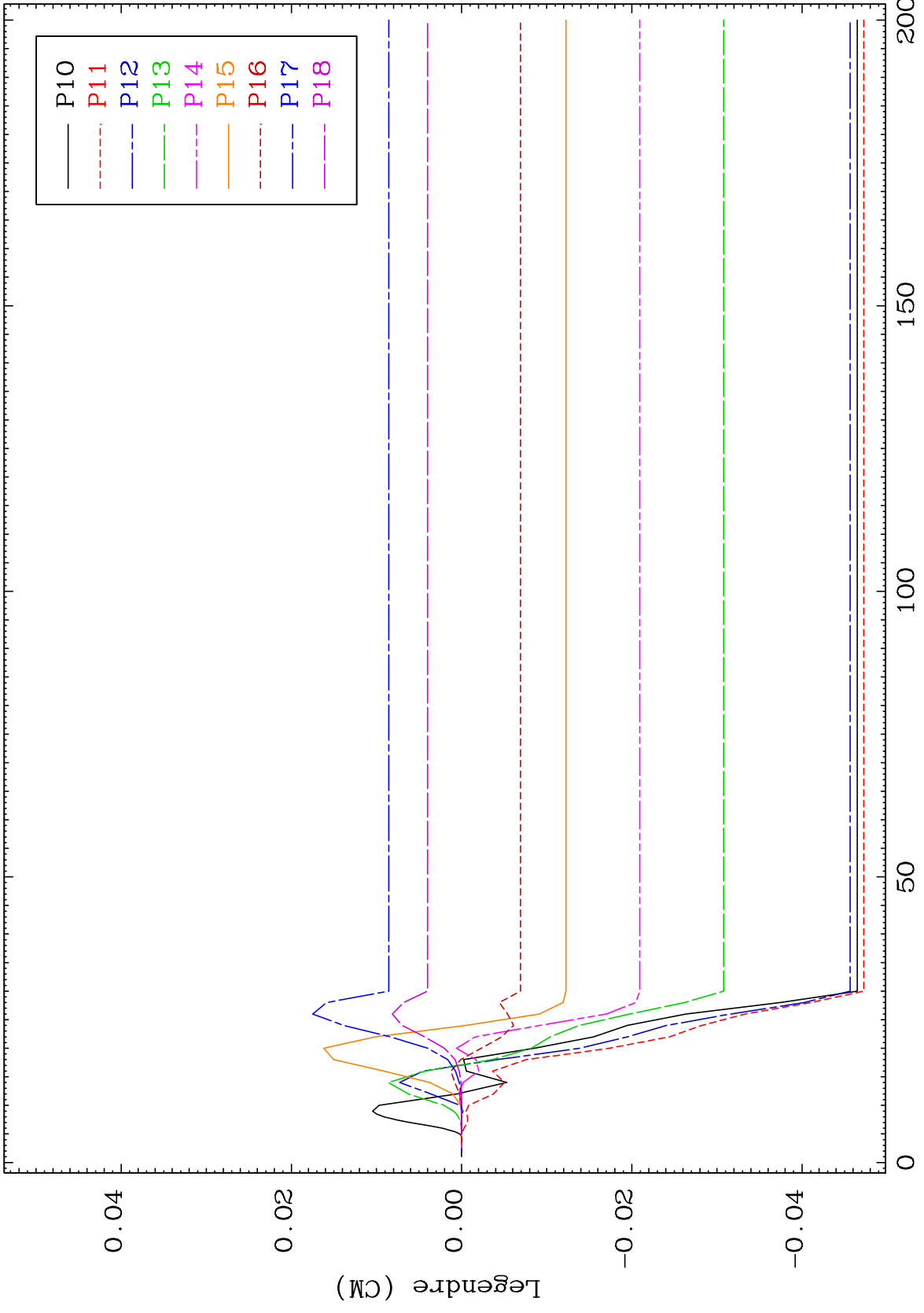
60-Nd-147

MAT 6040 MT= 56 (n,n') Level Legendre Coefficients 60-Nd-147



60-Nd-147 Incident Energy (MeV)

MAT 6040 MT= 56 (n,n') Level Legendre Coefficients 60-Nd-147

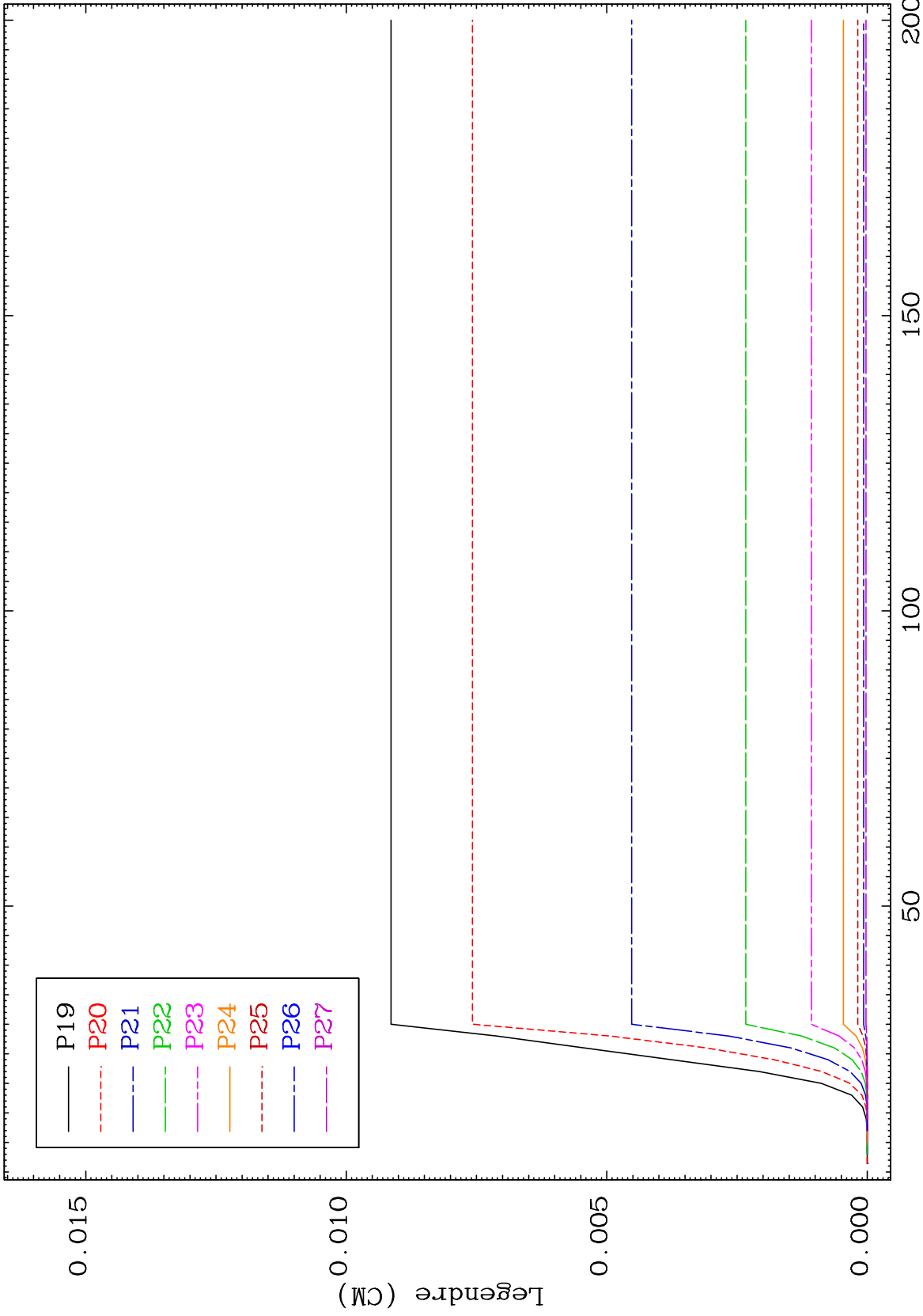


41 60-Nd-147

MAT 6040

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

60-Nd-147



42

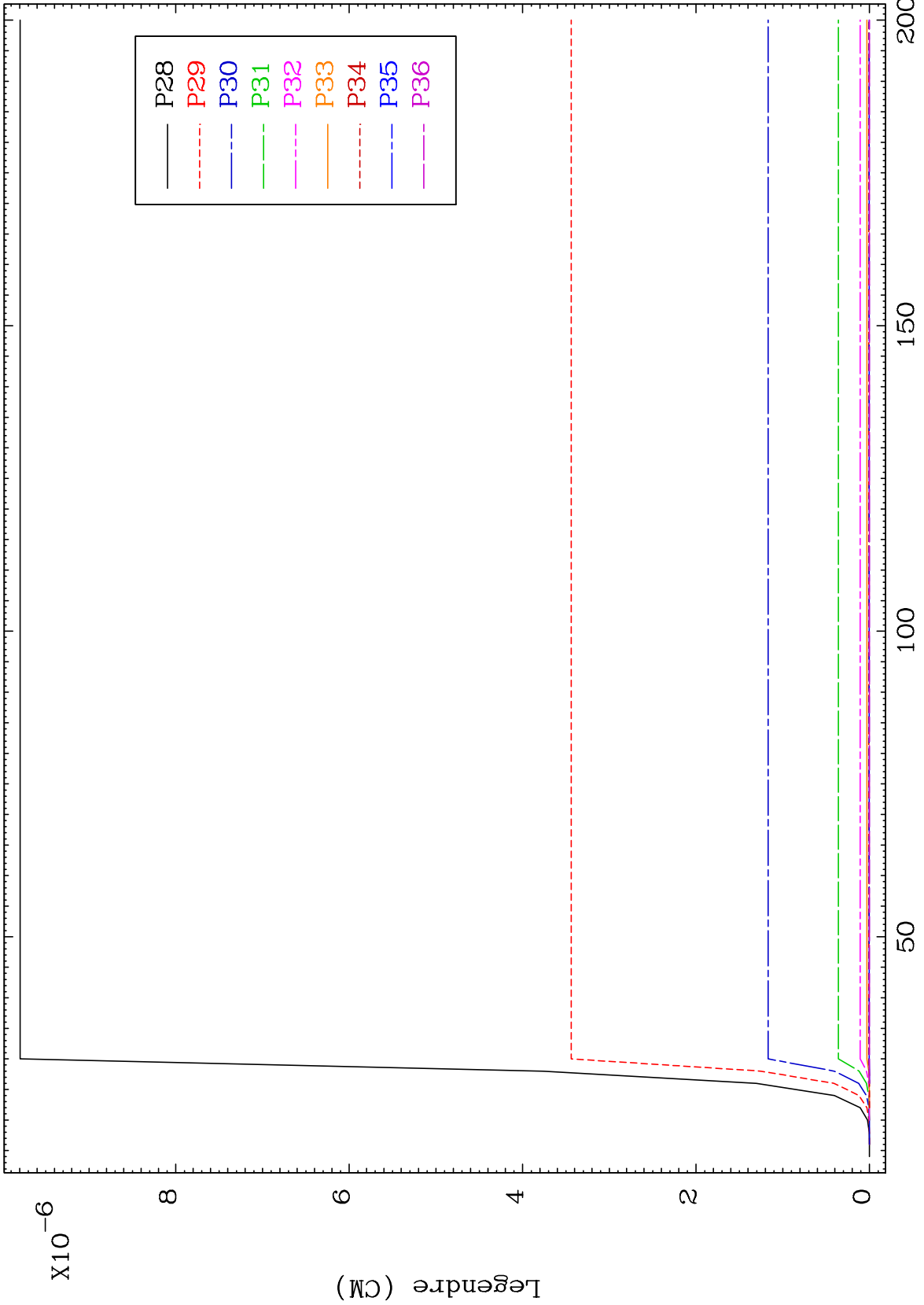
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

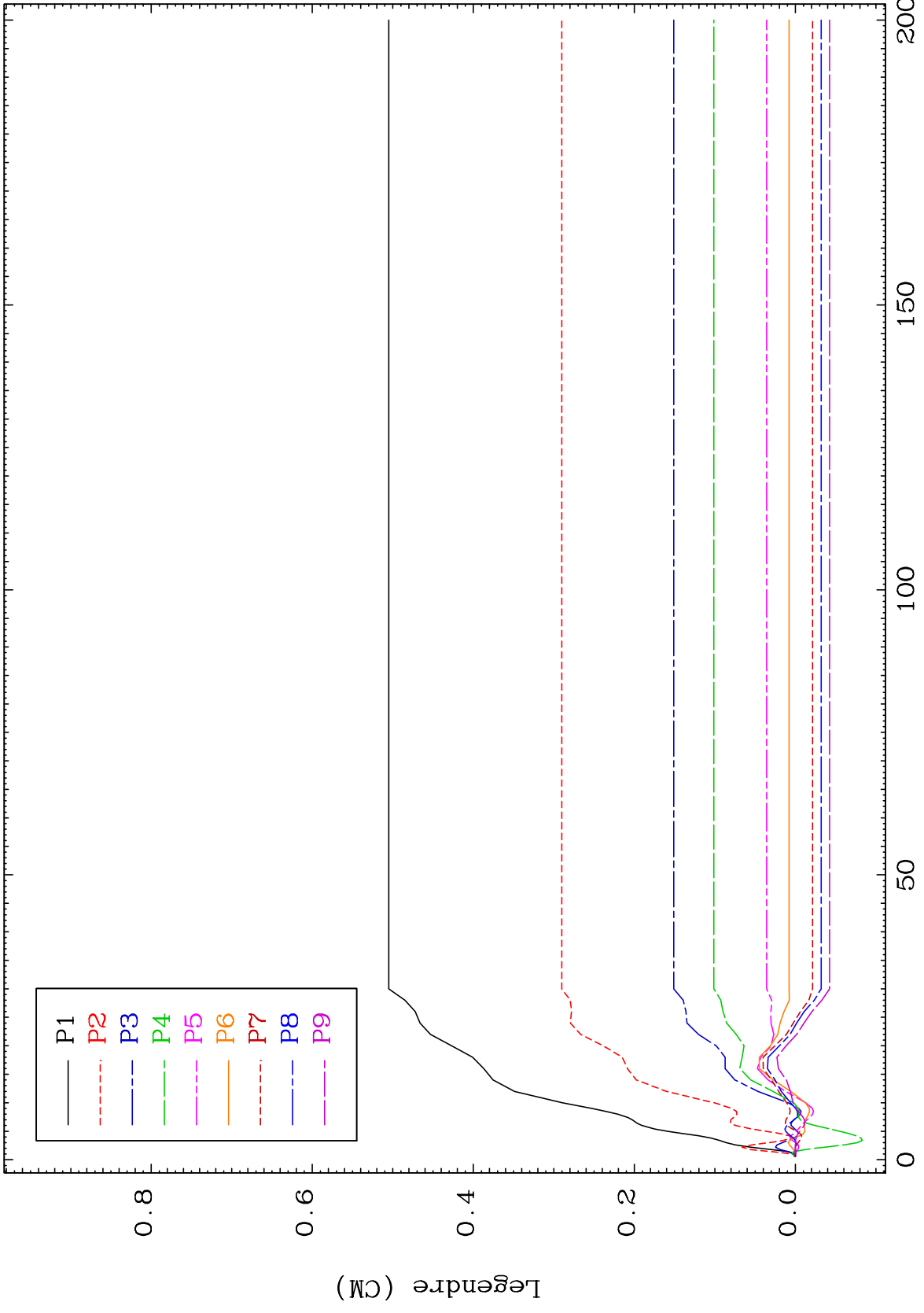


43

Incident Energy (MeV)

60-Nd-147

MAT 6040 MT= 57 (n,n') Level Legendre Coefficients 60-Nd-147

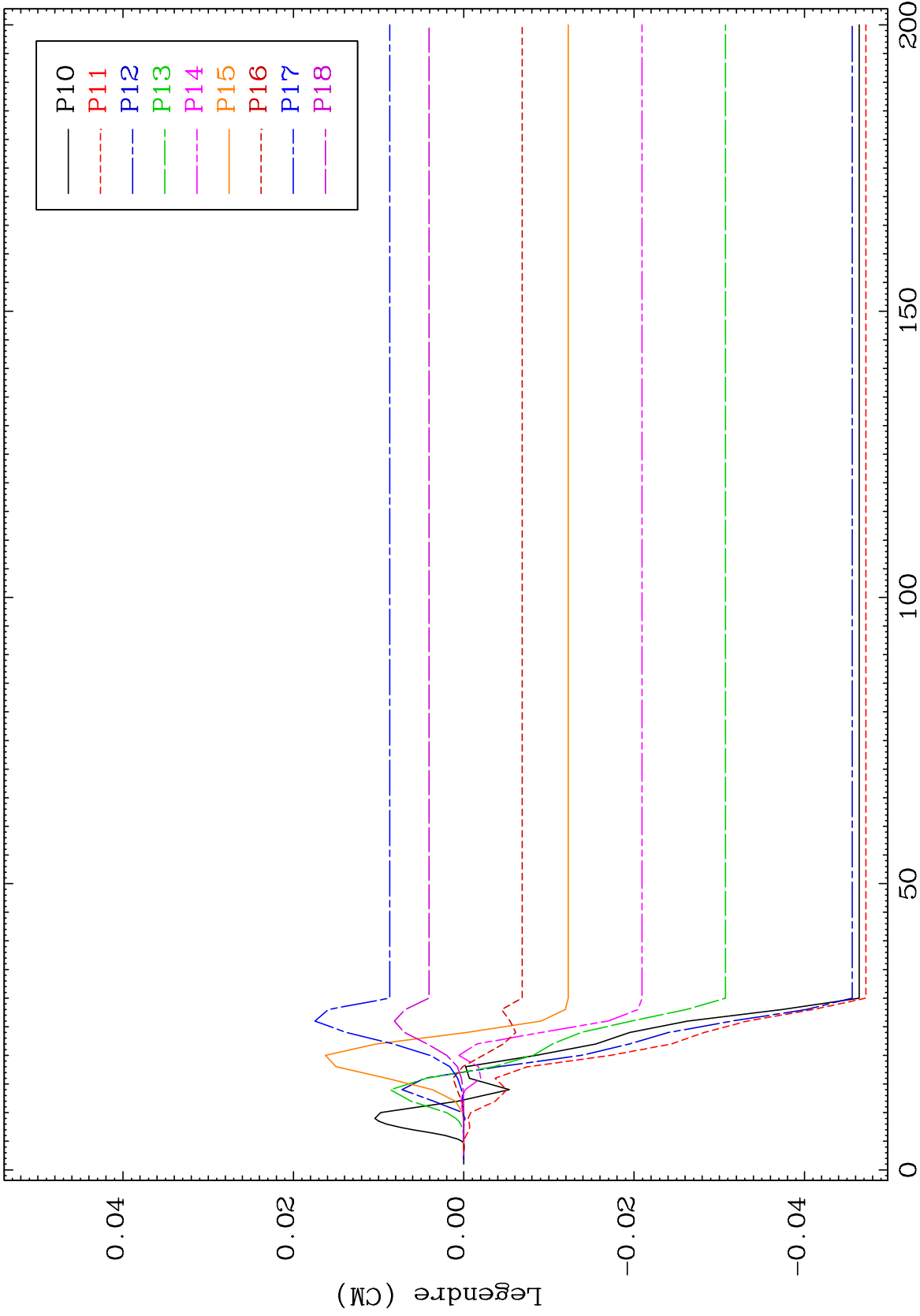


44 Incident Energy (MeV) 60-Nd-147

MAT 6040

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

60-Nd-147



45

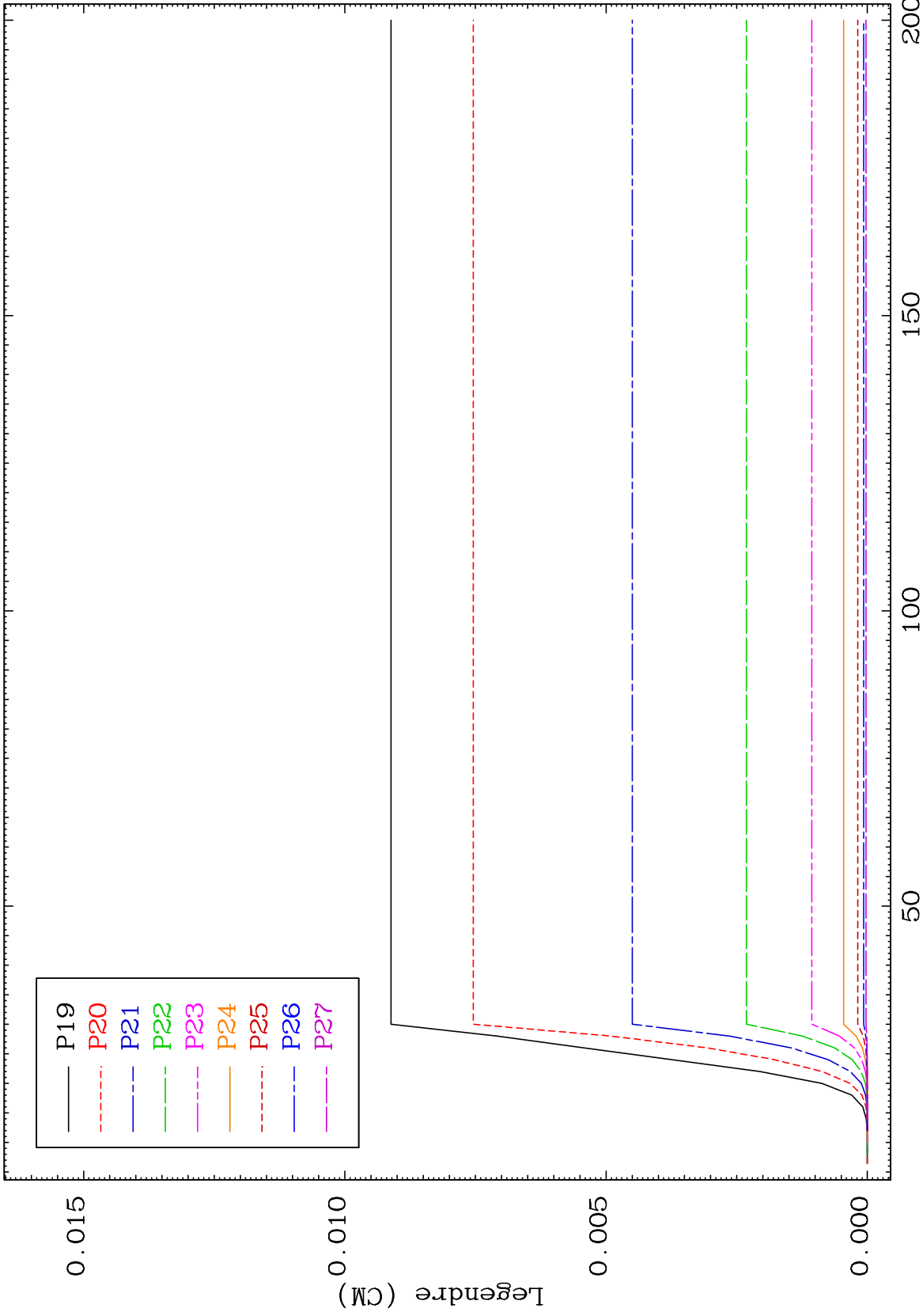
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147



46

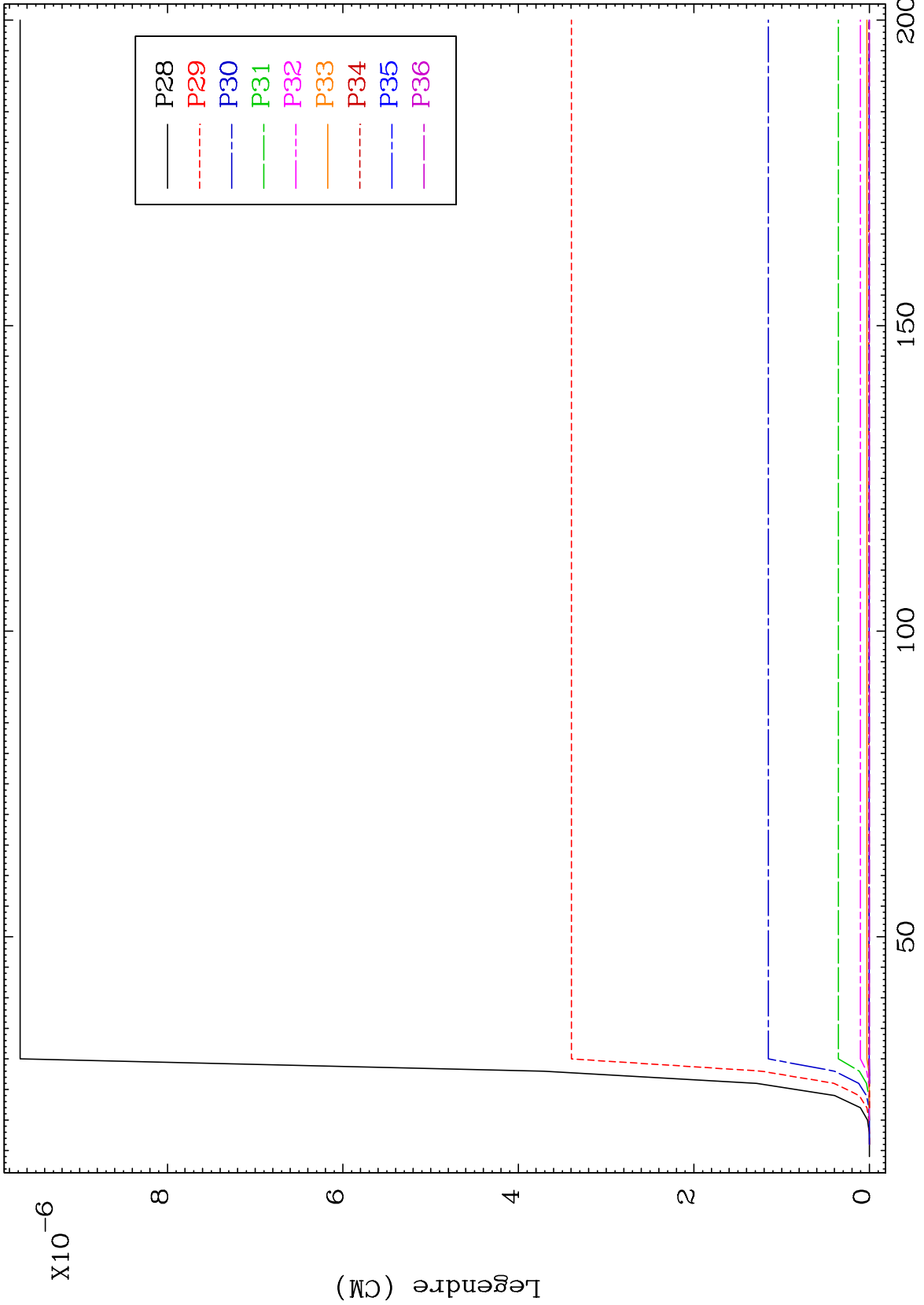
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

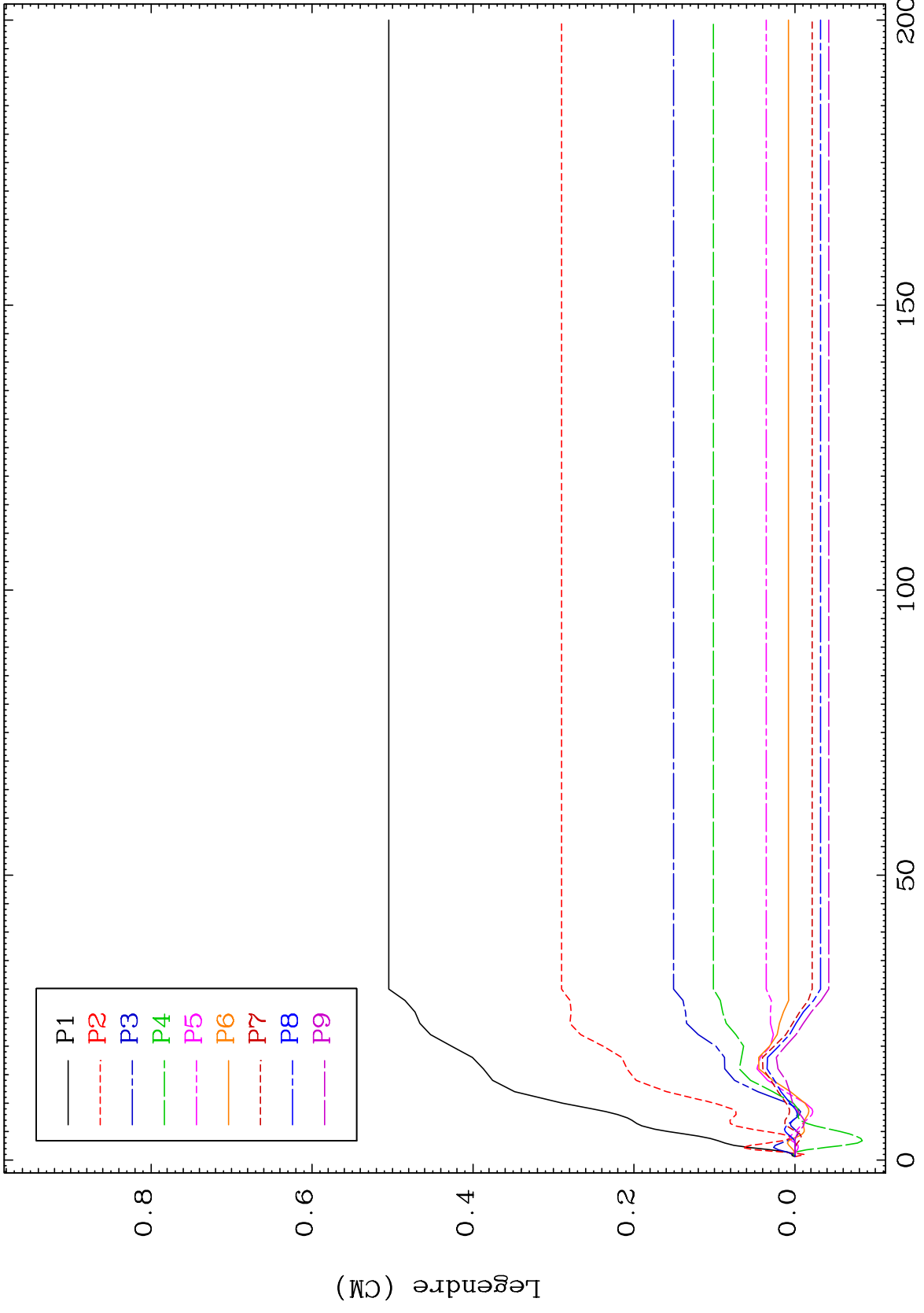


47

Incident Energy (MeV)

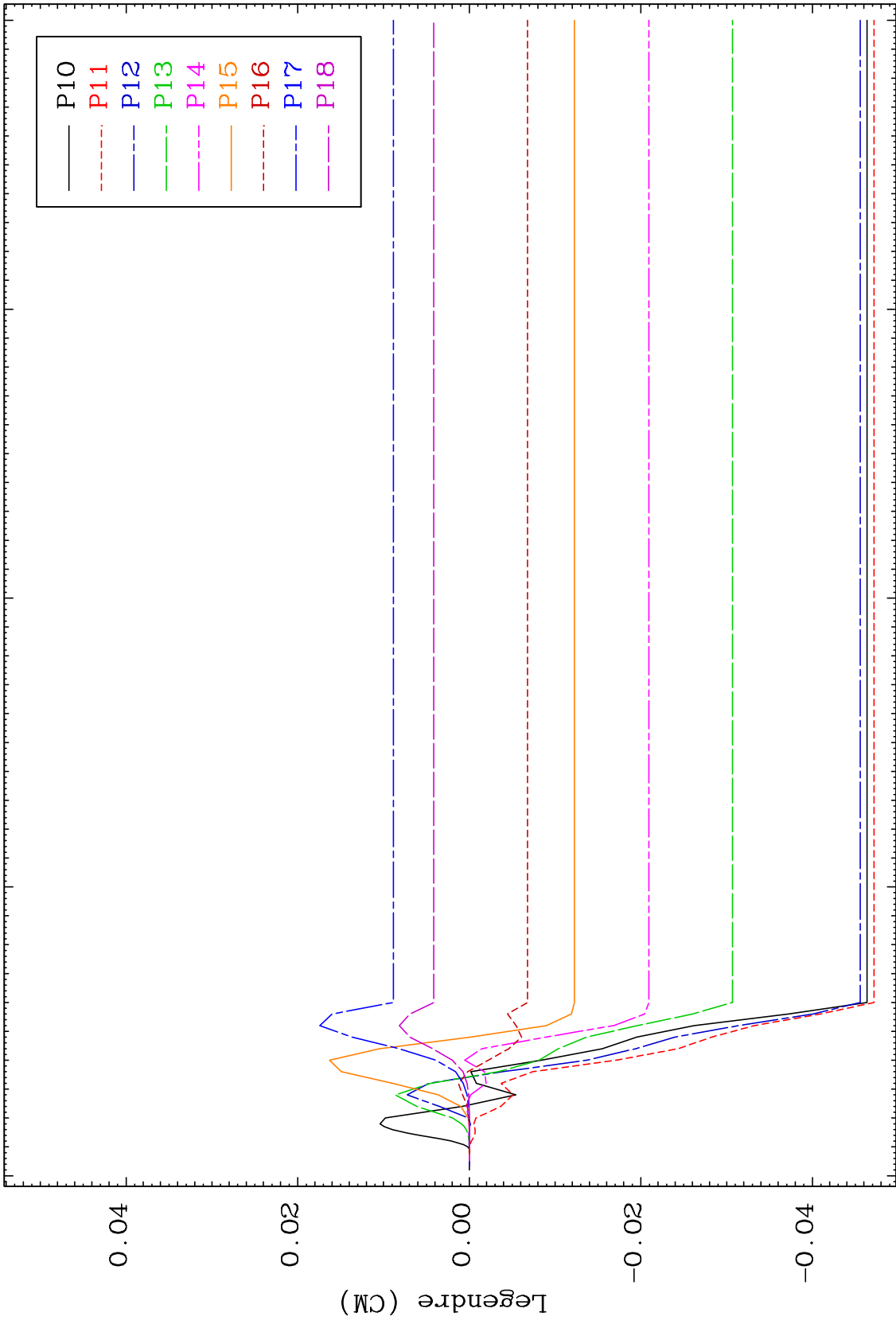
60-Nd-147

MAT 6040 MT= 58 (n,n') Level Legendre Coefficients 60-Nd-147



48 Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 58 (n,n') Level Legendre Coefficients 60-Nd-147

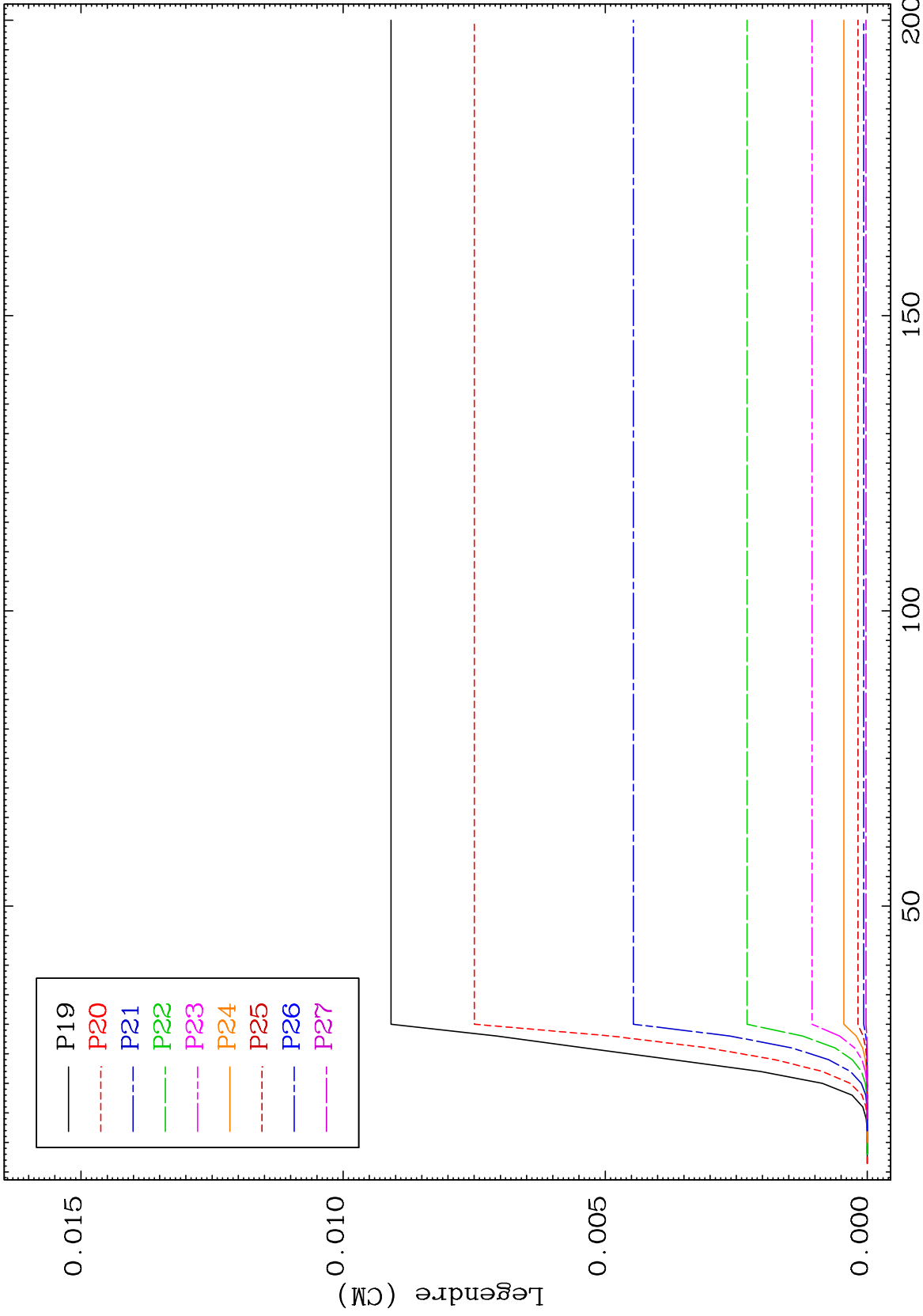


49 60-Nd-147

MAT 6040

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

60-Nd-147



50

100

150

Incident Energy (MeV)

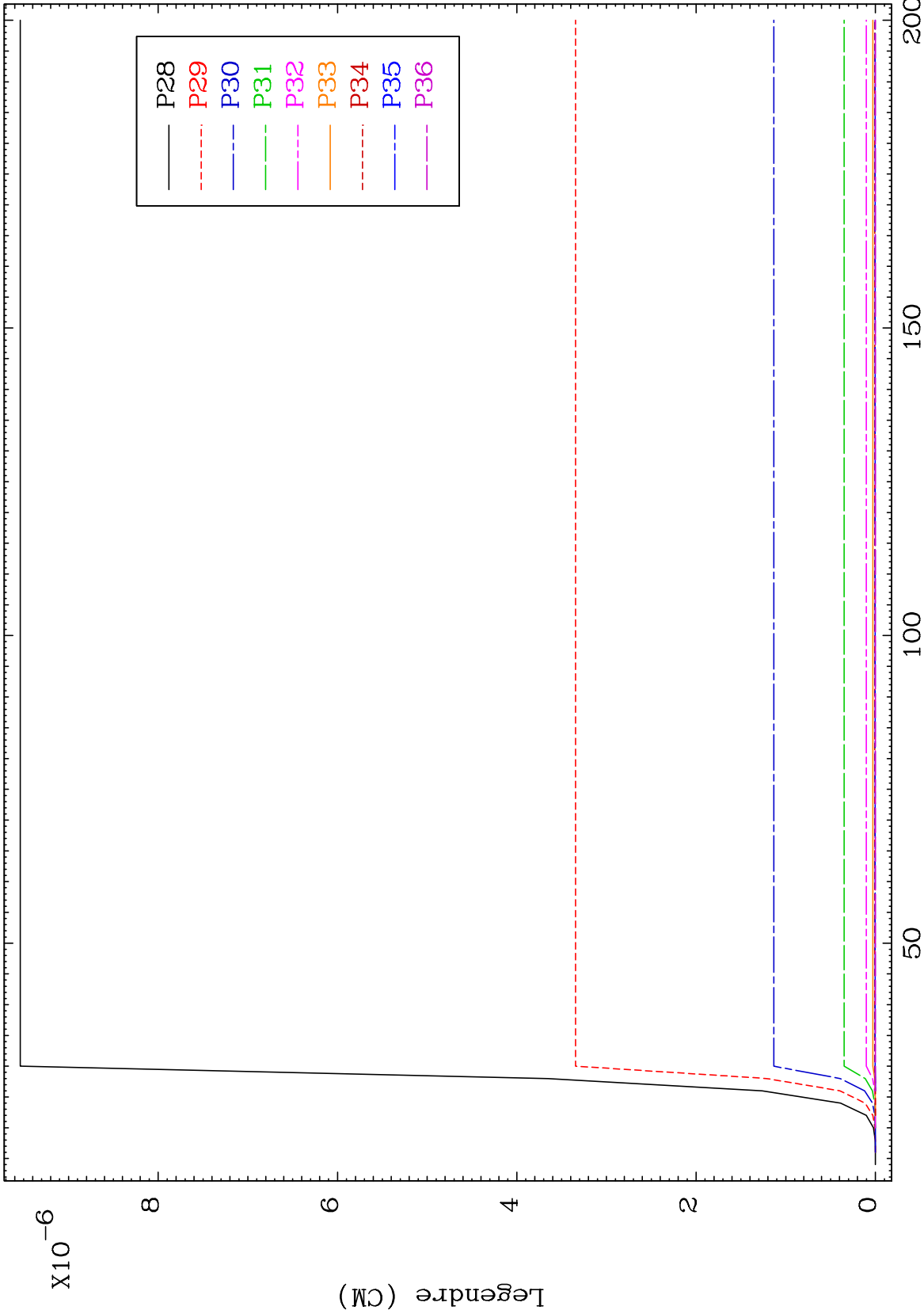
200

60-Nd-147

MAT 6040

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

60-Nd-147

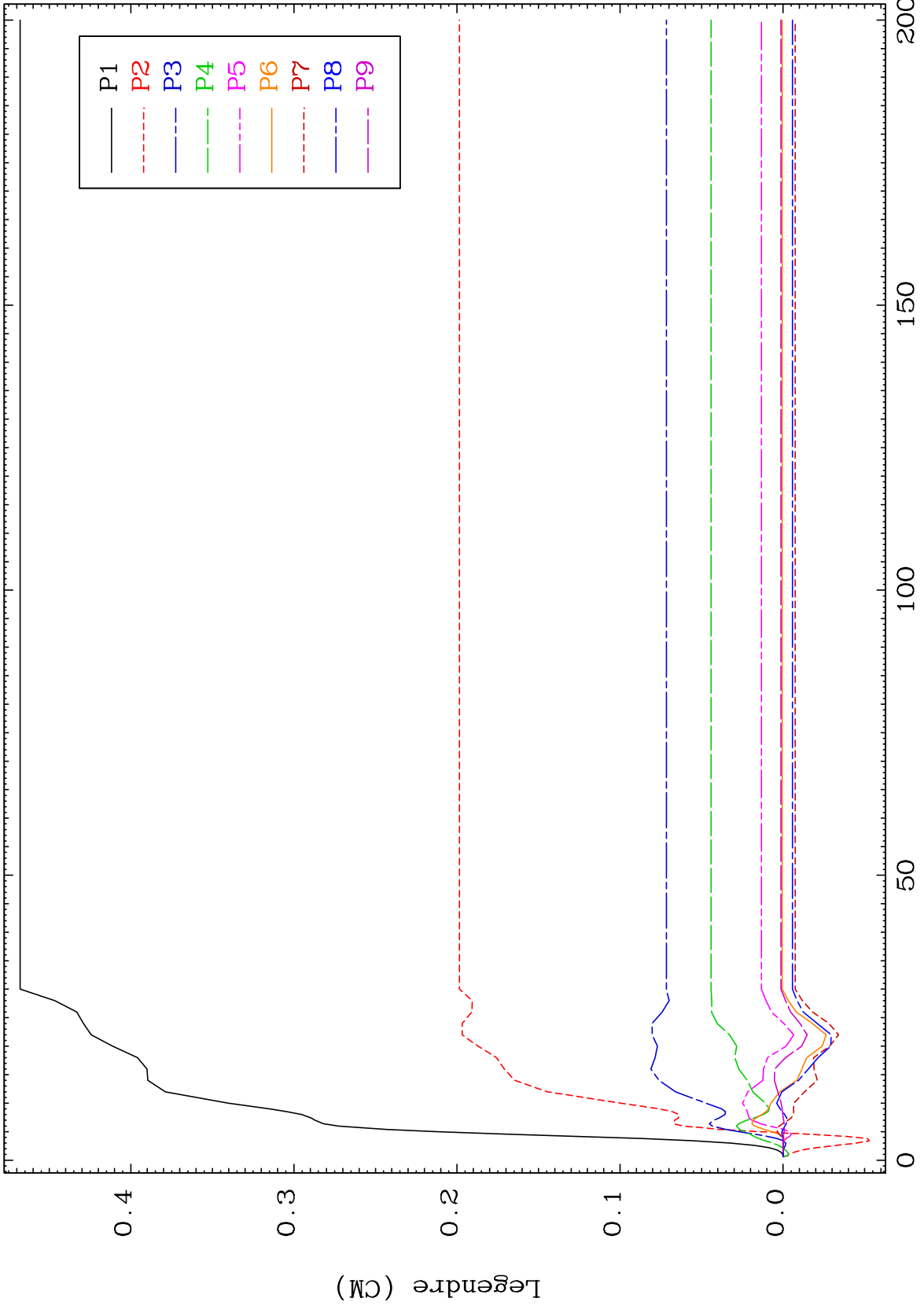


51

Incident Energy (MeV)

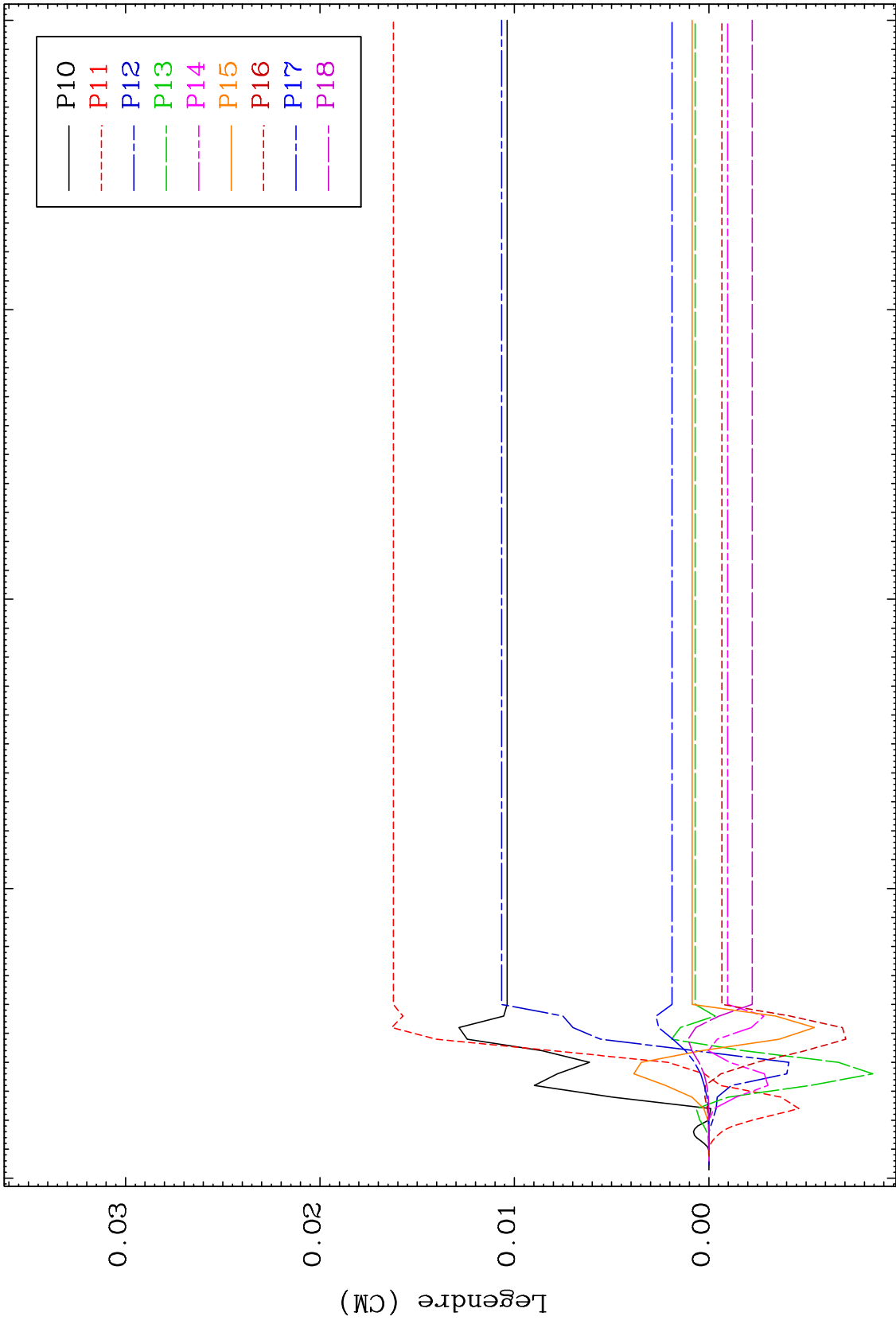
60-Nd-147

MAT 6040 MT= 59 (n,n') Level Legendre Coefficients 60-Nd-147



52 60-Nd-147

MAT 6040 MT= 59 (n,n') Level Legendre Coefficients 60-Nd-147

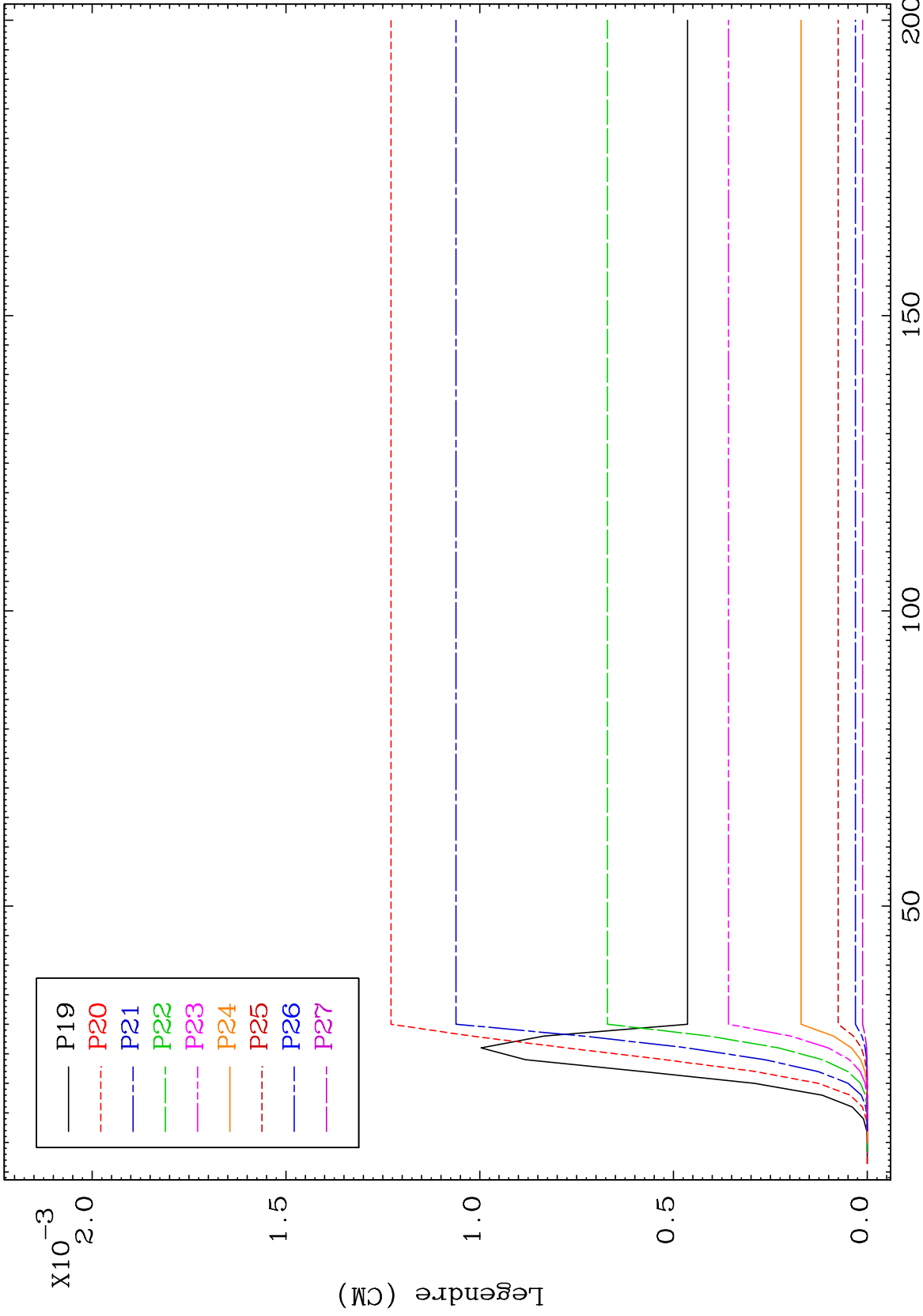


53 Incident Energy (MeV) 60-Nd-147

MAT 6040

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

60-Nd-147



54

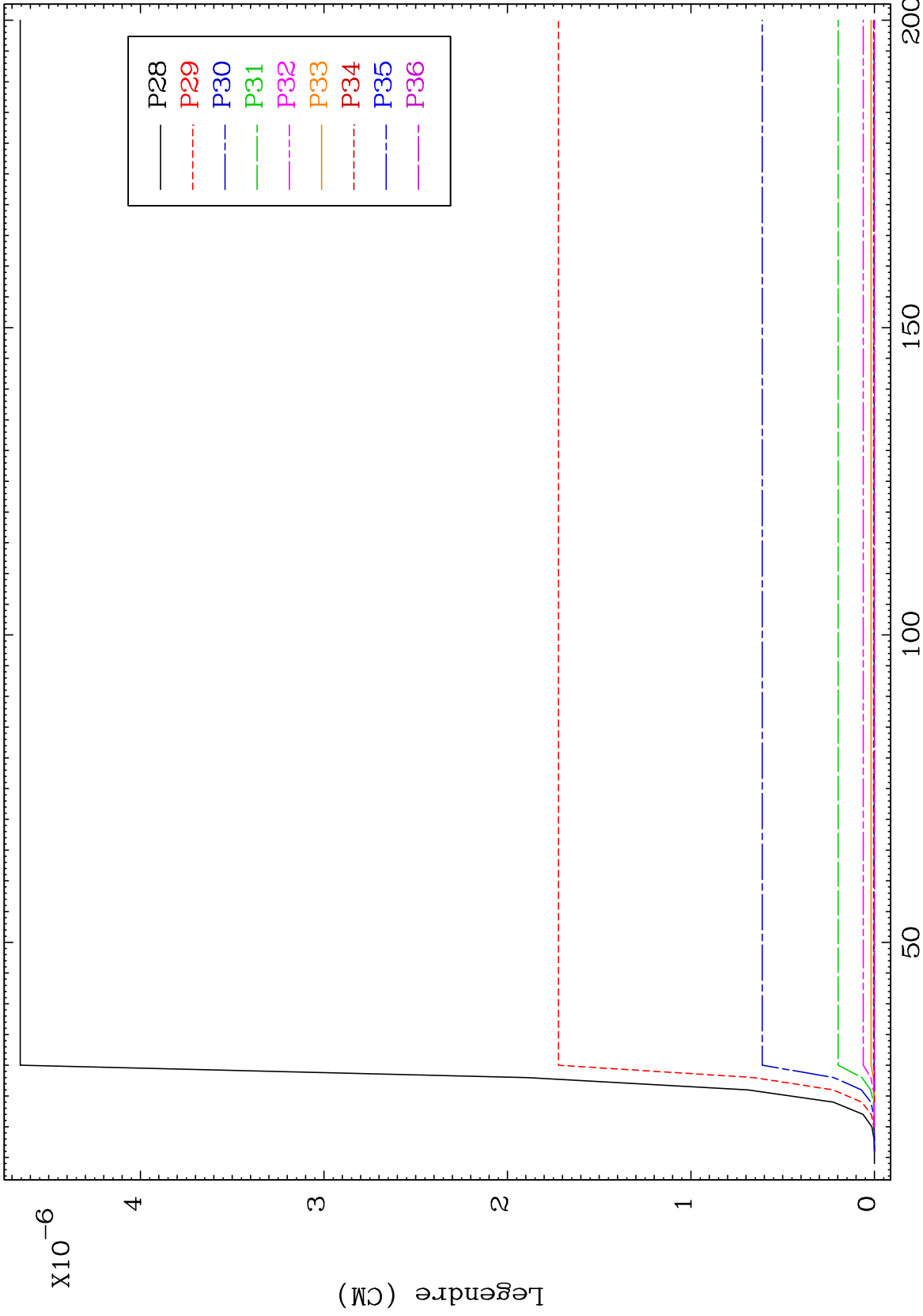
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

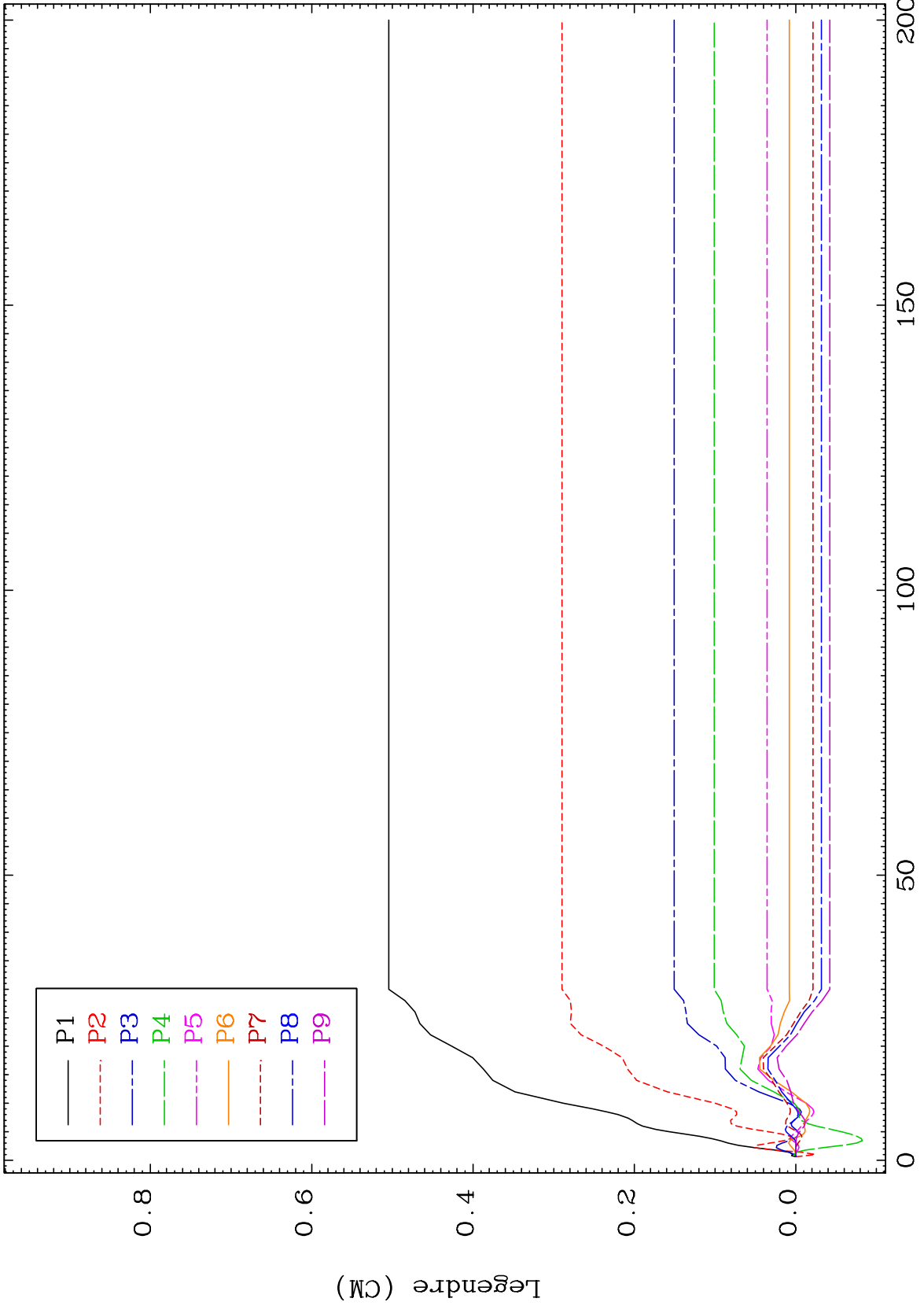


55

Incident Energy (MeV)

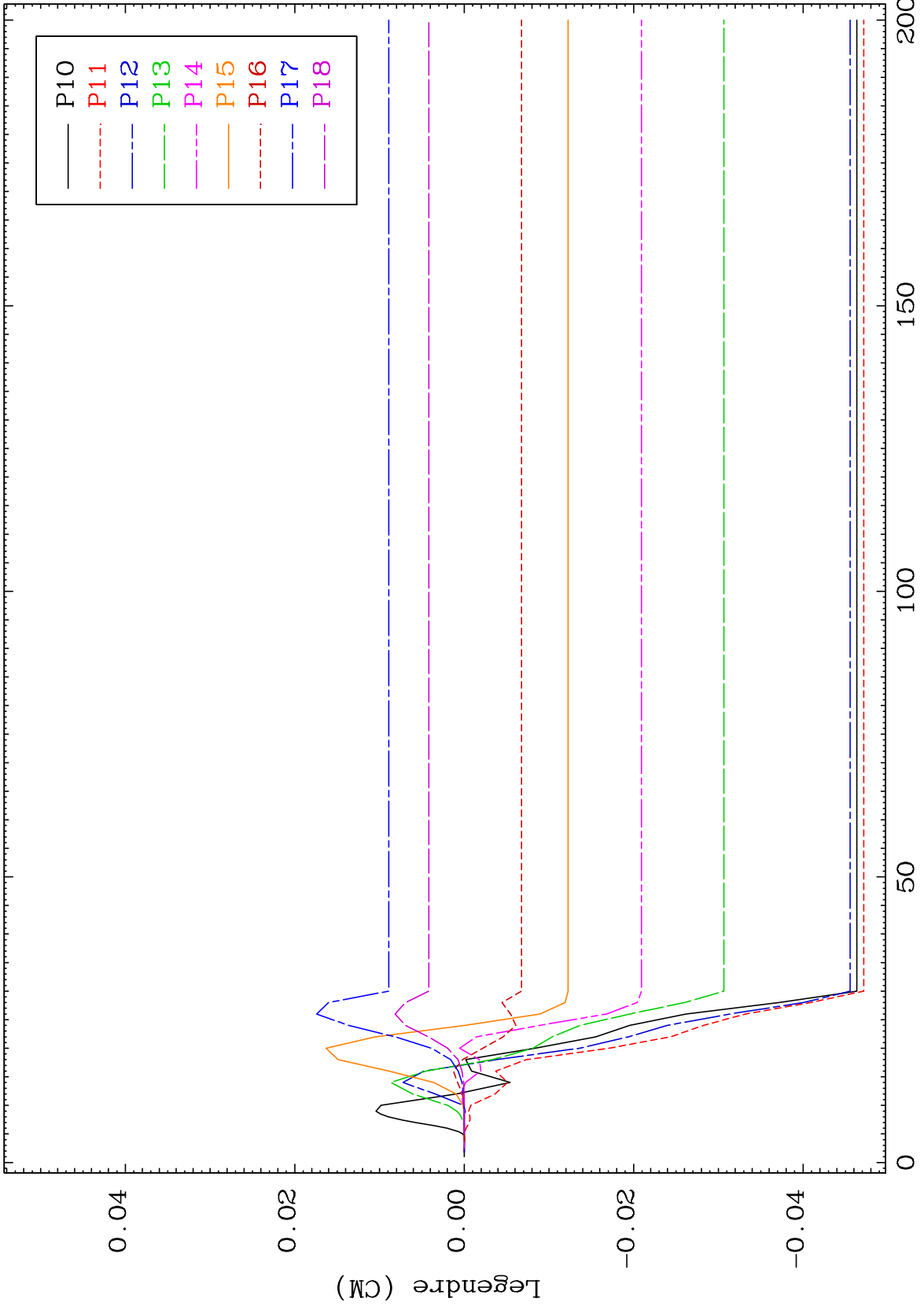
60-Nd-147

MAT 6040 MT= 60 (n,n') Level Legendre Coefficients 60-Nd-147



56 Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 60 (n,n') Level Legendre Coefficients 60-Nd-147

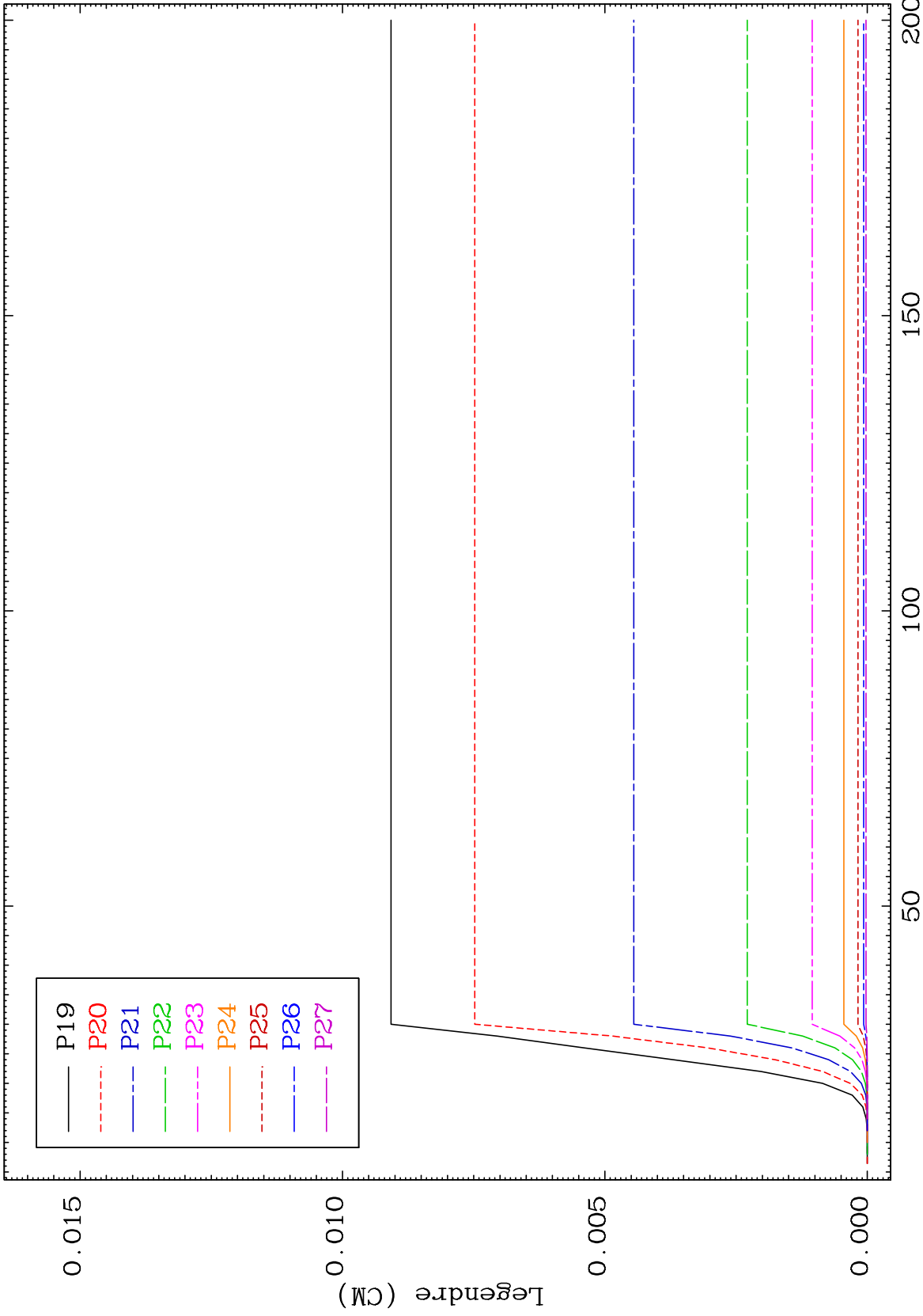


57 60-Nd-147

MAT 6040

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

60-Nd-147



58

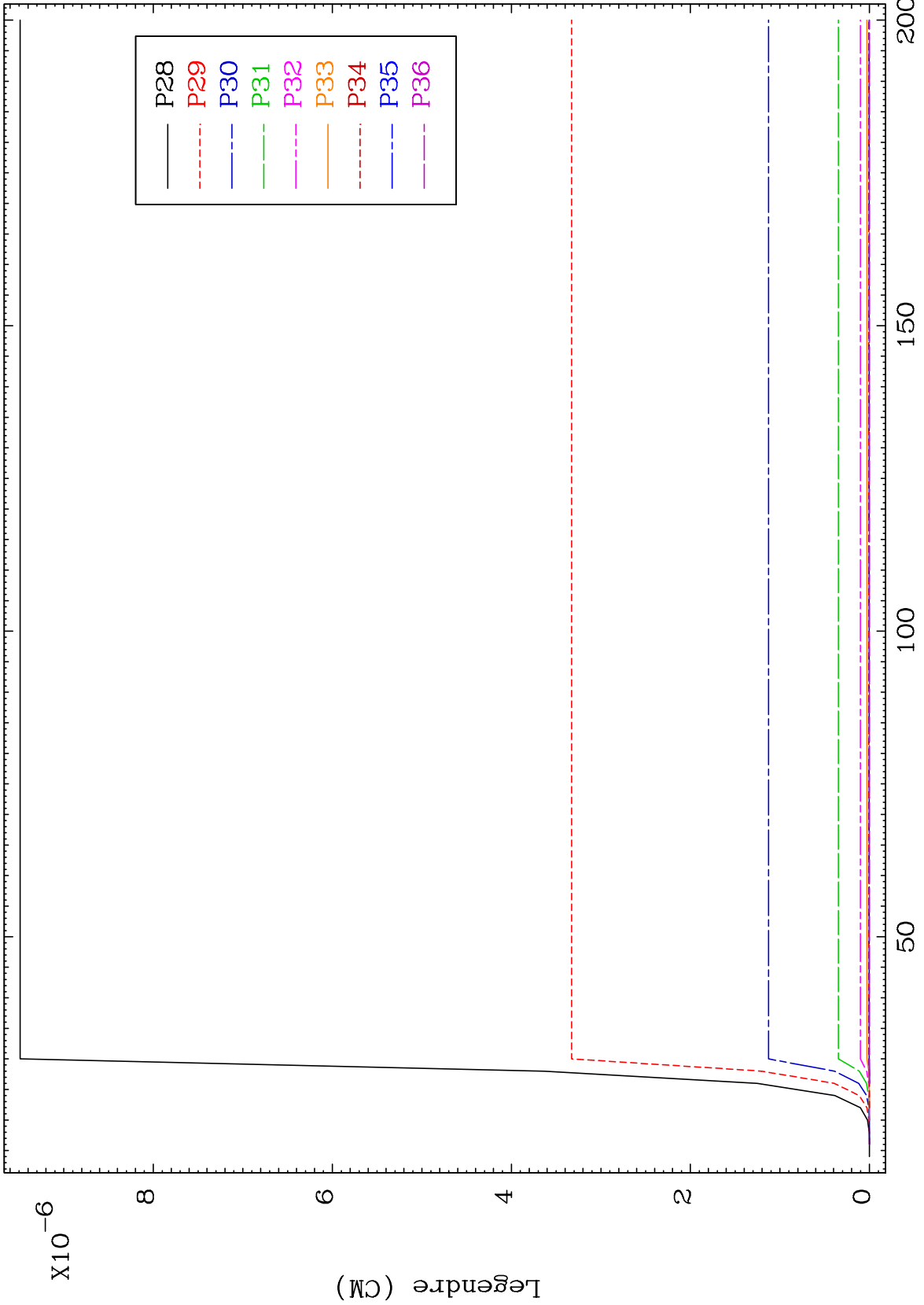
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

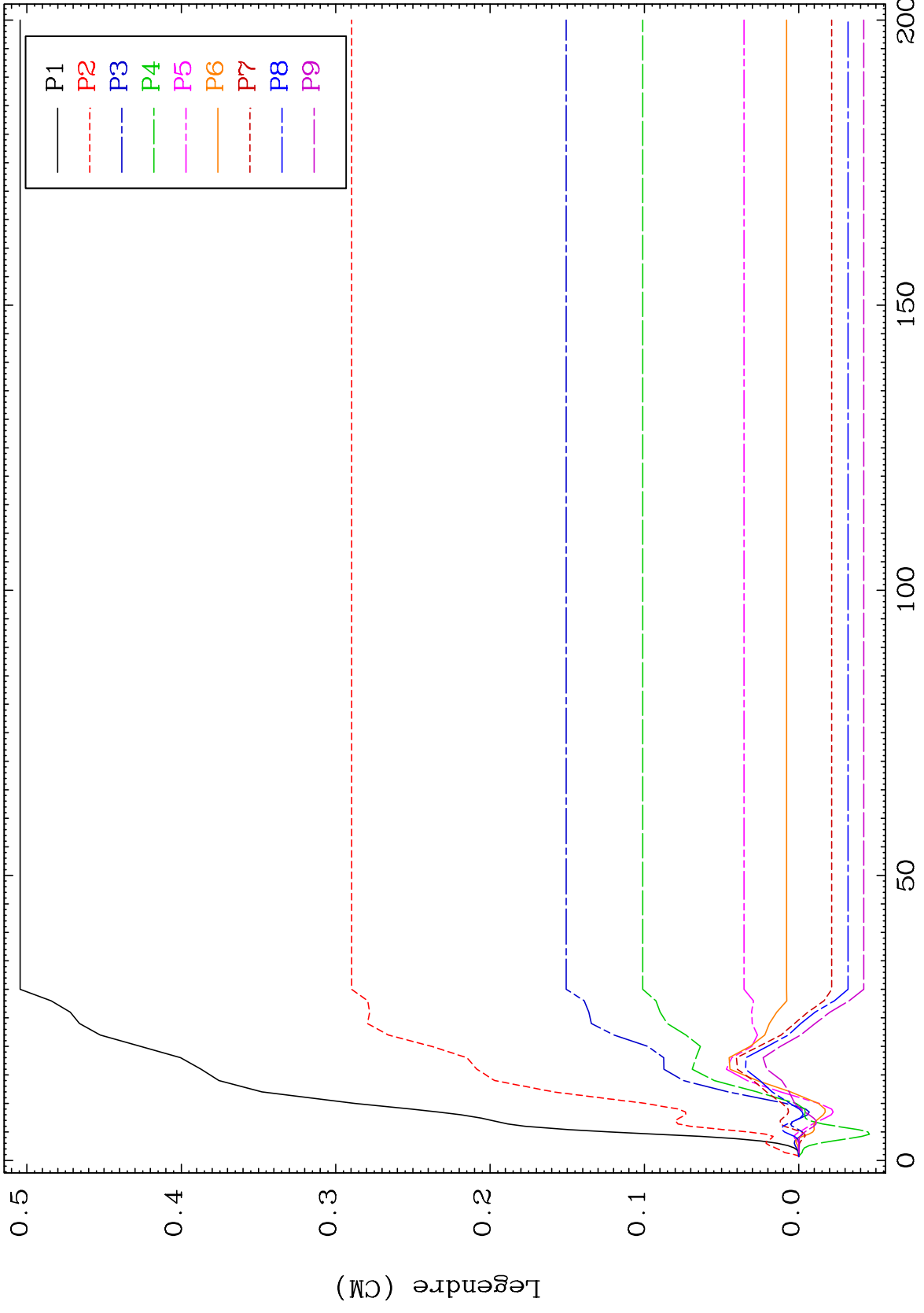


59

Incident Energy (MeV)

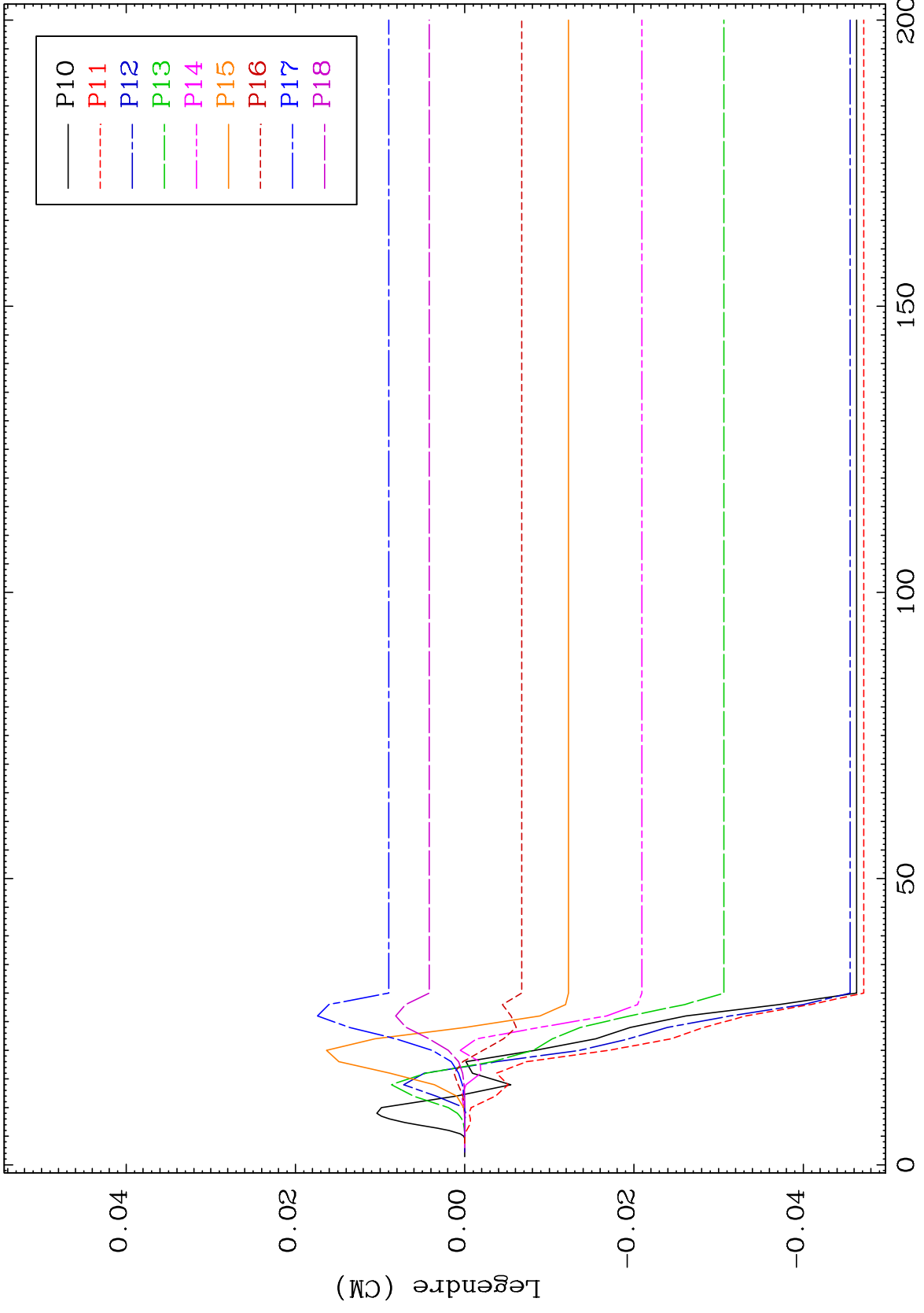
60-Nd-147

MAT 6040 MT= 61 (n,n') Level Legendre Coefficients 60-Nd-147



Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 61 (n,n') Level Legendre Coefficients 60-Nd-147

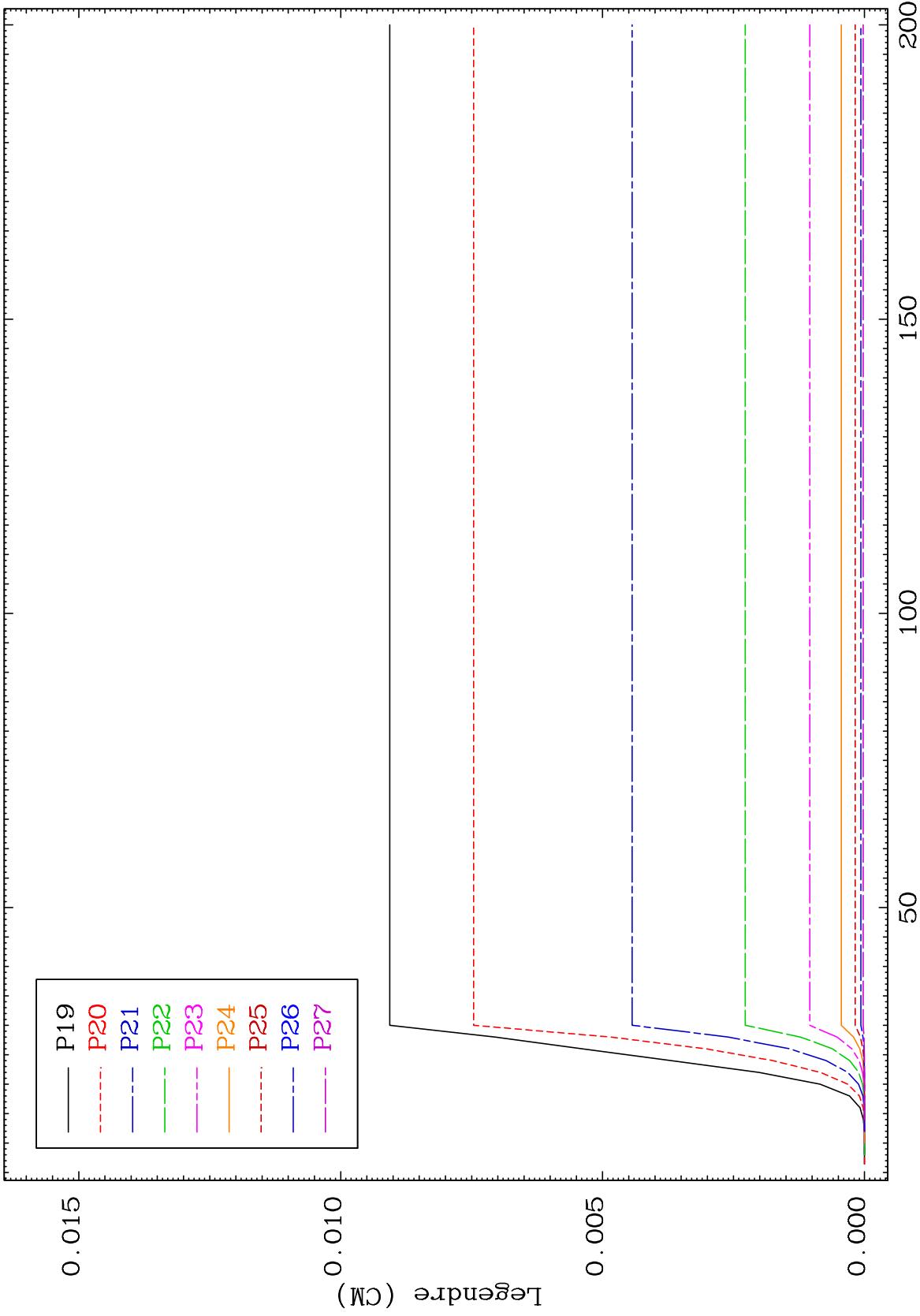


61 60-Nd-147

MAT 6040

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

60-Nd-147



62

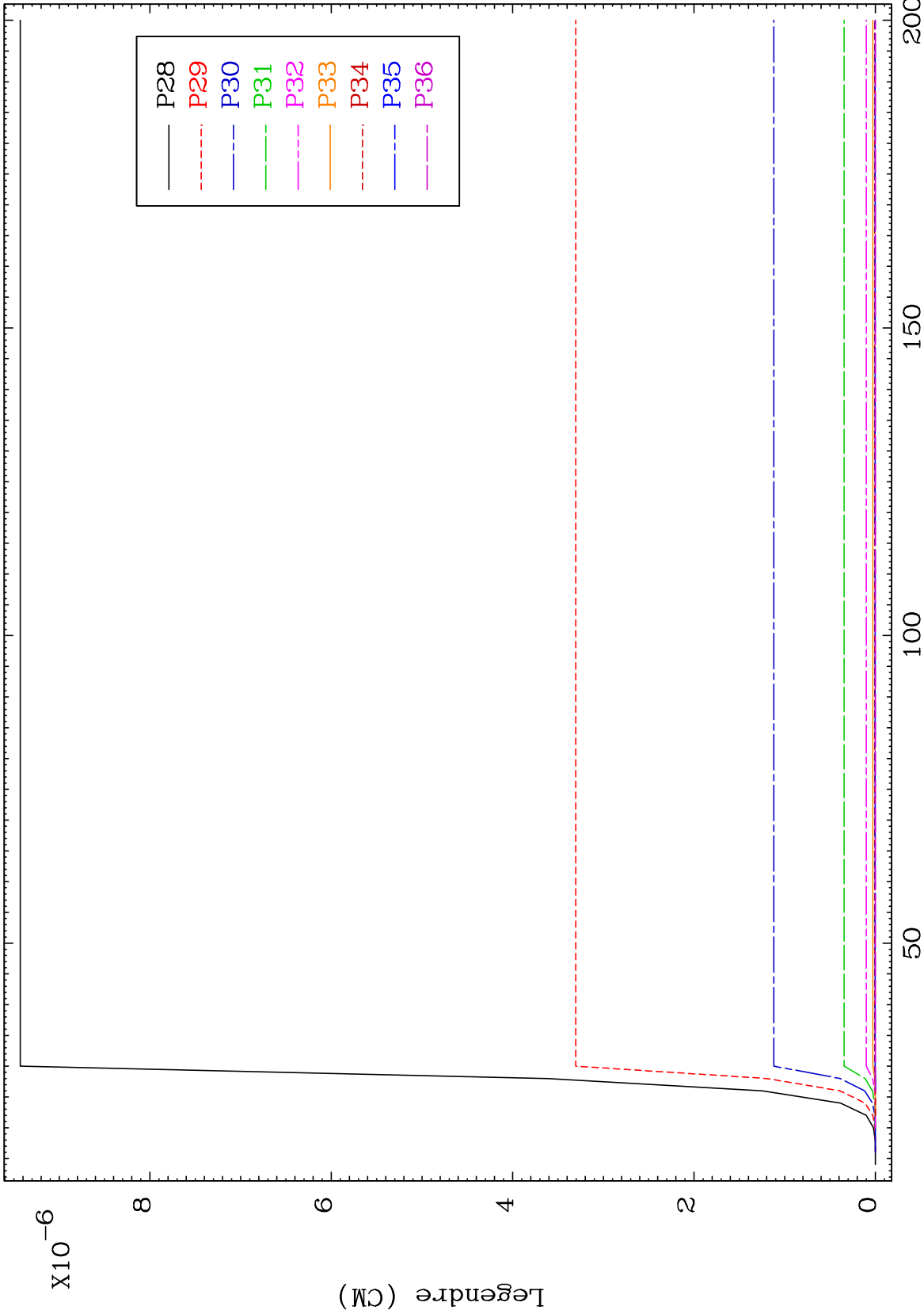
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

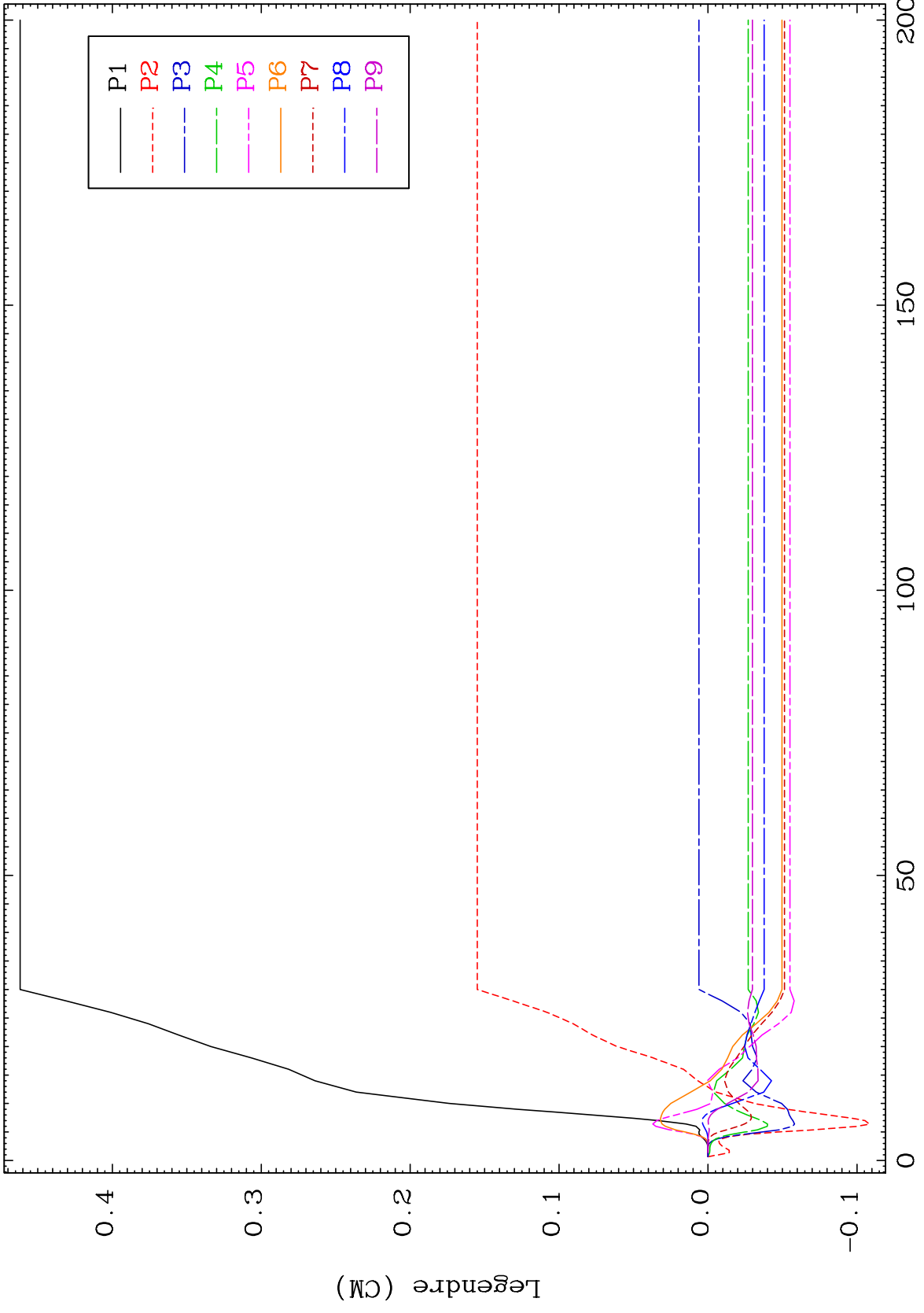


63

Incident Energy (MeV)

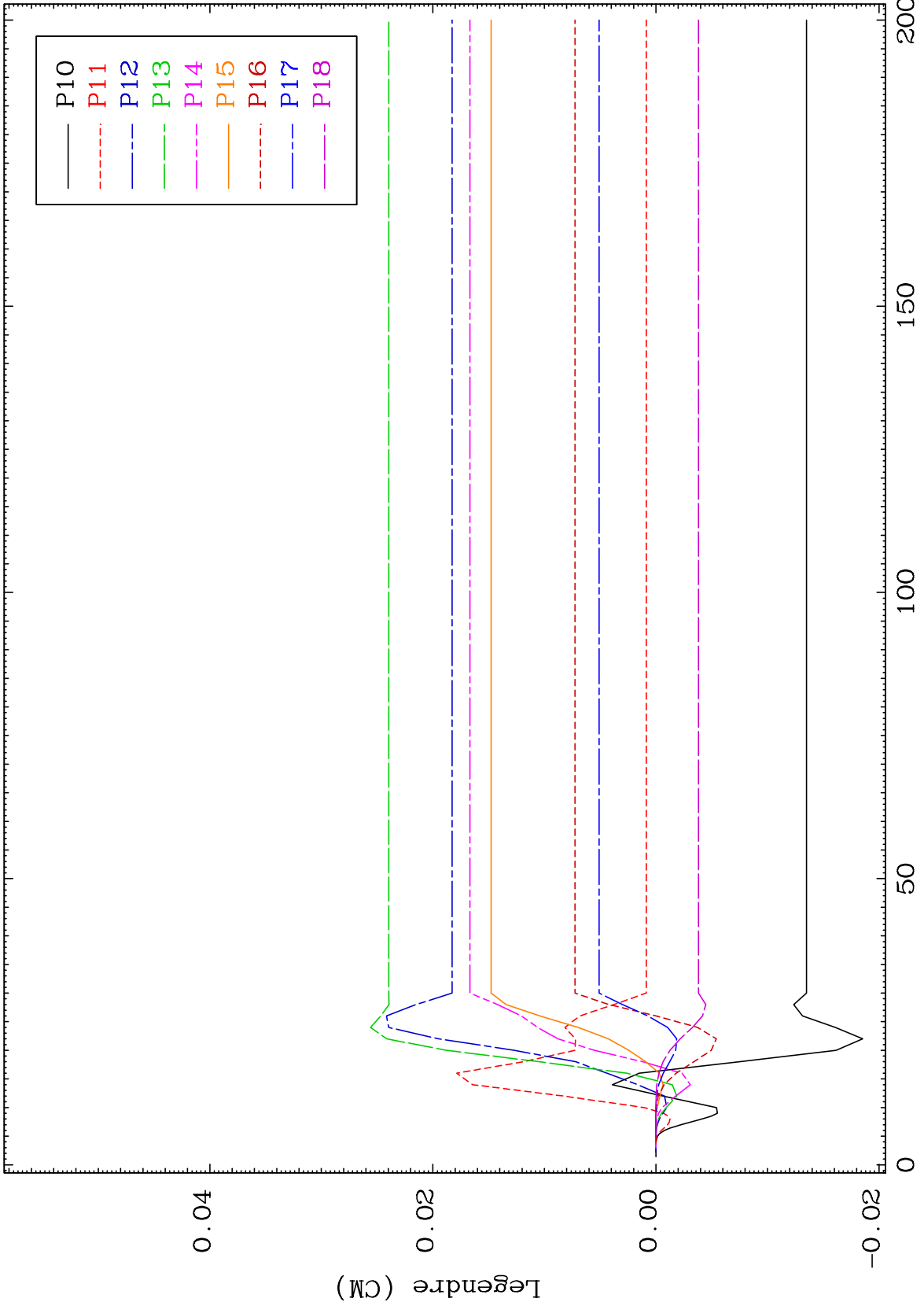
60-Nd-147

MAT 6040 MT= 62 (n,n') Level Legendre Coefficients 60-Nd-147



64 60-Nd-147 Incident Energy (MeV)

MAT 6040 MT= 62 (n,n') Level Legendre Coefficients 60-Nd-147

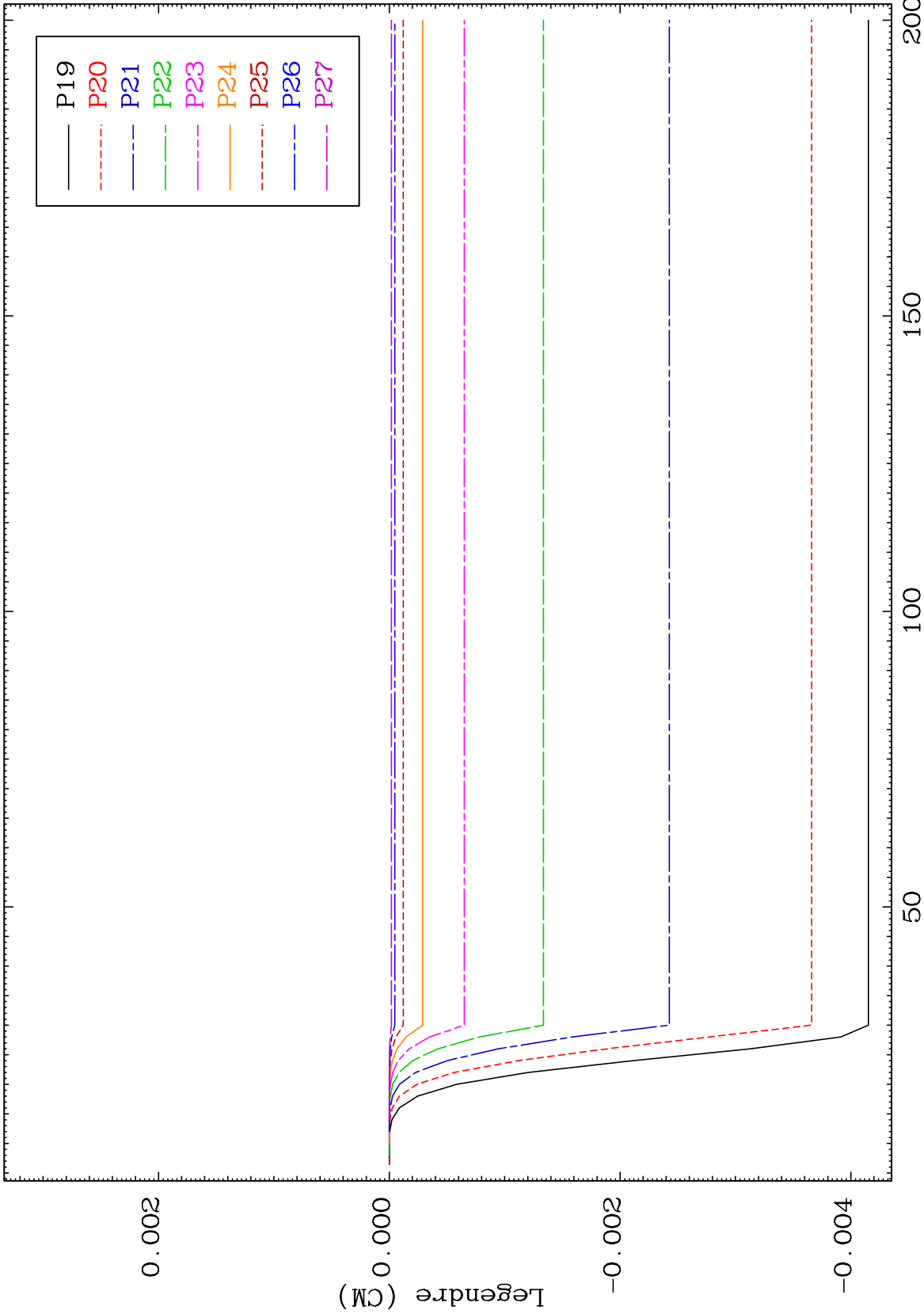


65 60-Nd-147

MAT 6040

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

60-Nd-147



66

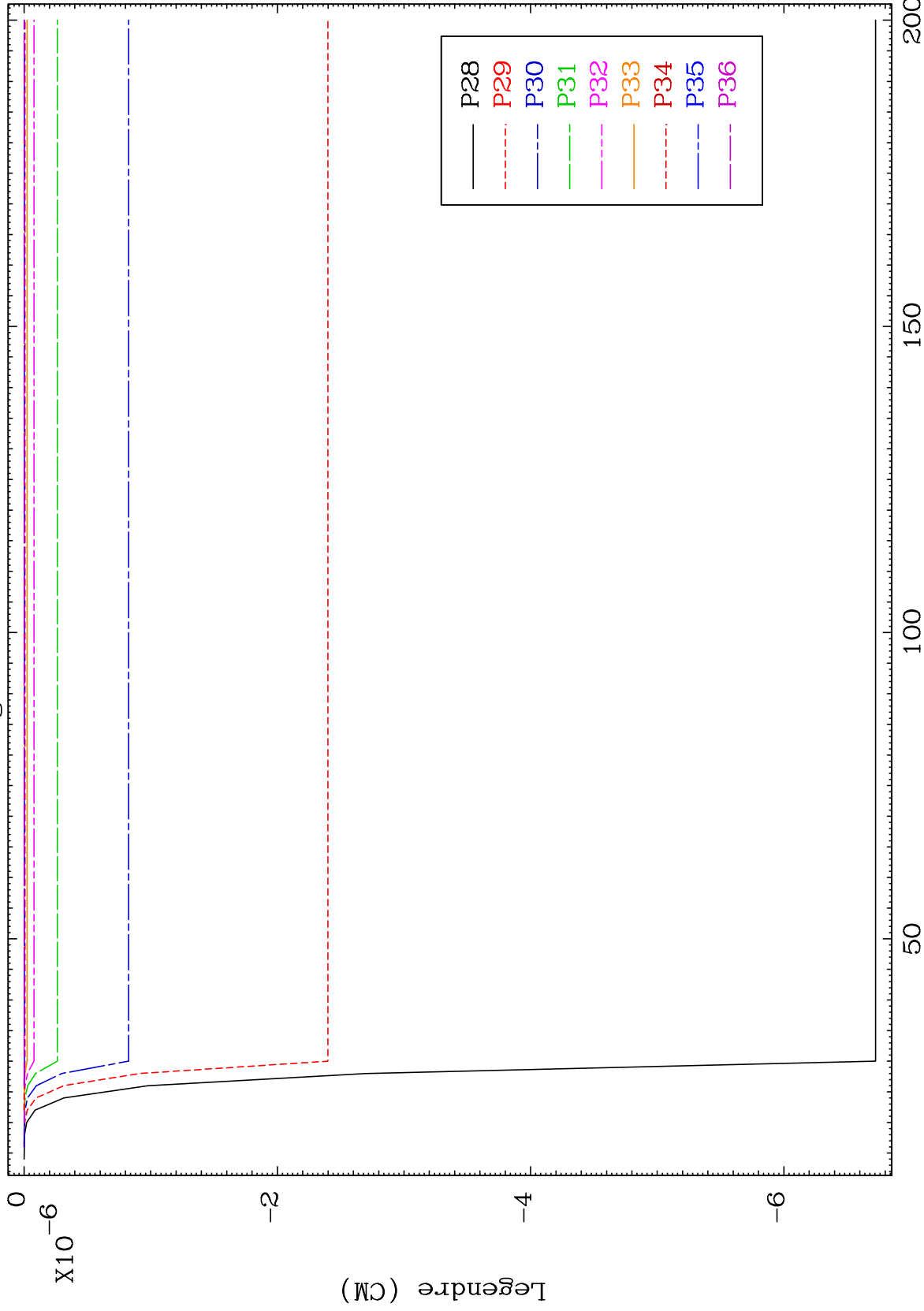
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

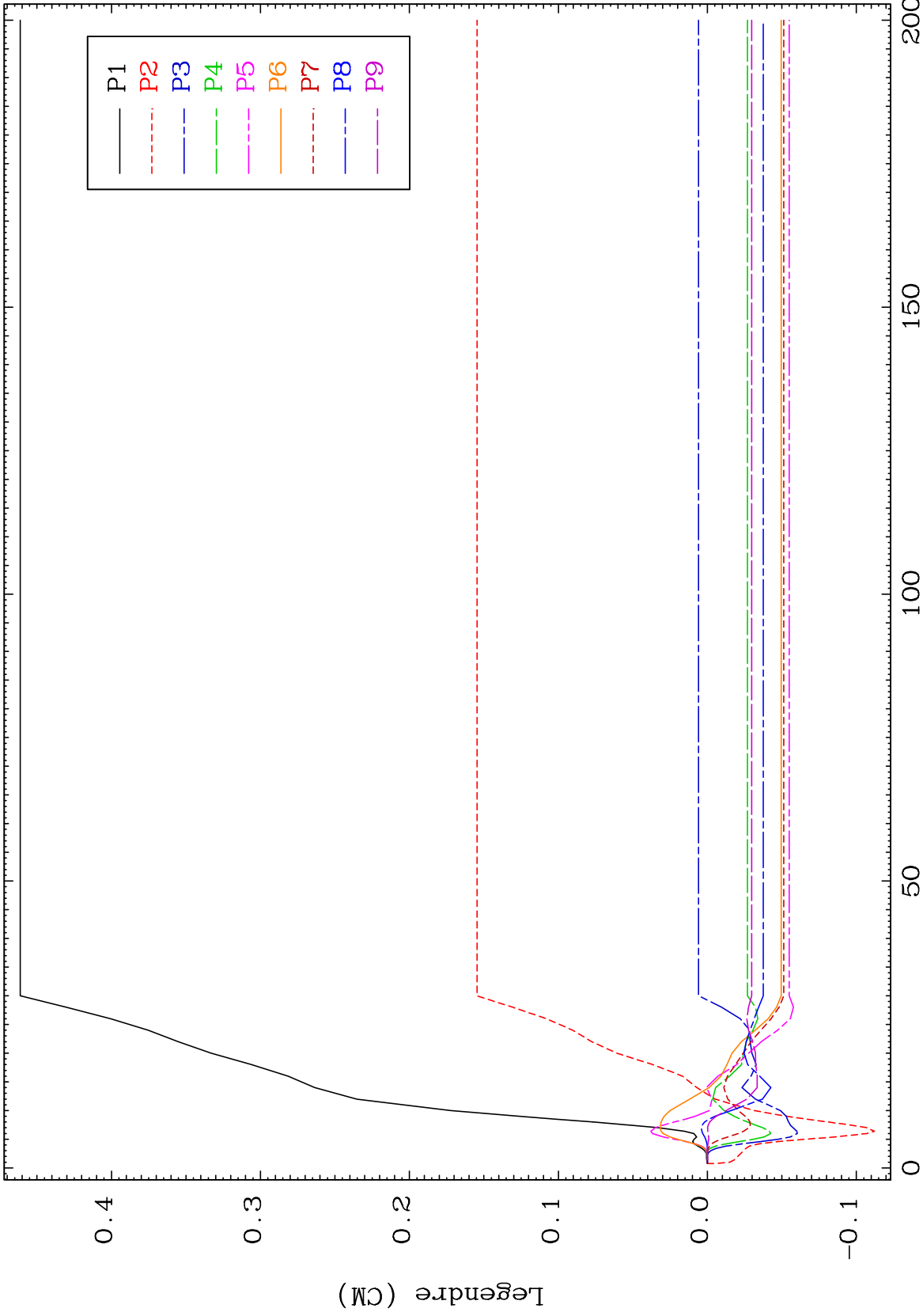
60-Nd-147



MAT 6040

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

60-Nd-147



68

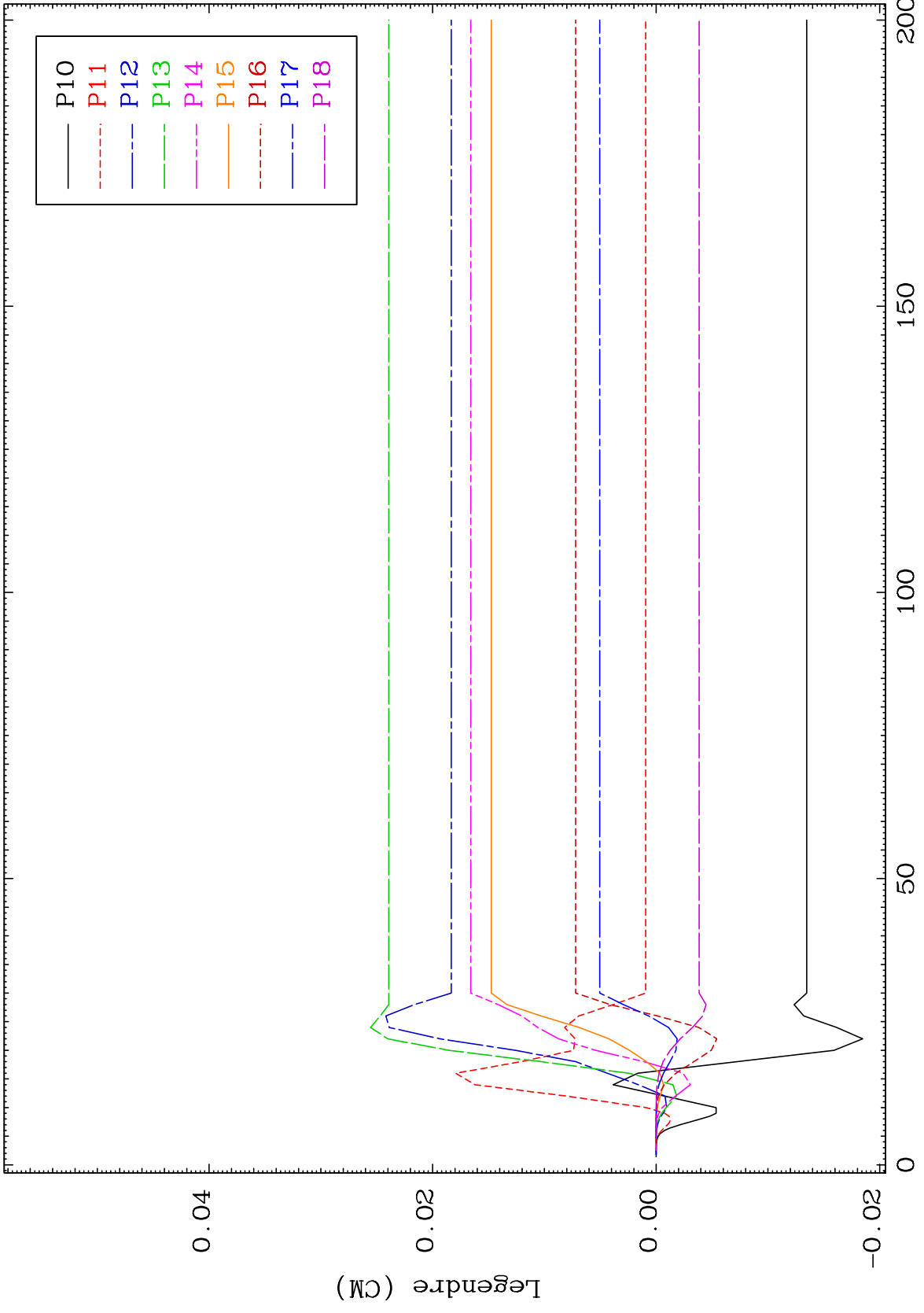
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147



69

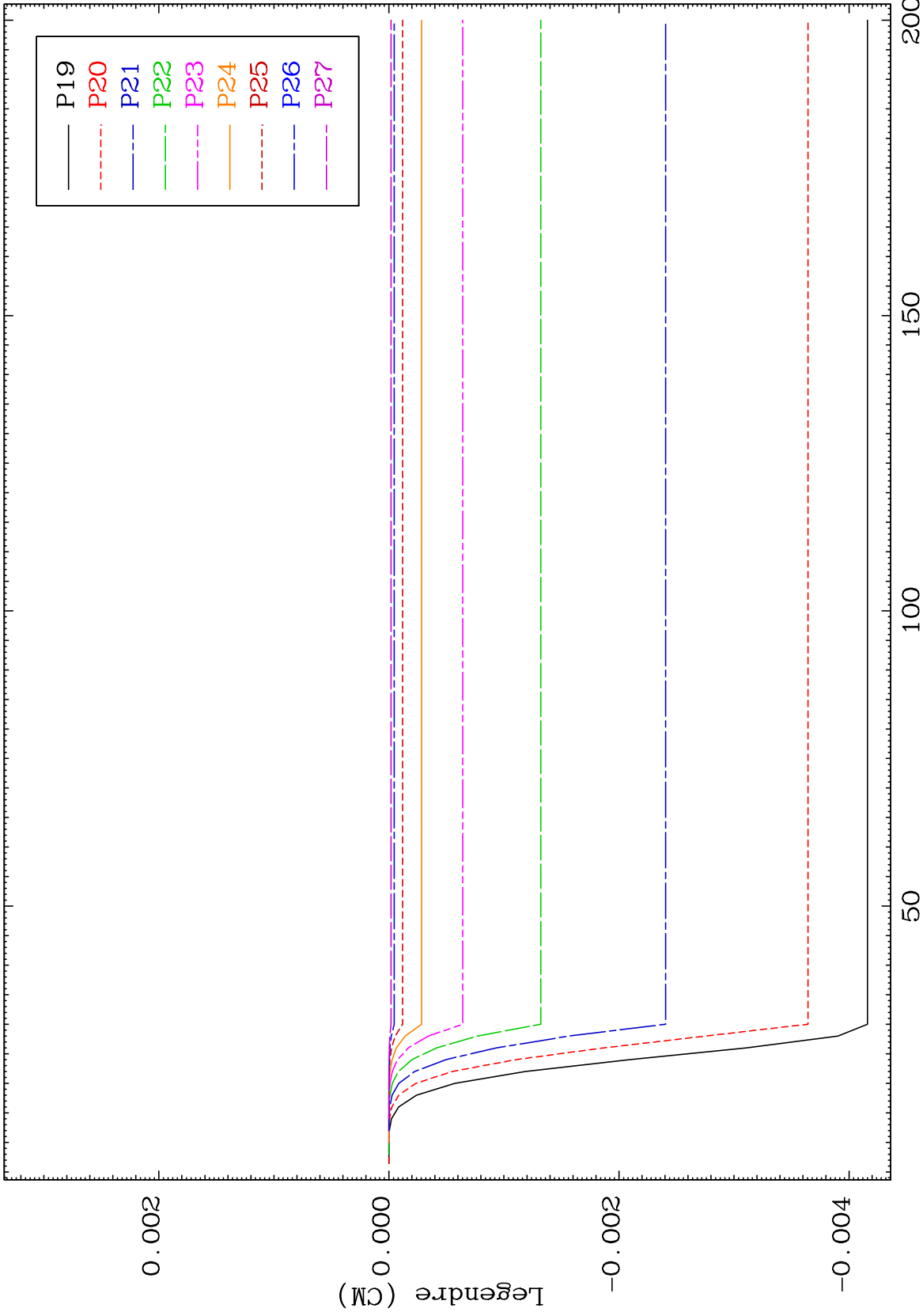
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147



70

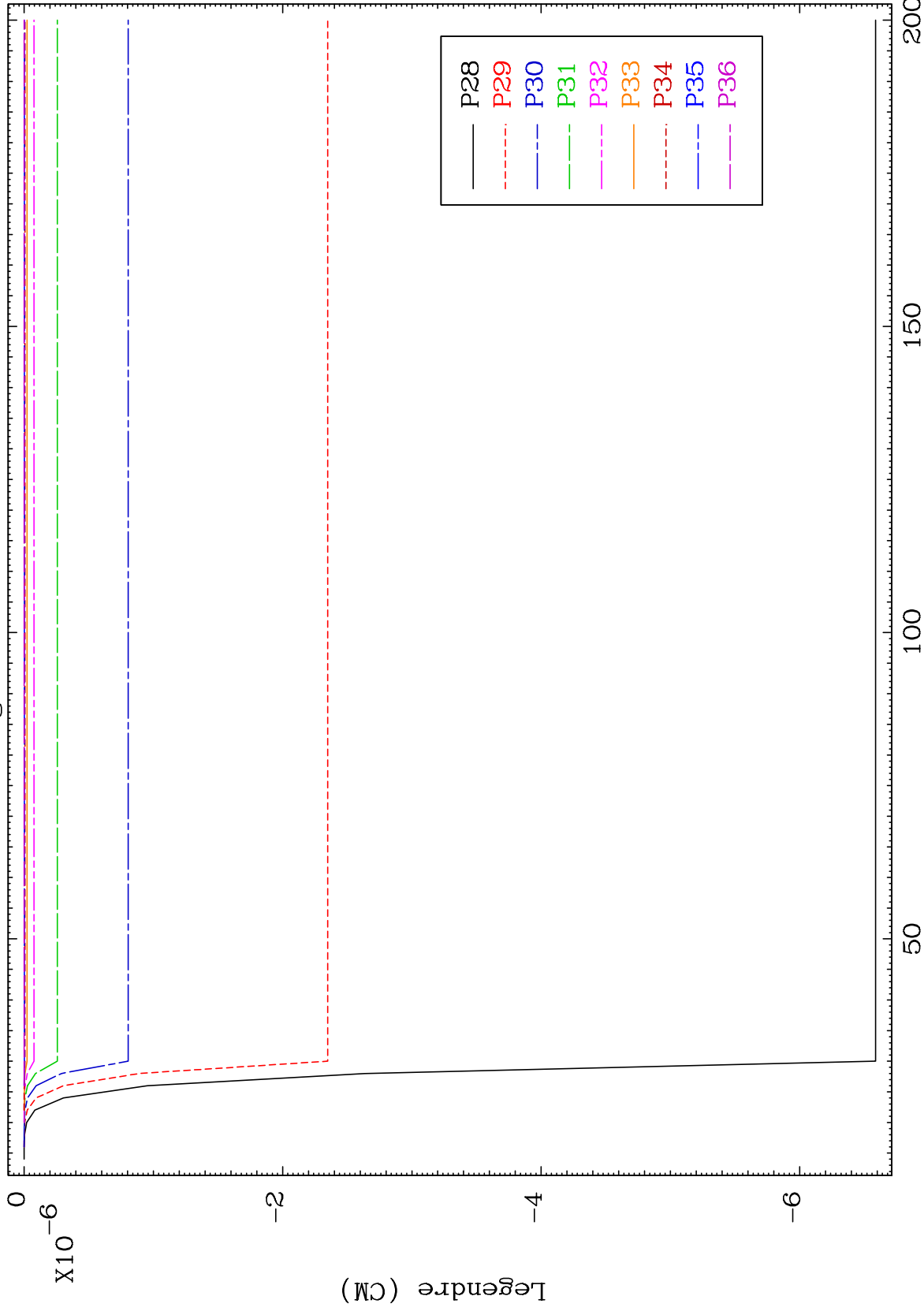
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

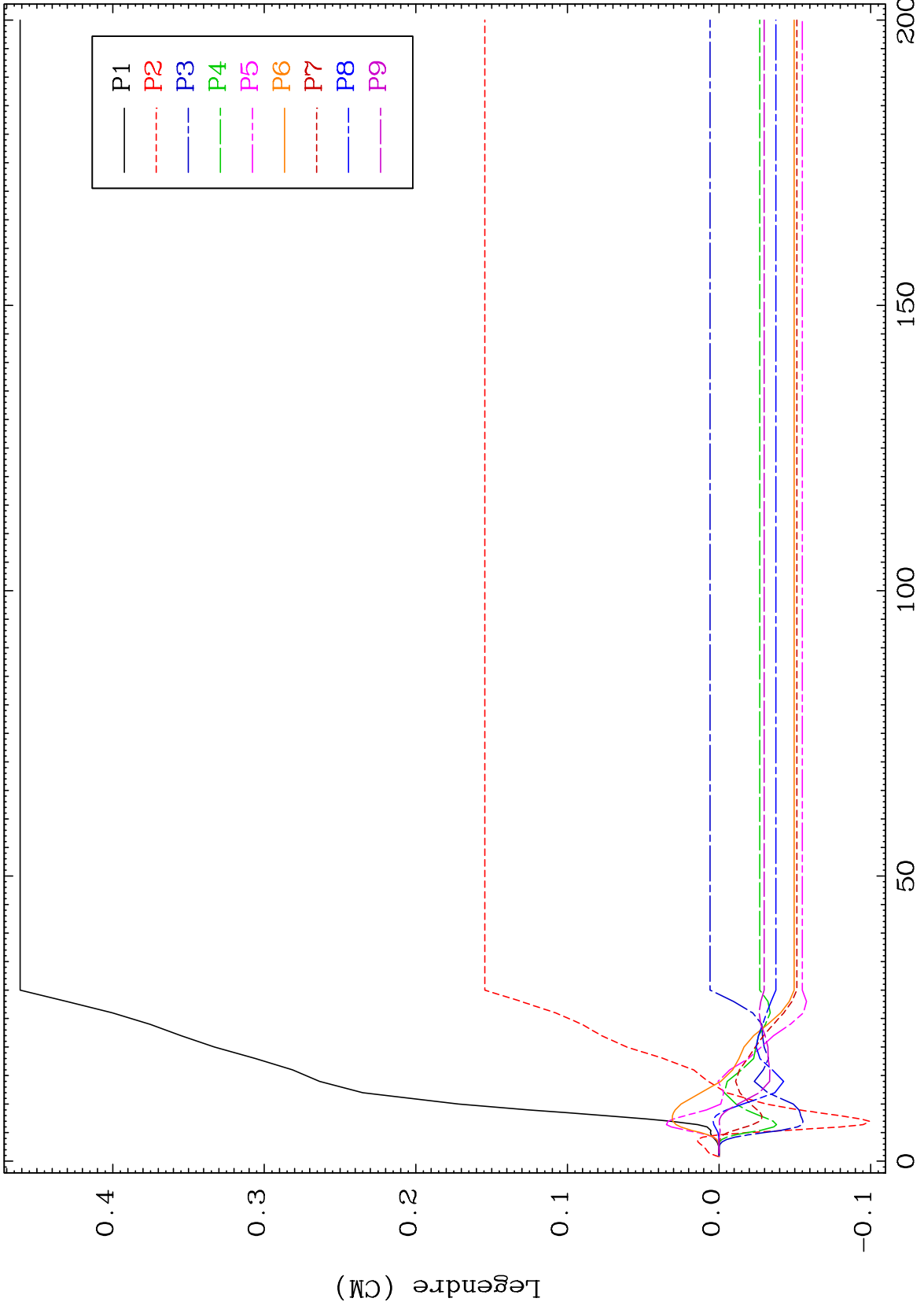


60-Nd-147

Incident Energy (MeV)

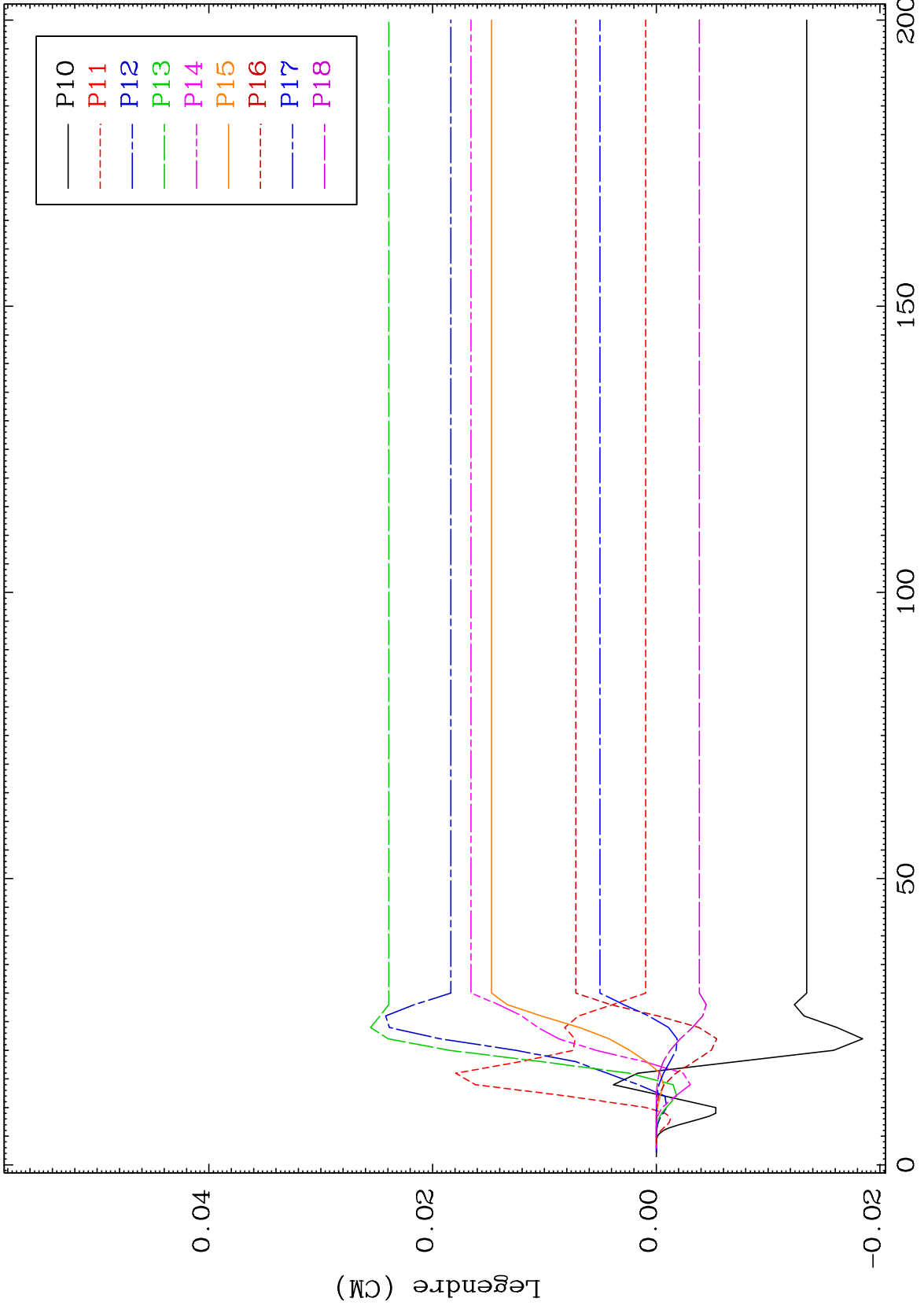
71

MAT 6040 MT= 64 (n,n') Level Legendre Coefficients 60-Nd-147



72 60-Nd-147

MAT 6040 MT= 64 (n,n') Level Legendre Coefficients 60-Nd-147

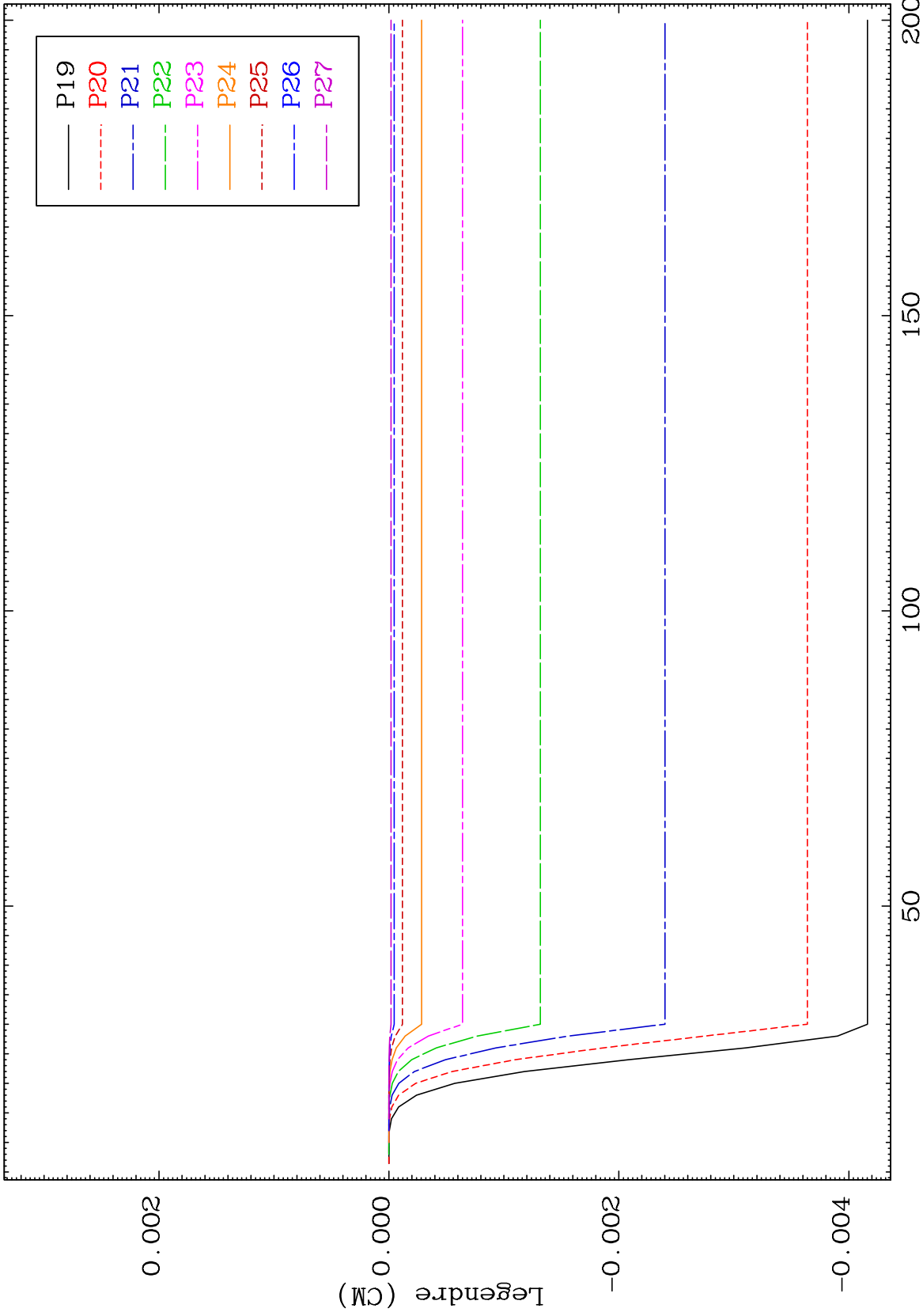


73 60-Nd-147

MAT 6040

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

60-Nd-147



74

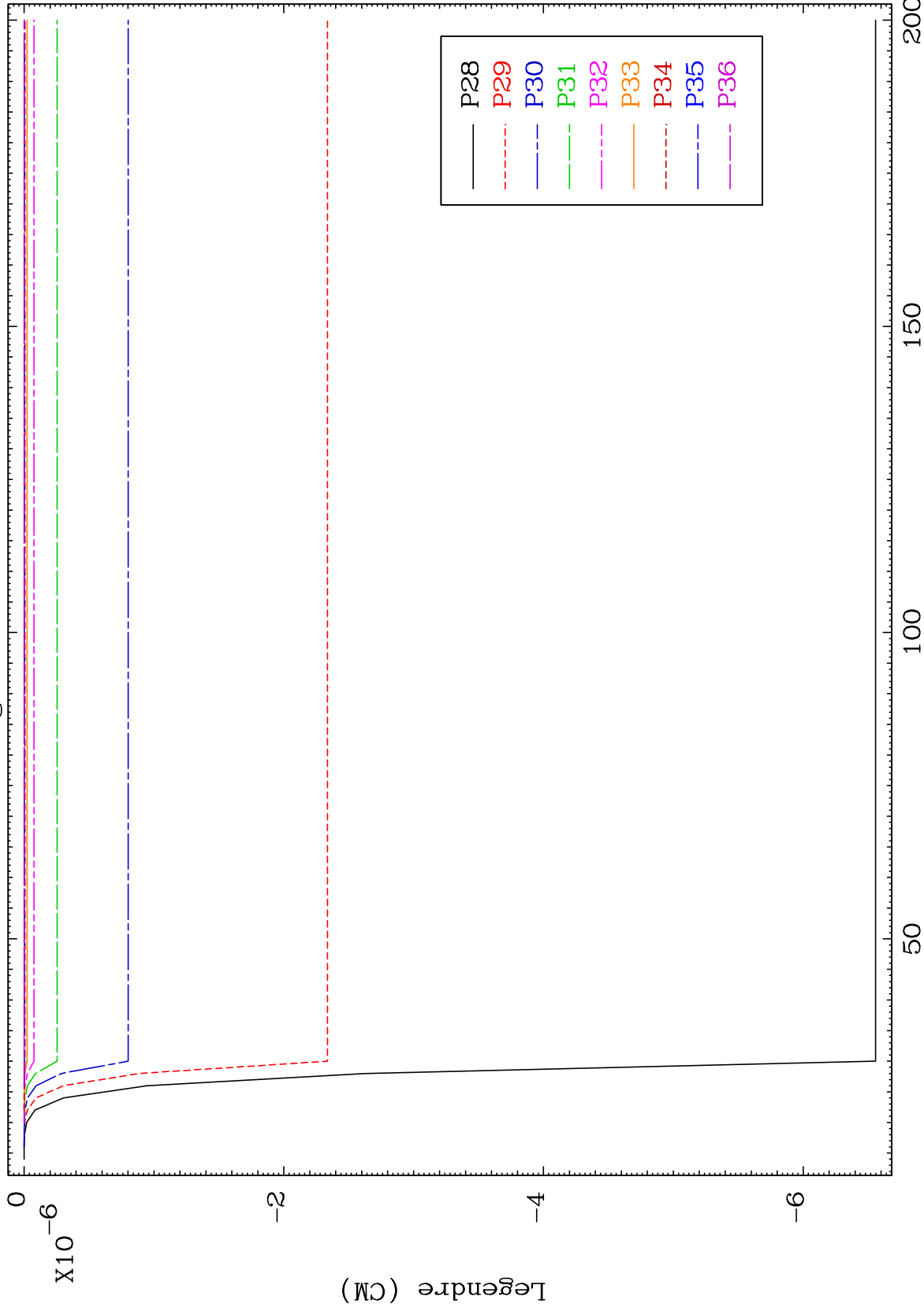
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

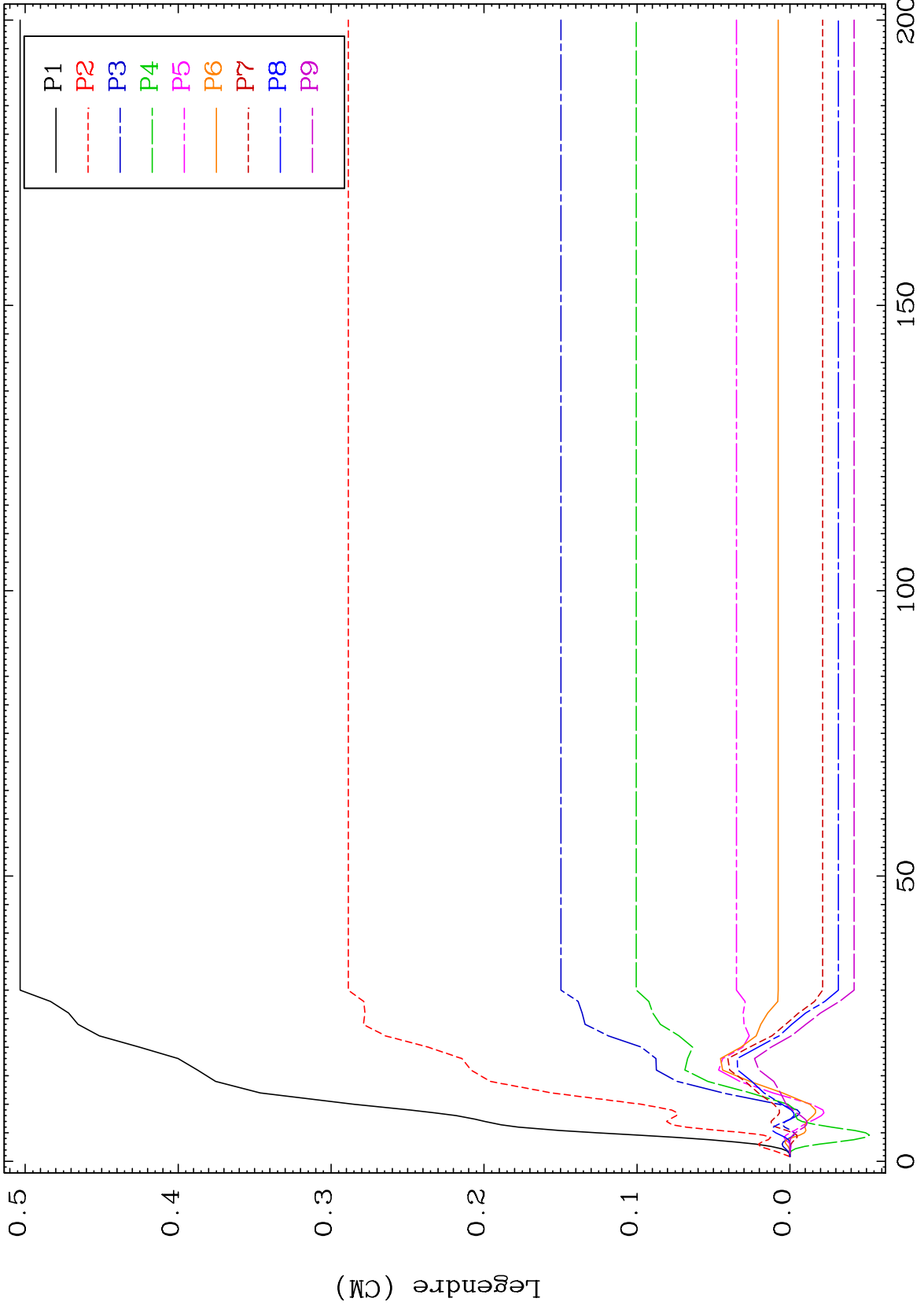


60-Nd-147

Incident Energy (MeV)

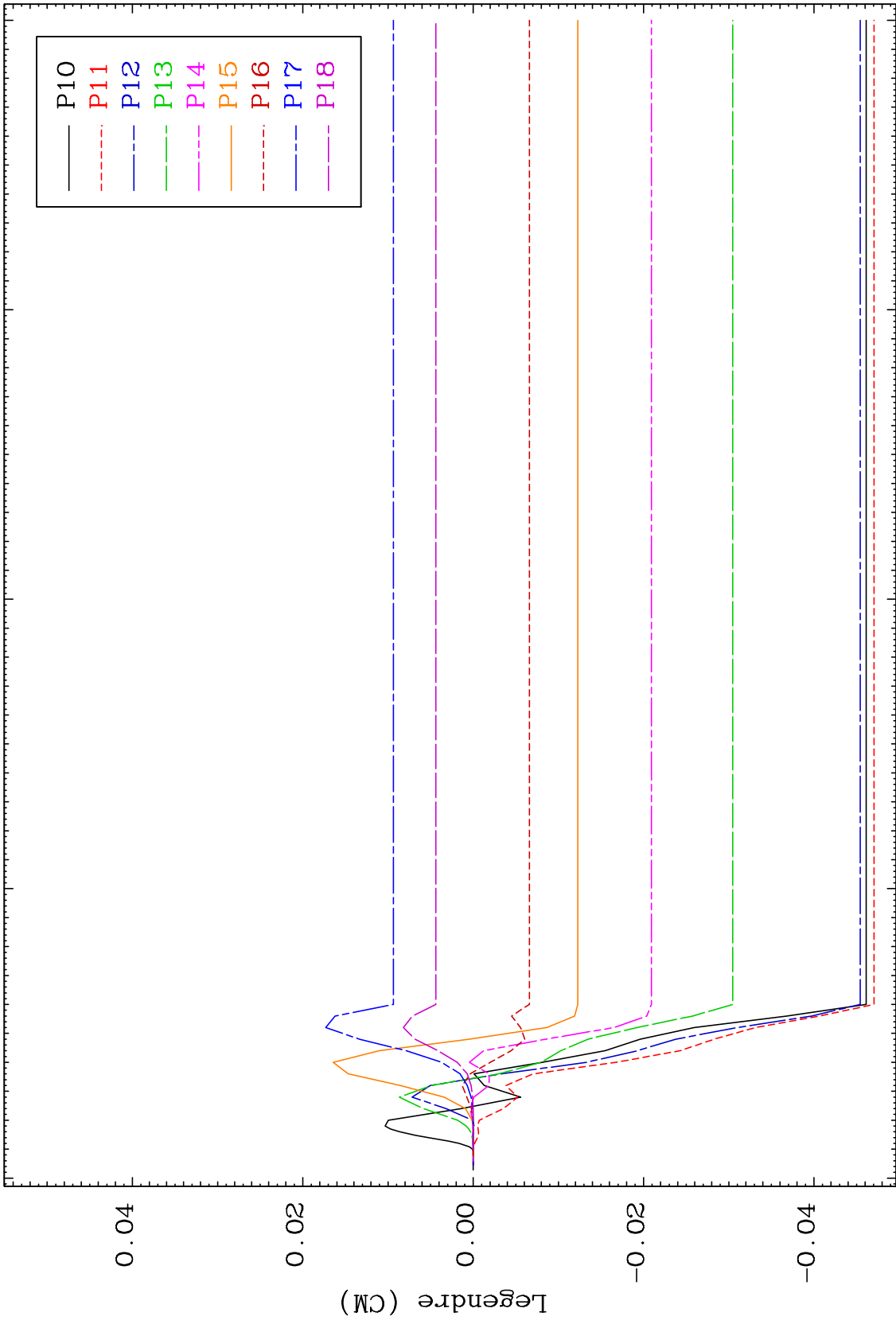
75

MAT 6040 MT= 65 (n,n') Level Legendre Coefficients 60-Nd-147



76 Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 65 (n,n') Level Legendre Coefficients 60-Nd-147

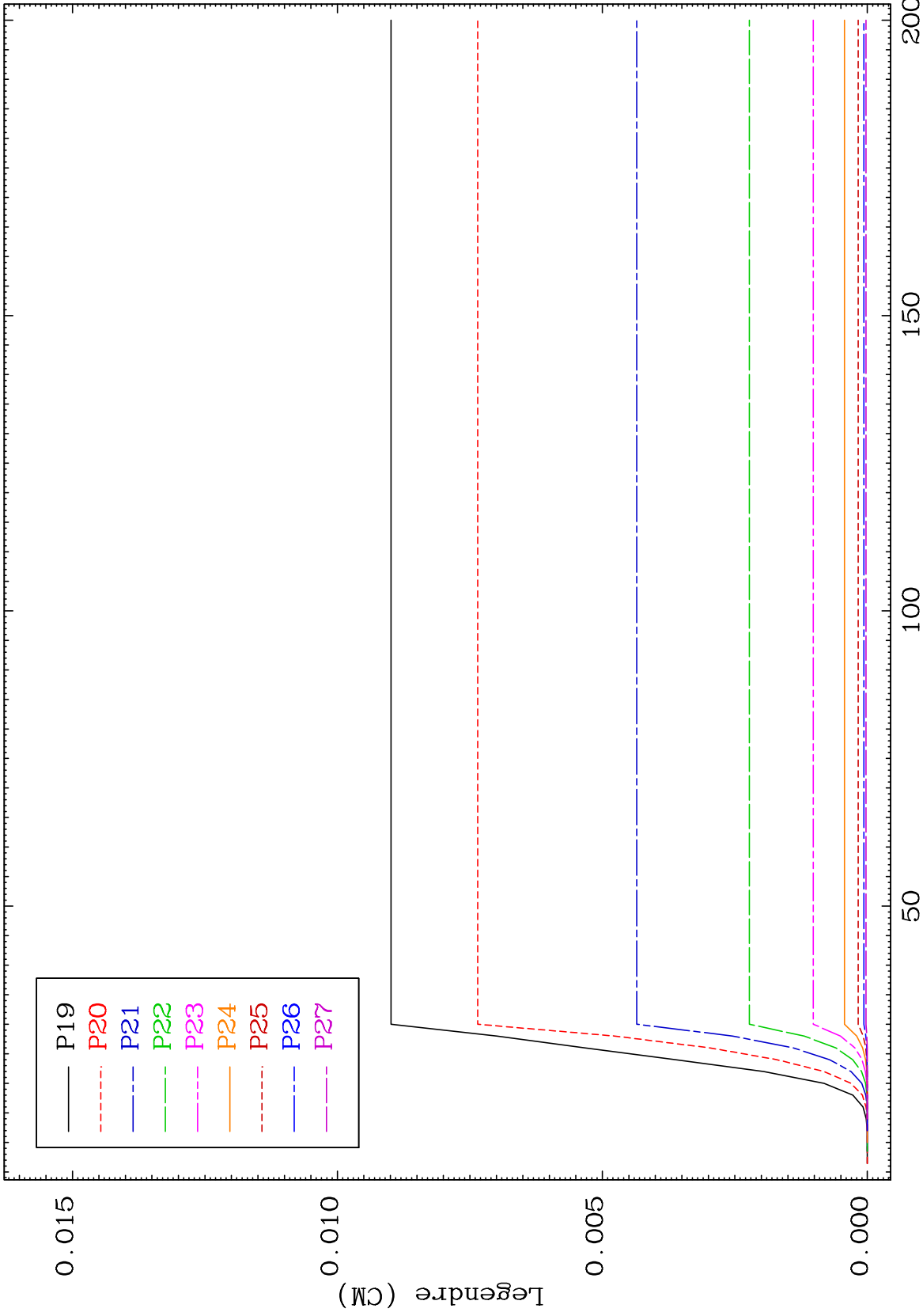


77 60-Nd-147

MAT 6040

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

60-Nd-147



78

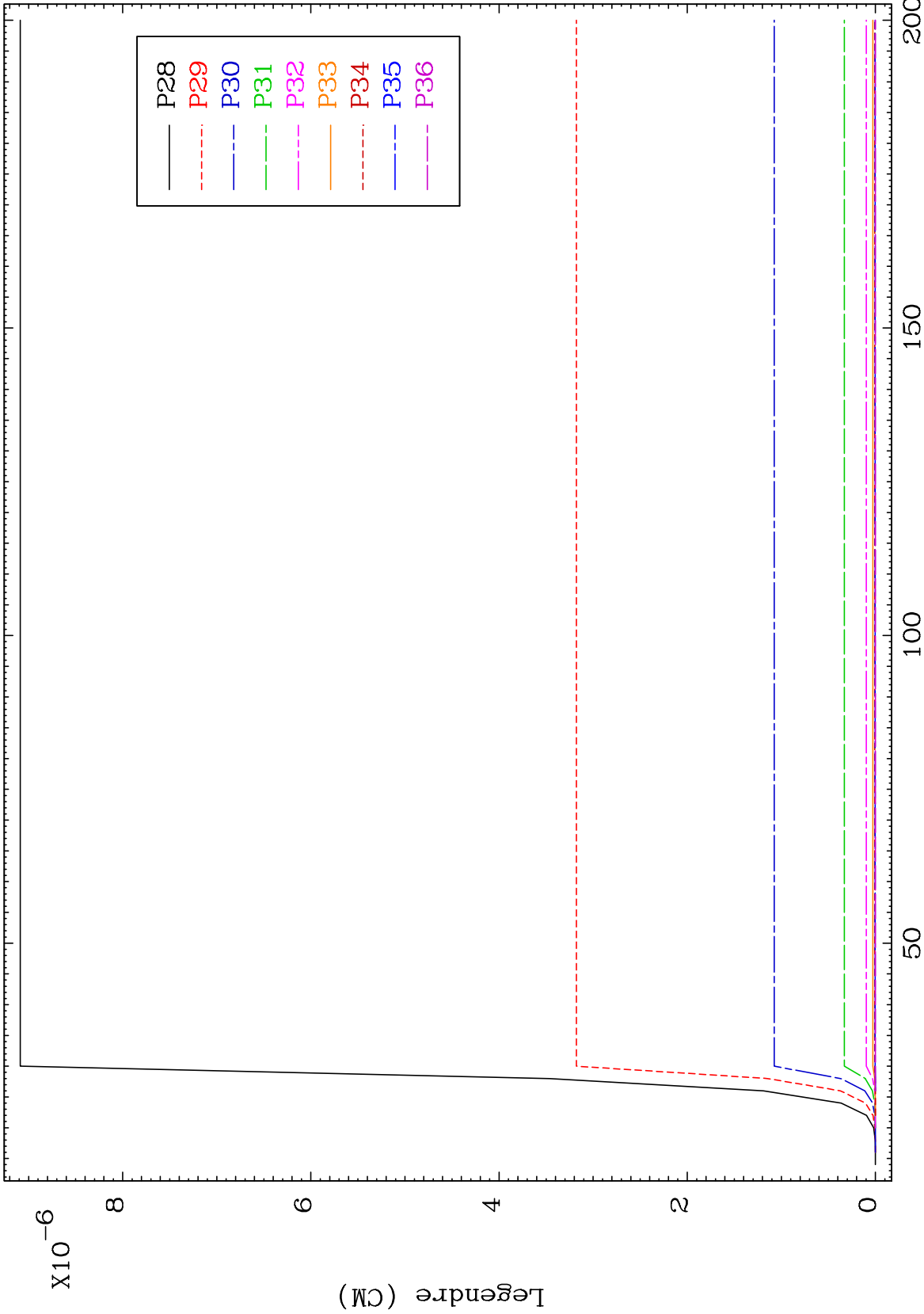
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147



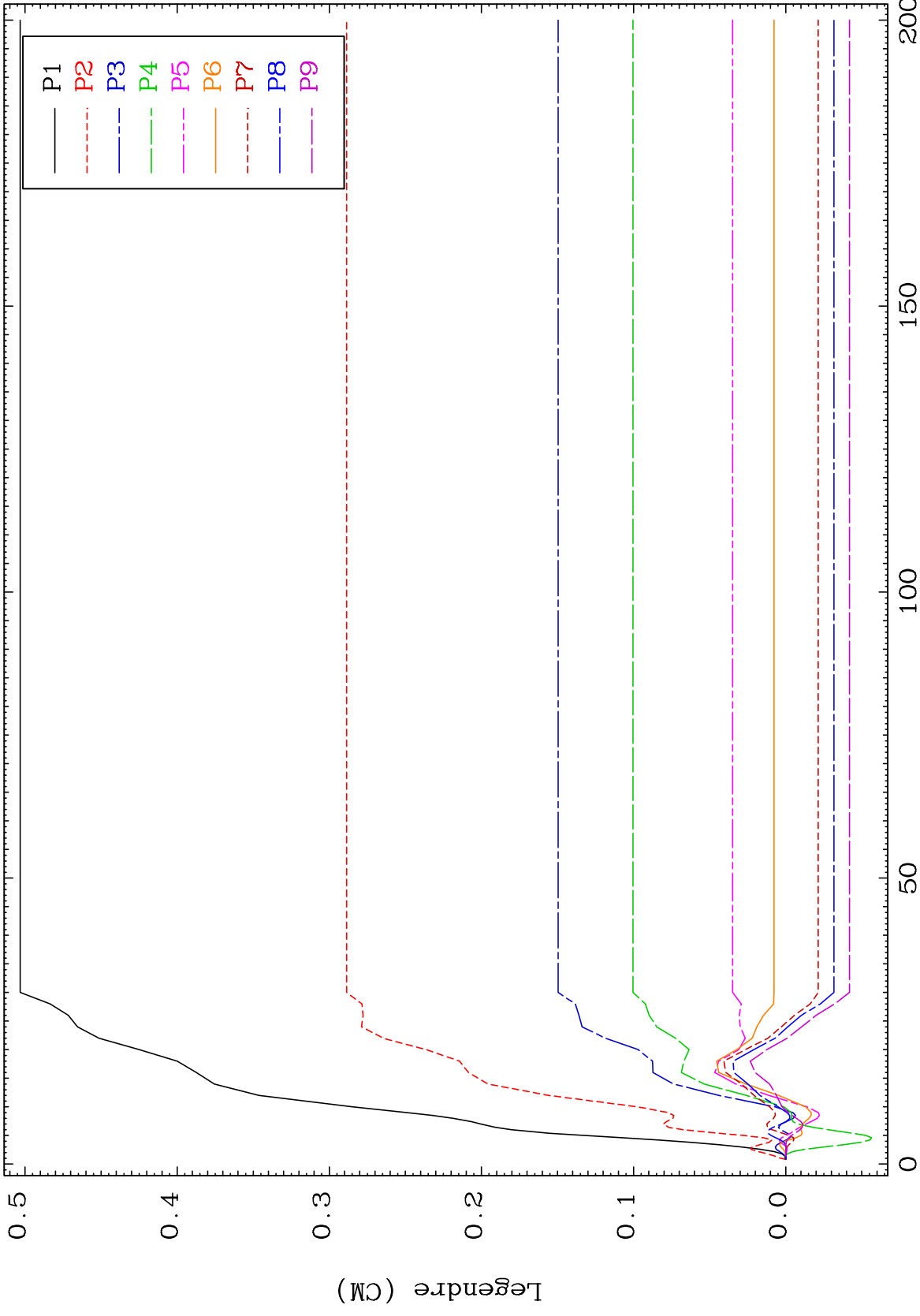
79

60-Nd-147

MAT 6040

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

60-Nd-147

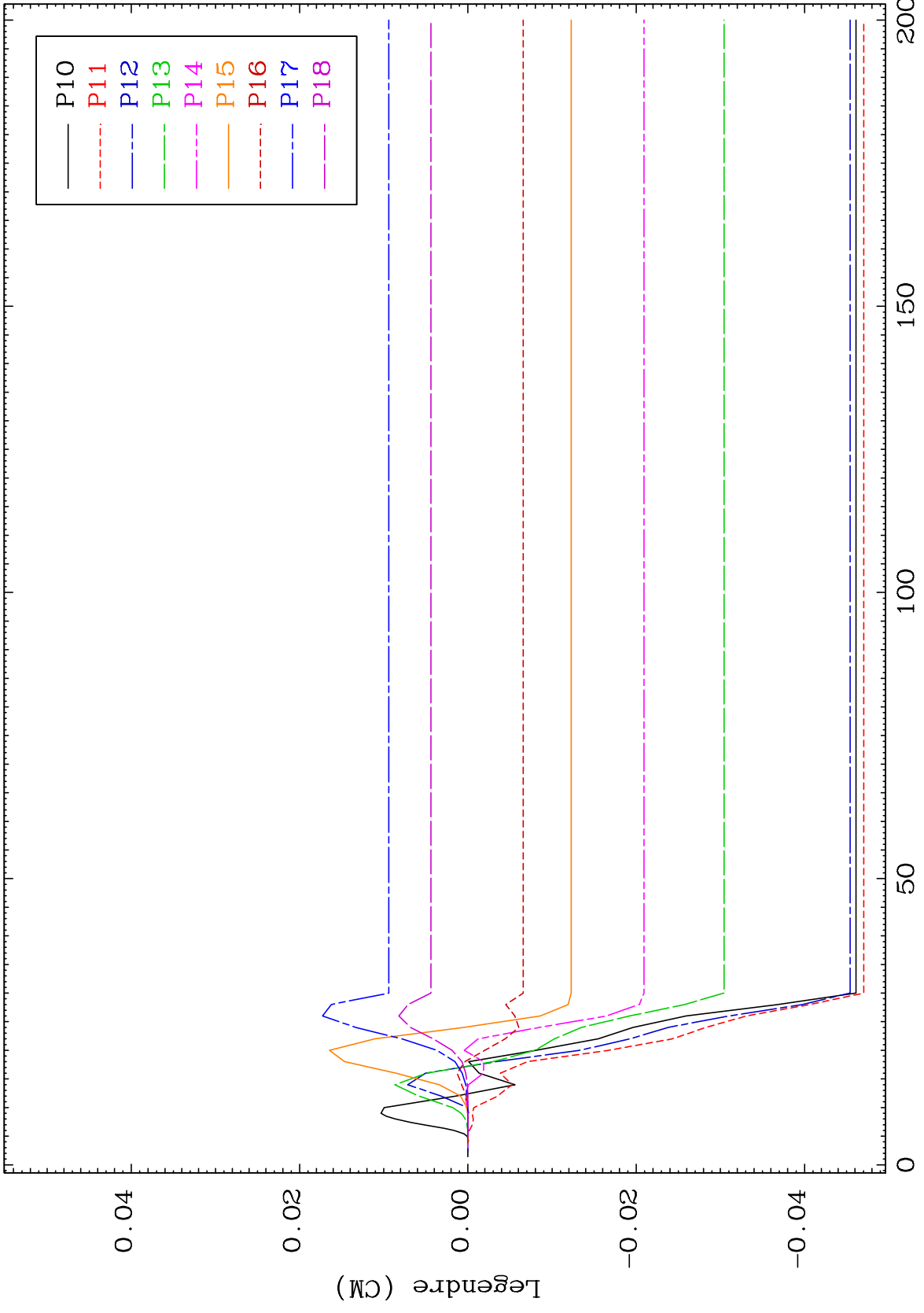


60-Nd-147

Incident Energy (MeV)

Legendre (CM)

MAT 6040 MT= 66 (n,n') Level Legendre Coefficients 60-Nd-147

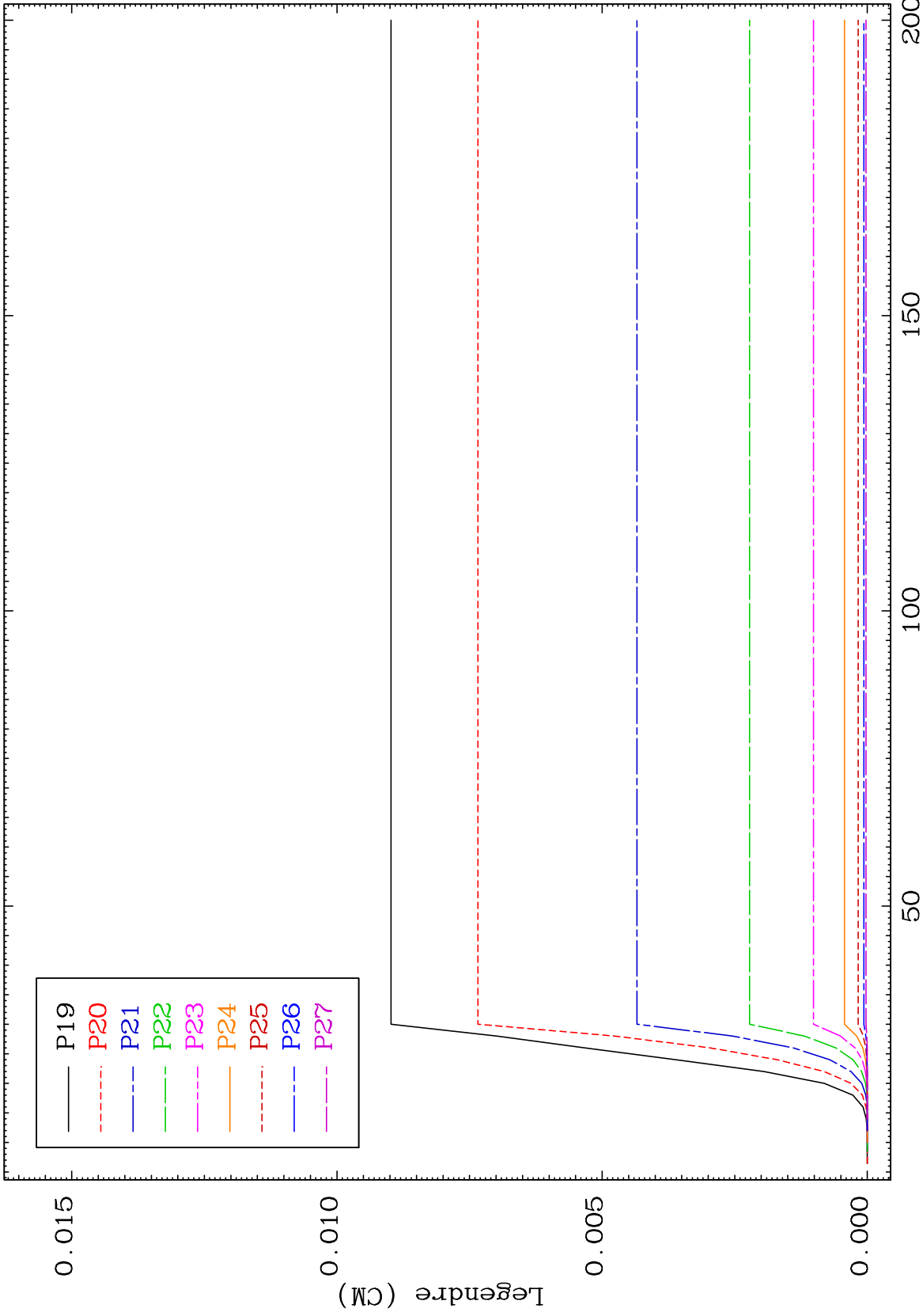


81 60-Nd-147

MAT 6040

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

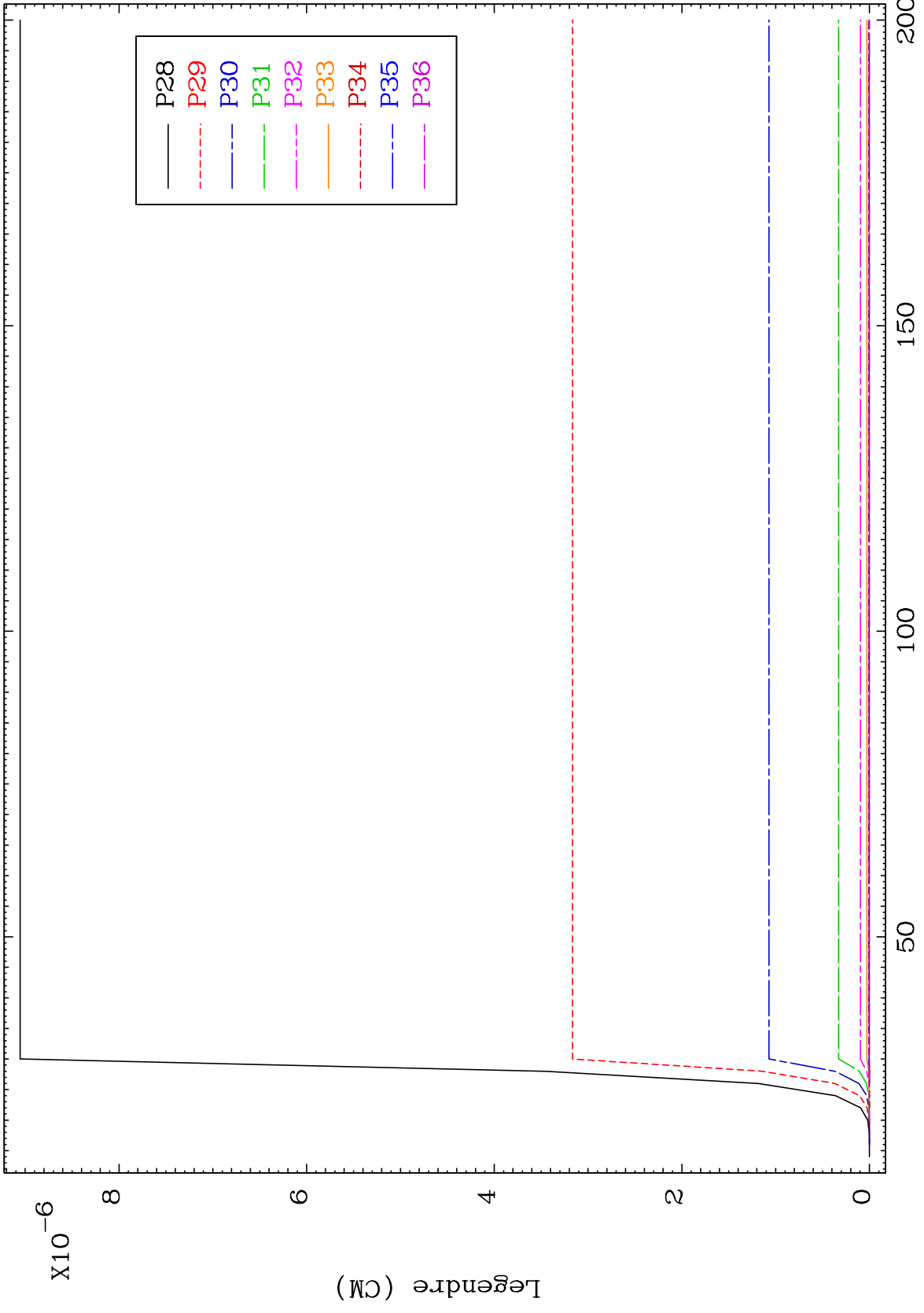
60-Nd-147



82

Incident Energy (MeV)

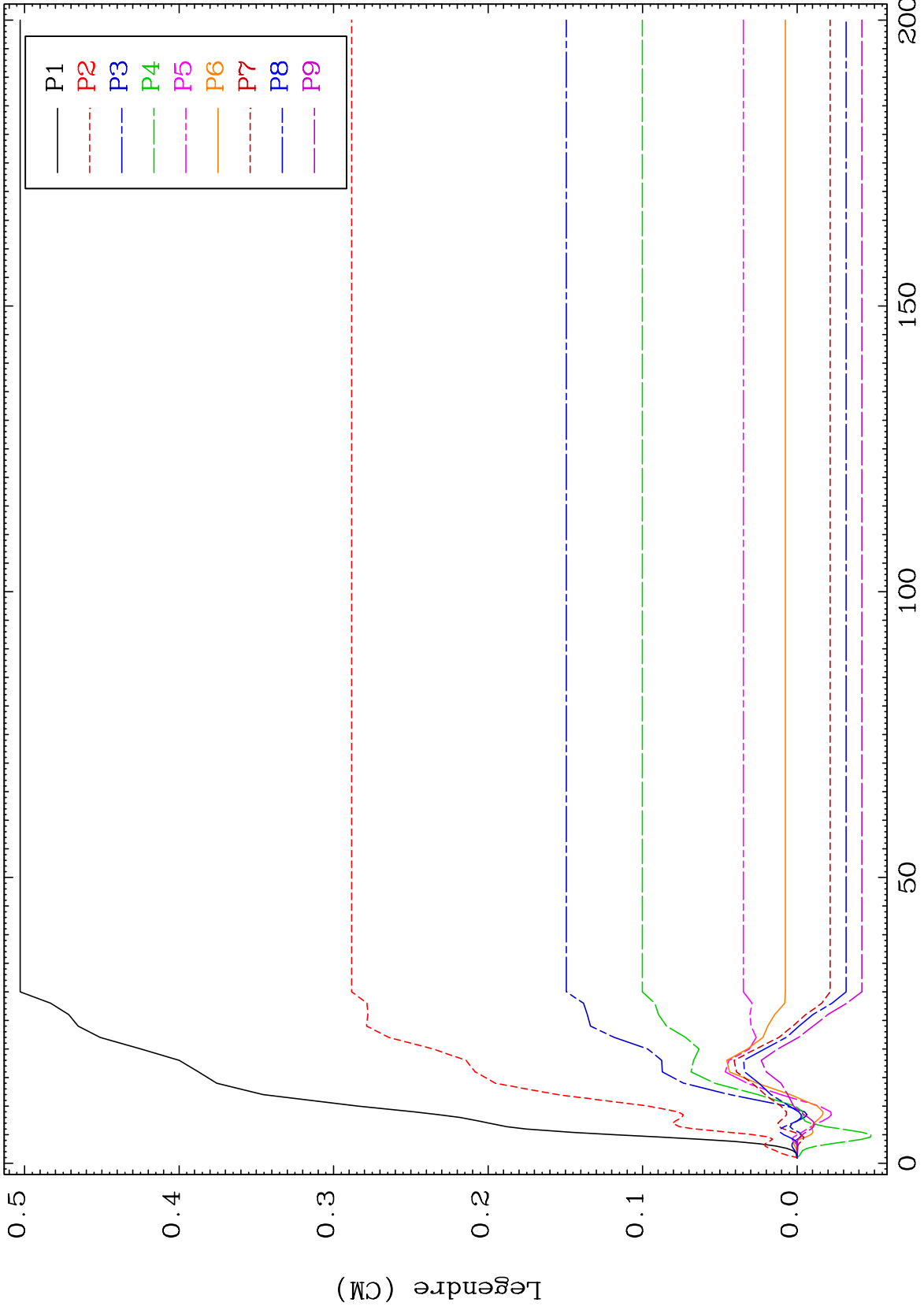
60-Nd-147



MAT 6040

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

60-Nd-147

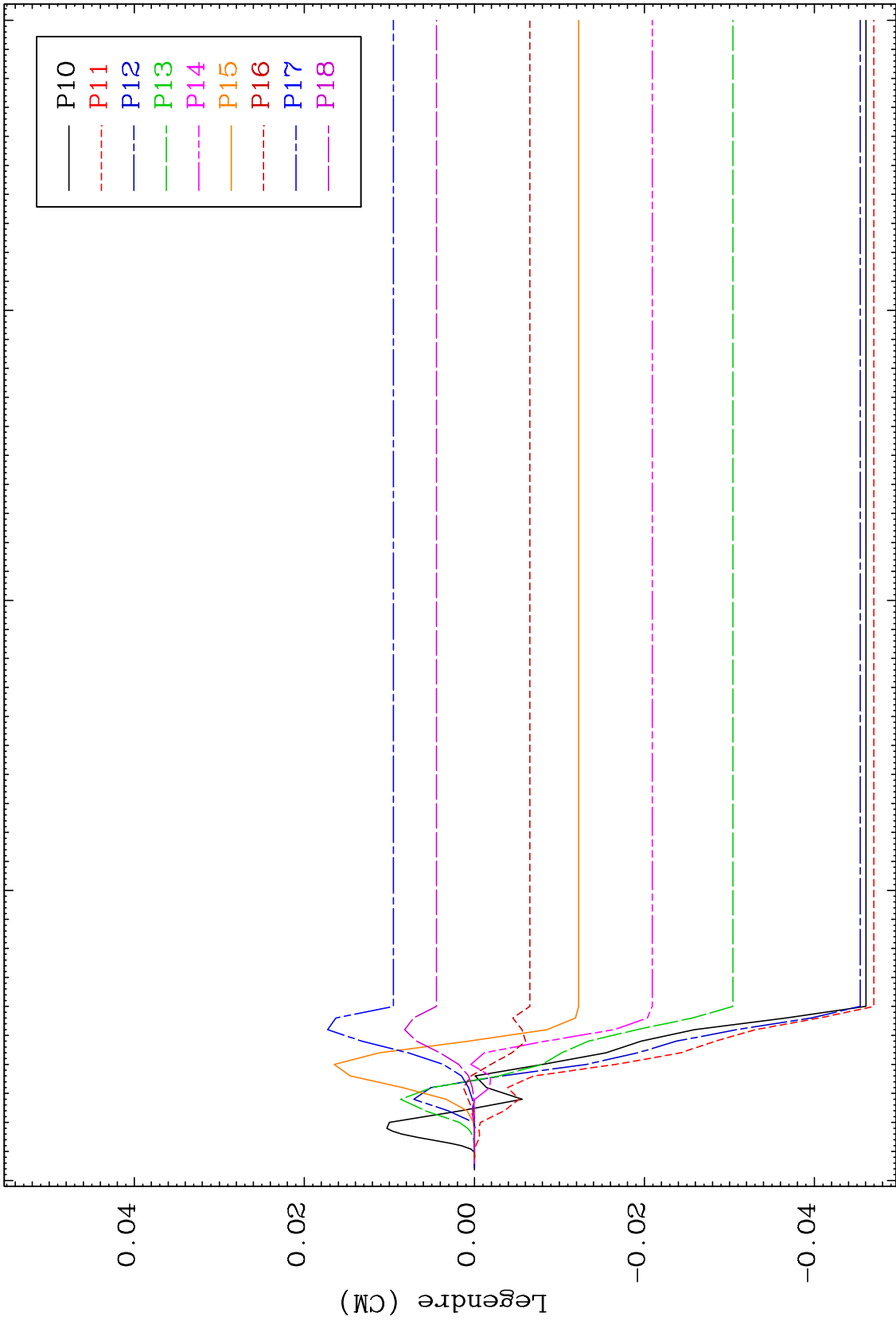


60-Nd-147

Incident Energy (MeV)

84

MAT 6040 MT= 67 (n,n') Level Legendre Coefficients 60-Nd-147

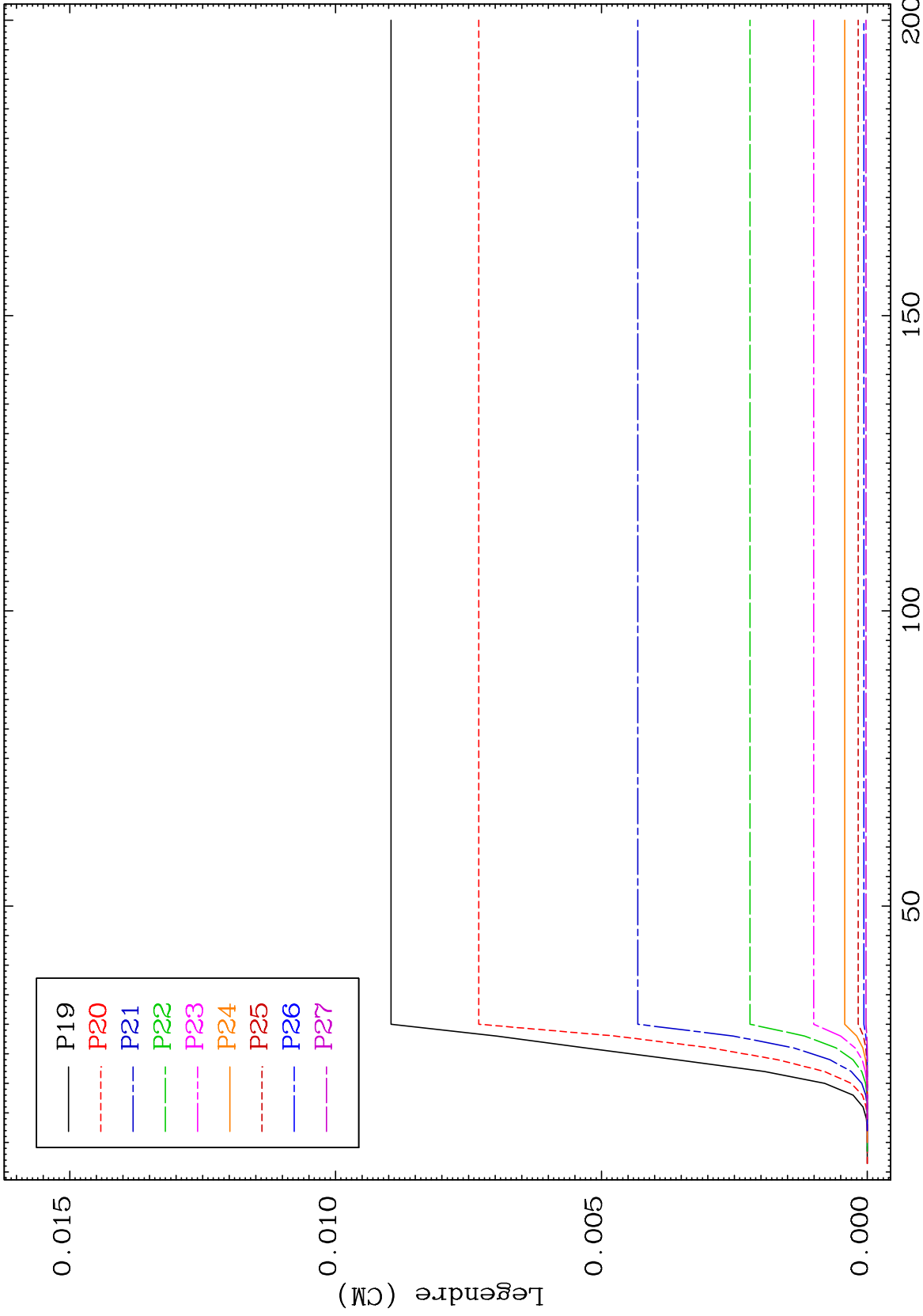


85 Incident Energy (MeV) 60-Nd-147

MAT 6040

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

60-Nd-147



86

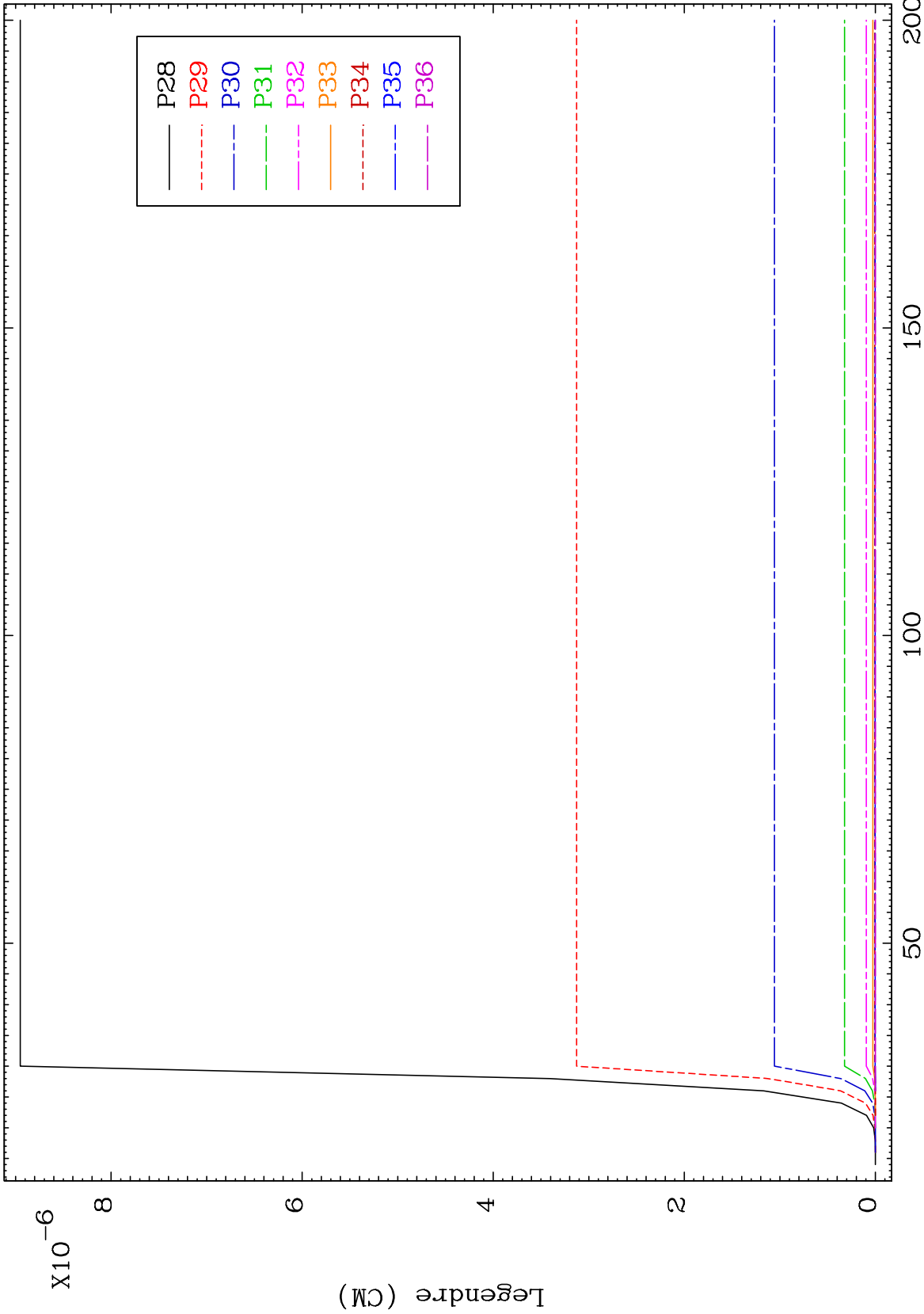
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

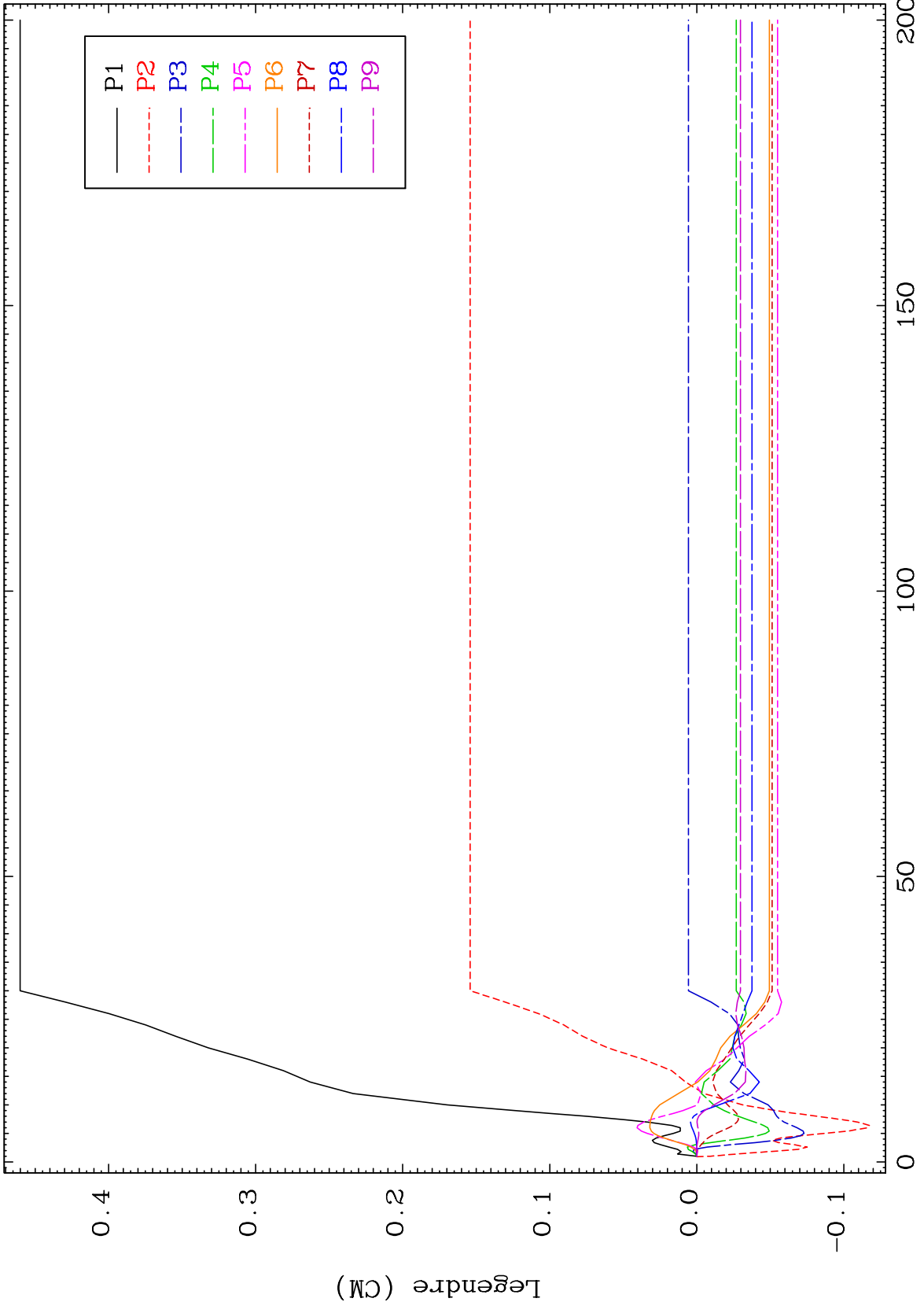
60-Nd-147



87

60-Nd-147

MAT 6040 MT= 68 (n,n') Level Legendre Coefficients 60-Nd-147

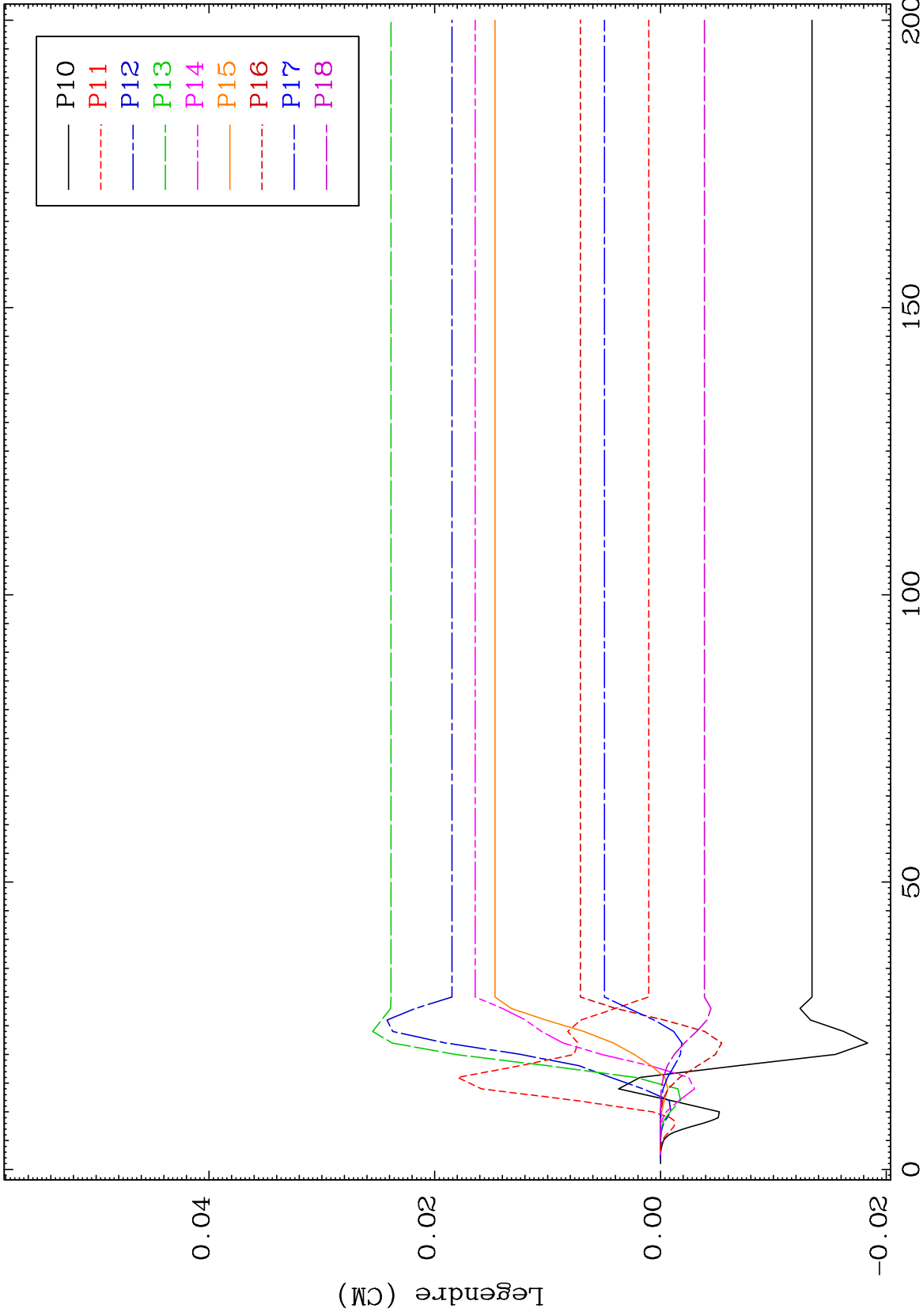


88 Incident Energy (MeV) 60-Nd-147

MAT 6040

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

60-Nd-147



89

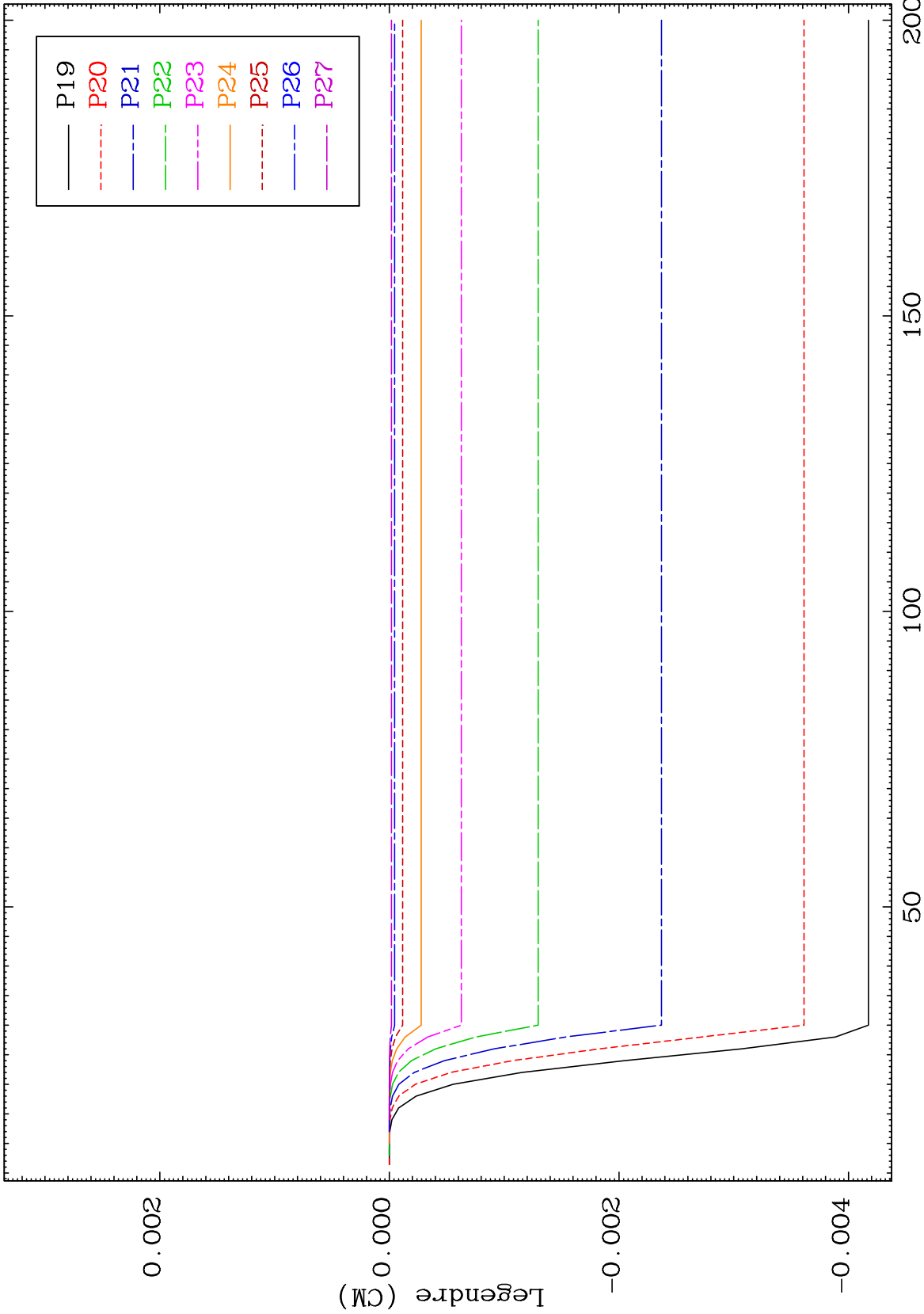
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147



90

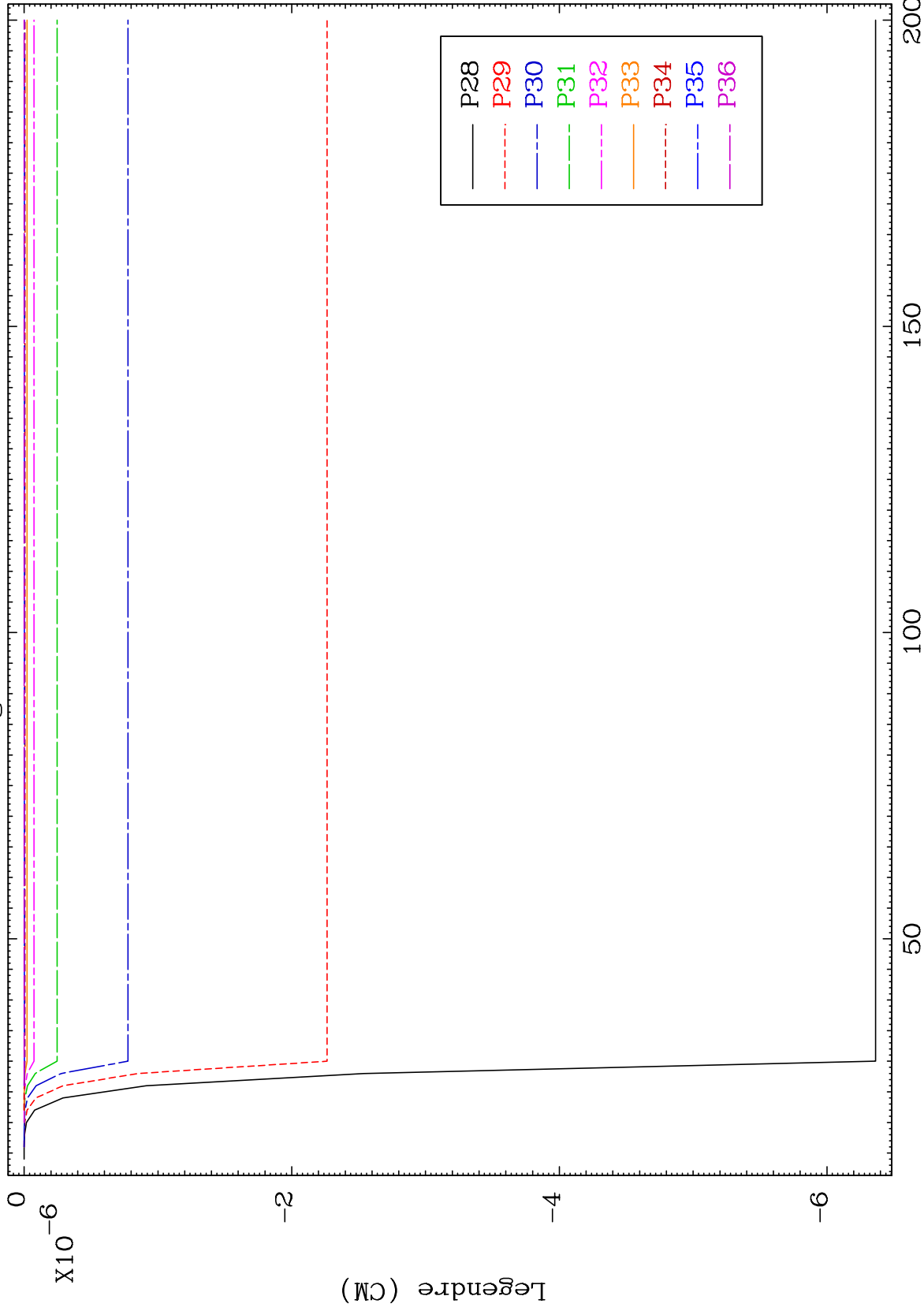
Incident Energy (MeV)

60-Nd-147

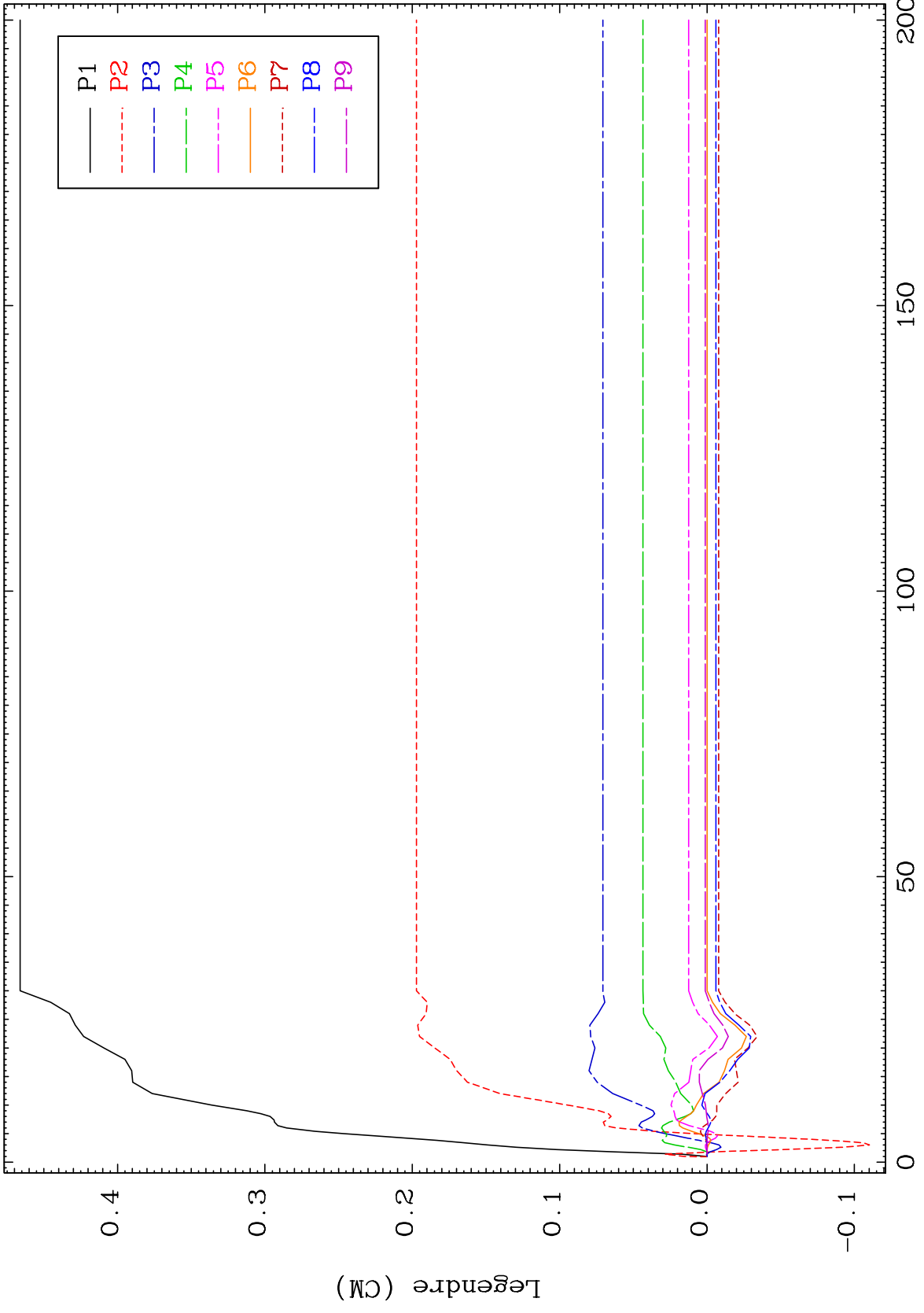
MAT 6040

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

60-Nd-147

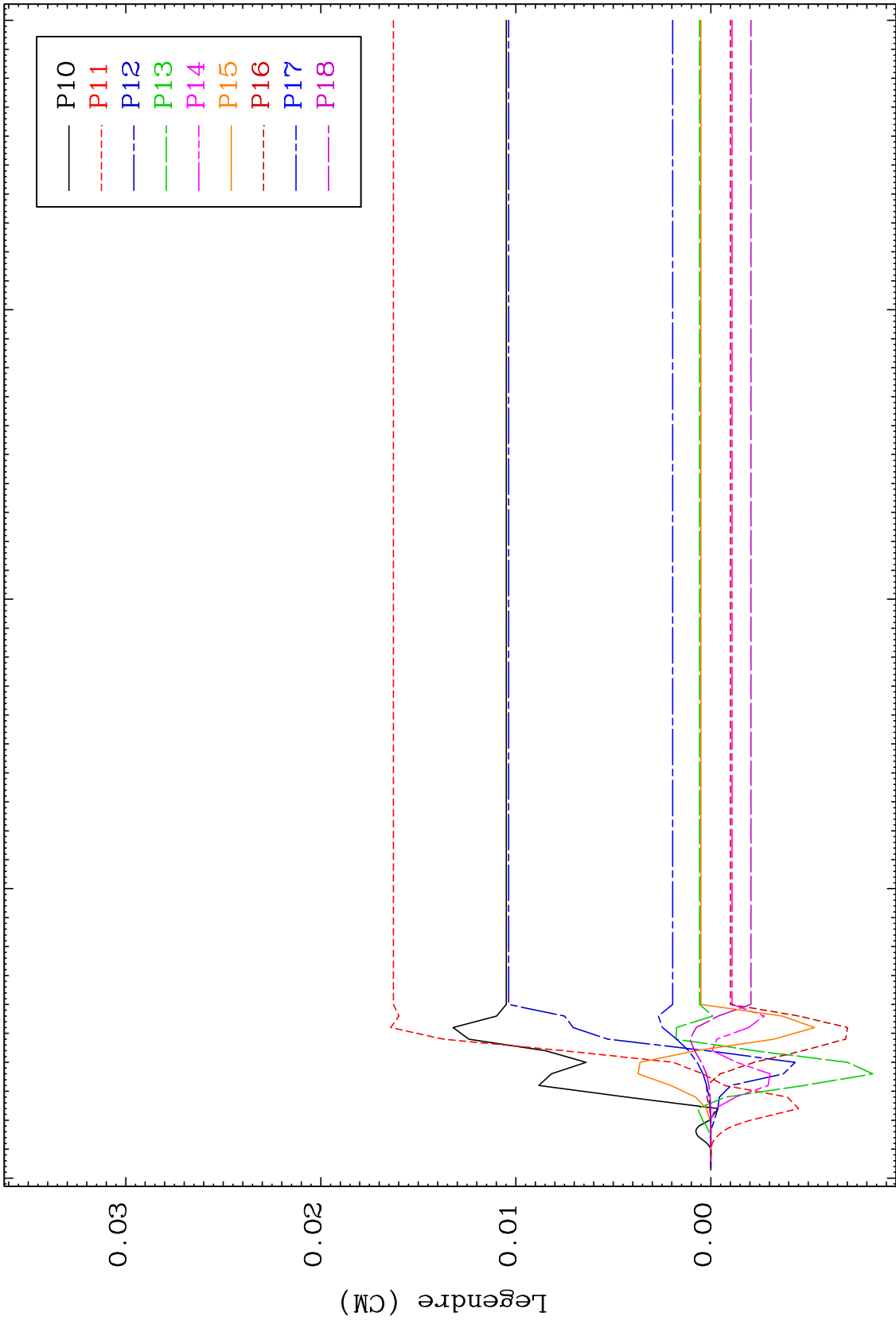


MAT 6040 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-147



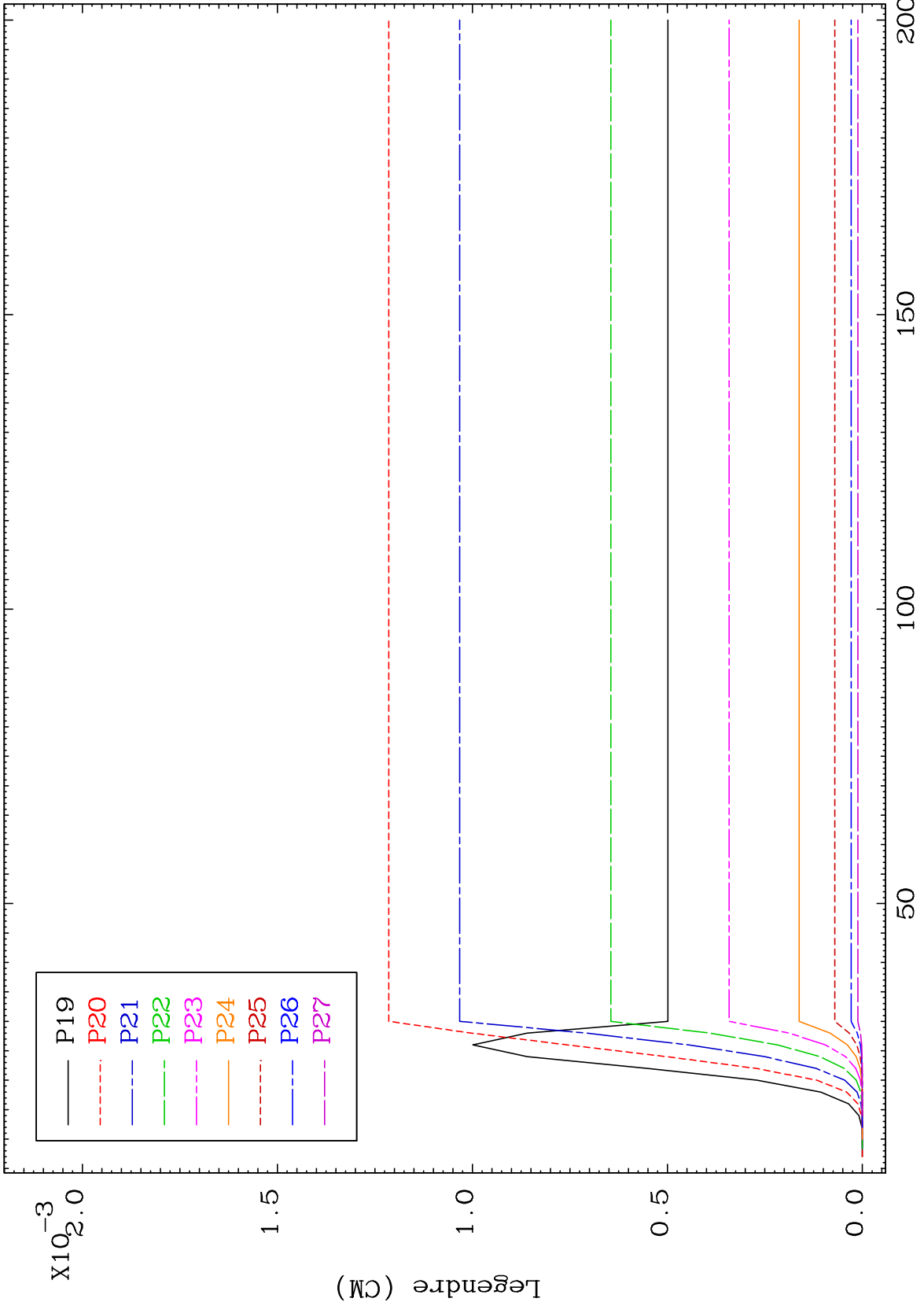
92 Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-147



93 60-Nd-147

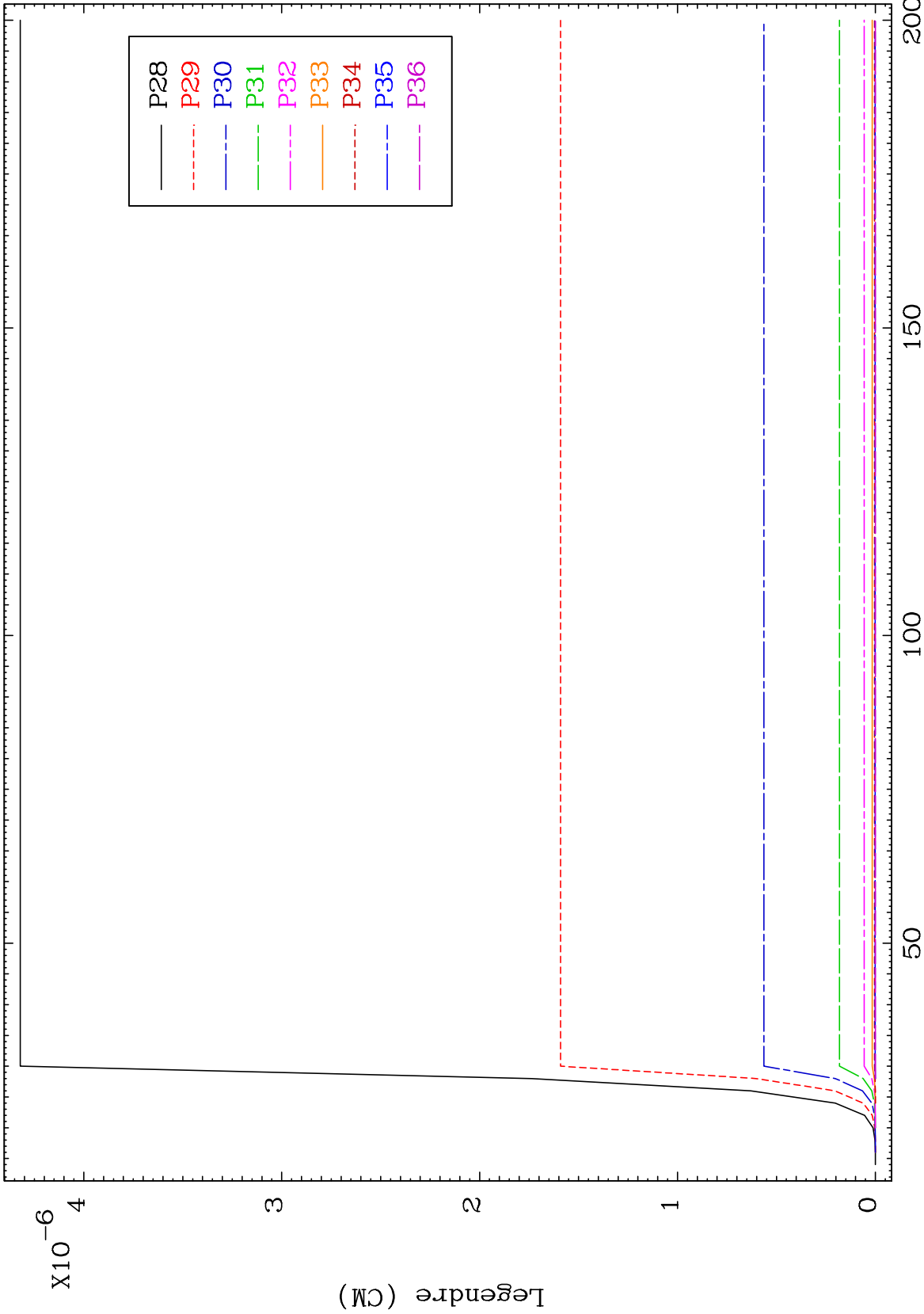
MAT 6040 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-147



MAT 6040

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

60-Nd-147

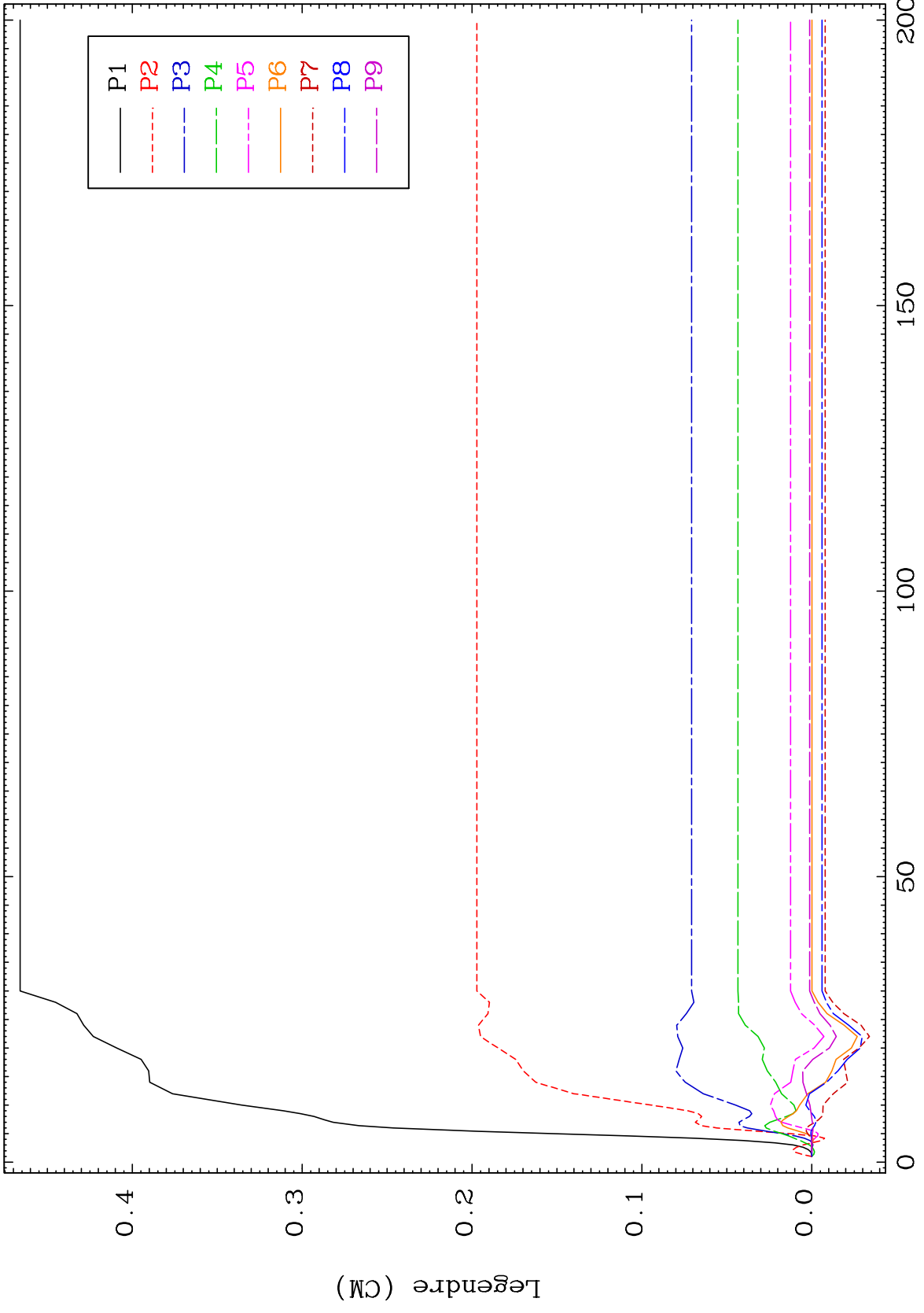


95

Incident Energy (MeV)

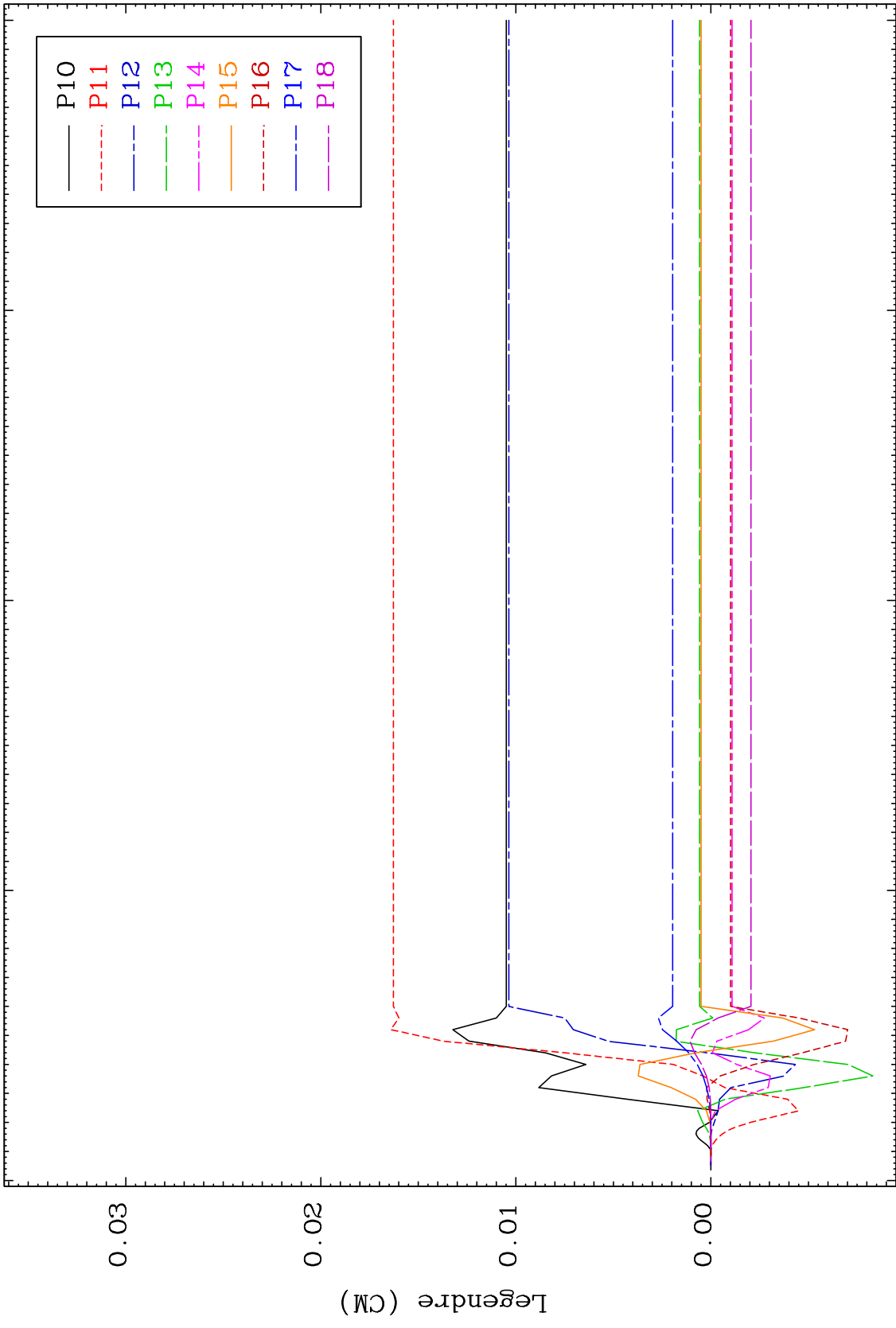
60-Nd-147

MAT 6040 MT= 70 (n,n') Level Legendre Coefficients 60-Nd-147



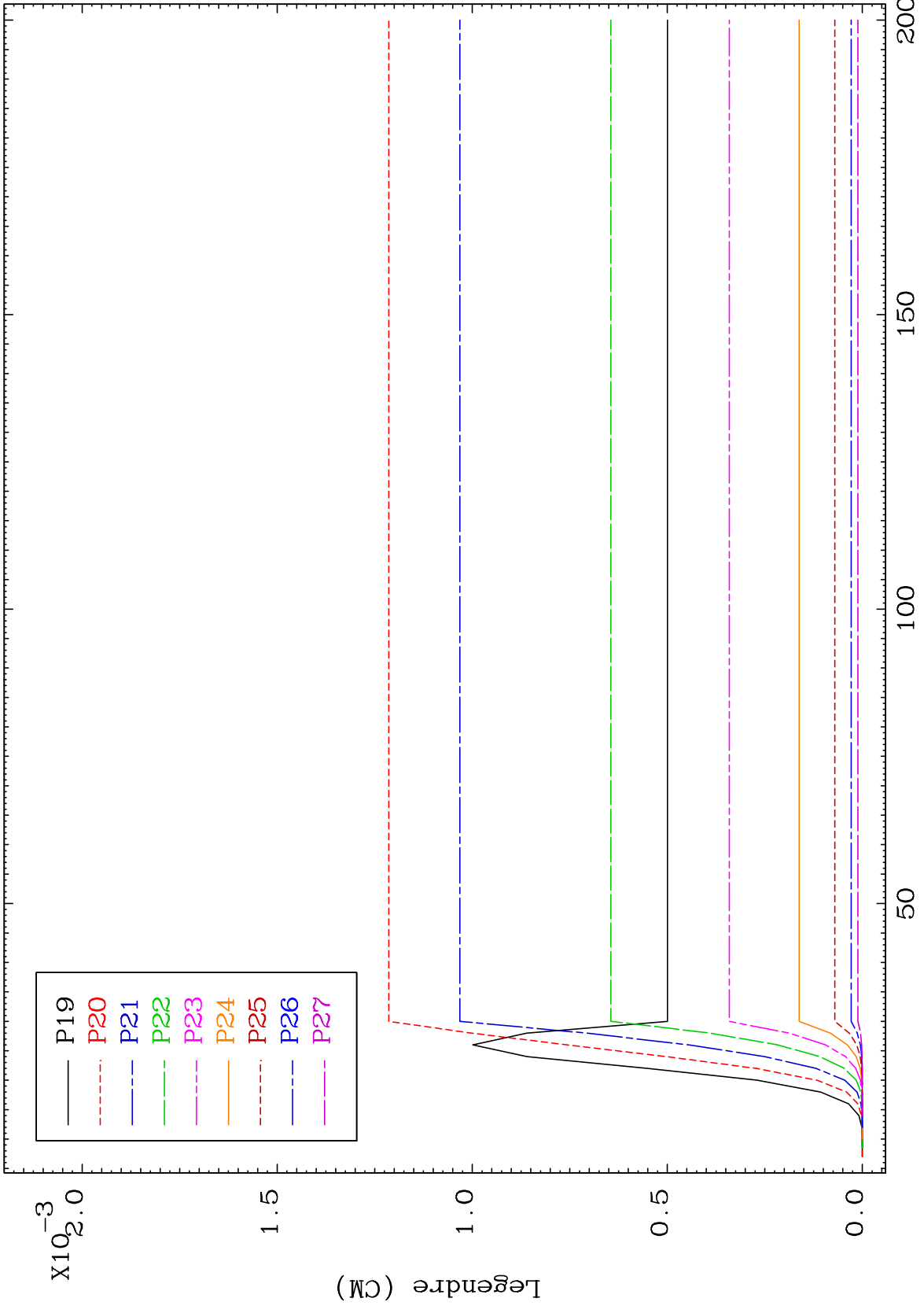
96 60-Nd-147

MAT 6040 MT= 70 (n,n') Level Legendre Coefficients 60-Nd-147



97 60-Nd-147

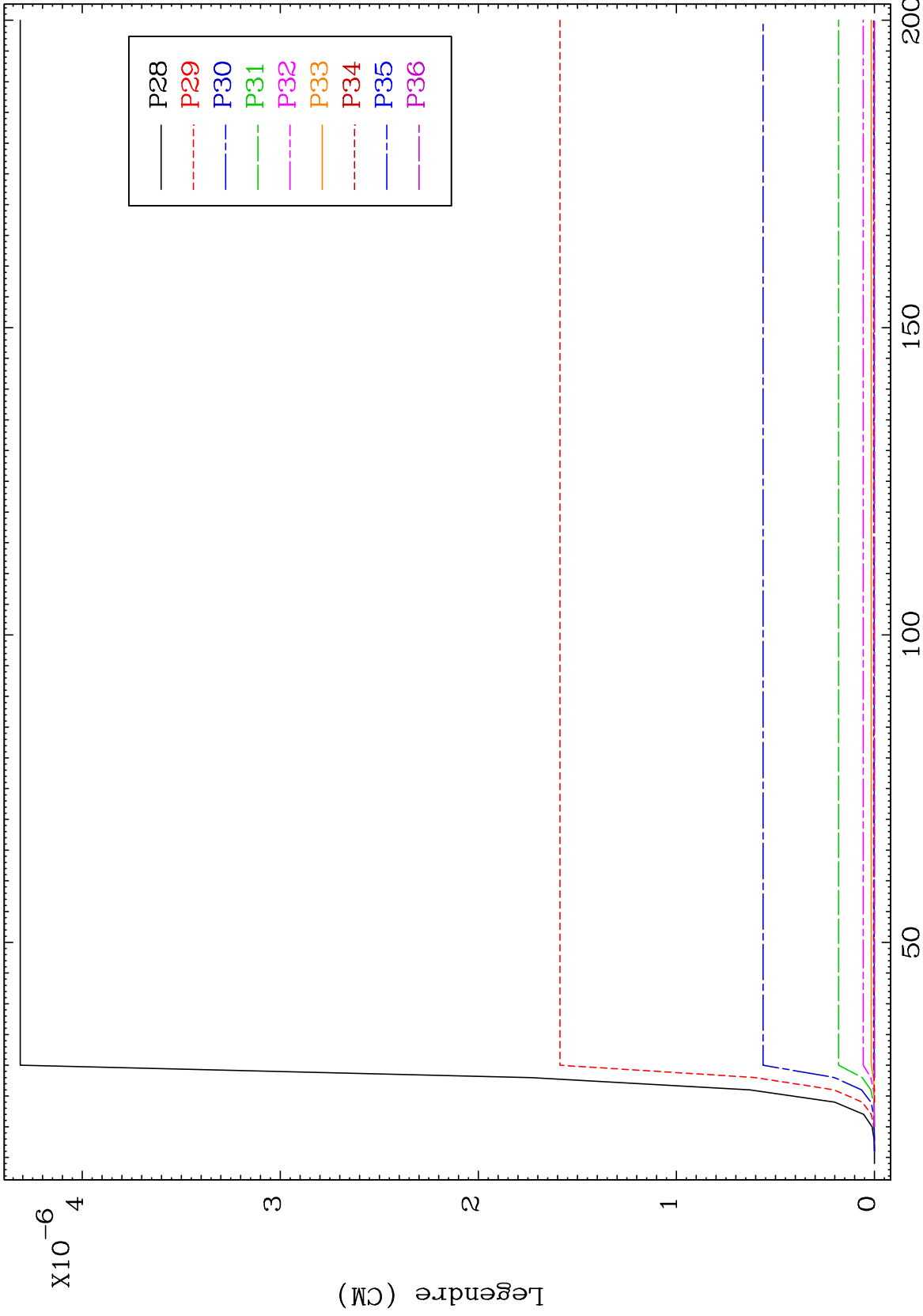
MAT 6040 MT= 70 (n,n') Level Legendre Coefficients 60-Nd-147



MAT 6040

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

60-Nd-147

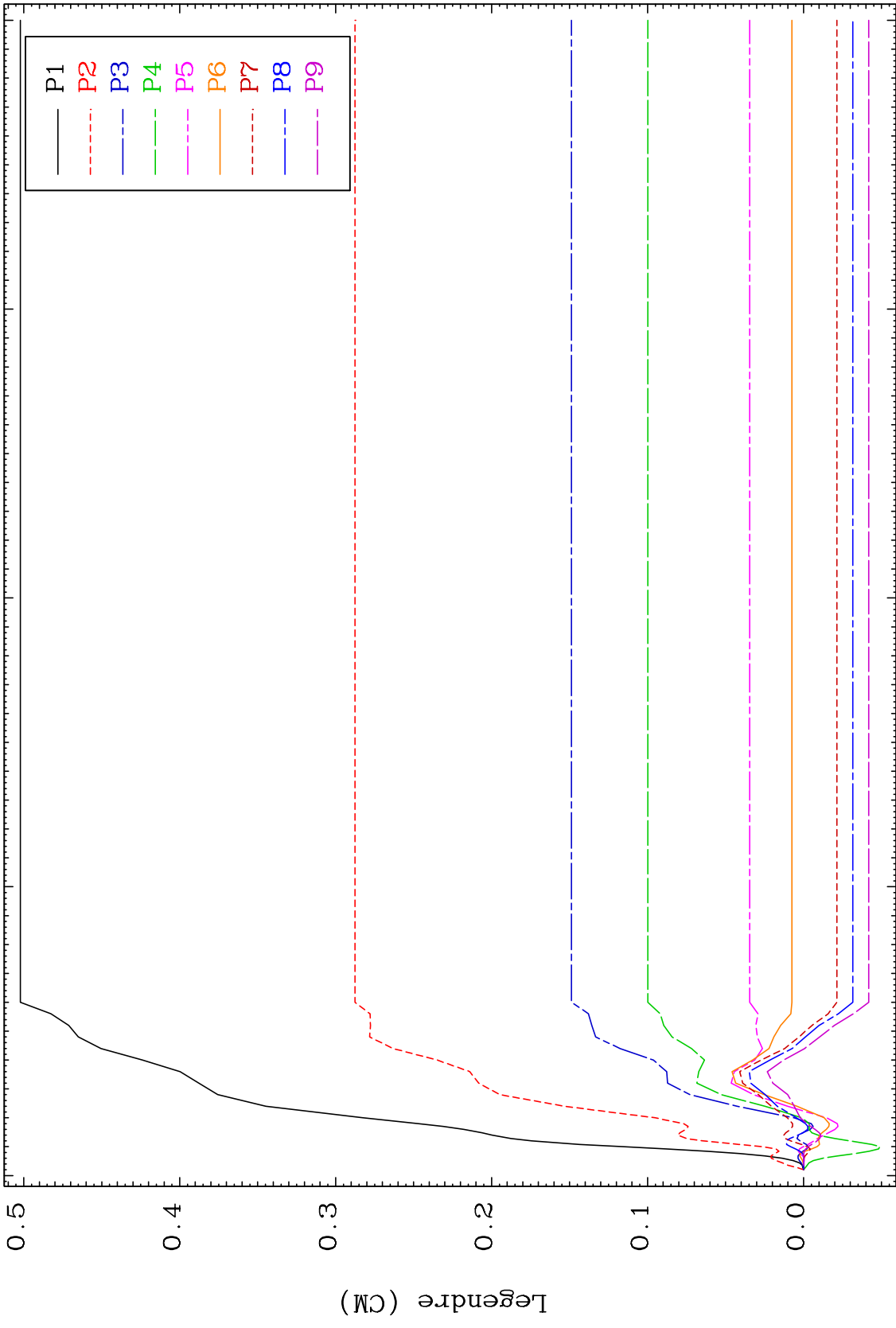


60-Nd-147

Incident Energy (MeV)

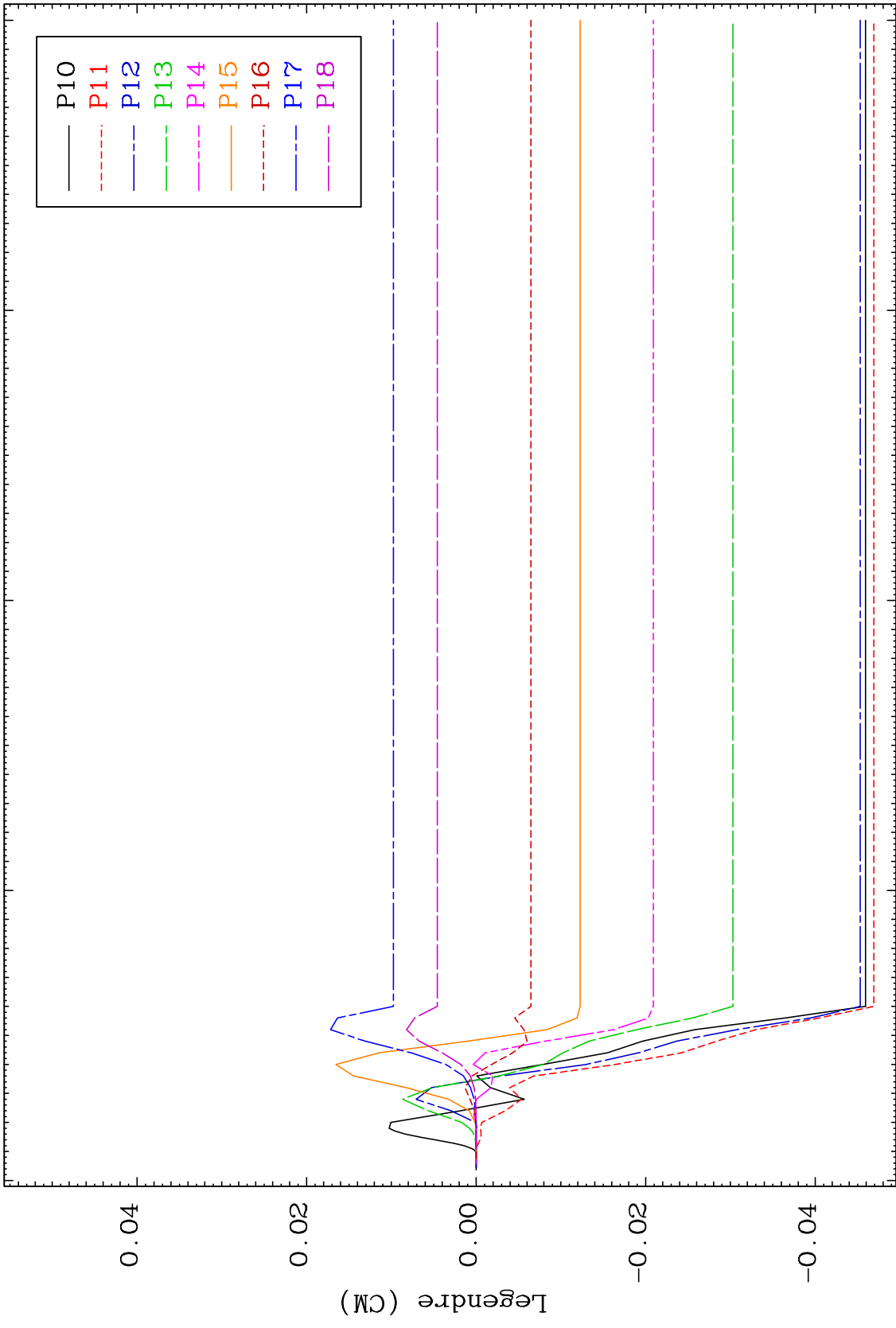
99

MAT 6040 MT= 71 (n,n') Level Legendre Coefficients 60-Nd-147



Legendre (CM) Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 71 (n,n') Level Legendre Coefficients 60-Nd-147

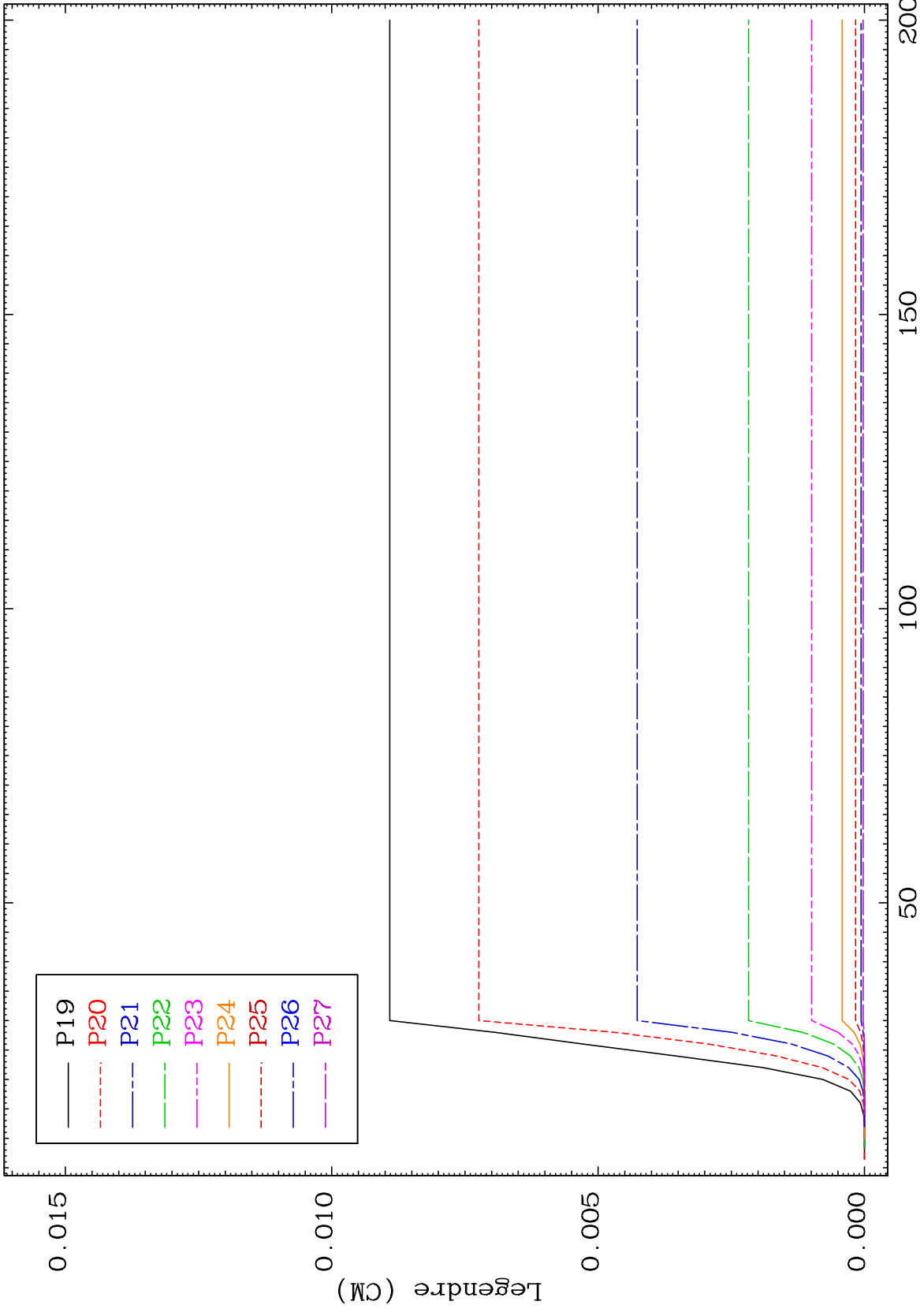


101 60-Nd-147

MAT 6040

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

60-Nd-147



102

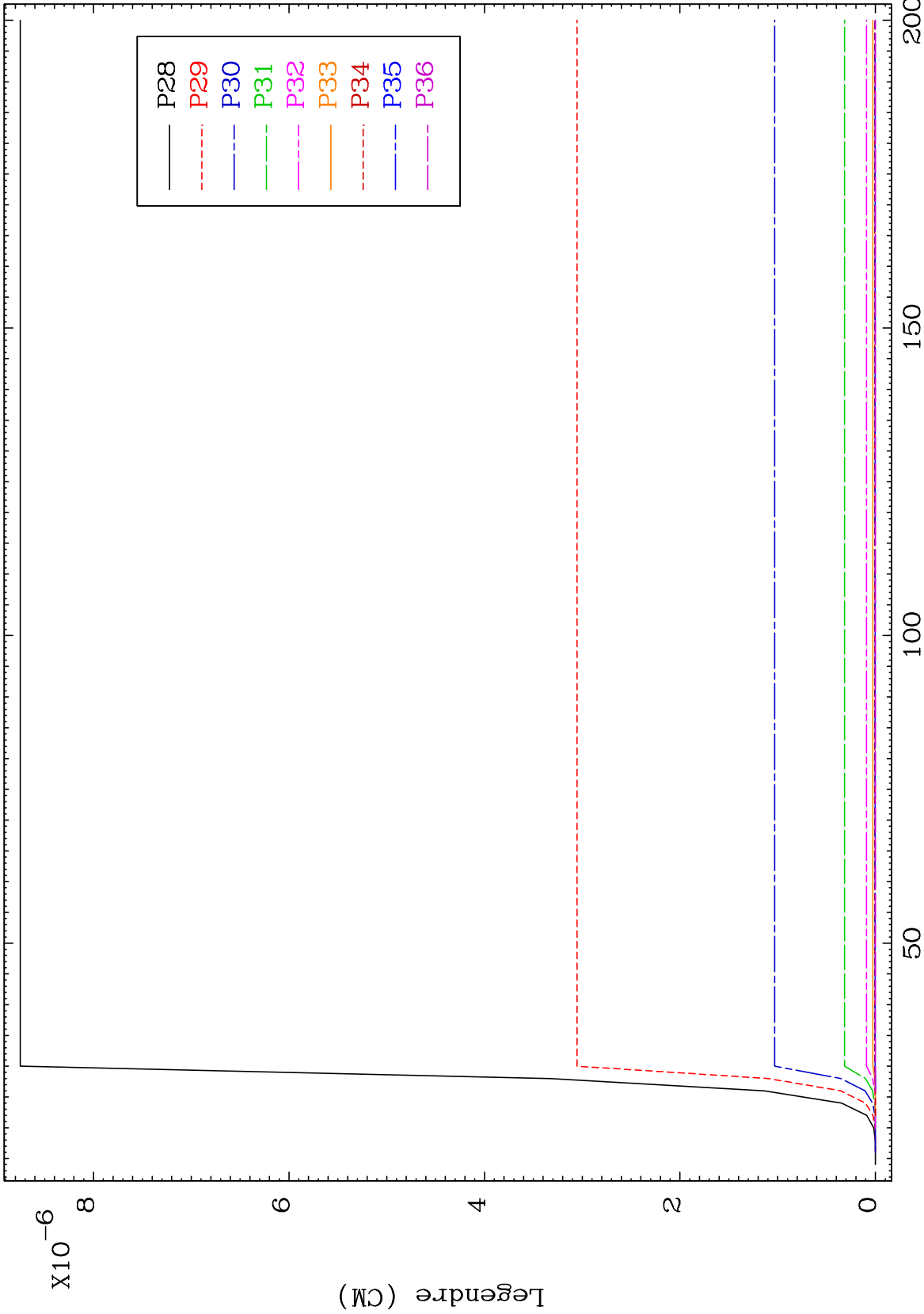
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147



103

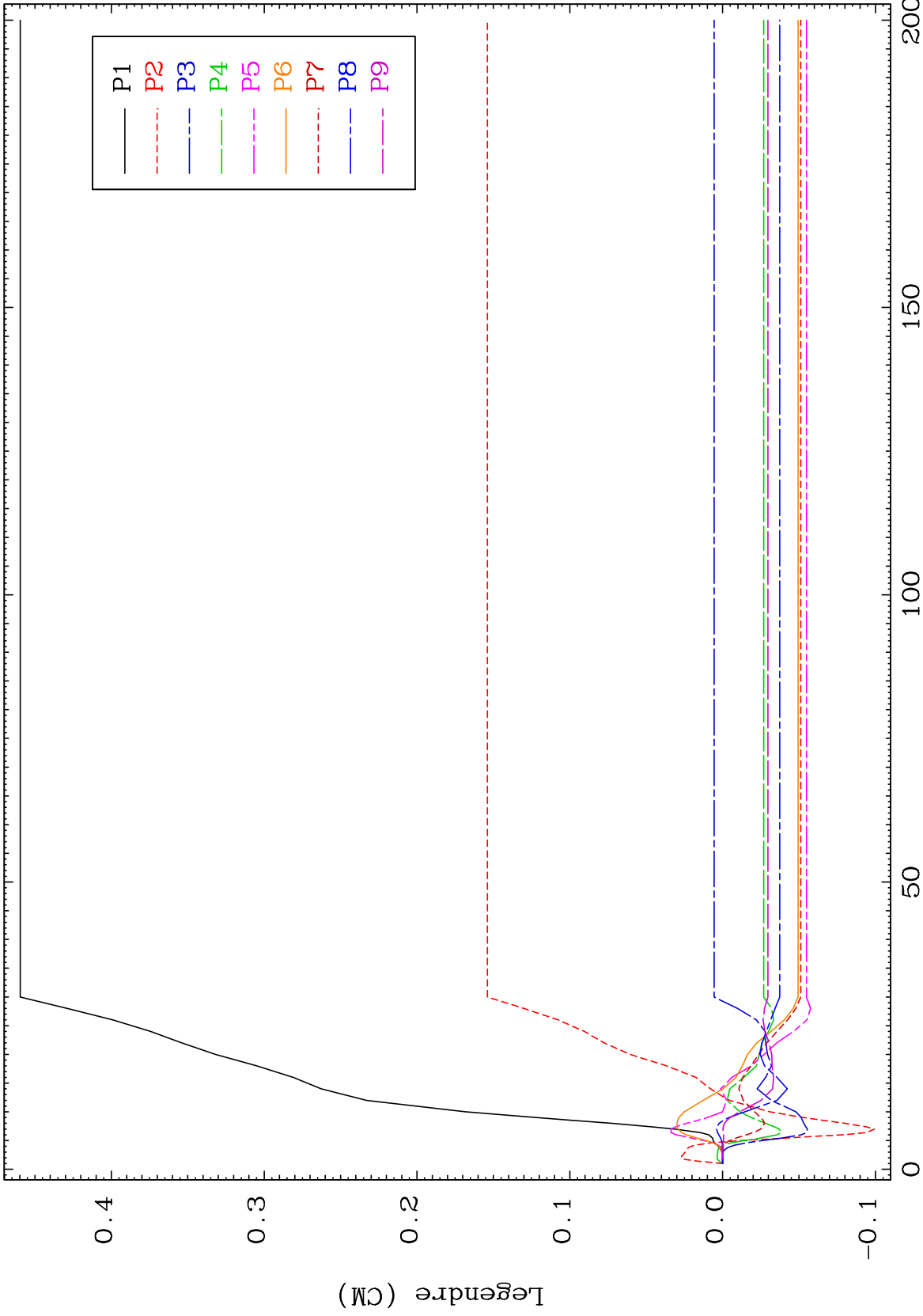
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

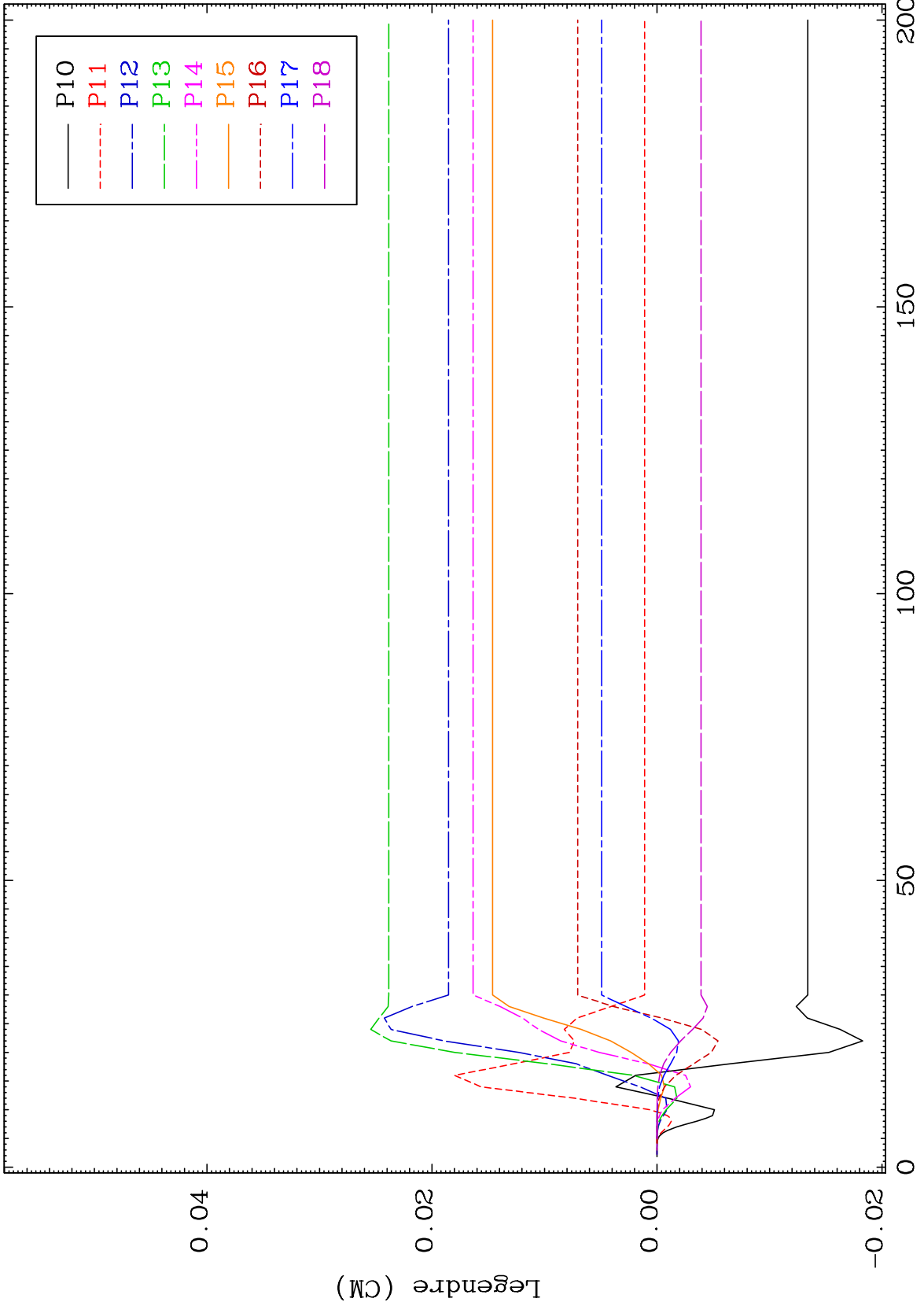


104

Incident Energy (MeV)

60-Nd-147

MAT 6040 MT= 72 (n,n') Level Legendre Coefficients 60-Nd-147

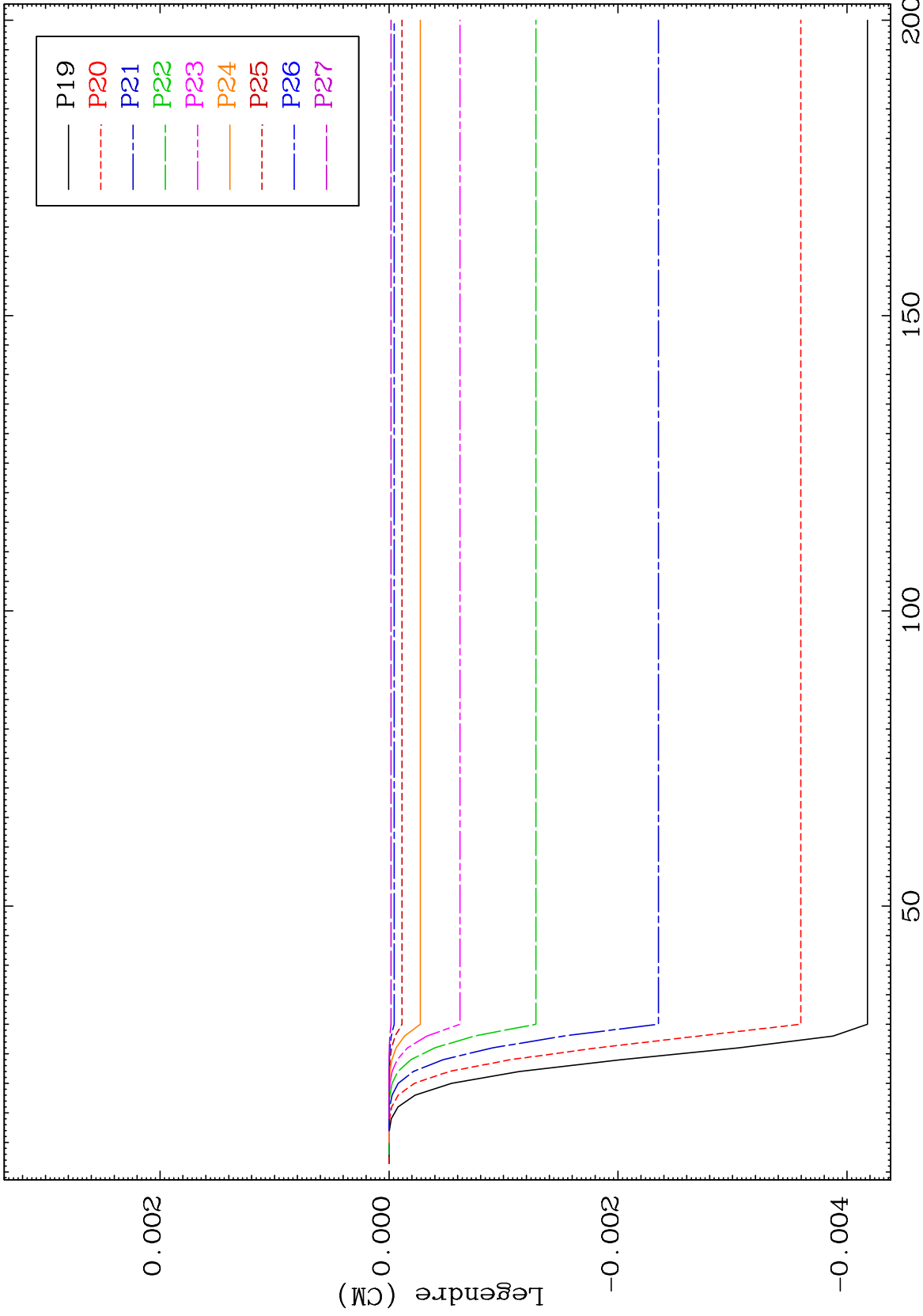


105 Incident Energy (MeV) 60-Nd-147

MAT 6040

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

60-Nd-147



106

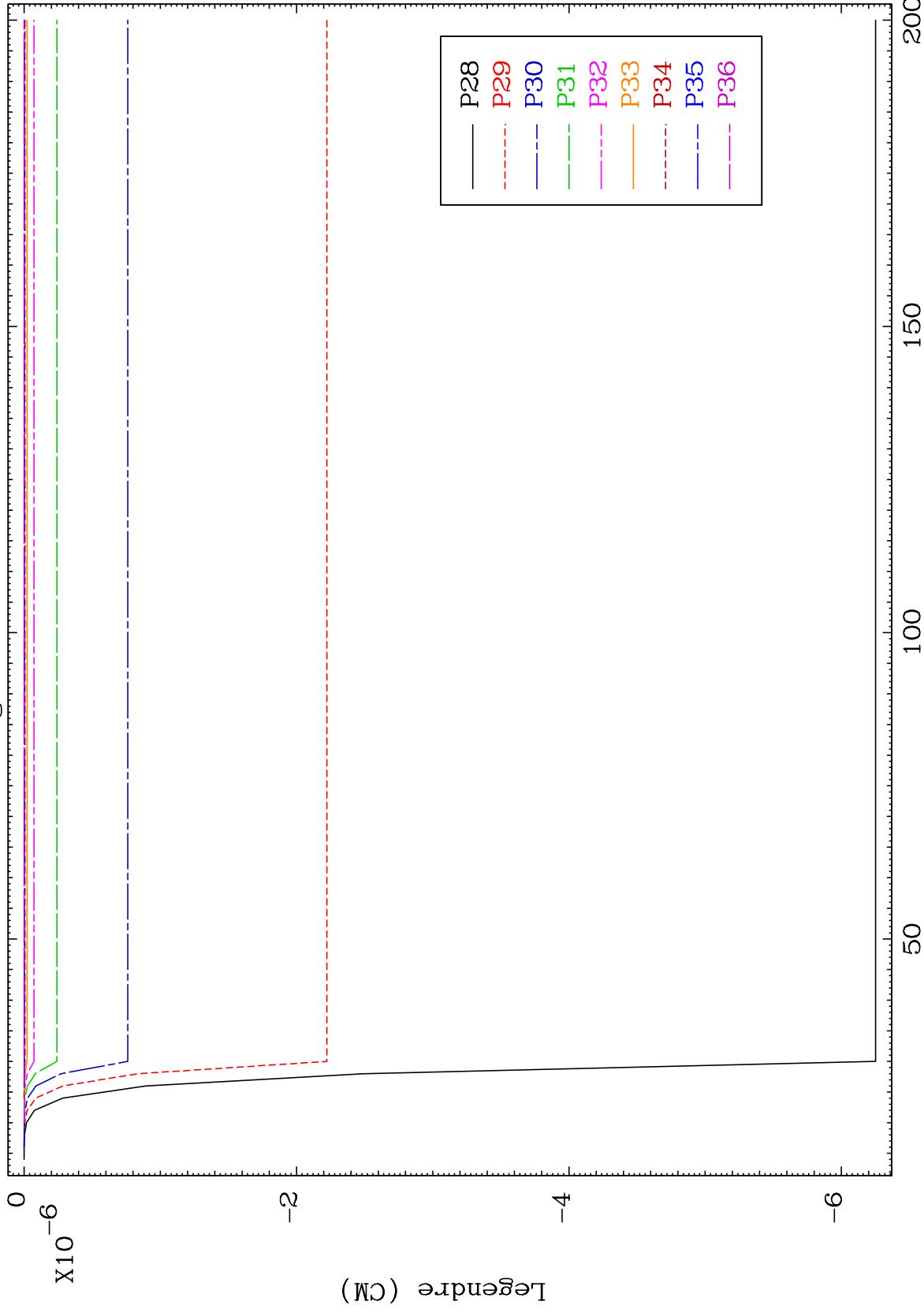
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

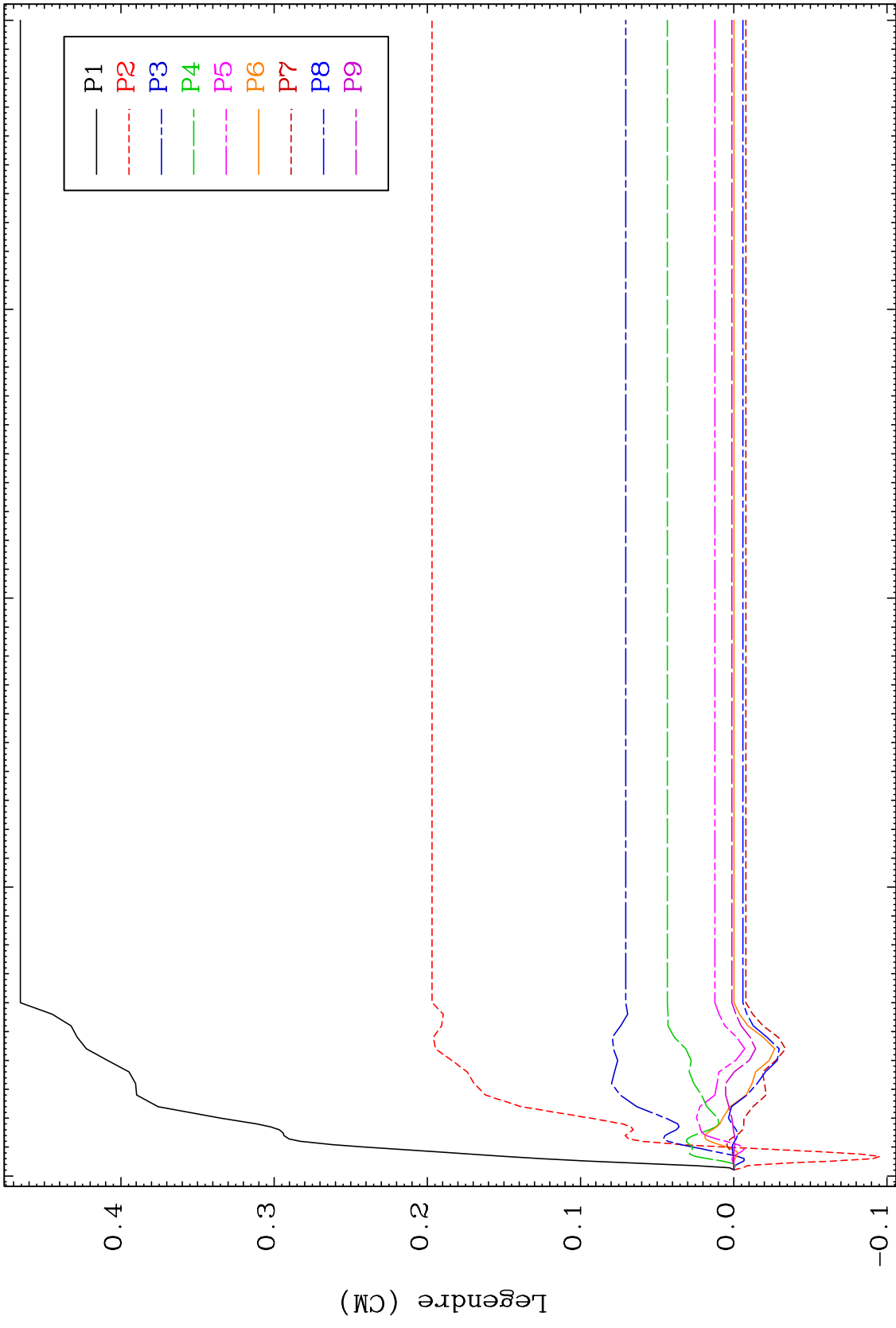


60-Nd-147

Incident Energy (MeV)

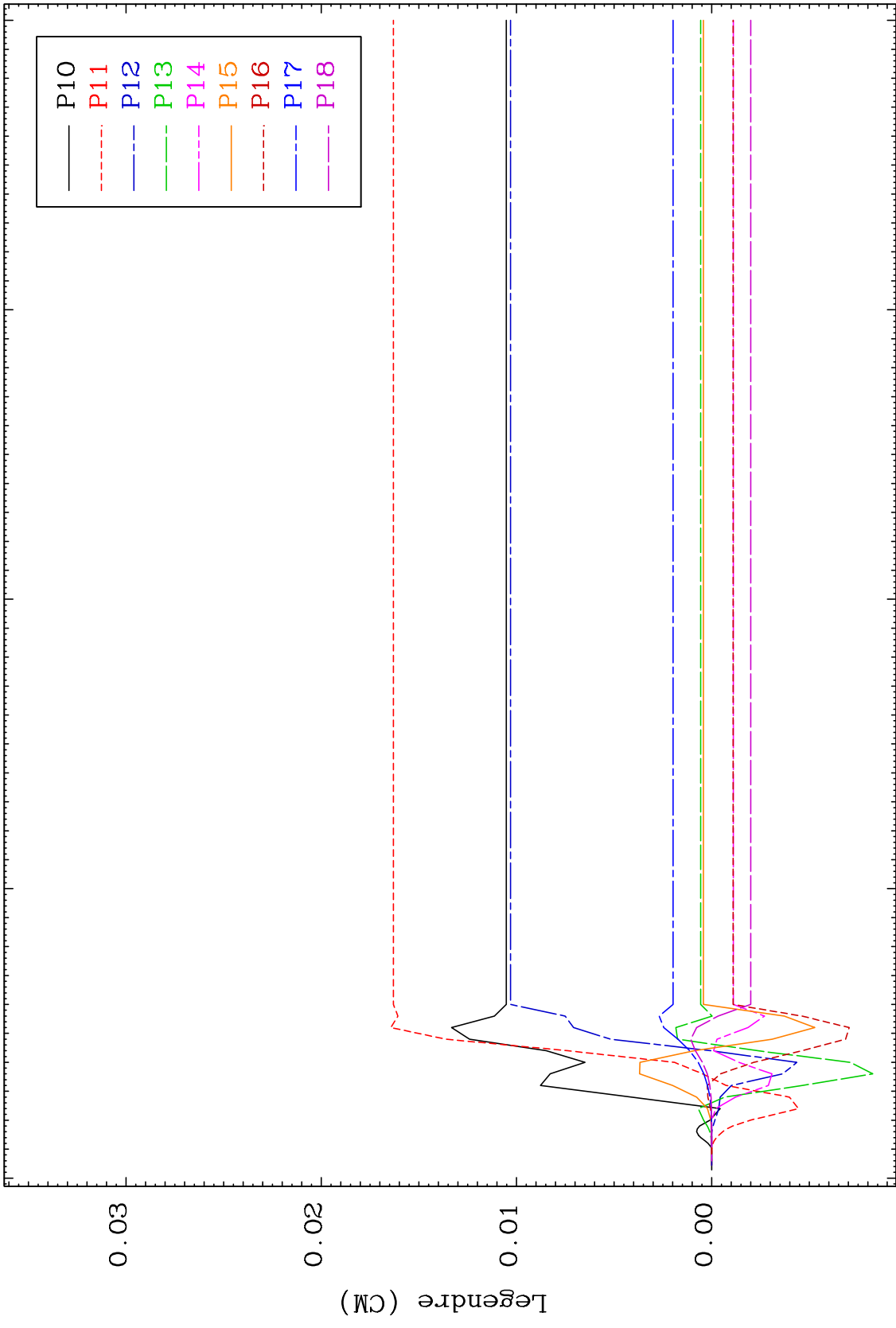
107

MAT 6040 MT= 73 (n,n') Level Legendre Coefficients 60-Nd-147



108 Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 73 (n,n') Level Legendre Coefficients 60-Nd-147

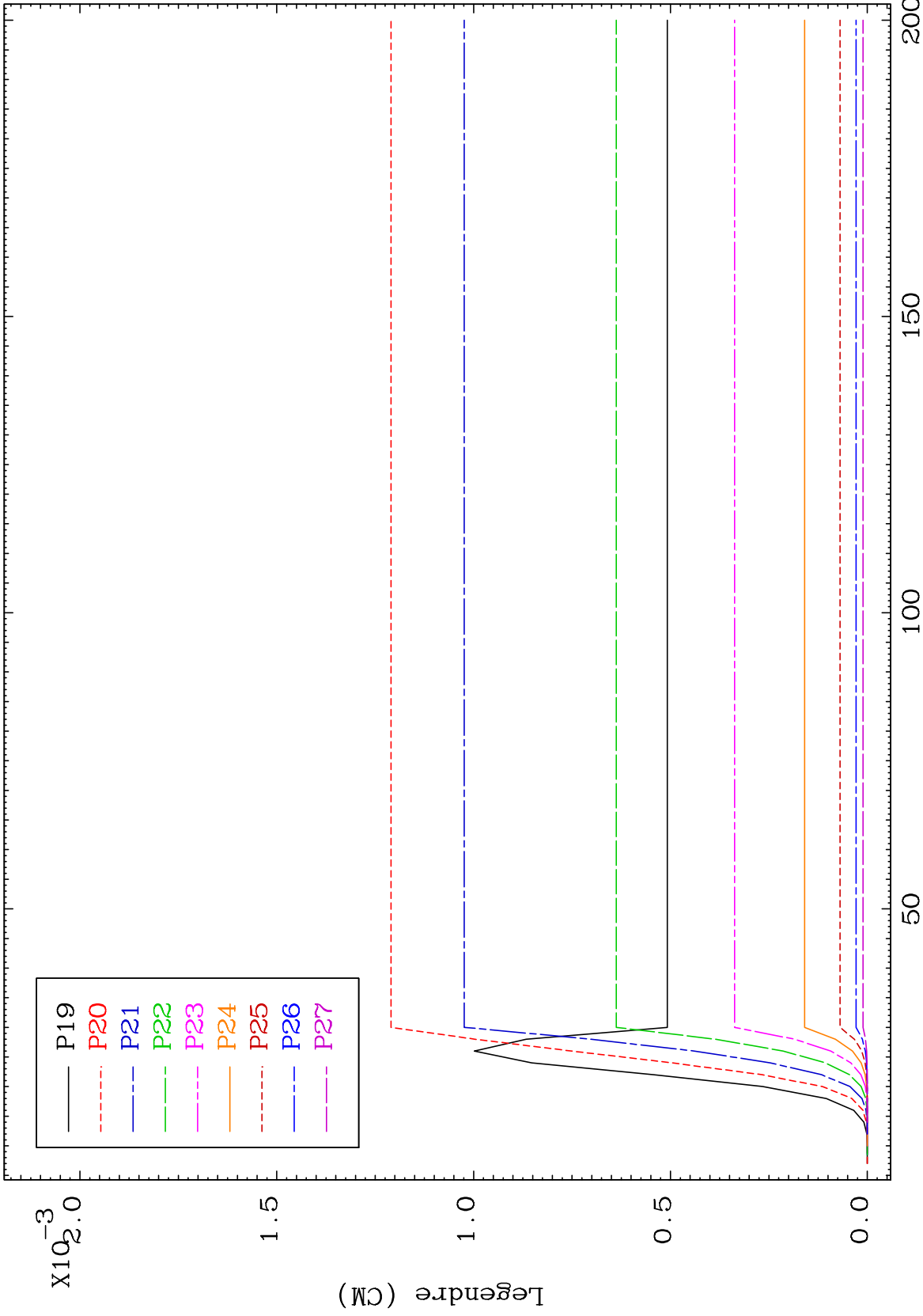


109 60-Nd-147

MAT 6040

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

60-Nd-147



110

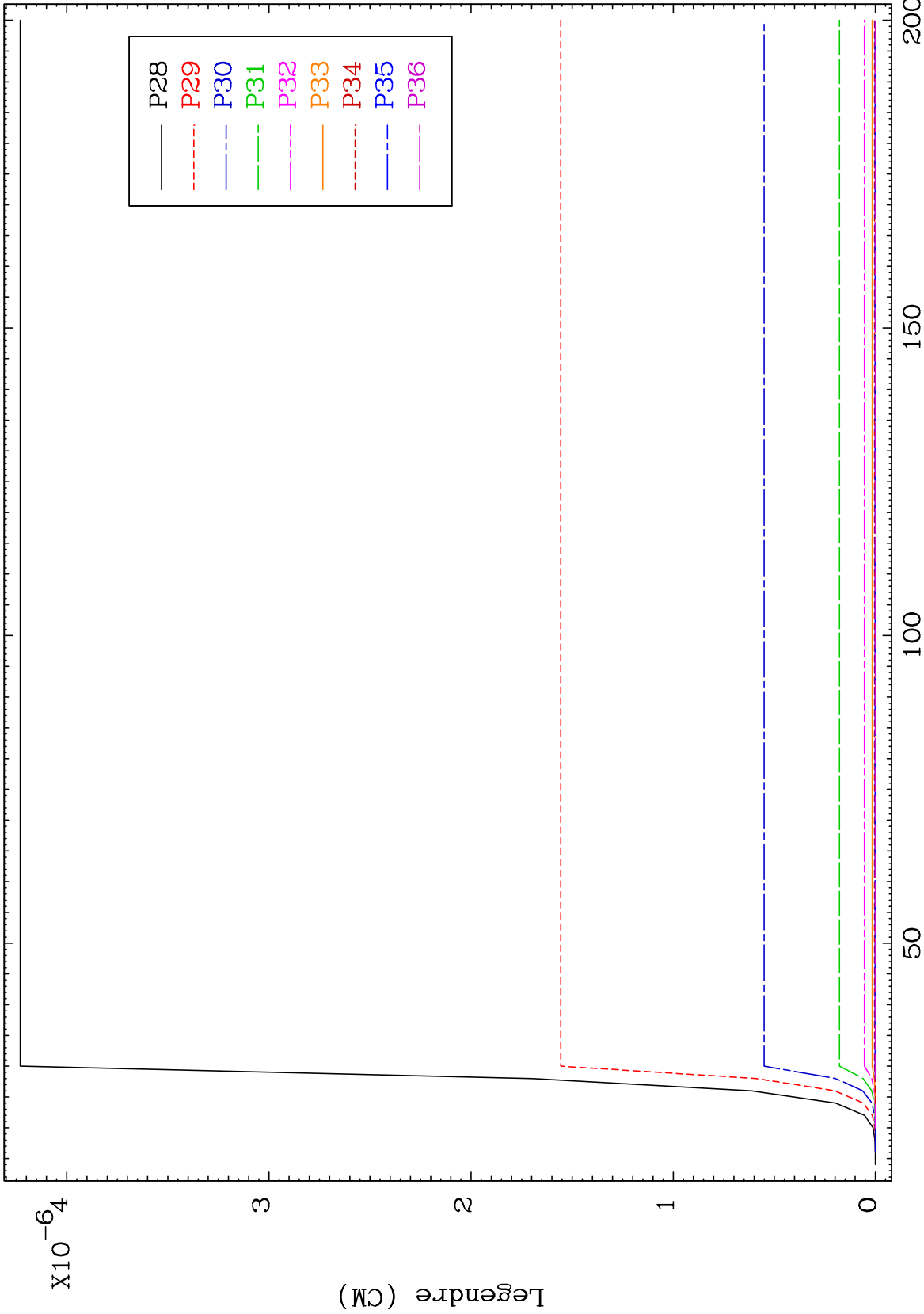
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

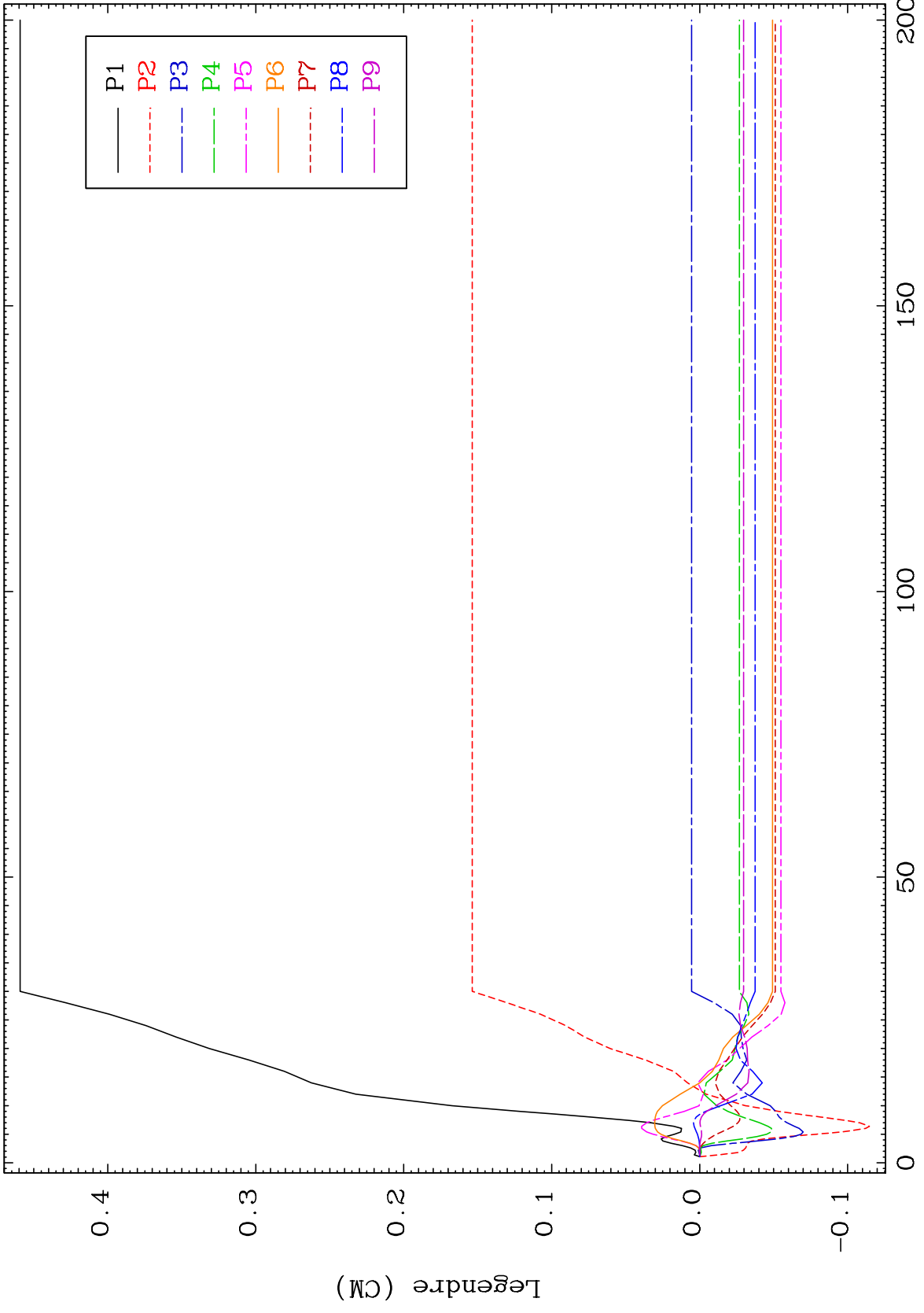


111

Incident Energy (MeV)

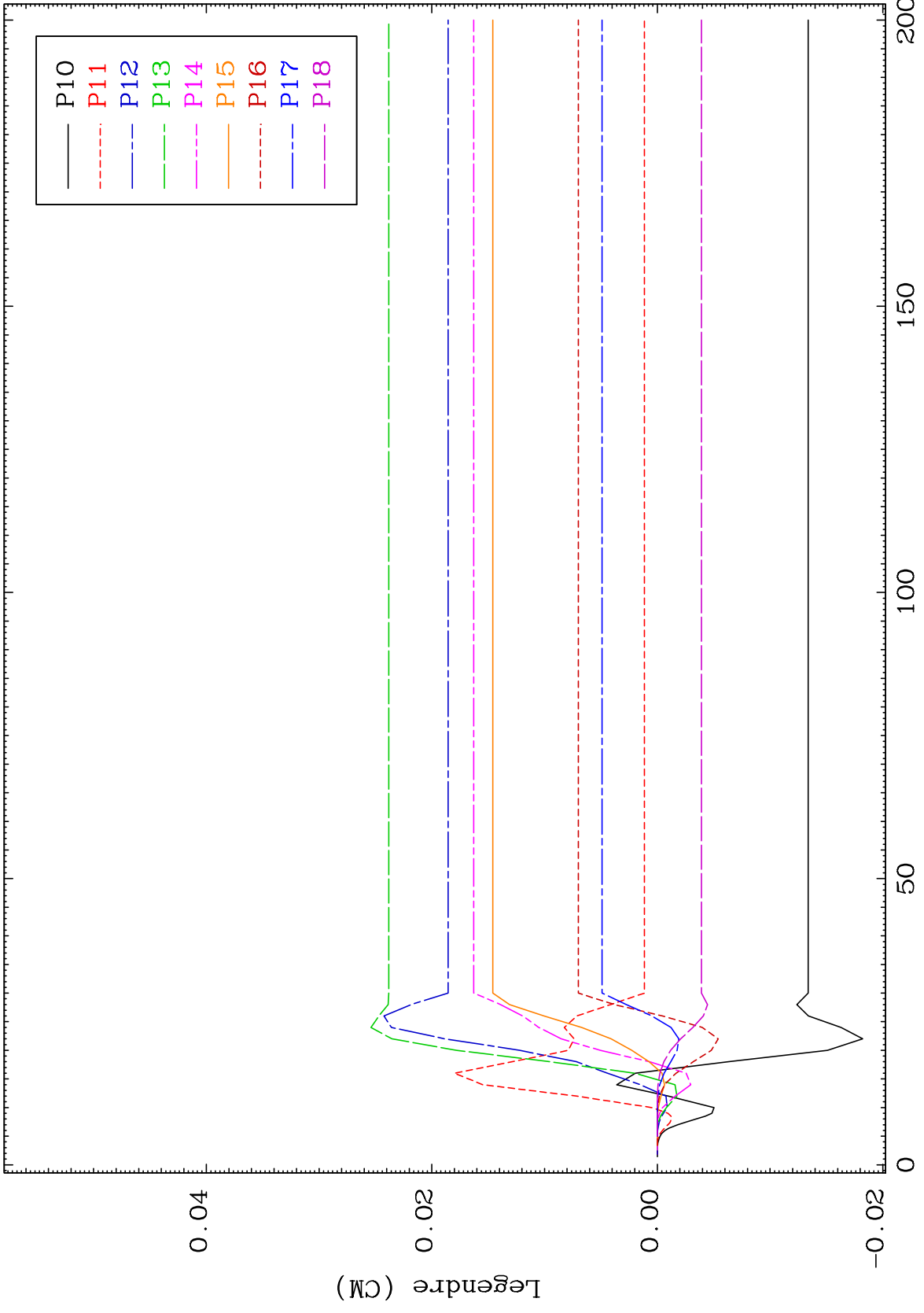
60-Nd-147

MAT 6040 MT= 74 (n,n') Level Legendre Coefficients 60-Nd-147



112 60-Nd-147

MAT 6040 MT= 74 (n,n') Level Legendre Coefficients 60-Nd-147

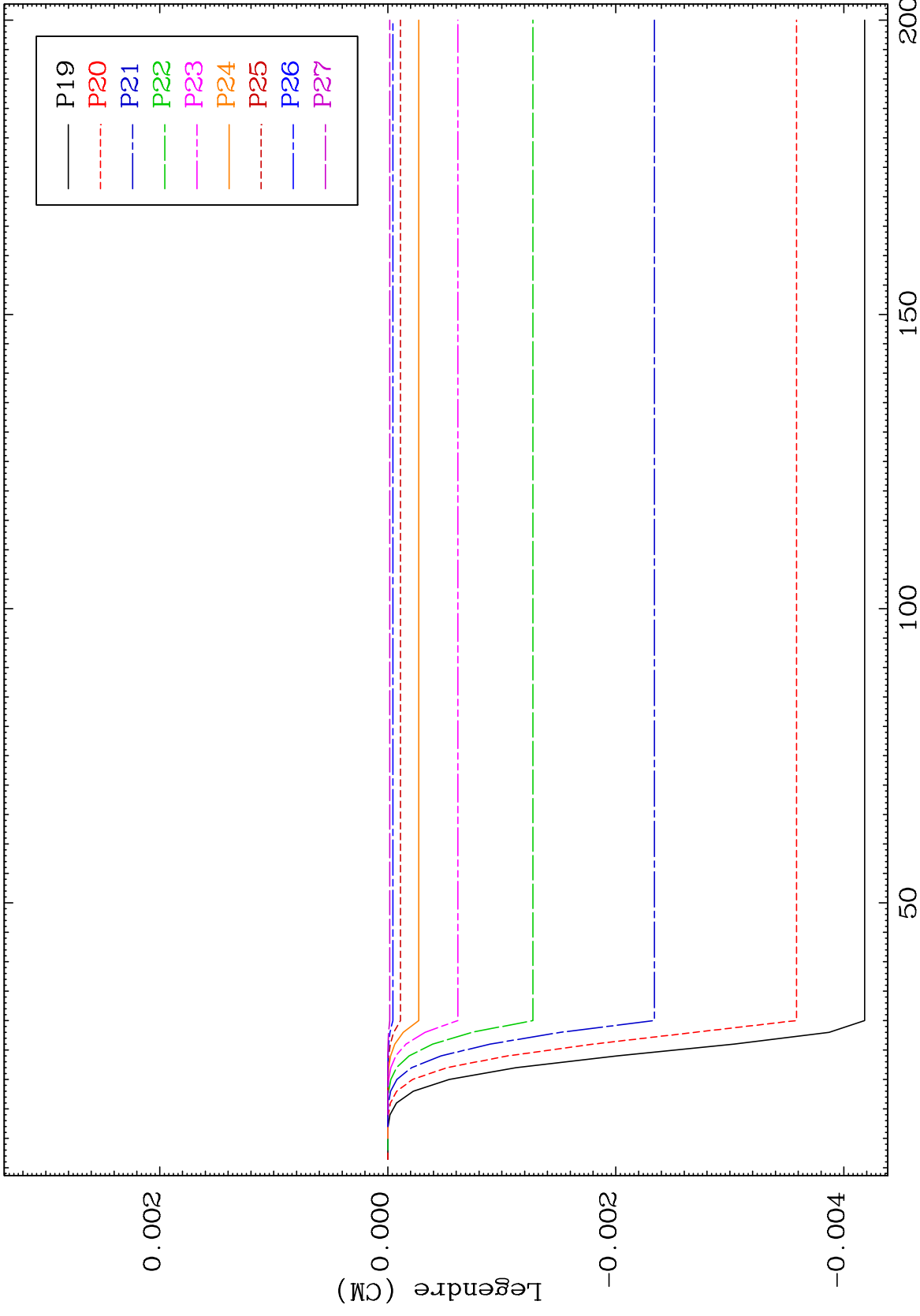


113 60-Nd-147

MAT 6040

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

60-Nd-147



114

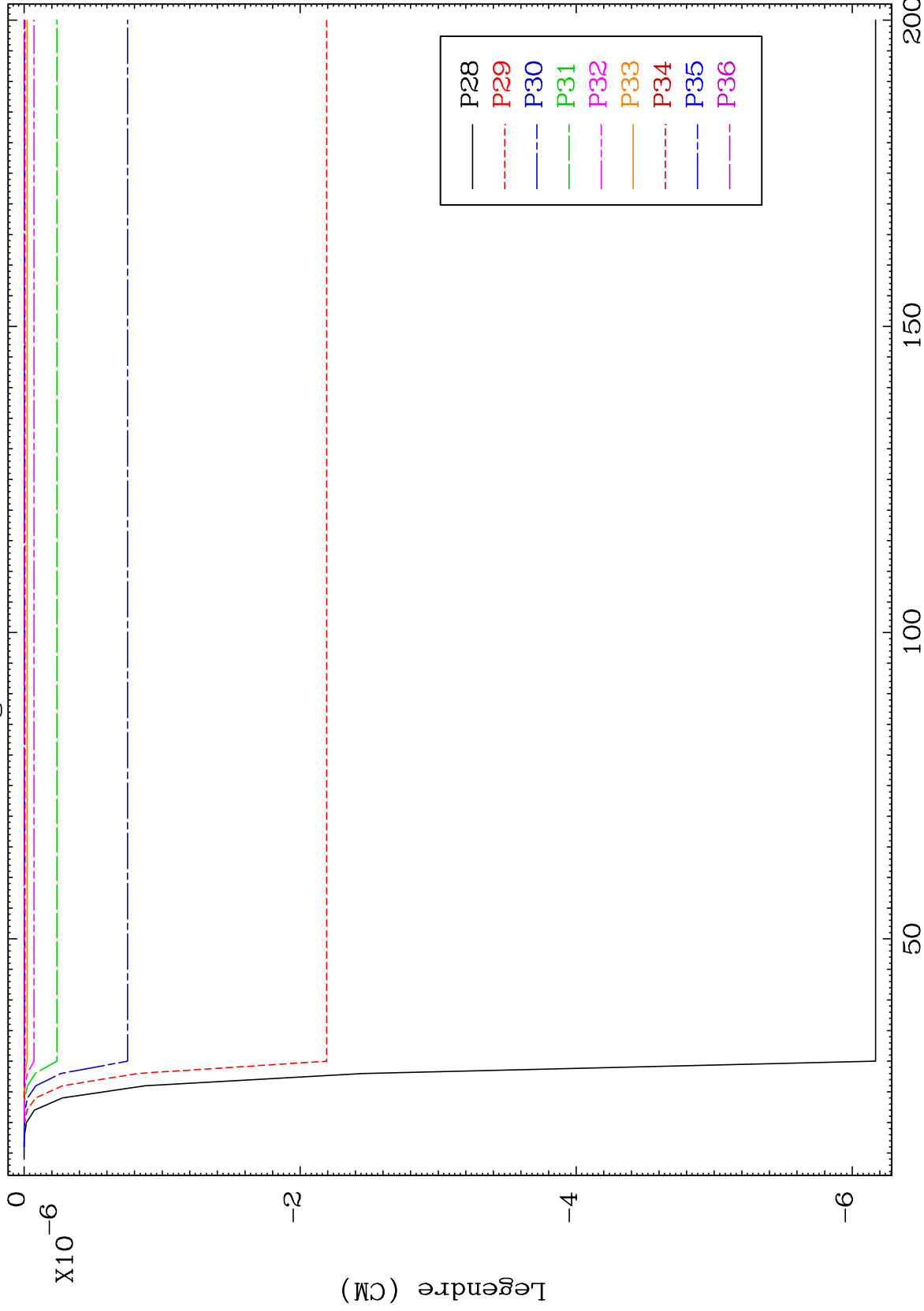
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

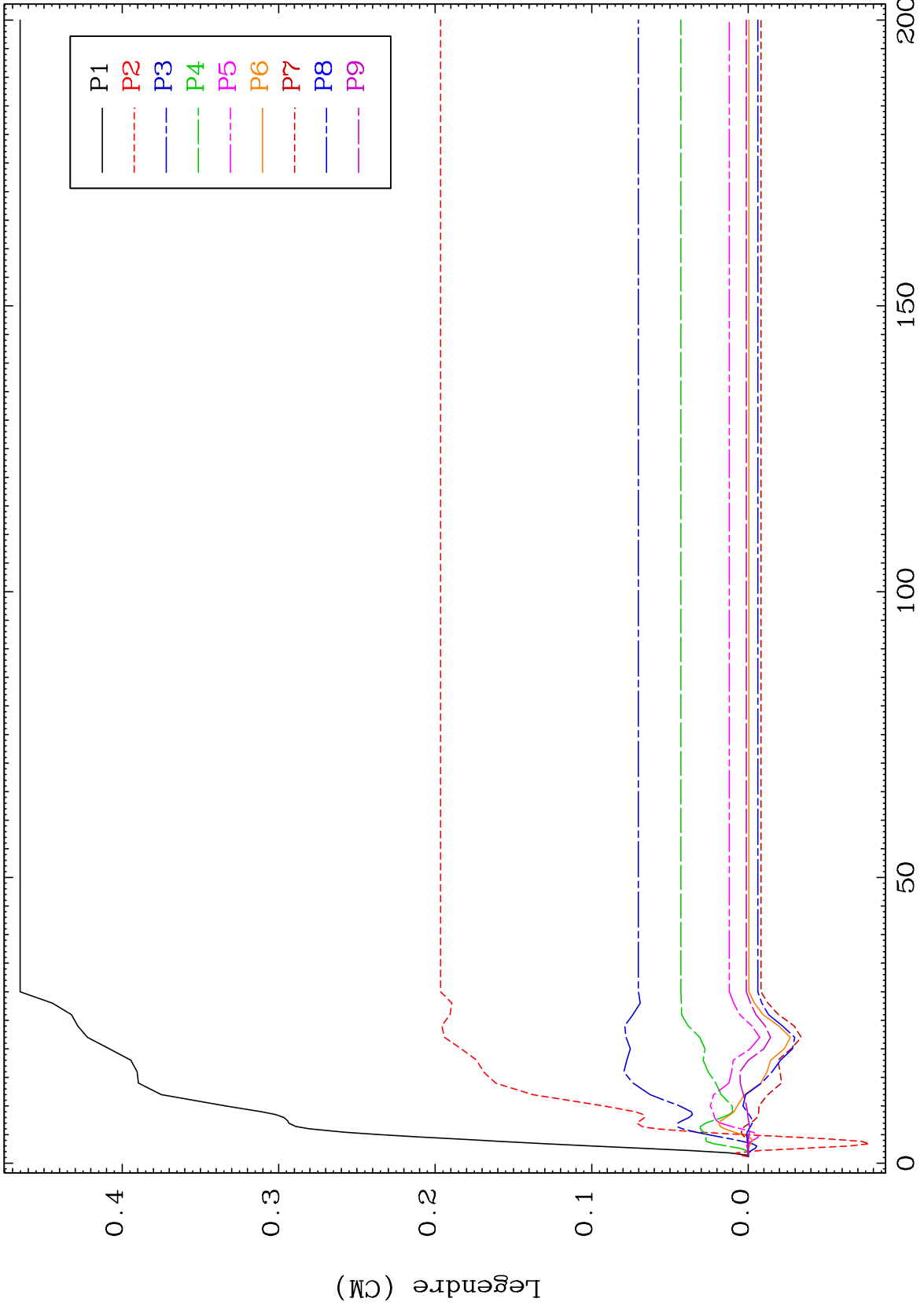


60-Nd-147

Incident Energy (MeV)

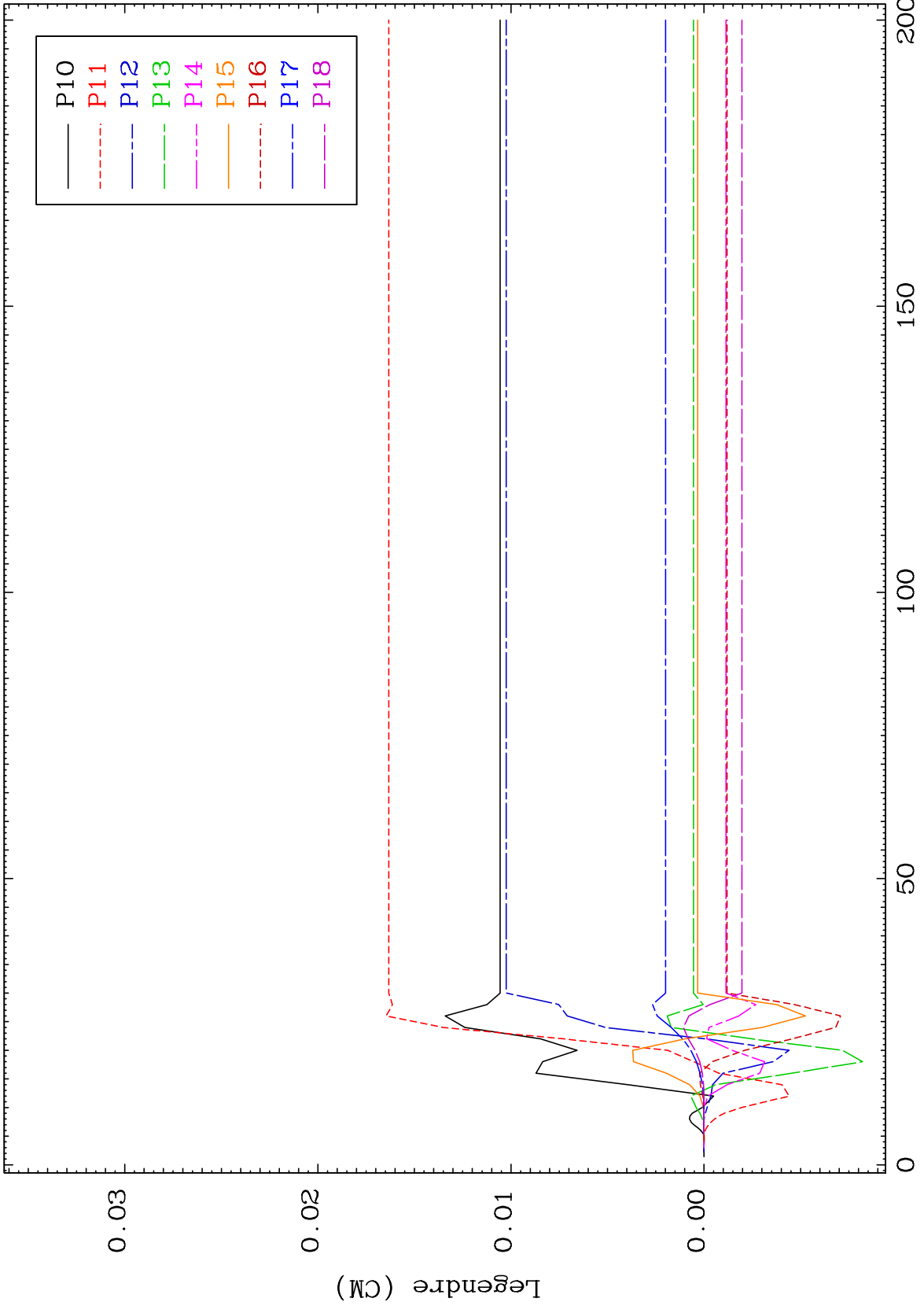
115

MAT 6040 MT= 75 (n,n') Level Legendre Coefficients 60-Nd-147



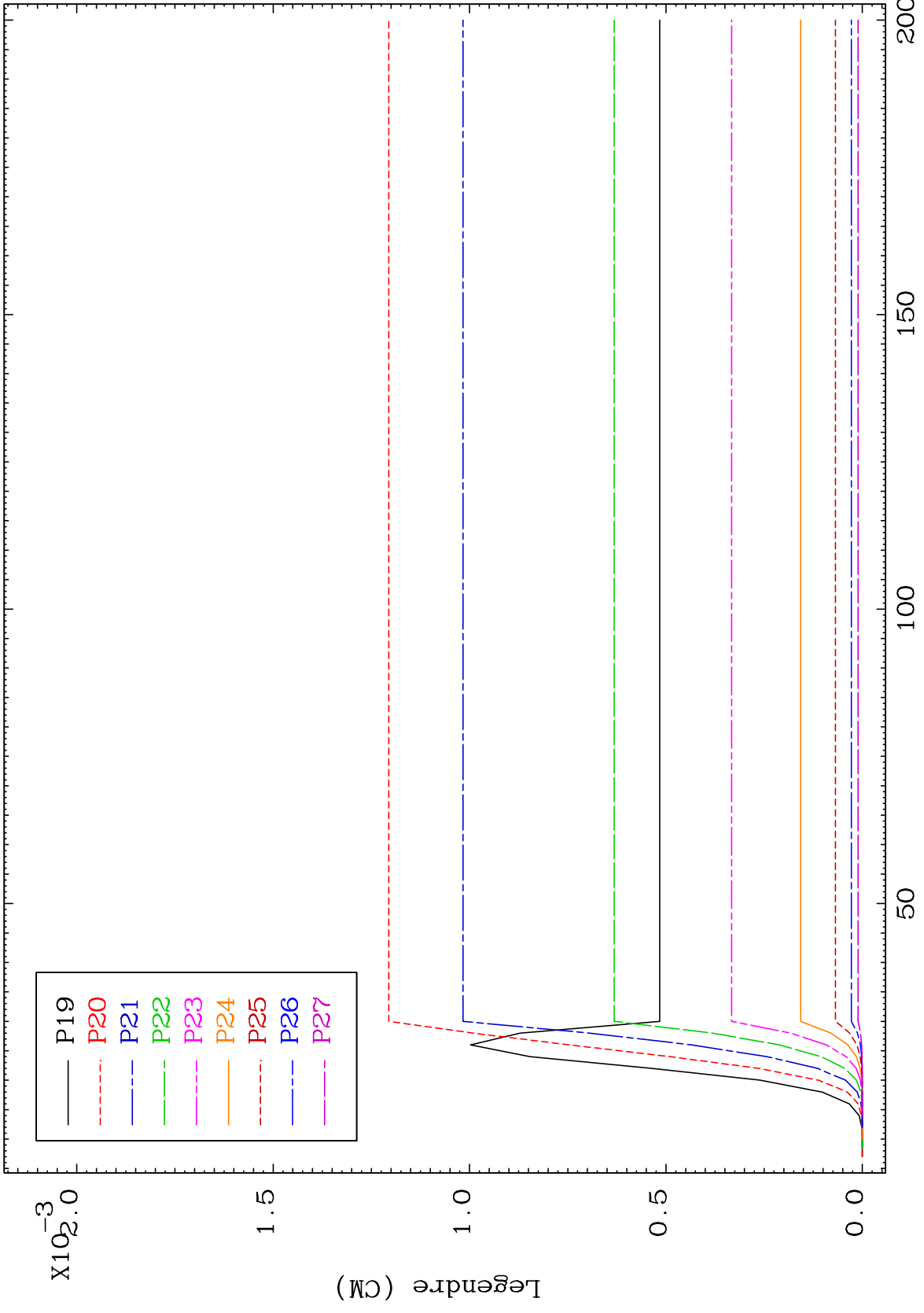
116 Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 75 (n,n') Level Legendre Coefficients 60-Nd-147



117 60-Nd-147

MAT 6040 MT= 75 (n,n') Level Legendre Coefficients 60-Nd-147

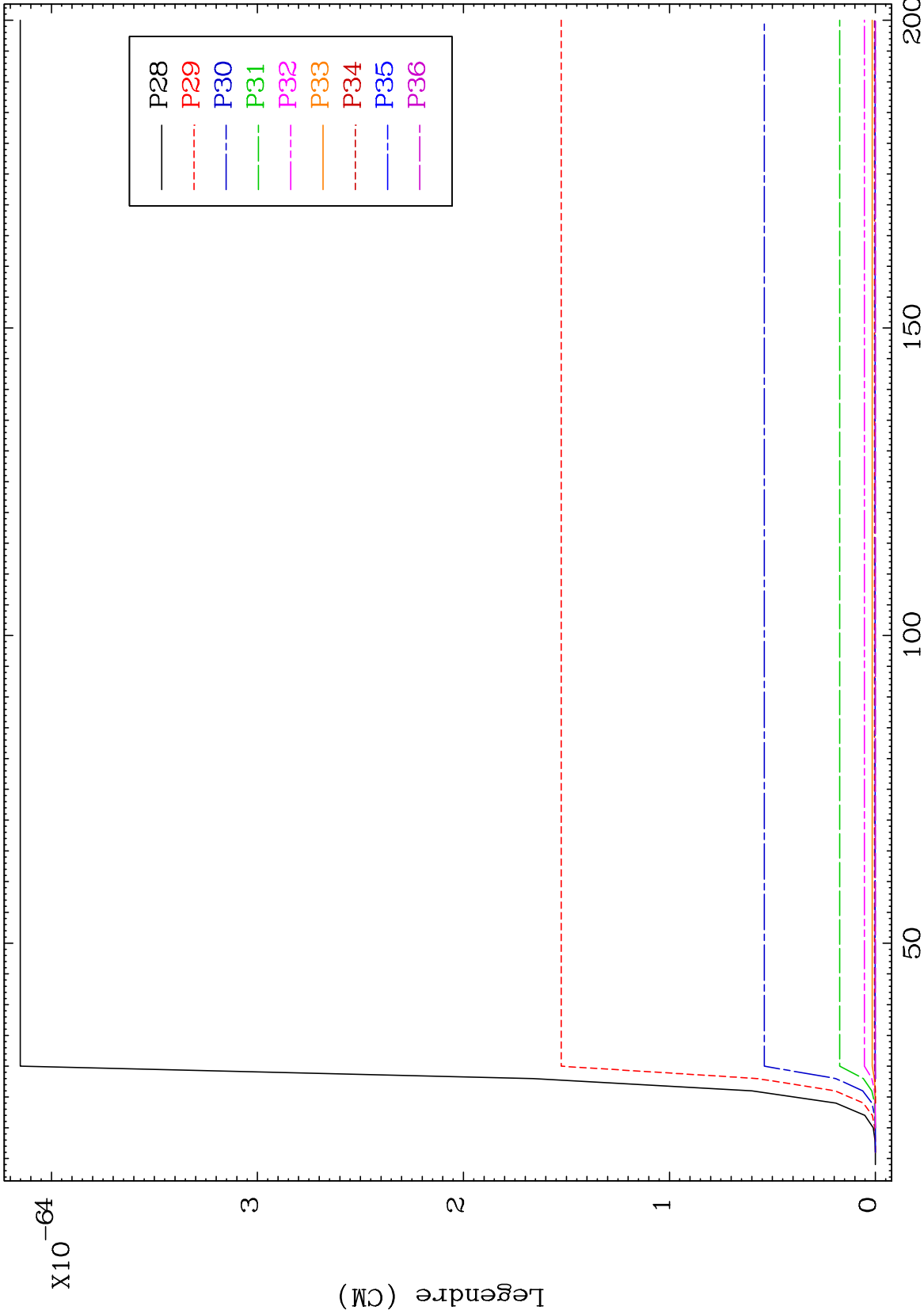


118 60-Nd-147

MAT 6040

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

60-Nd-147



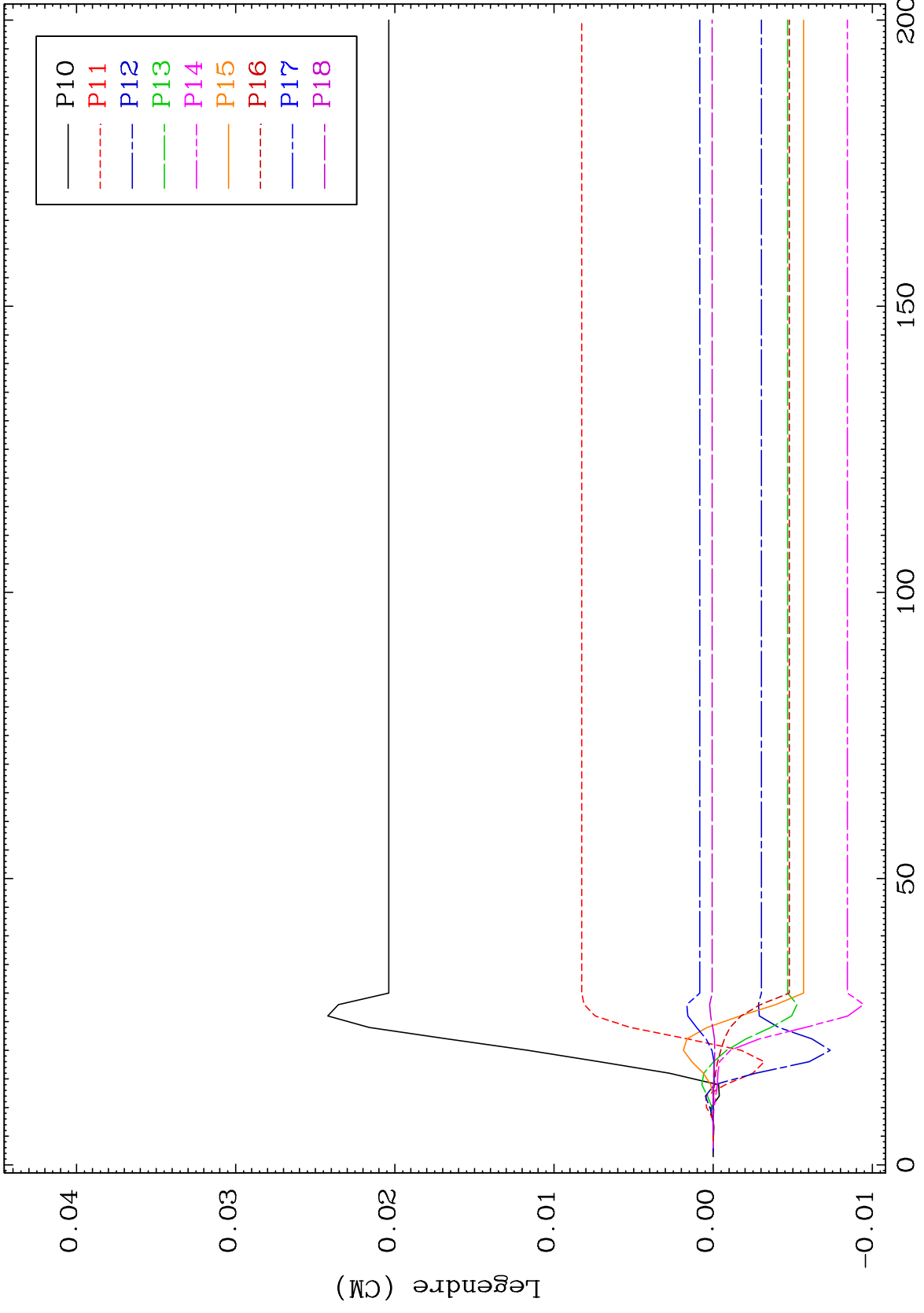
119

60-Nd-147

MAT 6040

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

60-Nd-147

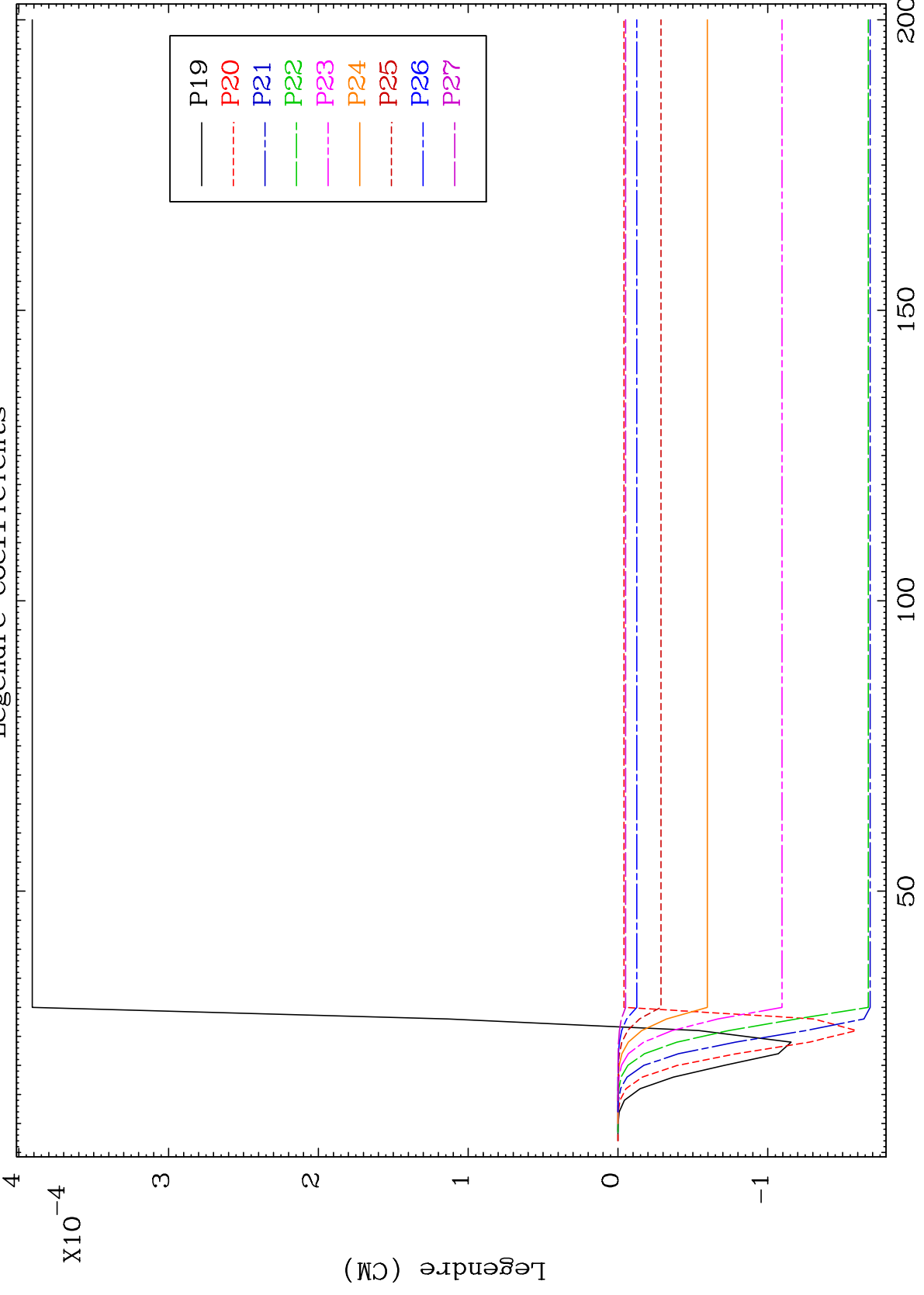


121

Incident Energy (MeV)

60-Nd-147

MAT 6040 MT= 76 (n,n') Level Legendre Coefficients 60-Nd-147

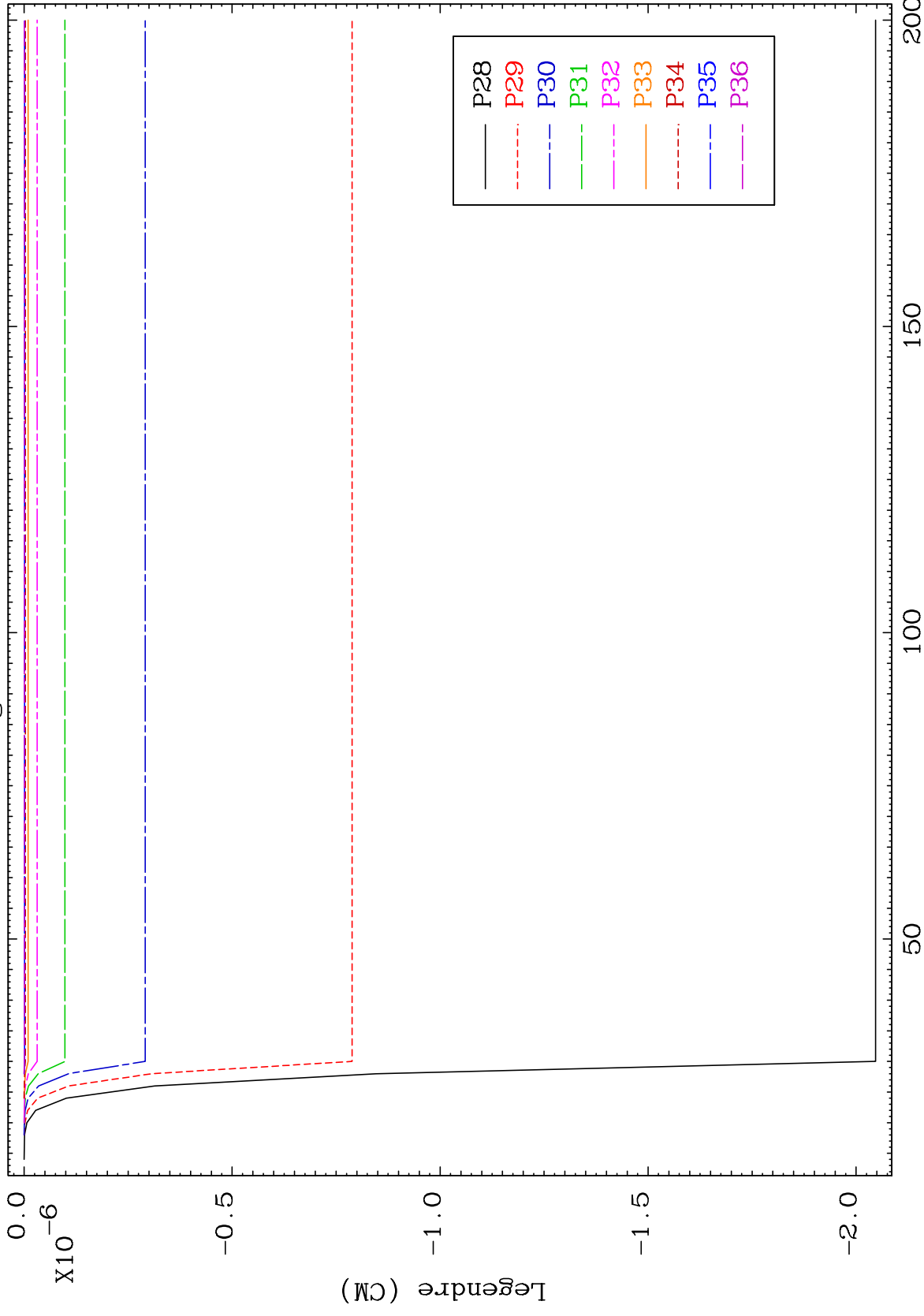


122 60-Nd-147

MAT 6040

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

60-Nd-147

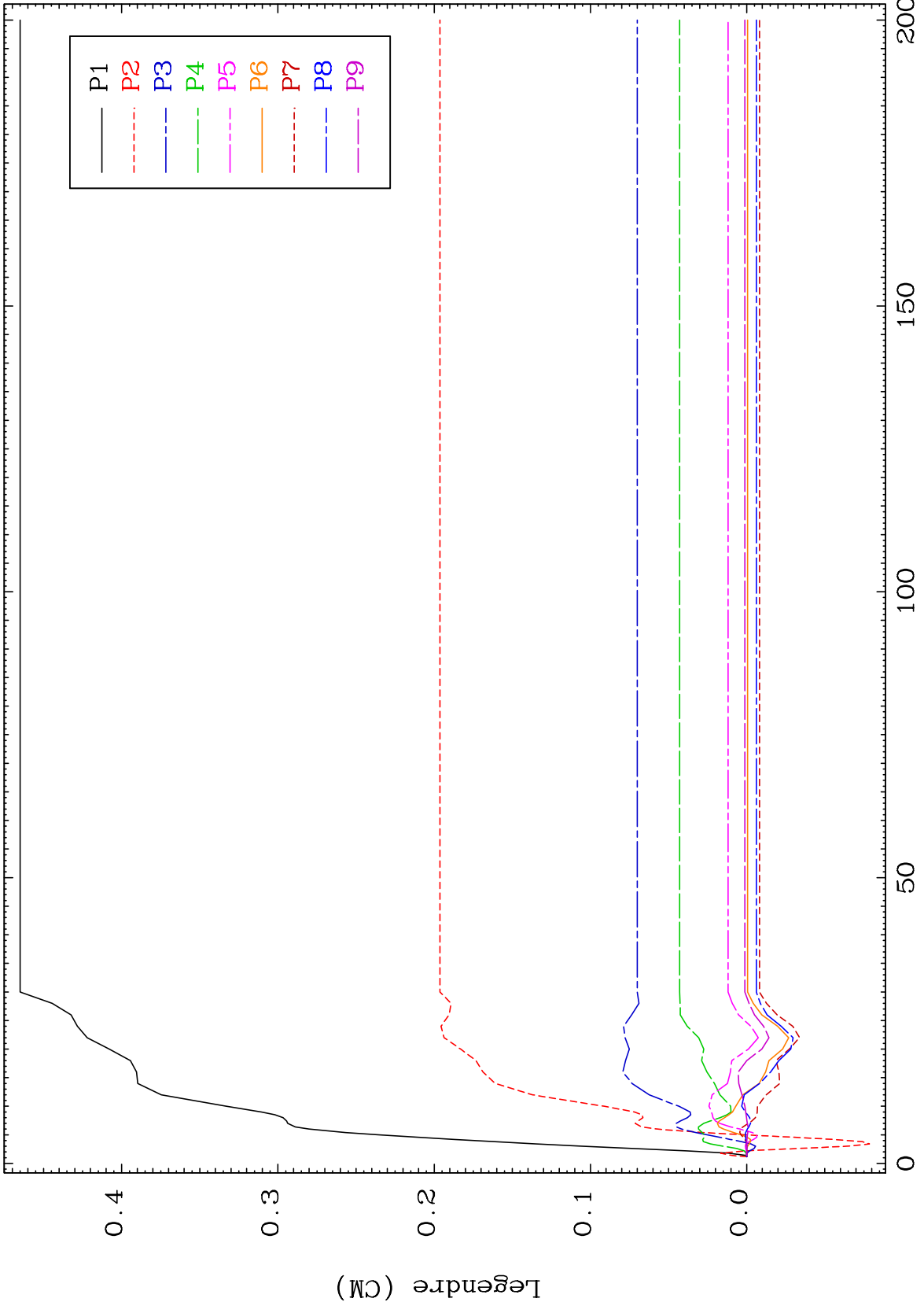


123

Incident Energy (MeV)

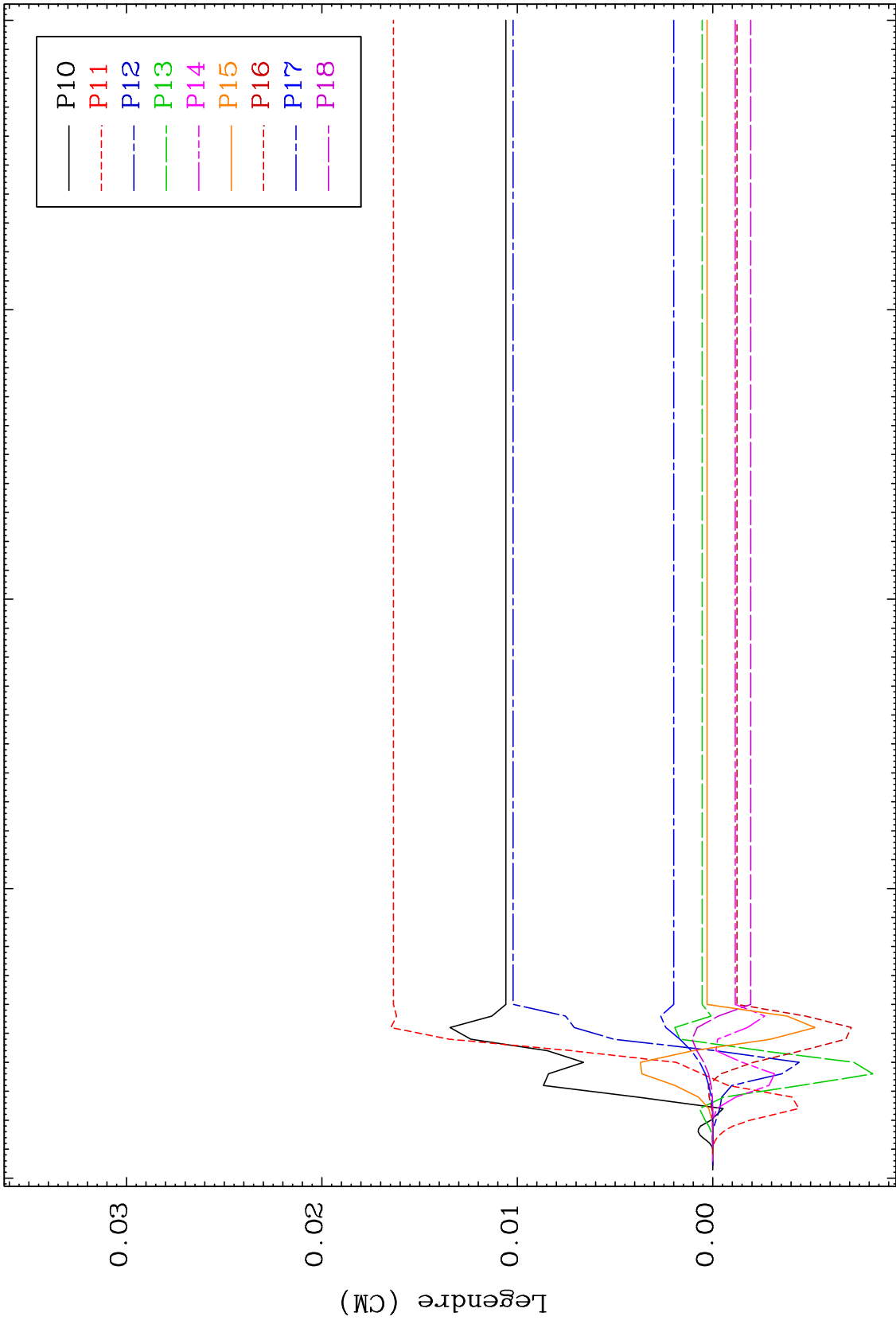
60-Nd-147

MAT 6040 MT= 77 (n,n') Level Legendre Coefficients 60-Nd-147



124 Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 77 (n,n') Level Legendre Coefficients 60-Nd-147

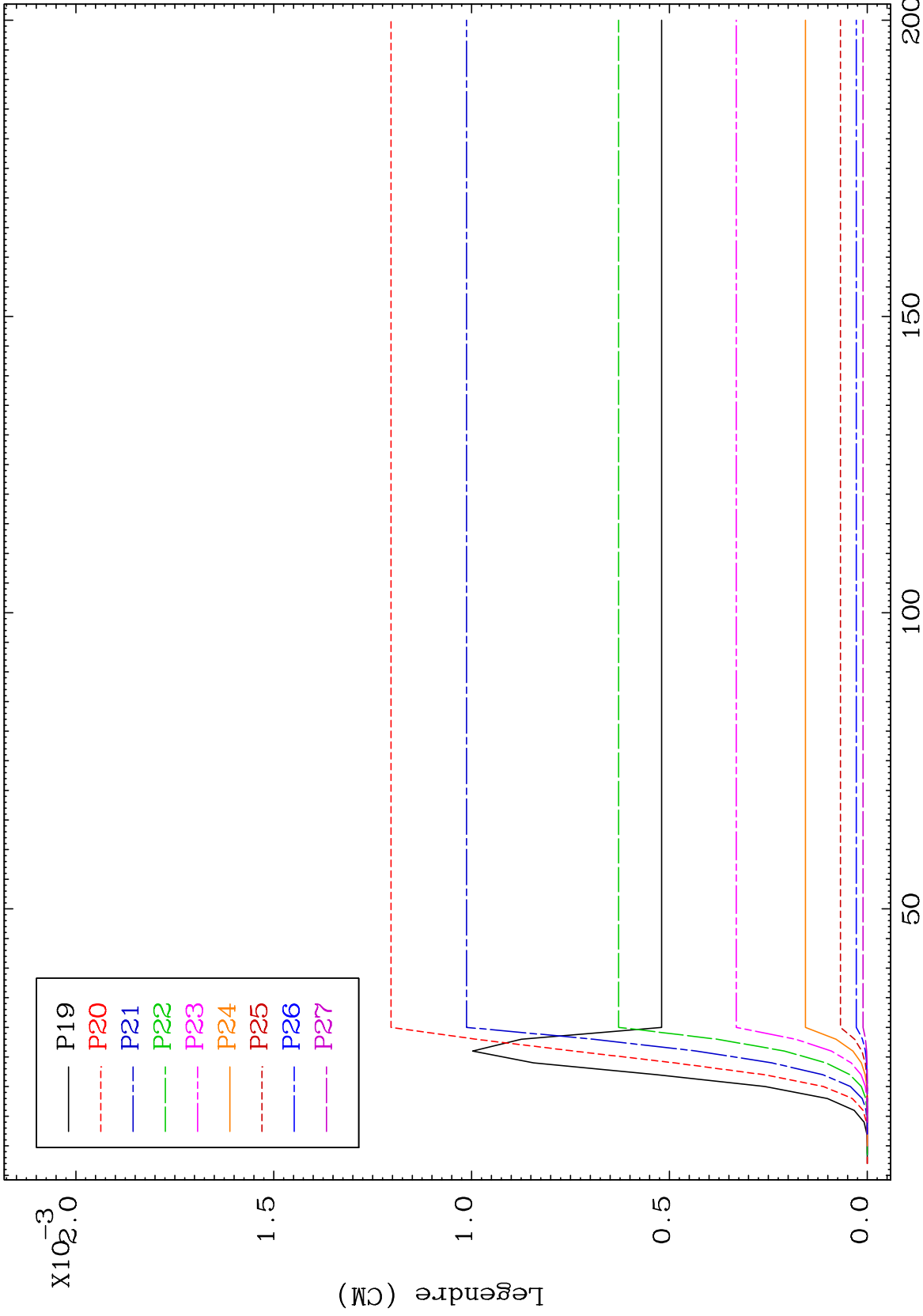


125 Incident Energy (MeV) 60-Nd-147

MAT 6040

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

60-Nd-147



126

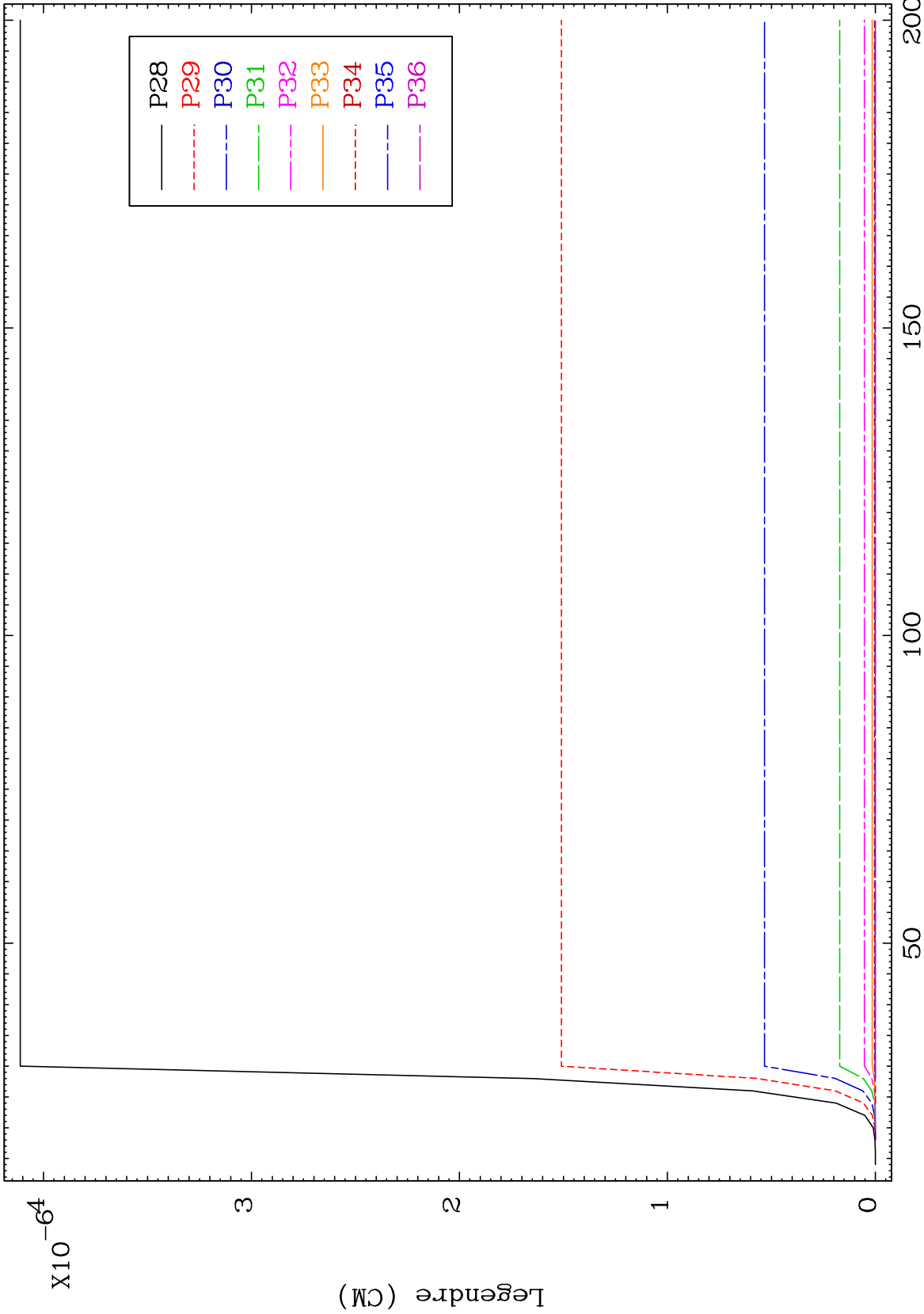
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

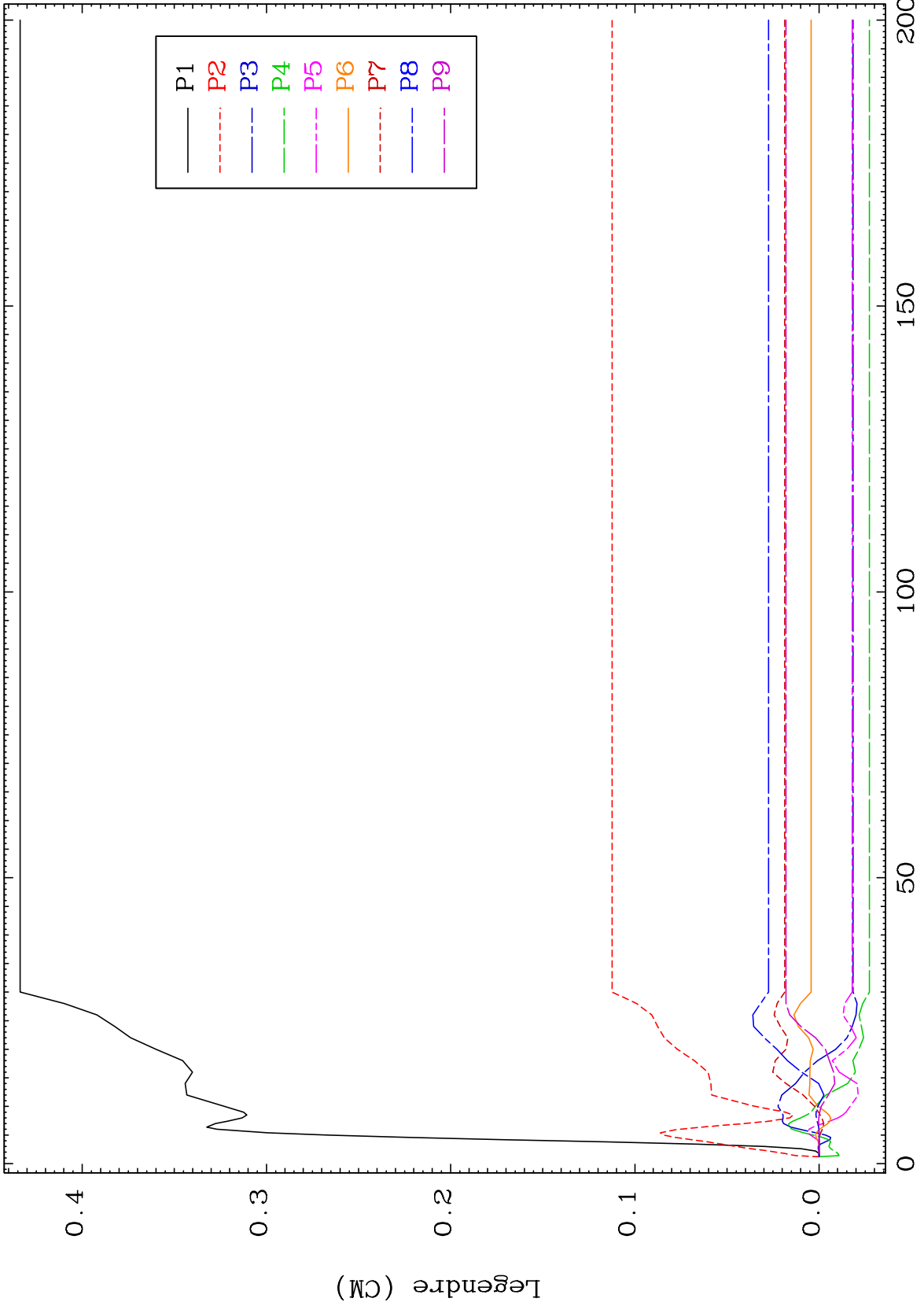
60-Nd-147



127

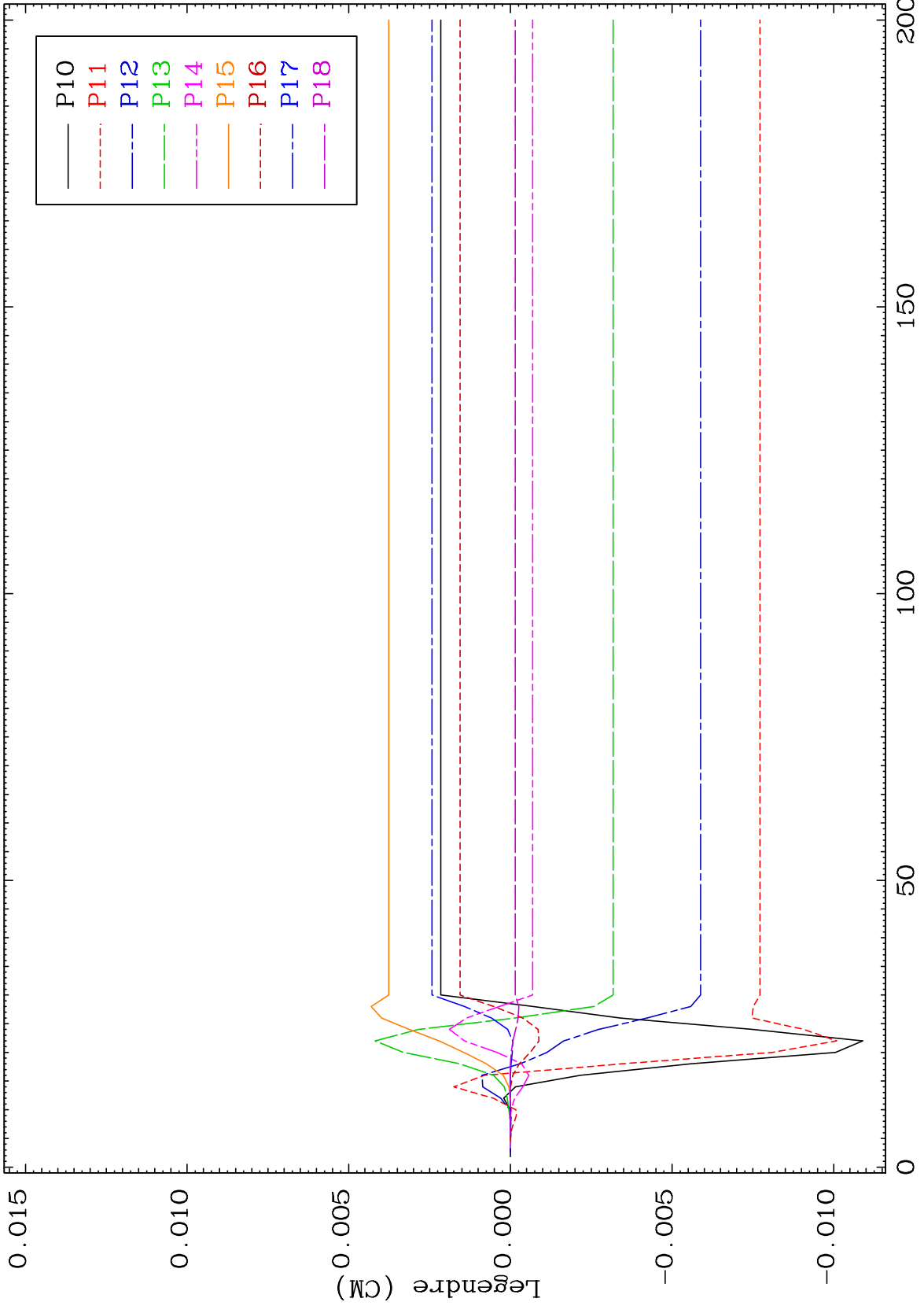
60-Nd-147

MAT 6040 MT= 78 (n,n') Level Legendre Coefficients 60-Nd-147



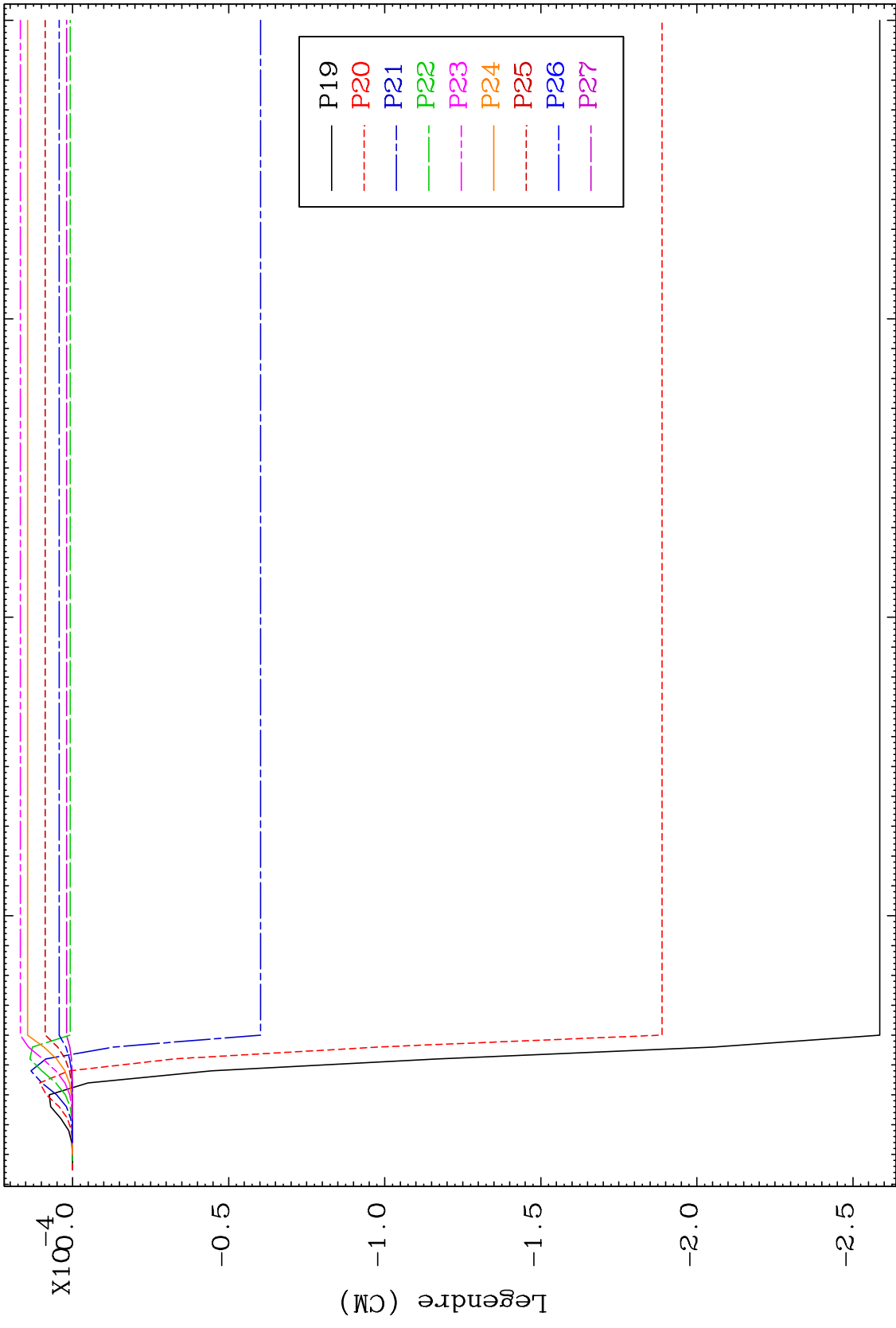
128 60-Nd-147

MAT 6040 MT= 78 (n,n') Level Legendre Coefficients 60-Nd-147



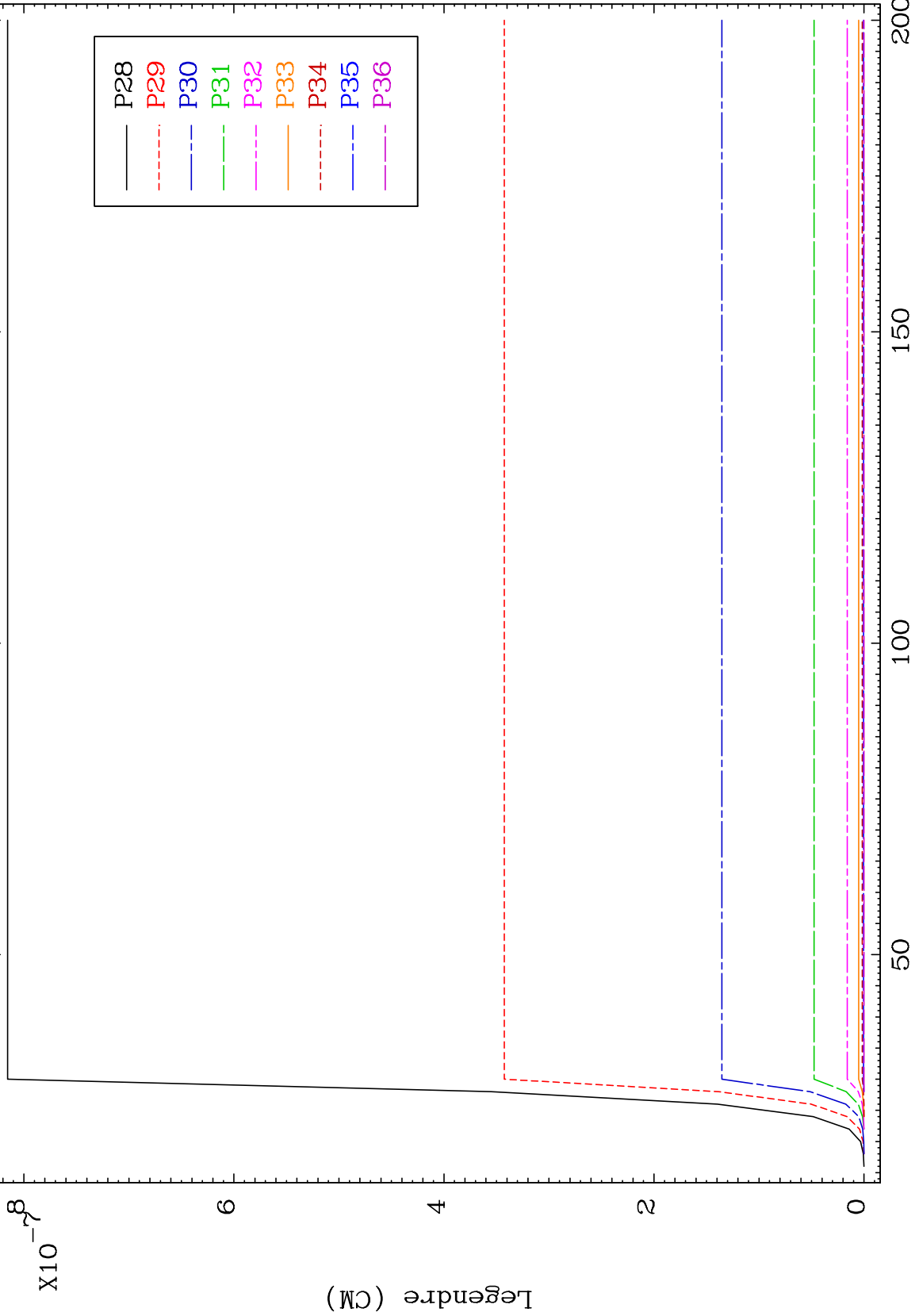
129 60-Nd-147

MAT 6040 MT= 78 (n,n') Level Legendre Coefficients 60-Nd-147



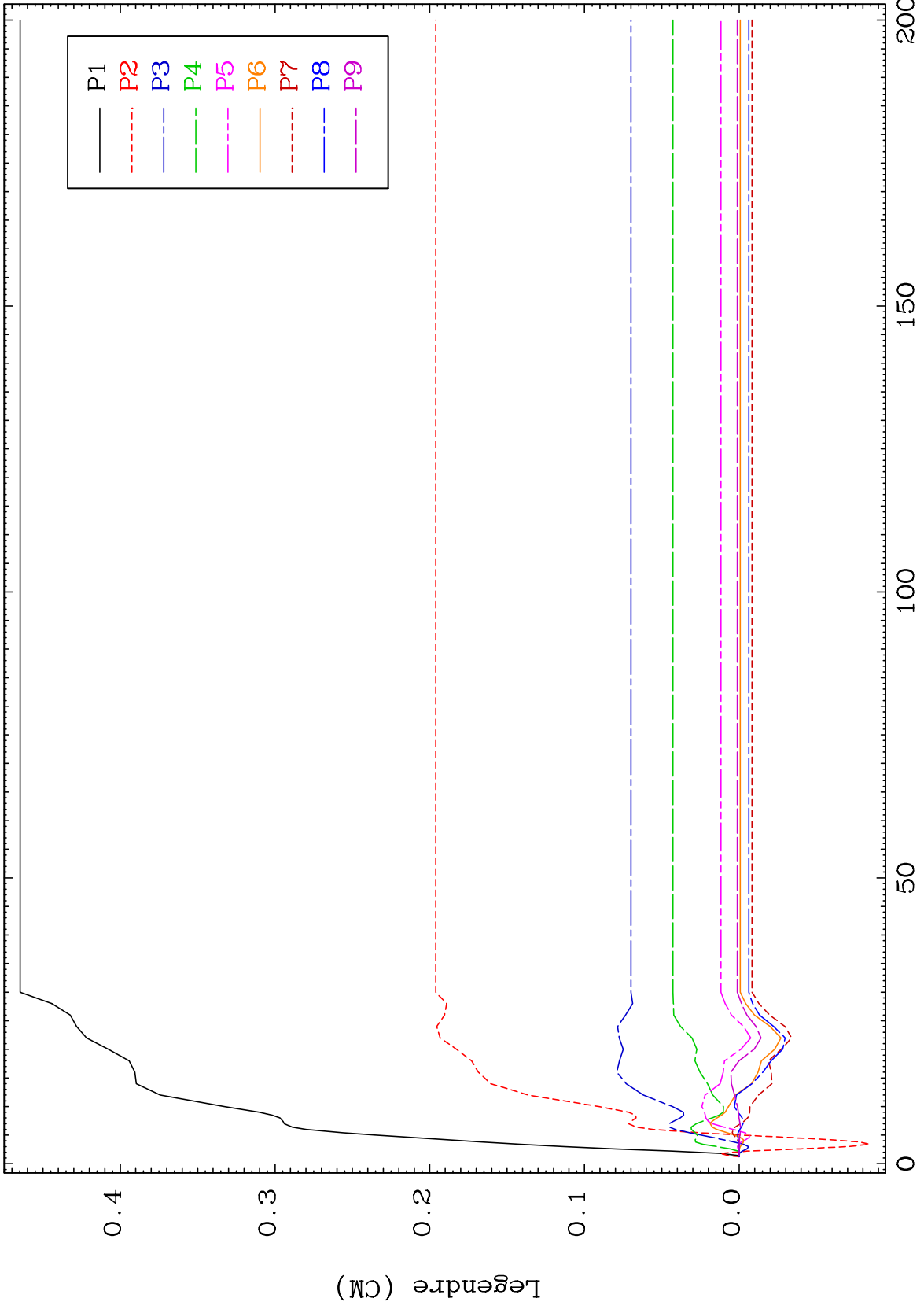
130 Incident Energy (MeV) 200 60-Nd-147

MAT 6040 MT= 78 (n,n') Level Legendre Coefficients 60-Nd-147



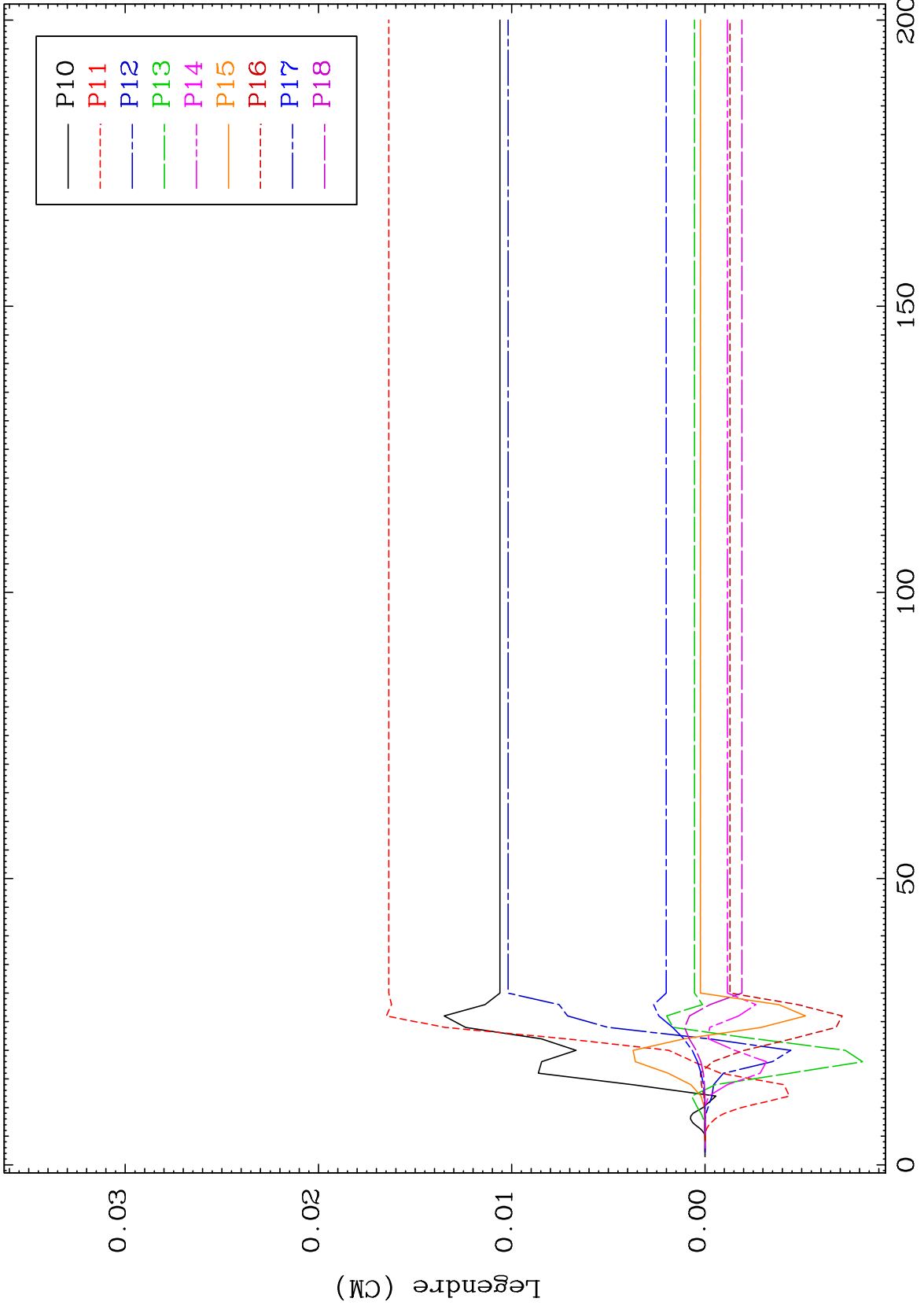
131 Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 79 (n,n') Level Legendre Coefficients 60-Nd-147



132 Incident Energy (MeV) 60-Nd-147

MAT 6040 MT= 79 (n,n') Level Legendre Coefficients 60-Nd-147

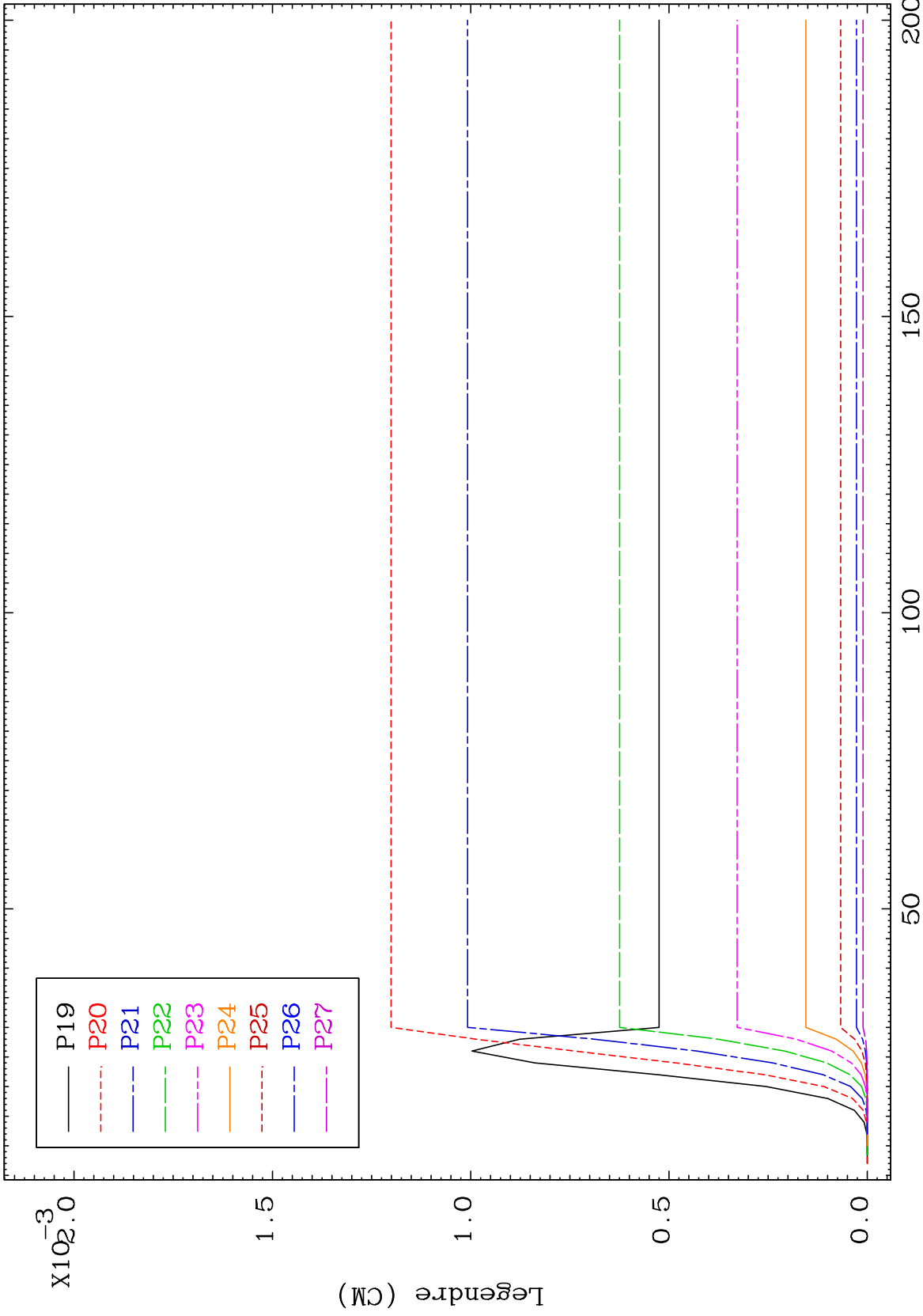


133 60-Nd-147

MAT 6040

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

60-Nd-147



134

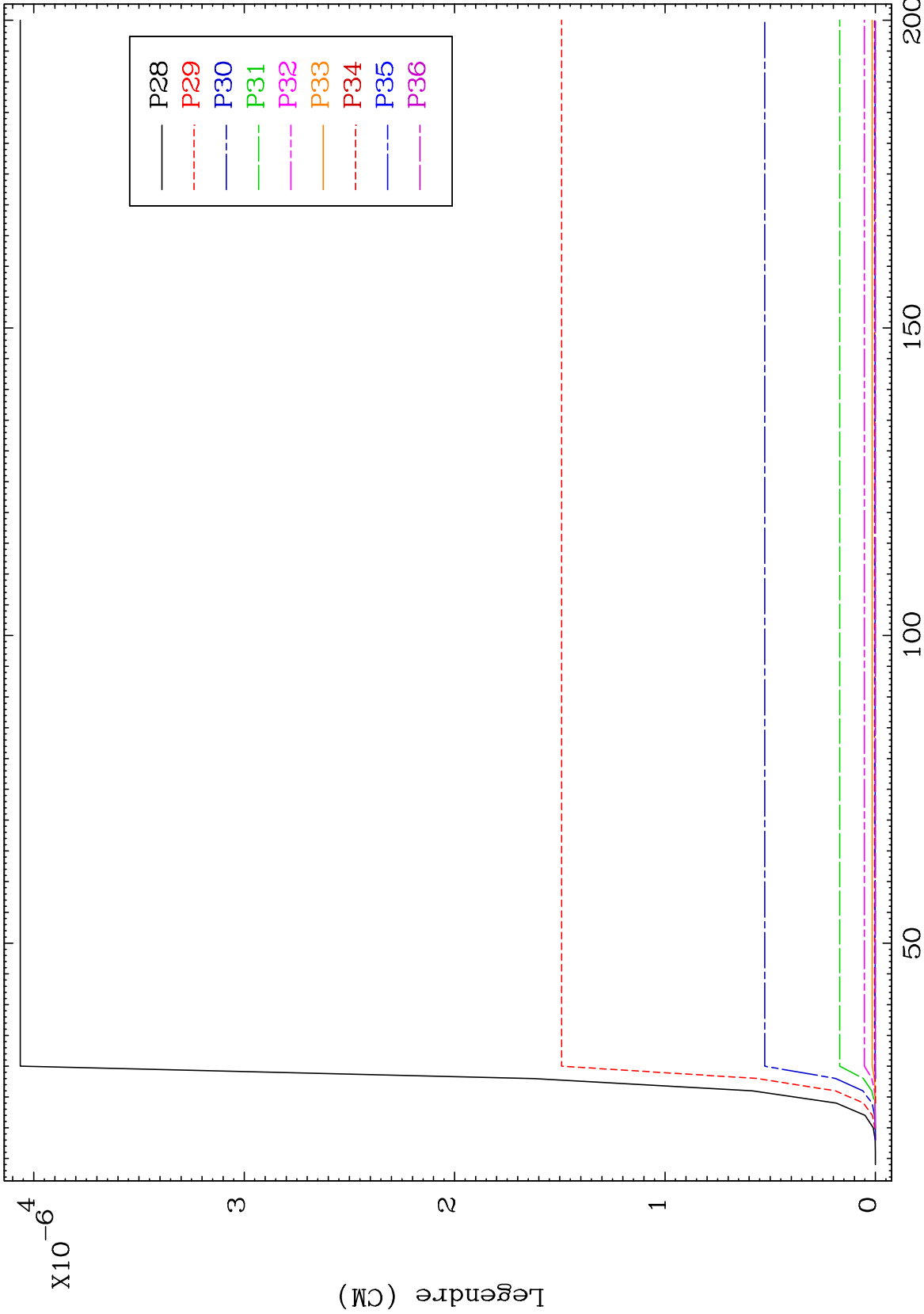
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147

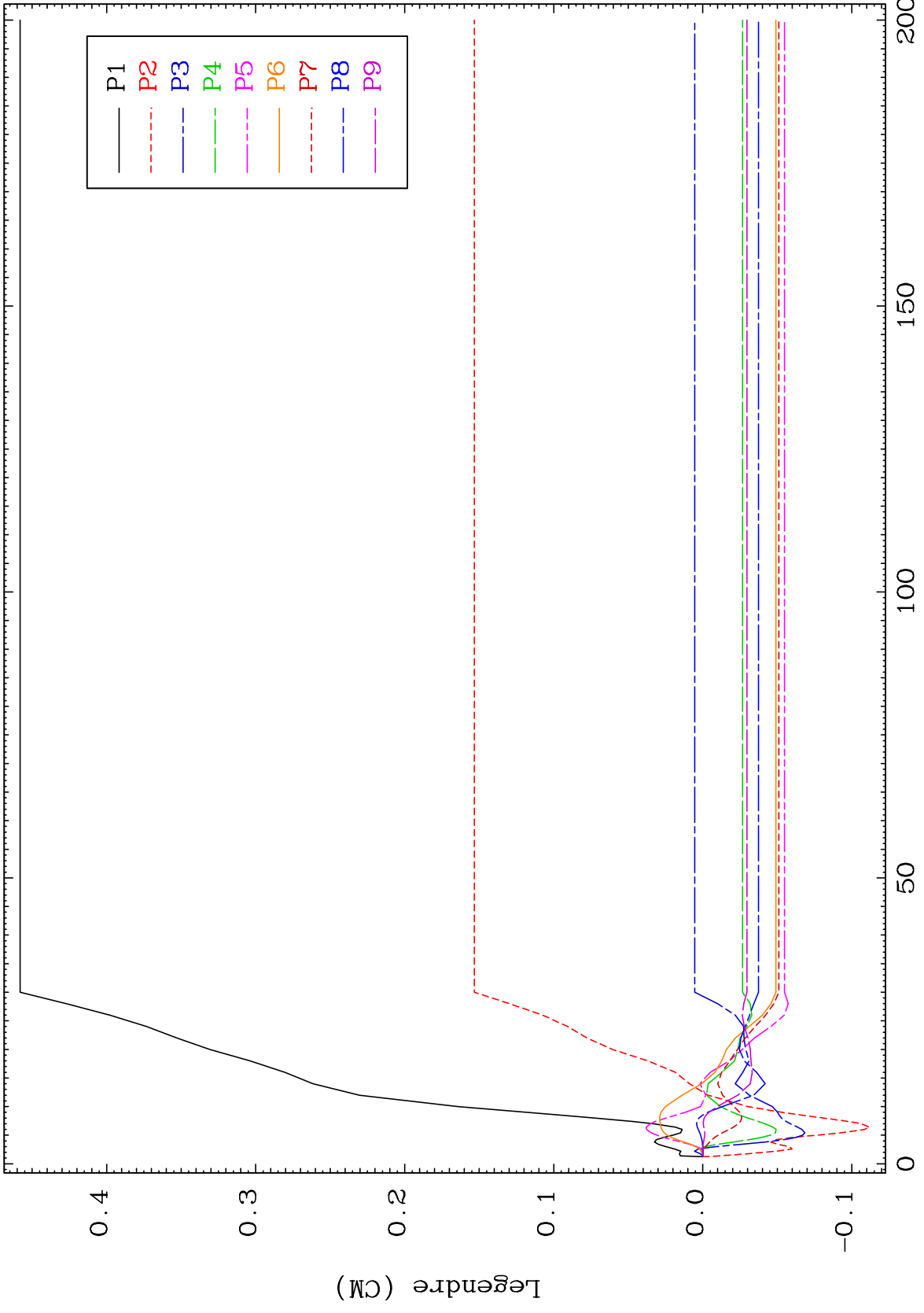


135

Incident Energy (MeV)

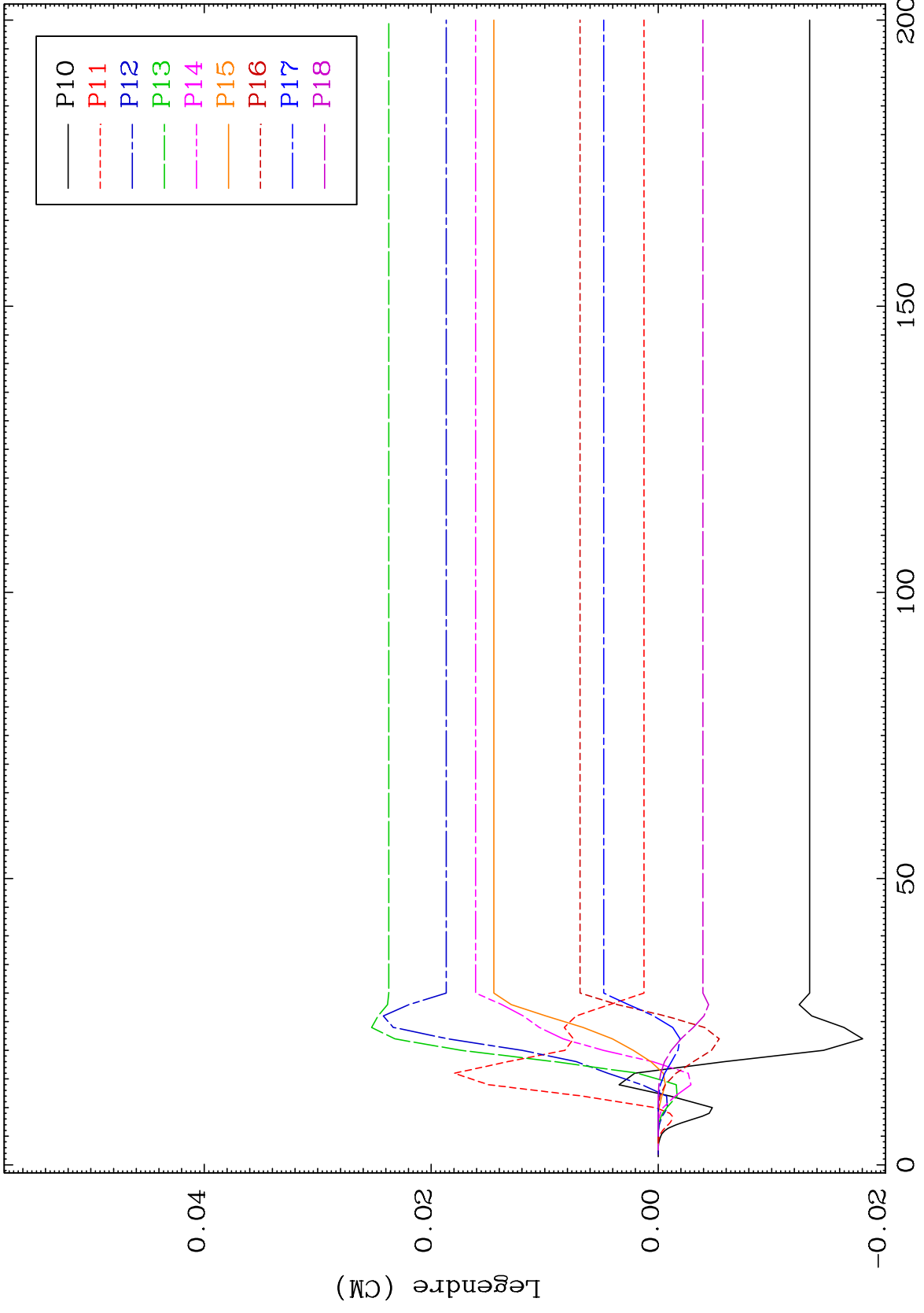
60-Nd-147

MAT 6040 MT= 80 (n,n') Level Legendre Coefficients 60-Nd-147



136 60-Nd-147

MAT 6040 MT= 80 (n,n') Level Legendre Coefficients 60-Nd-147

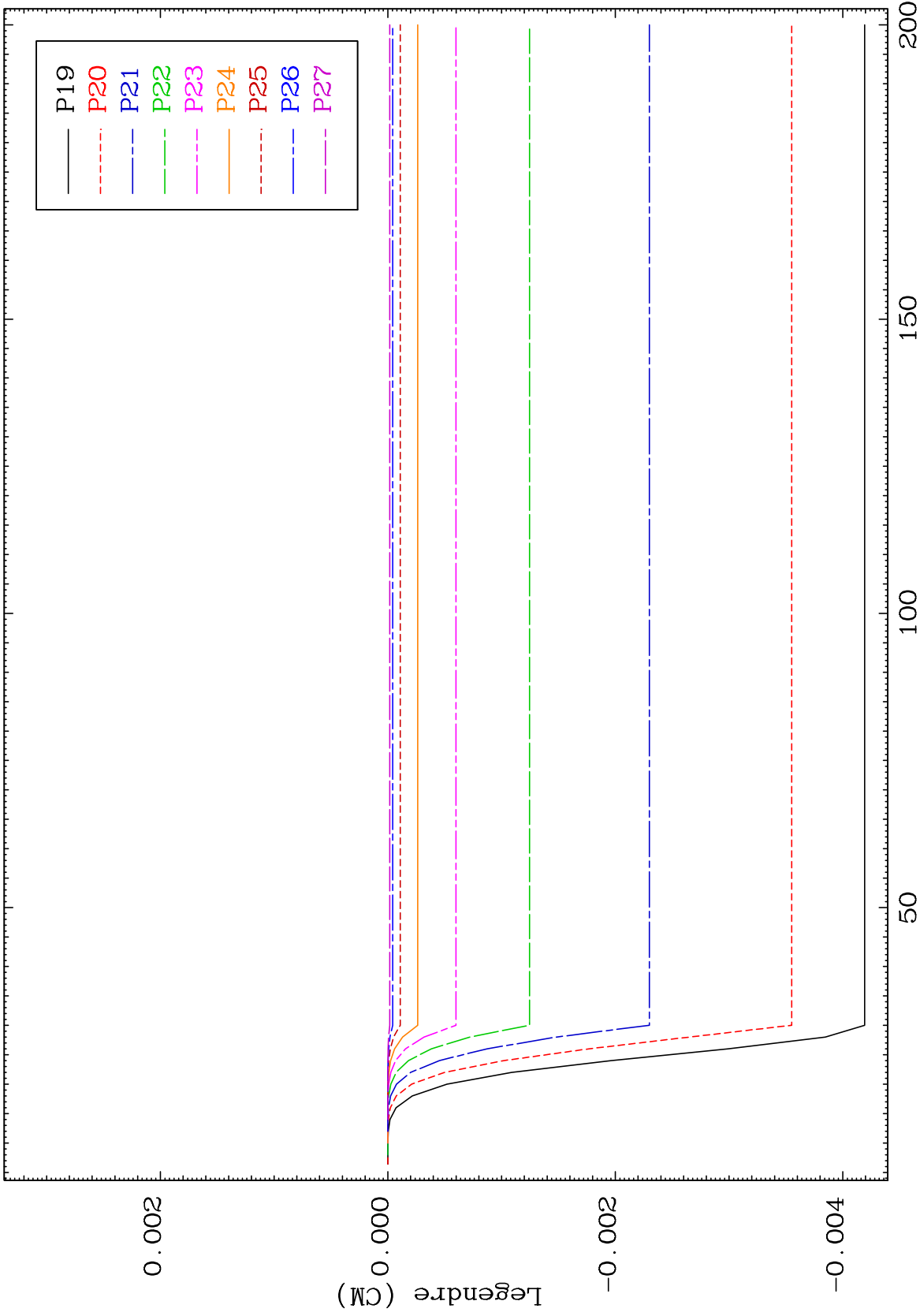


137 60-Nd-147

MAT 6040

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

60-Nd-147



138

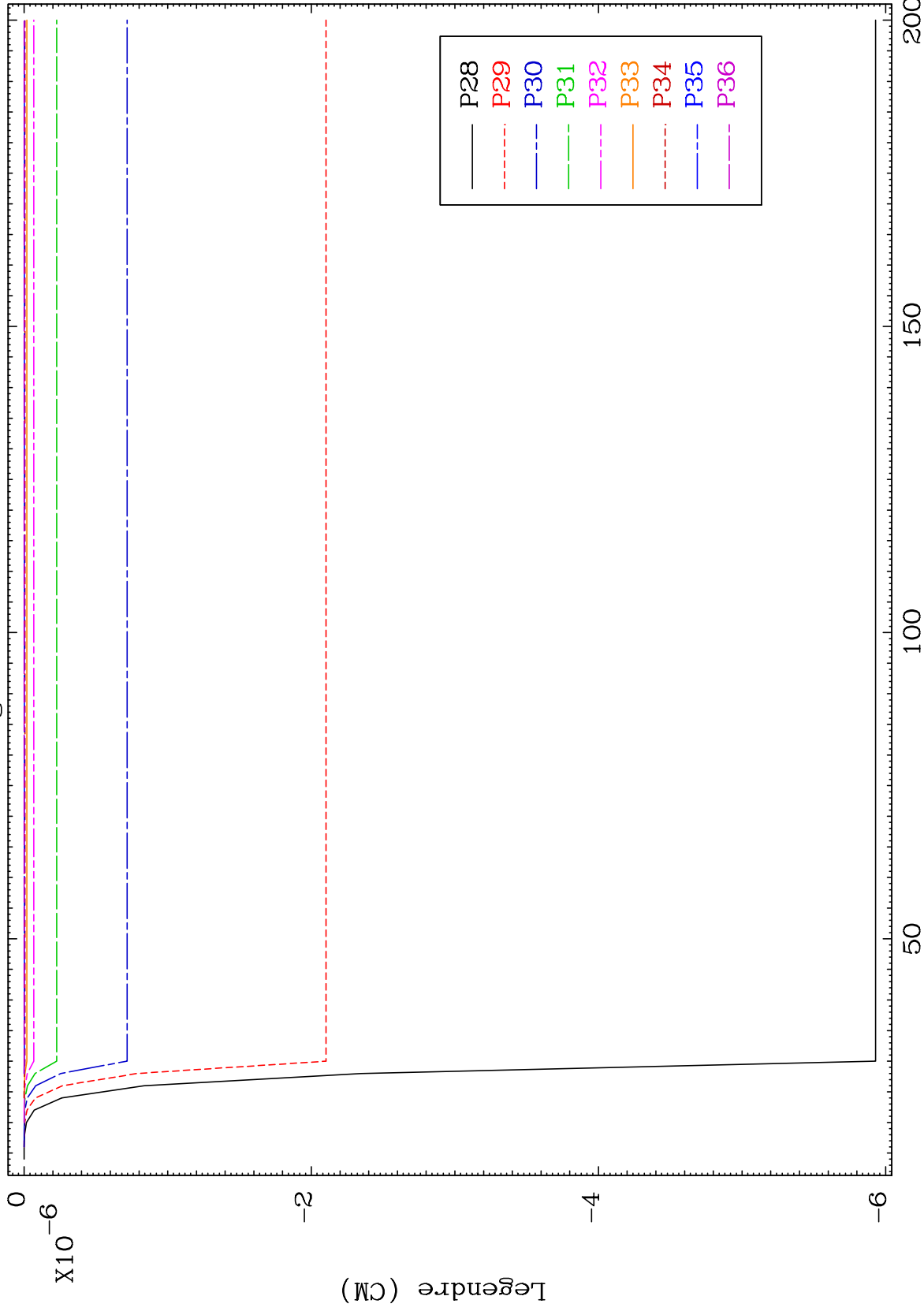
Incident Energy (MeV)

60-Nd-147

MAT 6040

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

60-Nd-147



60-Nd-147

Incident Energy (MeV)

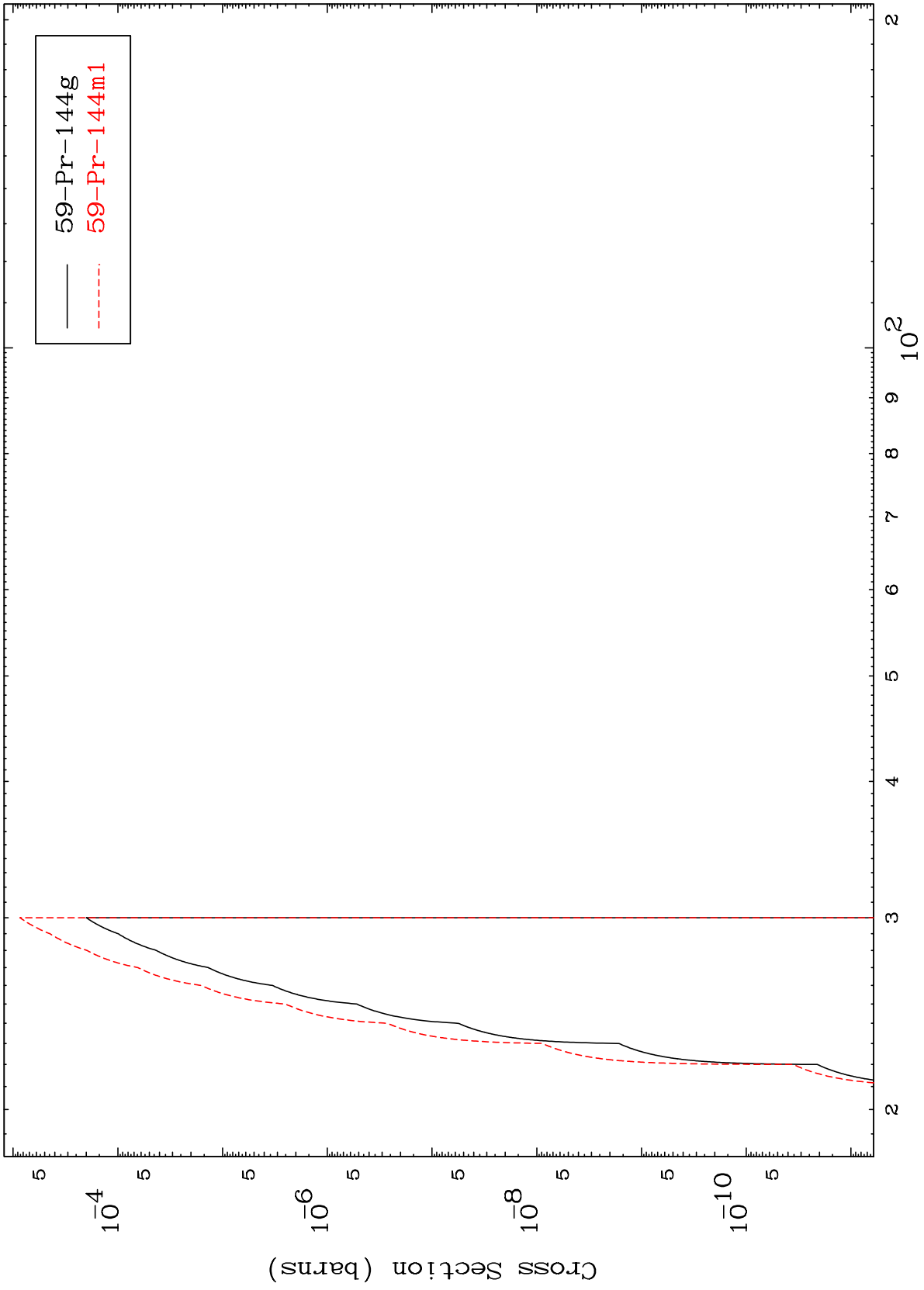
139

MAT 6040

(n,2n) d

⁶⁰Nd-147

Radionuclide Production Cross Section



140

Incident Energy (MeV)

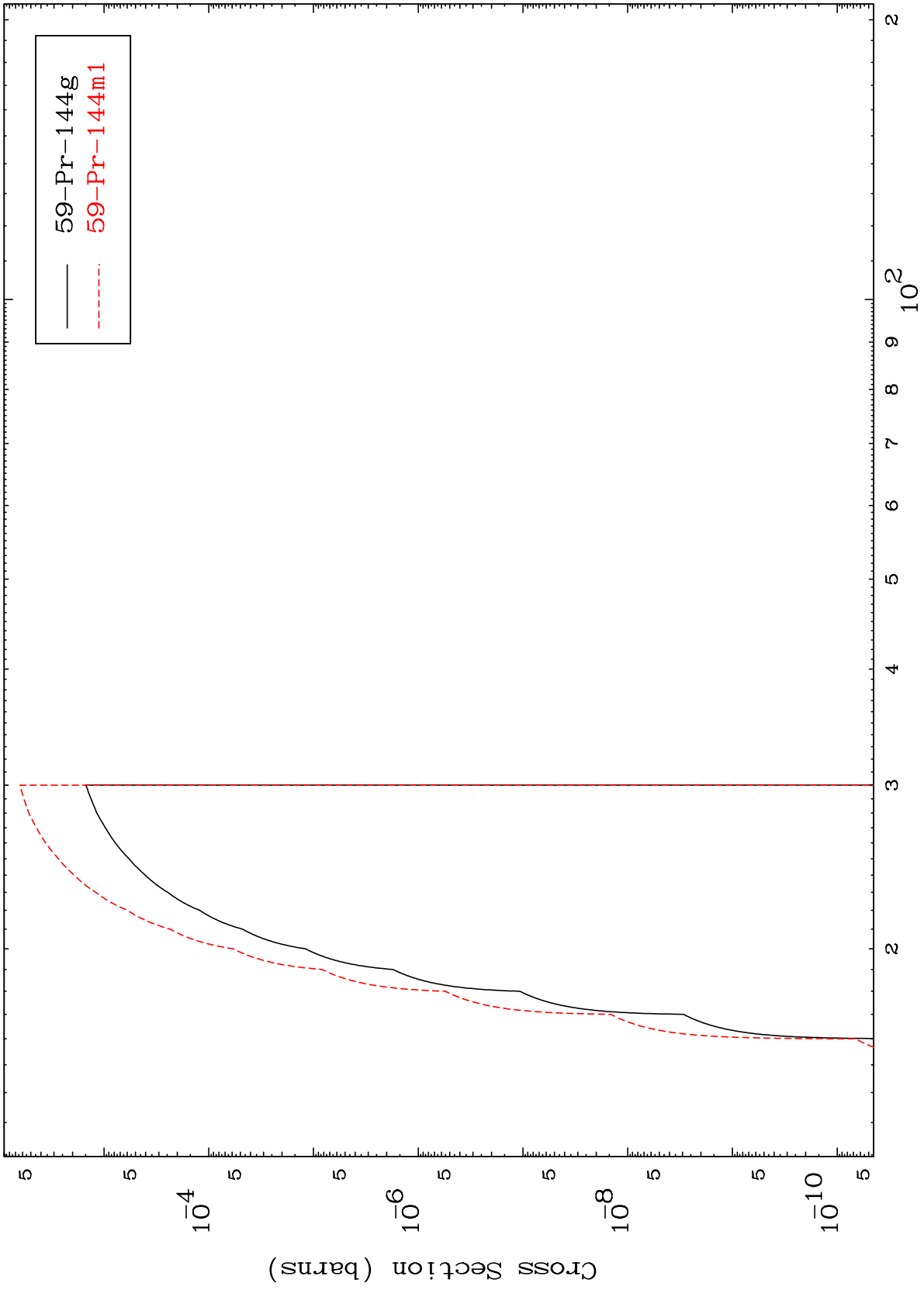
⁶⁰Nd-147

MAT 6040

(n,n') t

⁶⁰Nd-147

Radionuclide Production Cross Section



141

Incident Energy (MeV)

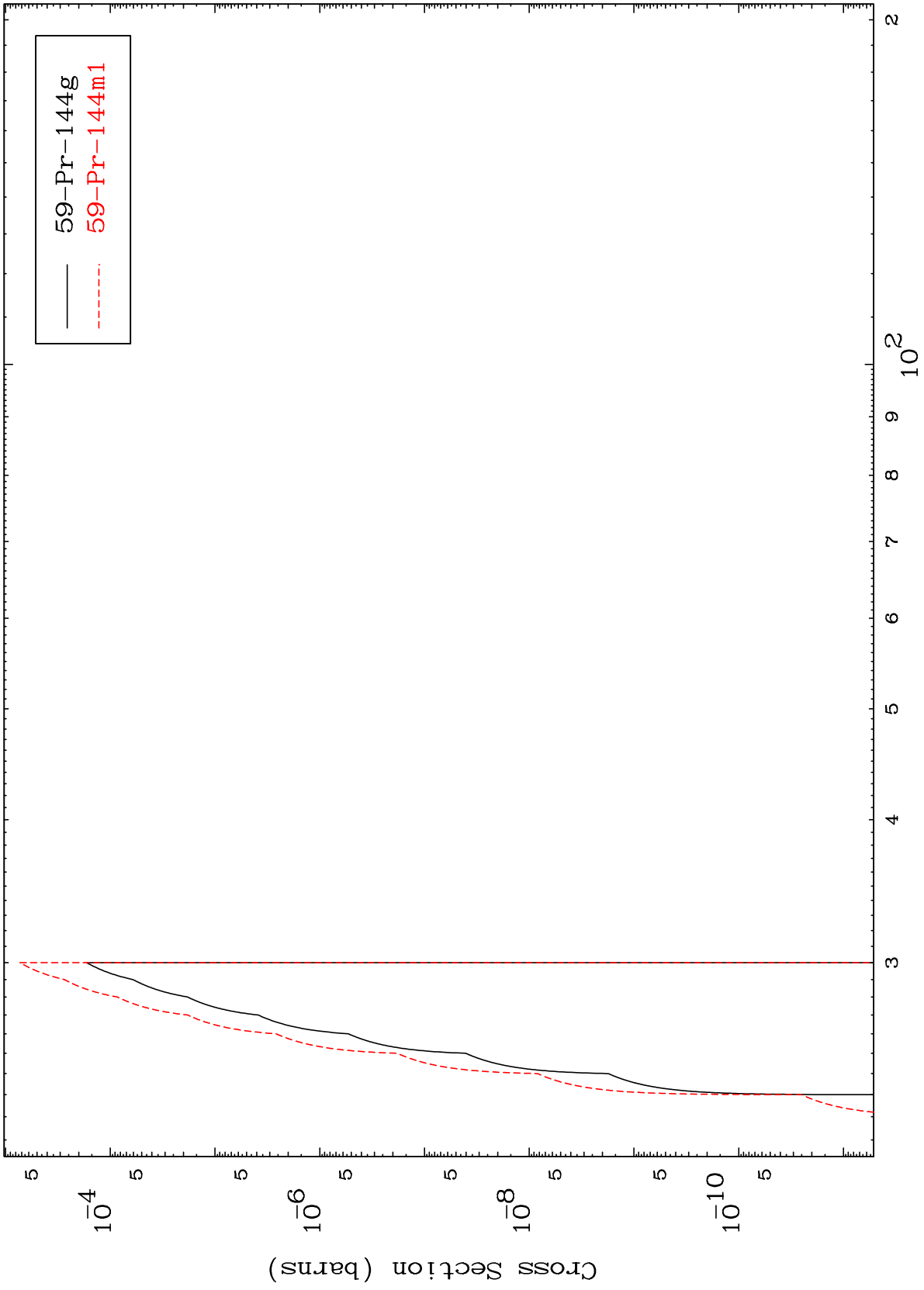
⁶⁰Nd-147

MAT 6040

(n,3n) p

⁶⁰Nd-147

Radionuclide Production Cross Section



59-Pr-144g
59-Pr-144m1

142

Incident Energy (MeV)

⁶⁰Nd-147