

Program EVALPLOT
(Version 2018-1)

by

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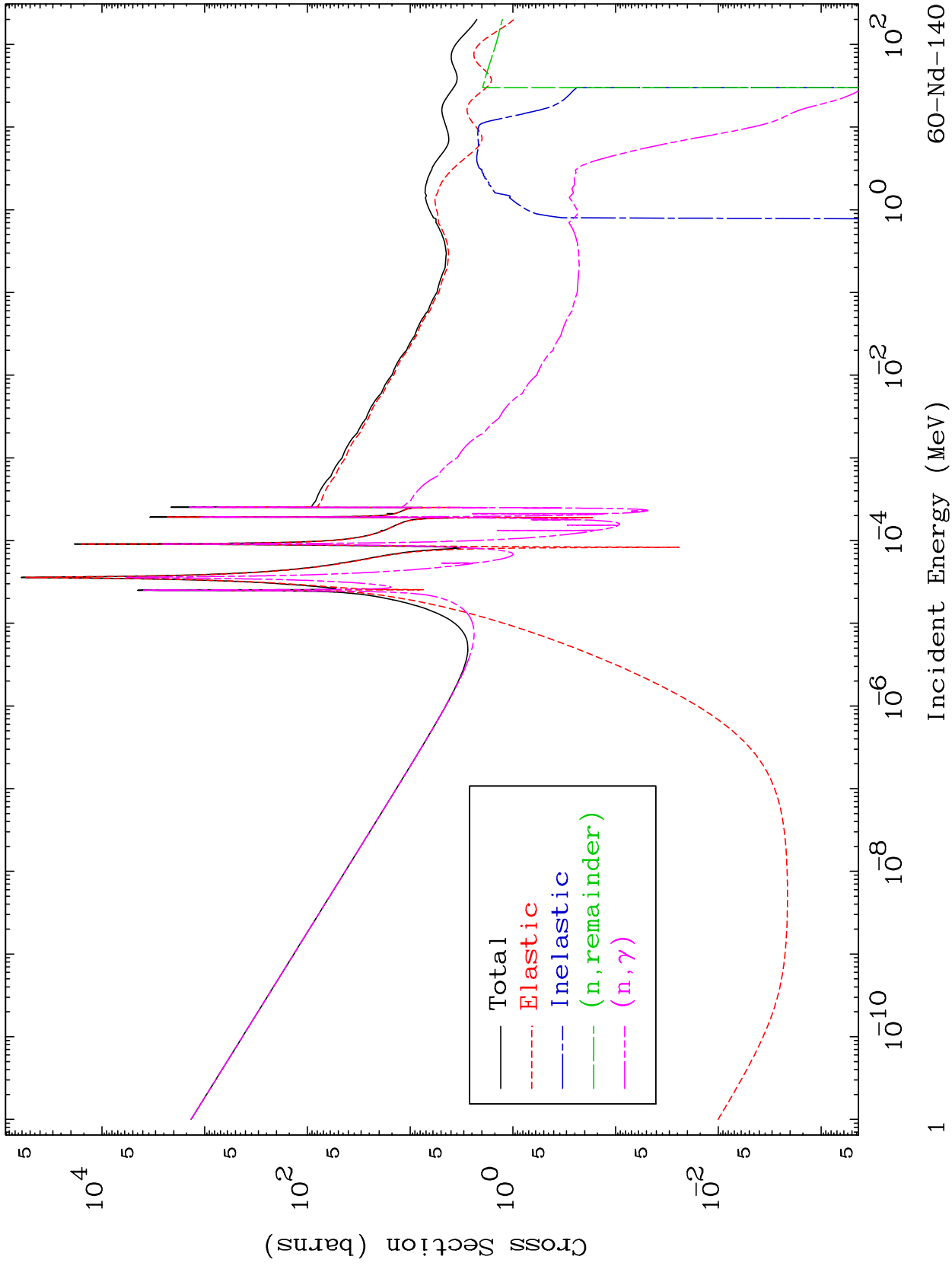
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6019

Major
293 Kelvin Cross Sections

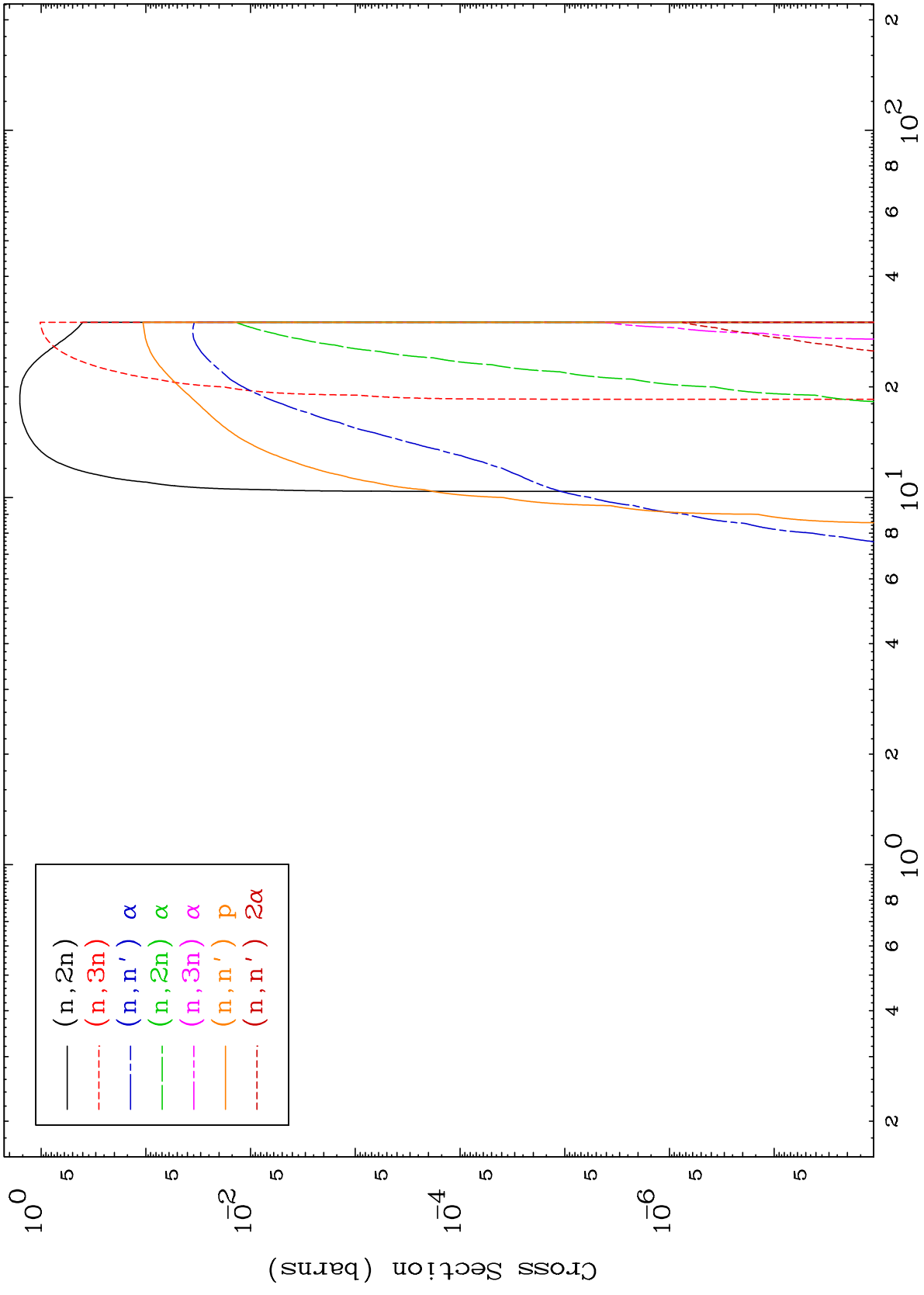
60-Nd-140



MAT 6019

Neutron Production
293 Kelvin Cross Sections

60-Nd-140



2

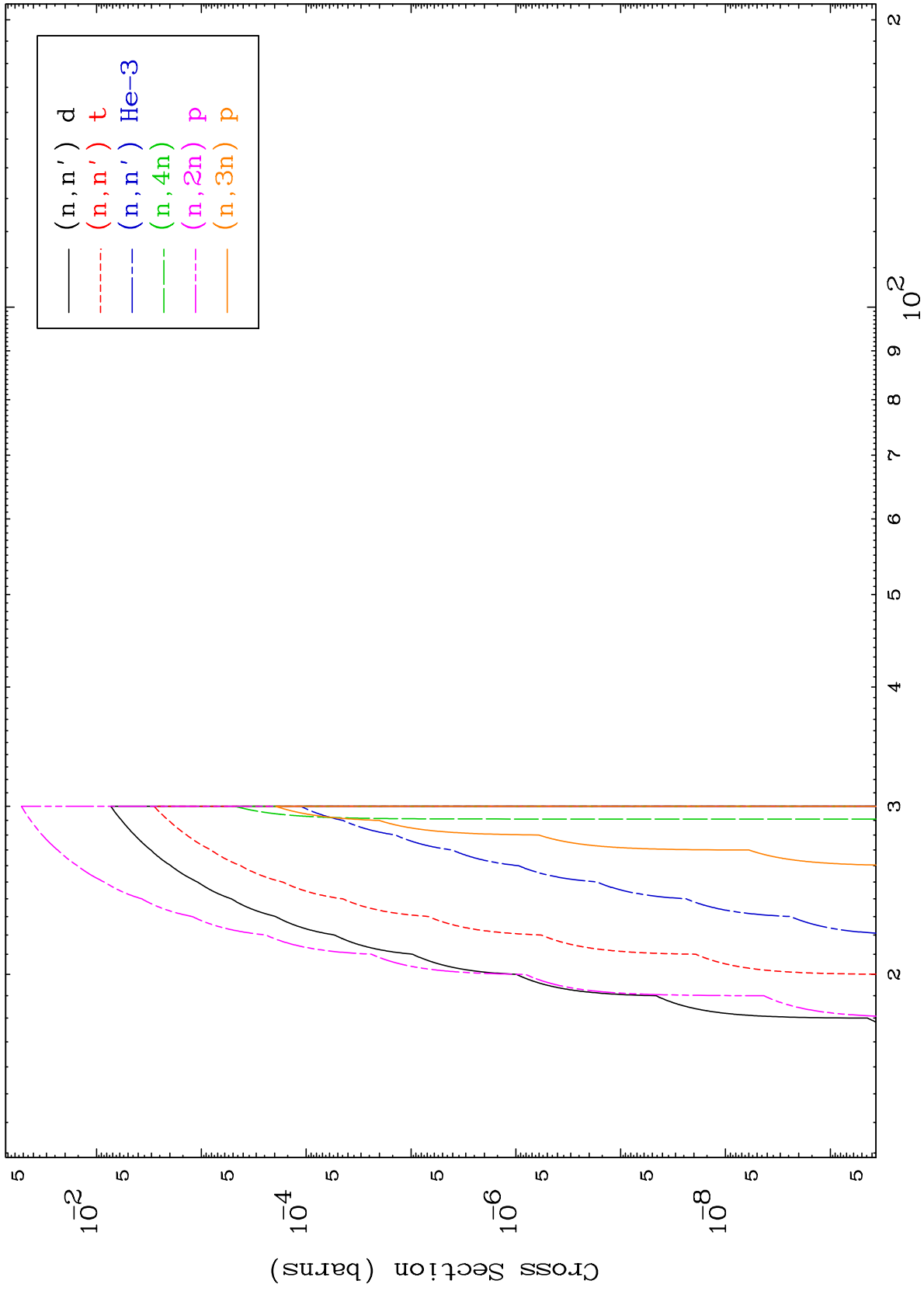
Incident Energy (MeV)

60-Nd-140

MAT 6019

Neutron Production
293 Kelvin Cross Sections

60-Nd-140



3

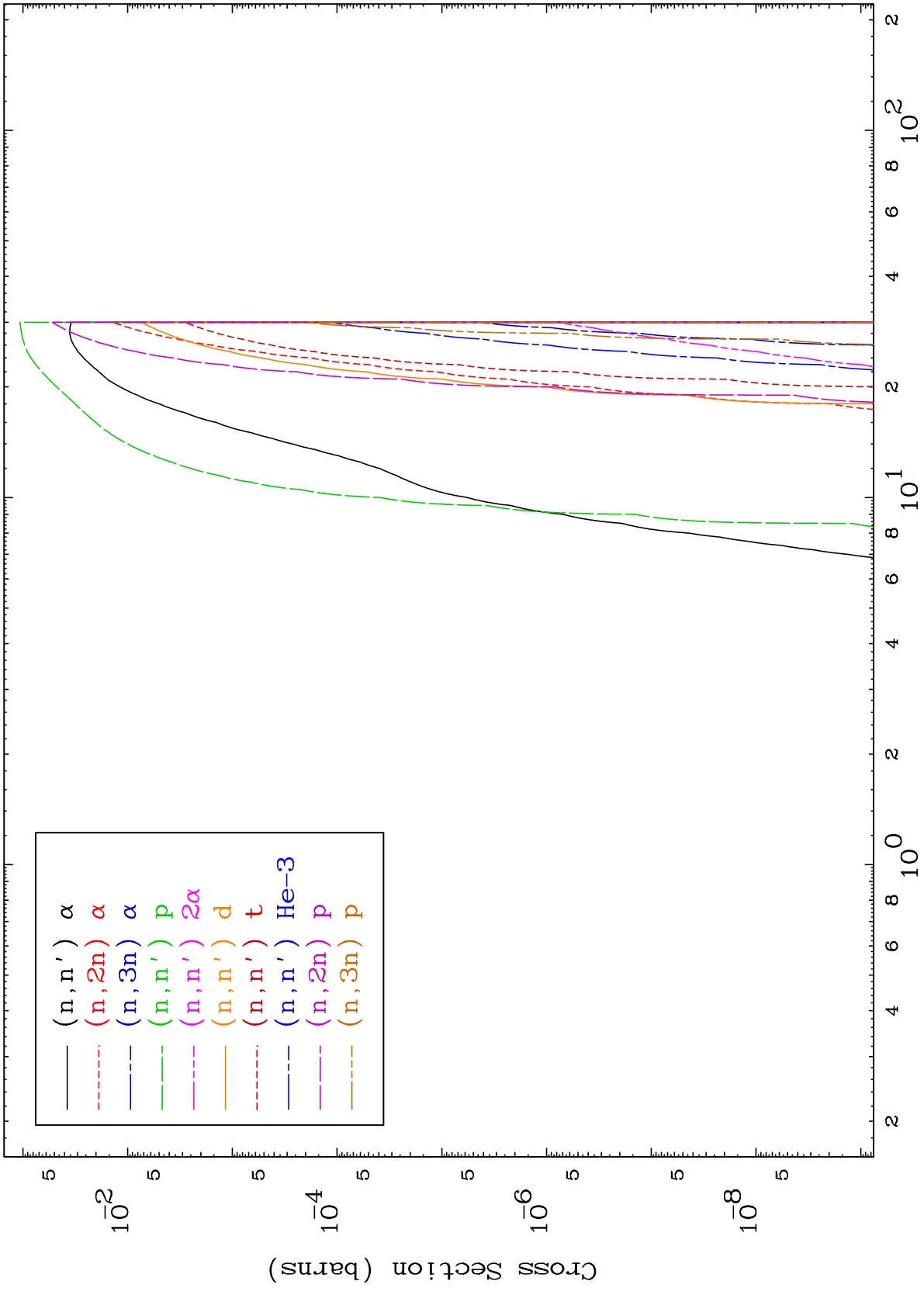
Incident Energy (MeV)

60-Nd-140

MAT 6019

293 Kelvin Cross Sections

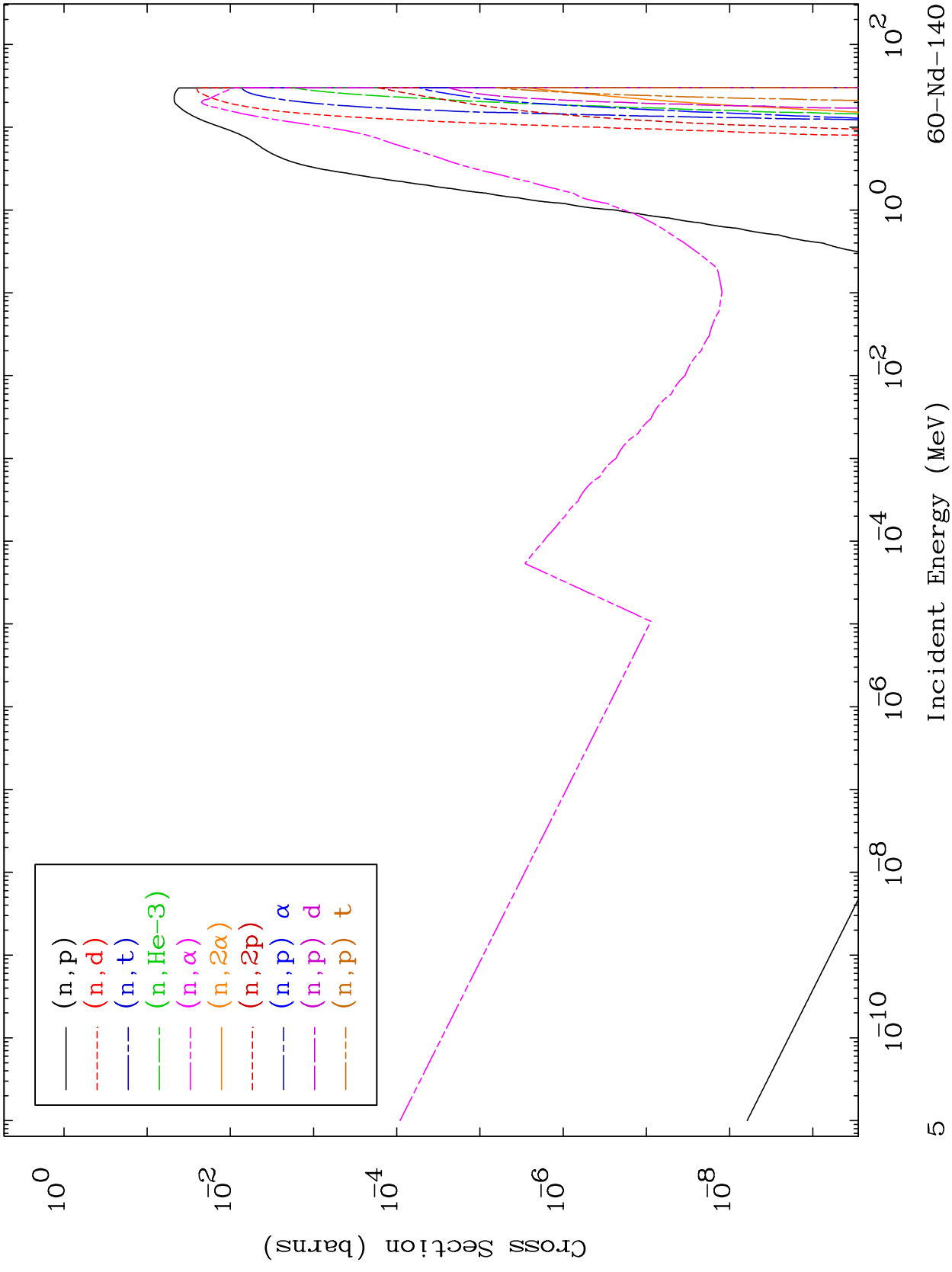
60-Nd-140



MAT 6019

293 Kelvin Cross Sections

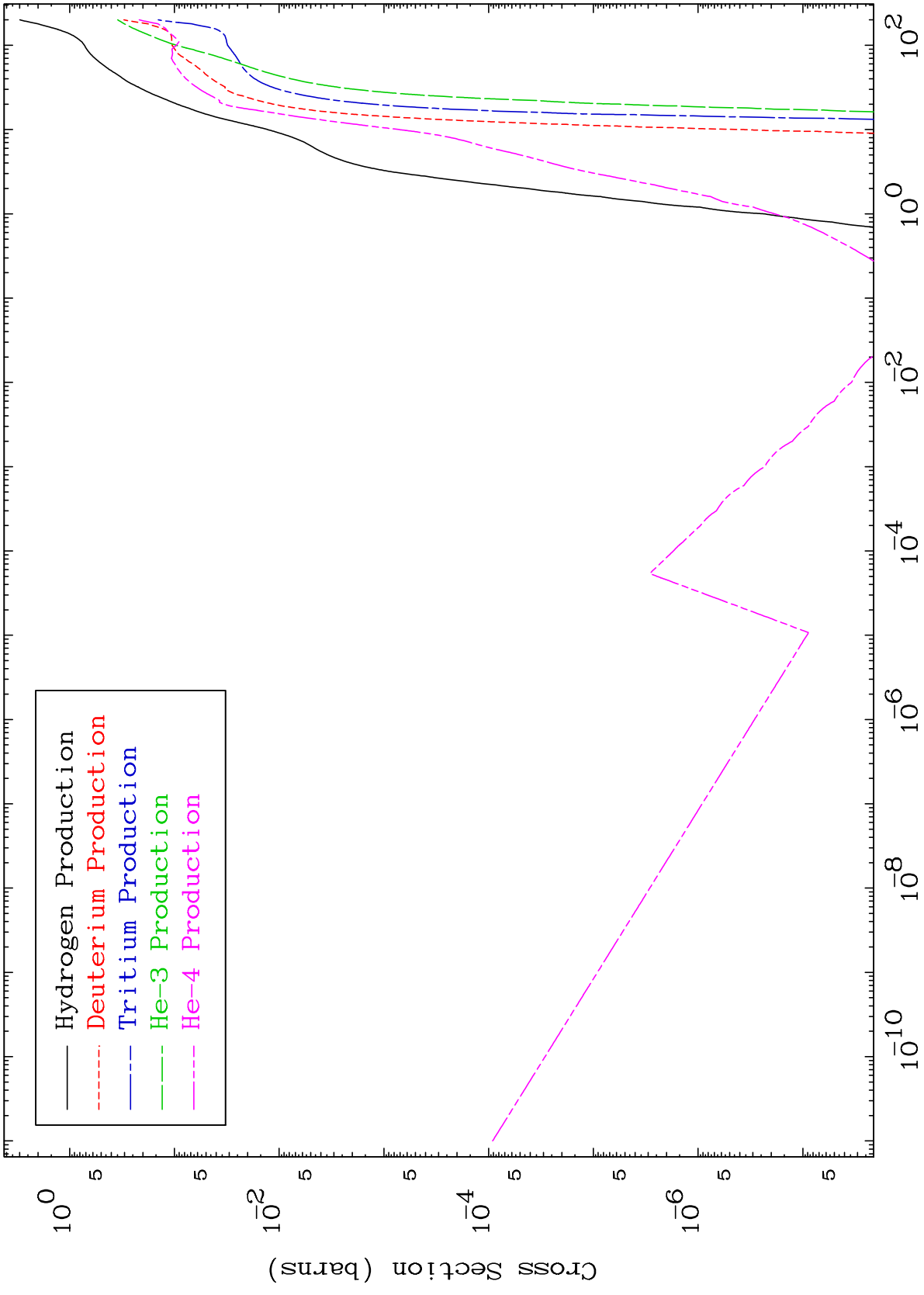
60-Nd-140



MAT 6019

Particle Production
293 Kelvin Cross Sections

60-Nd-140



6

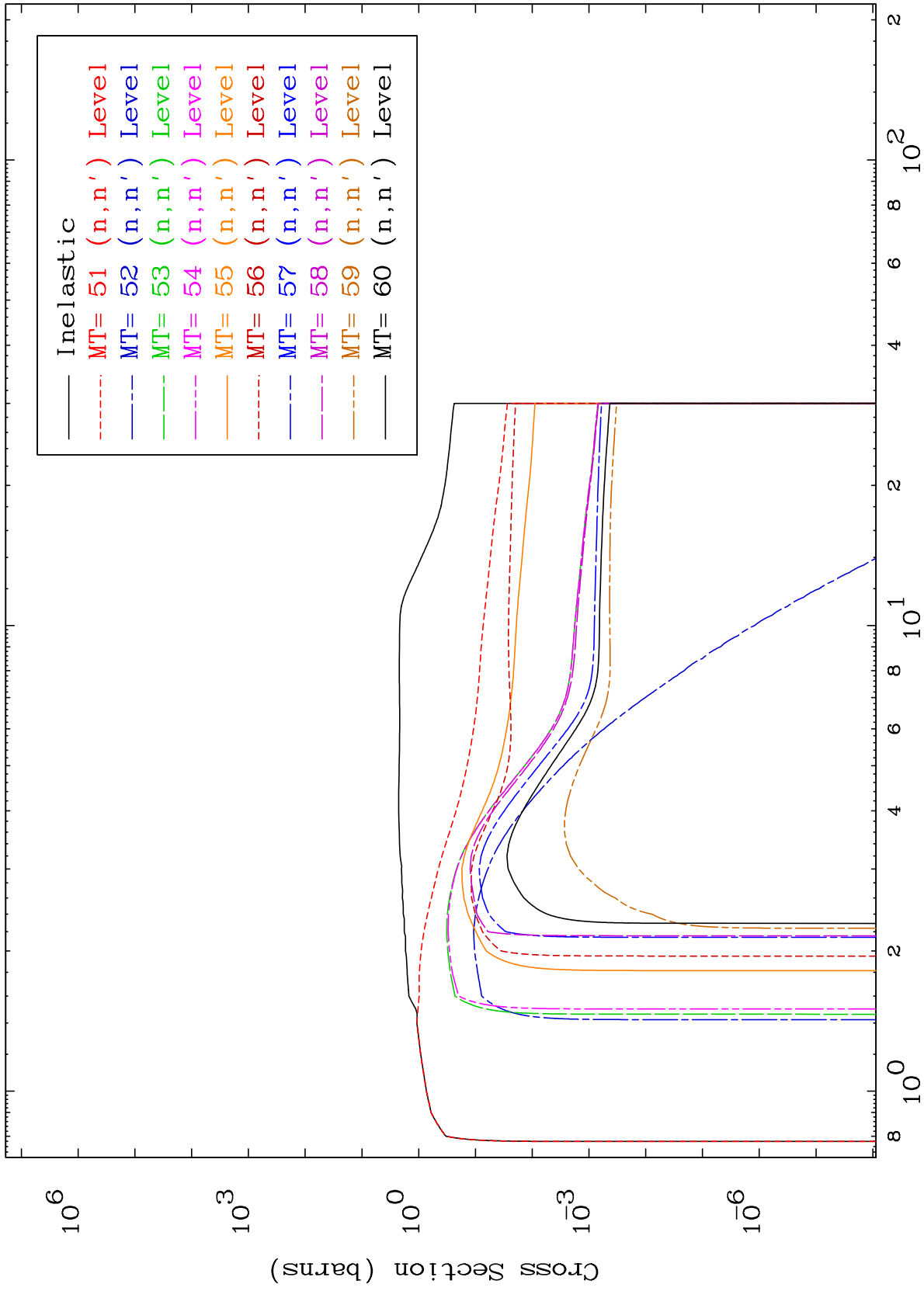
60-Nd-140

MAT 6019

(n,n') Level

60-Nd-140

293 Kelvin Cross Sections



7

Incident Energy (MeV)

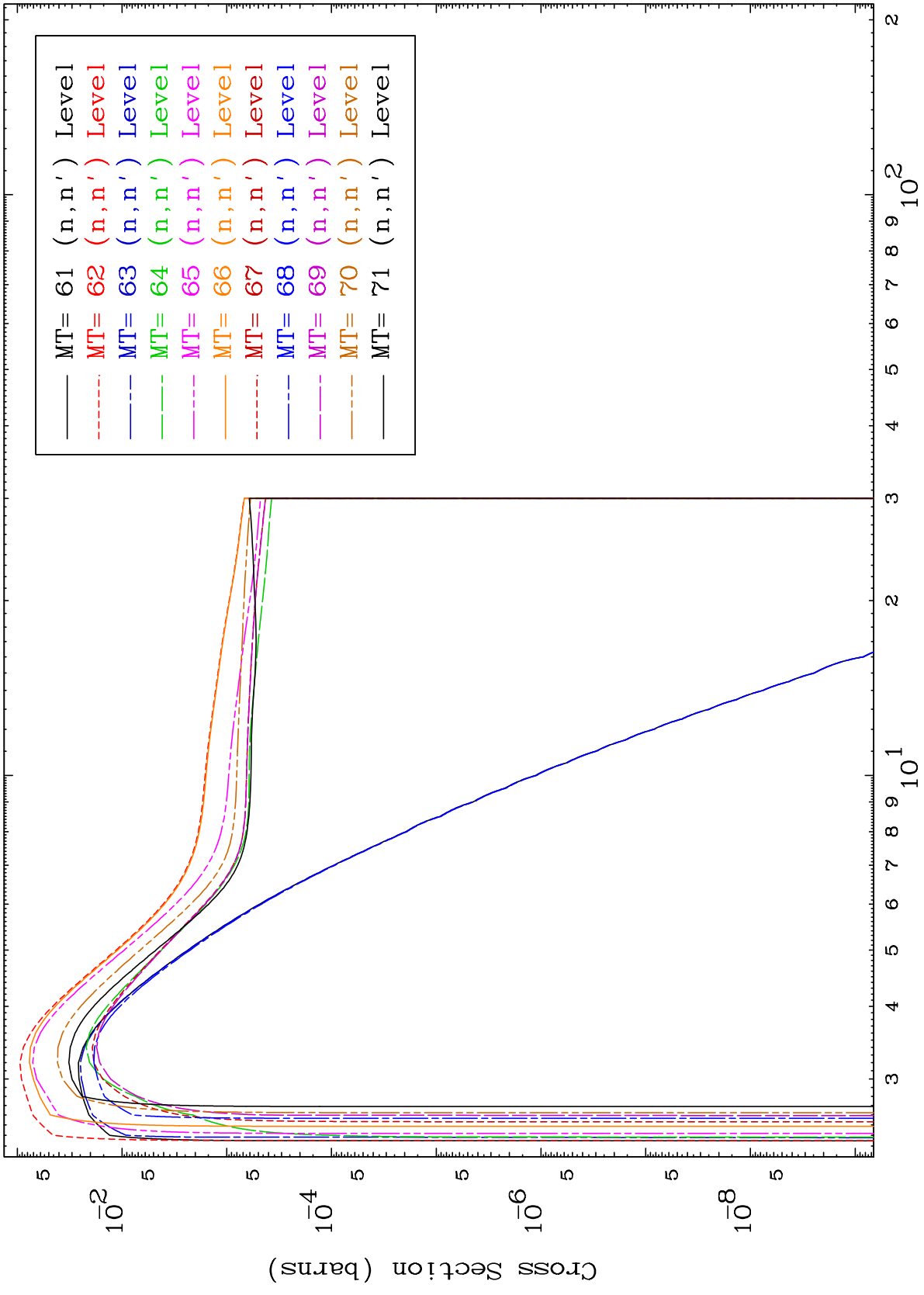
60-Nd-140

MAT 6019

(n,n') Level

60-Nd-140

293 Kelvin Cross Sections



8

Incident Energy (MeV)

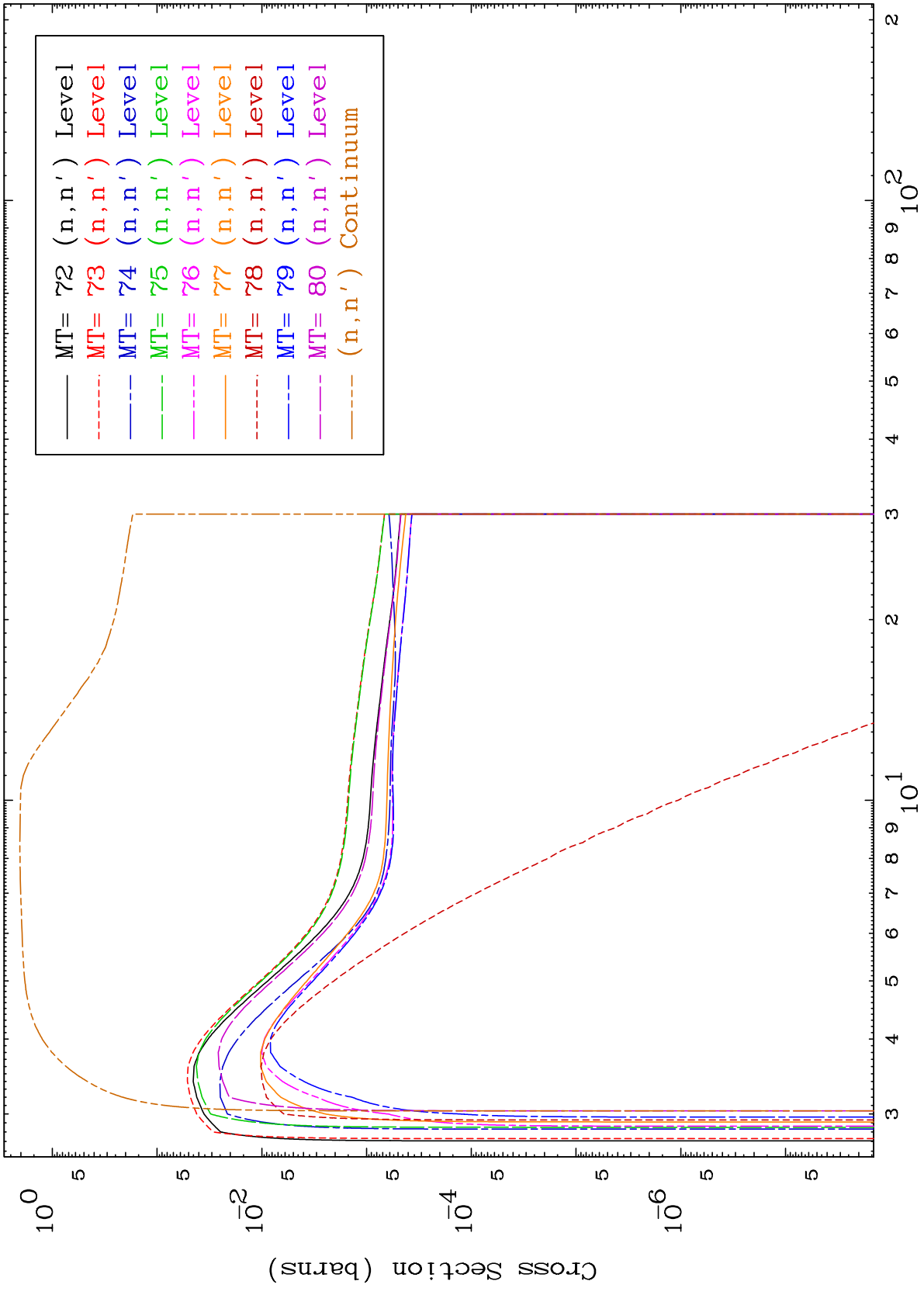
60-Nd-140

MAT 6019

(n,n') Level

60-Nd-140

293 Kelvin Cross Sections



9

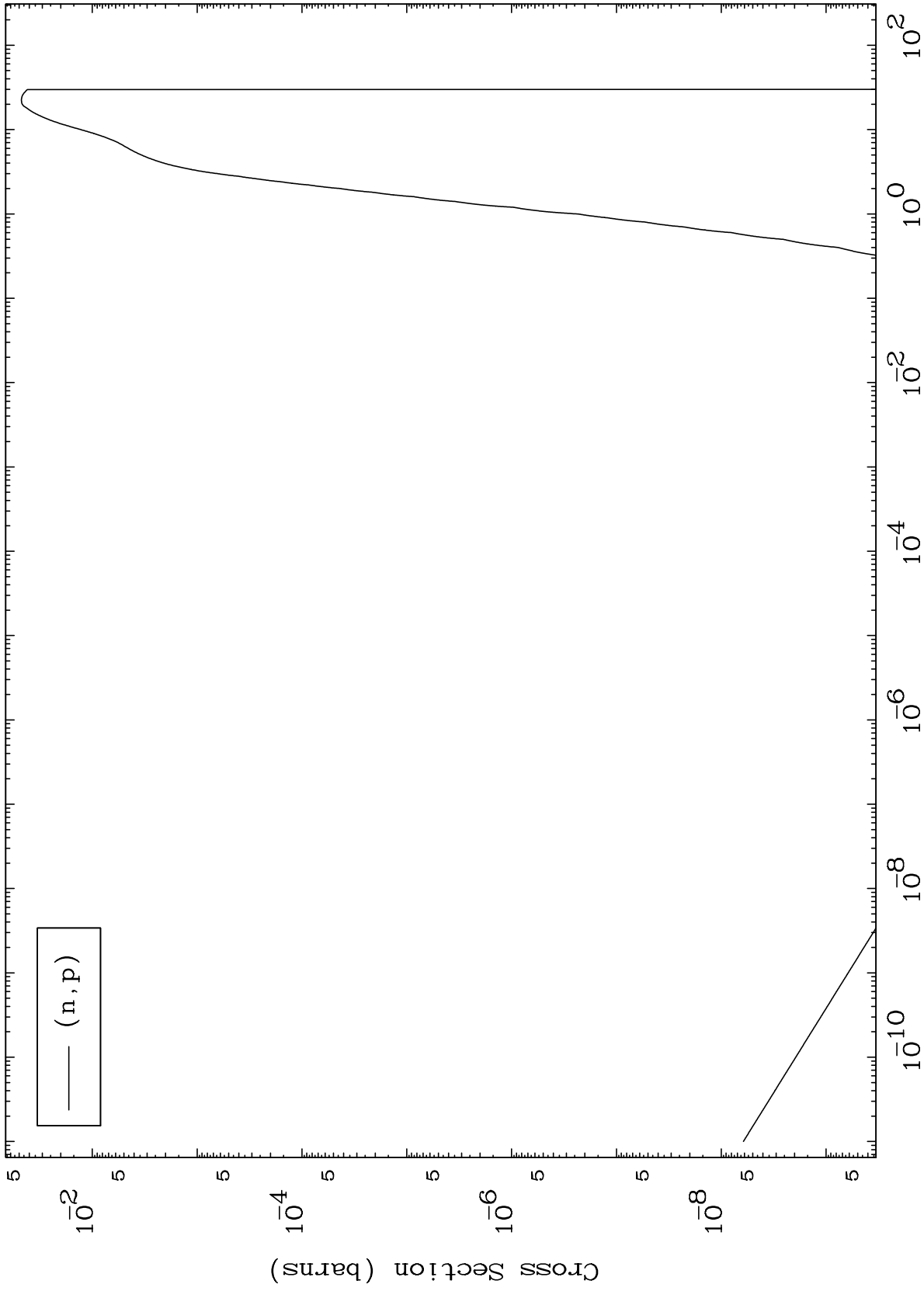
Incident Energy (MeV)

60-Nd-140

MAT 6019

(n,p) Levels
293 Kelvin Cross Sections

60-Nd-140



10

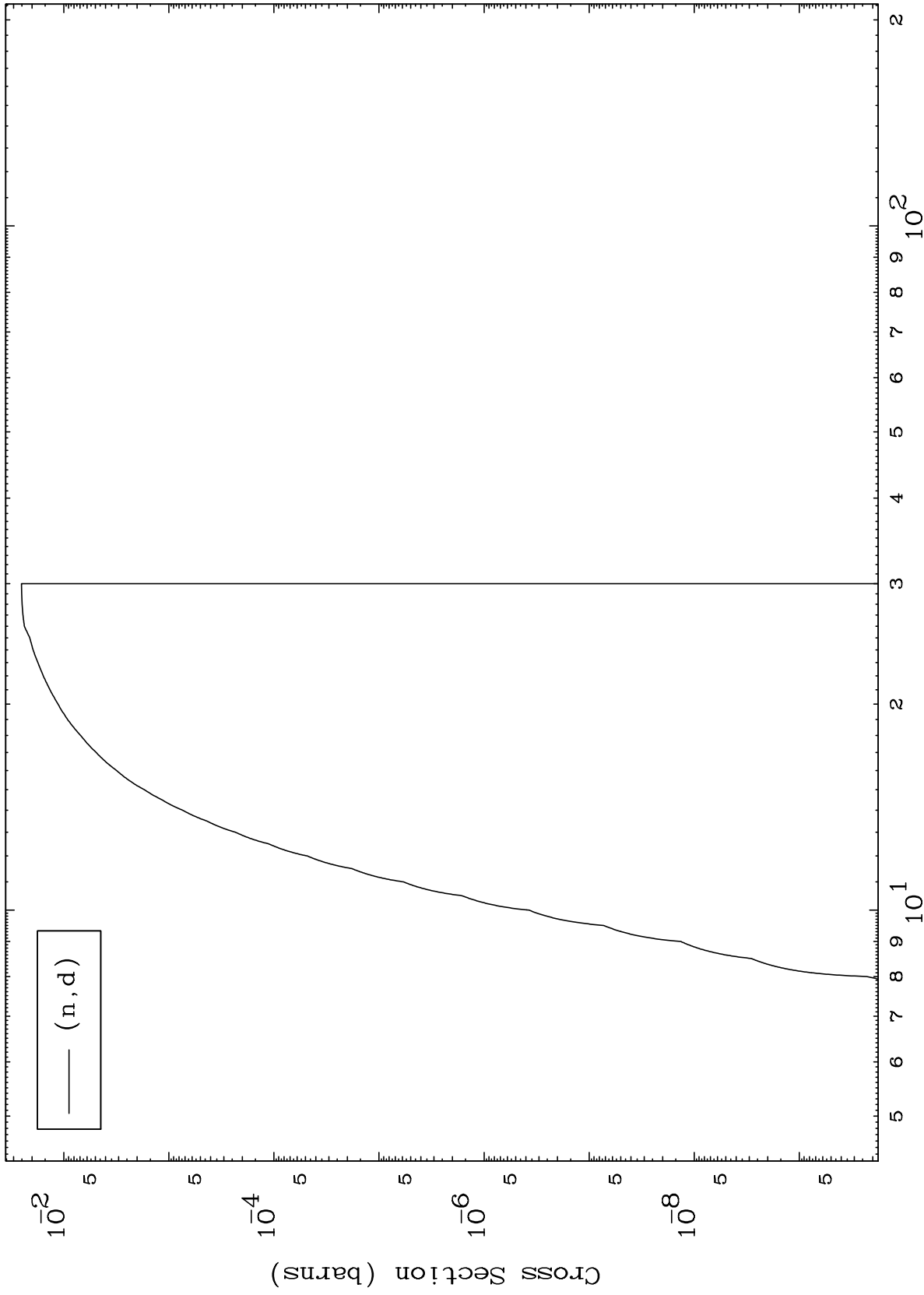
Incident Energy (MeV)

60-Nd-140

MAT 6019

(n,d) Levels
293 Kelvin Cross Sections

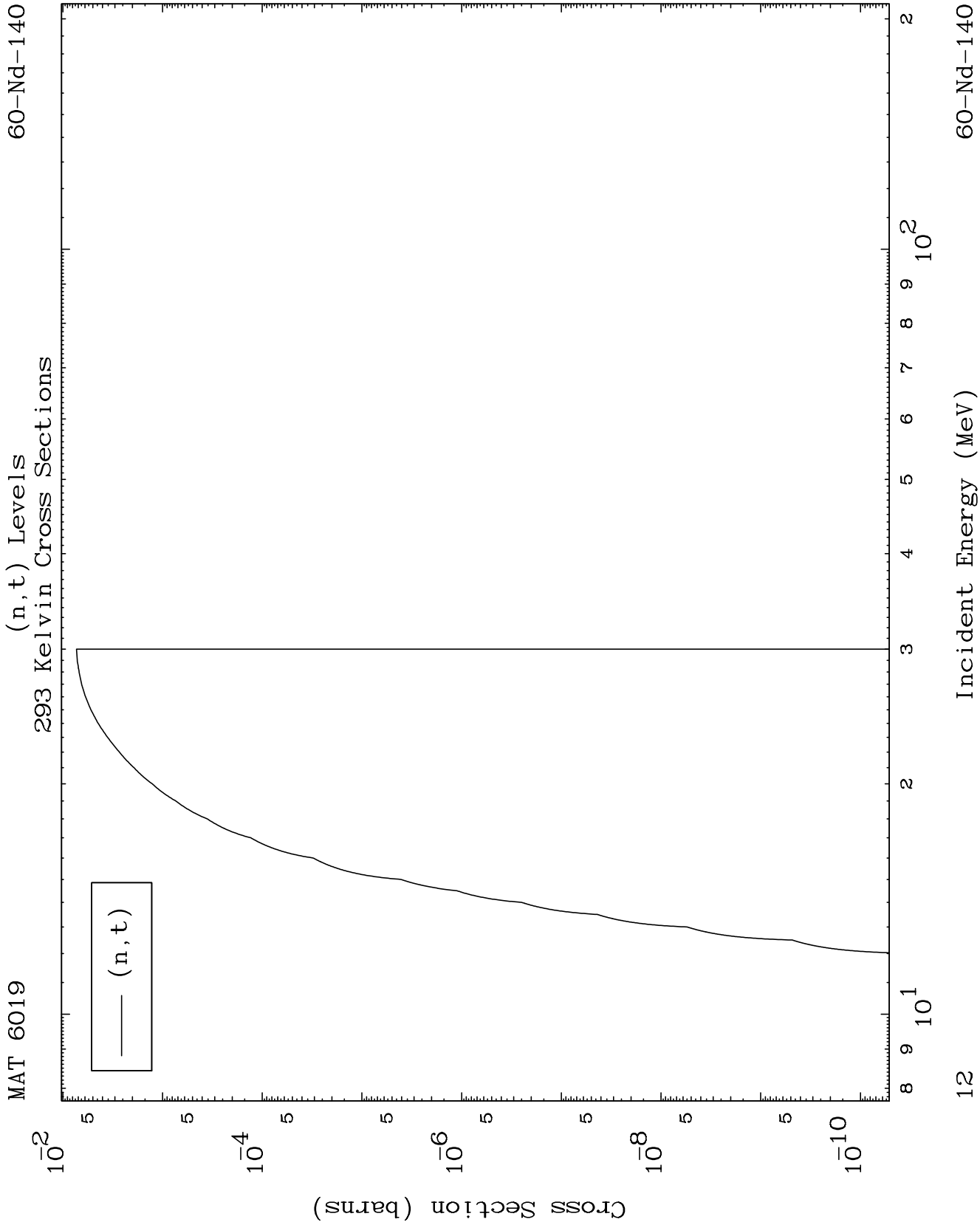
60-Nd-140



11

Incident Energy (MeV)

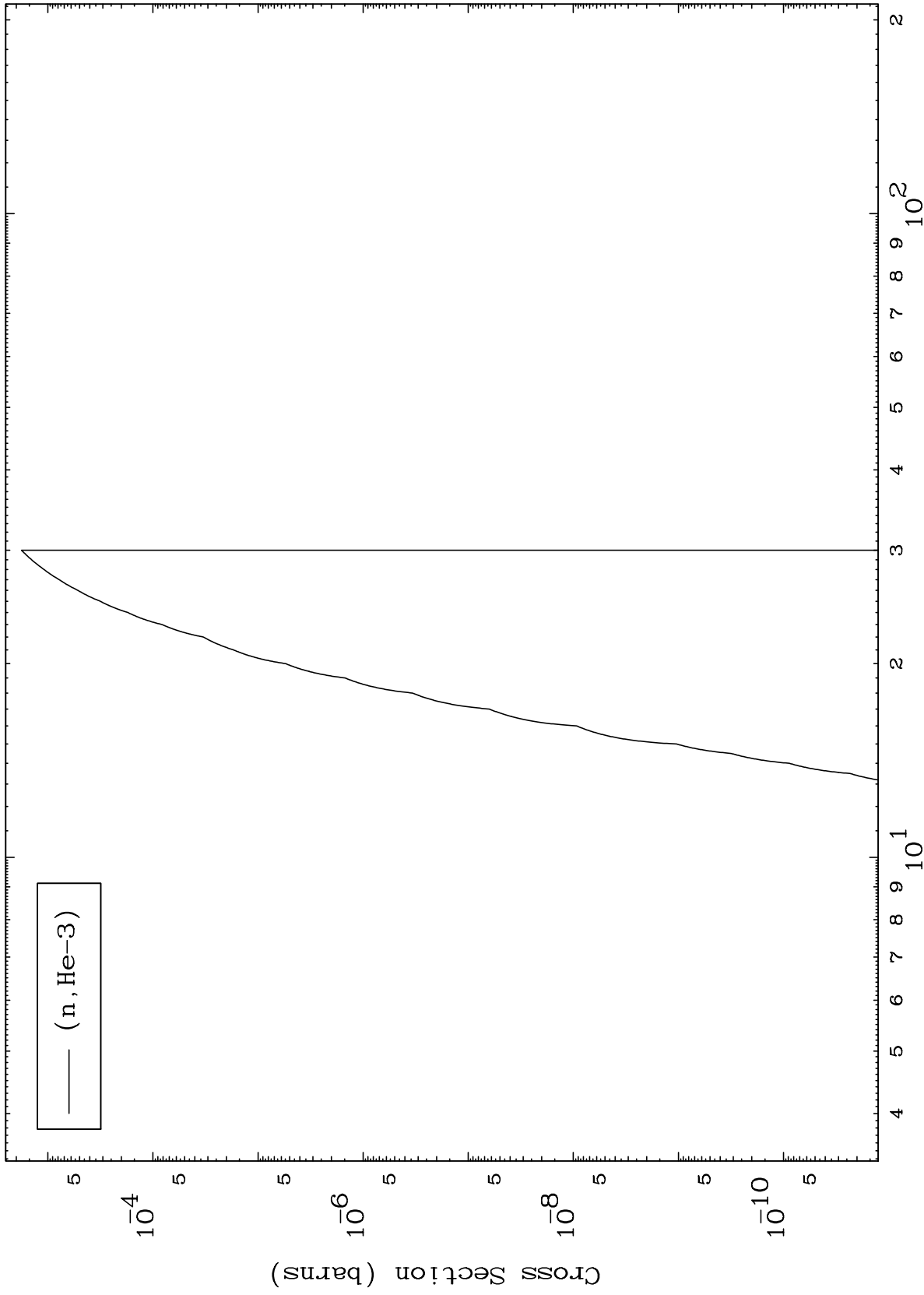
60-Nd-140



MAT 6019

(n,He3) Levels
293 Kelvin Cross Sections

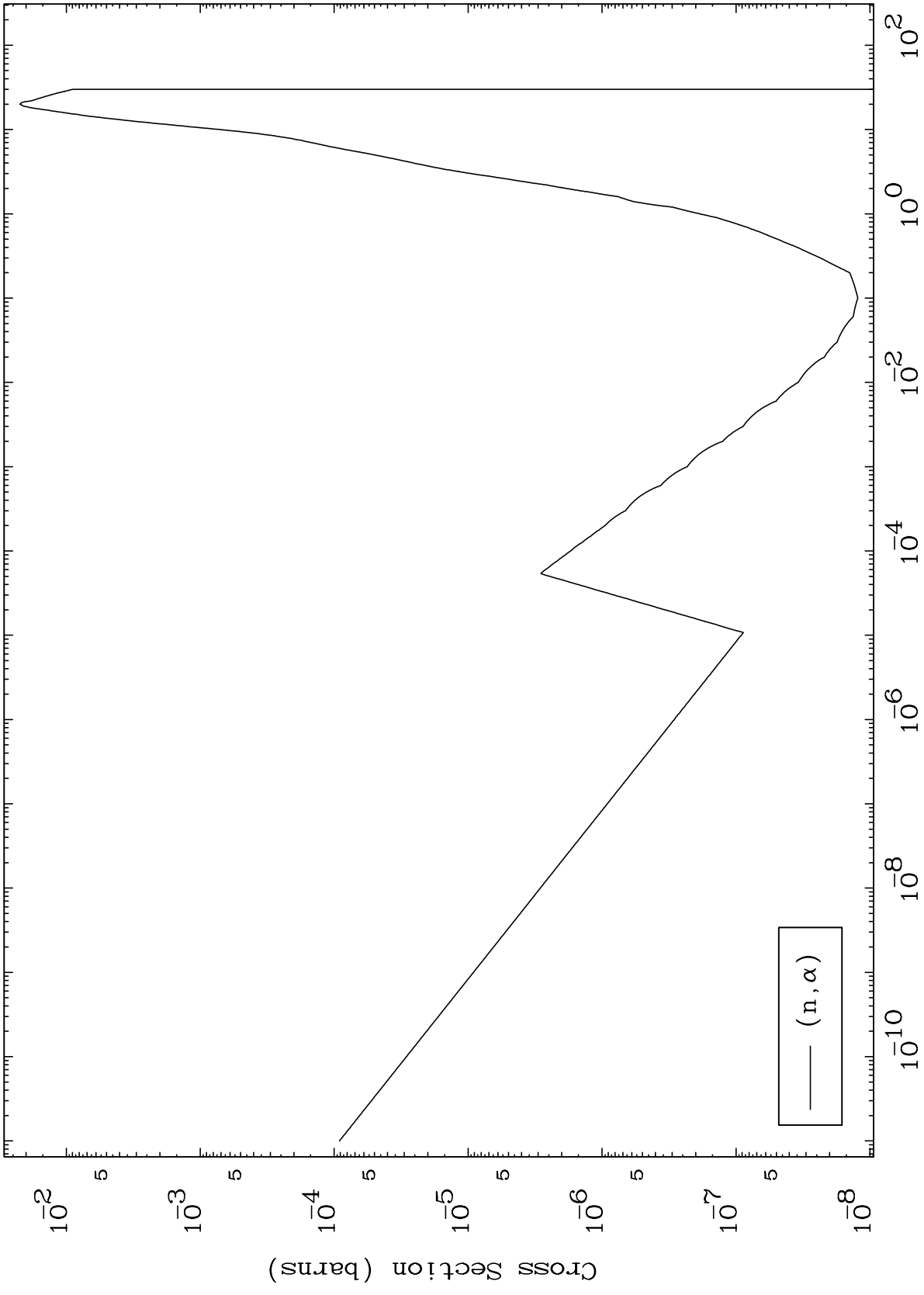
60-Nd-140



MAT 6019

(n,α) Levels
293 Kelvin Cross Sections

60-Nd-140

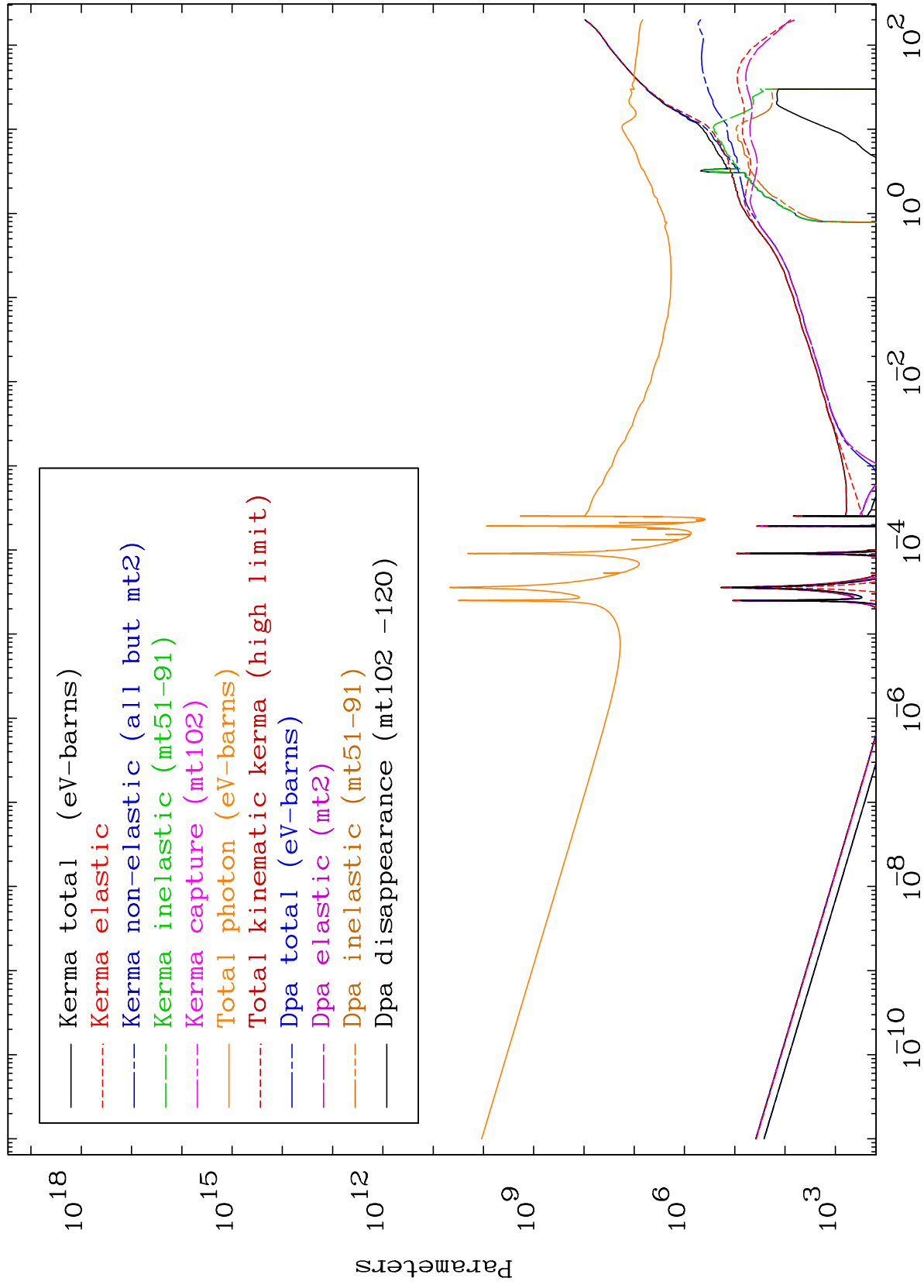


14

Incident Energy (MeV)

60-Nd-140

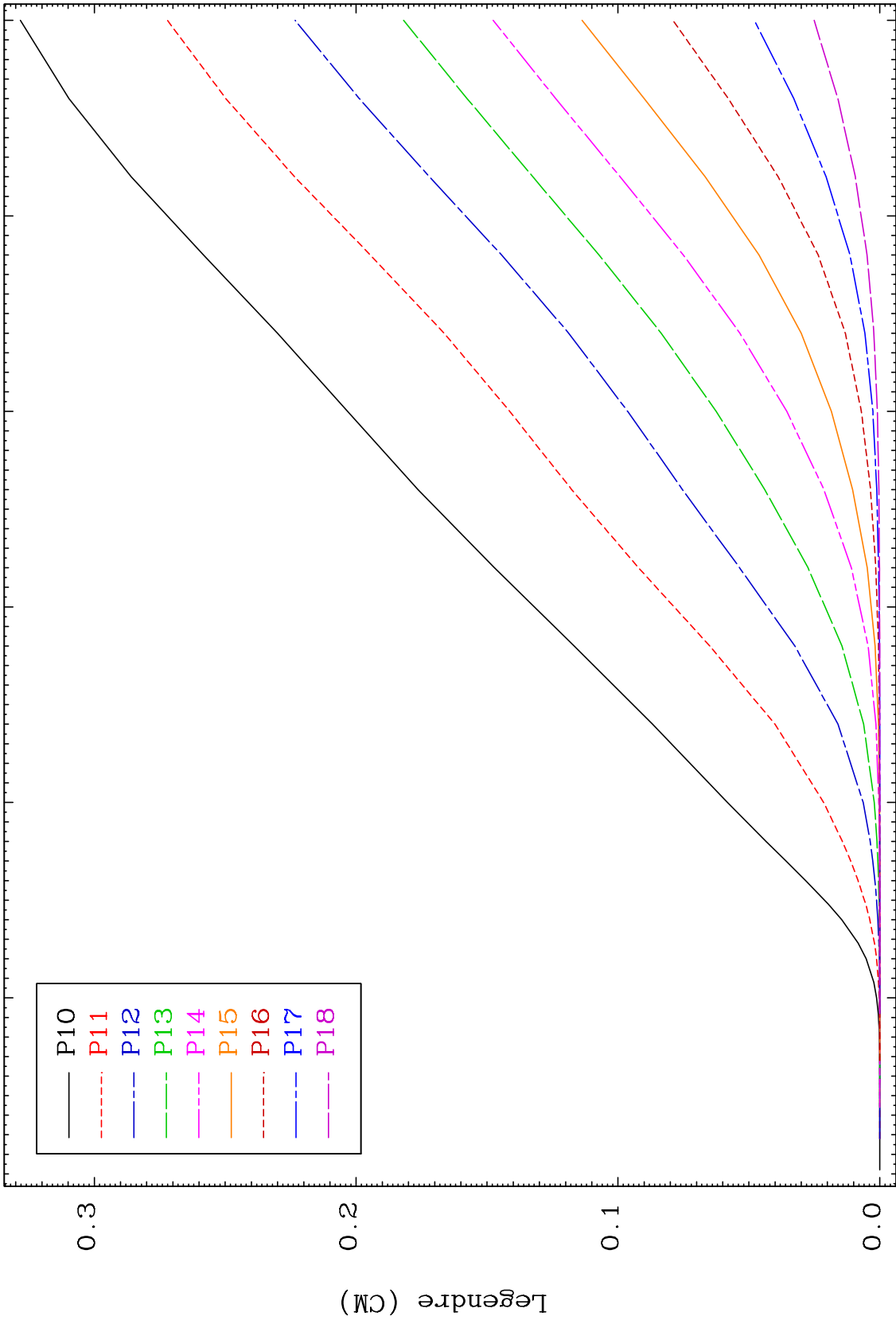
— (n,α)



MAT 6019

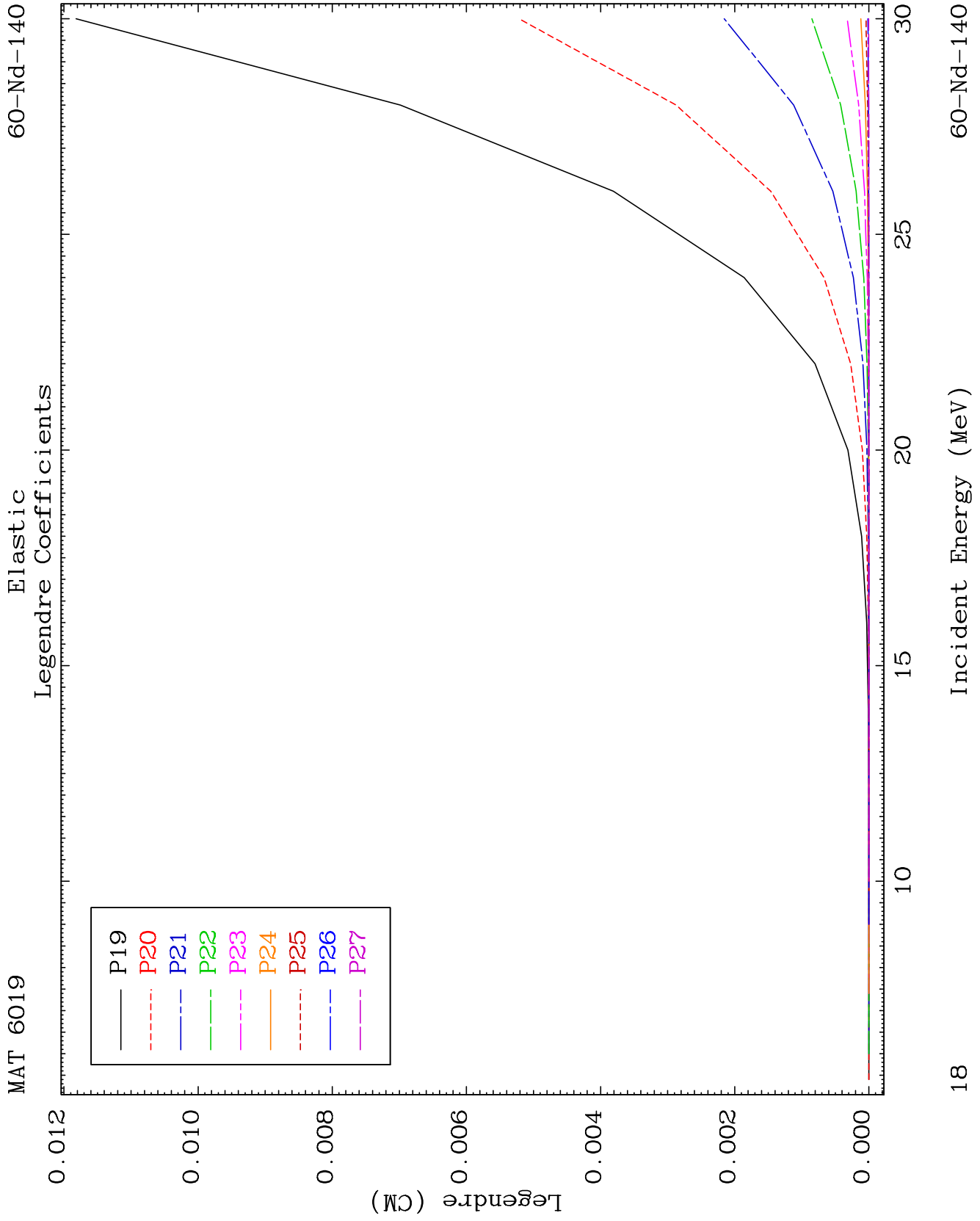
Elastic Legendre Coefficients

60-Nd-140



17

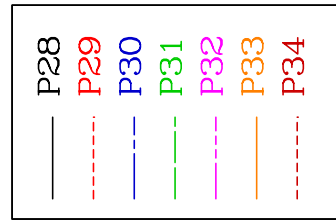
60-Nd-140



MAT 6019

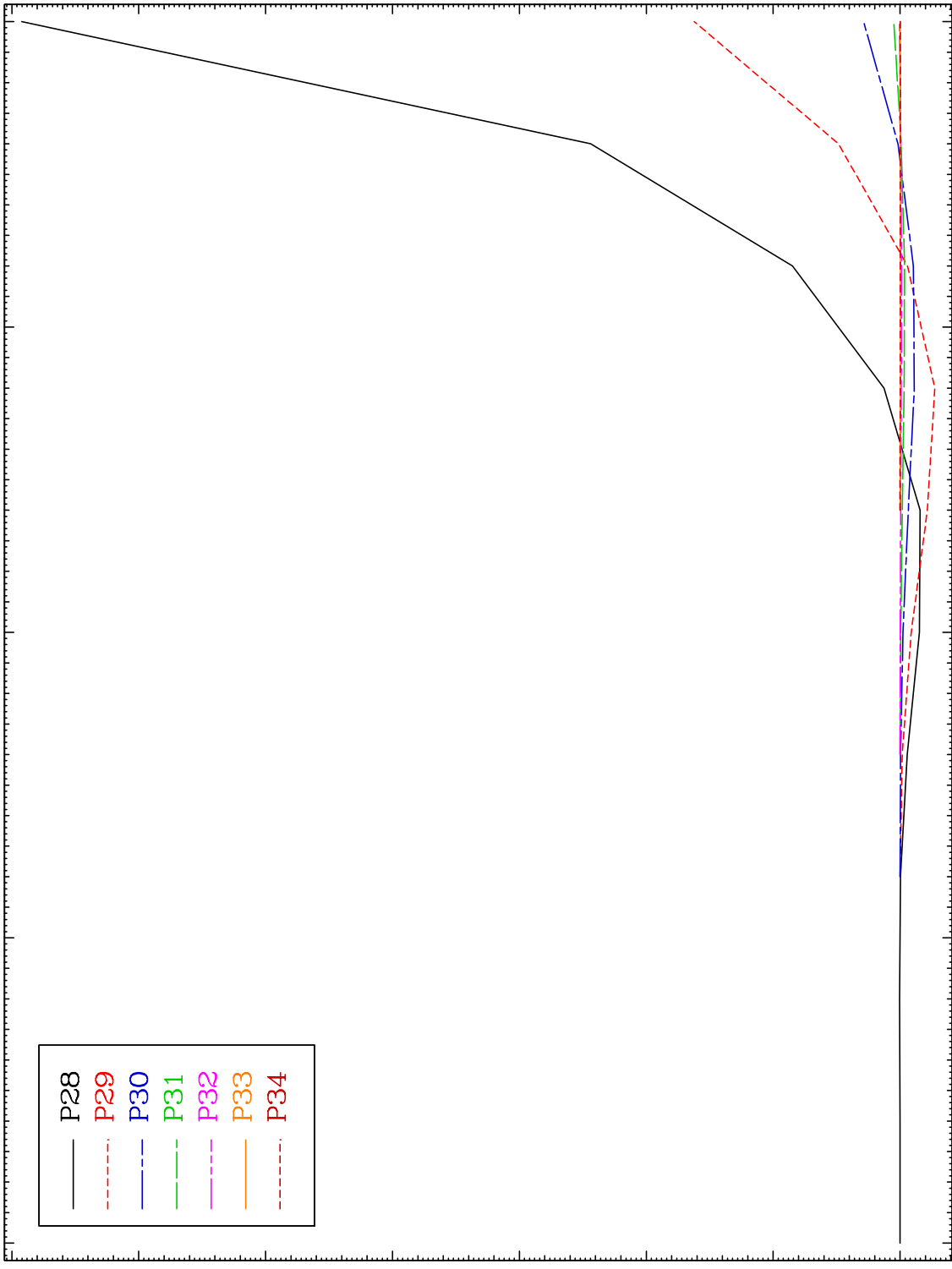
Elastic Legendre Coefficients

60-Nd-140



$\times 10^{-6}$

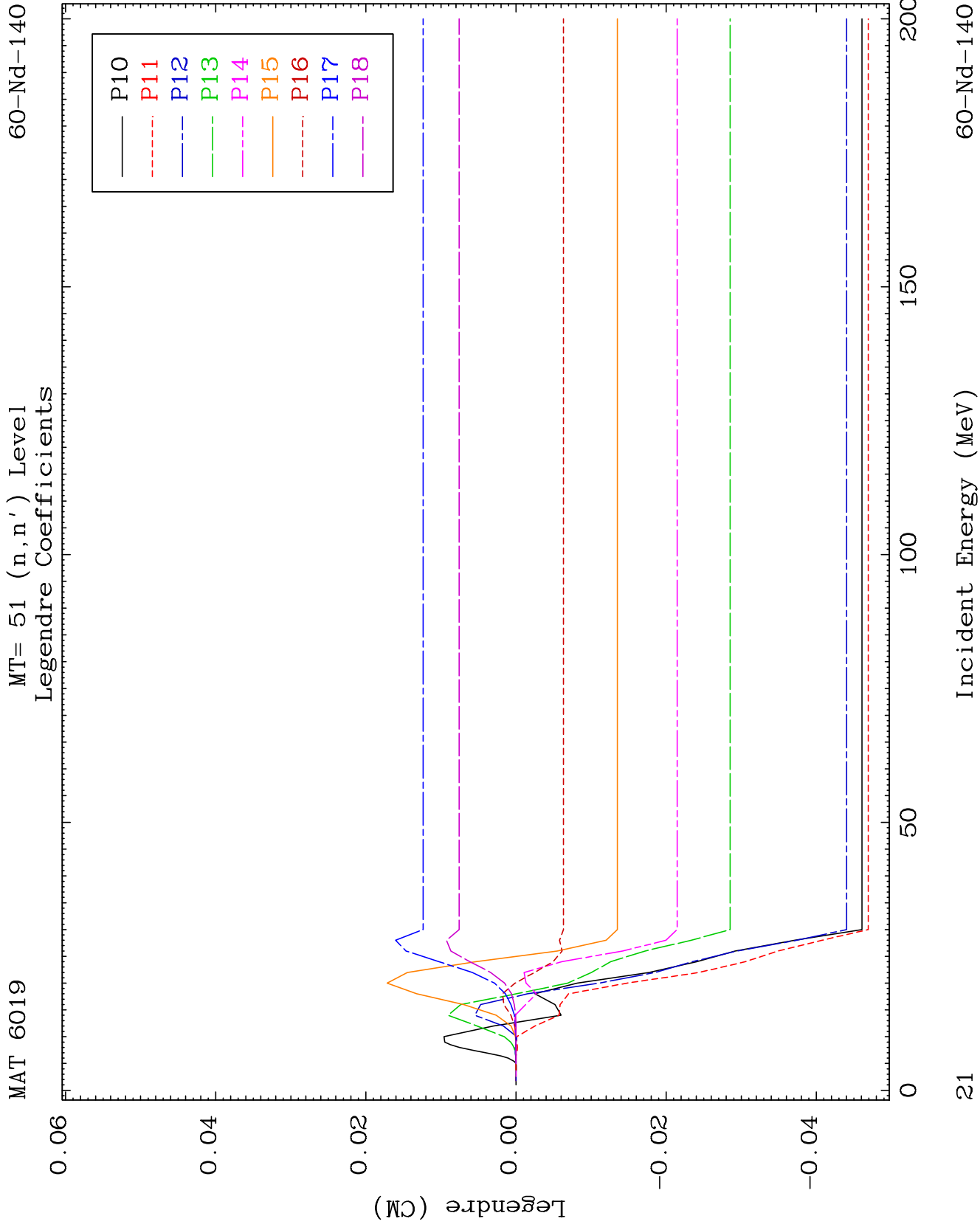
Legendre (CM)



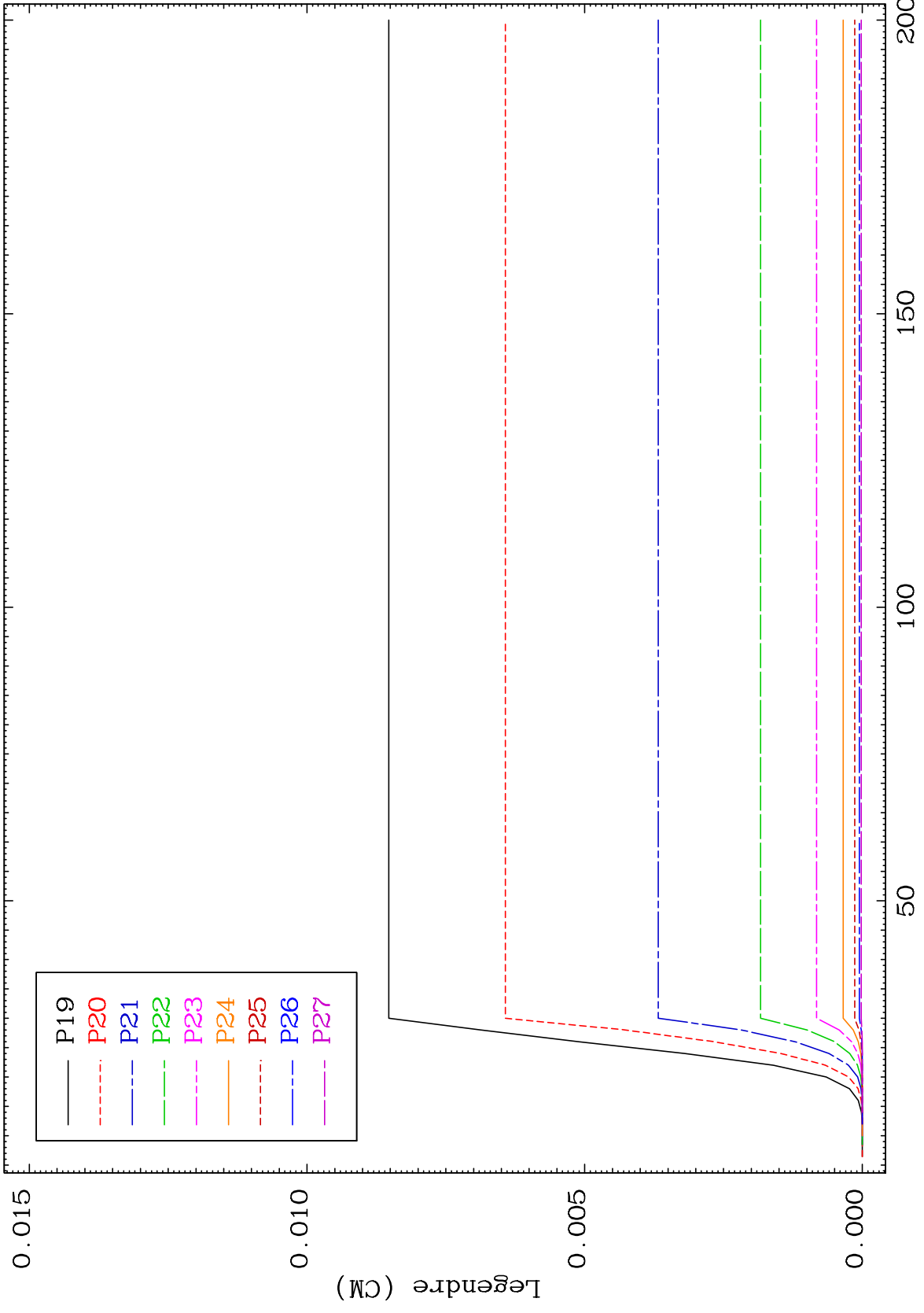
19

Incident Energy (MeV)

60-Nd-140



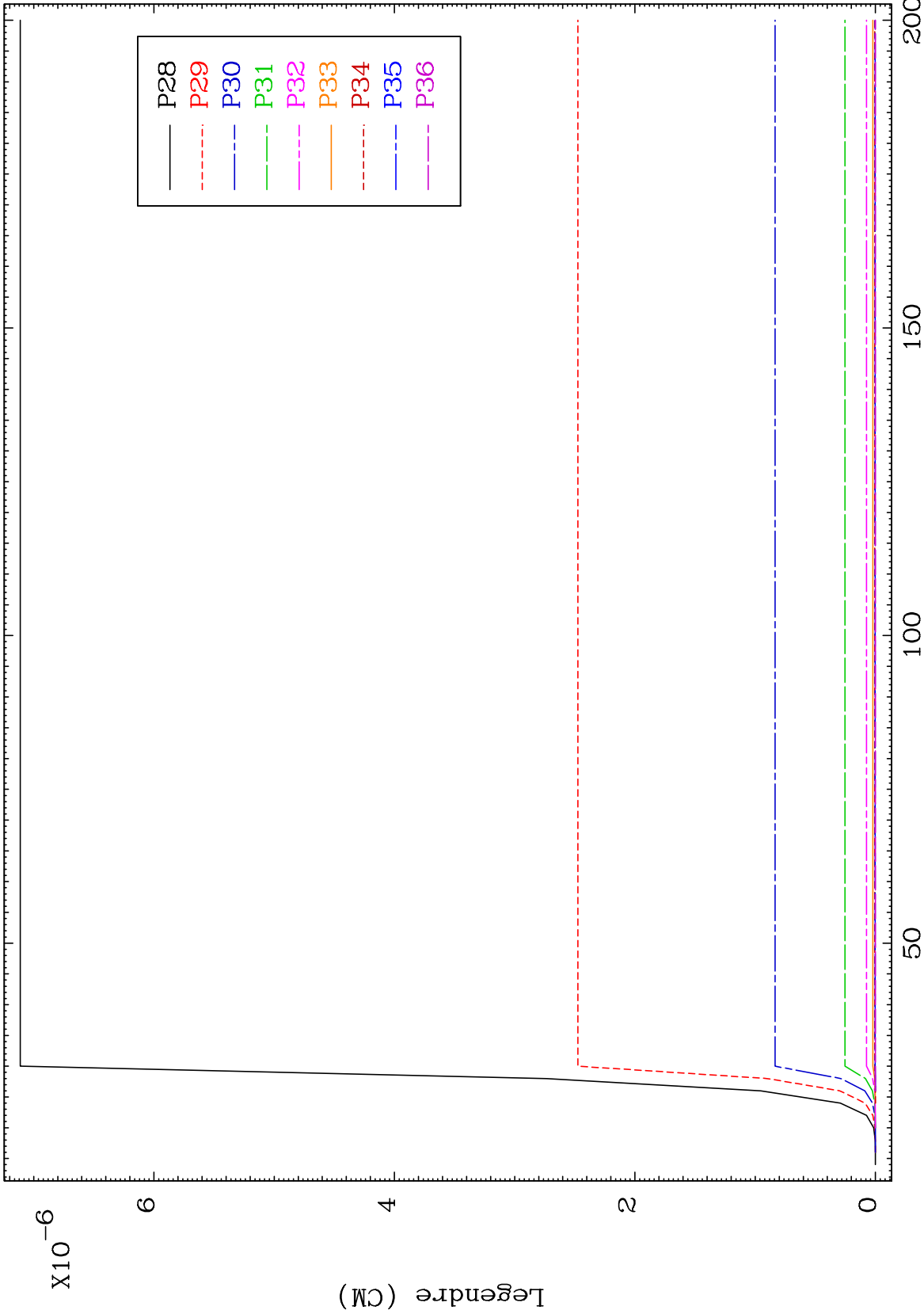
MAT 6019 MT= 51 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019

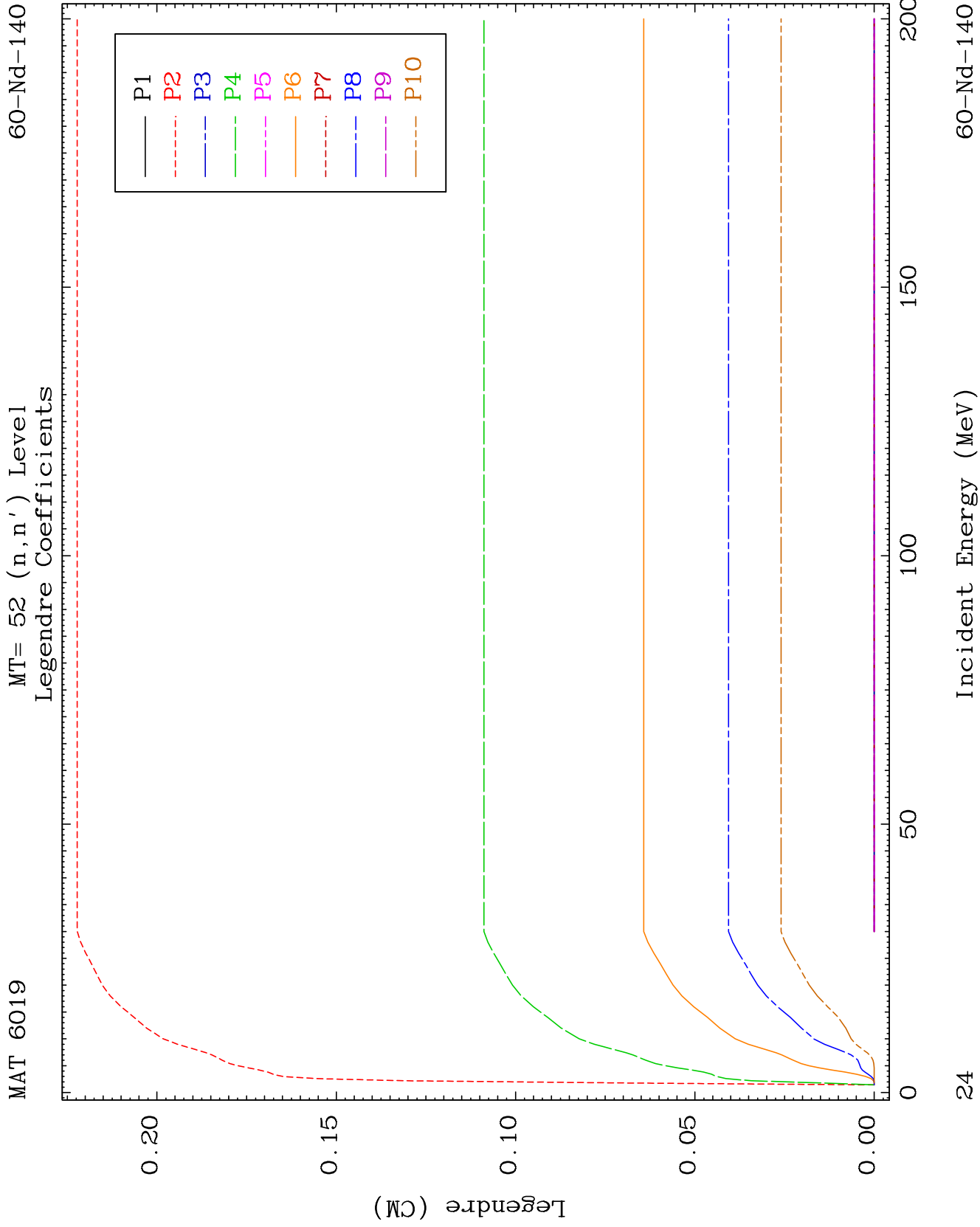
MT= 51 (n,n') Level
Legendre Coefficients

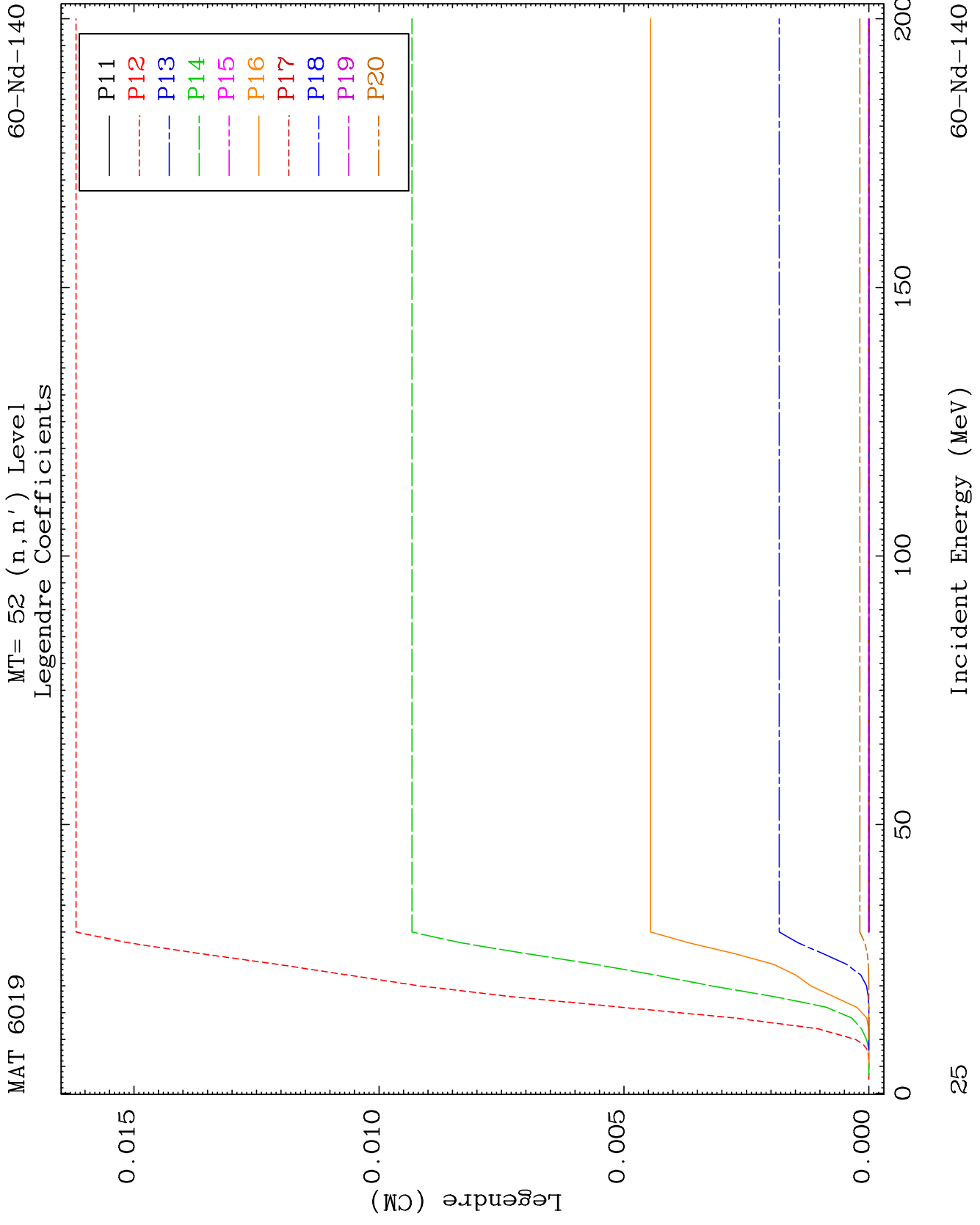
60-Nd-140



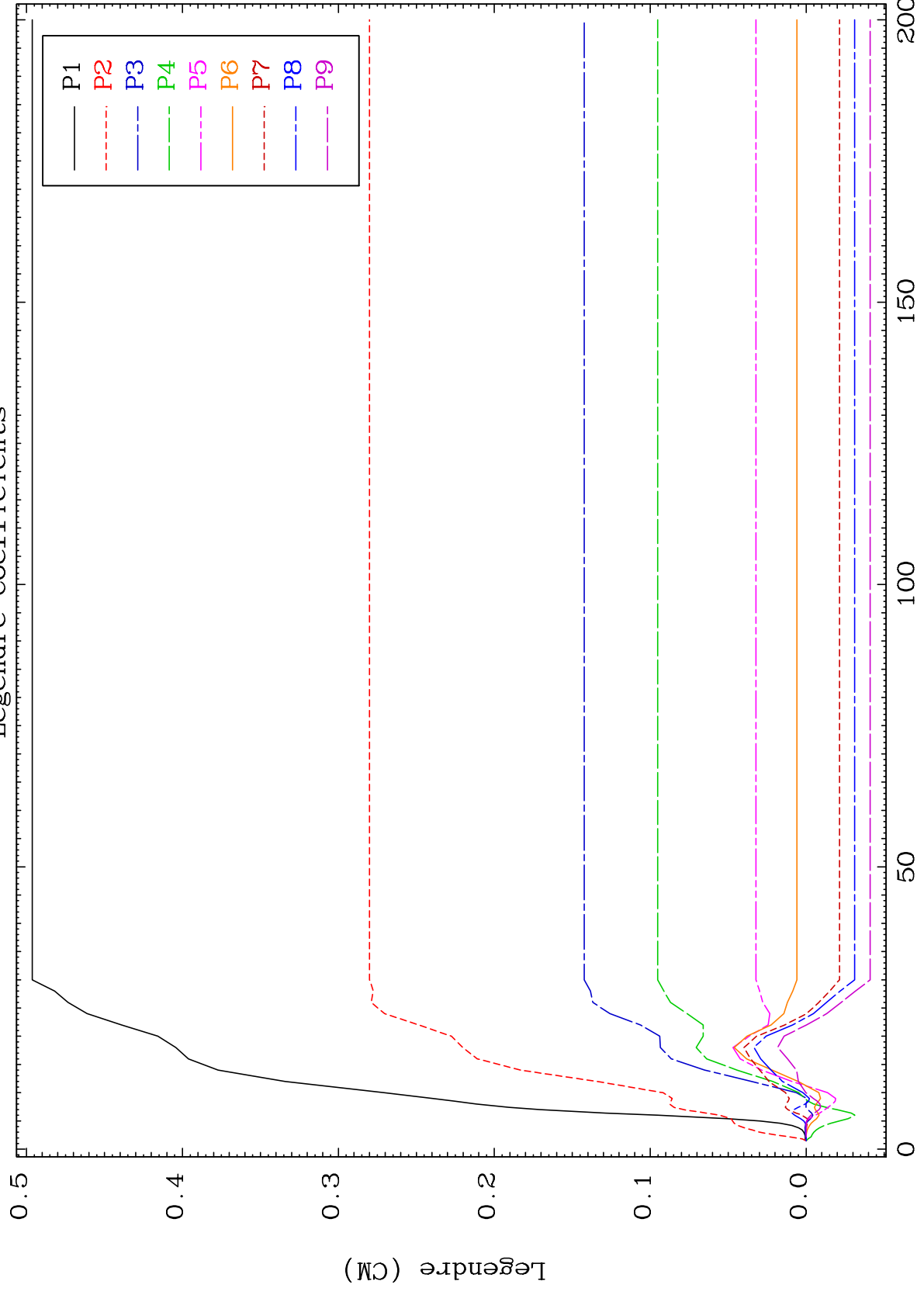
23

60-Nd-140

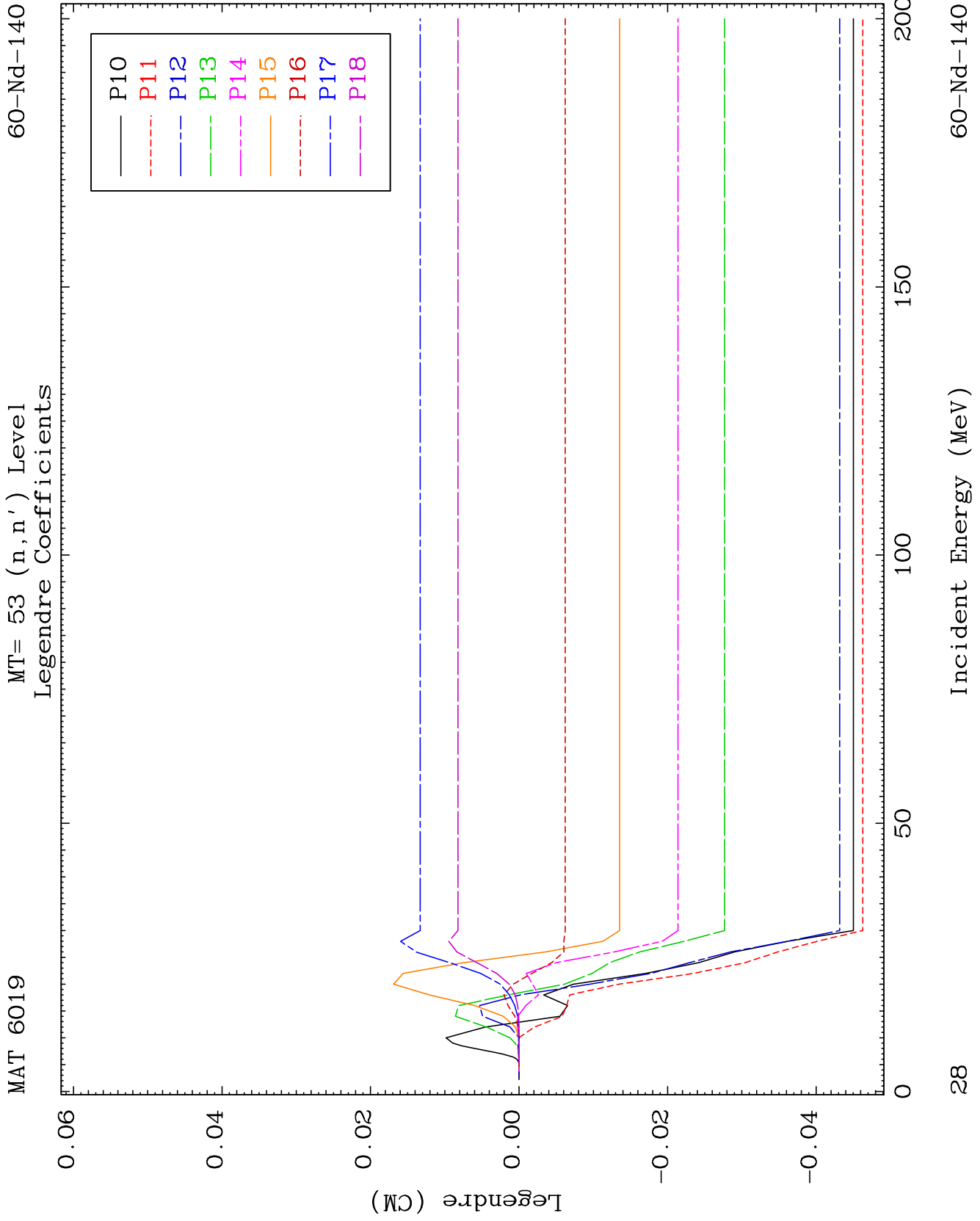




MAT 6019 MT= 53 (n,n') Level Legendre Coefficients 60-Nd-140



27 Incident Energy (MeV) 60-Nd-140



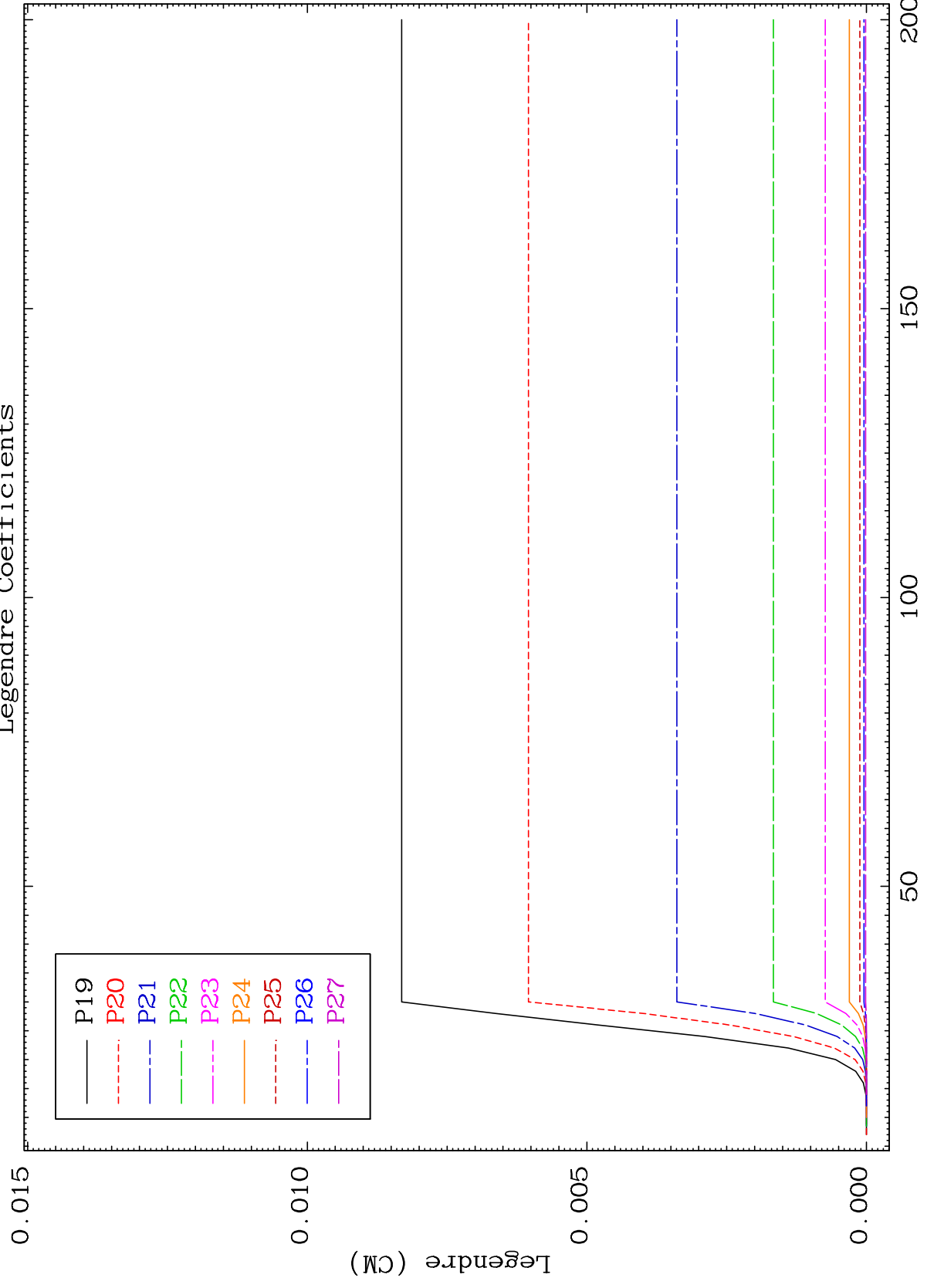
MAT 6019 MT= 53 (n,n') Level Legendre Coefficients

60-Nd-140

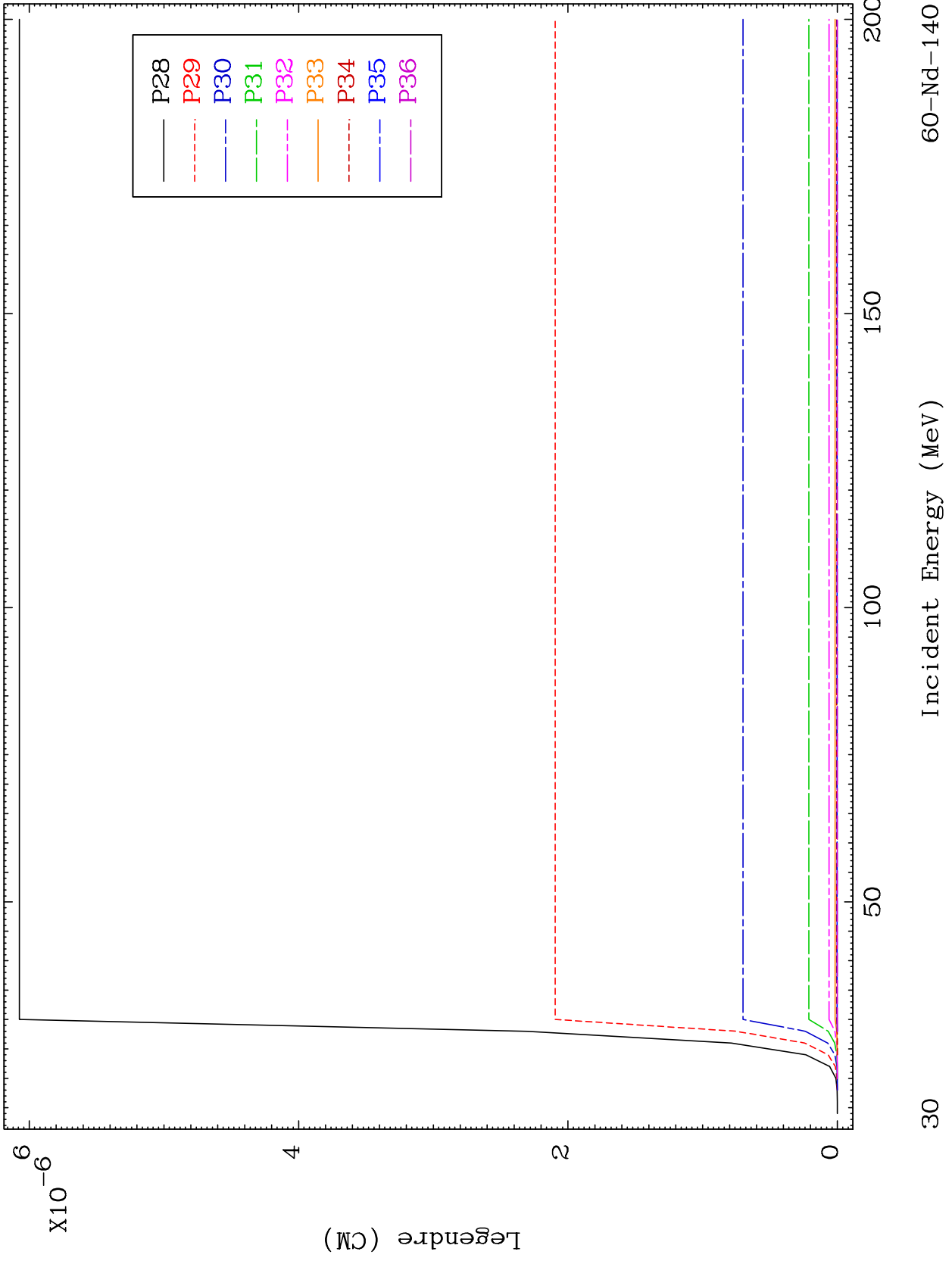
60-Nd-140

Incident Energy (MeV)

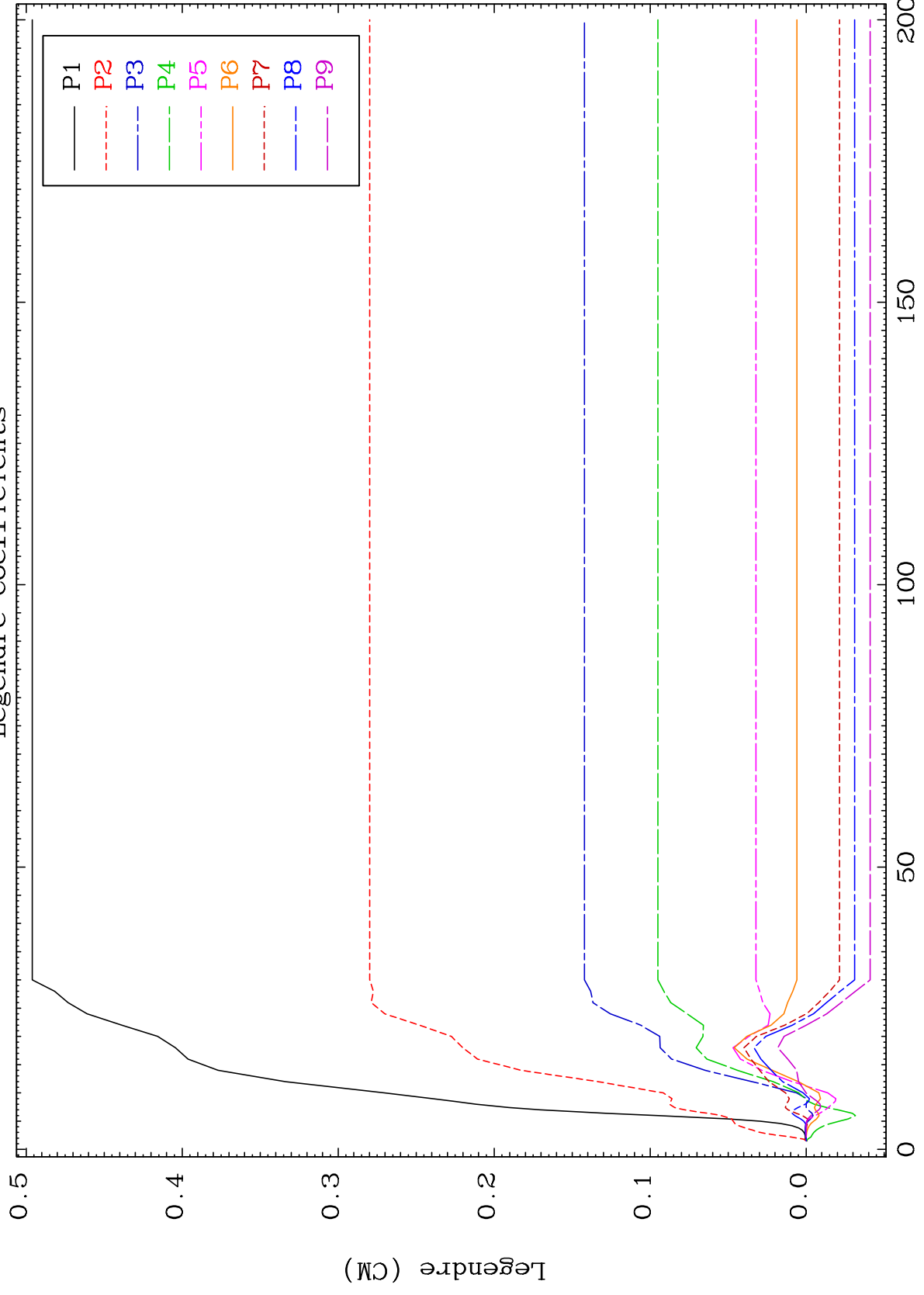
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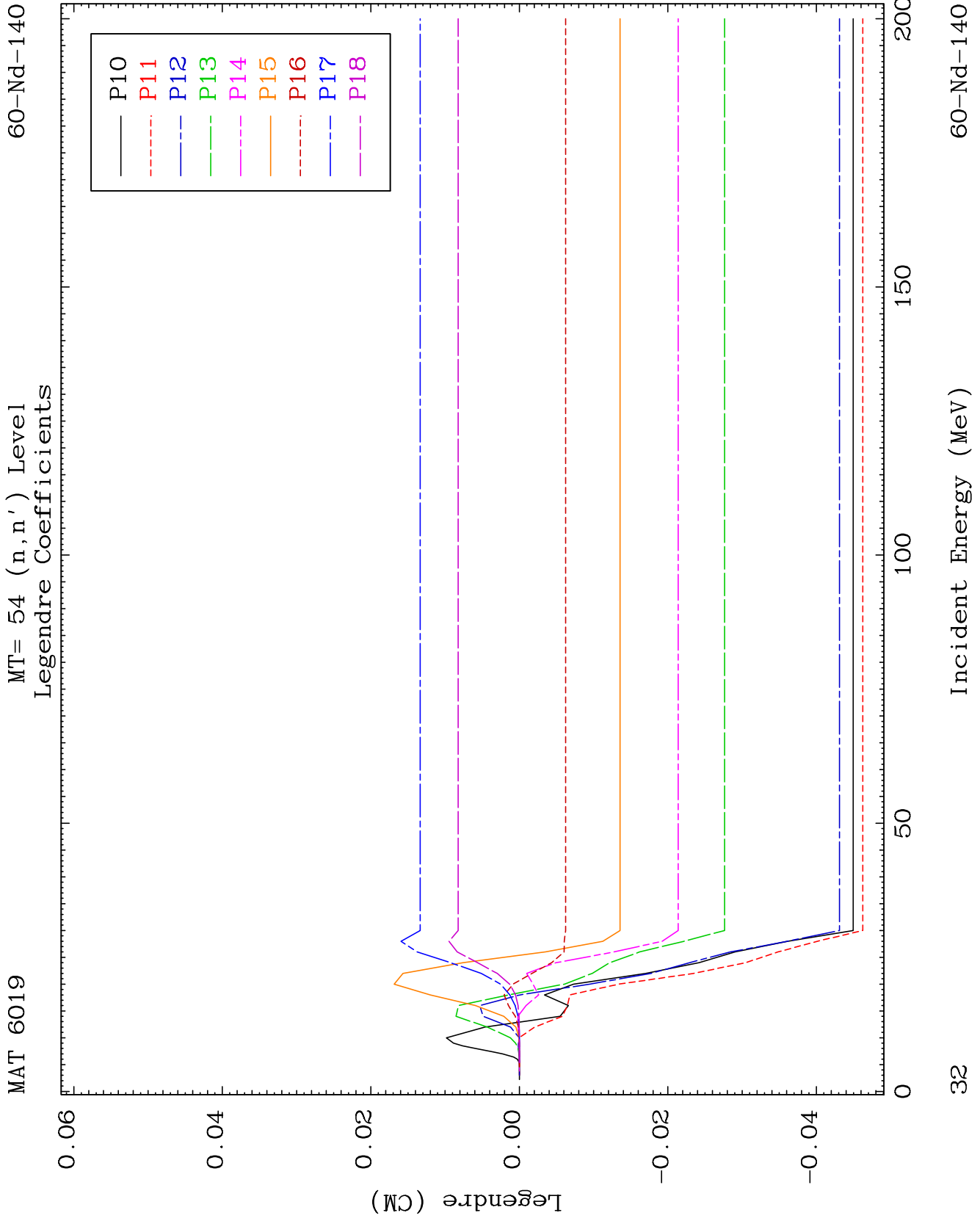


MAT 6019 MT= 53 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019 MT= 54 (n,n') Level Legendre Coefficients 60-Nd-140





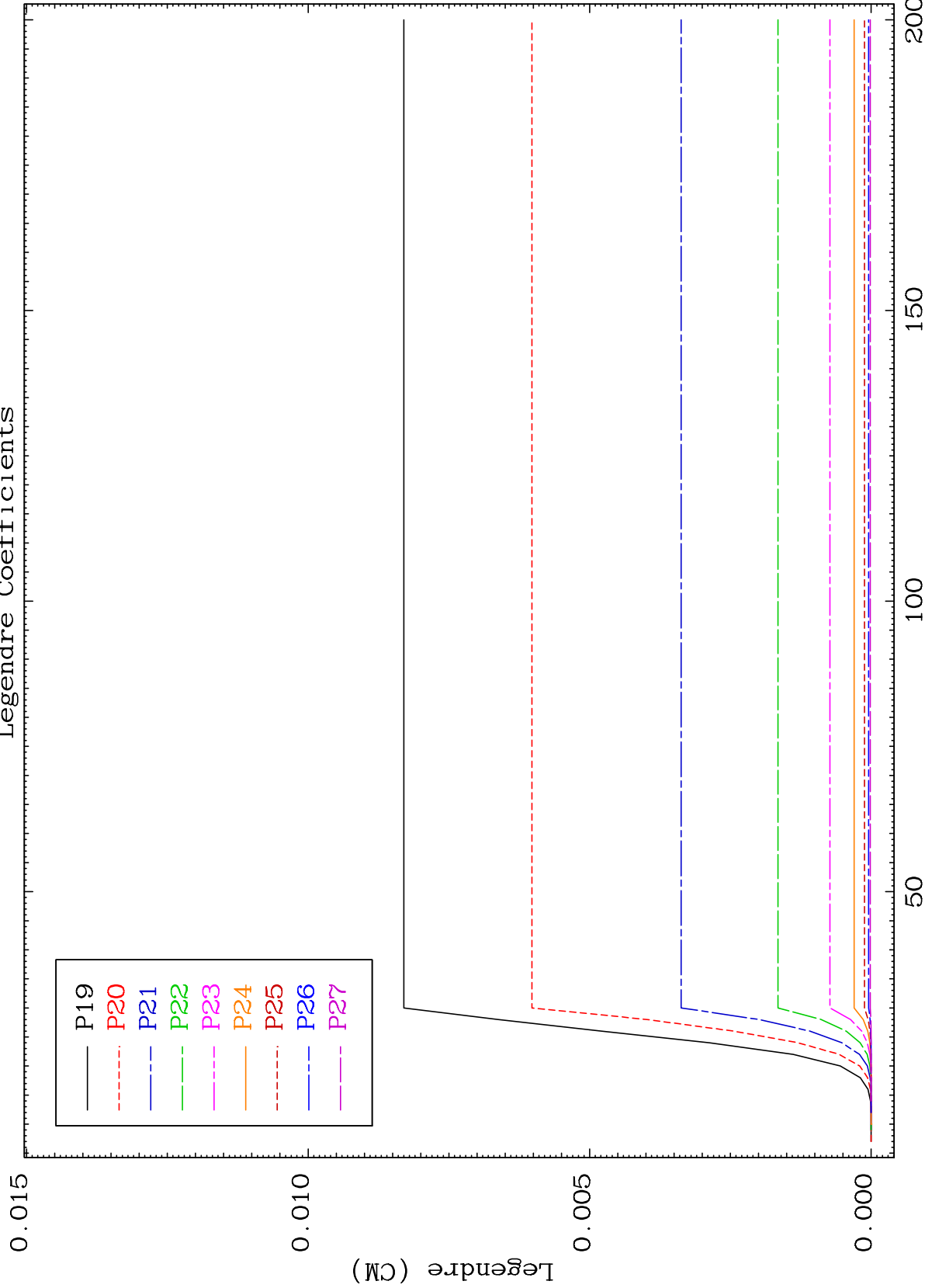
MAT 6019 MT= 54 (n,n') Level Legendre Coefficients

60-Nd-140

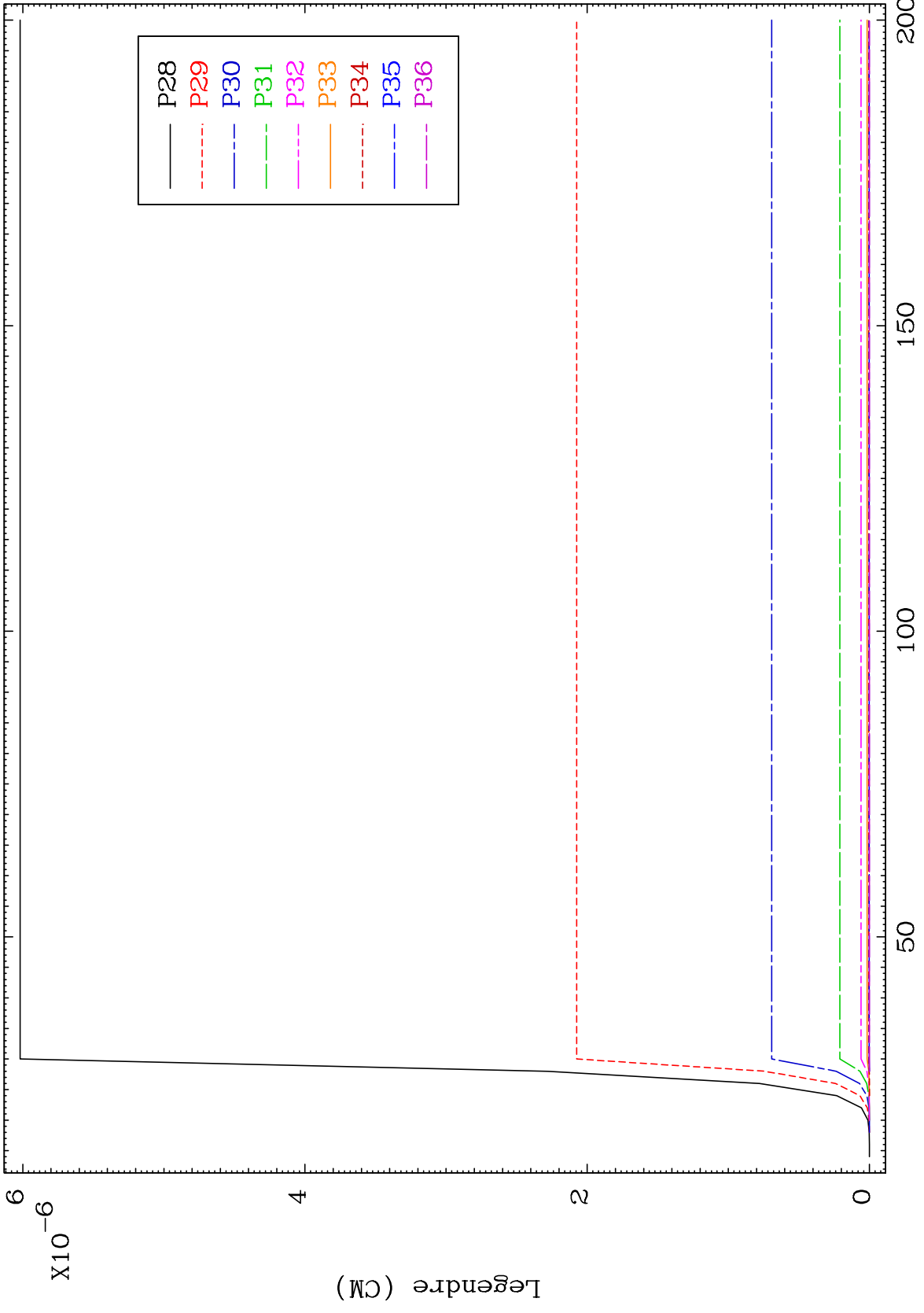
60-Nd-140

Incident Energy (MeV)

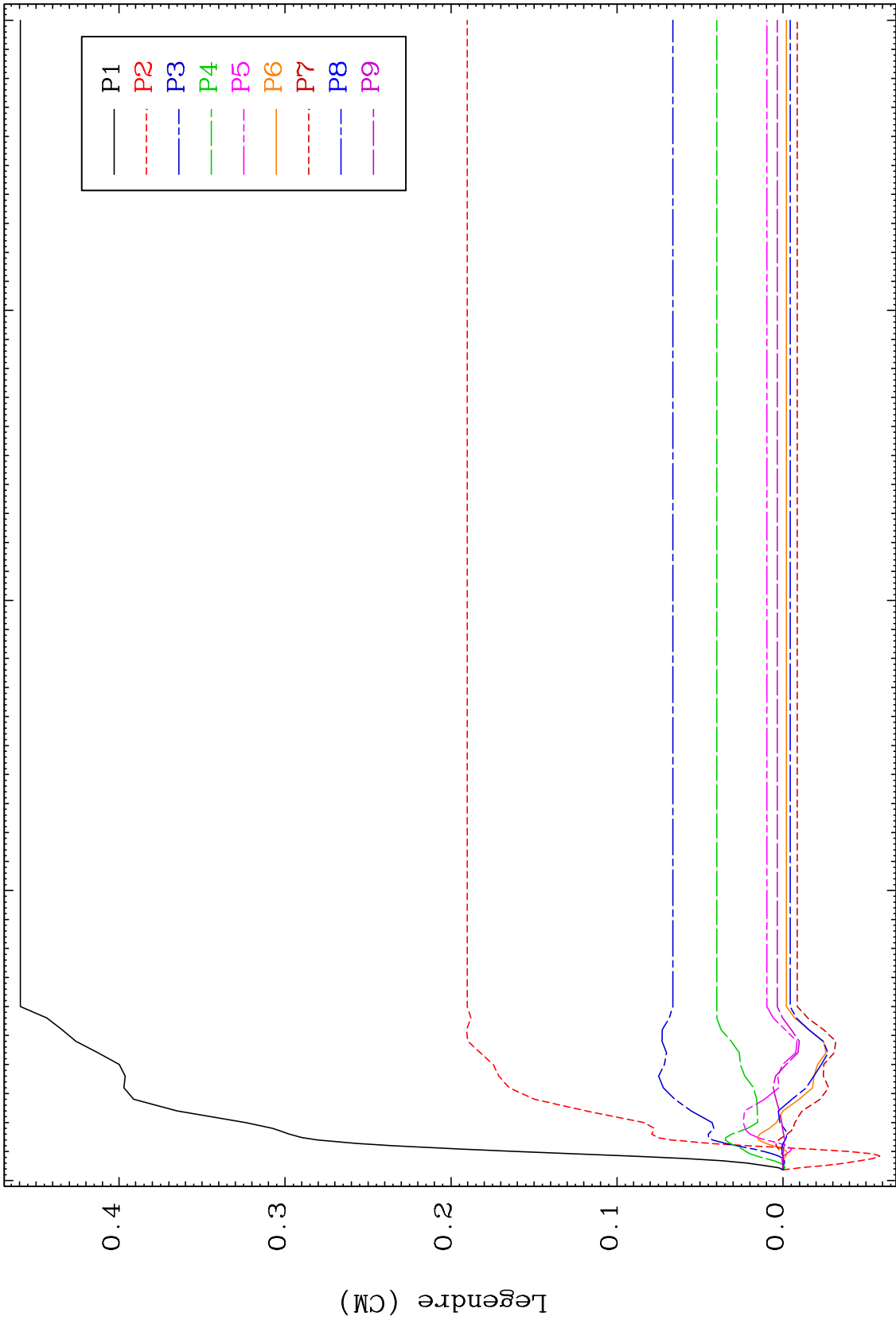
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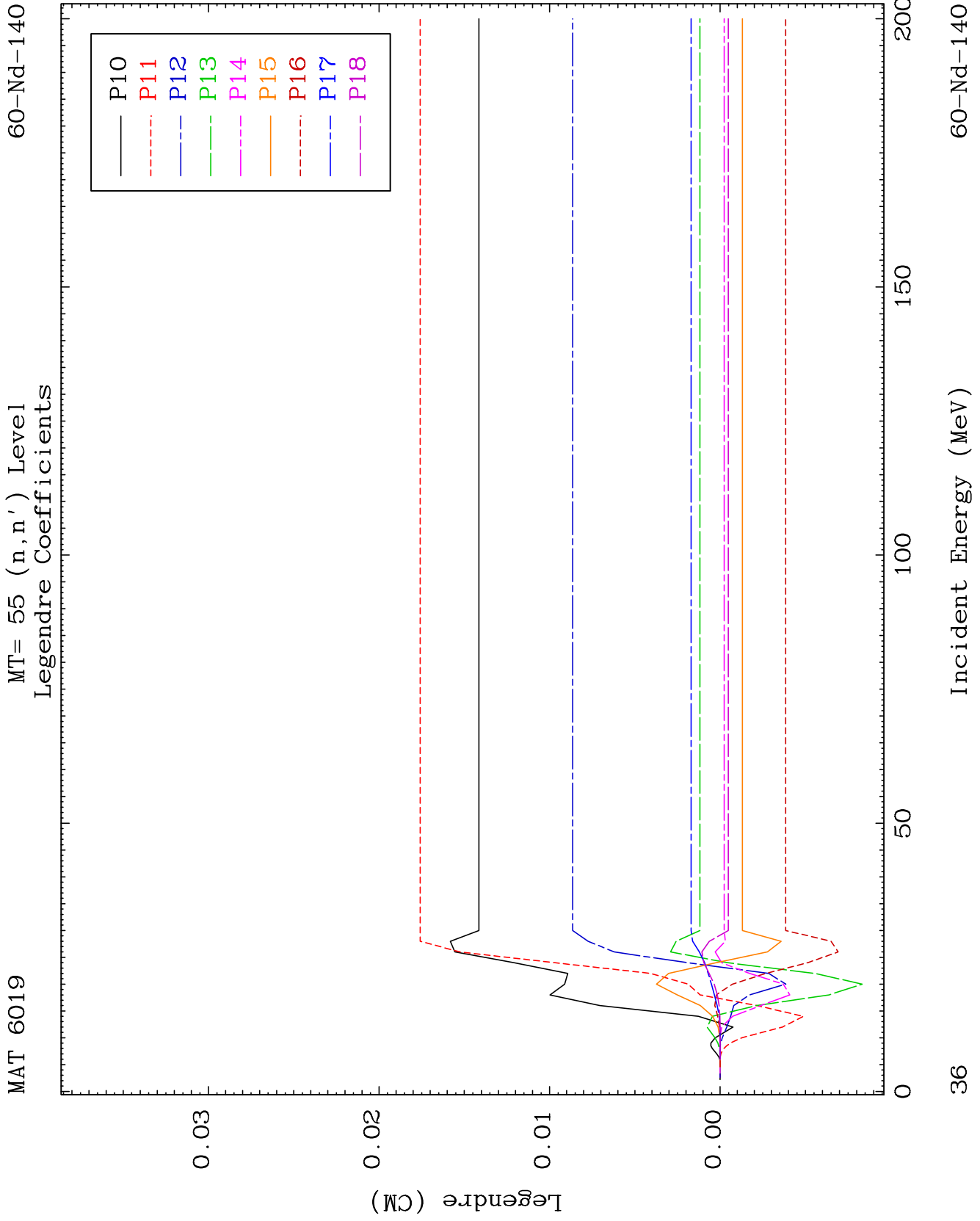
MAT 6019 MT= 54 (n,n') Level Legendre Coefficients 60-Nd-140



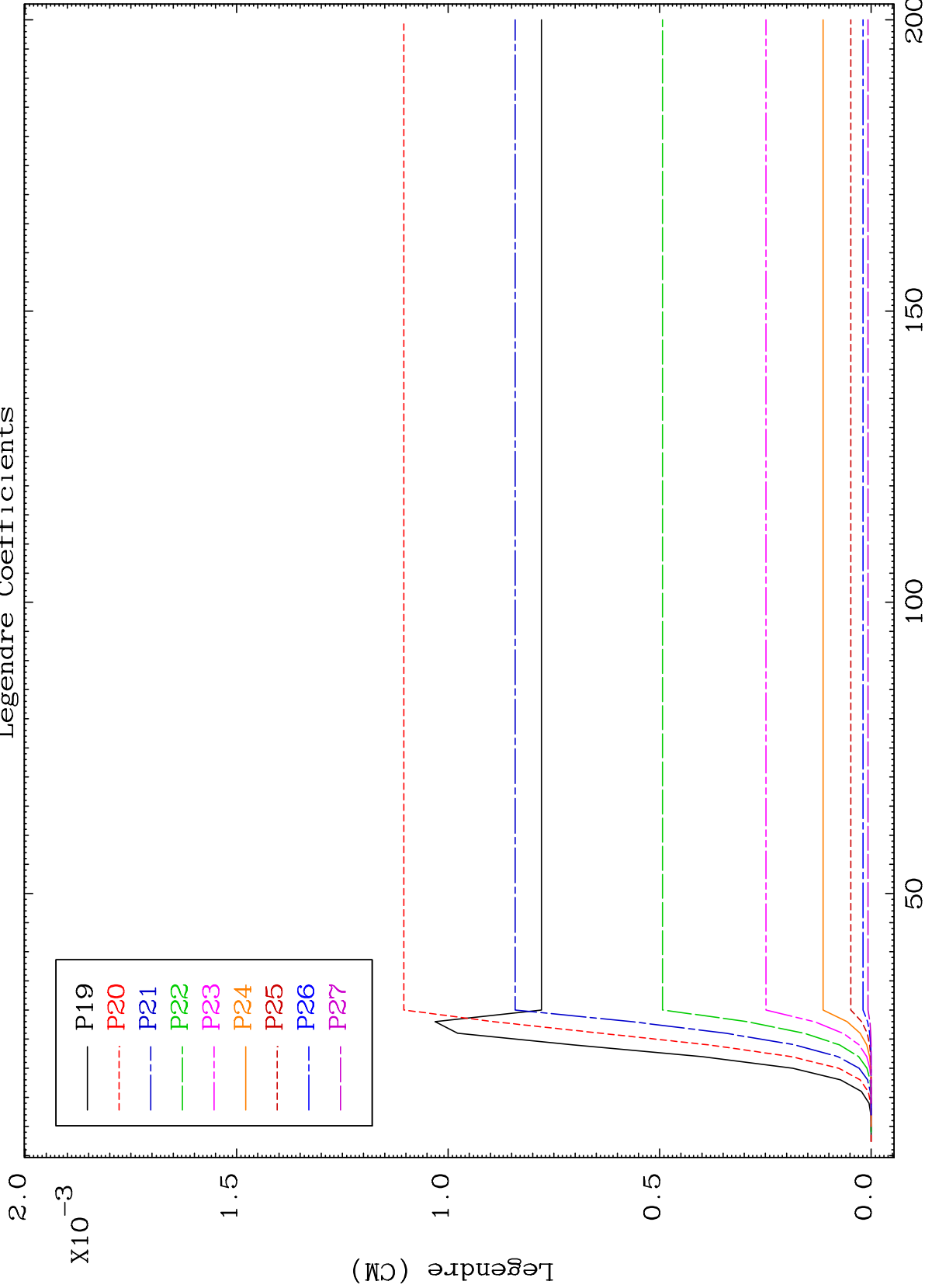
MAT 6019 MT= 55 (n,n') Level Legendre Coefficients 60-Nd-140



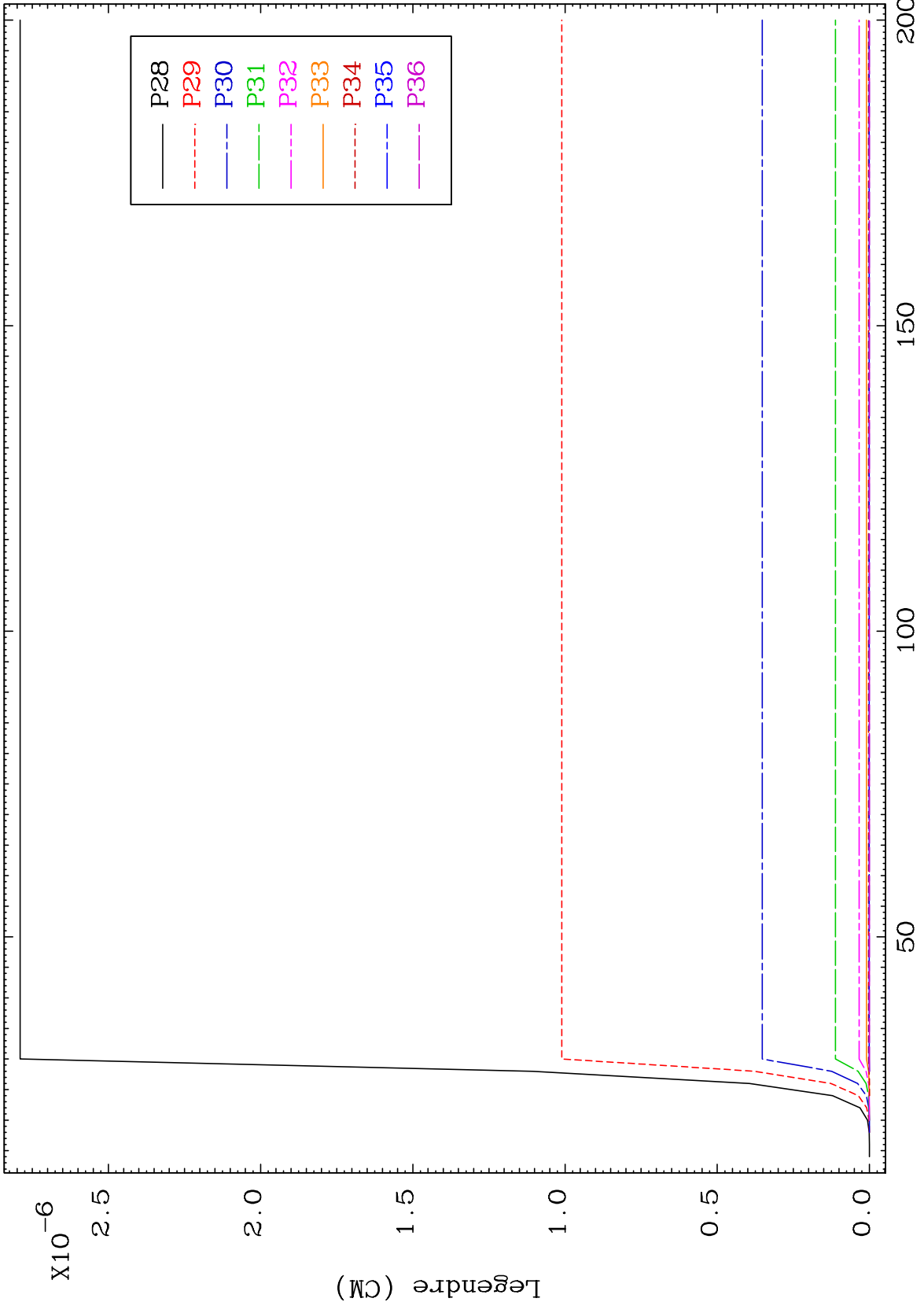
35 Incident Energy (MeV) 60-Nd-140



MAT 6019 MT= 55 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019 MT= 55 (n,n') Level Legendre Coefficients 60-Nd-140

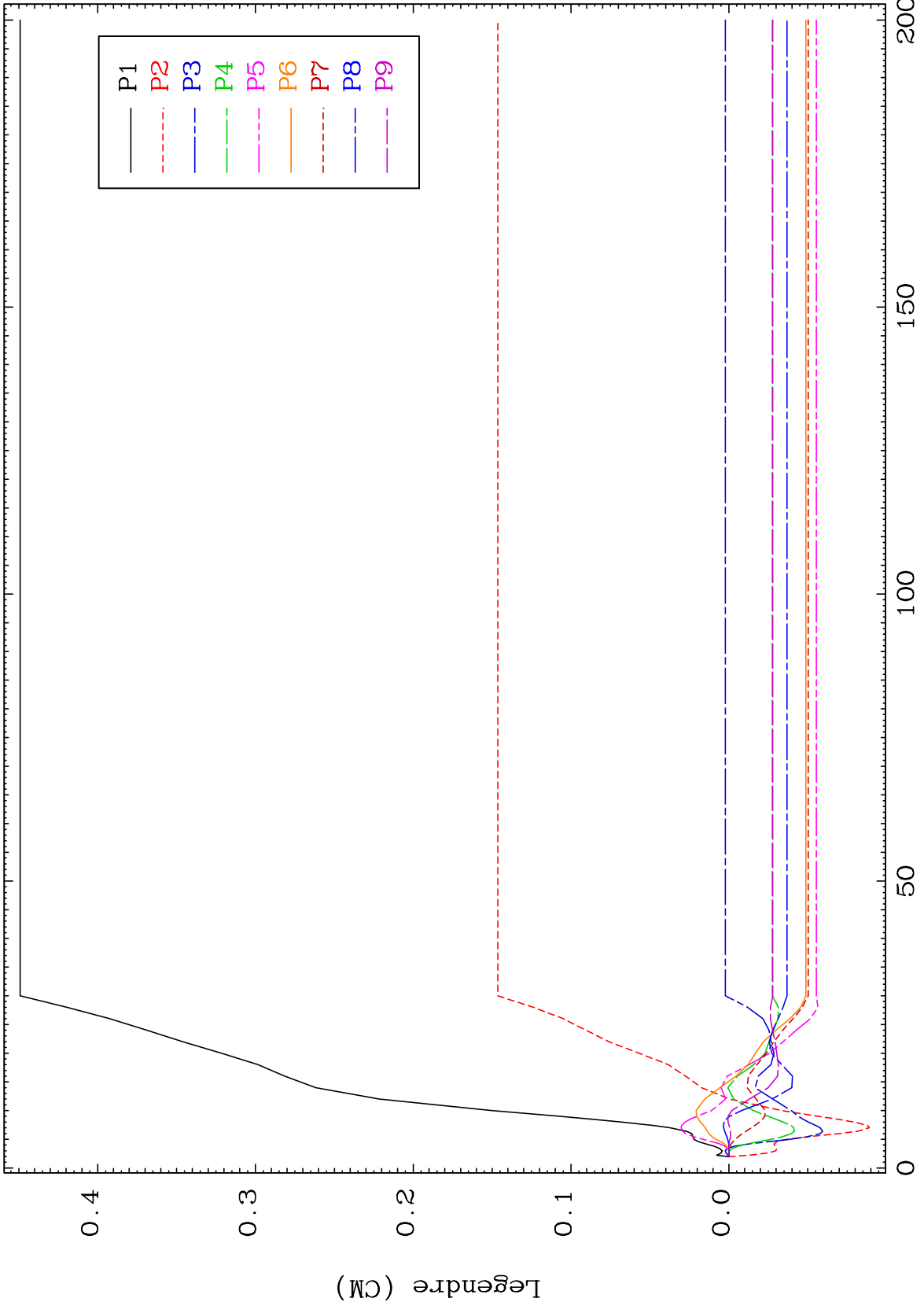


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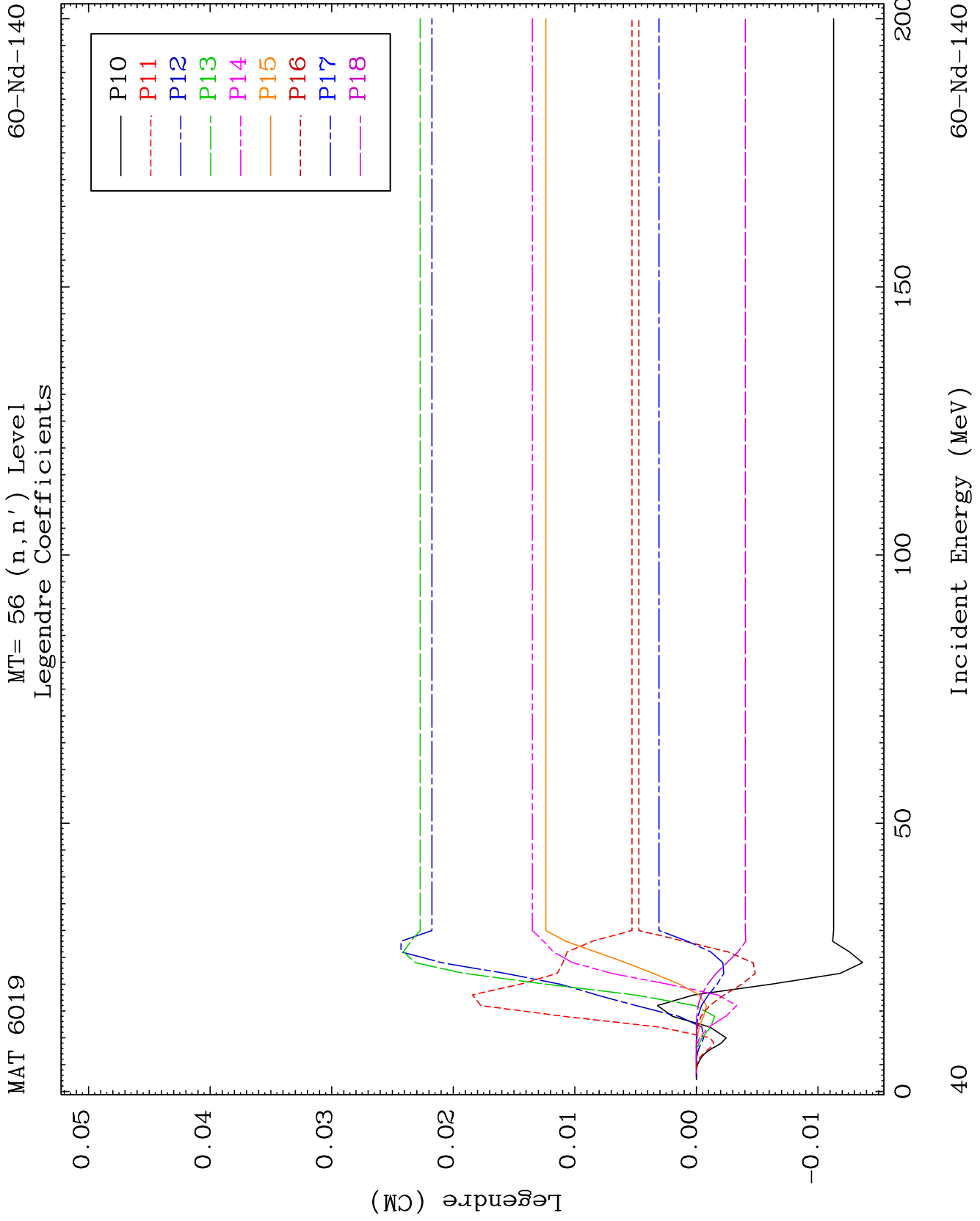
Incident Energy (MeV)

60-Nd-140

MAT 6019 MT= 56 (n,n') Level Legendre Coefficients 60-Nd-140



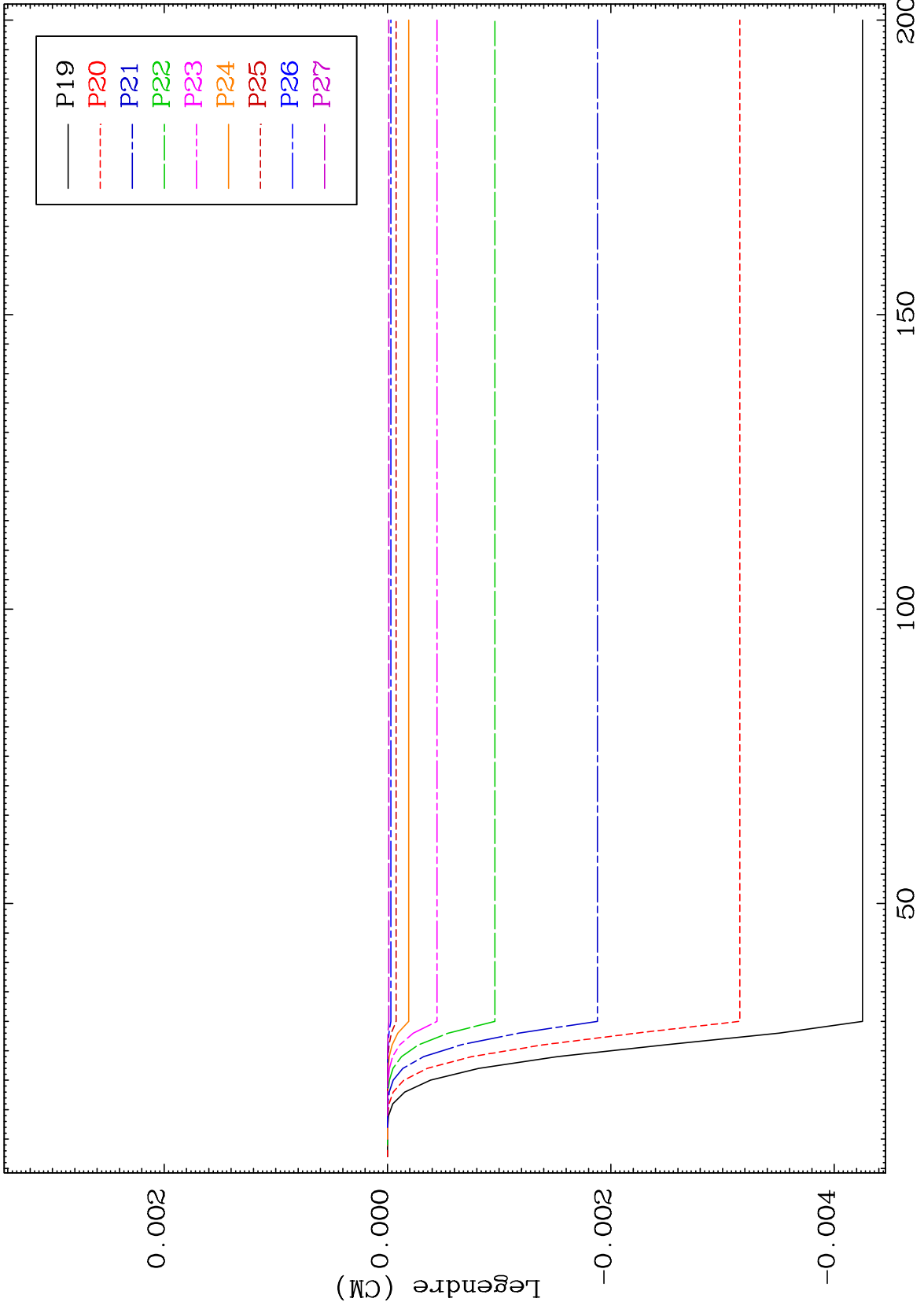
39 60-Nd-140



MAT 6019

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

60-Nd-140

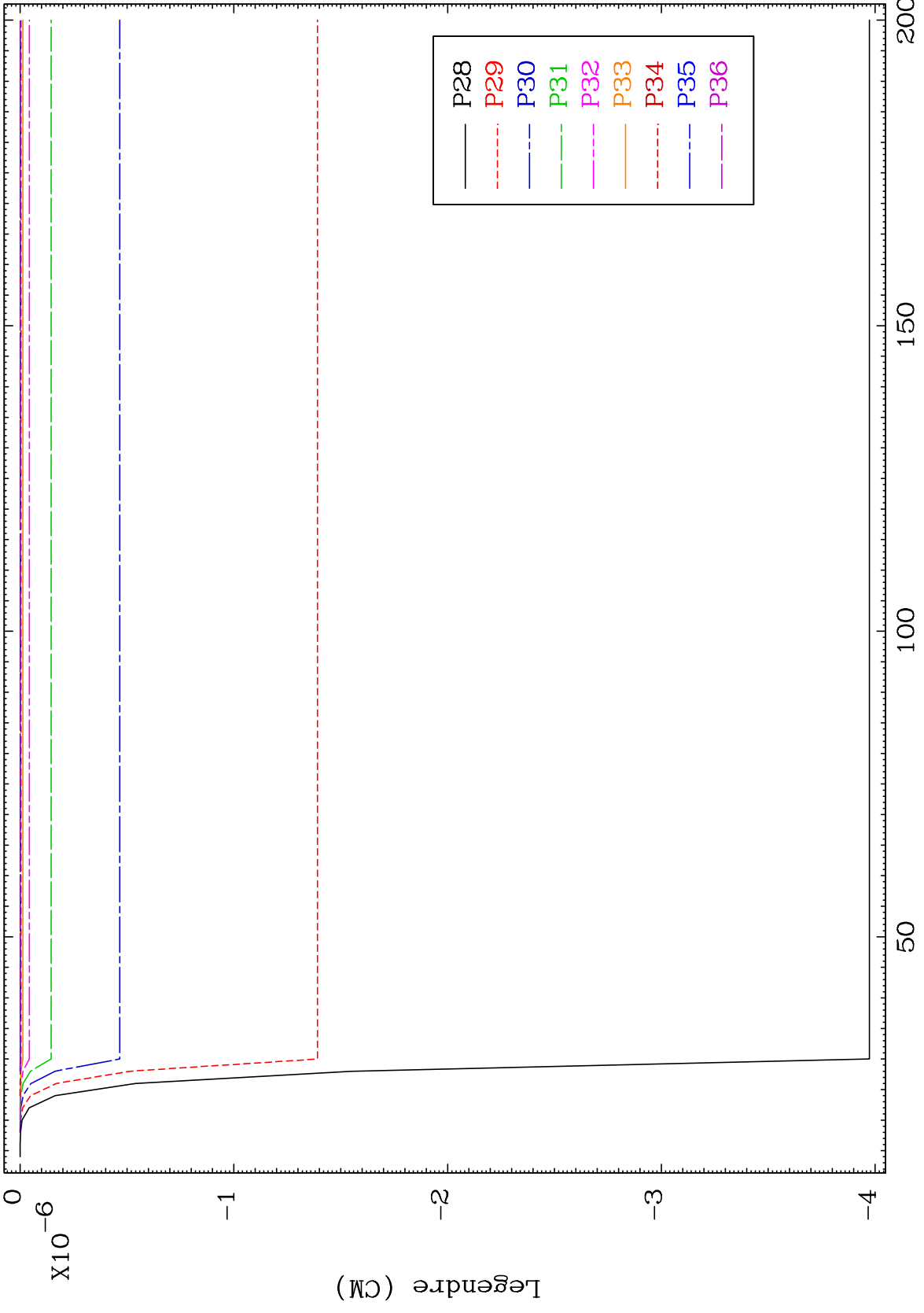


41

Incident Energy (MeV)

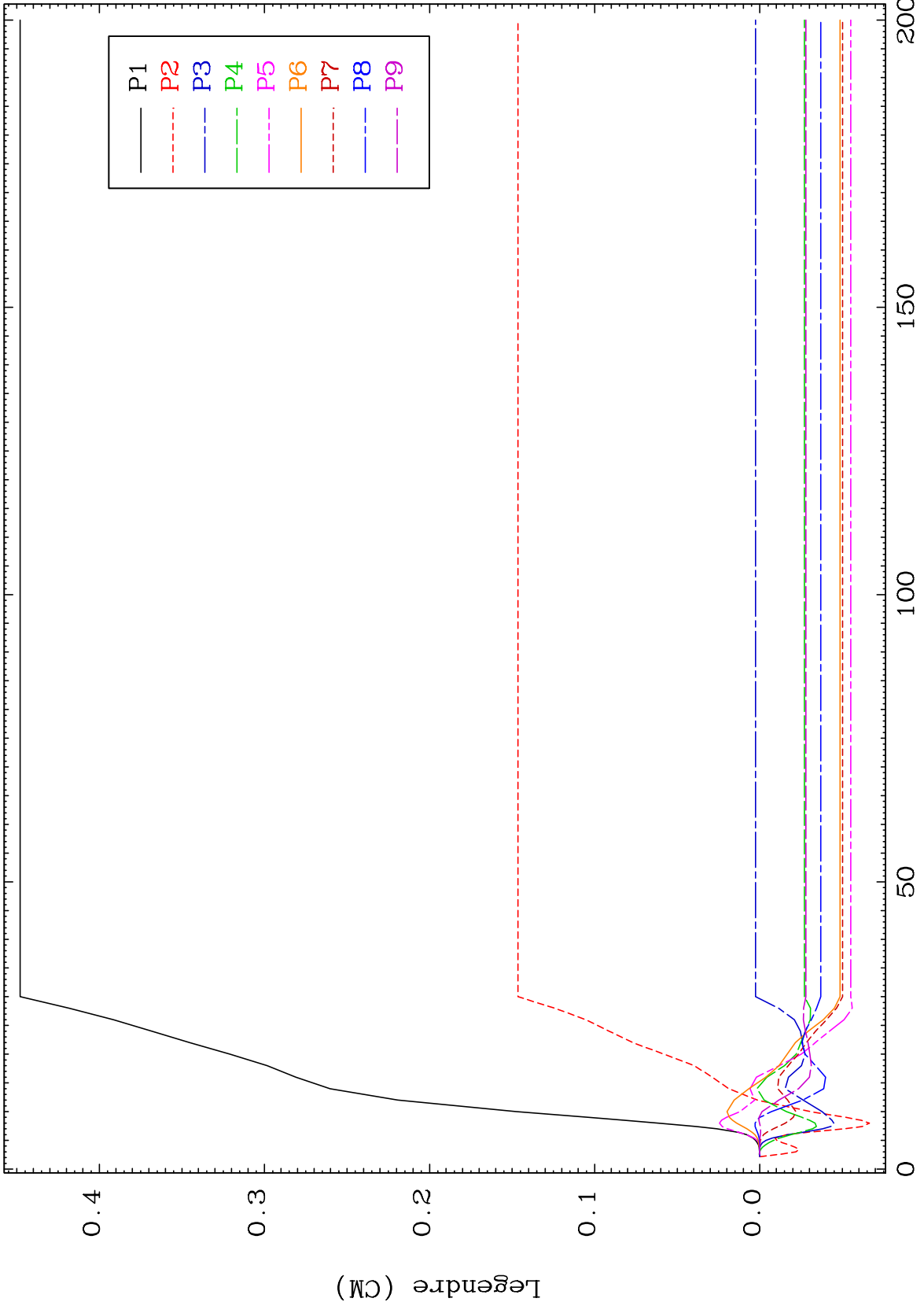
60-Nd-140

MAT 6019 MT= 56 (n,n') Level Legendre Coefficients 60-Nd-140

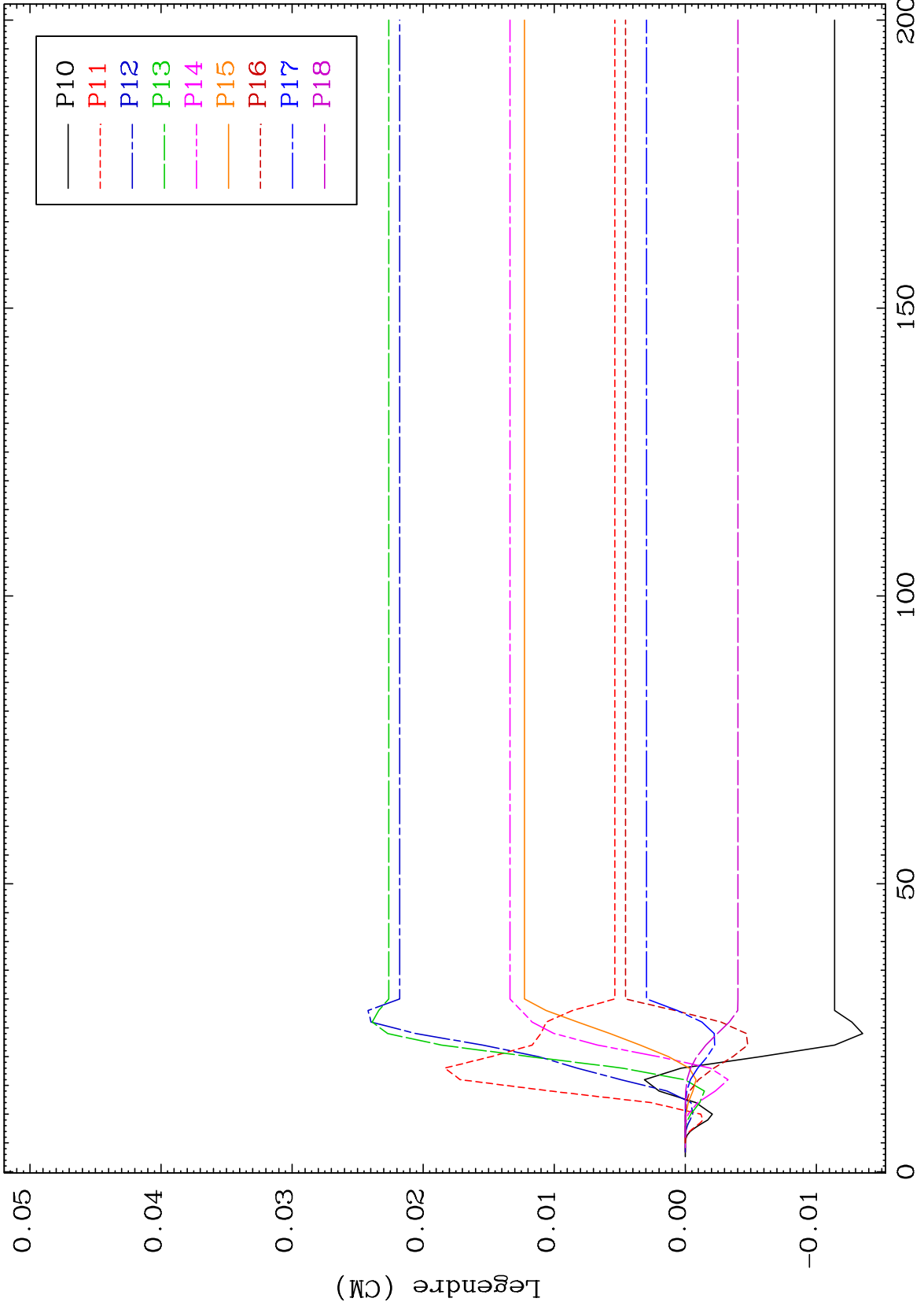


42 Incident Energy (MeV) 60-Nd-140

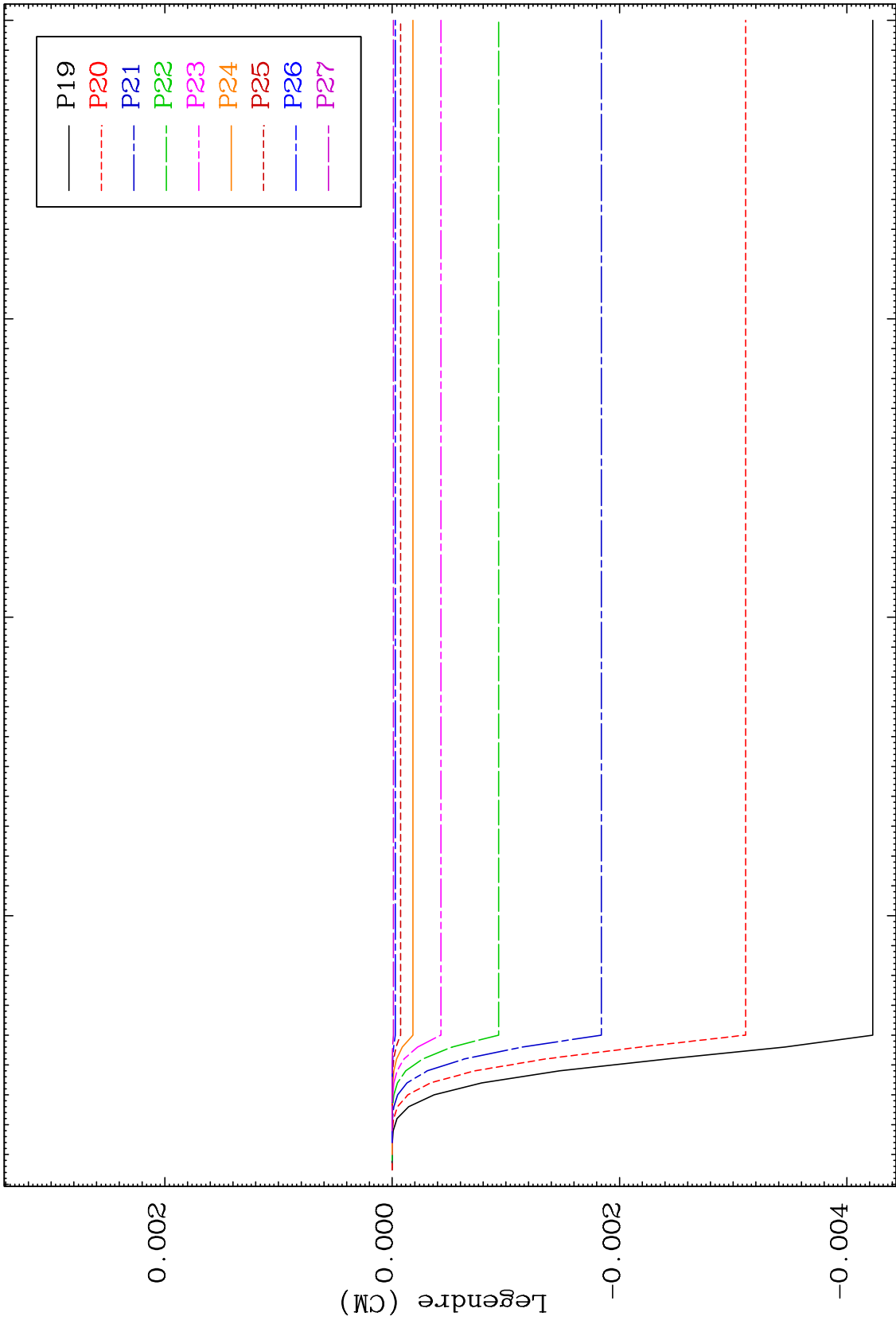
MAT 6019 MT= 57 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019 MT= 57 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019 MT= 57 (n,n') Level Legendre Coefficients 60-Nd-140

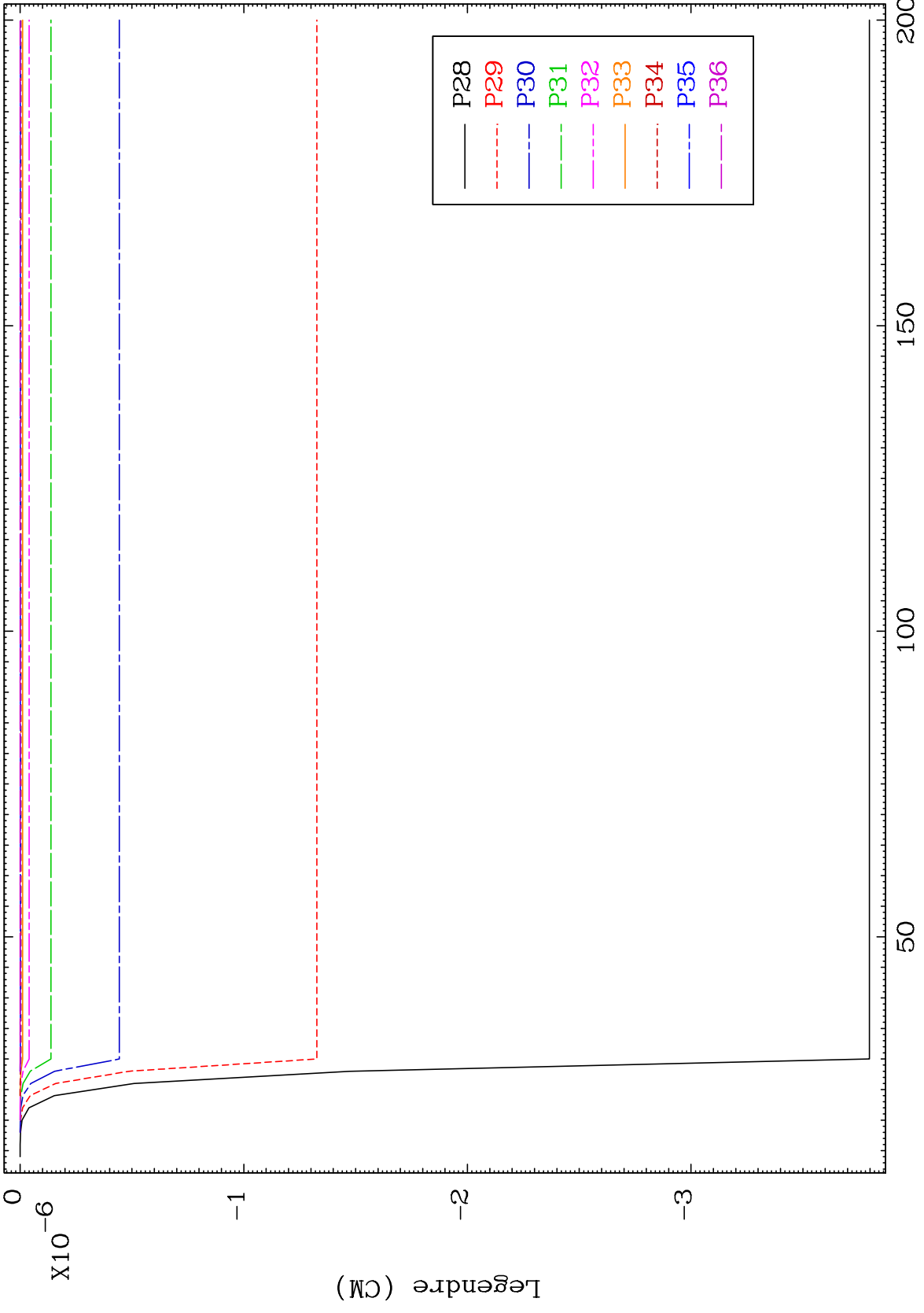


45 Incident Energy (MeV) 60-Nd-140

MAT 6019

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

60-Nd-140

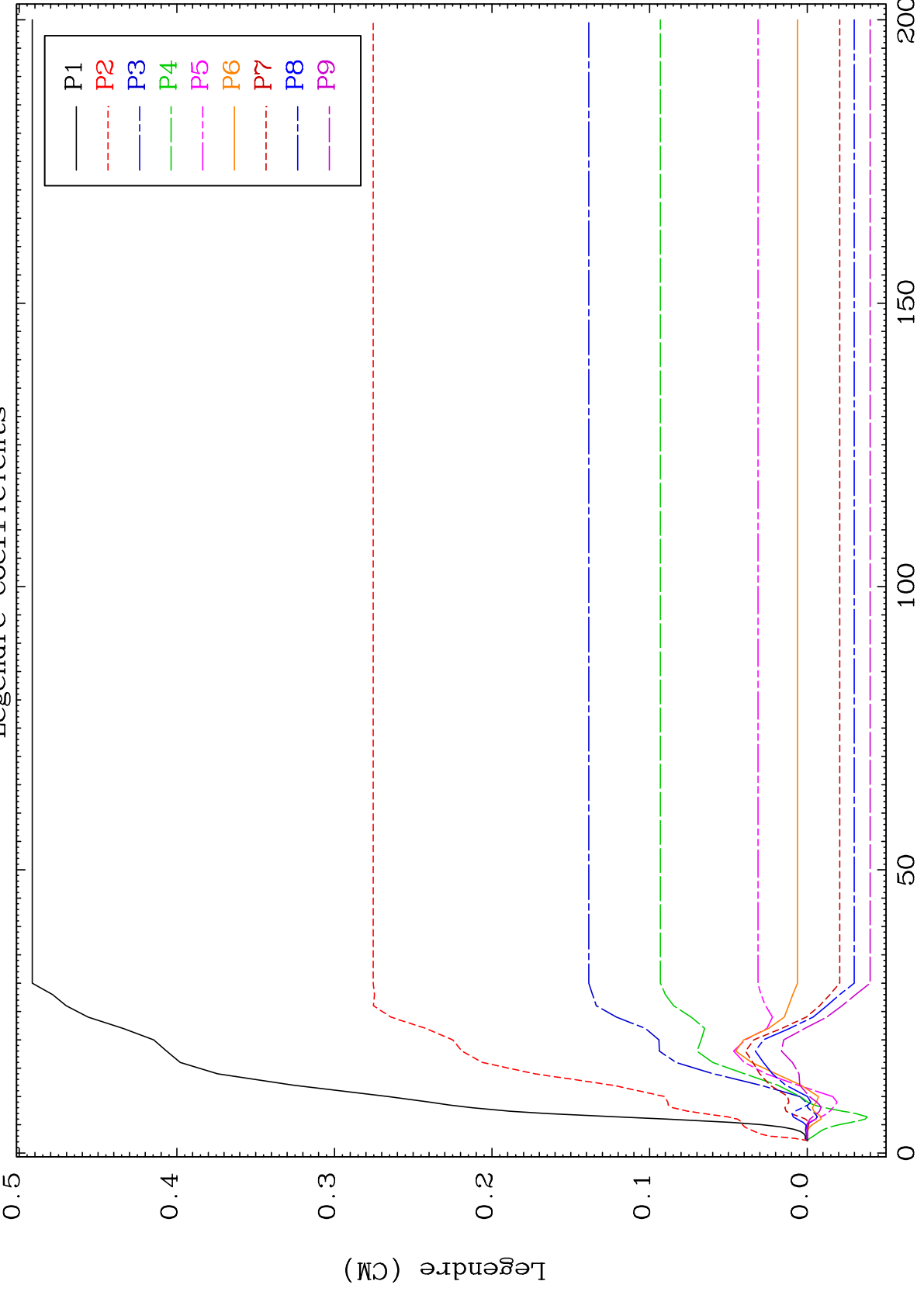


60-Nd-140

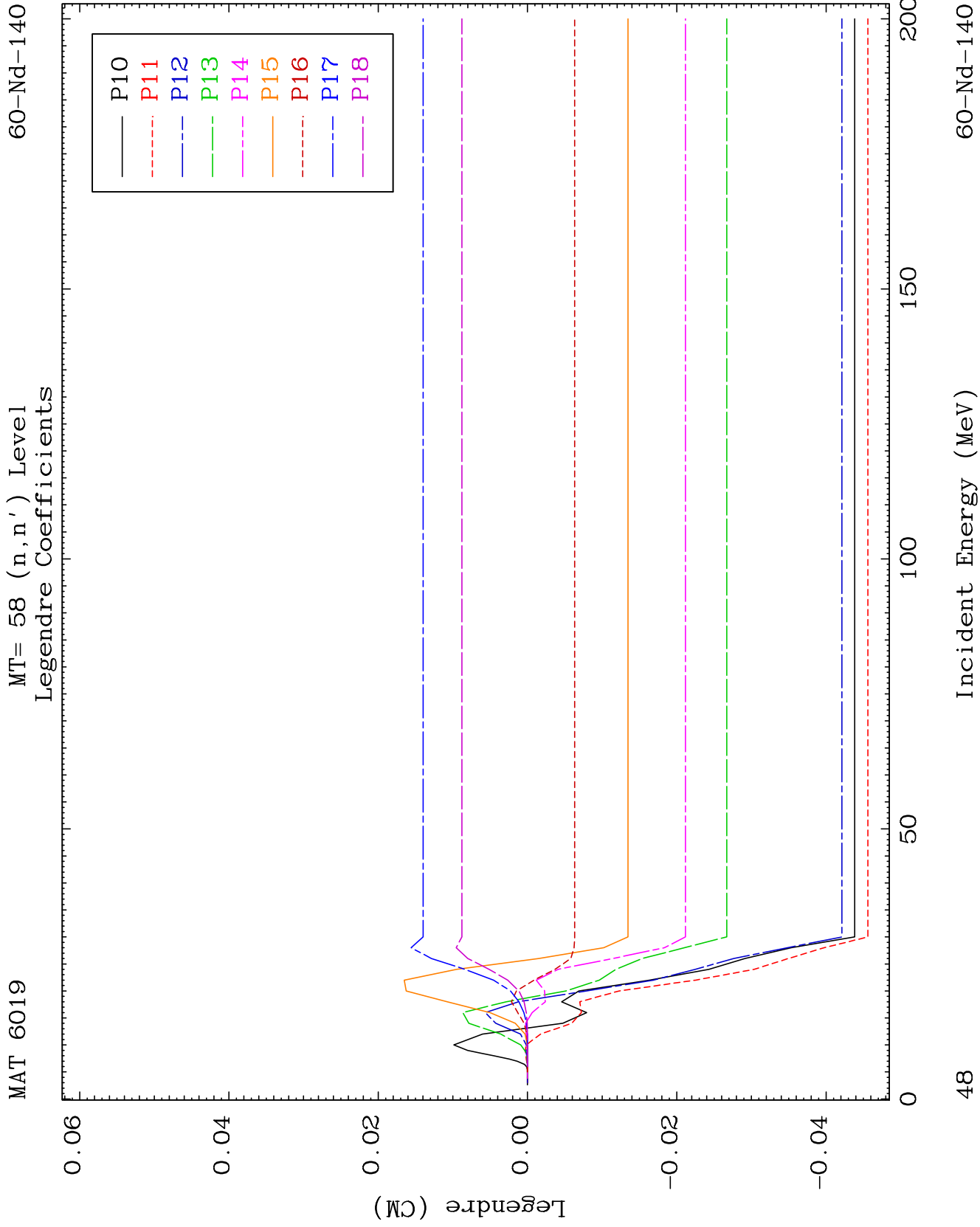
Incident Energy (MeV)

46

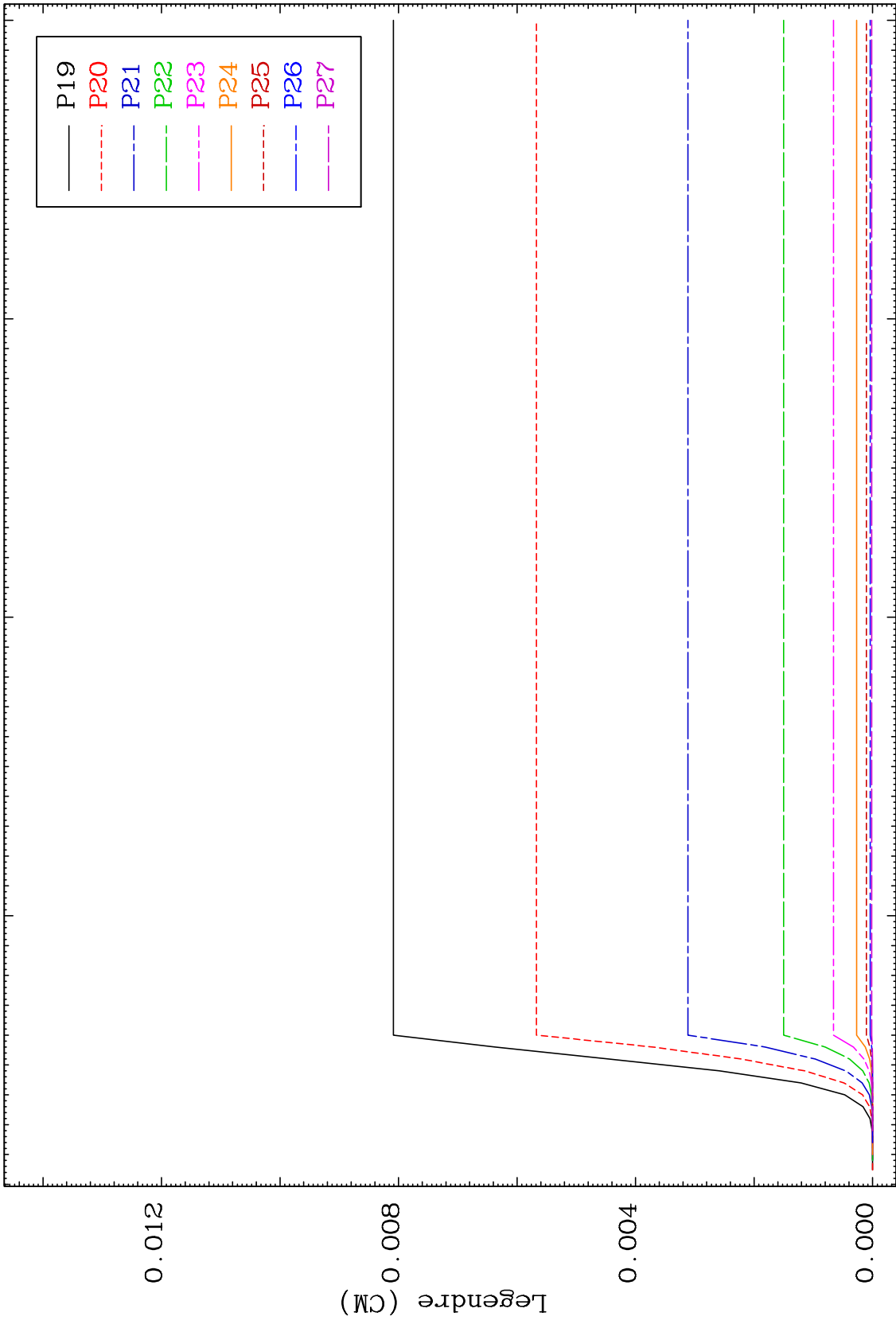
MAT 6019 MT= 58 (n,n') Level Legendre Coefficients 60-Nd-140



47

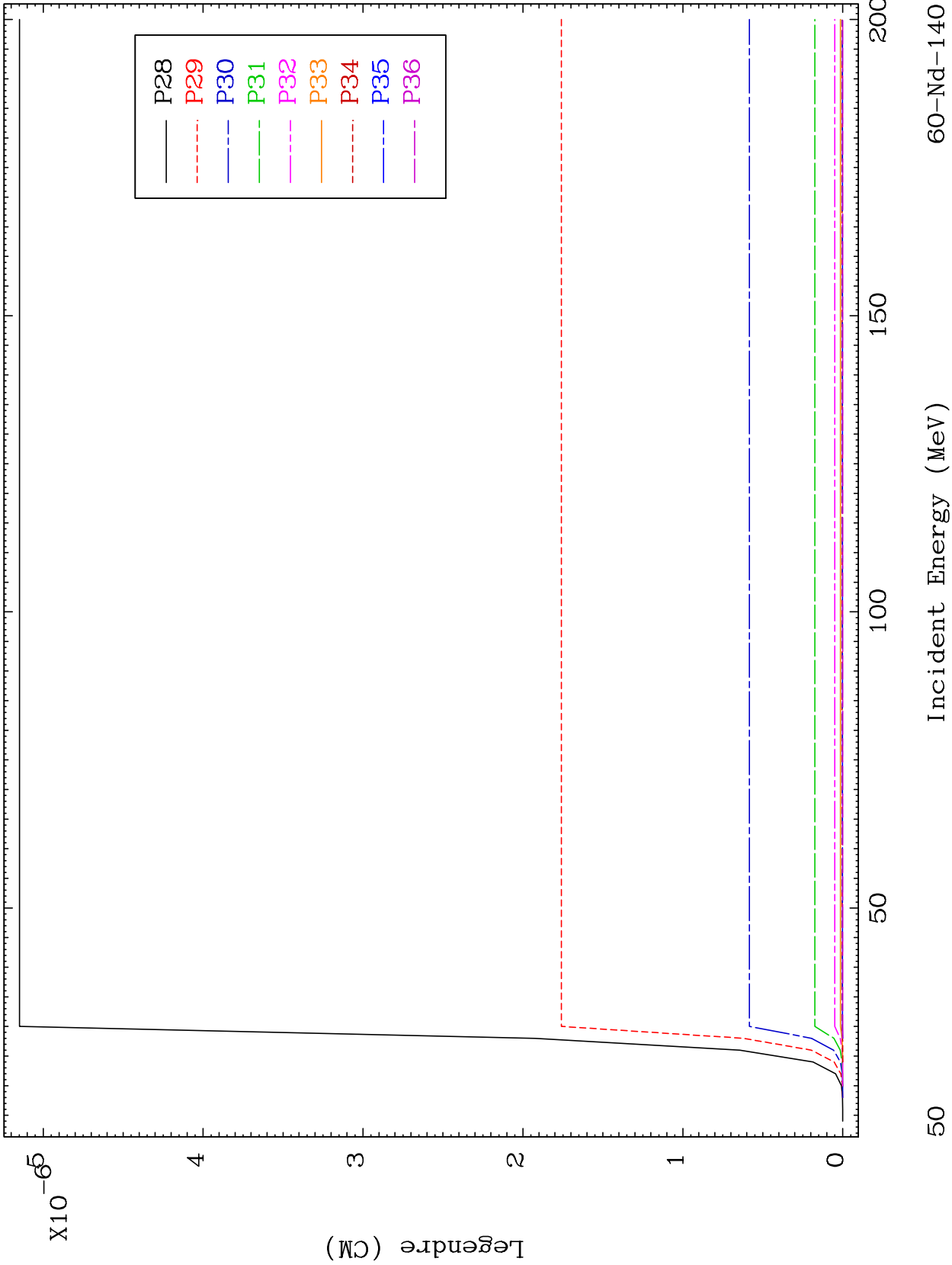


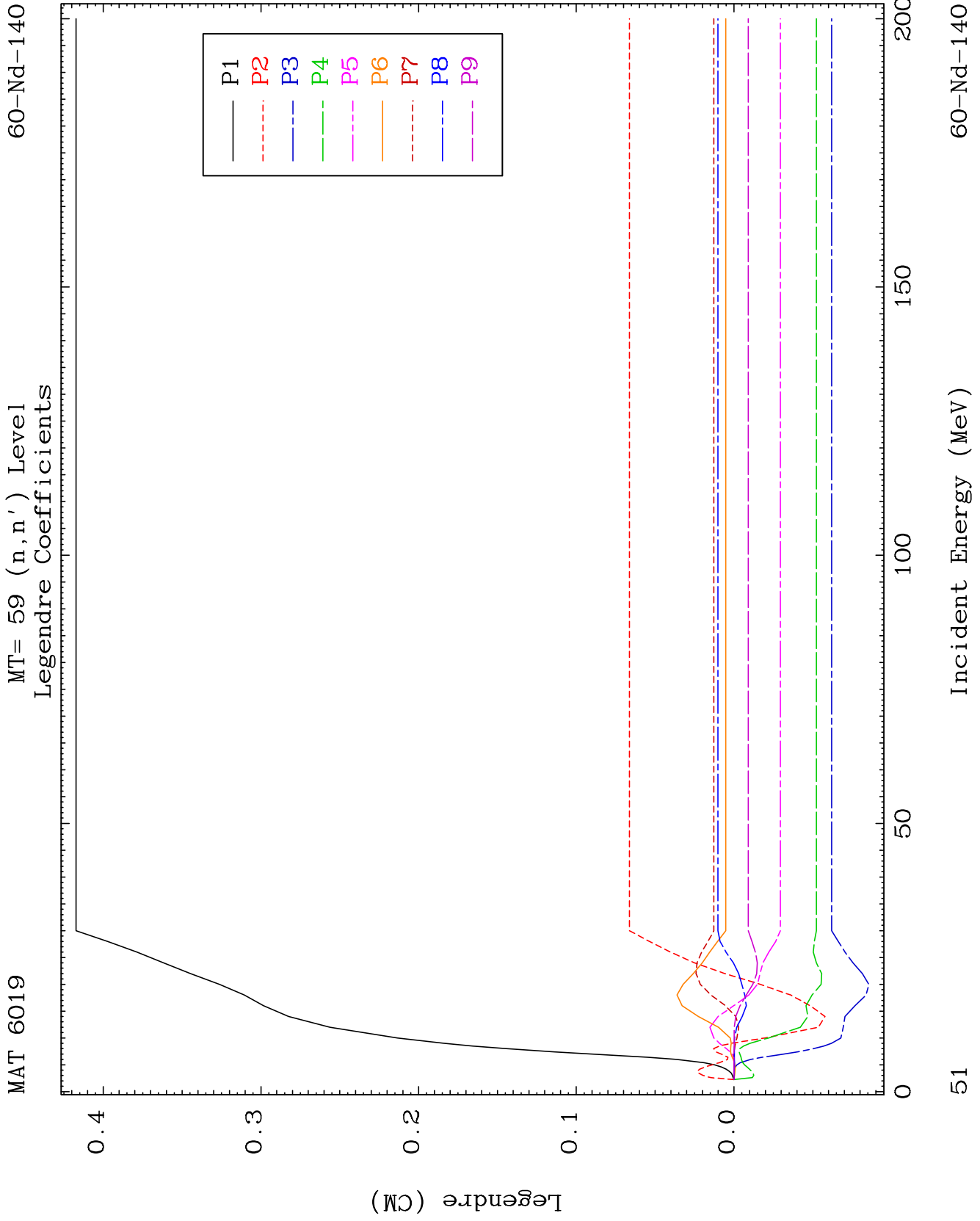
MAT 6019 MT= 58 (n,n') Level Legendre Coefficients 60-Nd-140

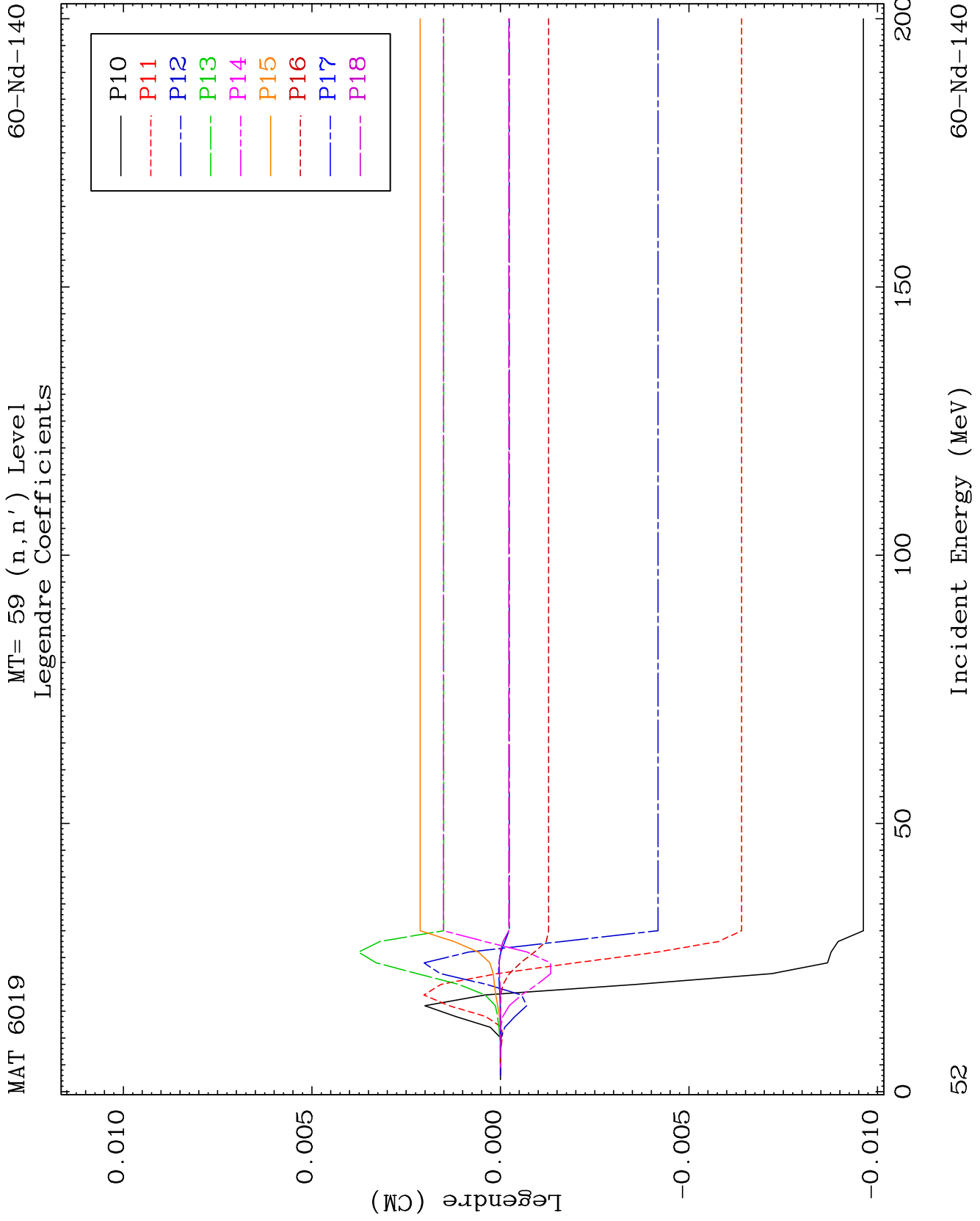


49 Incident Energy (MeV) 60-Nd-140

MAT 6019 MT= 58 (n,n') Level Legendre Coefficients 60-Nd-140



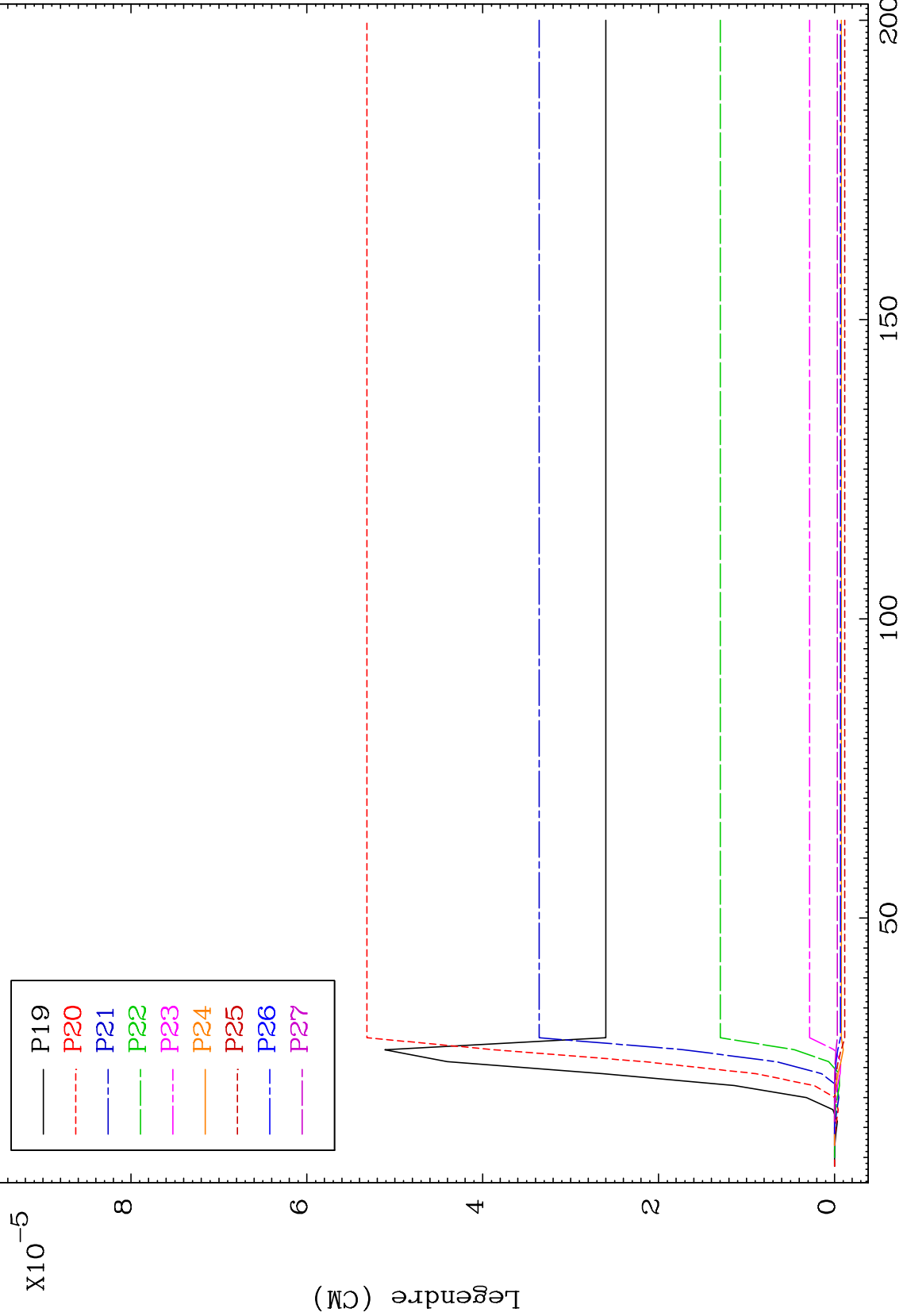




MAT 6019

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

60-Nd-140

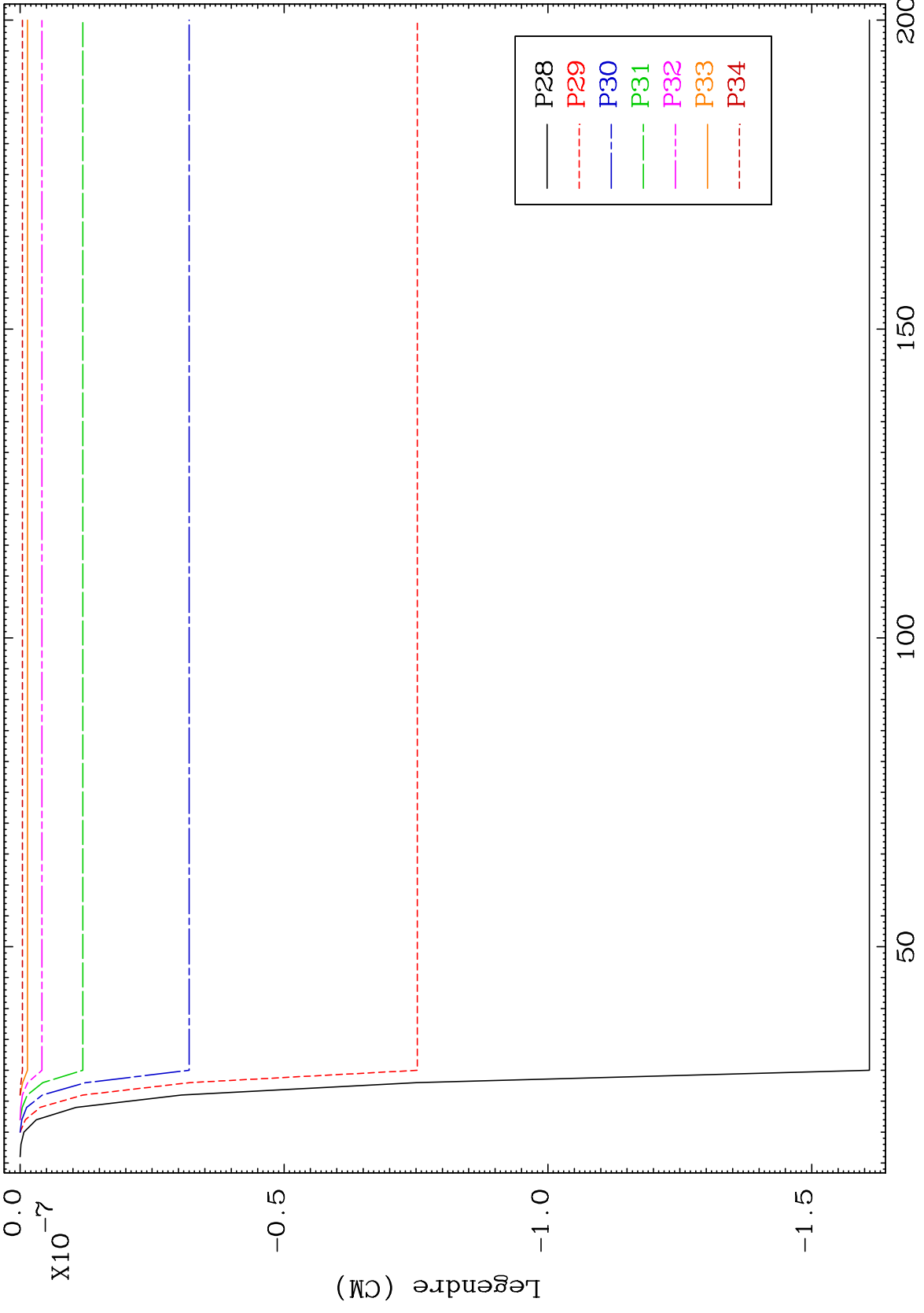


53

Incident Energy (MeV)

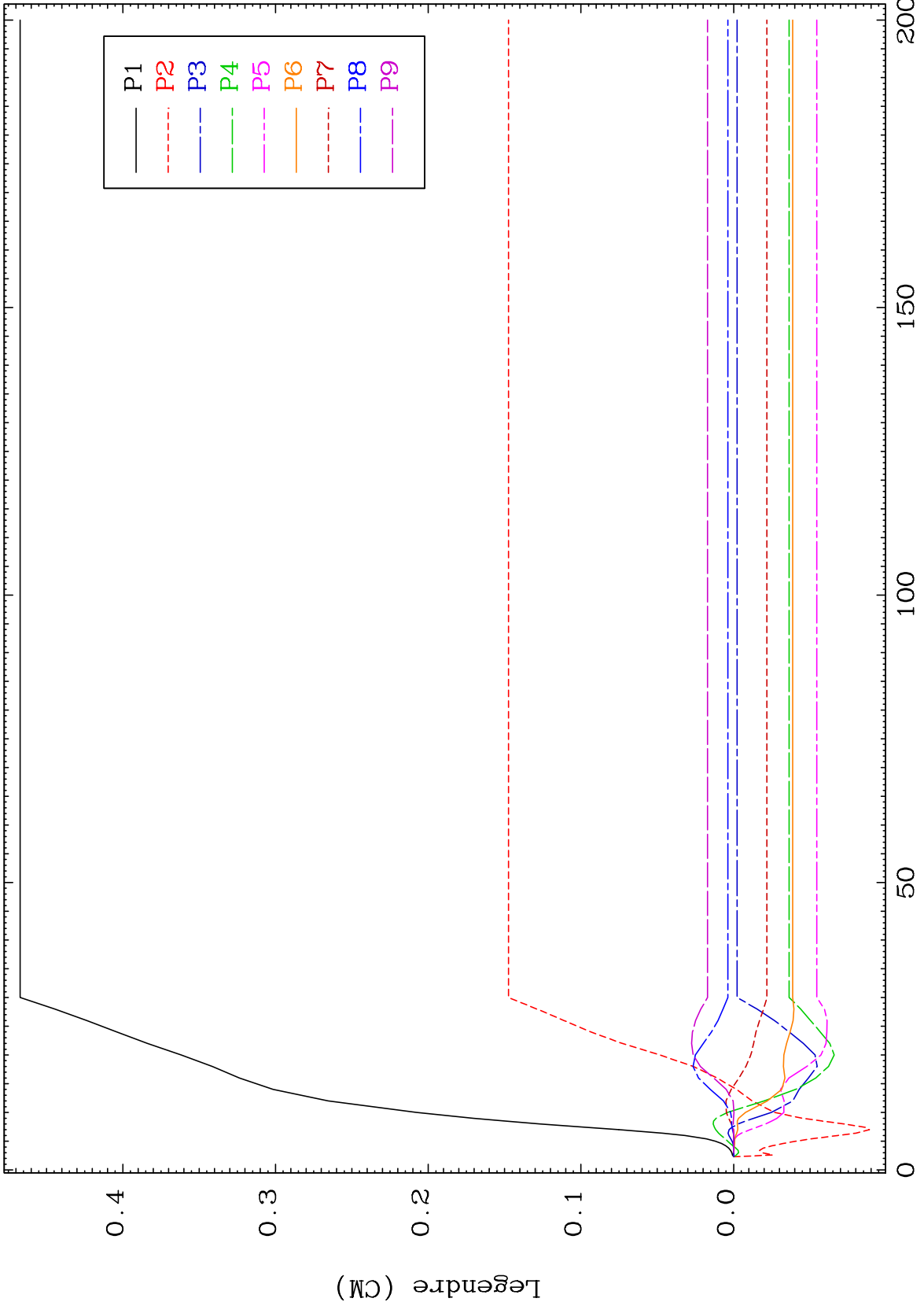
60-Nd-140

MAT 6019 MT= 59 (n,n') Level Legendre Coefficients 60-Nd-140



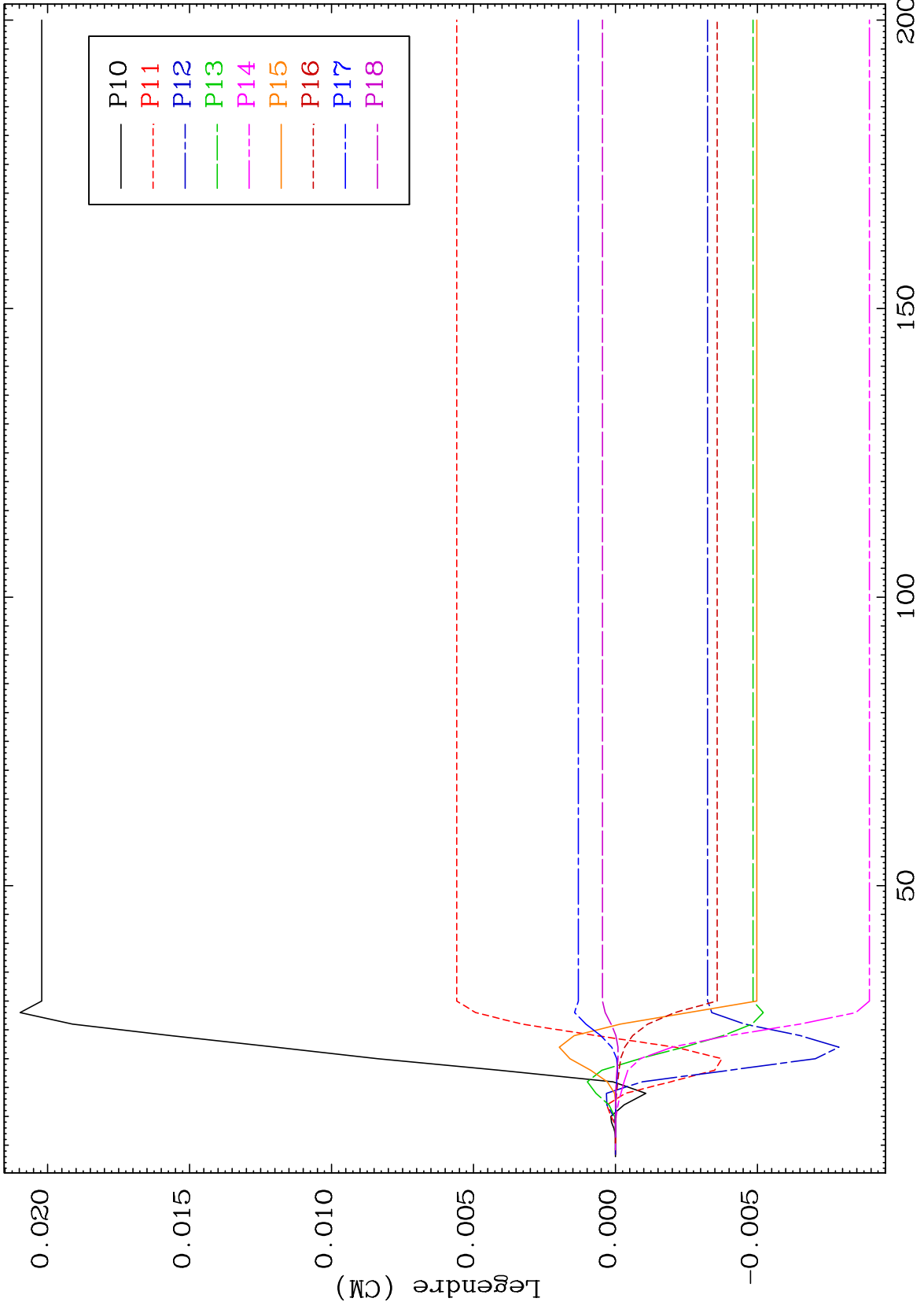
54 60-Nd-140

MAT 6019 MT= 60 (n,n') Level Legendre Coefficients 60-Nd-140



Legendre (CM) Incident Energy (MeV) 60-Nd-140

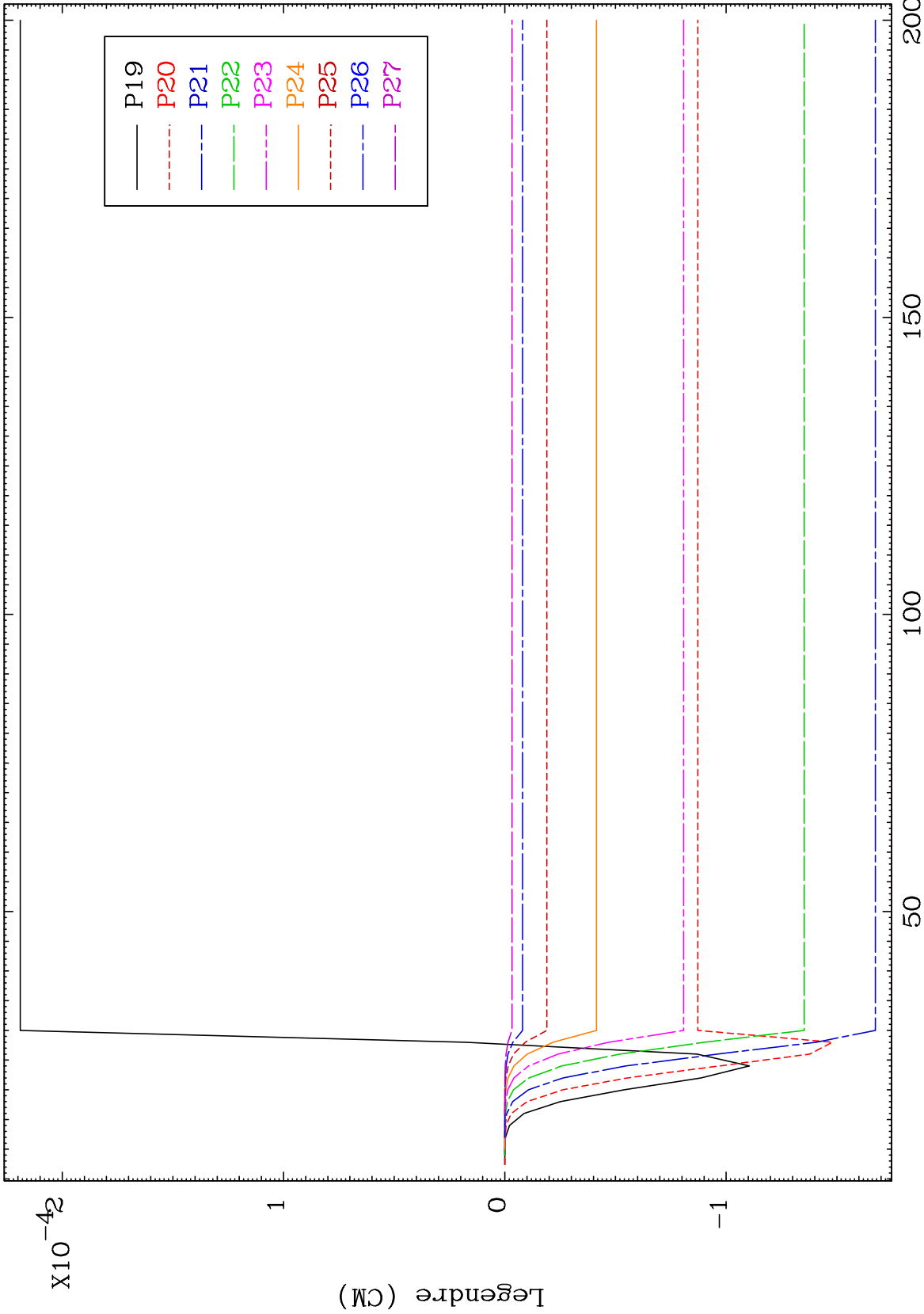
MAT 6019 MT= 60 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019

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

60-Nd-140

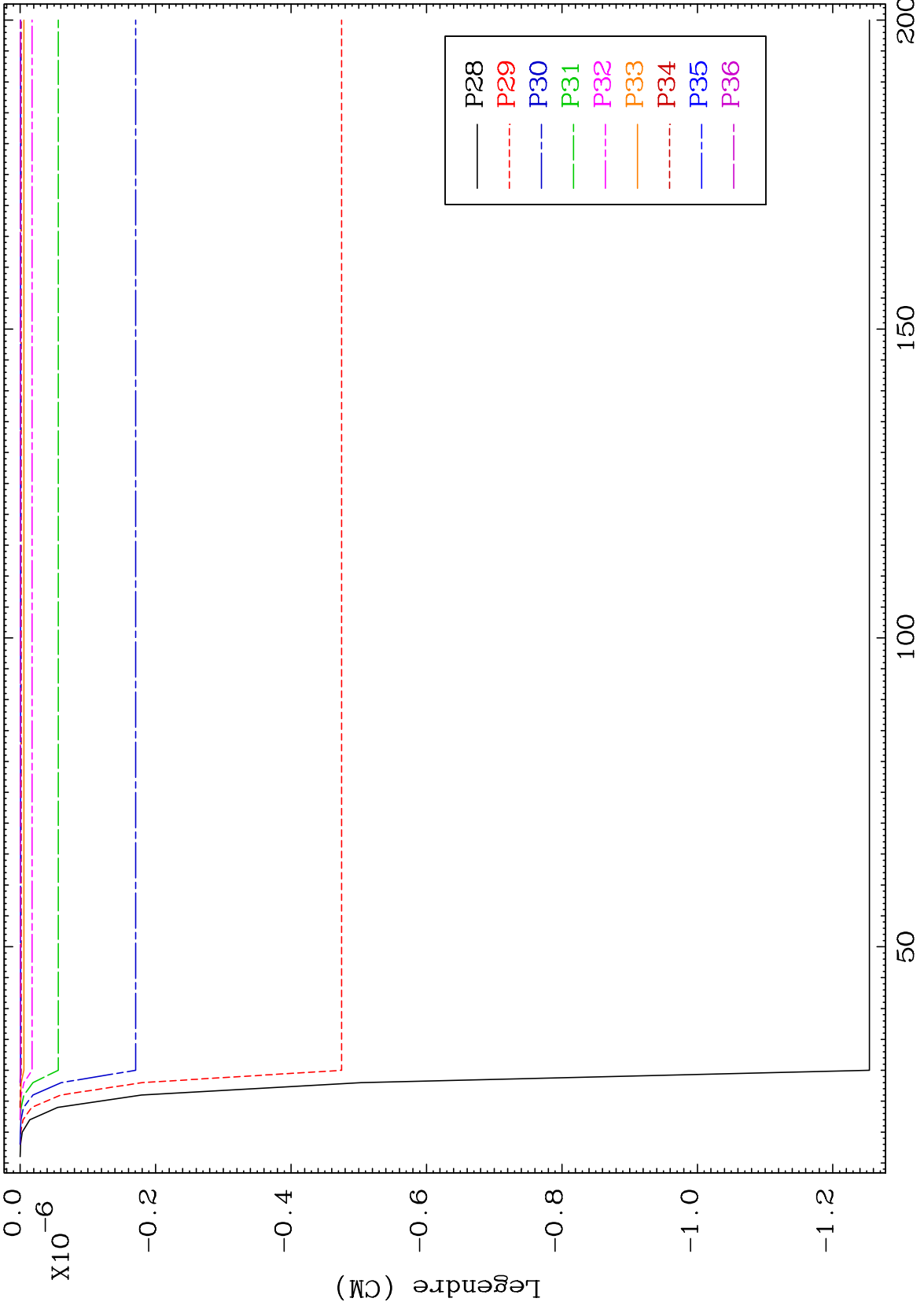


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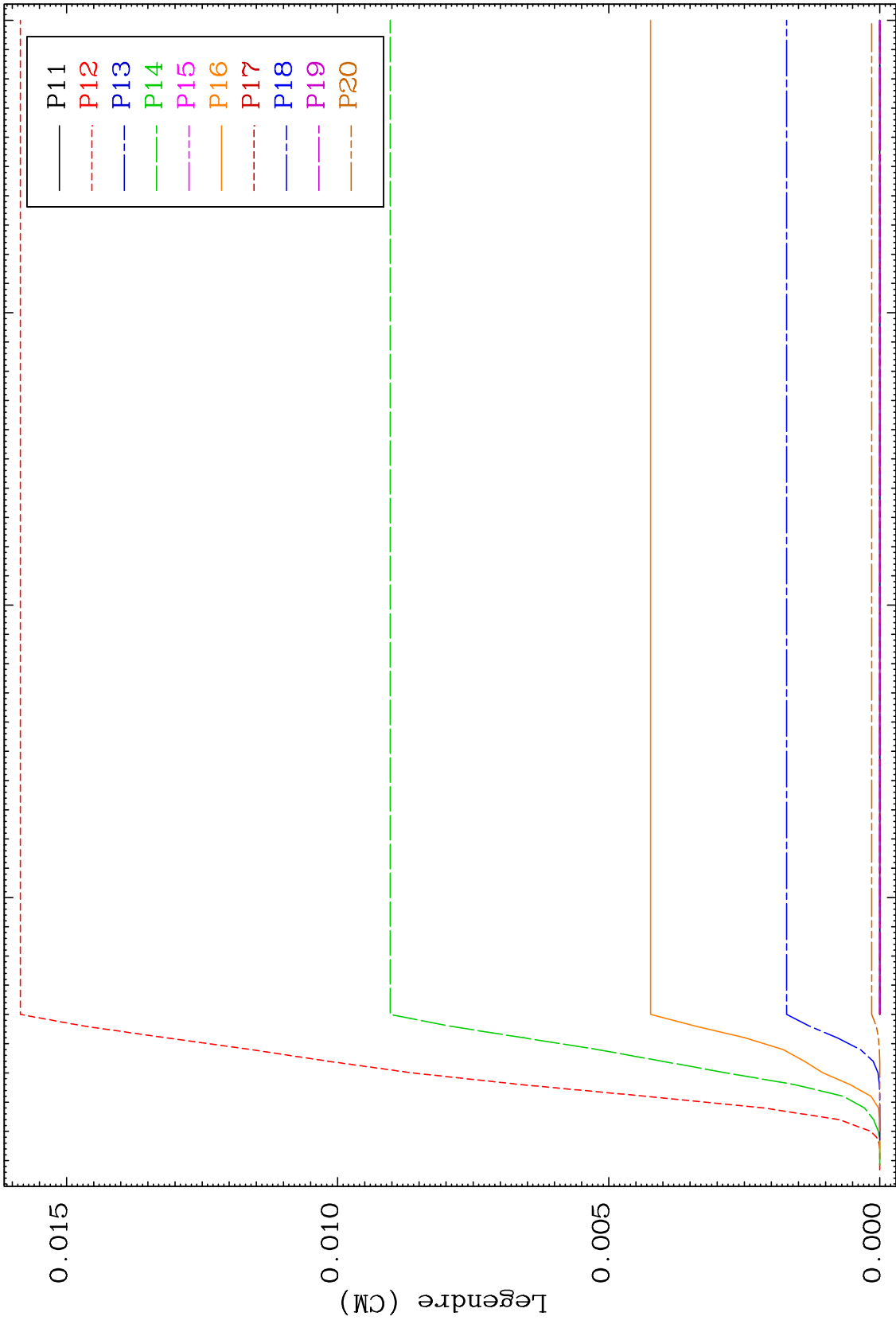
Incident Energy (MeV)

60-Nd-140

MAT 6019 MT= 60 (n,n') Level Legendre Coefficients 60-Nd-140

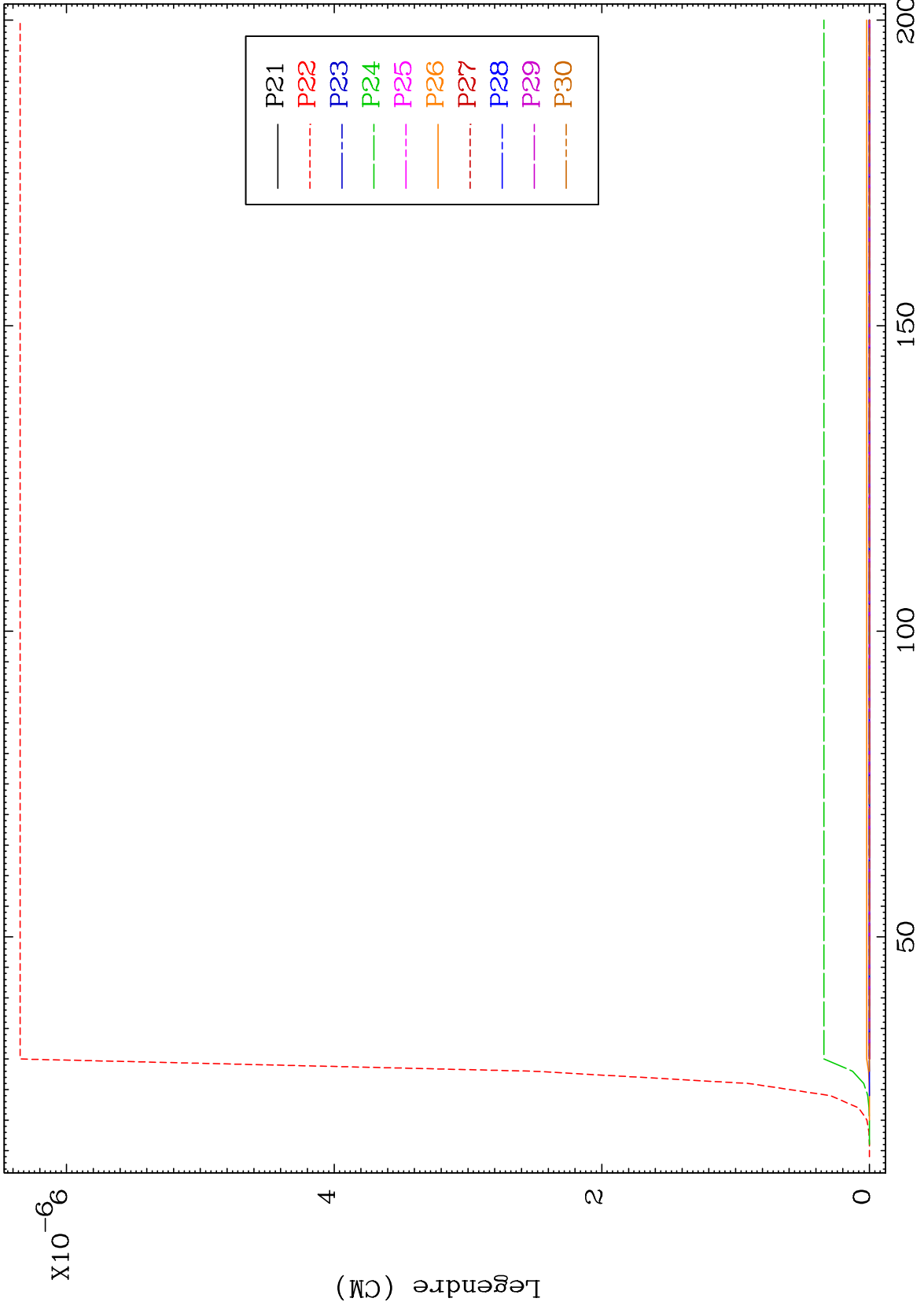


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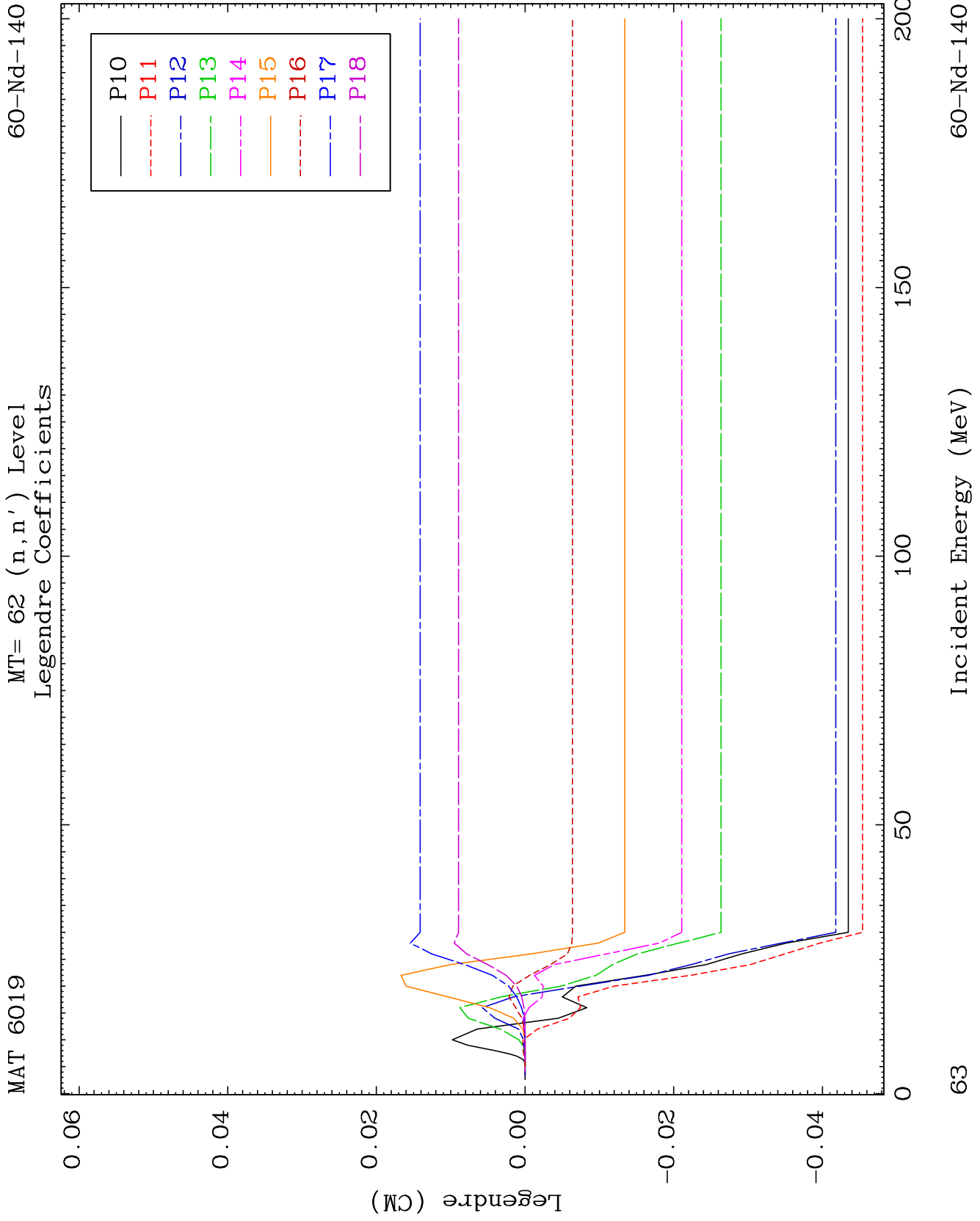


60-Nd-140

MAT 6019 MT= 61 (n,n') Level Legendre Coefficients 60-Nd-140



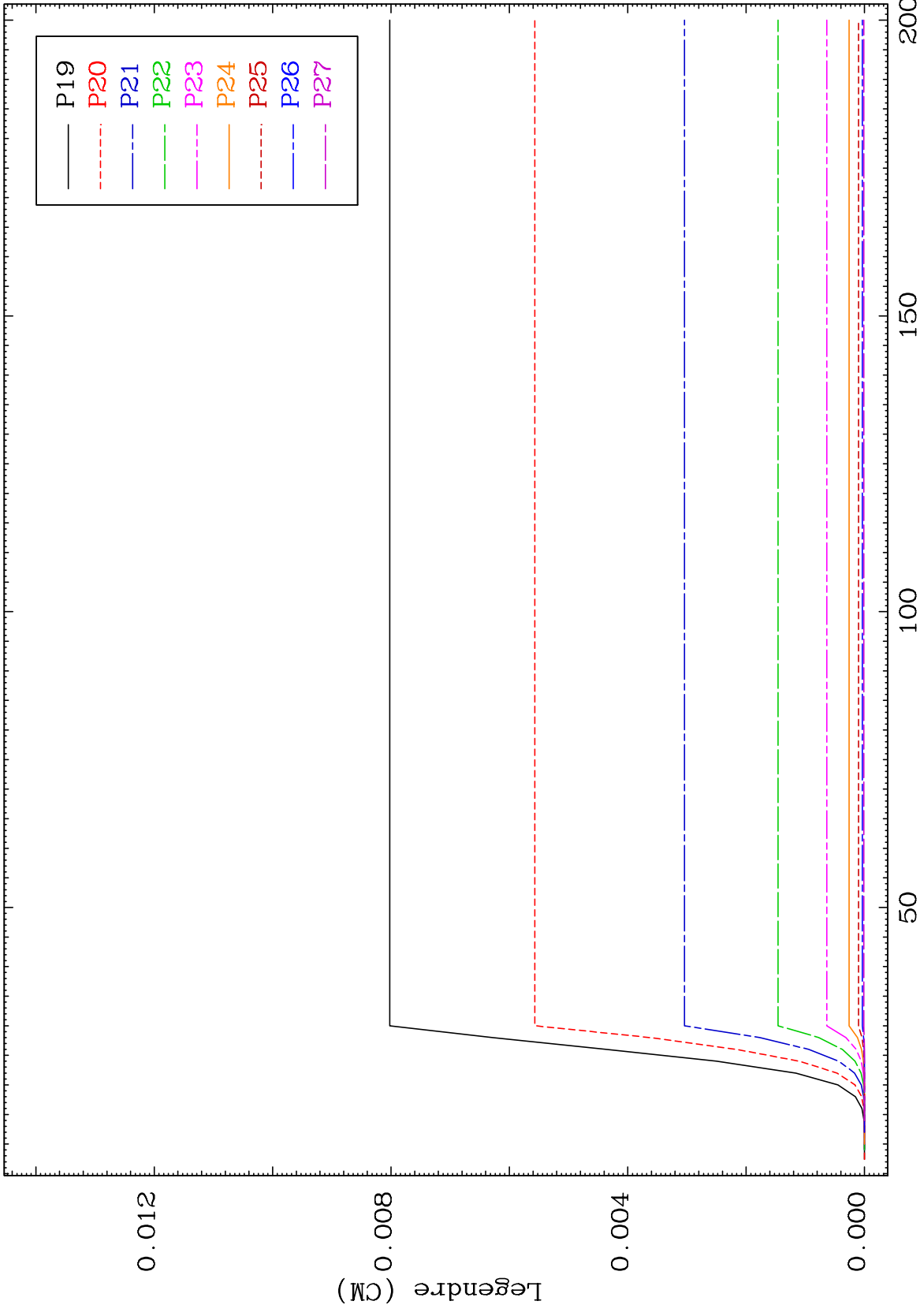
61 60-Nd-140



MAT 6019

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

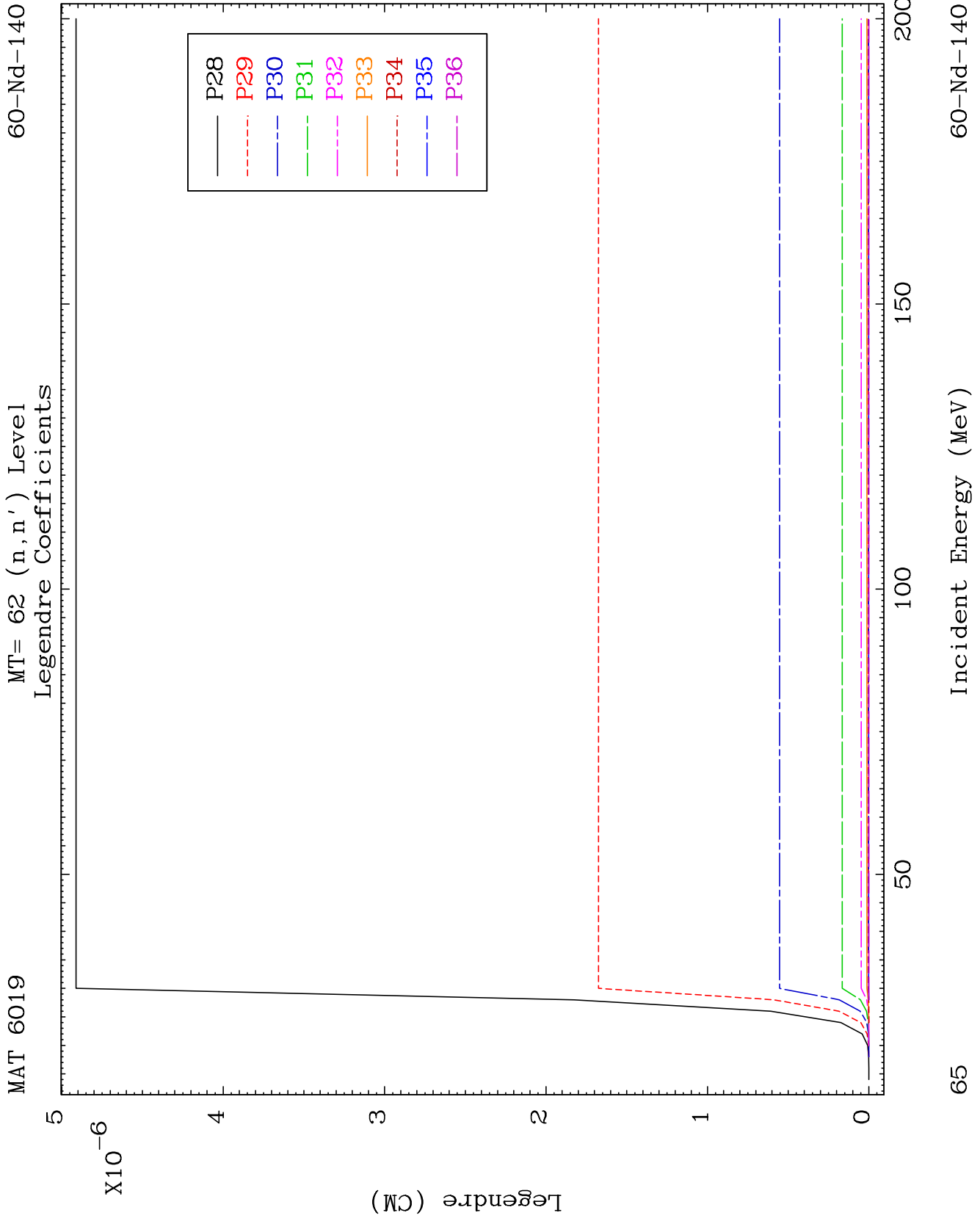
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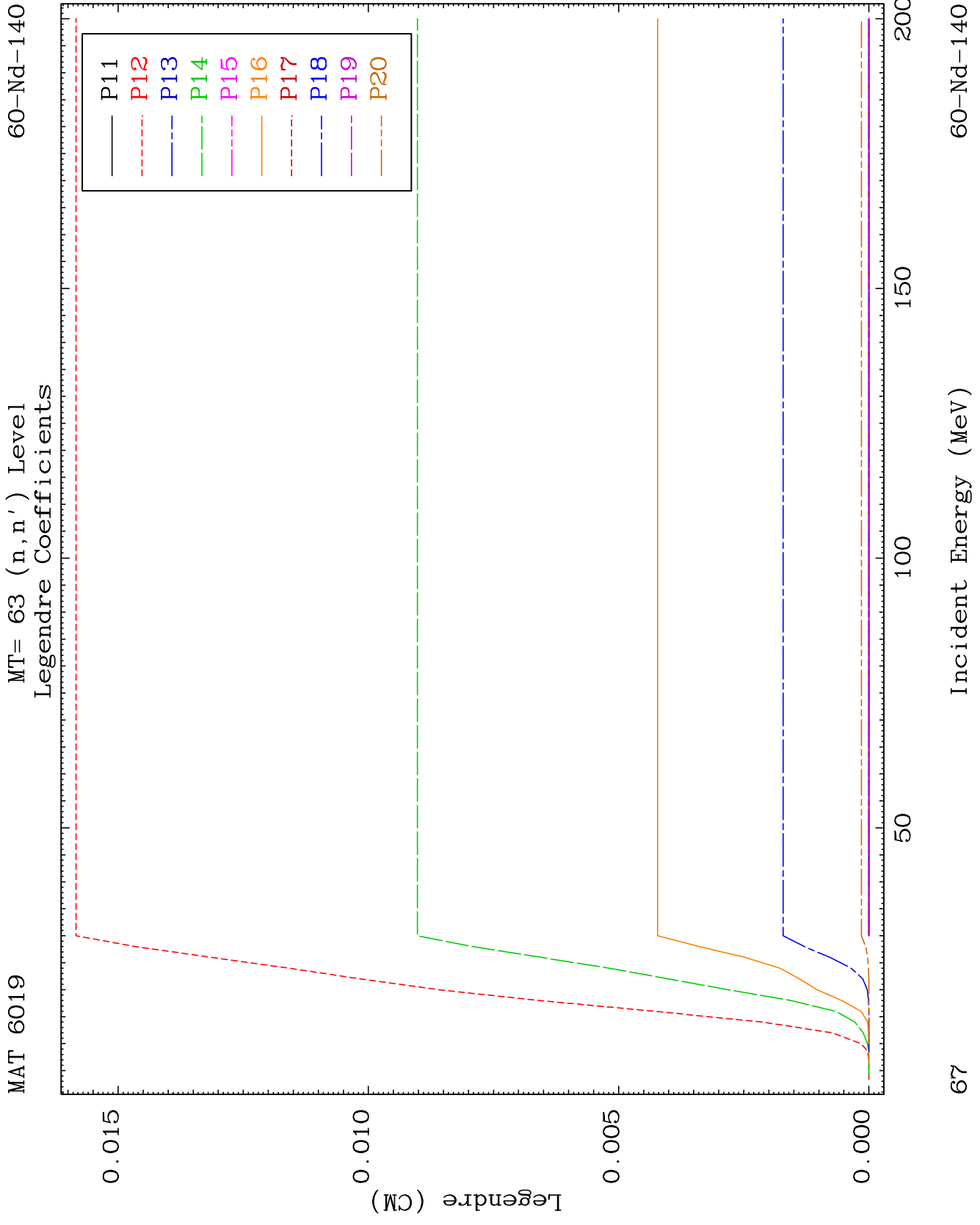


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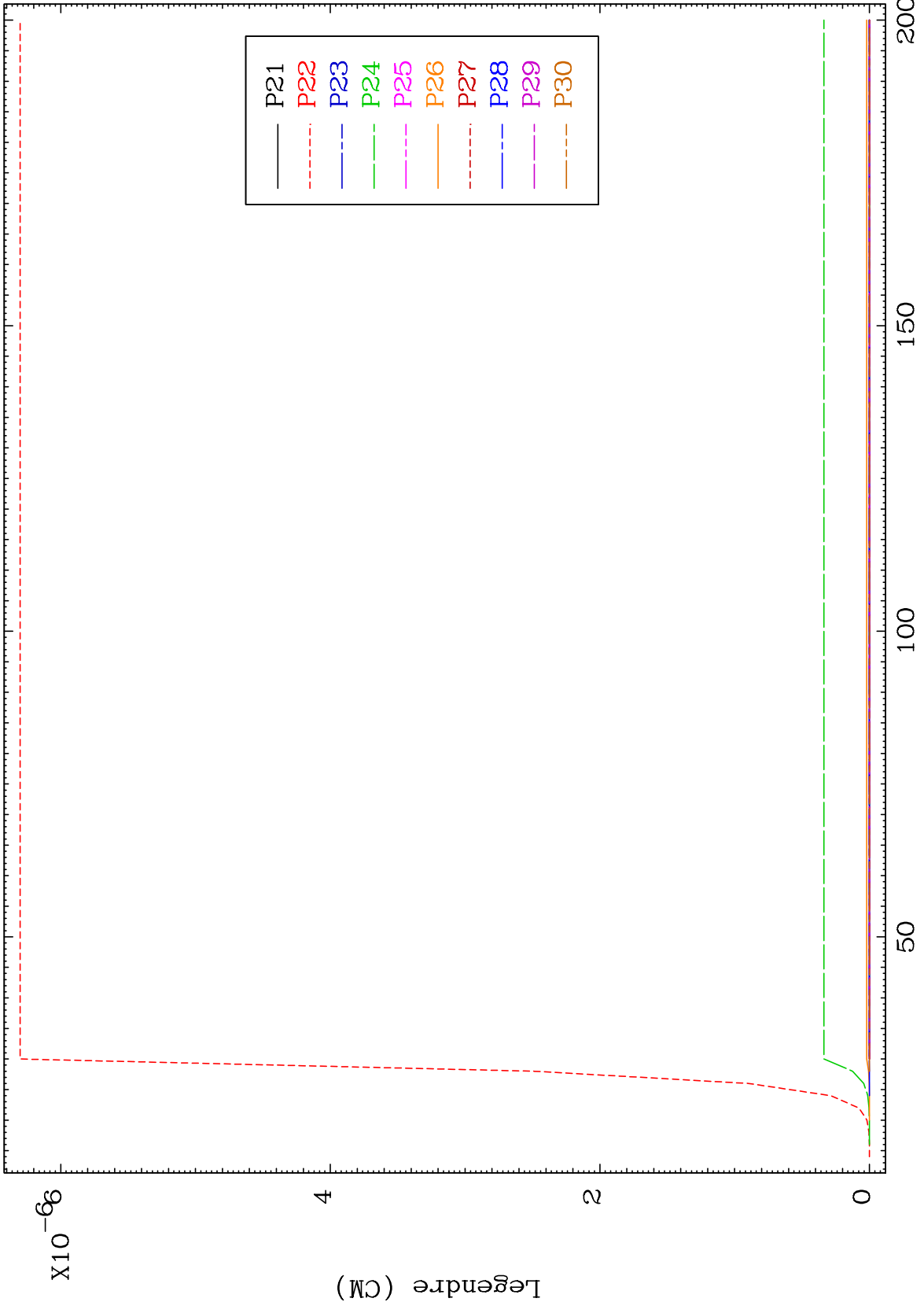
Incident Energy (MeV)

60-Nd-140



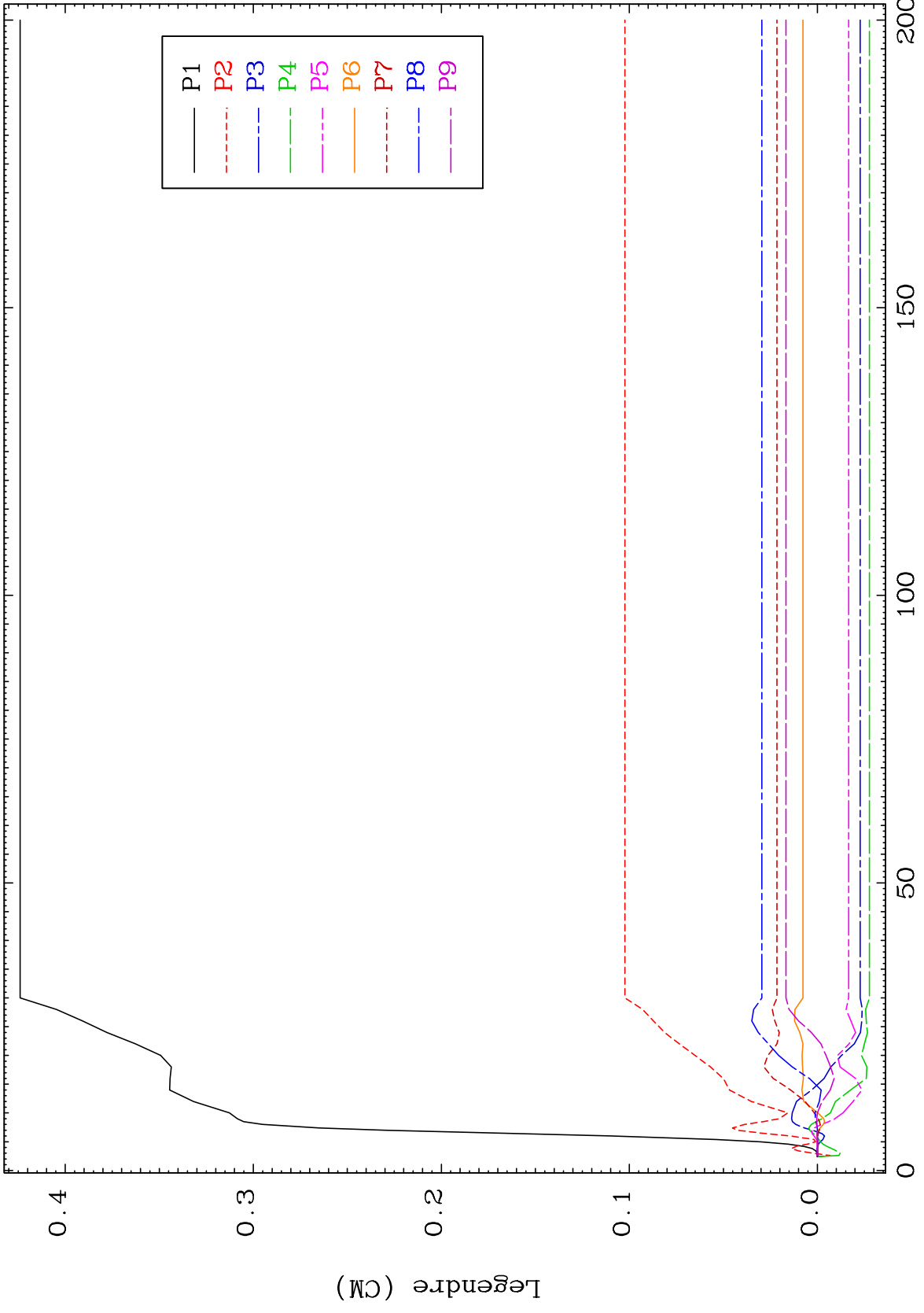


MAT 6019 MT= 63 (n,n') Level Legendre Coefficients 60-Nd-140



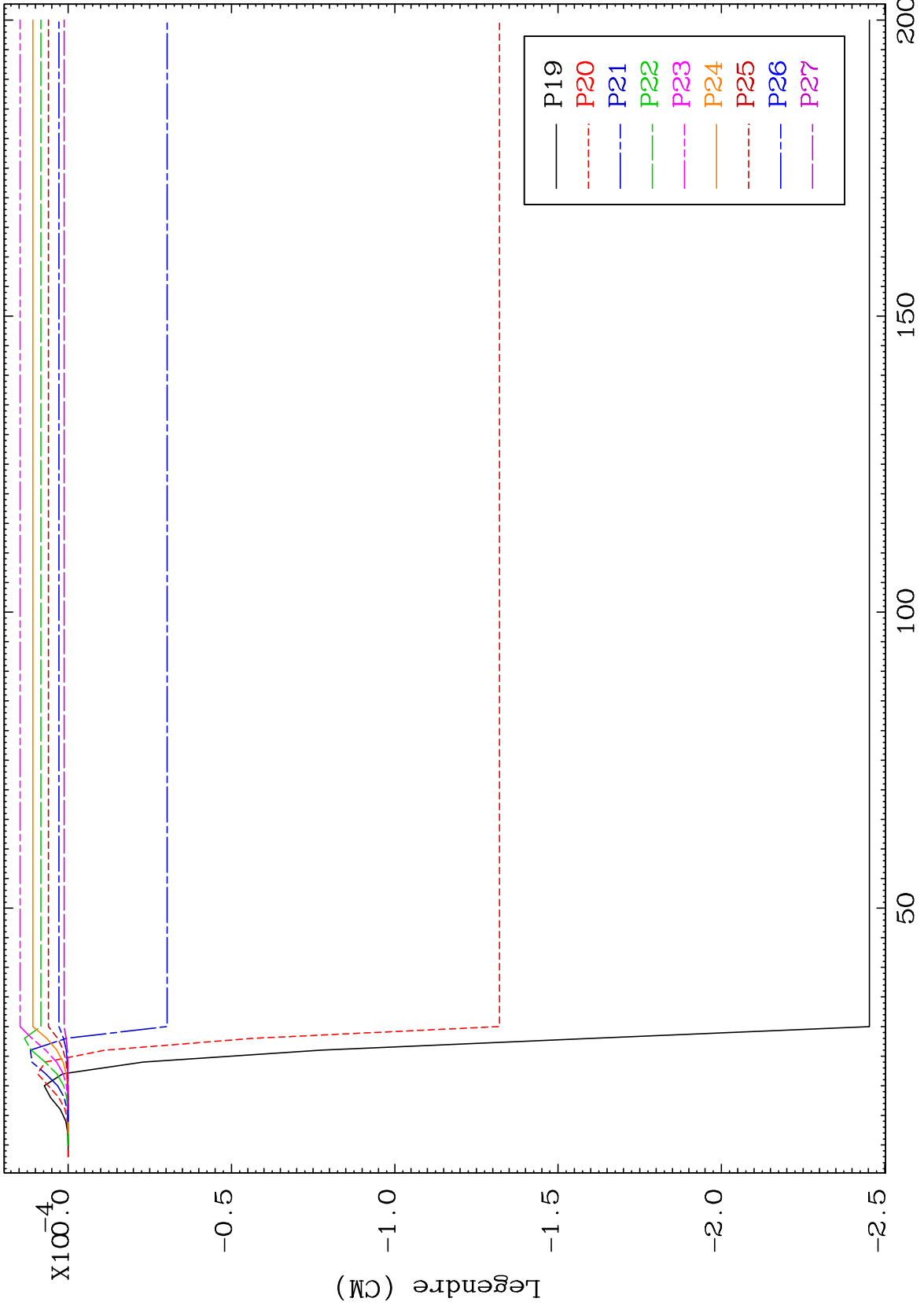
68 Incident Energy (MeV) 60-Nd-140

MAT 6019 MT= 64 (n,n') Level Legendre Coefficients 60-Nd-140

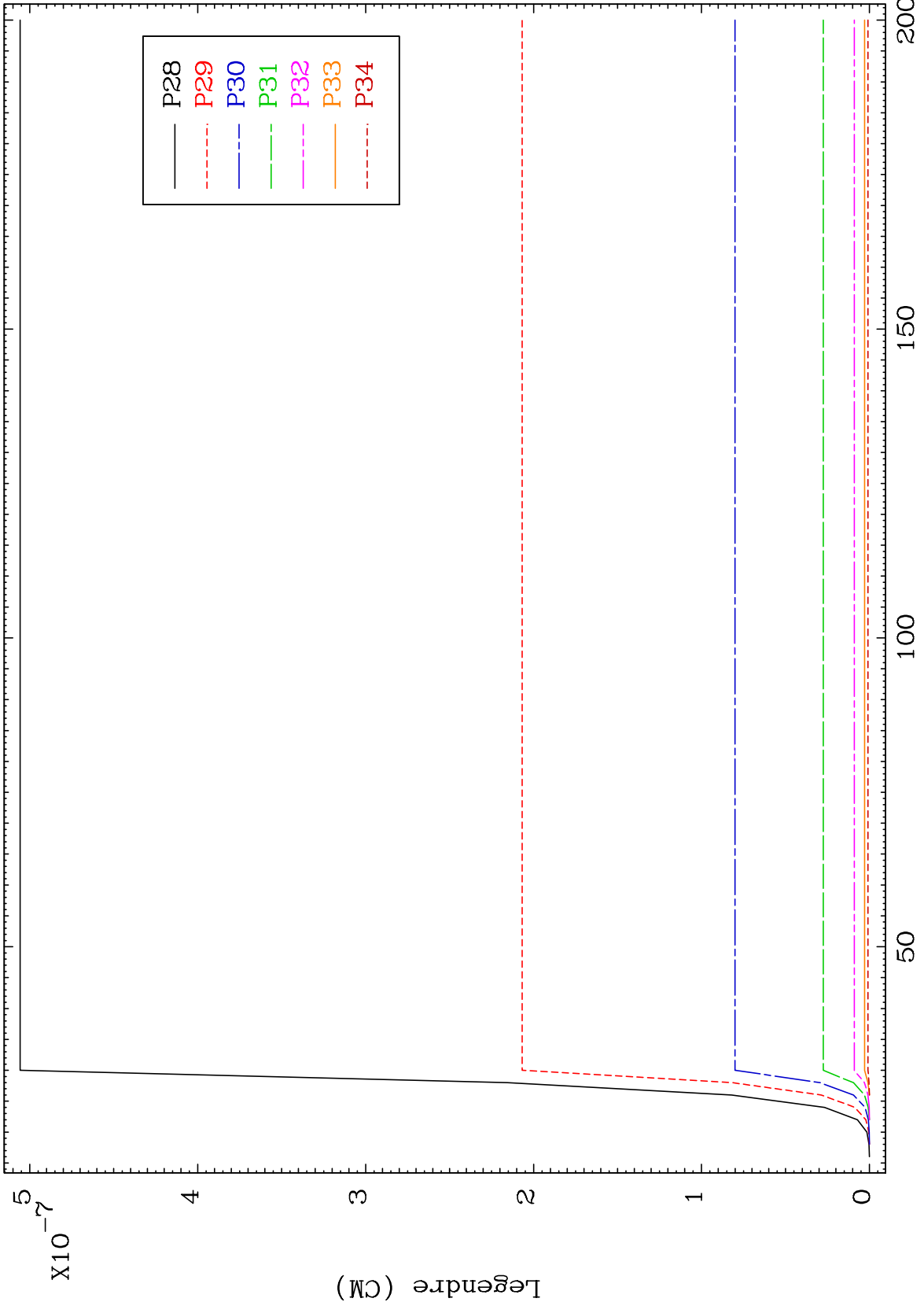


69 60-Nd-140

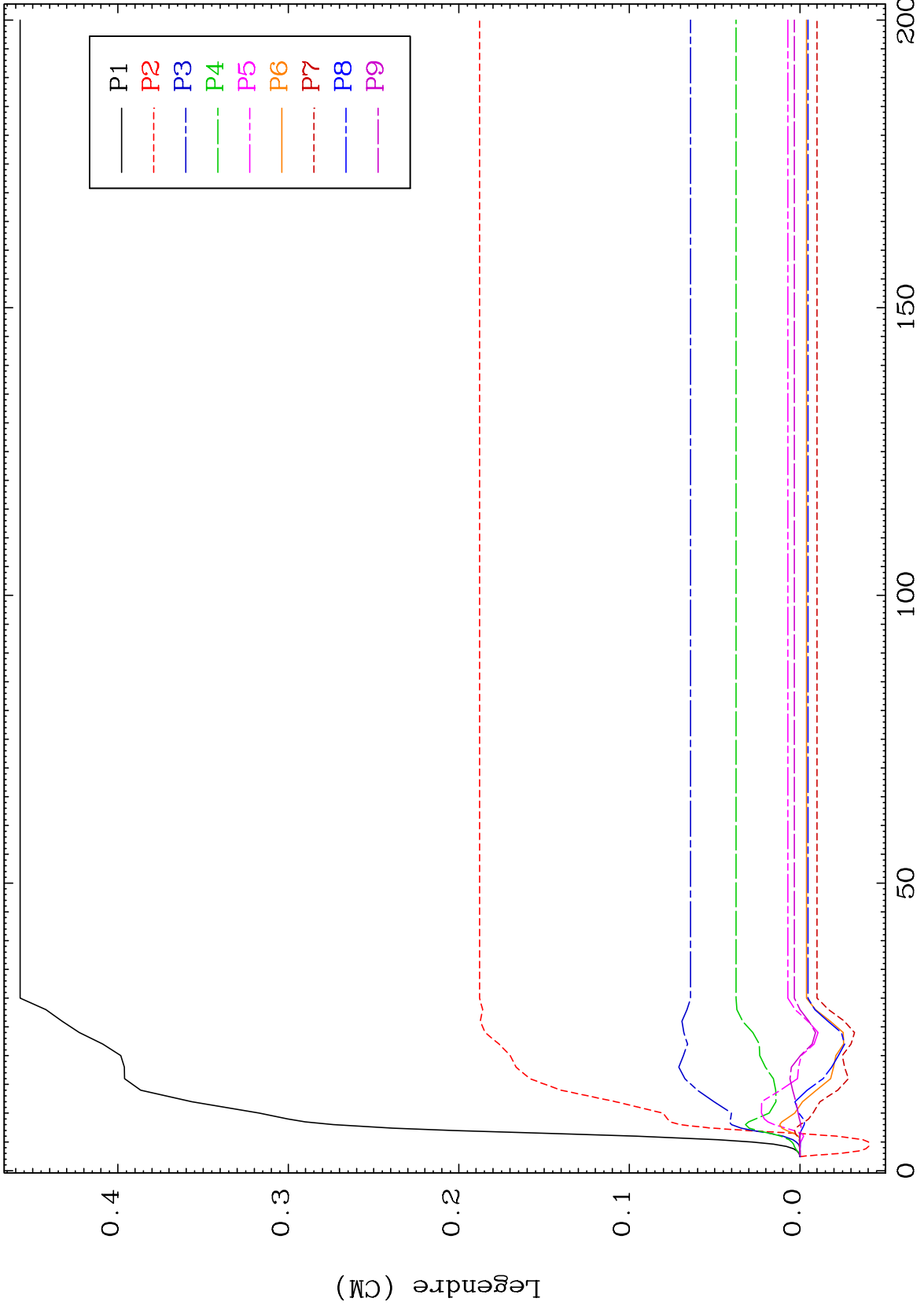
MAT 6019 MT= 64 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019 MT= 64 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019 MT= 65 (n,n') Level Legendre Coefficients 60-Nd-140



73 60-Nd-140

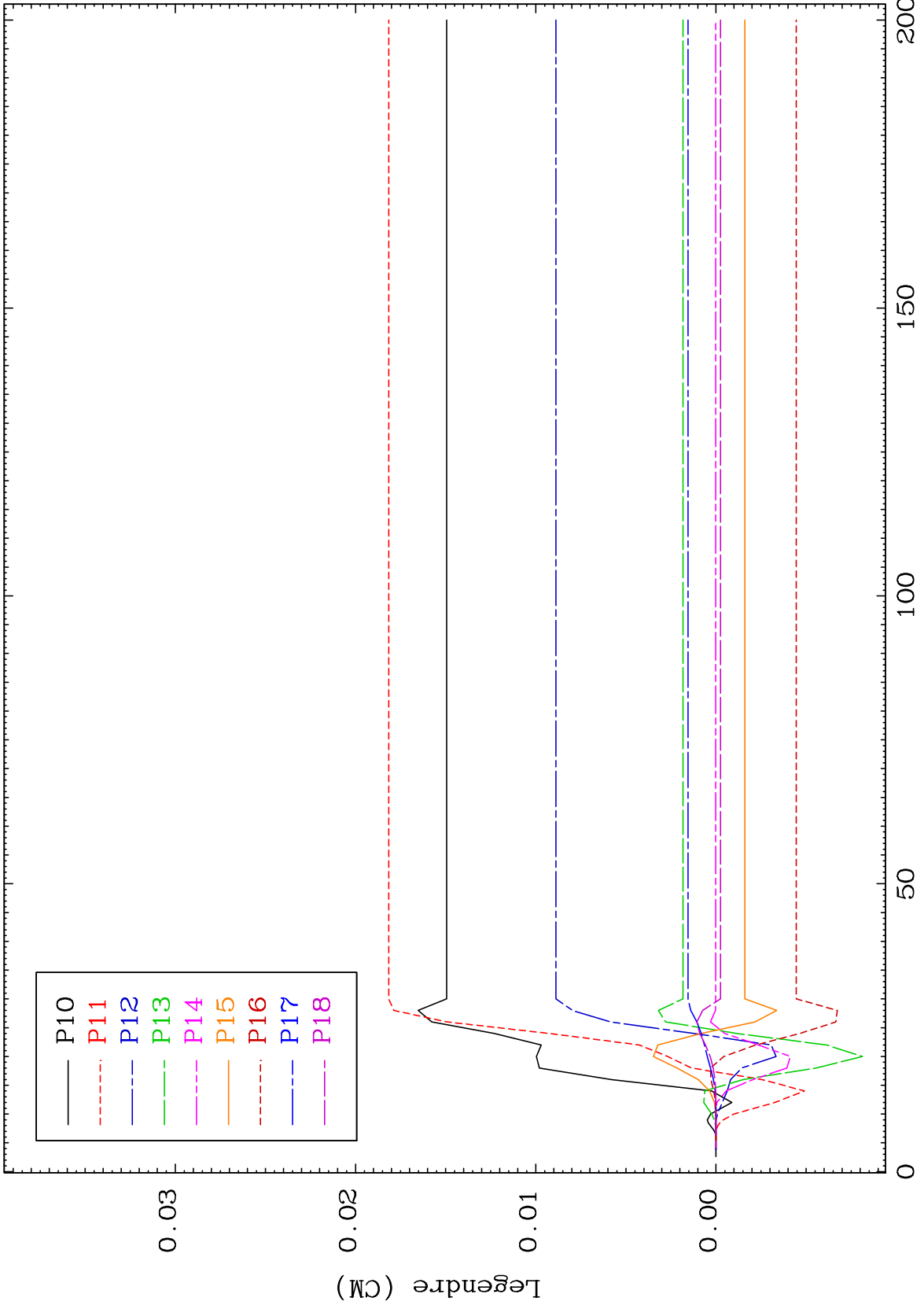
MAT 6019 MT= 65 (n,n') Level Legendre Coefficients

60-Nd-140

60-Nd-140

Incident Energy (MeV)

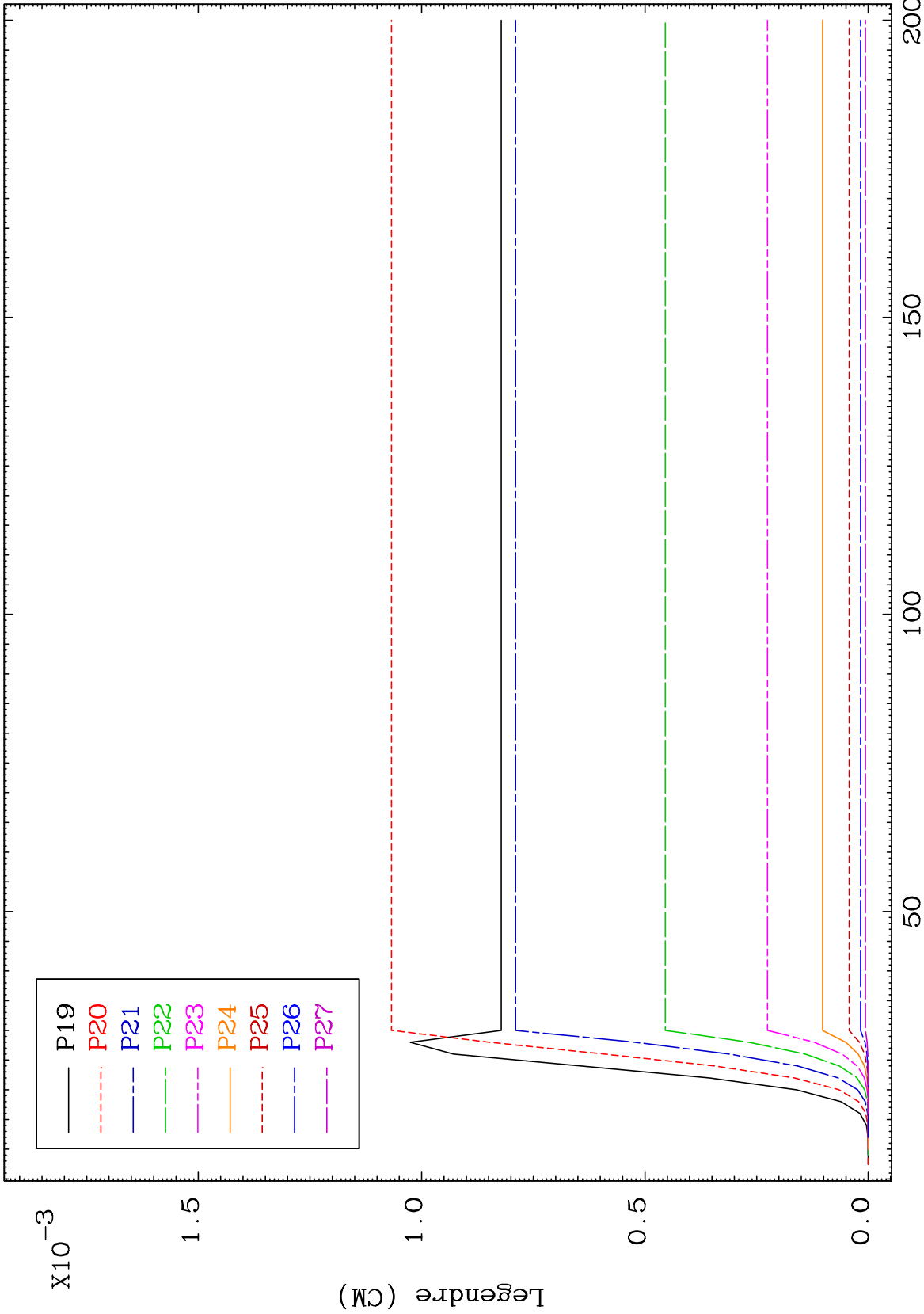
74



MAT 6019

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

60-Nd-140

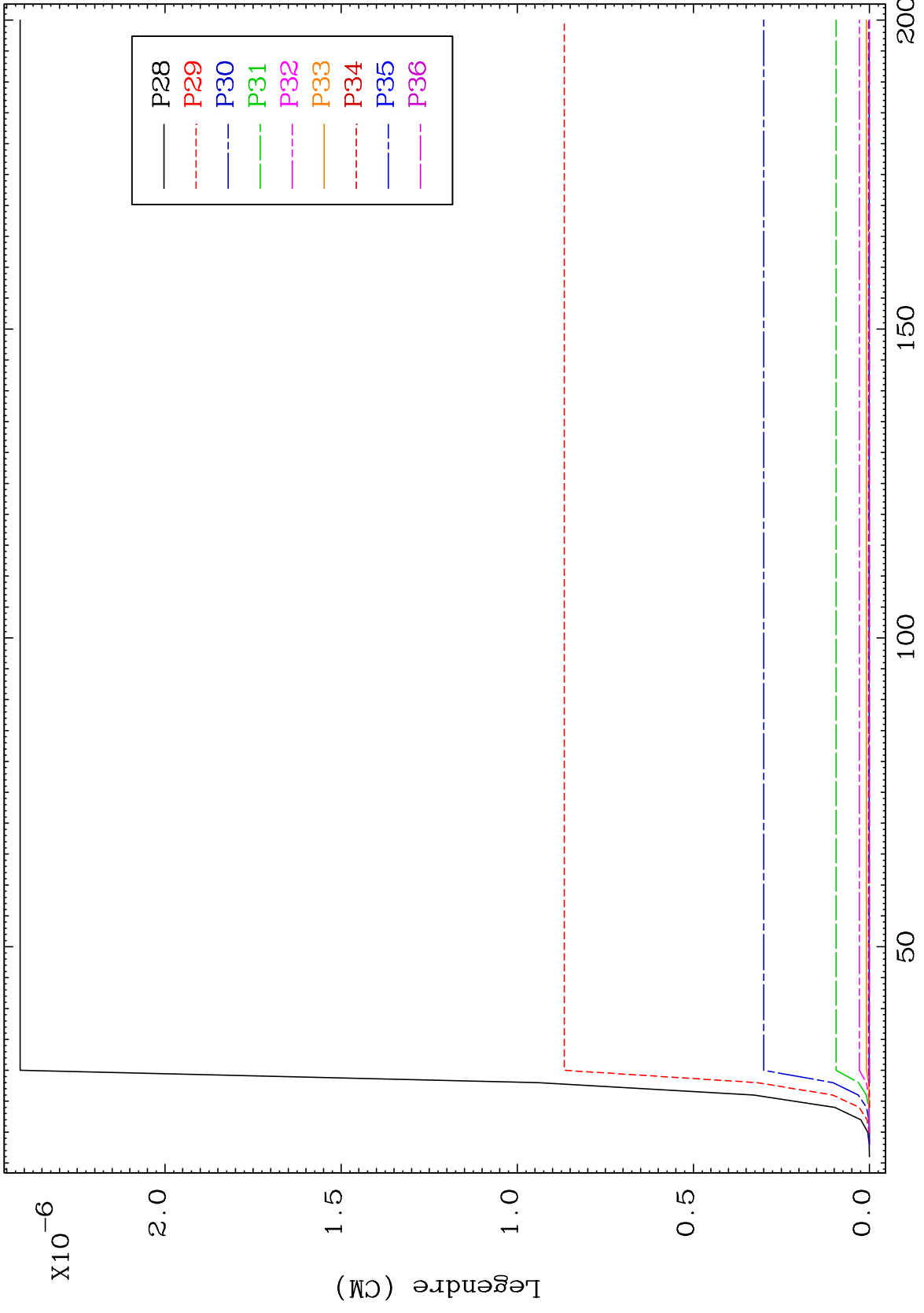


75

Incident Energy (MeV)

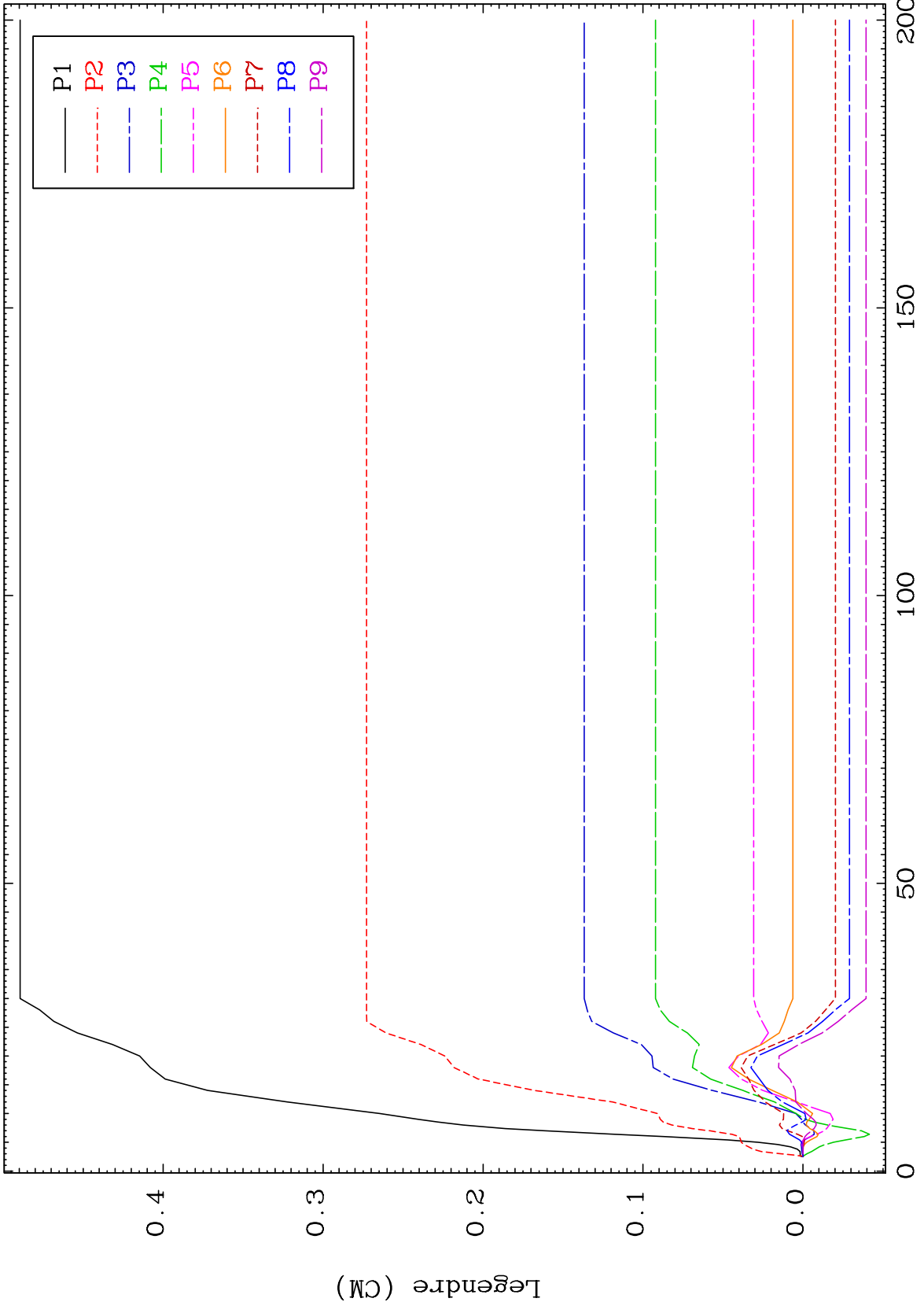
60-Nd-140

MAT 6019 MT= 65 (n,n') Level Legendre Coefficients 60-Nd-140



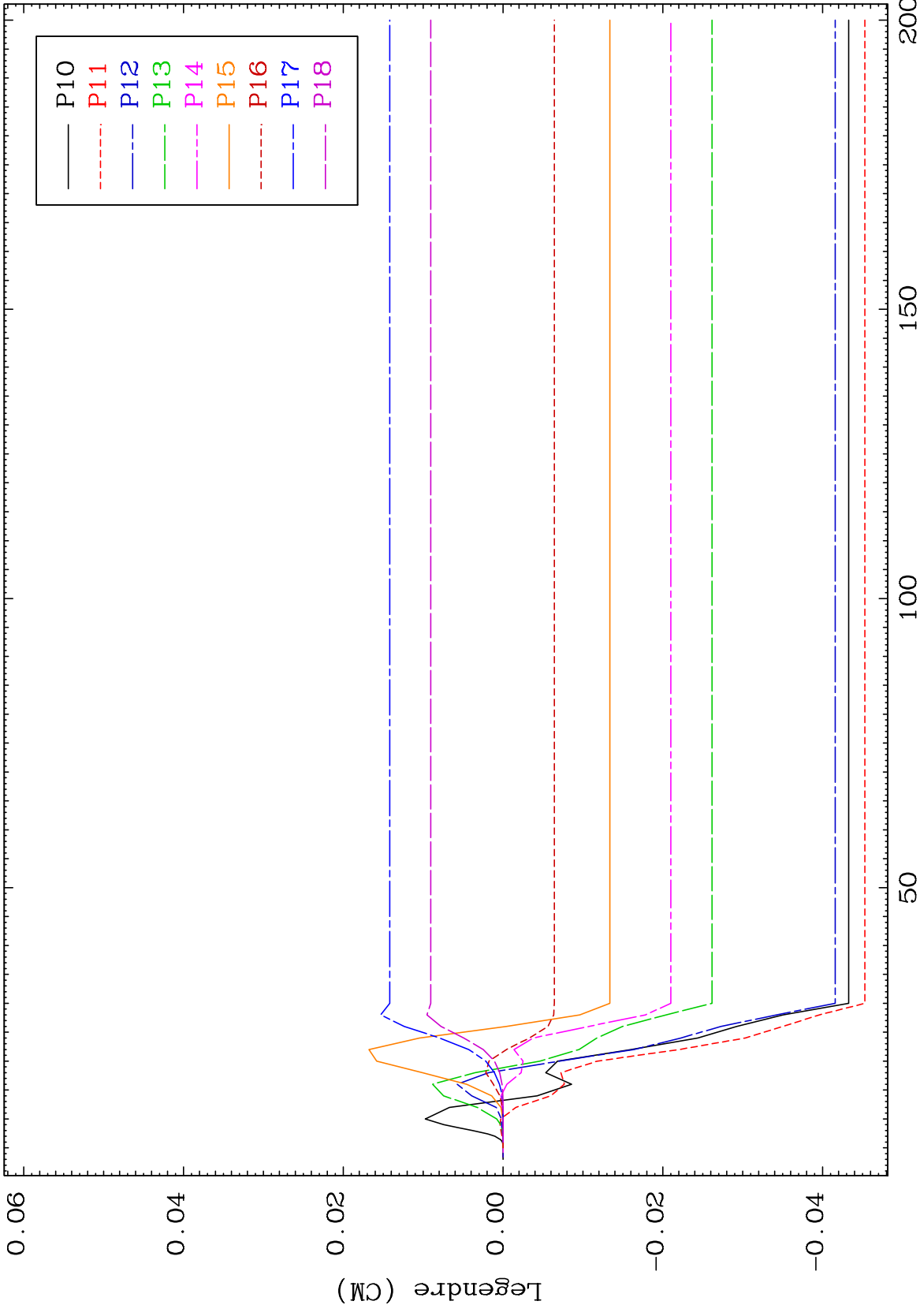
76 60-Nd-140

MAT 6019 MT= 66 (n,n') Level Legendre Coefficients 60-Nd-140



77 60-Nd-140

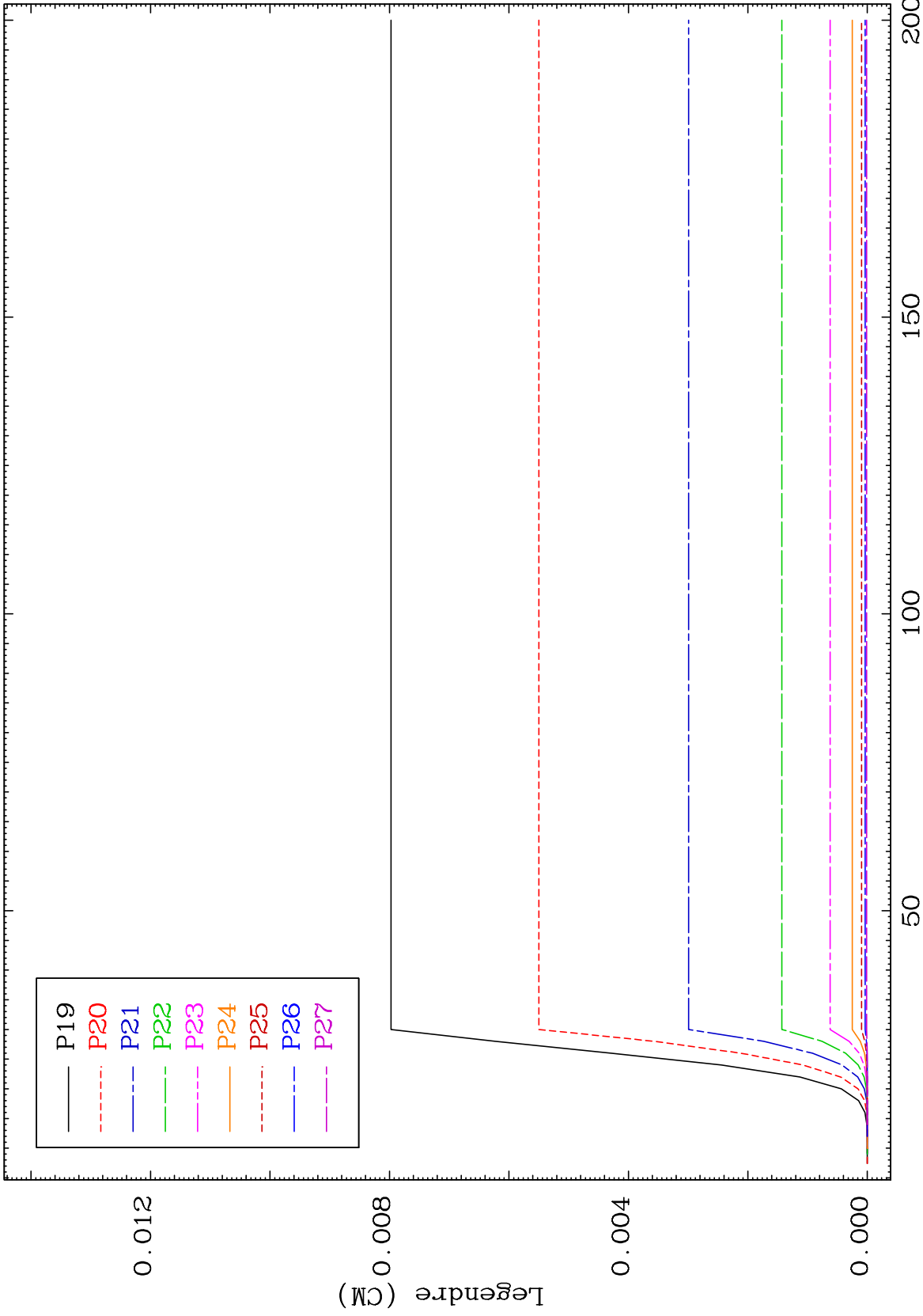
MAT 6019 MT= 66 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019

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

60-Nd-140

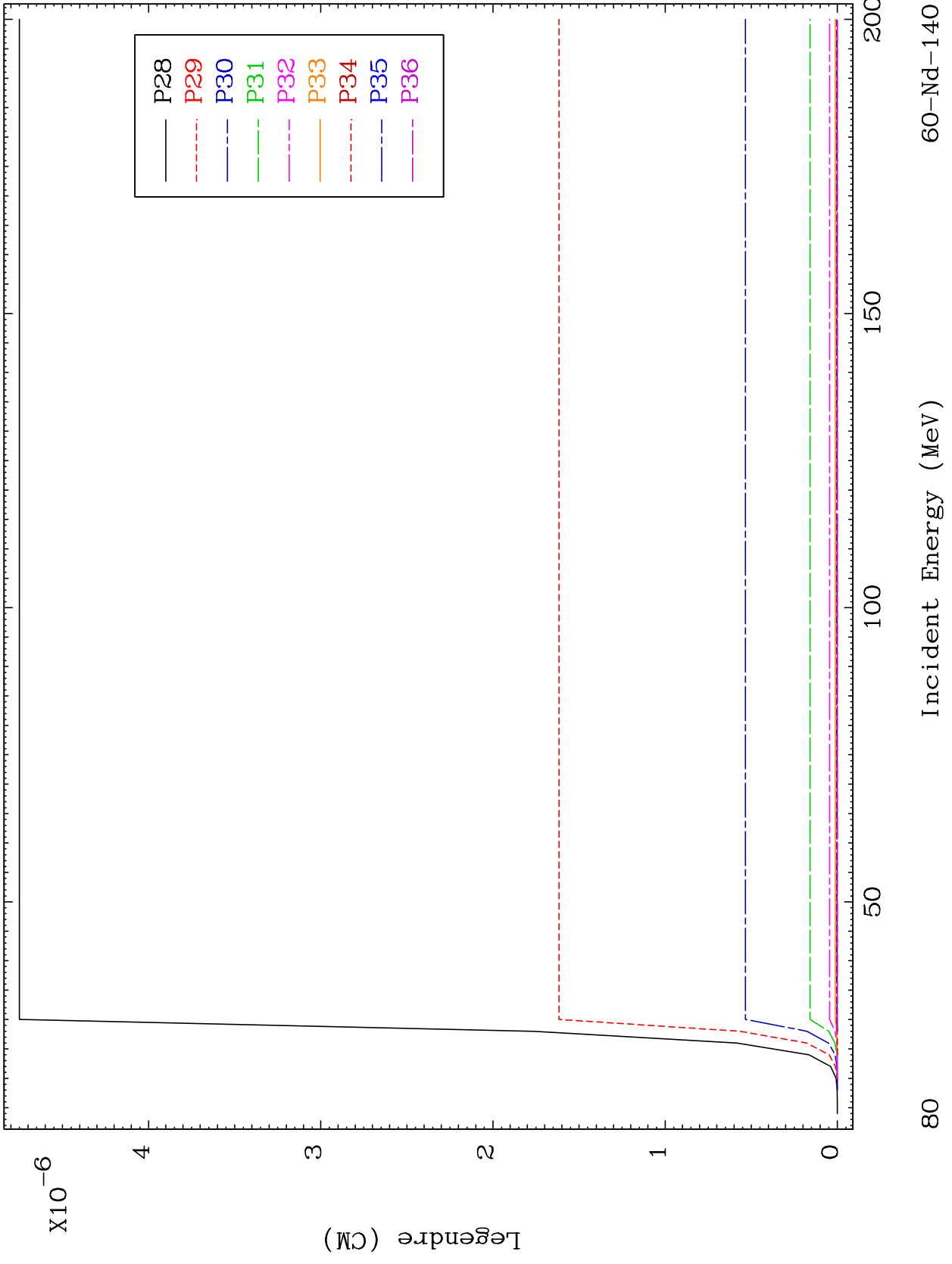


79

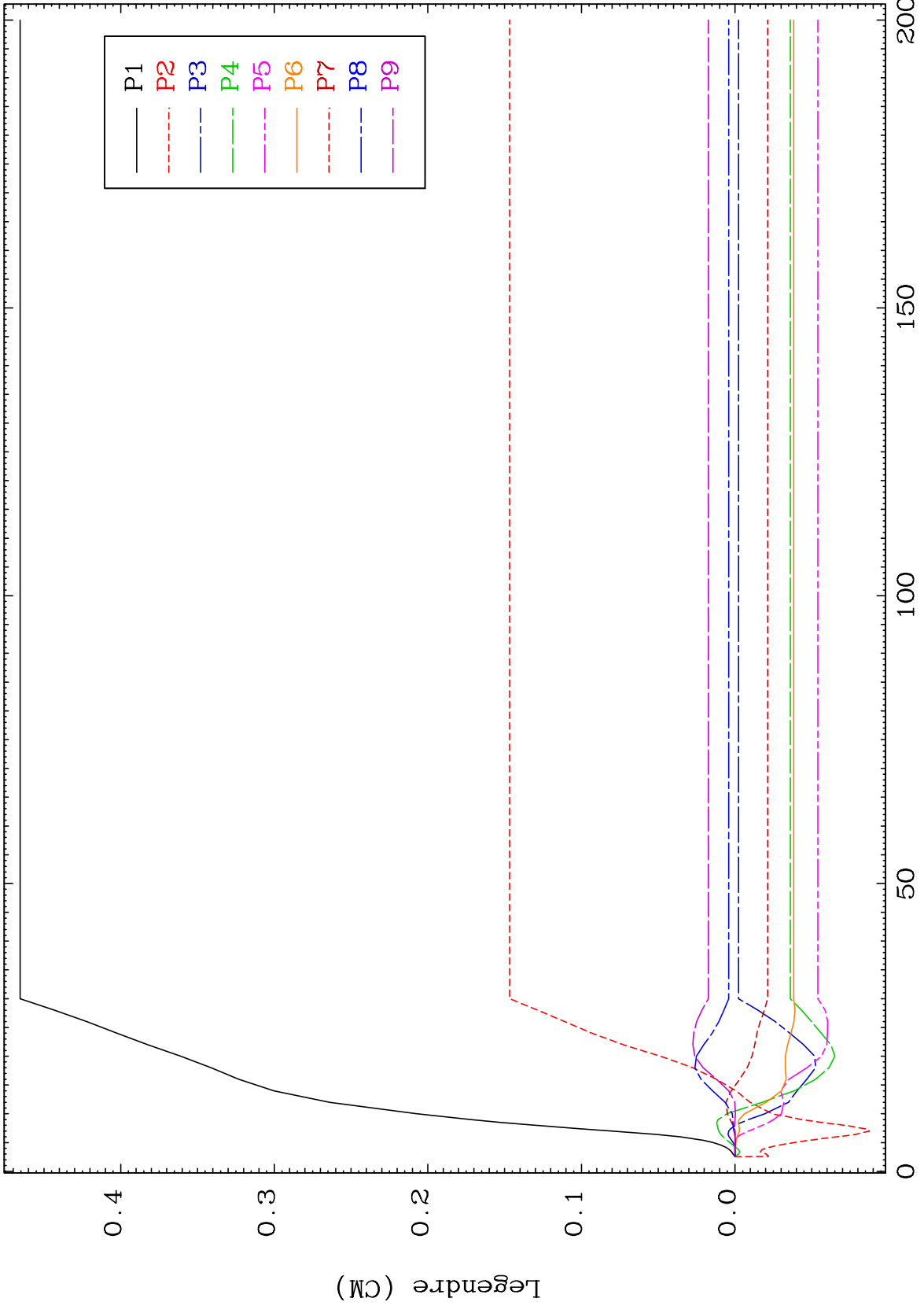
Incident Energy (MeV)

60-Nd-140

MAT 6019 MT= 66 (n,n') Level Legendre Coefficients 60-Nd-140

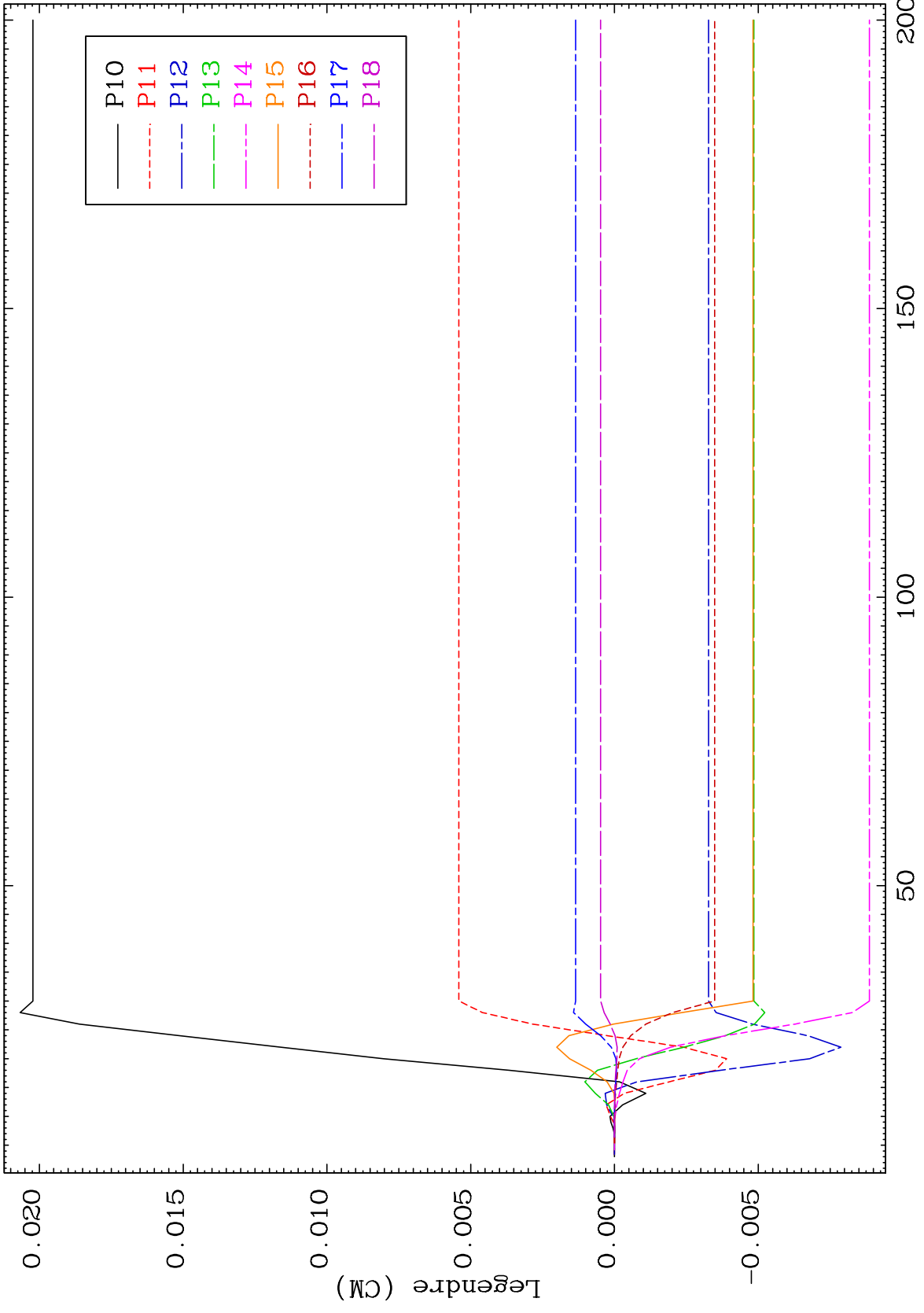


MAT 6019 MT= 67 (n,n') Level Legendre Coefficients 60-Nd-140



81 60-Nd-140

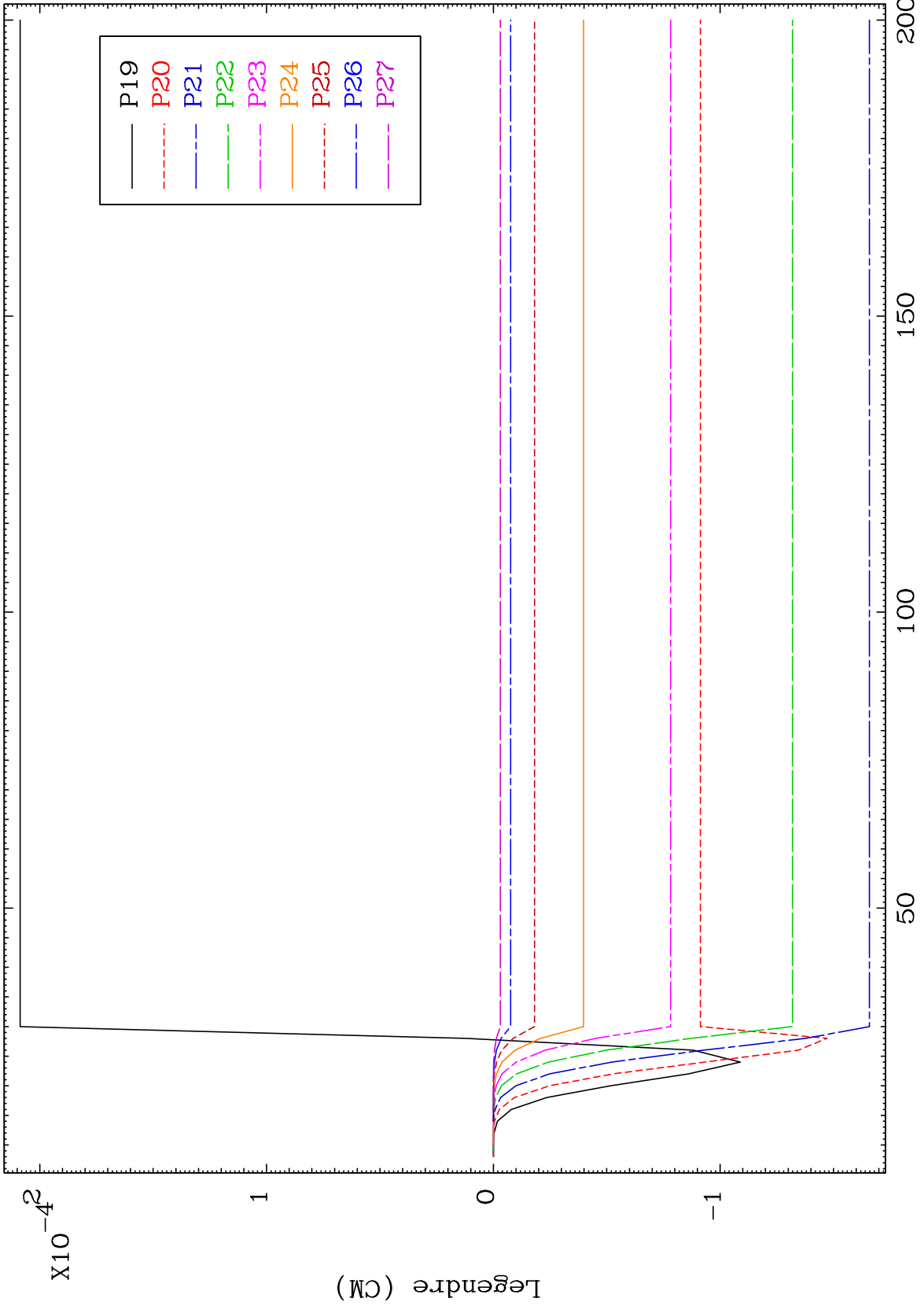
MAT 6019 MT= 67 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019

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

60-Nd-140

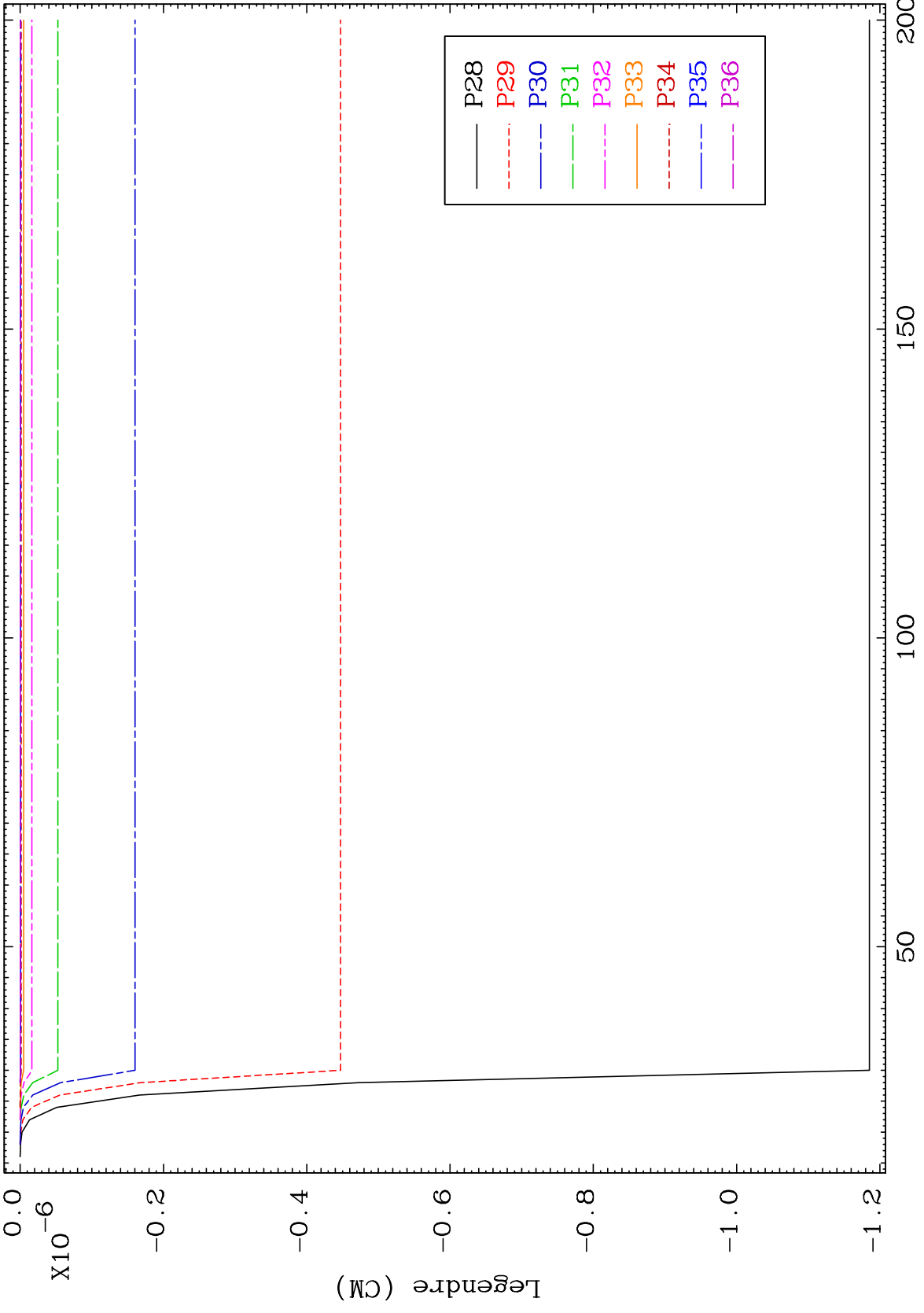


83

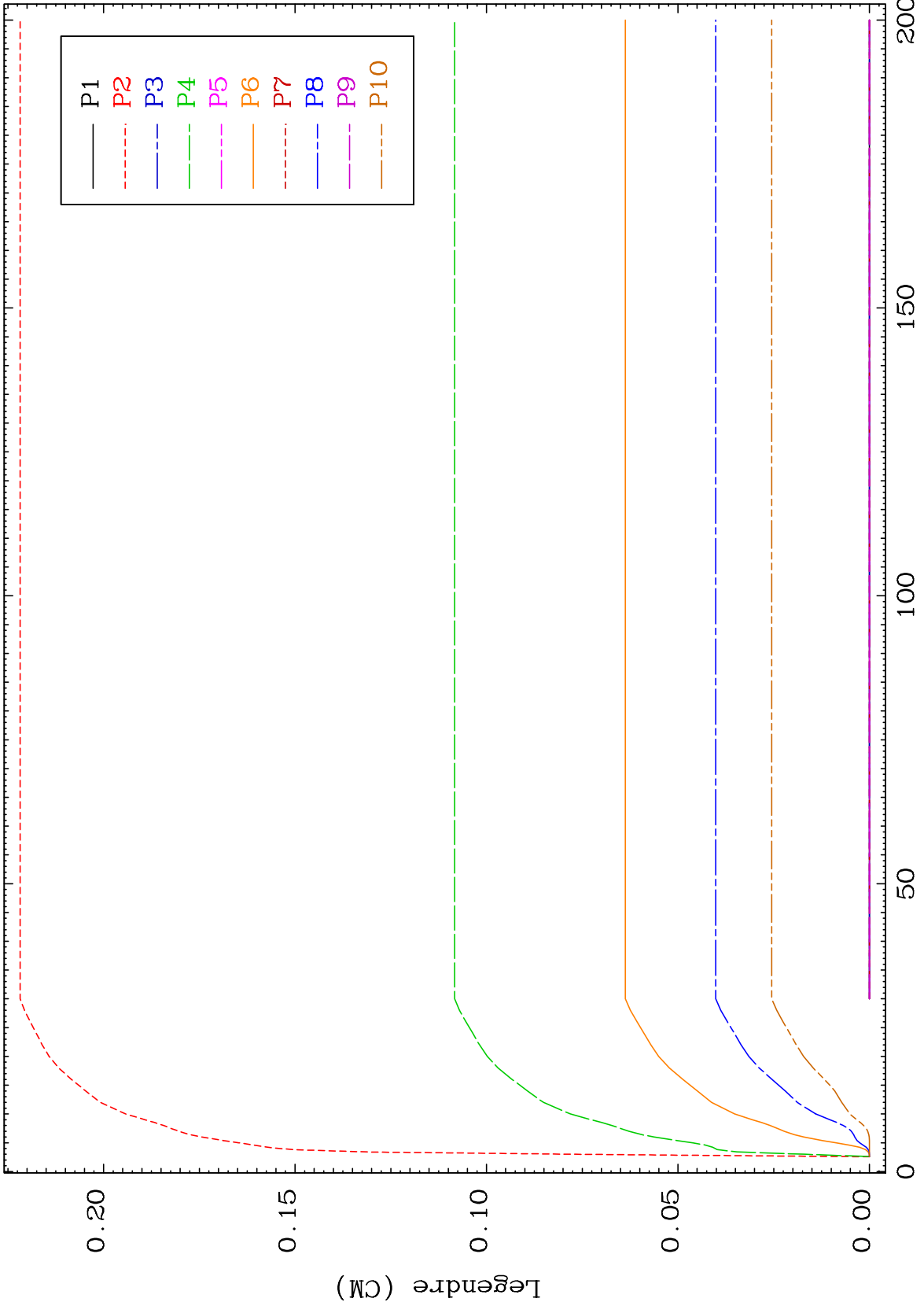
Incident Energy (MeV)

60-Nd-140

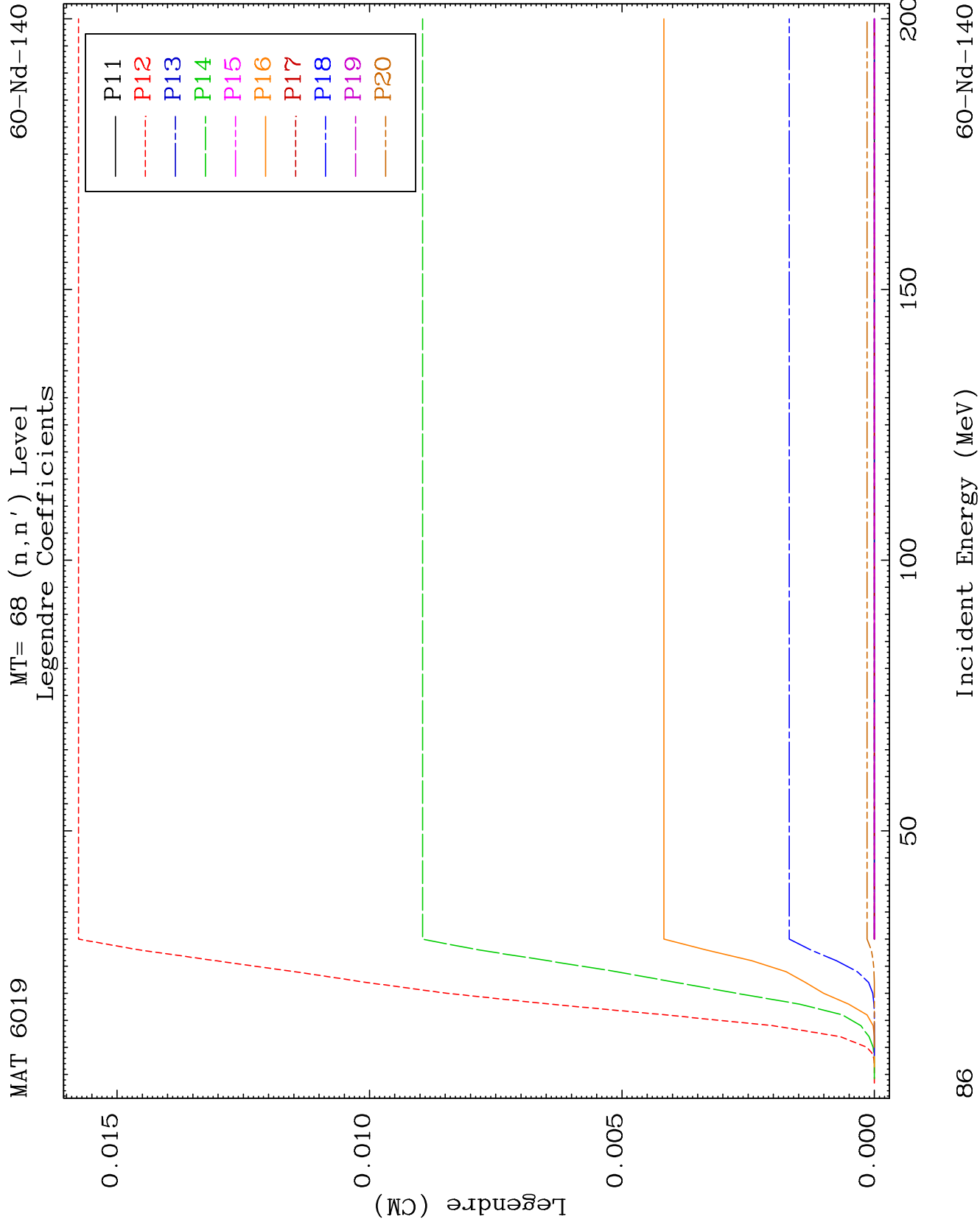
MAT 6019 MT= 67 (n,n') Level Legendre Coefficients 60-Nd-140



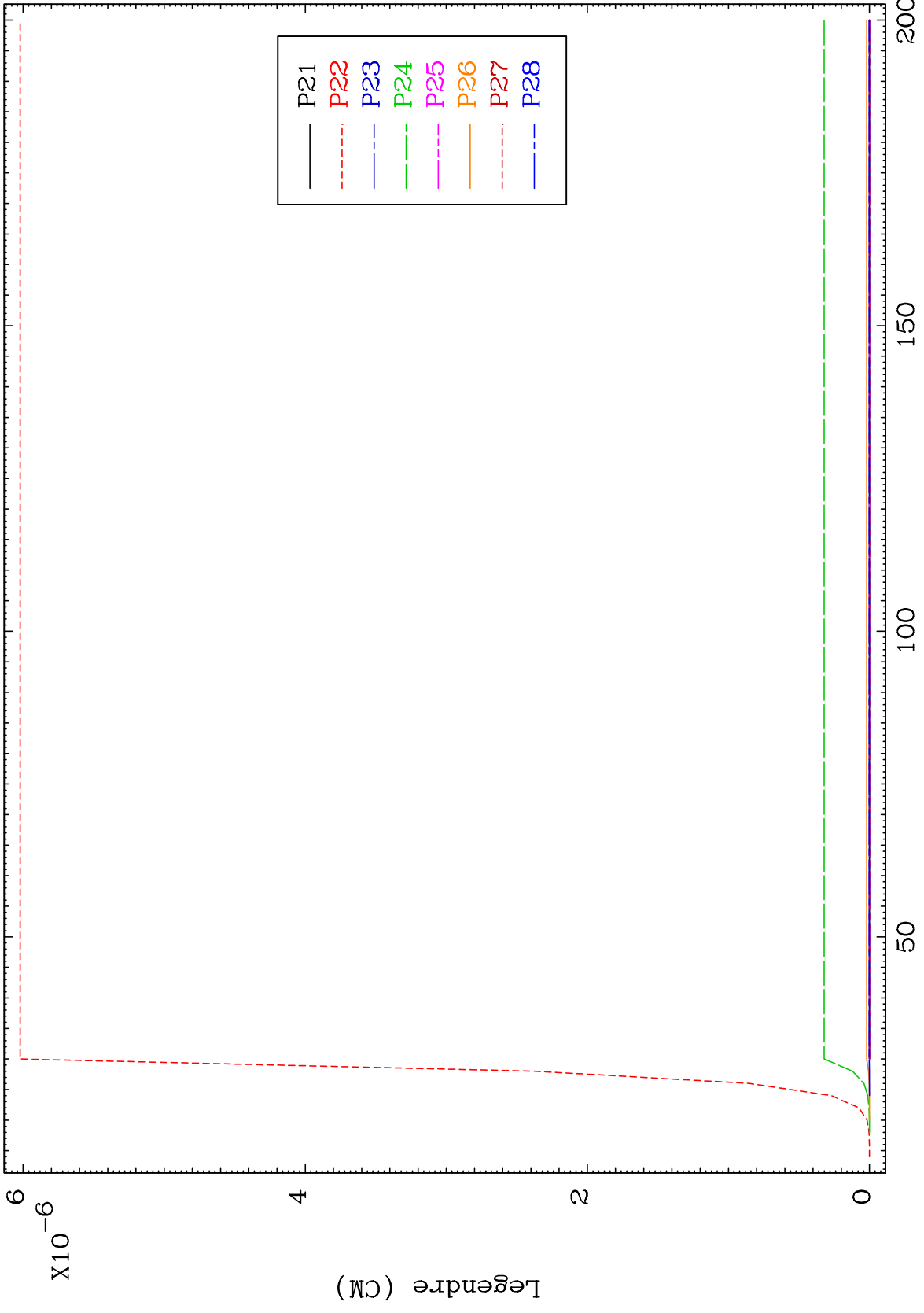
MAT 6019 MT= 68 (n,n') Level Legendre Coefficients 60-Nd-140



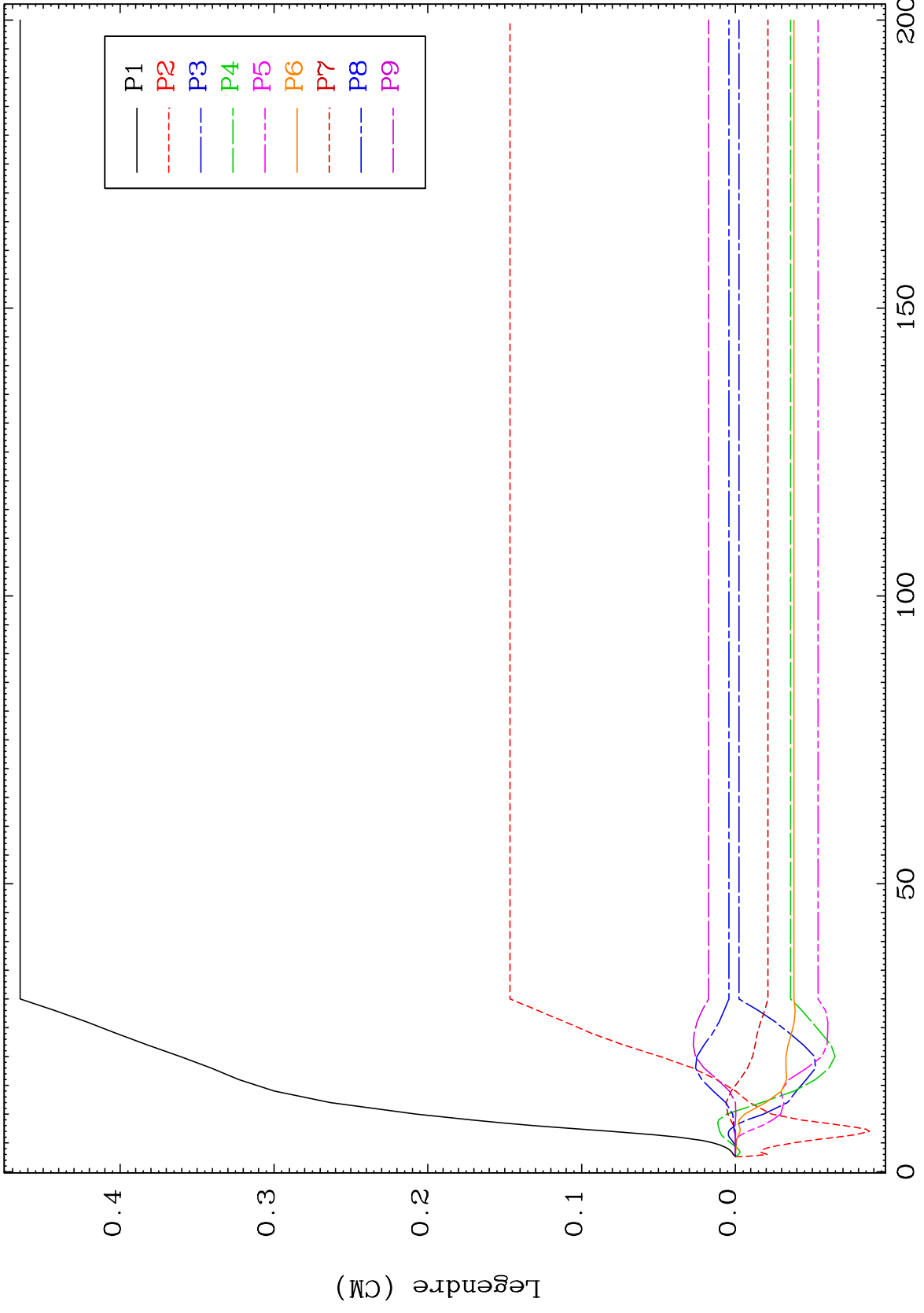
85 Incident Energy (MeV) 60-Nd-140



MAT 6019 MT= 68 (n,n') Level Legendre Coefficients 60-Nd-140

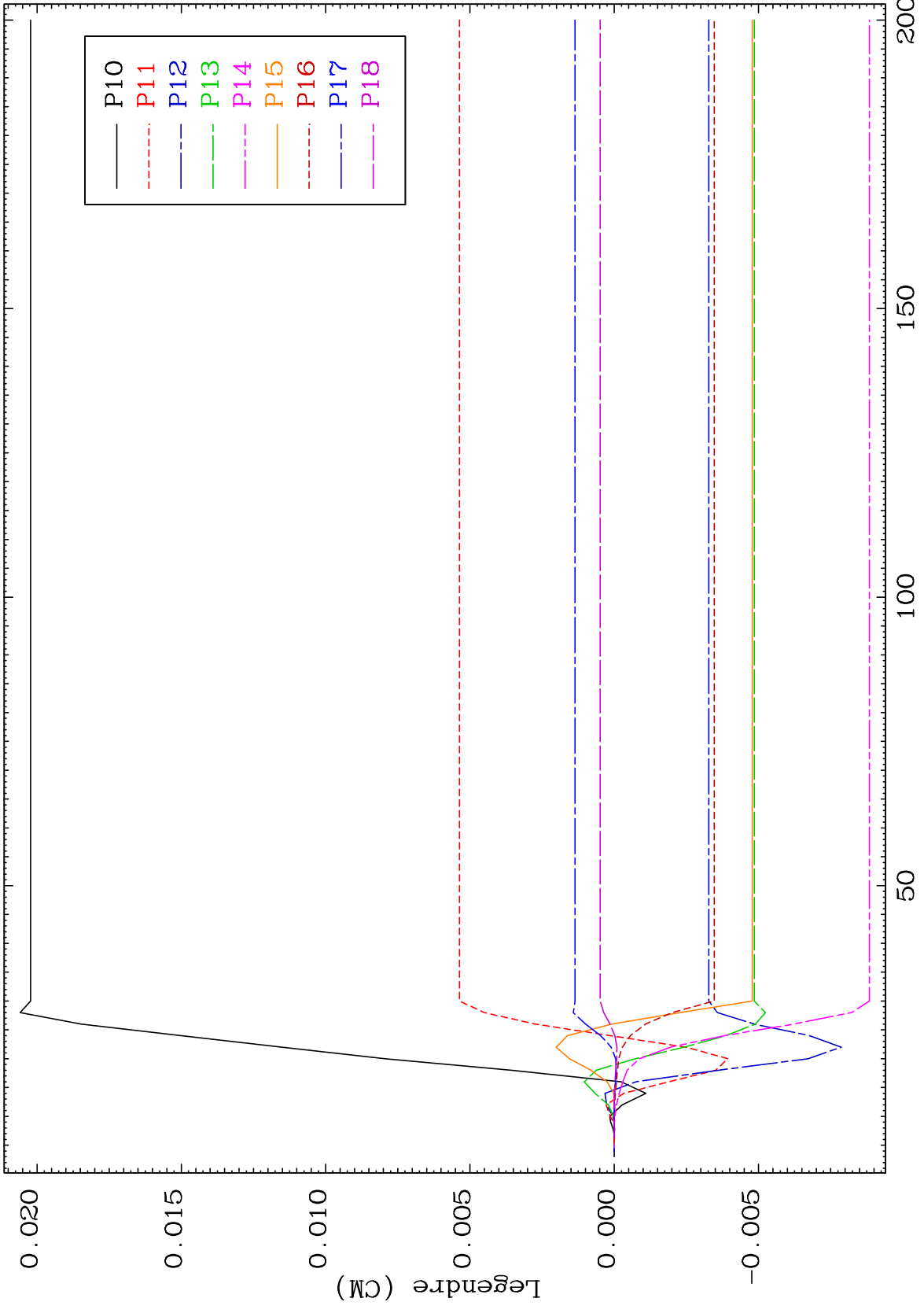


MAT 6019 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-140

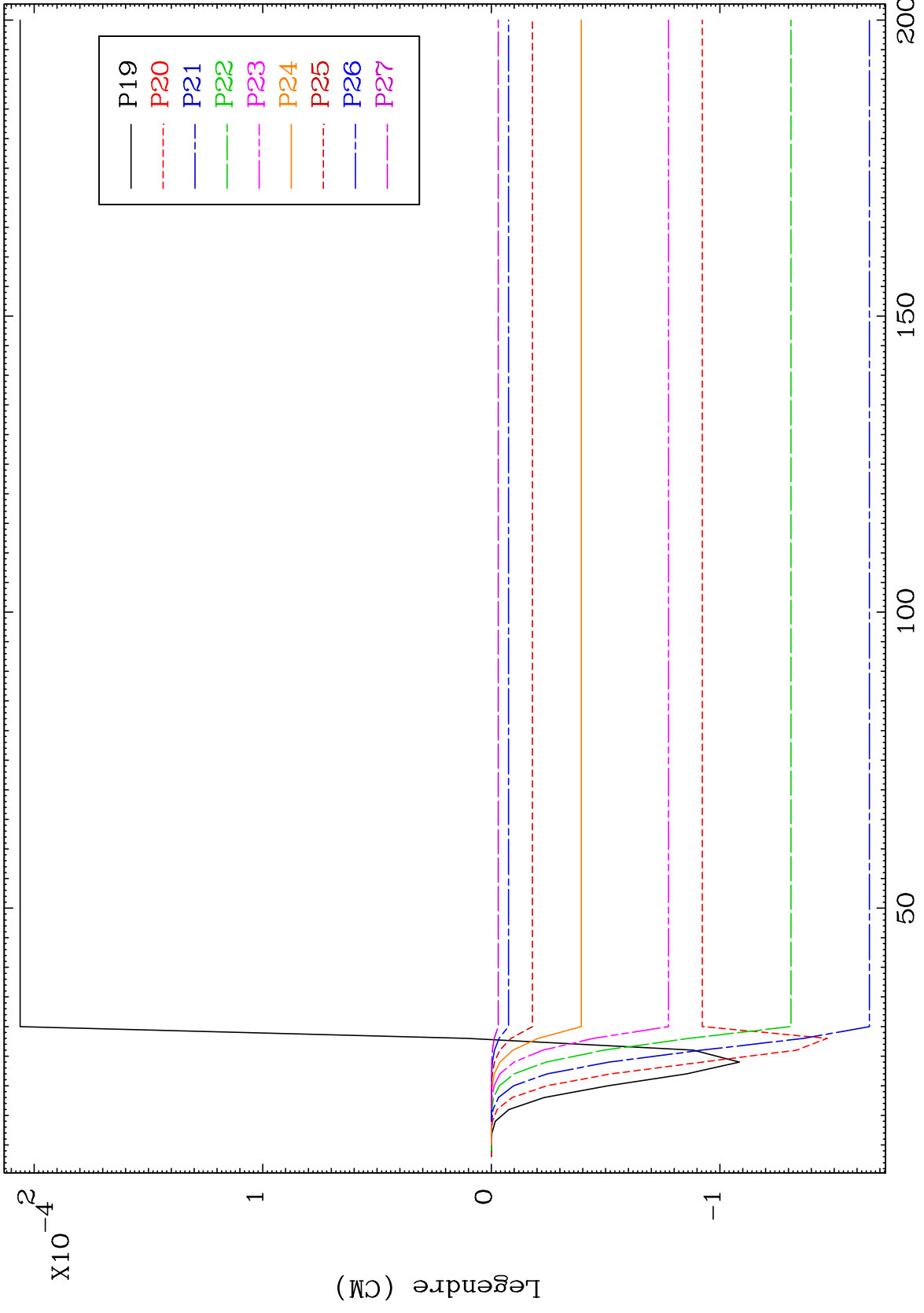


88 Incident Energy (MeV) 60-Nd-140

MAT 6019 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-140

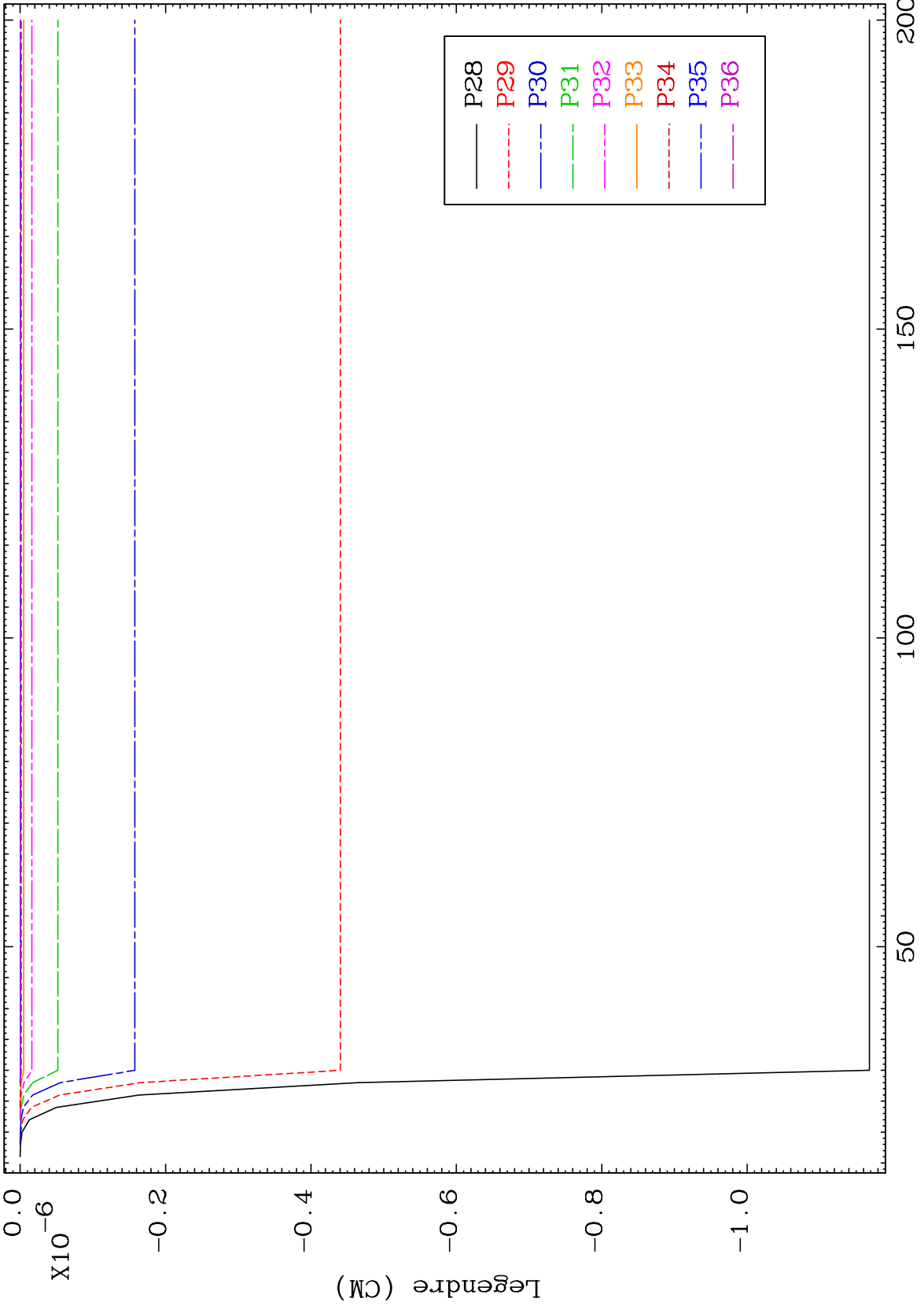


MAT 6019 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-140

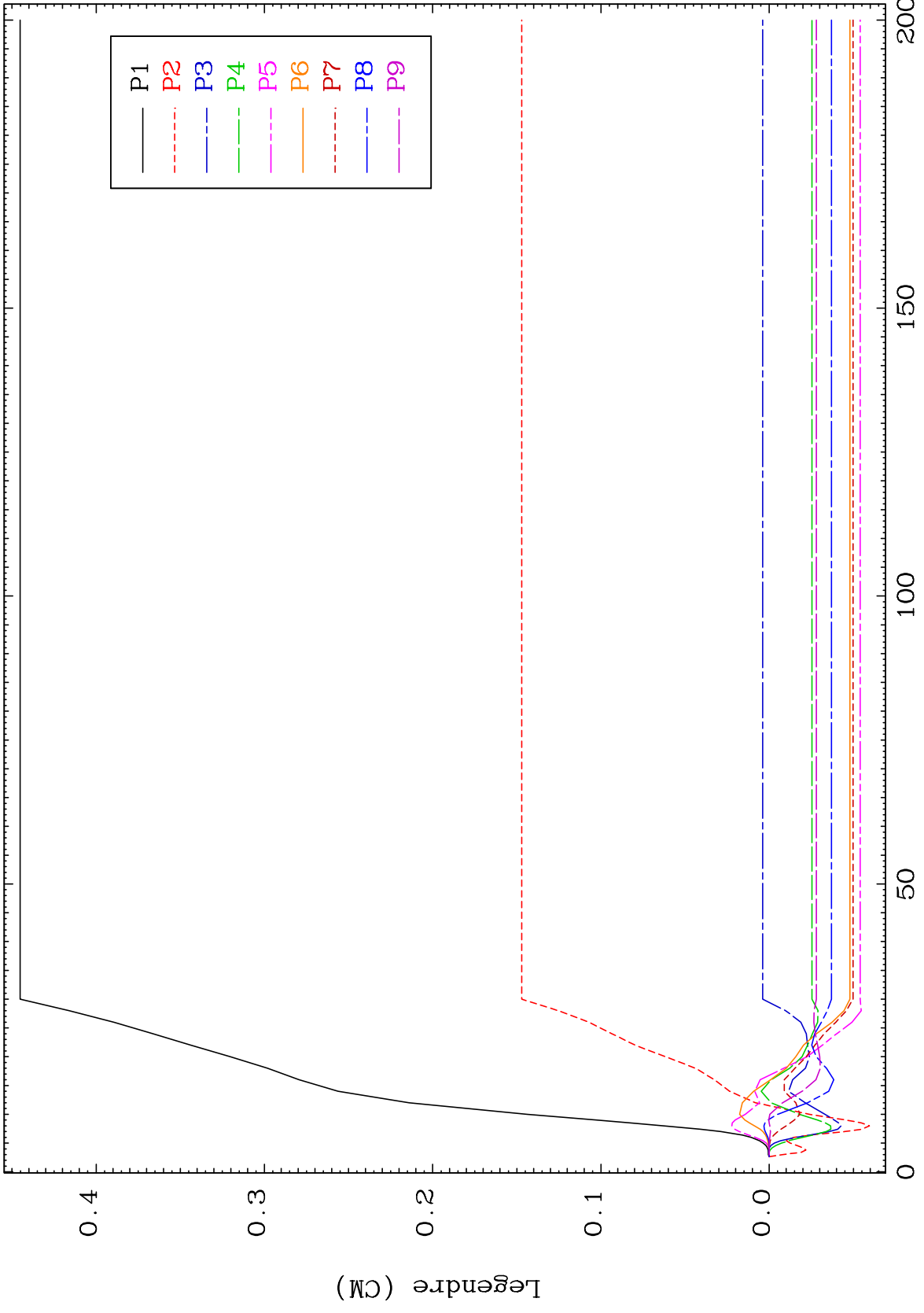


90 50 100 150 200 Incident Energy (MeV) 60-Nd-140

MAT 6019 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-140



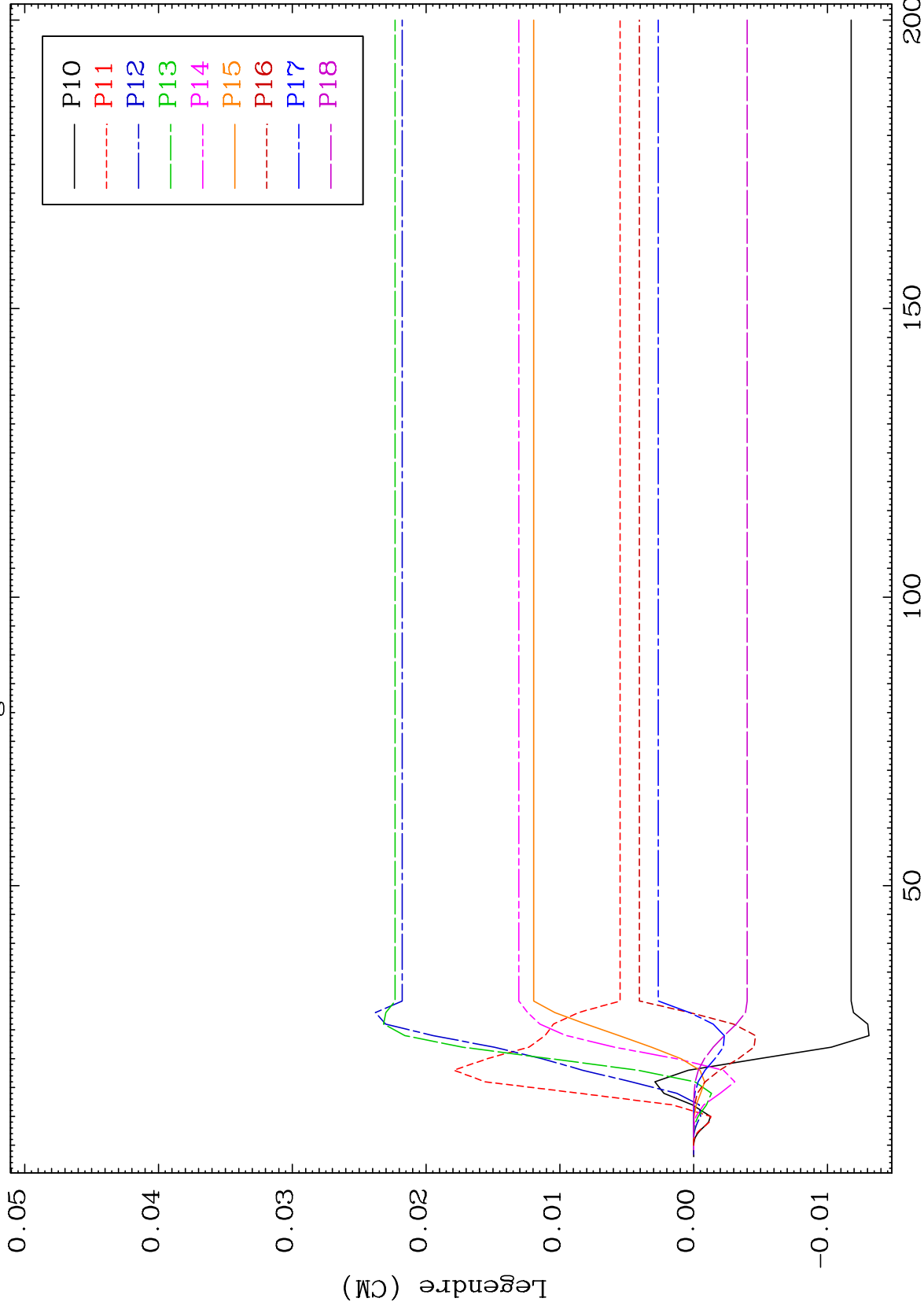
MAT 6019 MT= 70 (n,n') Level Legendre Coefficients 60-Nd-140



92 Incident Energy (MeV) 60-Nd-140

MAT 6019 MT= 70 (n,n') Level Legendre Coefficients

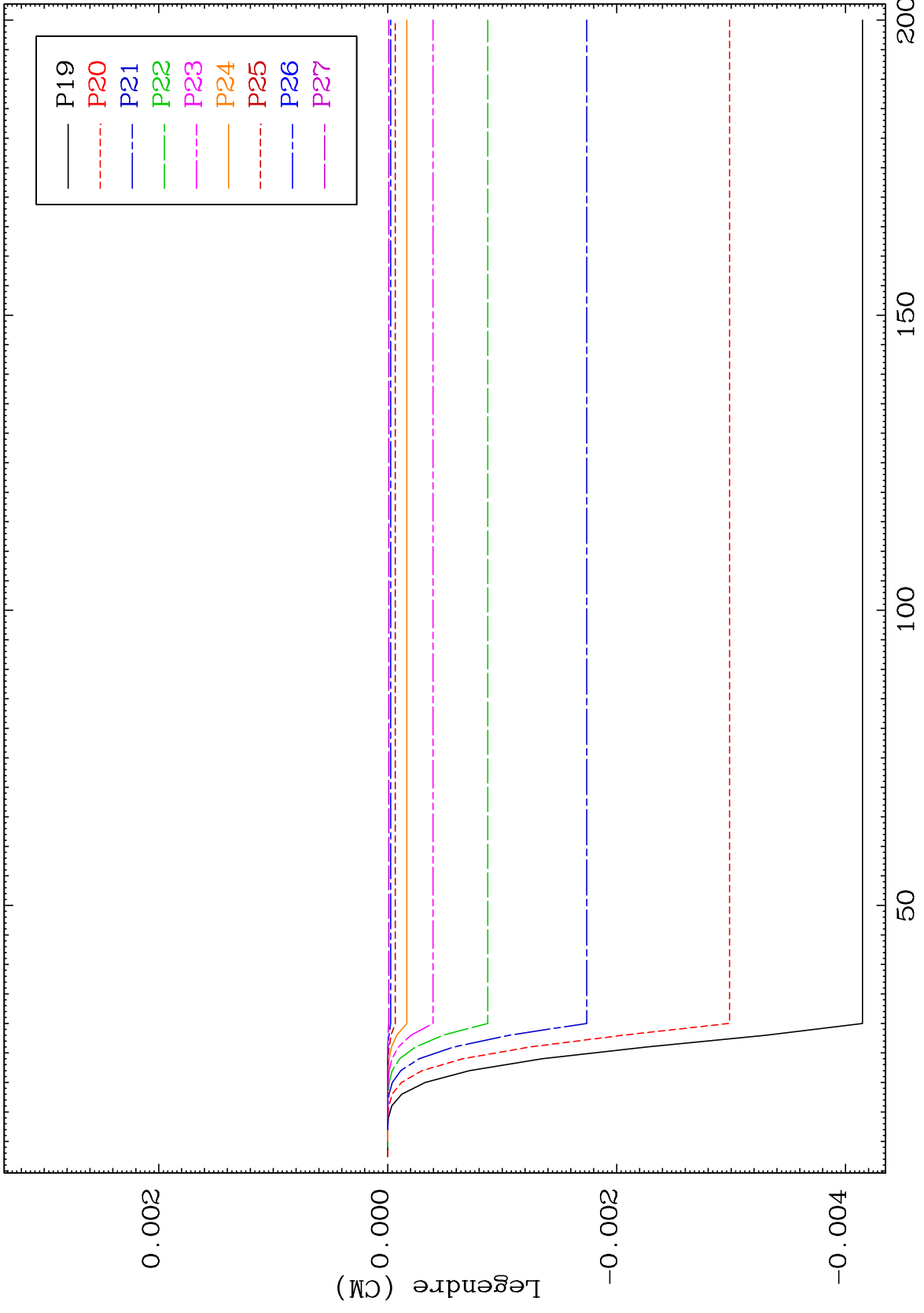
60-Nd-140



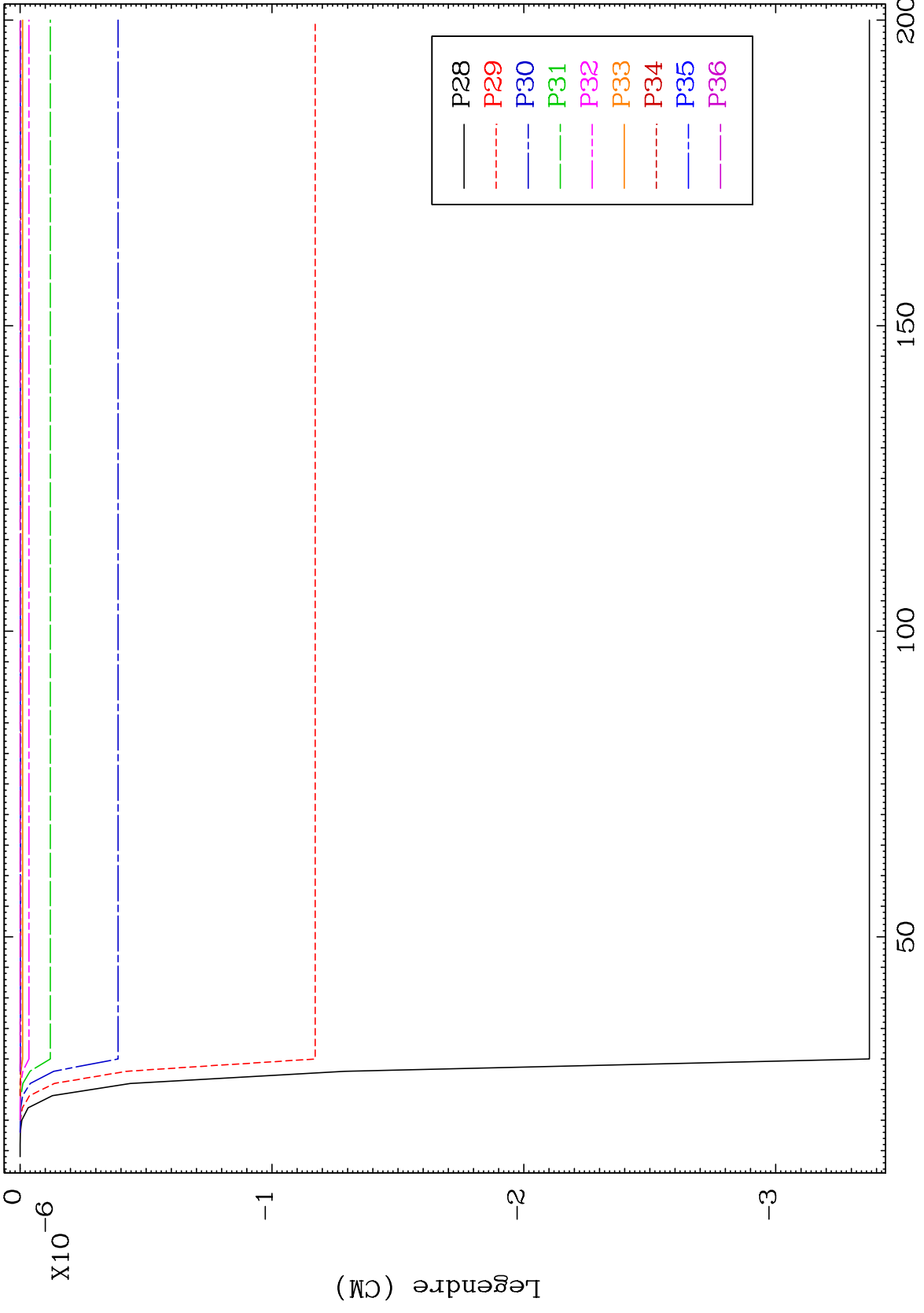
60-Nd-140

Incident Energy (MeV)

MAT 6019 MT= 70 (n,n') Level Legendre Coefficients 60-Nd-140

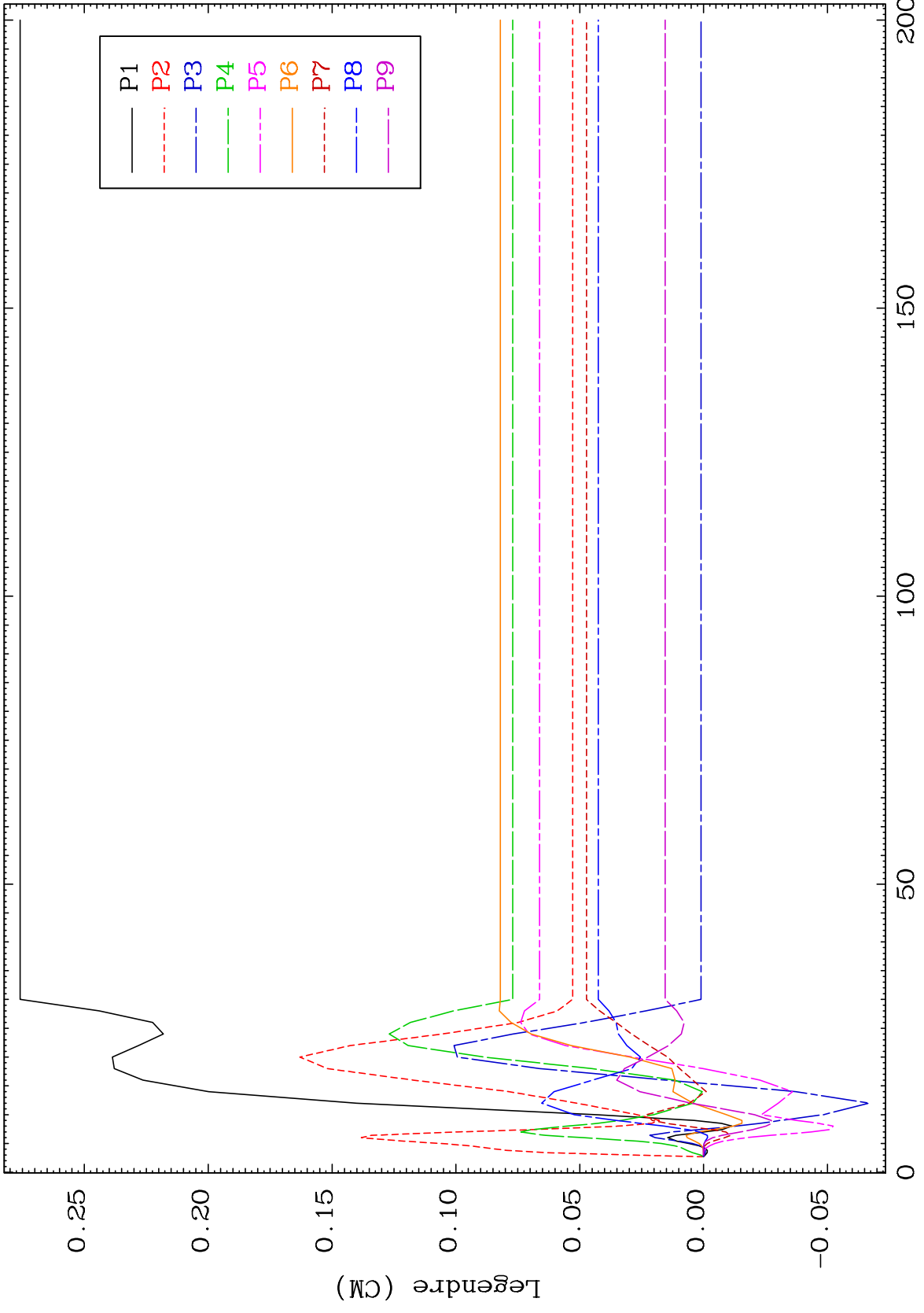


MAT 6019 MT= 70 (n,n') Level Legendre Coefficients 60-Nd-140



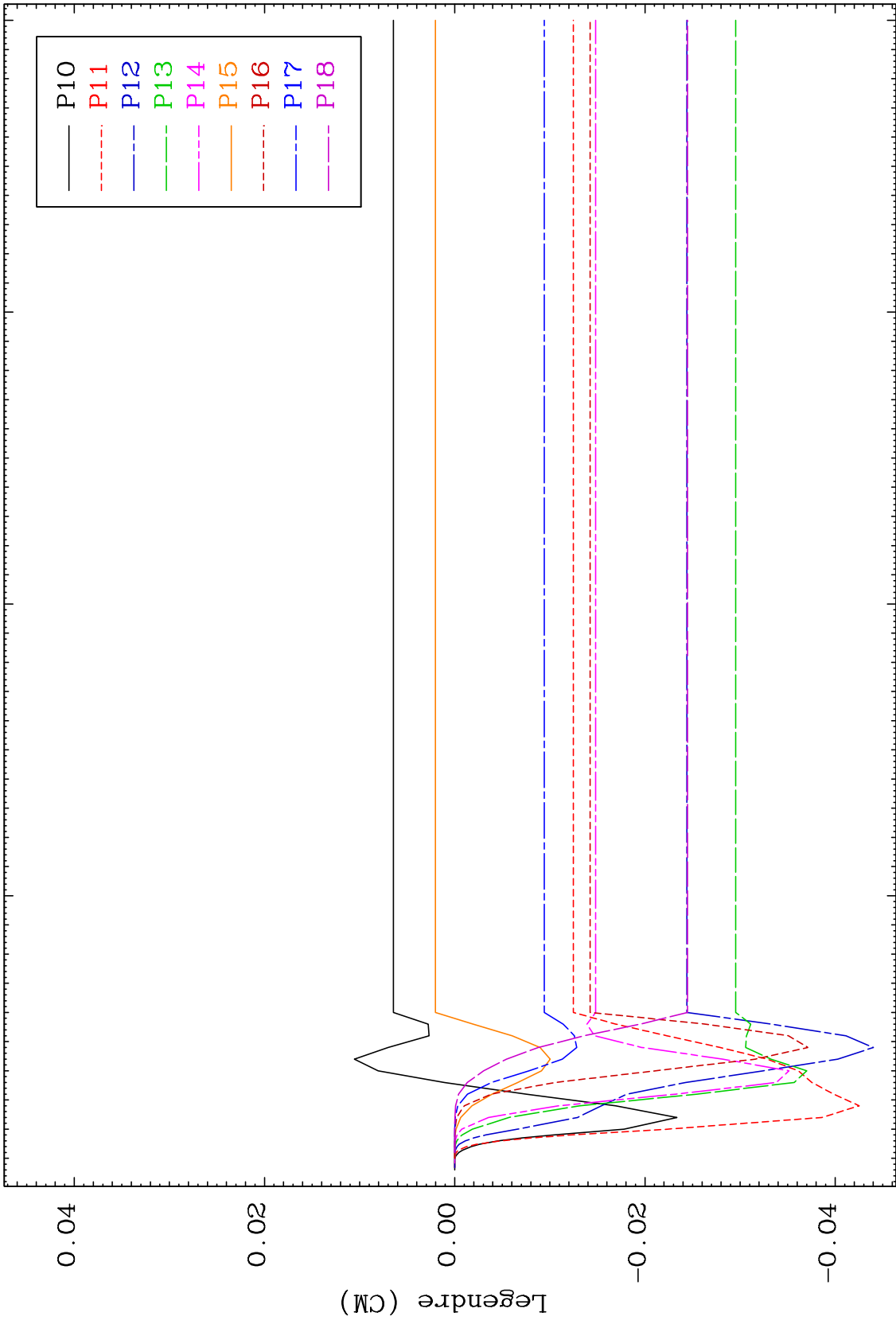
95 Incident Energy (MeV) 60-Nd-140

MAT 6019 MT= 71 (n,n') Level Legendre Coefficients 60-Nd-140

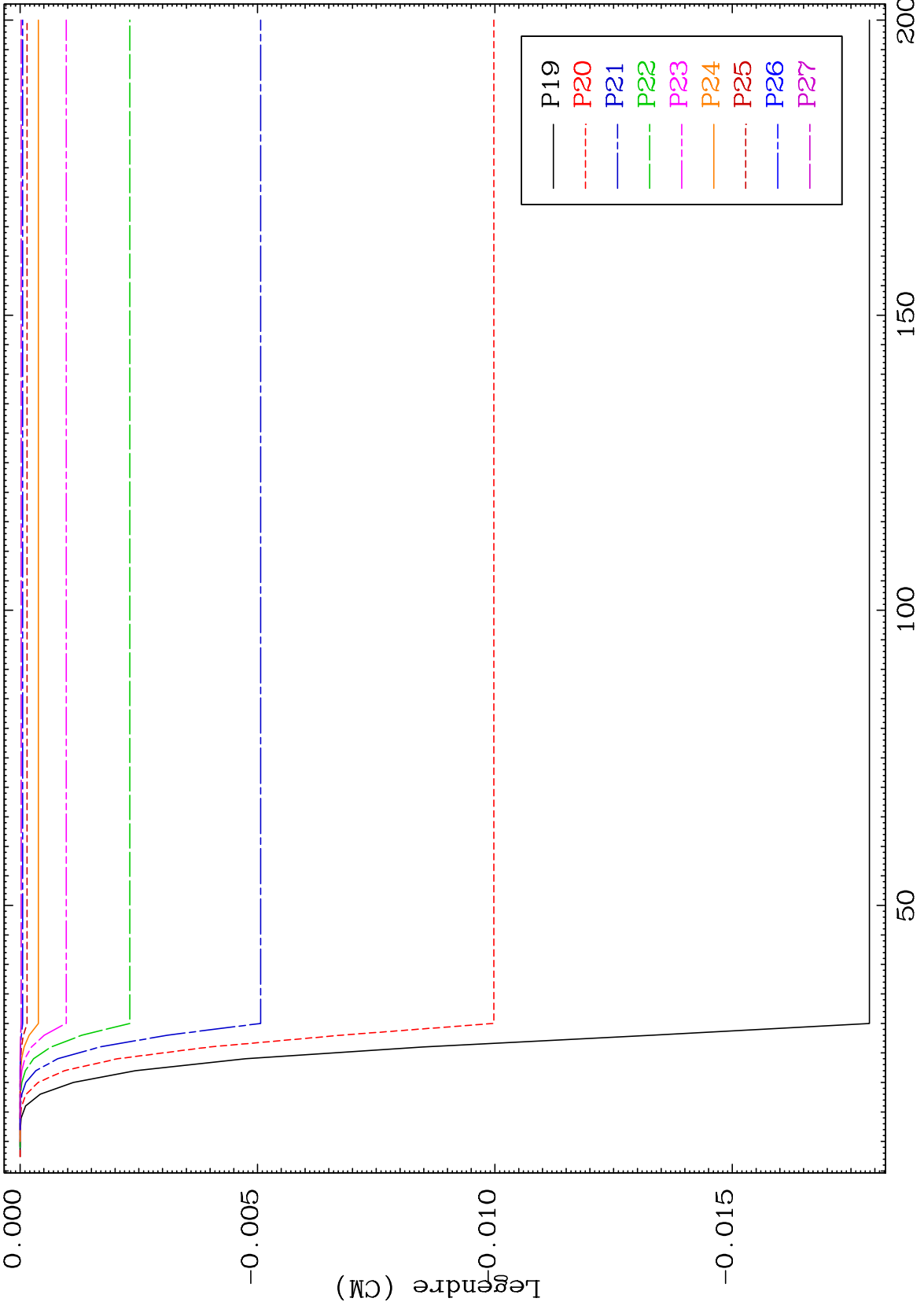


96 60-Nd-140

MAT 6019 MT= 71 (n,n') Level Legendre Coefficients 60-Nd-140



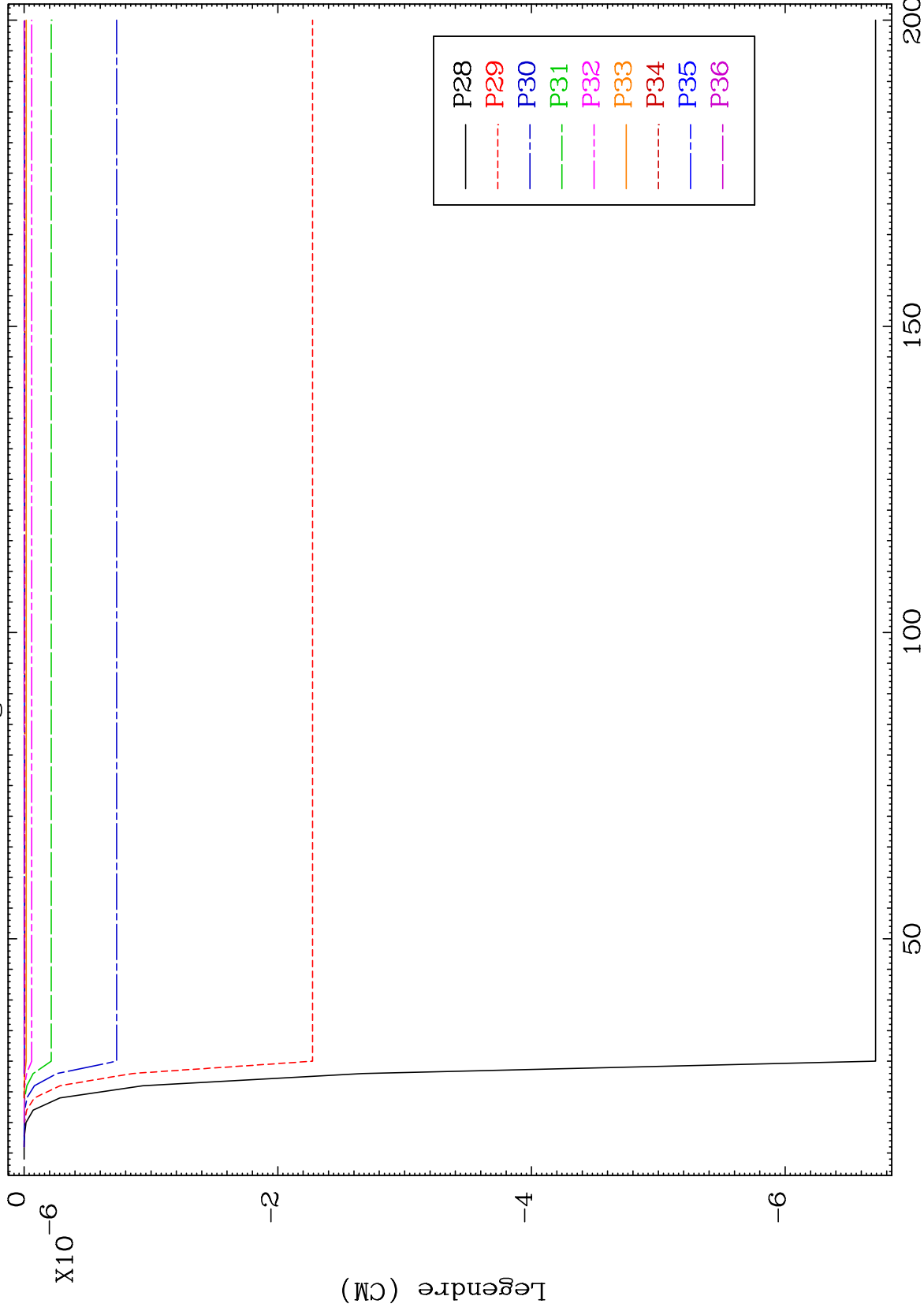
MAT 6019 MT= 71 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019

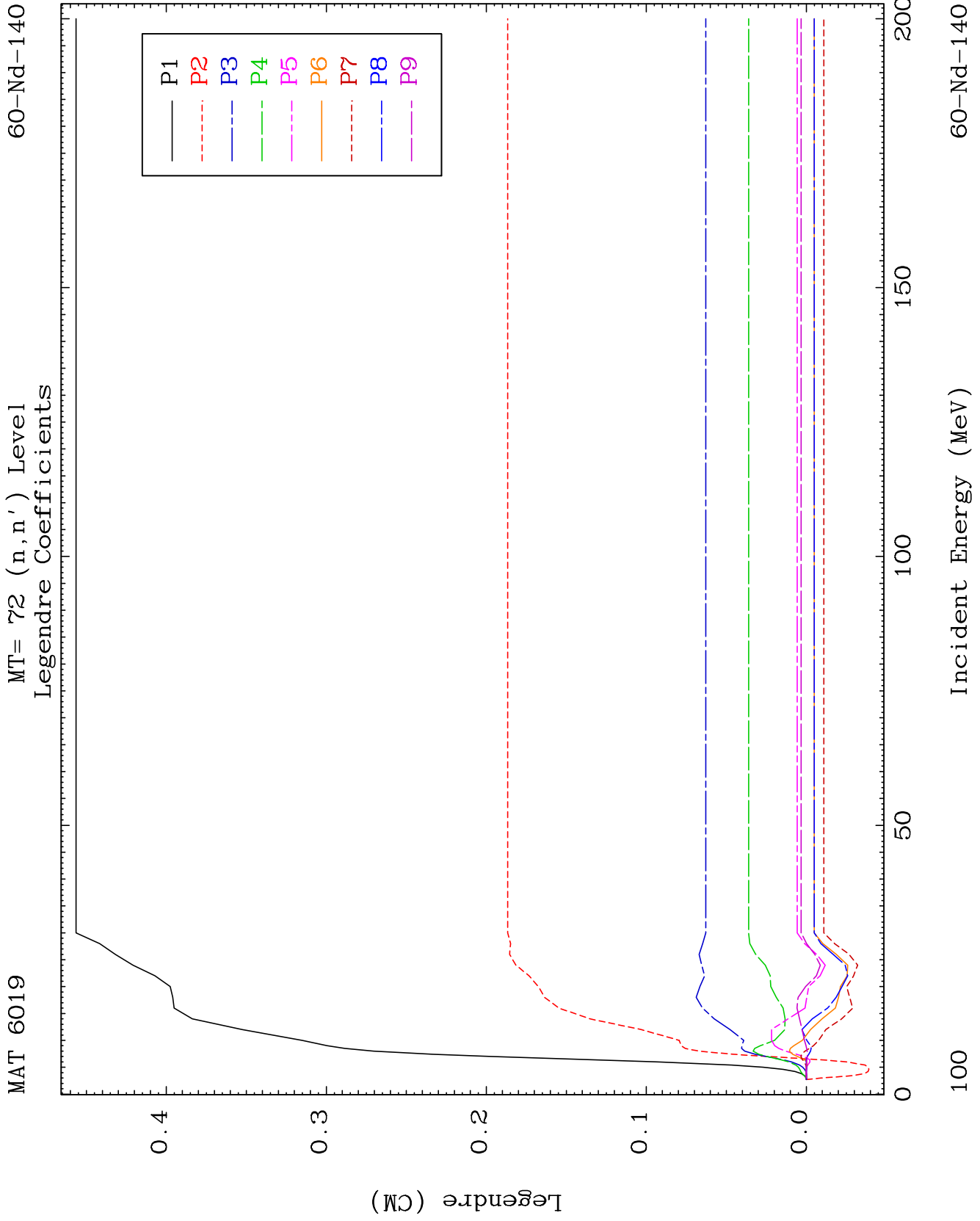
MT= 71 (n,n') Level
Legendre Coefficients

60-Nd-140



99

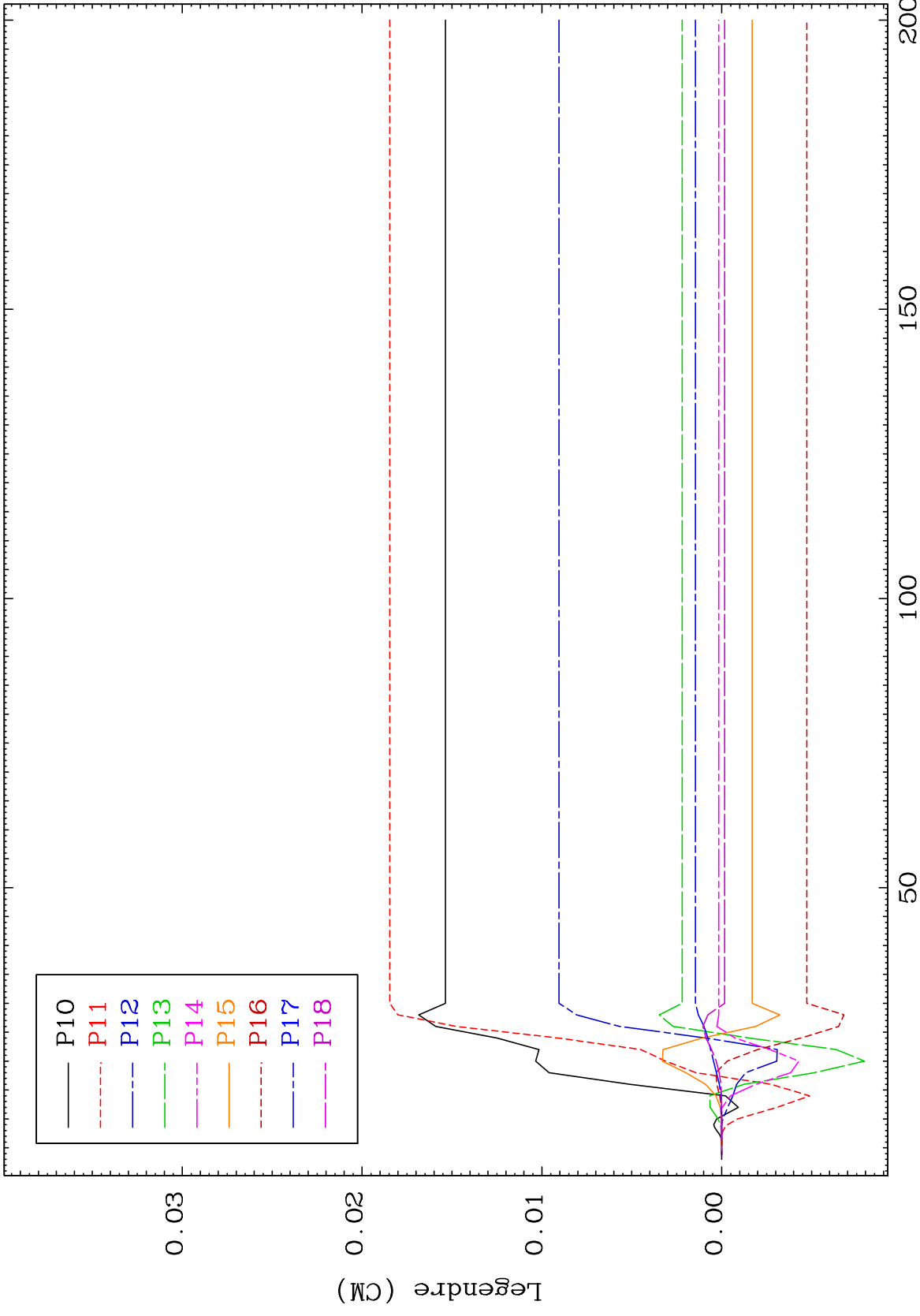
60-Nd-140



MAT 6019

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

60-Nd-140



101

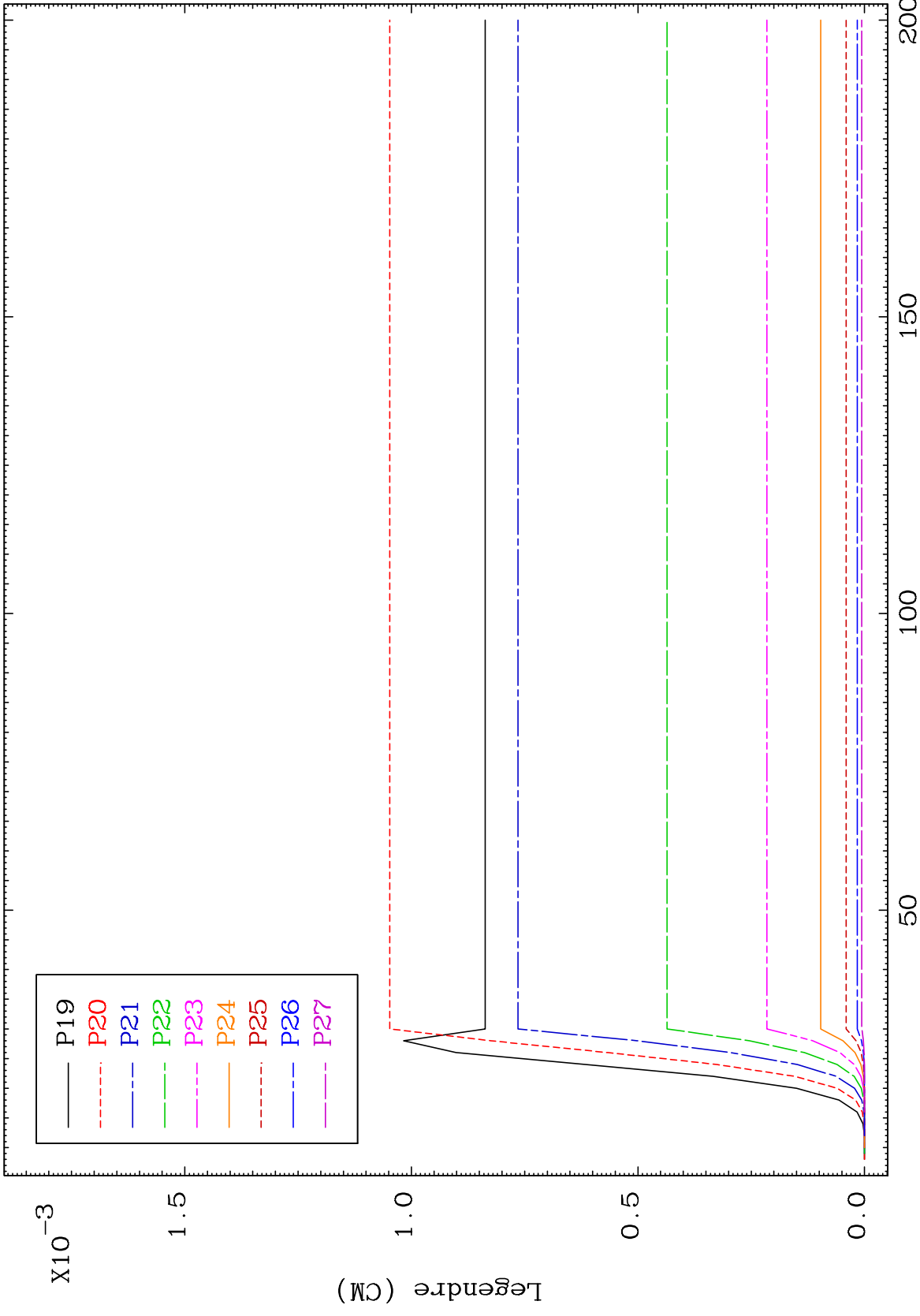
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

60-Nd-140

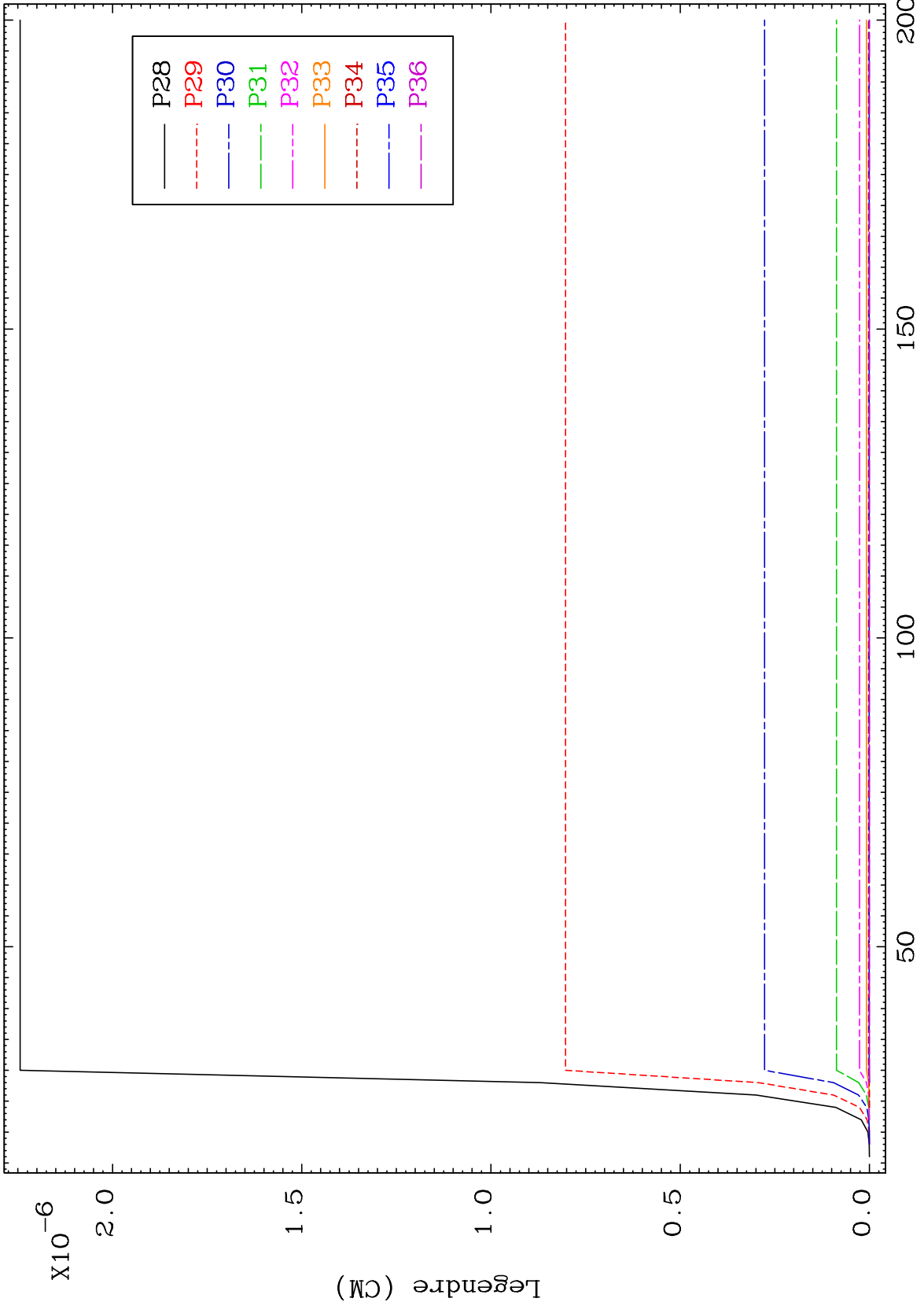


102

Incident Energy (MeV)

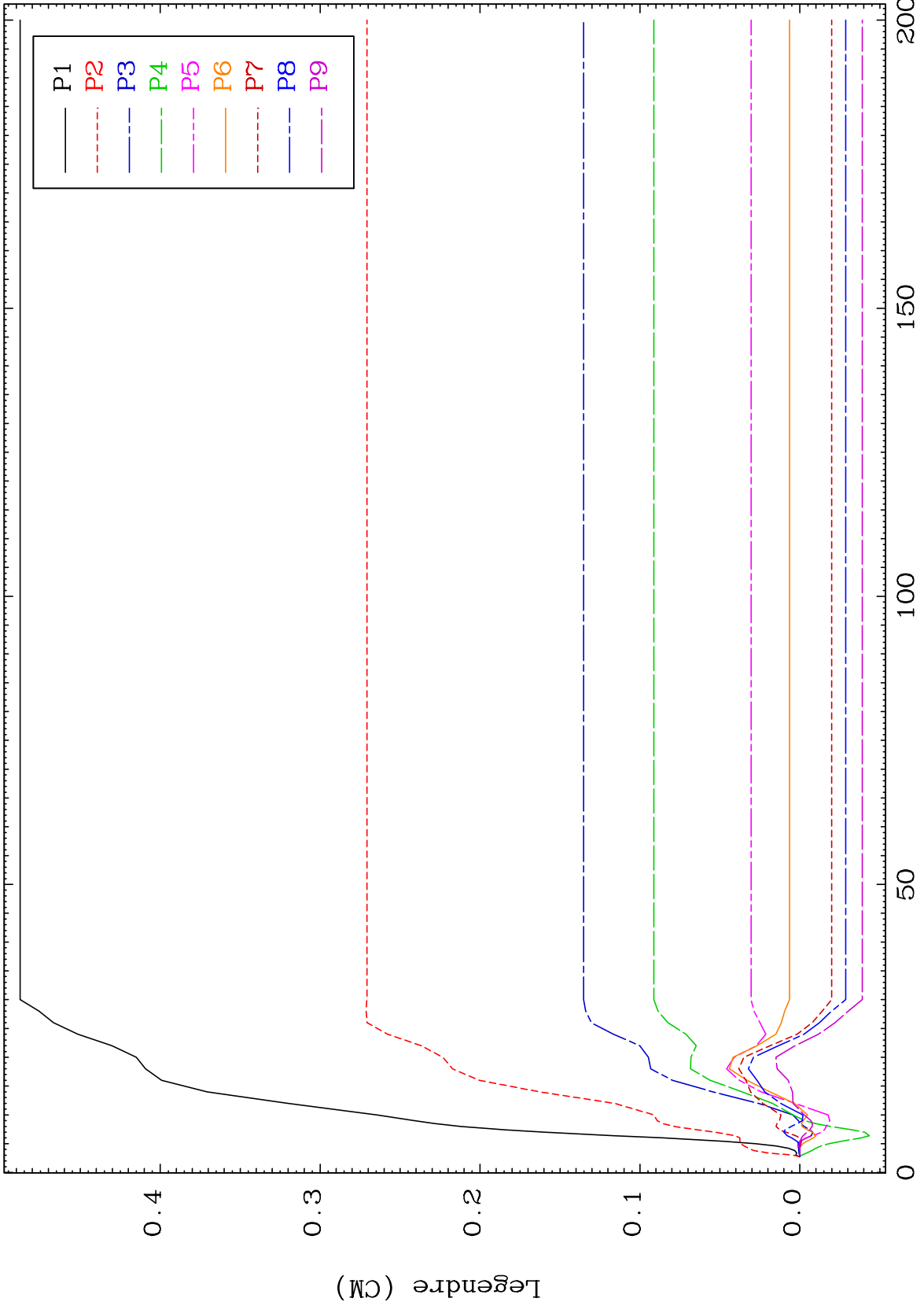
60-Nd-140

MAT 6019 MT= 72 (n,n') Level Legendre Coefficients 60-Nd-140



103 50 100 150 200 60-Nd-140

MAT 6019 MT= 73 (n,n') Level Legendre Coefficients 60-Nd-140

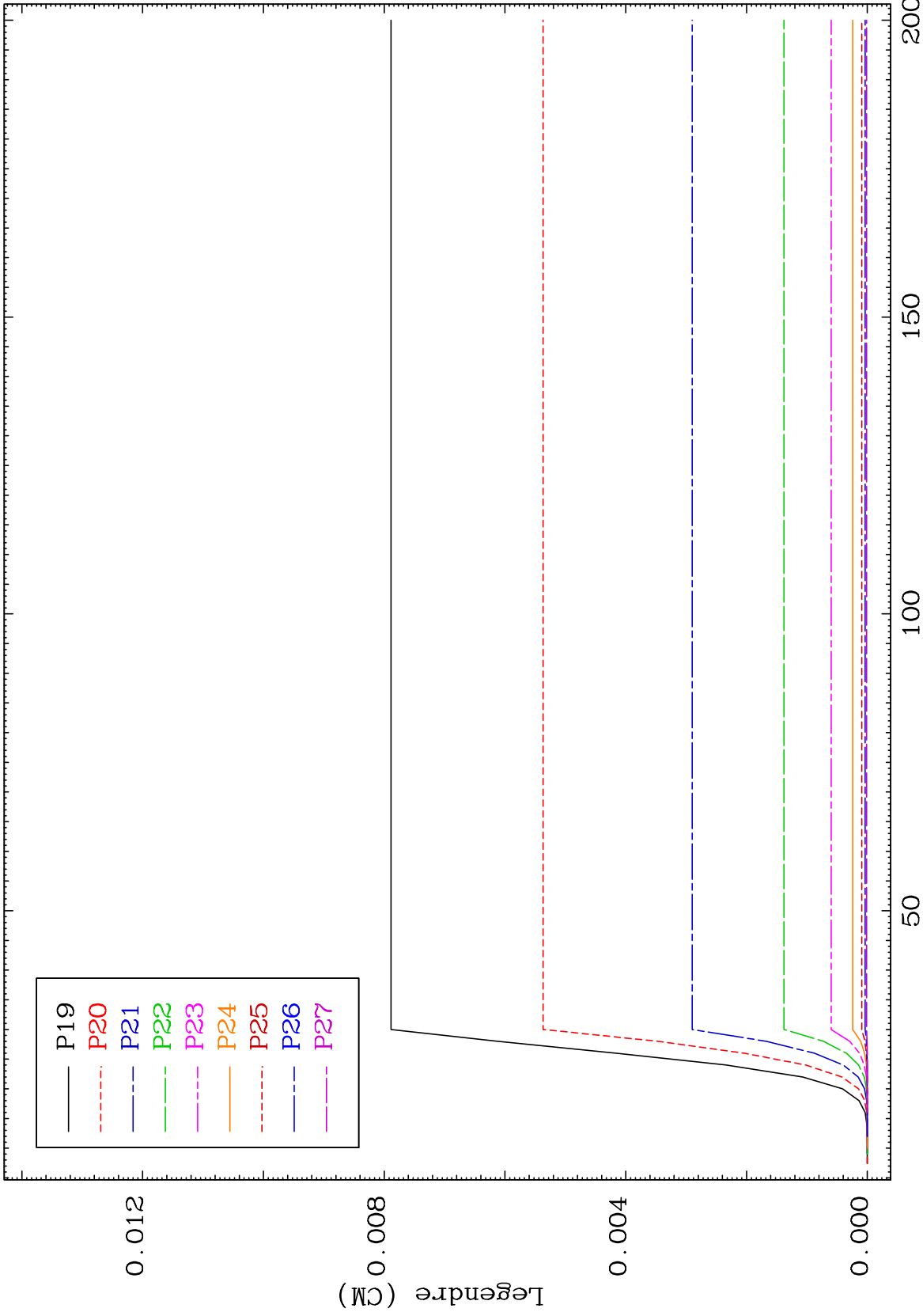


104 Incident Energy (MeV) 60-Nd-140

MAT 6019

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

60-Nd-140

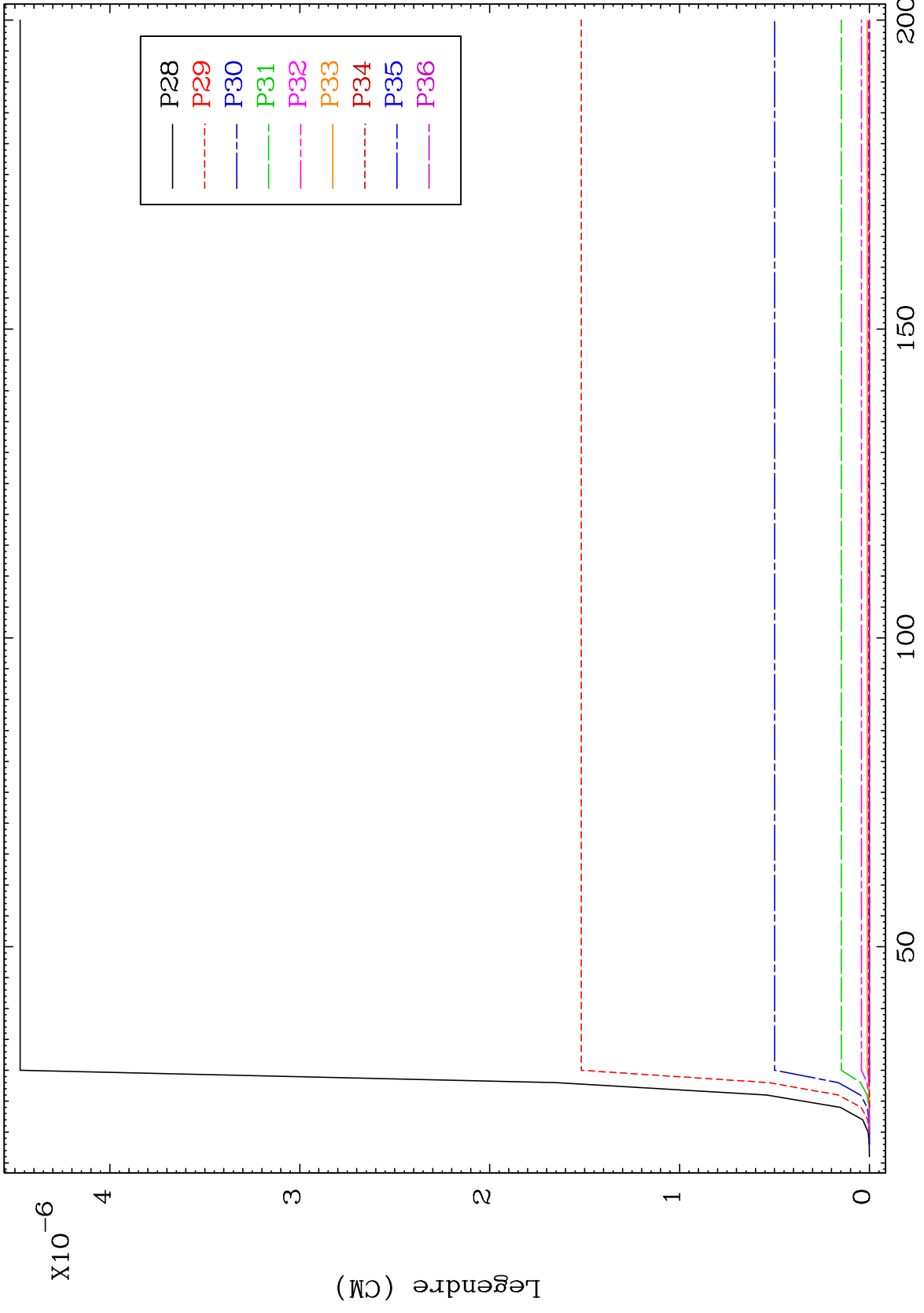


106

Incident Energy (MeV)

60-Nd-140

MAT 6019 MT= 73 (n,n') Level Legendre Coefficients 60-Nd-140

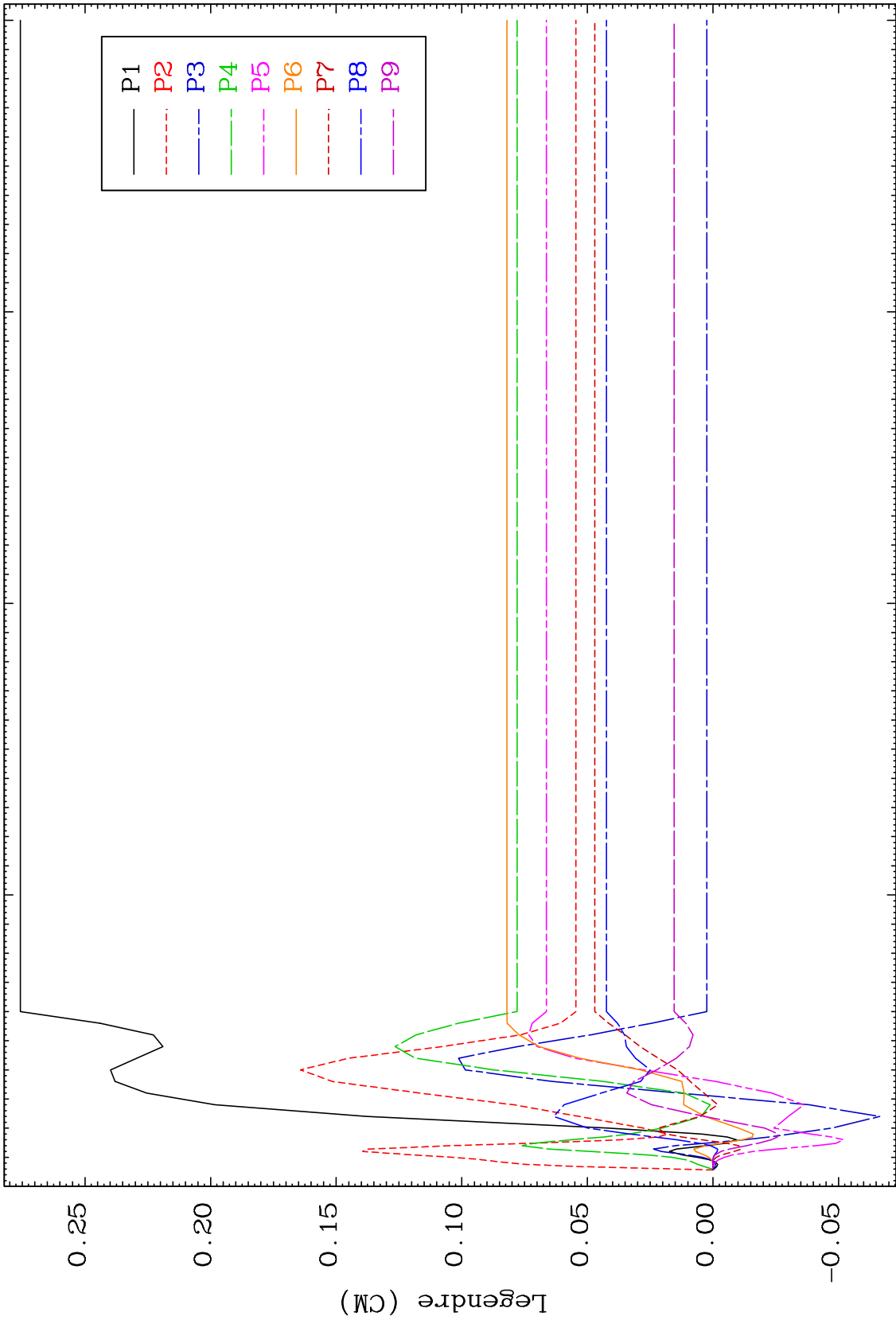


107 Incident Energy (MeV) 60-Nd-140

MAT 6019

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

60-Nd-140



108

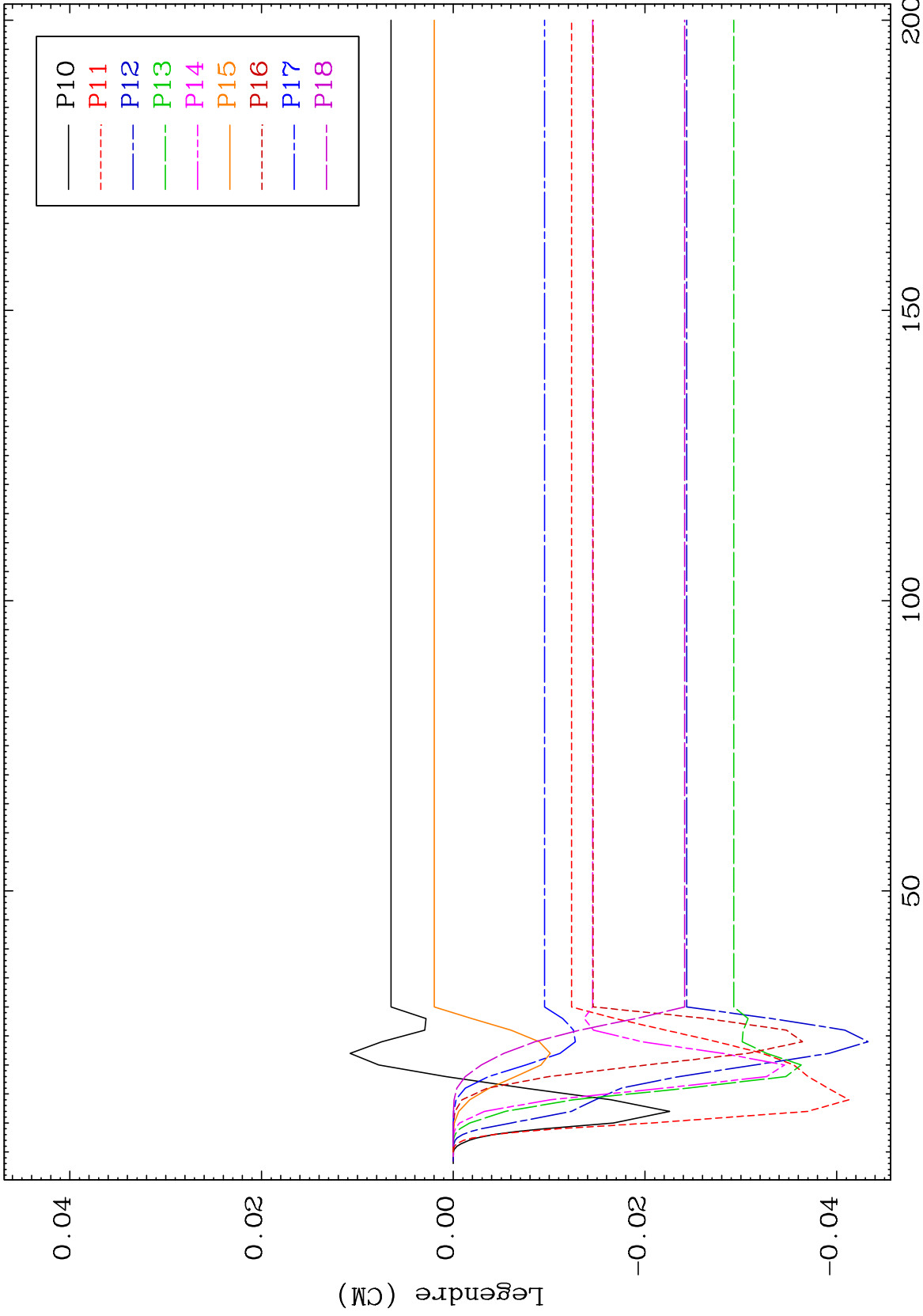
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

60-Nd-140

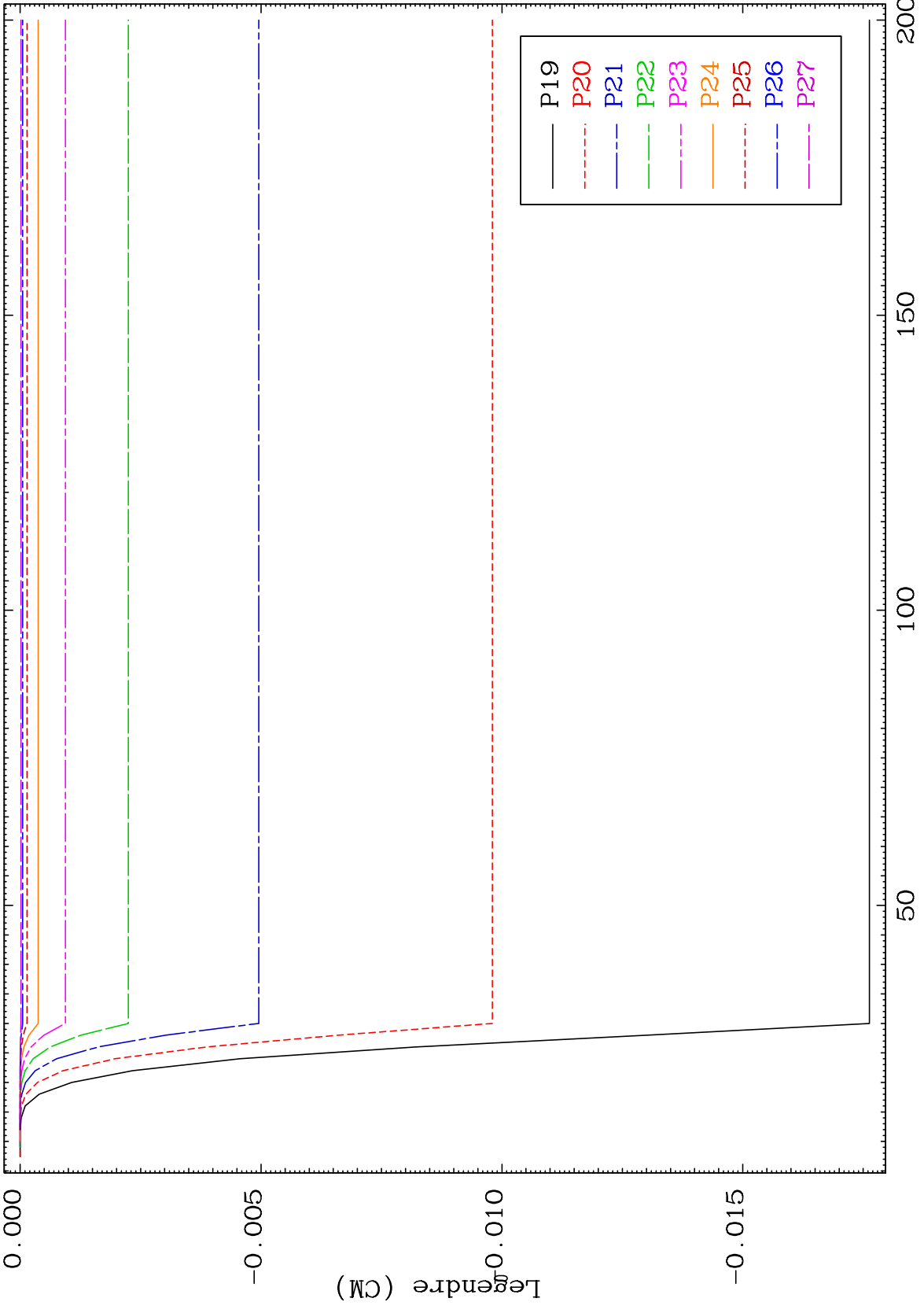


109

Incident Energy (MeV)

60-Nd-140

MAT 6019 MT= 74 (n,n') Level Legendre Coefficients 60-Nd-140

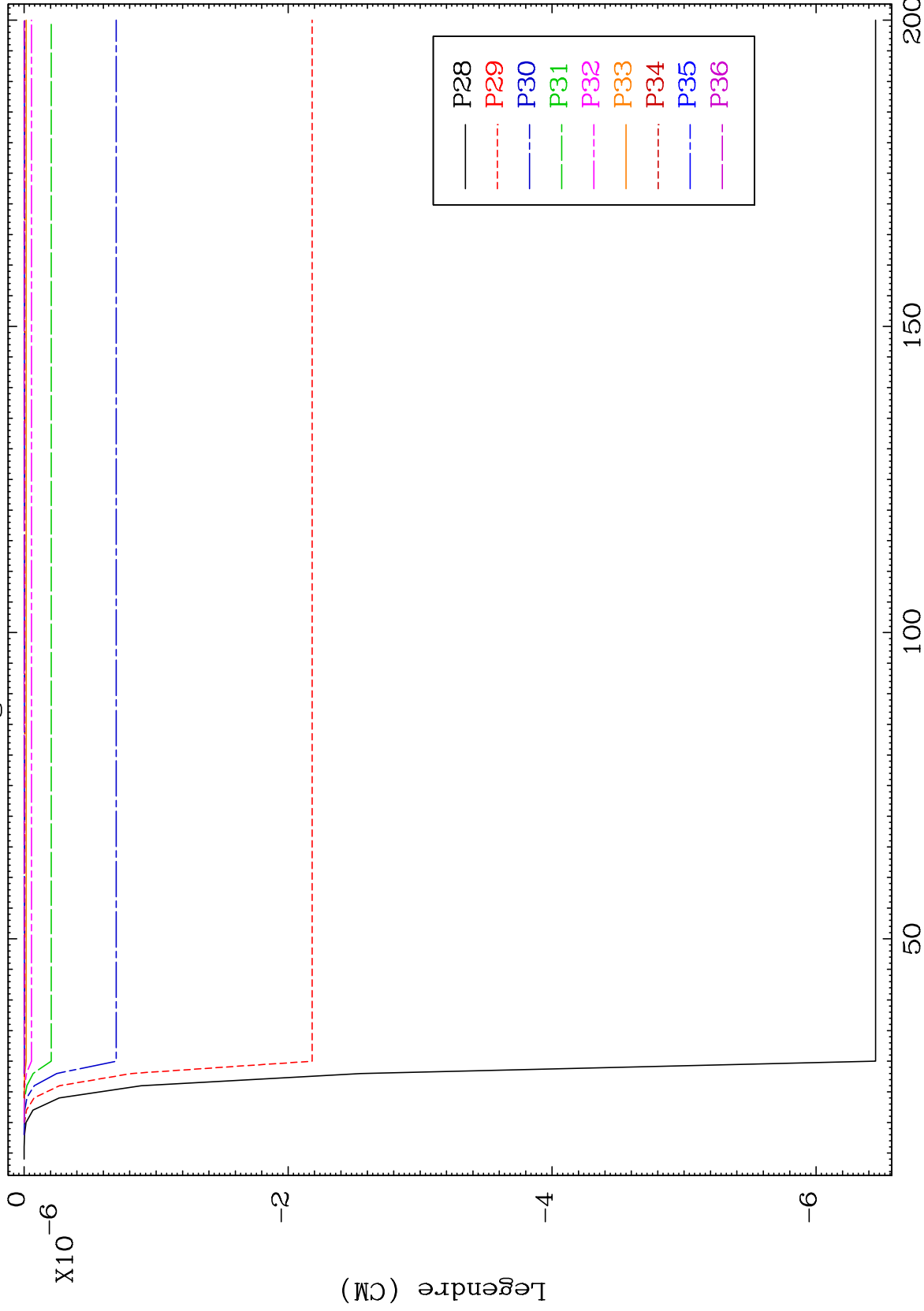


110 Incident Energy (MeV) 60-Nd-140

MAT 6019

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

60-Nd-140

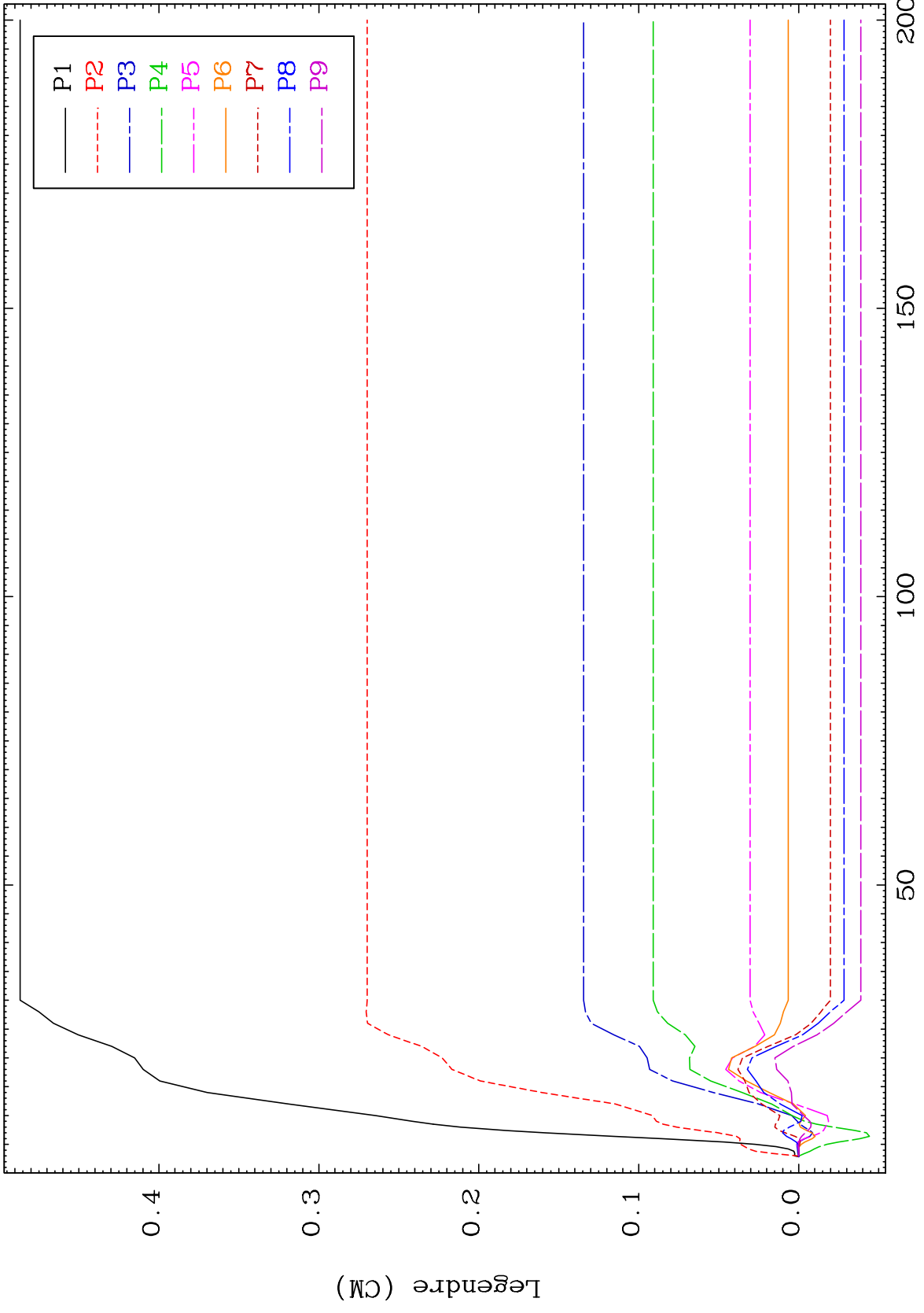


60-Nd-140

Incident Energy (MeV)

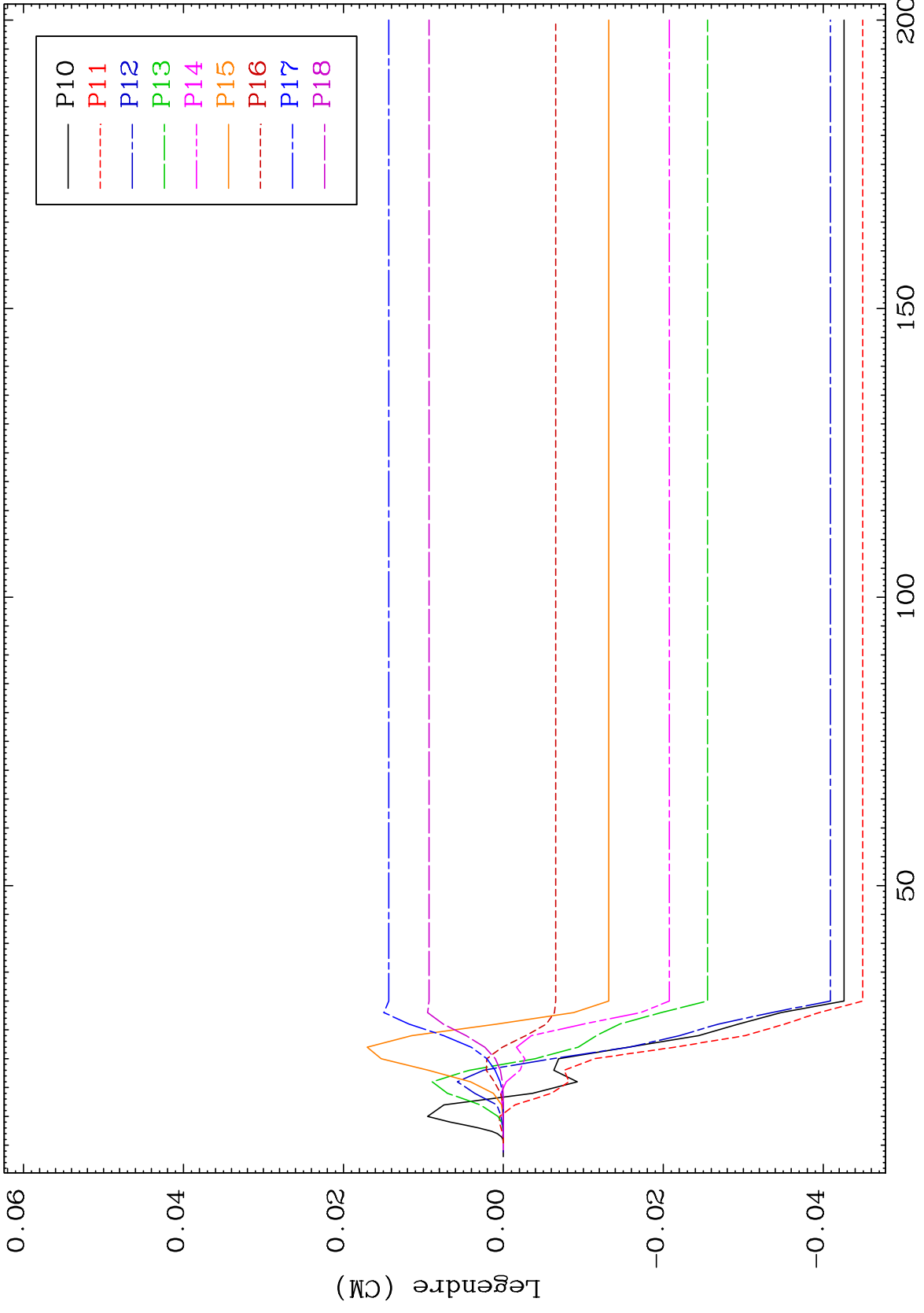
111

MAT 6019 MT= 75 (n,n') Level Legendre Coefficients 60-Nd-140



112 60-Nd-140

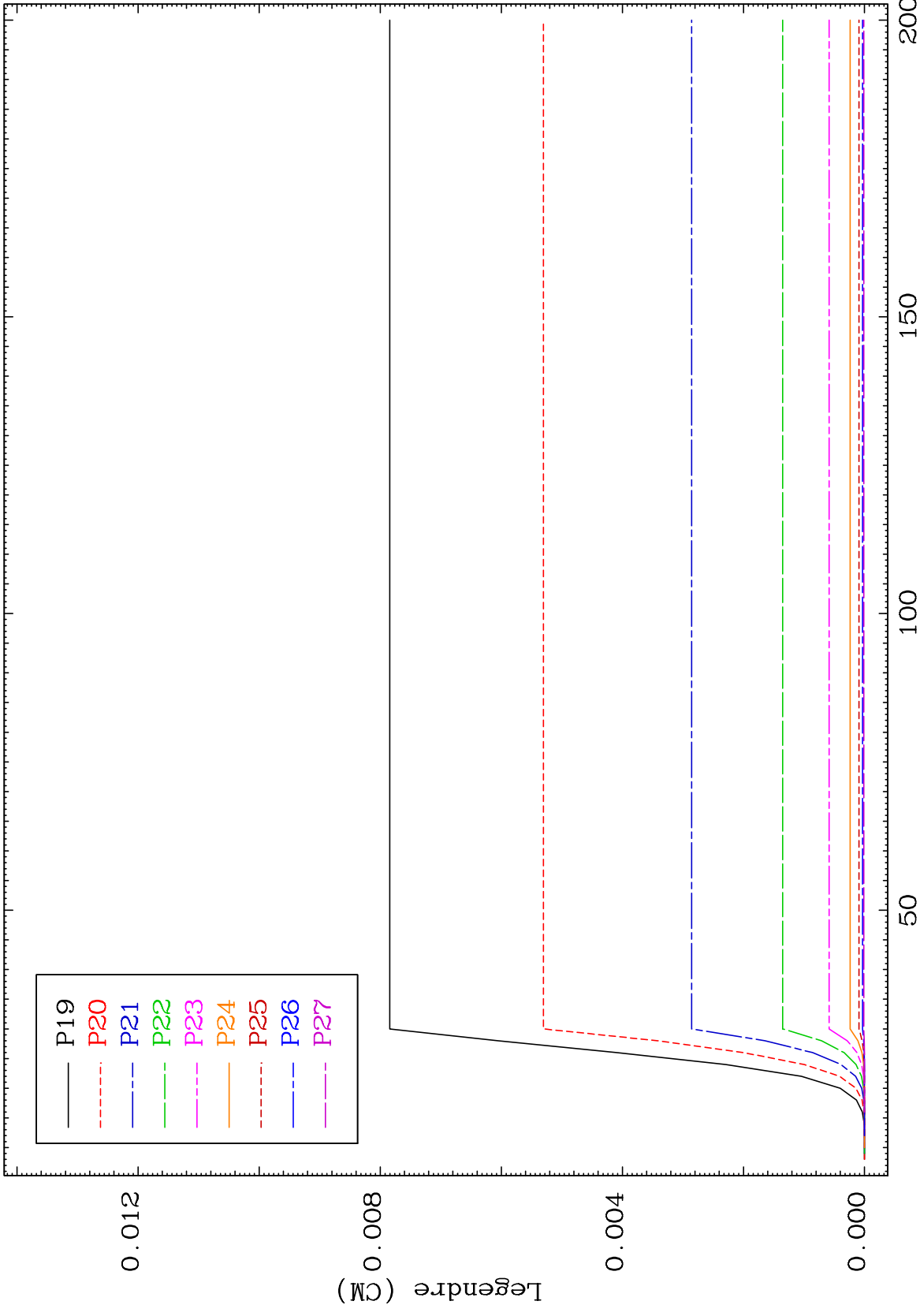
MAT 6019 MT= 75 (n,n') Level Legendre Coefficients 60-Nd-140



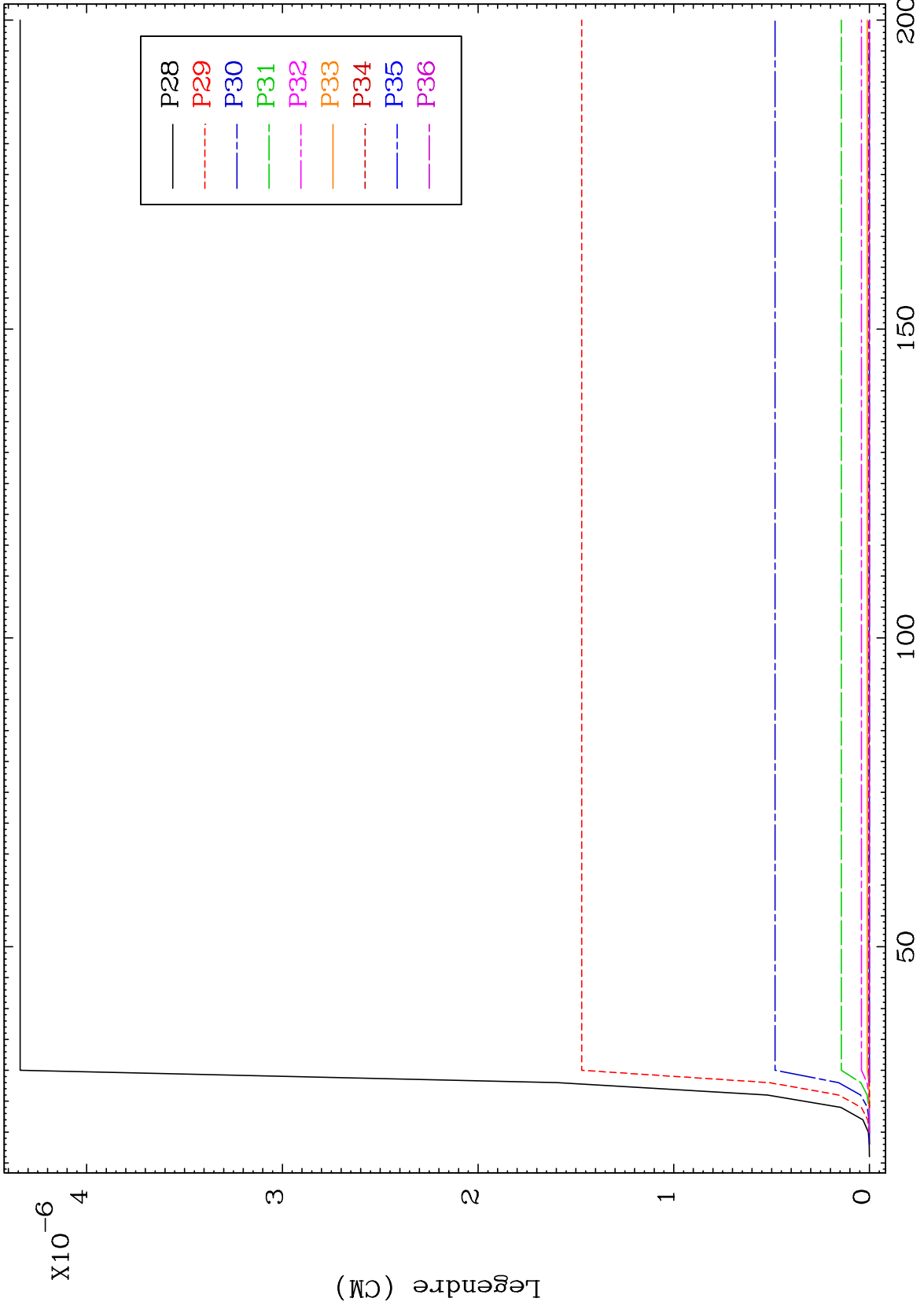
60-Nd-140

Incident Energy (MeV)

MAT 6019 MT= 75 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019 MT= 75 (n,n') Level Legendre Coefficients 60-Nd-140

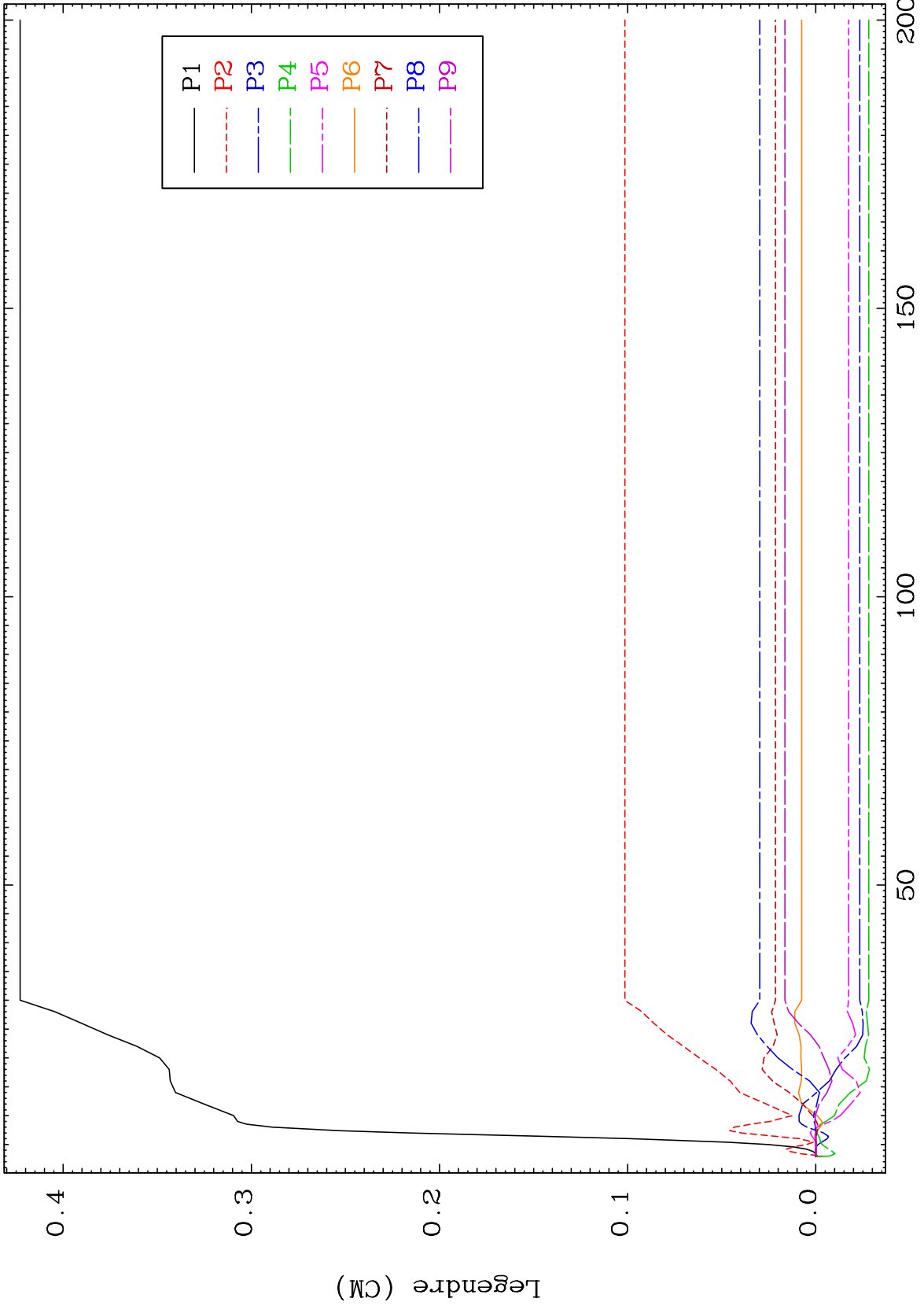


115 50 100 150 200 60-Nd-140

MAT 6019

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

60-Nd-140



116

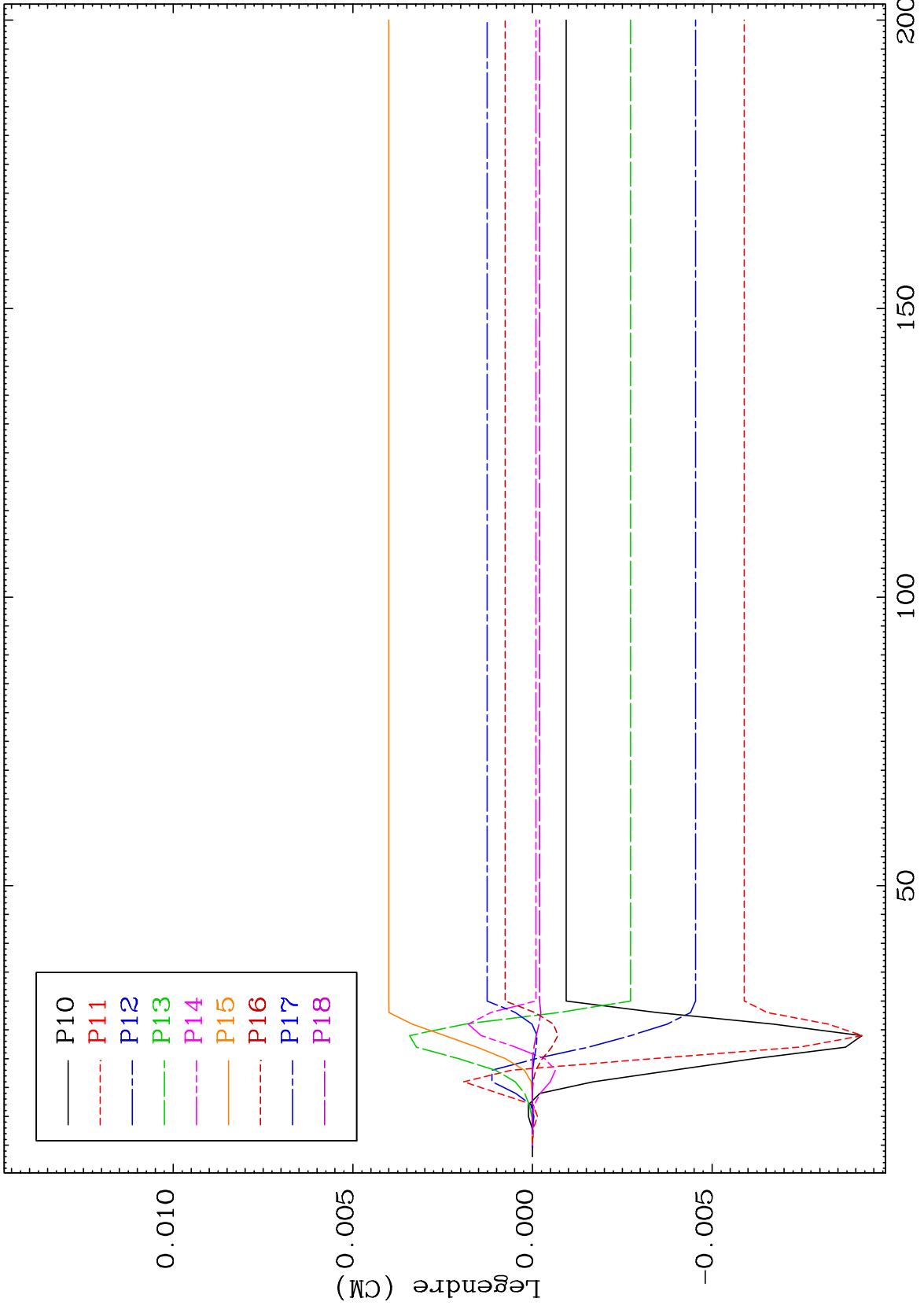
Incident Energy (MeV)

60-Nd-140

MAT 6019

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

60-Nd-140

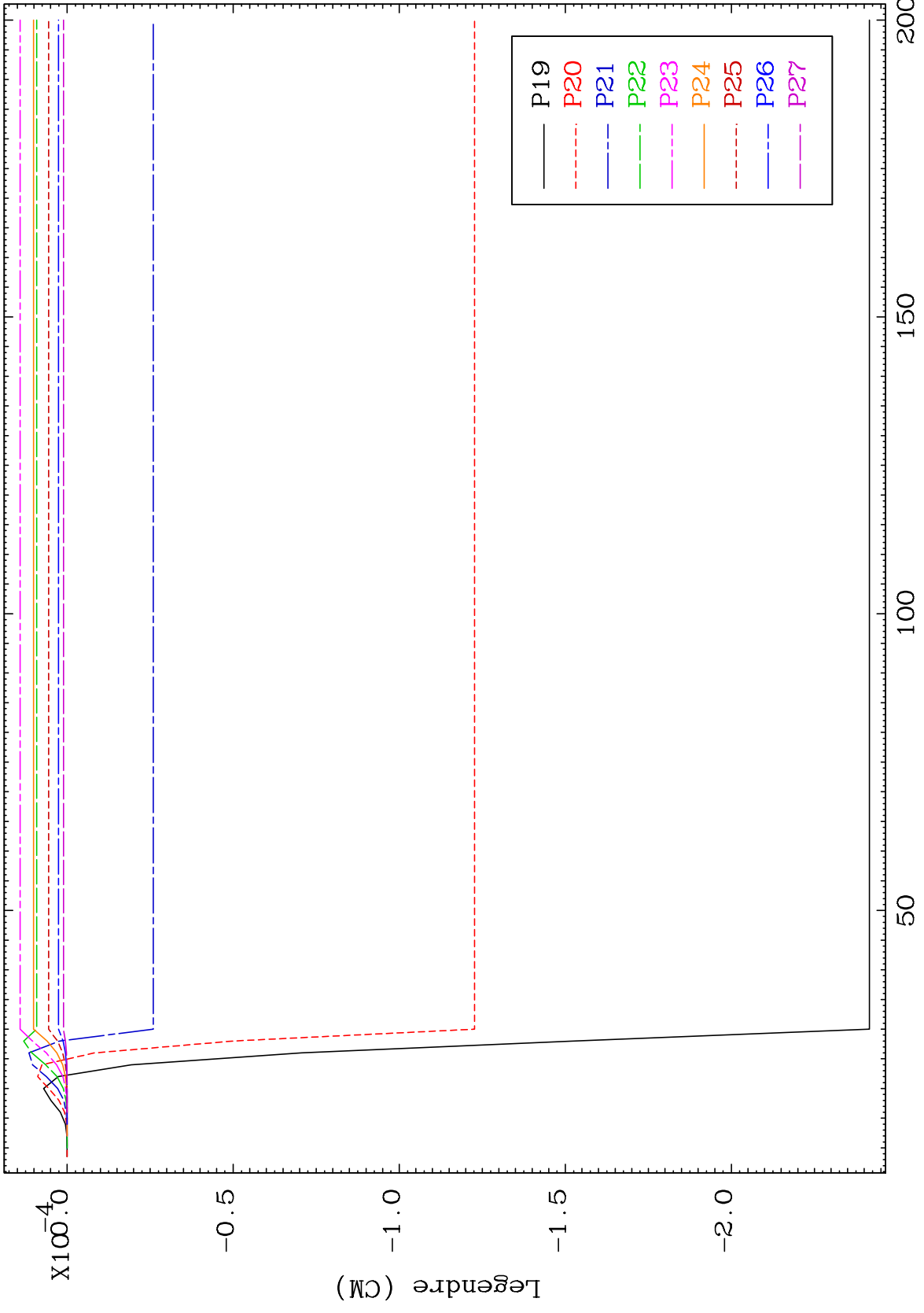


117

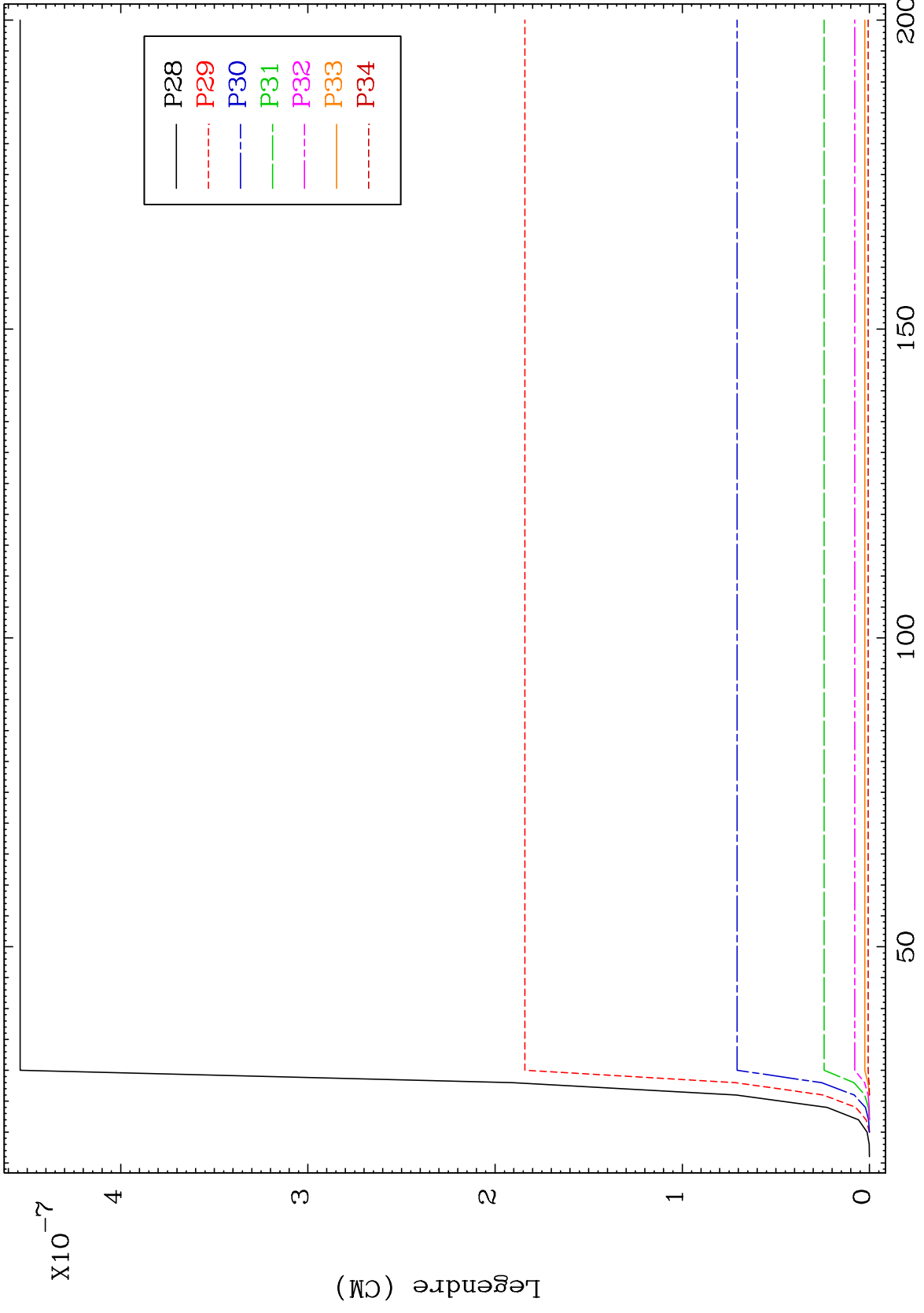
Incident Energy (MeV)

60-Nd-140

MAT 6019 MT= 76 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019 MT= 76 (n,n') Level Legendre Coefficients 60-Nd-140

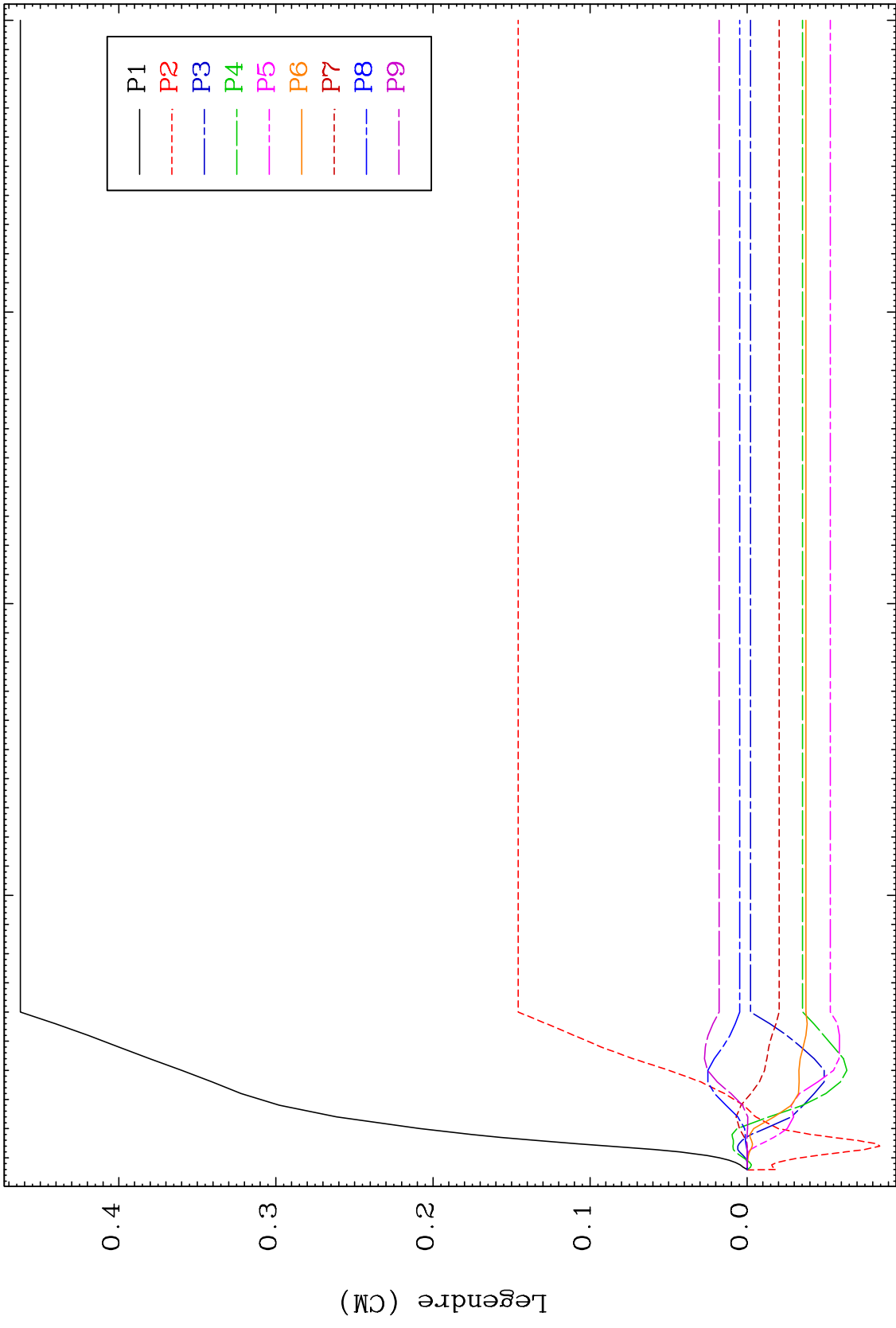


119

Incident Energy (MeV)

60-Nd-140

MAT 6019 MT= 77 (n,n') Level Legendre Coefficients 60-Nd-140

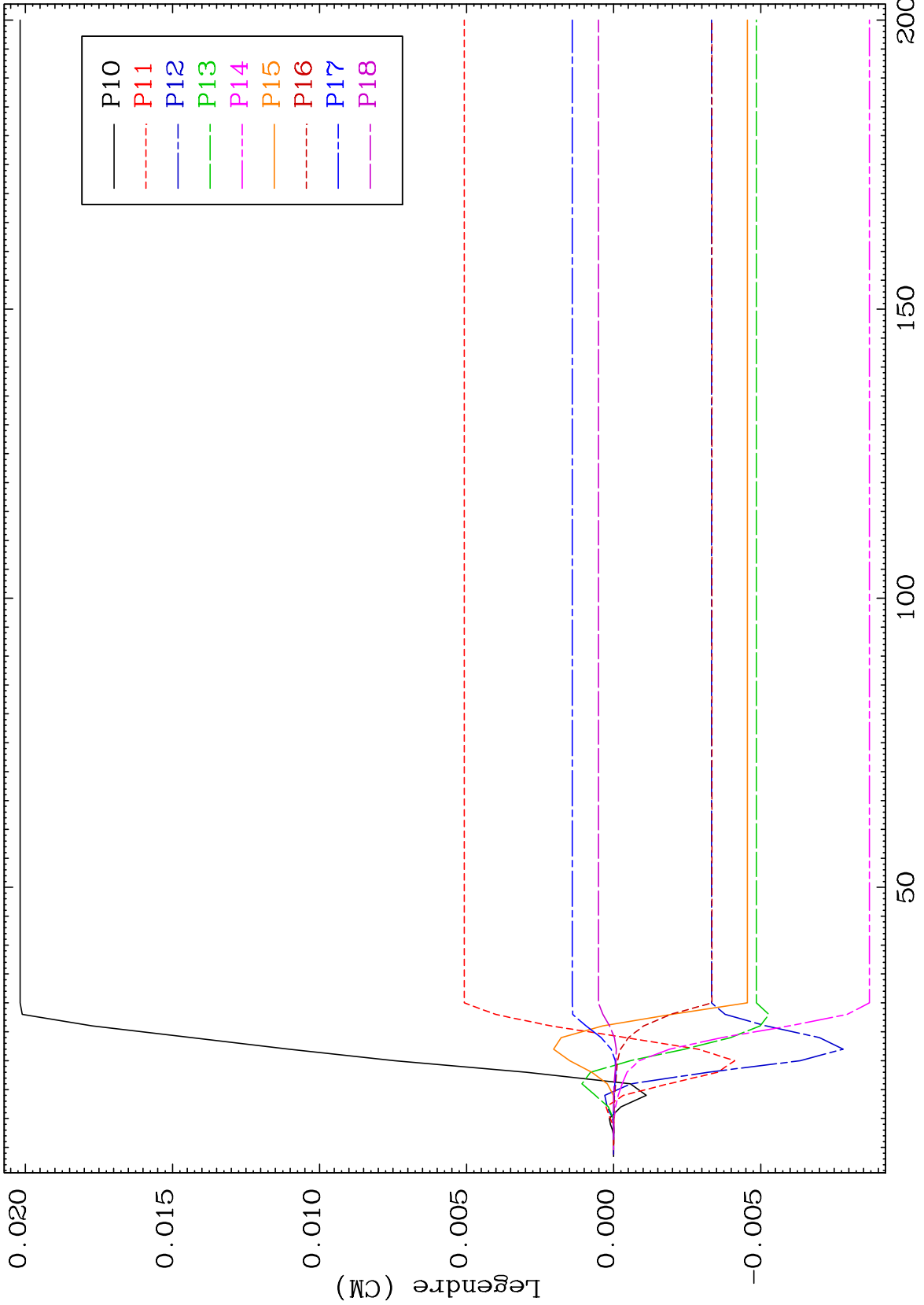


60-Nd-140

MAT 6019 MT= 77 (n,n') Level Legendre Coefficients

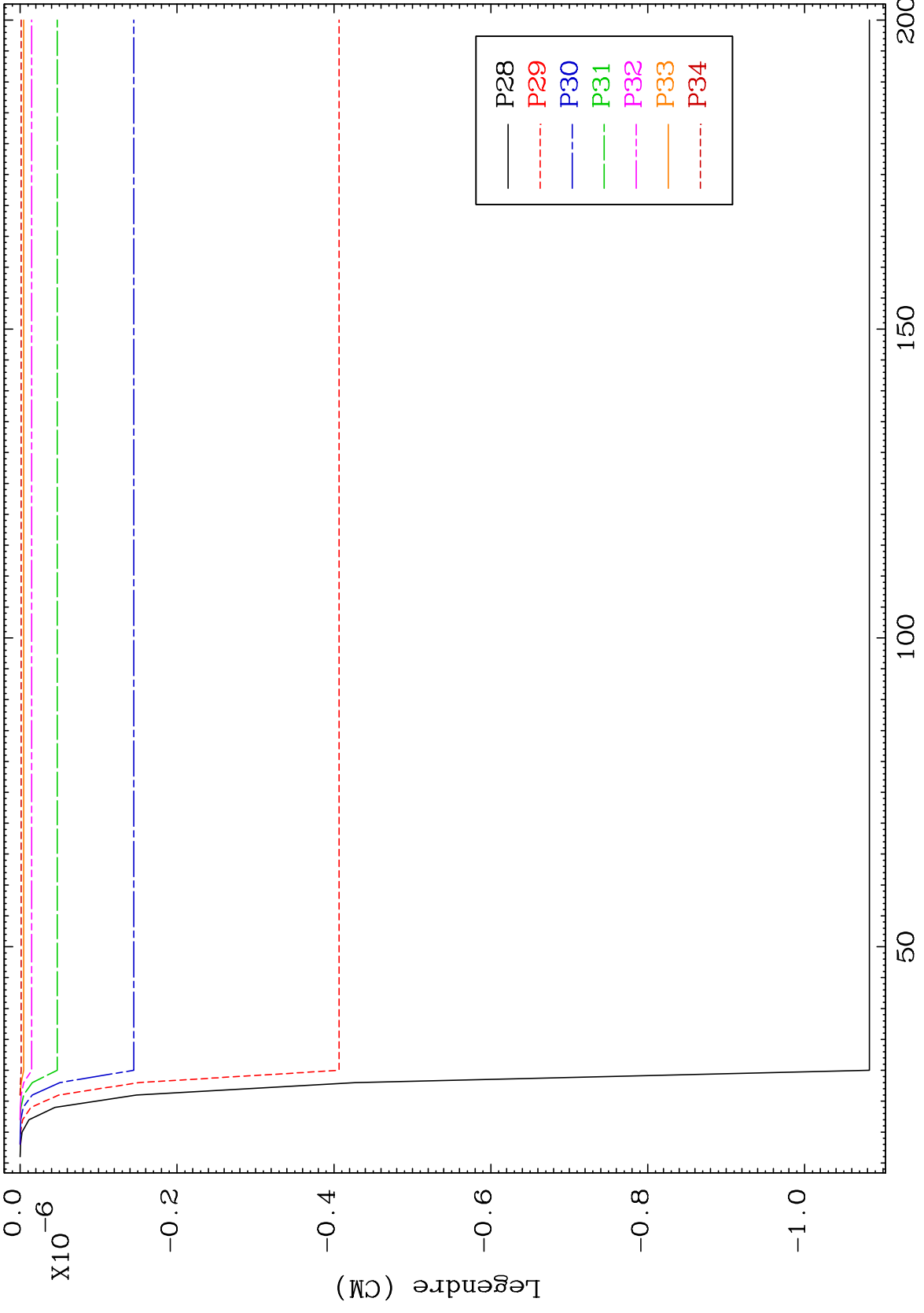
60-Nd-140

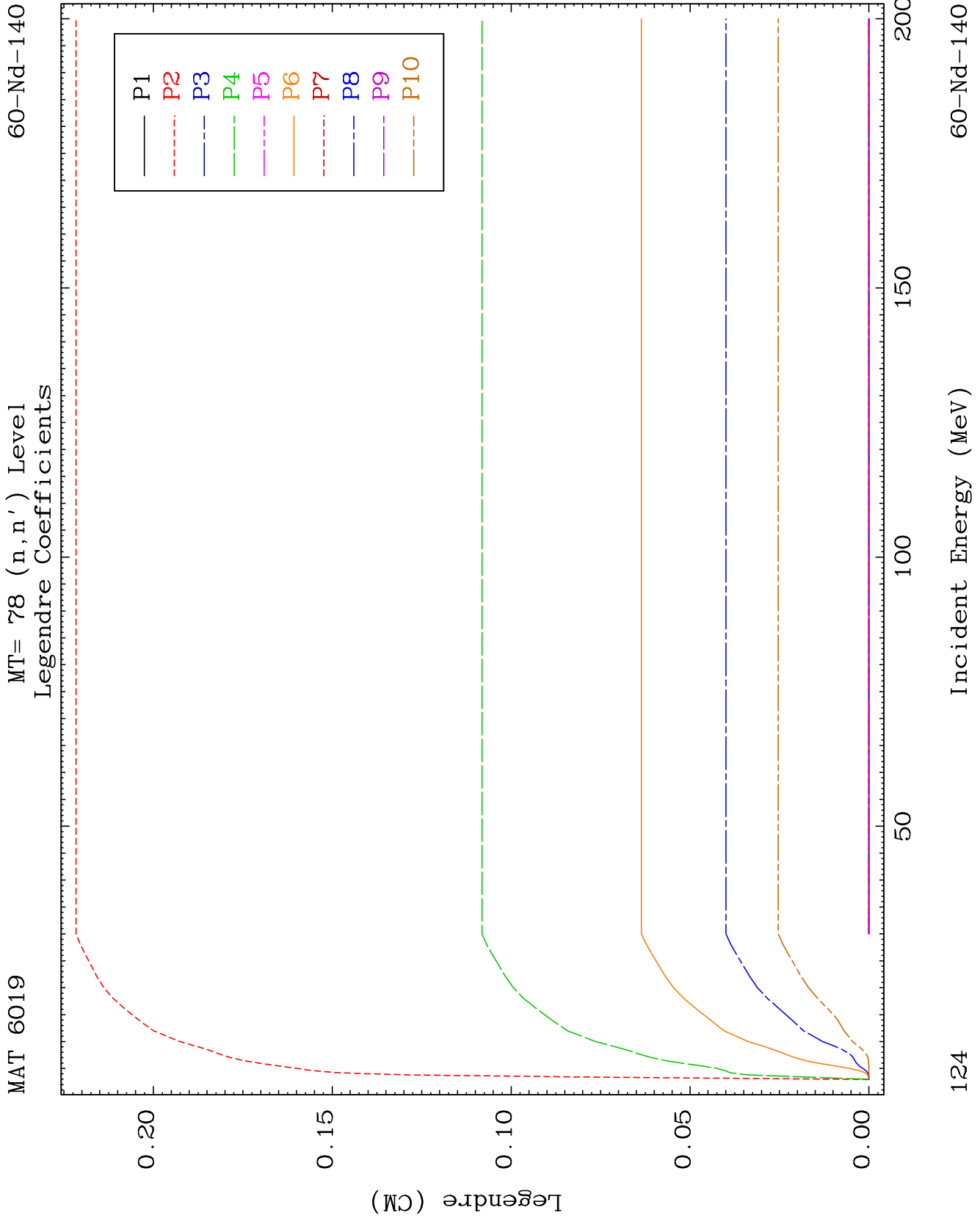
60-Nd-140



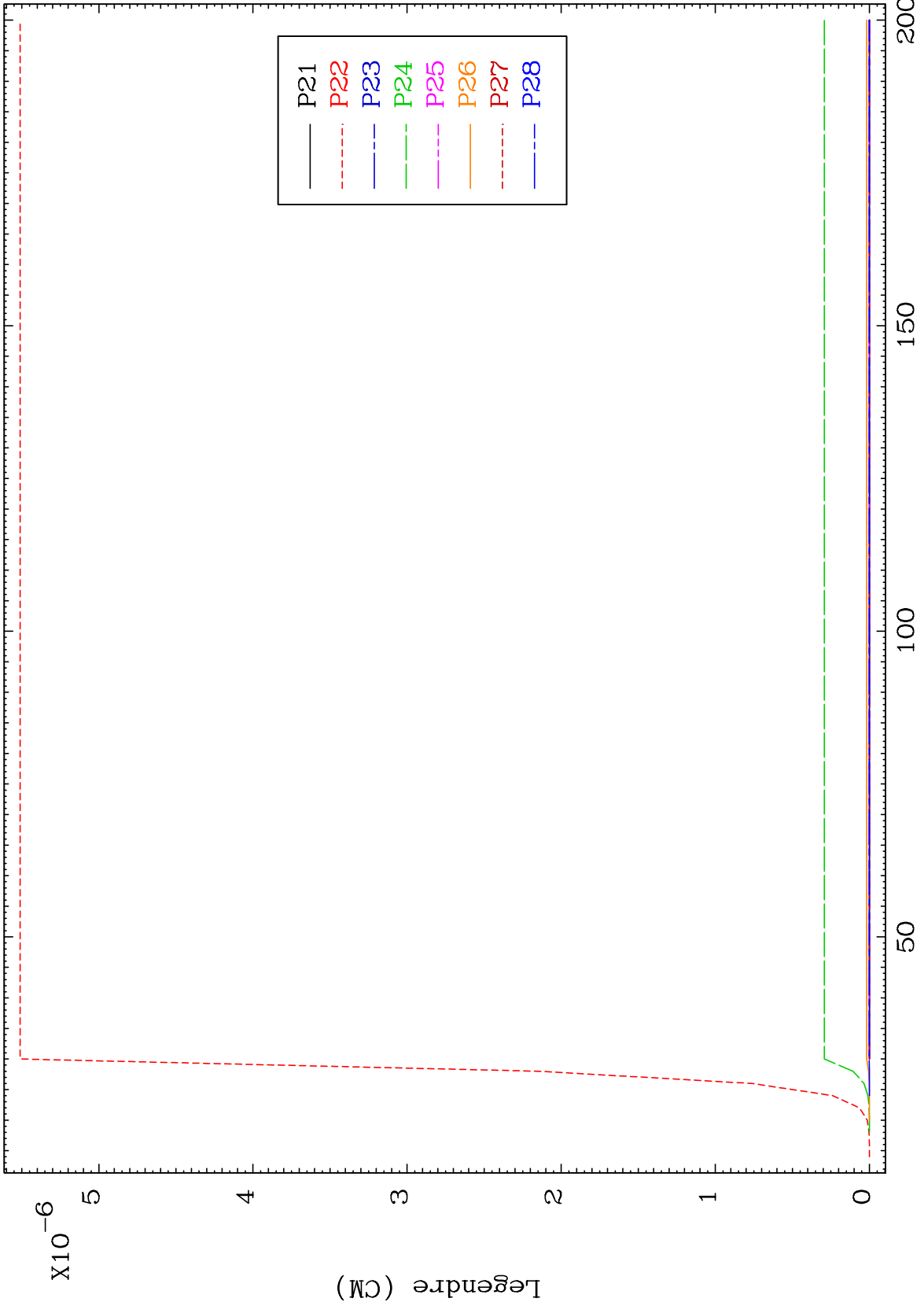
121

MAT 6019 MT= 77 (n,n') Level Legendre Coefficients 60-Nd-140





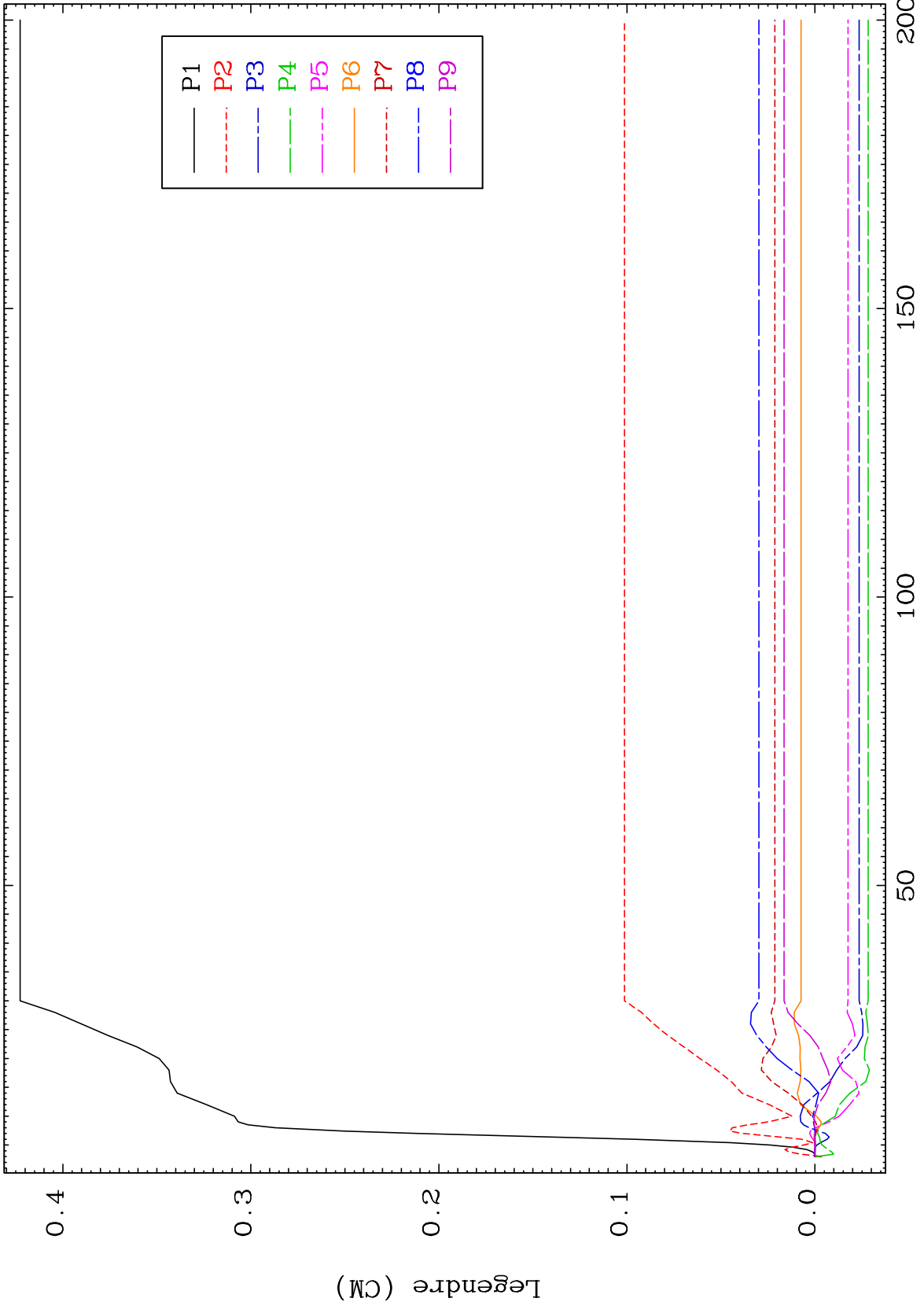
MAT 6019 MT= 78 (n,n') Level Legendre Coefficients 60-Nd-140



126 50 100 150 200 60-Nd-140

MAT 6019 MT= 79 (n,n') Level Legendre Coefficients

60-Nd-140



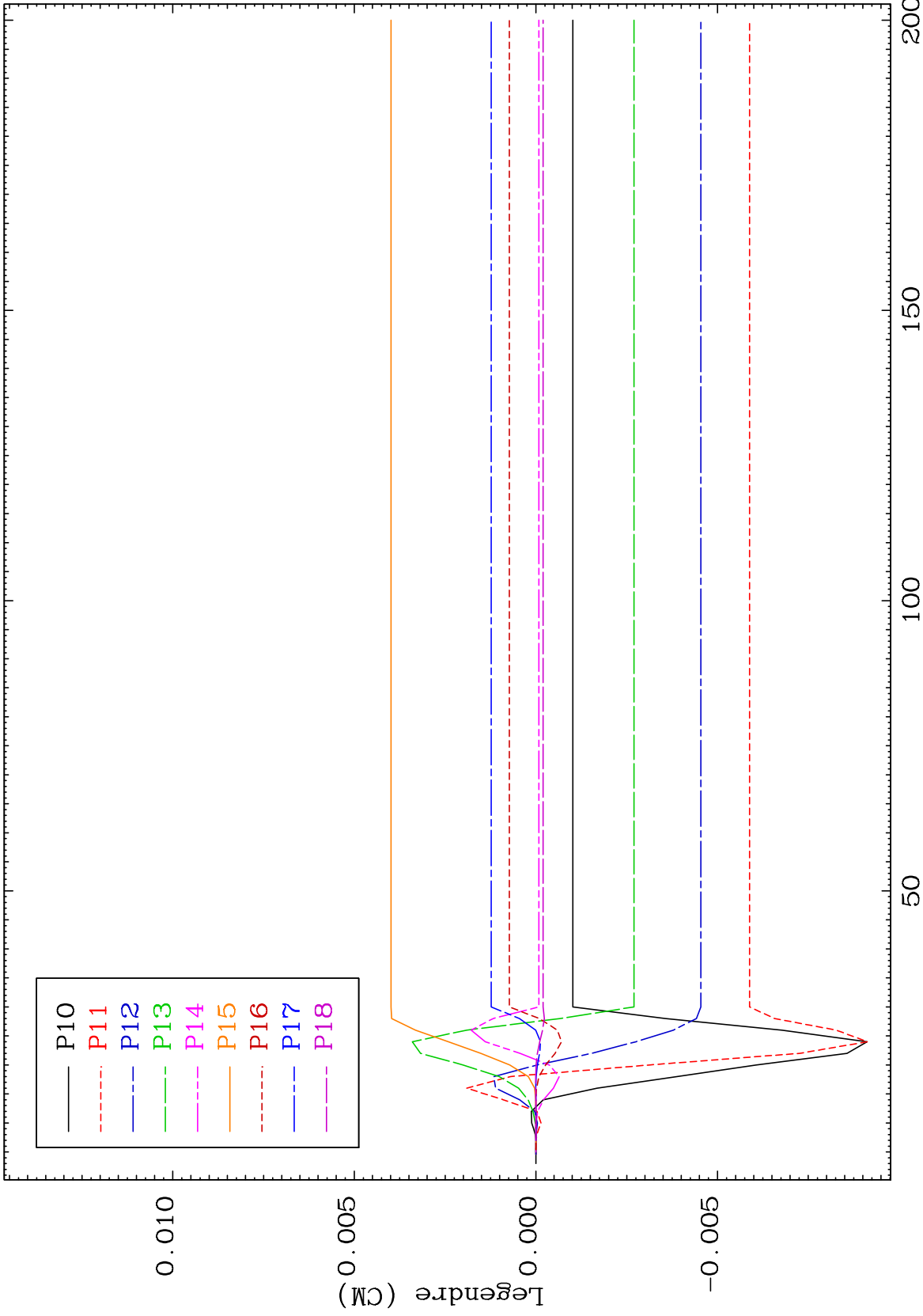
60-Nd-140

Incident Energy (MeV)

MAT 6019

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

60-Nd-140

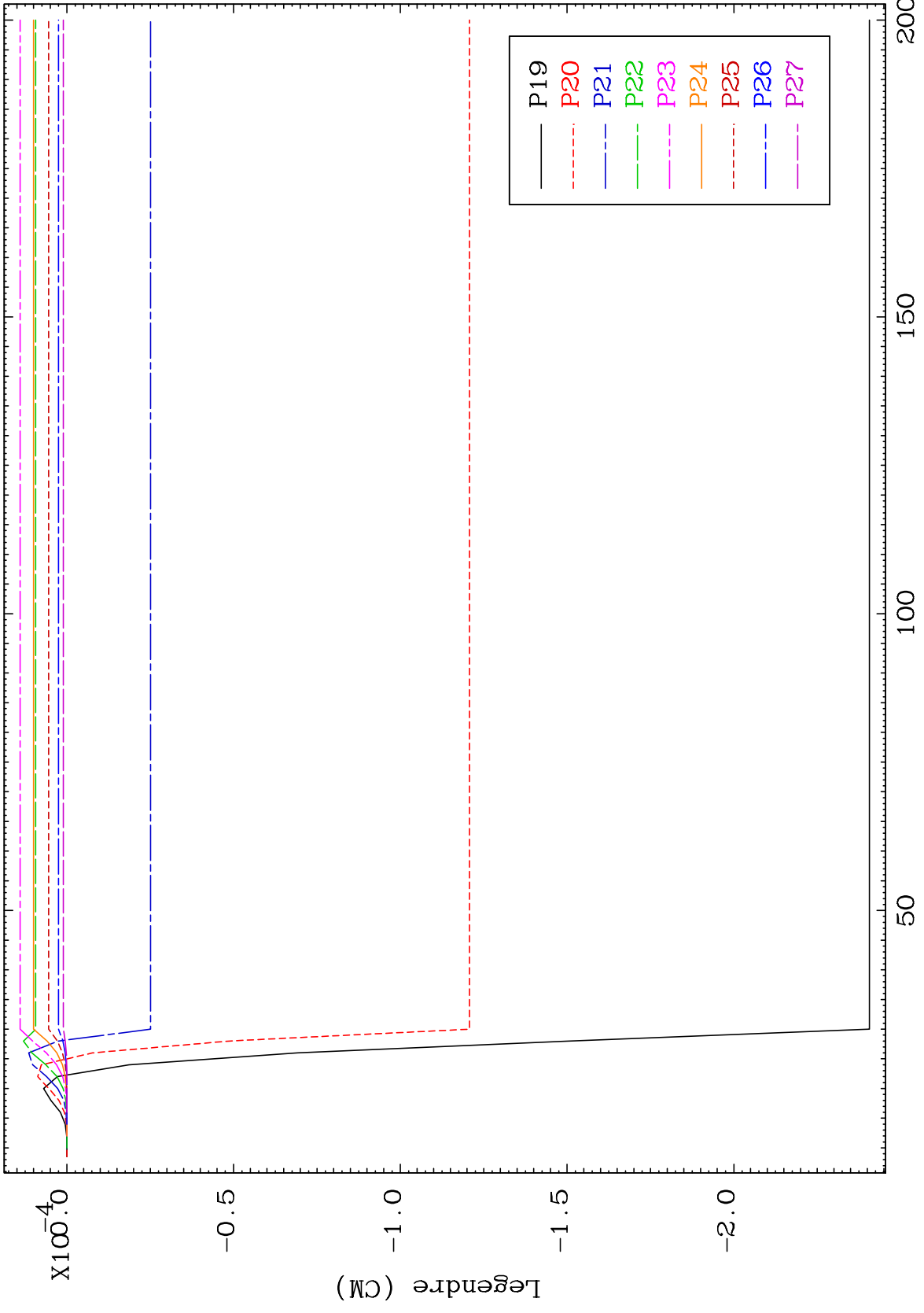


128

Incident Energy (MeV)

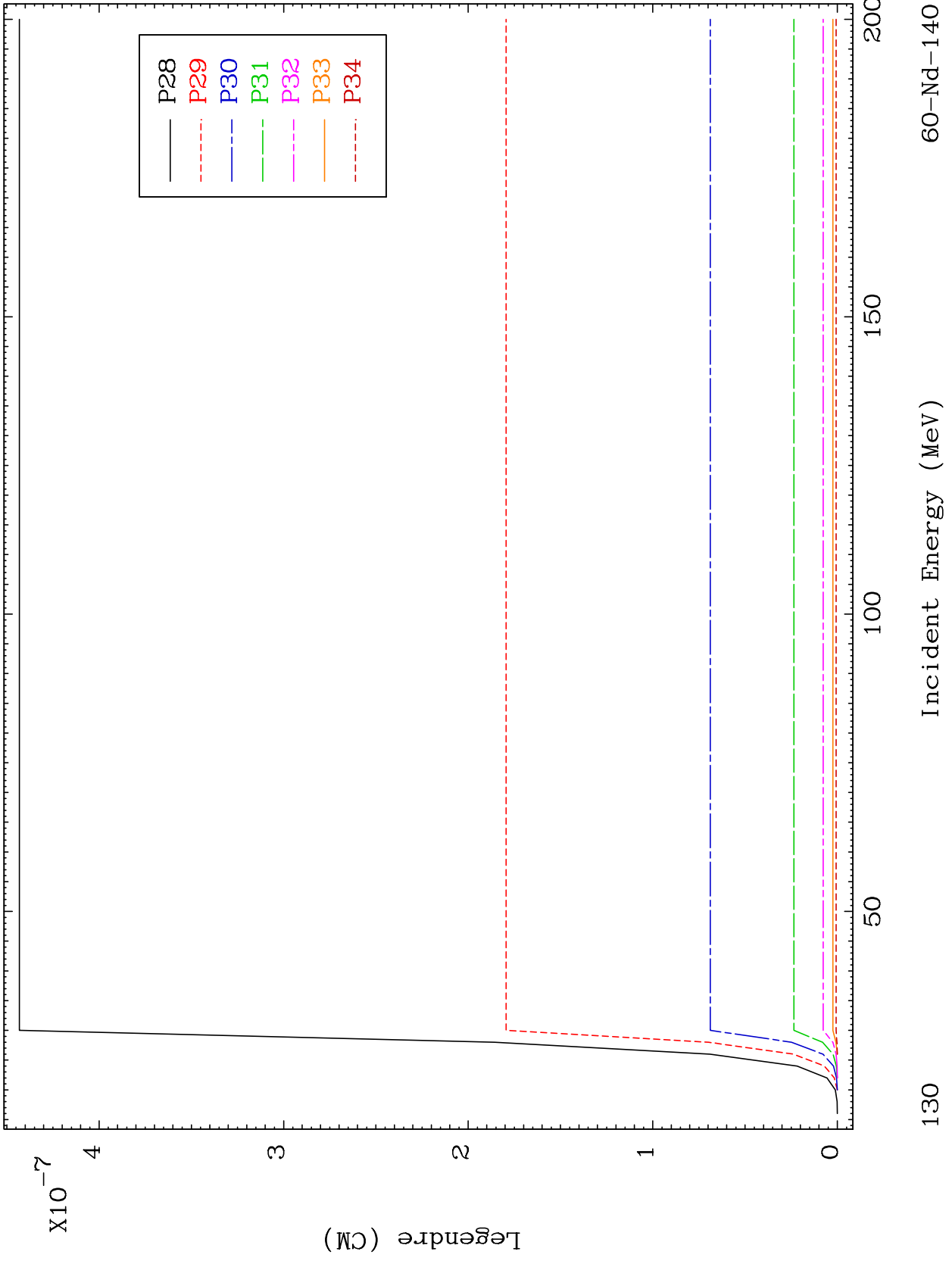
60-Nd-140

MAT 6019 MT= 79 (n,n') Level Legendre Coefficients 60-Nd-140

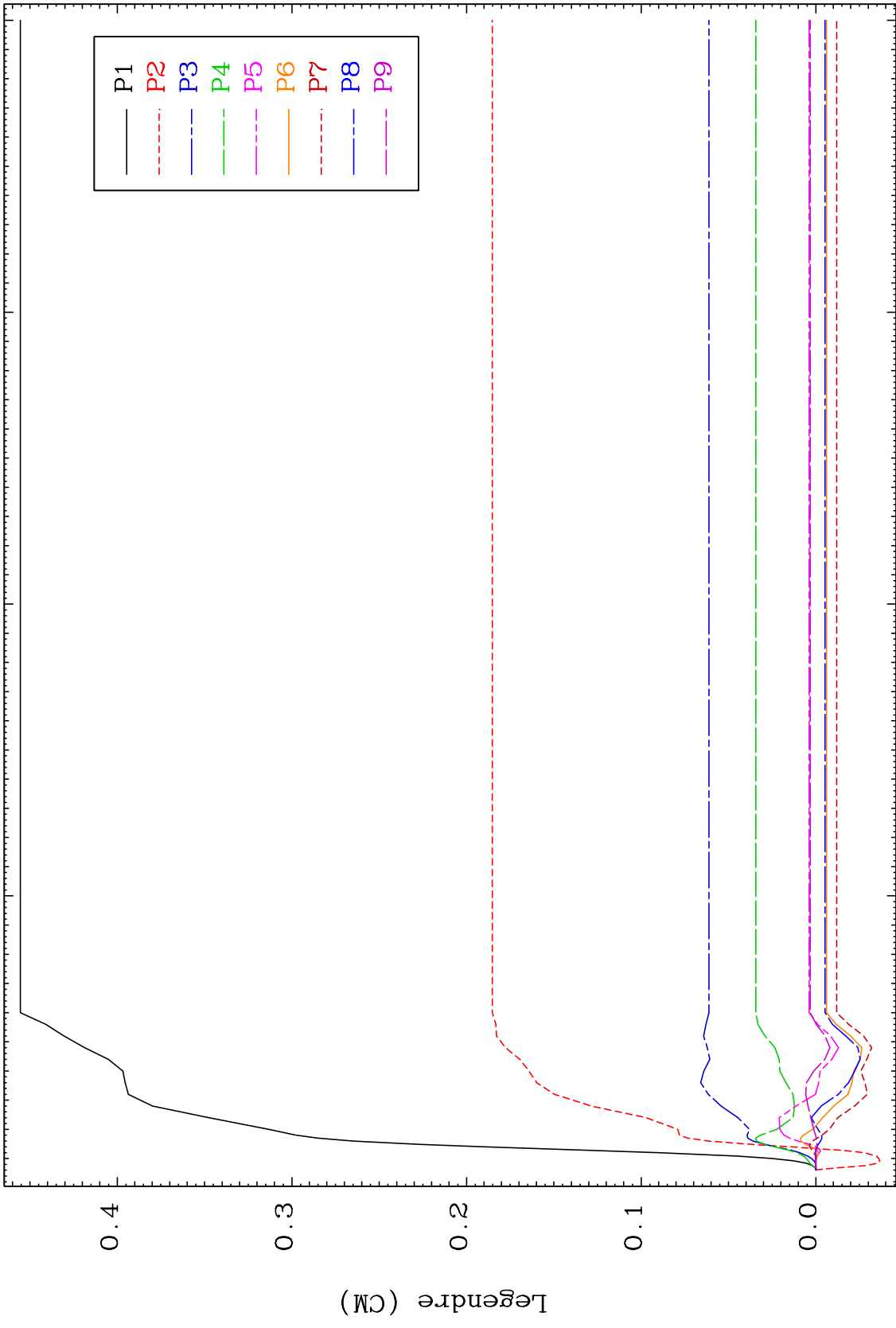


129 60-Nd-140

MAT 6019 MT= 79 (n,n') Level Legendre Coefficients 60-Nd-140



MAT 6019 MT= 80 (n,n') Level Legendre Coefficients 60-Nd-140



131 60-Nd-140

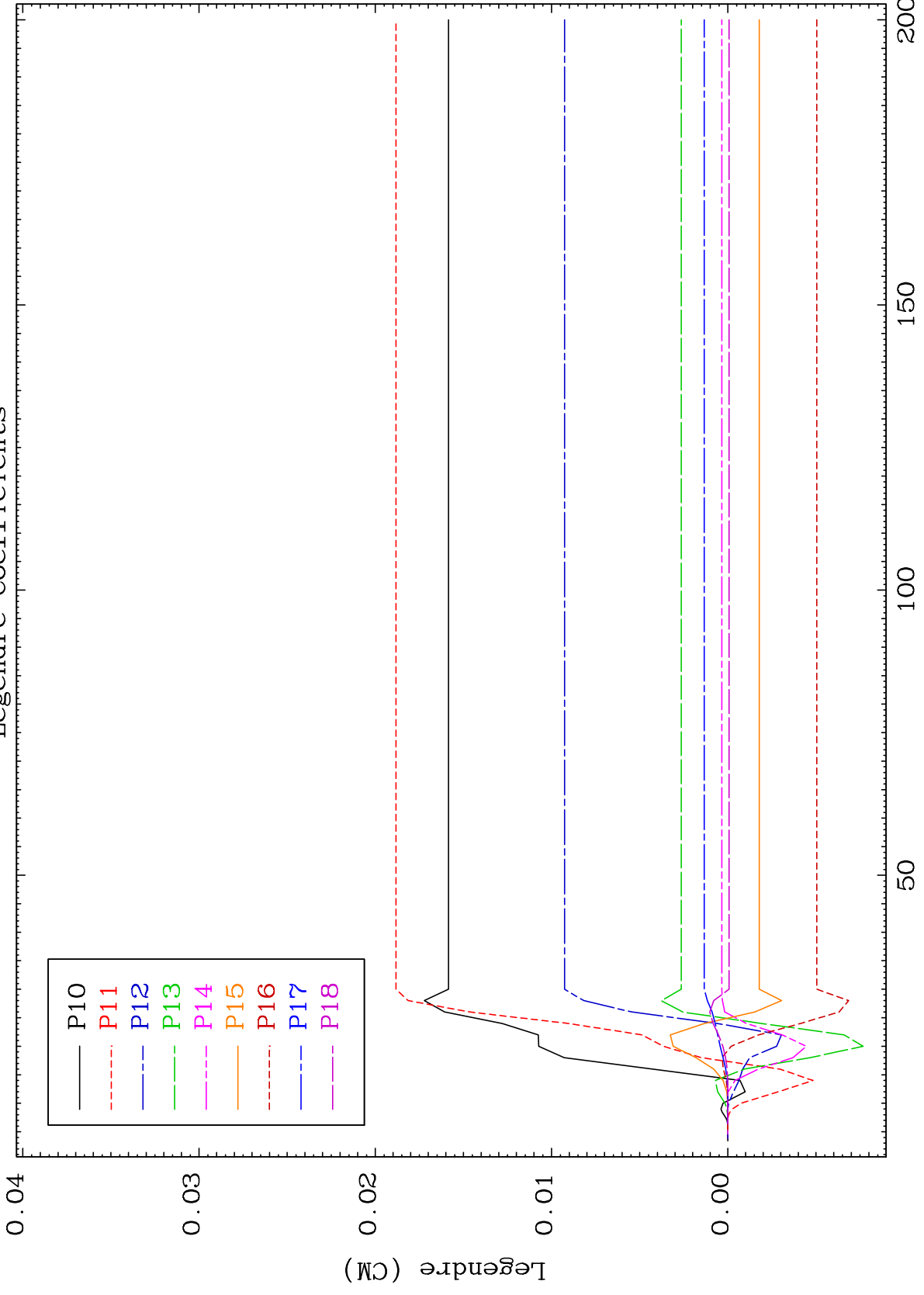
MAT 6019 MT= 80 (n,n') Level Legendre Coefficients

60-Nd-140

60-Nd-140

Incident Energy (MeV)

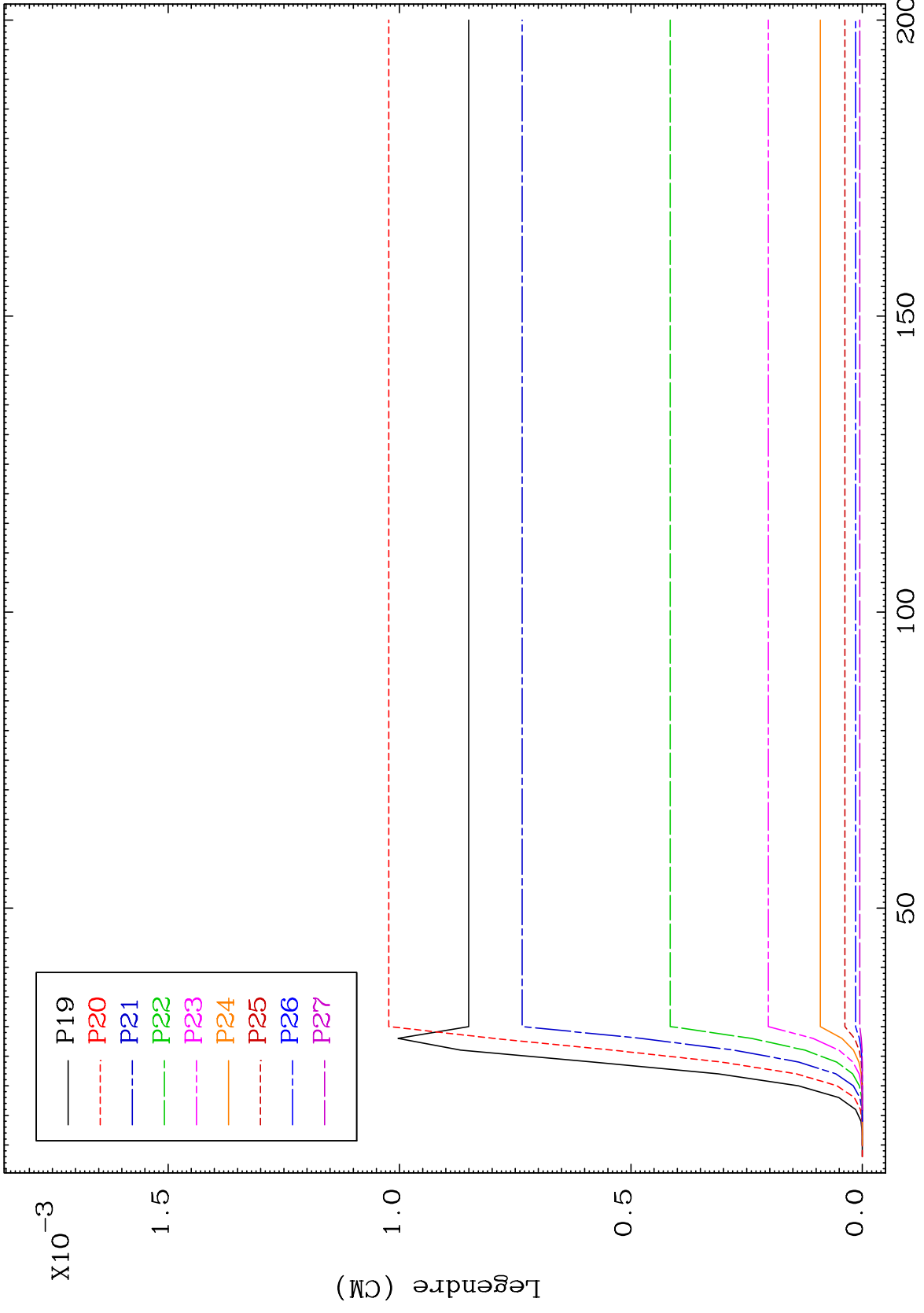
132



MAT 6019

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

60-Nd-140

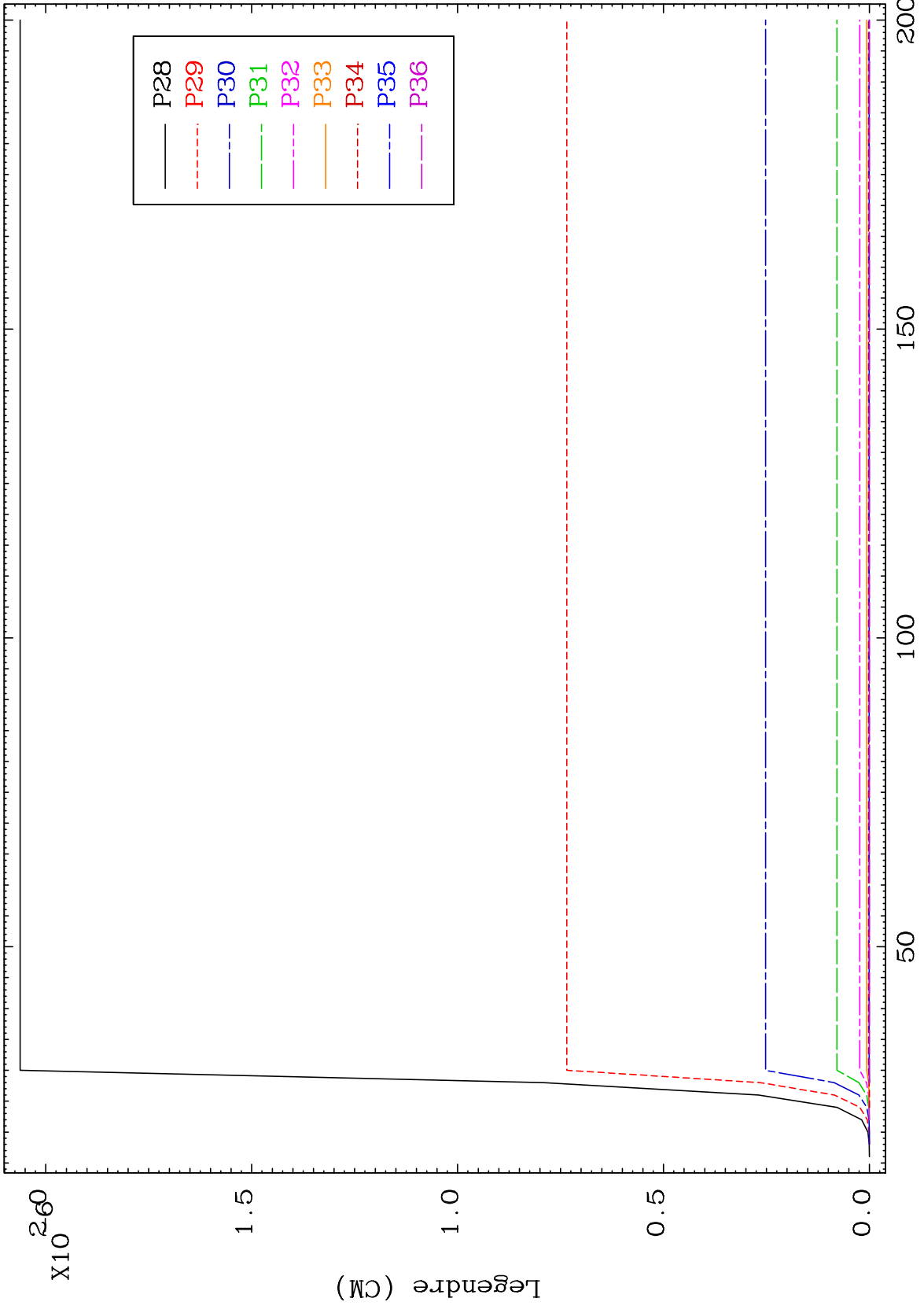


133

Incident Energy (MeV)

60-Nd-140

MAT 6019 MT= 80 (n,n') Level Legendre Coefficients 60-Nd-140

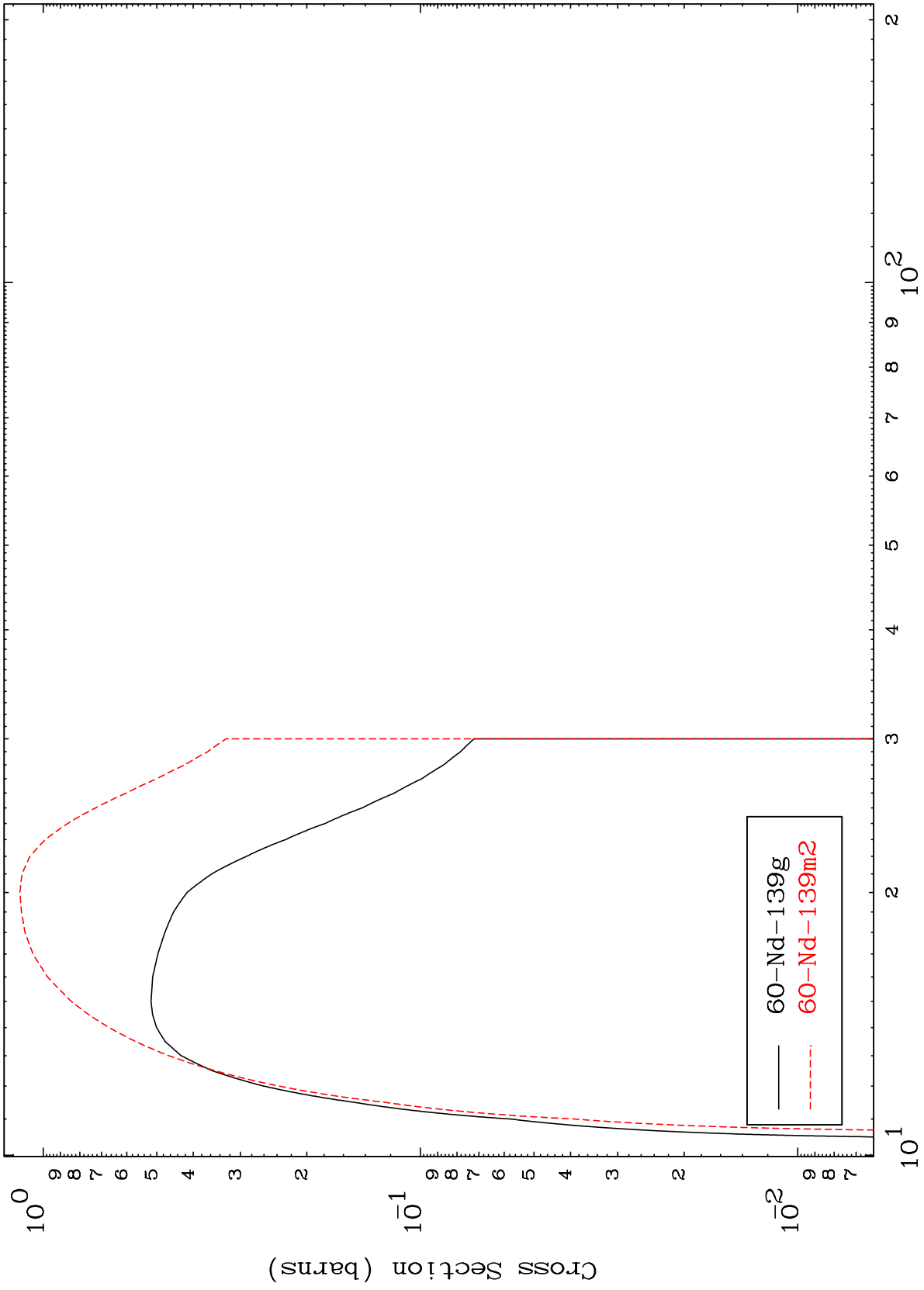


134 60-Nd-140

MAT 6019

60-Nd-140

(n,2n)
Radionuclide Production Cross Section



60-Nd-140

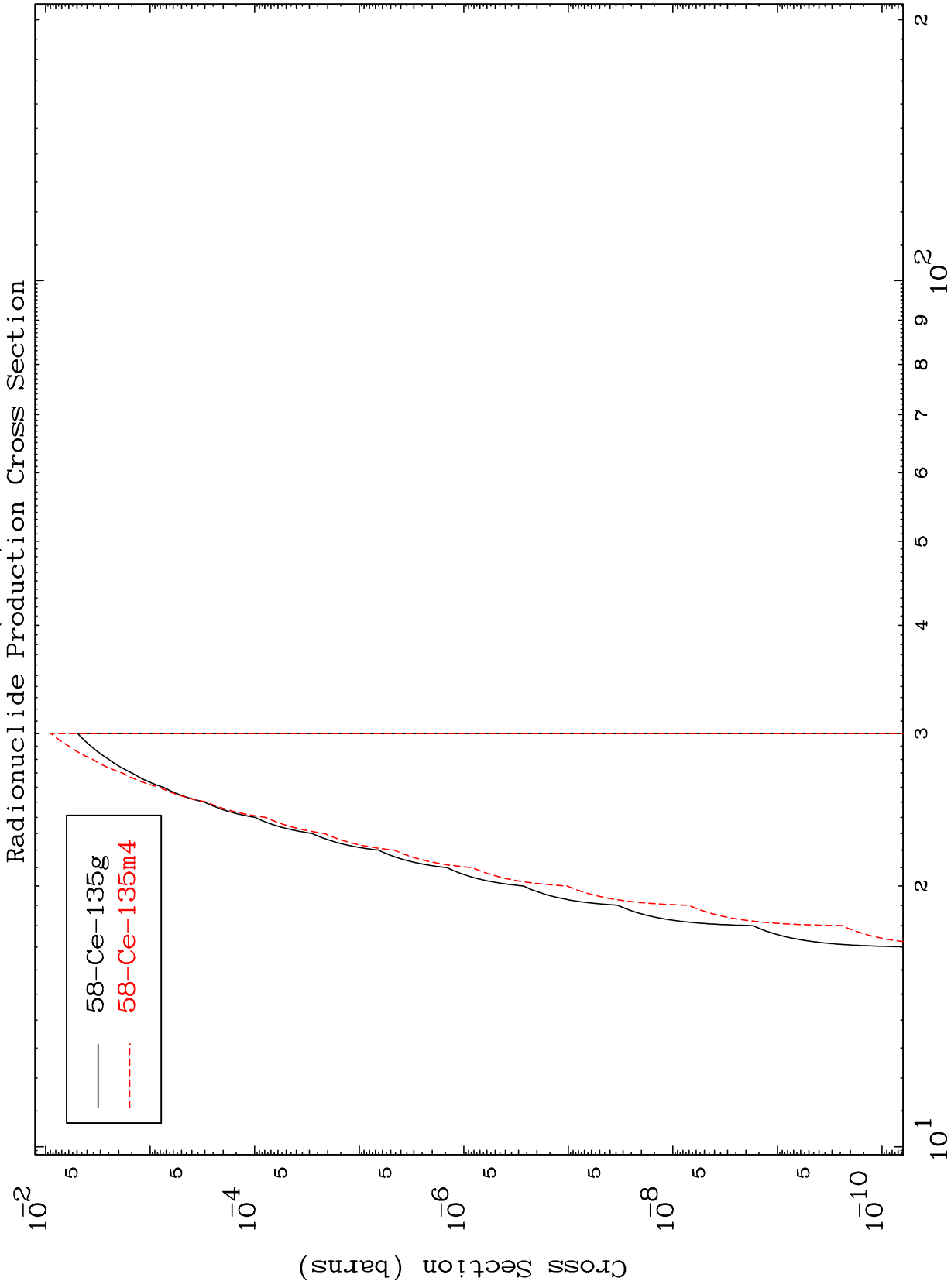
Incident Energy (MeV)

135

MAT 6019

(n,2n) α

60-Nd-140

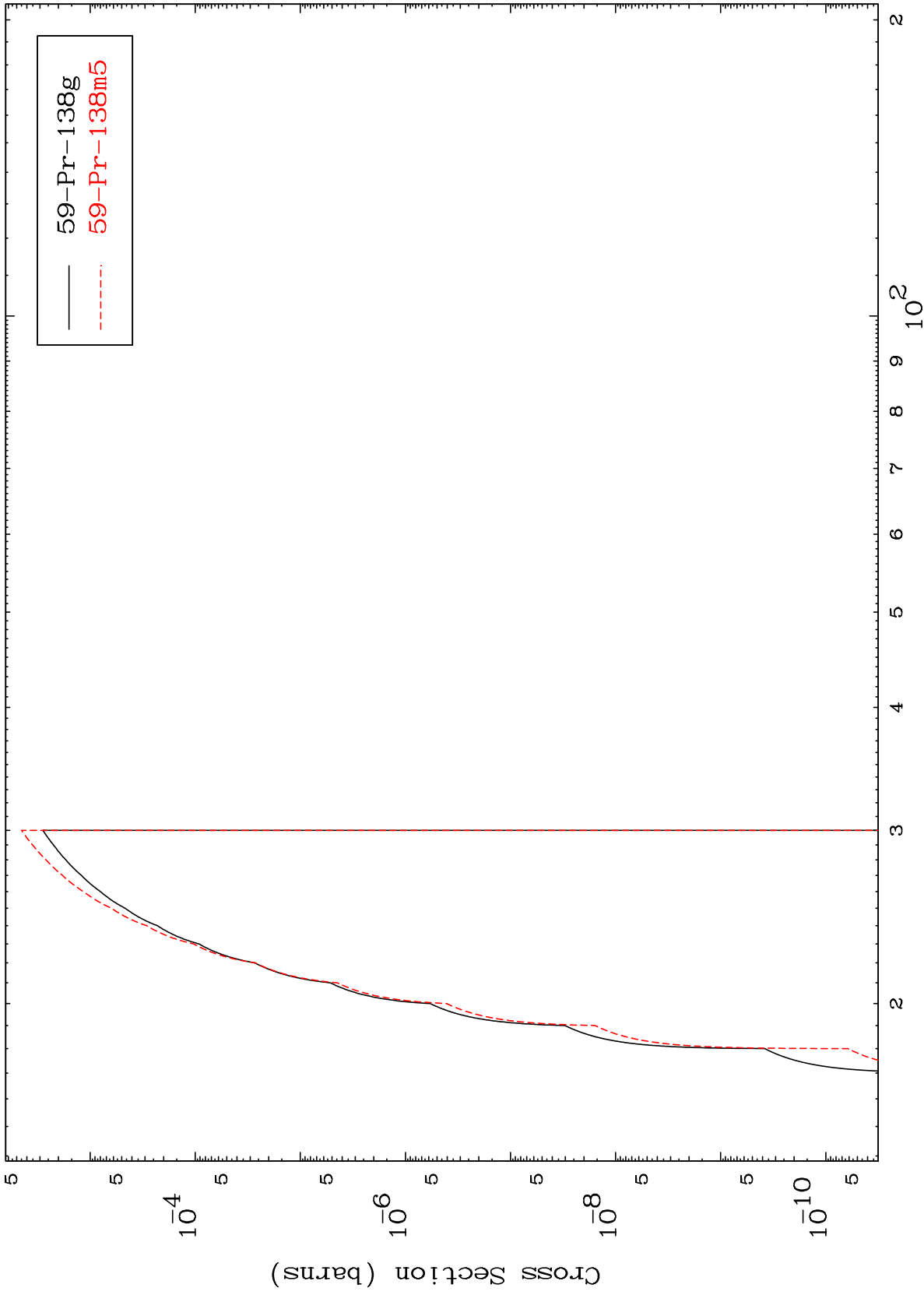


MAT 6019

(n,n') d

60-Nd-140

Radionuclide Production Cross Section



137

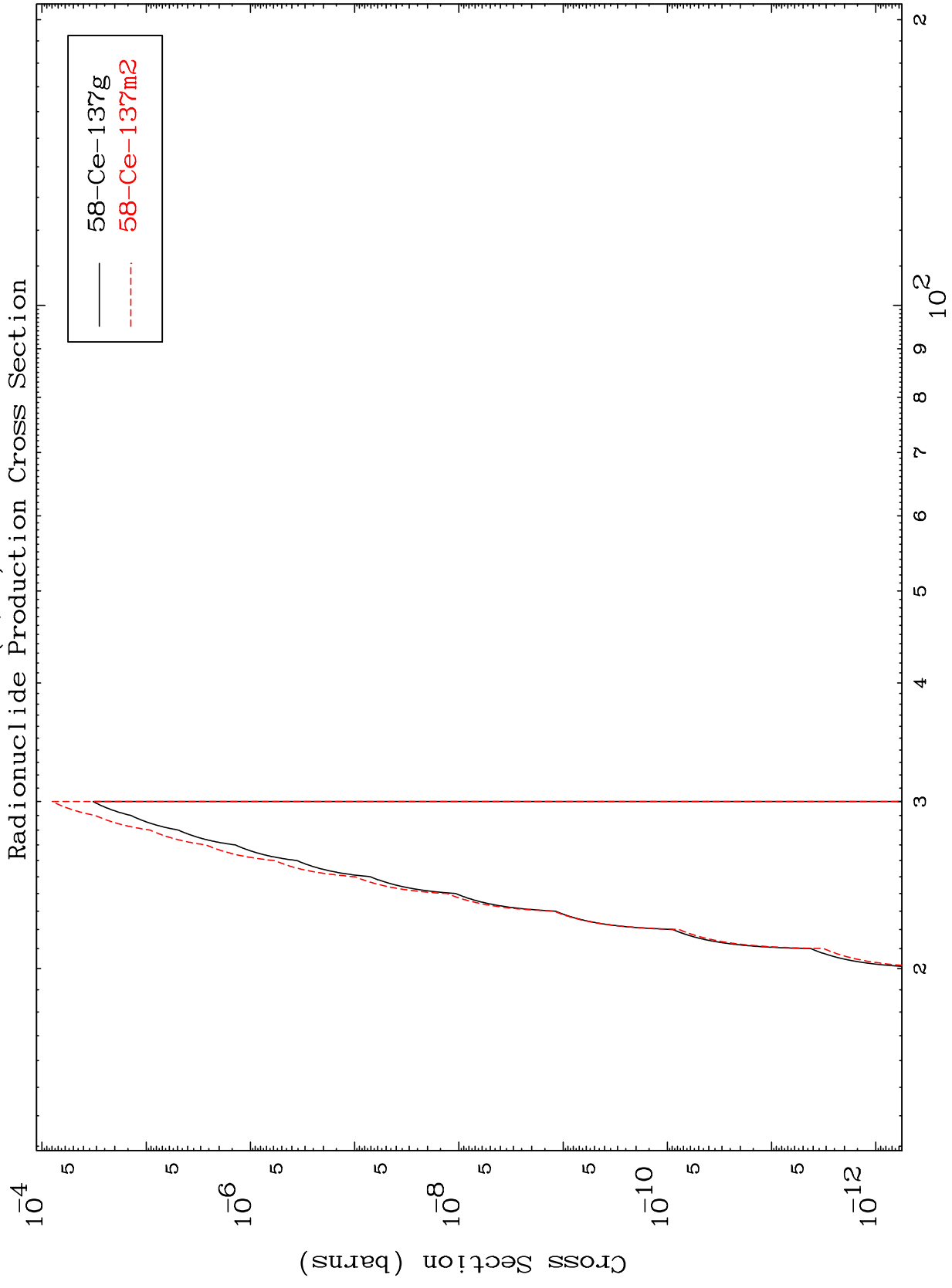
Incident Energy (MeV)

60-Nd-140

MAT 6019

(n, n') He-3

60-Nd-140



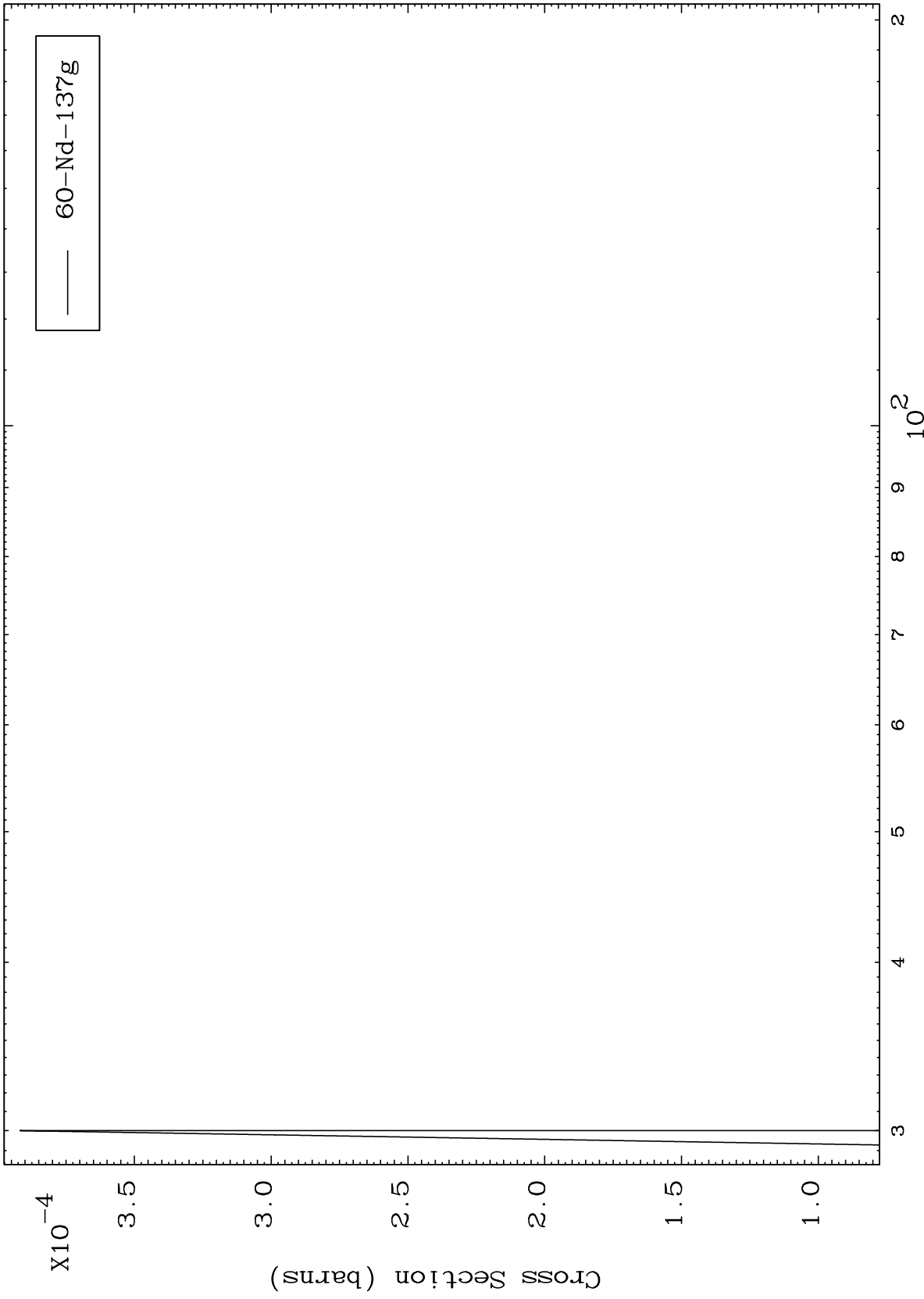
138

60-Nd-140

MAT 6019

60-Nd-140

(n,4n)
Radionuclide Production Cross Section



139

Incident Energy (MeV)

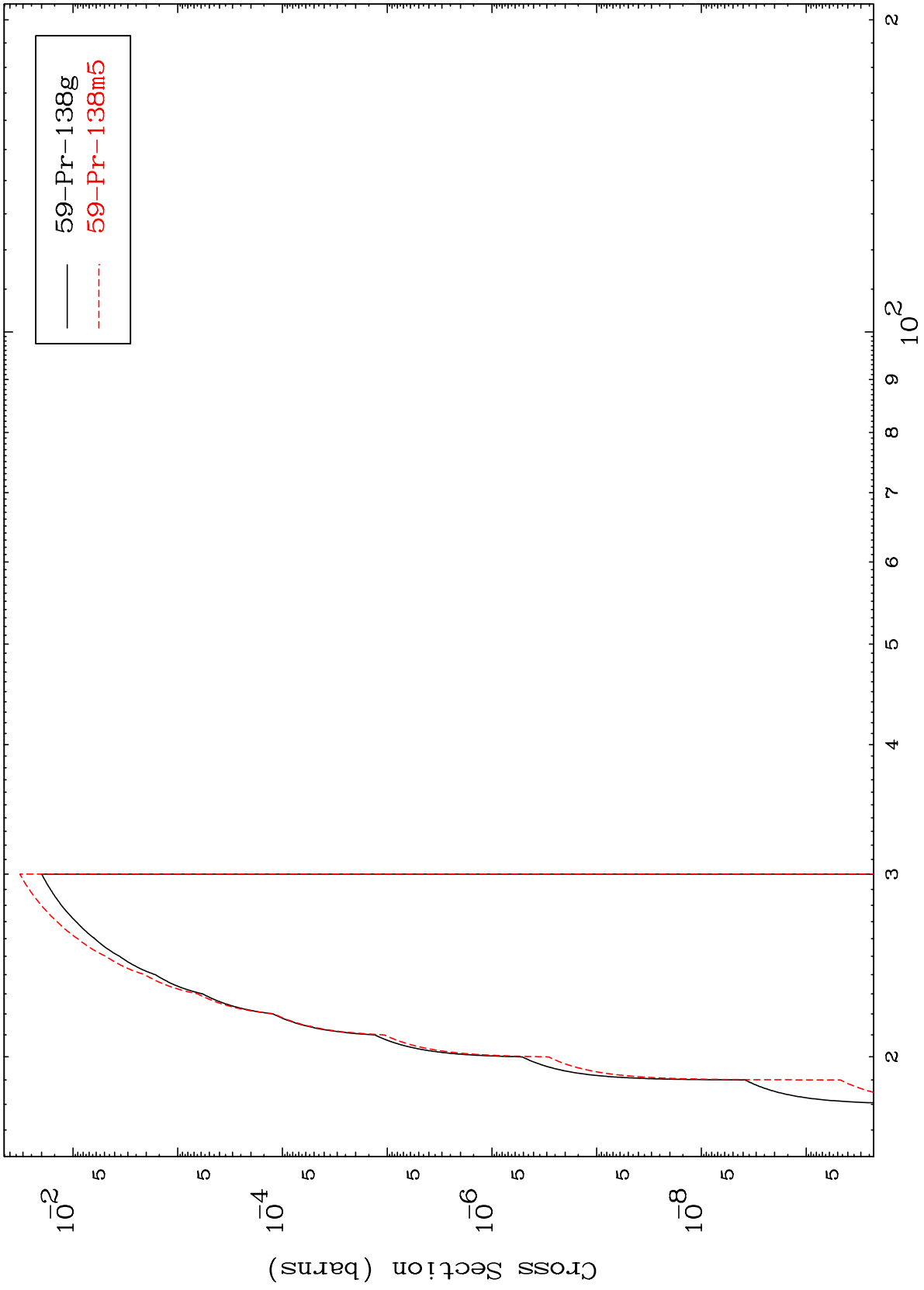
60-Nd-140

MAT 6019

(n,2n) p

60-Nd-140

Radionuclide Production Cross Section



140

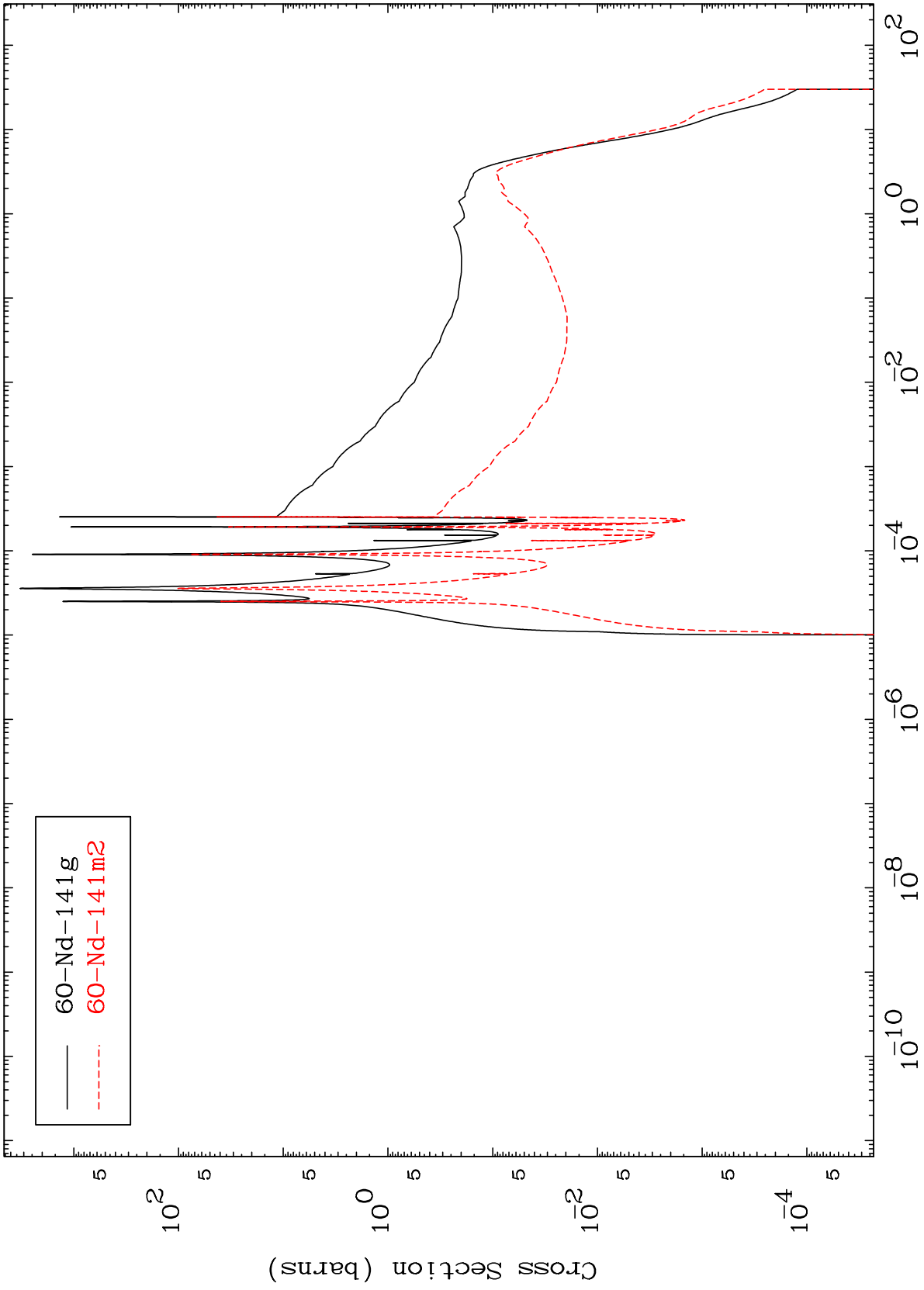
Incident Energy (MeV)

60-Nd-140

MAT 6019

60-Nd-140

(n,γ)
Radionuclide Production Cross Section



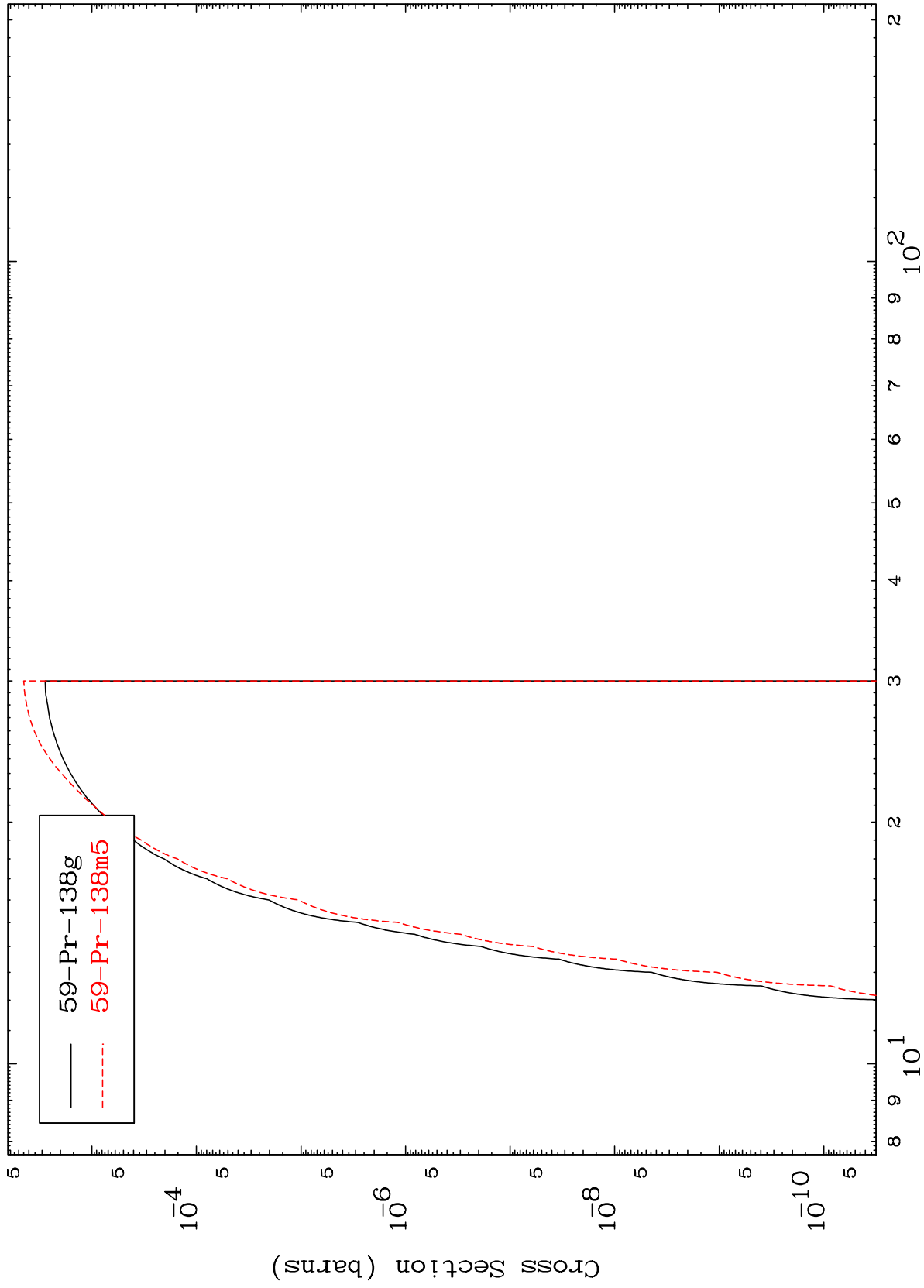
141

60-Nd-140

MAT 6019

60-Nd-140

(n, t)
Radionuclide Production Cross Section



142

Incident Energy (MeV)

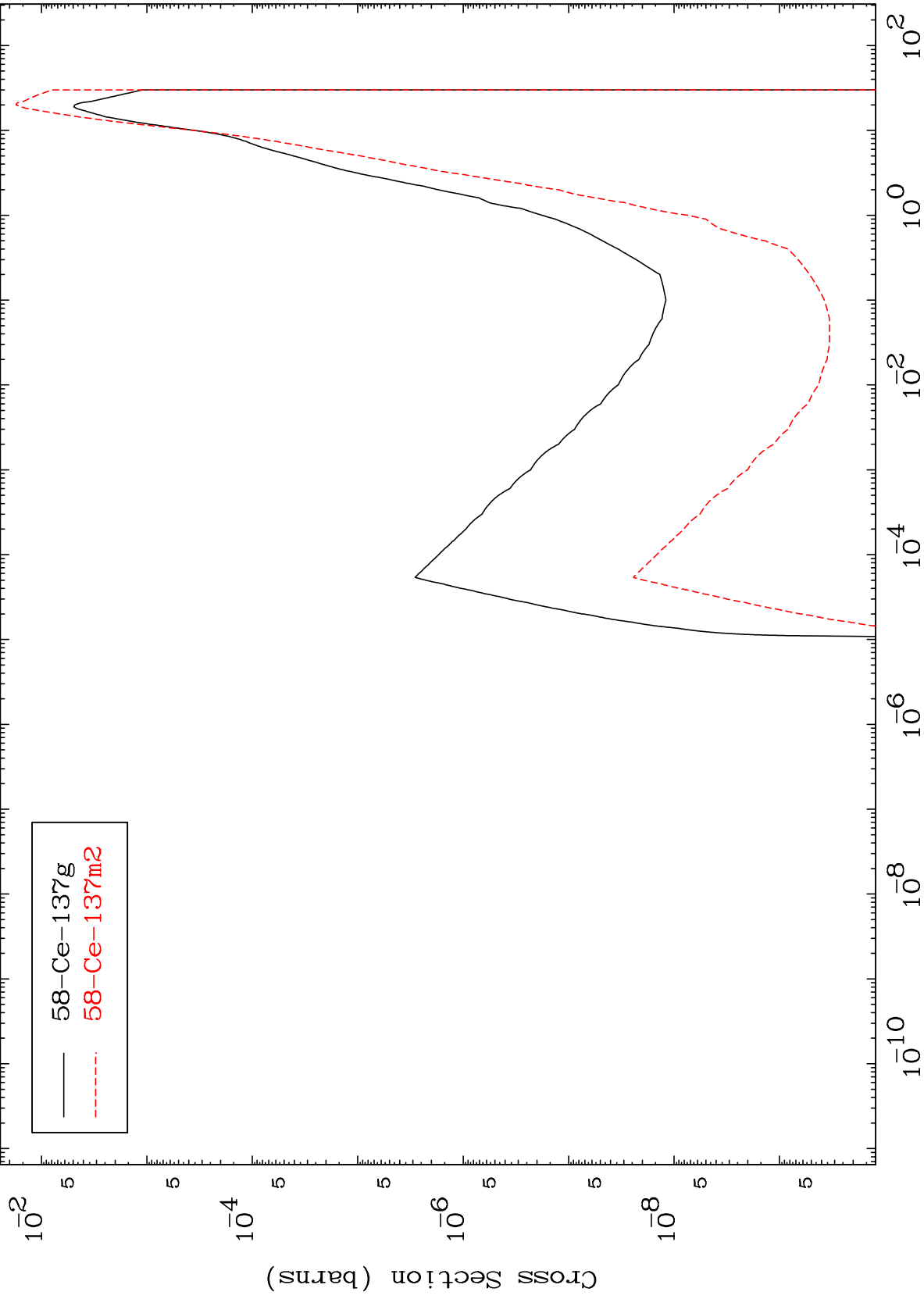
60-Nd-140

MAT 6019

(n, α)

60-Nd-140

Radionuclide Production Cross Section



143

Incident Energy (MeV)

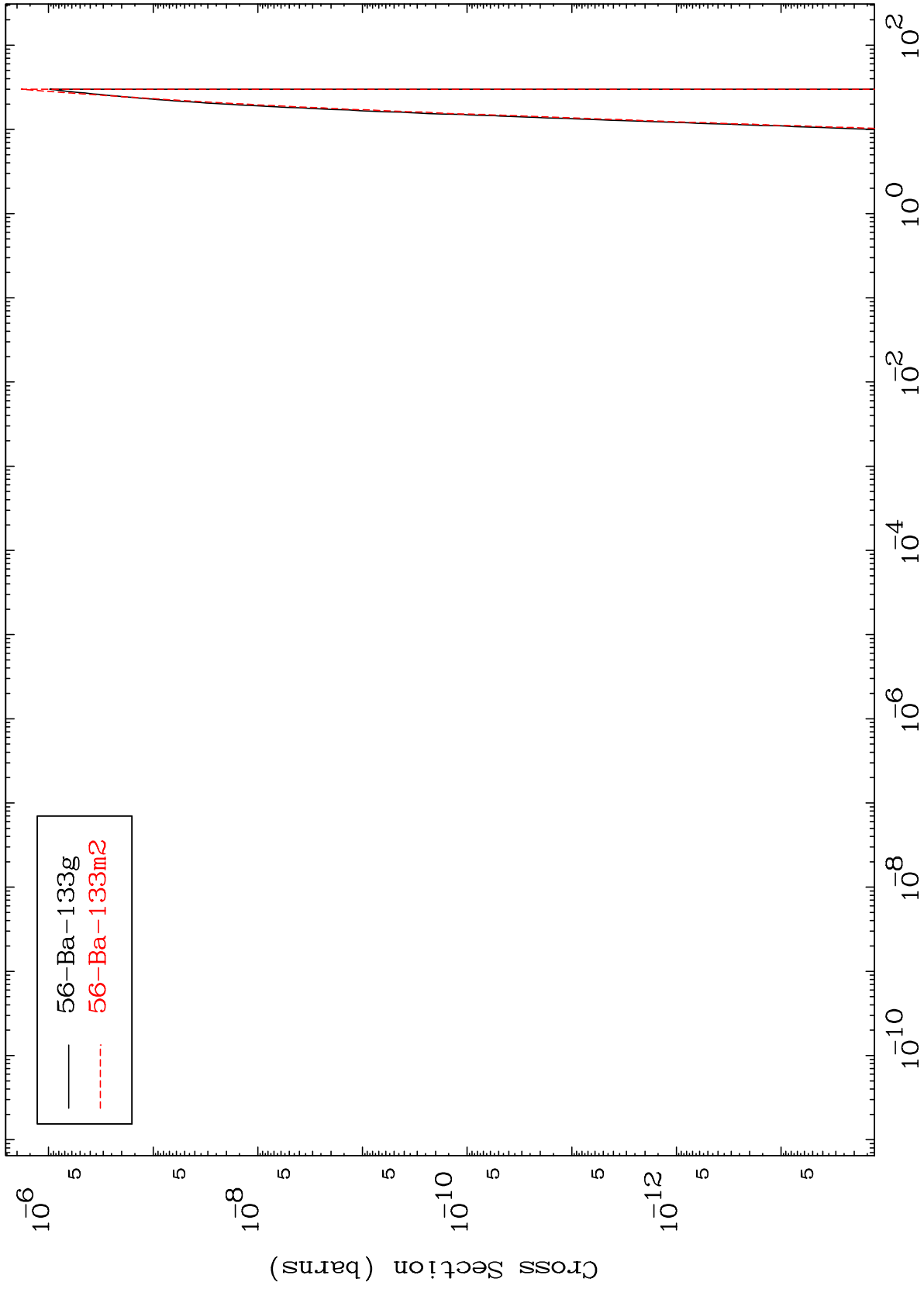
60-Nd-140

MAT 6019

(n,2α)

60-Nd-140

Radionuclide Production Cross Section



144

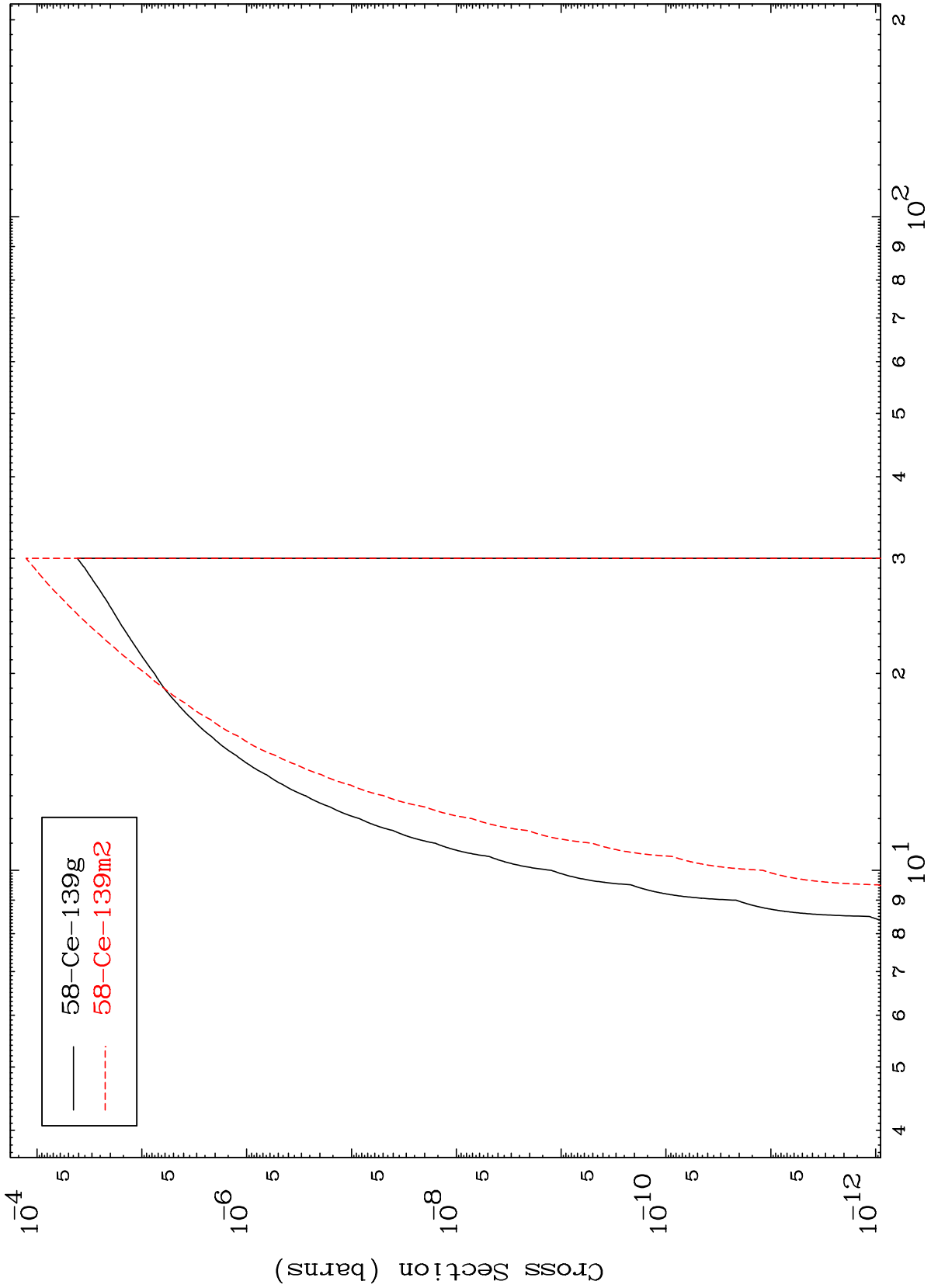
Incident Energy (MeV)

60-Nd-140

MAT 6019

60-Nd-140

Radionuclide Production Cross Section
(n,2p)



58-Ce-139g
58-Ce-139m2

145

Incident Energy (MeV)

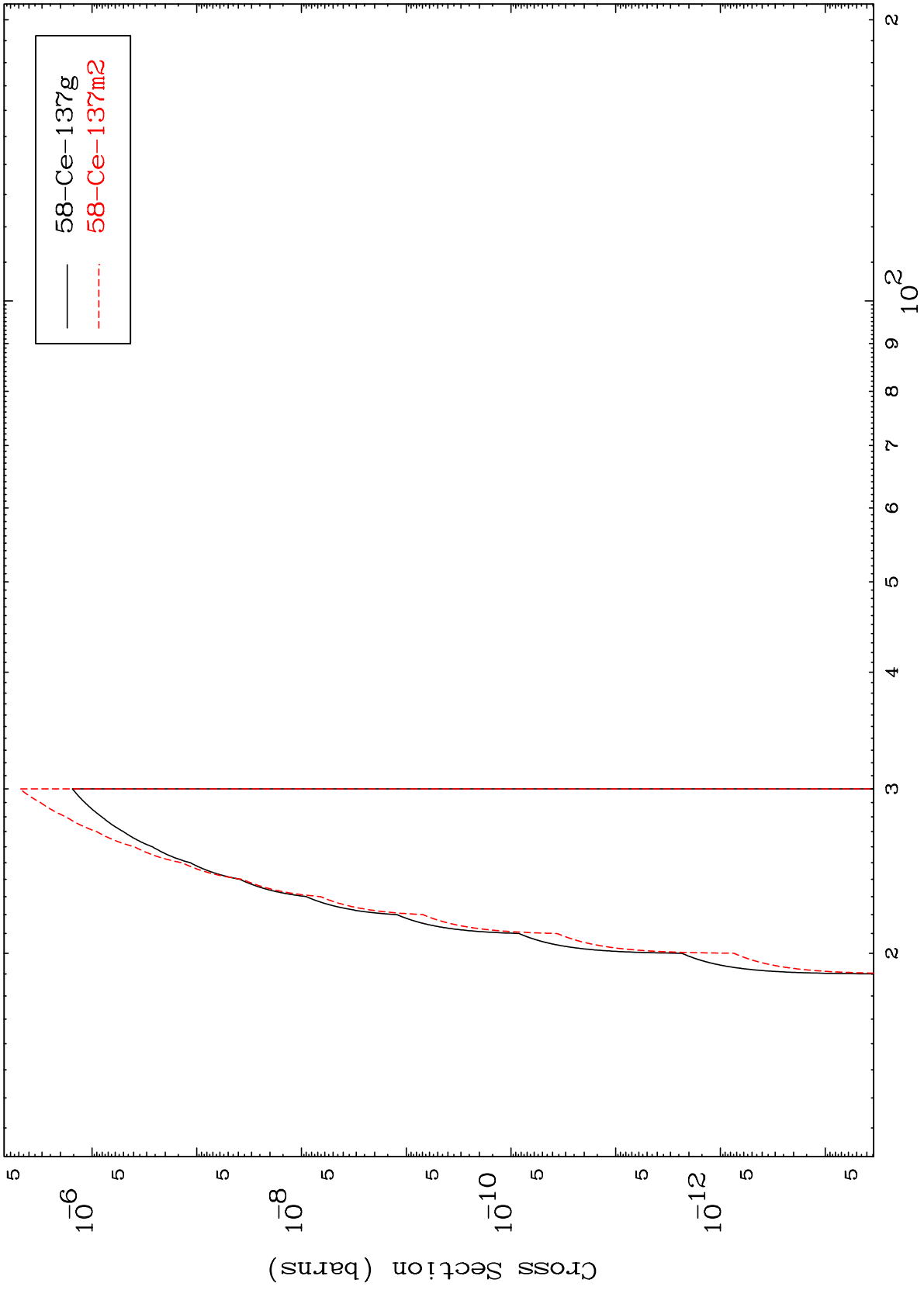
60-Nd-140

MAT 6019

(n,p) t

60-Nd-140

Radionuclide Production Cross Section



146

Incident Energy (MeV)

60-Nd-140