

Program EVALPLOT
(Version 2018-1)

by

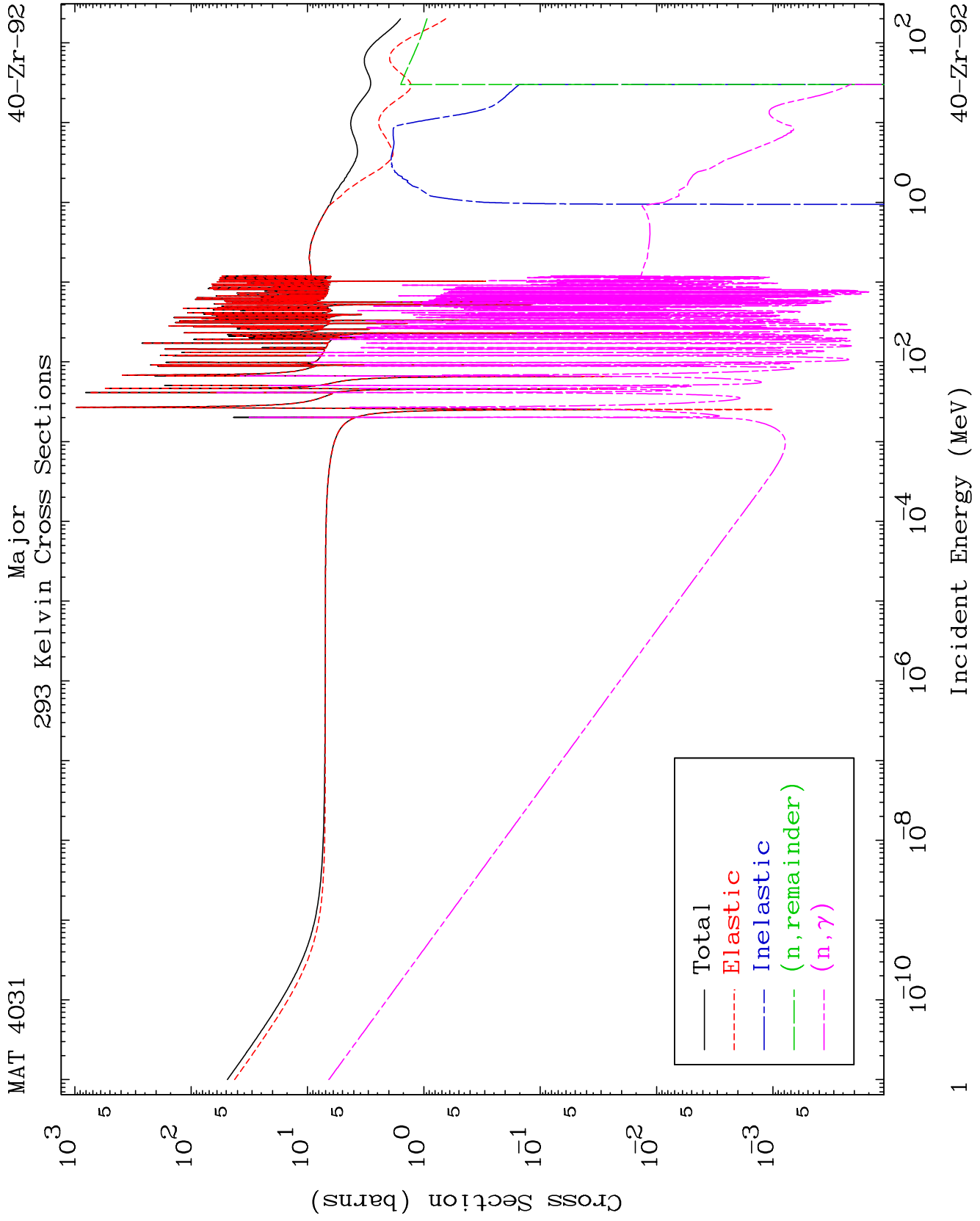
Dermott E. Cullen
(Present Contact Information)

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E.Mail:redcullen1@comcast.net
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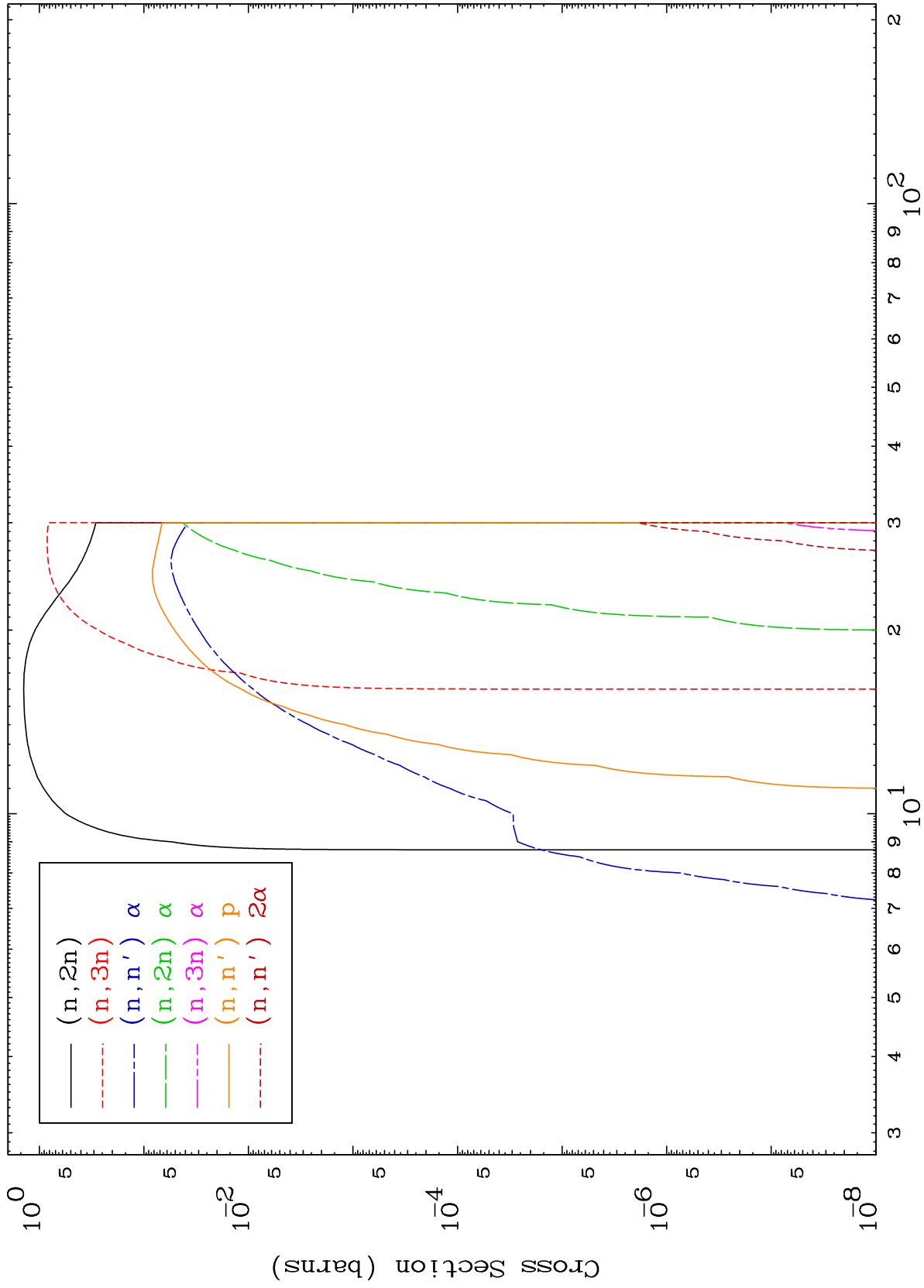
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MAT 4031

Neutron Production 293 Kelvin Cross Sections

40-Zr-92



2

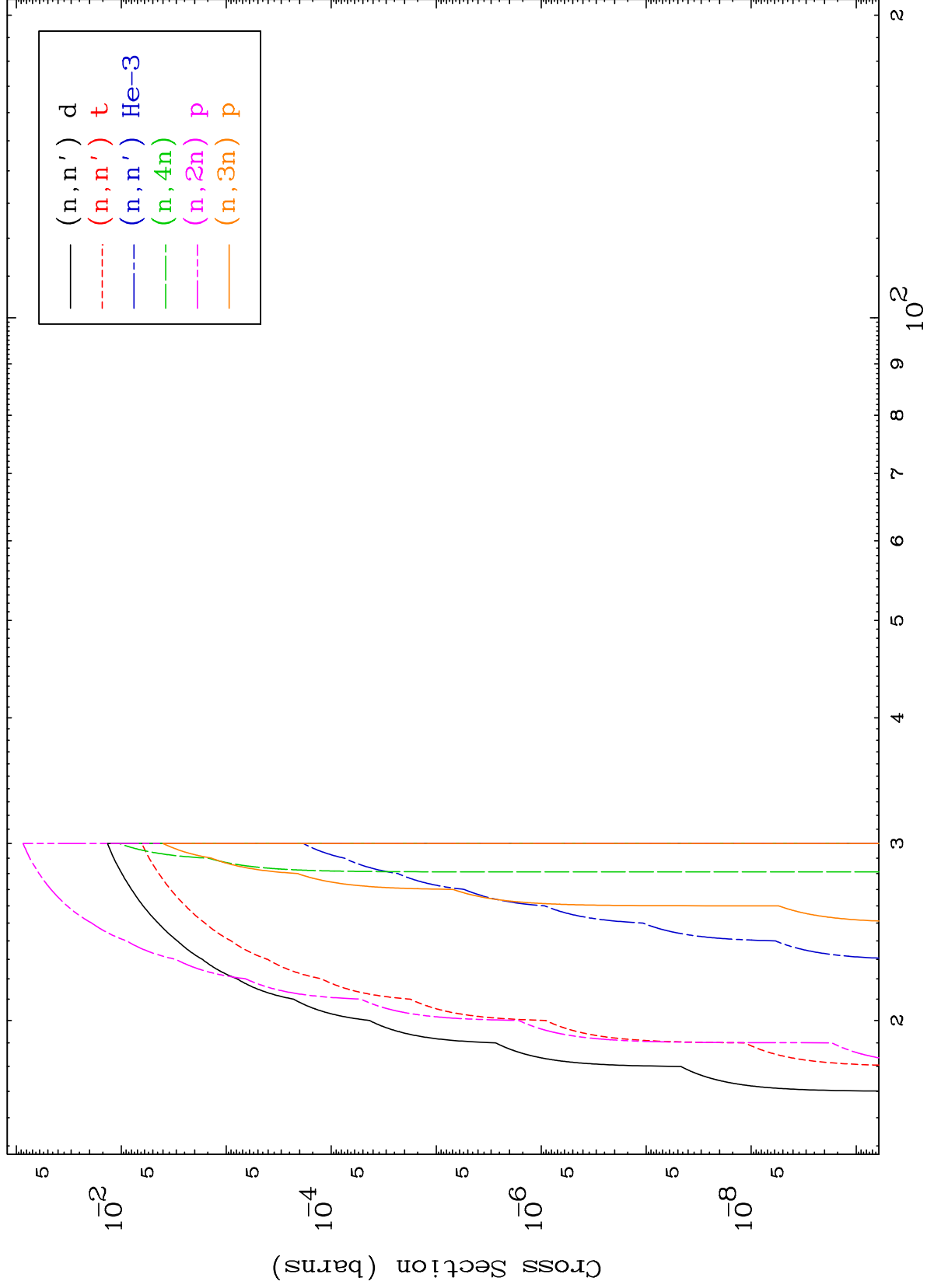
Incident Energy (MeV)

40-Zr-92

MAT 4031

Neutron Production
293 Kelvin Cross Sections

40-Zr-92



3

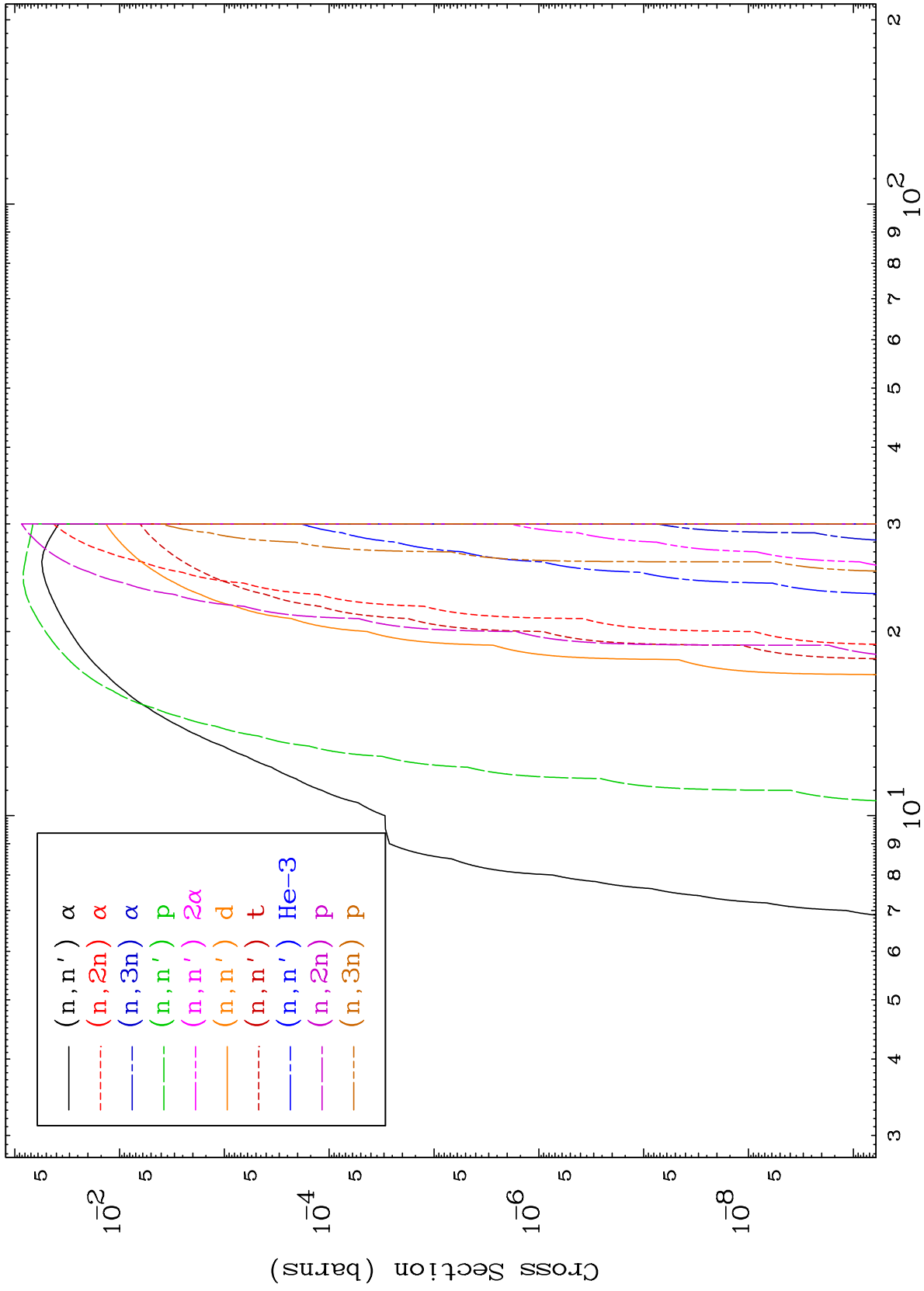
Incident Energy (MeV)

40-Zr-92

MAT 4031

Charged Particle
293 Kelvin Cross Sections

40-Zr-92



4

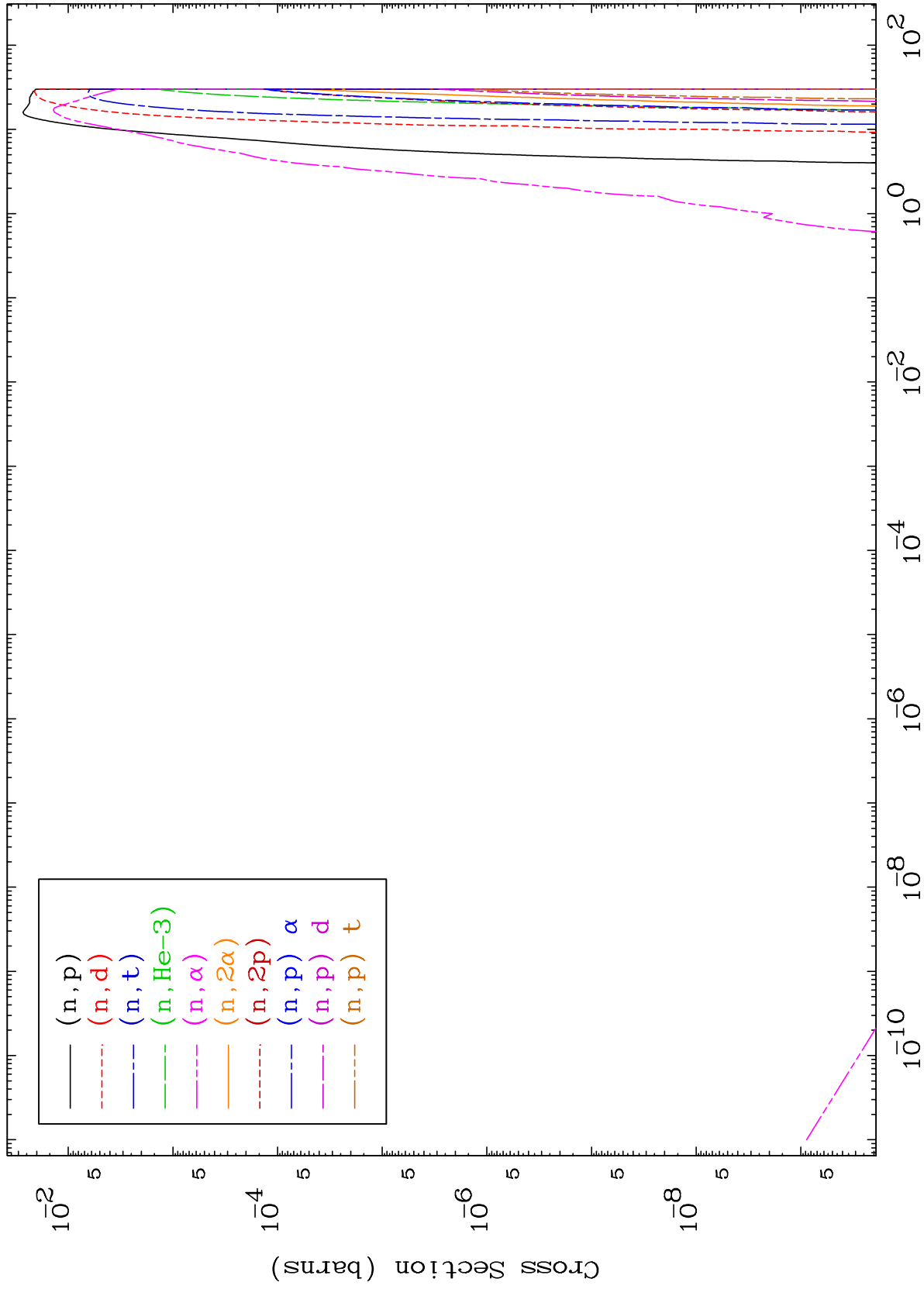
Incident Energy (MeV)

40-Zr-92

MAT 4031

Charged Particle
293 Kelvin Cross Sections

40-Zr-92



5

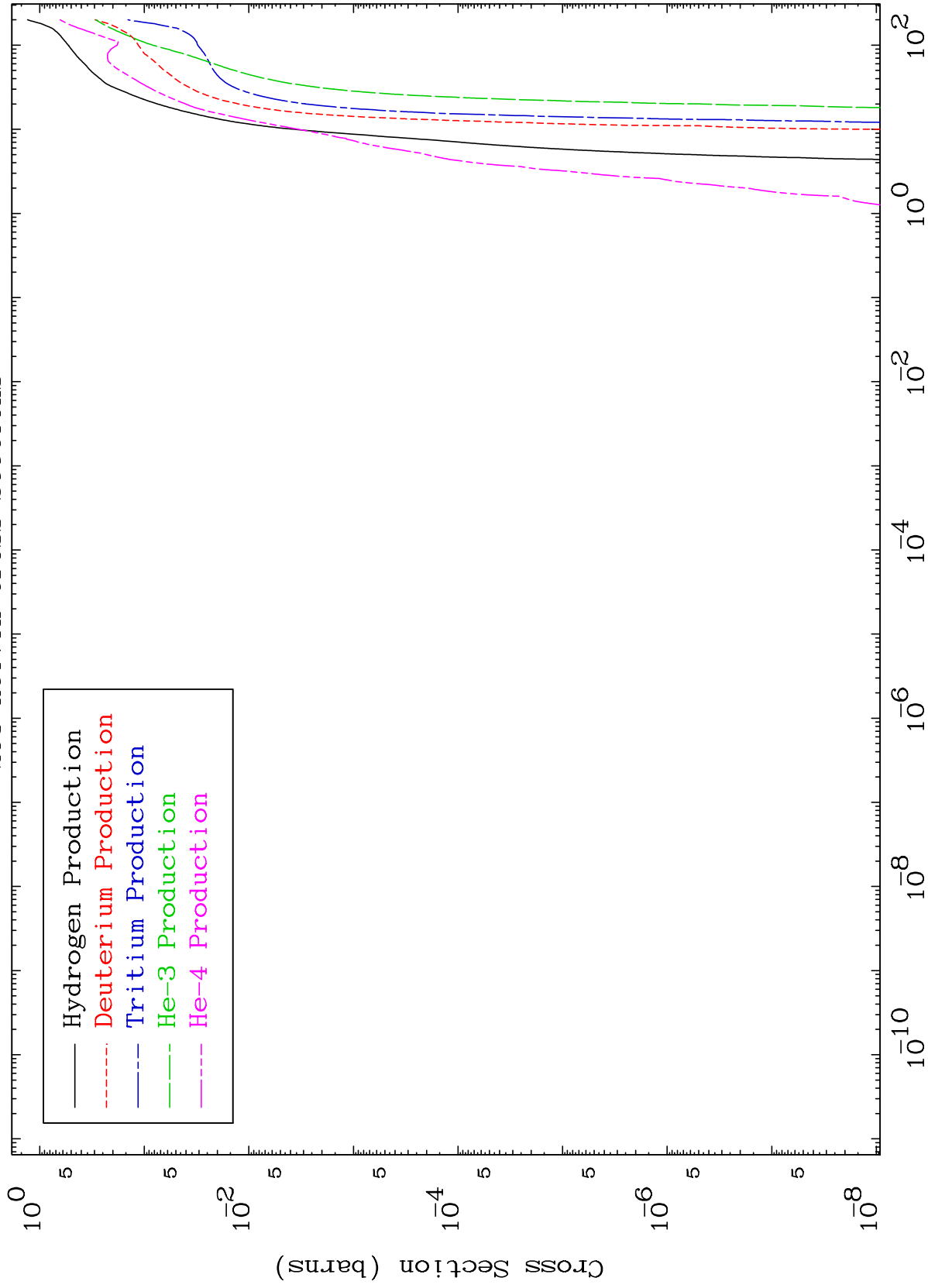
Incident Energy (MeV)

40-Zr-92

MAT 4031

Particle Production
293 Kelvin Cross Sections

40-Zr-92



6

Incident Energy (MeV)

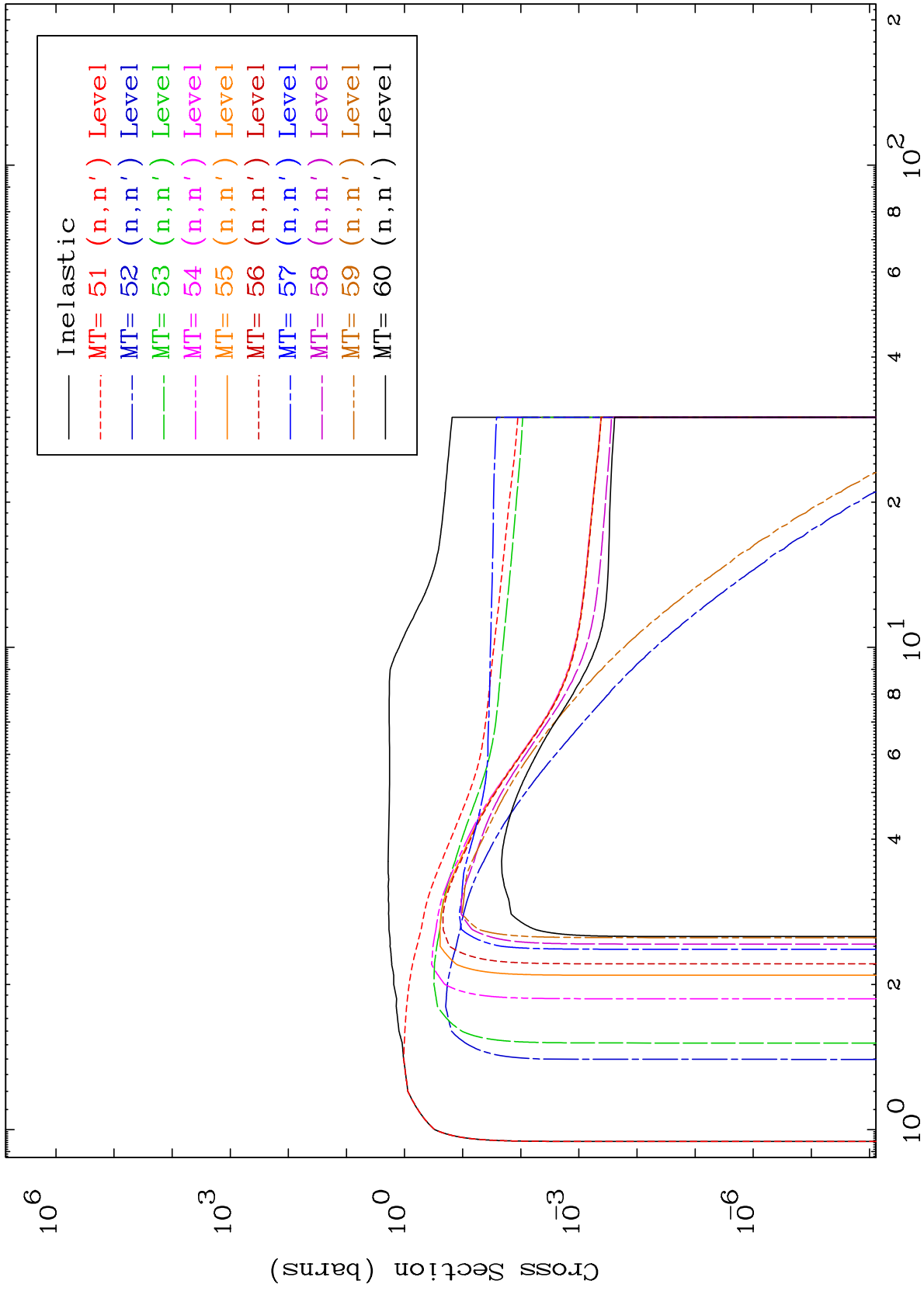
40-Zr-92

MAT 4031

(n,n') Level

40-Zr-92

293 Kelvin Cross Sections



7

Incident Energy (MeV)

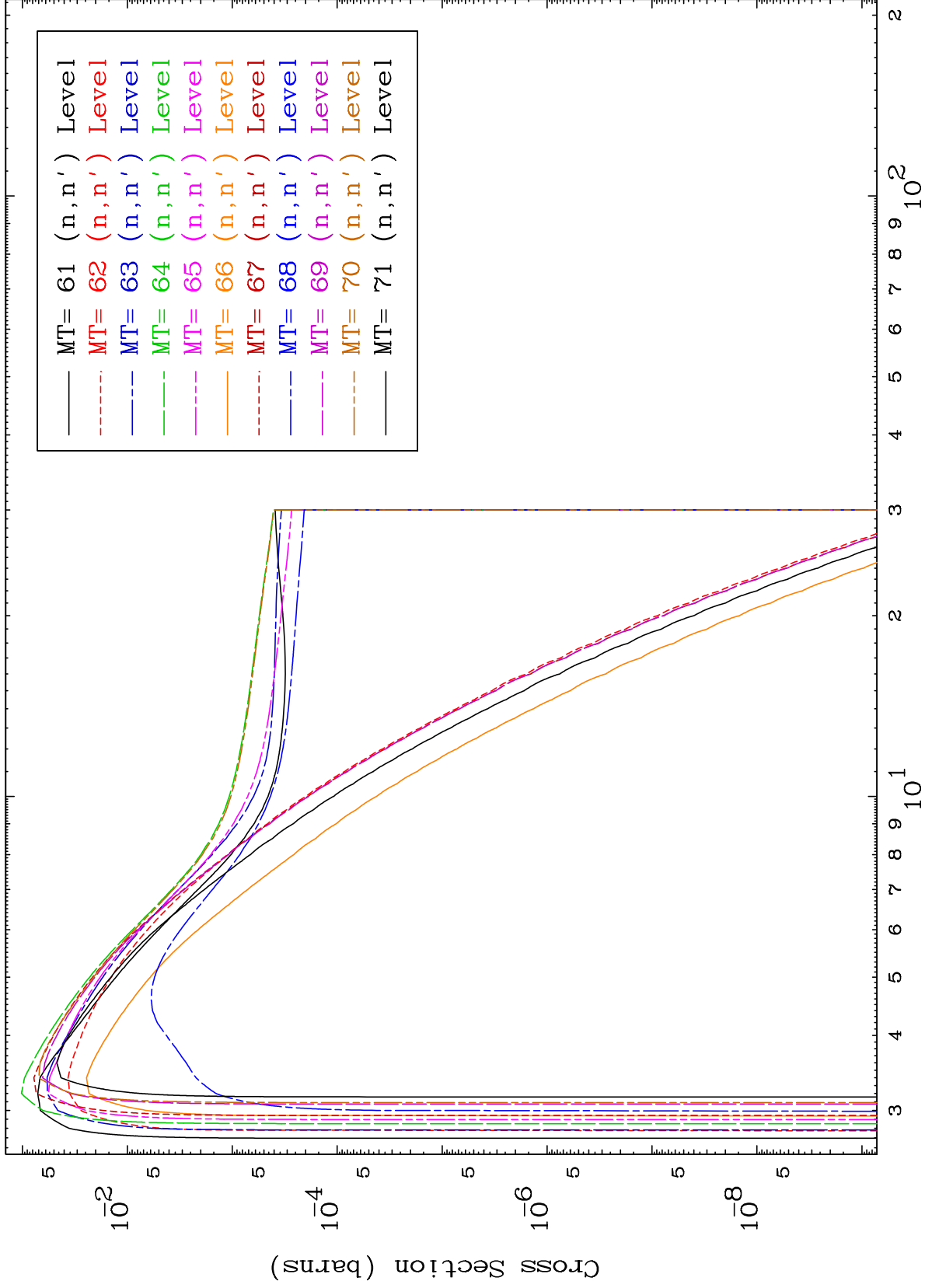
40-Zr-92

MAT 4031

(n,n') Level

40-Zr-92

293 Kelvin Cross Sections



8

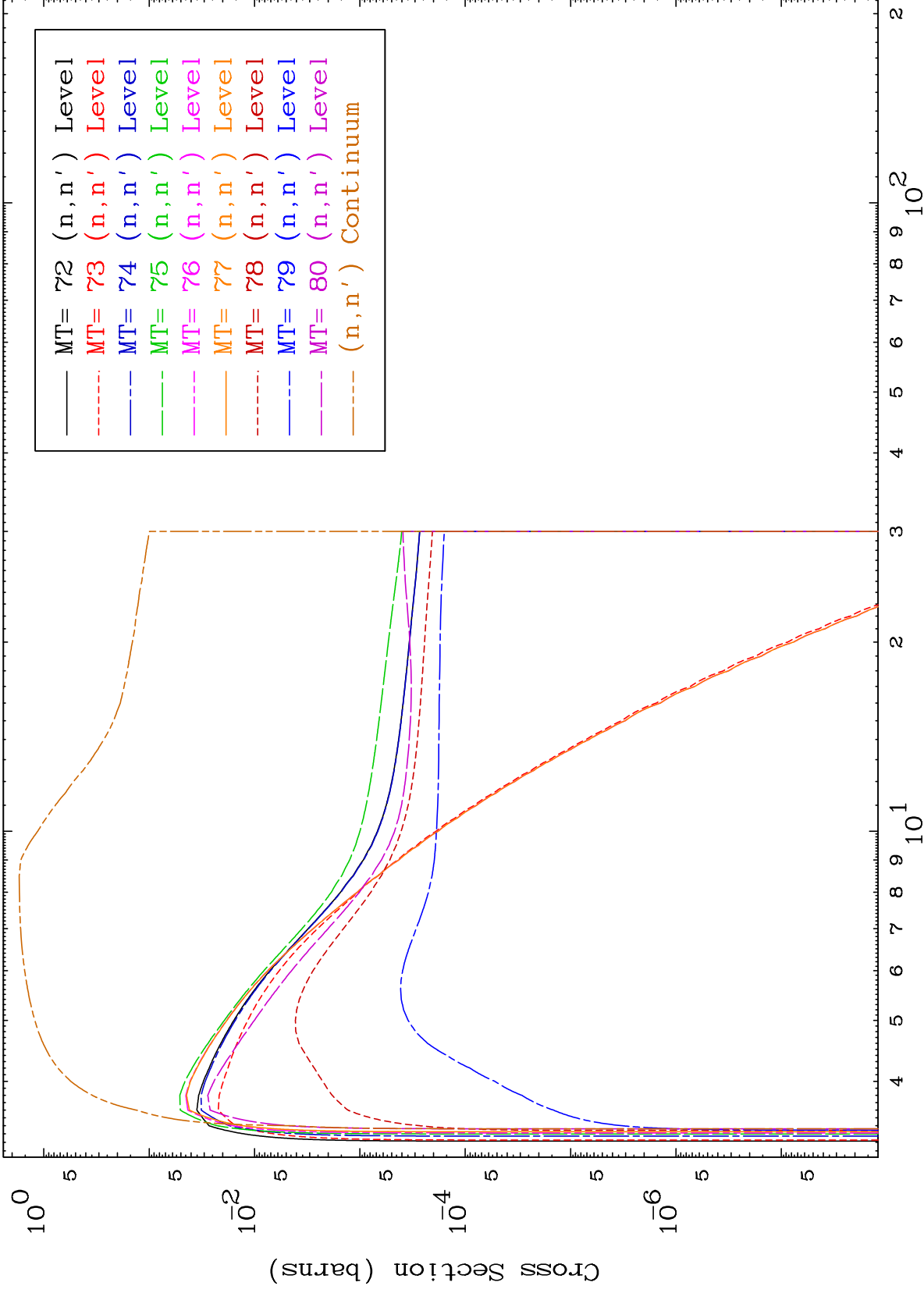
Incident Energy (MeV)

40-Zr-92

MAT 4031

(n,n') Level
293 Kelvin Cross Sections

40-Zr-92



9

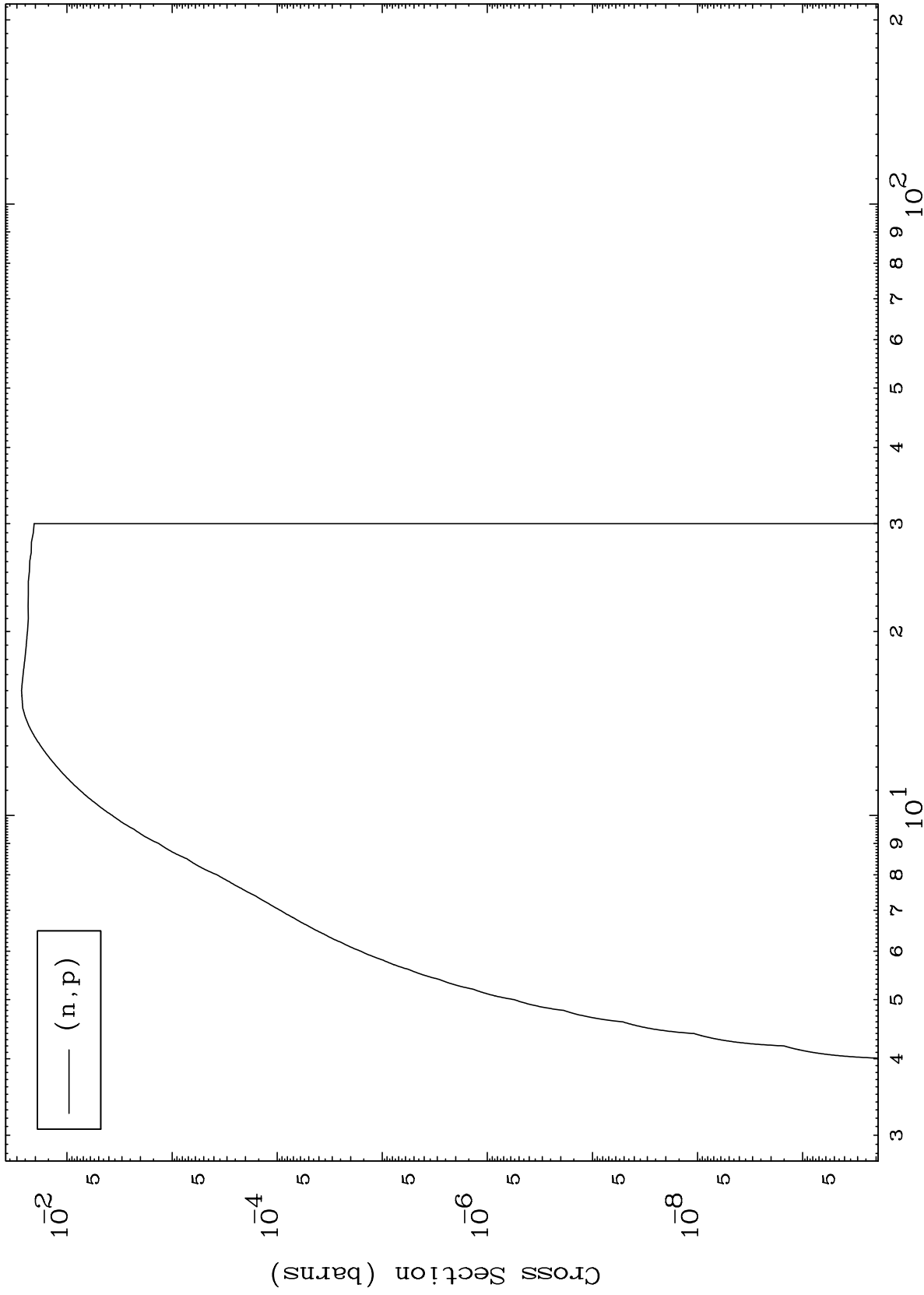
Incident Energy (MeV)

40-Zr-92

MAT 4031

(n,p) Levels
293 Kelvin Cross Sections

40-Zr-92



10

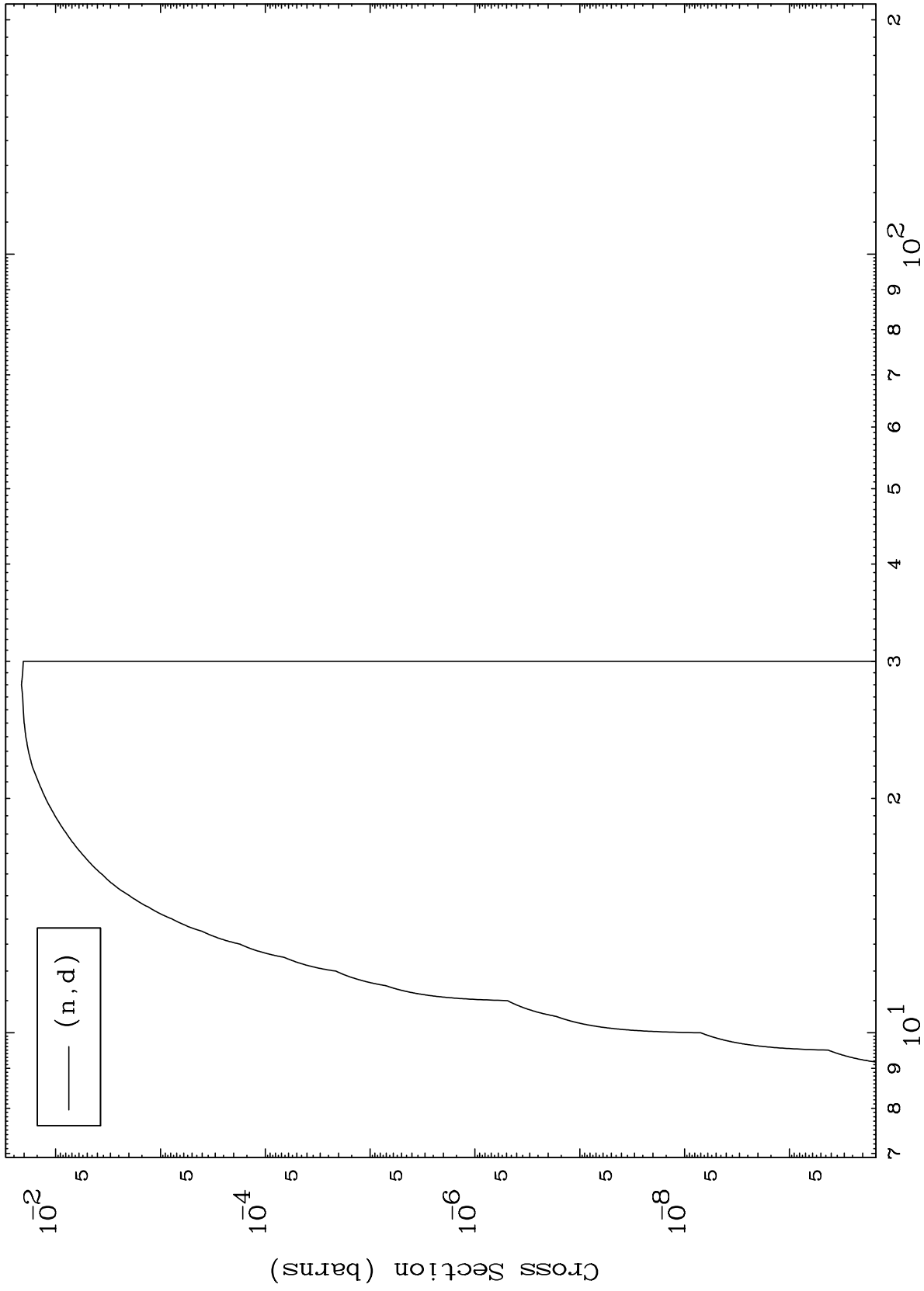
Incident Energy (MeV)

40-Zr-92

MAT 4031

(n,d) Levels
293 Kelvin Cross Sections

40-Zr-92



11

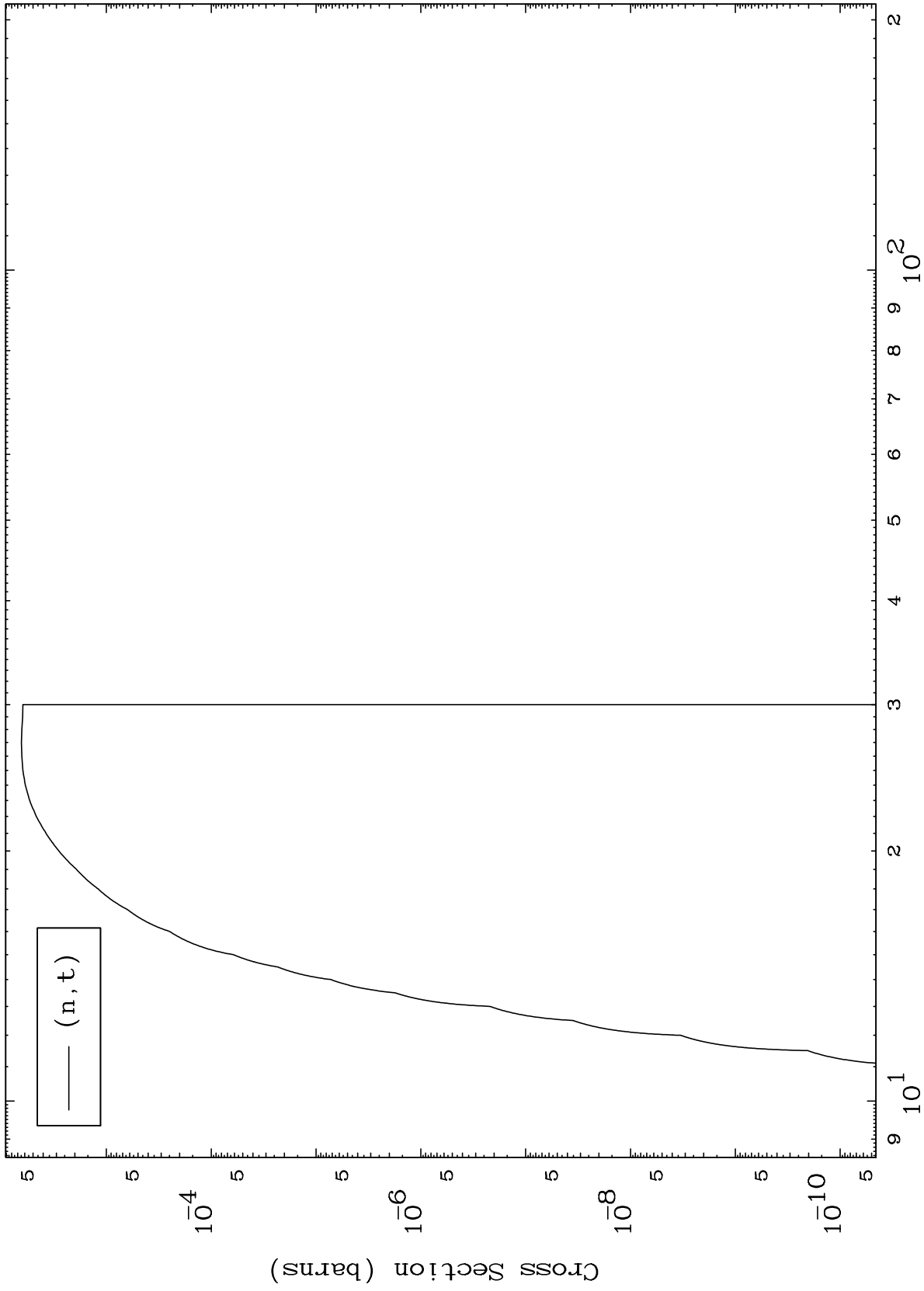
Incident Energy (MeV)

40-Zr-92

MAT 4031

(n,t) Levels
293 Kelvin Cross Sections

40-Zr-92



12

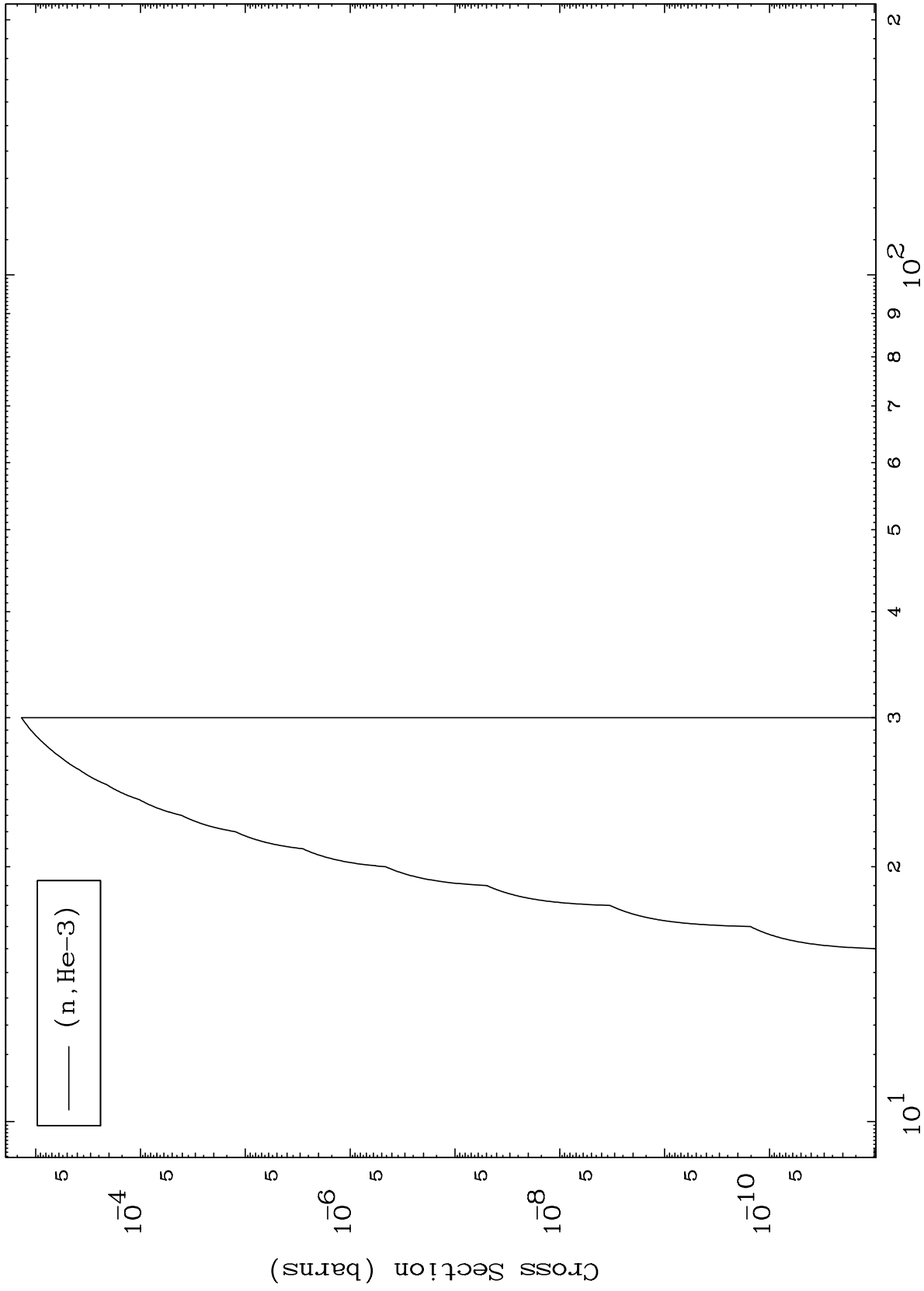
Incident Energy (MeV)

40-Zr-92

MAT 4031

(n,He3) Levels
293 Kelvin Cross Sections

40-Zr-92



13

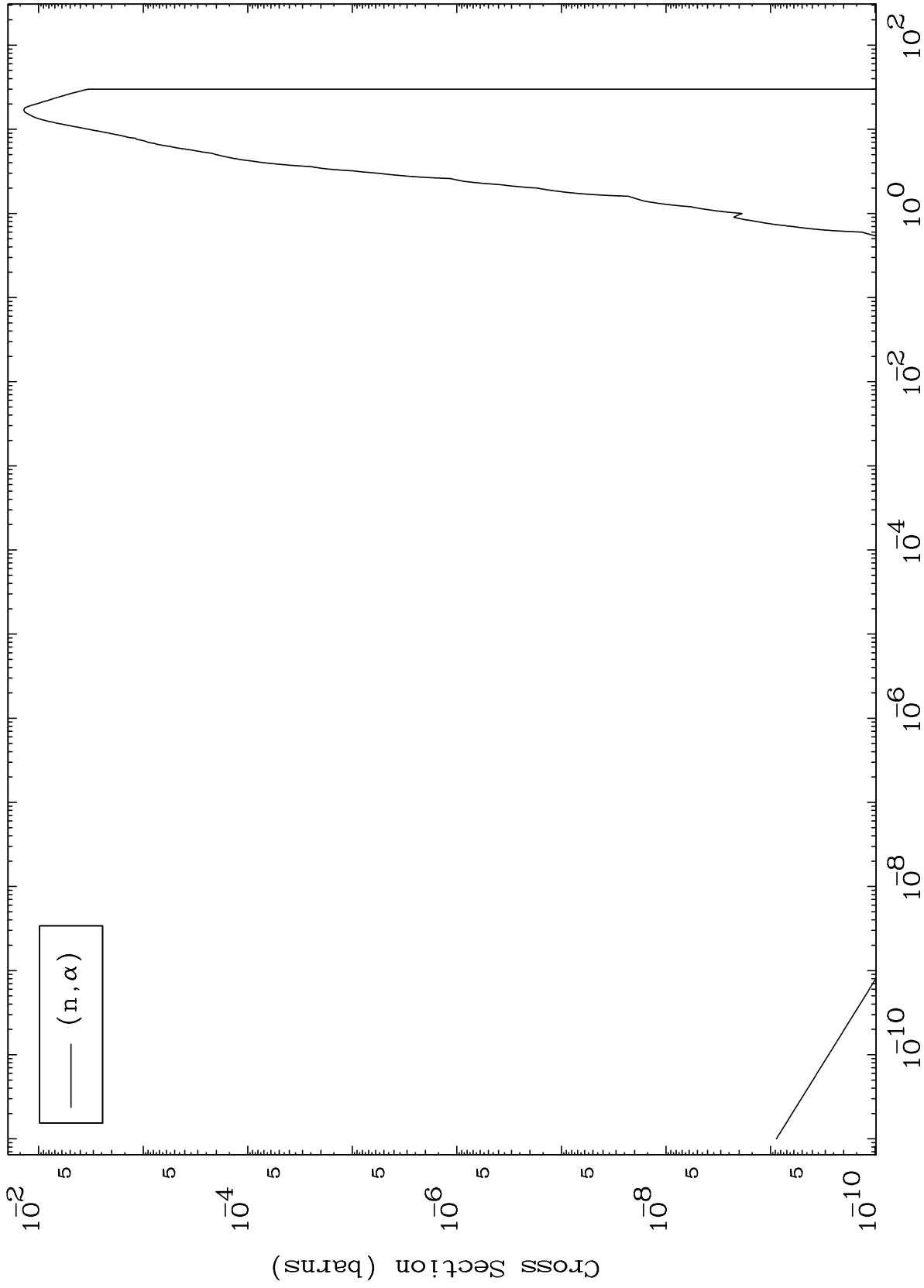
Incident Energy (MeV)

40-Zr-92

MAT 4031

(n,α) Levels
293 Kelvin Cross Sections

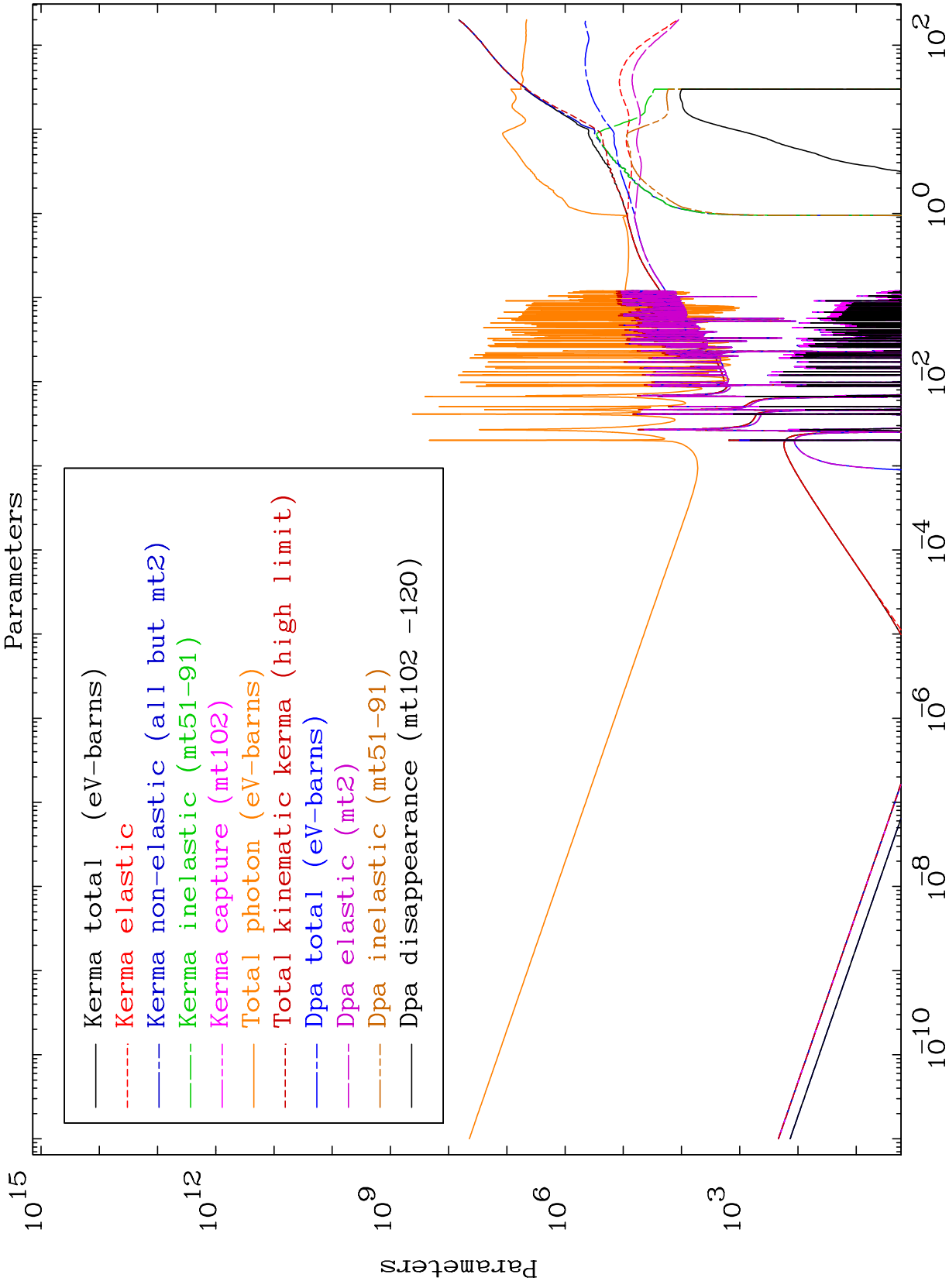
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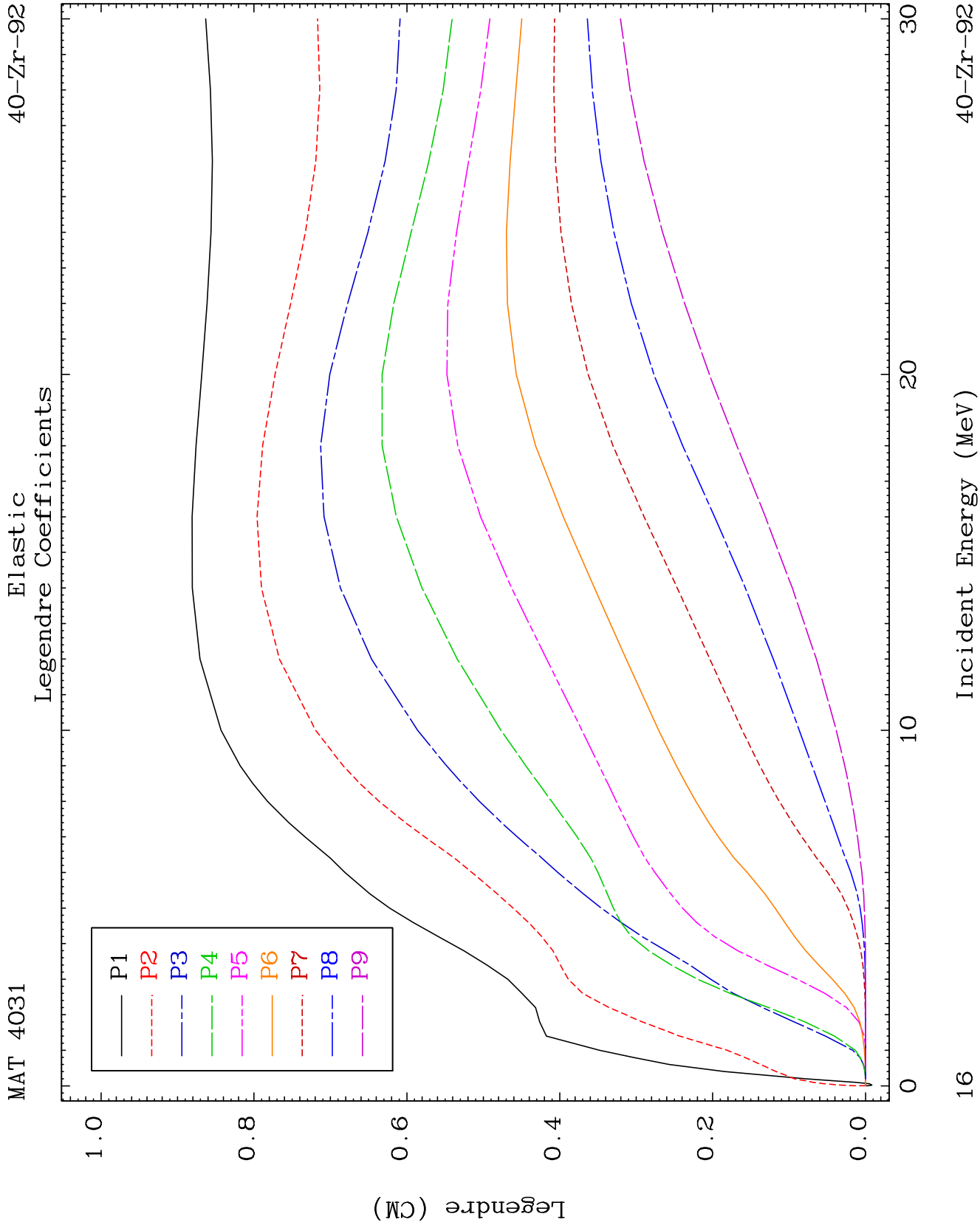


MAT 4031

Energy Release
Parameters

40-Zr-92

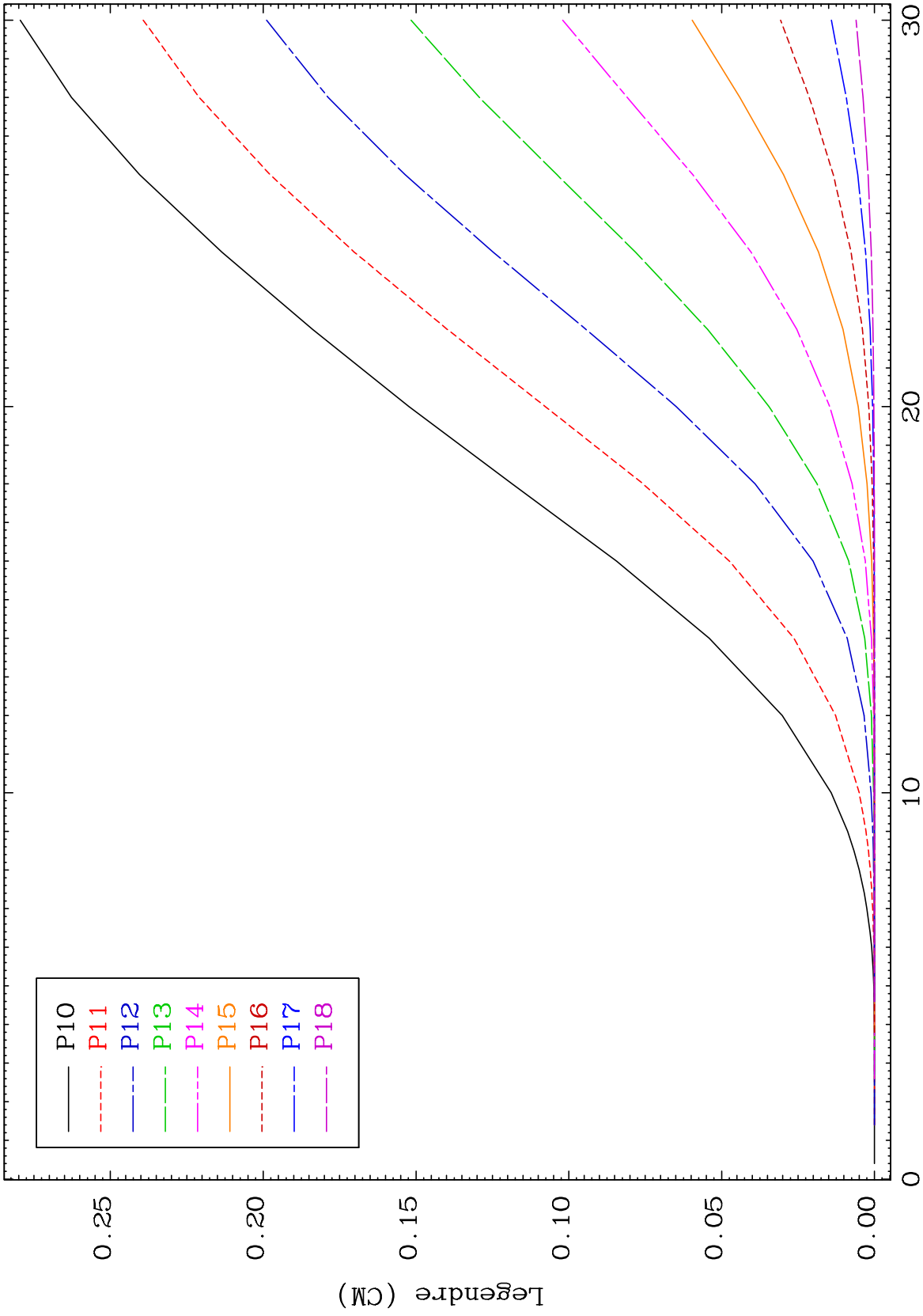




MAT 4031

Elastic Legendre Coefficients

40-Zr-92



17

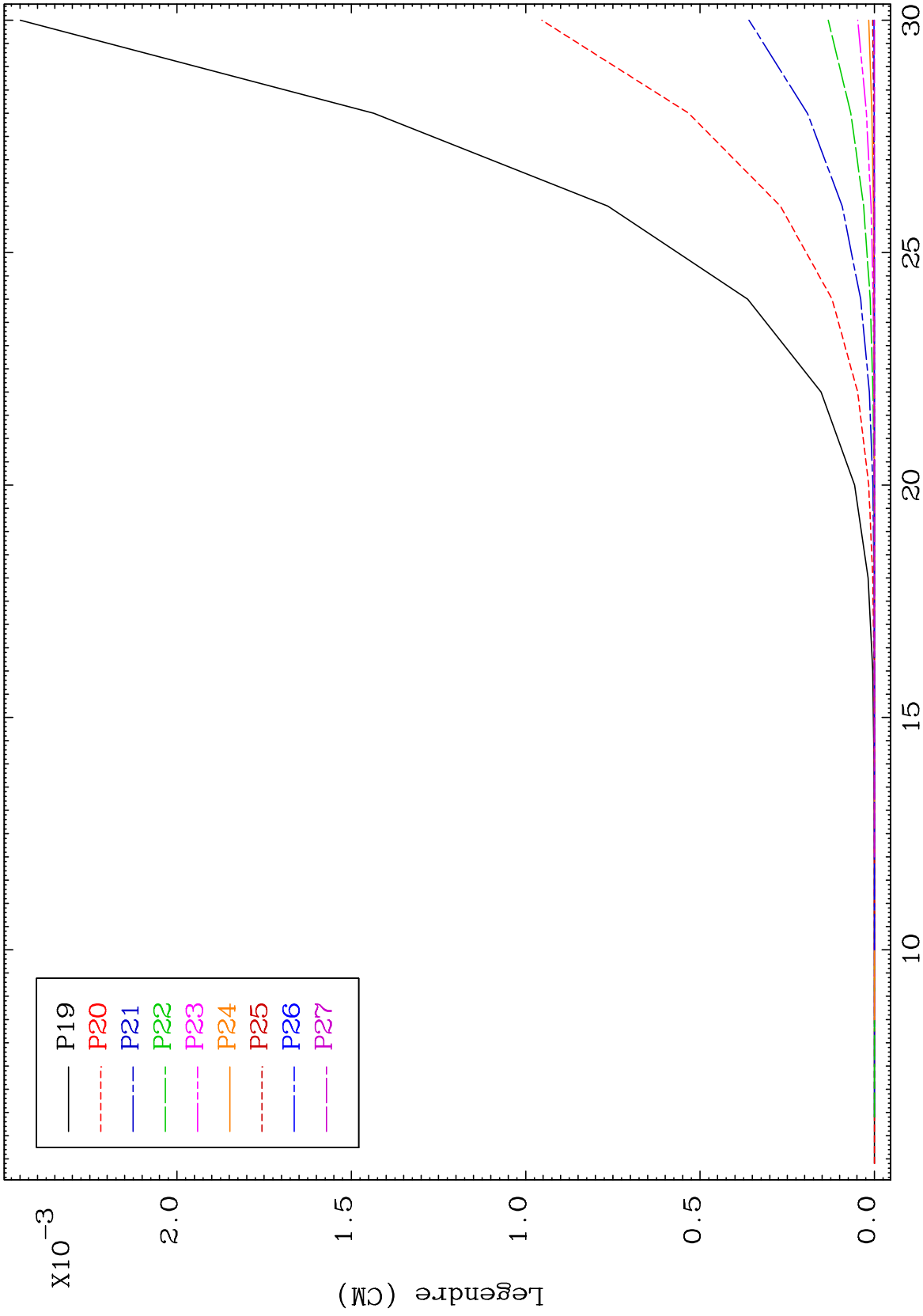
Incident Energy (MeV)

40-Zr-92

MAT 4031

Elastic Legendre Coefficients

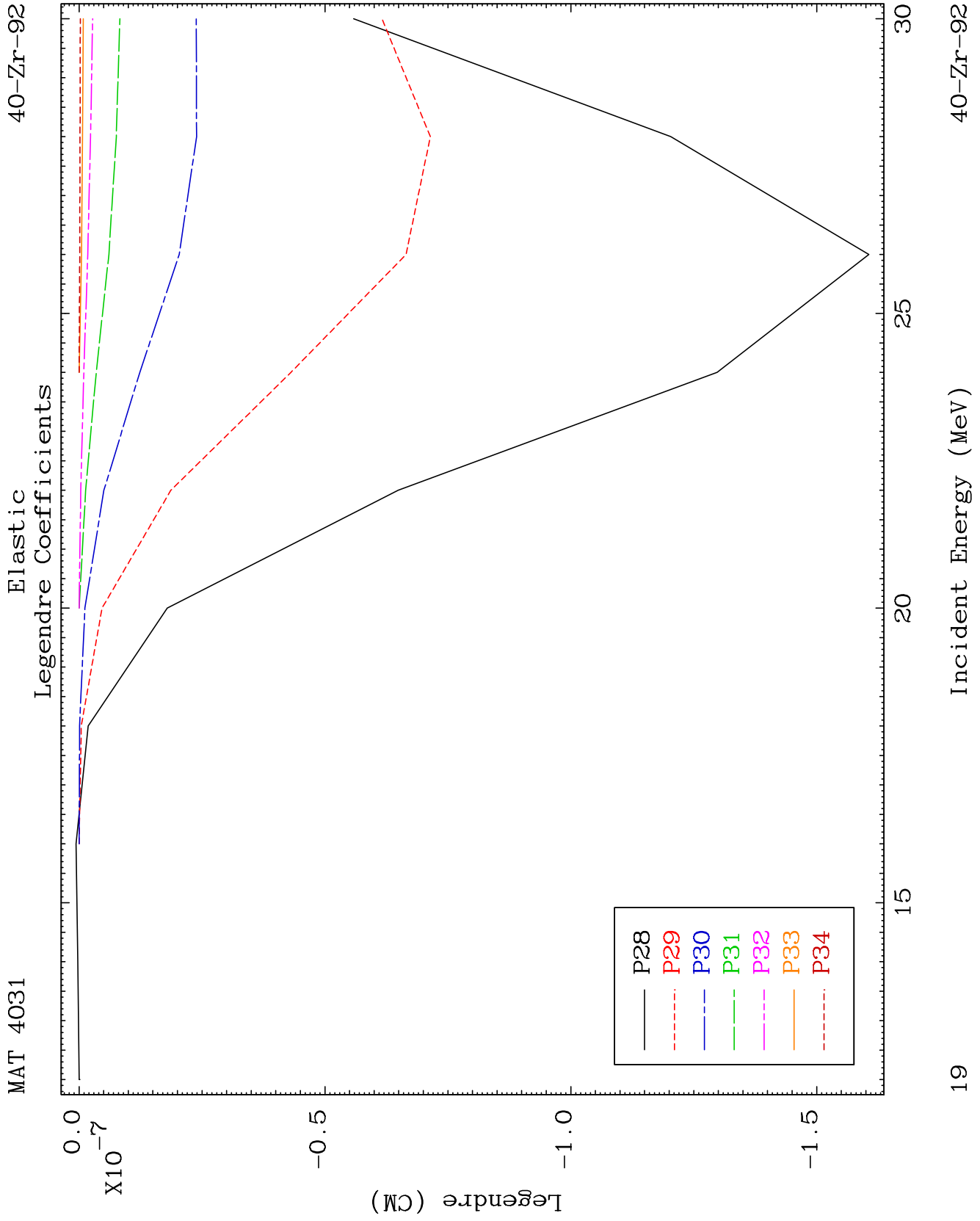
40-Zr-92



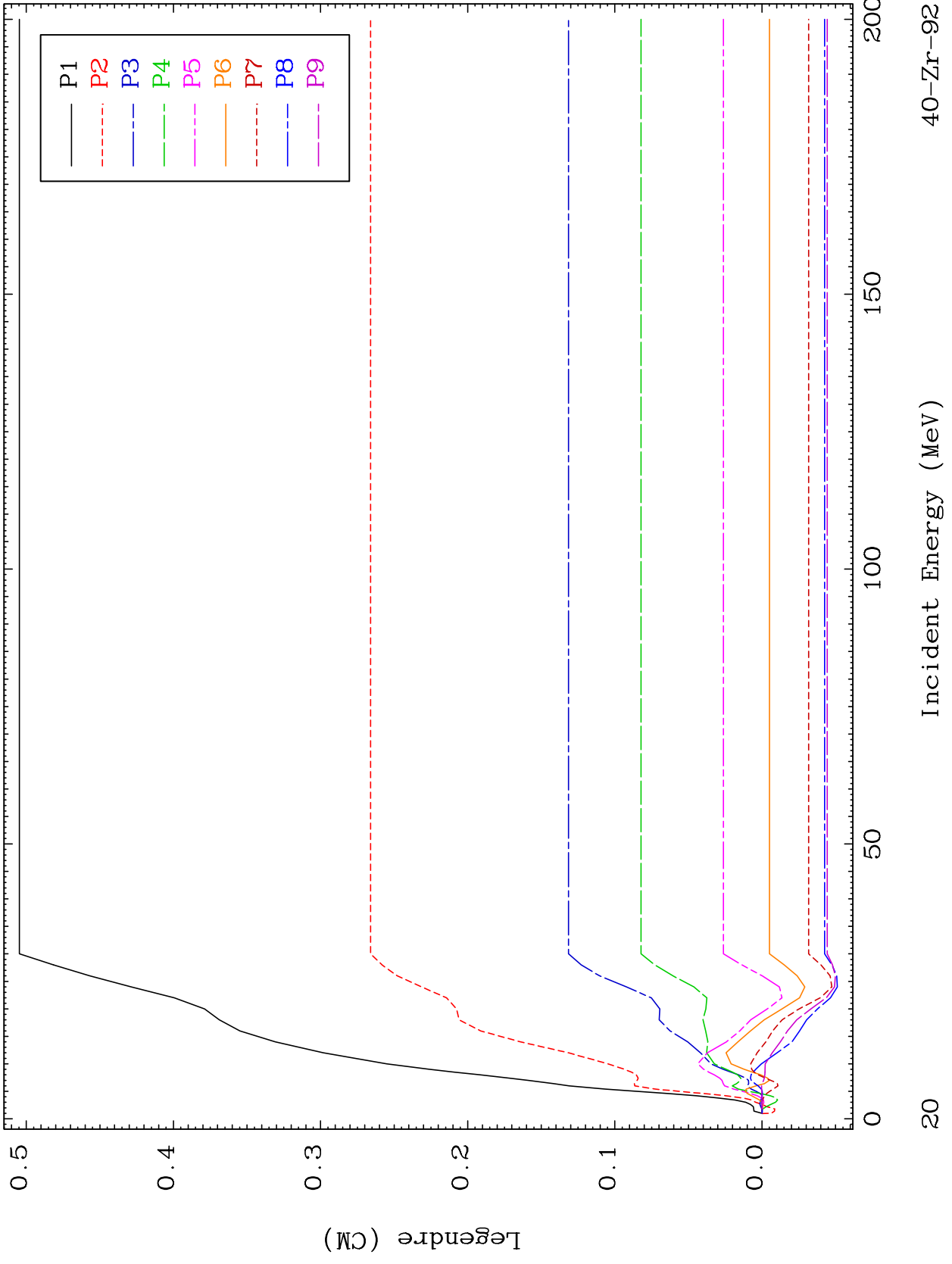
18

Incident Energy (MeV)

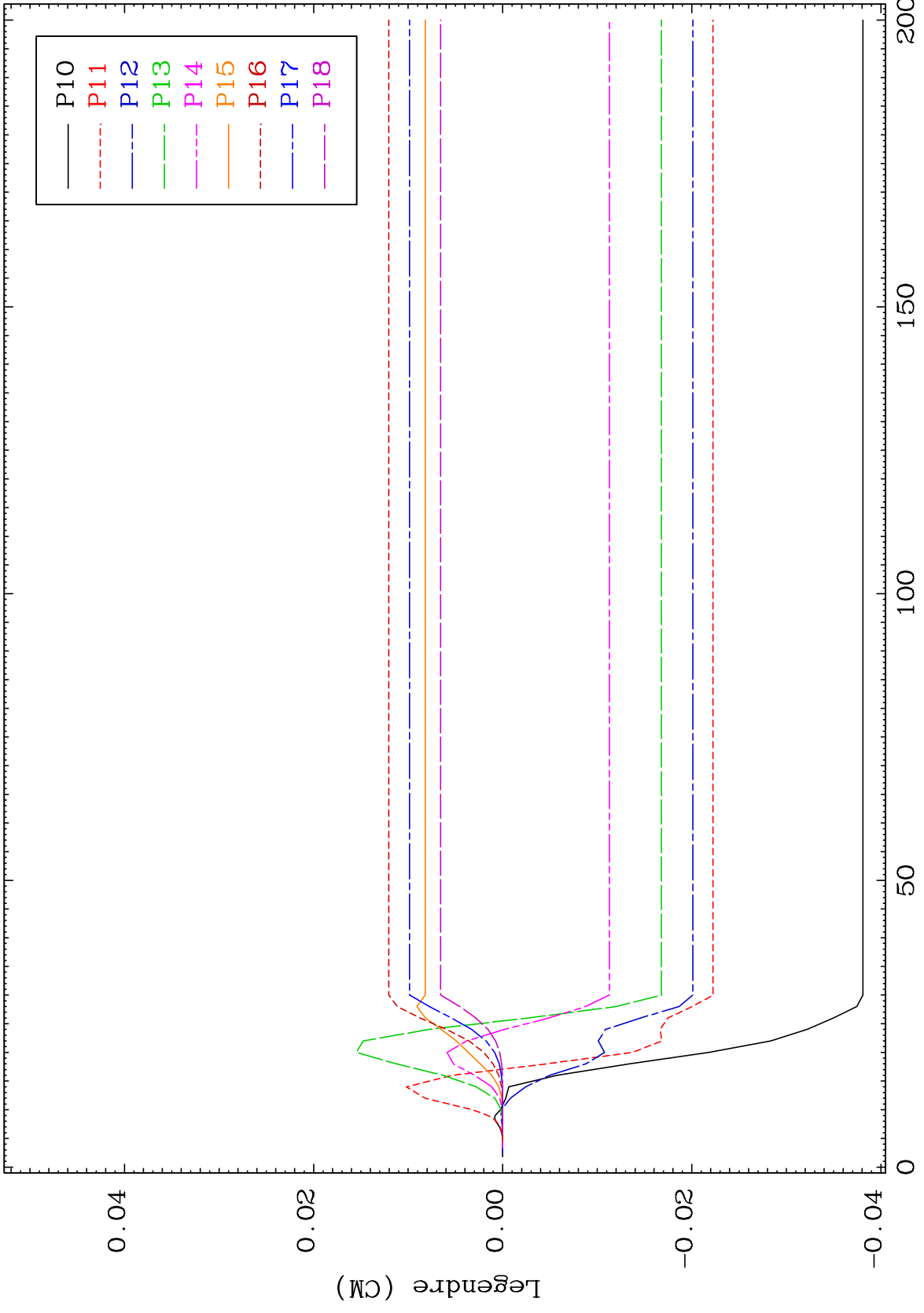
40-Zr-92



MAT 4031 MT= 51 (n,n') Level Legendre Coefficients 40-Zr-92

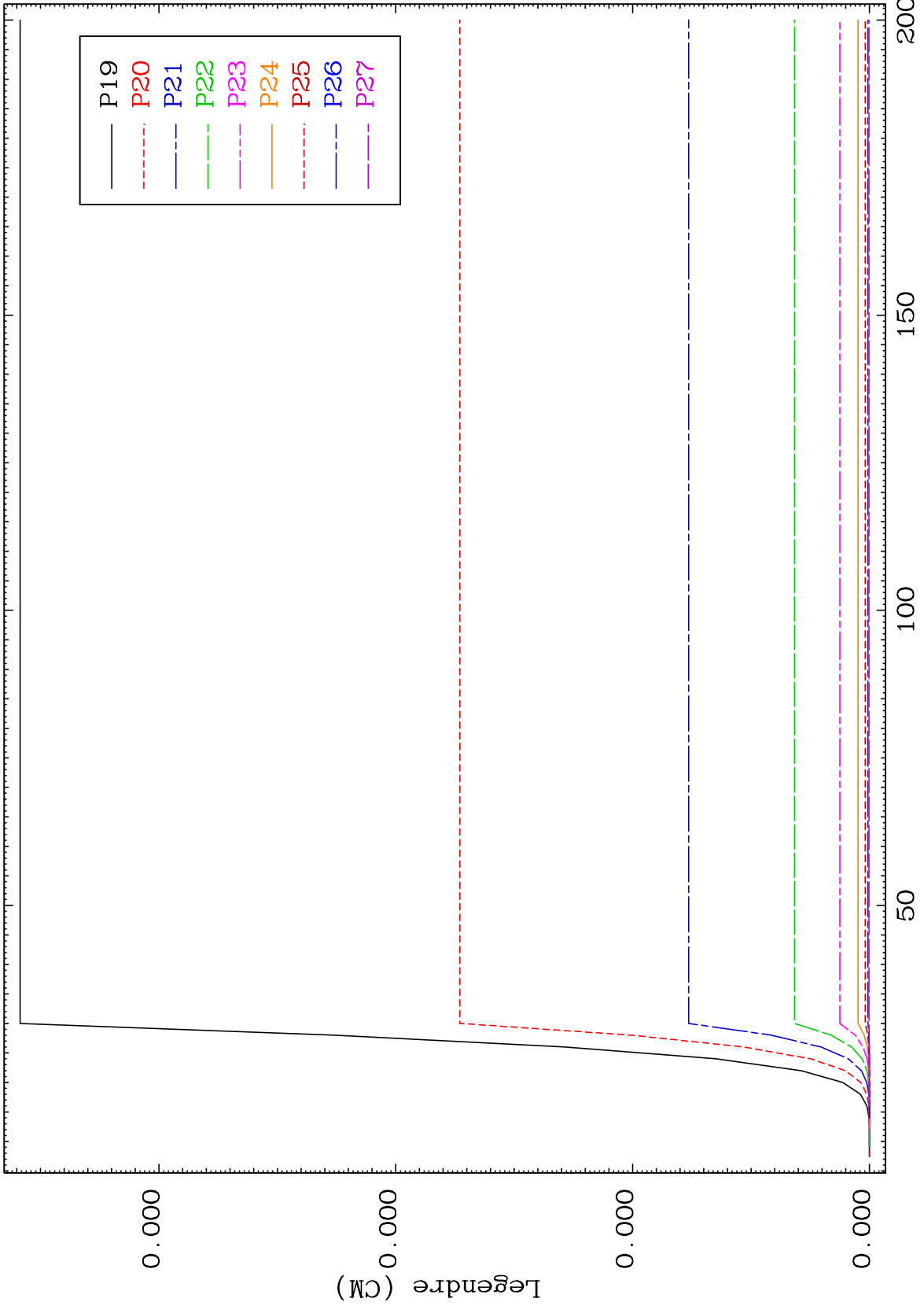


MAT 4031 MT= 51 (n,n') Level Legendre Coefficients 40-Zr-92



21 40-Zr-92

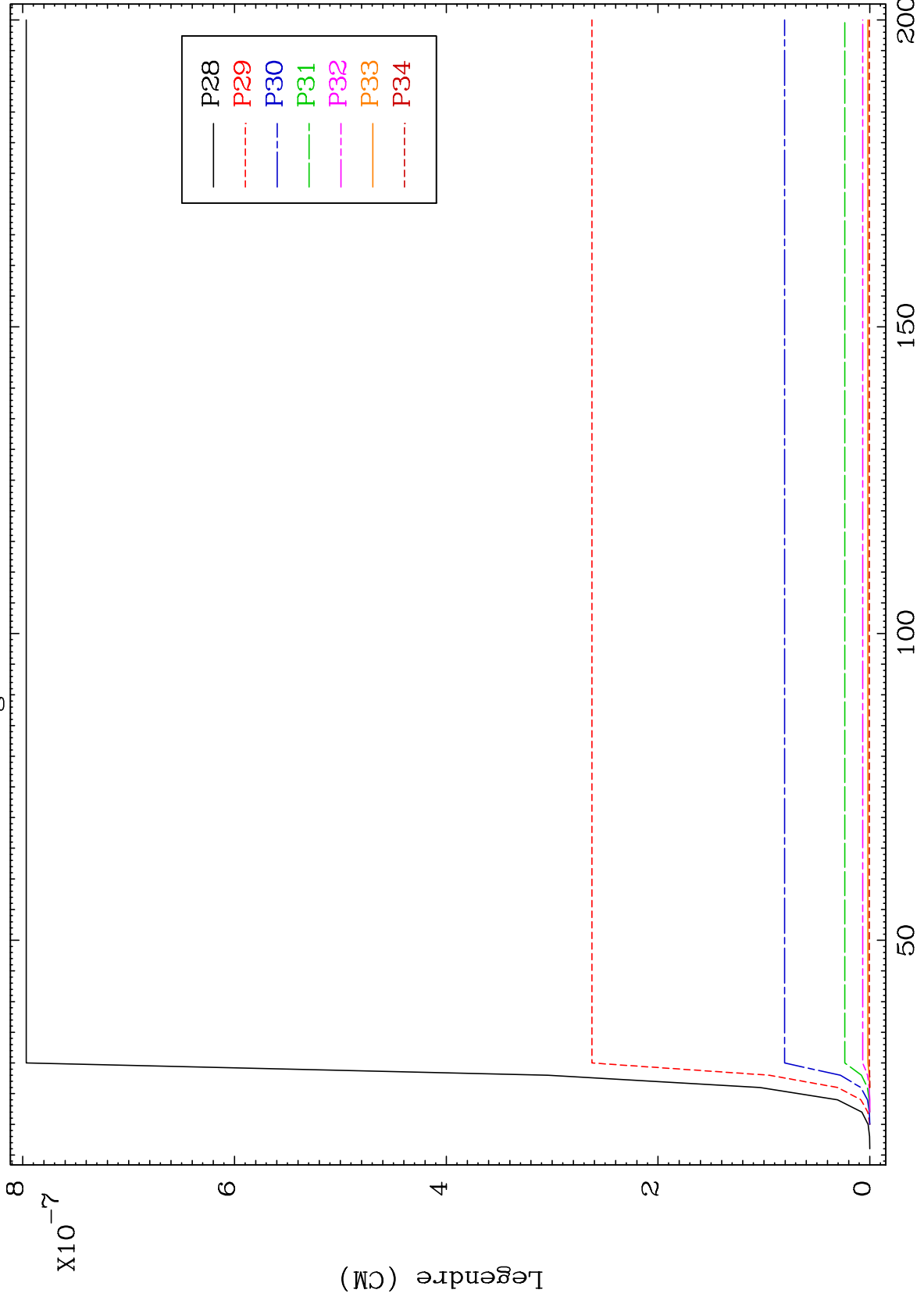
MAT 4031 MT= 51 (n,n') Level Legendre Coefficients 40-Zr-92



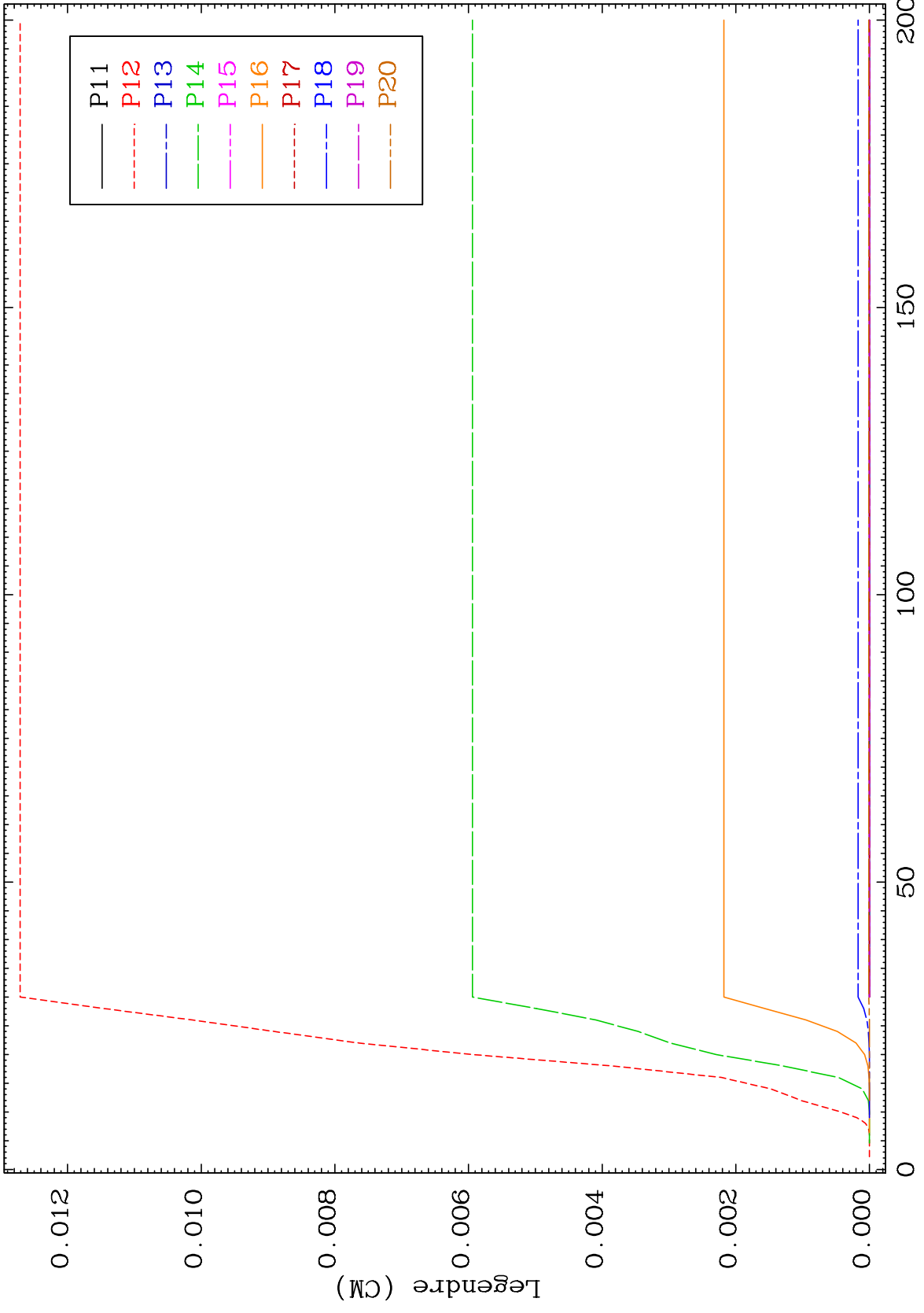
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40-Zr-92

MAT 4031 MT= 51 (n,n') Level Legendre Coefficients 40-Zr-92

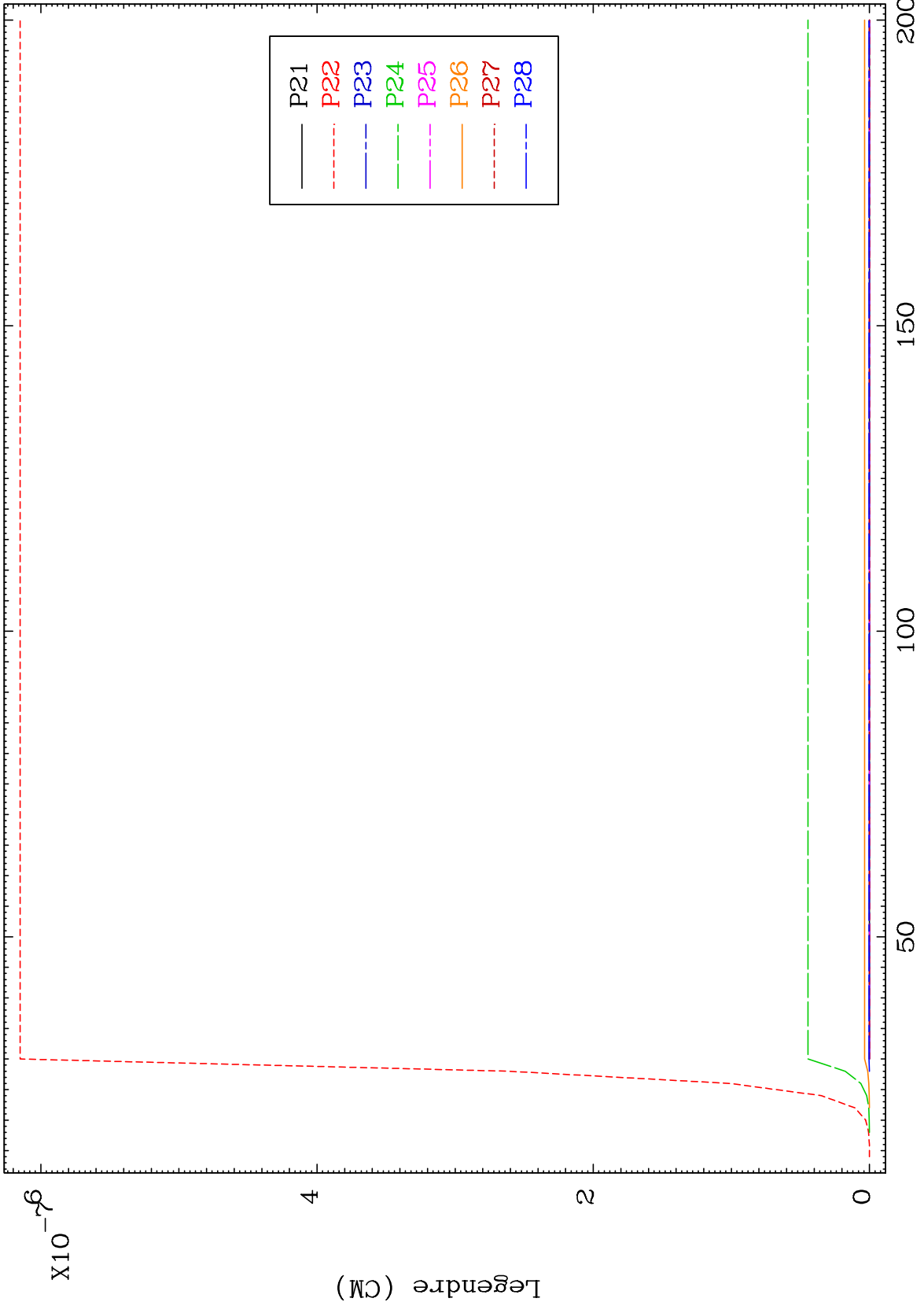


MAT 4031 MT= 52 (n,n') Level Legendre Coefficients 40-Zr-92



25 50 100 150 200 40-Zr-92

MAT 4031 MT= 52 (n,n') Level Legendre Coefficients 40-Zr-92

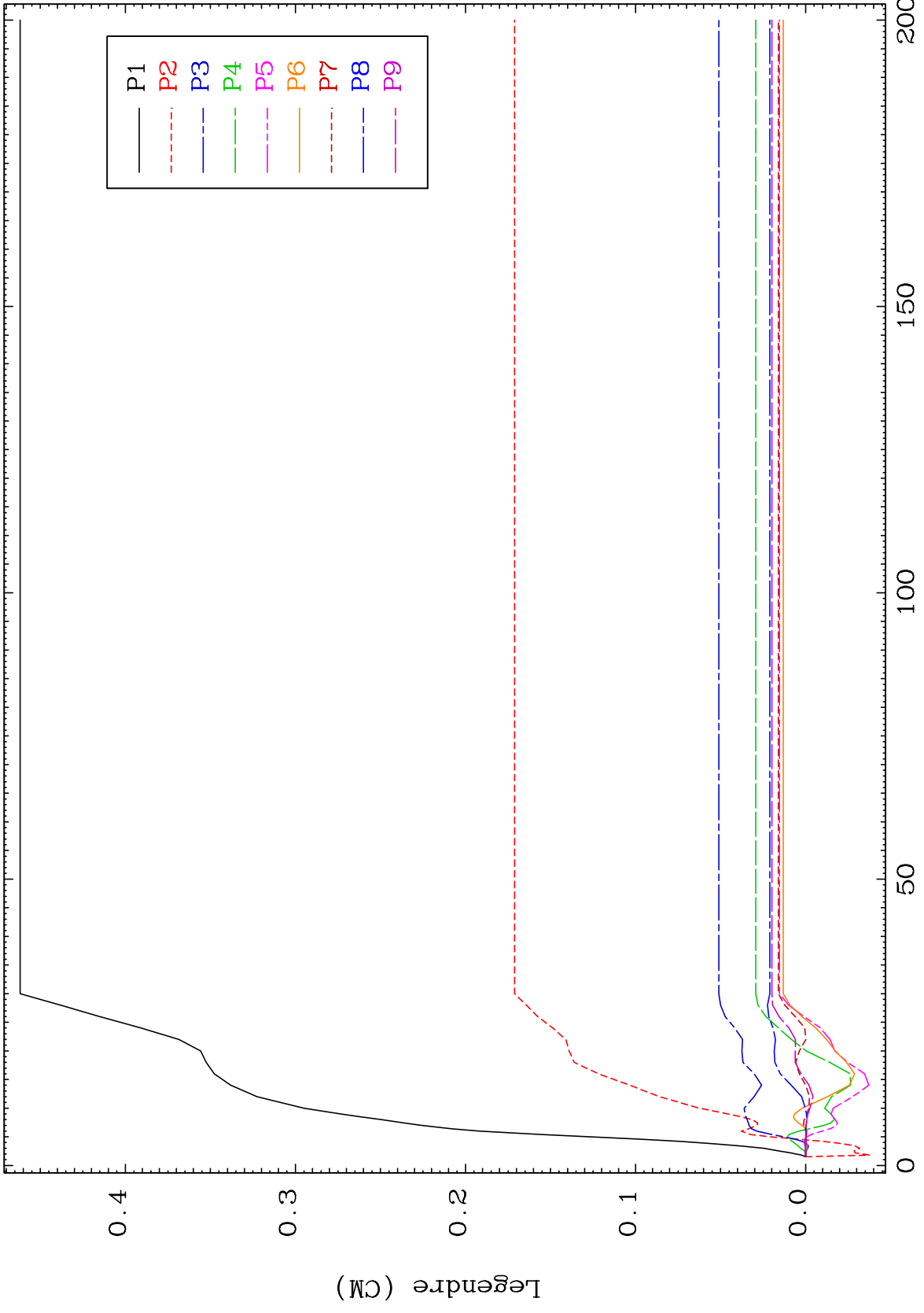


40-Zr-92

Incident Energy (MeV)

26

MAT 4031 MT= 53 (n,n') Level Legendre Coefficients 40-Zr-92

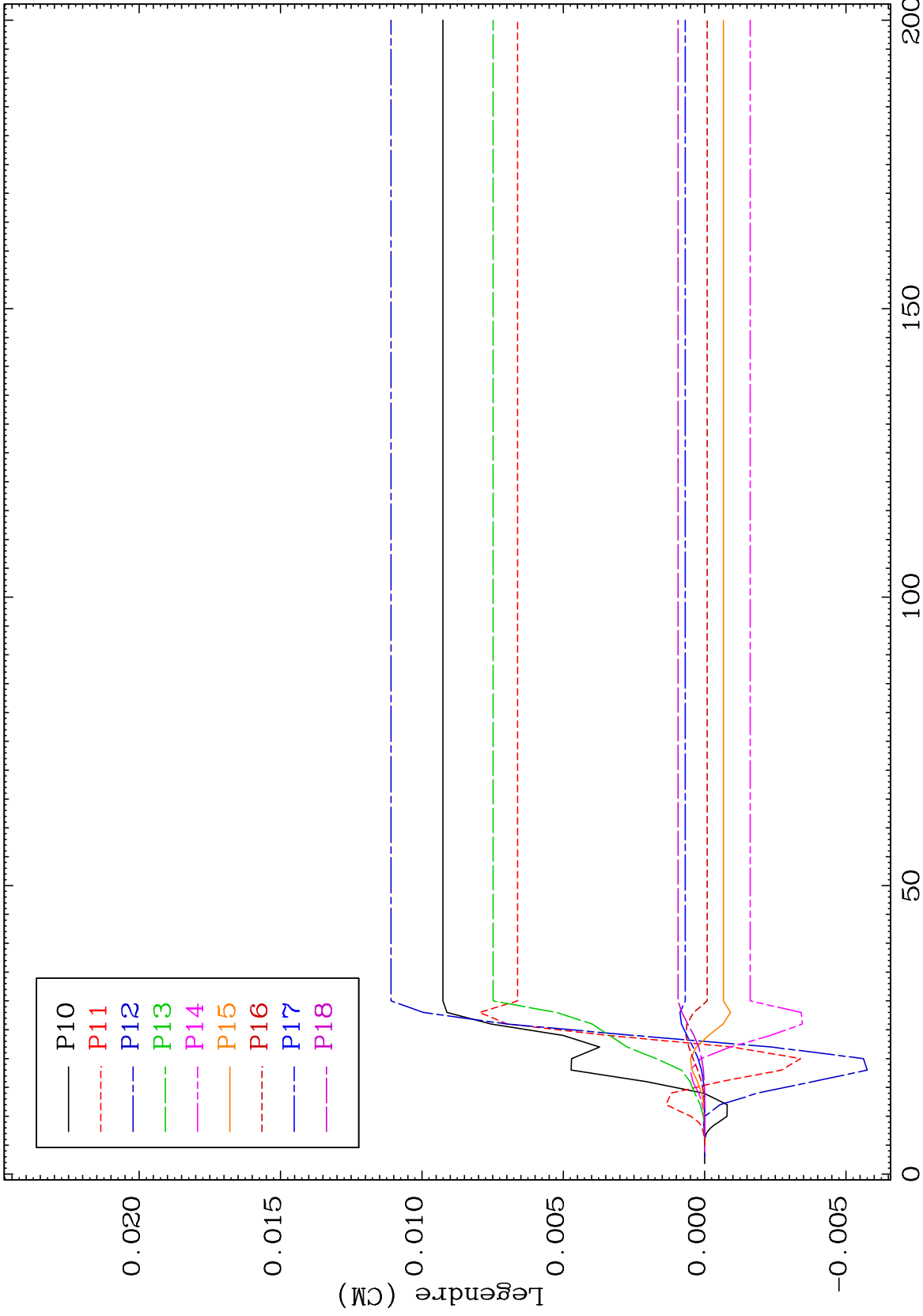


27 Incident Energy (MeV) 40-Zr-92

MAT 4031

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

40-Zr-92



28

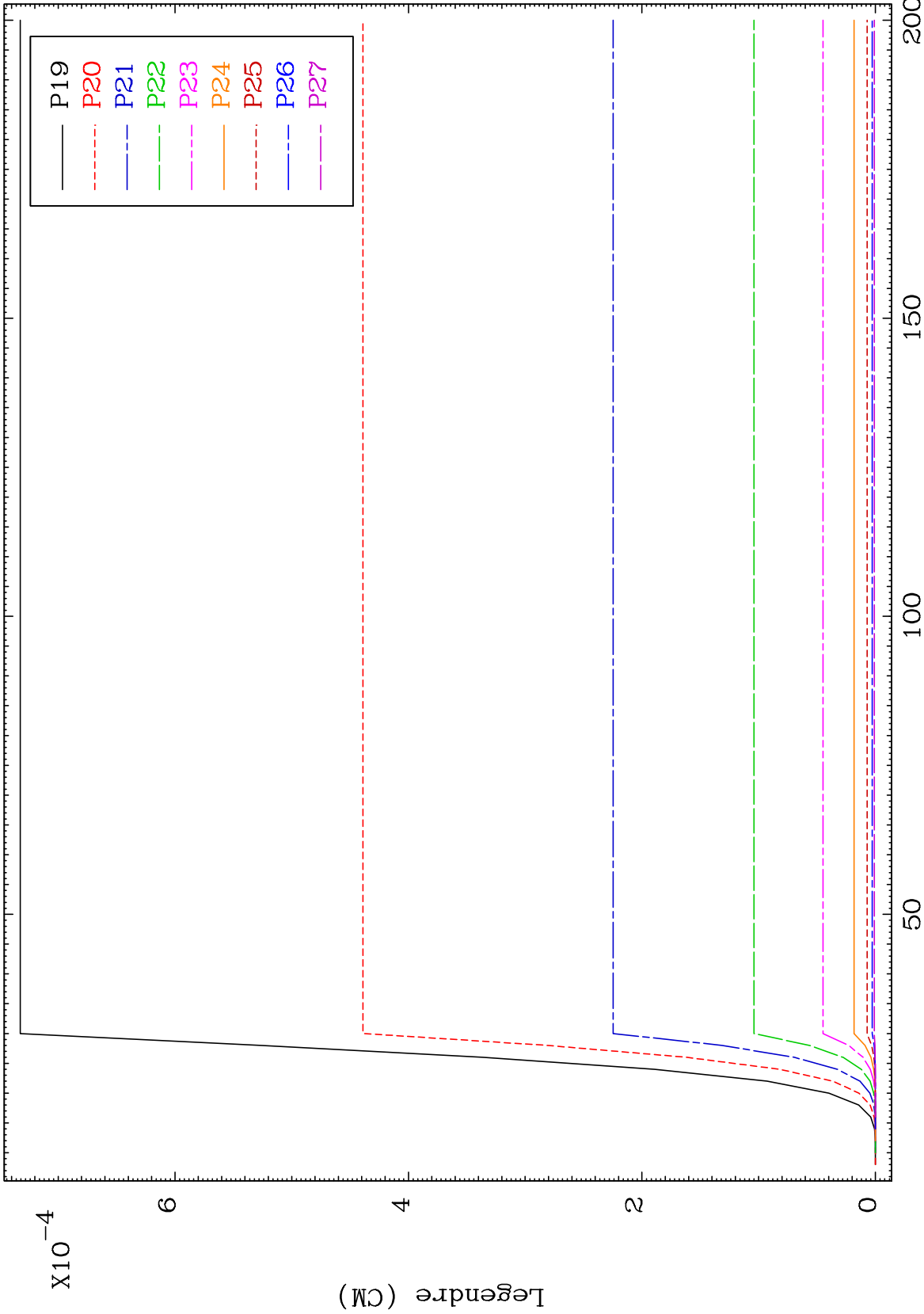
Incident Energy (MeV)

40-Zr-92

MAT 4031

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

40-Zr-92

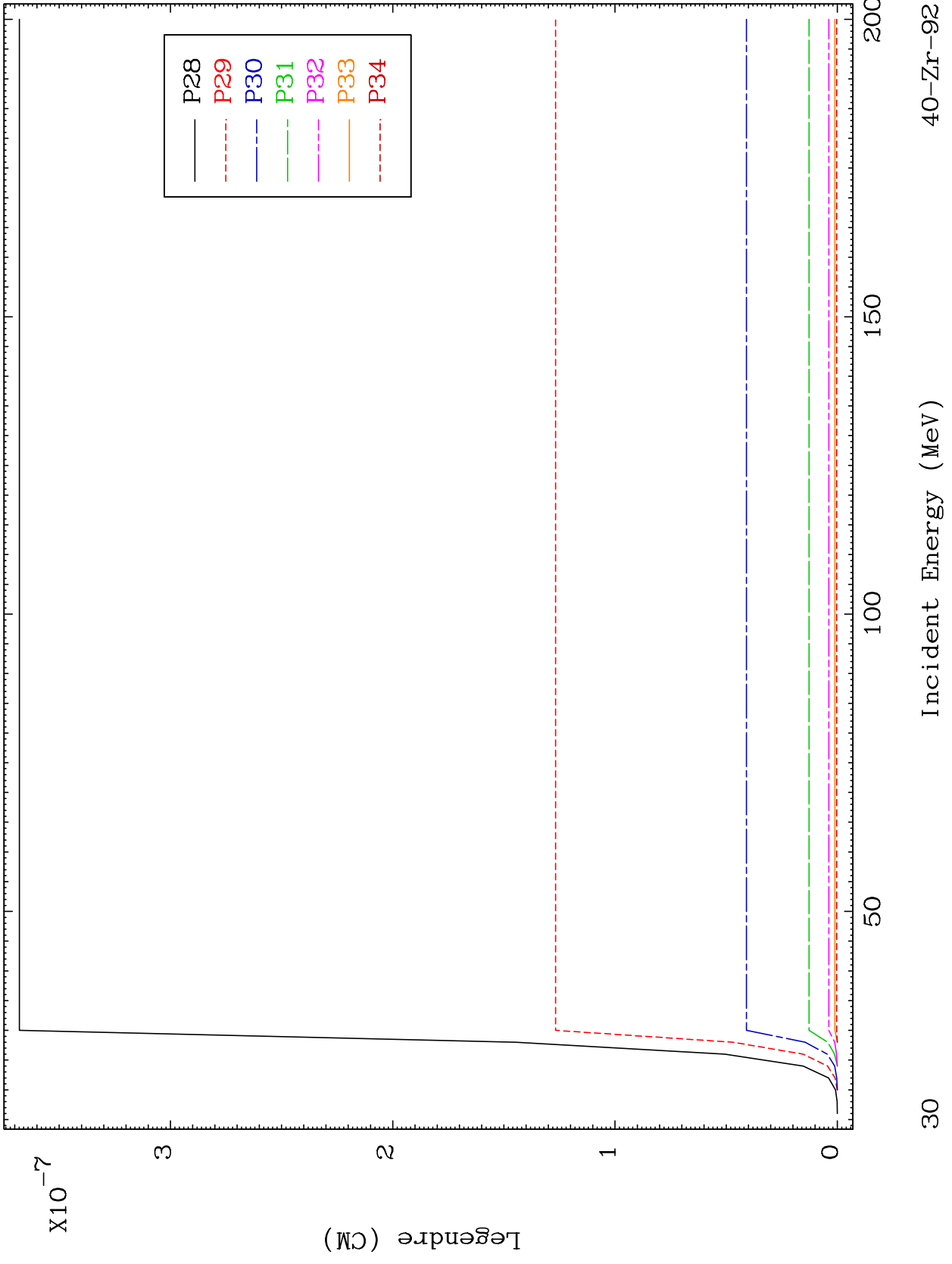


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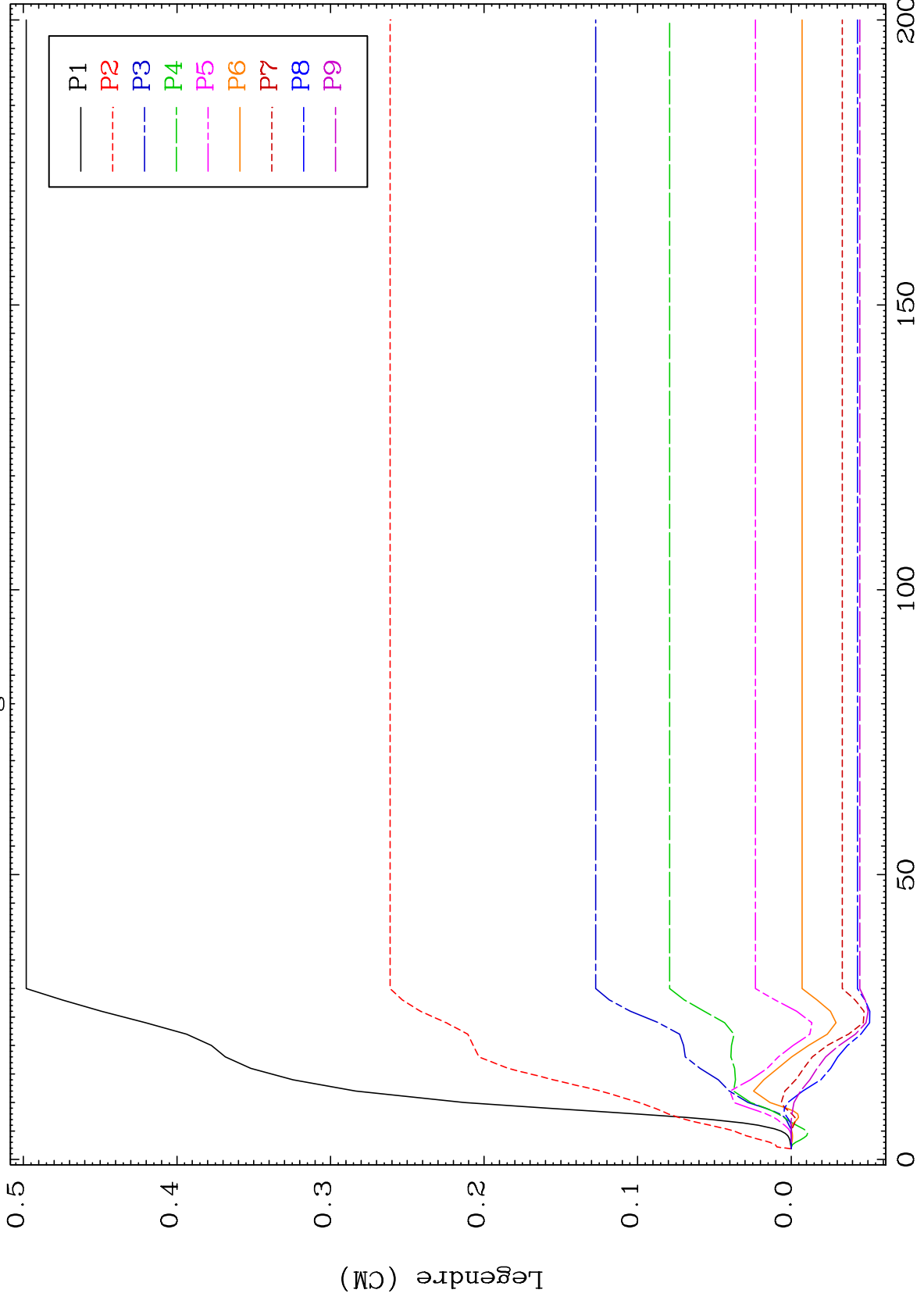
Incident Energy (MeV)

40-Zr-92

MAT 4031 MT= 53 (n,n') Level Legendre Coefficients 40-Zr-92



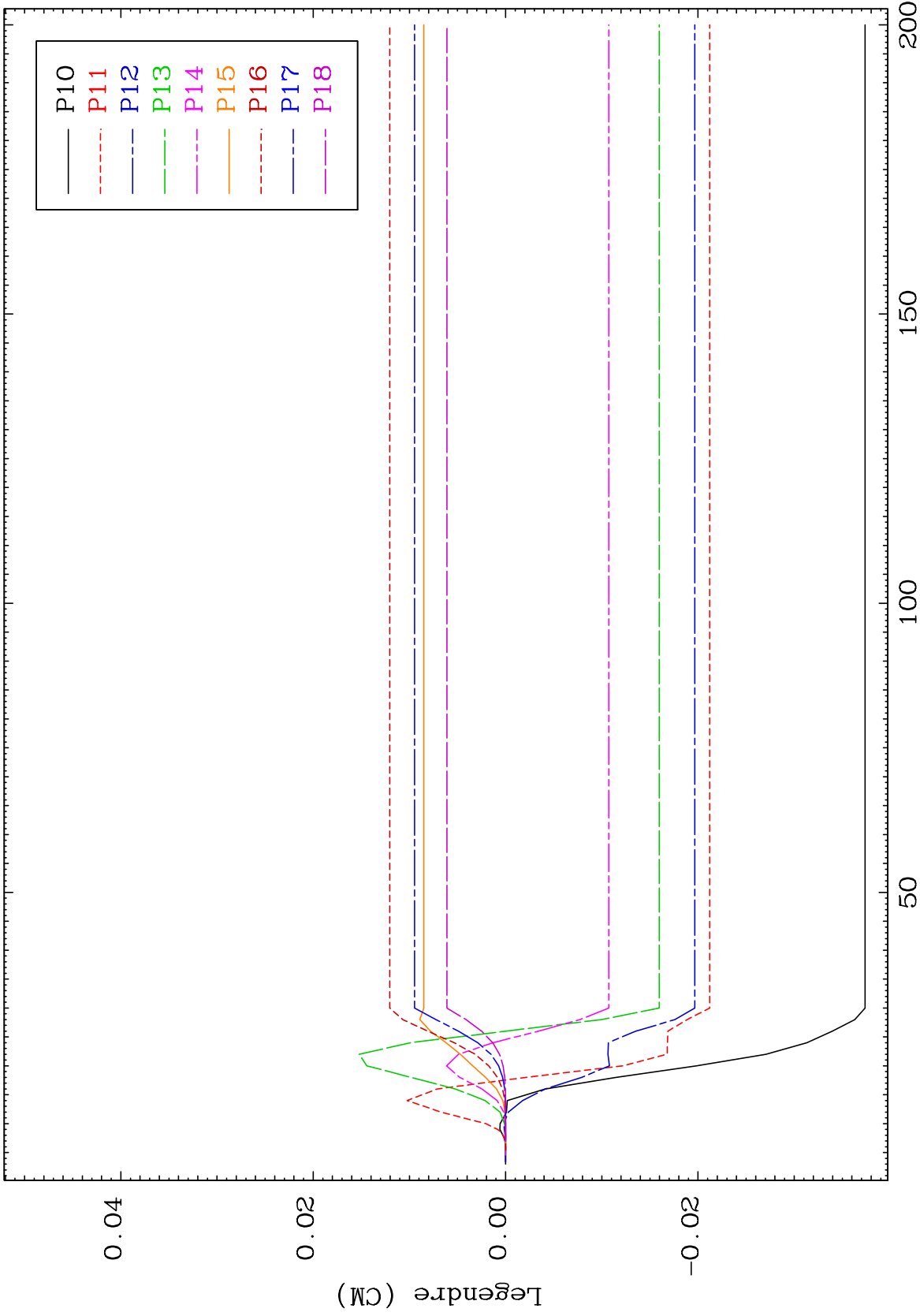
MAT 4031 MT= 54 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031

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

40-Zr-92

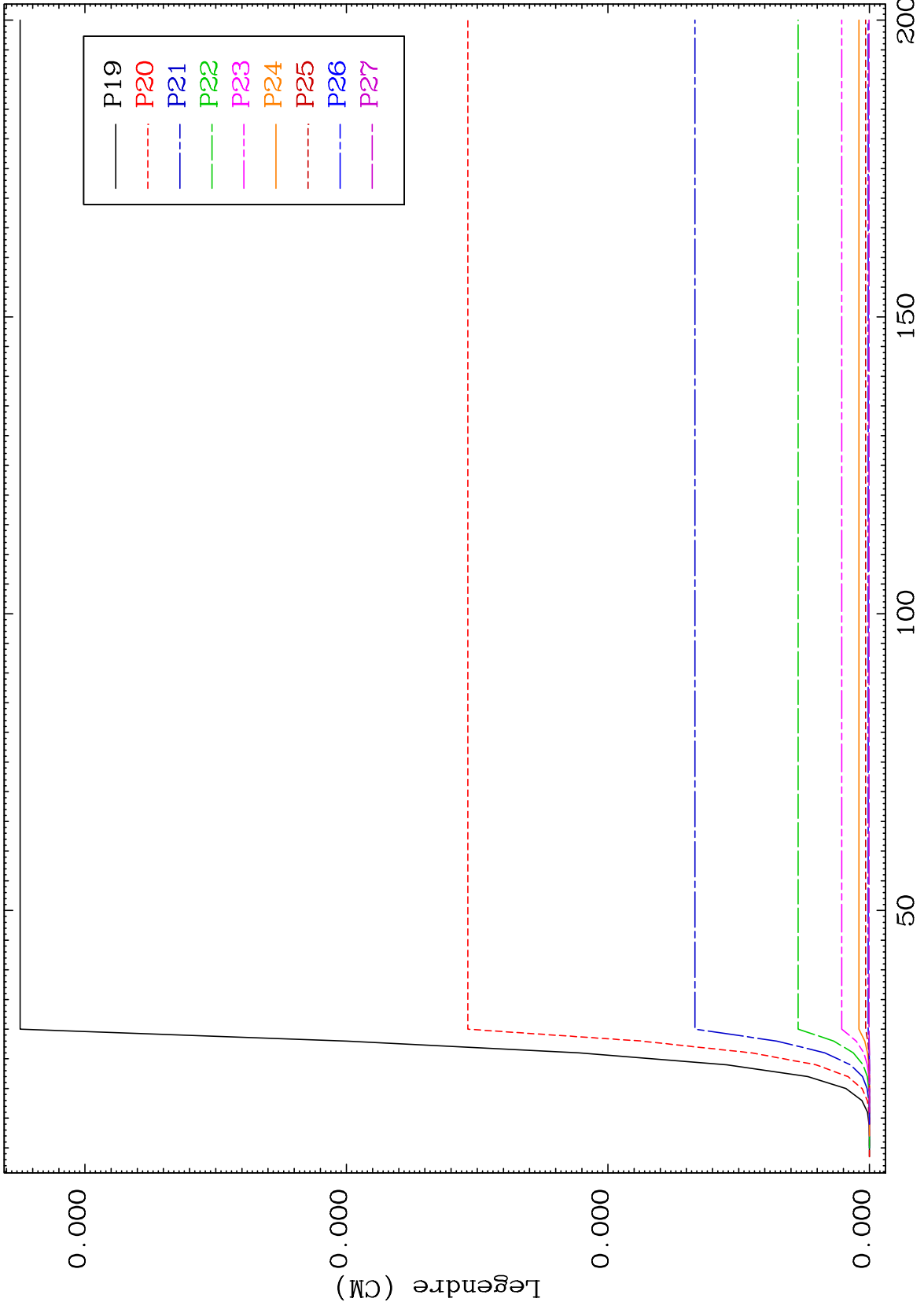


32

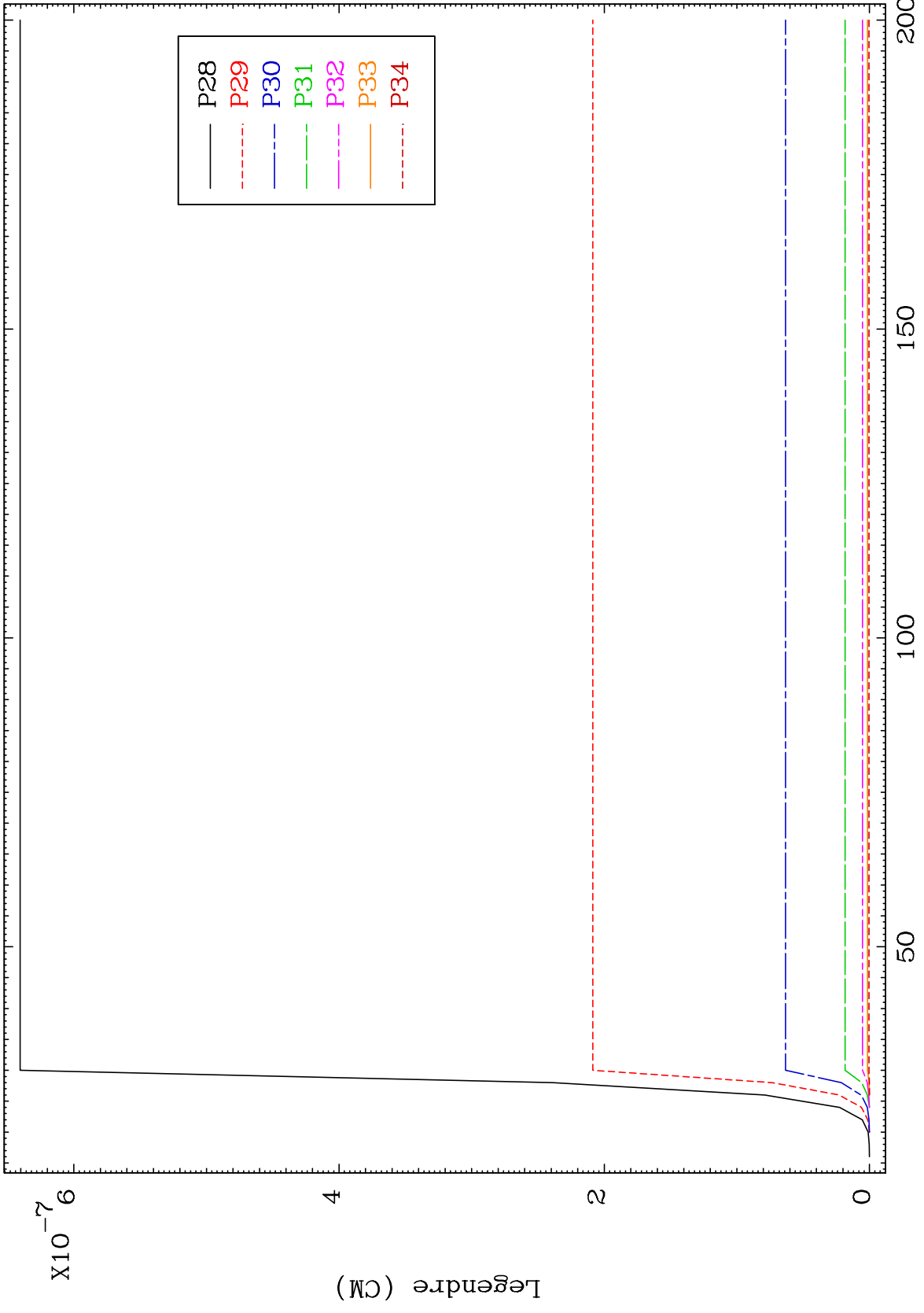
Incident Energy (MeV)

40-Zr-92

MAT 4031 MT= 54 (n,n') Level Legendre Coefficients 40-Zr-92

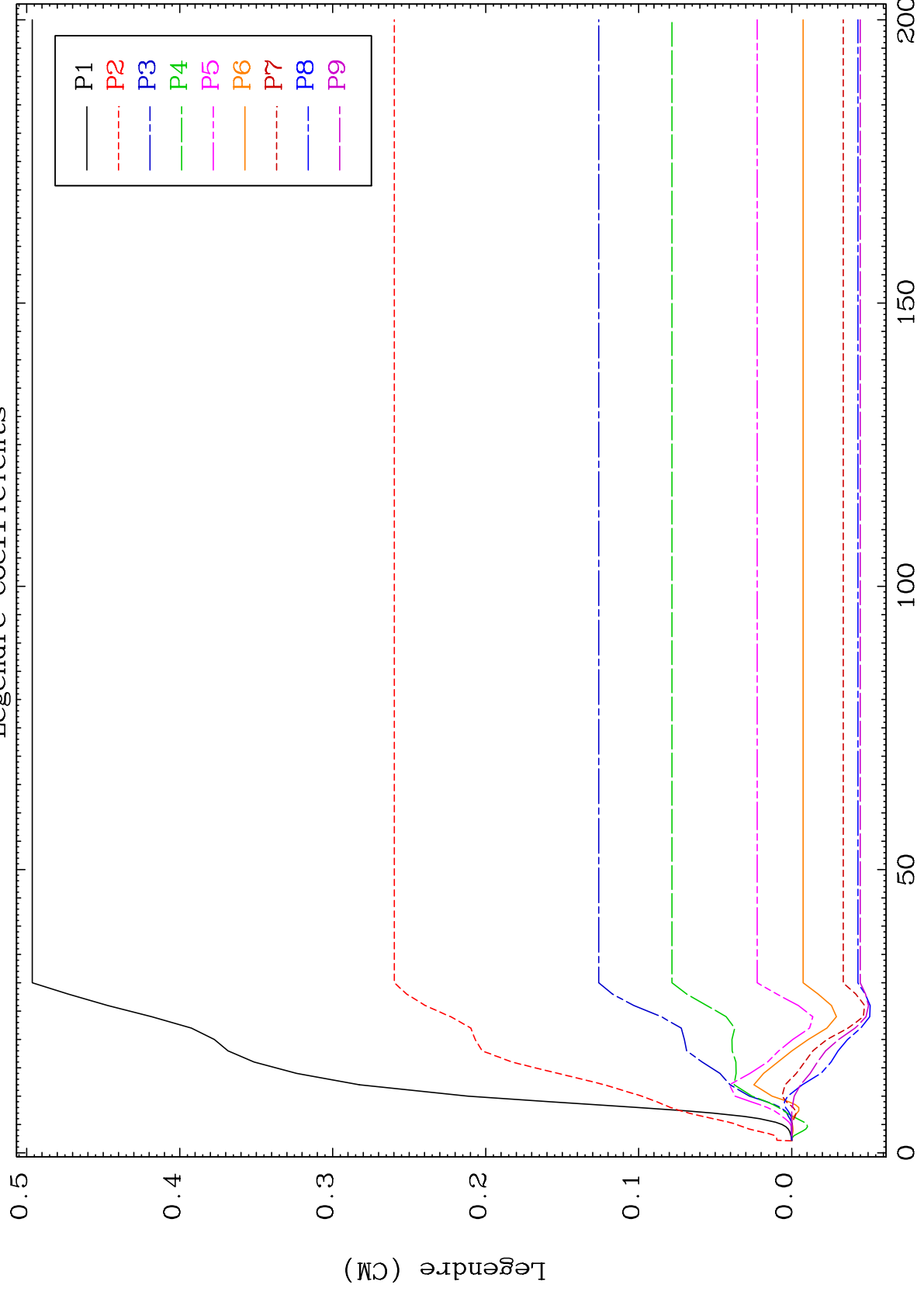


MAT 4031 MT= 54 (n,n') Level Legendre Coefficients 40-Zr-92



34 40-Zr-92

MAT 4031 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-92

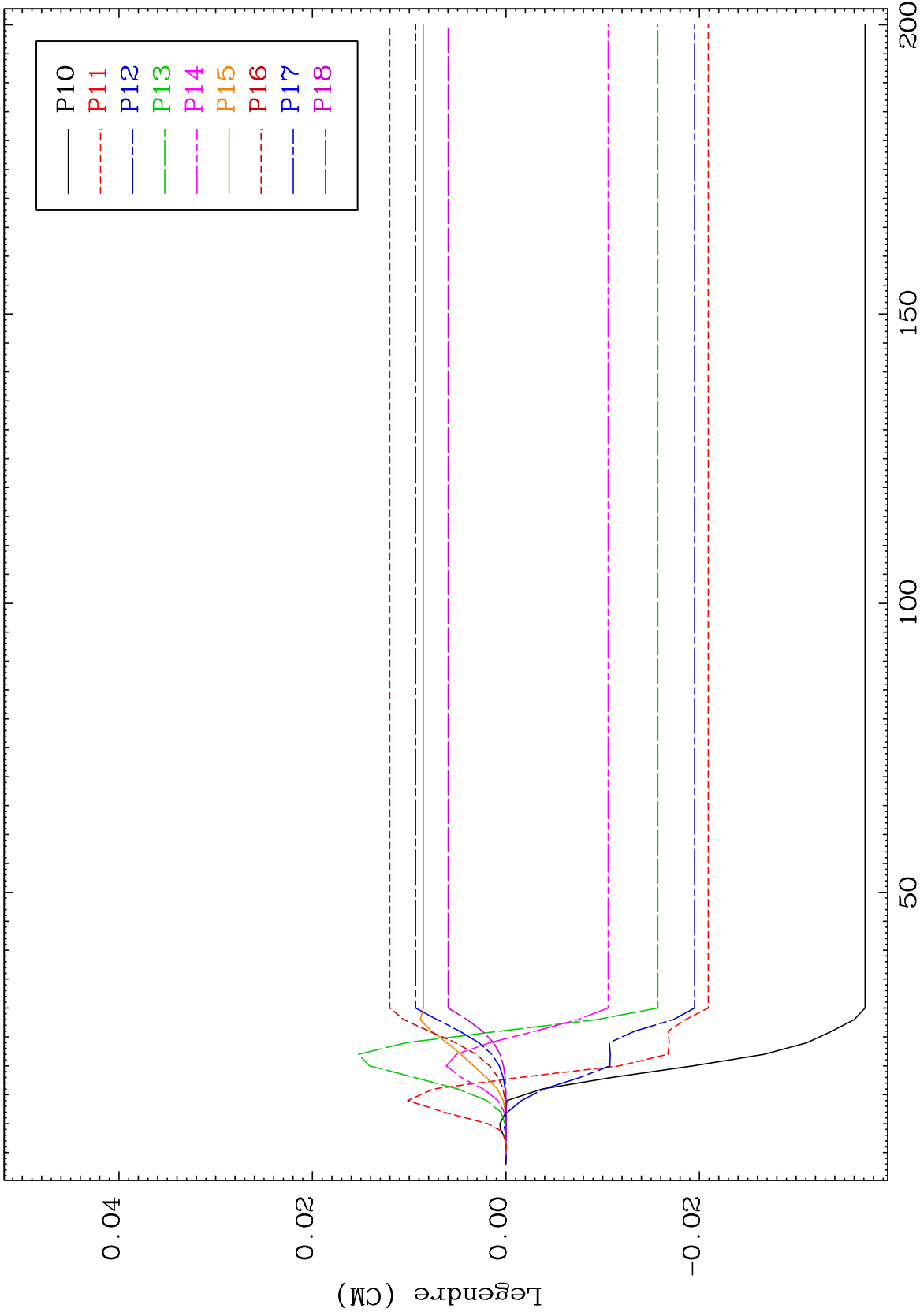


35 Incident Energy (MeV) 40-Zr-92

MAT 4031

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

40-Zr-92

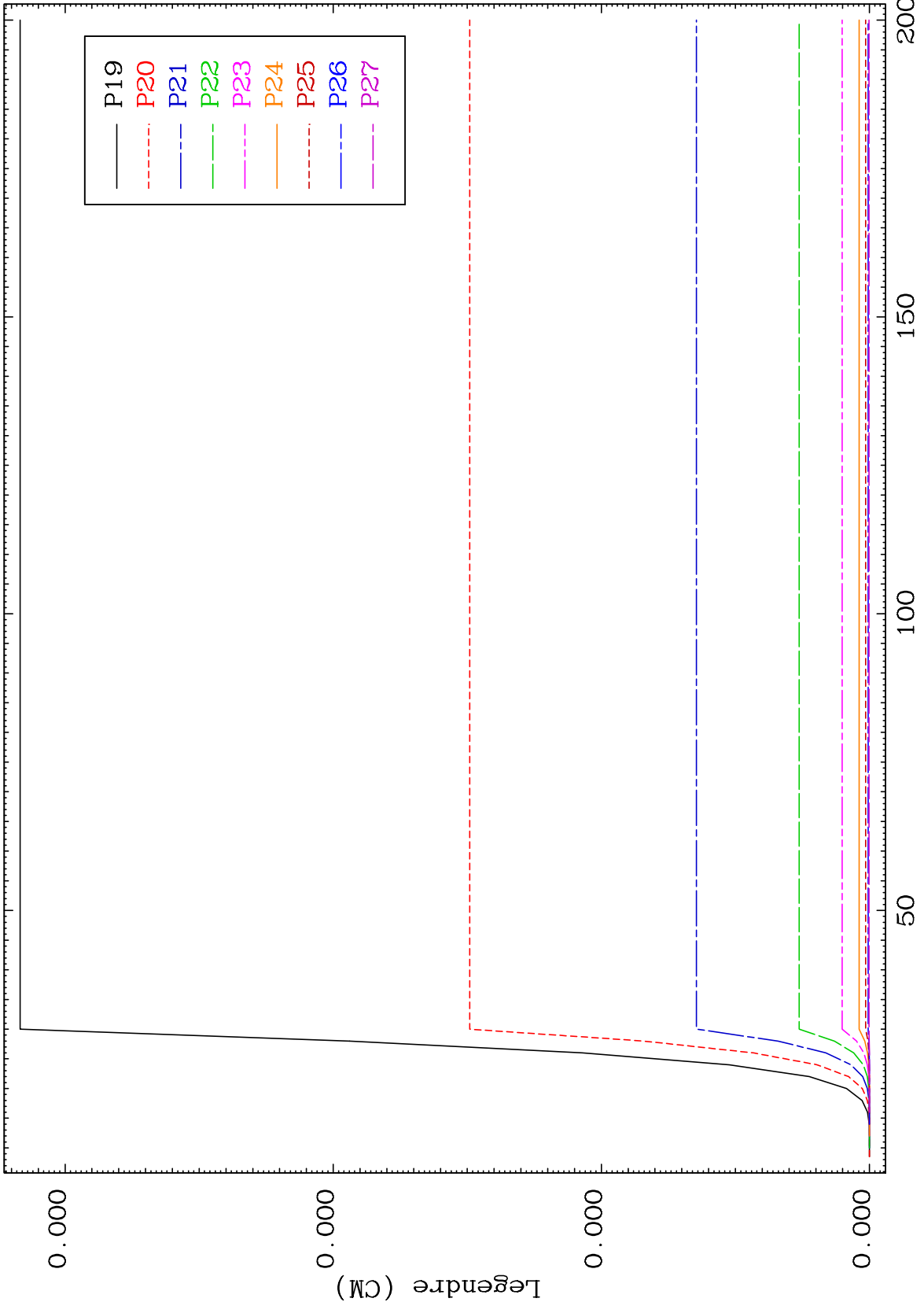


36

Incident Energy (MeV)

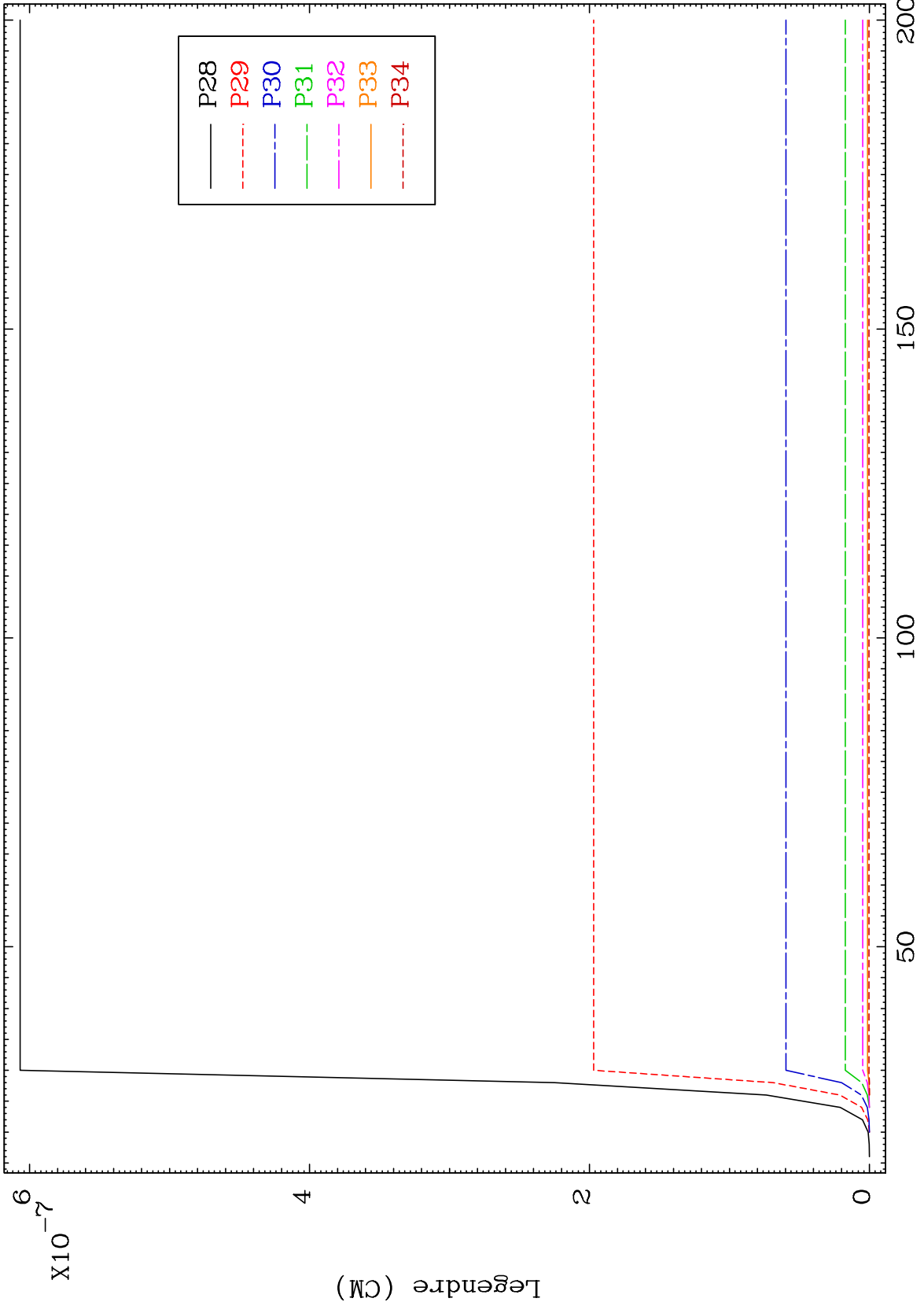
40-Zr-92

MAT 4031 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-92



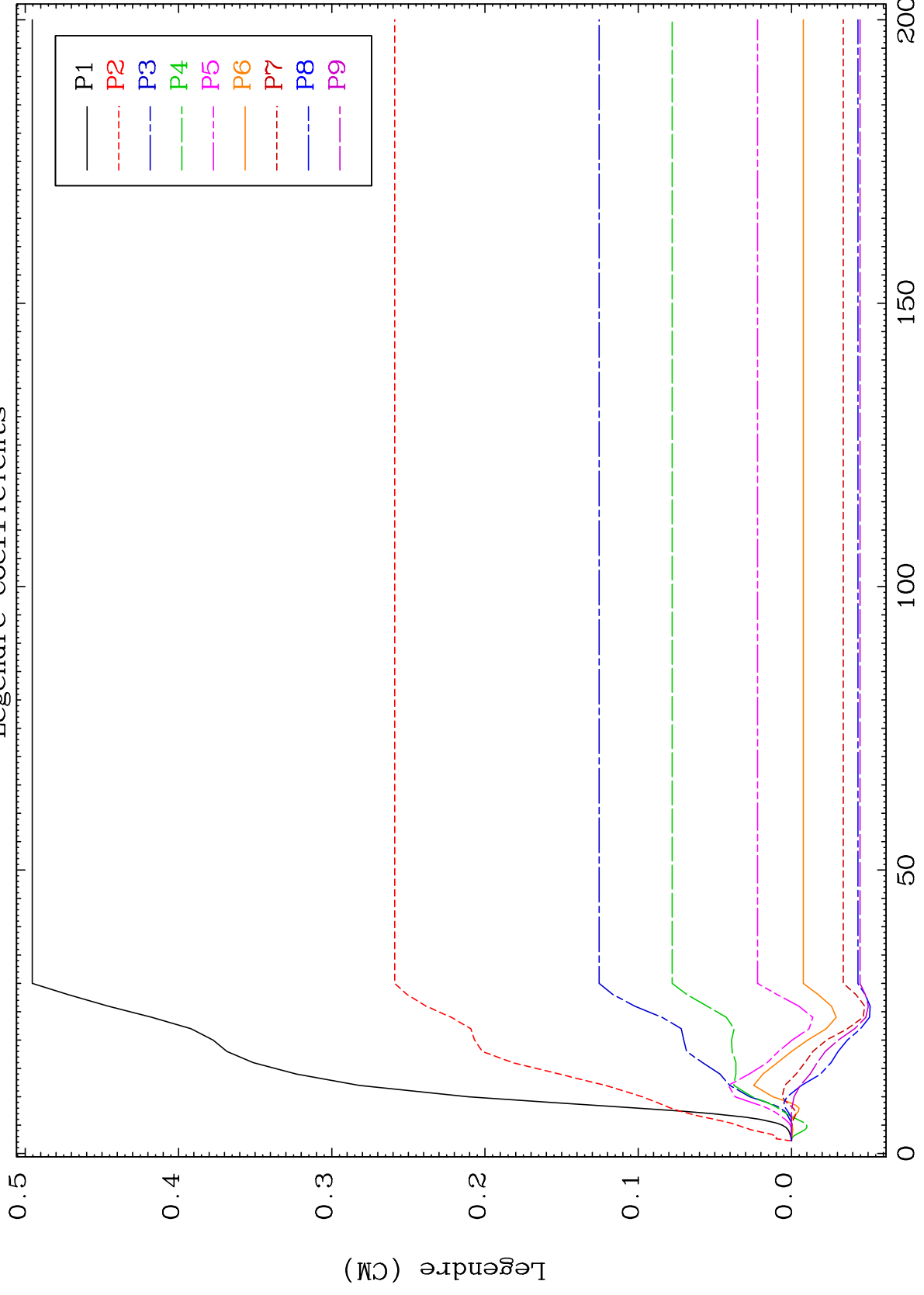
37 40-Zr-92

MAT 4031 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-92



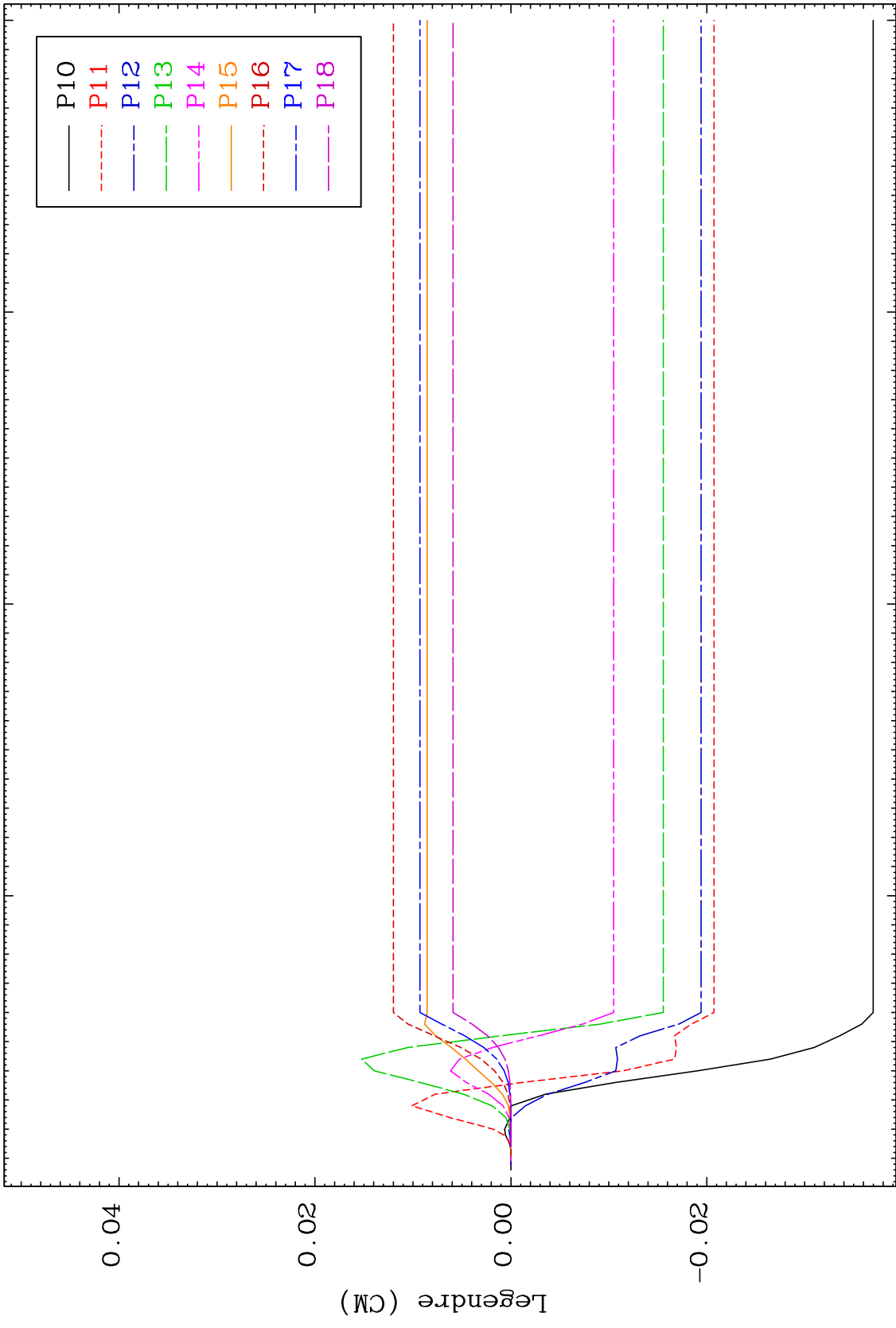
38 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-92



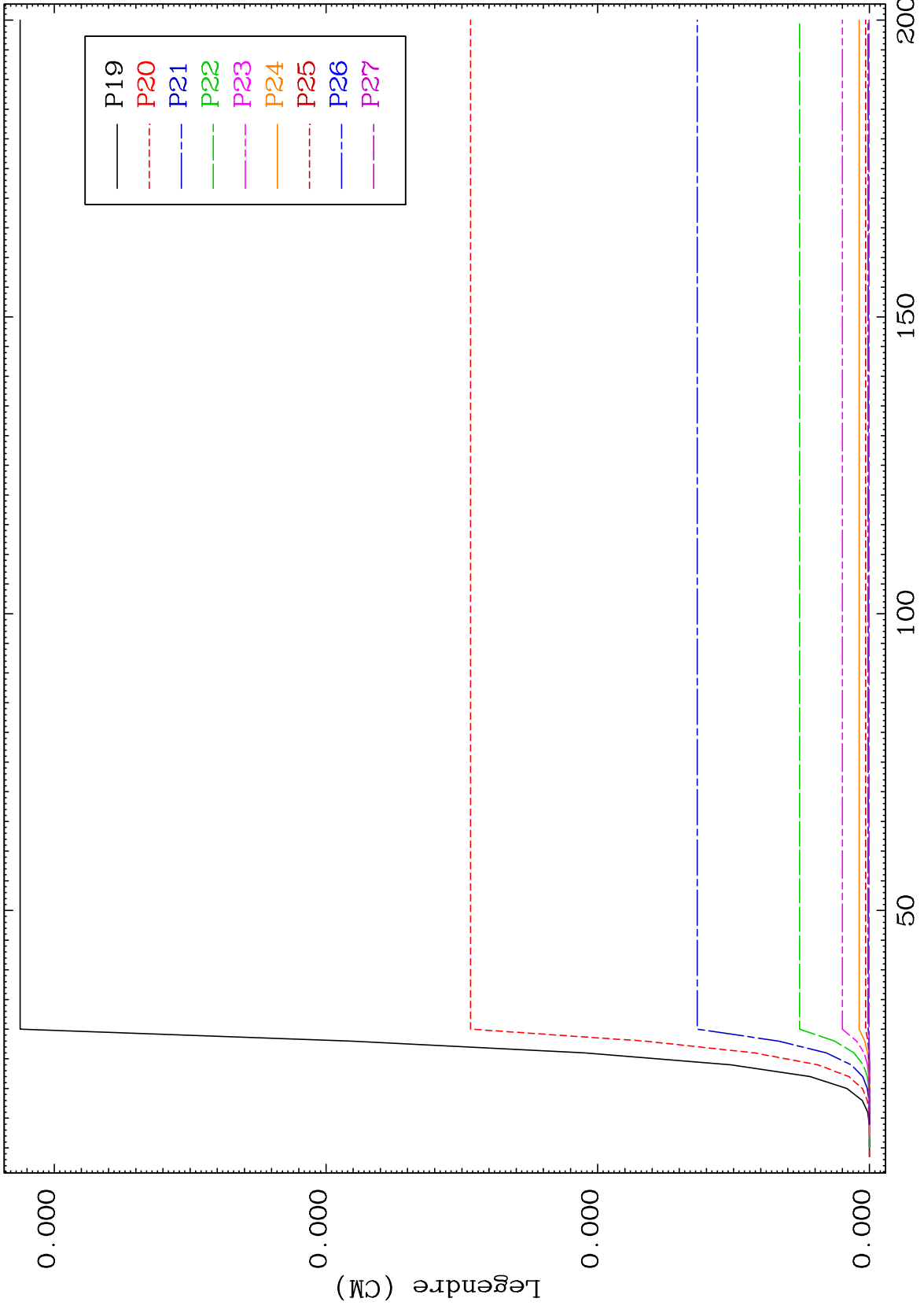
39 40-Zr-92

MAT 4031 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-92

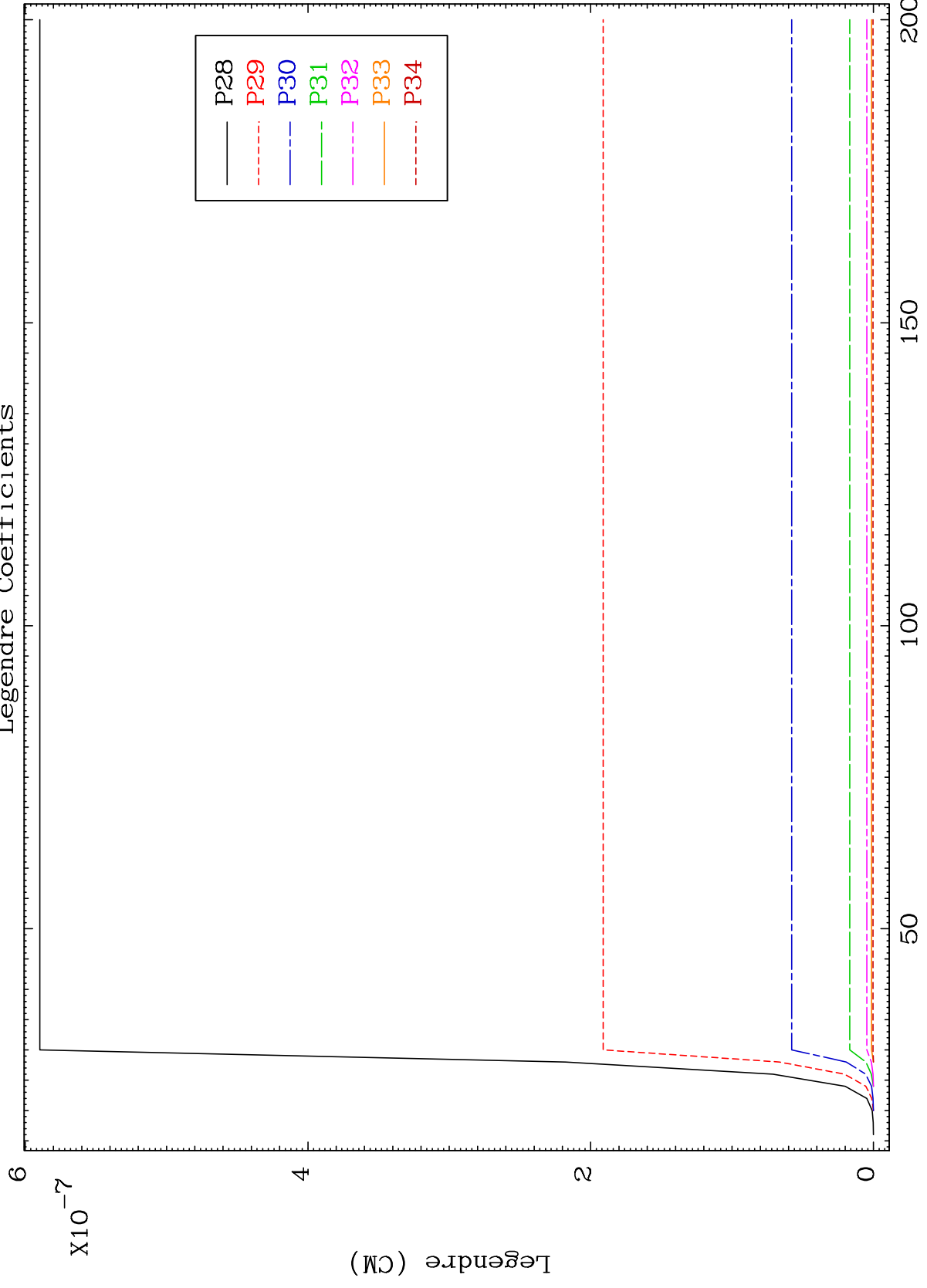


40-Zr-92 Incident Energy (MeV)

MAT 4031 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-92

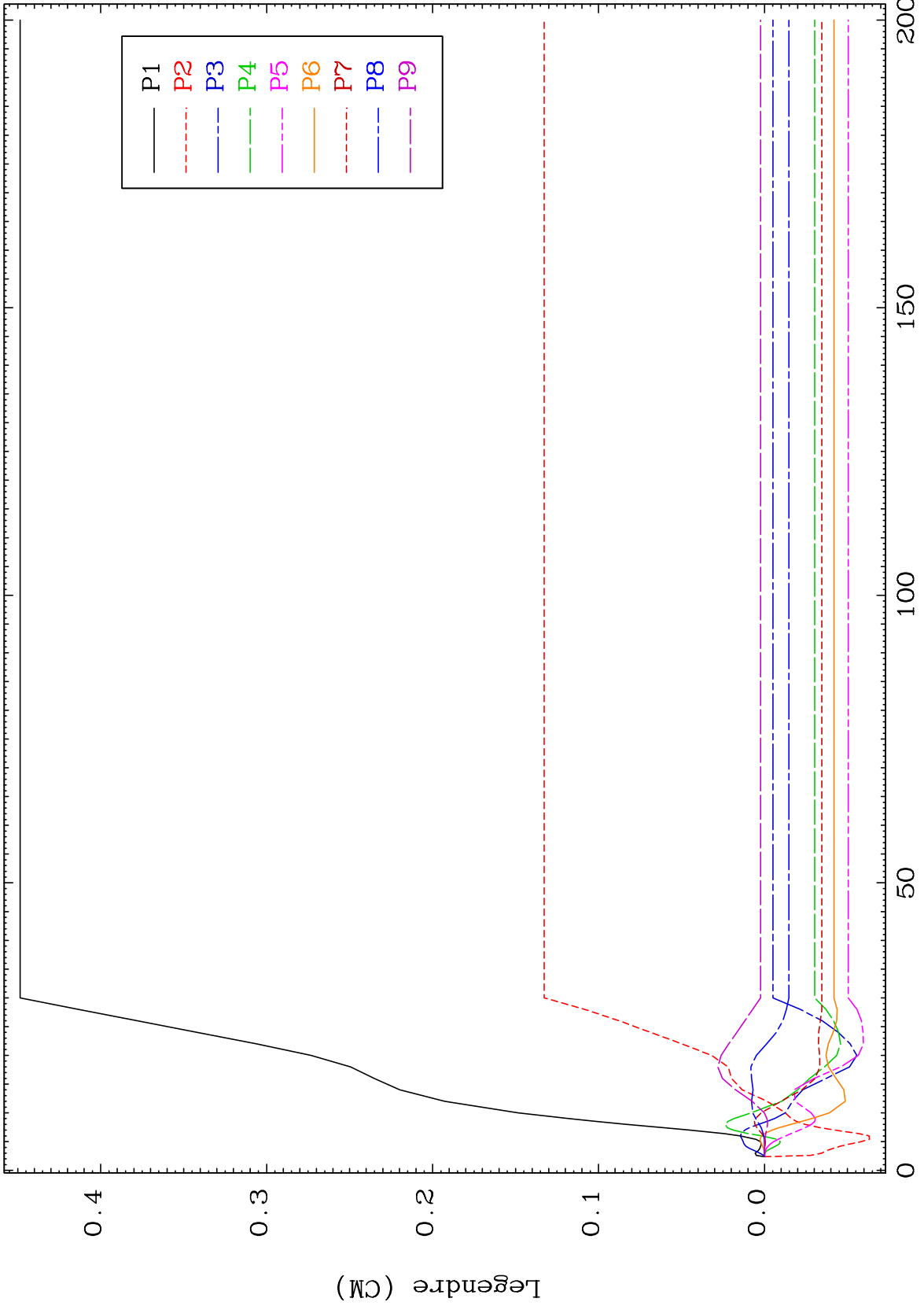


40-Zr-92

Incident Energy (MeV)

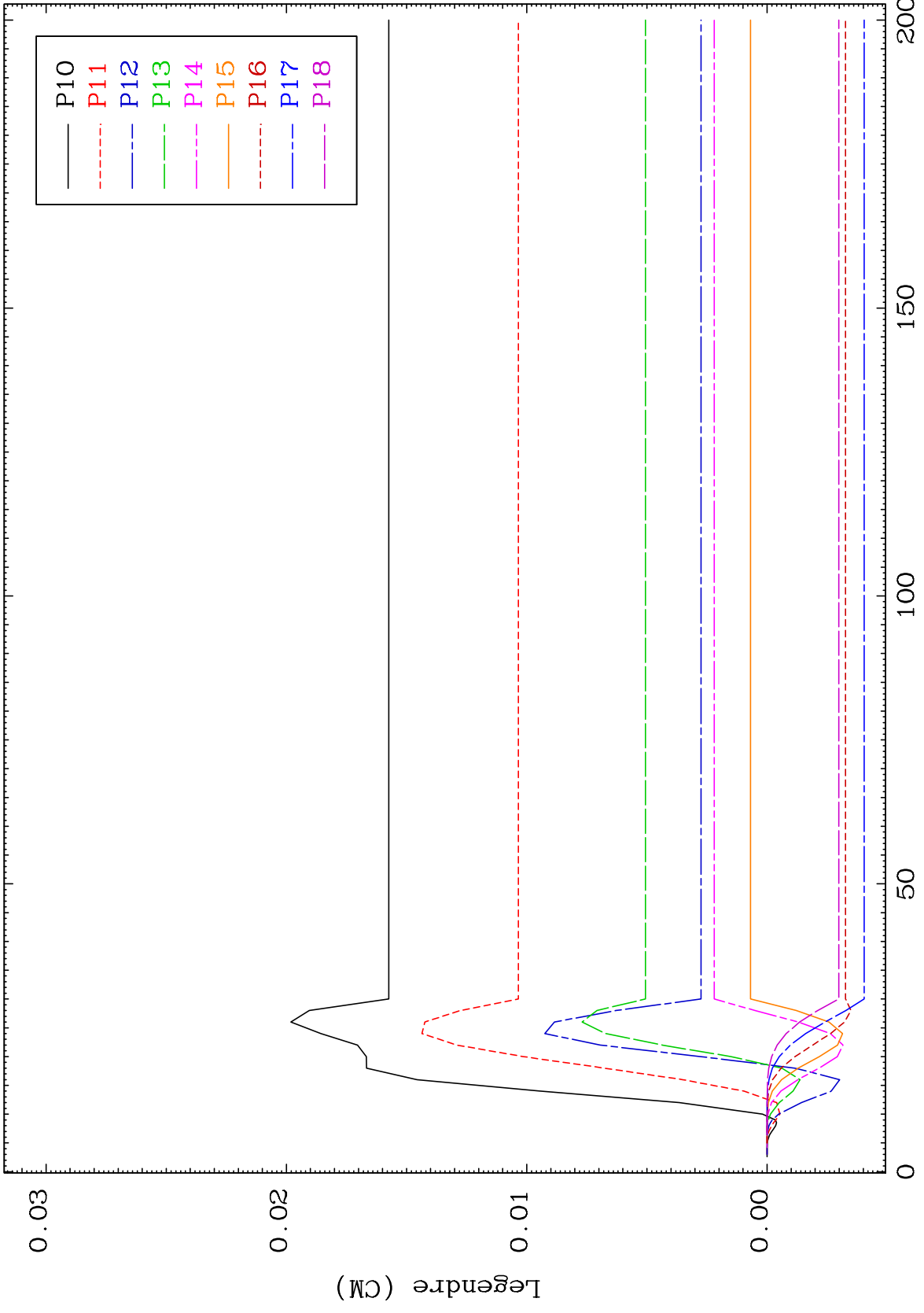
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MAT 4031 MT= 57 (n,n') Level Legendre Coefficients 40-Zr-92



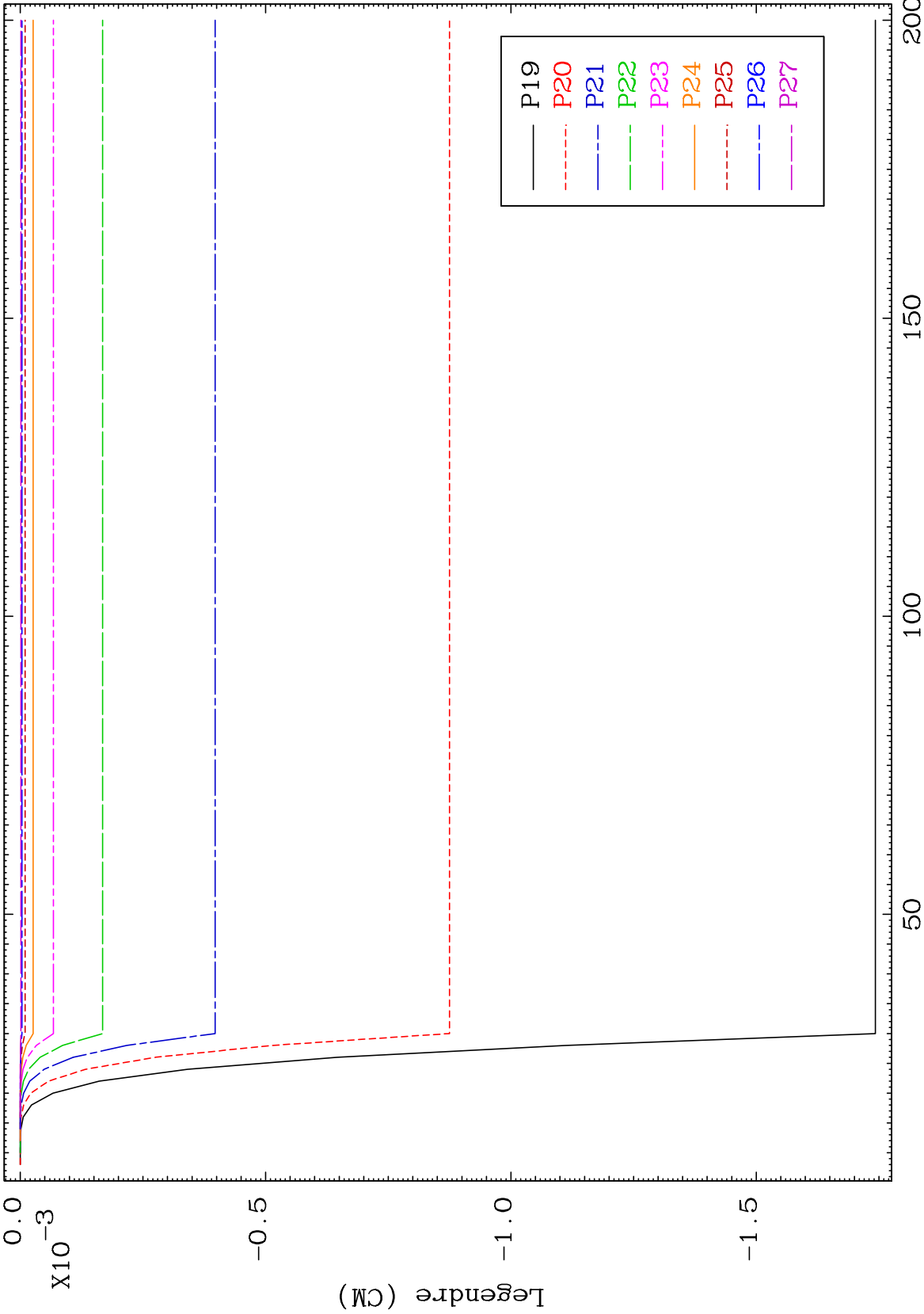
43 40-Zr-92

MAT 4031 MT= 57 (n,n') Level Legendre Coefficients 40-Zr-92



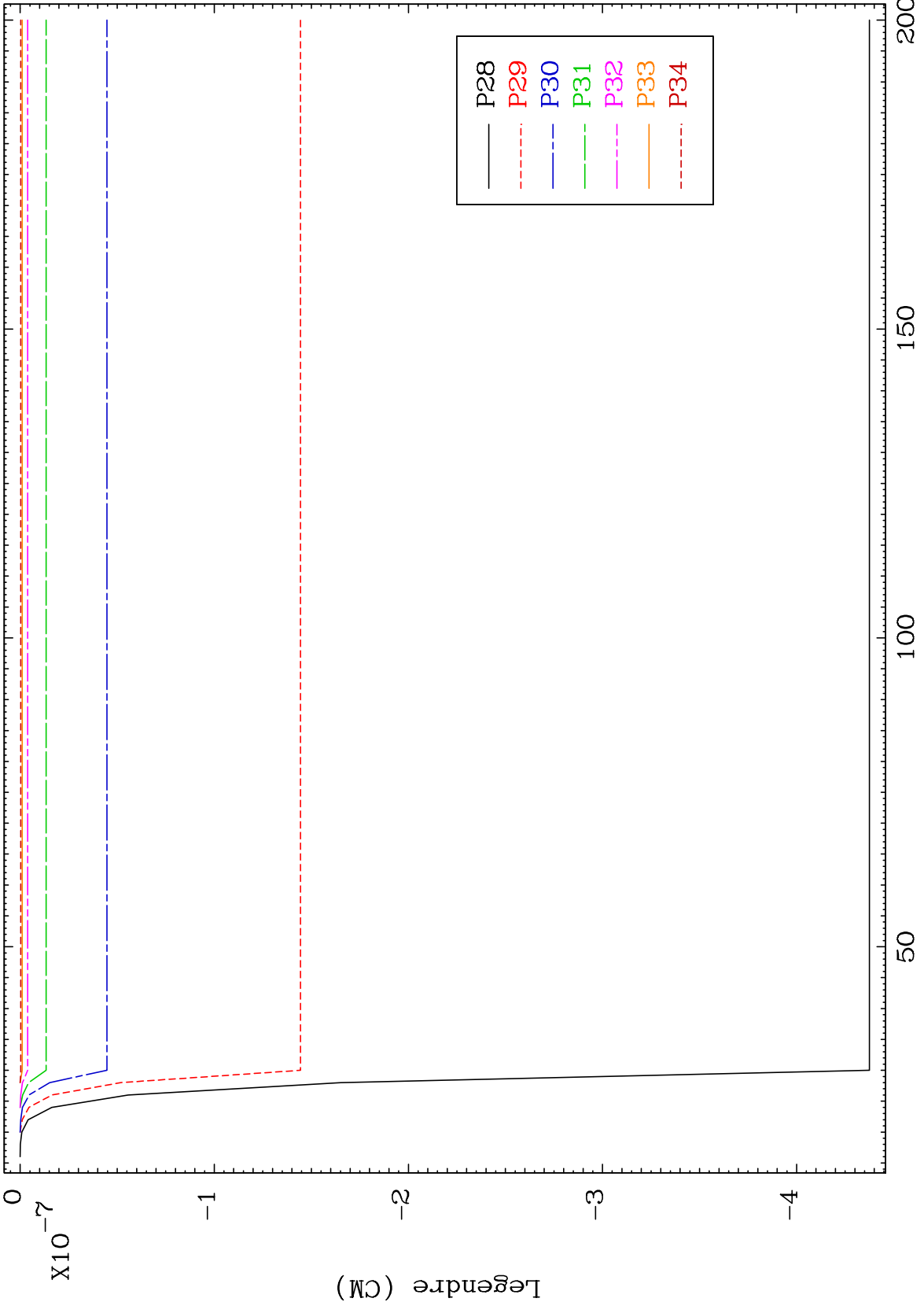
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MAT 4031 MT= 57 (n,n') Level Legendre Coefficients 40-Zr-92



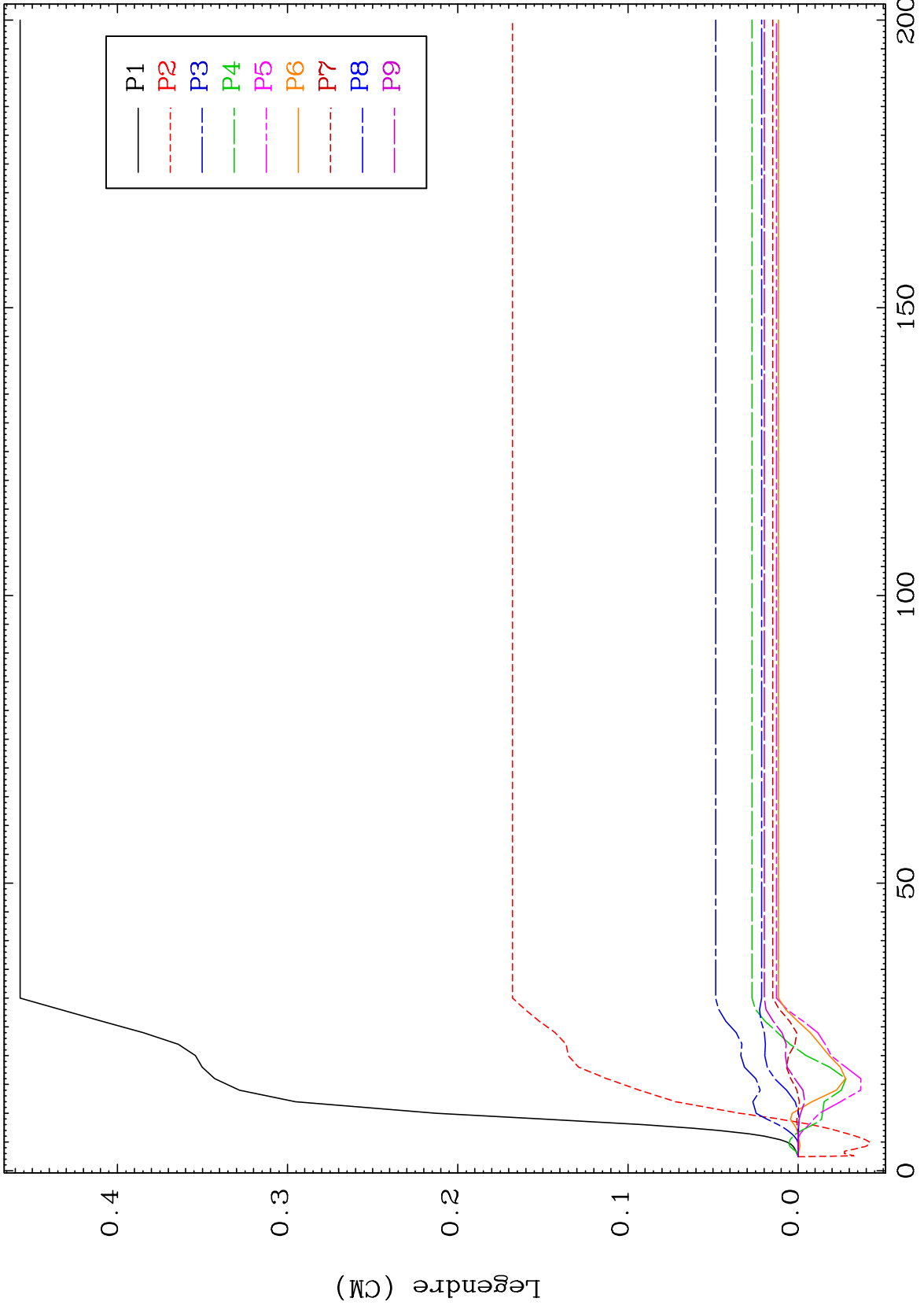
45 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 57 (n,n') Level Legendre Coefficients 40-Zr-92



46 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 58 (n,n') Level Legendre Coefficients 40-Zr-92

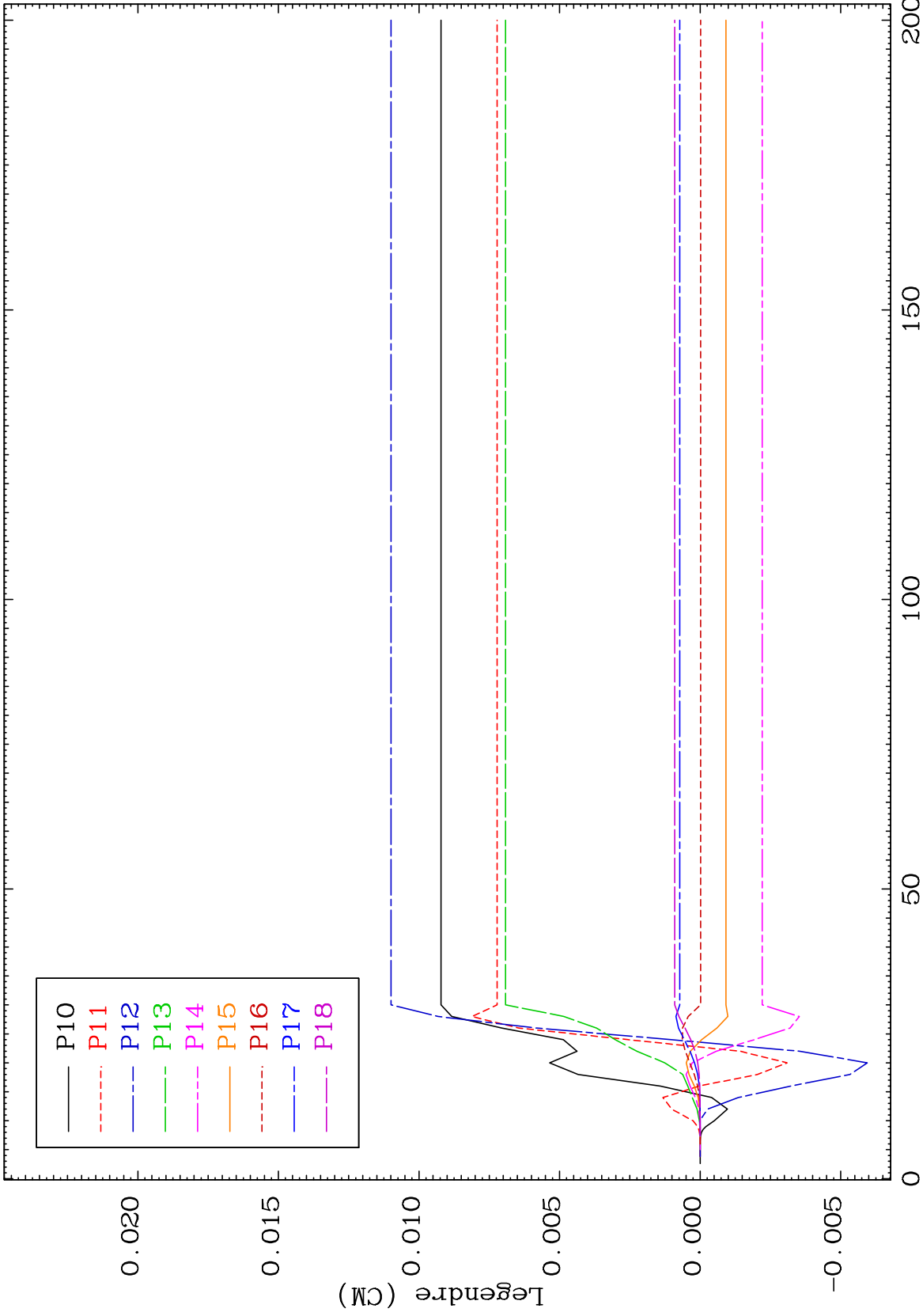


47 40-Zr-92

MAT 4031

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

40-Zr-92

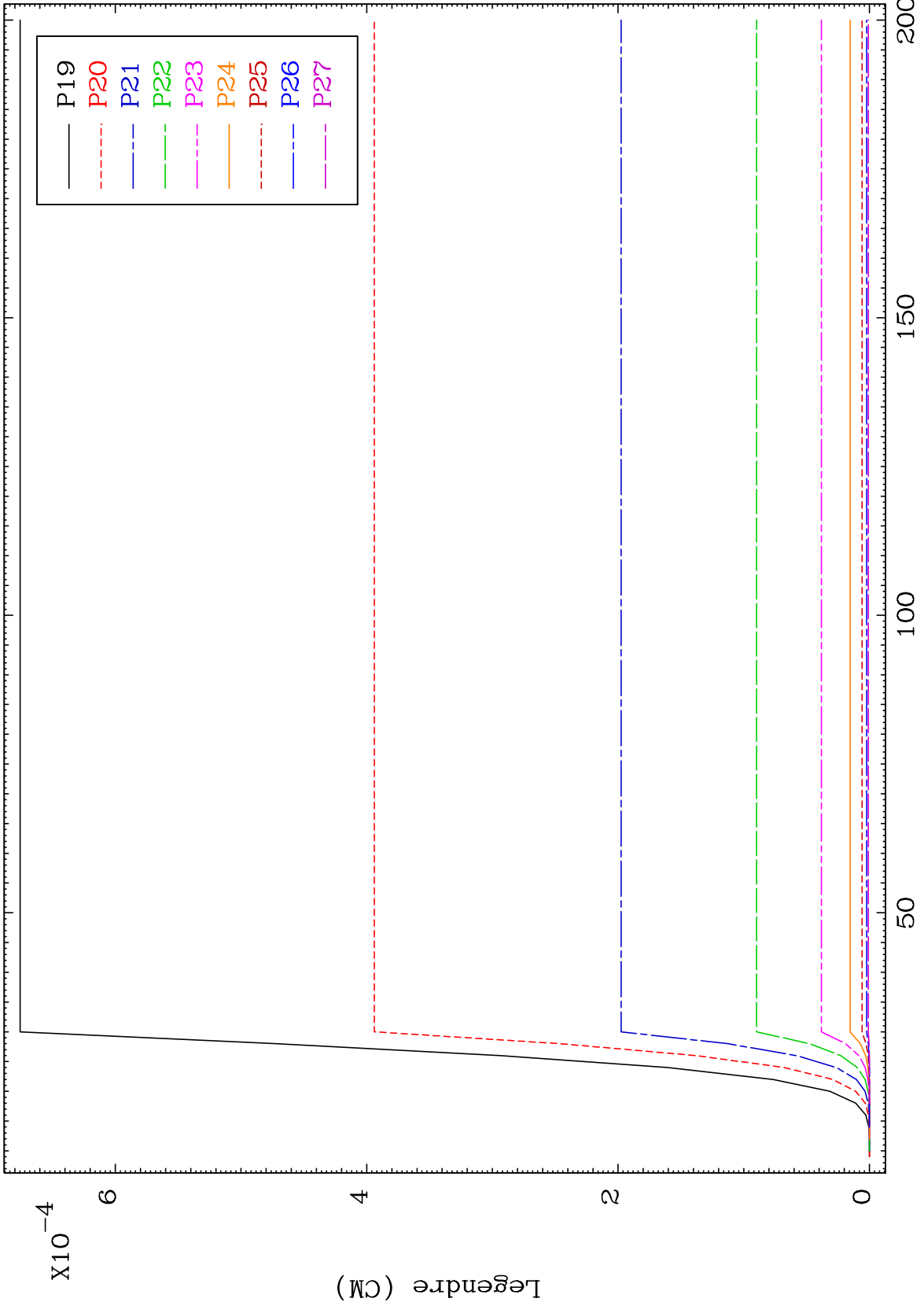


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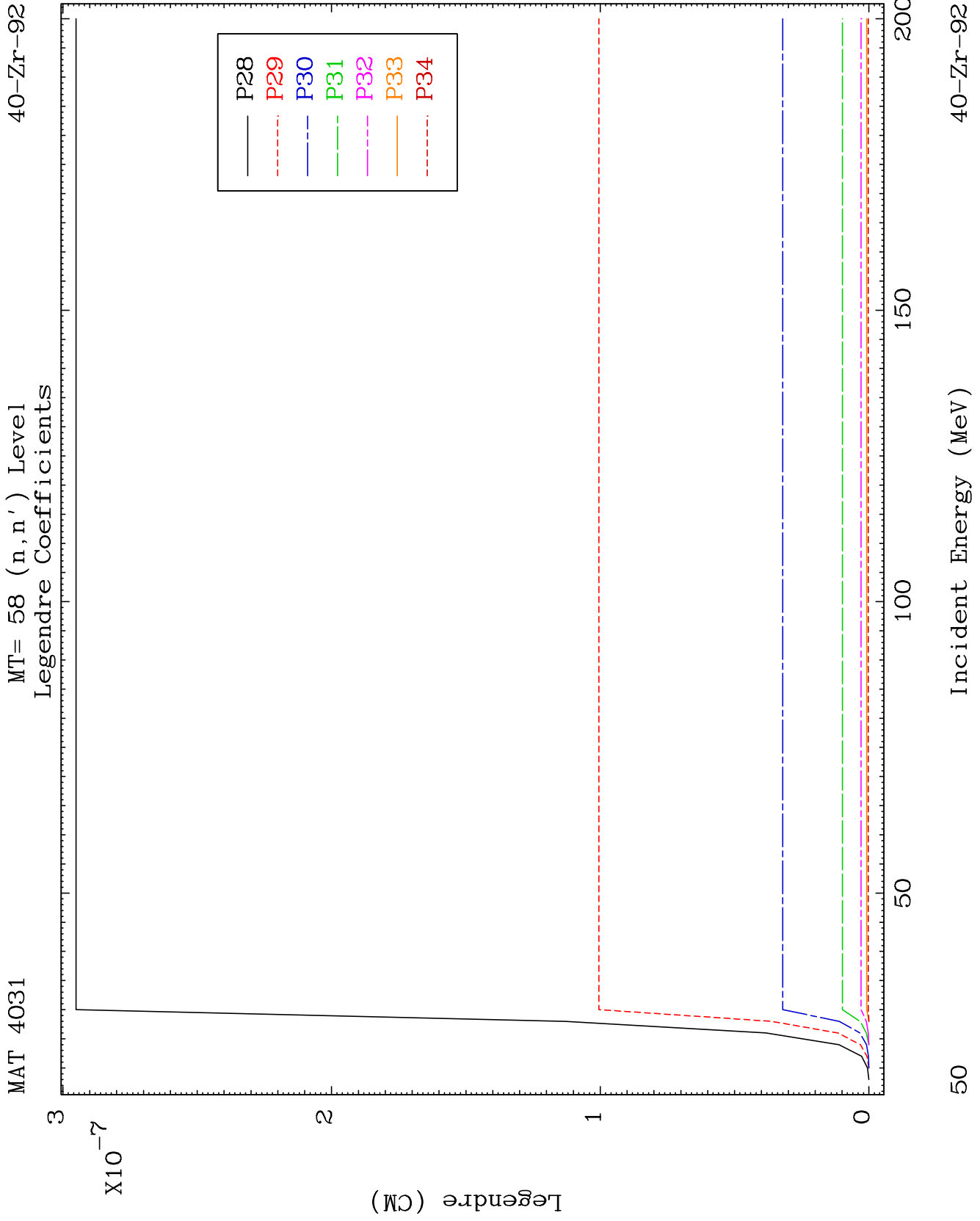
Incident Energy (MeV)

40-Zr-92

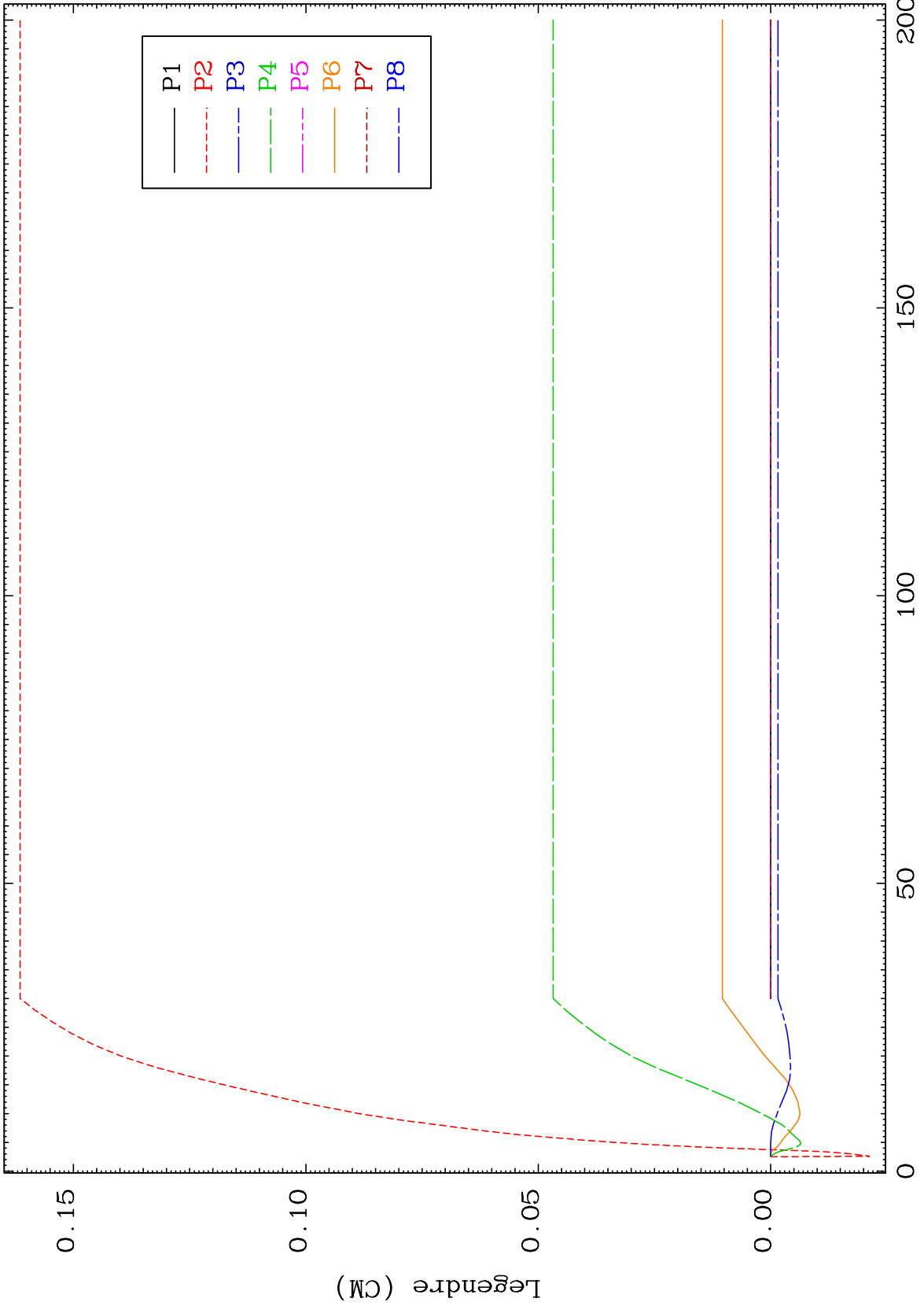
MAT 4031 MT= 58 (n,n') Level Legendre Coefficients 40-Zr-92



49 Incident Energy (MeV) 200 40-Zr-92

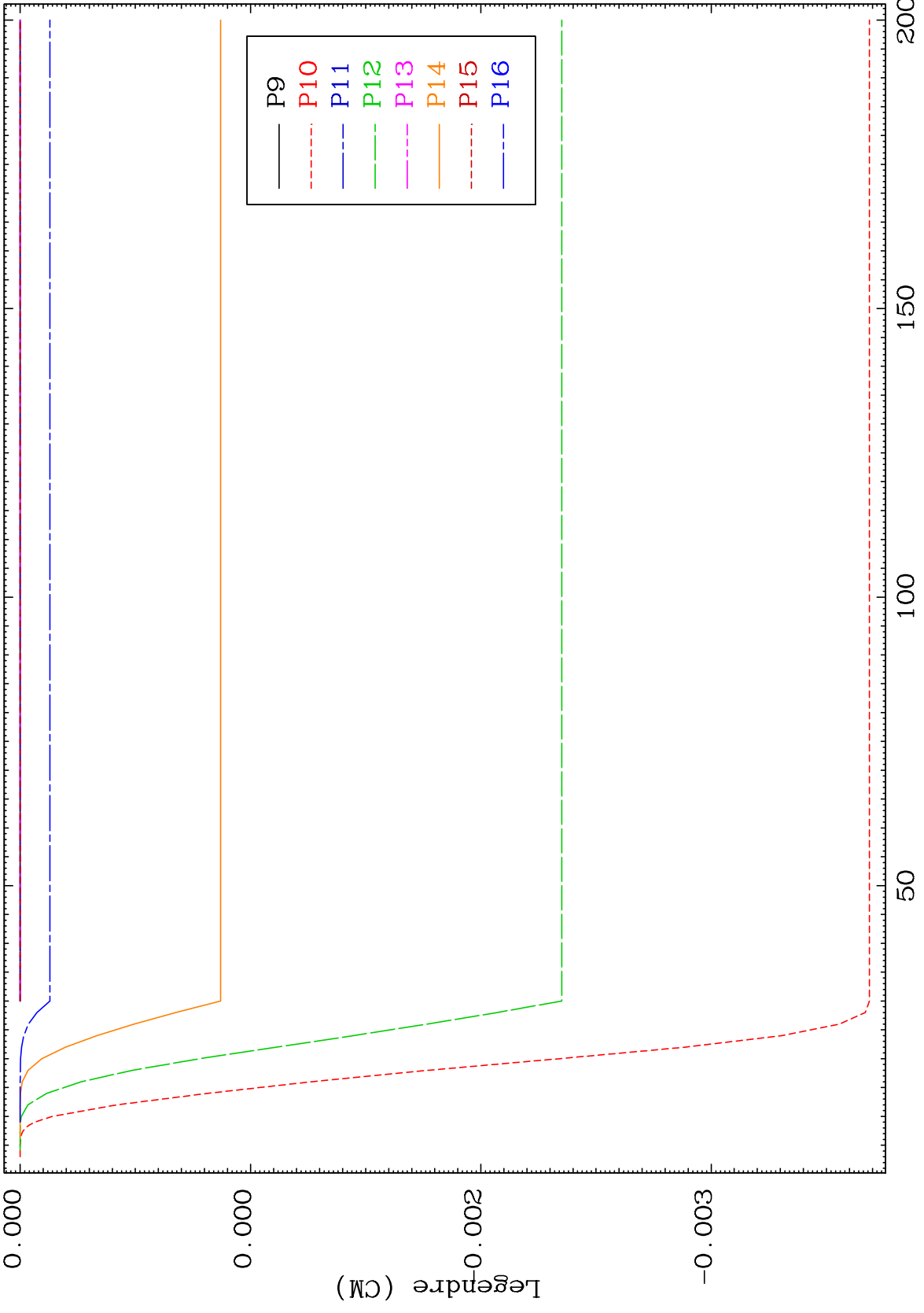


MAT 4031 MT= 59 (n,n') Level Legendre Coefficients 40-Zr-92



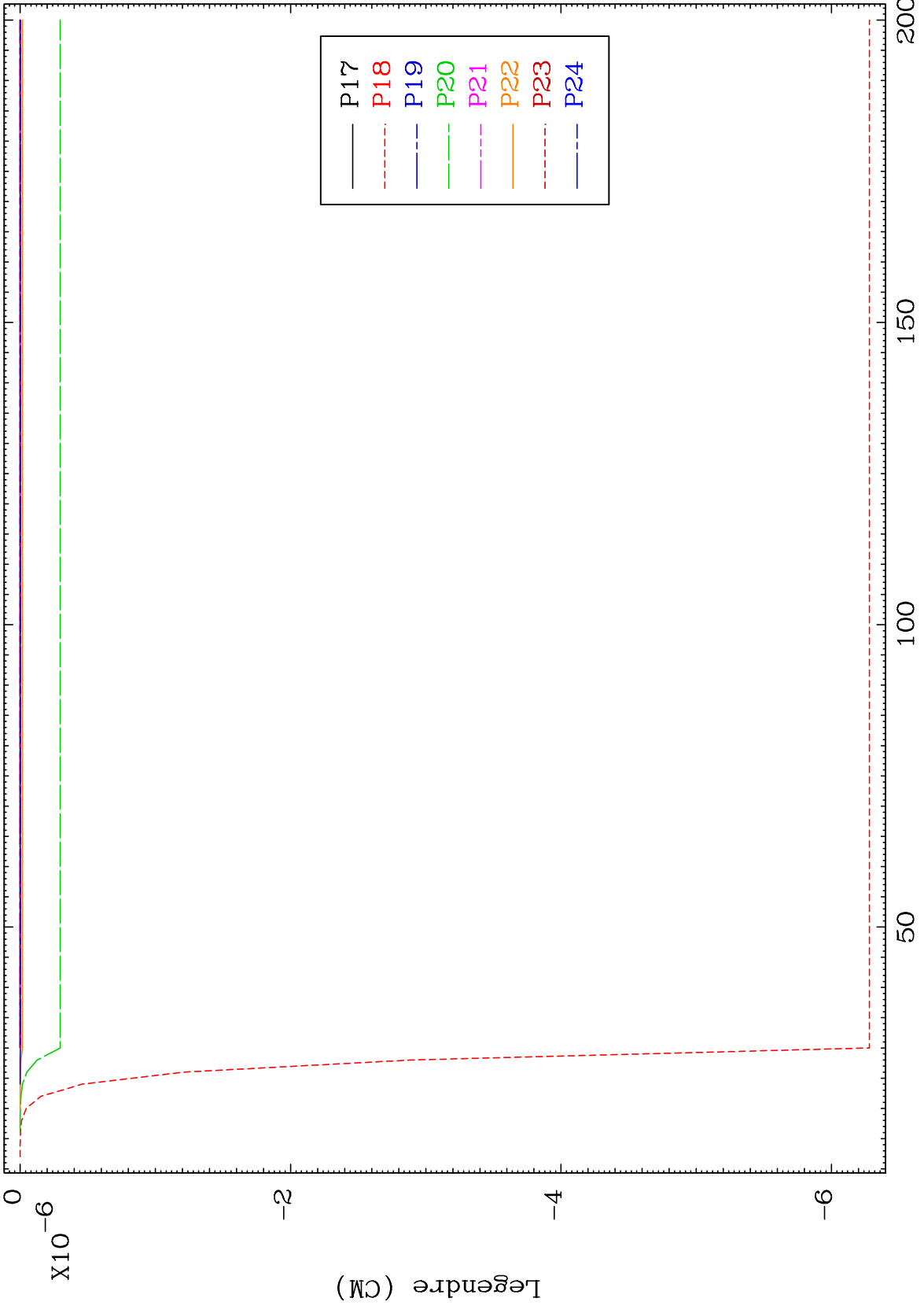
51 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 59 (n,n') Level Legendre Coefficients 40-Zr-92

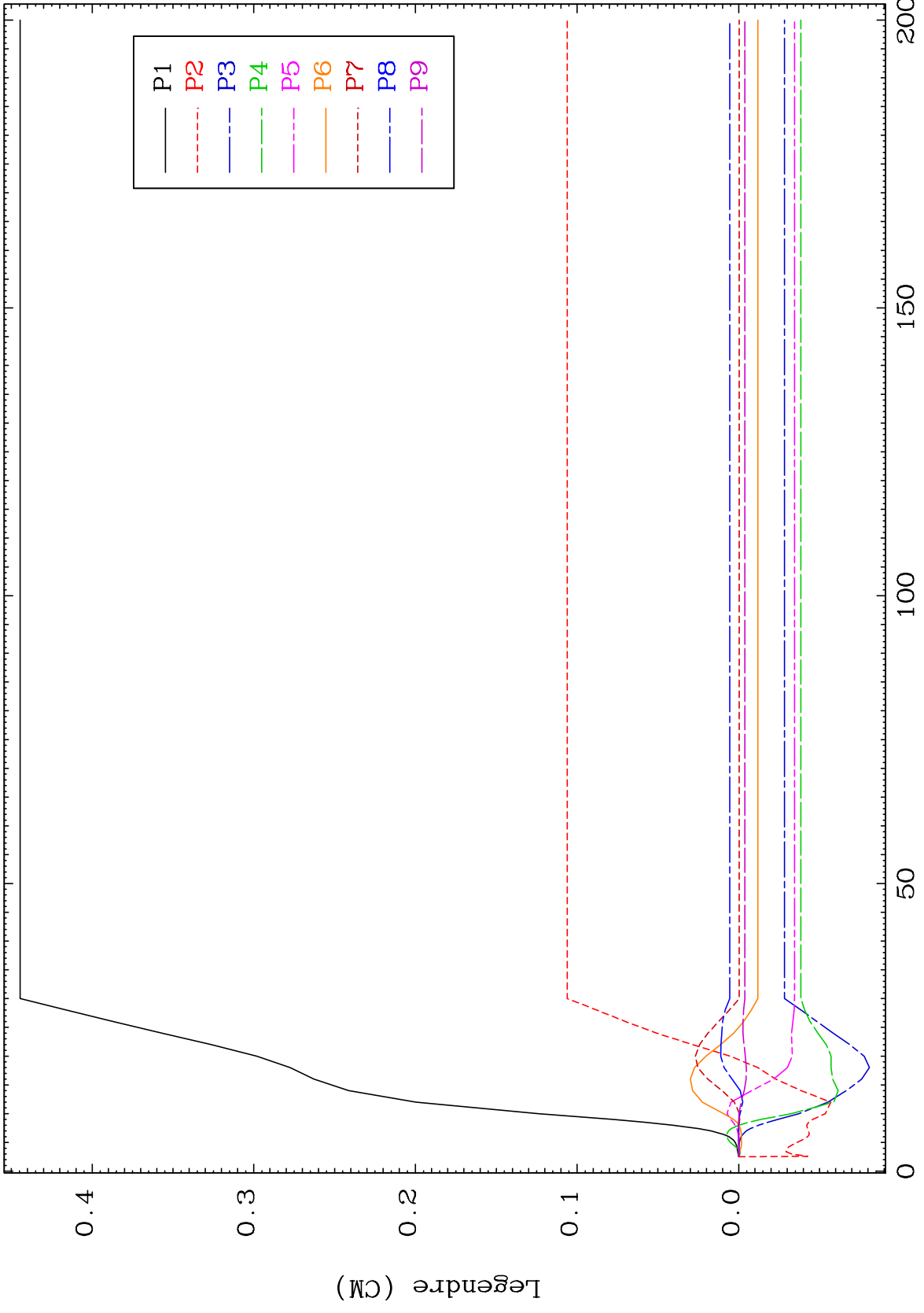


52 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 59 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031 MT= 60 (n,n') Level Legendre Coefficients 40-Zr-92

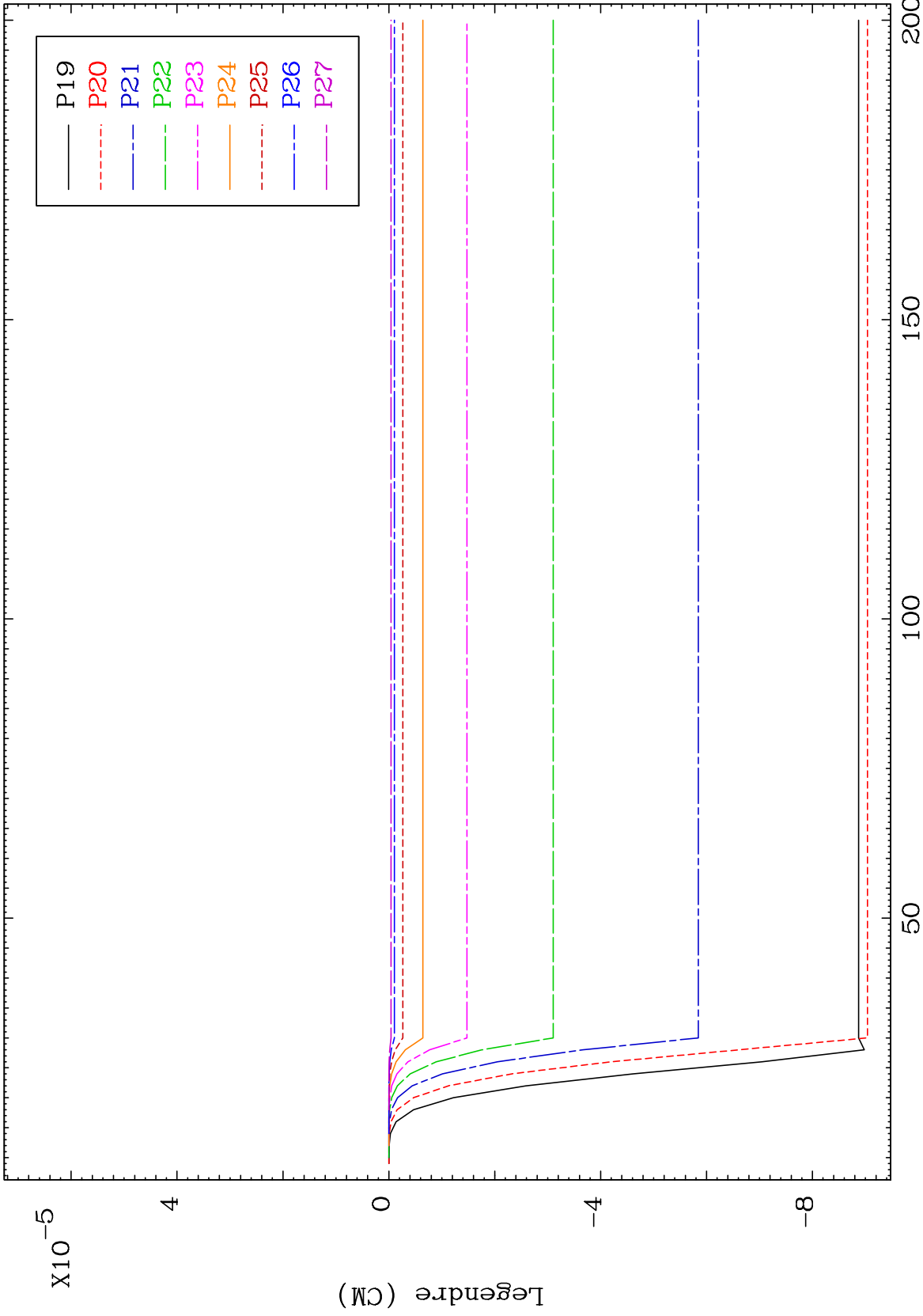


54 40-Zr-92

MAT 4031

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

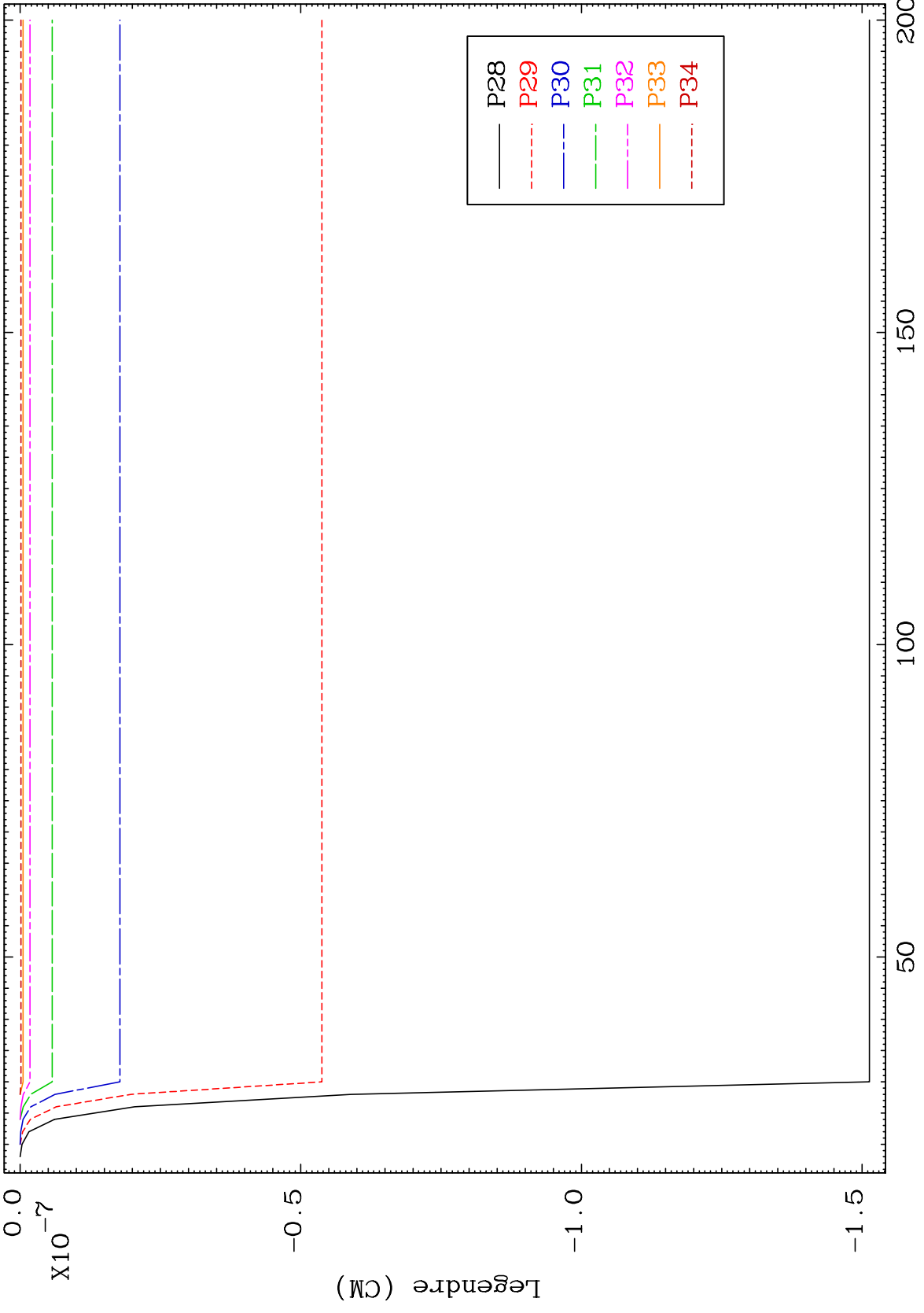
40-Zr-92



56

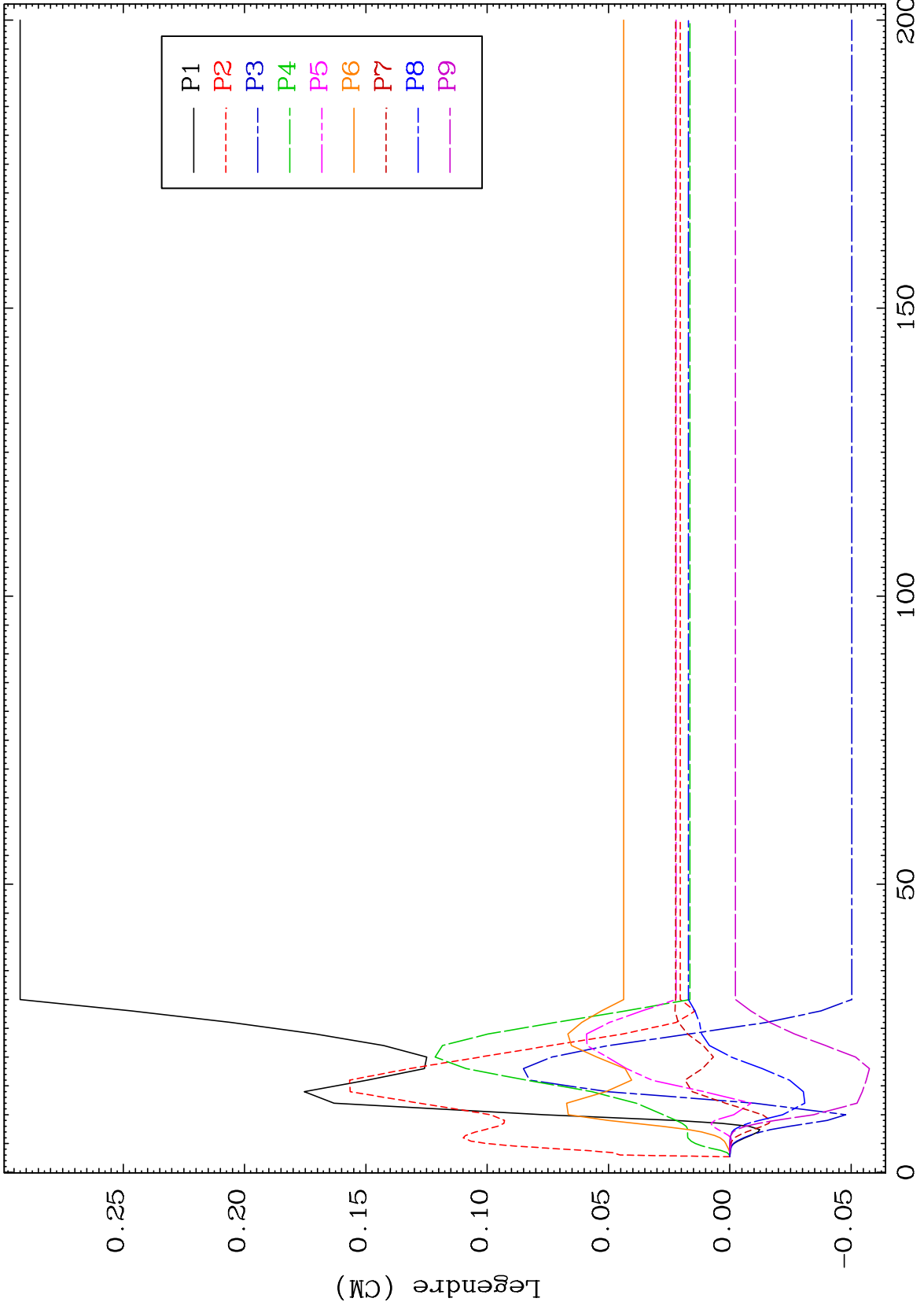
40-Zr-92

MAT 4031 MT= 60 (n,n') Level Legendre Coefficients 40-Zr-92



57 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 61 (n,n') Level Legendre Coefficients 40-Zr-92

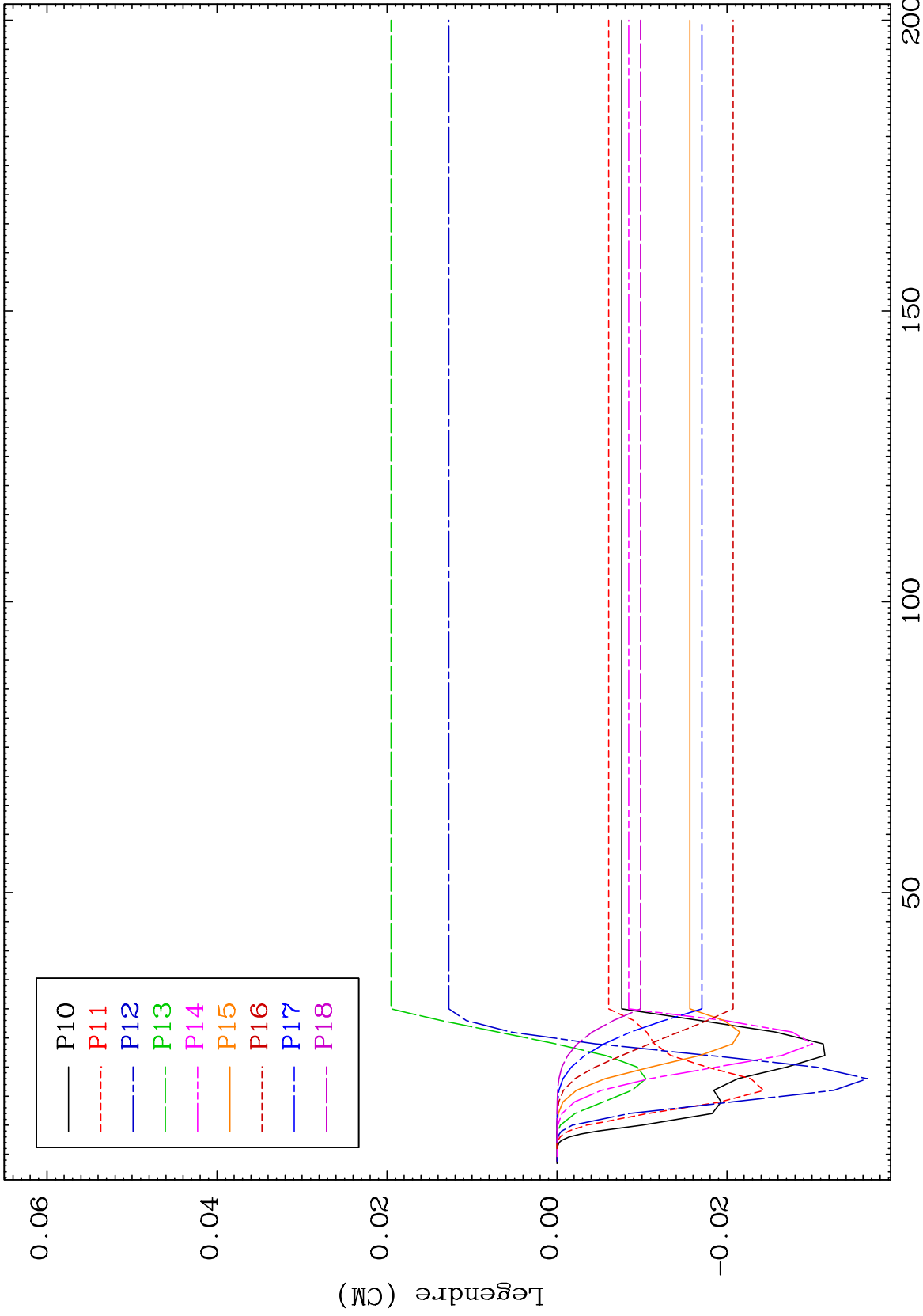


58 Incident Energy (MeV) 40-Zr-92

MAT 4031

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

40-Zr-92

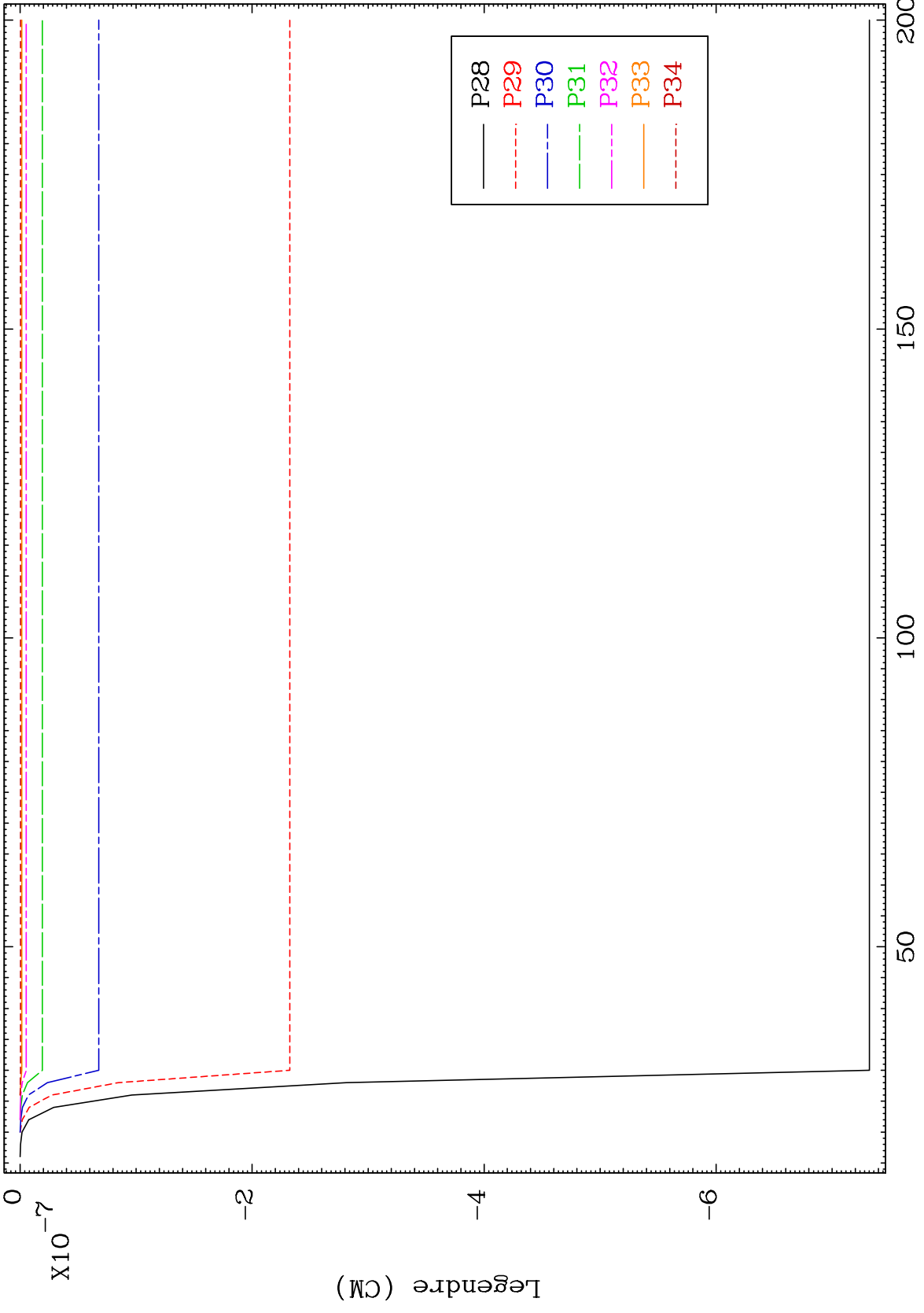


59

Incident Energy (MeV)

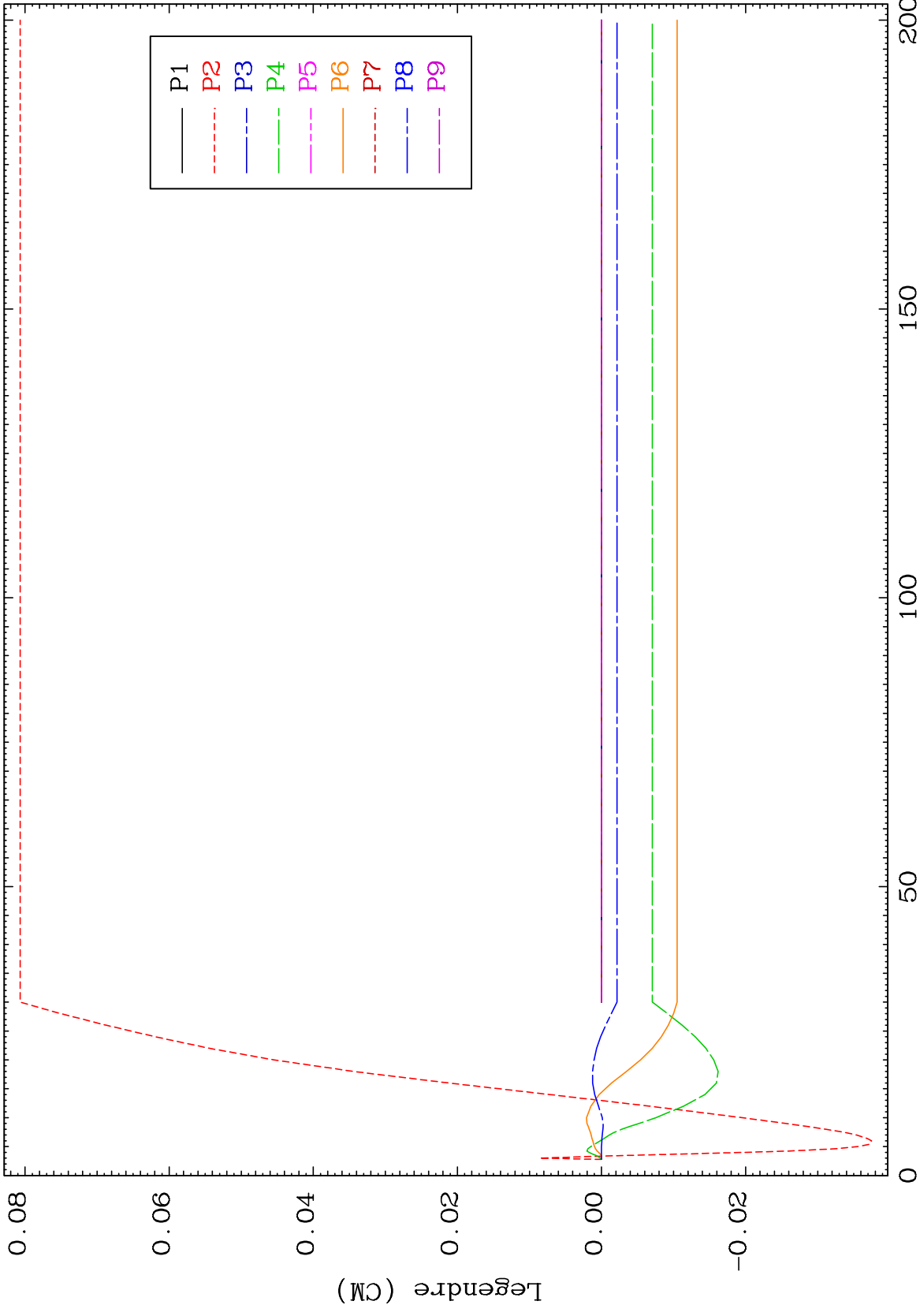
40-Zr-92

MAT 4031 MT= 61 (n,n') Level Legendre Coefficients 40-Zr-92



61 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 62 (n,n') Level Legendre Coefficients 40-Zr-92

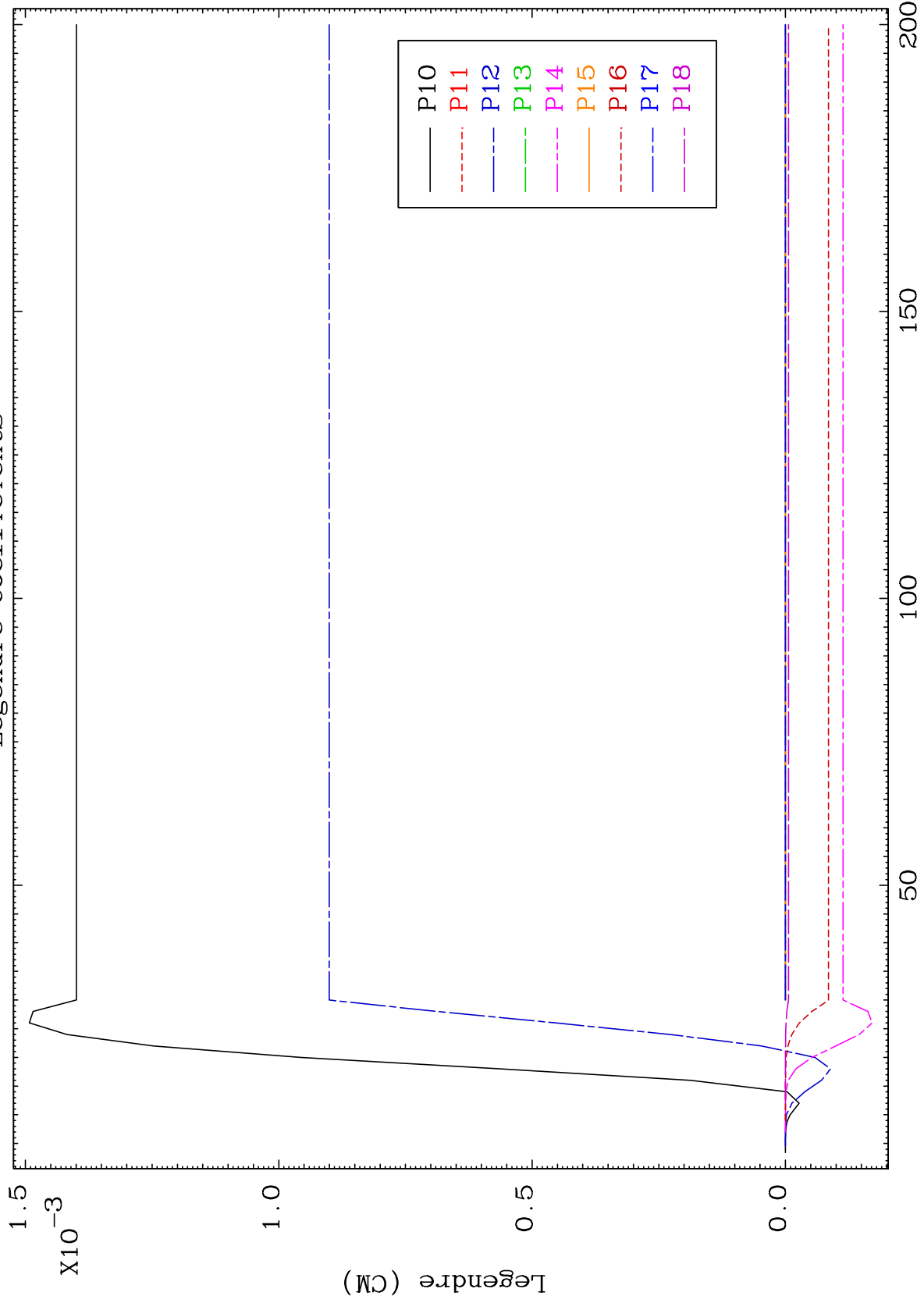


62 40-Zr-92

MAT 4031

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

40-Zr-92

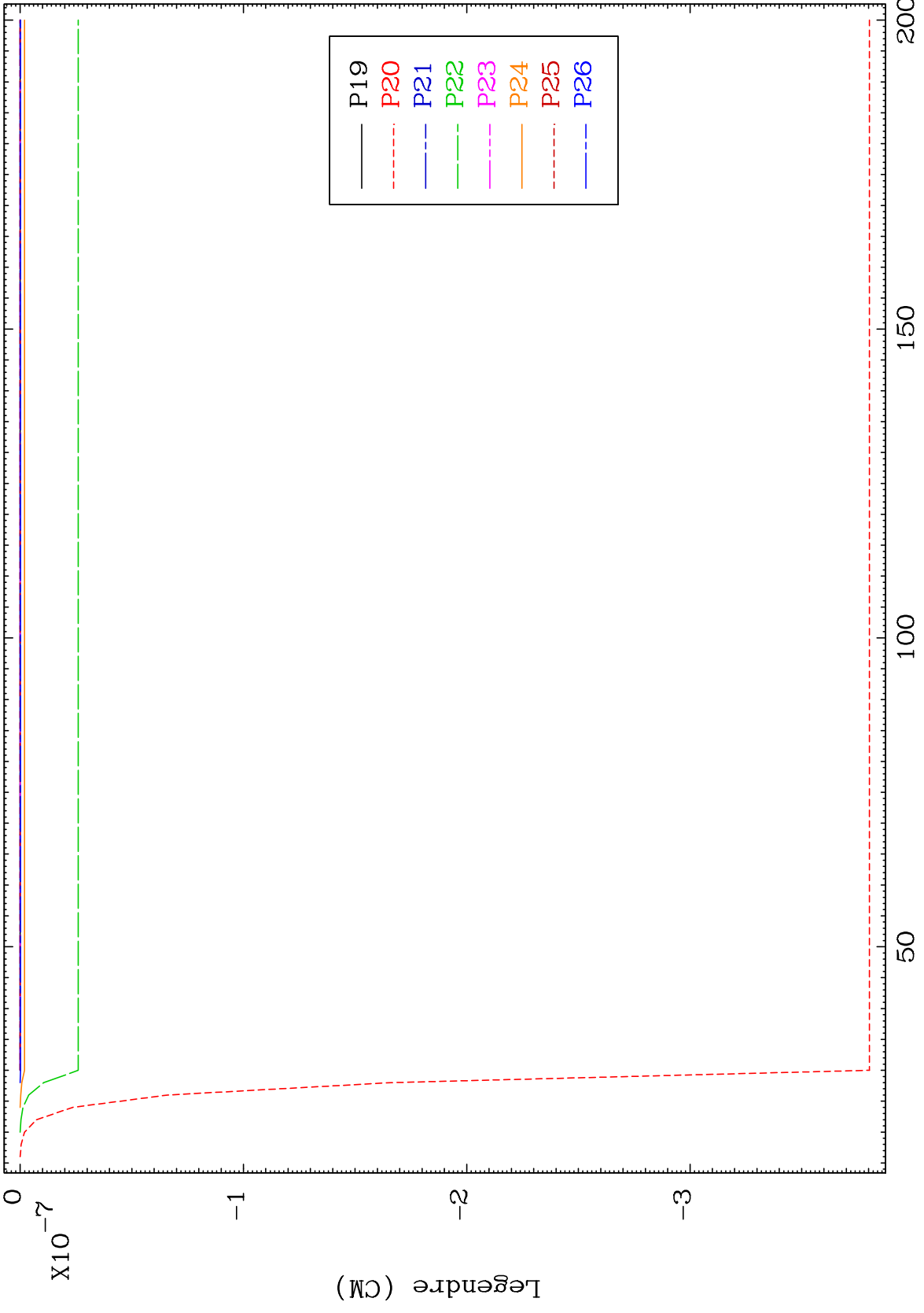


63

Incident Energy (MeV)

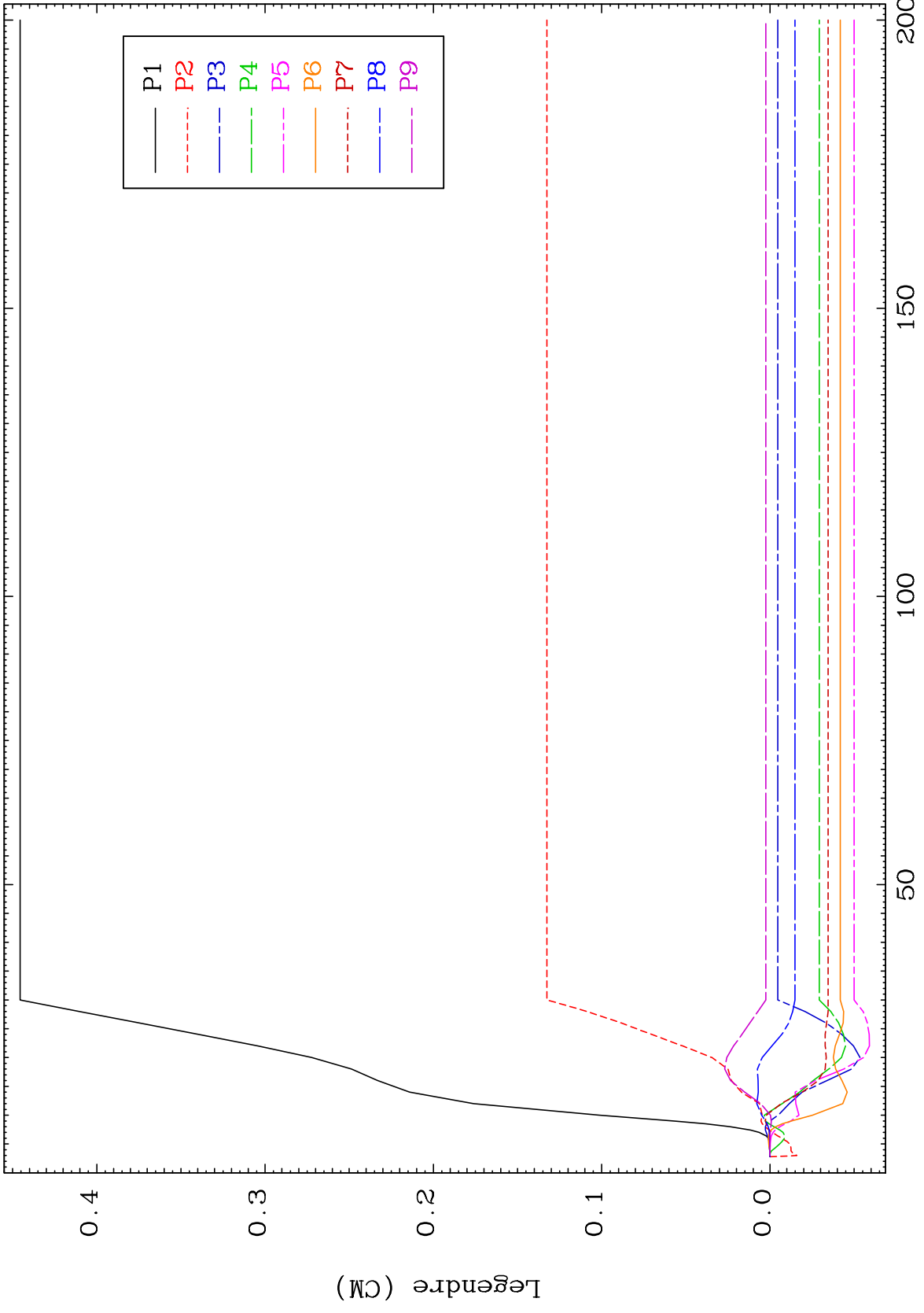
40-Zr-92

MAT 4031 MT= 62 (n,n') Level Legendre Coefficients 40-Zr-92

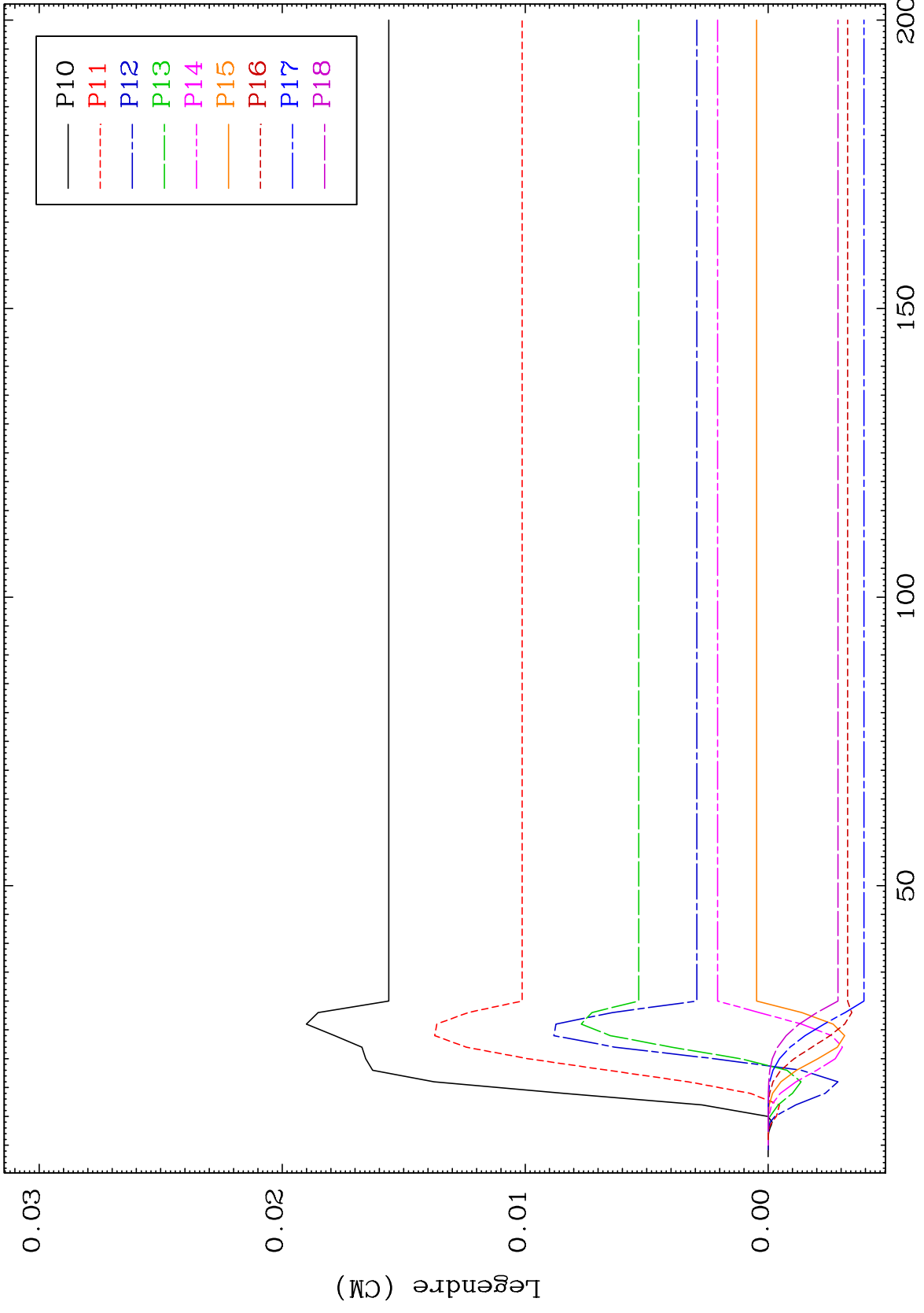


64 40-Zr-92

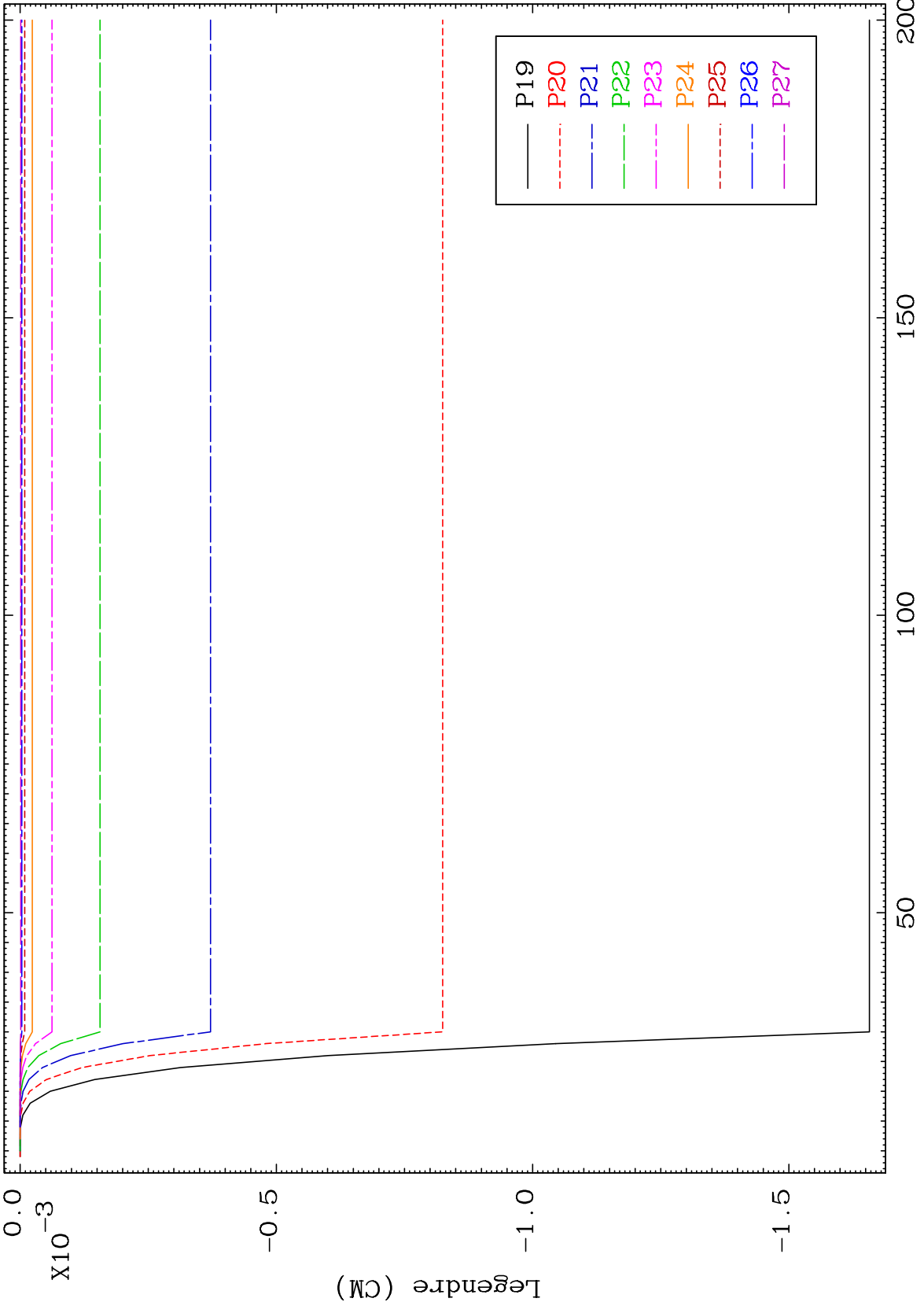
MAT 4031 MT= 63 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031 MT= 63 (n,n') Level Legendre Coefficients 40-Zr-92

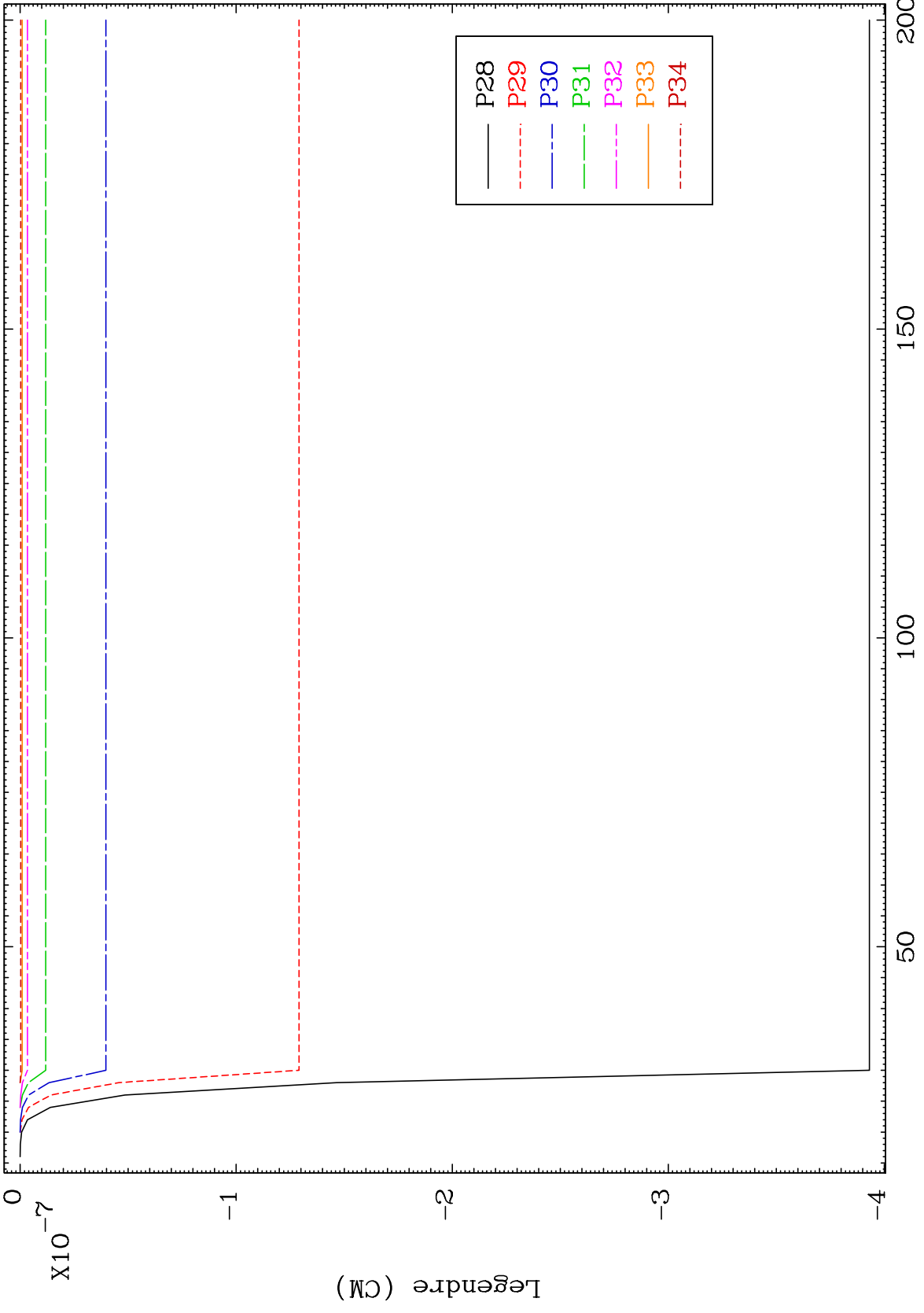


MAT 4031 MT= 63 (n,n') Level Legendre Coefficients 40-Zr-92

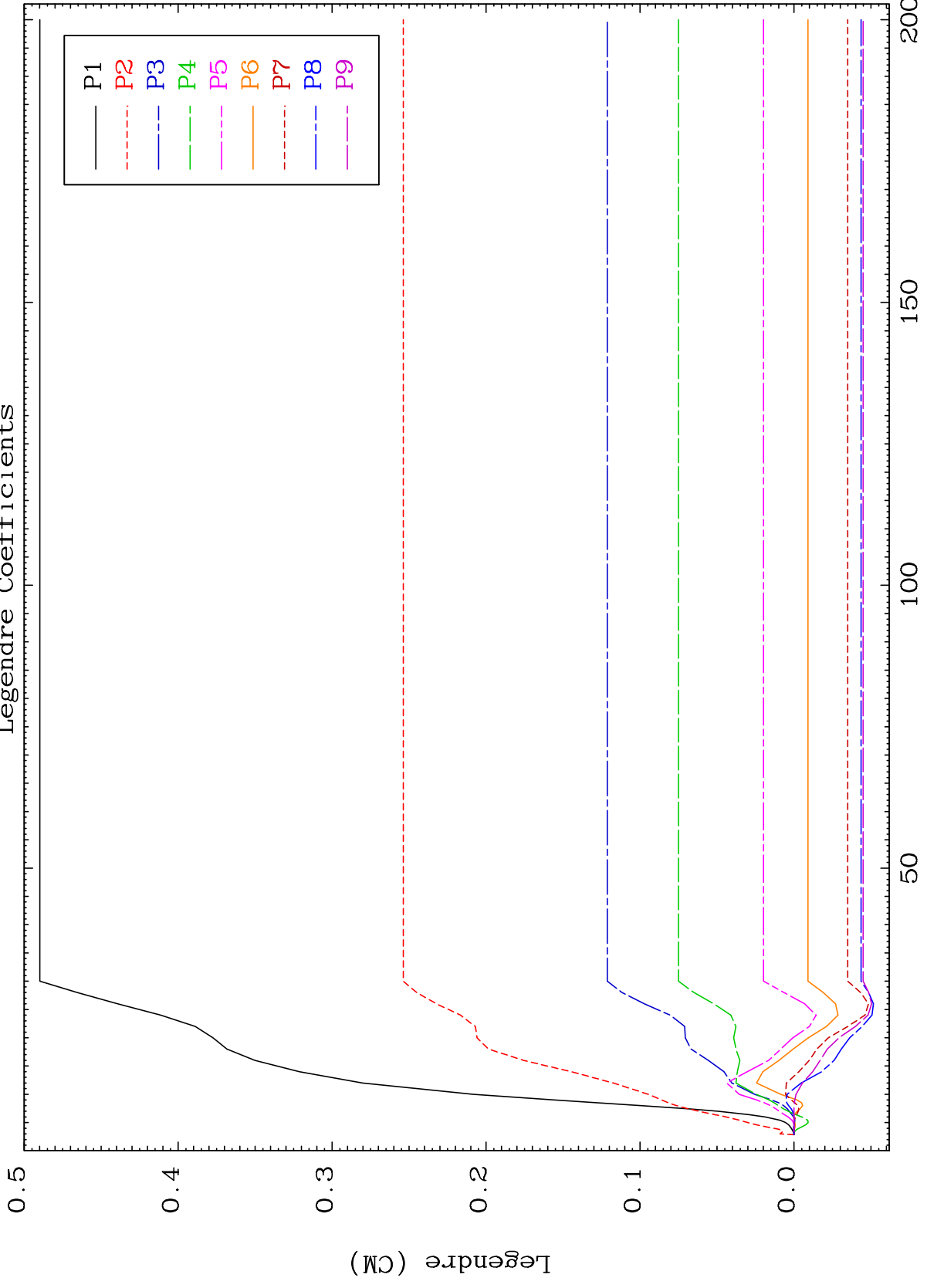


67 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 63 (n,n') Level Legendre Coefficients 40-Zr-92



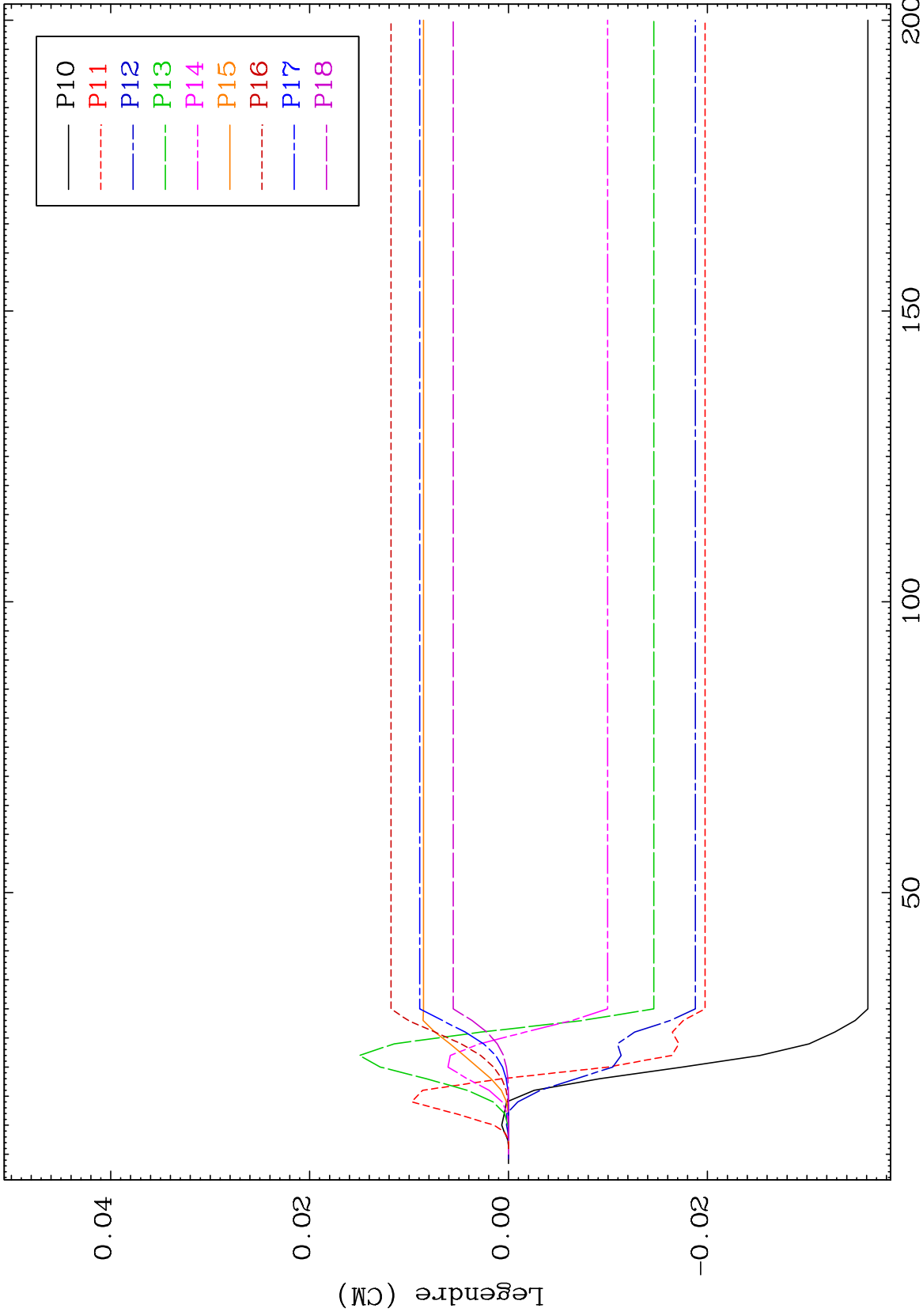
MAT 4031 MT= 64 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031

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

40-Zr-92

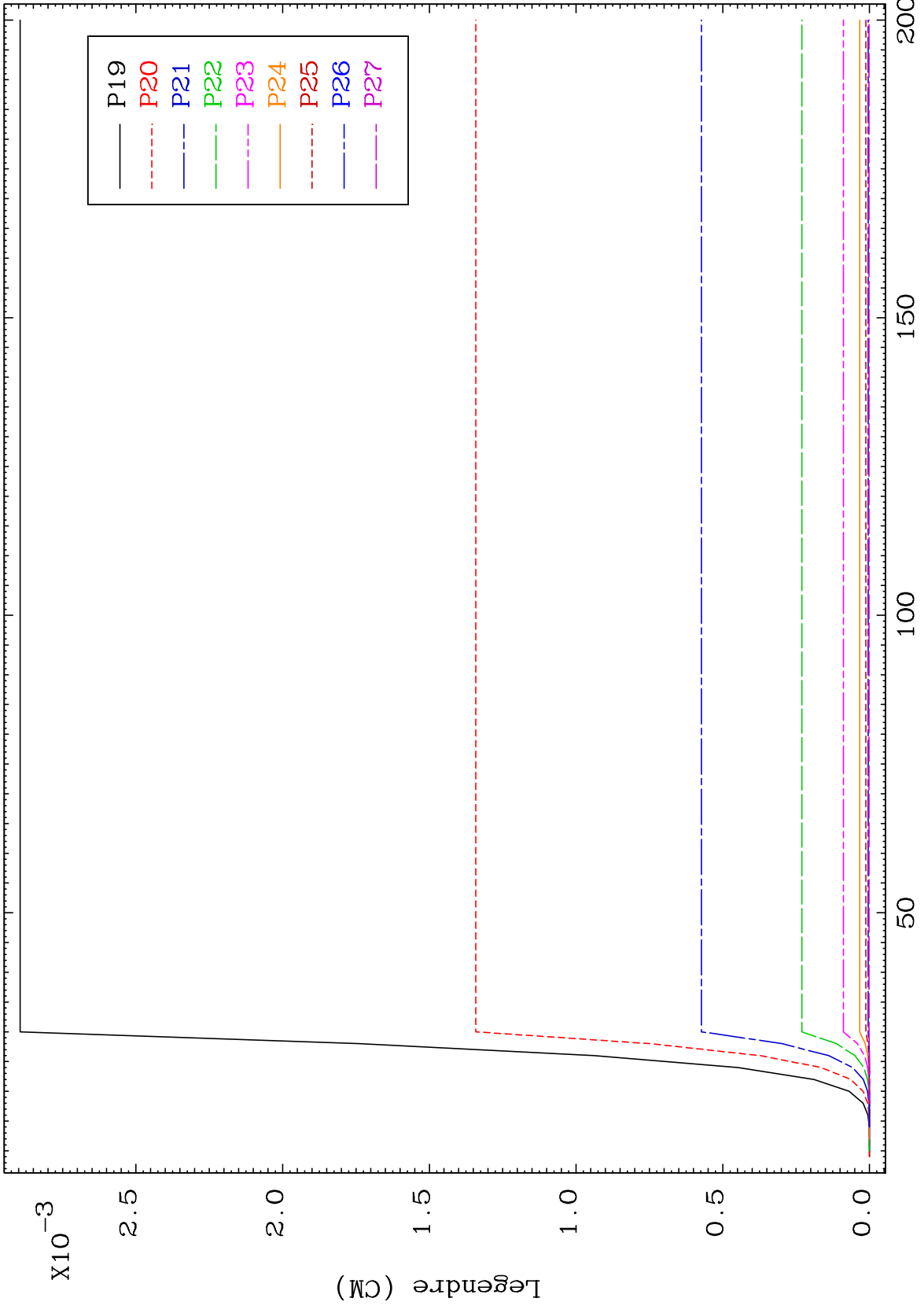


70

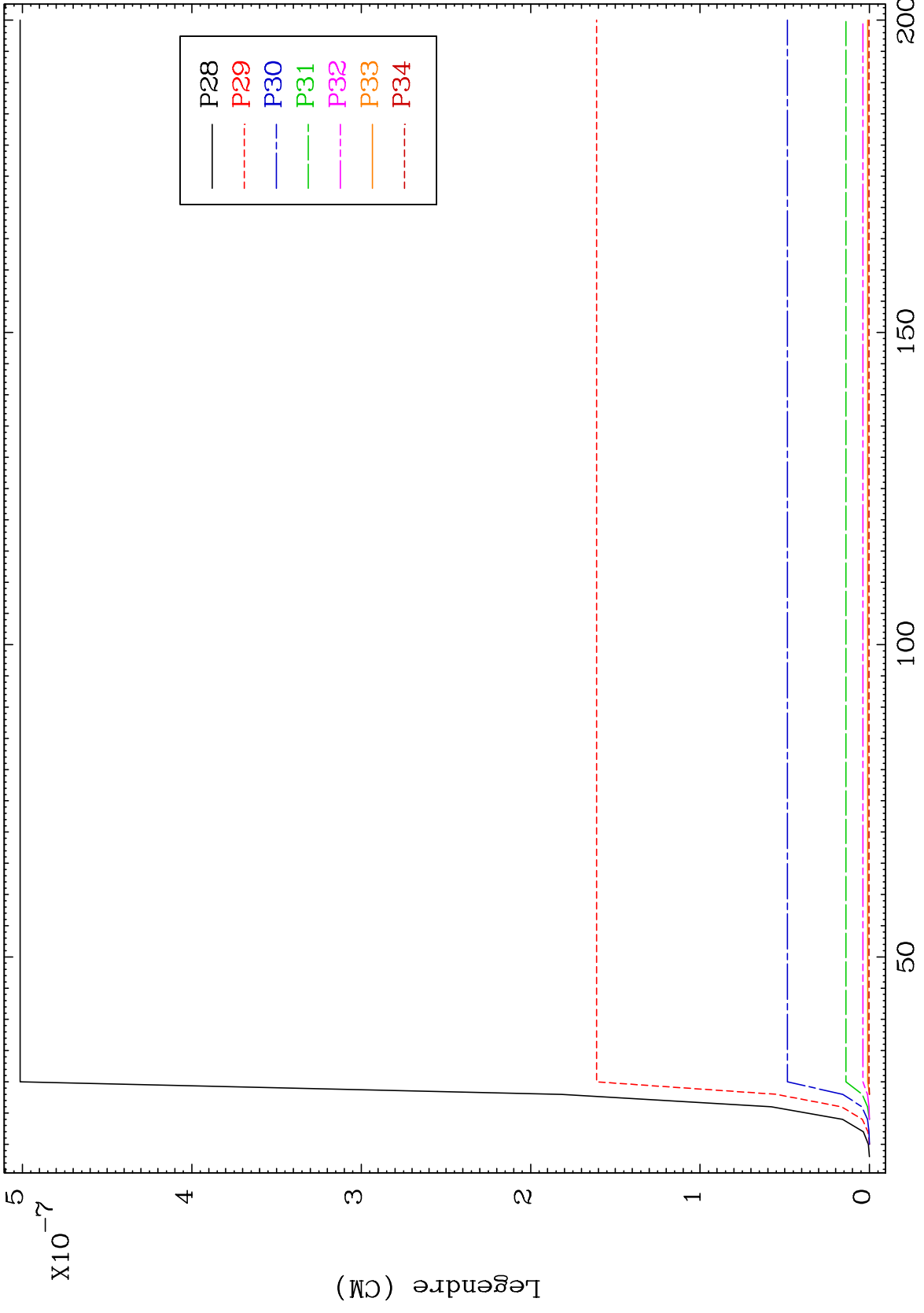
Incident Energy (MeV)

40-Zr-92

MAT 4031 MT= 64 (n,n') Level Legendre Coefficients 40-Zr-92

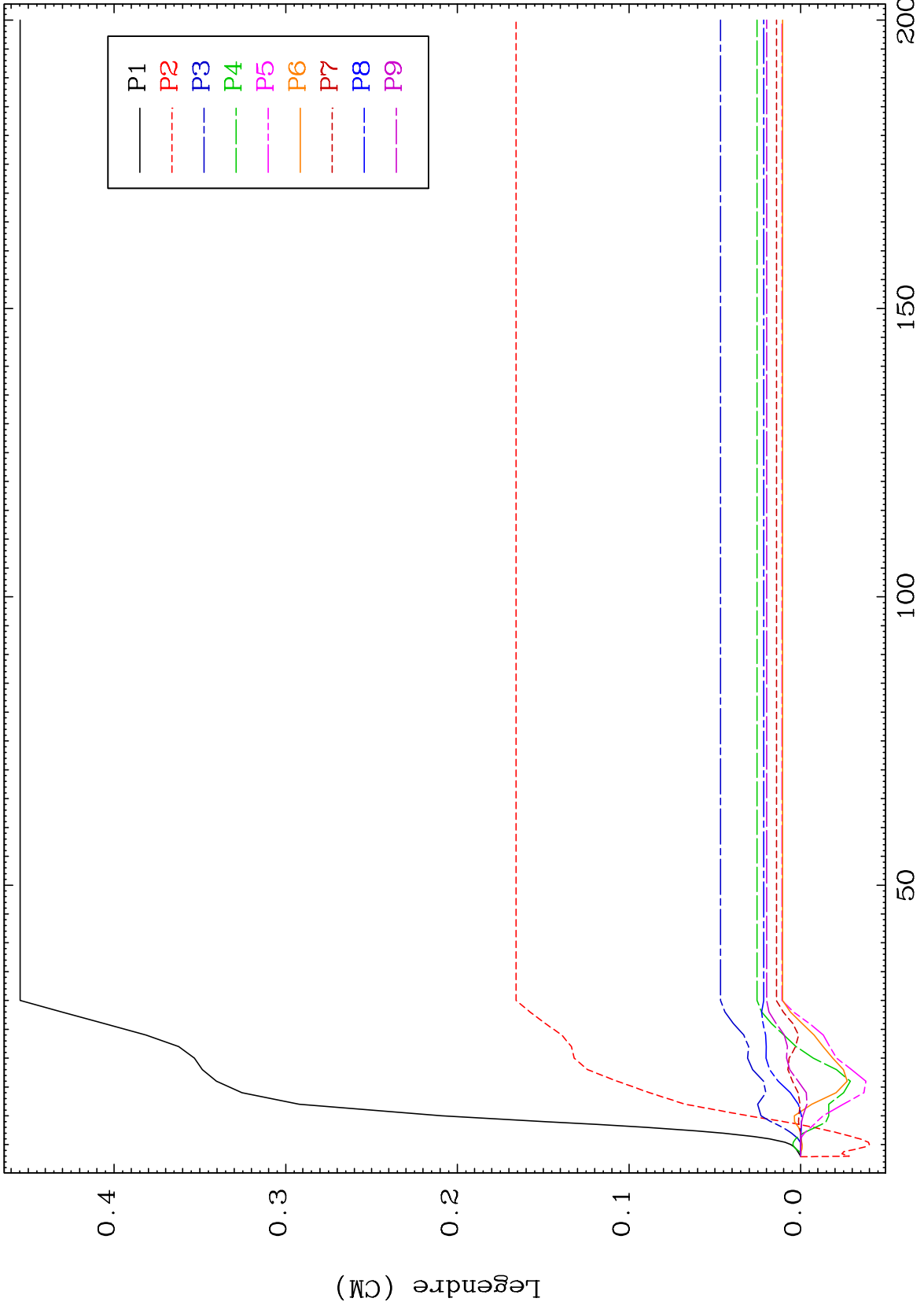


MAT 4031 MT= 64 (n,n') Level Legendre Coefficients 40-Zr-92



72 40-Zr-92

MAT 4031 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-92

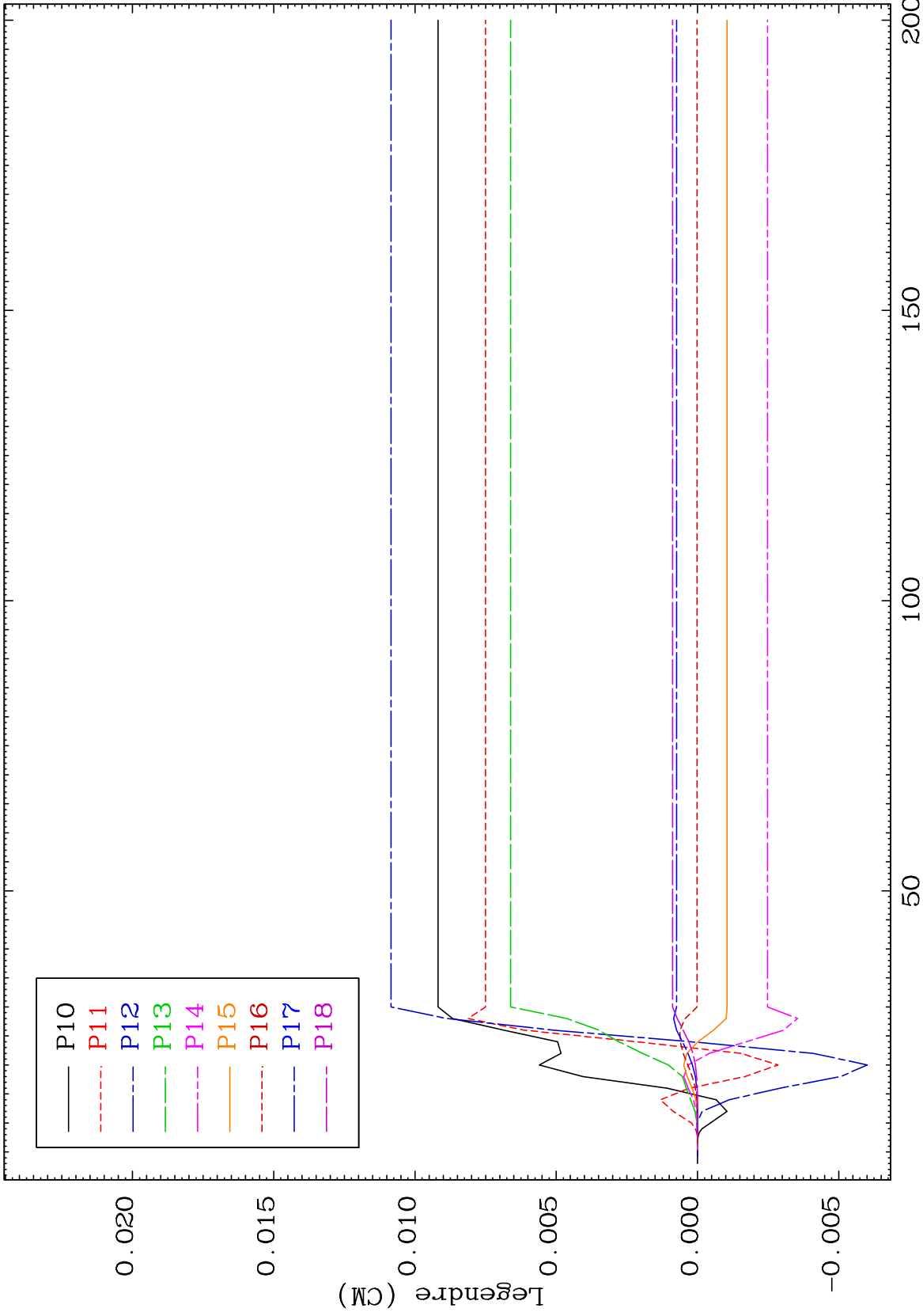


73 Incident Energy (MeV) 40-Zr-92

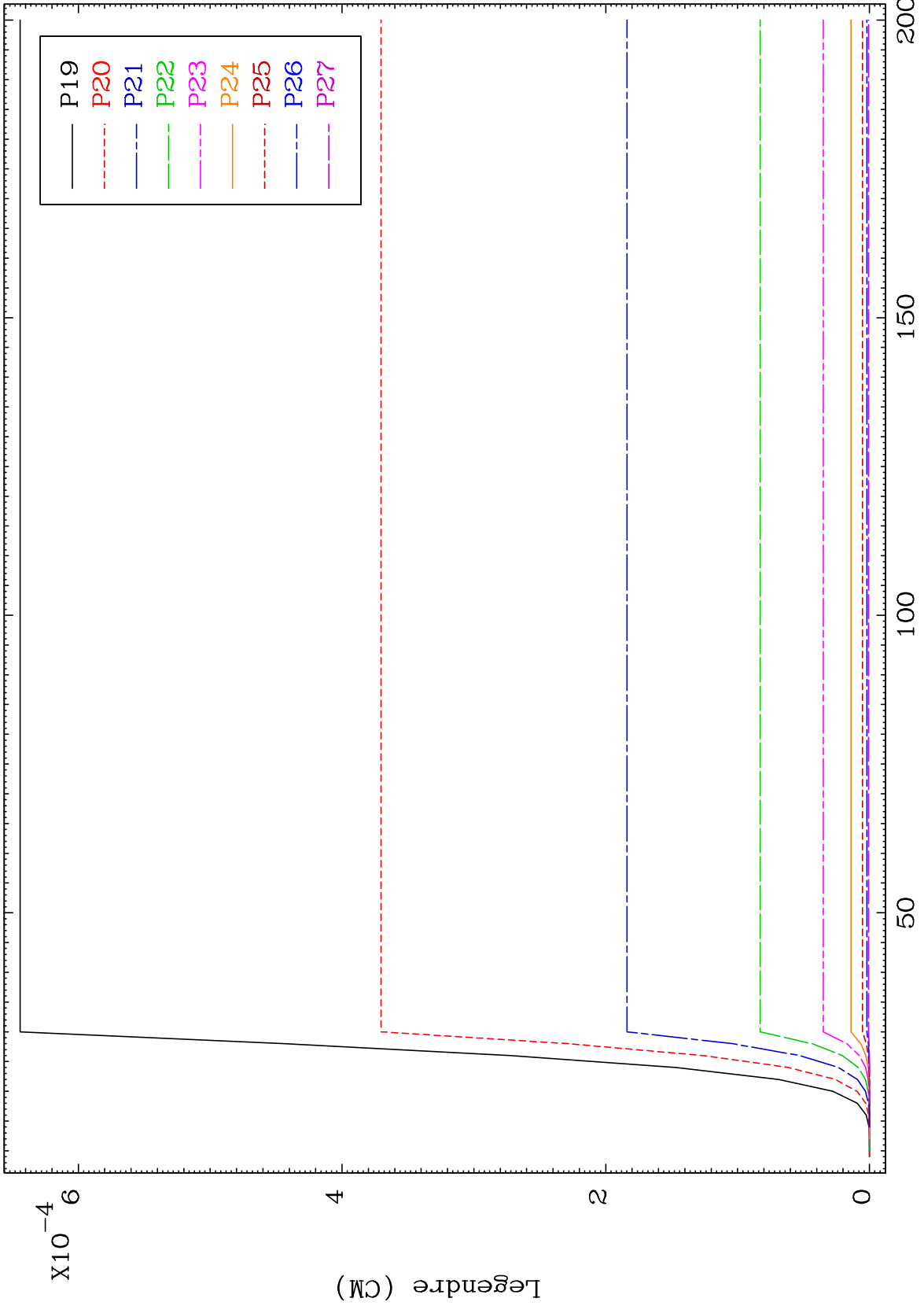
MAT 4031

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

40-Zr-92

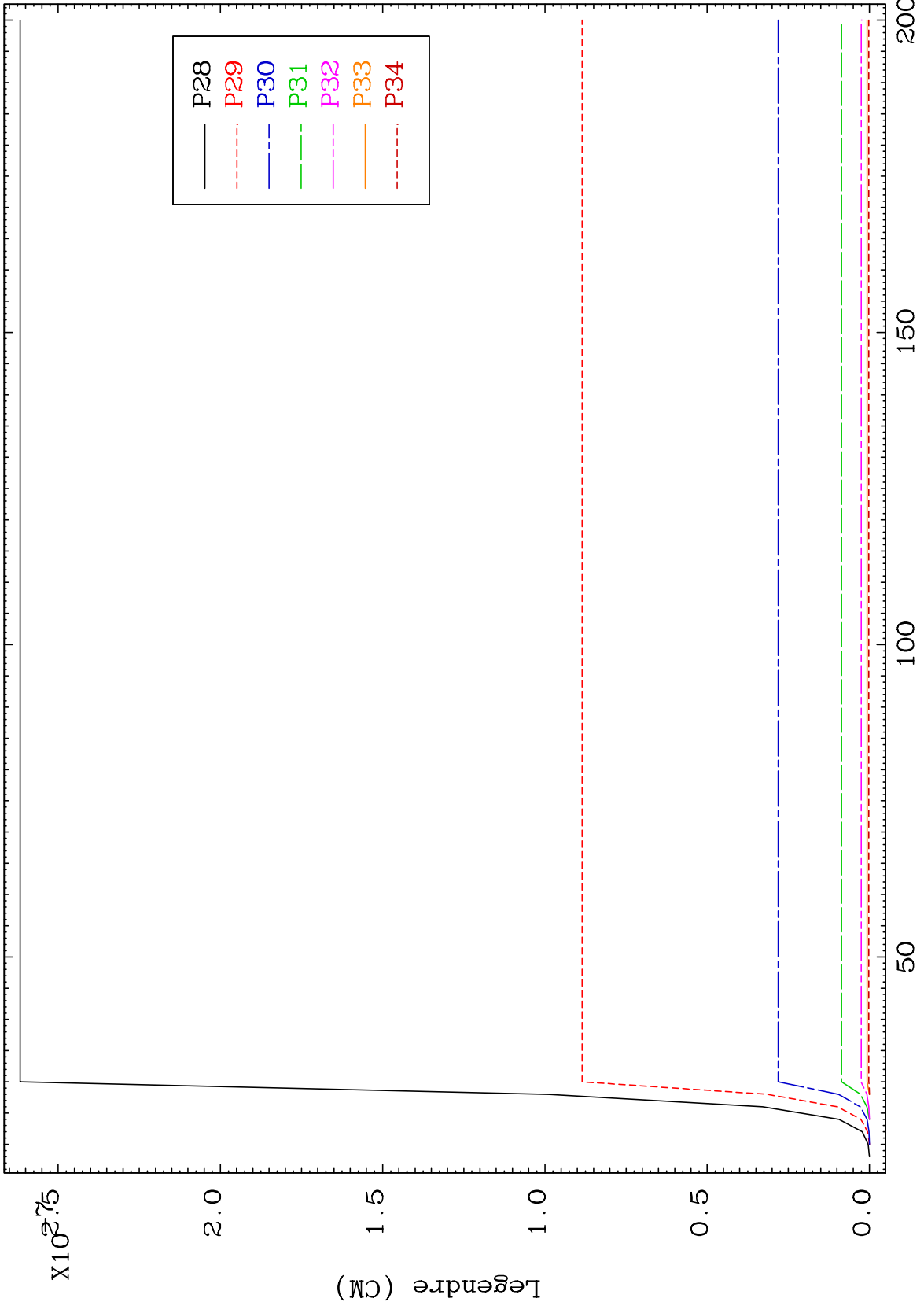


MAT 4031 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-92



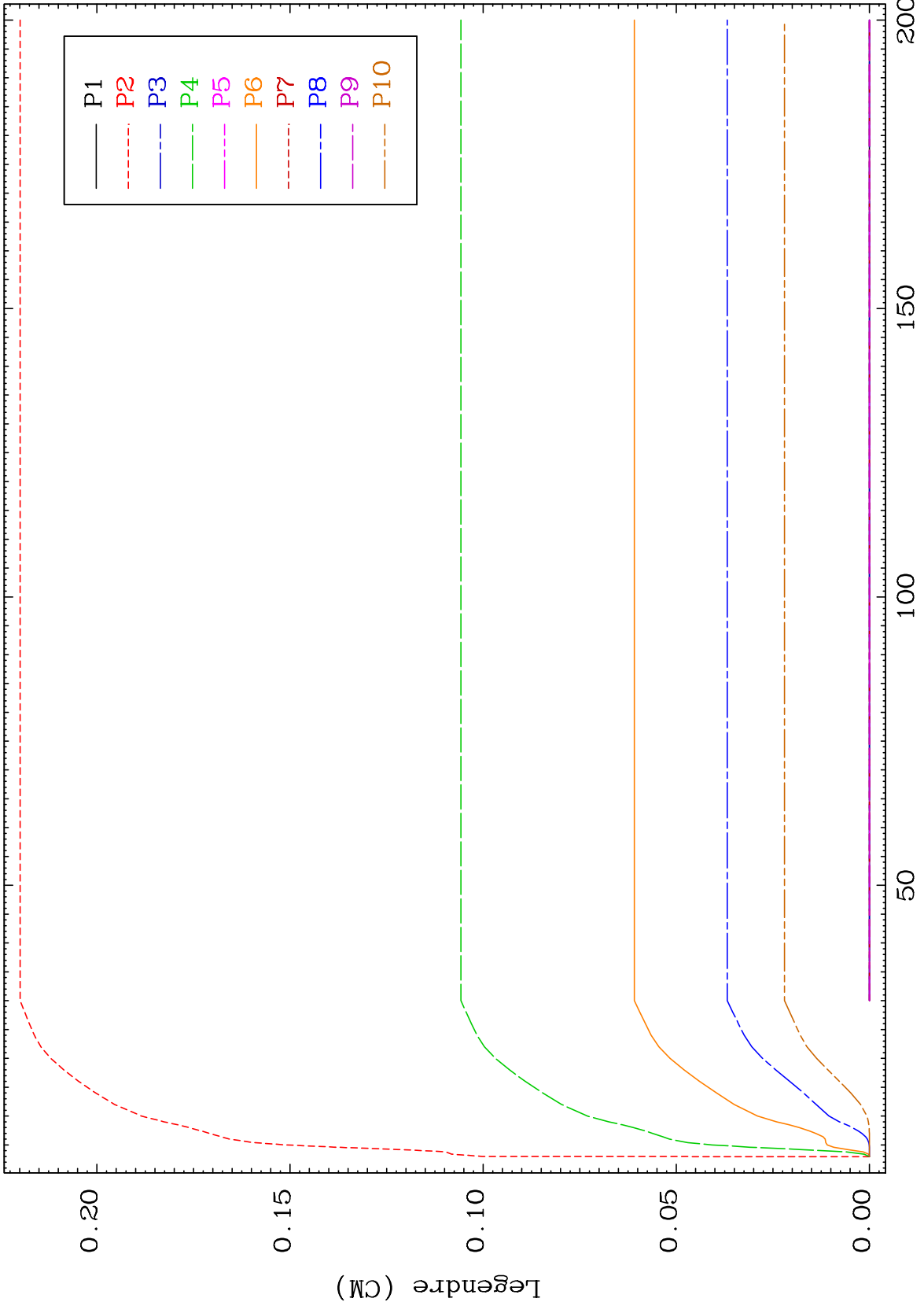
75 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-92

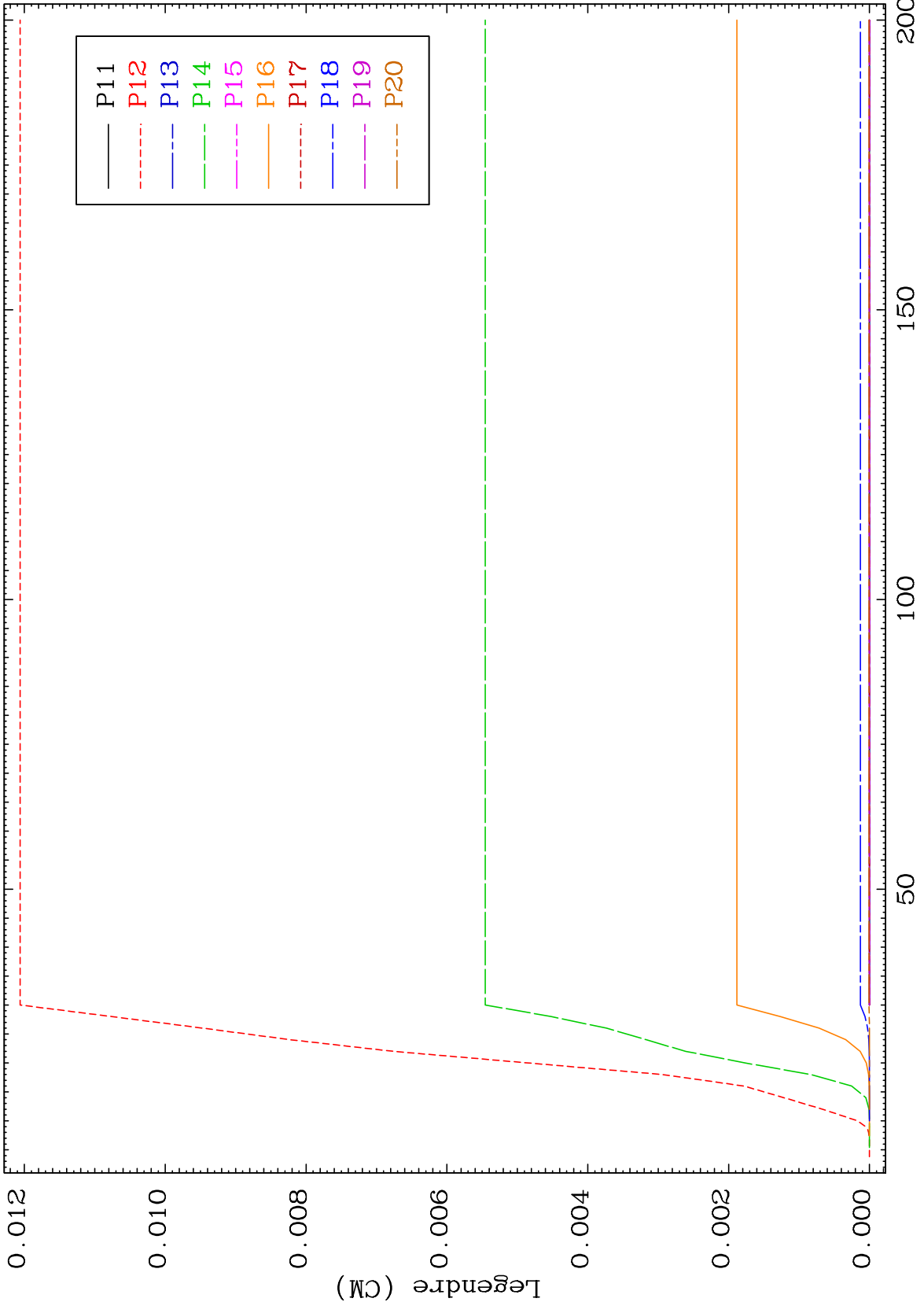


76 50 100 150 200 40-Zr-92

MAT 4031 MT= 66 (n,n') Level Legendre Coefficients 40-Zr-92

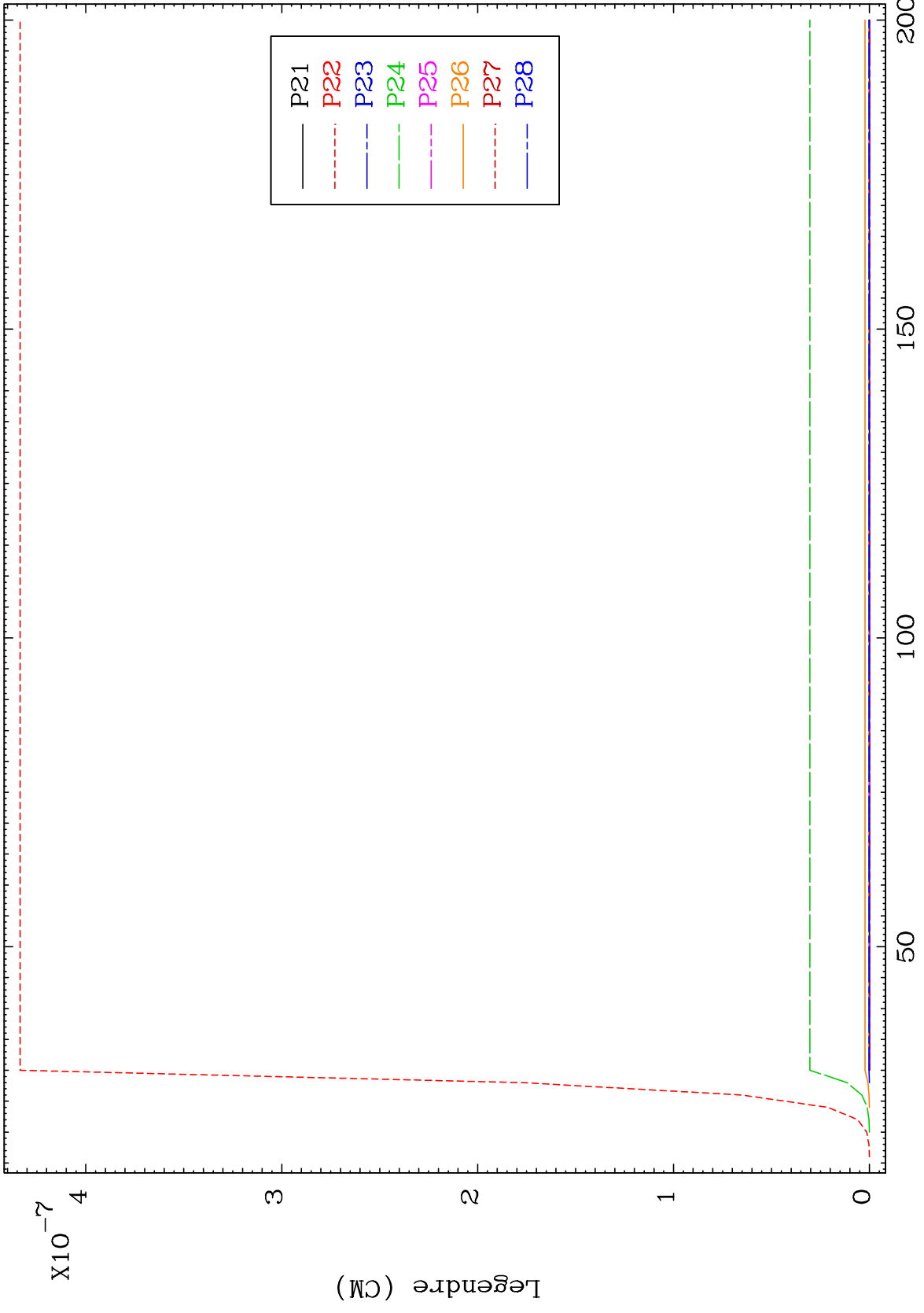


MAT 4031 MT= 66 (n,n') Level Legendre Coefficients 40-Zr-92

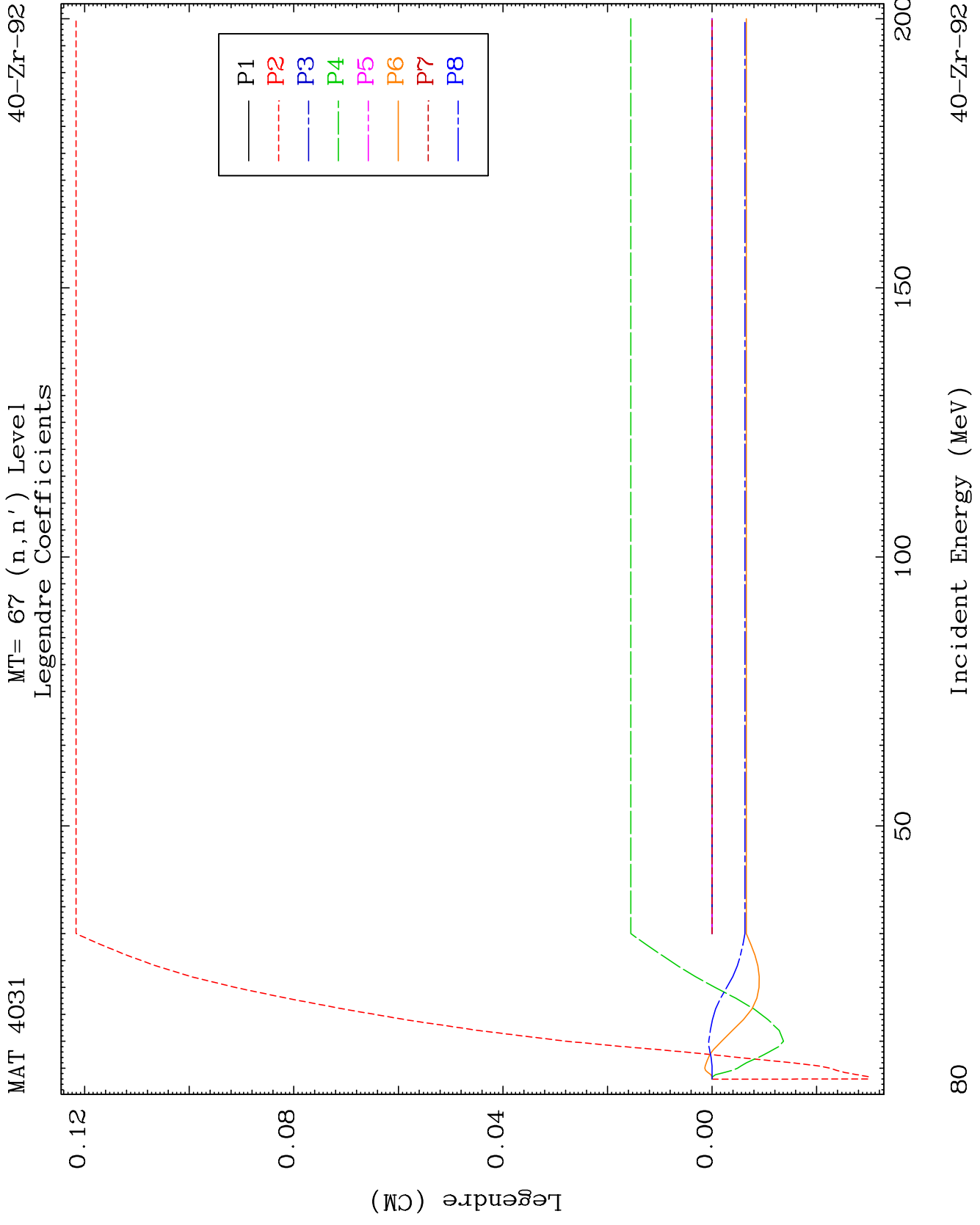


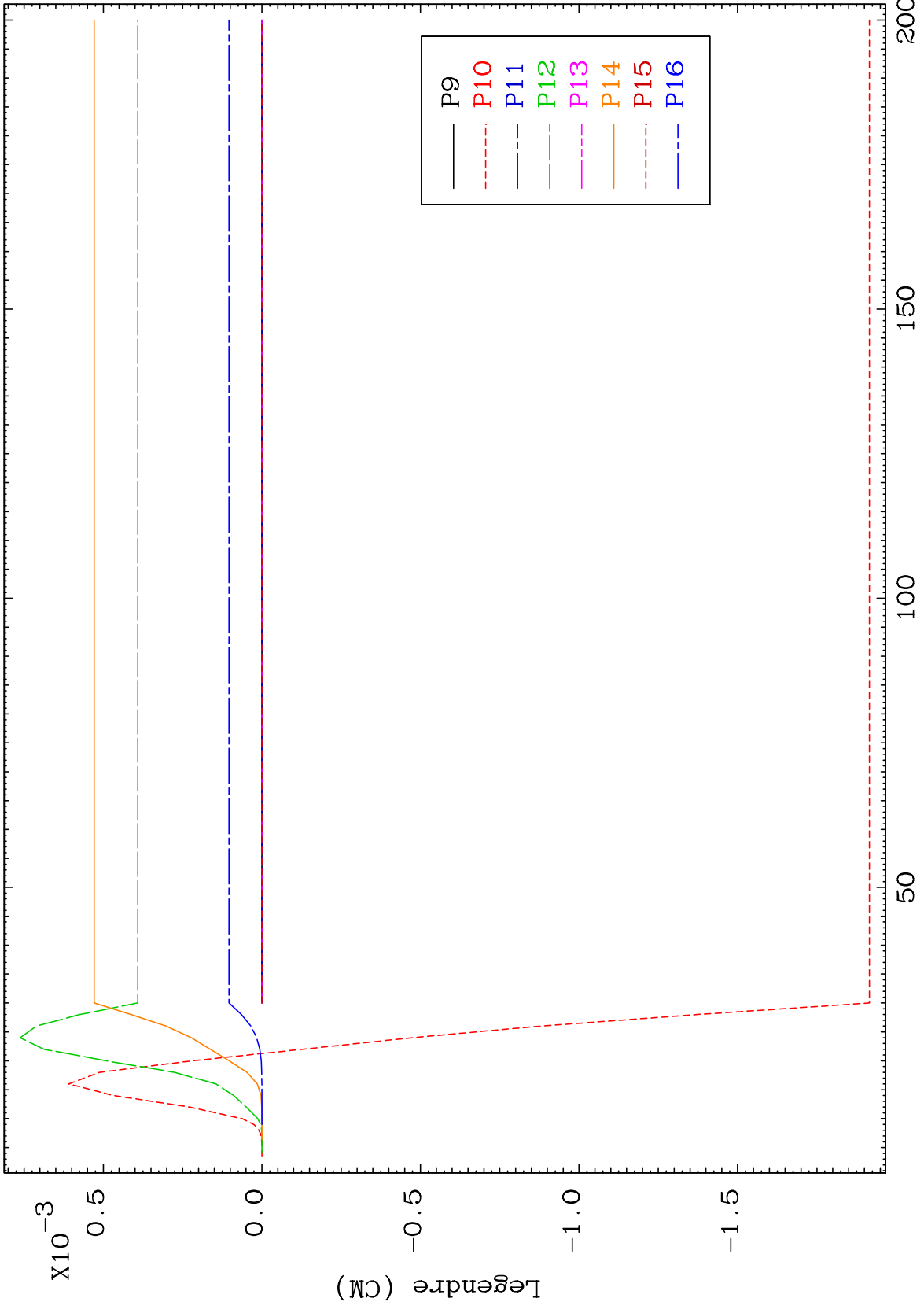
78 40-Zr-92

MAT 4031 MT= 66 (n,n') Level Legendre Coefficients 40-Zr-92

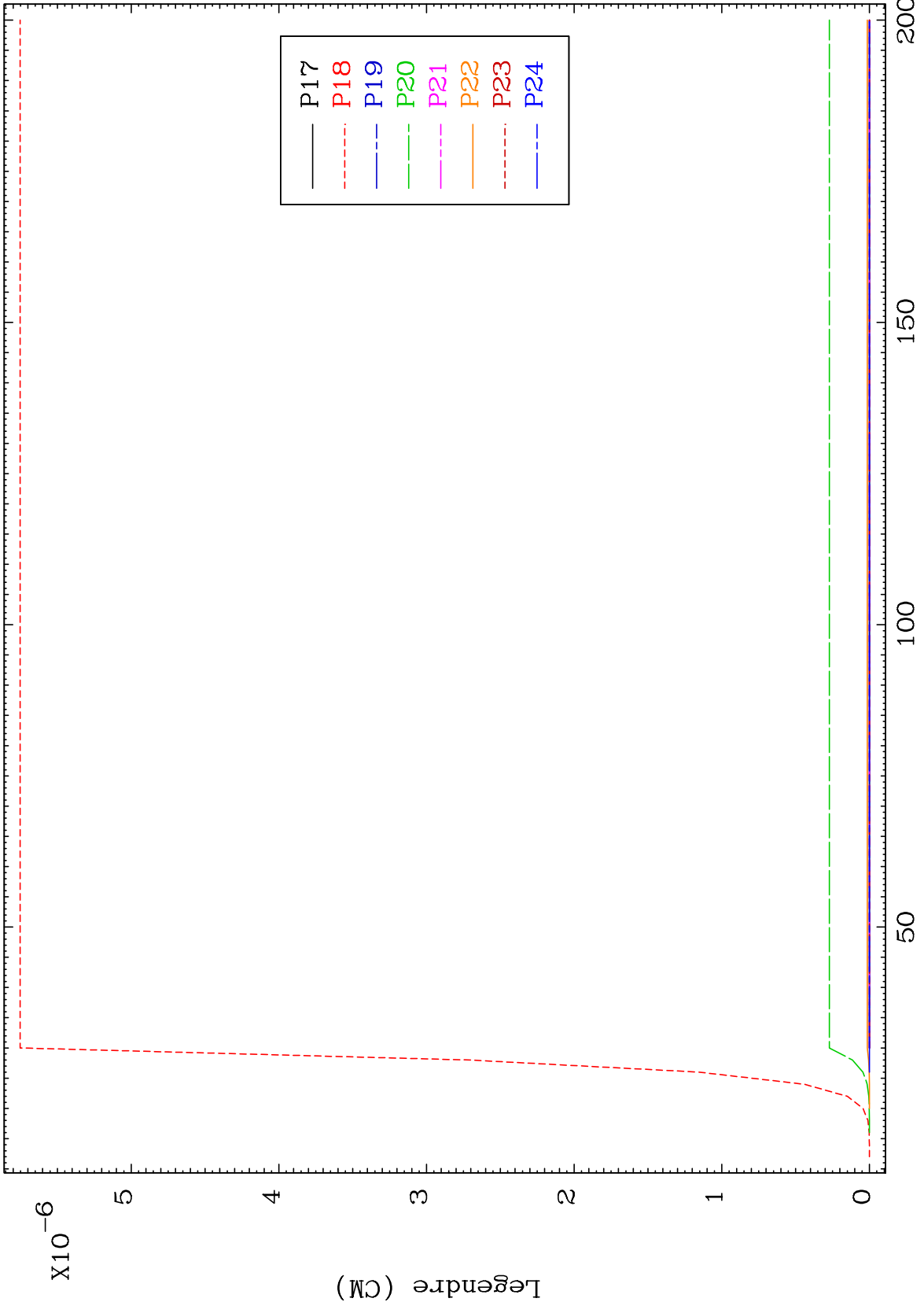


79 Incident Energy (MeV) 40-Zr-92





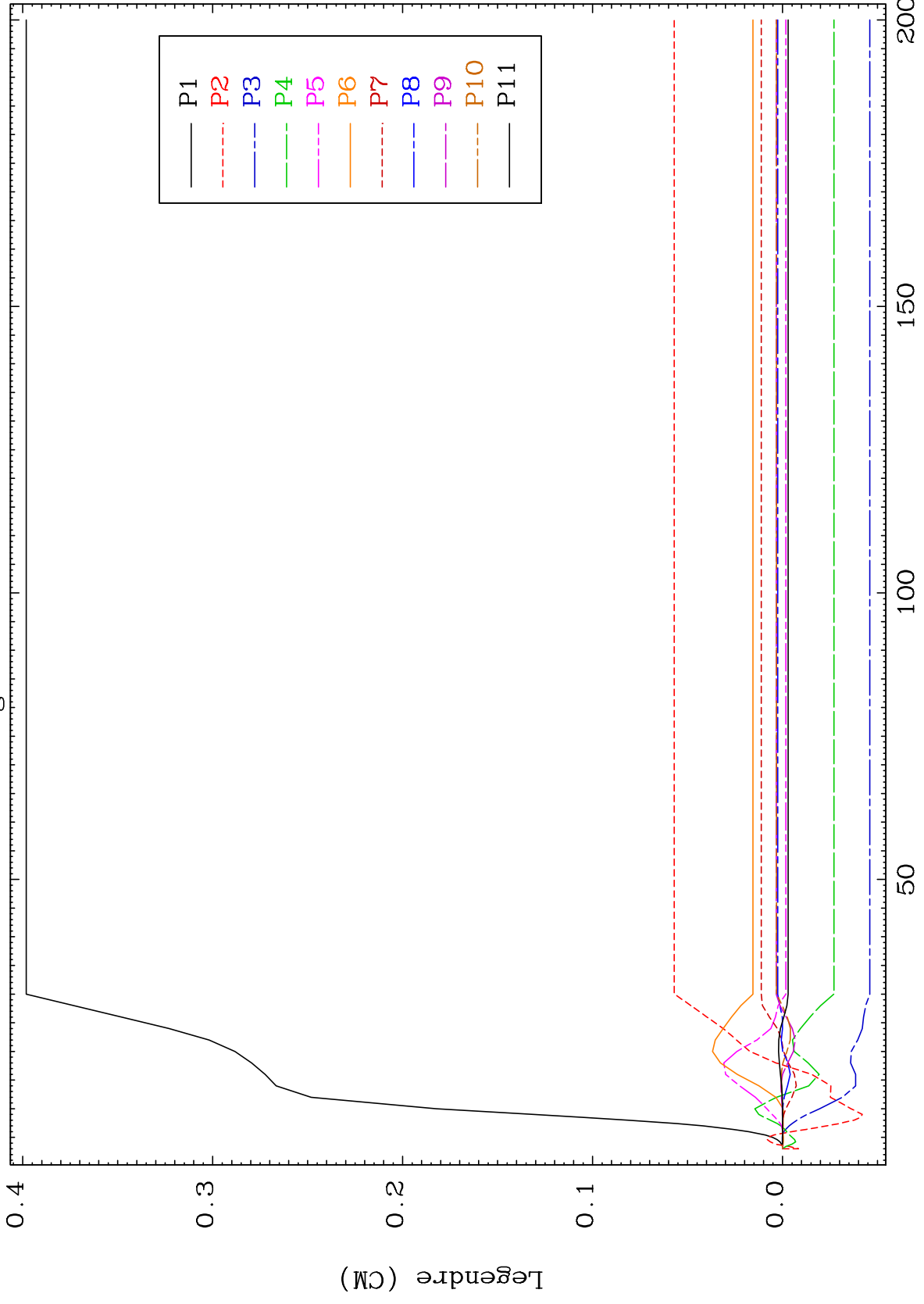
MAT 4031 MT= 67 (n,n') Level Legendre Coefficients 40-Zr-92



82 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 68 (n,n') Level Legendre Coefficients

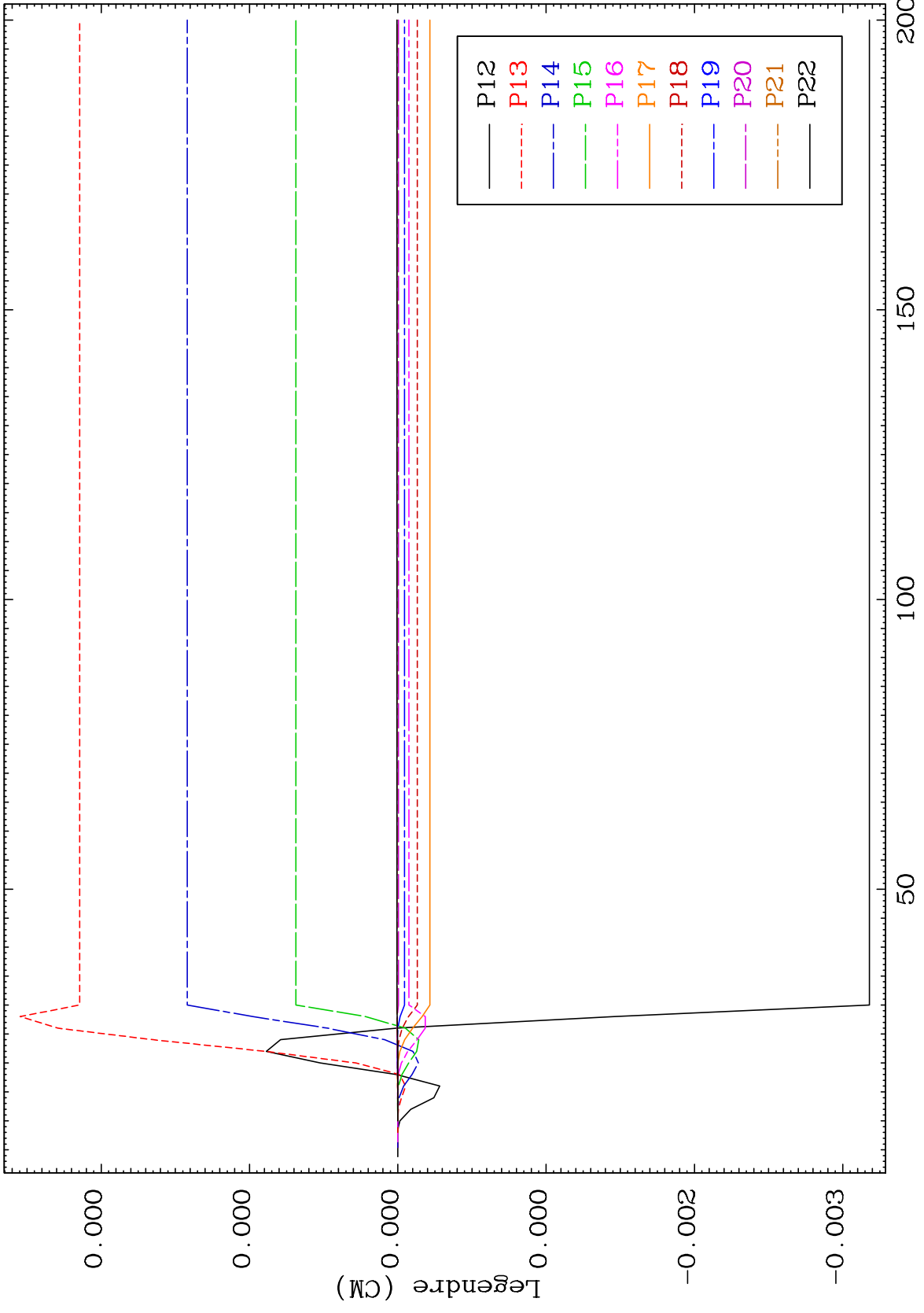
40-Zr-92



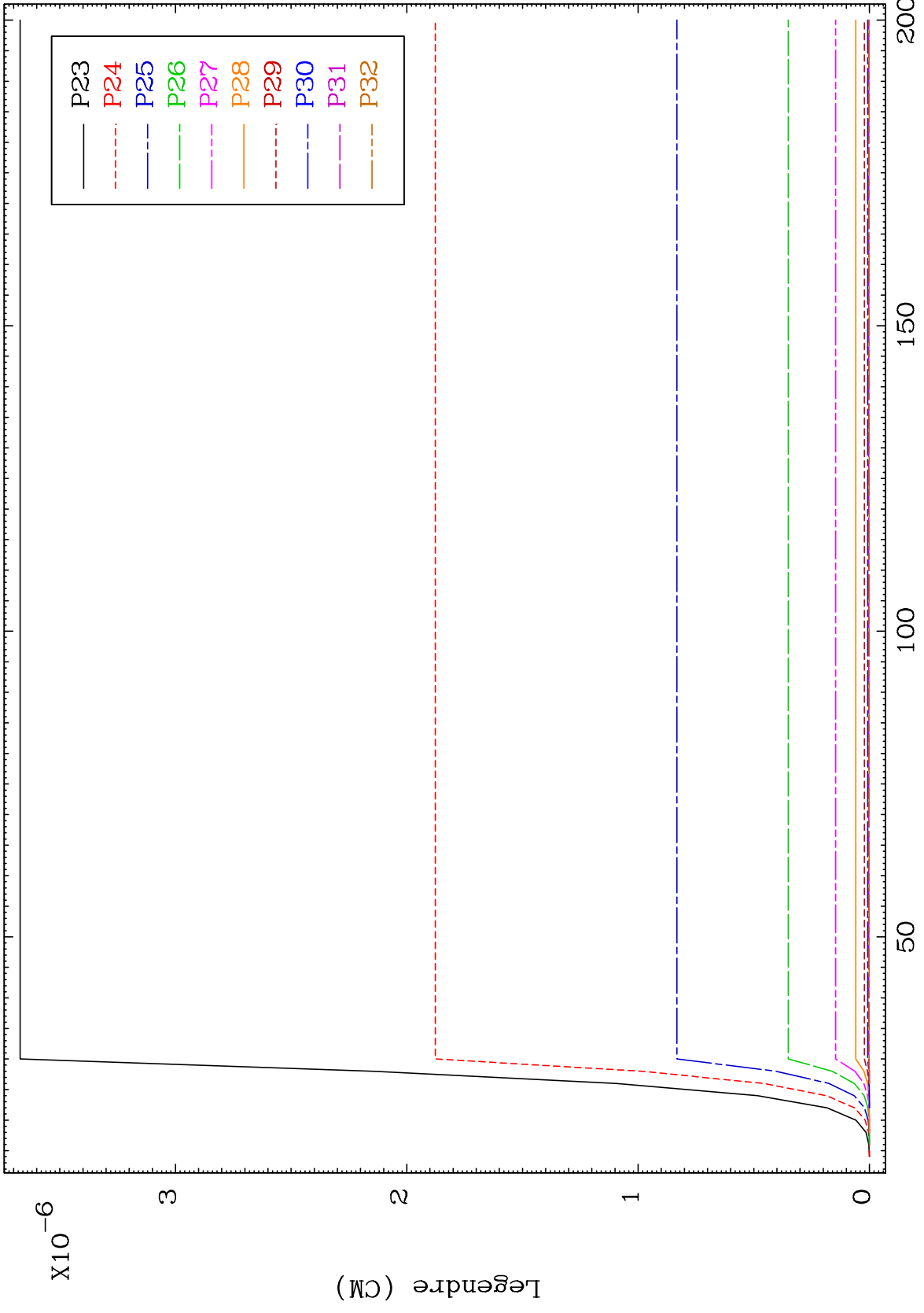
40-Zr-92

Incident Energy (MeV)

MAT 4031 MT= 68 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031 MT= 68 (n,n') Level Legendre Coefficients 40-Zr-92

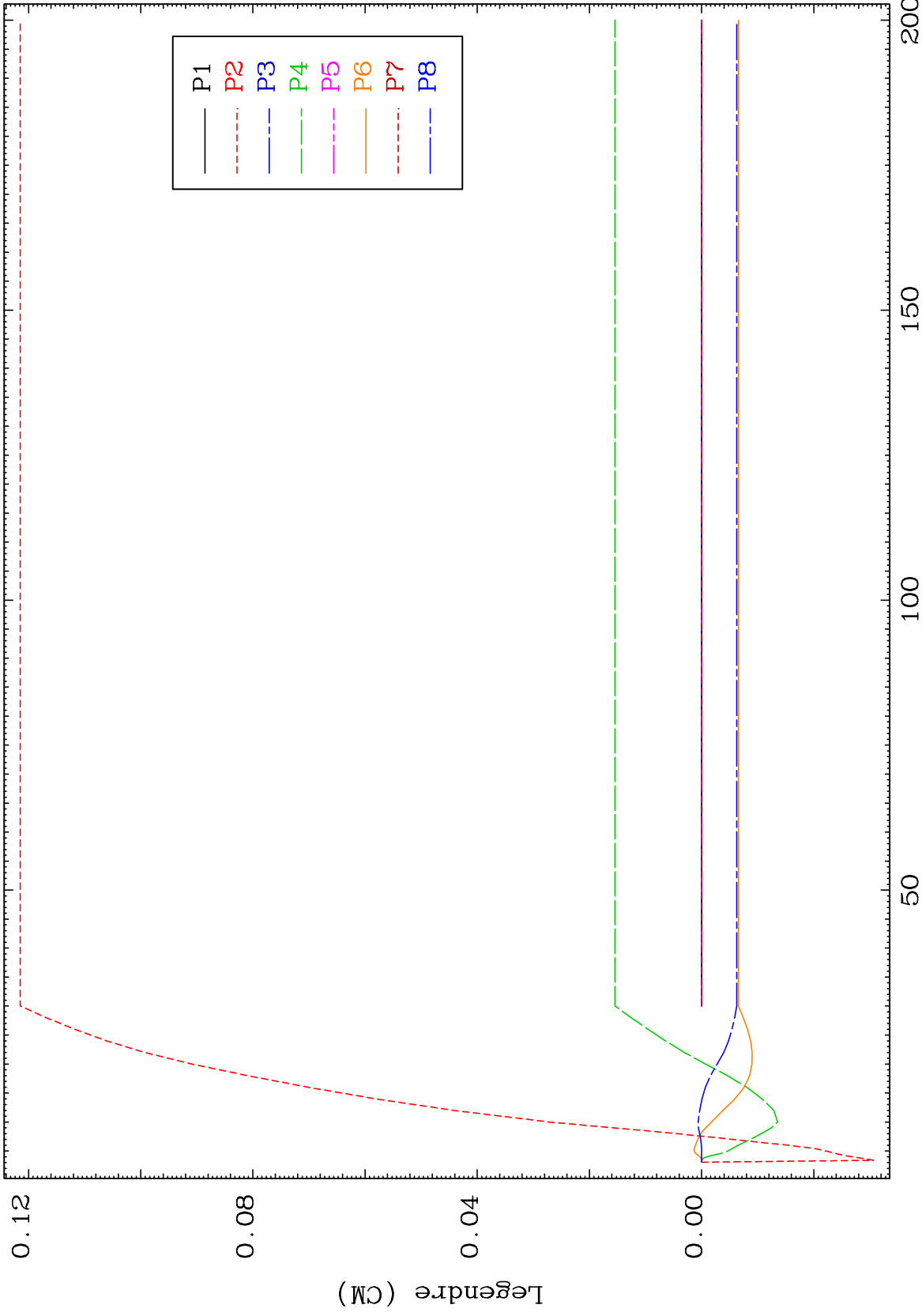


85 50 100 150 200 40-Zr-92

MAT 4031 MT= 69 (n,n') Level Legendre Coefficients

40-Zr-92

86

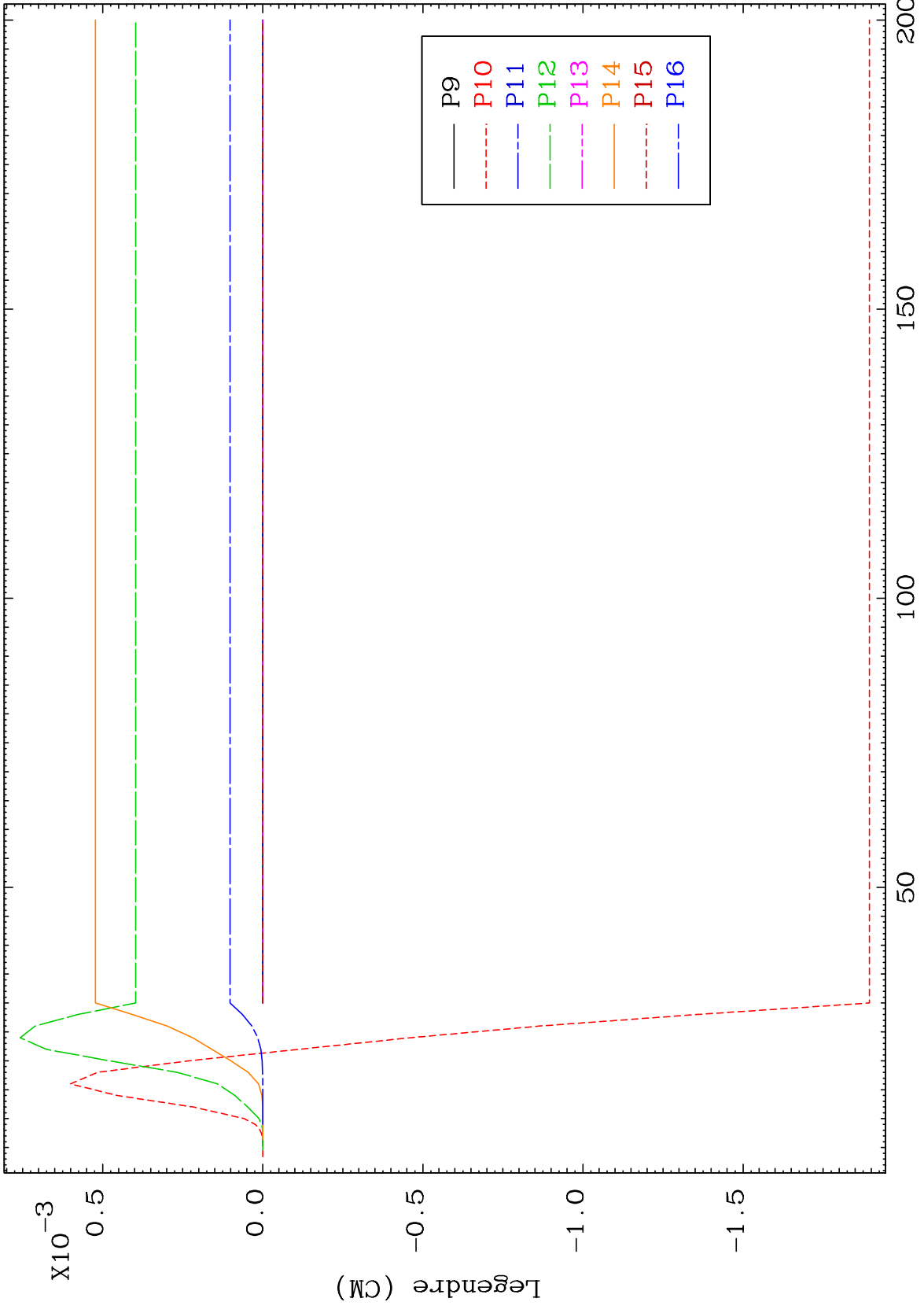


40-Zr-92

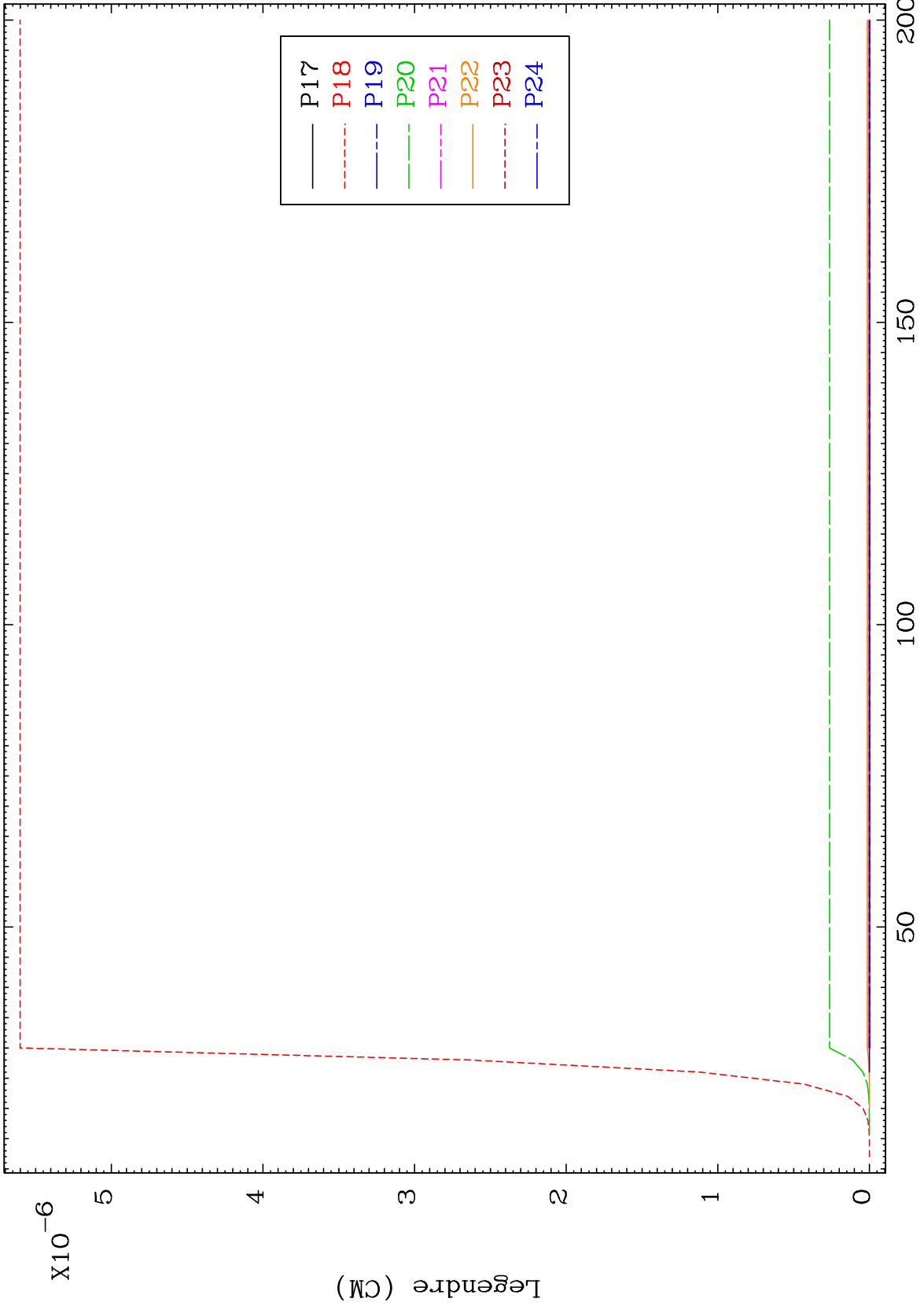
Incident Energy (MeV)

86

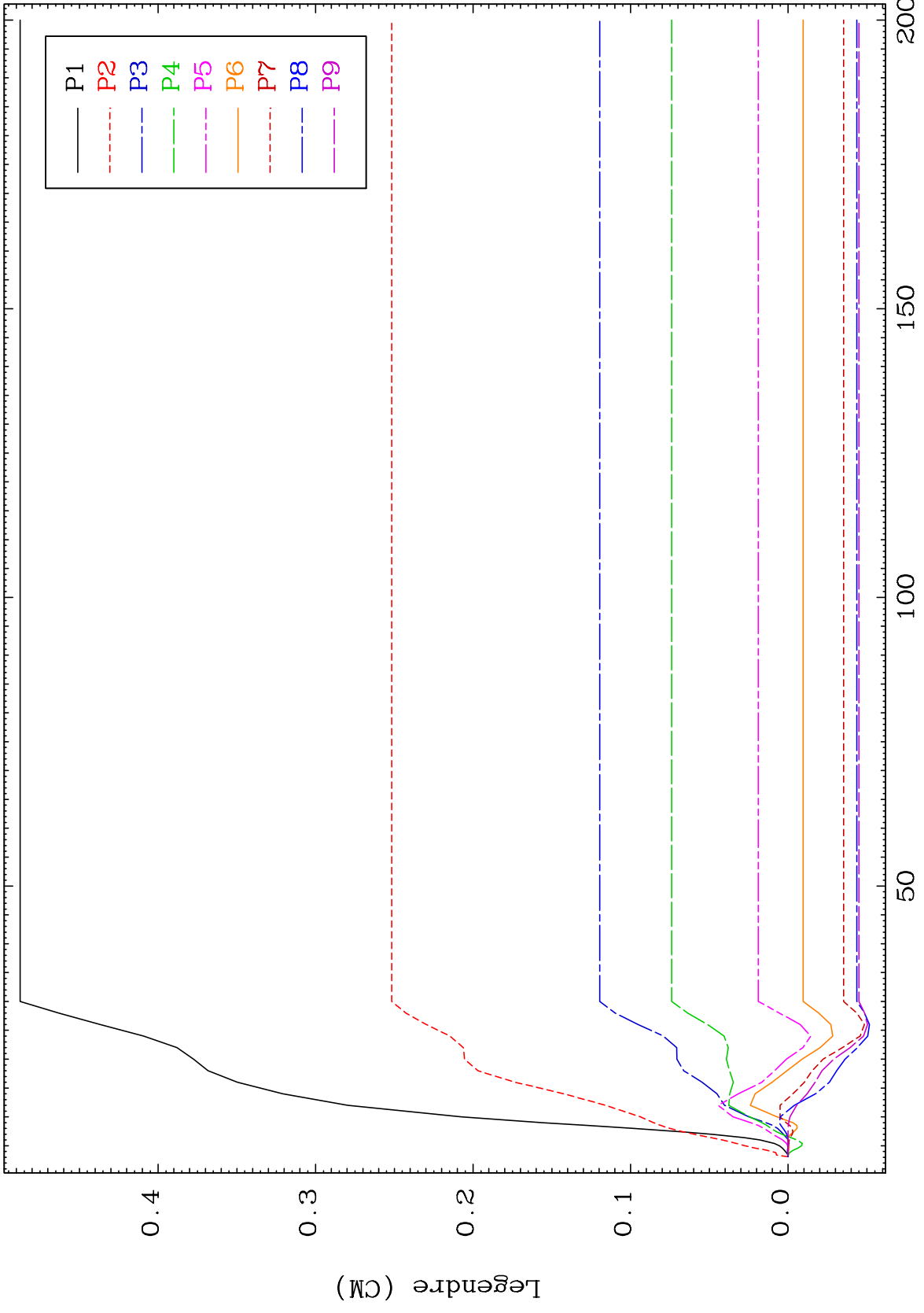
MAT 4031 MT= 69 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031 MT= 69 (n,n') Level Legendre Coefficients 40-Zr-92



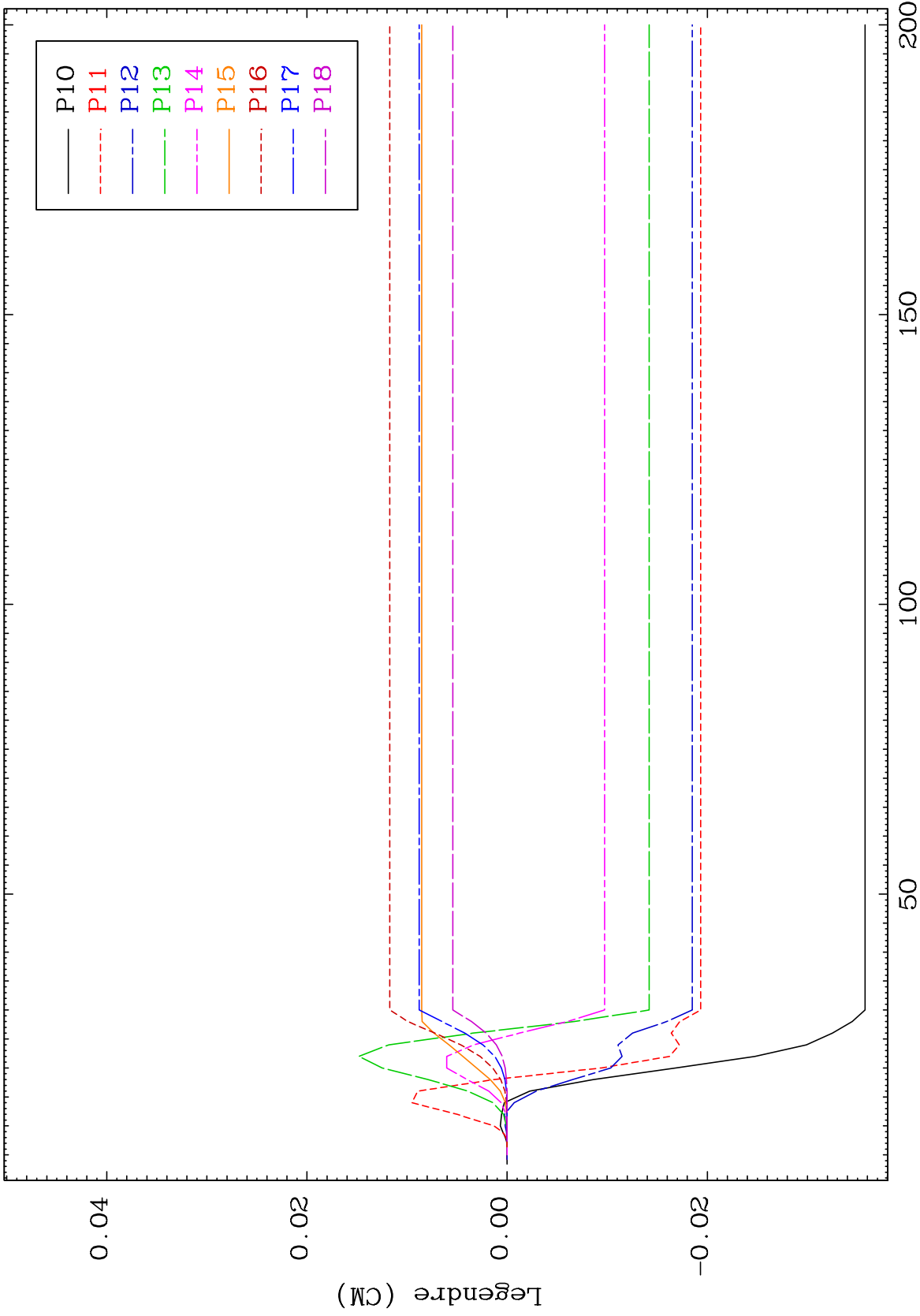
MAT 4031 MT= 70 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031

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

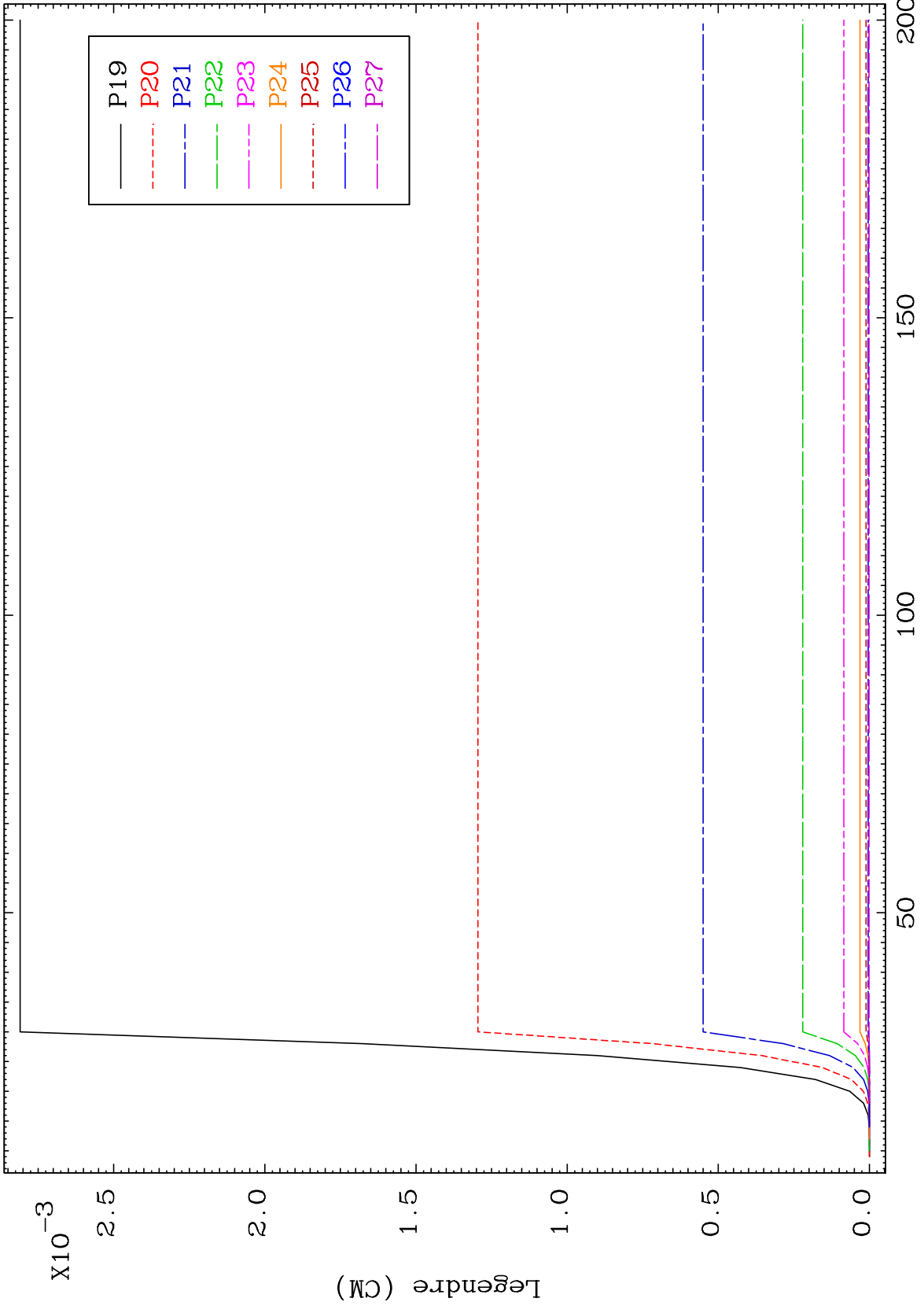
40-Zr-92



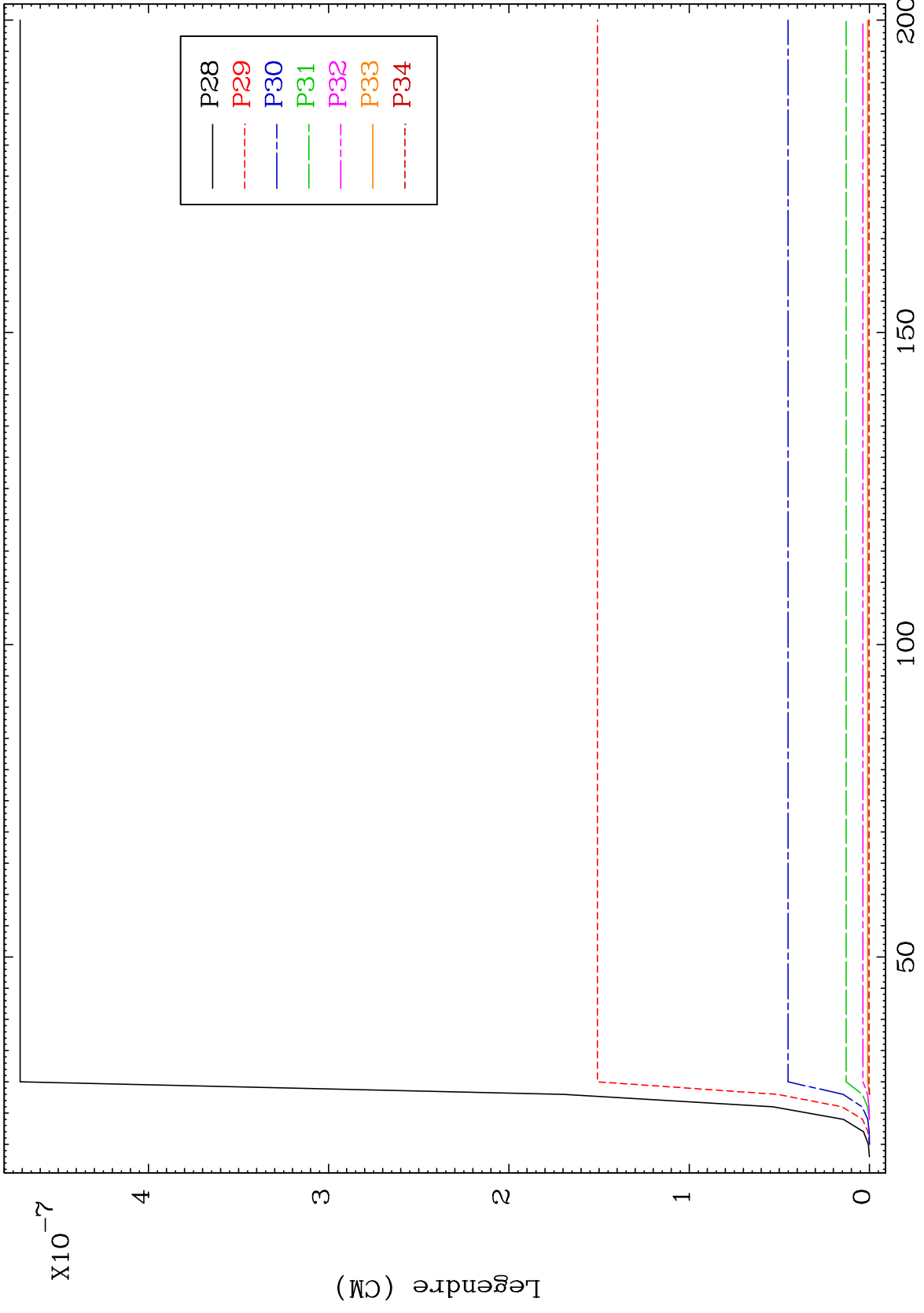
90

Incident Energy (MeV)

40-Zr-92

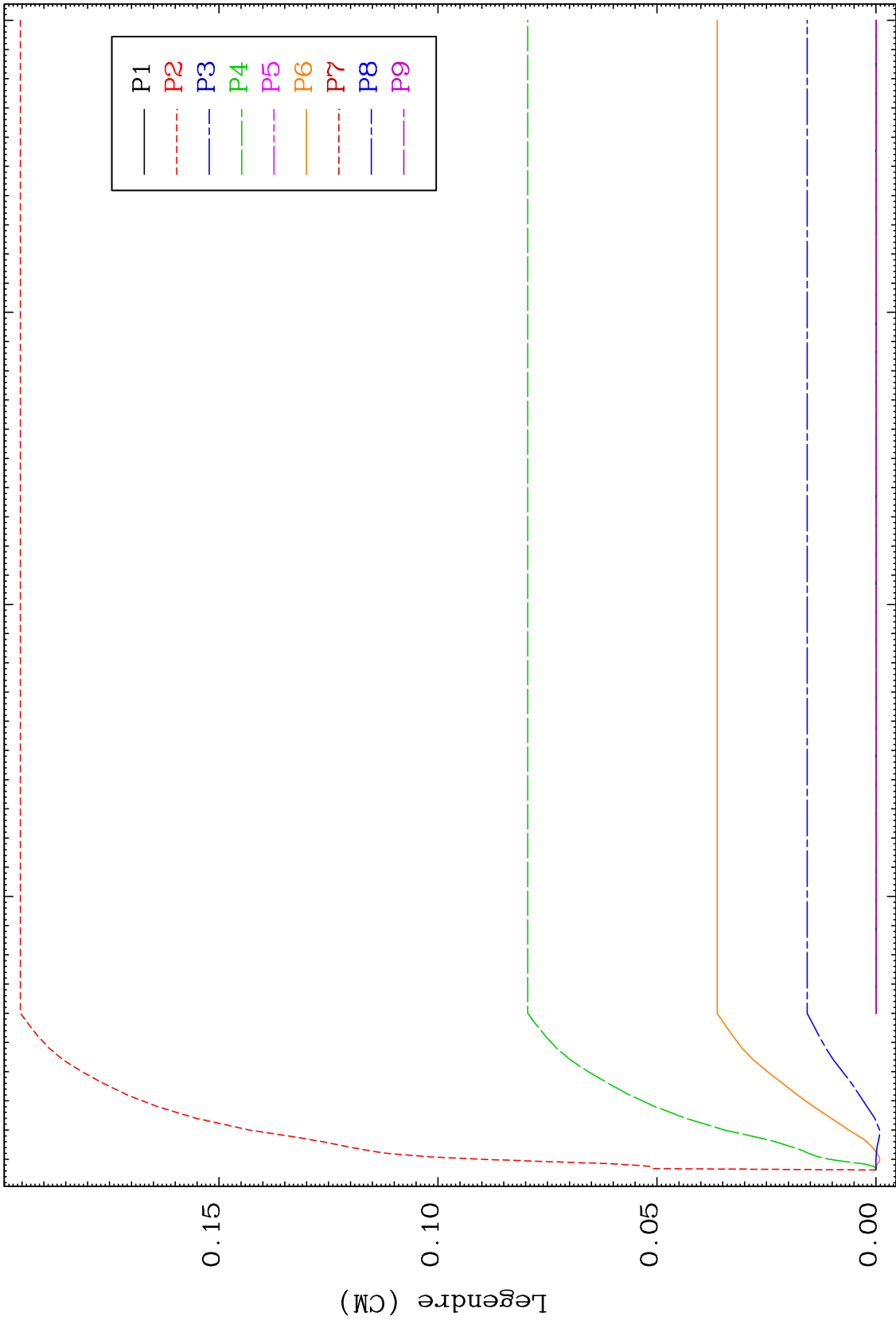


MAT 4031 MT= 70 (n,n') Level Legendre Coefficients 40-Zr-92



92 40-Zr-92

MAT 4031 MT= 71 (n,n') Level Legendre Coefficients 40-Zr-92

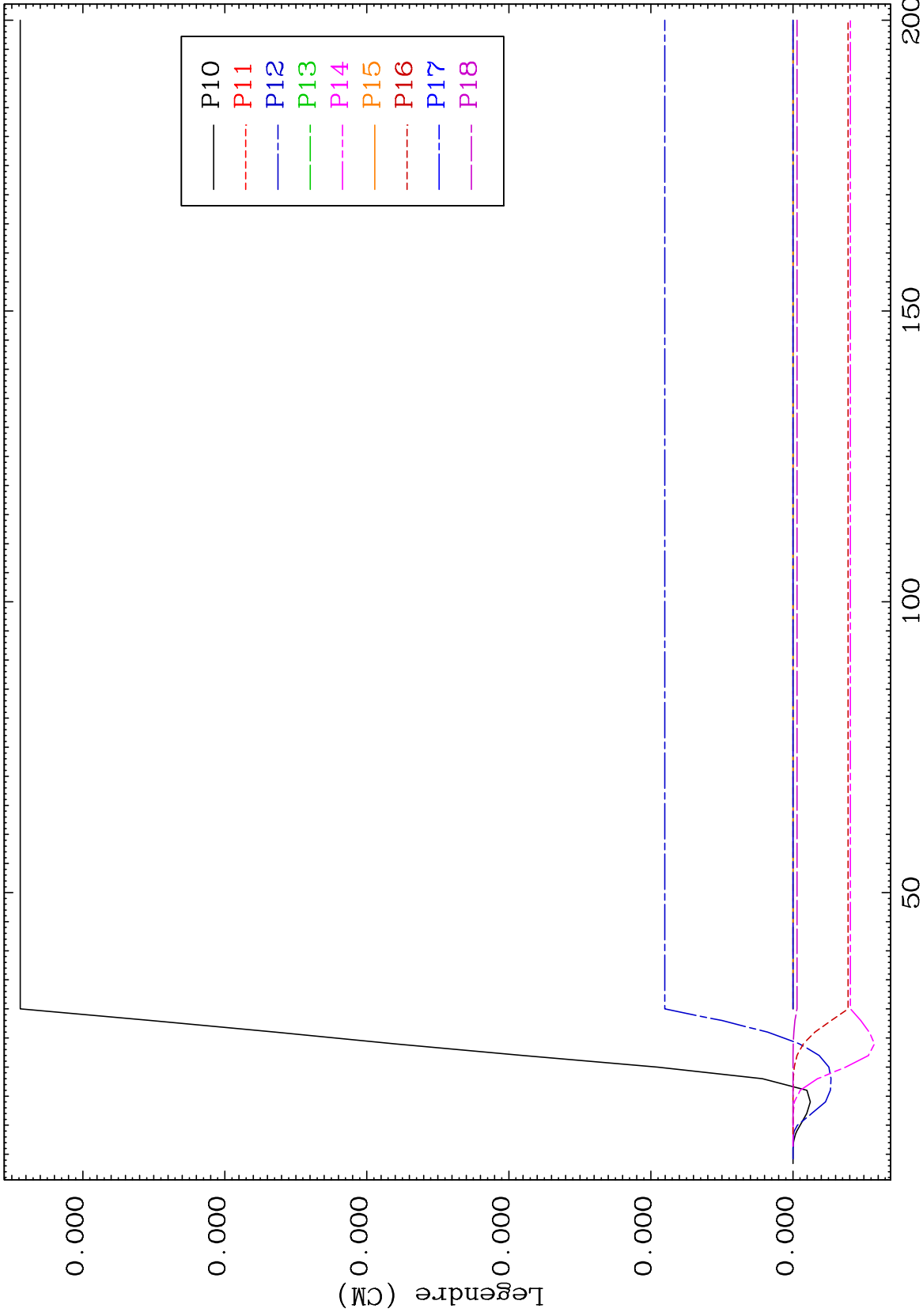


93 40-Zr-92

MAT 4031

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

40-Zr-92

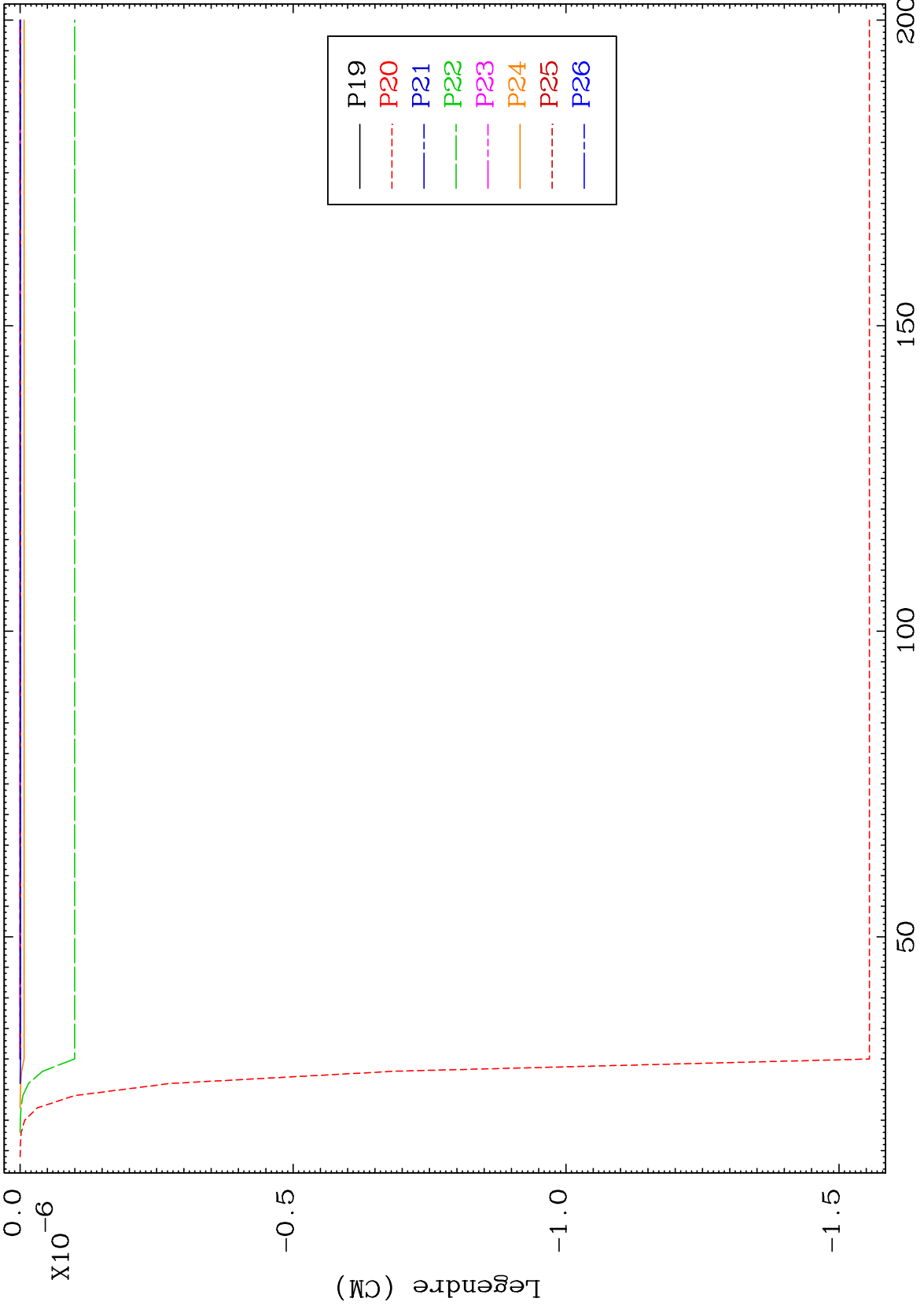


94

Incident Energy (MeV)

40-Zr-92

MAT 4031 MT= 71 (n,n') Level Legendre Coefficients 40-Zr-92

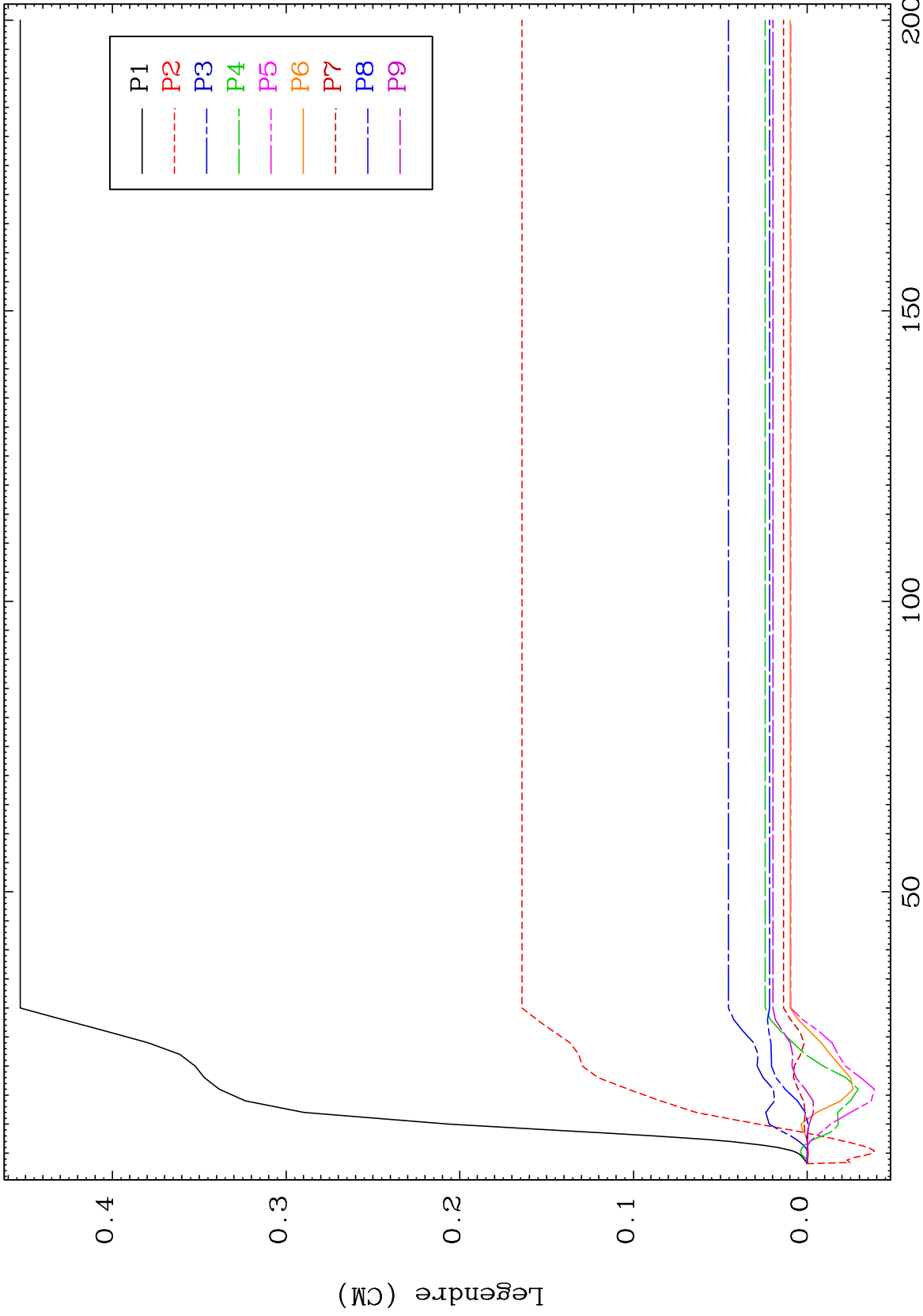


95 Incident Energy (MeV) 40-Zr-92

MAT 4031

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

40-Zr-92



96

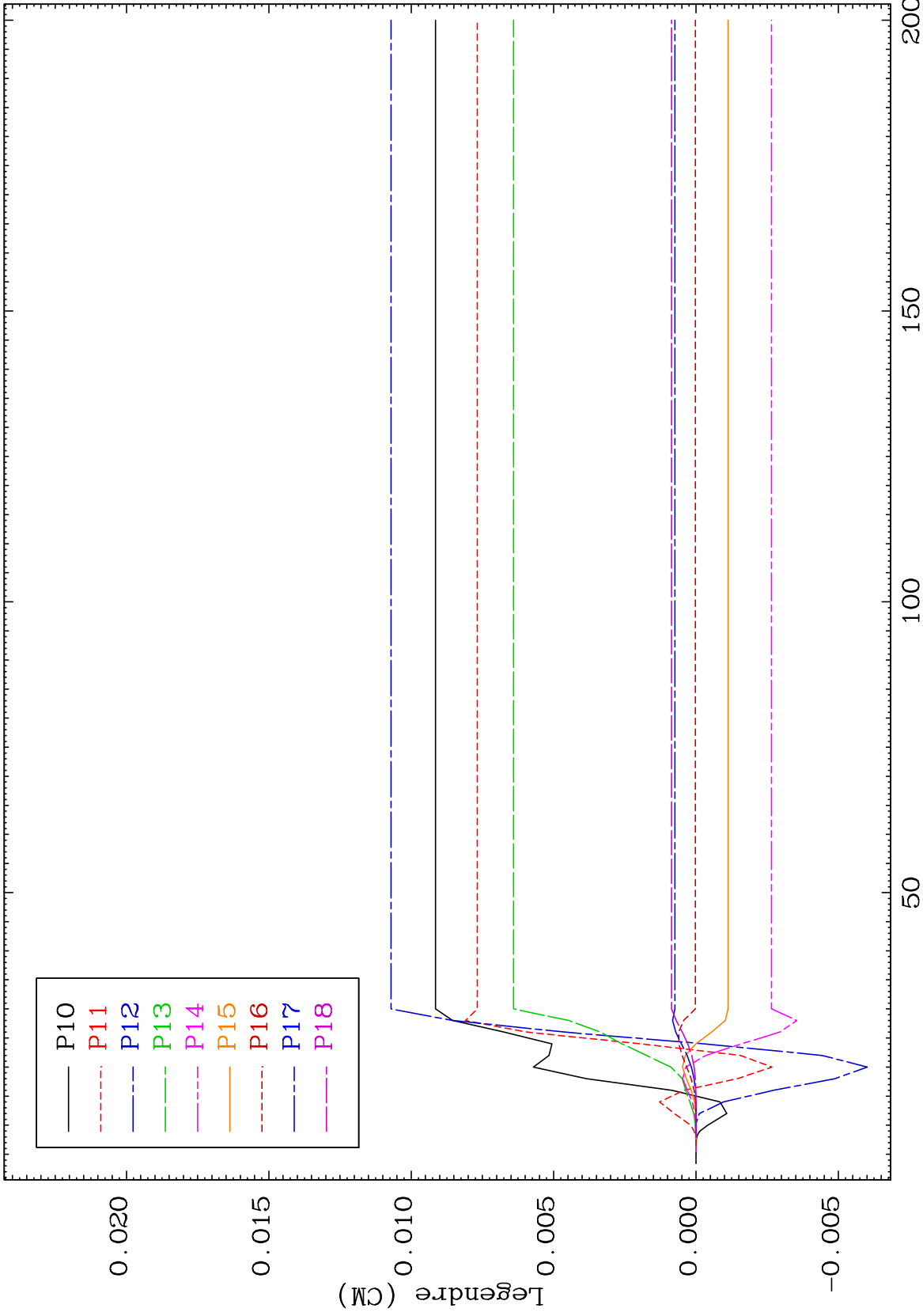
Incident Energy (MeV)

40-Zr-92

MAT 4031

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

40-Zr-92

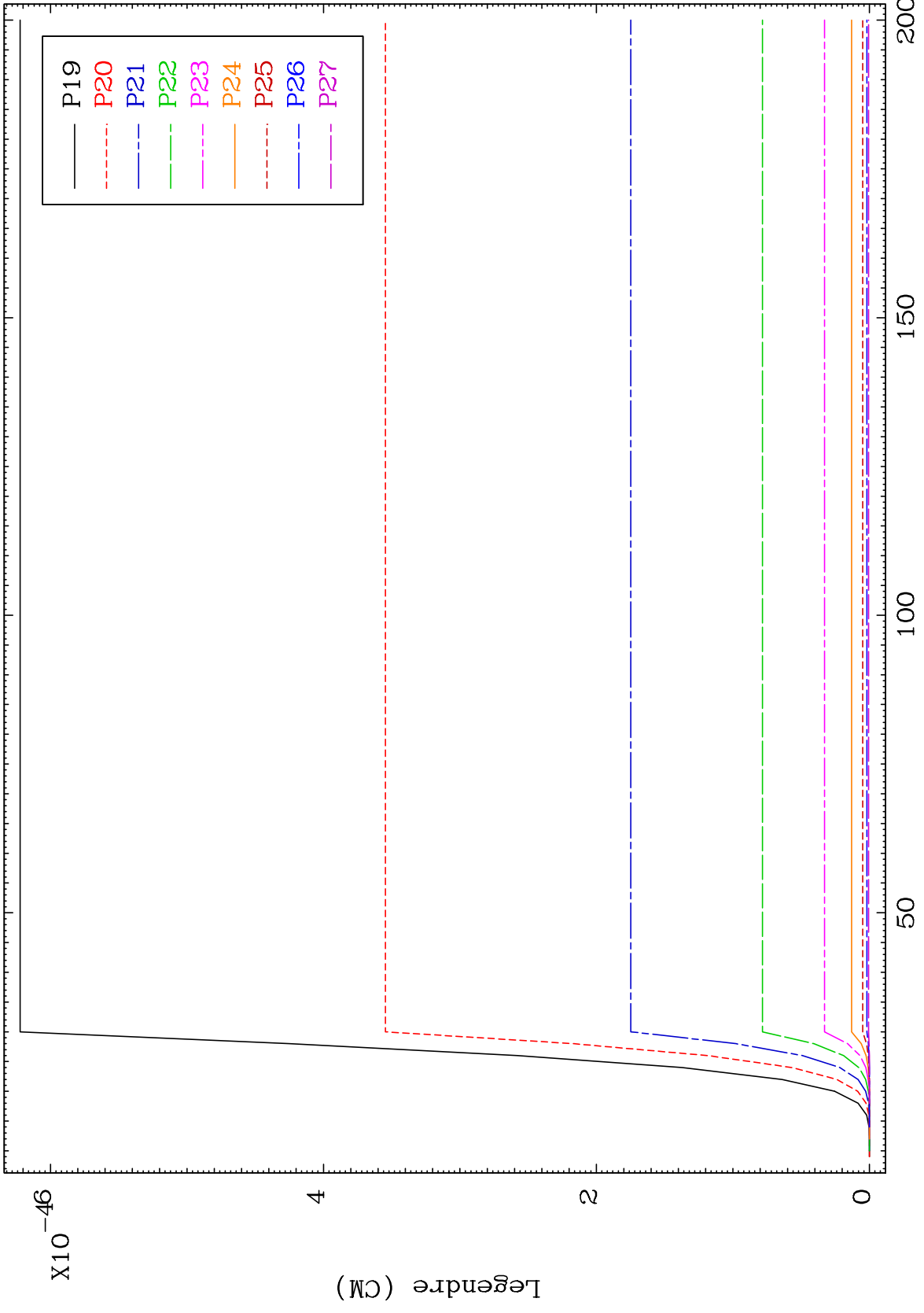


97

Incident Energy (MeV)

40-Zr-92

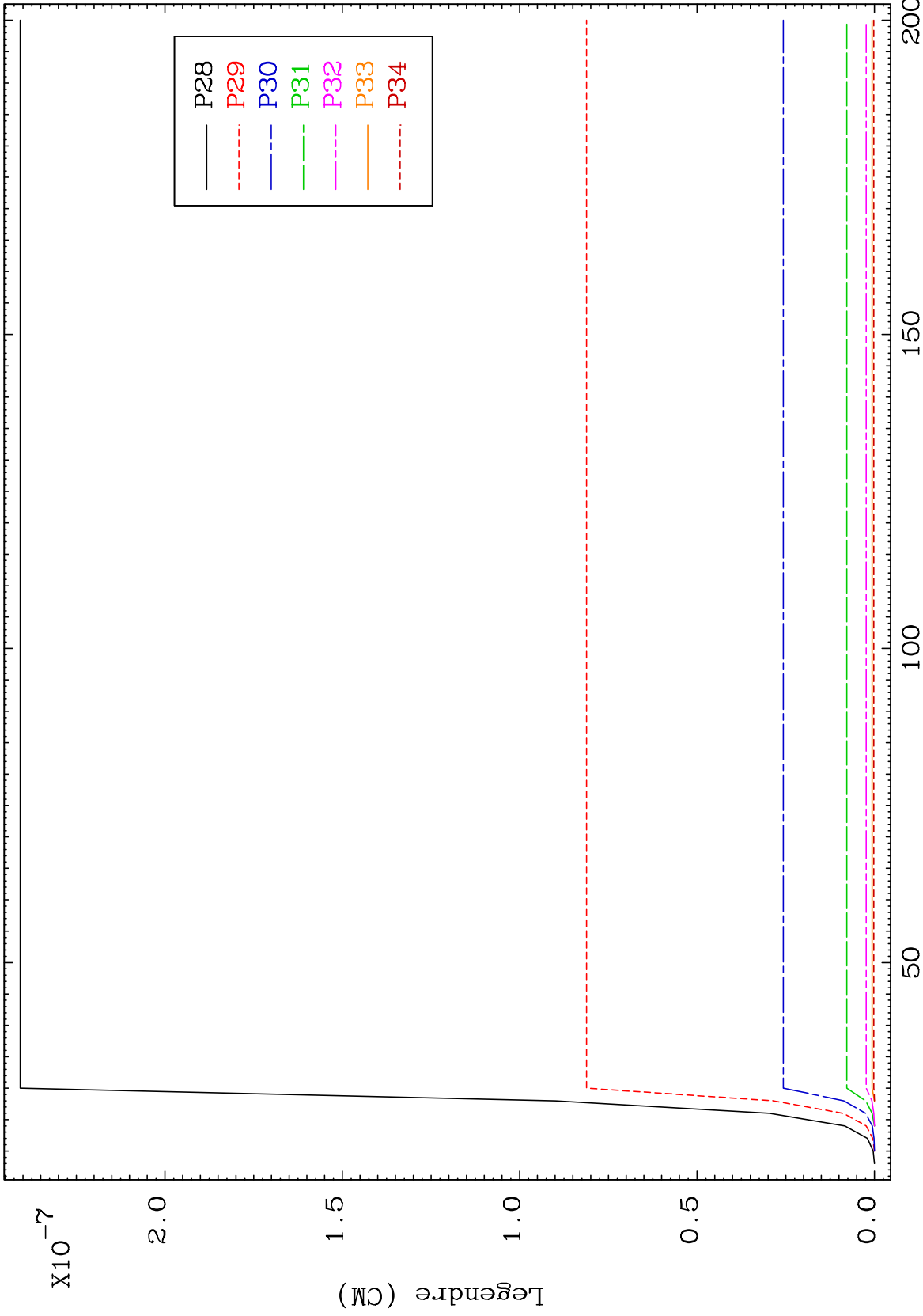
MAT 4031 MT= 72 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031

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

40-Zr-92

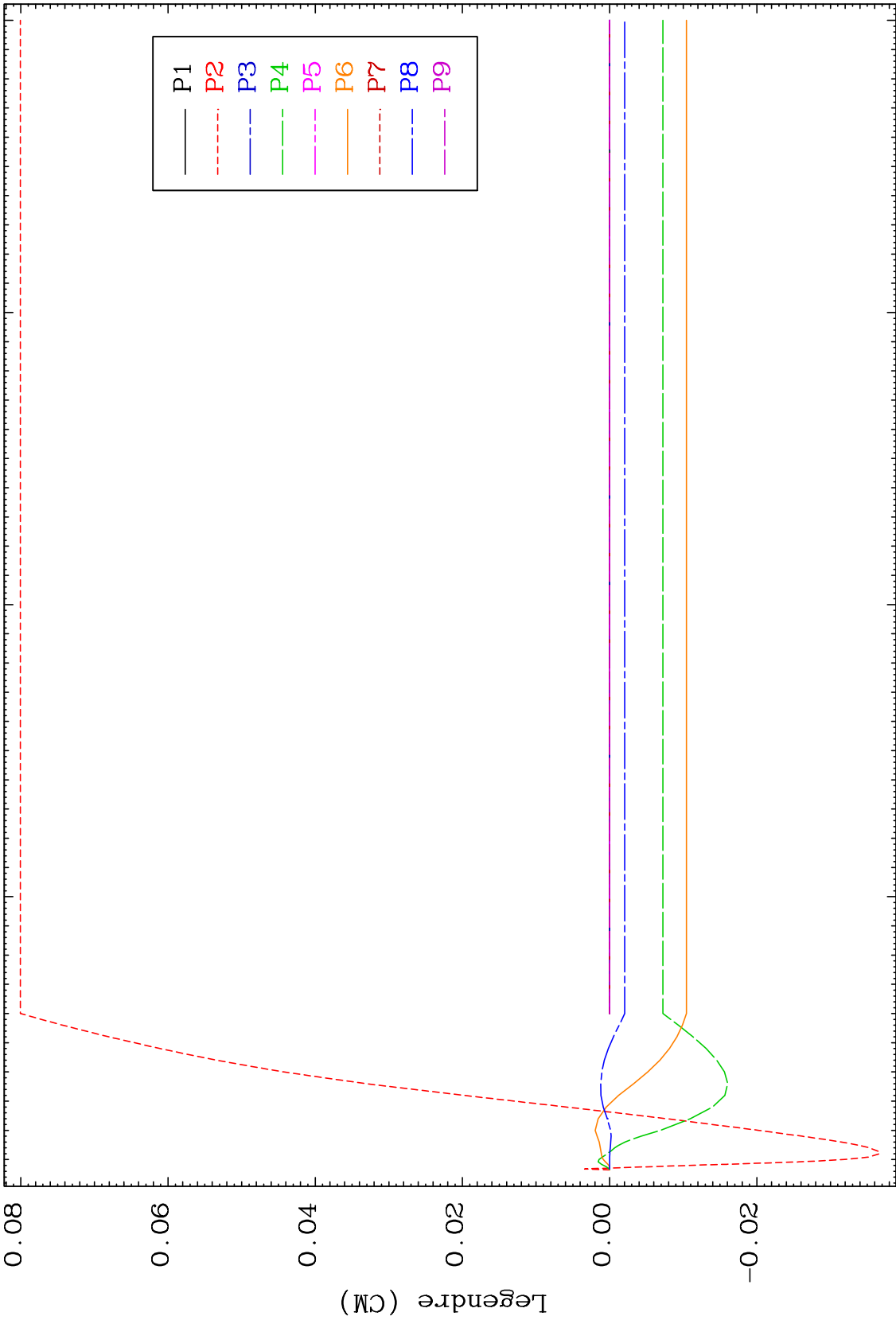


99

Incident Energy (MeV)

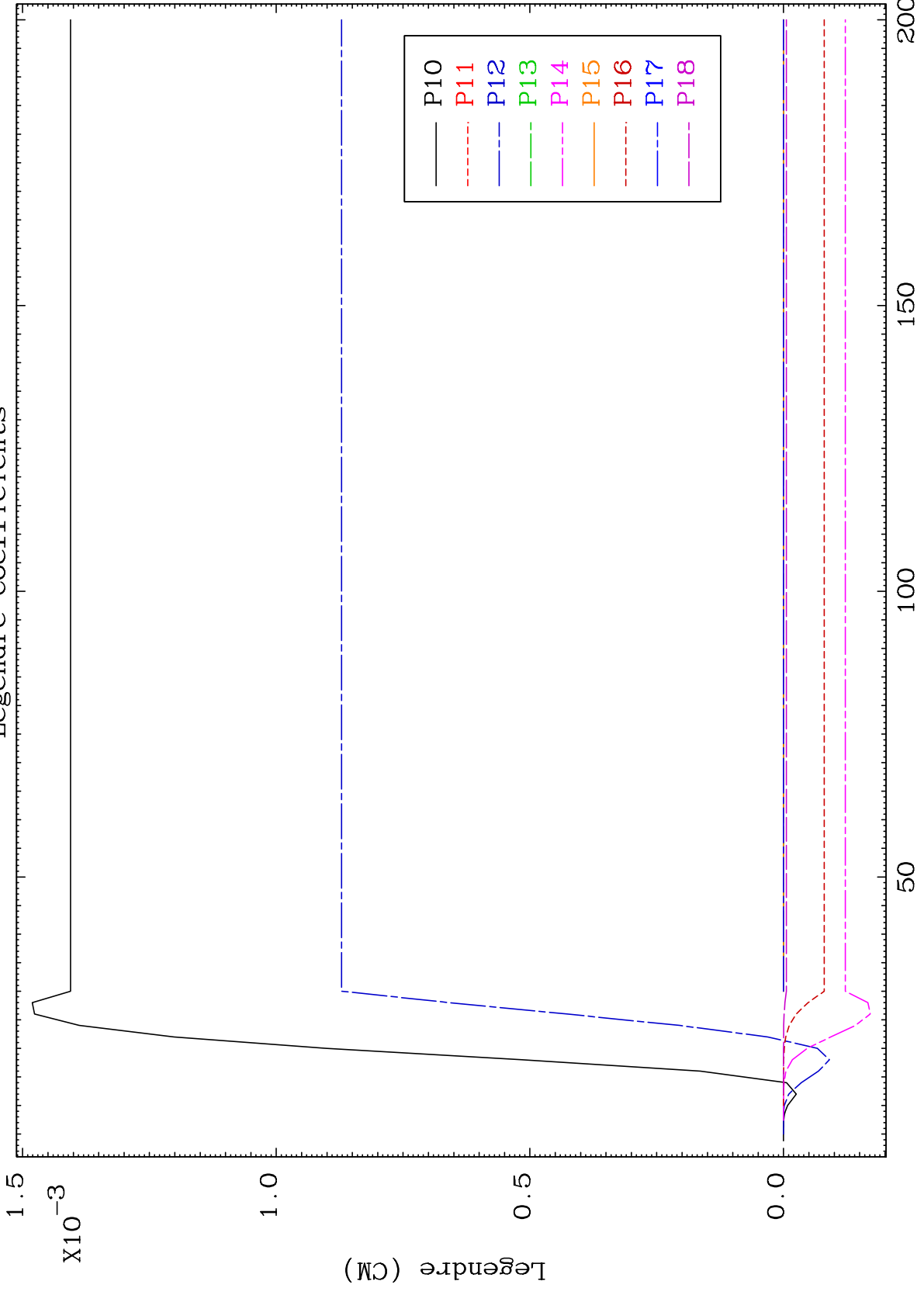
40-Zr-92

MAT 4031 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-92

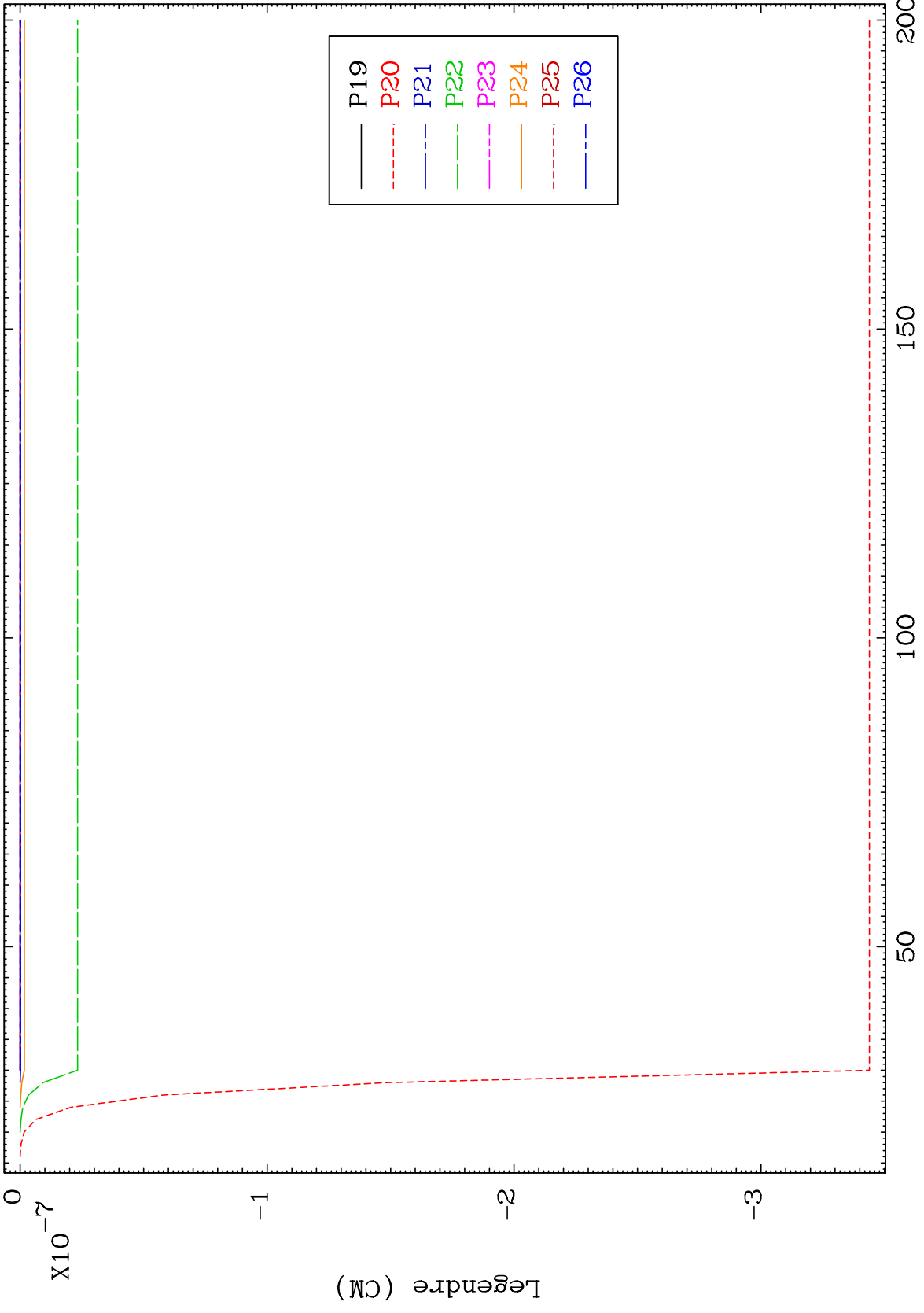


40-Zr-92

MAT 4031 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-92

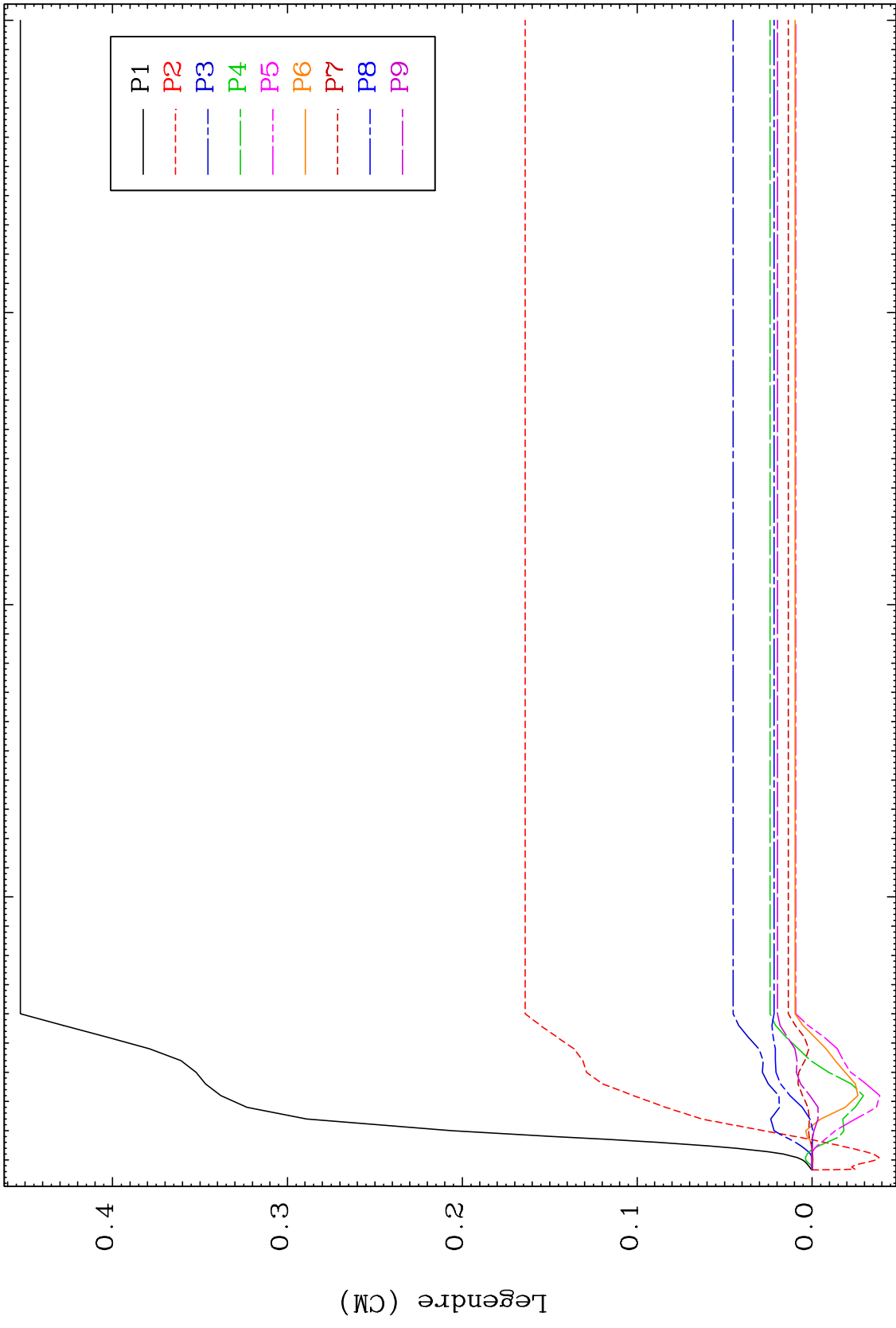


MAT 4031 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-92



102 40-Zr-92

MAT 4031 MT= 74 (n,n') Level Legendre Coefficients 40-Zr-92



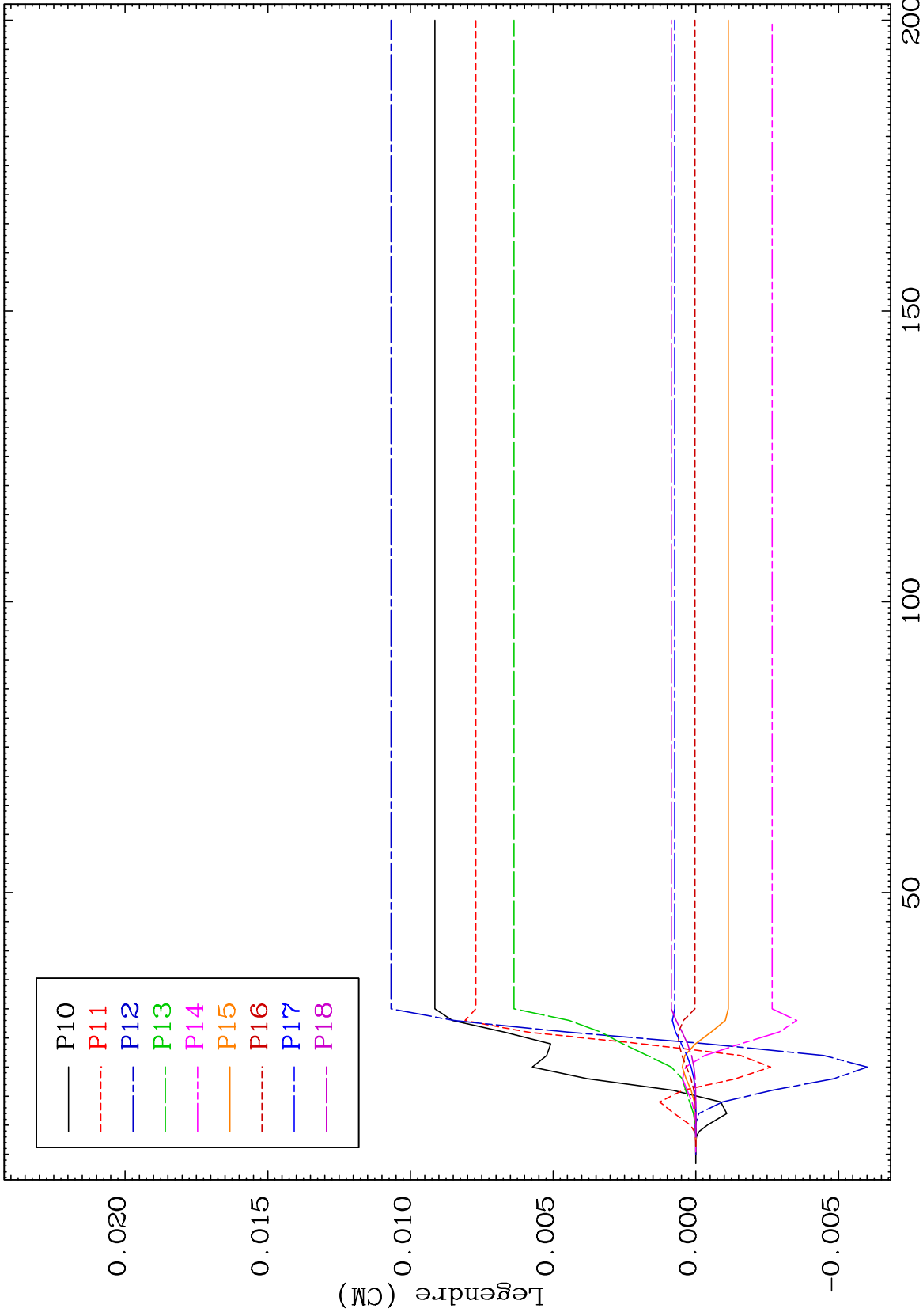
Legendre (CM) Incident Energy (MeV) 40-Zr-92

P1
P2
P3
P4
P5
P6
P7
P8
P9

MAT 4031

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

40-Zr-92

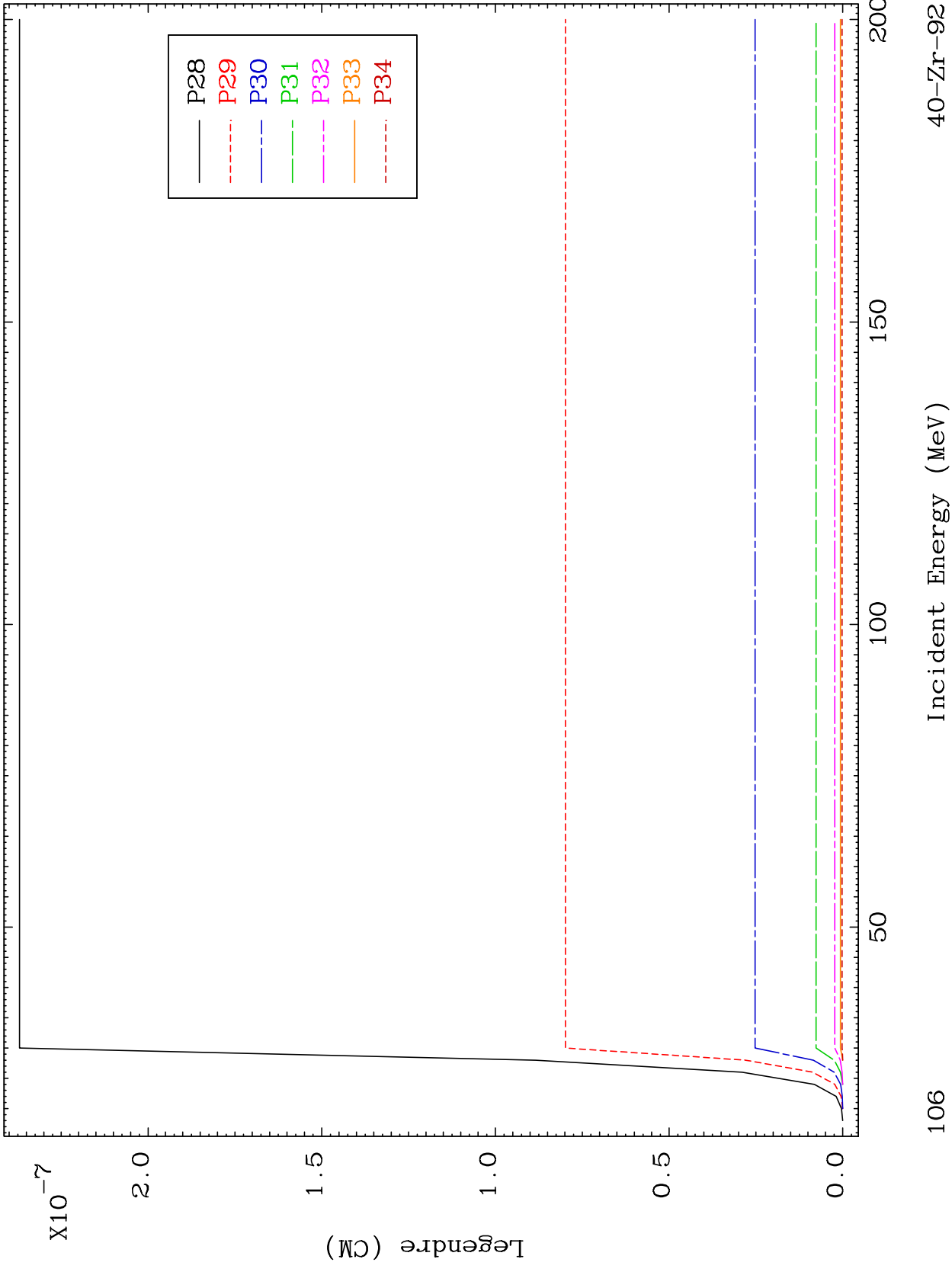


104

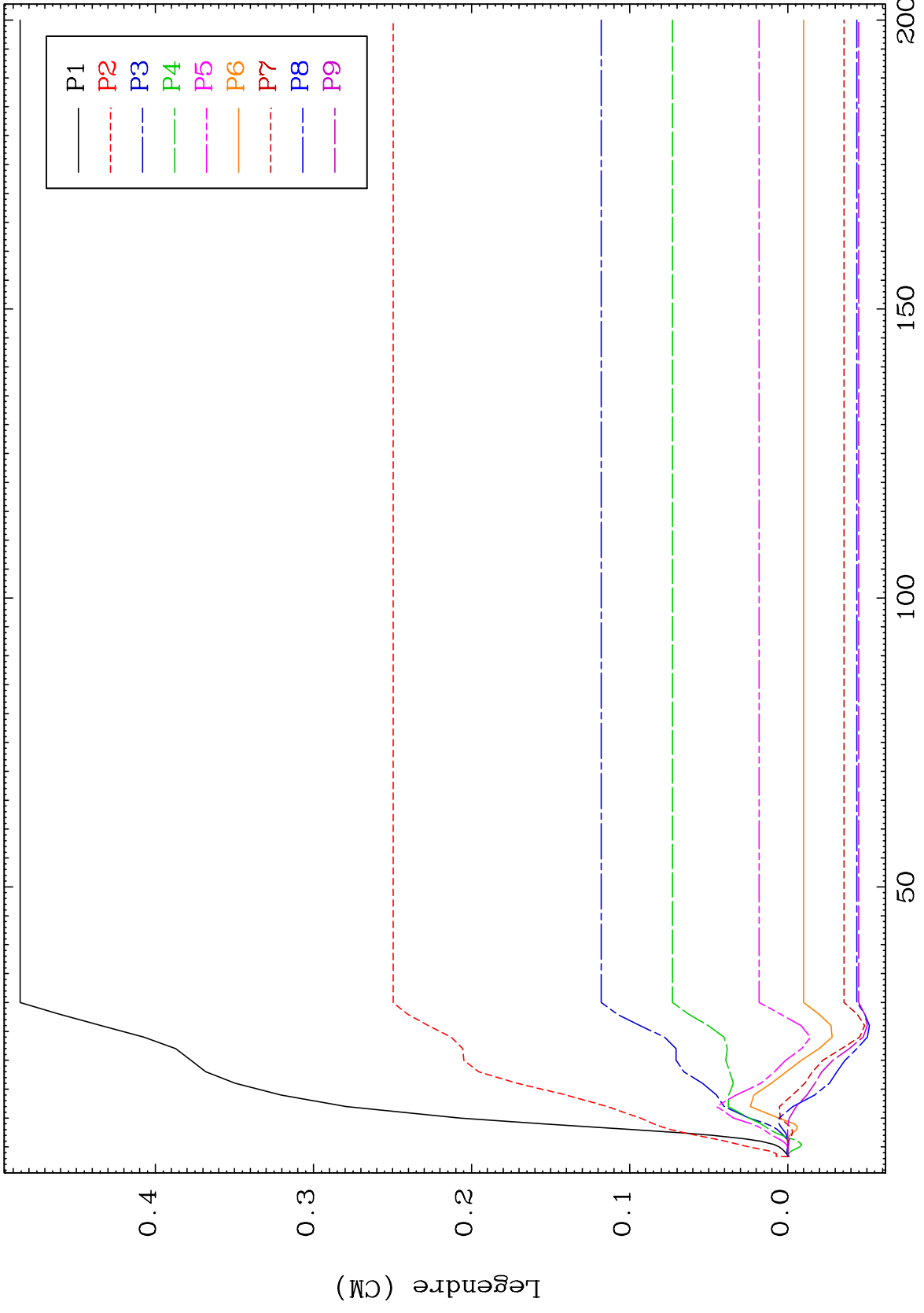
Incident Energy (MeV)

40-Zr-92

MAT 4031 MT= 74 (n,n') Level Legendre Coefficients 40-Zr-92



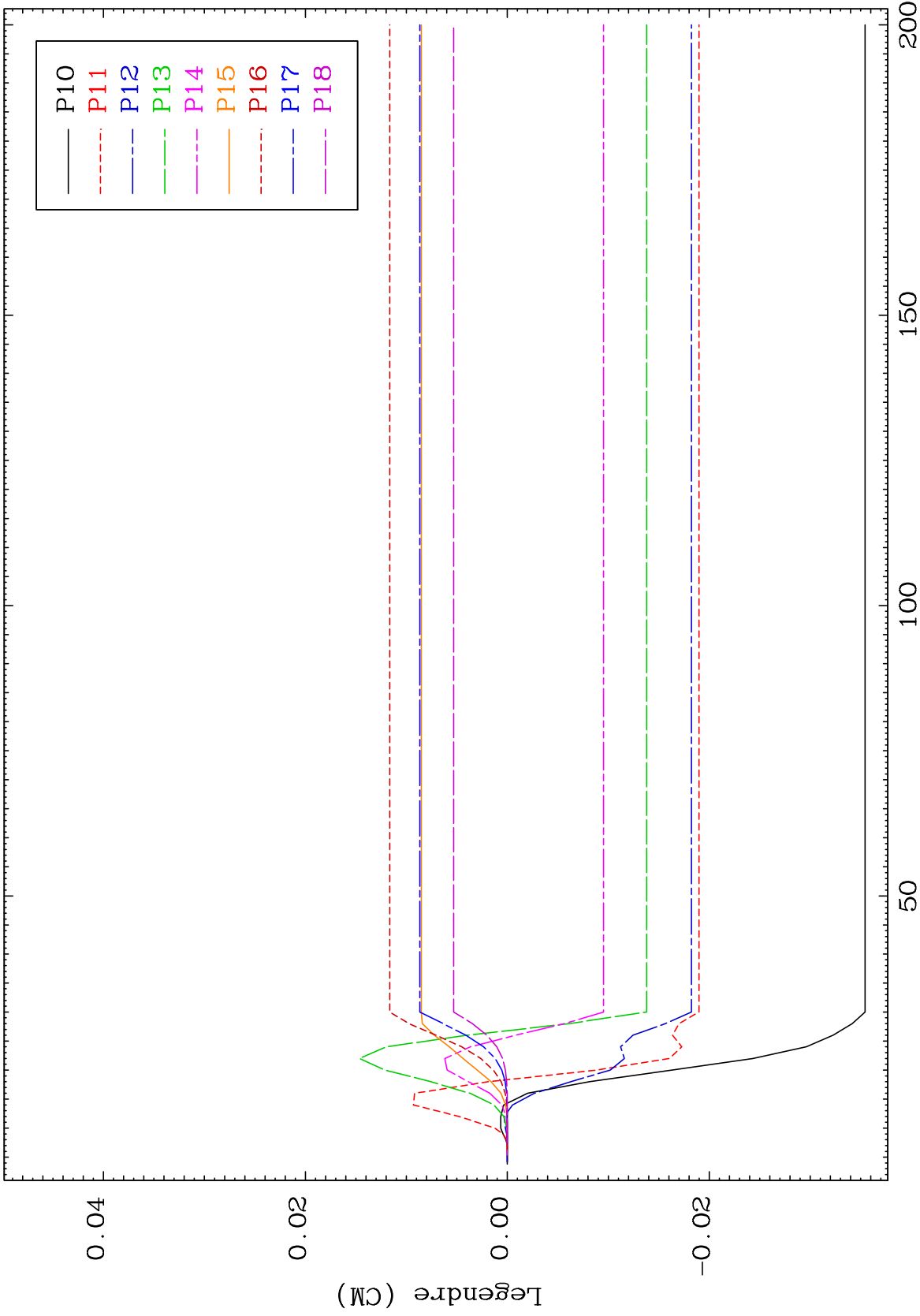
MAT 4031 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031

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

40-Zr-92

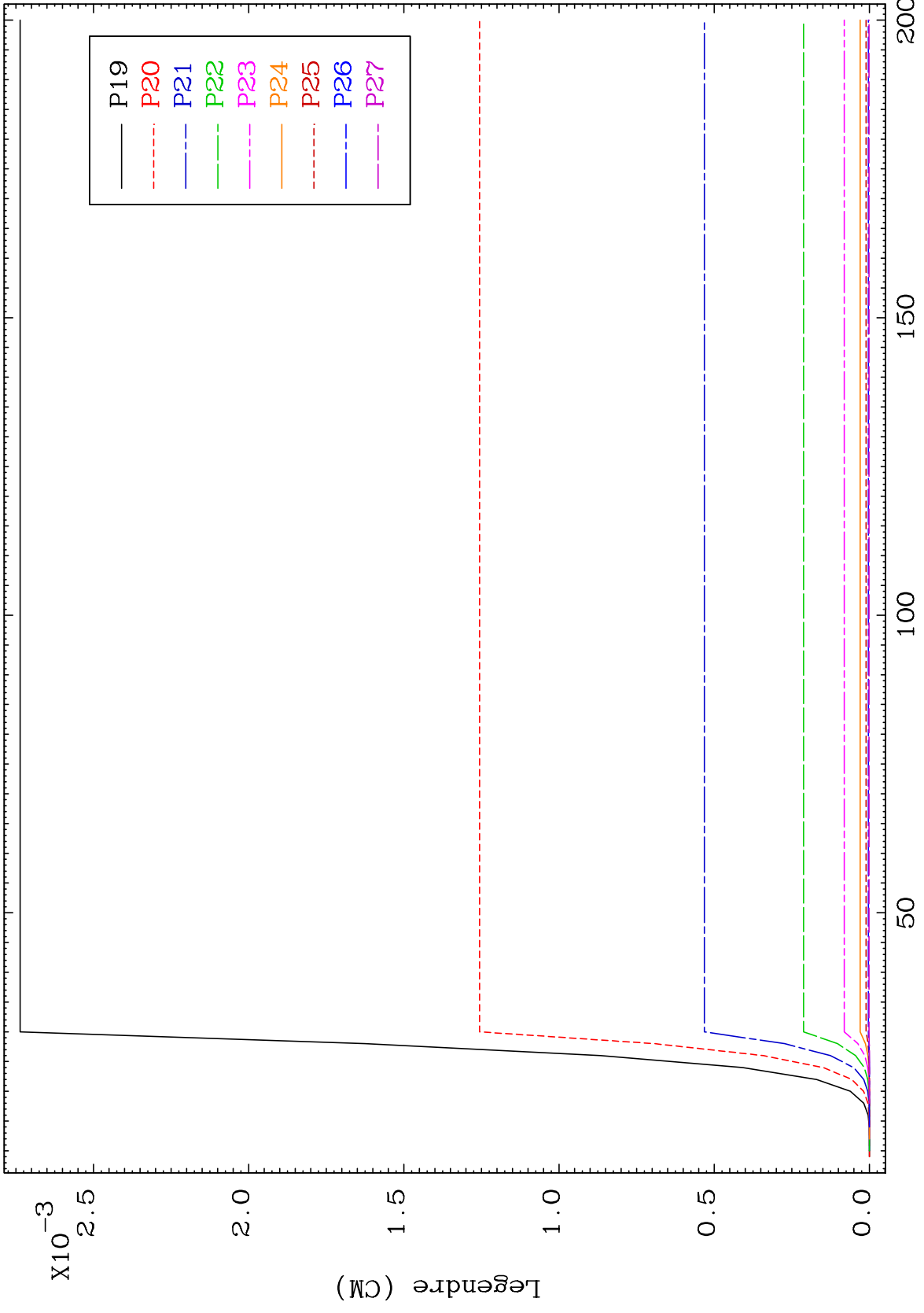


108

Incident Energy (MeV)

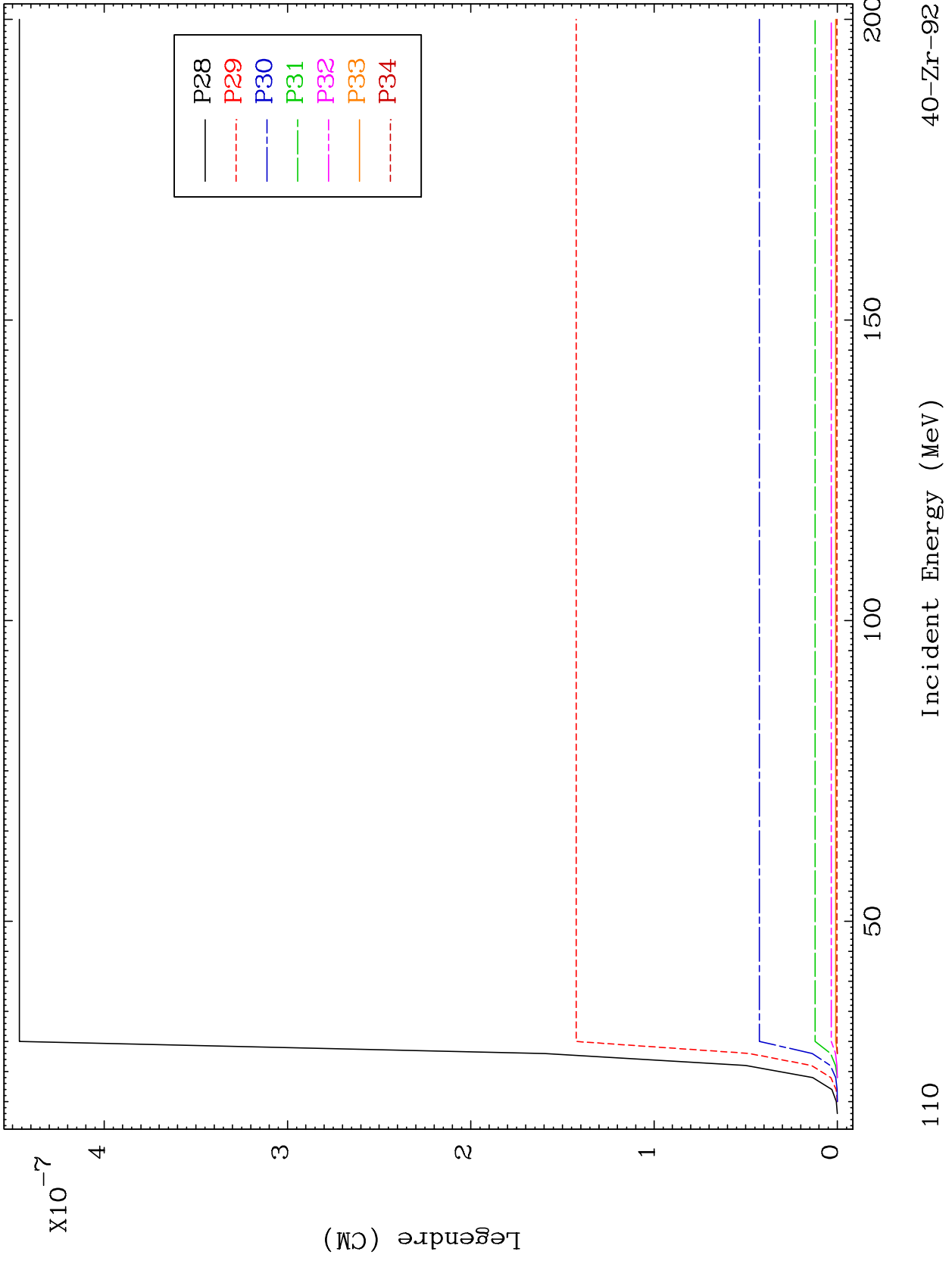
40-Zr-92

MAT 4031 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-92

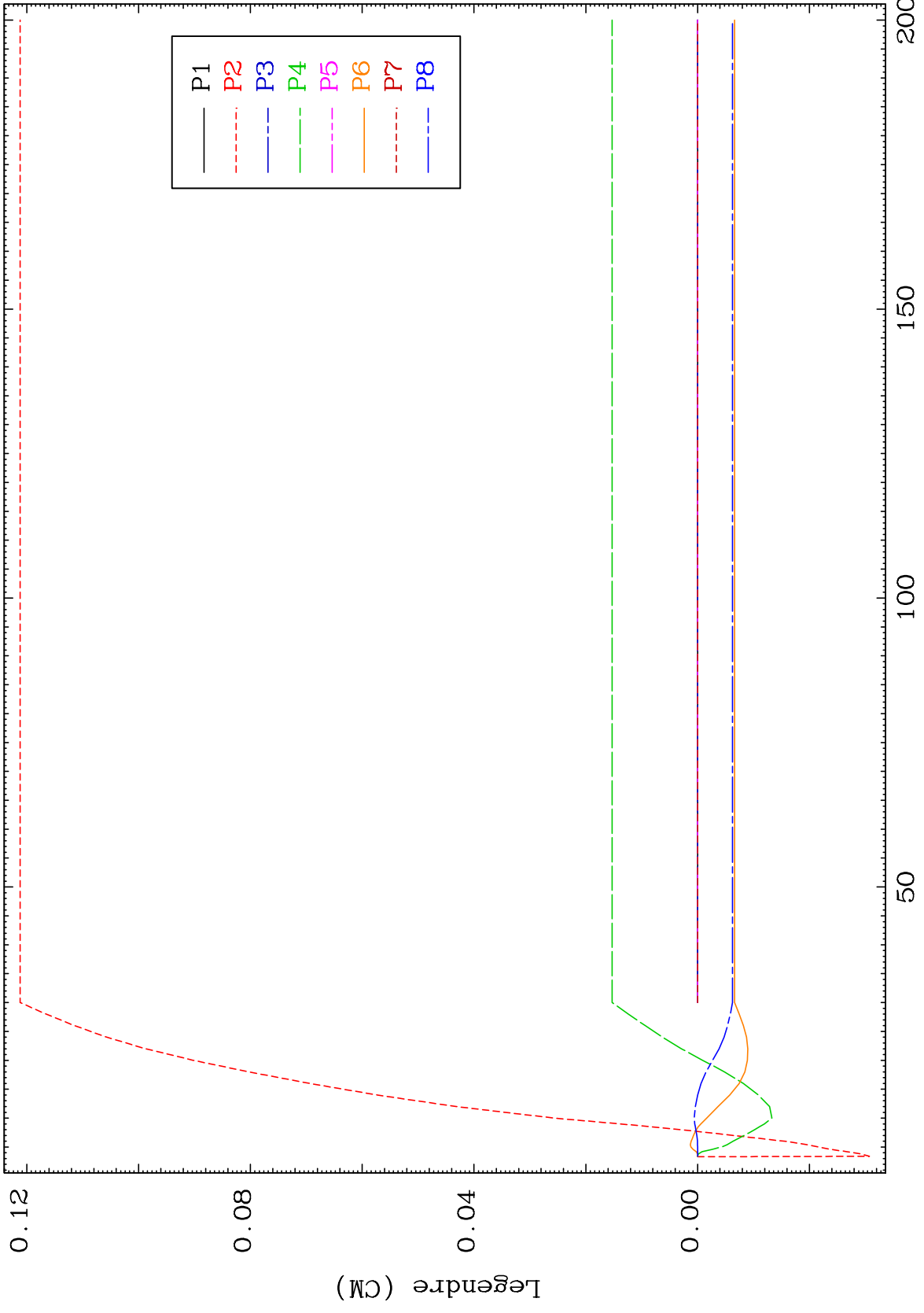


109 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-92

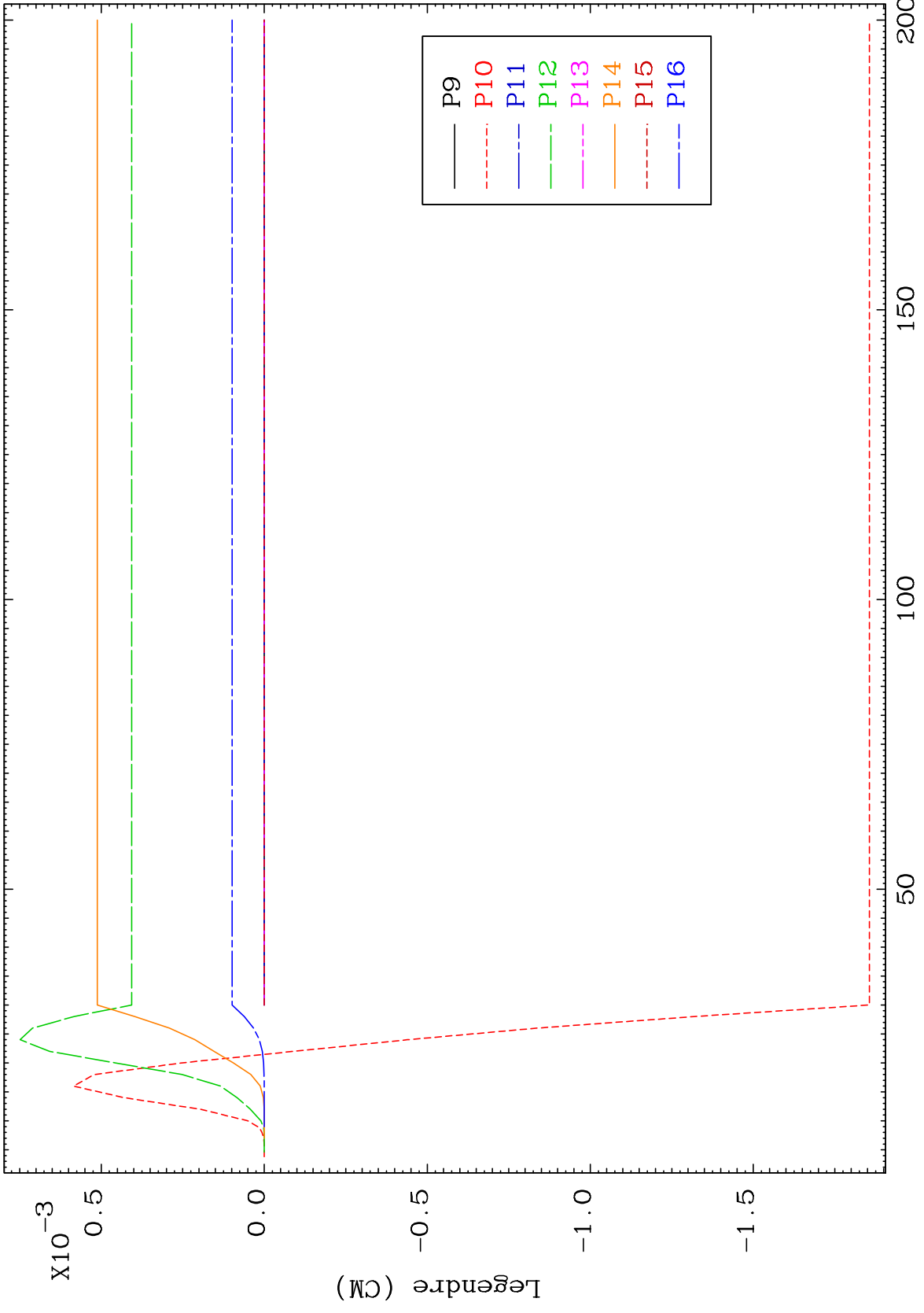


MAT 4031 MT= 76 (n,n') Level Legendre Coefficients 40-Zr-92

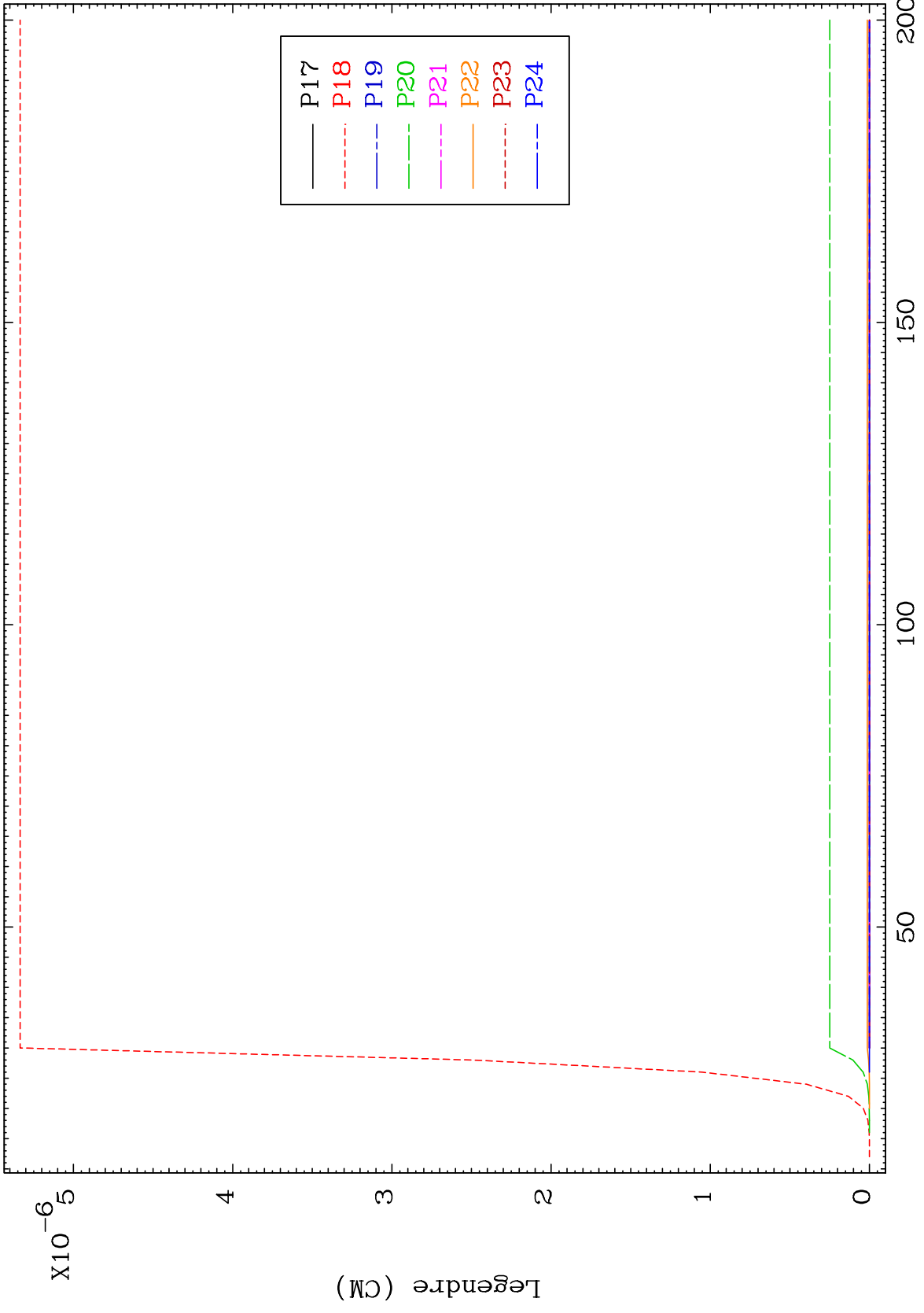


111 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 76 (n,n') Level Legendre Coefficients 40-Zr-92



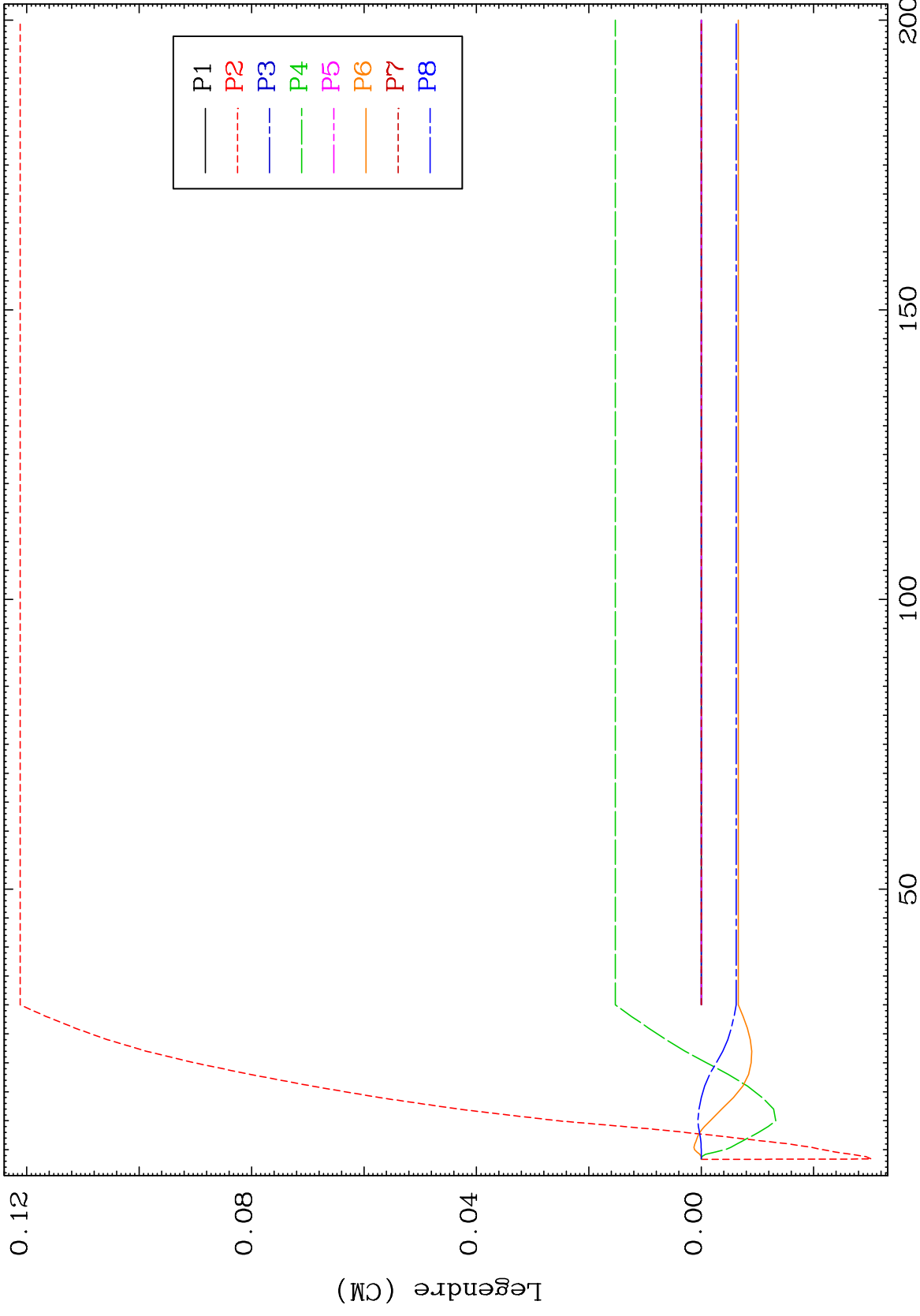
MAT 4031 MT= 76 (n,n') Level Legendre Coefficients 40-Zr-92



113 40-Zr-92

MAT 4031 MT= 77 (n,n') Level Legendre Coefficients

40-Zr-92

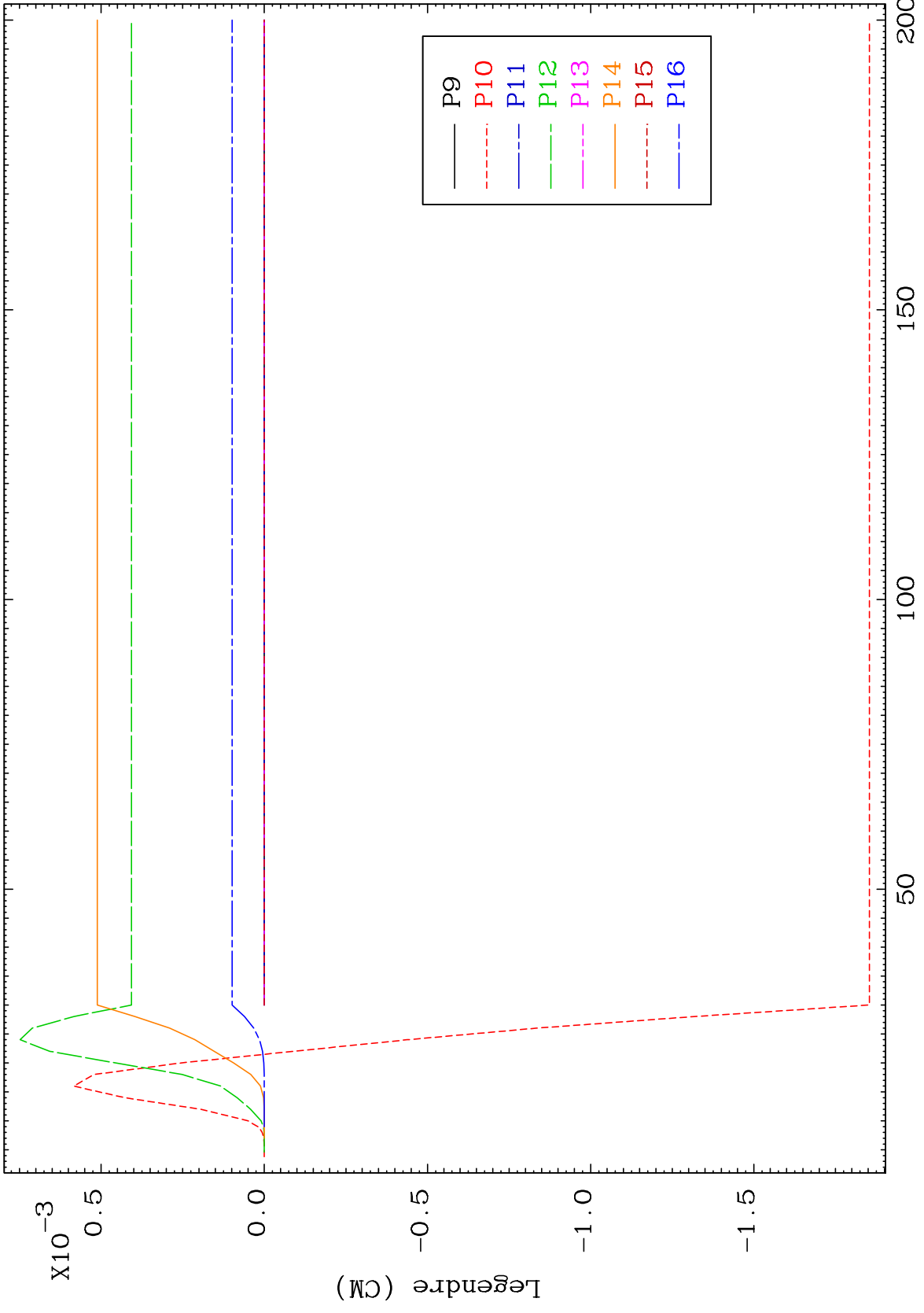


40-Zr-92

Incident Energy (MeV)

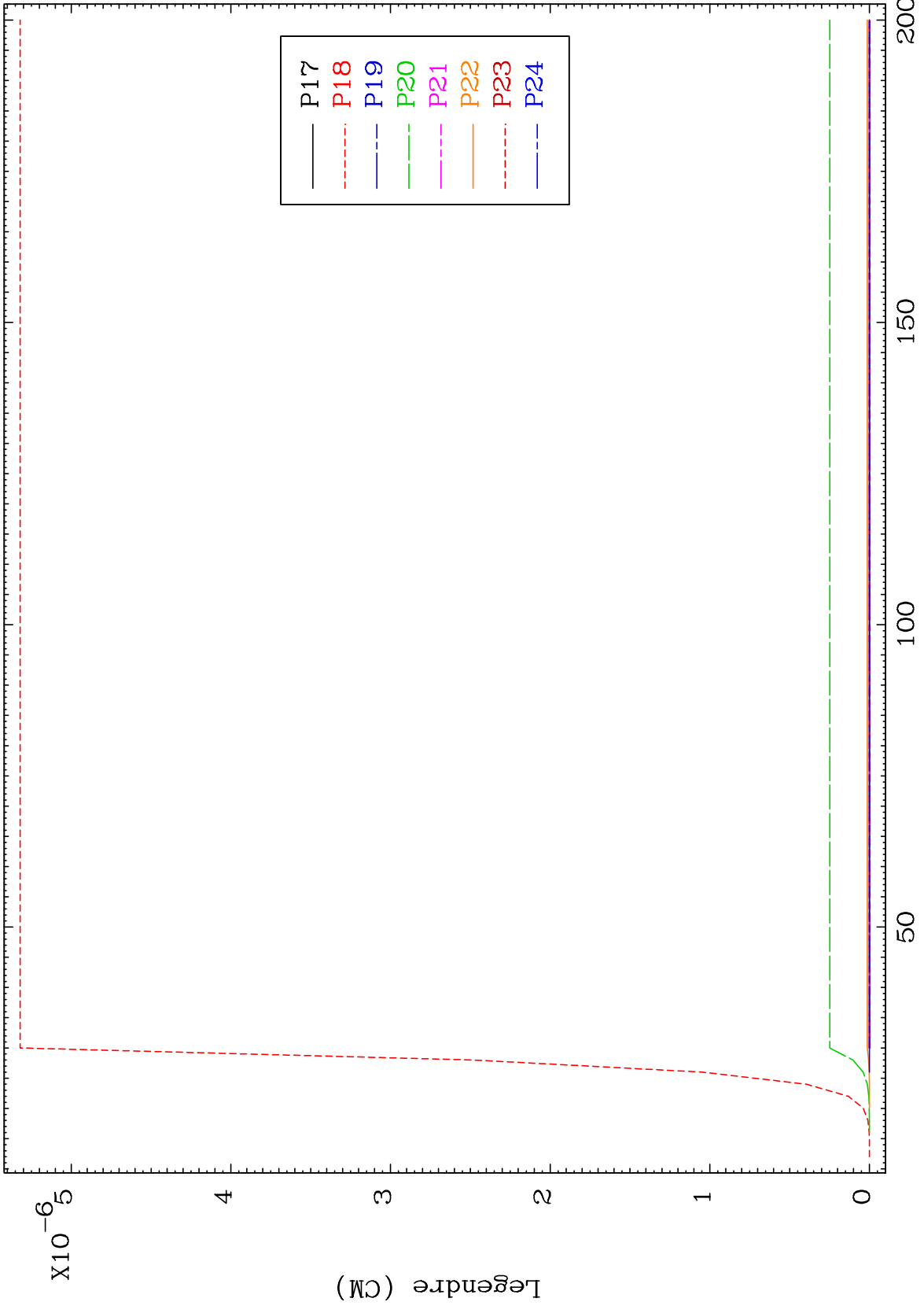
114

MAT 4031 MT= 77 (n,n') Level Legendre Coefficients 40-Zr-92

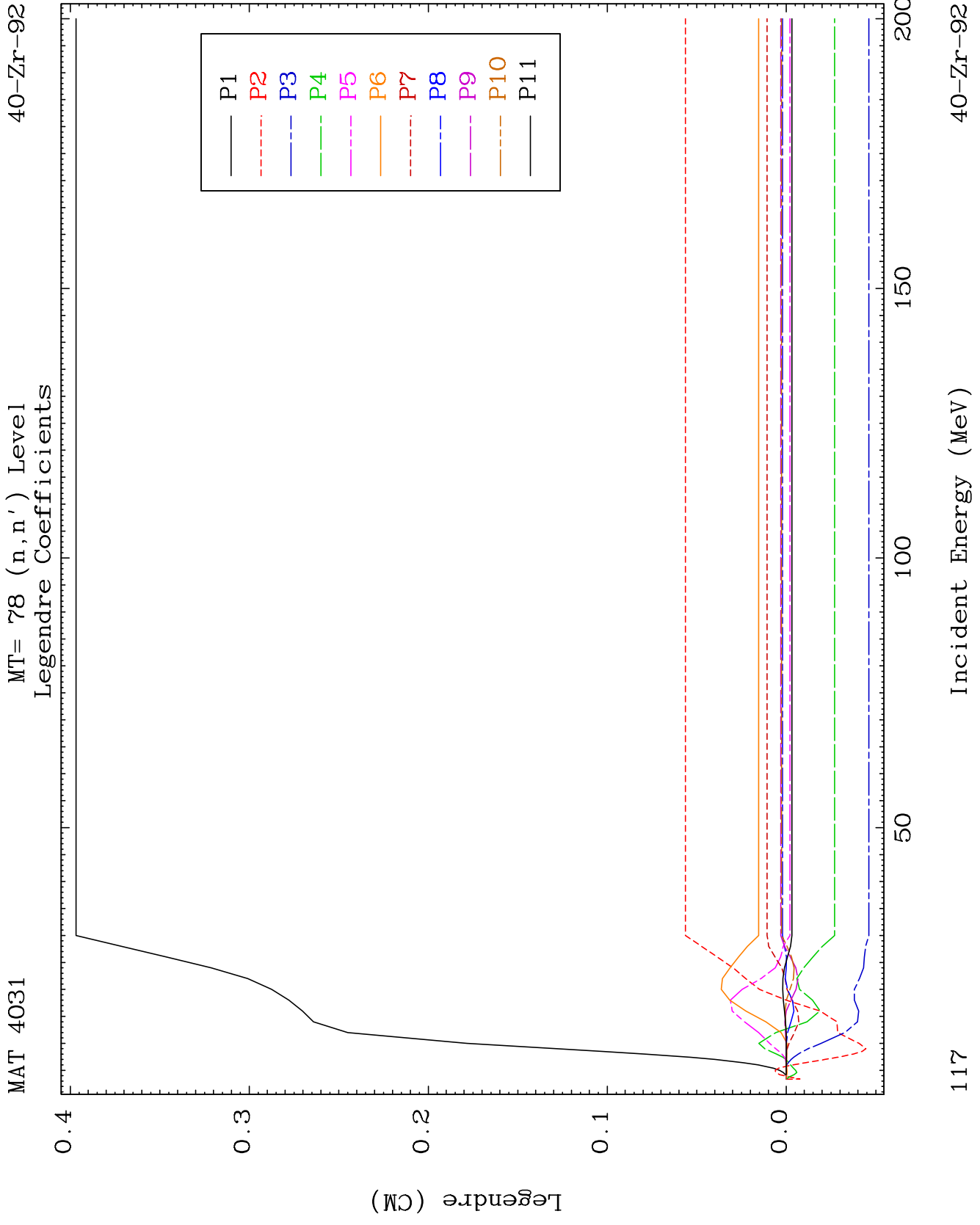


115 40-Zr-92

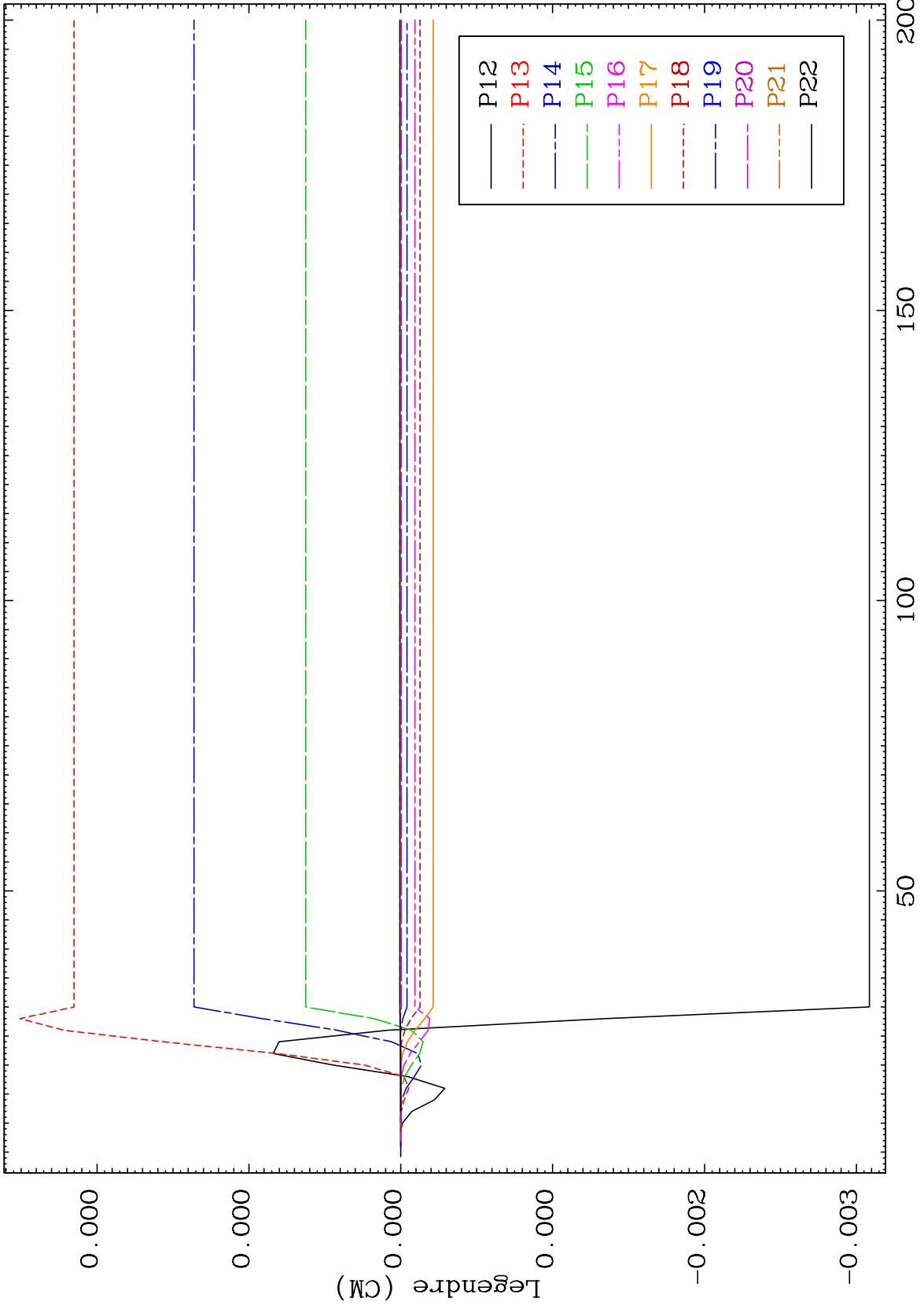
MAT 4031 MT= 77 (n,n') Level Legendre Coefficients 40-Zr-92



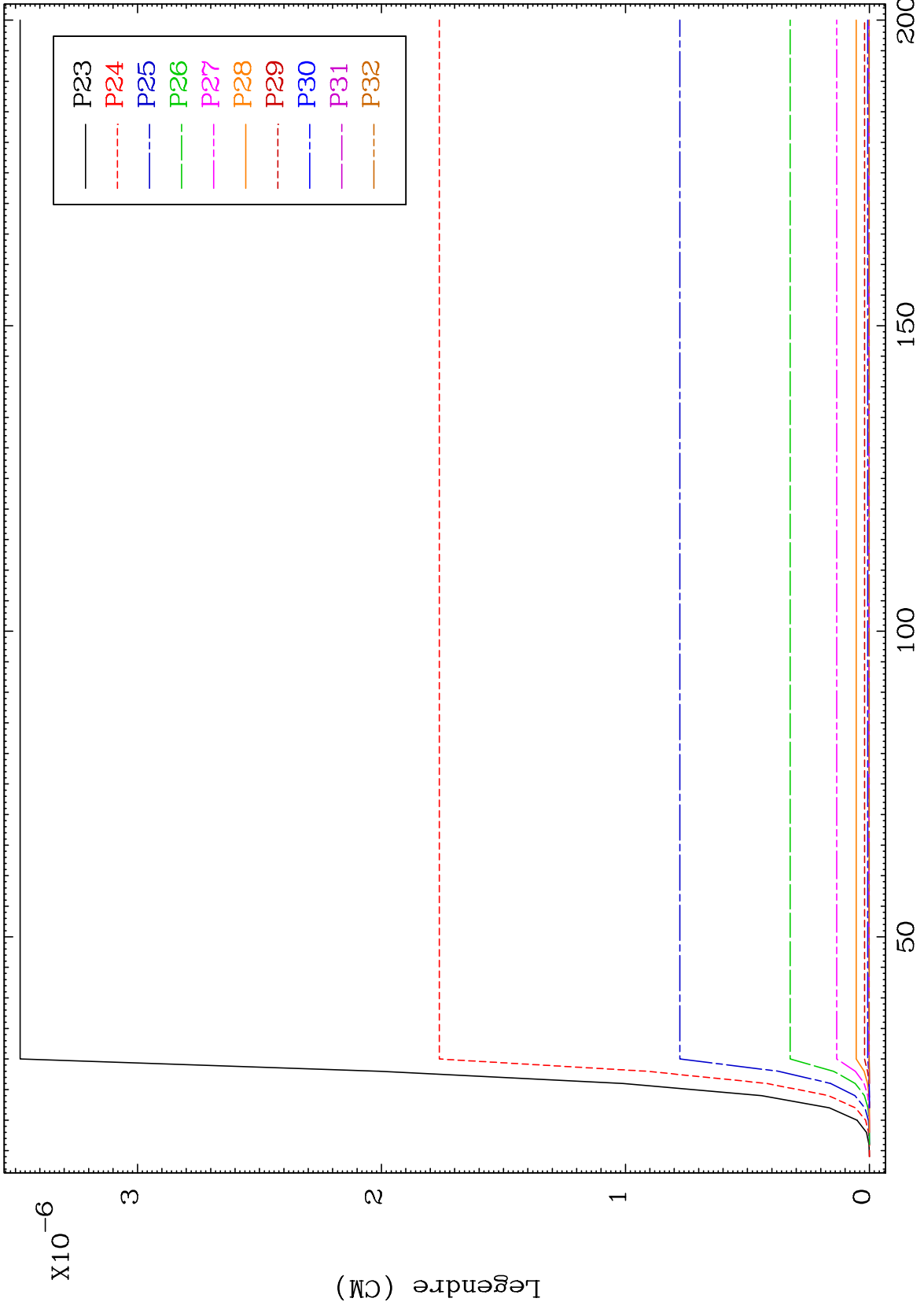
116 40-Zr-92



MAT 4031 MT= 78 (n,n') Level Legendre Coefficients 40-Zr-92

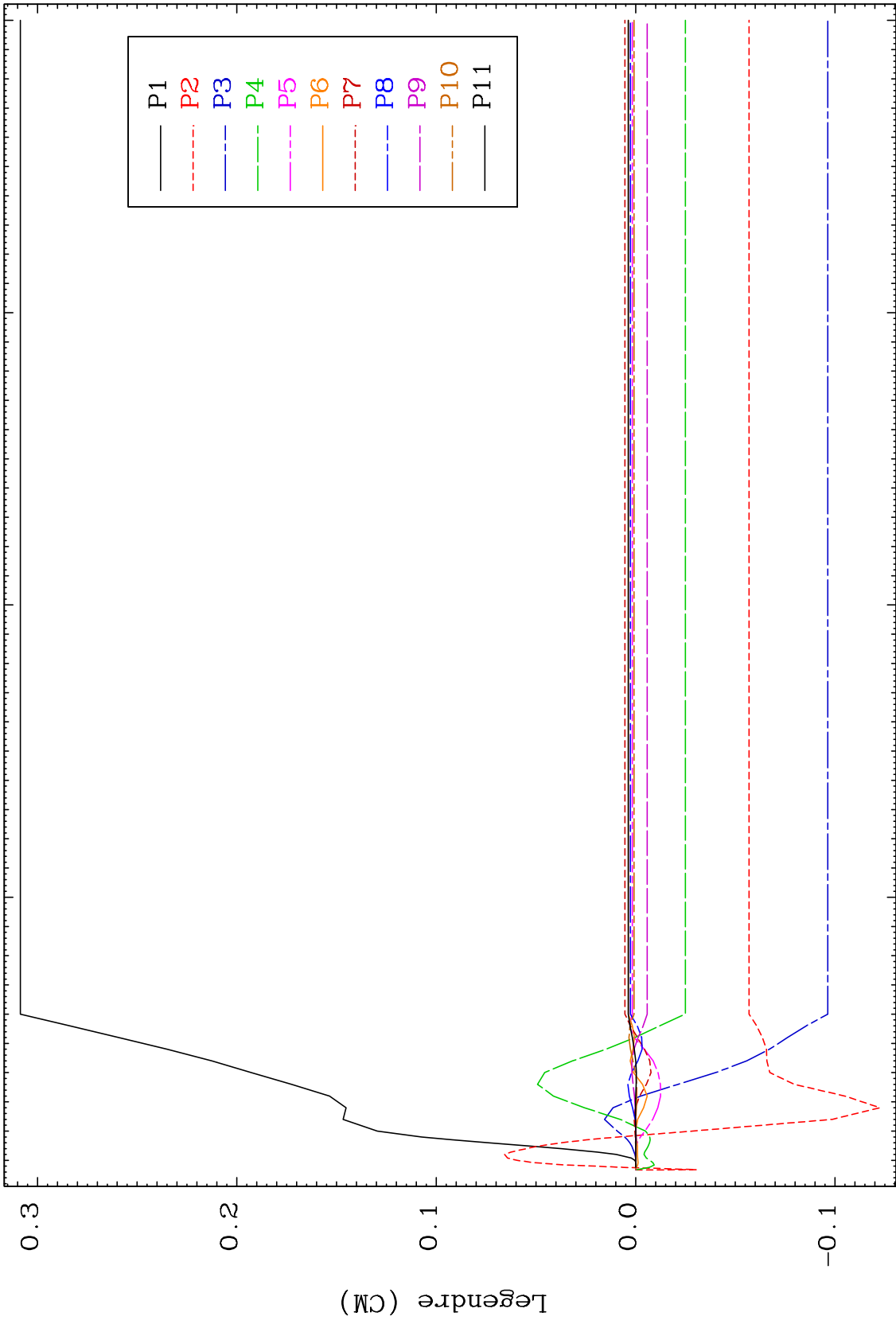


MAT 4031 MT= 78 (n,n') Level Legendre Coefficients 40-Zr-92



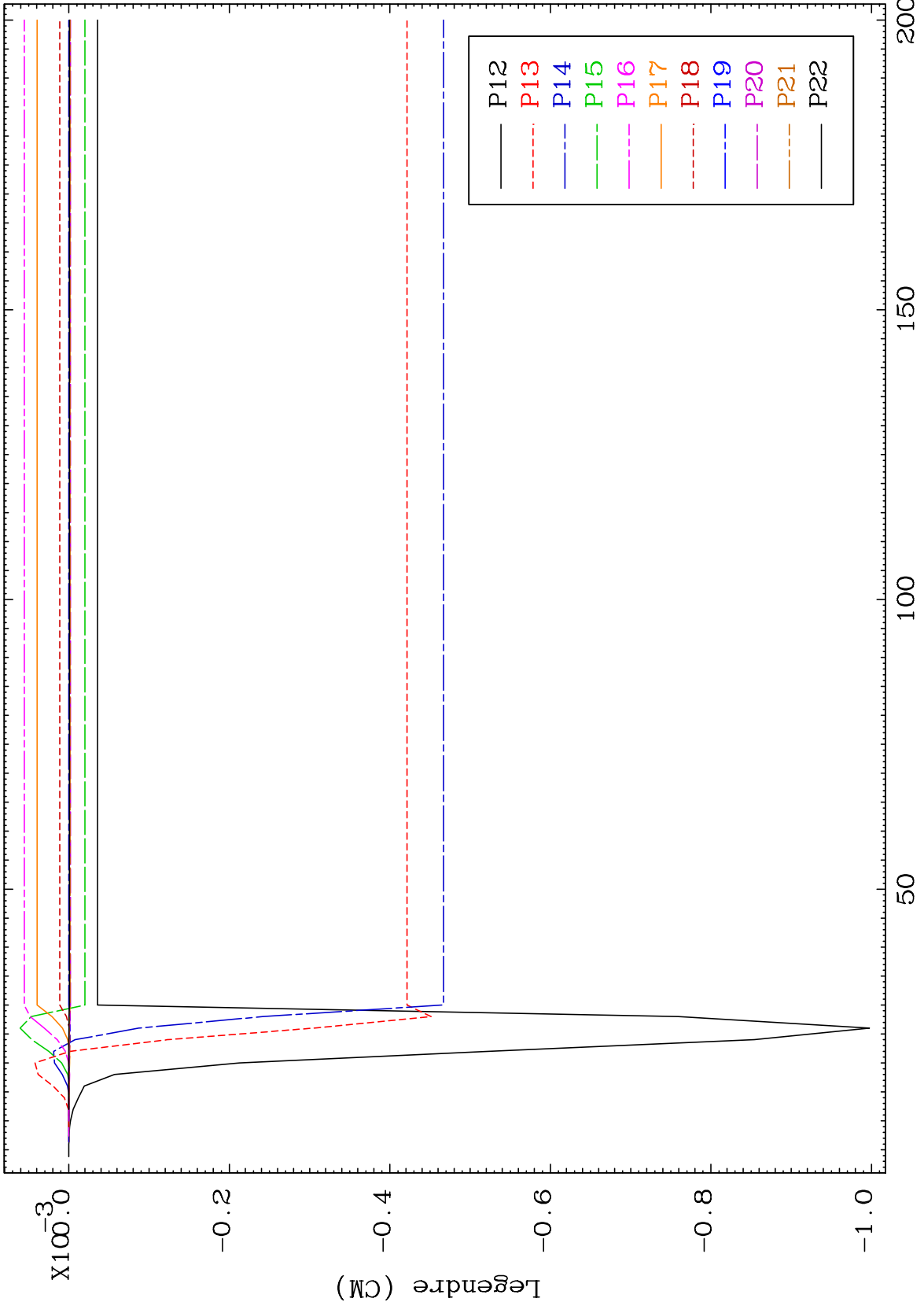
119 40-Zr-92

MAT 4031 MT= 79 (n,n') Level Legendre Coefficients 40-Zr-92



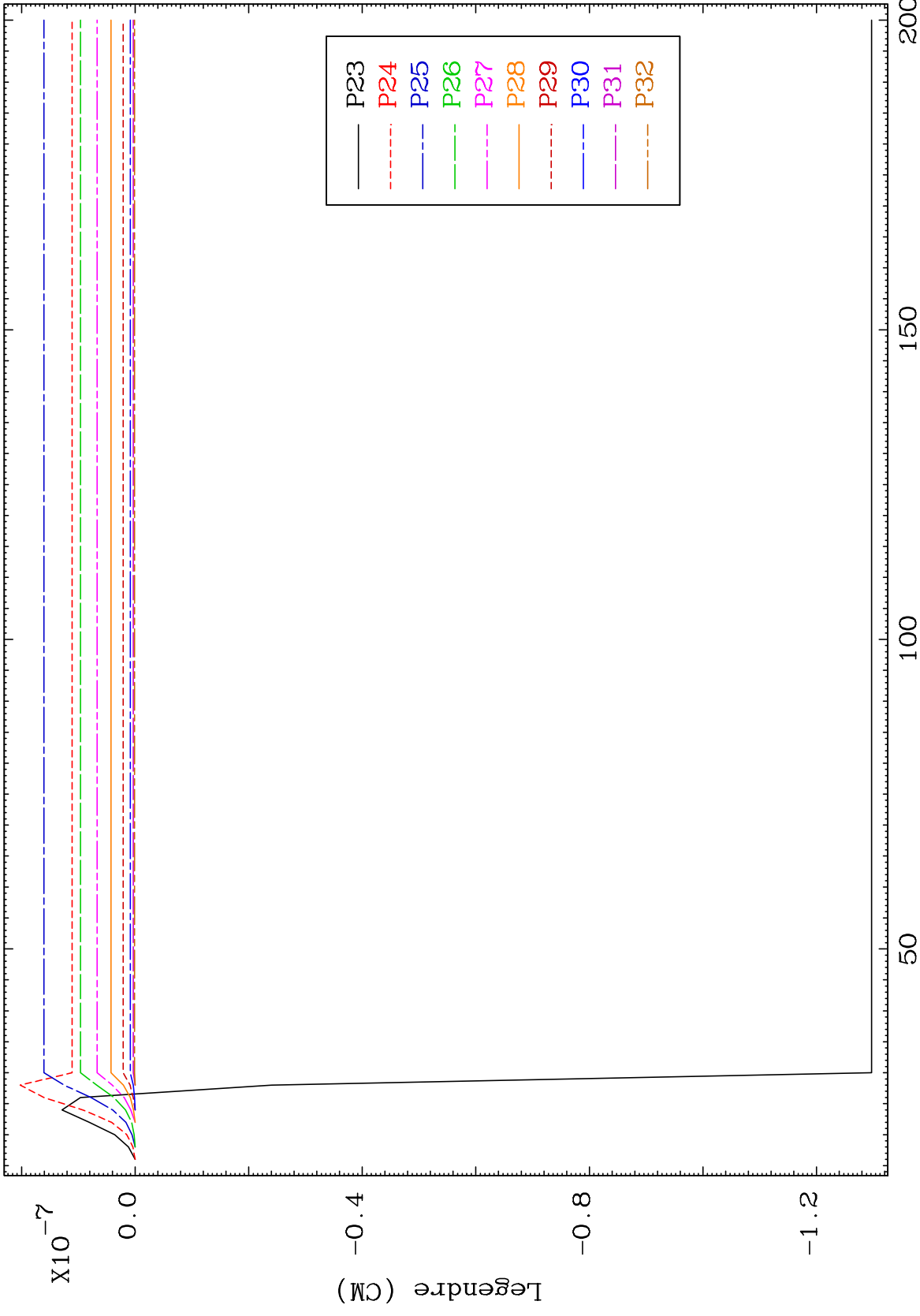
40-Zr-92

MAT 4031 MT= 79 (n,n') Level Legendre Coefficients 40-Zr-92

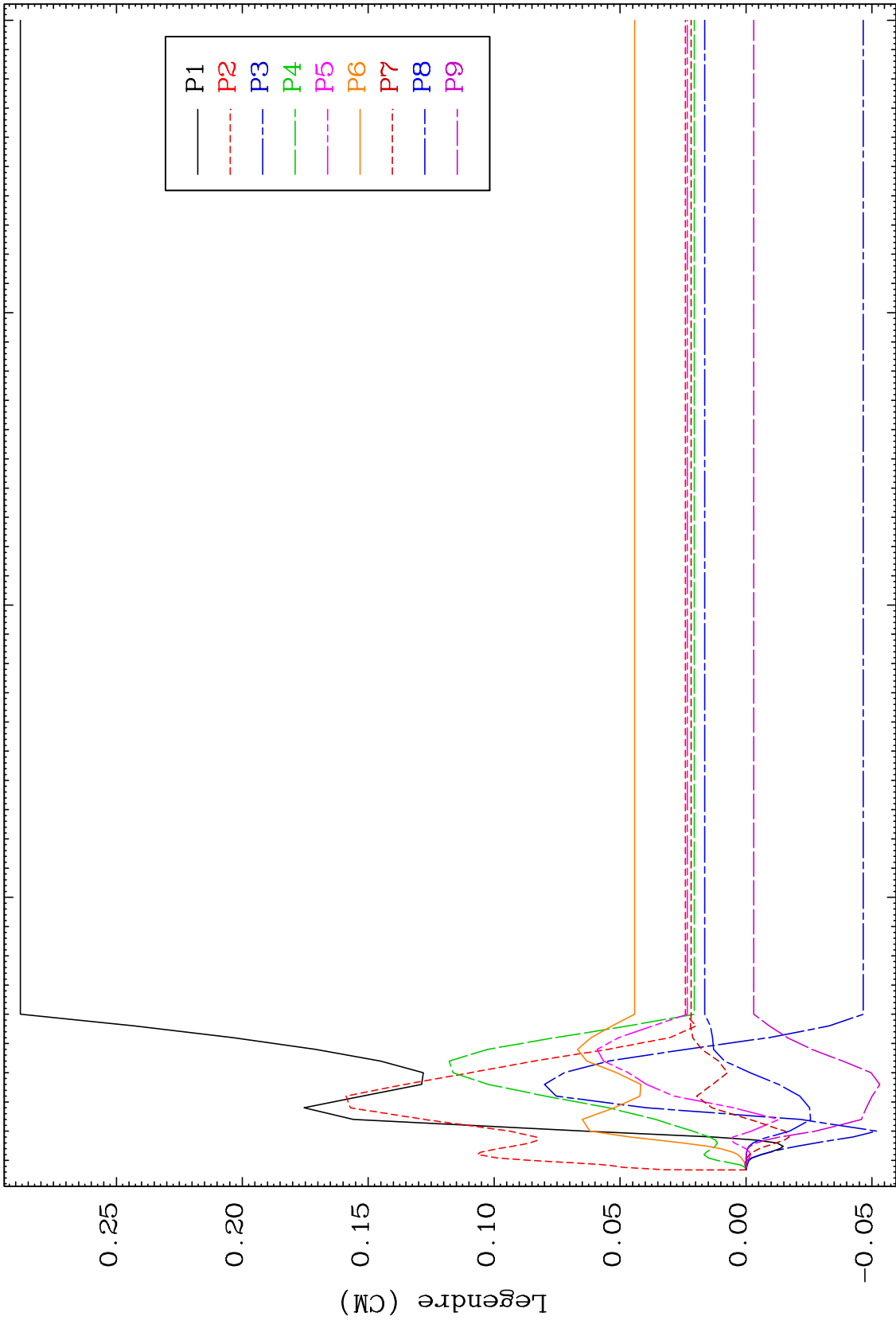


121 Incident Energy (MeV) 40-Zr-92

MAT 4031 MT= 79 (n,n') Level Legendre Coefficients 40-Zr-92



MAT 4031 MT= 80 (n,n') Level Legendre Coefficients 40-Zr-92

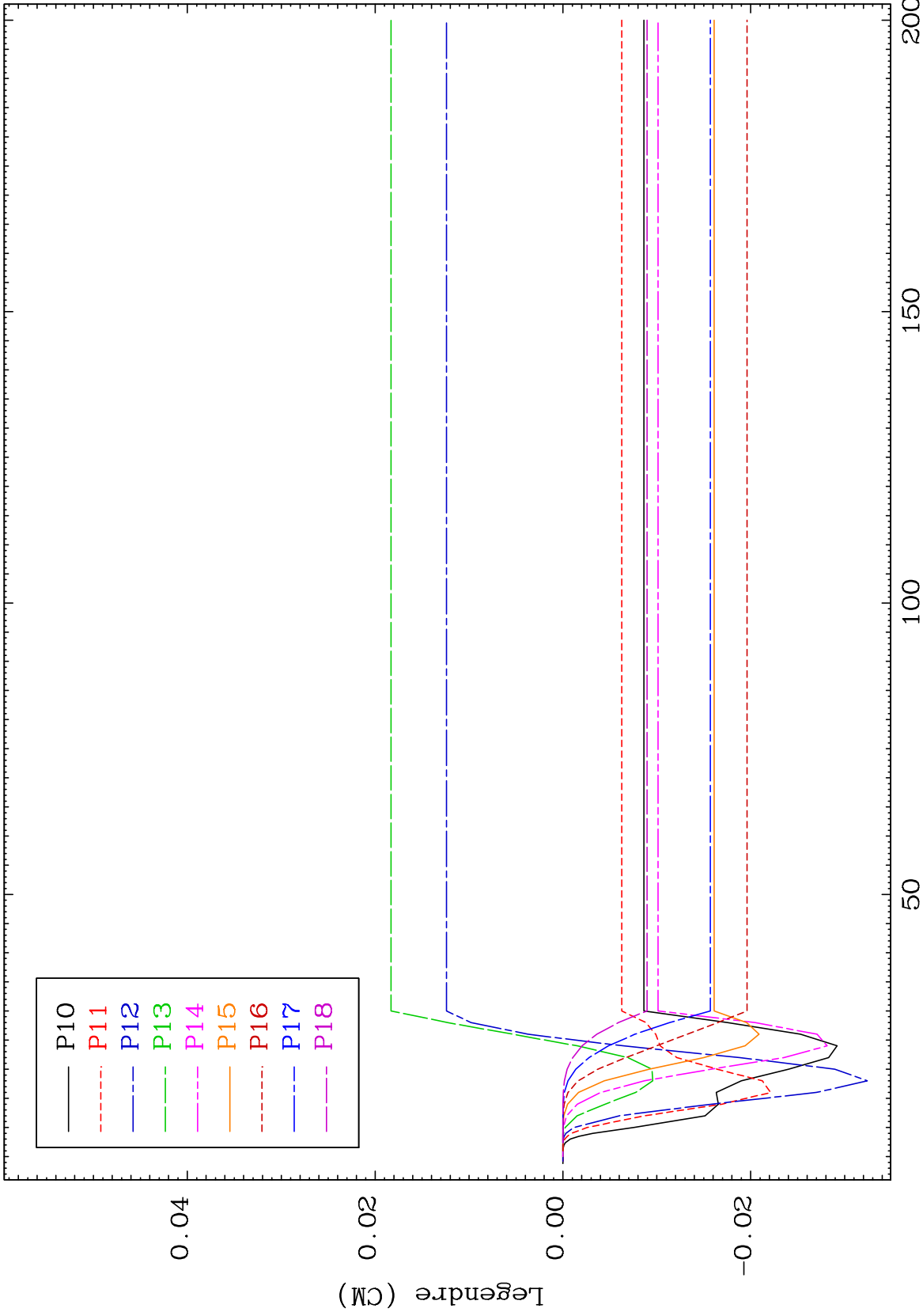


123 Incident Energy (MeV) 40-Zr-92

MAT 4031

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

40-Zr-92

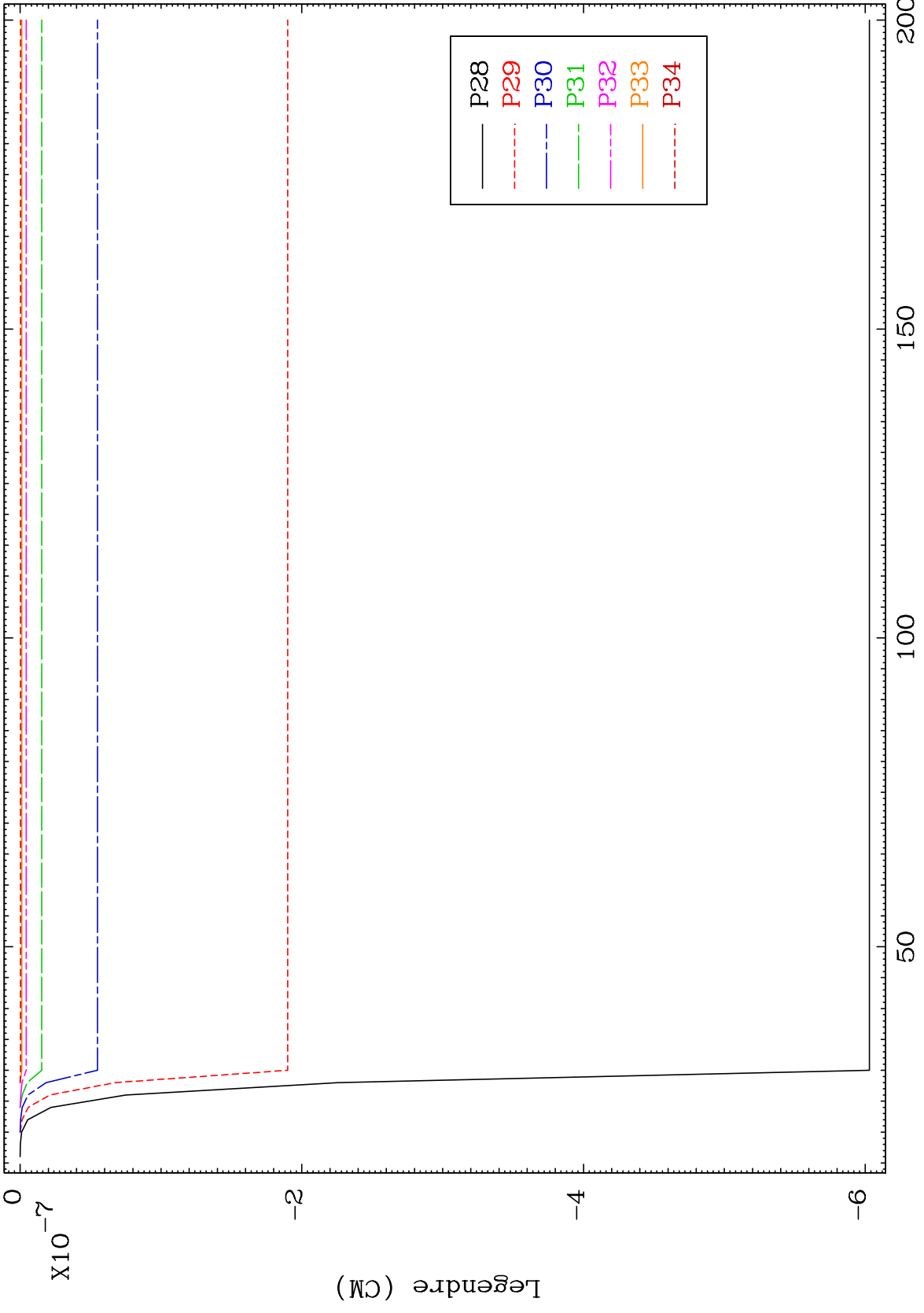


124

Incident Energy (MeV)

40-Zr-92

MAT 4031 MT= 80 (n,n') Level Legendre Coefficients 40-Zr-92



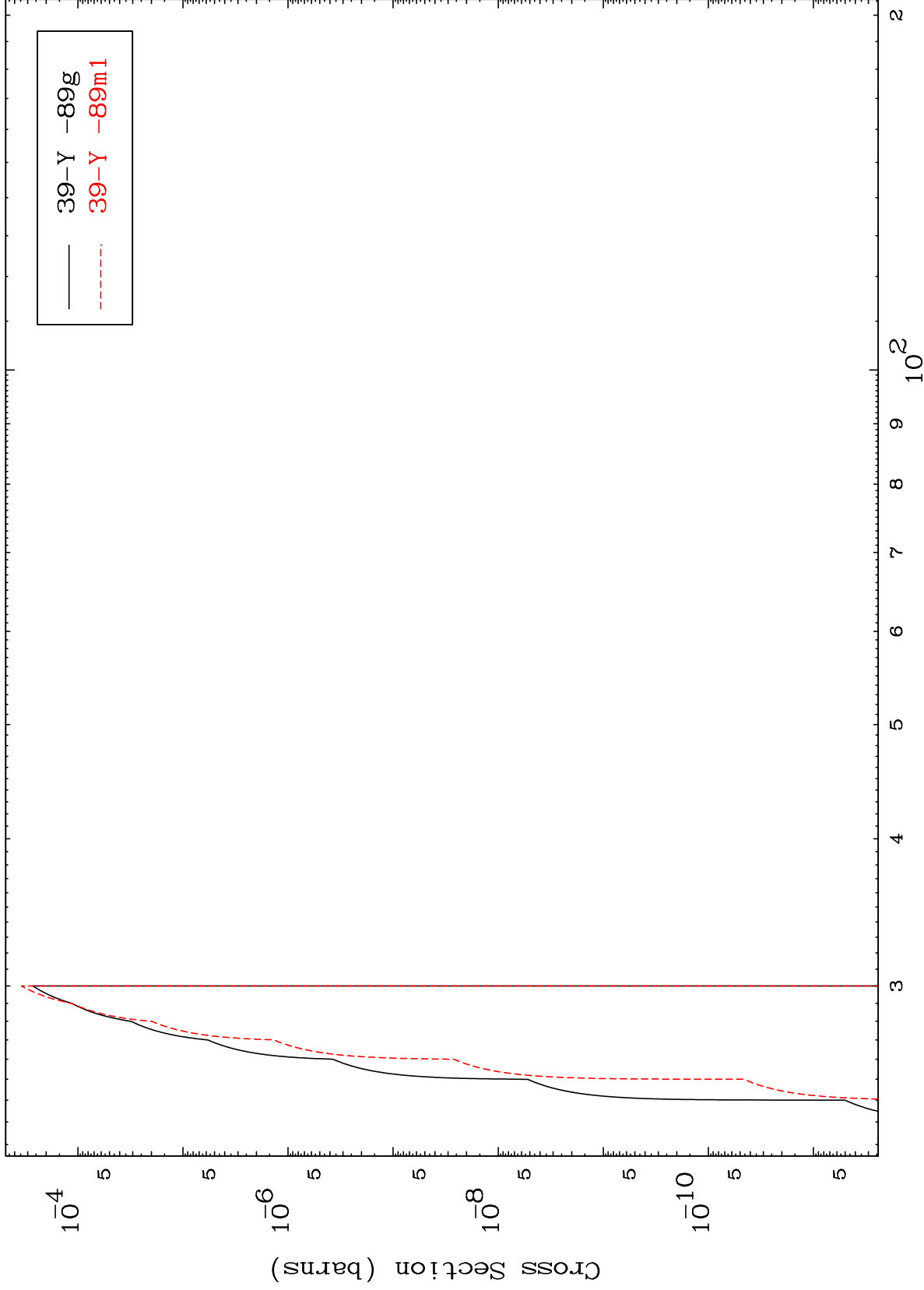
126 40-Zr-92

MAT 4031

(n,2n) d

40-Zr-92

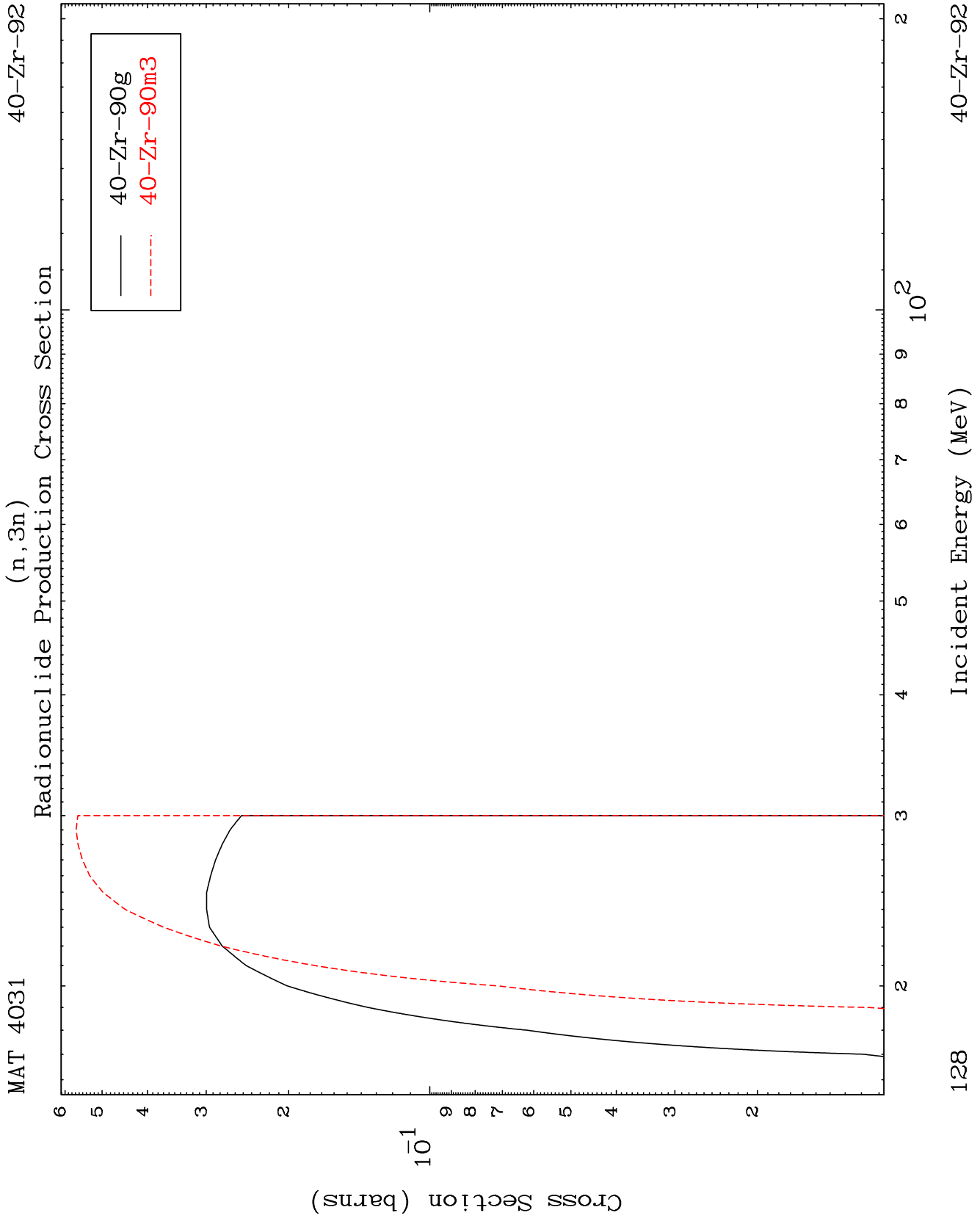
Radionuclide Production Cross Section



127

Incident Energy (MeV)

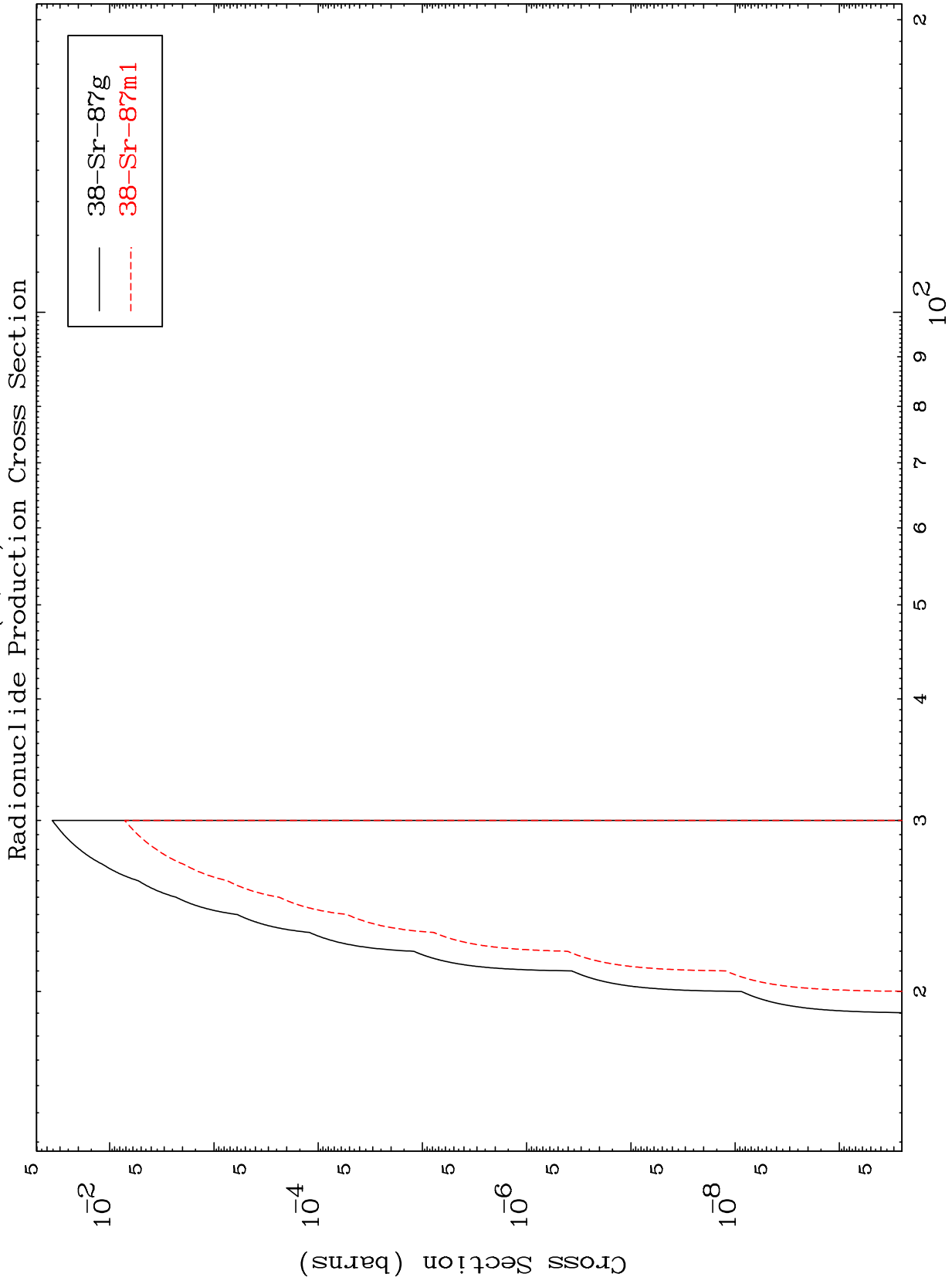
40-Zr-92



MAT 4031

(n,2n) α

40-Zr-92



129

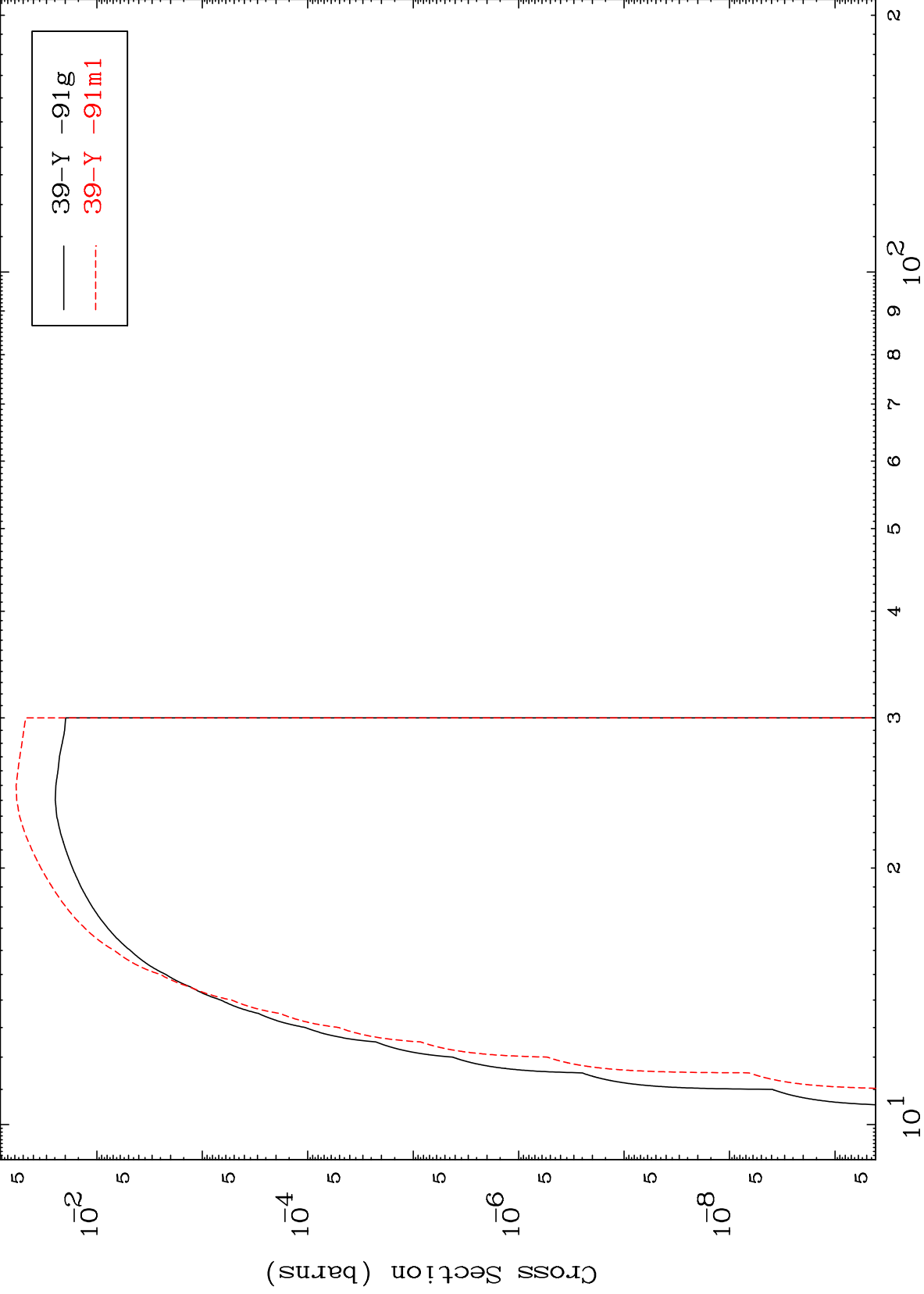
40-Zr-92

MAT 4031

(n,n') p

40-Zr-92

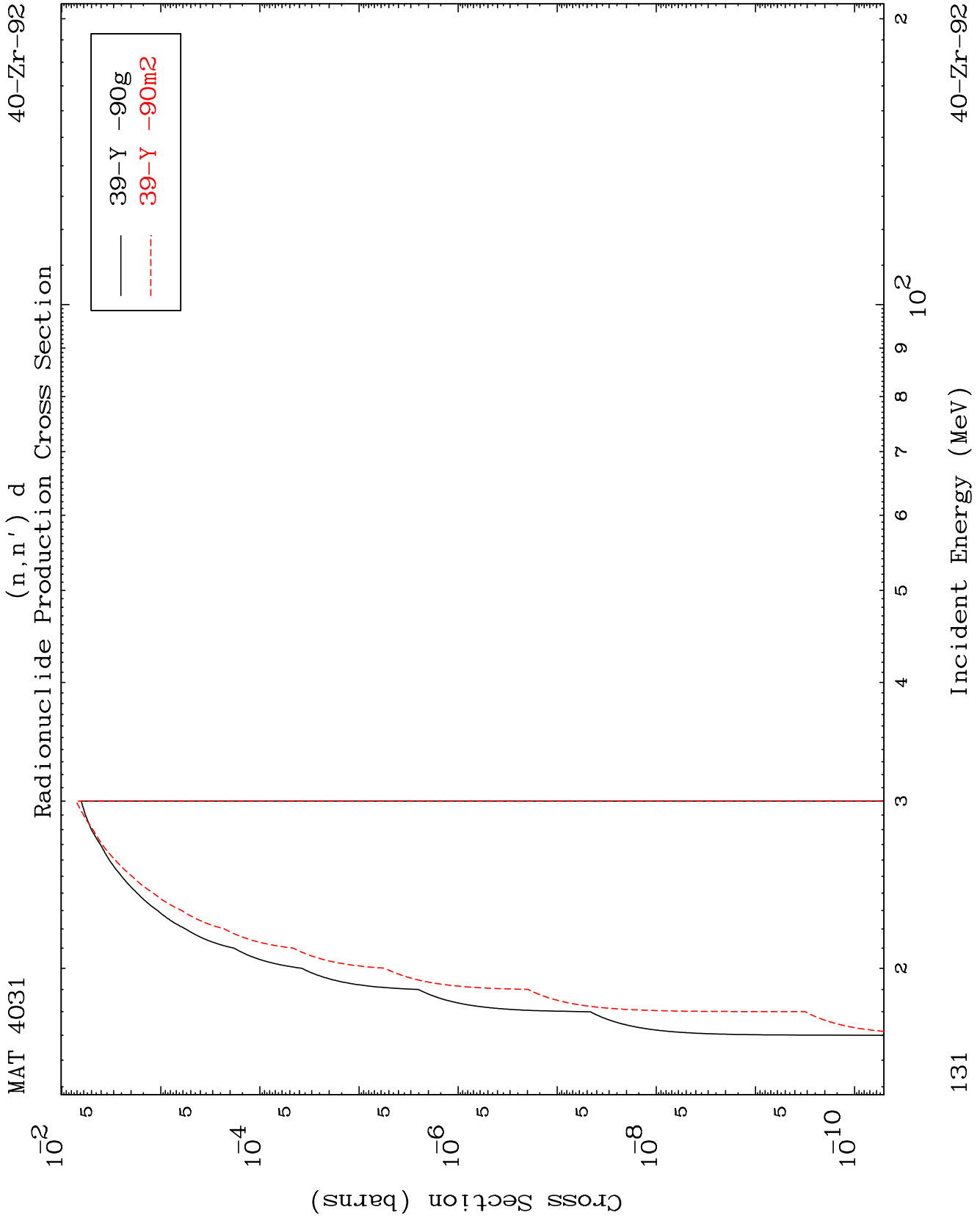
Radionuclide Production Cross Section



130

Incident Energy (MeV)

40-Zr-92

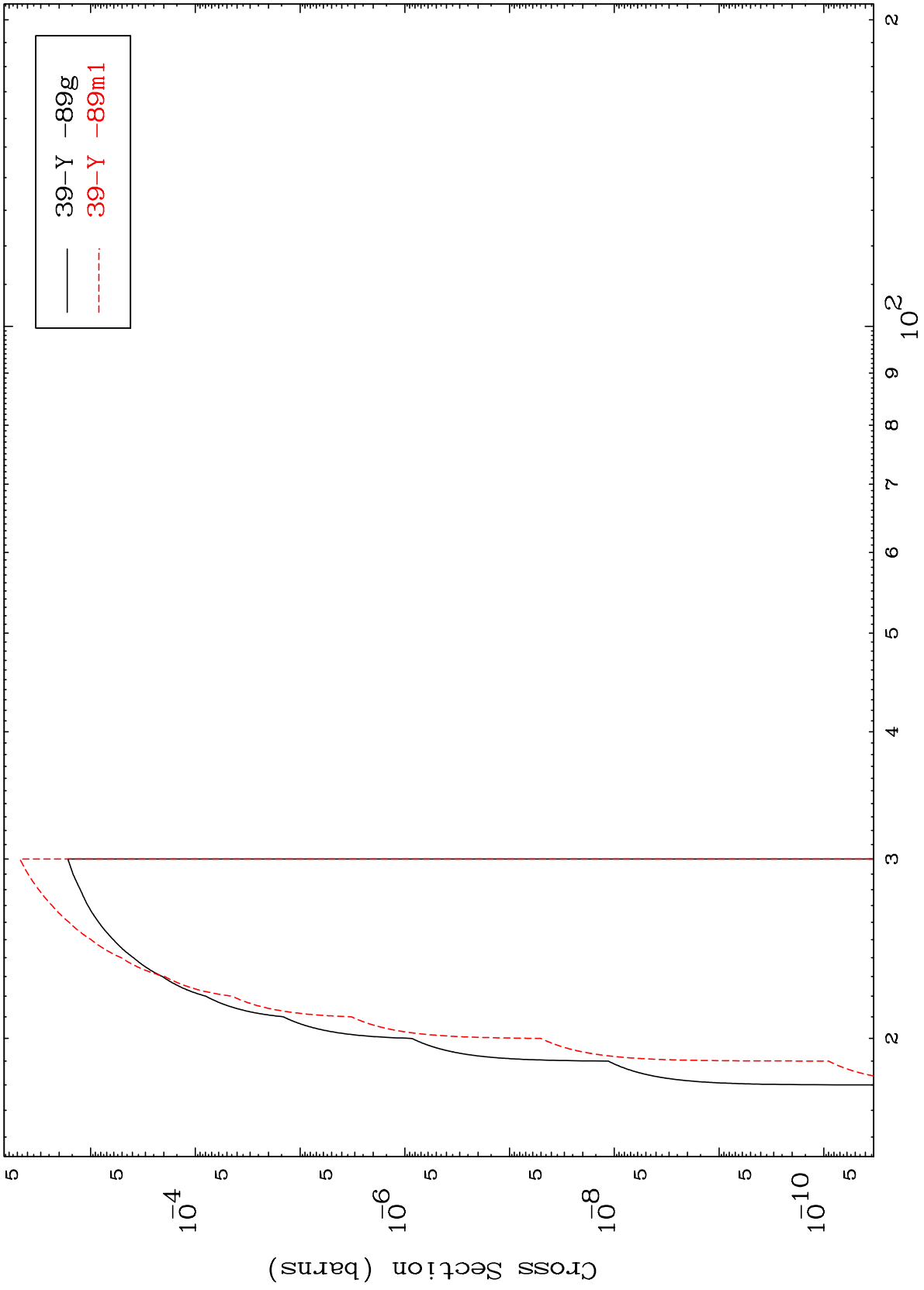


MAT 4031

(n,n') t

40-Zr-92

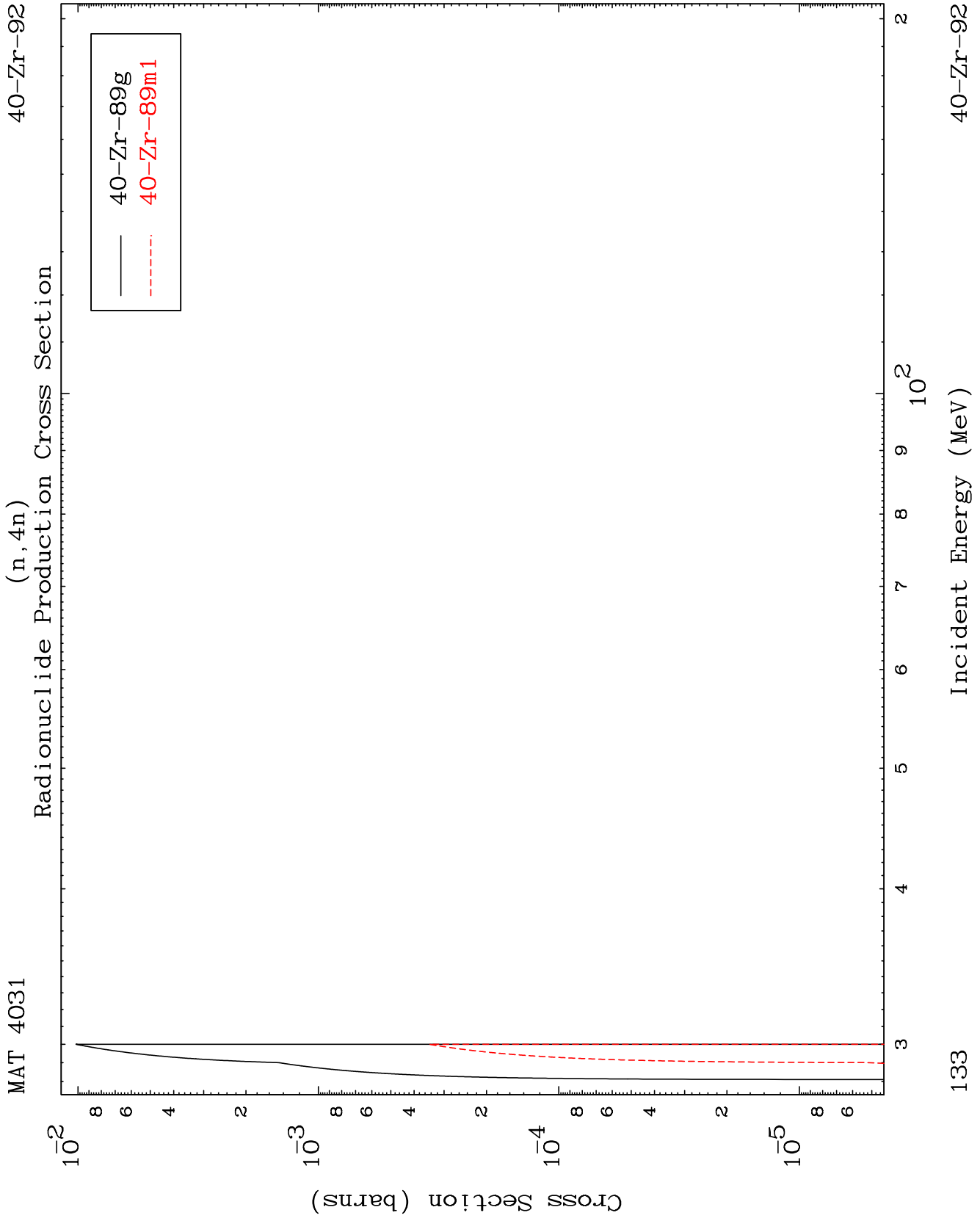
Radionuclide Production Cross Section



132

Incident Energy (MeV)

40-Zr-92

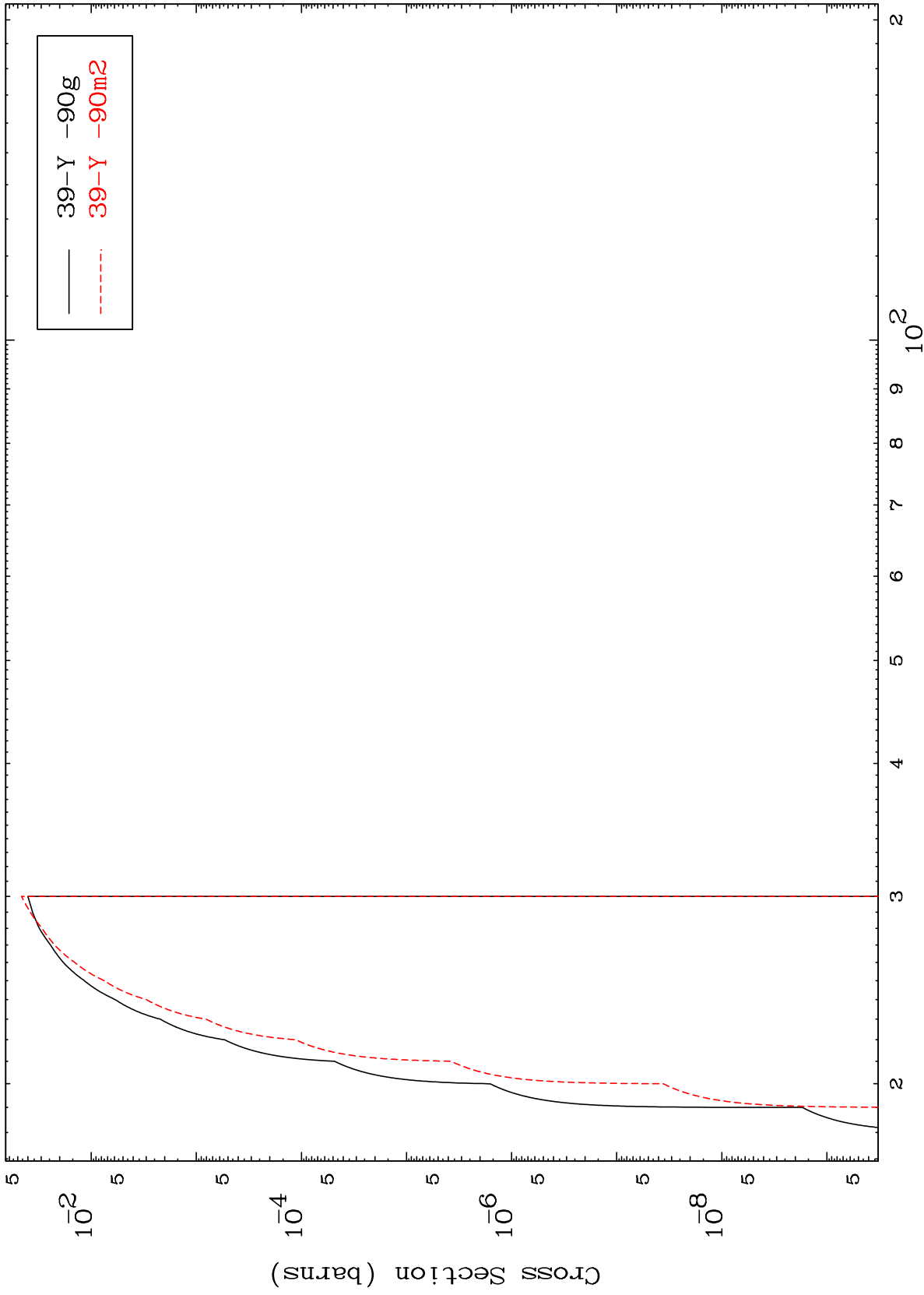


MAT 4031

(n,2n) p

40-Zr-92

Radionuclide Production Cross Section



134

Incident Energy (MeV)

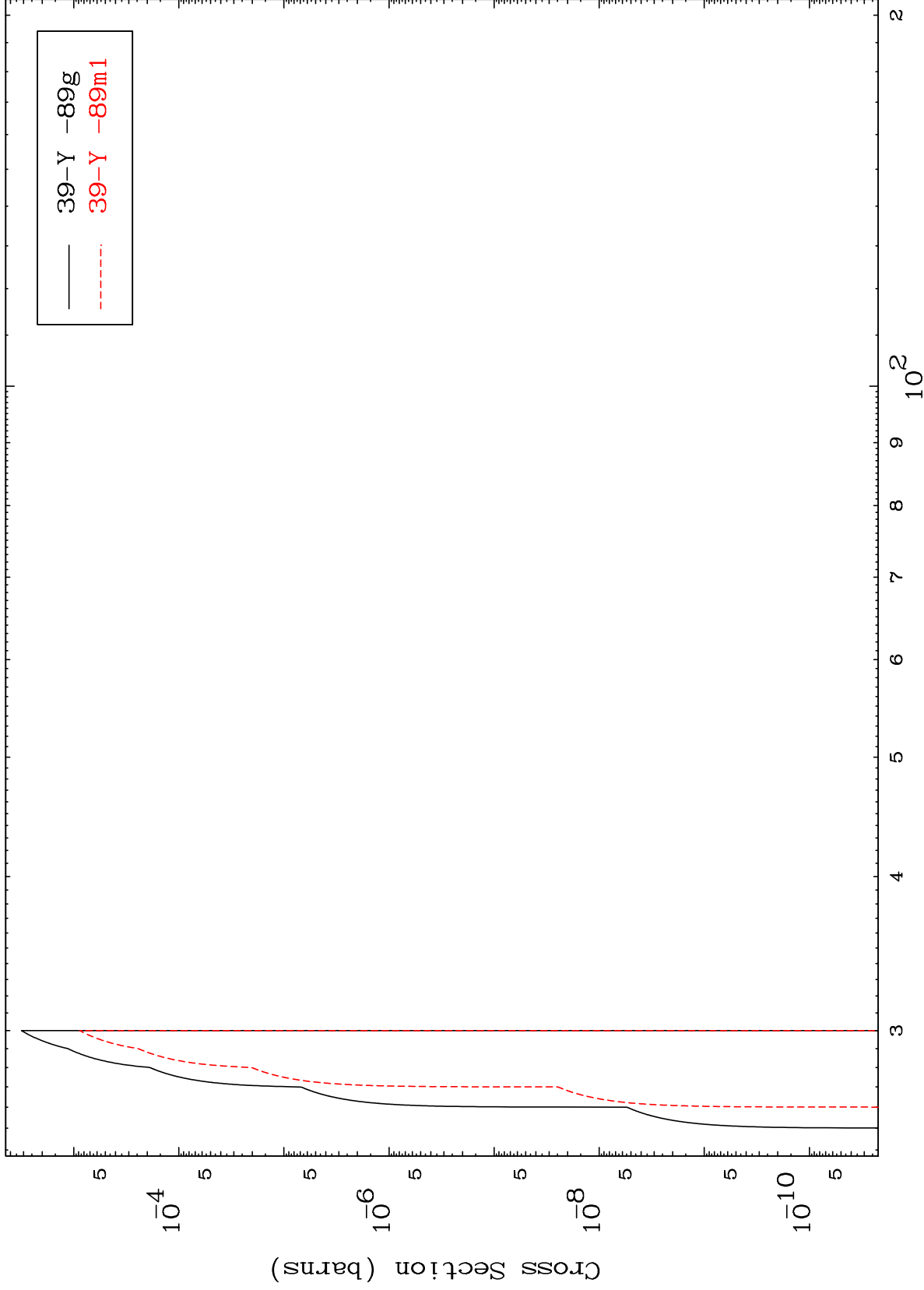
40-Zr-92

MAT 4031

(n,3n) p

40-Zr-92

Radionuclide Production Cross Section



135

Incident Energy (MeV)

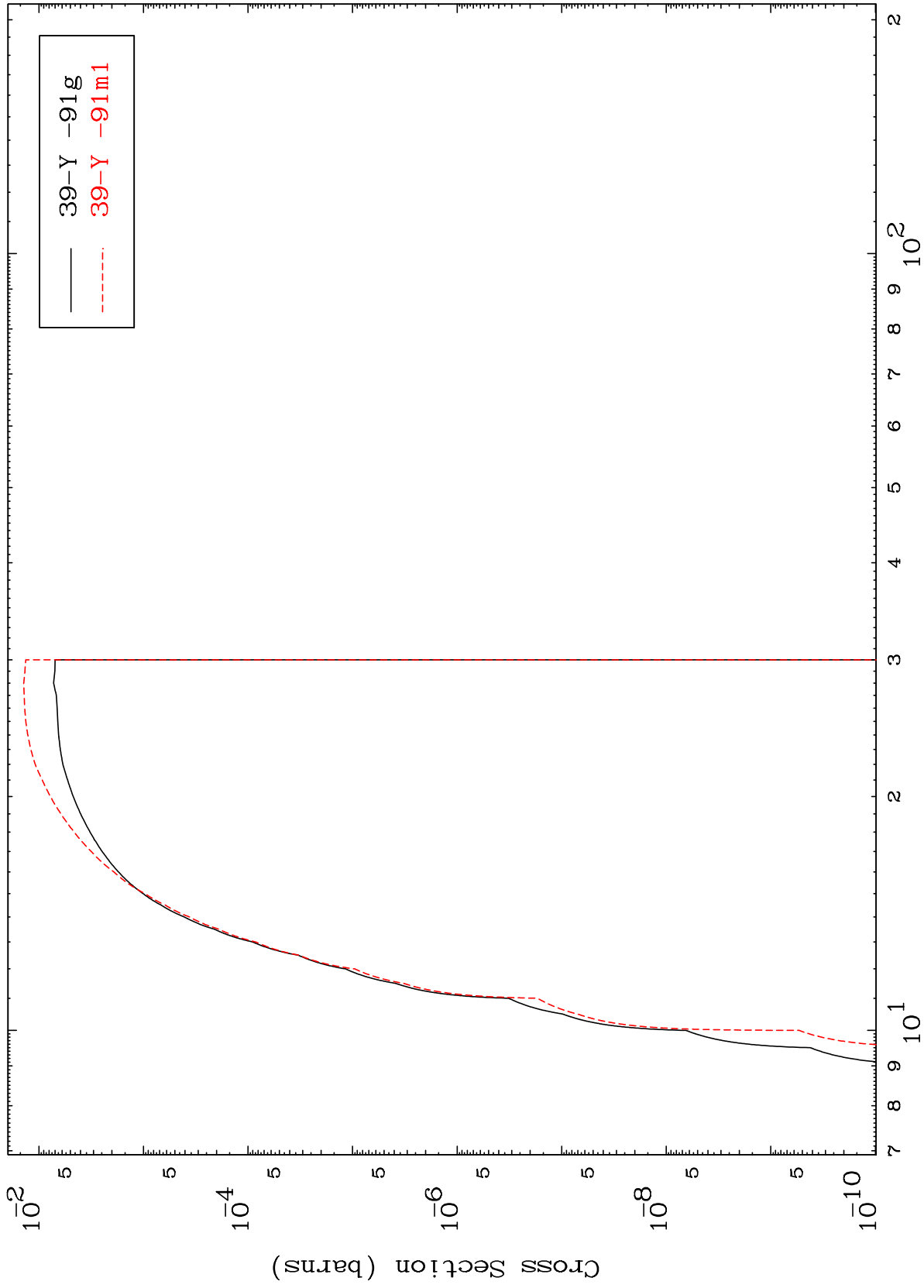
40-Zr-92

MAT 4031

(n,d)

40-Zr-92

Radionuclide Production Cross Section



136

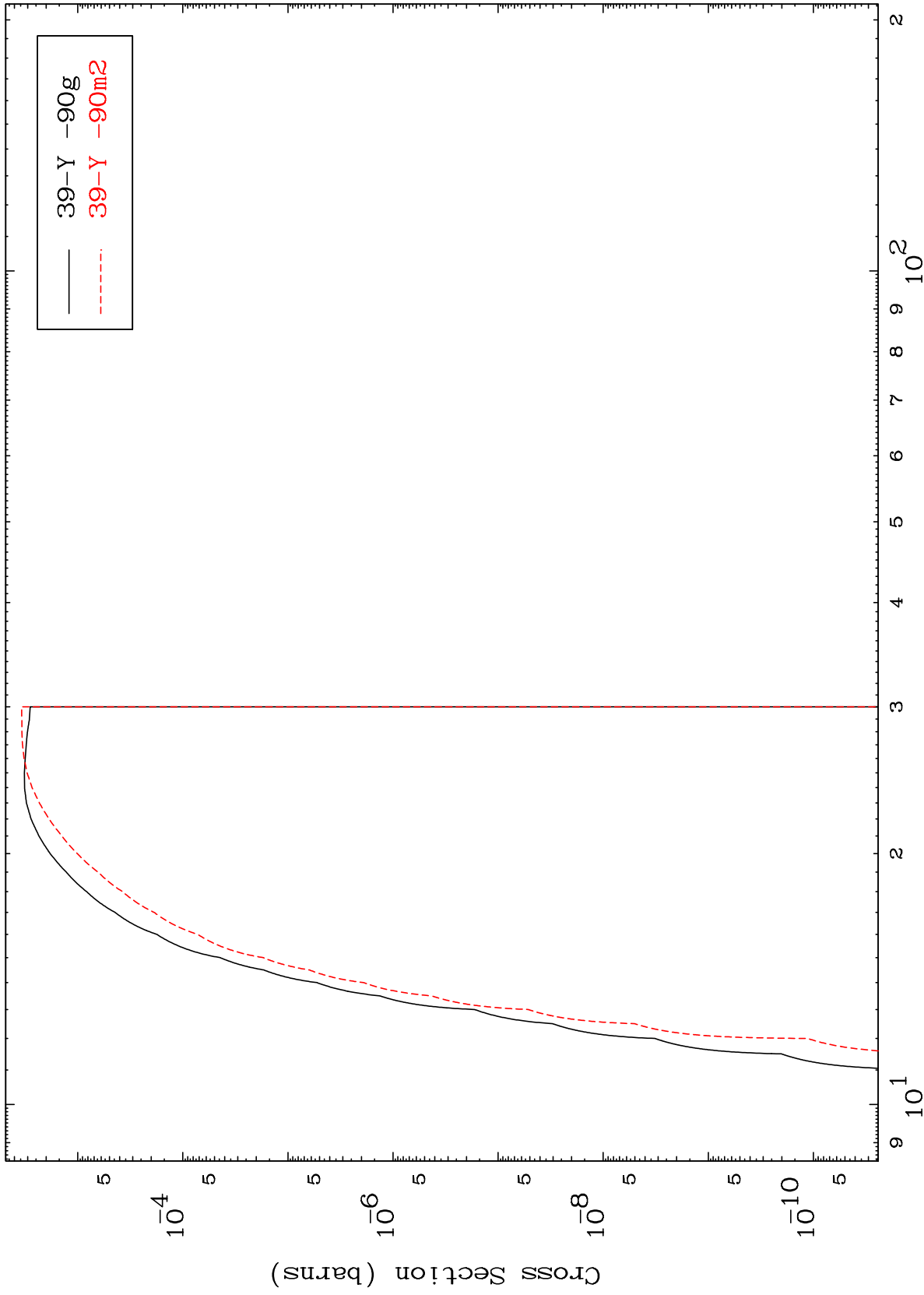
Incident Energy (MeV)

40-Zr-92

MAT 4031

40-Zr-92

(n, t)
Radionuclide Production Cross Section



137

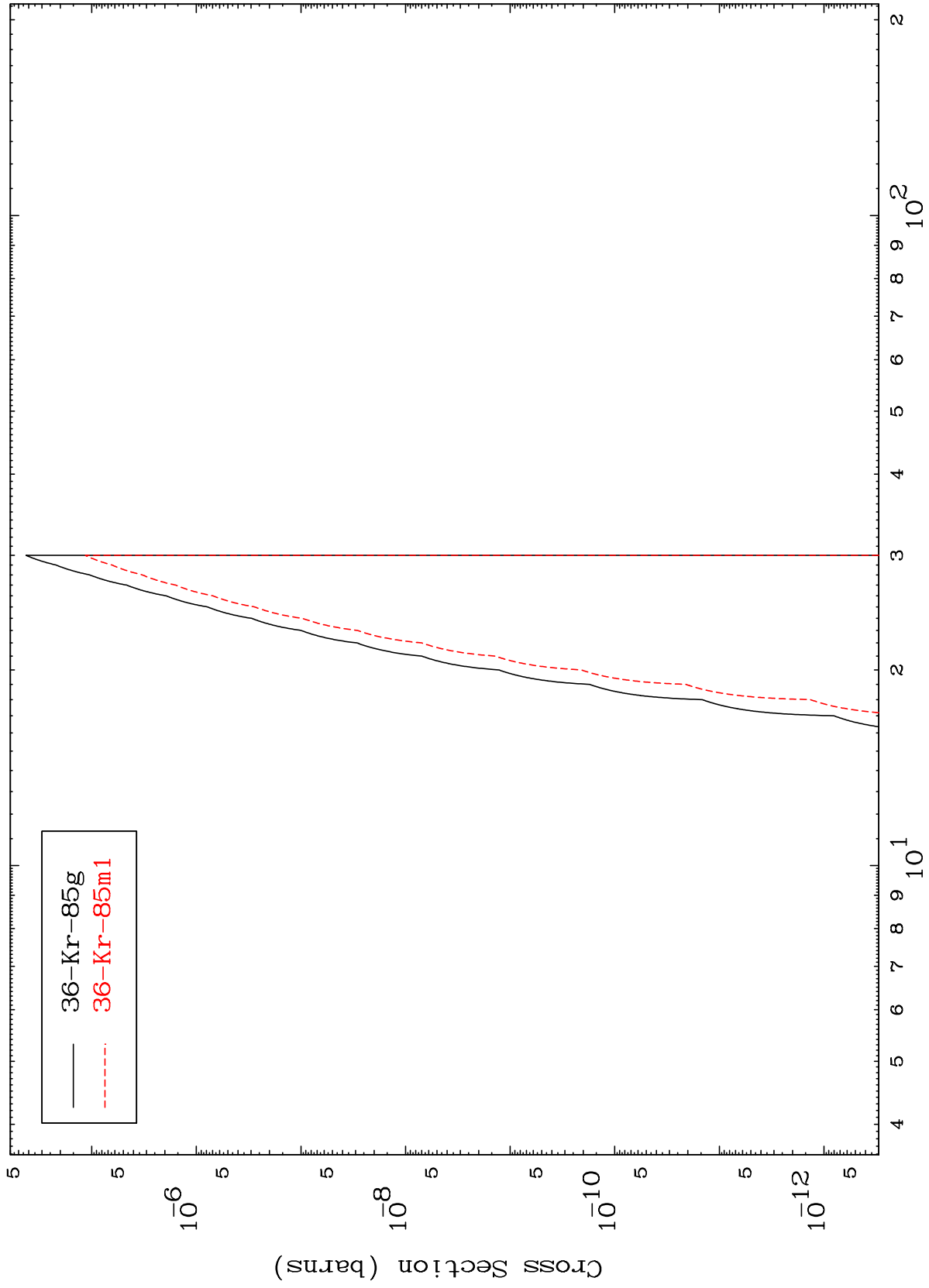
Incident Energy (MeV)

40-Zr-92

MAT 4031

40-Zr-92

Radionuclide Production Cross Section



138

40-Zr-92