

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

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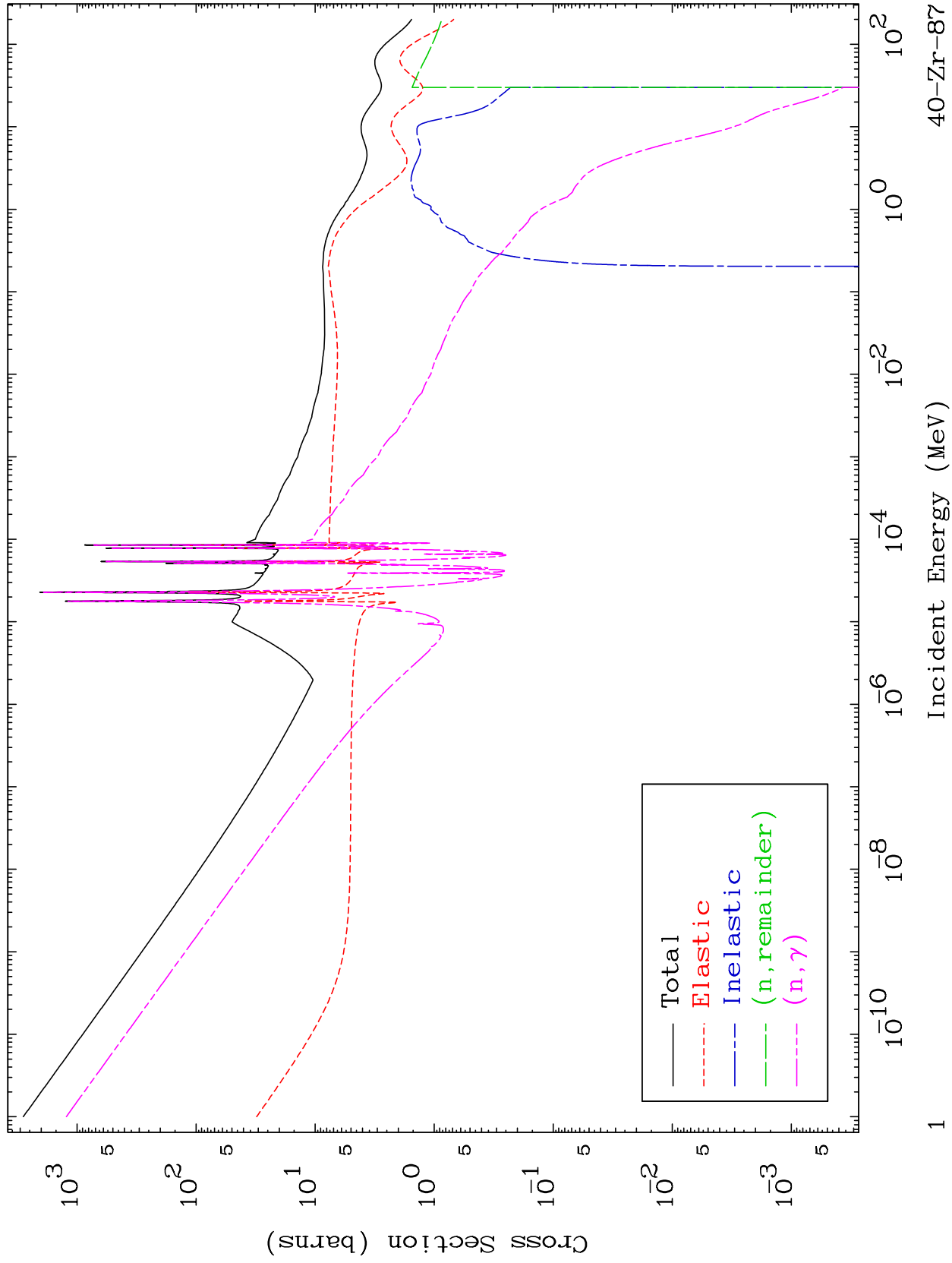
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4016

Major
293 Kelvin Cross Sections

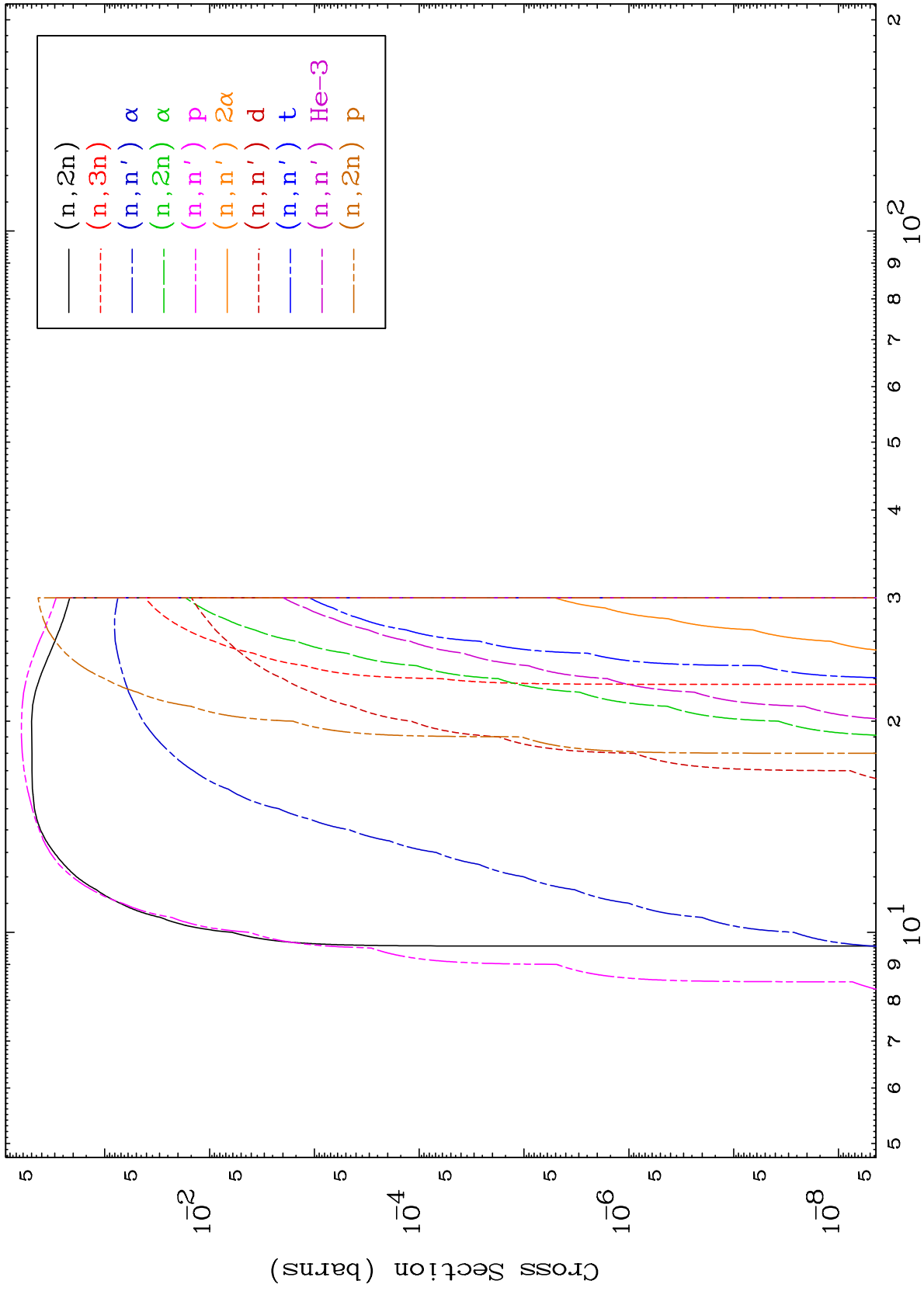
40-Zr-87



MAT 4016

Neutron Production
293 Kelvin Cross Sections

40-Zr-87



2

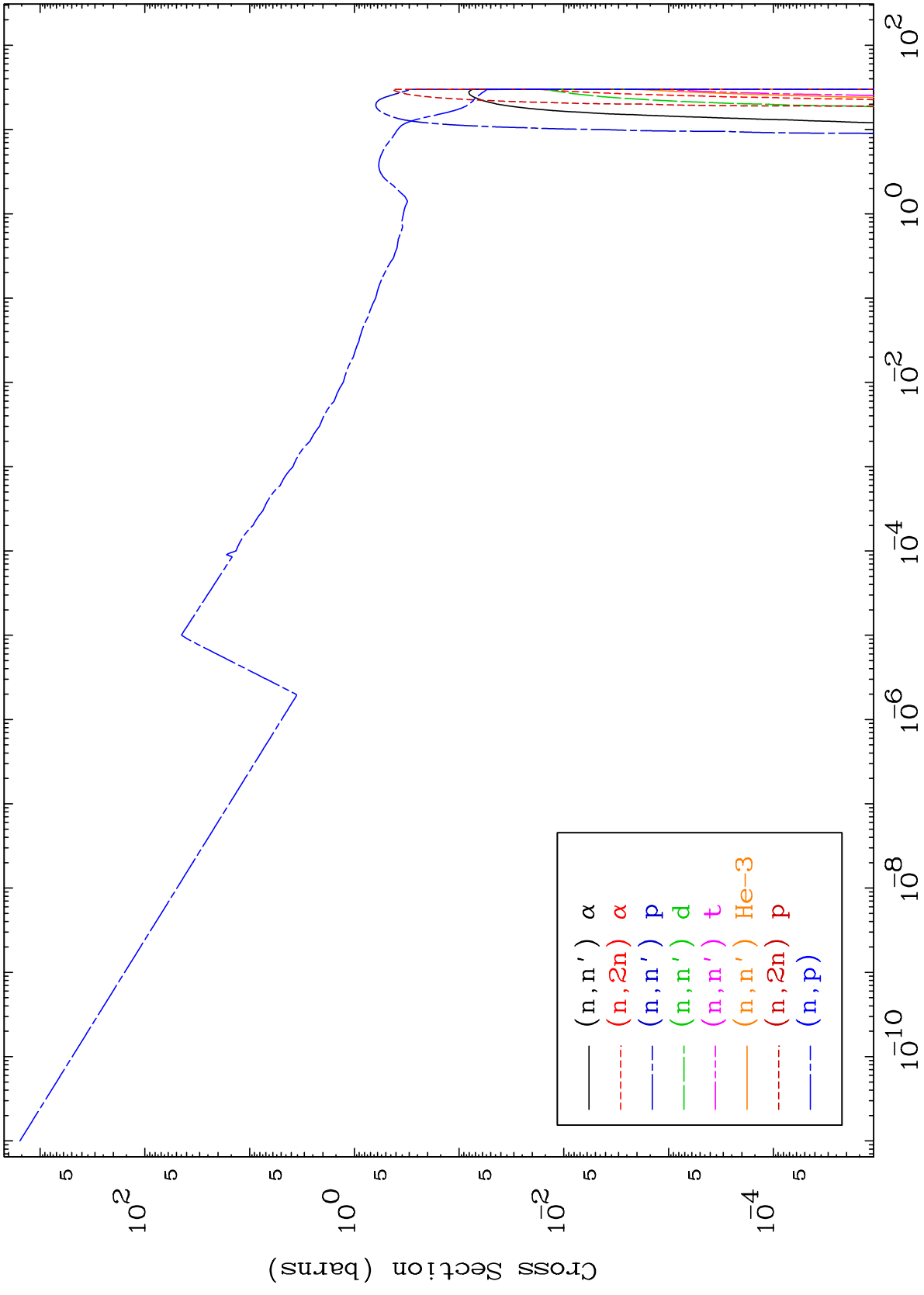
Incident Energy (MeV)

40-Zr-87

MAT 4016

293 Kelvin Cross Sections

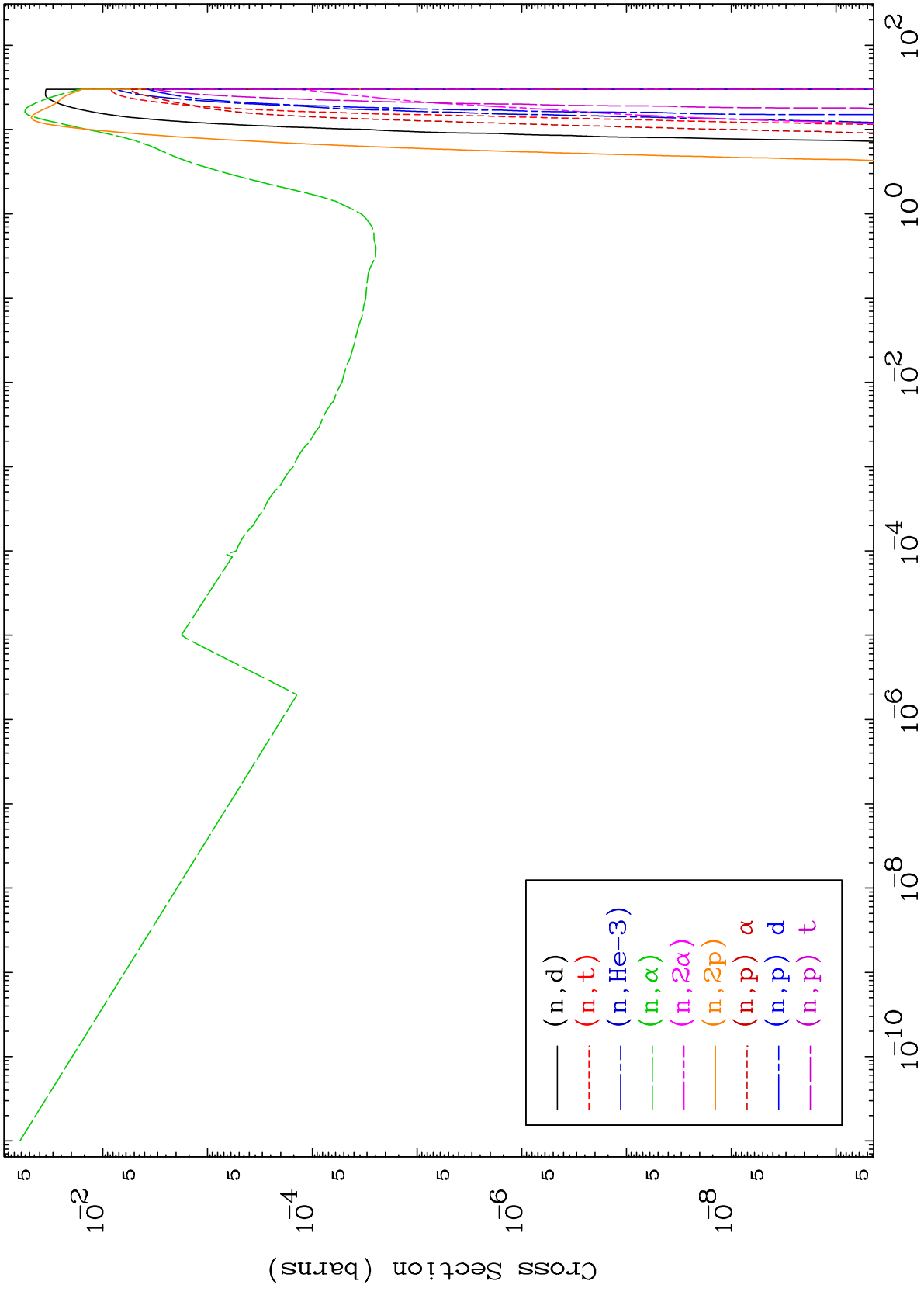
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MAT 4016

293 Kelvin Cross Sections

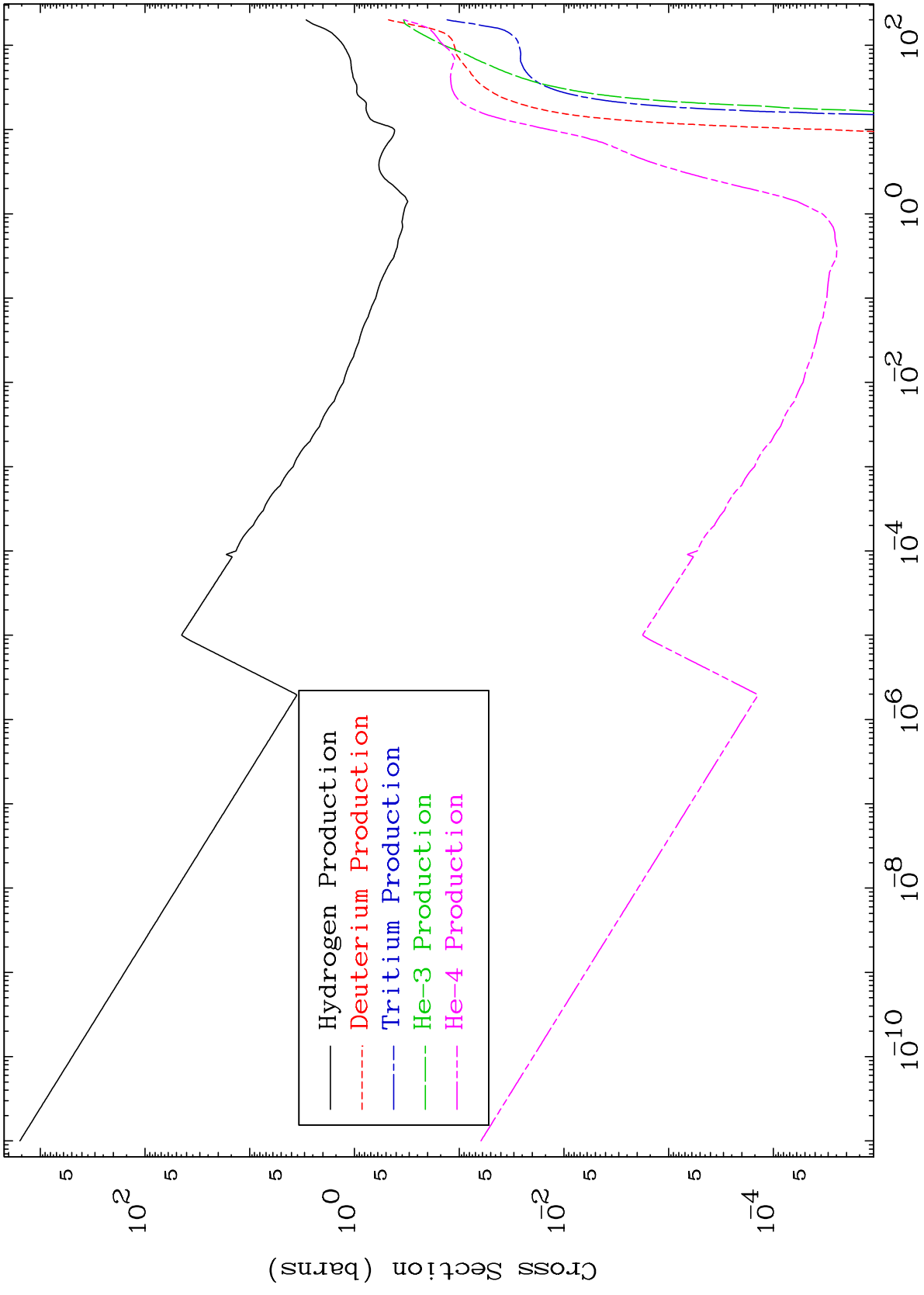
40-Zr-87



MAT 4016

Particle Production
293 Kelvin Cross Sections

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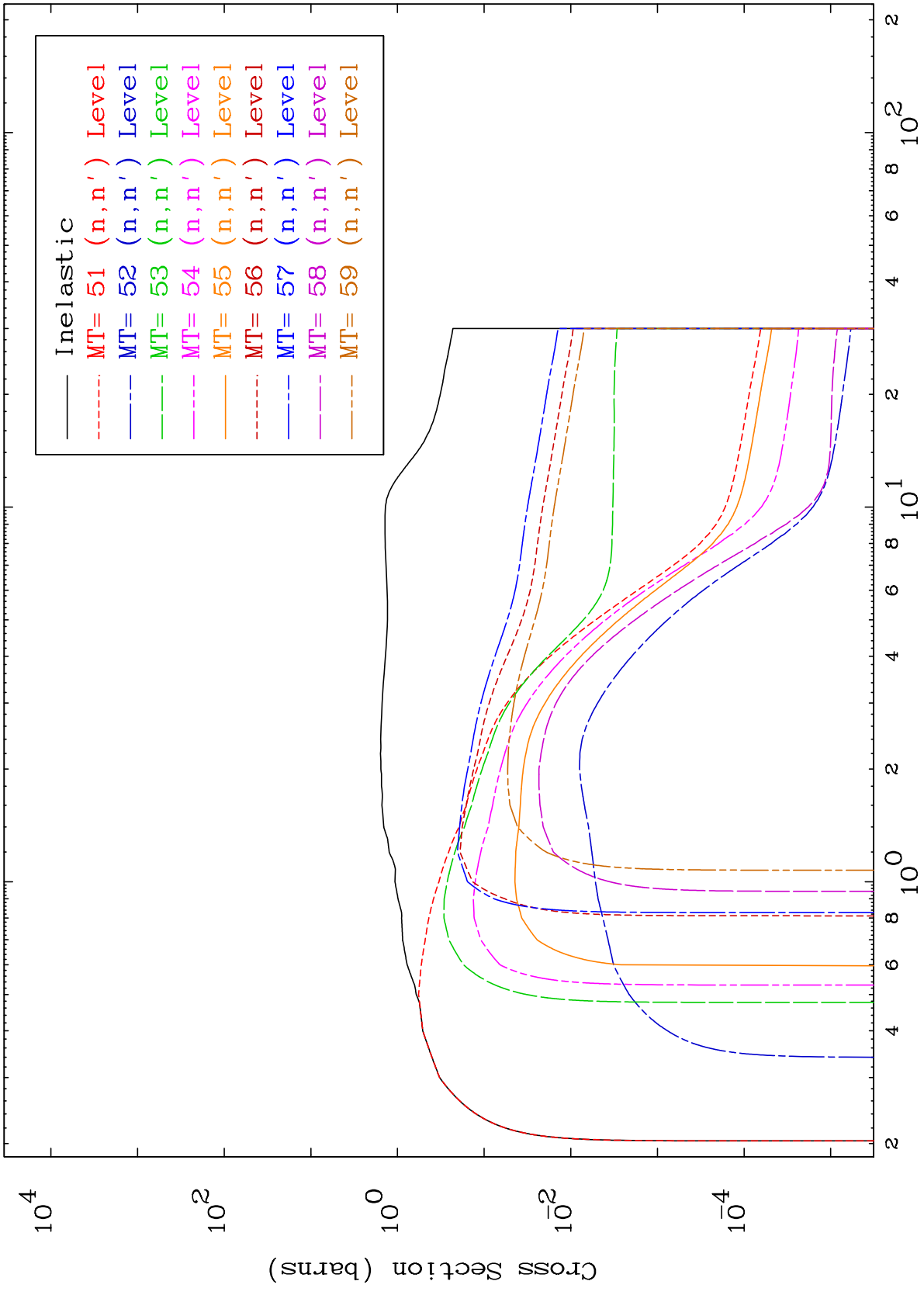


40-Zr-87

MAT 4016

(n,n') Level
293 Kelvin Cross Sections

40-Zr-87



6

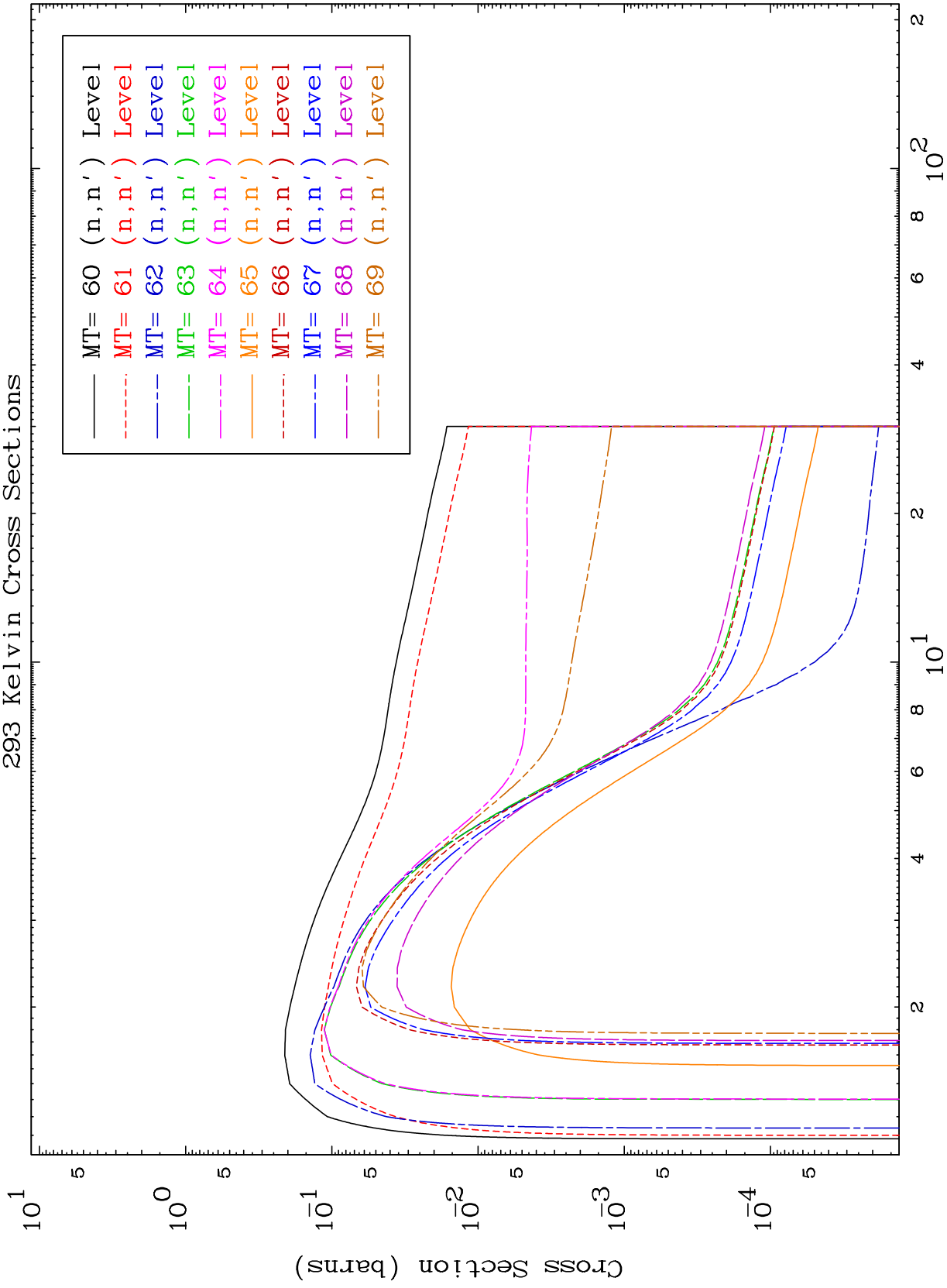
Incident Energy (MeV)

40-Zr-87

MAT 4016

(n,n') Level
293 Kelvin Cross Sections

40-Zr-87



7

Incident Energy (MeV)

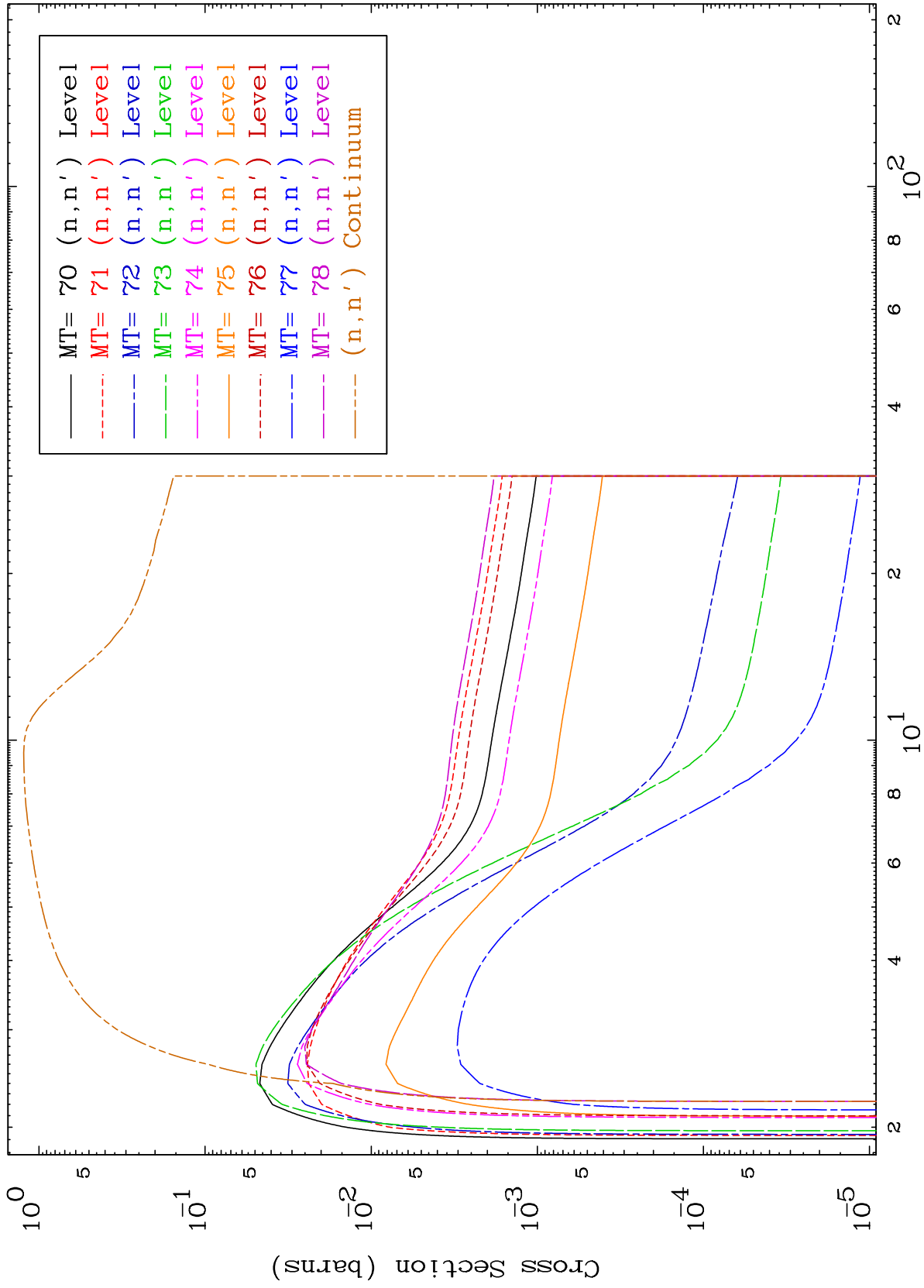
40-Zr-87

MAT 4016

(n,n') Level

40-Zr-87

293 Kelvin Cross Sections



8

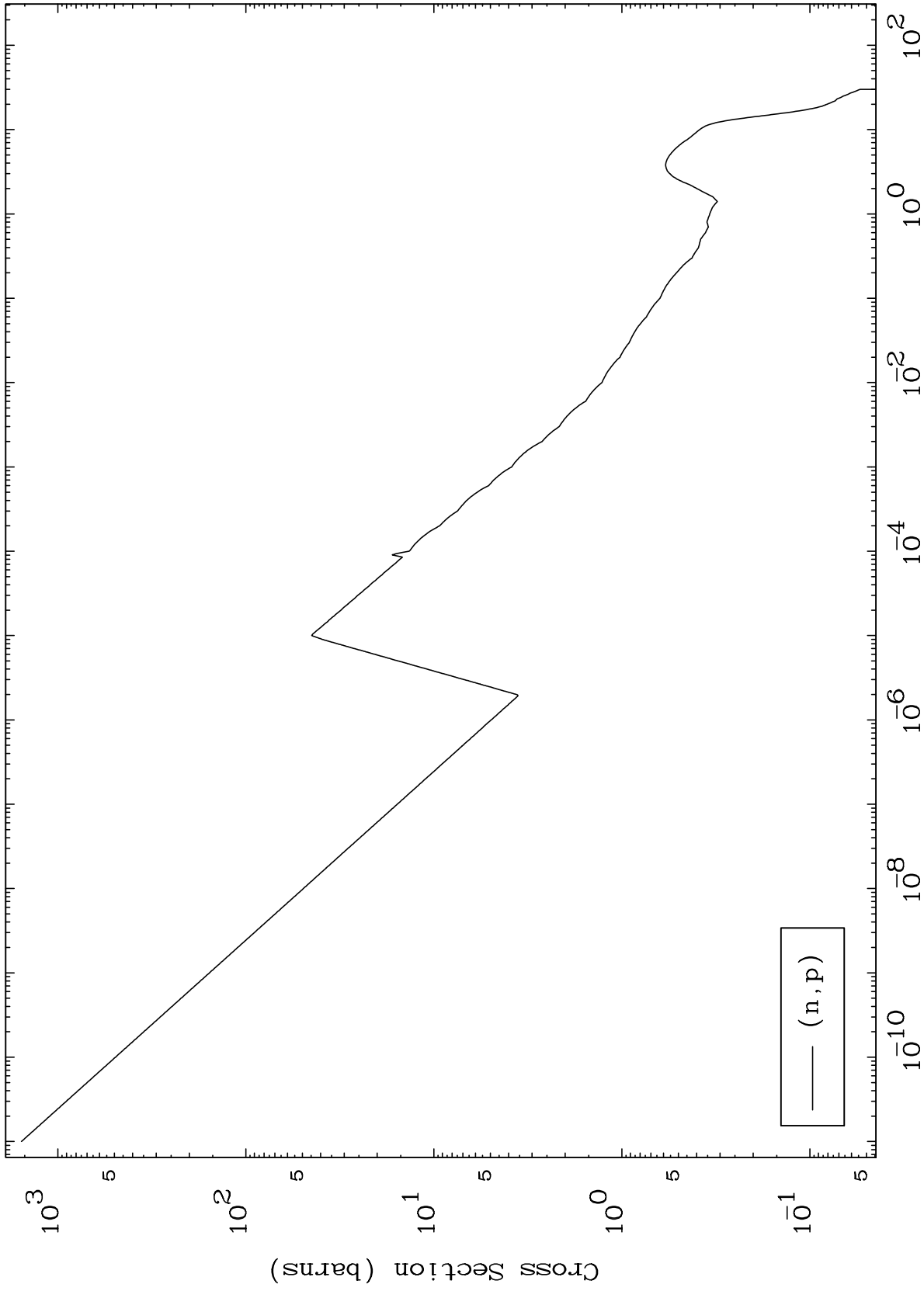
Incident Energy (MeV)

40-Zr-87

MAT 4016

(n,p) Levels
293 Kelvin Cross Sections

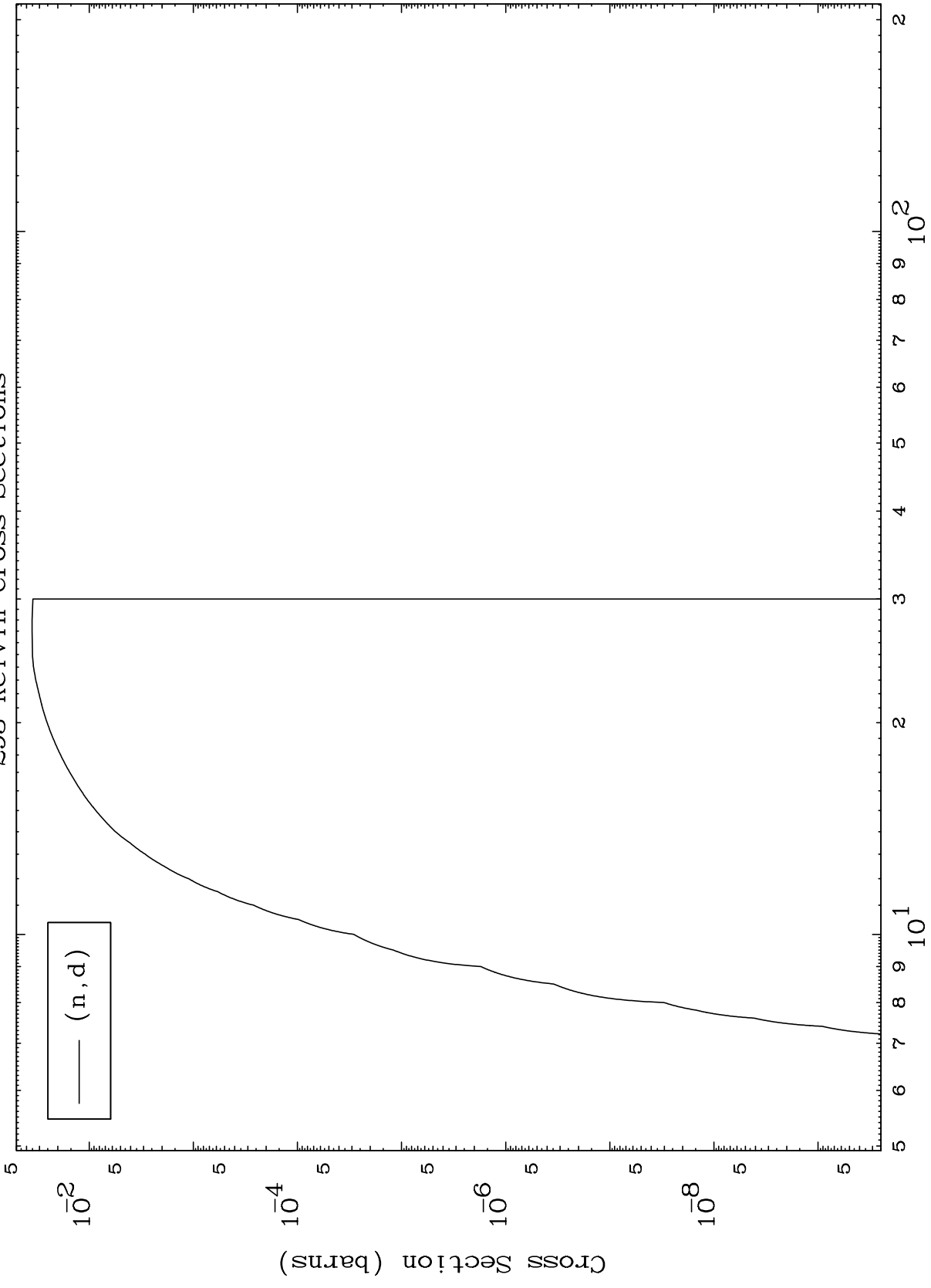
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MAT 4016

(n,d) Levels
293 Kelvin Cross Sections

40-Zr-87



10

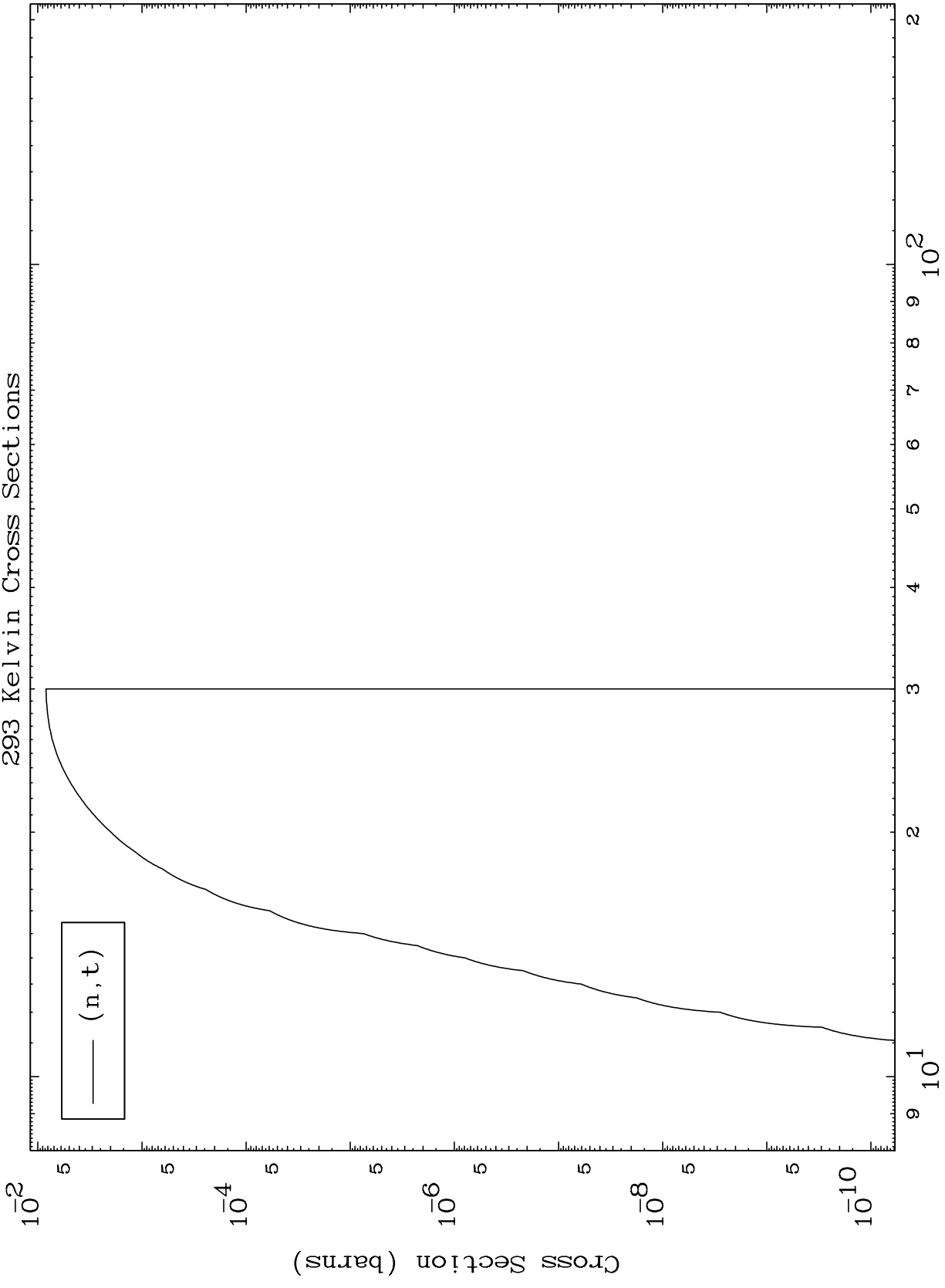
Incident Energy (MeV)

40-Zr-87

MAT 4016

40-Zr-87

(n,t) Levels
293 Kelvin Cross Sections



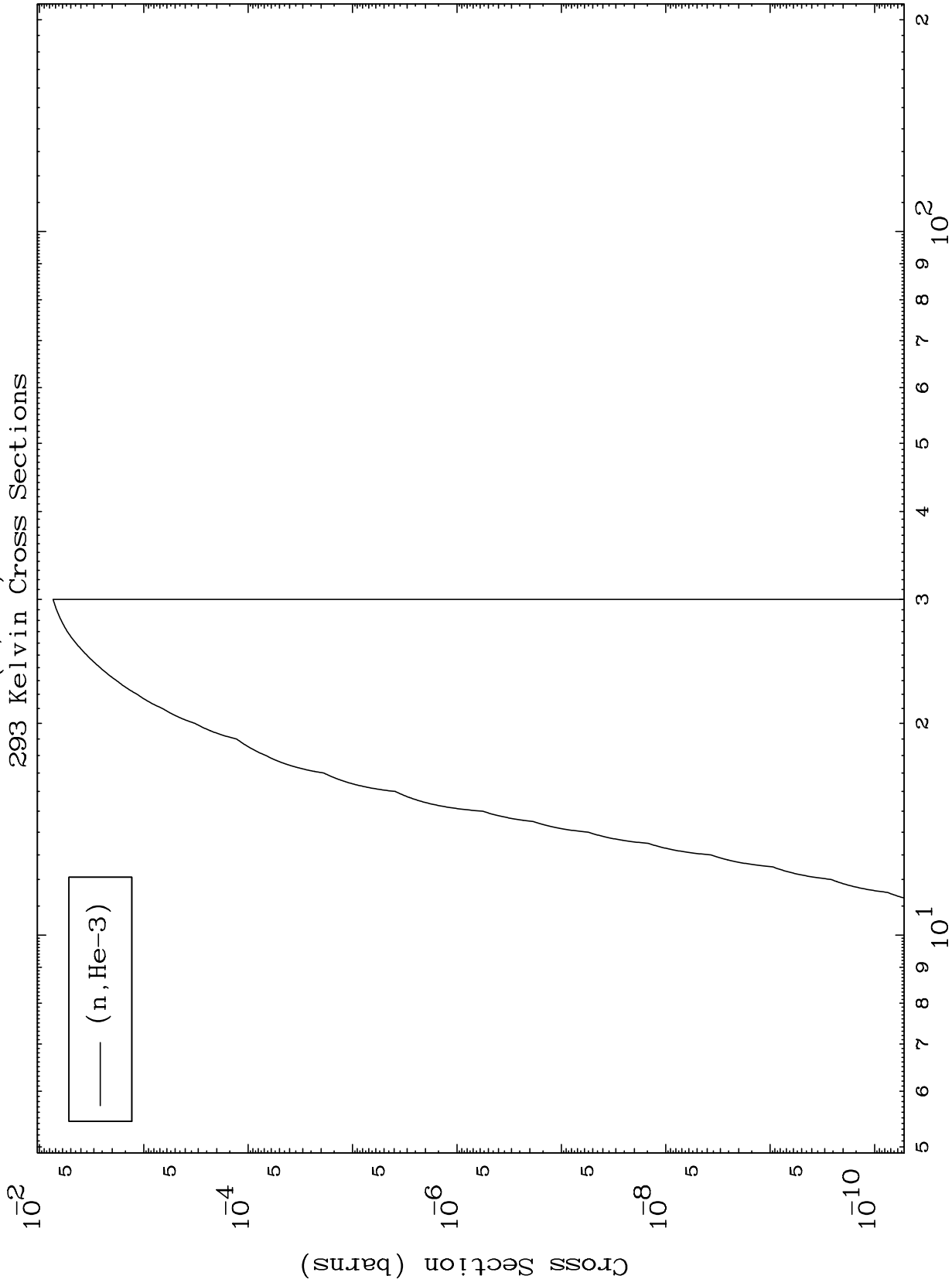
11

40-Zr-87

MAT 4016

40-Zr-87

(n,He3) Levels
293 Kelvin Cross Sections



12

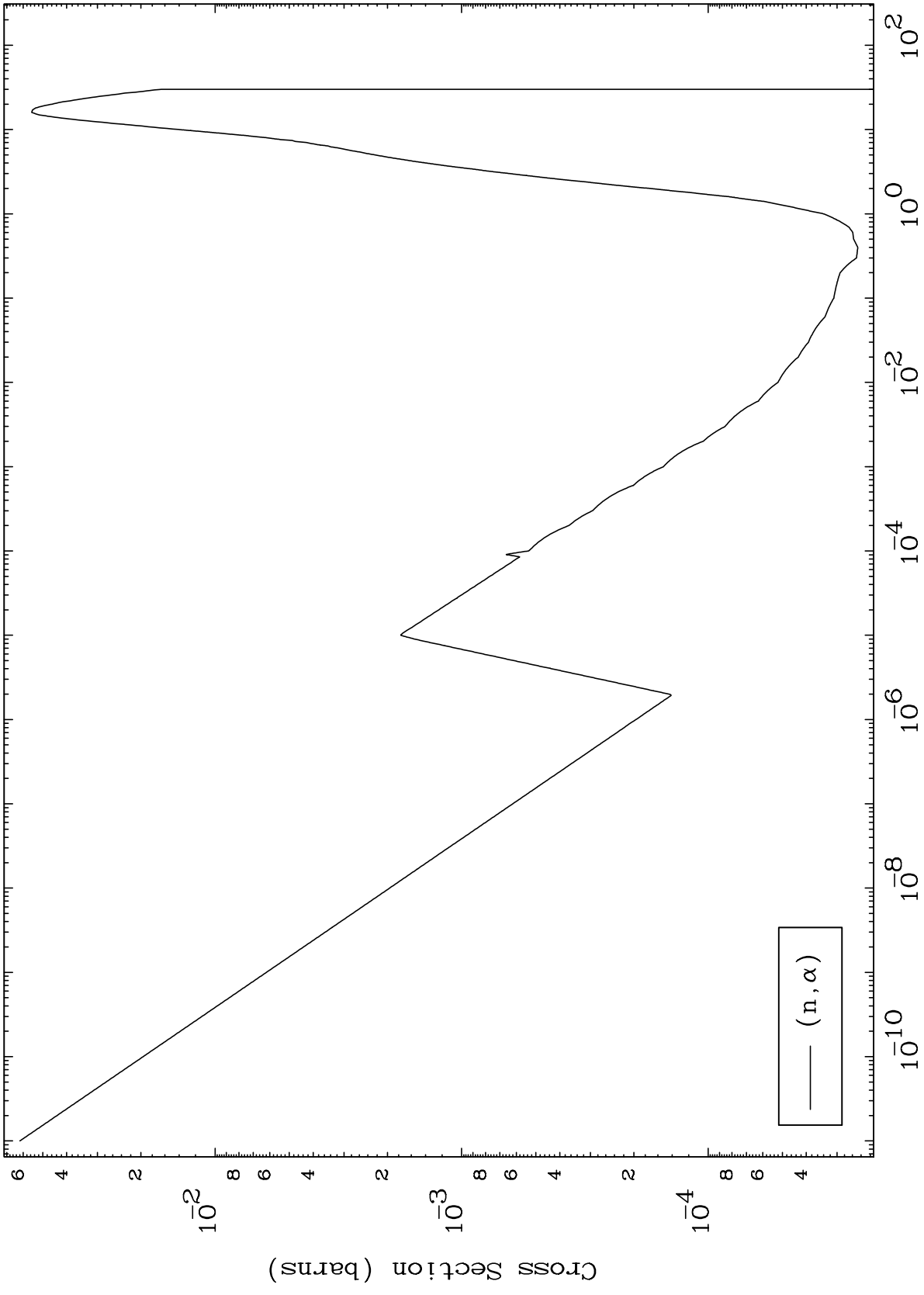
Incident Energy (MeV)

40-Zr-87

MAT 4016

(n,α) Levels
293 Kelvin Cross Sections

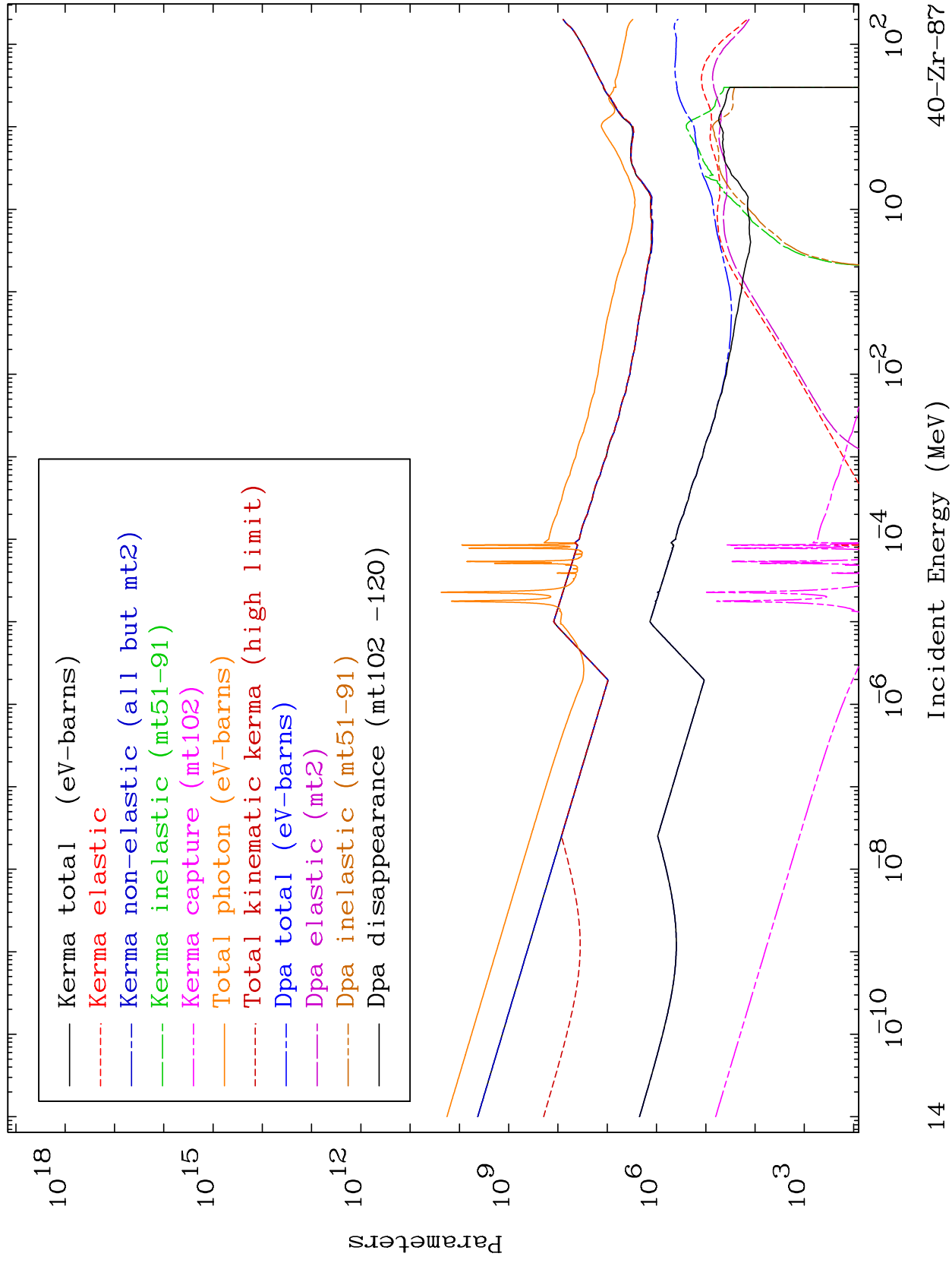
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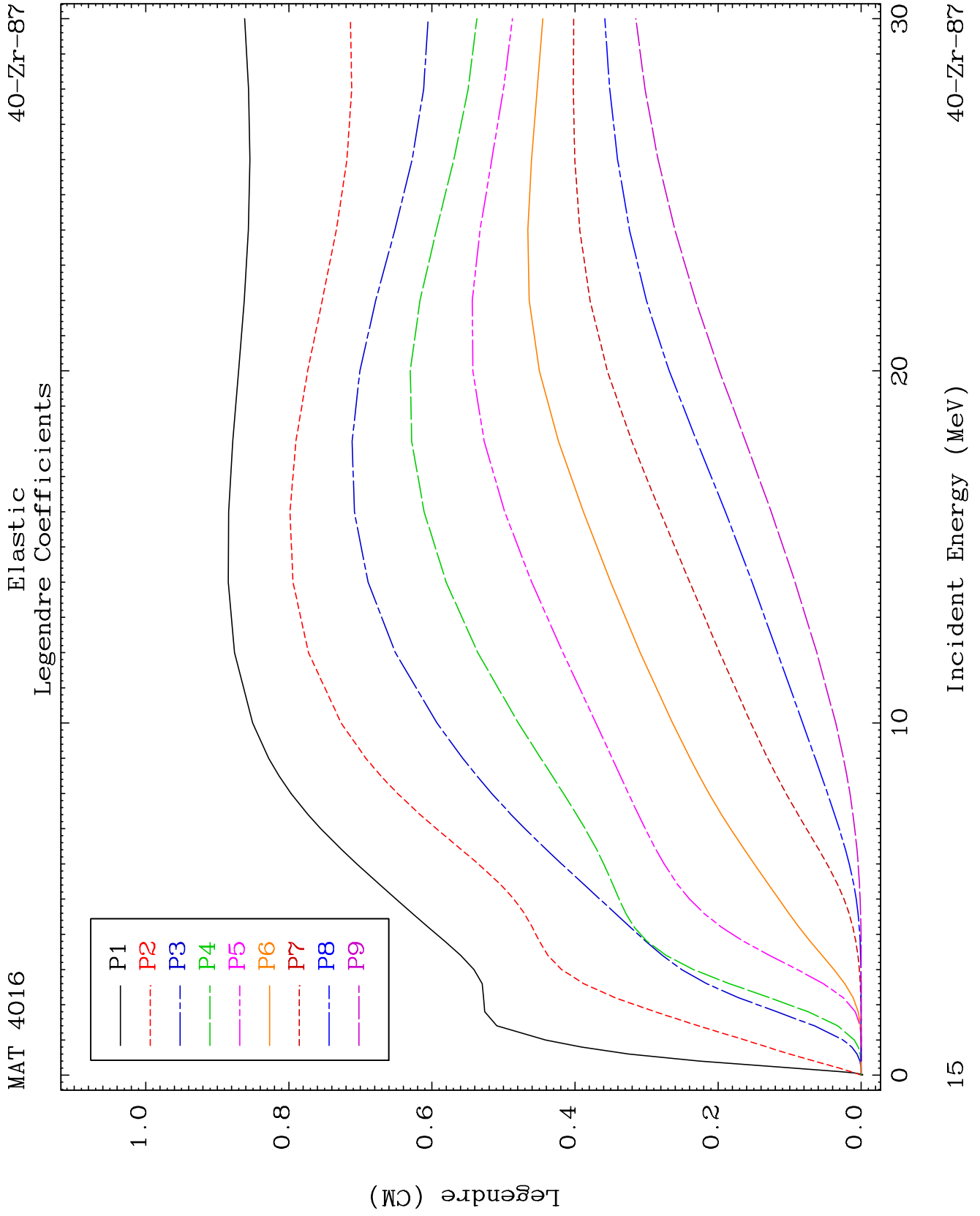


13

Incident Energy (MeV)

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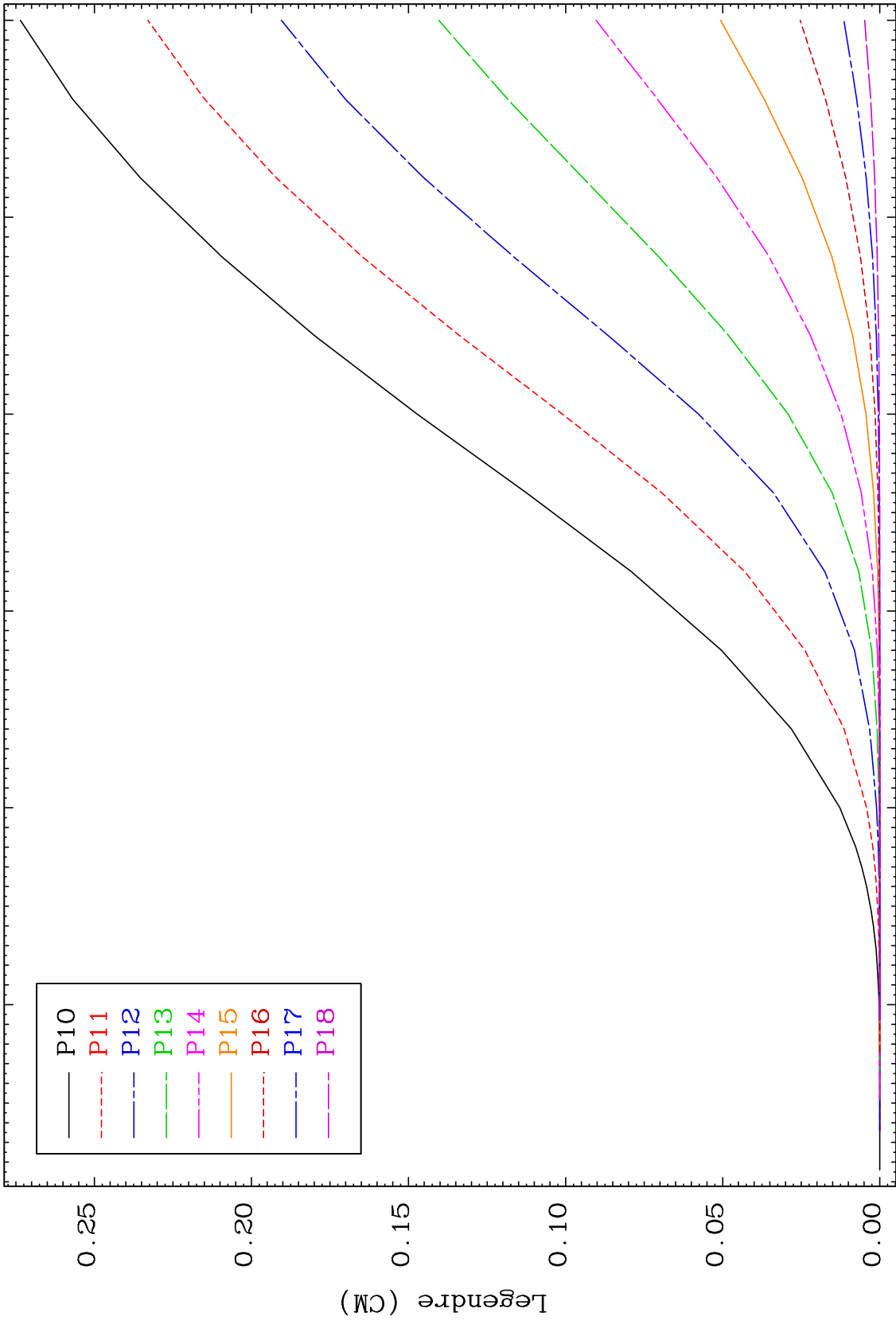




MAT 4016

Elastic Legendre Coefficients

40-Zr-87



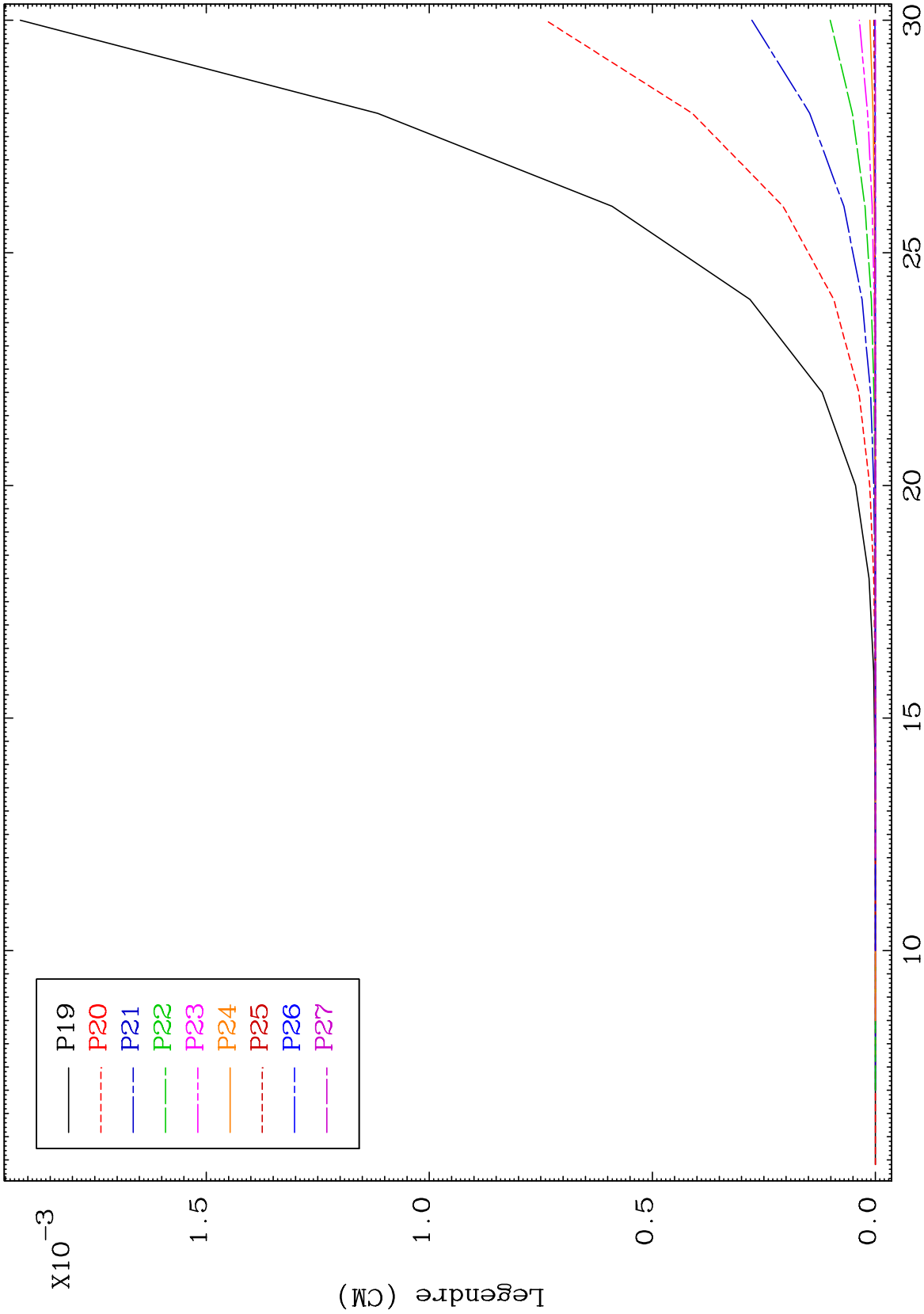
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40-Zr-87

MAT 4016

Elastic Legendre Coefficients

40-Zr-87

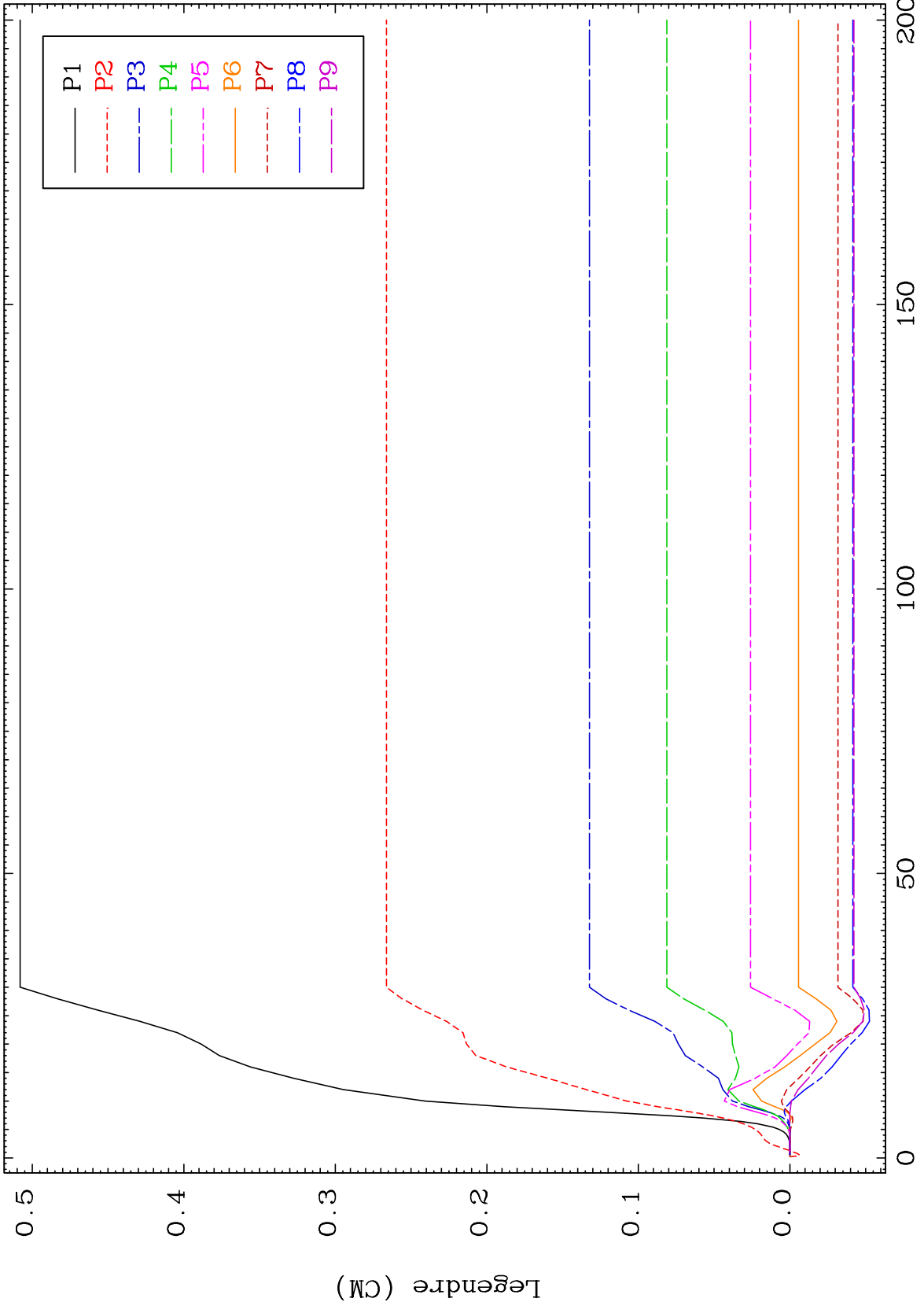


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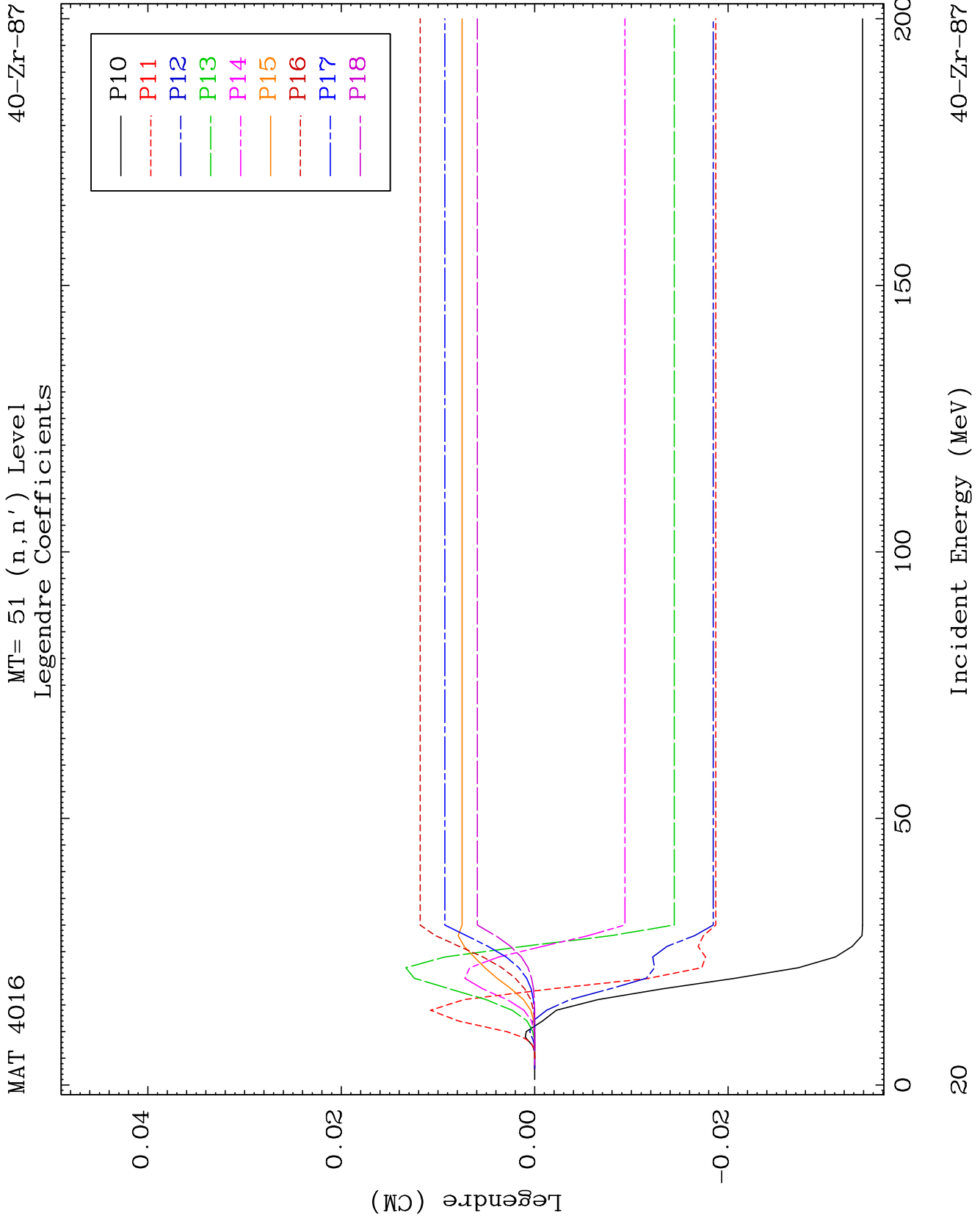
Incident Energy (MeV)

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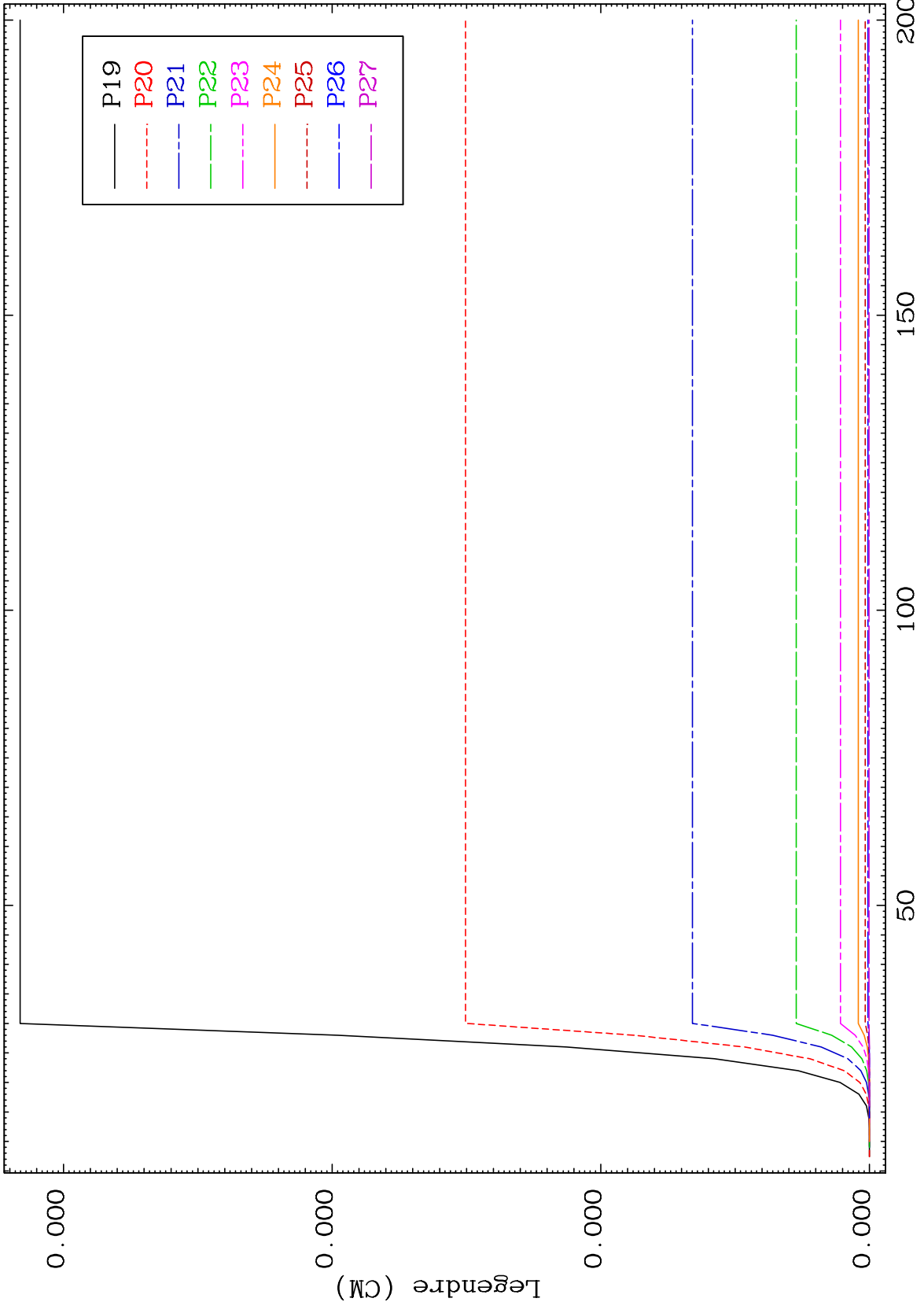
MAT 4016 MT= 51 (n,n') Level Legendre Coefficients 40-Zr-87



19 40-Zr-87



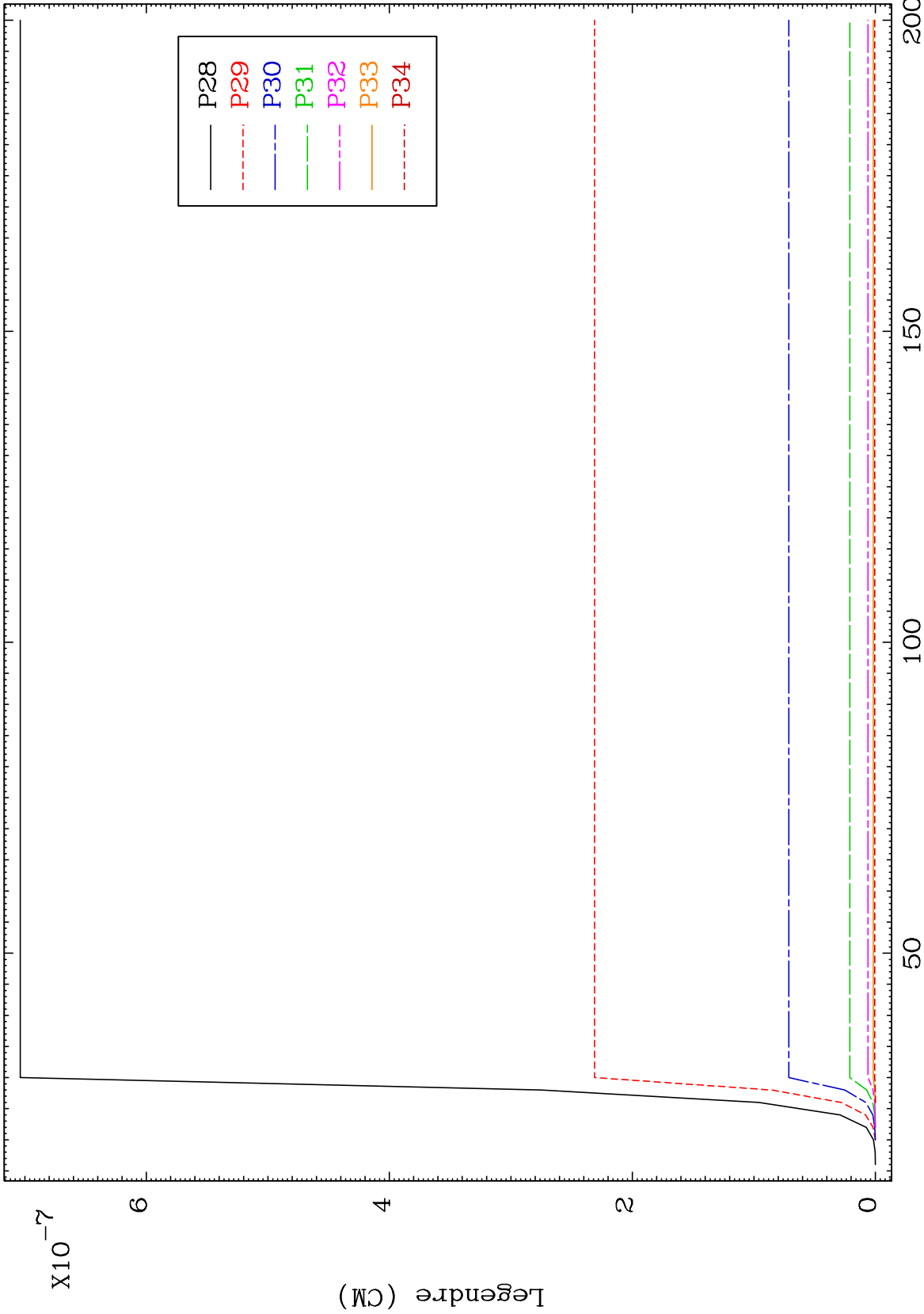
MAT 4016 MT= 51 (n,n') Level Legendre Coefficients 40-Zr-87



MAT 4016

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

40-Zr-87

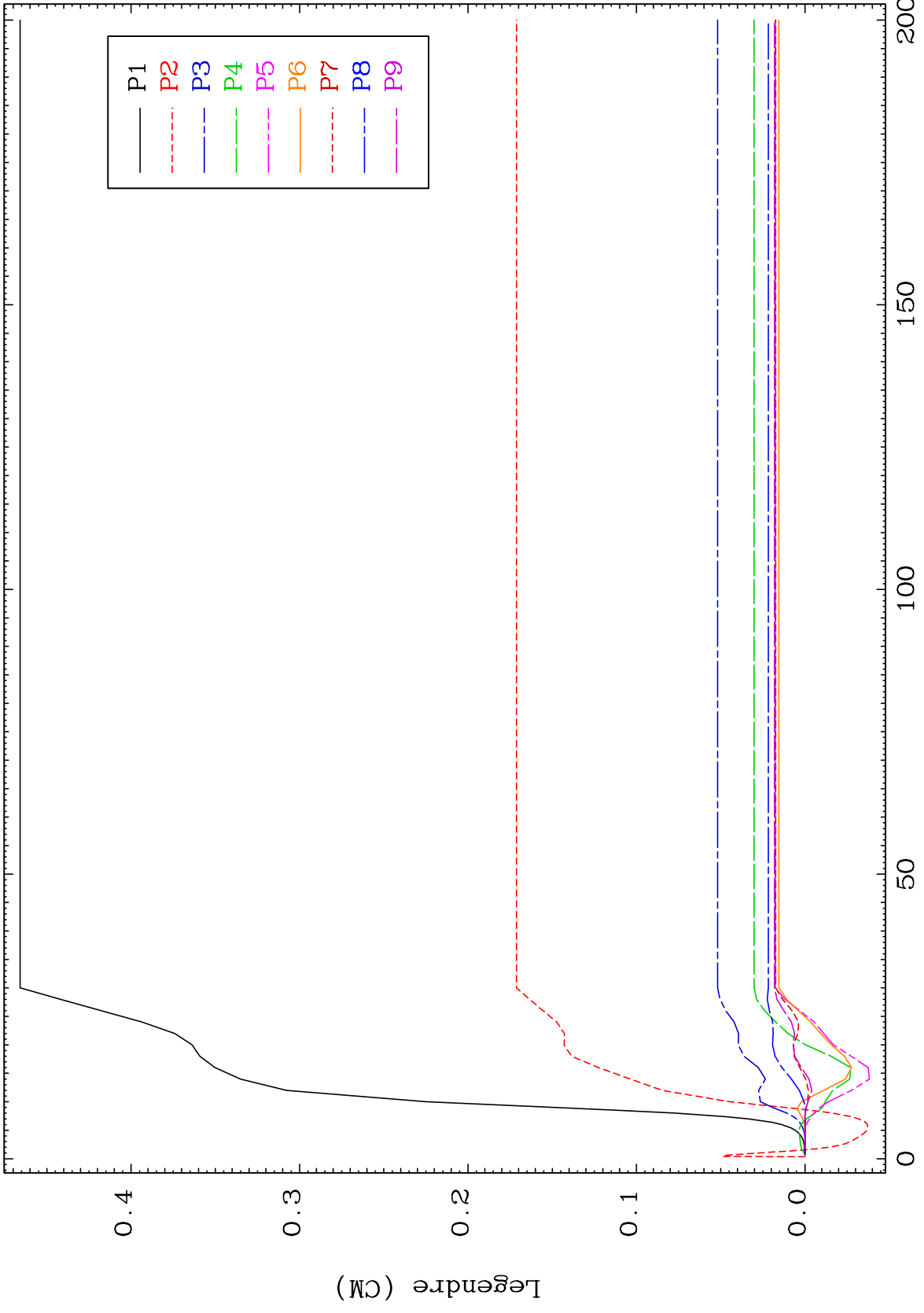


22

Incident Energy (MeV)

40-Zr-87

MAT 4016 MT= 52 (n,n') Level Legendre Coefficients 40-Zr-87

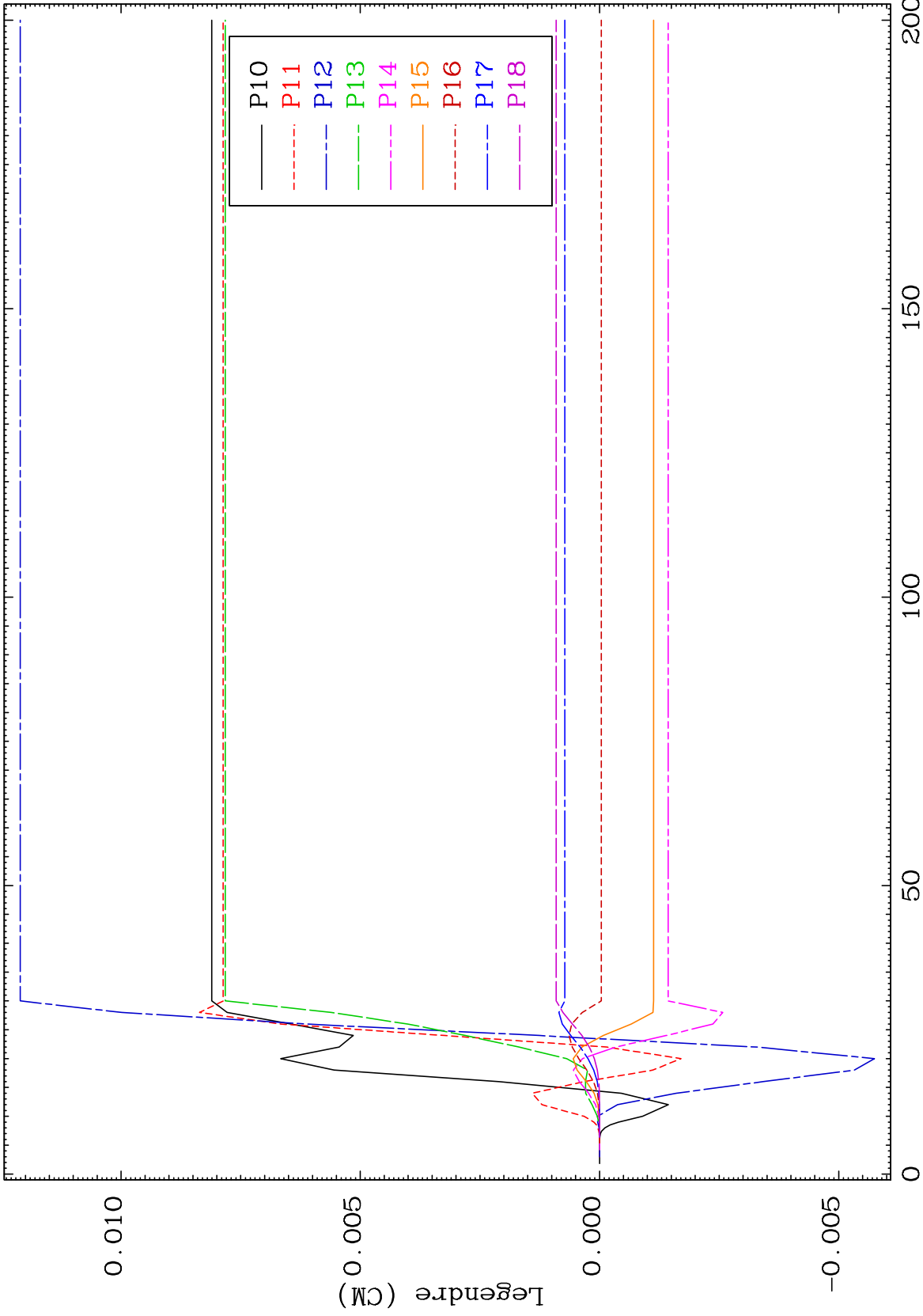


23 40-Zr-87

MAT 4016

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

40-Zr-87

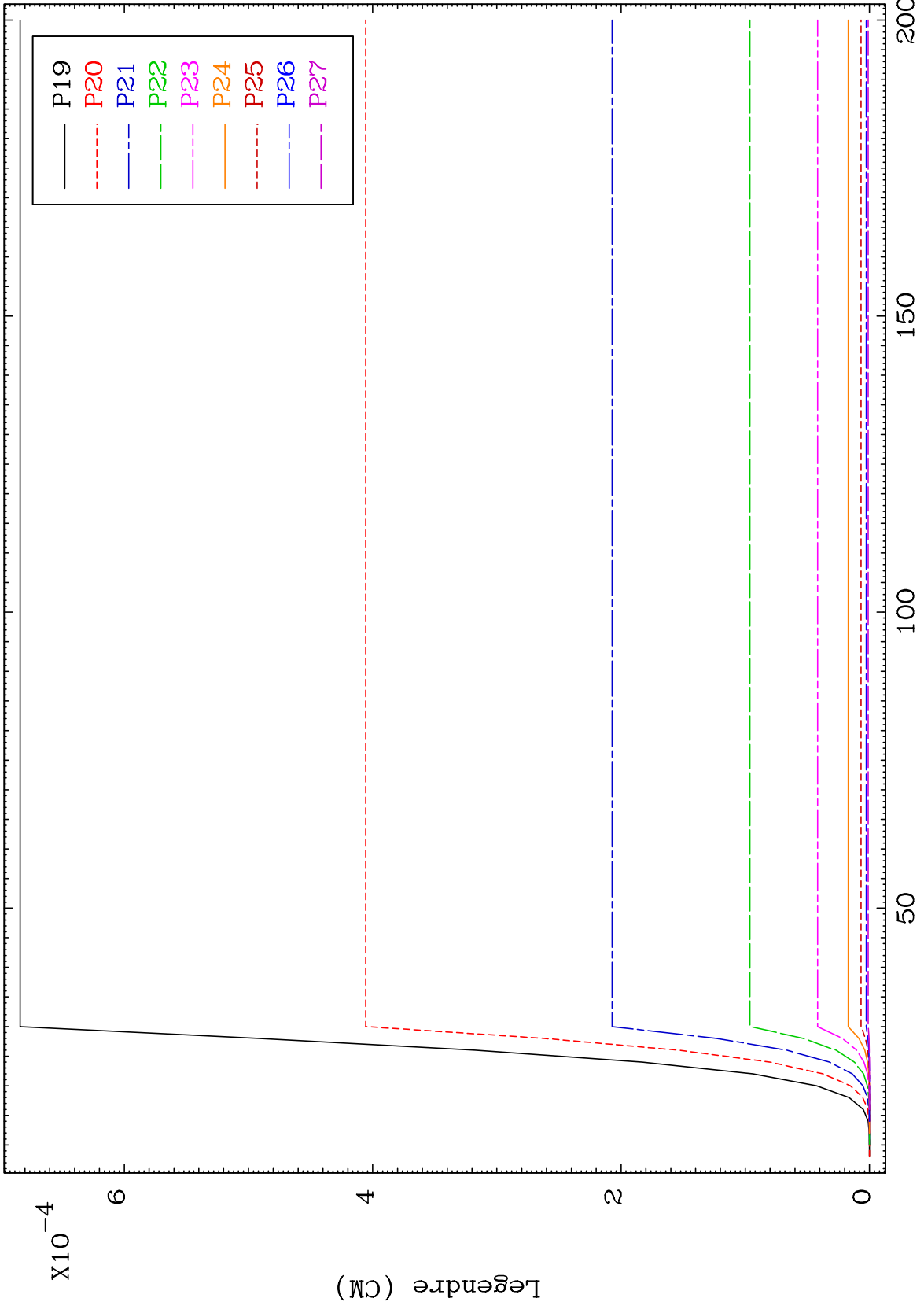


24

Incident Energy (MeV)

40-Zr-87

MAT 4016 MT= 52 (n,n') Level Legendre Coefficients 40-Zr-87

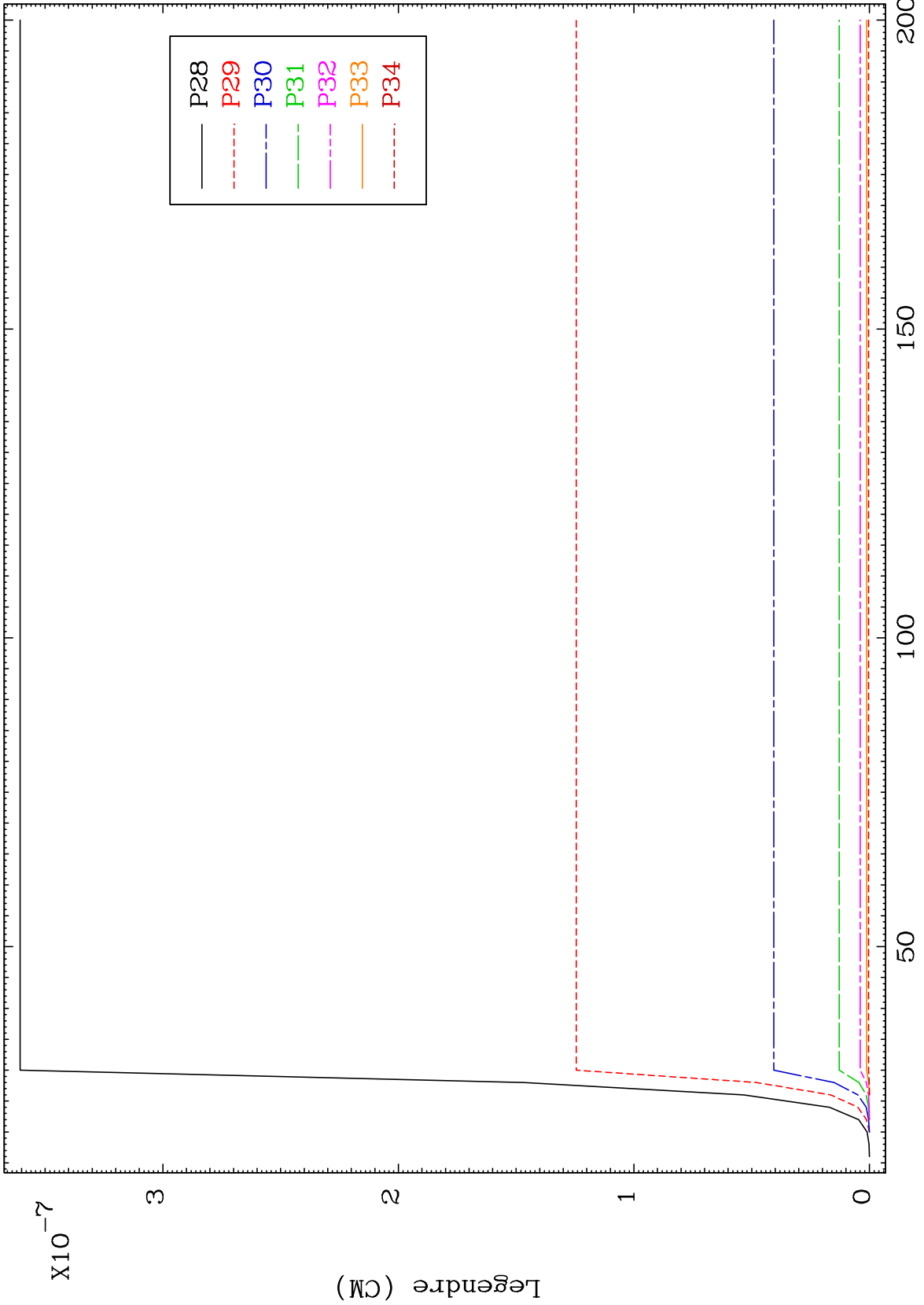


40-Zr-87

MAT 4016

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

40-Zr-87

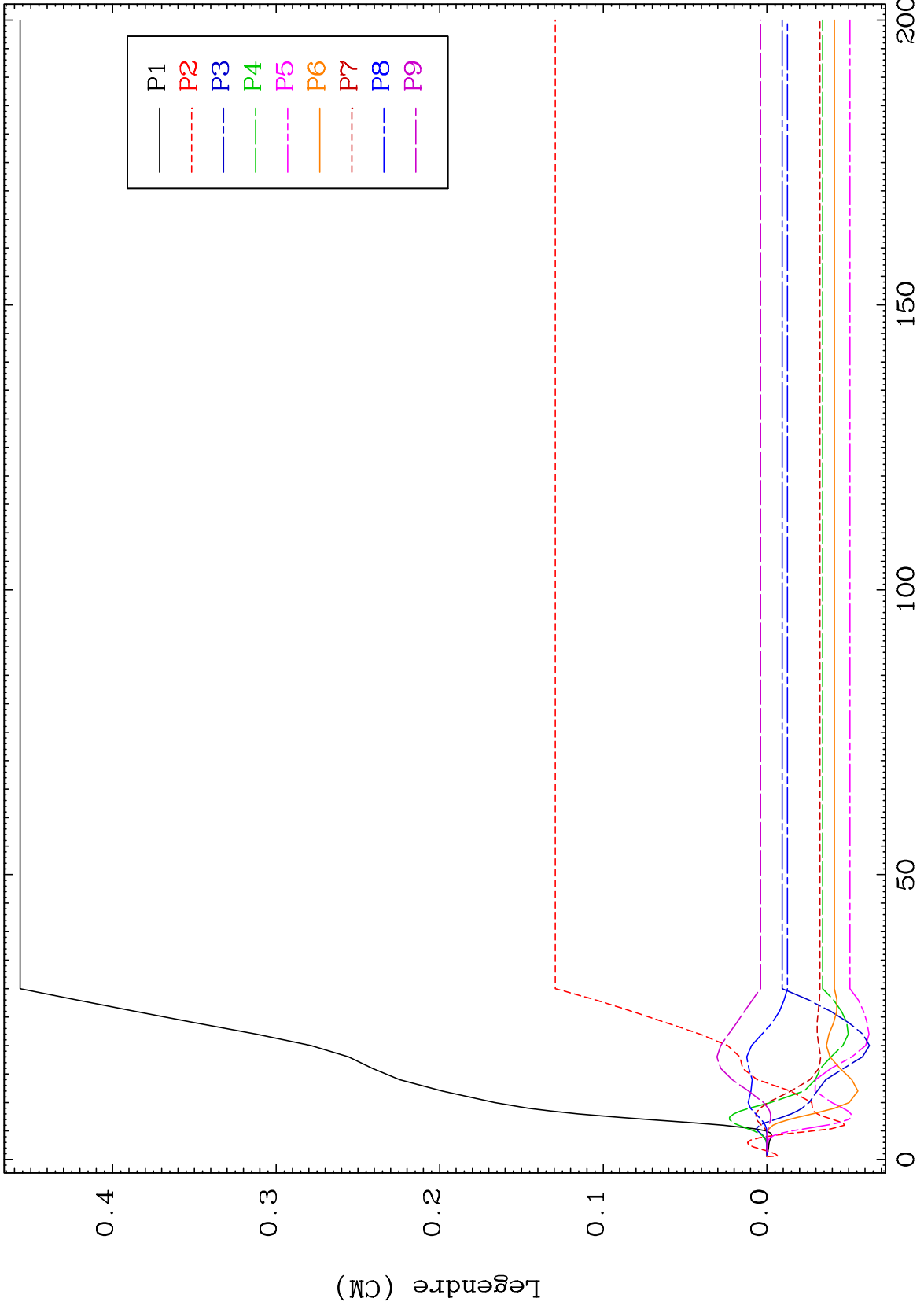


26

40-Zr-87

40-Zr-87

MAT 4016 MT= 53 (n,n') Level Legendre Coefficients 40-Zr-87

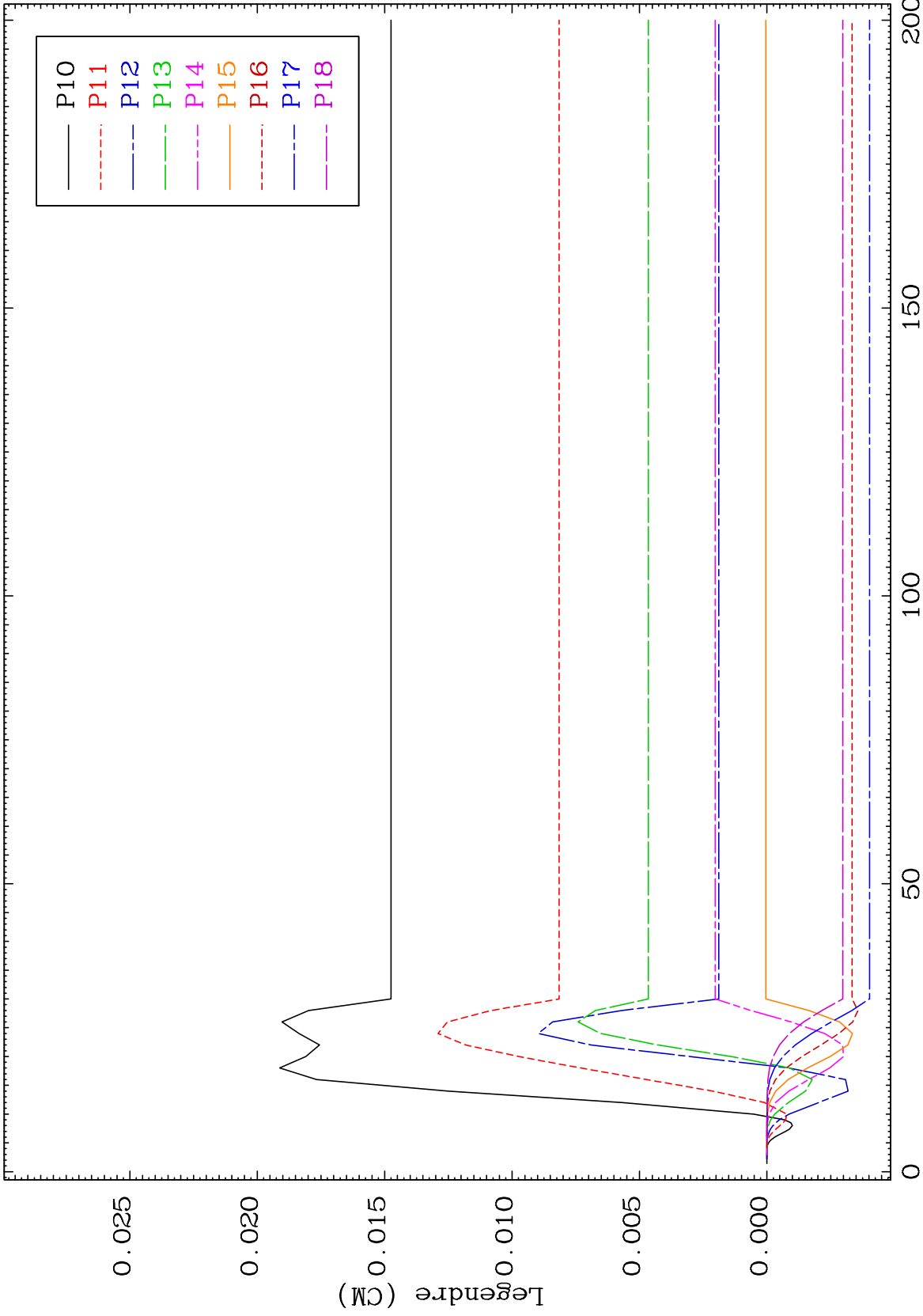


27 Incident Energy (MeV) 40-Zr-87

MAT 4016

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

40-Zr-87



28

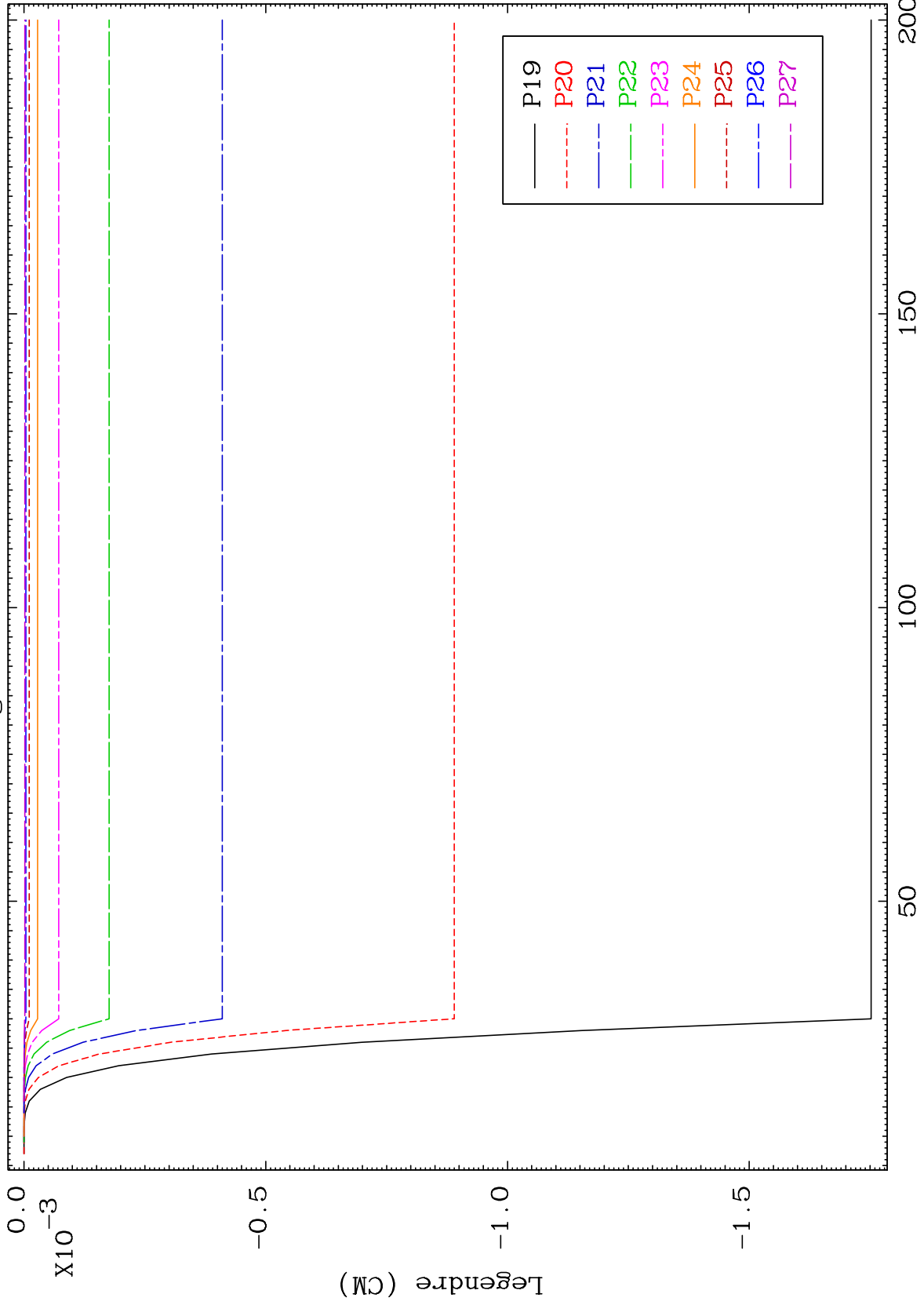
Incident Energy (MeV)

40-Zr-87

MAT 4016

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

40-Zr-87

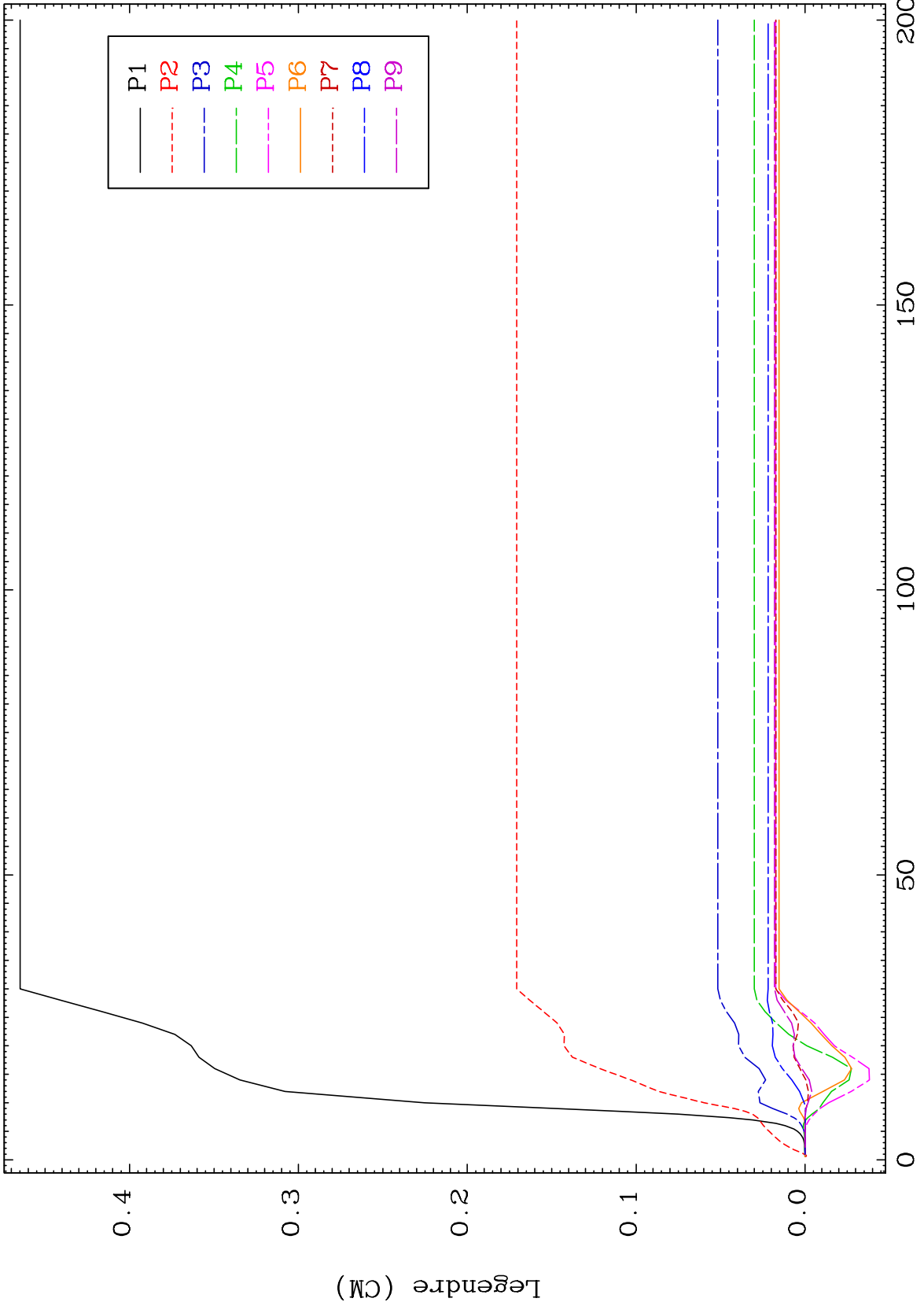


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Incident Energy (MeV)

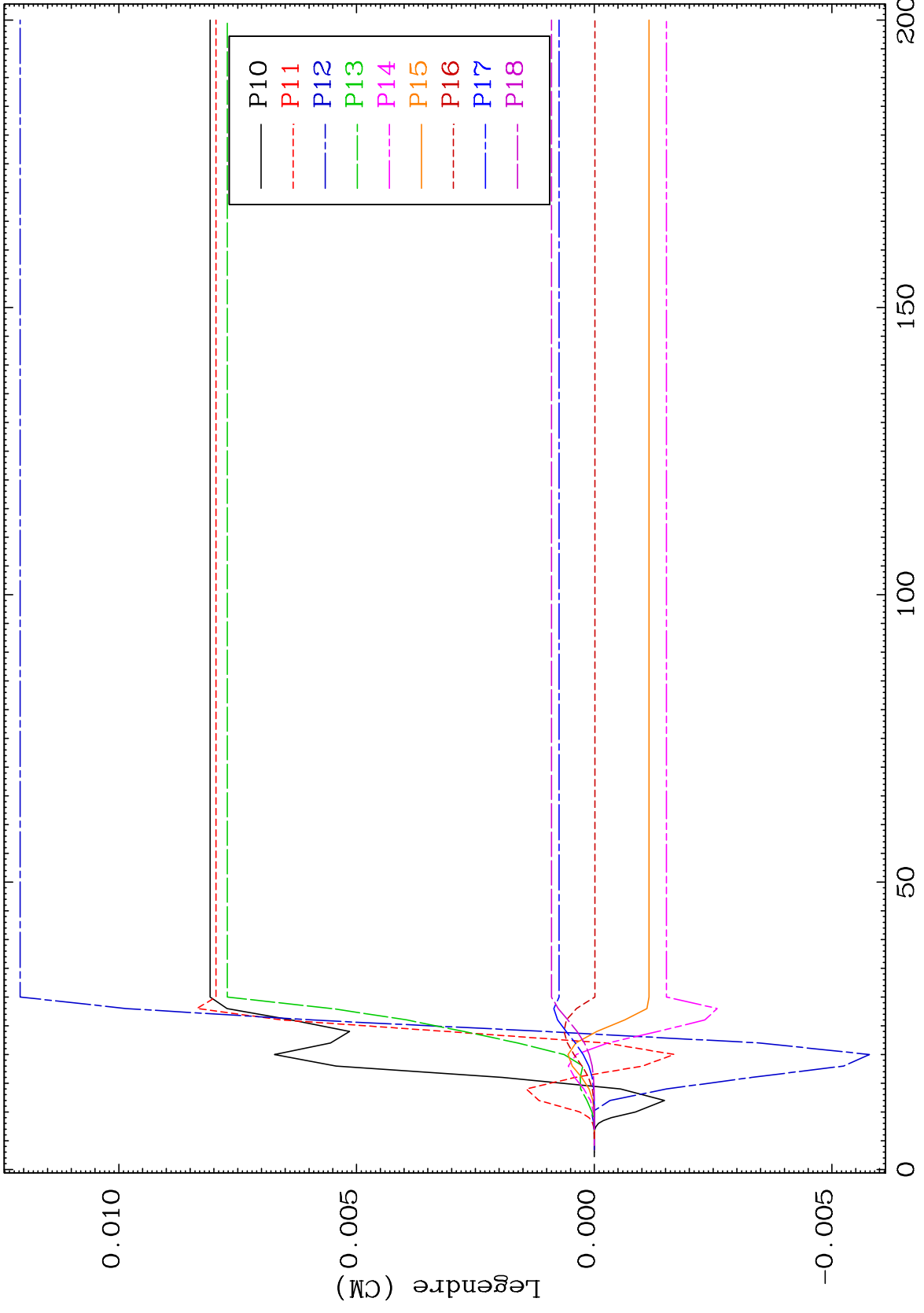
29

MAT 4016 MT= 54 (n,n') Level Legendre Coefficients 40-Zr-87



31 40-Zr-87

MAT 4016 MT= 54 (n,n') Level Legendre Coefficients 40-Zr-87

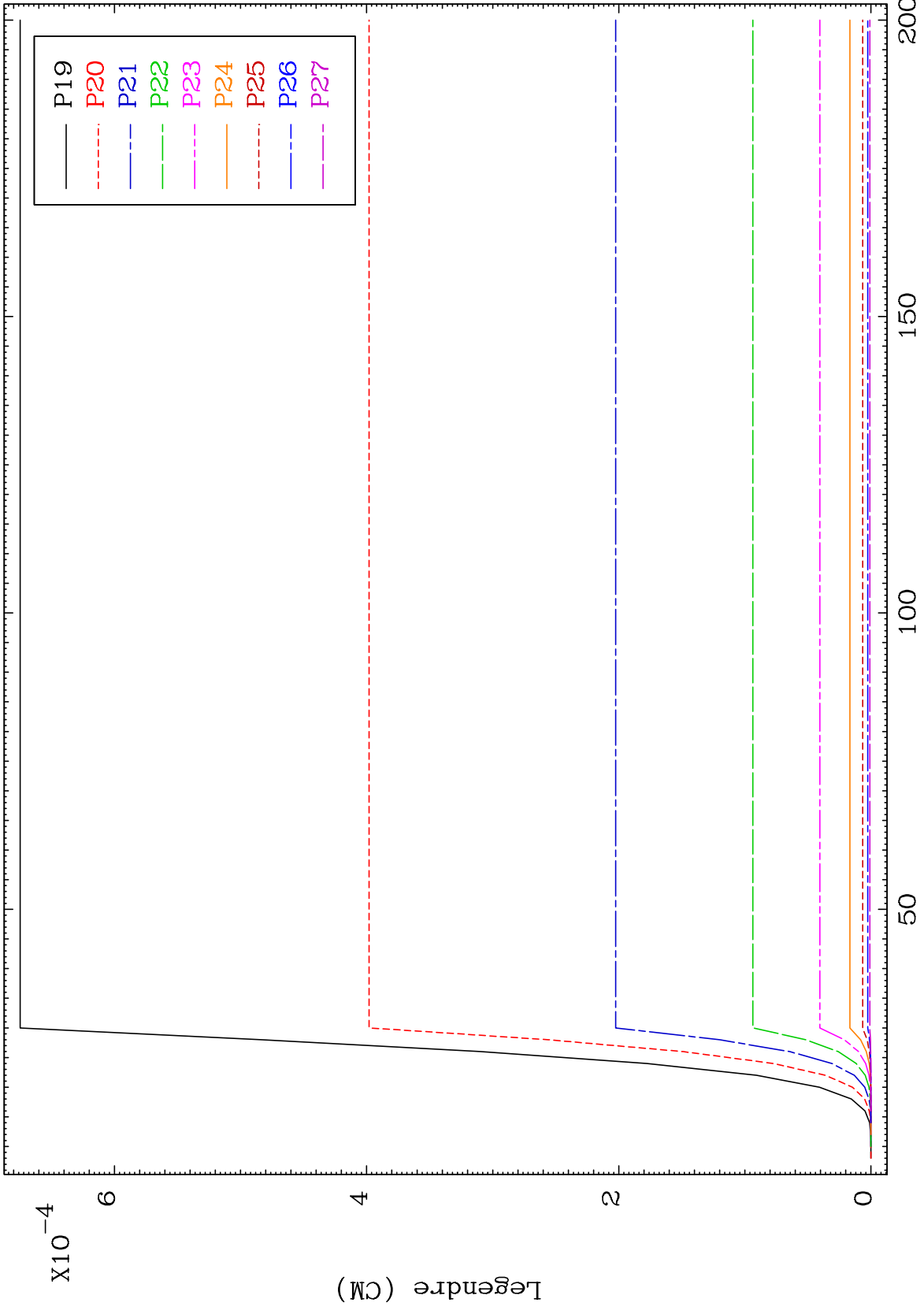


32 Incident Energy (MeV) 40-Zr-87

MAT 4016

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

40-Zr-87



40-Zr-87

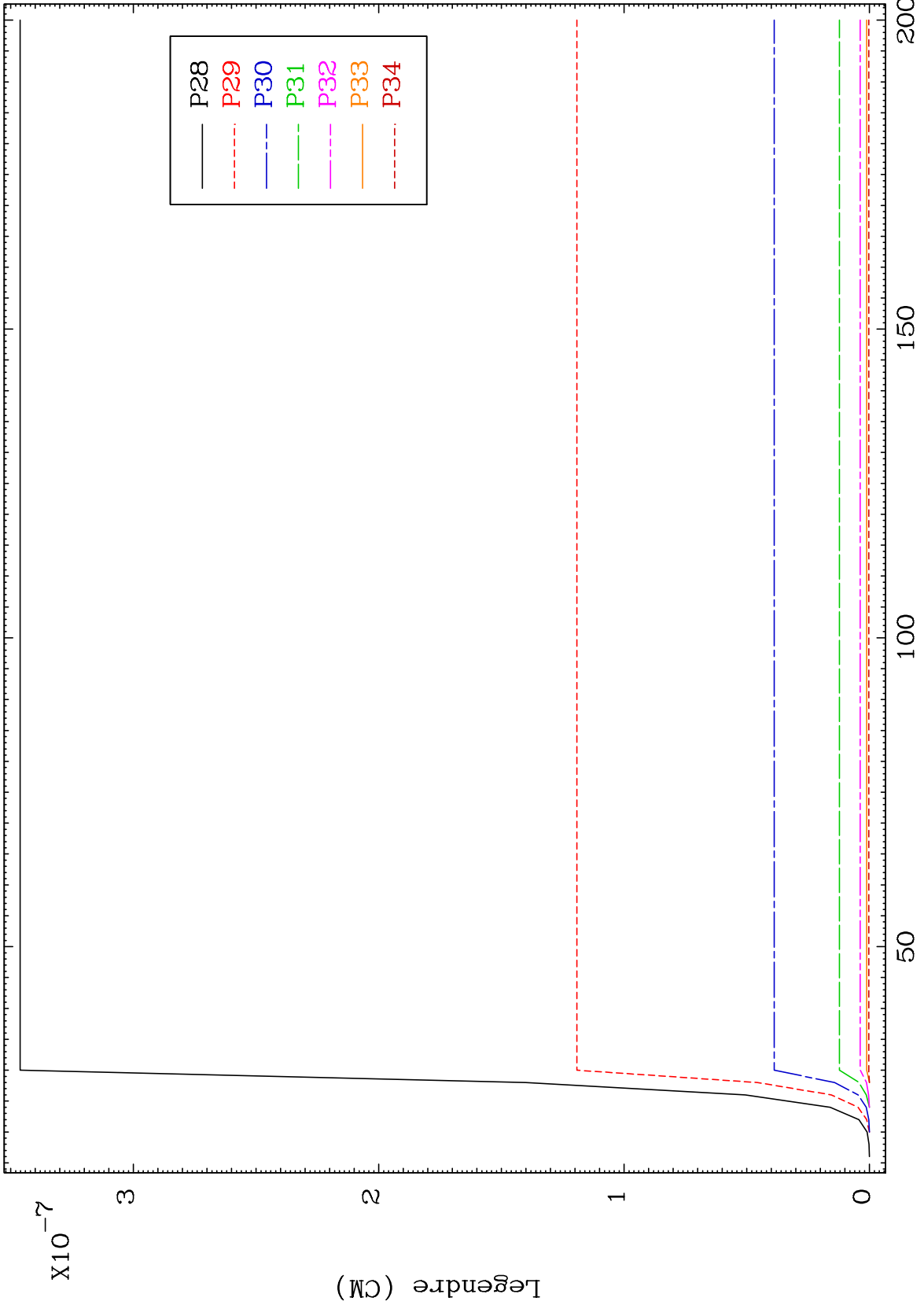
Incident Energy (MeV)

33

MAT 4016

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

40-Zr-87

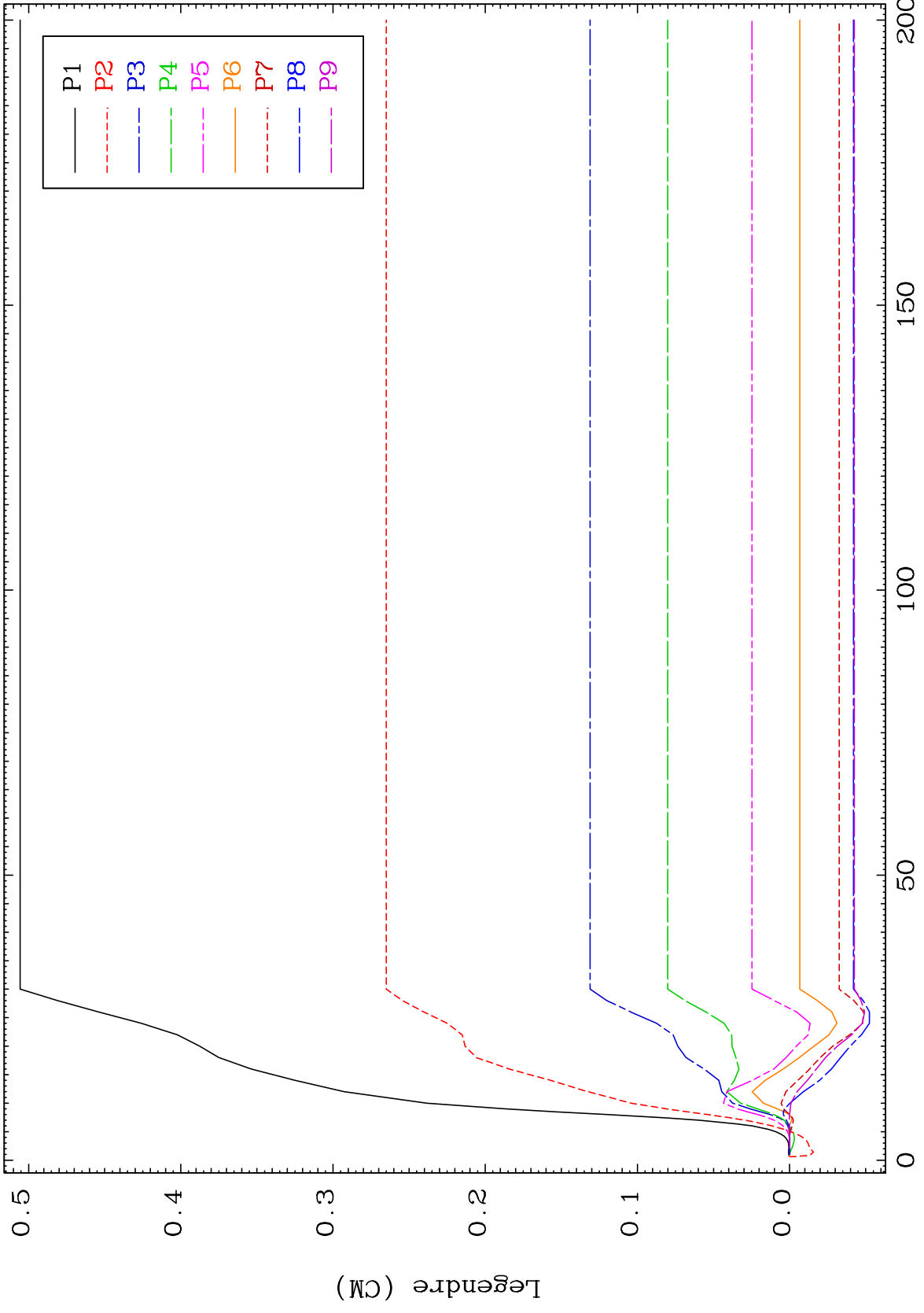


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Incident Energy (MeV)

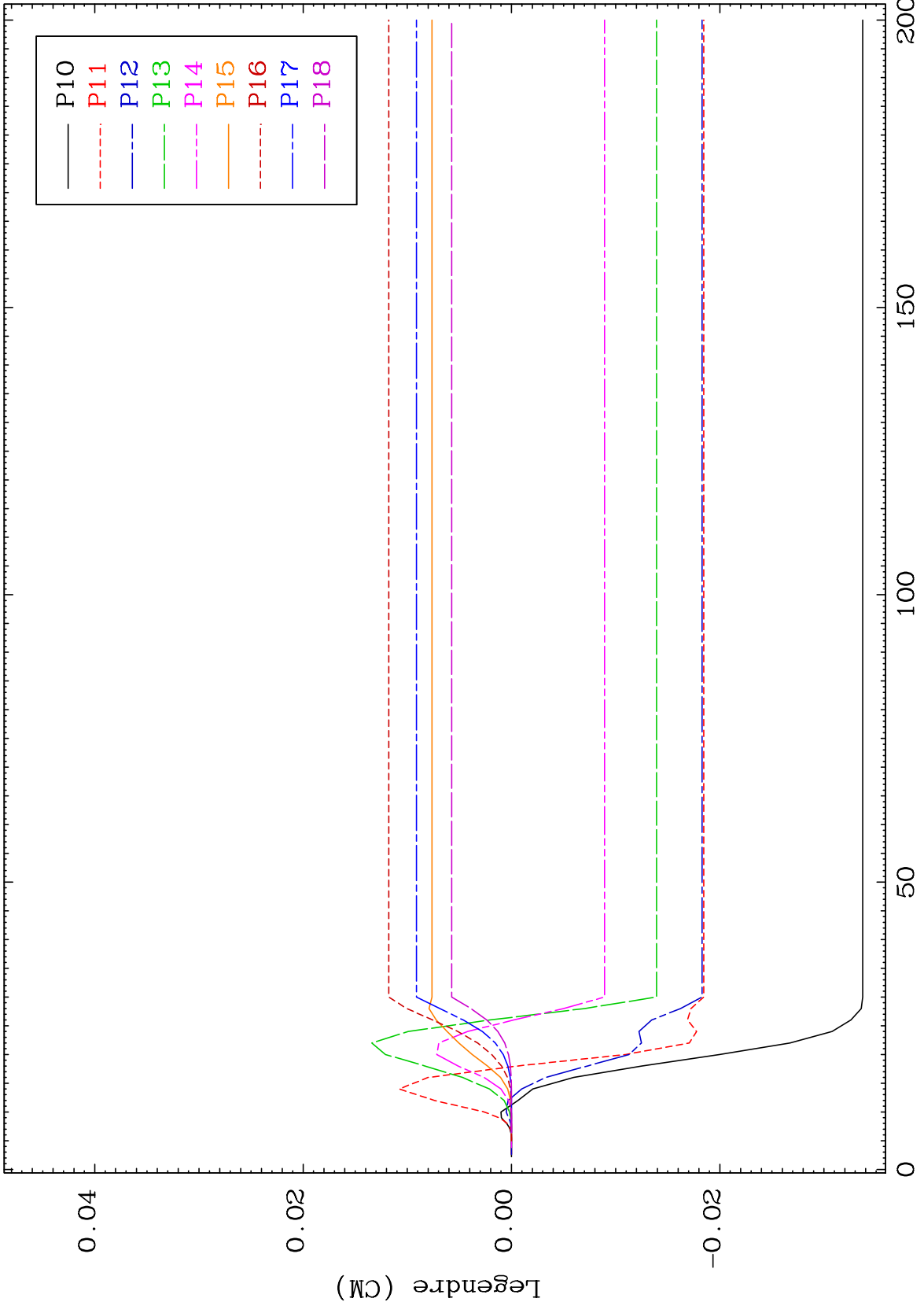
40-Zr-87

MAT 4016 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-87



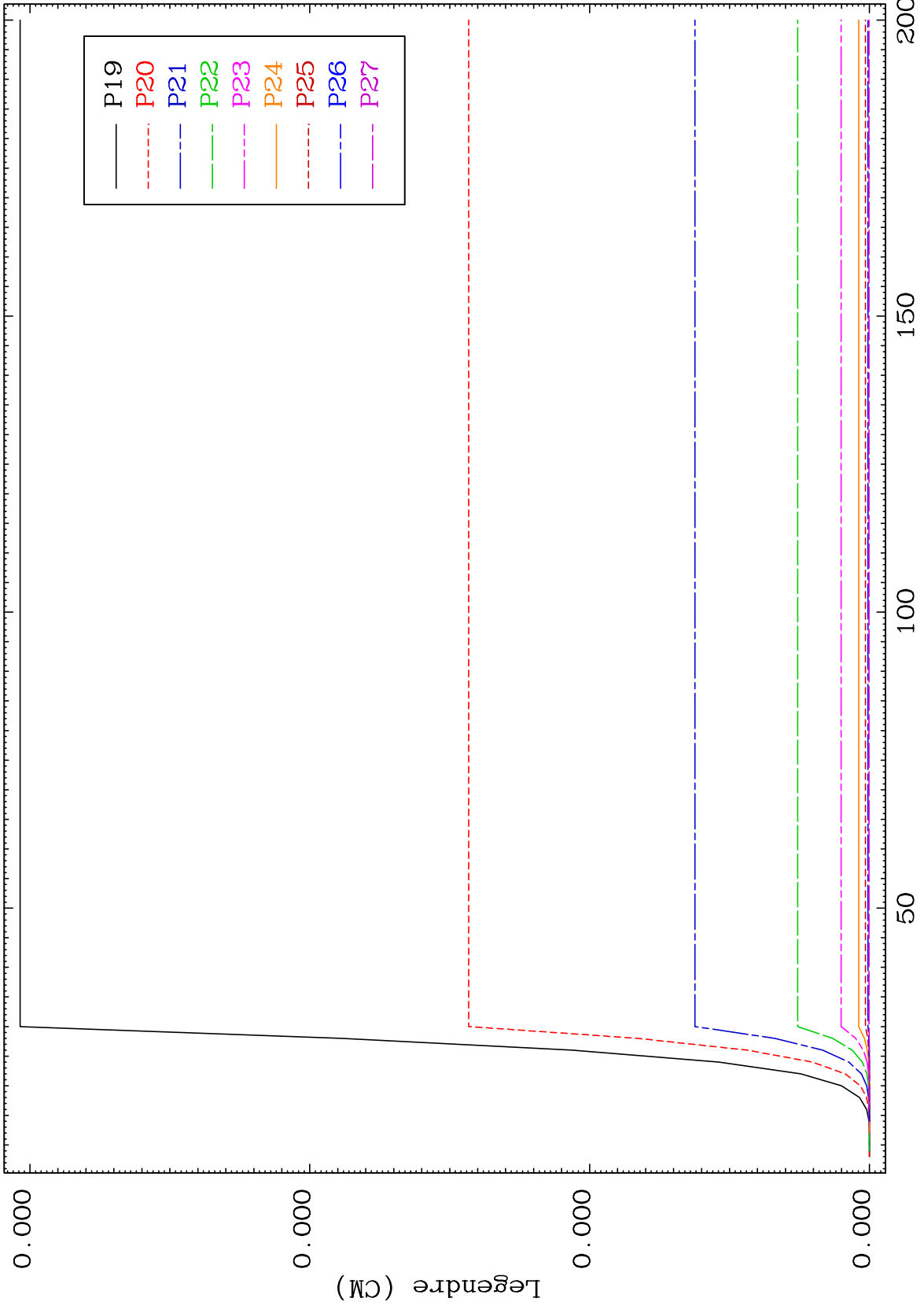
35 Incident Energy (MeV) 40-Zr-87

MAT 4016 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-87



36 Incident Energy (MeV) 40-Zr-87

MAT 4016 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-87

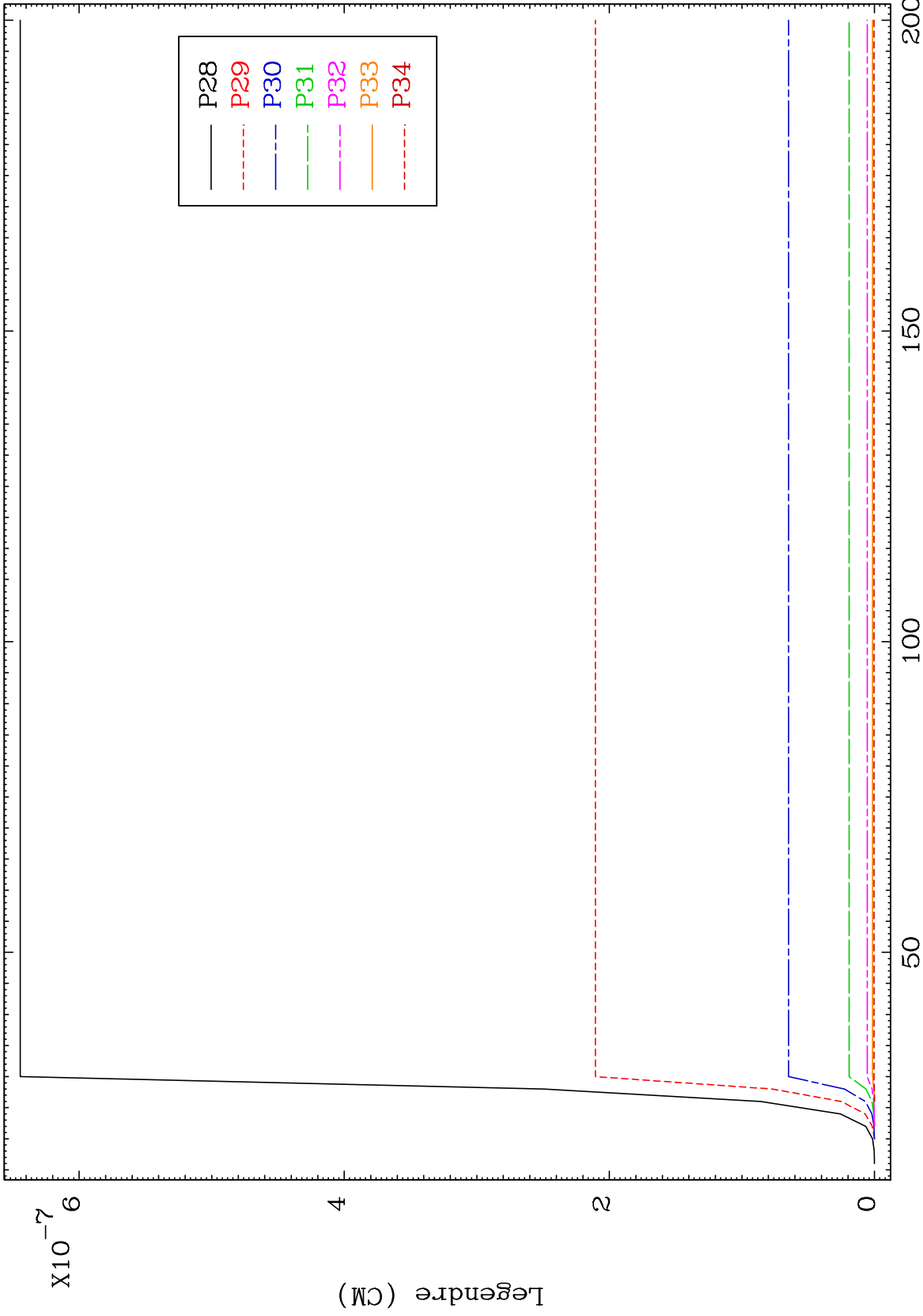


37 40-Zr-87

MAT 4016

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

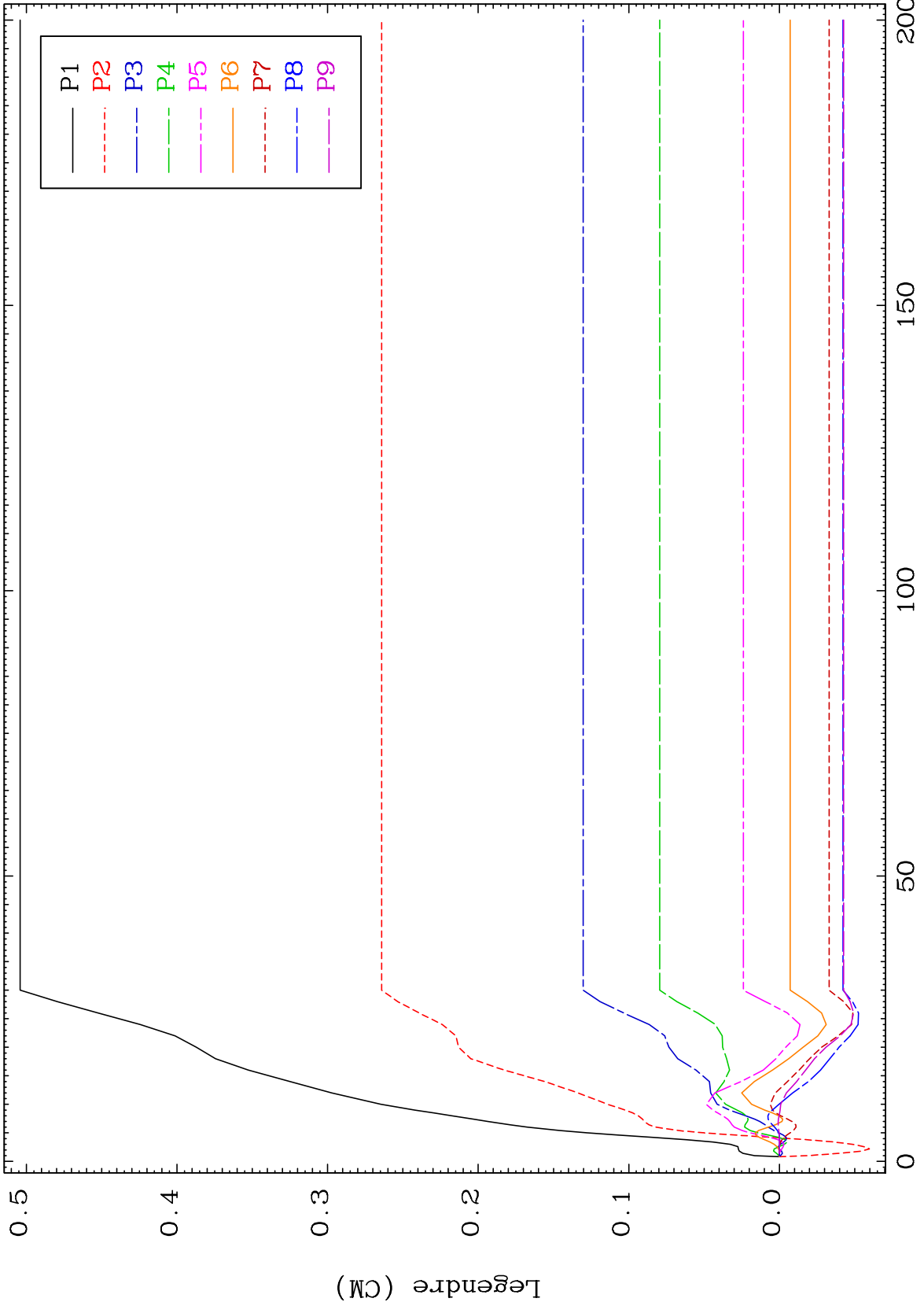
40-Zr-87



38

40-Zr-87

MAT 4016 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-87

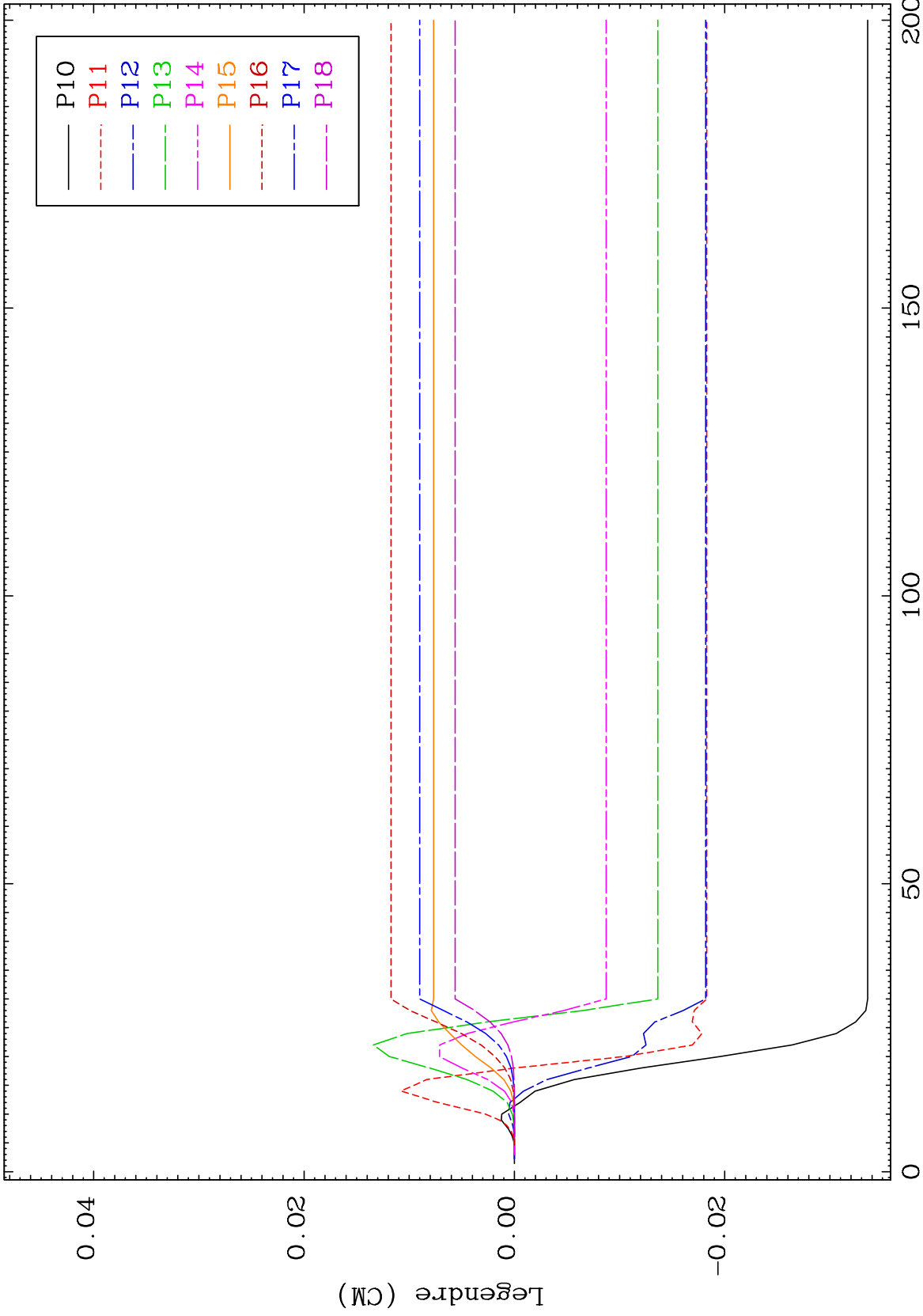


39 Incident Energy (MeV) 40-Zr-87

MAT 4016

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

40-Zr-87

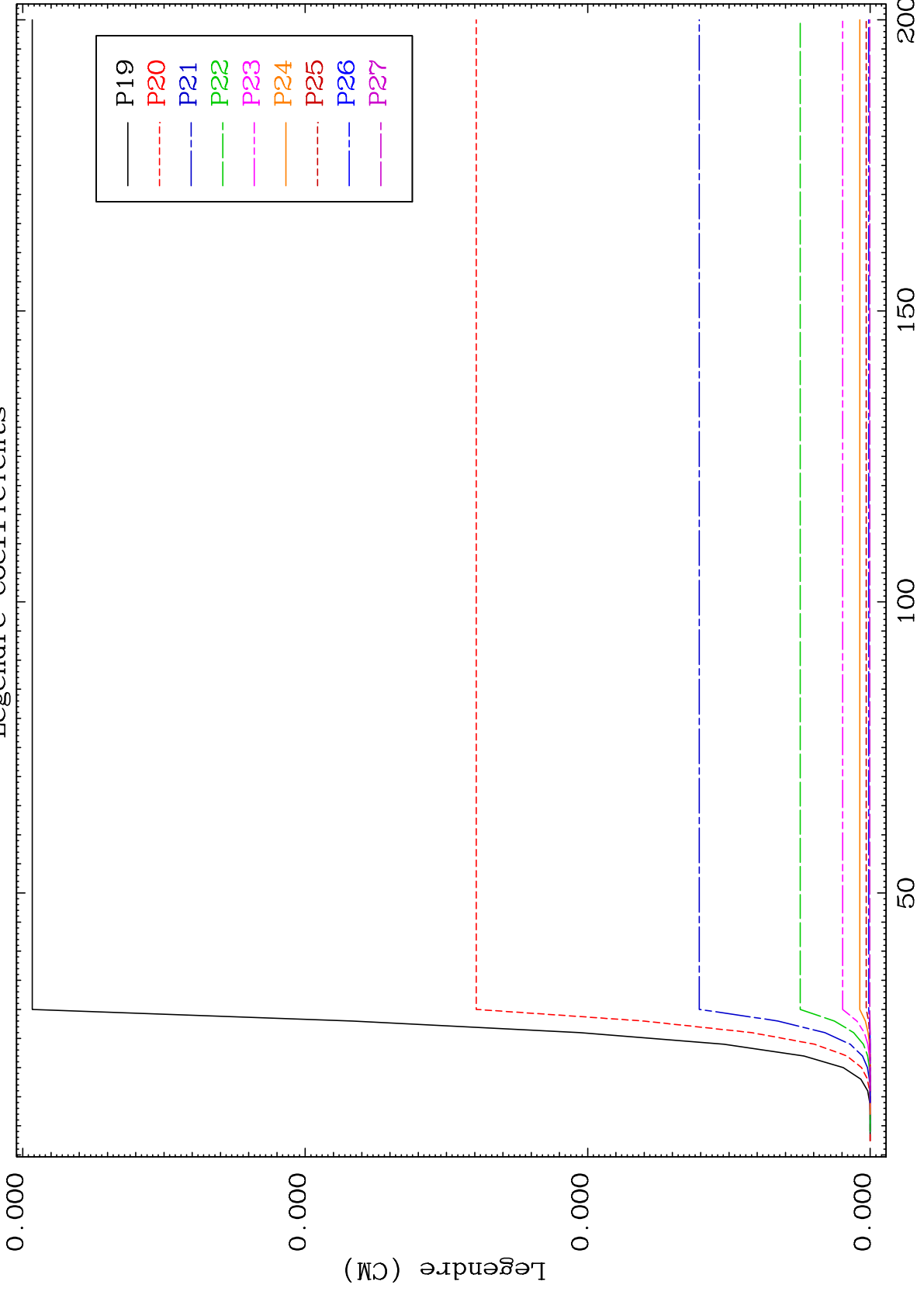


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Incident Energy (MeV)

40-Zr-87

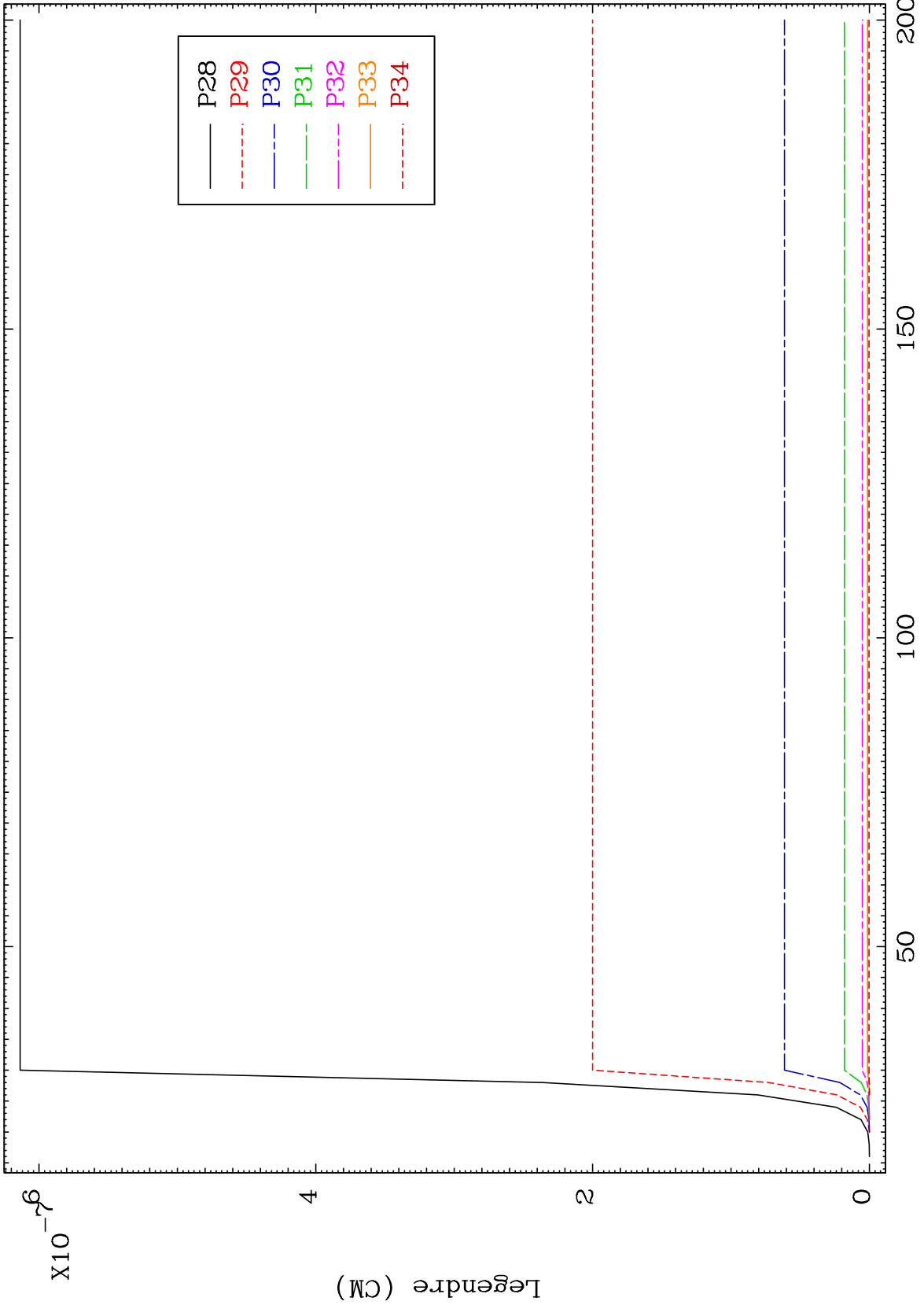
MAT 4016 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-87



MAT 4016

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

40-Zr-87

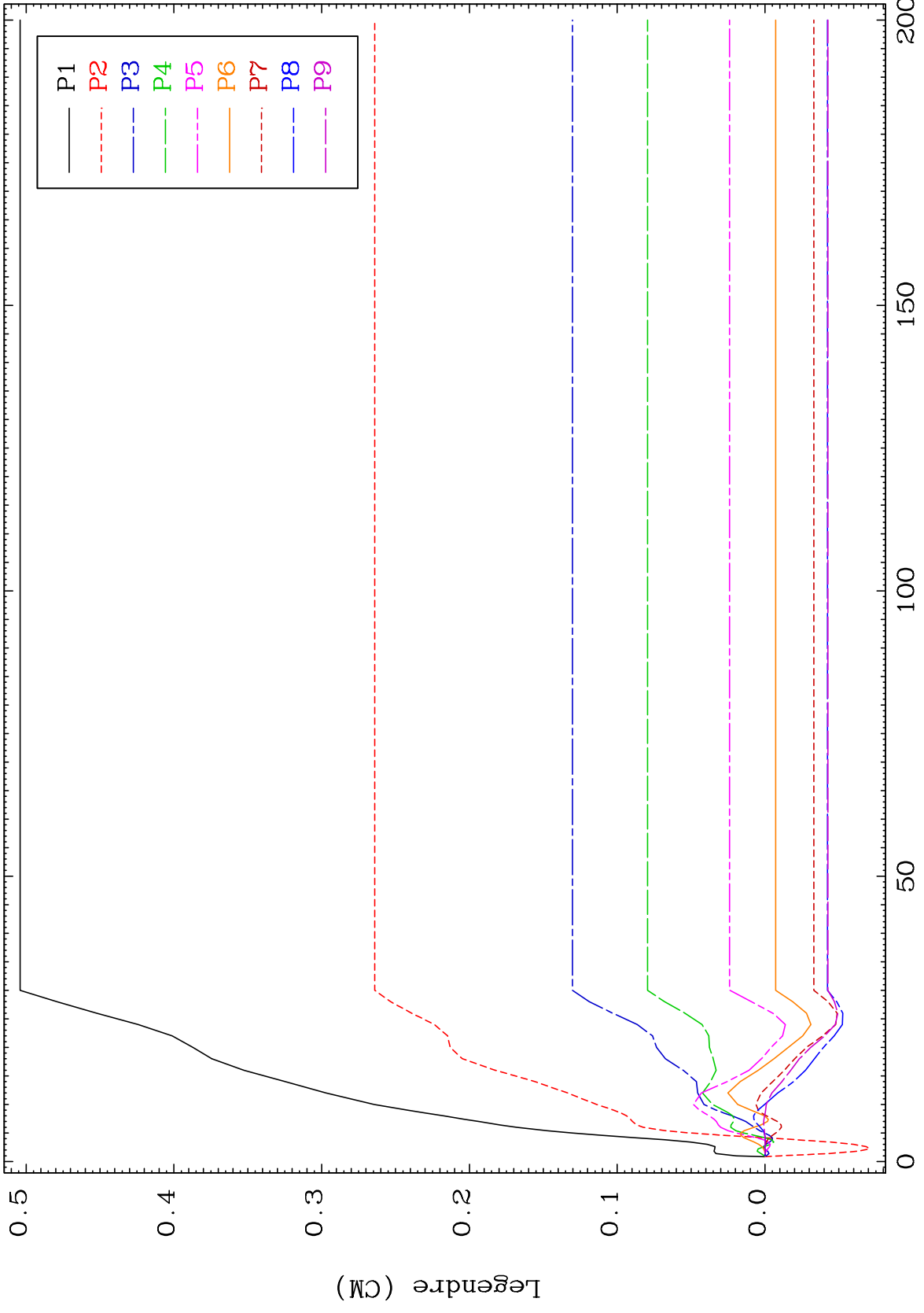


42

Incident Energy (MeV)

40-Zr-87

MAT 4016 MT= 57 (n,n') Level Legendre Coefficients 40-Zr-87

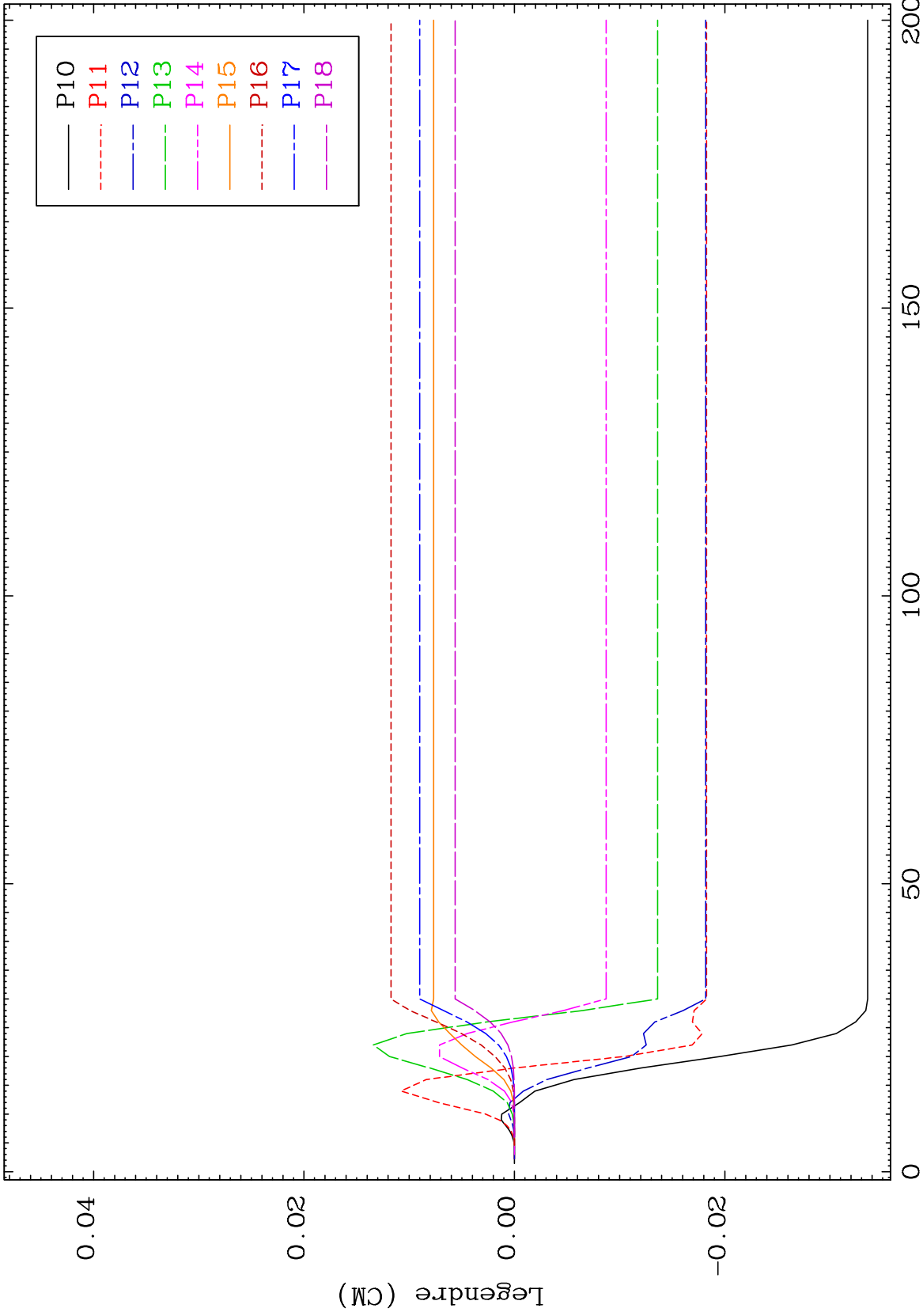


43 40-Zr-87

MAT 4016

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

40-Zr-87

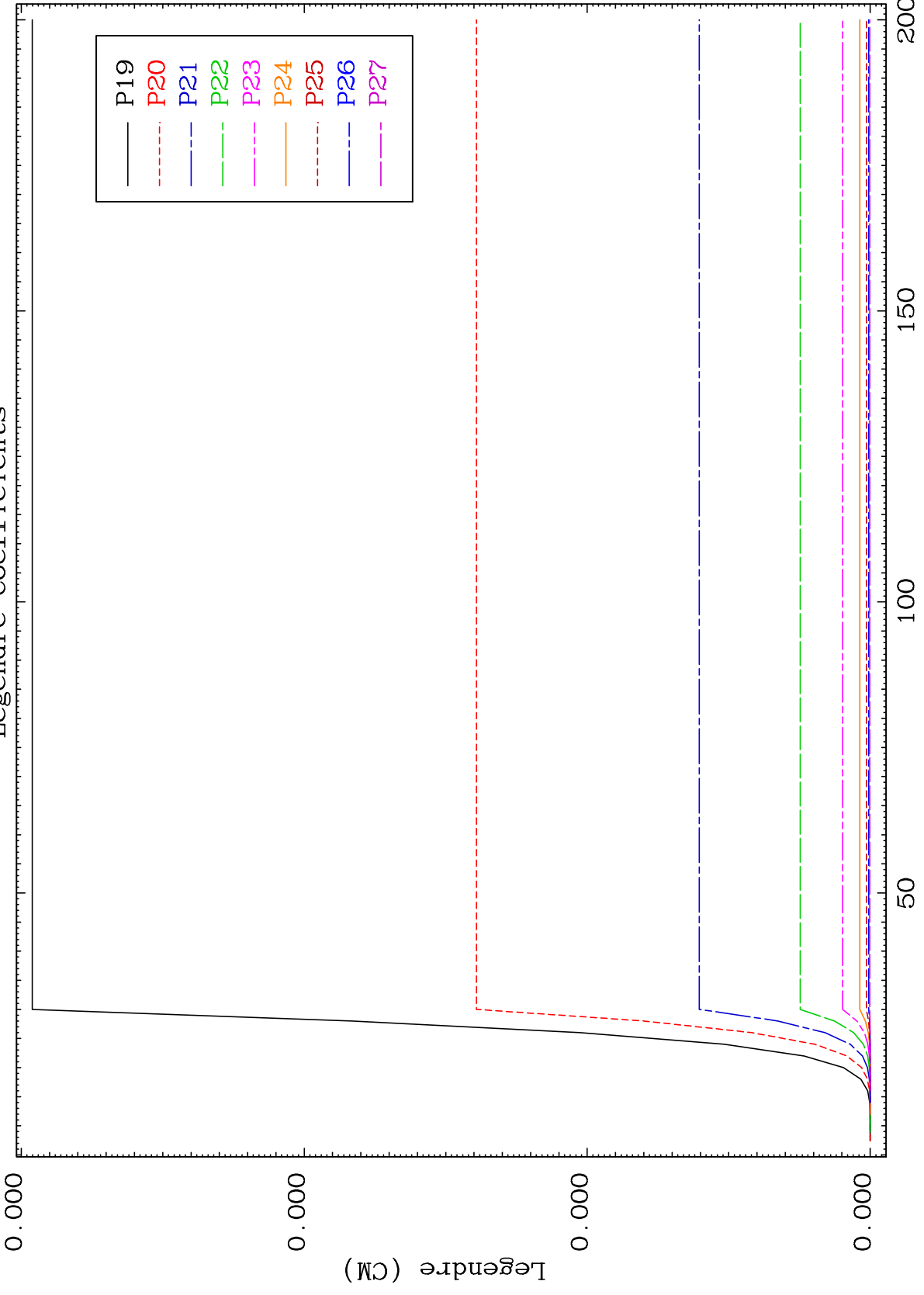


44

Incident Energy (MeV)

40-Zr-87

MAT 4016 MT= 57 (n,n') Level Legendre Coefficients 40-Zr-87

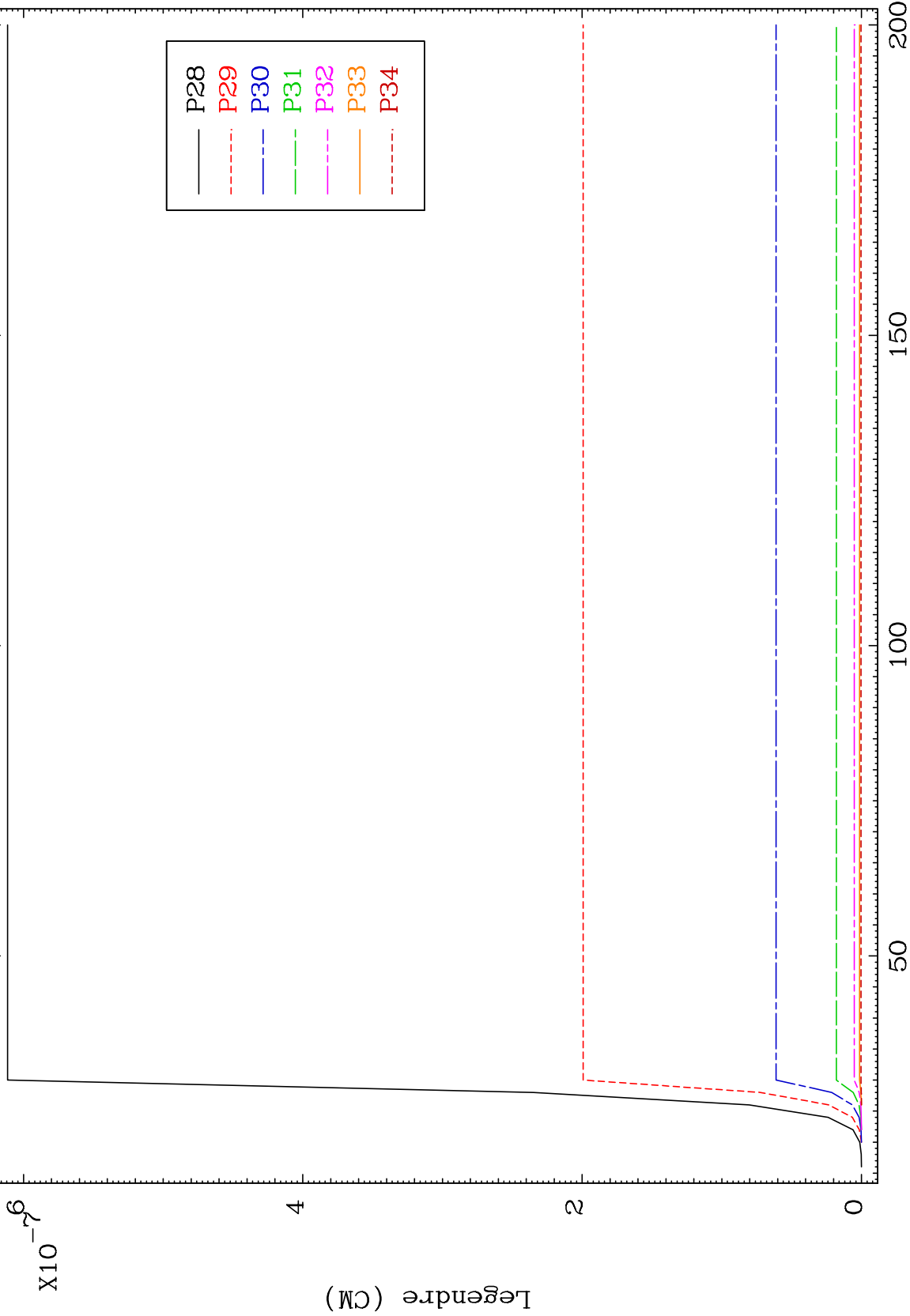


45 Incident Energy (MeV) 40-Zr-87

MAT 4016

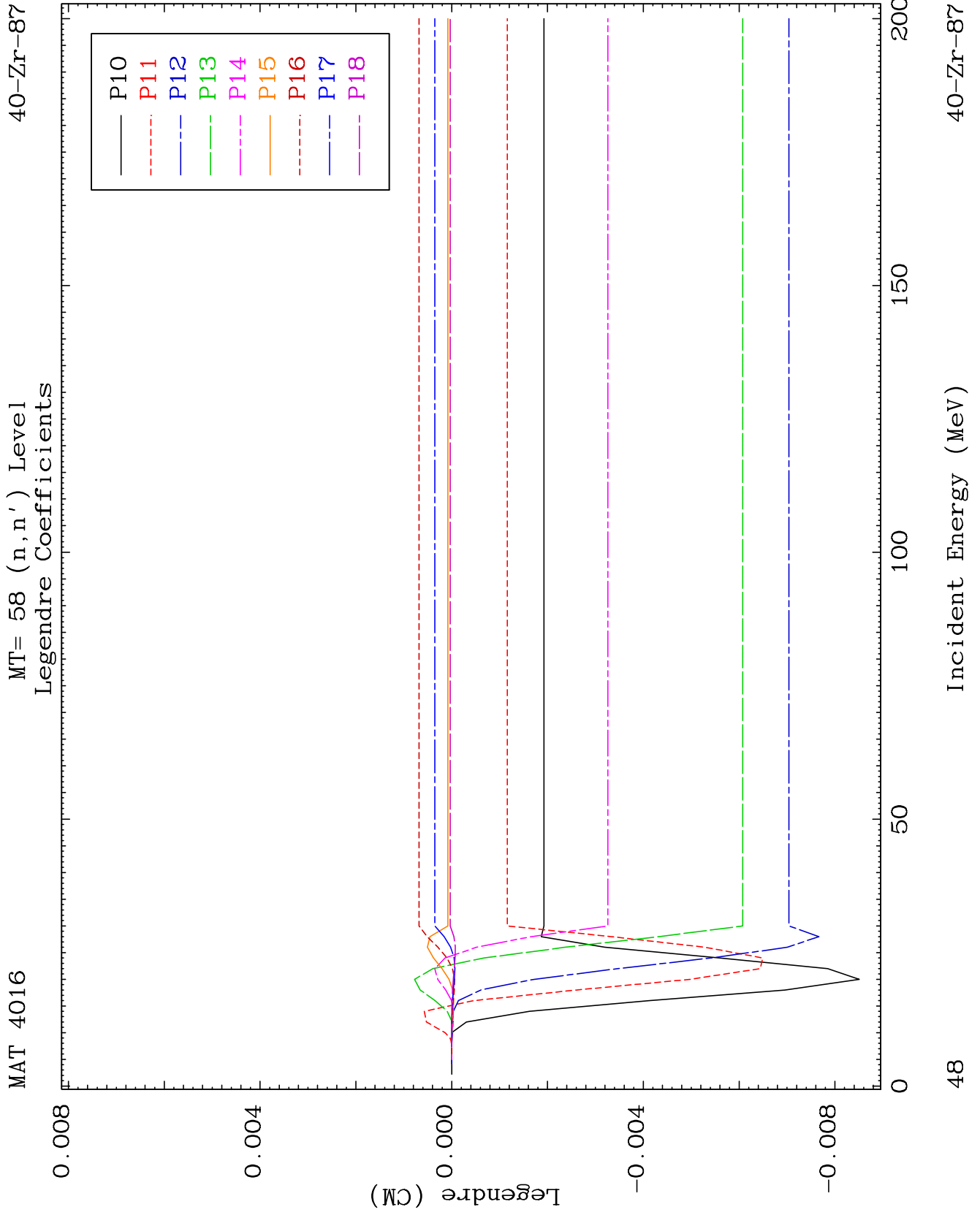
MT= 57 (n,n') Level
Legendre Coefficients

40-Zr-87



46

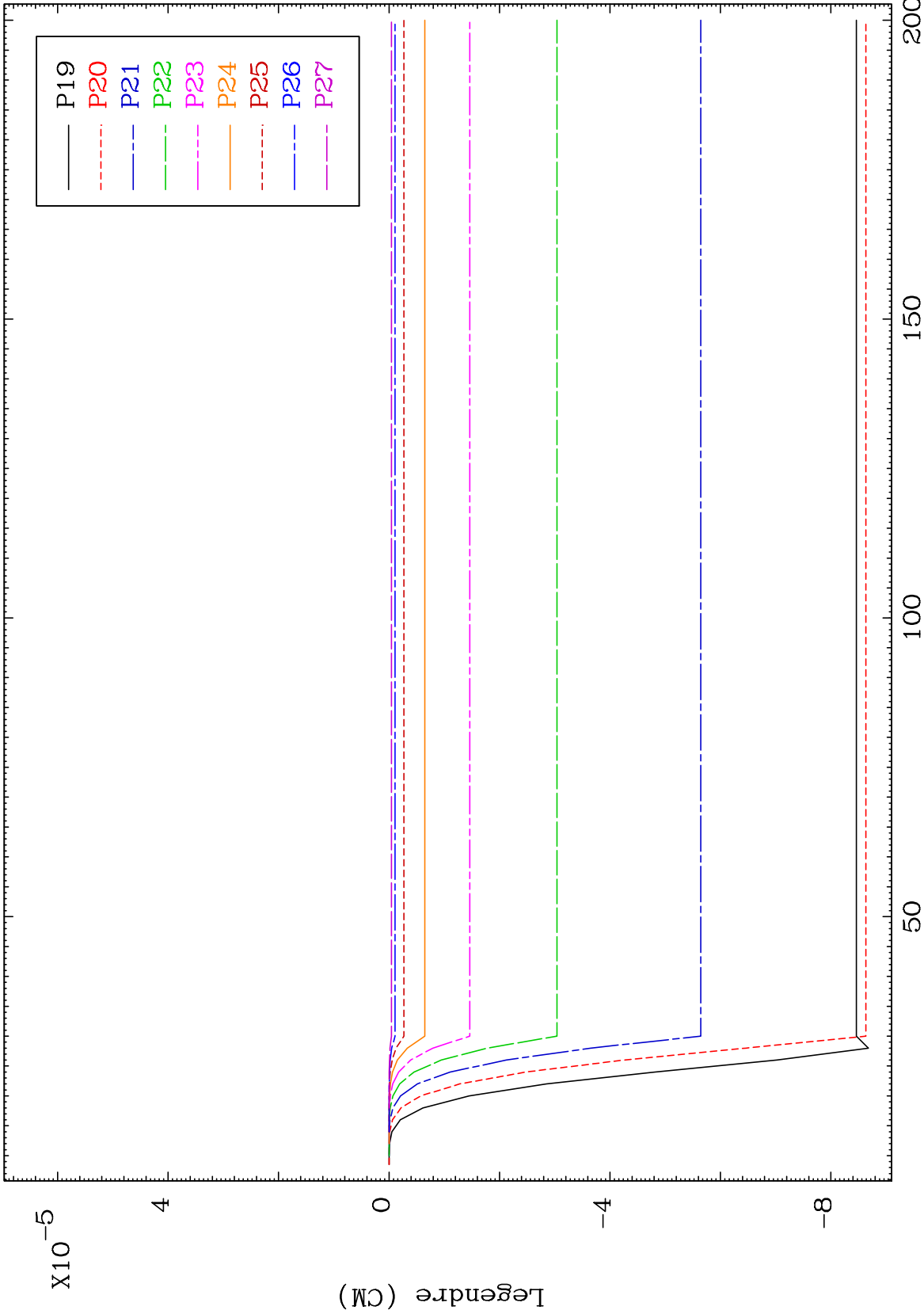
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MAT 4016

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

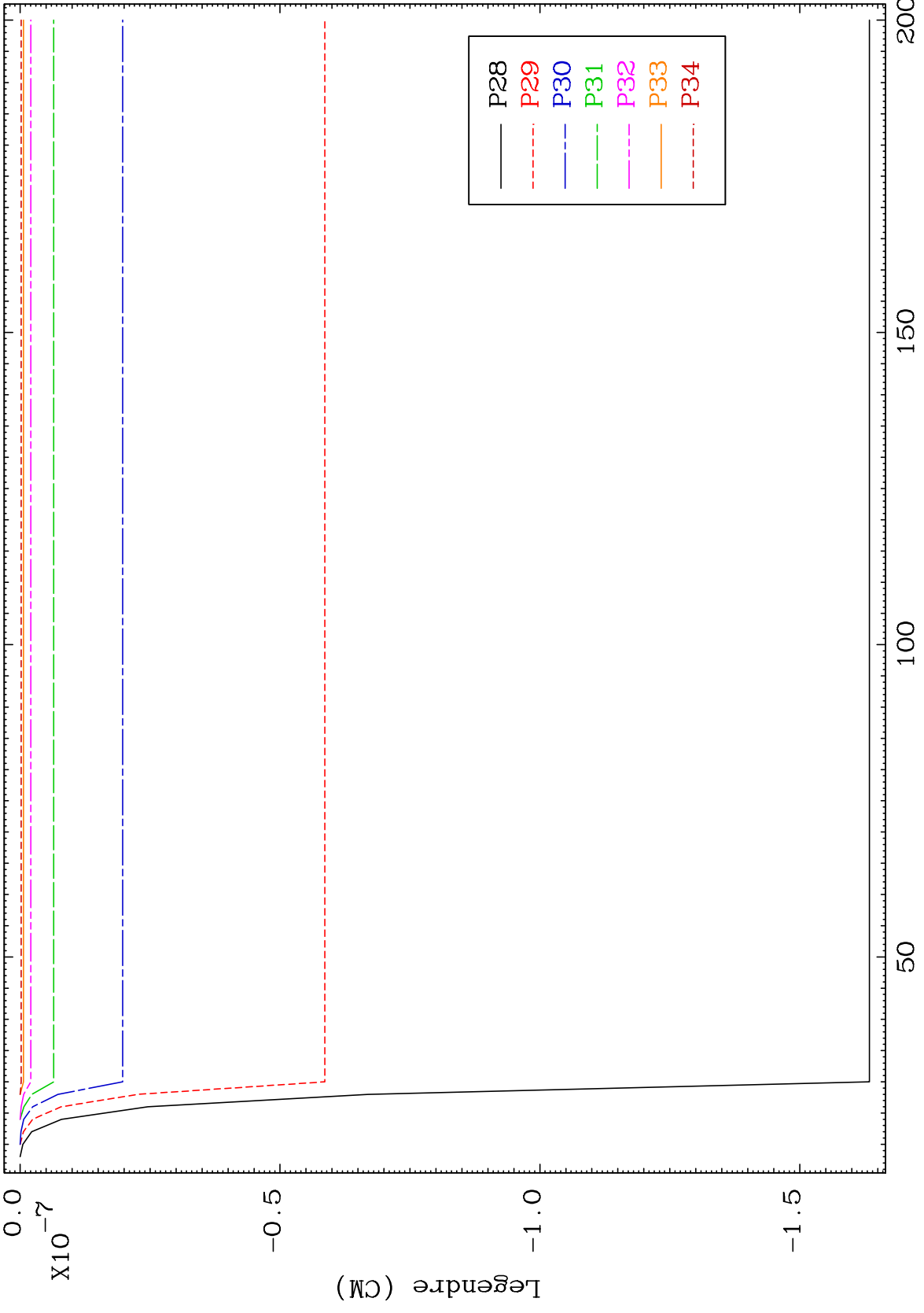
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49

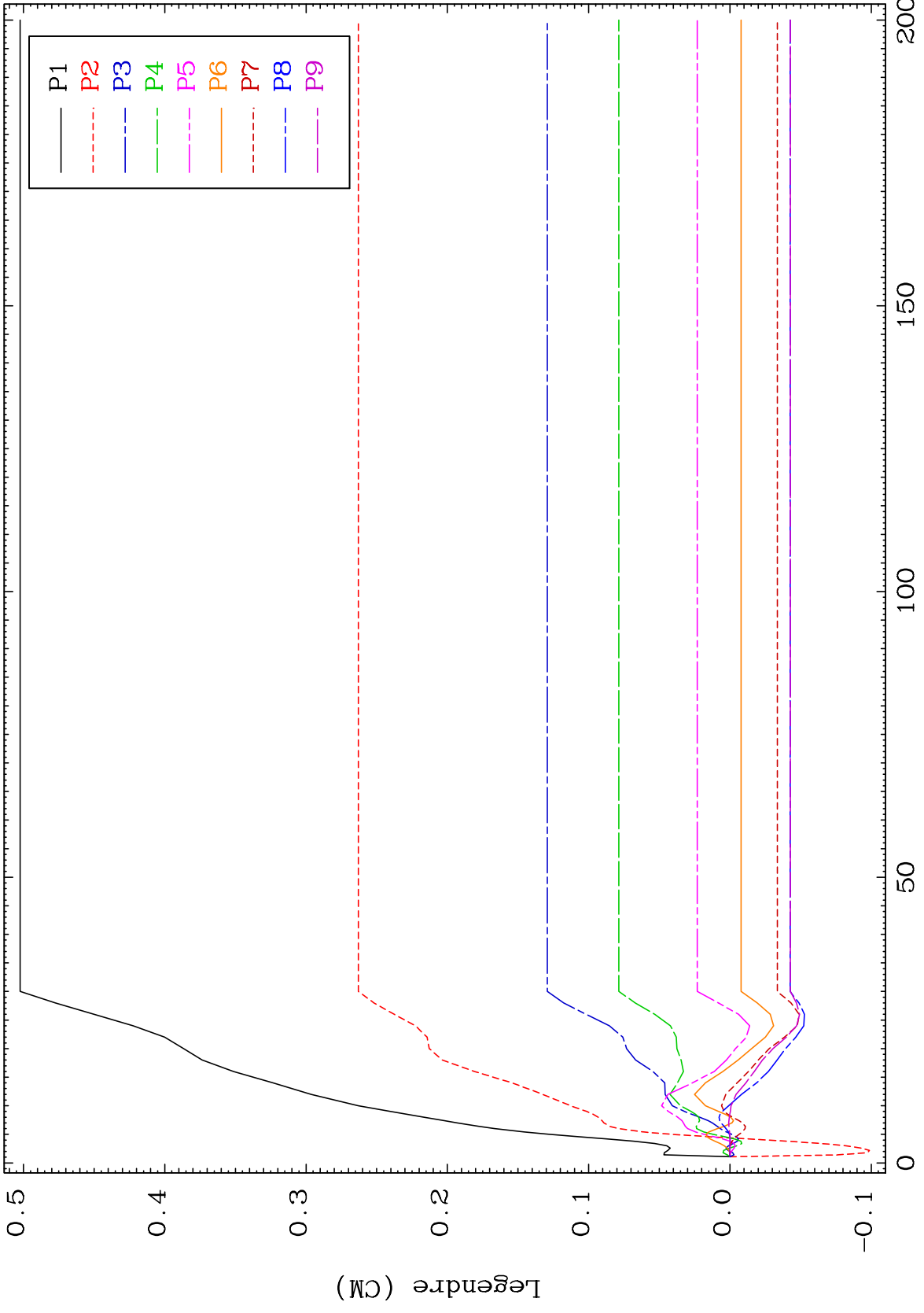
40-Zr-87

MAT 4016 MT= 58 (n,n') Level Legendre Coefficients 40-Zr-87



50 100 150 200 Incident Energy (MeV) 40-Zr-87

MAT 4016 MT= 59 (n,n') Level Legendre Coefficients 40-Zr-87

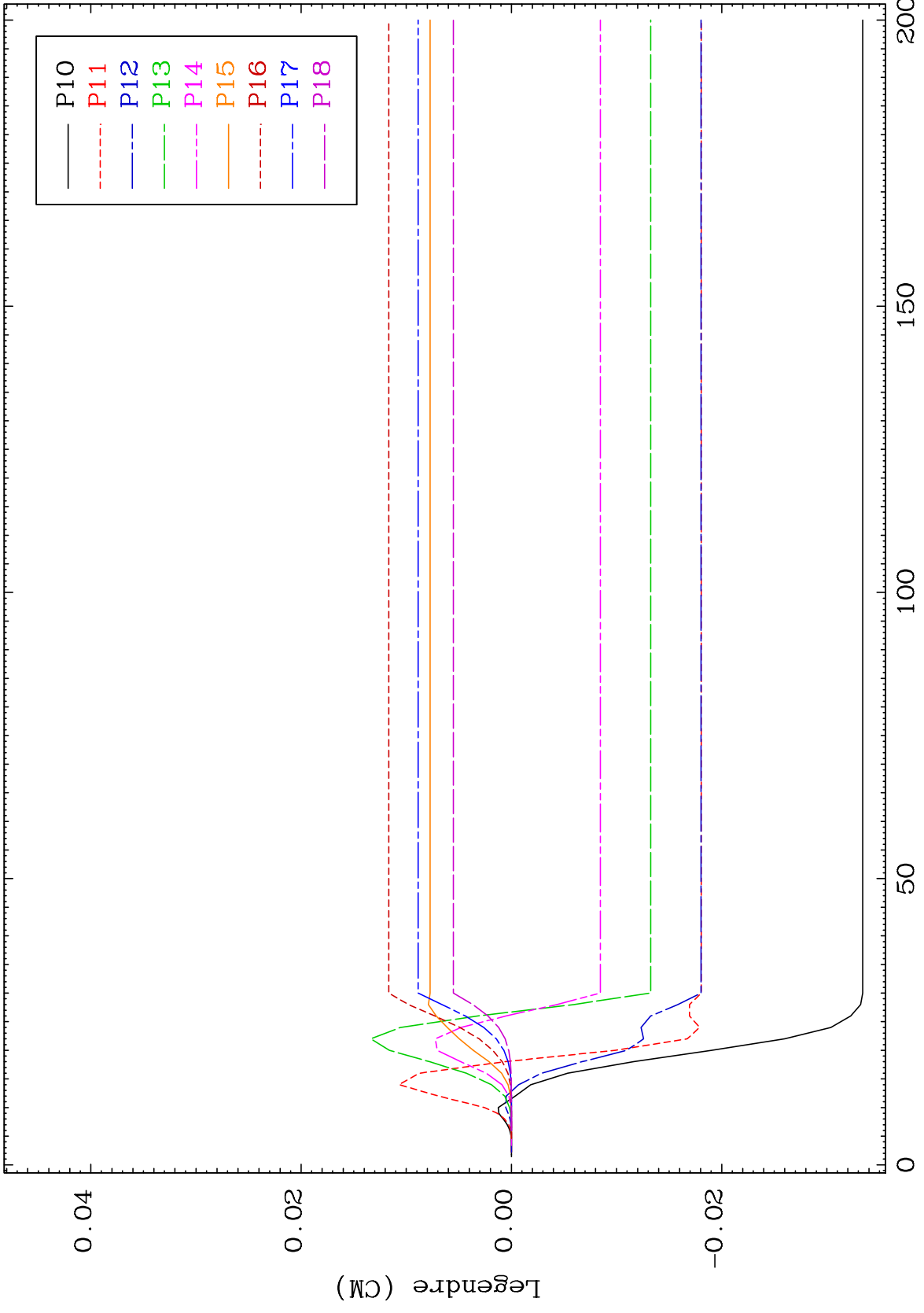


51 40-Zr-87

MAT 4016

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

40-Zr-87



52

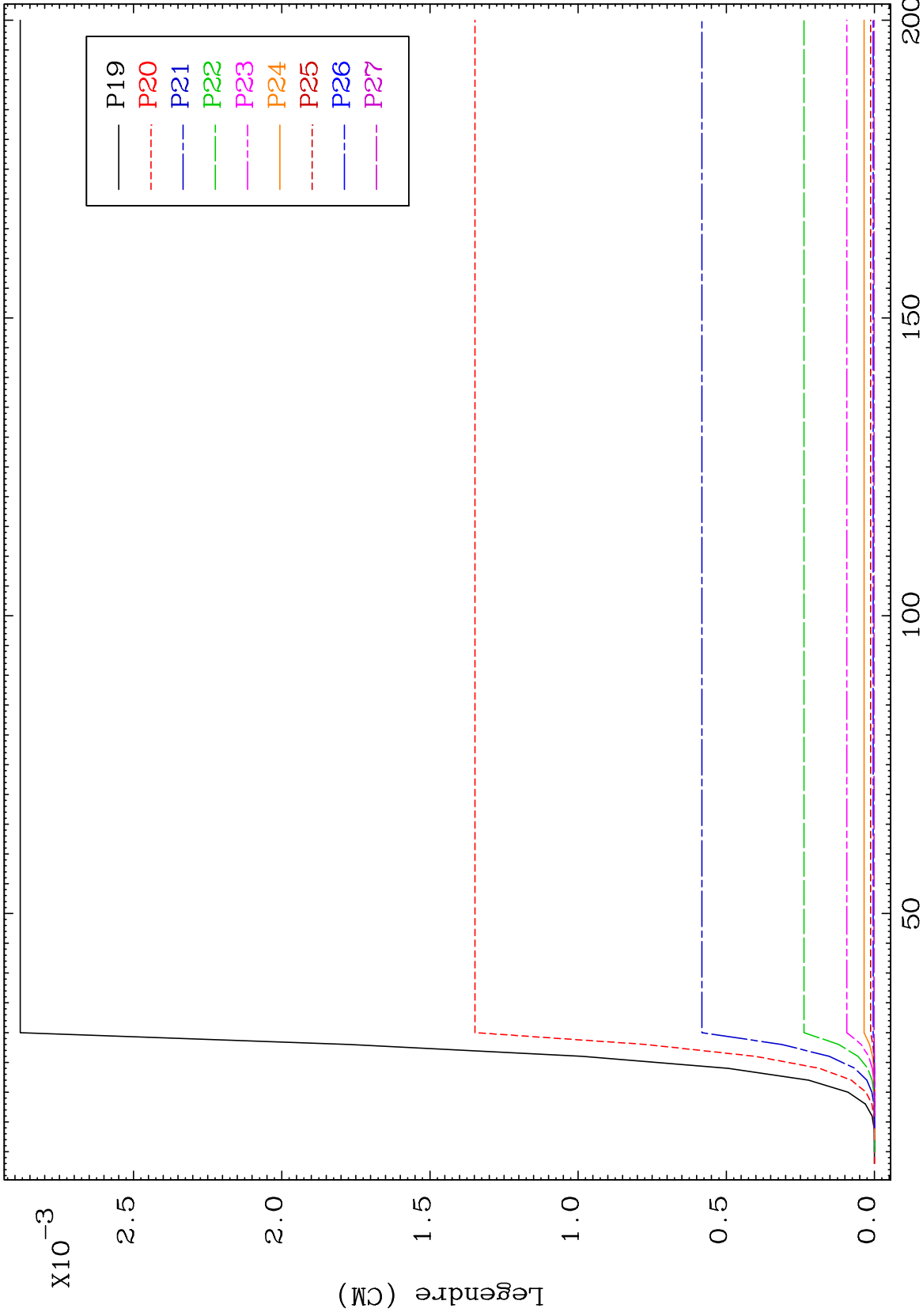
Incident Energy (MeV)

40-Zr-87

MAT 4016

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

40-Zr-87



53

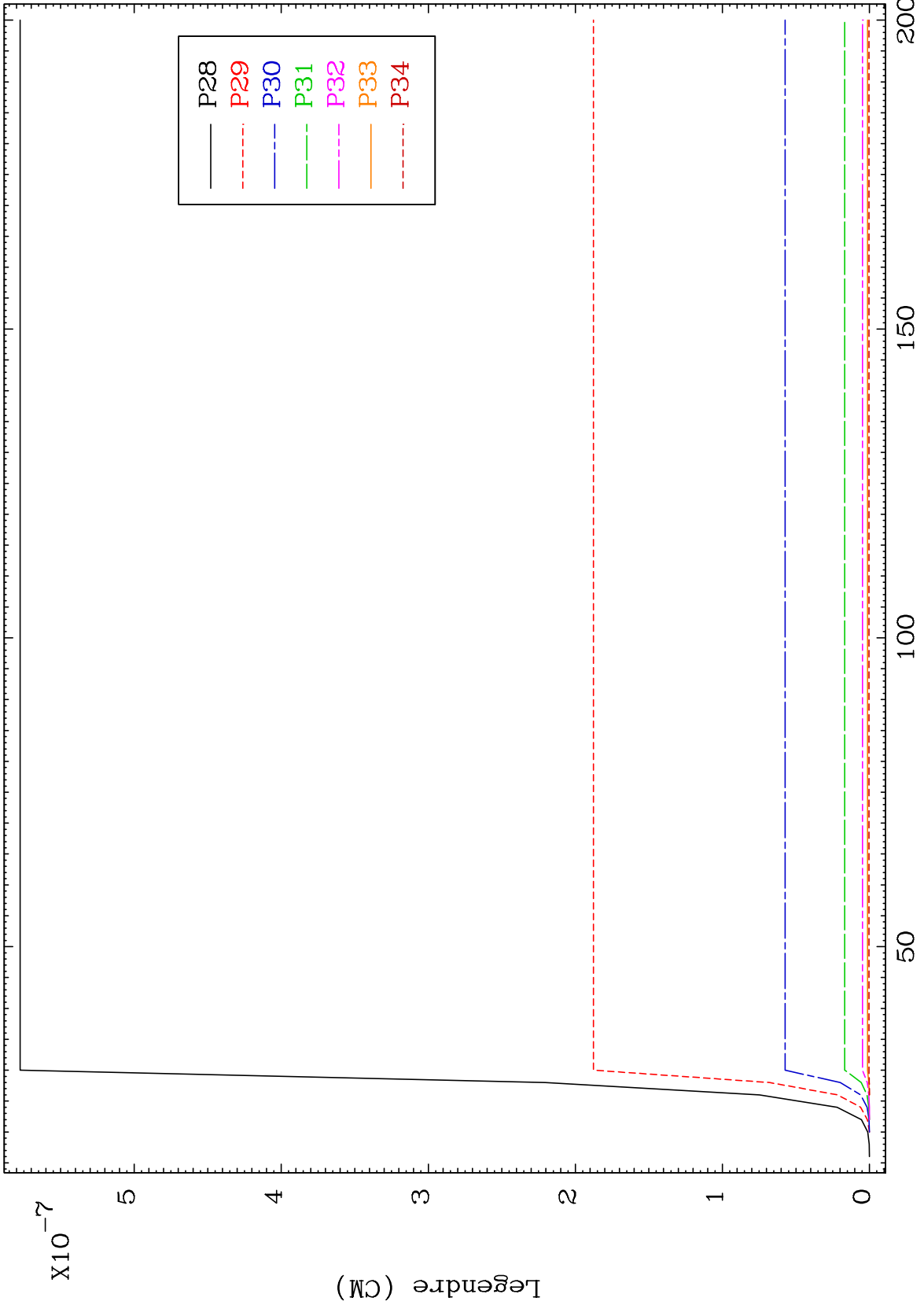
Incident Energy (MeV)

40-Zr-87

MAT 4016

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

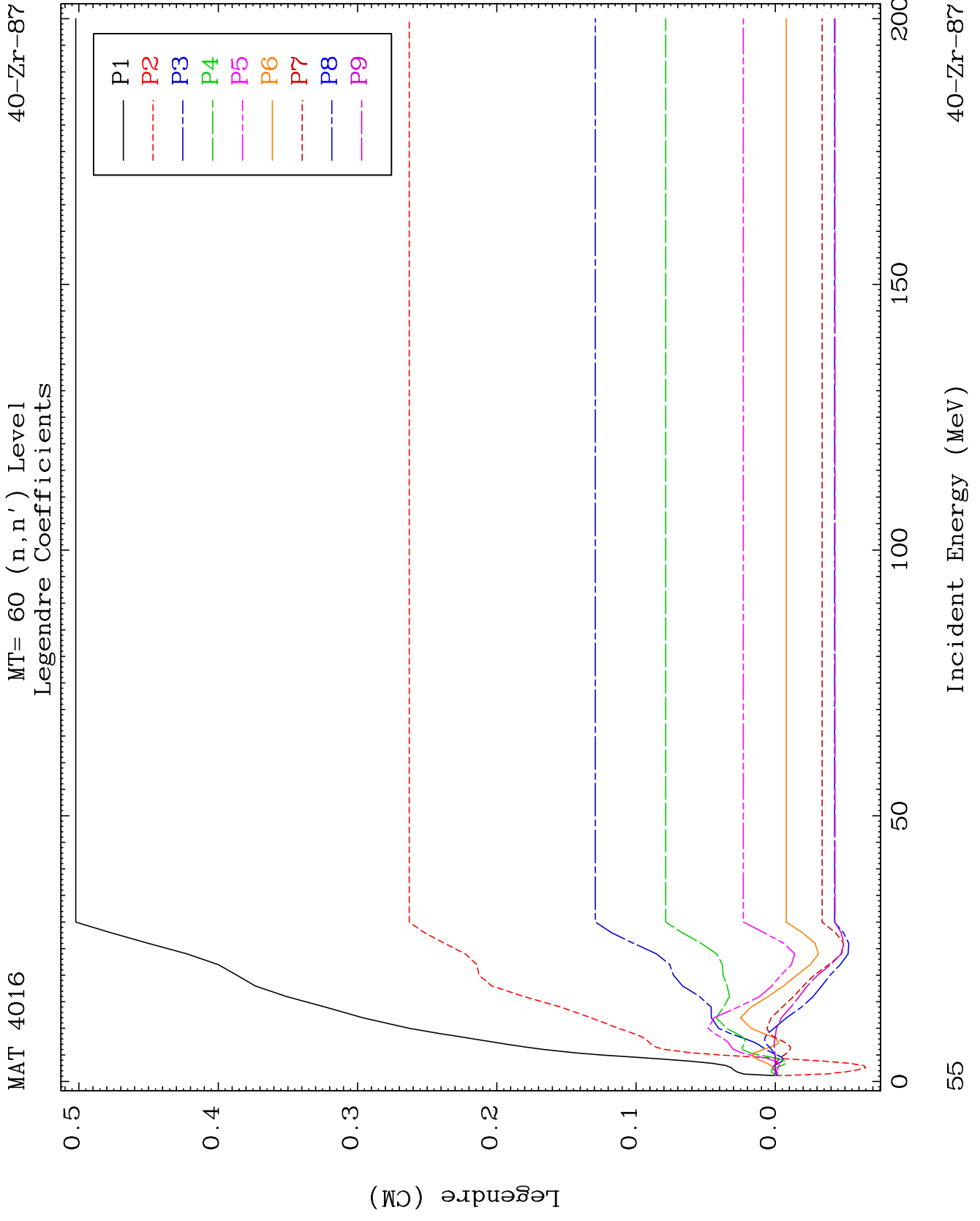
40-Zr-87



54

Incident Energy (MeV)

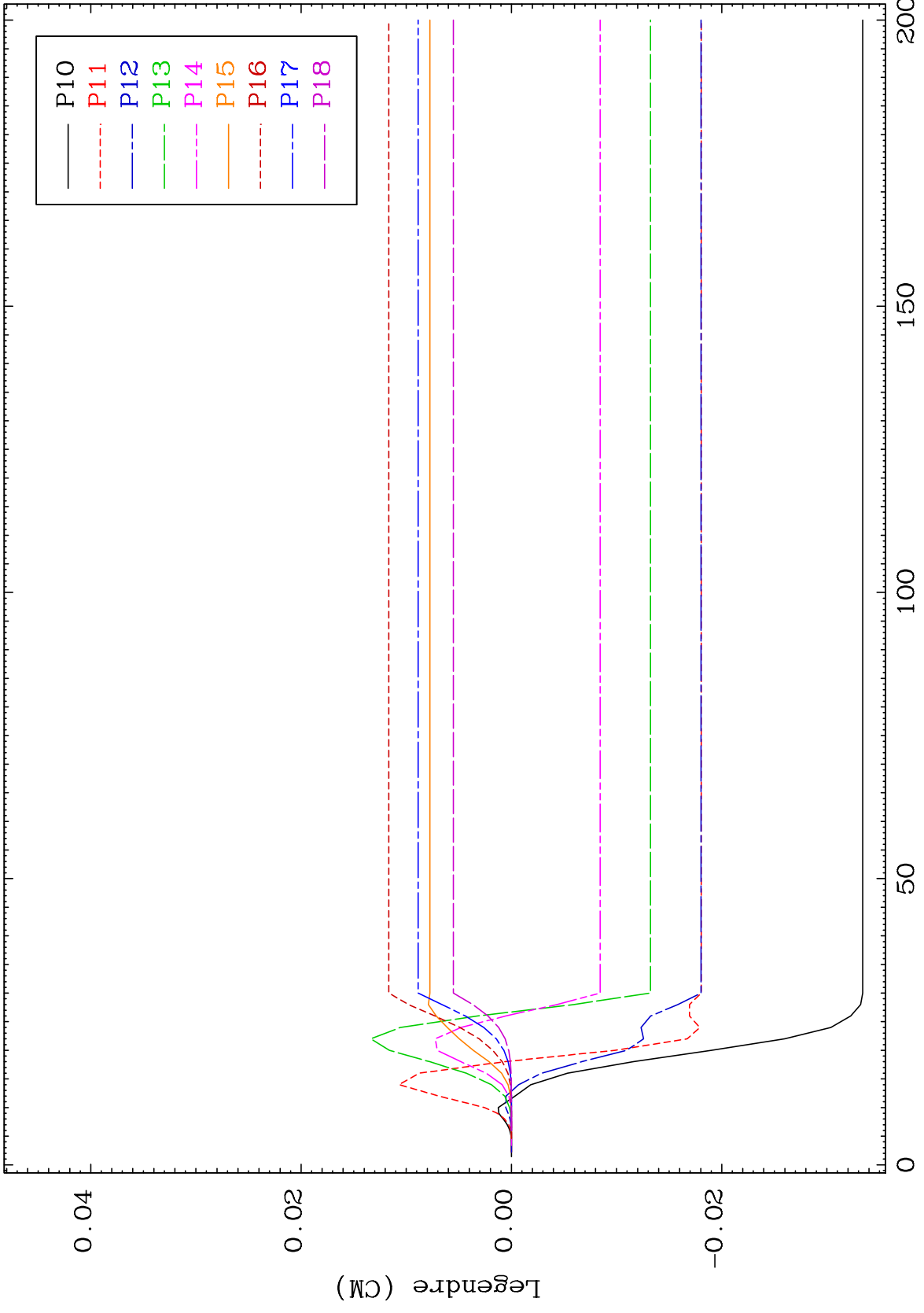
40-Zr-87



MAT 4016

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

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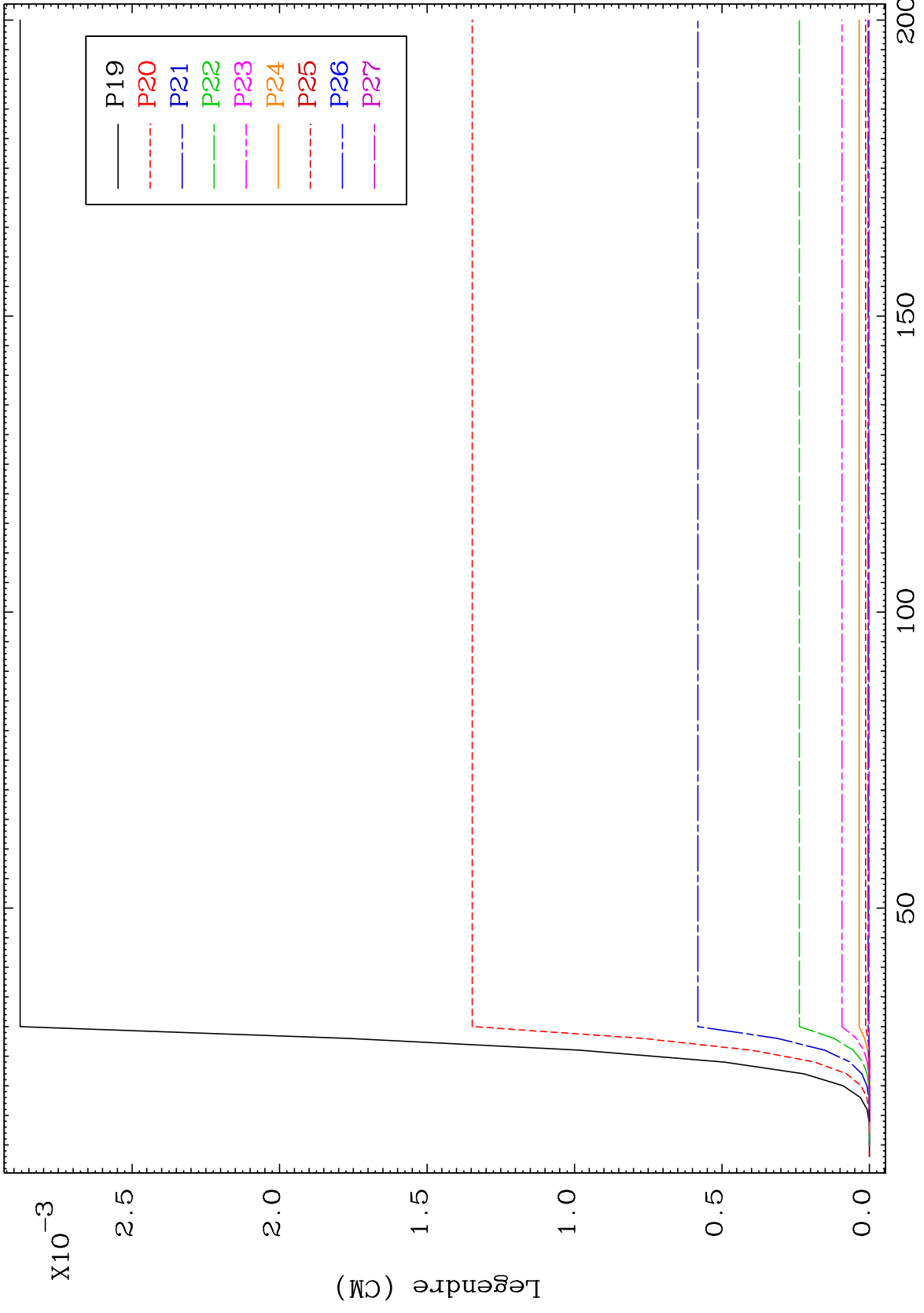


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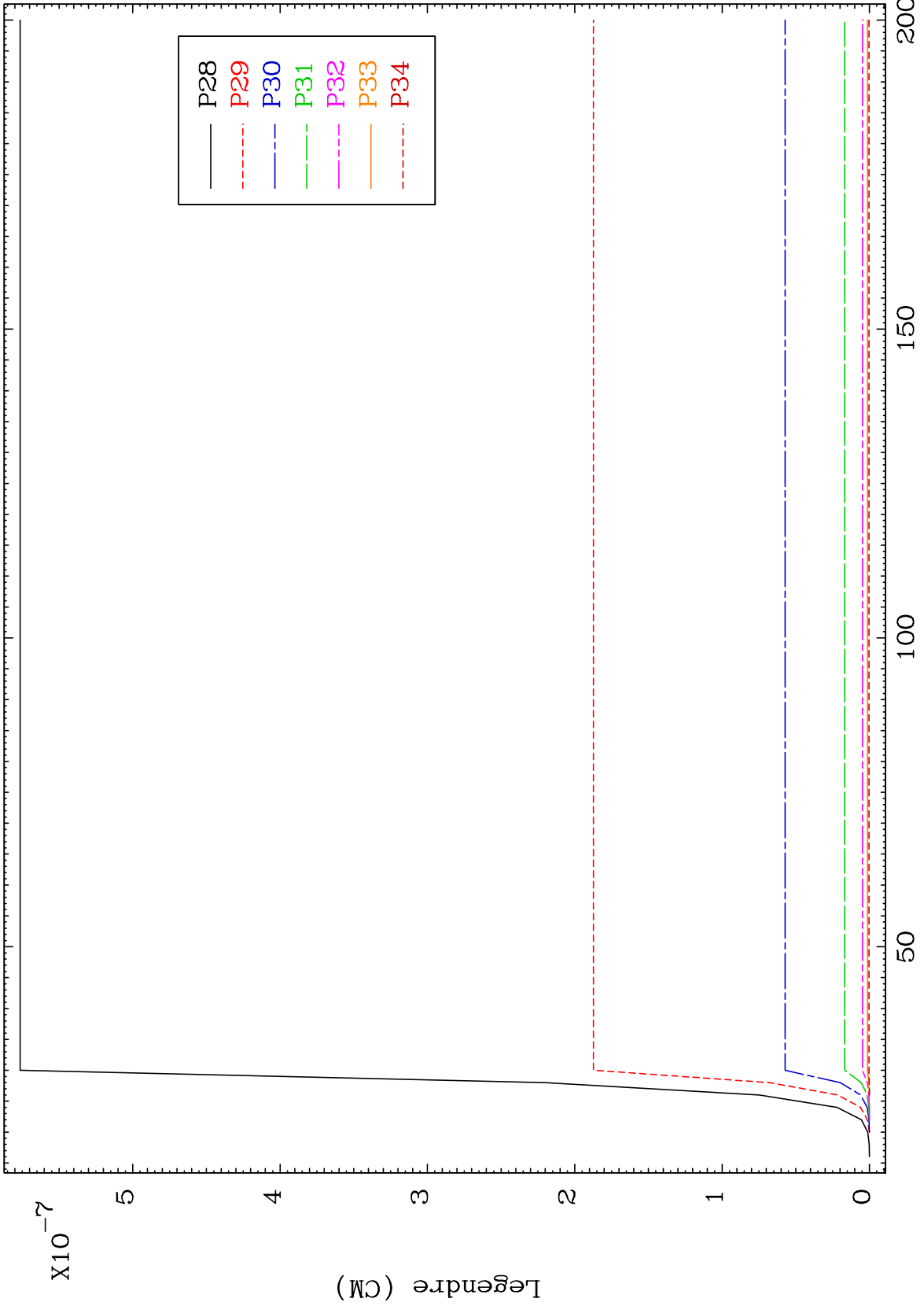
Incident Energy (MeV)

40-Zr-87

MAT 4016 MT= 60 (n,n') Level Legendre Coefficients 40-Zr-87

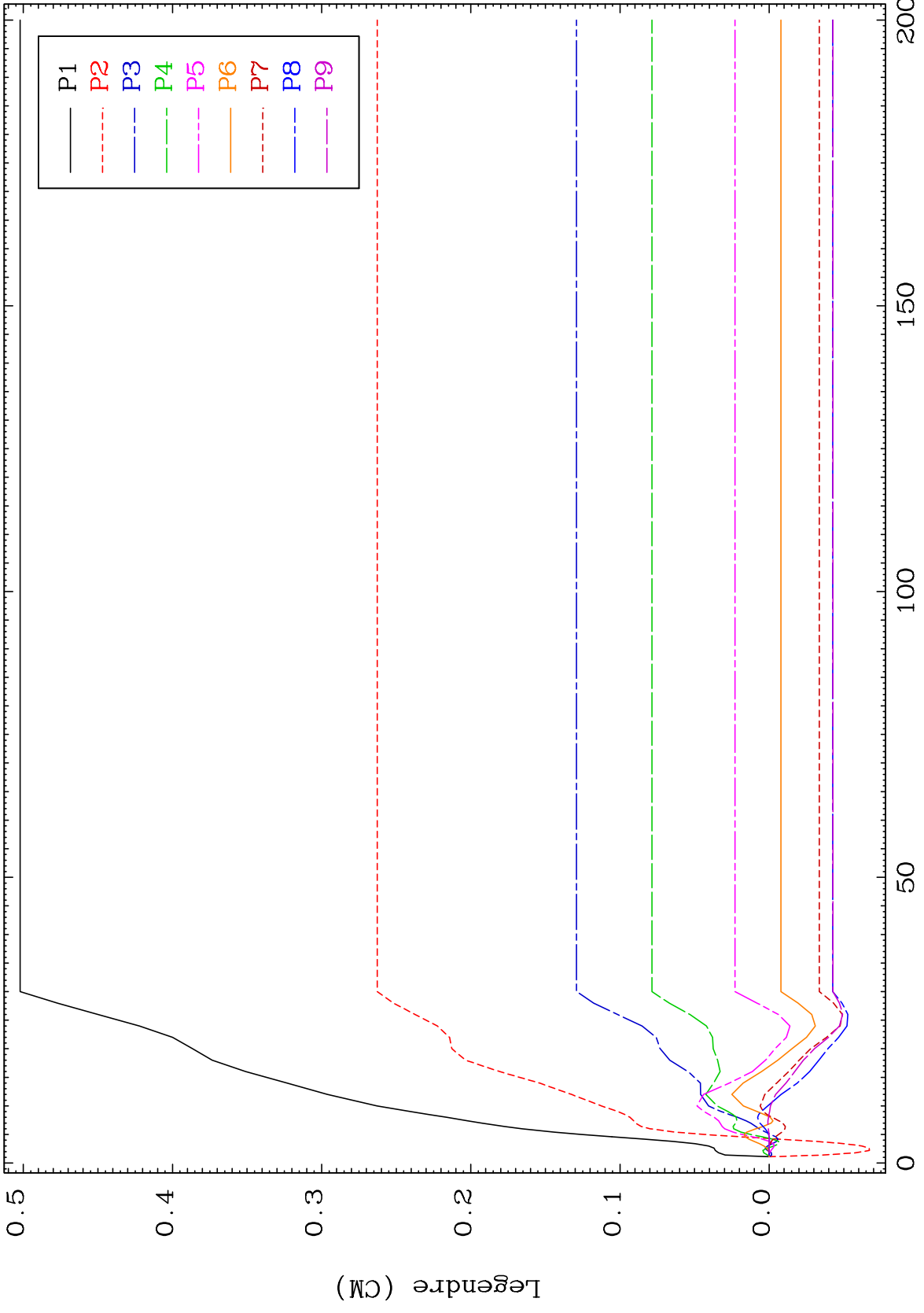


MAT 4016 MT= 60 (n, n') Level Legendre Coefficients 40-Zr-87



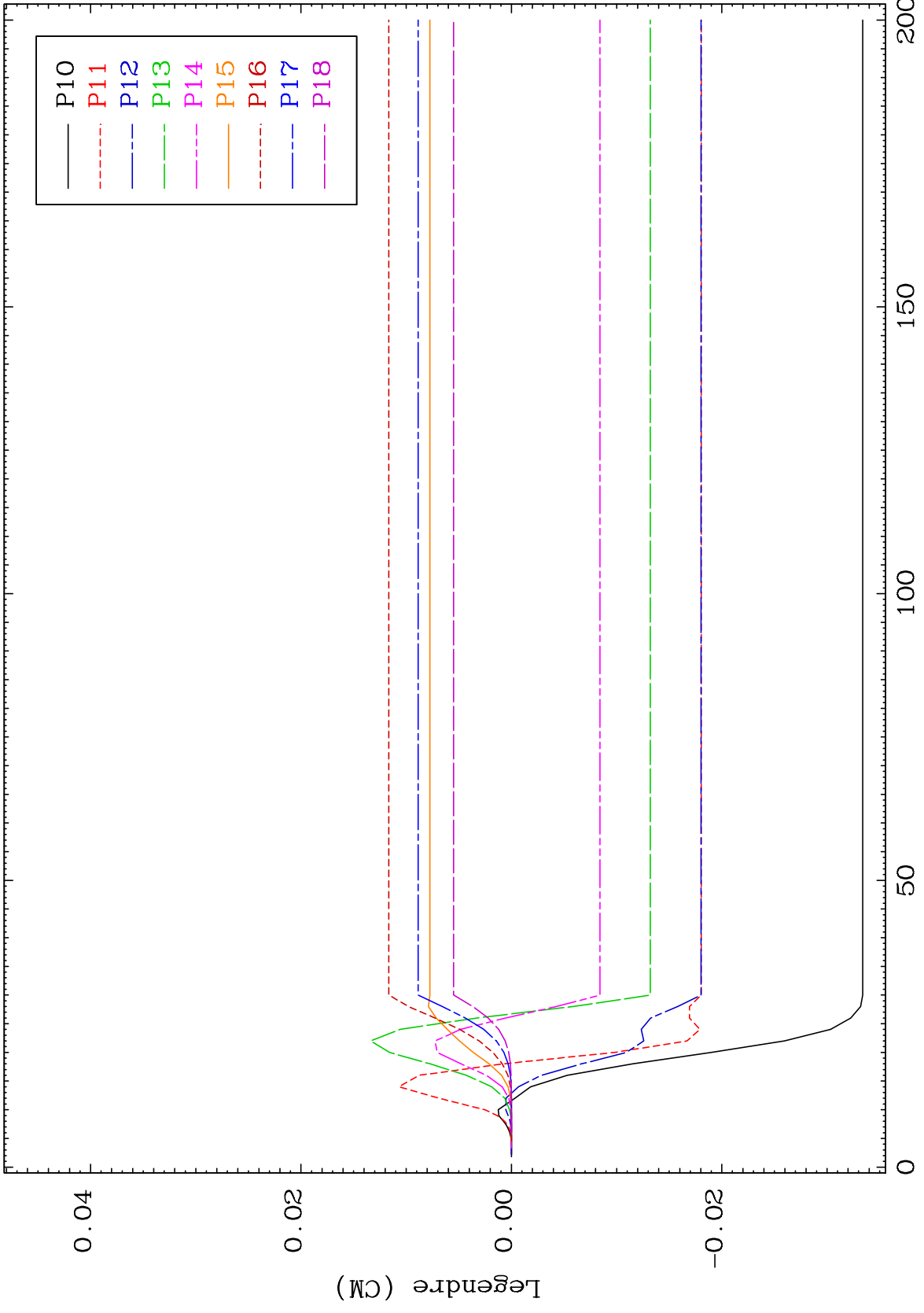
58 40-Zr-87

MAT 4016 MT= 61 (n,n') Level Legendre Coefficients 40-Zr-87



59 Incident Energy (MeV) 40-Zr-87

MAT 4016 MT= 61 (n,n') Level Legendre Coefficients 40-Zr-87

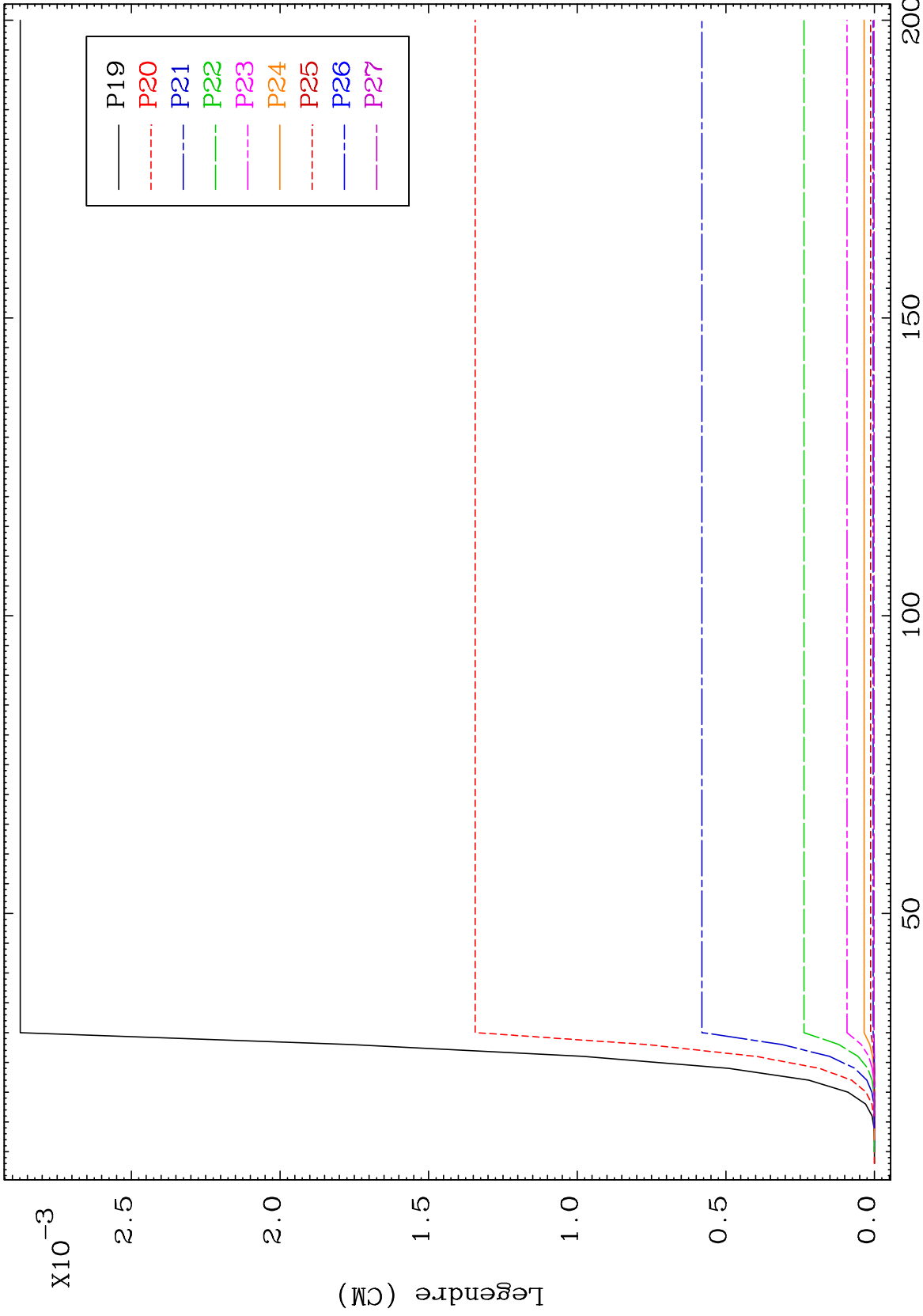


60 Incident Energy (MeV) 40-Zr-87

MAT 4016

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

40-Zr-87

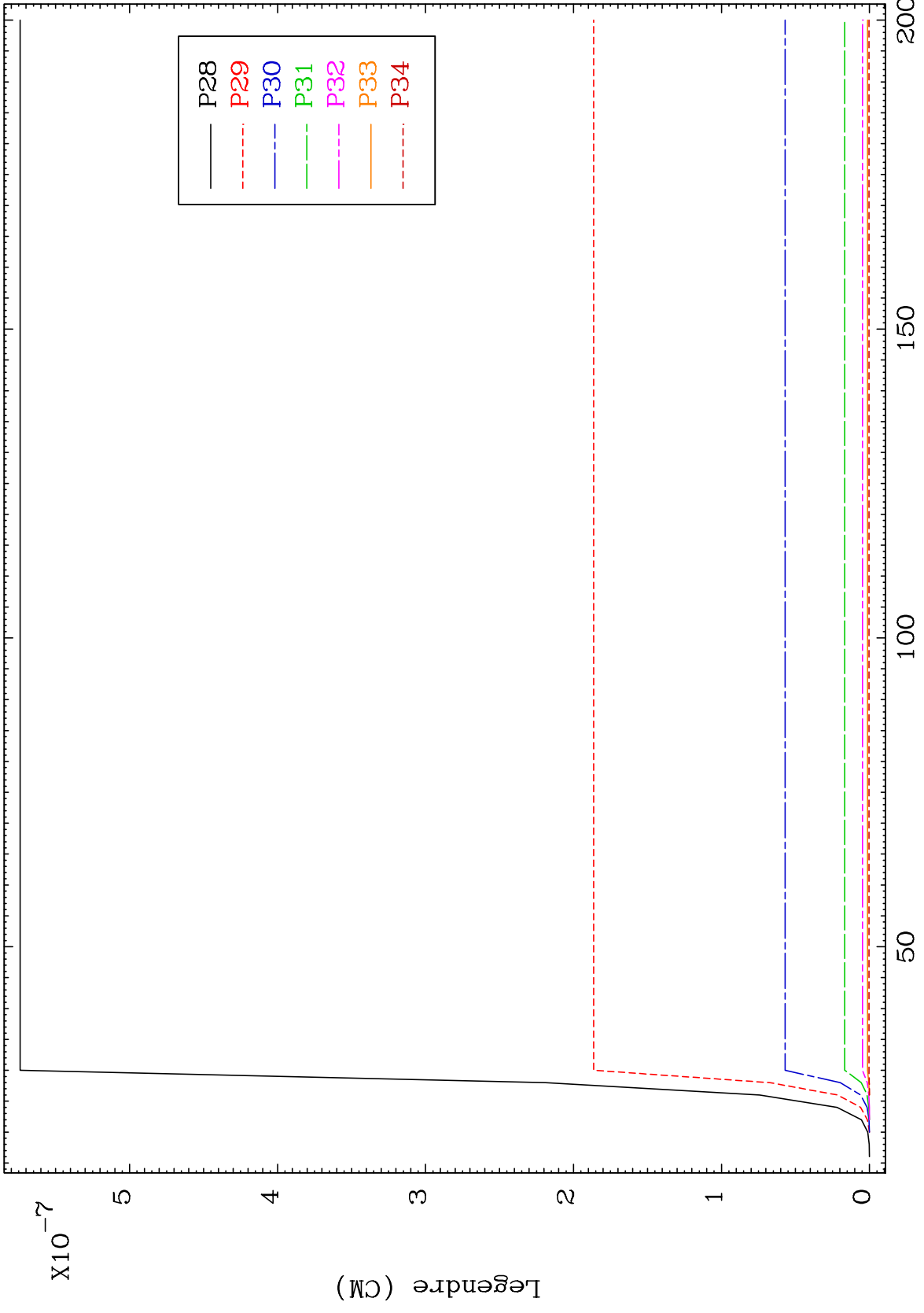


61

Incident Energy (MeV)

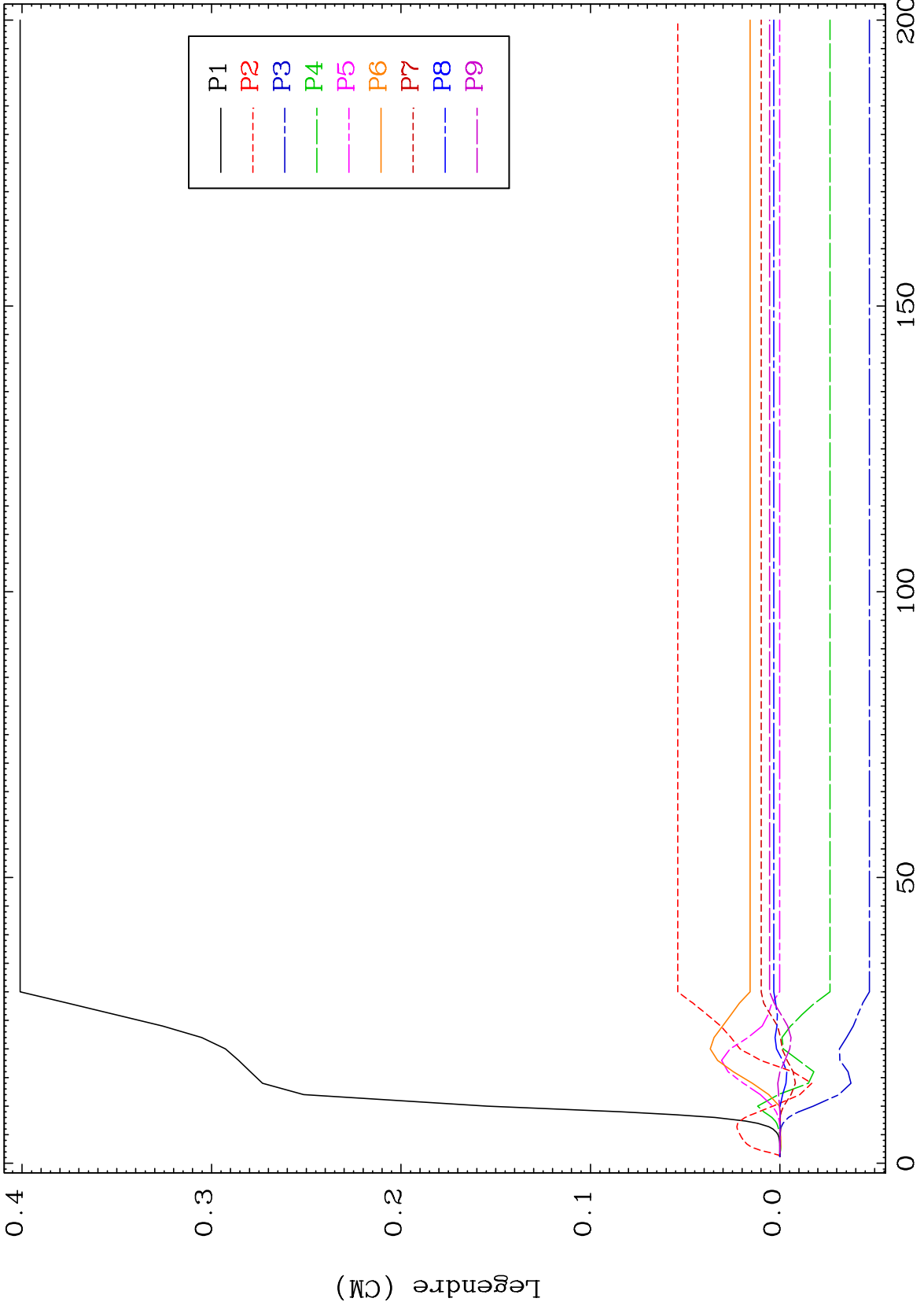
40-Zr-87

MAT 4016 MT= 61 (n,n') Level Legendre Coefficients 40-Zr-87



62 40-Zr-87

MAT 4016 MT= 62 (n,n') Level Legendre Coefficients 40-Zr-87



40-Zr-87

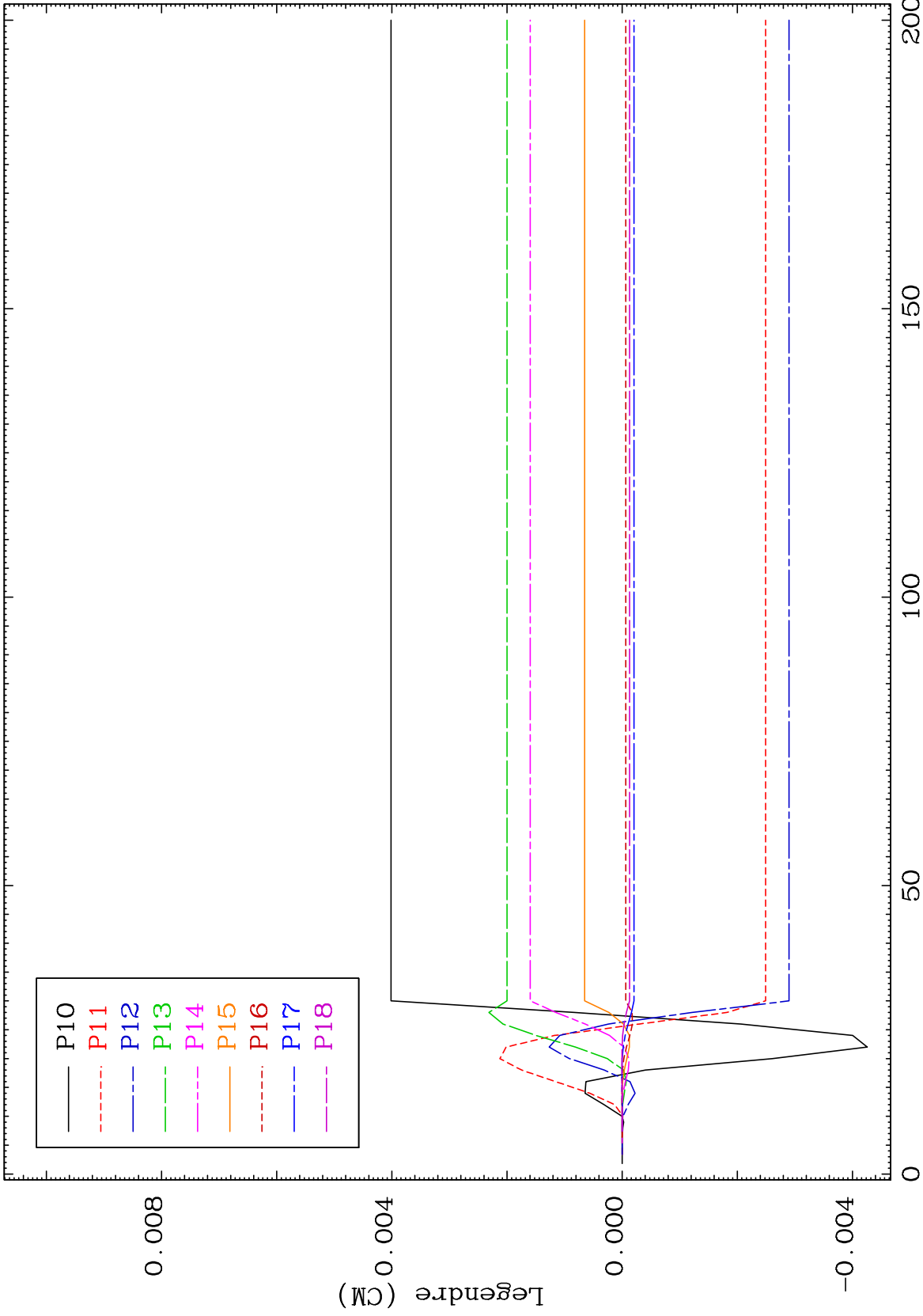
Incident Energy (MeV)

63

MAT 4016

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

40-Zr-87

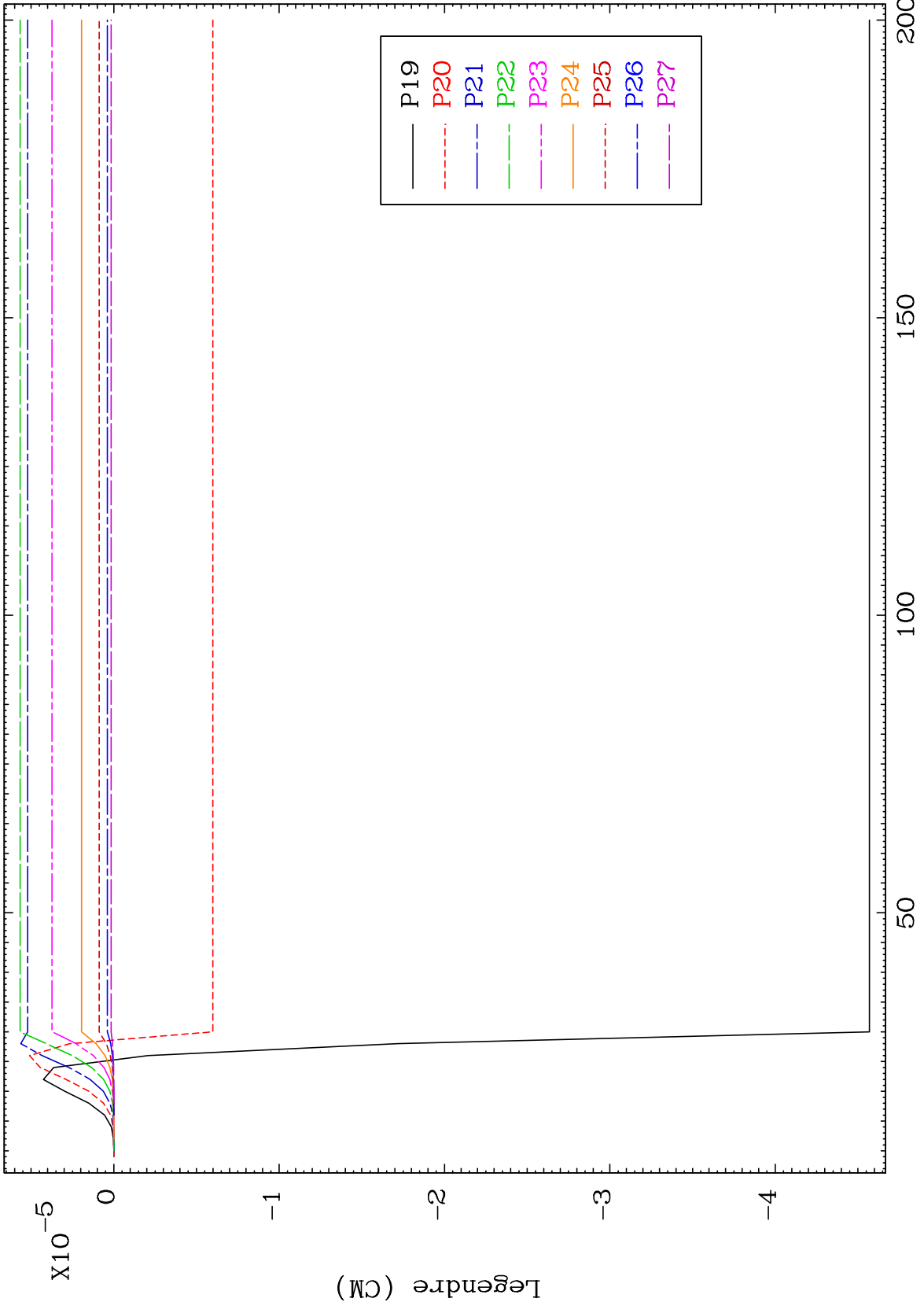


64

Incident Energy (MeV)

40-Zr-87

MAT 4016 MT= 62 (n,n') Level Legendre Coefficients 40-Zr-87

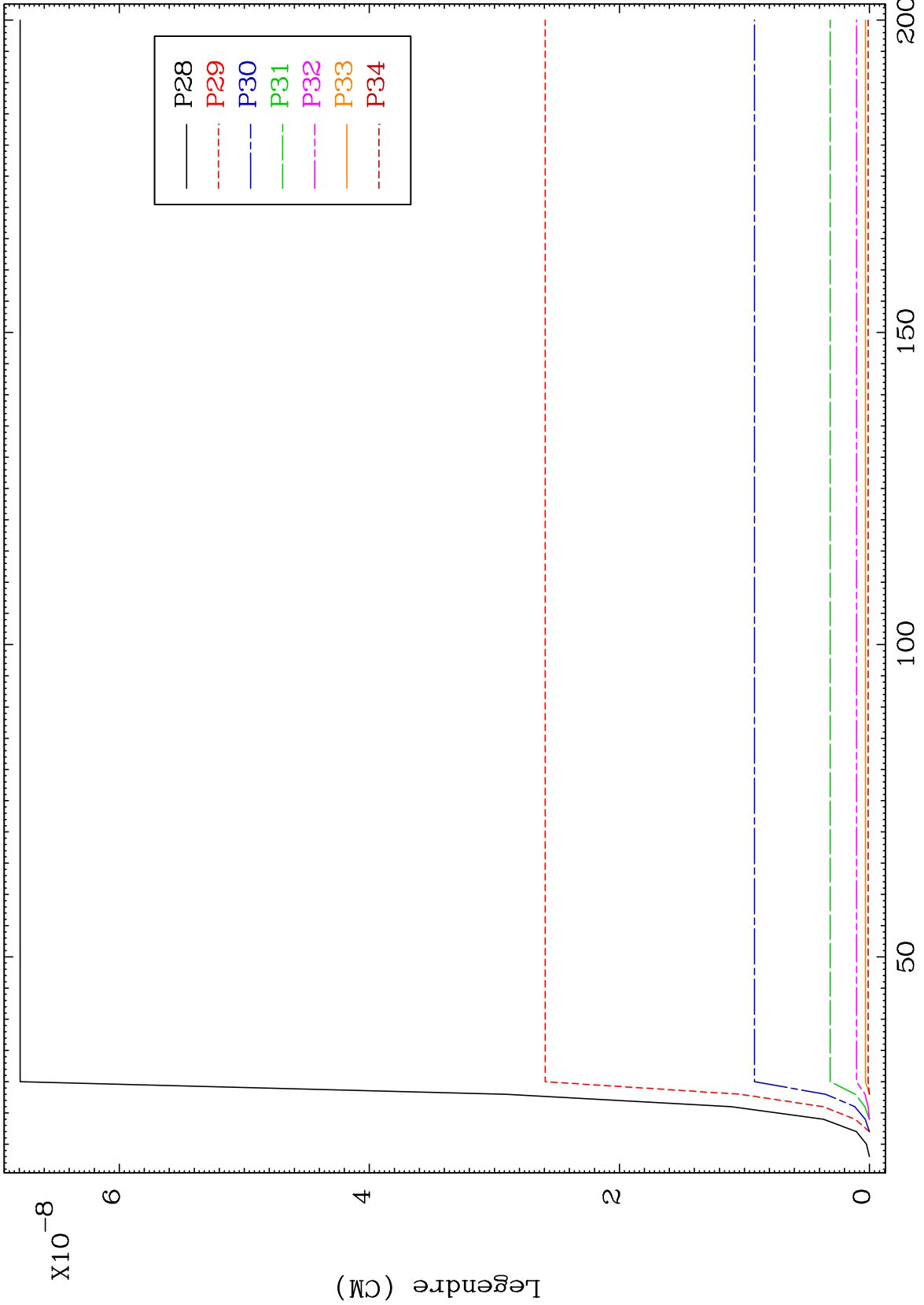


65 Incident Energy (MeV) 40-Zr-87

MAT 4016

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

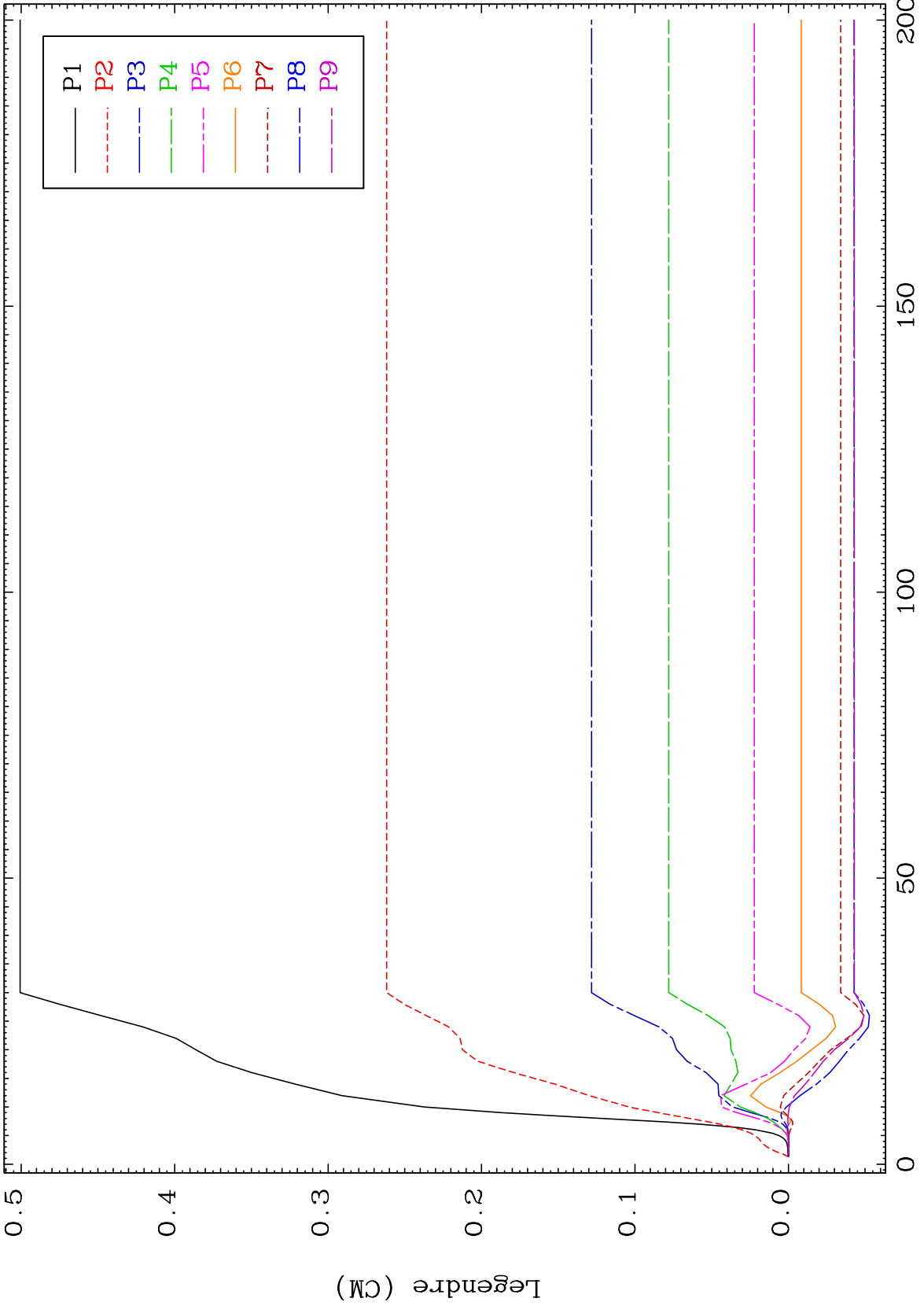
40-Zr-87



66

40-Zr-87

MAT 4016 MT= 63 (n,n') Level Legendre Coefficients 40-Zr-87

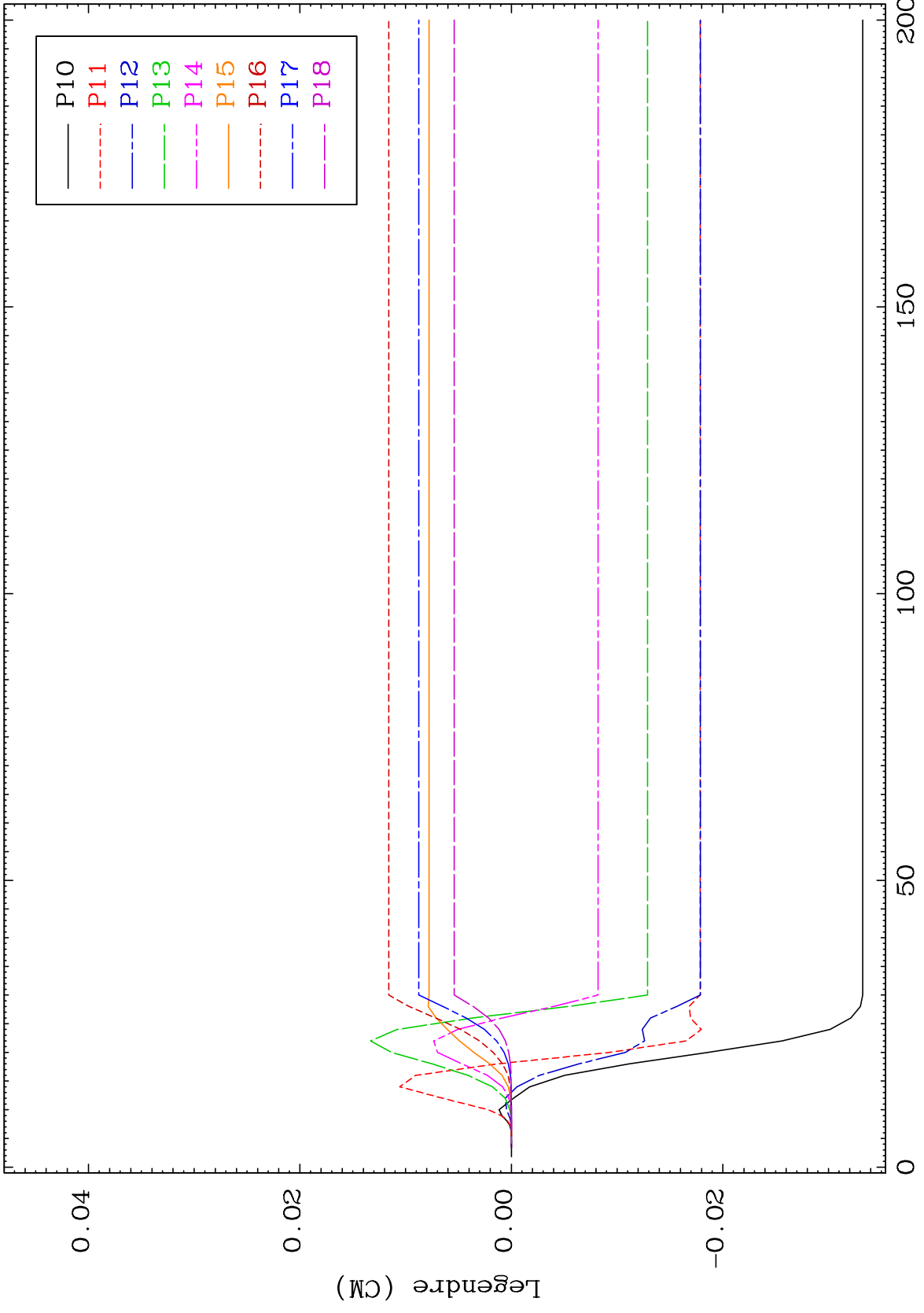


67 40-Zr-87

MAT 4016

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

40-Zr-87



68

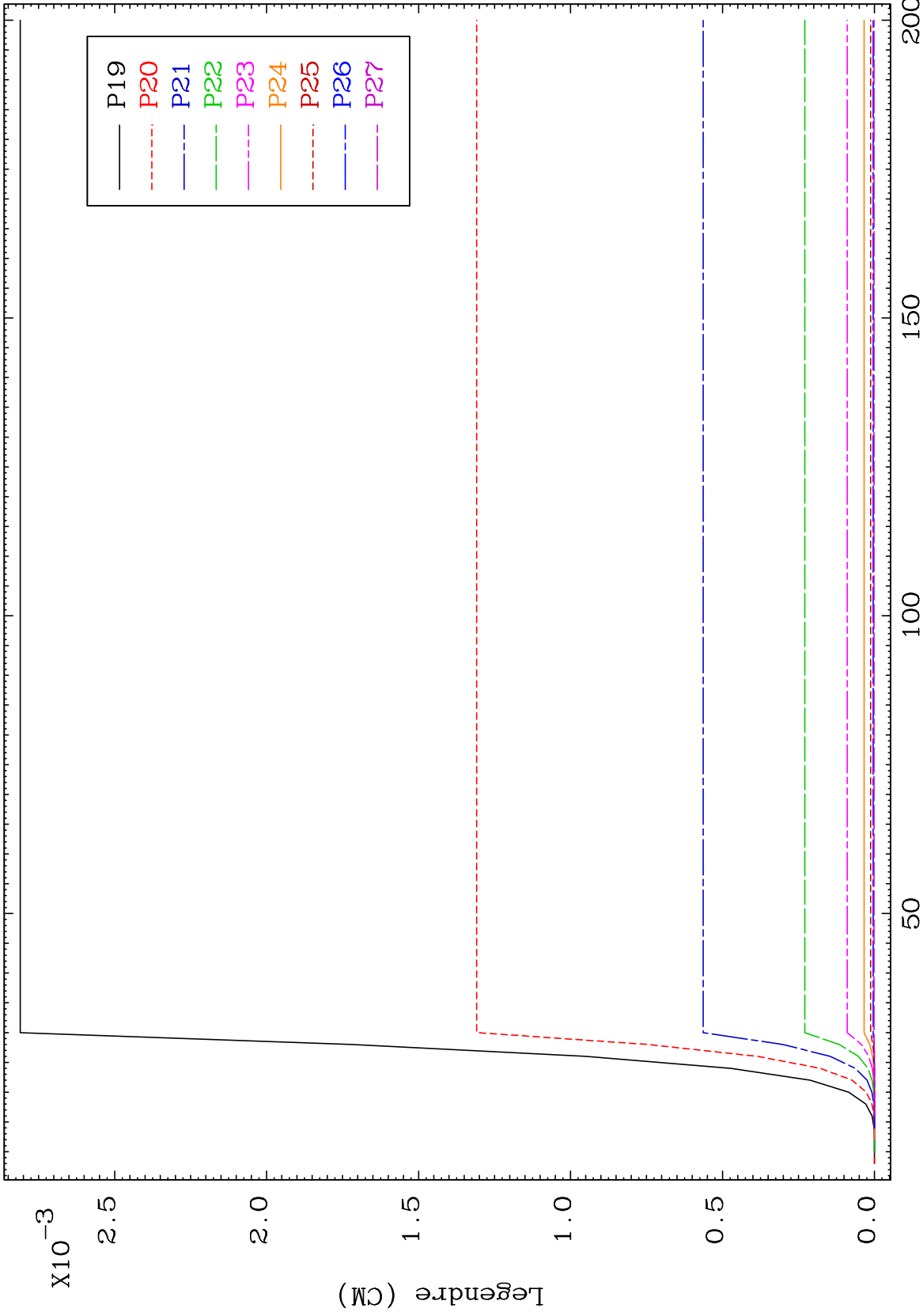
Incident Energy (MeV)

40-Zr-87

MAT 4016

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

40-Zr-87

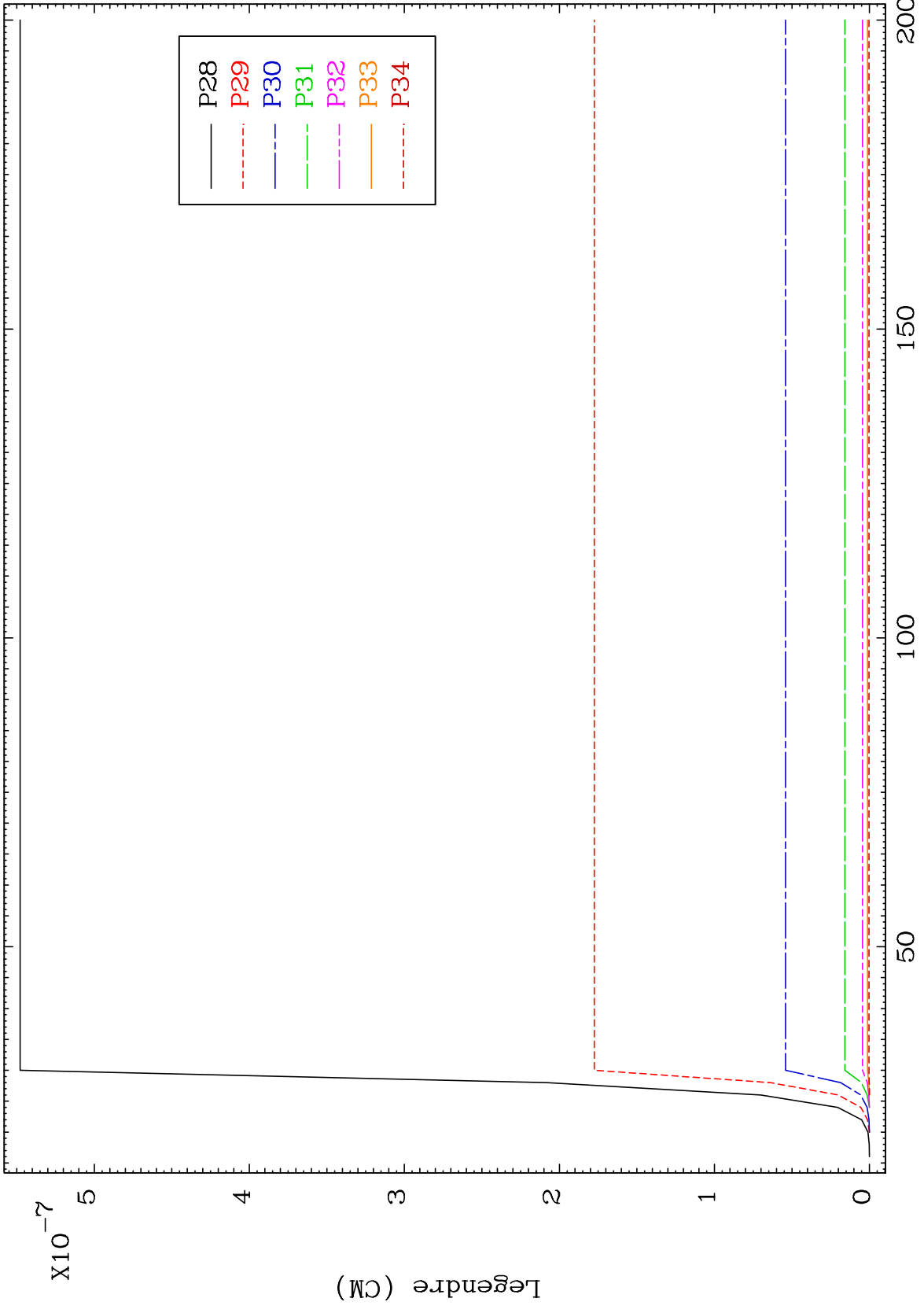


69

Incident Energy (MeV)

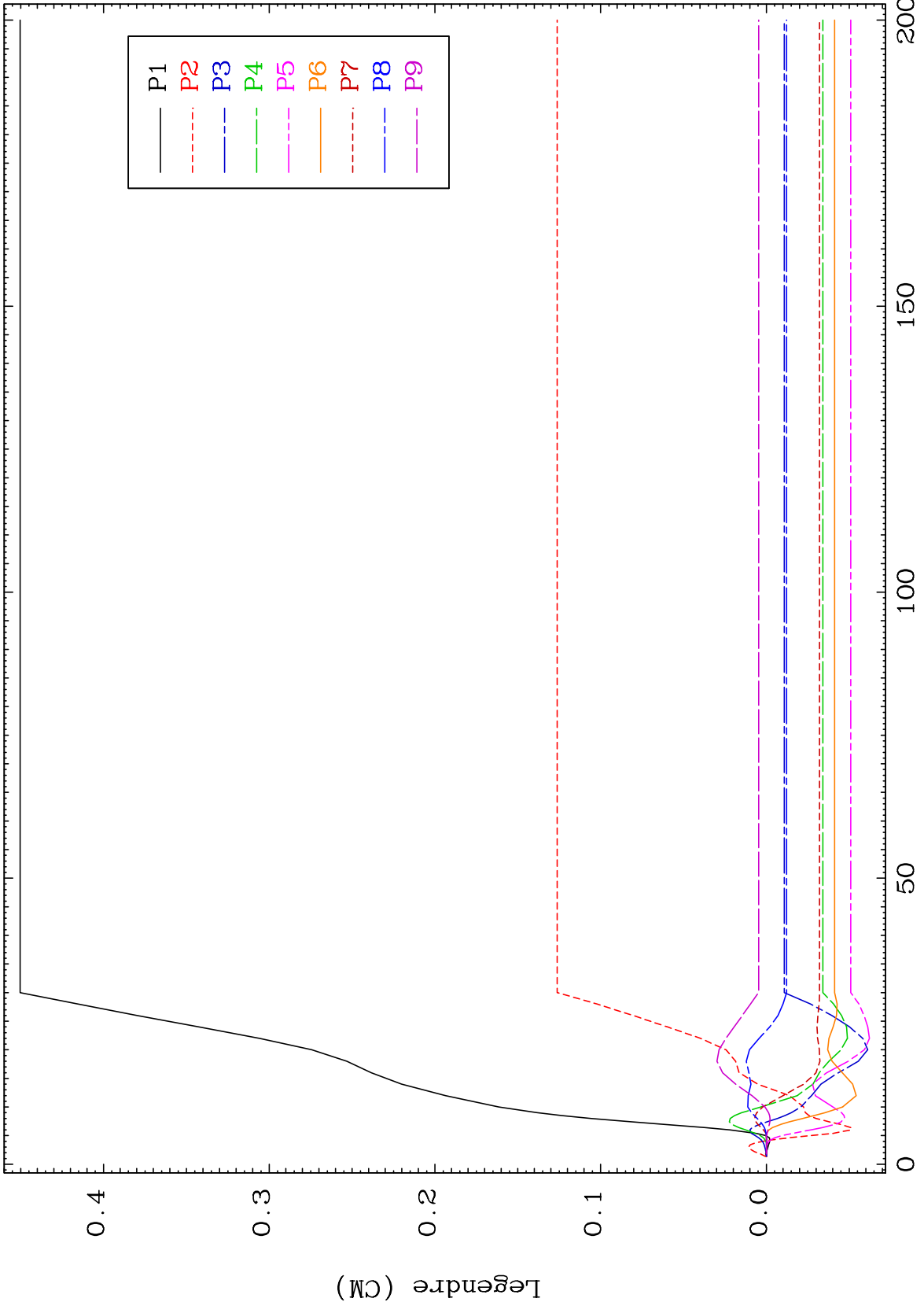
40-Zr-87

MAT 4016 MT= 63 (n,n') Level Legendre Coefficients 40-Zr-87

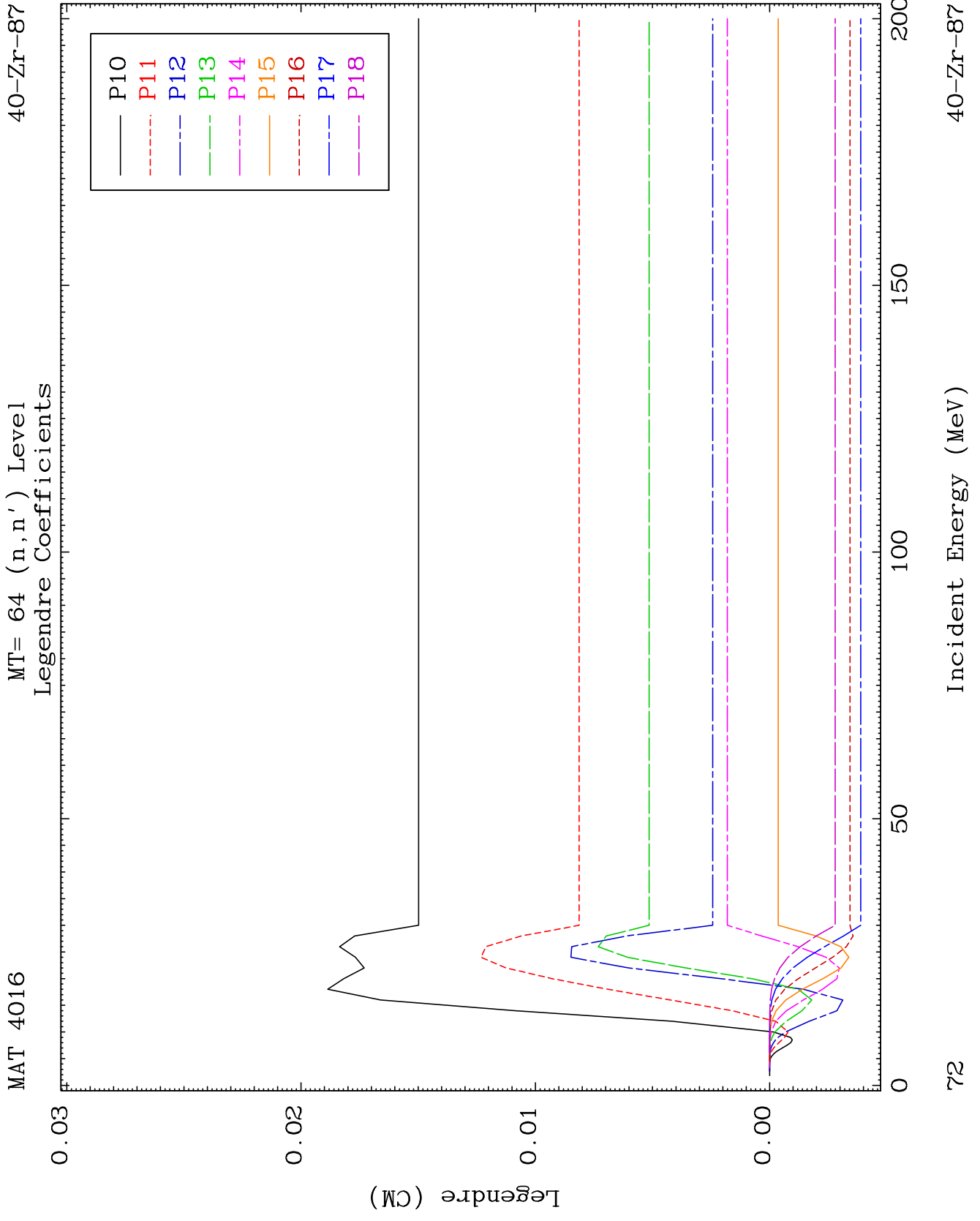


70 50 100 150 200 40-Zr-87

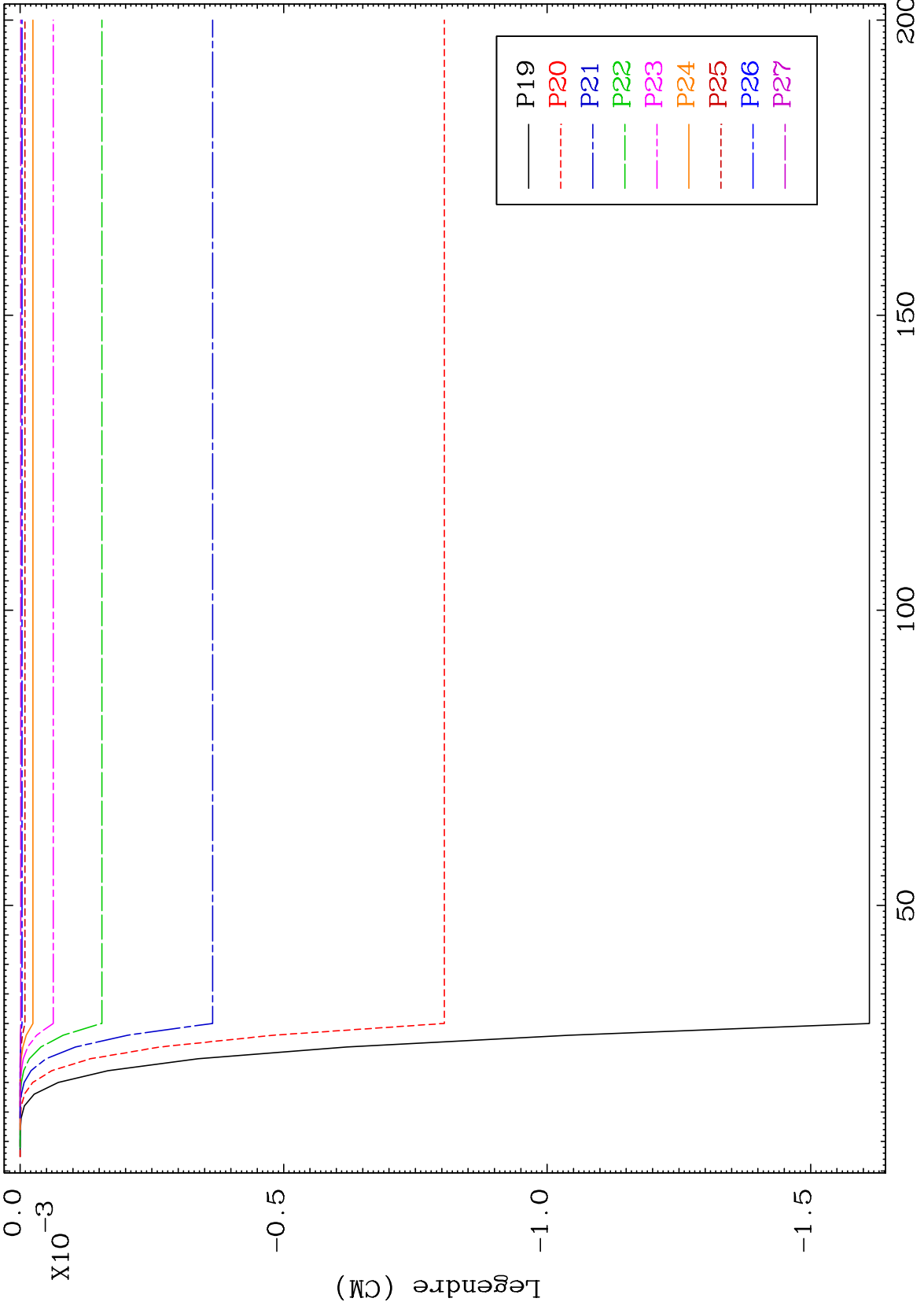
MAT 4016 MT= 64 (n,n') Level Legendre Coefficients 40-Zr-87

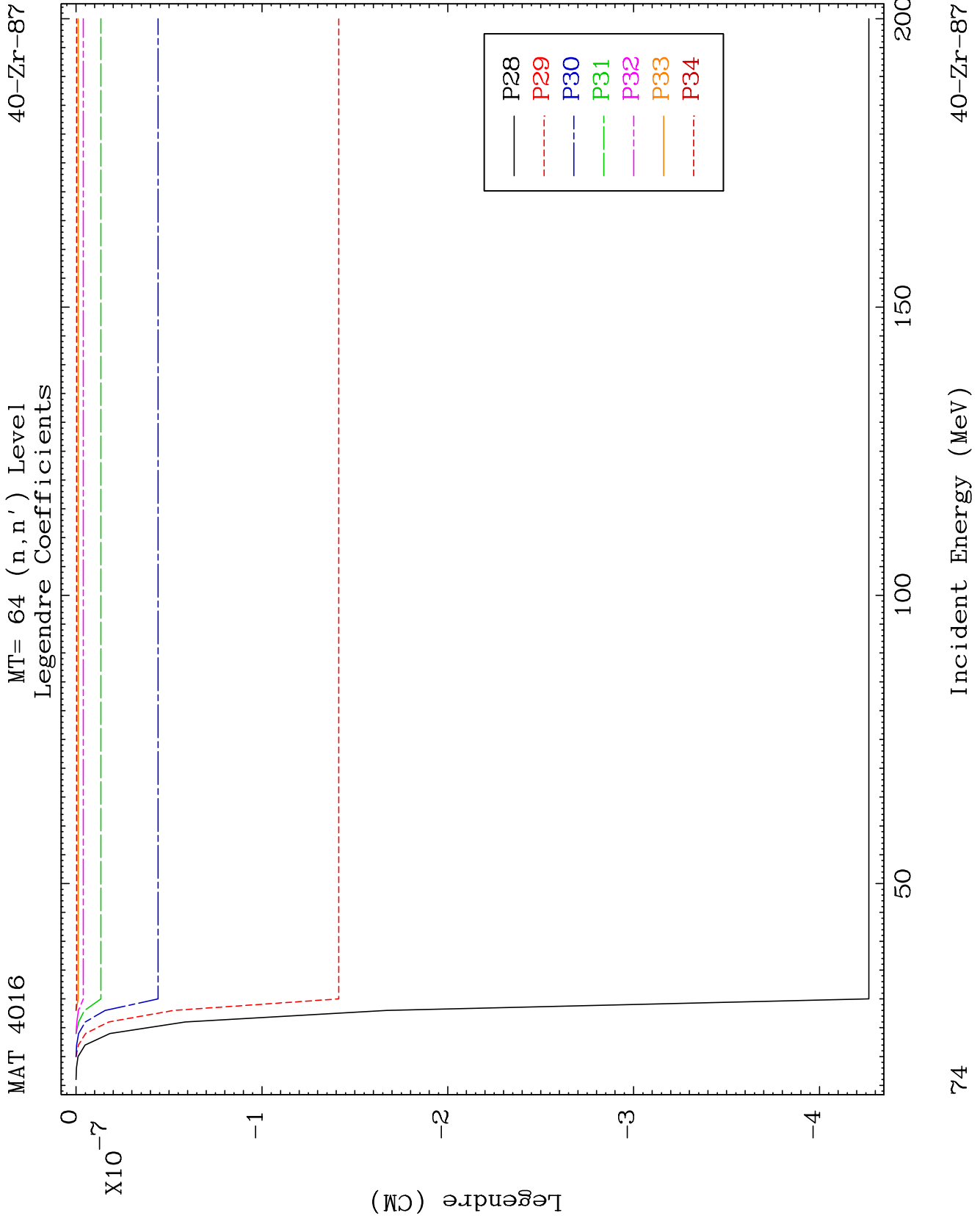


71 40-Zr-87

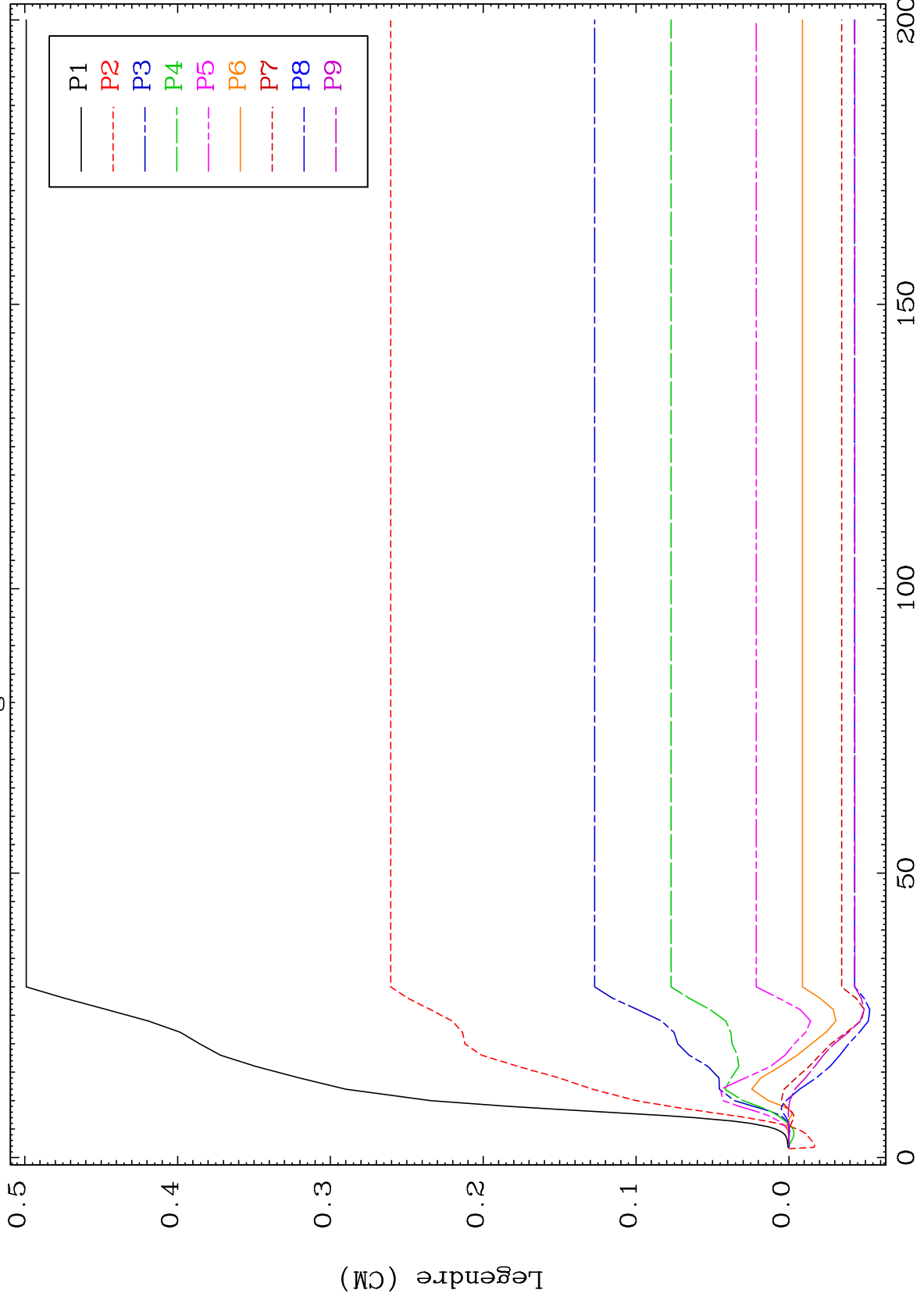


MAT 4016 MT= 64 (n,n') Level Legendre Coefficients 40-Zr-87



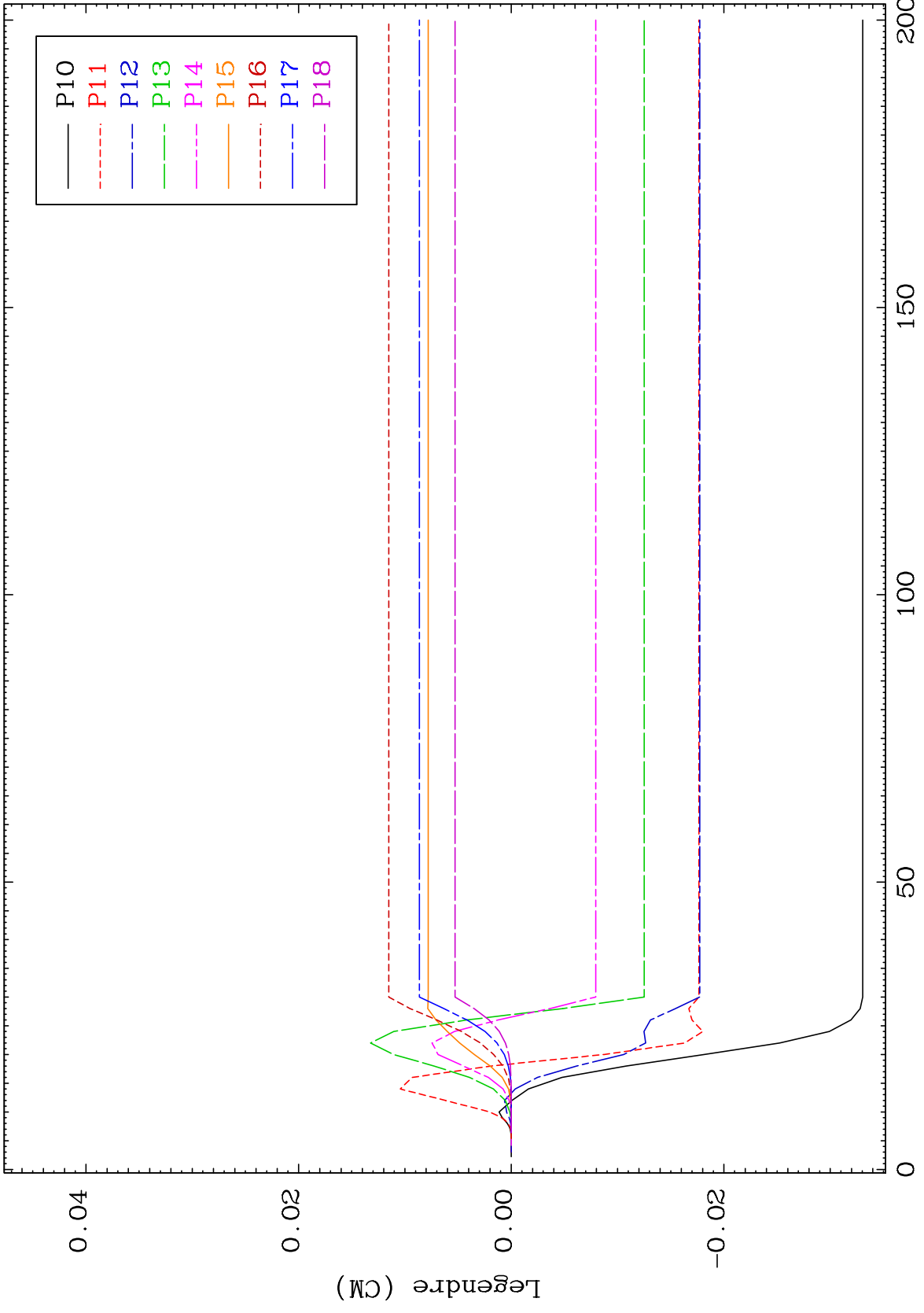


MAT 4016 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-87



75 100 150 200 40-Zr-87

MAT 4016 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-87

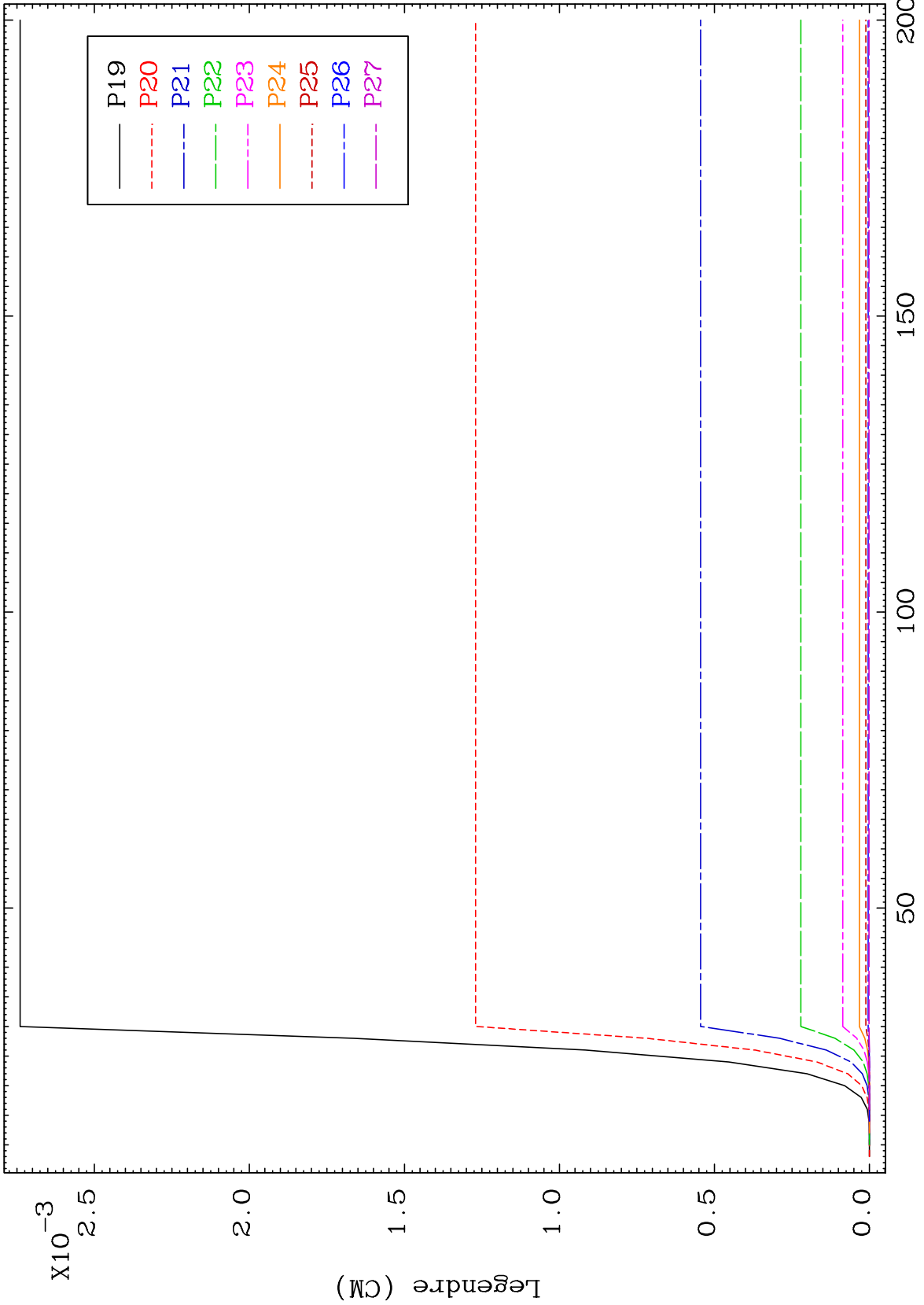


76 Incident Energy (MeV) 40-Zr-87

MAT 4016

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

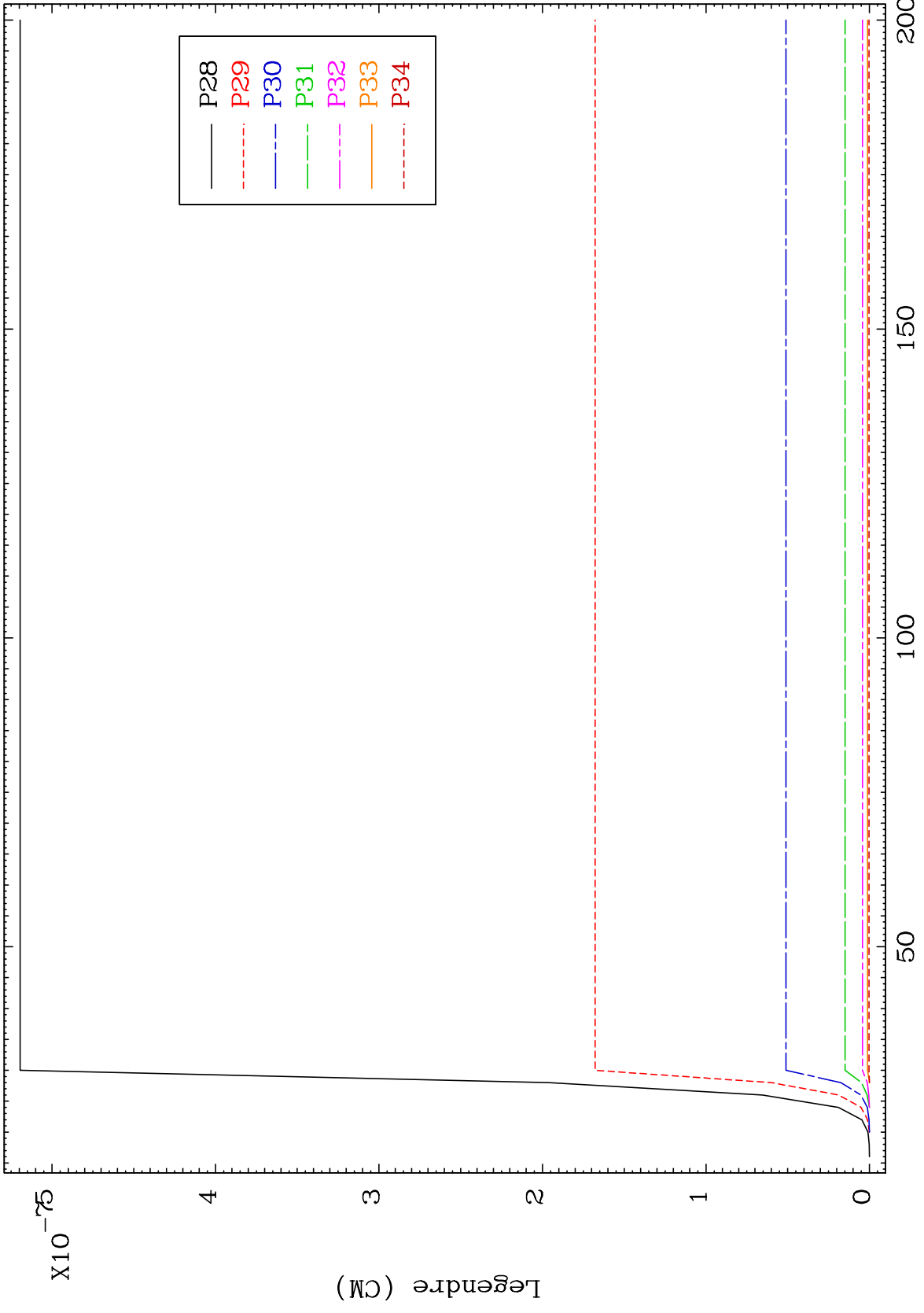
40-Zr-87



77

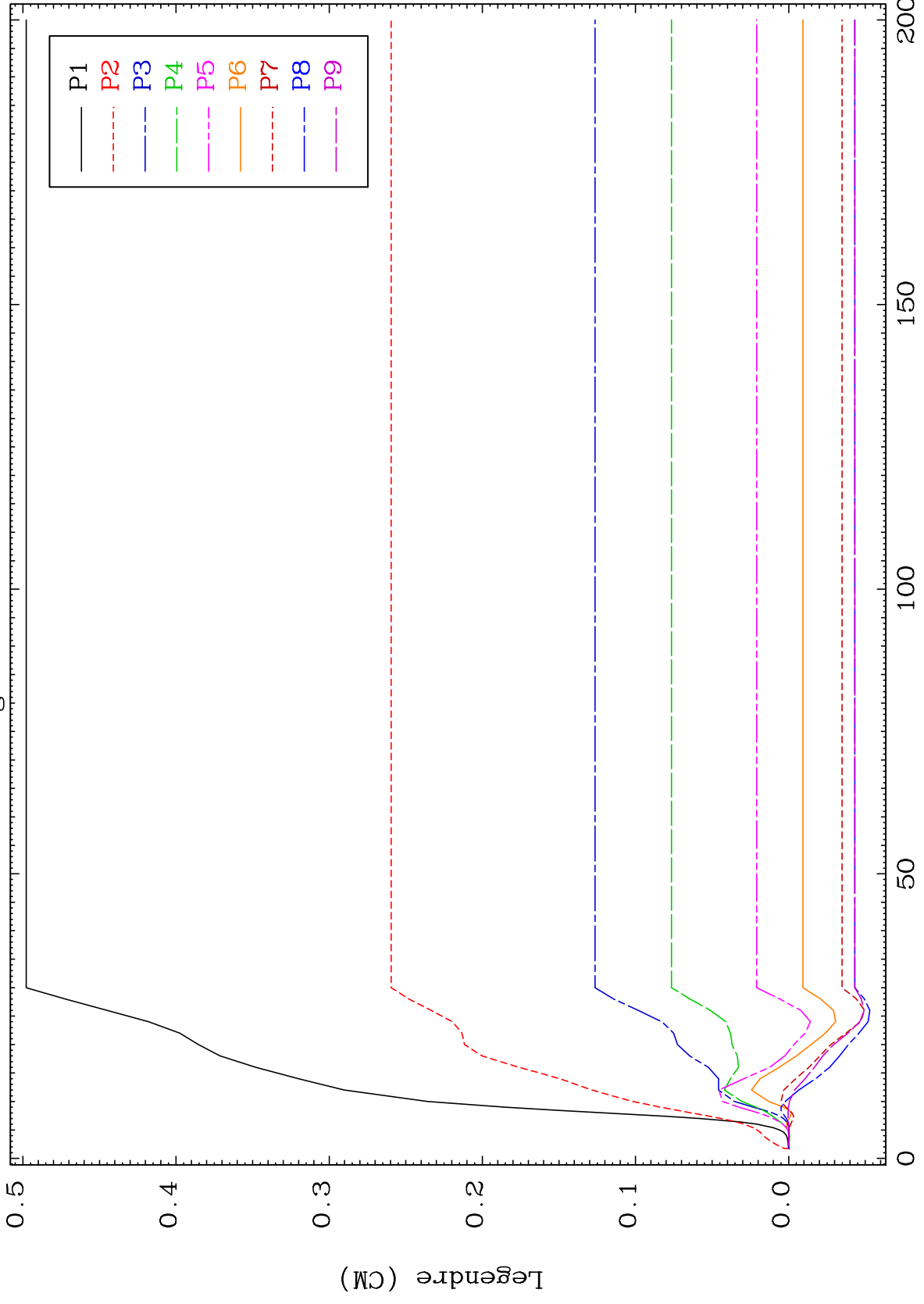
40-Zr-87

MAT 4016 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-87



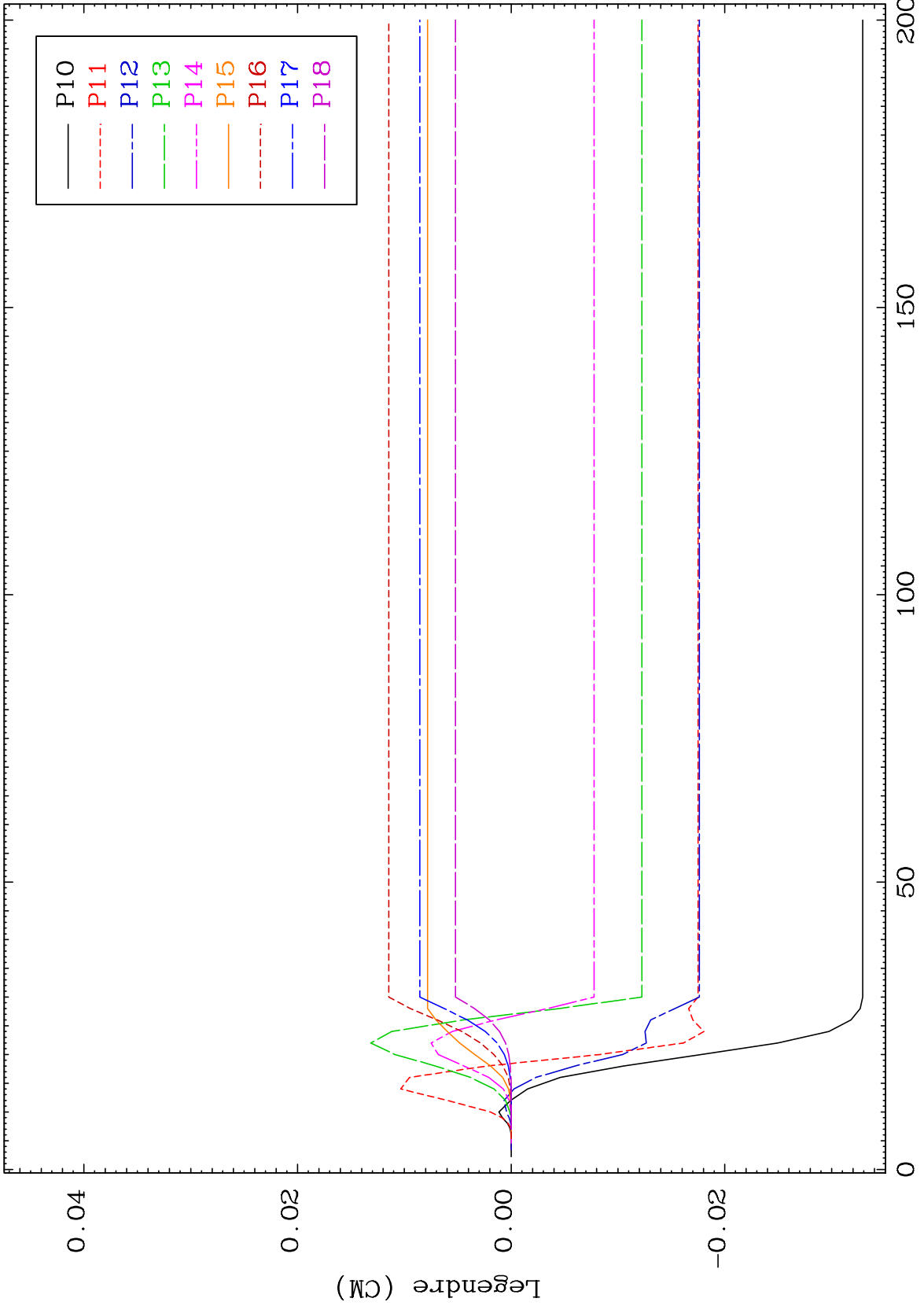
78 Incident Energy (MeV) 40-Zr-87

MAT 4016 MT= 66 (n,n') Level Legendre Coefficients 40-Zr-87

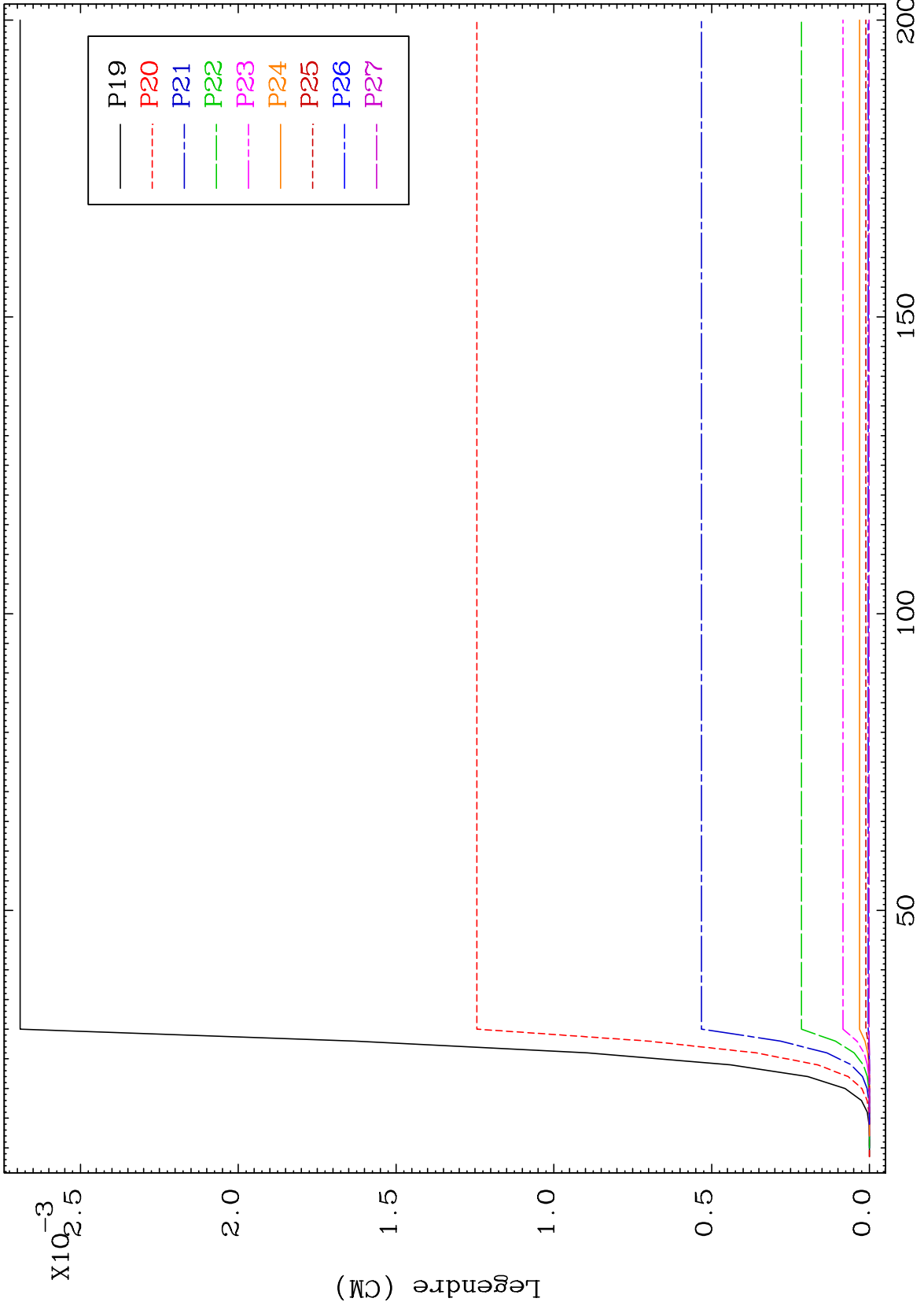


79 Incident Energy (MeV) 40-Zr-87

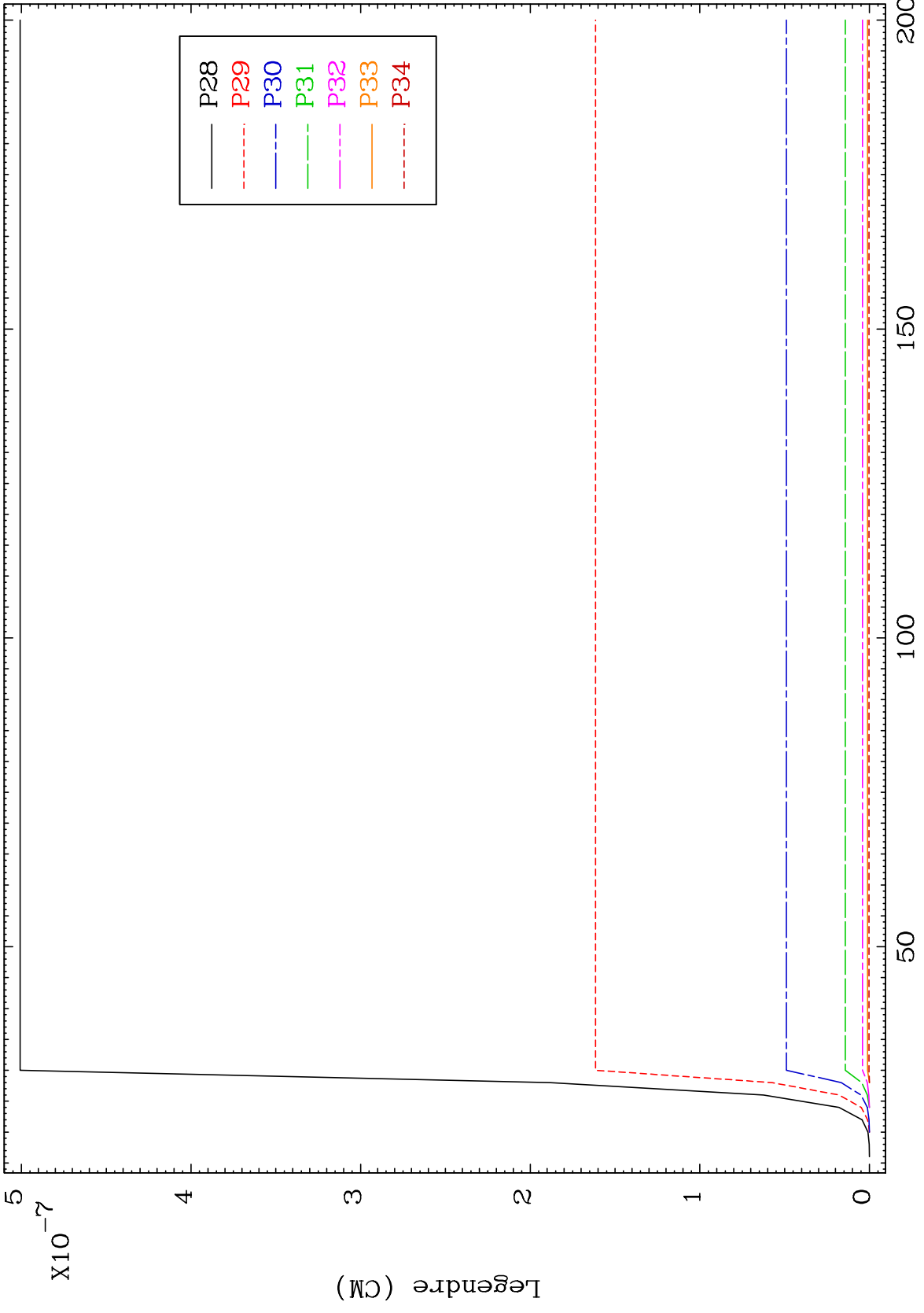
MAT 4016 MT= 66 (n,n') Level Legendre Coefficients 40-Zr-87



80 Incident Energy (MeV) 40-Zr-87



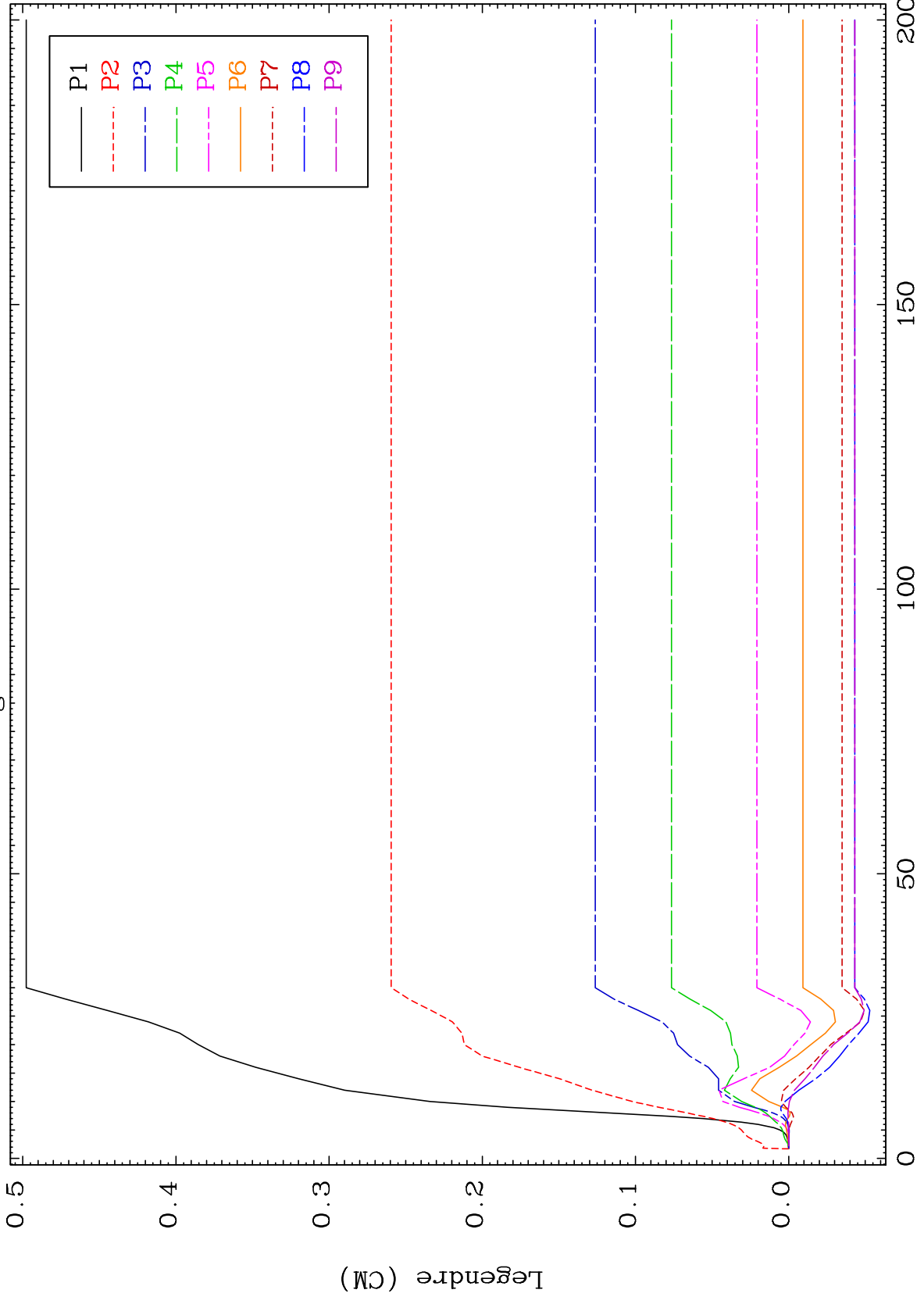
MAT 4016 MT= 66 (n,n') Level Legendre Coefficients 40-Zr-87



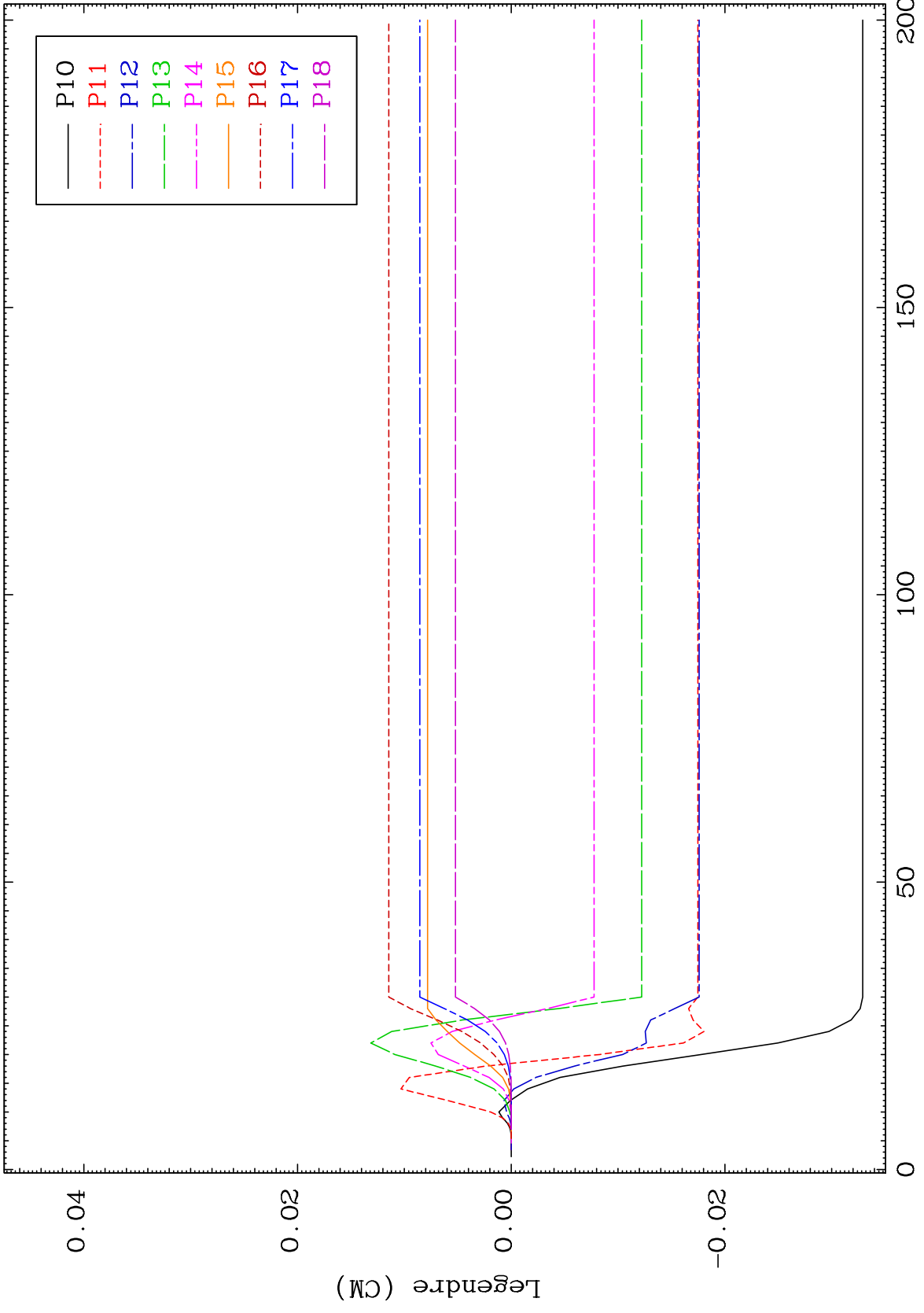
82

40-Zr-87

MAT 4016 MT= 67 (n,n') Level Legendre Coefficients 40-Zr-87

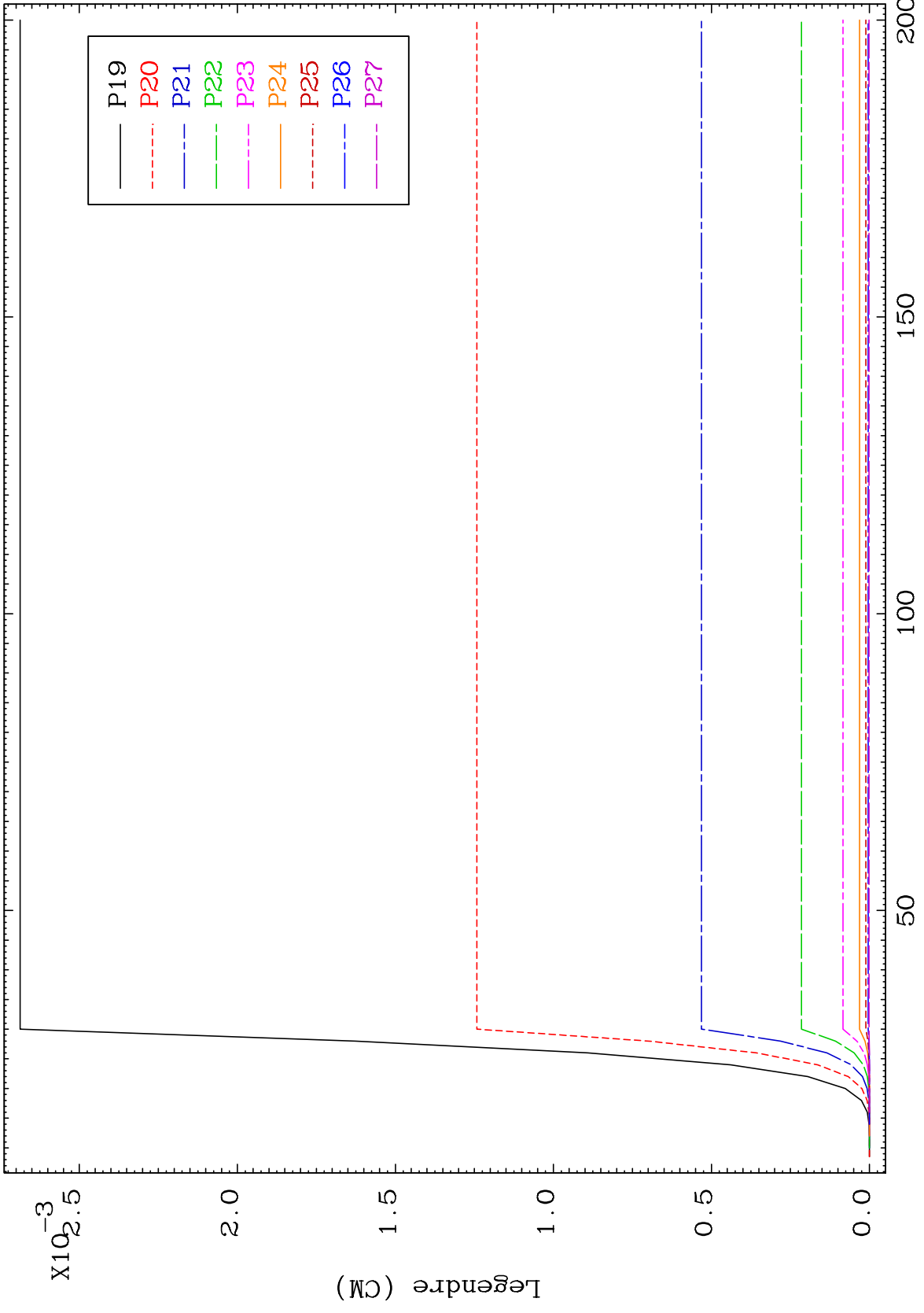


MAT 4016 MT= 67 (n,n') Level Legendre Coefficients 40-Zr-87



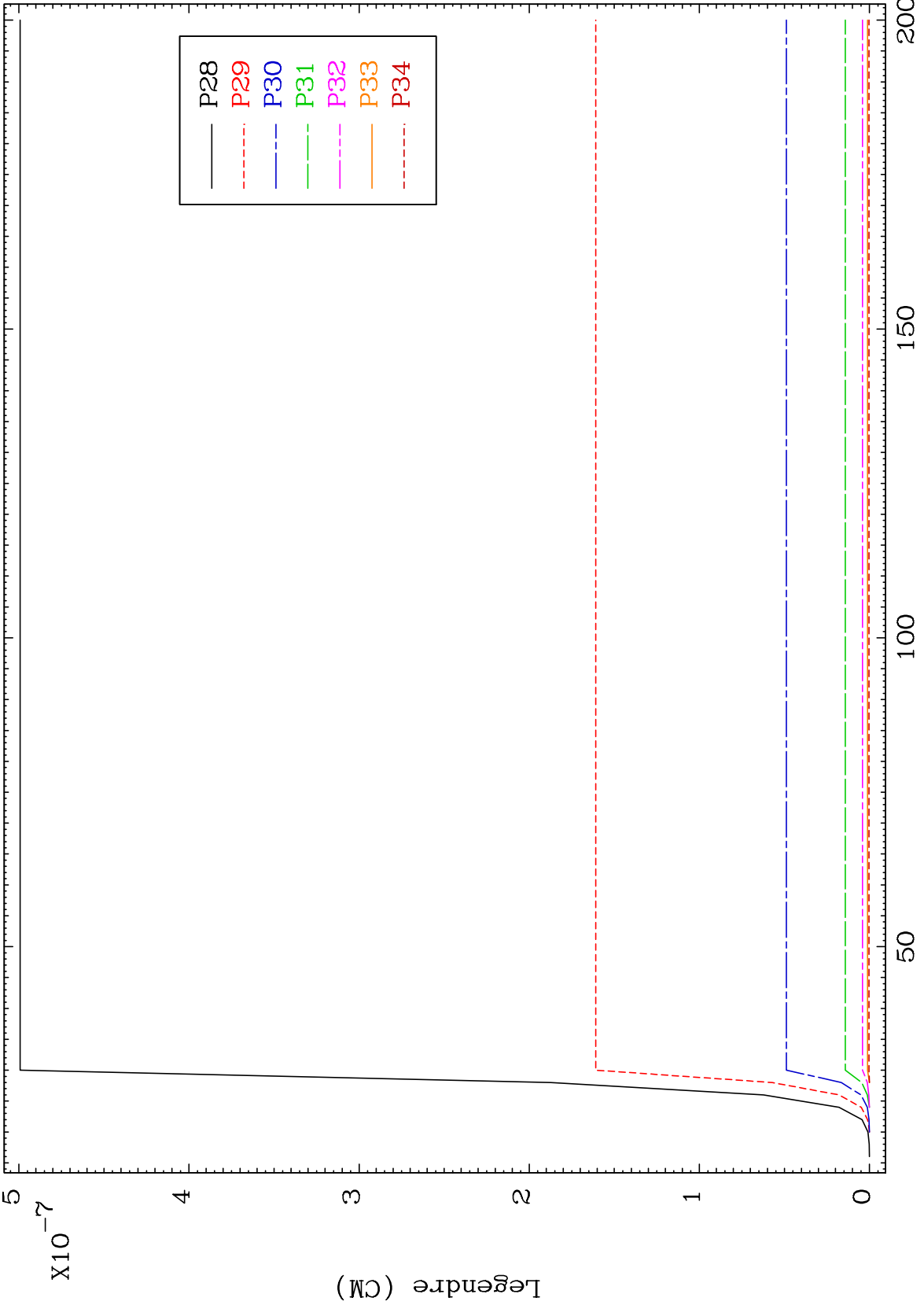
84 40-Zr-87

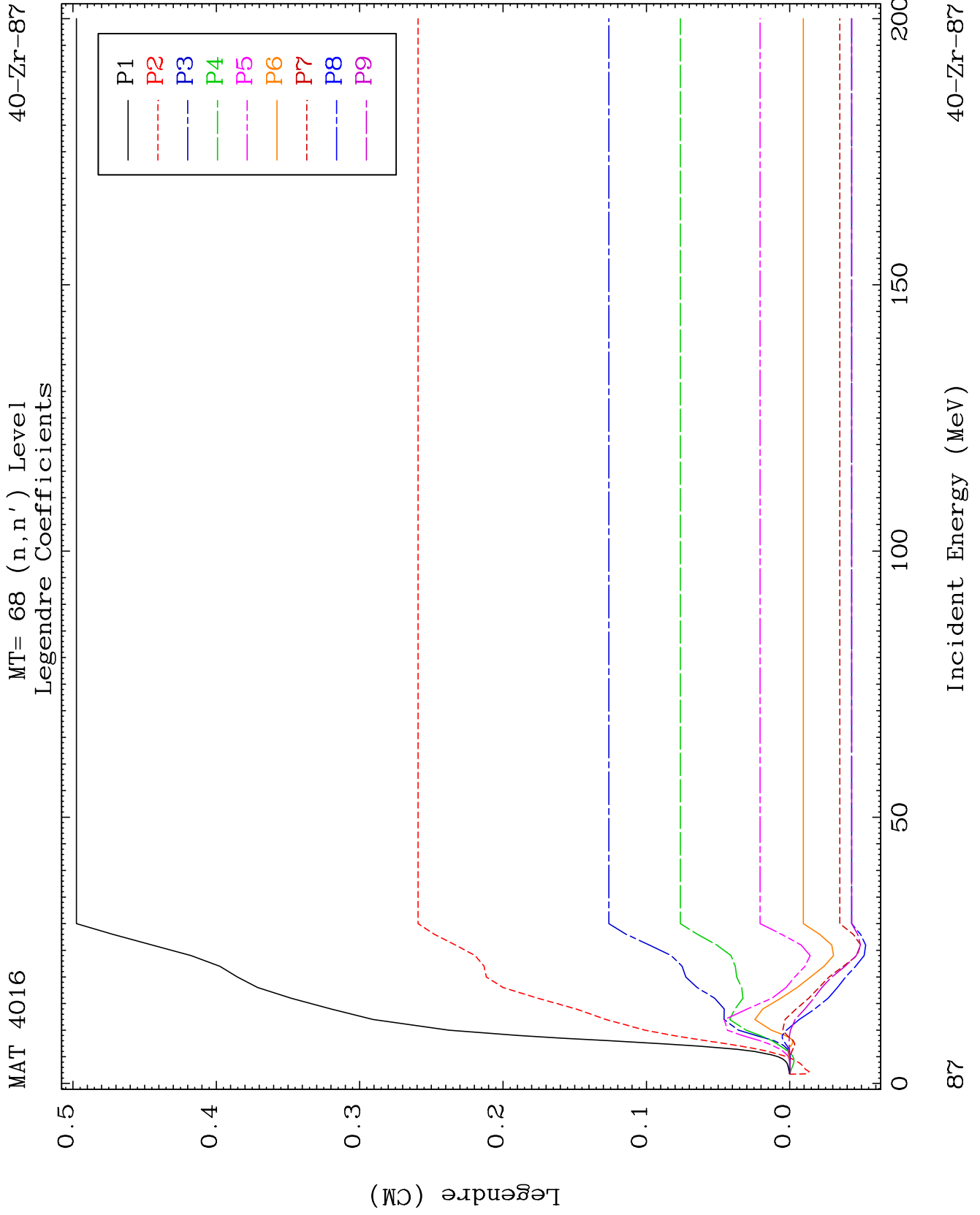
MAT 4016 MT= 67 (n,n') Level Legendre Coefficients 40-Zr-87



85 Incident Energy (MeV) 40-Zr-87

MAT 4016 MT= 67 (n,n') Level Legendre Coefficients 40-Zr-87

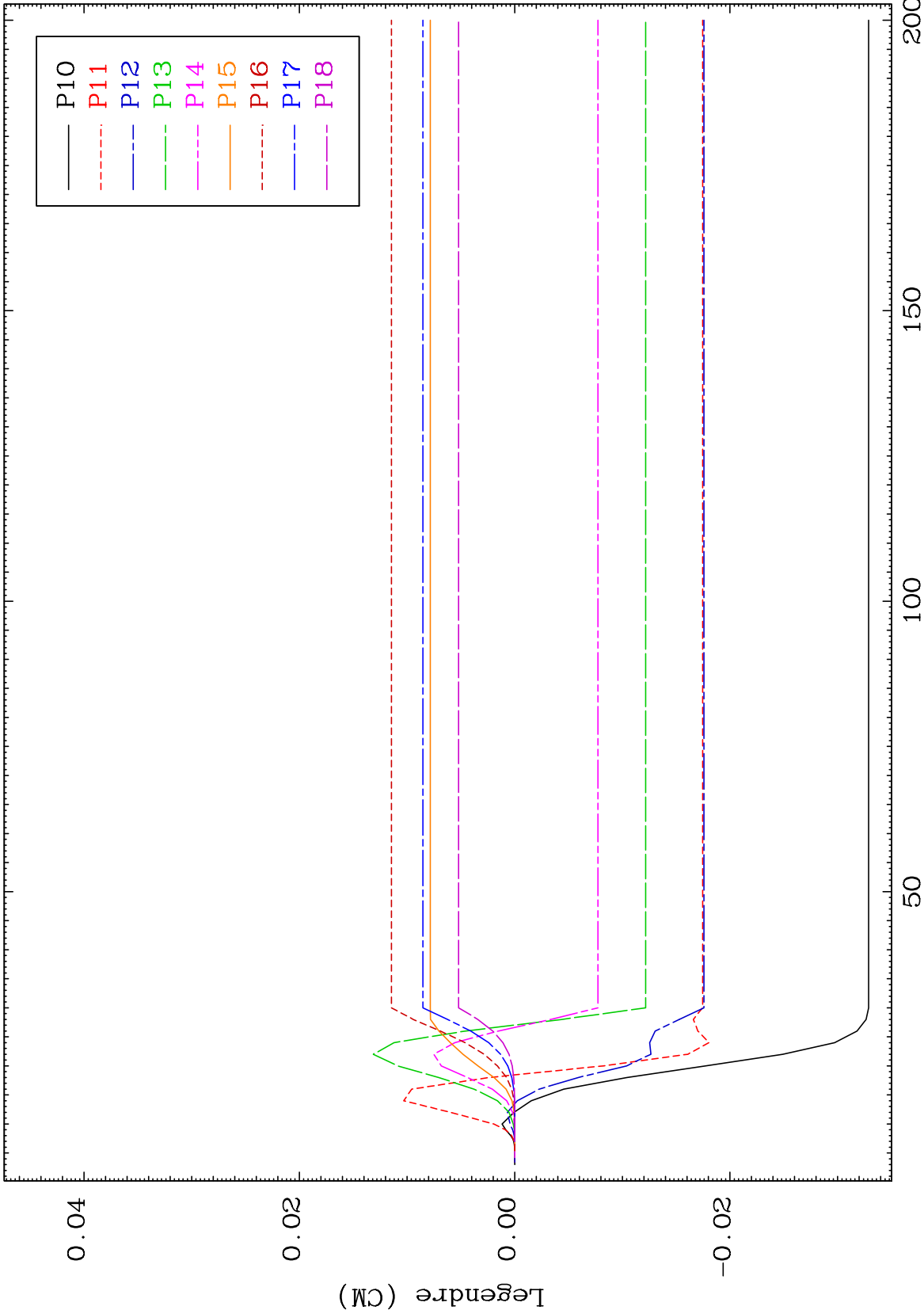




MAT 4016

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

40-Zr-87

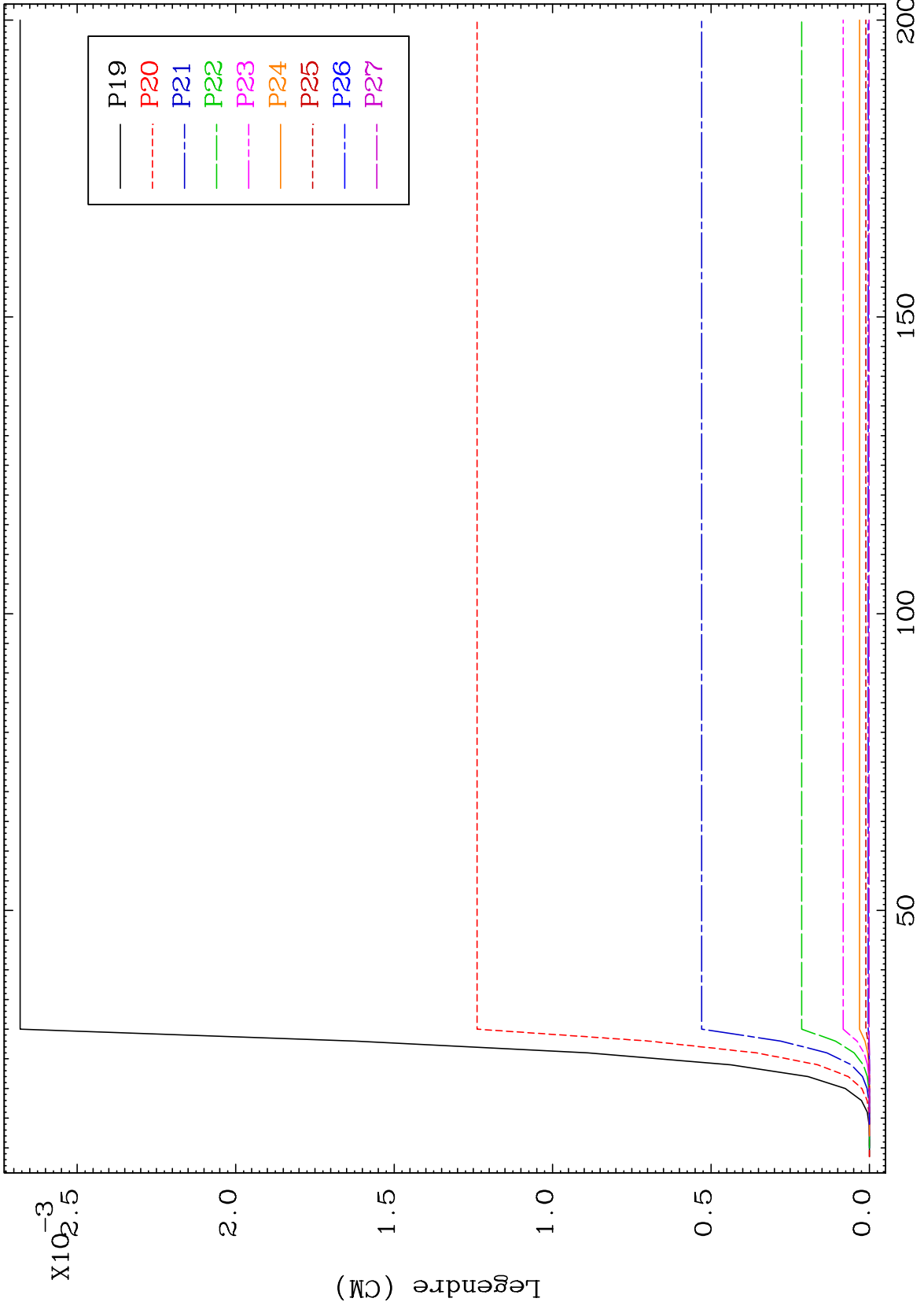


88

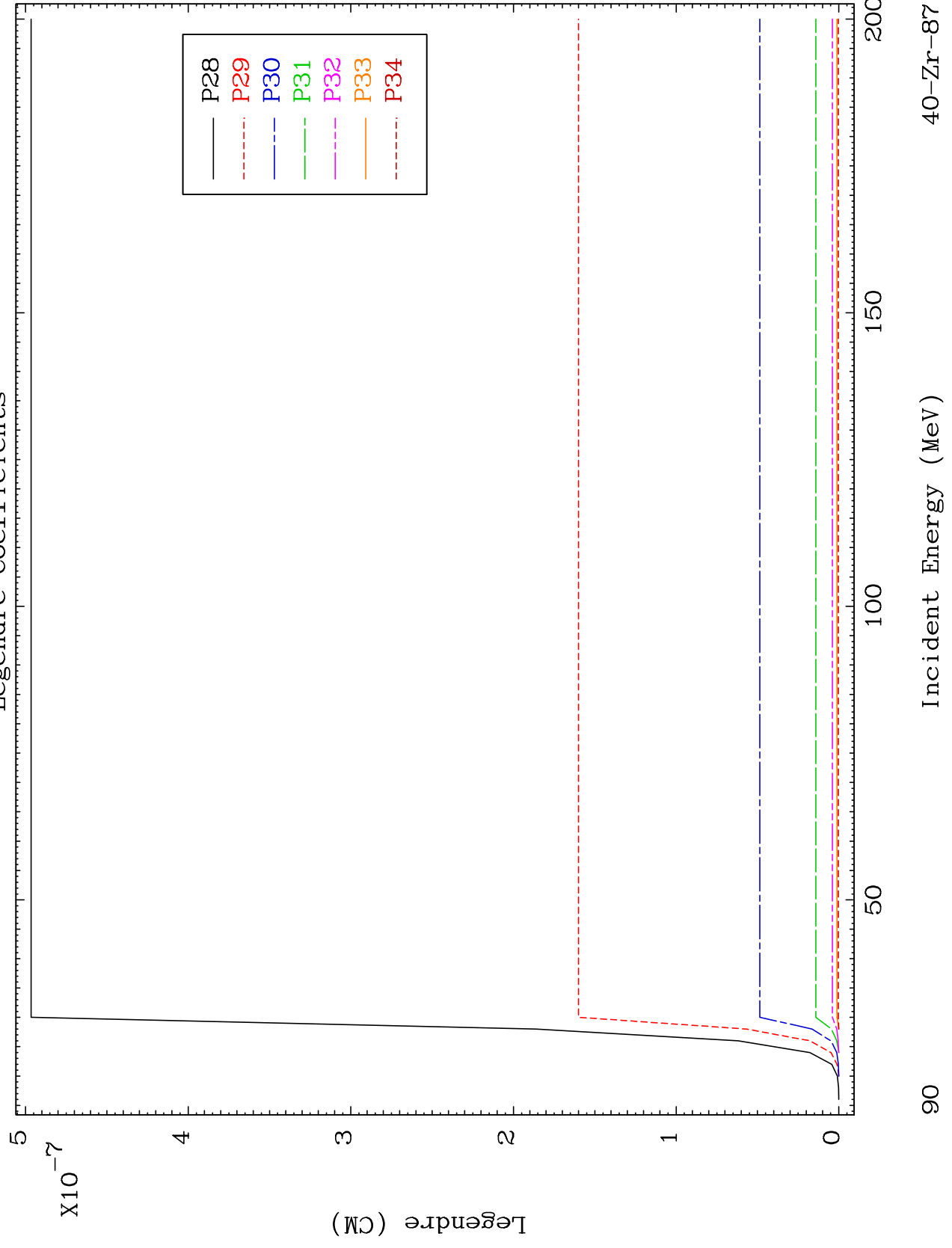
Incident Energy (MeV)

40-Zr-87

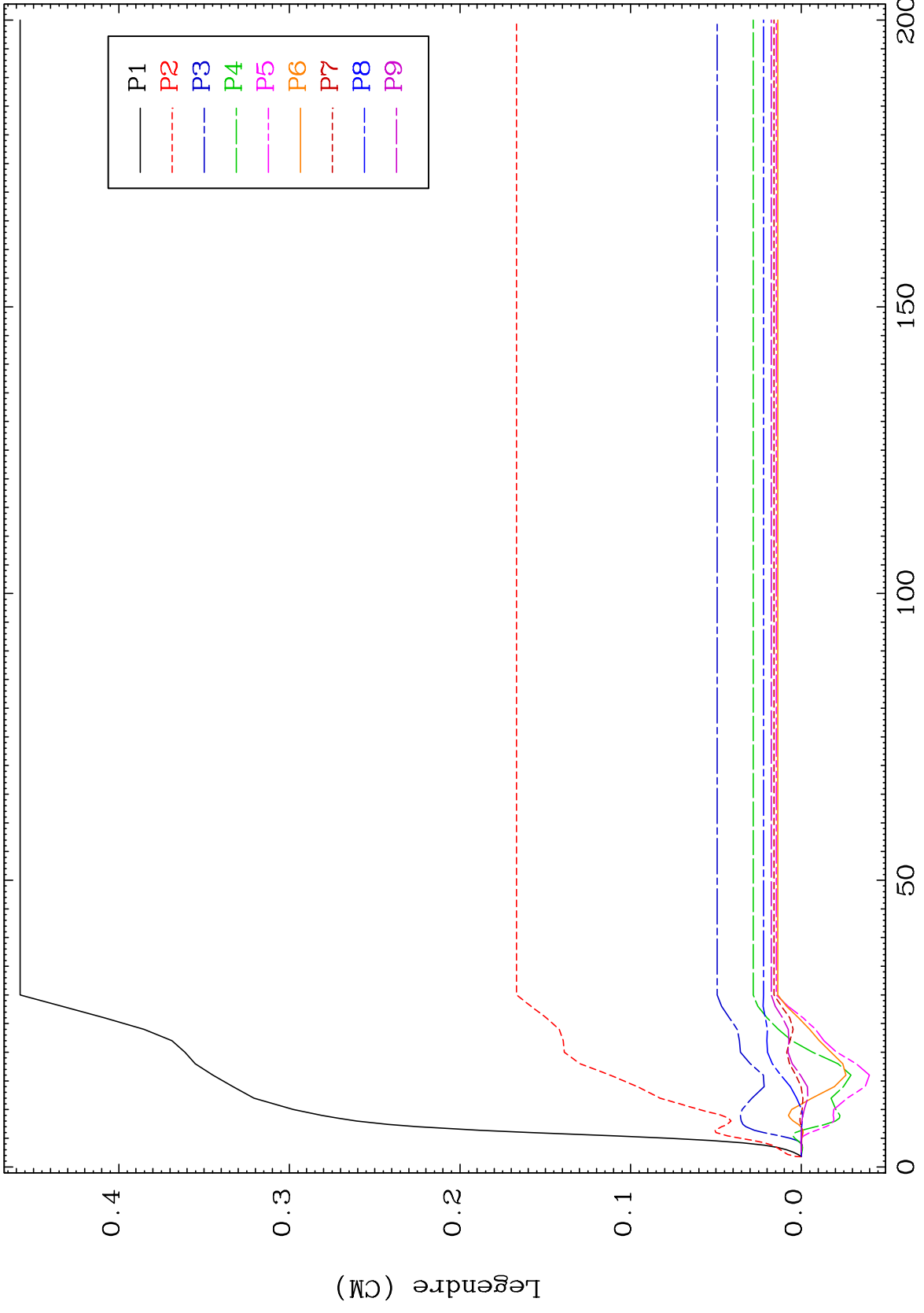
MAT 4016 MT= 68 (n,n') Level Legendre Coefficients 40-Zr-87



MAT 4016 MT= 68 (n,n') Level Legendre Coefficients 40-Zr-87



MAT 4016 MT= 69 (n,n') Level Legendre Coefficients 40-Zr-87



91 Incident Energy (MeV) 40-Zr-87

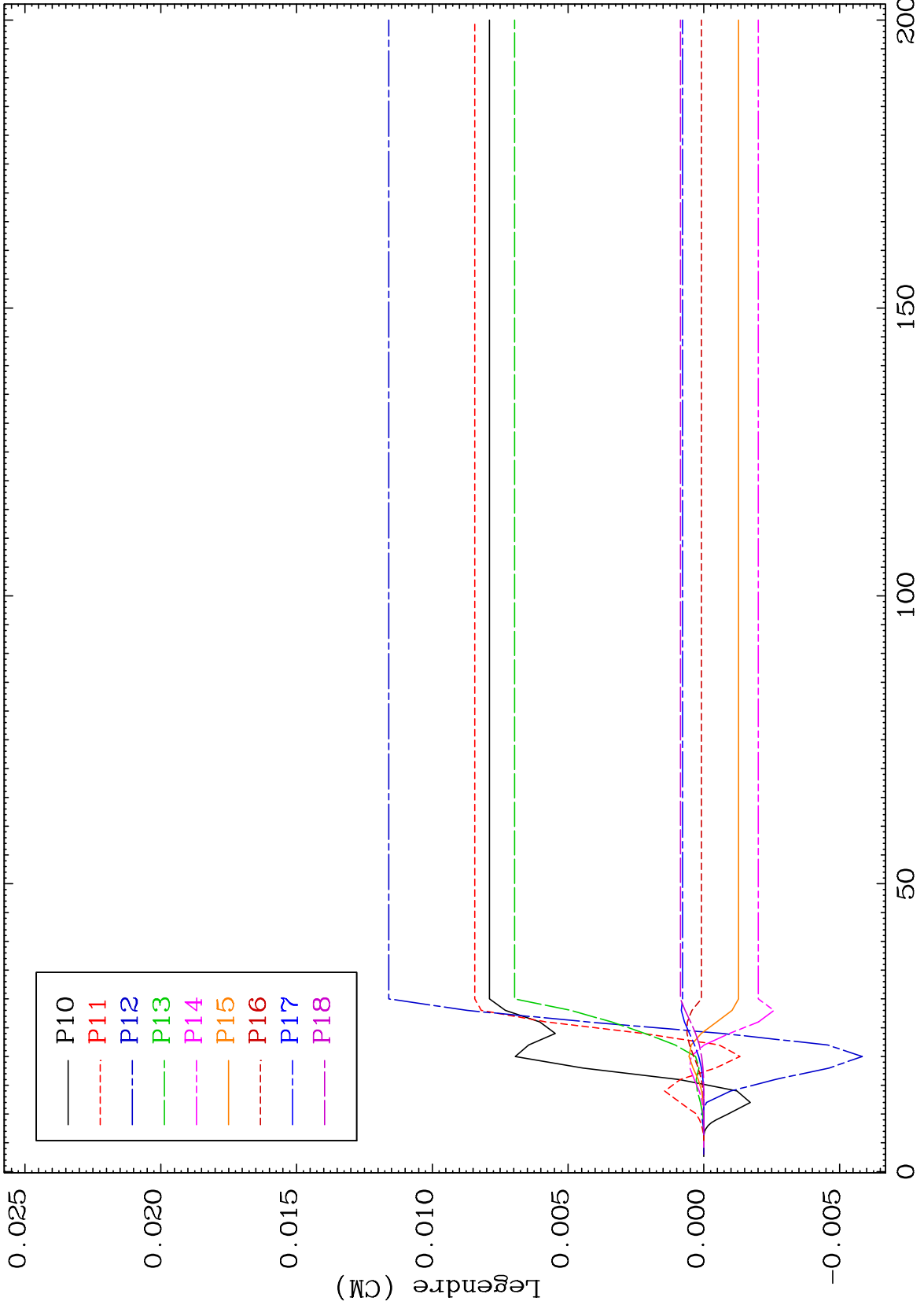
MAT 4016 MT= 69 (n,n') Level Legendre Coefficients

40-Zr-87

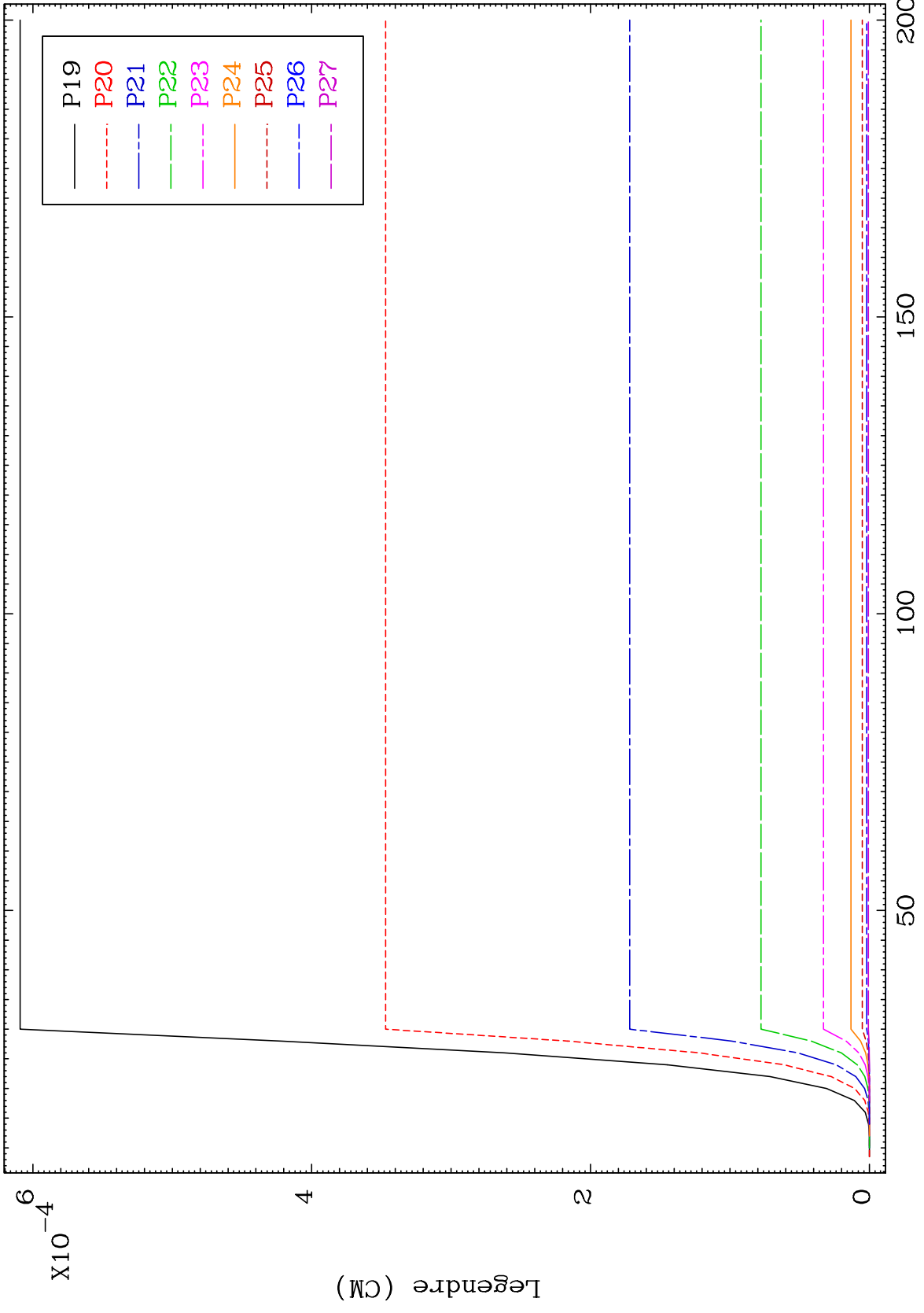
40-Zr-87

Incident Energy (MeV)

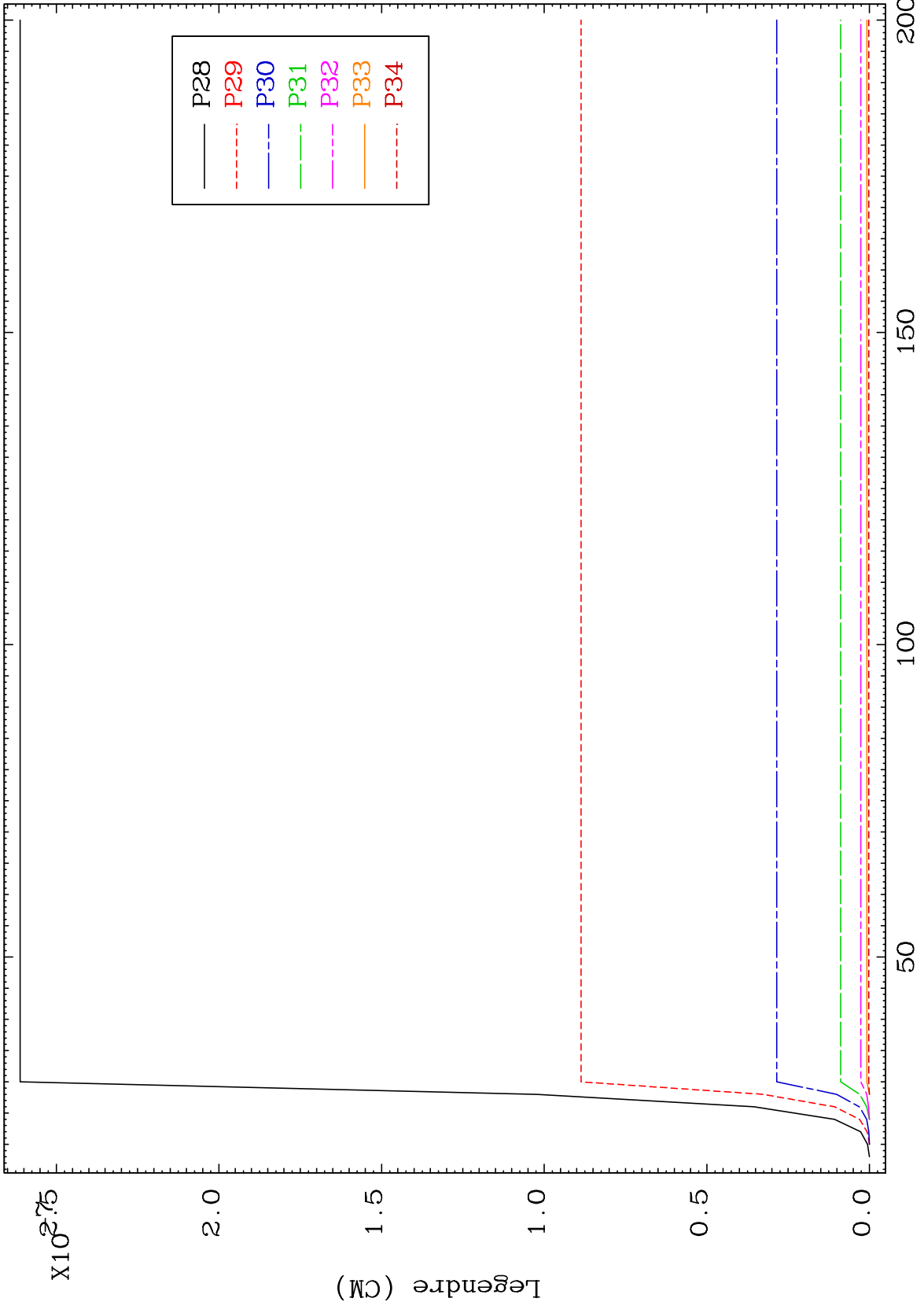
92



MAT 4016 MT= 69 (n,n') Level Legendre Coefficients 40-Zr-87

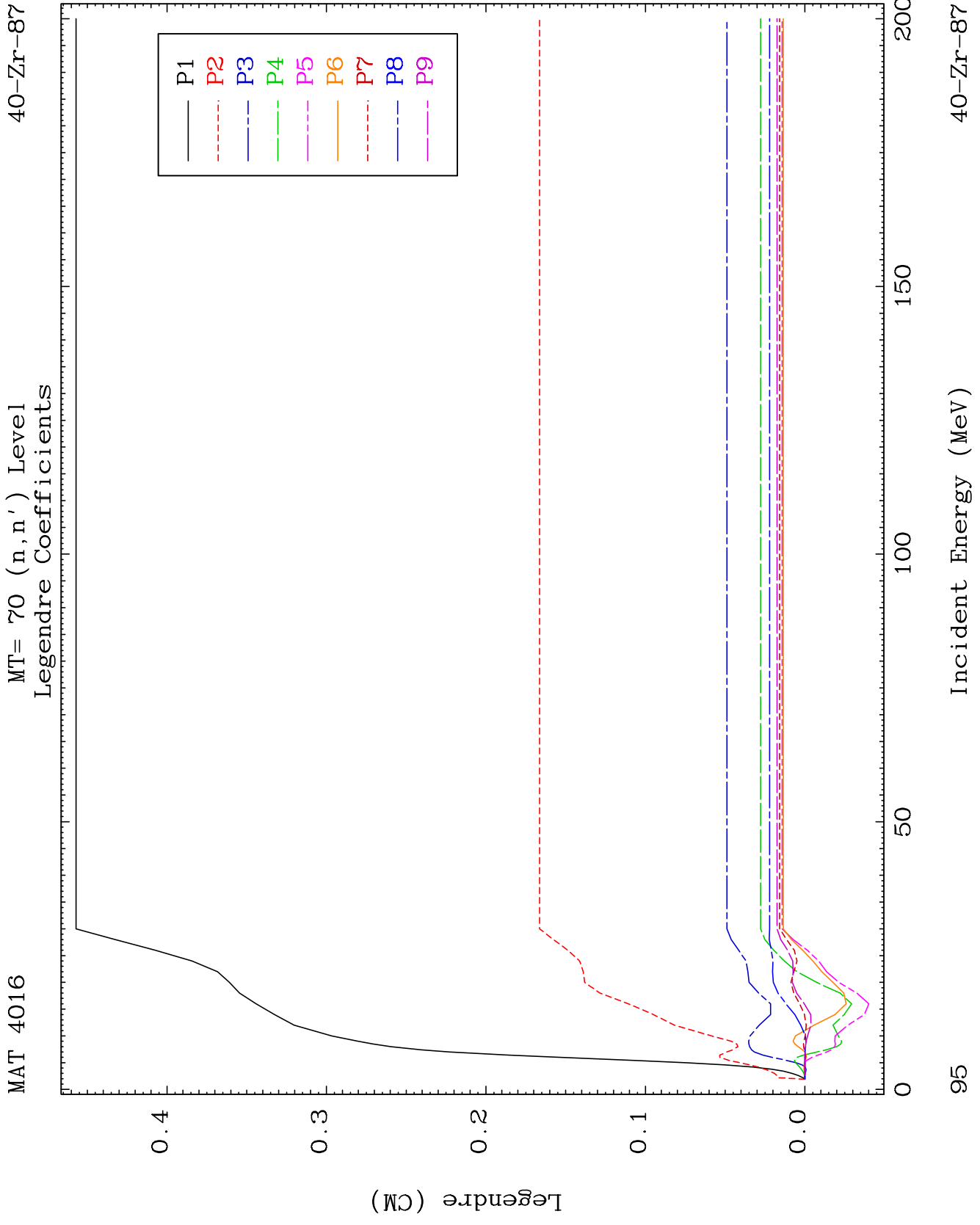


MAT 4016 MT= 69 (n, n') Level Legendre Coefficients 40-Zr-87



40-Zr-87

94



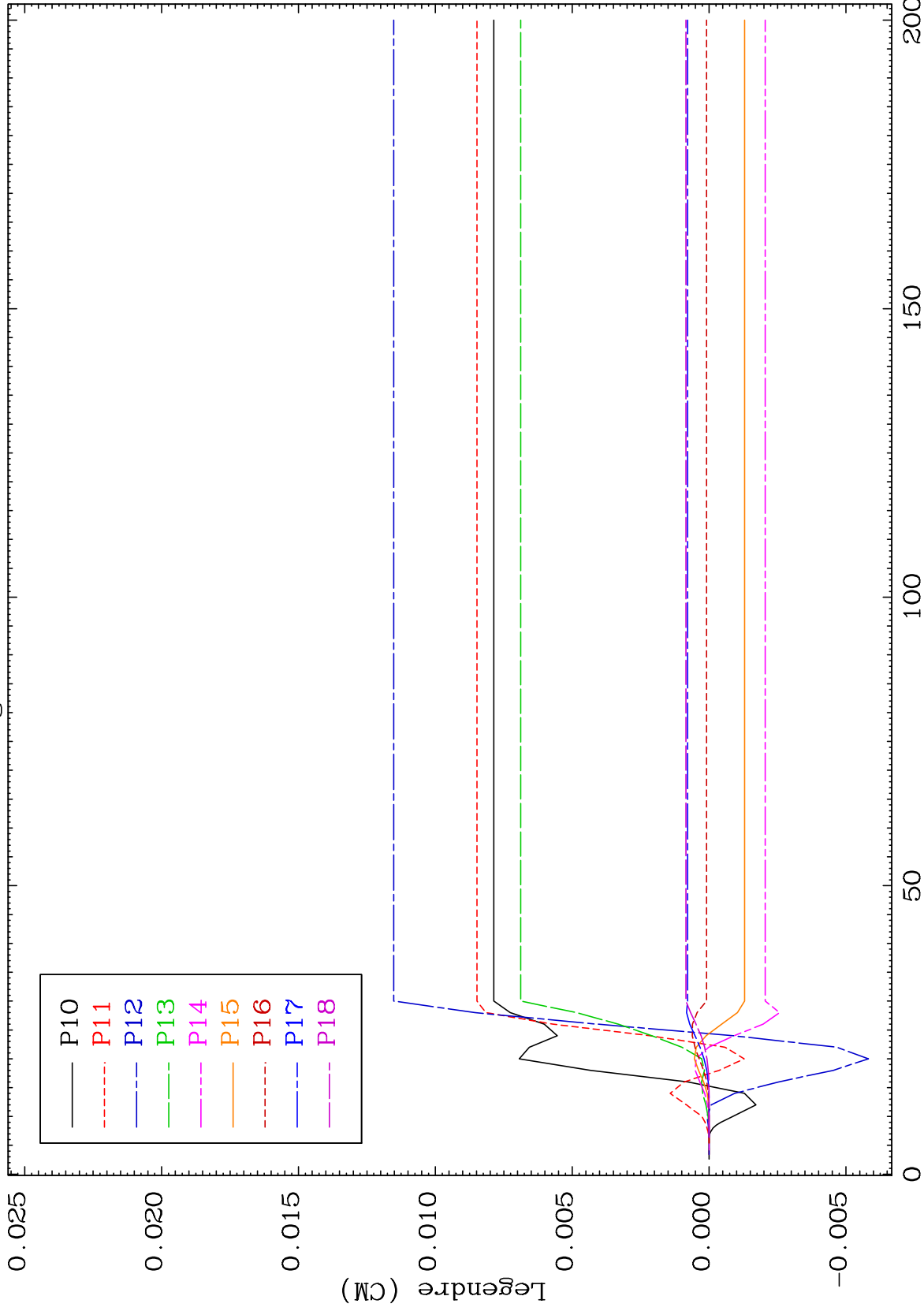
MAT 4016 MT= 70 (n,n') Level Legendre Coefficients

40-Zr-87

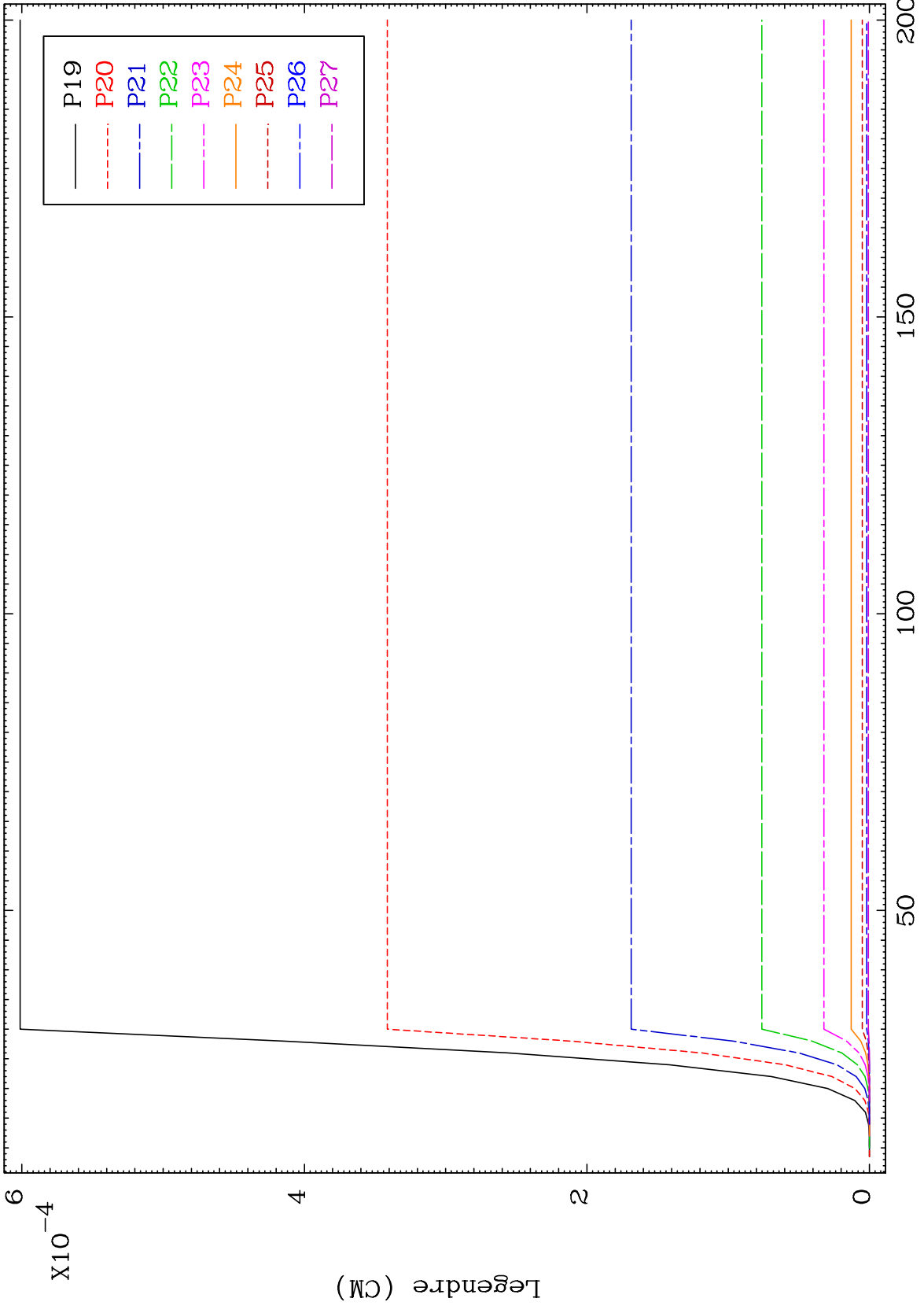
40-Zr-87

Incident Energy (MeV)

96



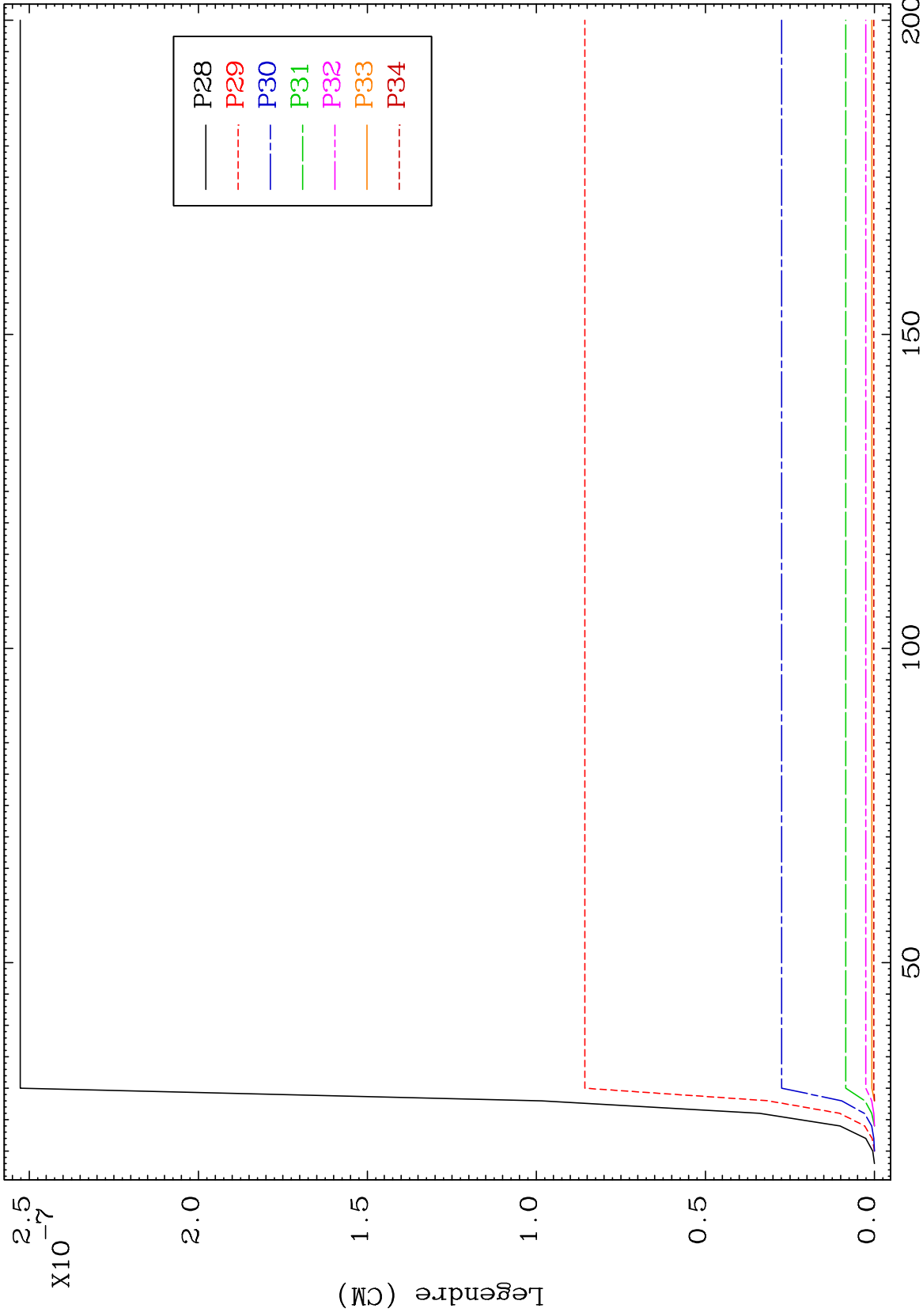
MAT 4016 MT= 70 (n,n') Level Legendre Coefficients 40-Zr-87



MAT 4016

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

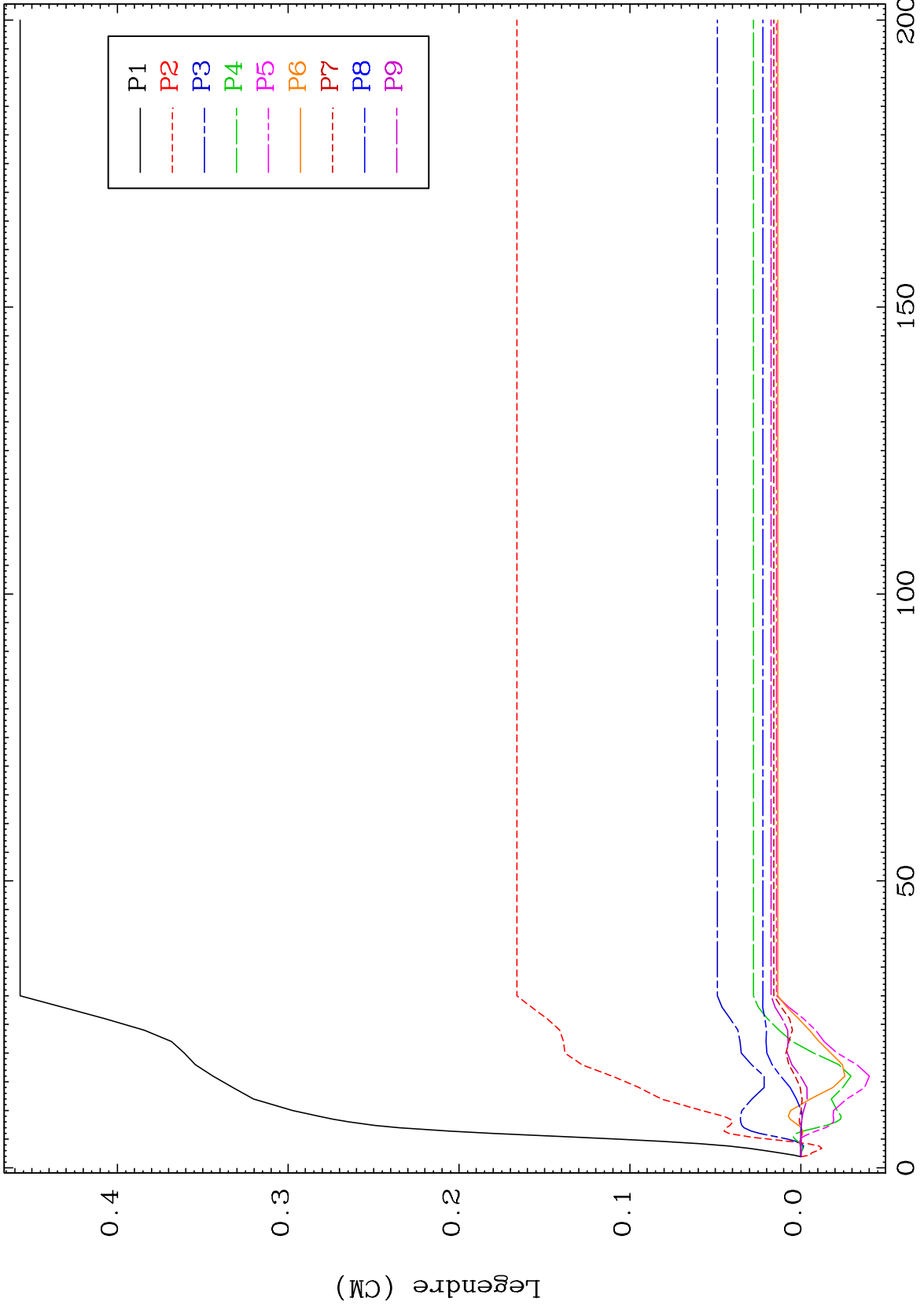
40-Zr-87



98

40-Zr-87

MAT 4016 MT= 71 (n,n') Level Legendre Coefficients 40-Zr-87

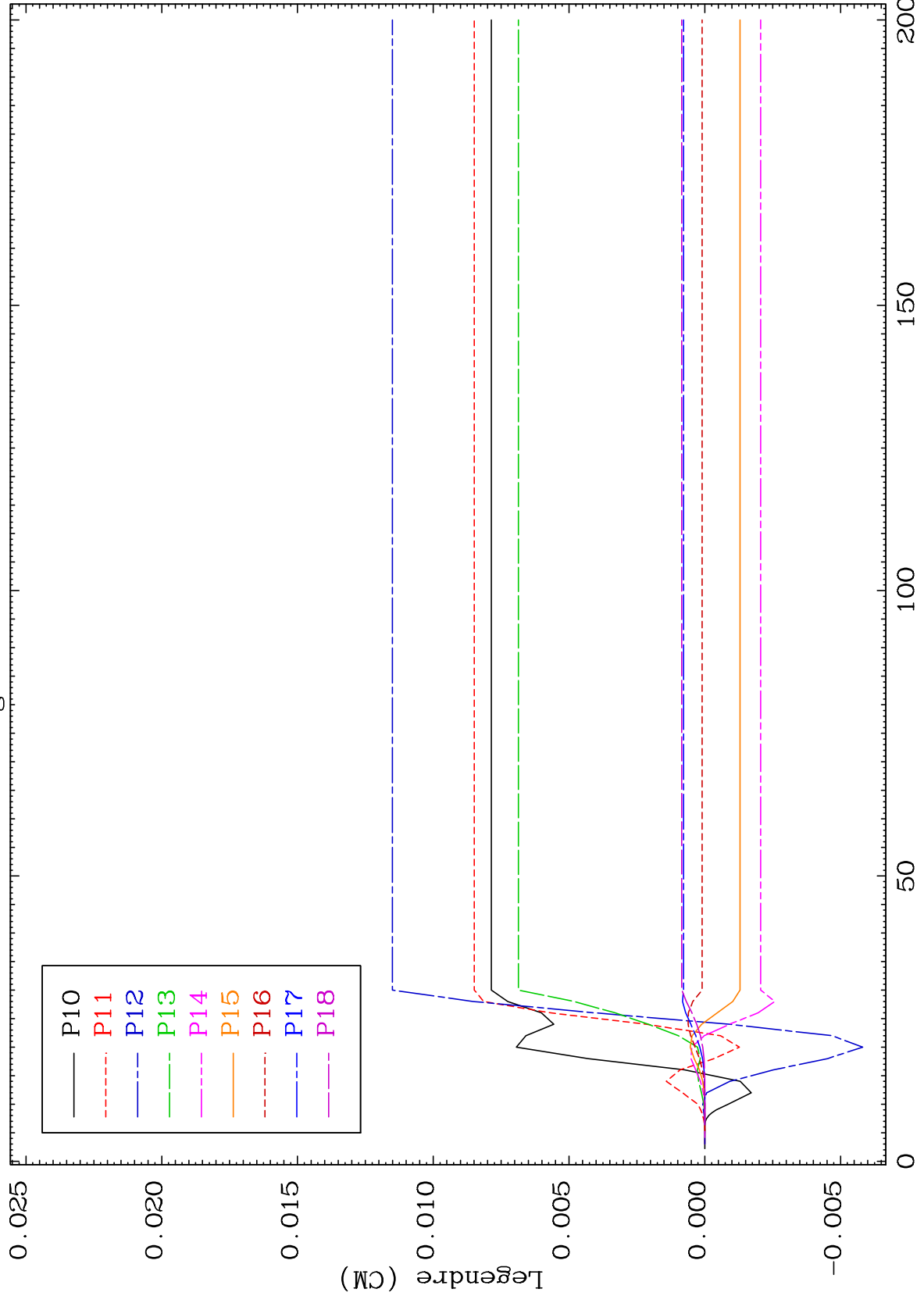


99 Incident Energy (MeV) 40-Zr-87

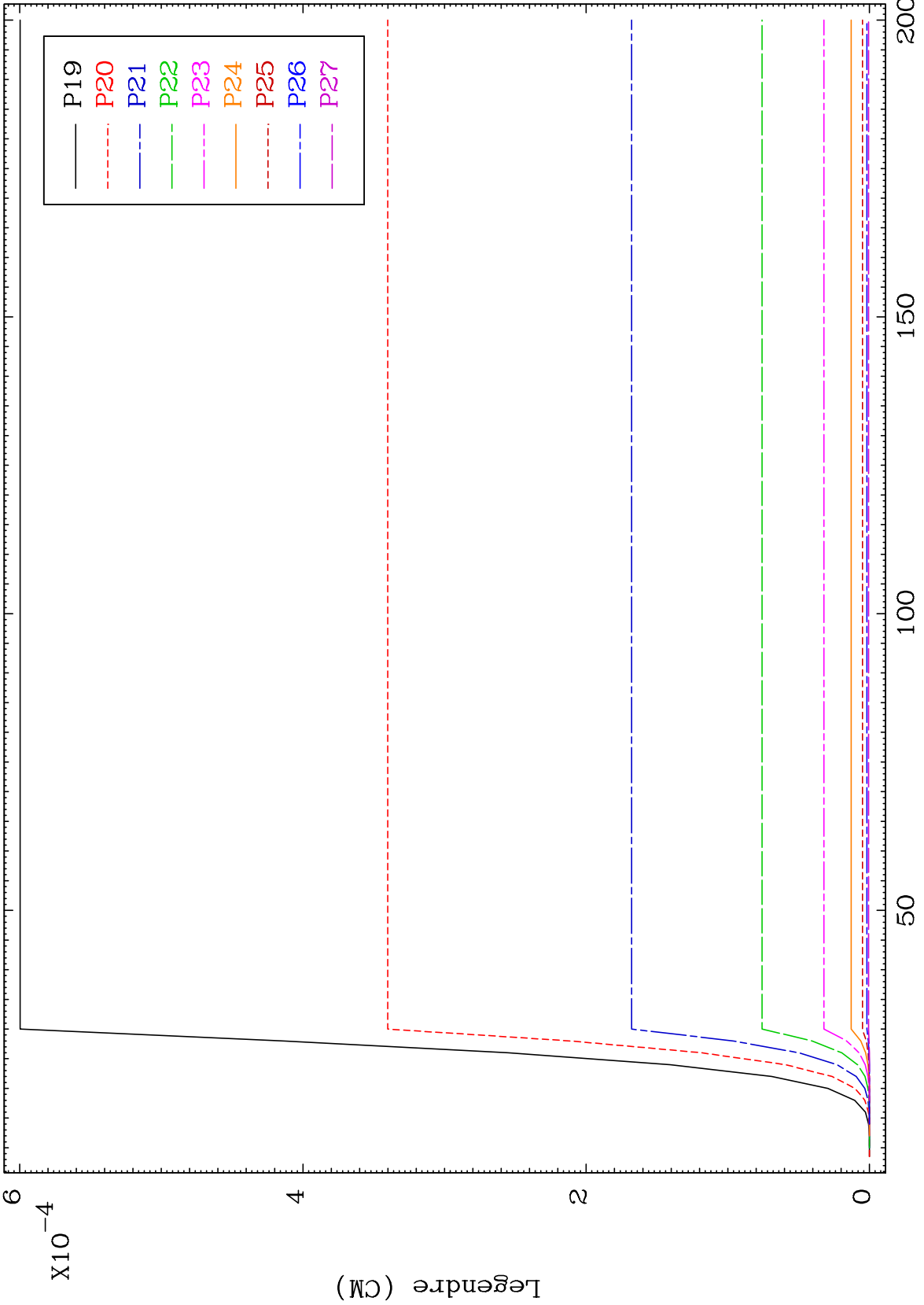
MAT 4016 MT= 71 (n,n') Level Legendre Coefficients

40-Zr-87

40-Zr-87

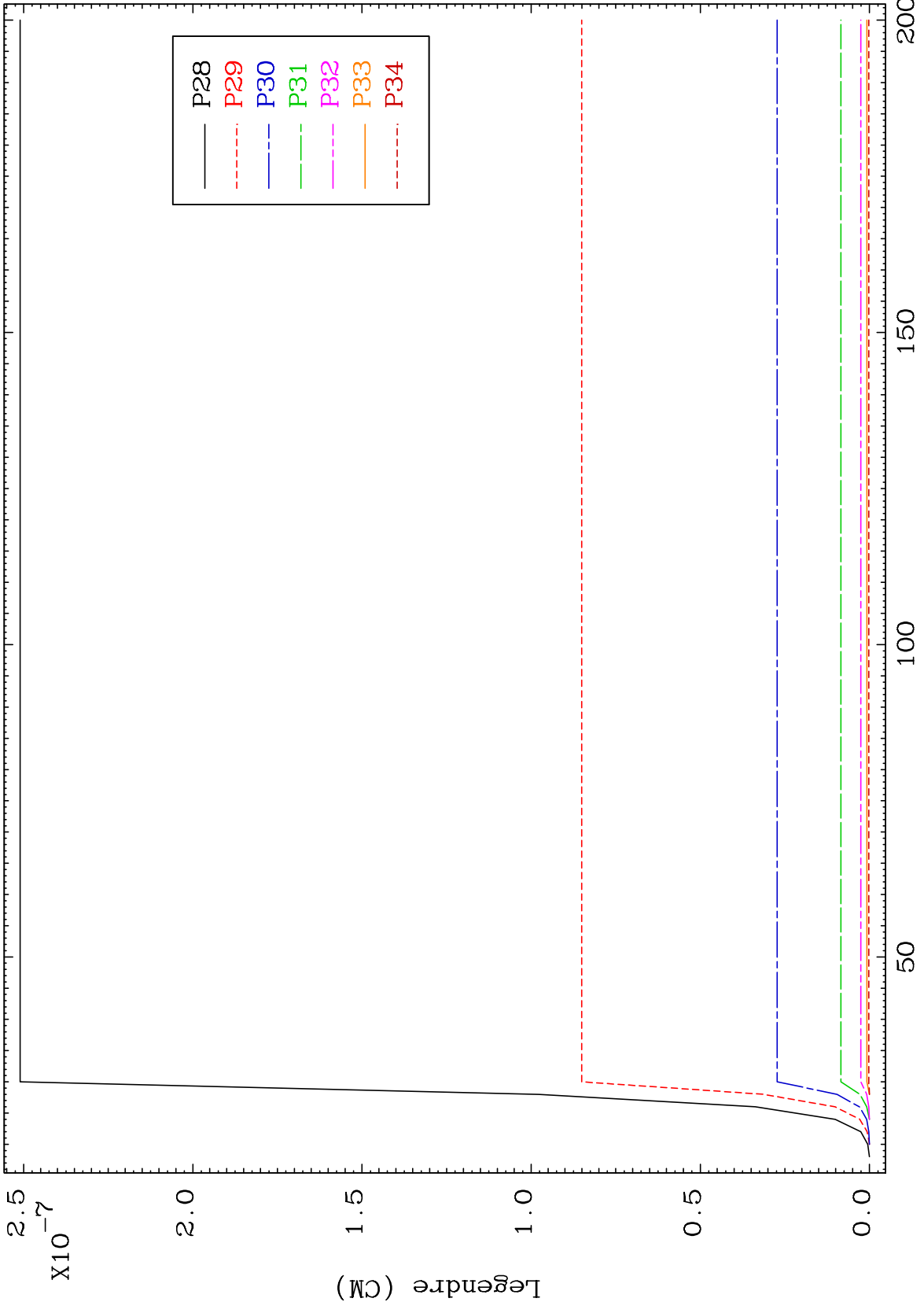


MAT 4016 MT= 71 (n,n') Level Legendre Coefficients 40-Zr-87



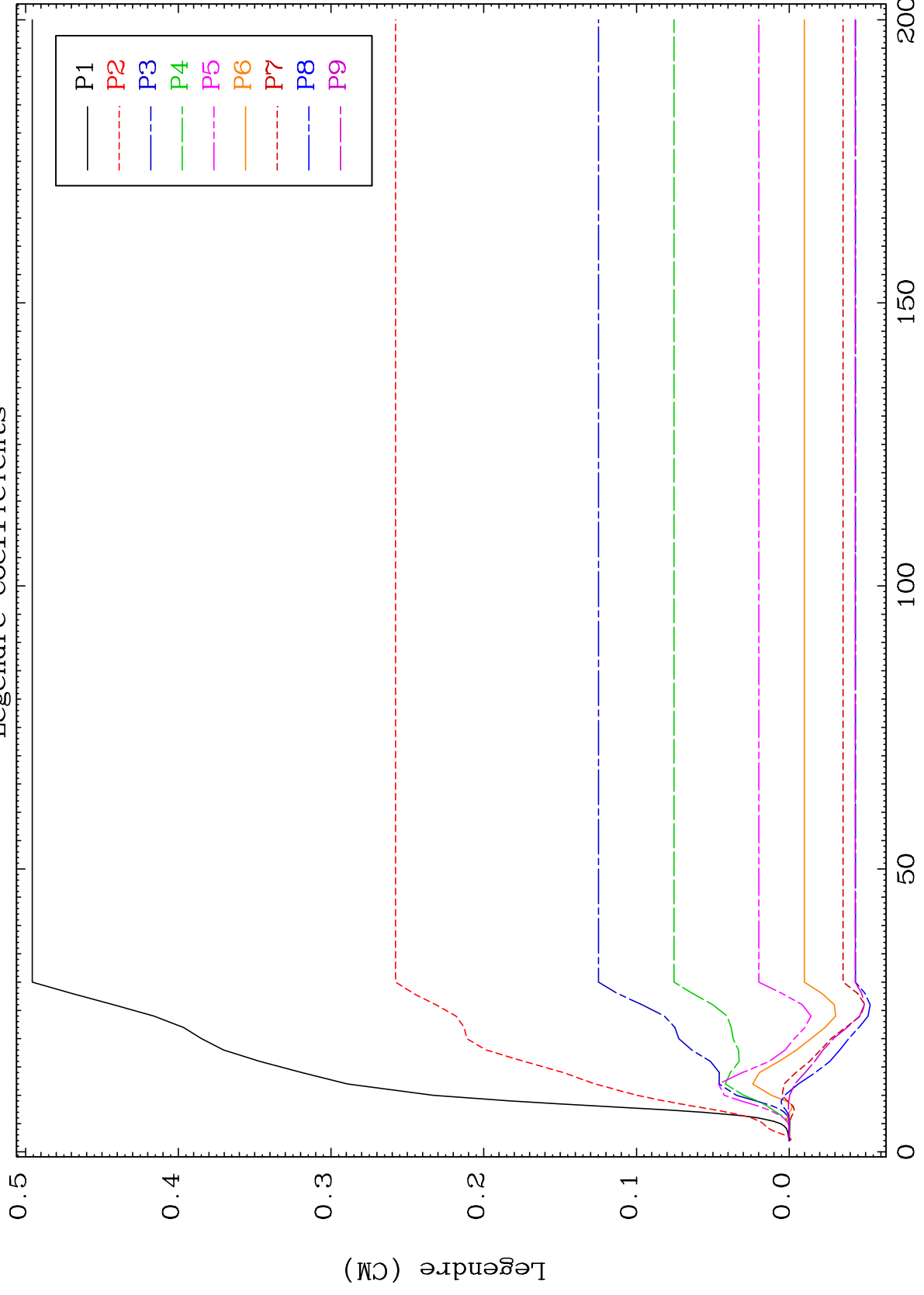
101 Incident Energy (MeV) 40-Zr-87

MAT 4016 MT= 71 (n,n') Level Legendre Coefficients 40-Zr-87



102 Incident Energy (MeV) 40-Zr-87

MAT 4016 MT= 72 (n,n') Level Legendre Coefficients 40-Zr-87

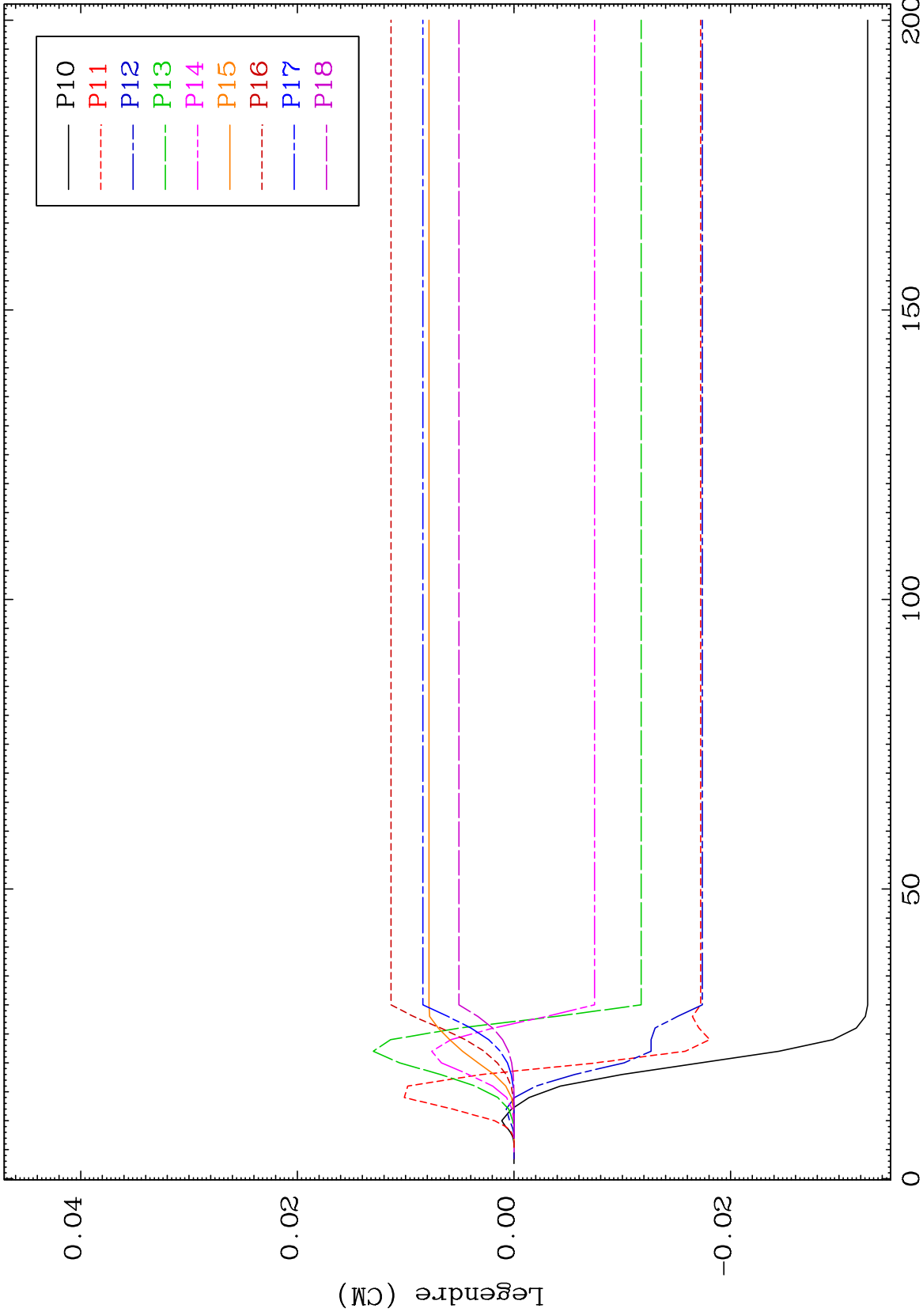


103 Incident Energy (MeV) 40-Zr-87

MAT 4016

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

40-Zr-87

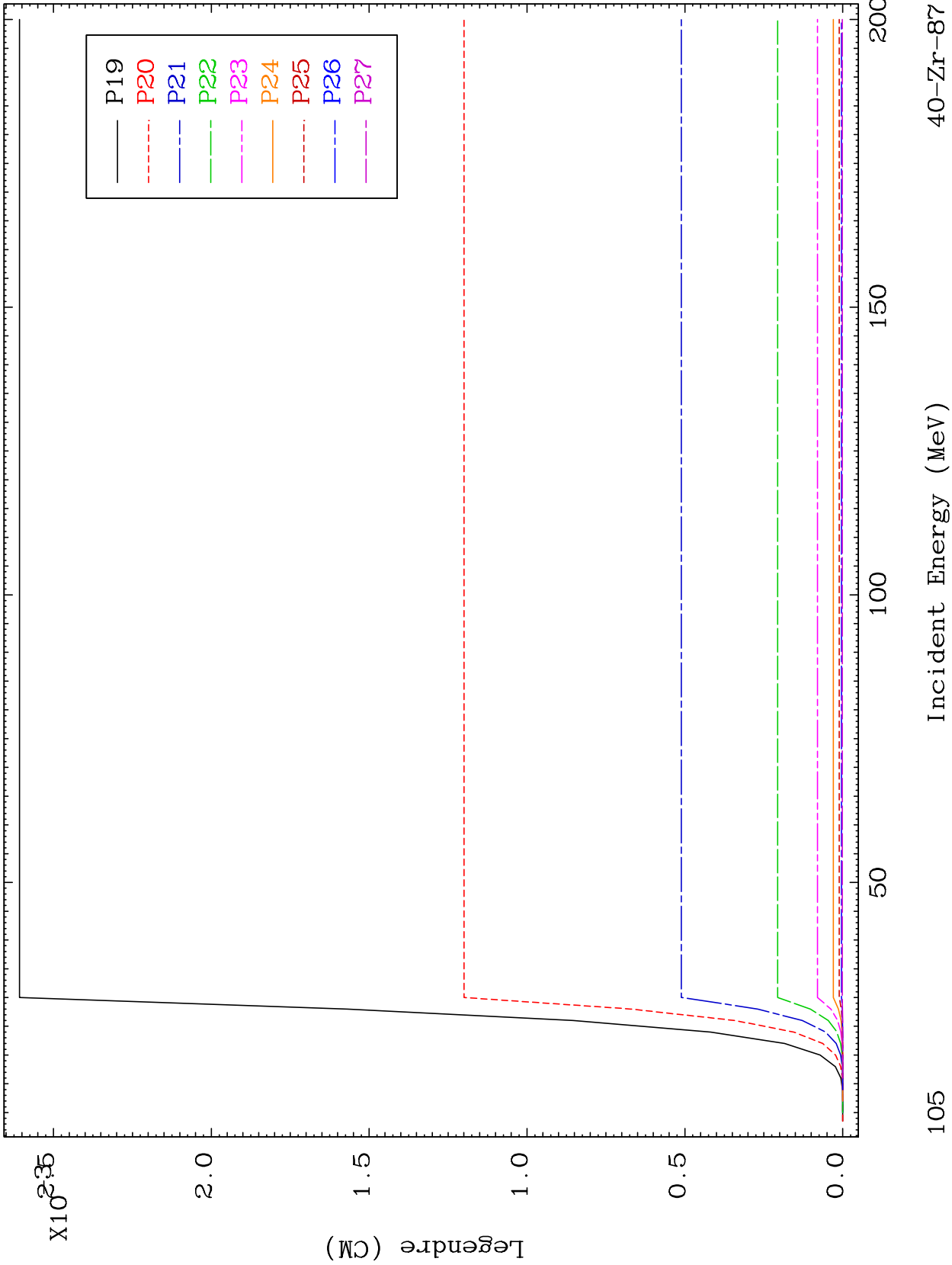


104

Incident Energy (MeV)

40-Zr-87

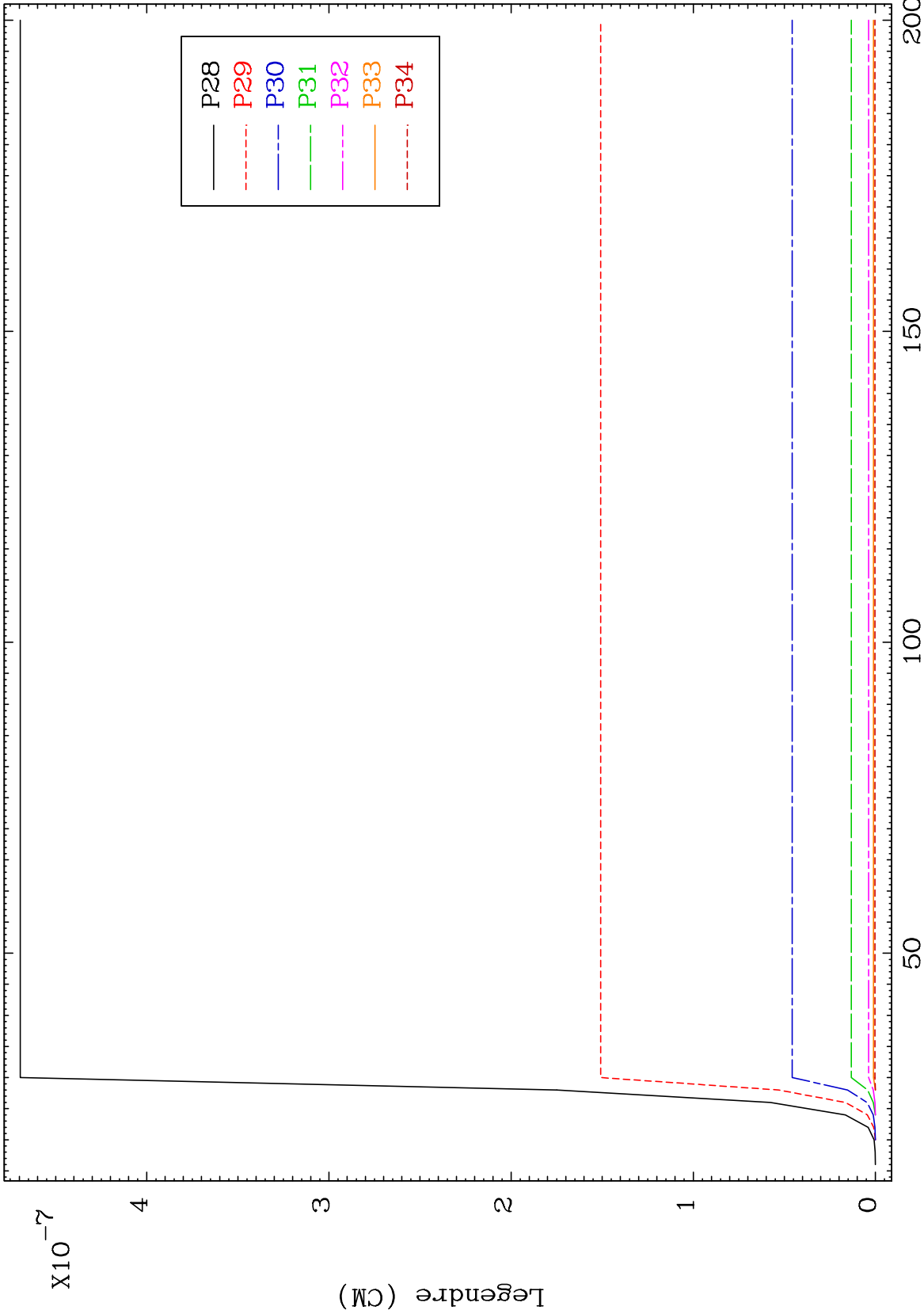
MAT 4016 MT= 72 (n,n') Level Legendre Coefficients 40-Zr-87



MAT 4016

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

40-Zr-87

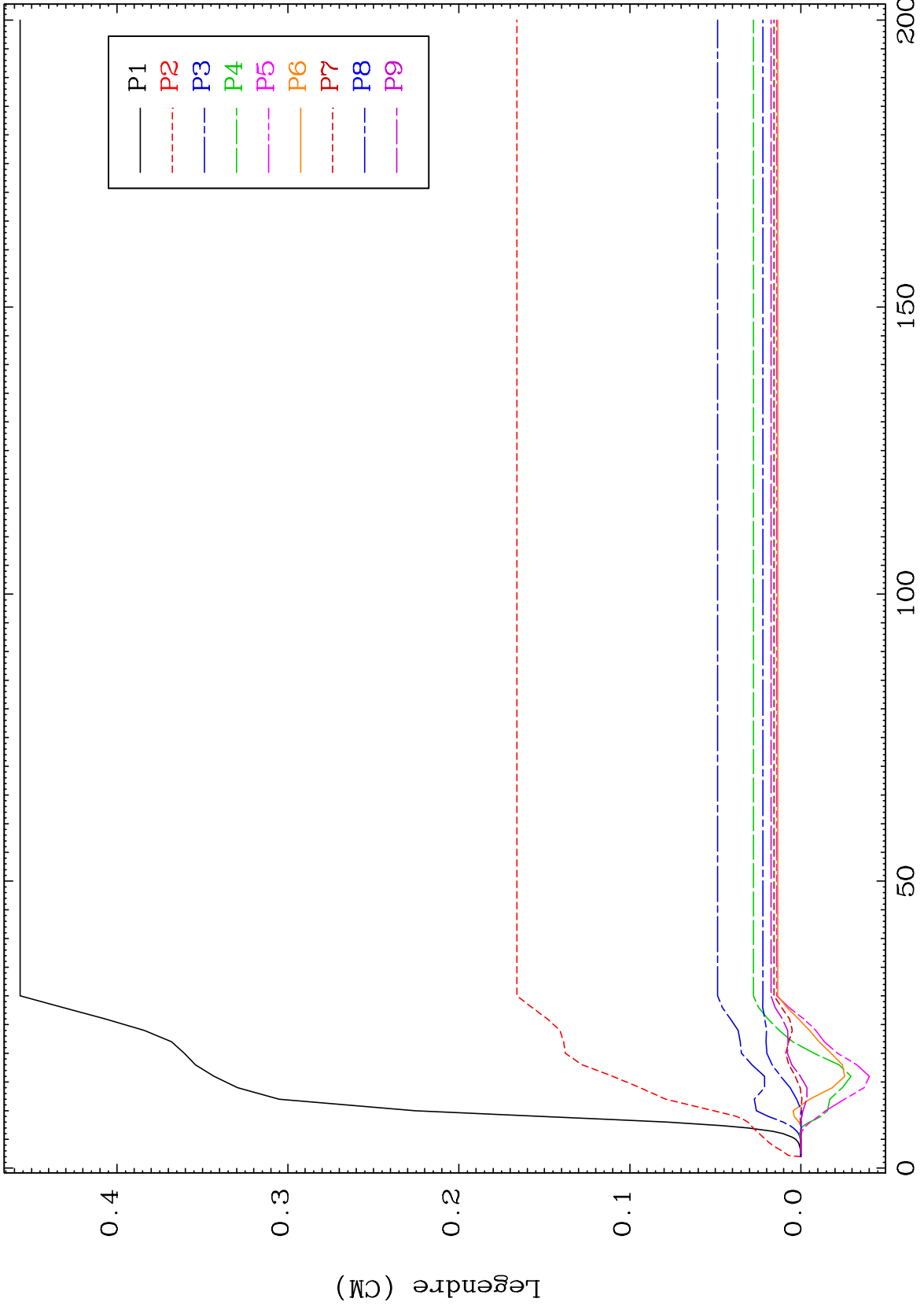


106

Incident Energy (MeV)

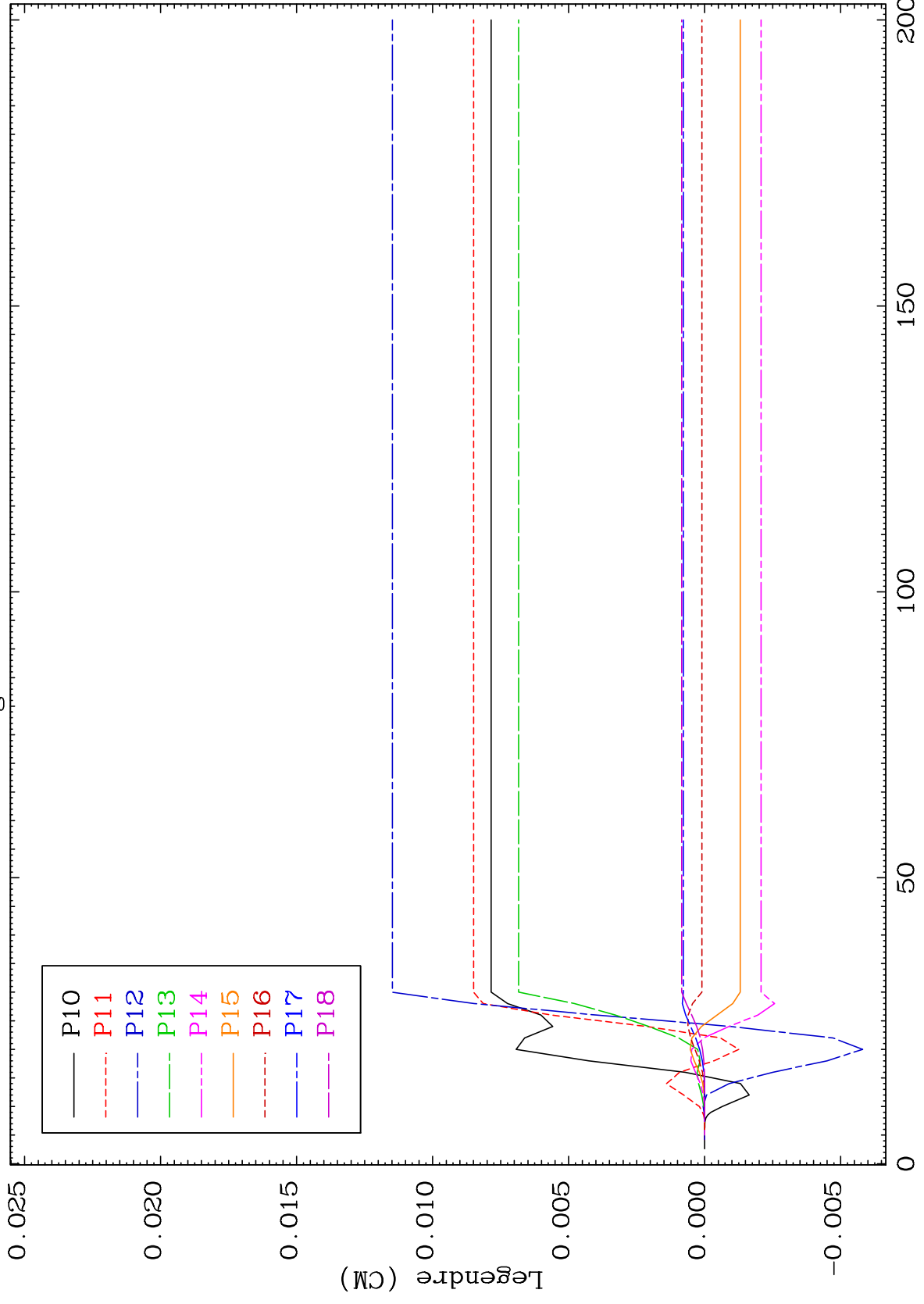
40-Zr-87

MAT 4016 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-87



107 40-Zr-87

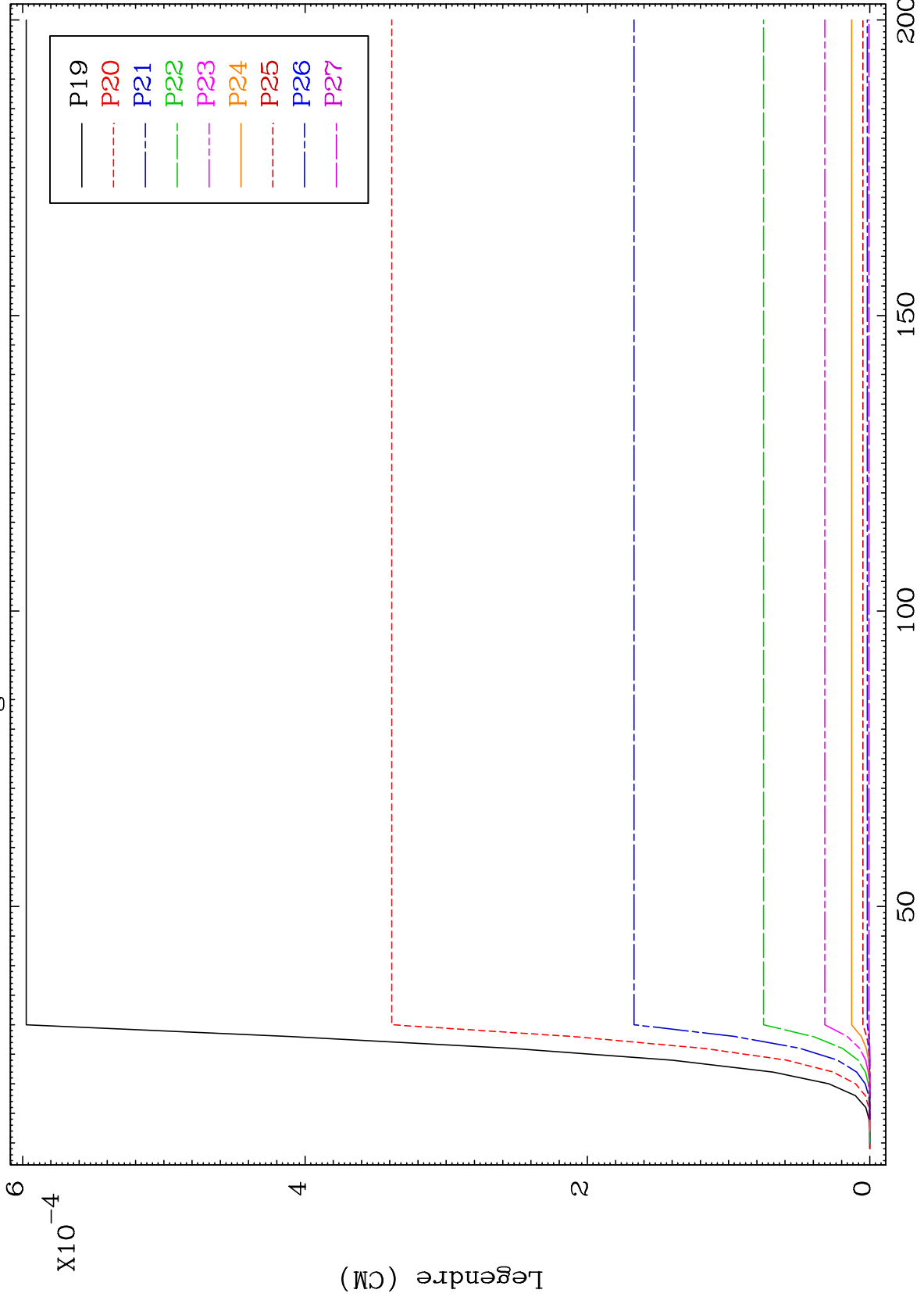
MAT 4016 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-87



40-Zr-87

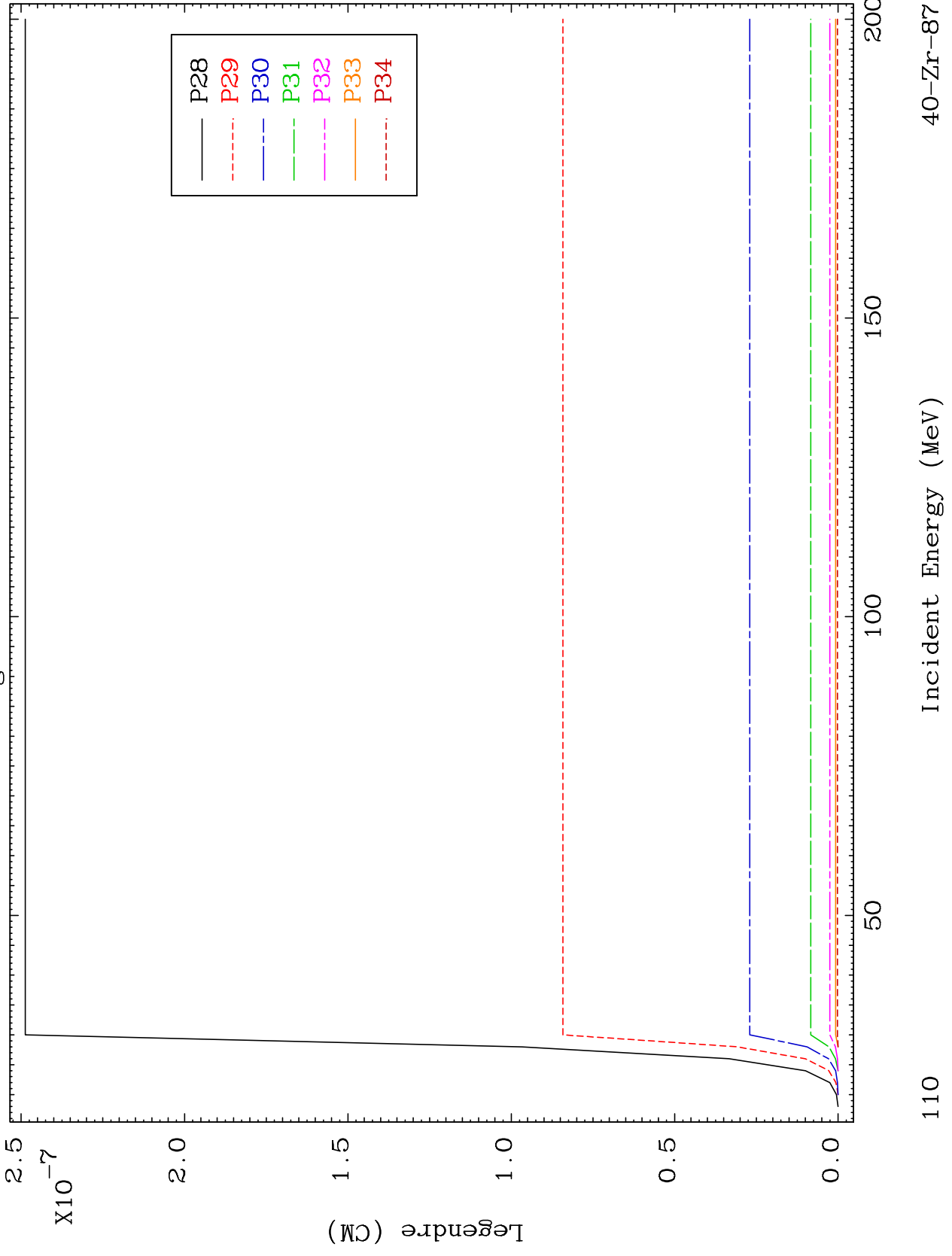
108

MAT 4016 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-87

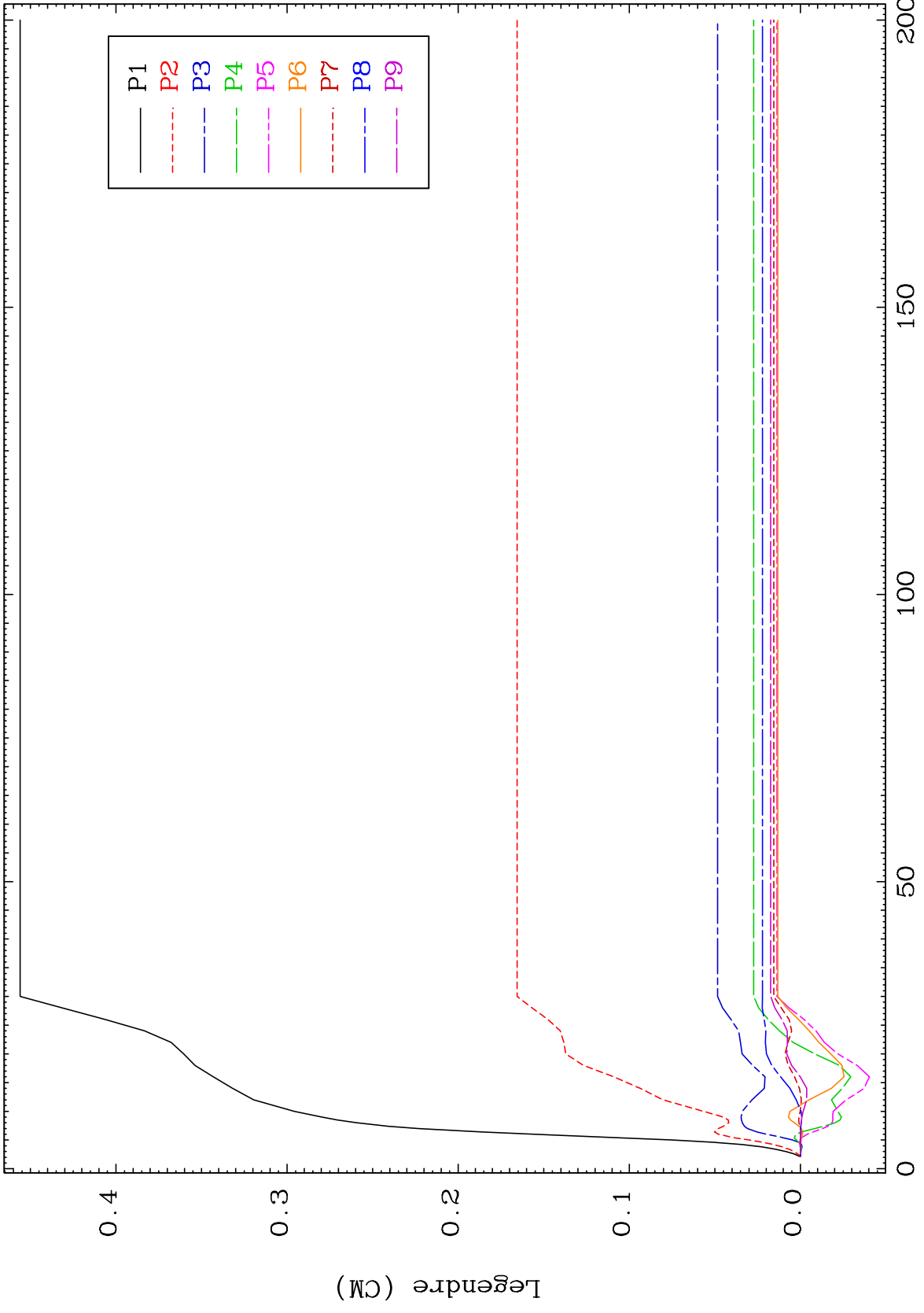


109 50 100 150 200 40-Zr-87

MAT 4016 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-87

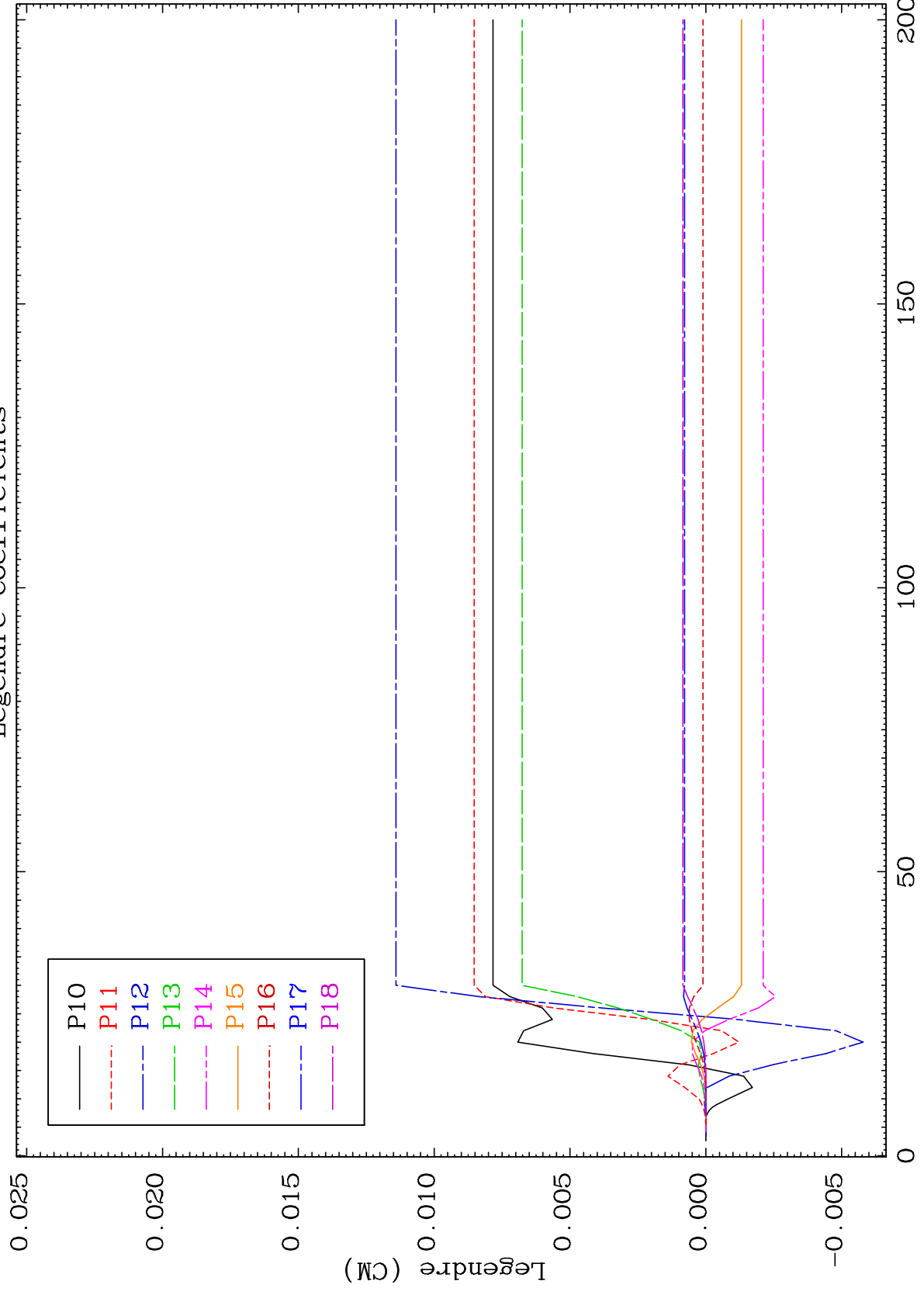


MAT 4016 MT= 74 (n,n') Level Legendre Coefficients 40-Zr-87



111 40-Zr-87

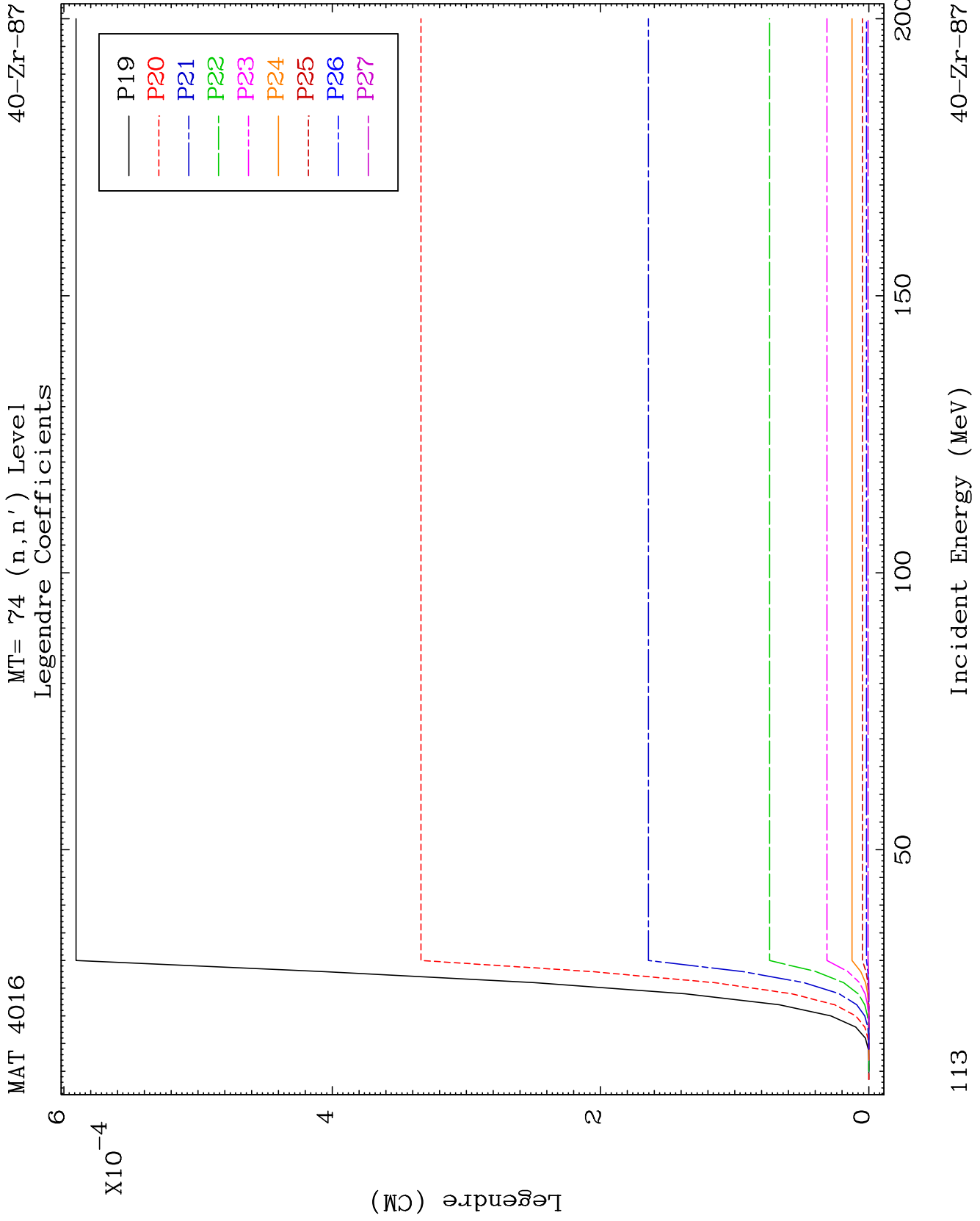
MAT 4016 MT= 74 (n,n') Level Legendre Coefficients 40-Zr-87



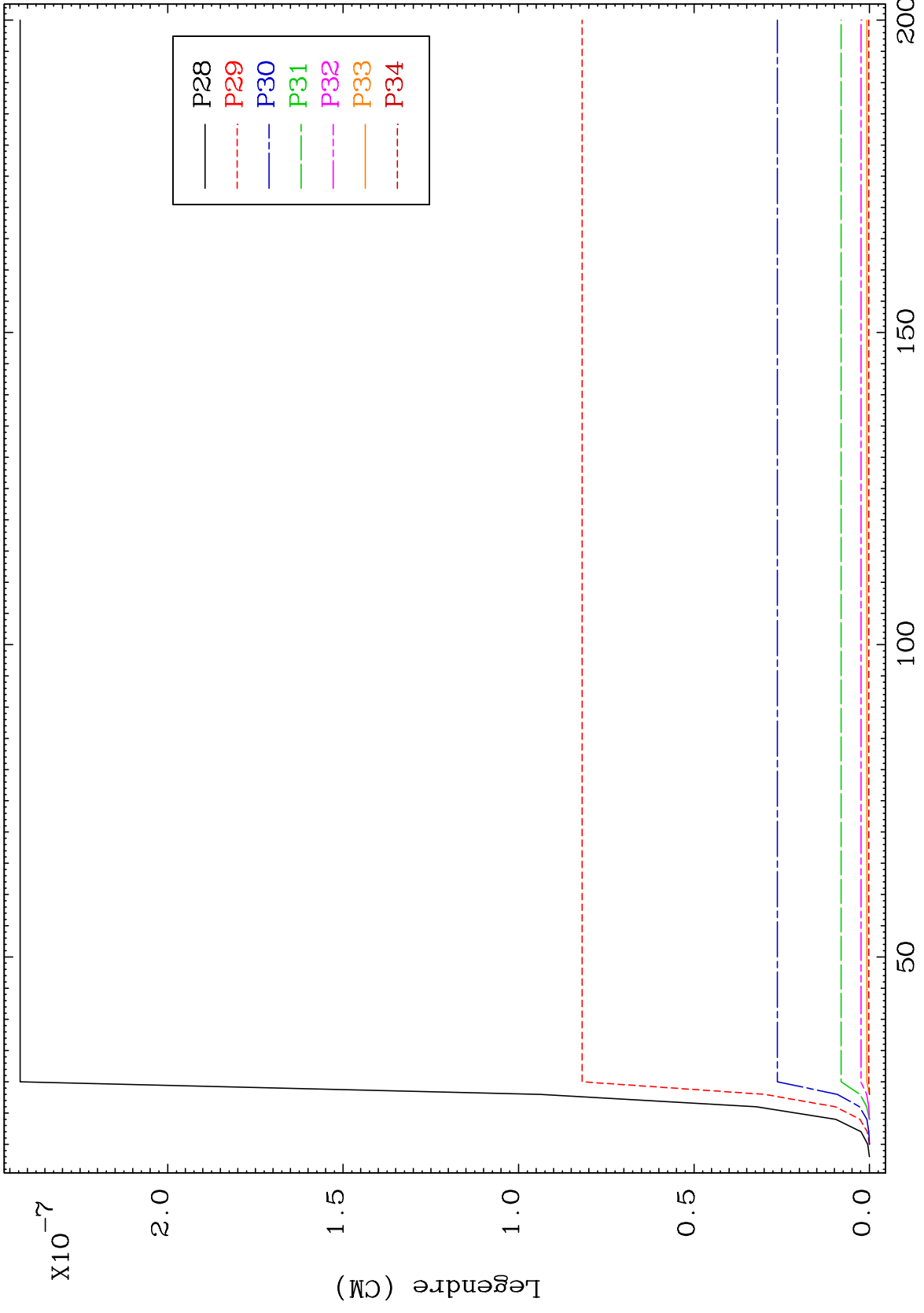
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Incident Energy (MeV)

112

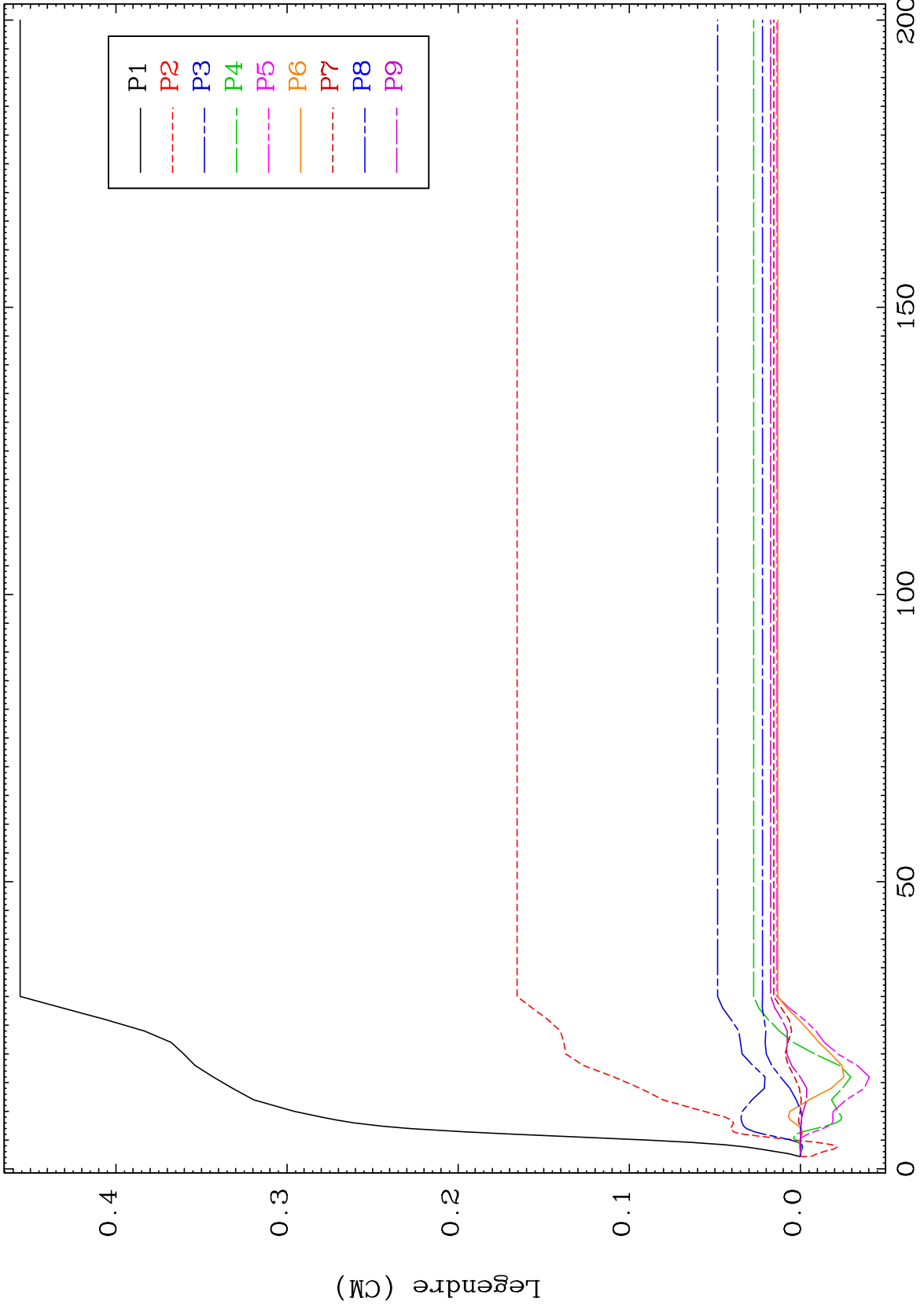


MAT 4016 MT= 74 (n,n') Level Legendre Coefficients 40-Zr-87



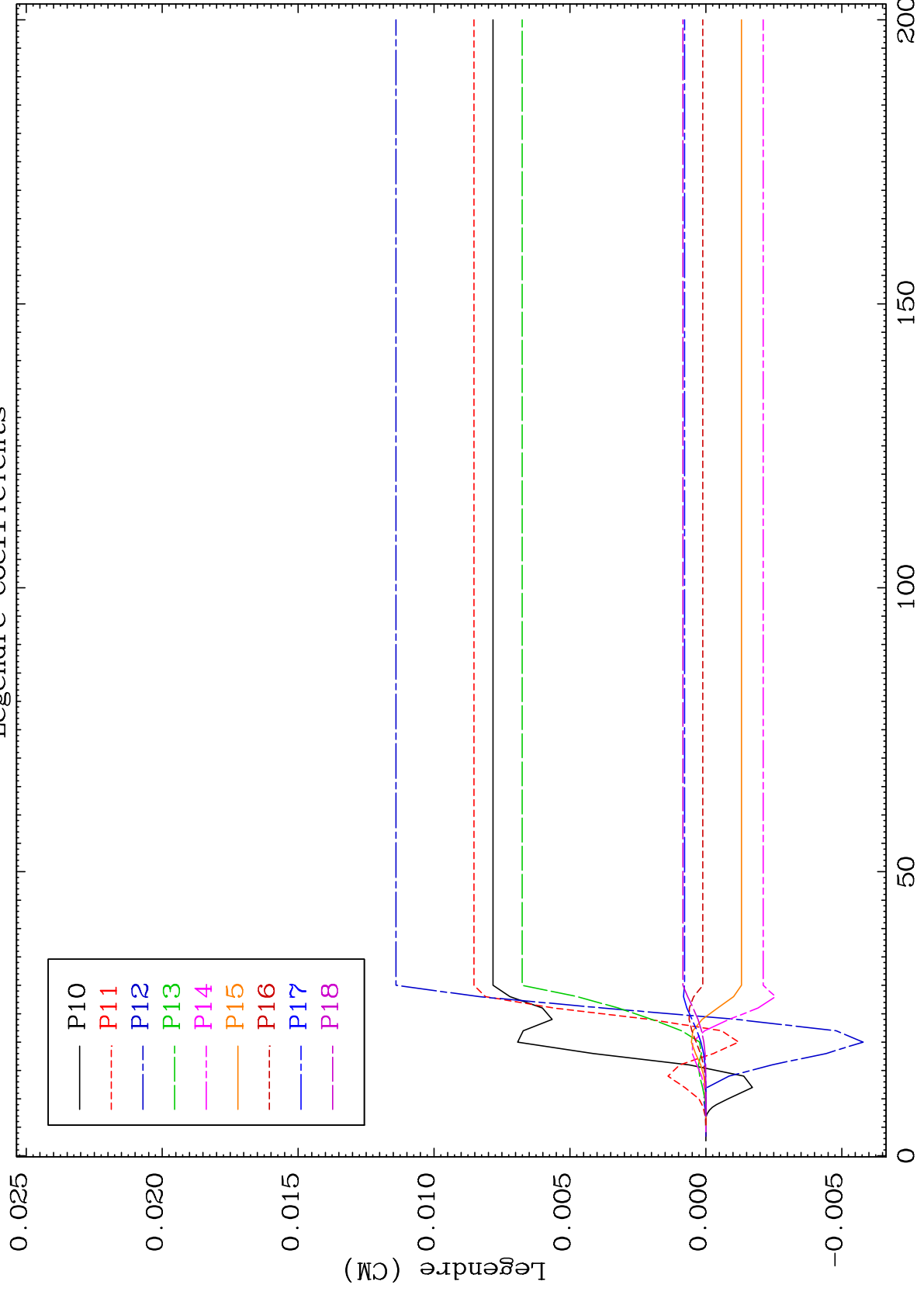
114 40-Zr-87

MAT 4016 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-87



115 Incident Energy (MeV) 40-Zr-87

MAT 4016 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-87

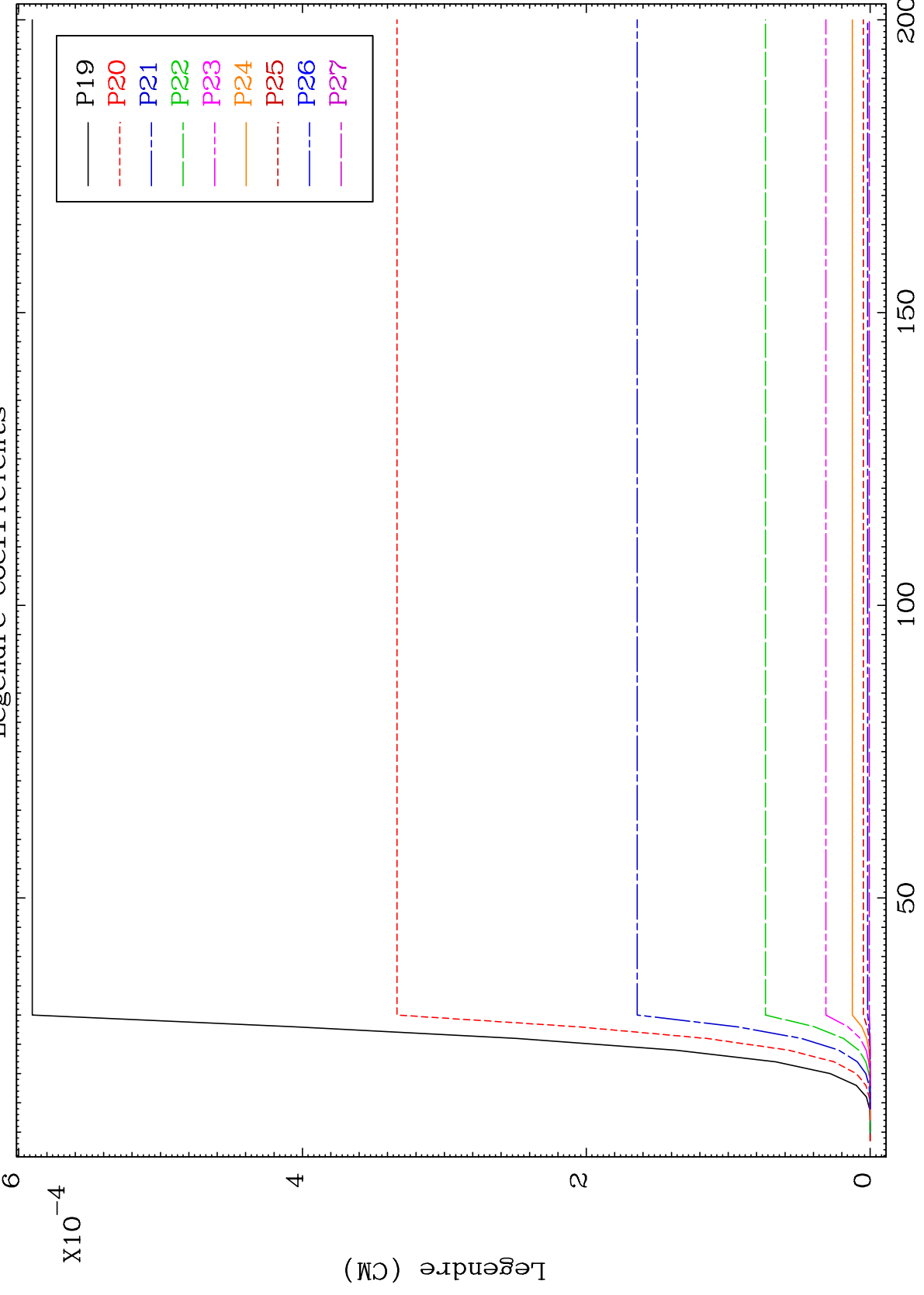


40-Zr-87

Incident Energy (MeV)

116

MAT 4016 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-87

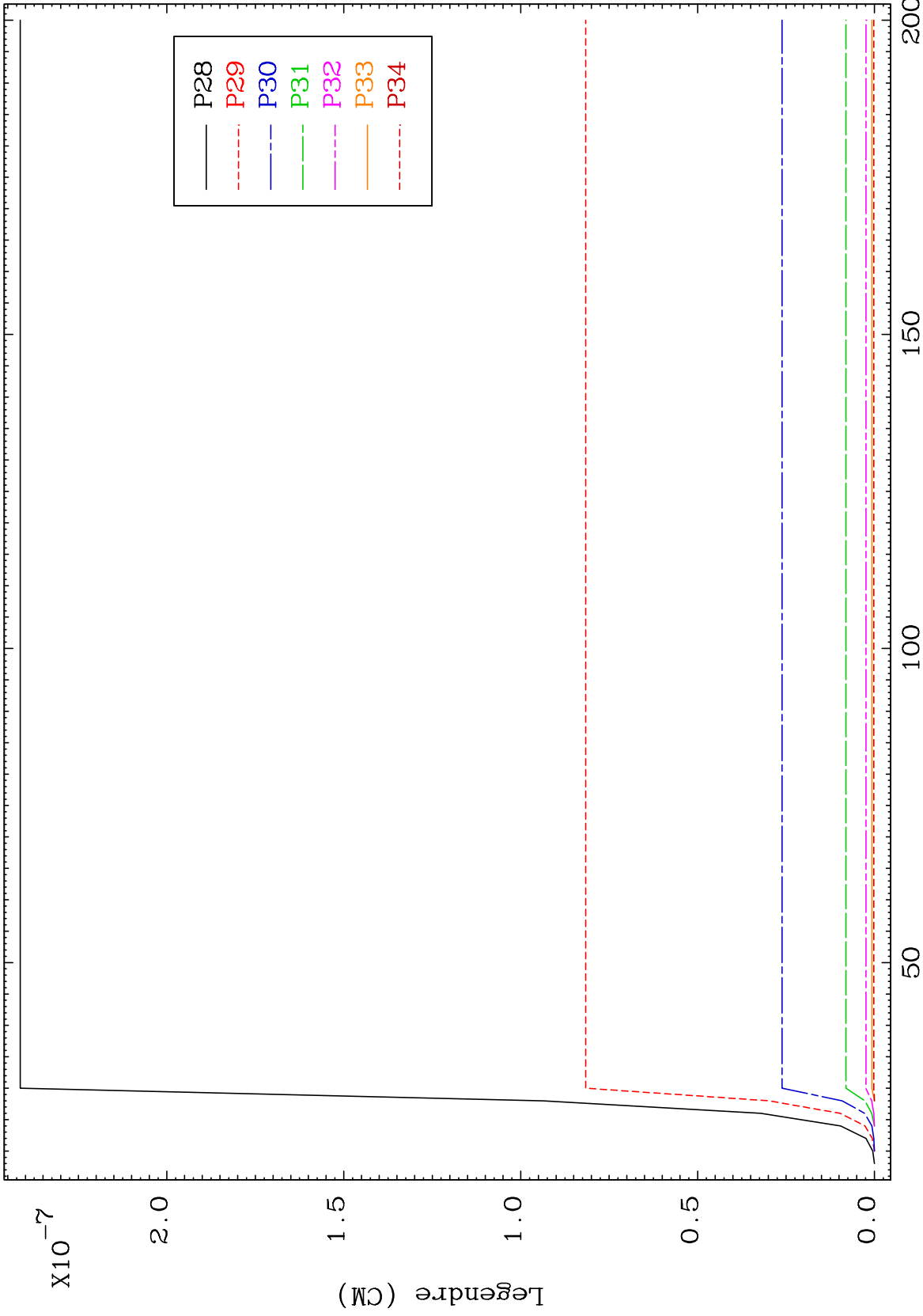


117 40-Zr-87

MAT 4016

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

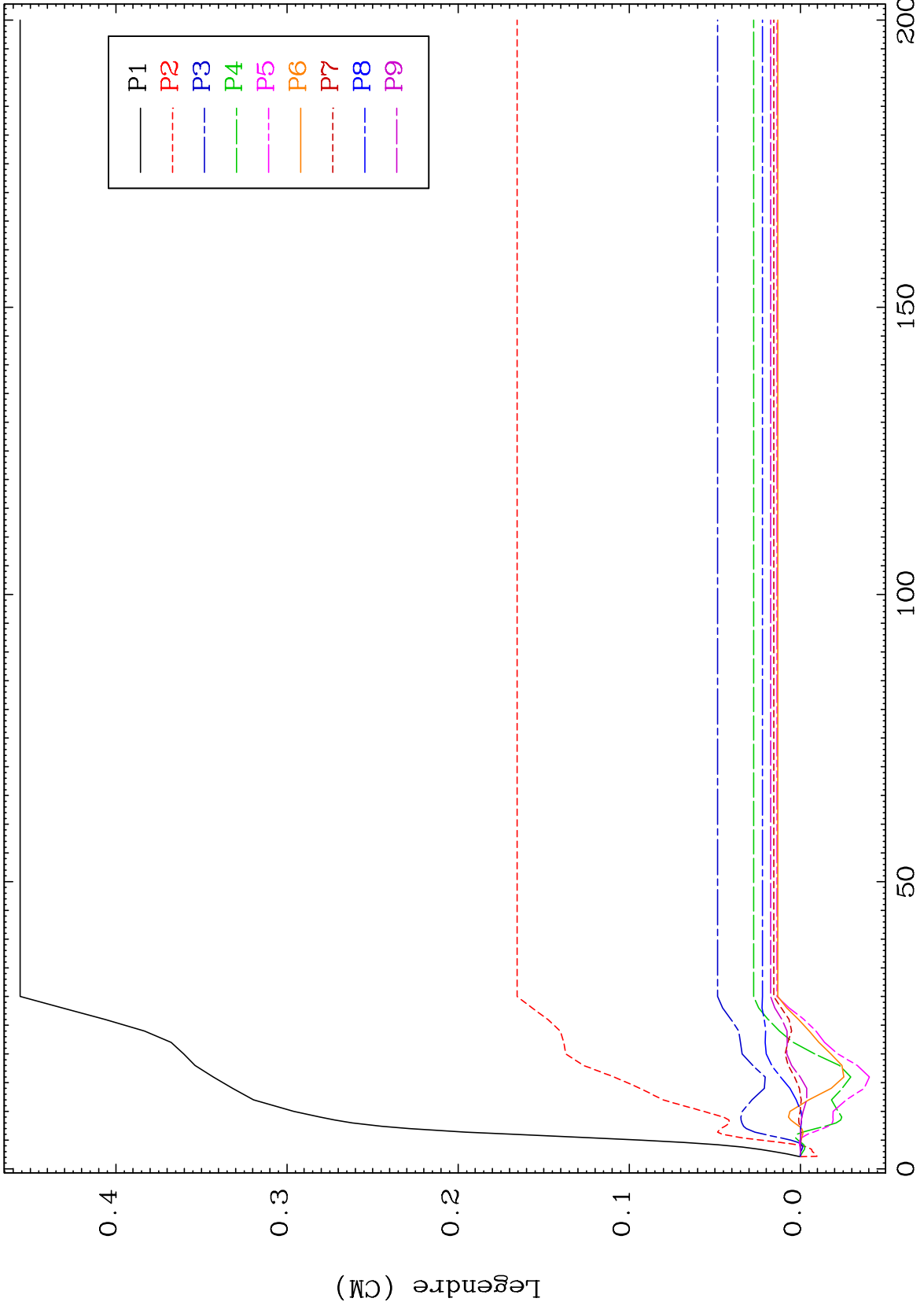
40-Zr-87



118

40-Zr-87

MAT 4016 MT= 76 (n,n') Level Legendre Coefficients 40-Zr-87

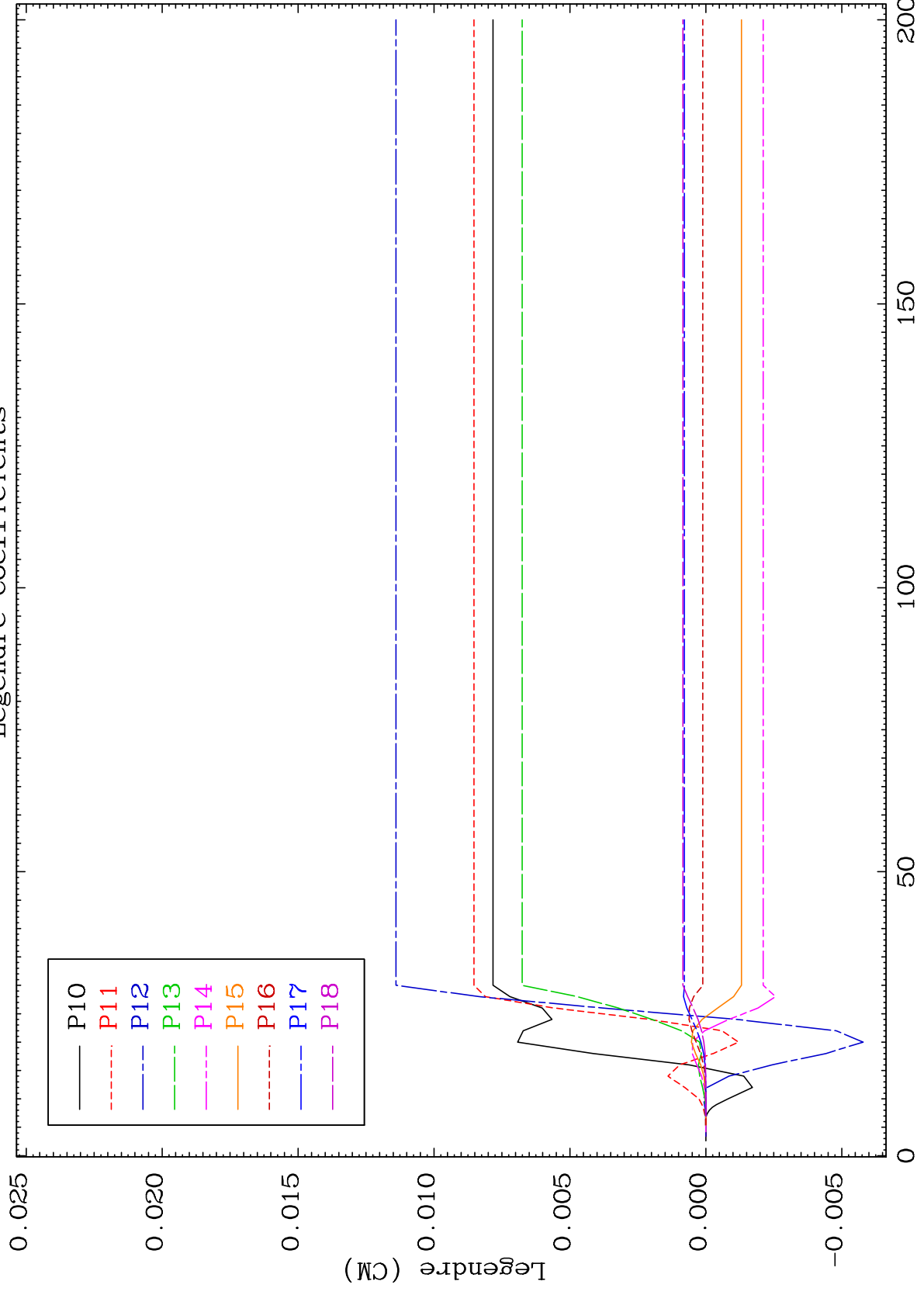


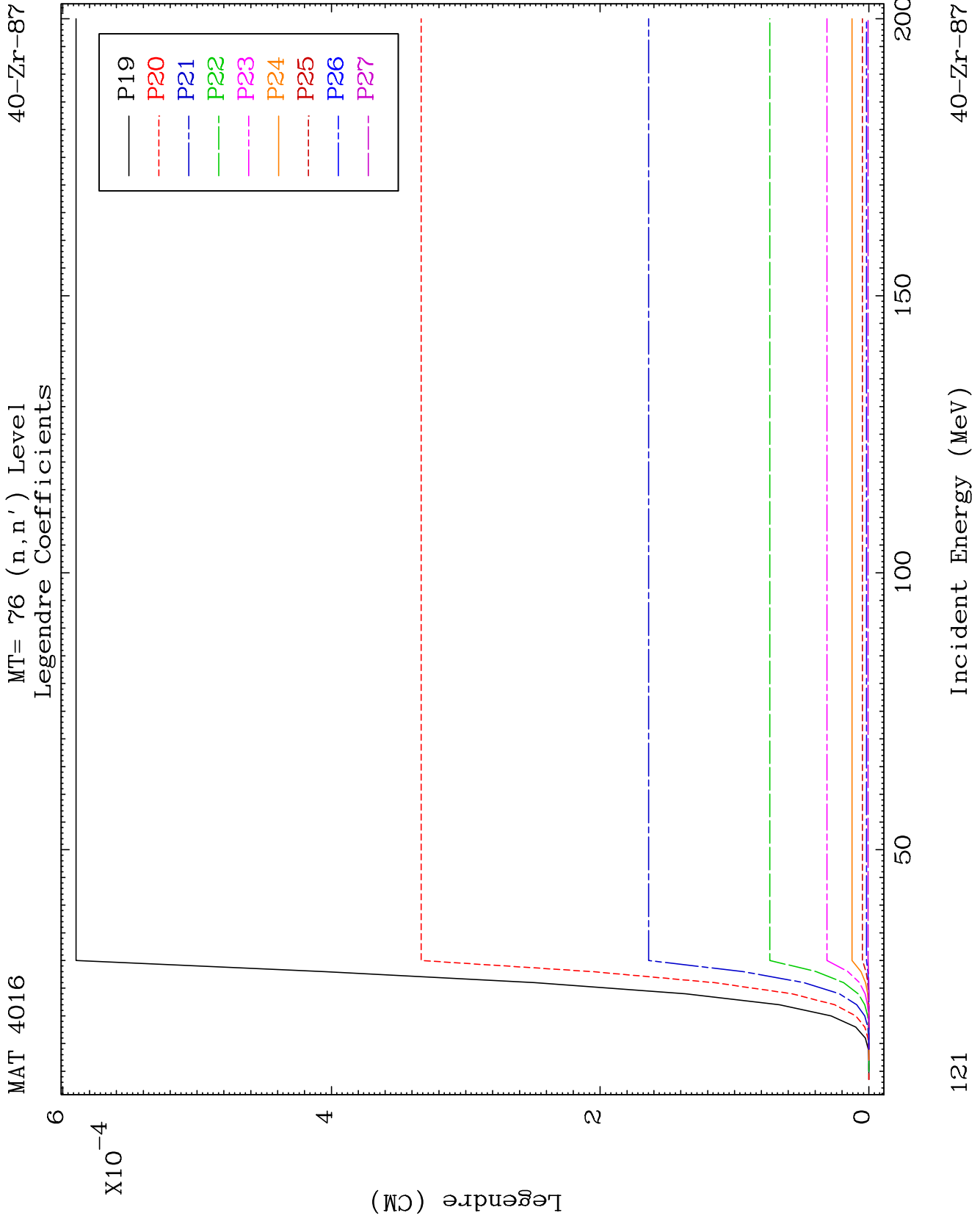
119 40-Zr-87

MAT 4016 MT= 76 (n,n') Level Legendre Coefficients

40-Zr-87

40-Zr-87

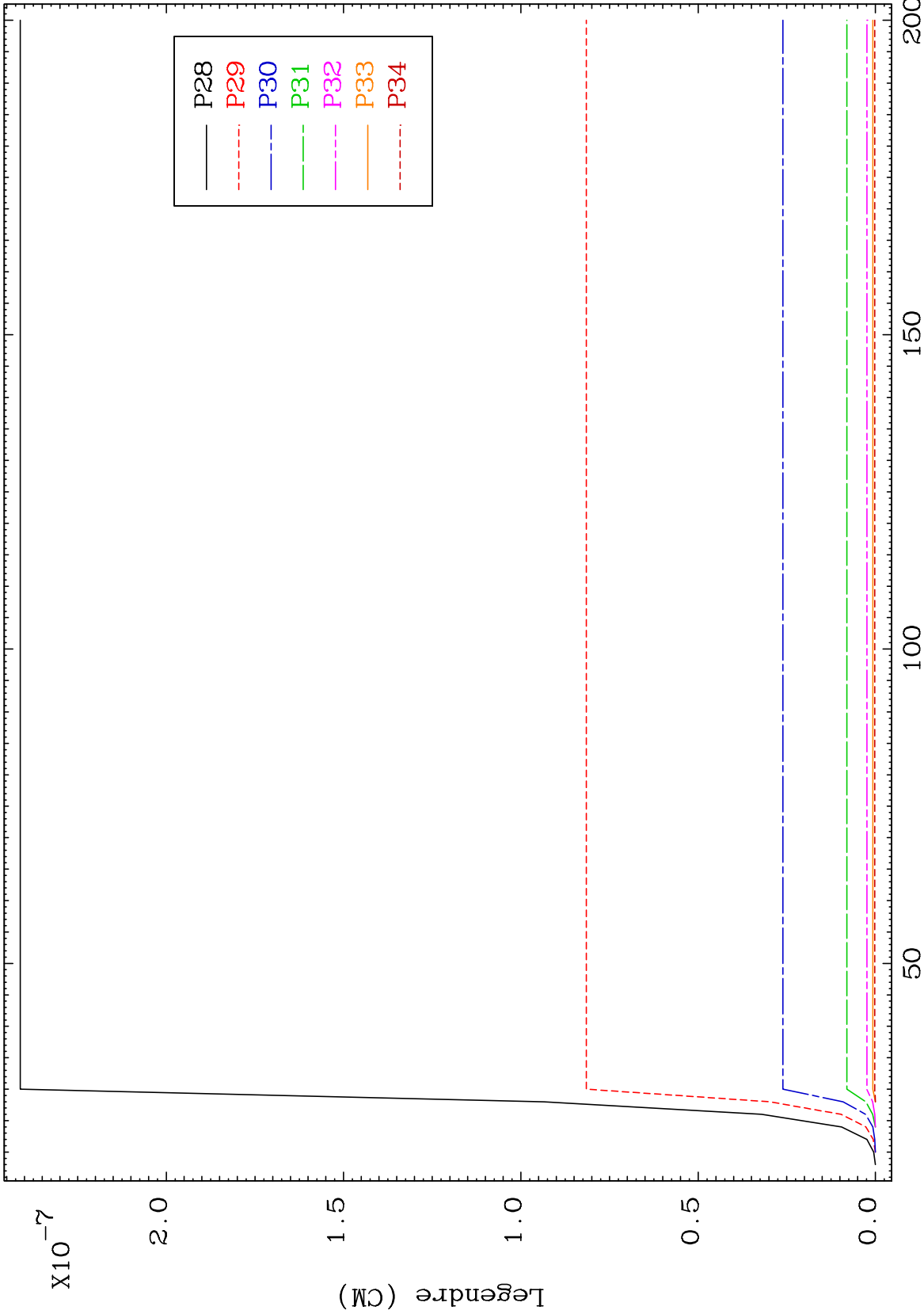




MAT 4016

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

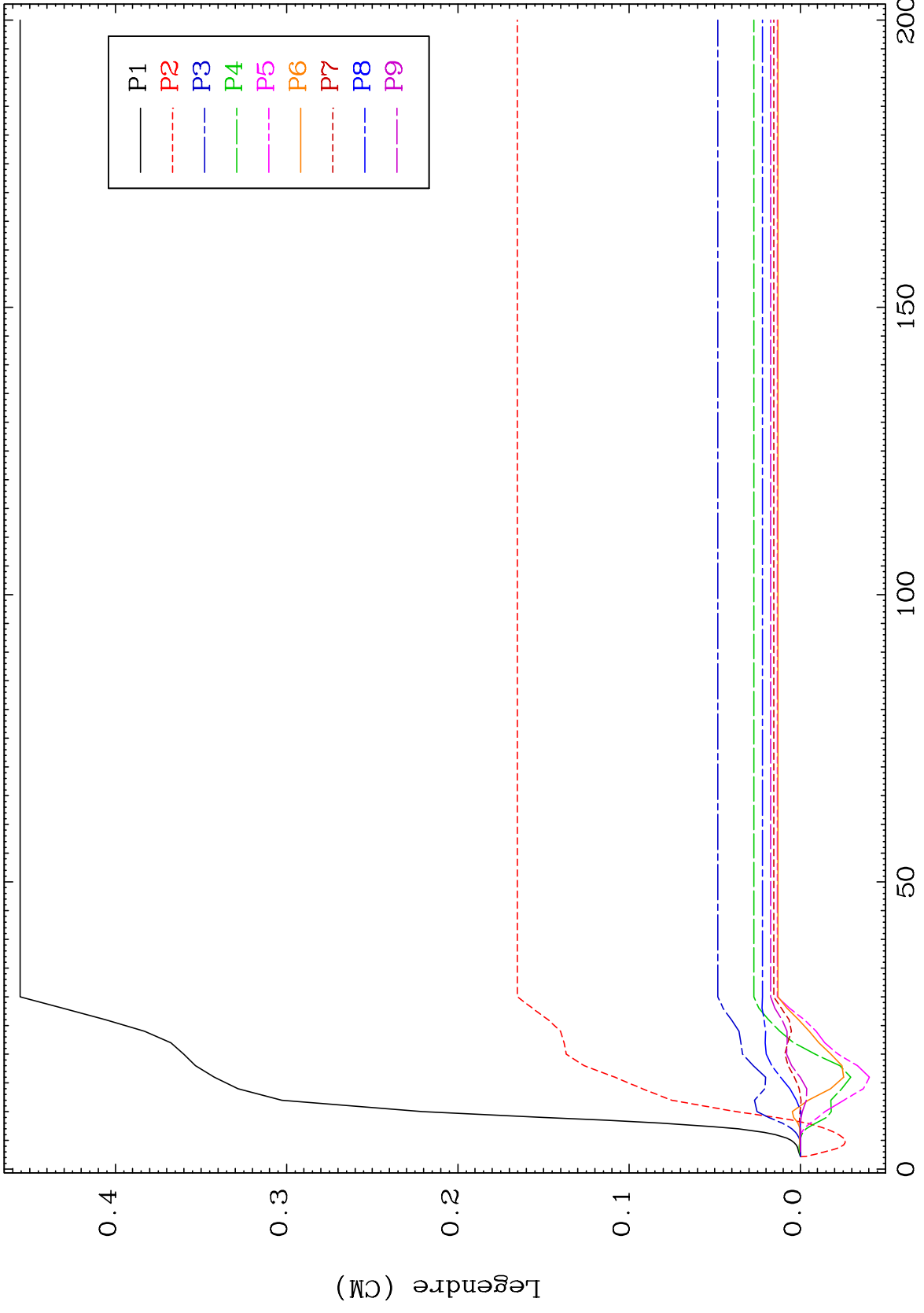
40-Zr-87



122

40-Zr-87

MAT 4016 MT= 77 (n,n') Level Legendre Coefficients 40-Zr-87

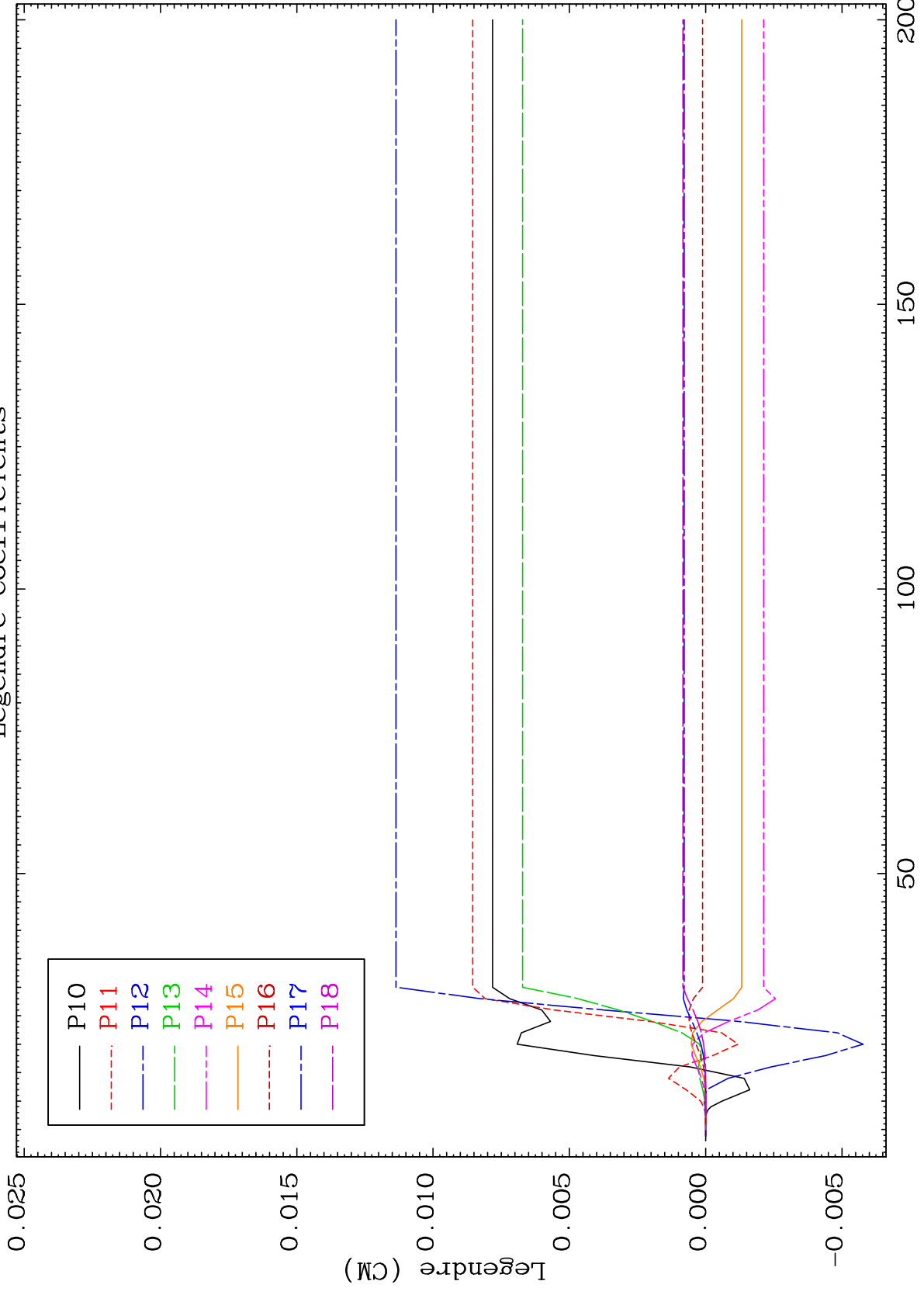


123 Incident Energy (MeV) 40-Zr-87

MAT 4016 MT= 77 (n,n') Level Legendre Coefficients

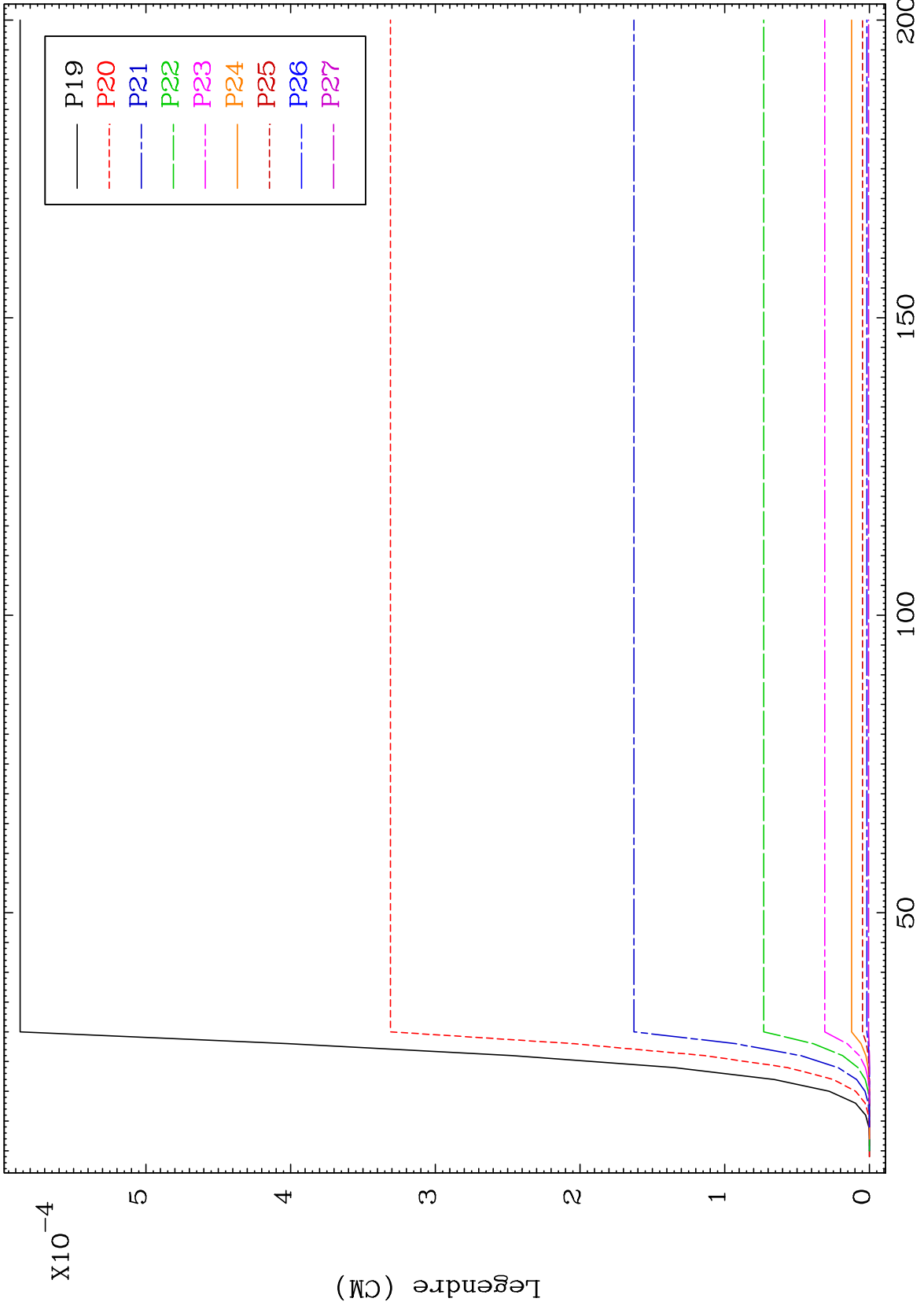
40-Zr-87

40-Zr-87



124

MAT 4016 MT= 77 (n,n') Level Legendre Coefficients 40-Zr-87

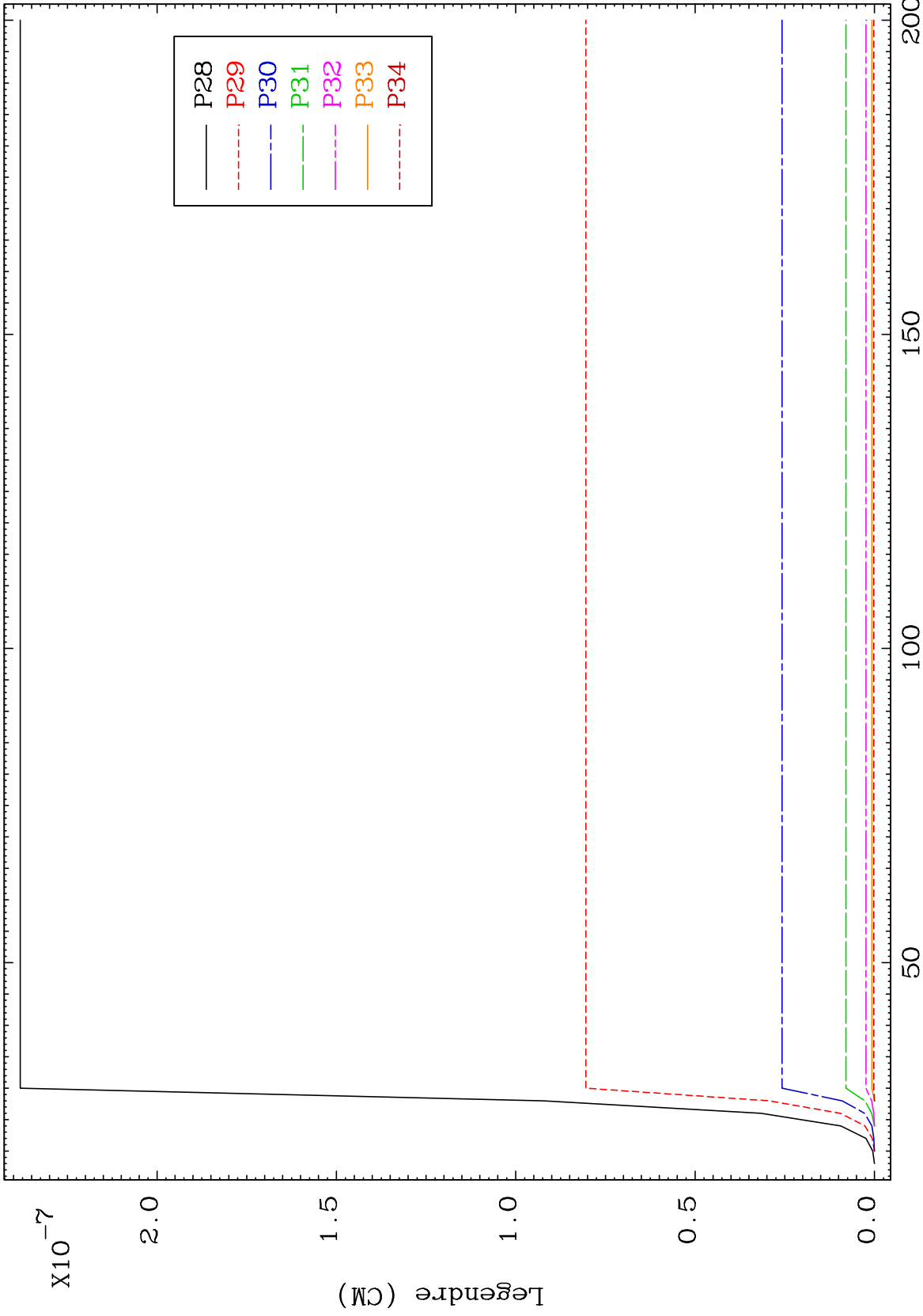


Legendre (CM) X10⁻⁴ Incident Energy (MeV) 40-Zr-87

MAT 4016

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

40-Zr-87

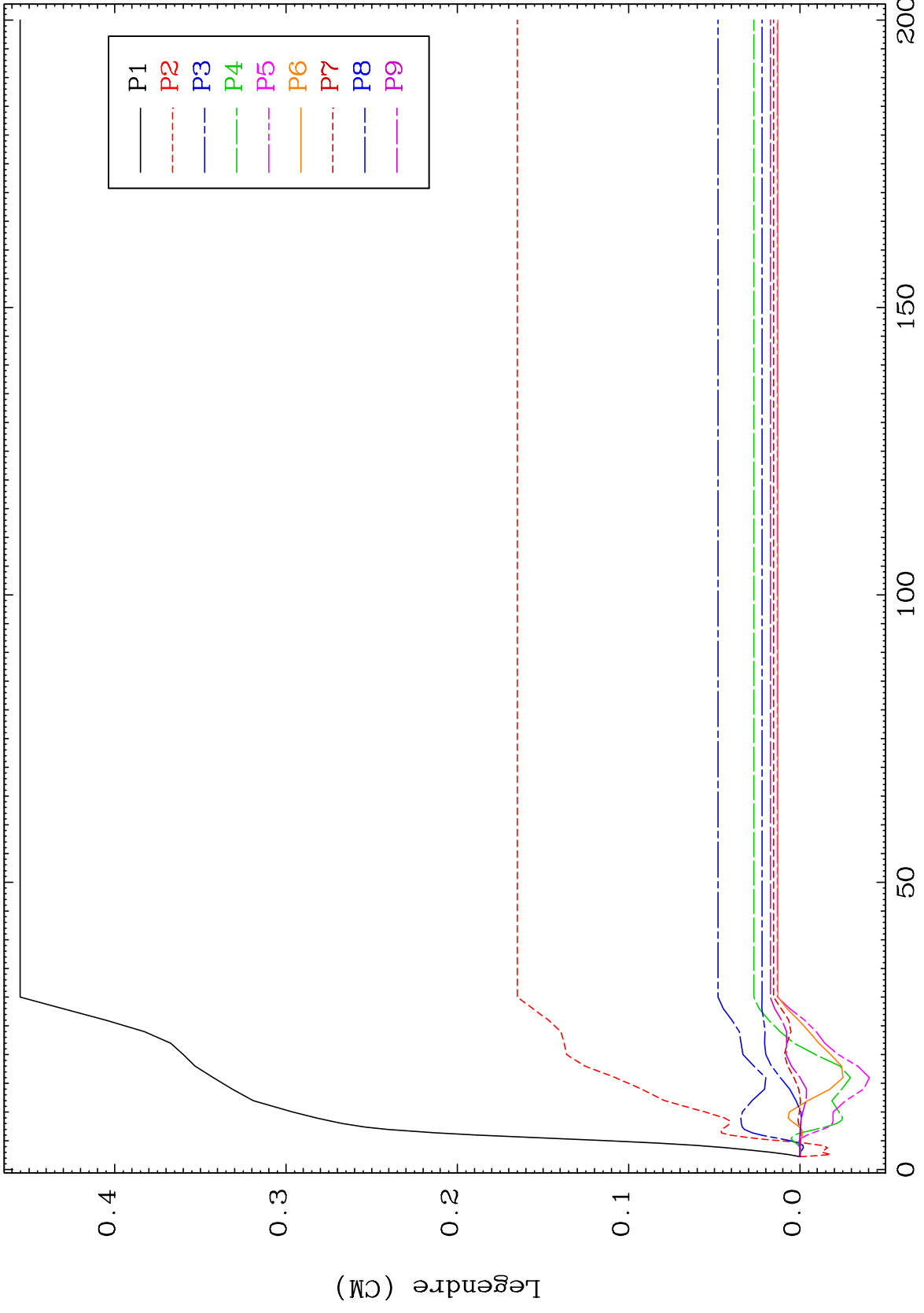


126

Incident Energy (MeV)

40-Zr-87

MAT 4016 MT= 78 (n,n') Level Legendre Coefficients 40-Zr-87

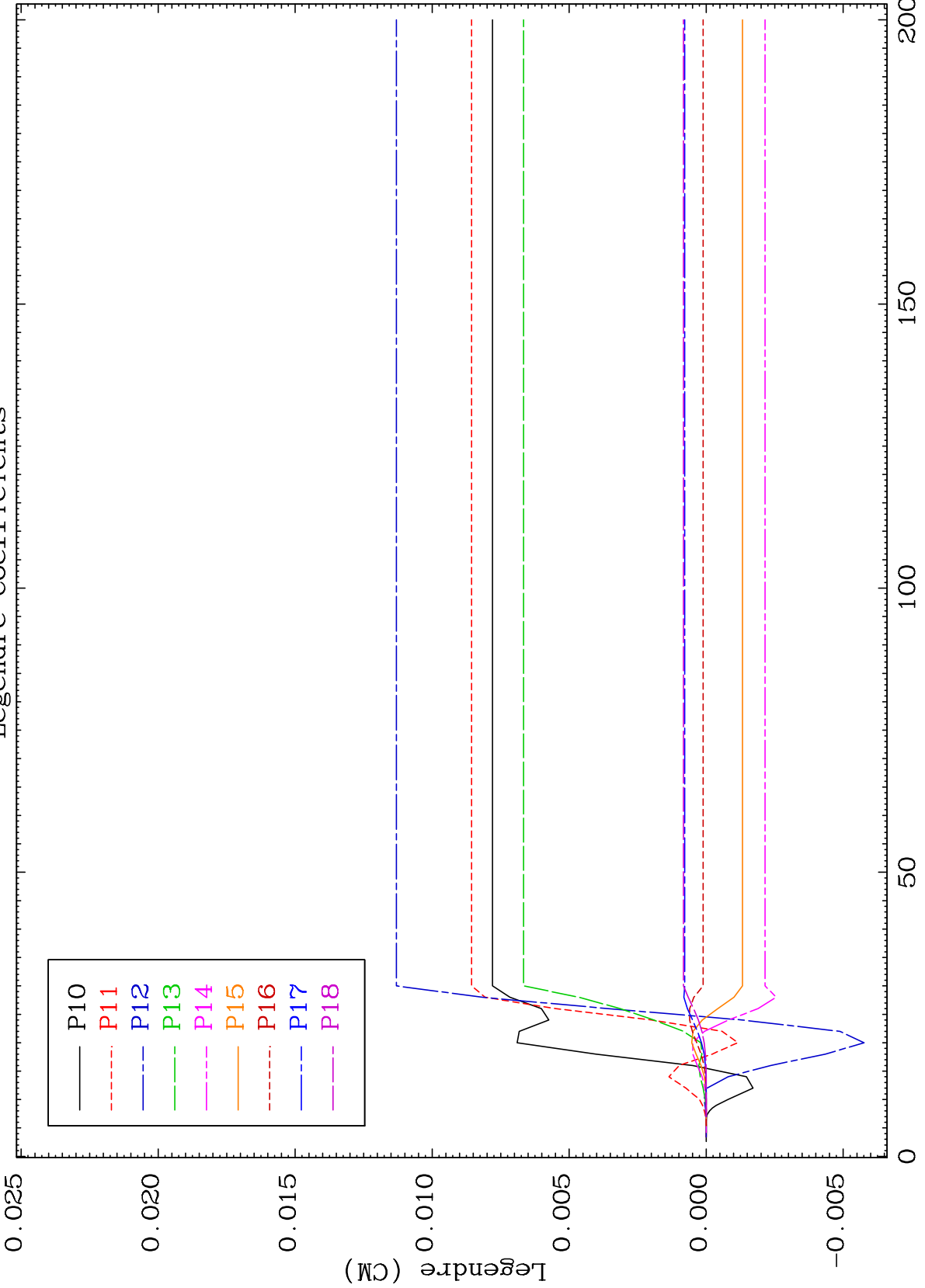


127 40-Zr-87

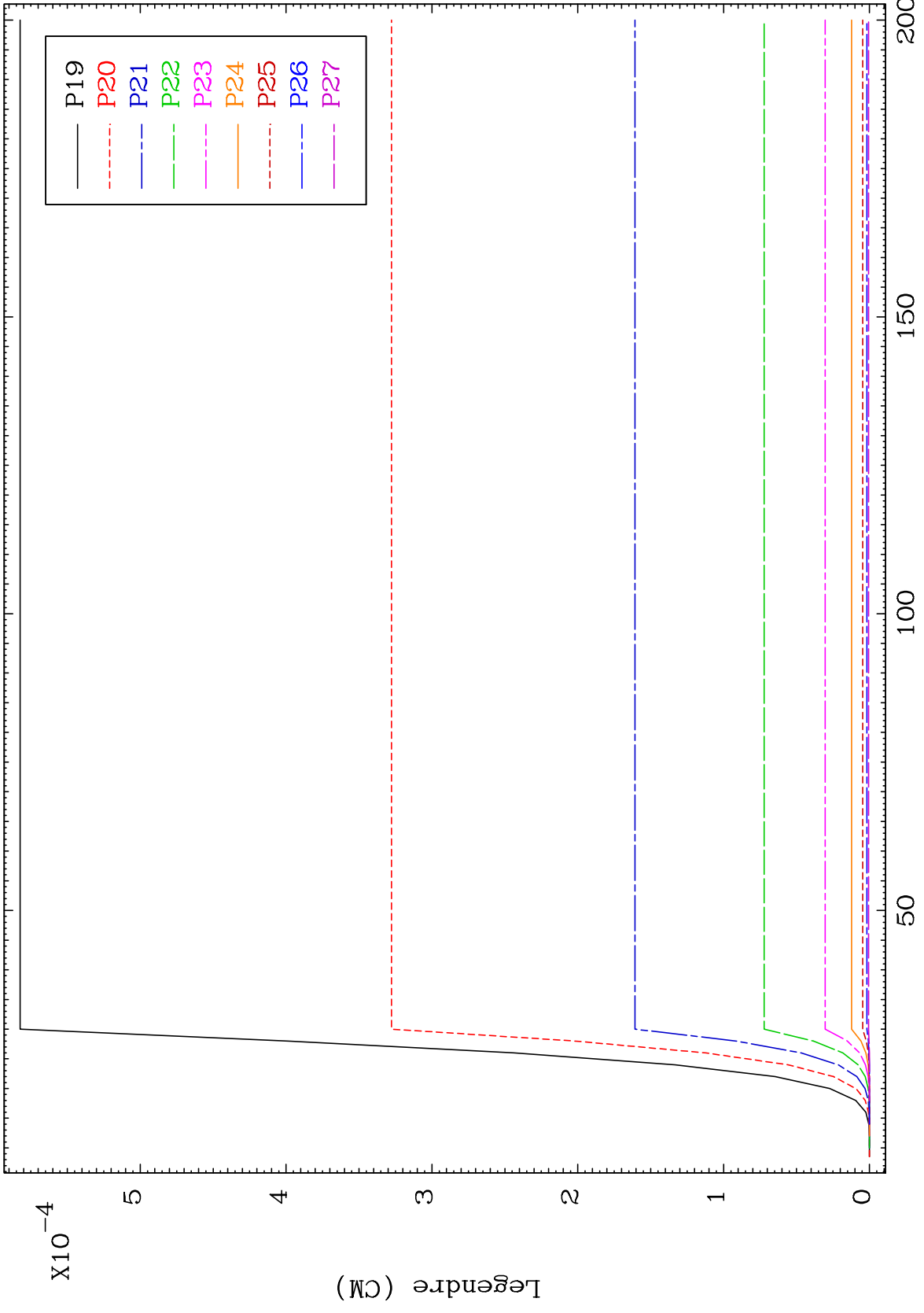
MAT 4016 MT= 78 (n,n') Level Legendre Coefficients

40-Zr-87

40-Zr-87

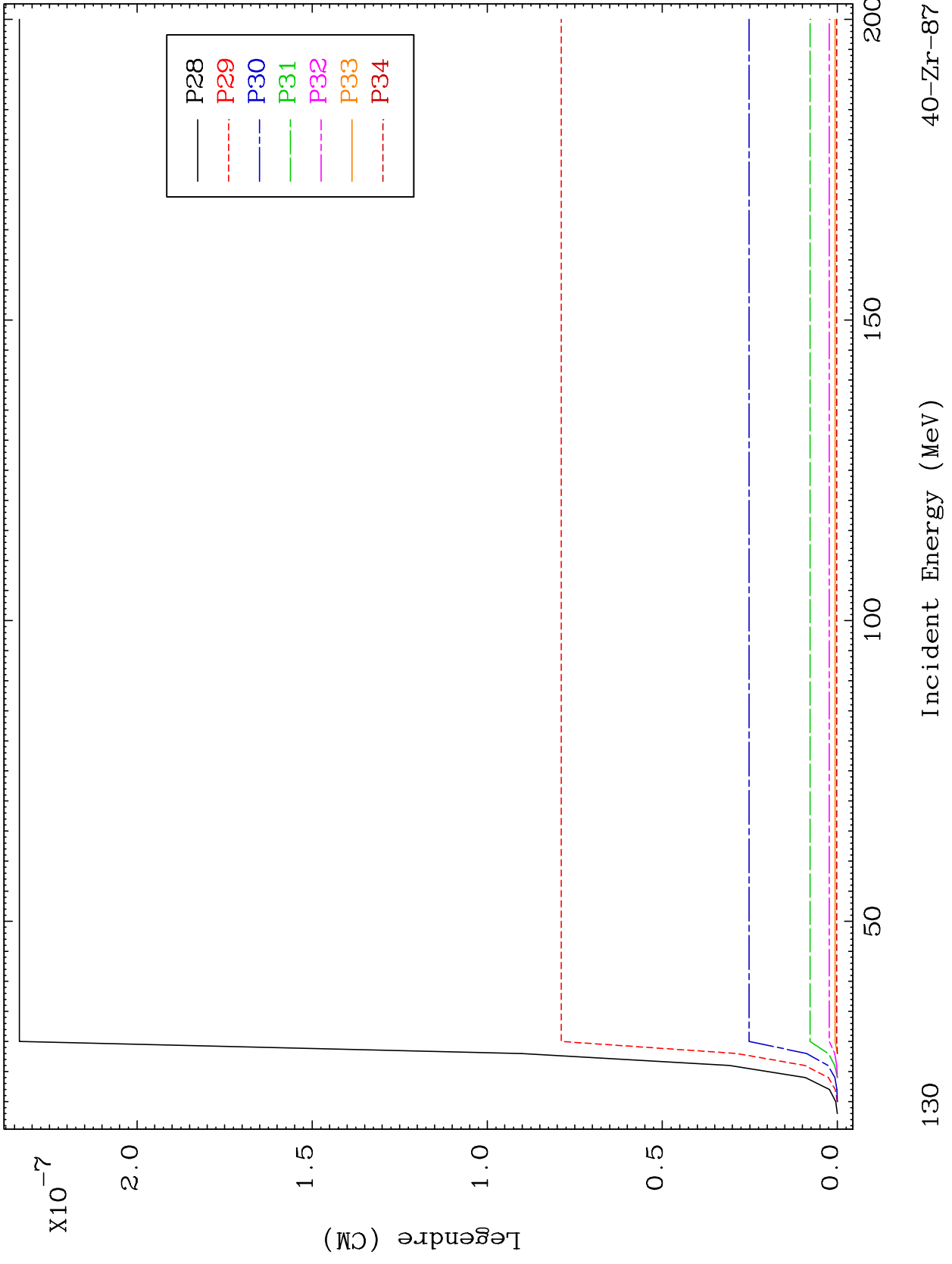


MAT 4016 MT= 78 (n,n') Level Legendre Coefficients 40-Zr-87



129 40-Zr-87

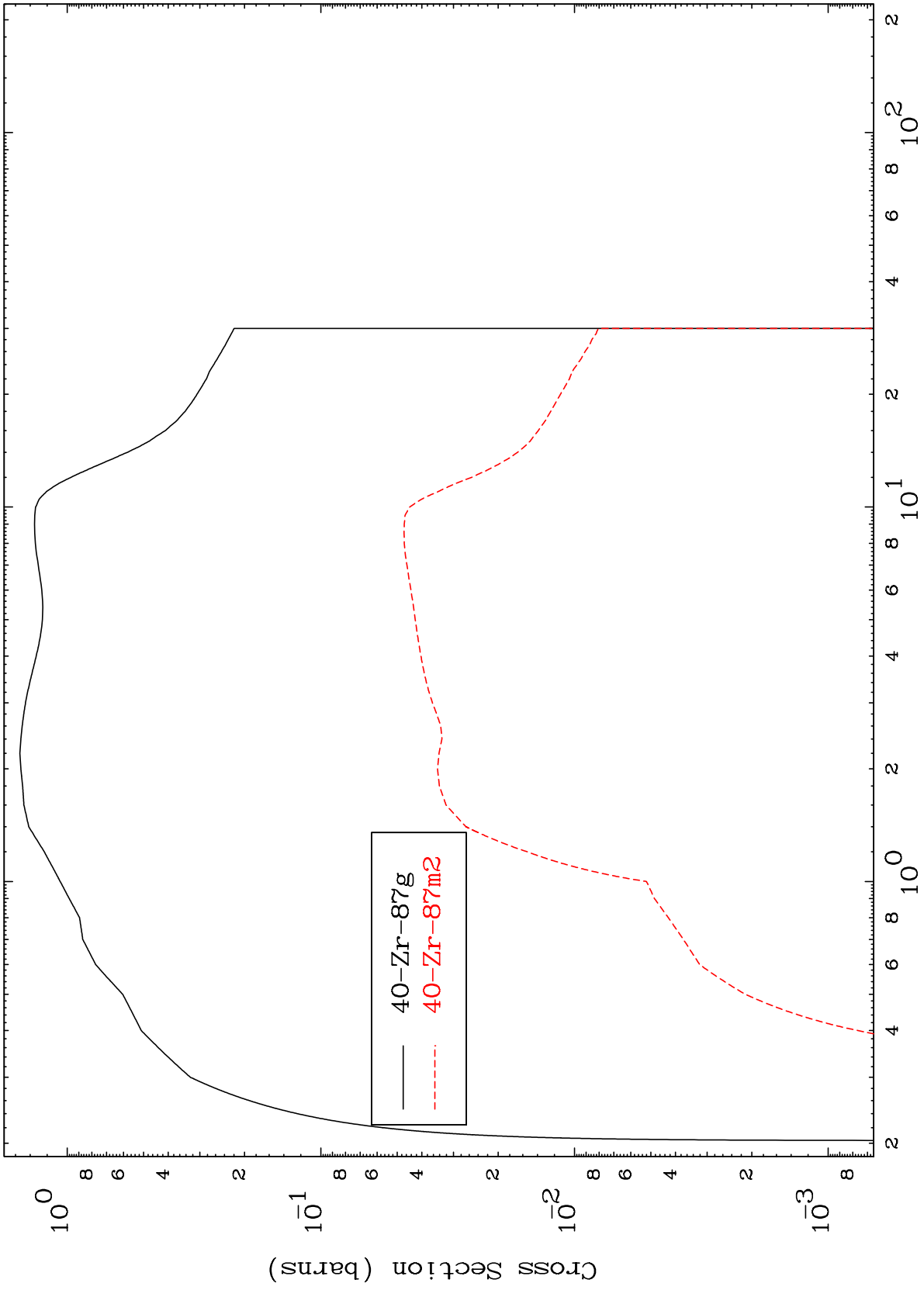
MAT 4016 MT= 78 (n,n') Level Legendre Coefficients 40-Zr-87



MAT 4016

Inelastic
Radionuclide Production Cross Section

40-Zr-87



131

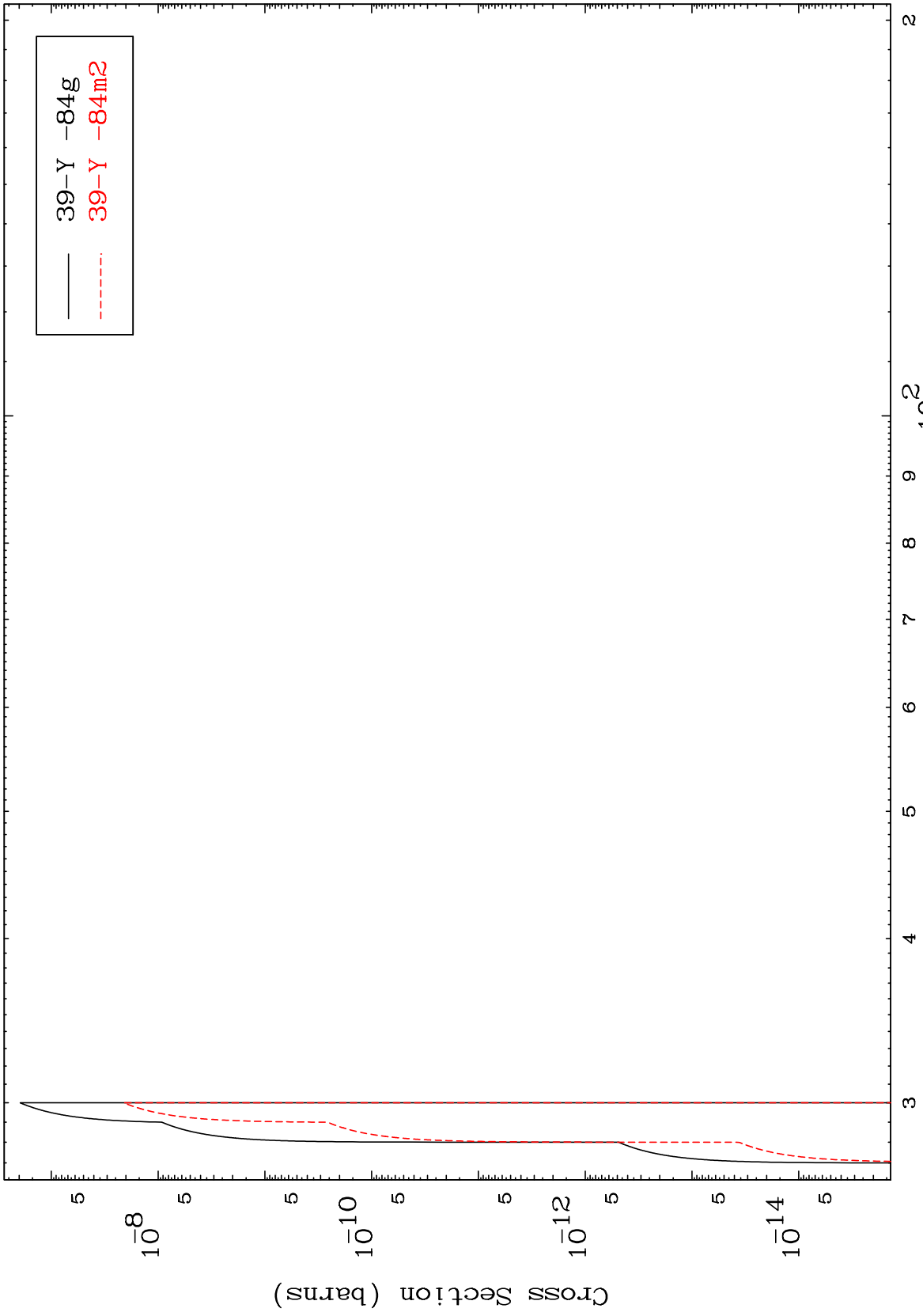
40-Zr-87

MAT 4016

(n,2n) d

40-Zr-87

Radionuclide Production Cross Section



132

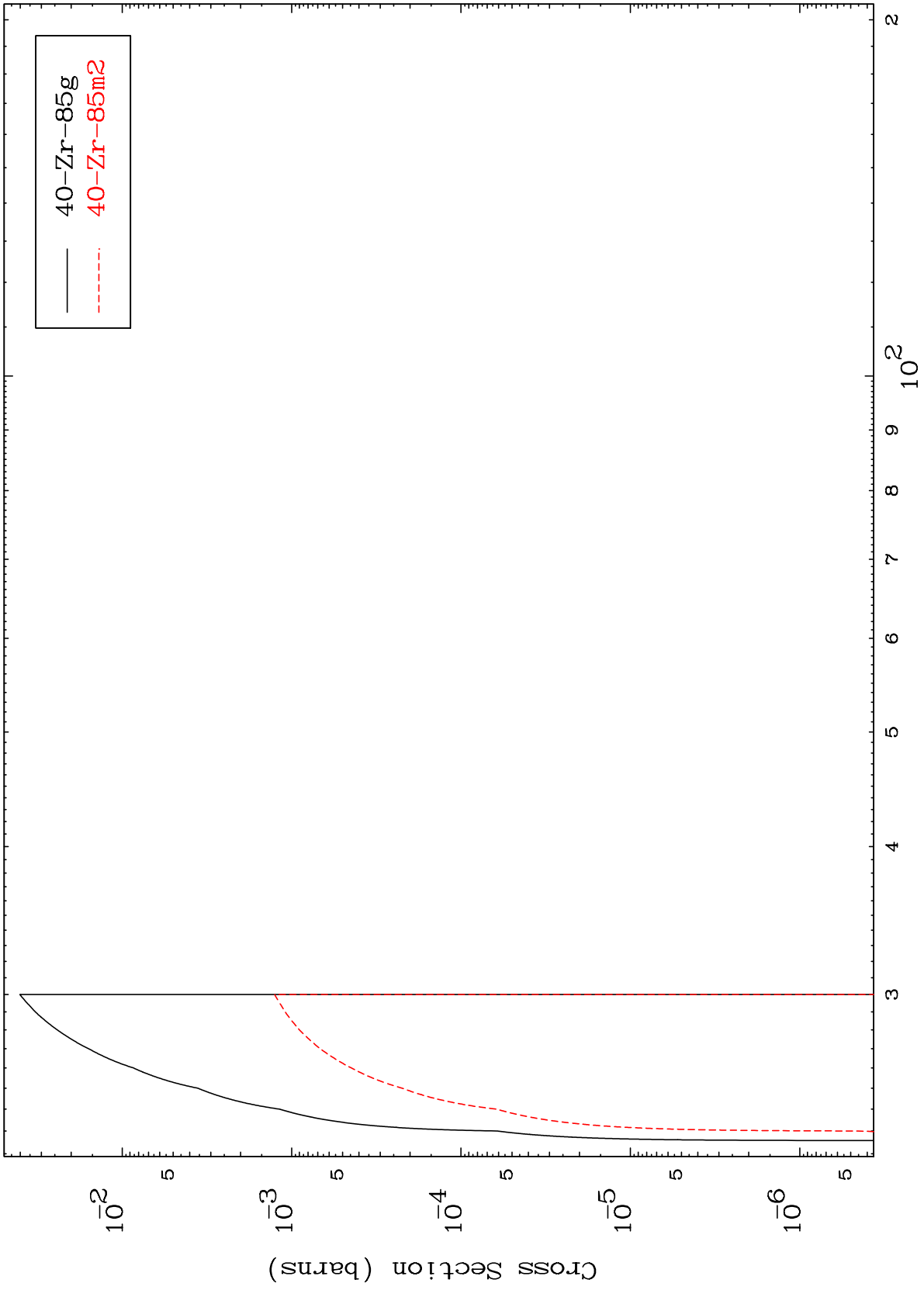
Incident Energy (MeV)

40-Zr-87

MAT 4016

40-Zr-87

(n,3n)
Radionuclide Production Cross Section



133

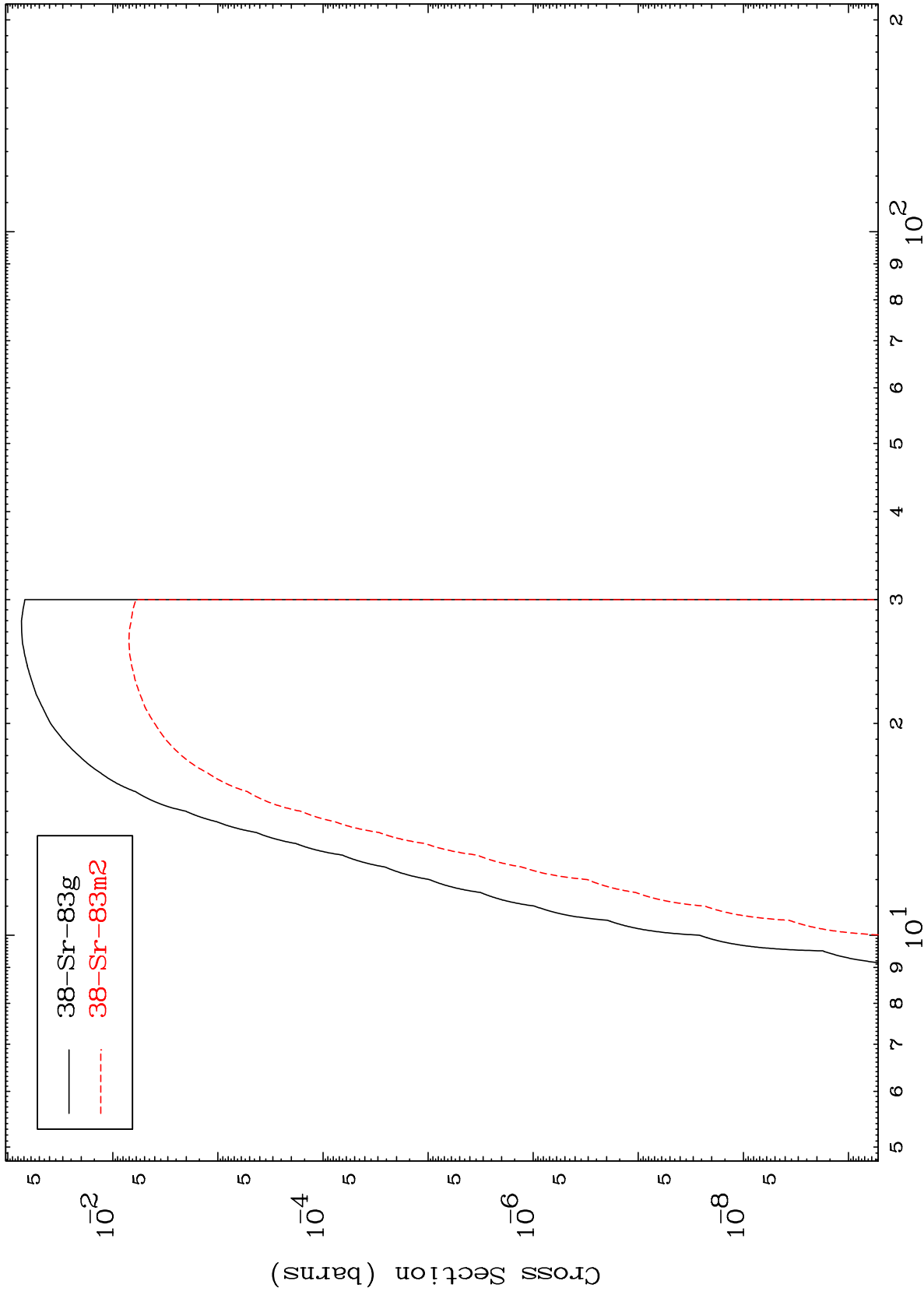
40-Zr-87

MAT 4016

(n,n') α

40-Zr-87

Radionuclide Production Cross Section



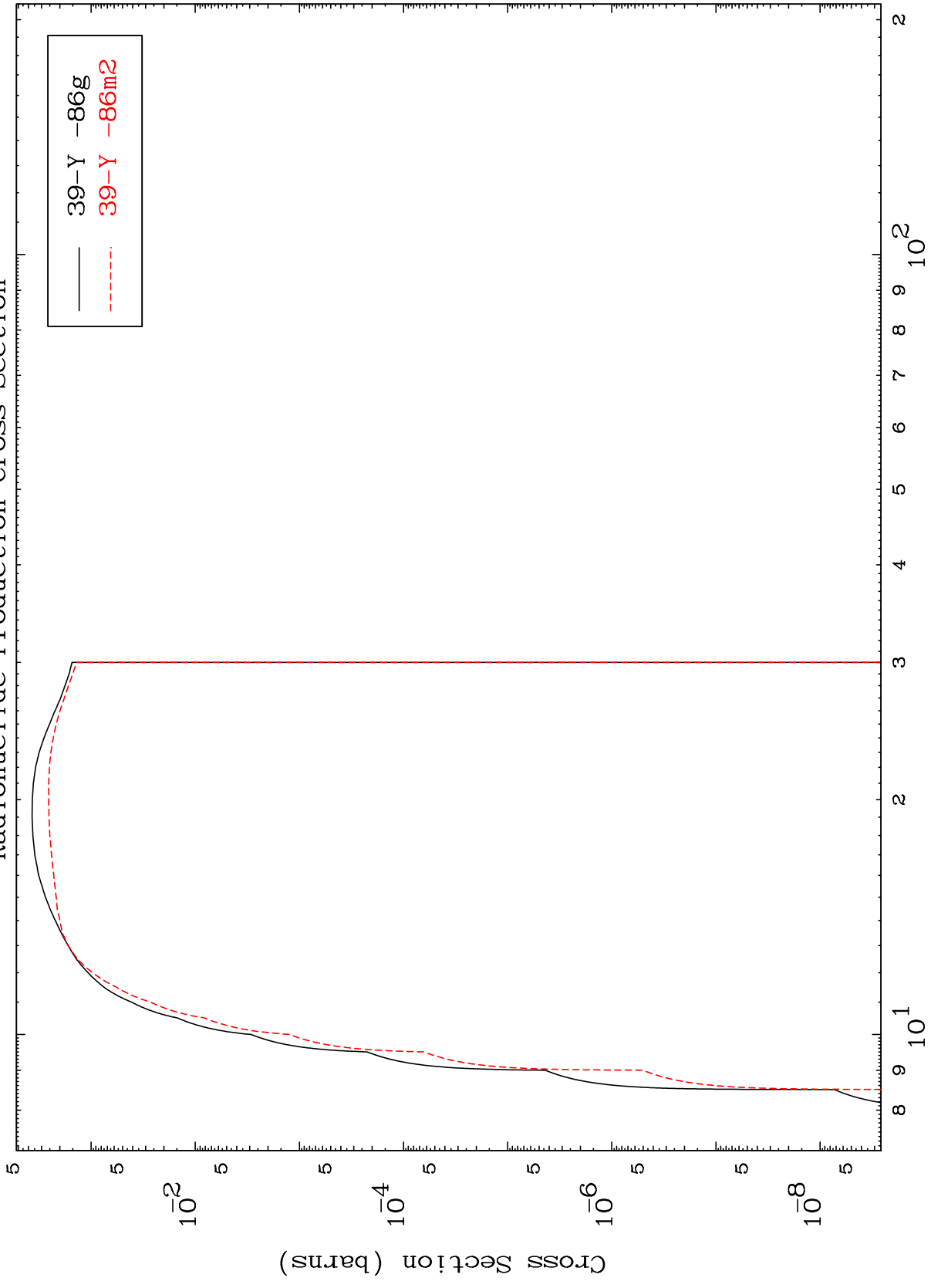
134

MAT 4016

(n,n') p

40-Zr-87

Radionuclide Production Cross Section



135

Incident Energy (MeV)

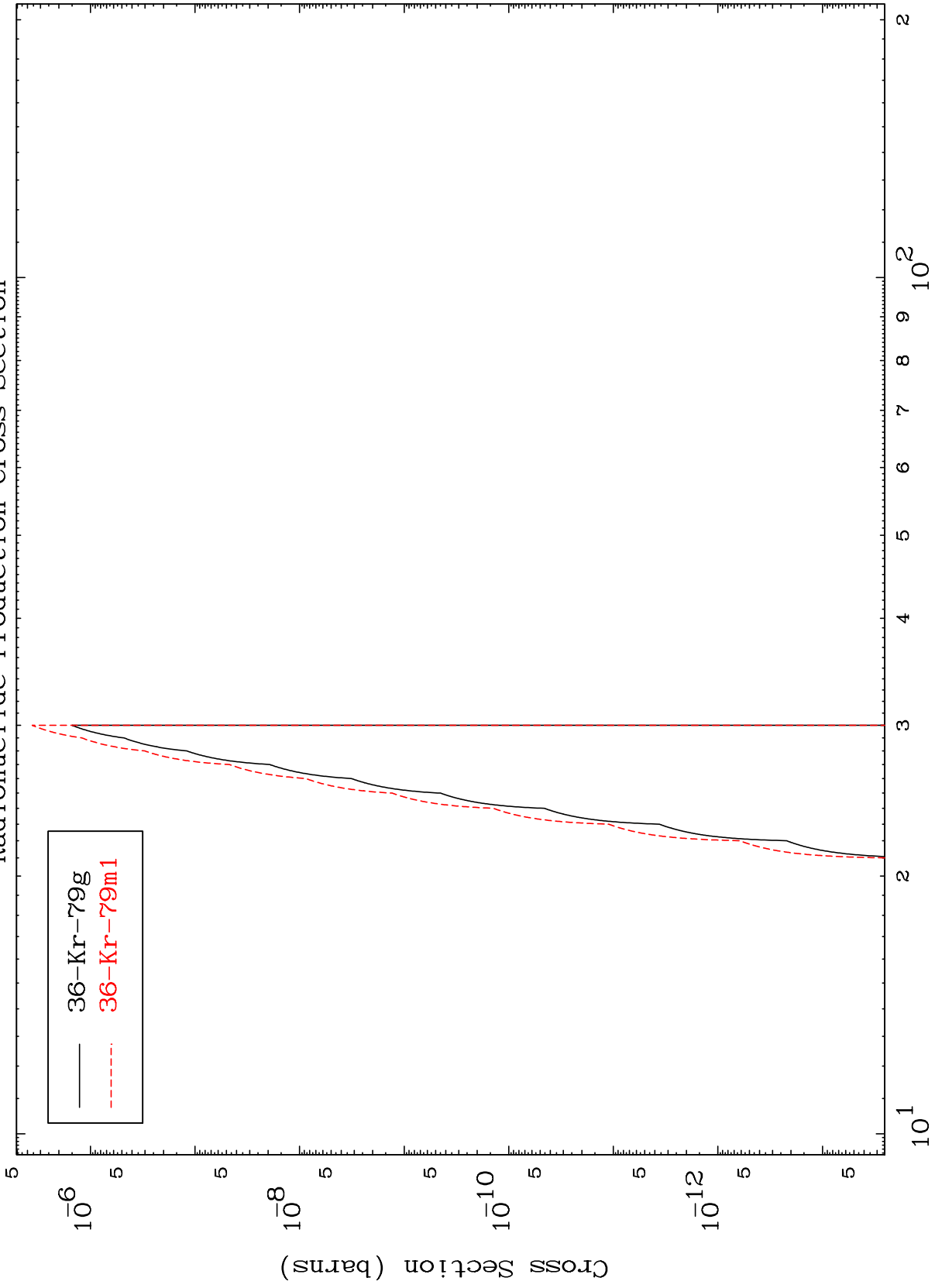
40-Zr-87

MAT 4016

(n,n') 2 α

40-Zr-87

Radionuclide Production Cross Section



136

Incident Energy (MeV)

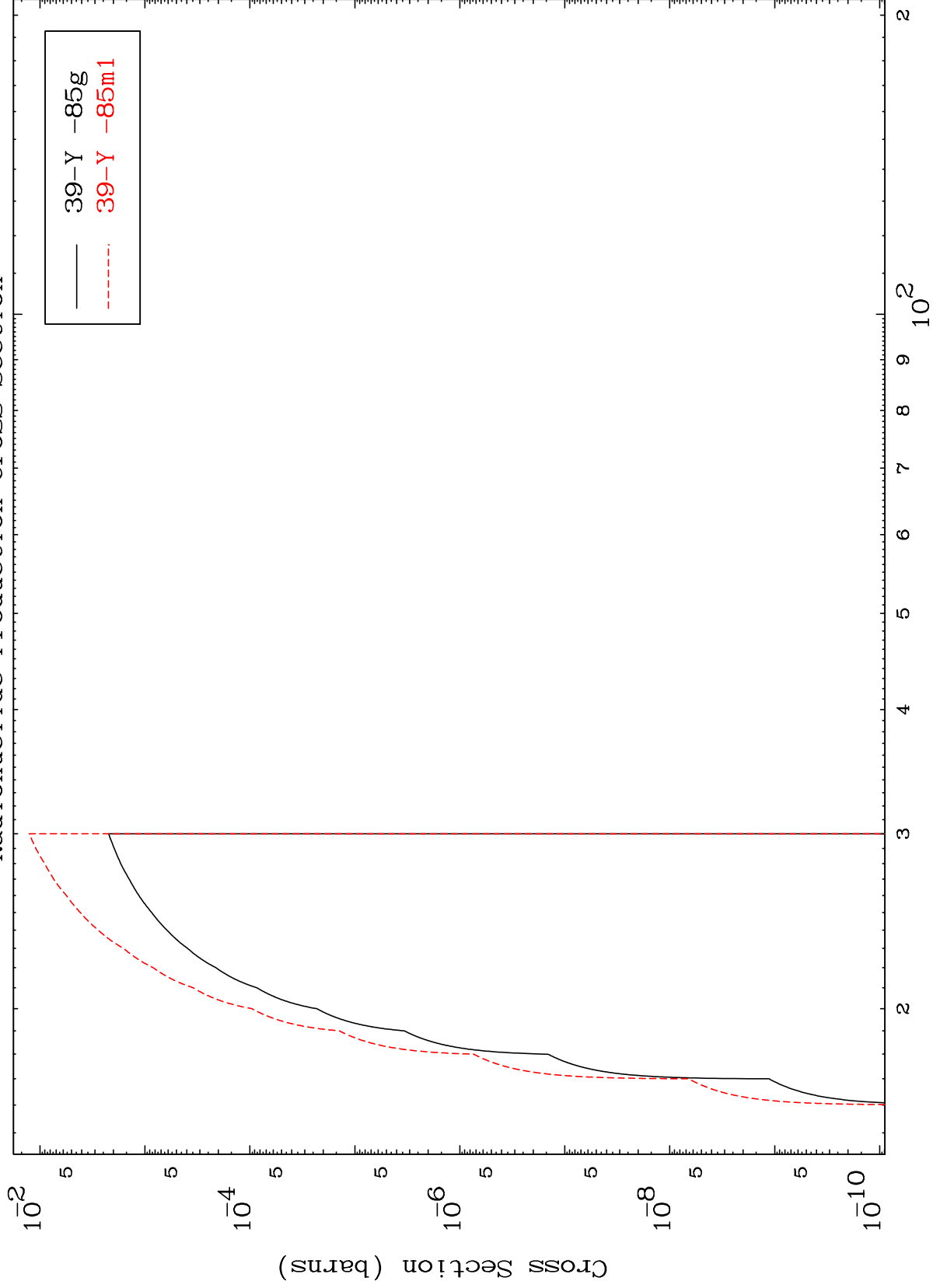
40-Zr-87

MAT 4016

(n,n') d

40-Zr-87

Radionuclide Production Cross Section



137

Incident Energy (MeV)

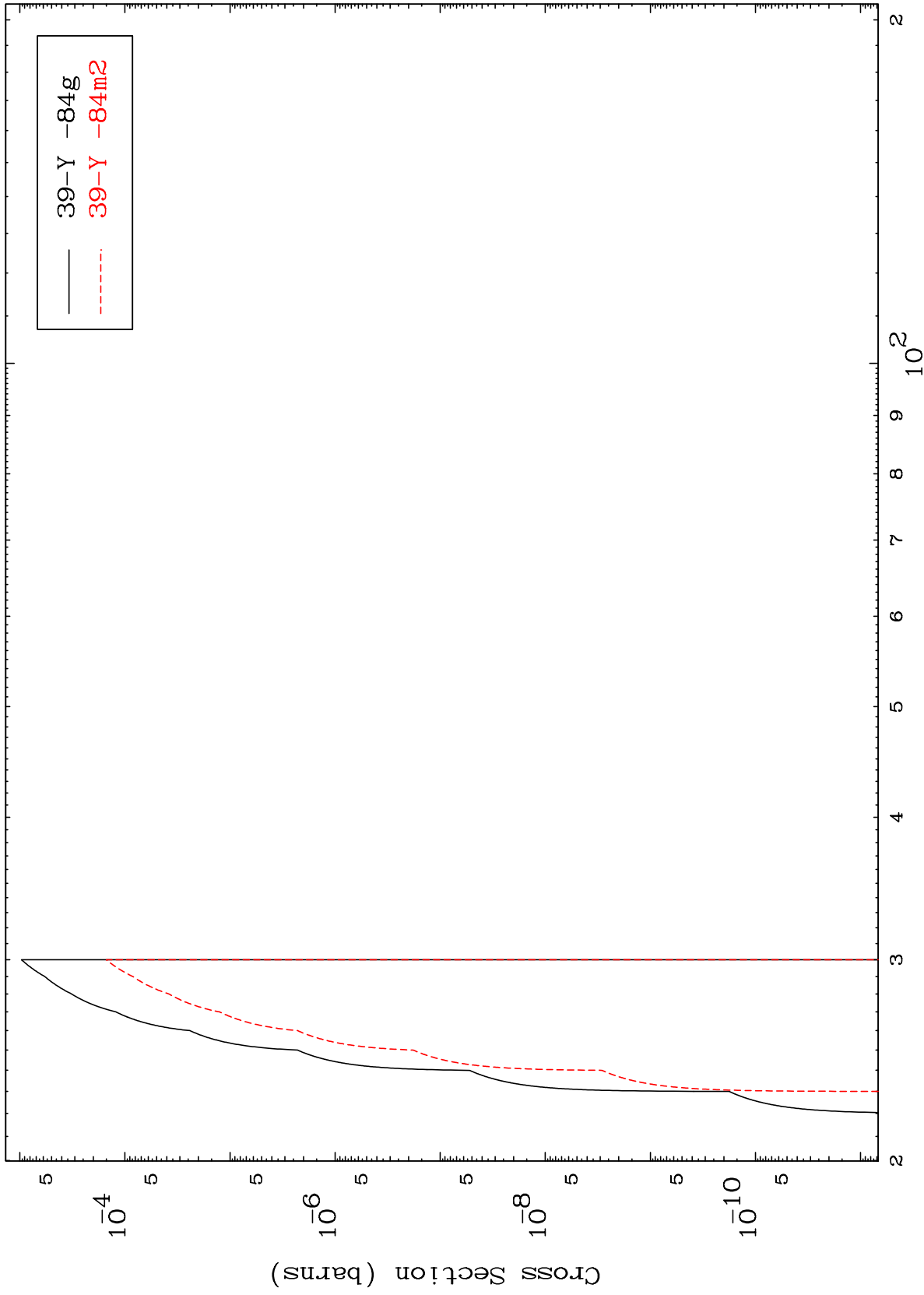
40-Zr-87

MAT 4016

(n,n') t

40-Zr-87

Radionuclide Production Cross Section



138

Incident Energy (MeV)

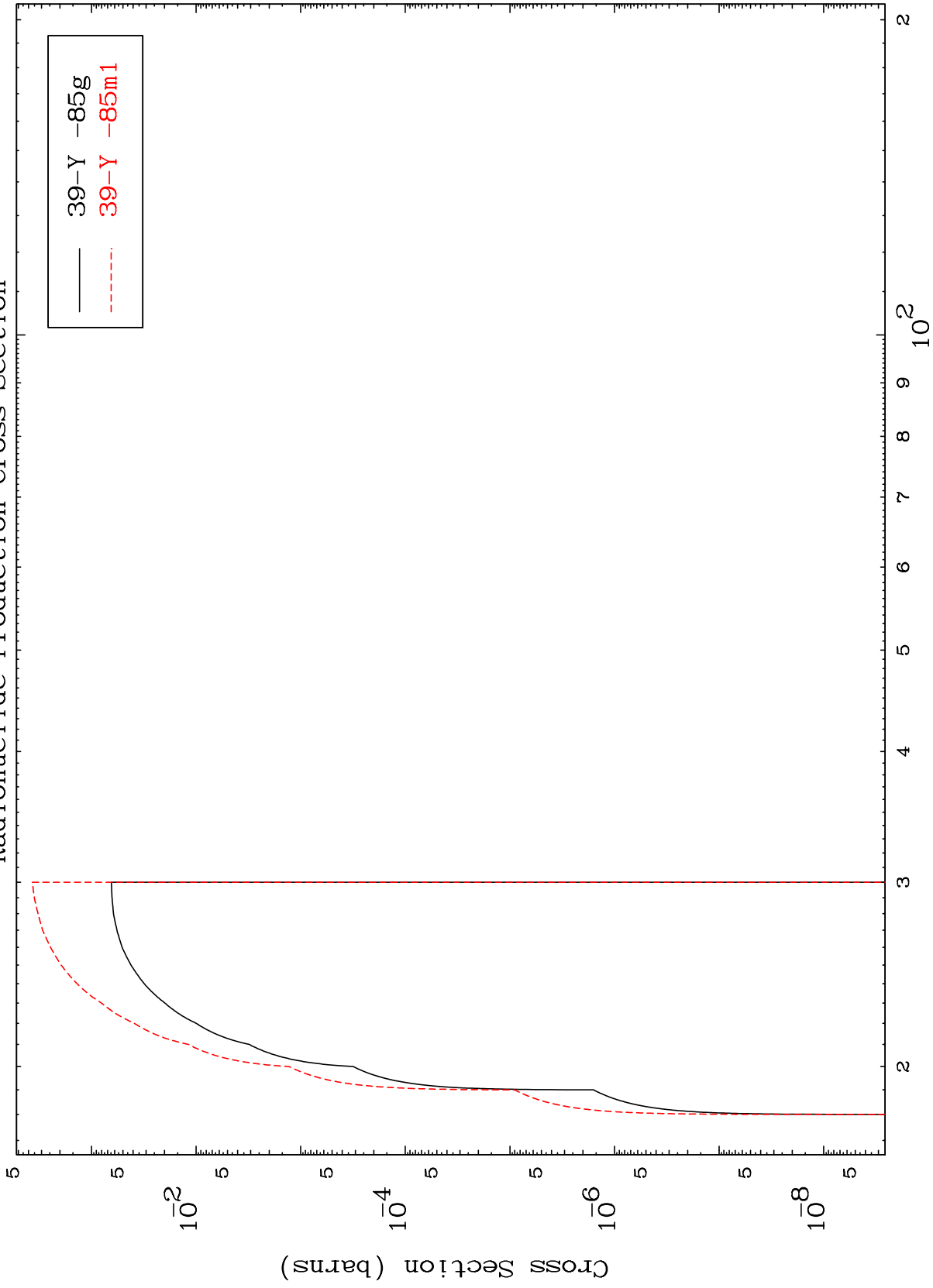
40-Zr-87

MAT 4016

(n,2n) p

40-Zr-87

Radionuclide Production Cross Section



139

Incident Energy (MeV)

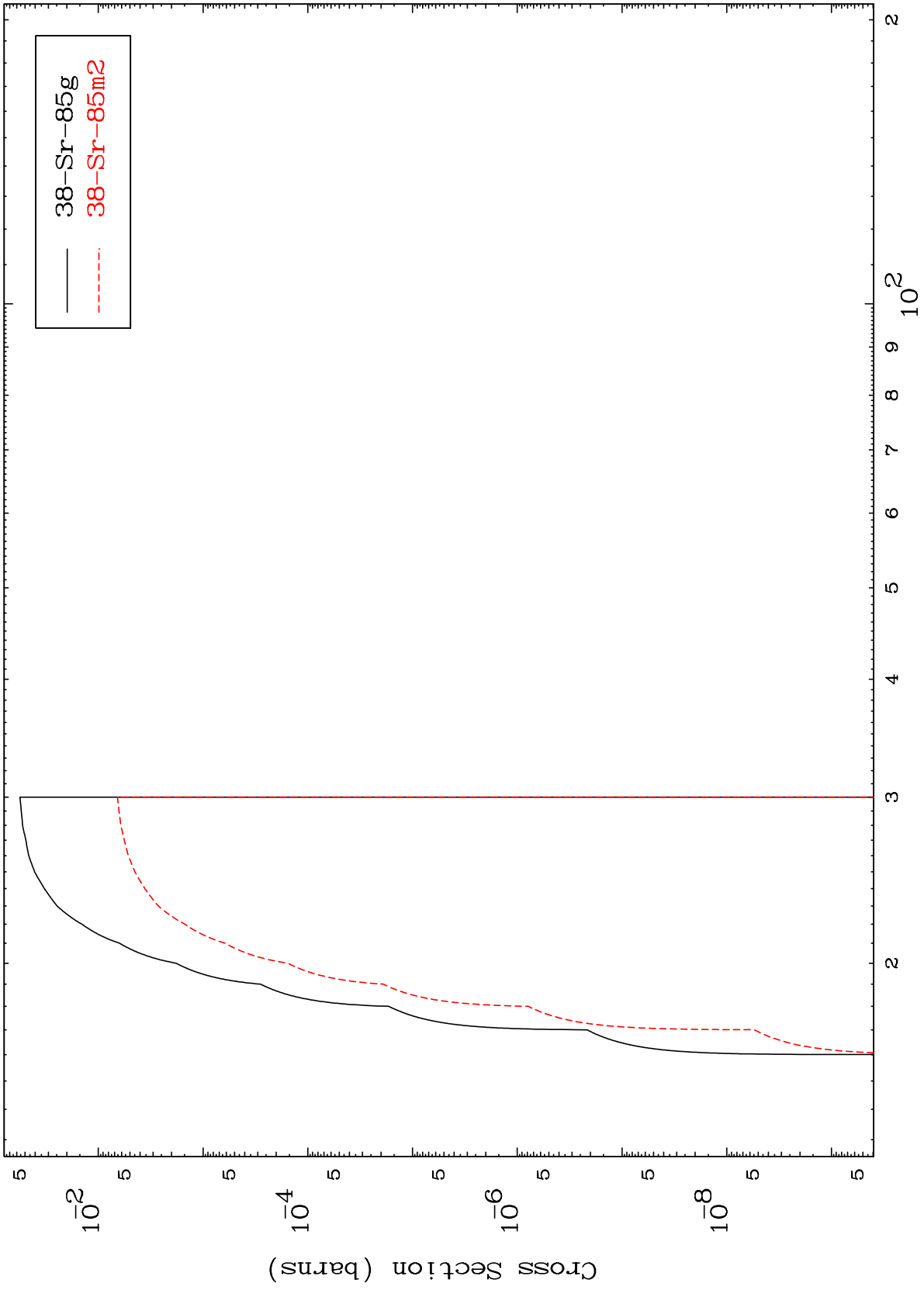
40-Zr-87

MAT 4016

(n,2n) p

40-Zr-87

Radionuclide Production Cross Section



140

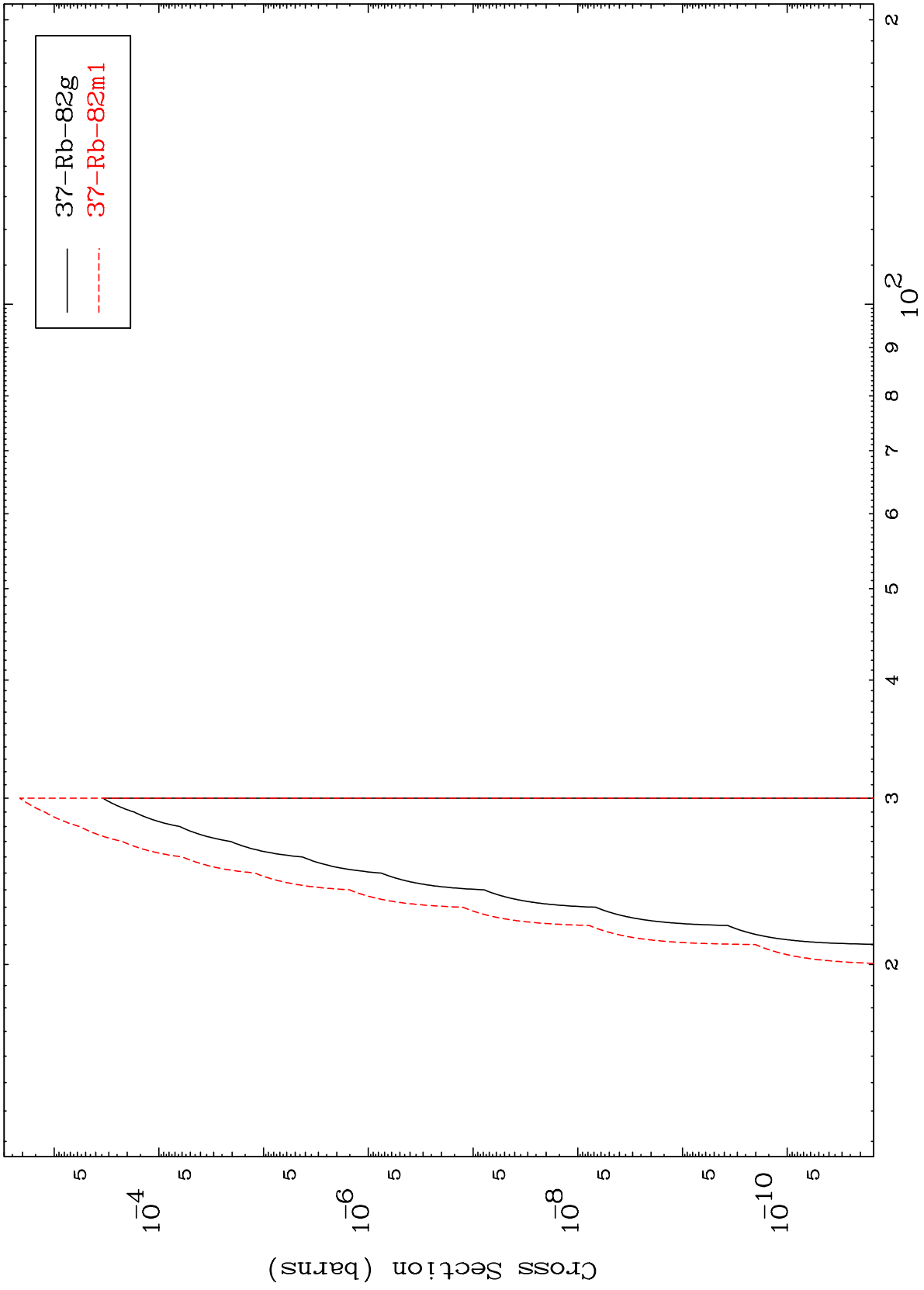
Incident Energy (MeV)

40-Zr-87

MAT 4016

40-Zr-87

(n, n') p α
Radionuclide Production Cross Section



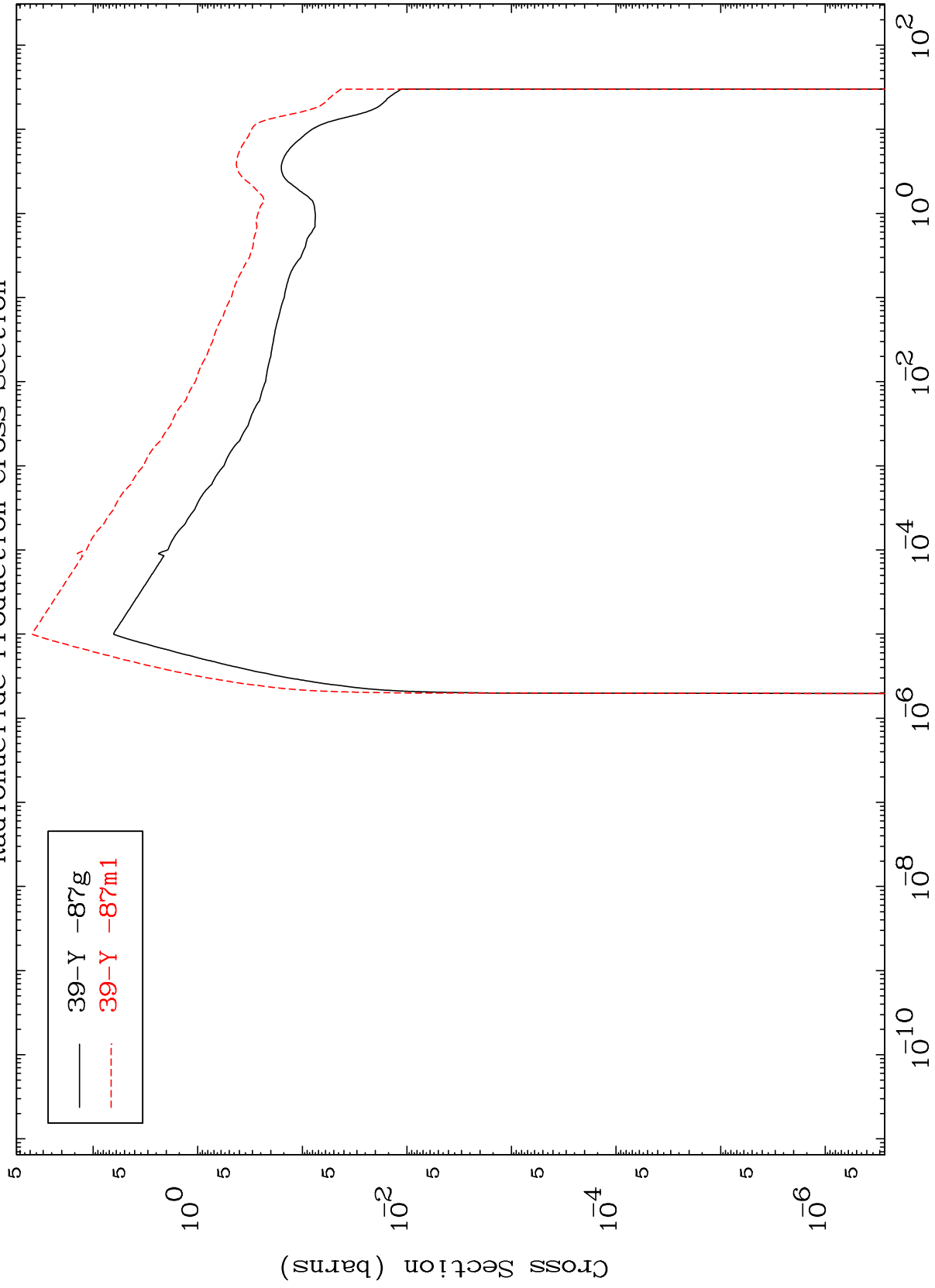
141

40-Zr-87

MAT 4016

40-Zr-87

Radionuclide Production Cross Section (n,p)



Legend:
— 39-Y -87g
- - - 39-Y -87m1

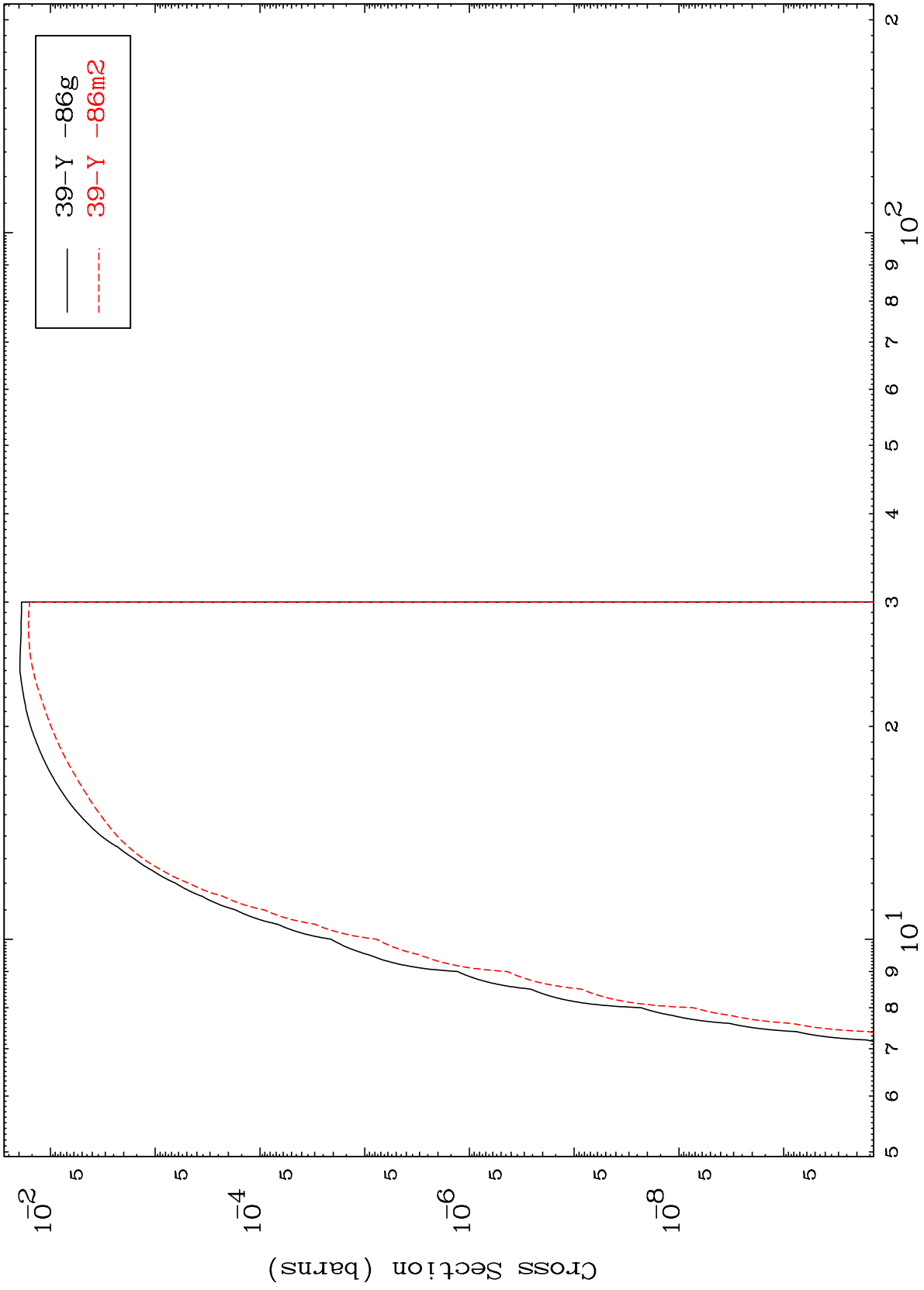
142

40-Zr-87

MAT 4016

40-Zr-87

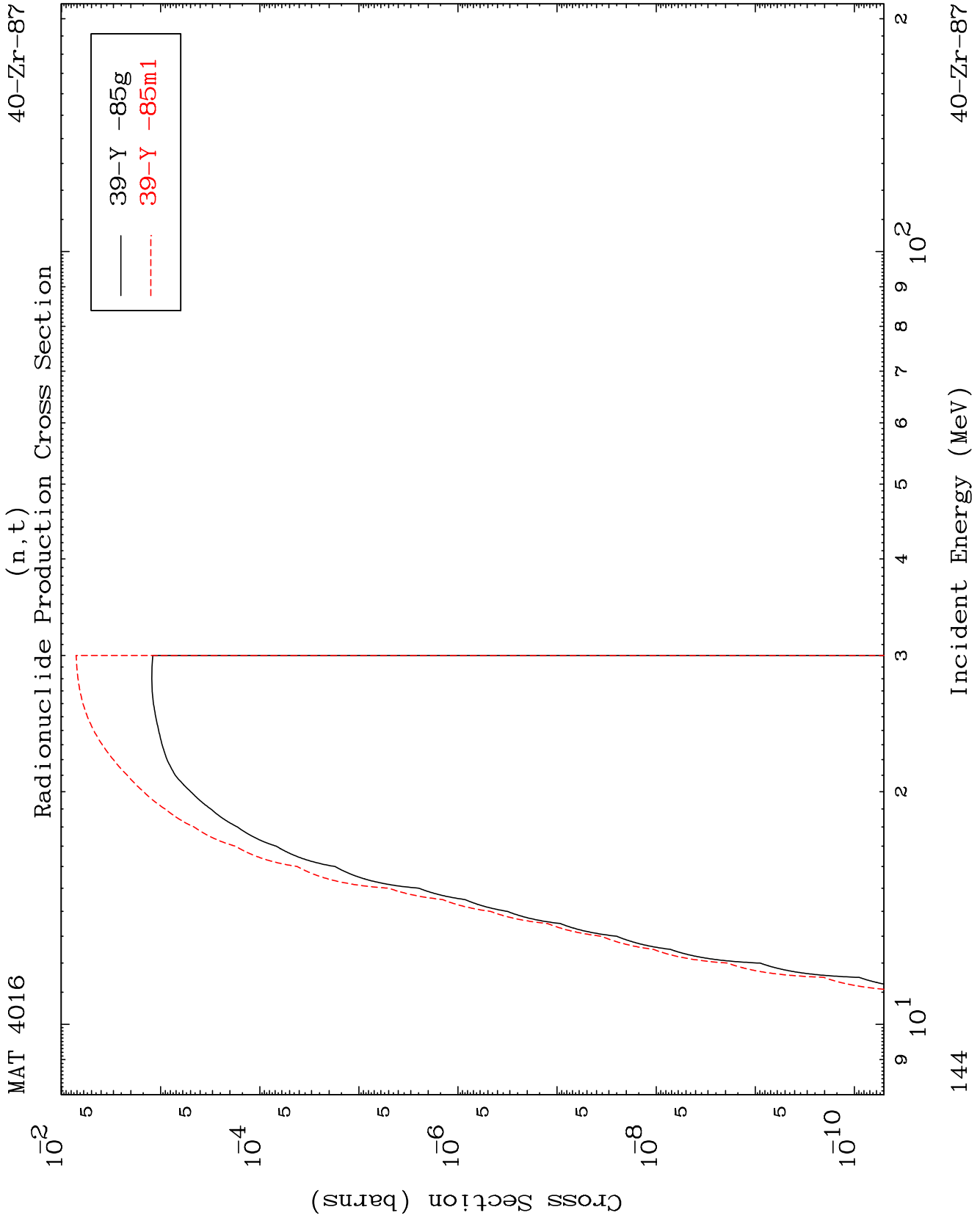
(n,d)
Radionuclide Production Cross Section



143

Incident Energy (MeV)

40-Zr-87

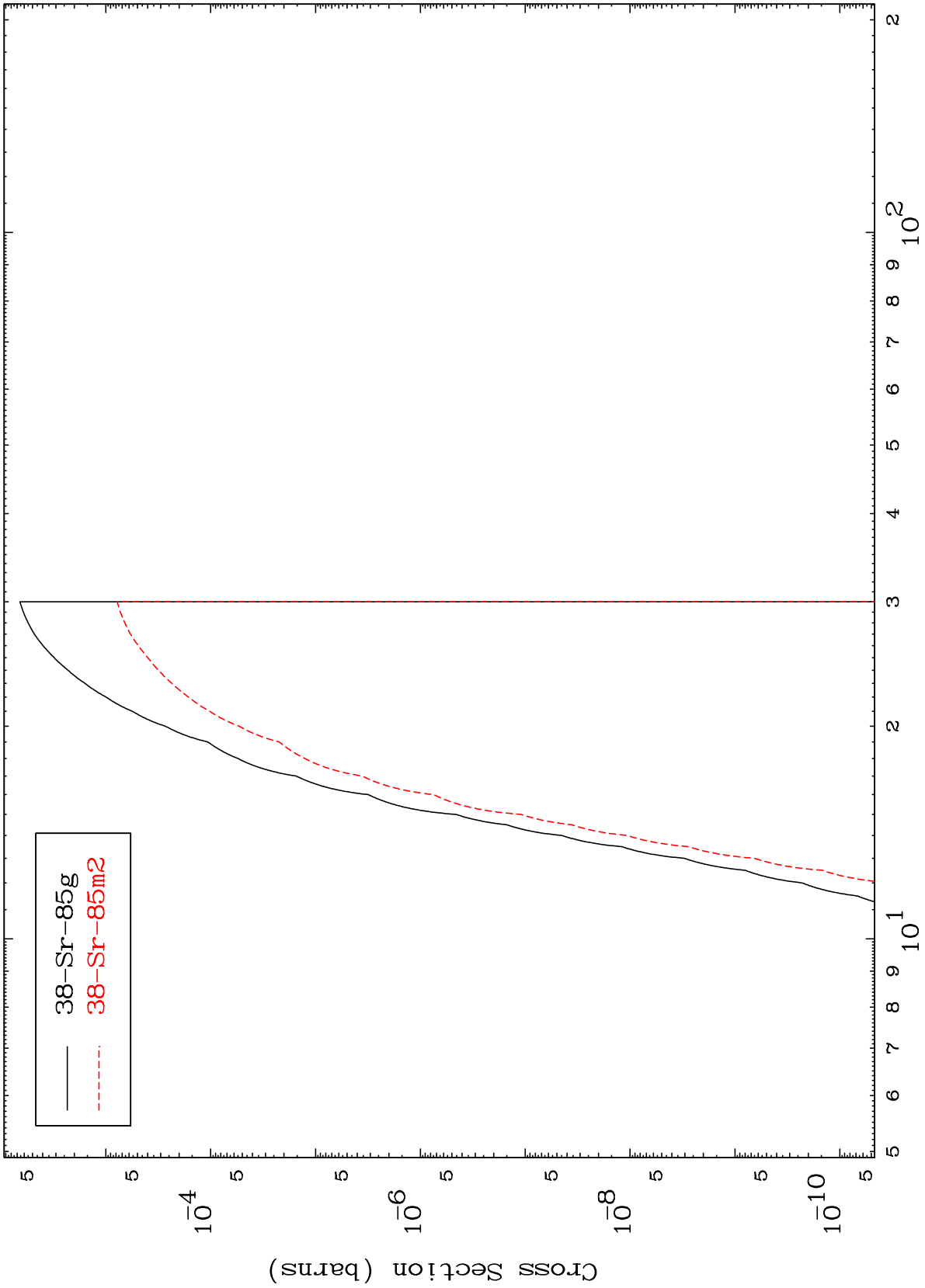


MAT 4016

(n, He-3)

40-Zr-87

Radionuclide Production Cross Section



38-Sr-85g
38-Sr-85m2

145

Incident Energy (MeV)

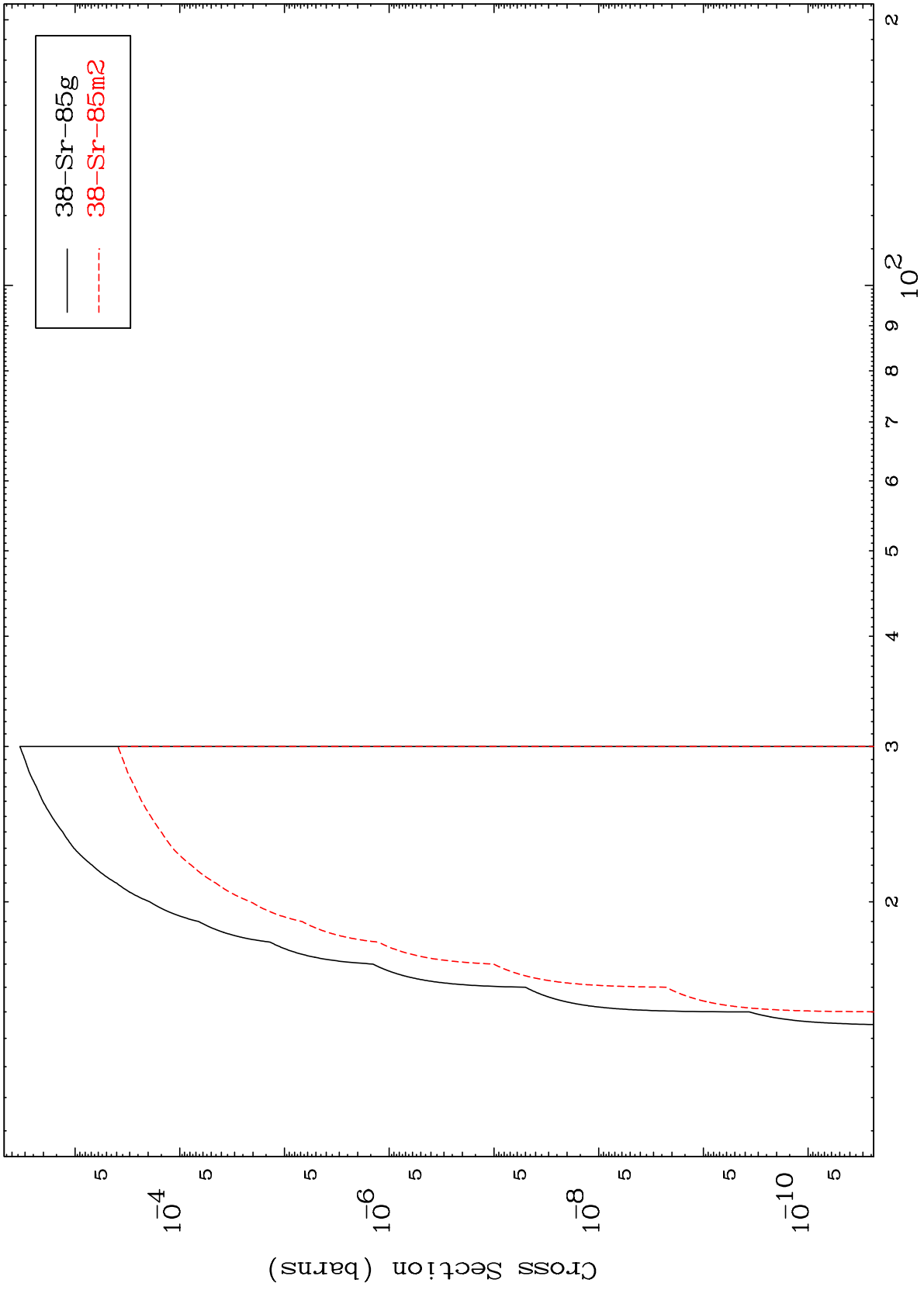
40-Zr-87

MAT 4016

(n,p) d

40-Zr-87

Radionuclide Production Cross Section



146

Incident Energy (MeV)

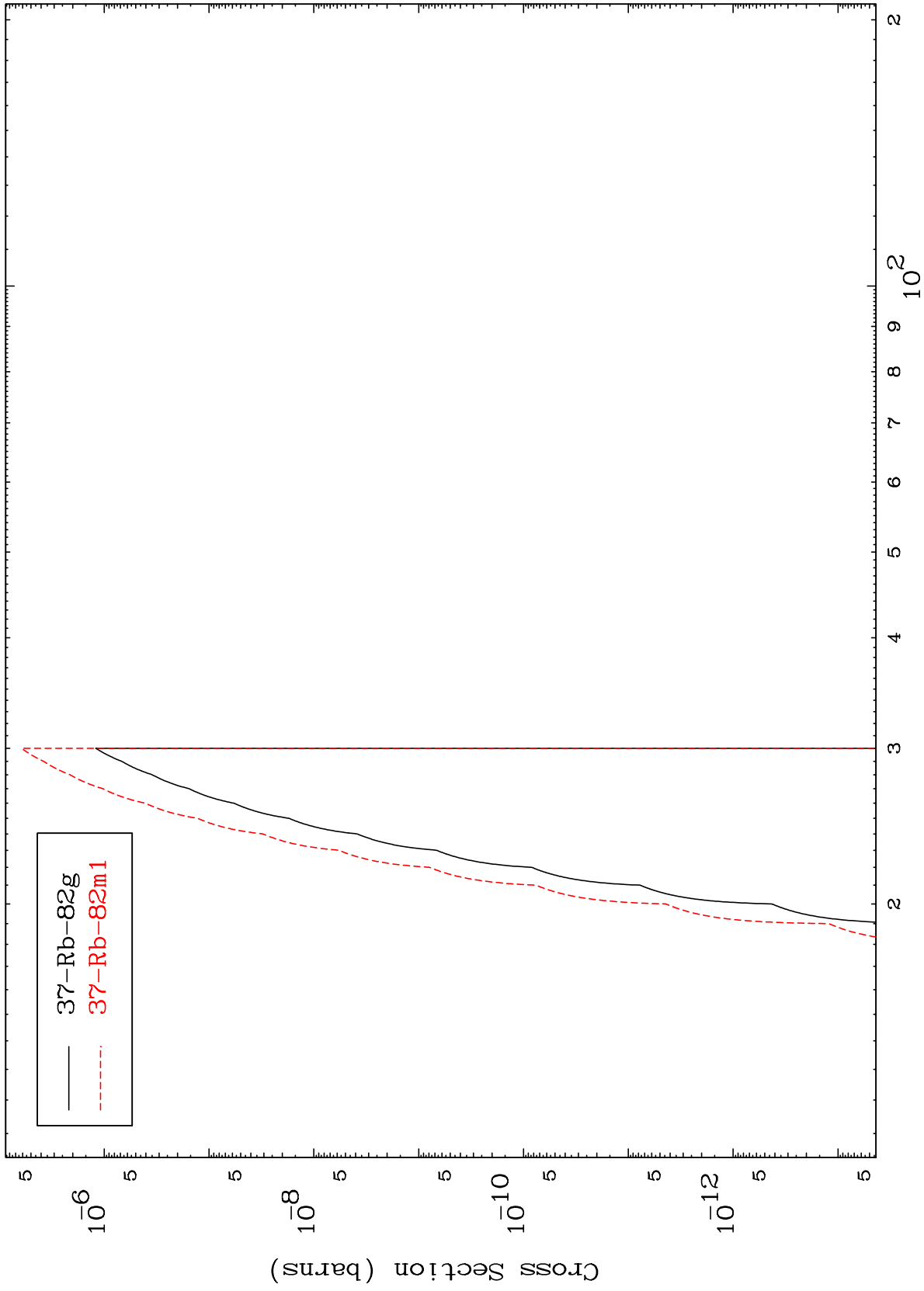
40-Zr-87

MAT 4016

(n,d) α

40-Zr-87

Radionuclide Production Cross Section



147

Incident Energy (MeV)

40-Zr-87