

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

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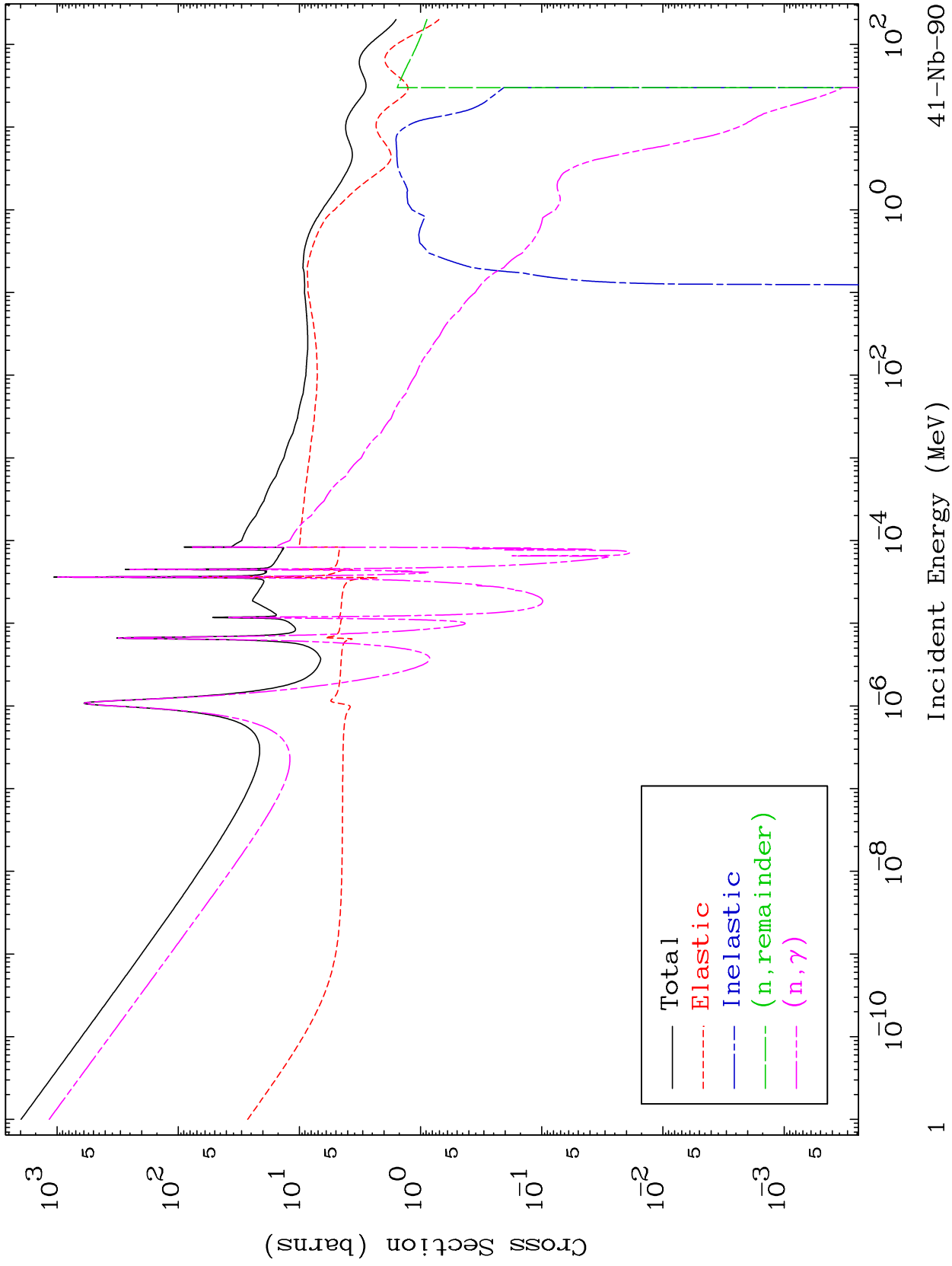
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4116

Major
293 Kelvin Cross Sections

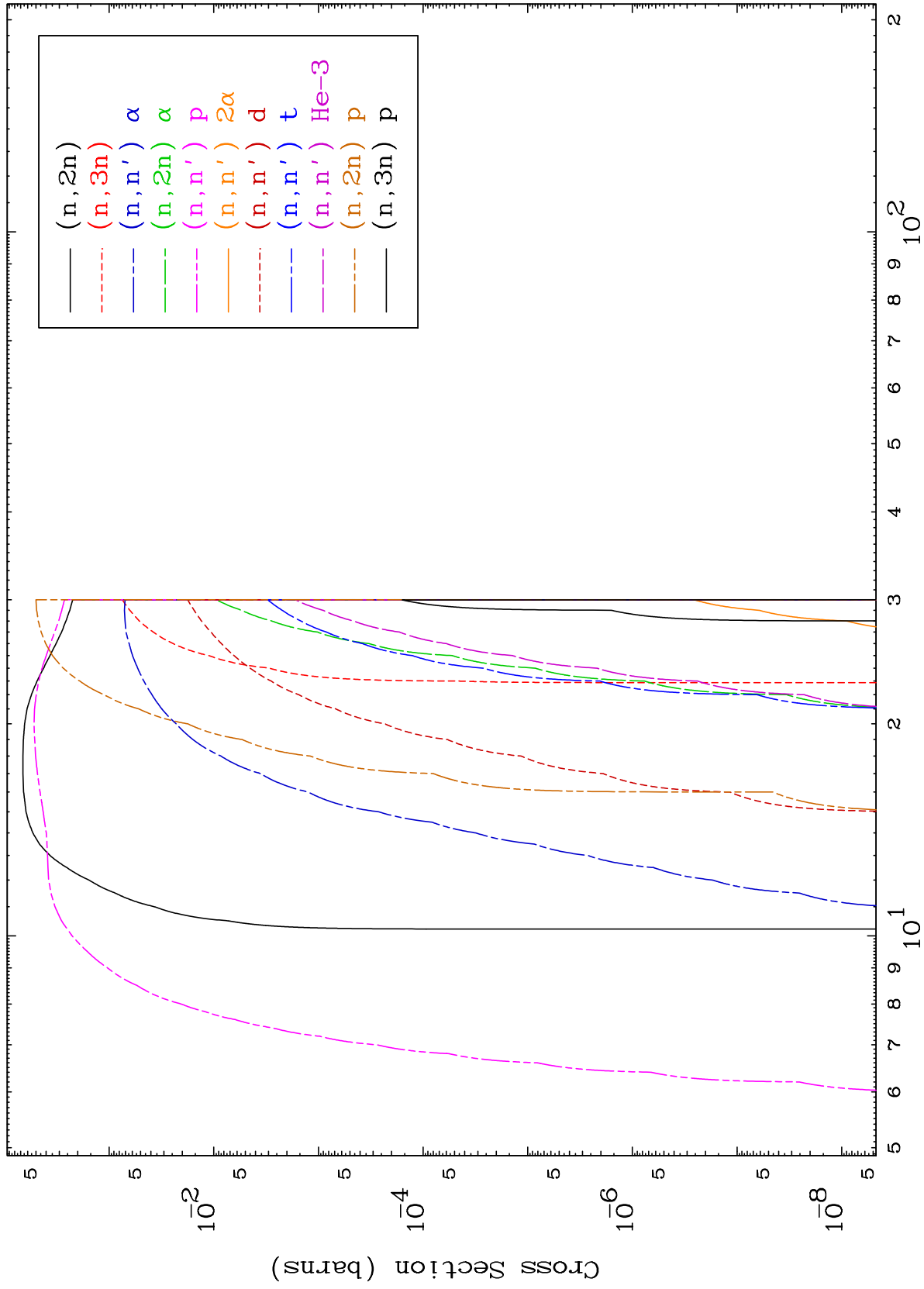
41-Nb-90



MAT 4116

Neutron Production
293 Kelvin Cross Sections

41-Nb-90



2

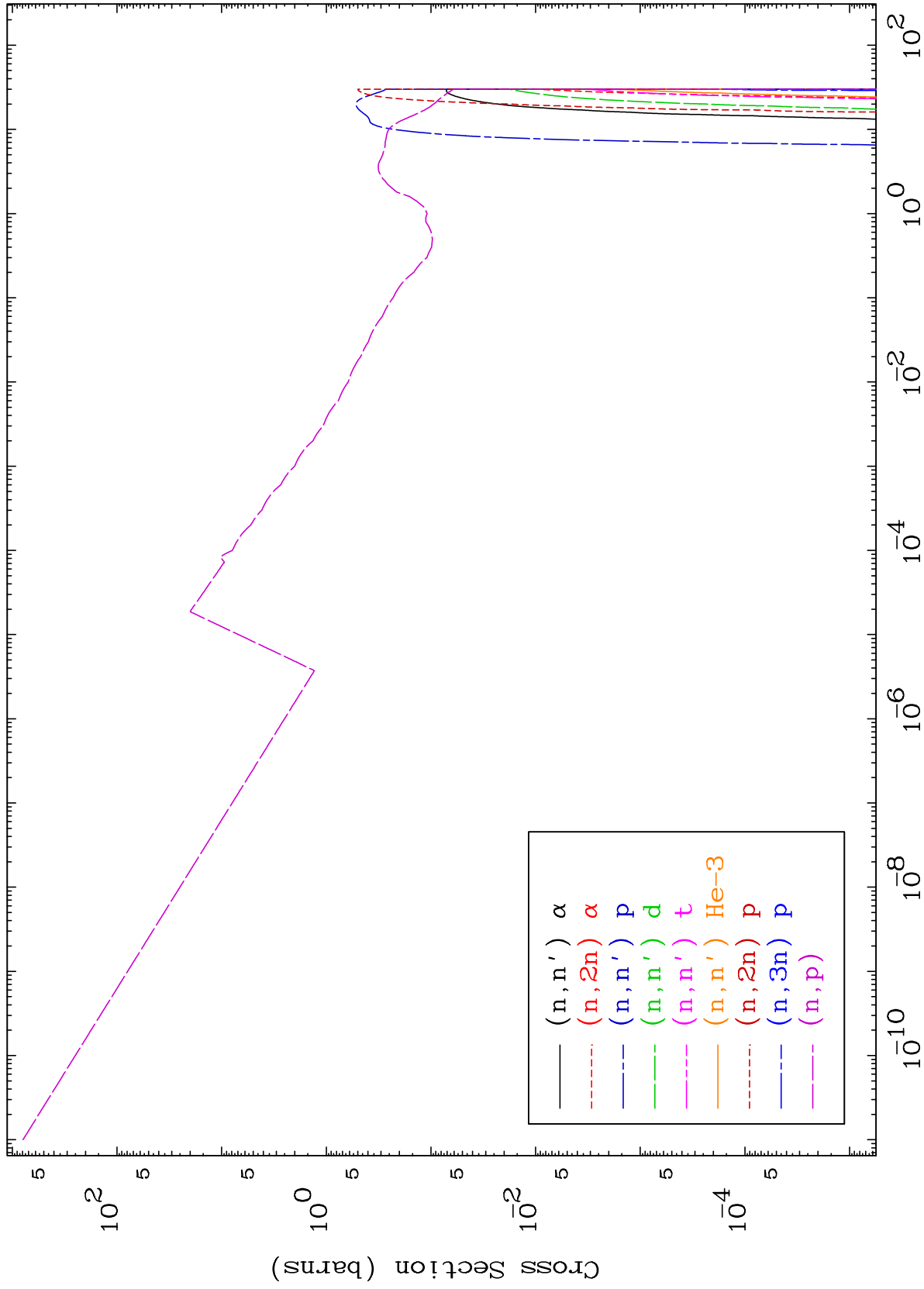
Incident Energy (MeV)

41-Nb-90

MAT 4116

Charged Particle
293 Kelvin Cross Sections

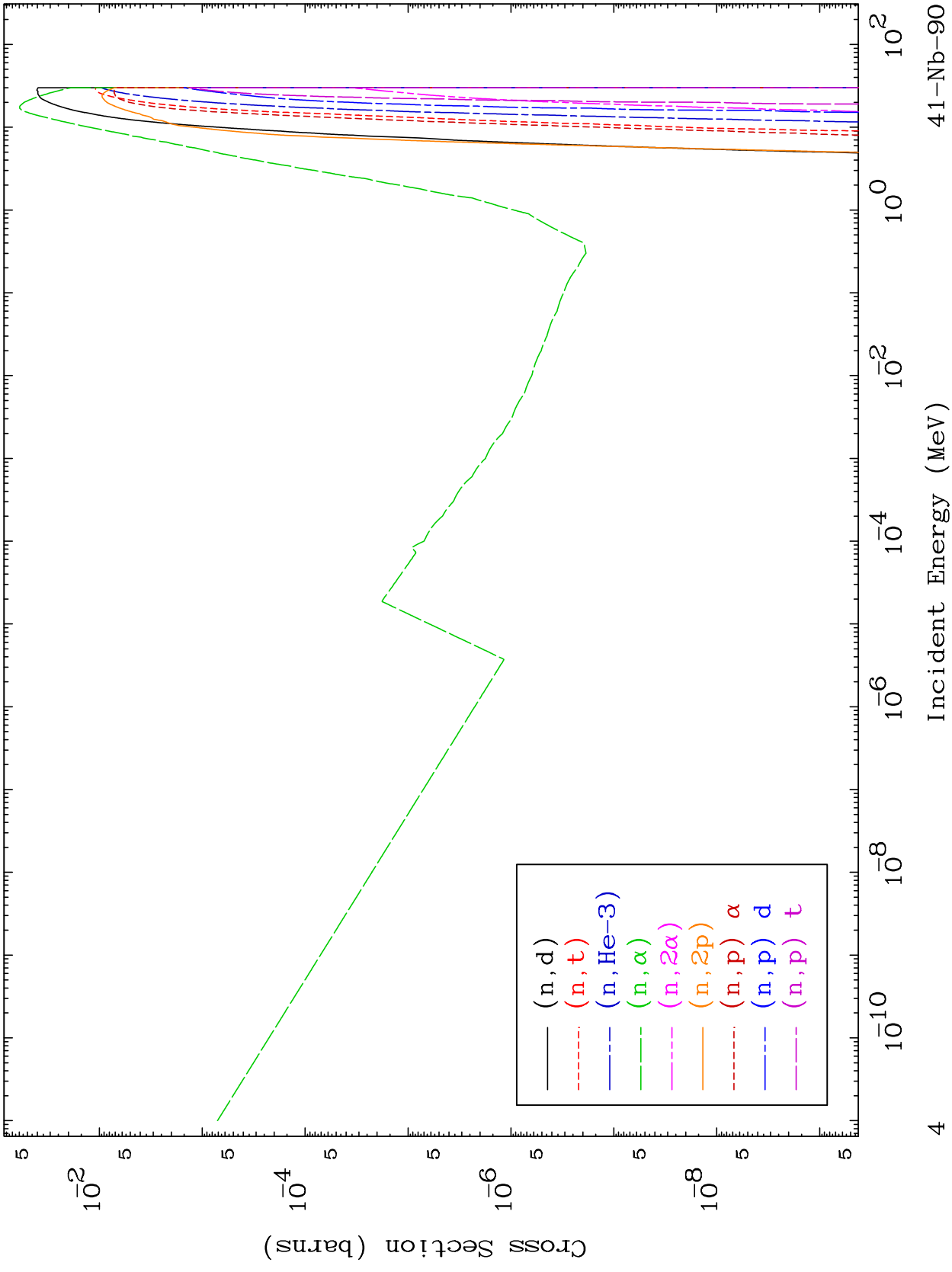
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MAT 4116

293 Kelvin Cross Sections

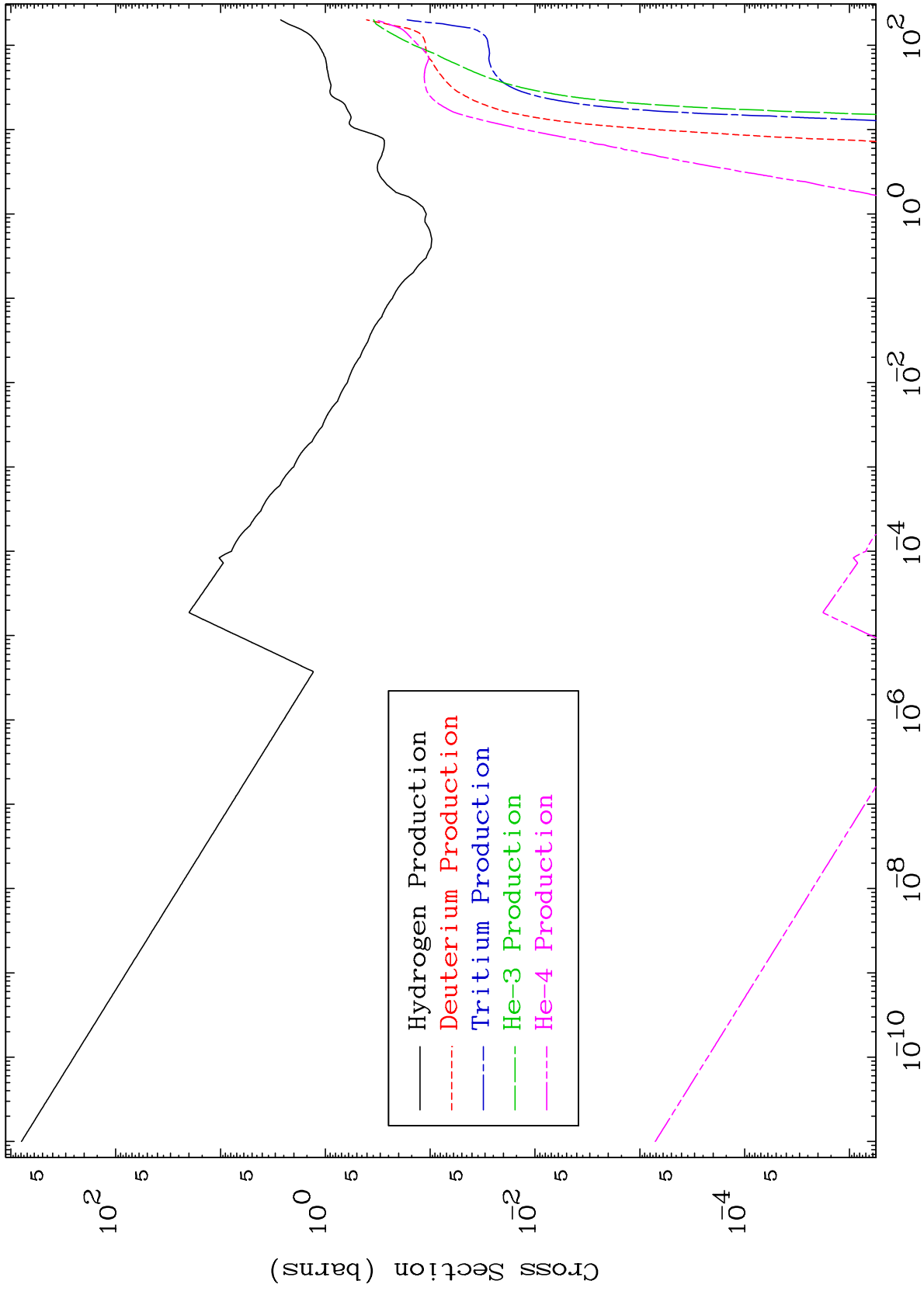
41-Nb-90



MAT 4116

Particle Production
293 Kelvin Cross Sections

41-Nb-90



5

Incident Energy (MeV)

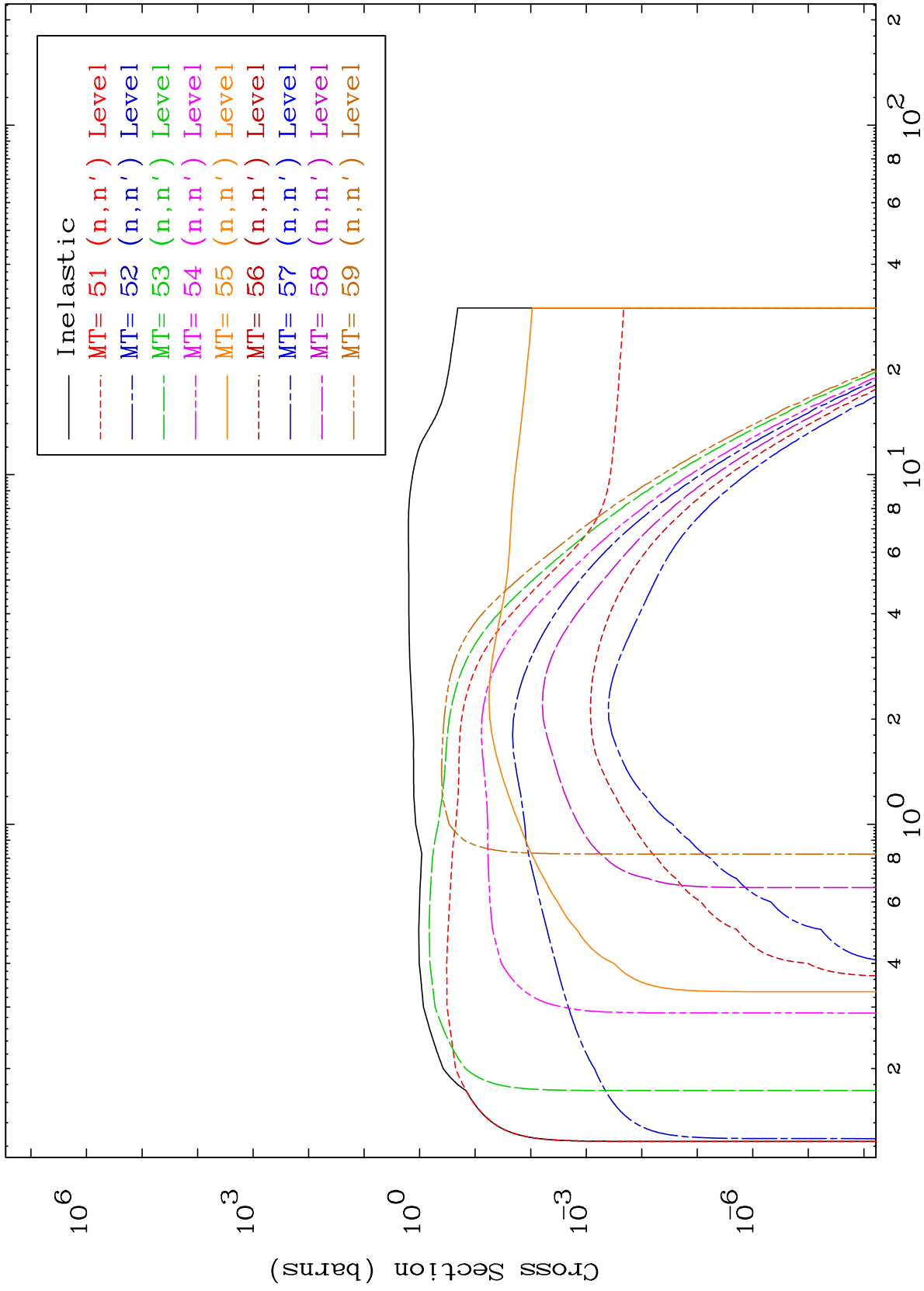
41-Nb-90

MAT 4116

(n,n') Level

41-Nb-90

293 Kelvin Cross Sections

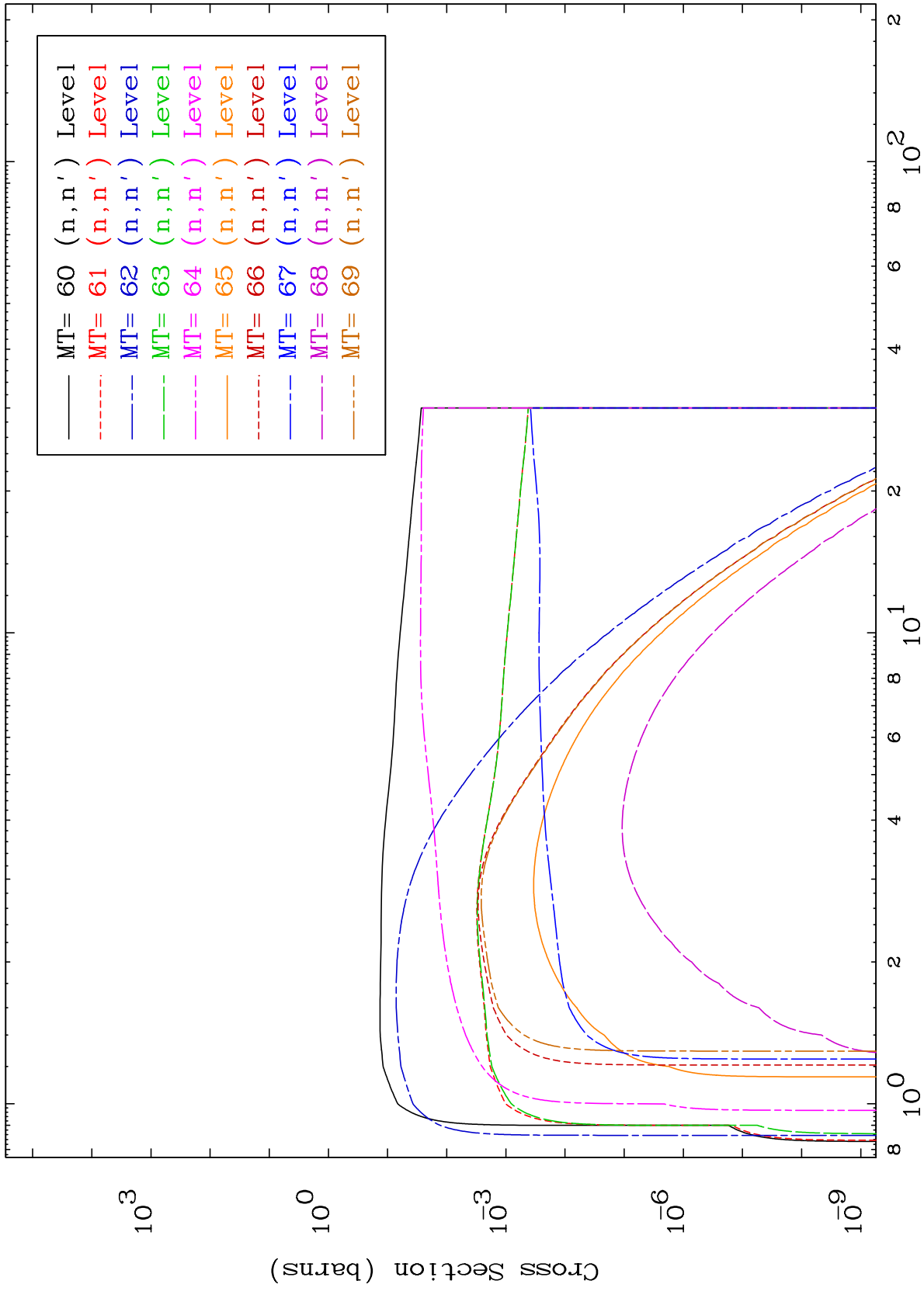


MAT 4116

(n,n') Level

41-Nb-90

293 Kelvin Cross Sections



7

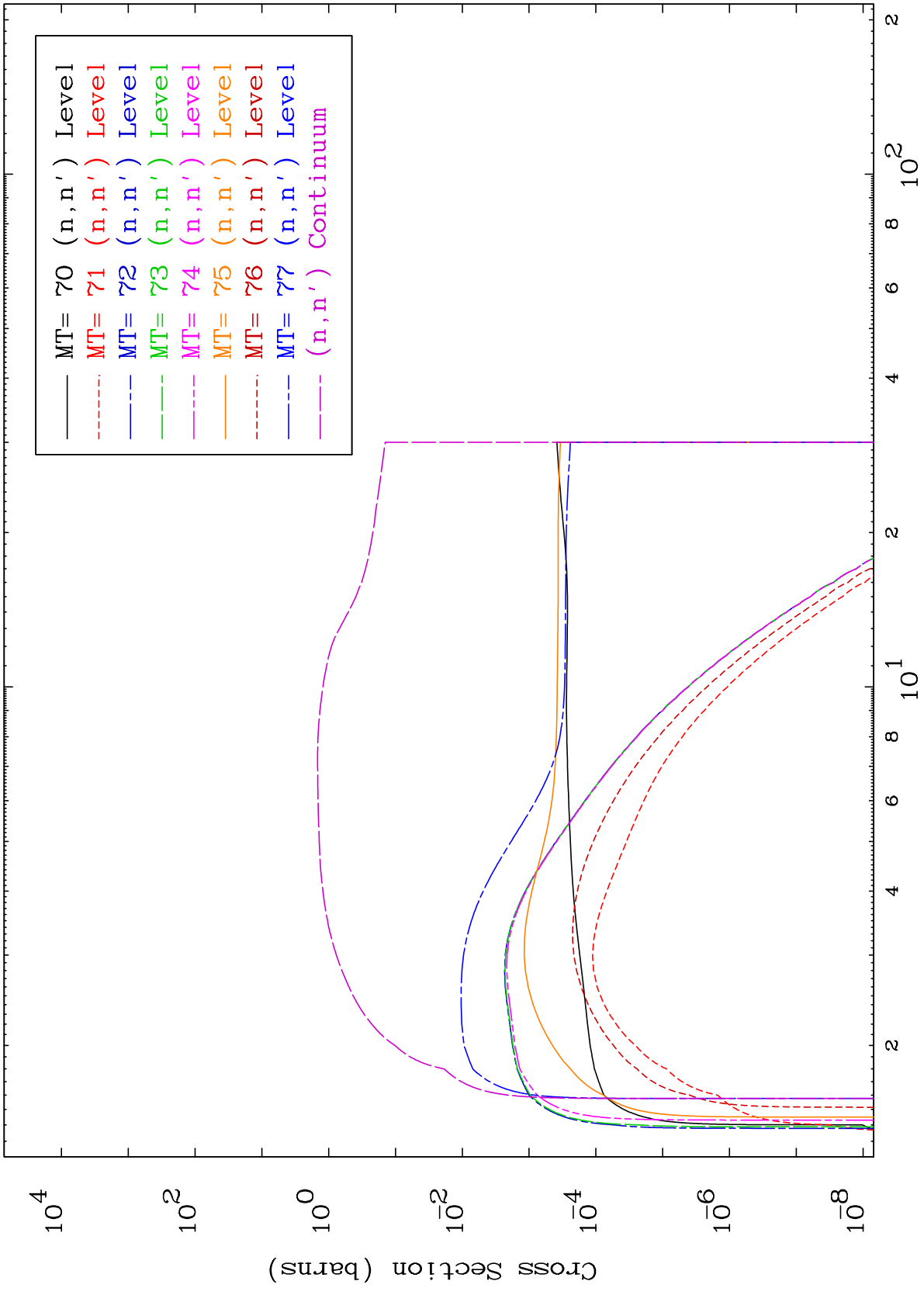
Incident Energy (MeV)

41-Nb-90

MAT 4116

(n,n') Level
293 Kelvin Cross Sections

41-Nb-90



8

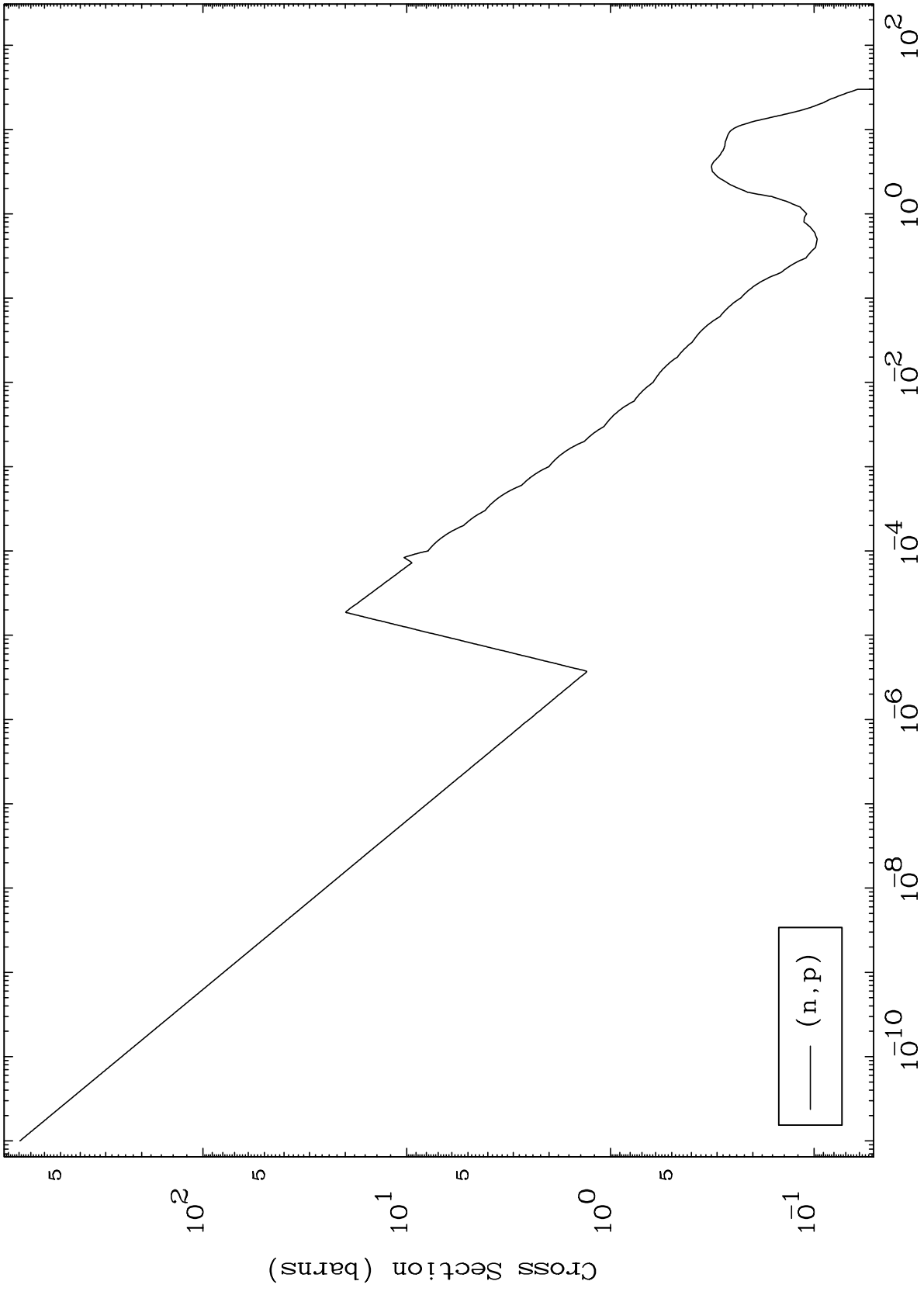
Incident Energy (MeV)

41-Nb-90

MAT 4116

(n,p) Levels
293 Kelvin Cross Sections

41-Nb-90

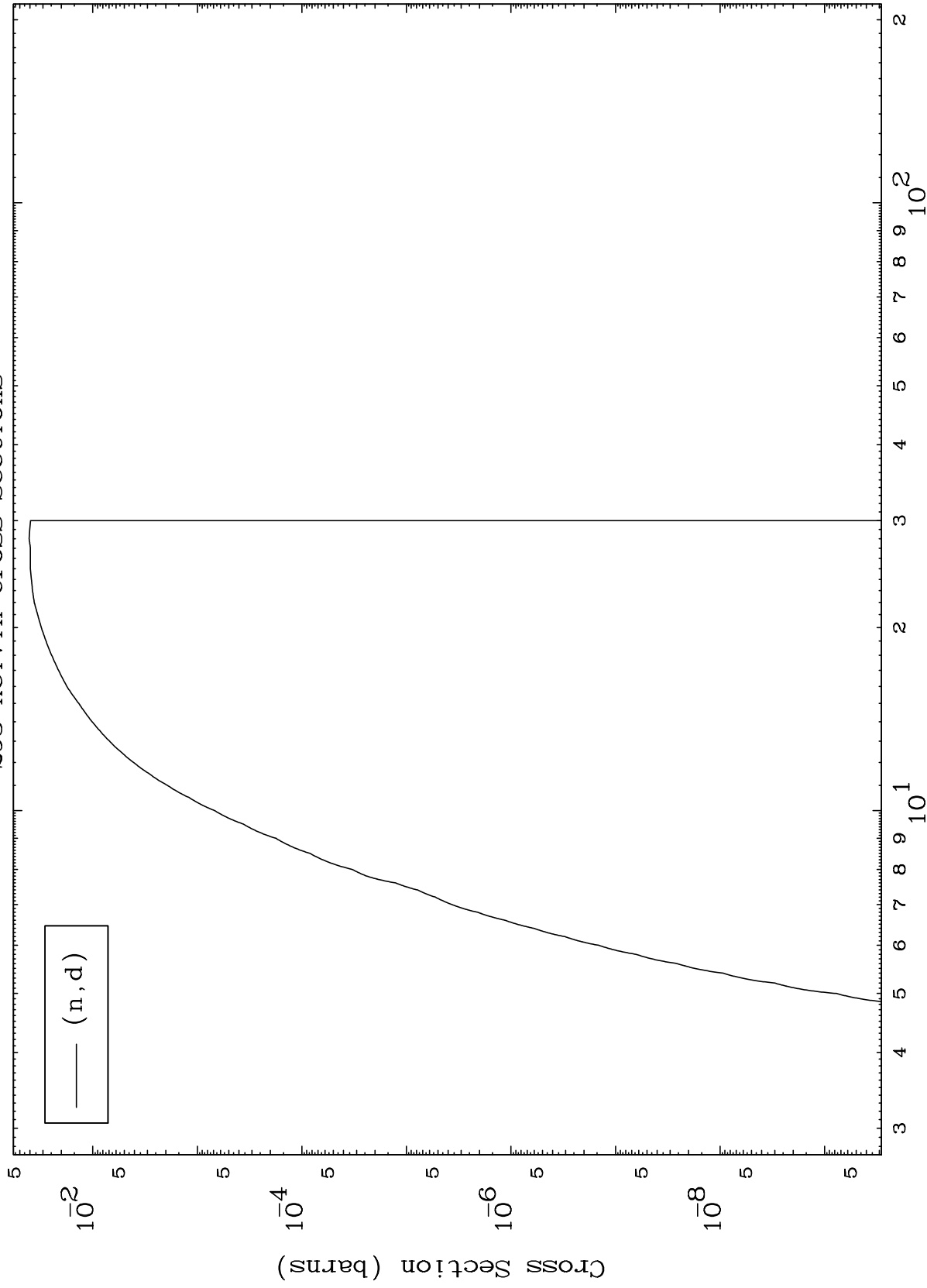


— (n, p)

MAT 4116

(n,d) Levels
293 Kelvin Cross Sections

41-Nb-90



10

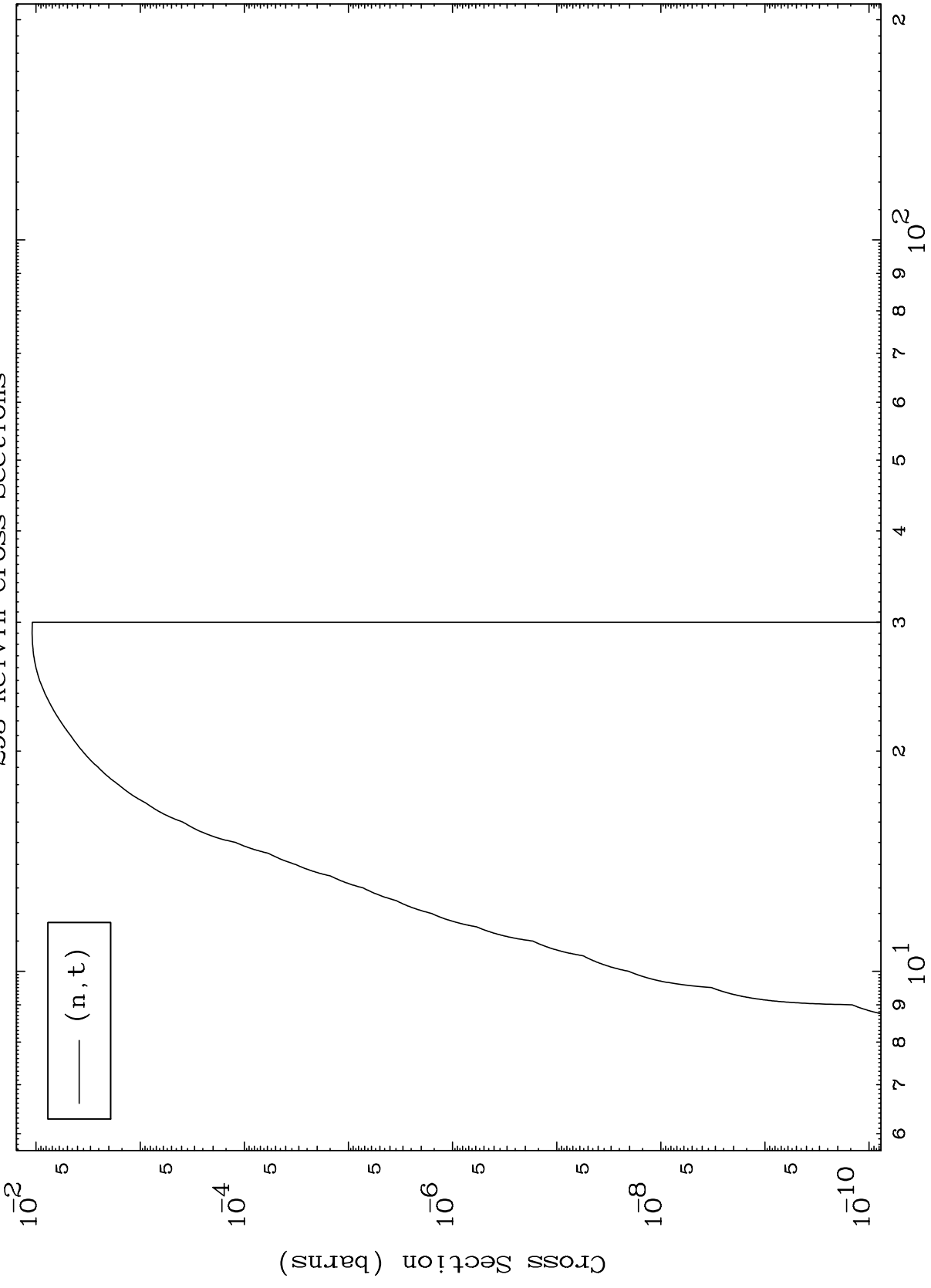
Incident Energy (MeV)

41-Nb-90

MAT 4116

(n,t) Levels
293 Kelvin Cross Sections

41-Nb-90



11

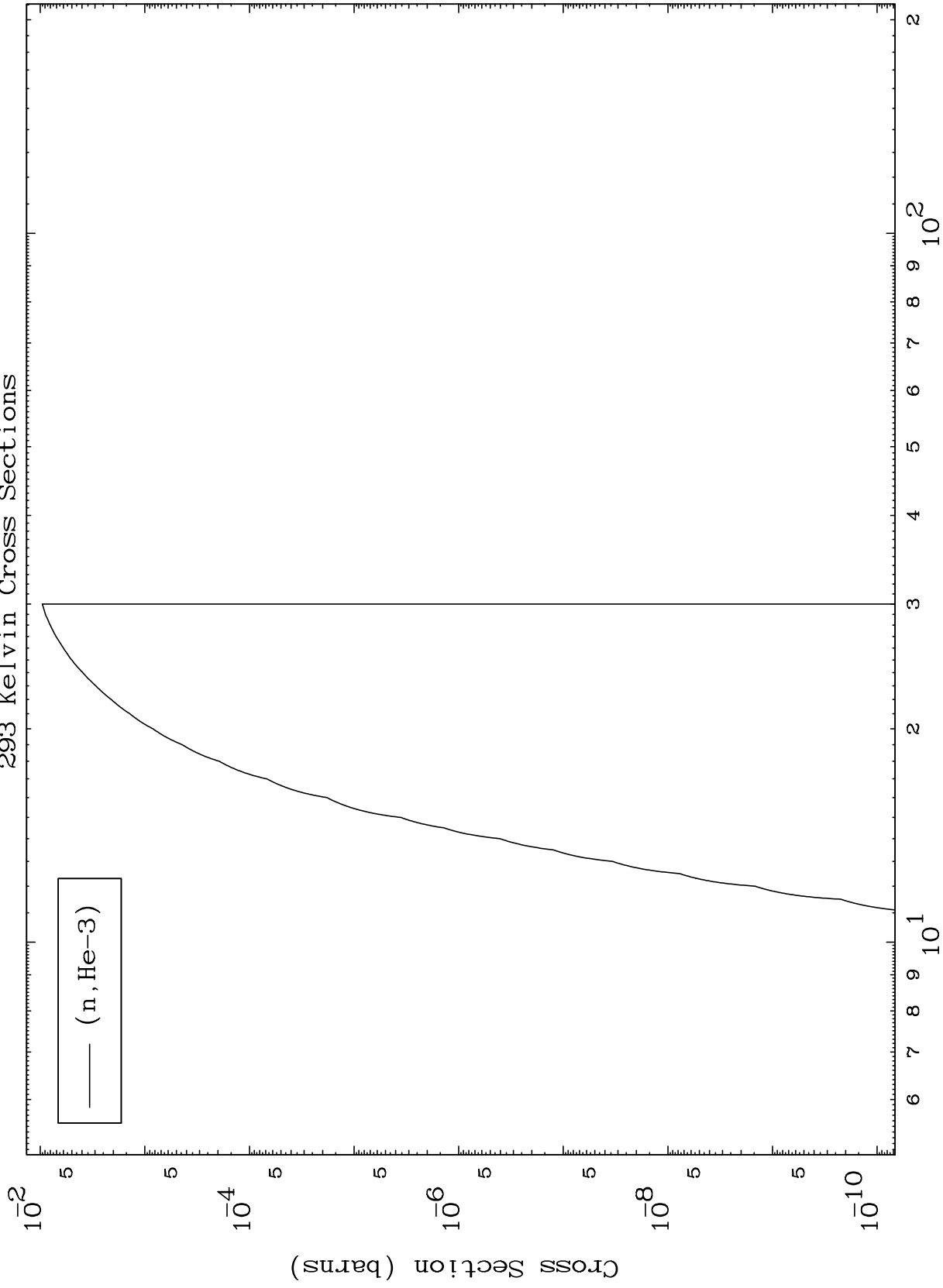
Incident Energy (MeV)

41-Nb-90

MAT 4116

(n,He3) Levels
293 Kelvin Cross Sections

41-Nb-90



12

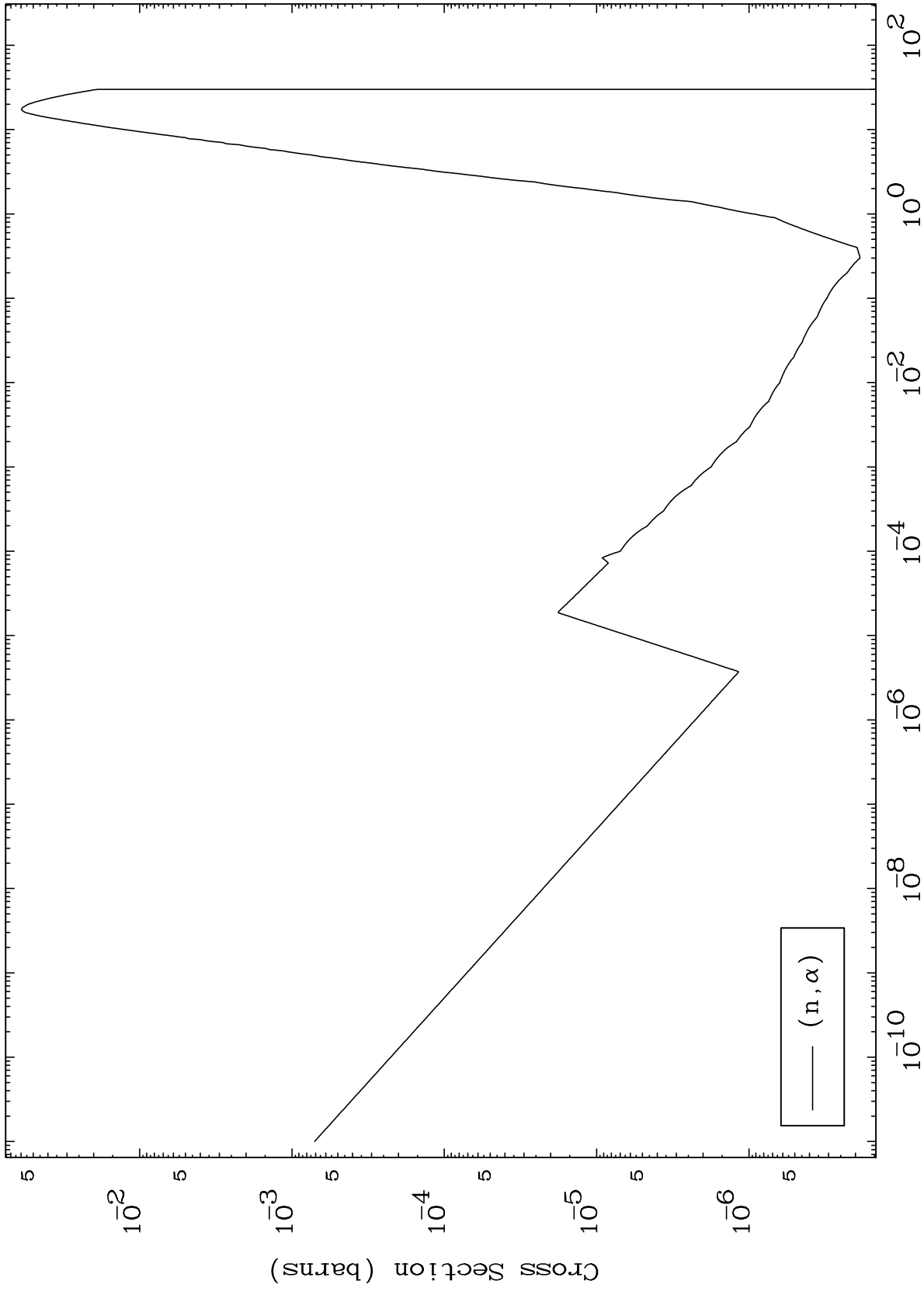
Incident Energy (MeV)

41-Nb-90

MAT 4116

(n, α) Levels
293 Kelvin Cross Sections

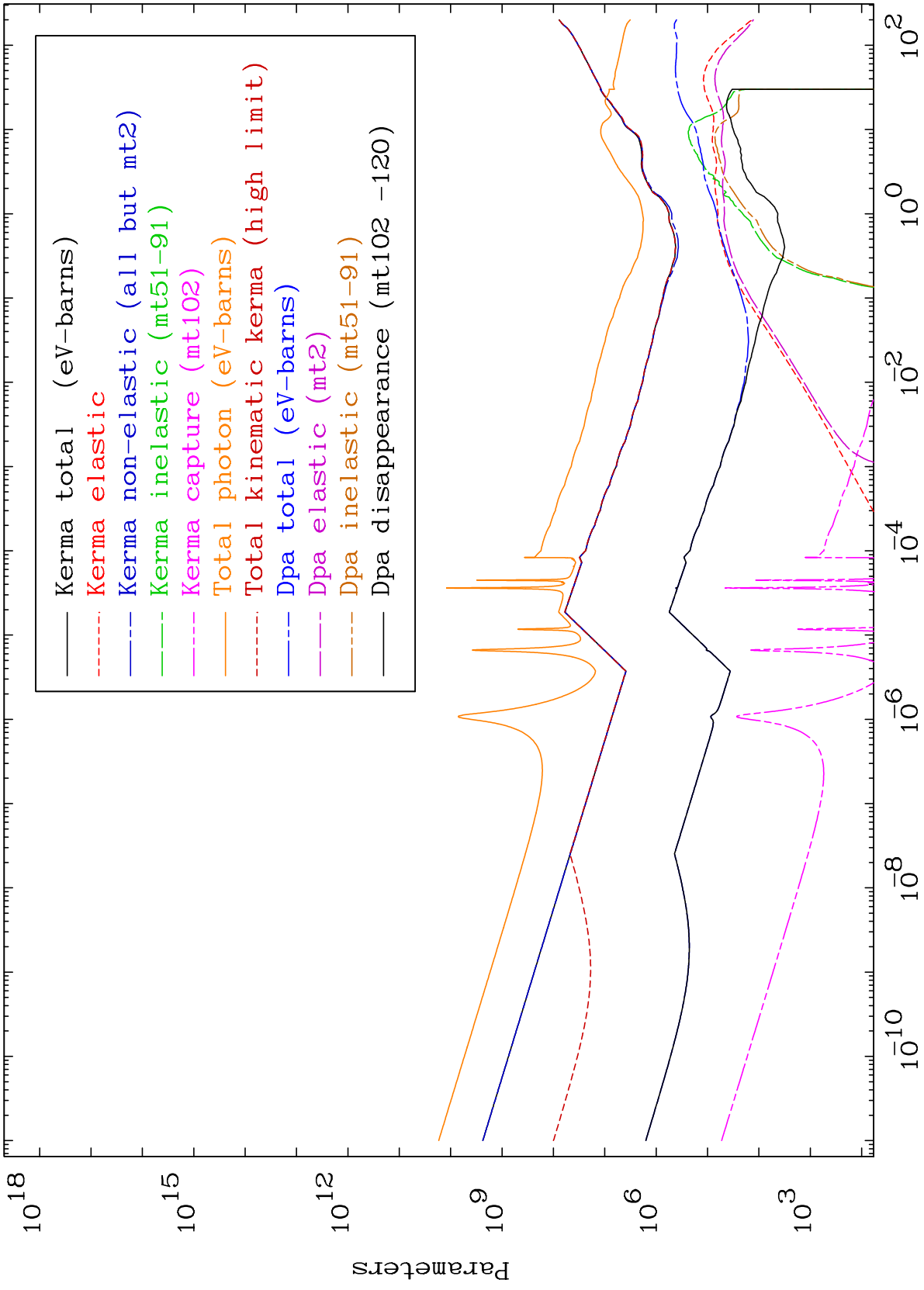
41-Nb-90



13

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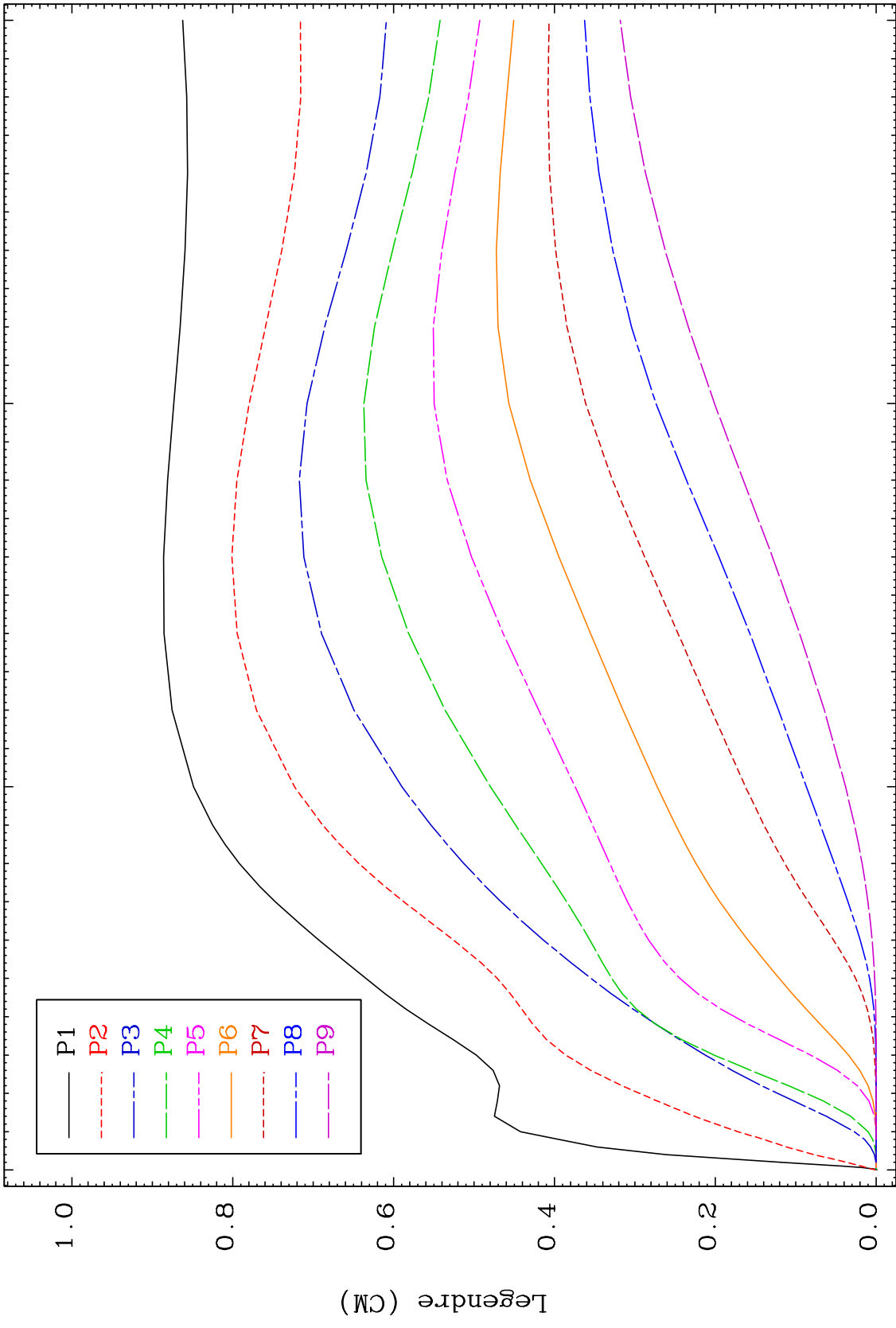
41-Nb-90



MAT 4116

Elastic Legendre Coefficients

41-Nb-90



15

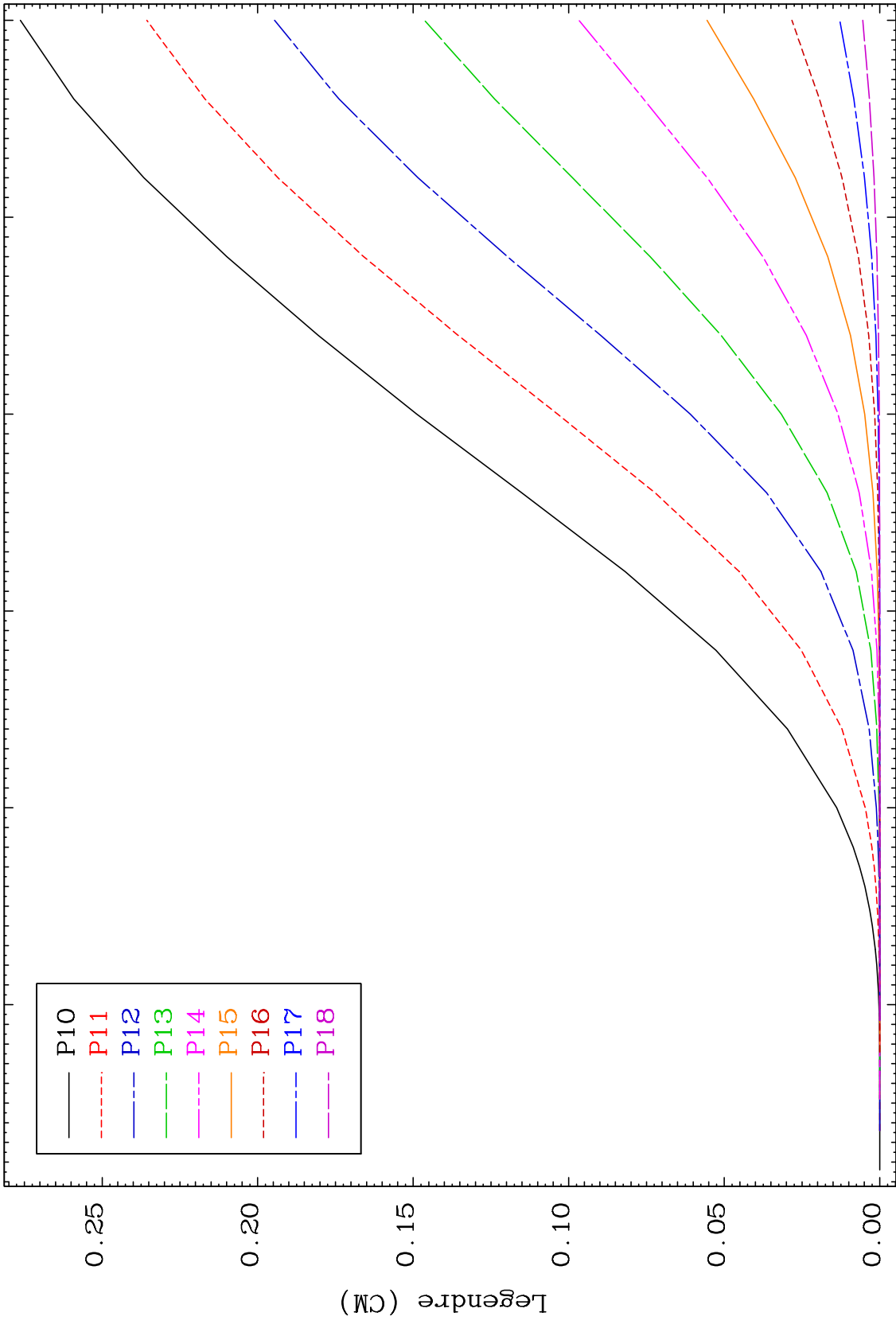
Incident Energy (MeV)

41-Nb-90

MAT 4116

Elastic Legendre Coefficients

41-Nb-90



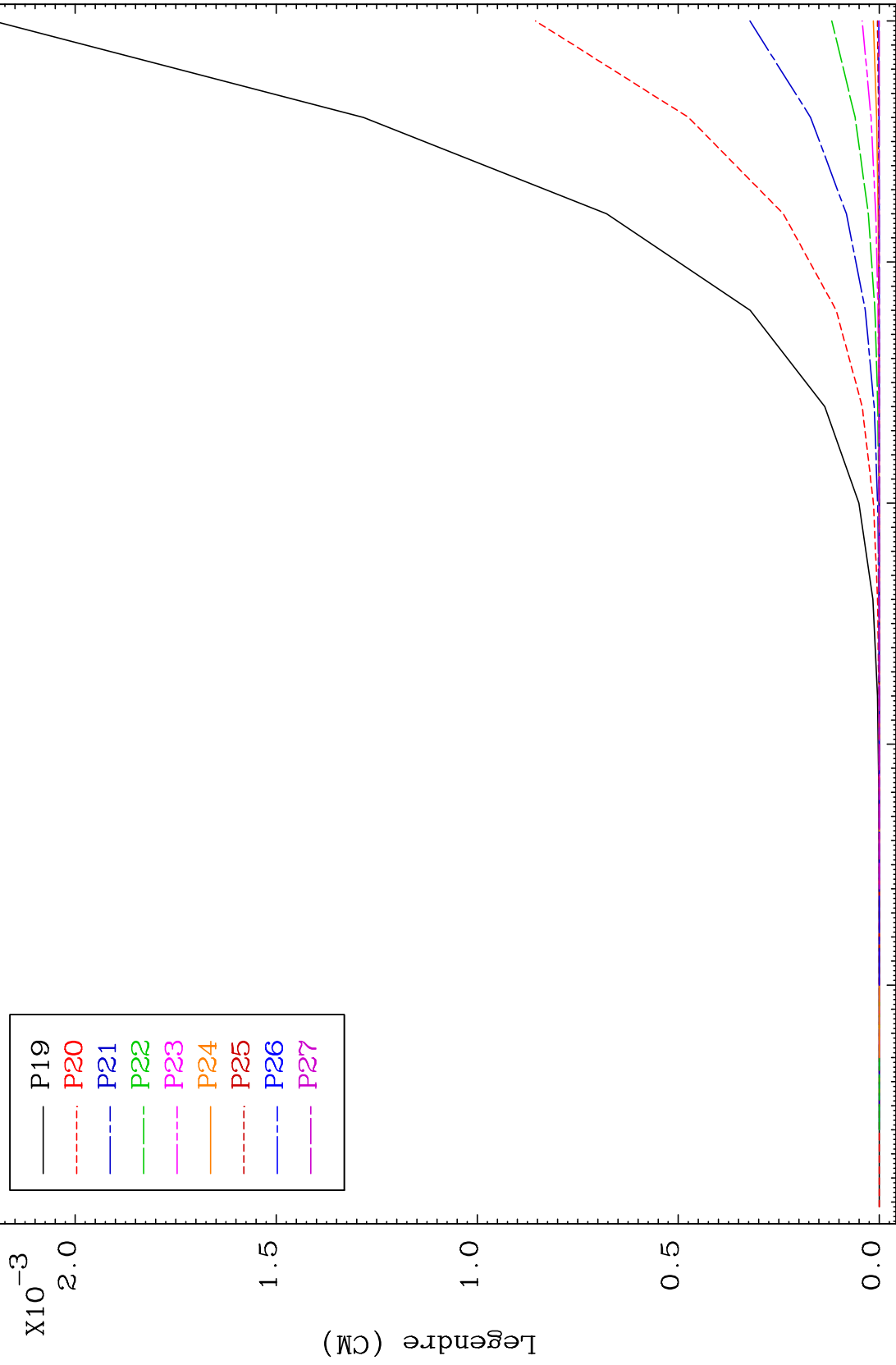
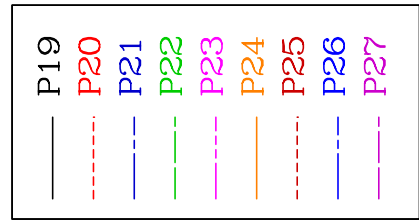
16

41-Nb-90

MAT 4116

Elastic Legendre Coefficients

41-Nb-90

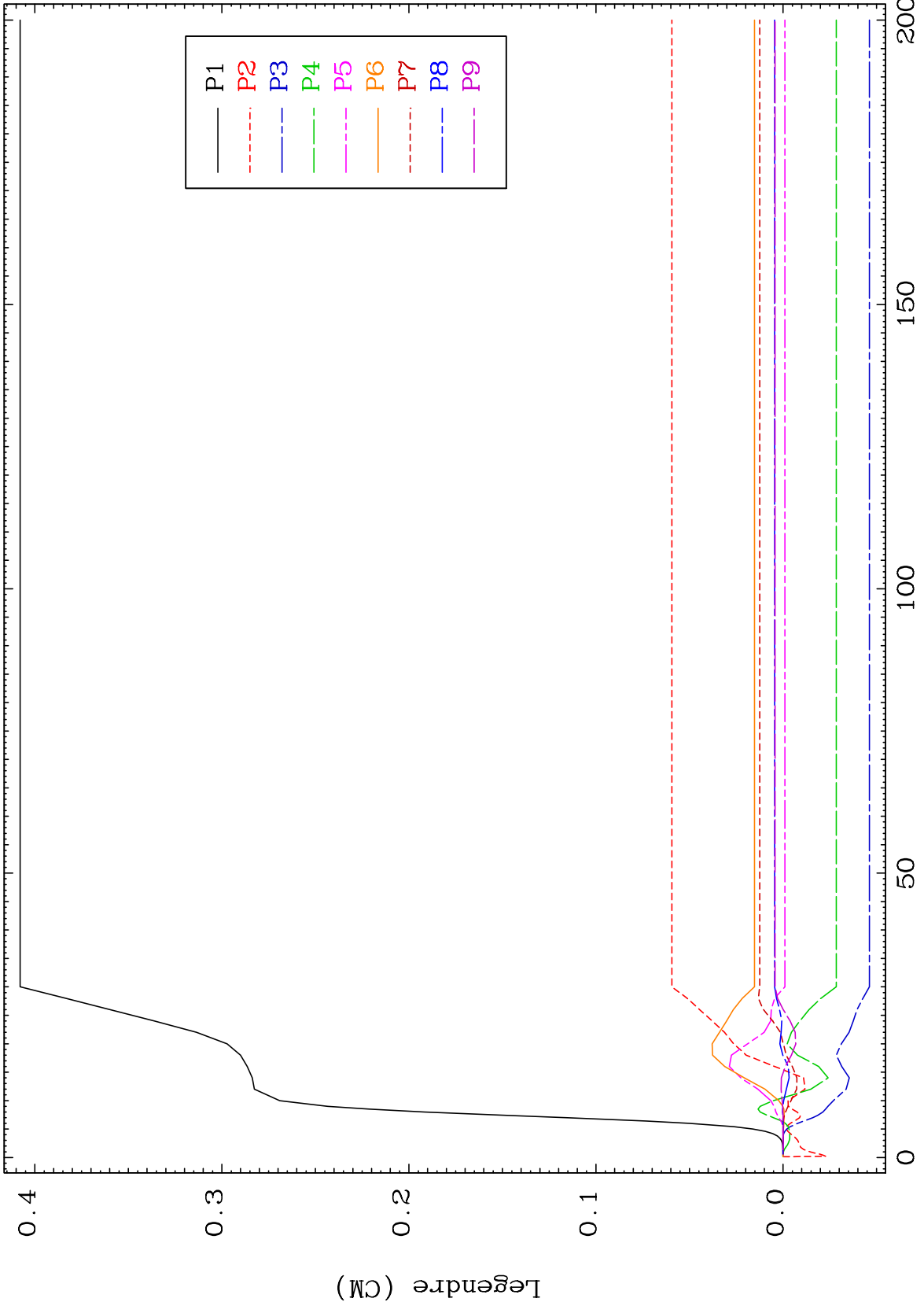


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Incident Energy (MeV)

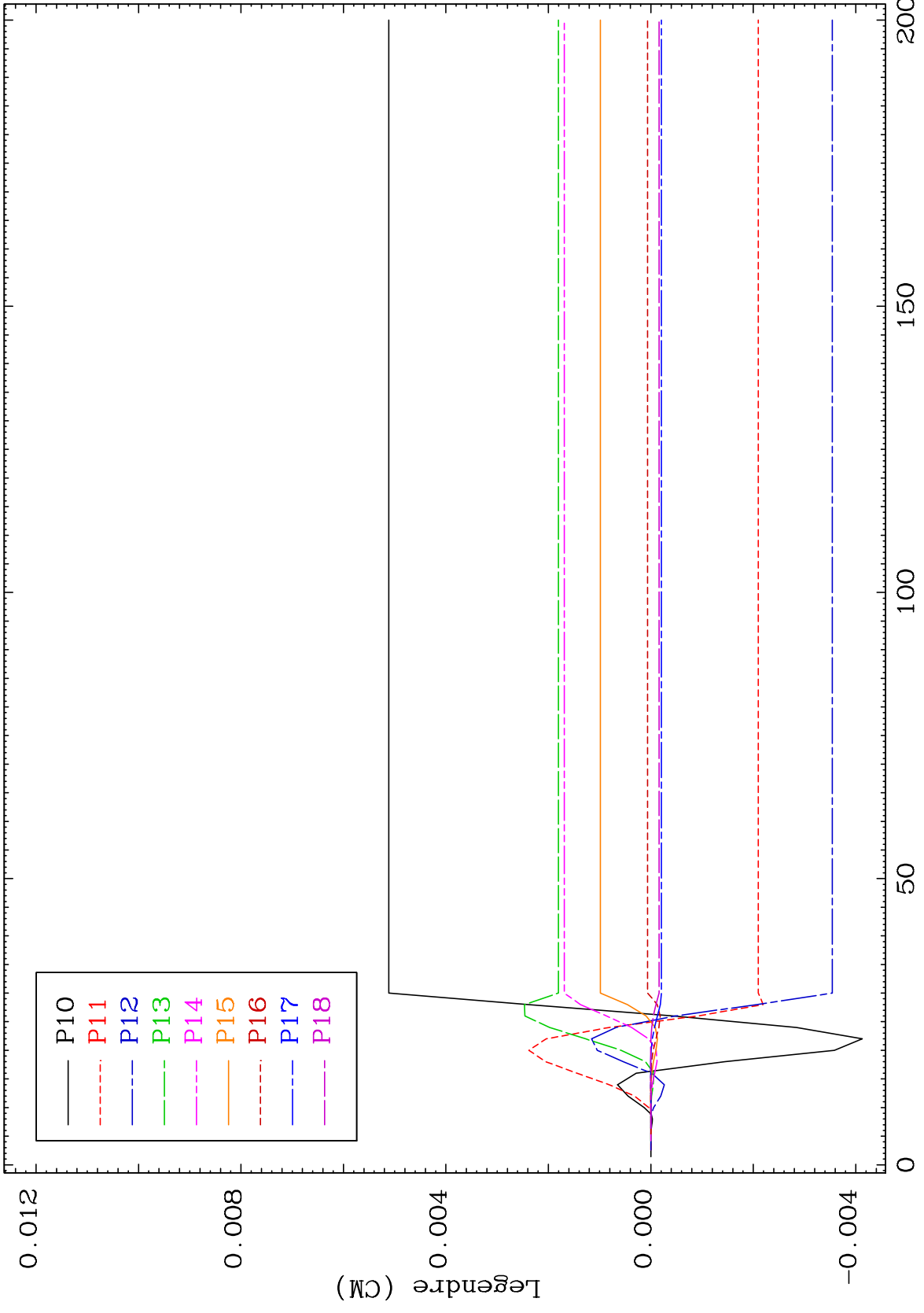
41-Nb-90

MAT 4116 MT= 51 (n,n') Level Legendre Coefficients 41-Nb-90



19 41-Nb-90

MAT 4116 MT= 51 (n,n') Level Legendre Coefficients 41-Nb-90

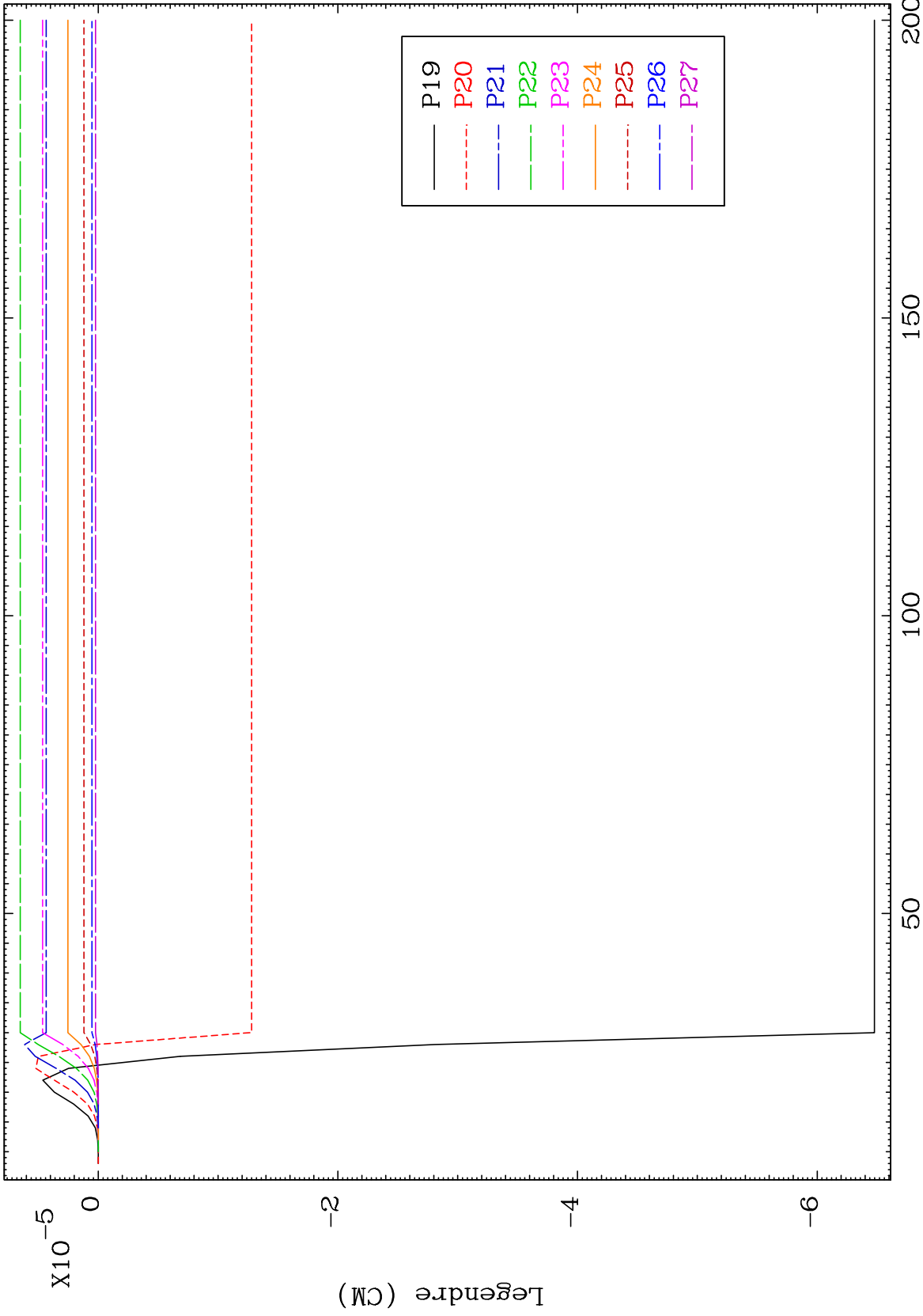


41-Nb-90

MAT 4116

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

41-Nb-90



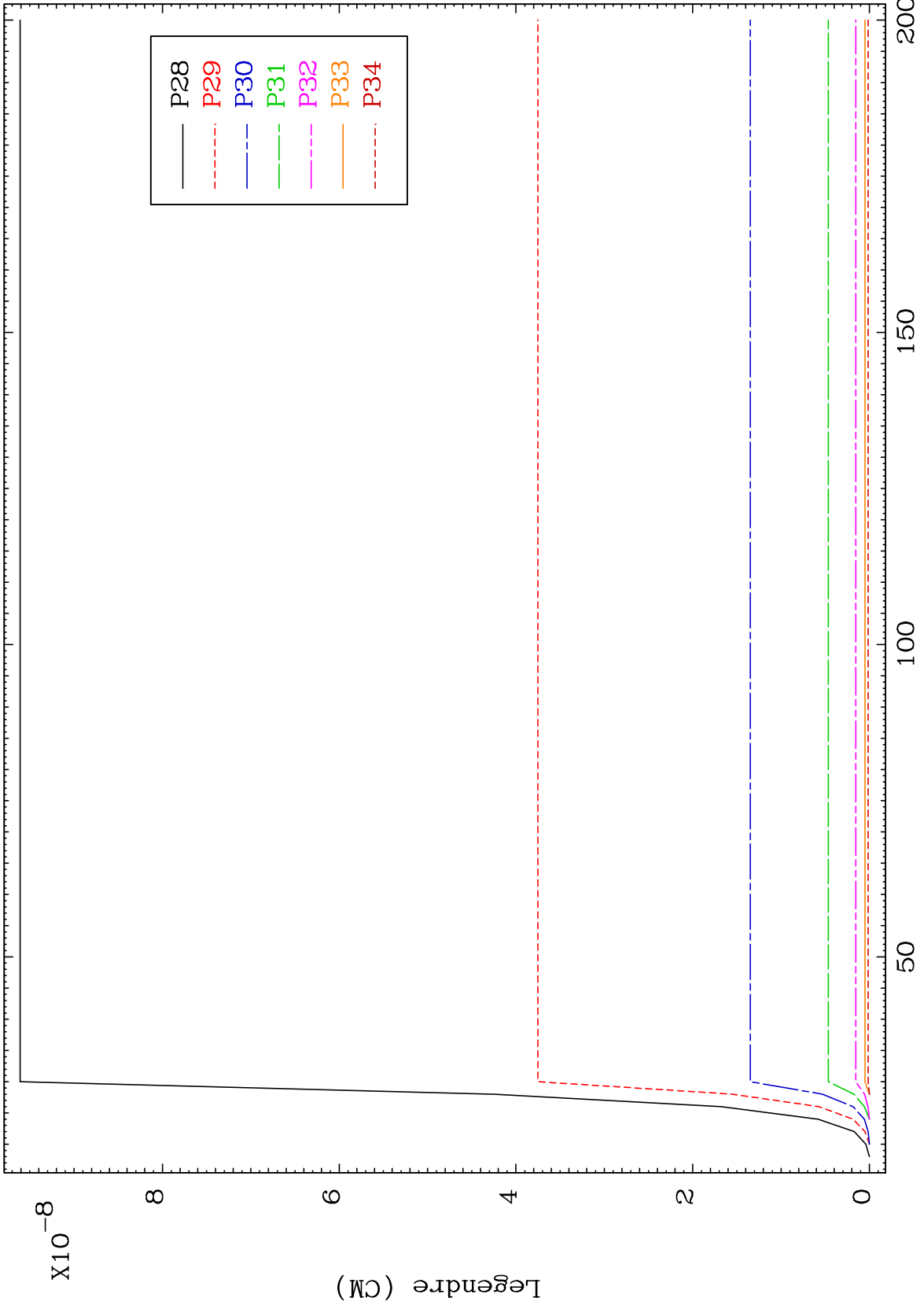
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41-Nb-90

MAT 4116

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

41-Nb-90



22

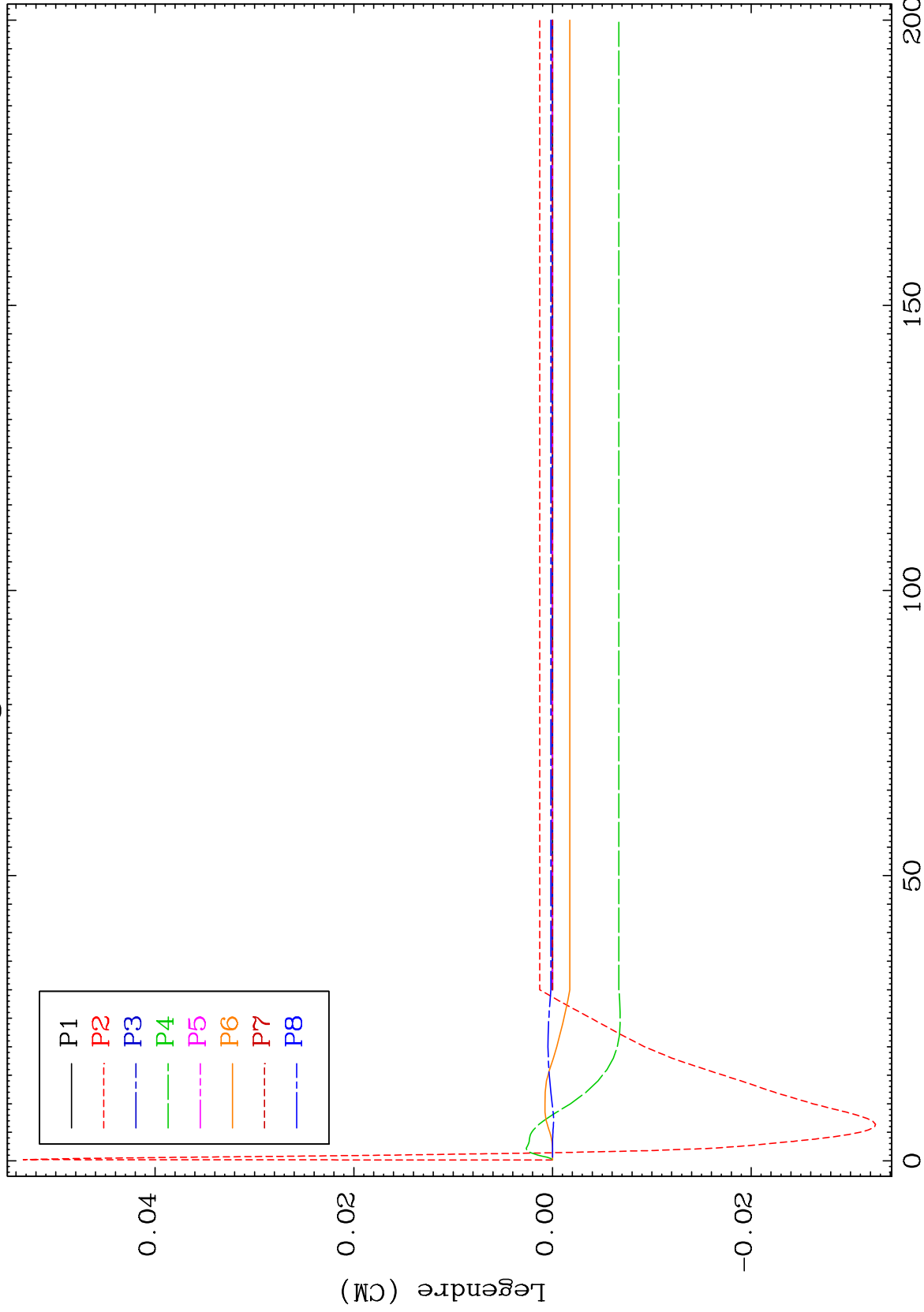
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90

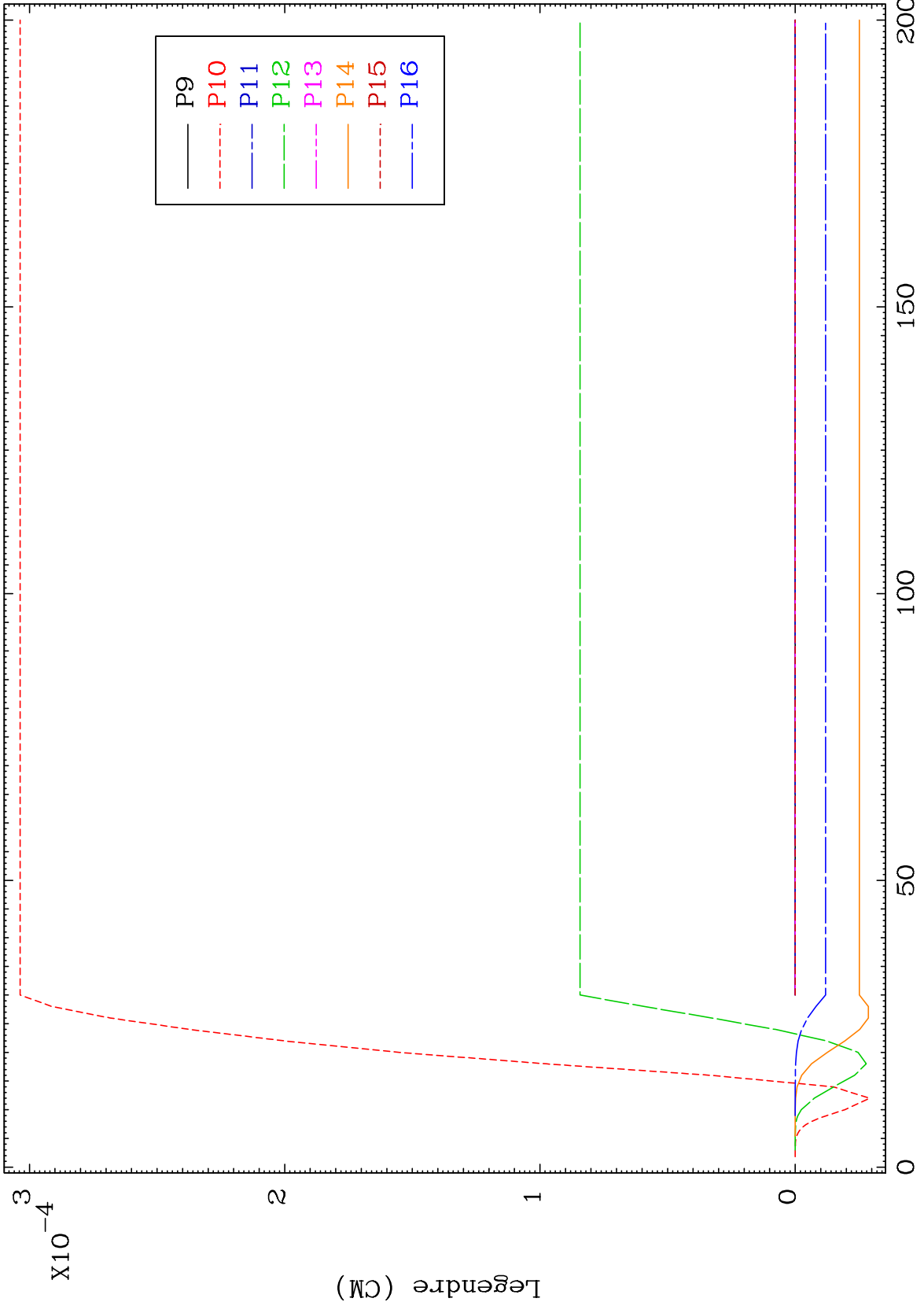


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Incident Energy (MeV)

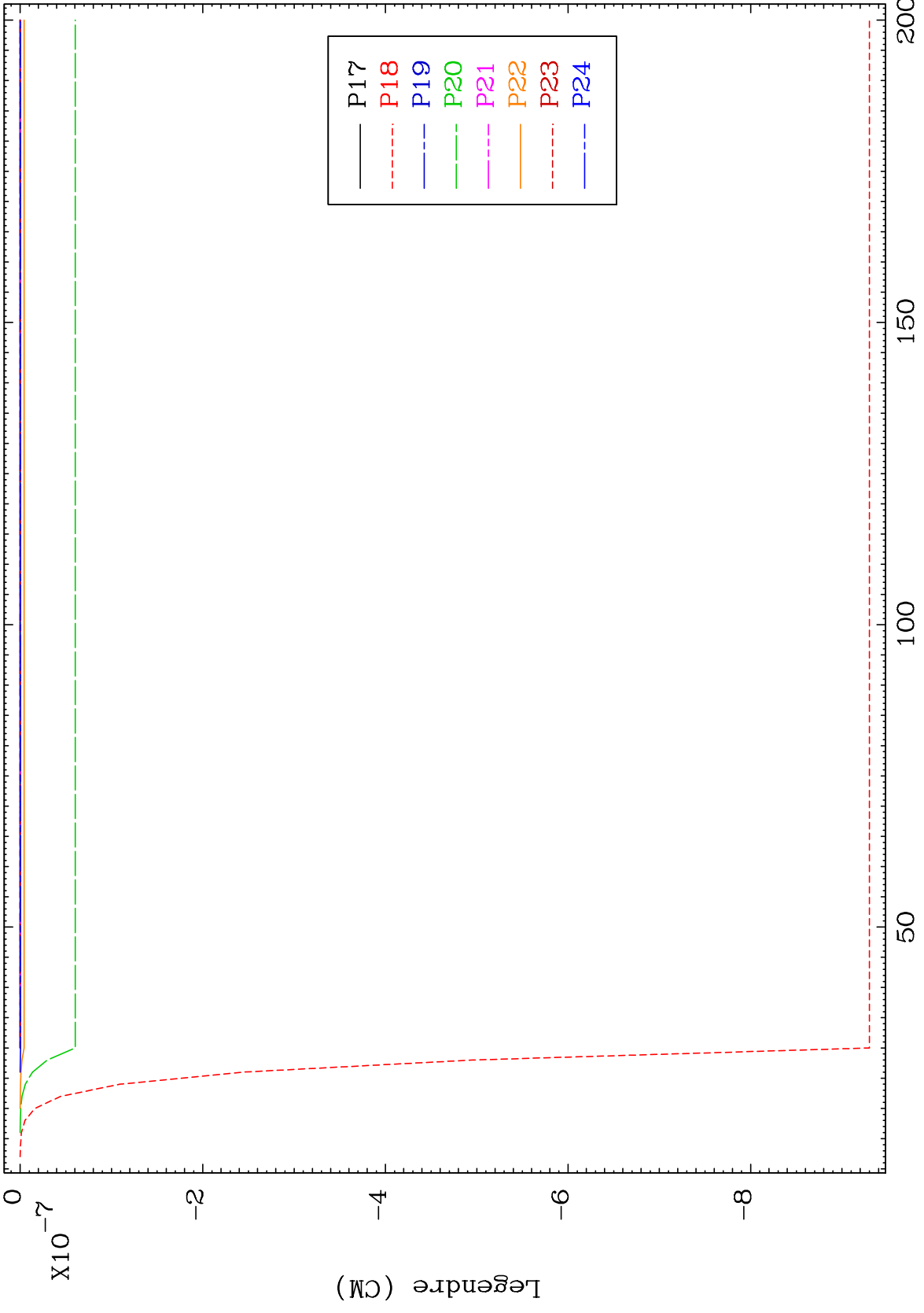
41-Nb-90

MAT 4116 MT= 52 (n,n') Level Legendre Coefficients 41-Nb-90



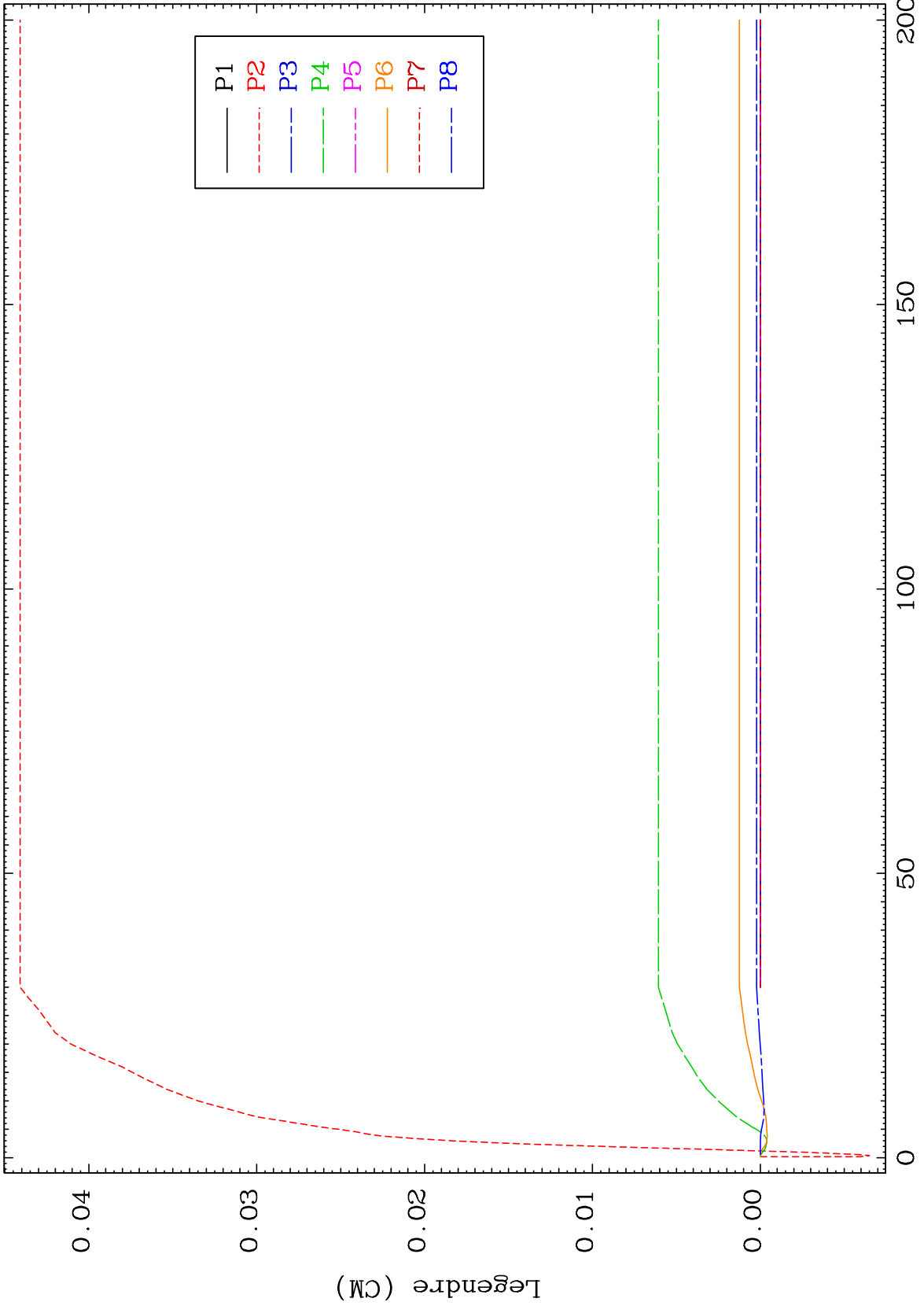
24 Incident Energy (MeV) 41-Nb-90

MAT 4116 MT= 52 (n,n') Level Legendre Coefficients 41-Nb-90



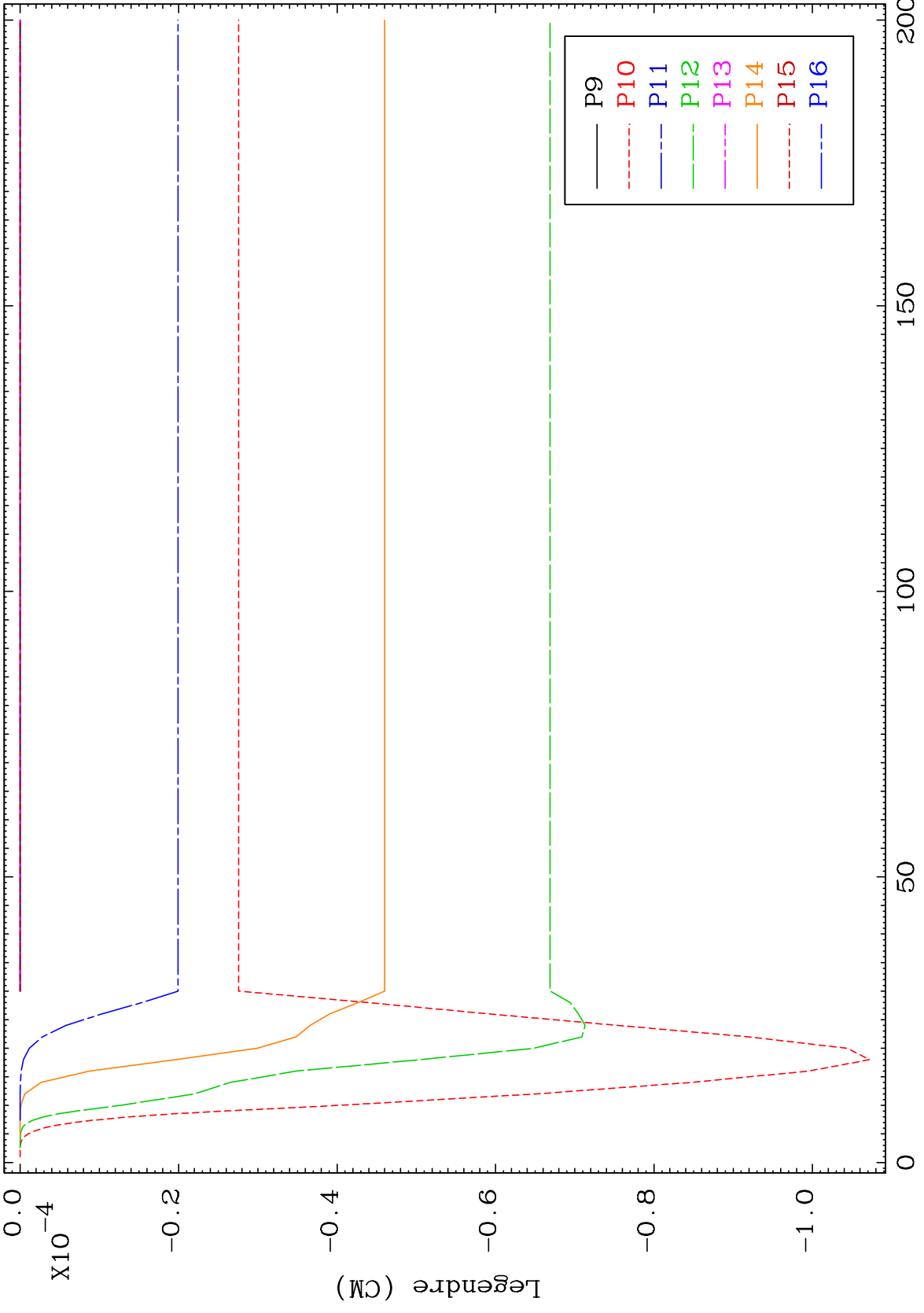
25 Incident Energy (MeV) 41-Nb-90

MAT 4116 MT= 53 (n,n') Level Legendre Coefficients 41-Nb-90



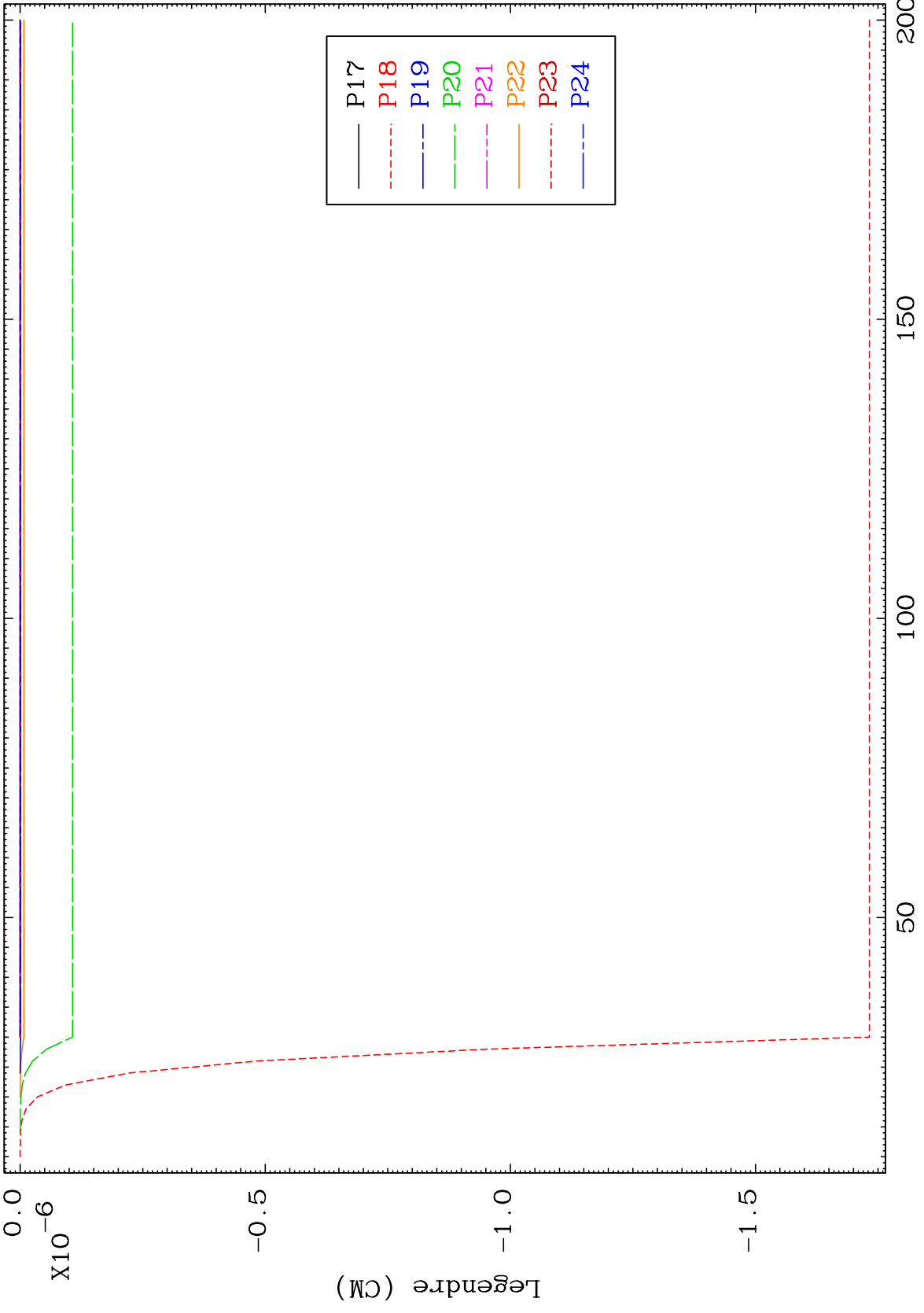
26 41-Nb-90

MAT 4116 MT= 53 (n,n') Level Legendre Coefficients 41-Nb-90



27 41-Nb-90

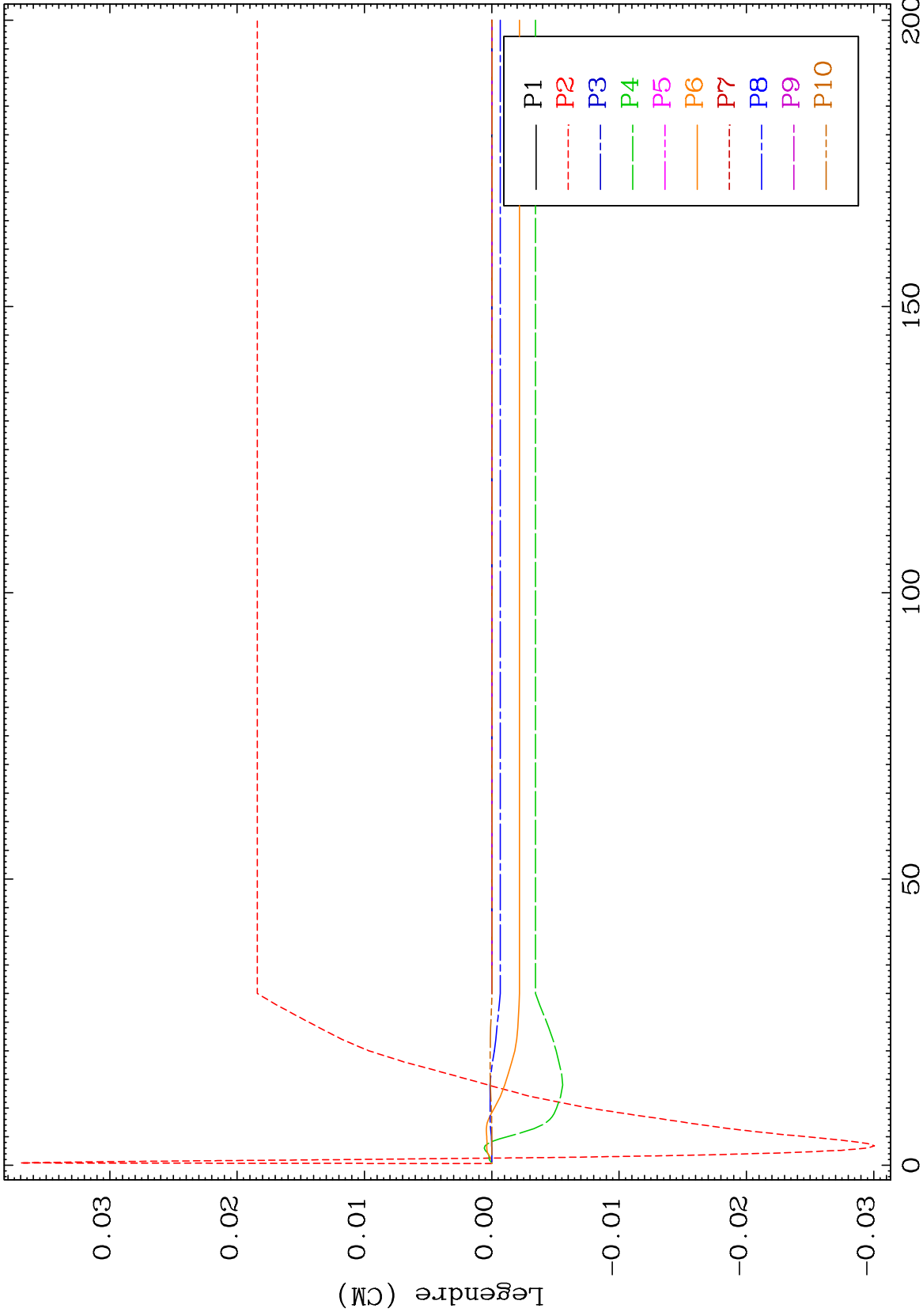
MAT 4116 MT= 53 (n,n') Level Legendre Coefficients 41-Nb-90



MAT 4116

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

41-Nb-90

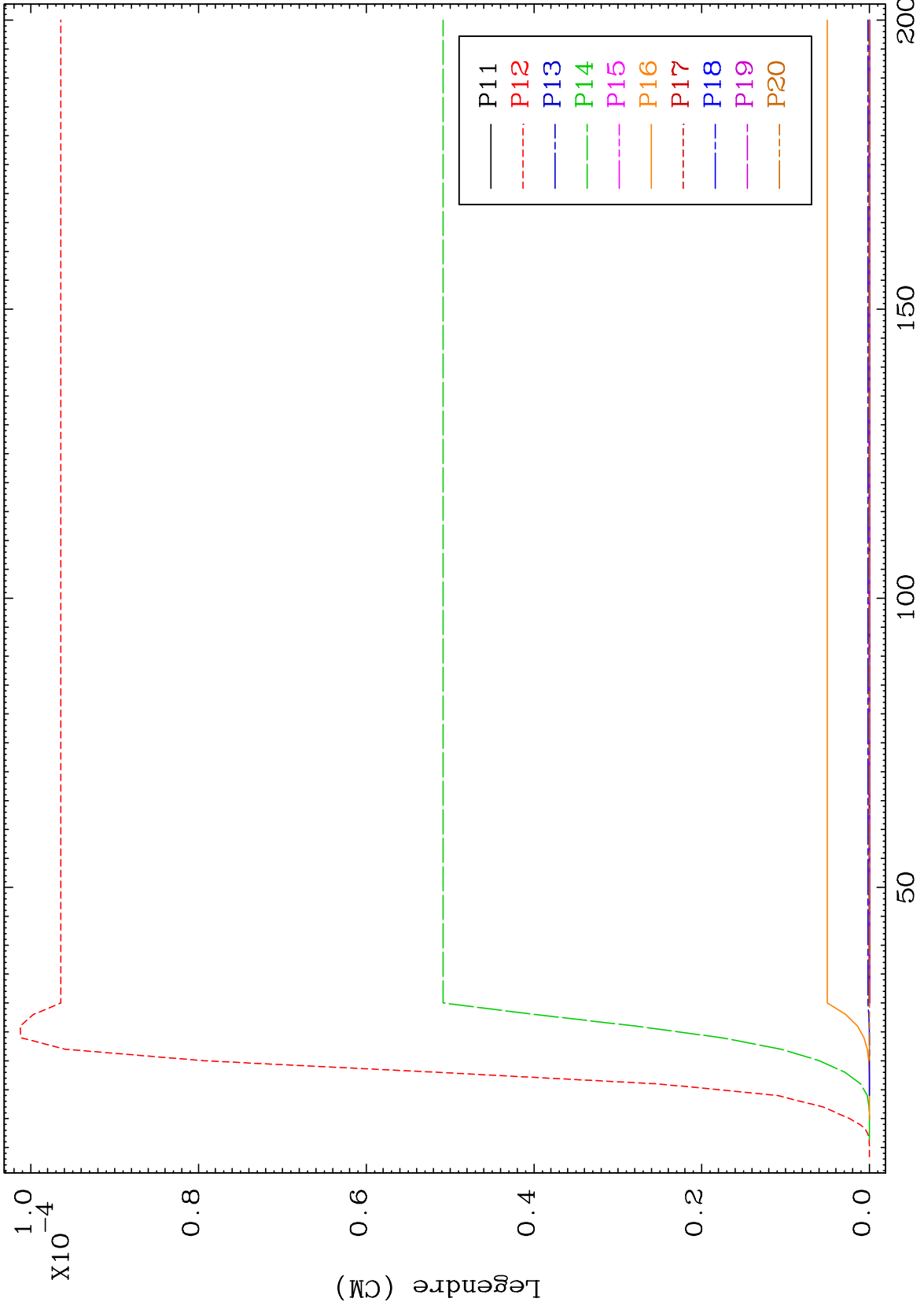


29

Incident Energy (MeV)

41-Nb-90

MAT 4116 MT= 54 (n,n') Level Legendre Coefficients 41-Nb-90

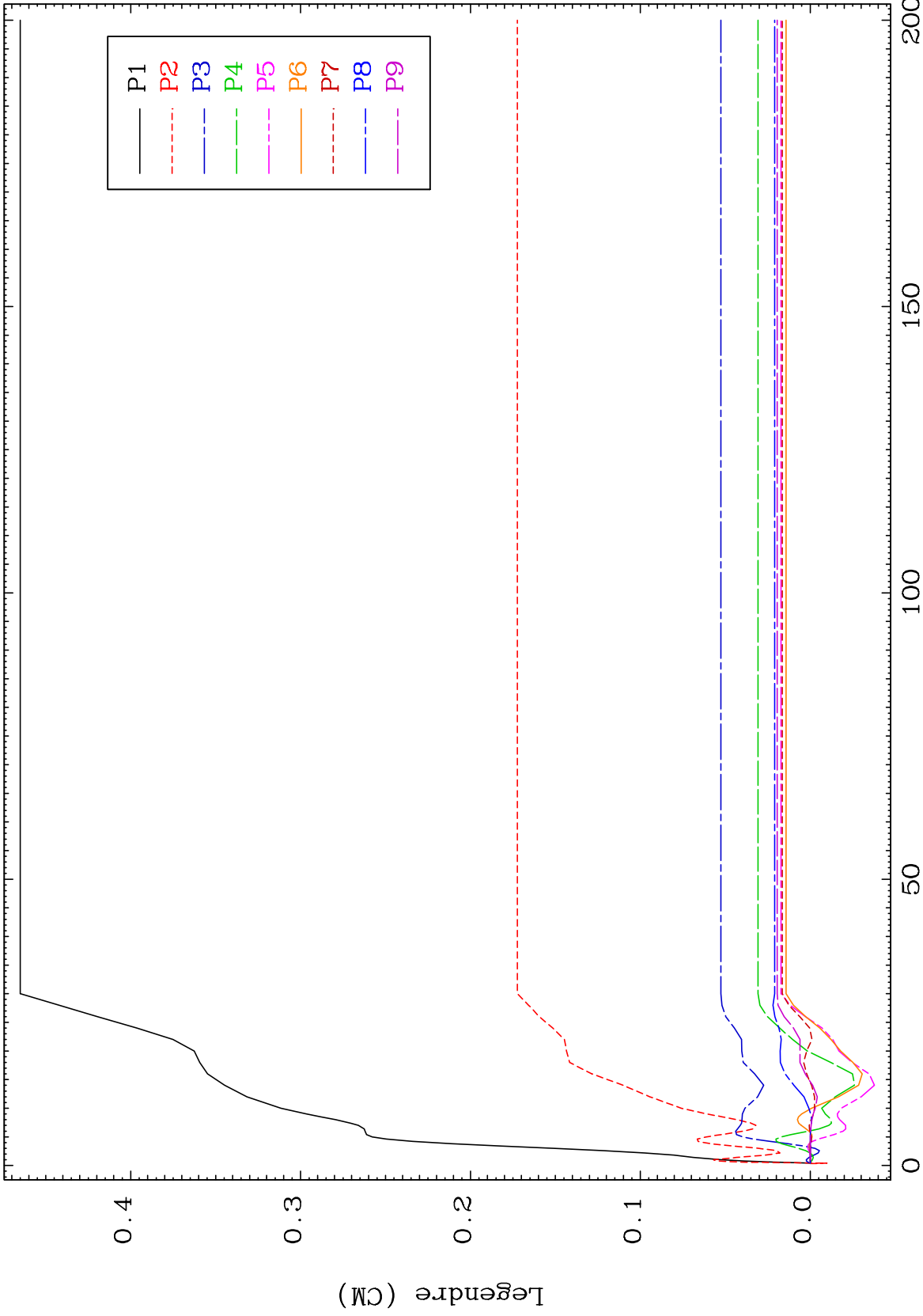


30 Incident Energy (MeV) 41-Nb-90

MAT 4116

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

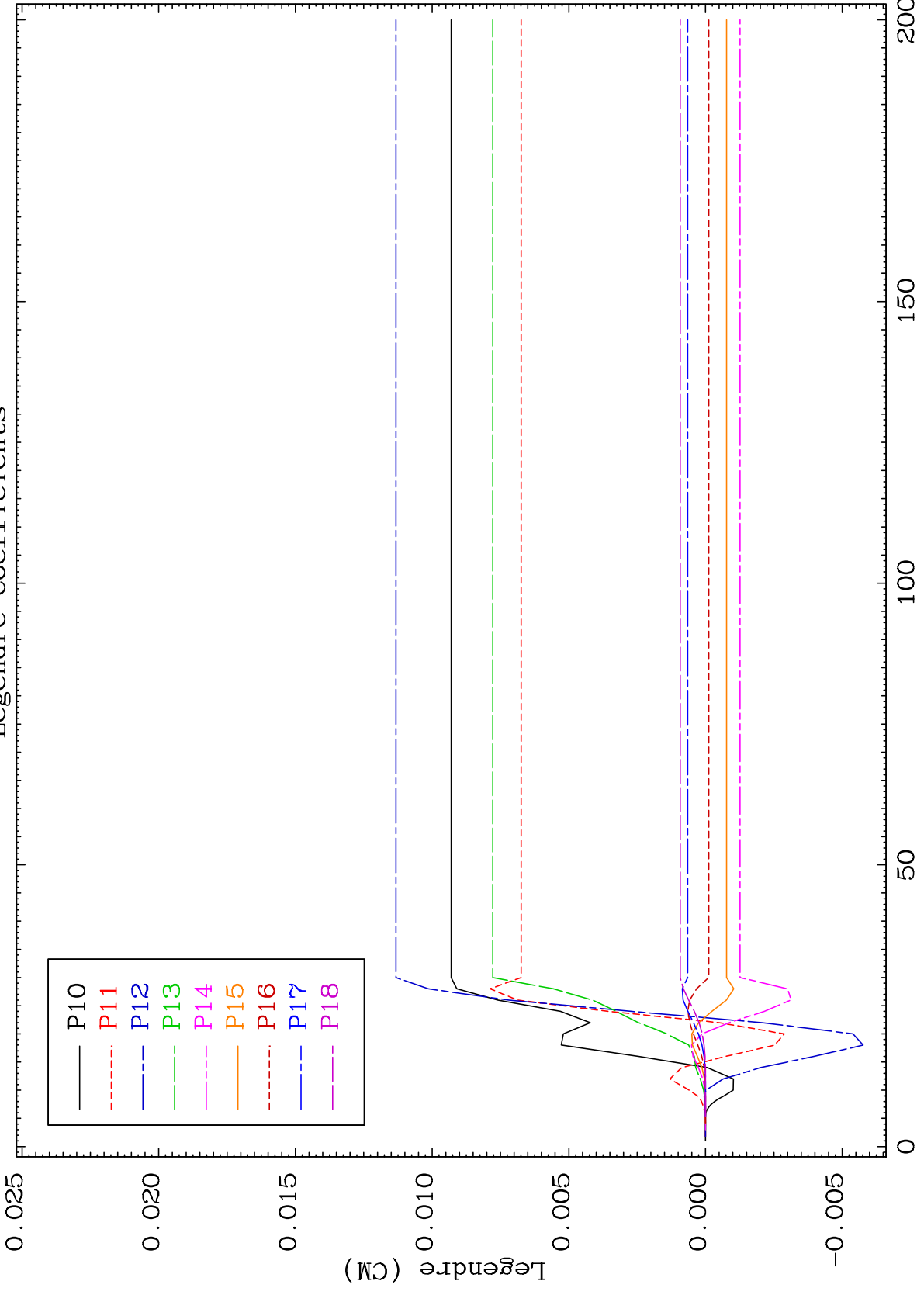
41-Nb-90



31

41-Nb-90

MAT 4116 MT= 55 (n,n') Level Legendre Coefficients 41-Nb-90



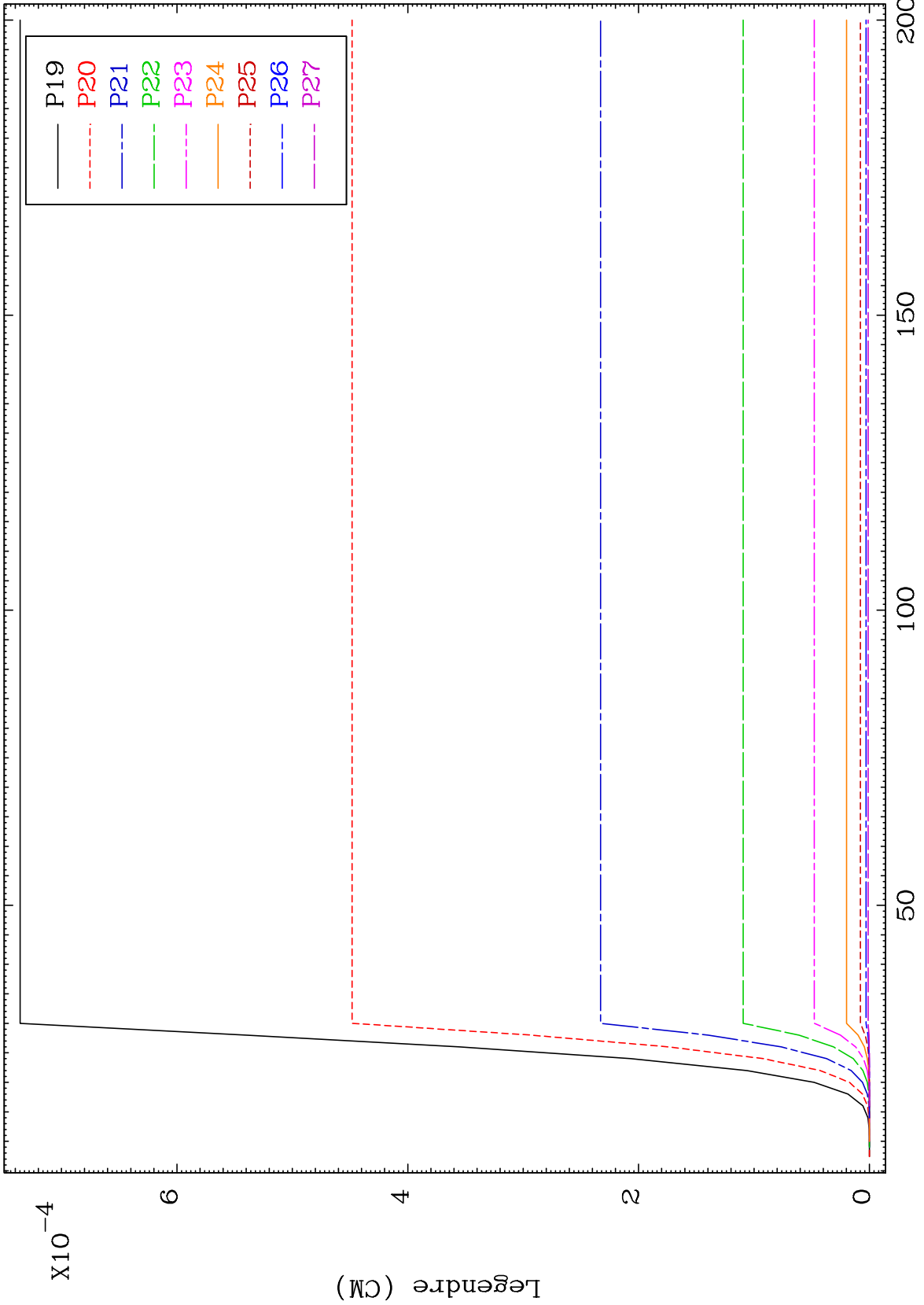
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Incident Energy (MeV)

MAT 4116

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

41-Nb-90



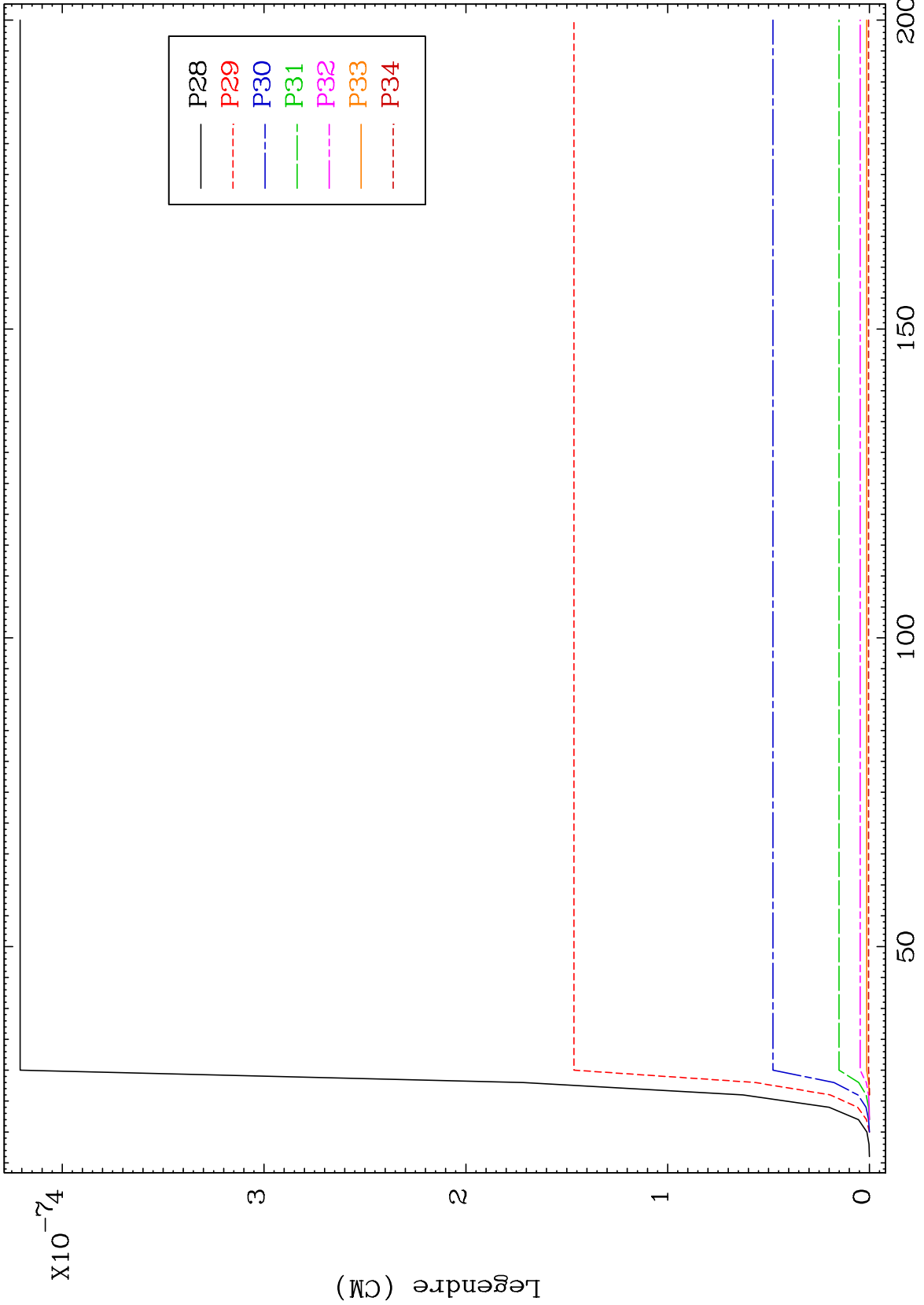
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41-Nb-90

MAT 4116

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

41-Nb-90



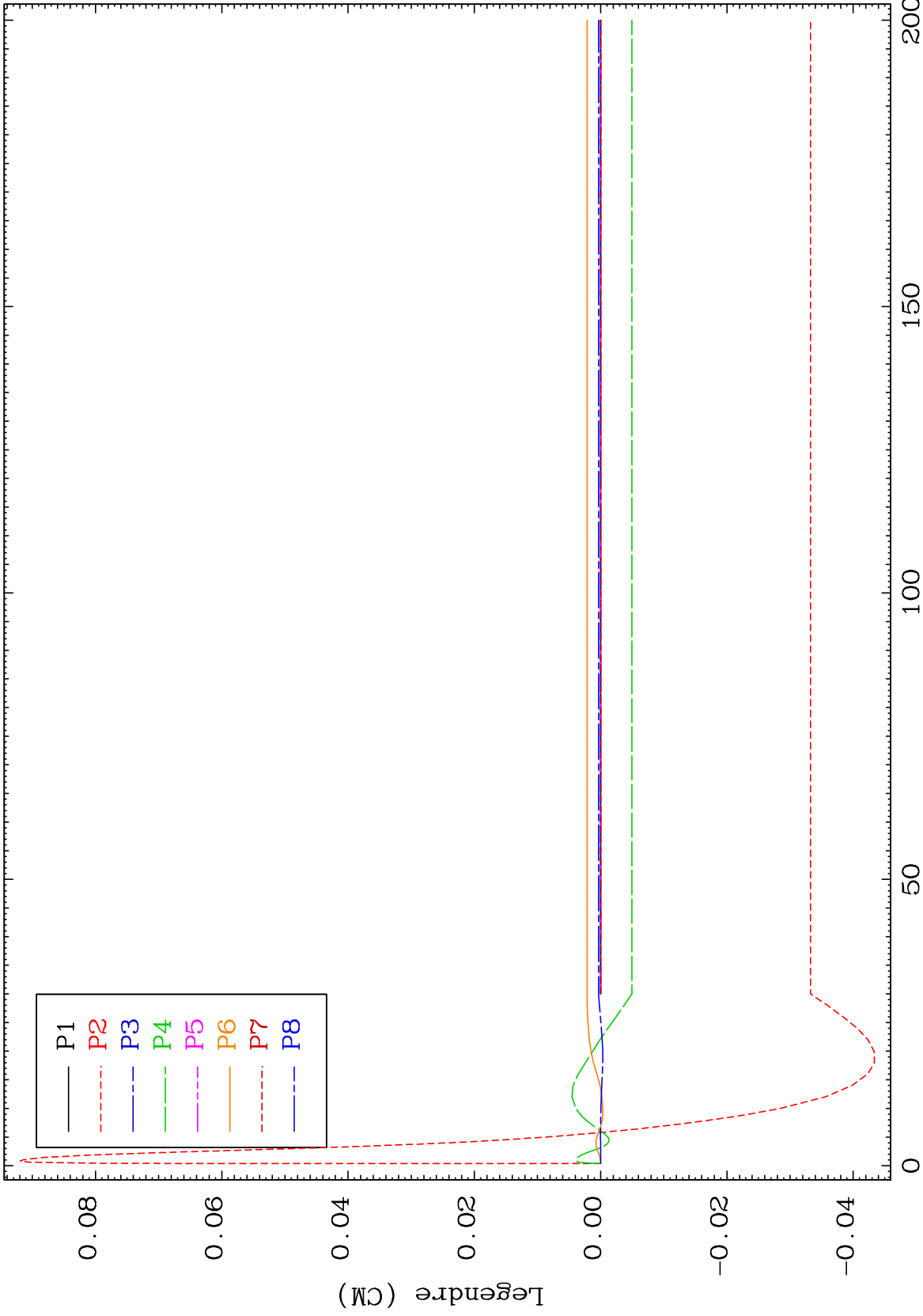
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41-Nb-90

MAT 4116

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

41-Nb-90

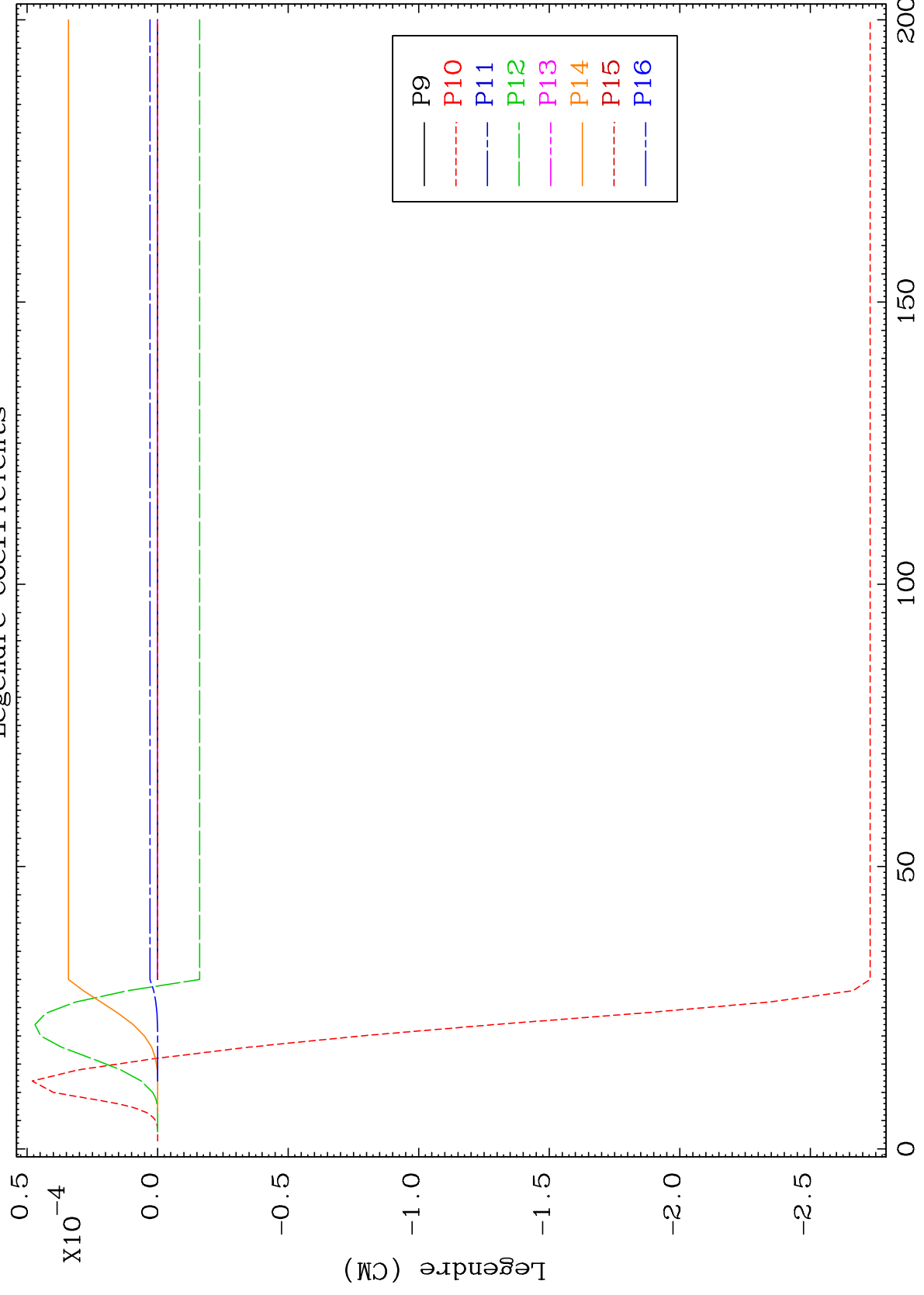


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Incident Energy (MeV)

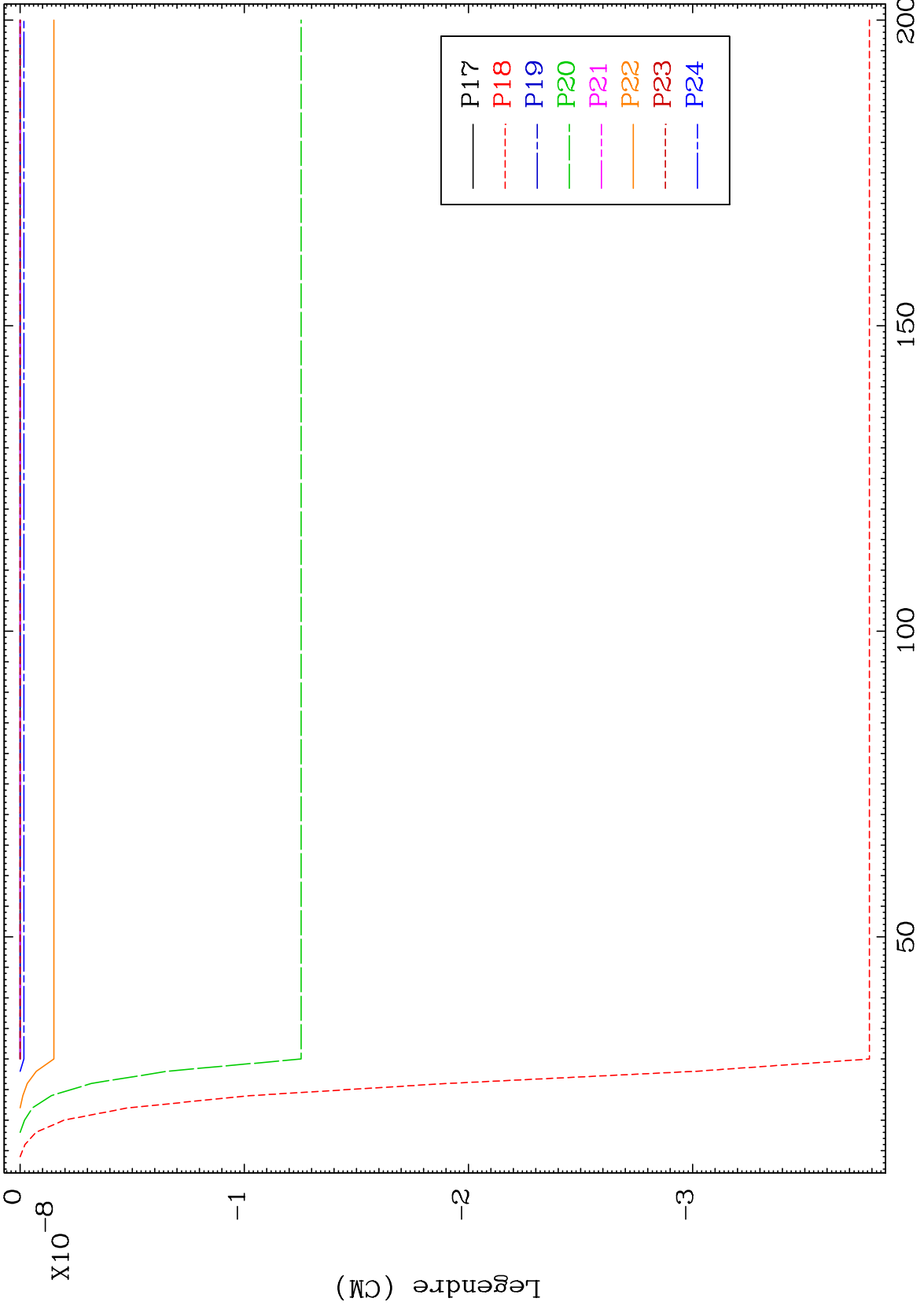
41-Nb-90

MAT 4116 MT= 56 (n,n') Level Legendre Coefficients 41-Nb-90



36 41-Nb-90

MAT 4116 MT= 56 (n,n') Level Legendre Coefficients 41-Nb-90

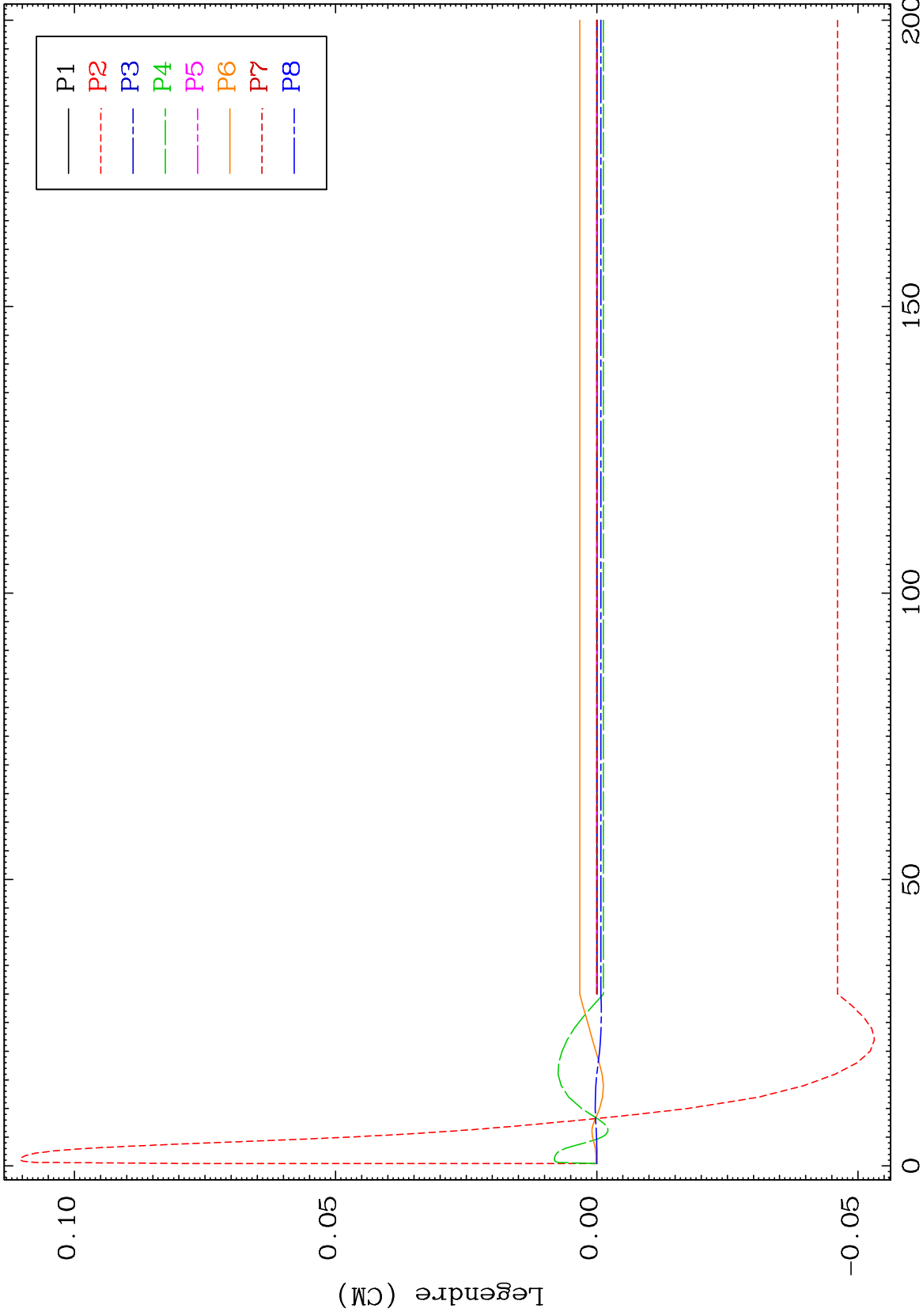


37 41-Nb-90

MAT 4116

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

41-Nb-90



38

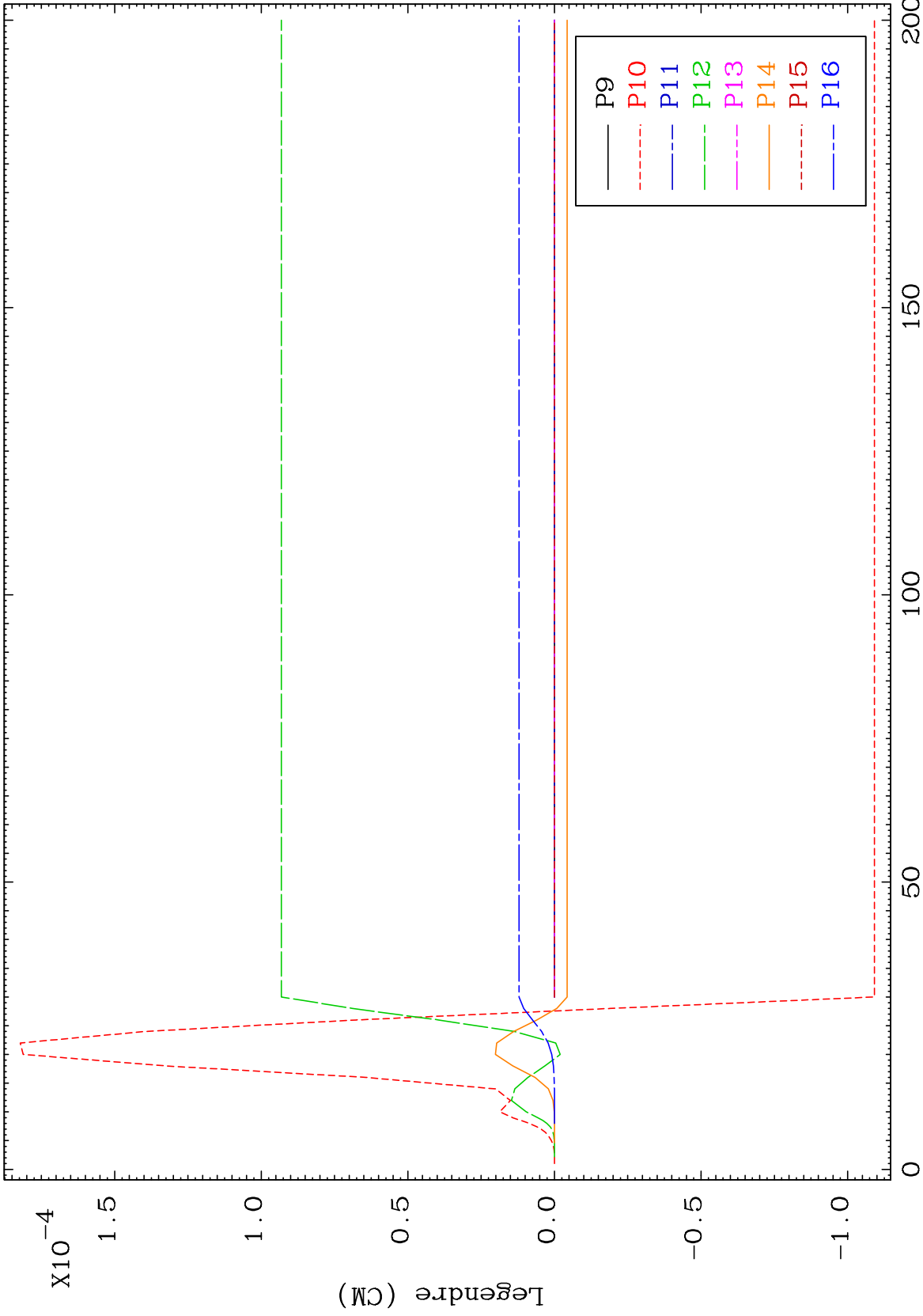
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90

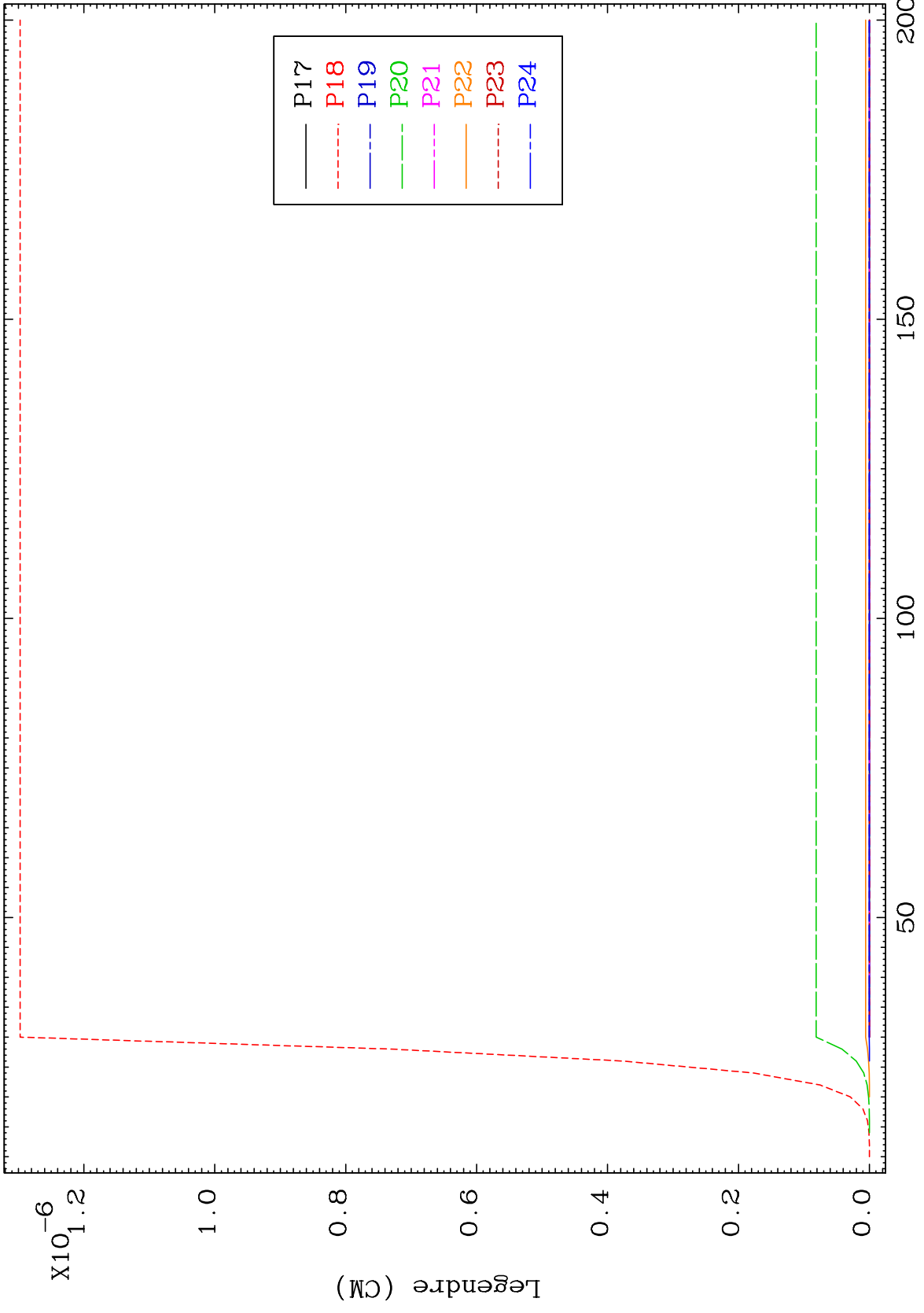


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Incident Energy (MeV)

41-Nb-90

MAT 4116 MT= 57 (n,n') Level Legendre Coefficients 41-Nb-90

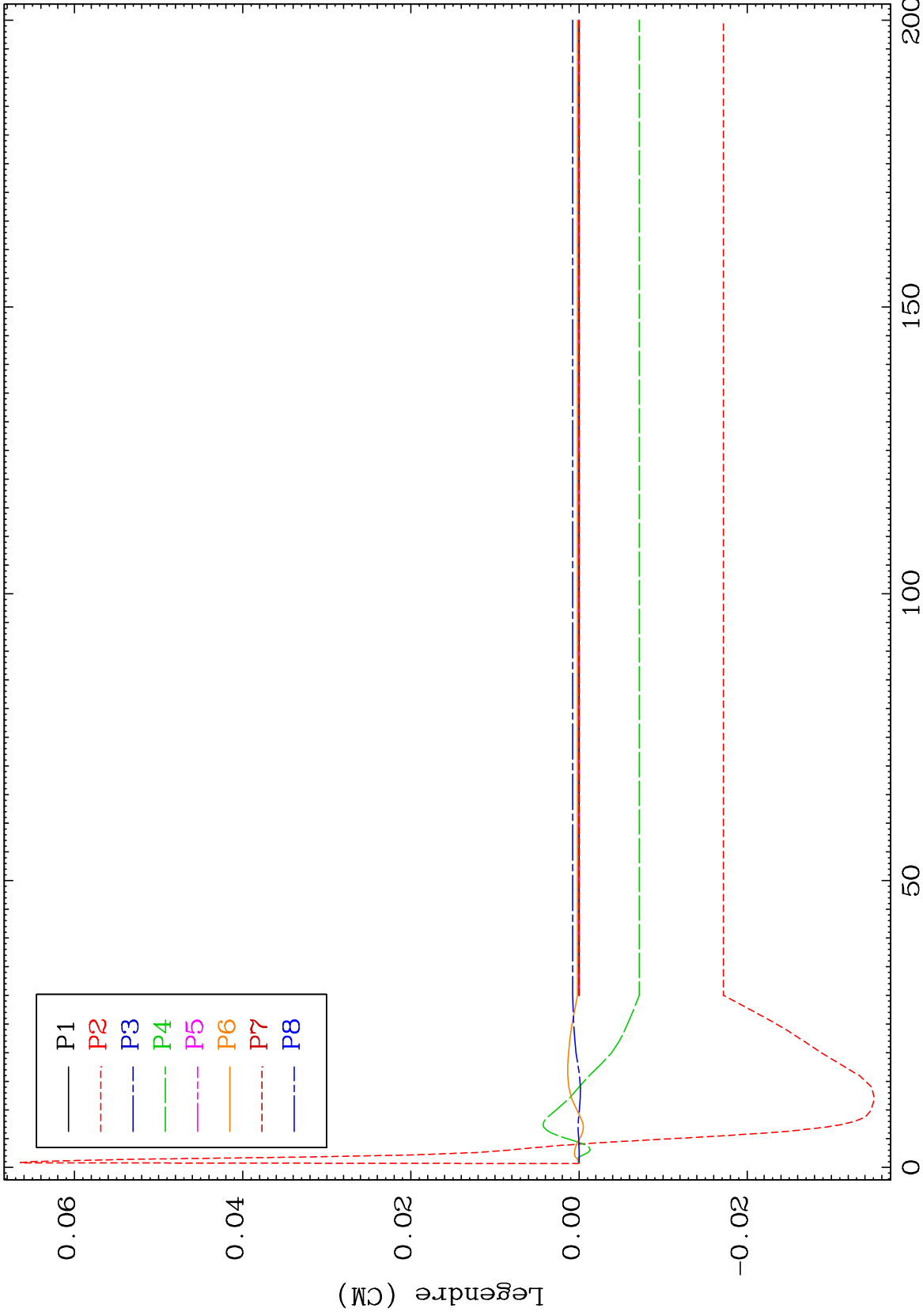


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MAT 4116

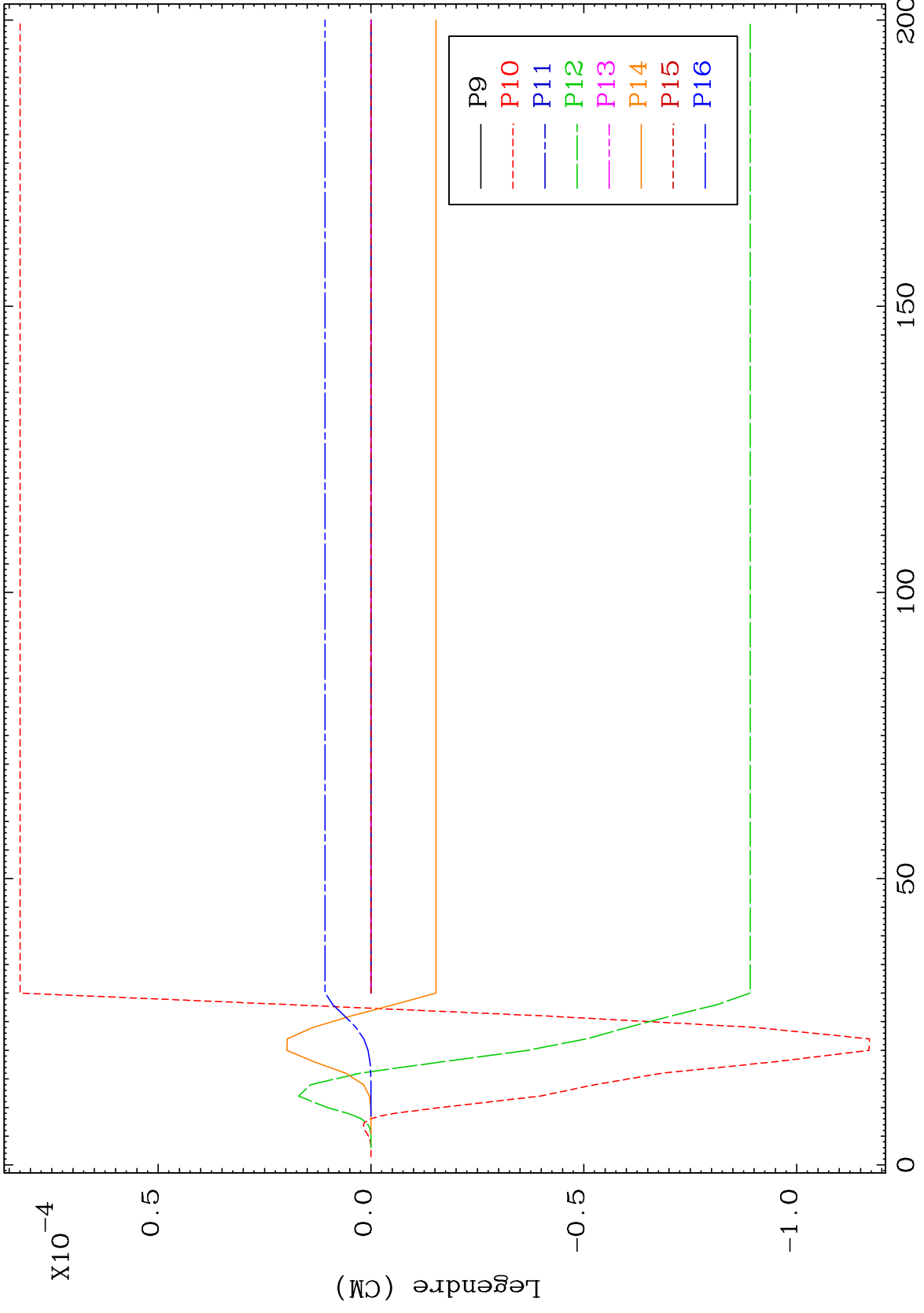
MT= 58 (n,n') Level
Legendre Coefficients

41-Nb-90



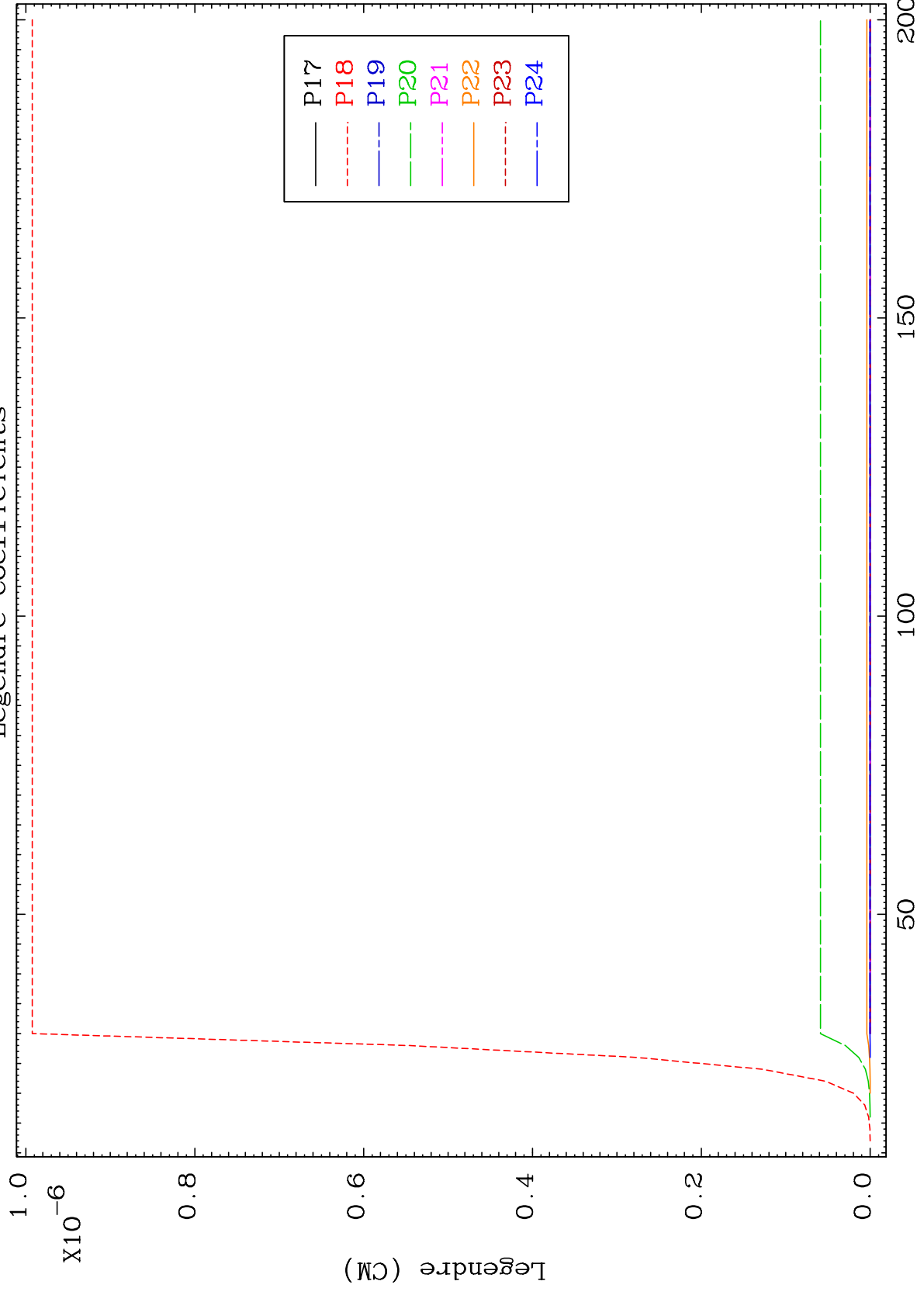
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MAT 4116 MT= 58 (n,n') Level Legendre Coefficients 41-Nb-90



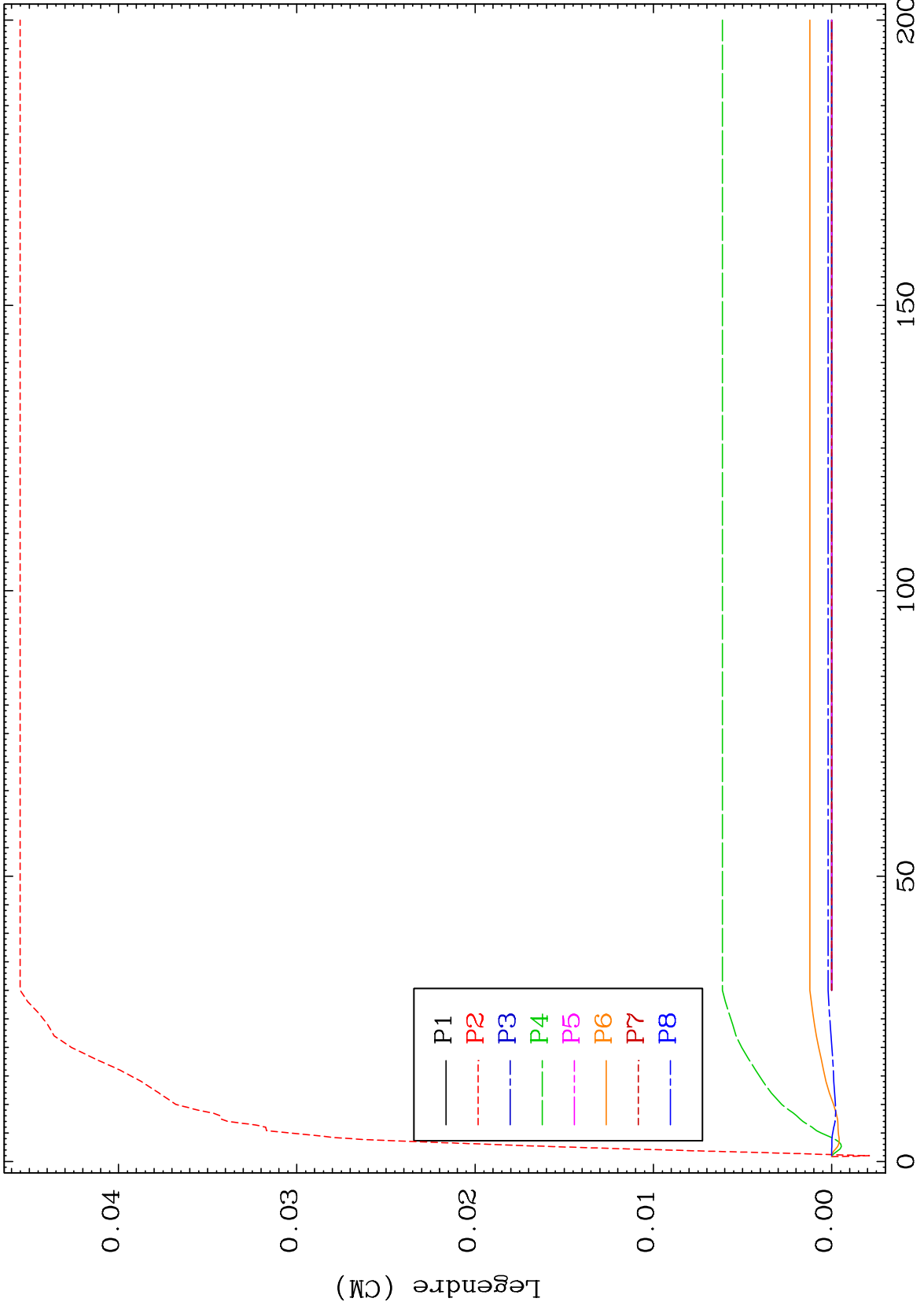
42 41-Nb-90

MAT 4116 MT= 58 (n,n') Level Legendre Coefficients 41-Nb-90



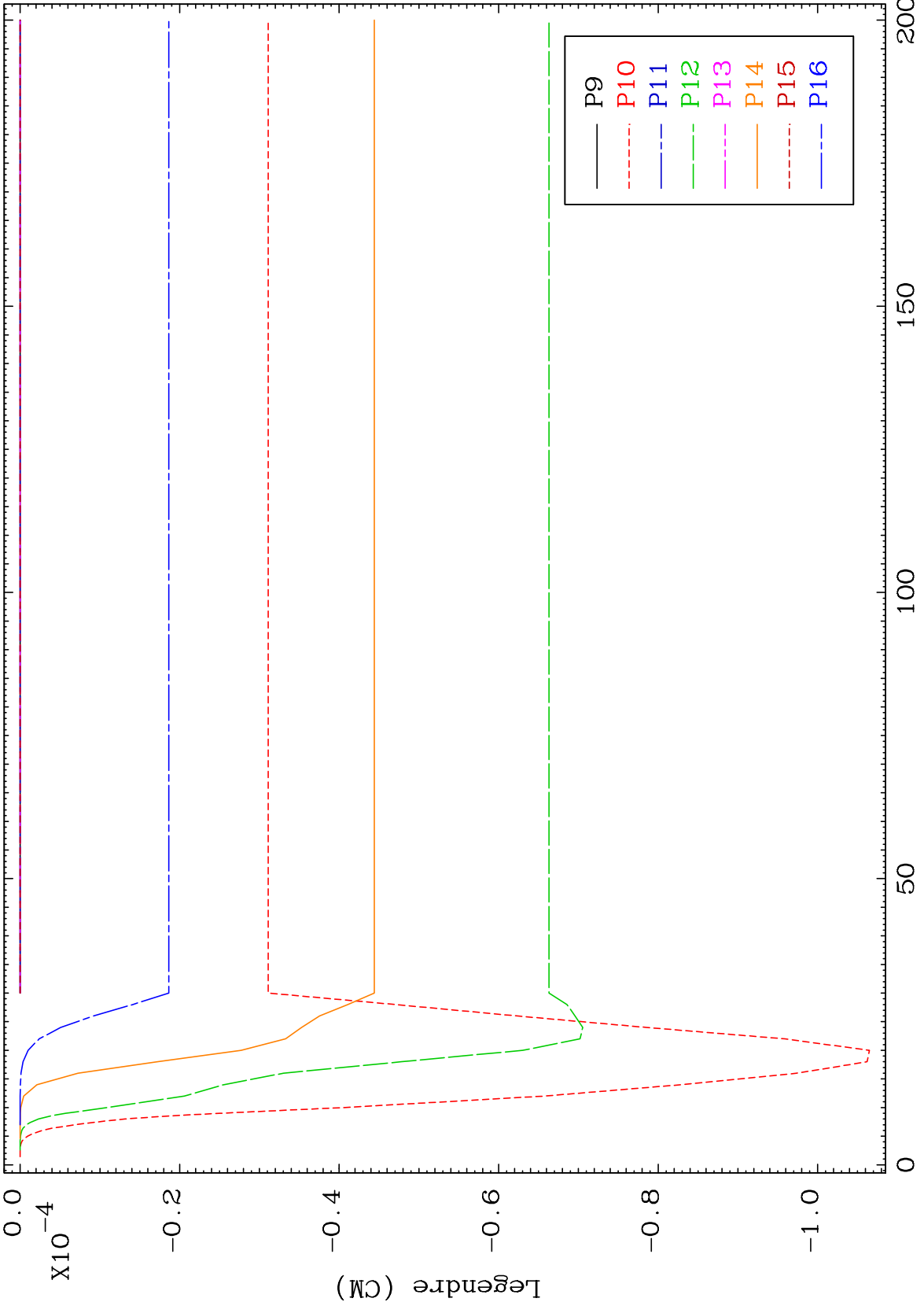
43 41-Nb-90

MAT 4116 MT= 59 (n,n') Level Legendre Coefficients 41-Nb-90



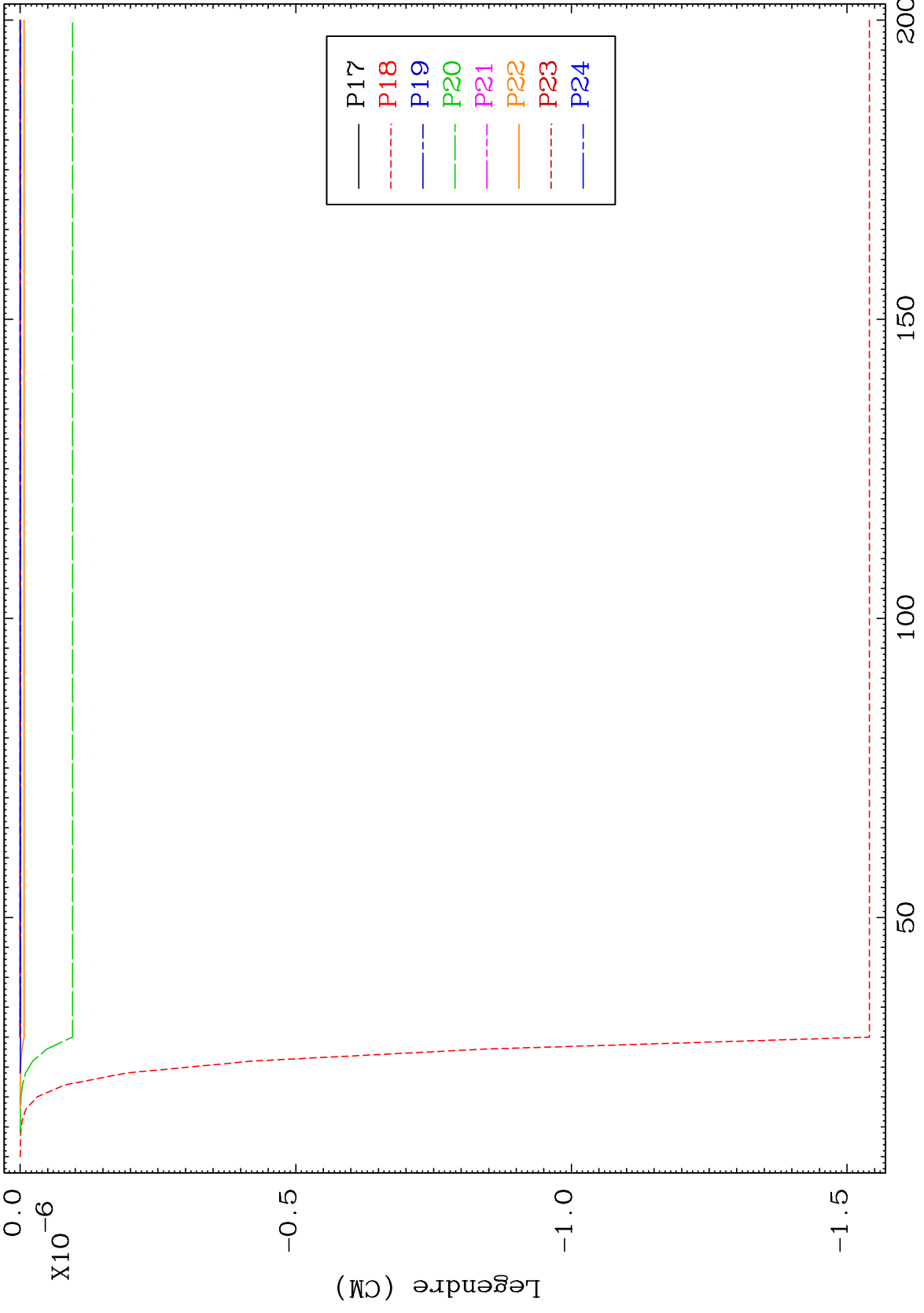
44 41-Nb-90

MAT 4116 MT= 59 (n, n') Level Legendre Coefficients 41-Nb-90



45 41-Nb-90

MAT 4116 MT= 59 (n,n') Level Legendre Coefficients 41-Nb-90

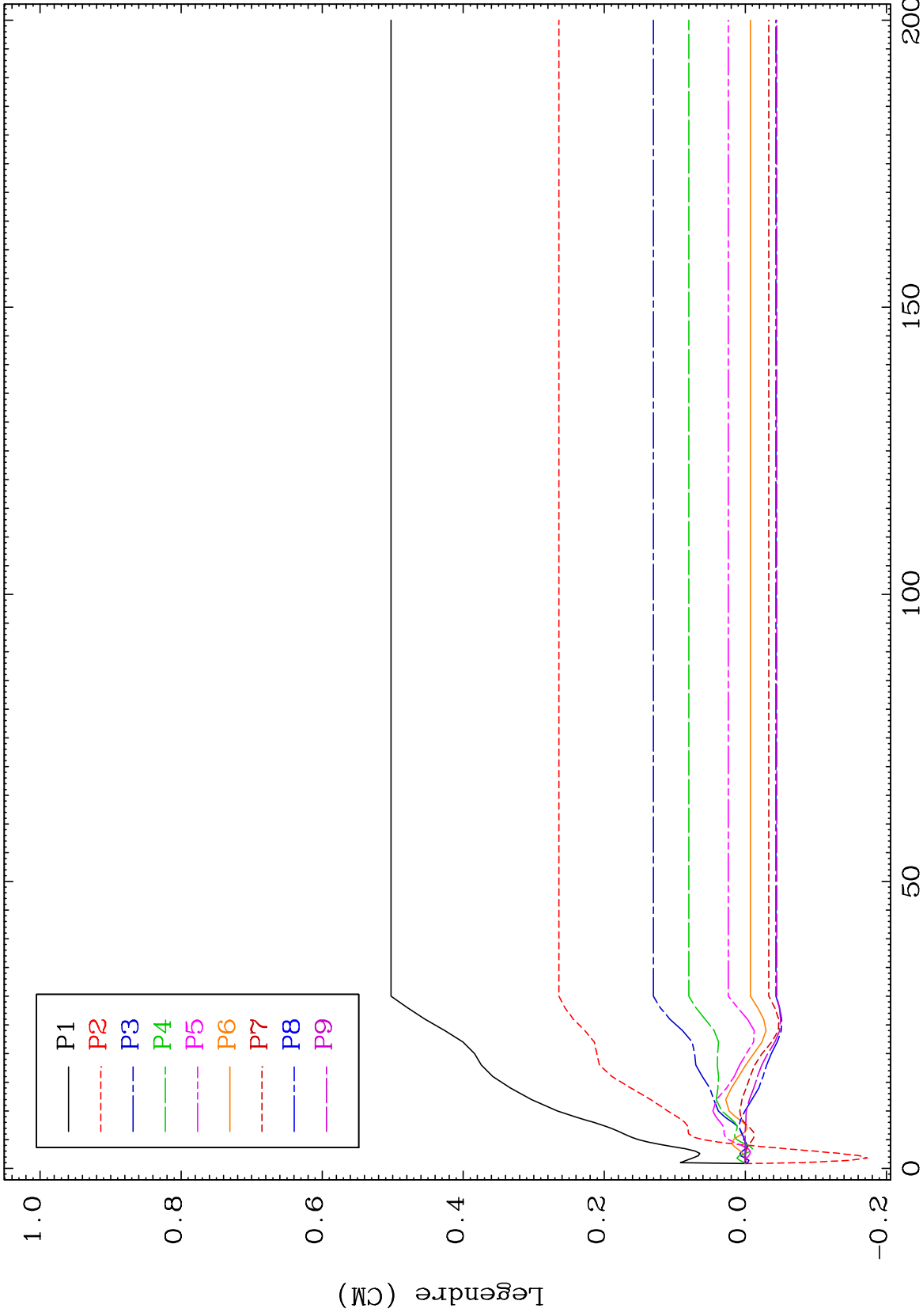


46 Incident Energy (MeV) 41-Nb-90

MAT 4116

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

41-Nb-90



47

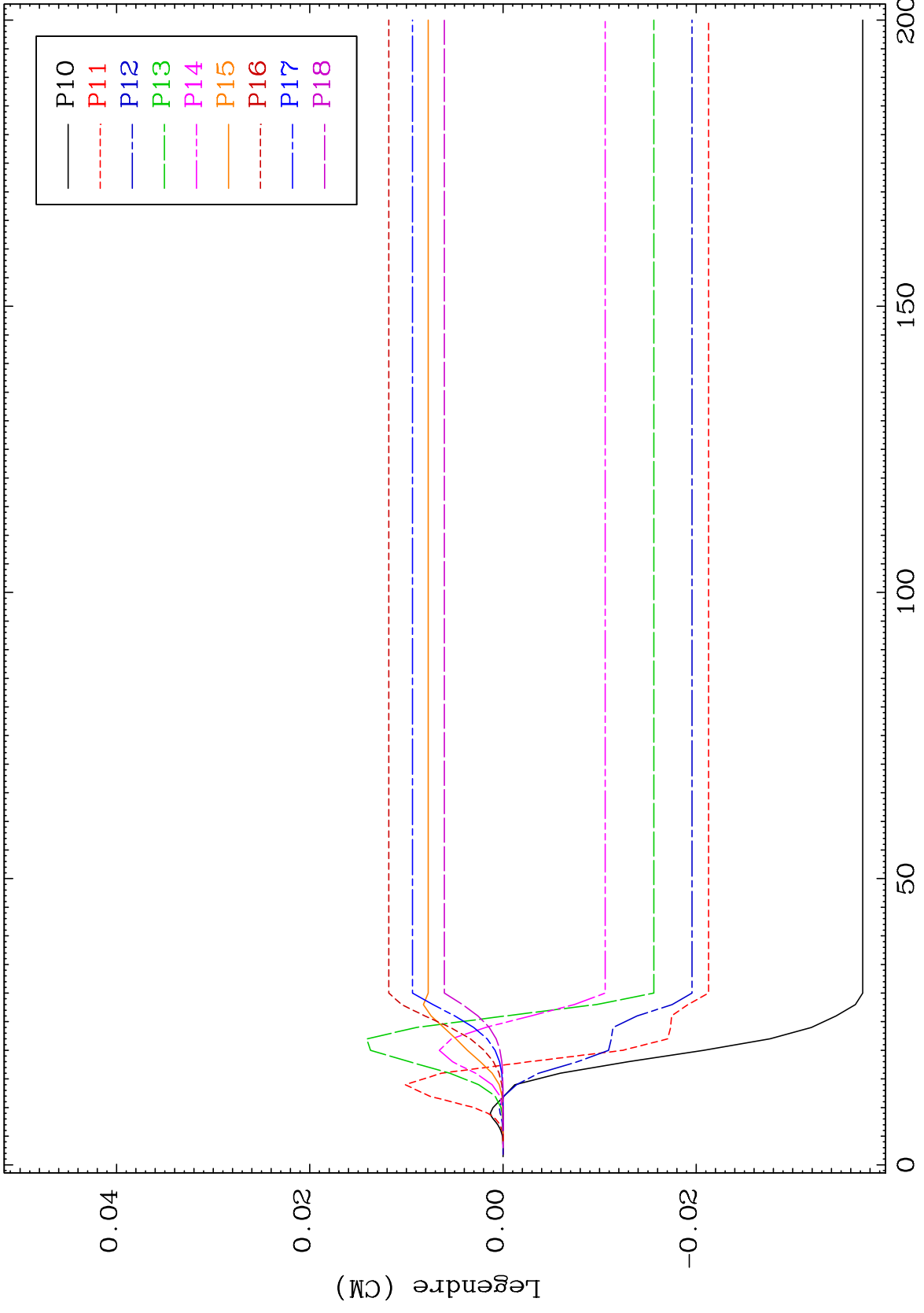
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90

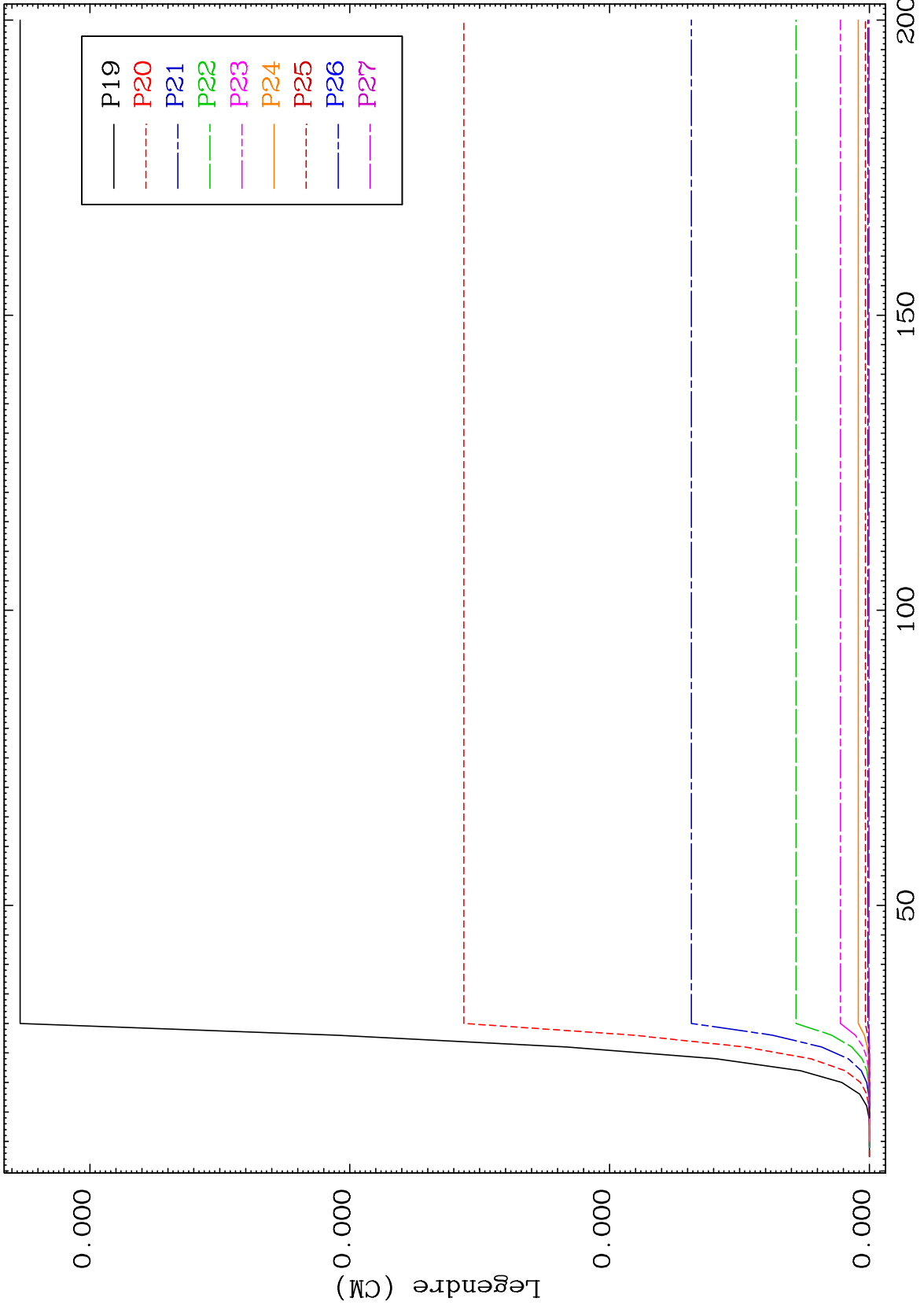


48

Incident Energy (MeV)

41-Nb-90

MAT 4116 MT= 60 (n,n') Level Legendre Coefficients 41-Nb-90

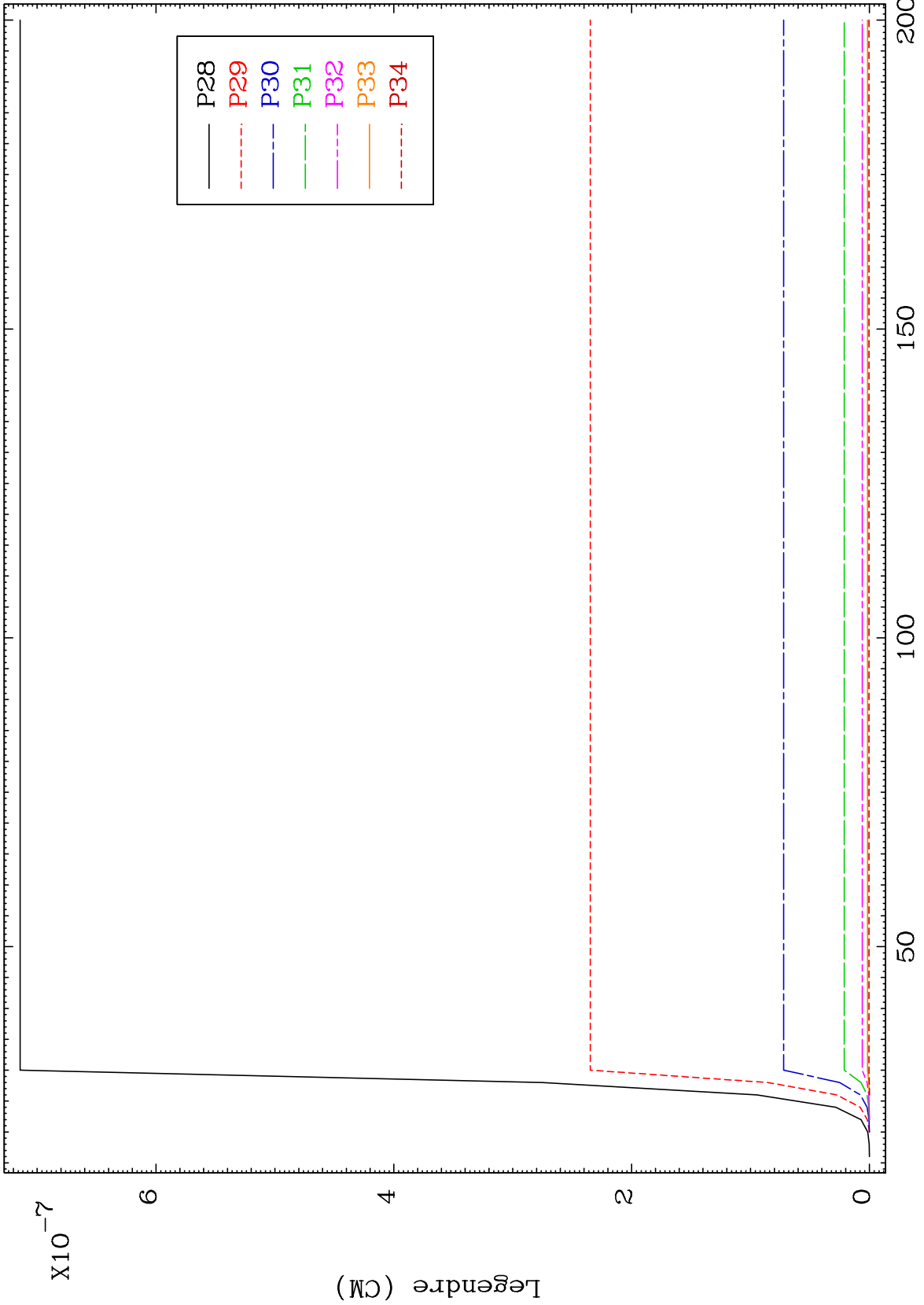


49 41-Nb-90

MAT 4116

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

41-Nb-90



50

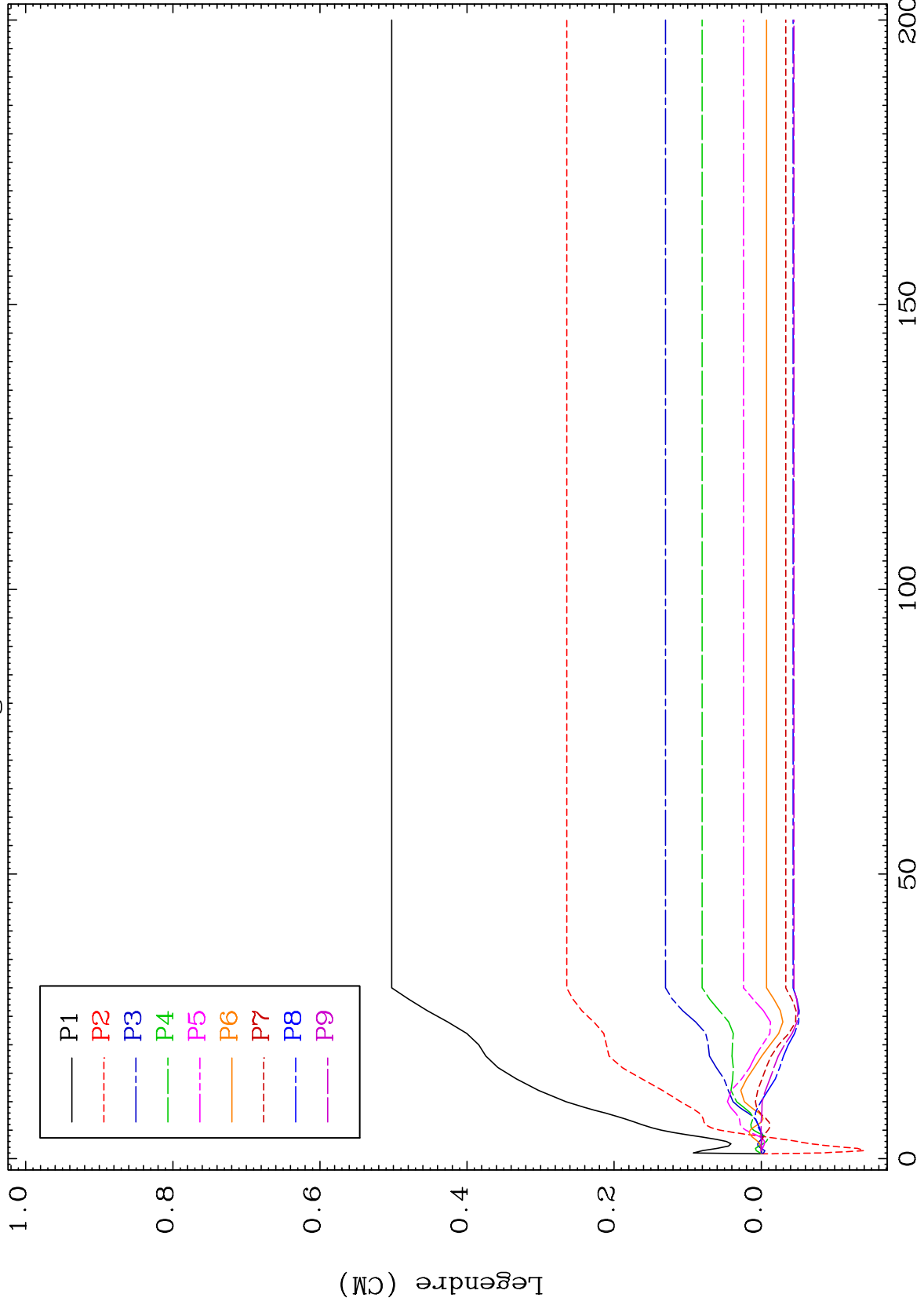
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90



51

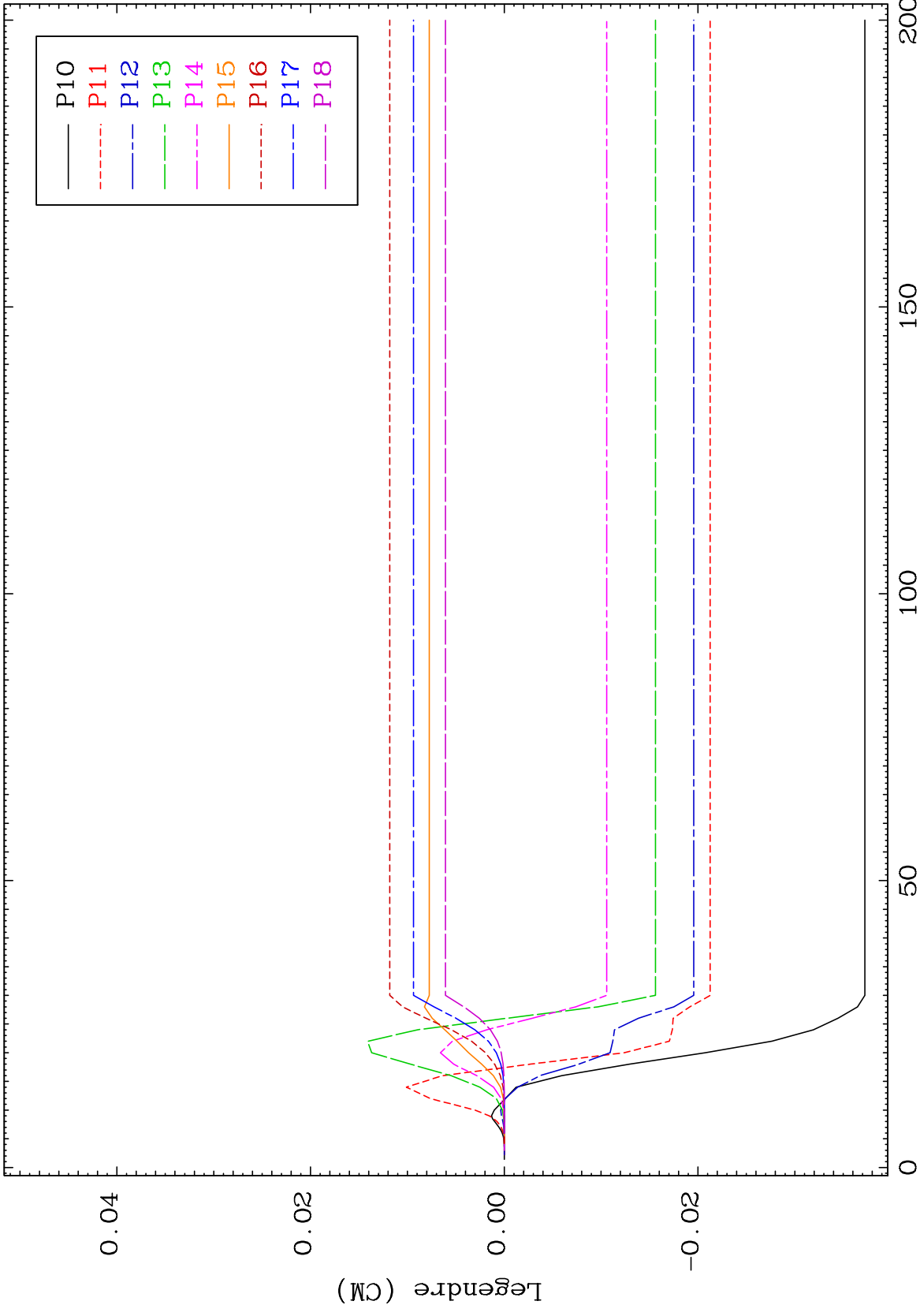
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90

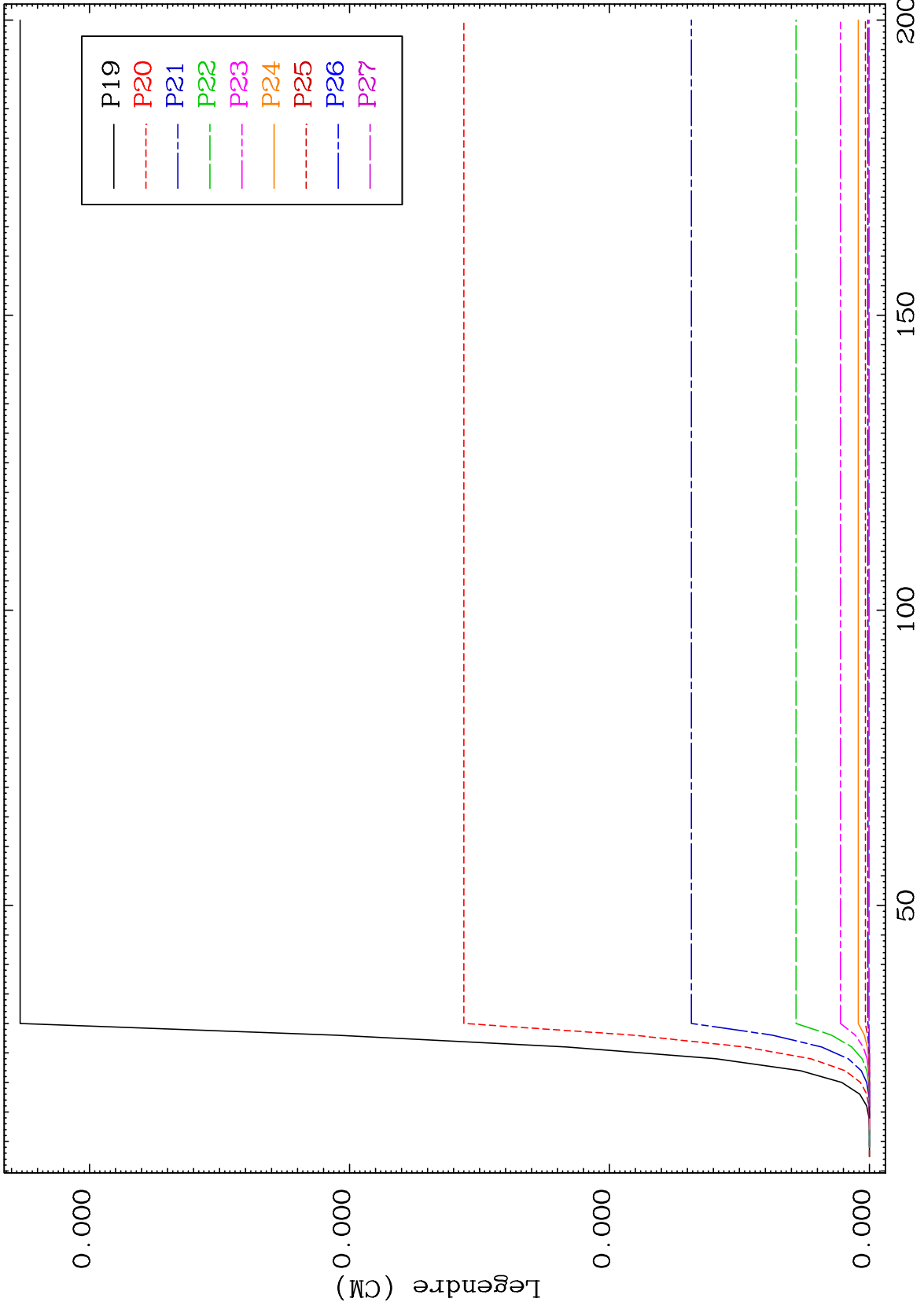


52

Incident Energy (MeV)

41-Nb-90

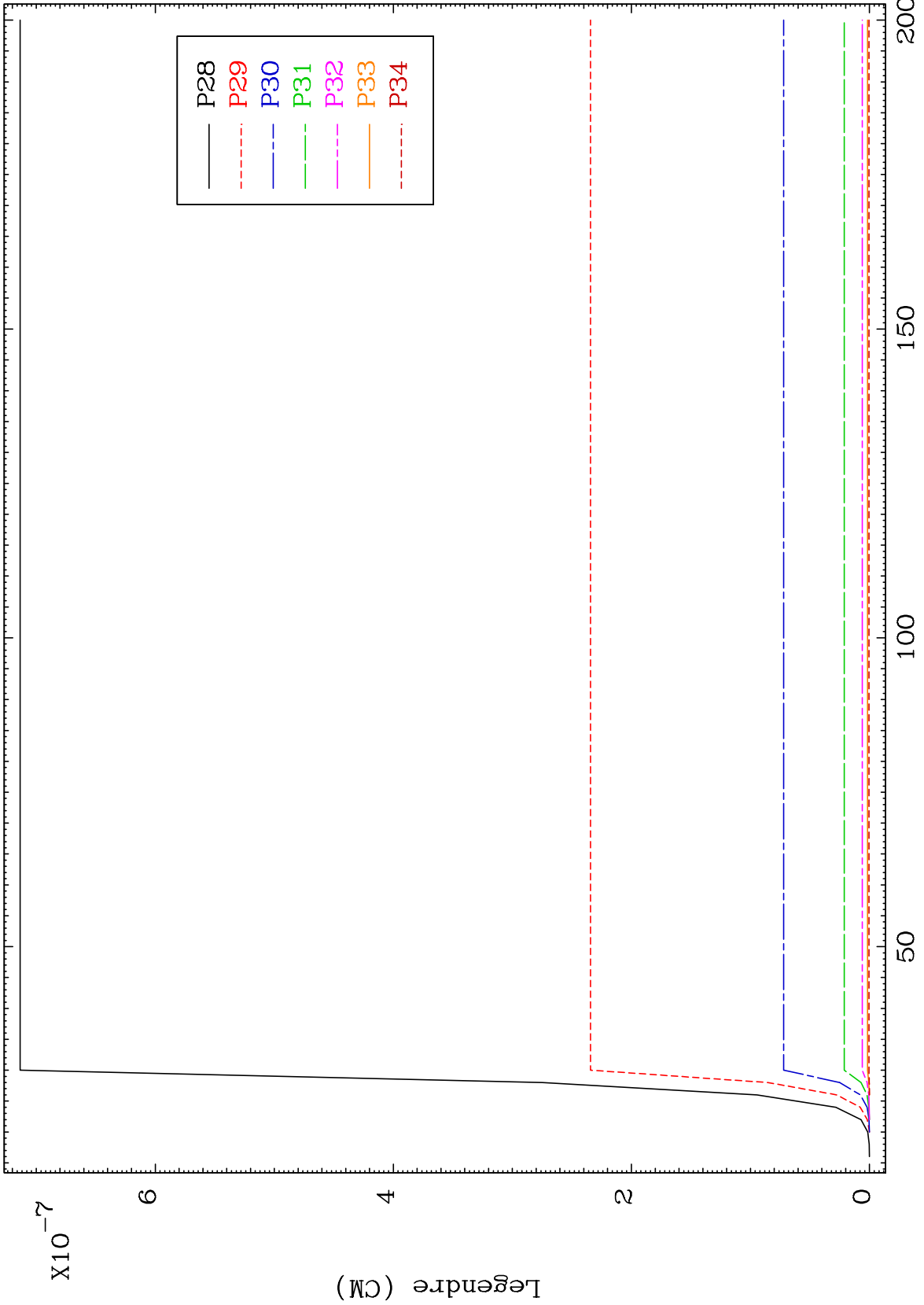
MAT 4116 MT= 61 (n,n') Level Legendre Coefficients 41-Nb-90



MAT 4116

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

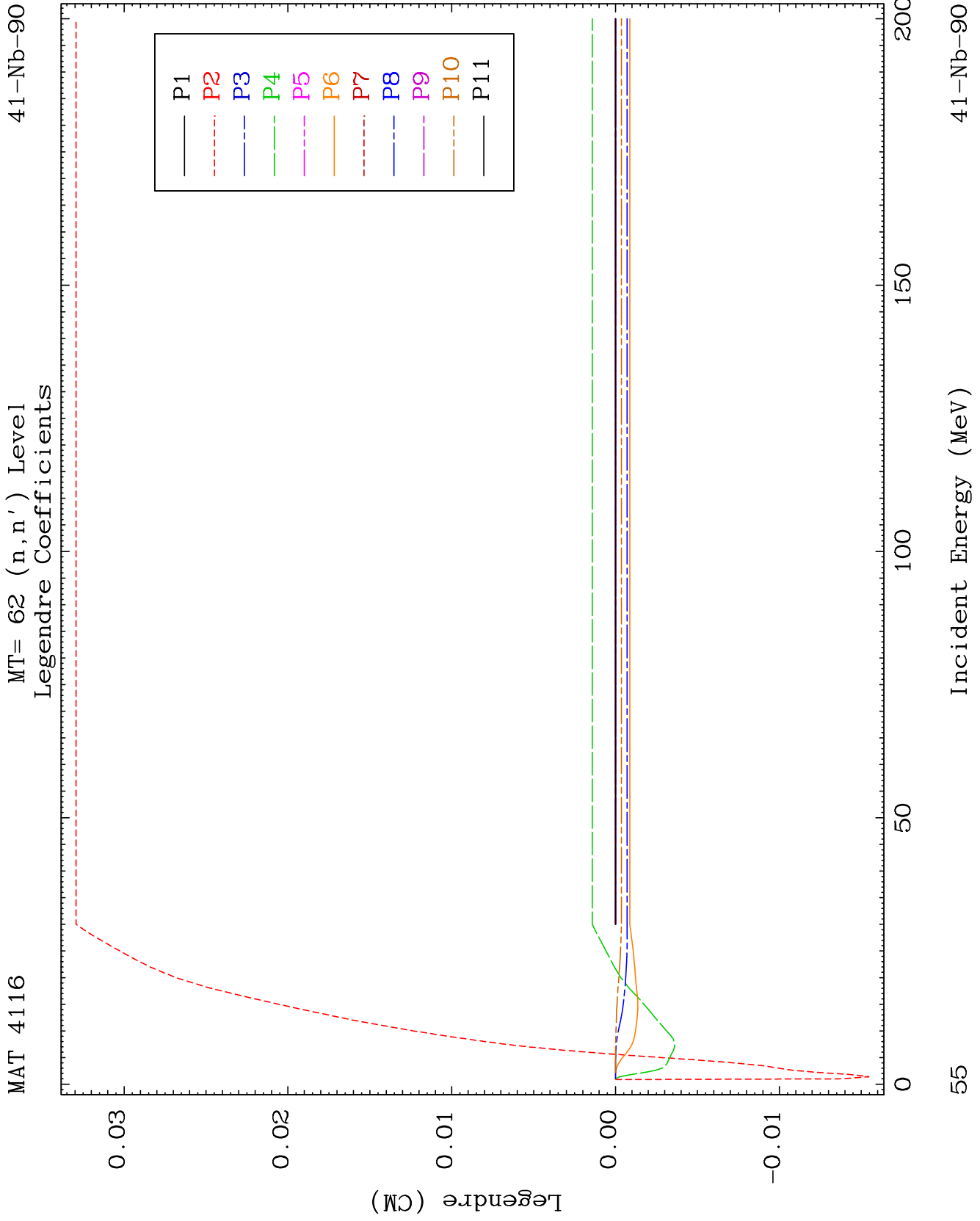
41-Nb-90

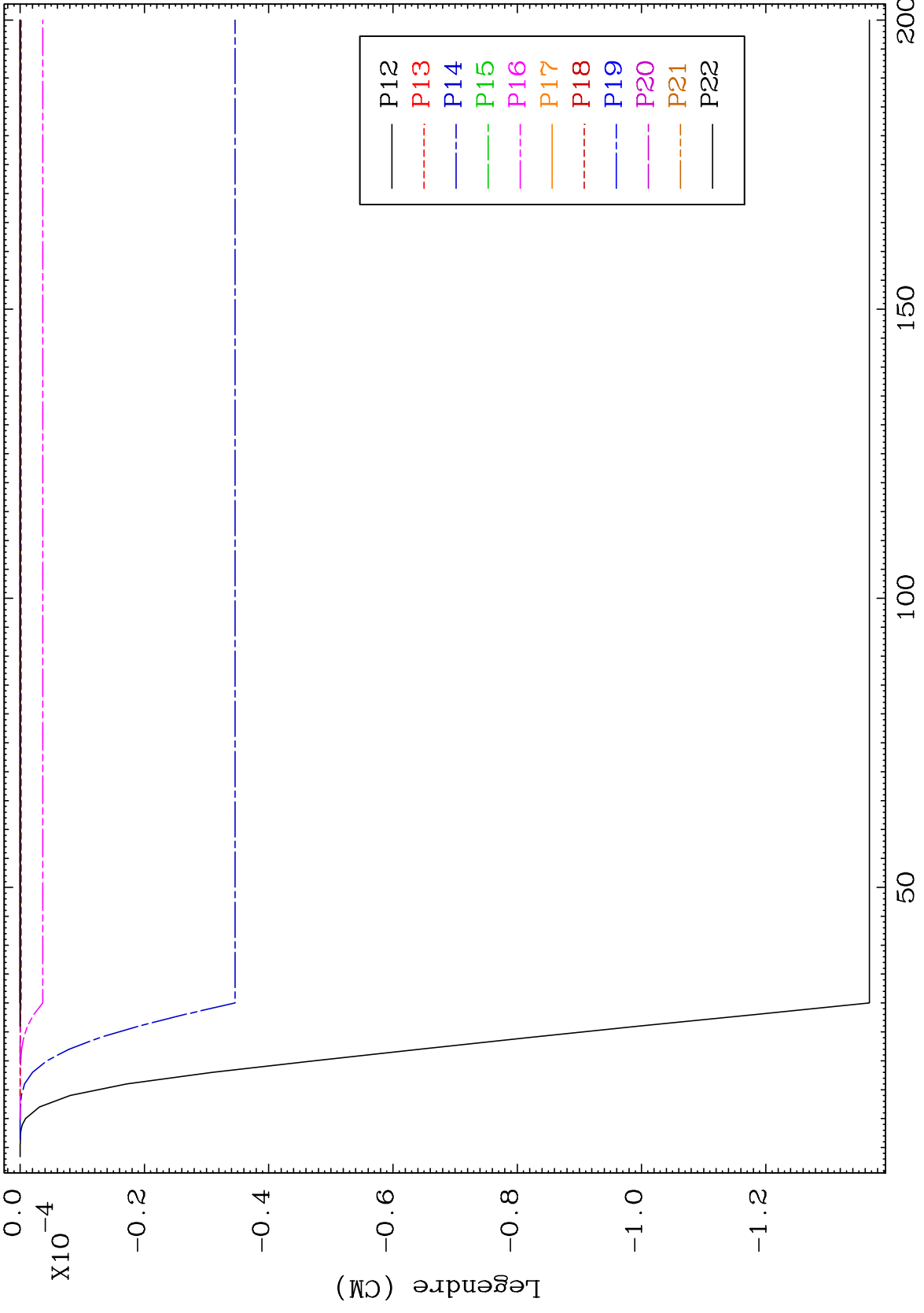


54

Incident Energy (MeV)

41-Nb-90

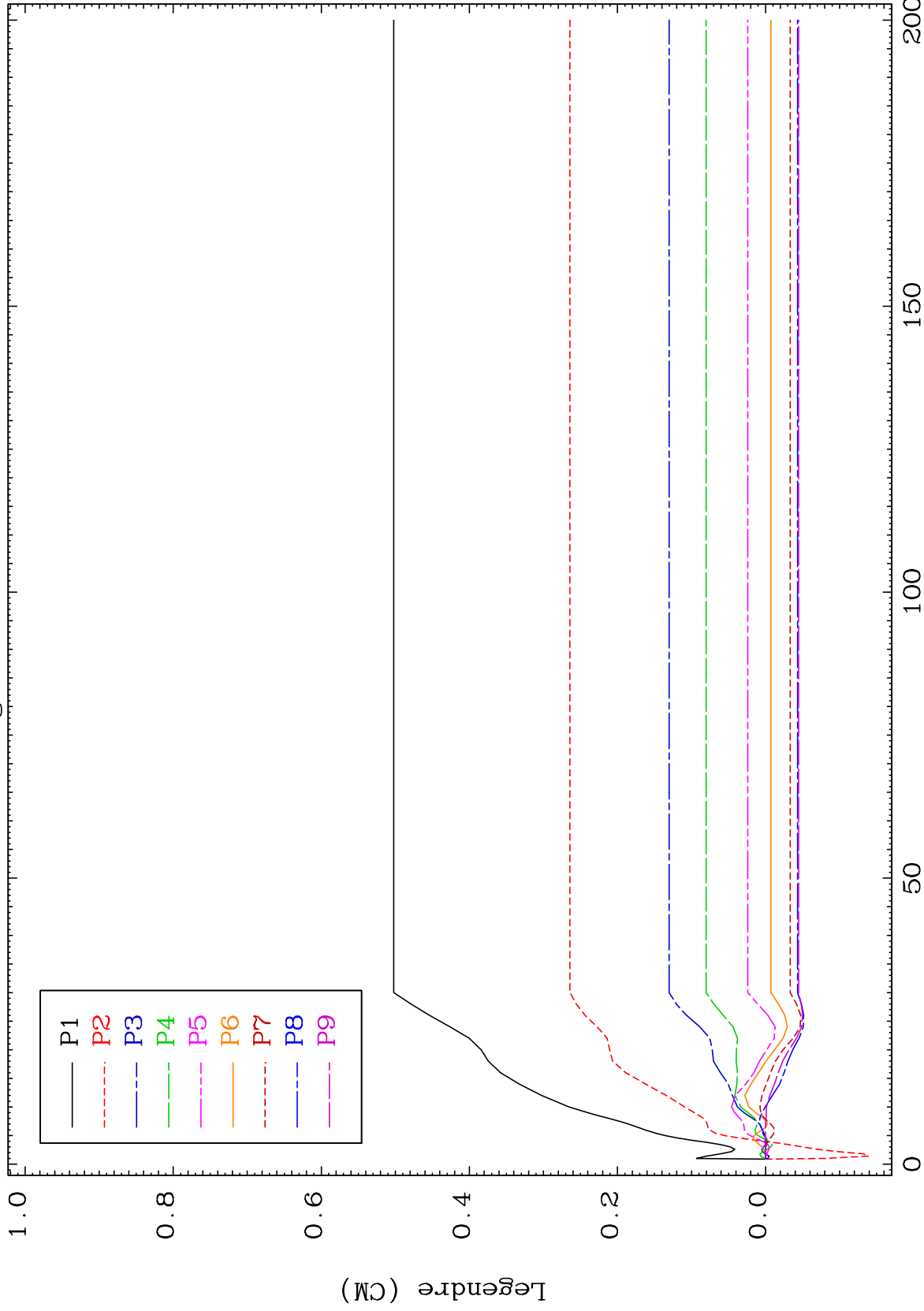




MAT 4116

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

41-Nb-90



57

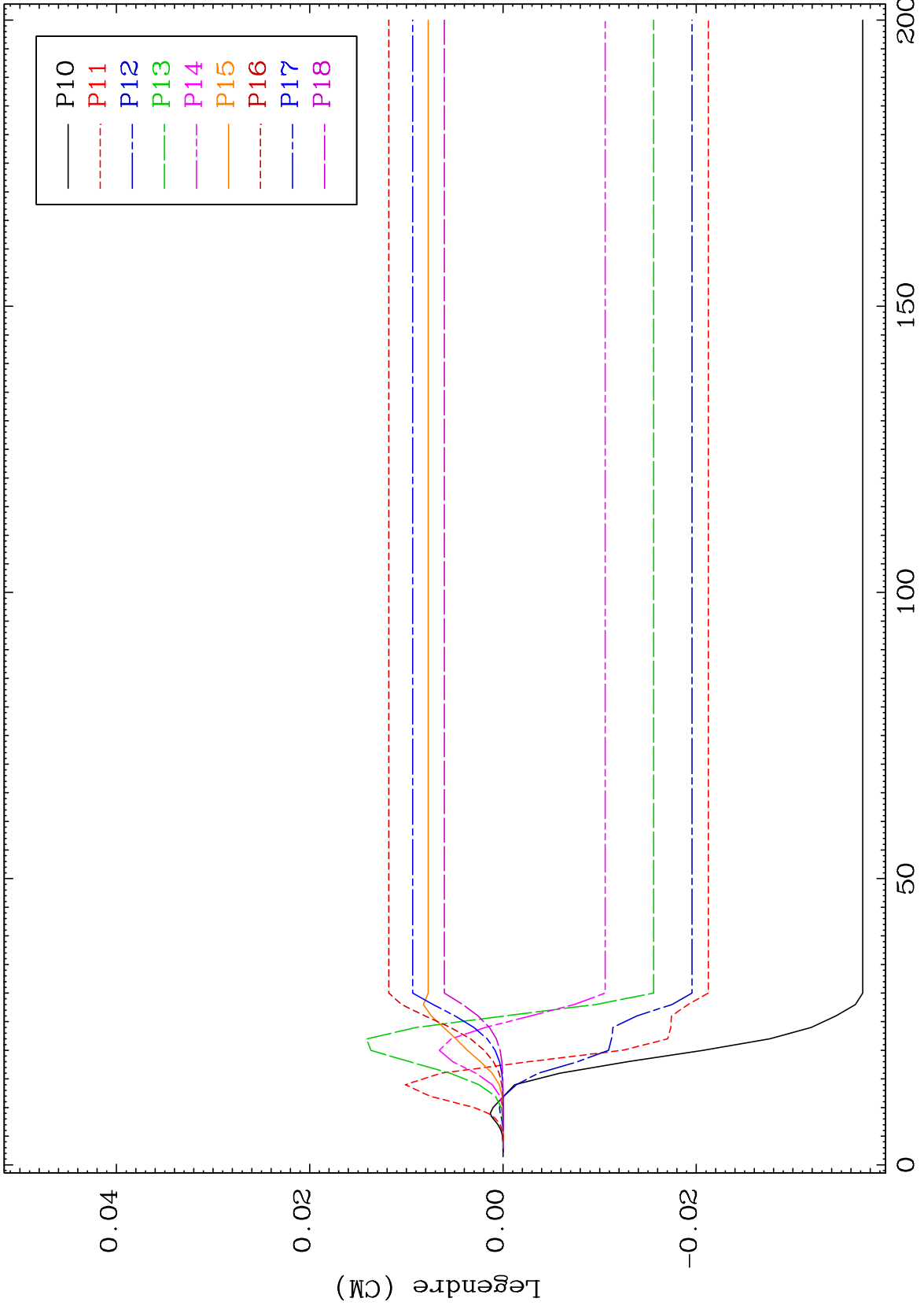
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90



58

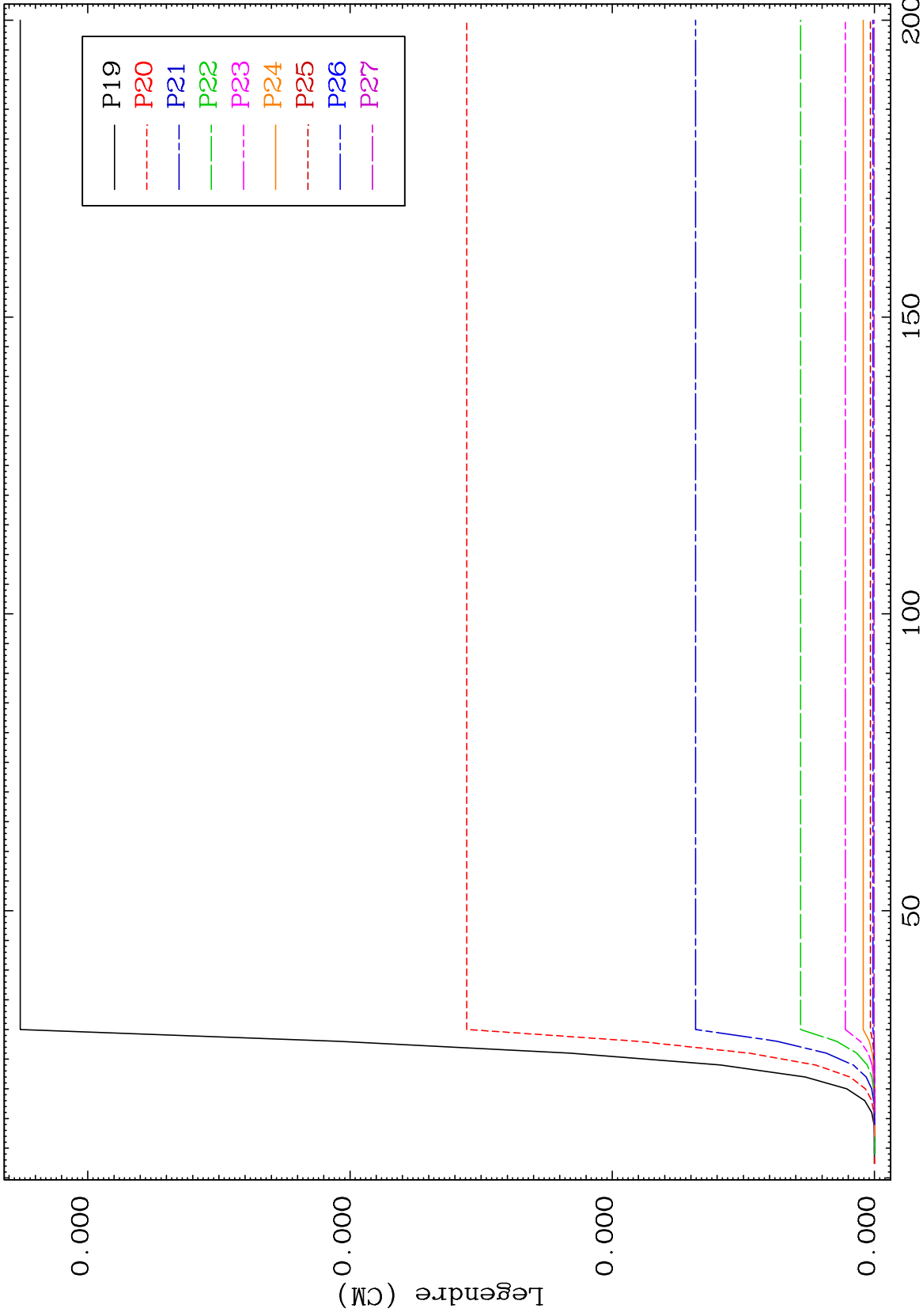
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90



59

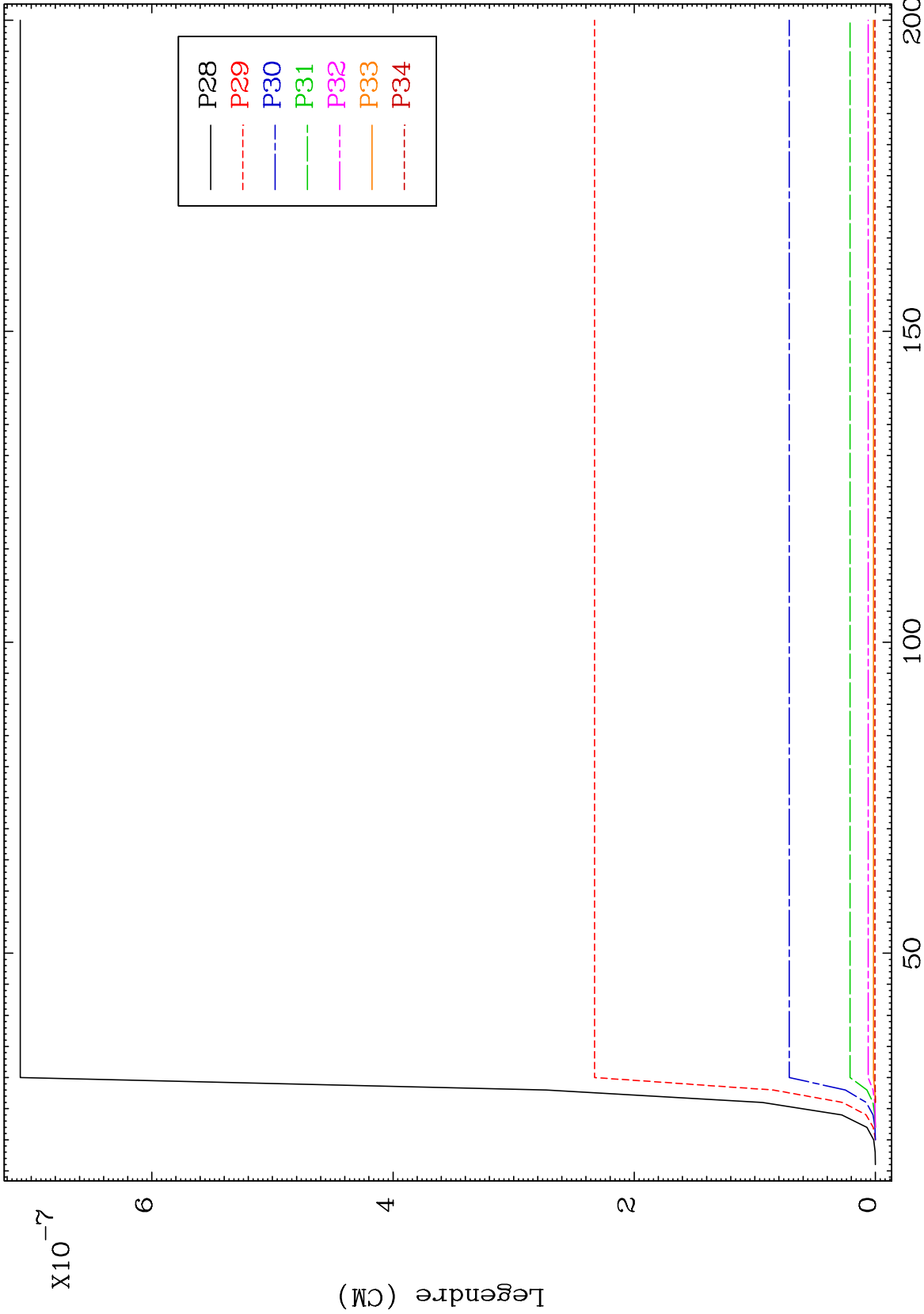
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

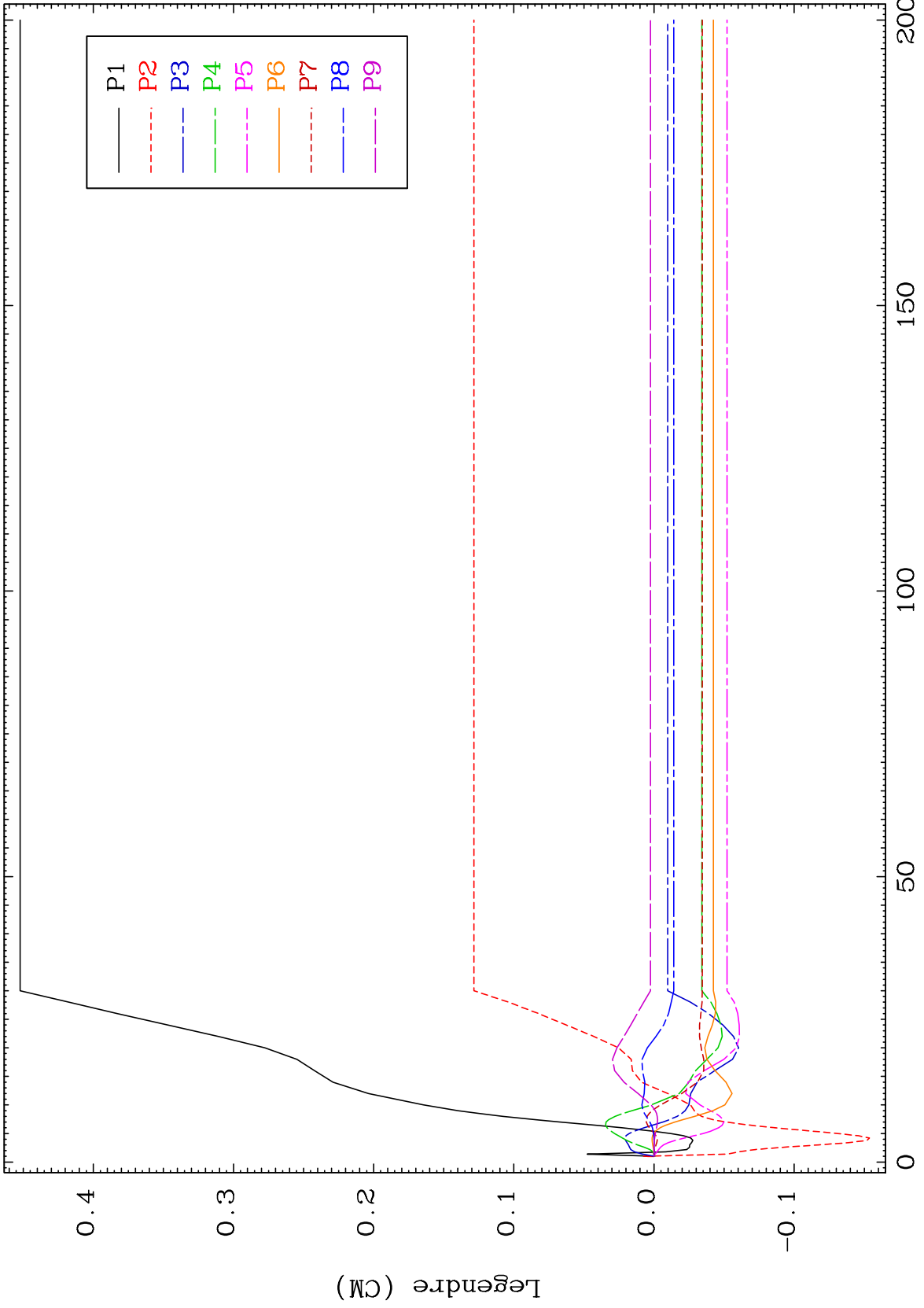
41-Nb-90



MAT 4116

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

41-Nb-90



61

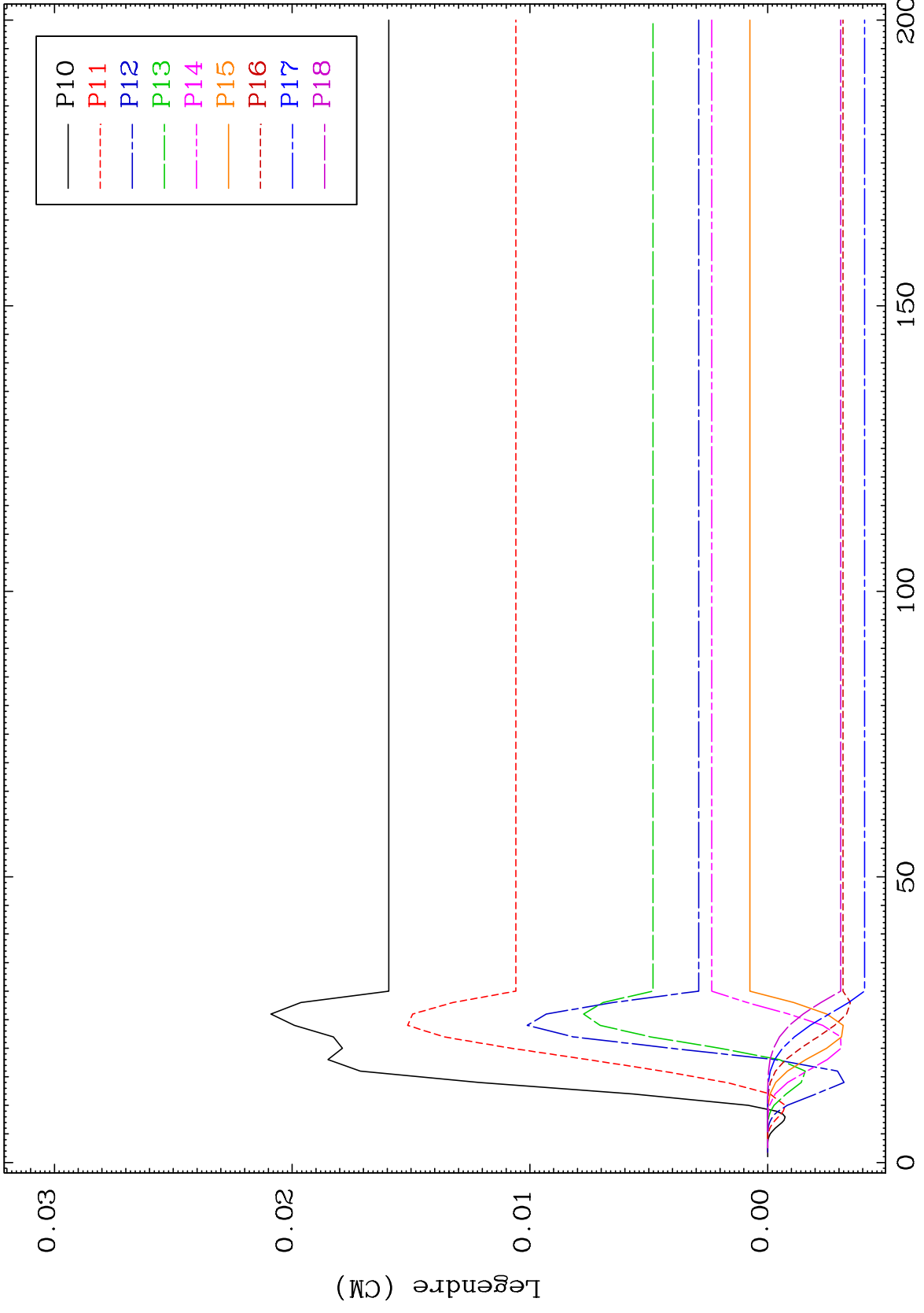
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90



62

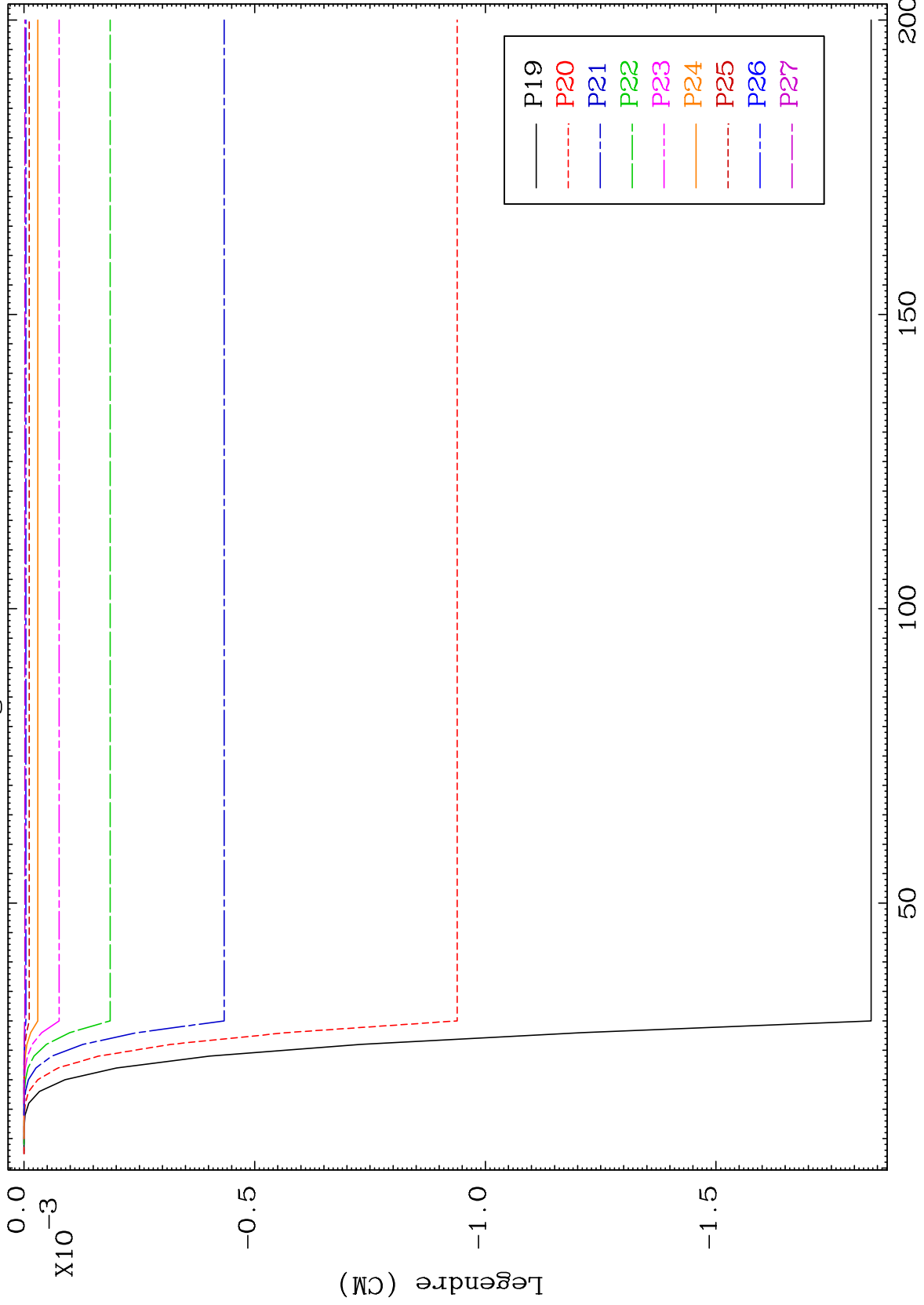
Incident Energy (MeV)

41-Nb-90

MAT 4116

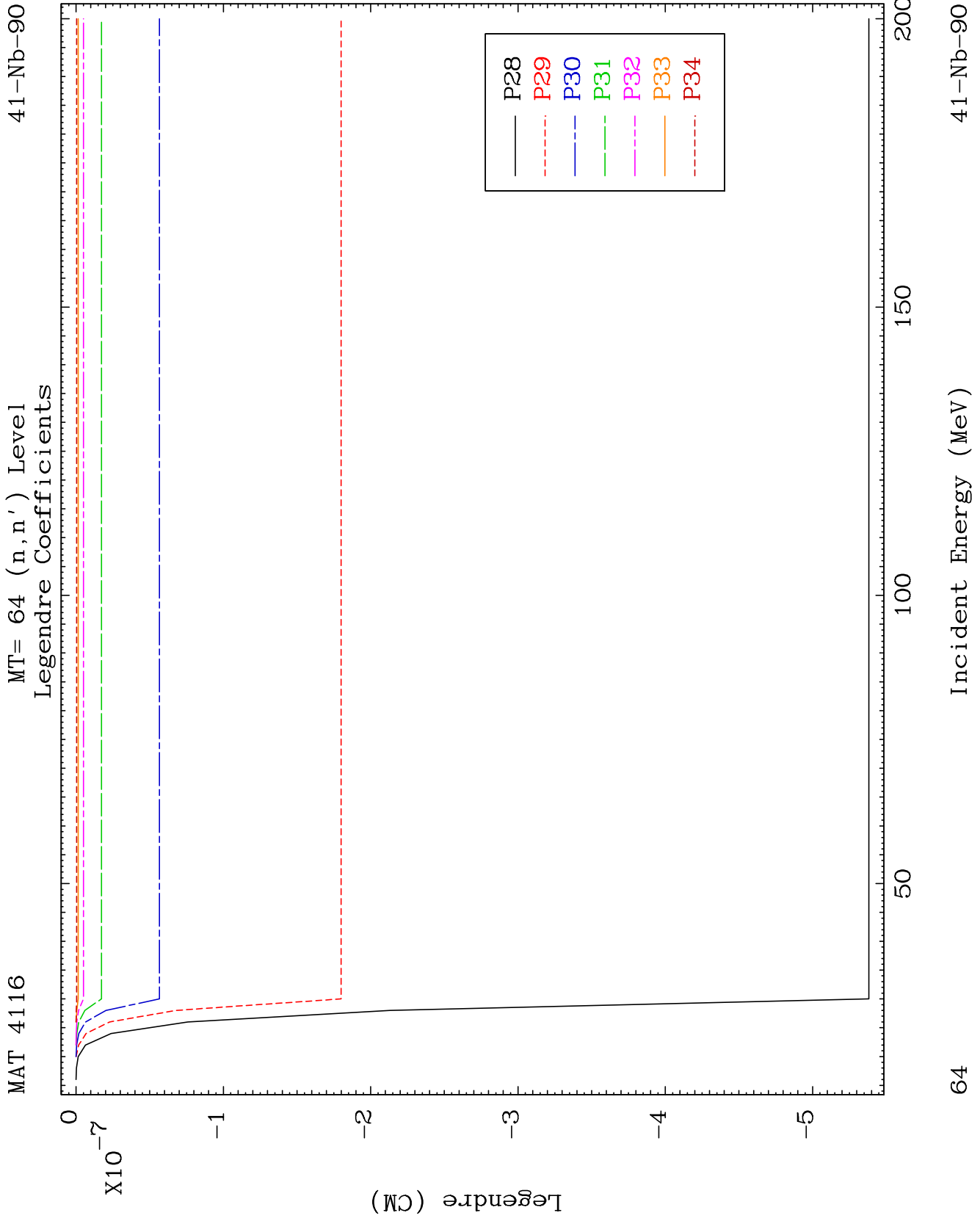
MT= 64 (n,n') Level
Legendre Coefficients

41-Nb-90



63

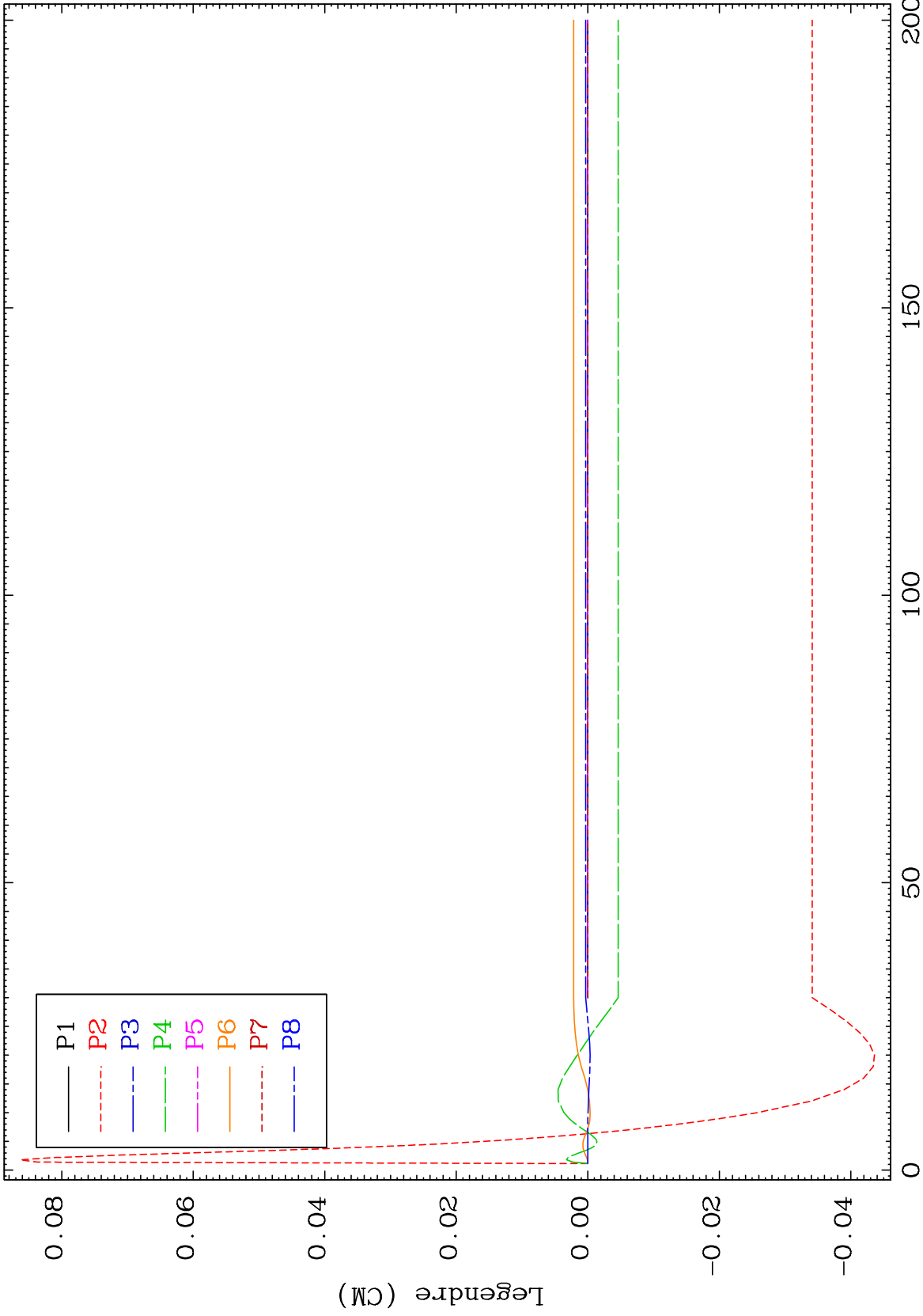
41-Nb-90



MAT 4116

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

41-Nb-90

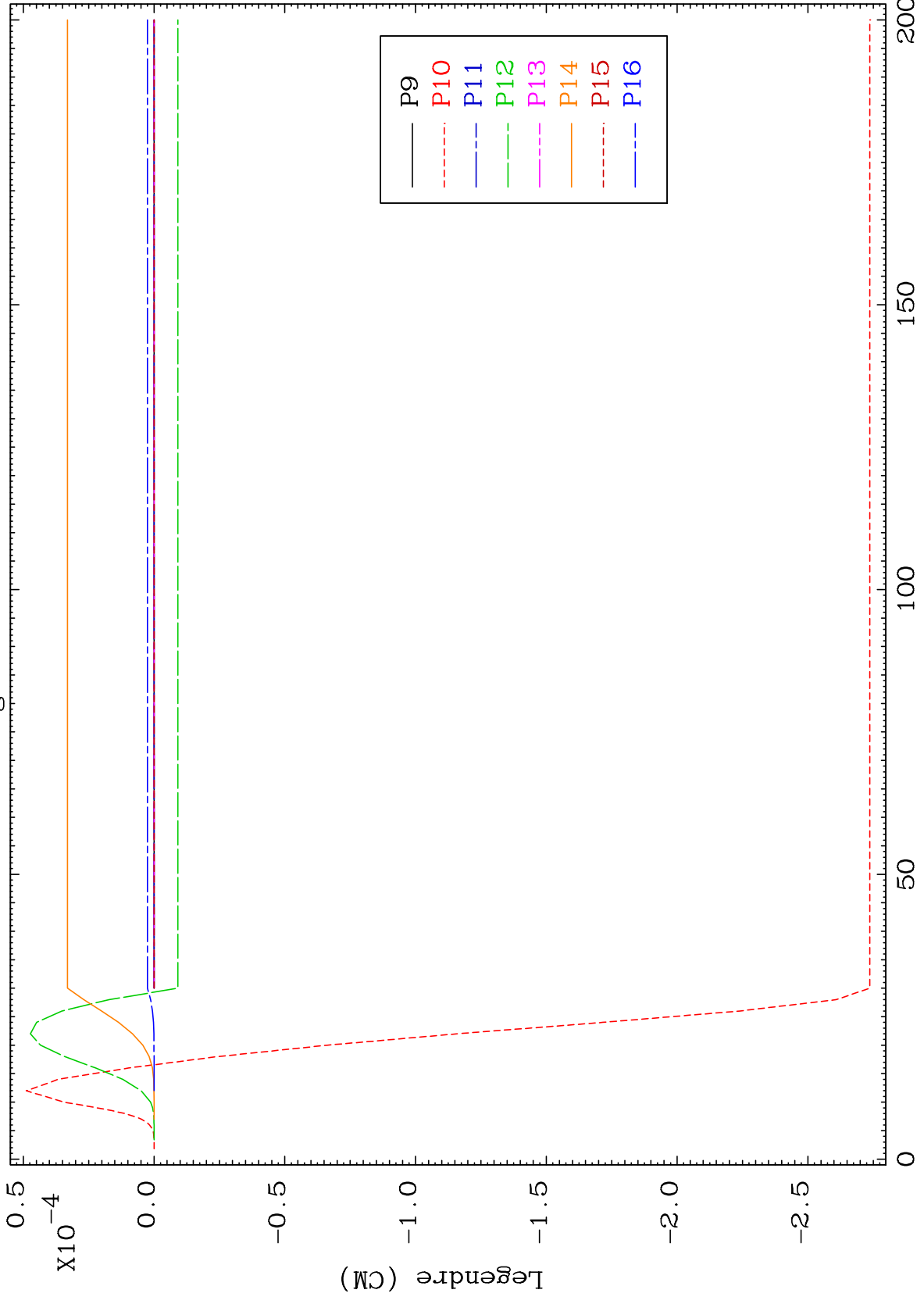


65

Incident Energy (MeV)

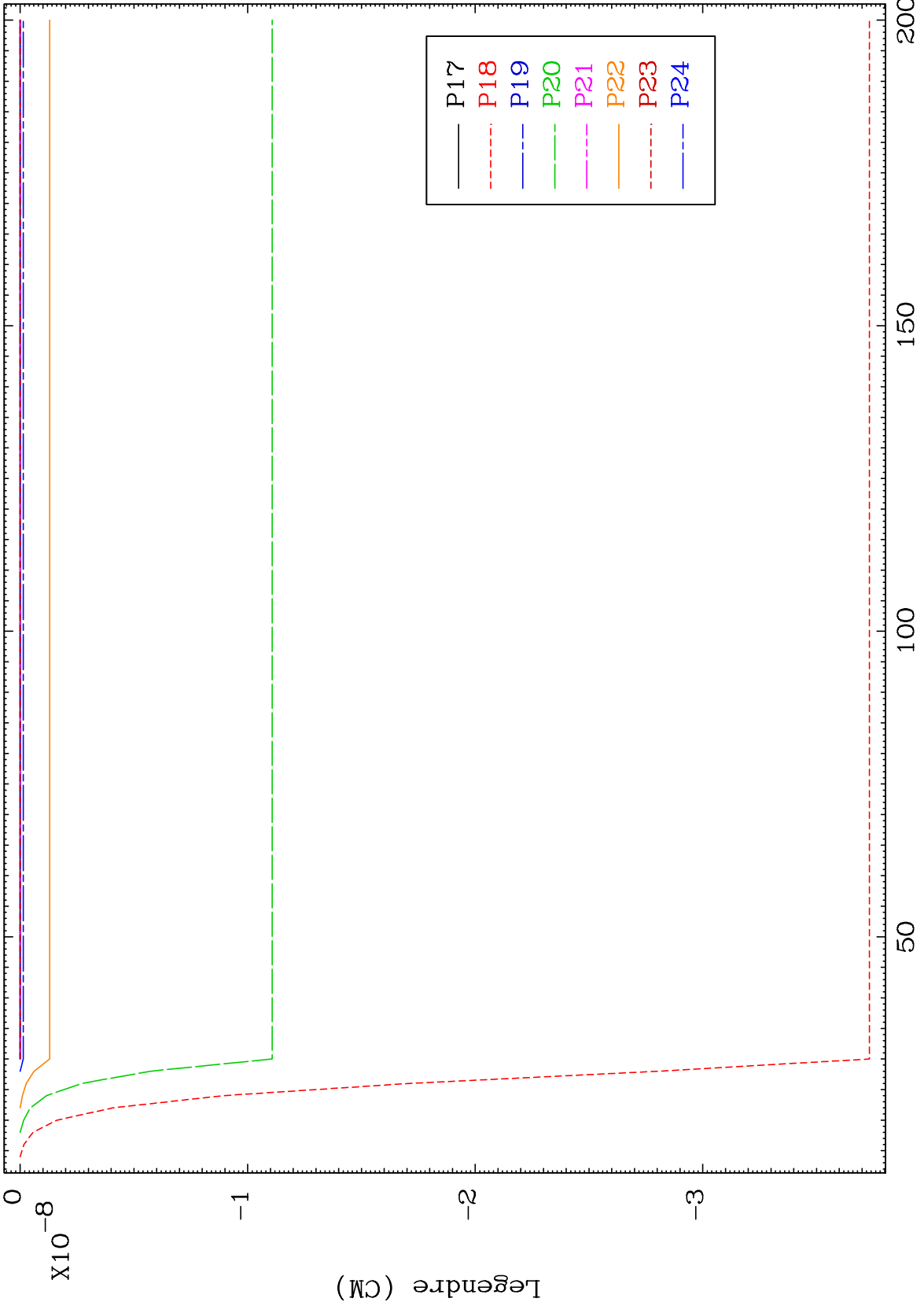
41-Nb-90

MAT 4116 MT= 65 (n,n') Level Legendre Coefficients 41-Nb-90



66 41-Nb-90

MAT 4116 MT= 65 (n,n') Level Legendre Coefficients 41-Nb-90

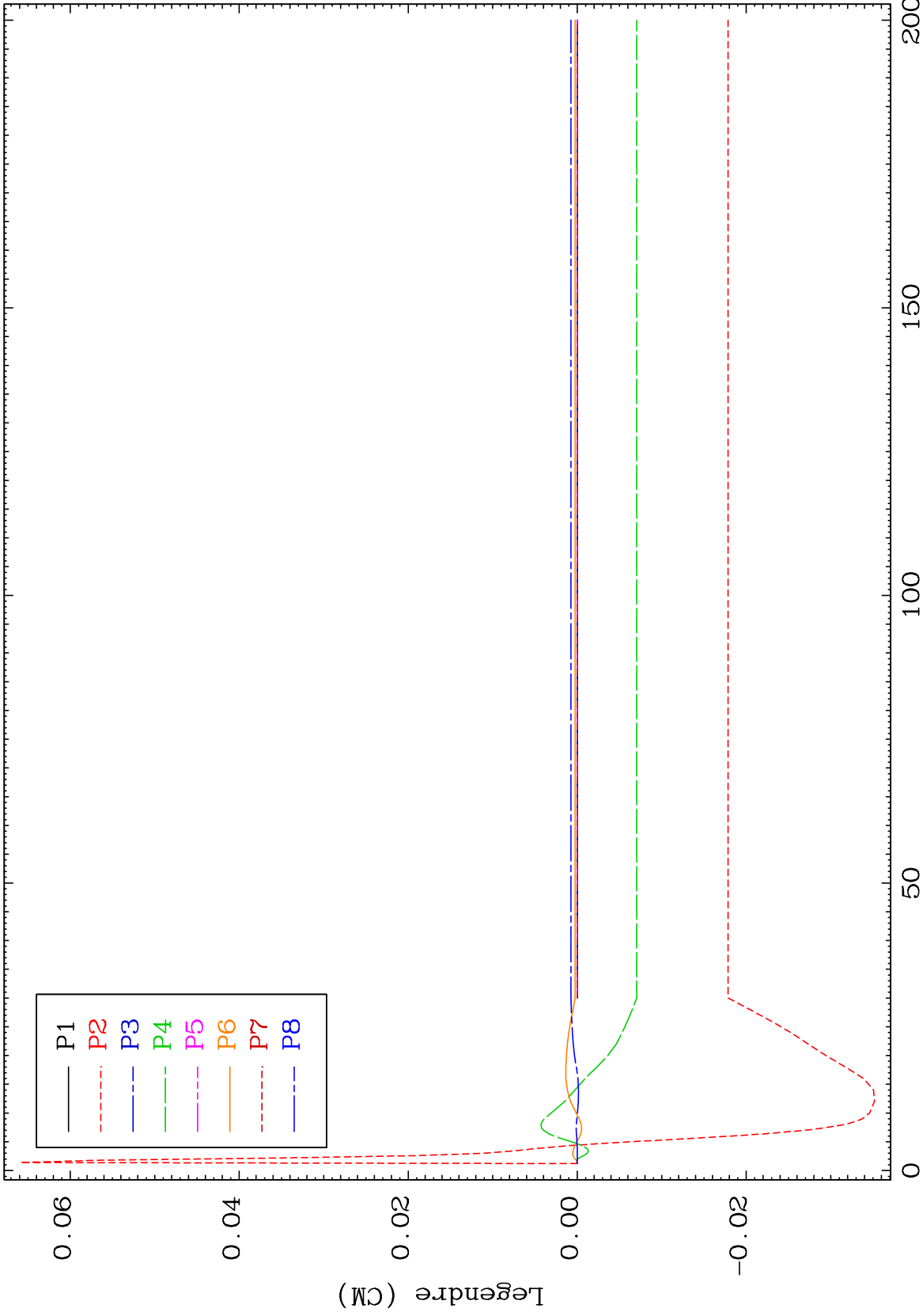


67 41-Nb-90

MAT 4116

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

41-Nb-90



68

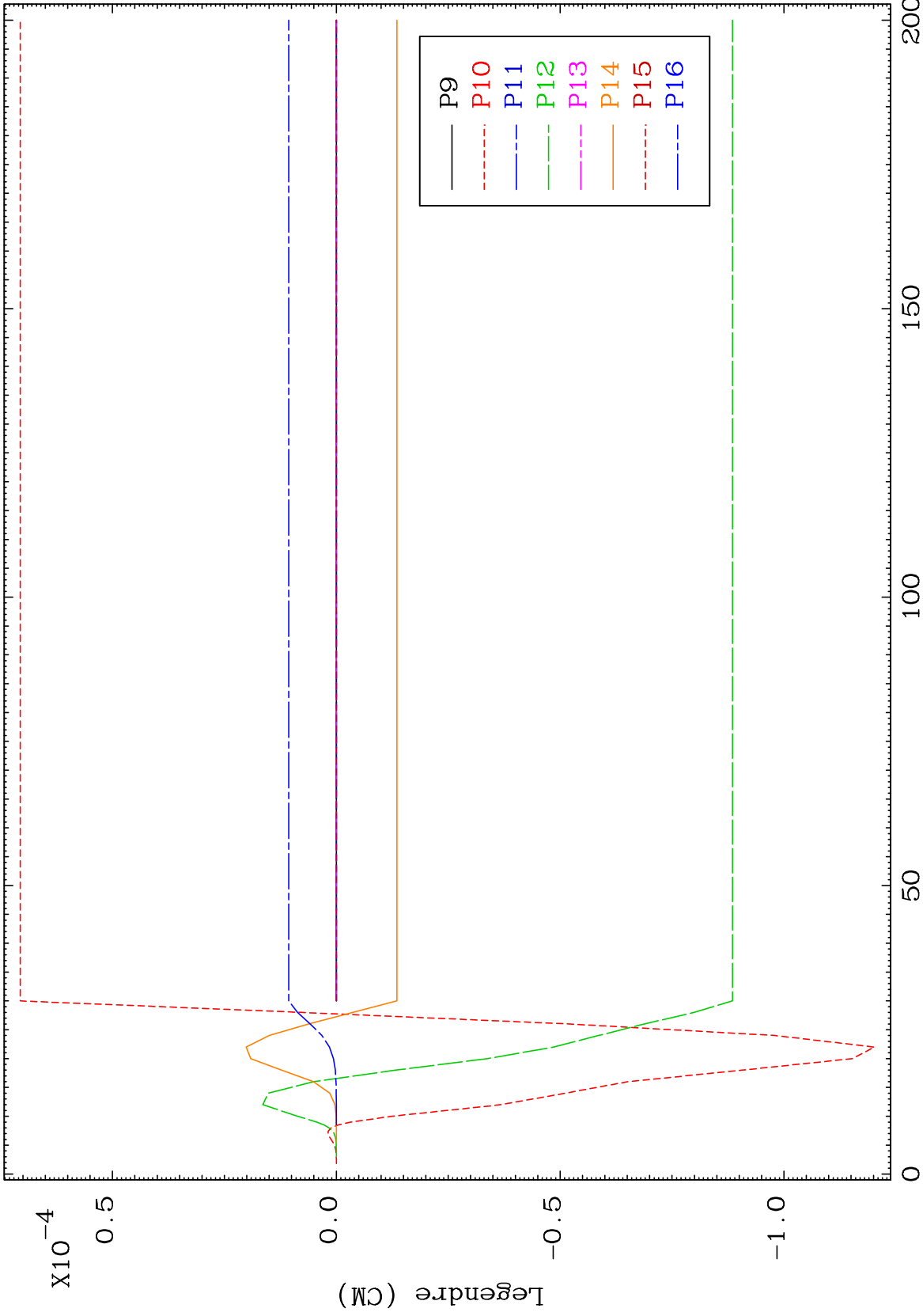
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90

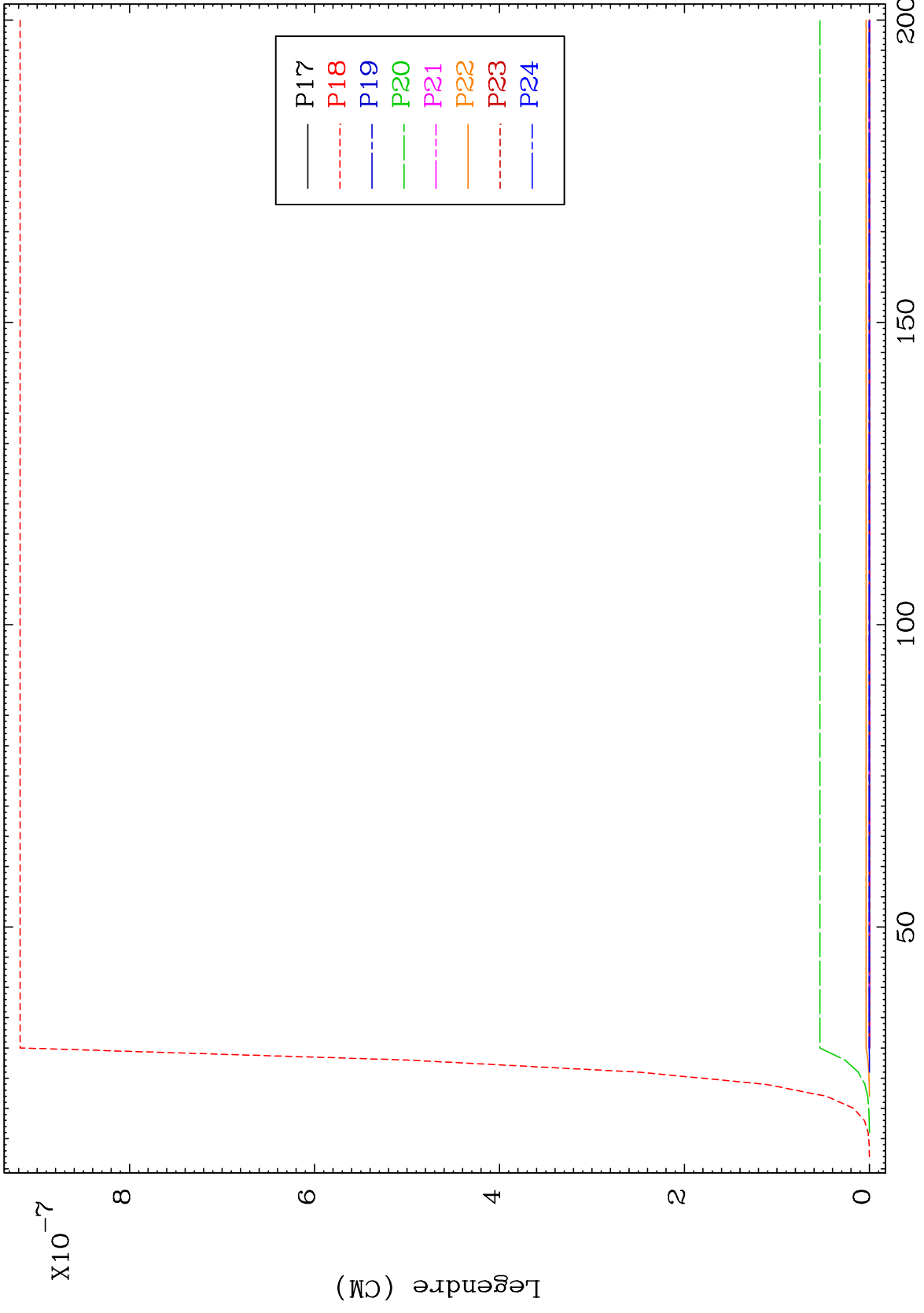


69

Incident Energy (MeV)

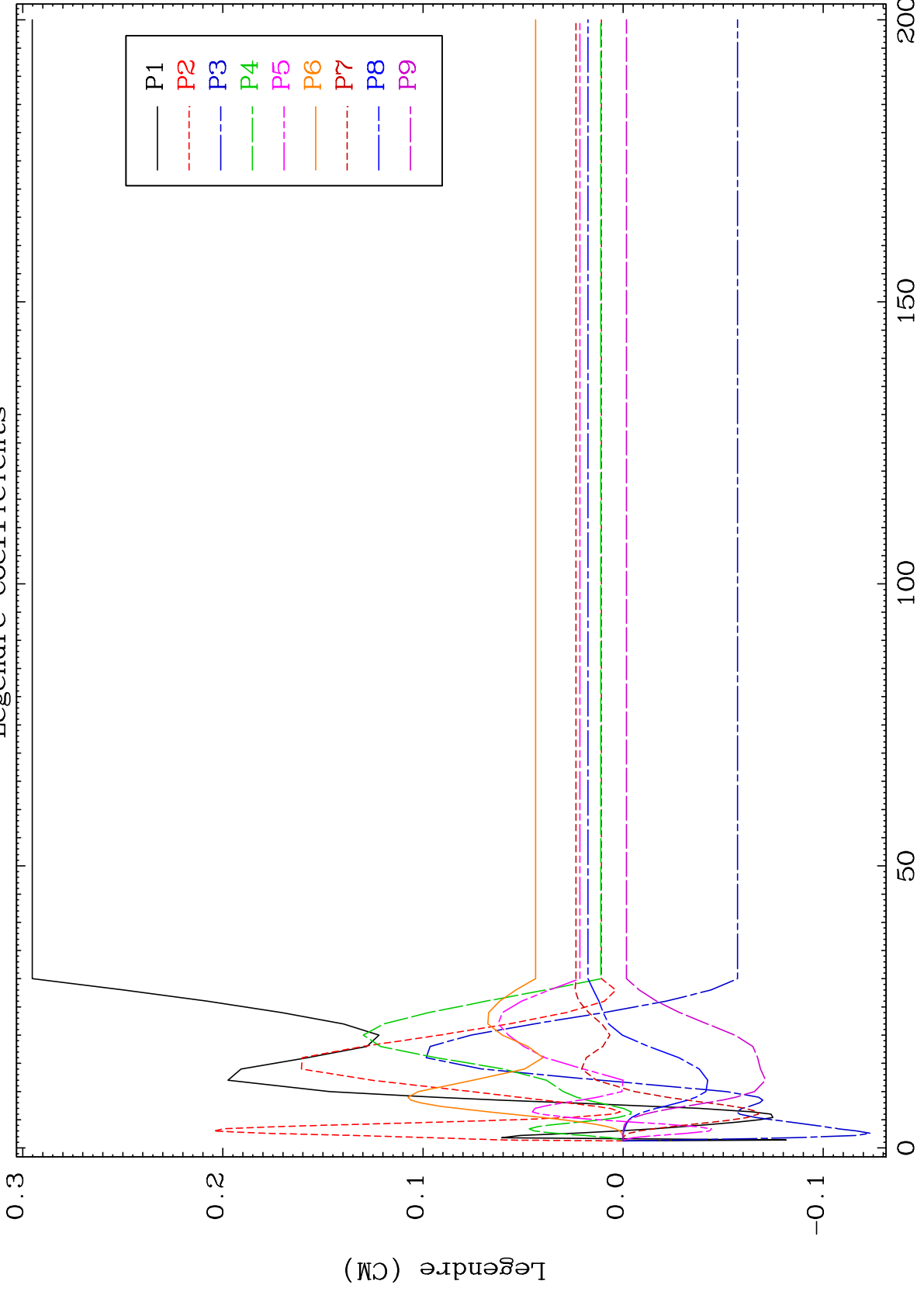
41-Nb-90

MAT 4116 MT= 66 (n,n') Level Legendre Coefficients 41-Nb-90



70 50 100 150 200 Incident Energy (MeV) 41-Nb-90

MAT 4116 MT= 67 (n,n') Level Legendre Coefficients 41-Nb-90

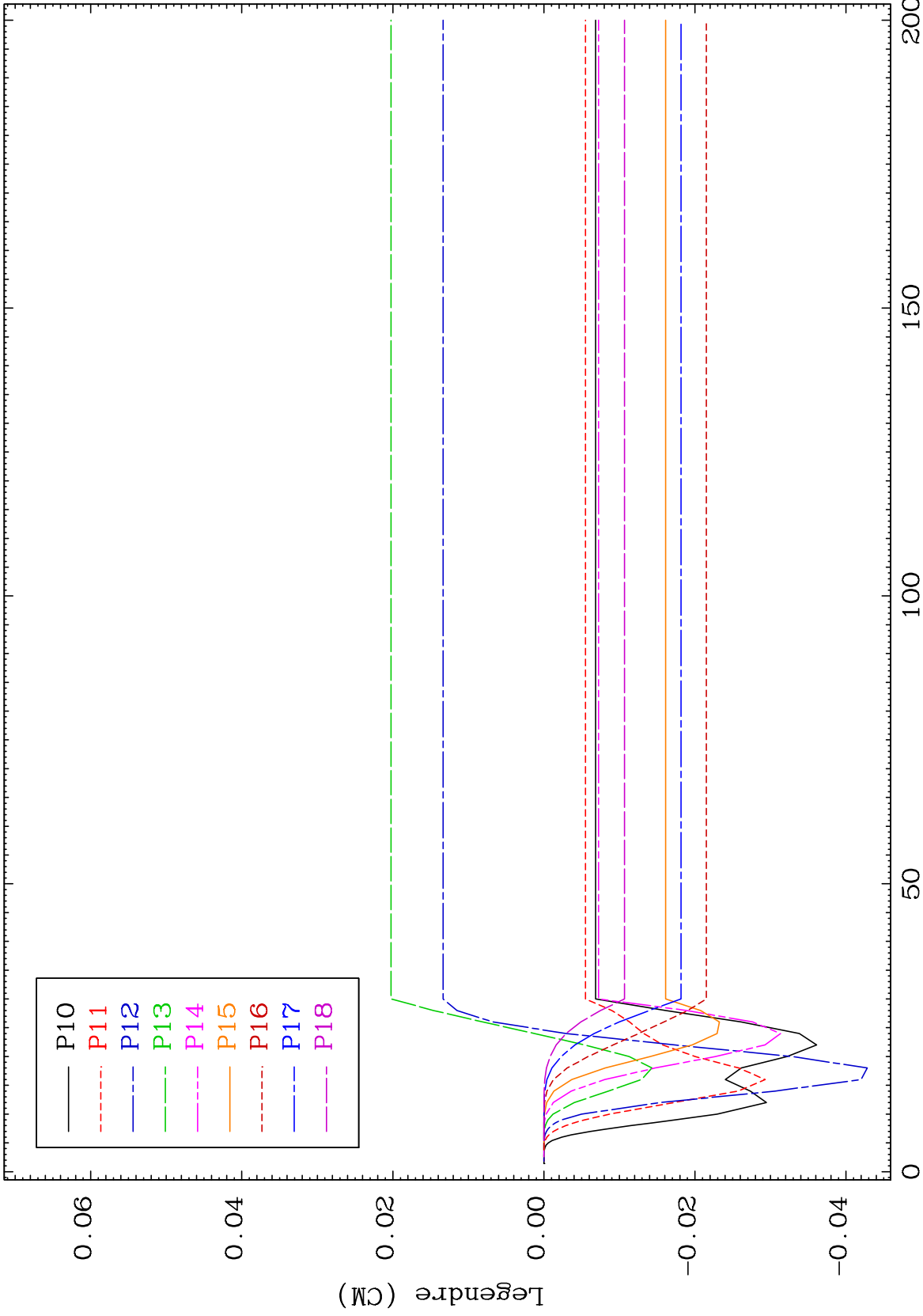


71 41-Nb-90

MAT 4116

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

41-Nb-90

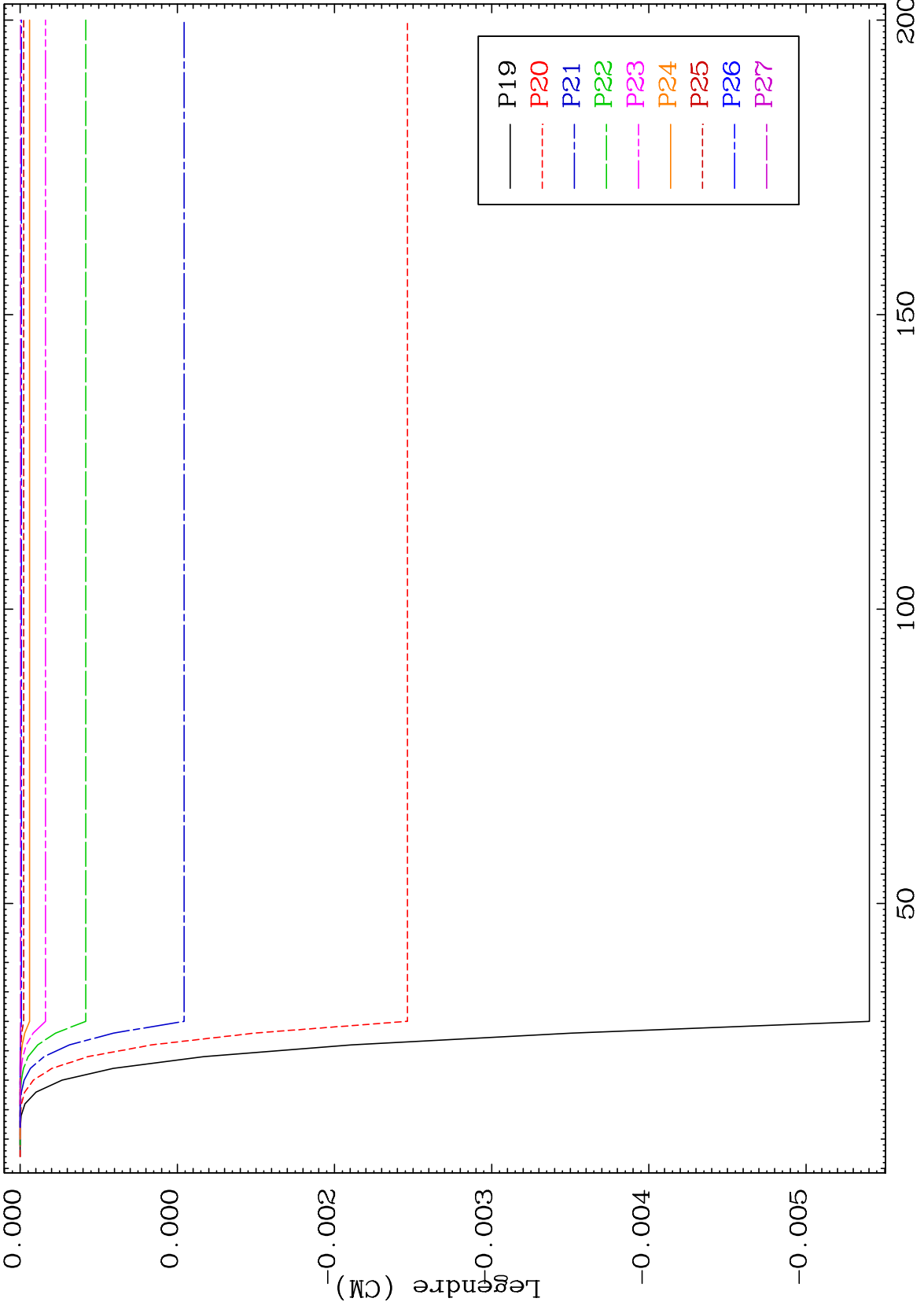


72

Incident Energy (MeV)

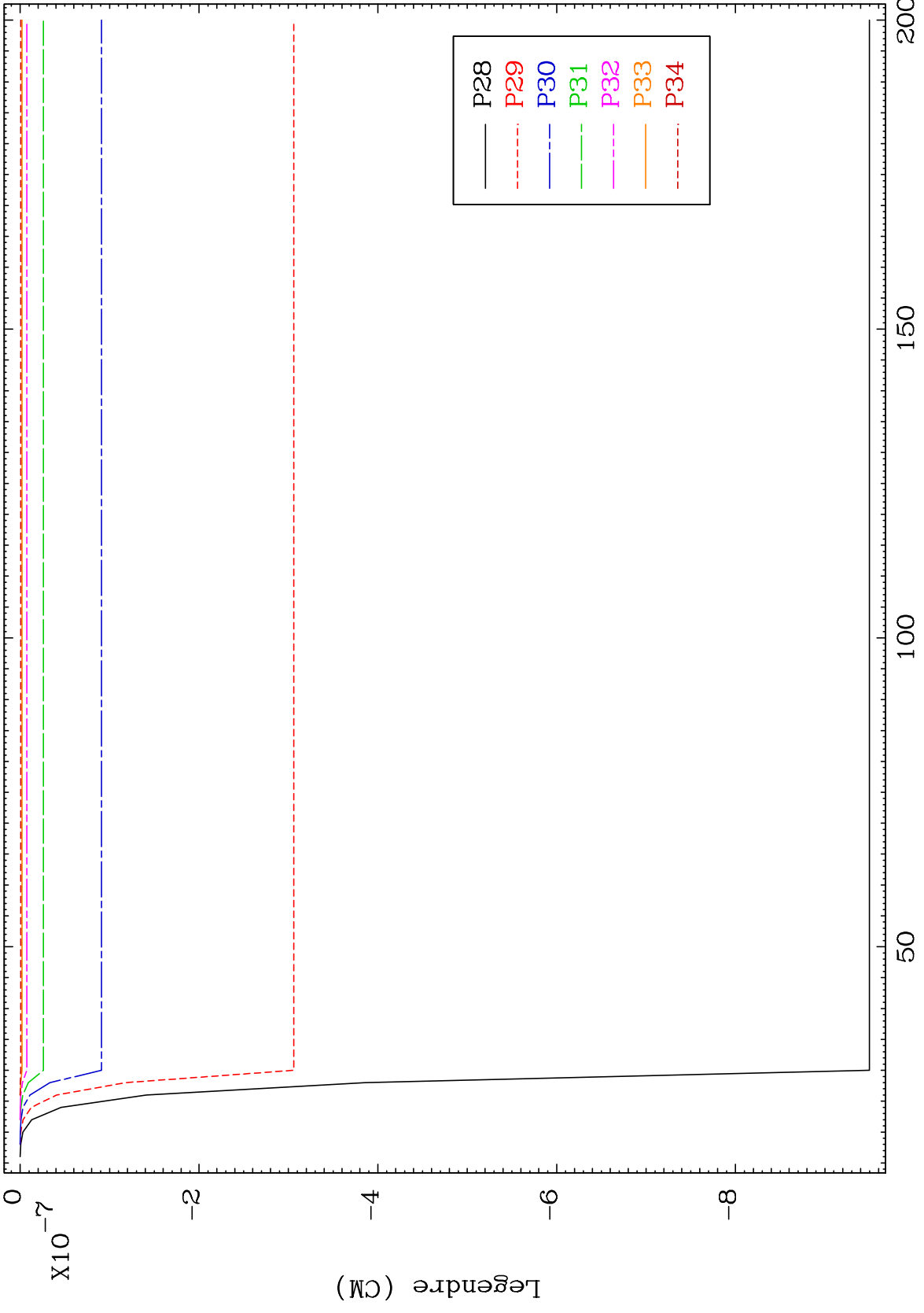
41-Nb-90

MAT 4116 MT= 67 (n,n') Level Legendre Coefficients 41-Nb-90



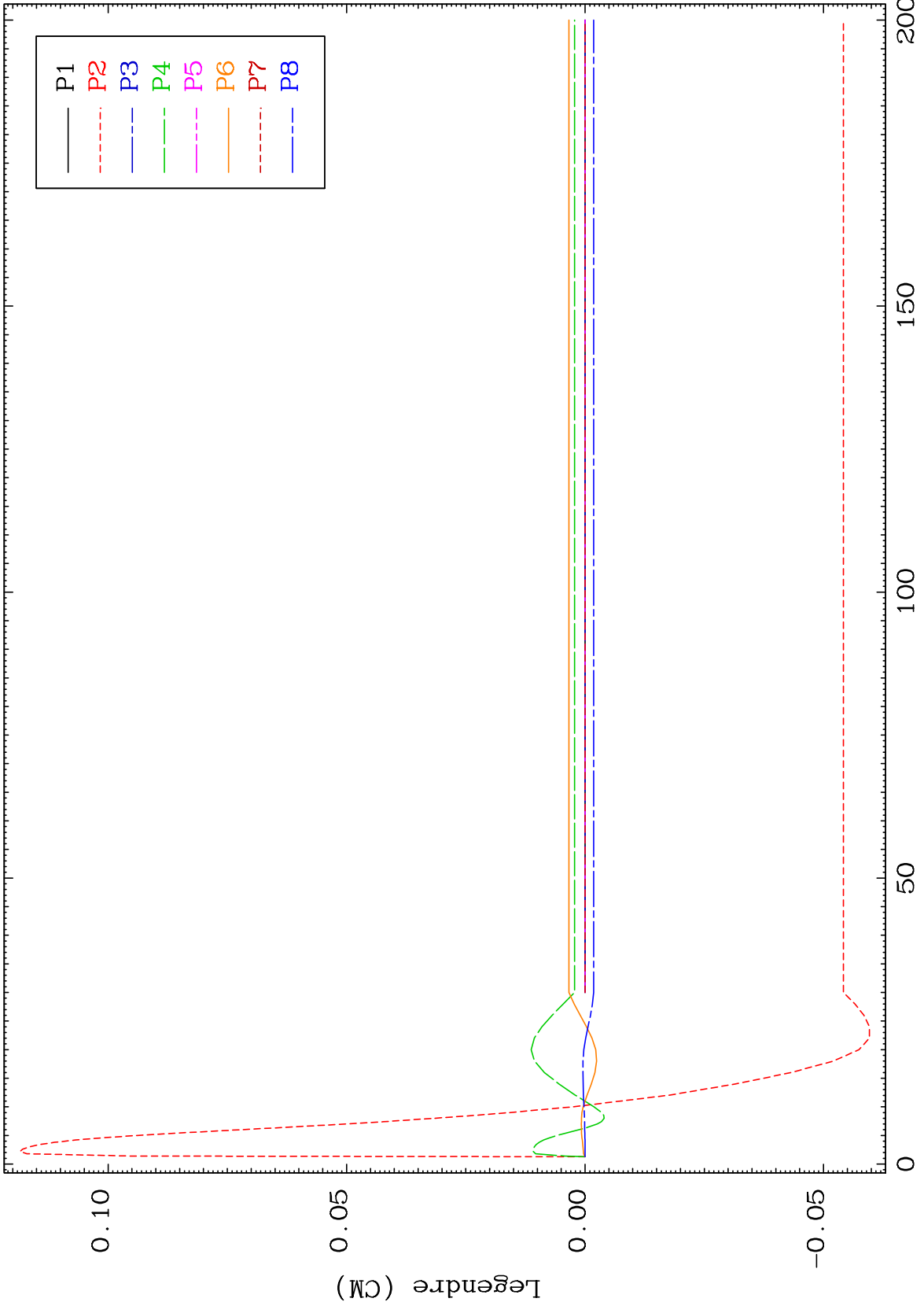
73 41-Nb-90

MAT 4116 MT= 67 (n,n') Level Legendre Coefficients 41-Nb-90



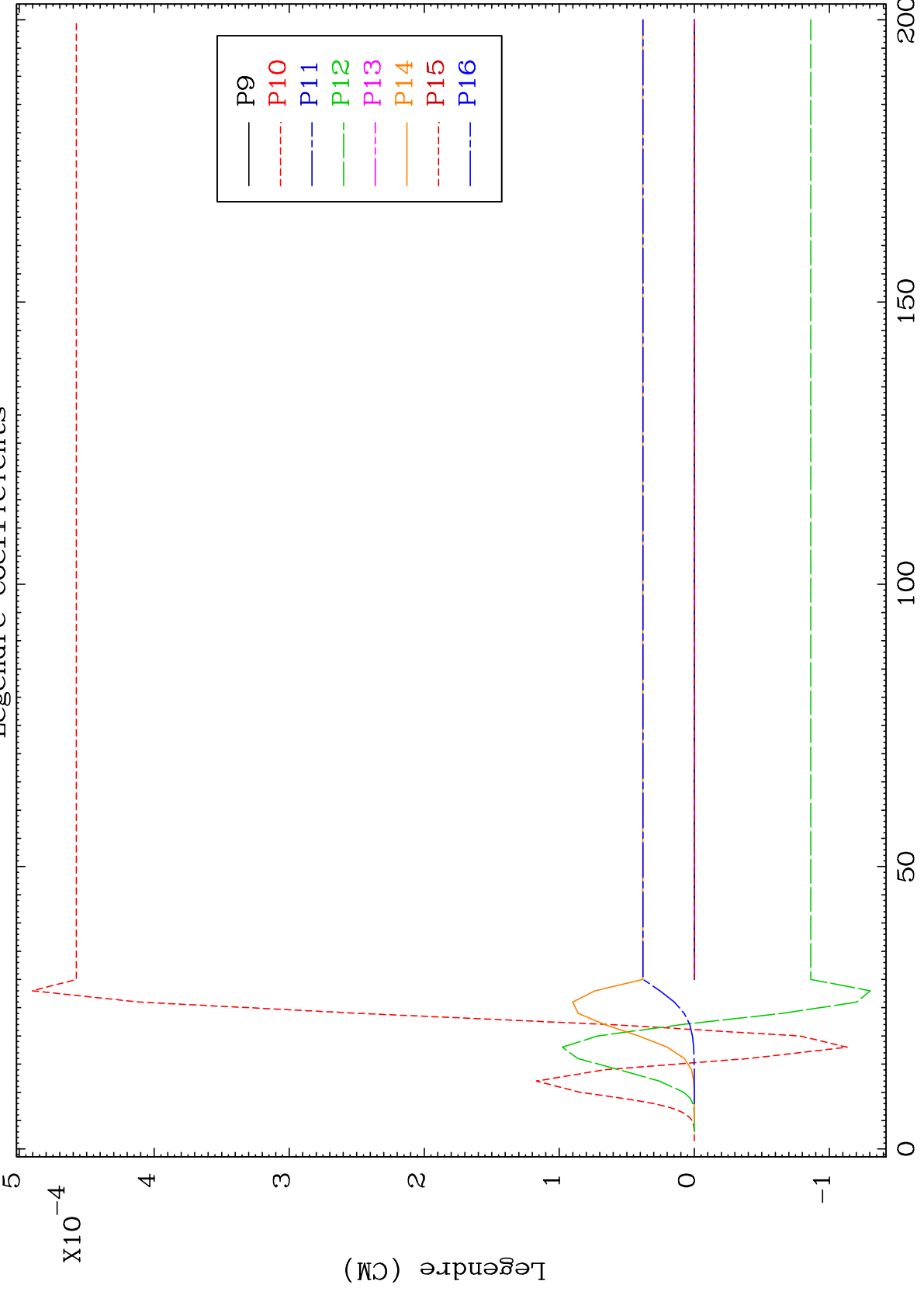
74 41-Nb-90

MAT 4116 MT= 68 (n,n') Level Legendre Coefficients 41-Nb-90



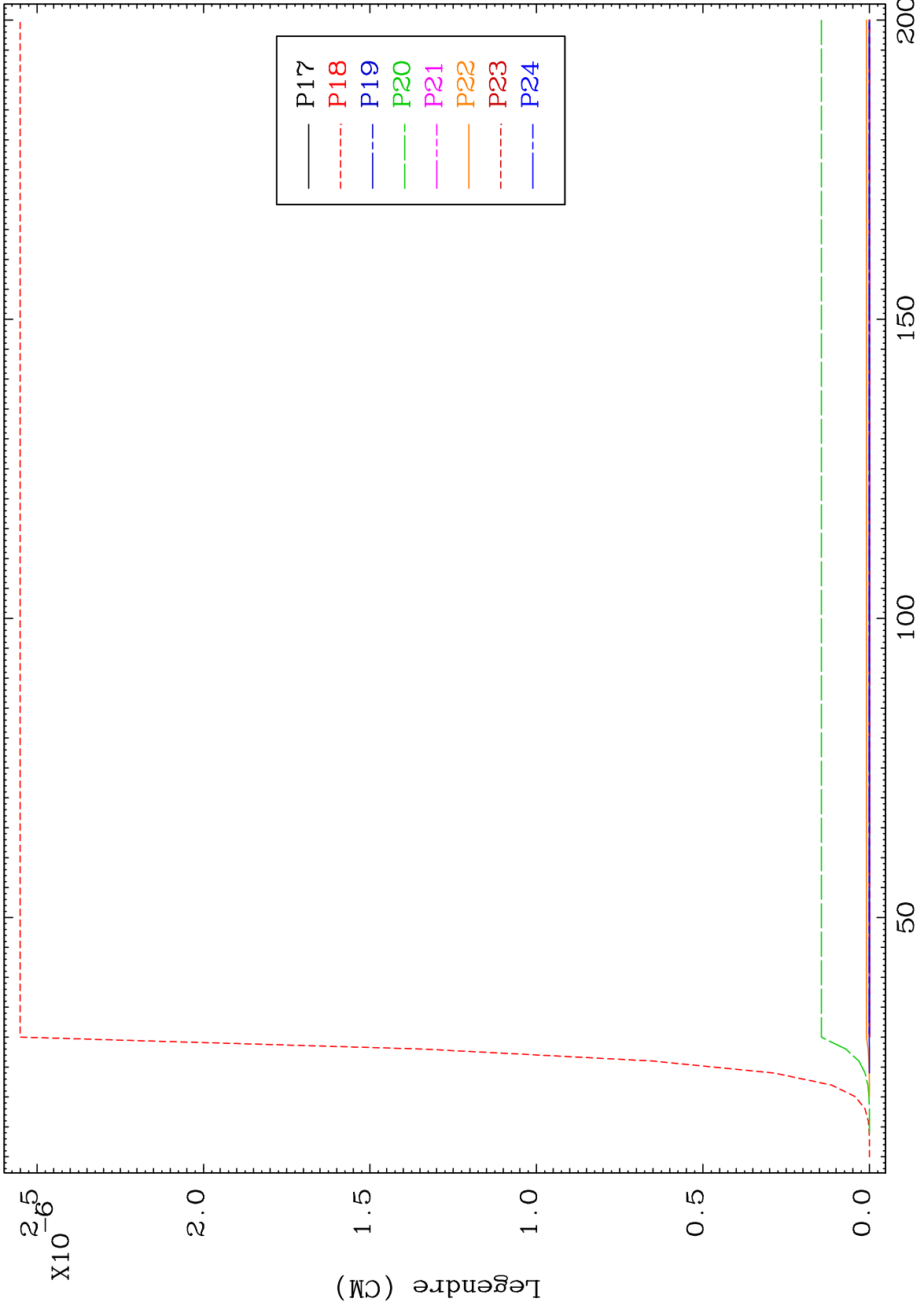
75 Incident Energy (MeV) 41-Nb-90

MAT 4116 MT= 68 (n,n') Level Legendre Coefficients 41-Nb-90



76 Incident Energy (MeV) 41-Nb-90

MAT 4116 MT= 68 (n,n') Level Legendre Coefficients 41-Nb-90

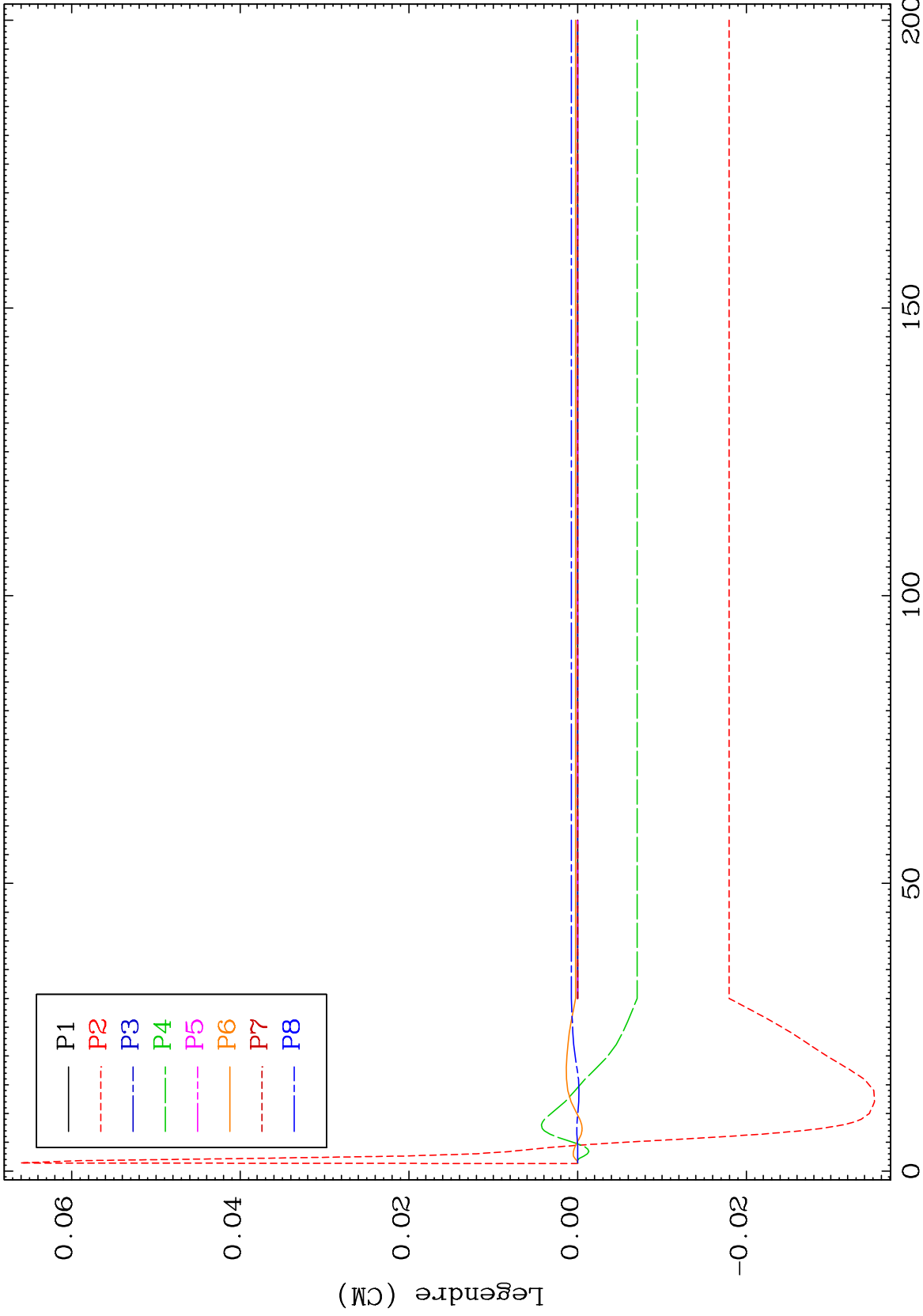


77 41-Nb-90

MAT 4116

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

41-Nb-90

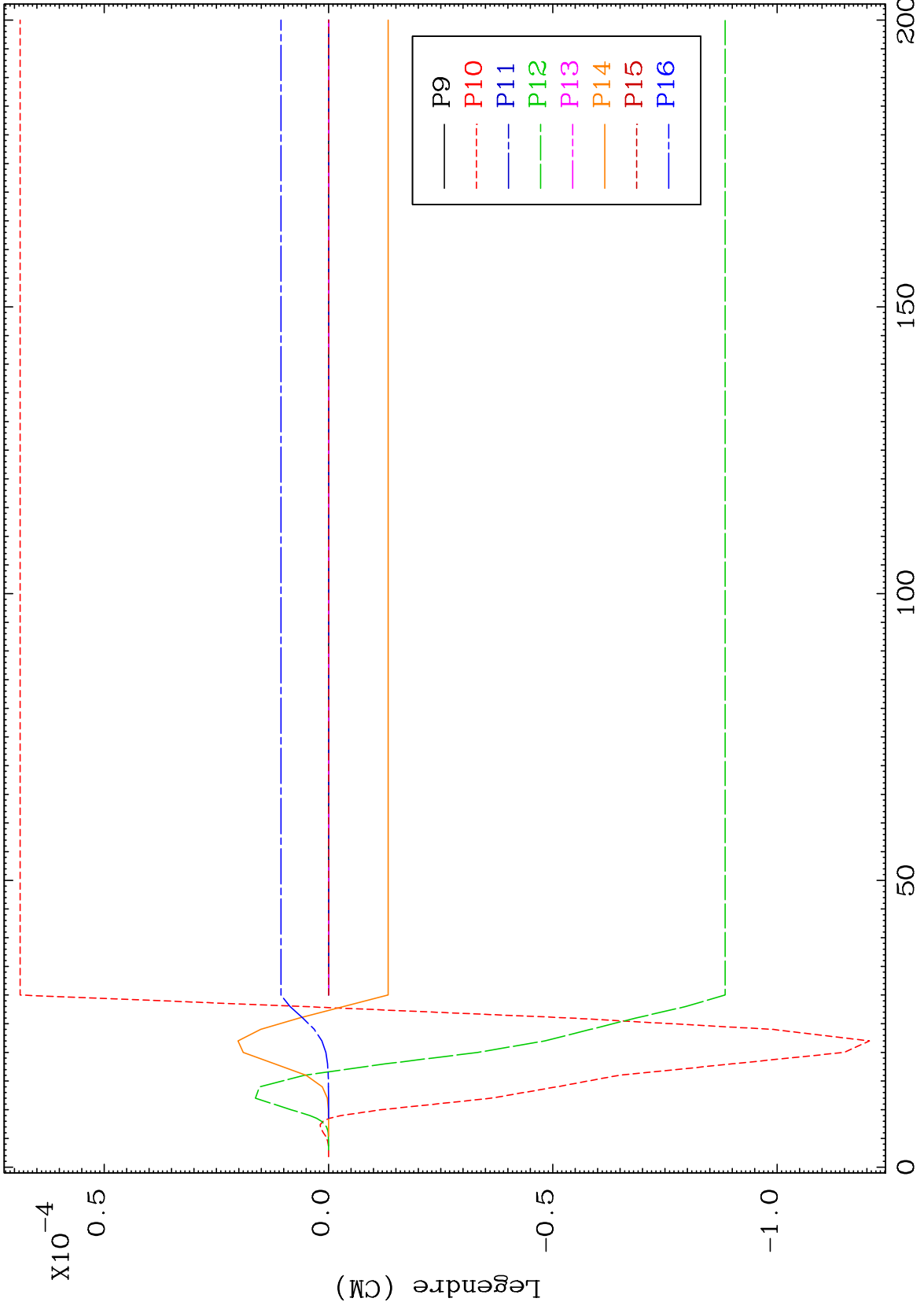


78

Incident Energy (MeV)

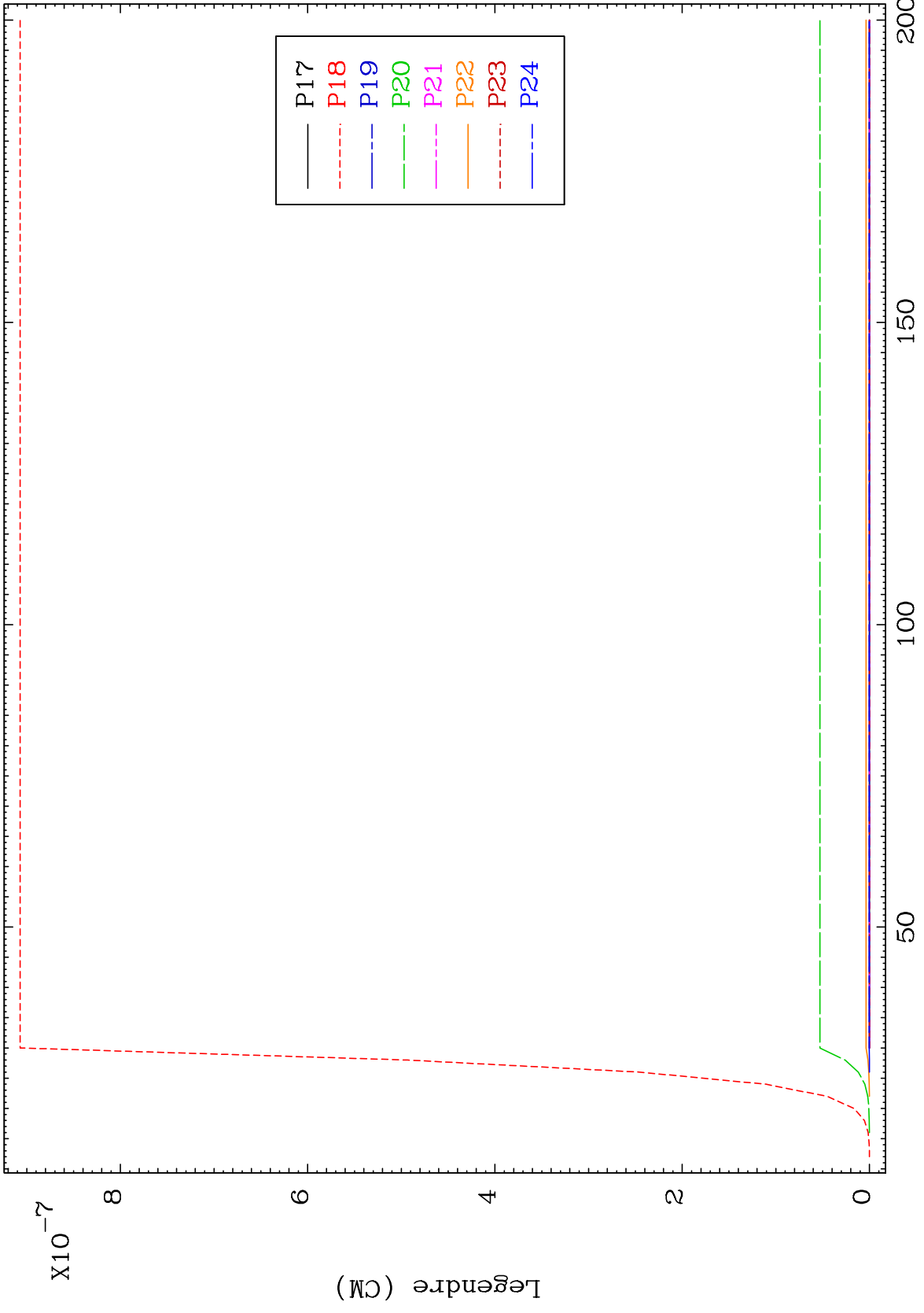
41-Nb-90

MAT 4116 MT= 69 (n,n') Level Legendre Coefficients 41-Nb-90



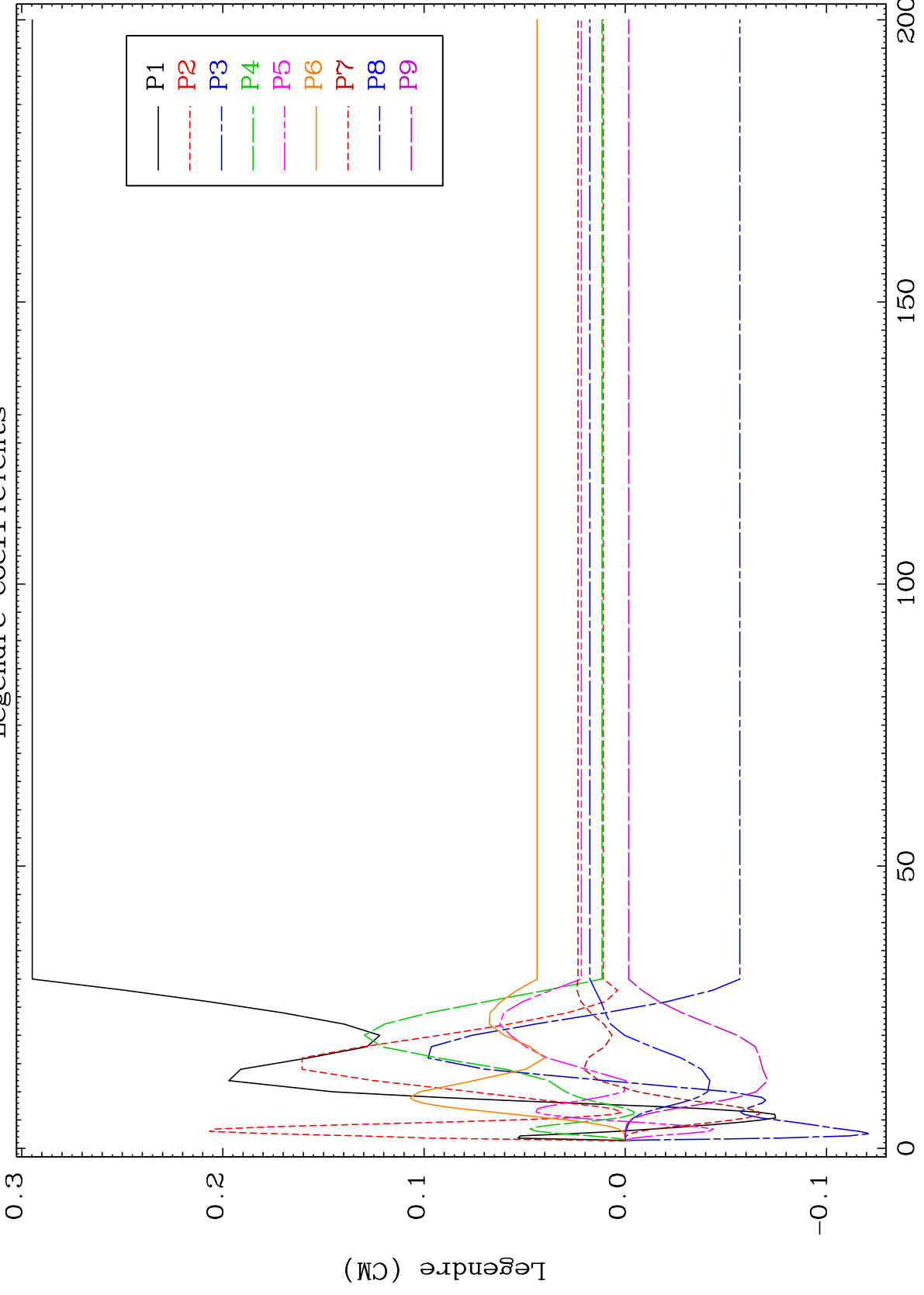
79 41-Nb-90

MAT 4116 MT= 69 (n,n') Level Legendre Coefficients 41-Nb-90



80 50 100 150 200 Incident Energy (MeV) 41-Nb-90

MAT 4116 MT= 70 (n,n') Level Legendre Coefficients 41-Nb-90

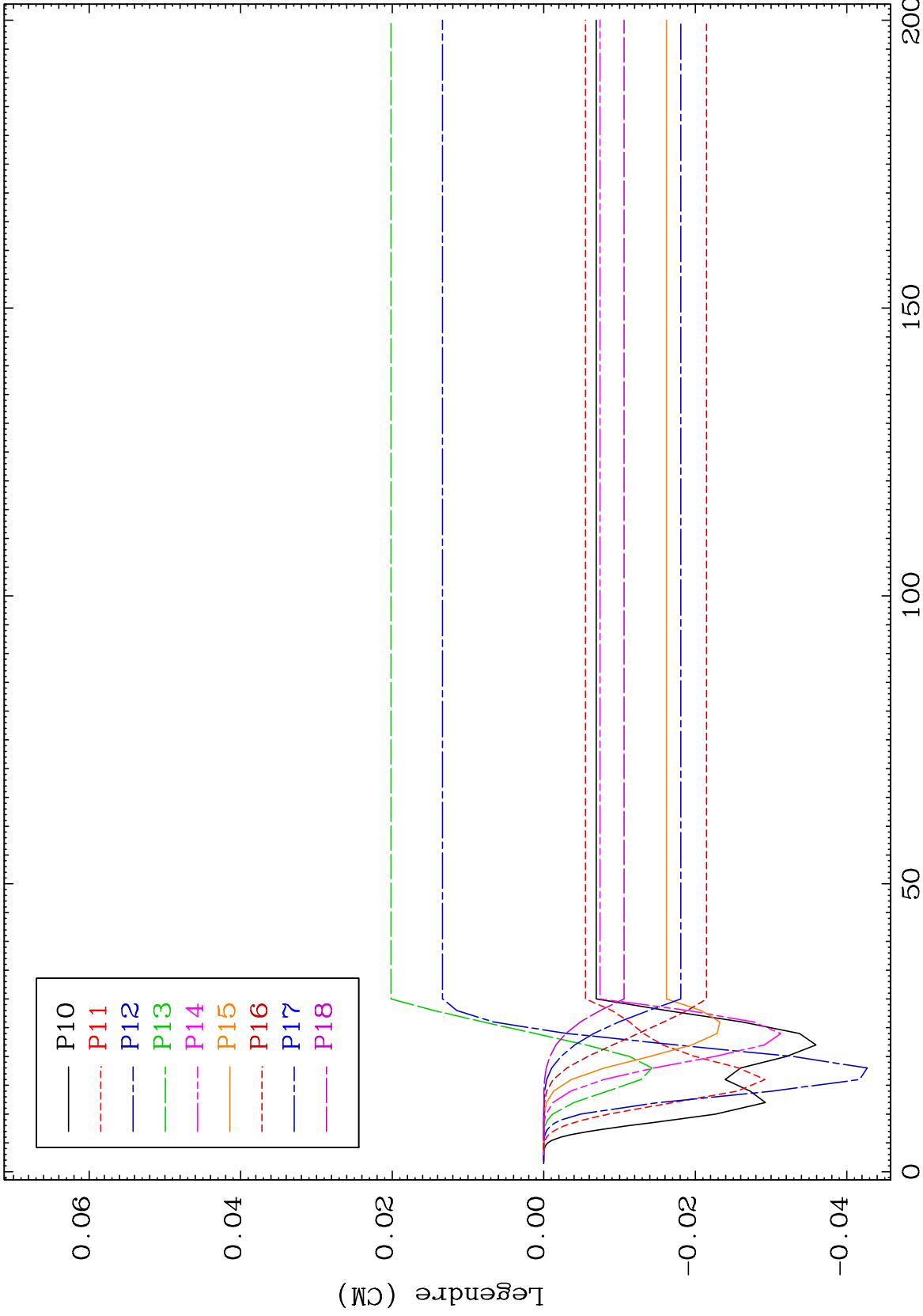


81 41-Nb-90

MAT 4116

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

41-Nb-90

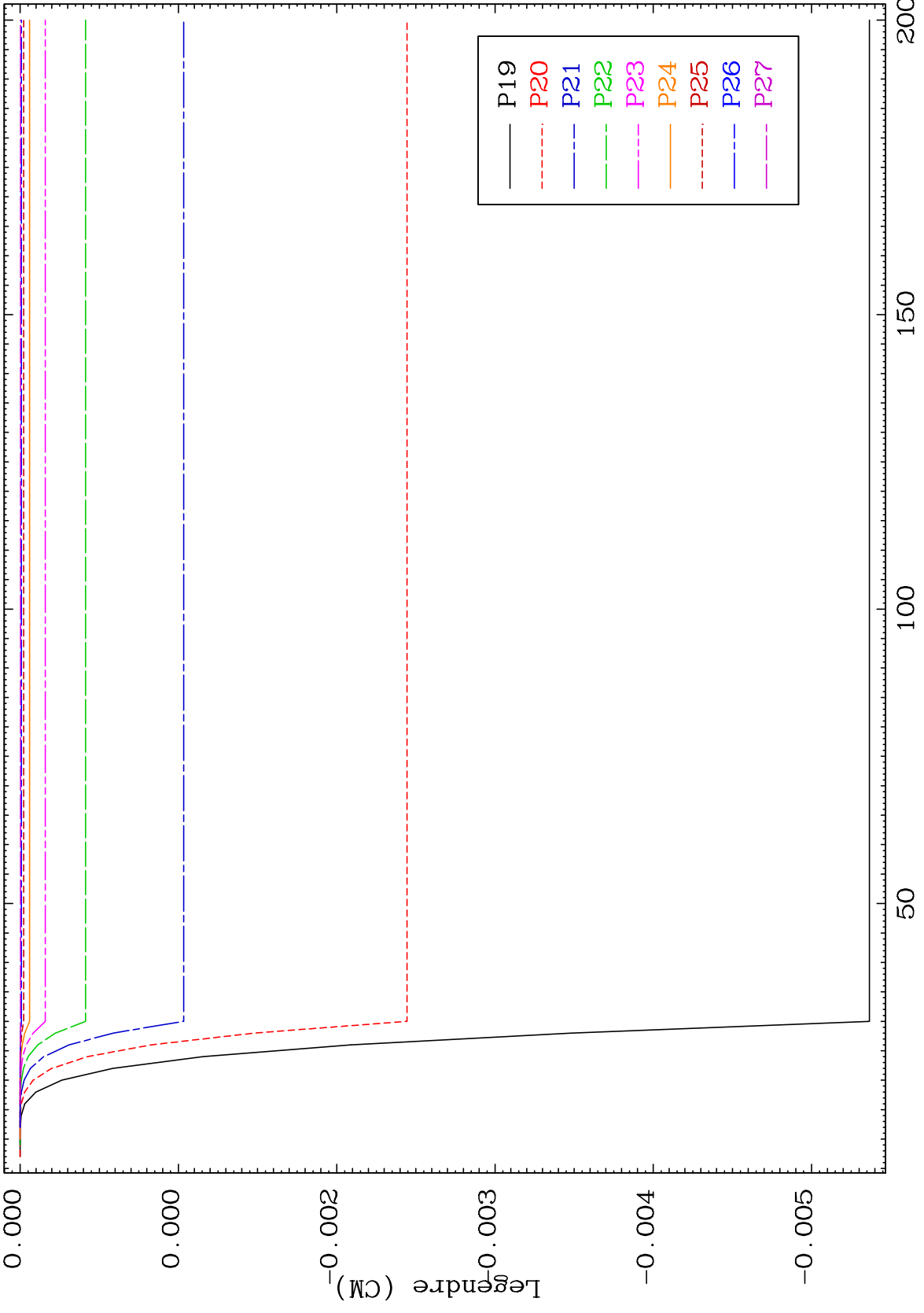


82

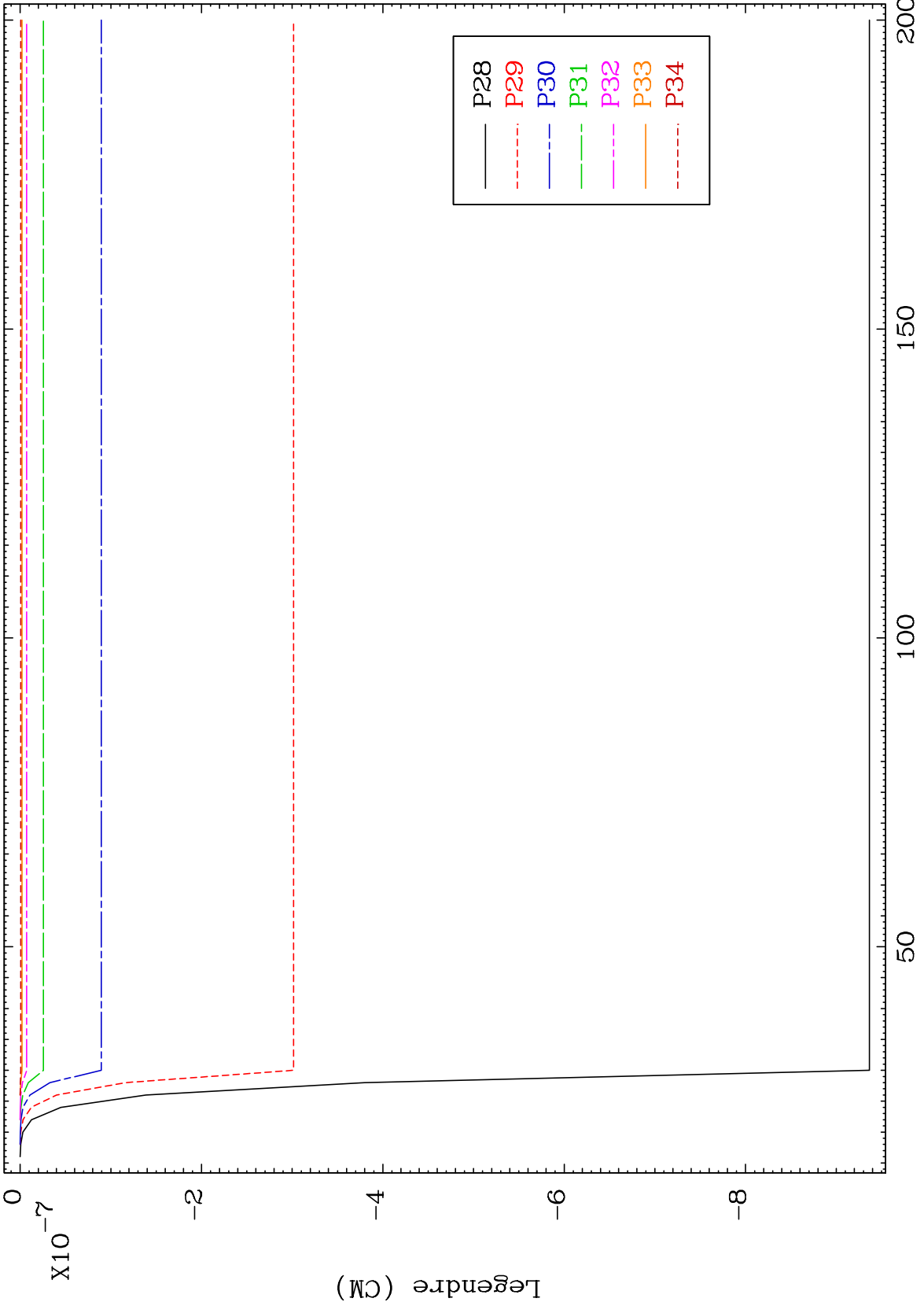
Incident Energy (MeV)

41-Nb-90

MAT 4116 MT= 70 (n,n') Level Legendre Coefficients 41-Nb-90



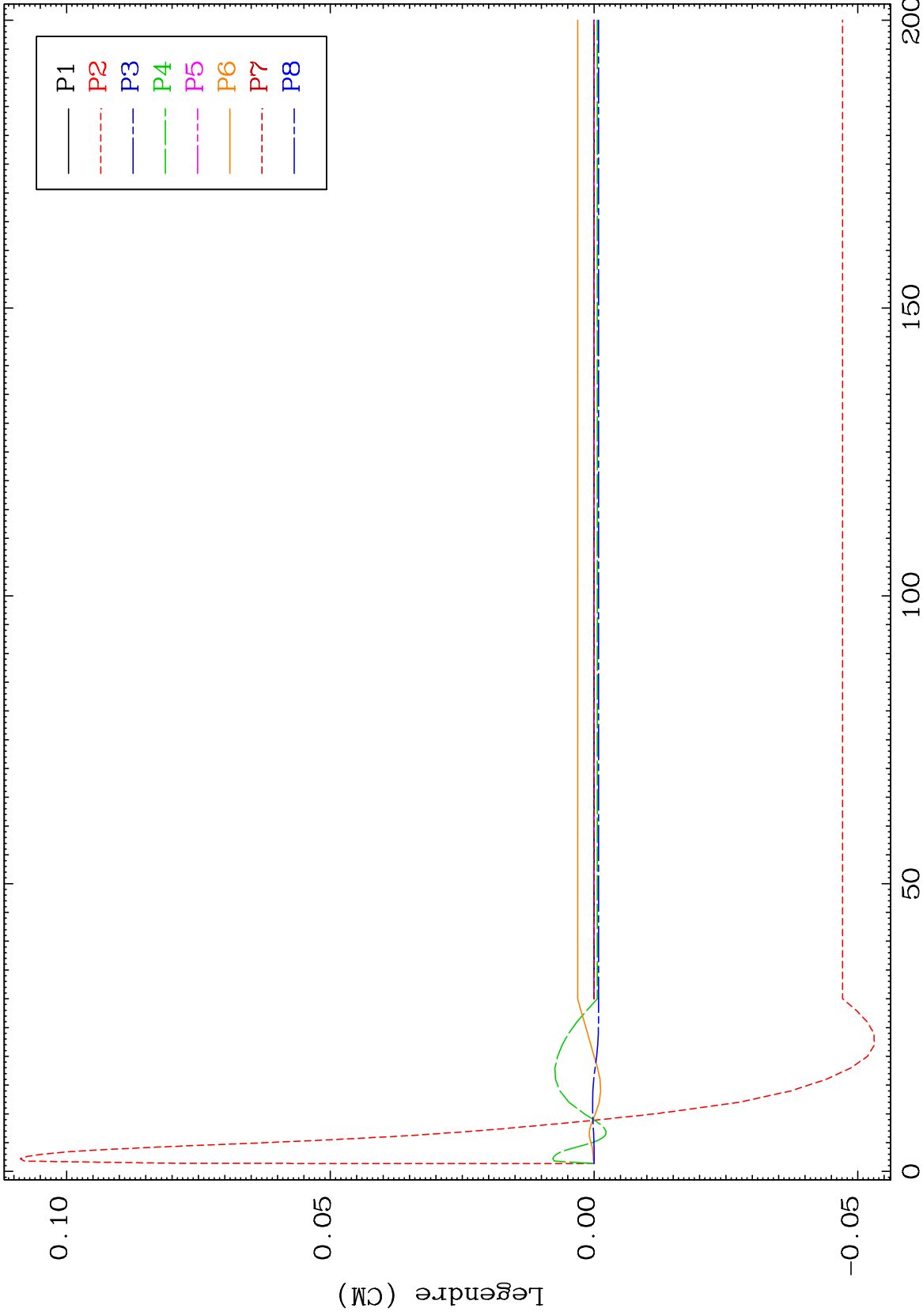
MAT 4116 MT= 70 (n,n') Level Legendre Coefficients 41-Nb-90



MAT 4116

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

41-Nb-90

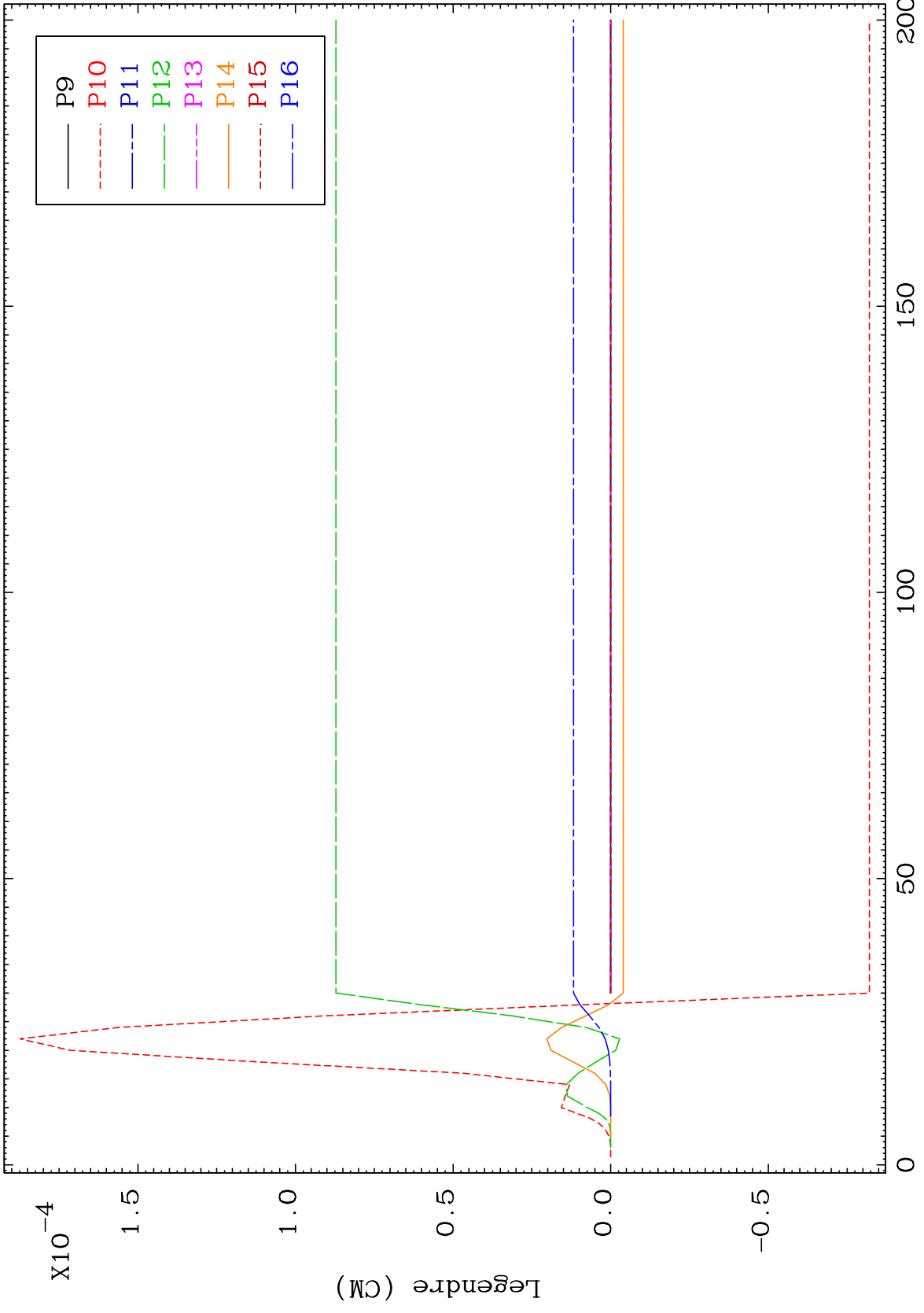


85

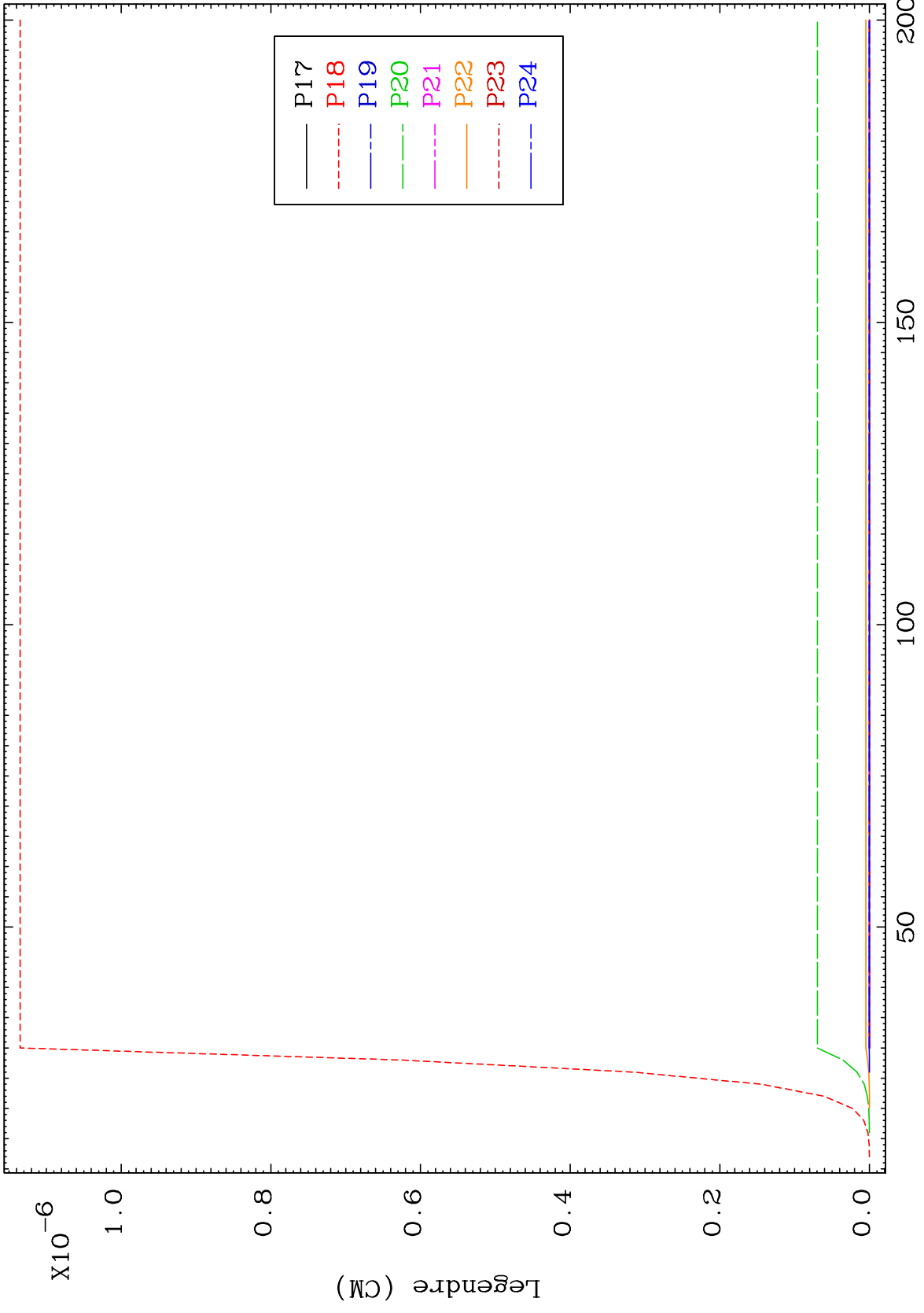
Incident Energy (MeV)

41-Nb-90

MAT 4116 MT= 71 (n,n') Level Legendre Coefficients 41-Nb-90



MAT 4116 MT= 71 (n,n') Level Legendre Coefficients 41-Nb-90

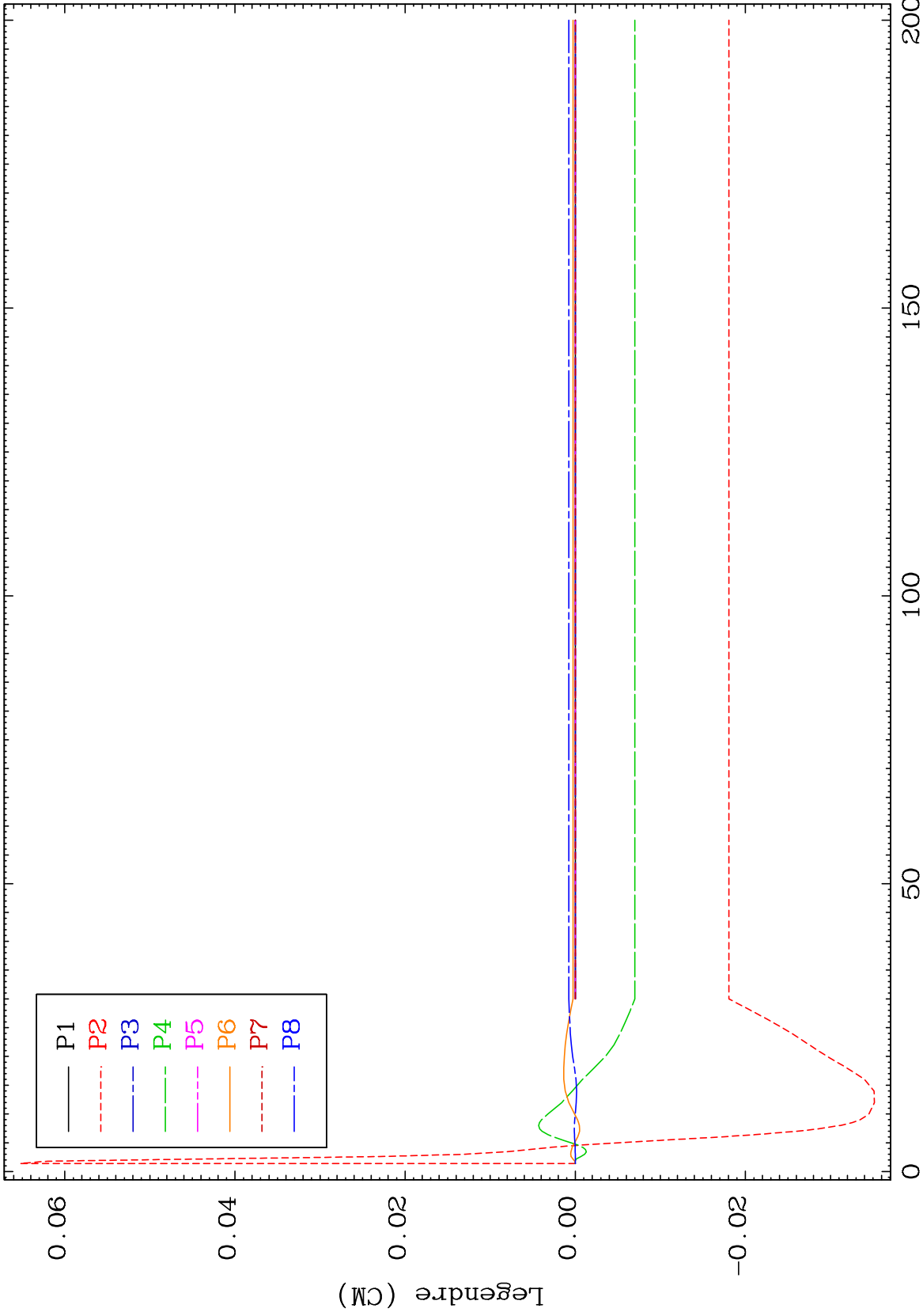


87 41-Nb-90

MAT 4116

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

41-Nb-90

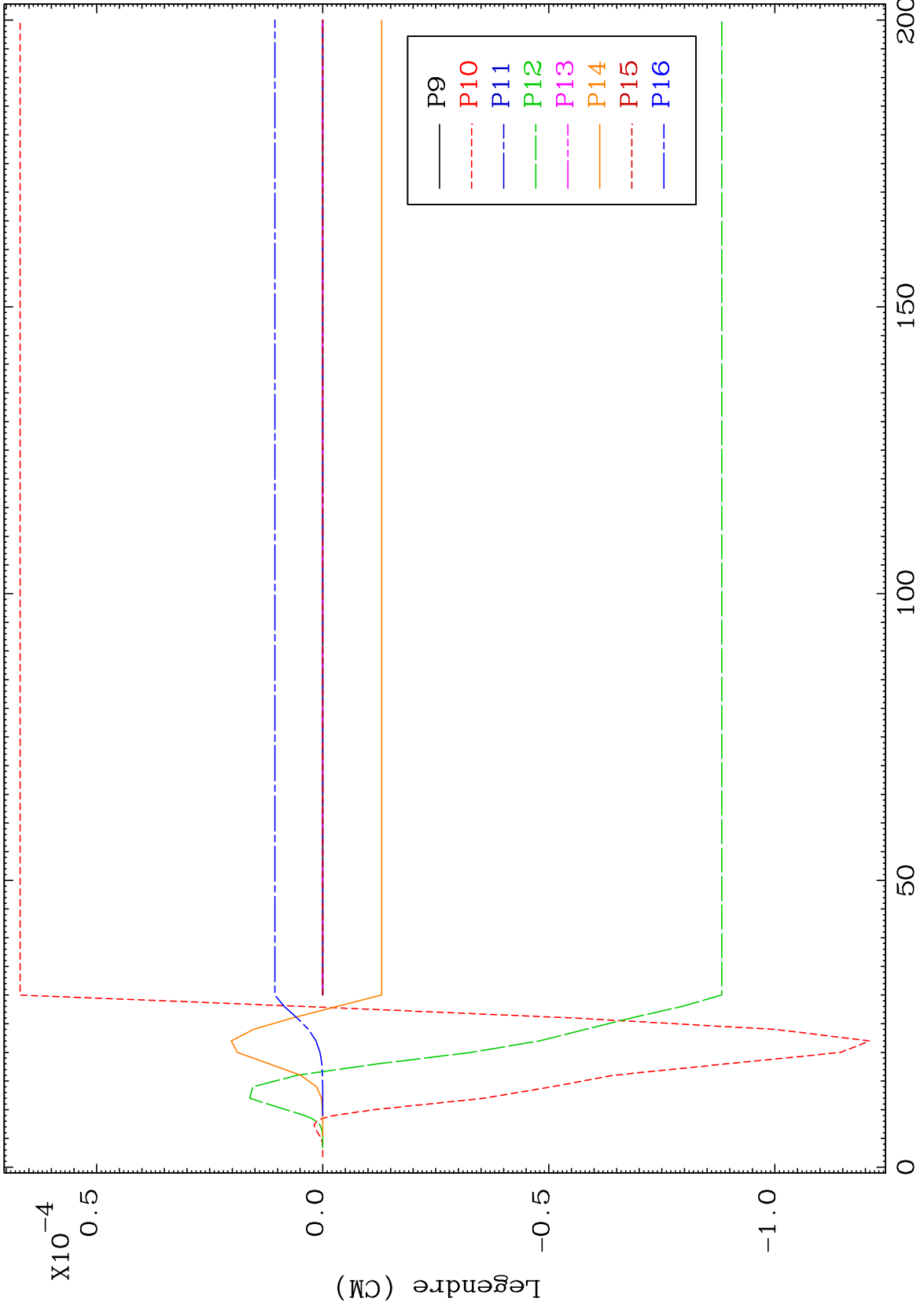


88

Incident Energy (MeV)

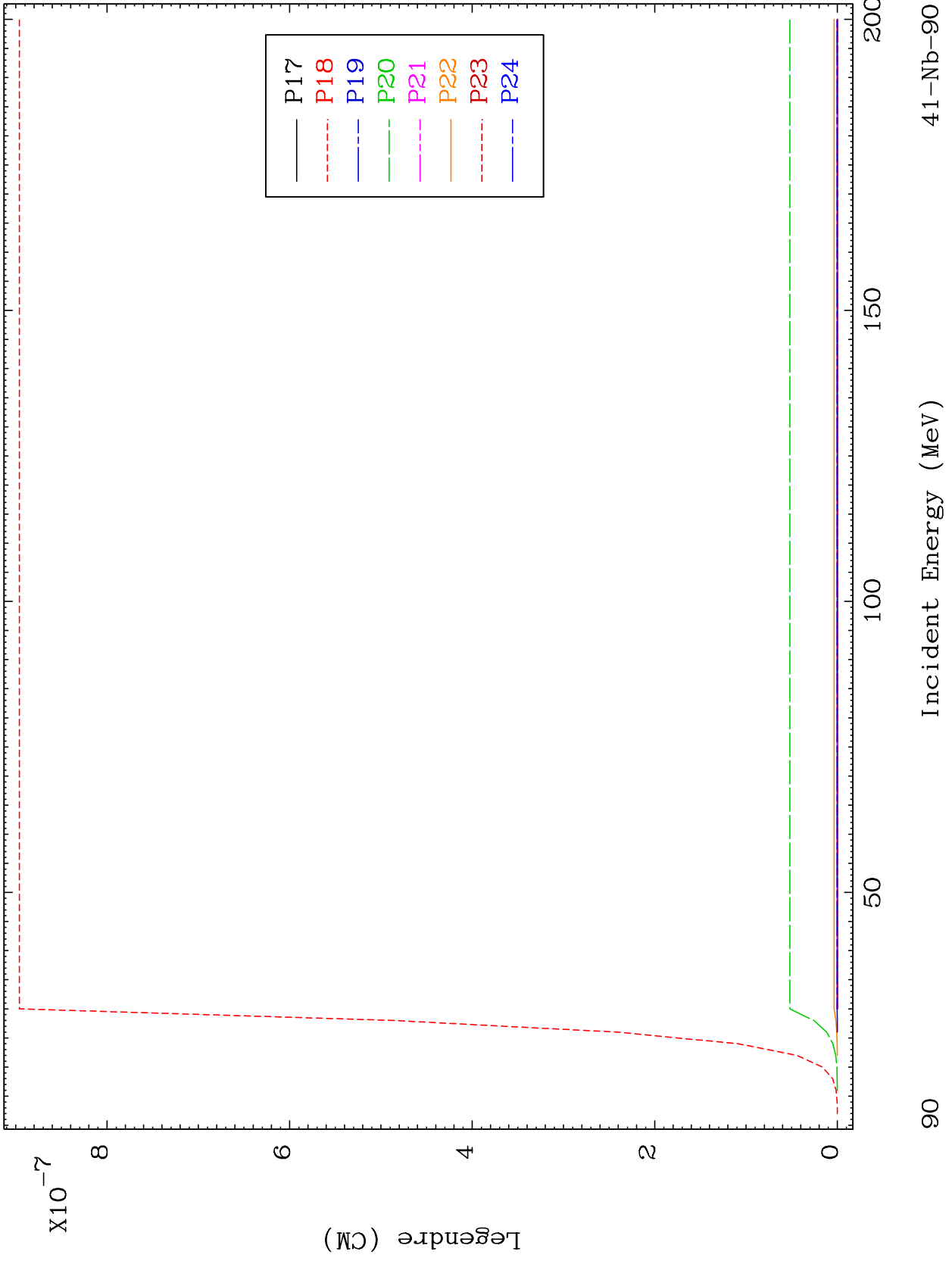
41-Nb-90

MAT 4116 MT= 72 (n,n') Level Legendre Coefficients 41-Nb-90



89 41-Nb-90

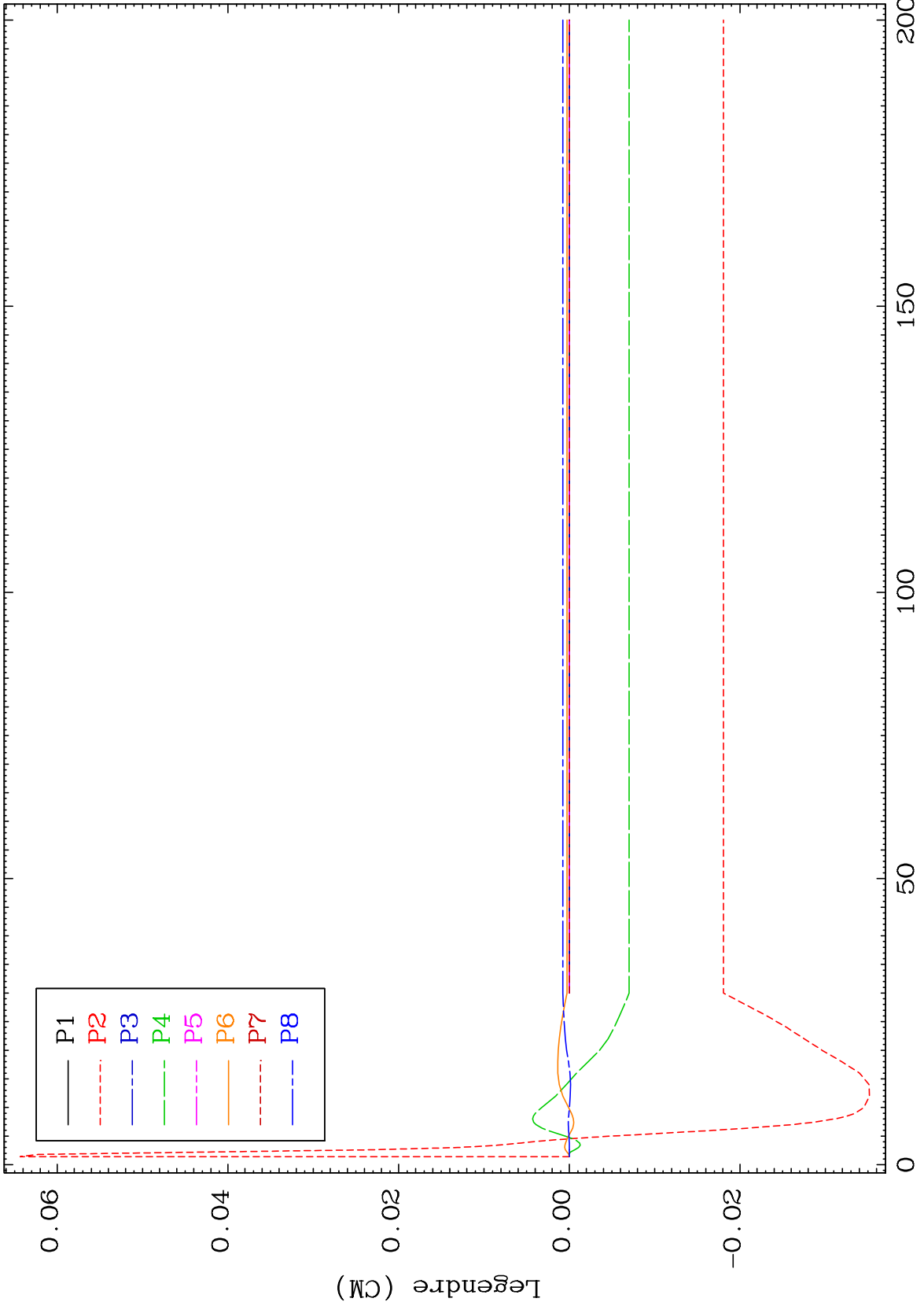
MAT 4116 MT= 72 (n,n') Level Legendre Coefficients 41-Nb-90



MAT 4116

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

41-Nb-90



91

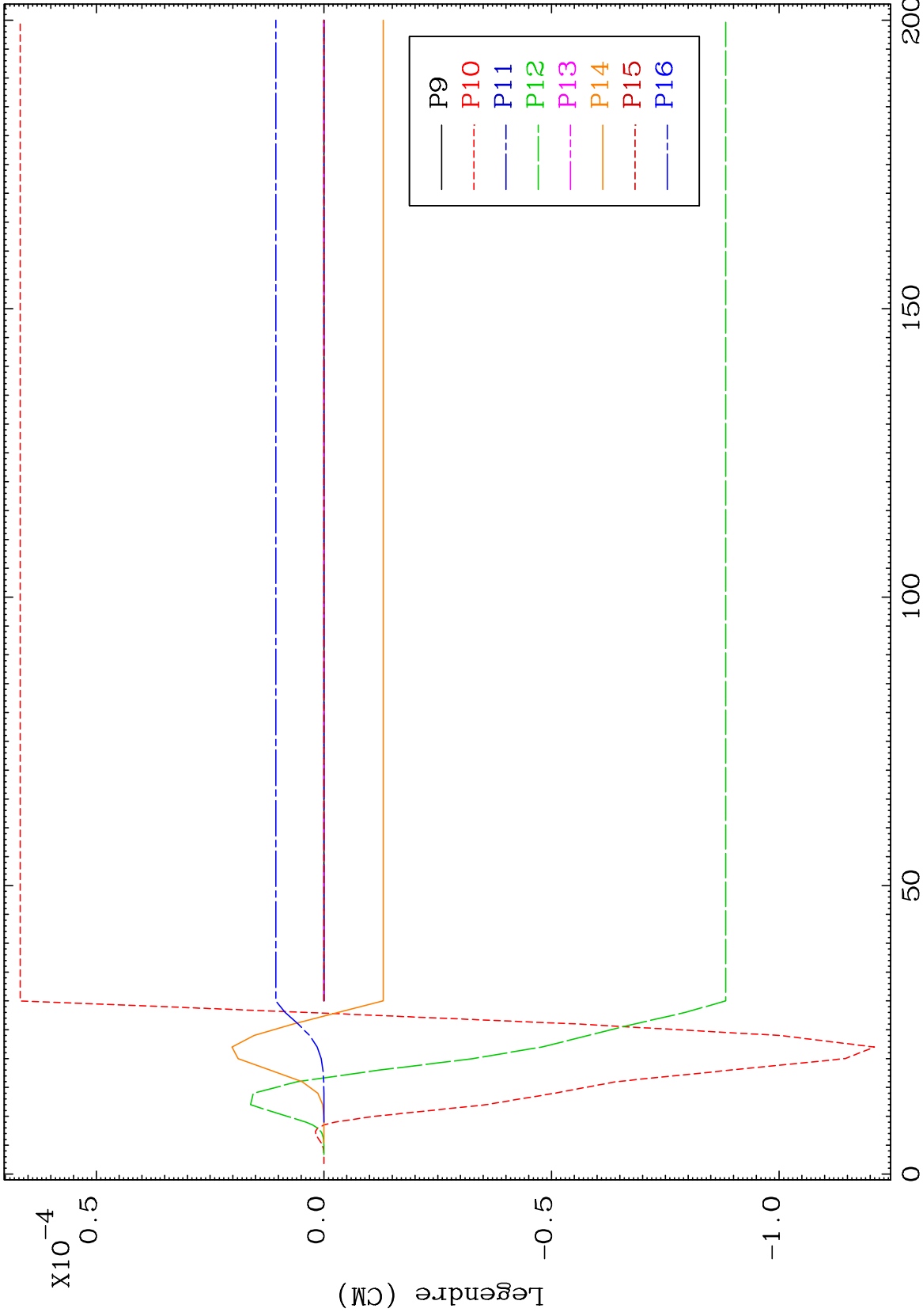
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90

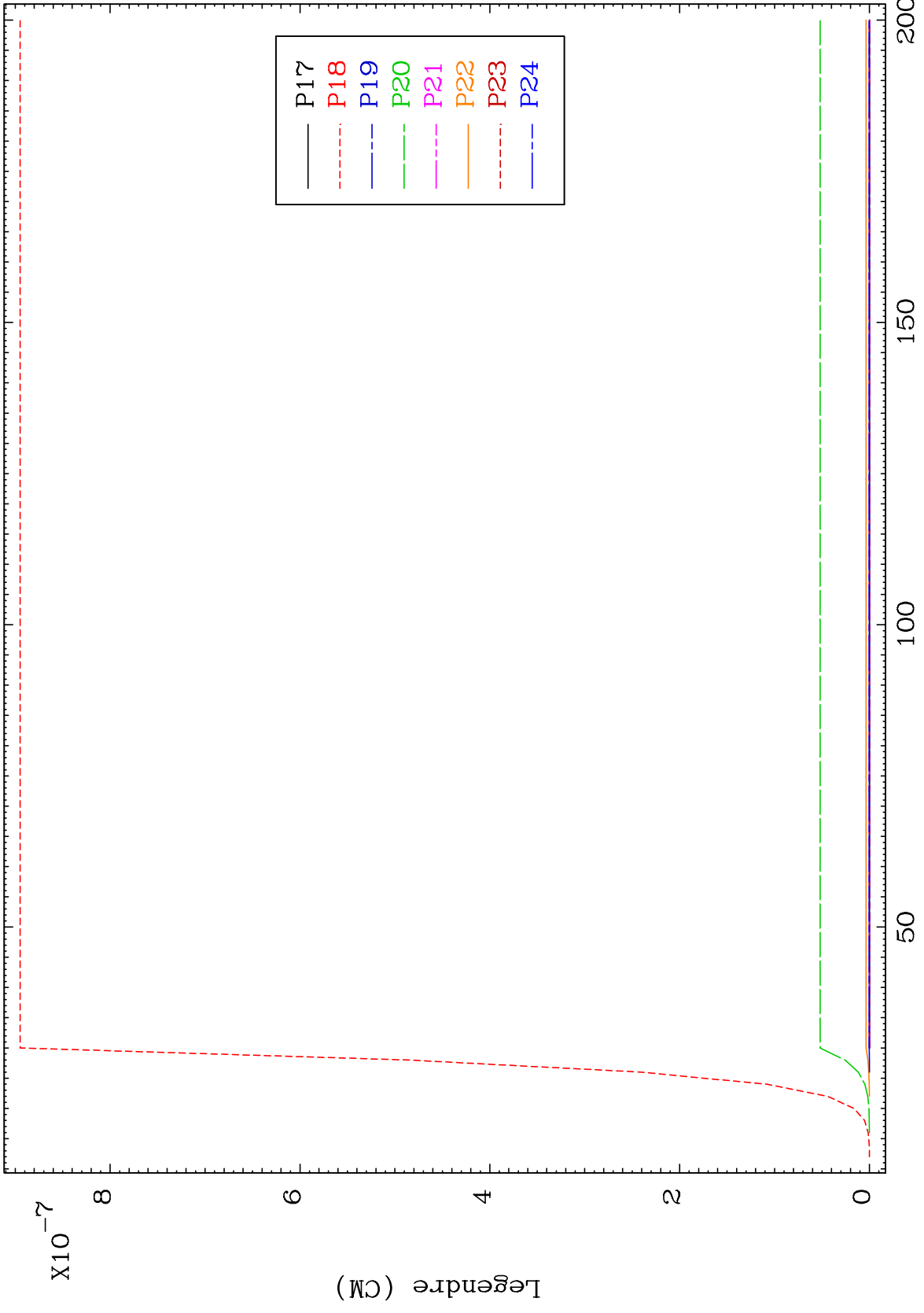


92

Incident Energy (MeV)

41-Nb-90

MAT 4116 MT= 73 (n,n') Level Legendre Coefficients 41-Nb-90

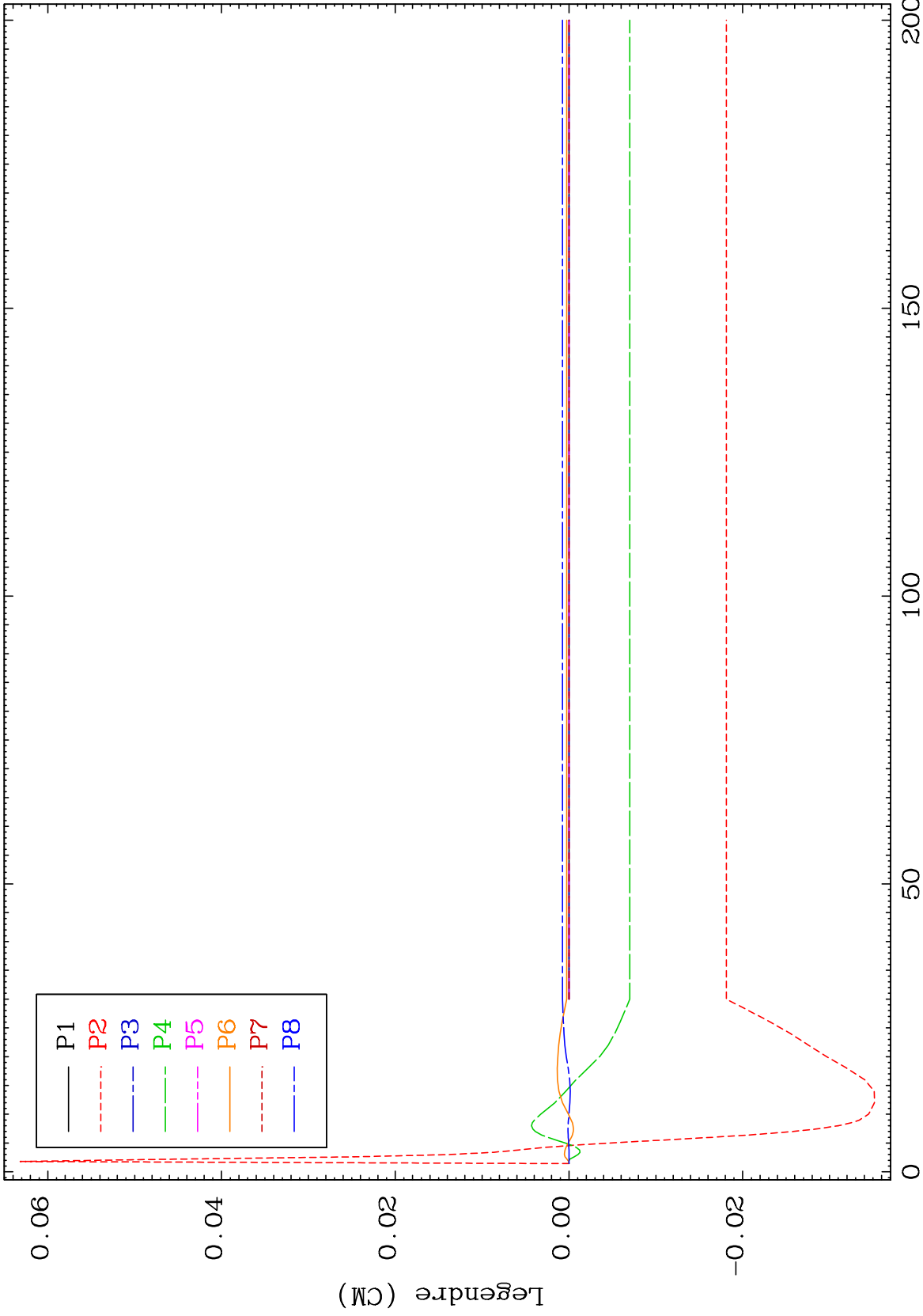


93 41-Nb-90

MAT 4116

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

41-Nb-90

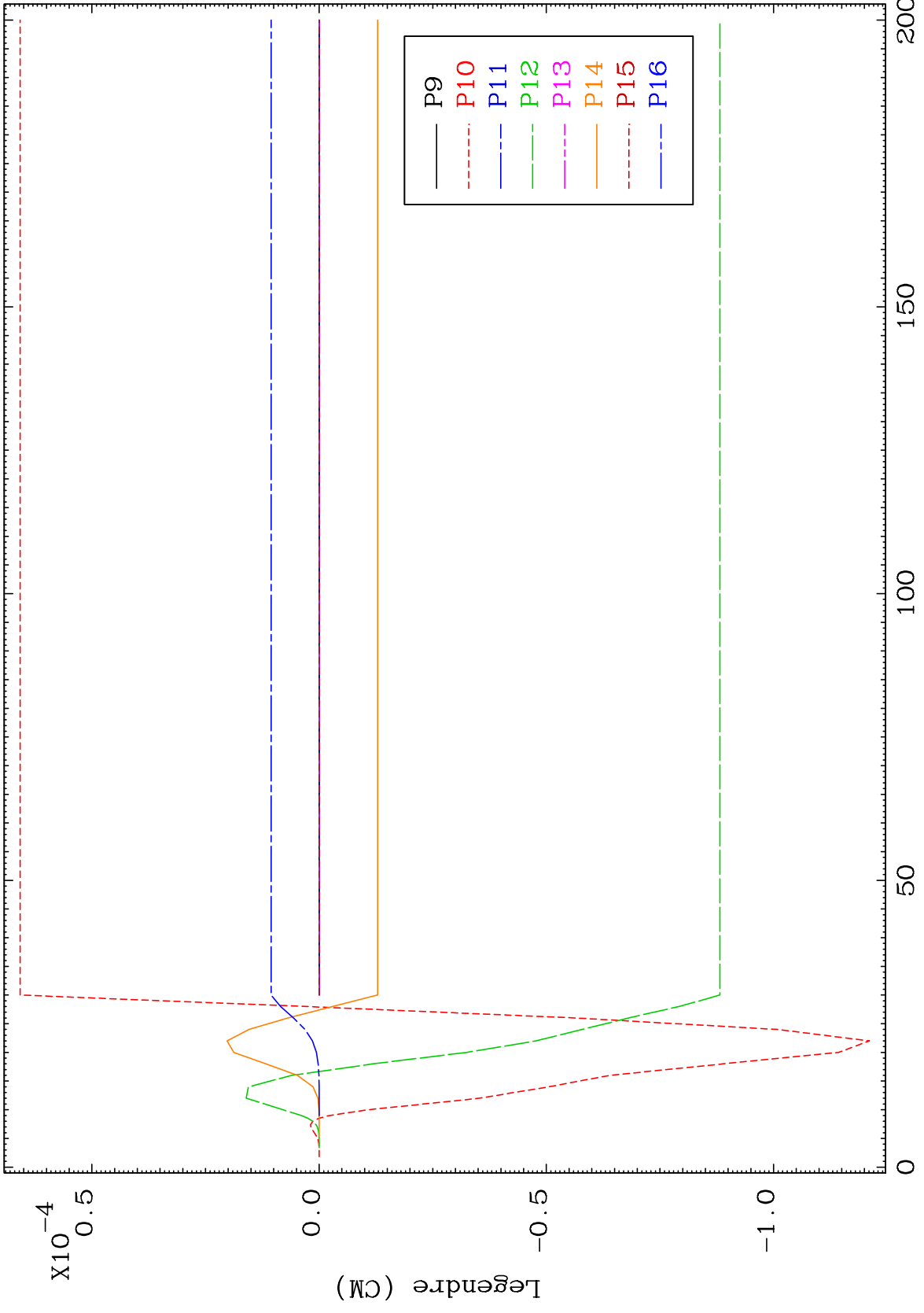


94

Incident Energy (MeV)

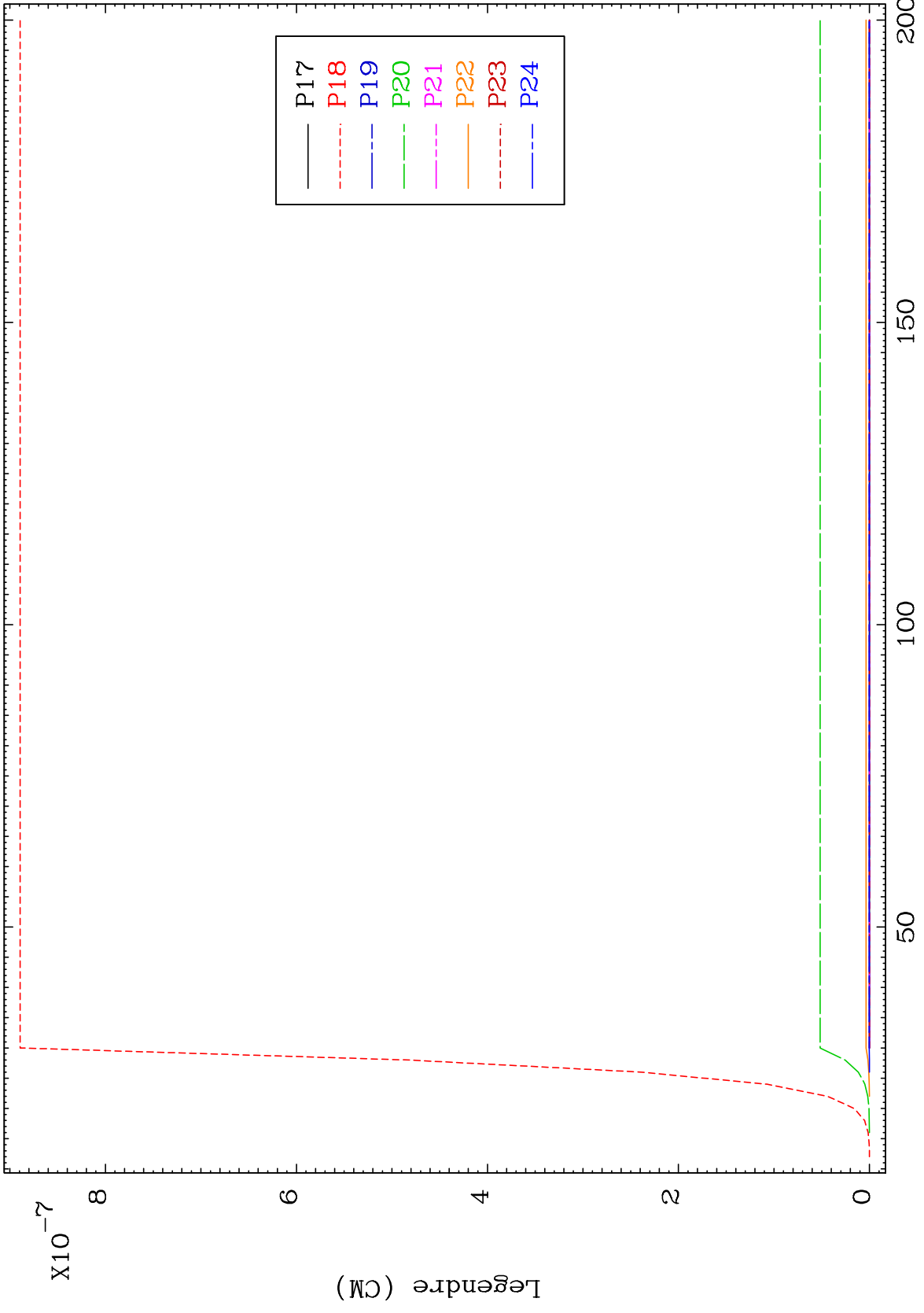
41-Nb-90

MAT 4116 MT= 74 (n,n') Level Legendre Coefficients 41-Nb-90



95 Incident Energy (MeV) 41-Nb-90

MAT 4116 MT= 74 (n,n') Level Legendre Coefficients 41-Nb-90

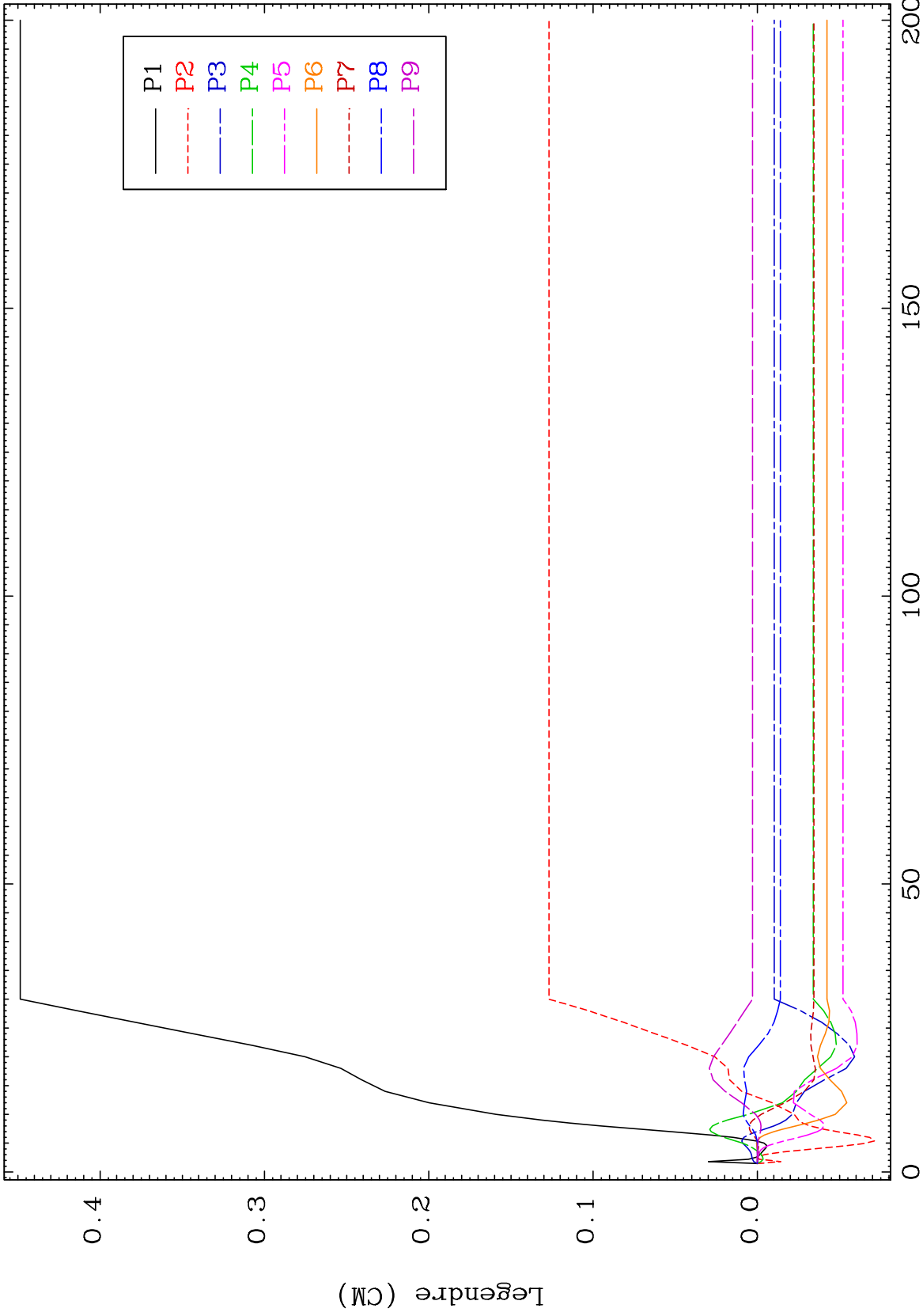


96 41-Nb-90

MAT 4116

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

41-Nb-90



97

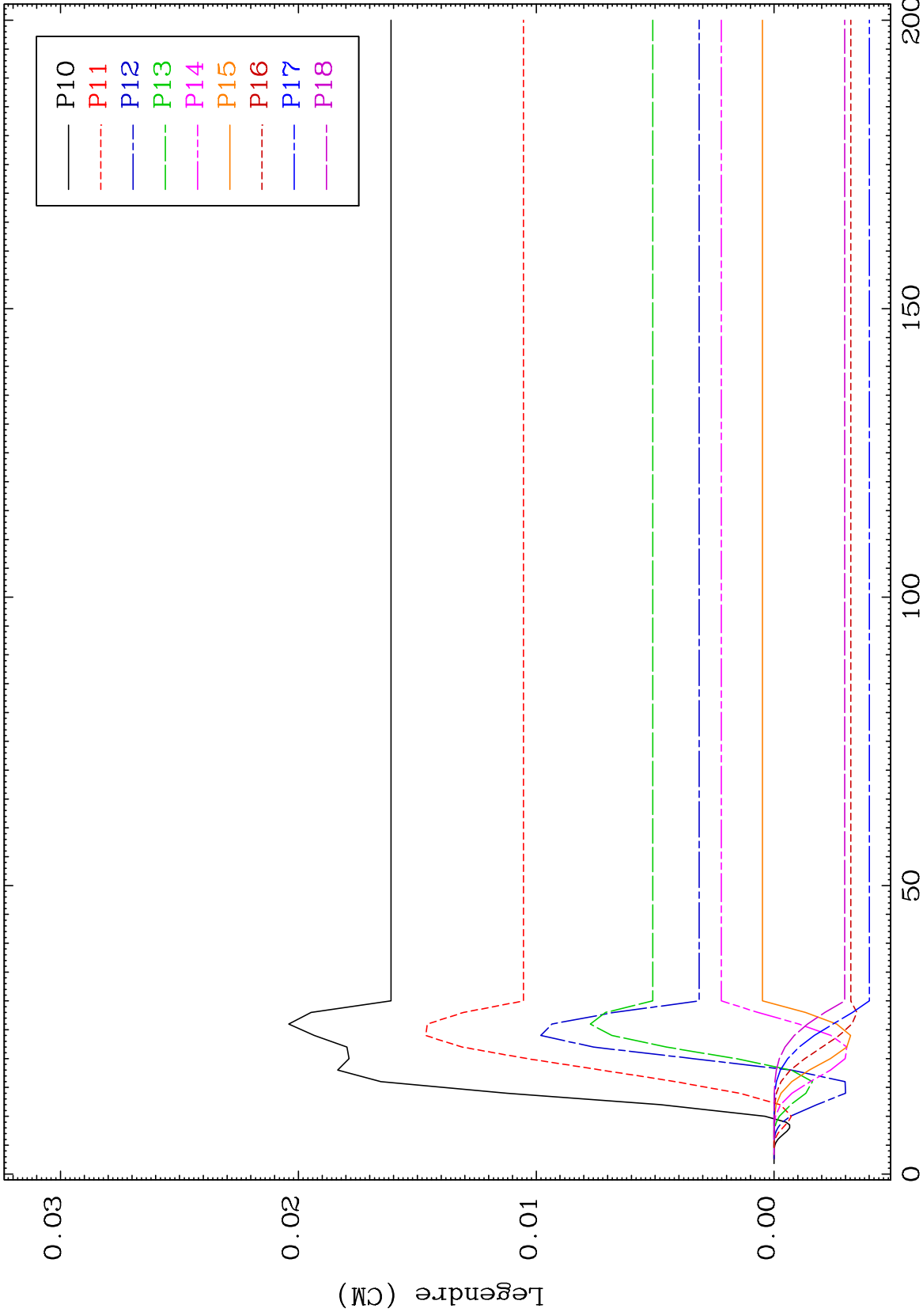
Incident Energy (MeV)

41-Nb-90

MAT 4116

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

41-Nb-90

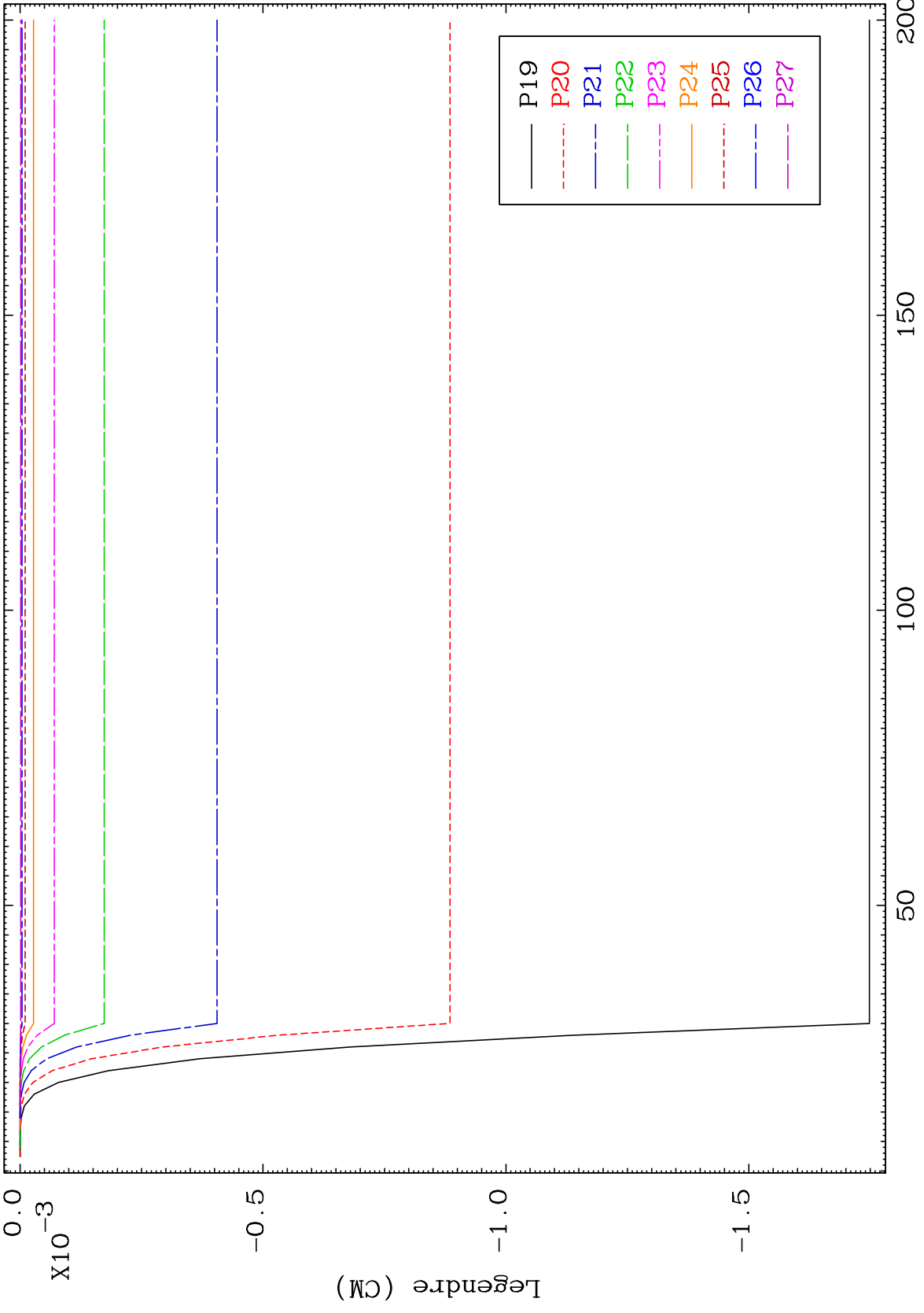


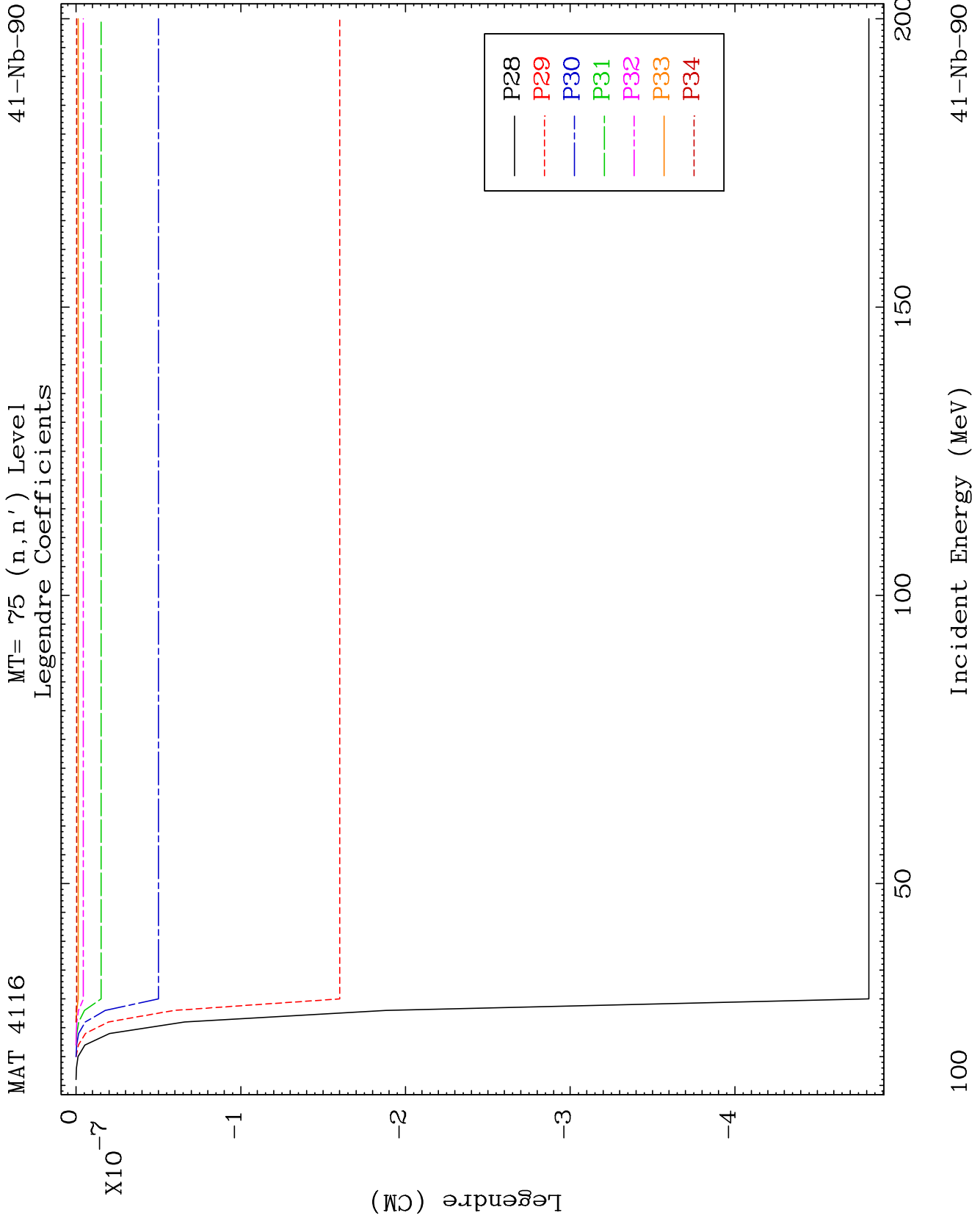
98

Incident Energy (MeV)

41-Nb-90

MAT 4116 MT= 75 (n,n') Level Legendre Coefficients 41-Nb-90

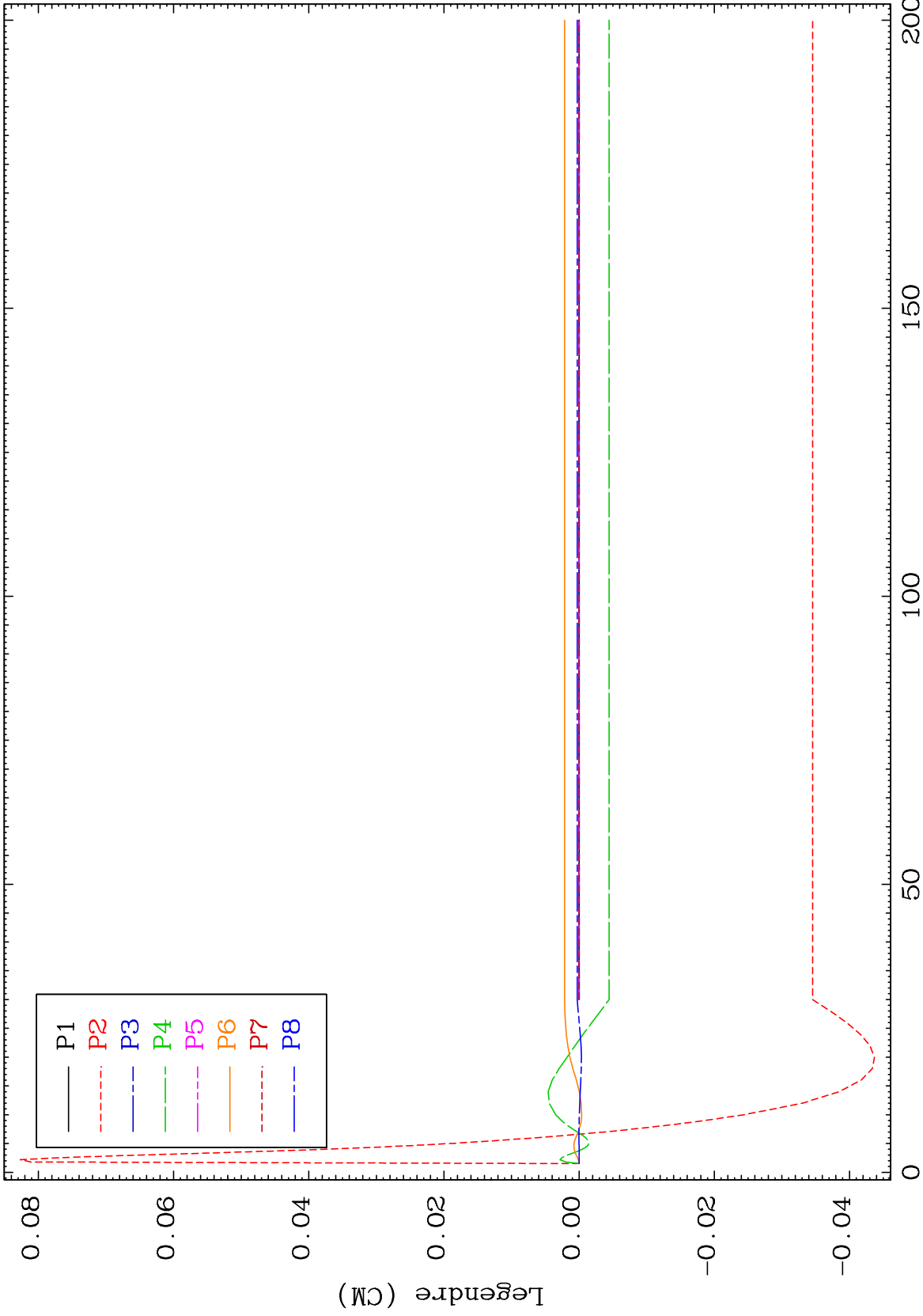




MAT 4116

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

41-Nb-90

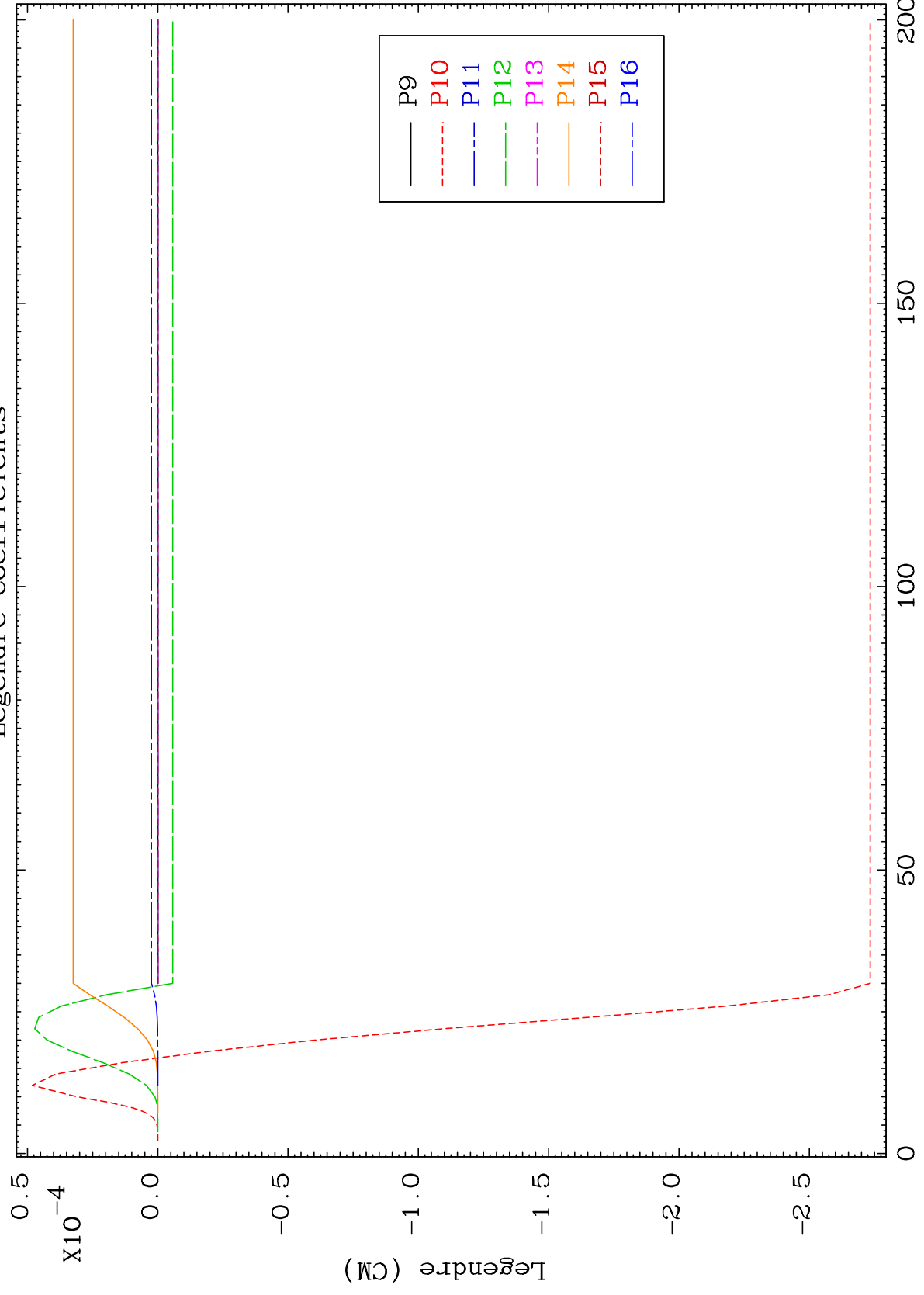


101

Incident Energy (MeV)

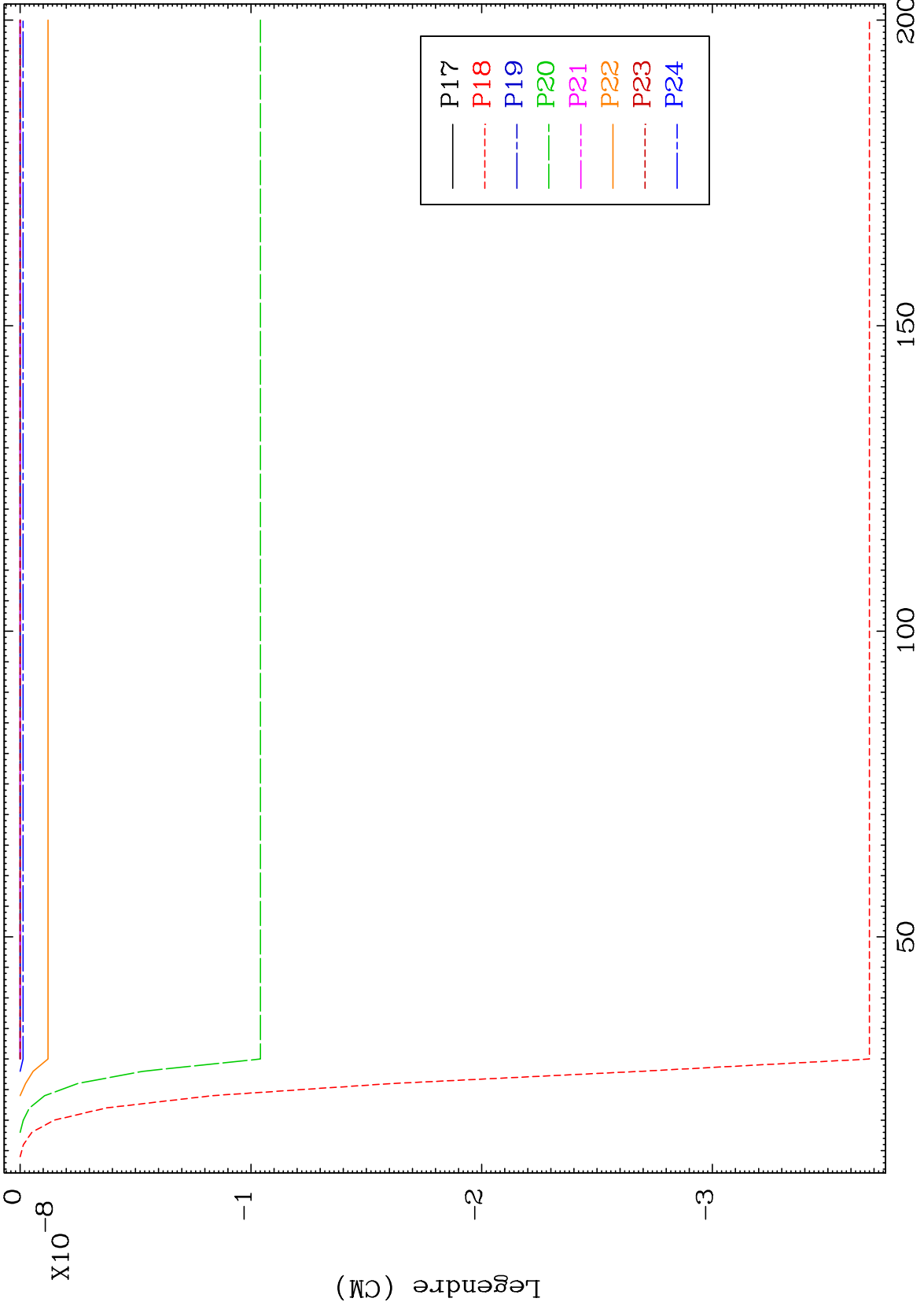
41-Nb-90

MAT 4116 MT= 76 (n,n') Level Legendre Coefficients 41-Nb-90



102 Incident Energy (MeV) 41-Nb-90

MAT 4116 MT= 76 (n,n') Level Legendre Coefficients 41-Nb-90

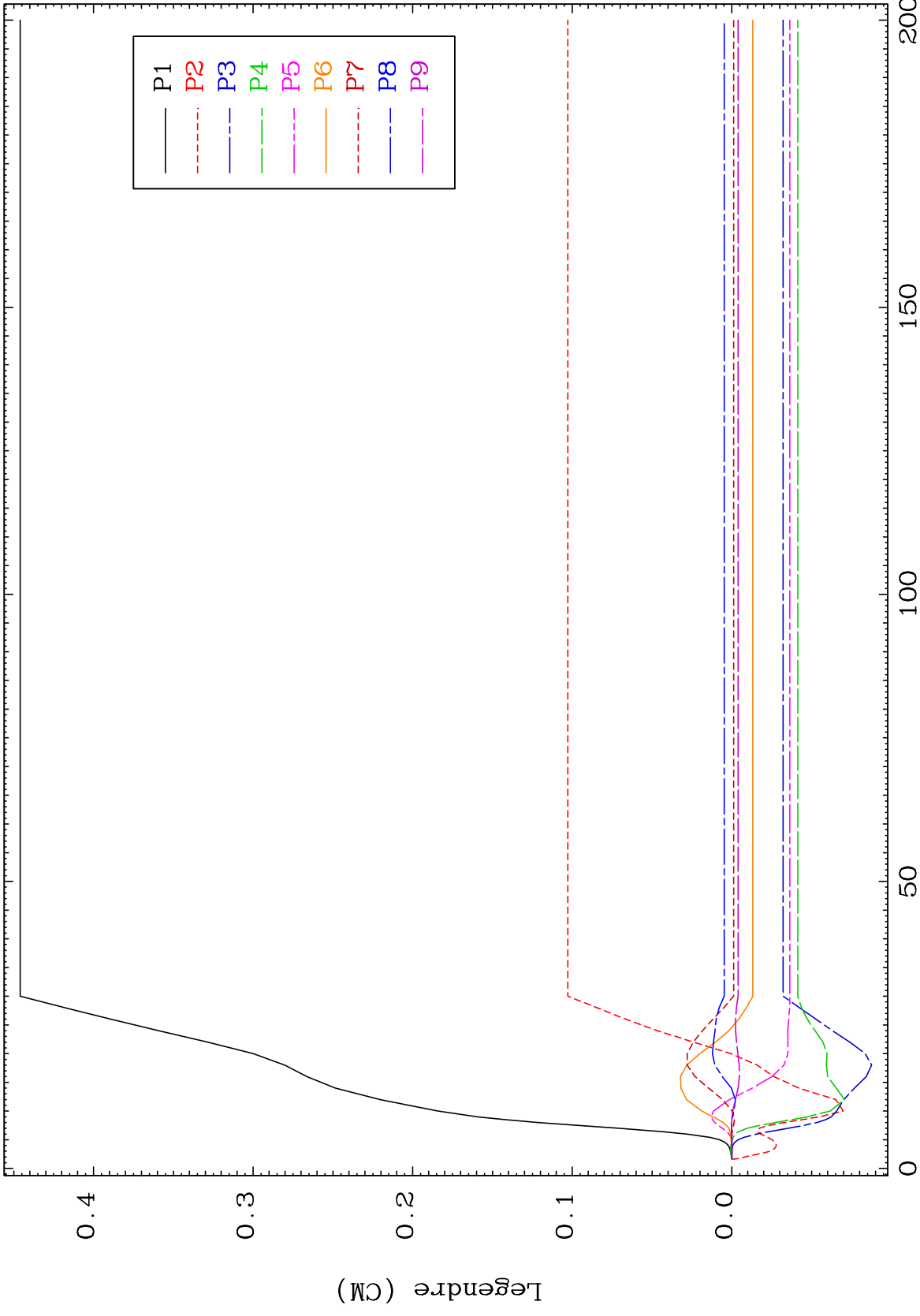


103 41-Nb-90

MAT 4116

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

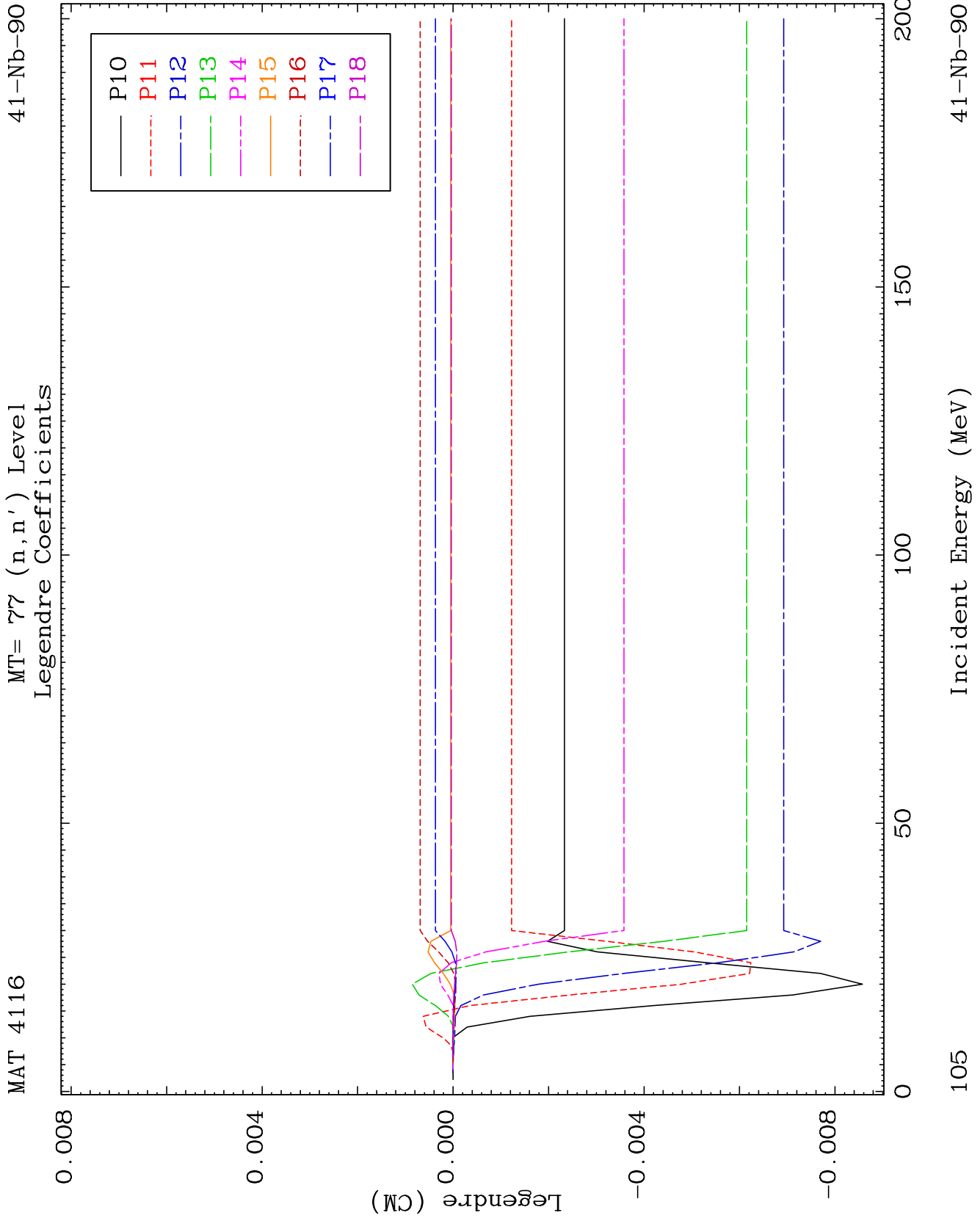
41-Nb-90



104

Incident Energy (MeV)

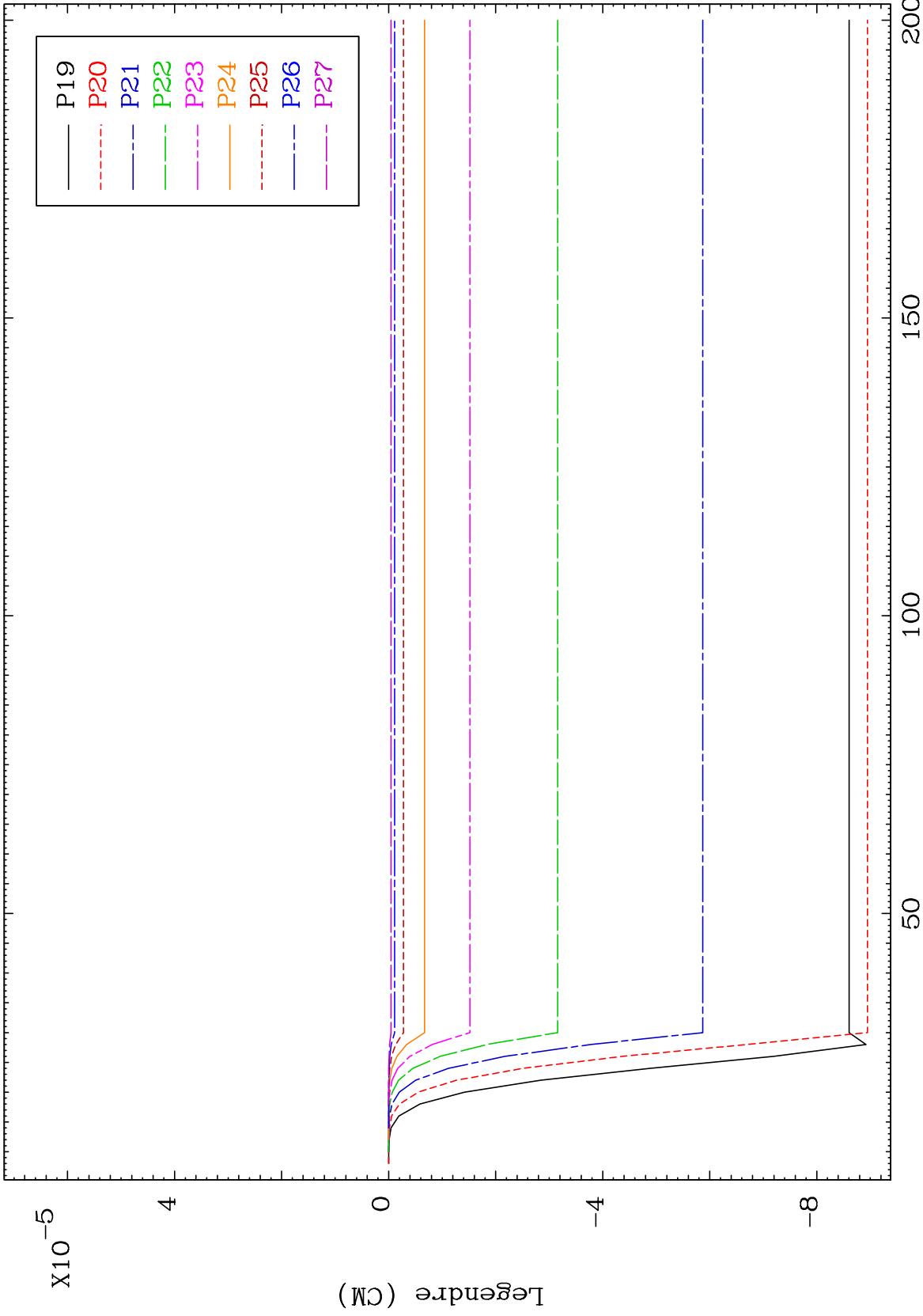
41-Nb-90



MAT 4116

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

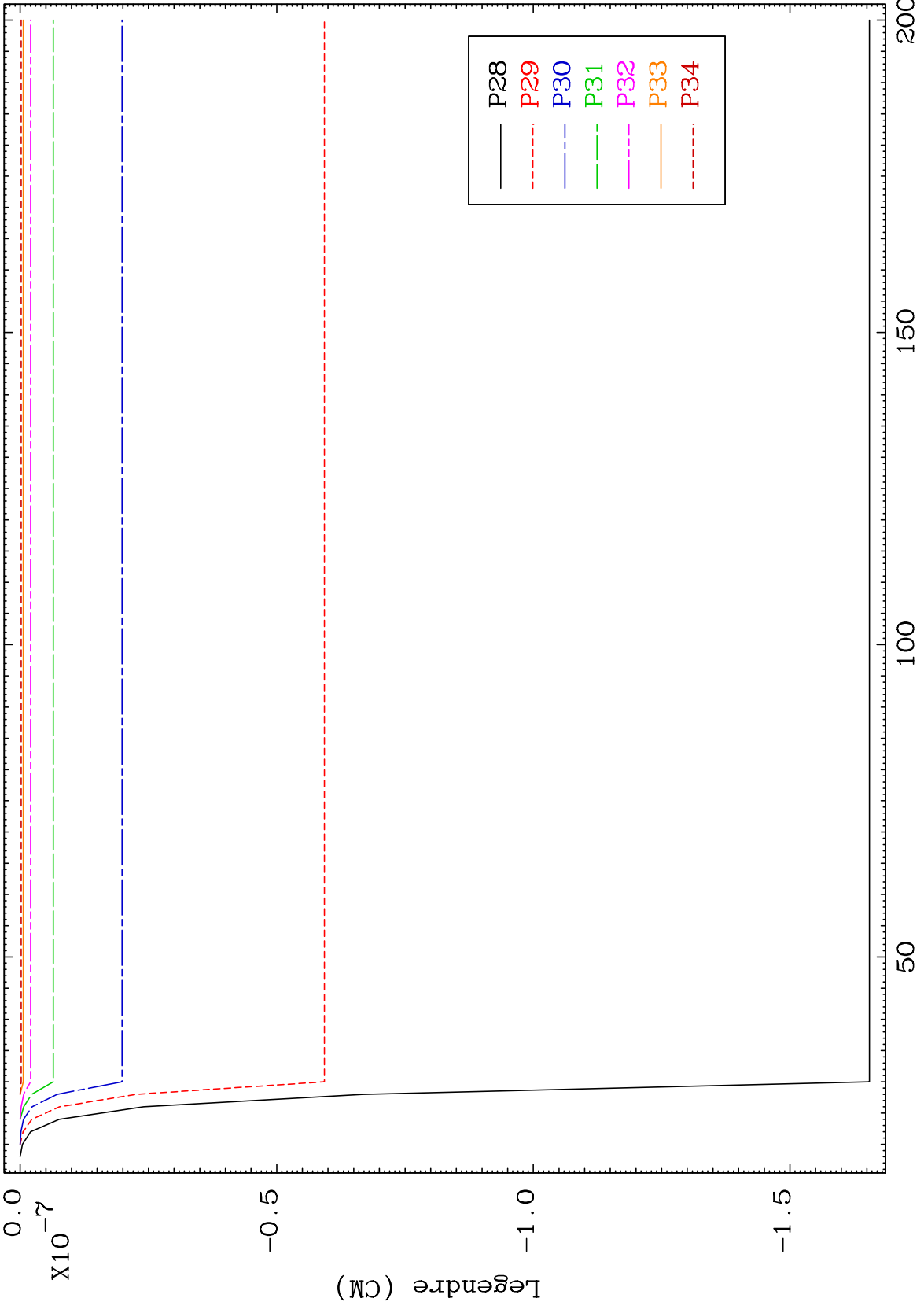
41-Nb-90



106

41-Nb-90

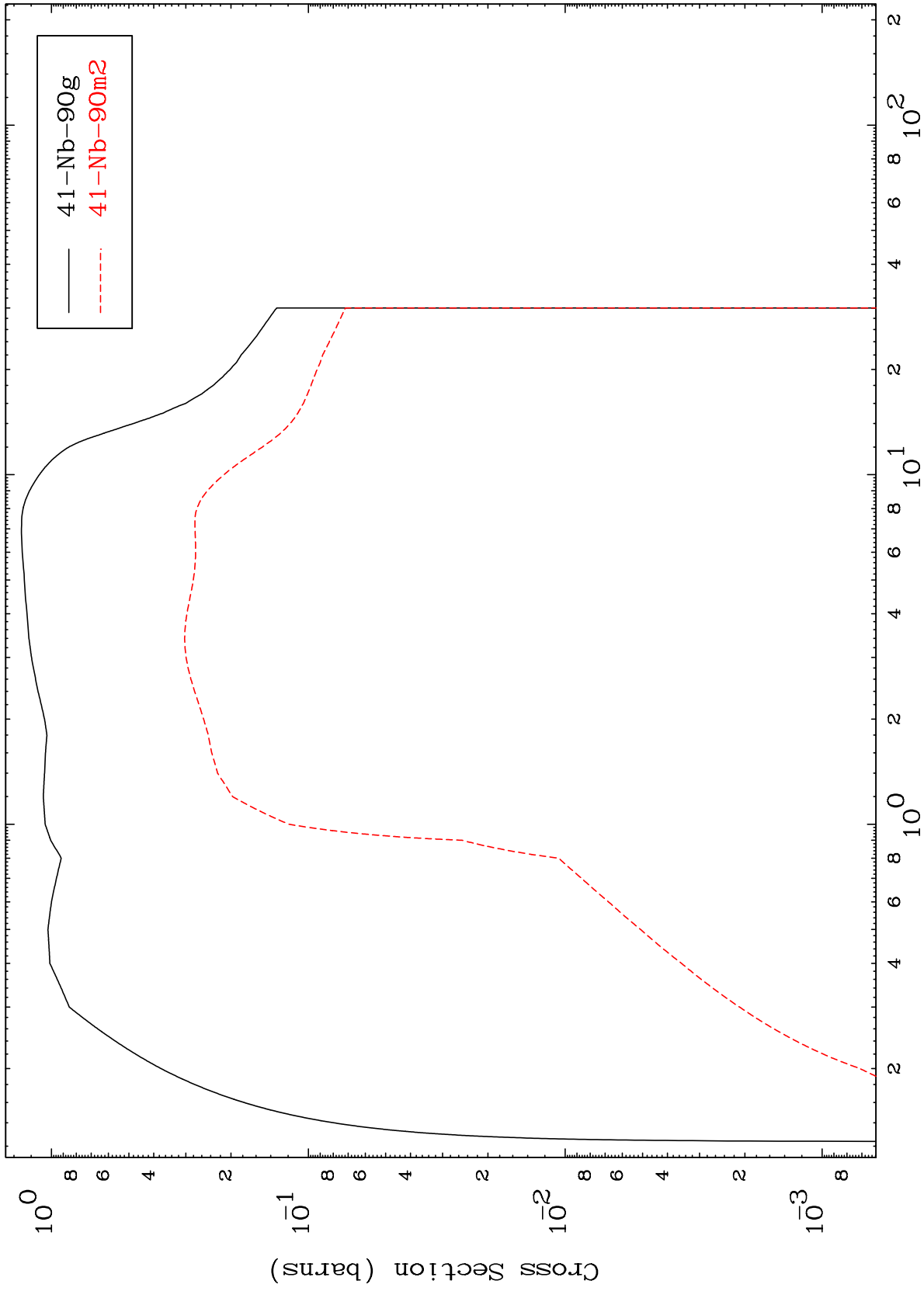
MAT 4116 MT= 77 (n,n') Level Legendre Coefficients 41-Nb-90



MAT 4116

41-Nb-90

Inelastic Radionuclide Production Cross Section



108

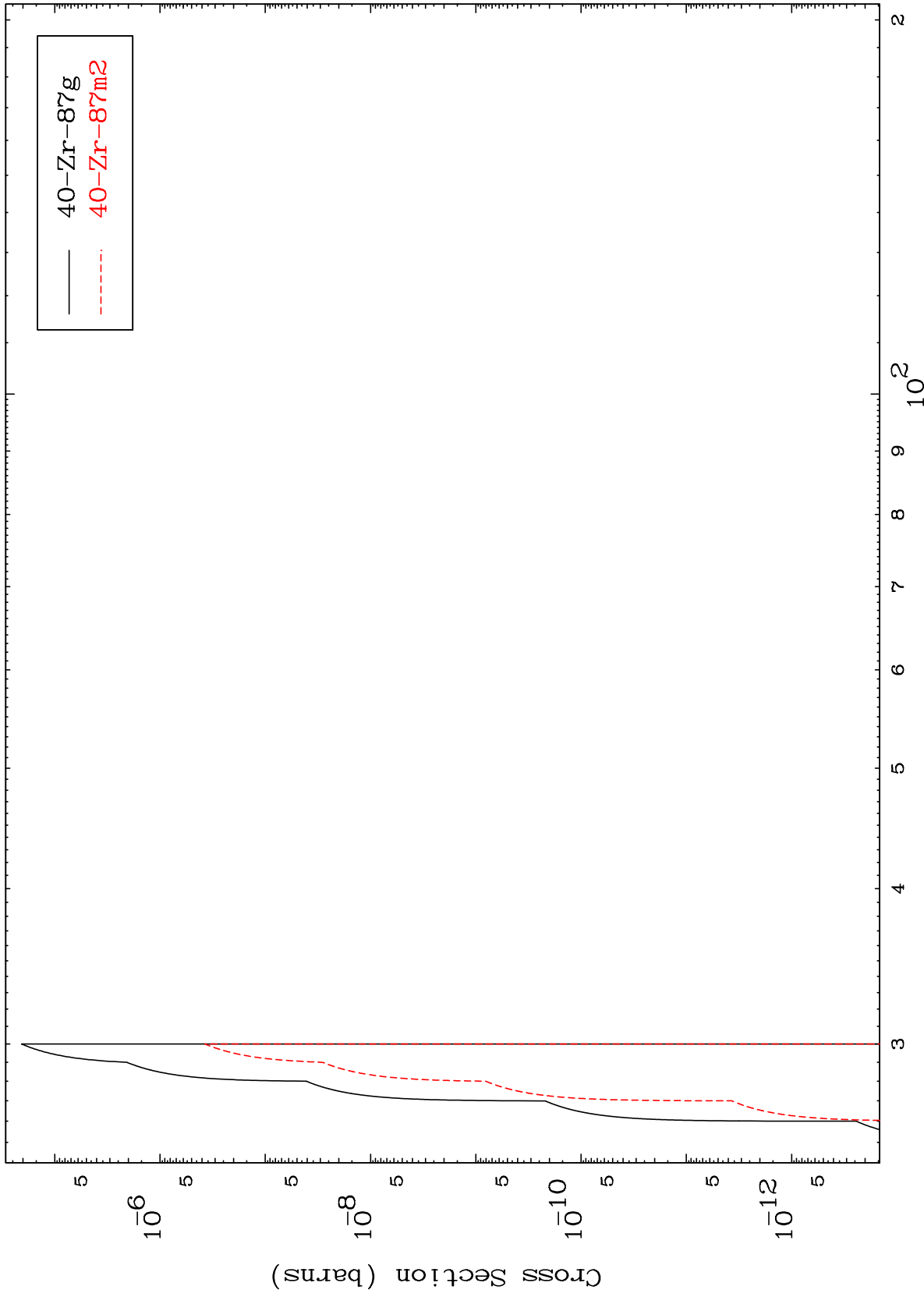
41-Nb-90

MAT 4116

(n,2n) d

41-Nb-90

Radionuclide Production Cross Section



109

Incident Energy (MeV)

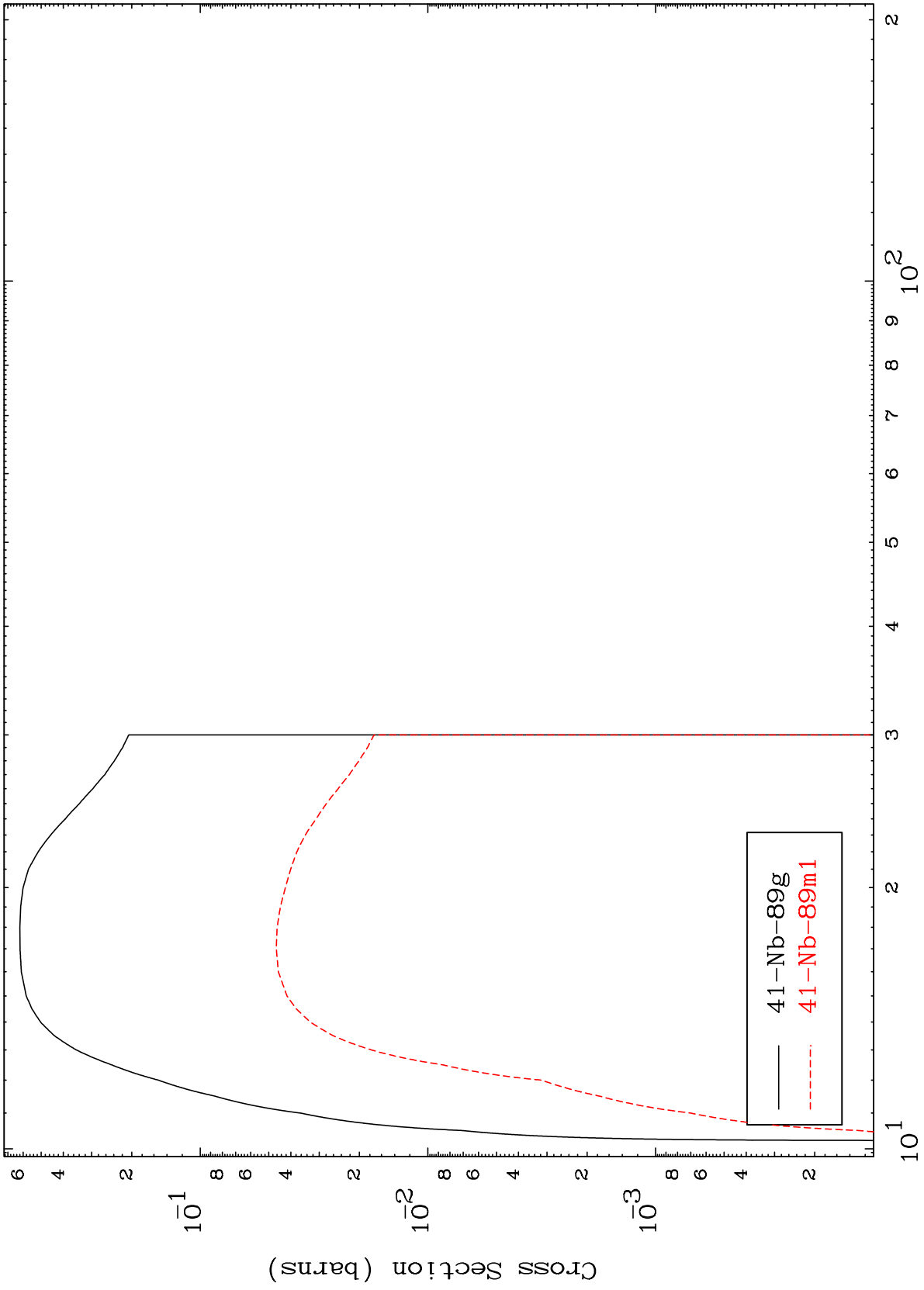
41-Nb-90

MAT 4116

41-Nb-90

Radionuclide Production Cross Section

(n,2n)



41-Nb-90

Incident Energy (MeV)

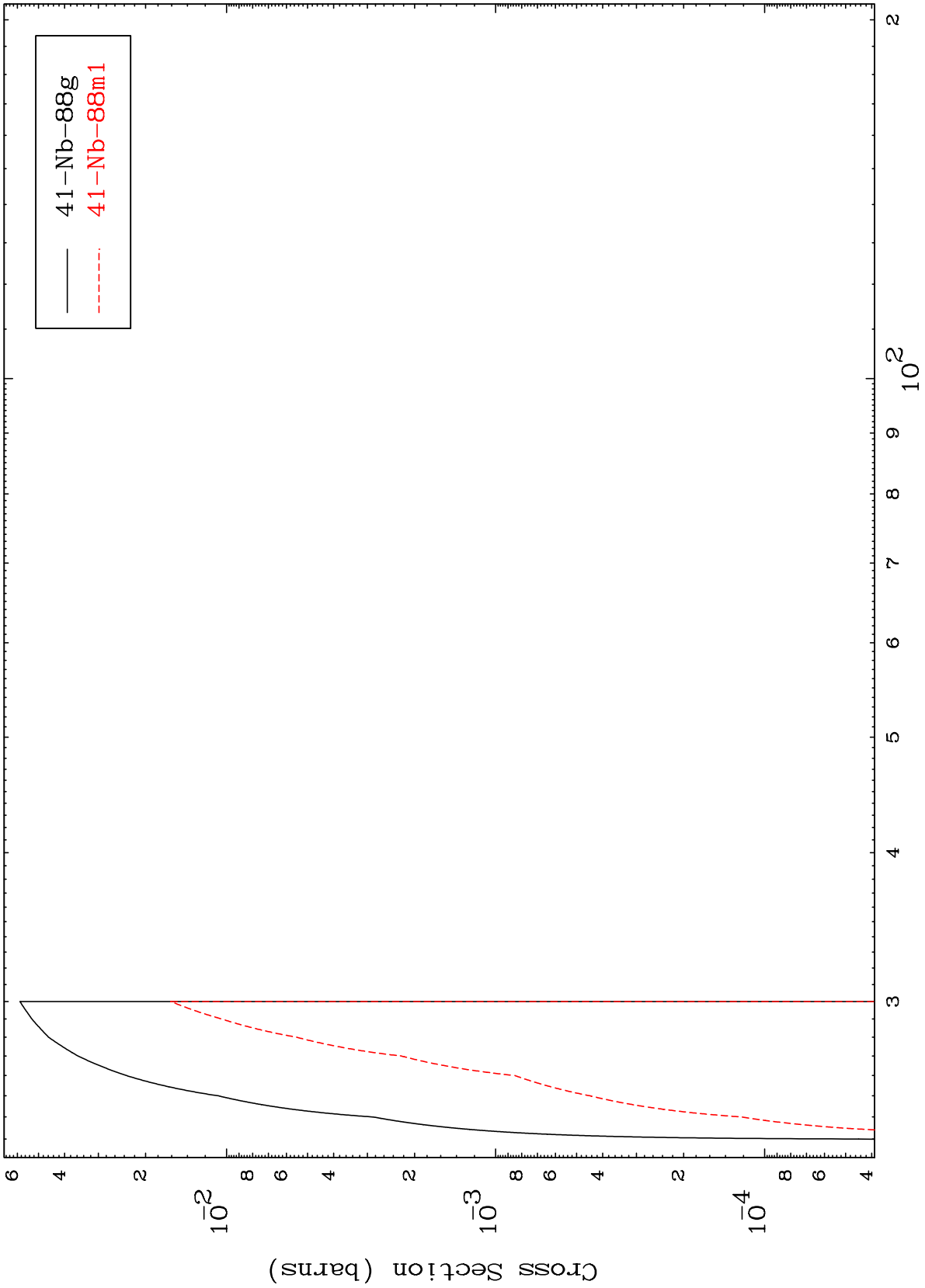
110

MAT 4116

(n,3n)

41-Nb-90

Radionuclide Production Cross Section



41-Nb-88g
41-Nb-88m1

111

Incident Energy (MeV)

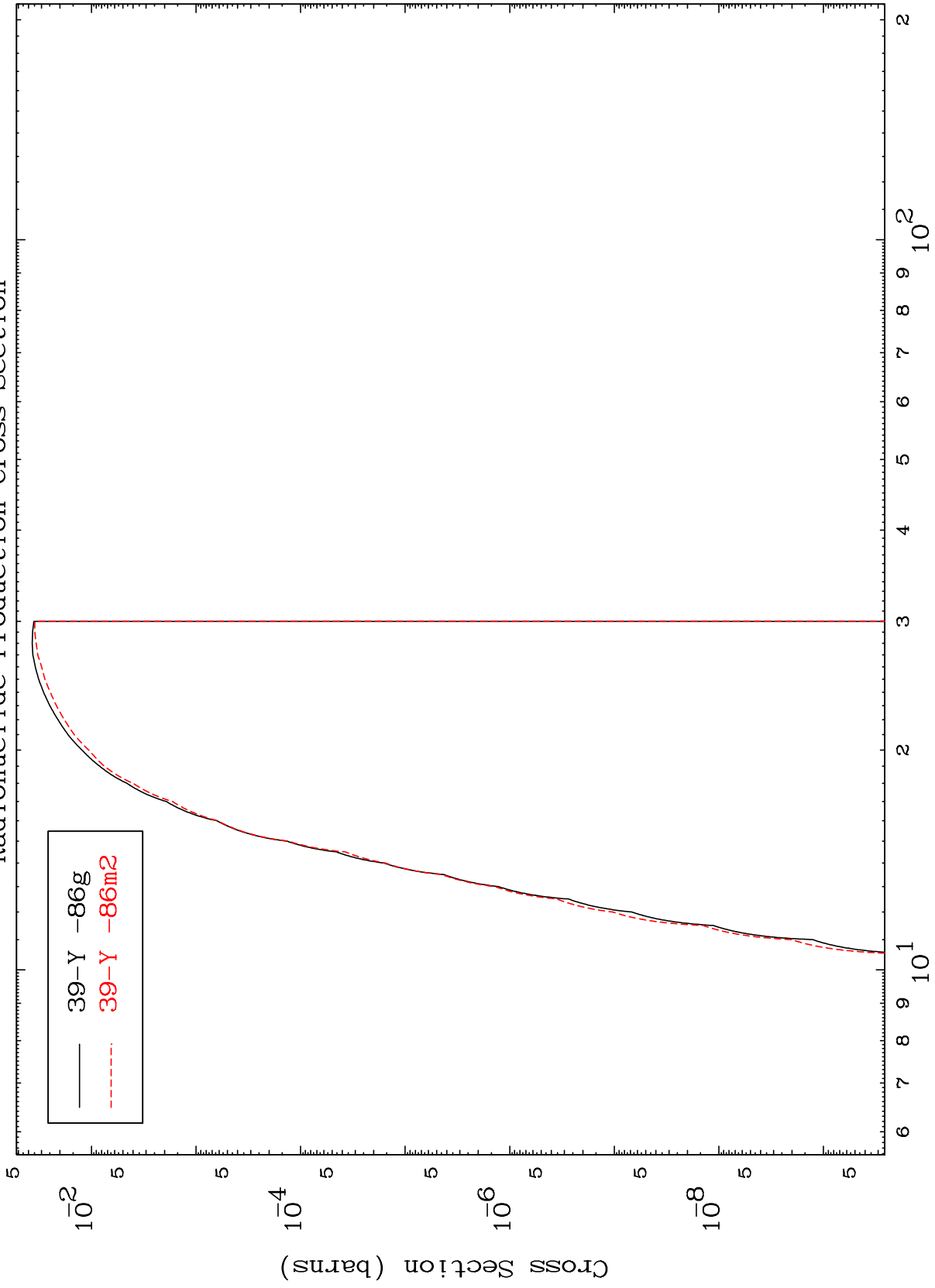
41-Nb-90

MAT 4116

(n,n') α

41-Nb-90

Radionuclide Production Cross Section



112

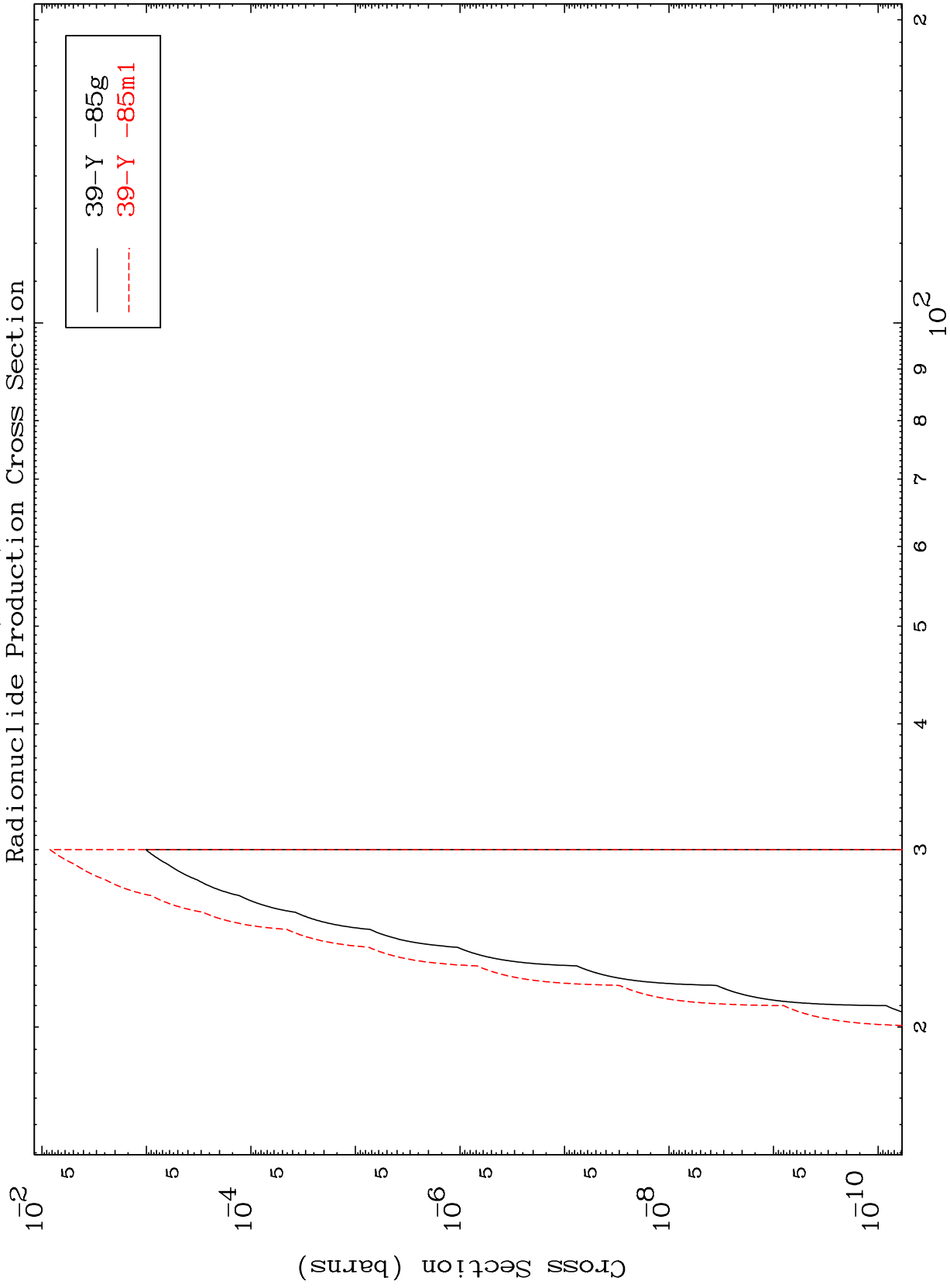
Incident Energy (MeV)

41-Nb-90

MAT 4116

(n,2n) α

41-Nb-90



113

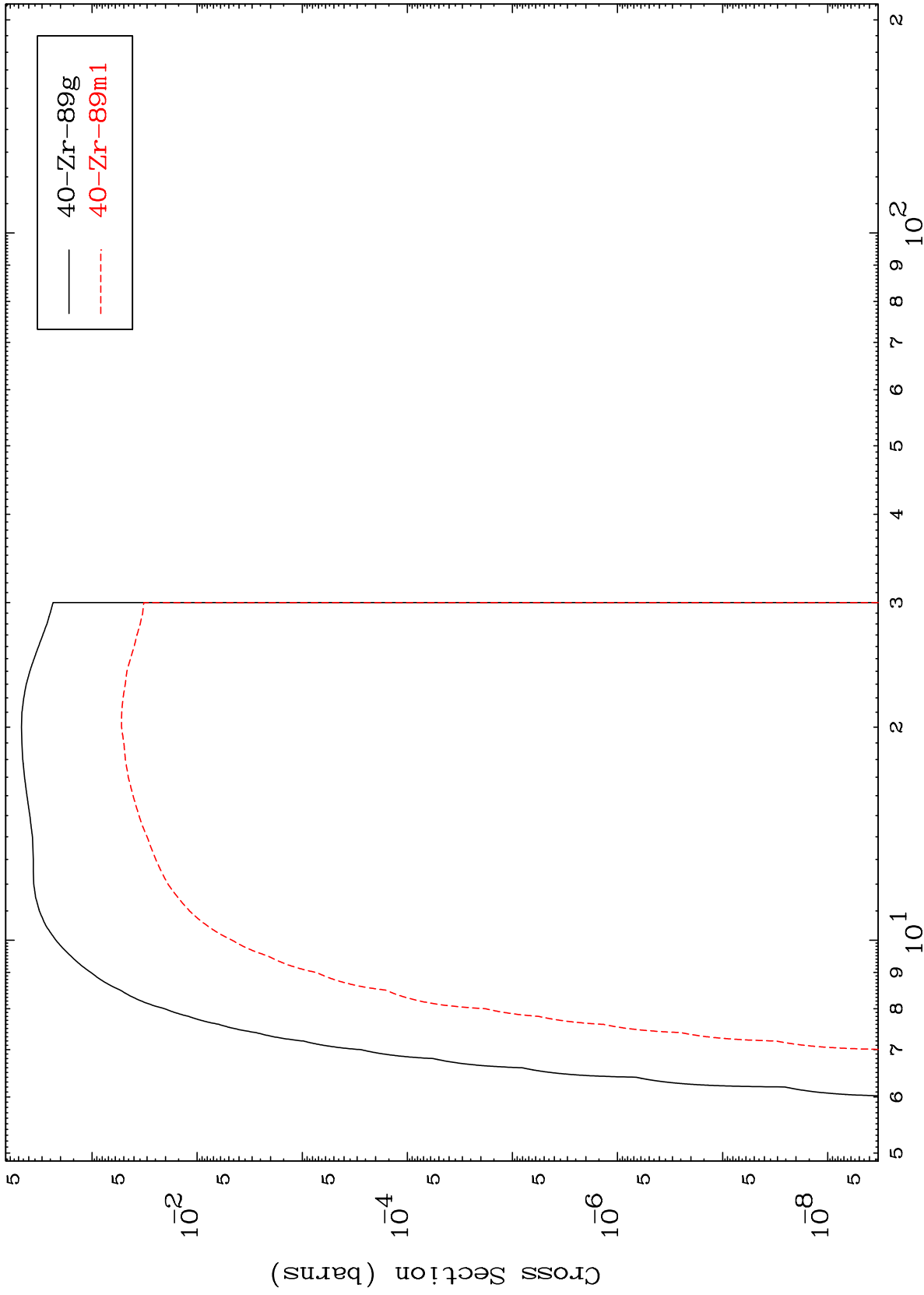
41-Nb-90

MAT 4116

(n,n') p

41-Nb-90

Radionuclide Production Cross Section



114

Incident Energy (MeV)

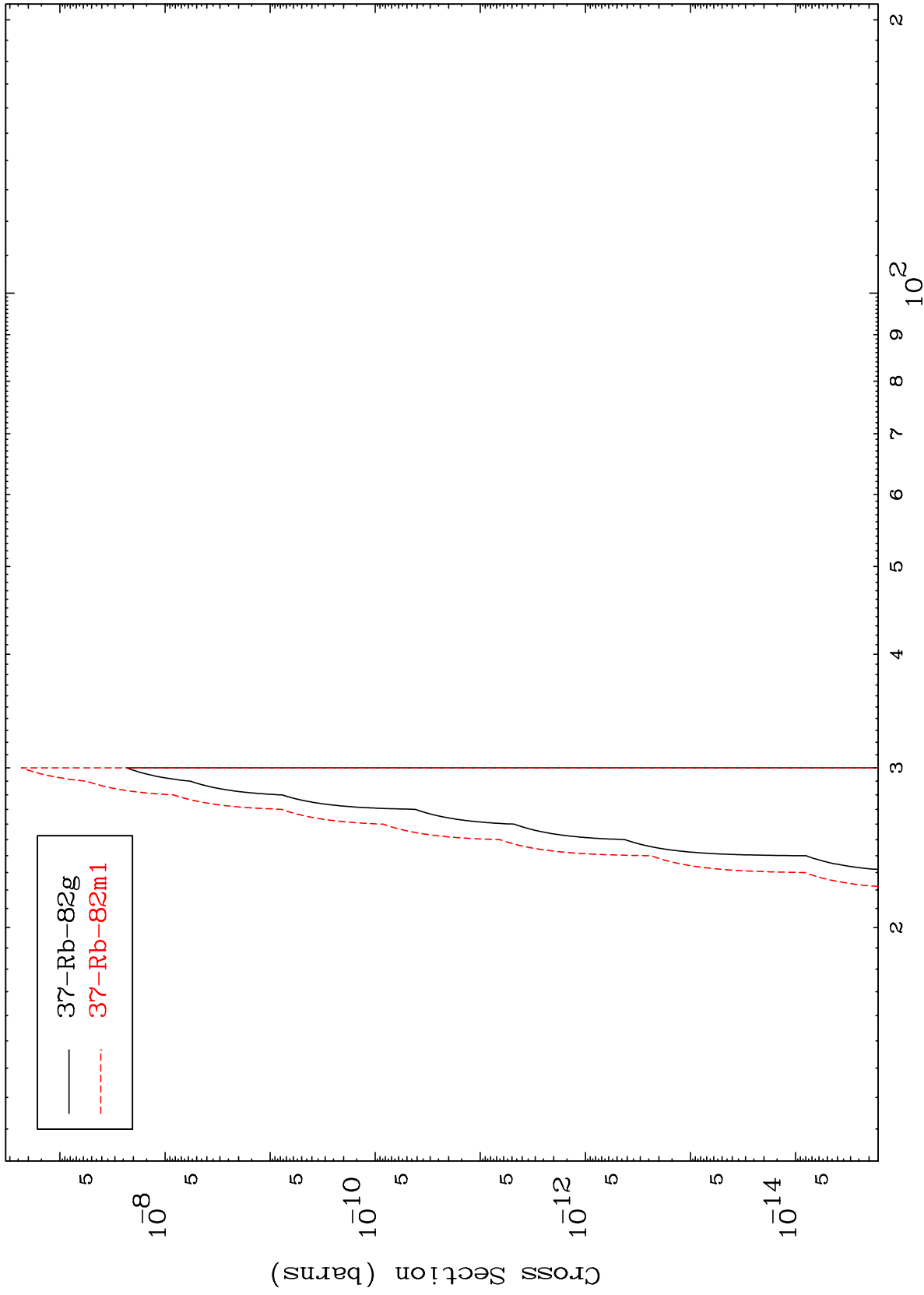
41-Nb-90

MAT 4116

(n,n') 2α

41-Nb-90

Radionuclide Production Cross Section



115

Incident Energy (MeV)

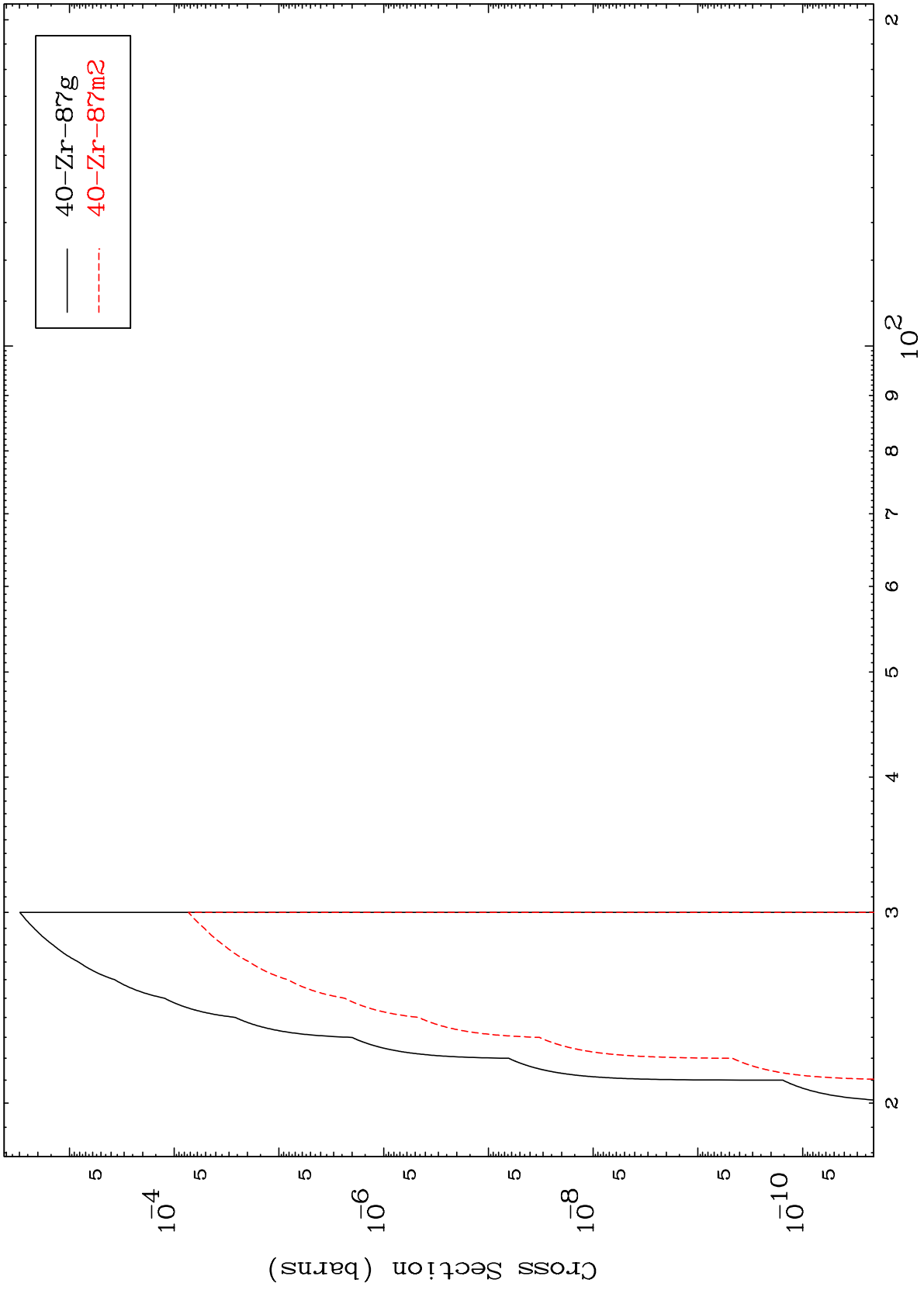
41-Nb-90

MAT 4116

(n,n') t

41-Nb-90

Radionuclide Production Cross Section



116

Incident Energy (MeV)

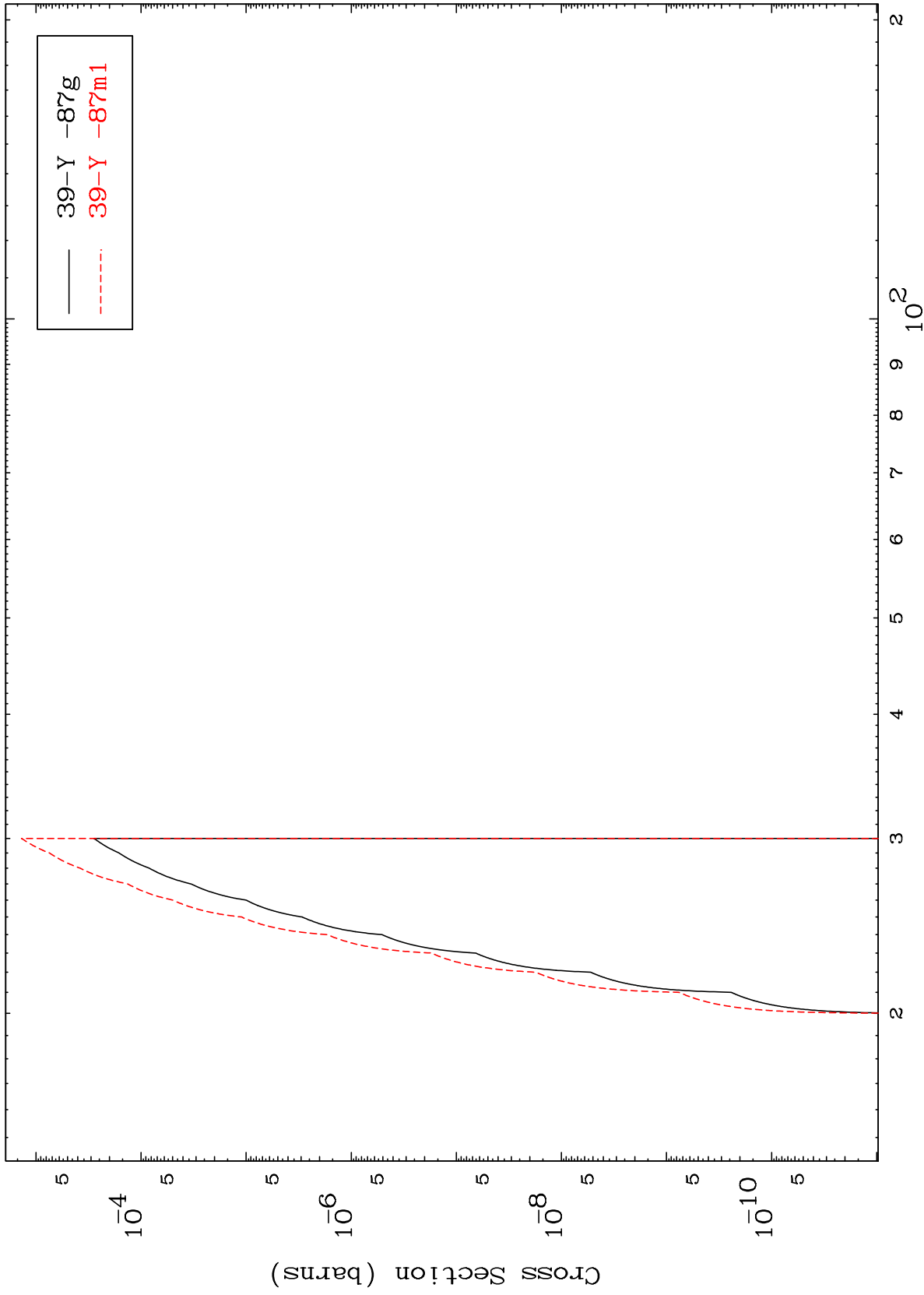
41-Nb-90

MAT 4116

(n, n') He-3

41-Nb-90

Radionuclide Production Cross Section



117

Incident Energy (MeV)

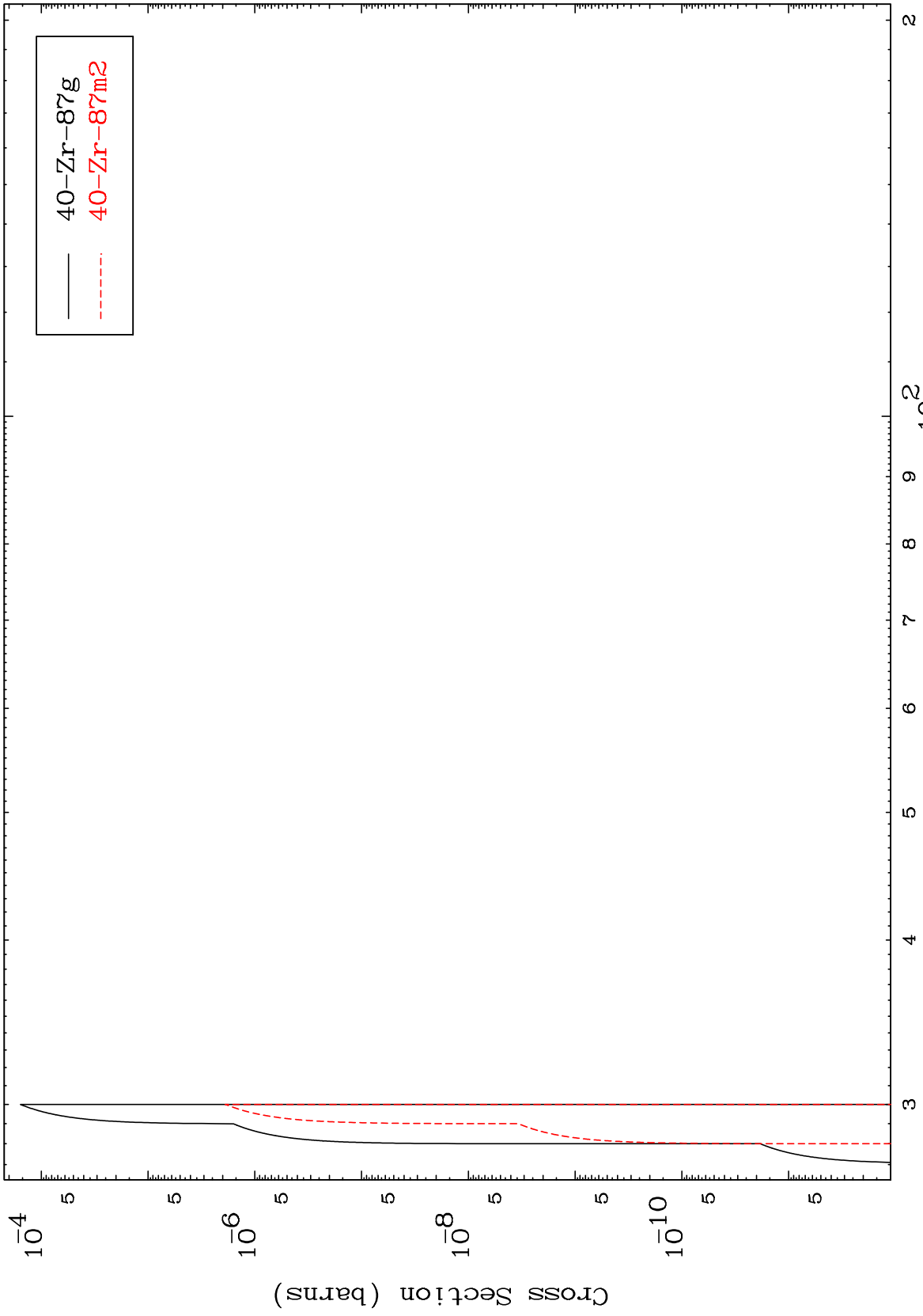
41-Nb-90

MAT 4116

(n,3n) p

41-Nb-90

Radionuclide Production Cross Section



118

Incident Energy (MeV)

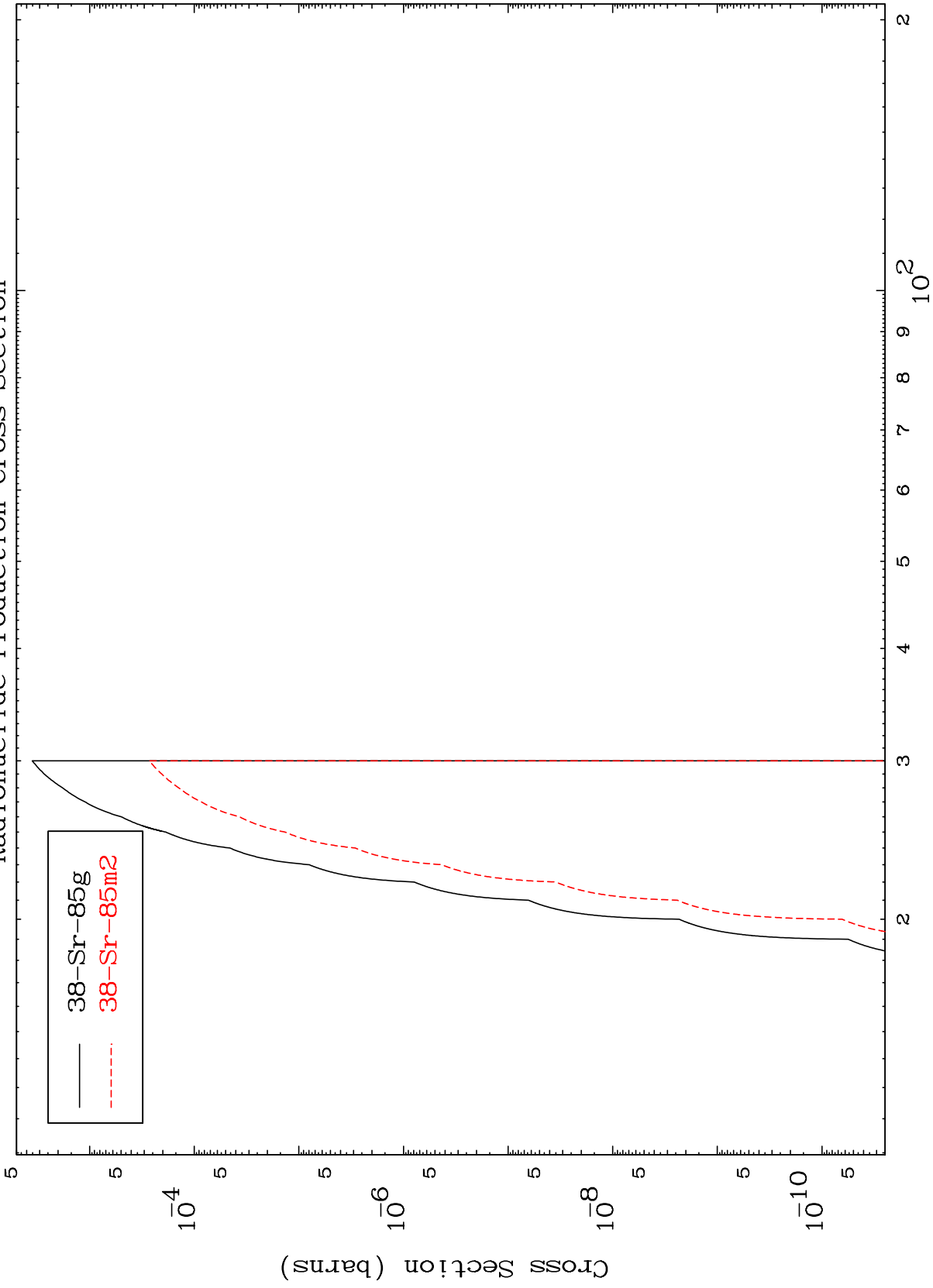
41-Nb-90

MAT 4116

(n,n') p α

41-Nb-90

Radionuclide Production Cross Section



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

119

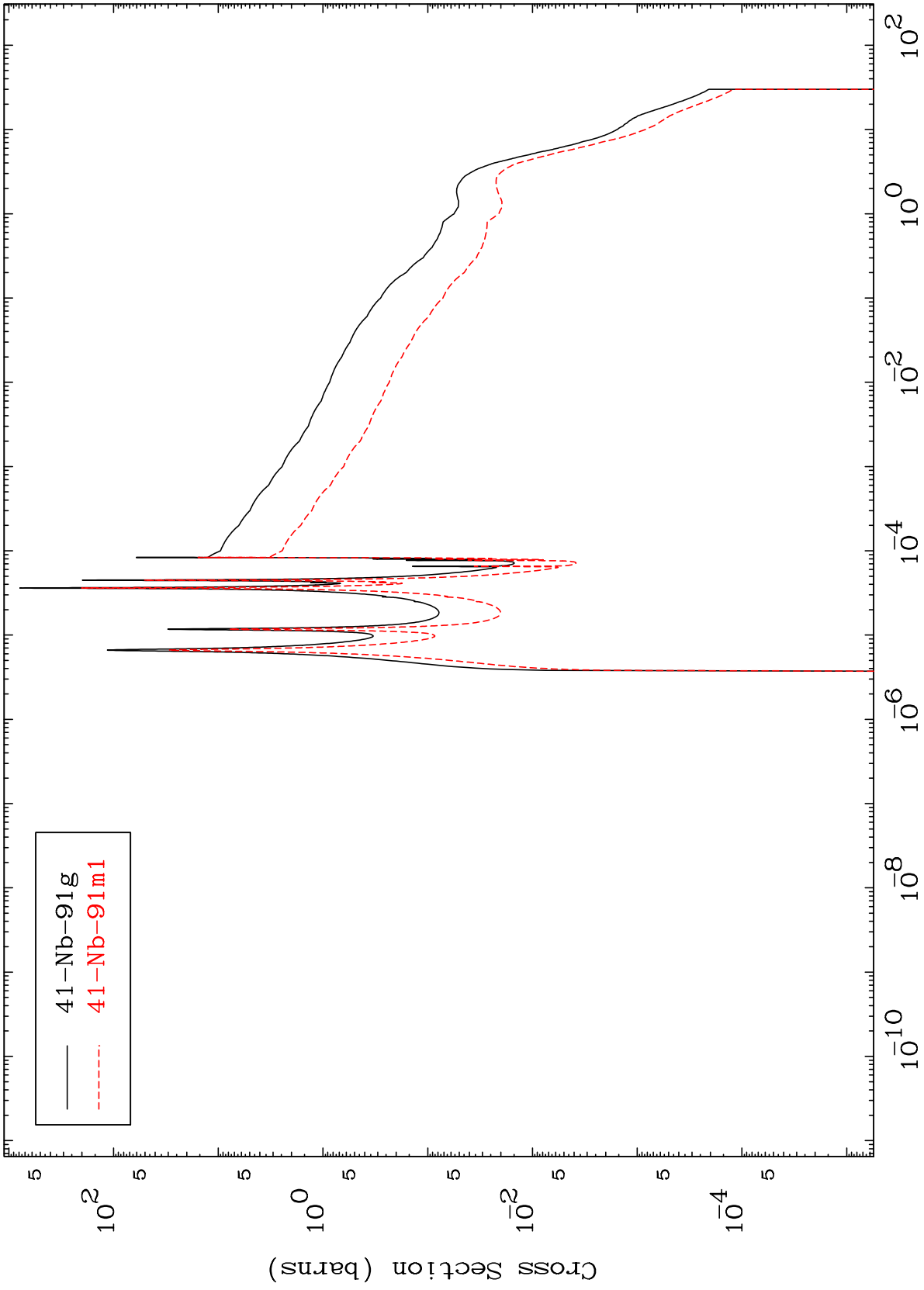
Incident Energy (MeV)

41-Nb-90

MAT 4116

41-Nb-90

Radionuclide Production Cross Section



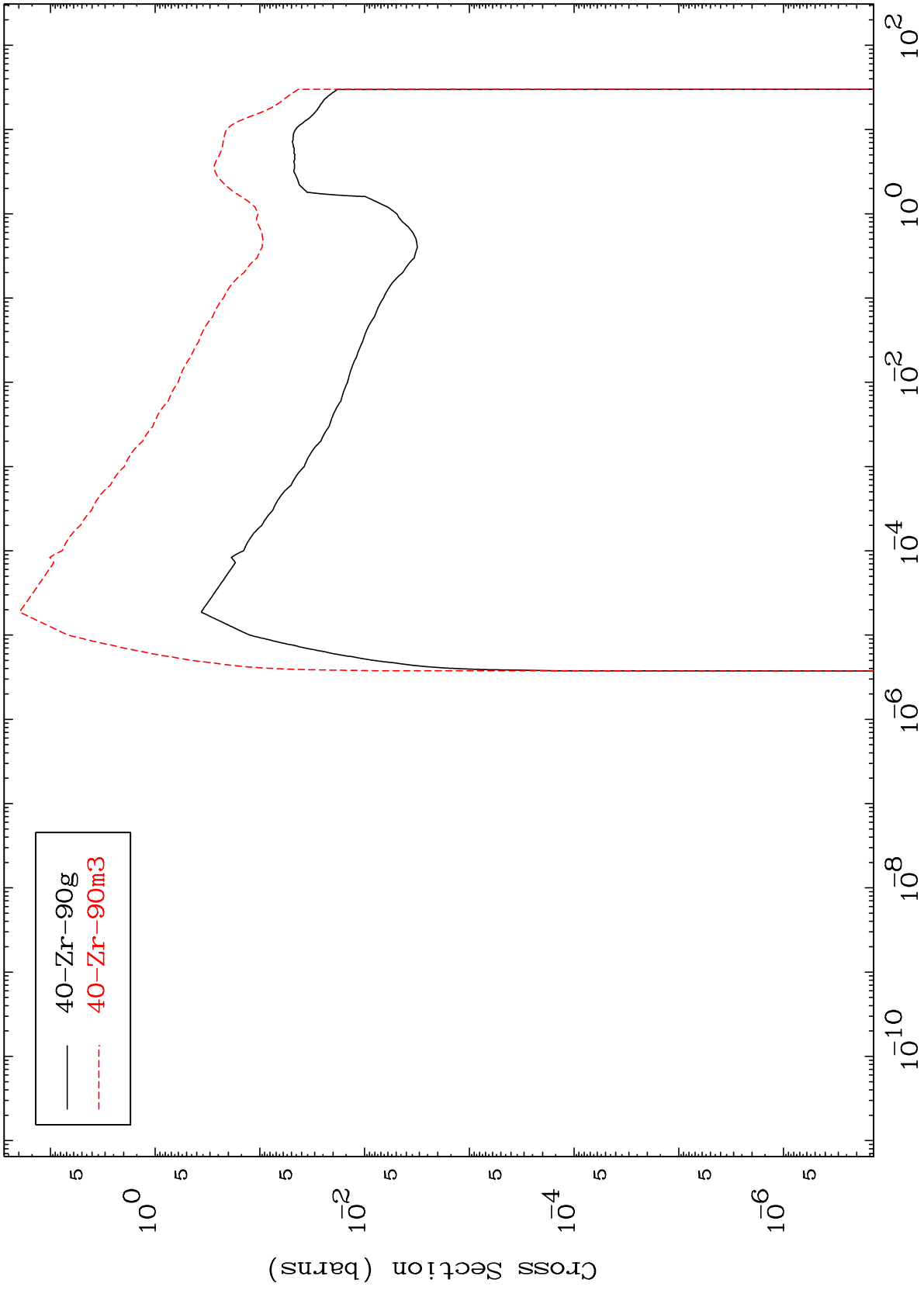
120

41-Nb-90

MAT 4116

41-Nb-90

Radionuclide Production Cross Section



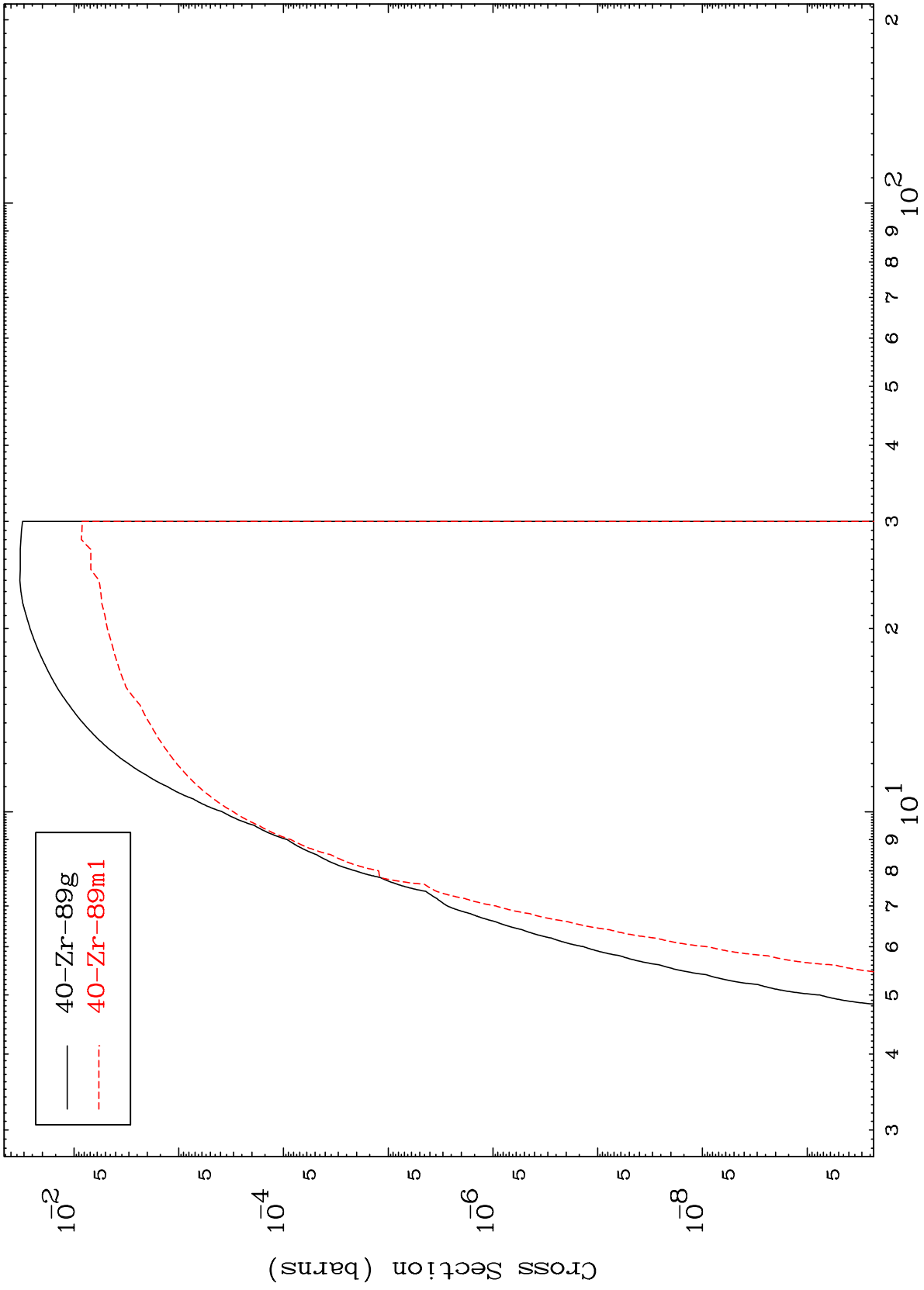
121

41-Nb-90

MAT 4116

Radionuclide Production Cross Section
(n,d)

41-Nb-90



122

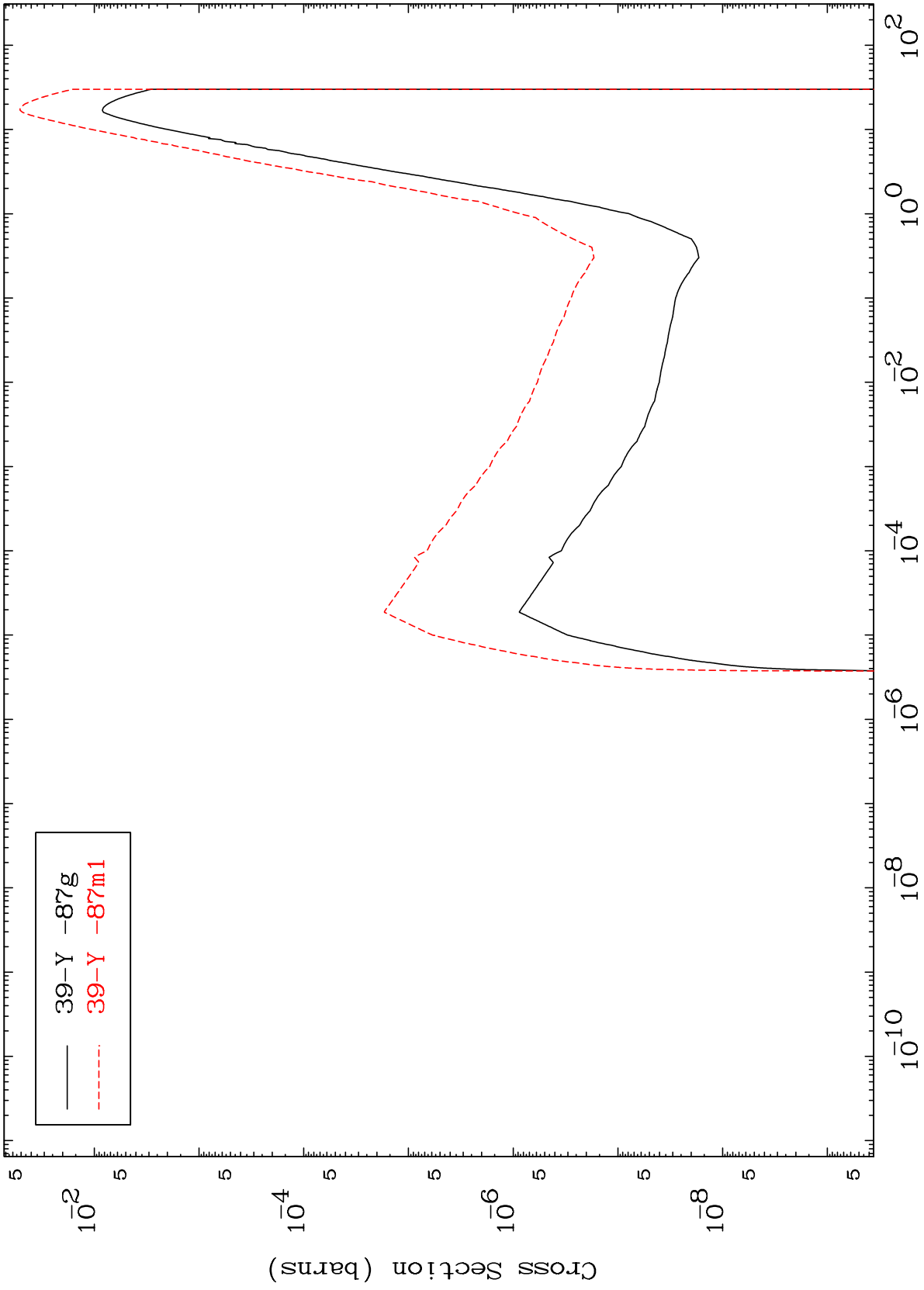
Incident Energy (MeV)

41-Nb-90

MAT 4116

Radionuclide Production Cross Section
(n, α)

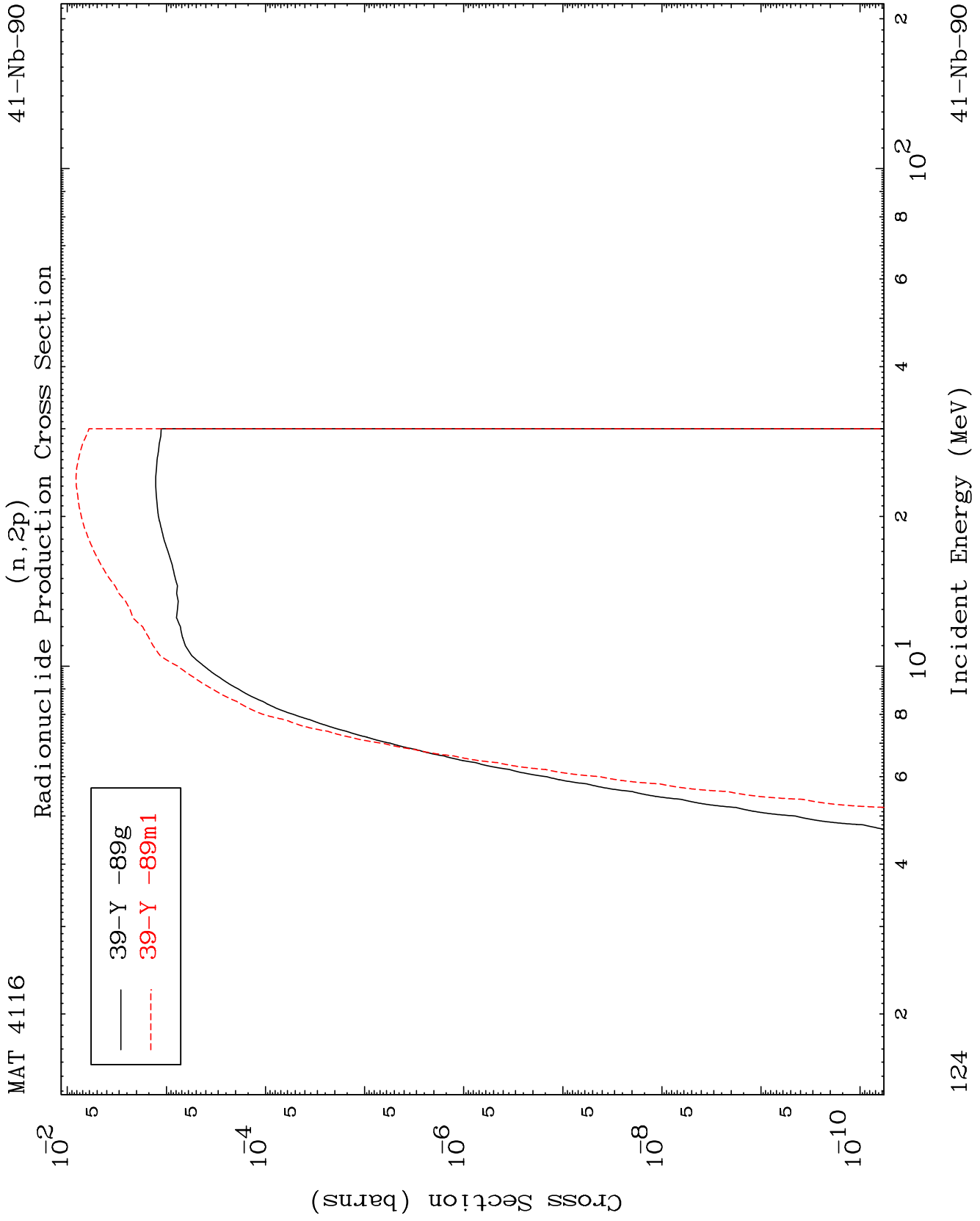
41-Nb-90



123

Incident Energy (MeV)

41-Nb-90

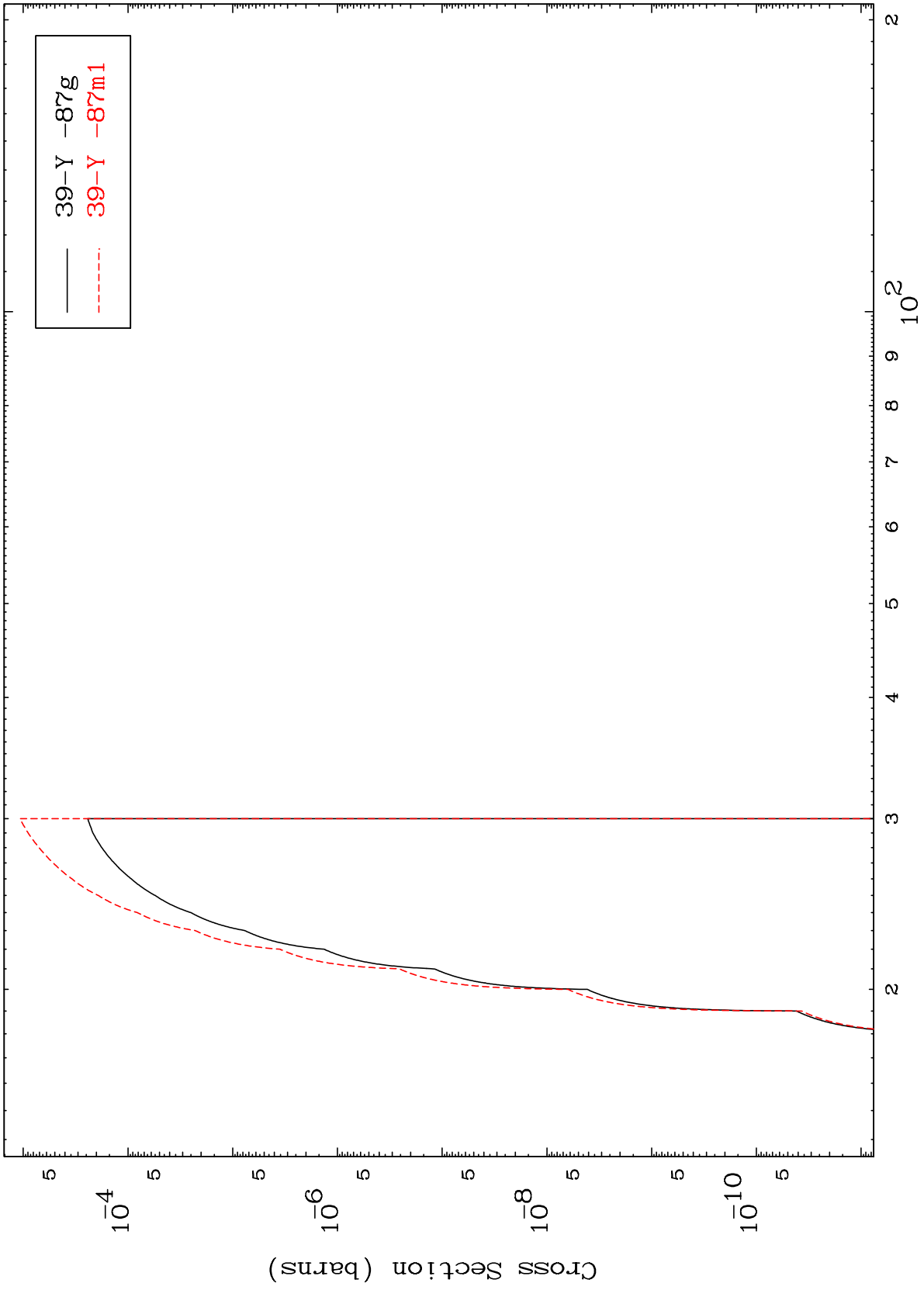


MAT 4116

(n,p) t

41-Nb-90

Radionuclide Production Cross Section



125

Incident Energy (MeV)

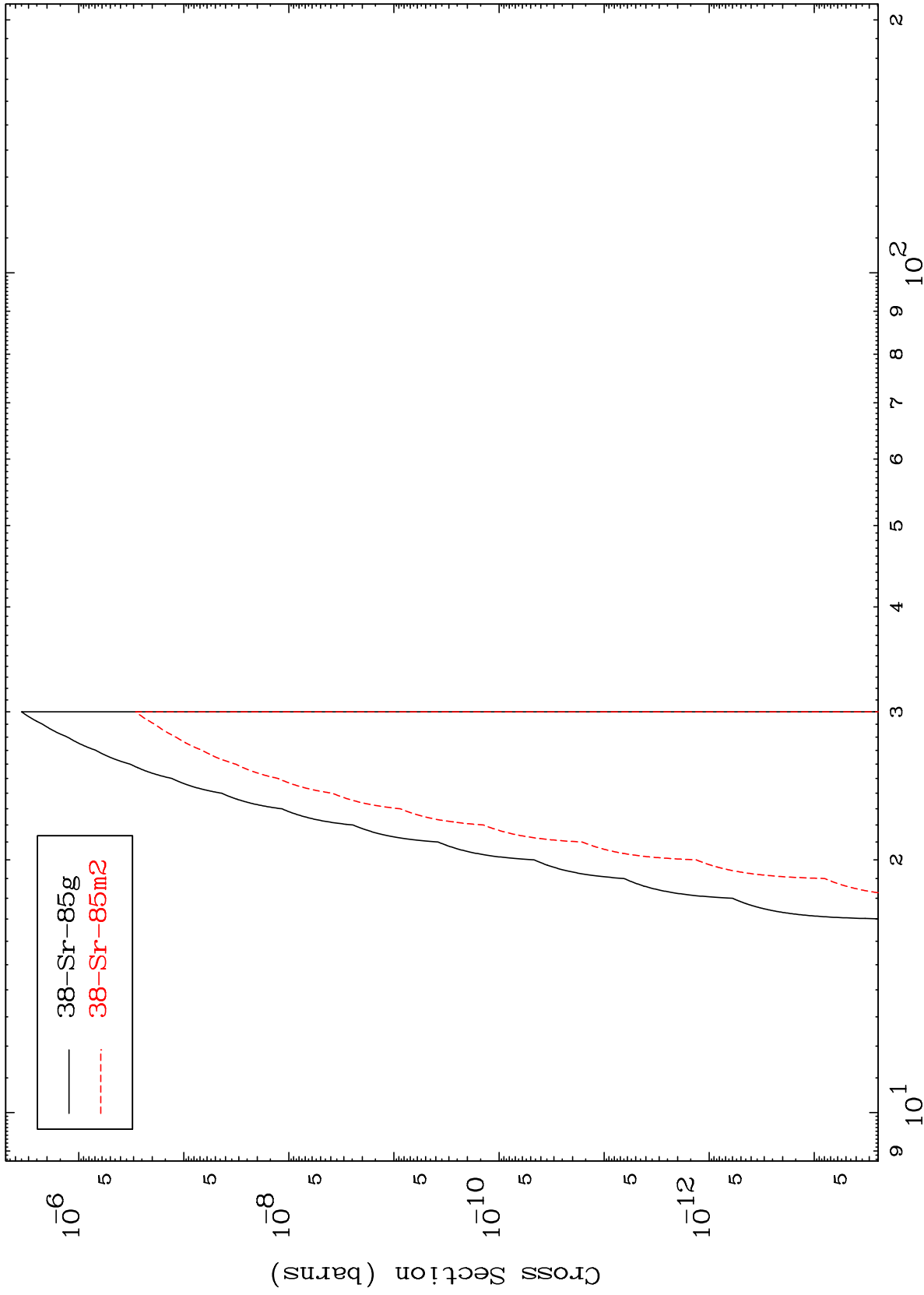
41-Nb-90

MAT 4116

(n,d) α

41-Nb-90

Radionuclide Production Cross Section



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

126

Incident Energy (MeV)

41-Nb-90