

Program EVALPLOT
(Version 2018-1)

by

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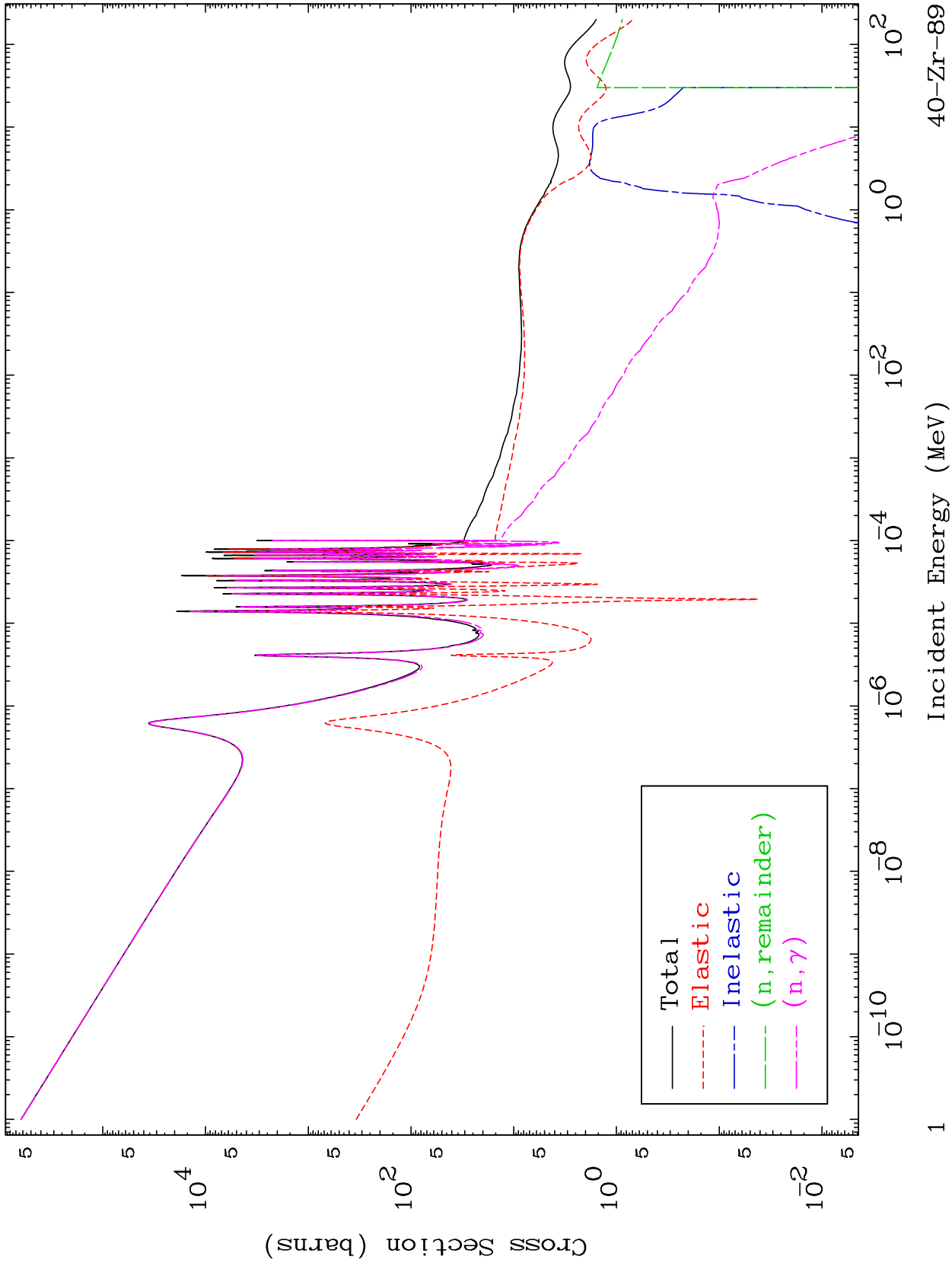
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4022

Major
293 Kelvin Cross Sections

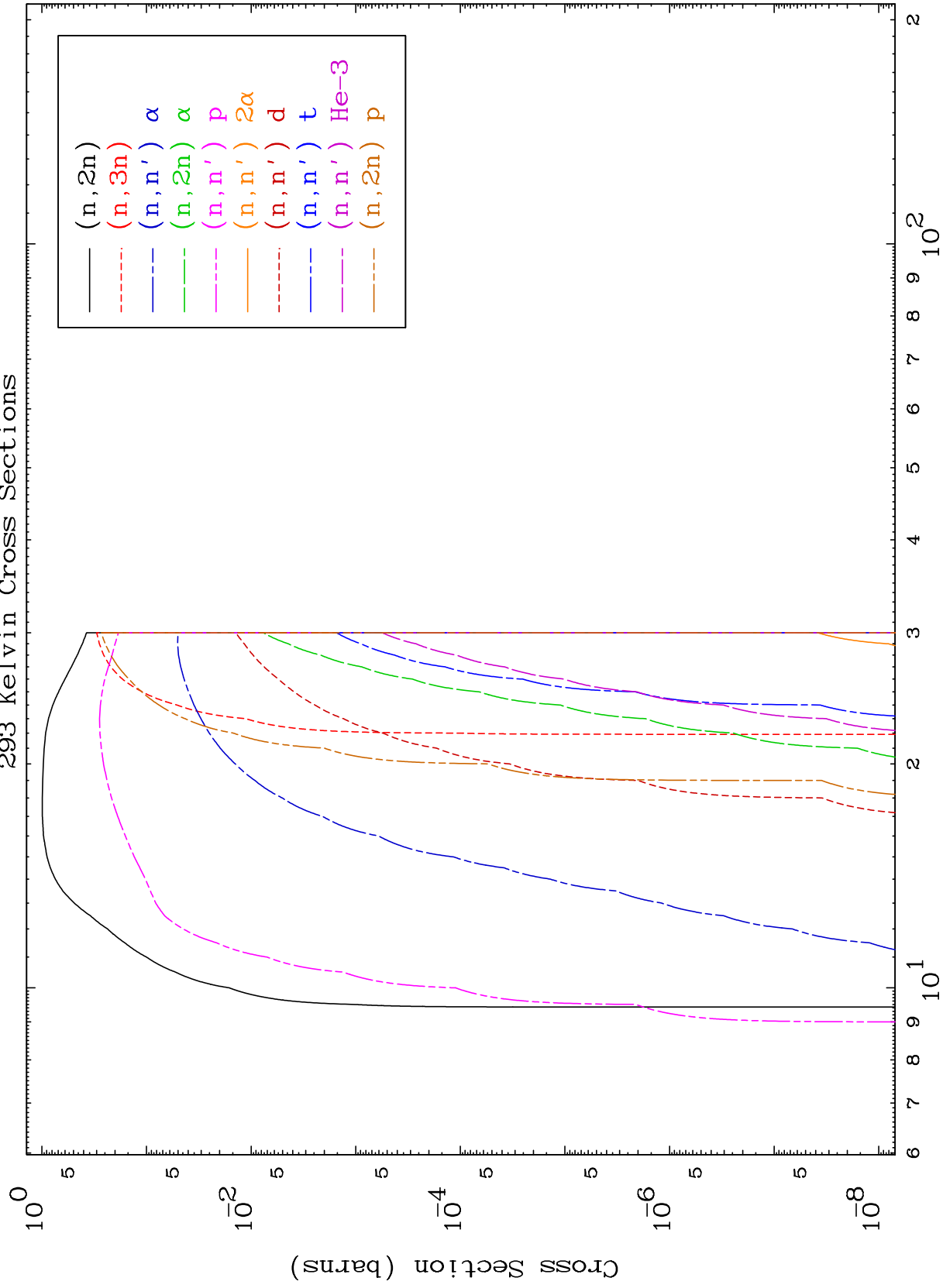
40-Zr-89



MAT 4022

Neutron Production
293 Kelvin Cross Sections

40-Zr-89



2

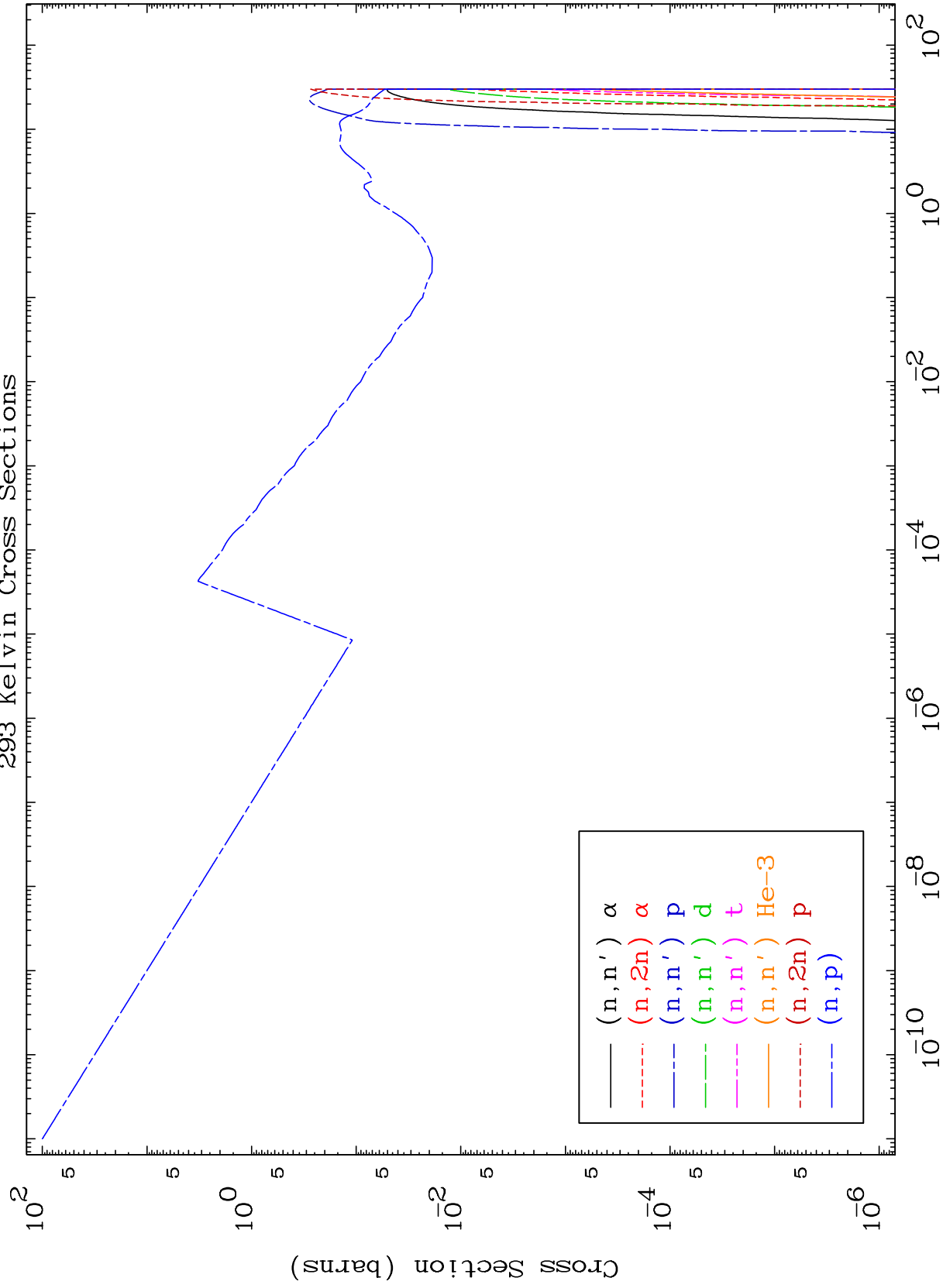
Incident Energy (MeV)

40-Zr-89

MAT 4022

293 Kelvin Cross Sections

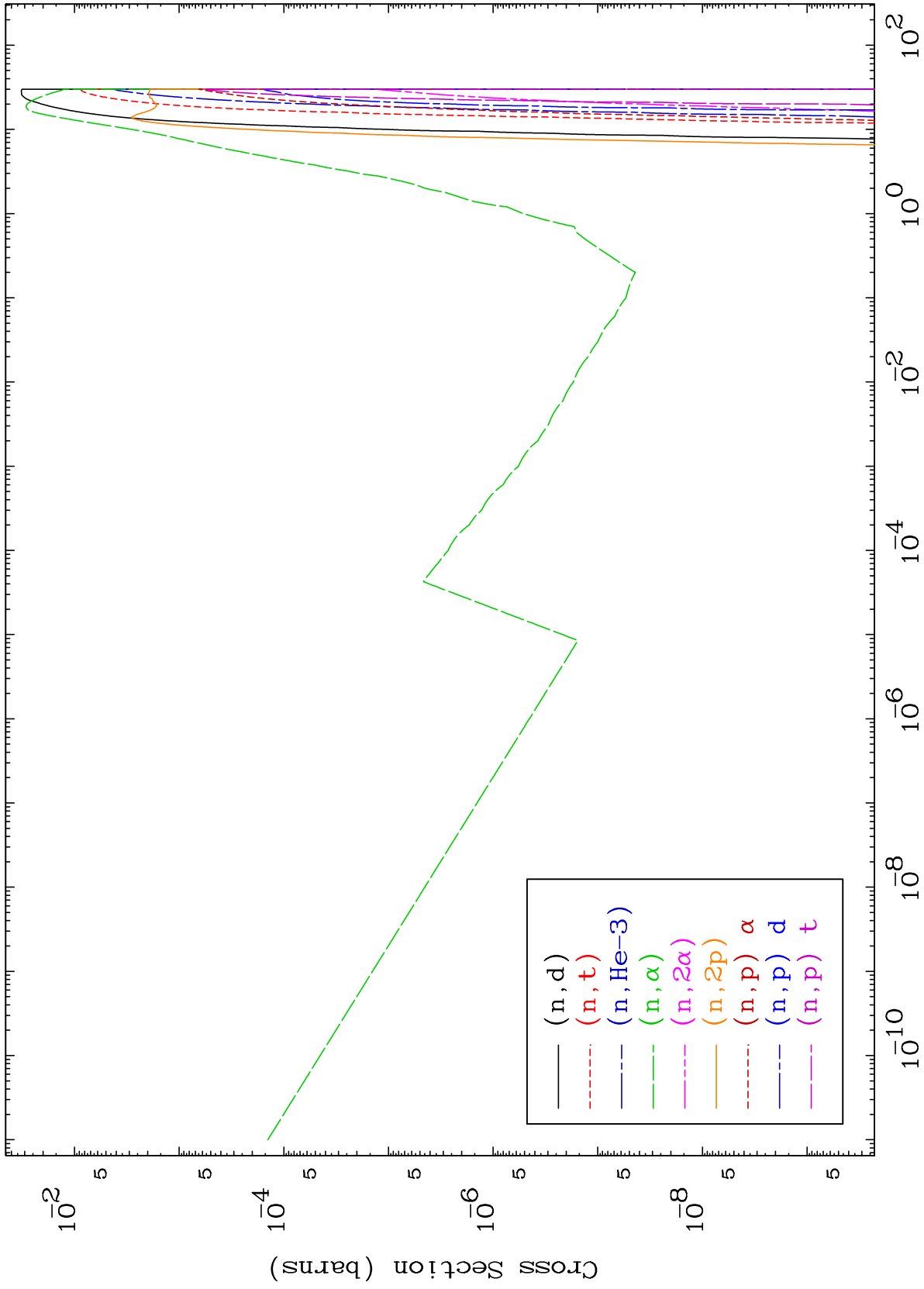
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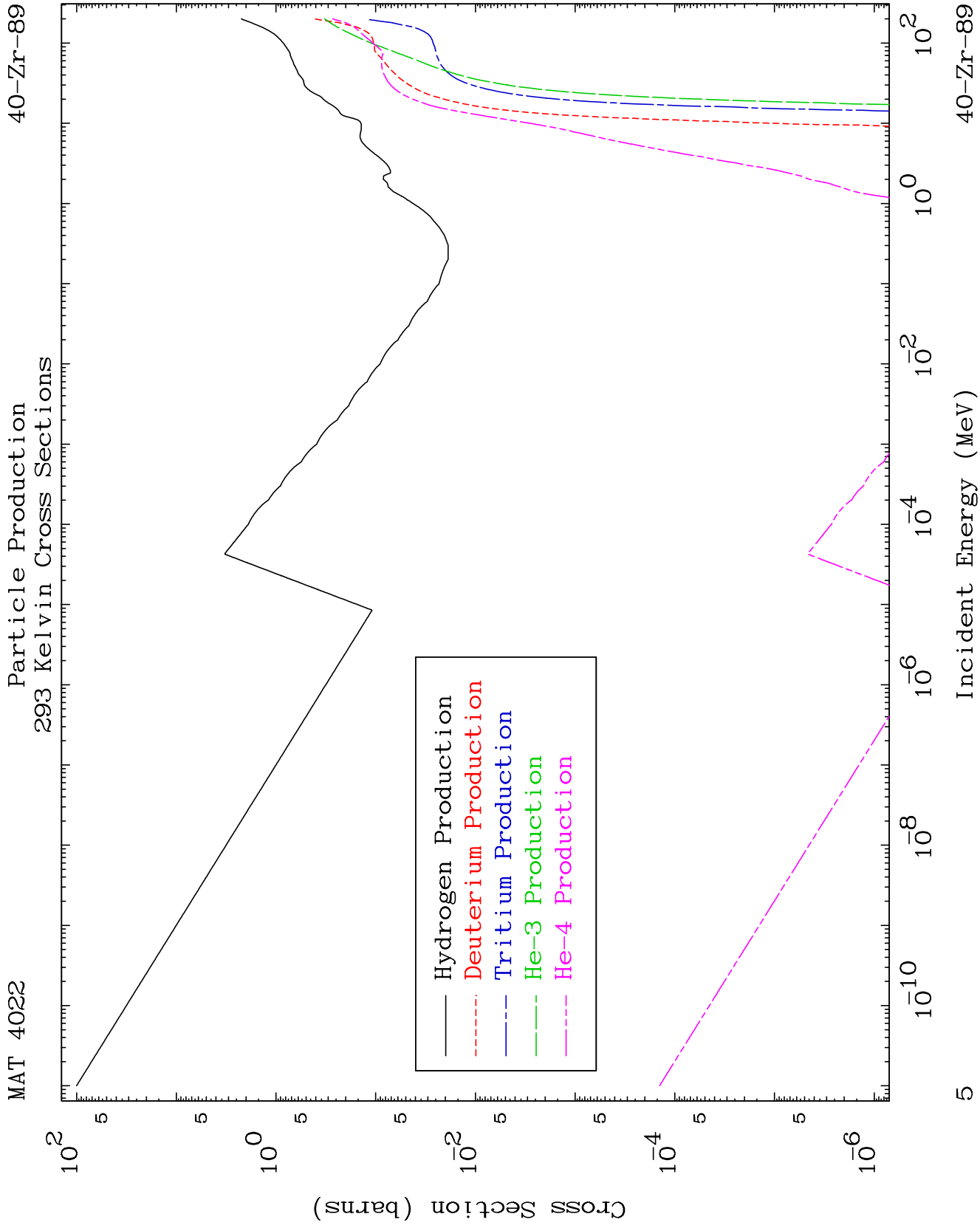


MAT 4022

Charged Particle
293 Kelvin Cross Sections

40-Zr-89



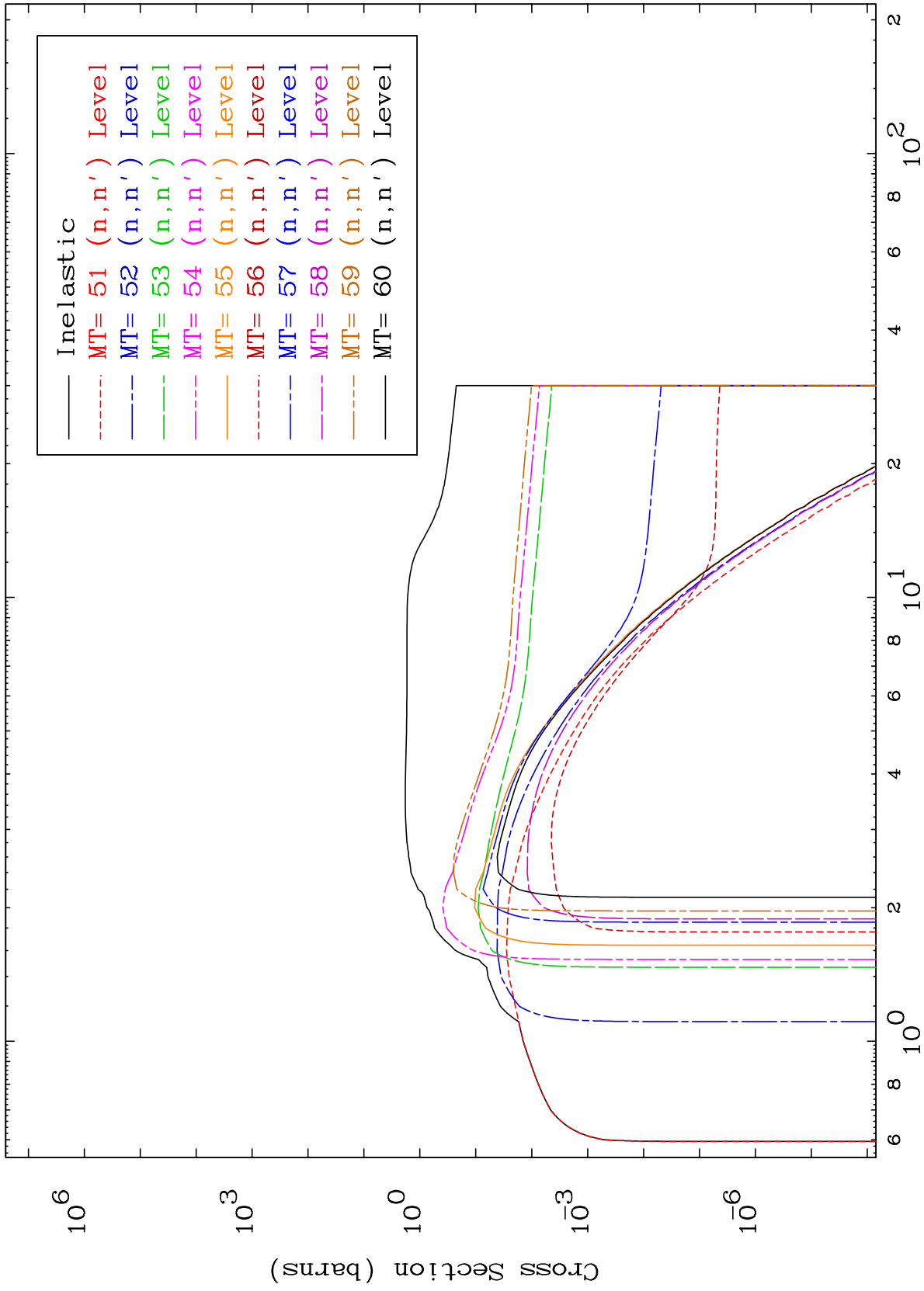


MAT 4022

(n,n') Level

40-Zr-89

293 Kelvin Cross Sections



6

Incident Energy (MeV)

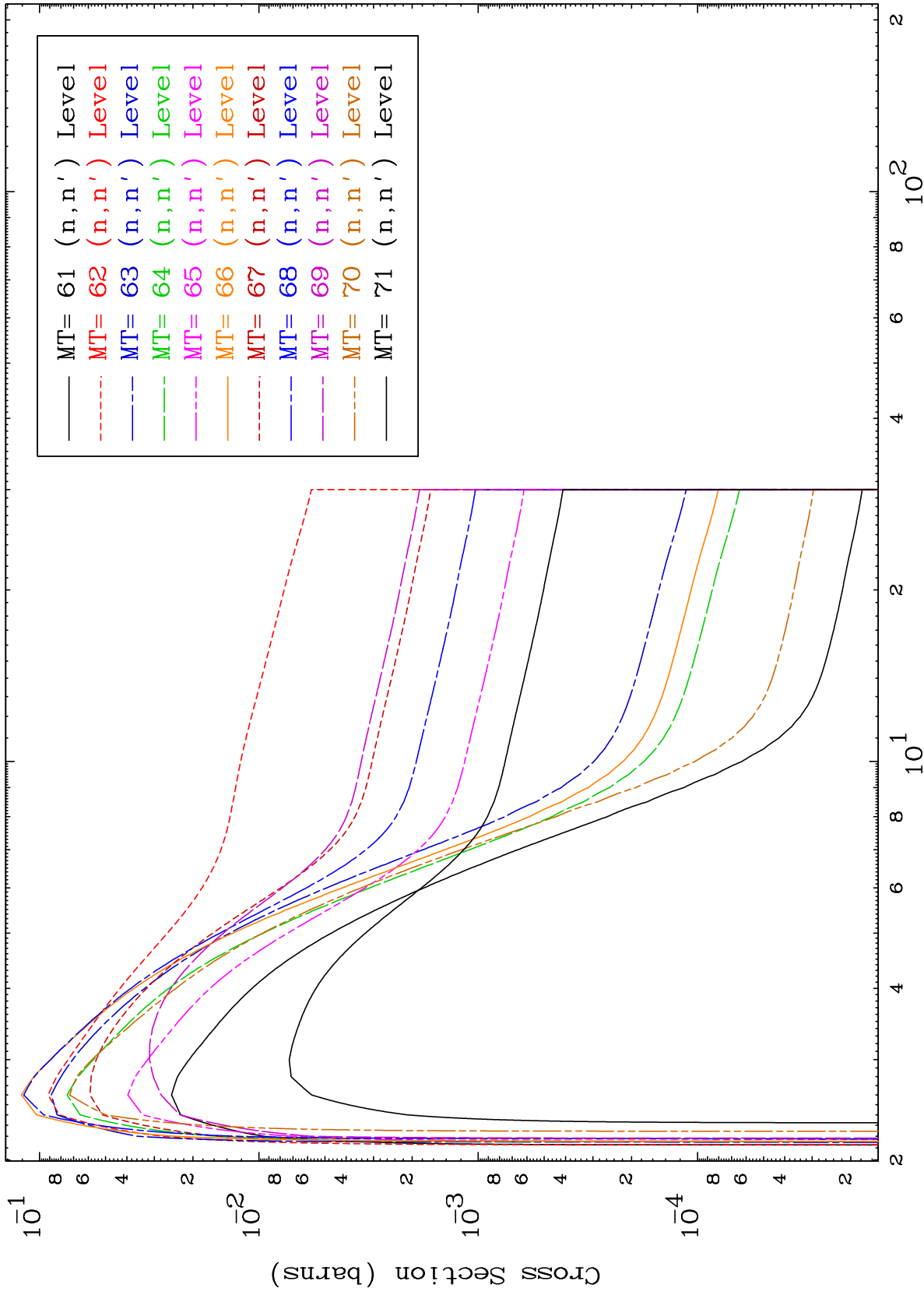
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MAT 4022

(n,n') Level

293 Kelvin Cross Sections

40-Zr-89



7

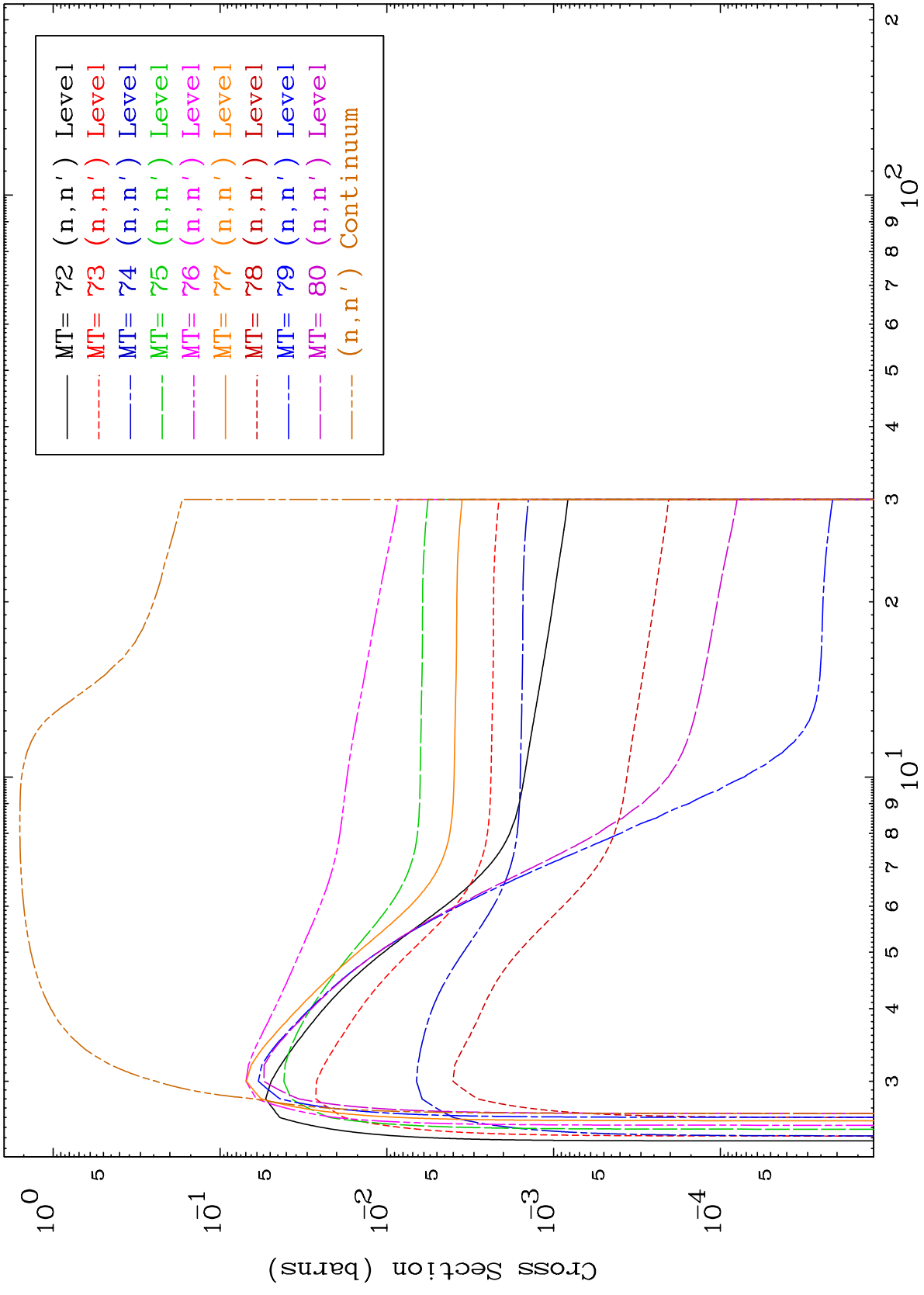
Incident Energy (MeV)

40-Zr-89

MAT 4022

(n,n') Level
293 Kelvin Cross Sections

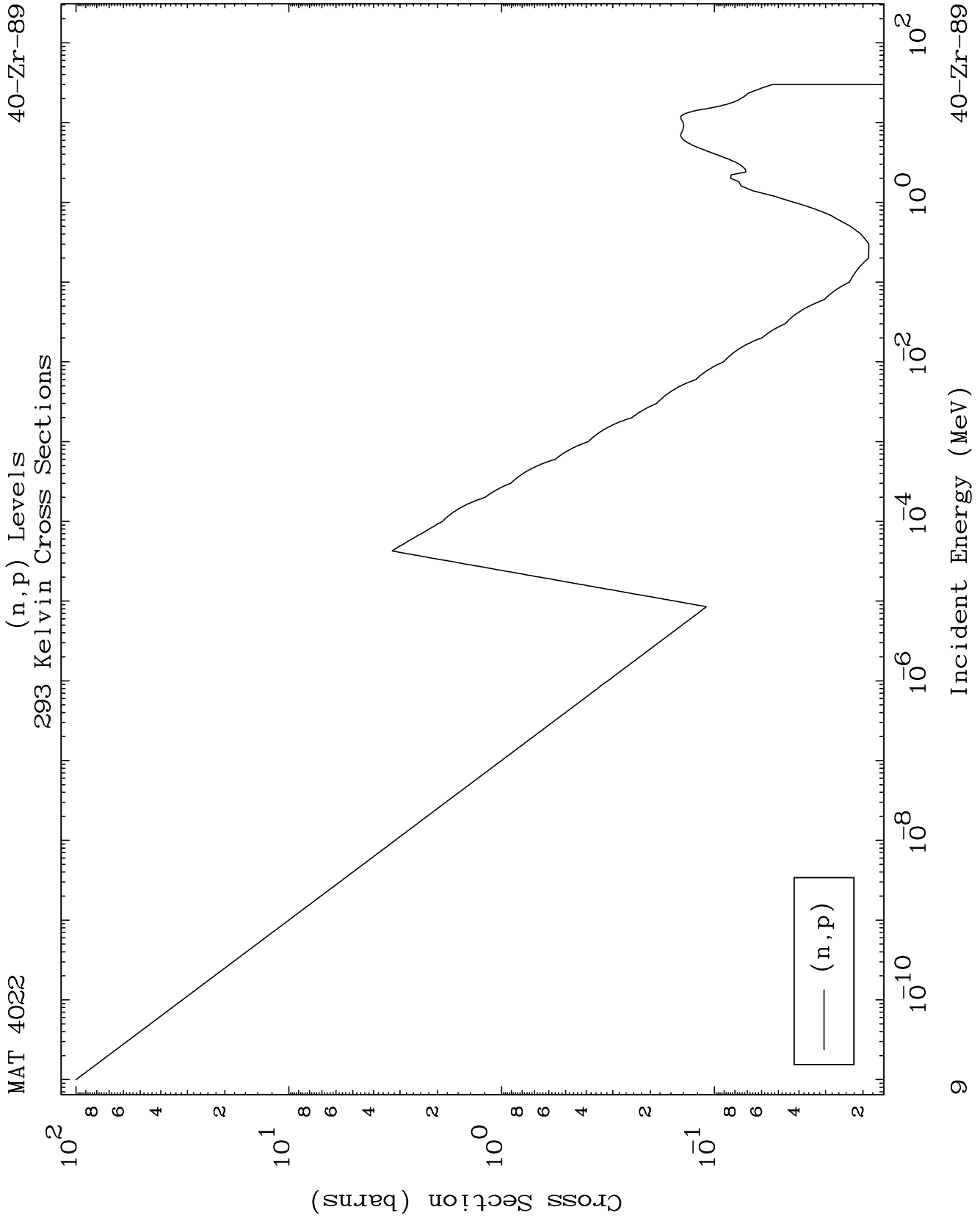
40-Zr-89



8

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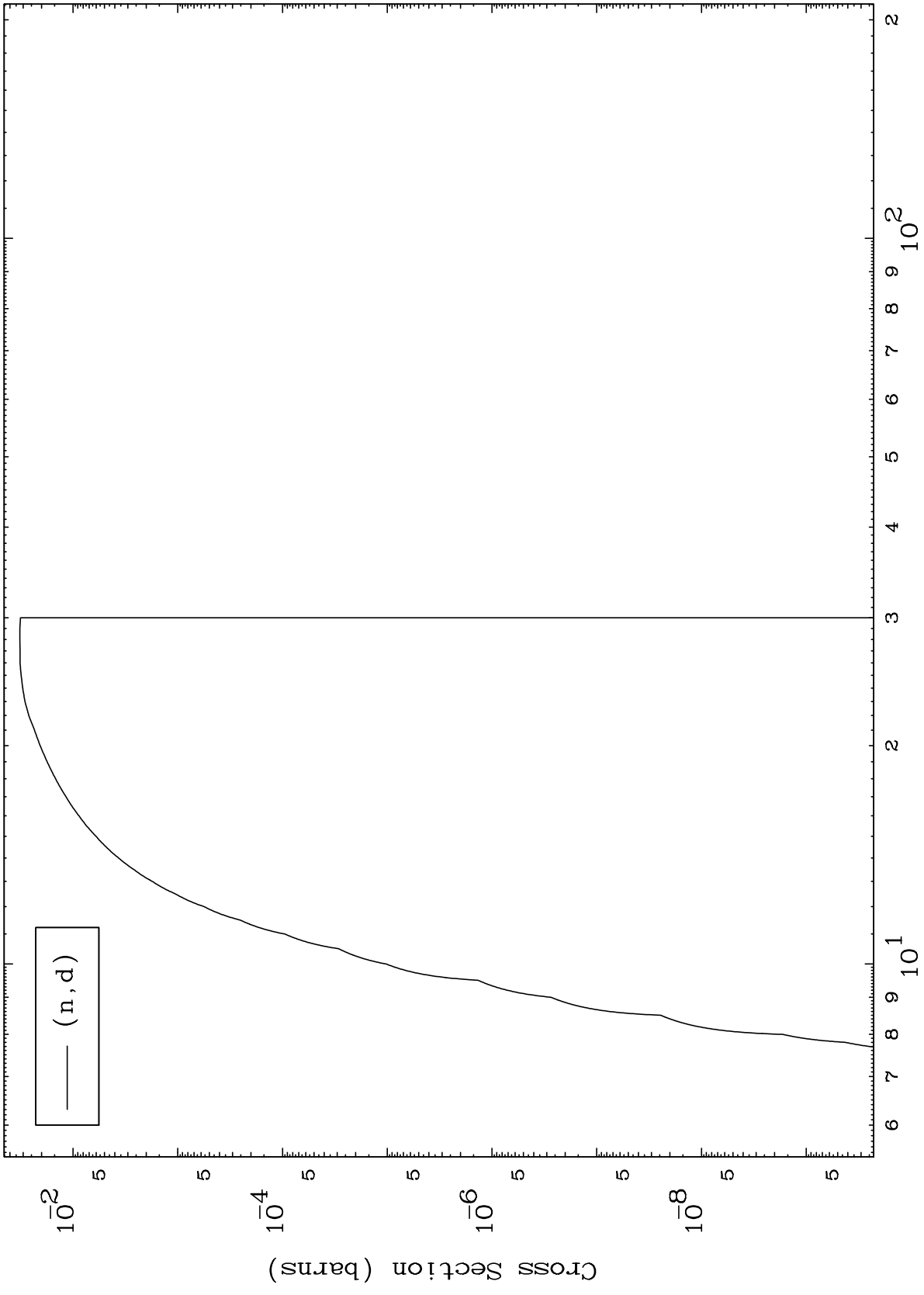
40-Zr-89



MAT 4022

(n,d) Levels
293 Kelvin Cross Sections

40-Zr-89



10

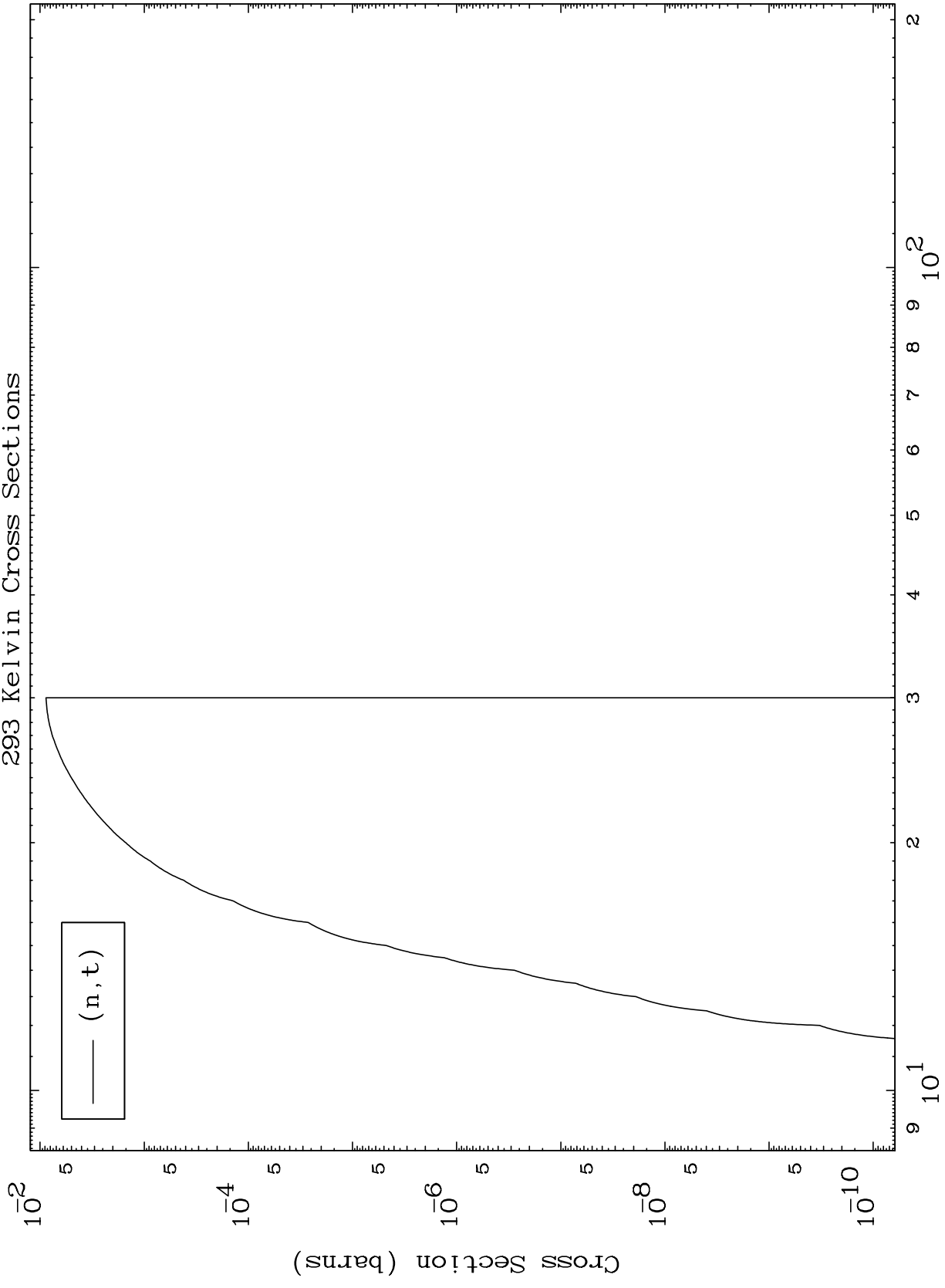
Incident Energy (MeV)

40-Zr-89

MAT 4022

(n,t) Levels
293 Kelvin Cross Sections

40-Zr-89



11

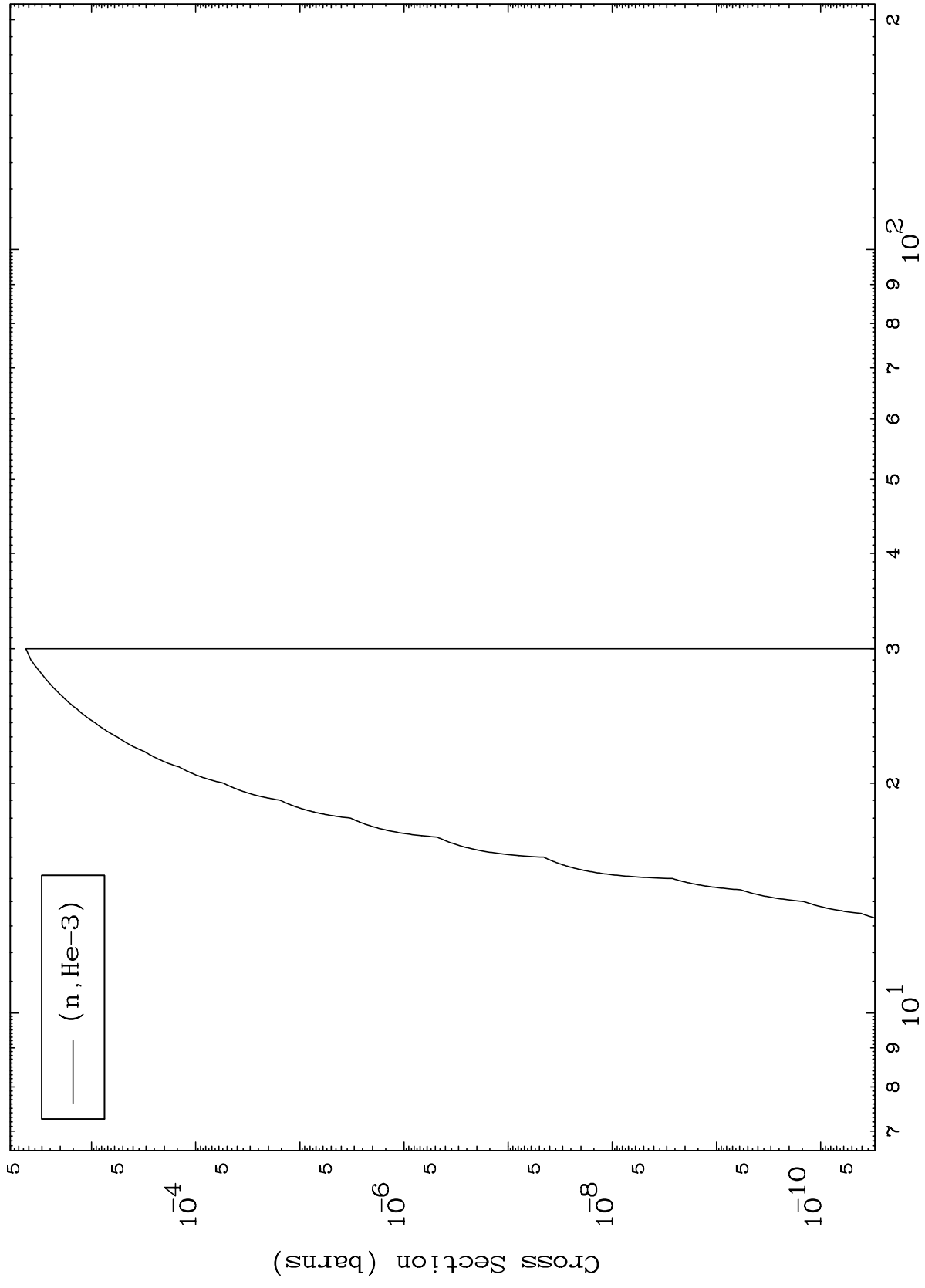
Incident Energy (MeV)

40-Zr-89

MAT 4022

(n,He3) Levels
293 Kelvin Cross Sections

40-Zr-89



12

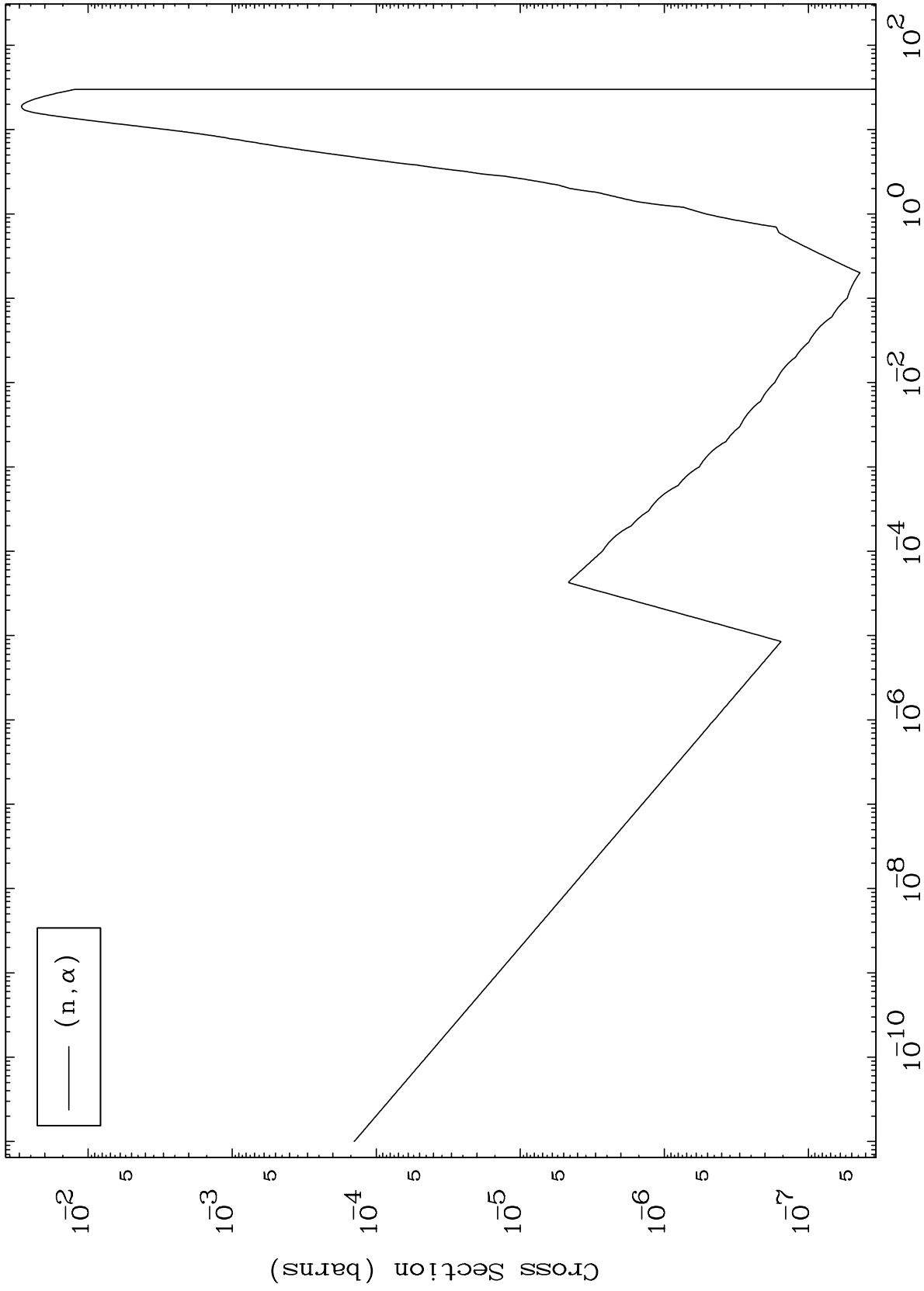
Incident Energy (MeV)

40-Zr-89

MAT 4022

(n,α) Levels
293 Kelvin Cross Sections

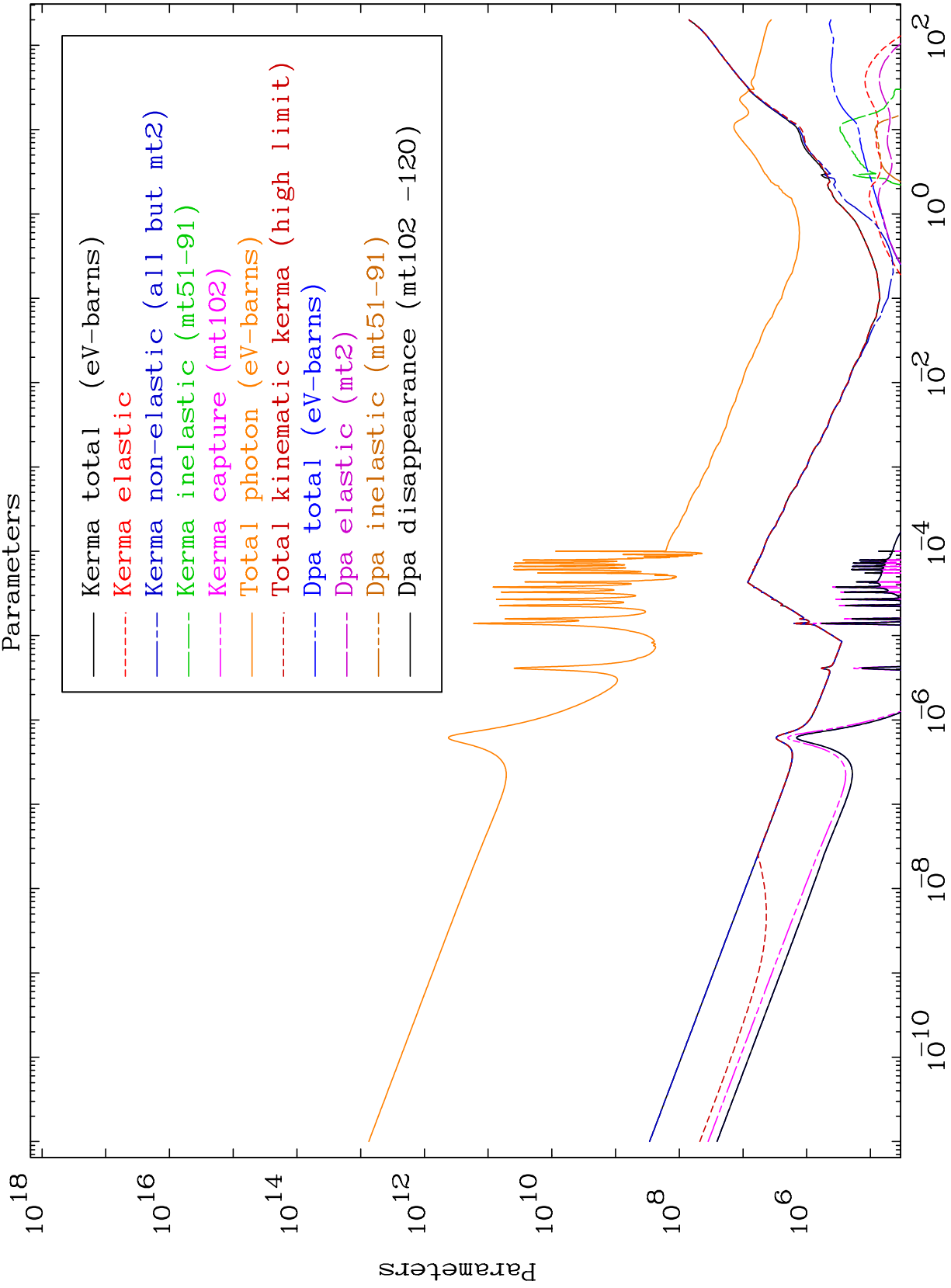
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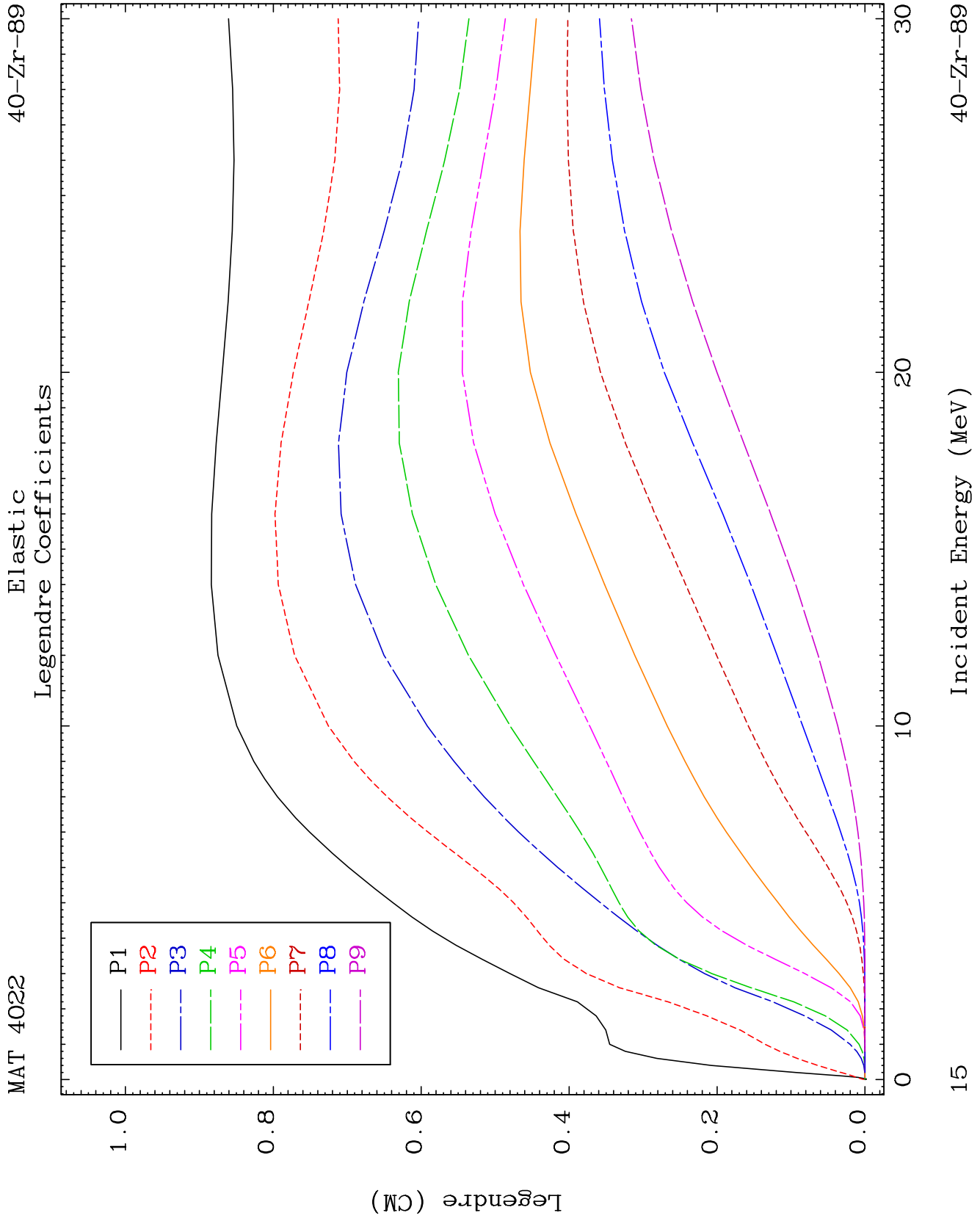


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Incident Energy (MeV)

40-Zr-89

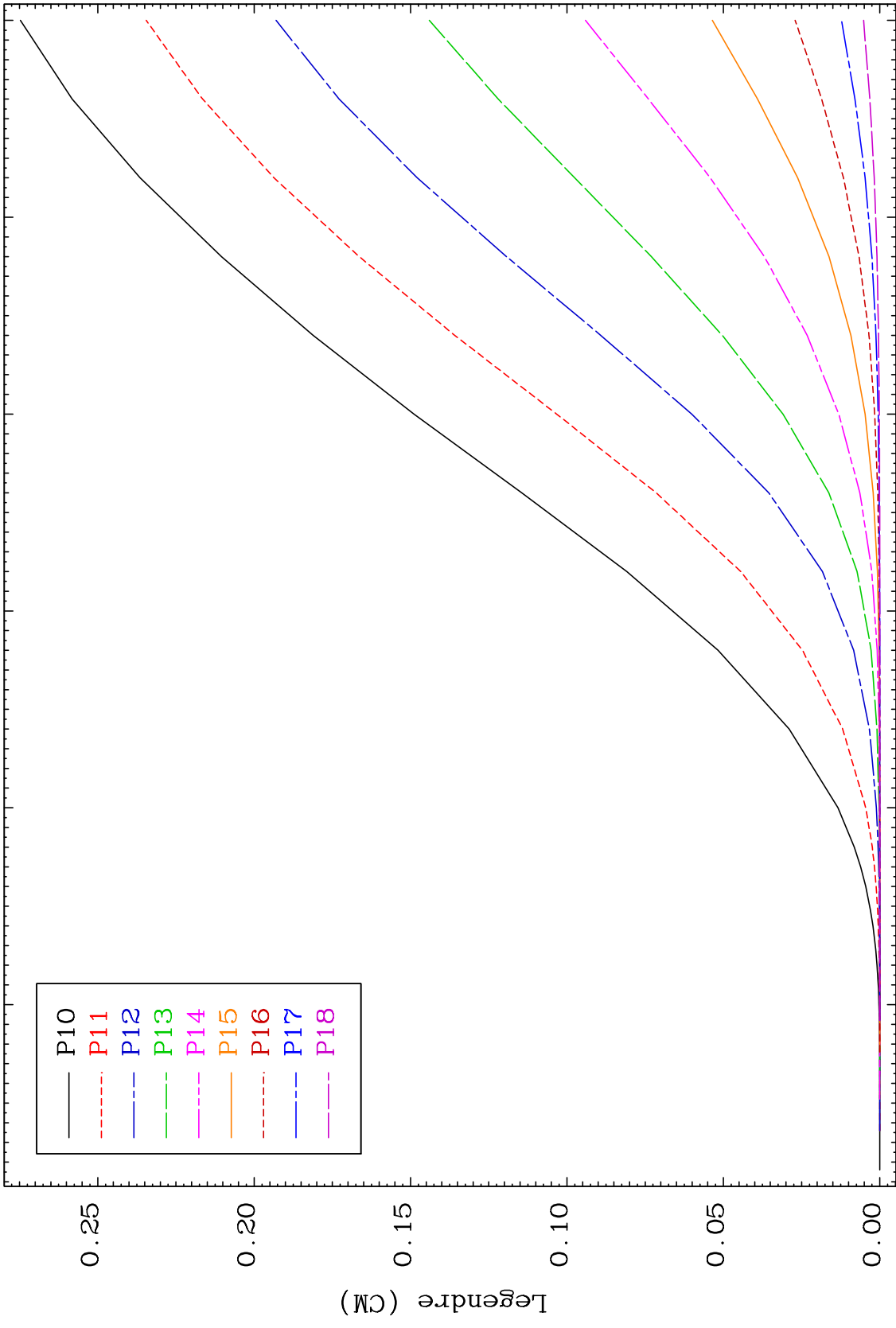




MAT 4022

Elastic Legendre Coefficients

40-Zr-89



16

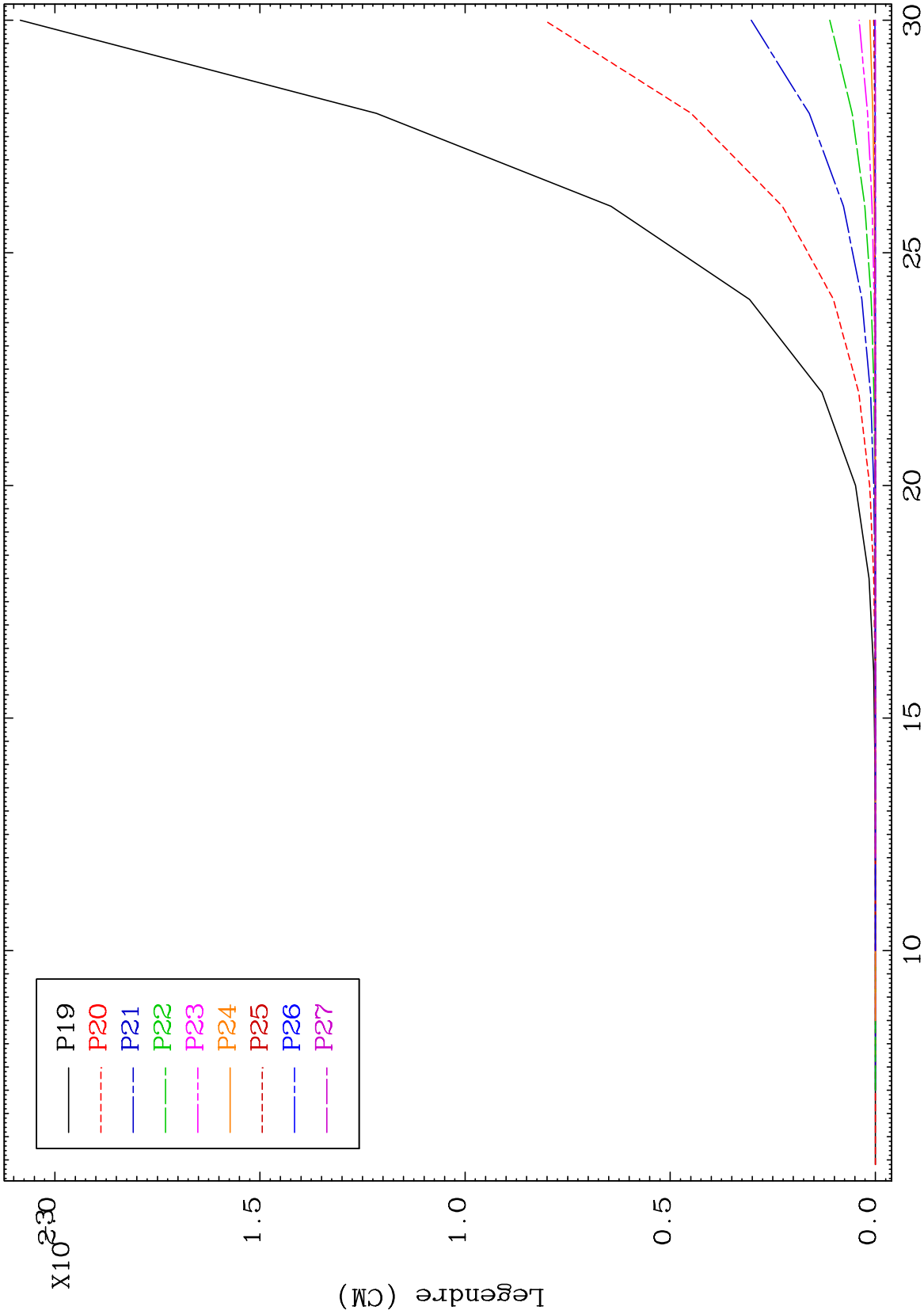
Incident Energy (MeV)

40-Zr-89

MAT 4022

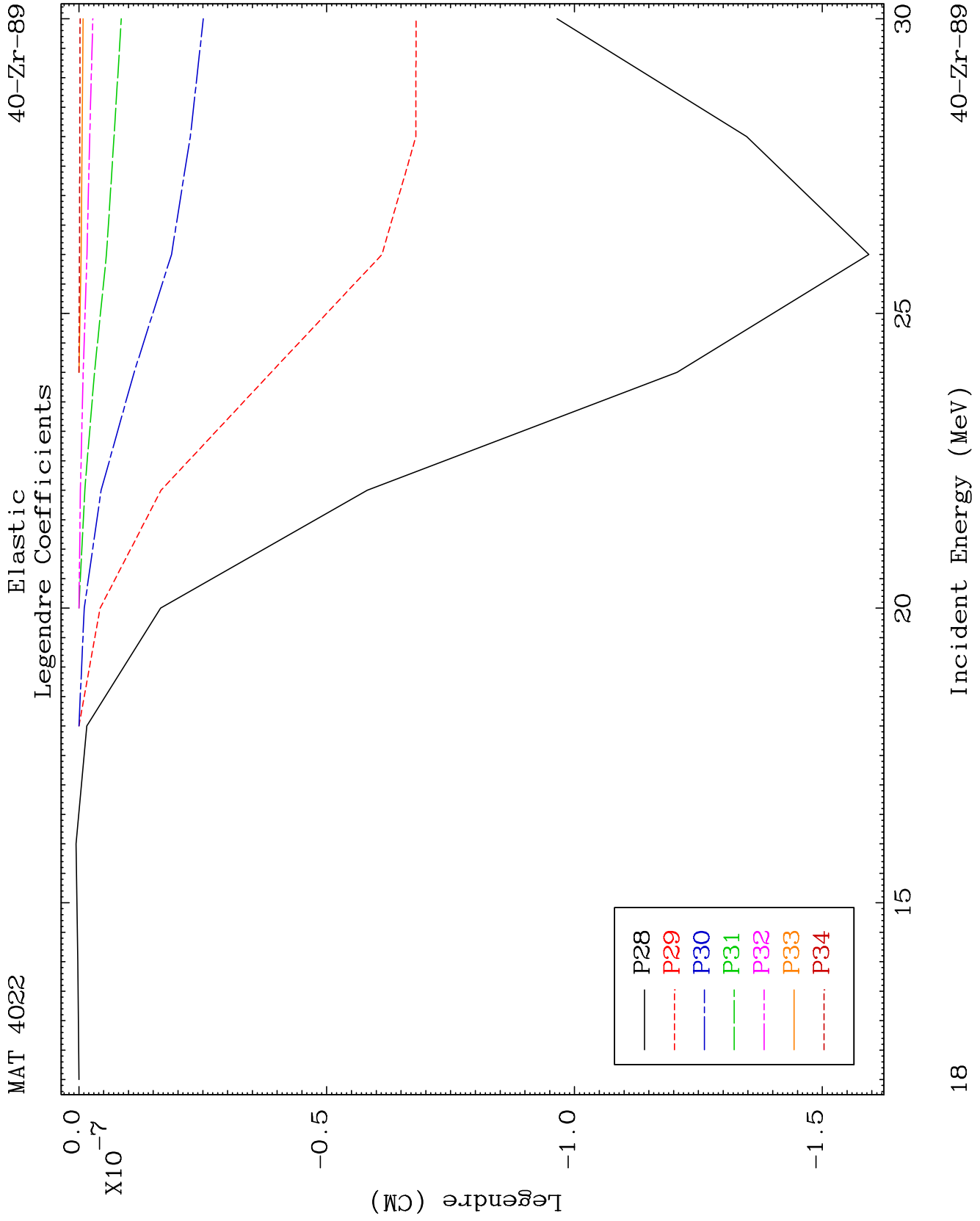
Elastic Legendre Coefficients

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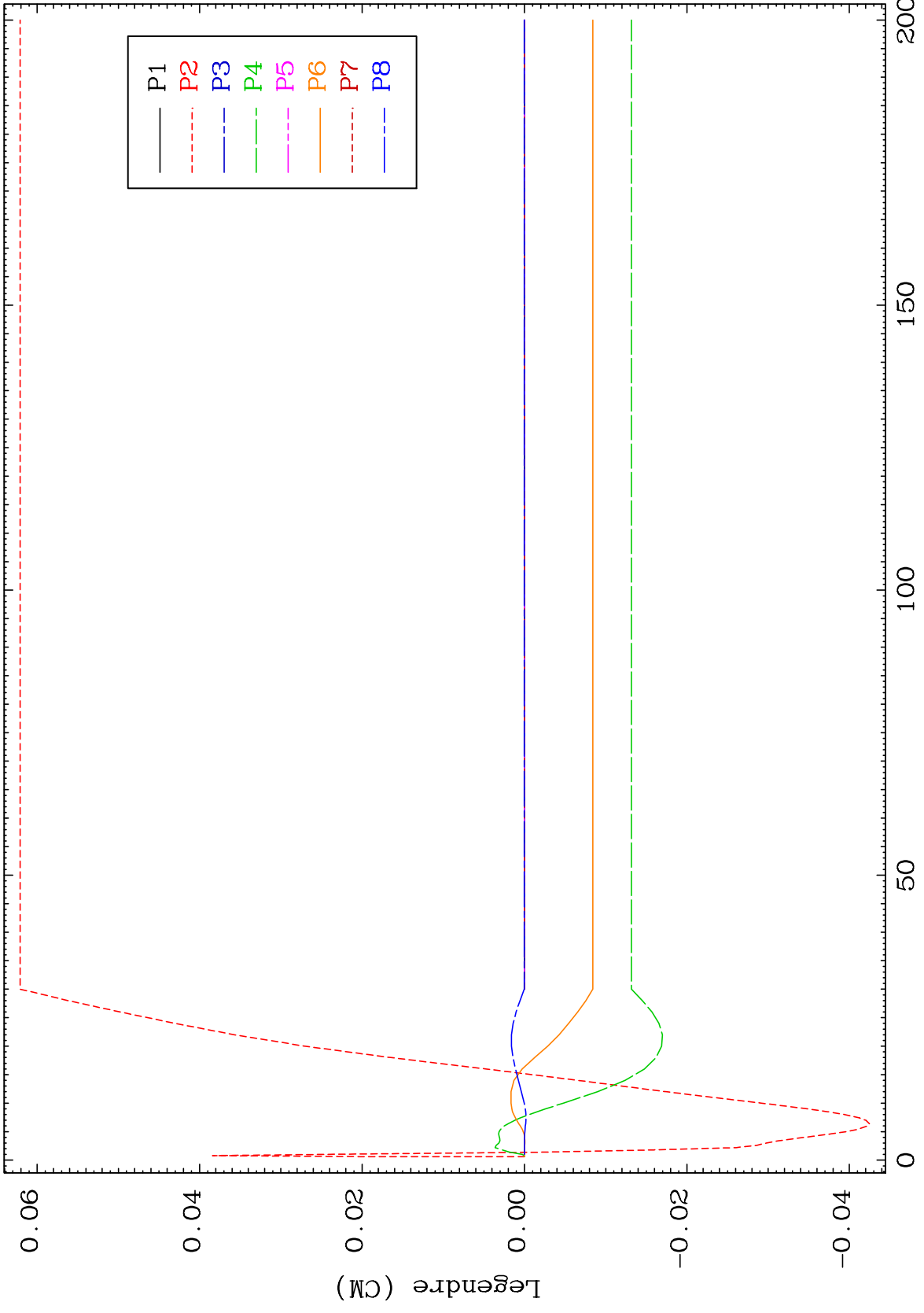


17

40-Zr-89

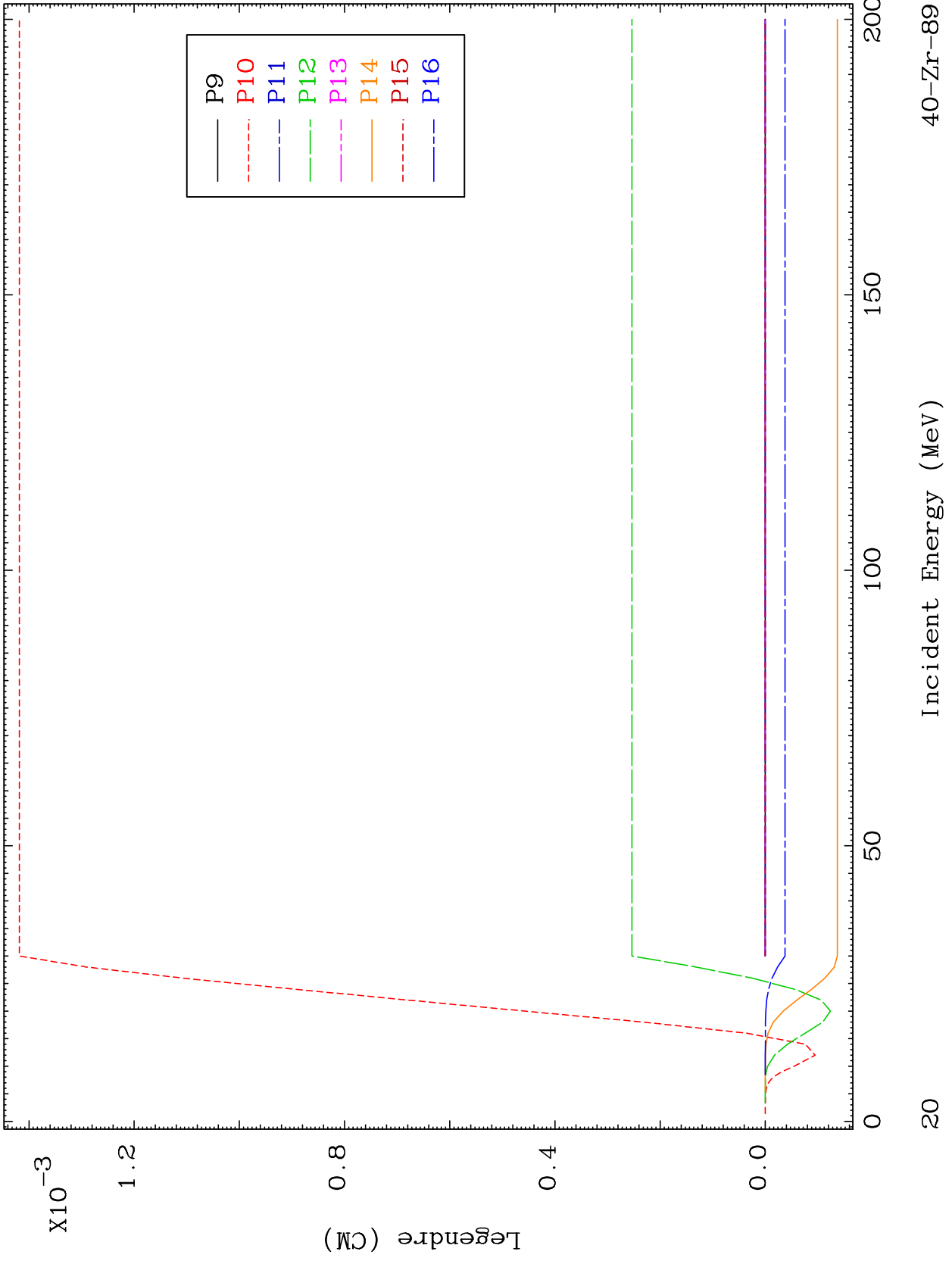


MAT 4022 MT= 51 (n,n') Level Legendre Coefficients 40-Zr-89

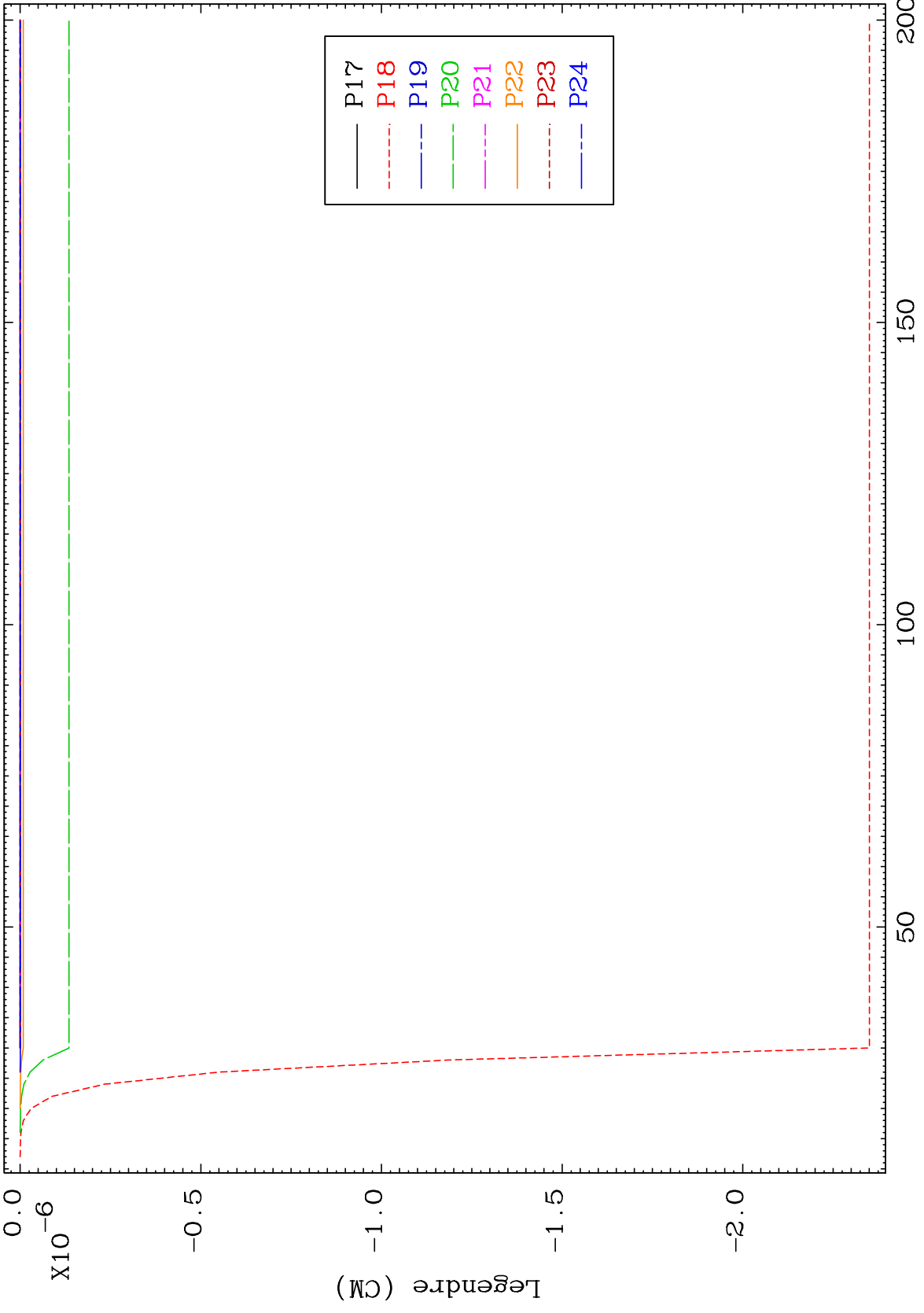


19 Incident Energy (MeV) 40-Zr-89

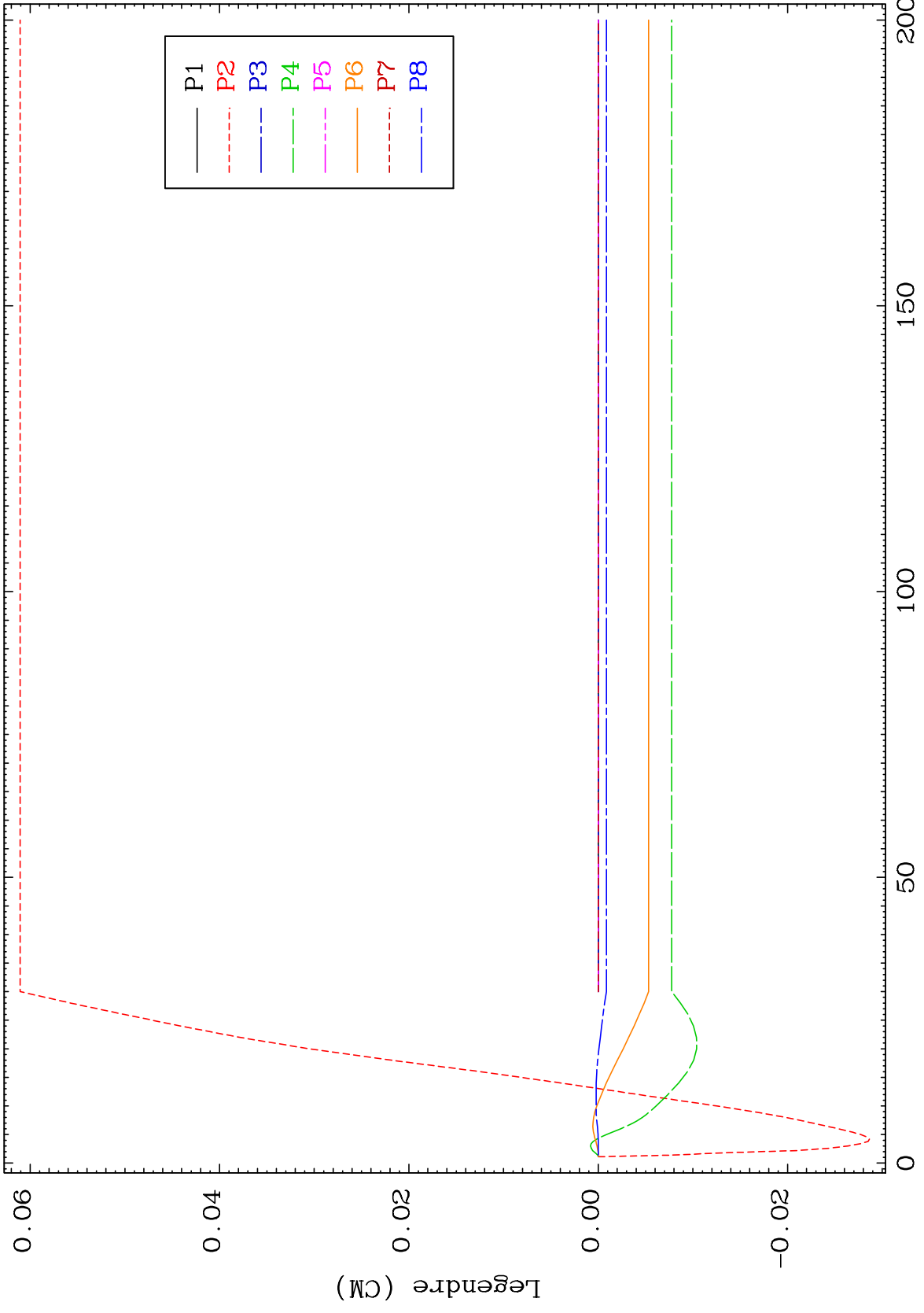
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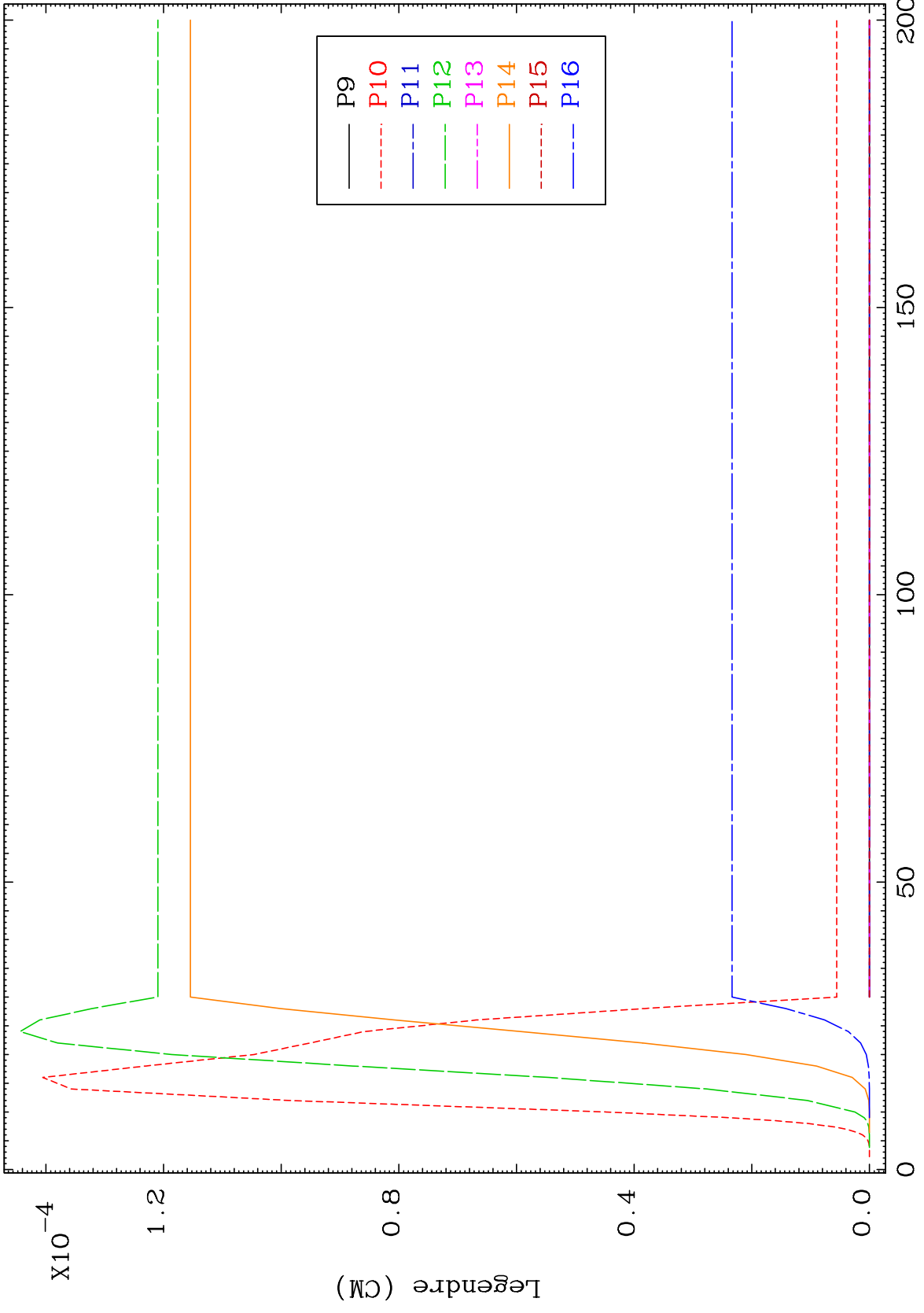
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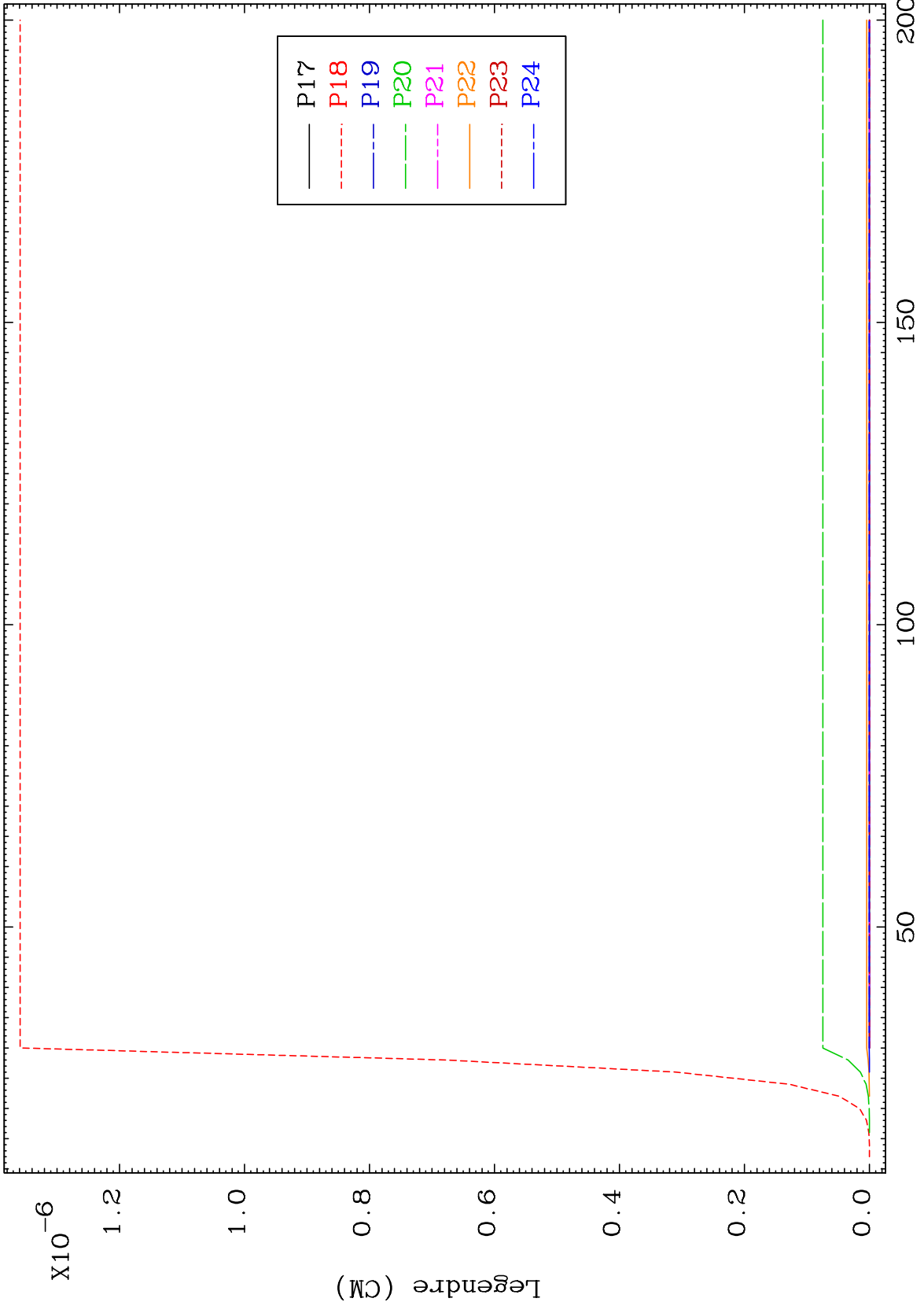
MAT 4022 MT= 52 (n,n') Level Legendre Coefficients 40-Zr-89



22 Incident Energy (MeV) 40-Zr-89

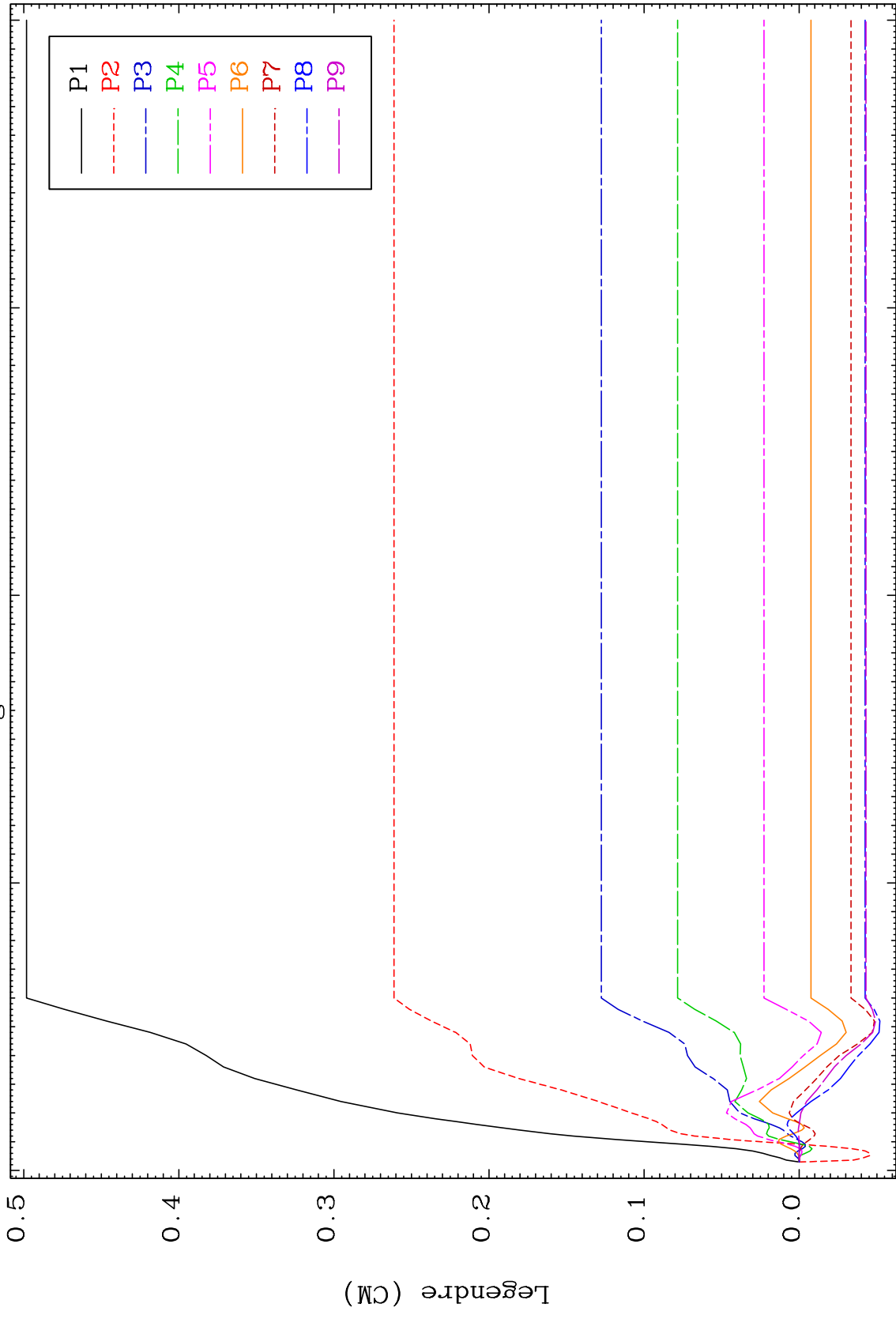


MAT 4022 MT= 52 (n,n') Level Legendre Coefficients 40-Zr-89



24 50 100 150 200 40-Zr-89

MAT 4022 MT= 53 (n,n') Level Legendre Coefficients 40-Zr-89

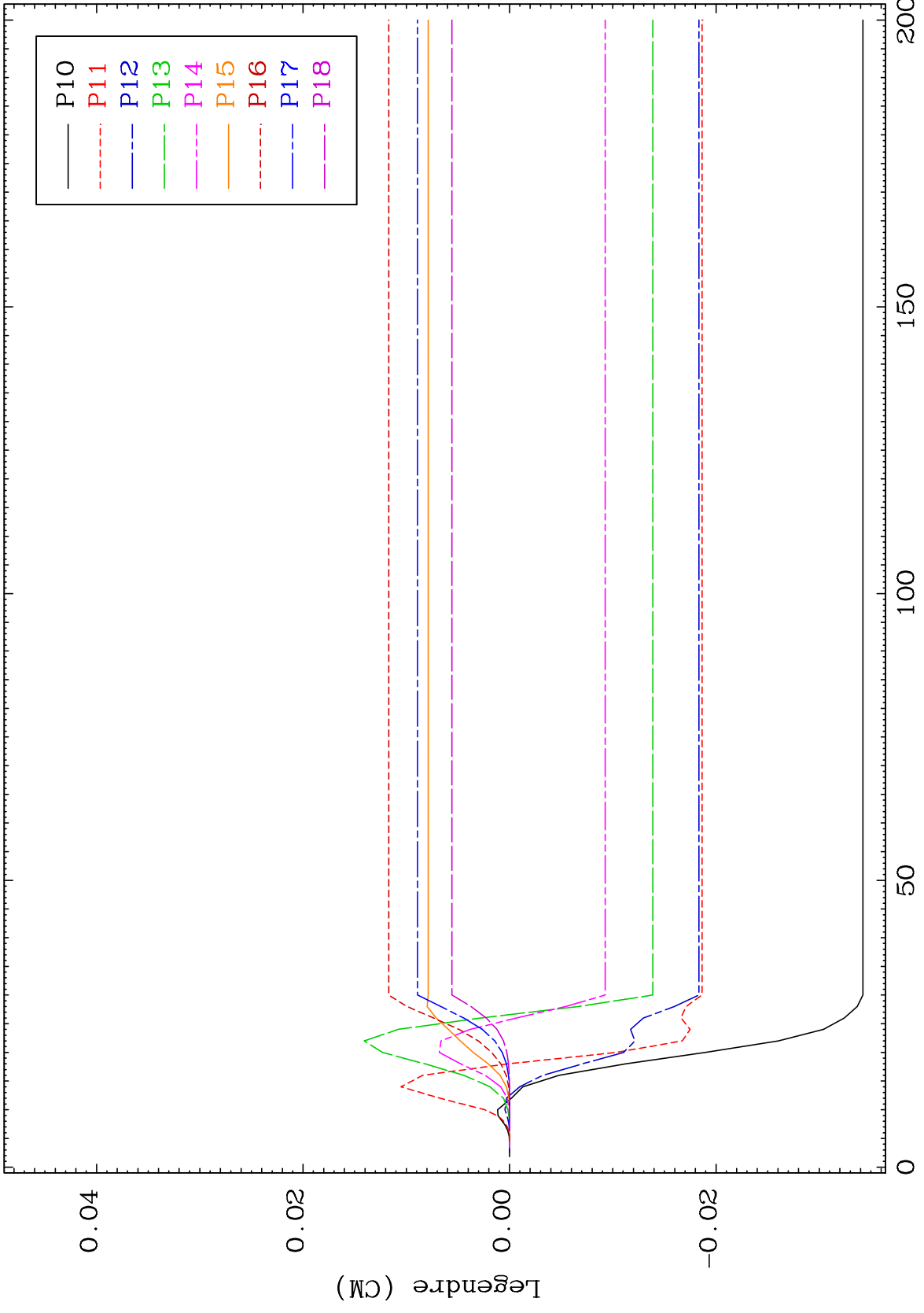


Legendre (CM) Incident Energy (MeV) 40-Zr-89

MAT 4022

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

40-Zr-89



26

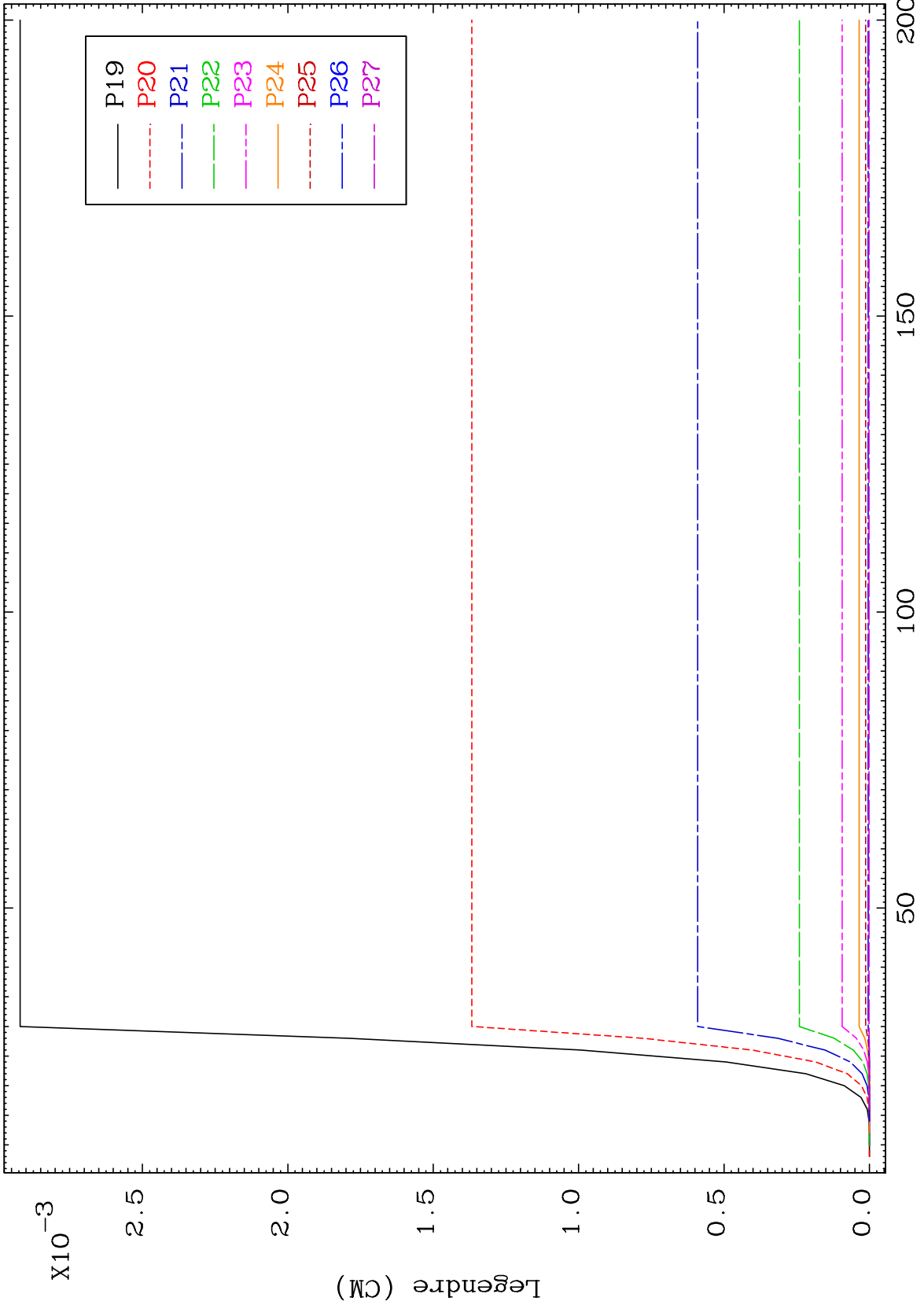
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89



27

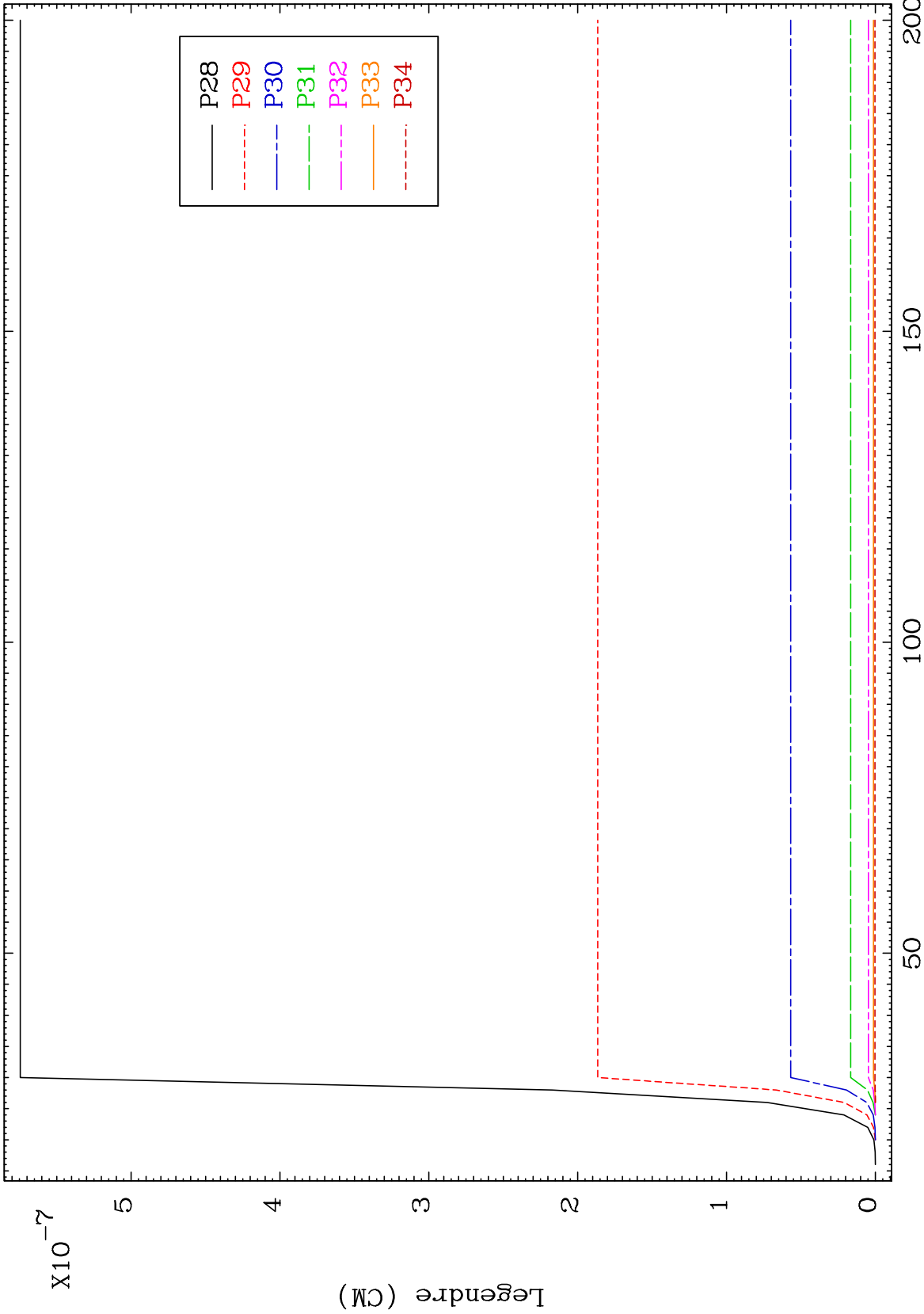
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89

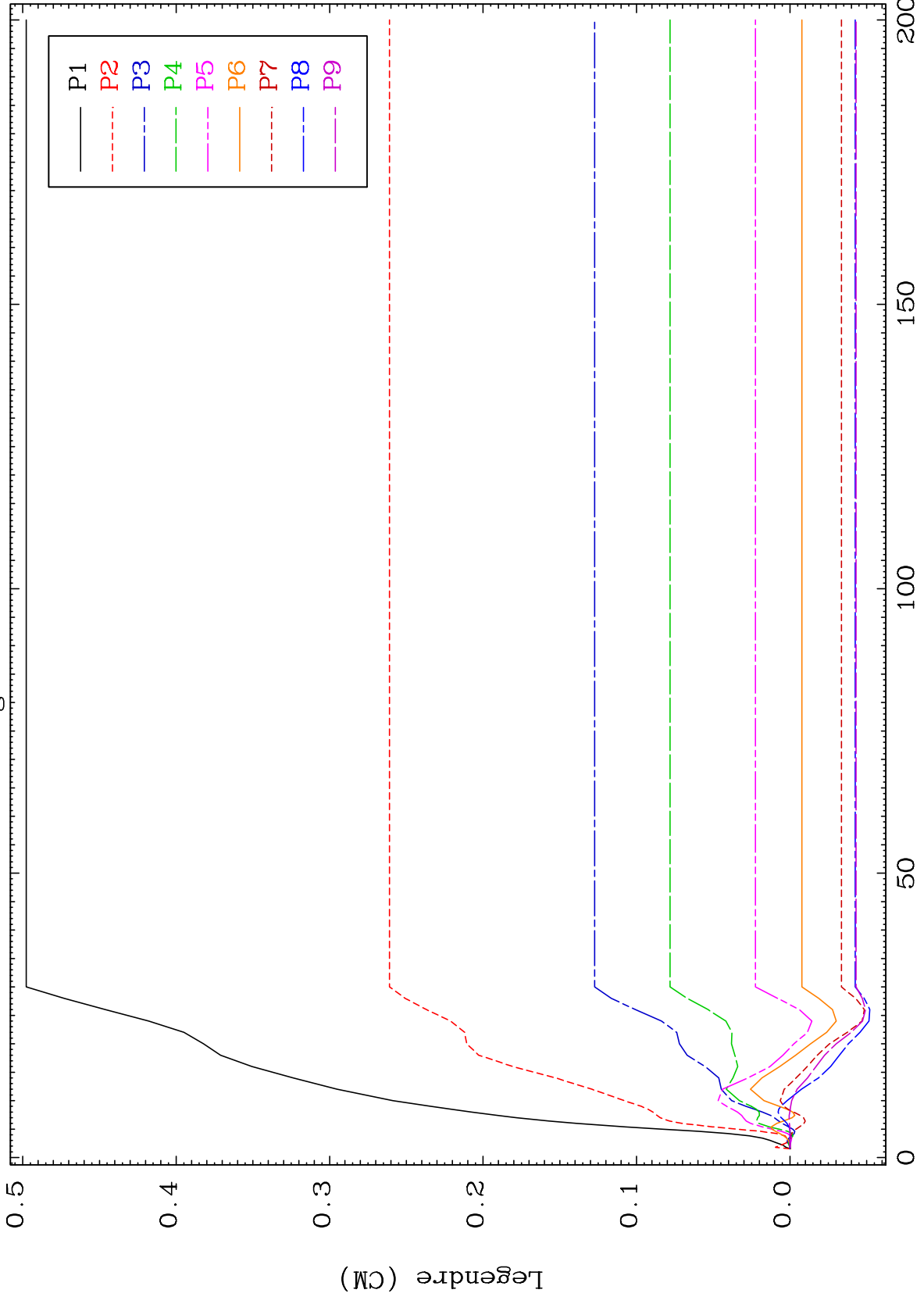


28

Incident Energy (MeV)

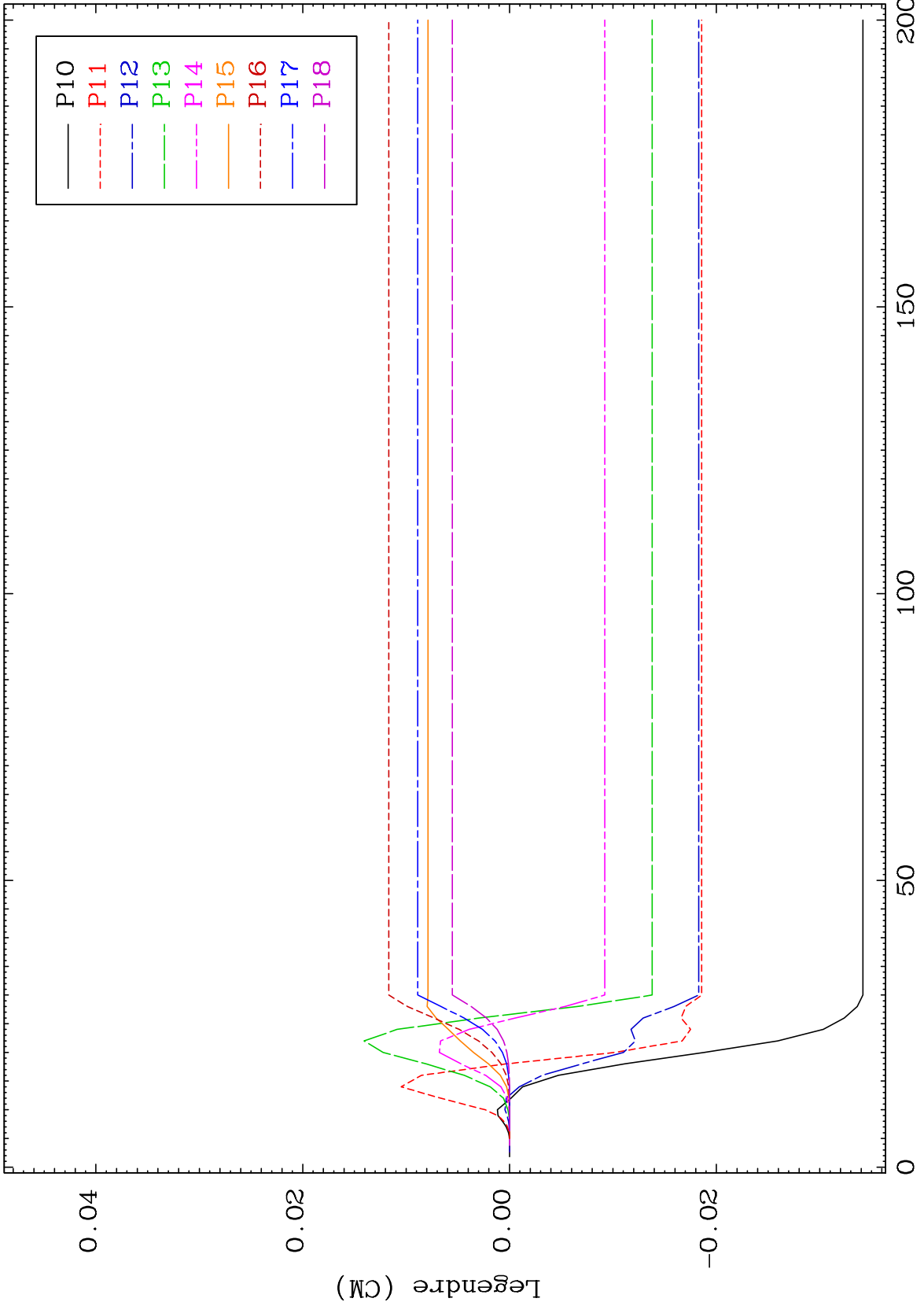
40-Zr-89

MAT 4022 MT= 54 (n,n') Level Legendre Coefficients 40-Zr-89



29 40-Zr-89

MAT 4022 MT= 54 (n,n') Level Legendre Coefficients 40-Zr-89

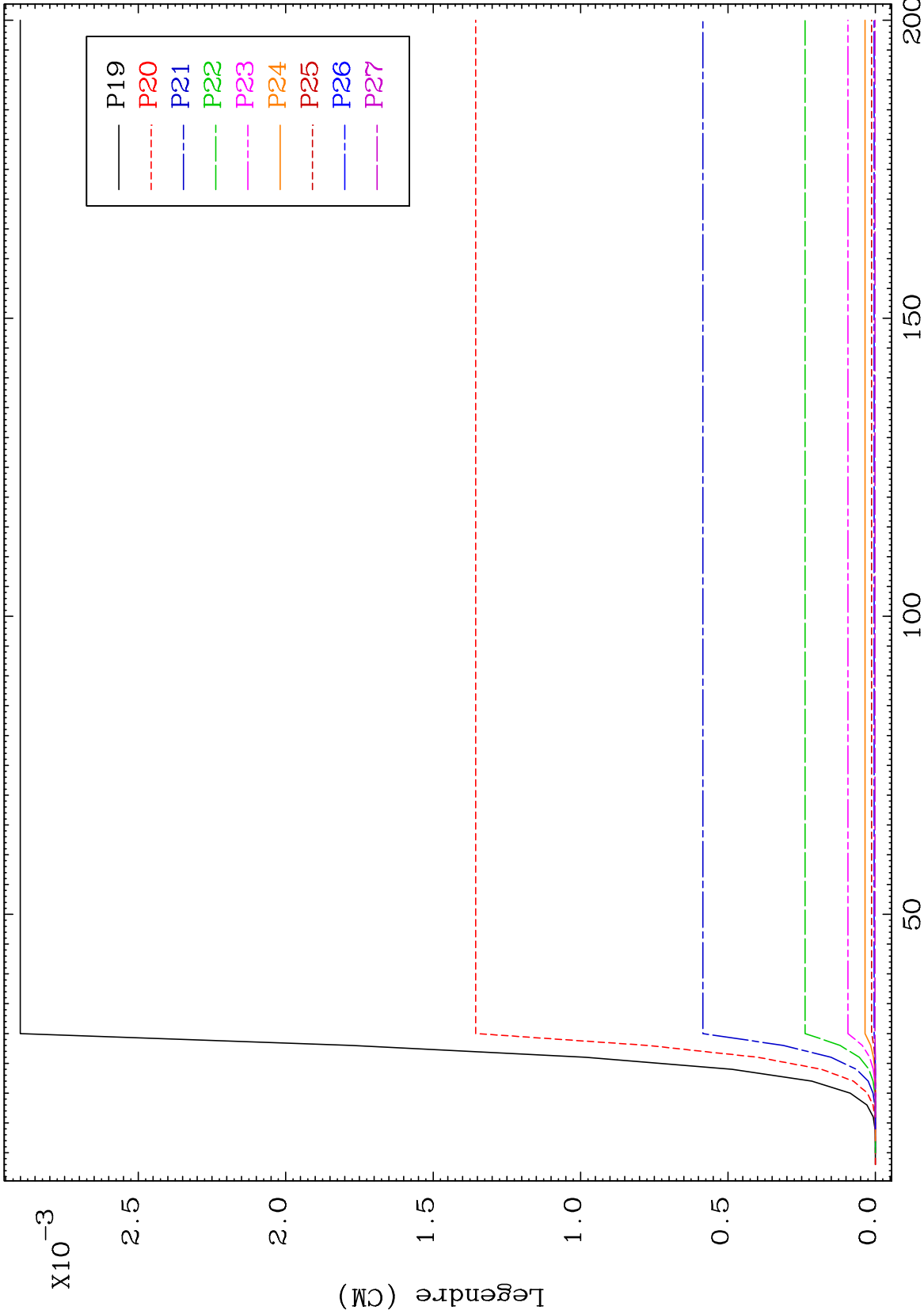


30 Incident Energy (MeV) 40-Zr-89

MAT 4022

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

40-Zr-89



31

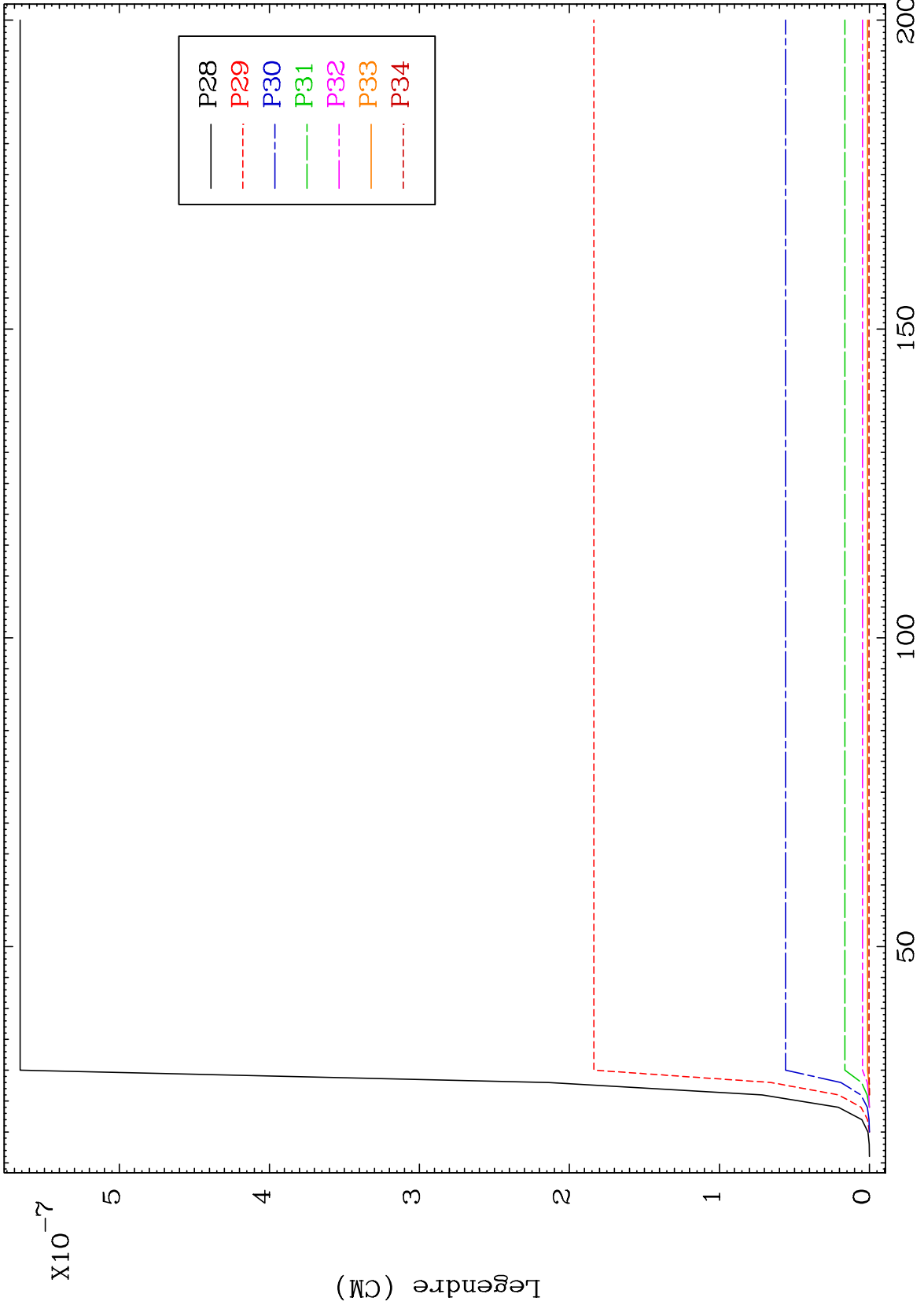
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89

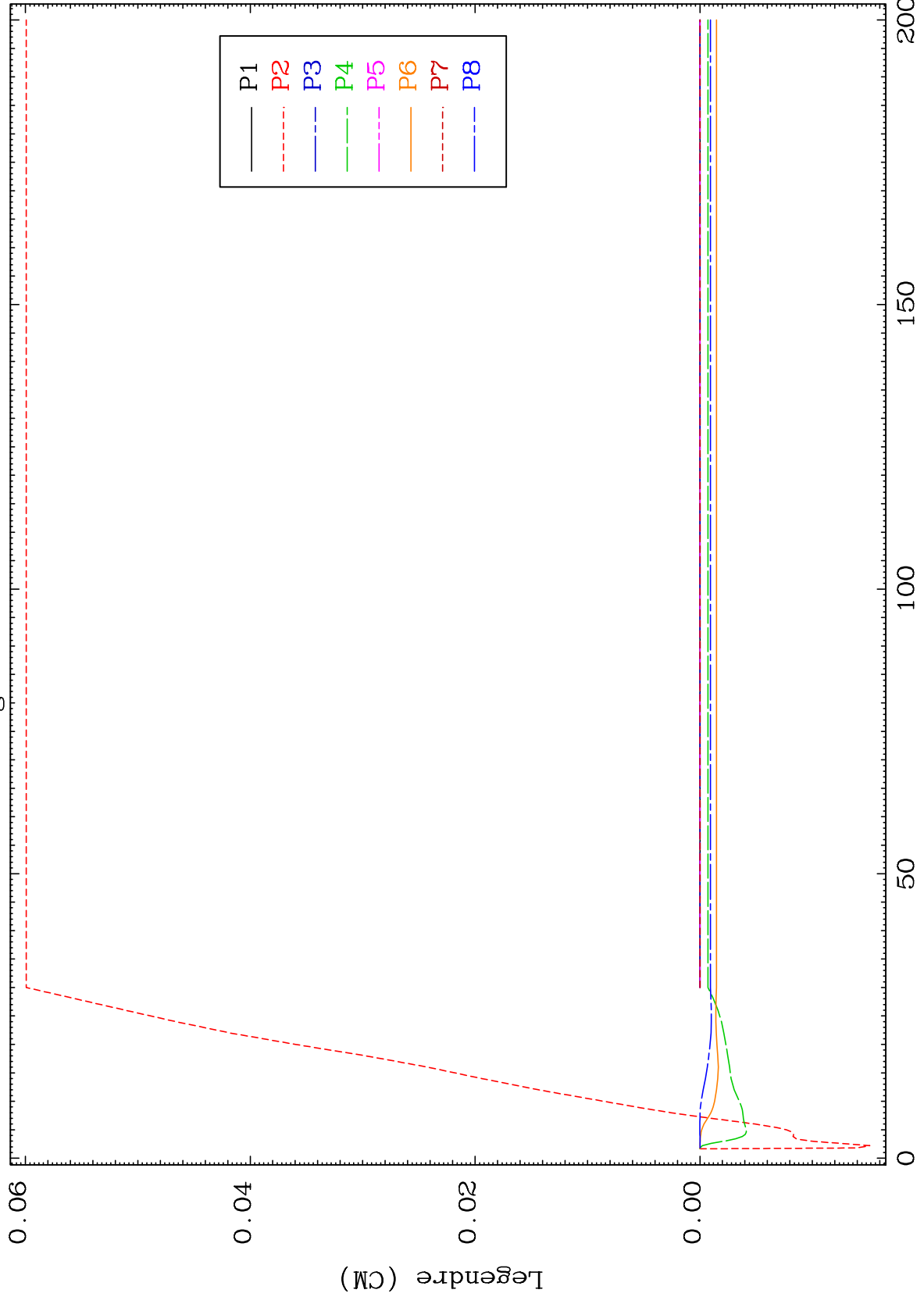


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Incident Energy (MeV)

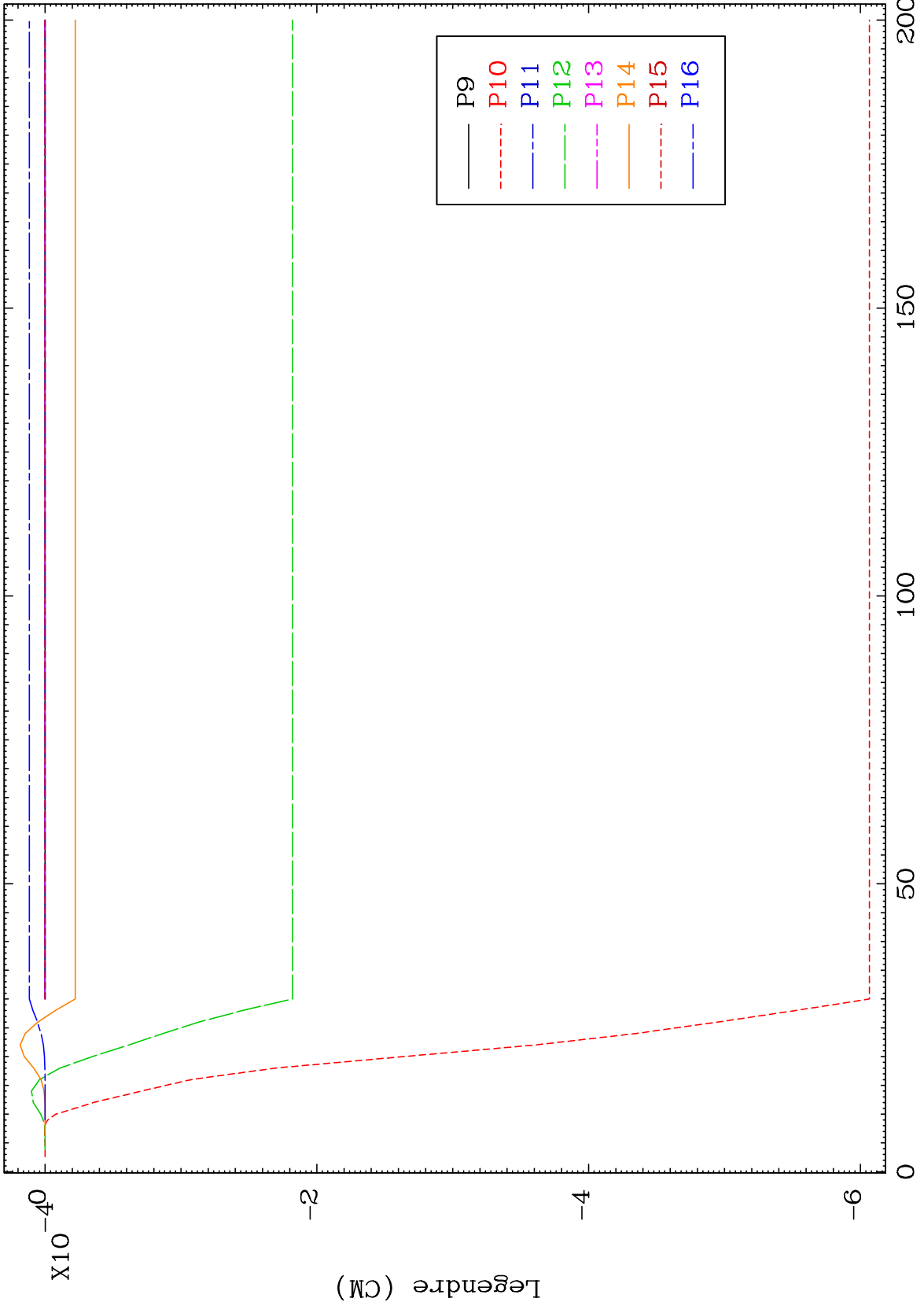
40-Zr-89

MAT 4022 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-89



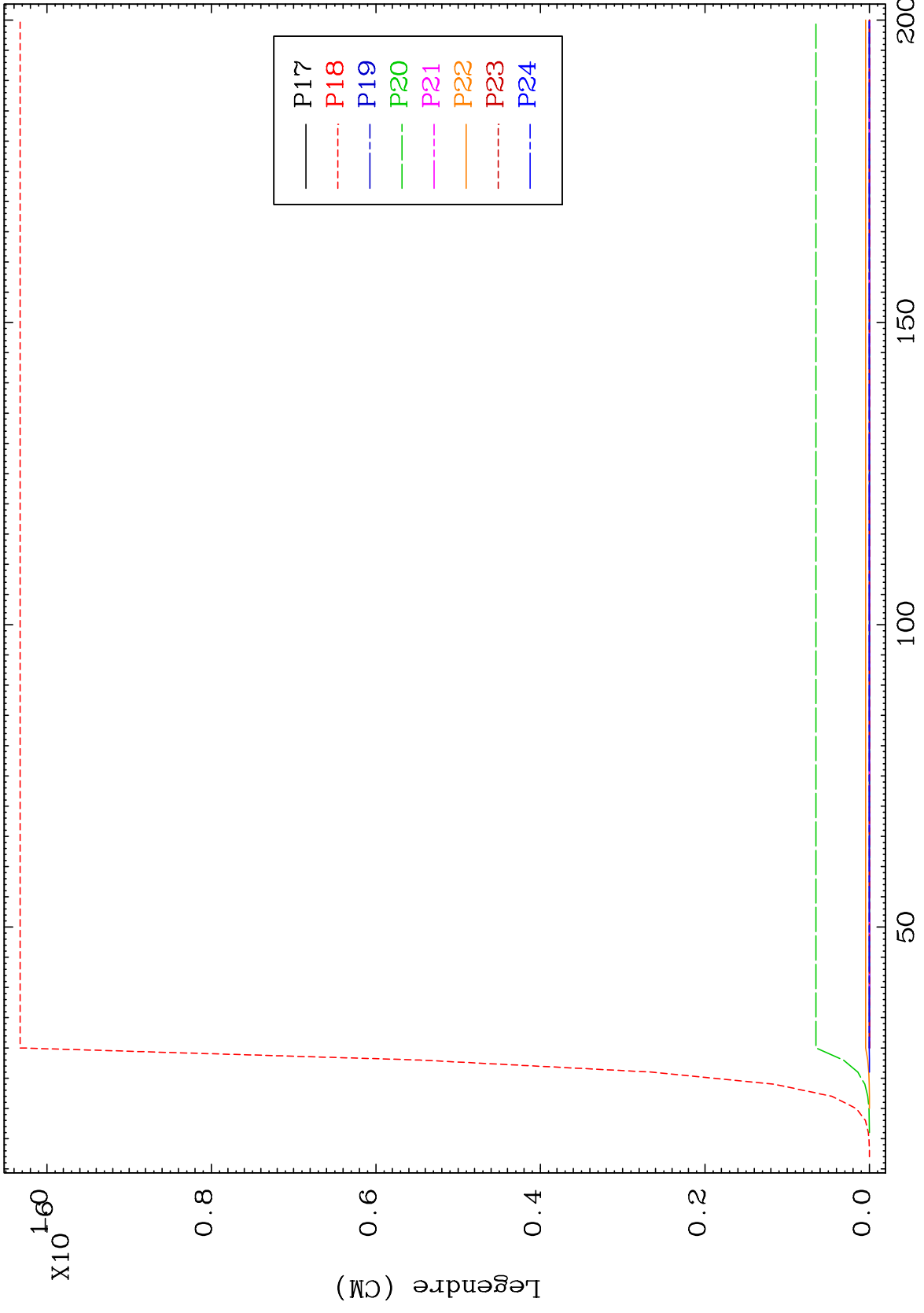
33 Incident Energy (MeV) 40-Zr-89

MAT 4022 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-89



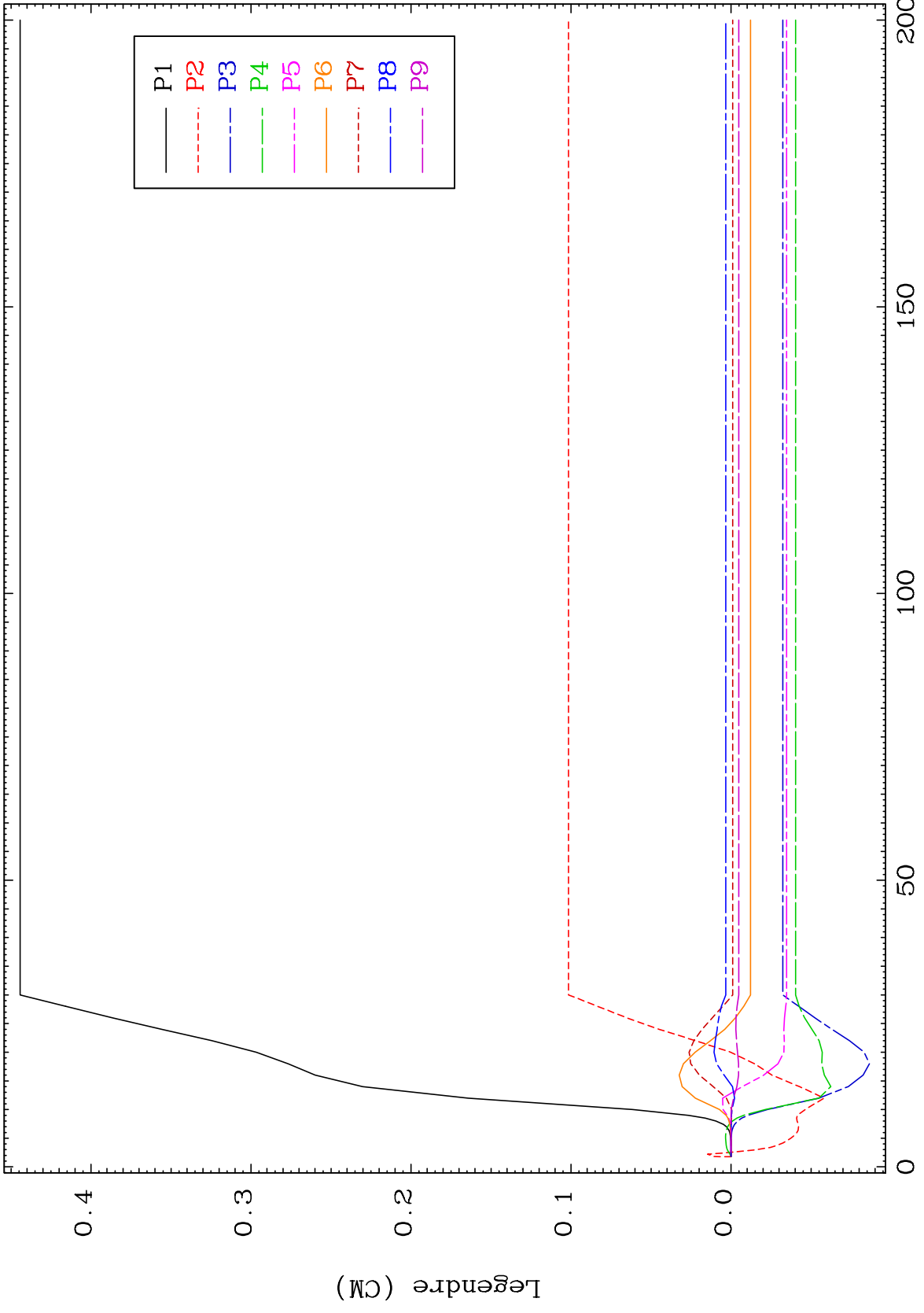
34 40-Zr-89

MAT 4022 MT= 55 (n,n') Level Legendre Coefficients 40-Zr-89

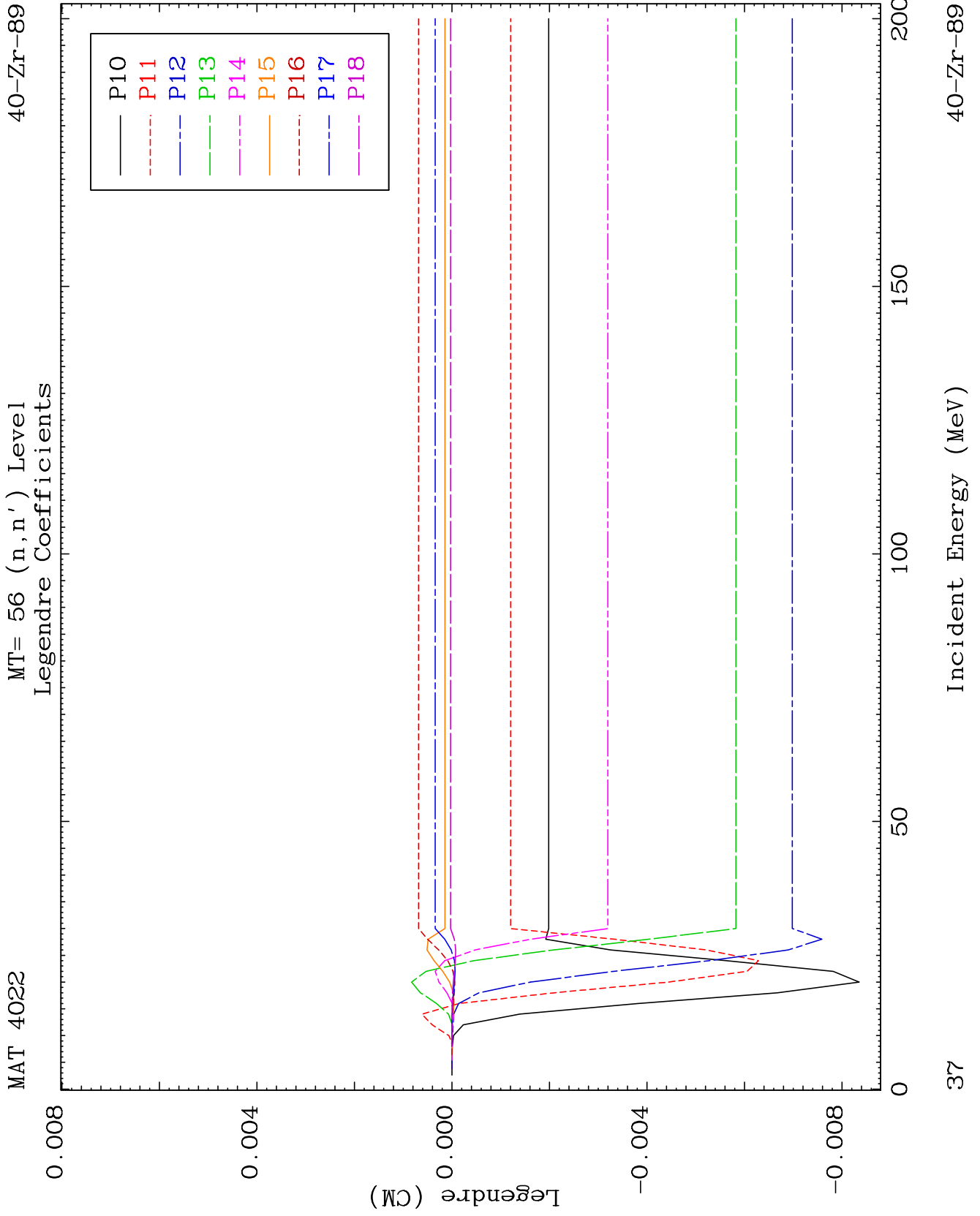


35 Incident Energy (MeV) 40-Zr-89

MAT 4022 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-89



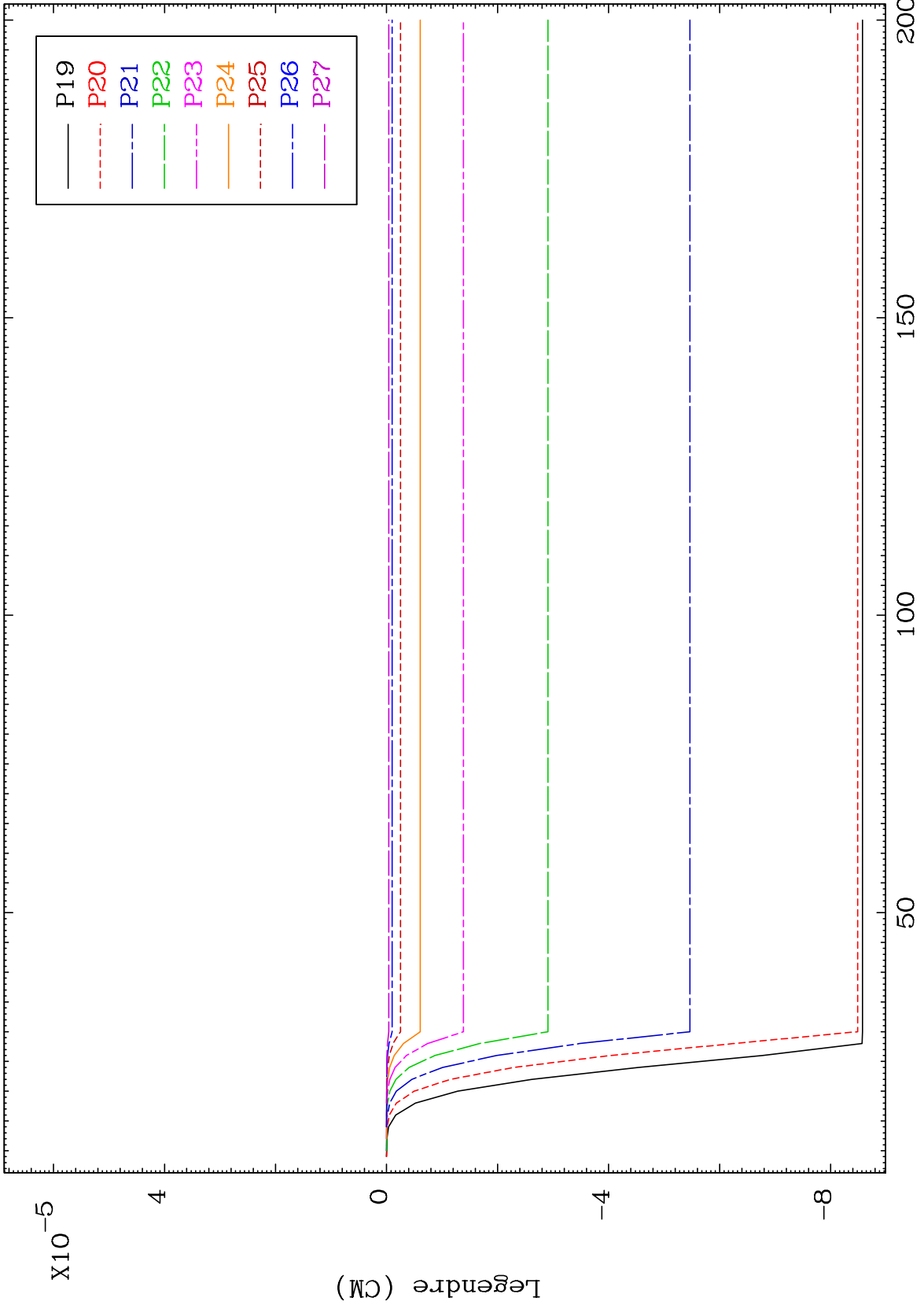
36 40-Zr-89



MAT 4022

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

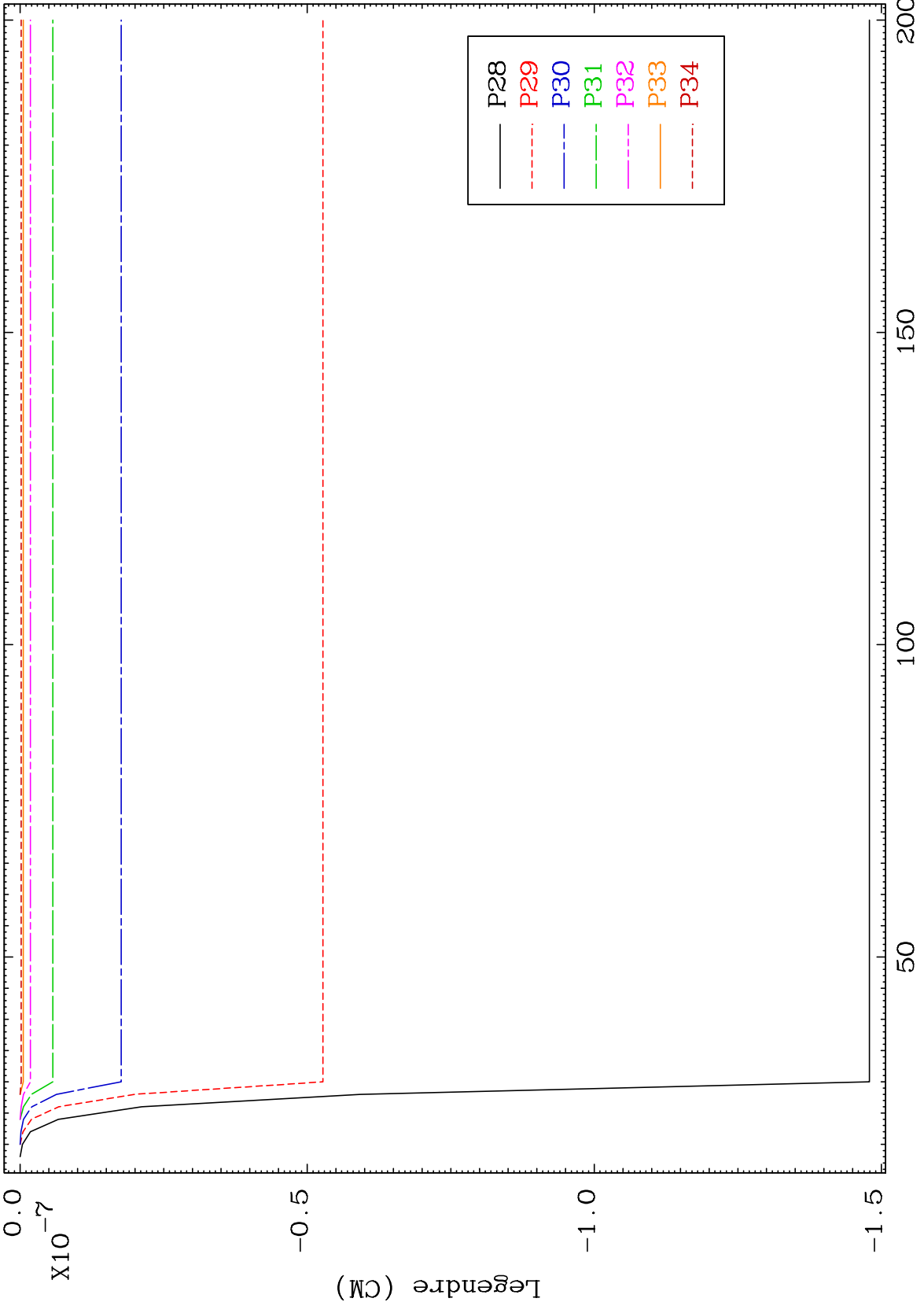
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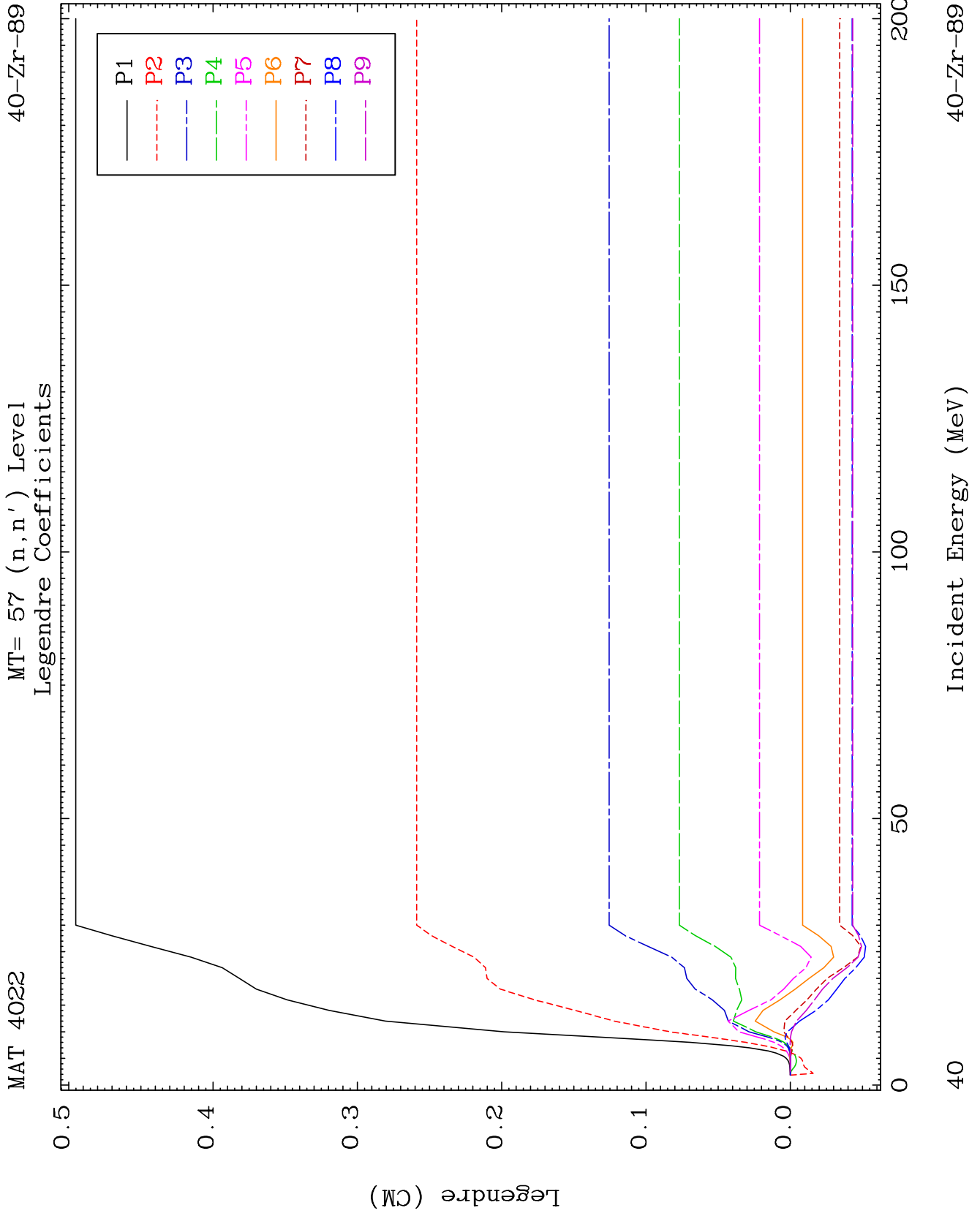


38

40-Zr-89

MAT 4022 MT= 56 (n,n') Level Legendre Coefficients 40-Zr-89

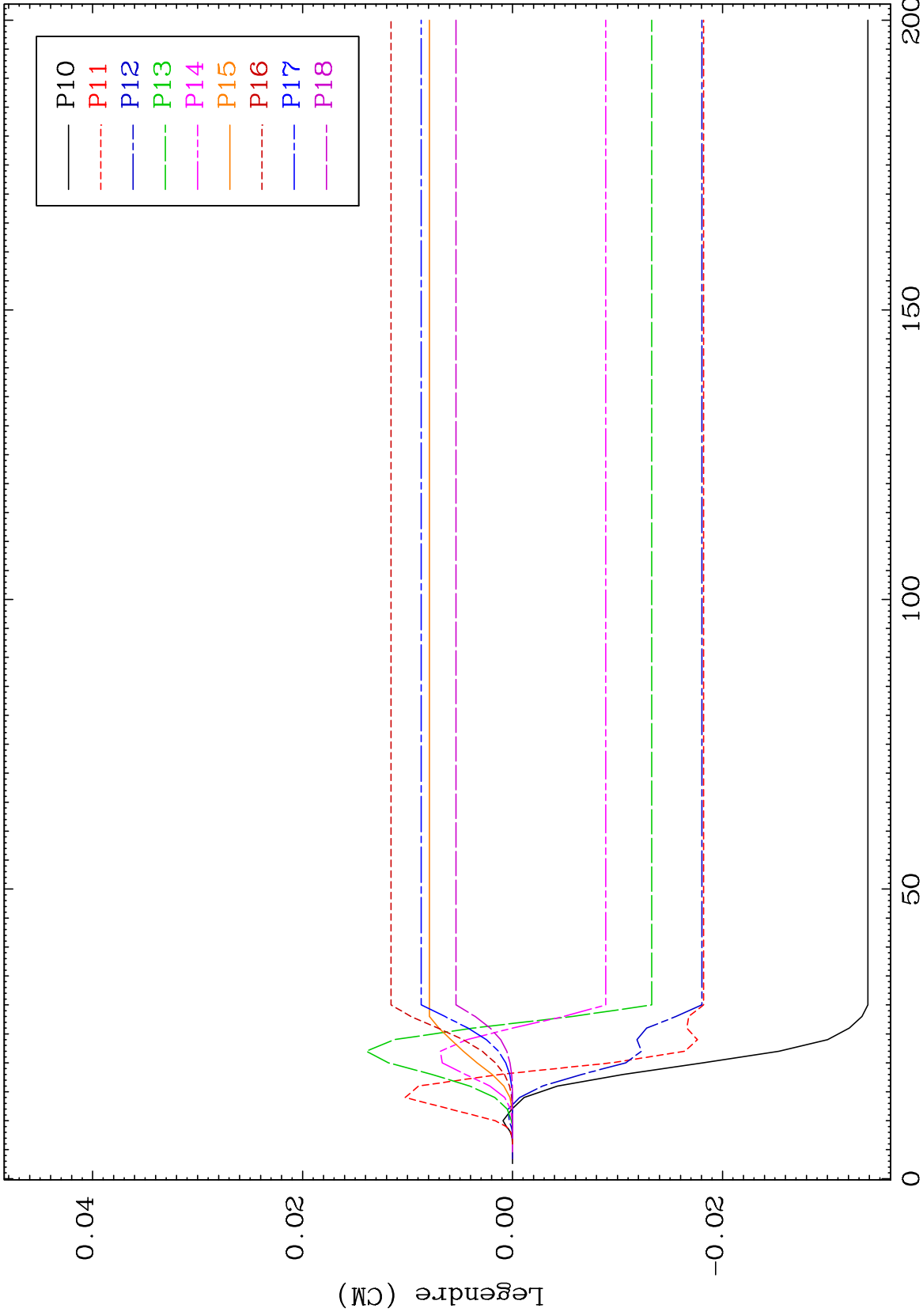




MAT 4022

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

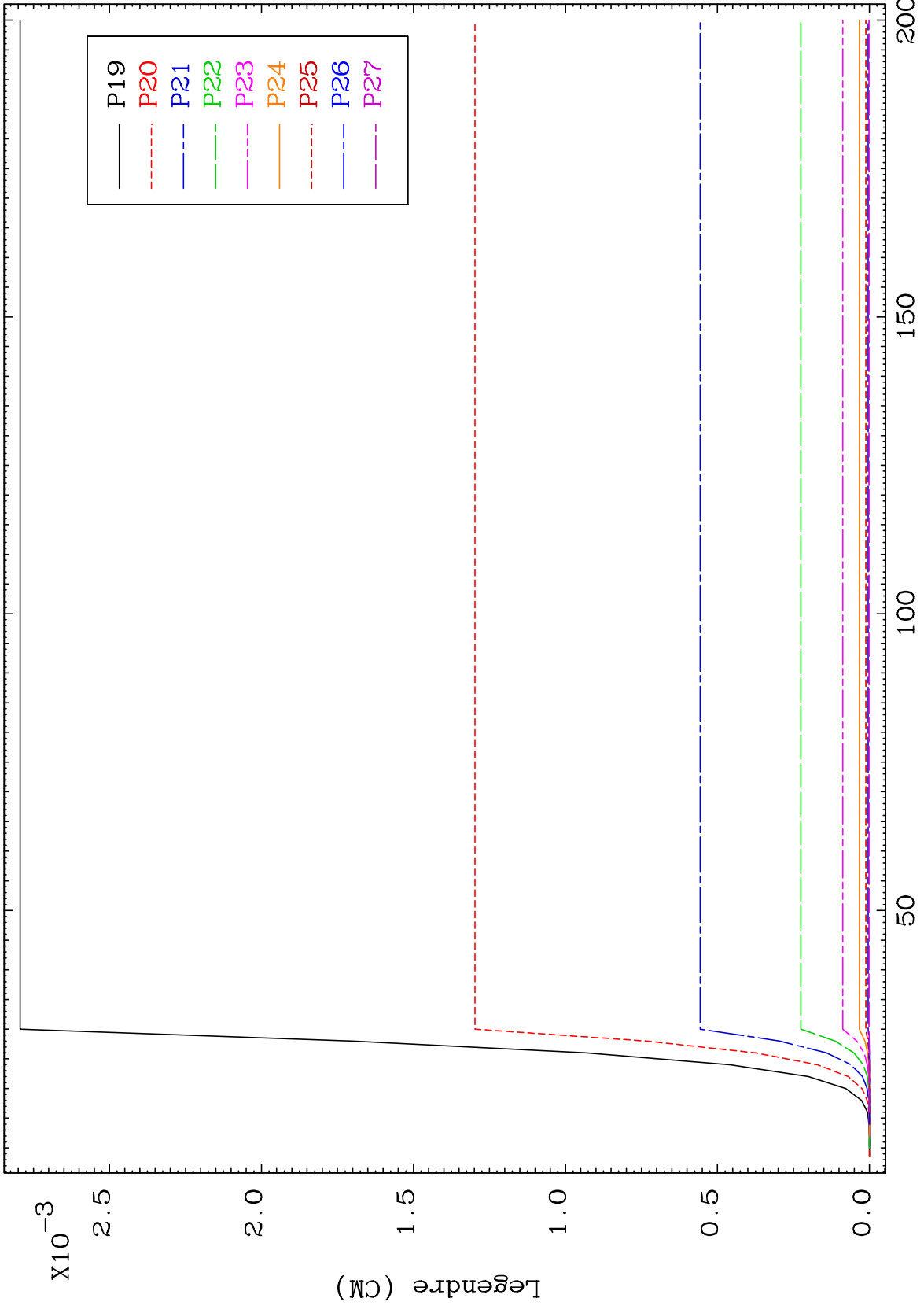
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41

Incident Energy (MeV)

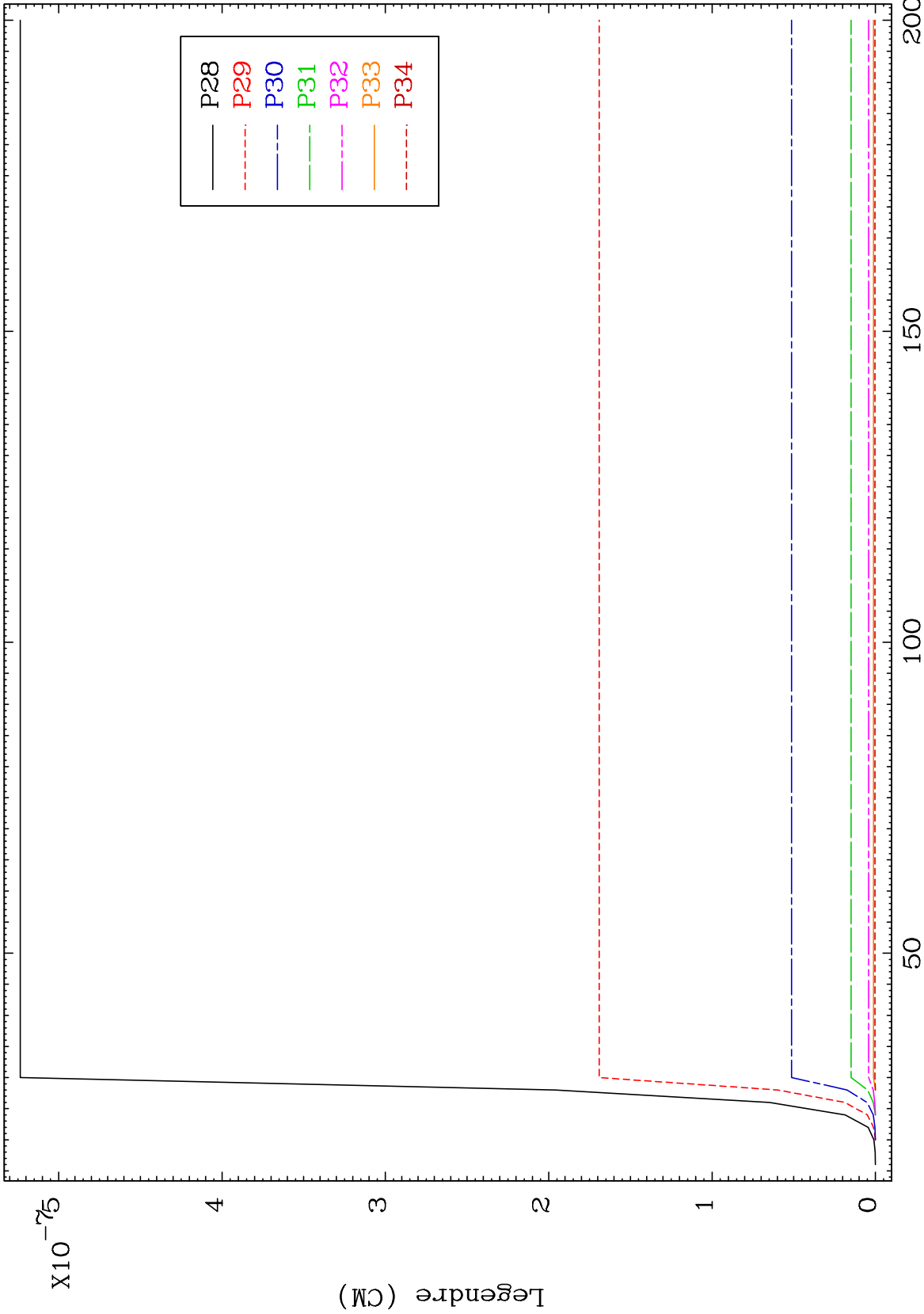
40-Zr-89



MAT 4022

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

40-Zr-89



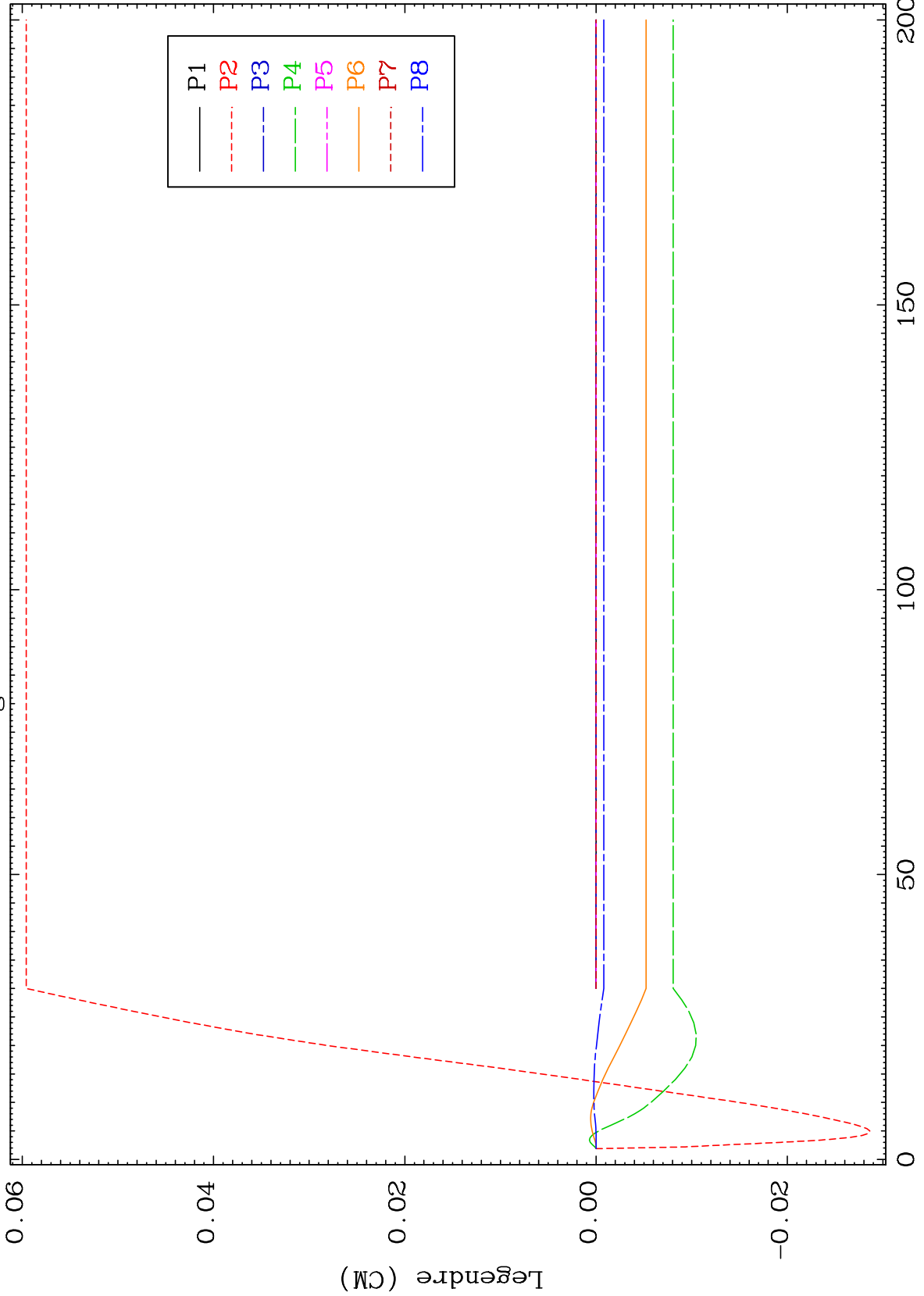
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40-Zr-89

MAT 4022 MT= 58 (n,n') Level Legendre Coefficients

40-Zr-89

44

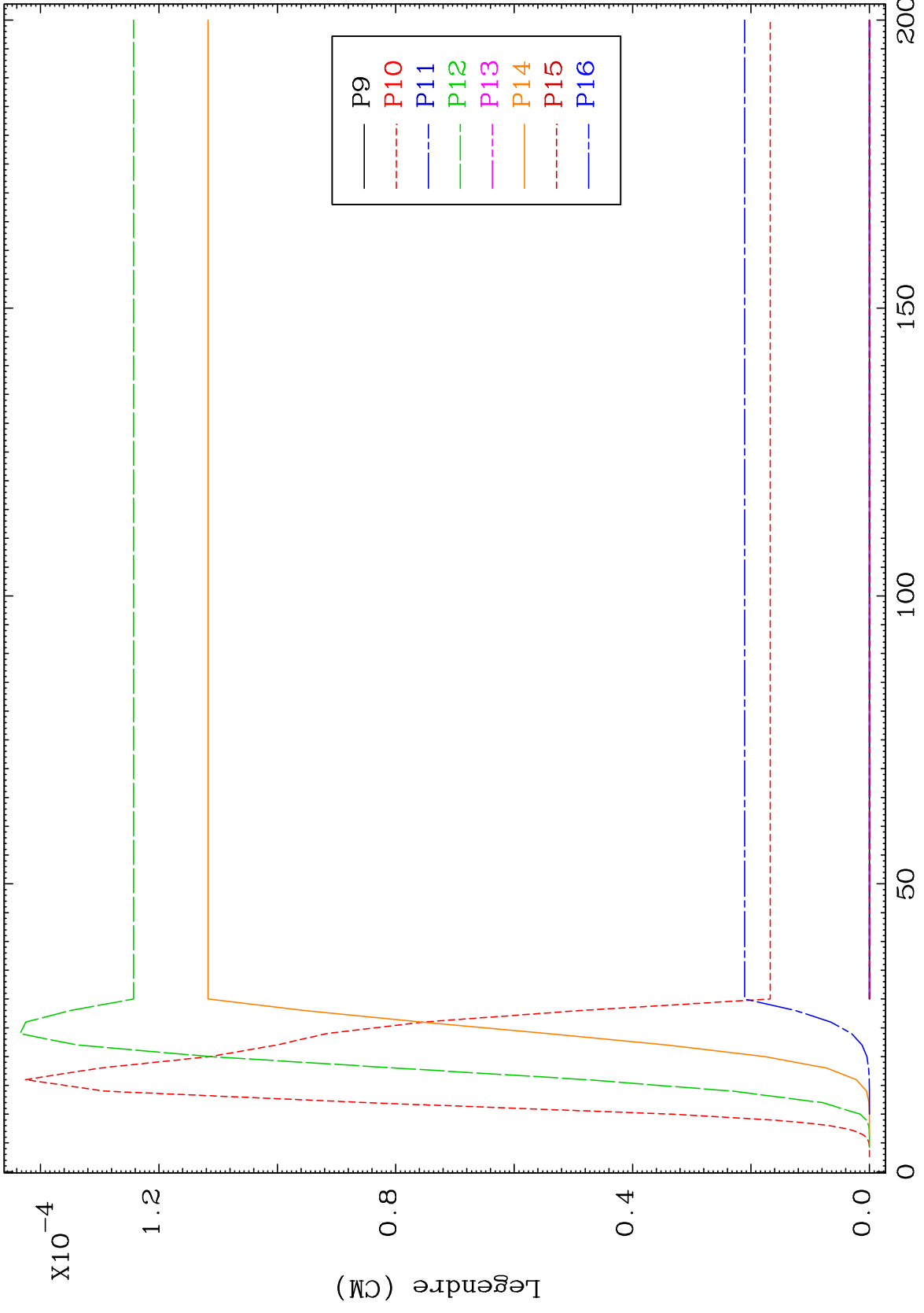


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Incident Energy (MeV)

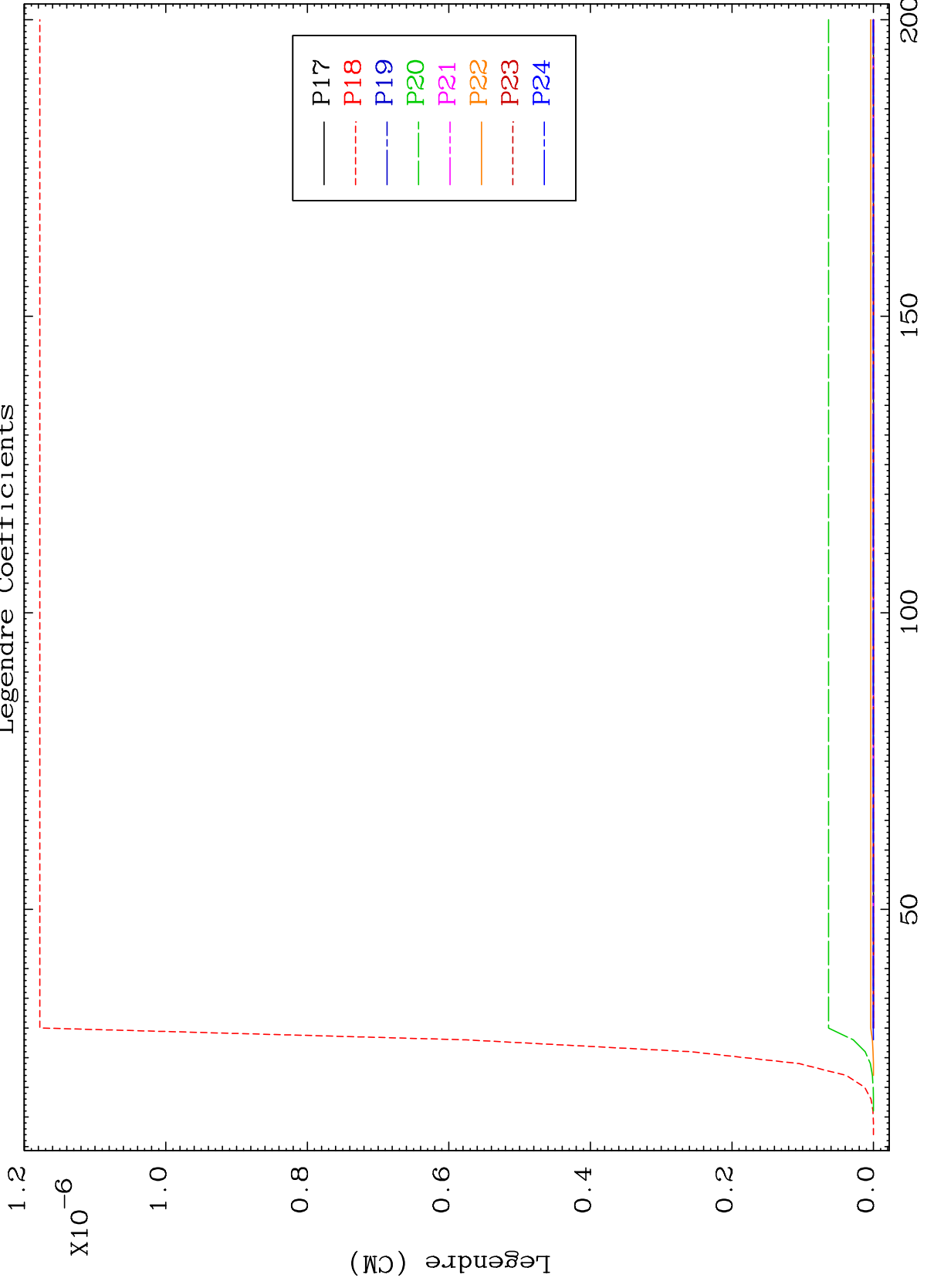
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MAT 4022 MT= 58 (n,n') Level Legendre Coefficients 40-Zr-89



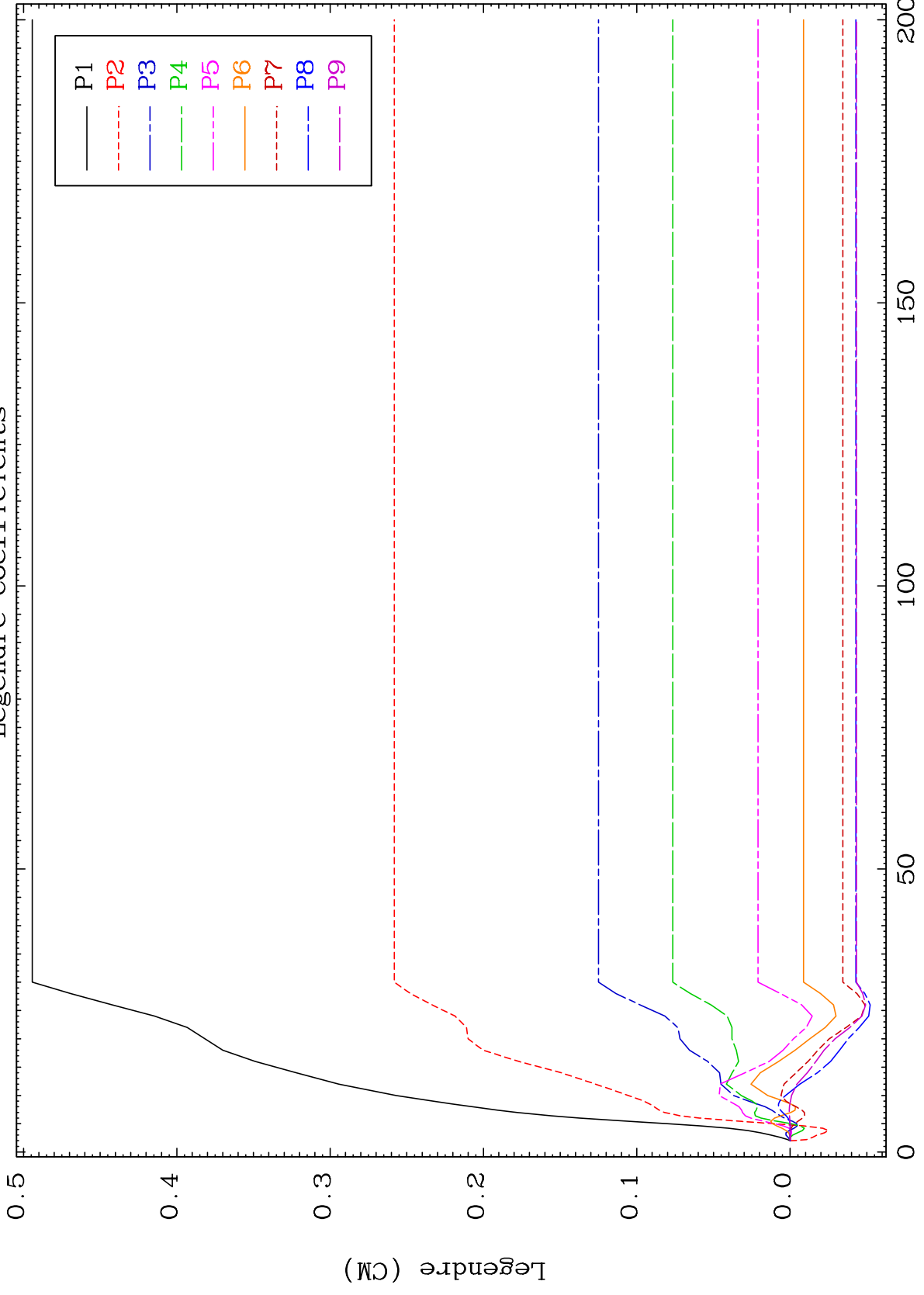
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MAT 4022 MT= 58 (n,n') Level Legendre Coefficients 40-Zr-89



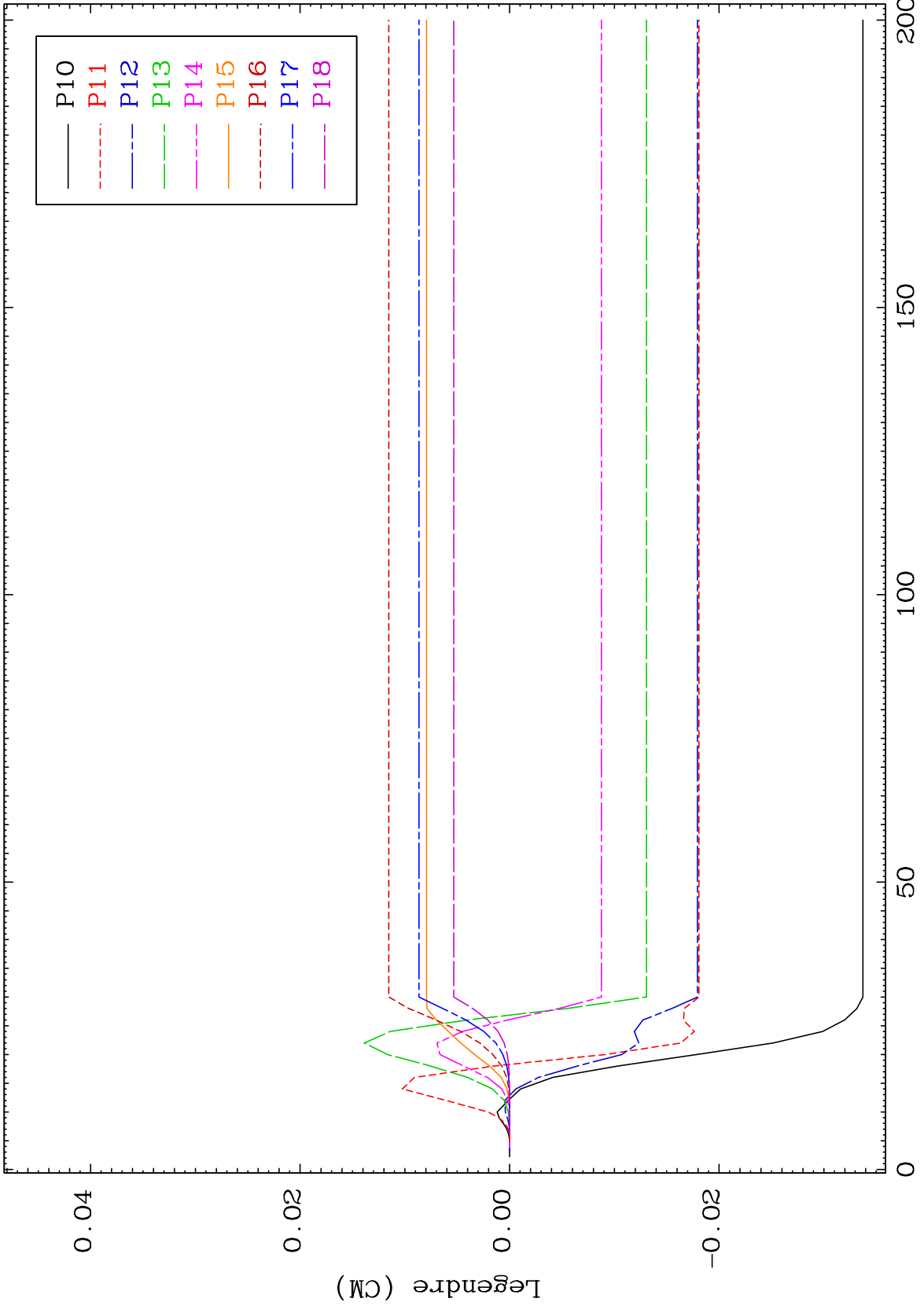
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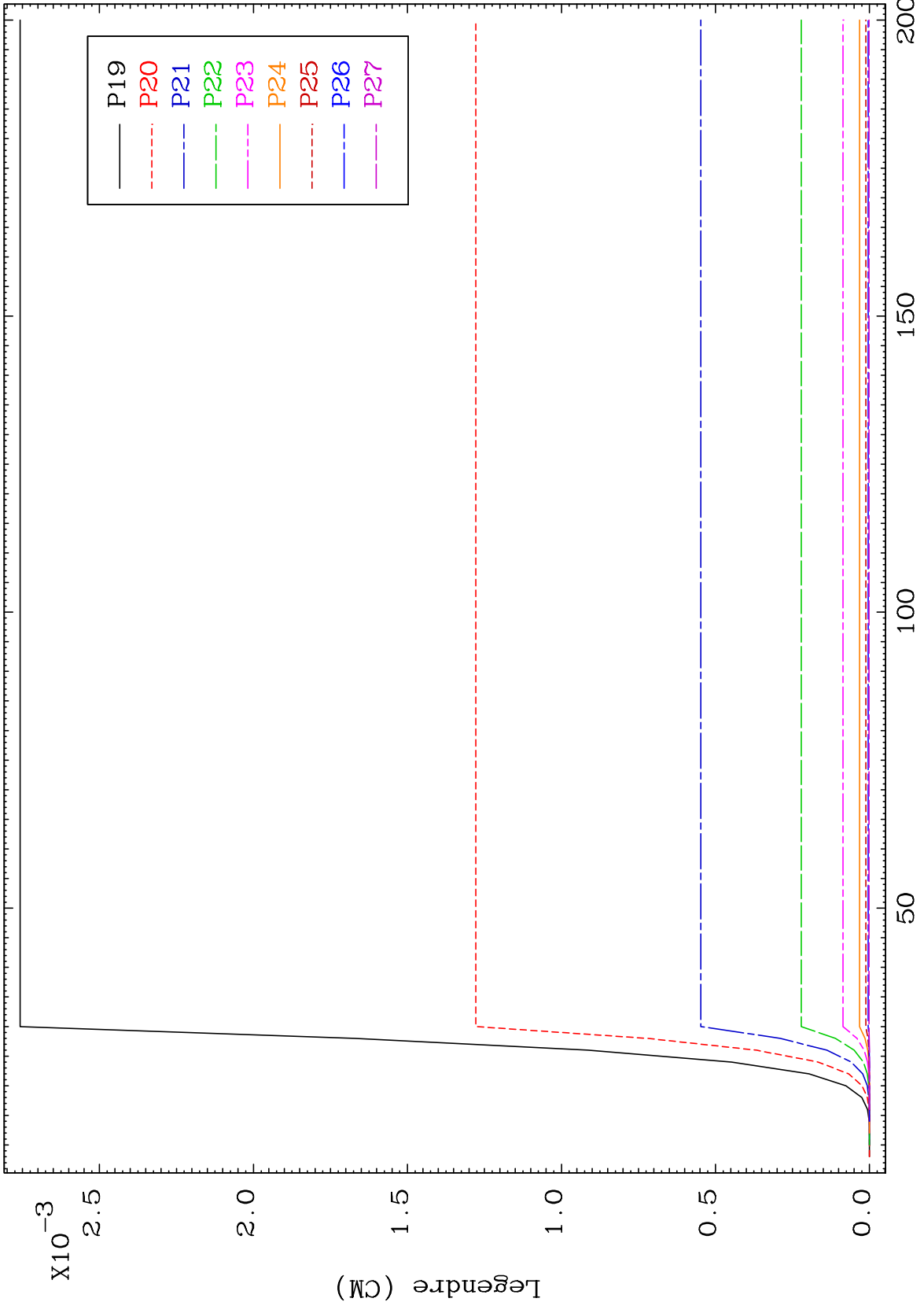


47 40-Zr-89

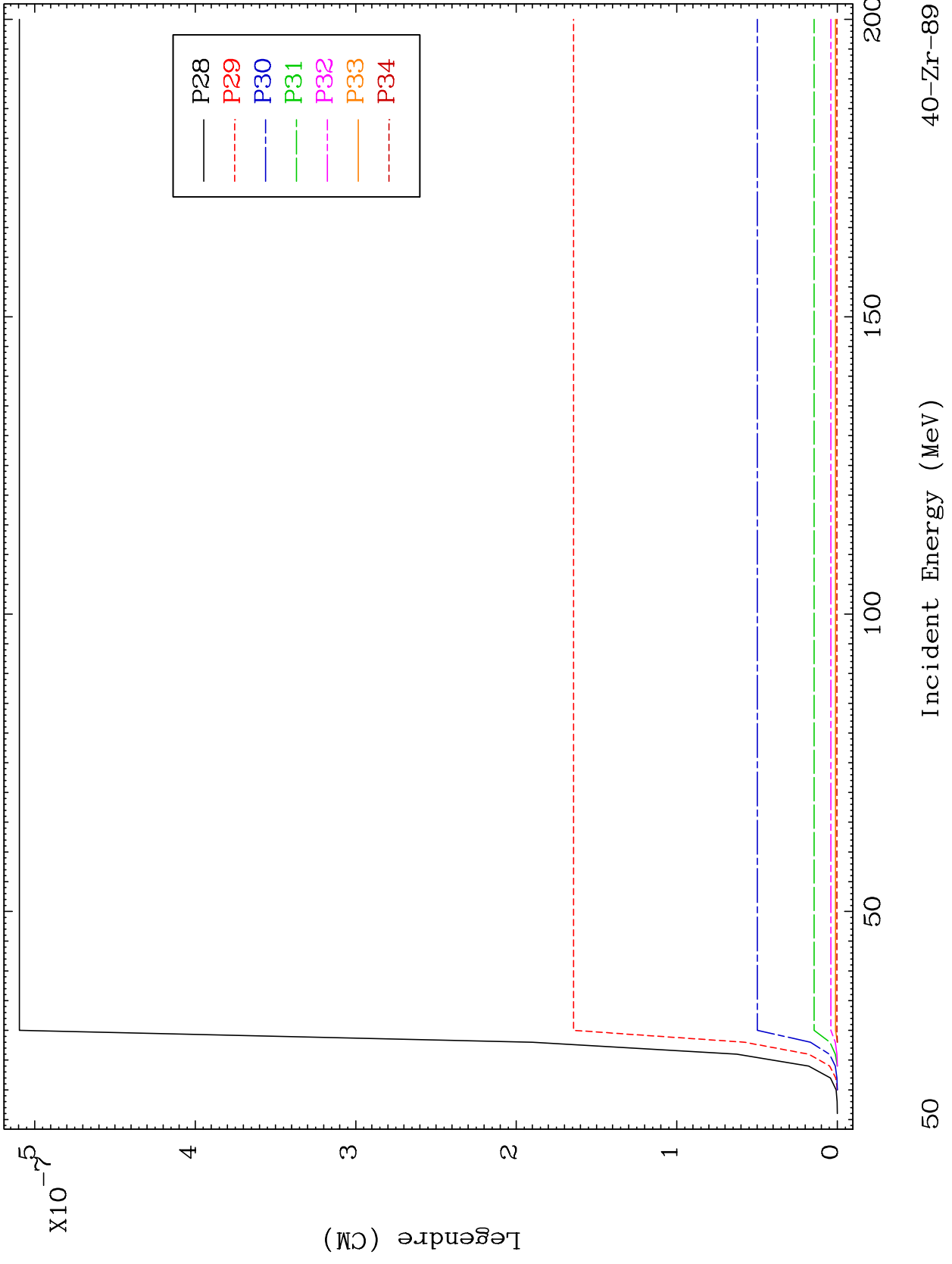
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48 40-Zr-89



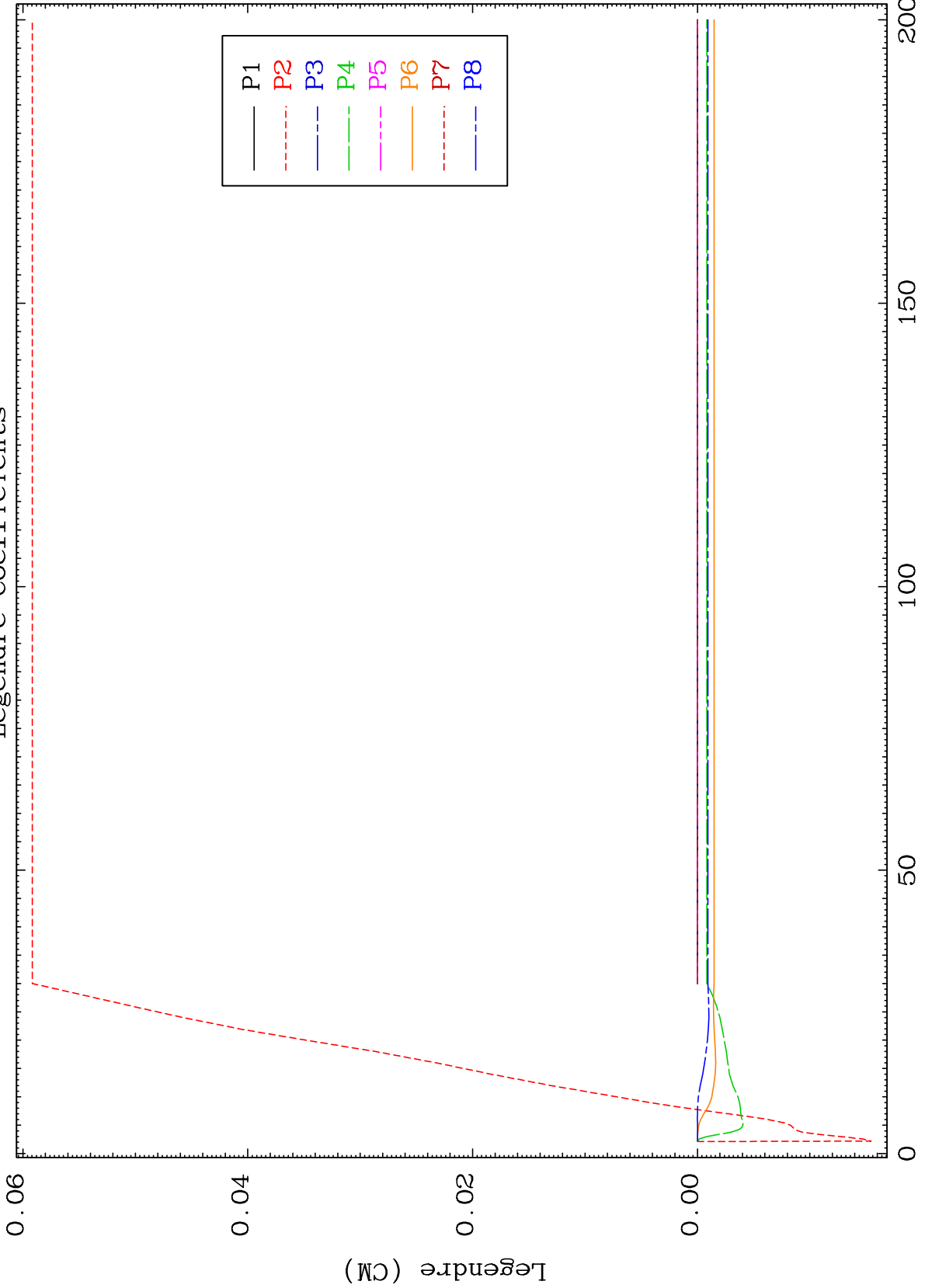
MAT 4022 MT= 59 (n,n') Level Legendre Coefficients 40-Zr-89



MAT 4022 MT= 60 (n,n') Level Legendre Coefficients

40-Zr-89

51

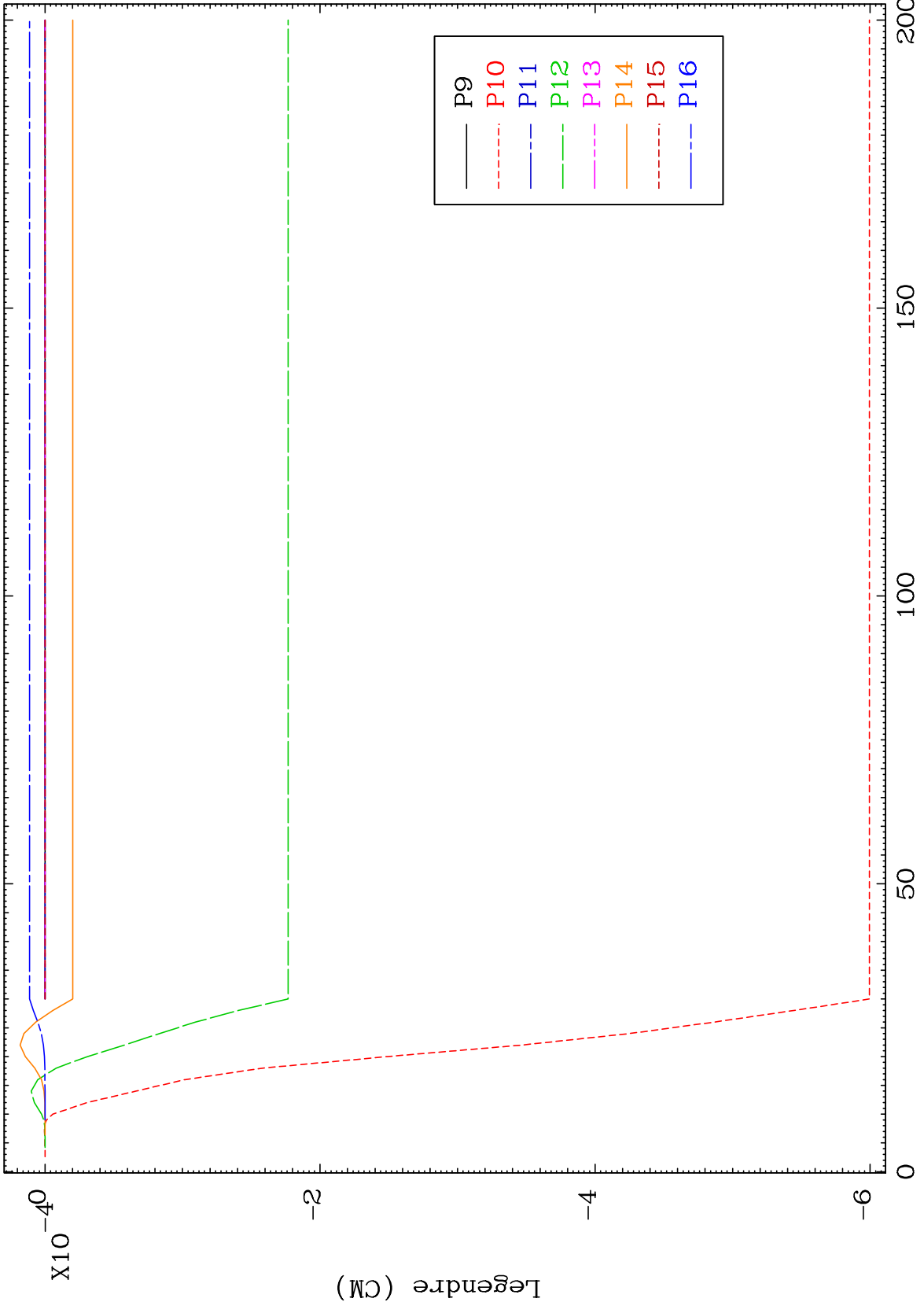


40-Zr-89

Incident Energy (MeV)

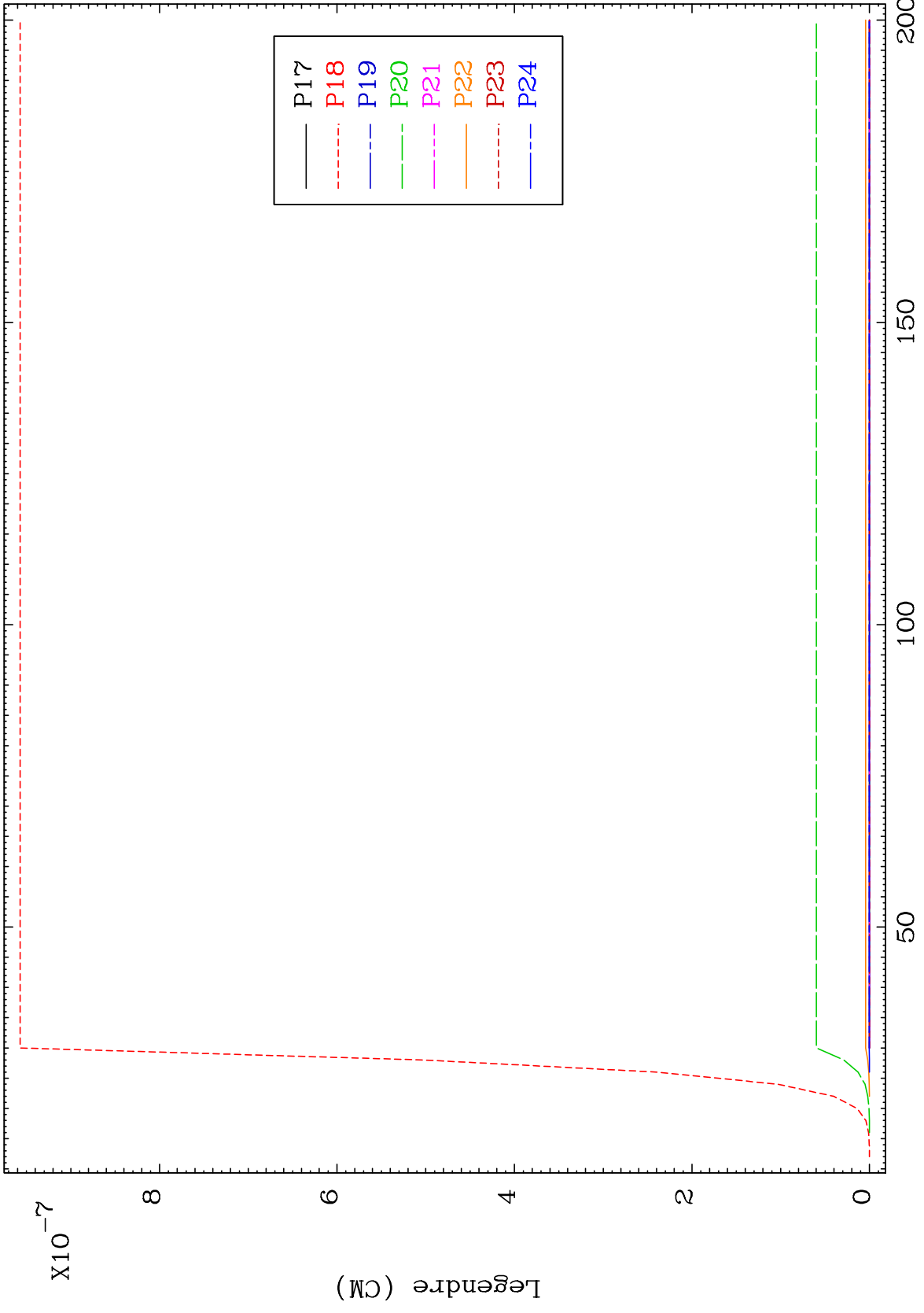
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MAT 4022 MT= 60 (n,n') Level Legendre Coefficients 40-Zr-89



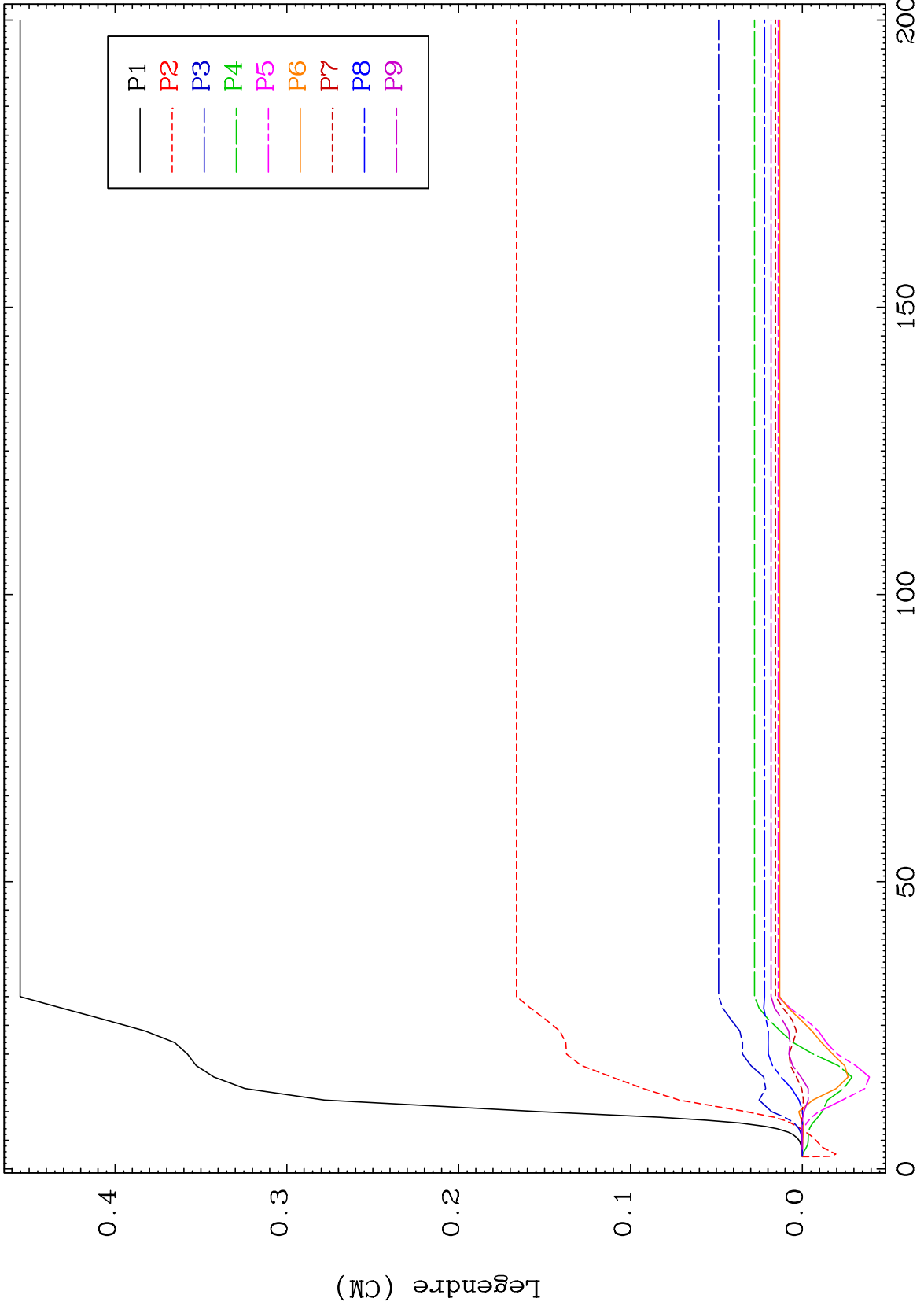
52 40-Zr-89

MAT 4022 MT= 60 (n,n') Level Legendre Coefficients 40-Zr-89

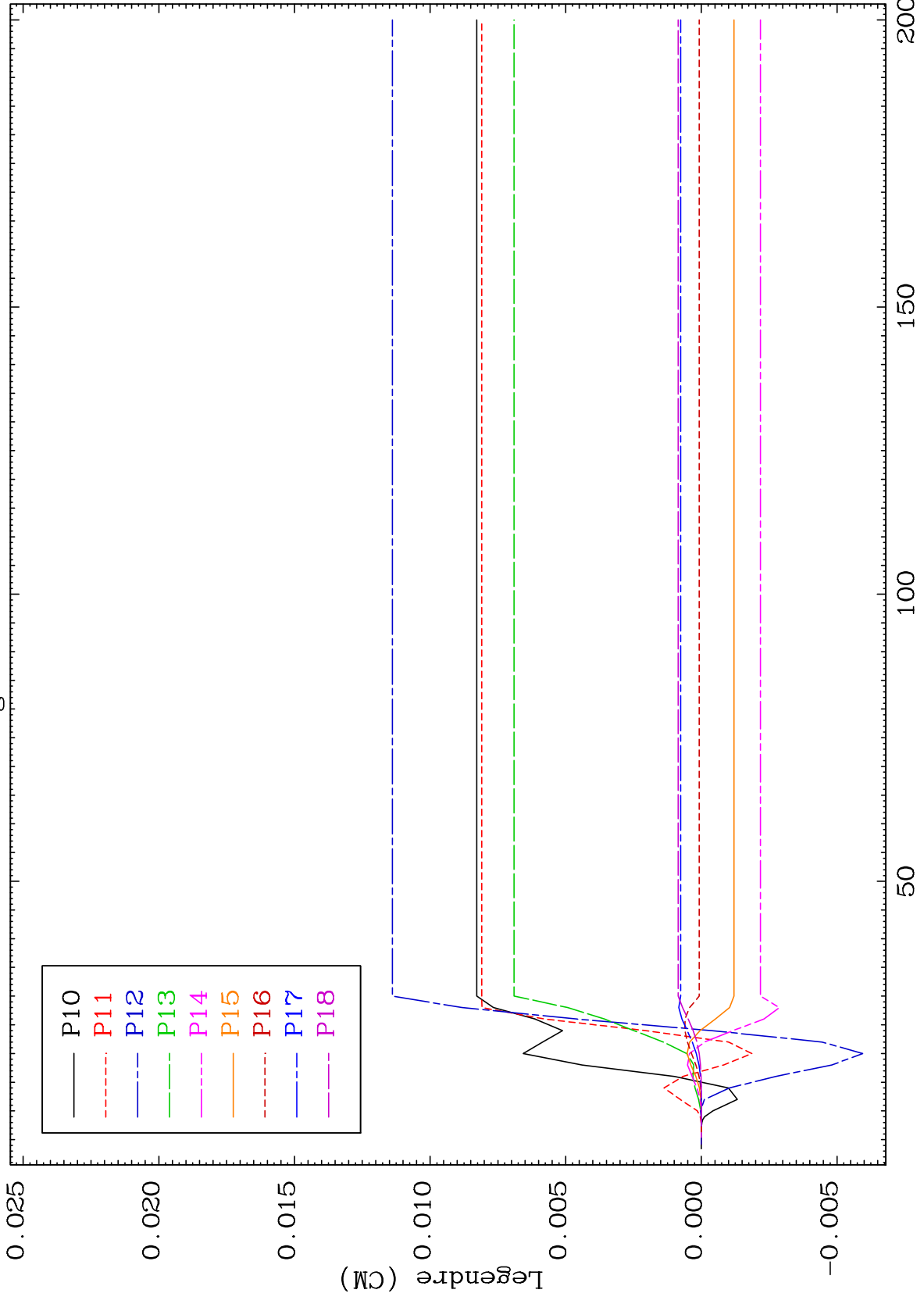


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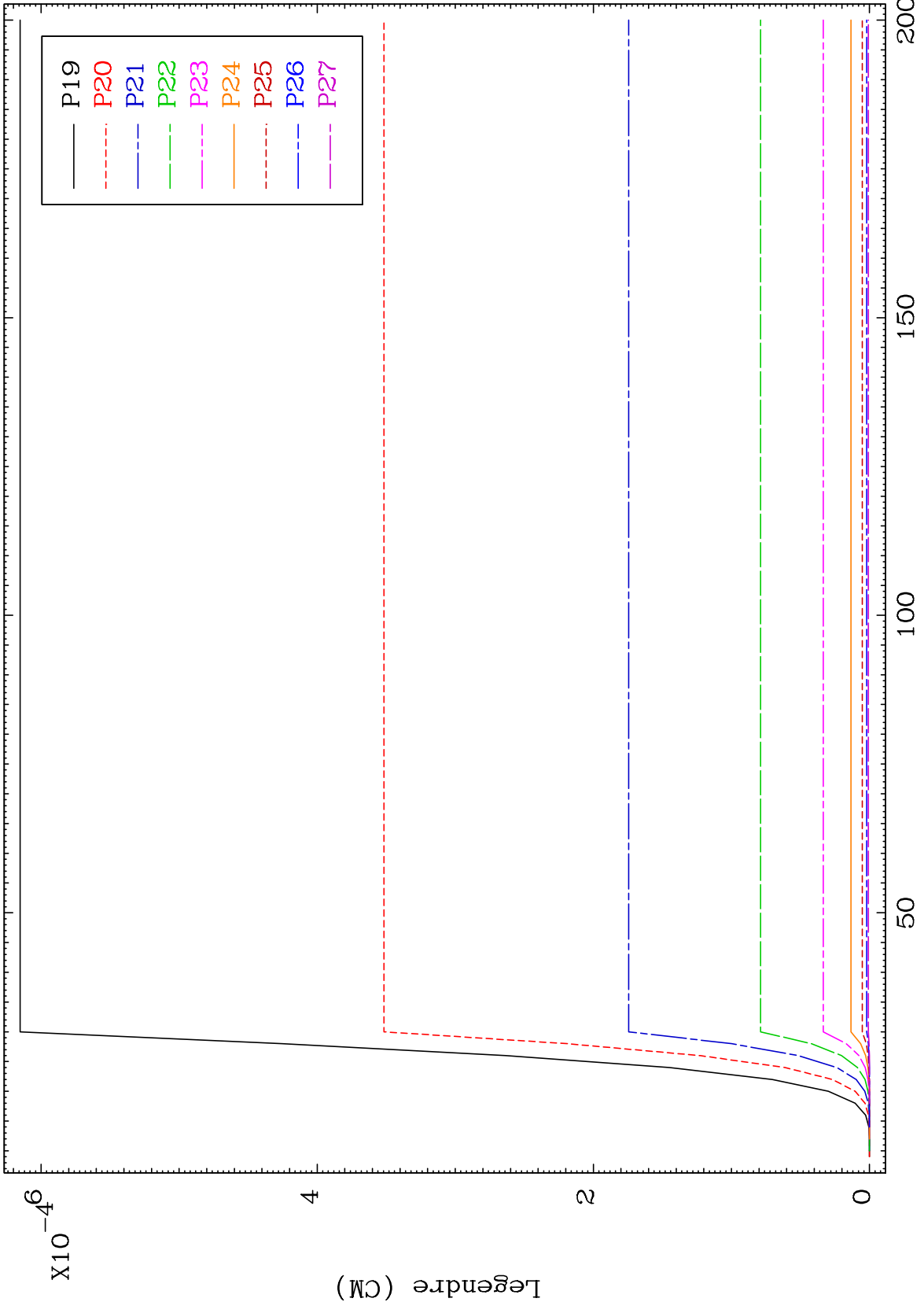
MAT 4022 MT= 61 (n,n') Level Legendre Coefficients 40-Zr-89



54 Incident Energy (MeV) 40-Zr-89

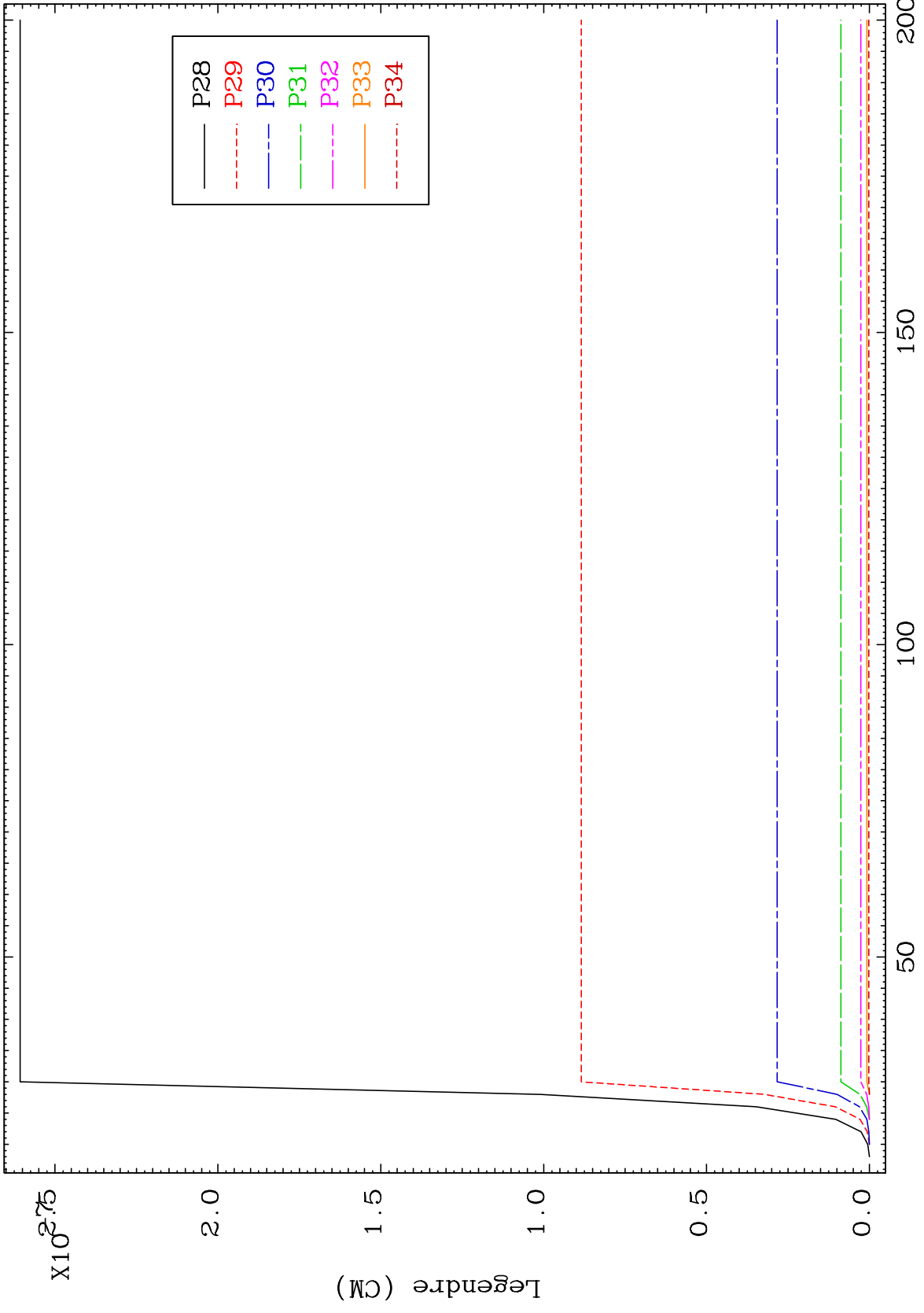


MAT 4022 MT= 61 (n,n') Level Legendre Coefficients 40-Zr-89



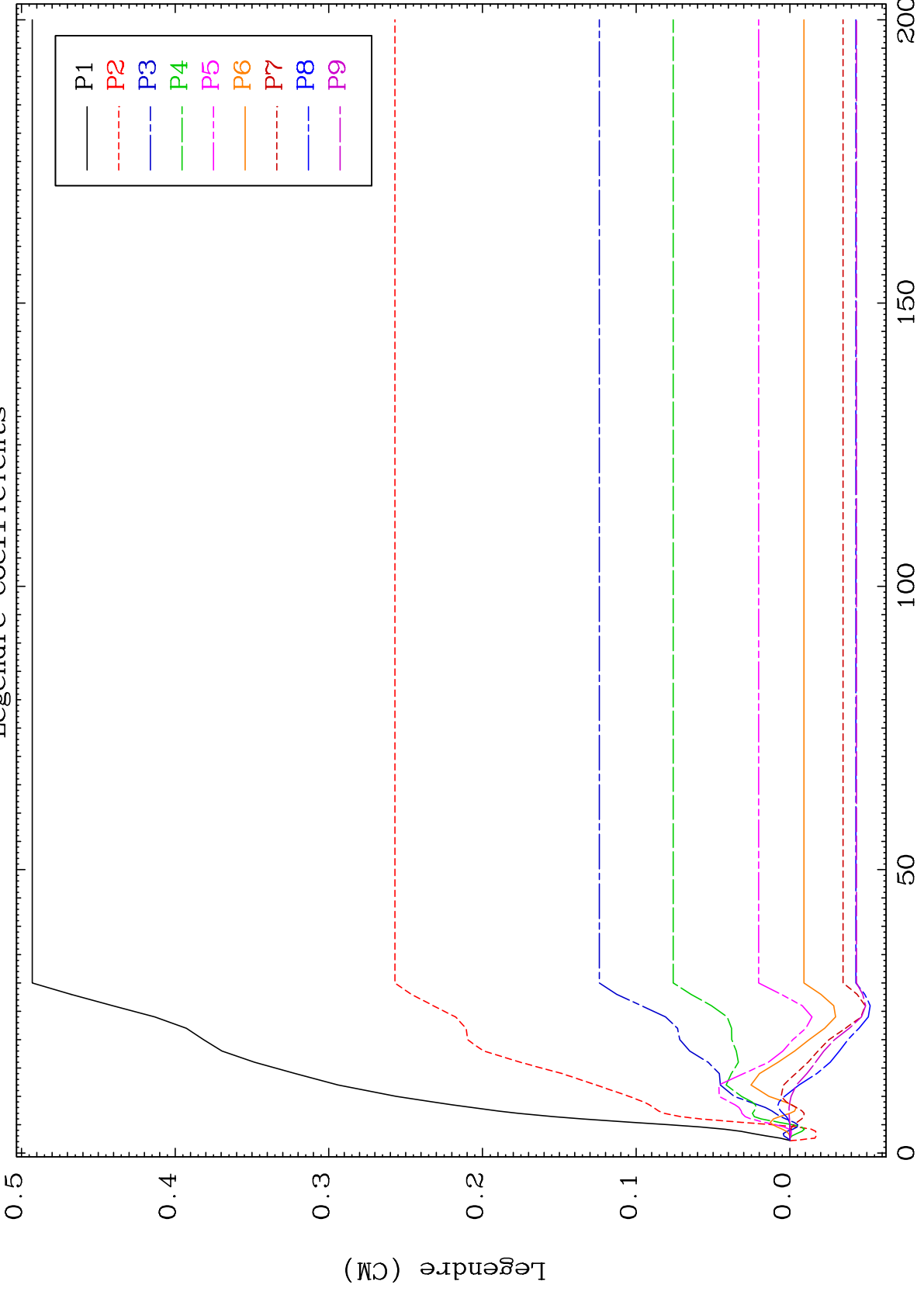
56 Incident Energy (MeV) 40-Zr-89

MAT 4022 MT= 61 (n,n') Level Legendre Coefficients 40-Zr-89



57 100 150 200 40-Zr-89

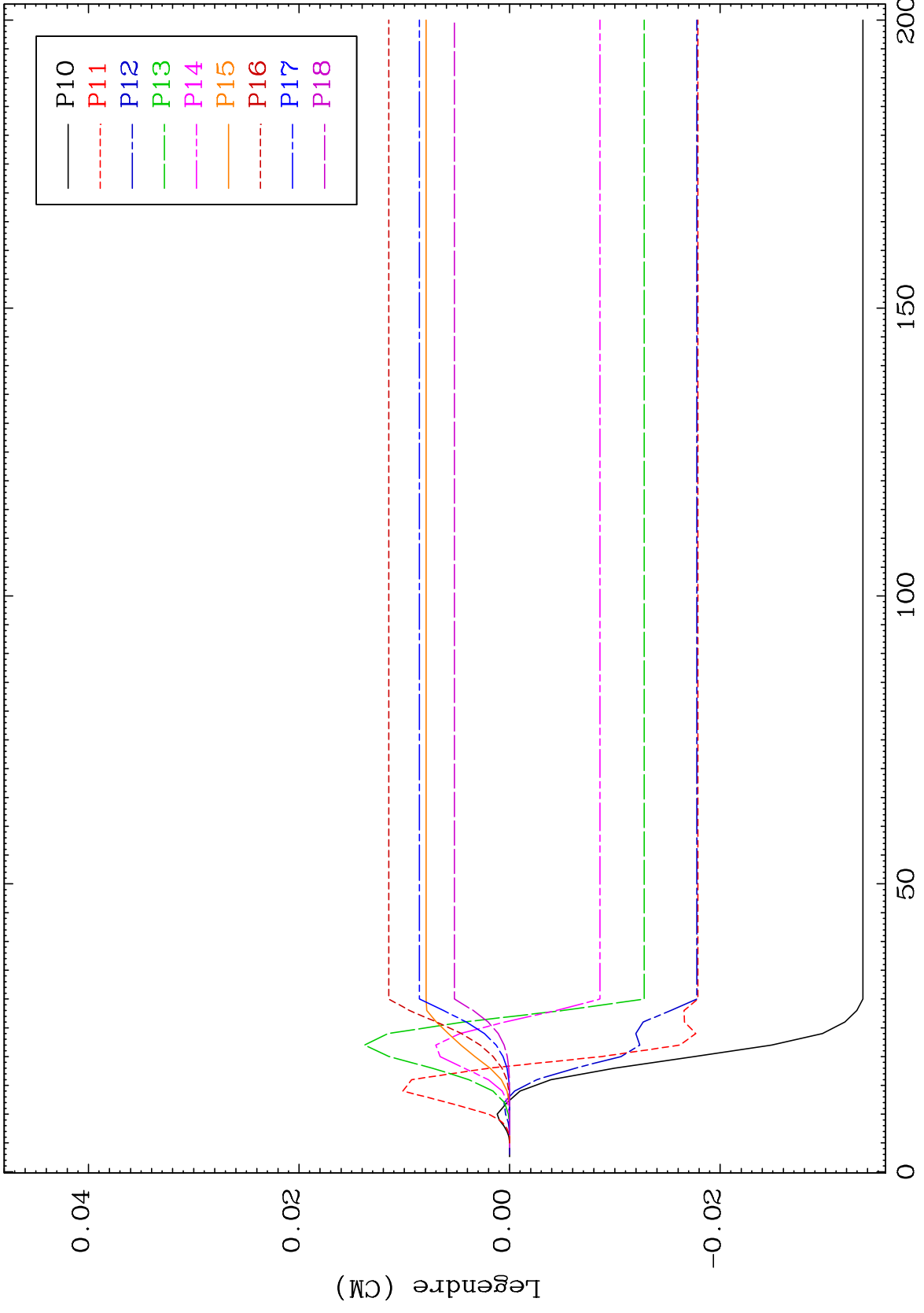
MAT 4022 MT= 62 (n,n') Level Legendre Coefficients 40-Zr-89



MAT 4022

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

40-Zr-89

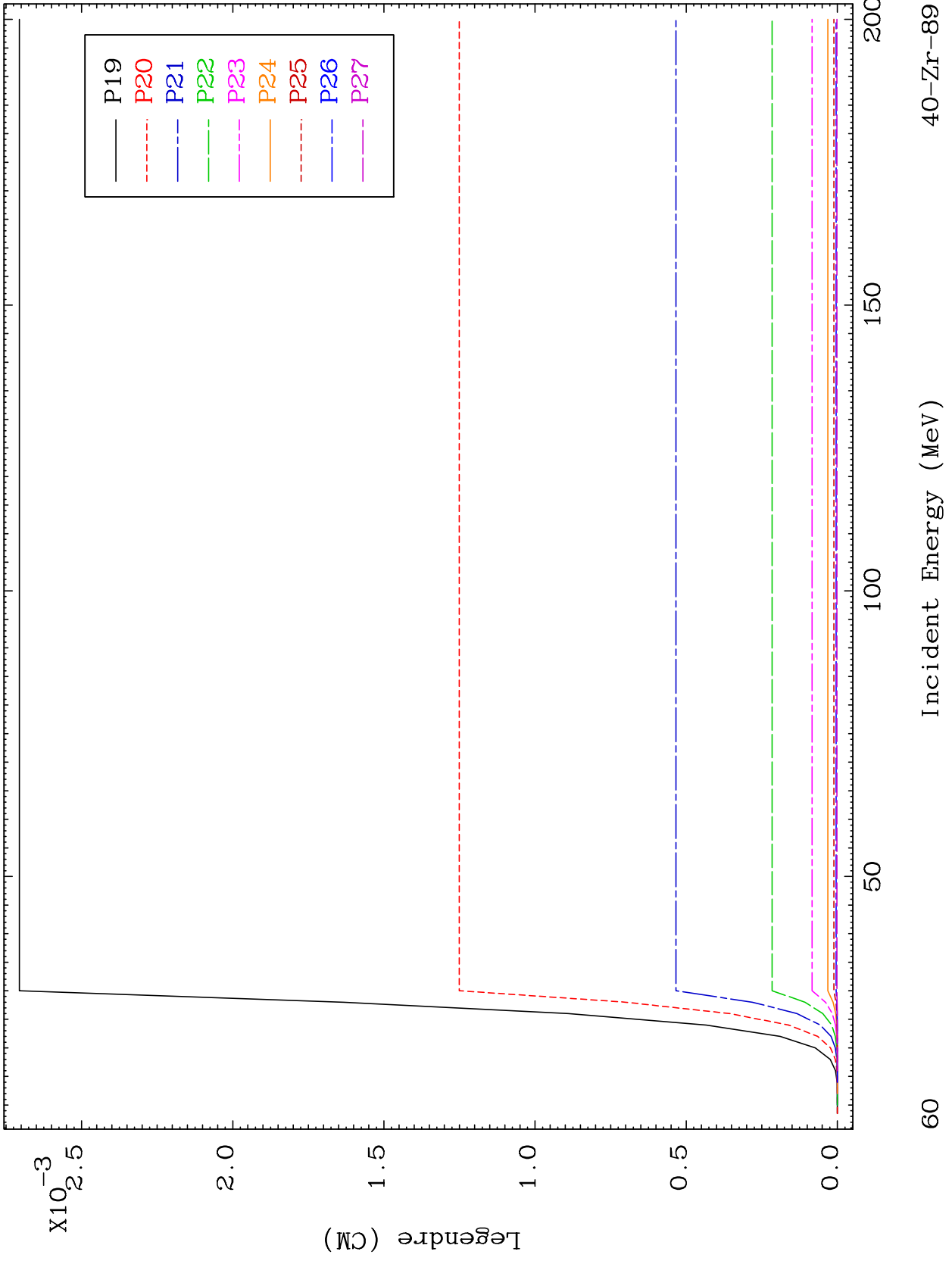


59

Incident Energy (MeV)

40-Zr-89

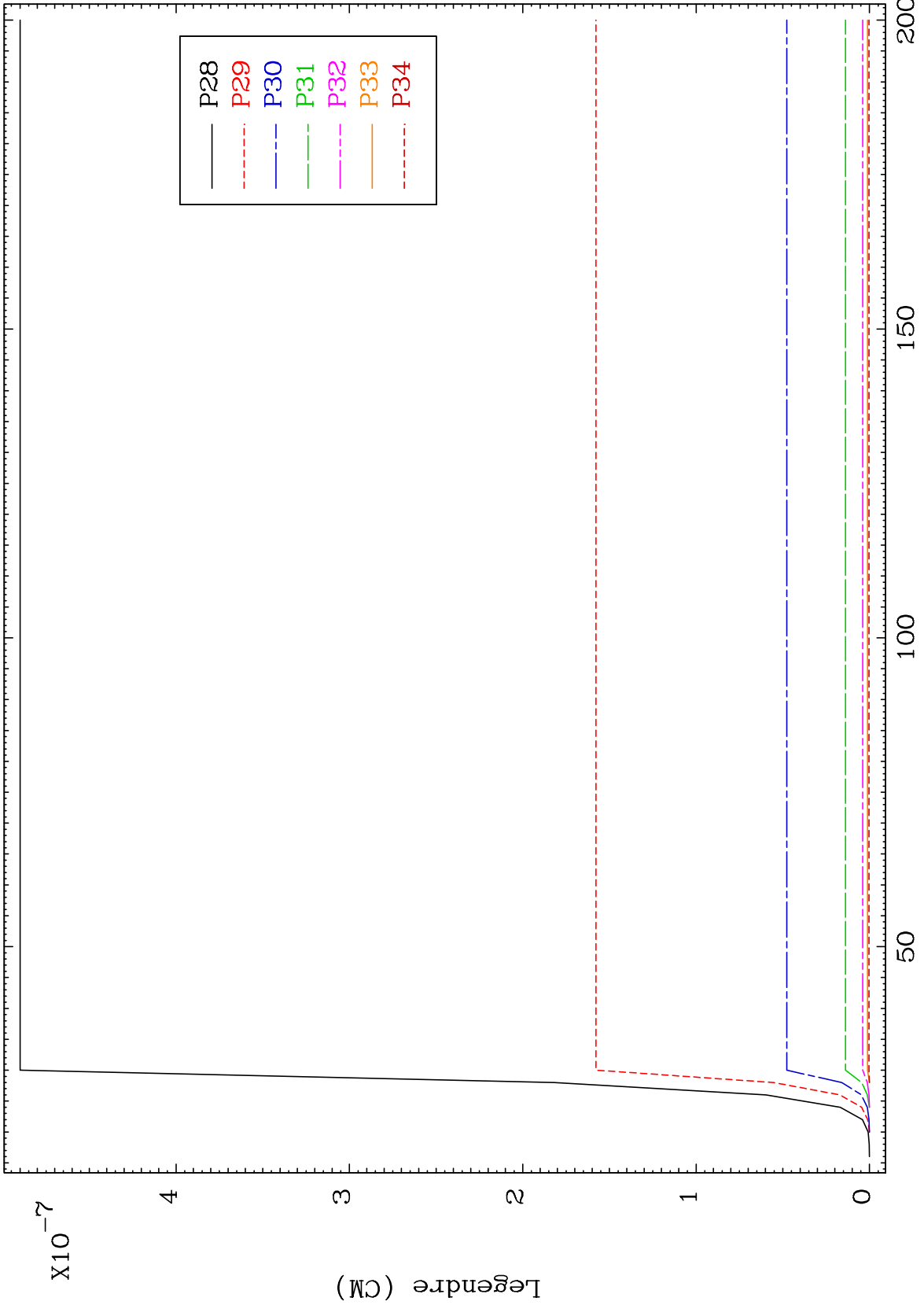
MAT 4022 MT= 62 (n,n') Level Legendre Coefficients 40-Zr-89



MAT 4022

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

40-Zr-89

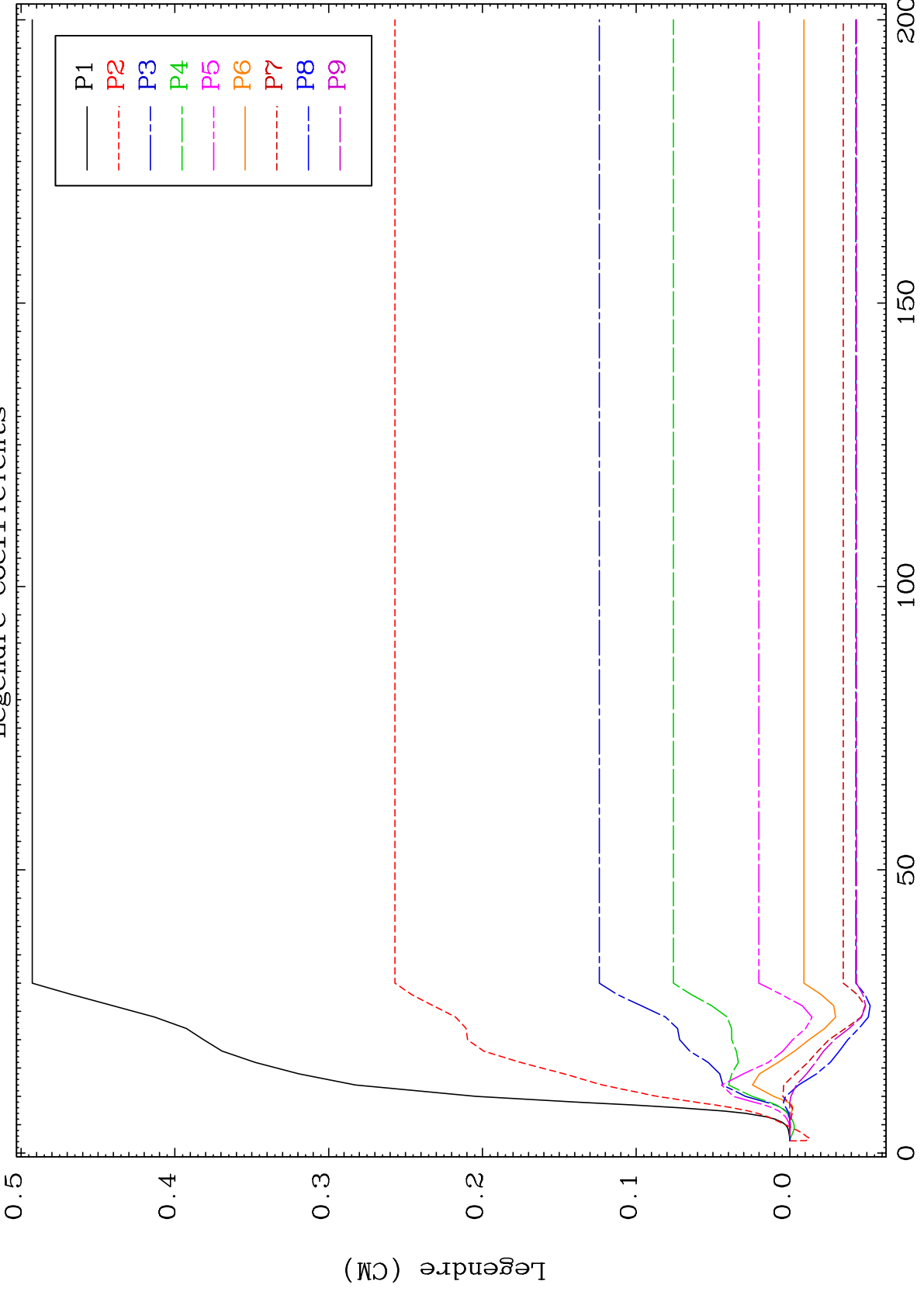


61

Incident Energy (MeV)

40-Zr-89

MAT 4022 MT= 63 (n,n') Level Legendre Coefficients 40-Zr-89

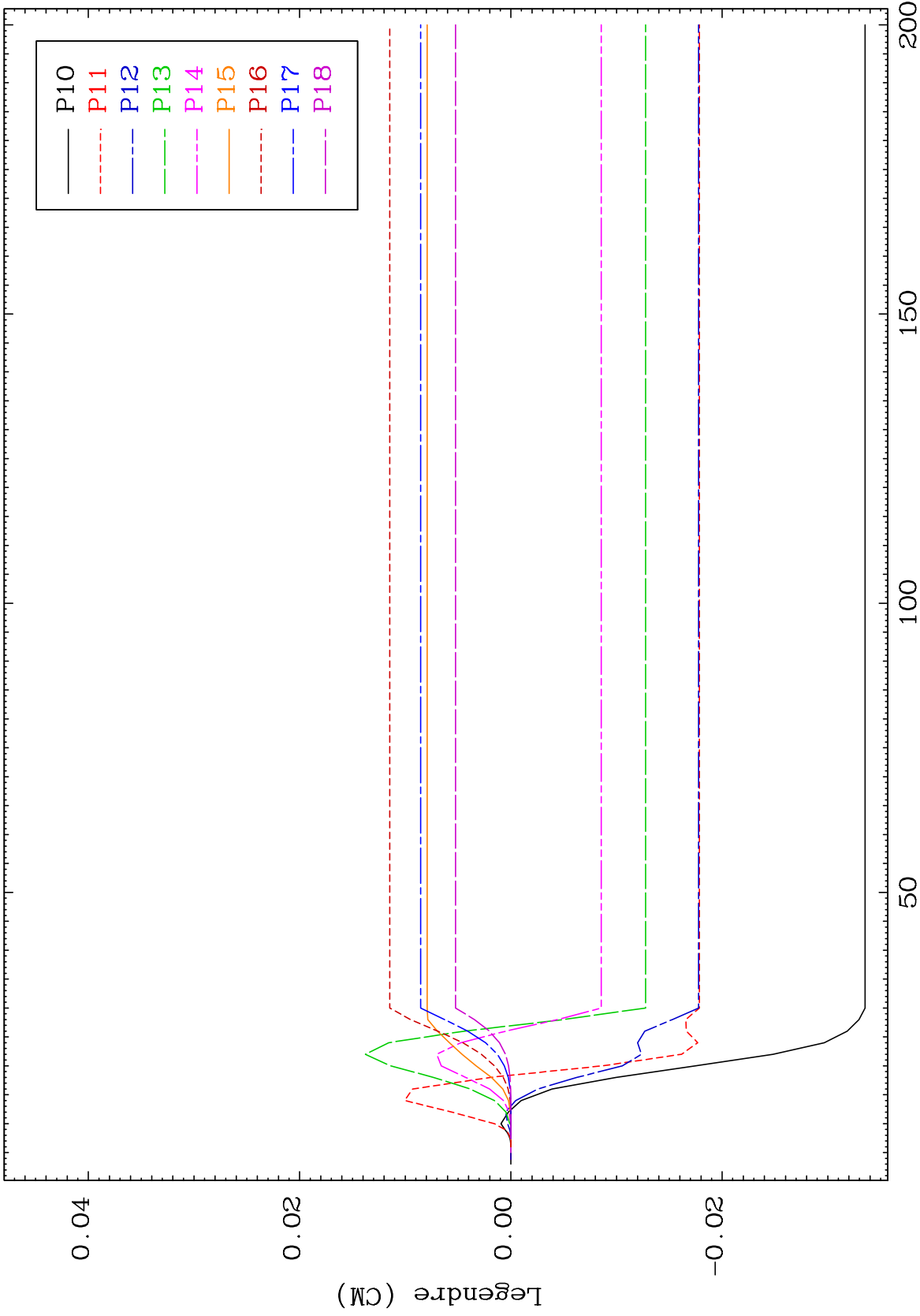


62 Incident Energy (MeV) 40-Zr-89

MAT 4022

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

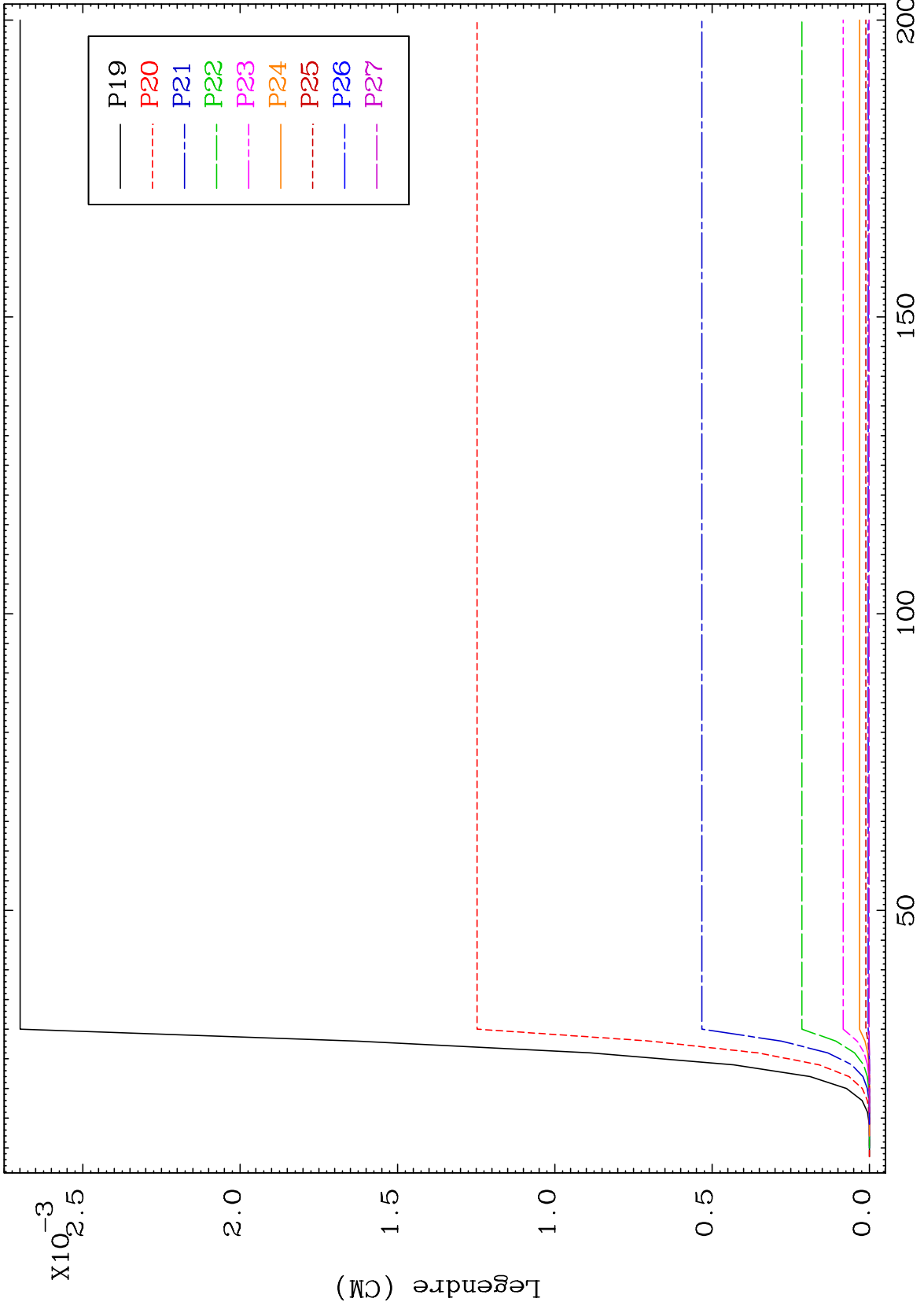
40-Zr-89



63

Incident Energy (MeV)

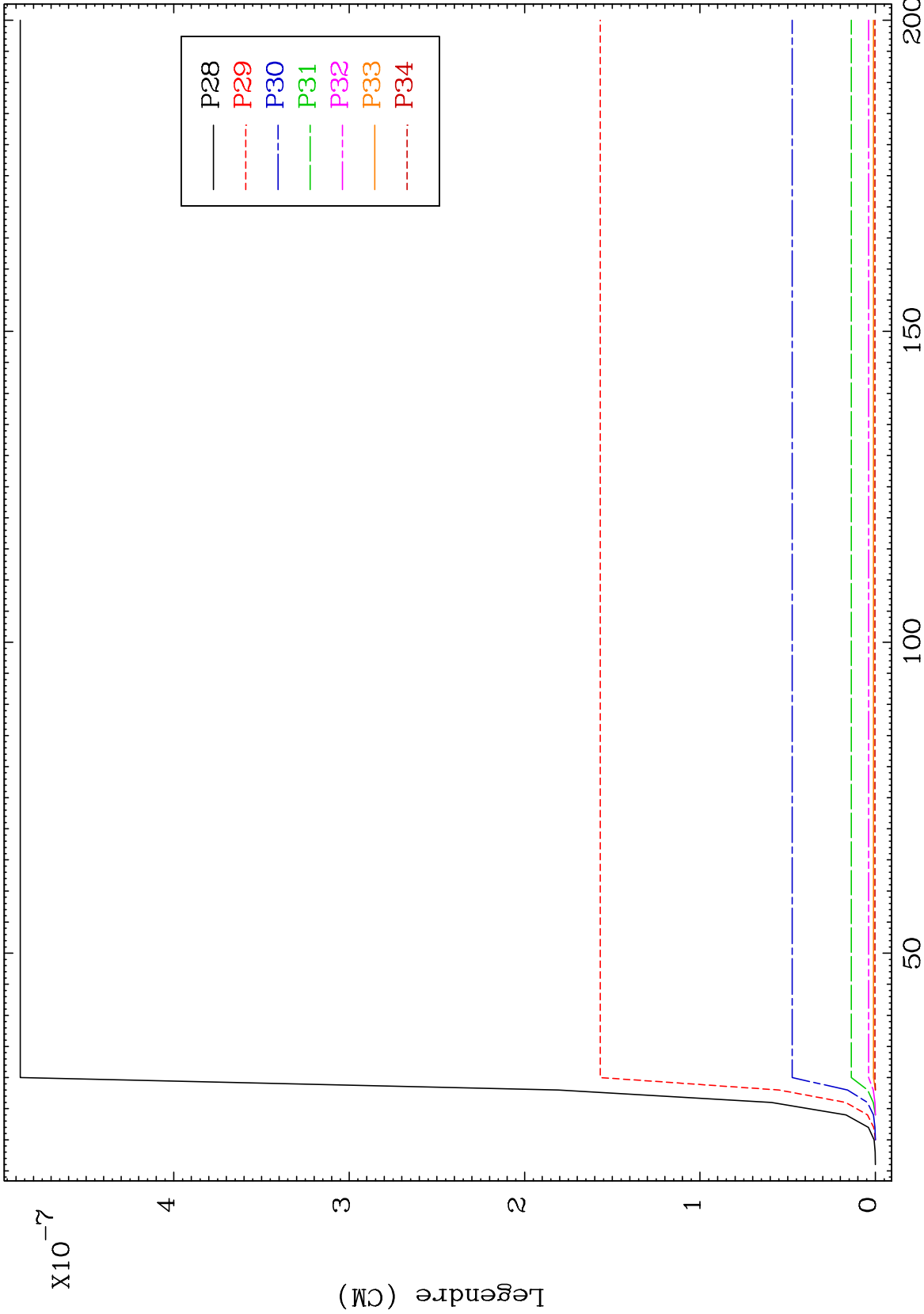
40-Zr-89



MAT 4022

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

40-Zr-89

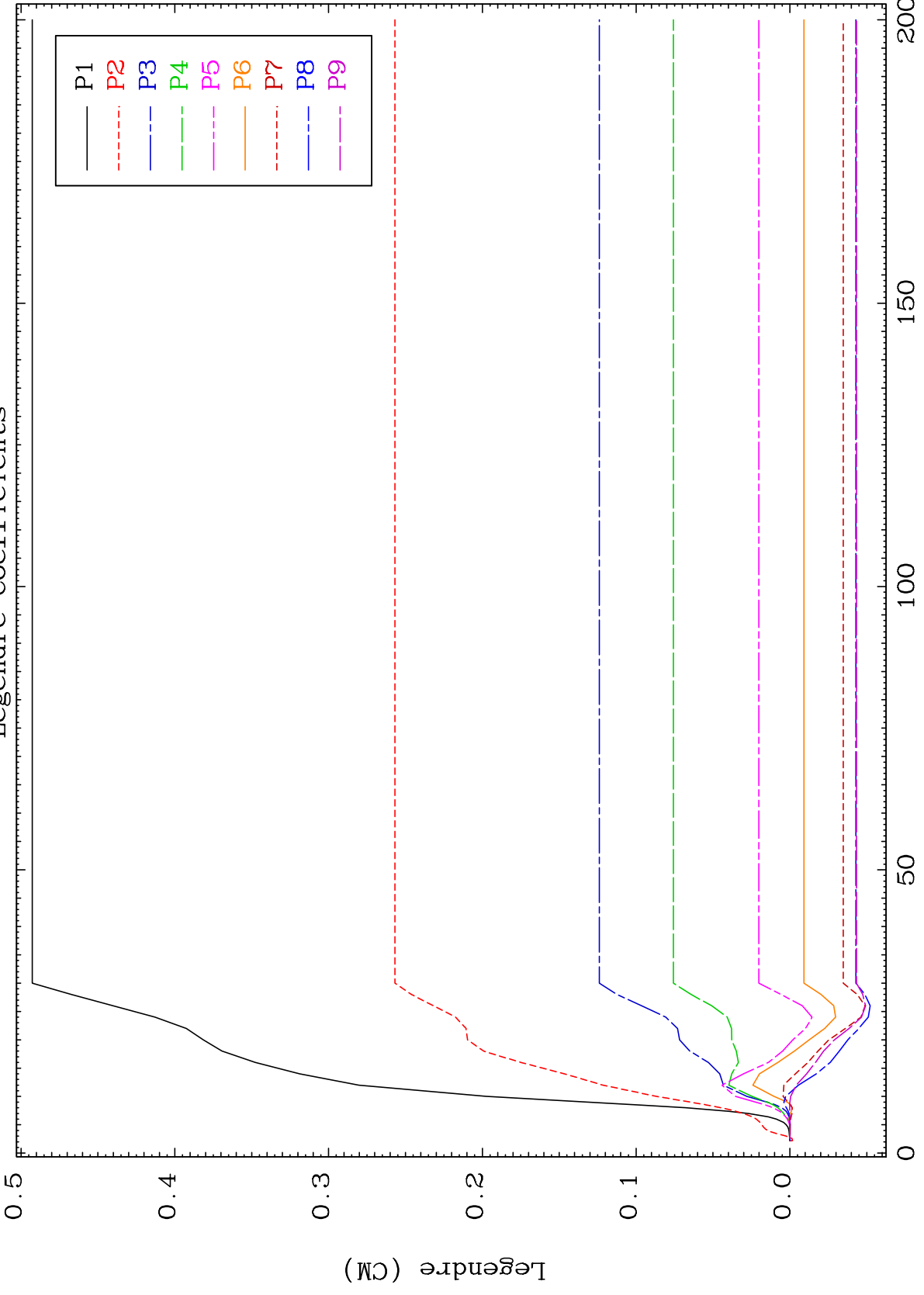


65

Incident Energy (MeV)

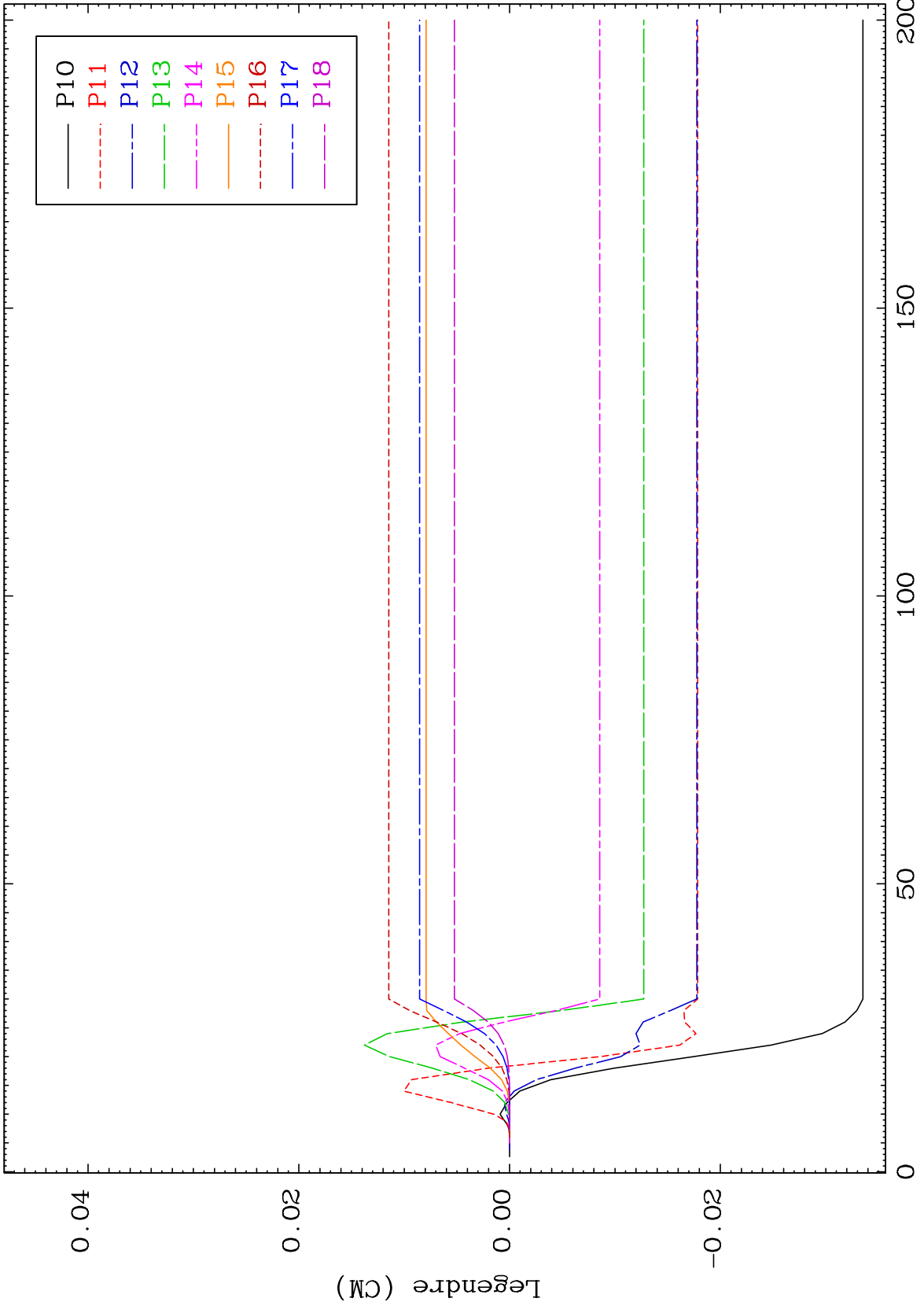
40-Zr-89

MAT 4022 MT= 64 (n,n') Level Legendre Coefficients 40-Zr-89



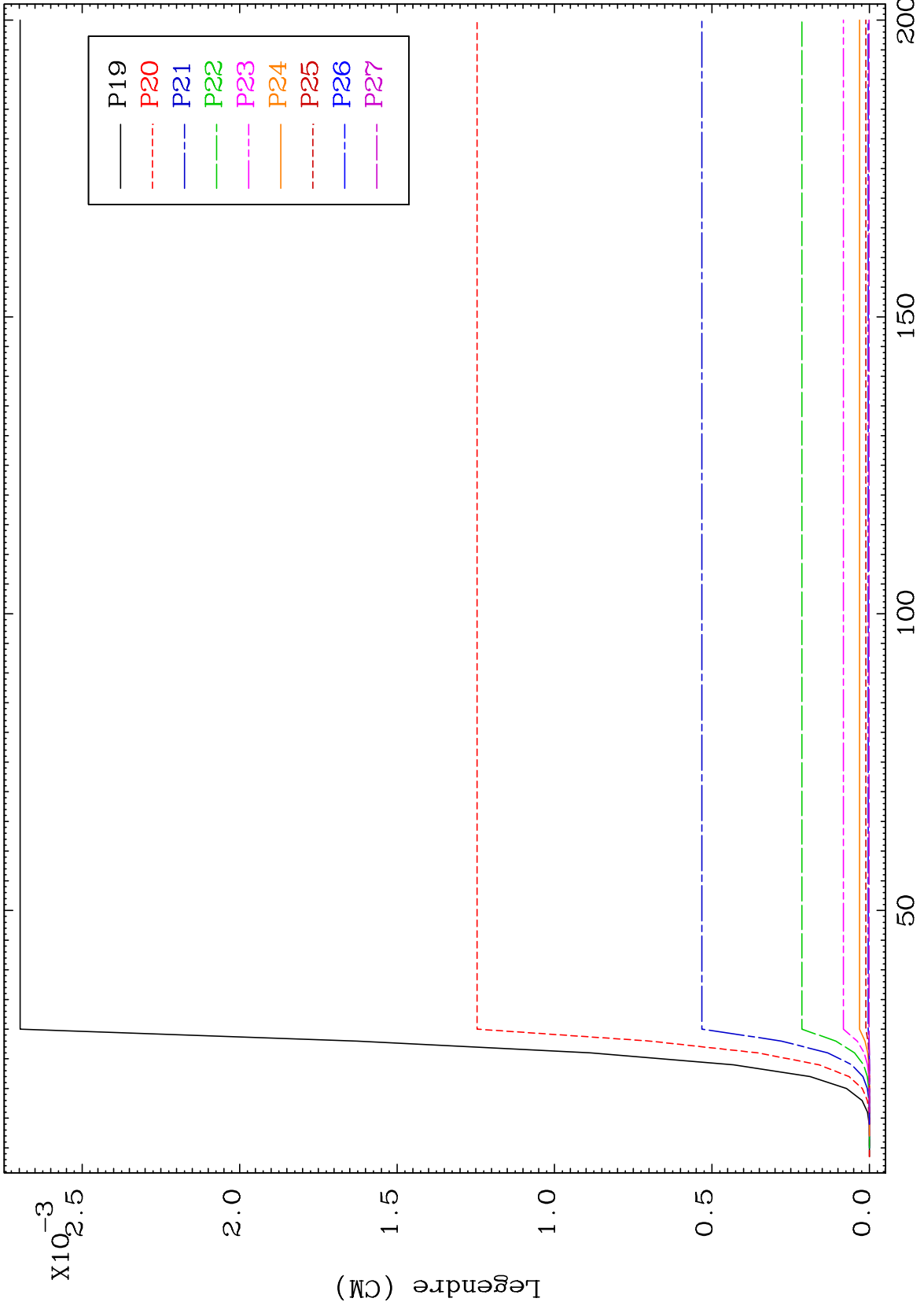
66 Incident Energy (MeV) 40-Zr-89

MAT 4022 MT= 64 (n,n') Level Legendre Coefficients 40-Zr-89



67 40-Zr-89

MAT 4022 MT= 64 (n,n') Level Legendre Coefficients 40-Zr-89

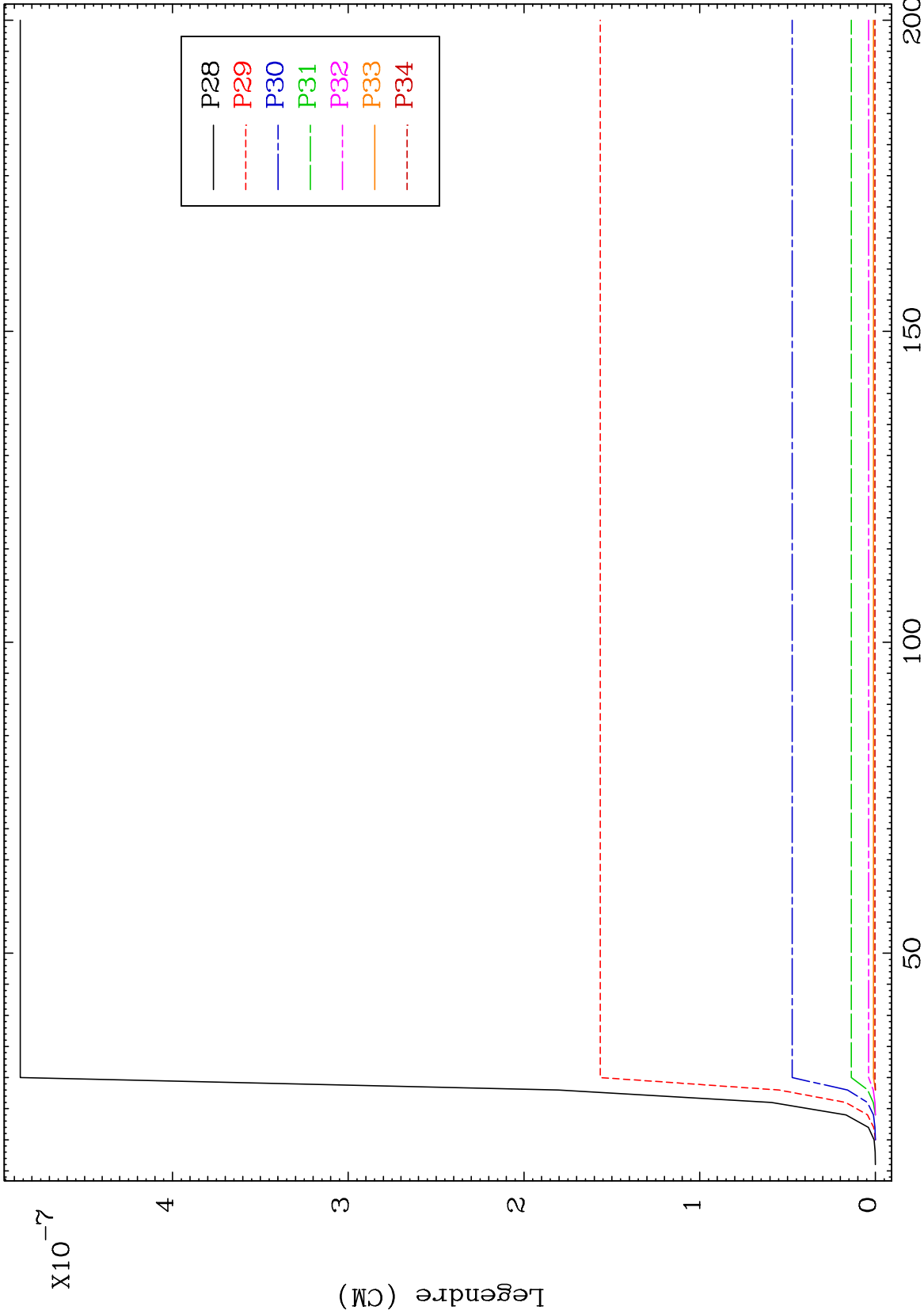


68 40-Zr-89

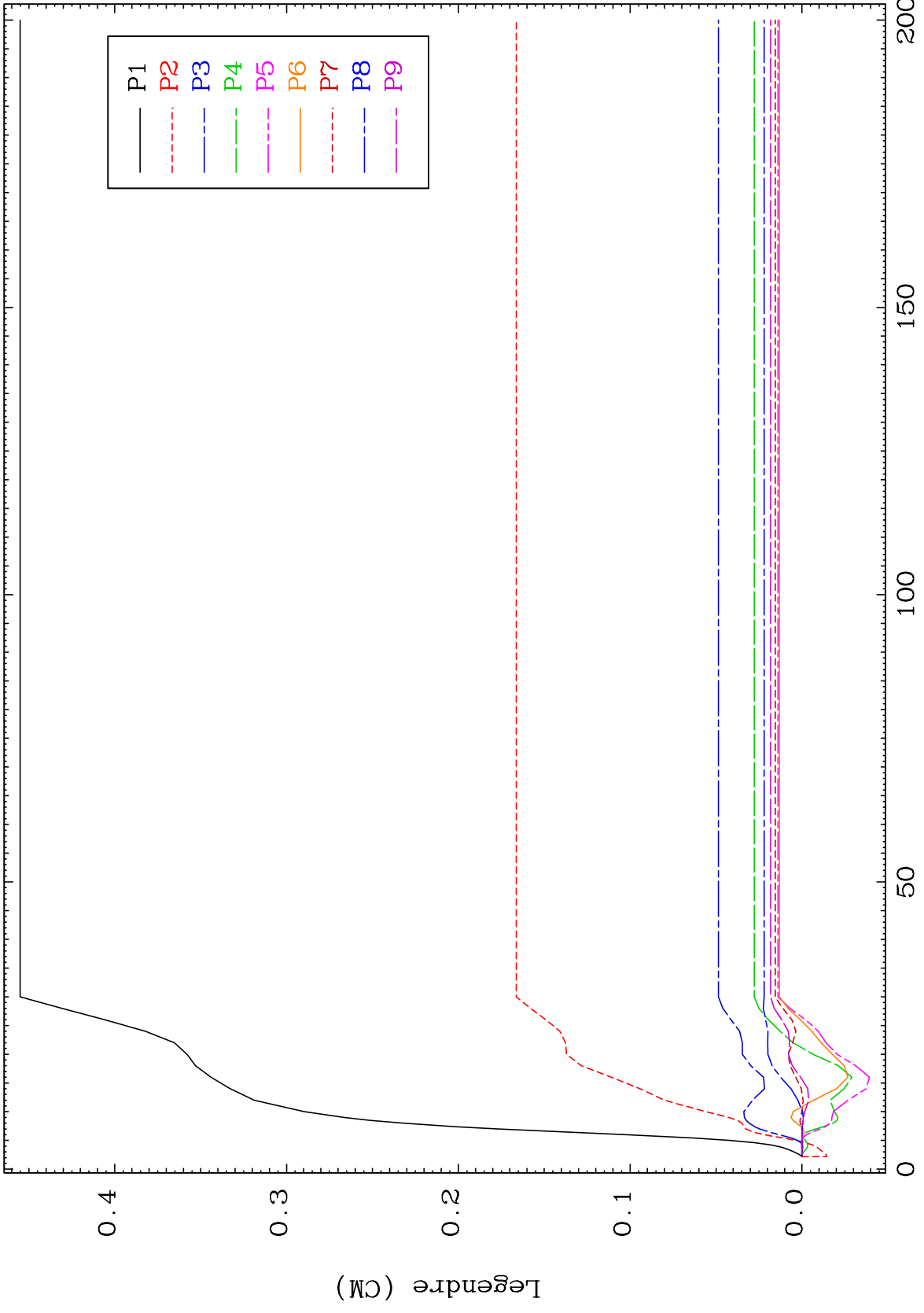
MAT 4022

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

40-Zr-89



MAT 4022 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-89



Legendre (CM) Incident Energy (MeV) 40-Zr-89

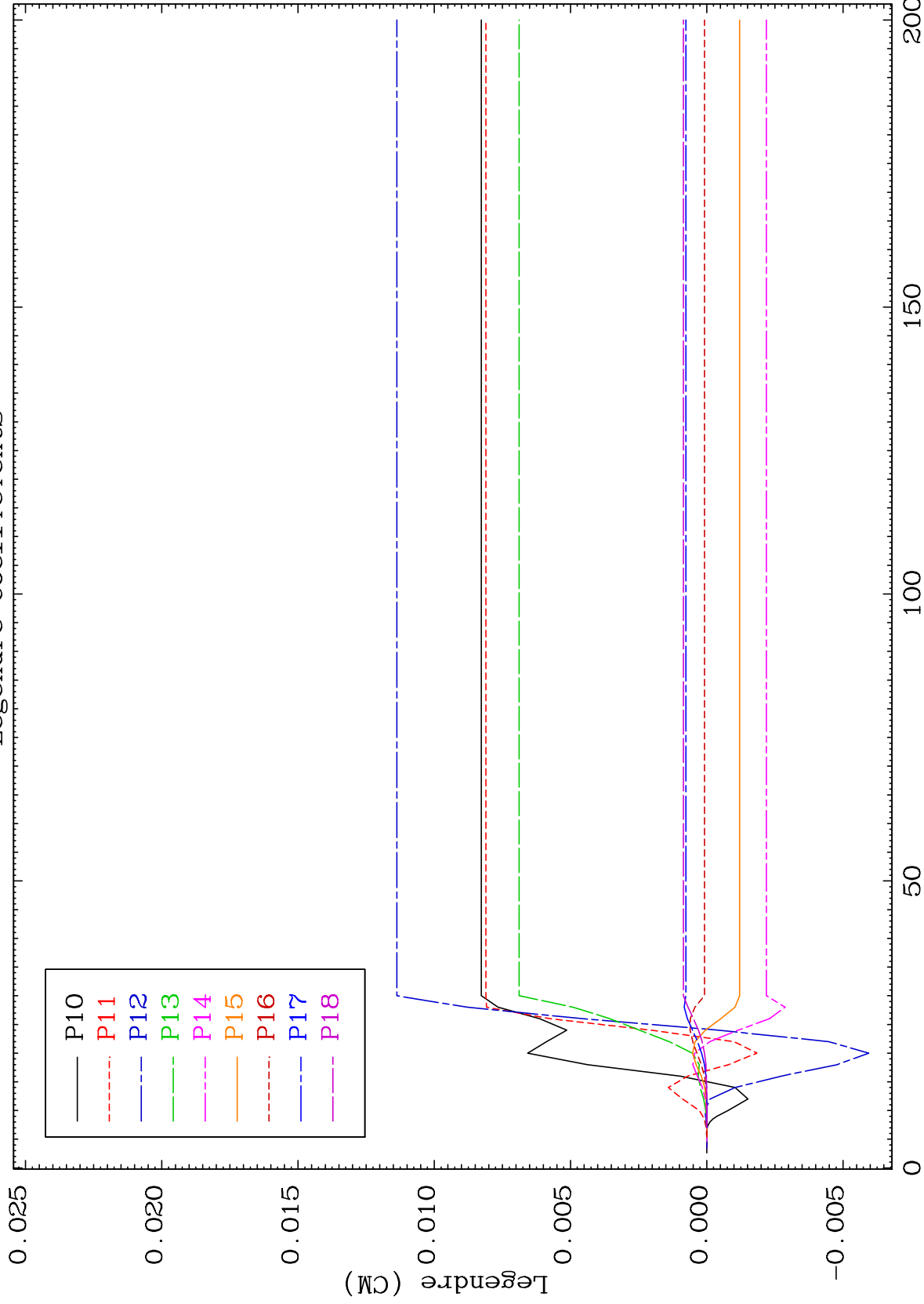
MAT 4022 MT= 65 (n,n') Level Legendre Coefficients

40-Zr-89

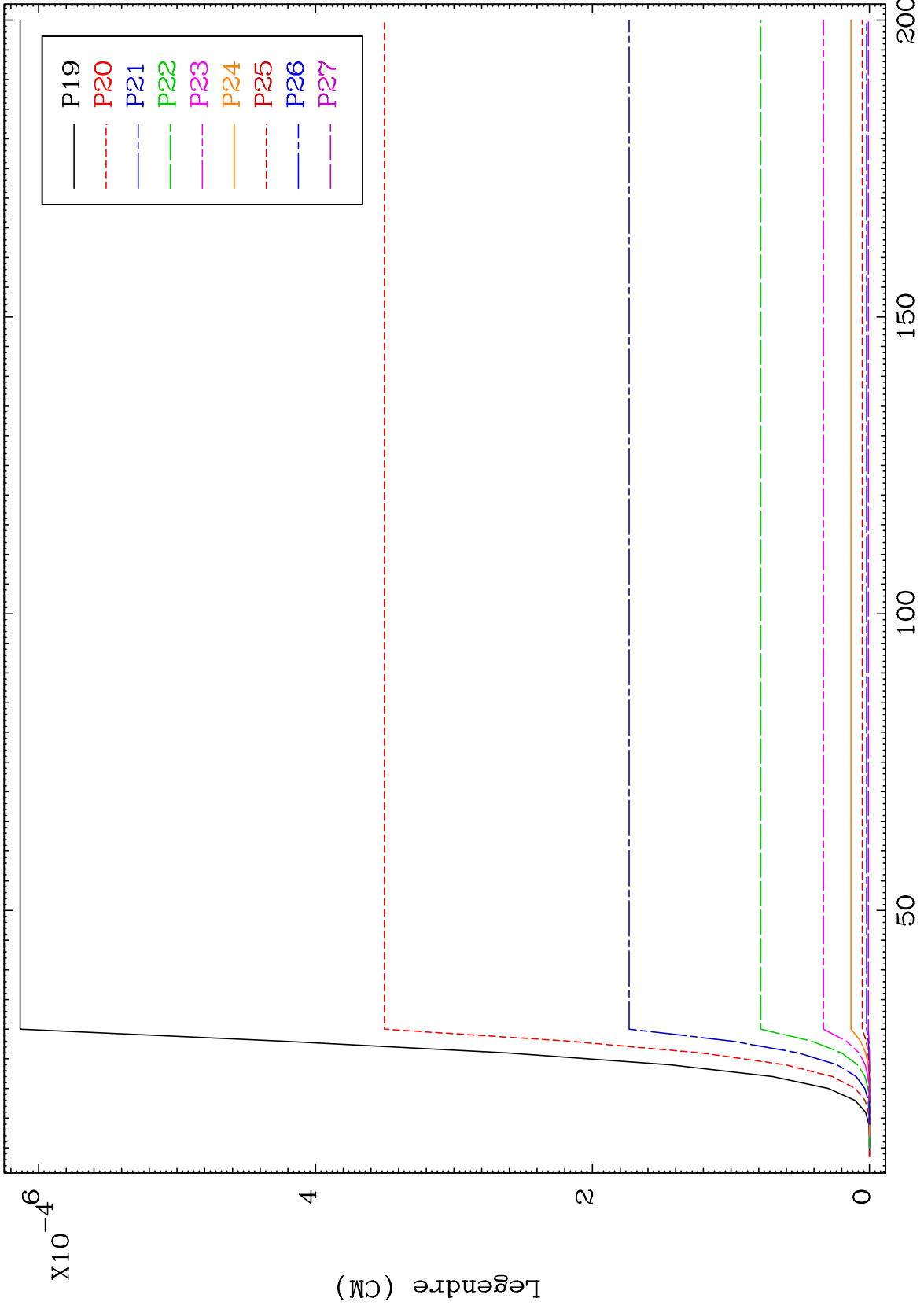
40-Zr-89

Incident Energy (MeV)

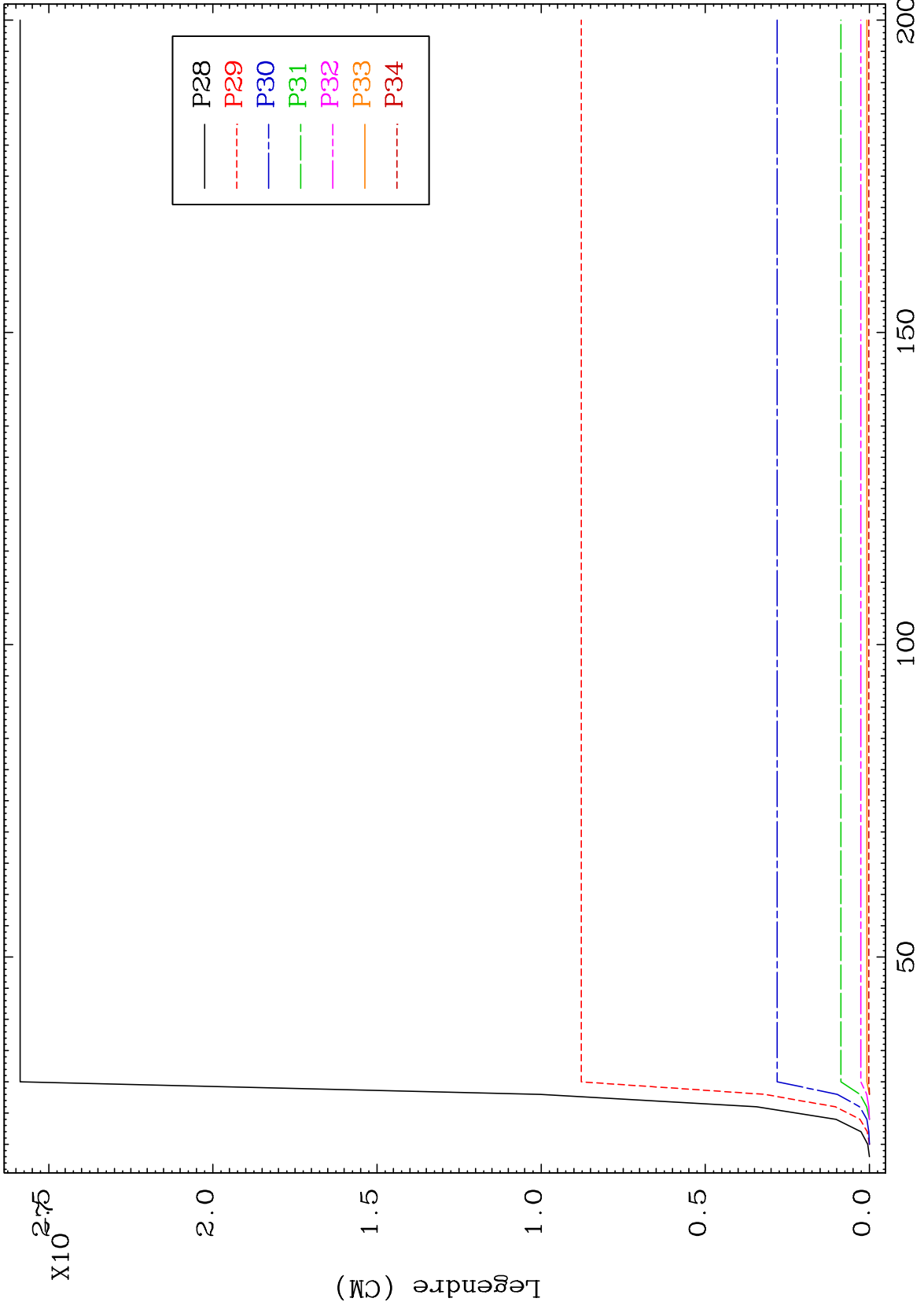
71



MAT 4022 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-89

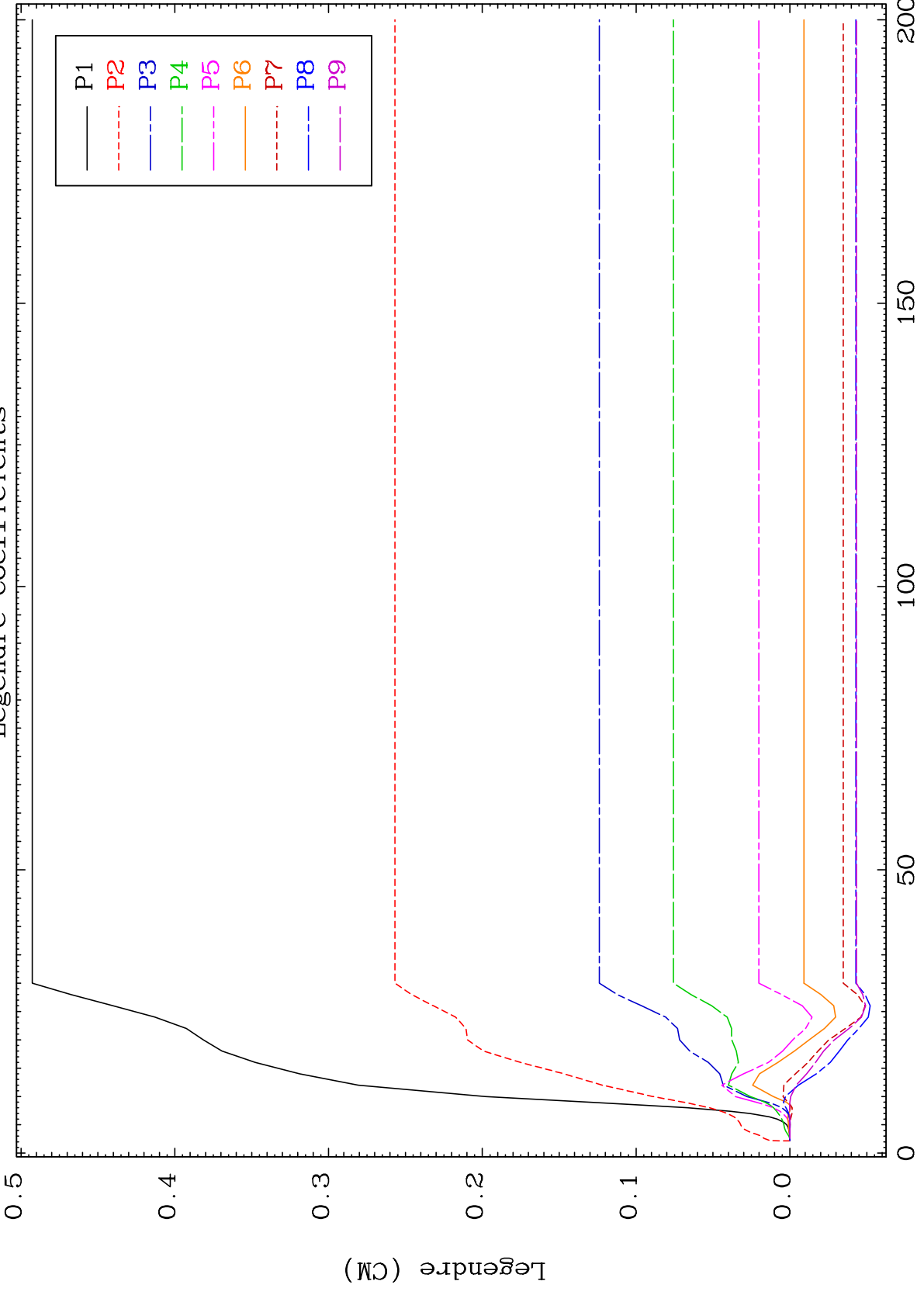


MAT 4022 MT= 65 (n,n') Level Legendre Coefficients 40-Zr-89

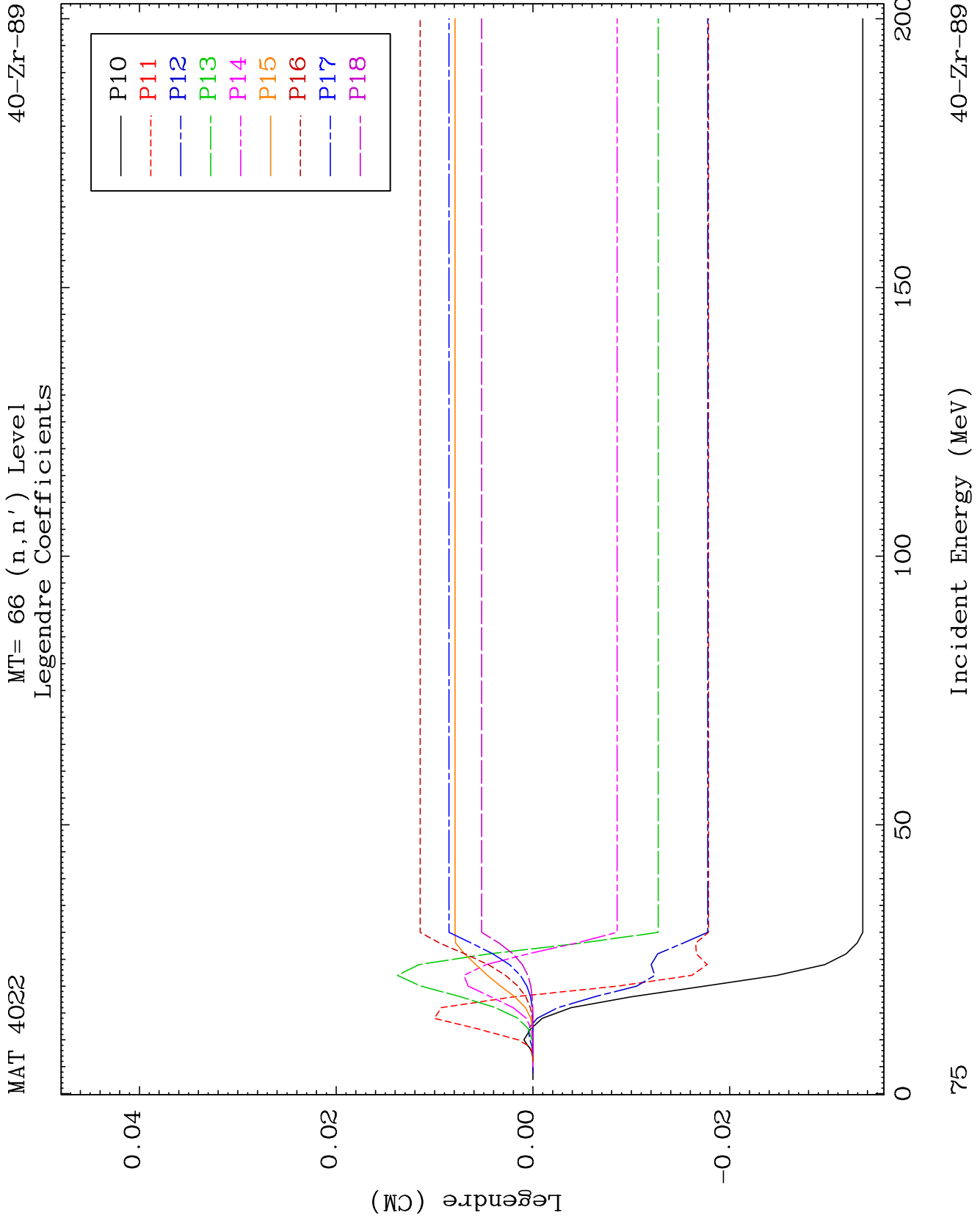


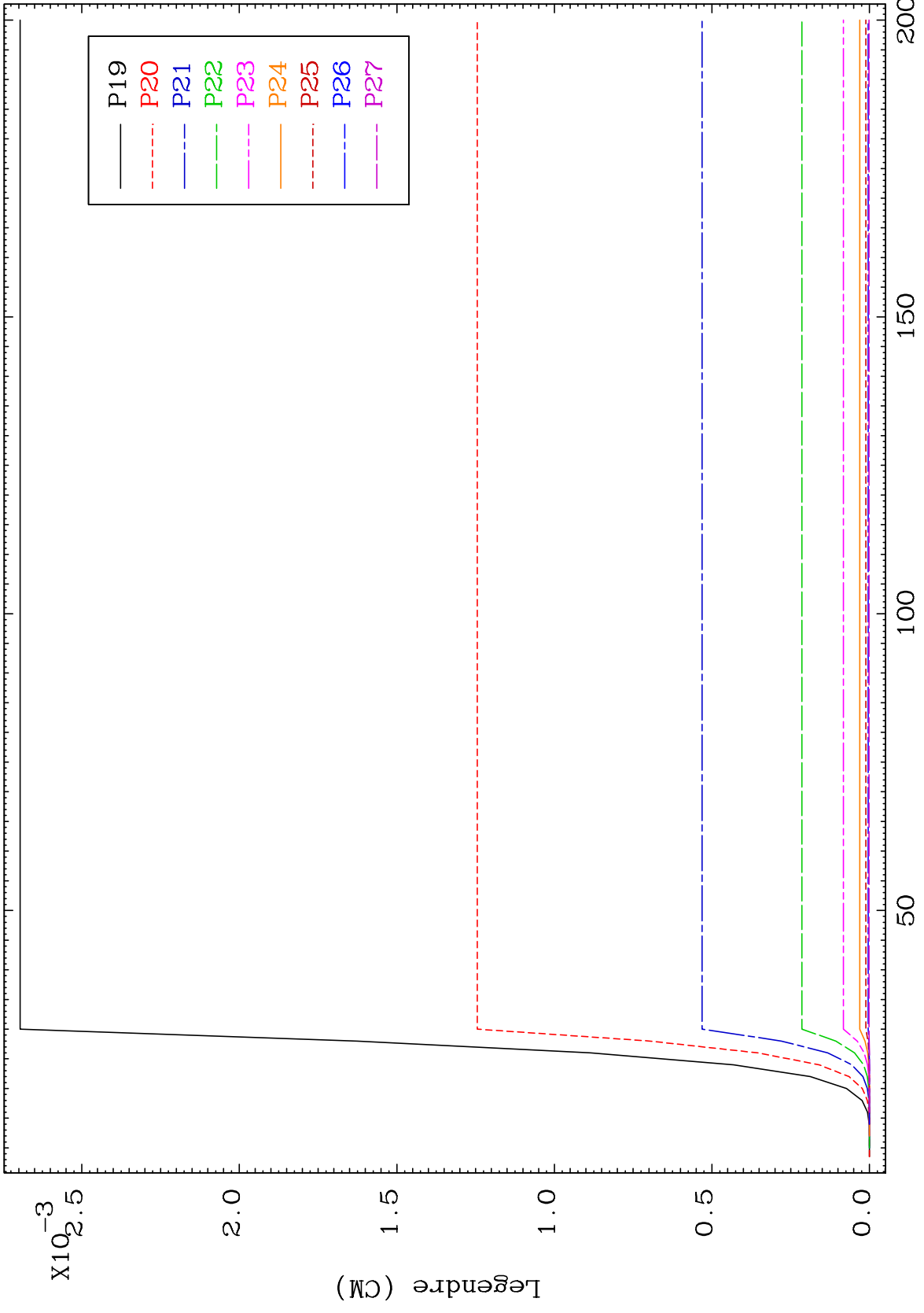
73 40-Zr-89

MAT 4022 MT= 66 (n,n') Level Legendre Coefficients 40-Zr-89

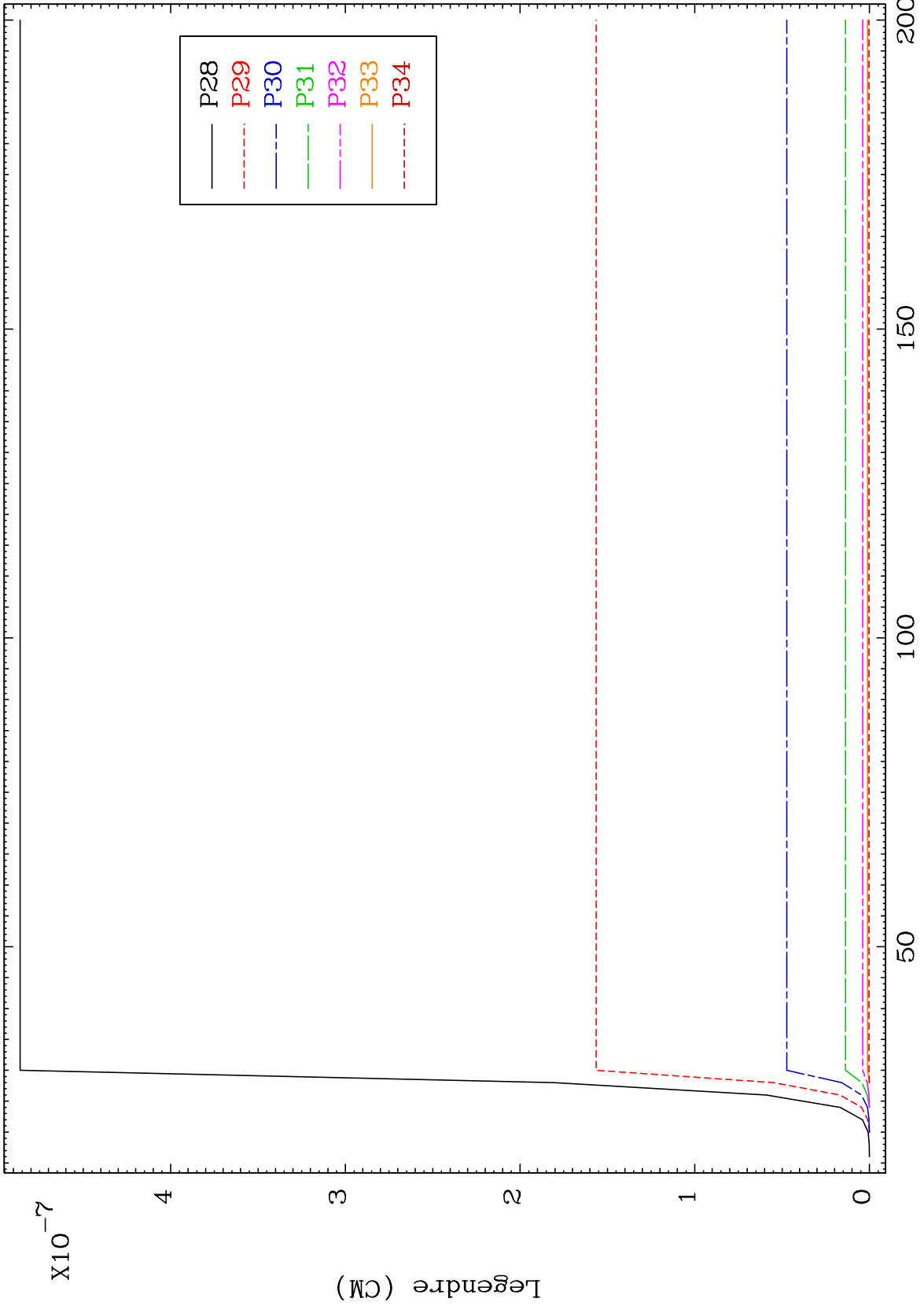


74 40-Zr-89



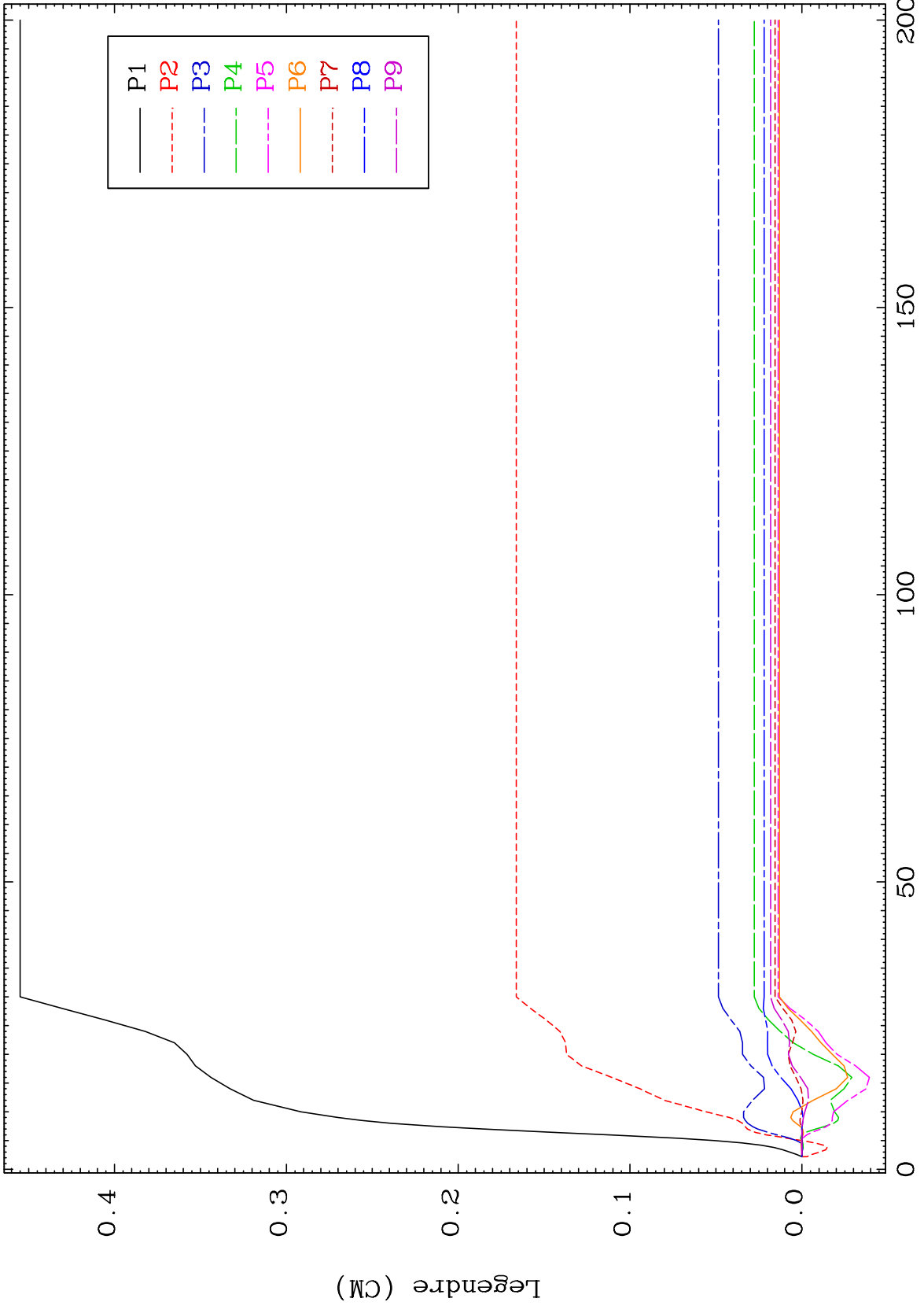


MAT 4022 MT= 66 (n,n') Level Legendre Coefficients 40-Zr-89



77 40-Zr-89

MAT 4022 MT= 67 (n,n') Level Legendre Coefficients 40-Zr-89

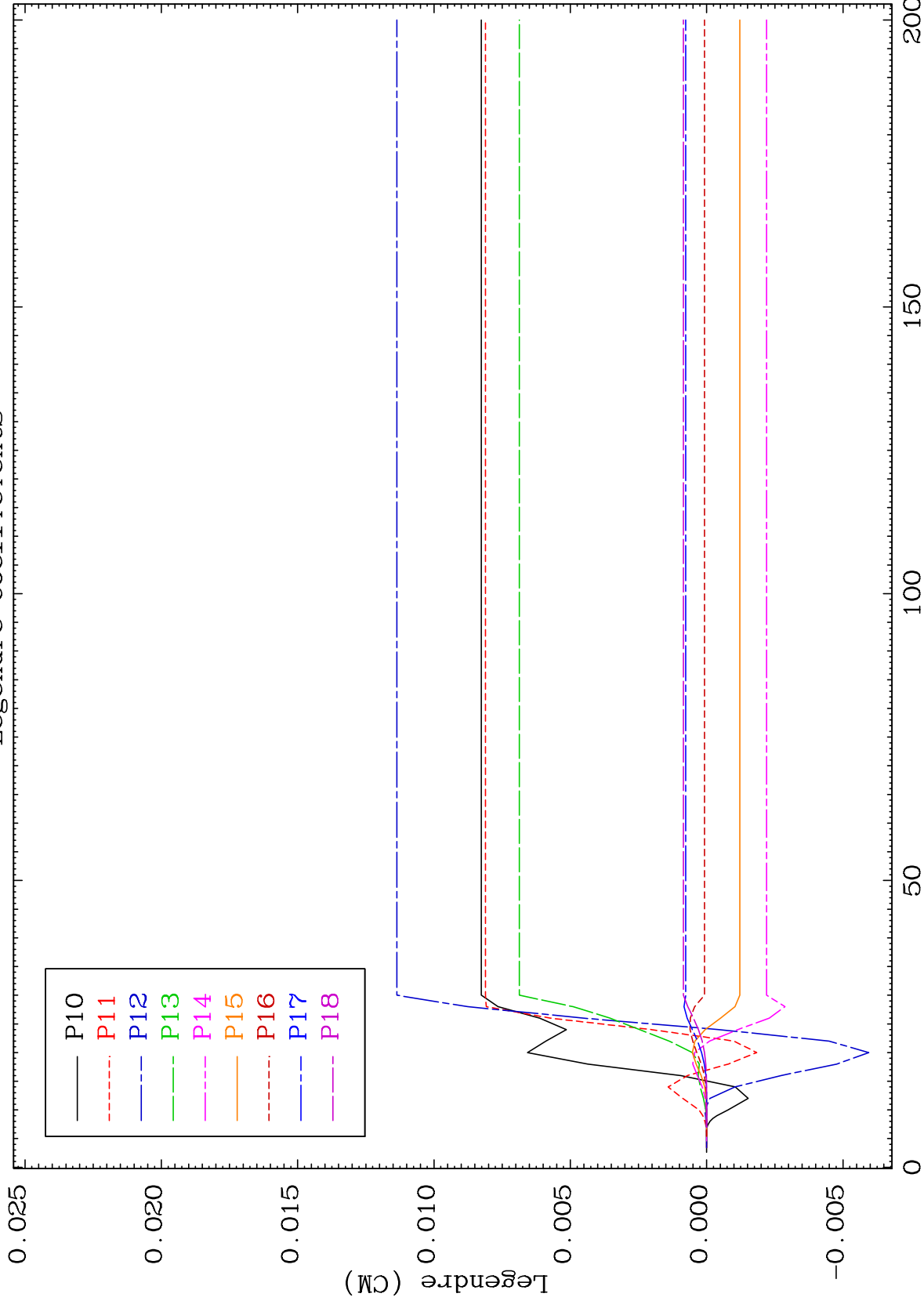


78 Incident Energy (MeV) 40-Zr-89

MAT 4022

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

40-Zr-89

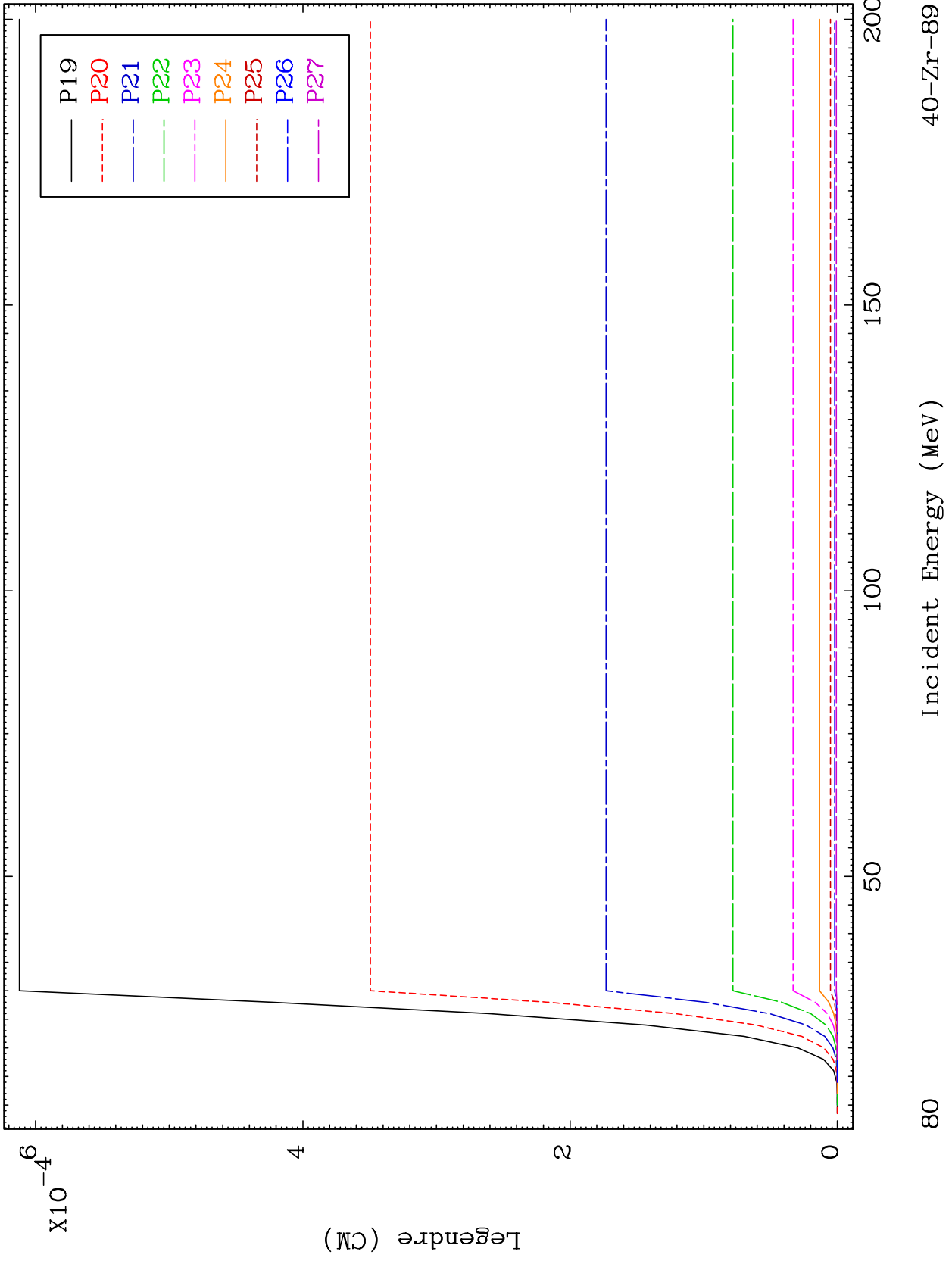


40-Zr-89

Incident Energy (MeV)

79

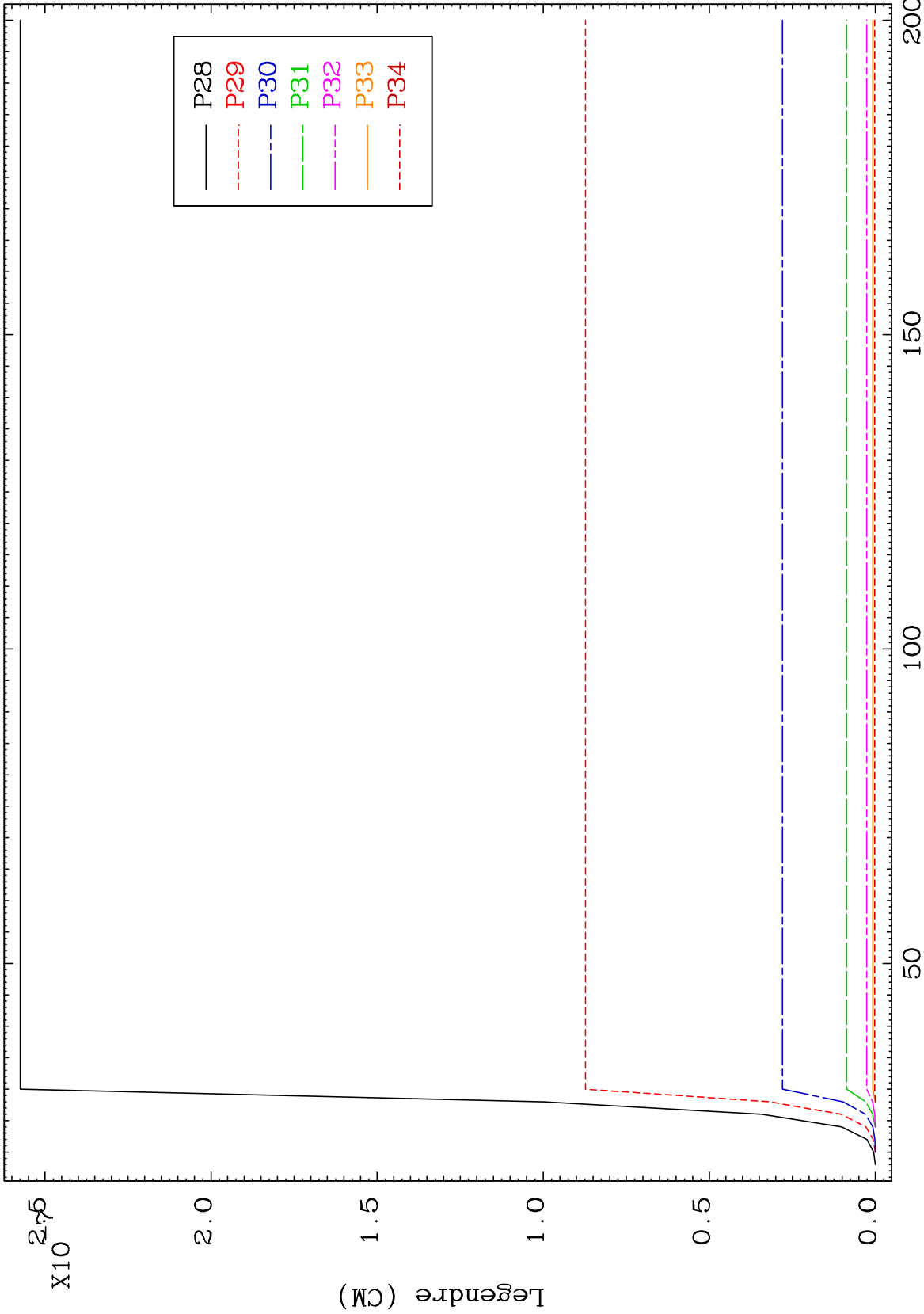
MAT 4022 MT= 67 (n,n') Level Legendre Coefficients 40-Zr-89



MAT 4022

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

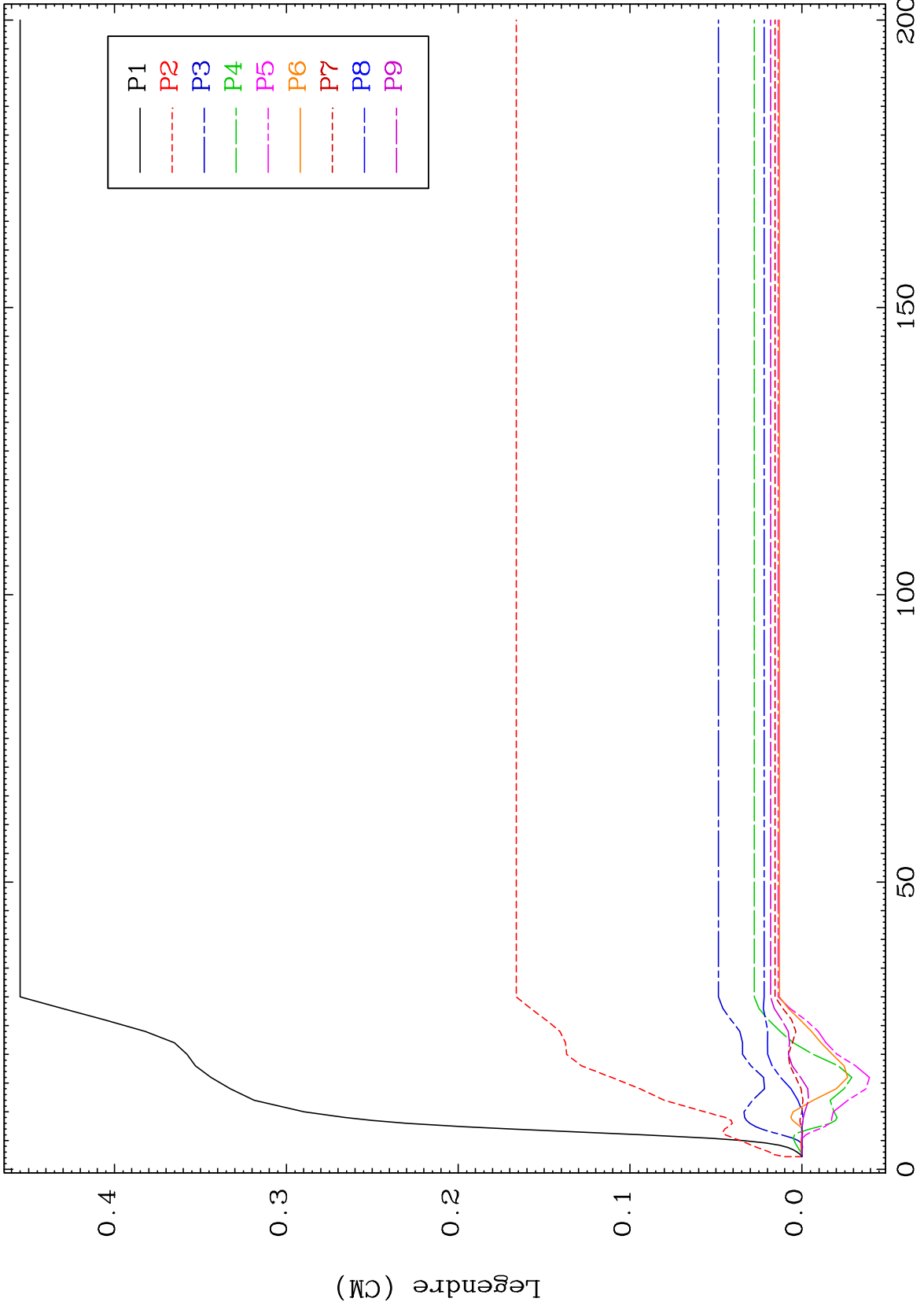
40-Zr-89



81

40-Zr-89

MAT 4022 MT= 68 (n,n') Level Legendre Coefficients 40-Zr-89

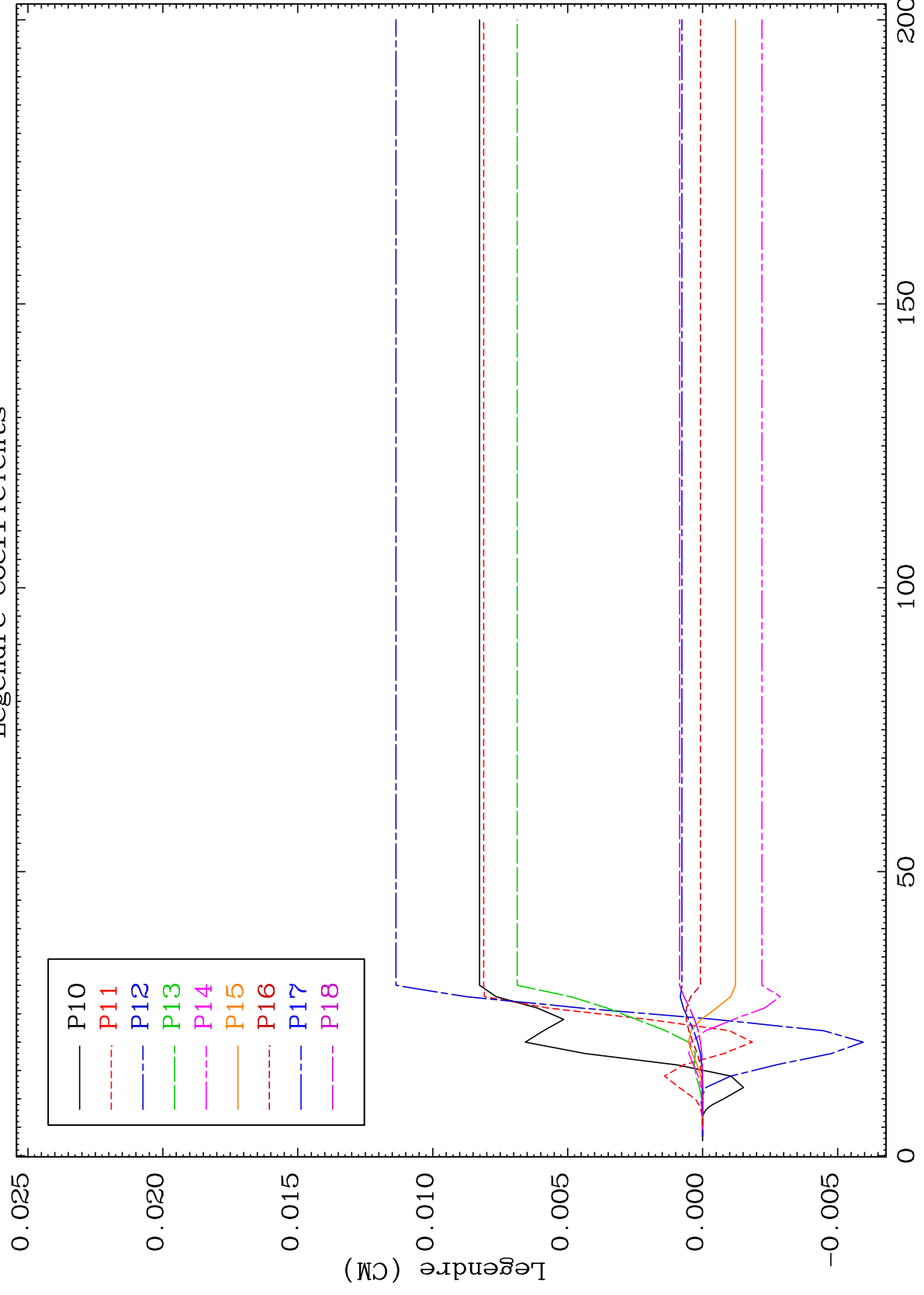


82 Incident Energy (MeV) 40-Zr-89

MAT 4022 MT= 68 (n,n') Level Legendre Coefficients

40-Zr-89

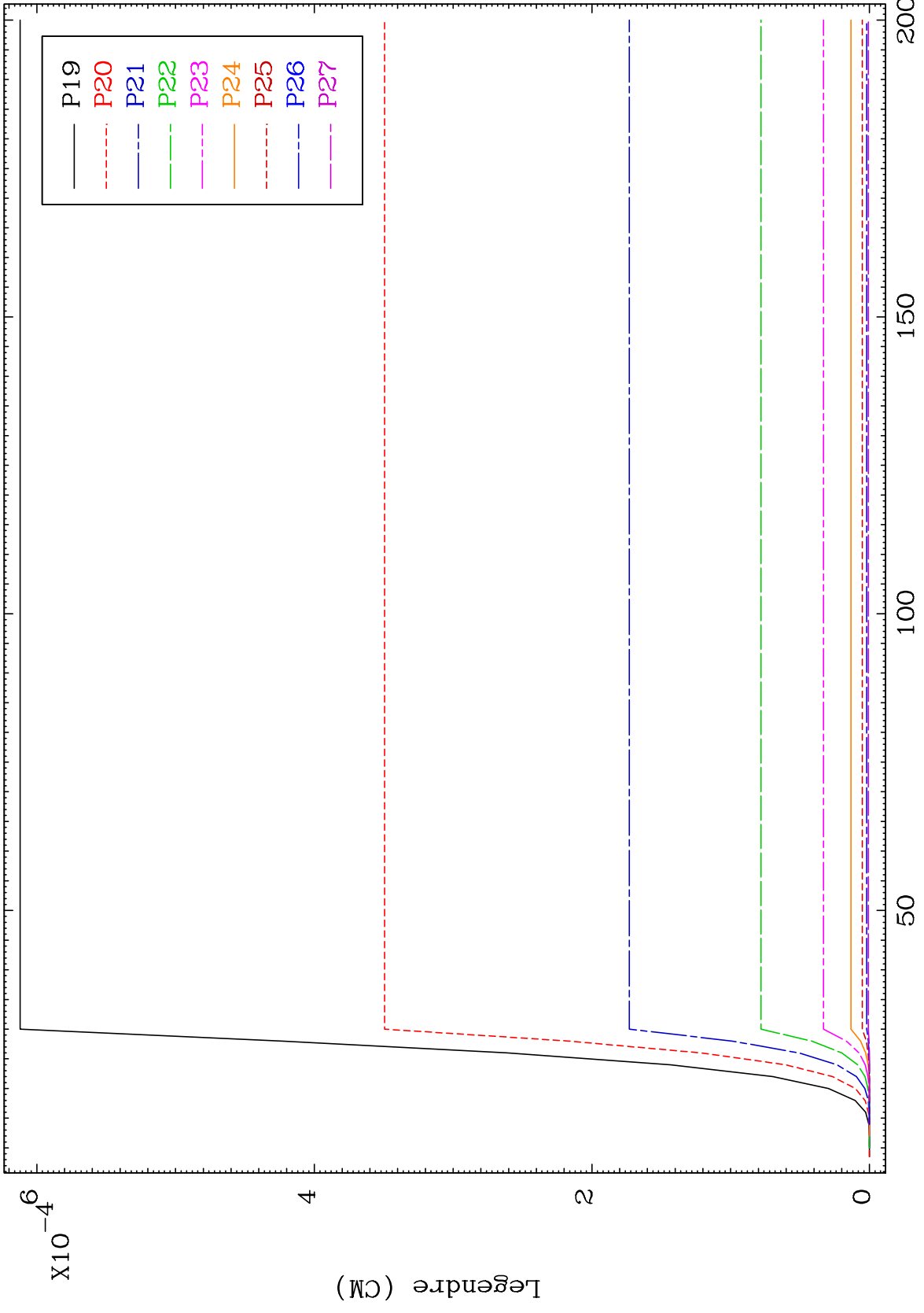
83



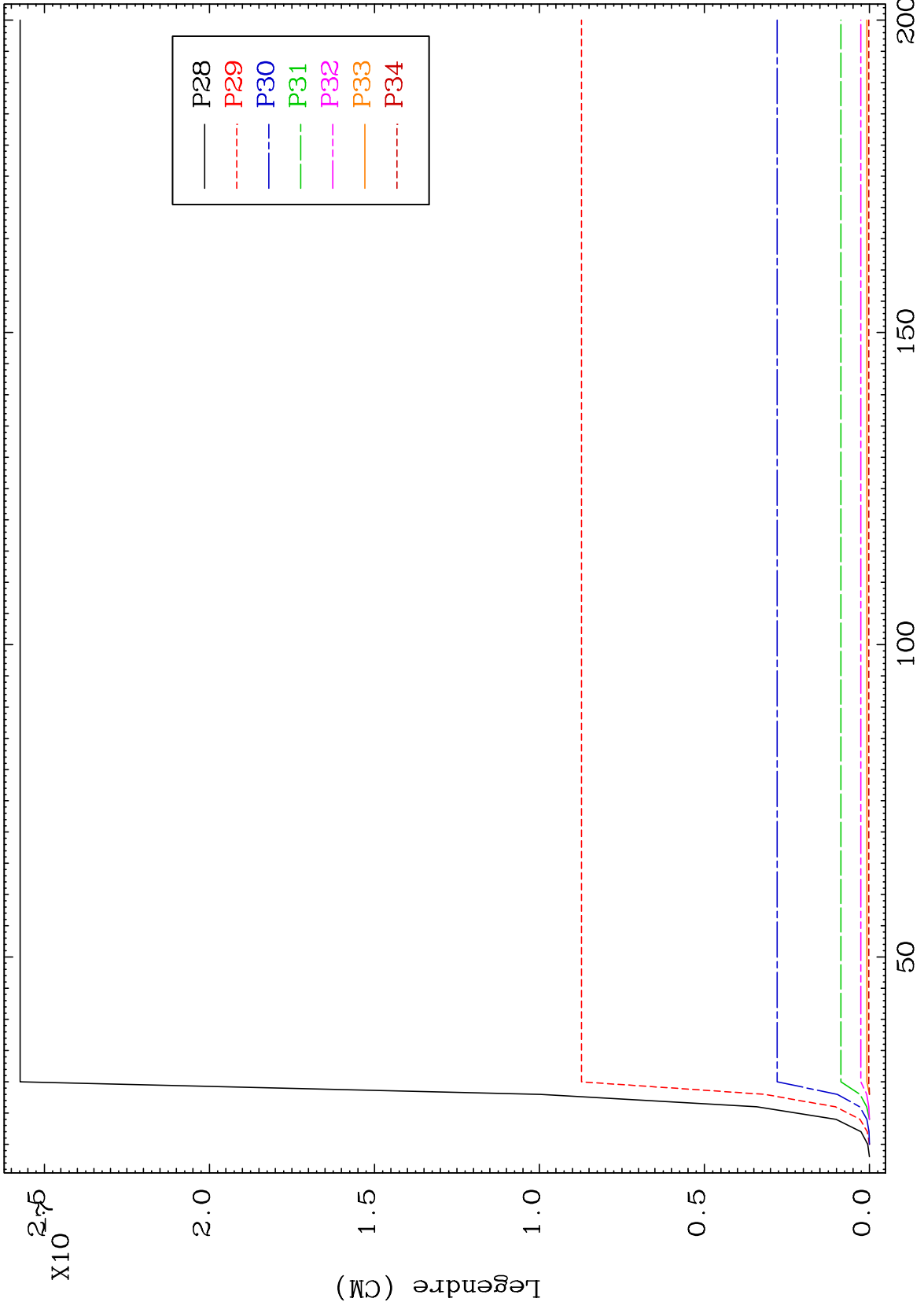
40-Zr-89

83

MAT 4022 MT= 68 (n,n') Level Legendre Coefficients 40-Zr-89

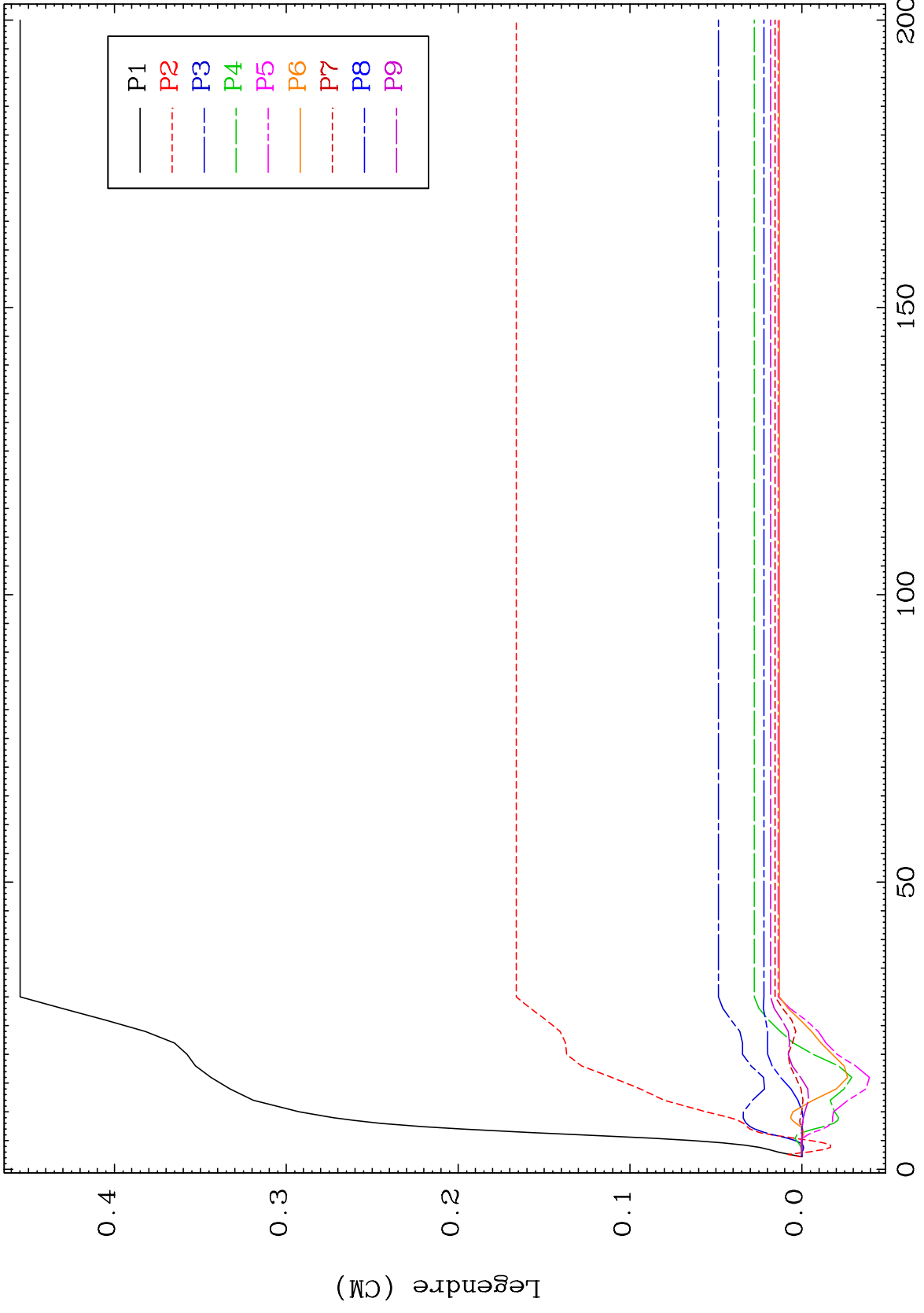


MAT 4022 MT= 68 (n,n') Level Legendre Coefficients 40-Zr-89



85 50 100 150 200 40-Zr-89

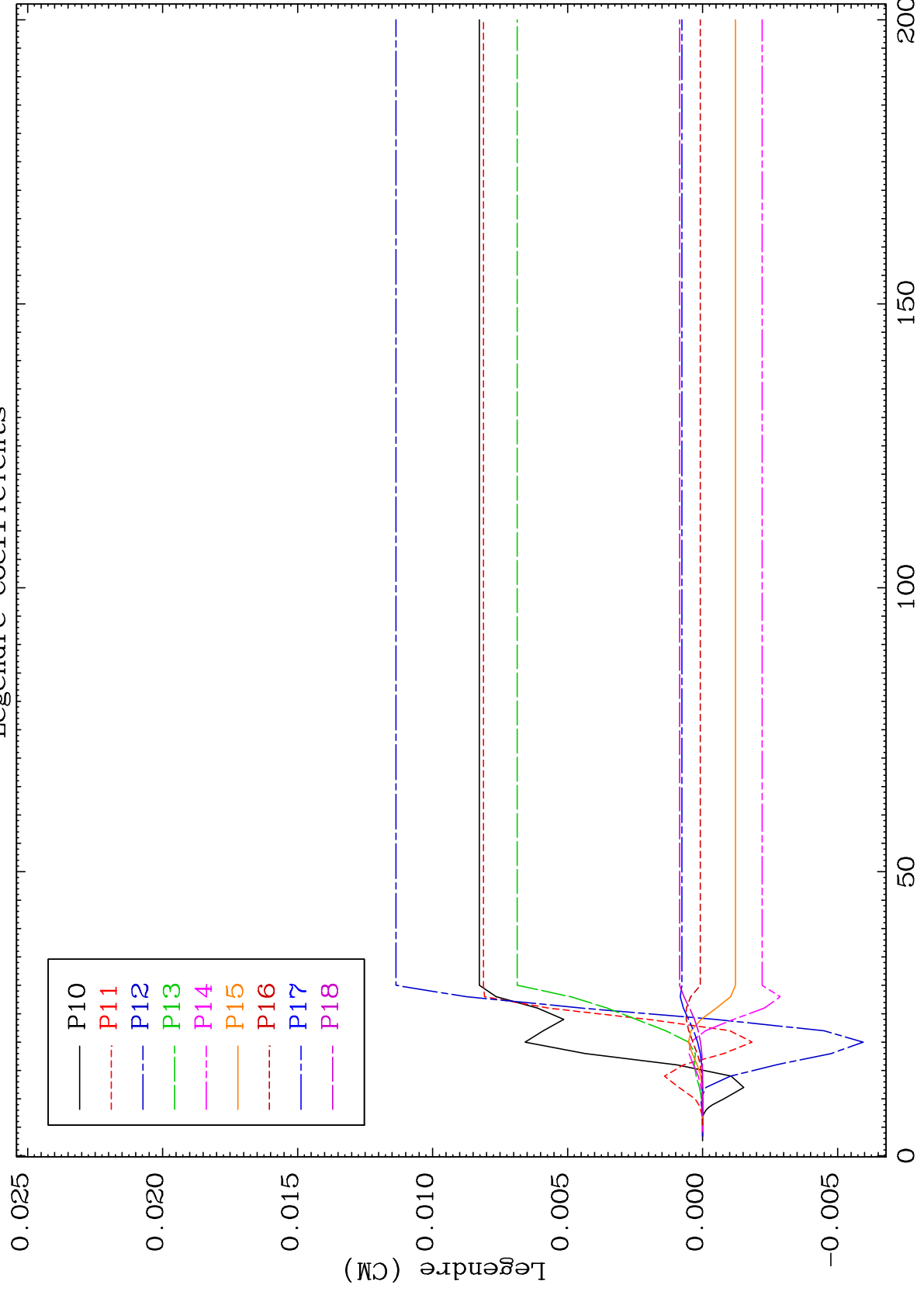
MAT 4022 MT= 69 (n,n') Level Legendre Coefficients 40-Zr-89



MAT 4022 MT= 69 (n,n') Level Legendre Coefficients

40-Zr-89

87

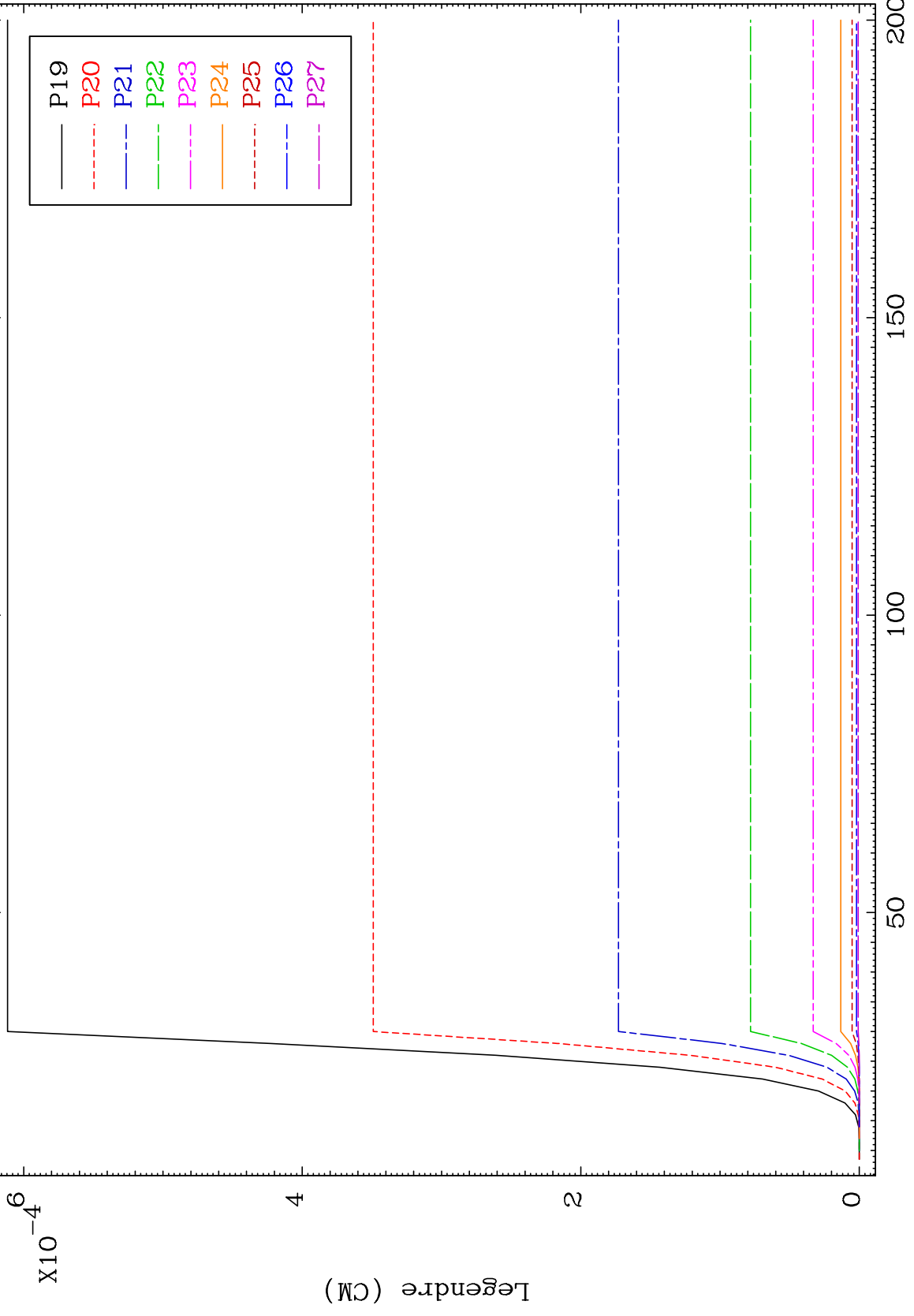


40-Zr-89

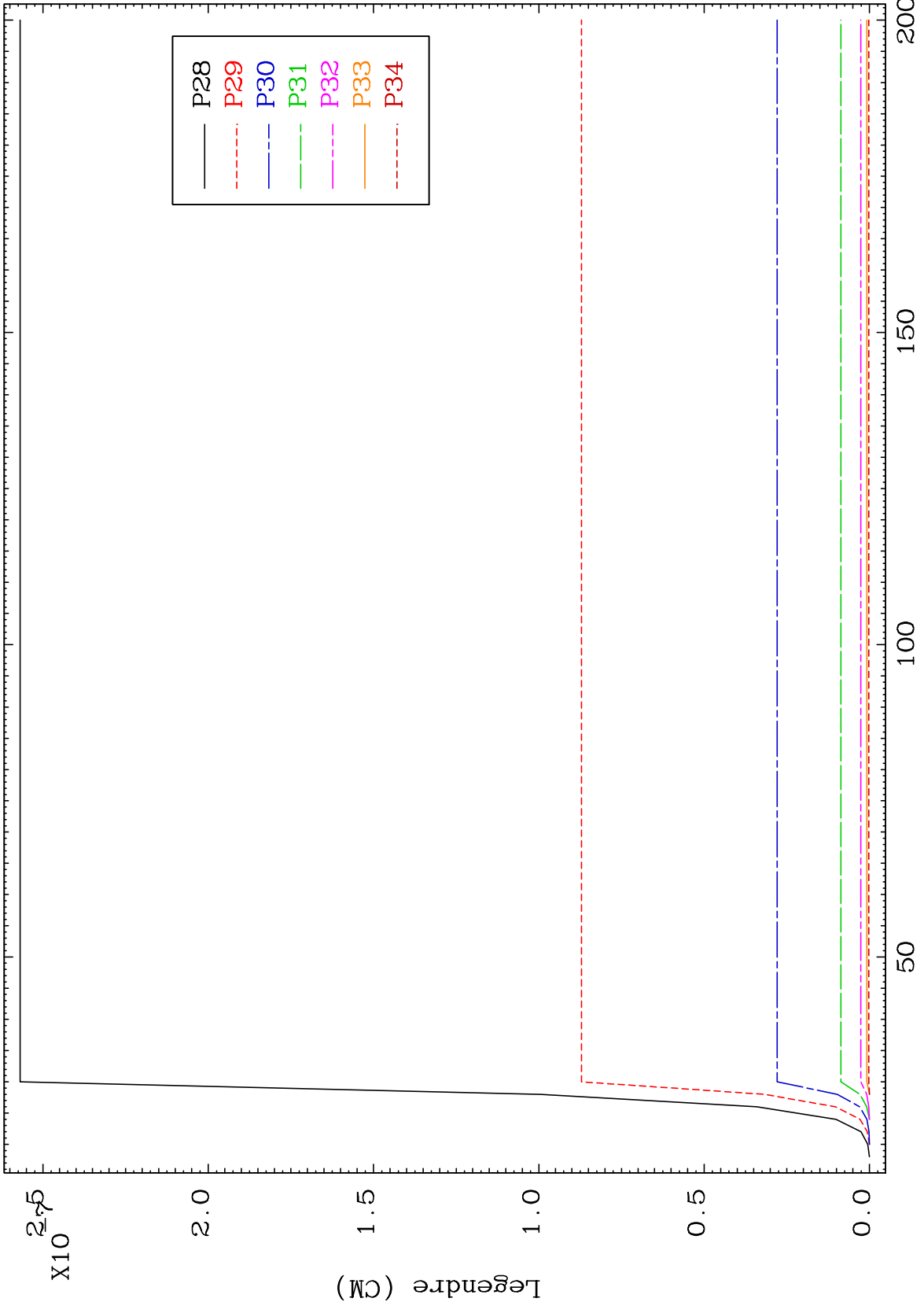
Incident Energy (MeV)

87

MAT 4022 MT= 69 (n,n') Level Legendre Coefficients 40-Zr-89



MAT 4022 MT= 69 (n,n') Level Legendre Coefficients 40-Zr-89

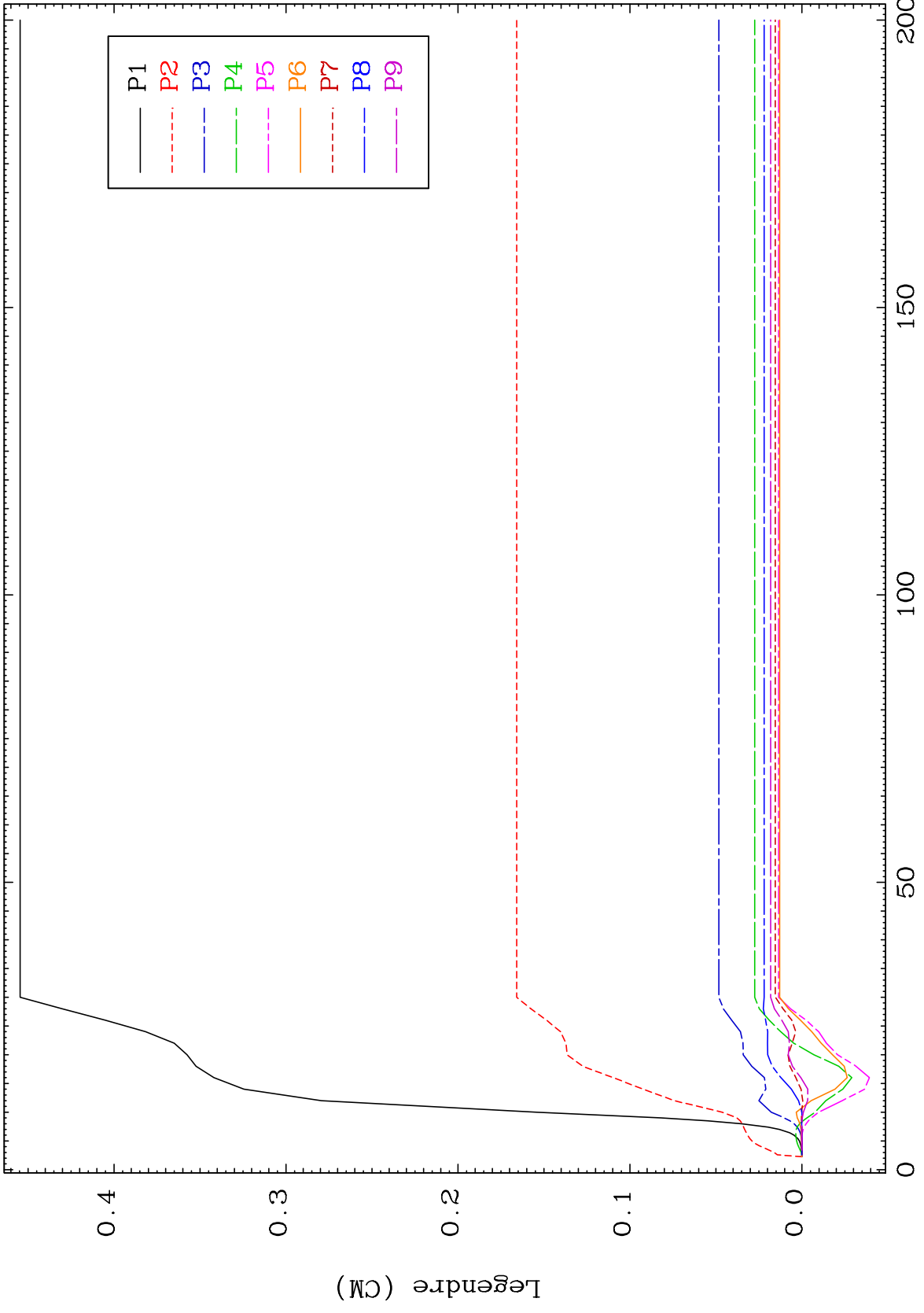


89

Incident Energy (MeV)

40-Zr-89

MAT 4022 MT= 70 (n,n') Level Legendre Coefficients 40-Zr-89

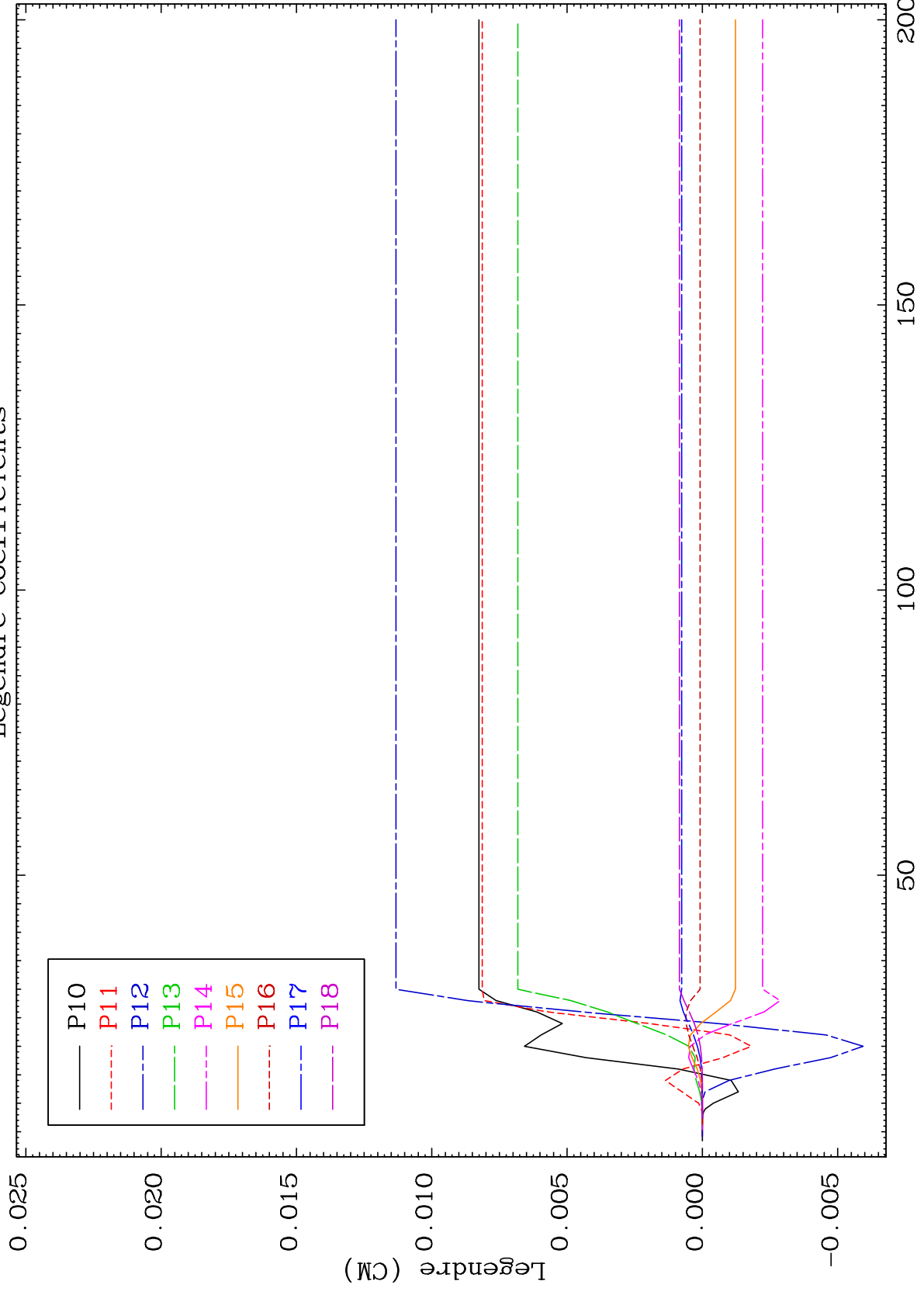


Incident Energy (MeV) 40-Zr-89

MAT 4022 MT= 70 (n,n') Level Legendre Coefficients

40-Zr-89

91

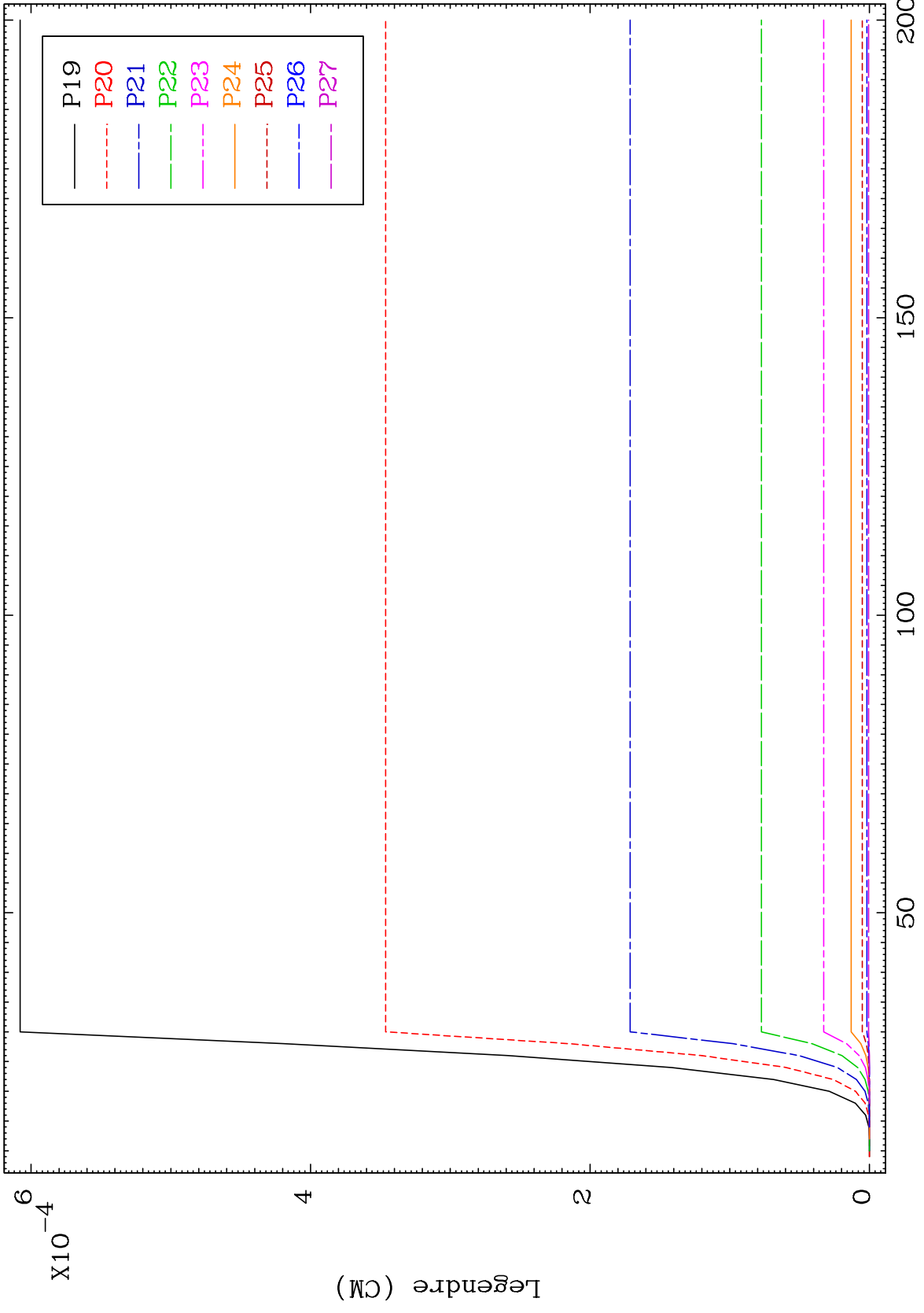


40-Zr-89

Incident Energy (MeV)

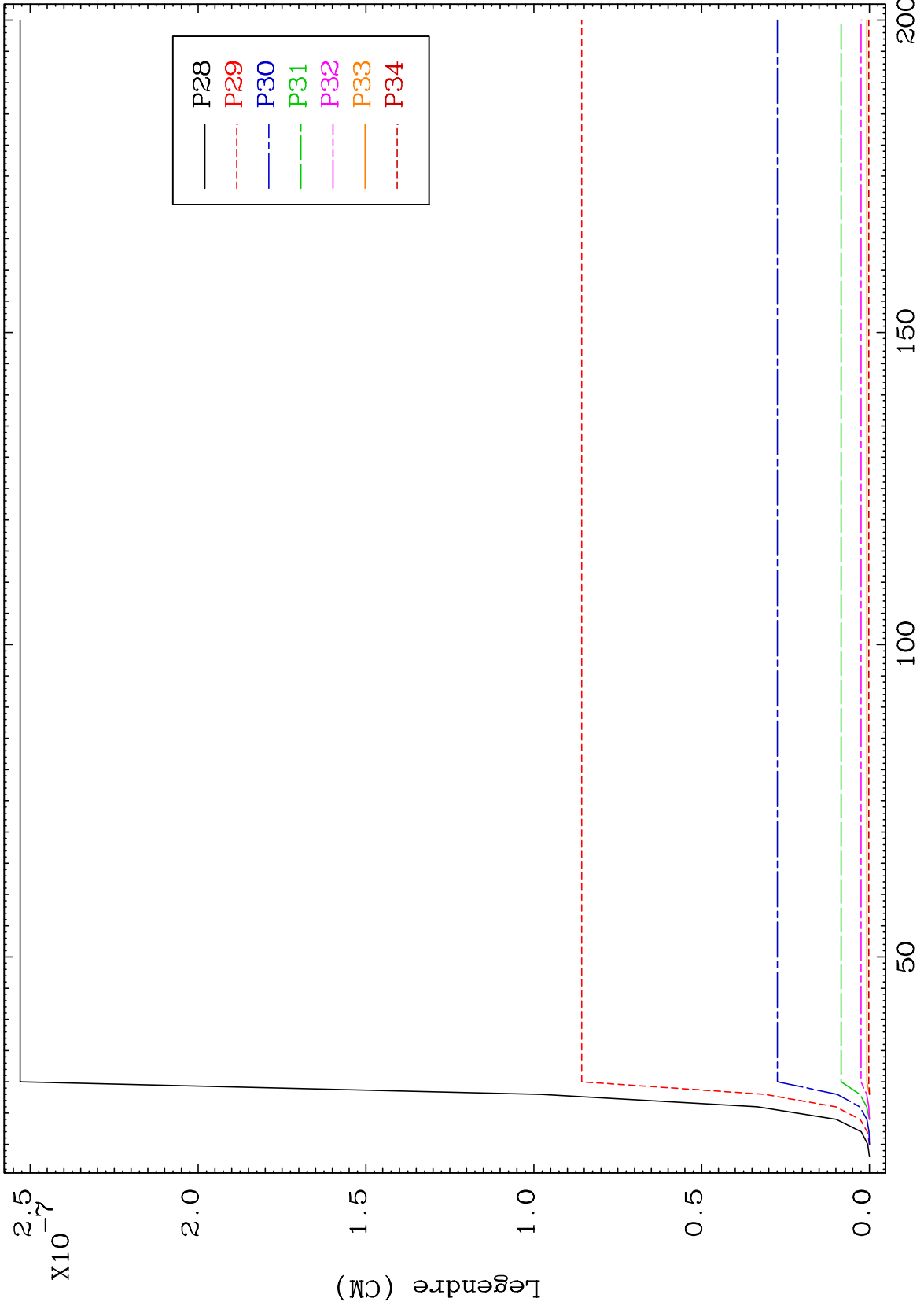
91

MAT 4022 MT= 70 (n,n') Level Legendre Coefficients 40-Zr-89



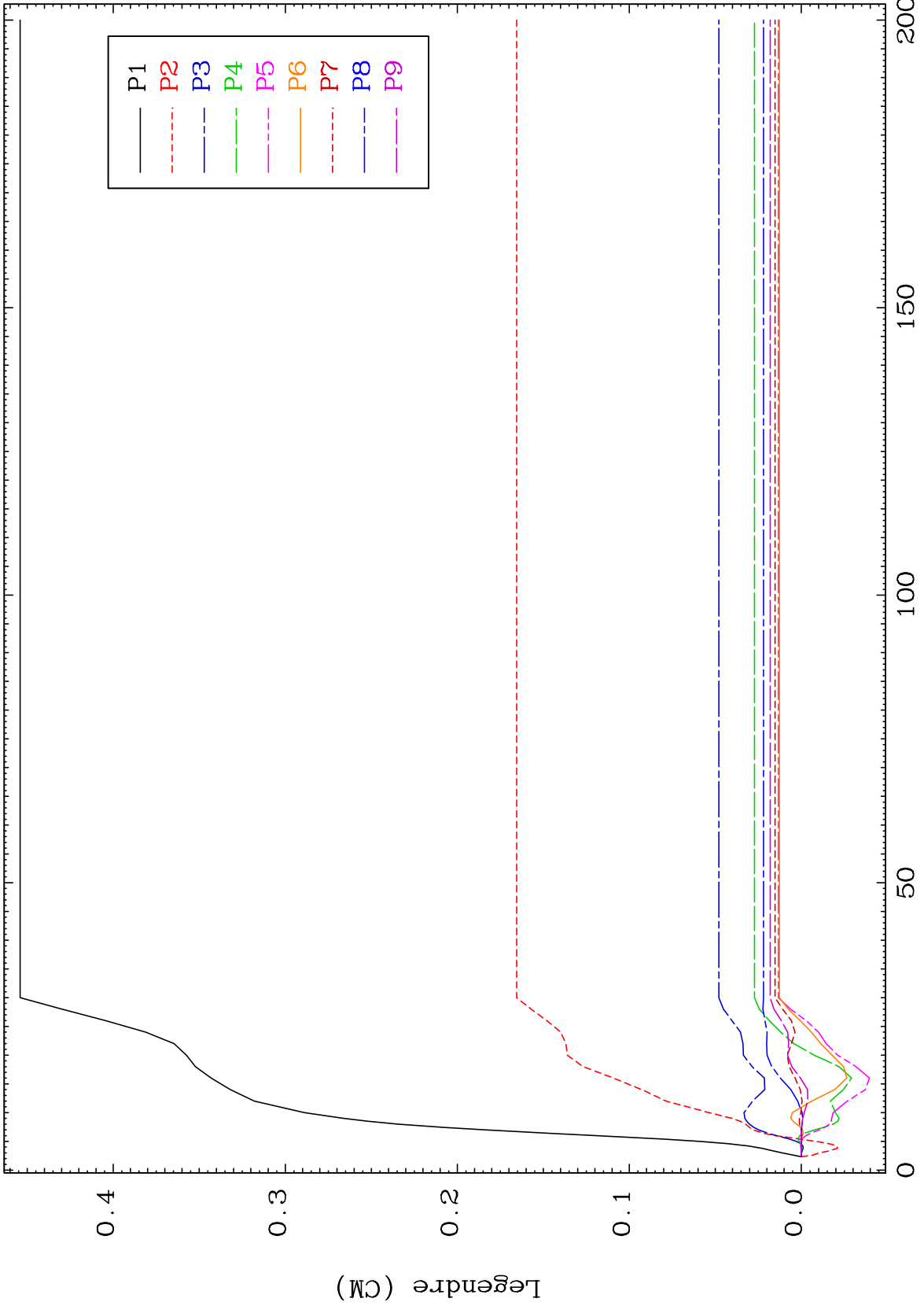
92 40-Zr-89

MAT 4022 MT= 70 (n,n') Level Legendre Coefficients 40-Zr-89



93 40-Zr-89

MAT 4022 MT= 71 (n,n') Level Legendre Coefficients 40-Zr-89

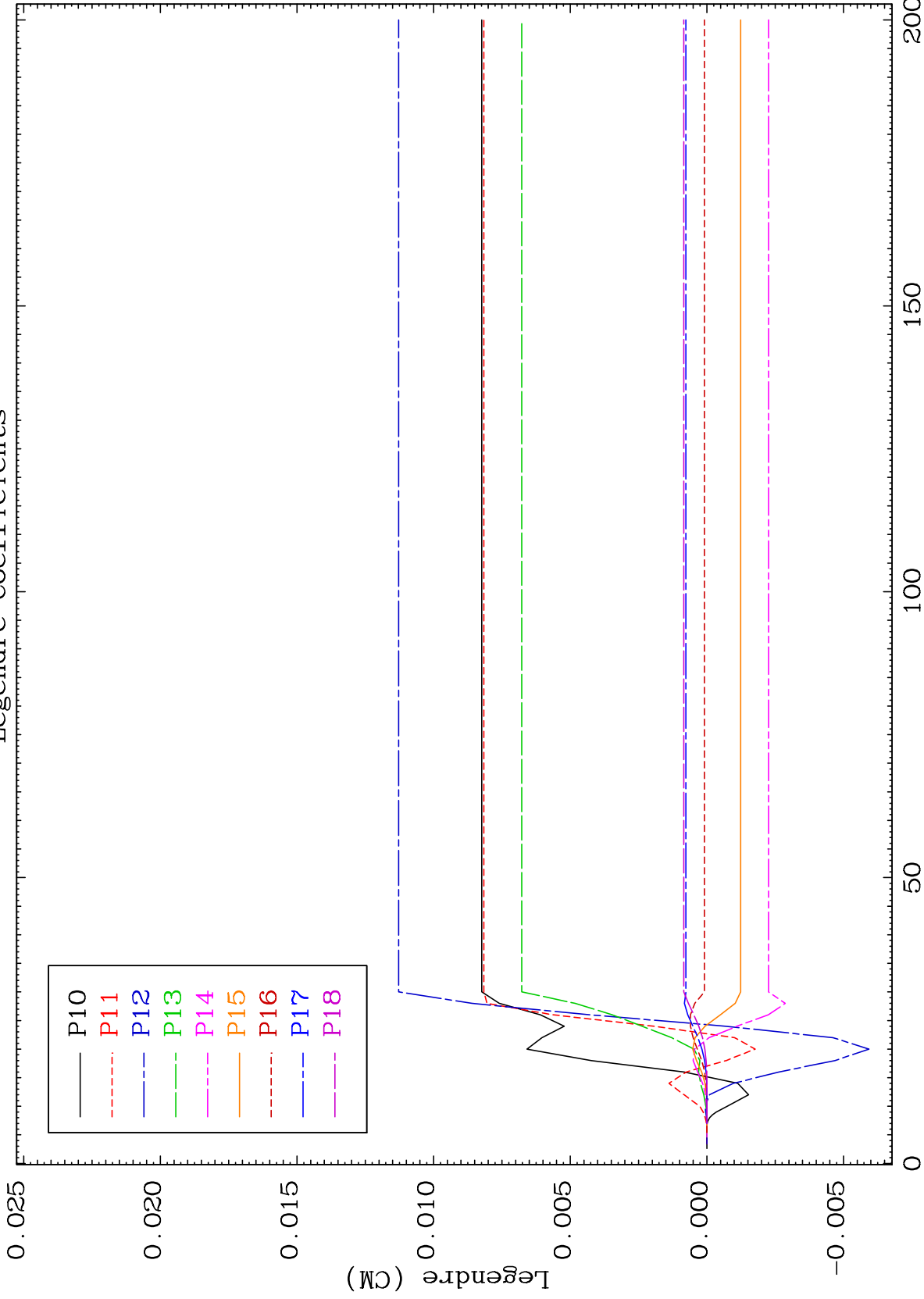


94 40-Zr-89

MAT 4022

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

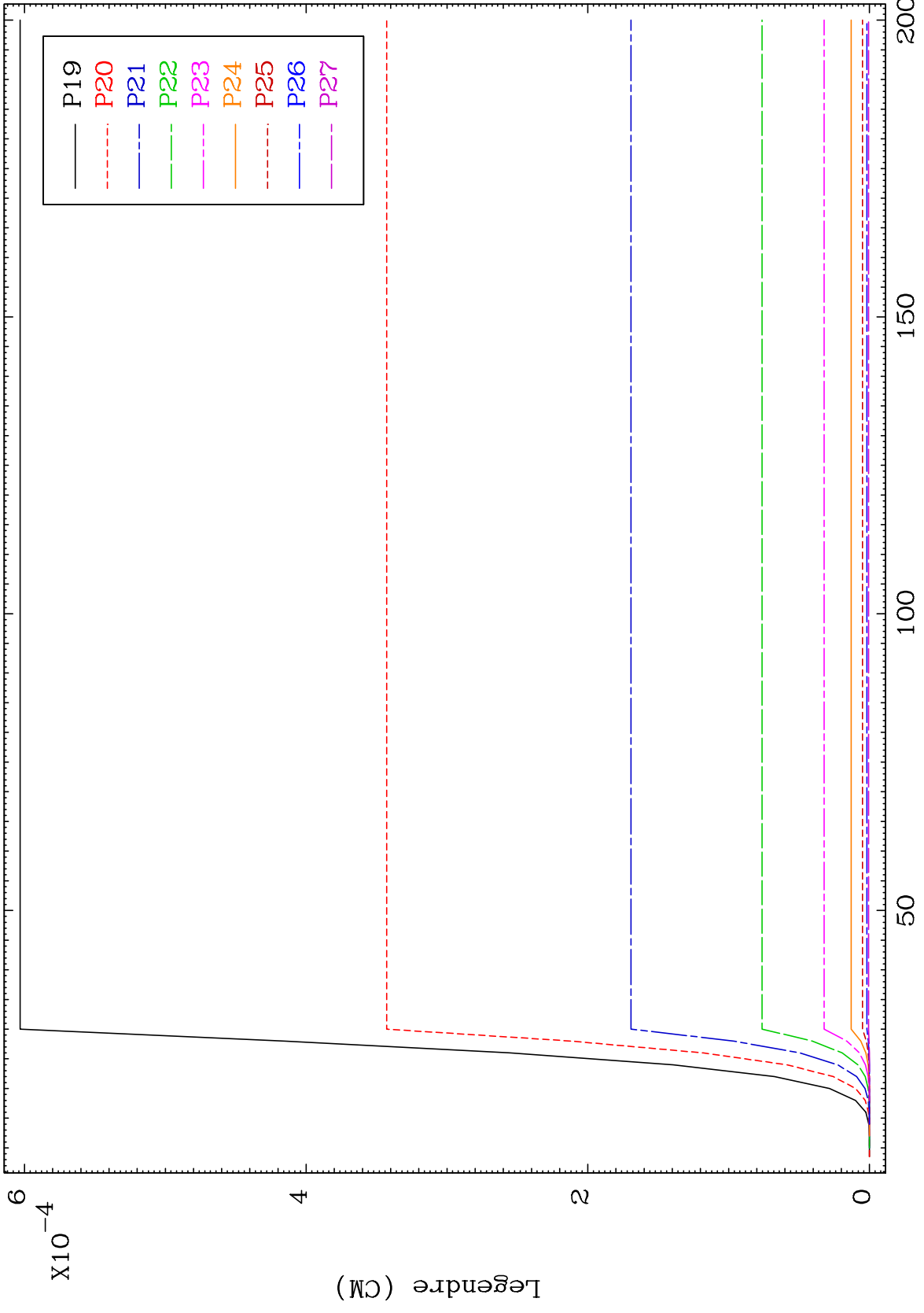
40-Zr-89



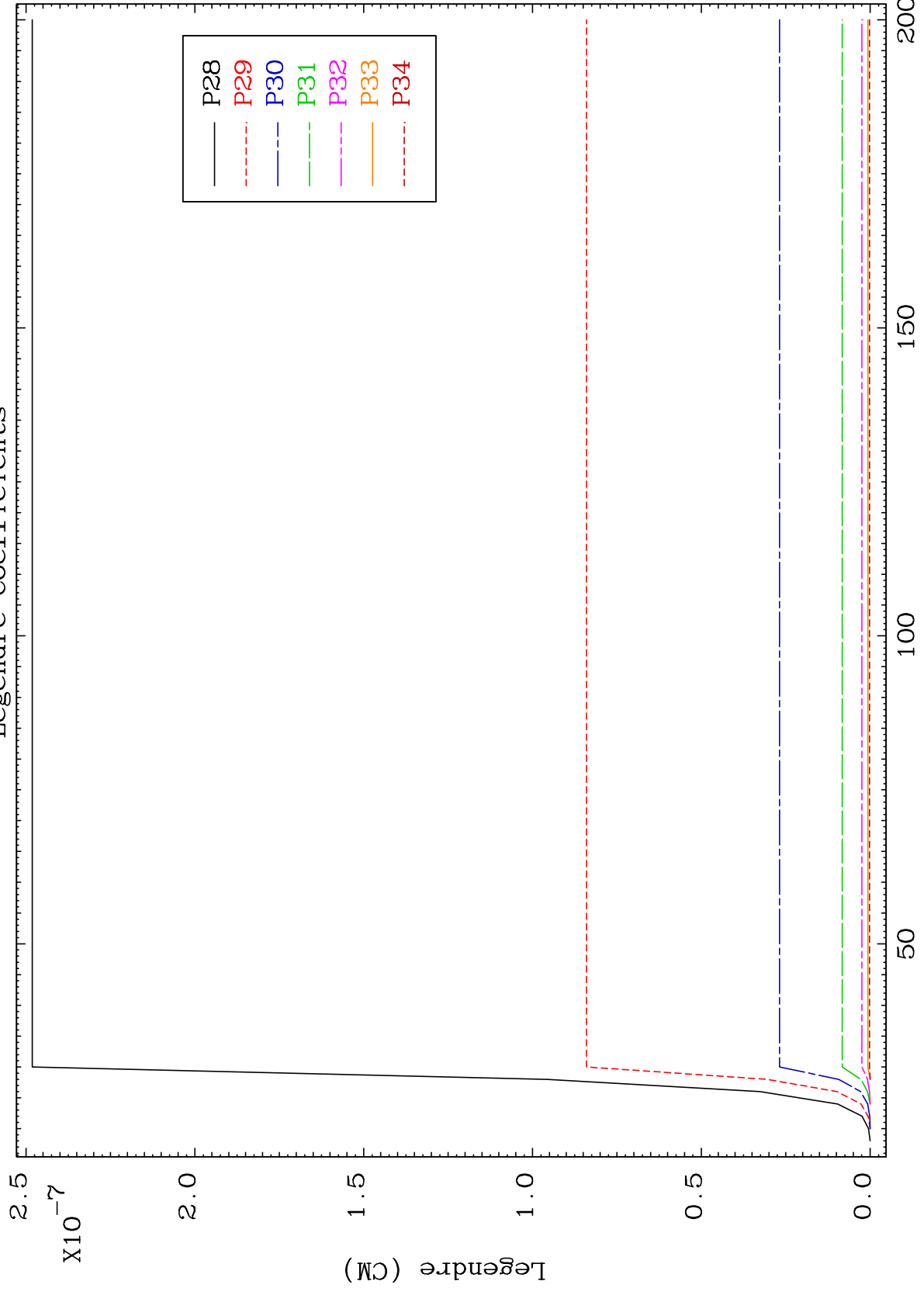
40-Zr-89

Incident Energy (MeV)

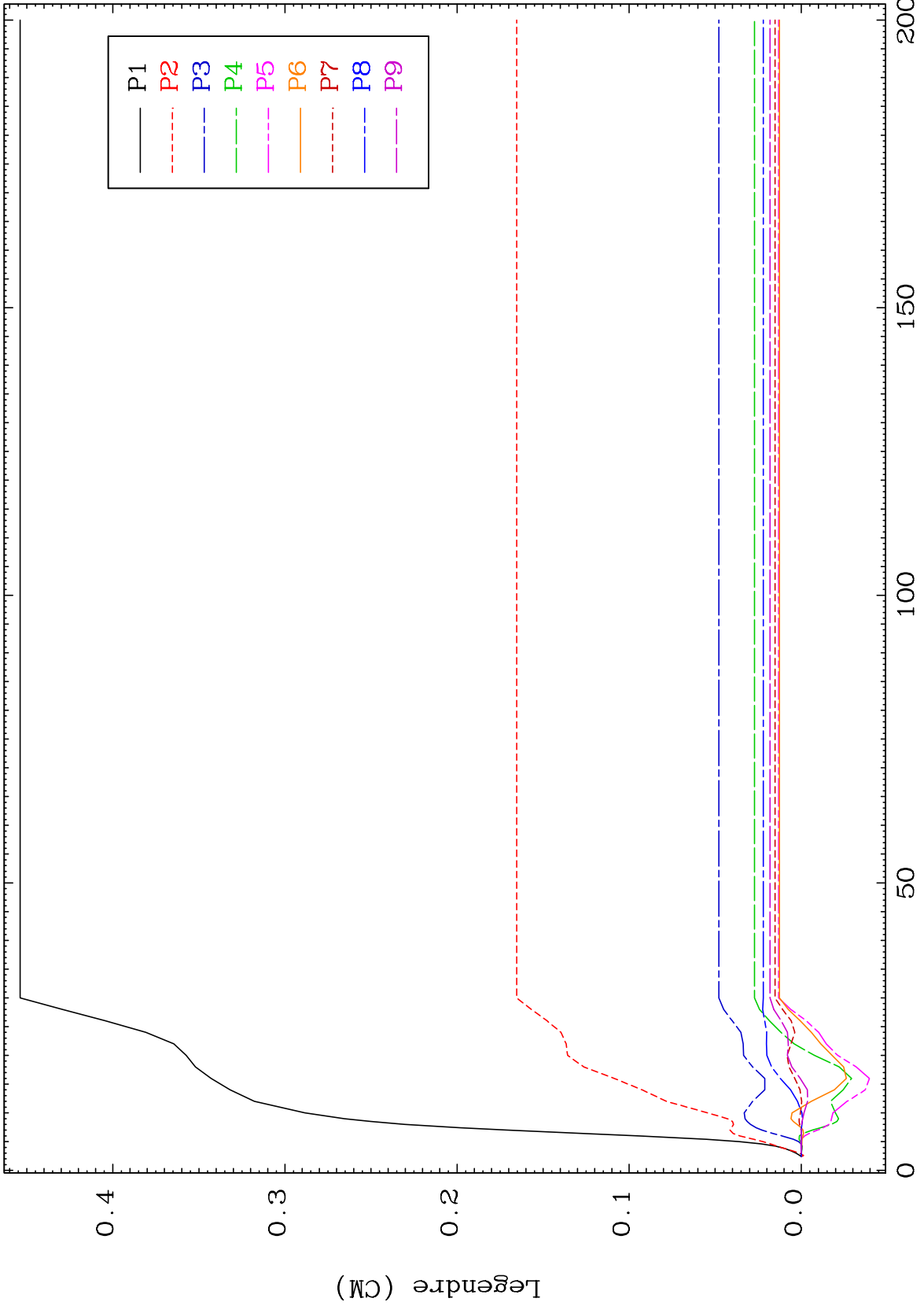
95



MAT 4022 MT= 71 (n,n') Level Legendre Coefficients 40-Zr-89

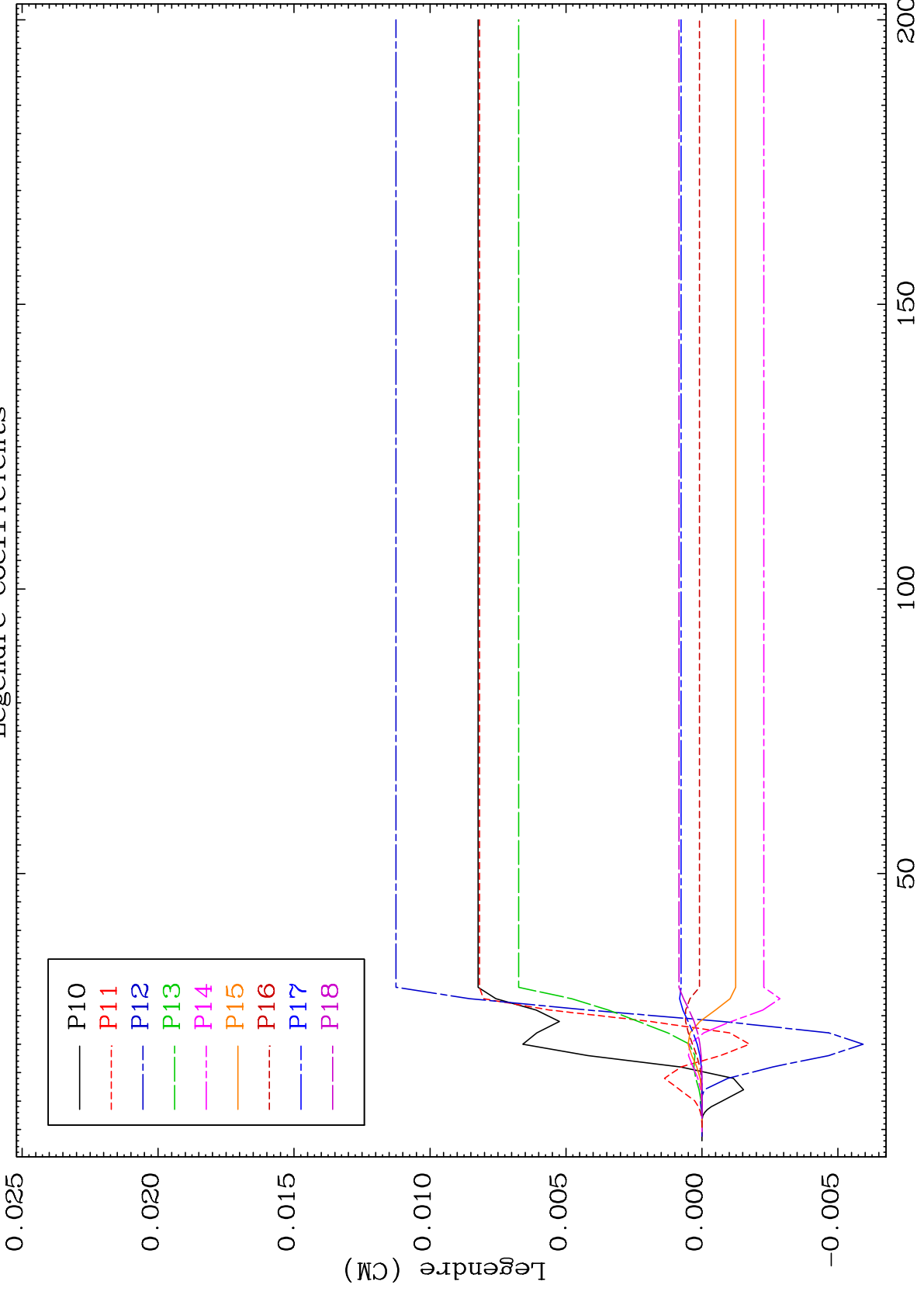


MAT 4022 MT= 72 (n,n') Level Legendre Coefficients 40-Zr-89

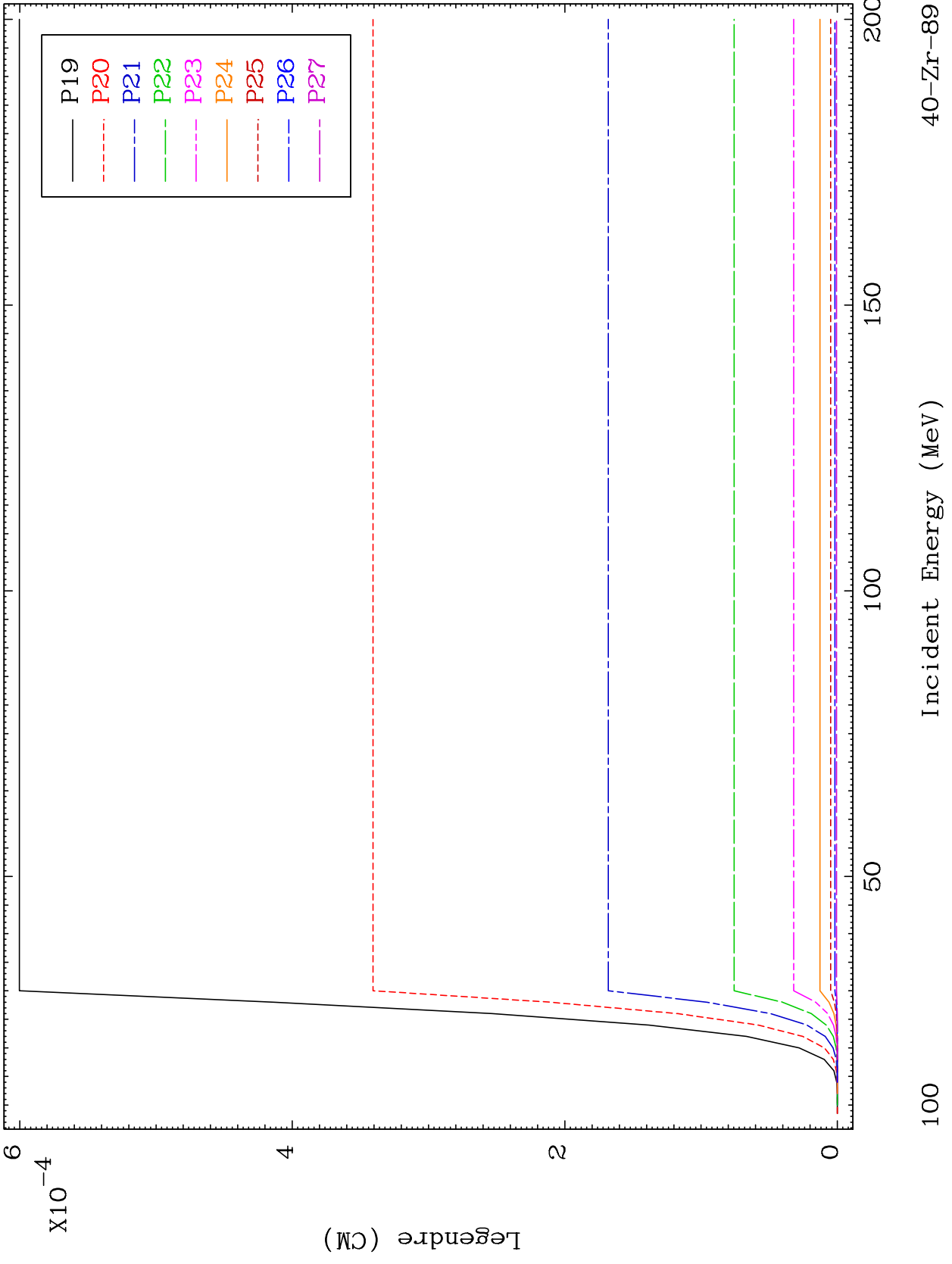


98 Incident Energy (MeV) 40-Zr-89

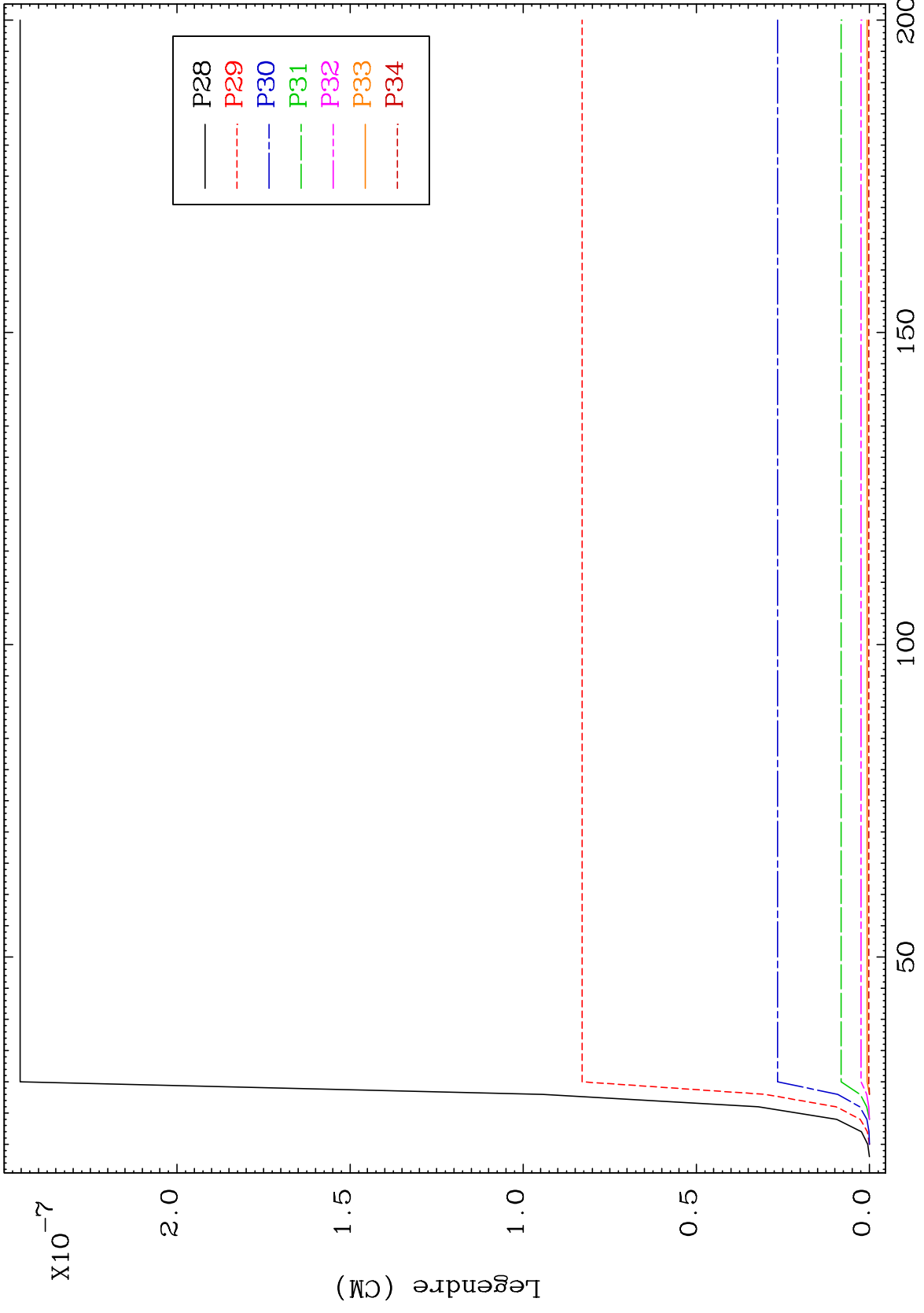
MAT 4022 MT= 72 (n,n') Level Legendre Coefficients 40-Zr-89



MAT 4022 MT= 72 (n,n') Level Legendre Coefficients 40-Zr-89



MAT 4022 MT= 72 (n,n') Level Legendre Coefficients 40-Zr-89

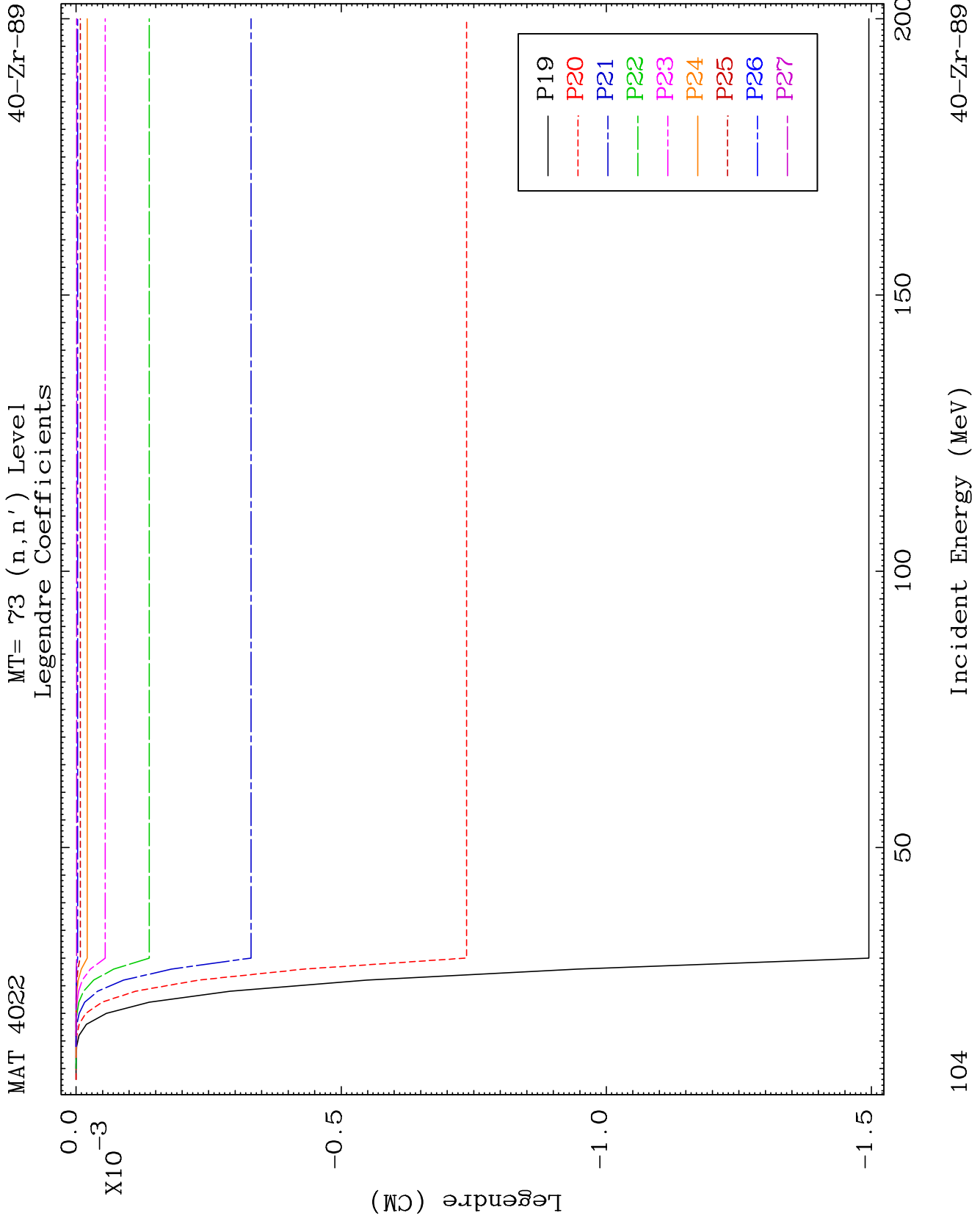


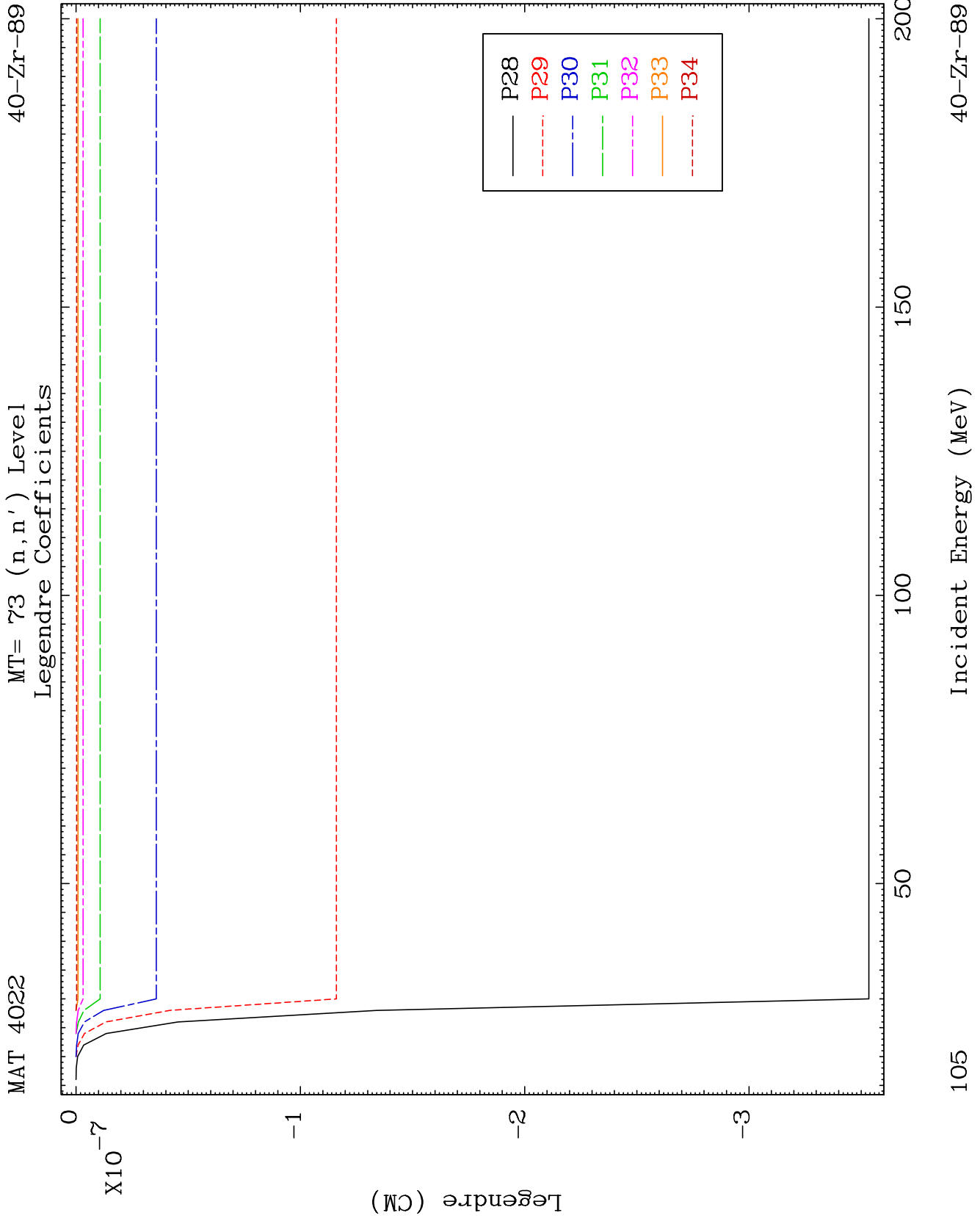
101 50 100 150 200 40-Zr-89

MAT 4022 MT= 73 (n,n') Level Legendre Coefficients 40-Zr-89

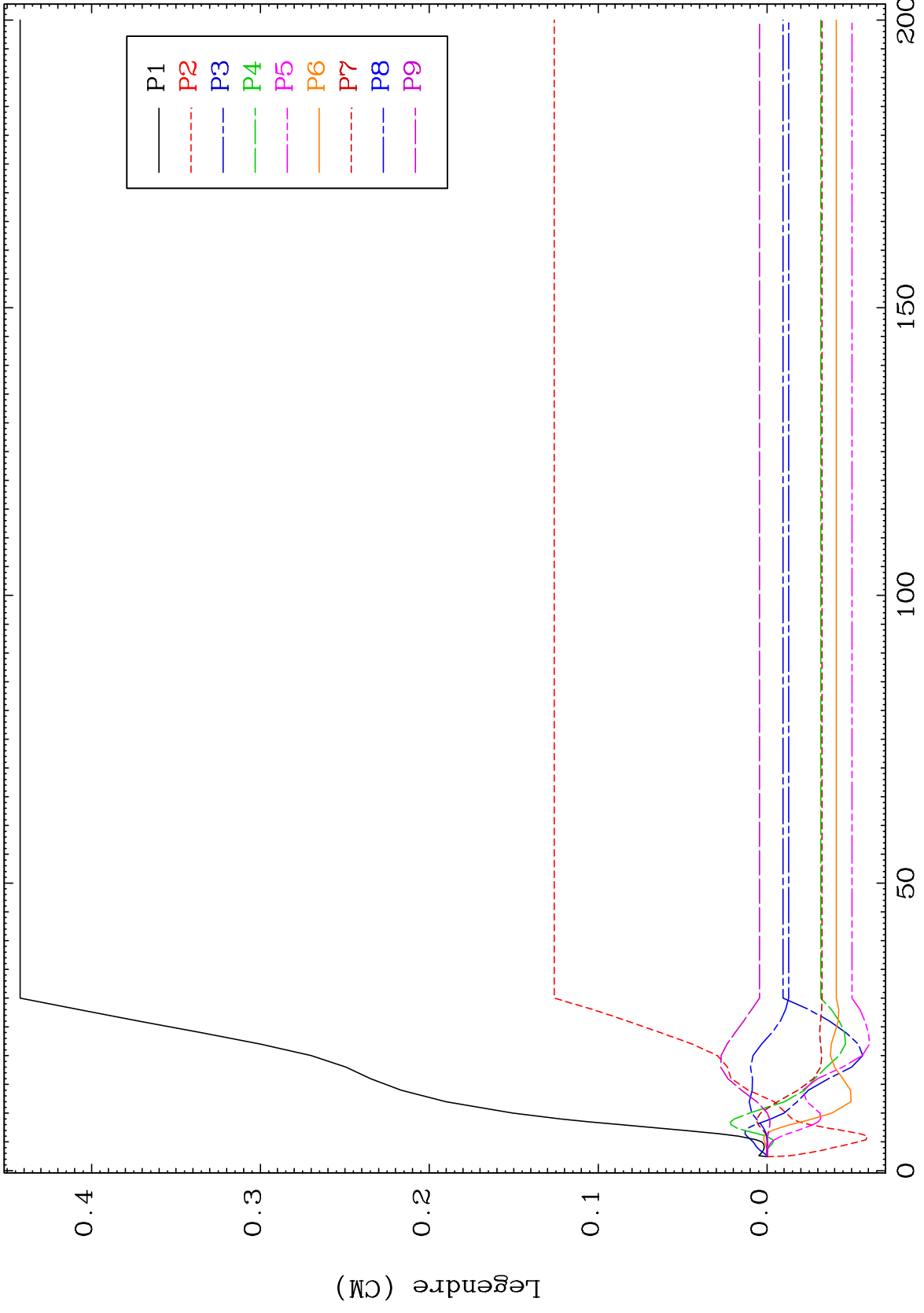


102 Incident Energy (MeV) 40-Zr-89



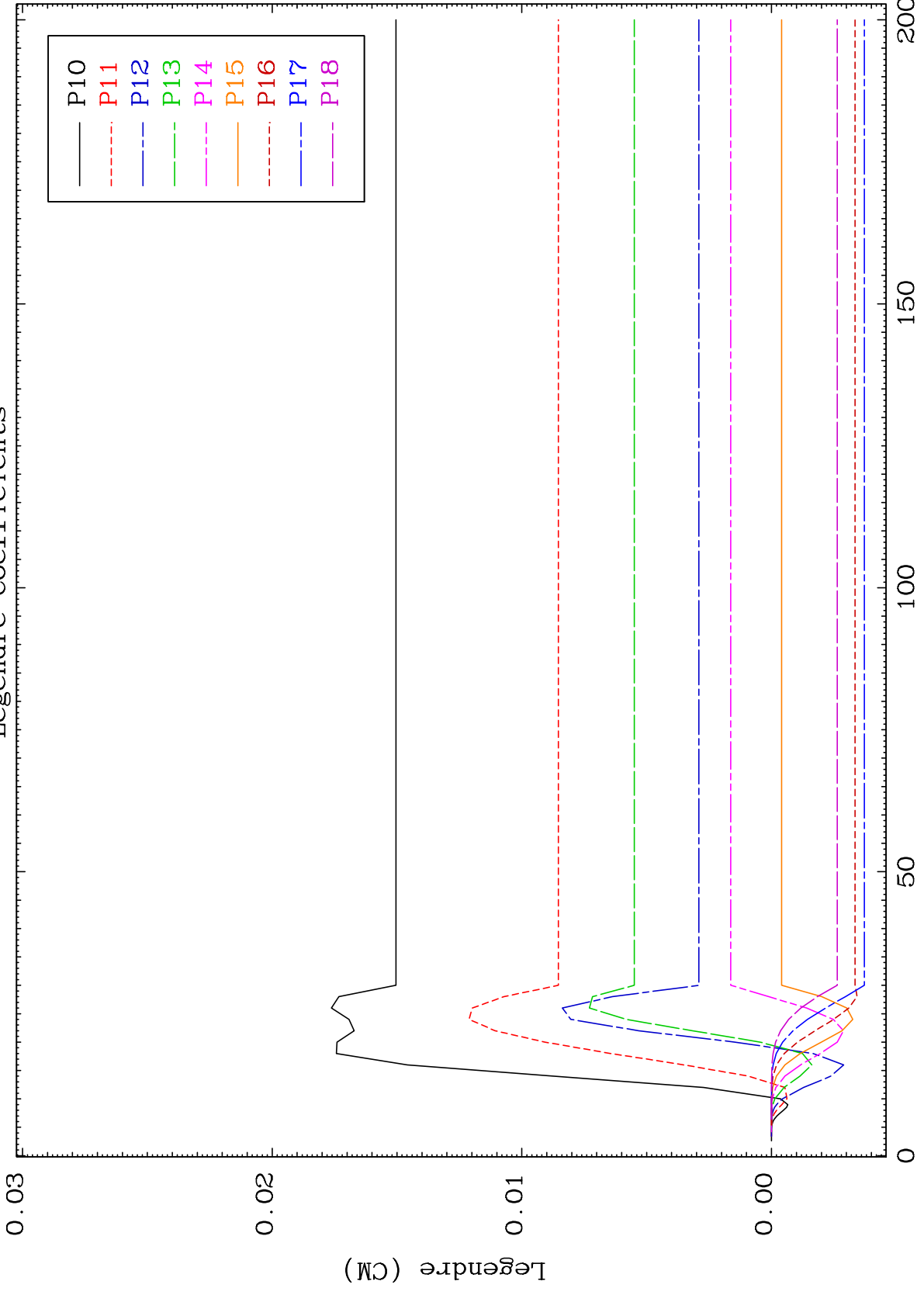


MAT 4022 MT= 74 (n,n') Level Legendre Coefficients 40-Zr-89

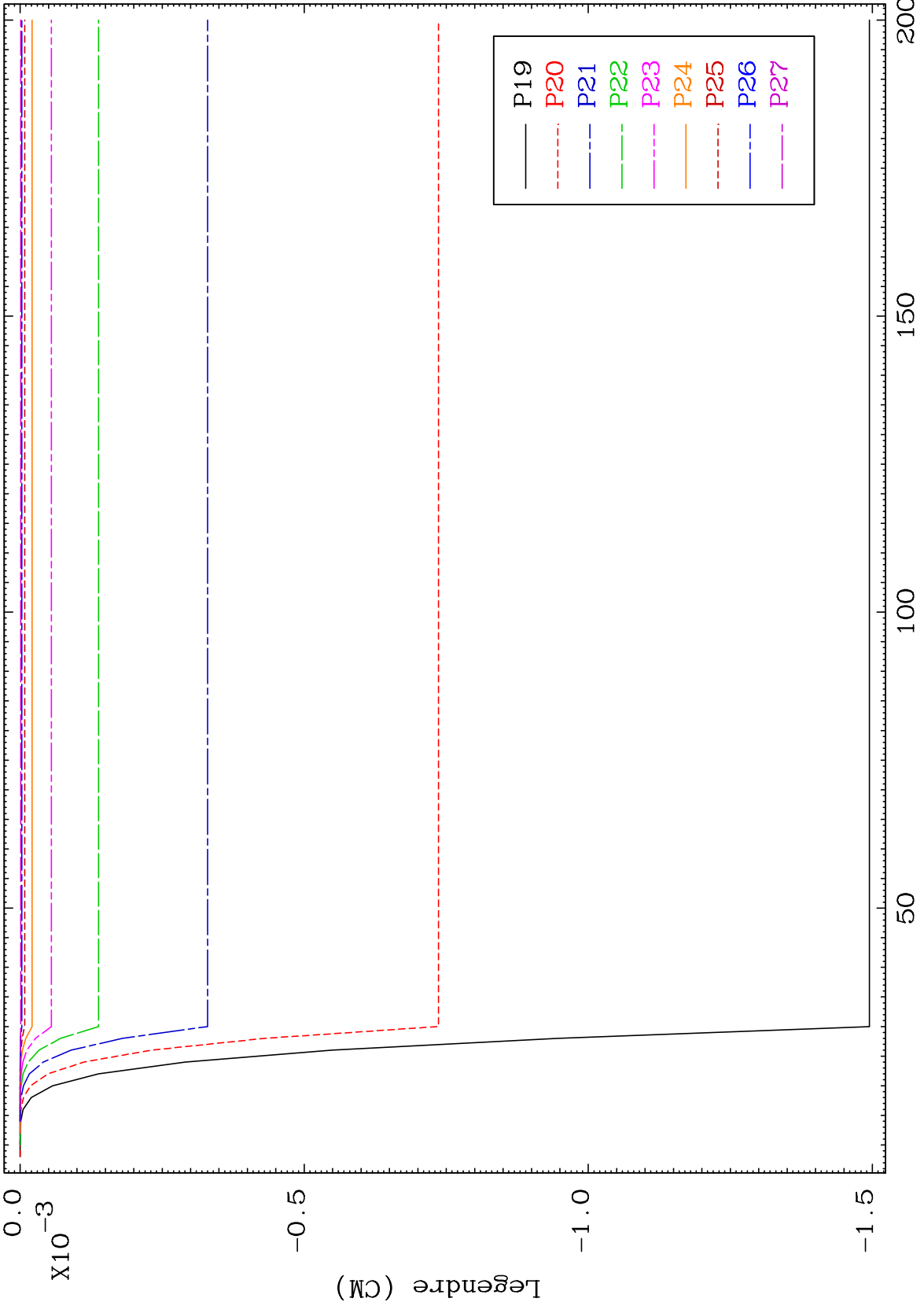


106 40-Zr-89

MAT 4022 MT= 74 (n,n') Level Legendre Coefficients 40-Zr-89

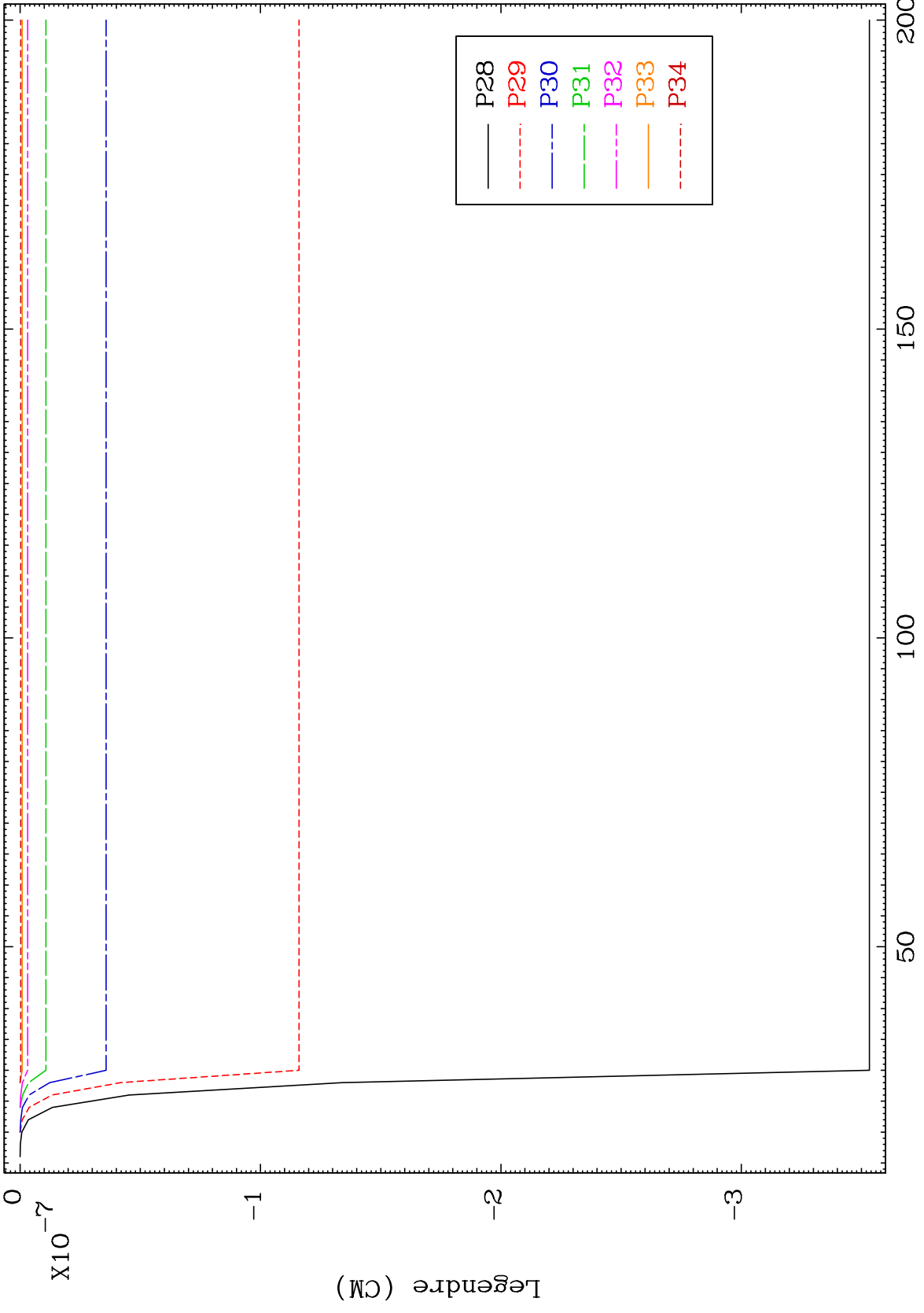


MAT 4022 MT= 74 (n,n') Level Legendre Coefficients 40-Zr-89



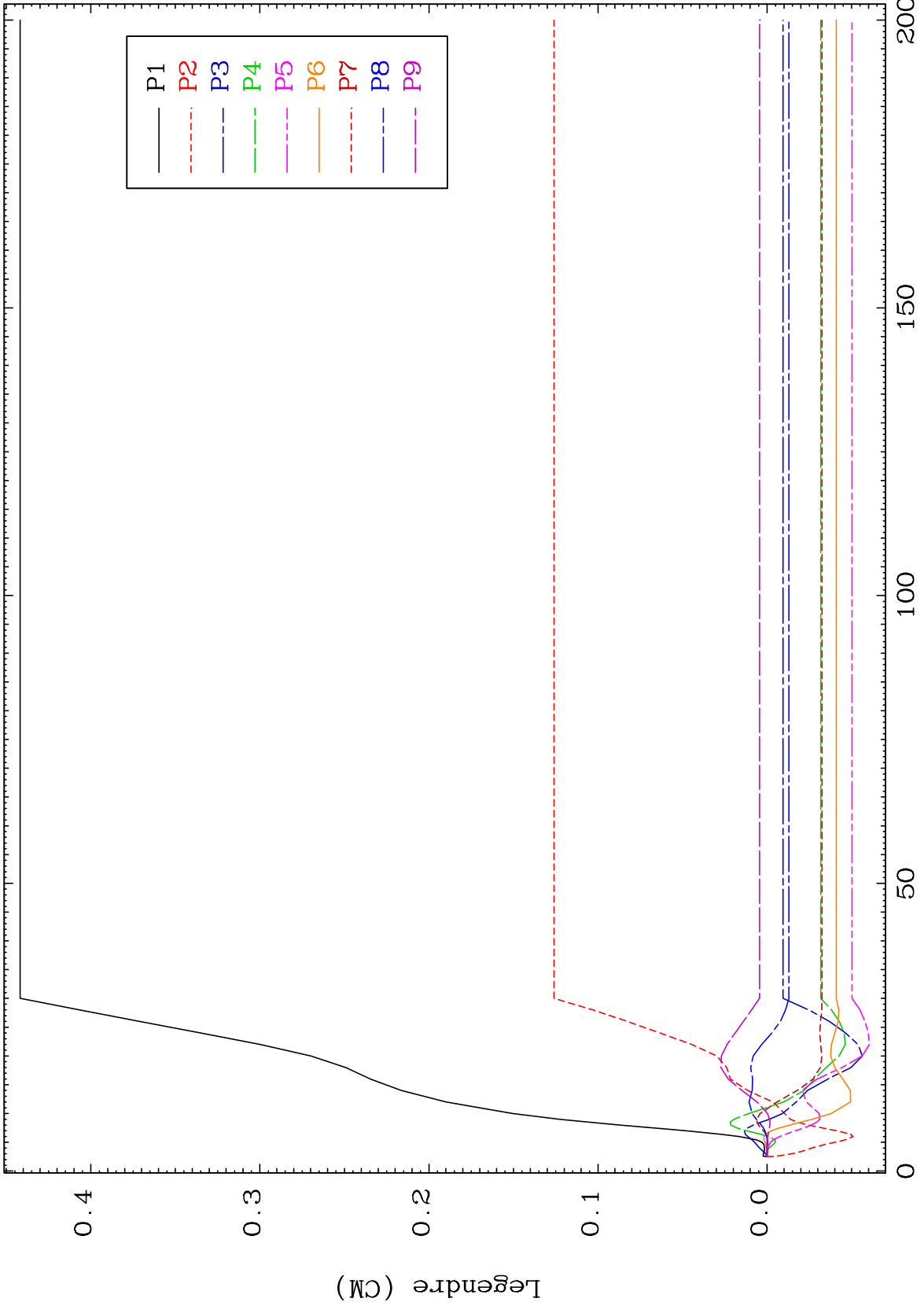
108 40-Zr-89

MAT 4022 MT= 74 (n,n') Level Legendre Coefficients 40-Zr-89



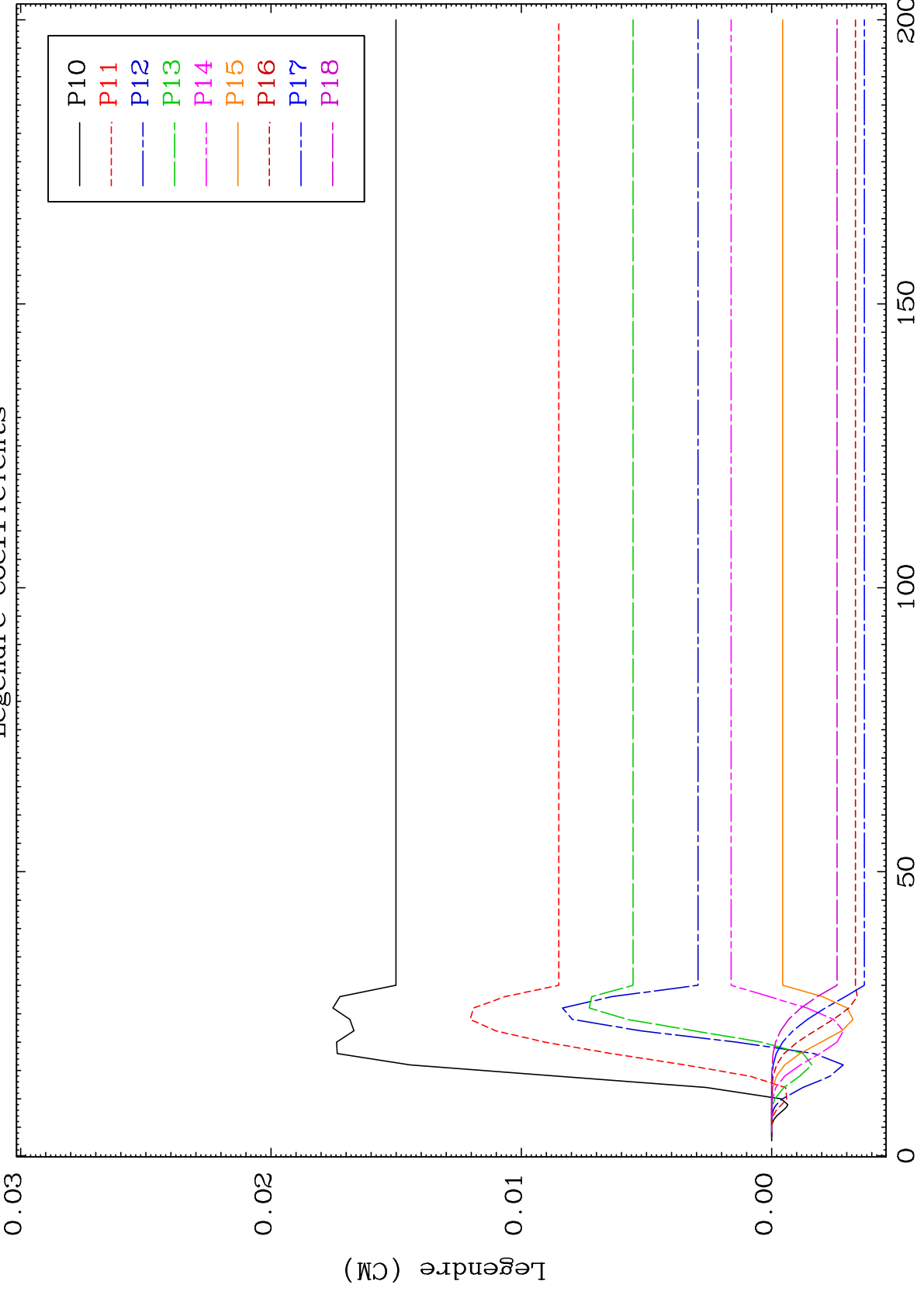
109 40-Zr-89

MAT 4022 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-89

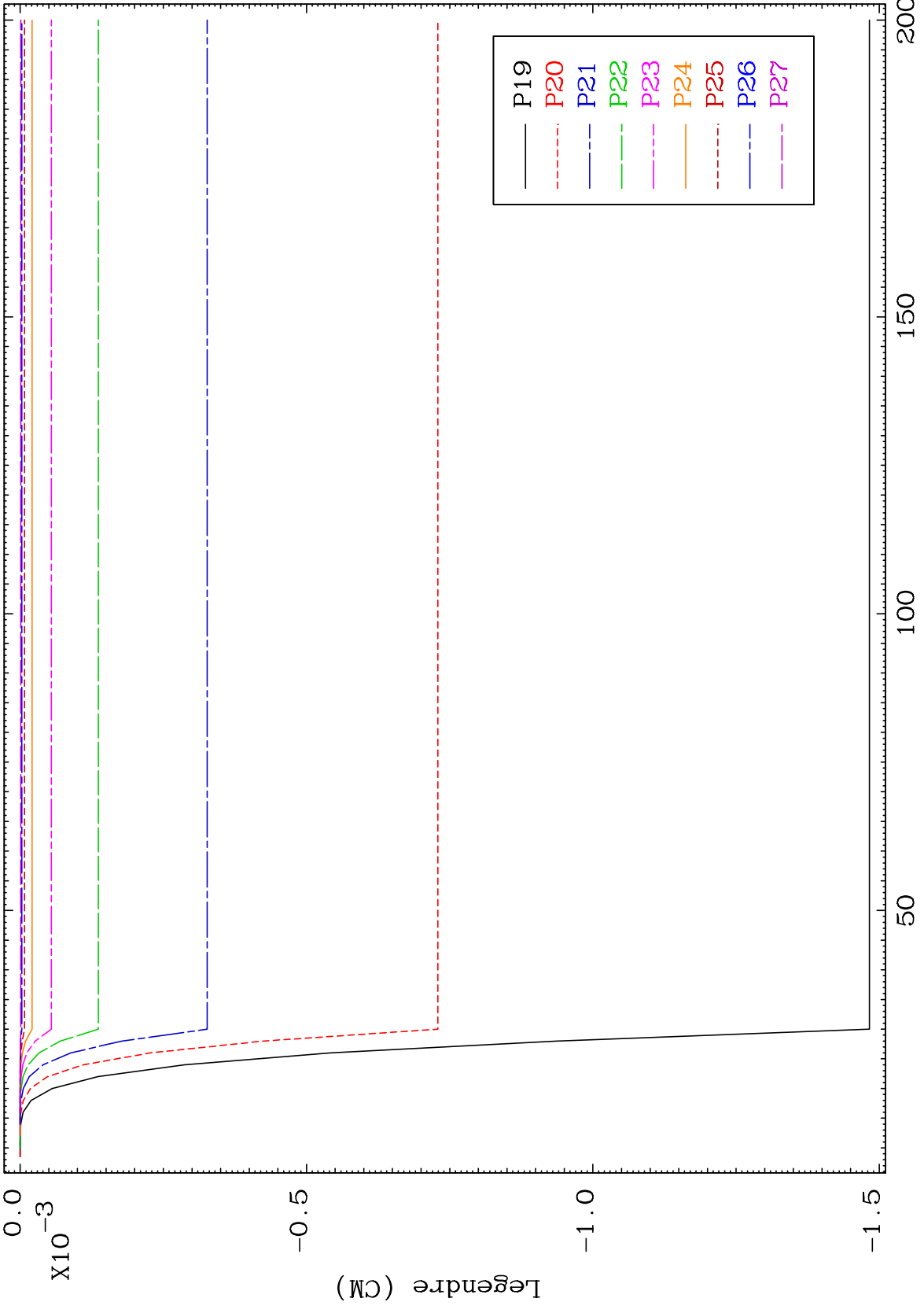


110 Incident Energy (MeV) 40-Zr-89

MAT 4022 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-89

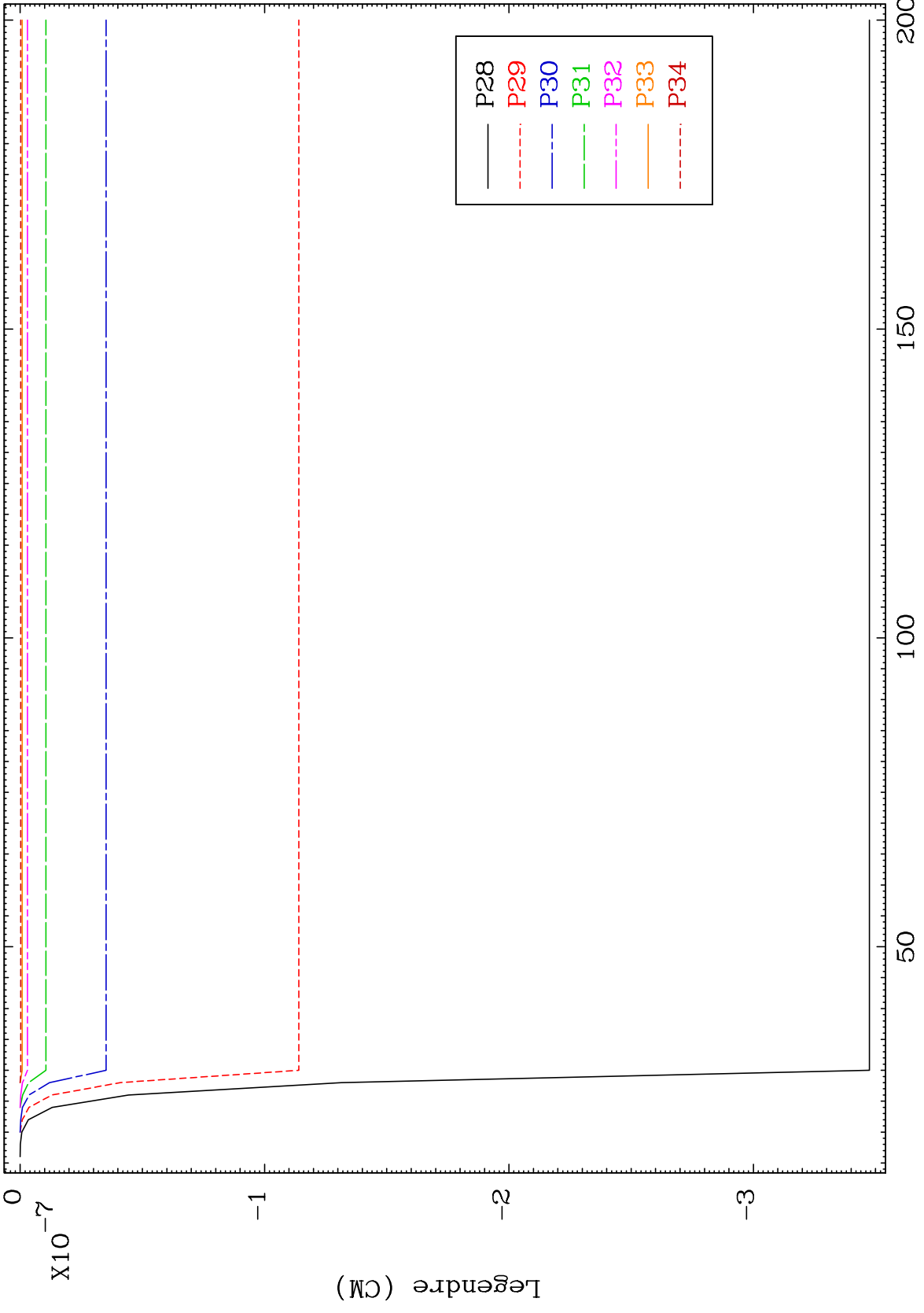


MAT 4022 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-89



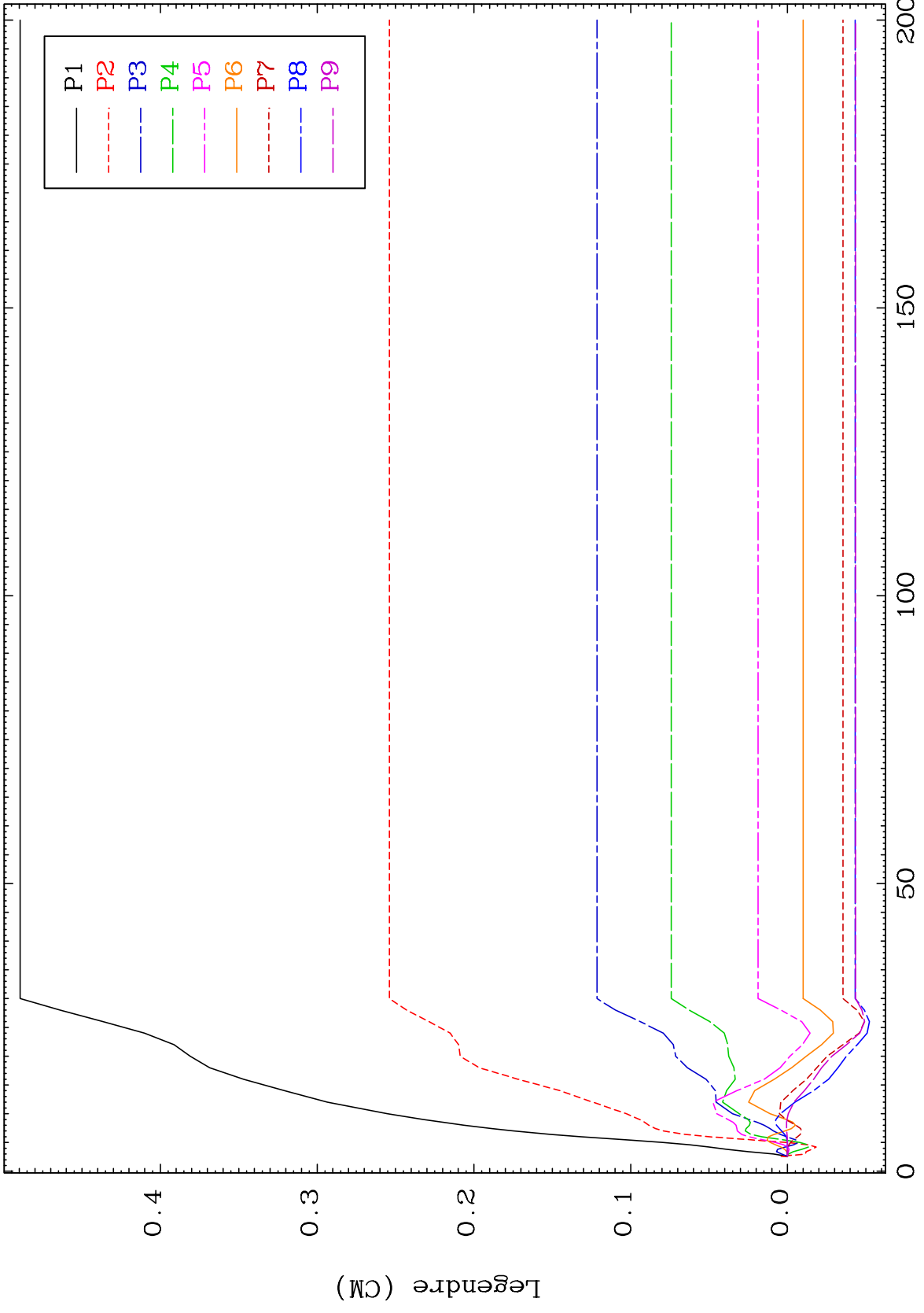
112 Incident Energy (MeV) 40-Zr-89

MAT 4022 MT= 75 (n,n') Level Legendre Coefficients 40-Zr-89

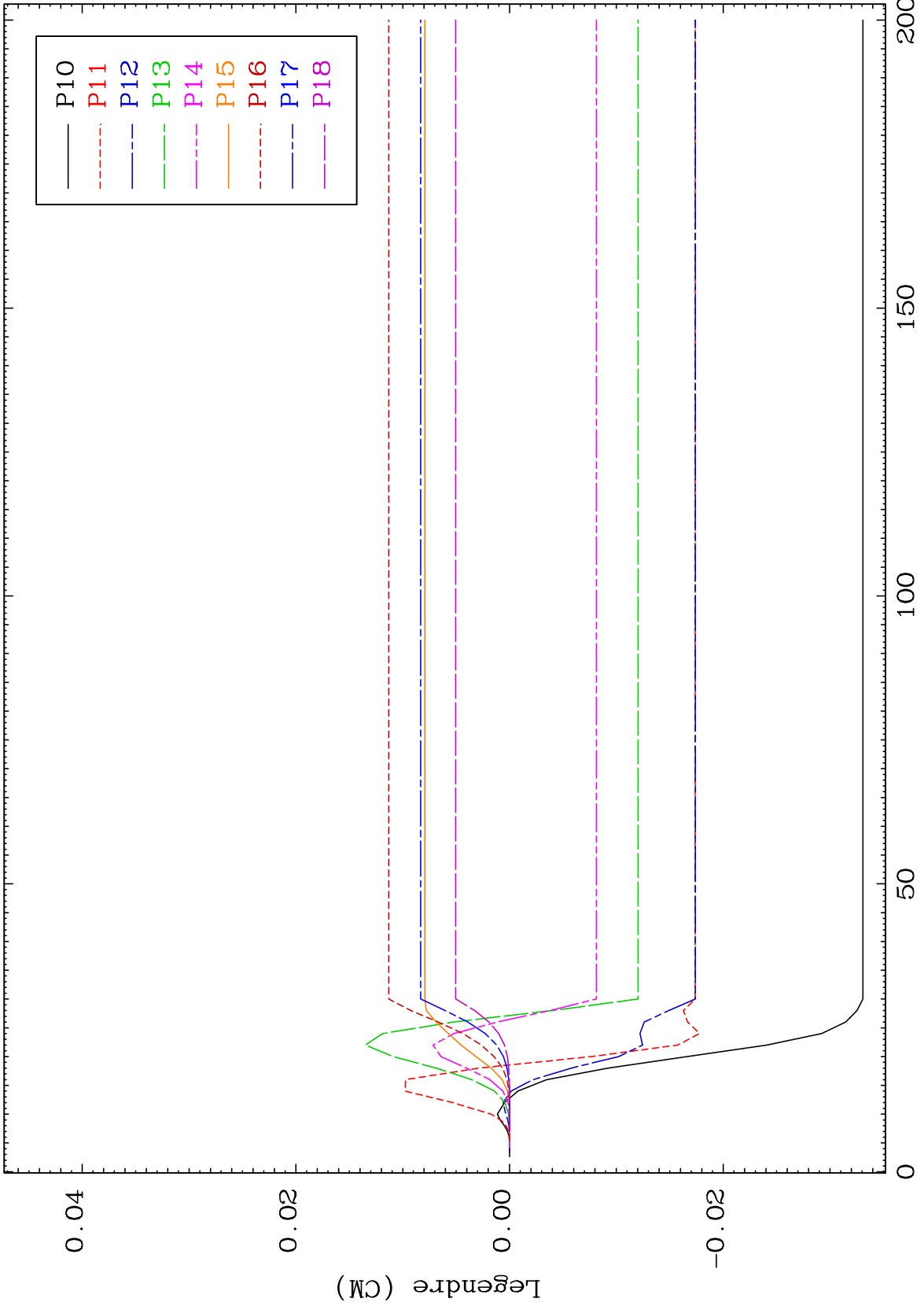


113 40-Zr-89

MAT 4022 MT= 76 (n,n') Level Legendre Coefficients 40-Zr-89



MAT 4022 MT= 76 (n,n') Level Legendre Coefficients 40-Zr-89

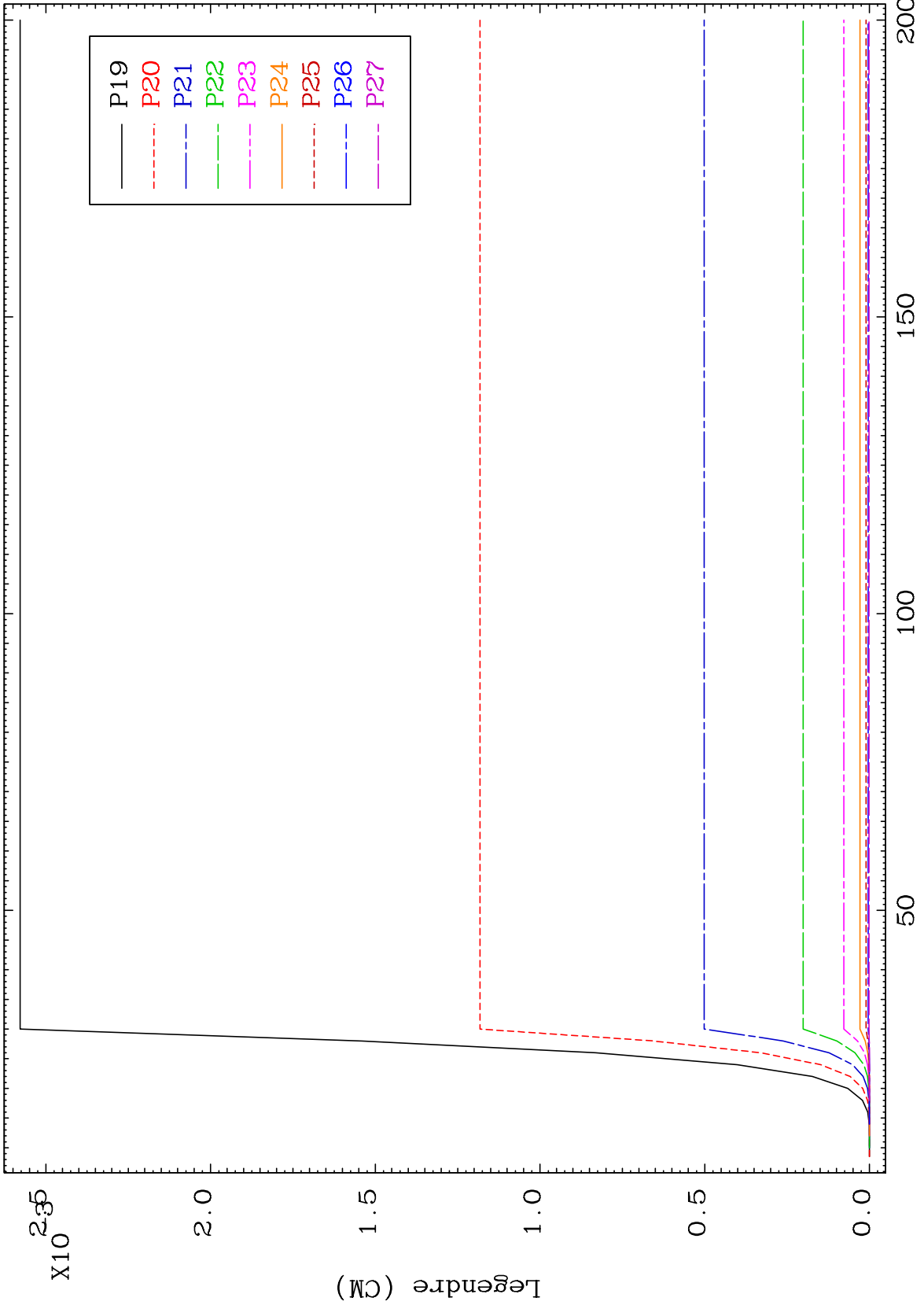


115 Incident Energy (MeV) 40-Zr-89

MAT 4022

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

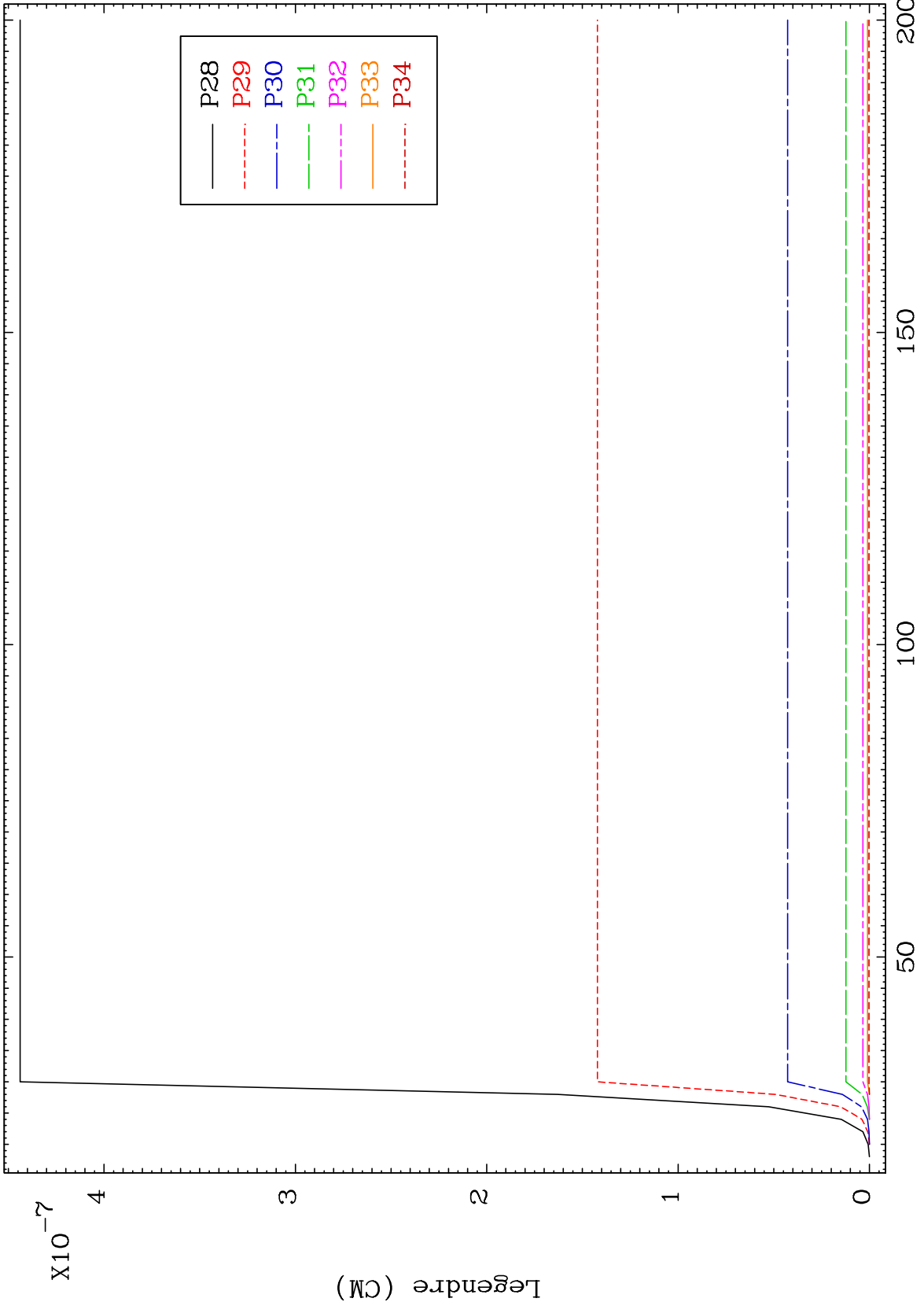
40-Zr-89



116

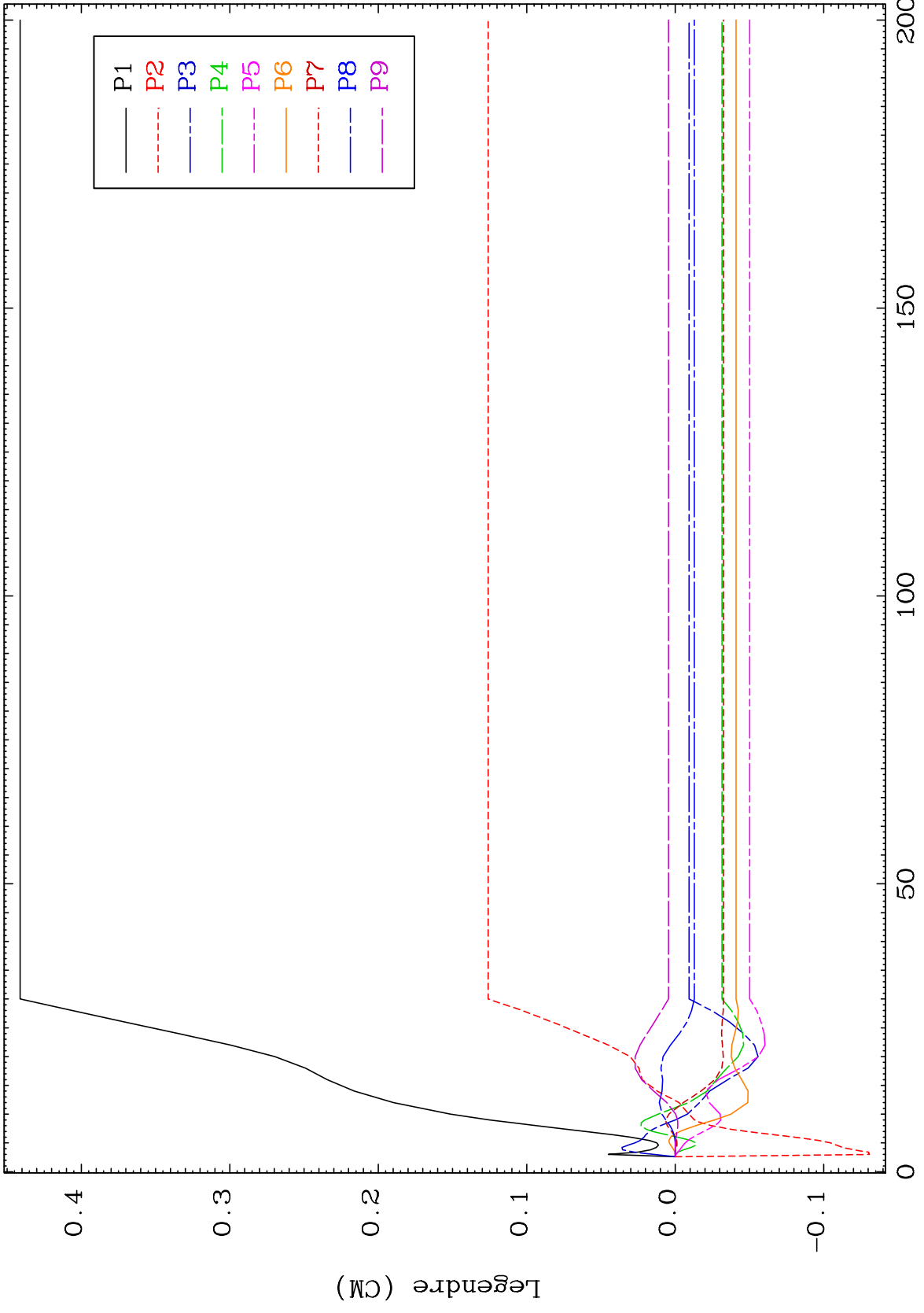
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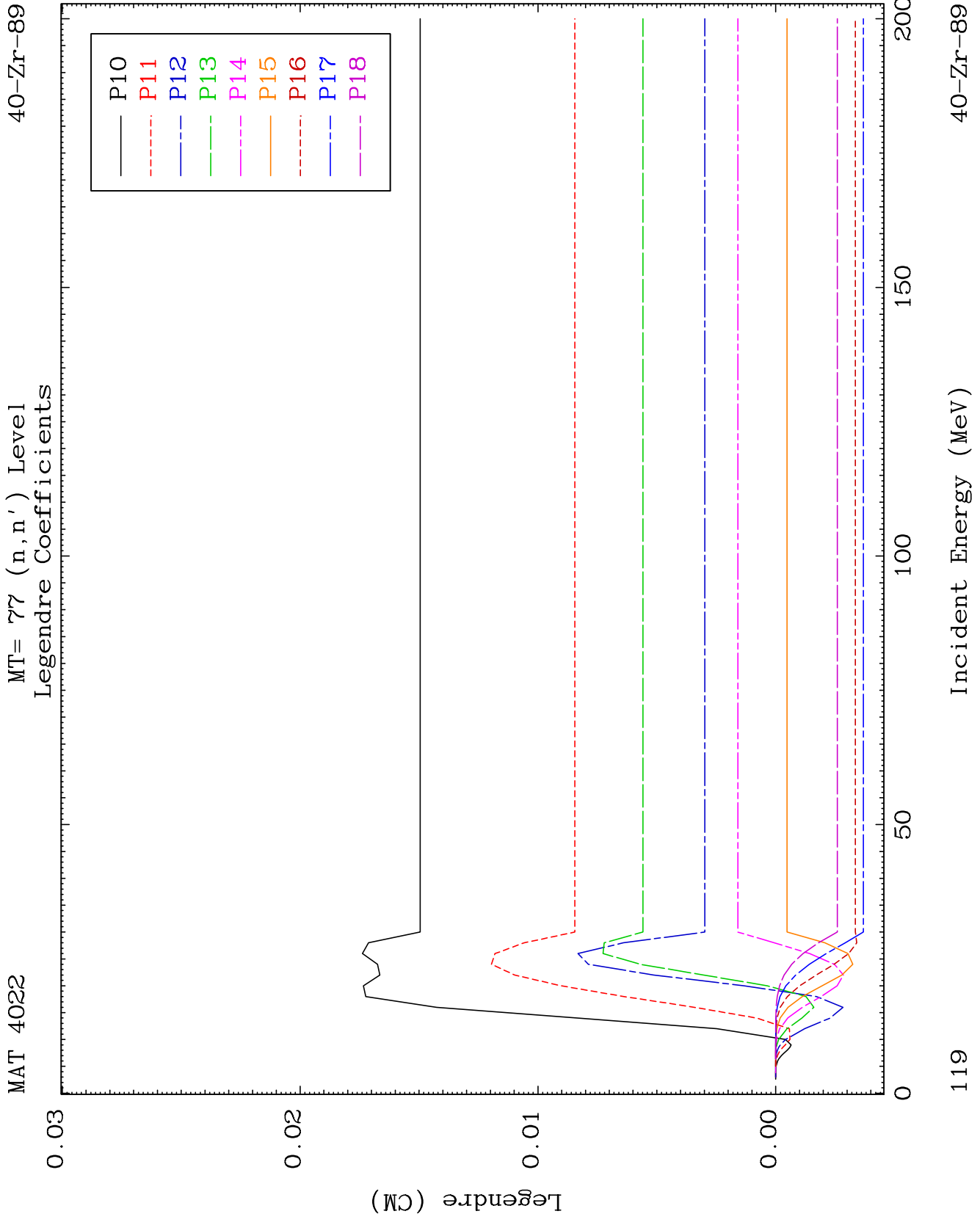
MAT 4022 MT= 76 (n,n') Level Legendre Coefficients 40-Zr-89



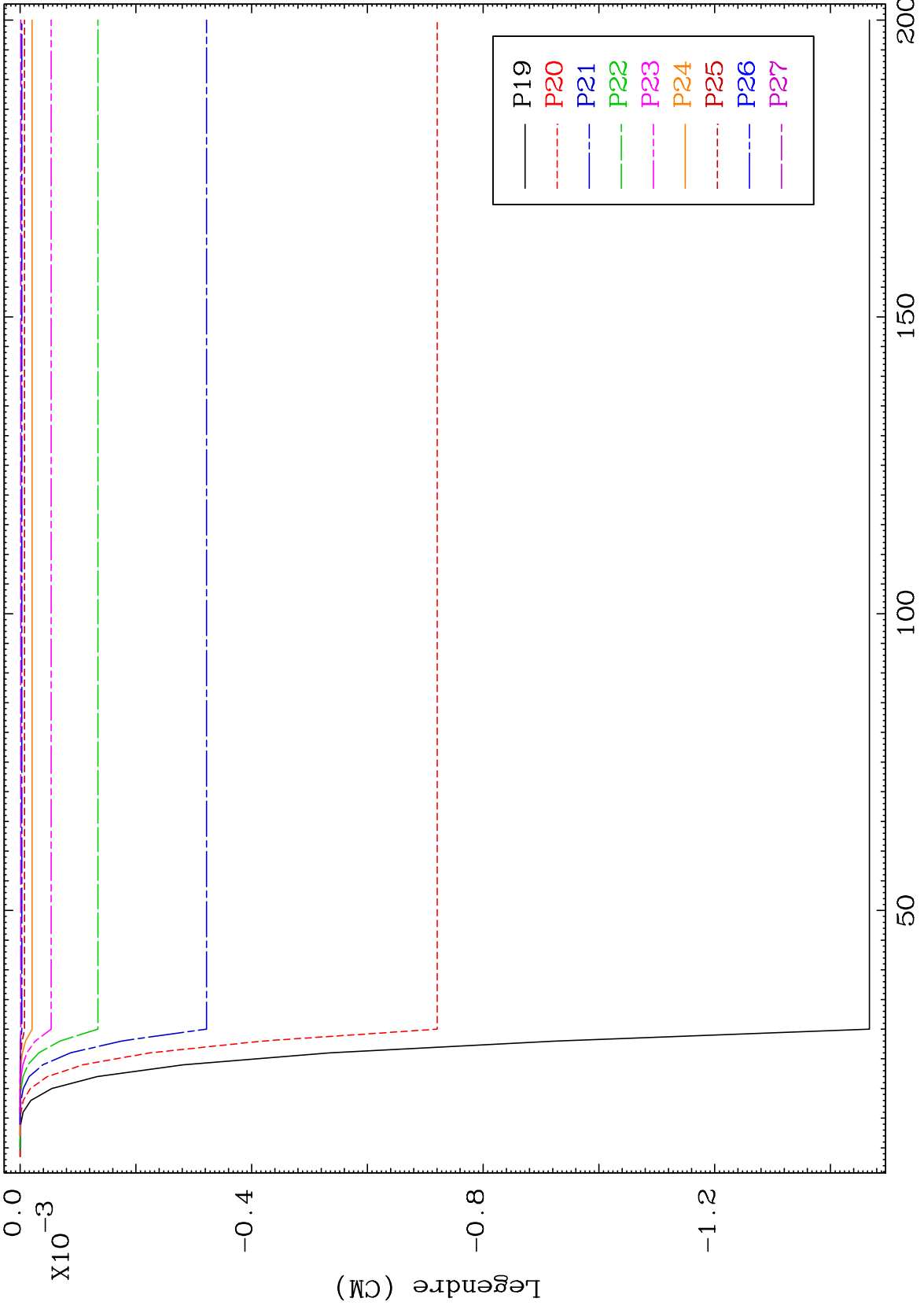
117 40-Zr-89

MAT 4022 MT= 77 (n,n') Level Legendre Coefficients 40-Zr-89



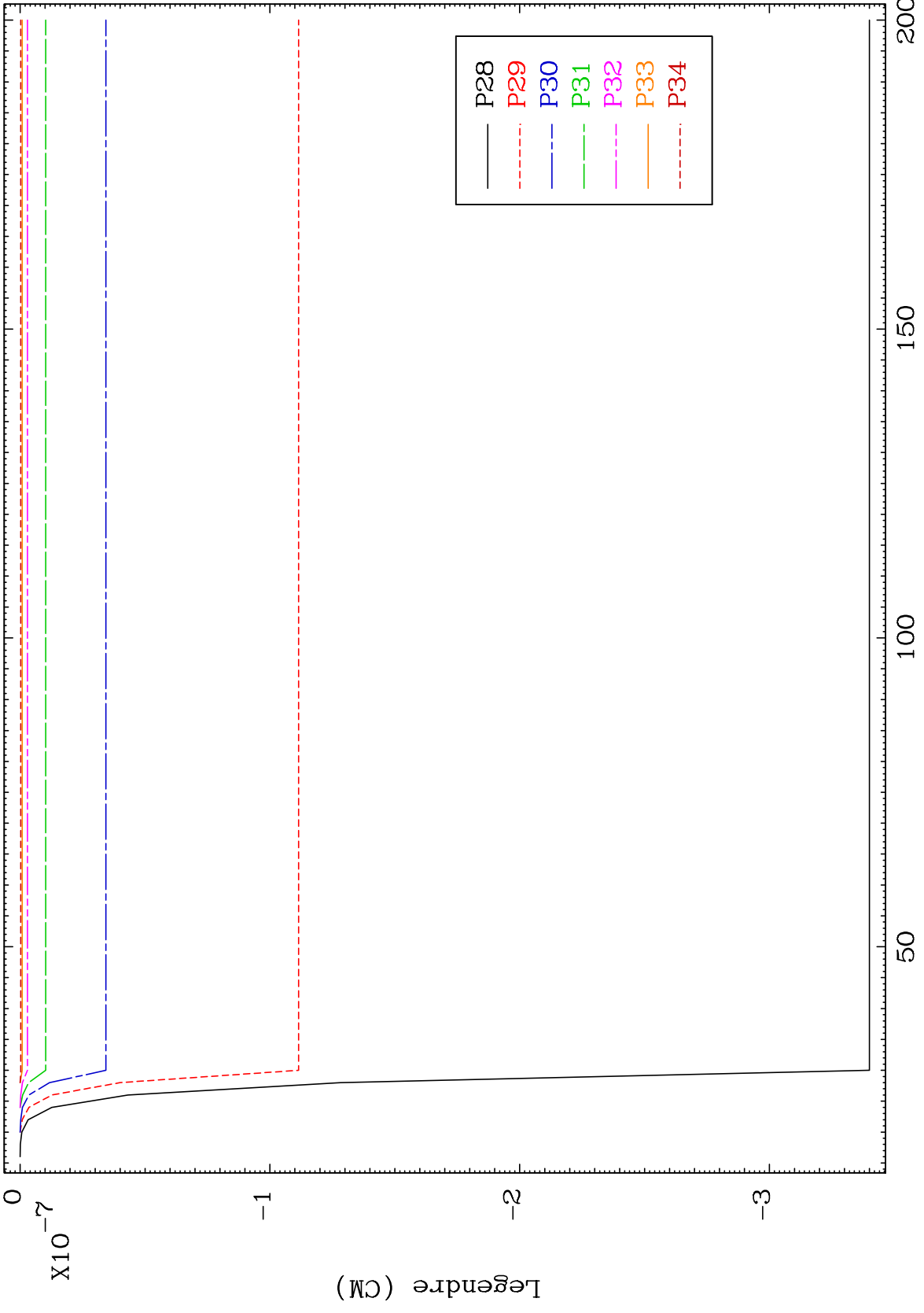


MAT 4022 MT= 77 (n,n') Level Legendre Coefficients 40-Zr-89



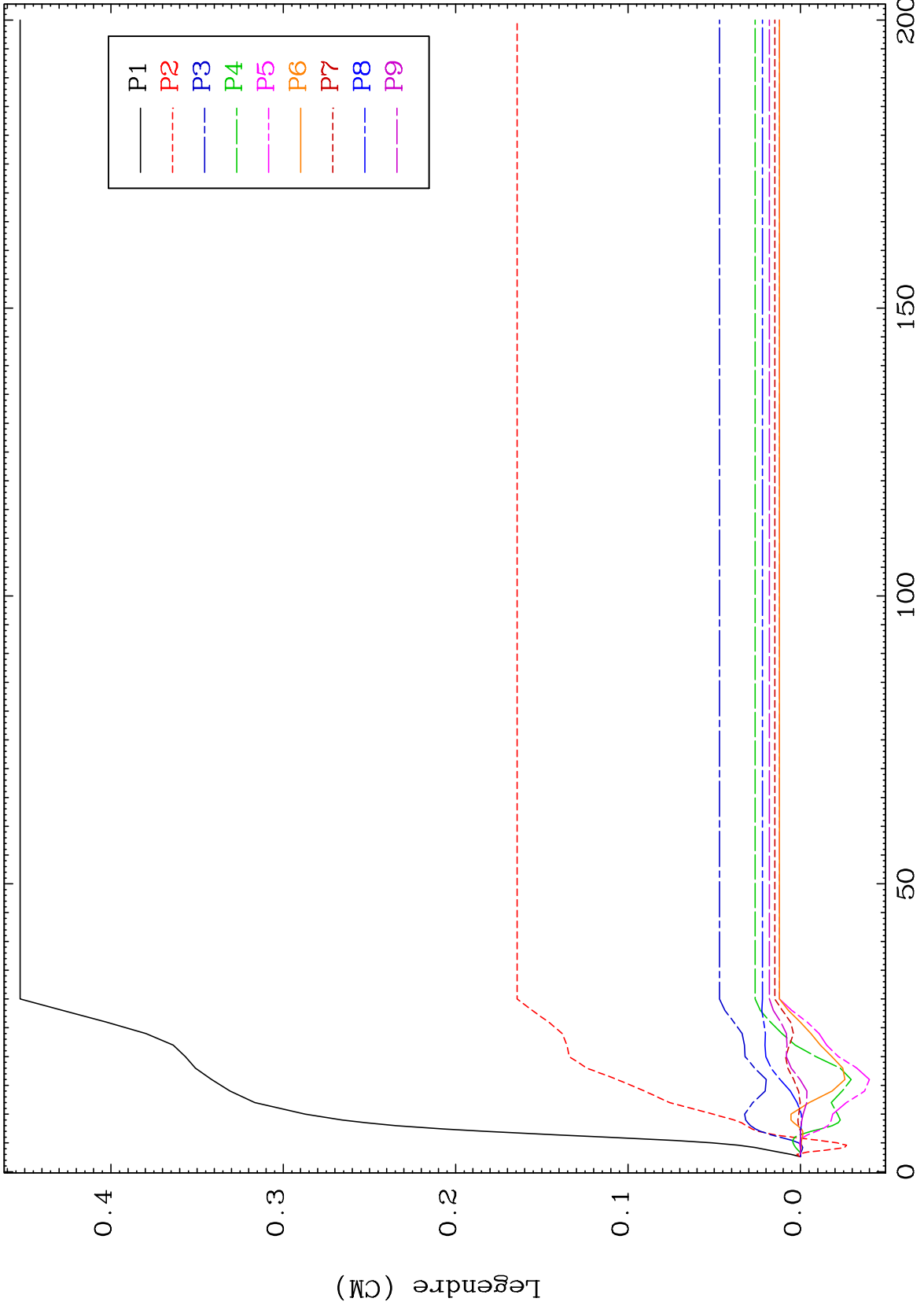
120 Incident Energy (MeV) 200 40-Zr-89

MAT 4022 MT= 77 (n,n') Level Legendre Coefficients 40-Zr-89



121 40-Zr-89

MAT 4022 MT= 78 (n,n') Level Legendre Coefficients 40-Zr-89

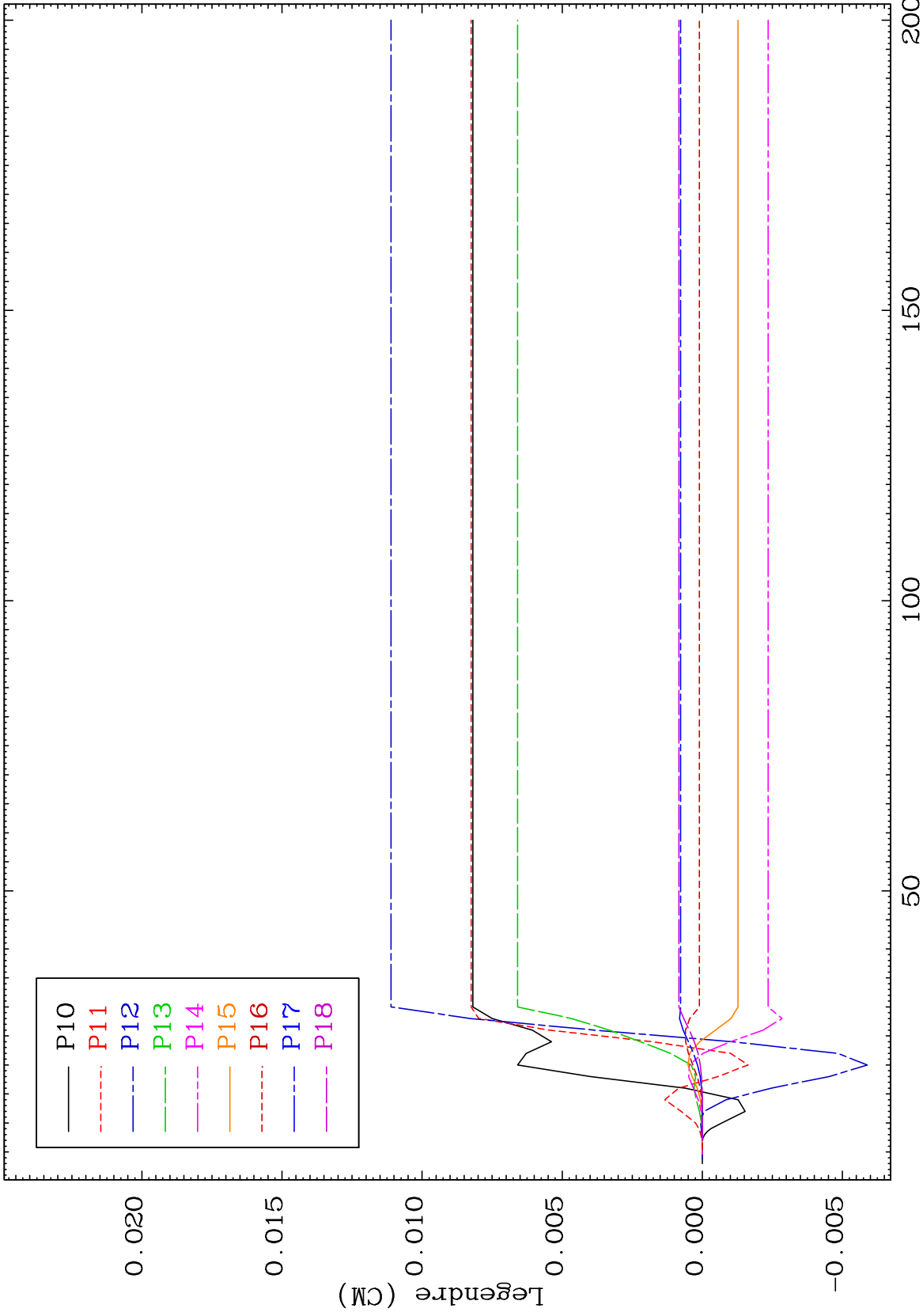


122 Incident Energy (MeV) 40-Zr-89

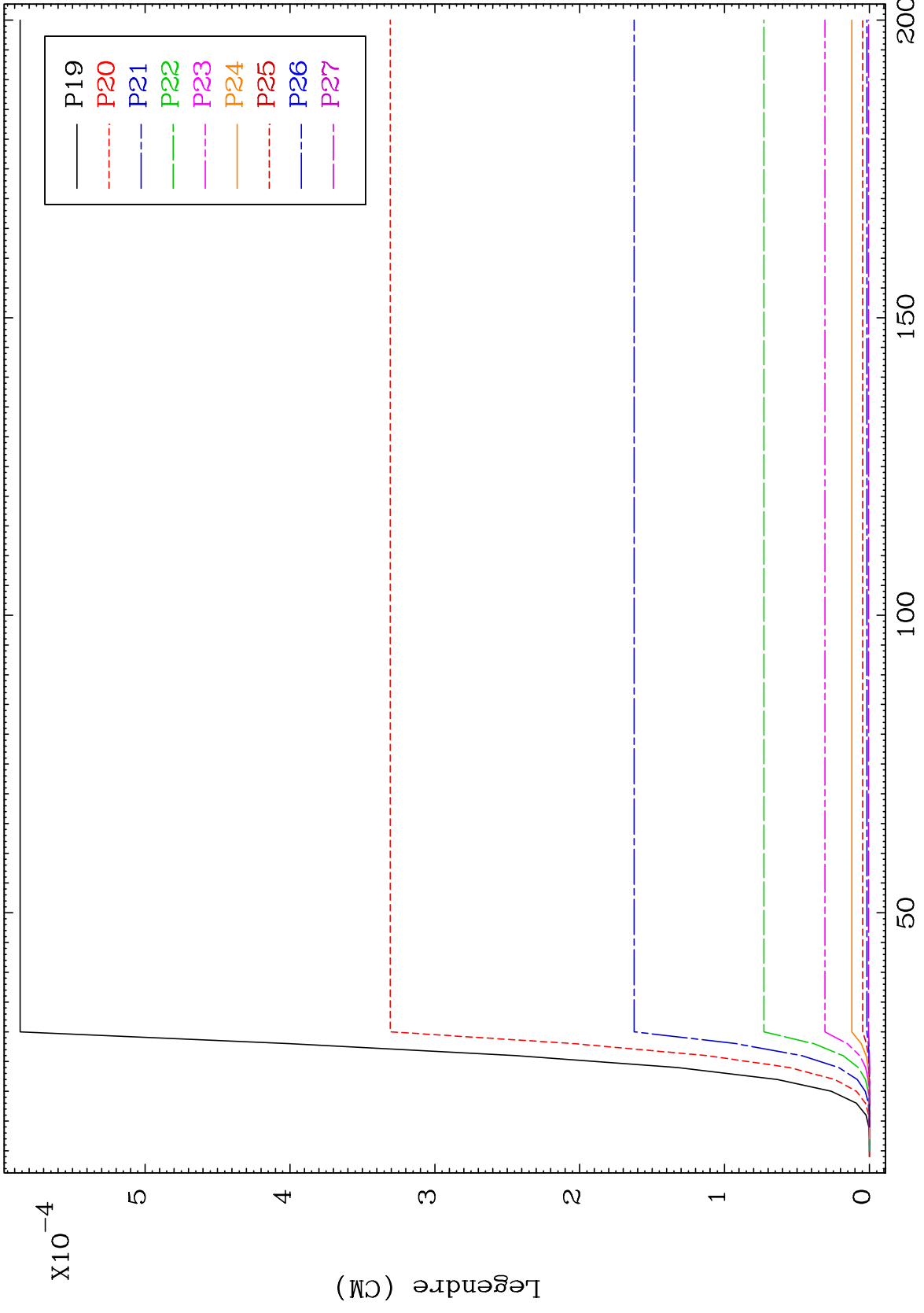
MAT 4022

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

40-Zr-89

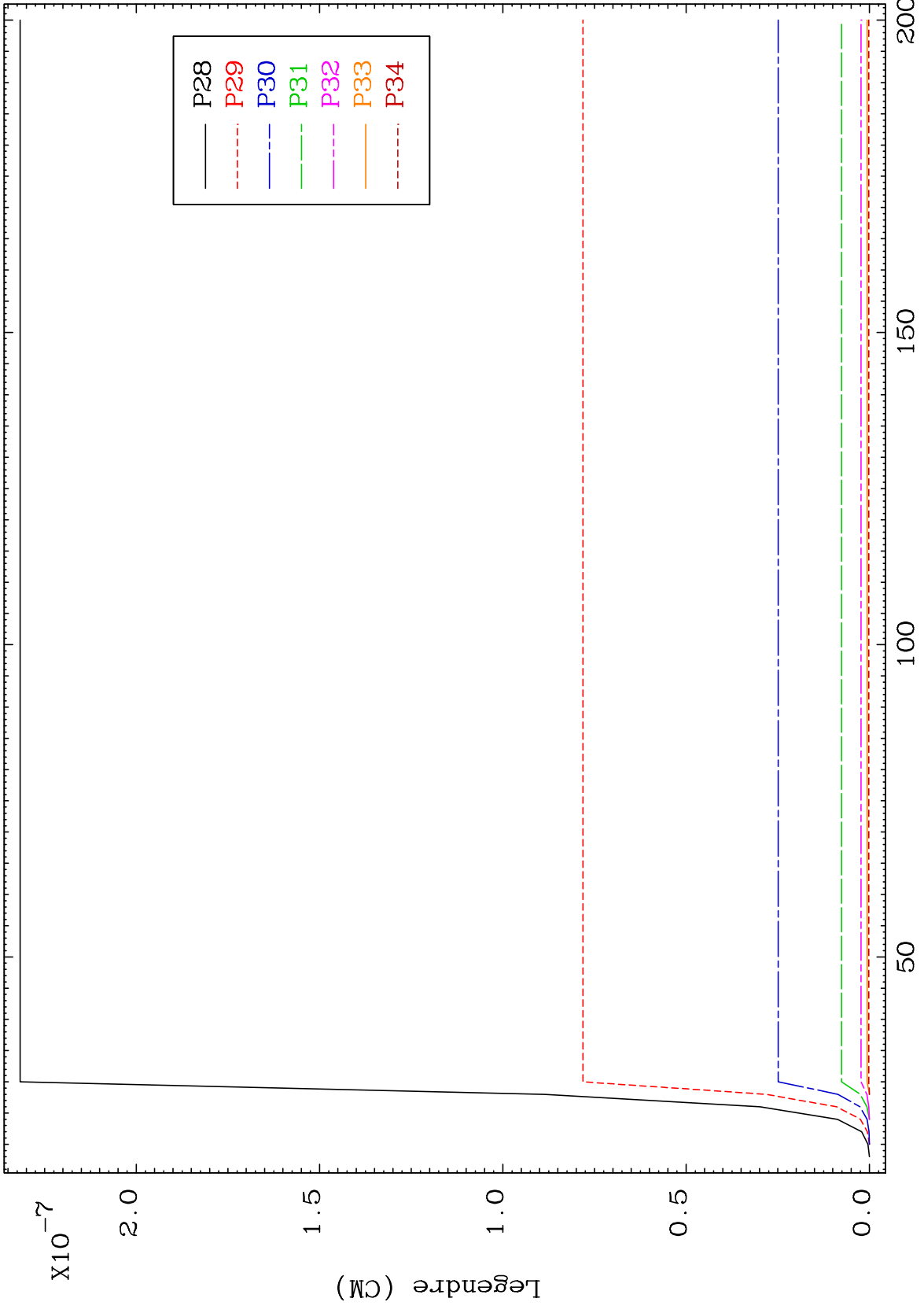


MAT 4022 MT= 78 (n,n') Level Legendre Coefficients 40-Zr-89



124 Incident Energy (MeV) 40-Zr-89

MAT 4022 MT= 78 (n,n') Level Legendre Coefficients 40-Zr-89

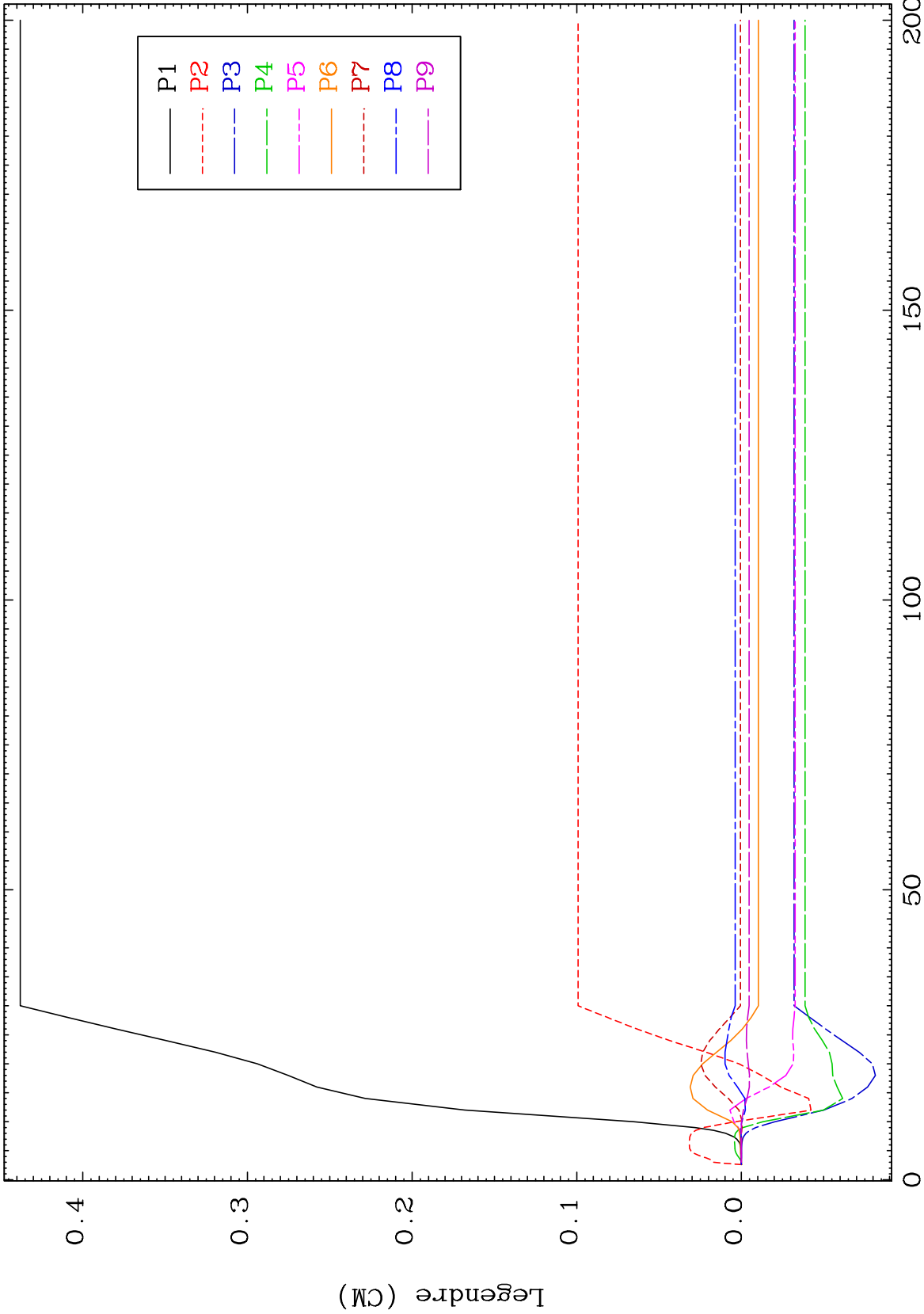


125 50 100 150 200 40-Zr-89

MAT 4022

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

40-Zr-89



126

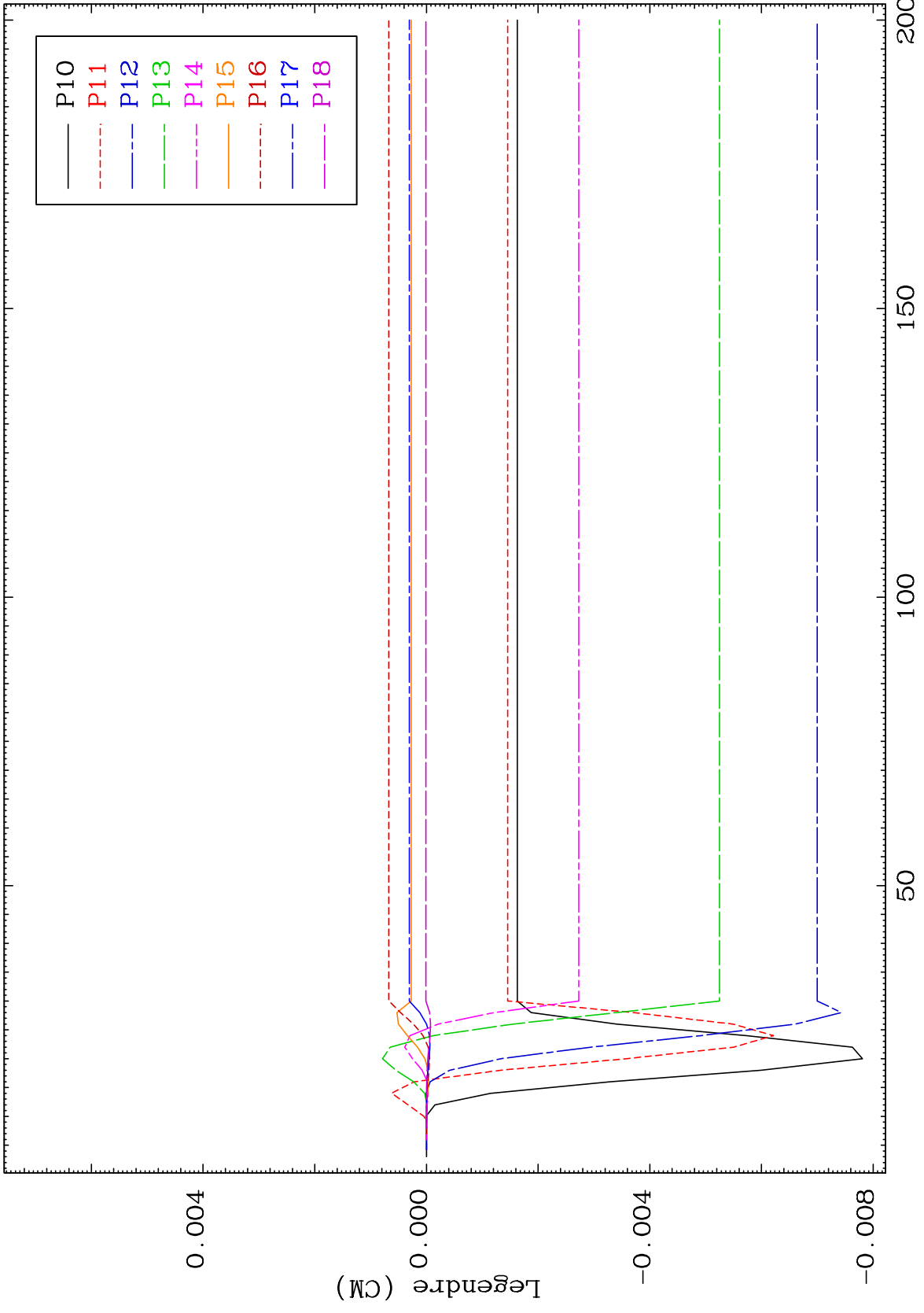
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89



127

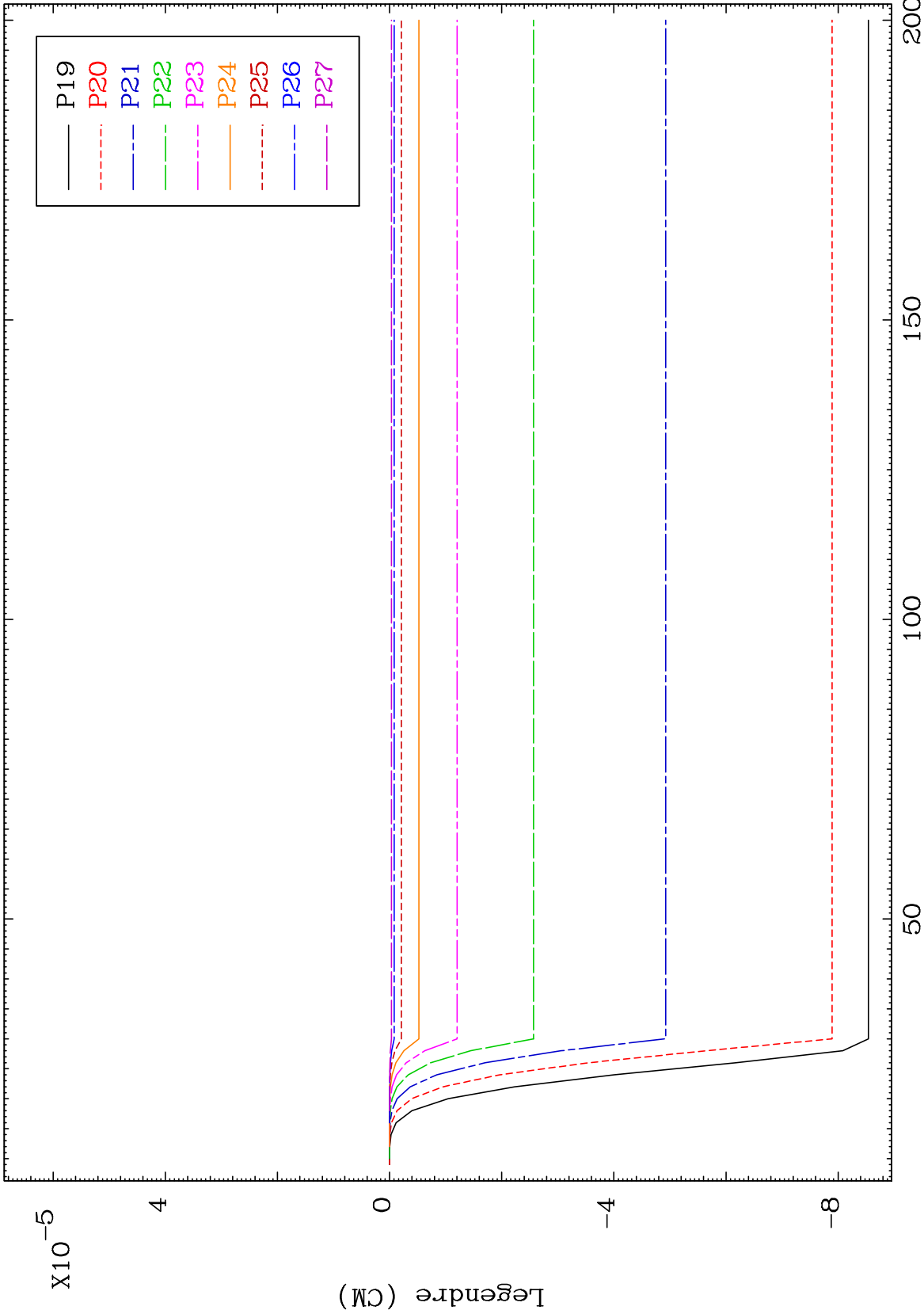
Incident Energy (MeV)

40-Zr-89

MAT 4022

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

40-Zr-89

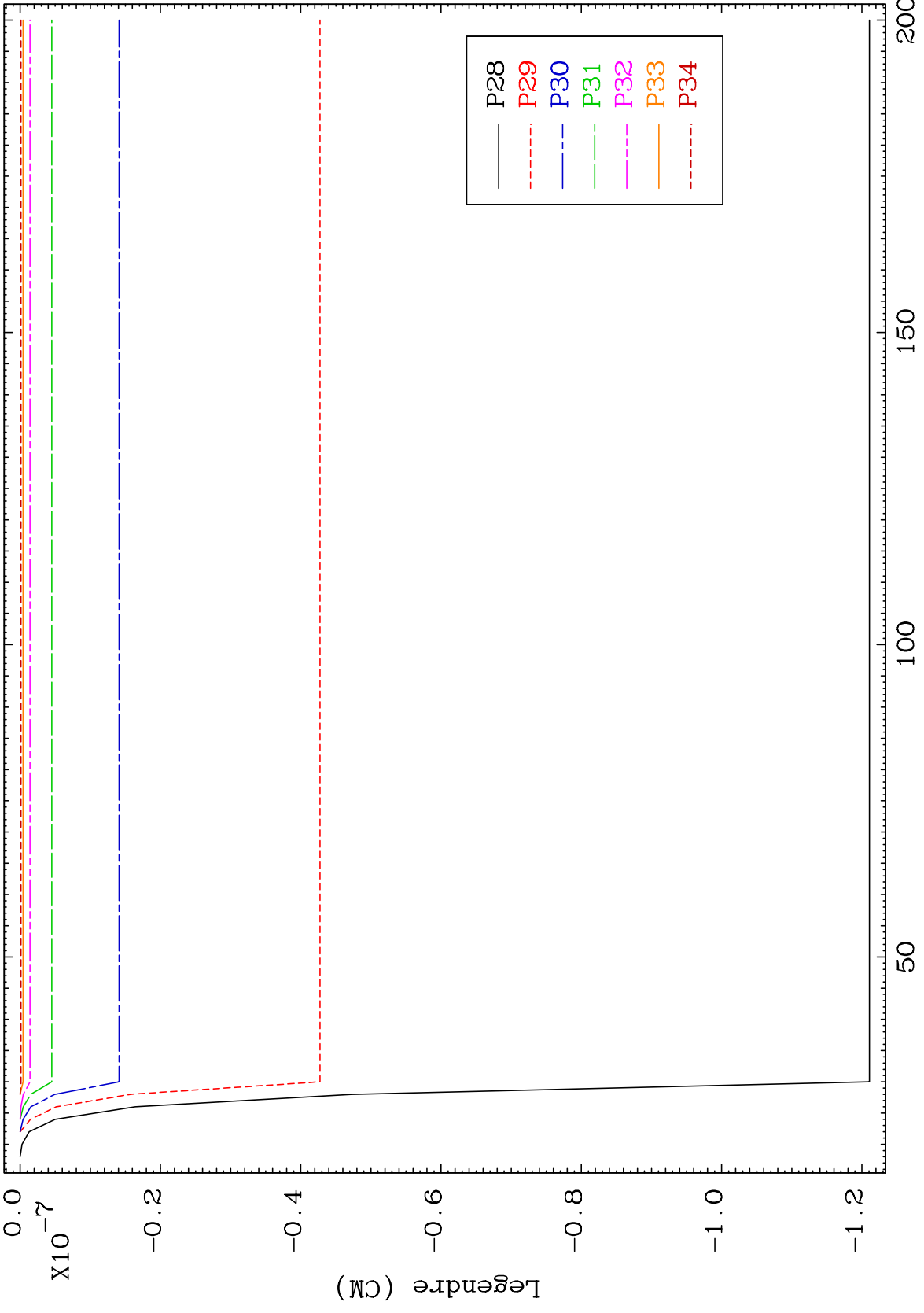


128

Incident Energy (MeV)

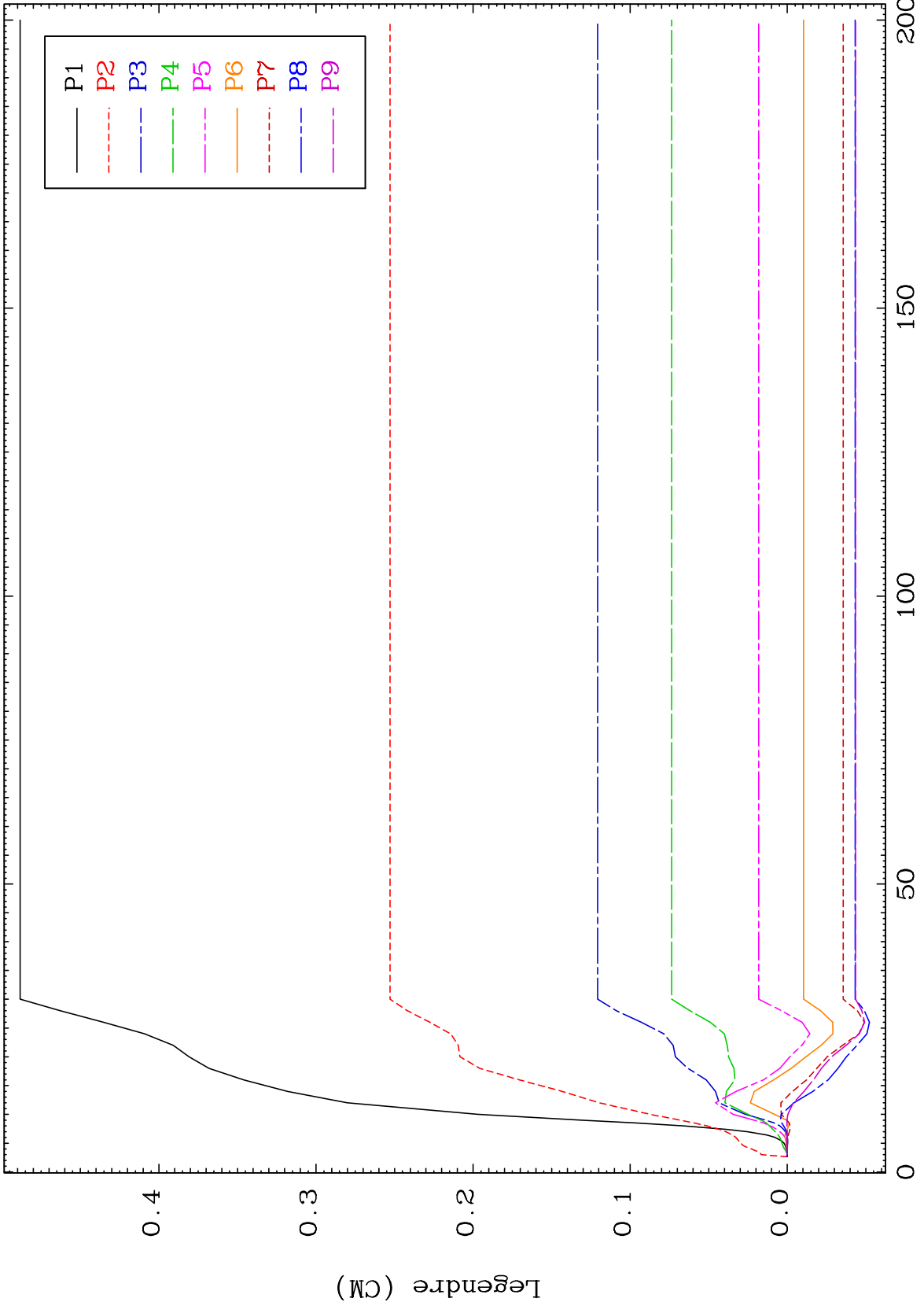
40-Zr-89

MAT 4022 MT= 79 (n,n') Level Legendre Coefficients 40-Zr-89



129 40-Zr-89

MAT 4022 MT= 80 (n,n') Level Legendre Coefficients 40-Zr-89

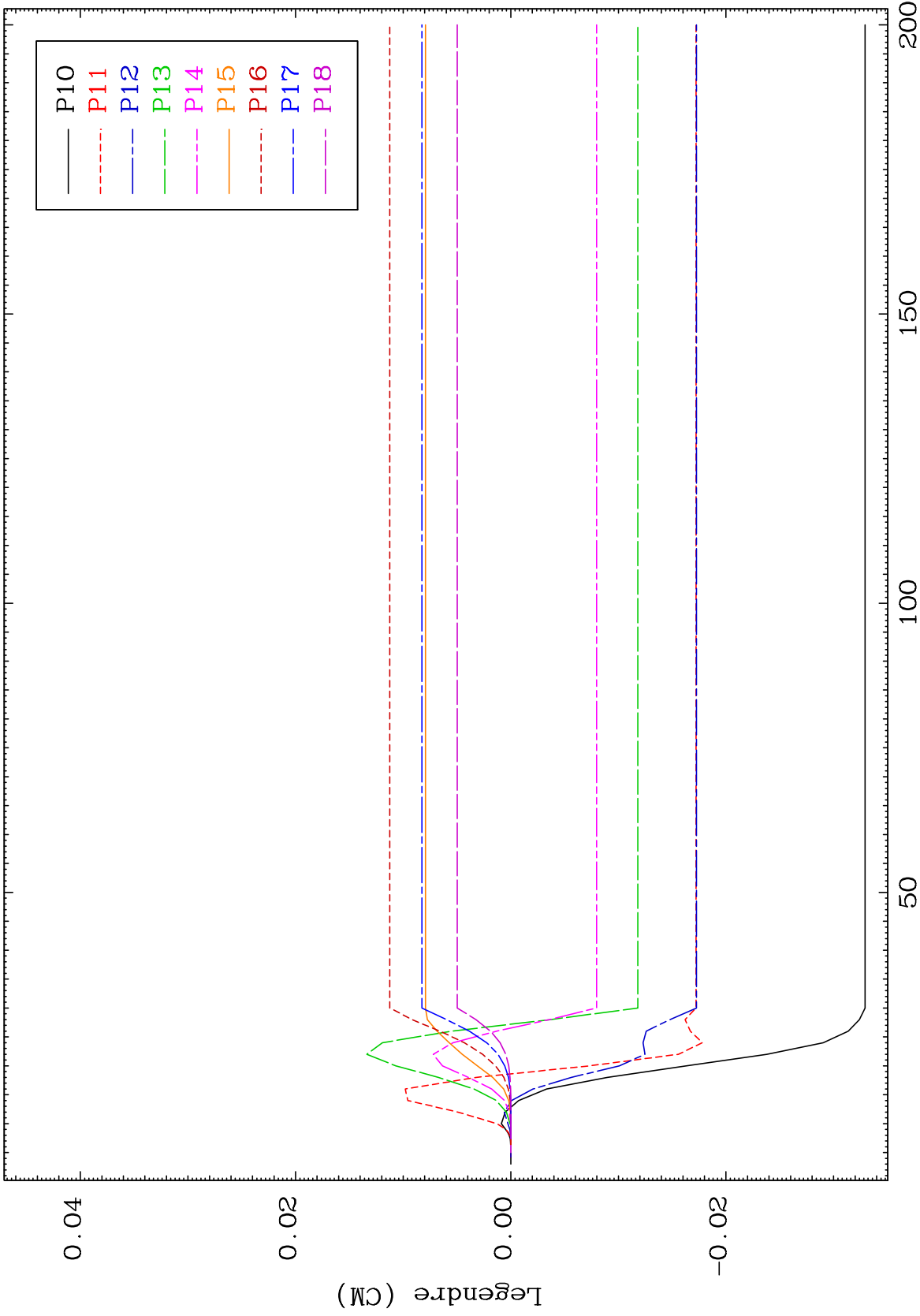


130 Incident Energy (MeV) 40-Zr-89

MAT 4022

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

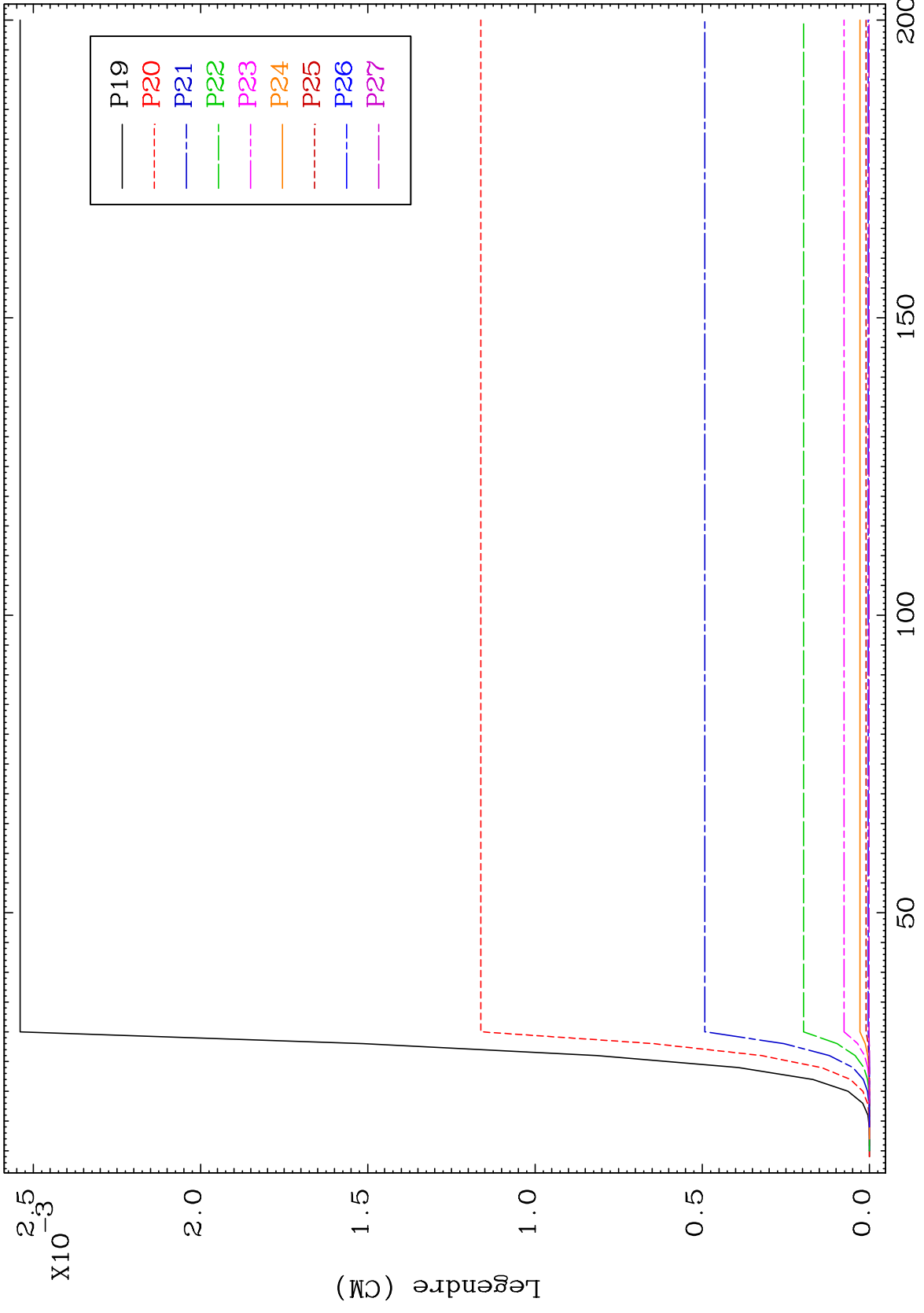
40-Zr-89



131

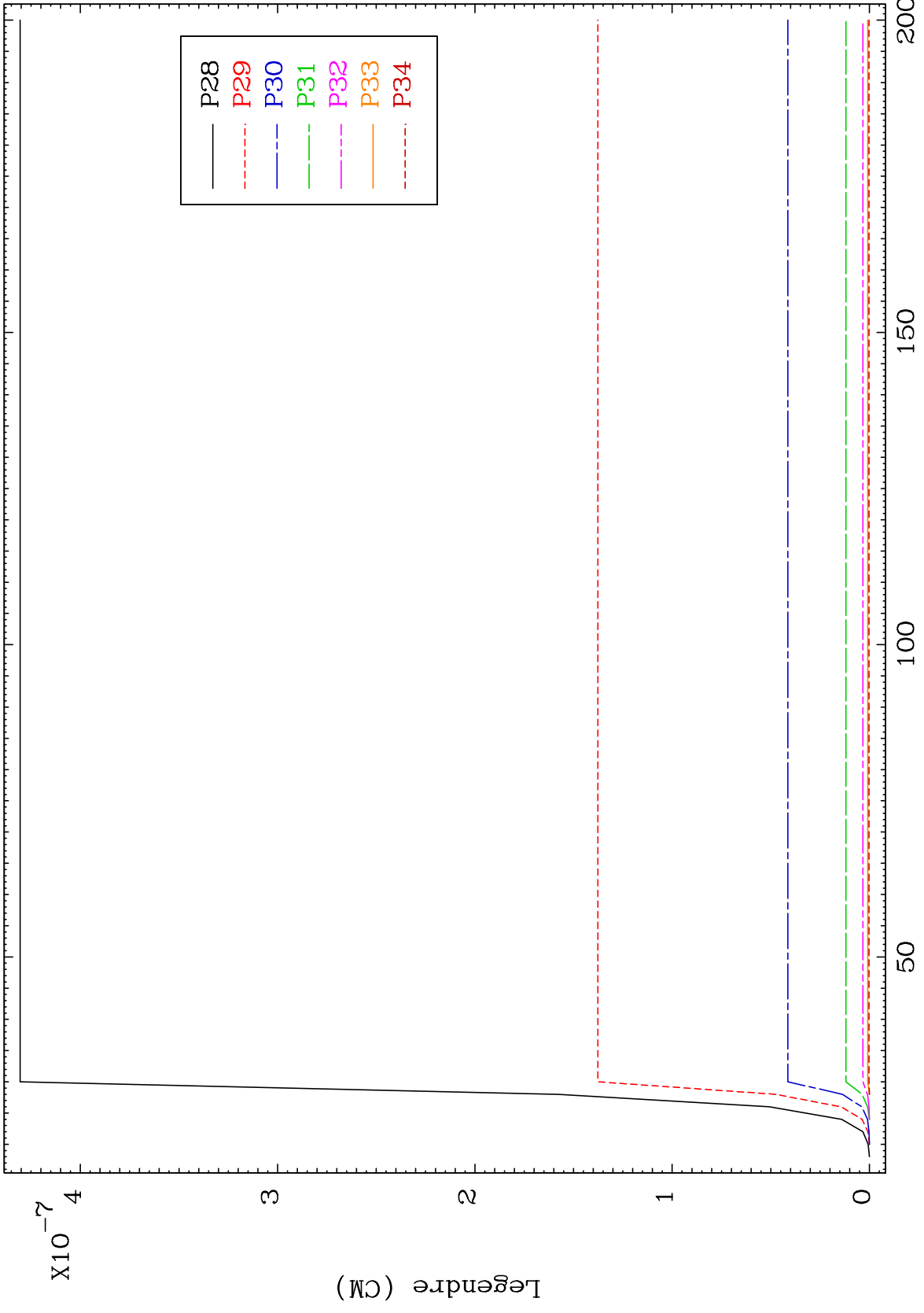
40-Zr-89

MAT 4022 MT= 80 (n,n') Level Legendre Coefficients 40-Zr-89



132 40-Zr-89

MAT 4022 MT= 80 (n,n') Level Legendre Coefficients 40-Zr-89

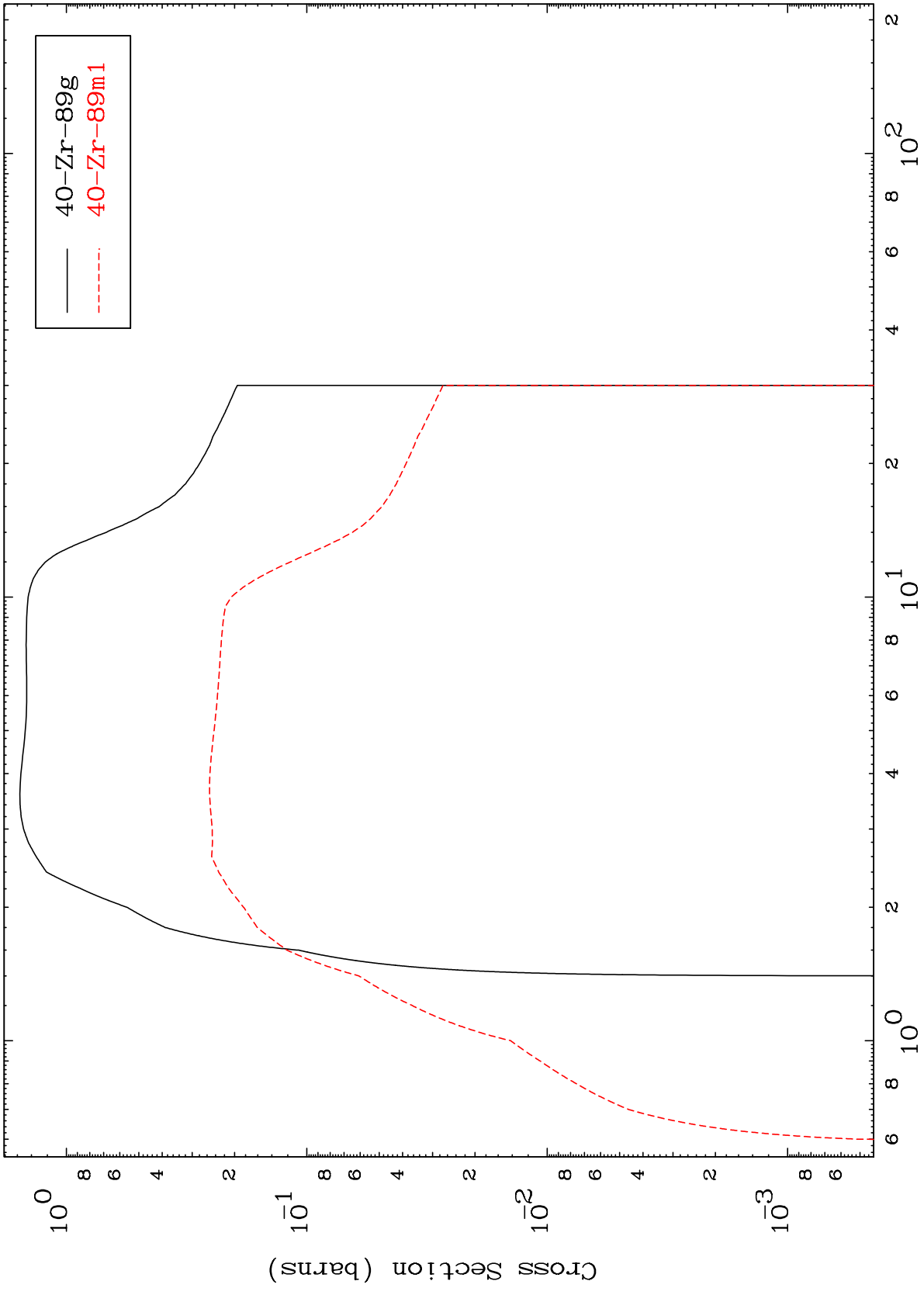


133 Incident Energy (MeV) 40-Zr-89

MAT 4022

40-Zr-89

Inelastic Radionuclide Production Cross Section



134

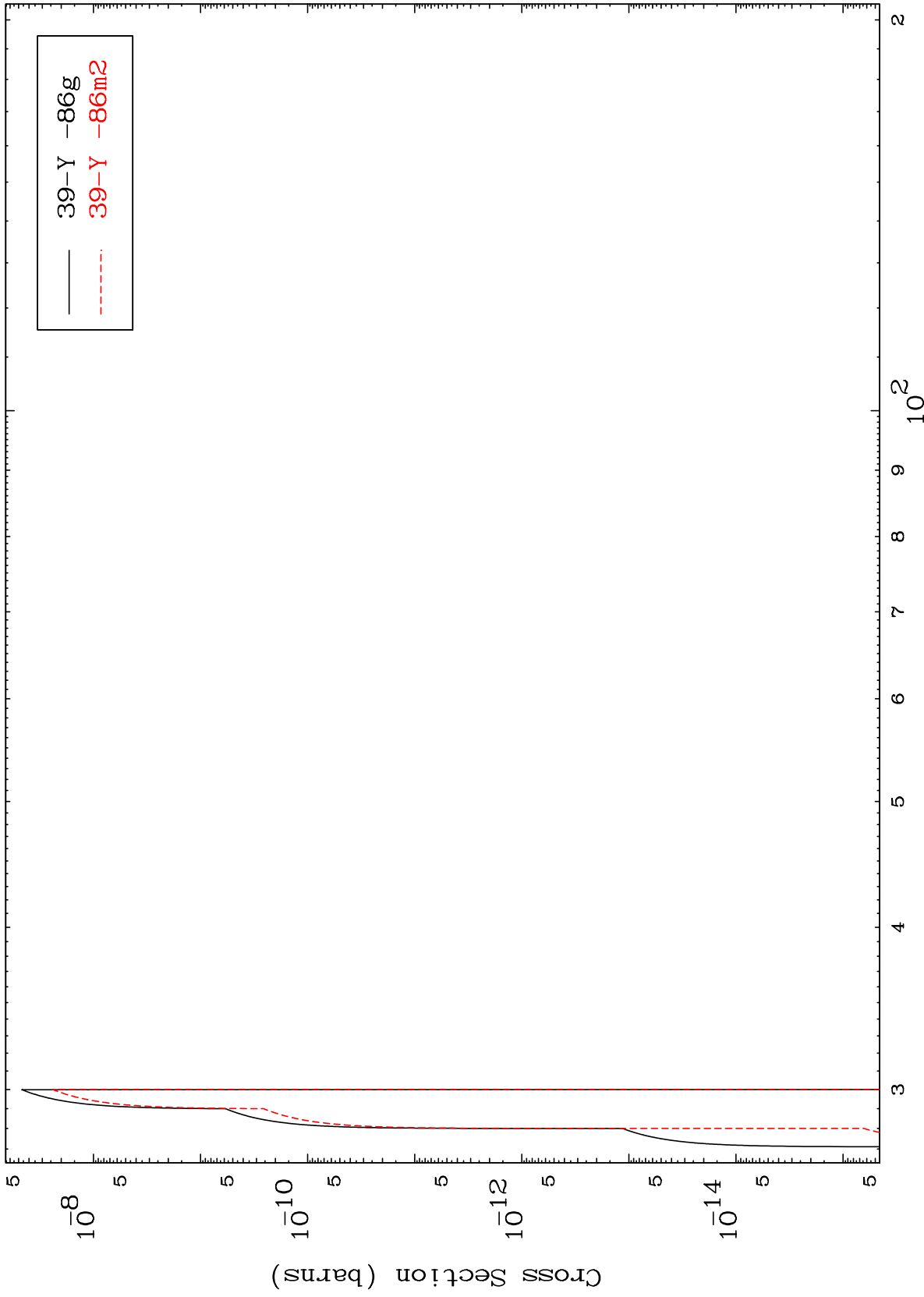
40-Zr-89

MAT 4022

(n,2n) d

40-Zr-89

Radionuclide Production Cross Section



40-Zr-89

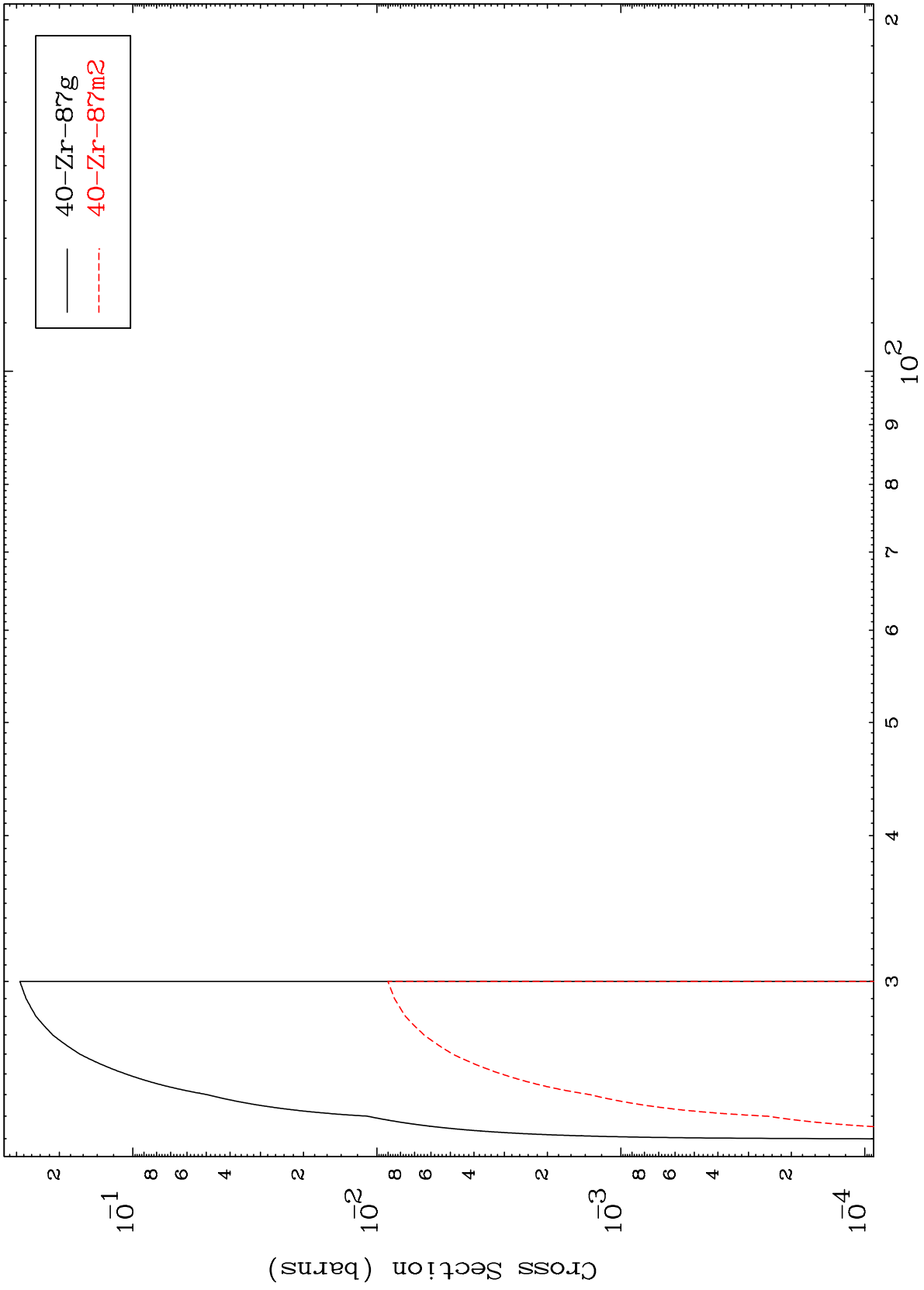
Incident Energy (MeV)

135

MAT 4022

40-Zr-89

(n,3n)
Radionuclide Production Cross Section



136

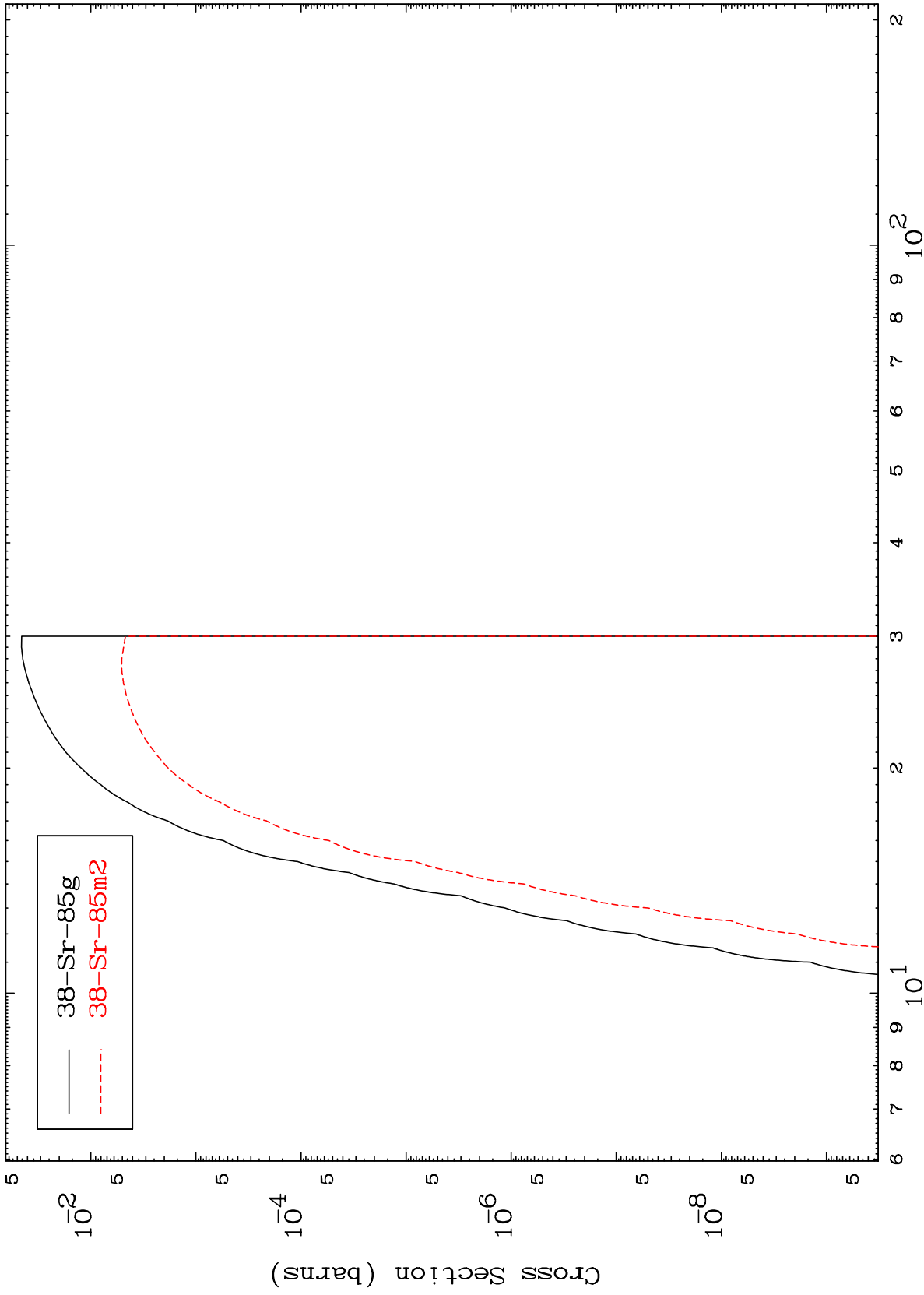
40-Zr-89

MAT 4022

(n,n') α

40-Zr-89

Radionuclide Production Cross Section

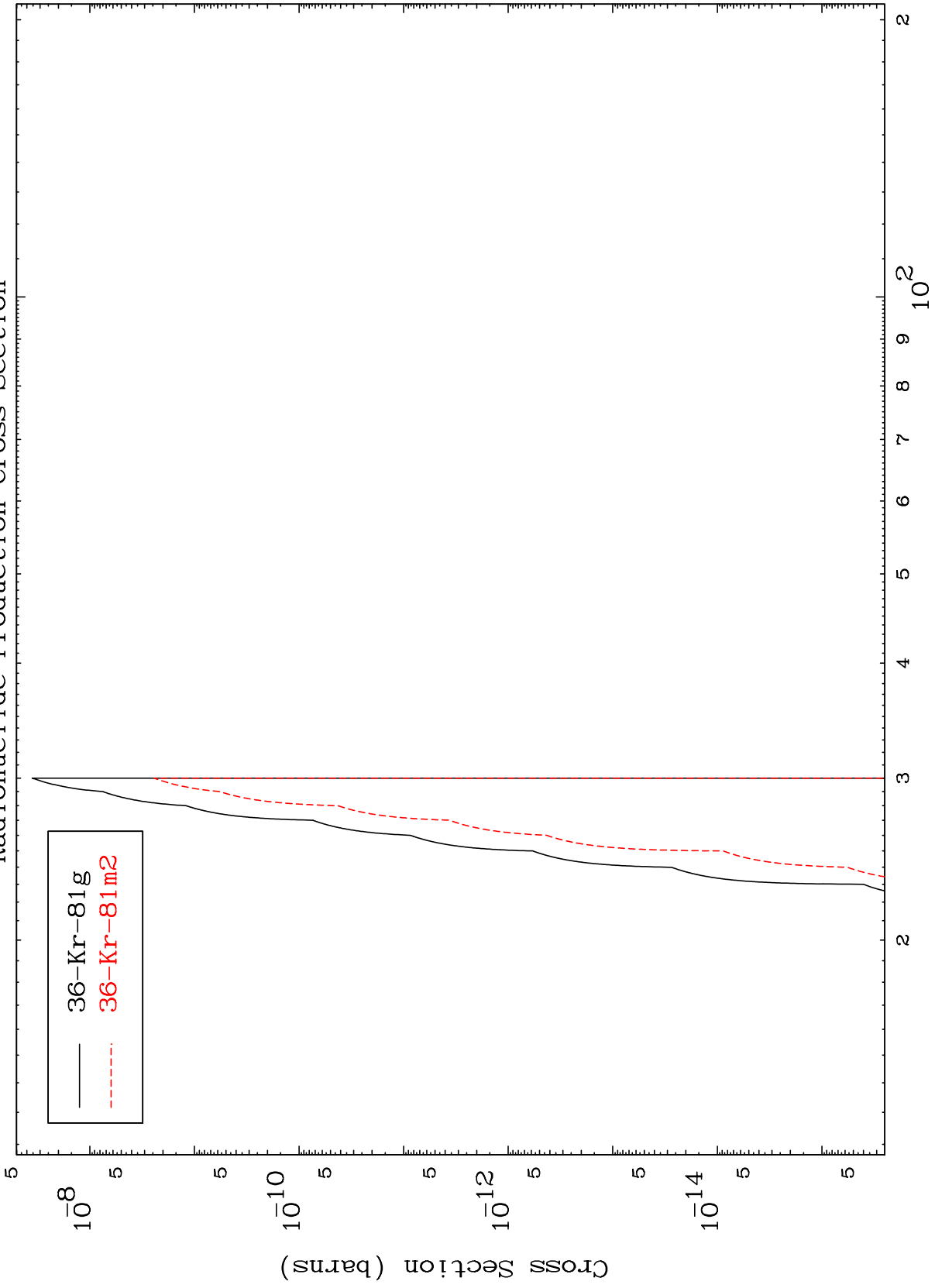


MAT 4022

(n,n') 2 α

40-Zr-89

Radionuclide Production Cross Section



138

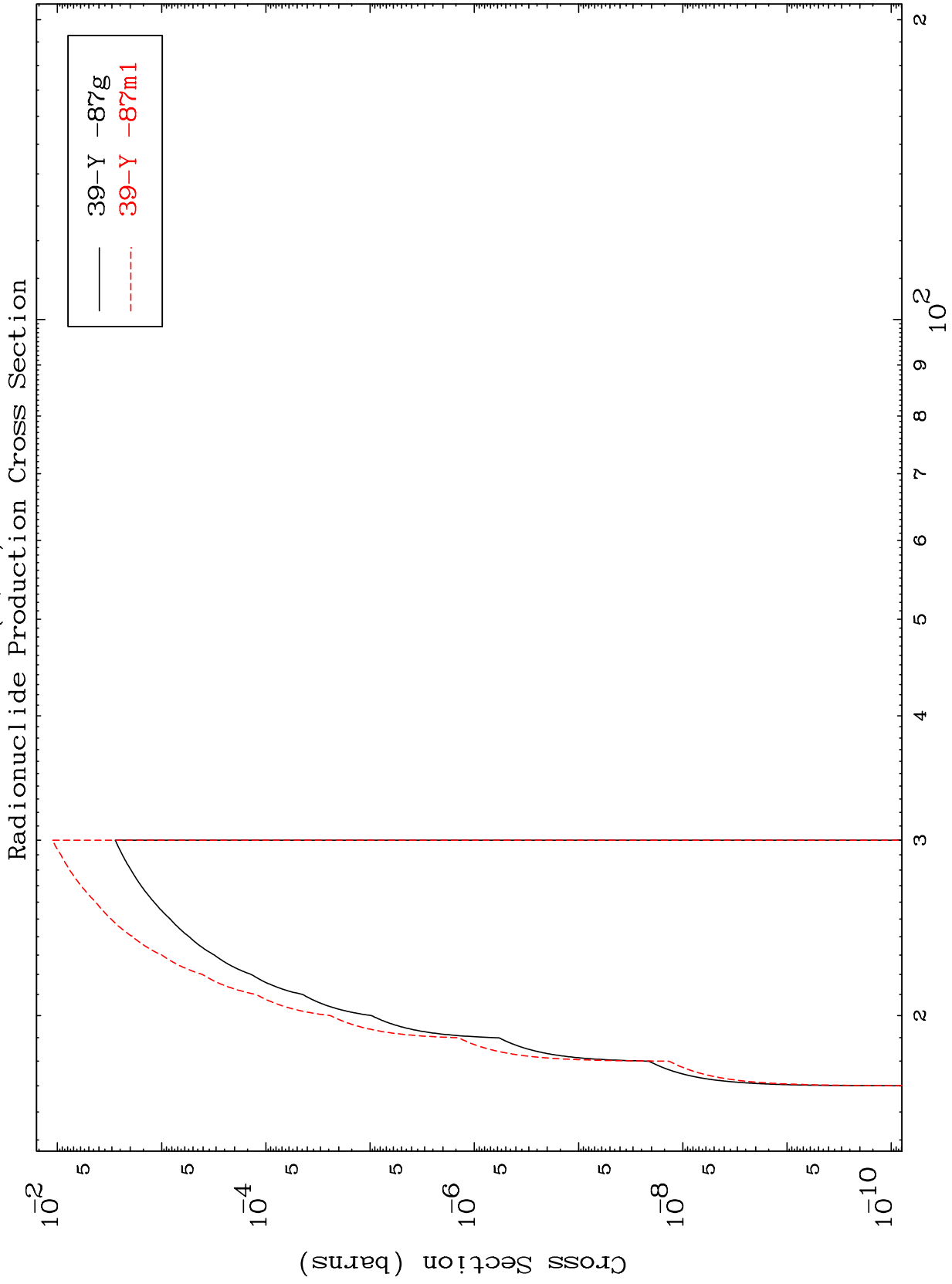
Incident Energy (MeV)

40-Zr-89

MAT 4022

(n,n') d

40-Zr-89



139

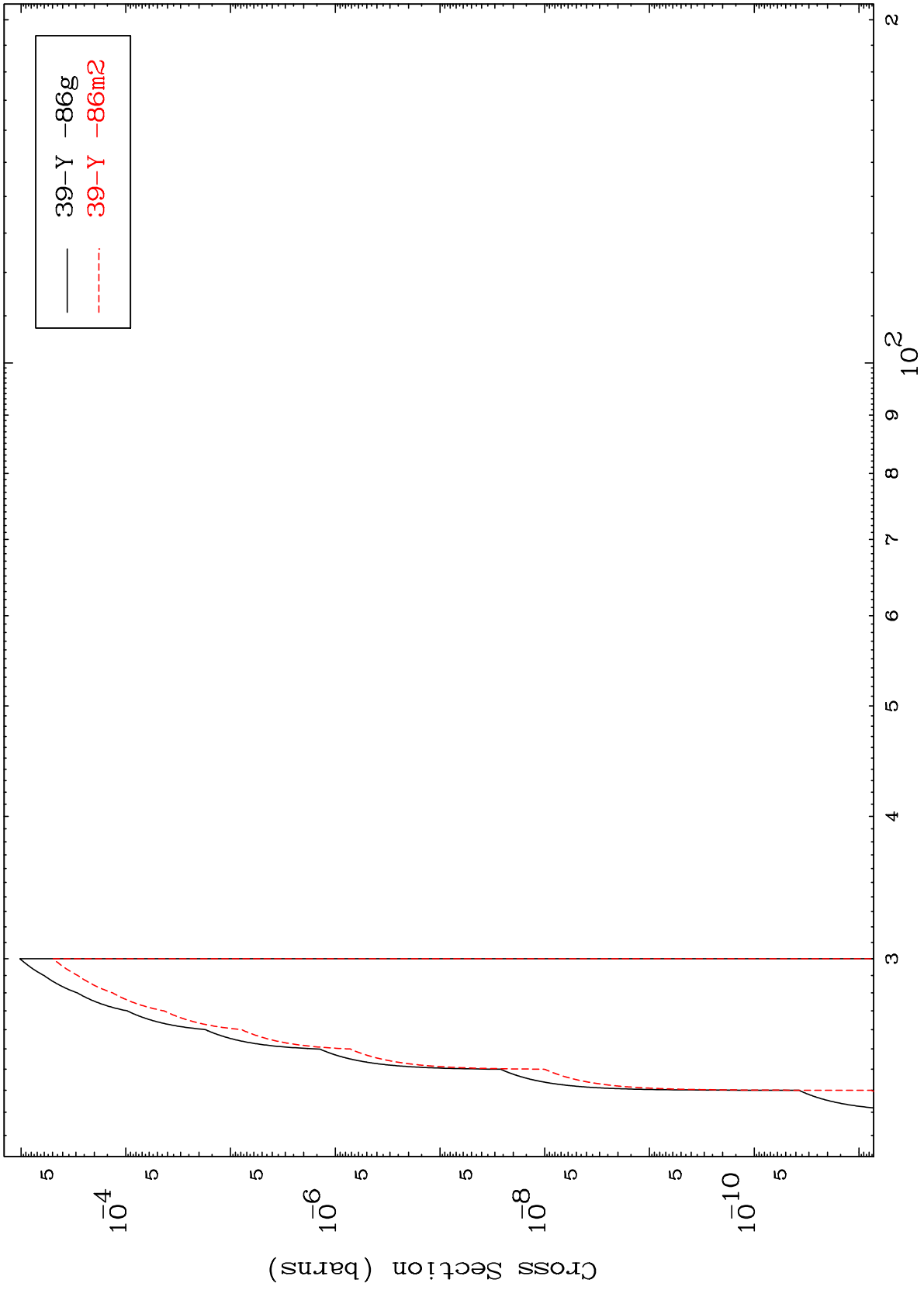
40-Zr-89

MAT 4022

(n,n') t

40-Zr-89

Radionuclide Production Cross Section



140

Incident Energy (MeV)

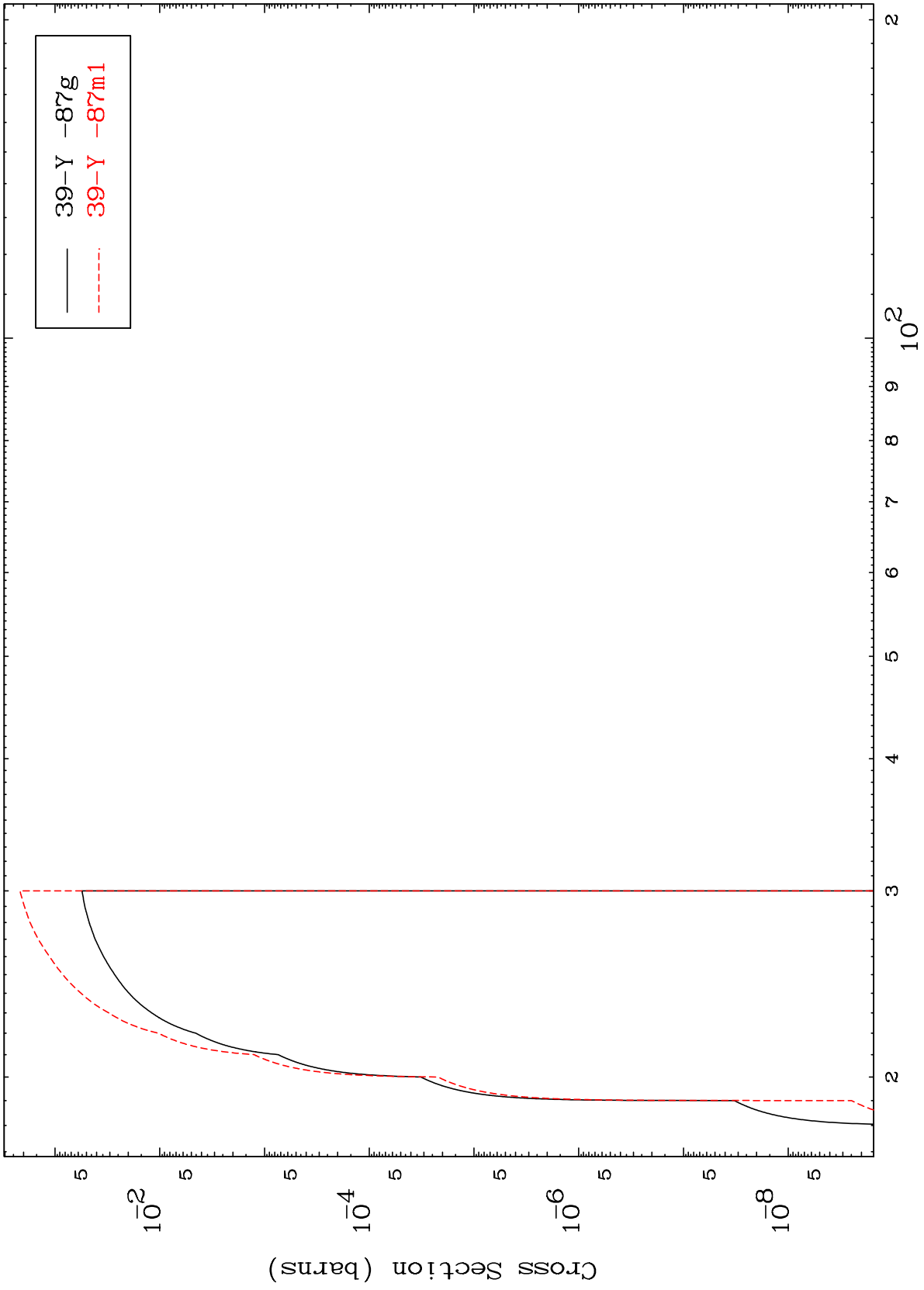
40-Zr-89

MAT 4022

(n,2n) p

40-Zr-89

Radionuclide Production Cross Section



141

Incident Energy (MeV)

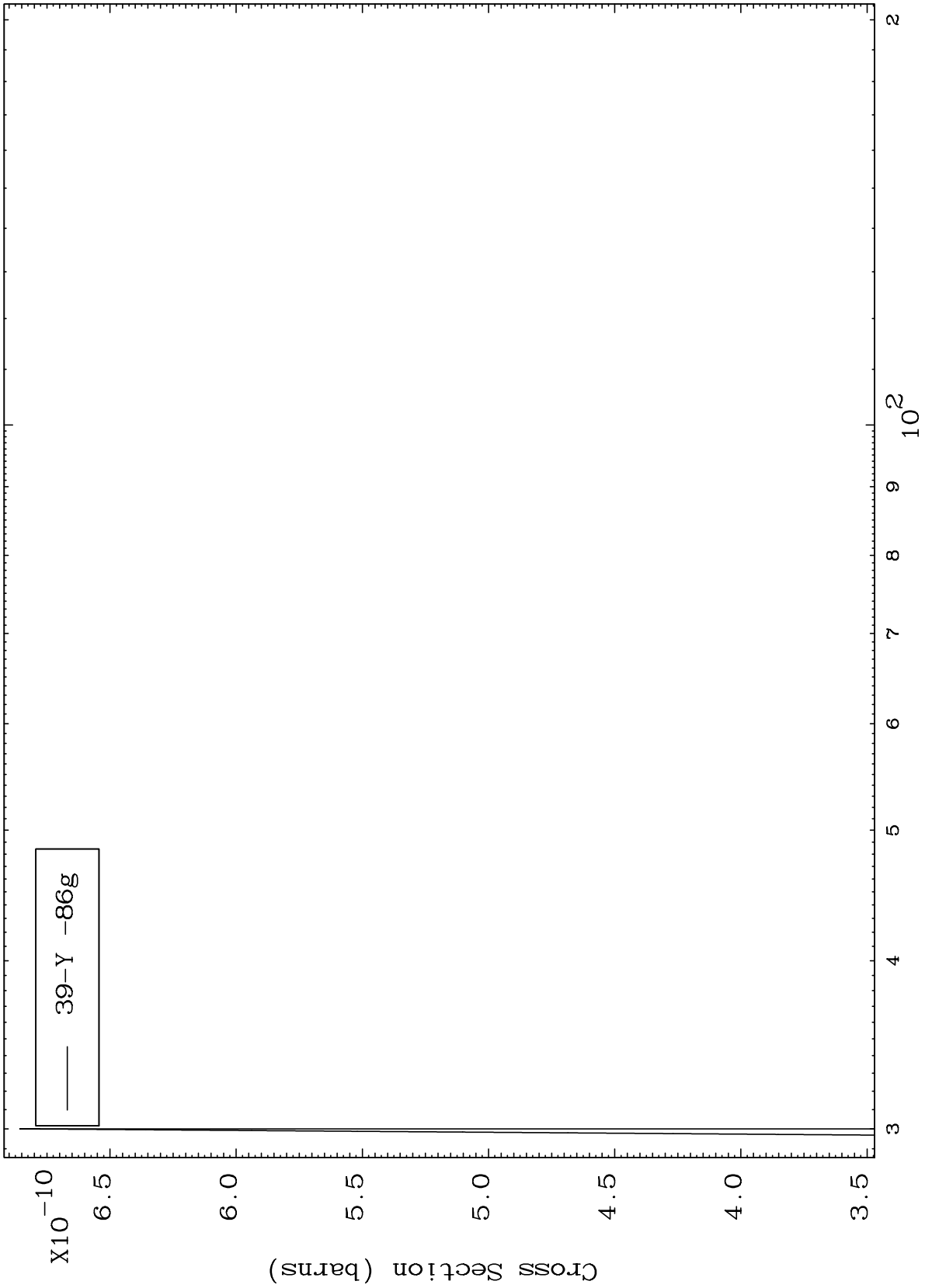
40-Zr-89

MAT 4022

(n,3n) p

40-Zr-89

Radionuclide Production Cross Section



142

Incident Energy (MeV)

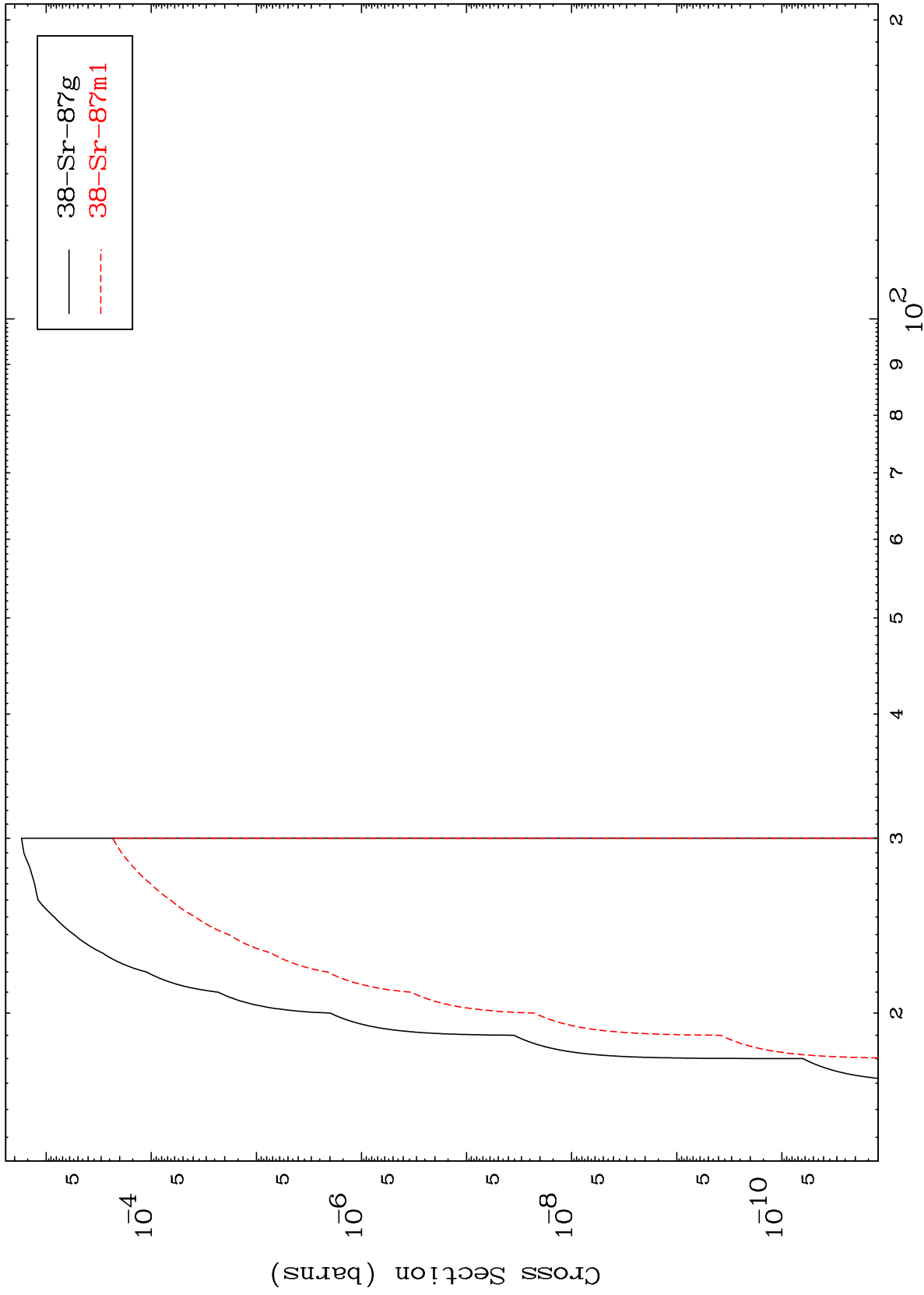
40-Zr-89

MAT 4022

(n,2n) p

40-Zr-89

Radionuclide Production Cross Section



143

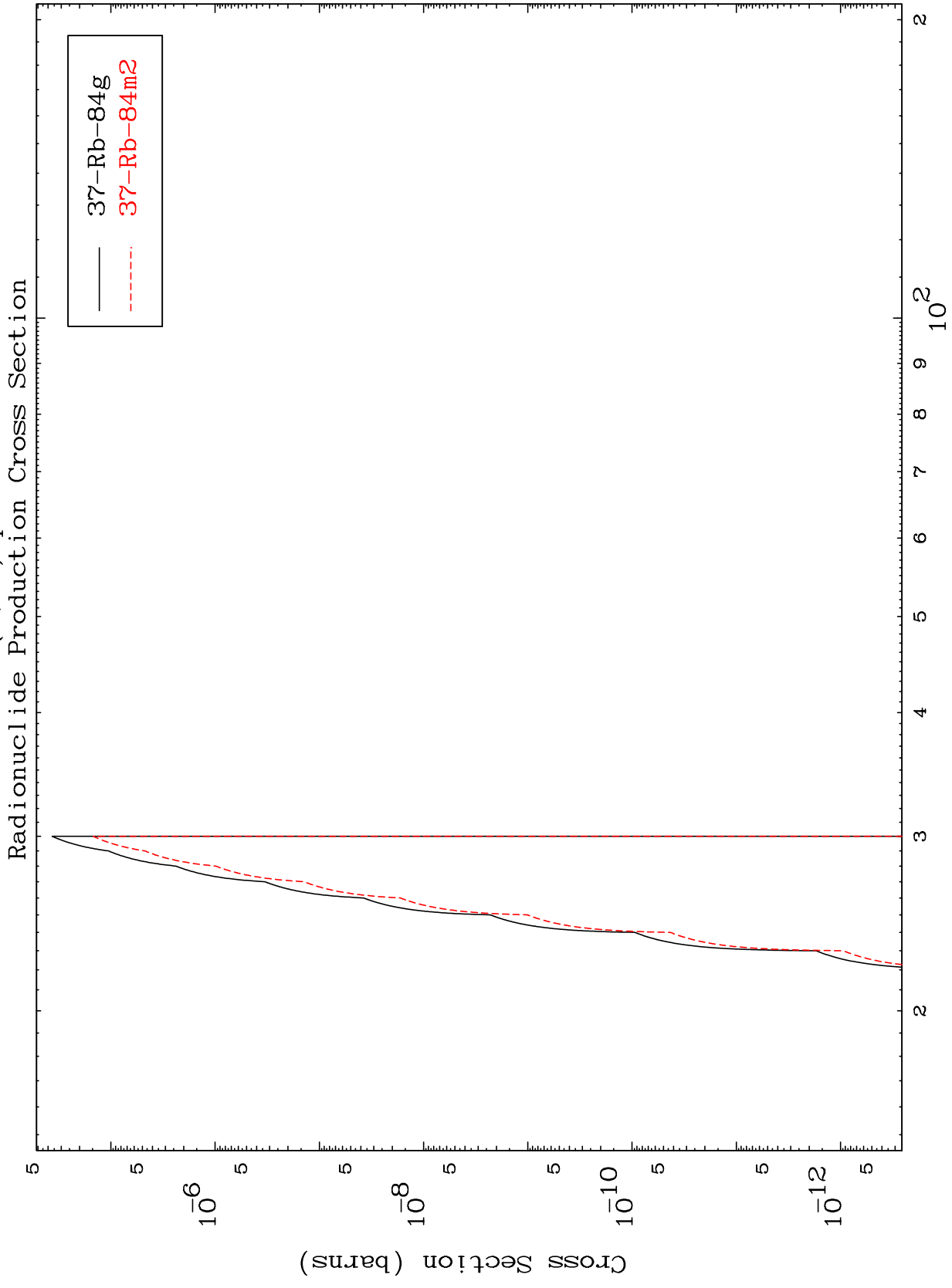
Incident Energy (MeV)

40-Zr-89

MAT 4022

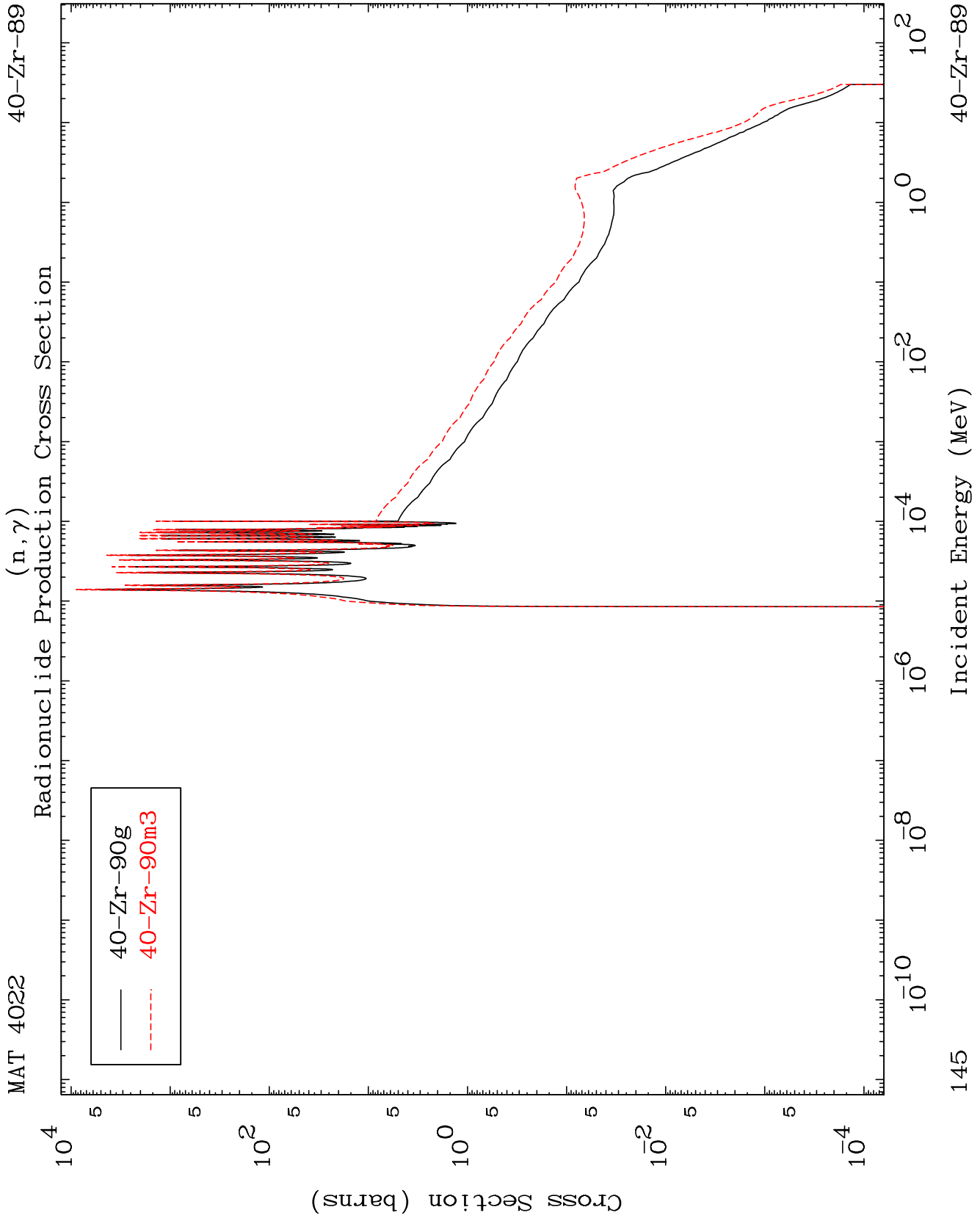
(n,n') p α

40-Zr-89



144

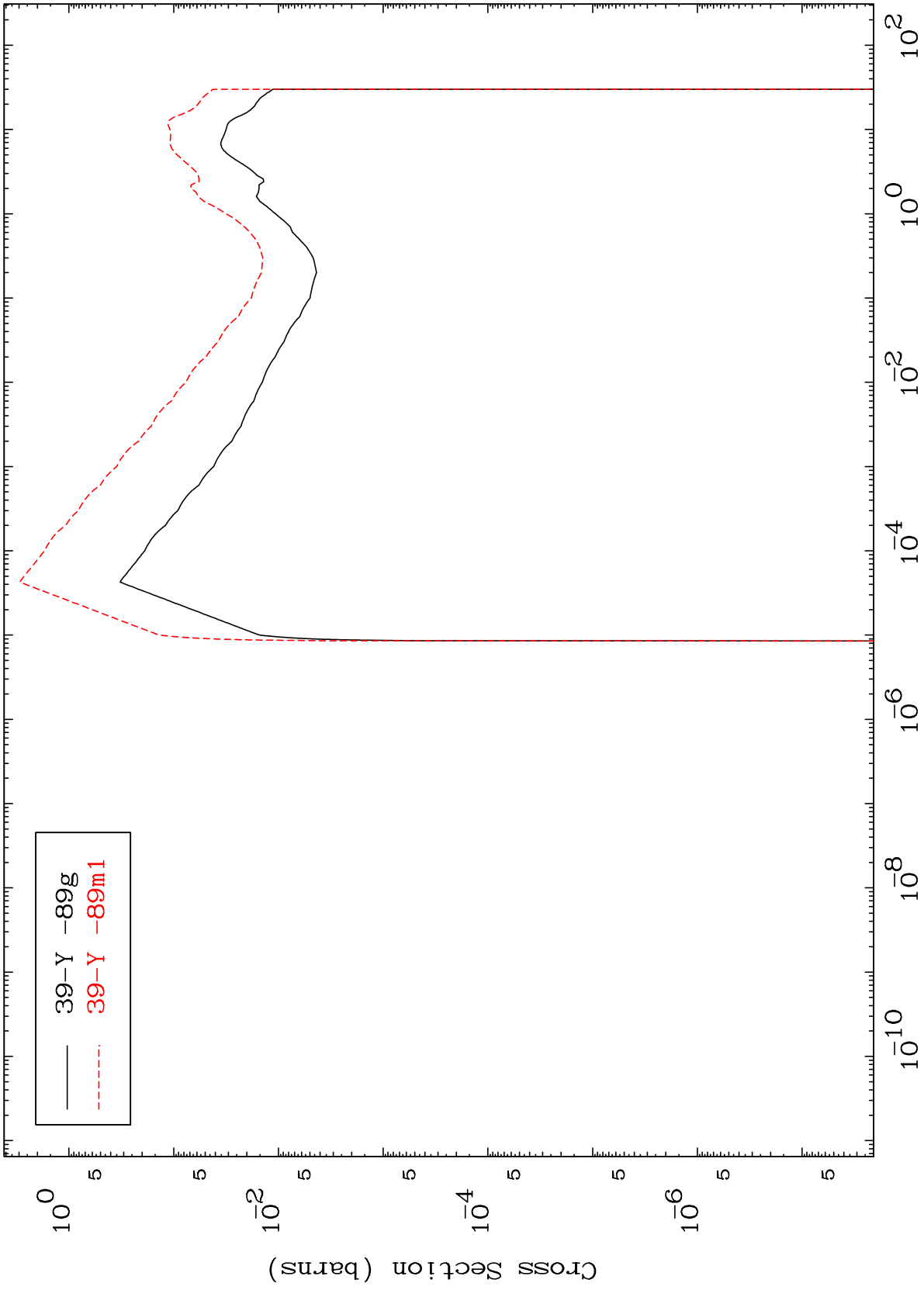
40-Zr-89



MAT 4022

40-Zr-89

(n,p)
Radionuclide Production Cross Section



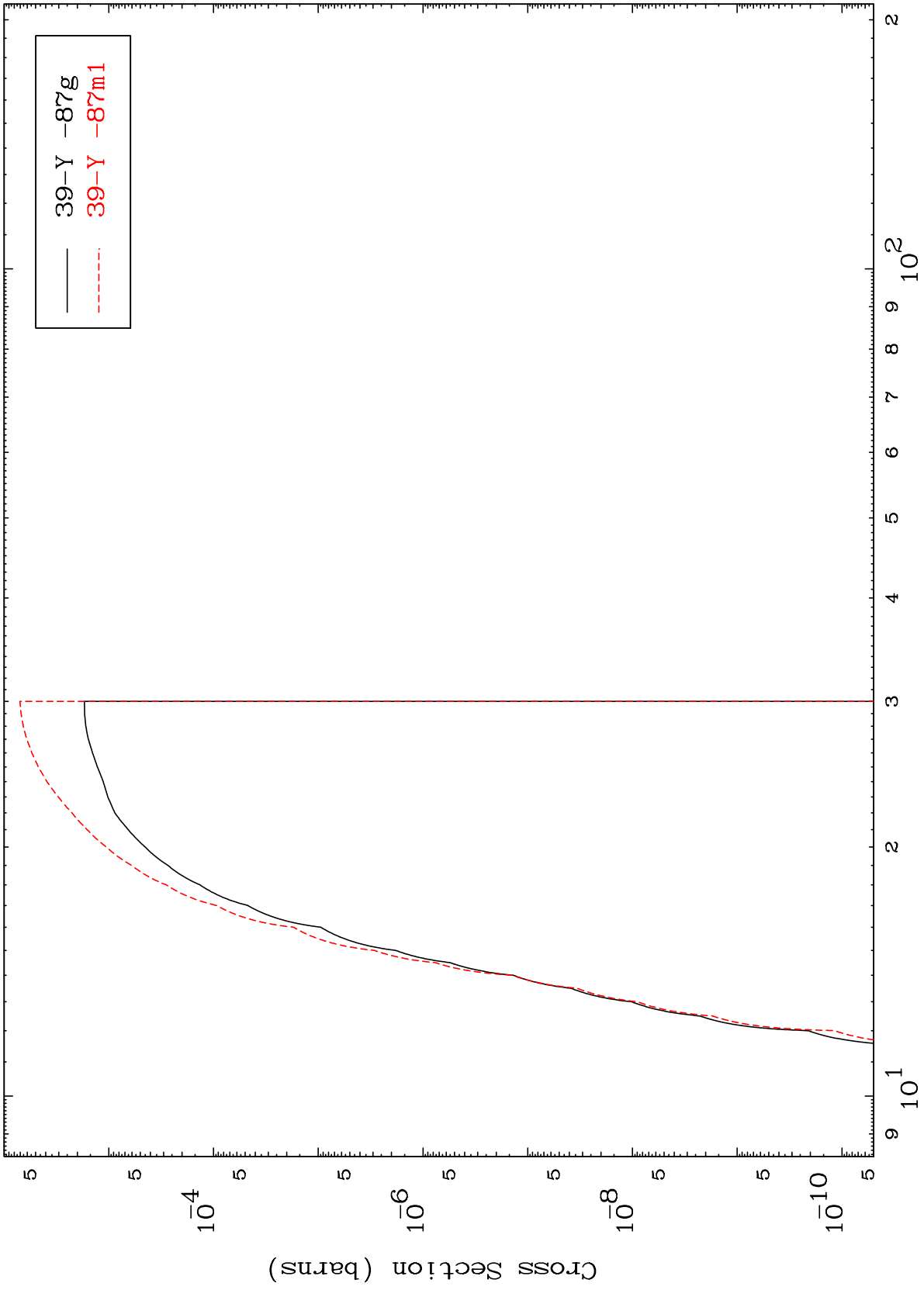
146

40-Zr-89

MAT 4022

40-Zr-89

(n, t)
Radionuclide Production Cross Section



40-Zr-89

Incident Energy (MeV)

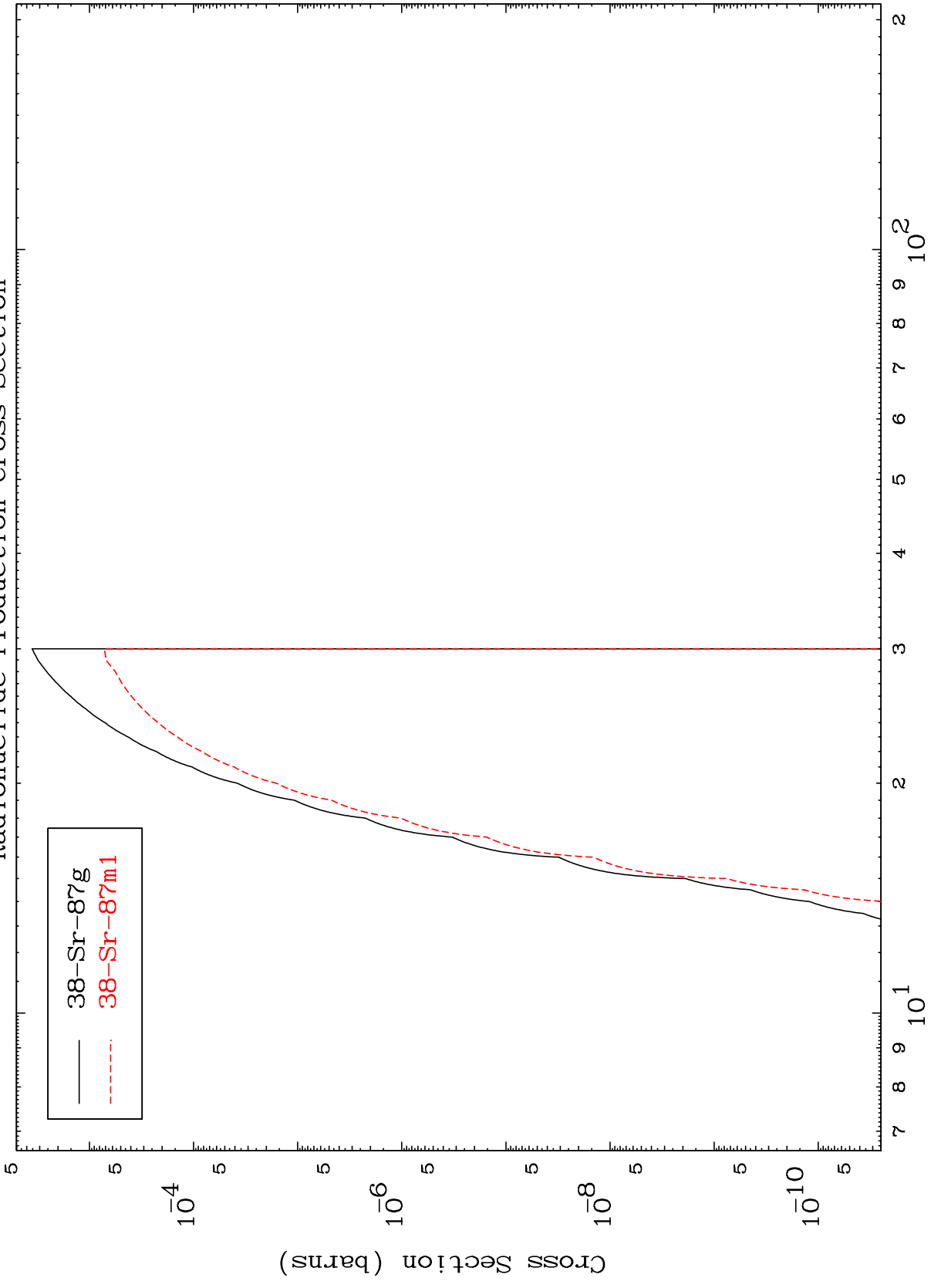
147

MAT 4022

(n,He-3)

40-Zr-89

Radionuclide Production Cross Section



Legend:
— 38-Sr-87g
- - - 38-Sr-87m1

148

Incident Energy (MeV)

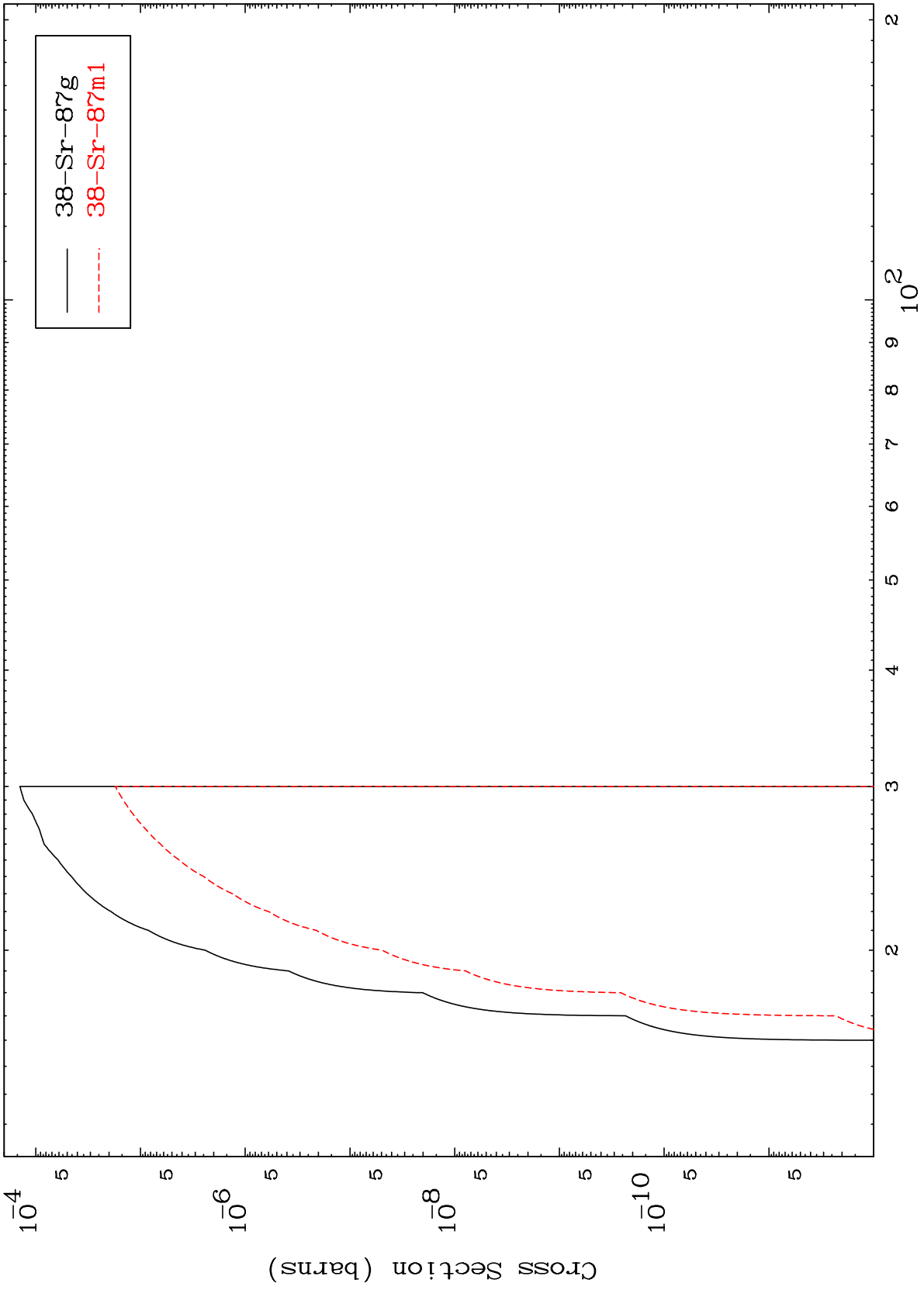
40-Zr-89

MAT 4022

(n,p) d

40-Zr-89

Radionuclide Production Cross Section



38-Sr-87g
38-Sr-87m1

149

Incident Energy (MeV)

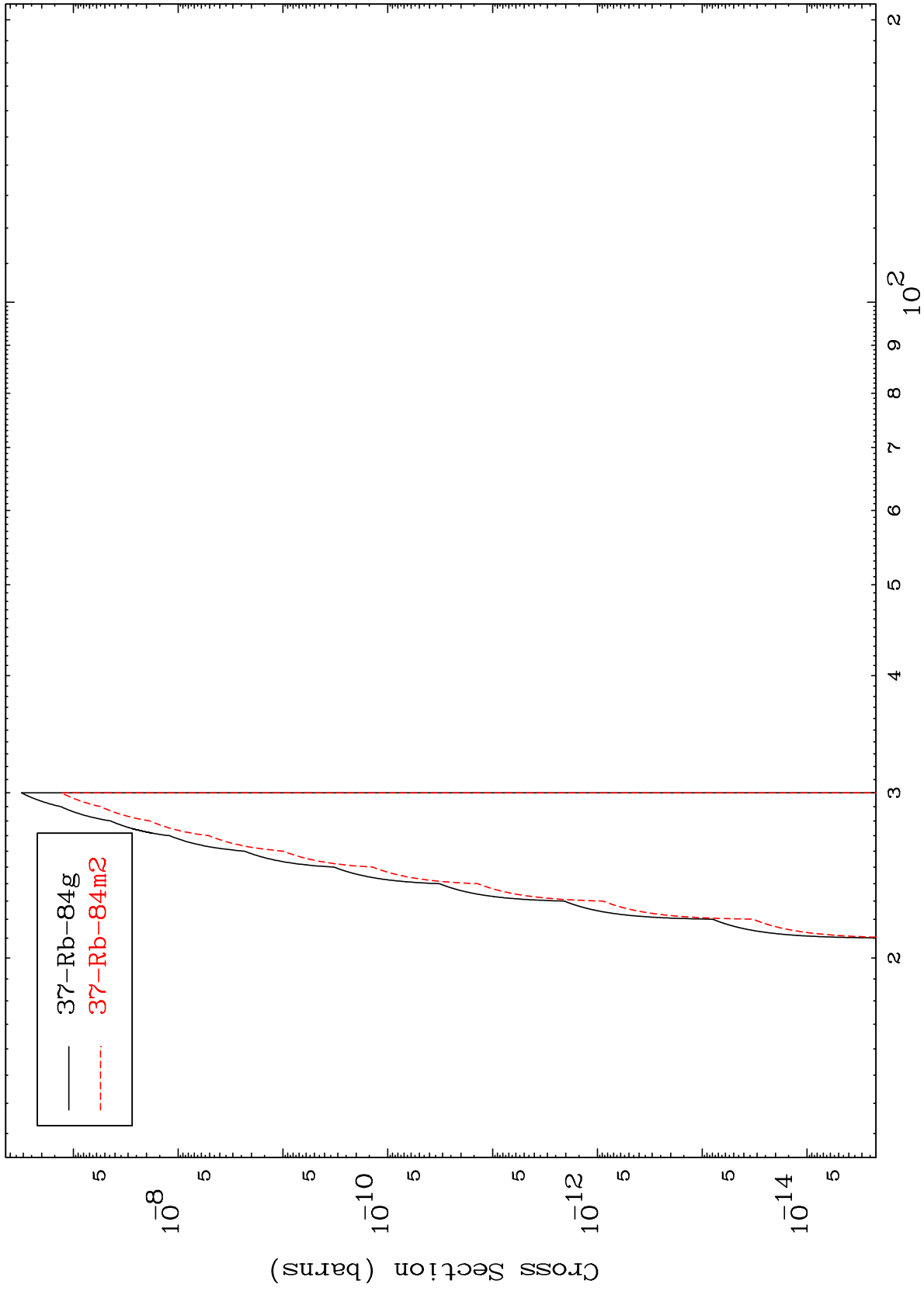
40-Zr-89

MAT 4022

(n,d) α

40-Zr-89

Radionuclide Production Cross Section



150

Incident Energy (MeV)

40-Zr-89