

Program EVALPLOT  
(Version 2018-1)

by

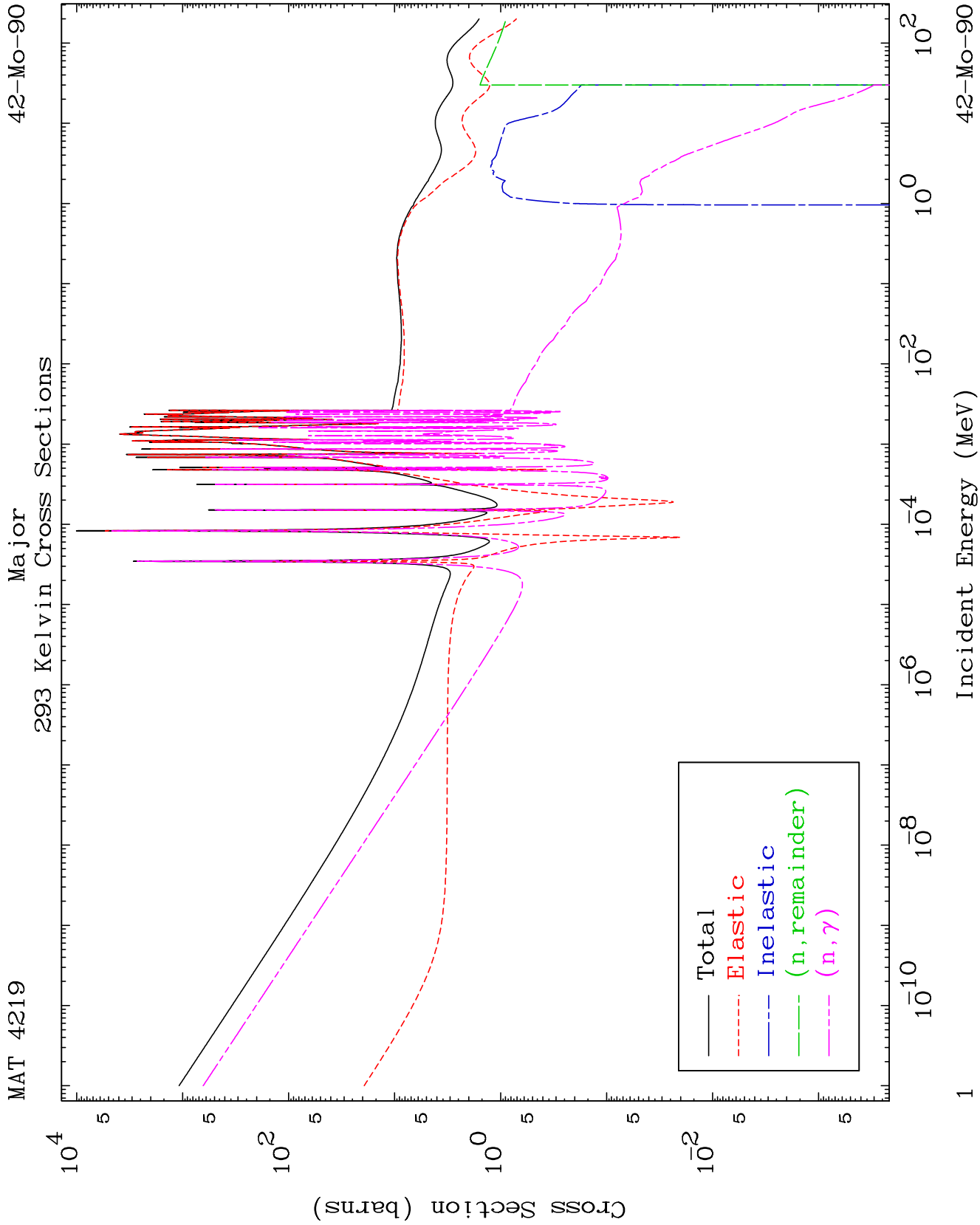
Dermott E. Cullen  
(Present Contact Information)

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Tele: 925-443-1911

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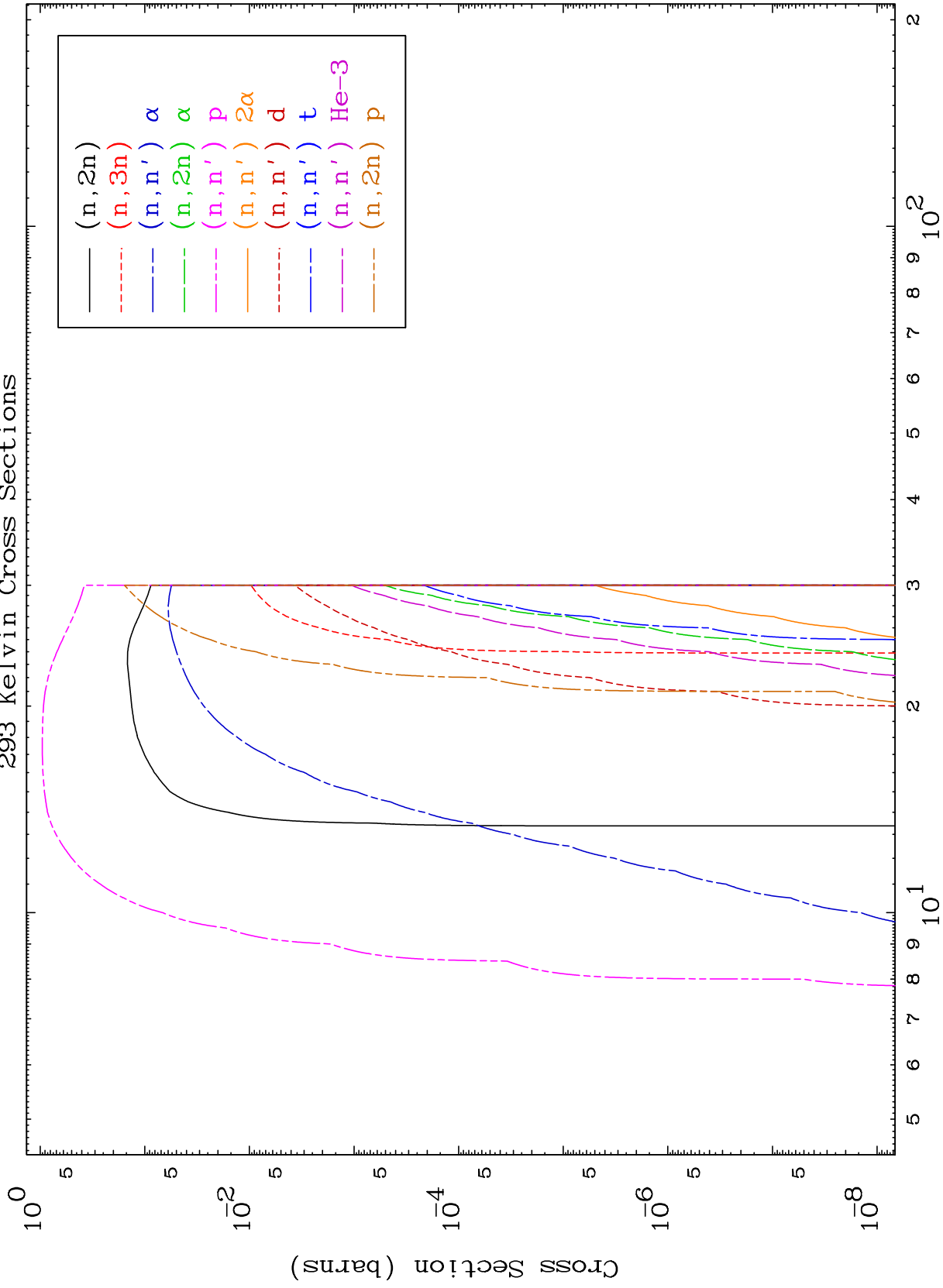
Press Mouse Button to Start



MAT 4219

Neutron Production  
293 Kelvin Cross Sections

42-Mo-90



2

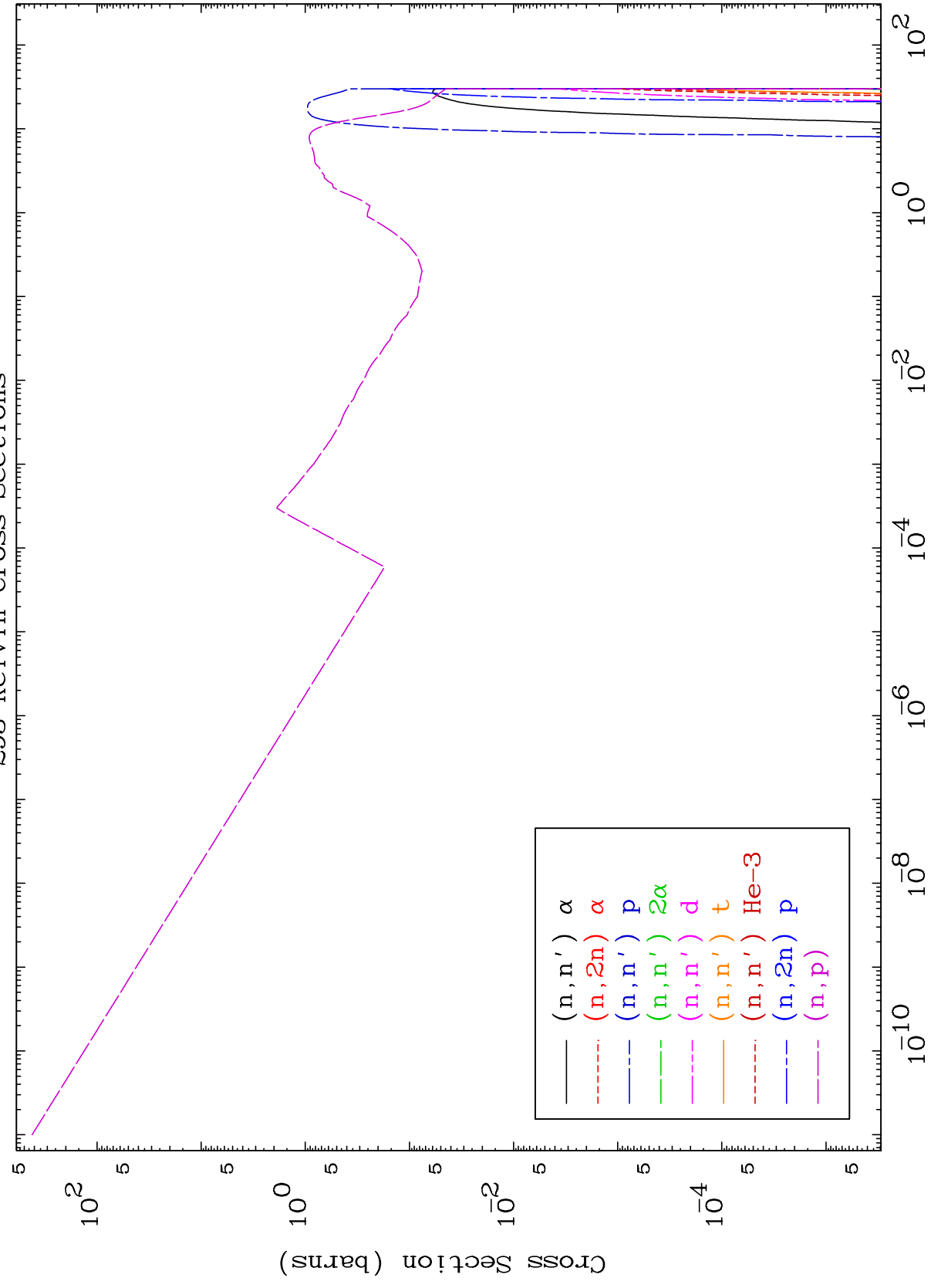
Incident Energy (MeV)

42-Mo-90

MAT 4219

Charged Particle  
293 Kelvin Cross Sections

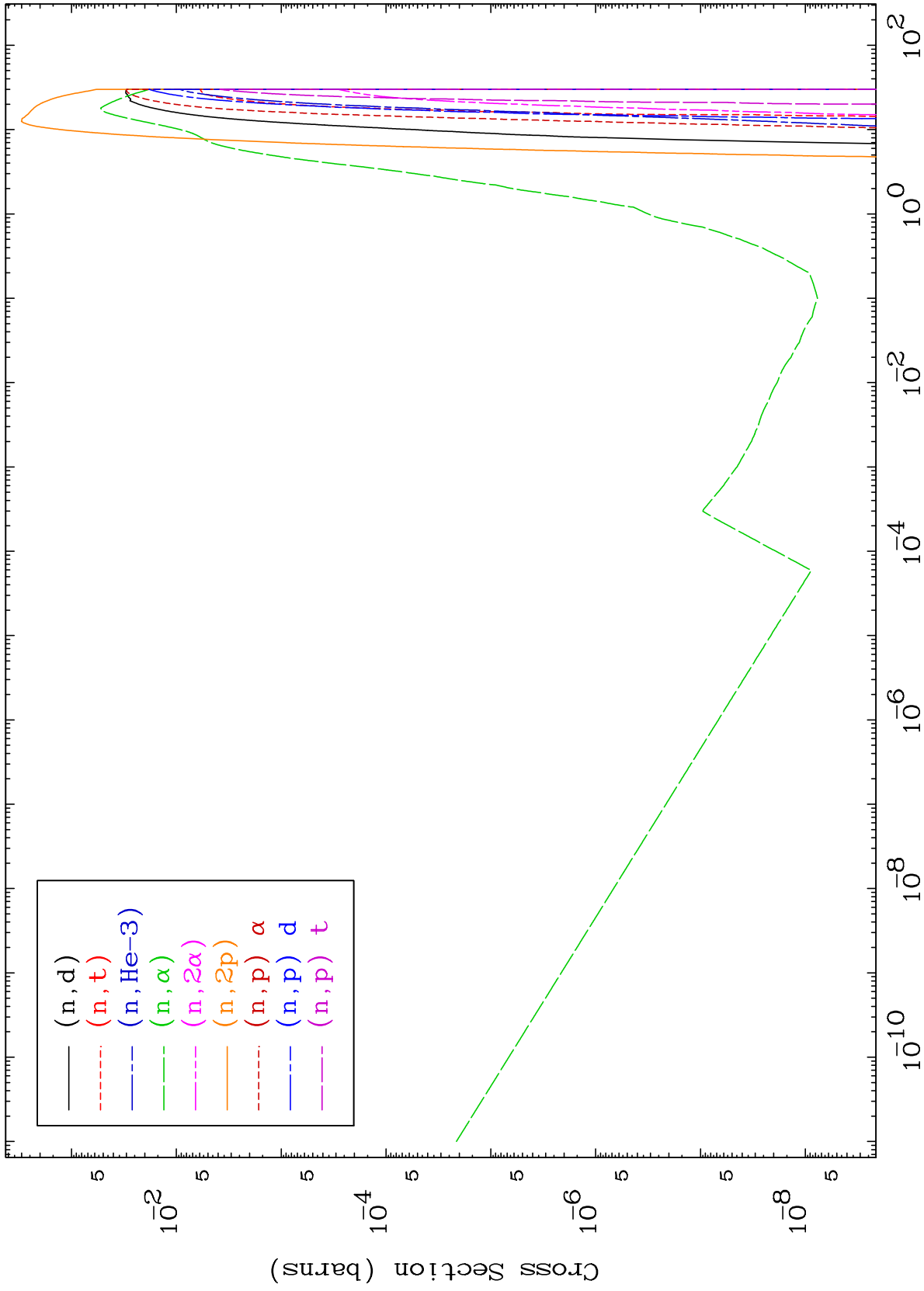
42-Mo-90



MAT 4219

Charged Particle  
293 Kelvin Cross Sections

42-Mo-90



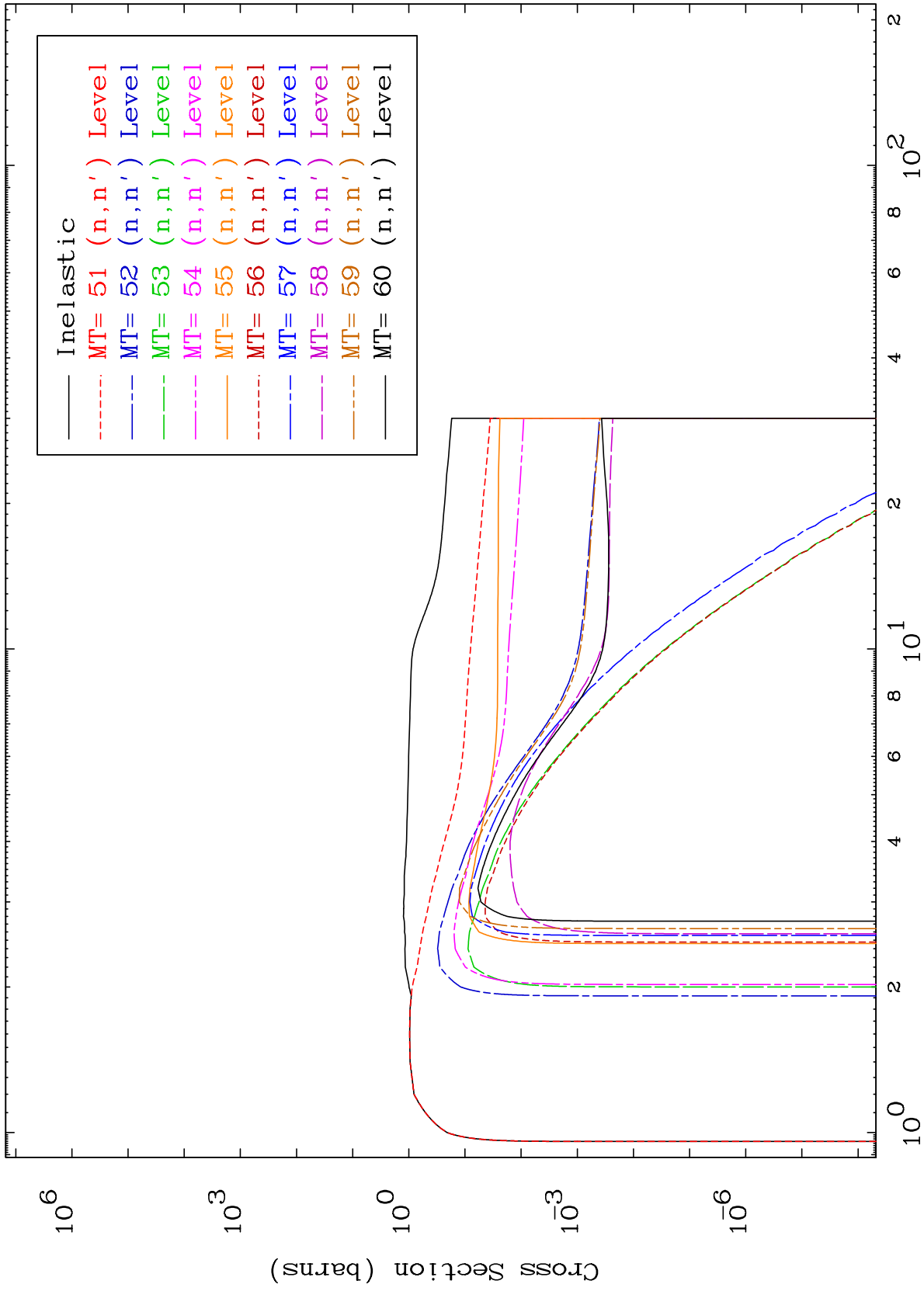


MAT 4219

(n,n') Level

42-Mo-90

293 Kelvin Cross Sections



Incident Energy (MeV)

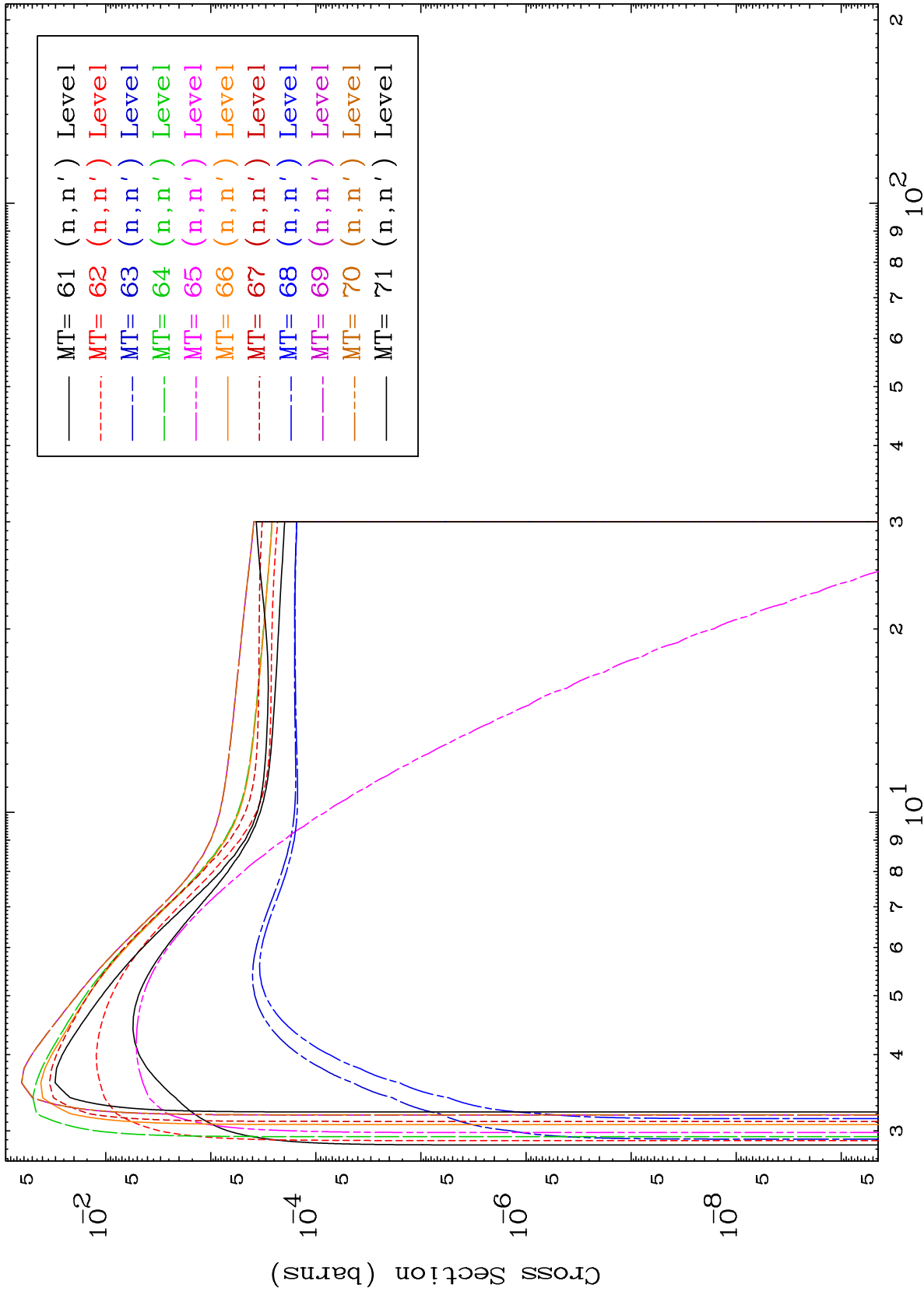
42-Mo-90

MAT 4219

(n,n') Level

42-Mo-90

293 Kelvin Cross Sections



7

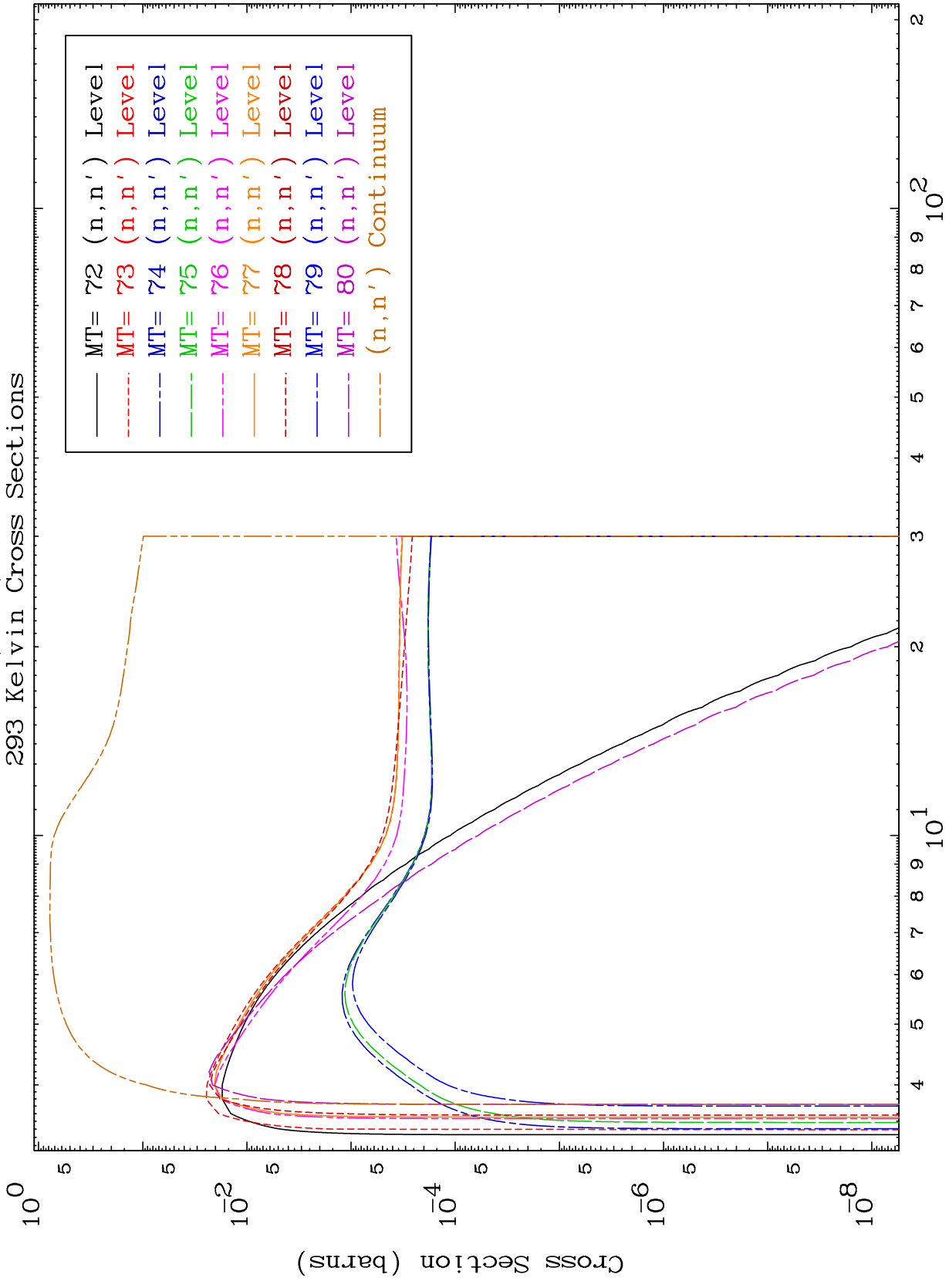
Incident Energy (MeV)

42-Mo-90

MAT 4219

(n,n') Level  
293 Kelvin Cross Sections

42-Mo-90



8

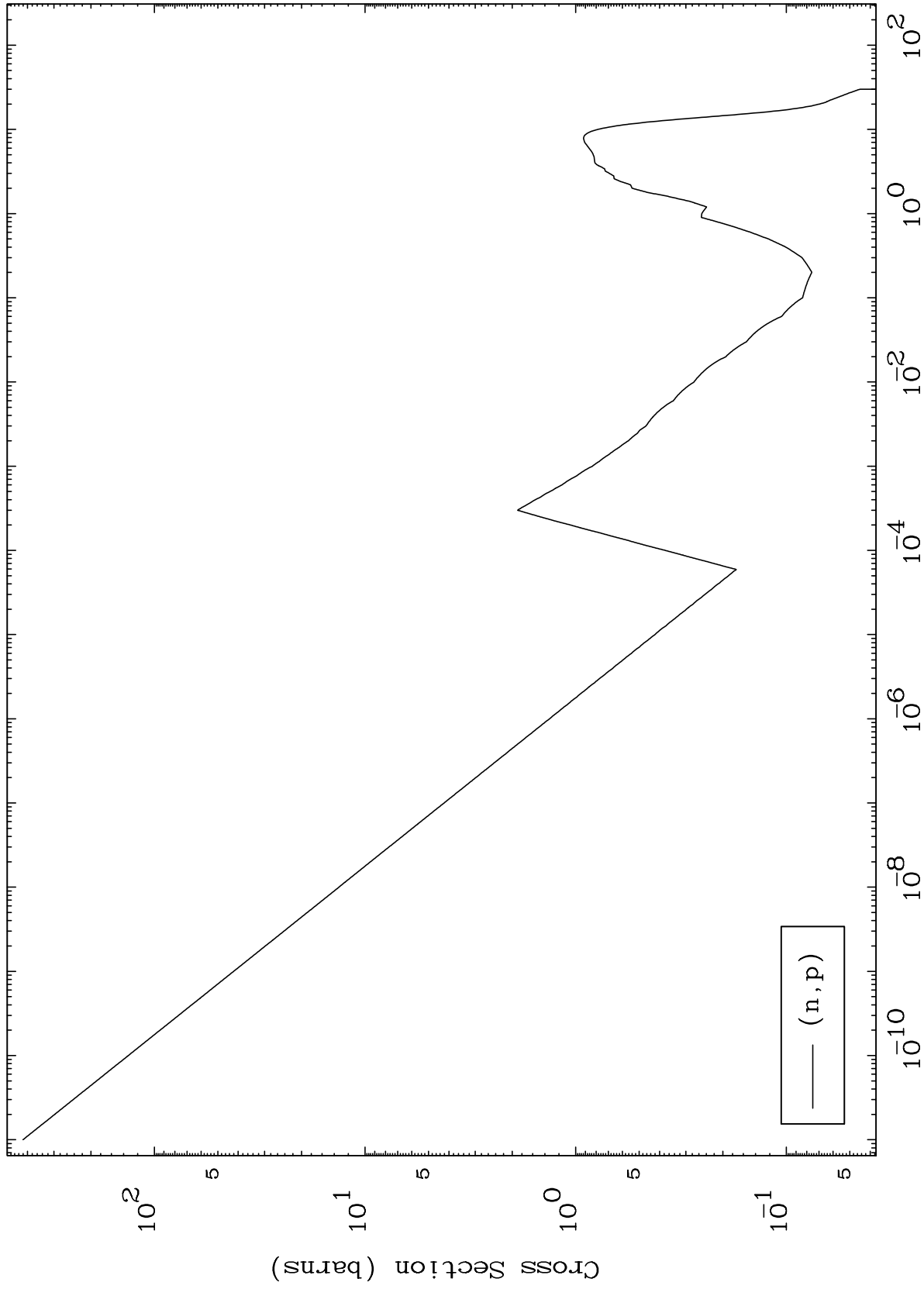
Incident Energy (MeV)

42-Mo-90

MAT 4219

(n,p) Levels  
293 Kelvin Cross Sections

42-Mo-90

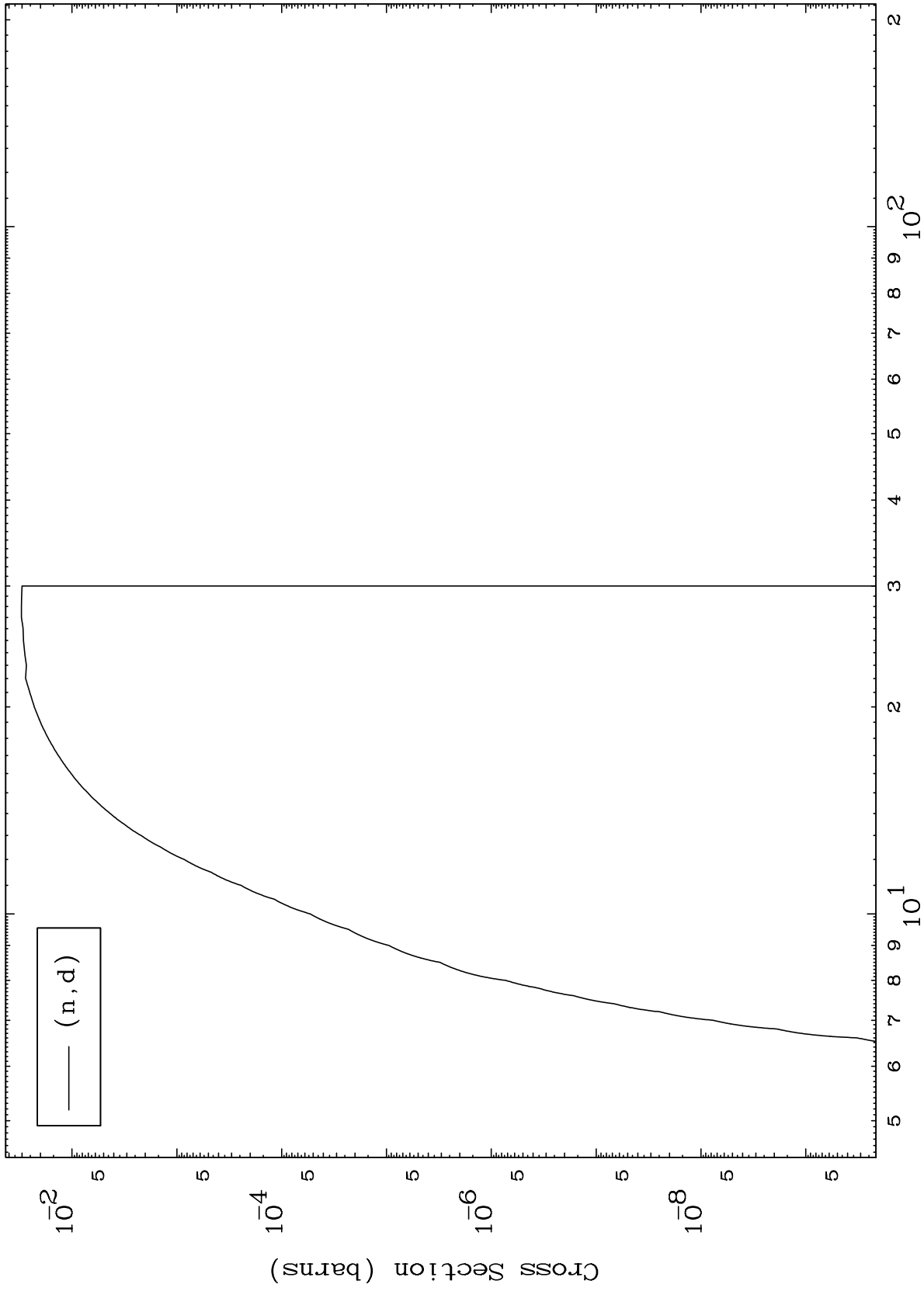


— (n, p)

MAT 4219

(n,d) Levels  
293 Kelvin Cross Sections

42-Mo-90



10

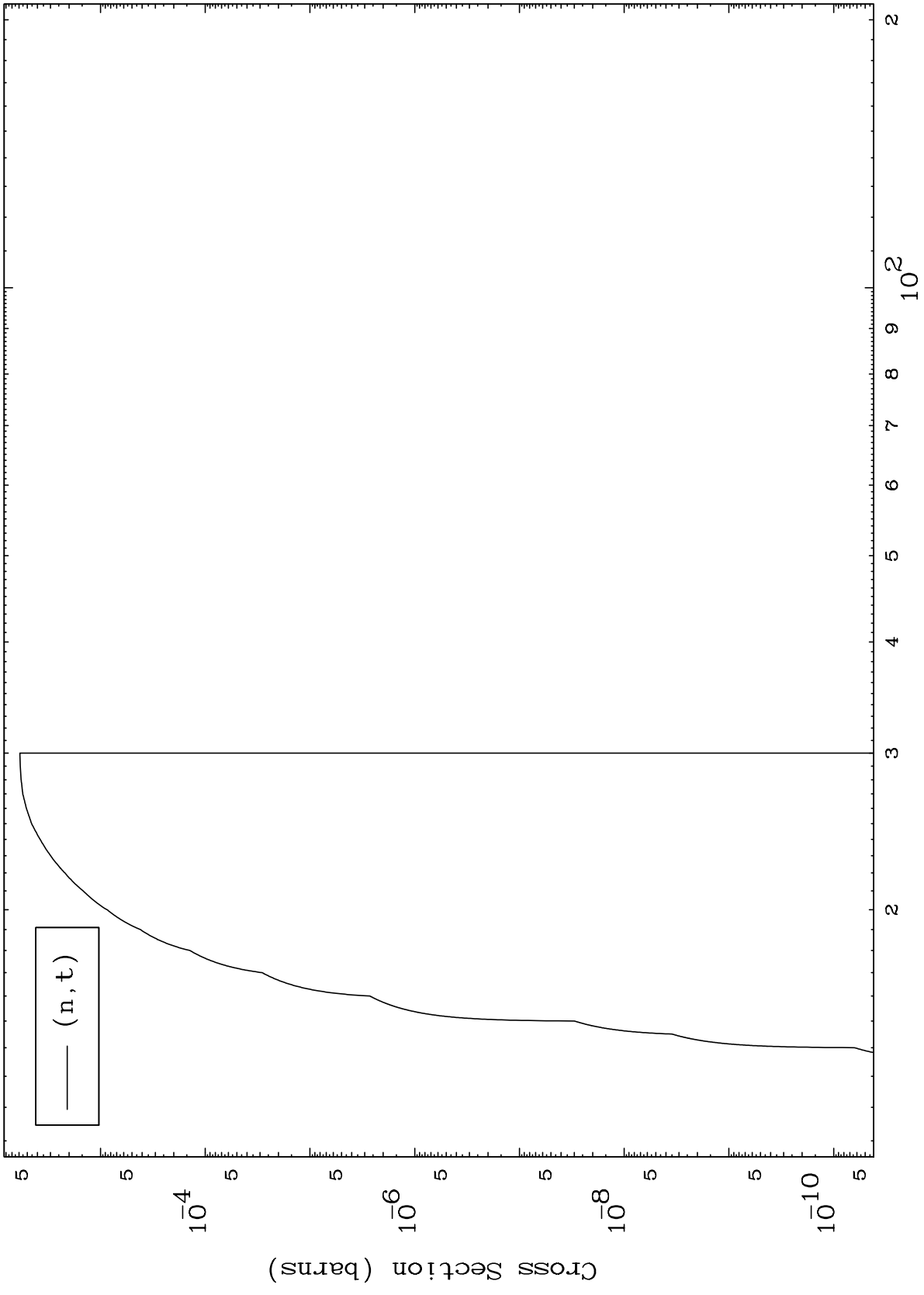
Incident Energy (MeV)

42-Mo-90

MAT 4219

(n,t) Levels  
293 Kelvin Cross Sections

42-Mo-90



11

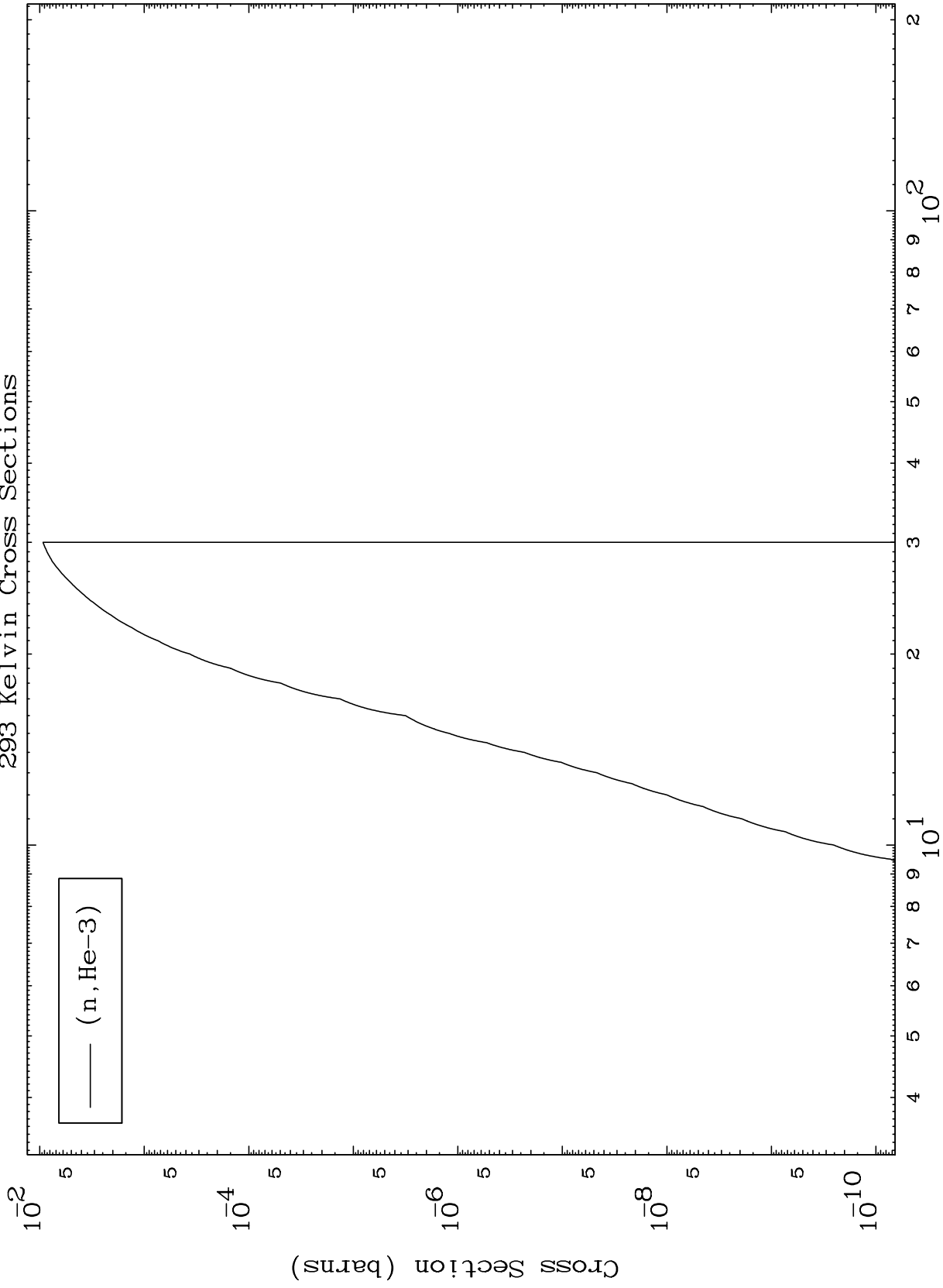
Incident Energy (MeV)

42-Mo-90

MAT 4219

42-Mo-90

(n,He3) Levels  
293 Kelvin Cross Sections



12

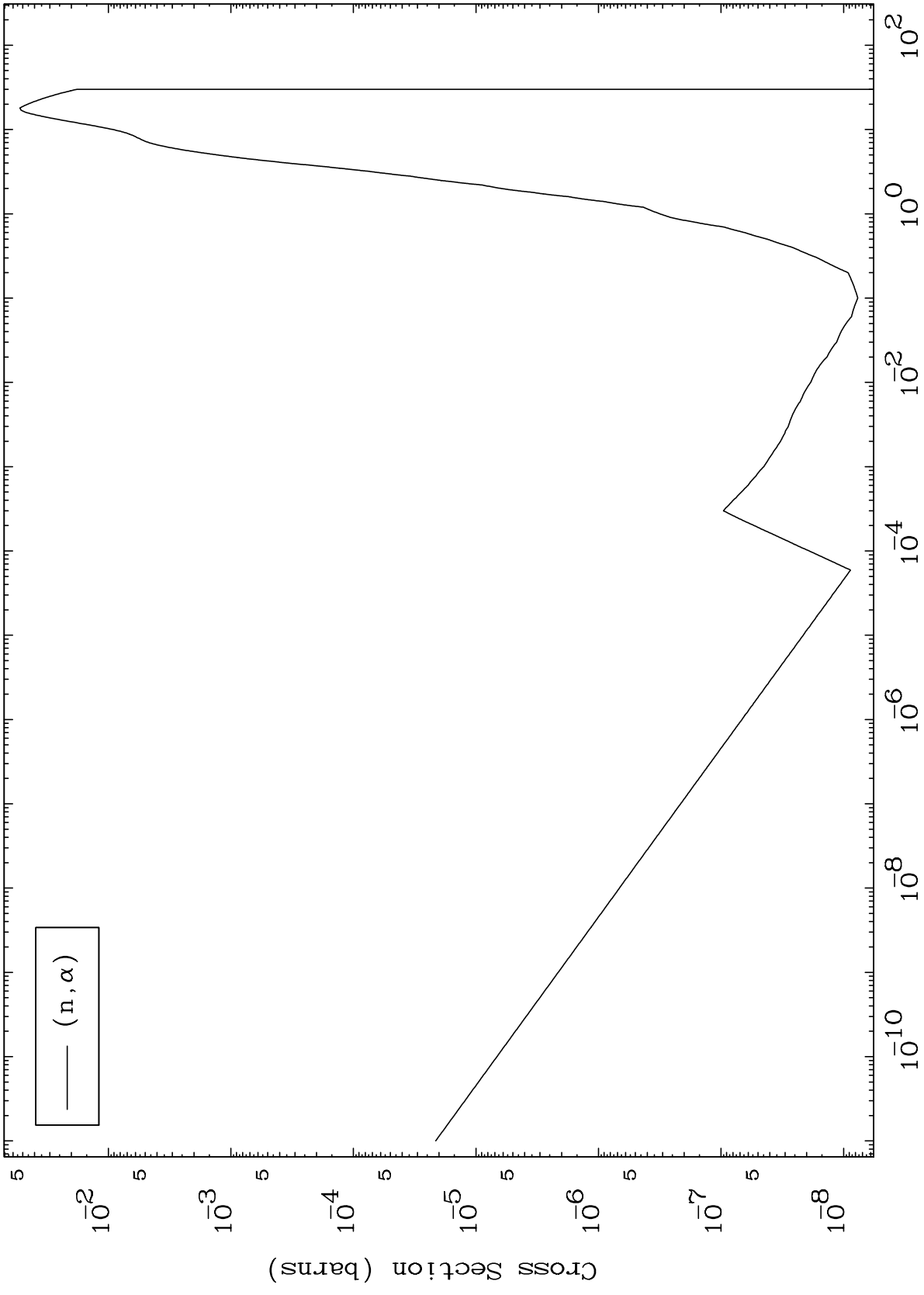
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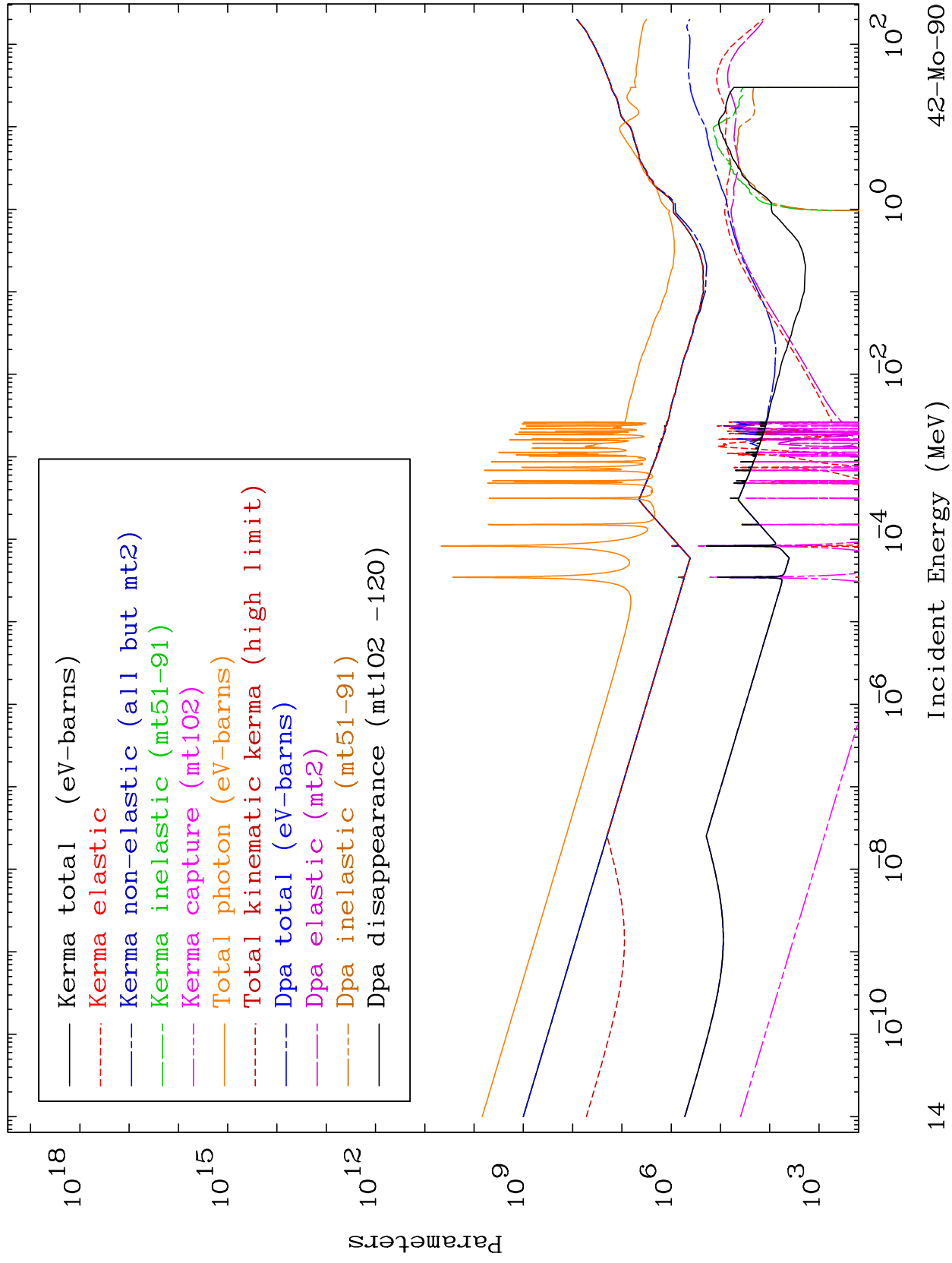
42-Mo-90

MAT 4219

(n,α) Levels  
293 Kelvin Cross Sections

42-Mo-90

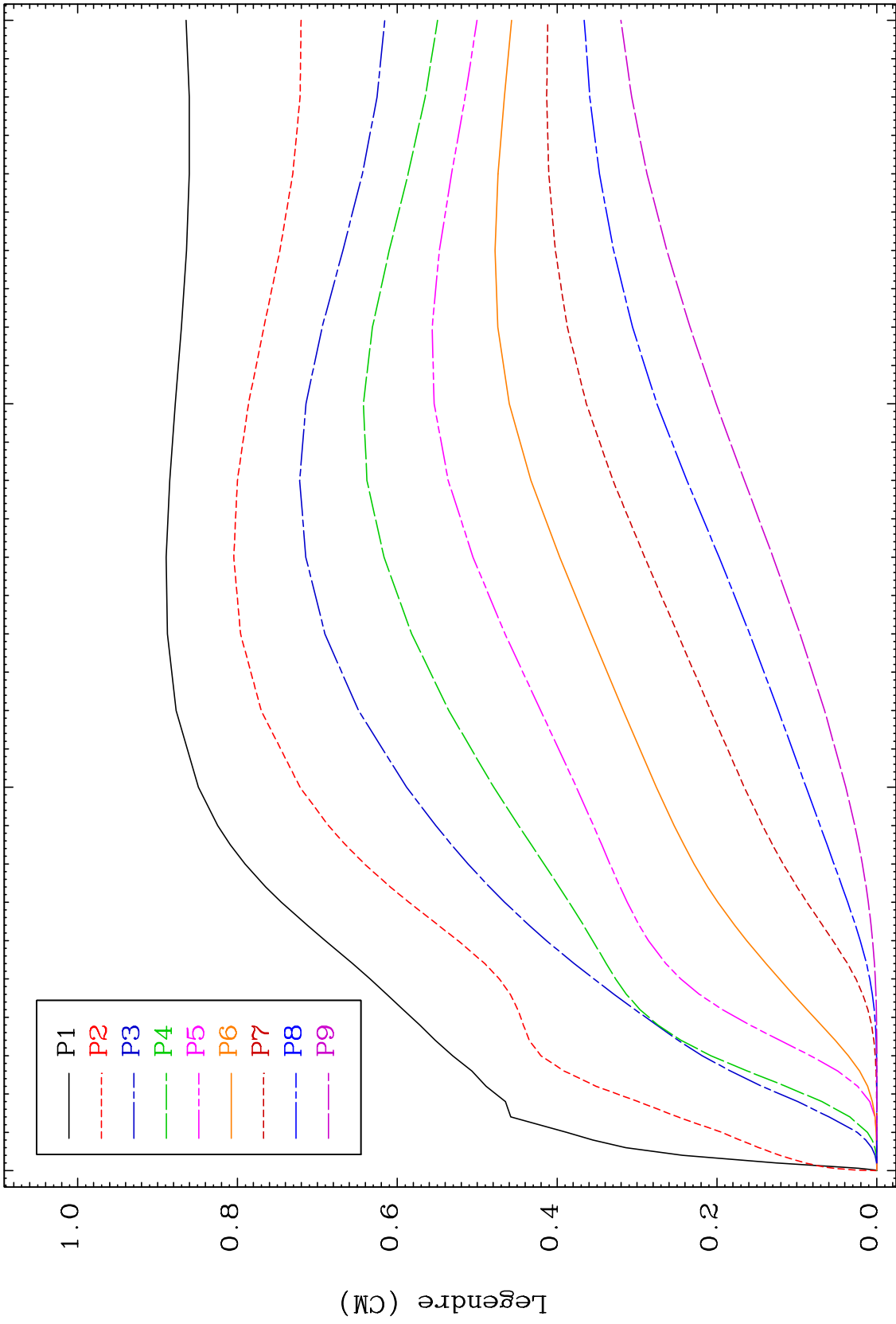




MAT 4219

Elastic Legendre Coefficients

42-Mo-90



15

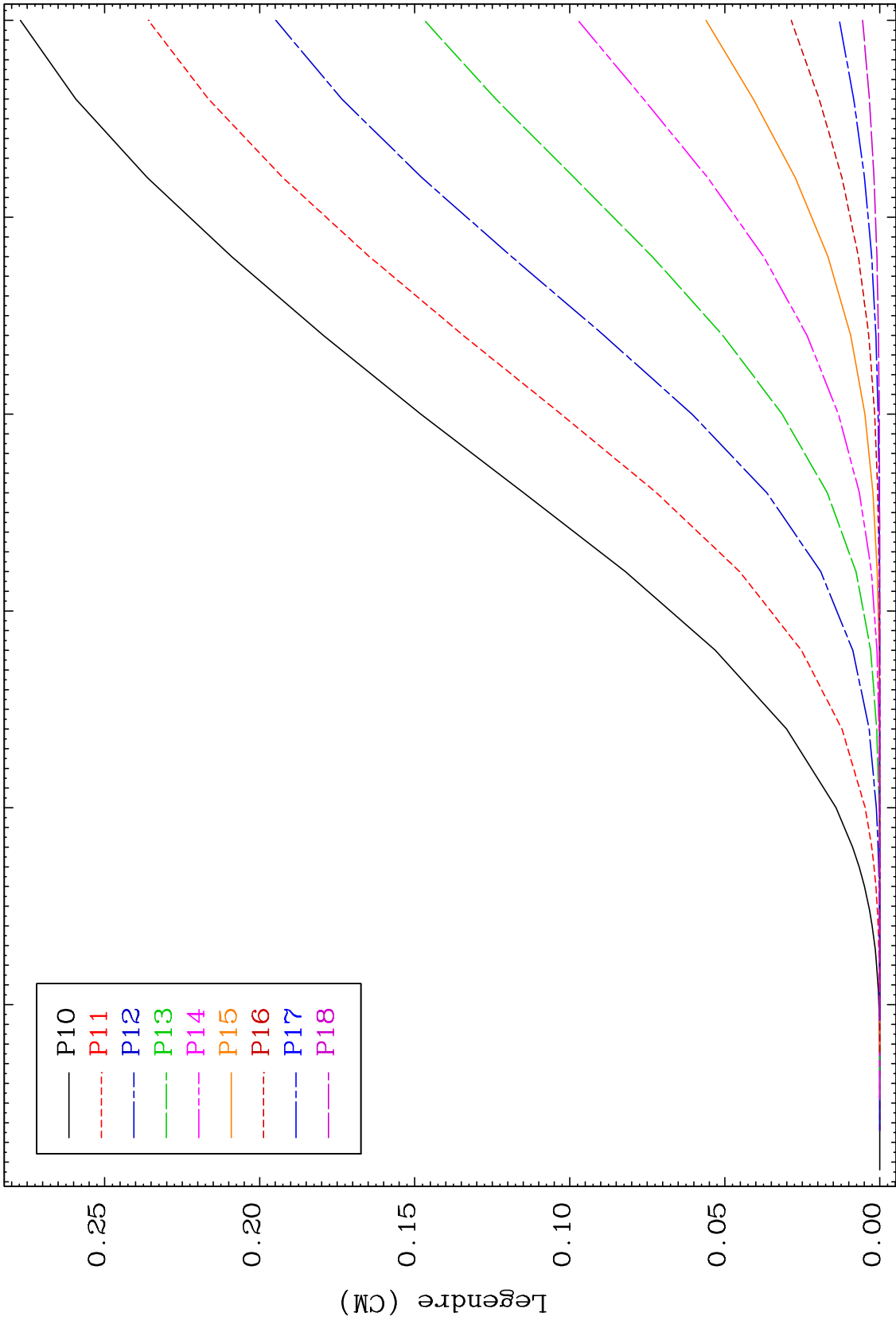
Incident Energy (MeV)

42-Mo-90

MAT 4219

Elastic Legendre Coefficients

42-Mo-90



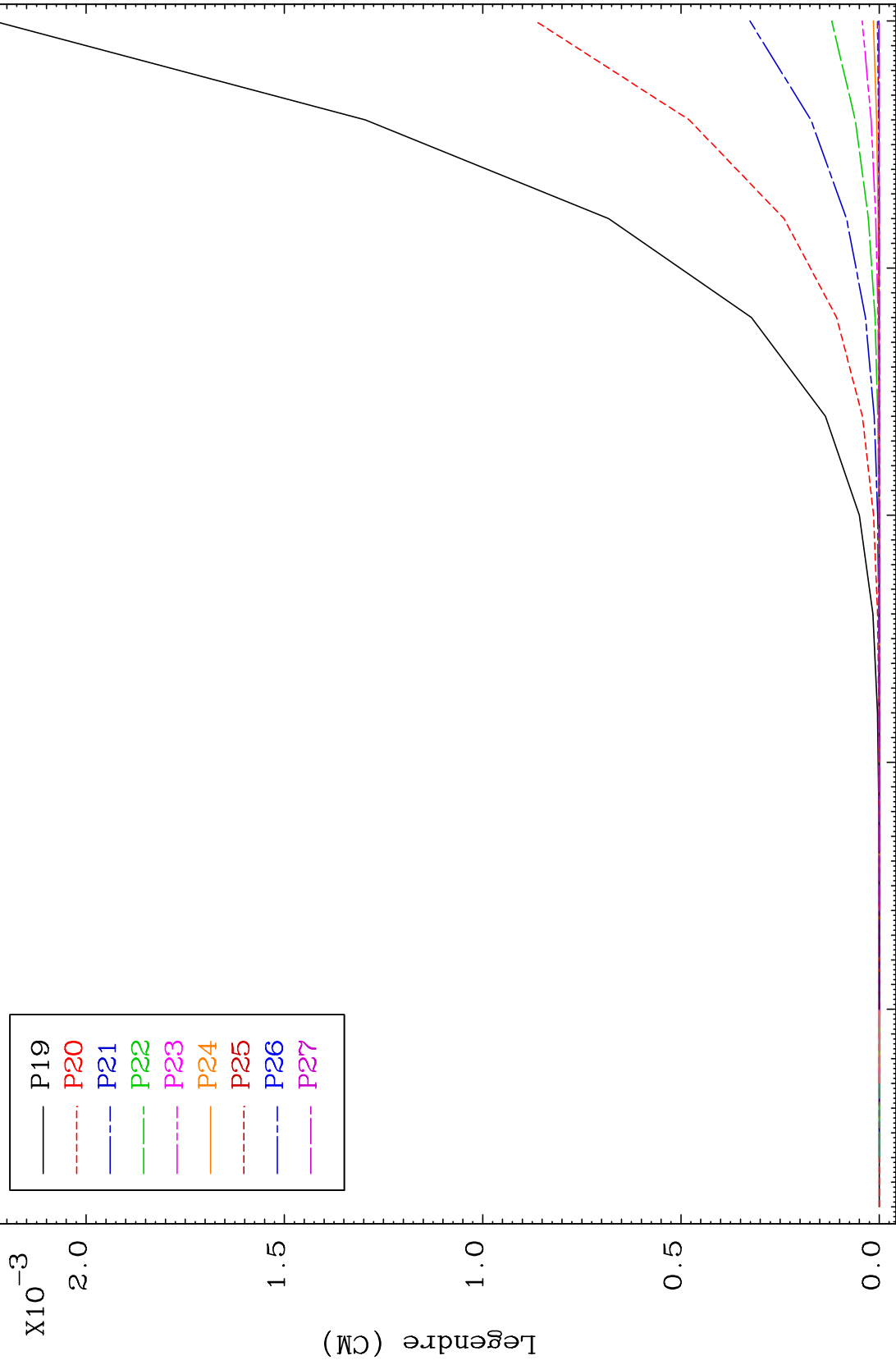
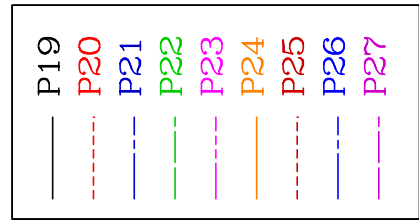
16

42-Mo-90

MAT 4219

### Elastic Legendre Coefficients

42-Mo-90



17

Incident Energy (MeV)

42-Mo-90

MAT 4219

42-Mo-90

Elastic Legendre Coefficients

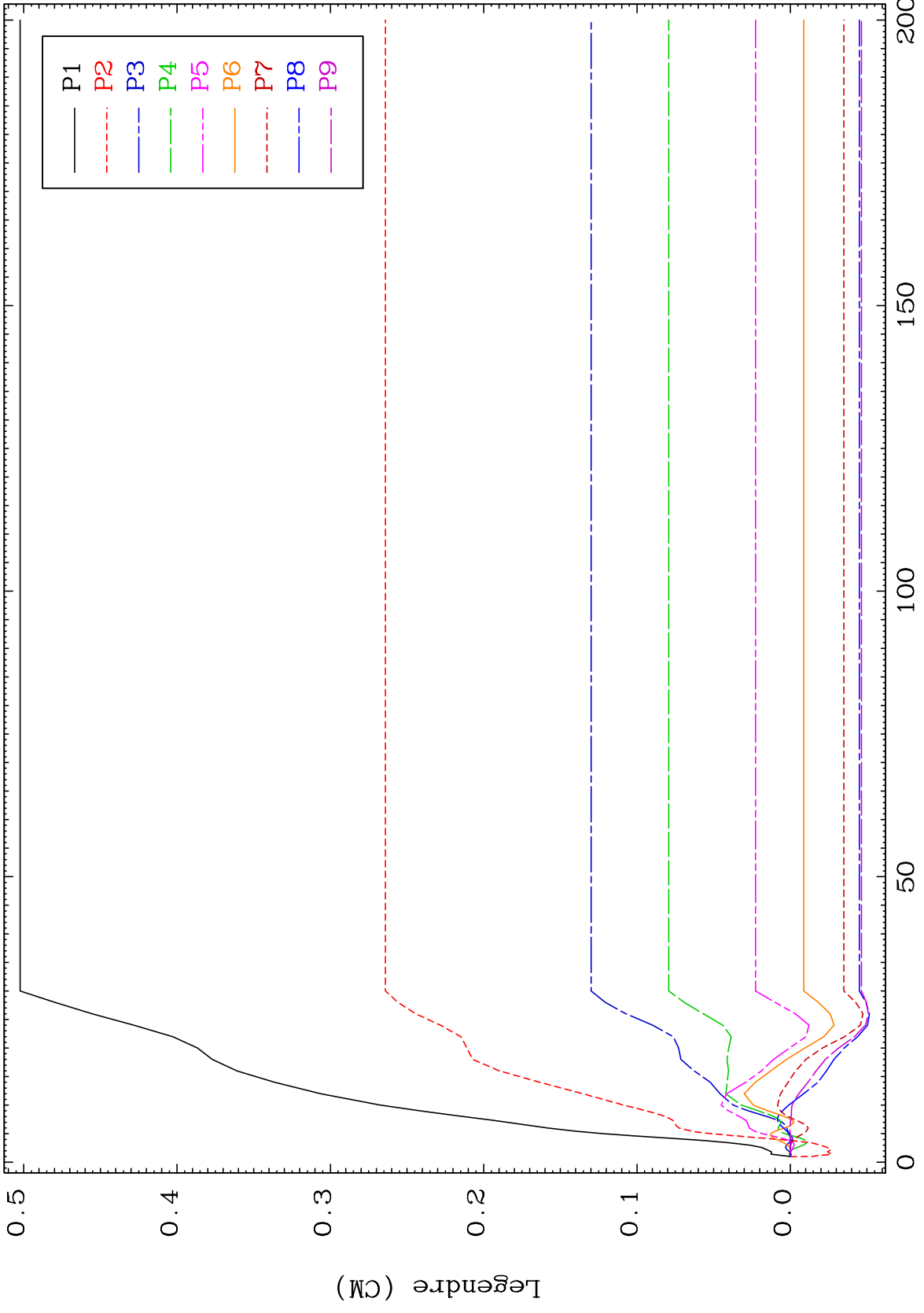


18

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 51 (n,n') Level Legendre Coefficients 42-Mo-90

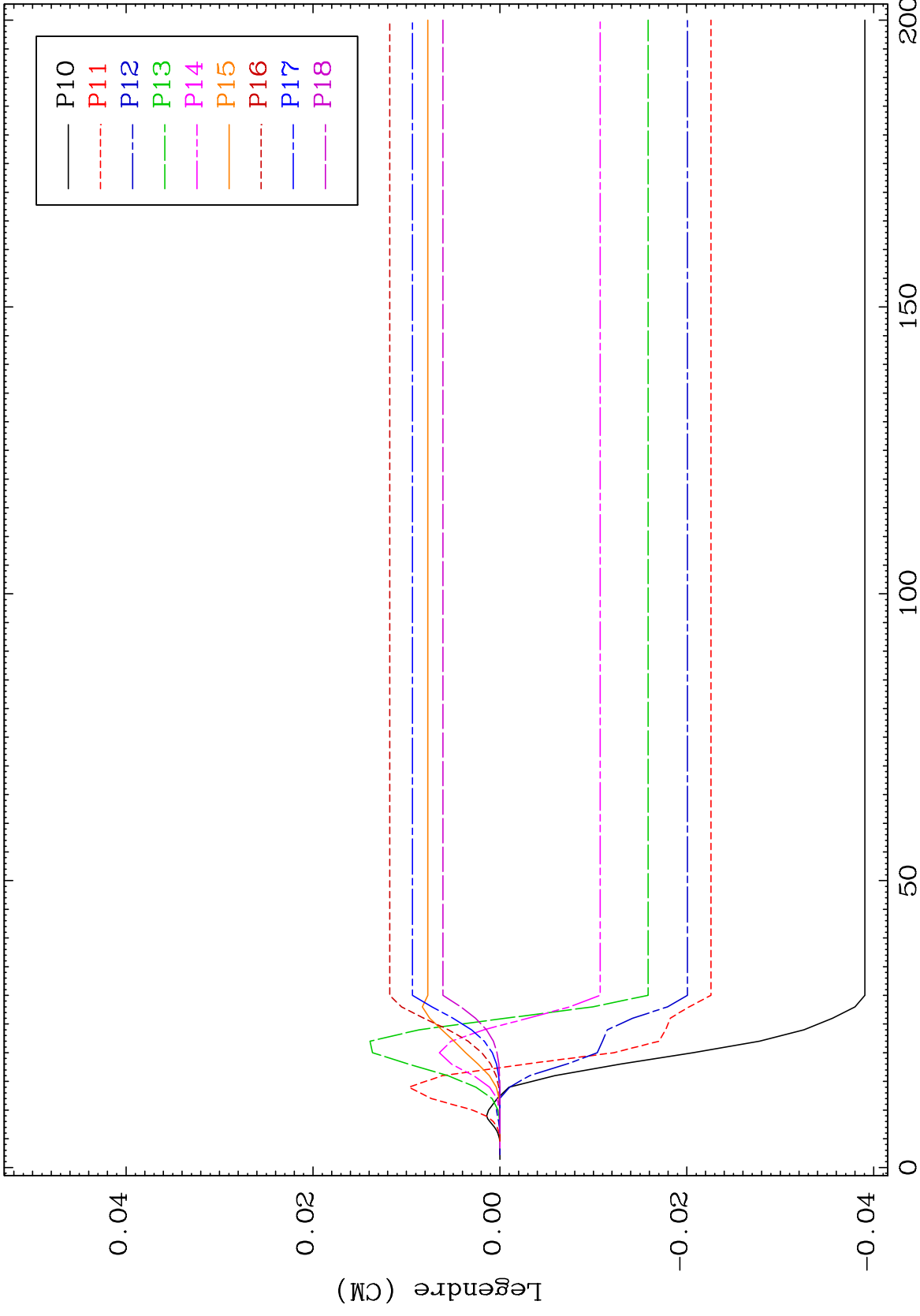


19 42-Mo-90

MAT 4219

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

42-Mo-90

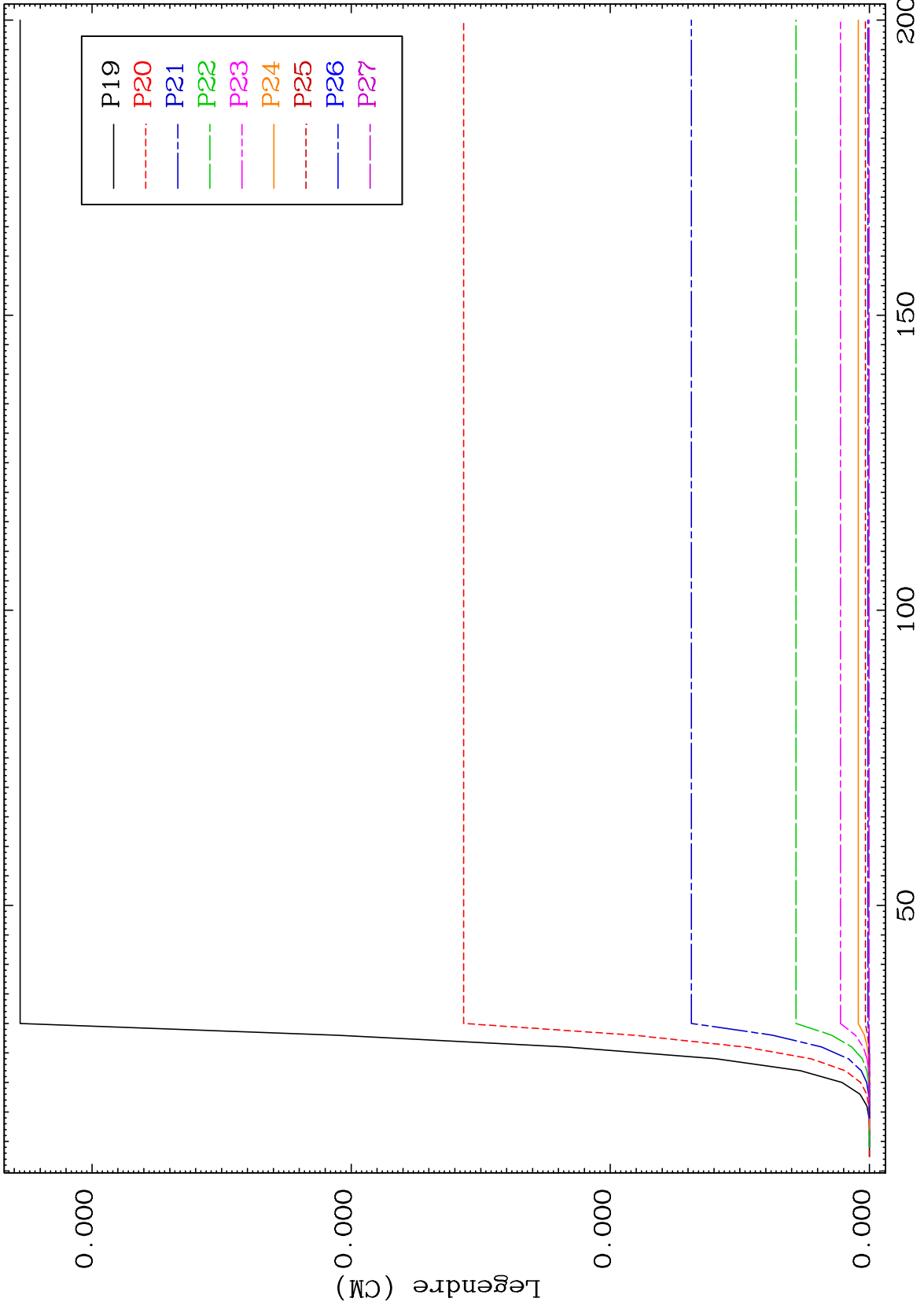


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Incident Energy (MeV)

42-Mo-90

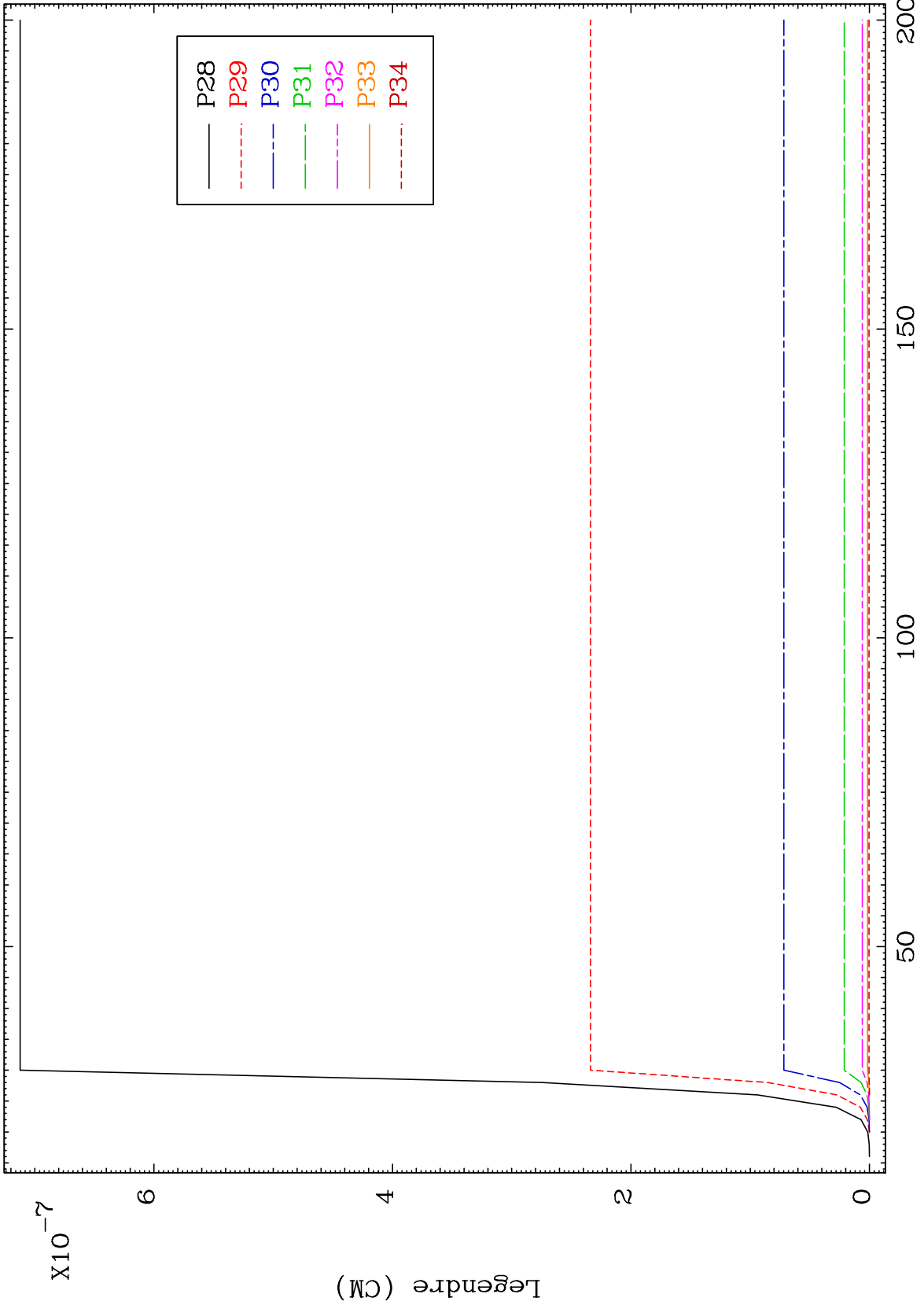
MAT 4219 MT= 51 (n,n') Level Legendre Coefficients 42-Mo-90



MAT 4219

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

42-Mo-90

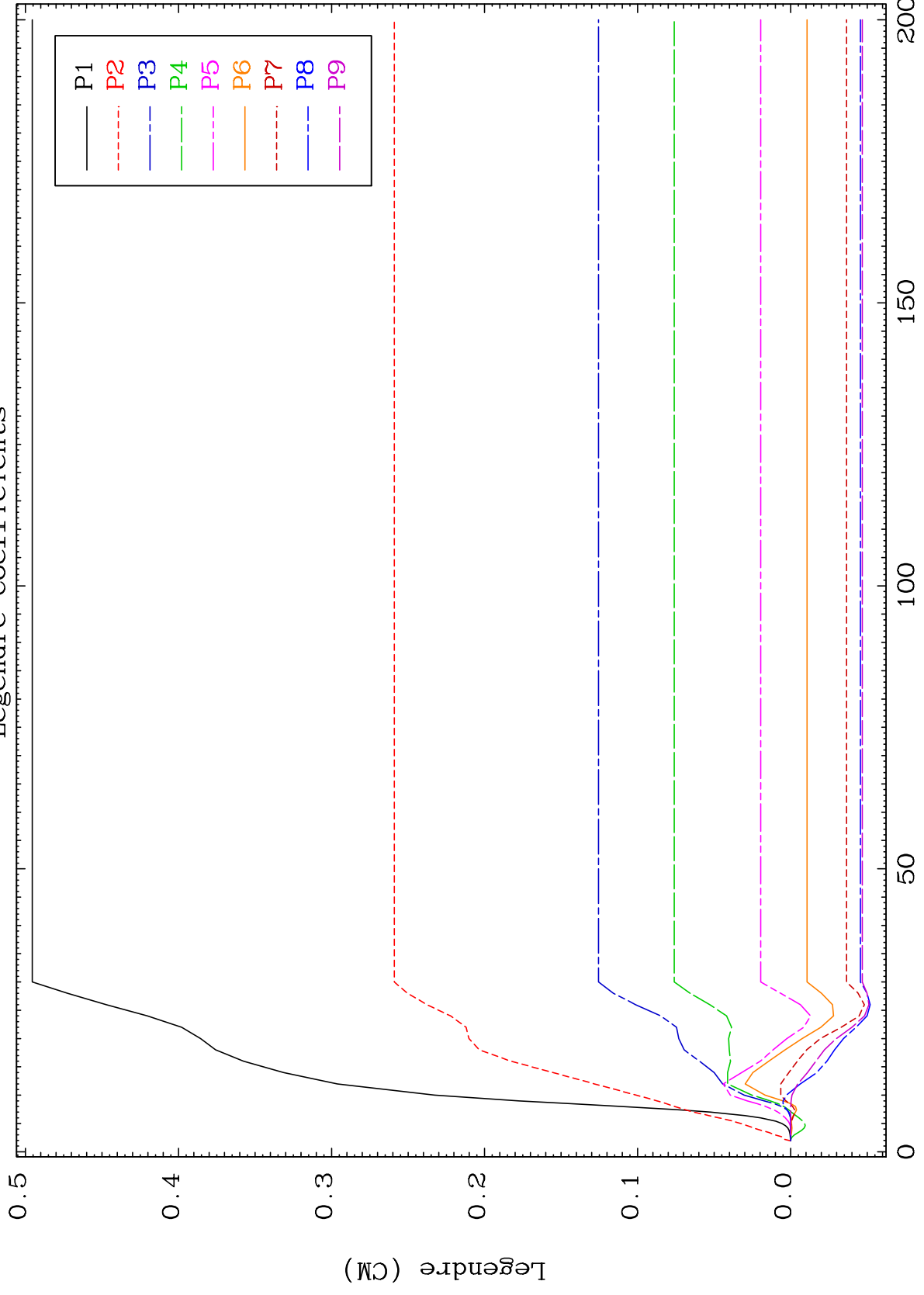


22

Incident Energy (MeV)

42-Mo-90

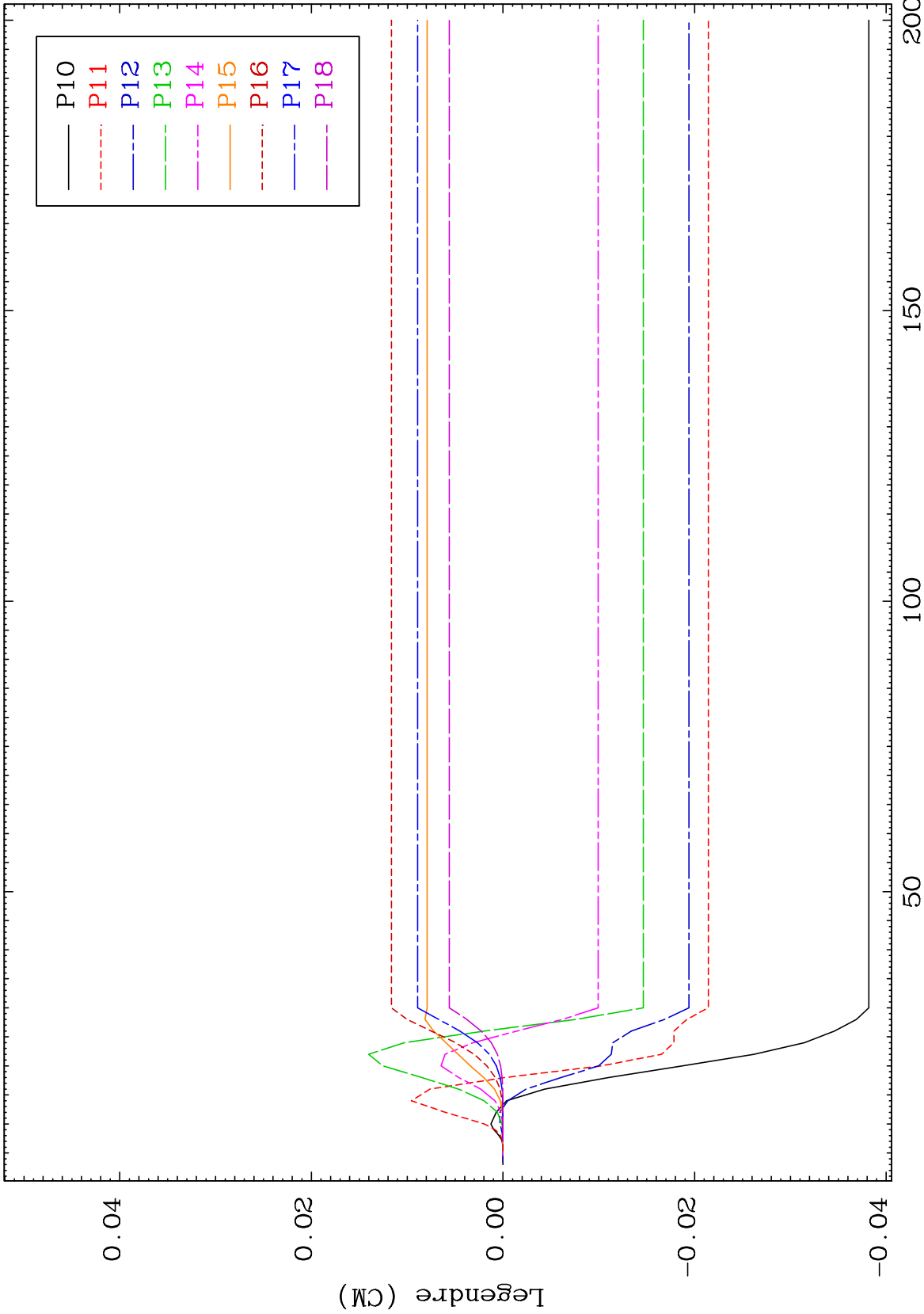
MAT 4219 MT= 52 (n,n') Level Legendre Coefficients 42-Mo-90



MAT 4219

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

42-Mo-90

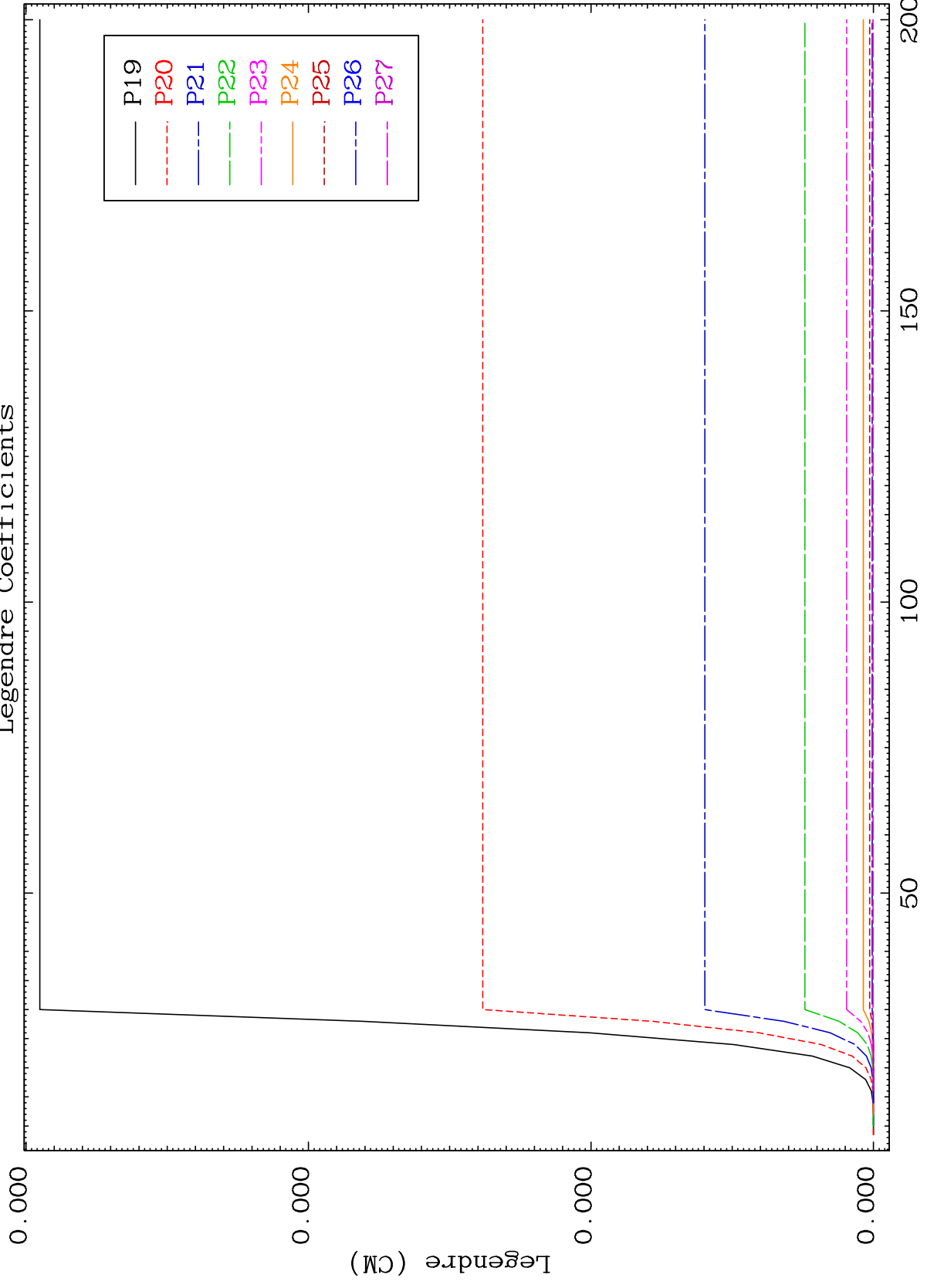


24

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 52 (n,n') Level Legendre Coefficients 42-Mo-90

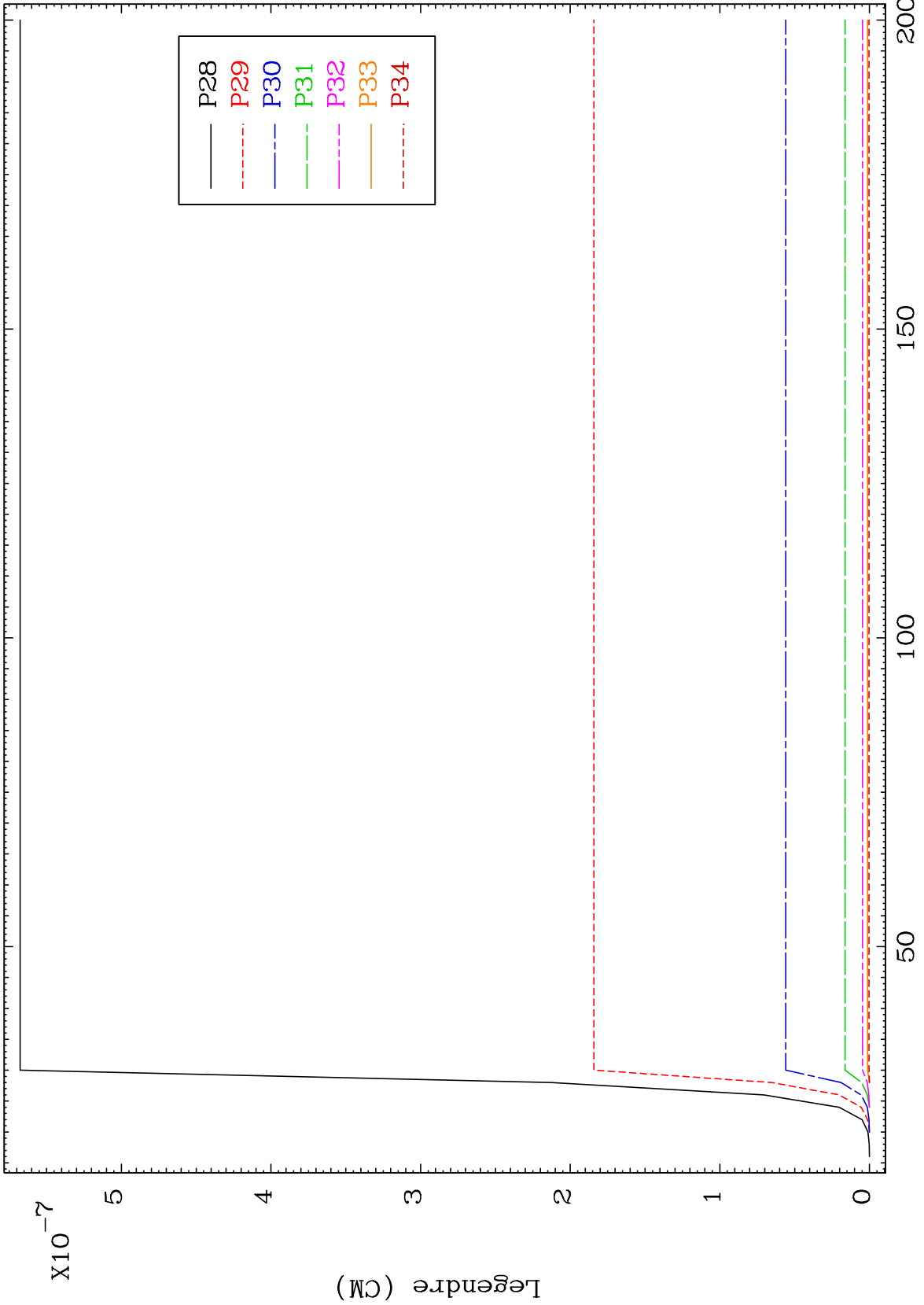


25 50 100 150 200 42-Mo-90

MAT 4219

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

42-Mo-90



26

42-Mo-90

MAT 4219

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

42-Mo-90



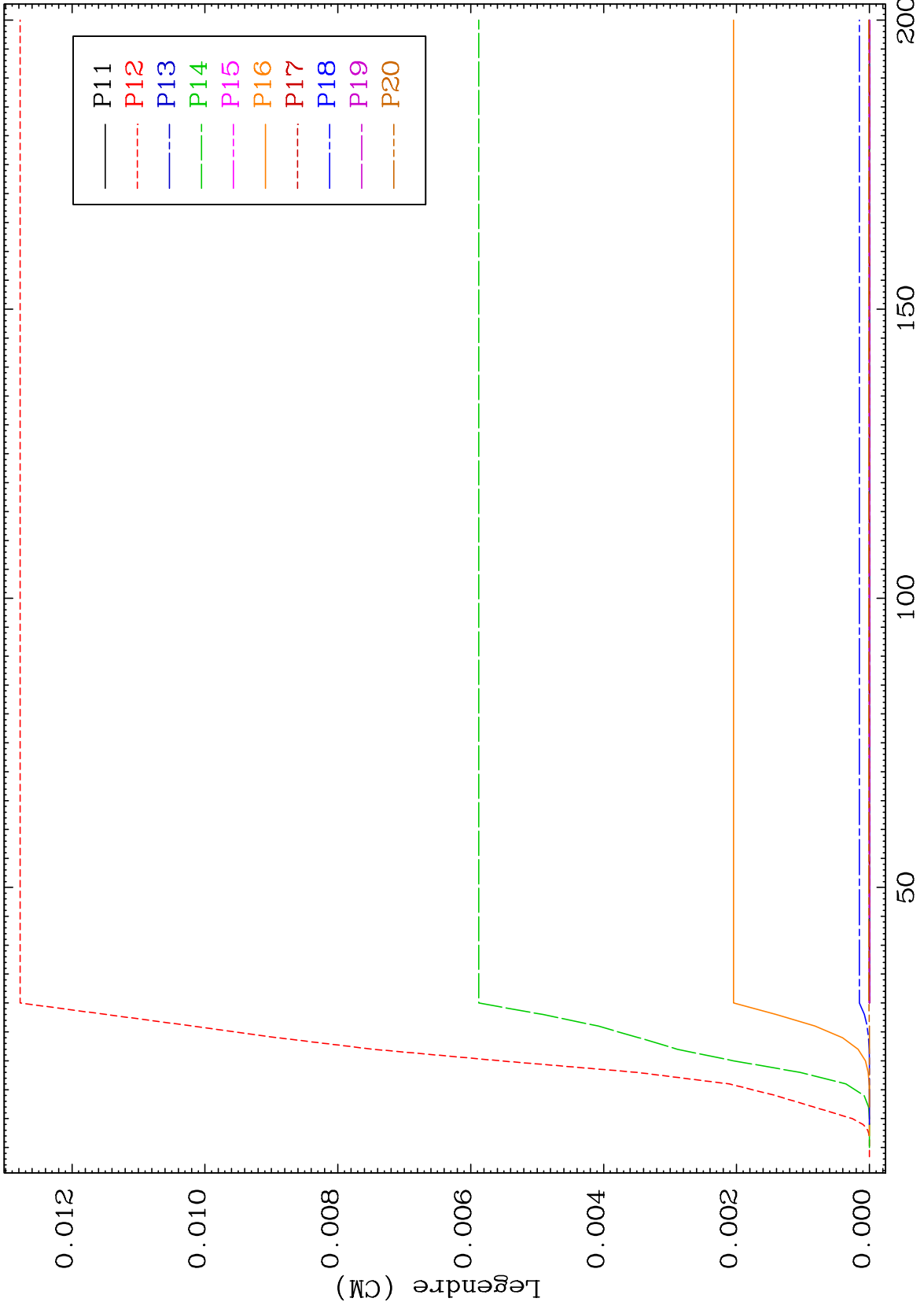
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42-Mo-90

MAT 4219

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

42-Mo-90

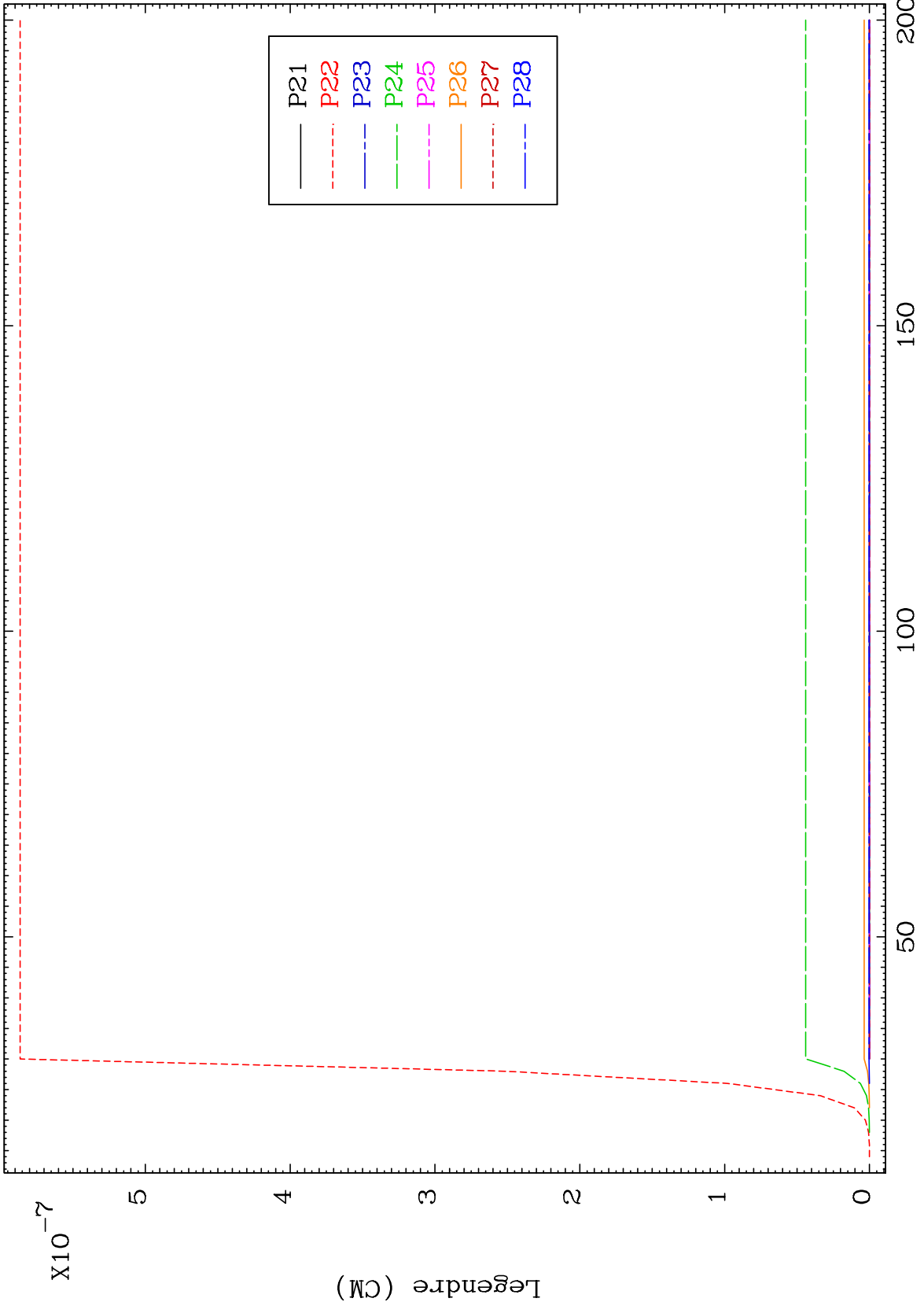


28

Incident Energy (MeV)

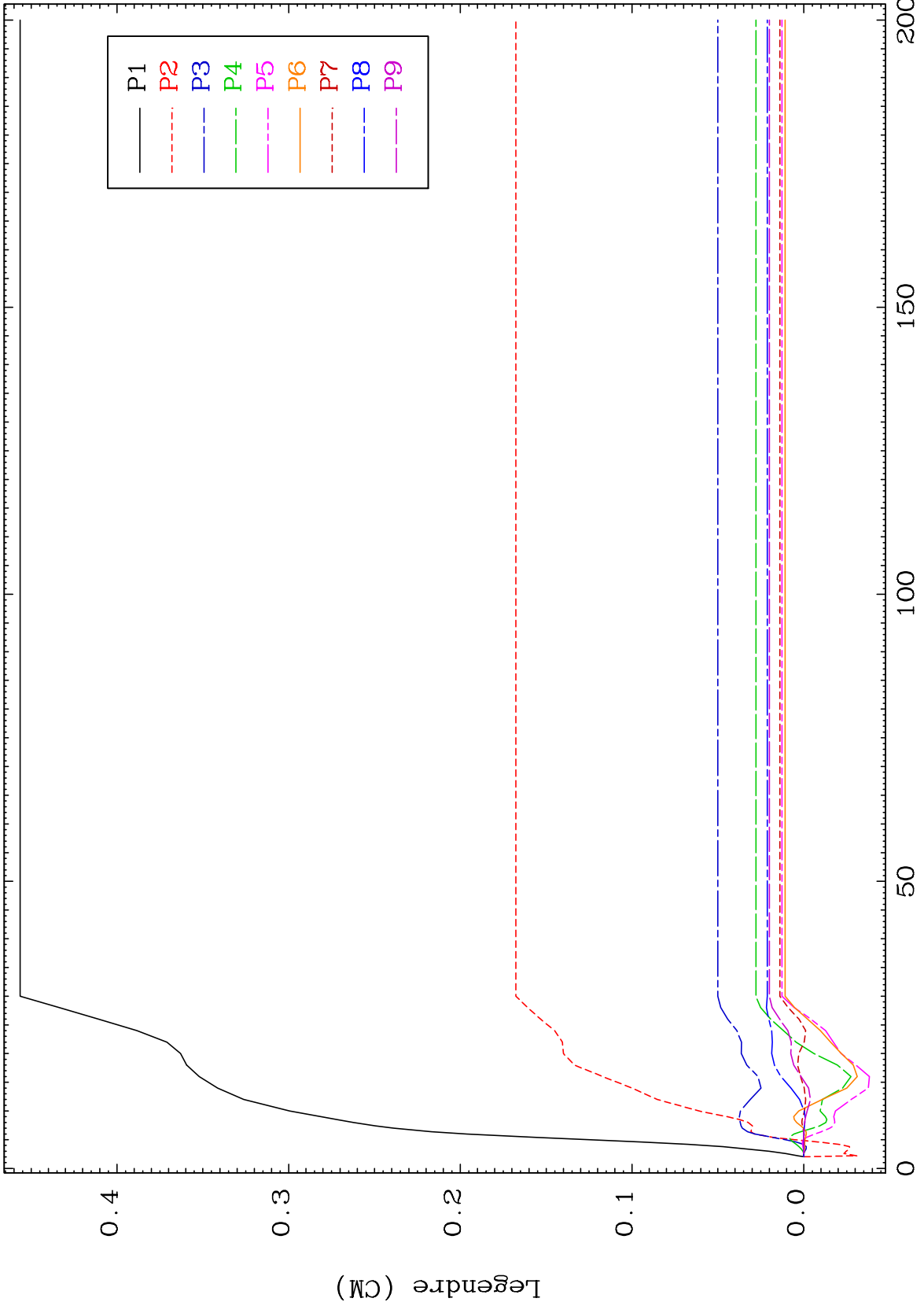
42-Mo-90

MAT 4219 MT= 53 (n,n') Level Legendre Coefficients 42-Mo-90



29 50 100 150 200 42-Mo-90

MAT 4219 MT= 54 (n,n') Level Legendre Coefficients 42-Mo-90

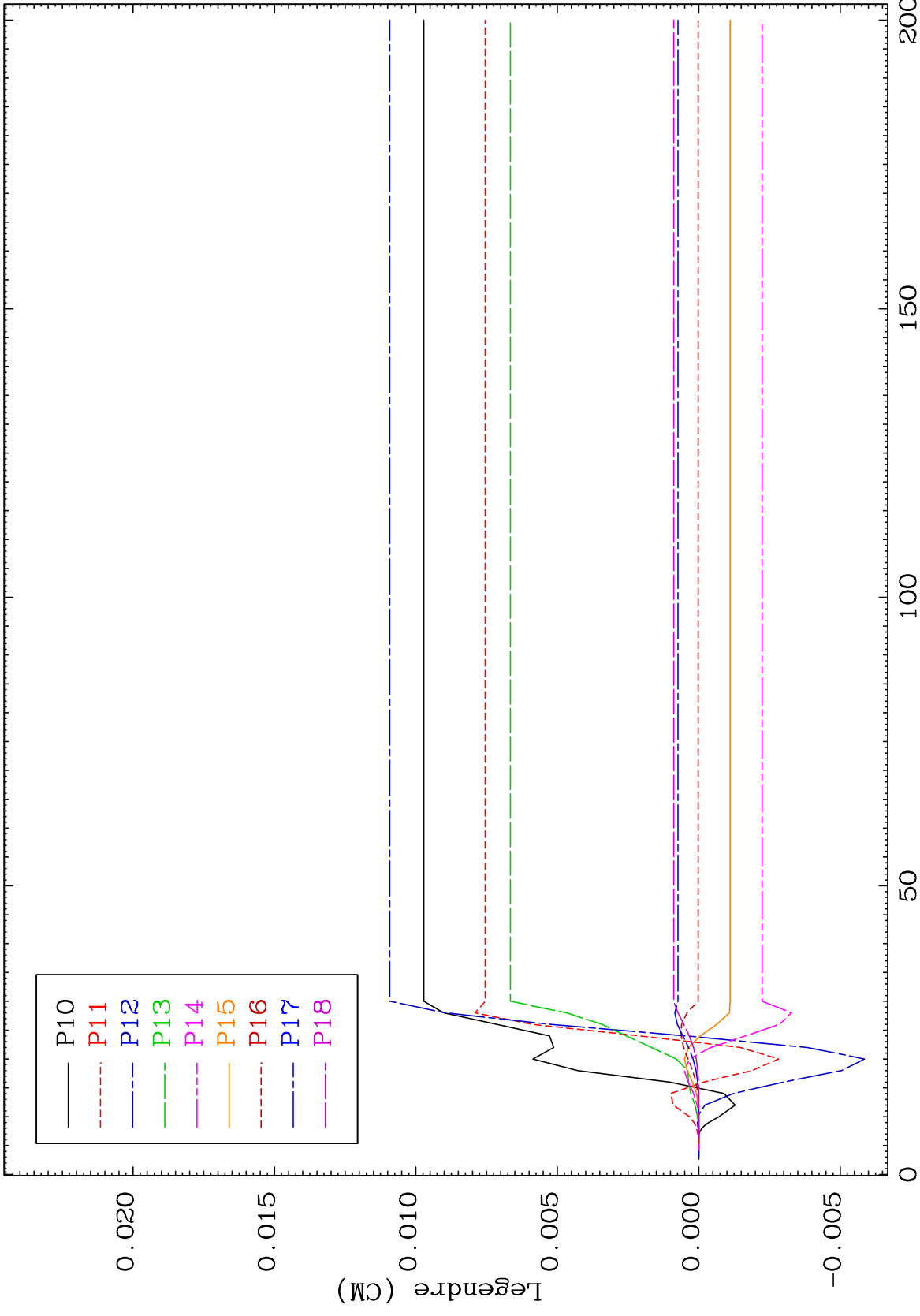


Legendre (CM) Incident Energy (MeV) 42-Mo-90

MAT 4219

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

42-Mo-90



31

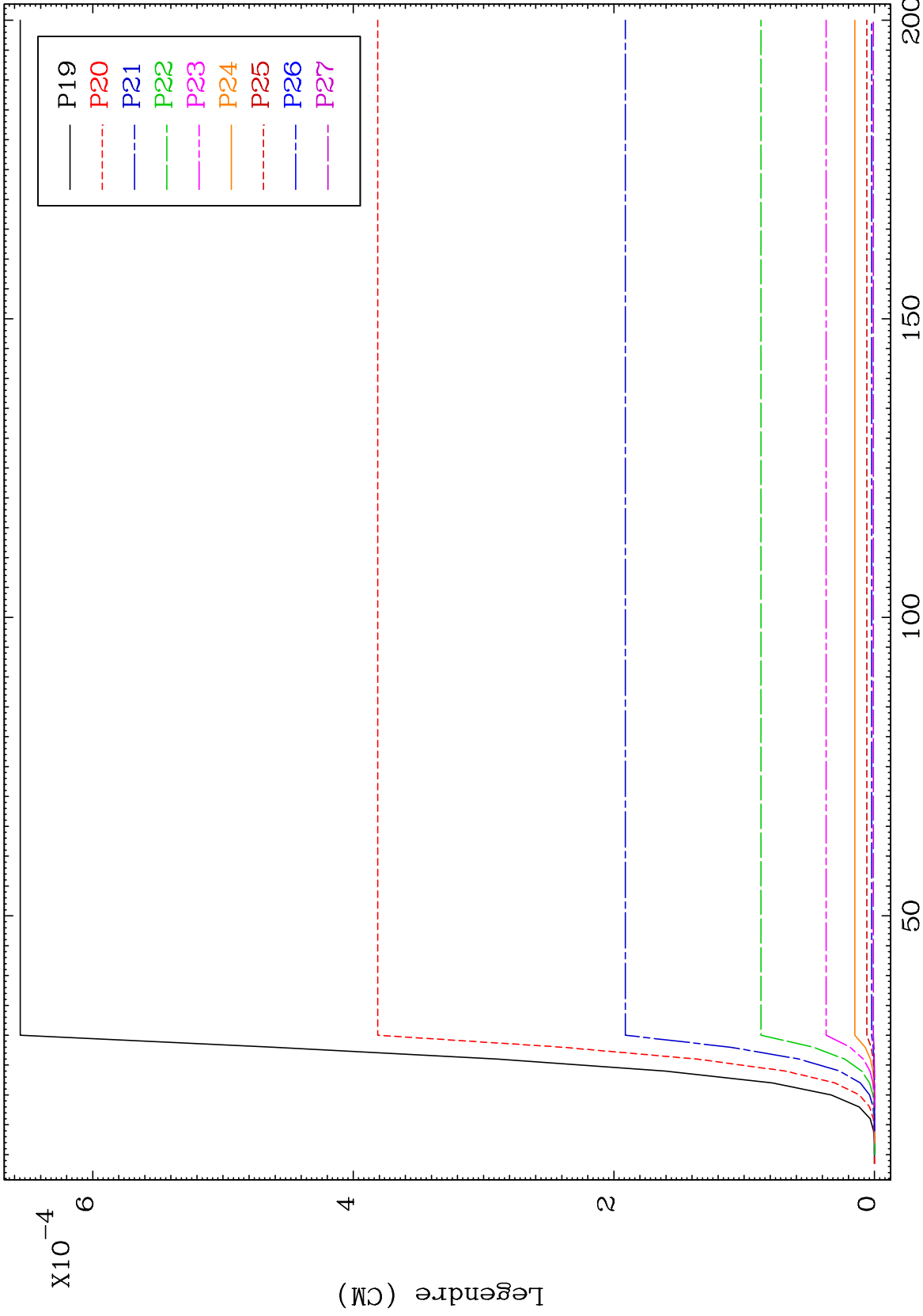
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

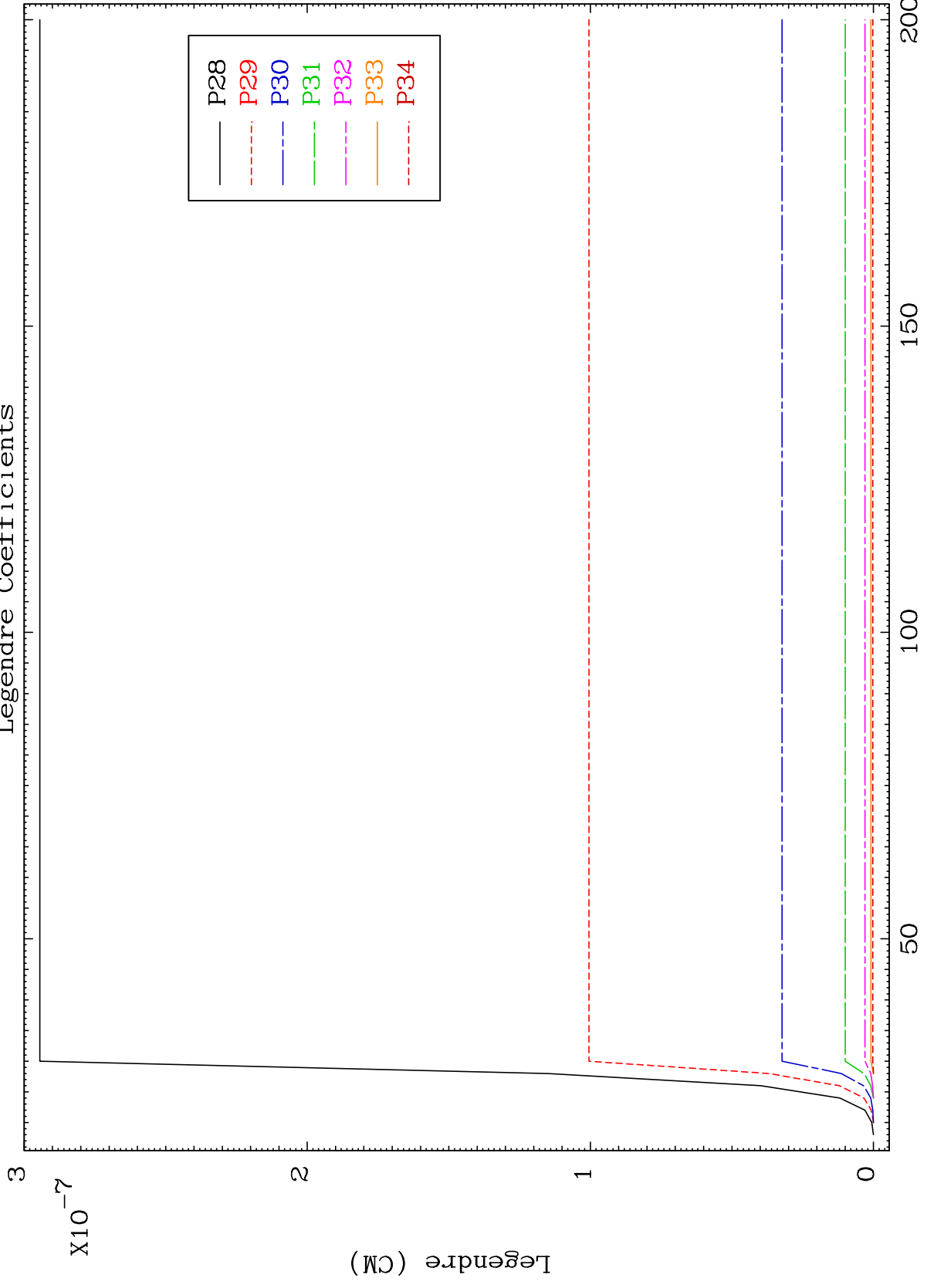


32

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 54 (n,n') Level Legendre Coefficients 42-Mo-90

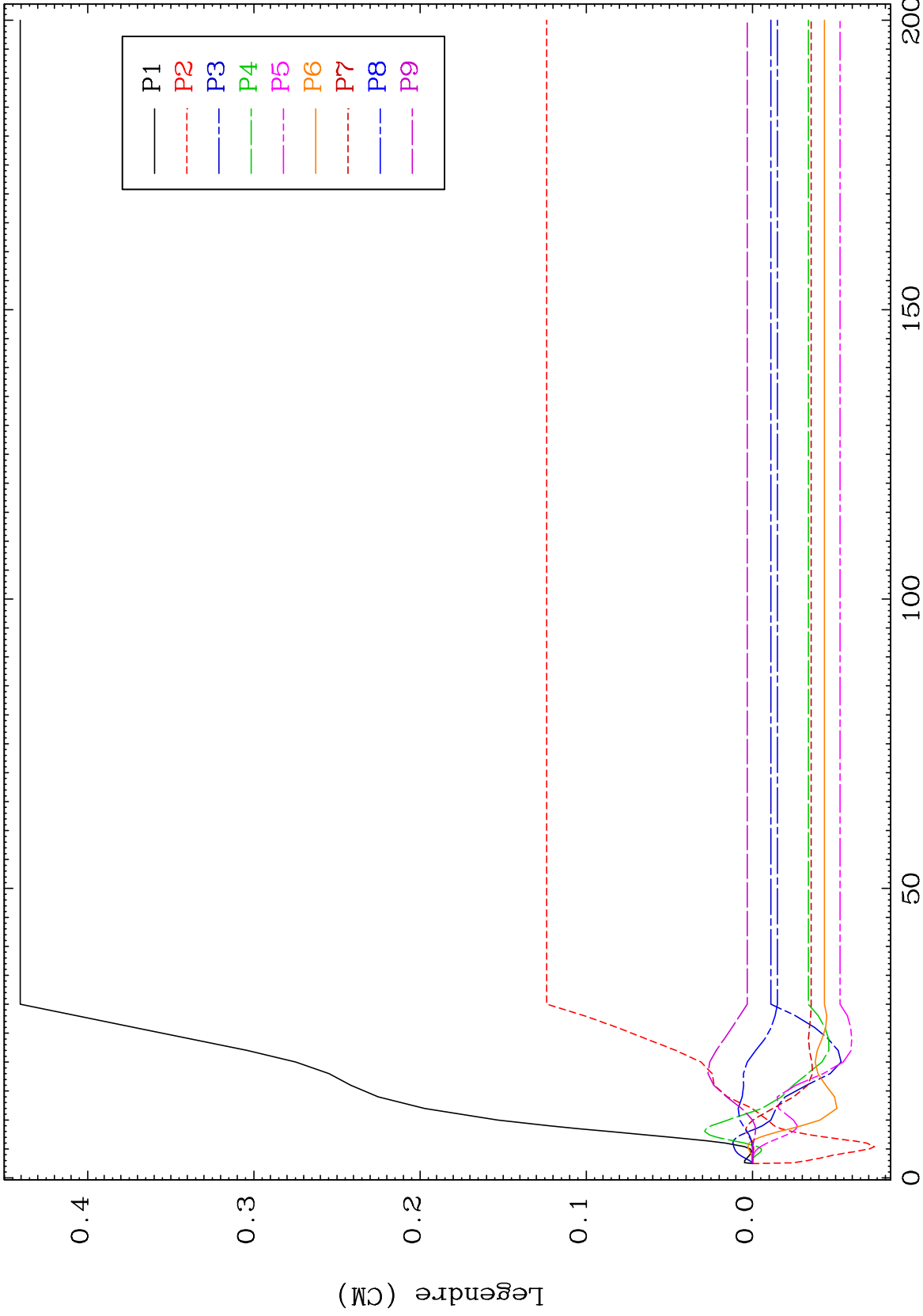


33 42-Mo-90

MAT 4219

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

42-Mo-90



34

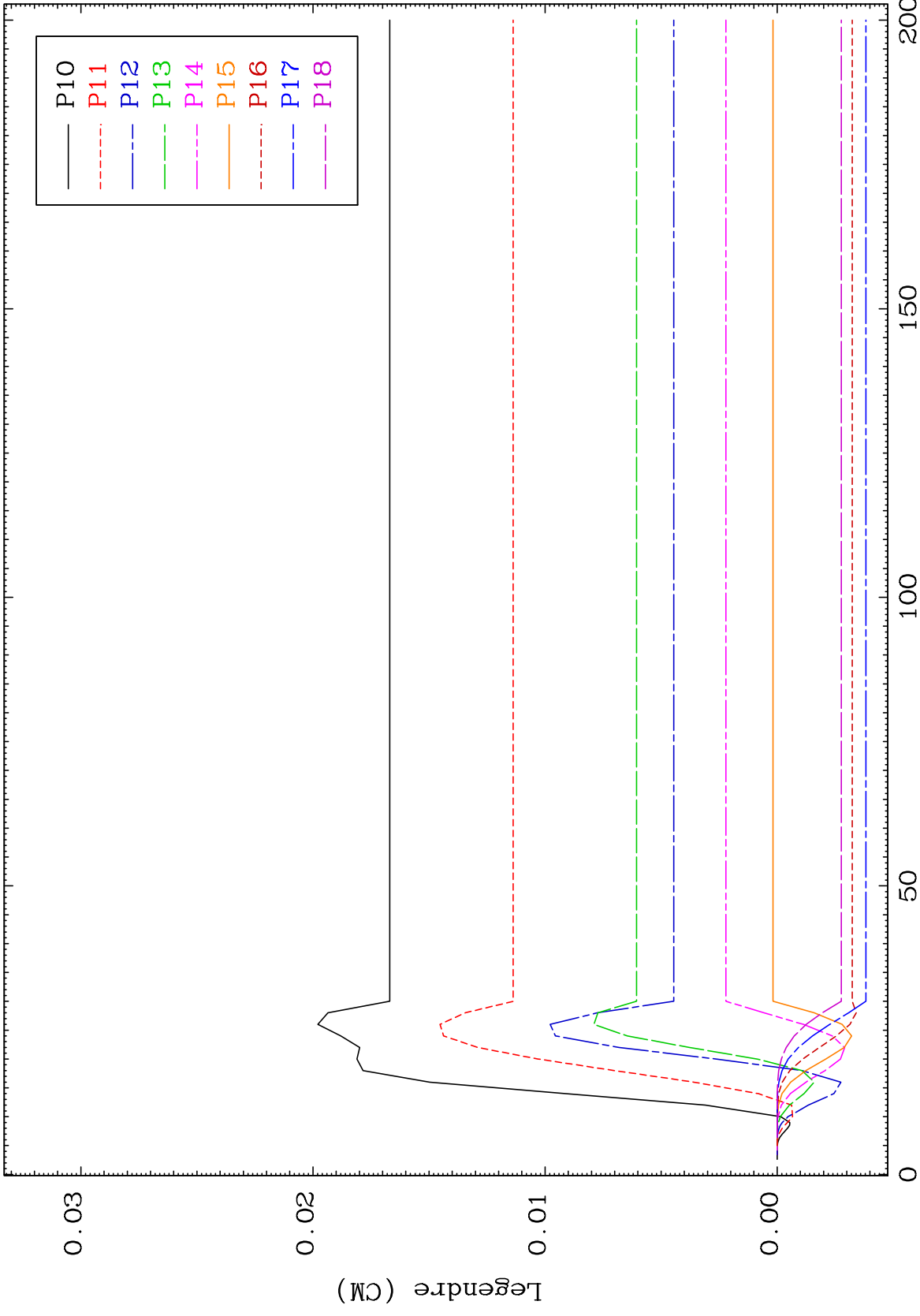
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



35

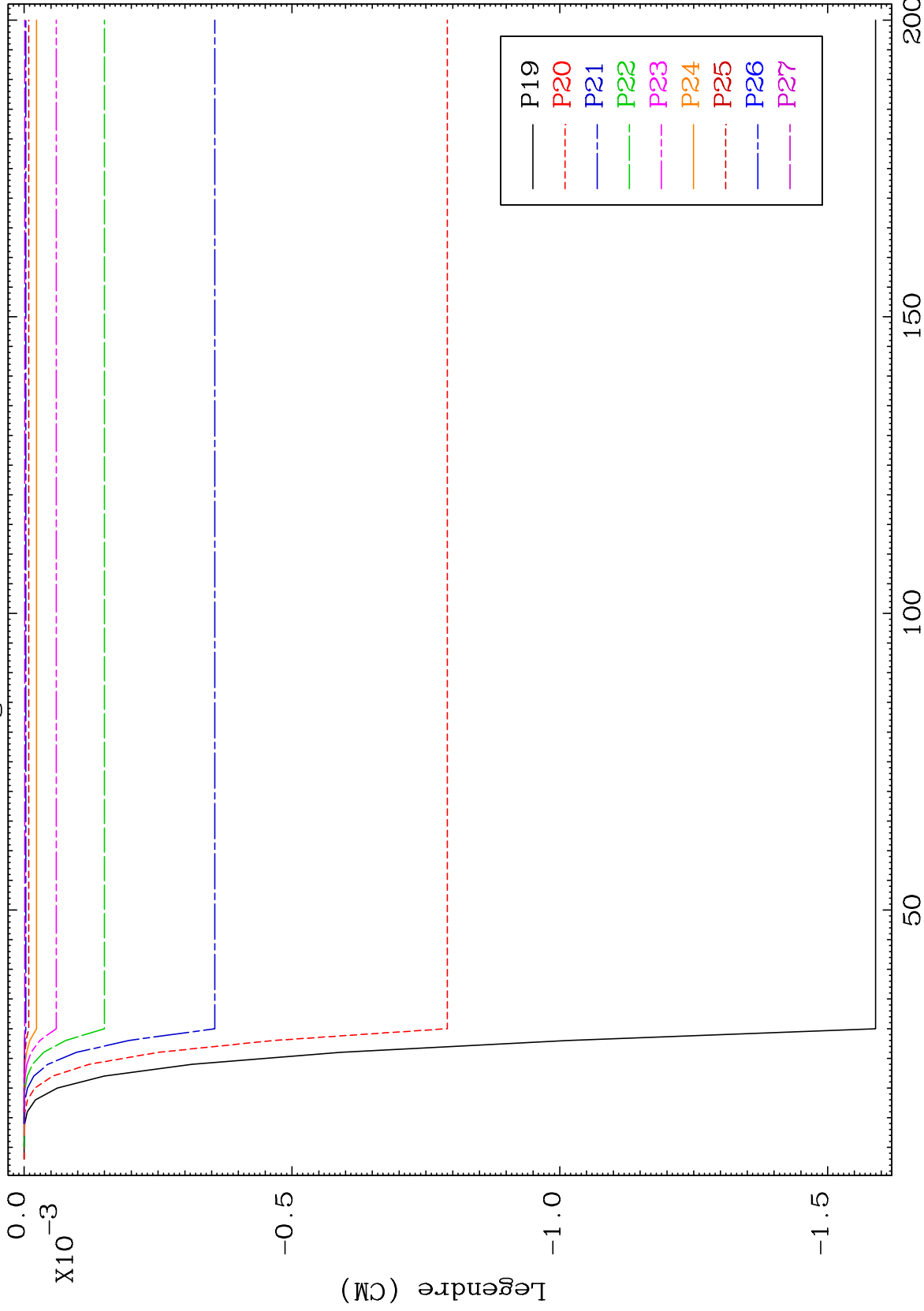
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

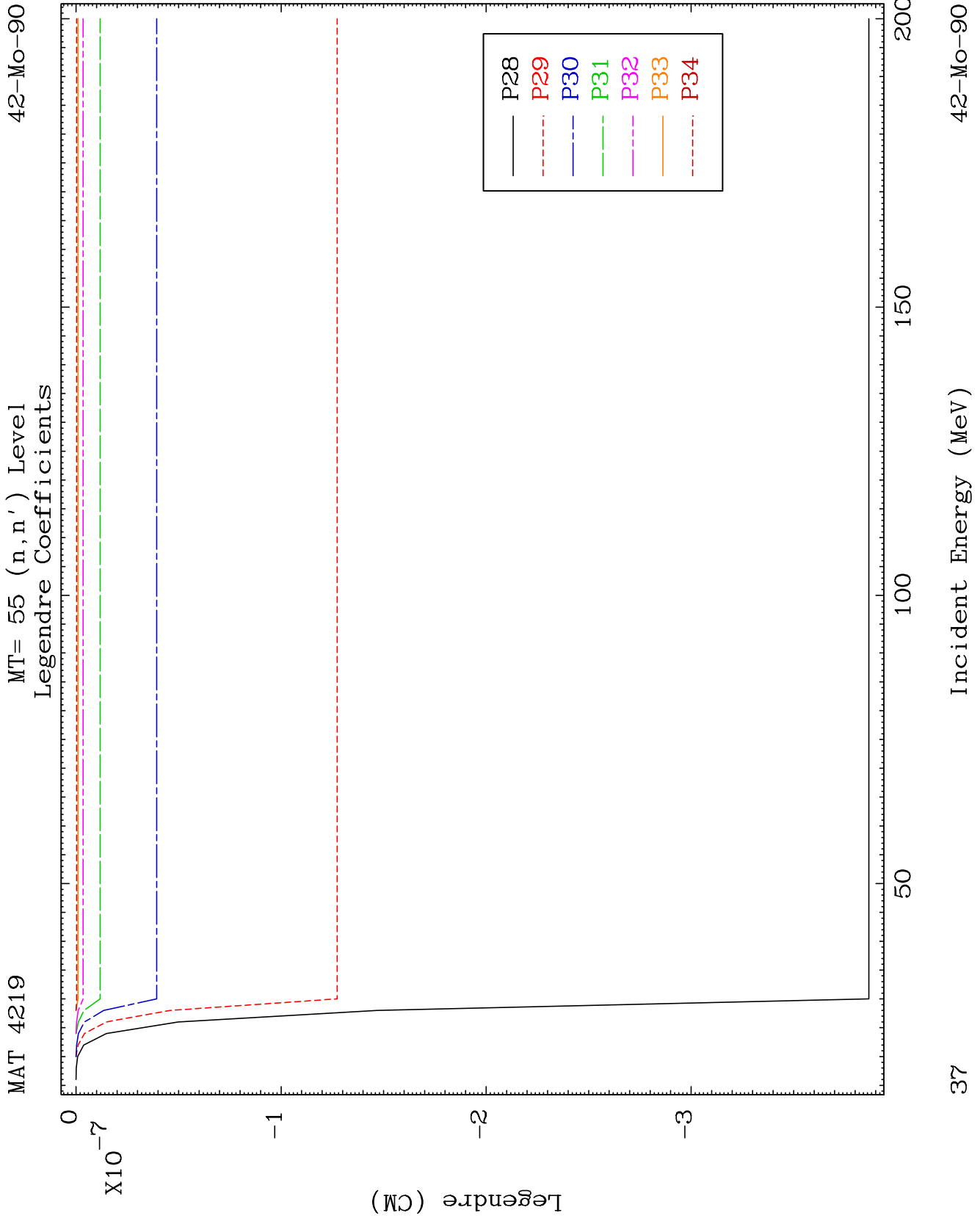
42-Mo-90



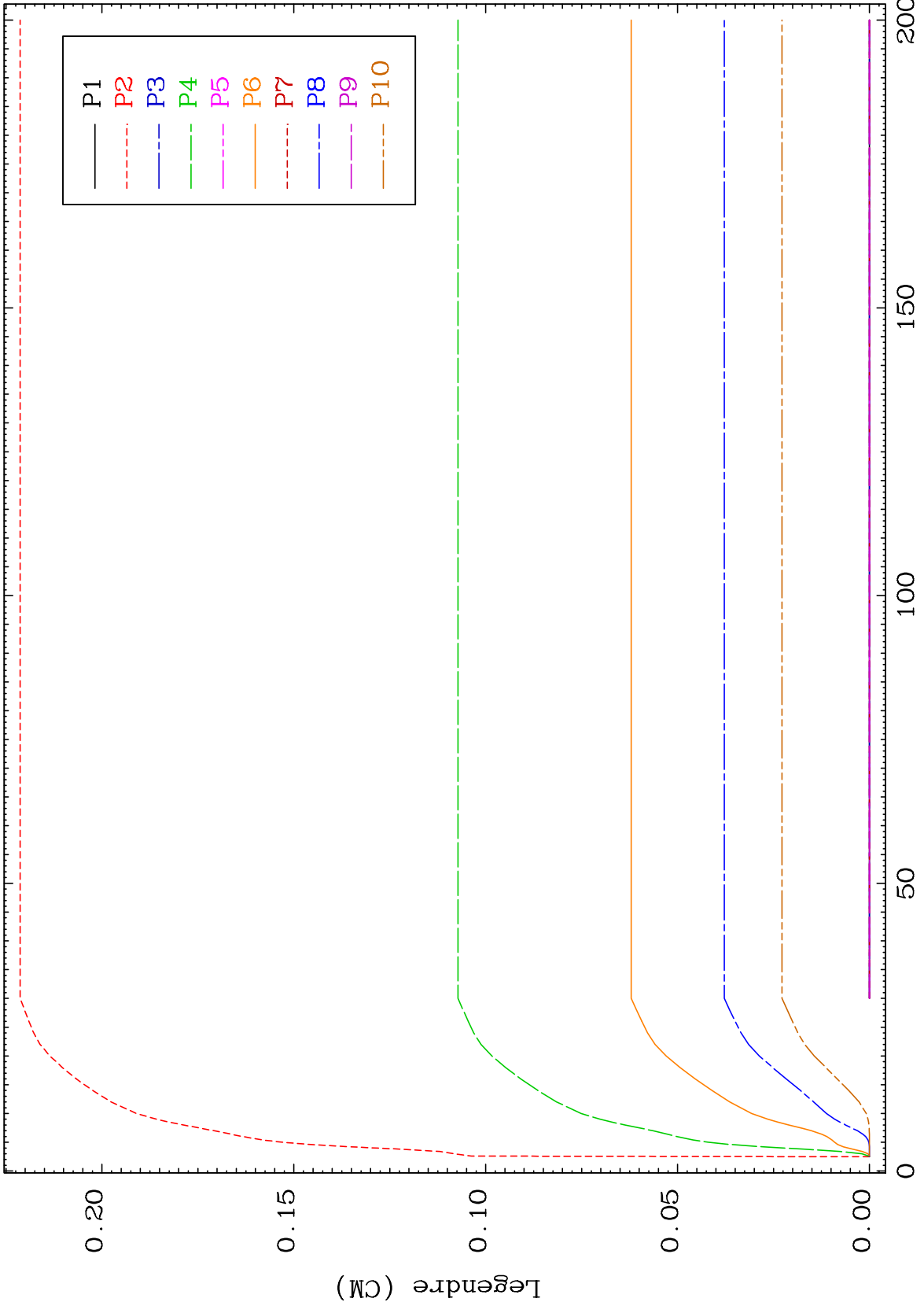
36

Incident Energy (MeV)

42-Mo-90

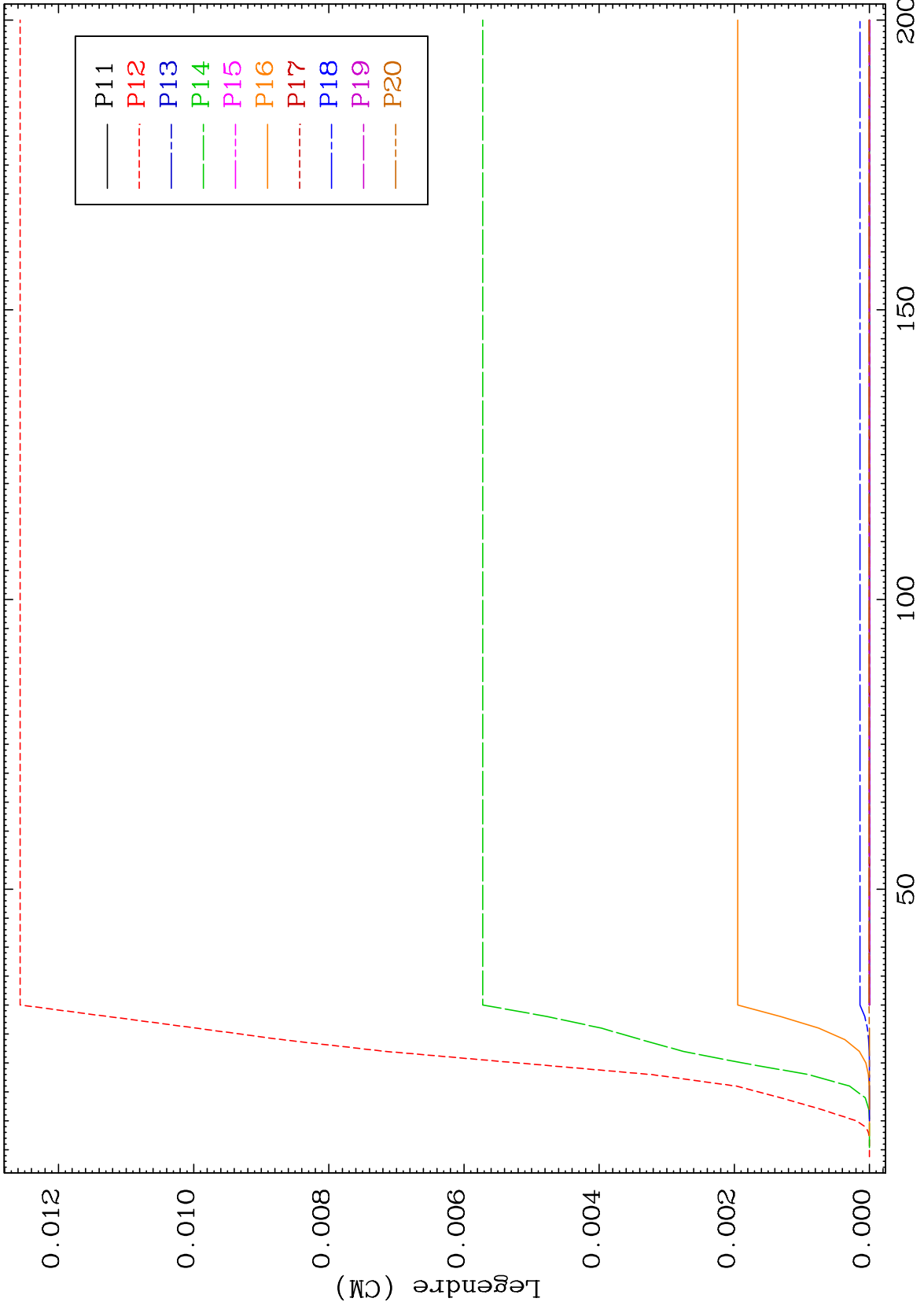


MAT 4219 MT= 56 (n,n') Level Legendre Coefficients 42-Mo-90



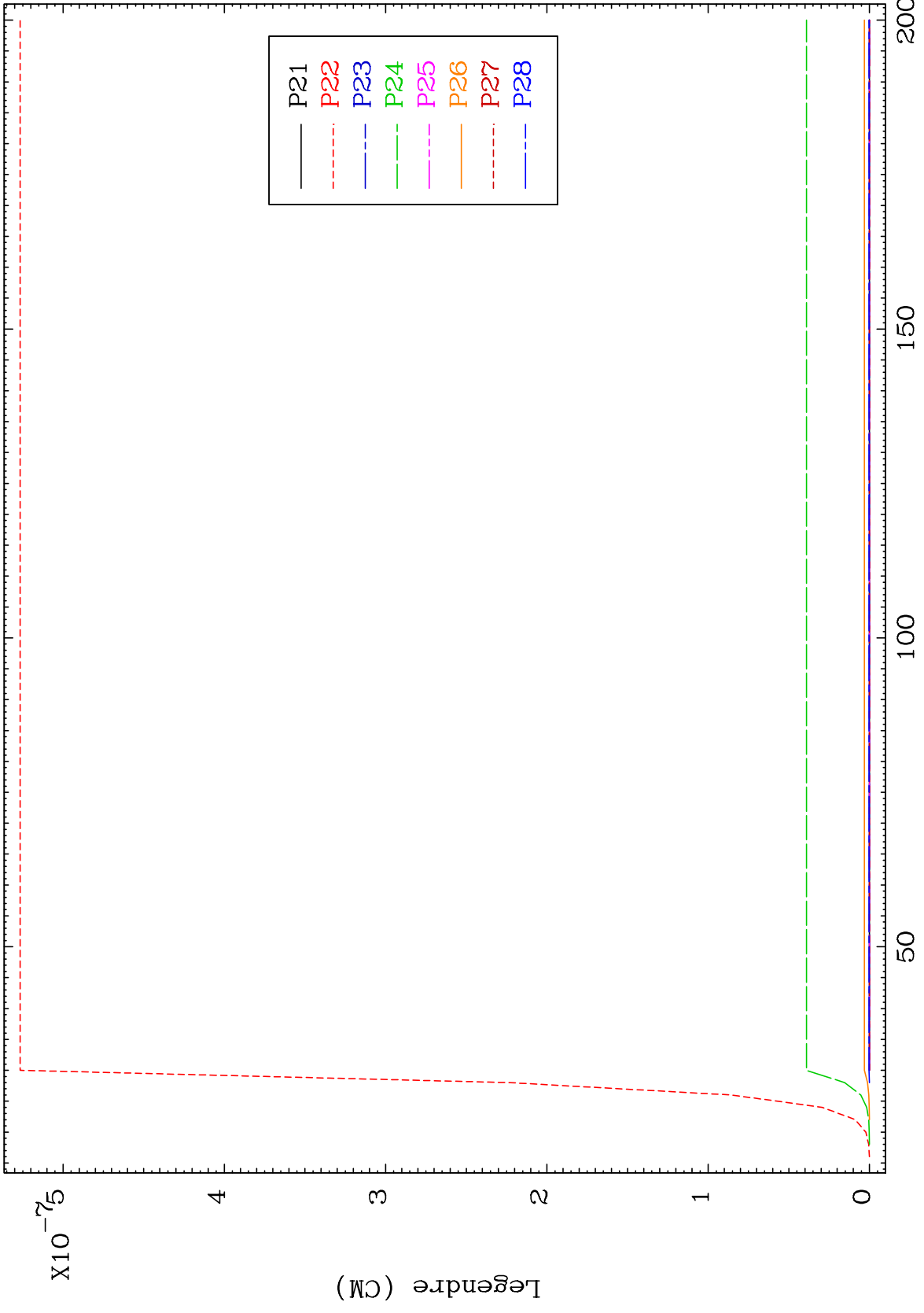
38 42-Mo-90

MAT 4219 MT= 56 (n,n') Level Legendre Coefficients 42-Mo-90



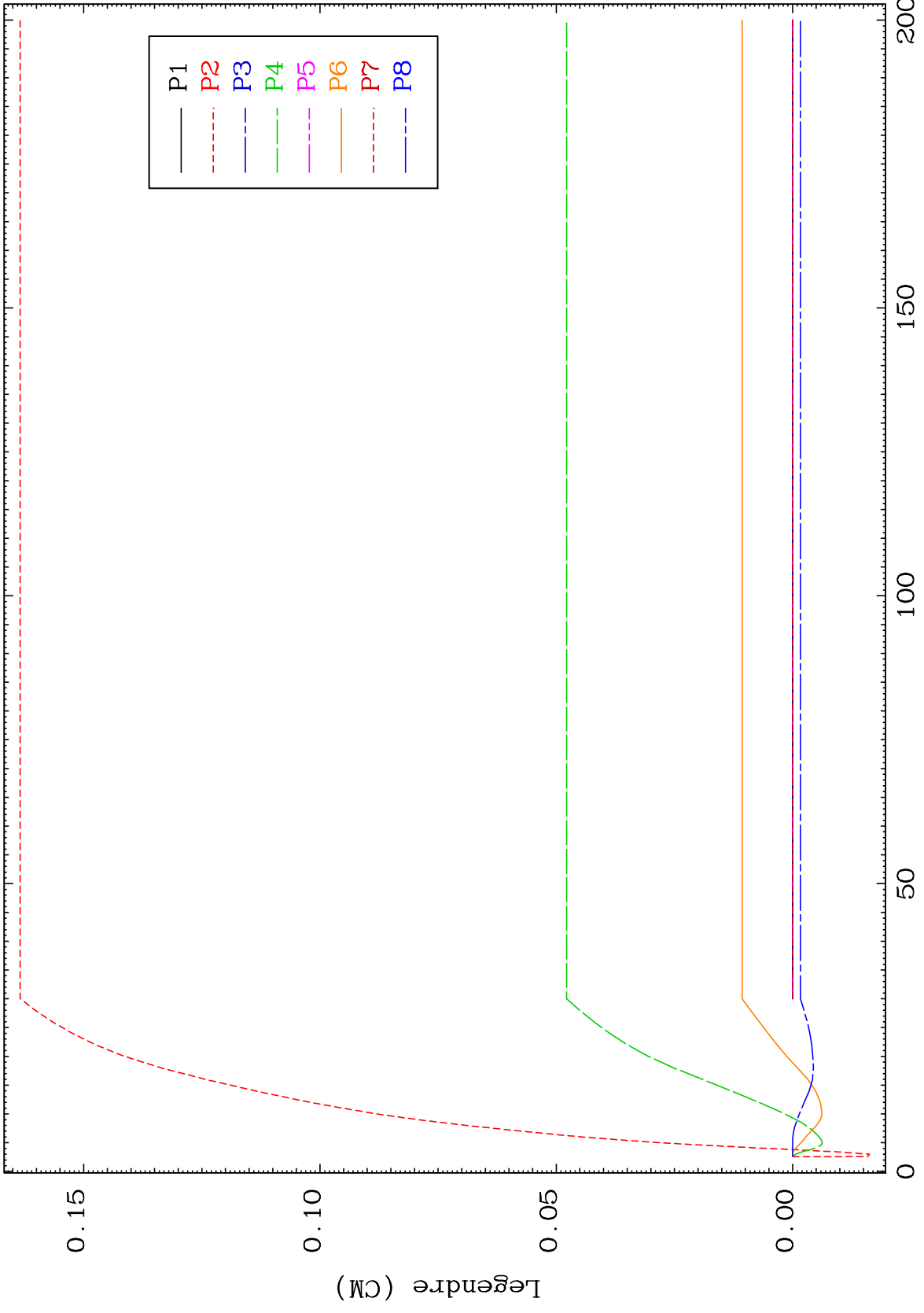
39 Incident Energy (MeV) 42-Mo-90

MAT 4219 MT= 56 (n,n') Level Legendre Coefficients 42-Mo-90



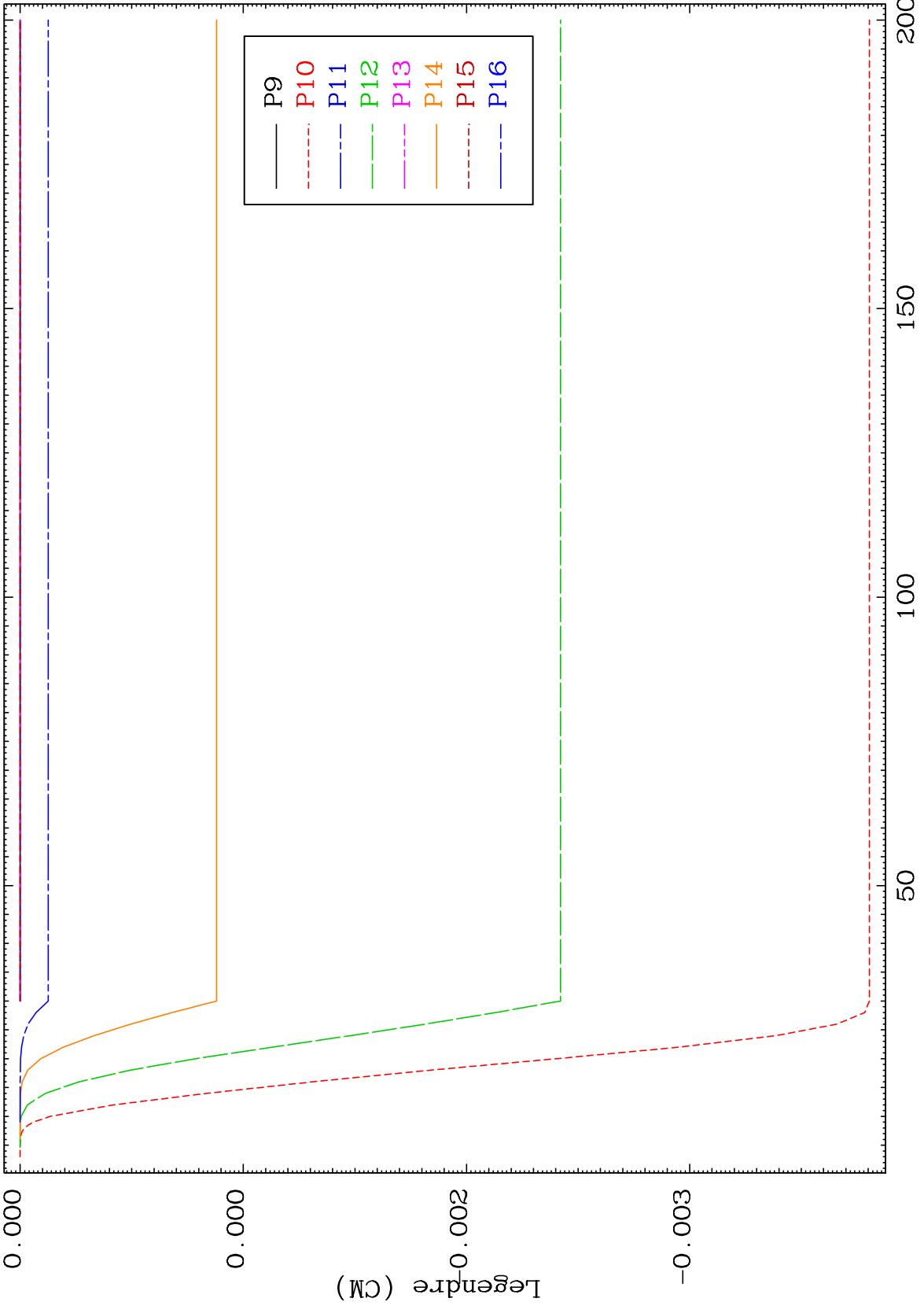
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MAT 4219 MT= 57 (n,n') Level Legendre Coefficients 42-Mo-90



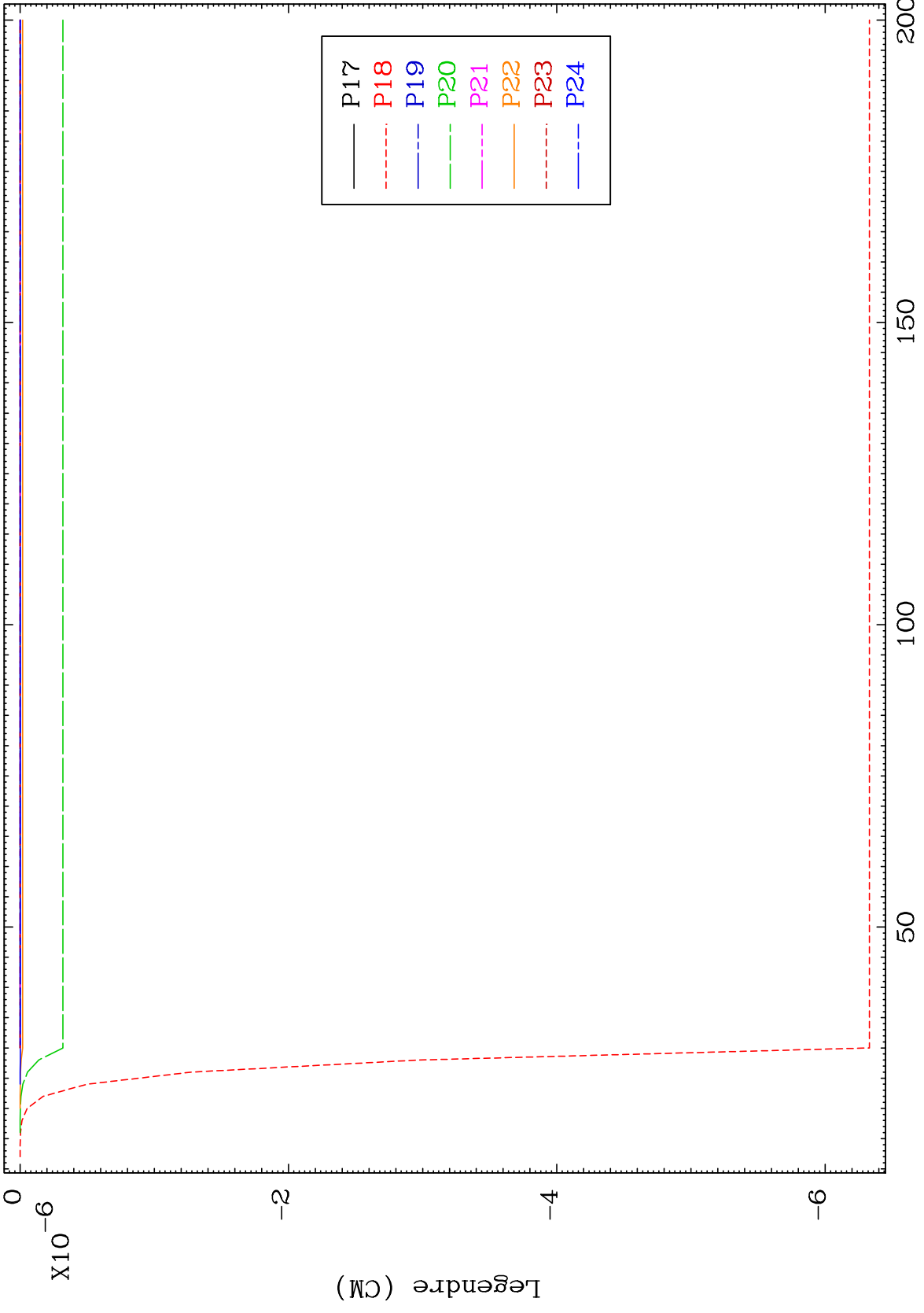
41 42-Mo-90

MAT 4219 MT= 57 (n,n') Level Legendre Coefficients 42-Mo-90



42

MAT 4219 MT= 57 (n,n') Level Legendre Coefficients 42-Mo-90

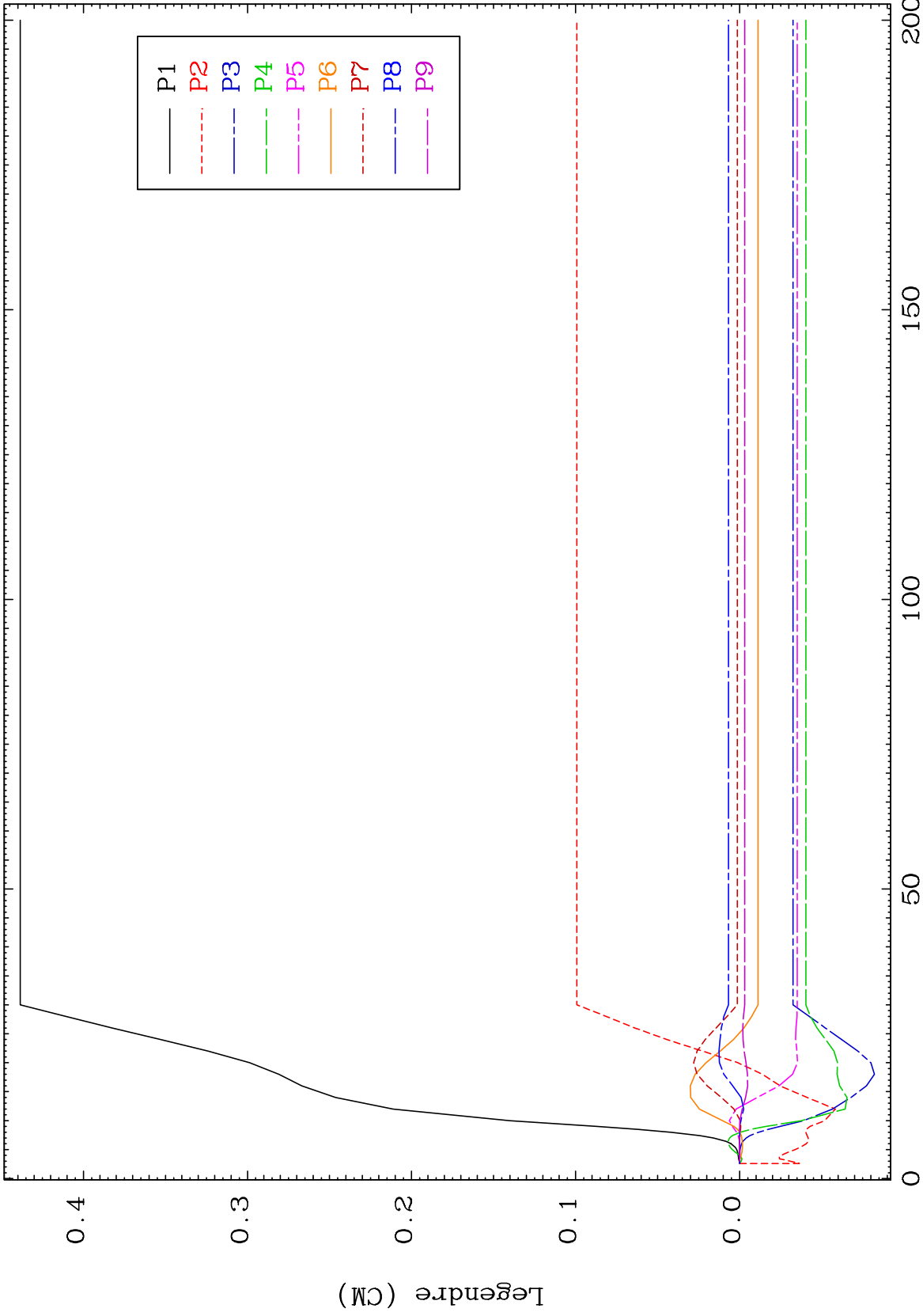


43 42-Mo-90

MAT 4219

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

42-Mo-90



44

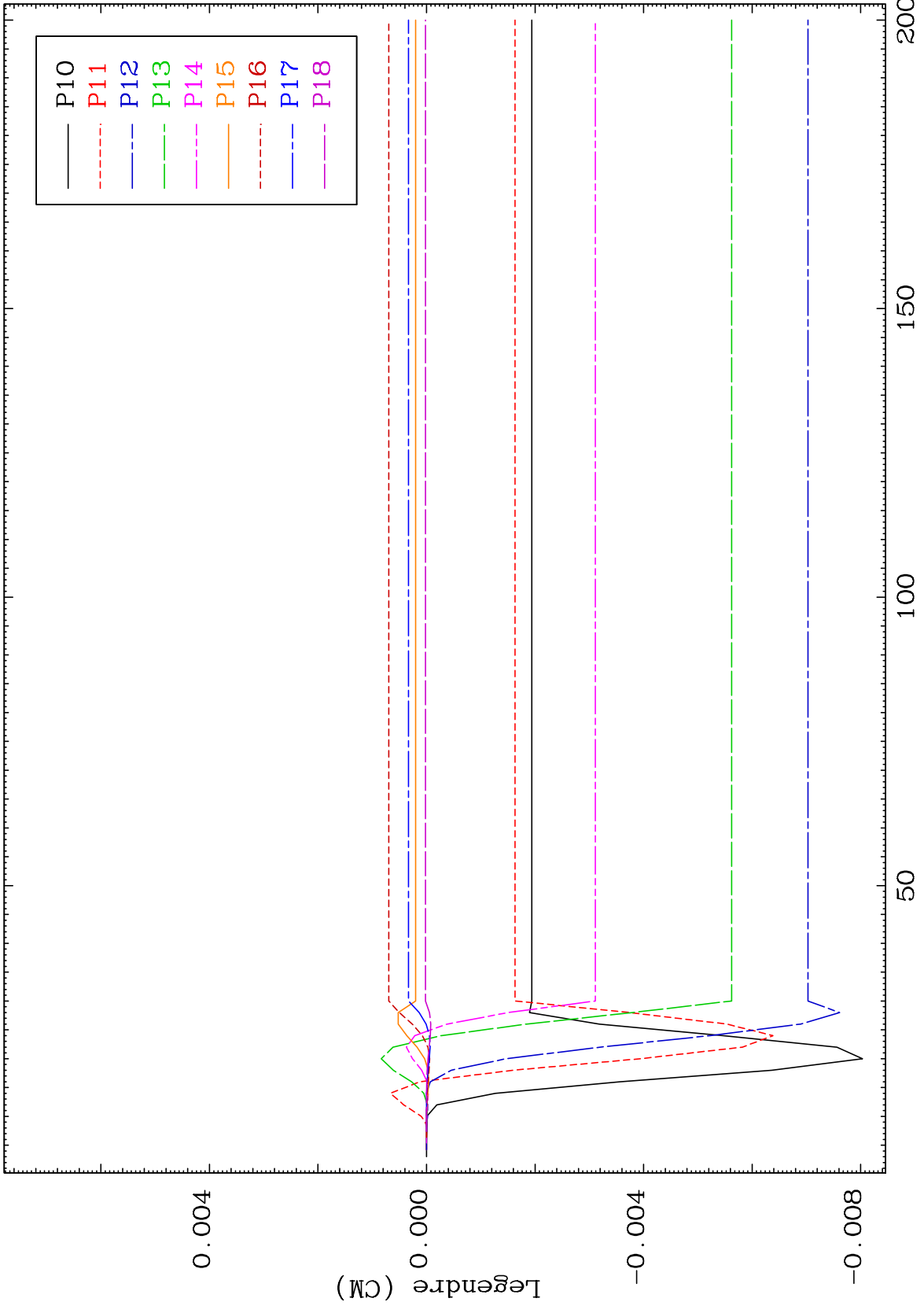
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



45

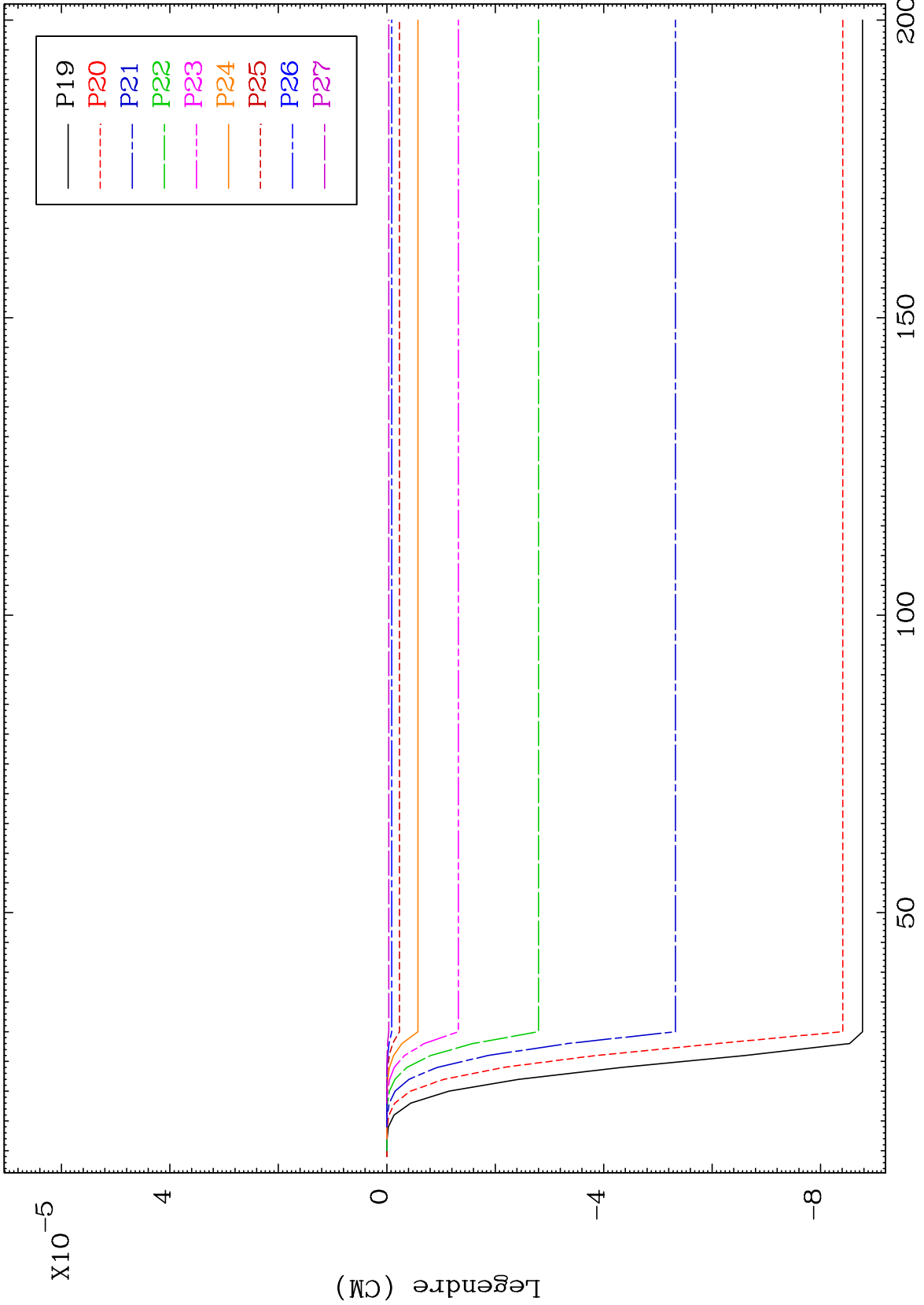
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

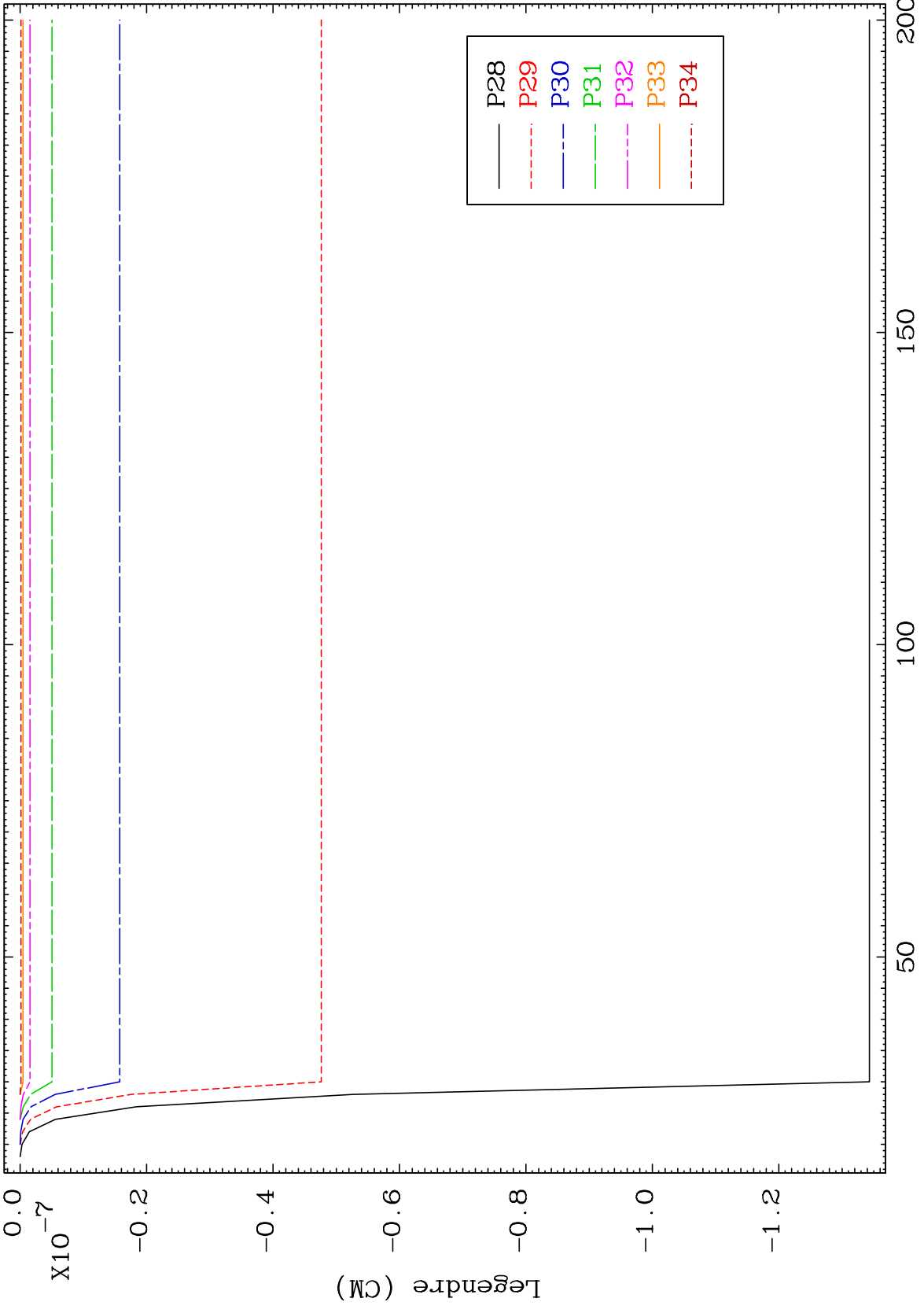


46

Incident Energy (MeV)

42-Mo-90

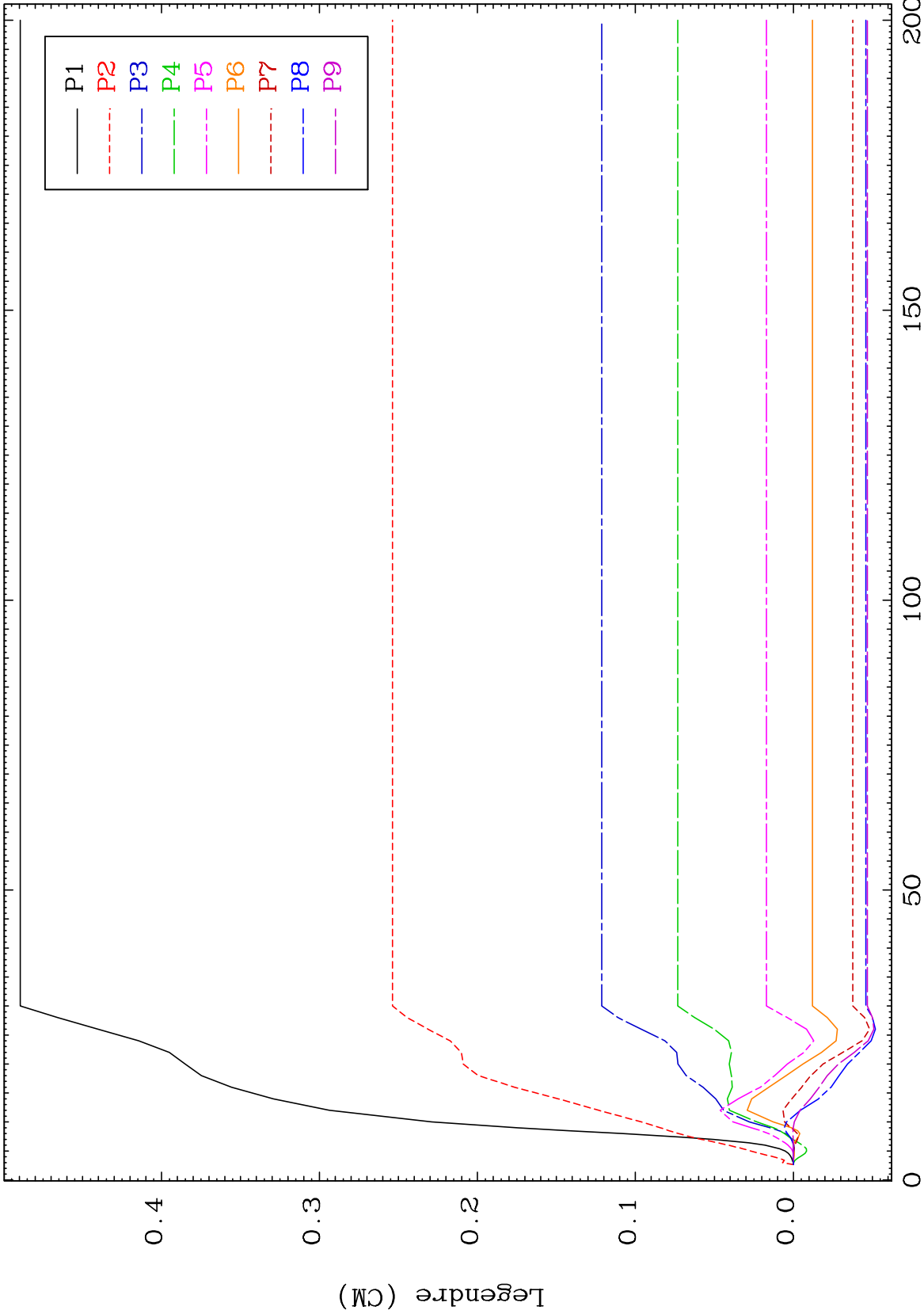
MAT 4219 MT= 58 (n,n') Level Legendre Coefficients 42-Mo-90



MAT 4219

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

42-Mo-90



48

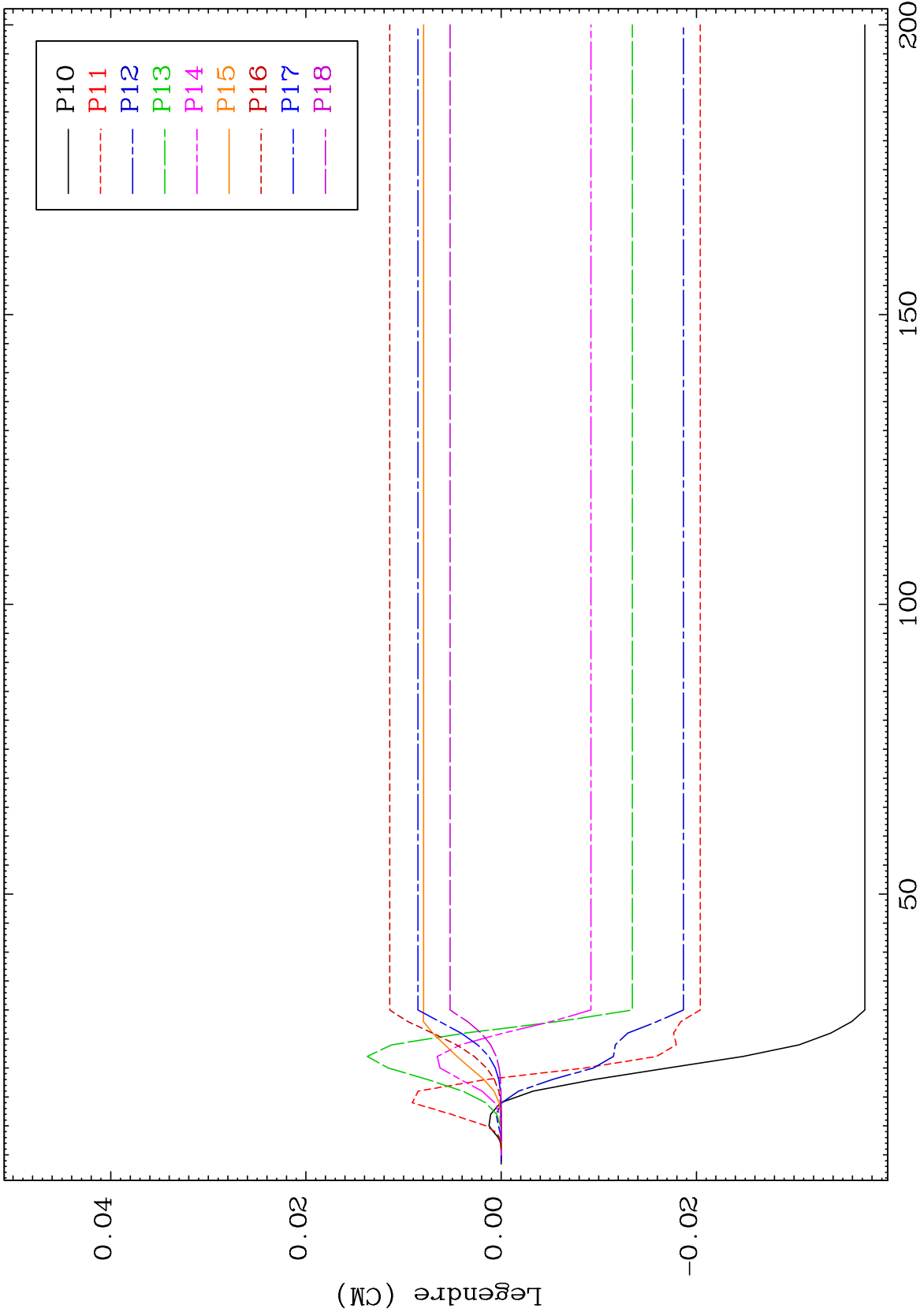
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



49

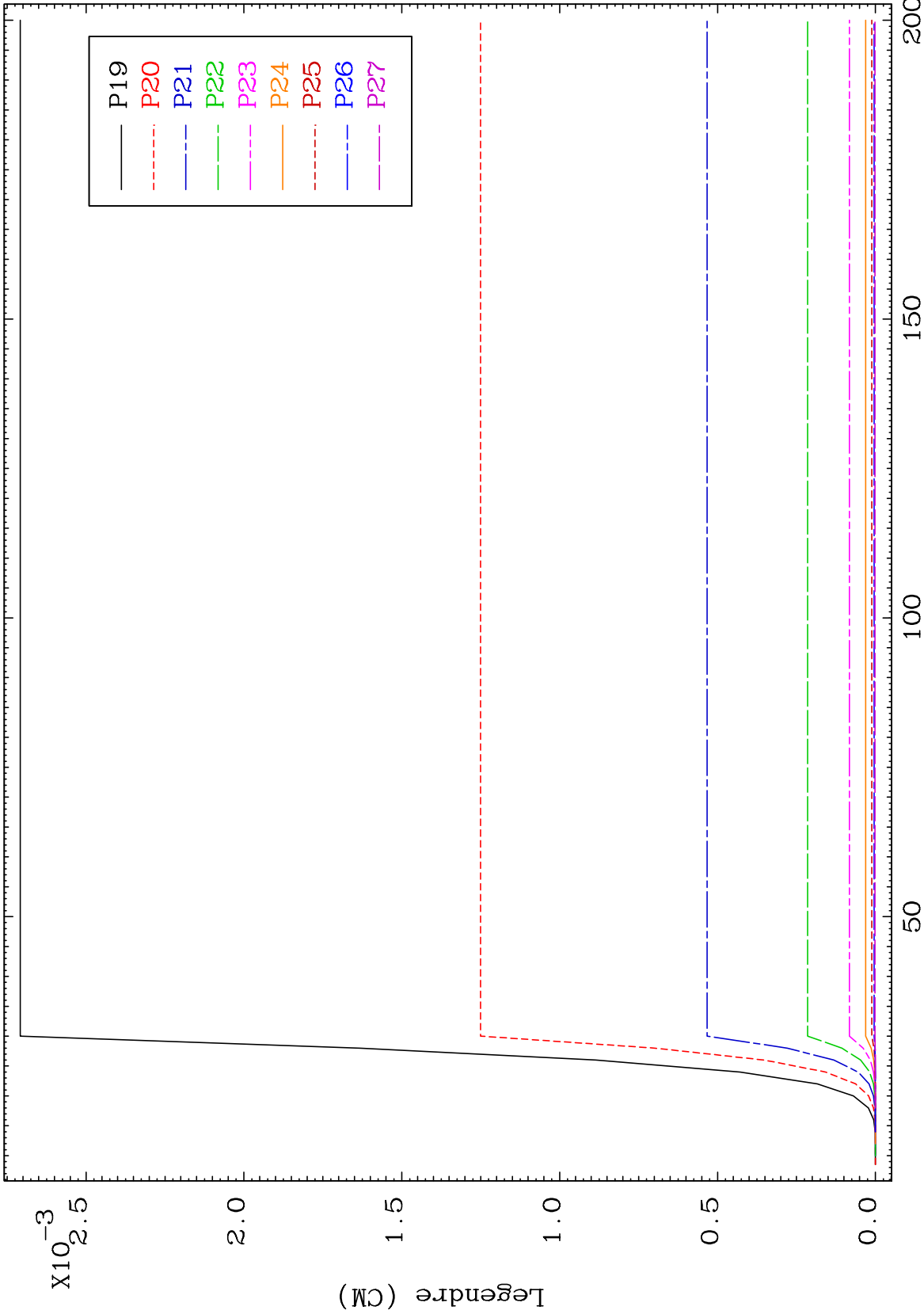
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



50

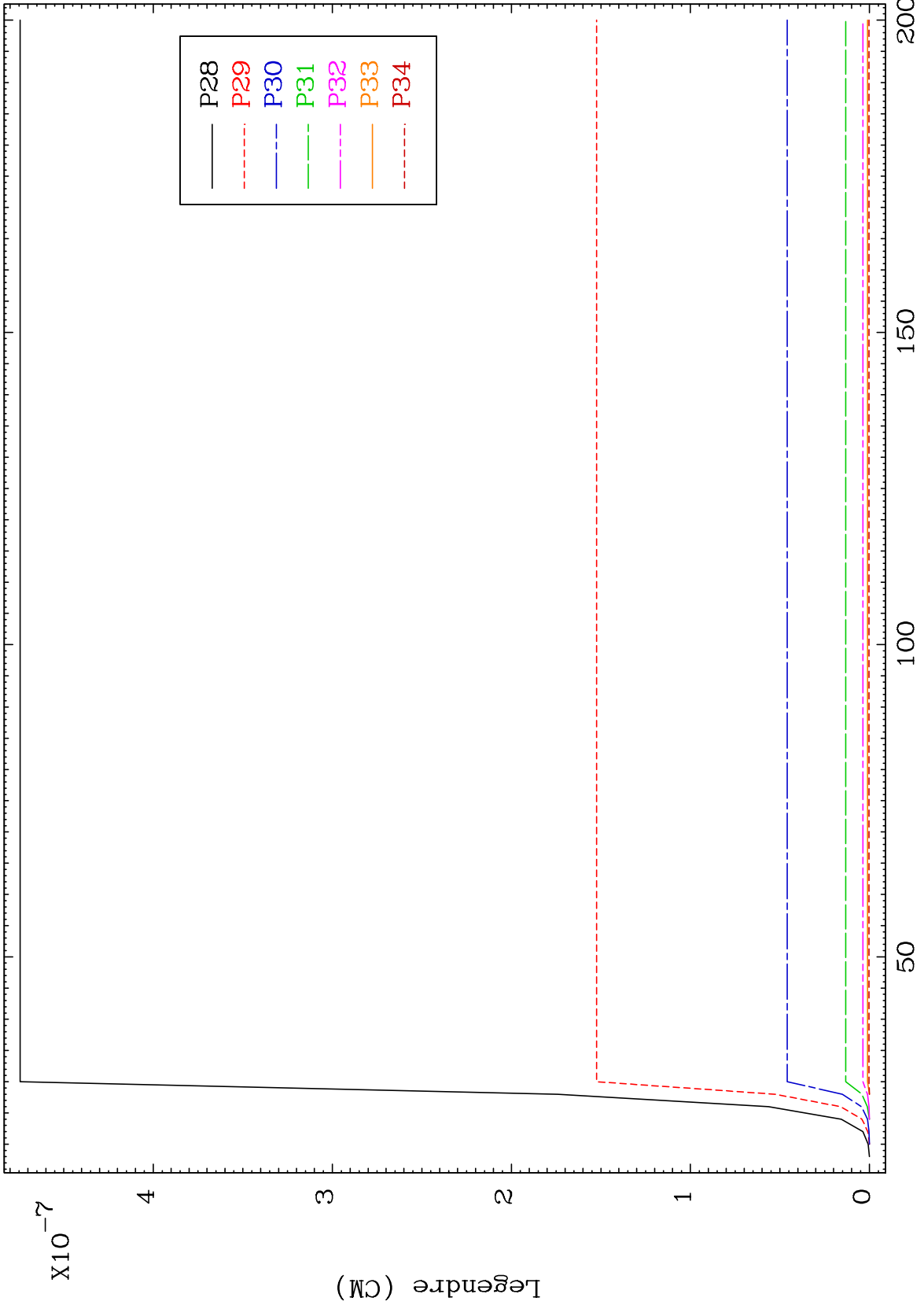
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



51

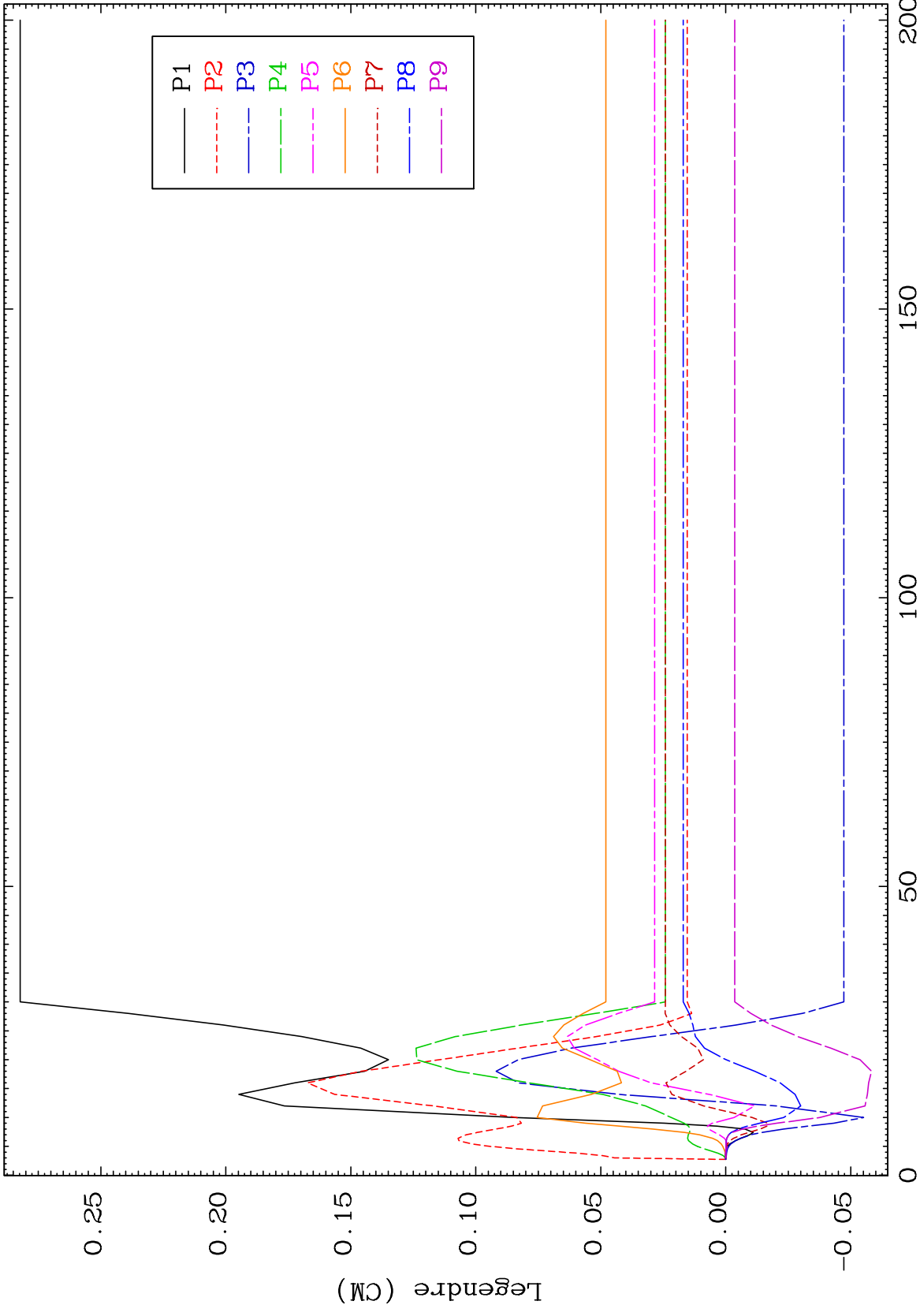
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



52

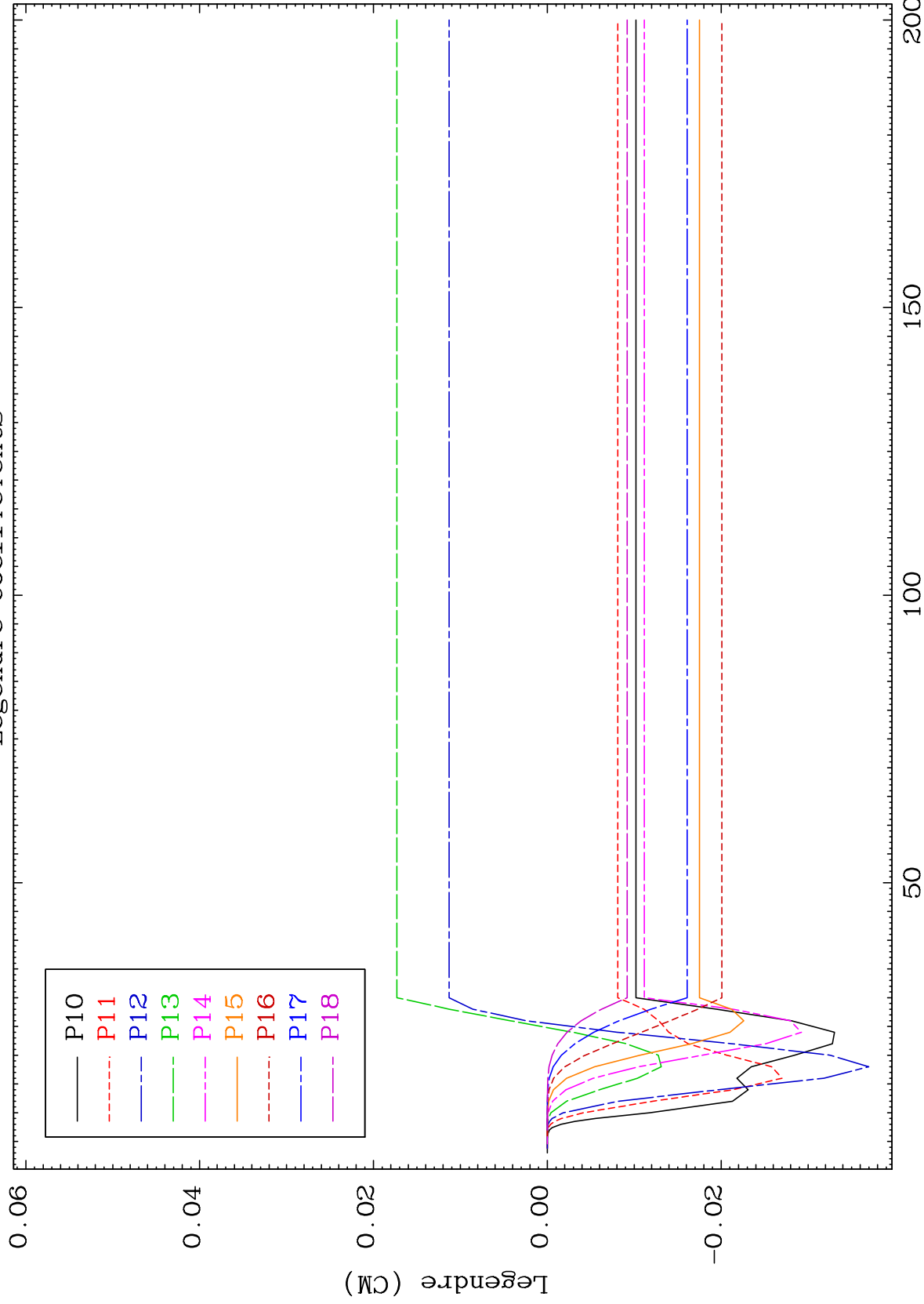
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

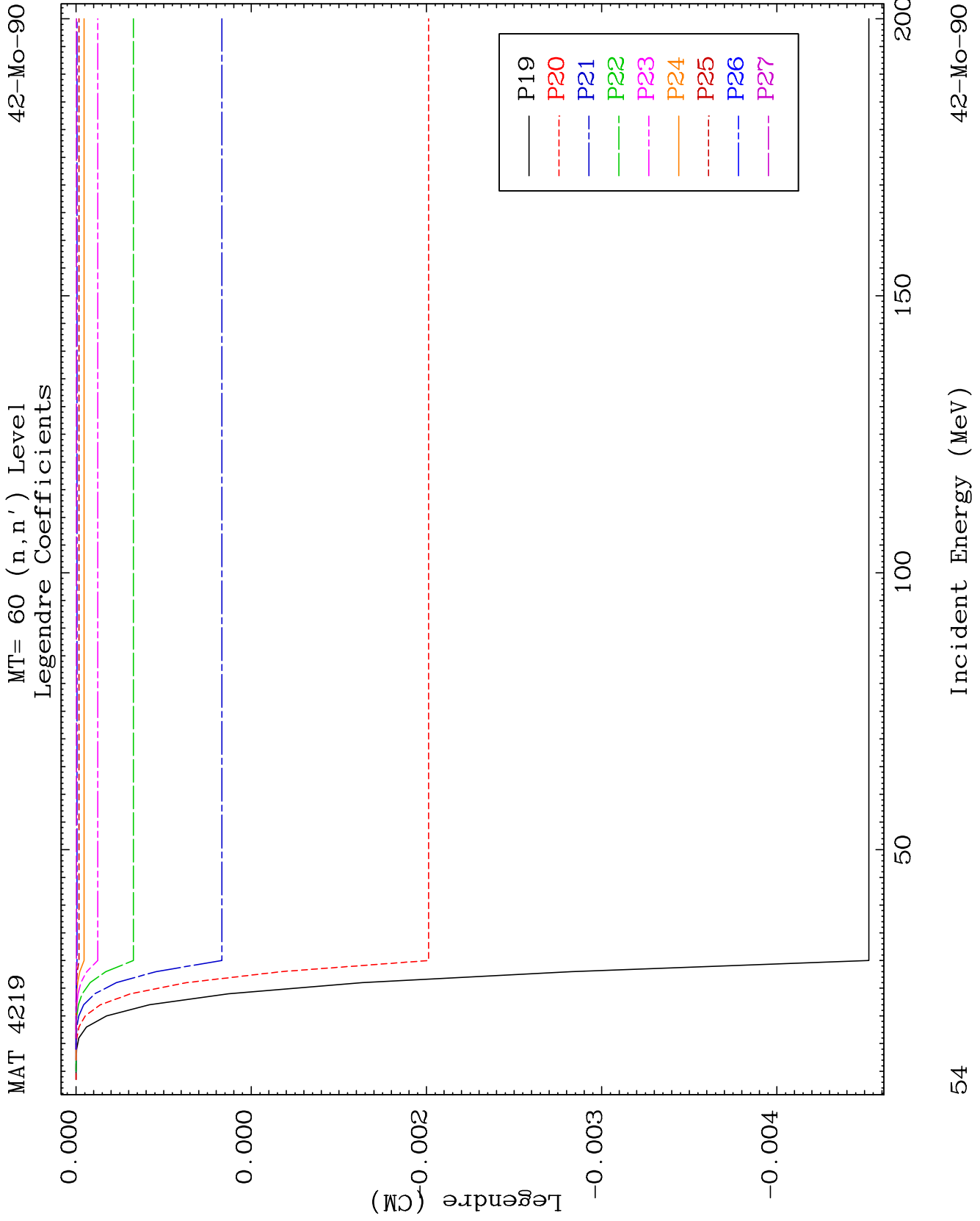
42-Mo-90



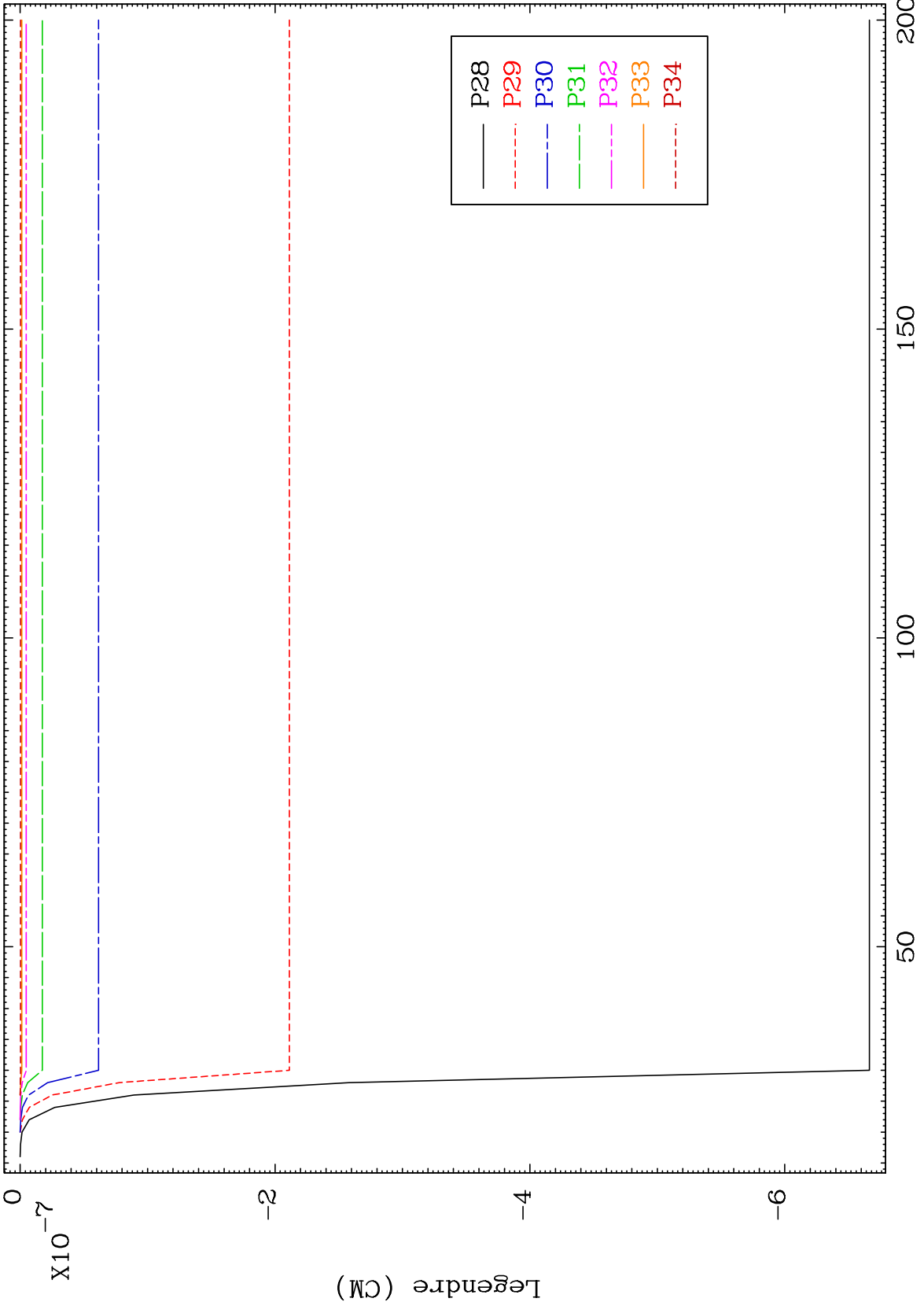
53

Incident Energy (MeV)

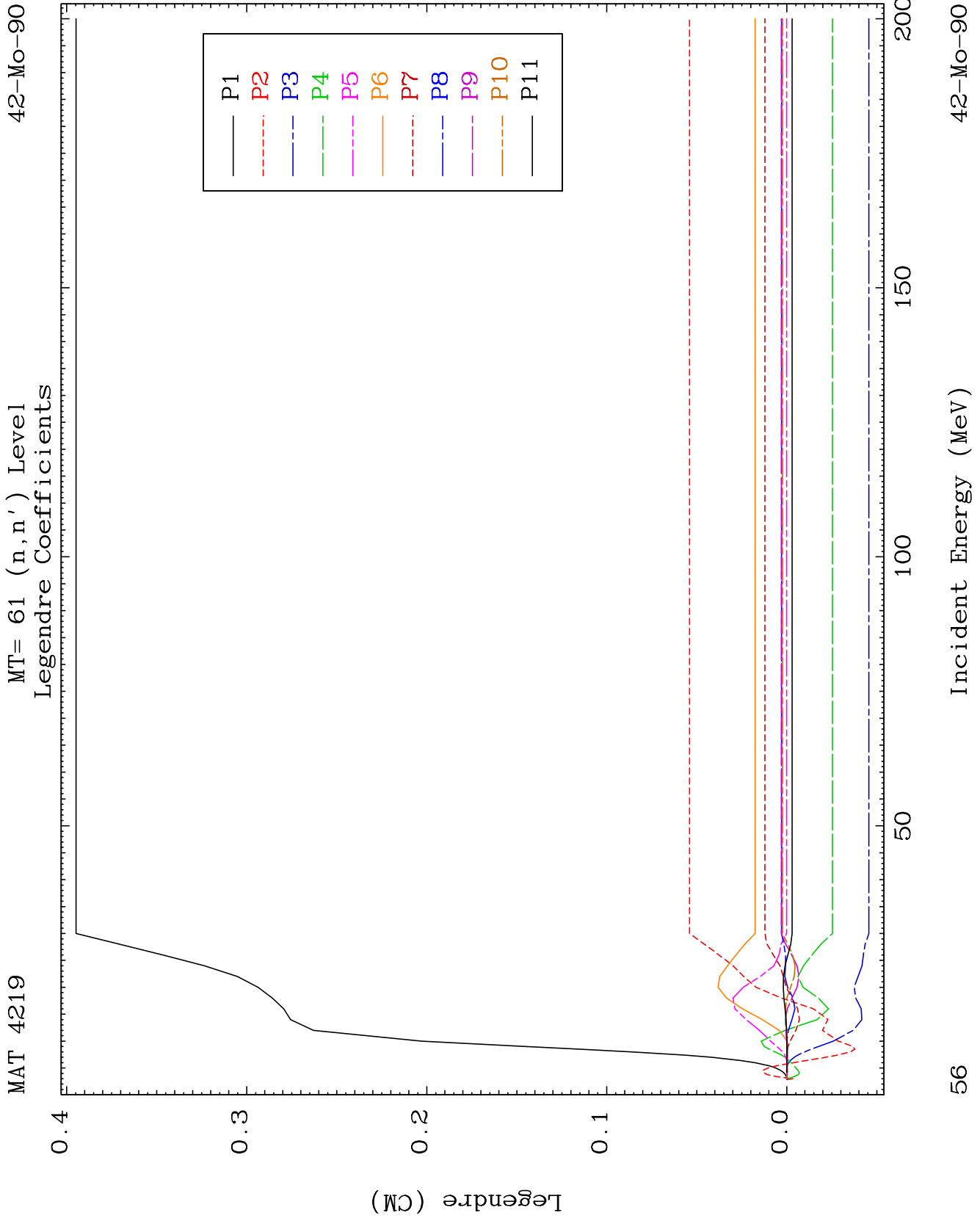
42-Mo-90



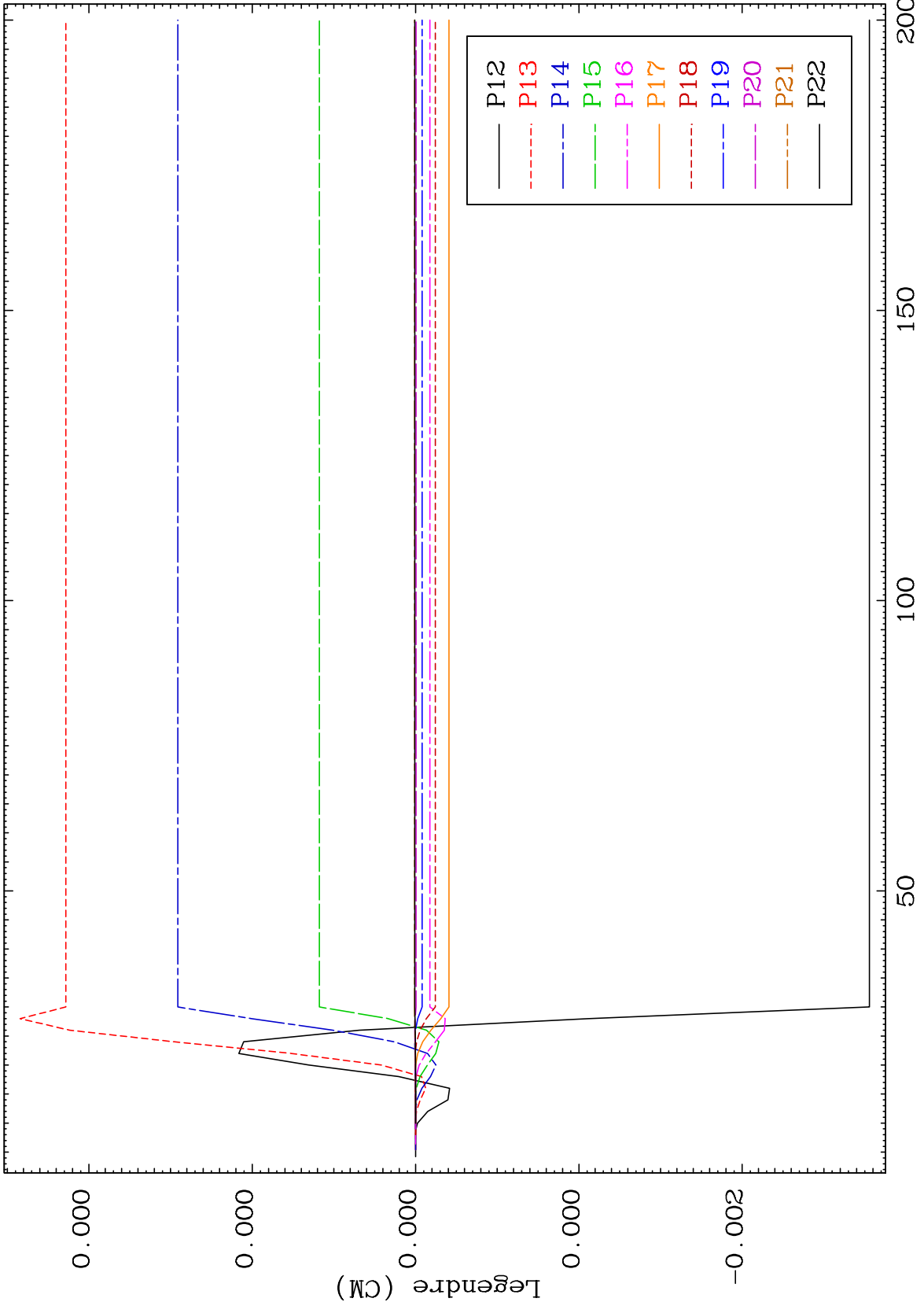
MAT 4219 MT= 60 (n,n') Level Legendre Coefficients 42-Mo-90



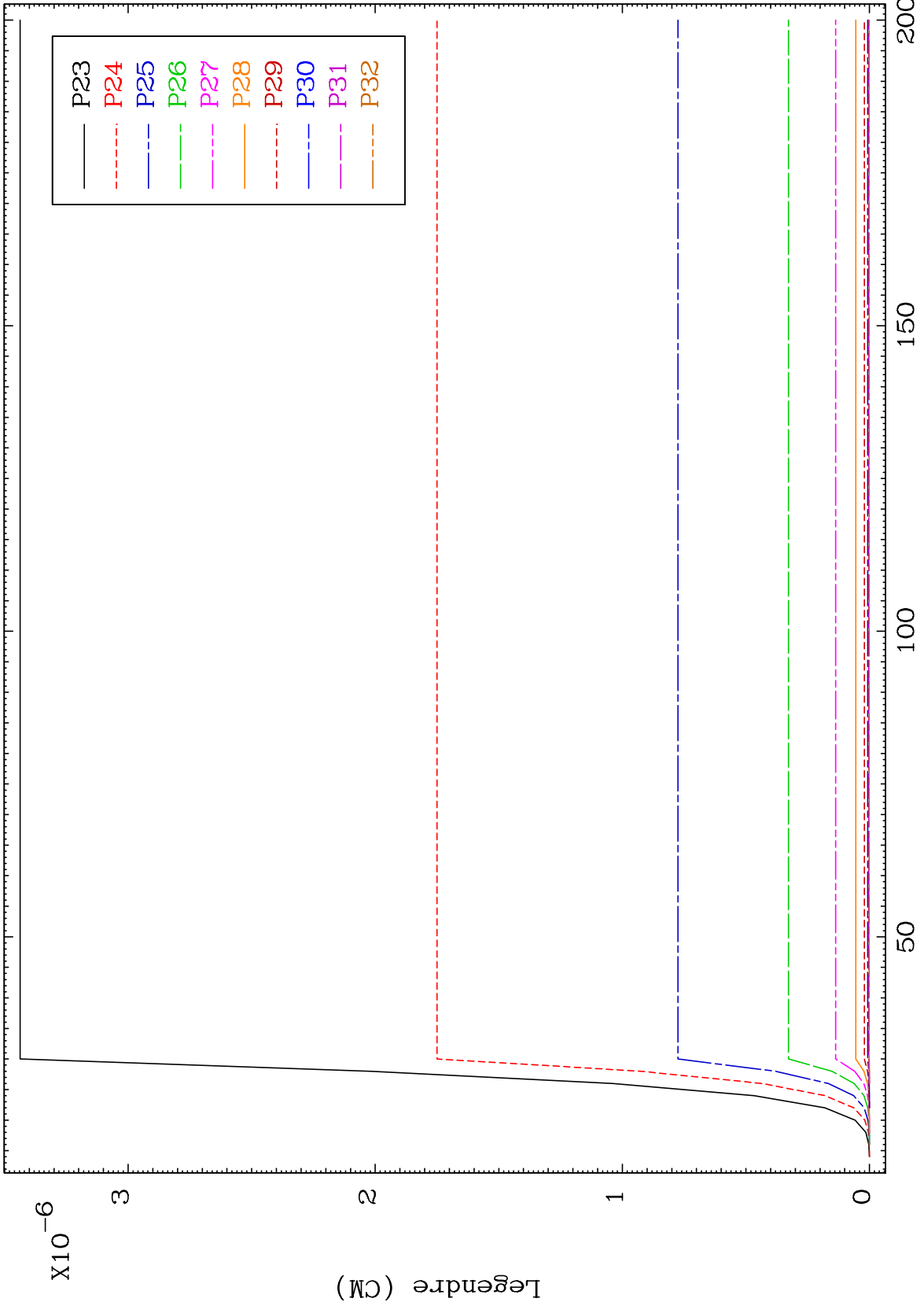
55 Incident Energy (MeV) 42-Mo-90



MAT 4219 MT= 61 (n,n') Level Legendre Coefficients 42-Mo-90



MAT 4219 MT= 61 (n,n') Level Legendre Coefficients 42-Mo-90

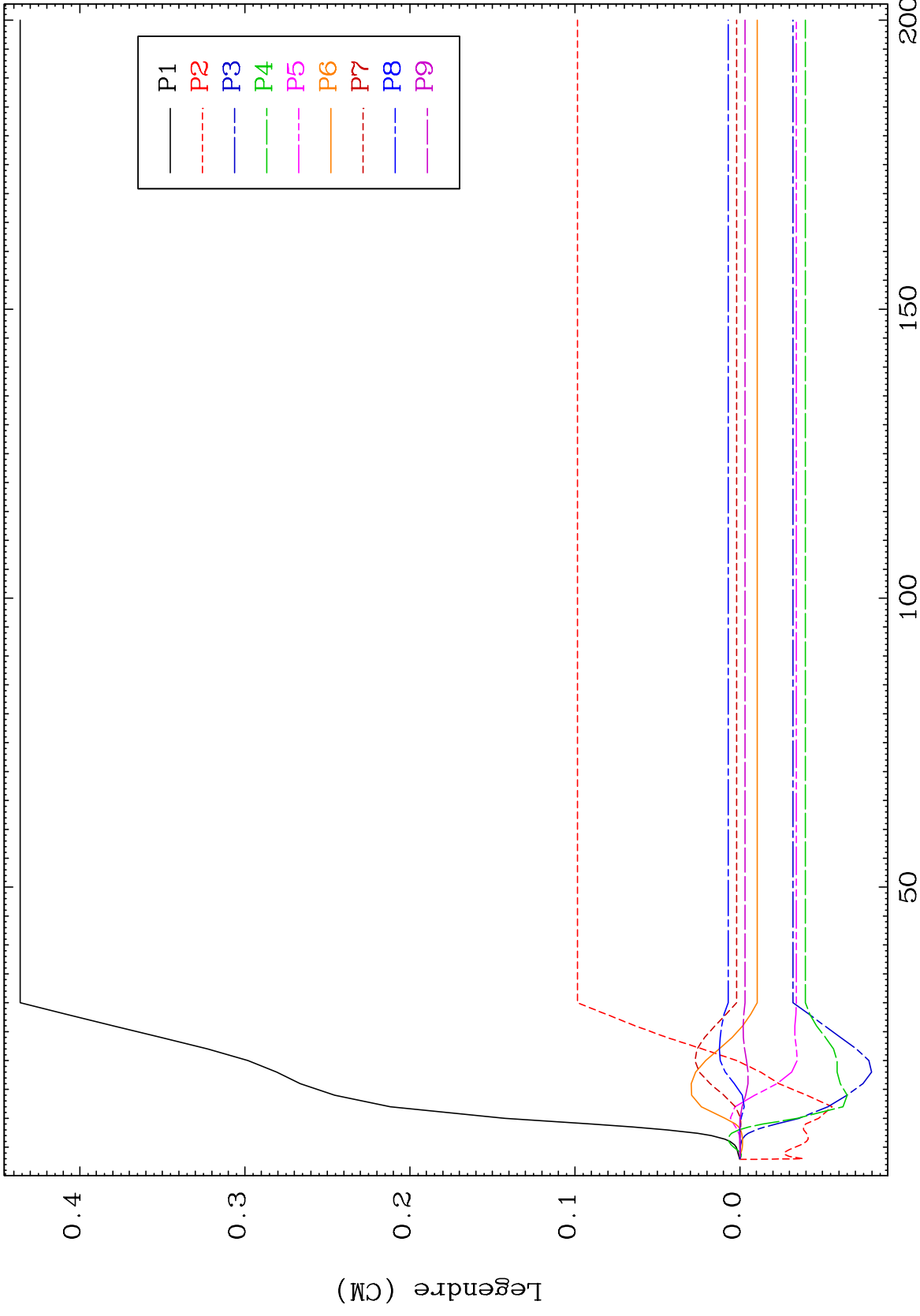


58 Incident Energy (MeV) 42-Mo-90

MAT 4219

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

42-Mo-90



59

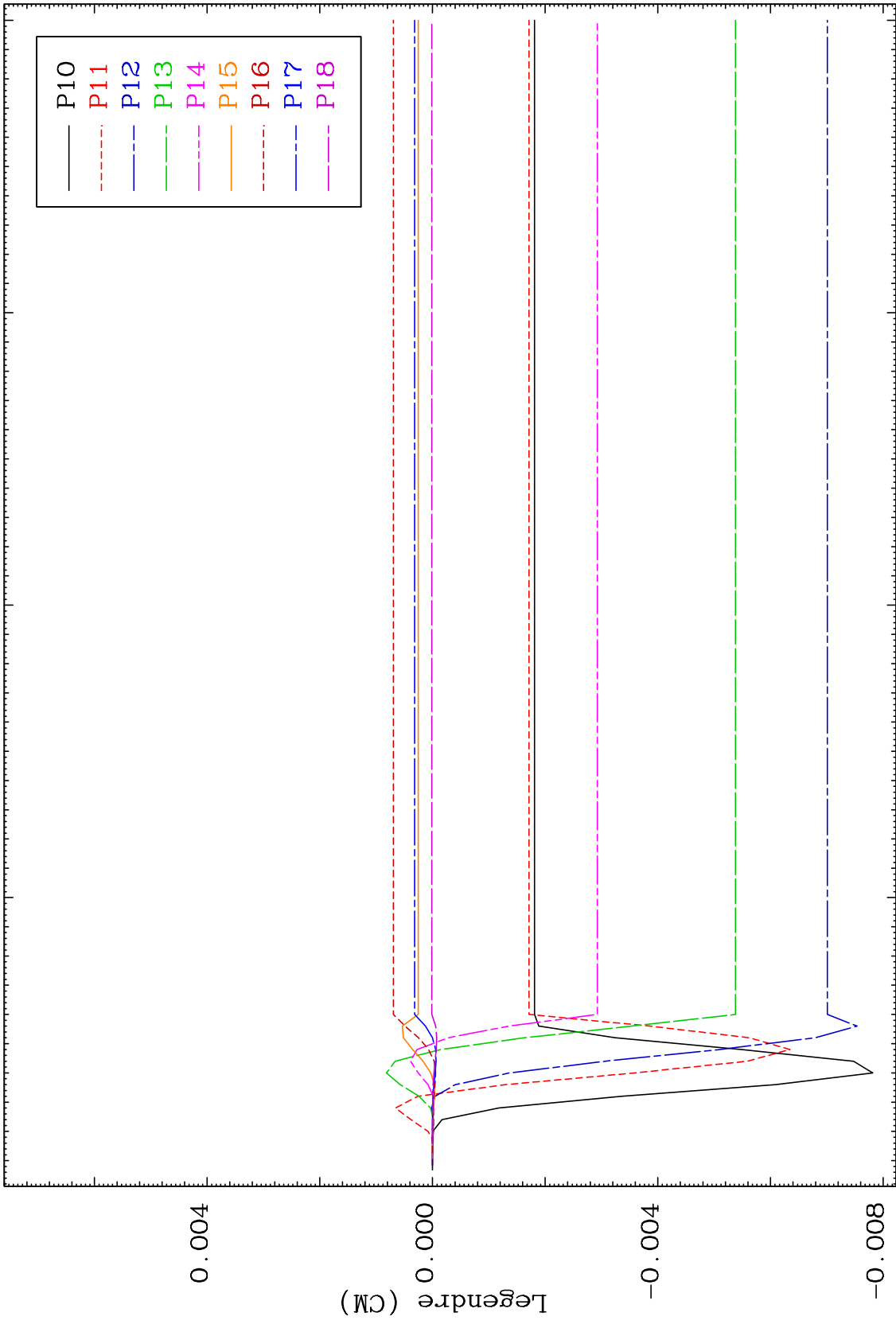
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



60

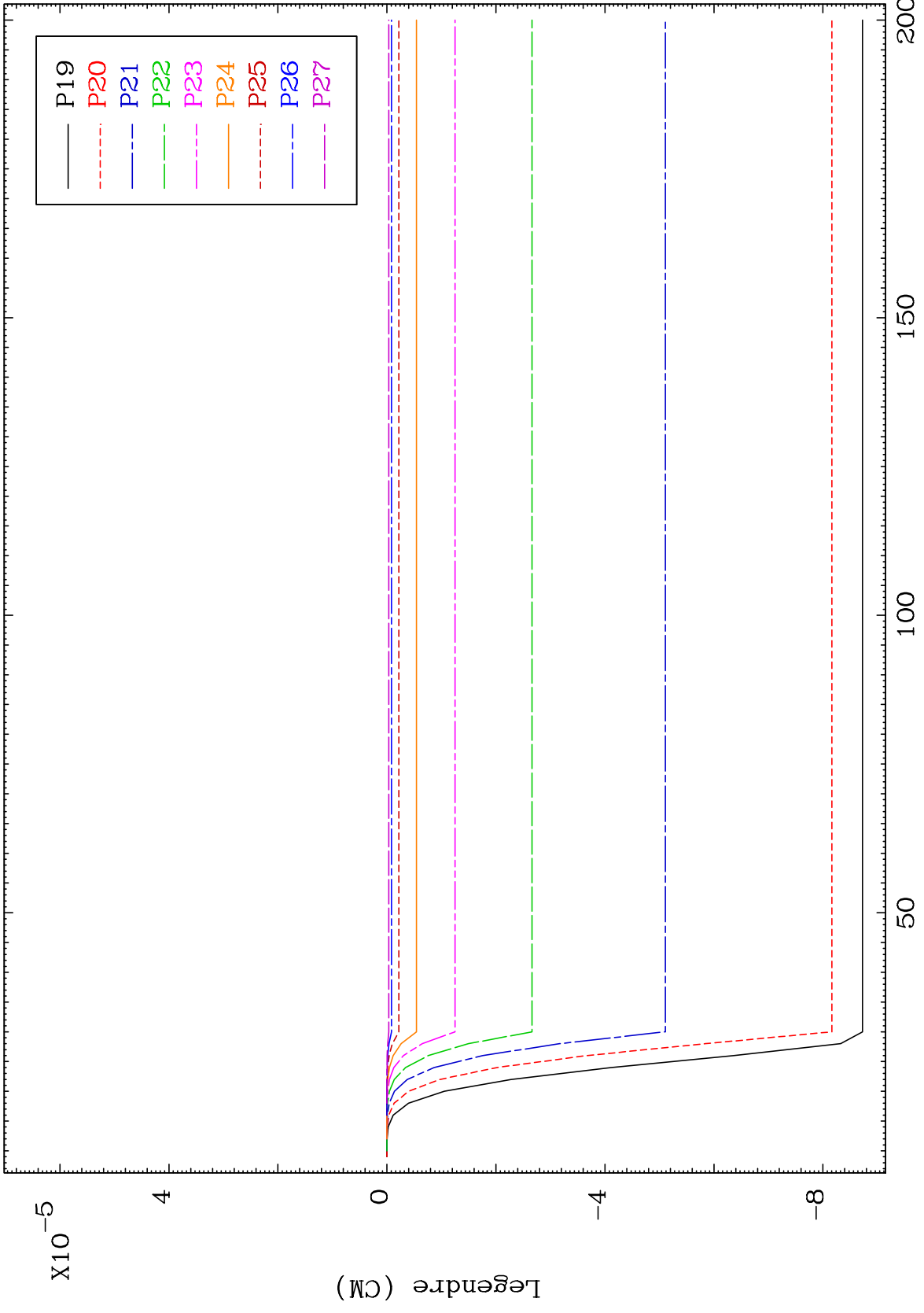
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

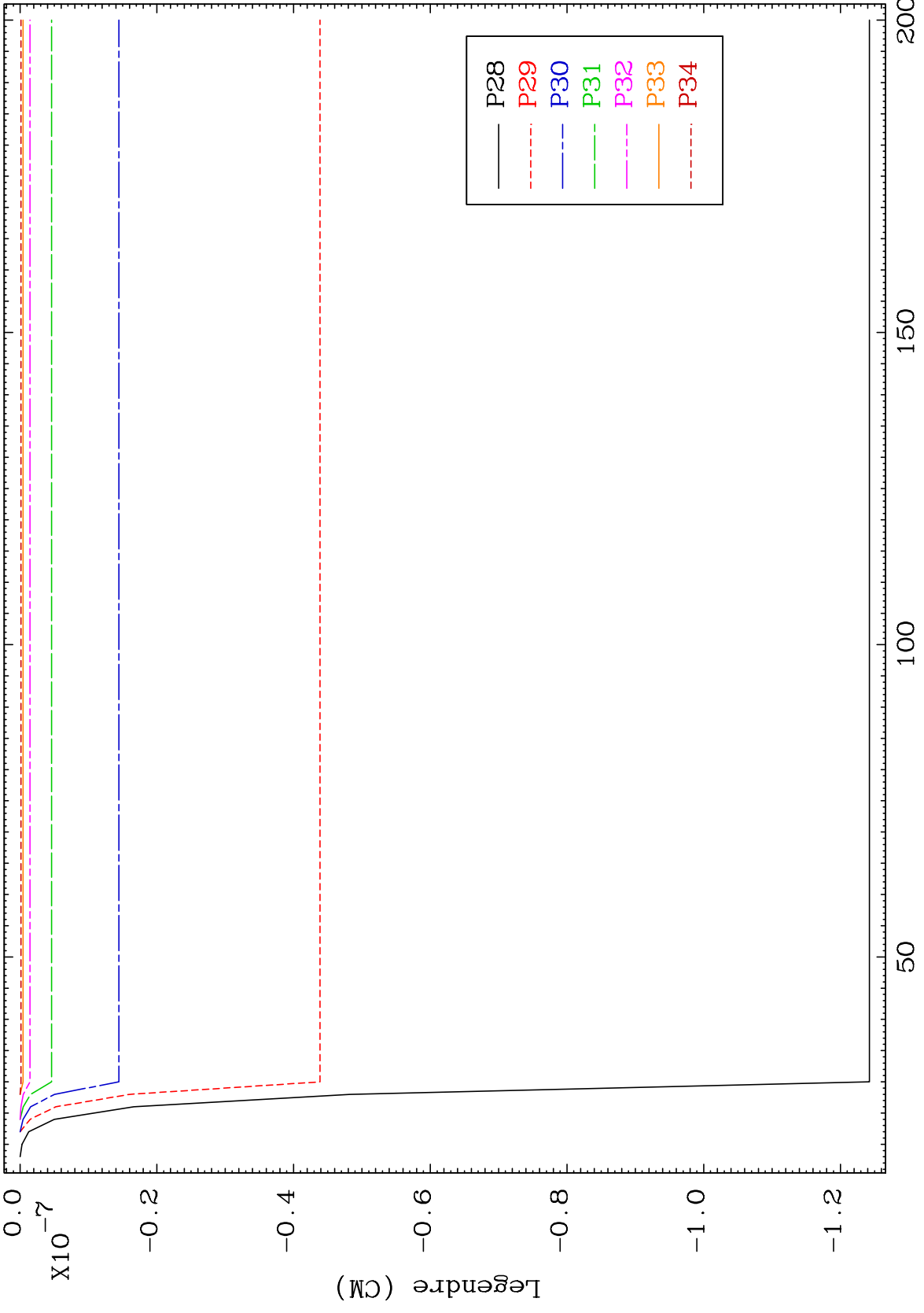


61

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 62 (n,n') Level Legendre Coefficients 42-Mo-90

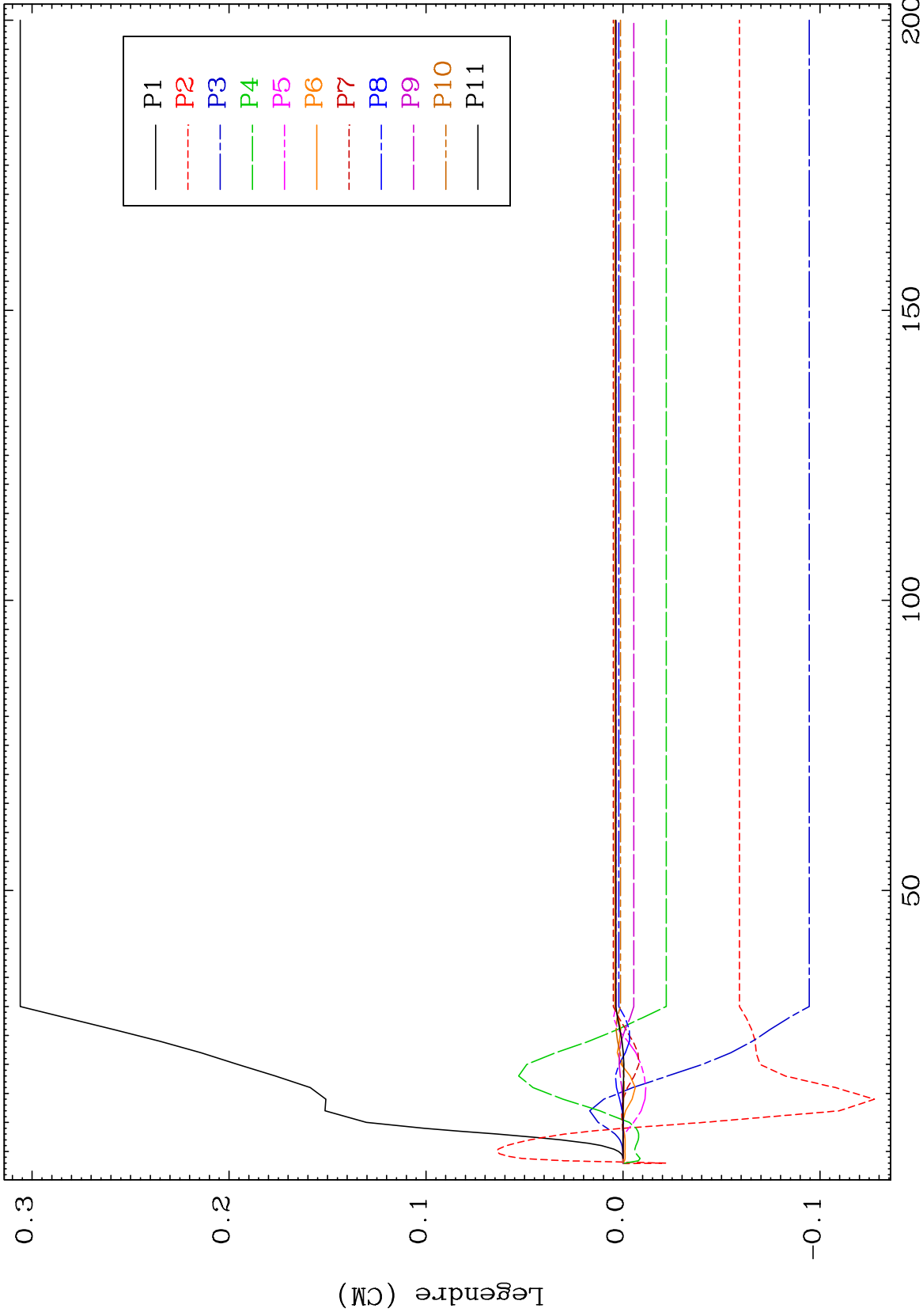


62 42-Mo-90

MAT 4219

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

42-Mo-90



63

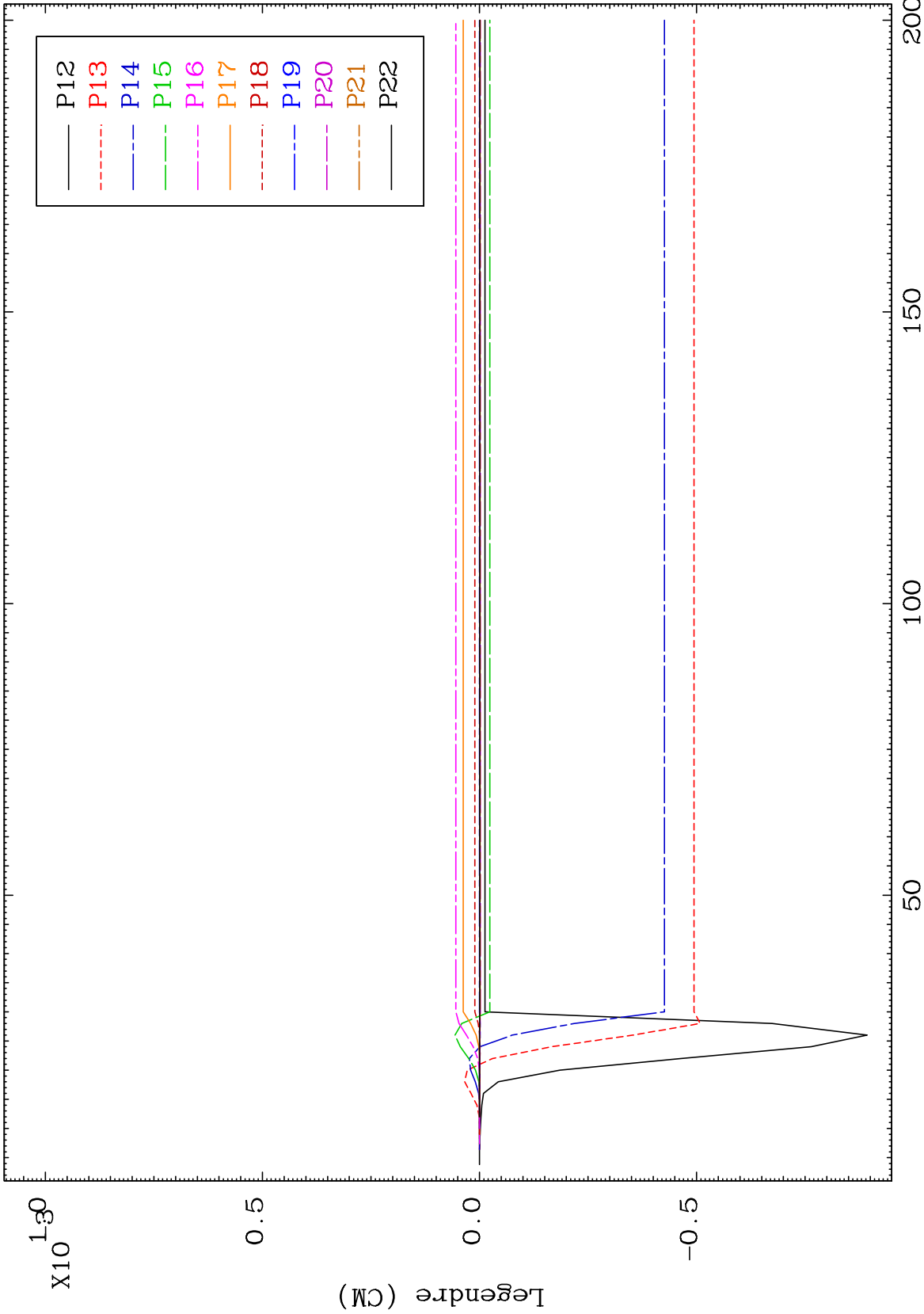
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

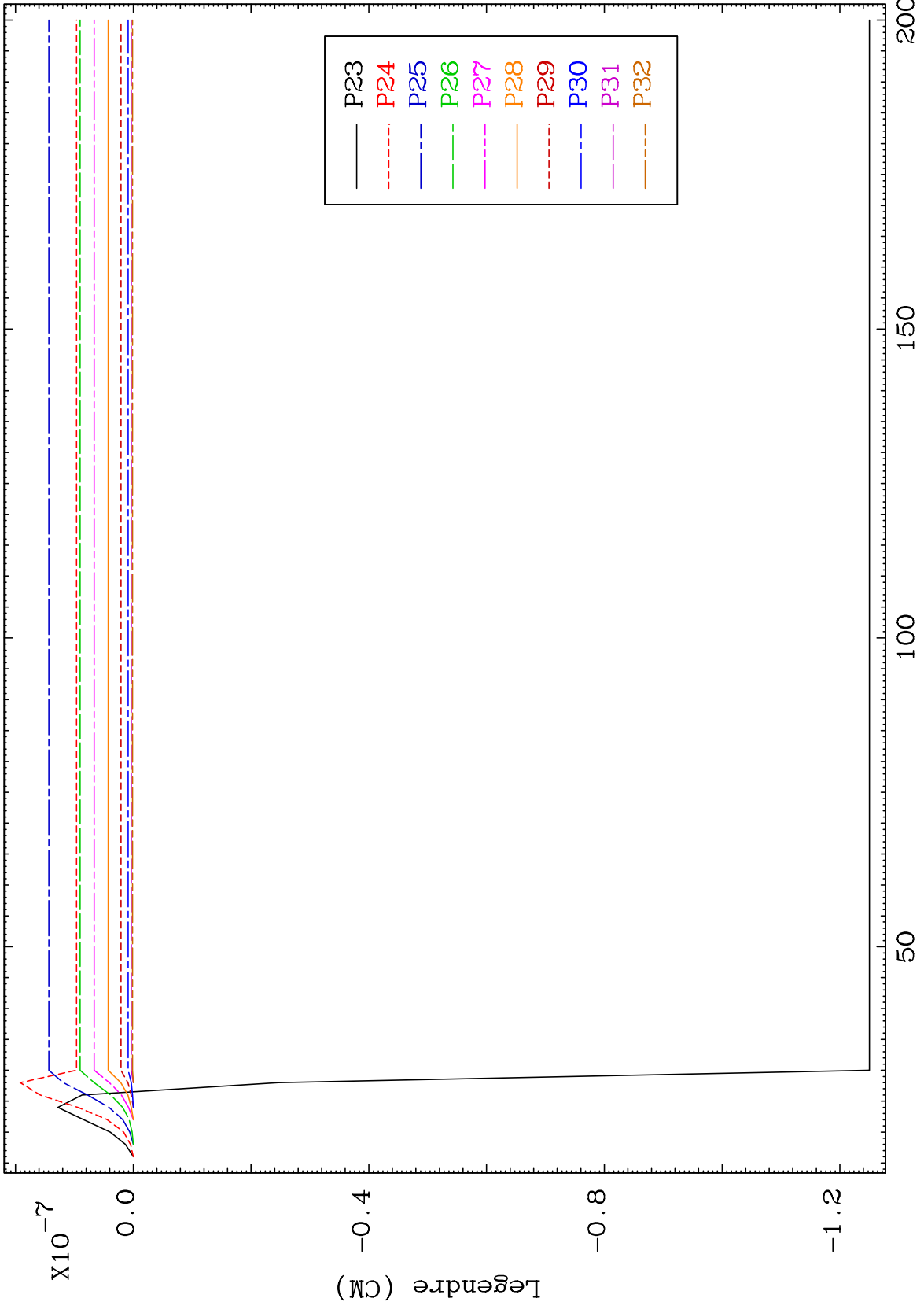


64

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 63 (n,n') Level Legendre Coefficients 42-Mo-90

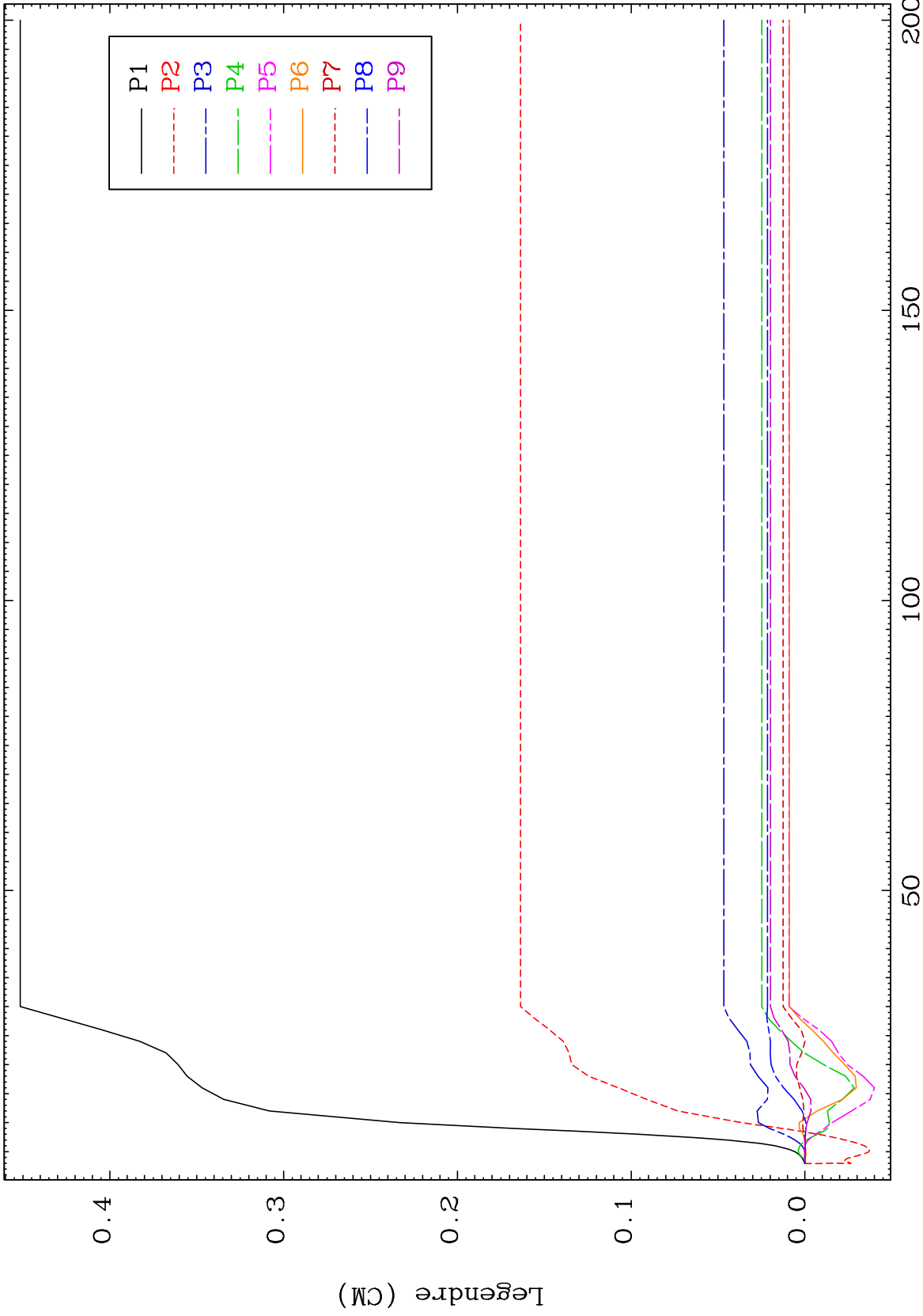


65 42-Mo-90

MAT 4219

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

42-Mo-90



66

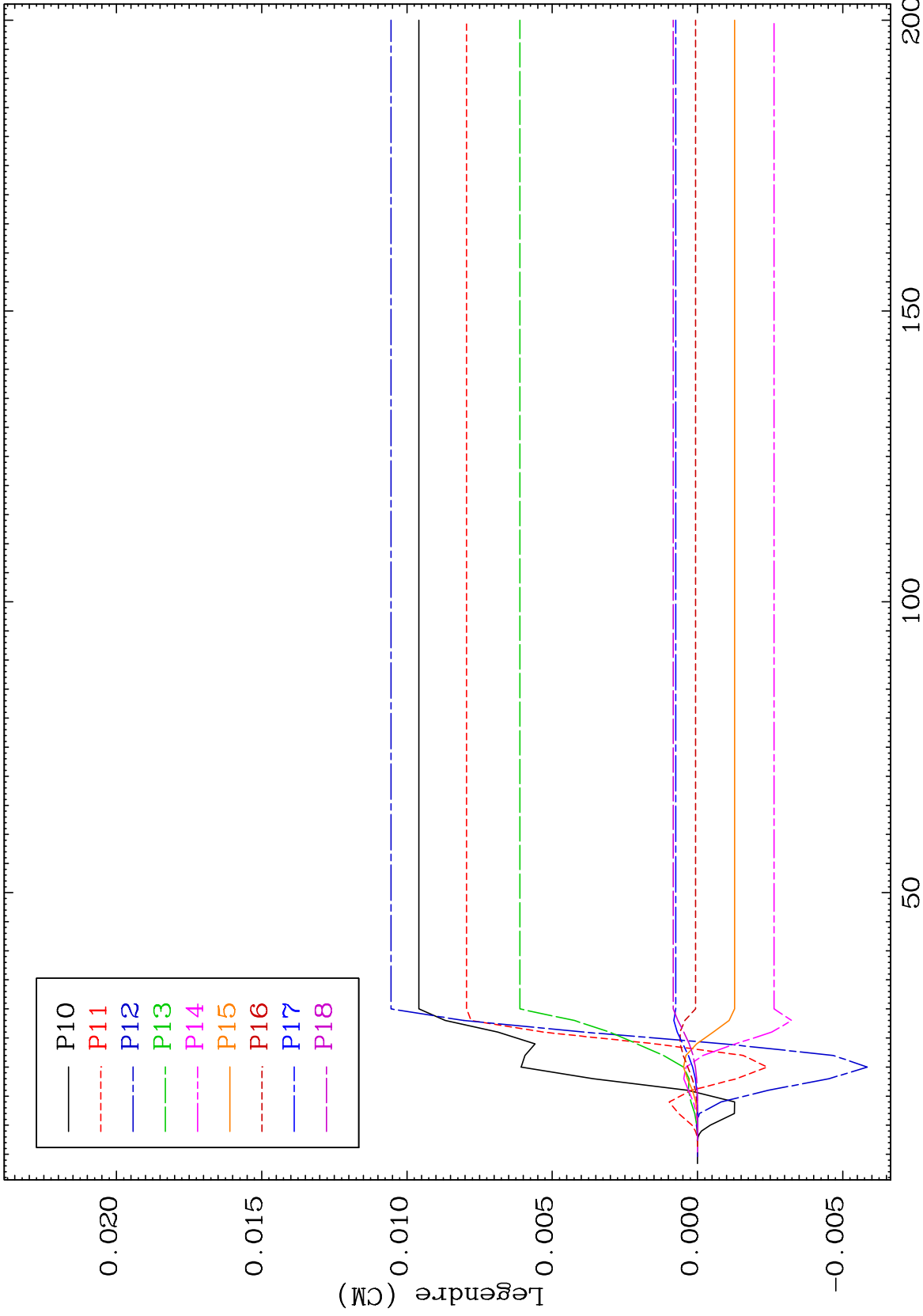
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

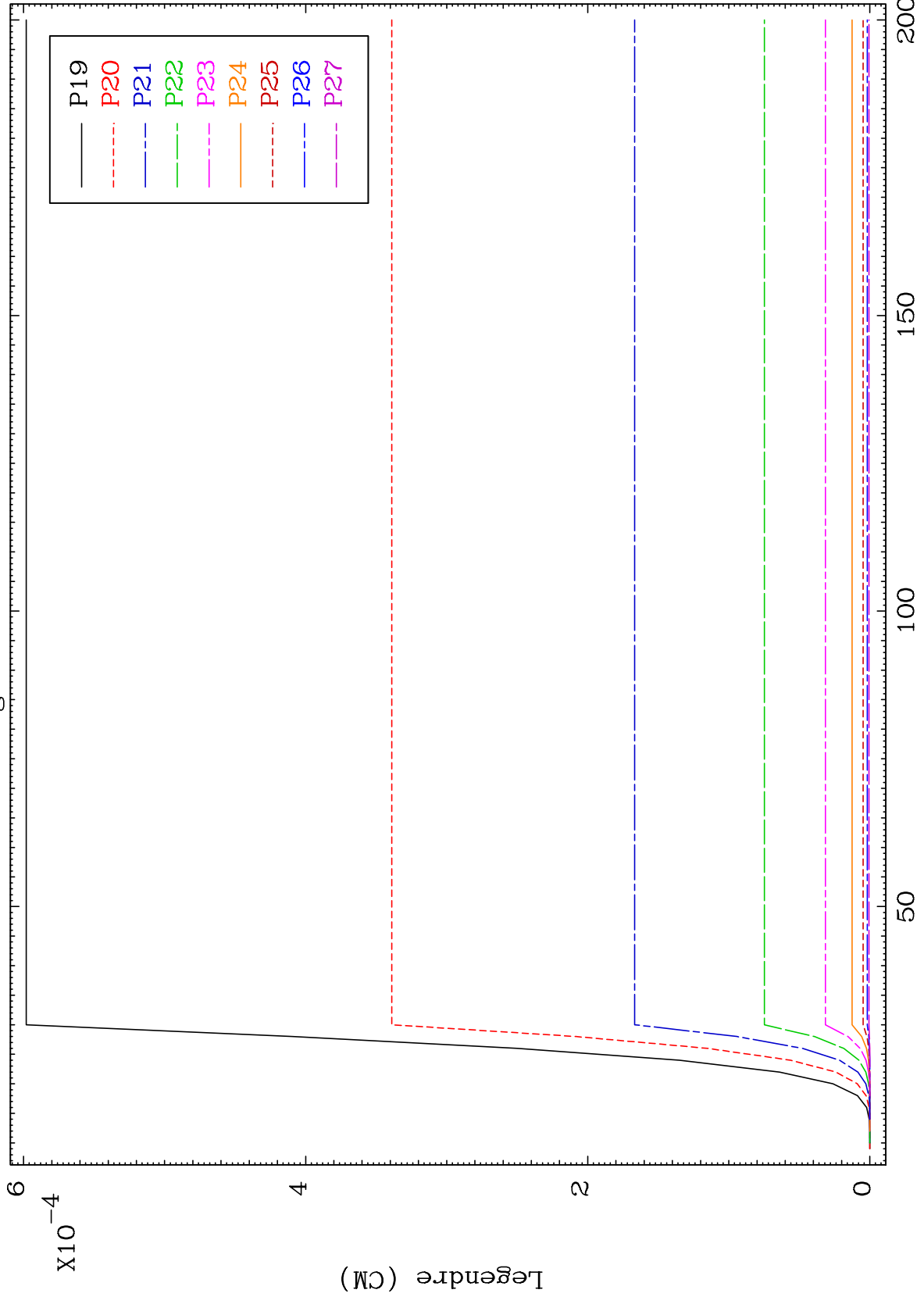


67

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 64 (n,n') Level Legendre Coefficients 42-Mo-90

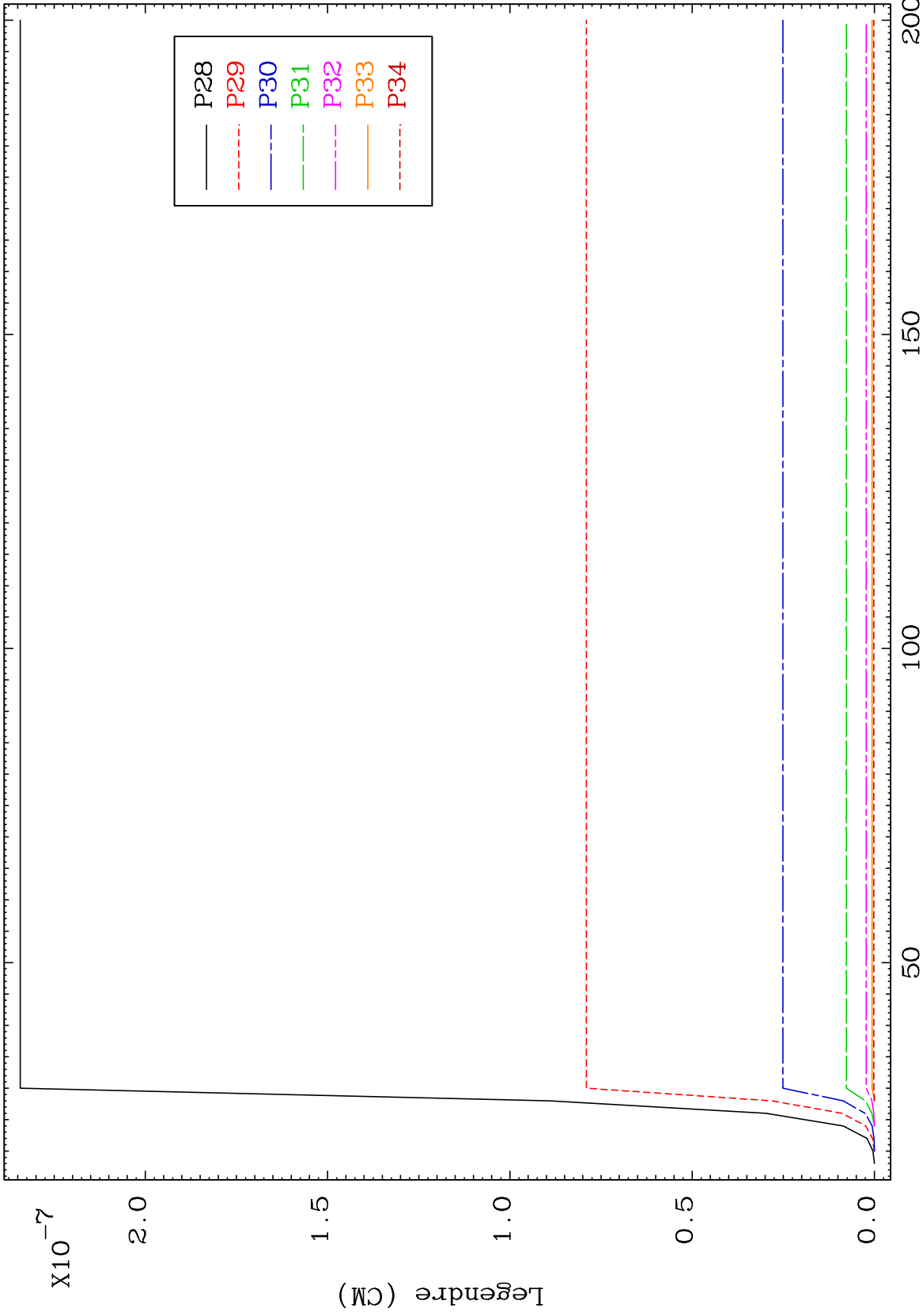


68 42-Mo-90

MAT 4219

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

42-Mo-90



69

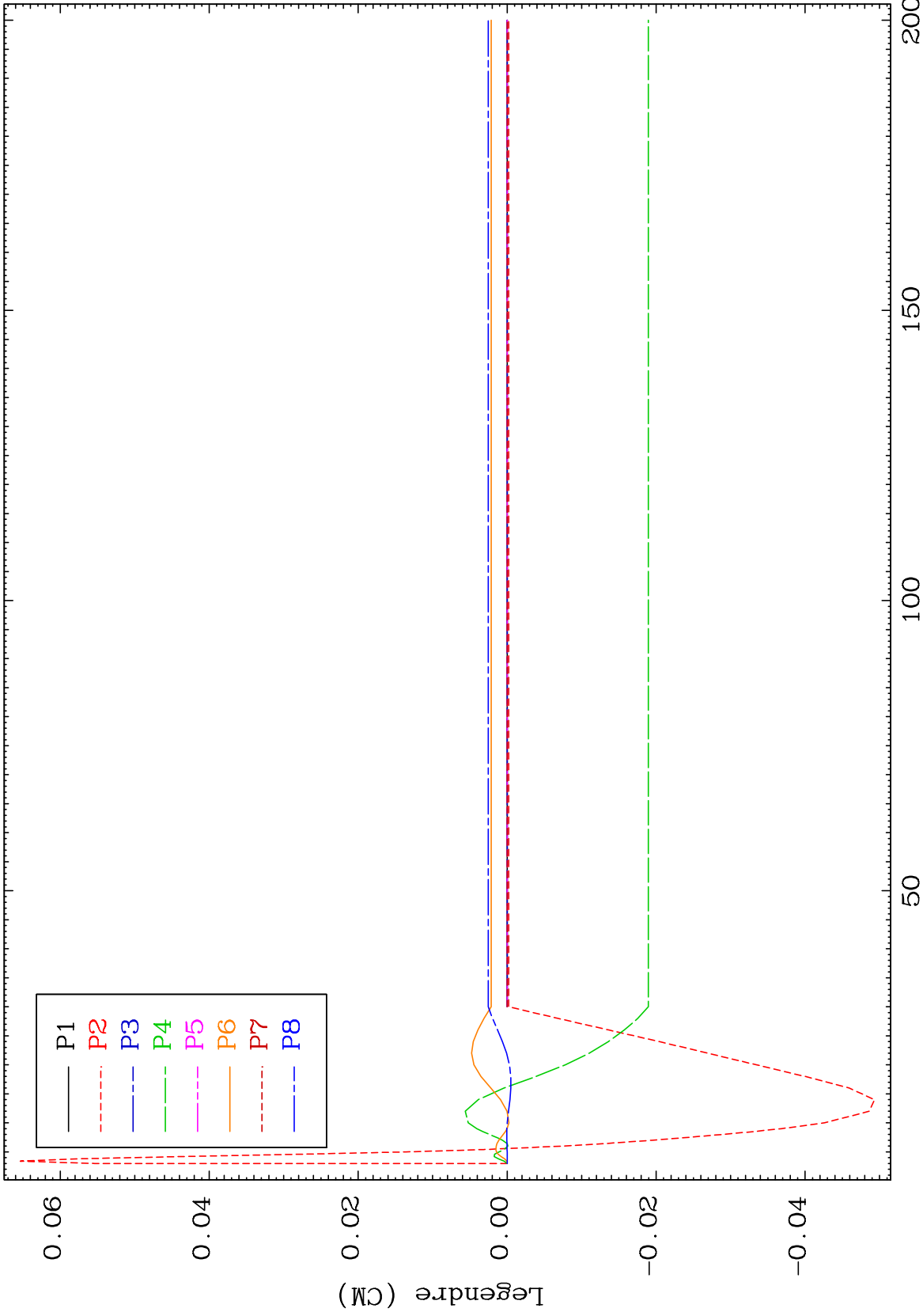
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



70

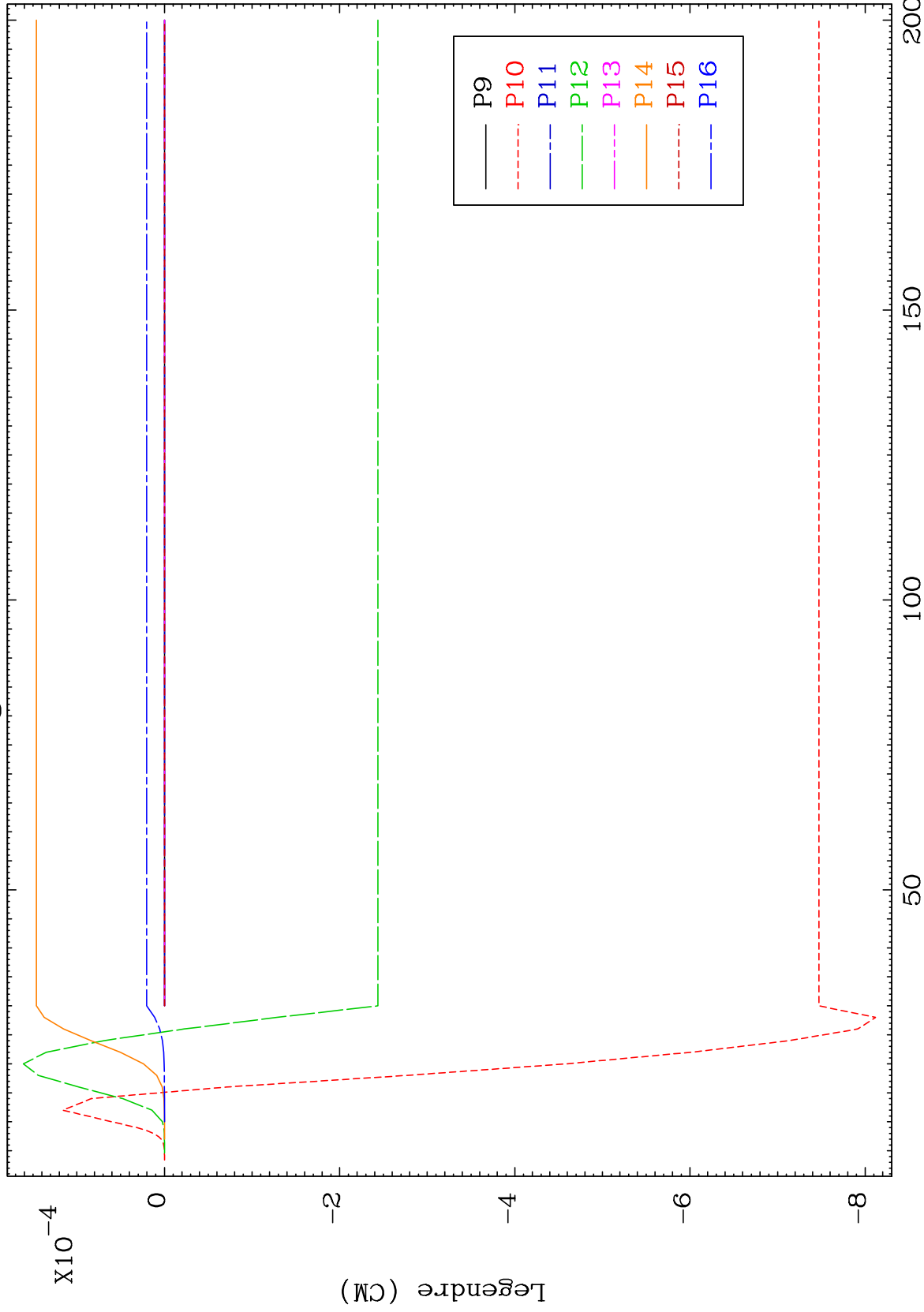
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

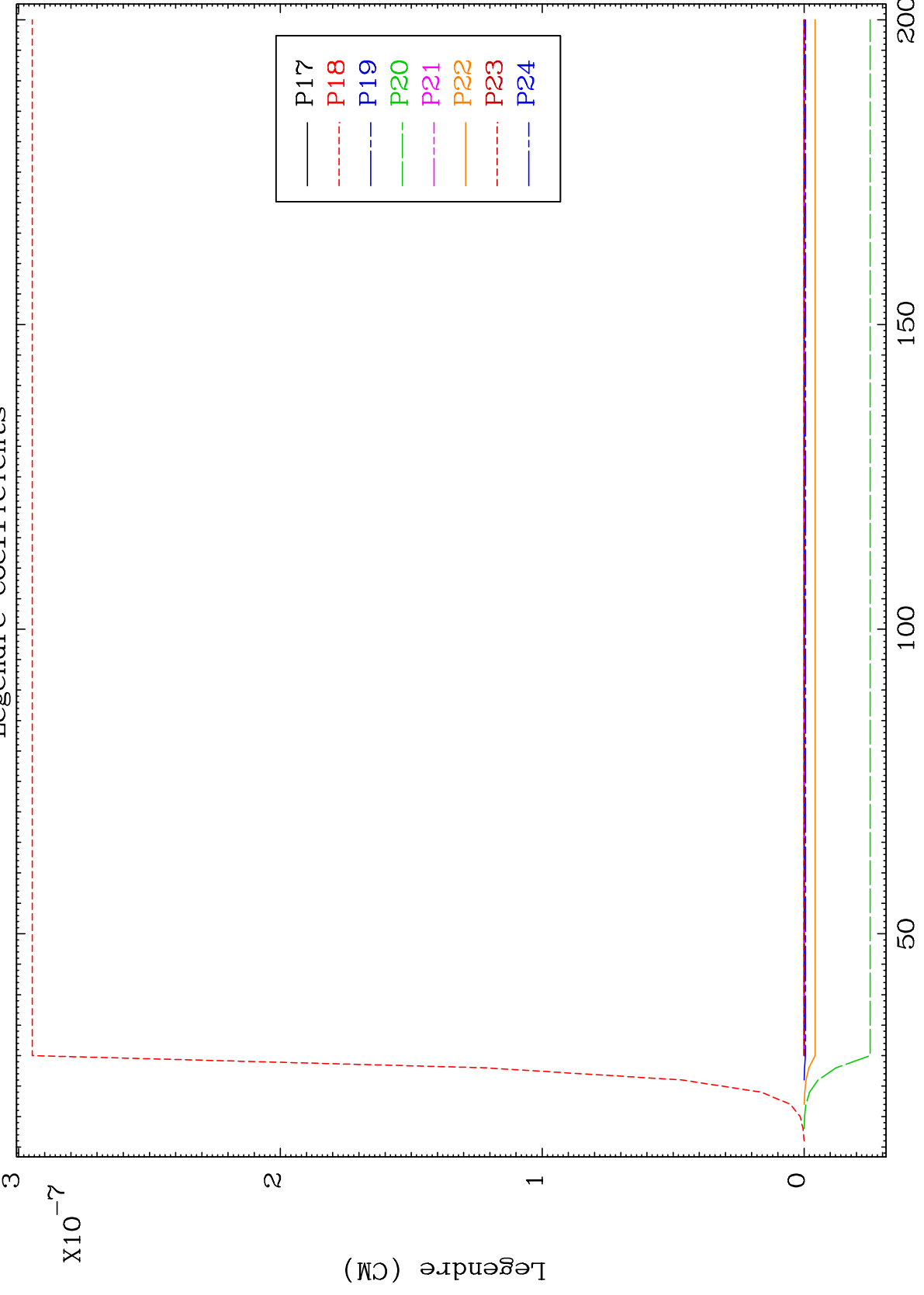


71

Incident Energy (MeV)

42-Mo-90

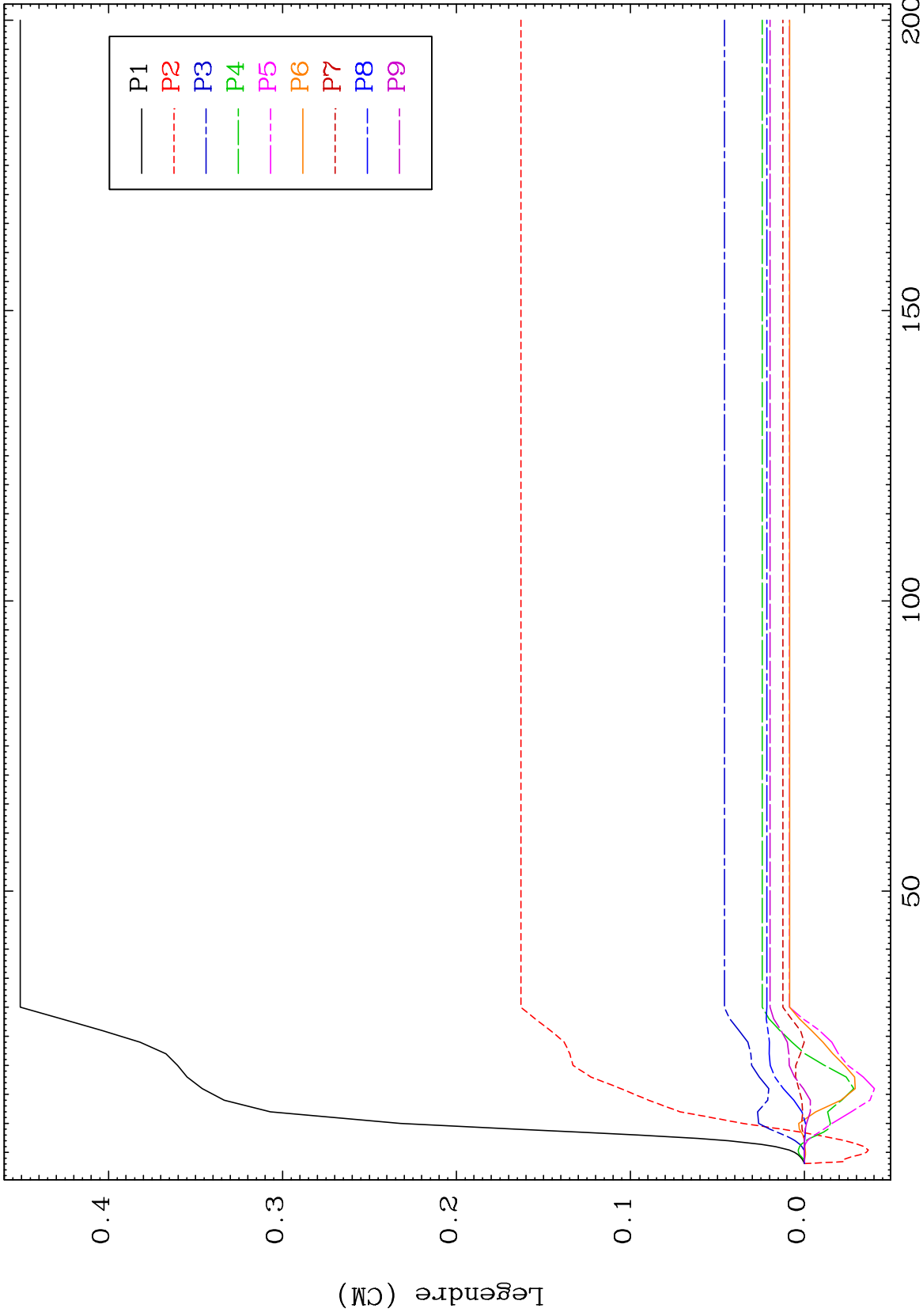
MAT 4219 MT= 65 (n,n') Level Legendre Coefficients 42-Mo-90



MAT 4219

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

42-Mo-90



73

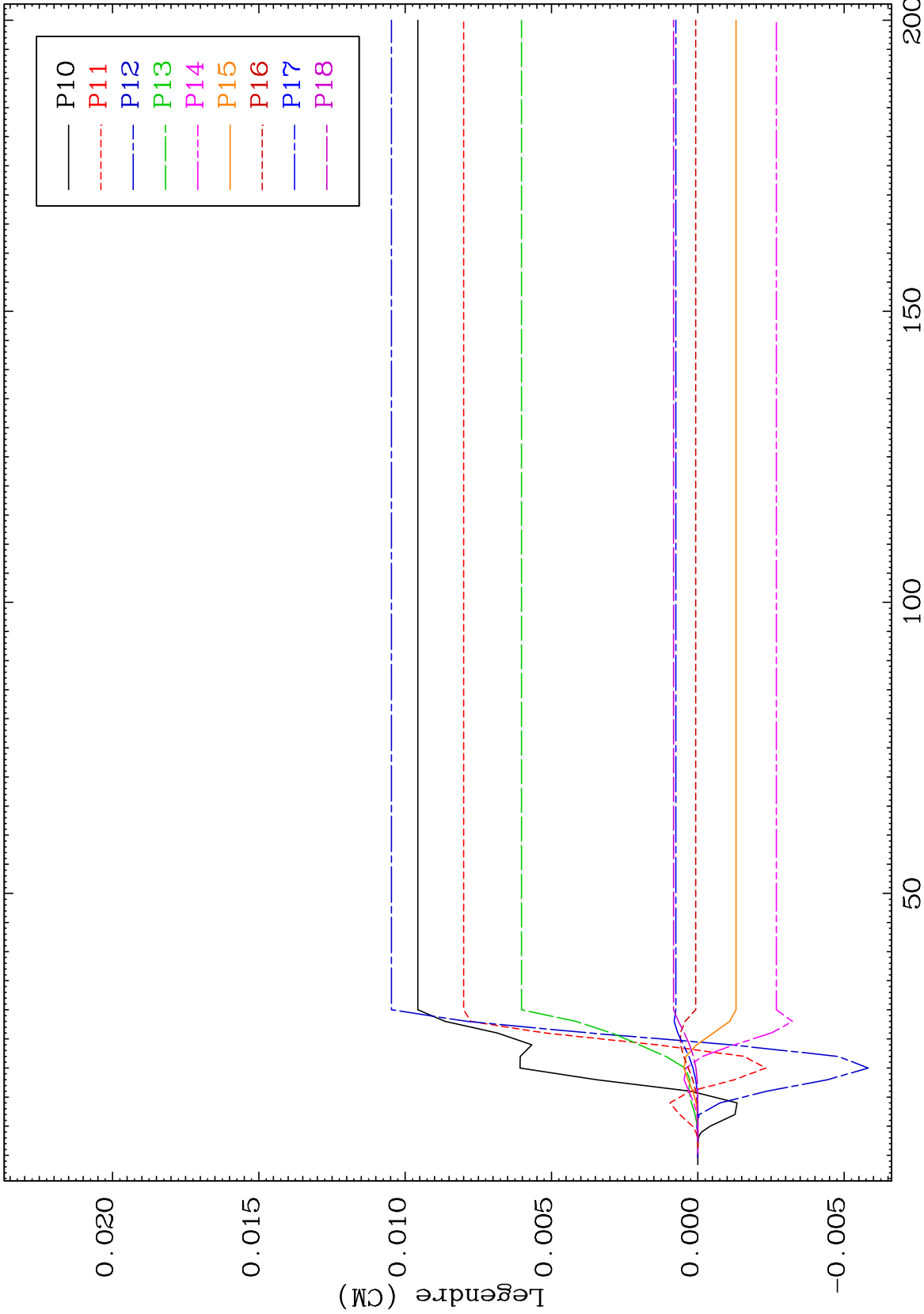
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

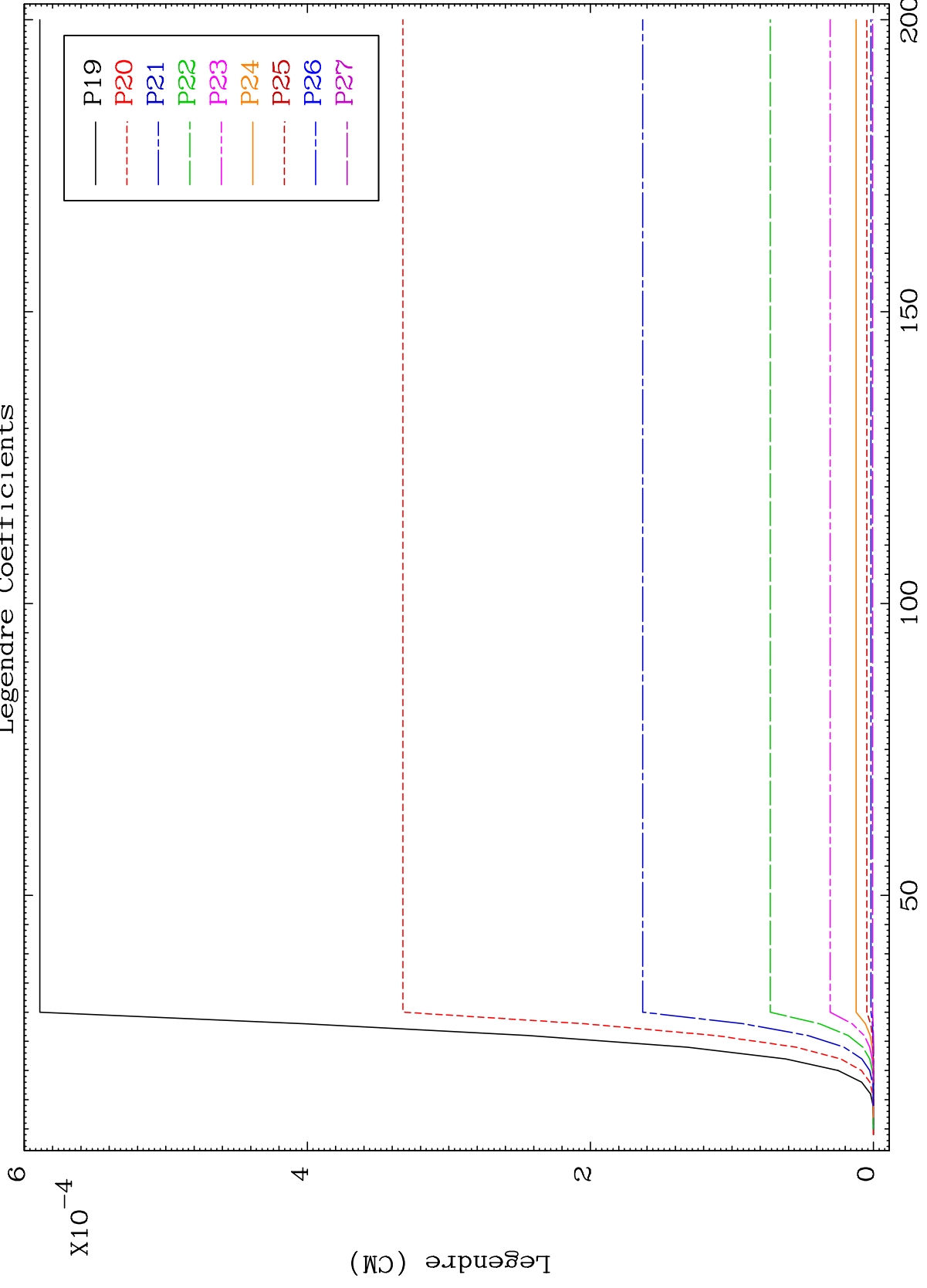
42-Mo-90



74

42-Mo-90

MAT 4219 MT= 66 (n,n') Level Legendre Coefficients 42-Mo-90

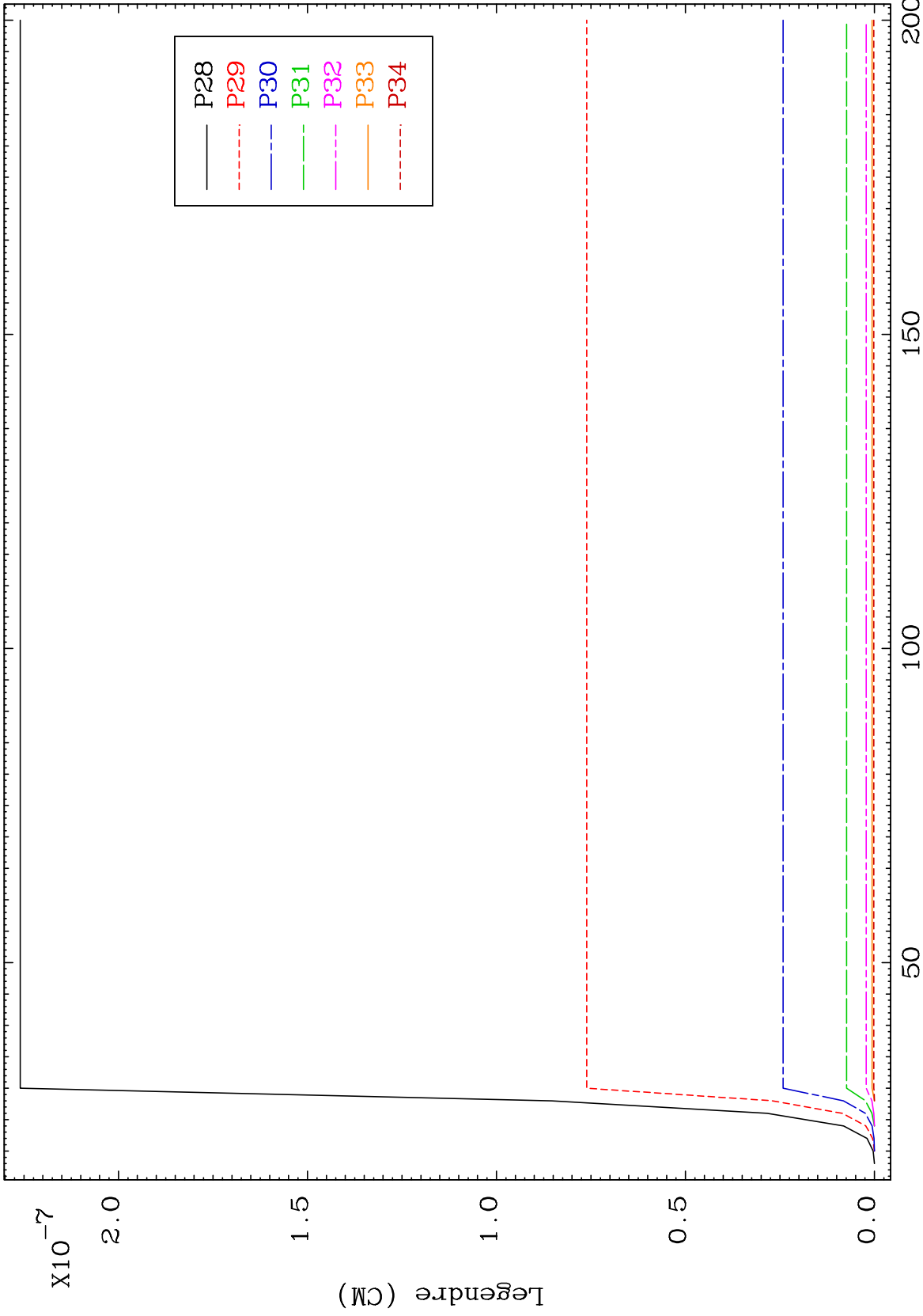


75 Incident Energy (MeV) 42-Mo-90

MAT 4219

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

42-Mo-90



76

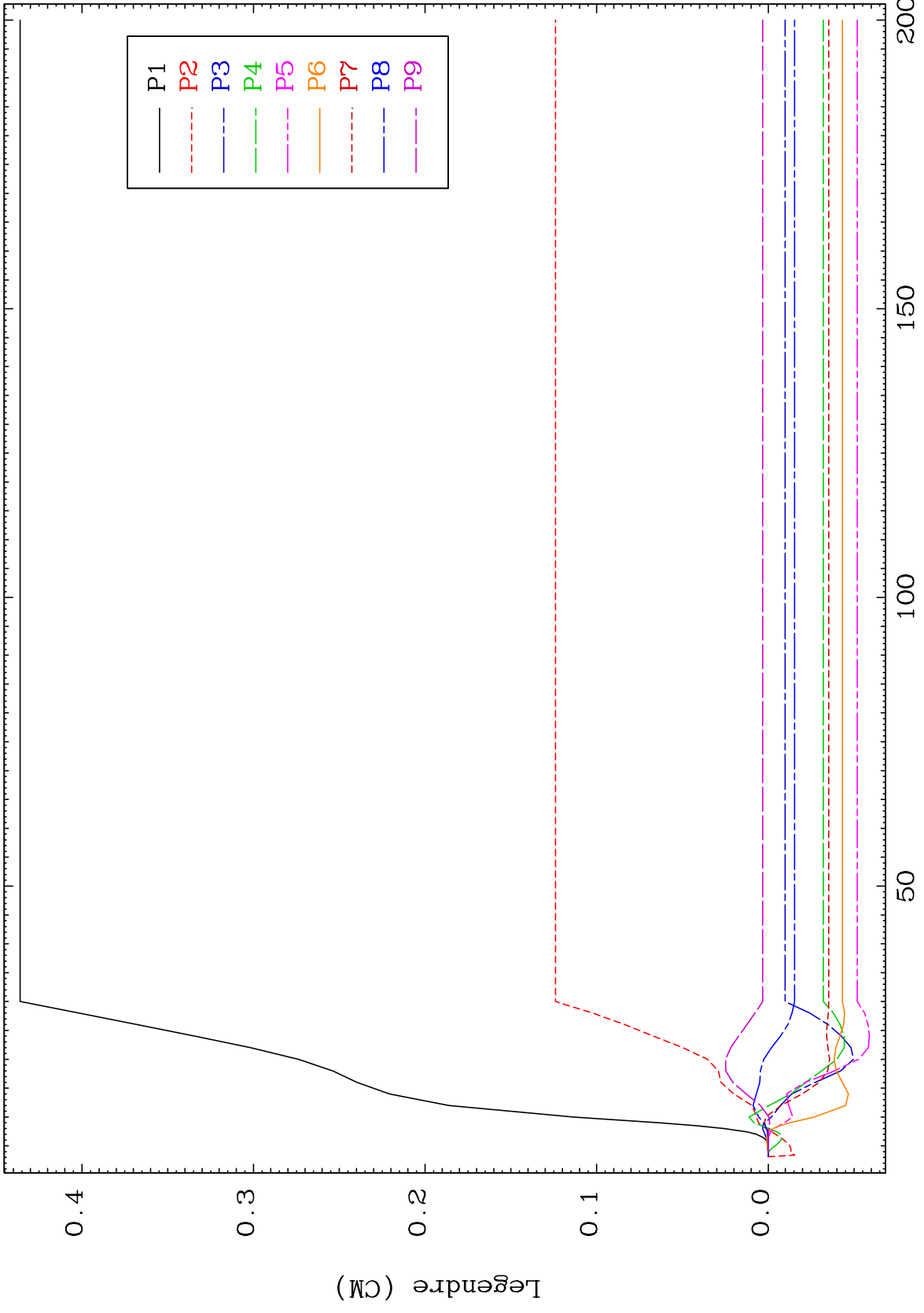
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



77

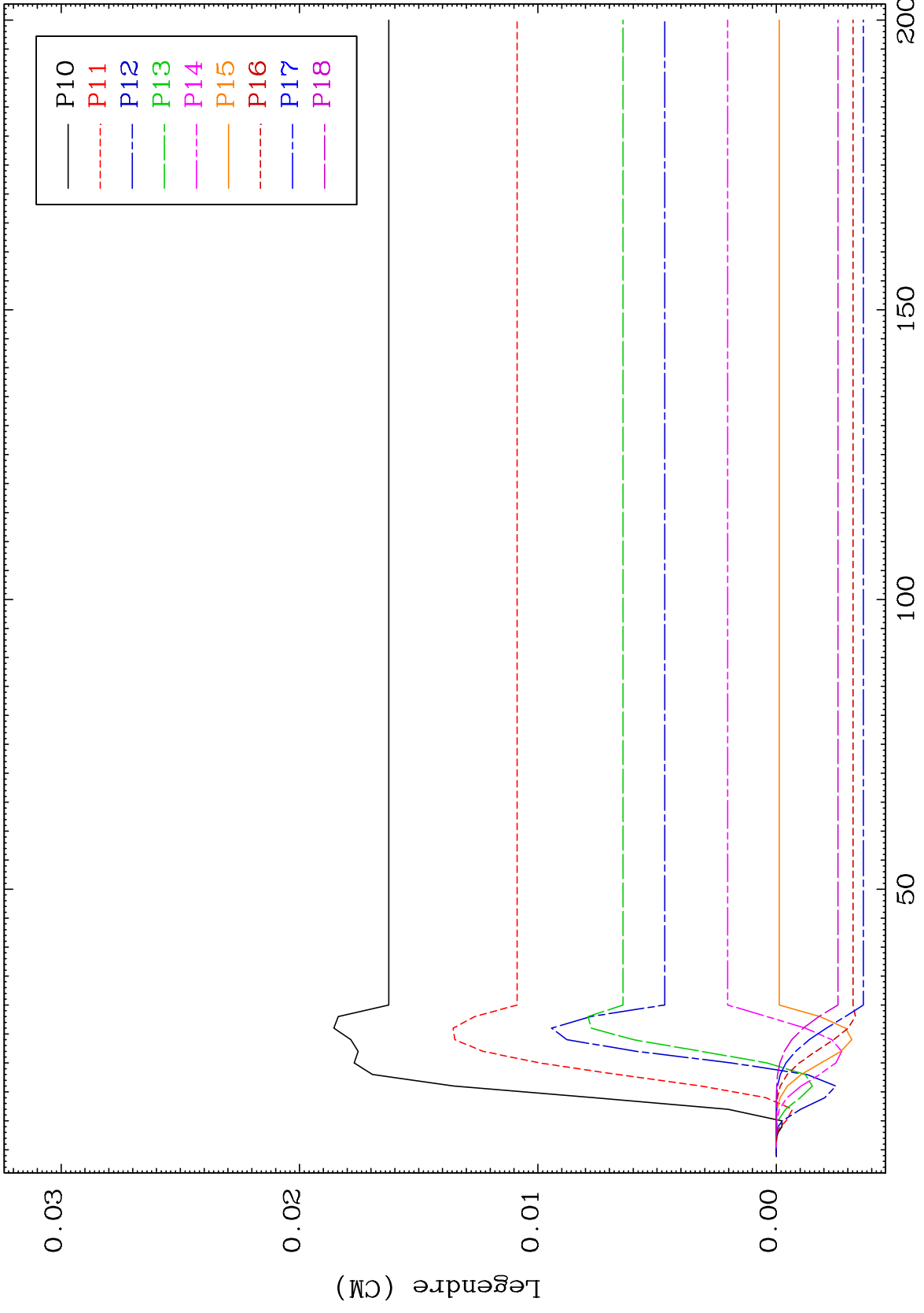
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



78

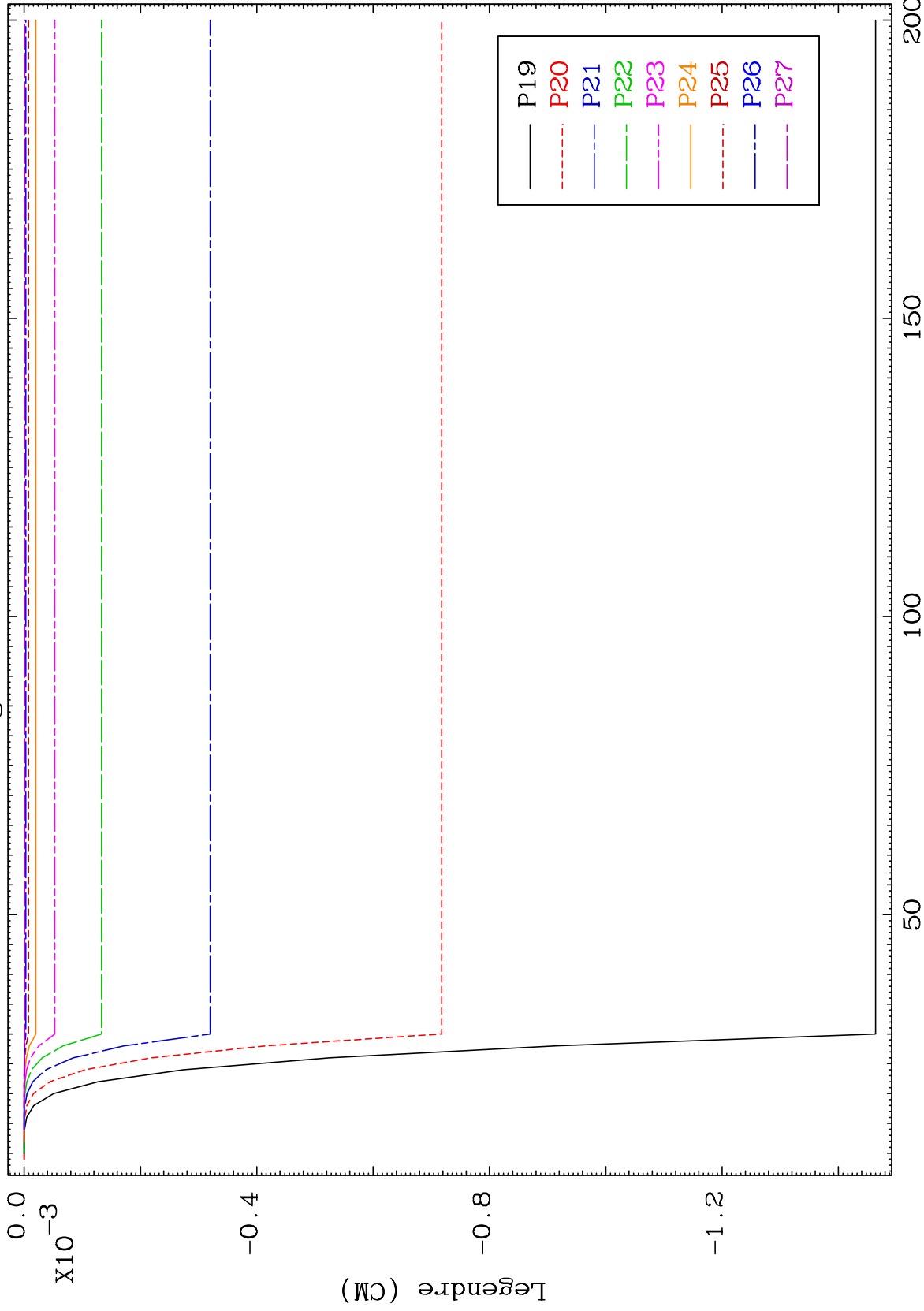
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

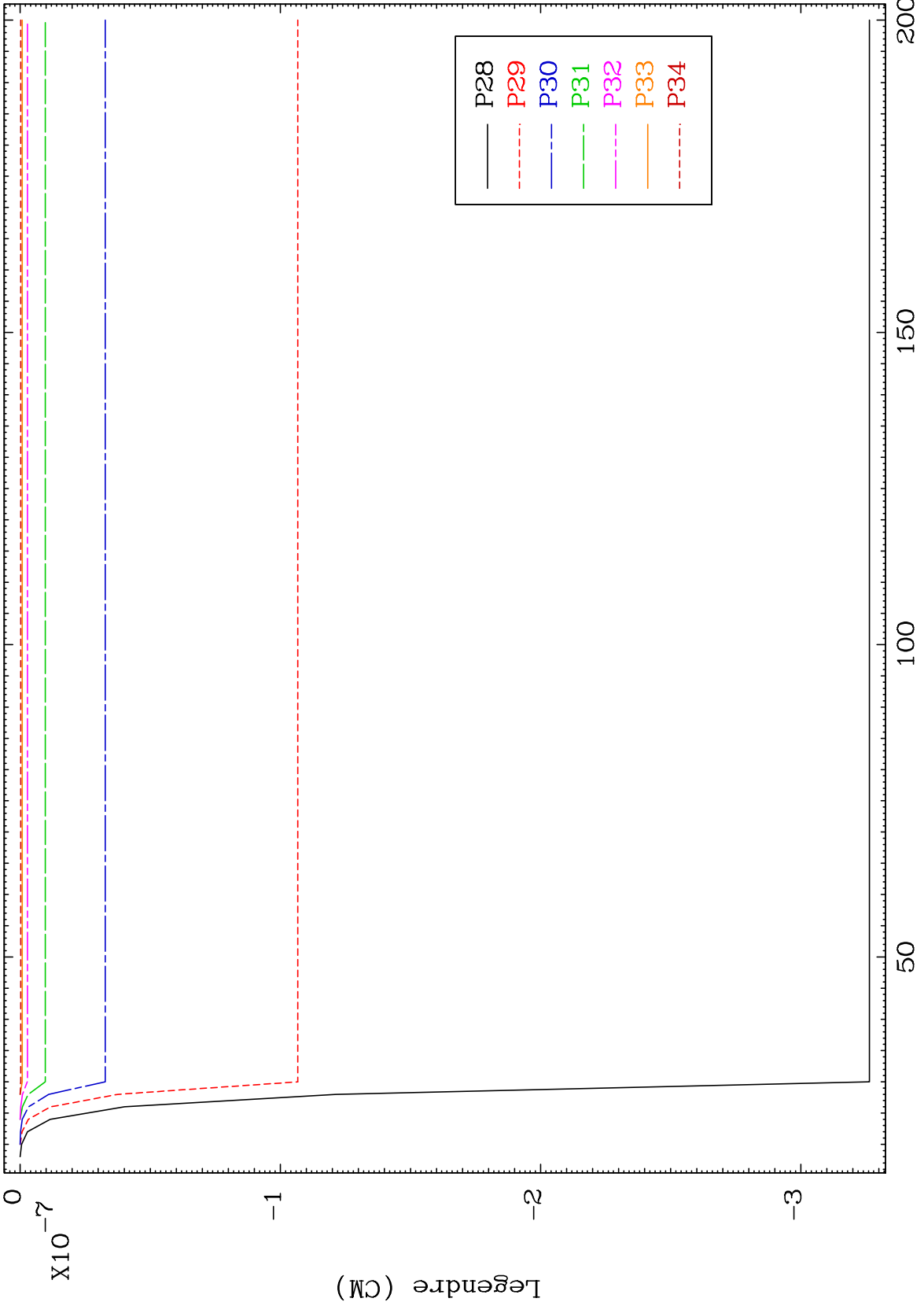


79

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 67 (n,n') Level Legendre Coefficients 42-Mo-90

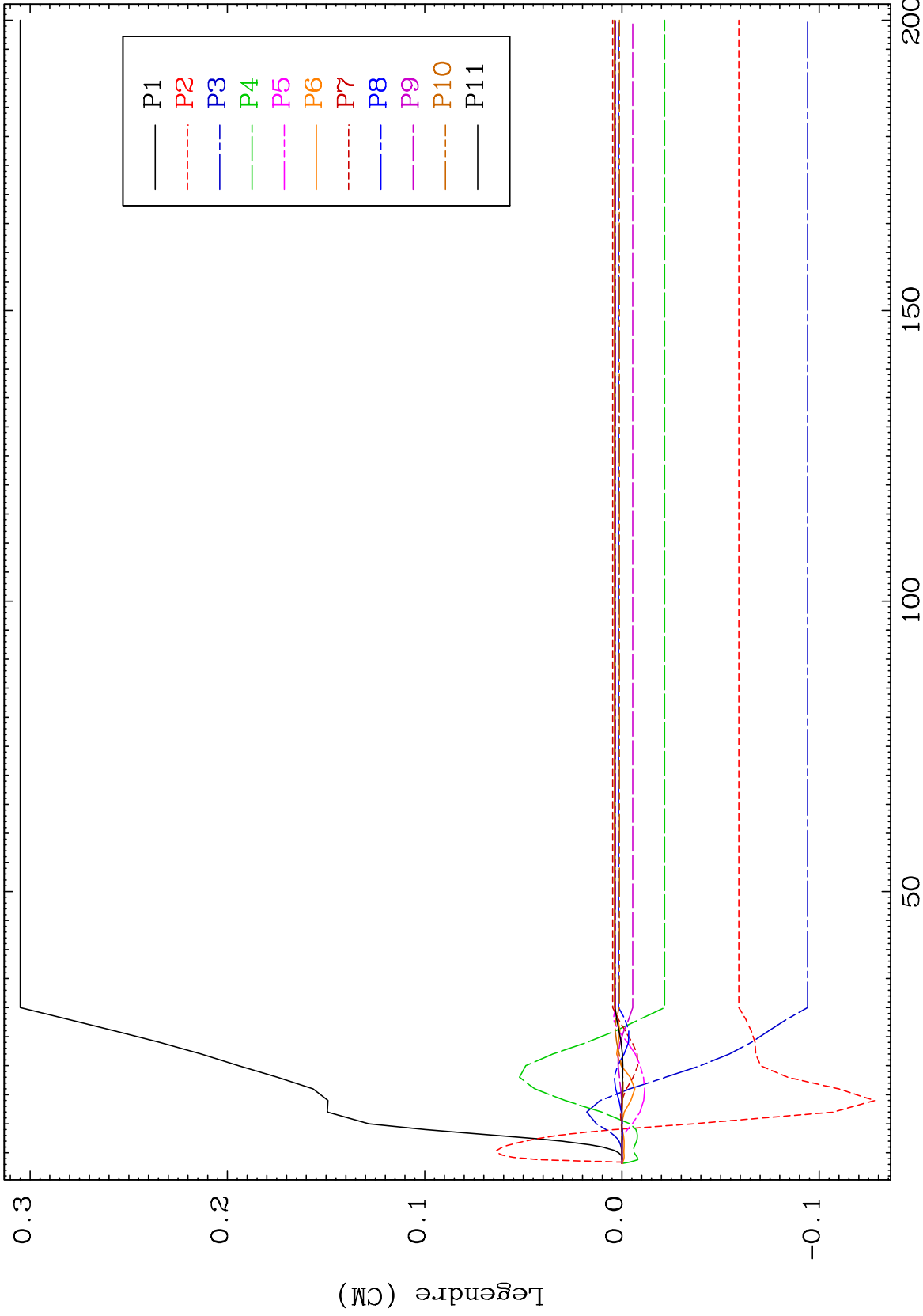


80 150 200 Incident Energy (MeV) 42-Mo-90

MAT 4219

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

42-Mo-90



81

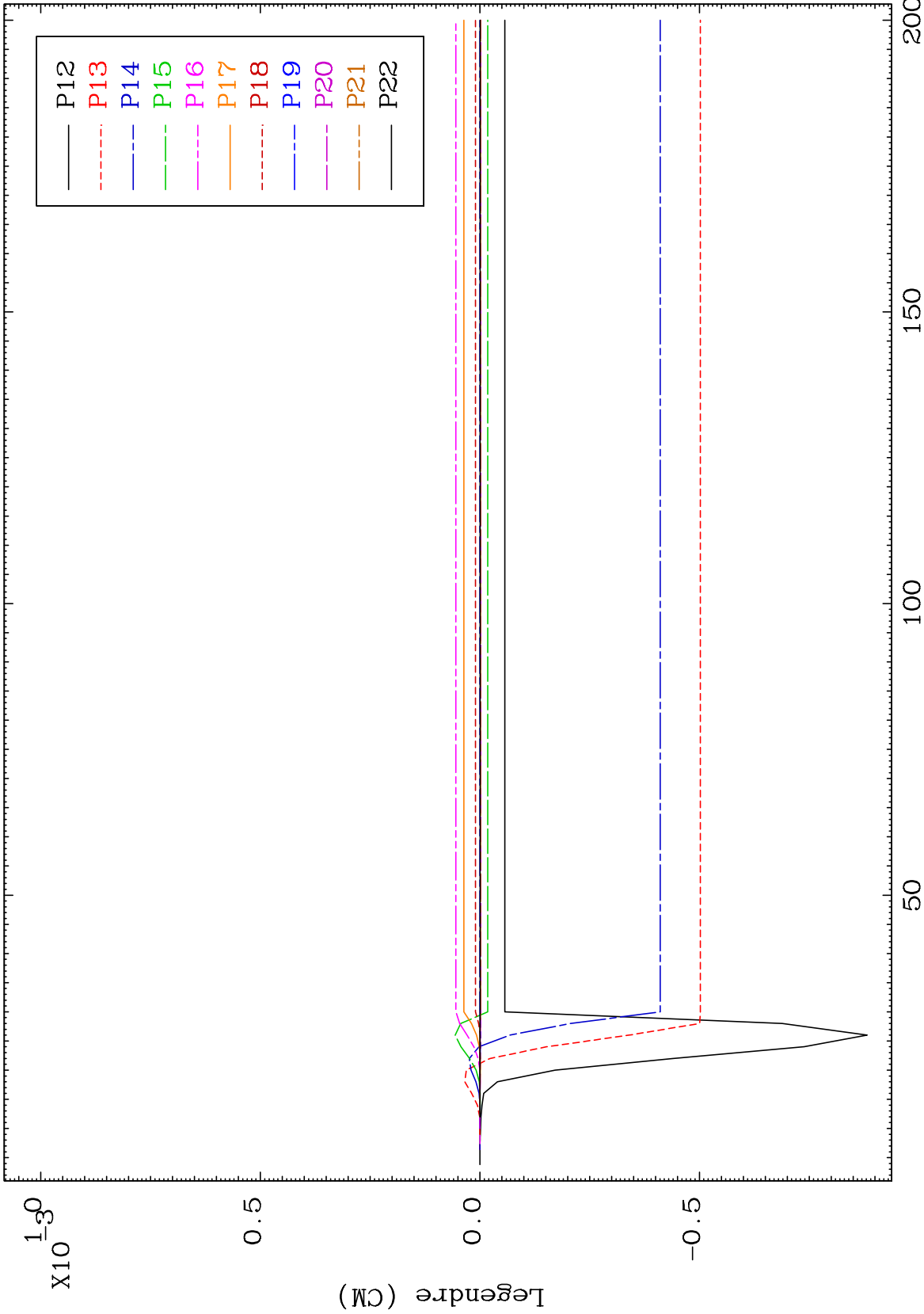
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



82

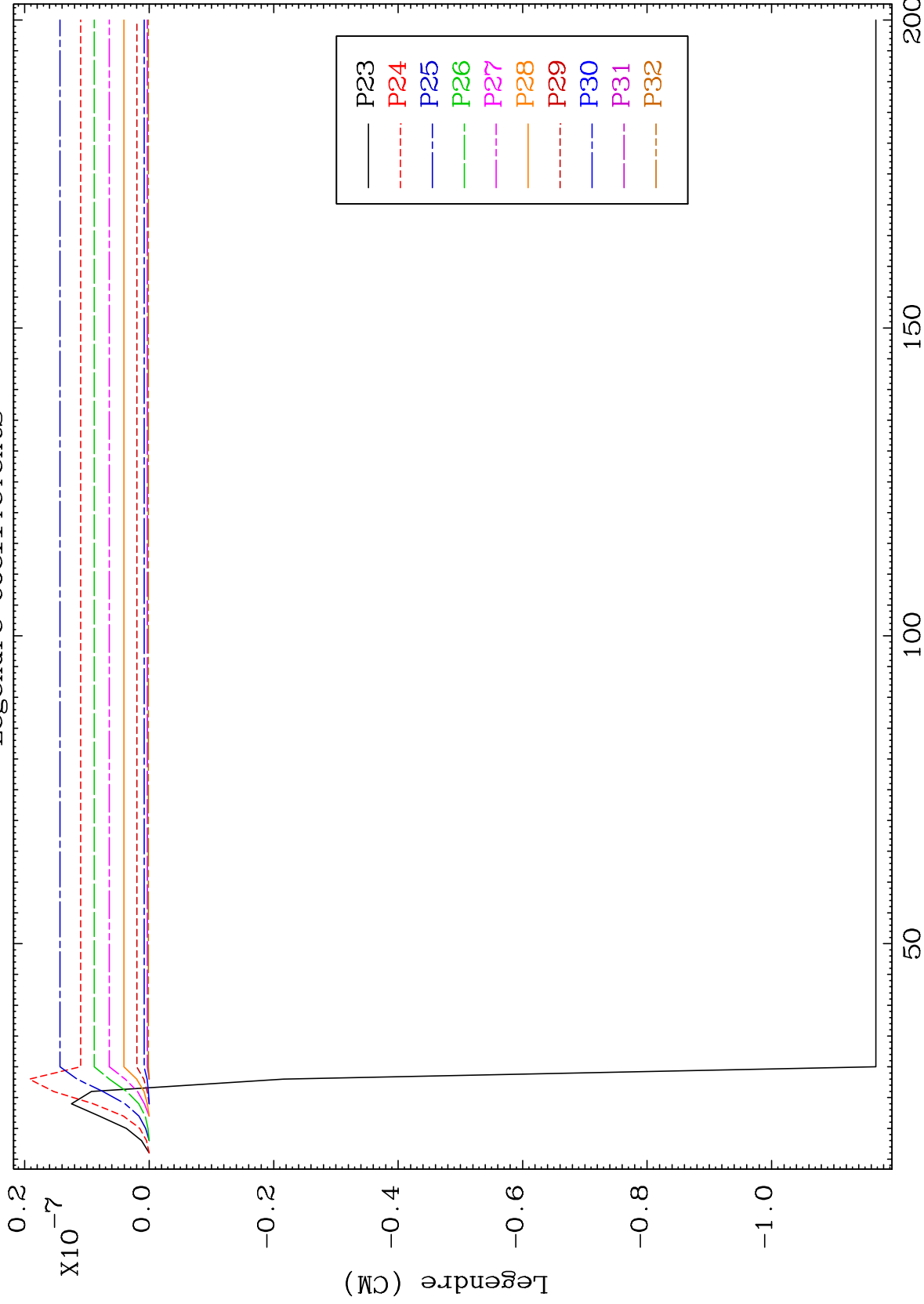
Incident Energy (MeV)

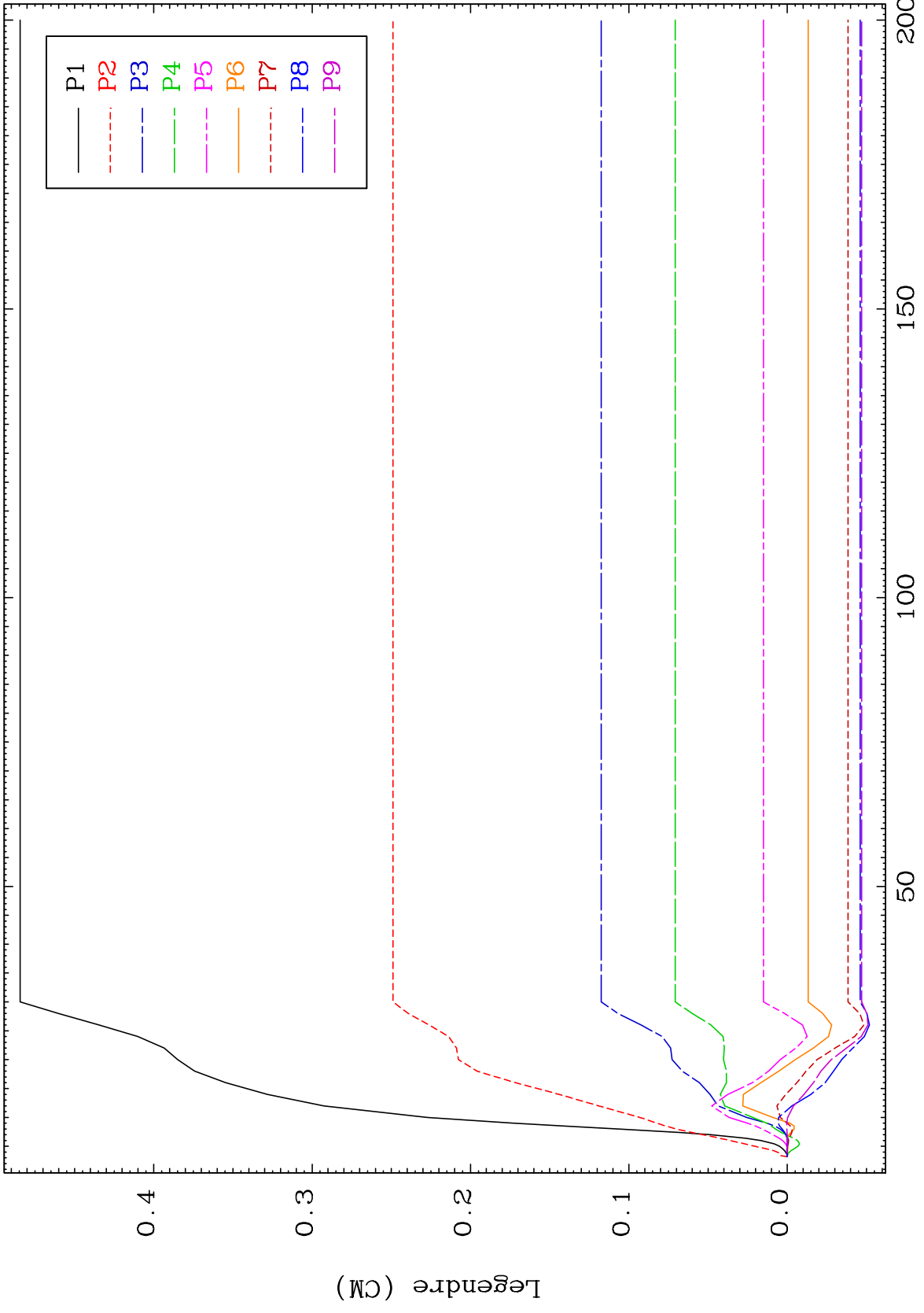
42-Mo-90

MAT 4219

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

42-Mo-90

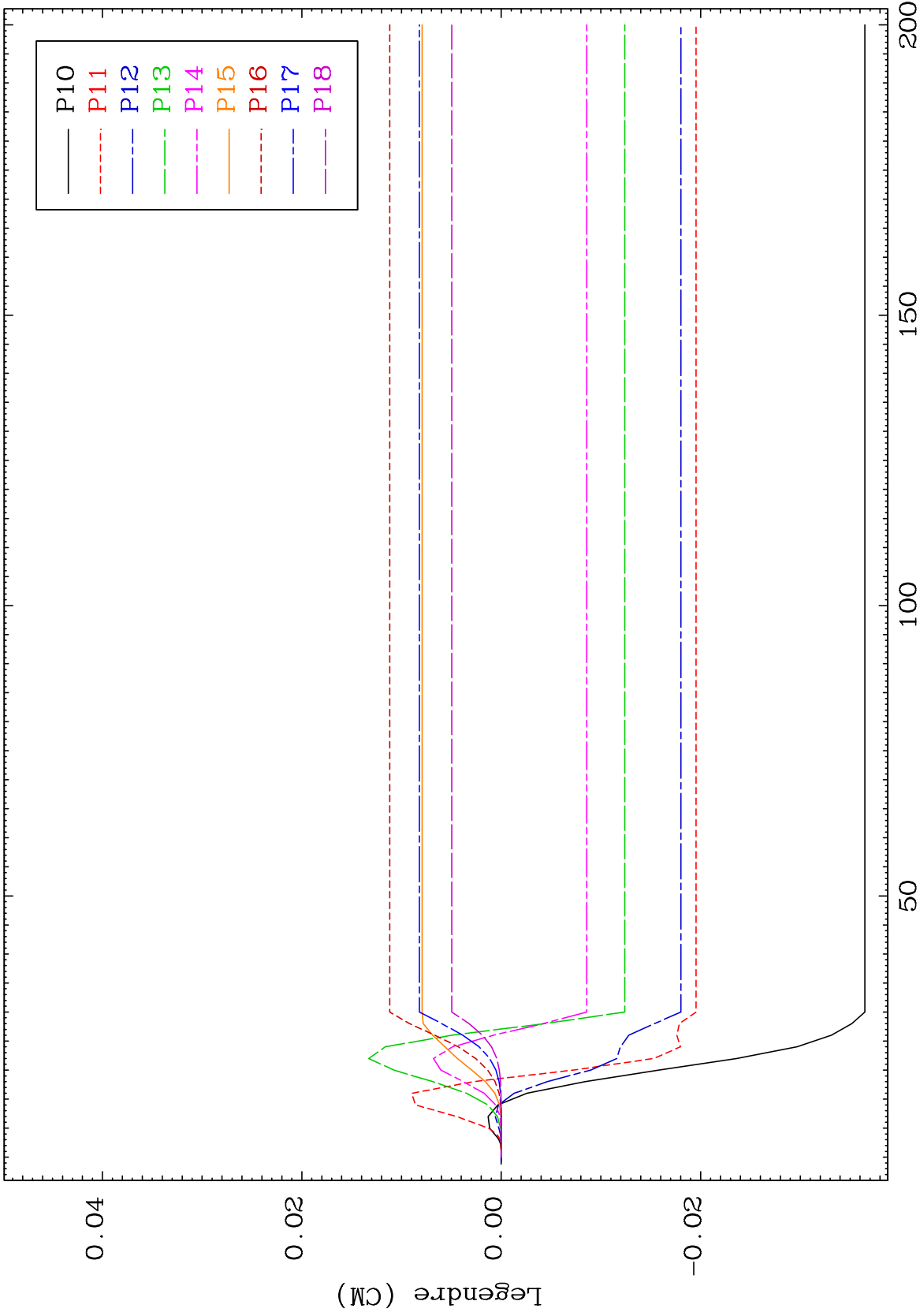




MAT 4219

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

42-Mo-90



85

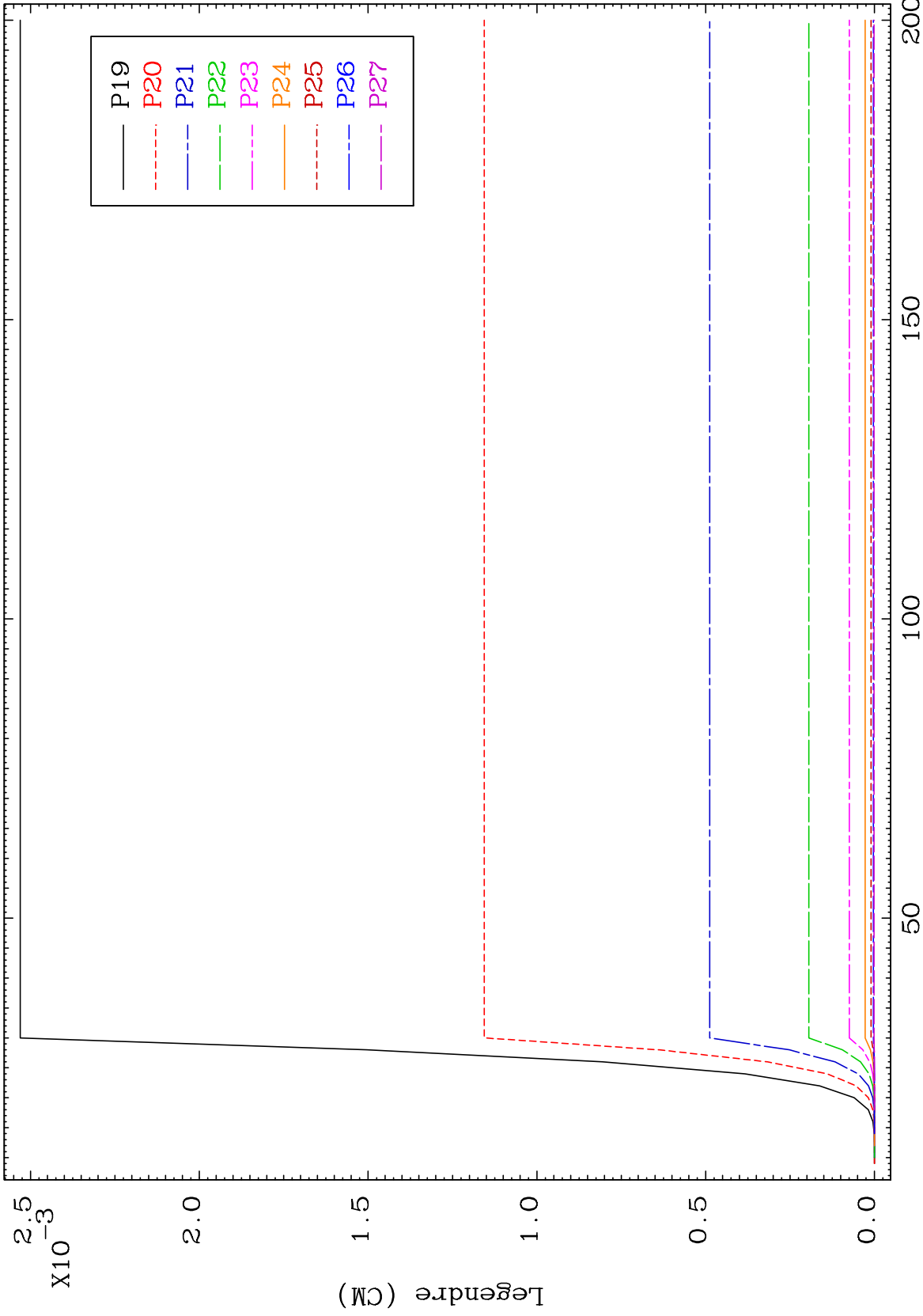
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



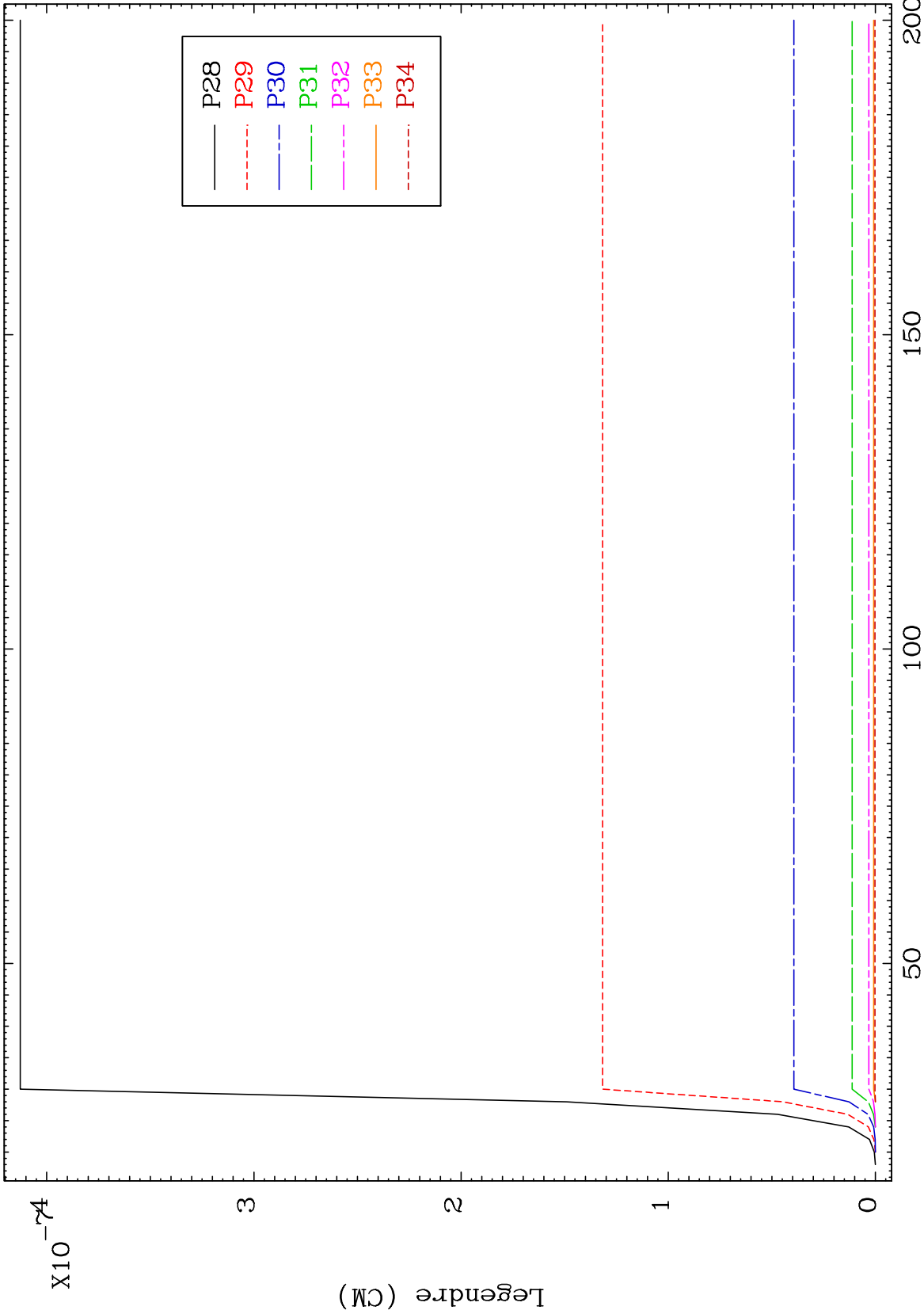
86

42-Mo-90

MAT 4219

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

42-Mo-90



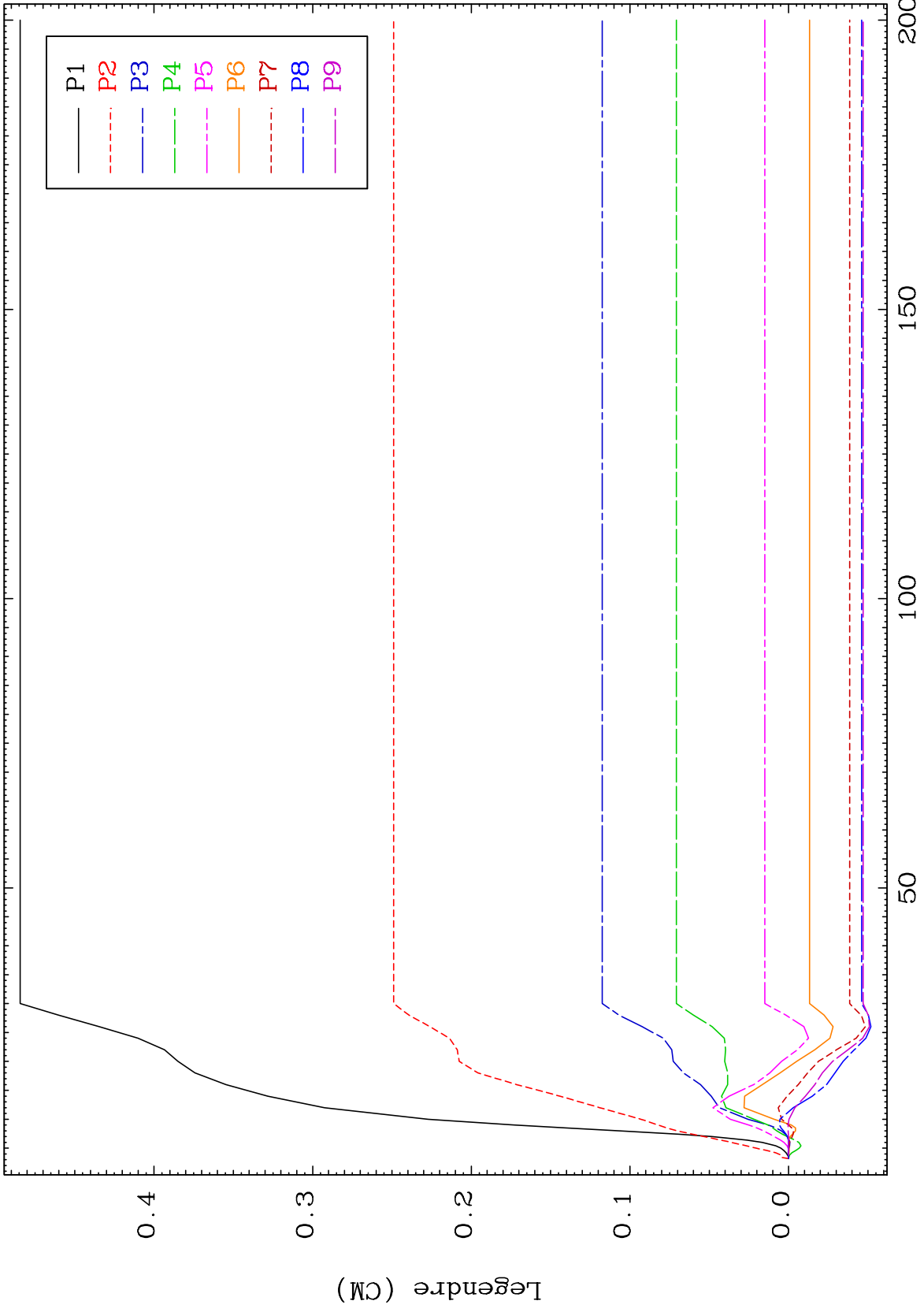
87

42-Mo-90

MAT 4219

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

42-Mo-90



88

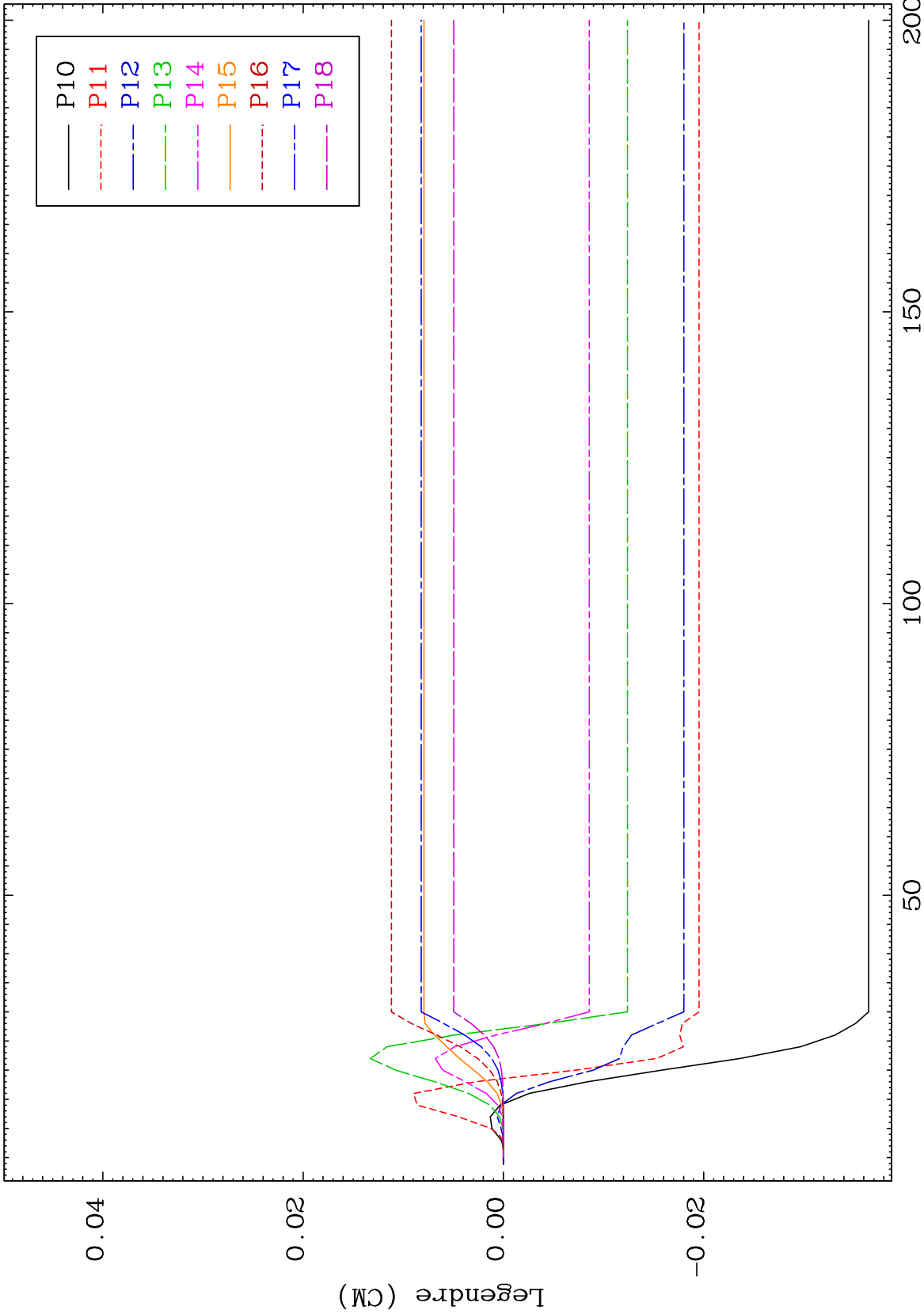
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



89

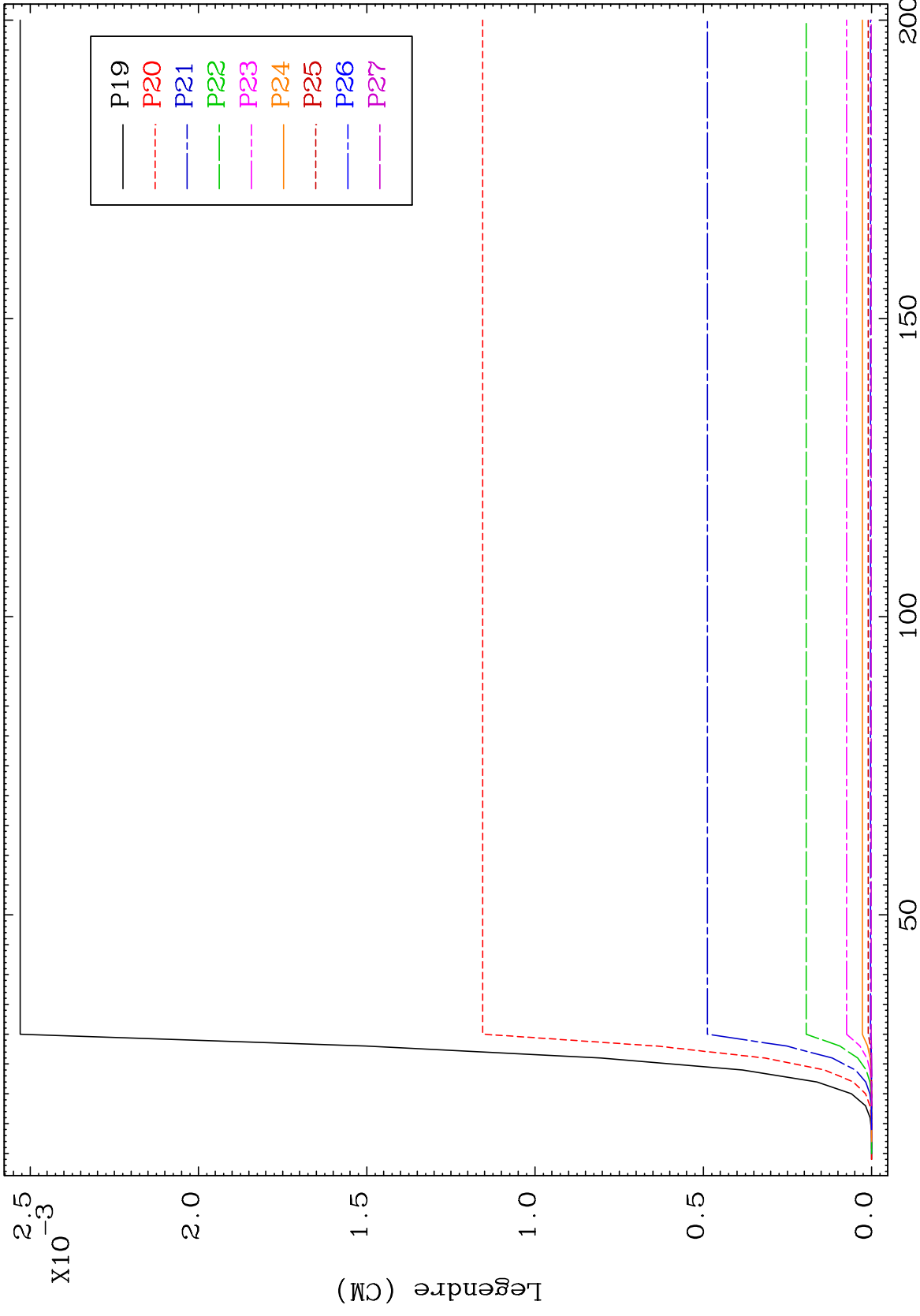
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90



42-Mo-90

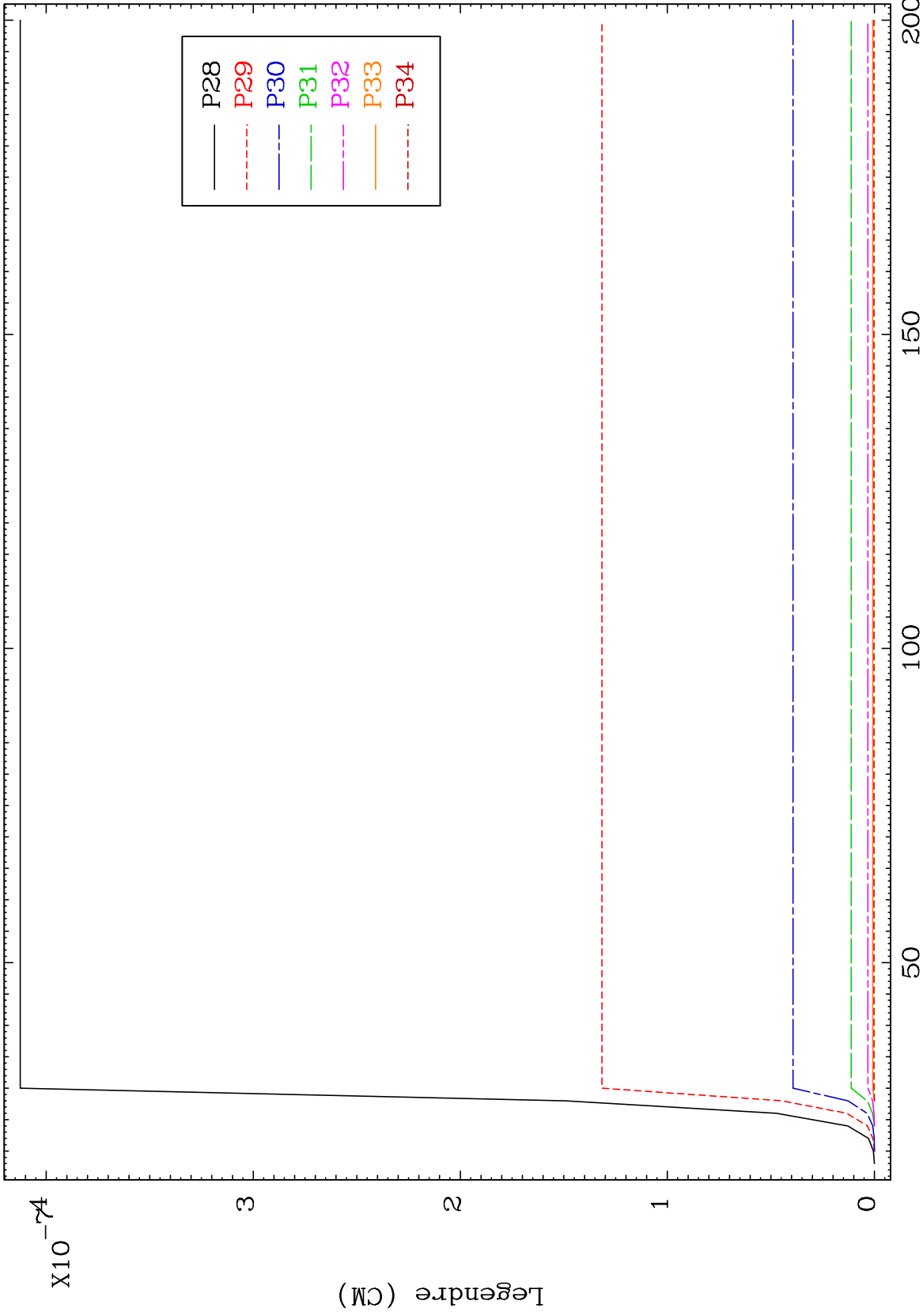
Incident Energy (MeV)

90

MAT 4219

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

42-Mo-90



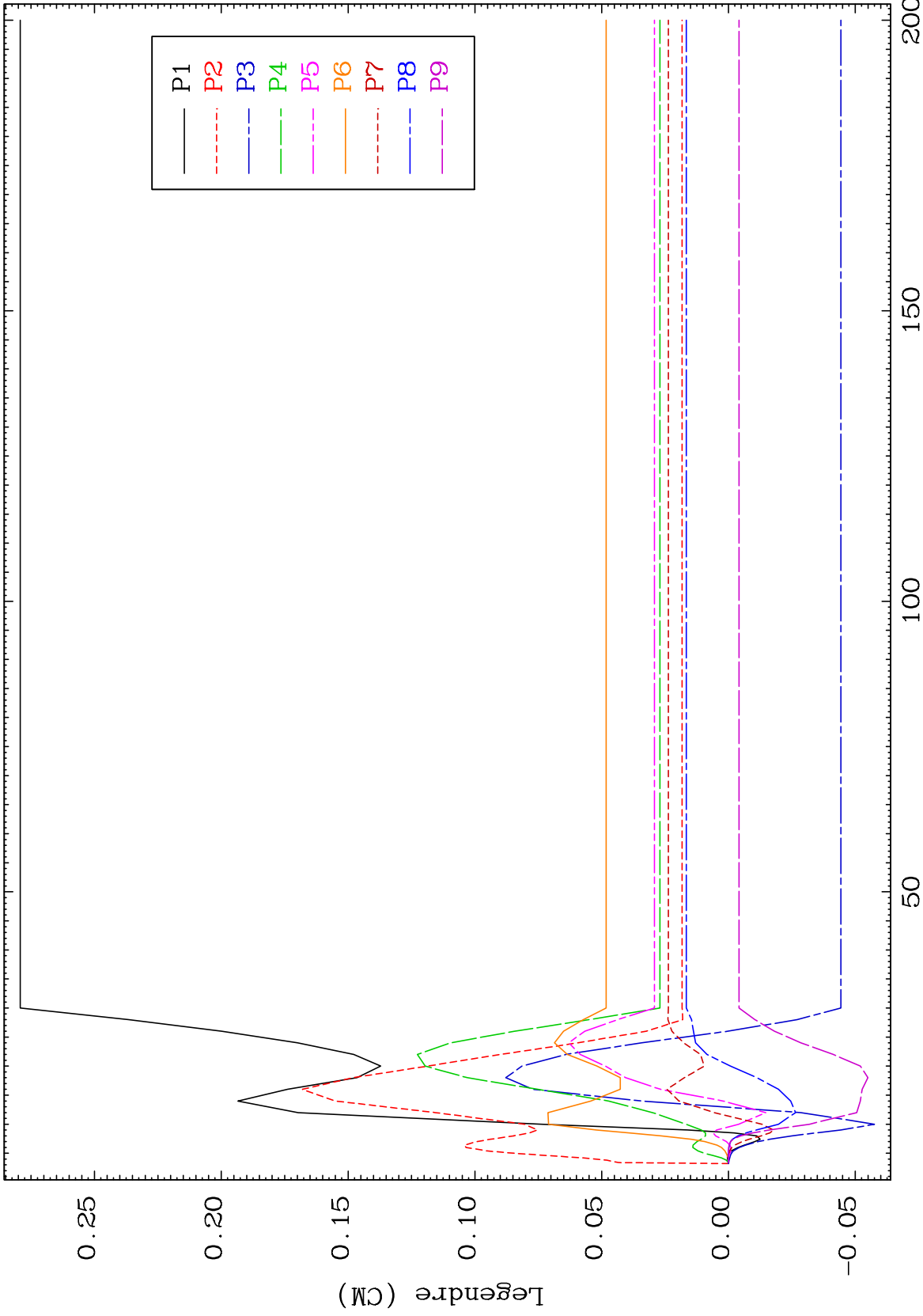
91

42-Mo-90

MAT 4219

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

42-Mo-90

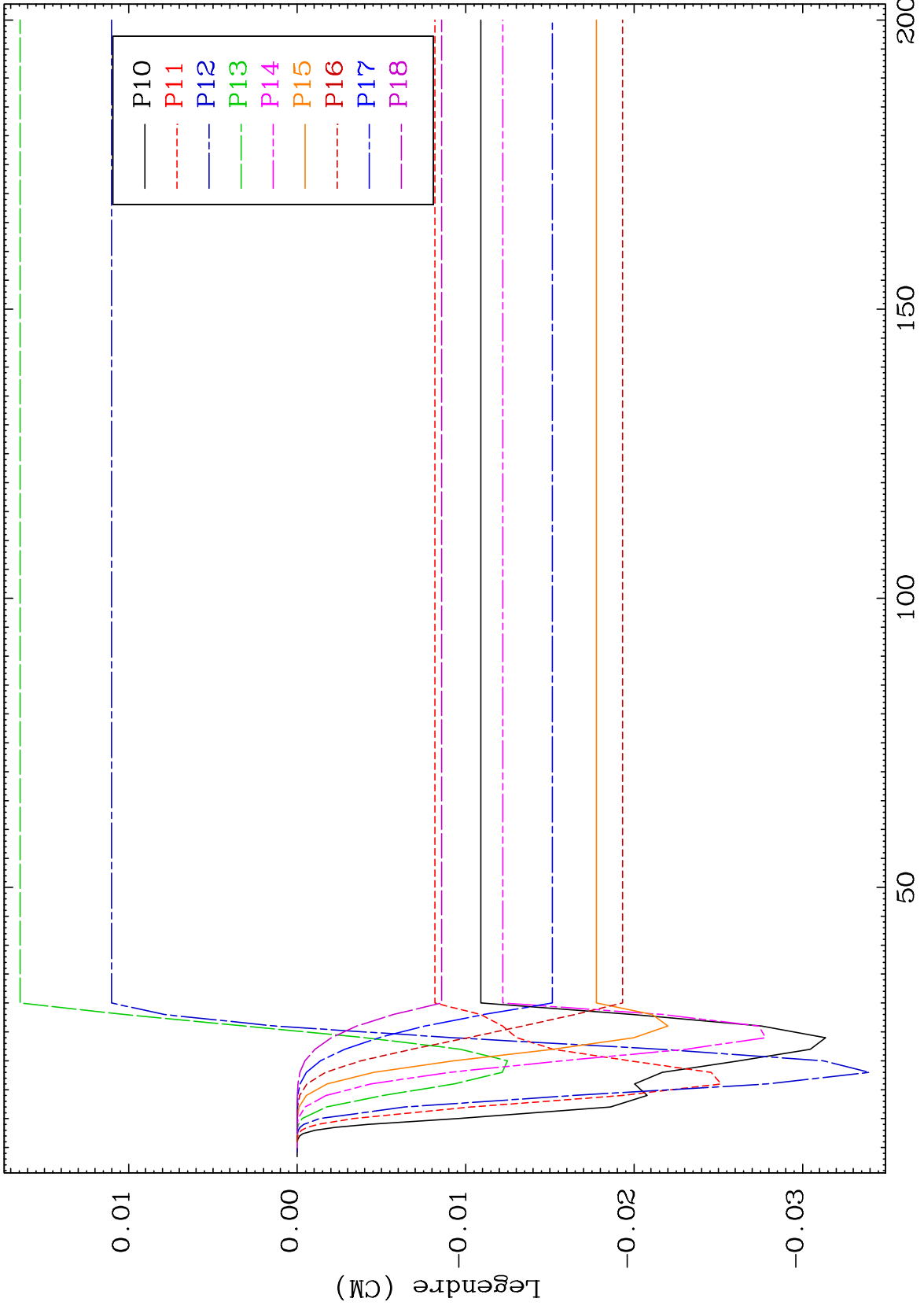


92

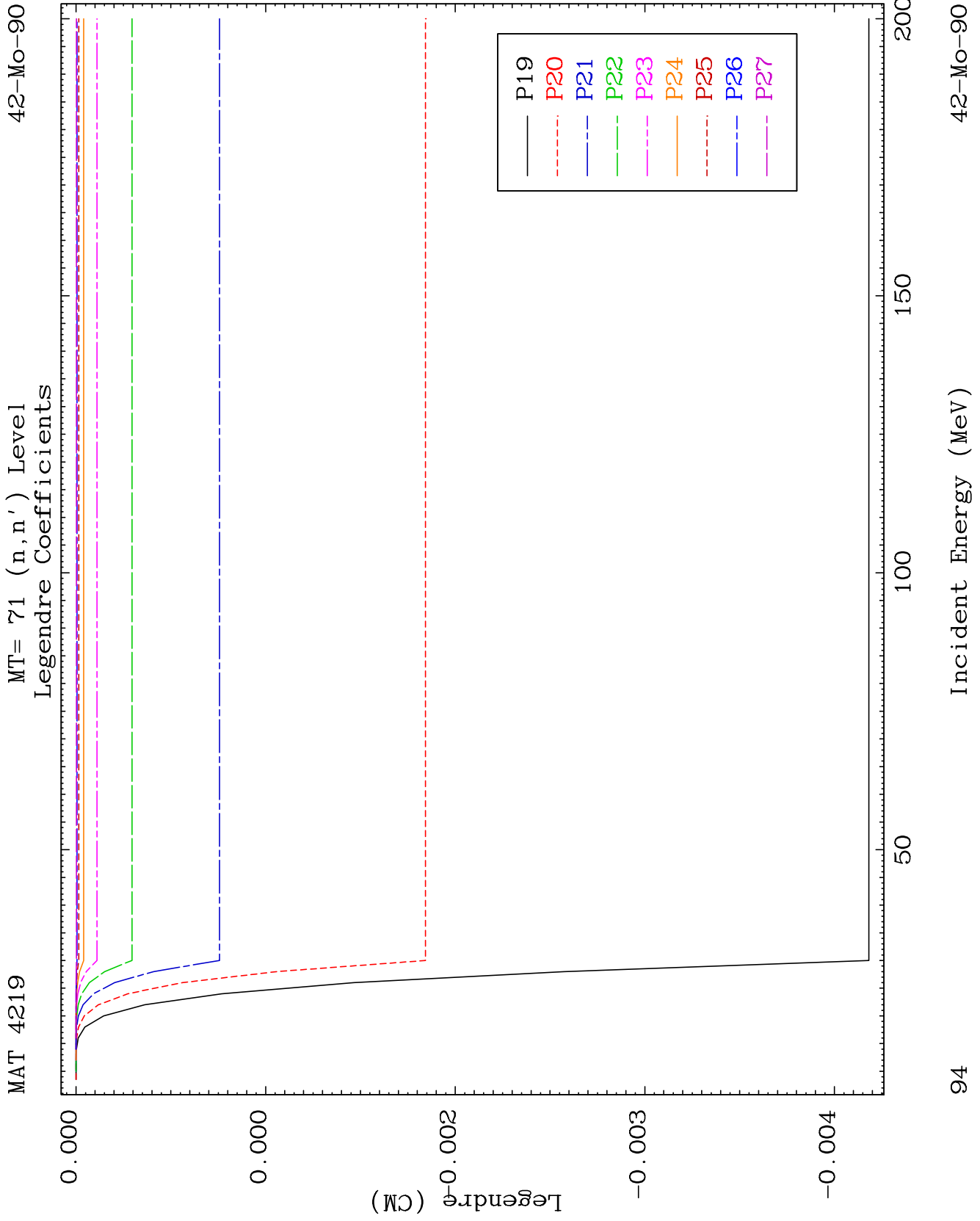
Incident Energy (MeV)

42-Mo-90

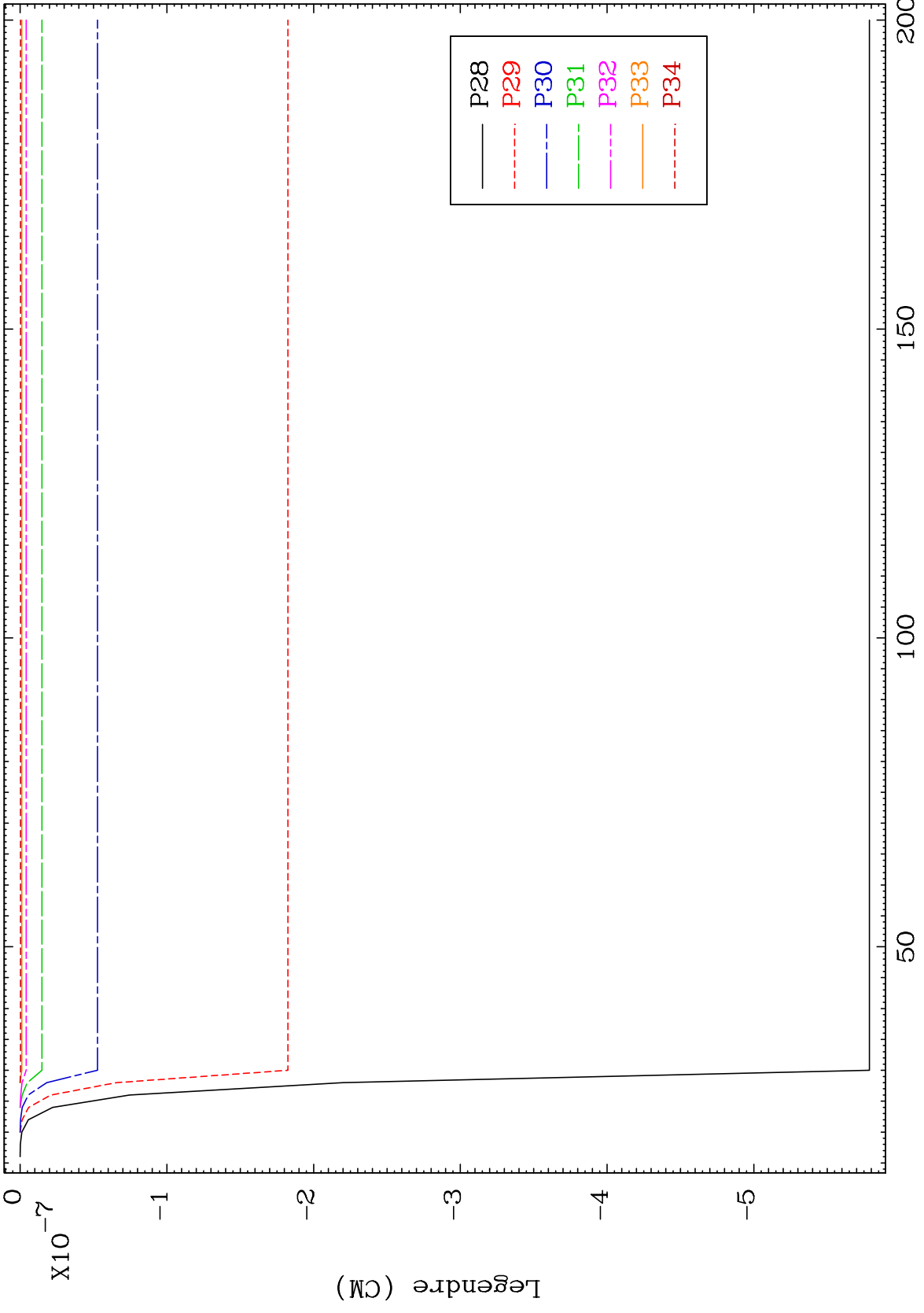
MAT 4219 MT= 71 (n,n') Level Legendre Coefficients 42-Mo-90



93 42-Mo-90

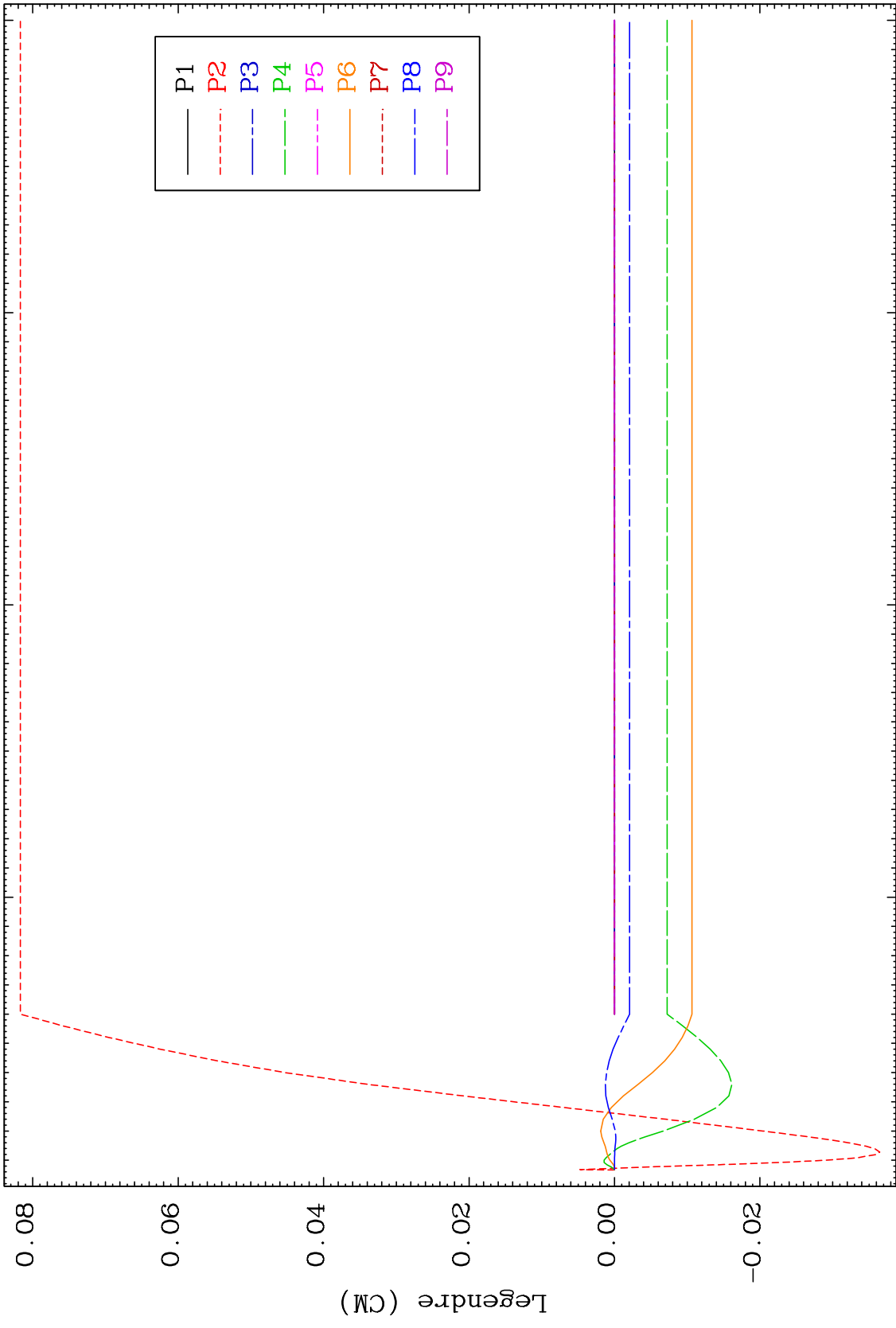


MAT 4219 MT= 71 (n,n') Level Legendre Coefficients 42-Mo-90



95 42-Mo-90

MAT 4219 MT= 72 (n,n') Level Legendre Coefficients 42-Mo-90

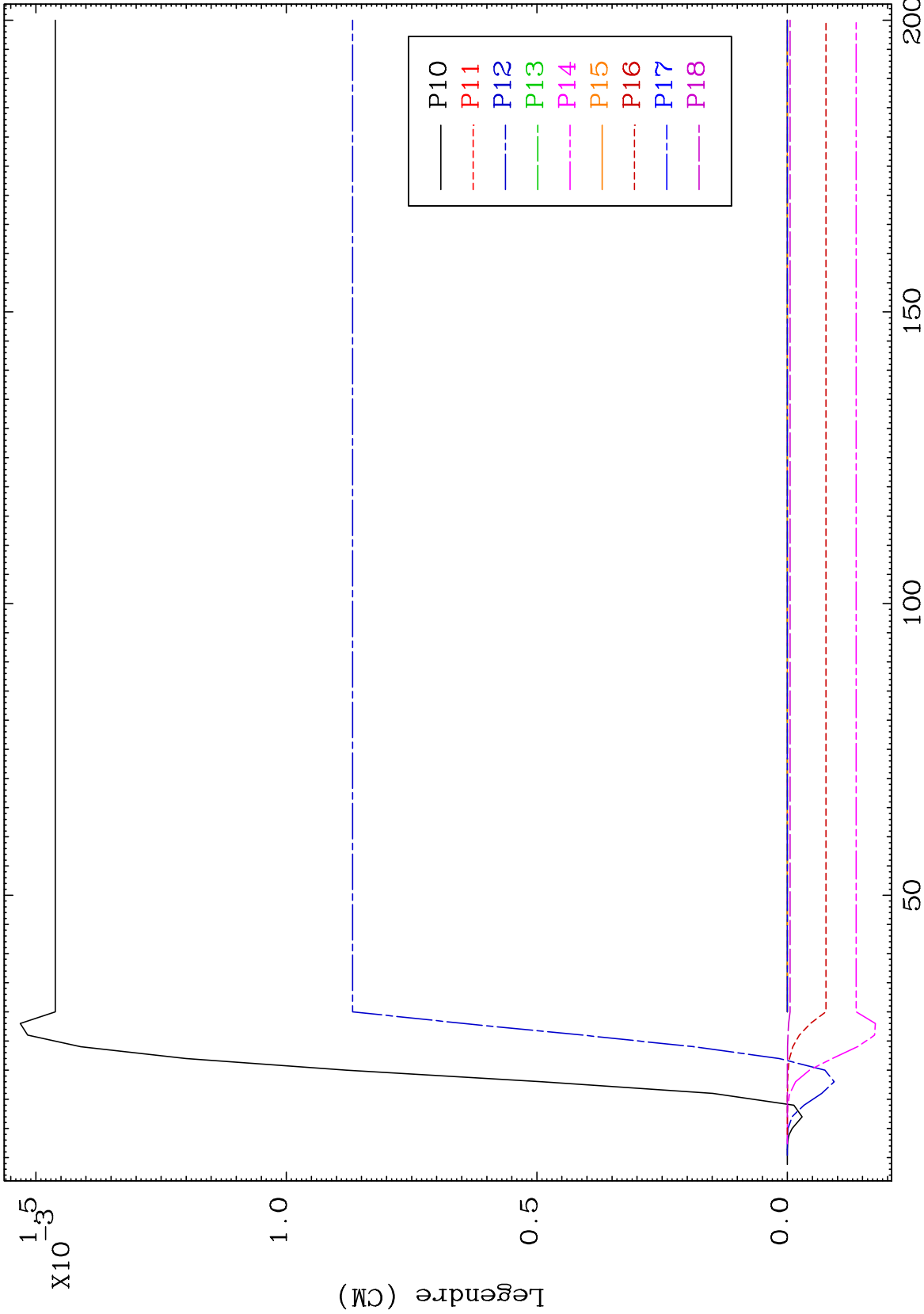


96 Incident Energy (MeV) 42-Mo-90

MAT 4219

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

42-Mo-90

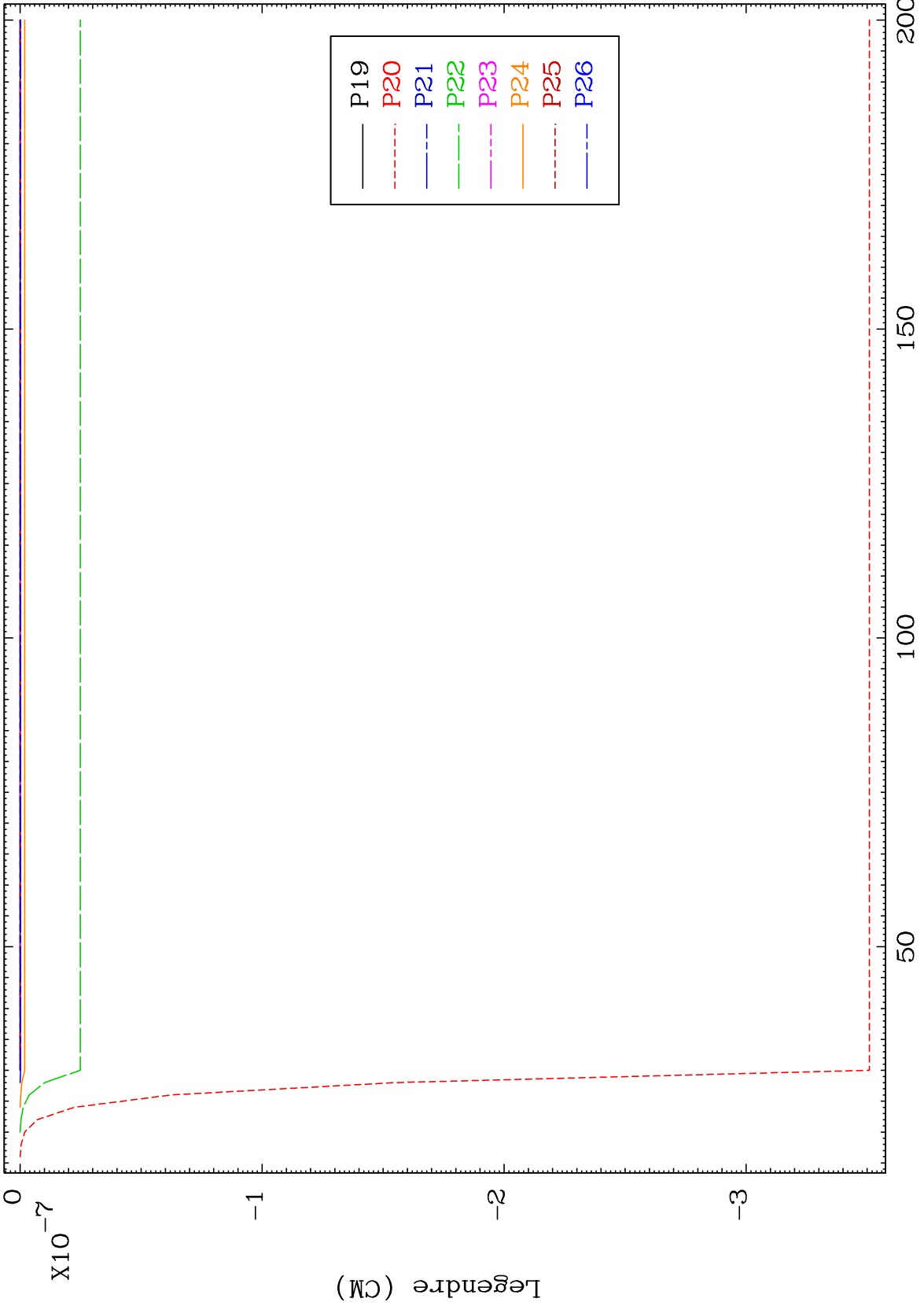


97

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 72 (n,n') Level Legendre Coefficients 42-Mo-90

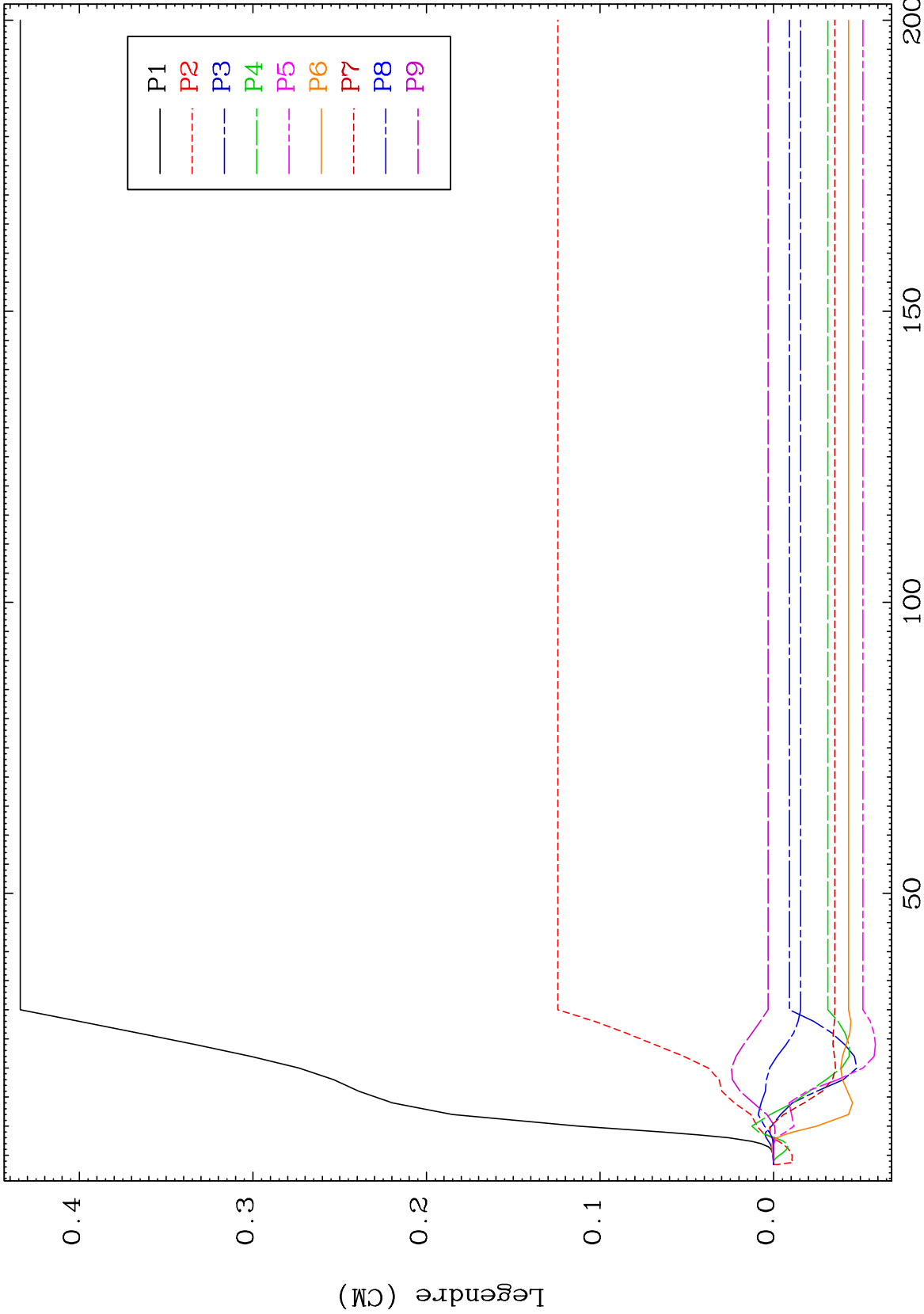


98 42-Mo-90

MAT 4219

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

42-Mo-90



99

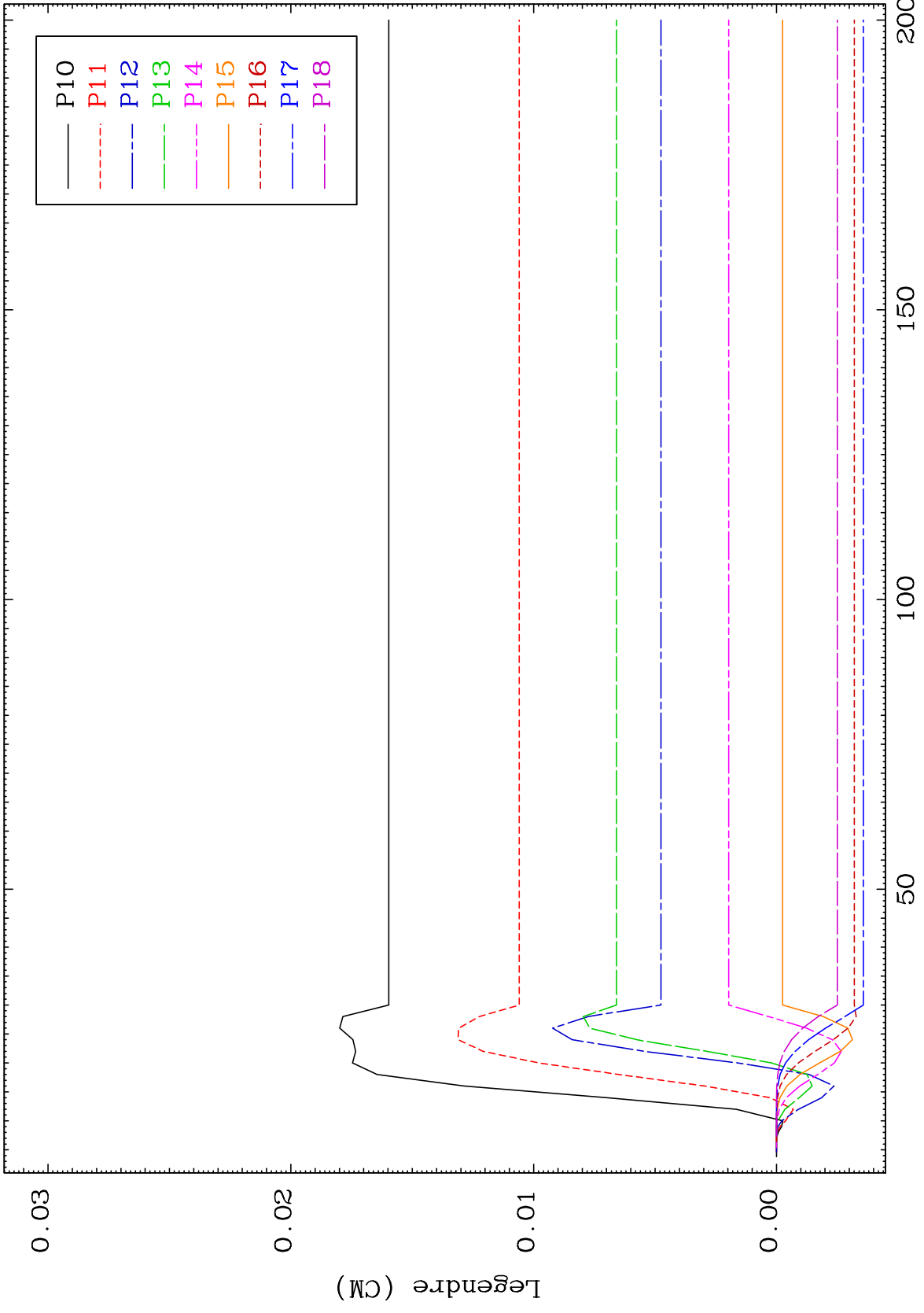
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

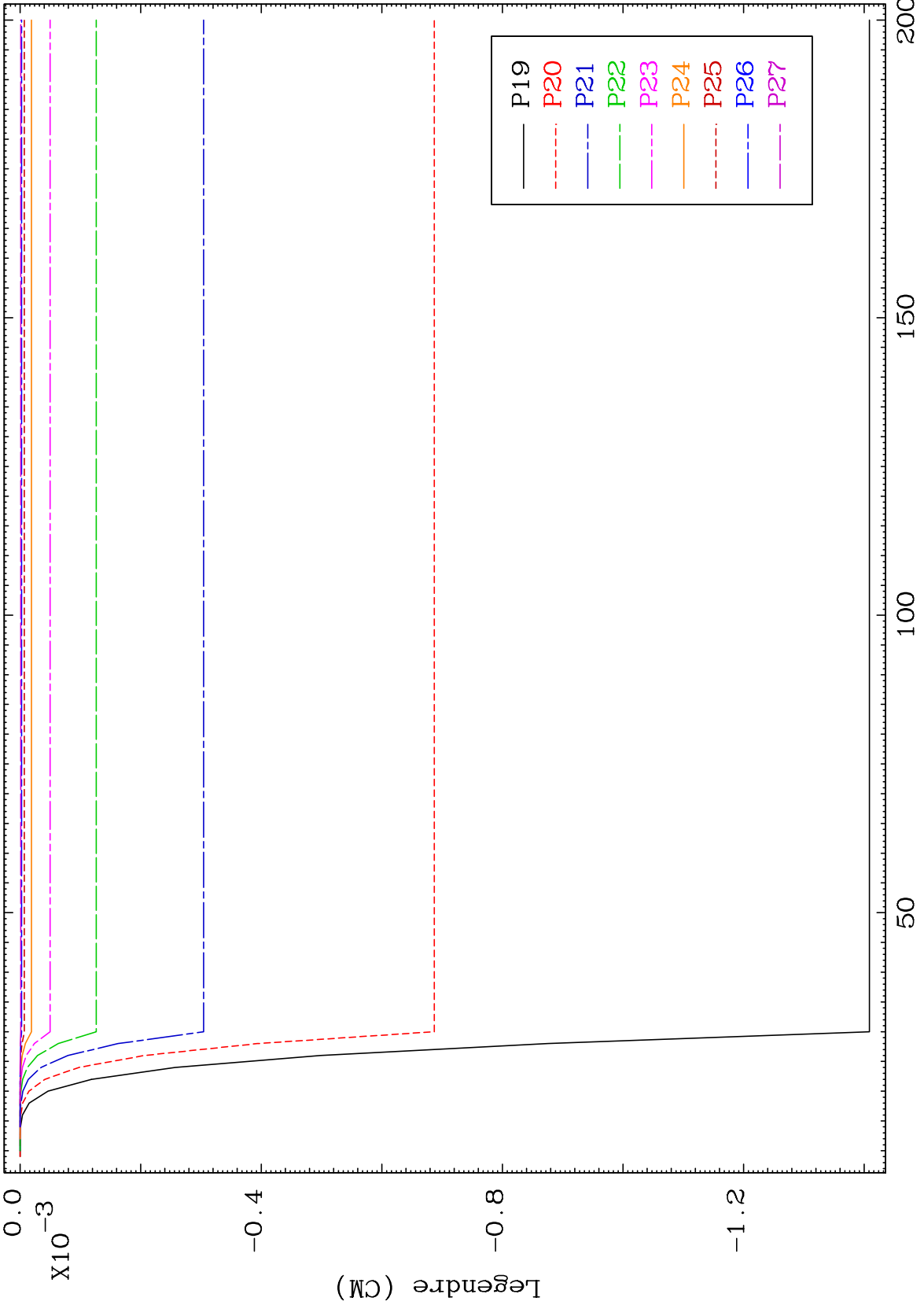


42-Mo-90

Incident Energy (MeV)

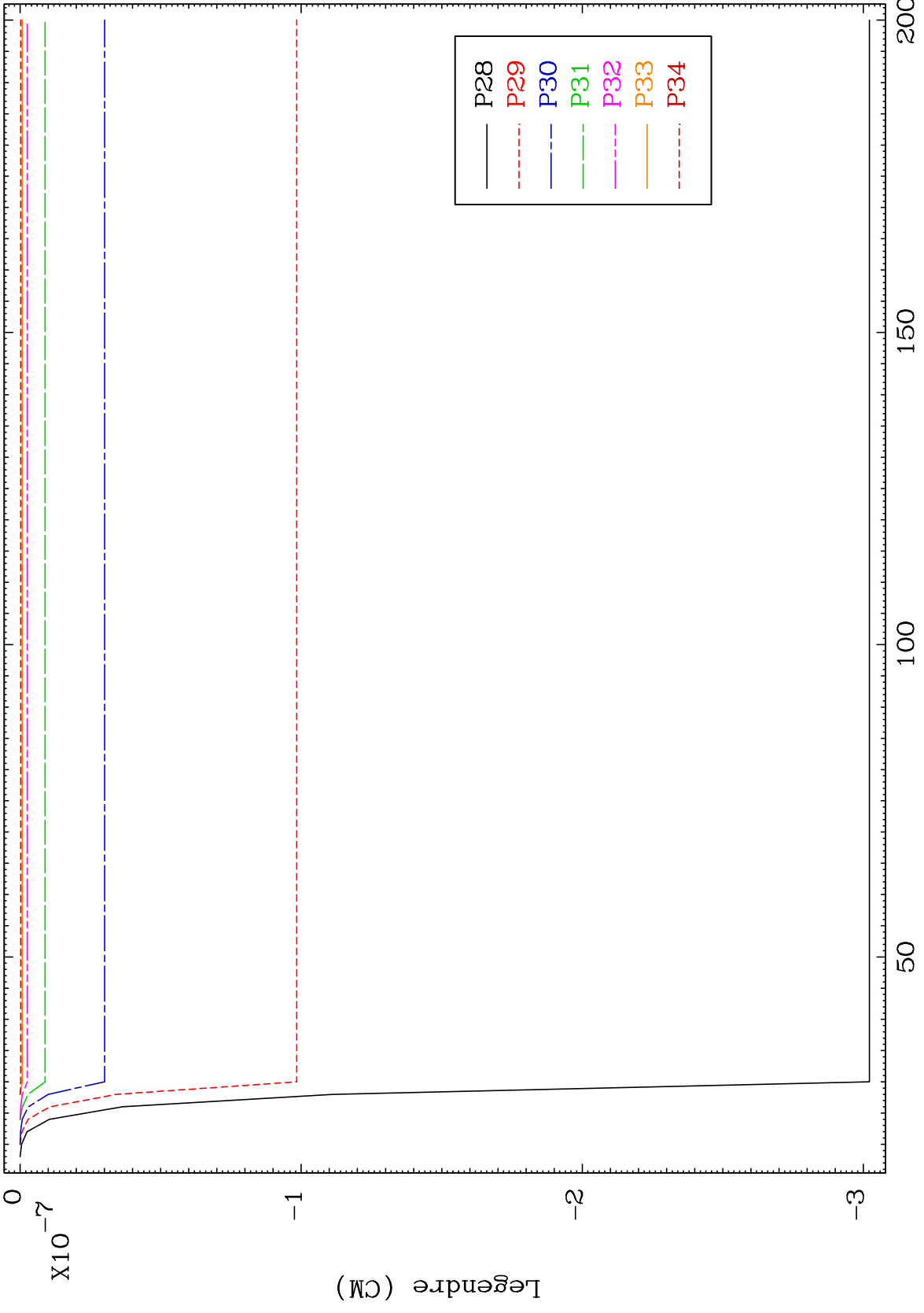
100

MAT 4219 MT= 73 (n,n') Level Legendre Coefficients 42-Mo-90



101 Incident Energy (MeV) 42-Mo-90

MAT 4219 MT= 73 (n,n') Level Legendre Coefficients 42-Mo-90

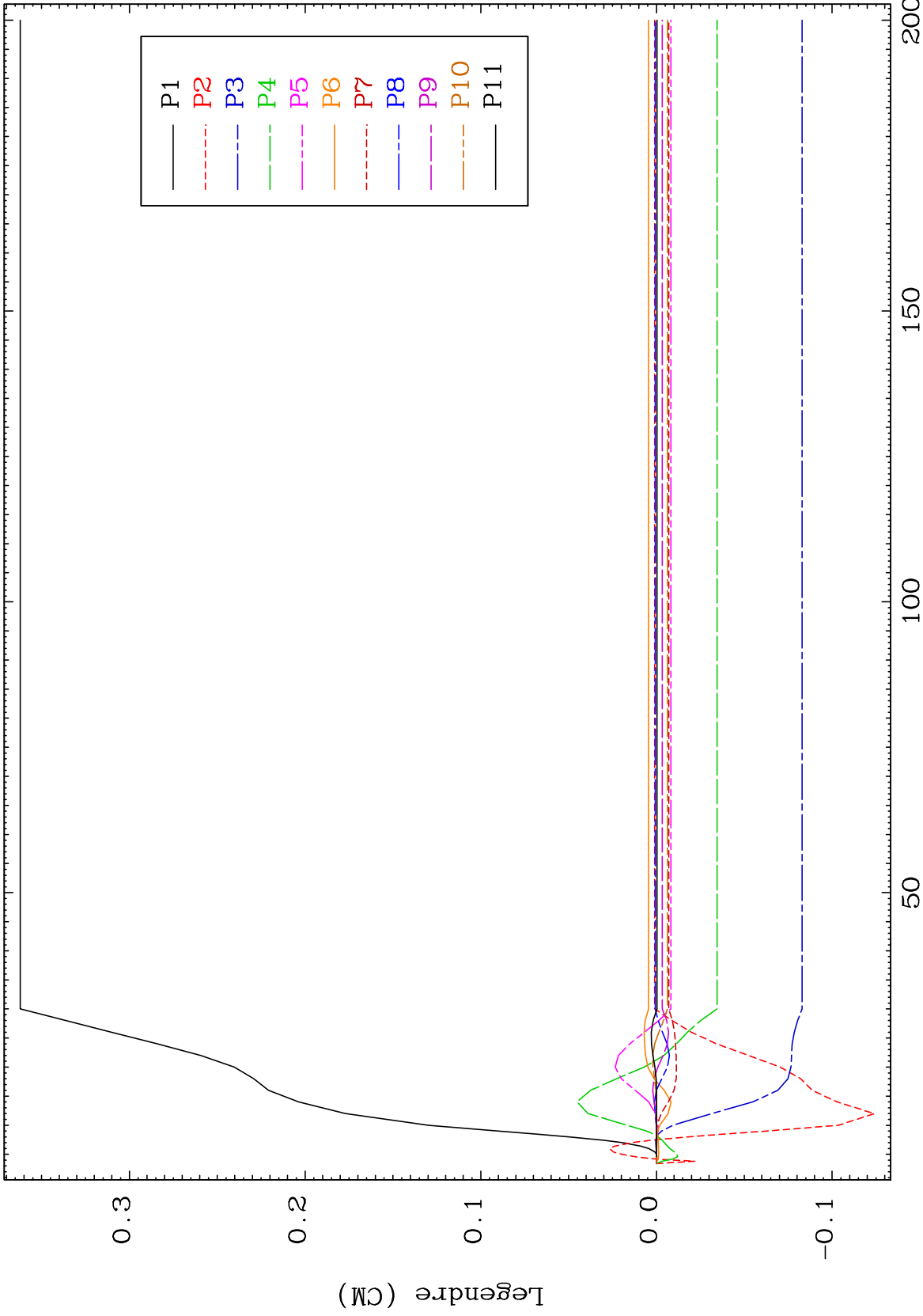


102 Incident Energy (MeV) 42-Mo-90

MAT 4219

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

42-Mo-90



103

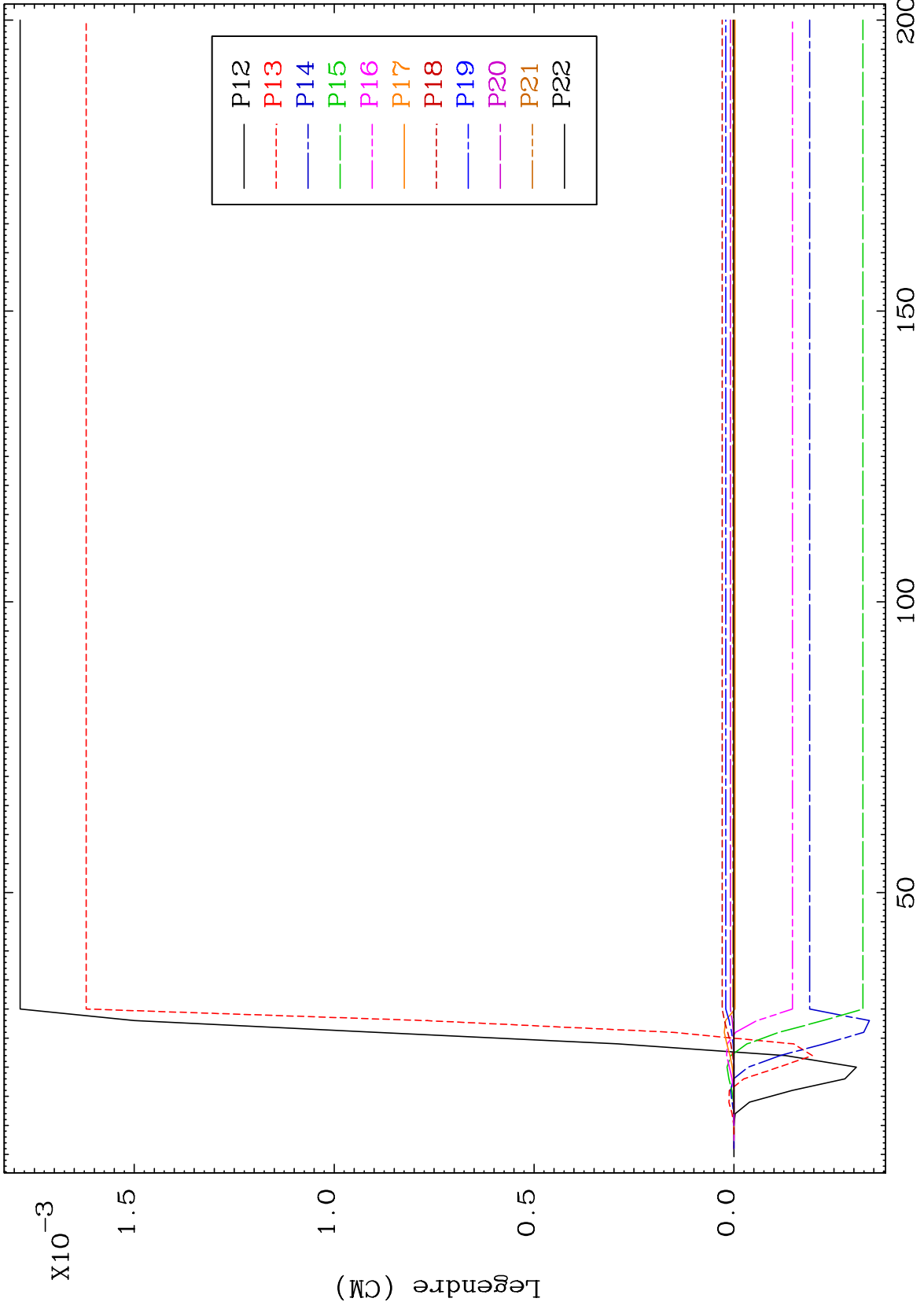
Incident Energy (MeV)

42-Mo-90

MAT 4219

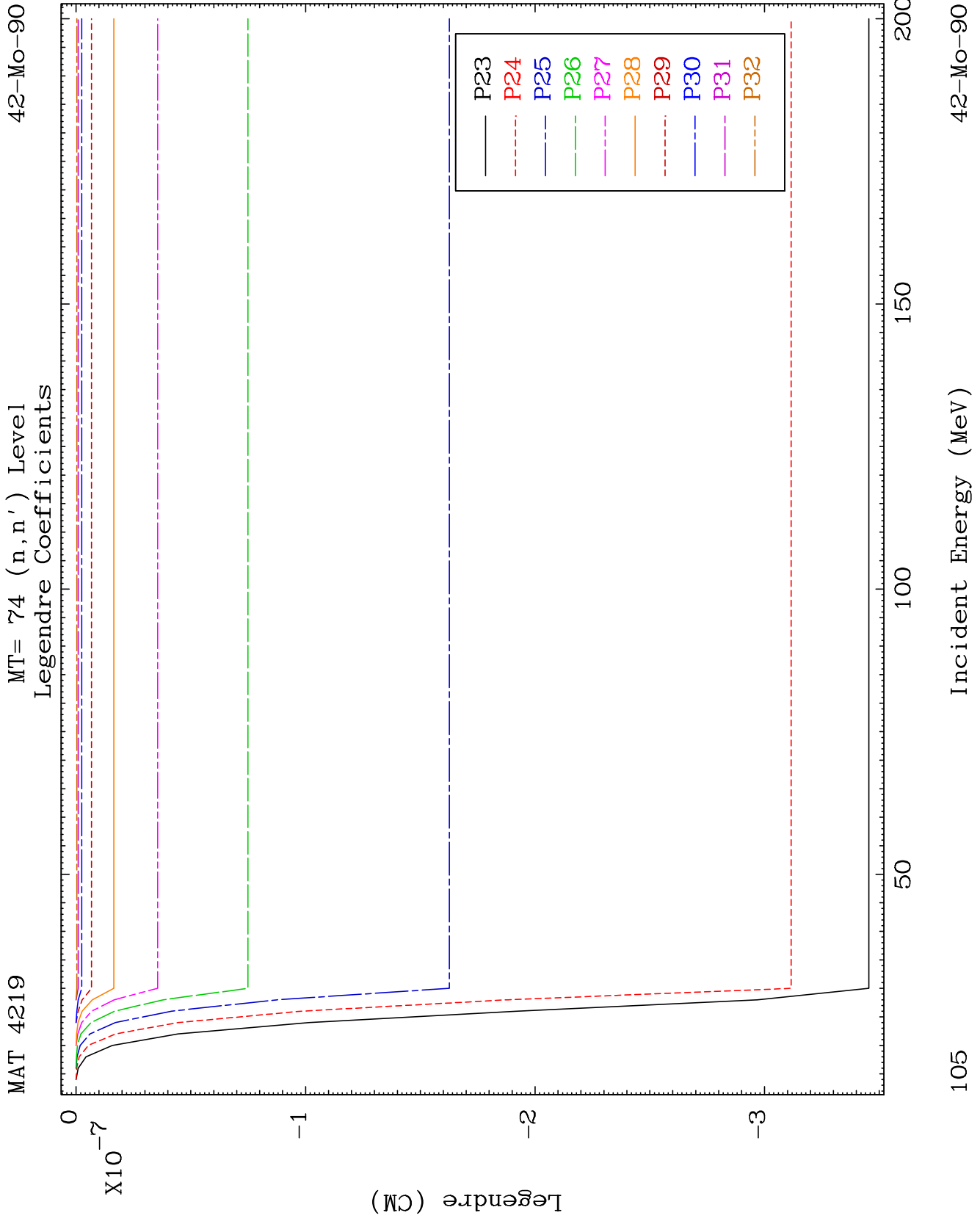
MT= 74 (n,n') Level  
Legendre Coefficients

42-Mo-90



104

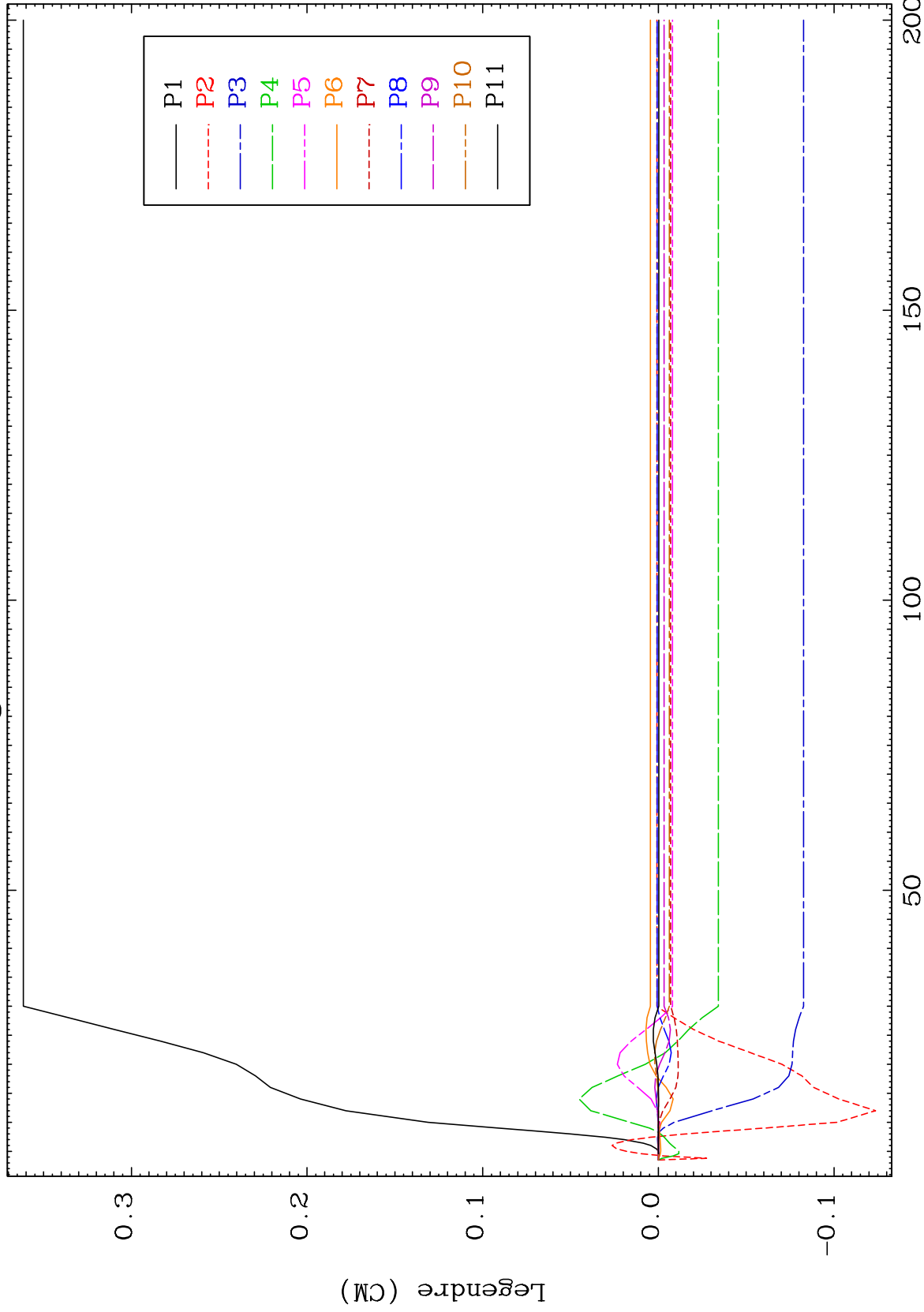
42-Mo-90



MAT 4219

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

42-Mo-90



106

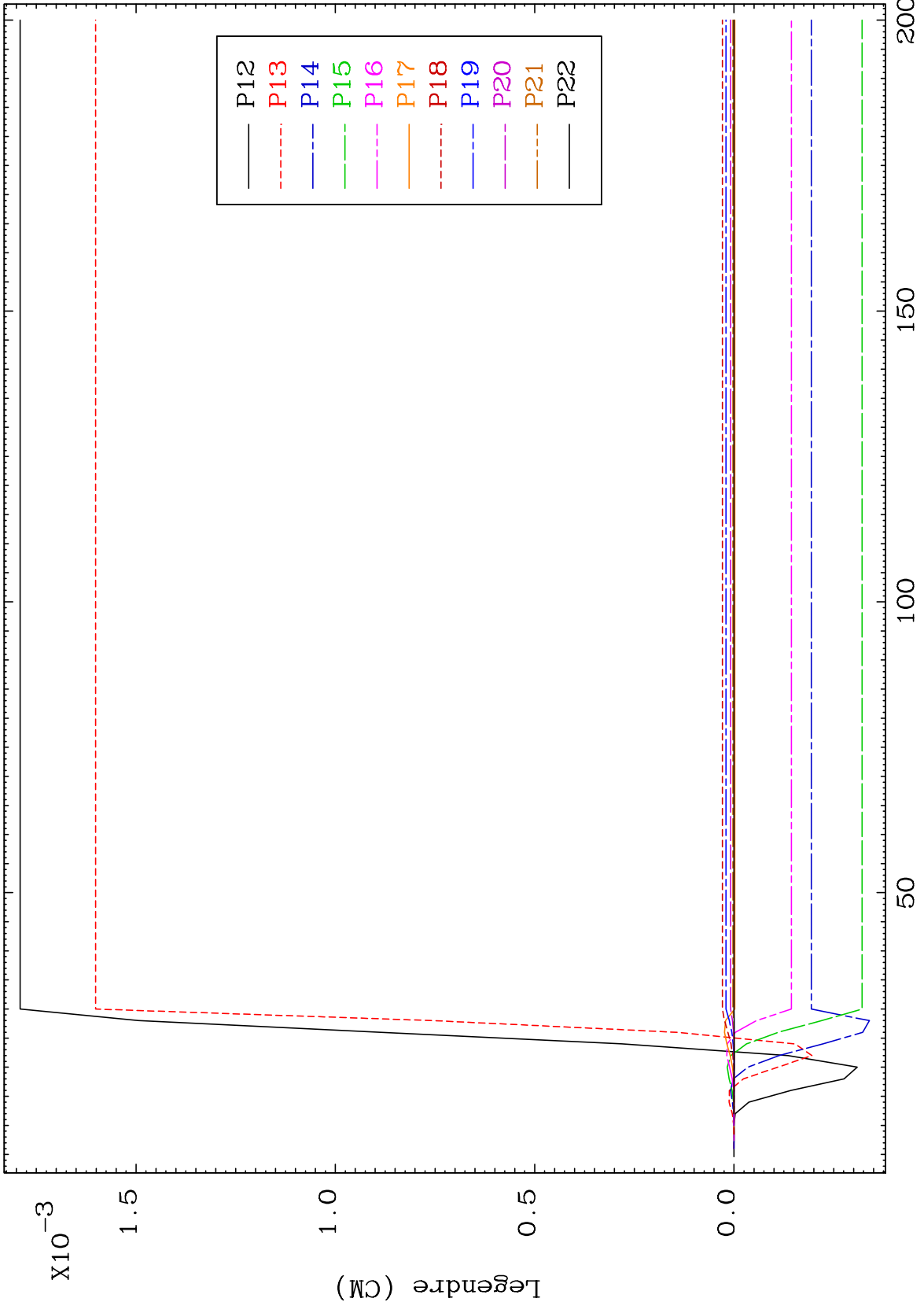
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

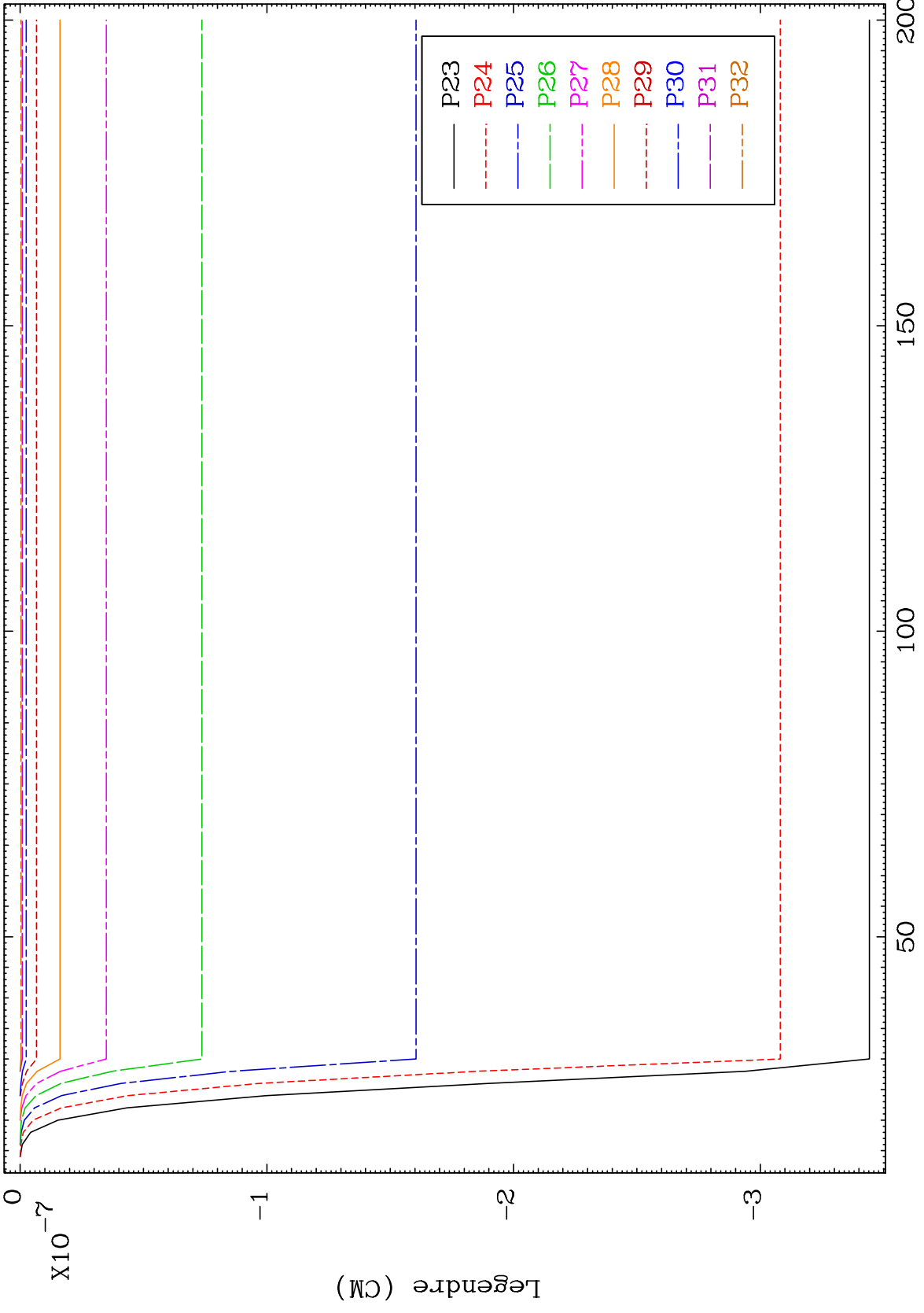


107

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 75 (n,n') Level Legendre Coefficients 42-Mo-90

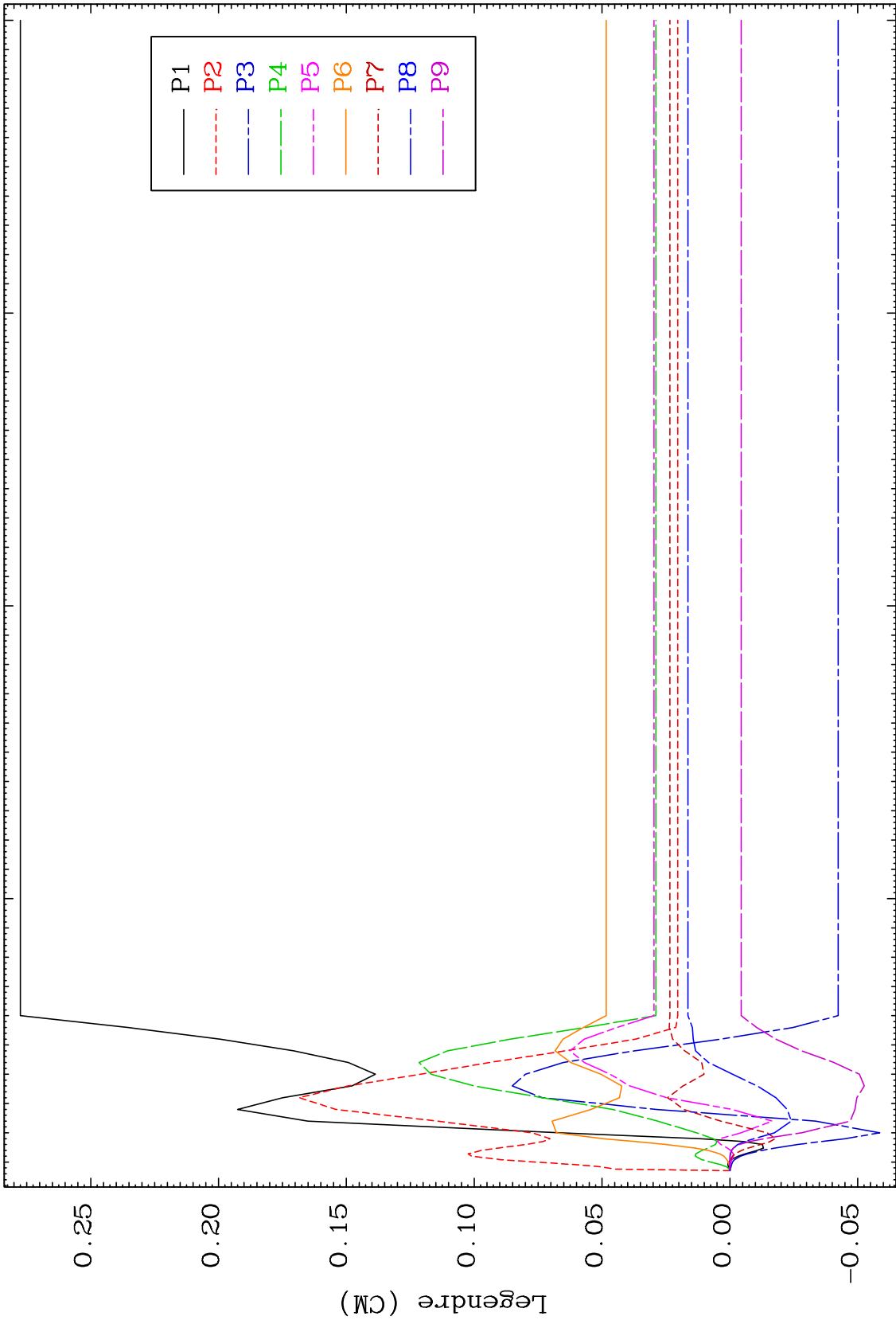


108 42-Mo-90

MAT 4219

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

42-Mo-90

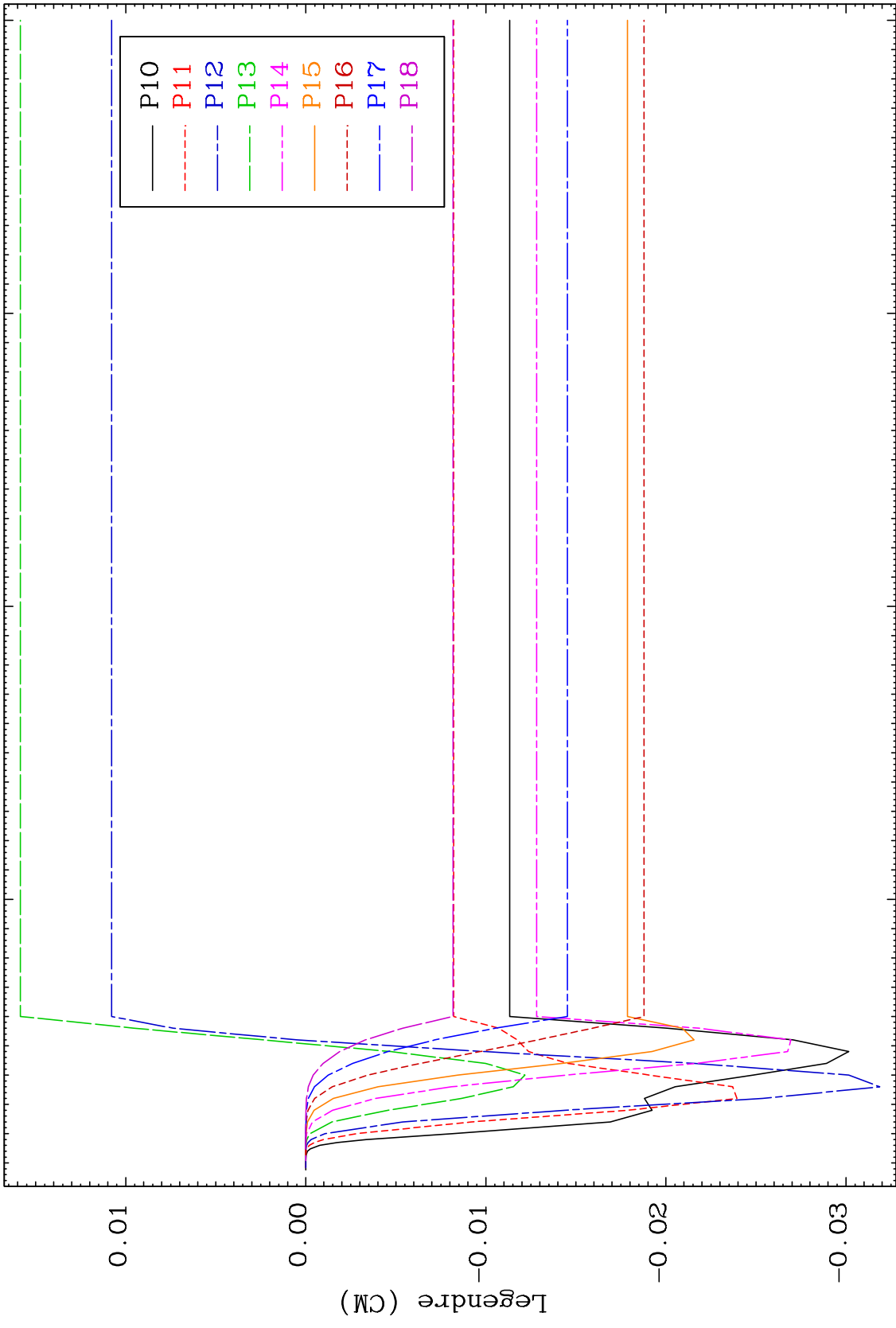


42-Mo-90

Incident Energy (MeV)

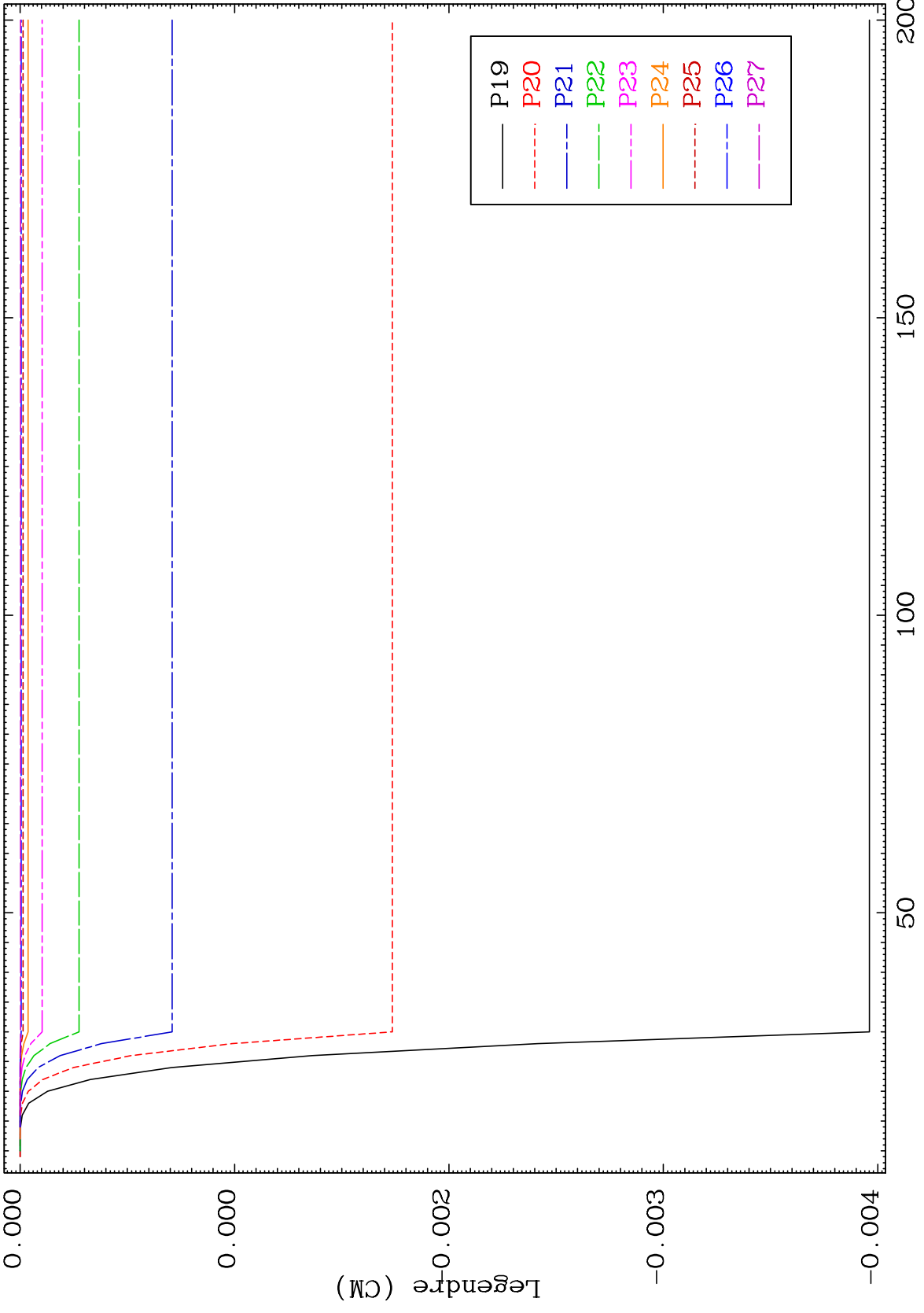
109

MAT 4219 MT= 76 (n,n') Level Legendre Coefficients 42-Mo-90

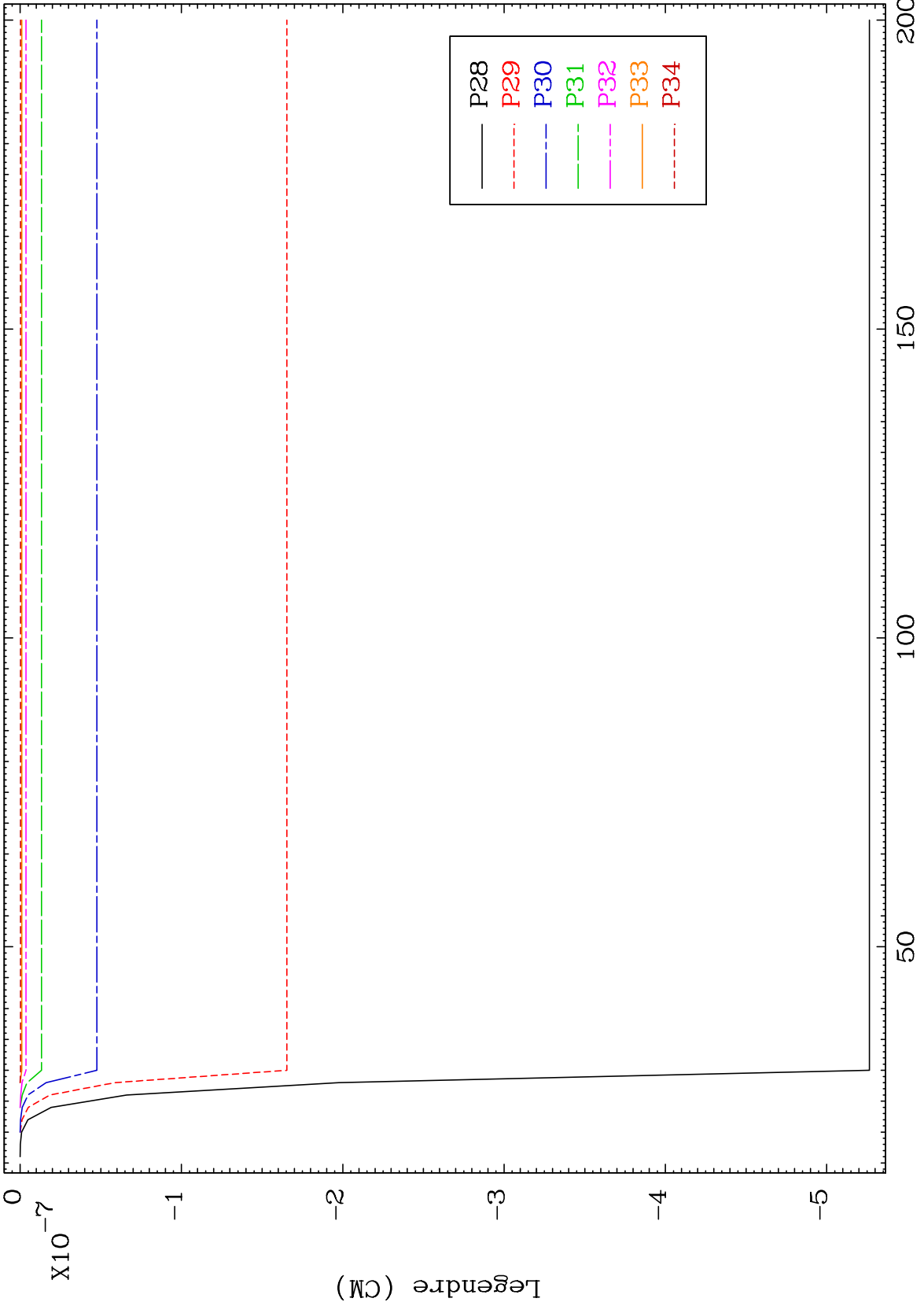


110 Incident Energy (MeV) 42-Mo-90

MAT 4219 MT= 76 (n,n') Level Legendre Coefficients 42-Mo-90



MAT 4219 MT= 76 (n,n') Level Legendre Coefficients 42-Mo-90

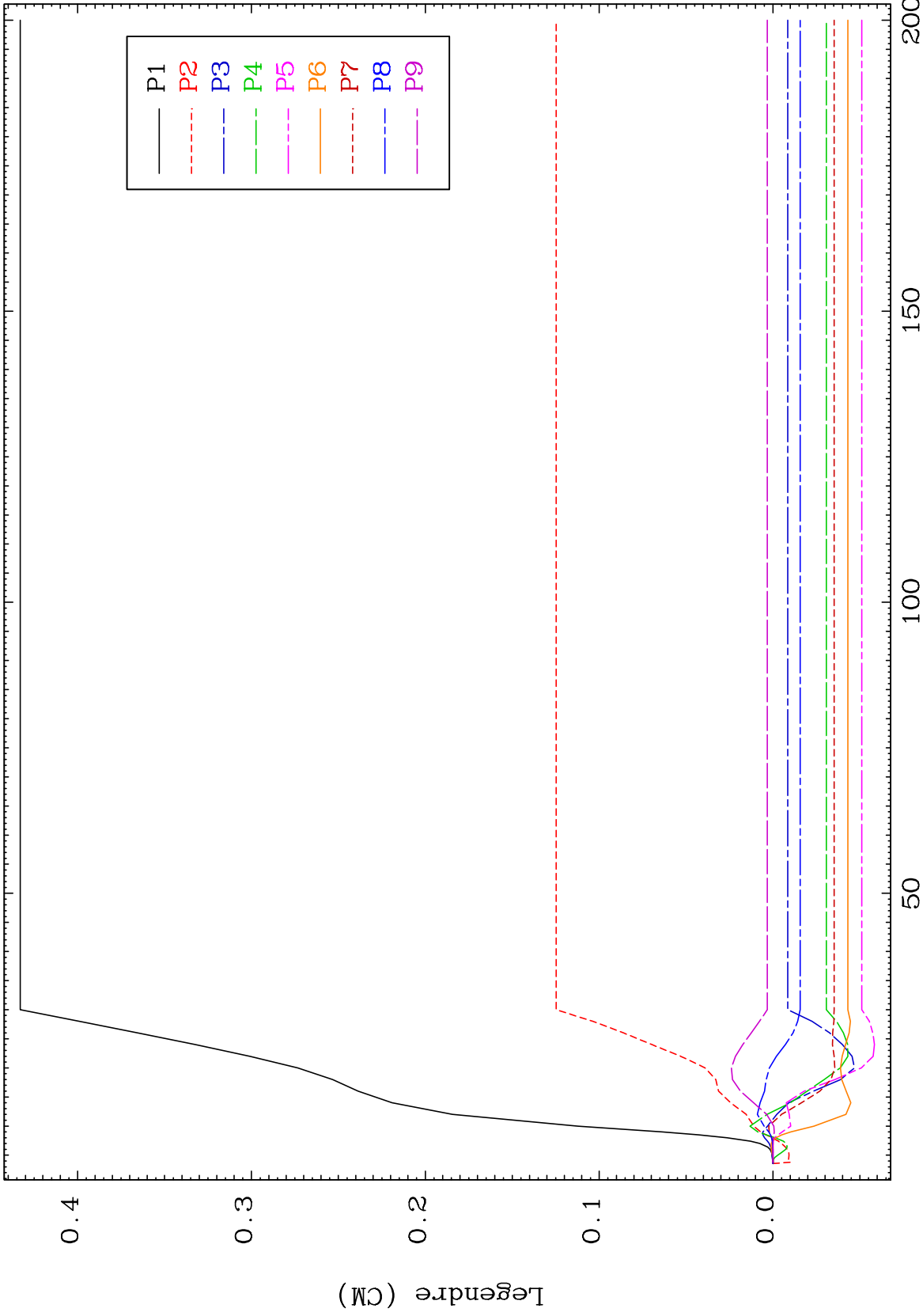


112 42-Mo-90

MAT 4219

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

42-Mo-90



113

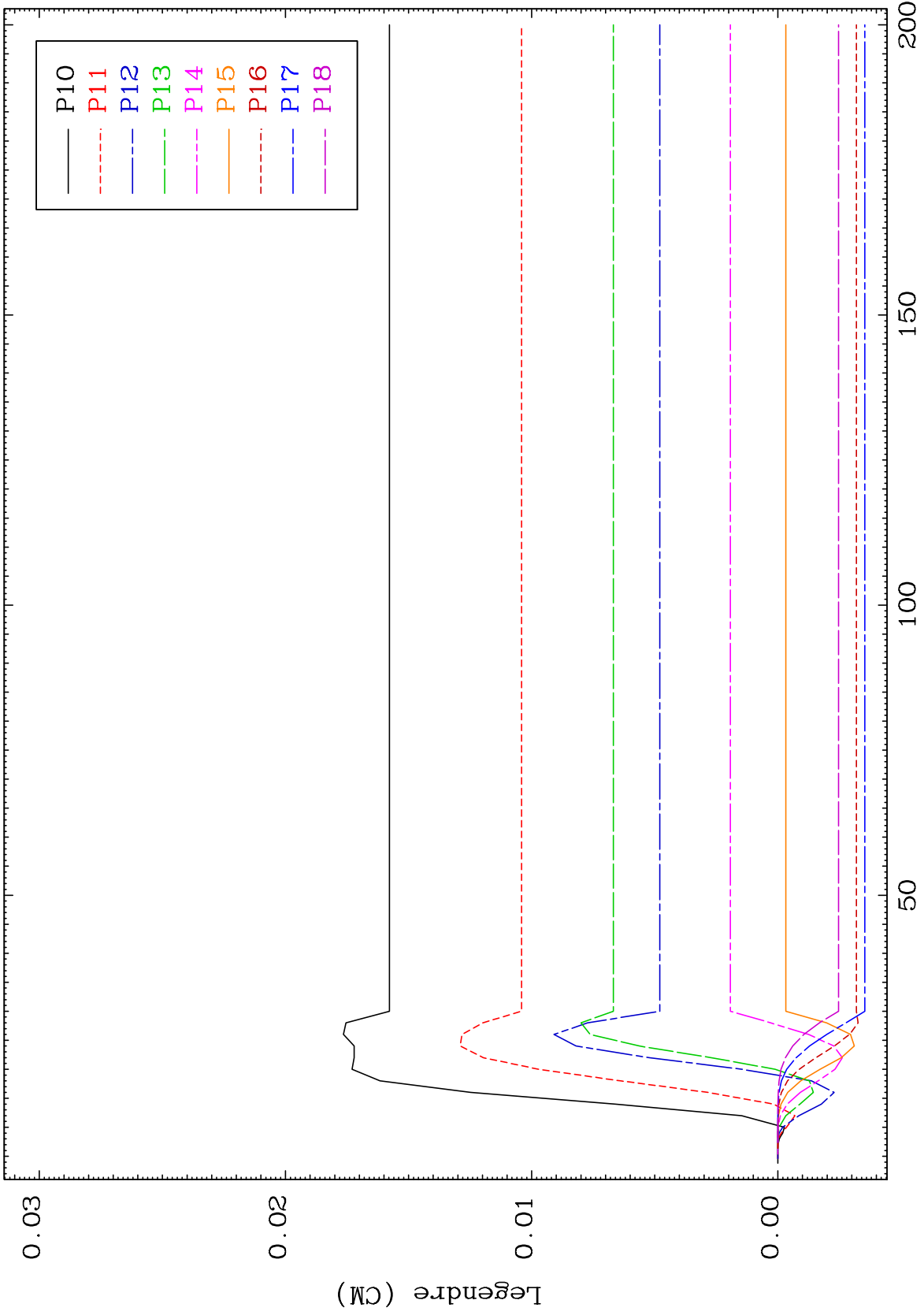
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

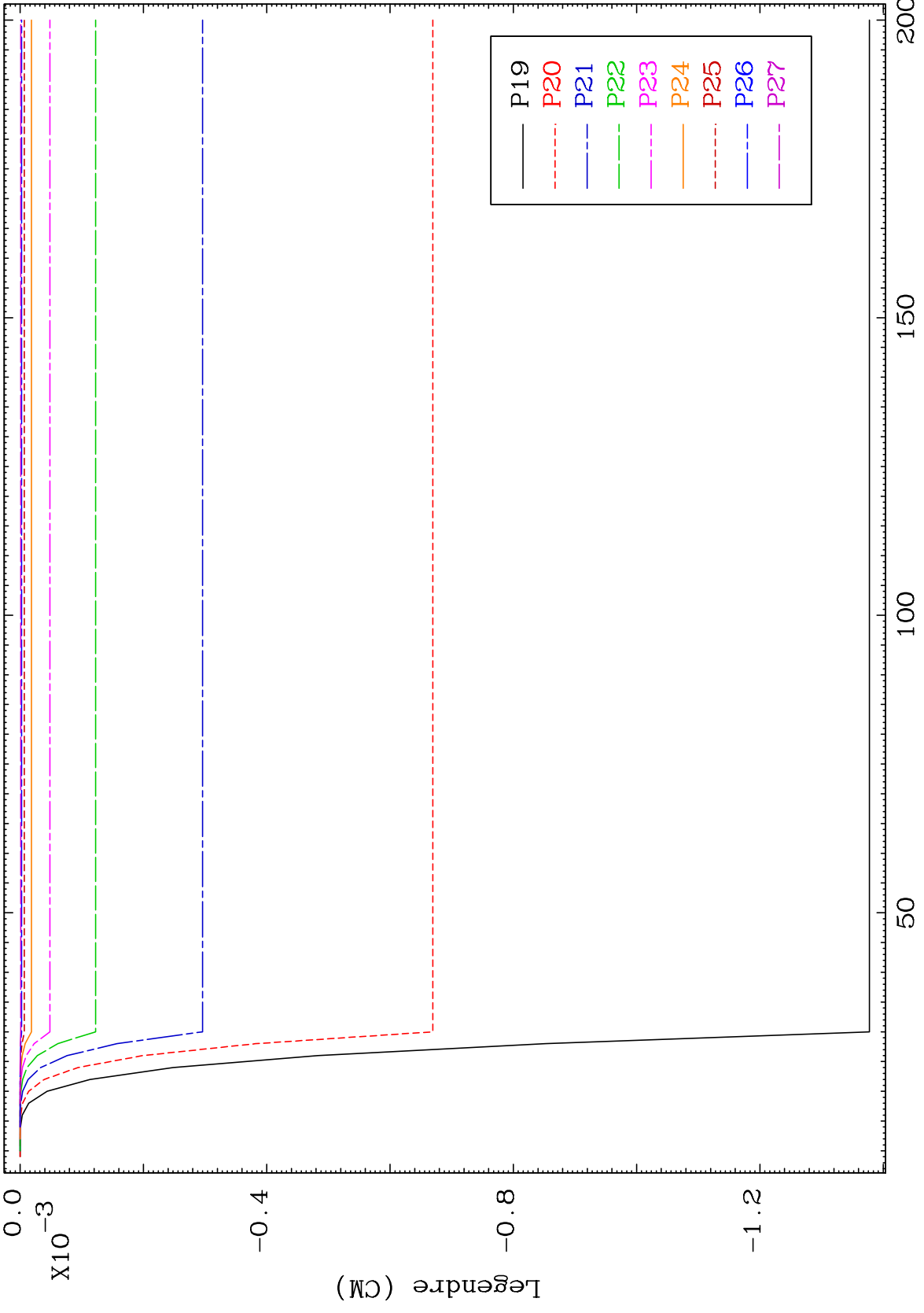


114

Incident Energy (MeV)

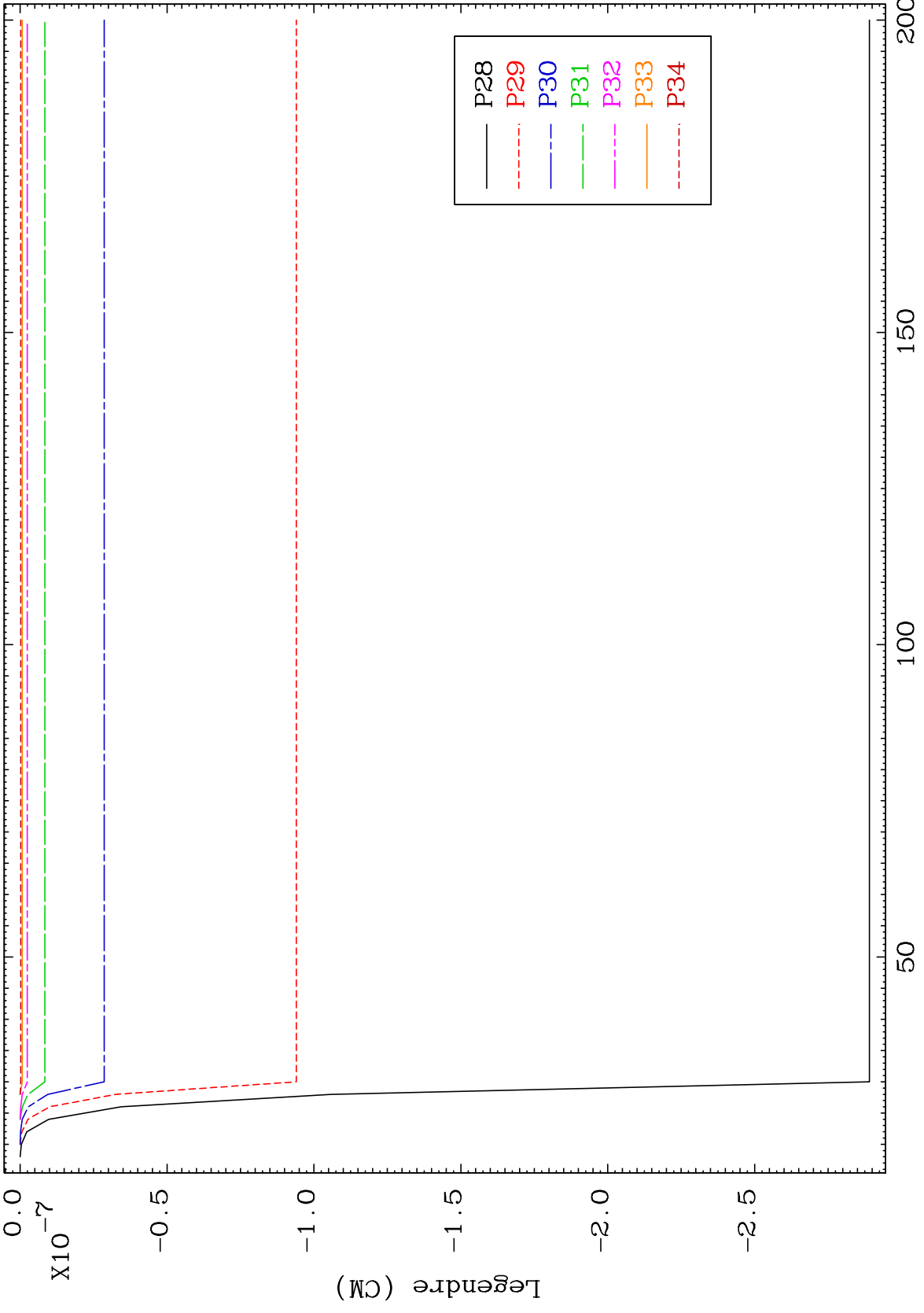
42-Mo-90

MAT 4219 MT= 77 (n,n') Level Legendre Coefficients 42-Mo-90



115 Incident Energy (MeV) 42-Mo-90

MAT 4219 MT= 77 (n,n') Level Legendre Coefficients 42-Mo-90

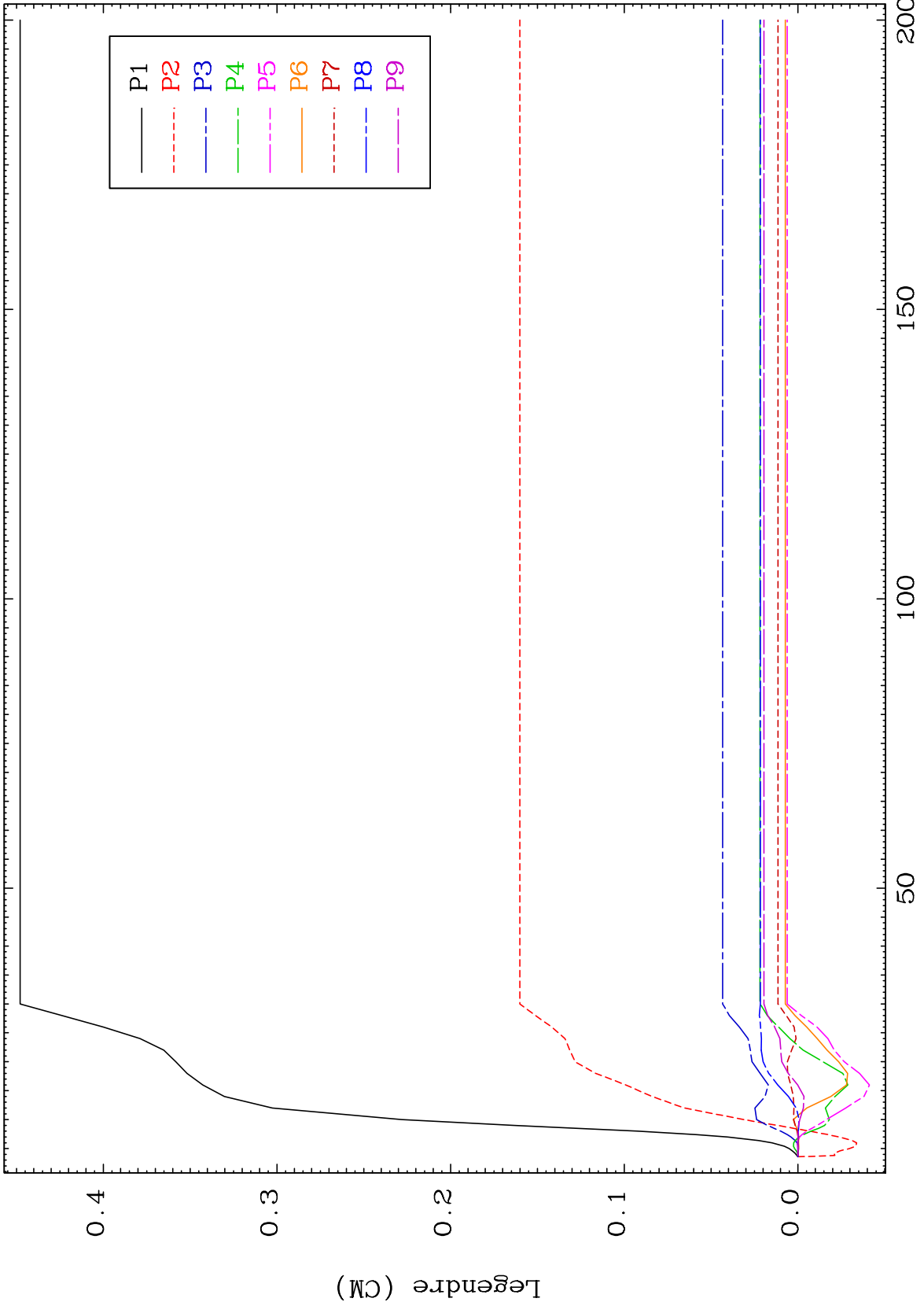


116 42-Mo-90

MAT 4219

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

42-Mo-90



117

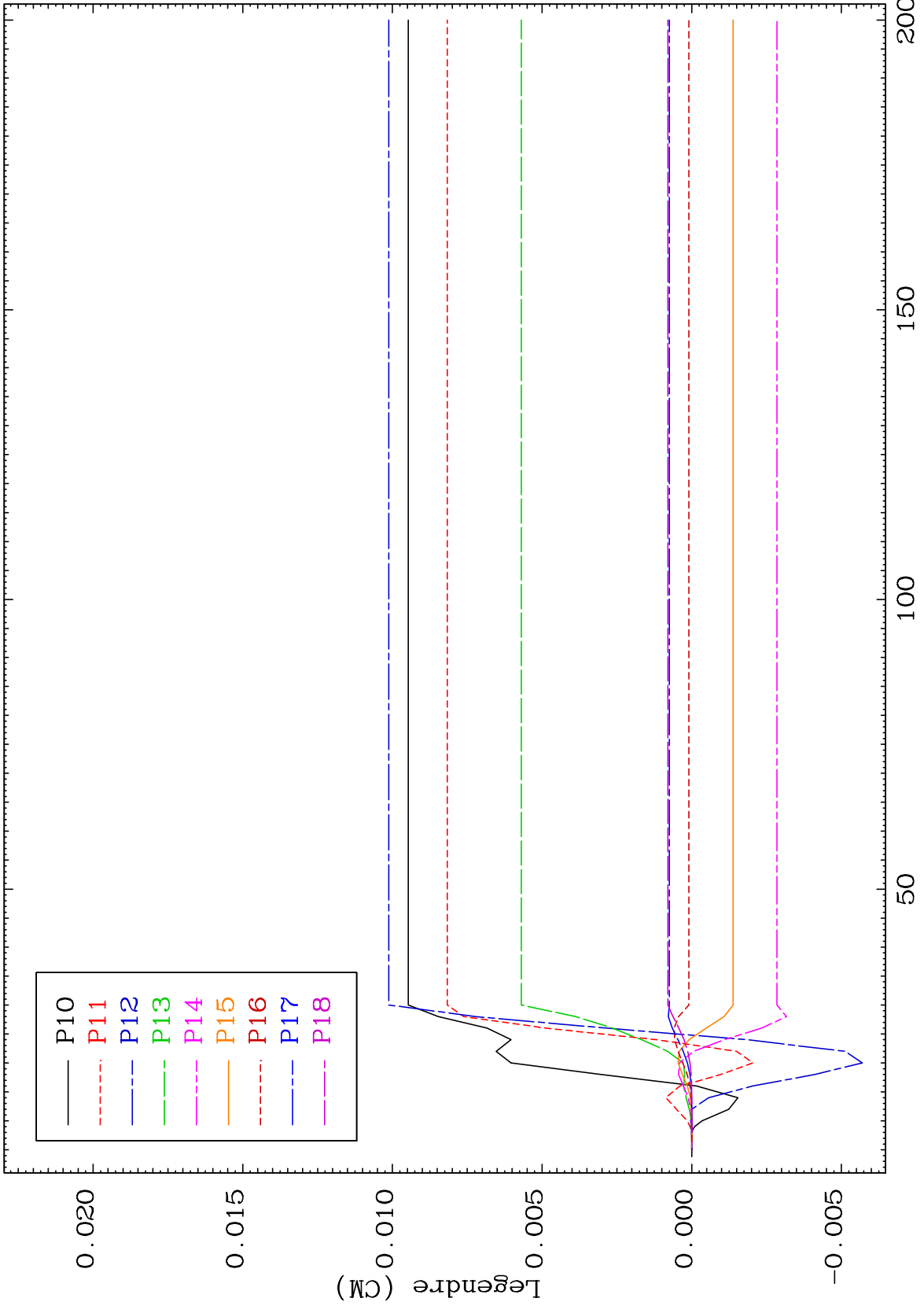
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

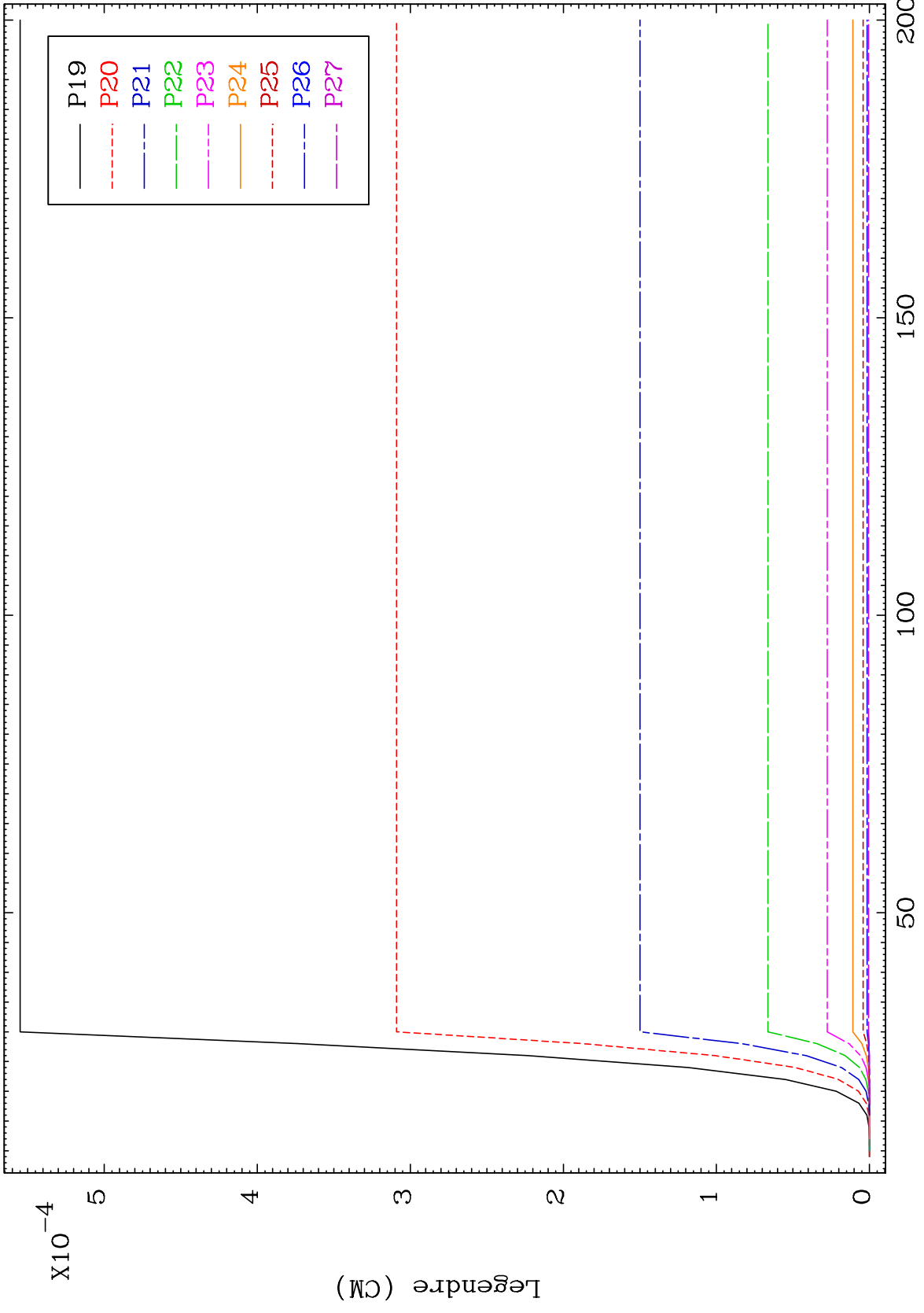
42-Mo-90



118

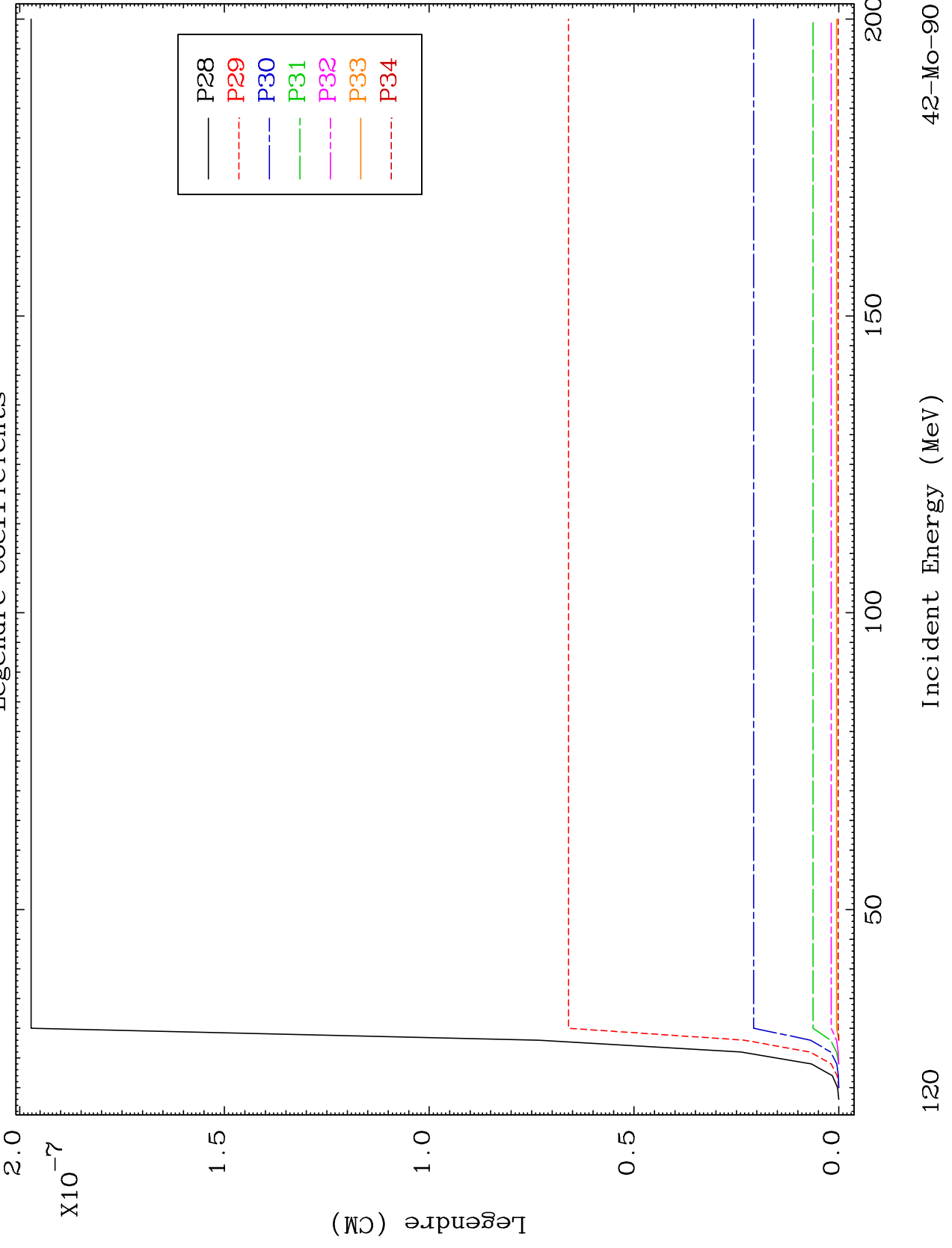
42-Mo-90

MAT 4219 MT= 78 (n,n') Level Legendre Coefficients 42-Mo-90



119 42-Mo-90

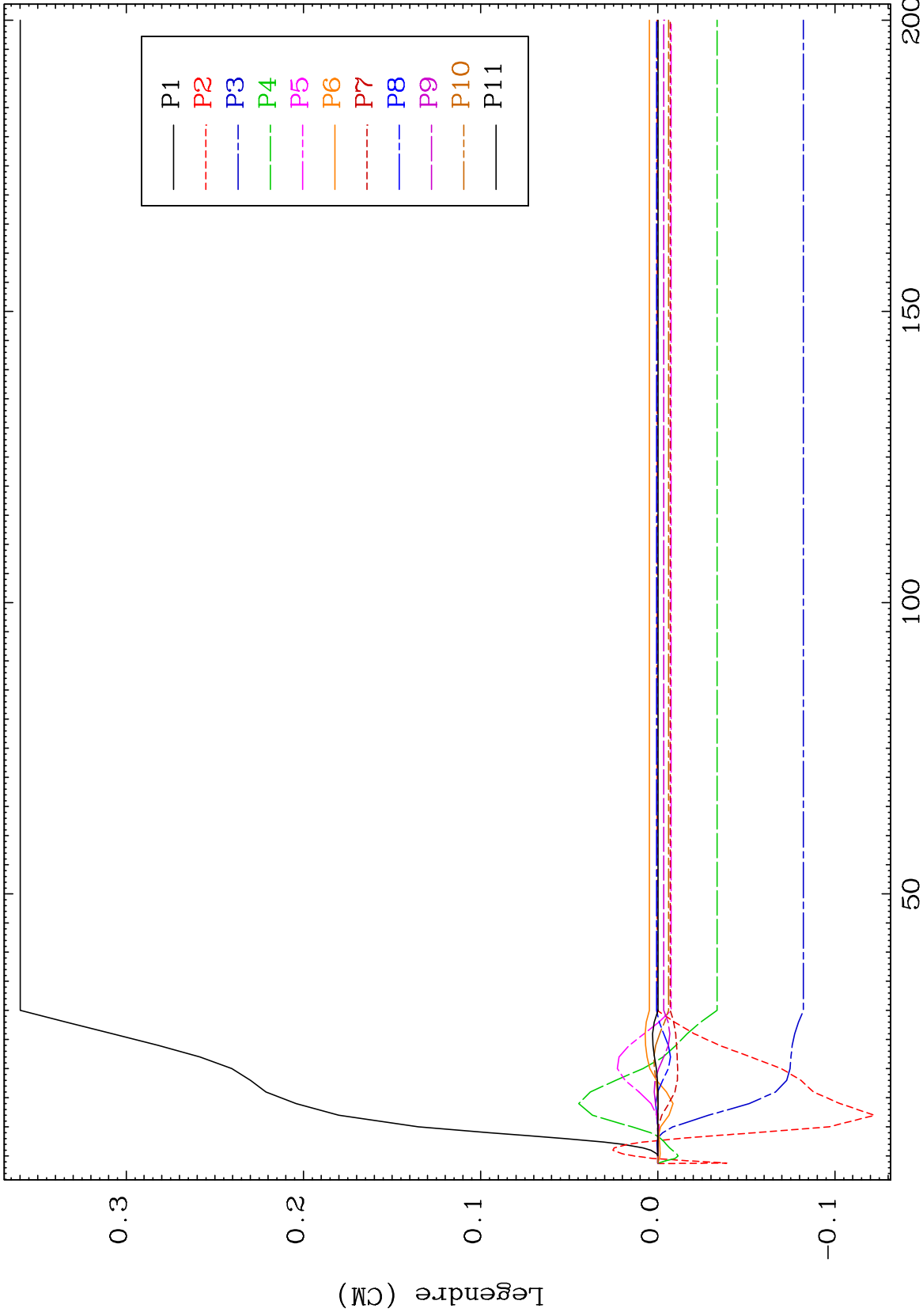
MAT 4219 MT= 78 (n,n') Level Legendre Coefficients 42-Mo-90



MAT 4219

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

42-Mo-90



121

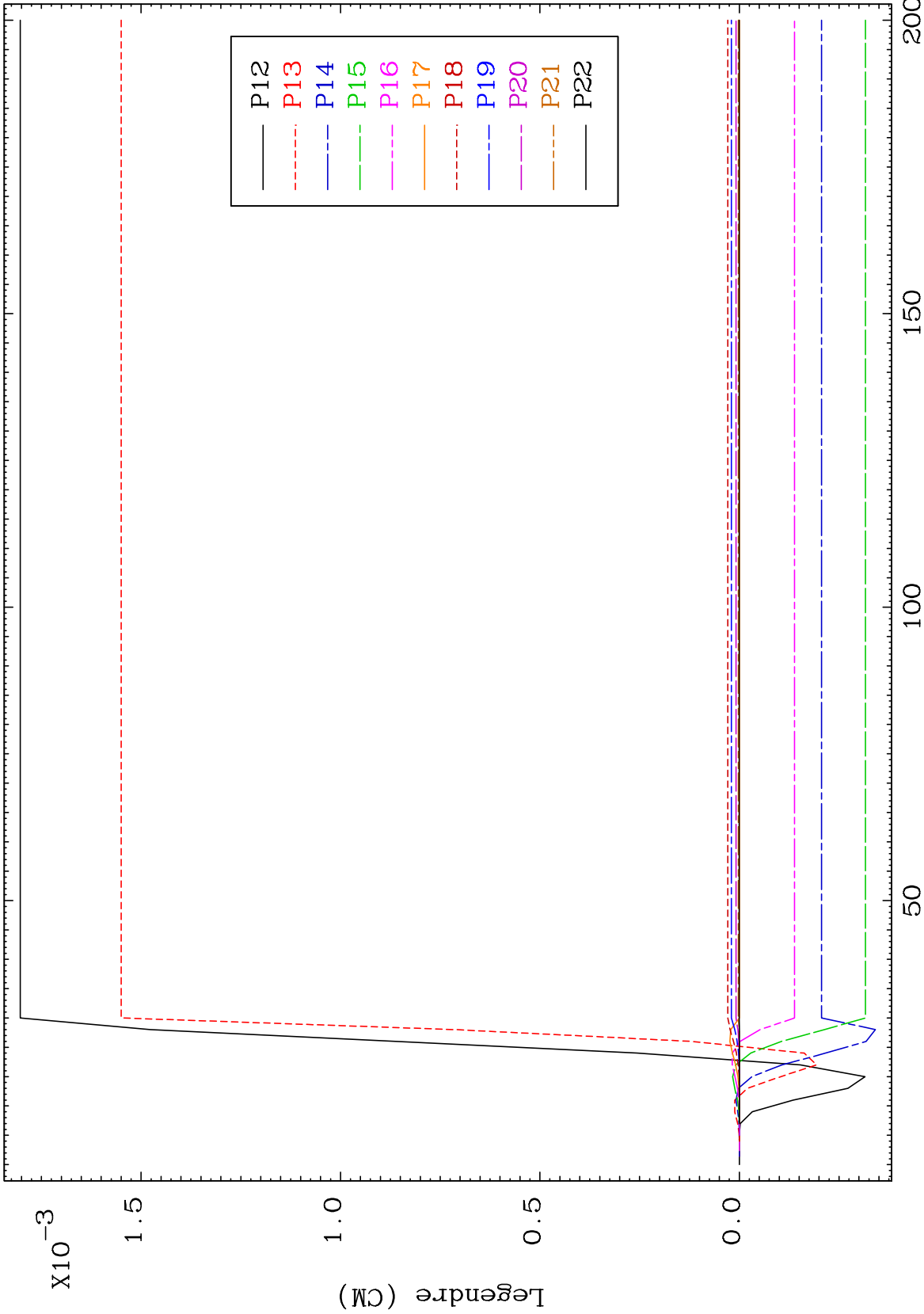
Incident Energy (MeV)

42-Mo-90

MAT 4219

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

42-Mo-90

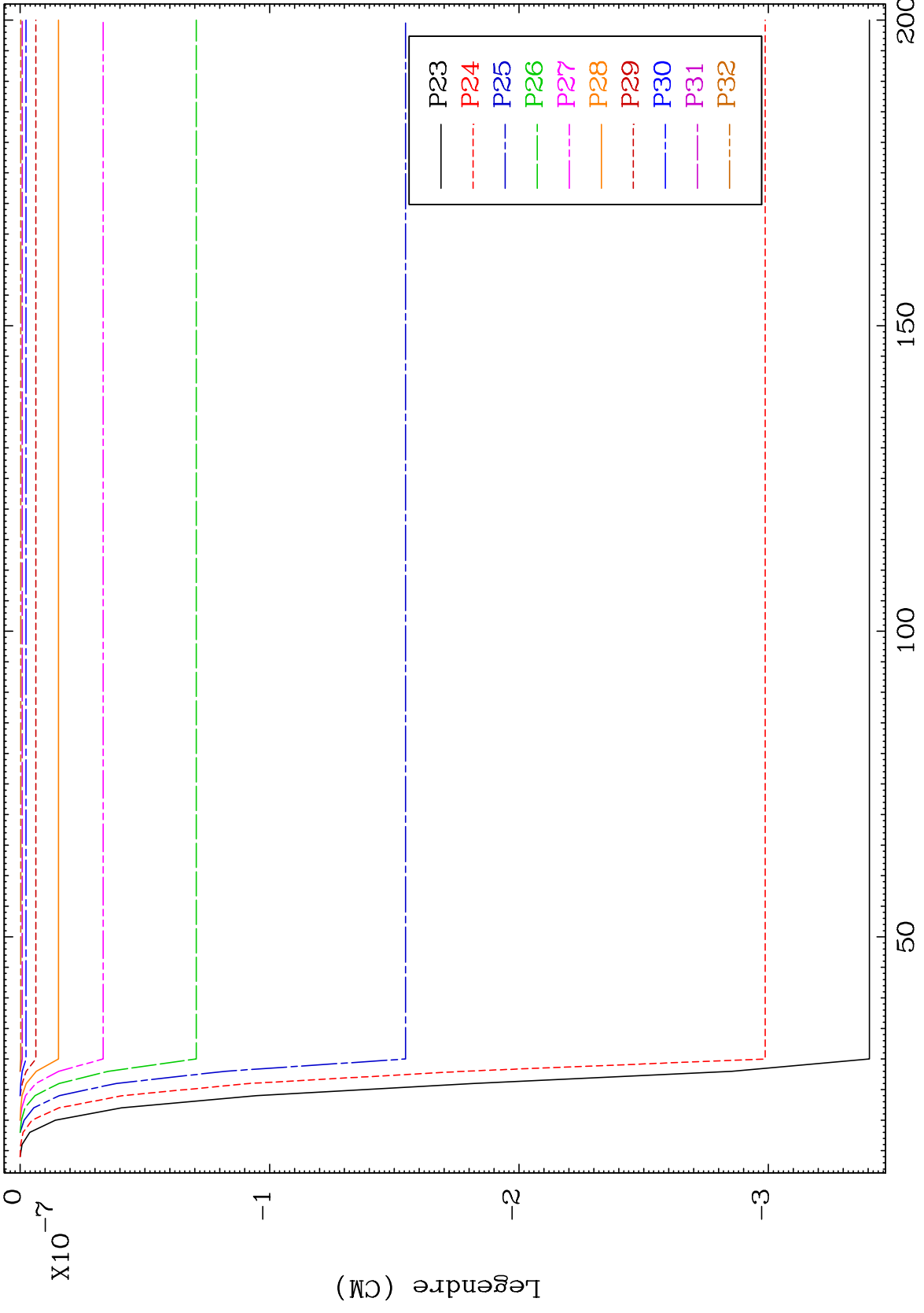


122

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 79 (n,n') Level Legendre Coefficients 42-Mo-90

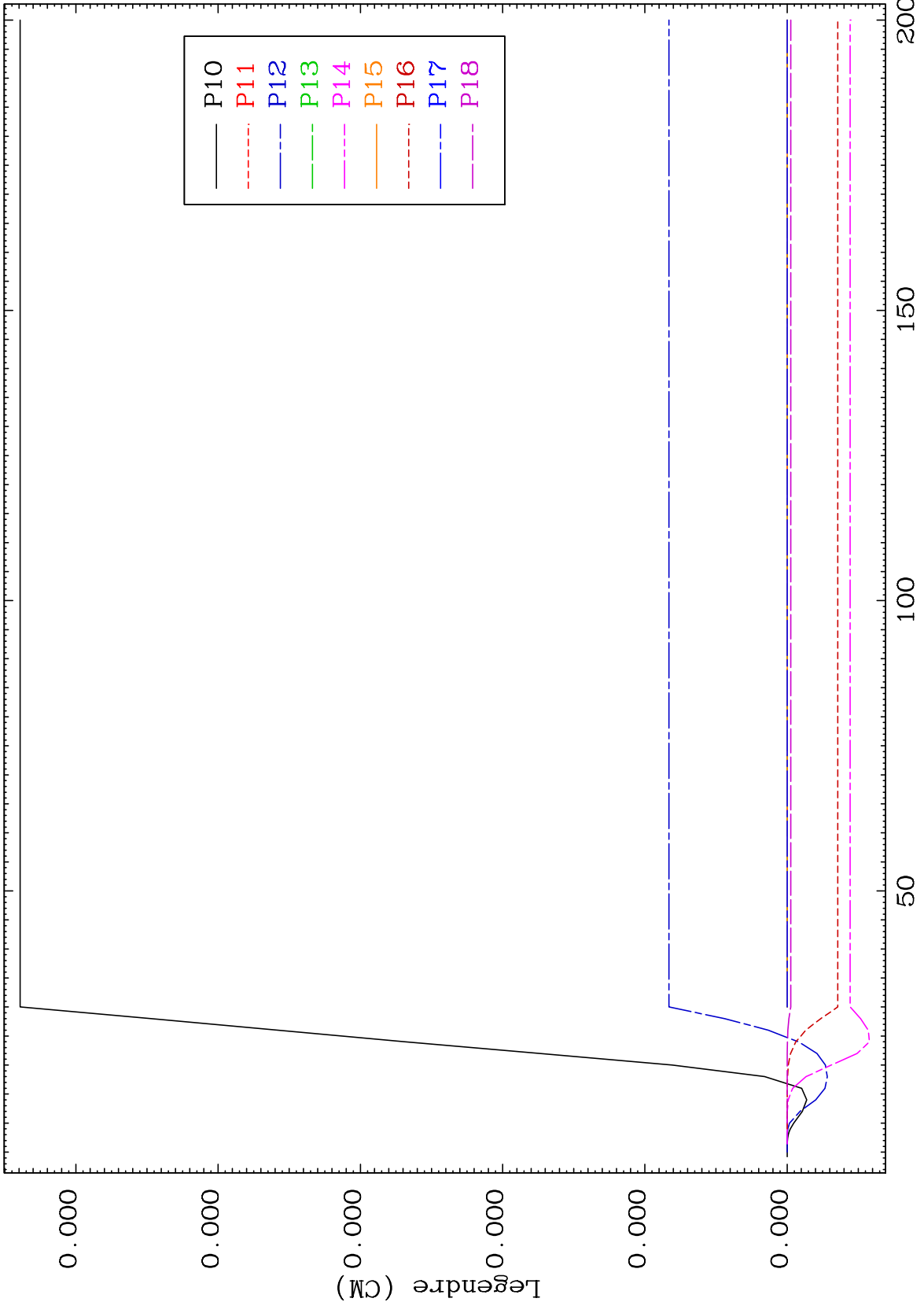




MAT 4219

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

42-Mo-90

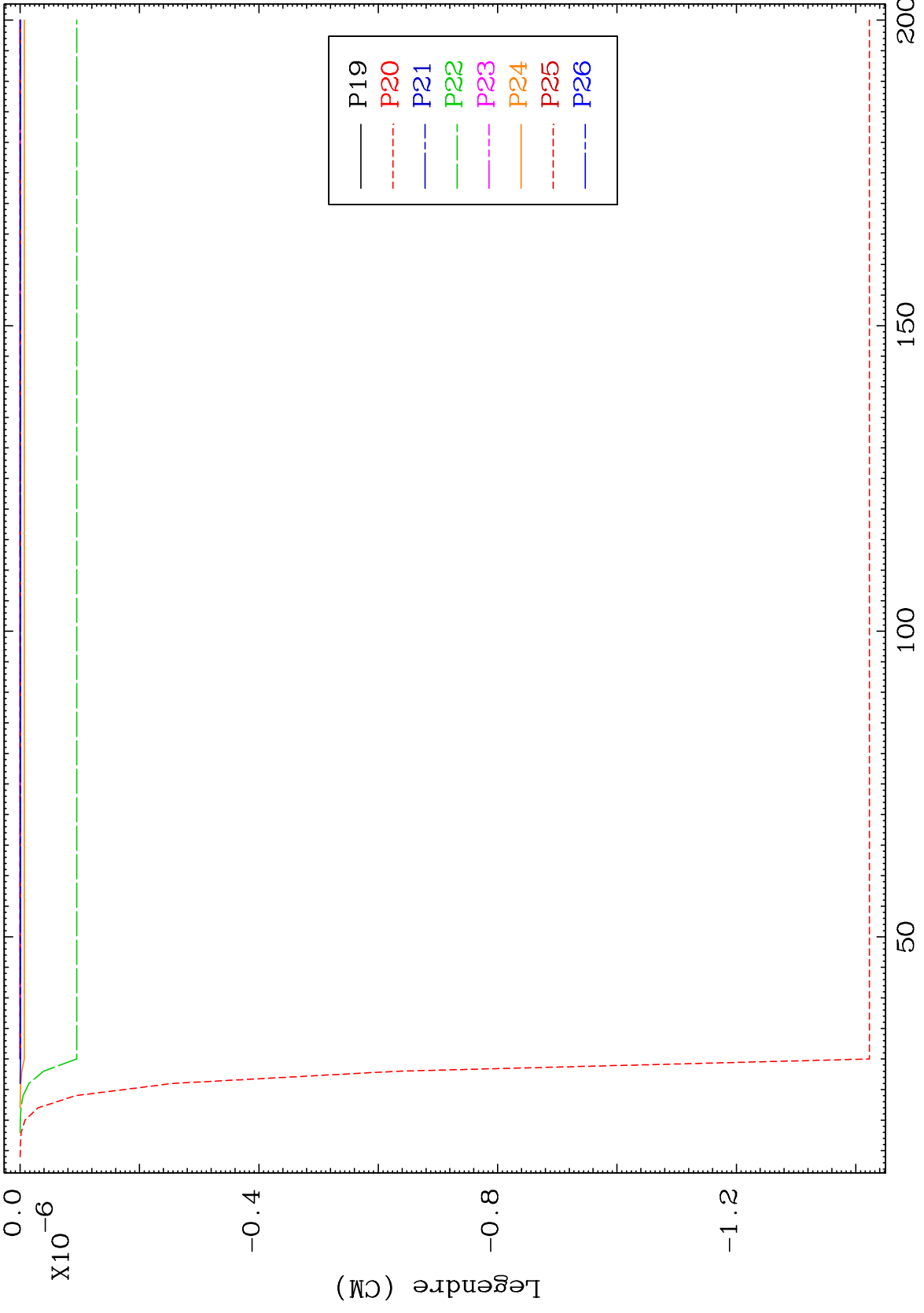


125

Incident Energy (MeV)

42-Mo-90

MAT 4219 MT= 80 (n,n') Level Legendre Coefficients 42-Mo-90



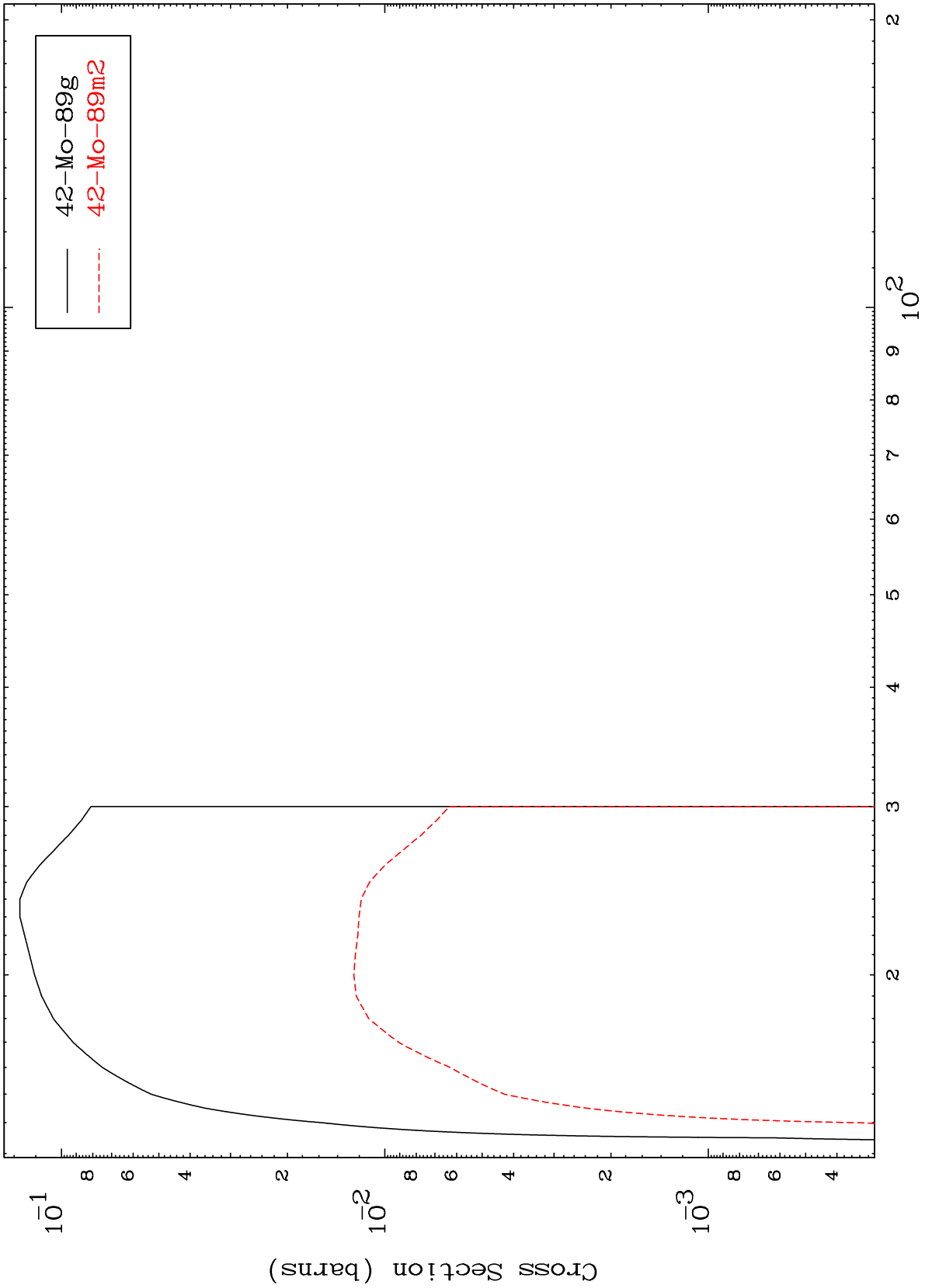
126 42-Mo-90

MAT 4219

(n,2n)

42-Mo-90

Radionuclide Production Cross Section



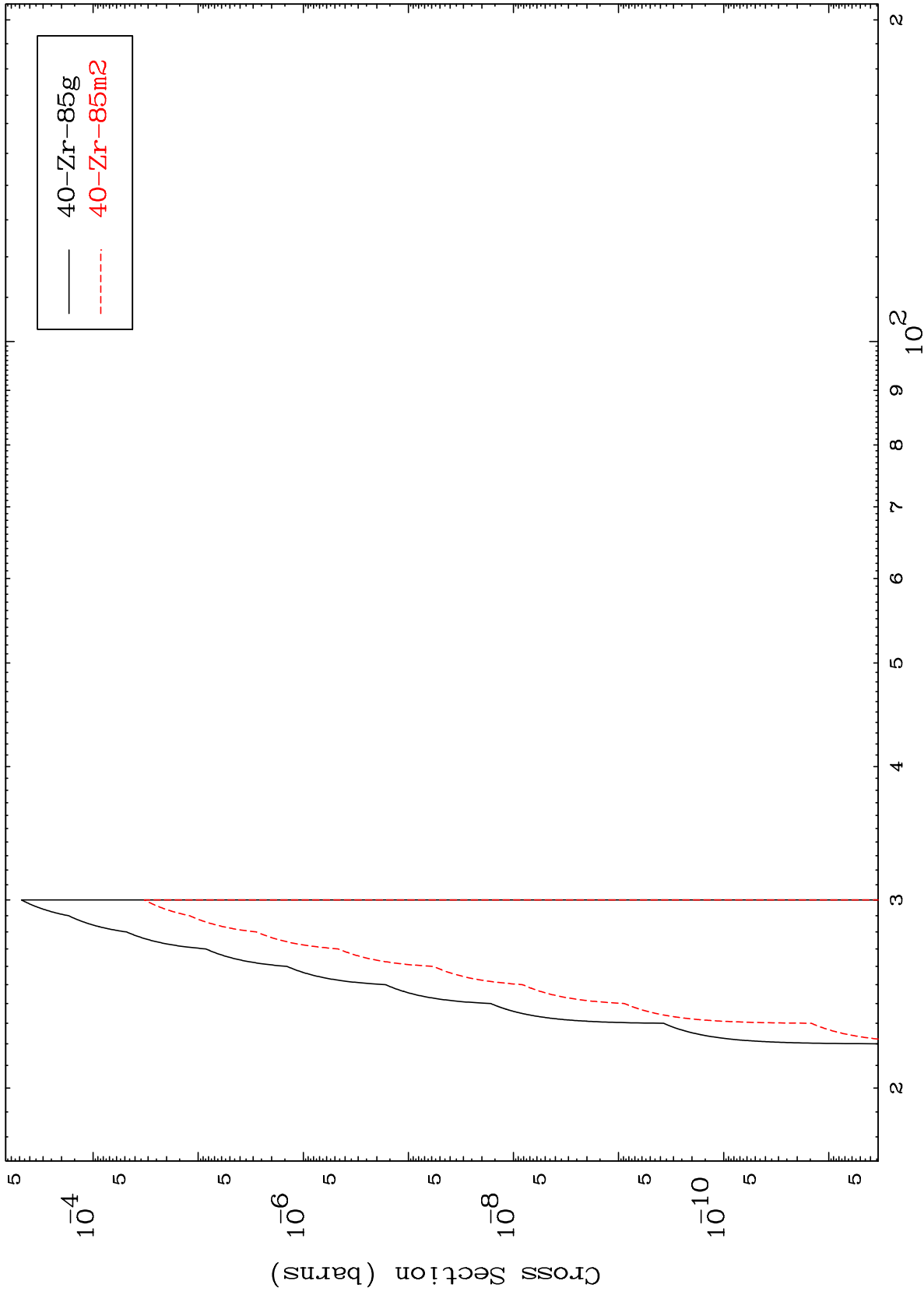
42-Mo-89g  
42-Mo-89m2

127

Incident Energy (MeV)

42-Mo-90

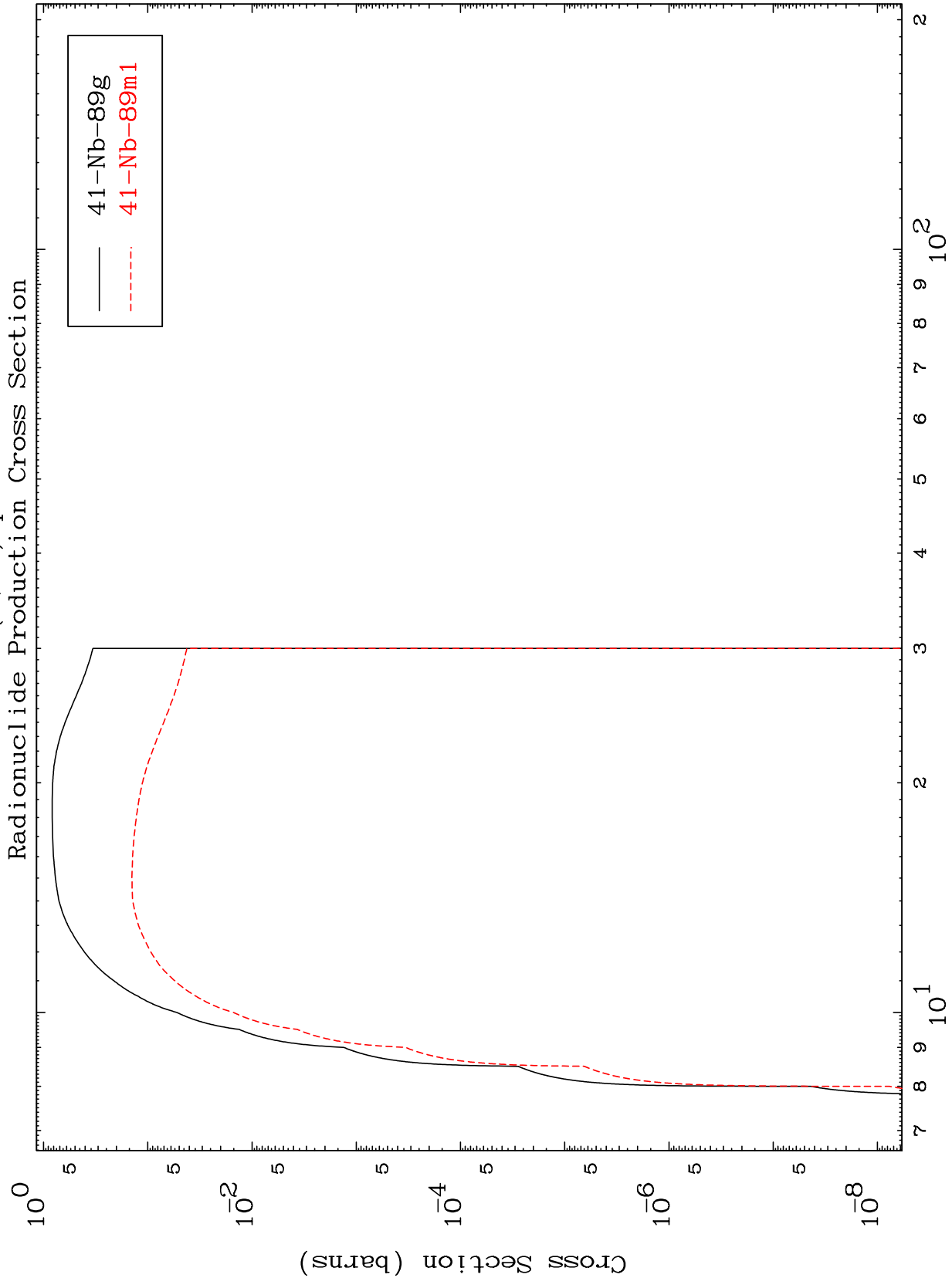
Radionuclide Production Cross Section



MAT 4219

(n,n') p

42-Mo-90



129

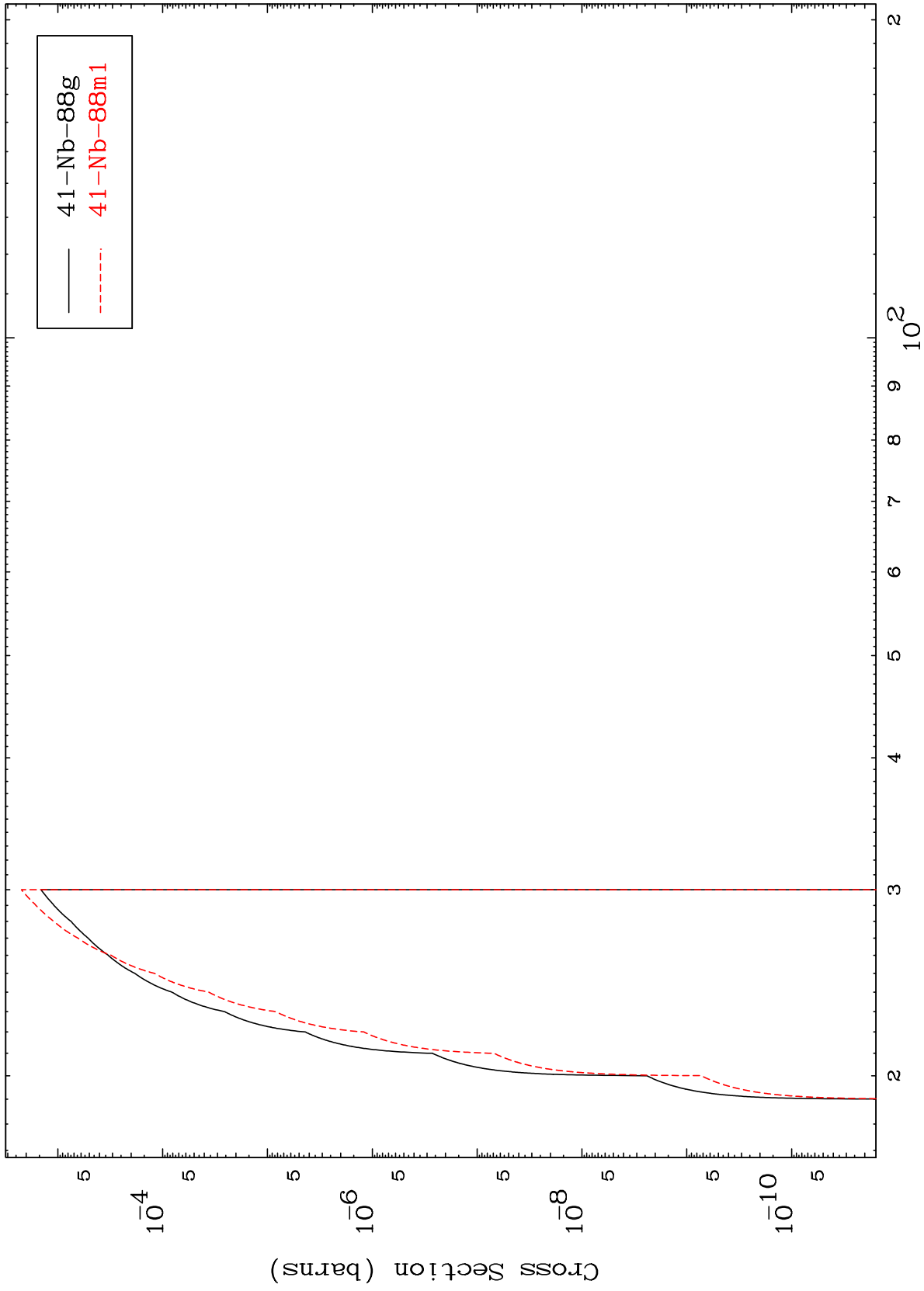
42-Mo-90

MAT 4219

(n,n') d

42-Mo-90

Radionuclide Production Cross Section



130

Incident Energy (MeV)

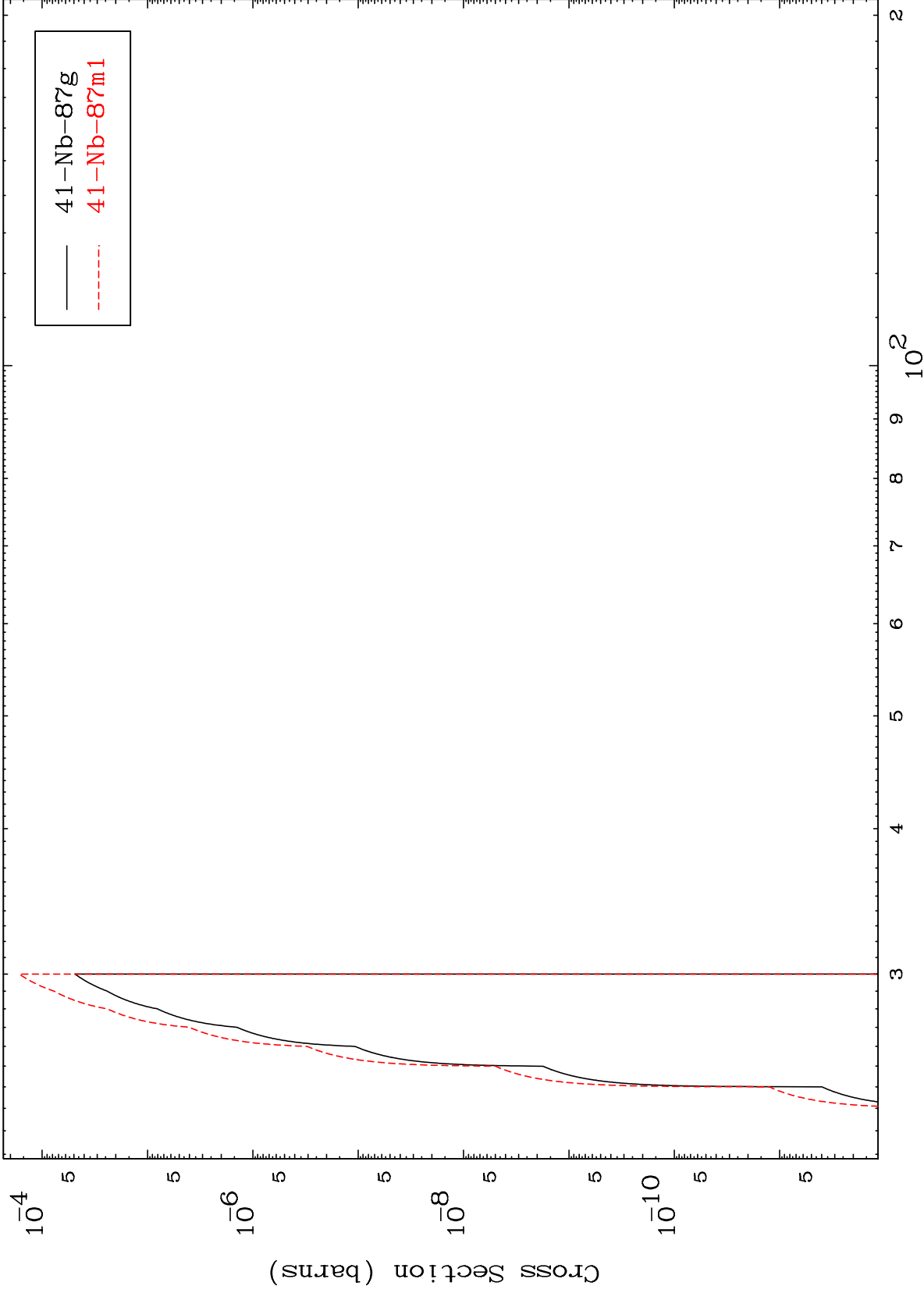
42-Mo-90

MAT 4219

(n,n') t

42-Mo-90

Radionuclide Production Cross Section



131

Incident Energy (MeV)

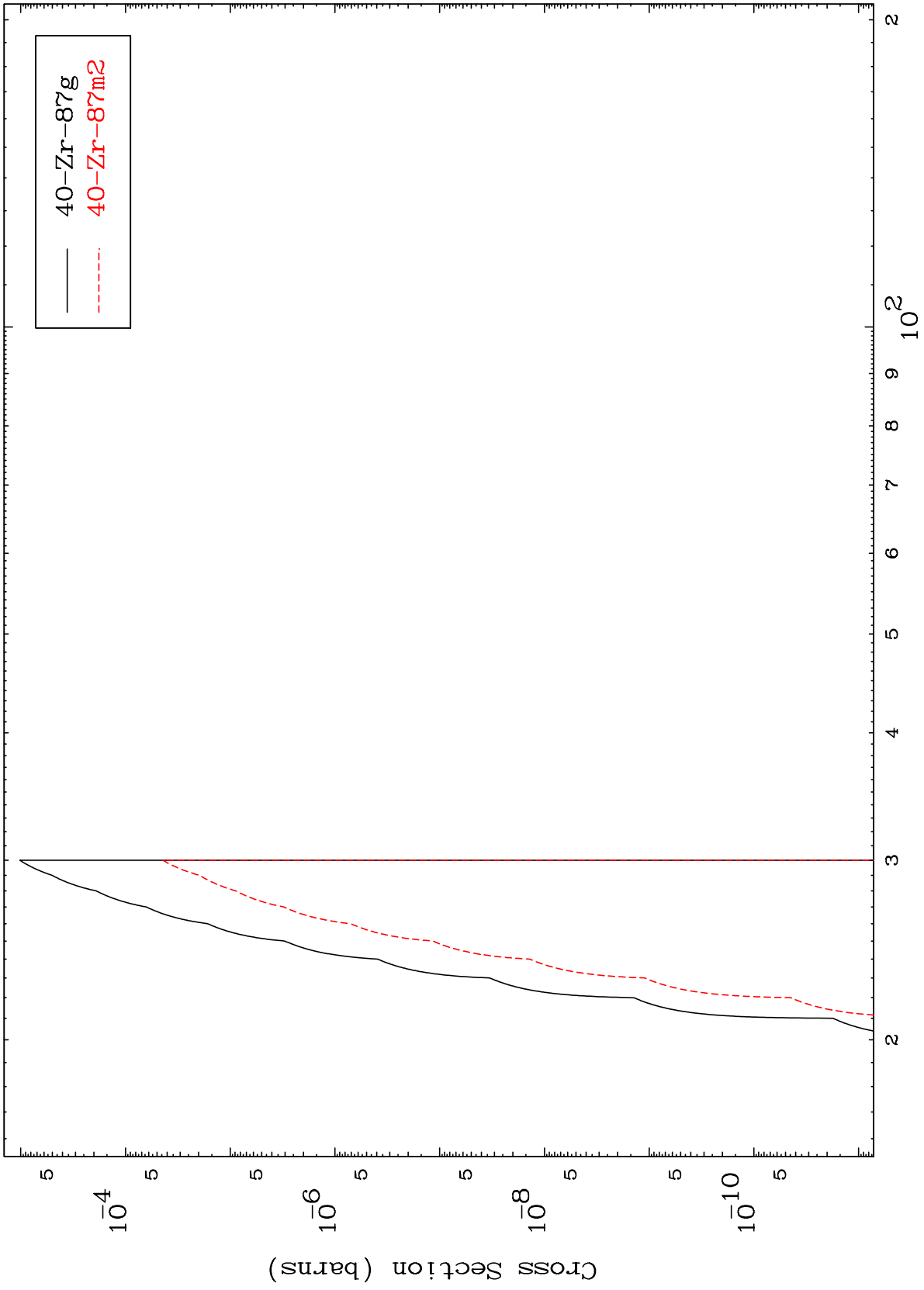
42-Mo-90

MAT 4219

(n, n') He-3

42-Mo-90

Radionuclide Production Cross Section

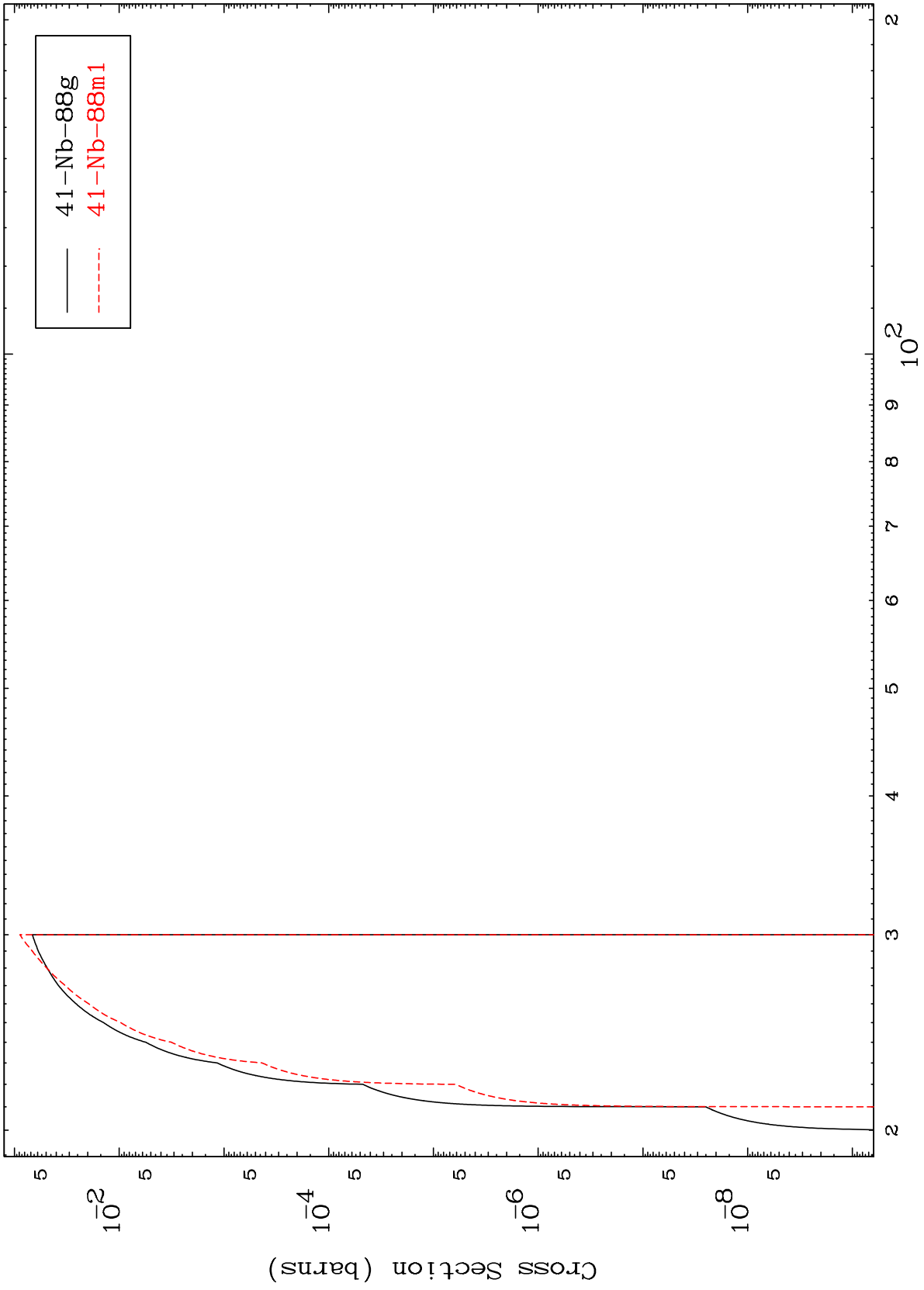


132

Incident Energy (MeV)

42-Mo-90

(n,2n) p  
Radionuclide Production Cross Section

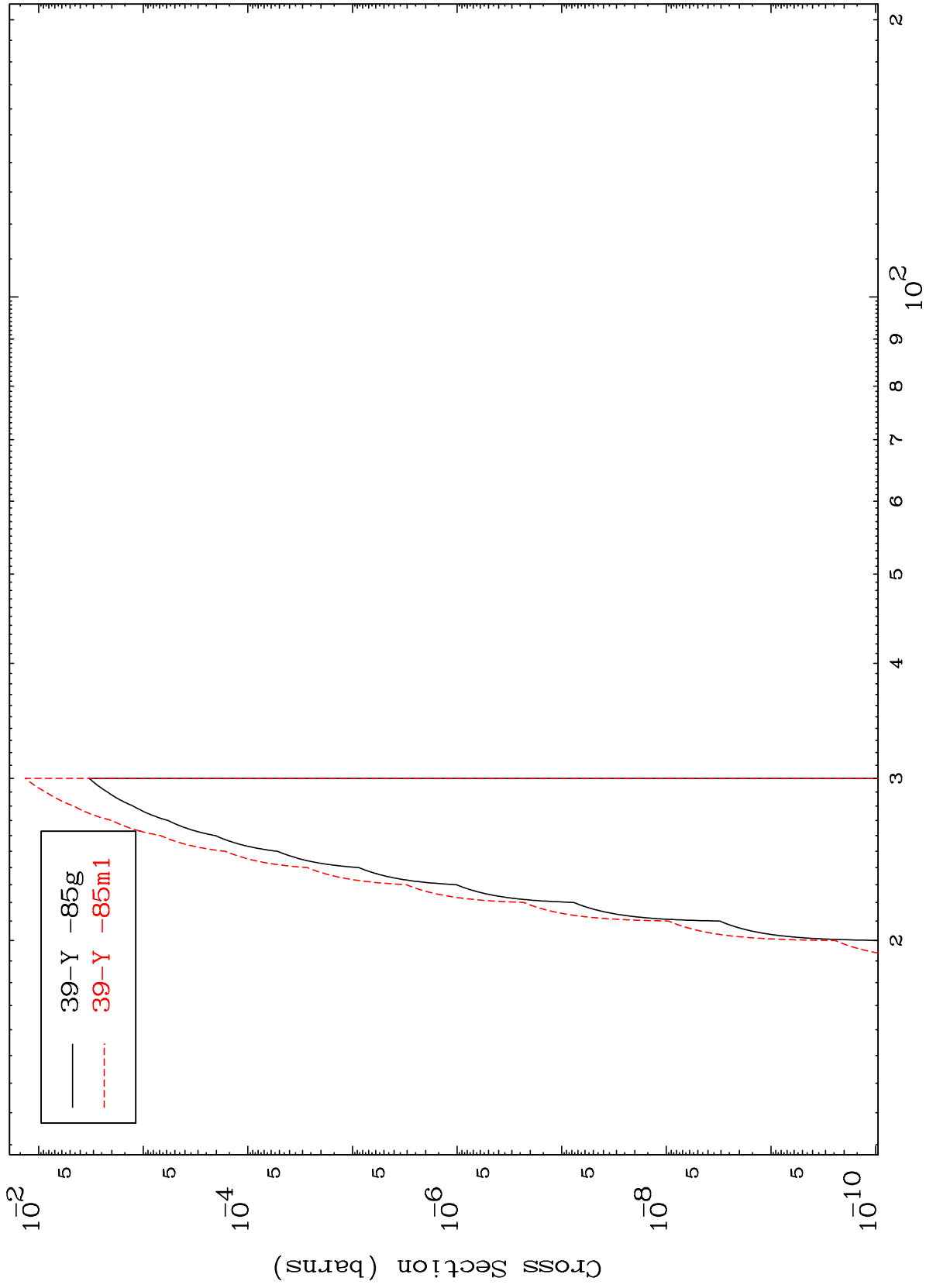


MAT 4219

(n,n') p  $\alpha$

42-Mo-90

Radionuclide Production Cross Section



39-Y -85g  
39-Y -85m1

134

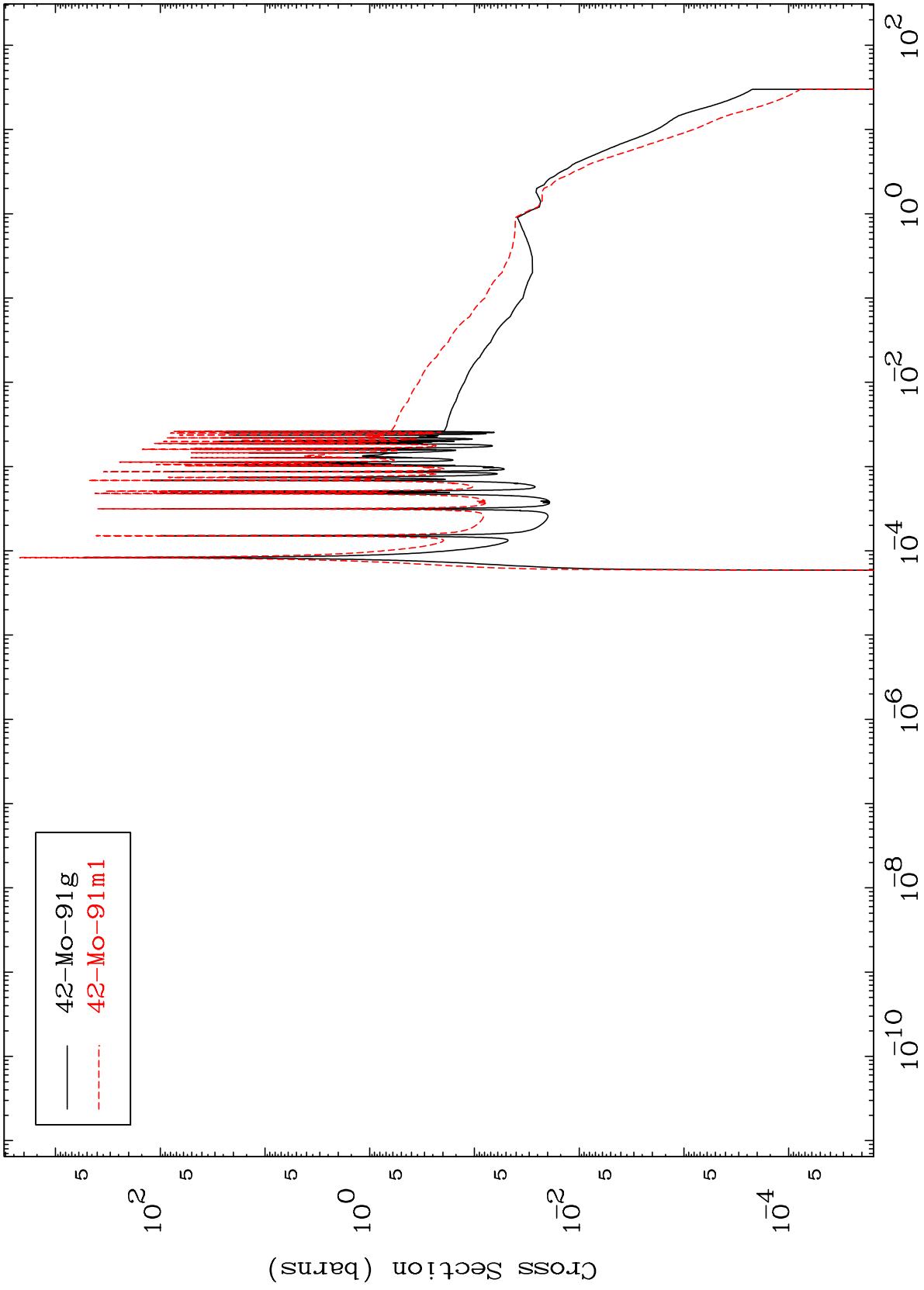
Incident Energy (MeV)

42-Mo-90

MAT 4219

42-Mo-90

Radionuclide Production Cross Section  
(n,  $\gamma$ )



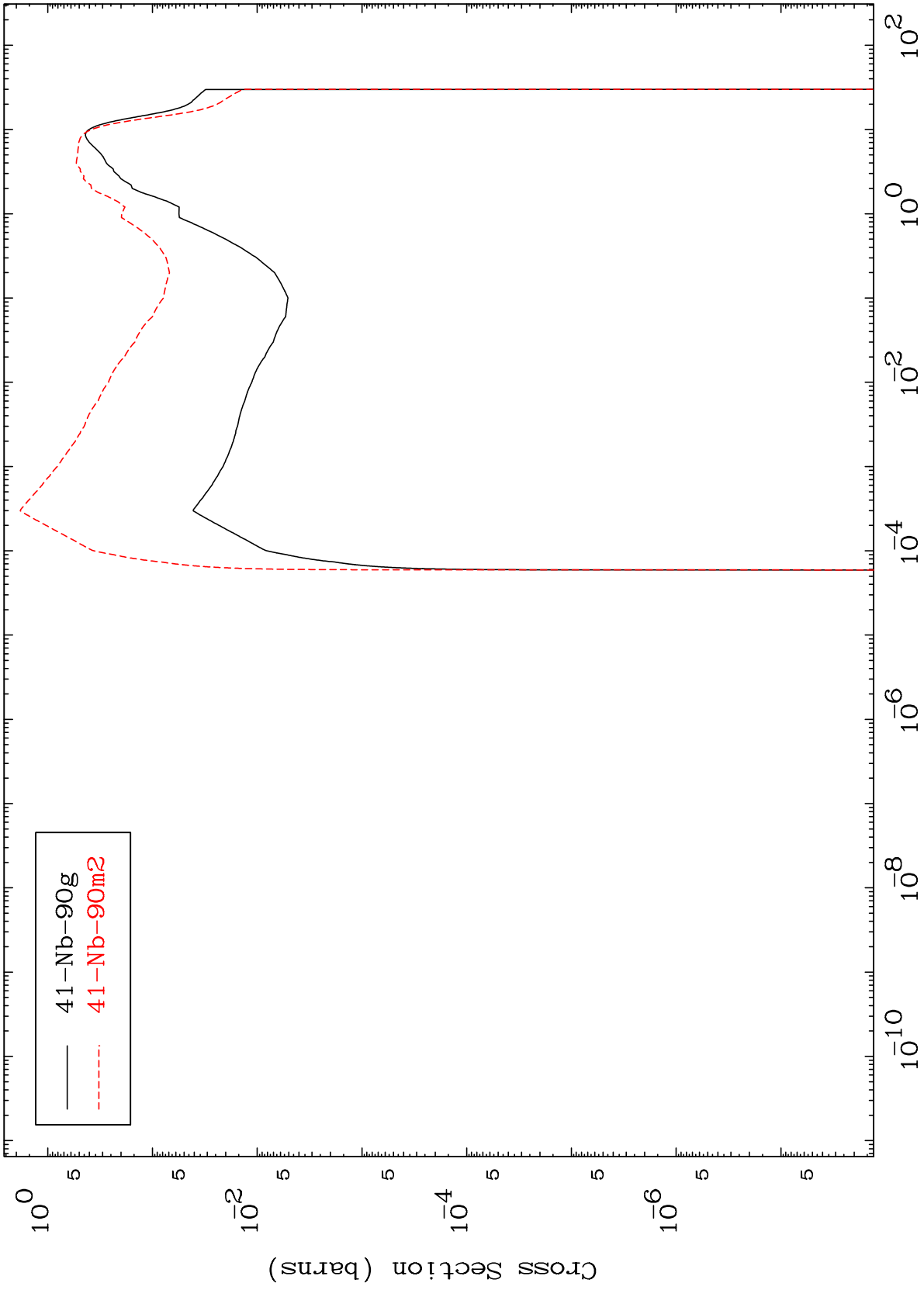
135

42-Mo-90

MAT 4219

42-Mo-90

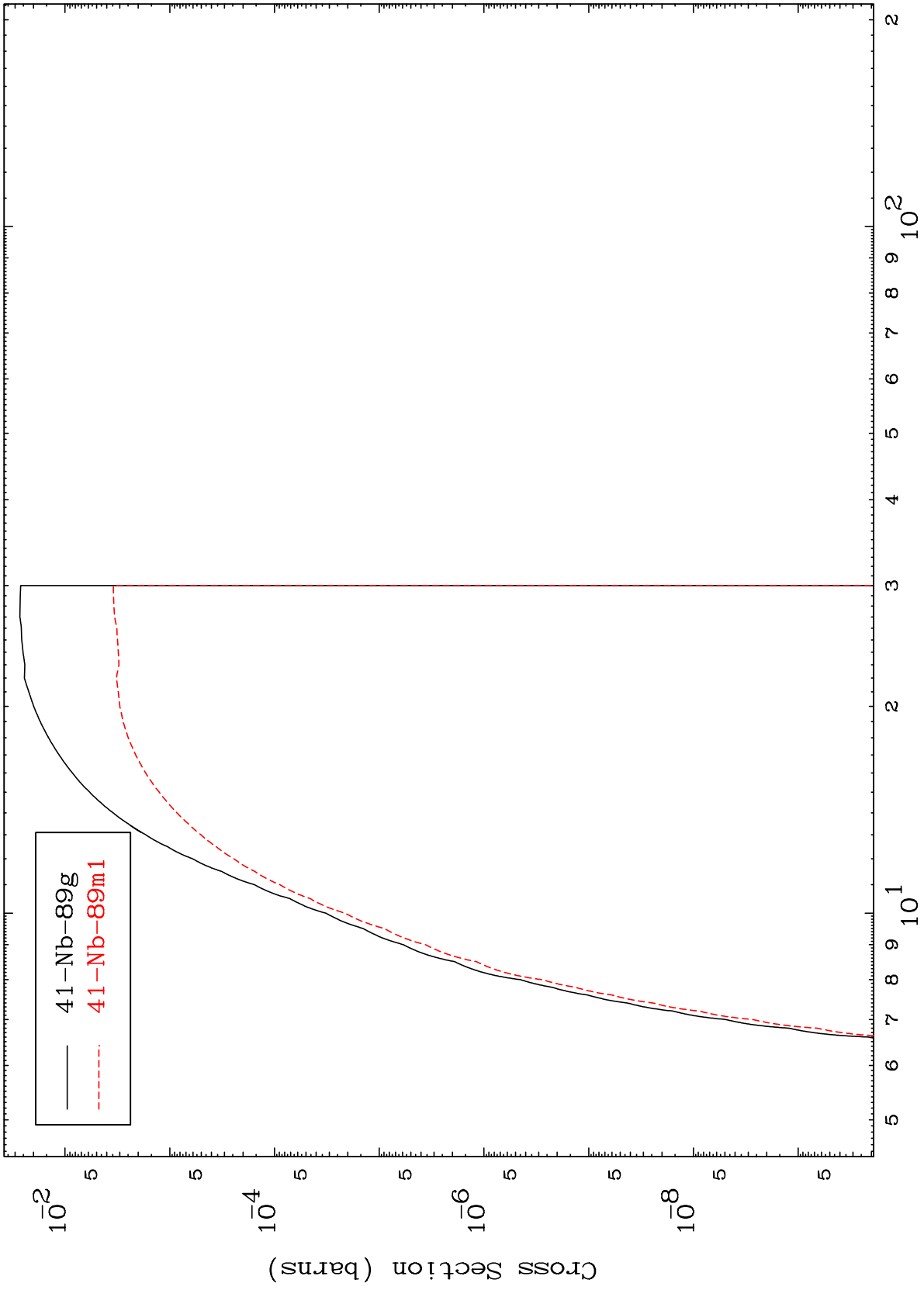
(n,p)  
Radionuclide Production Cross Section



MAT 4219

Radionuclide Production Cross Section  
(n,d)

42-Mo-90

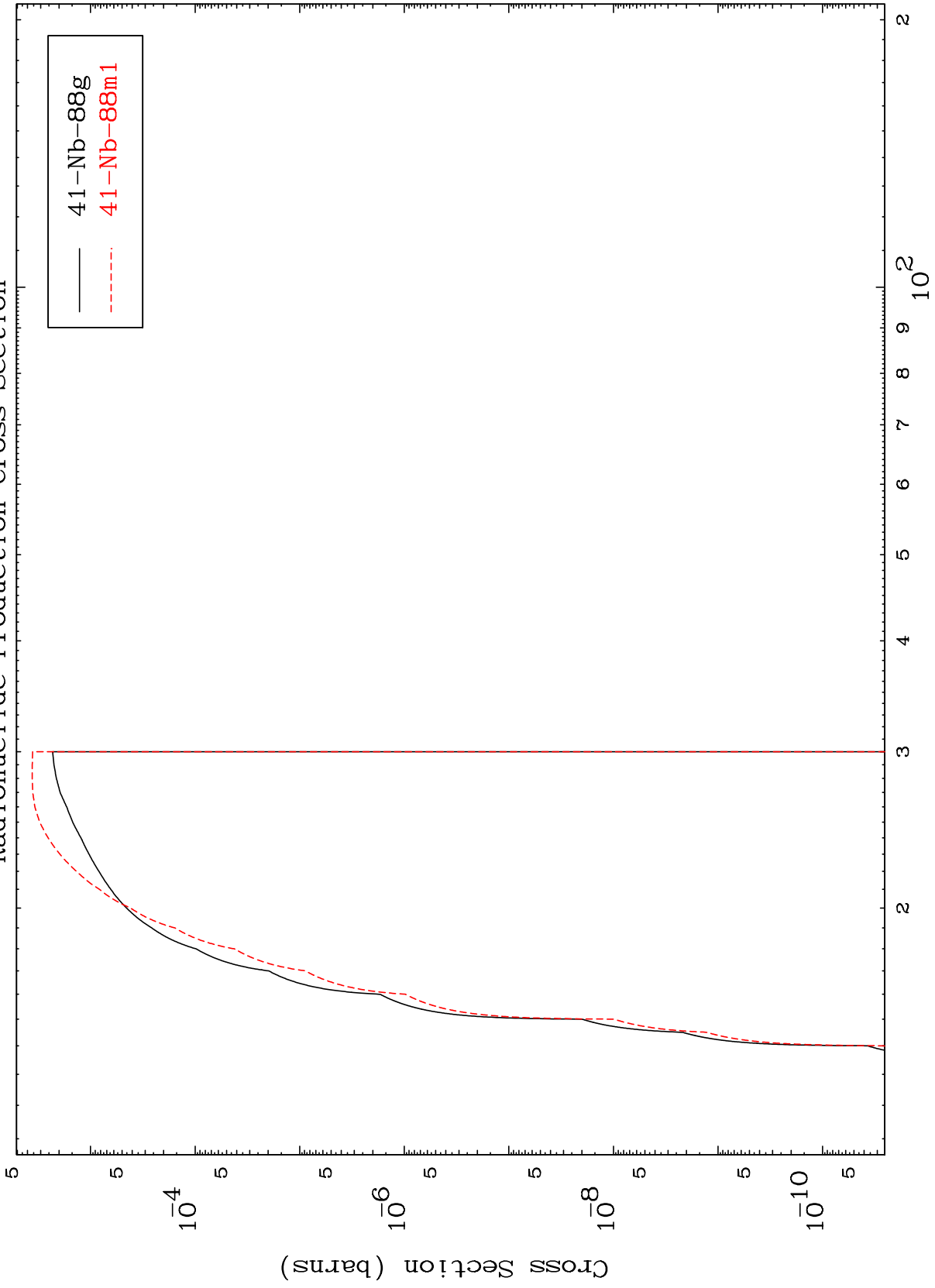


137

Incident Energy (MeV)

42-Mo-90

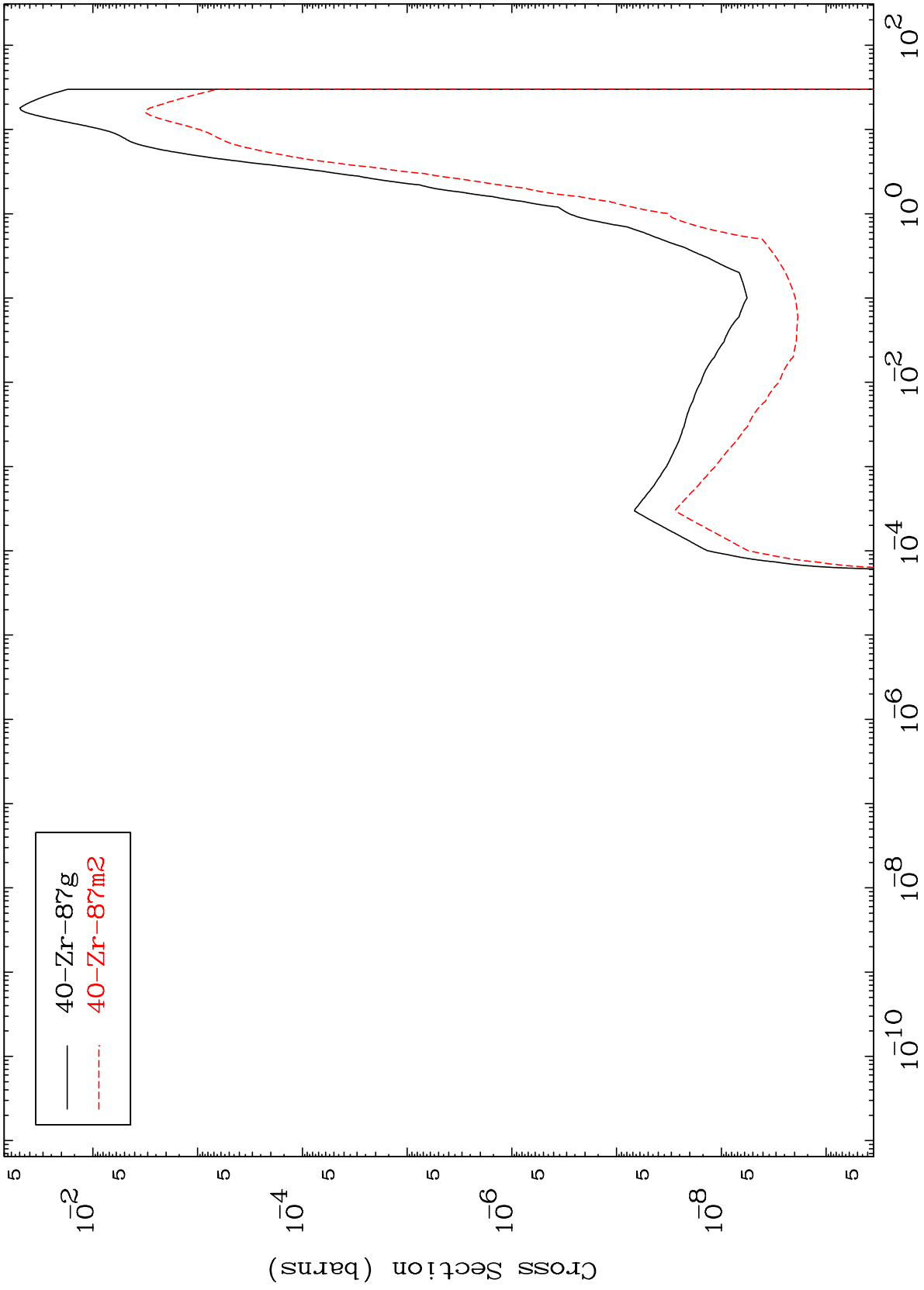
(n, t)  
Radionuclide Production Cross Section



MAT 4219

Radionuclide Production Cross Section  
(n,  $\alpha$ )

42-Mo-90



139

Incident Energy (MeV)

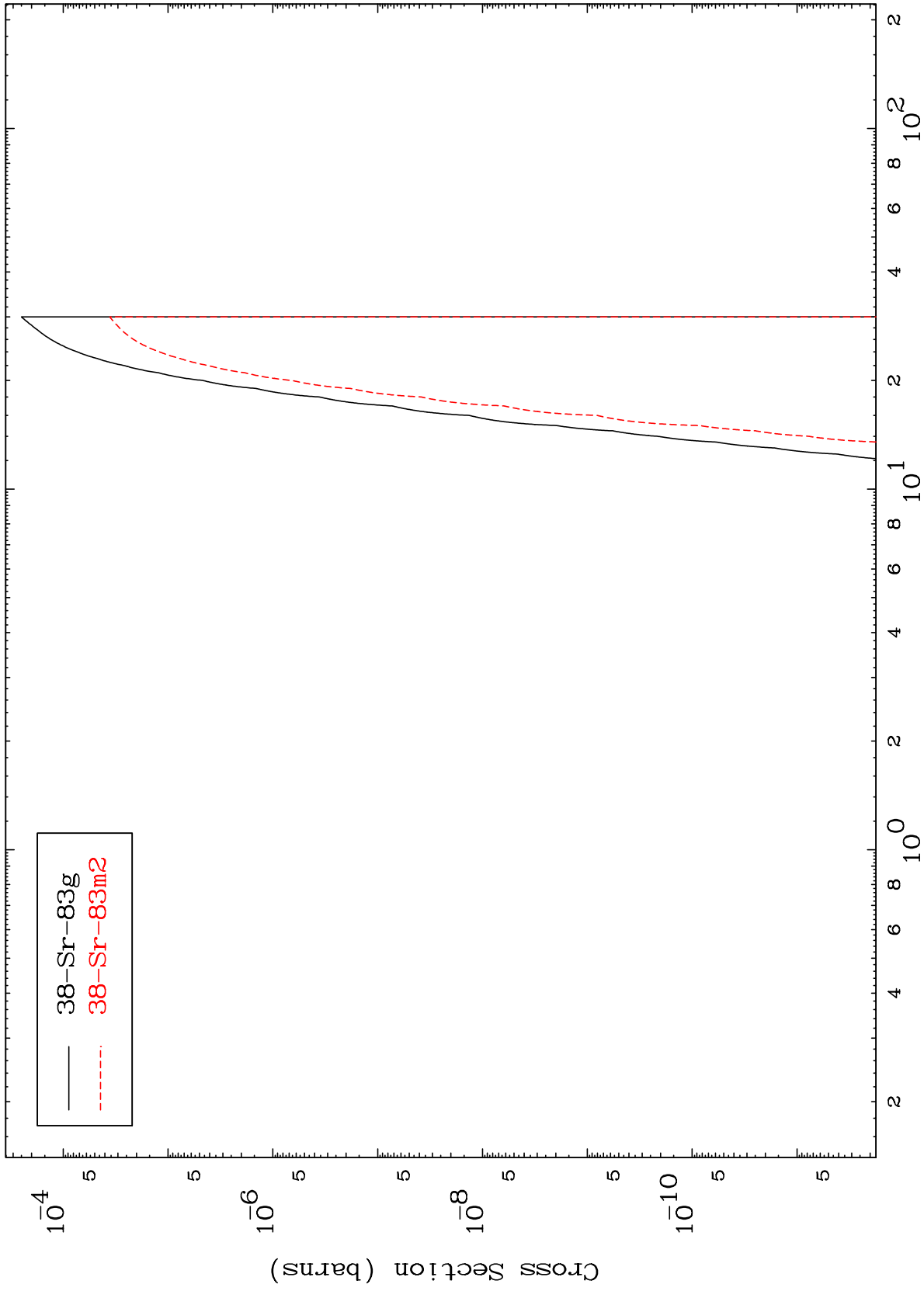
42-Mo-90

MAT 4219

(n,2α)

42-Mo-90

Radionuclide Production Cross Section



140

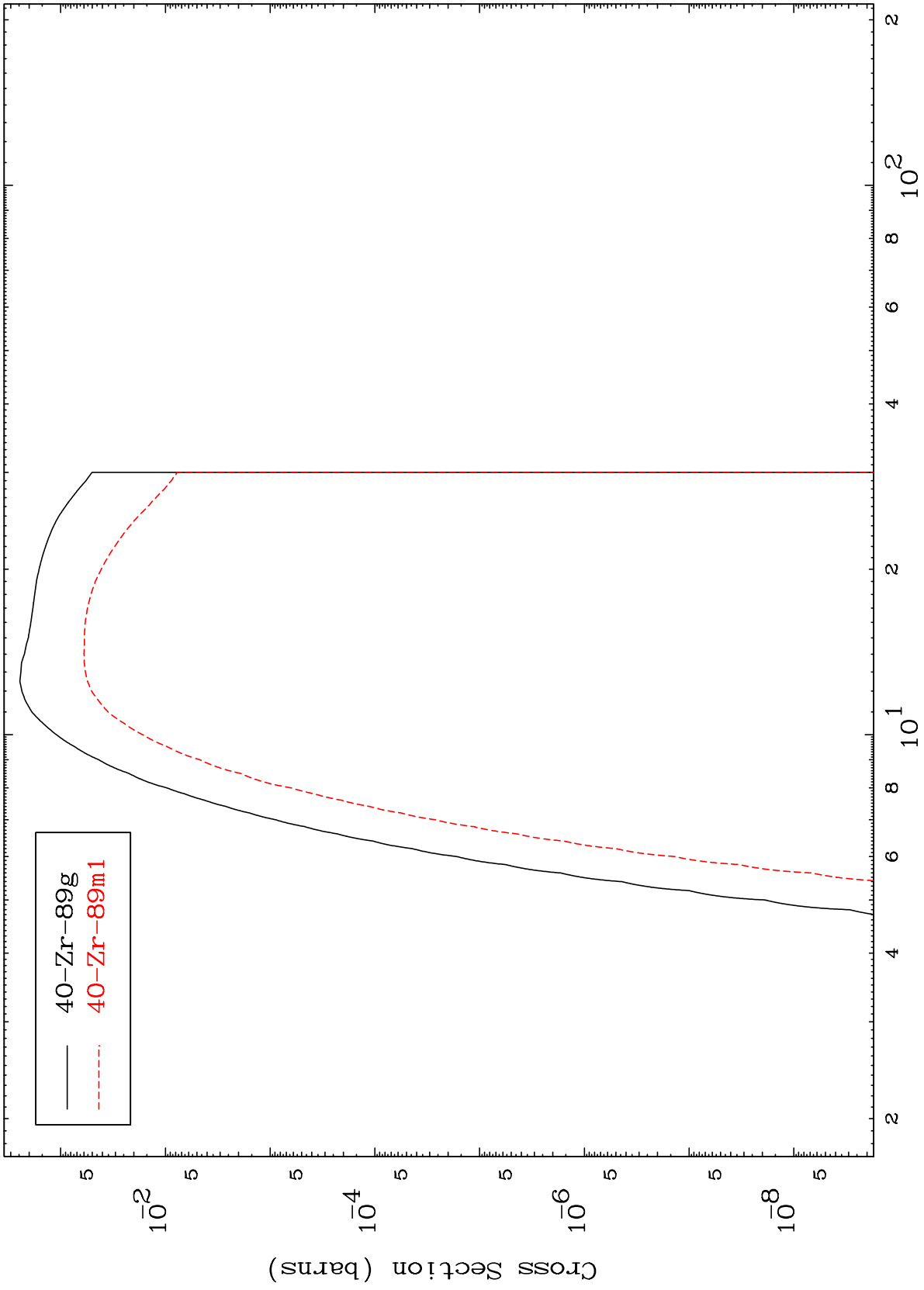
Incident Energy (MeV)

42-Mo-90

MAT 4219

42-Mo-90

Radionuclide Production Cross Section  
(n,2p)



141

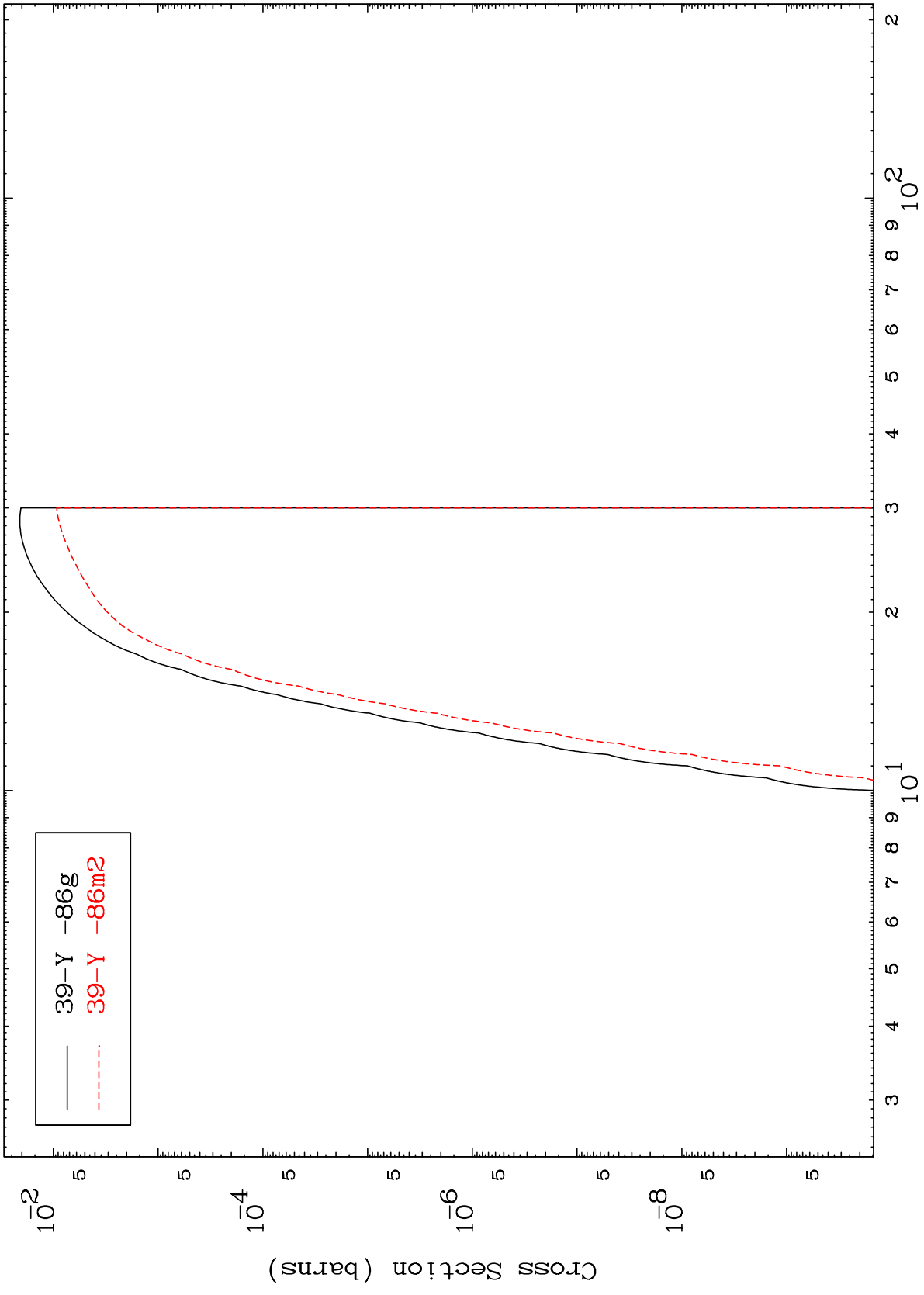
42-Mo-90

MAT 4219

(n,p)  $\alpha$

42-Mo-90

Radionuclide Production Cross Section



39-Y -86g  
39-Y -86m2

142

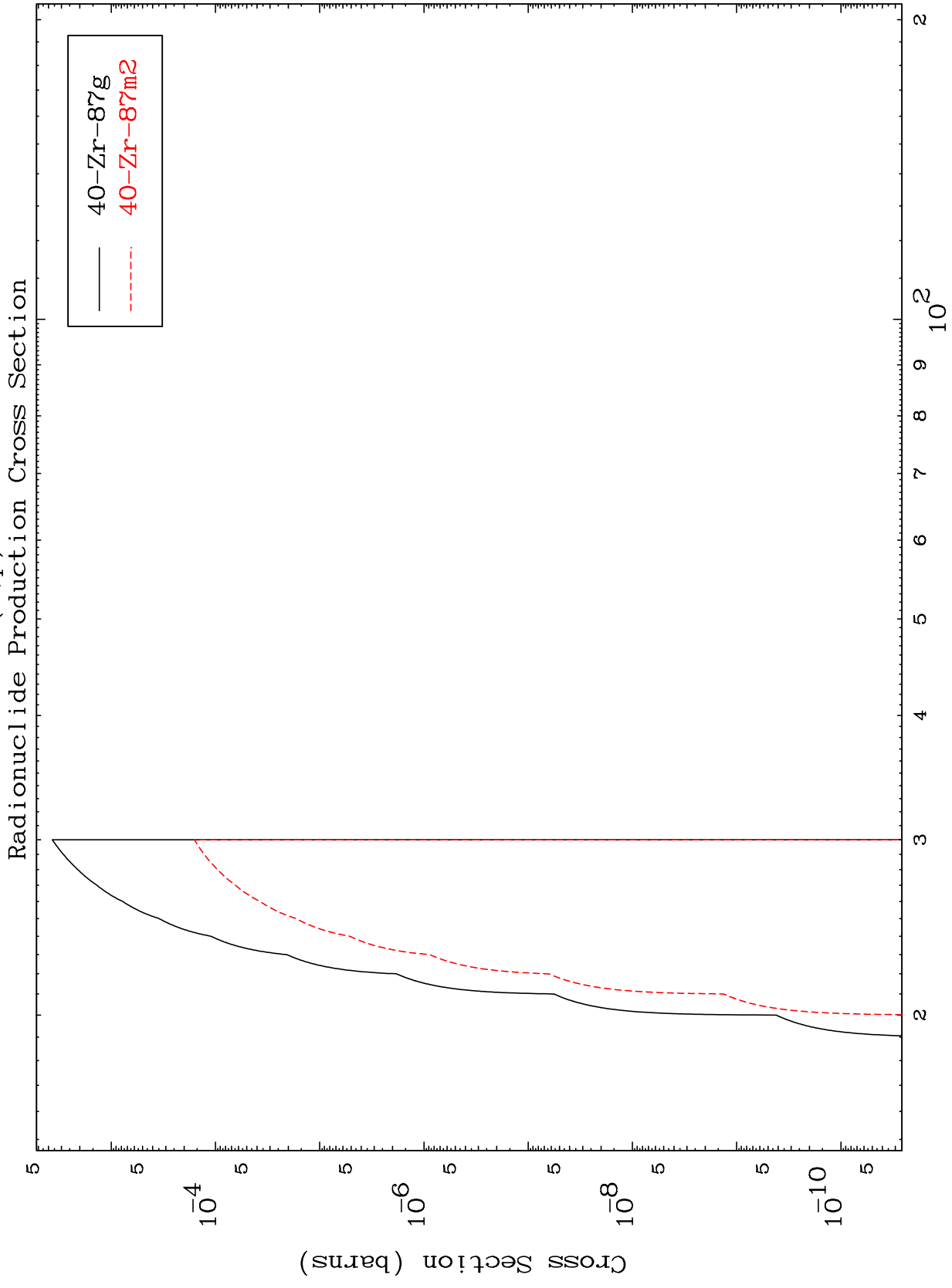
Incident Energy (MeV)

42-Mo-90

MAT 4219

(n,p) t

42-Mo-90



143

Incident Energy (MeV)

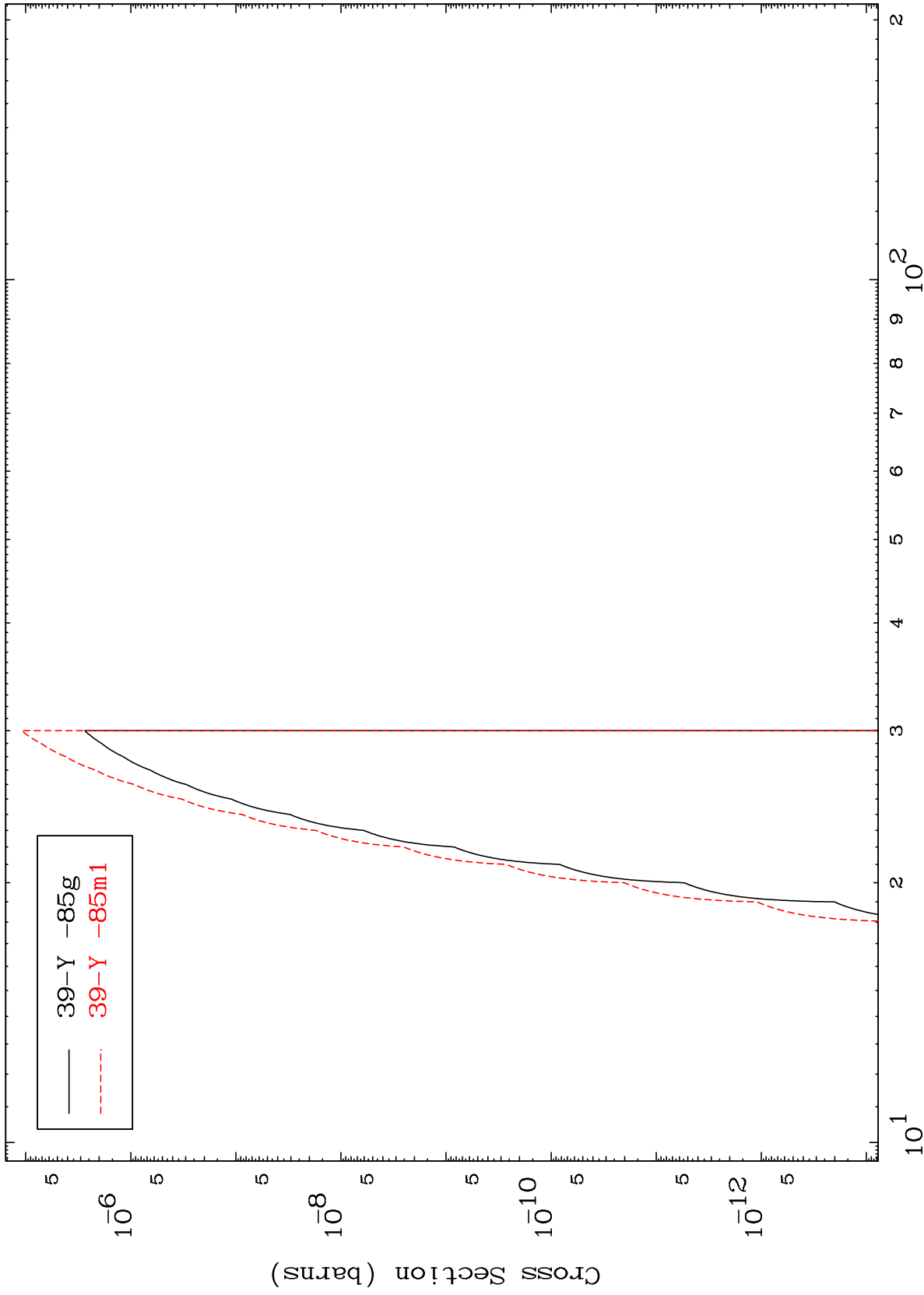
42-Mo-90

MAT 4219

(n,d)  $\alpha$

42-Mo-90

Radionuclide Production Cross Section



39-Y -85g  
39-Y -85m1

144

42-Mo-90