

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

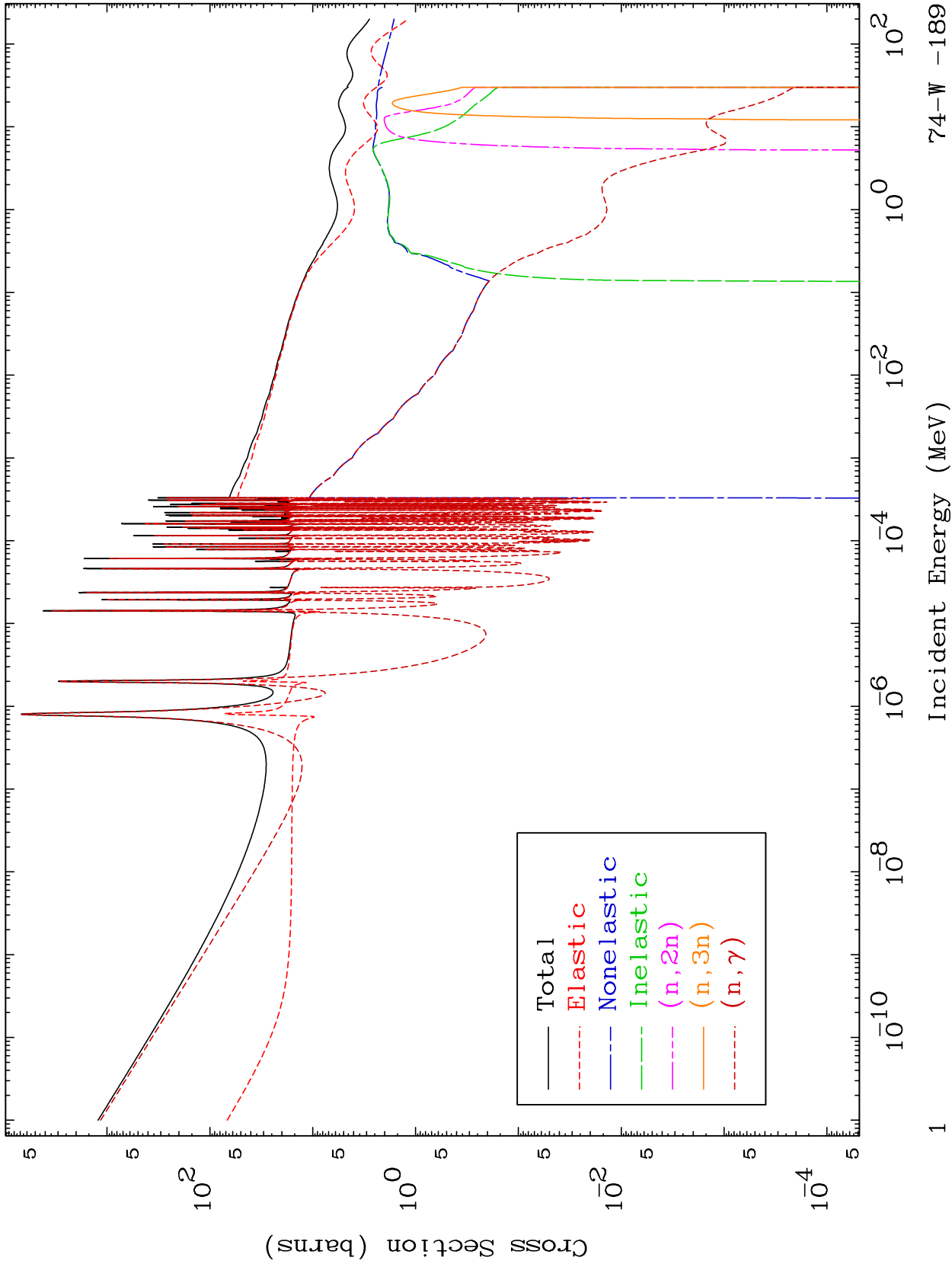
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Livermore, CA 94550  
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

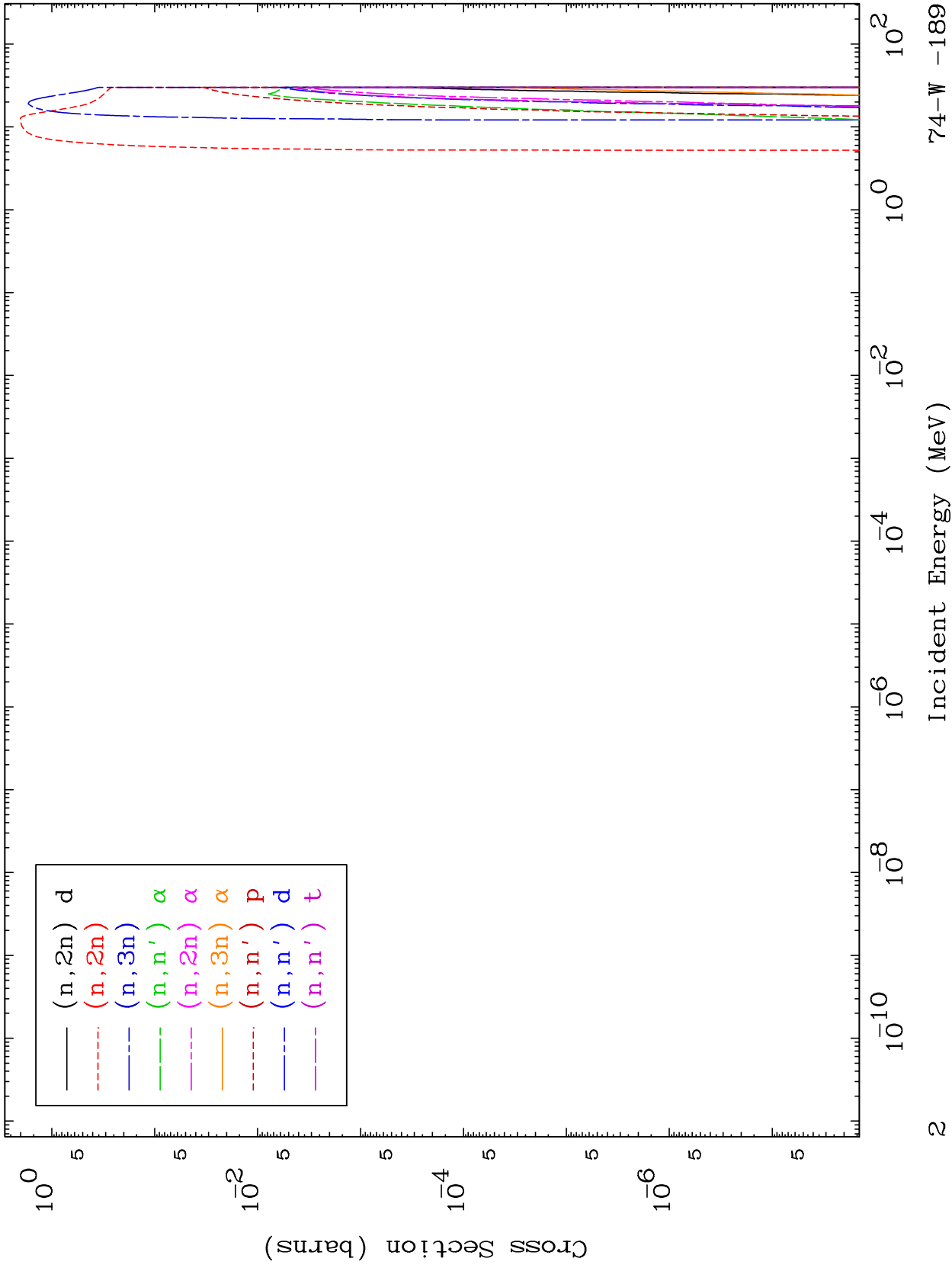
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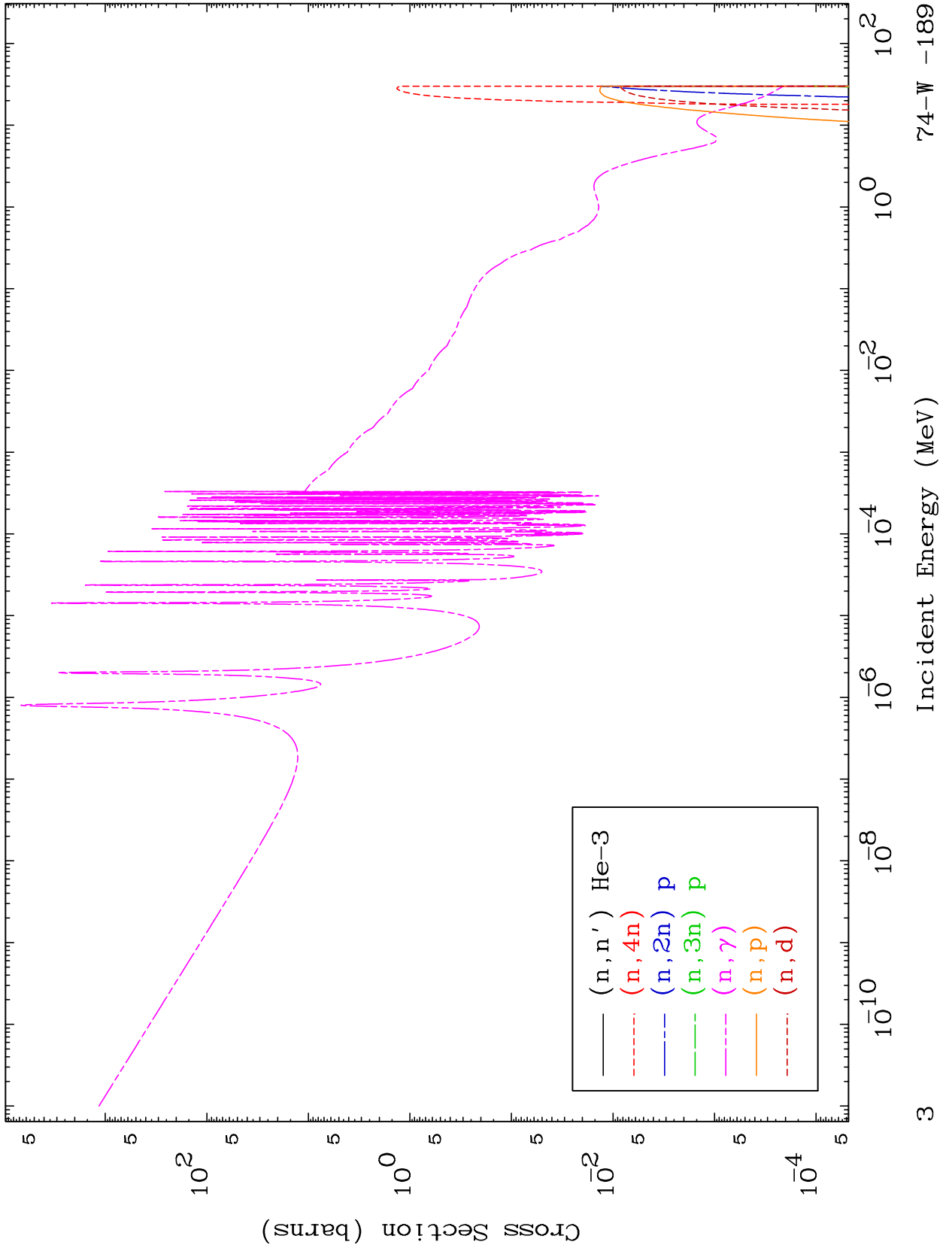


MAT 7452

Neutron Absorption  
293 Kelvin Cross Sections

74-W -189

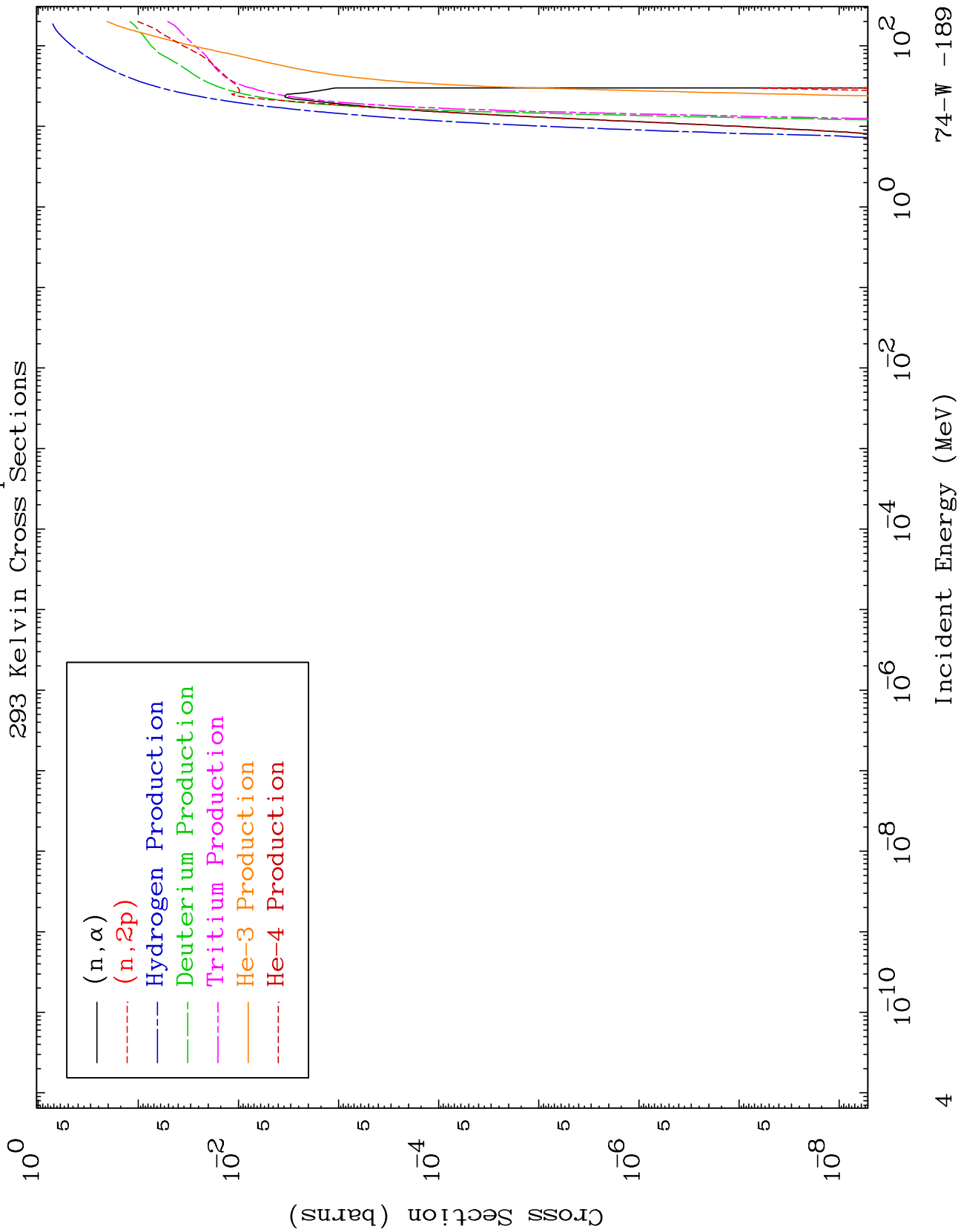




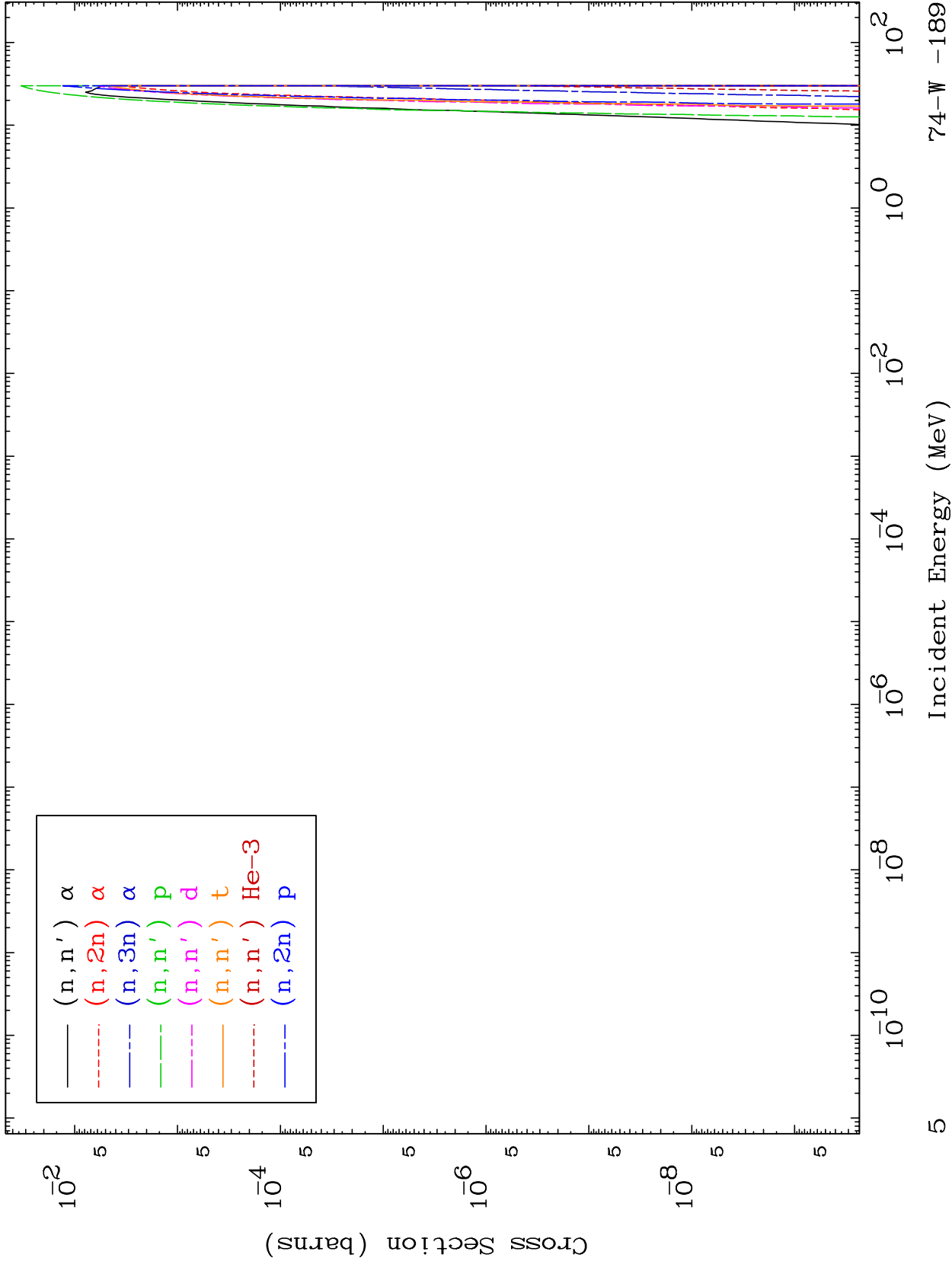
MAT 7452

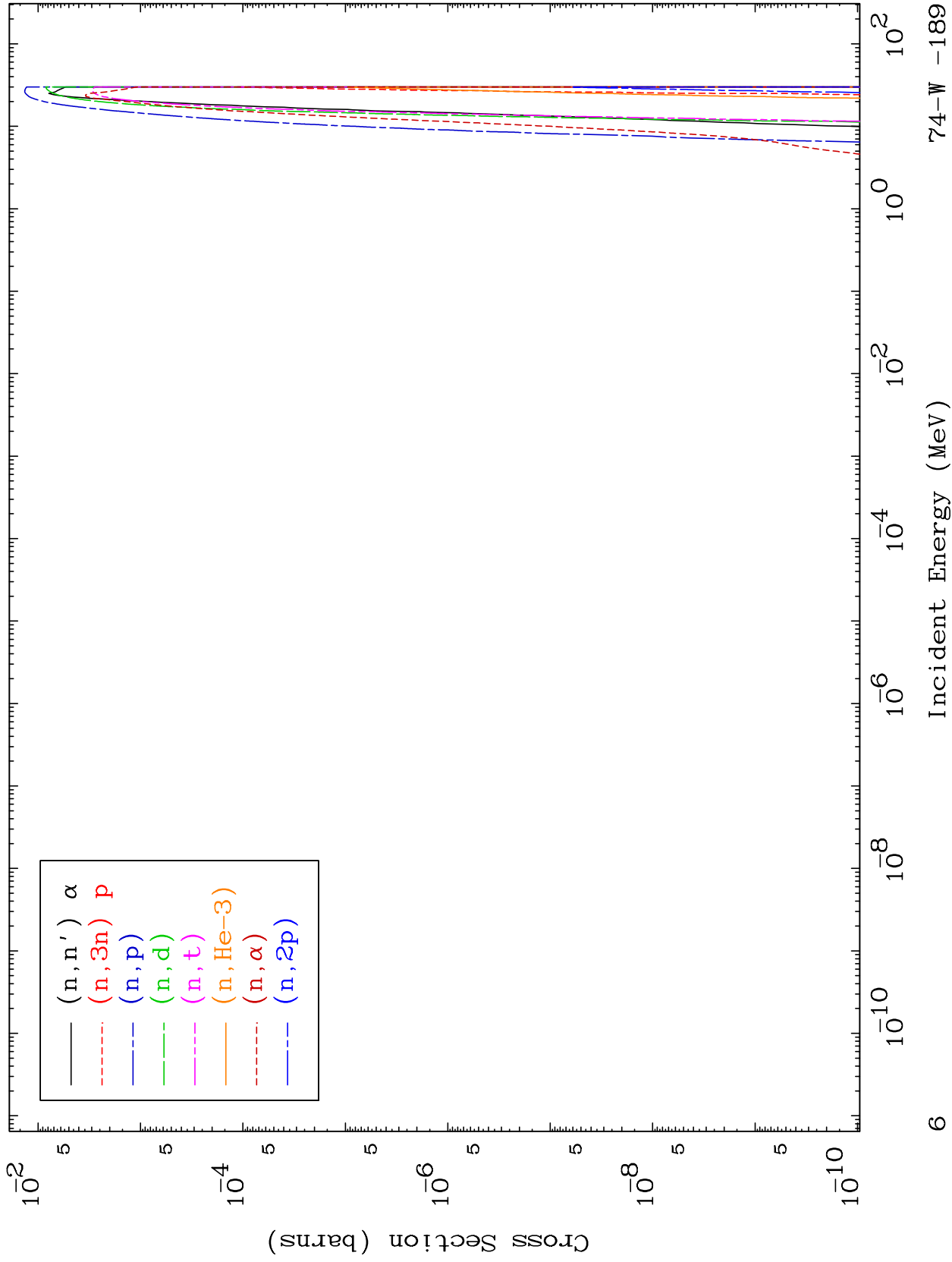
Neutron Absorption  
293 Kelvin Cross Sections

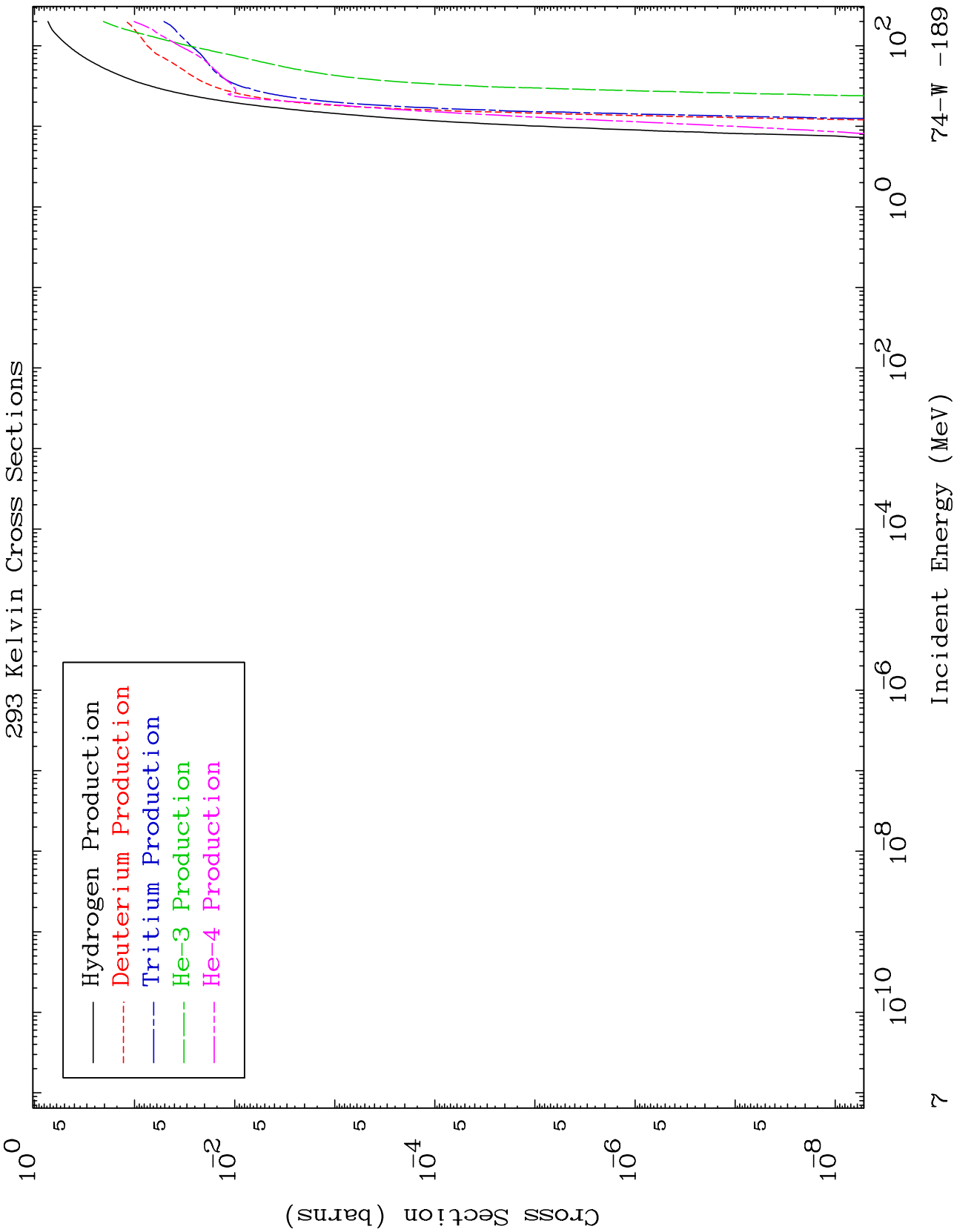
74-W -189

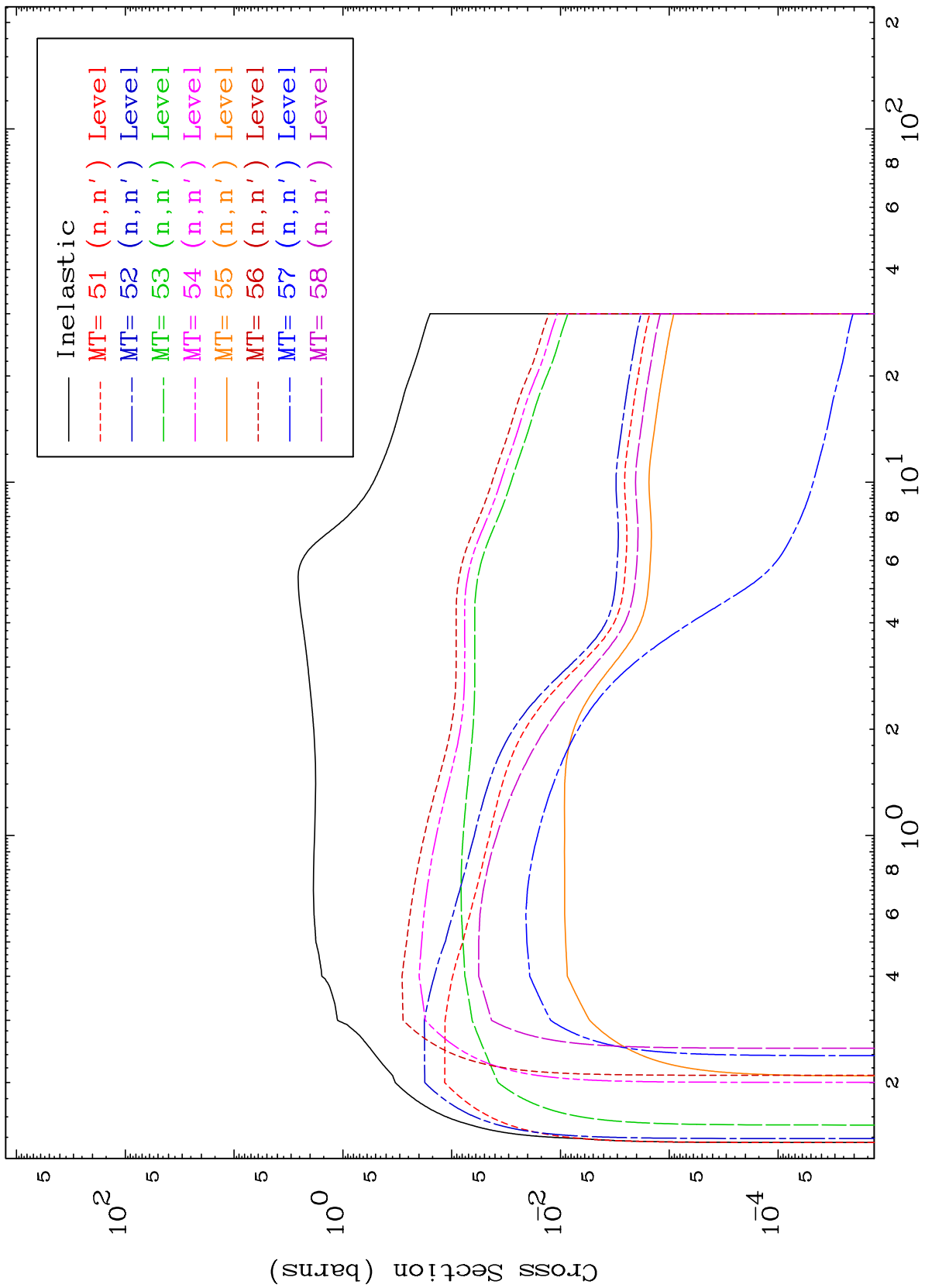


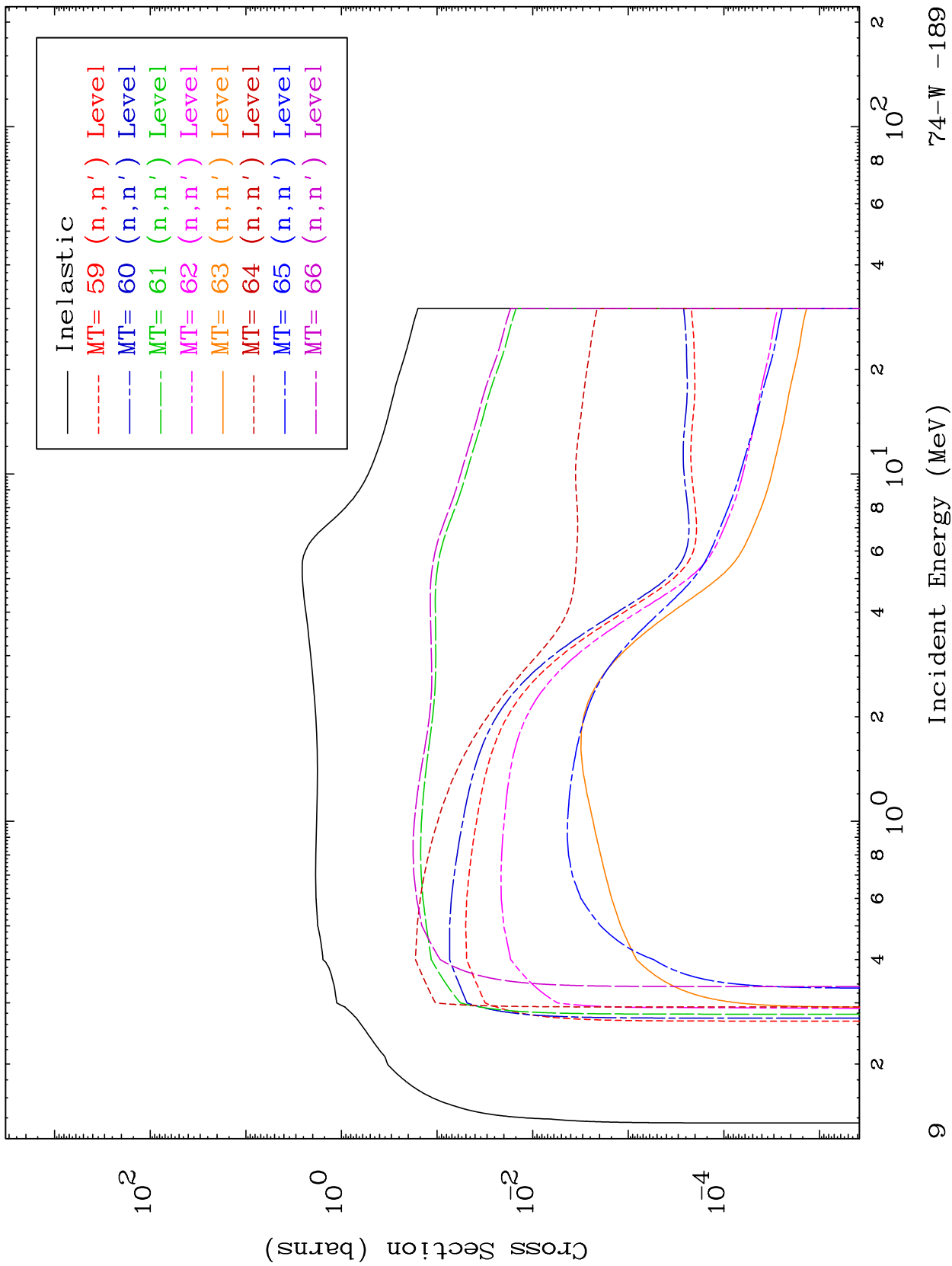
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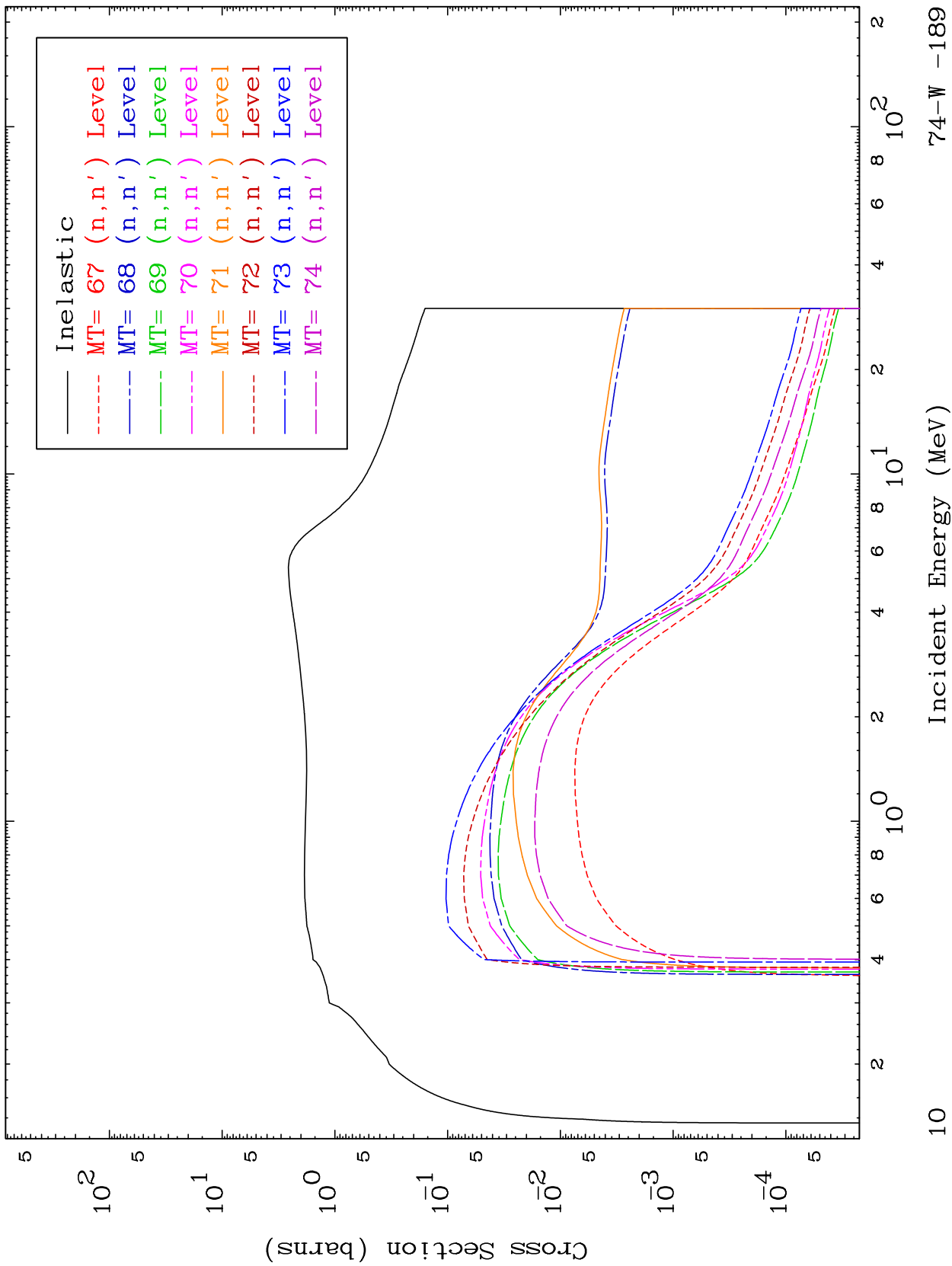


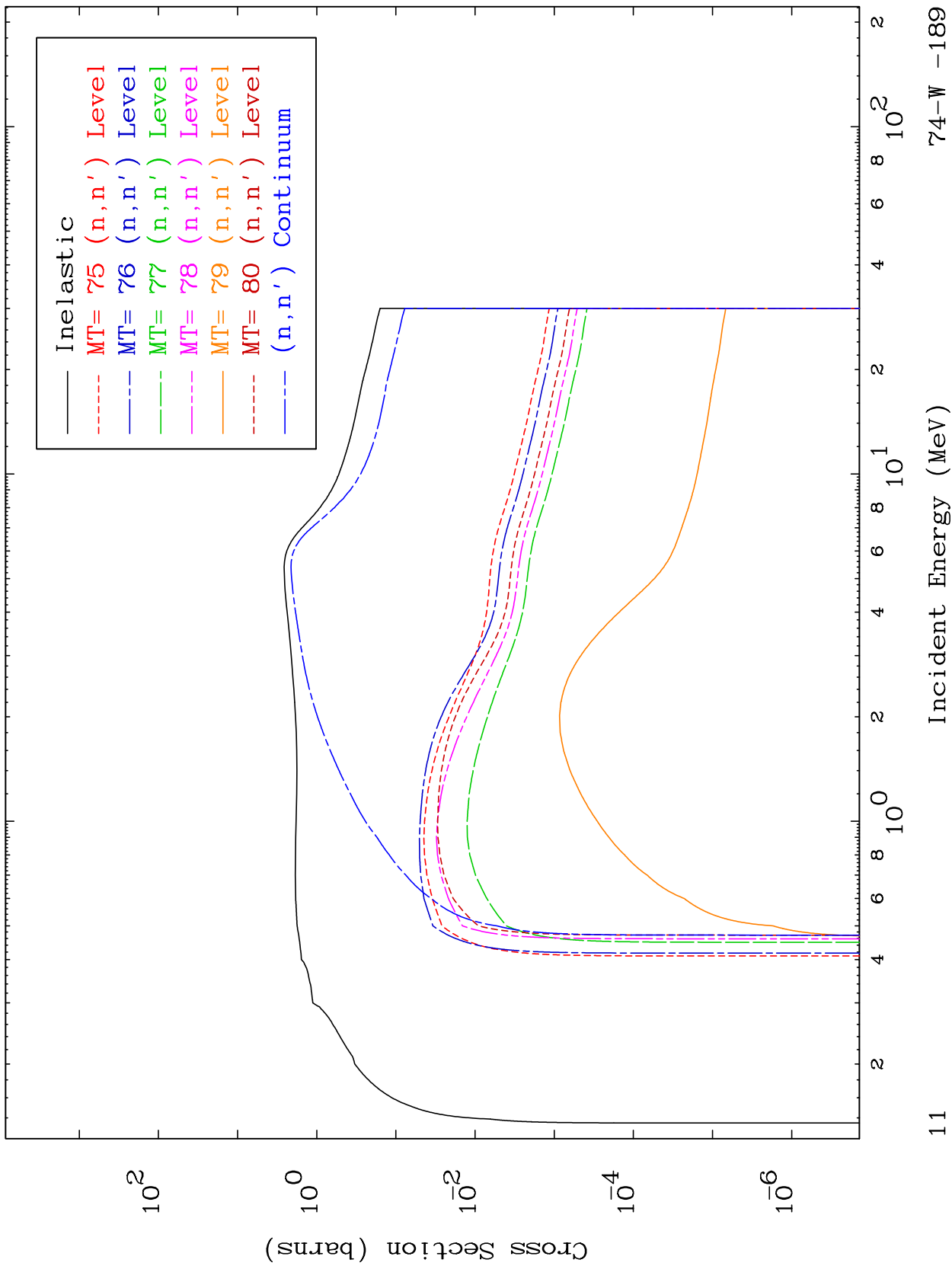










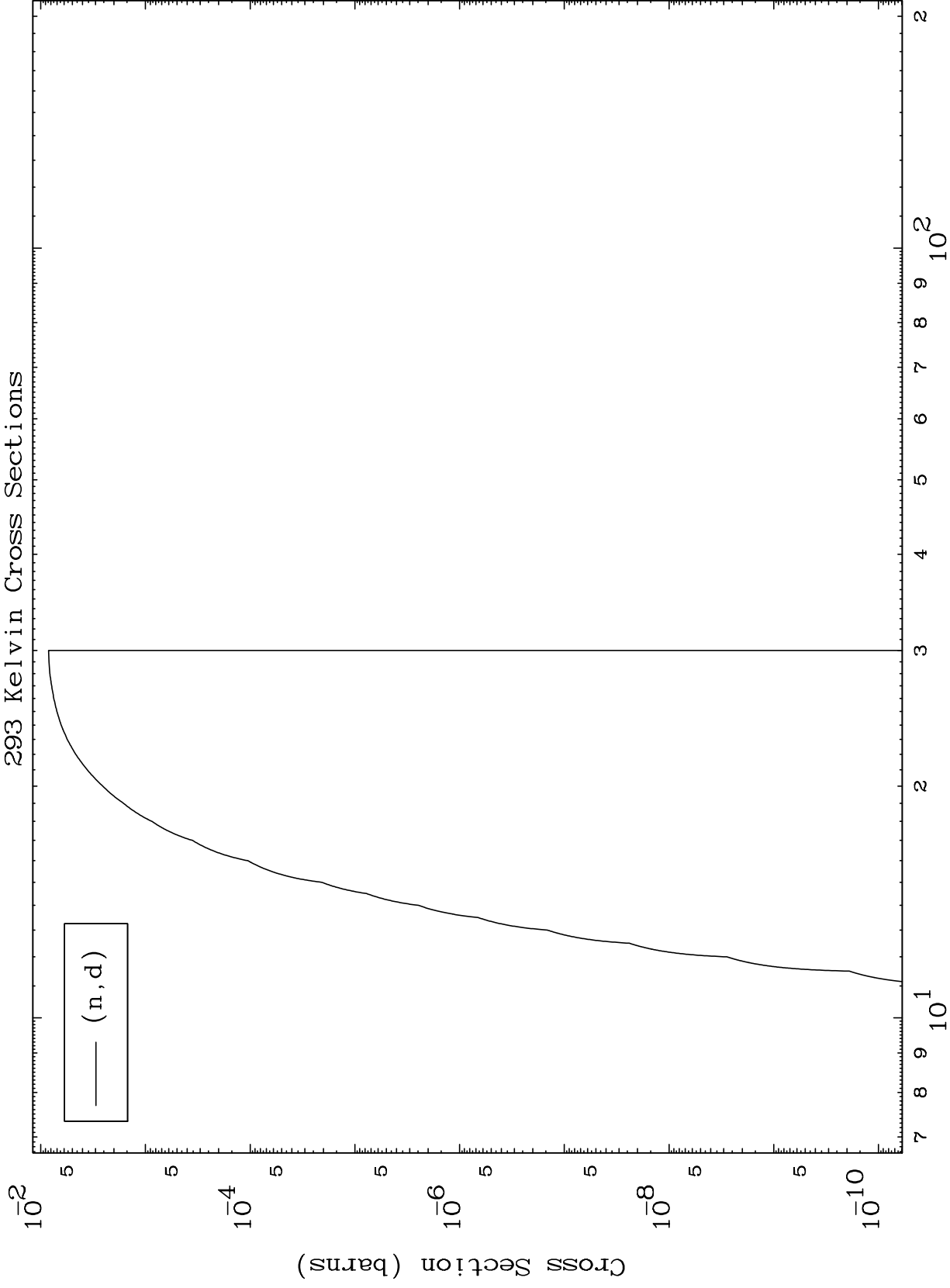




MAT 7452

(n,d) Levels  
293 Kelvin Cross Sections

74-W -189



13

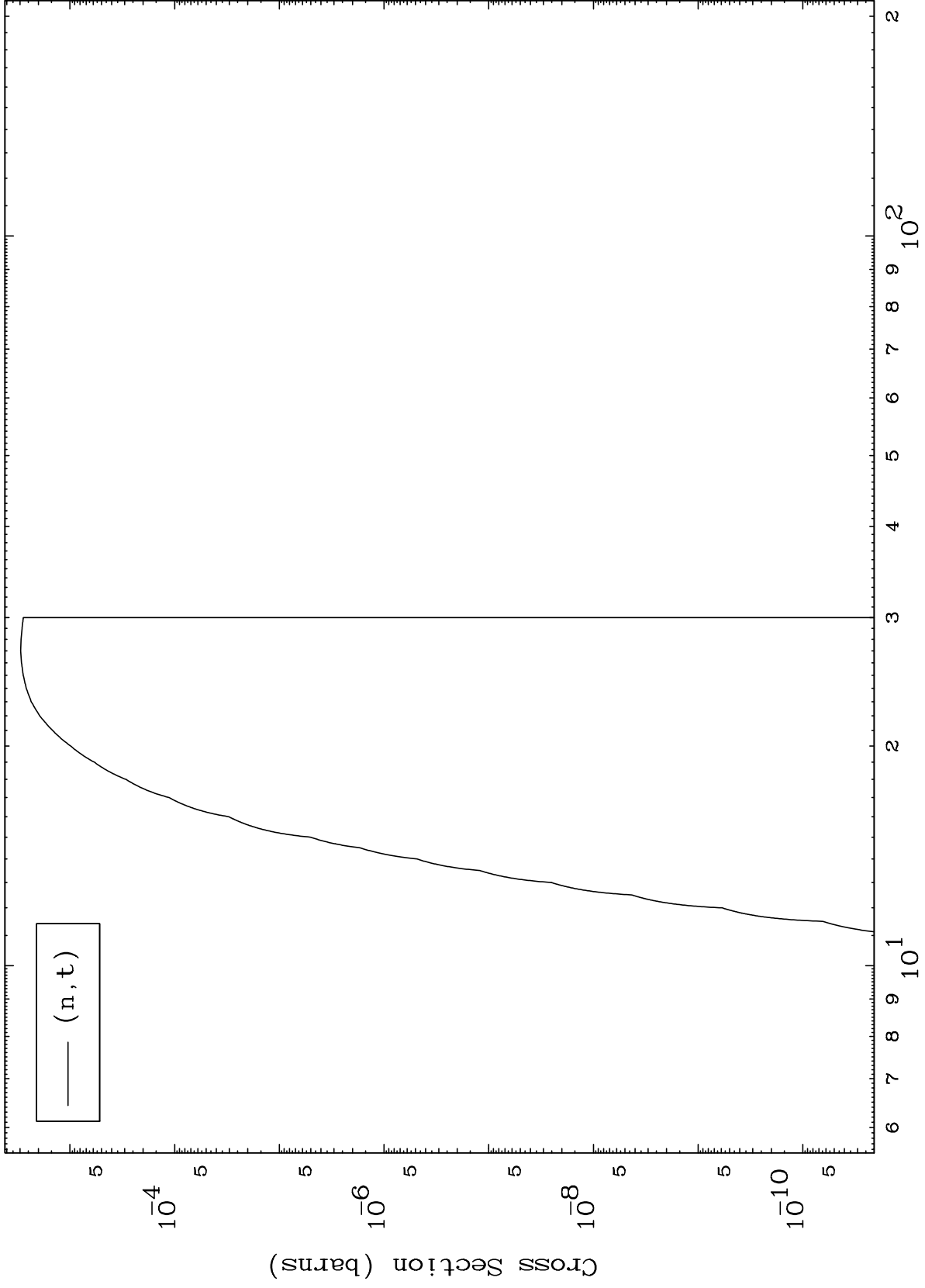
Incident Energy (MeV)

74-W -189

MAT 7452

(n, t) Levels  
293 Kelvin Cross Sections

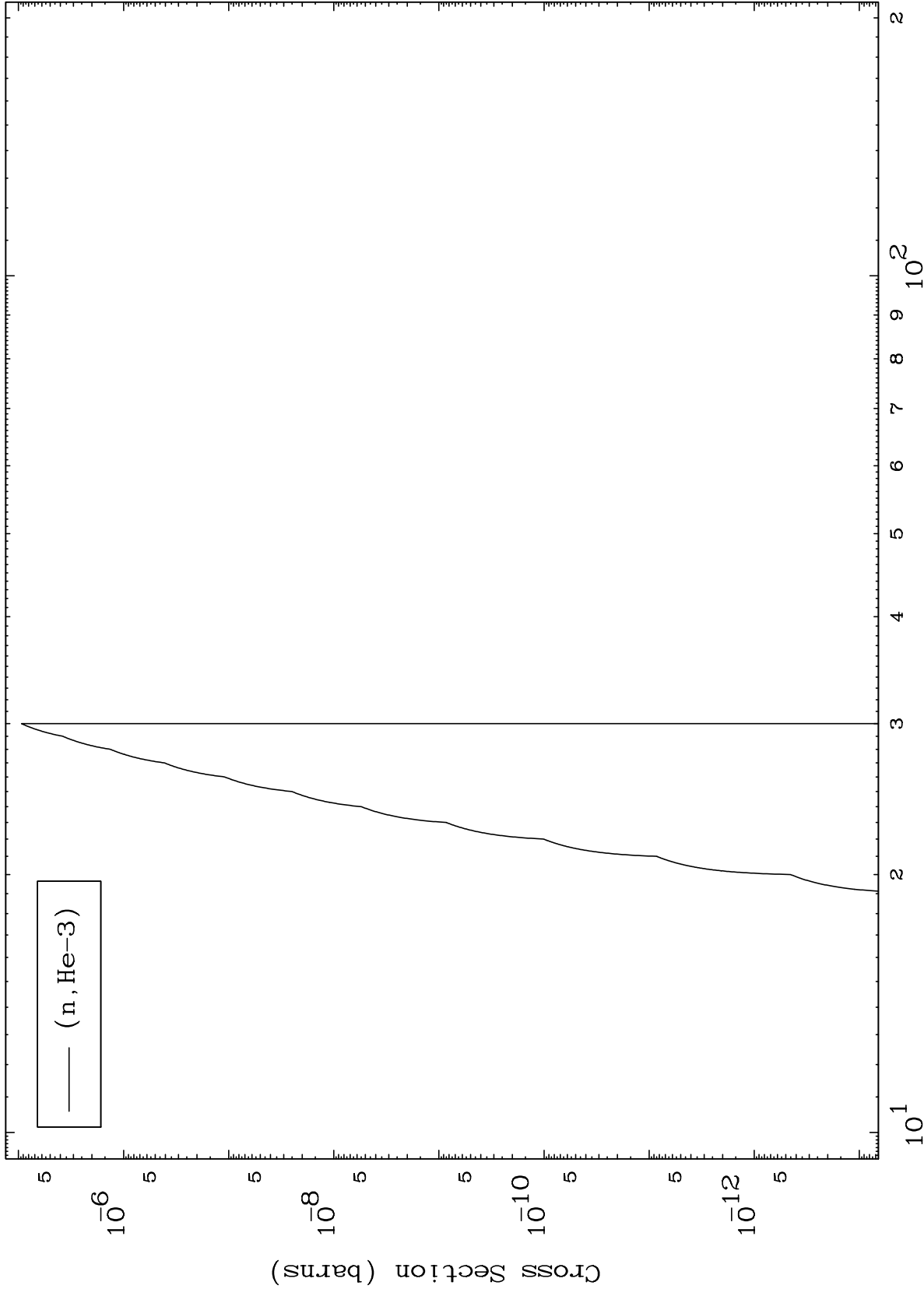
74-W -189



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Incident Energy (MeV)

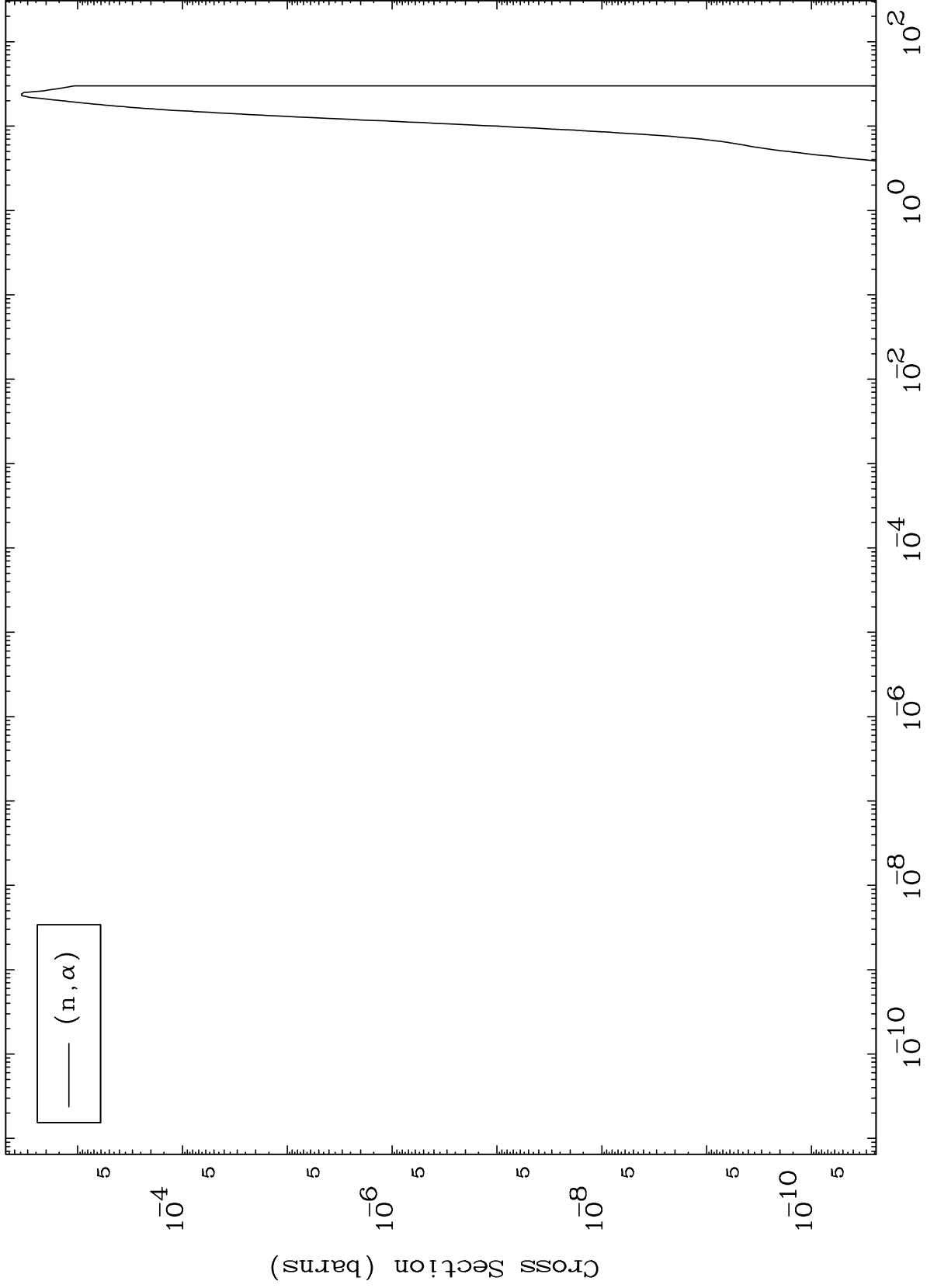
74-W -189



MAT 7452

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

74-W -189

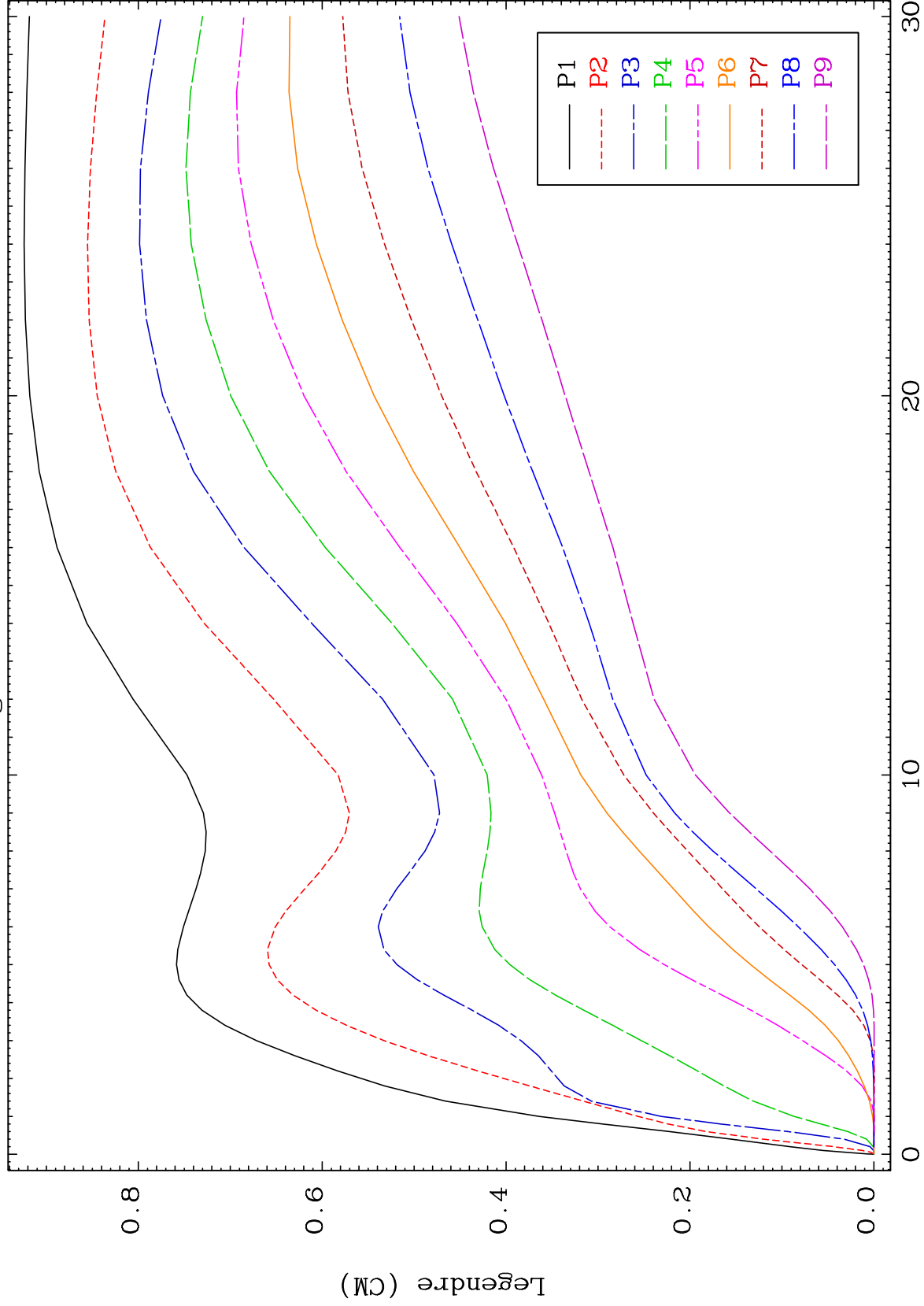


(n,  $\alpha$ )

16

Incident Energy (MeV)

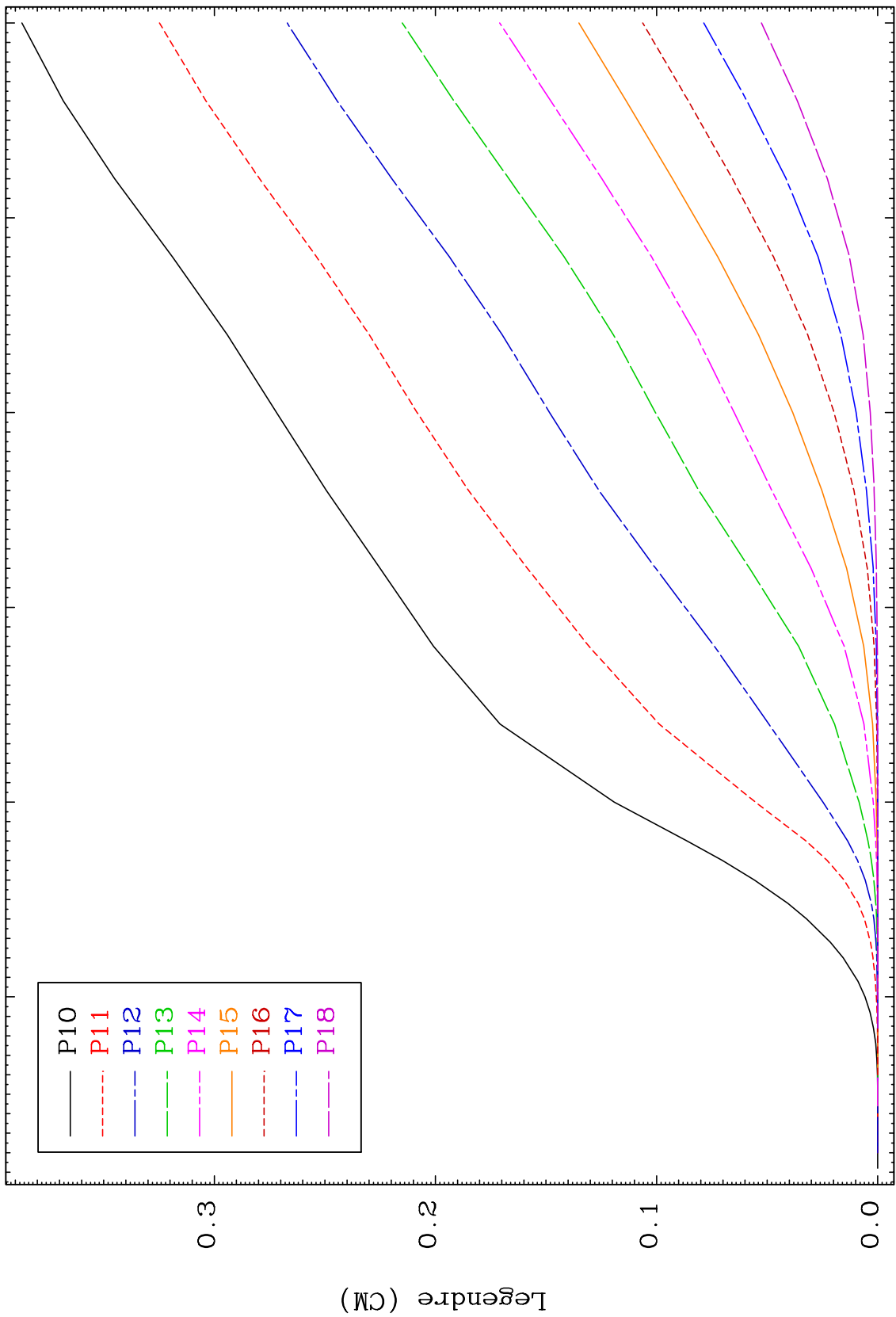
74-W -189



MAT 7452

### Elastic Legendre Coefficients

74-W -189



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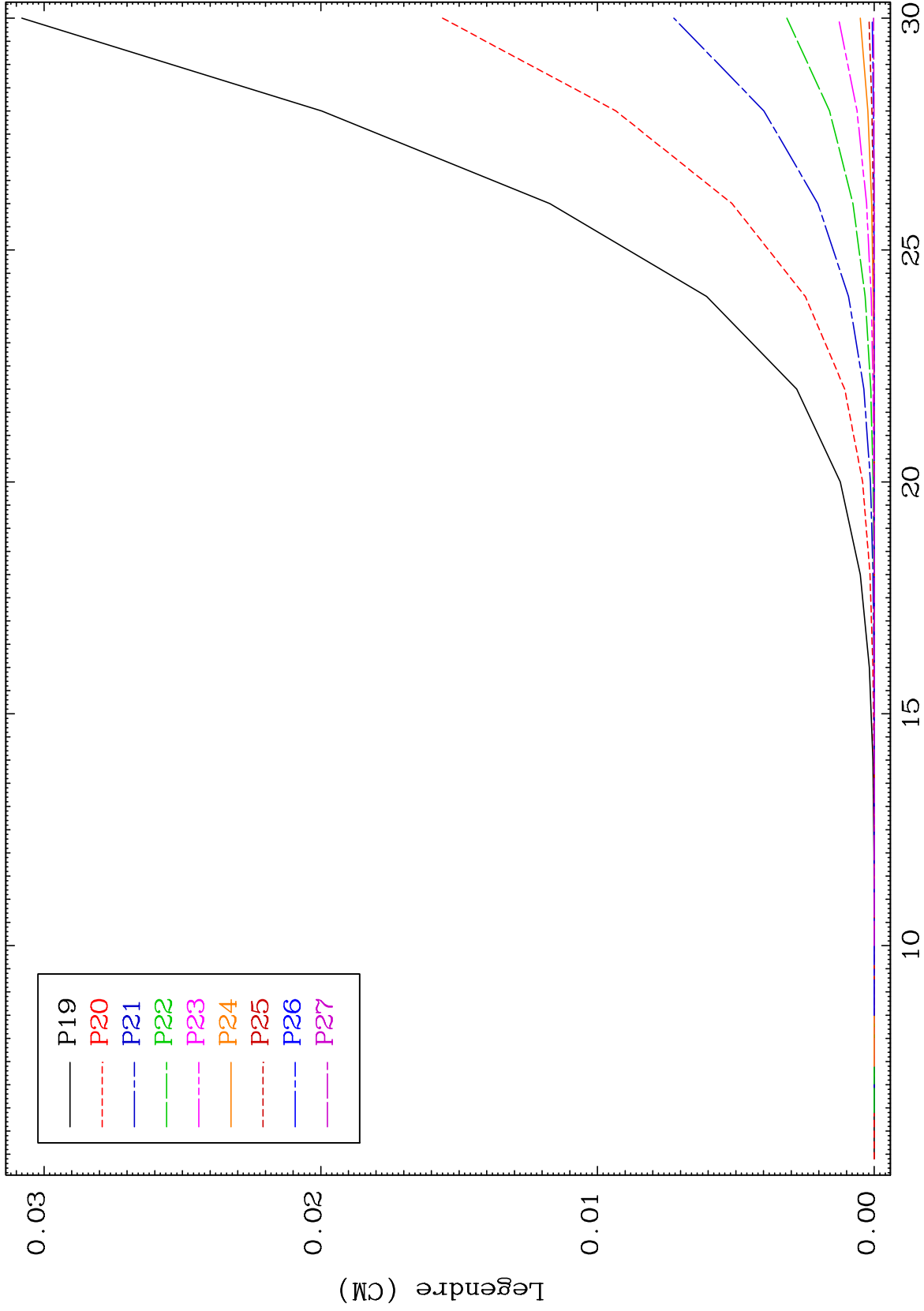
Incident Energy (MeV)

74-W -189

MAT 7452

Elastic Legendre Coefficients

74-W -189



19

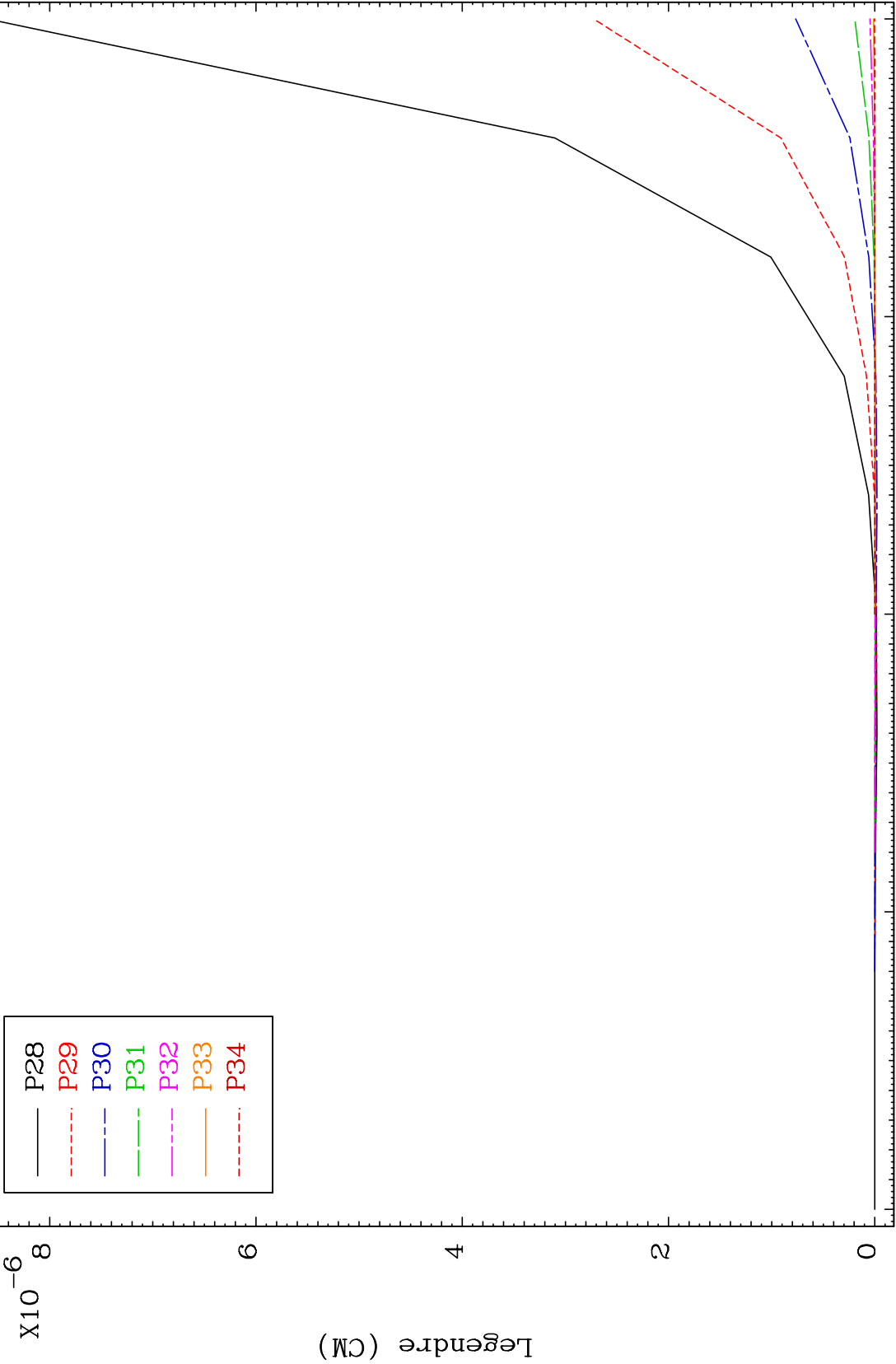
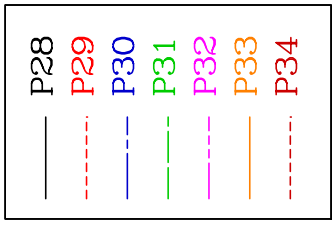
Incident Energy (MeV)

74-W -189

MAT 7452

Elastic Legendre Coefficients

74-W -189



20

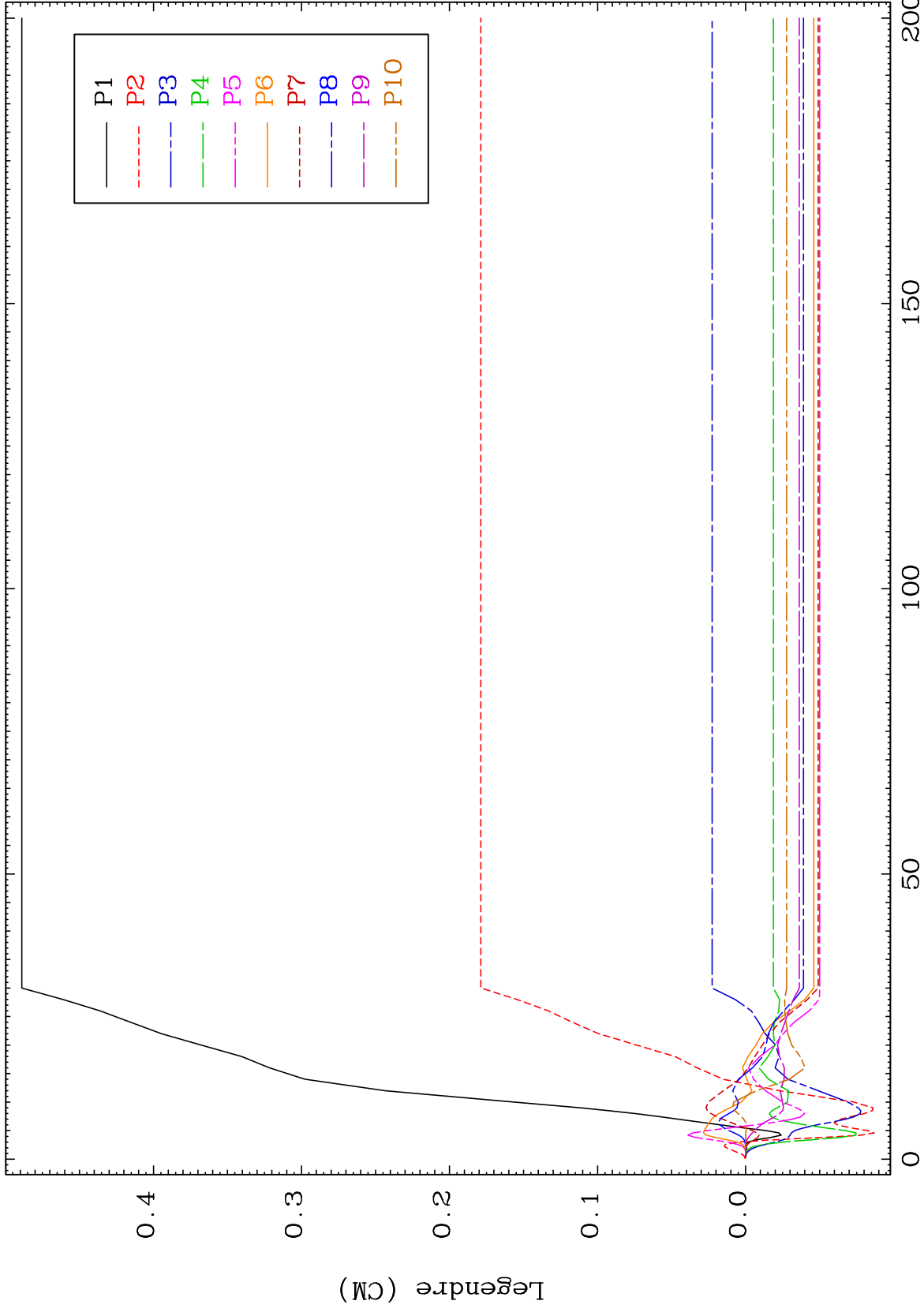
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



21

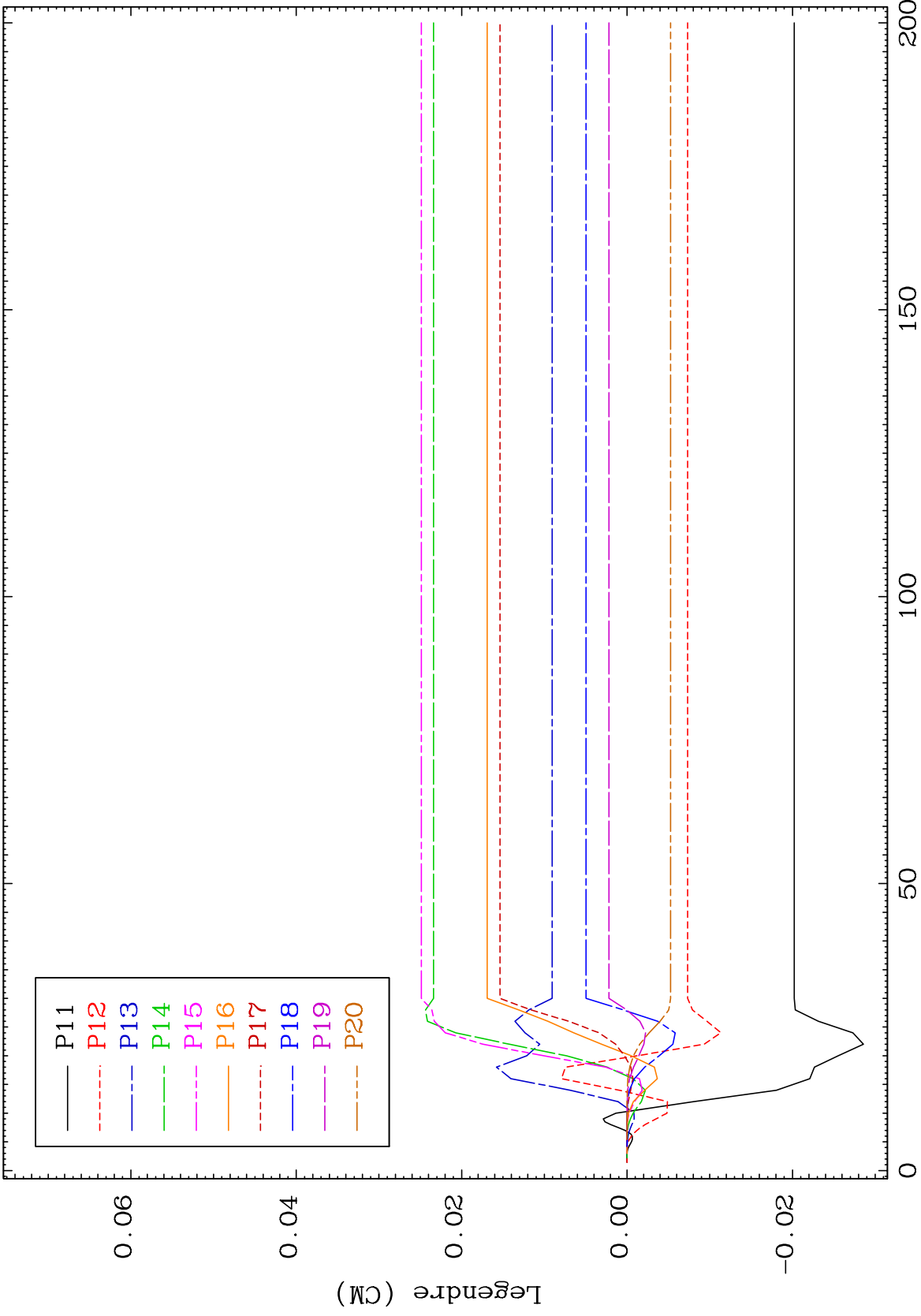
Incident Energy (MeV)

74-W -189

MAT 7452

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

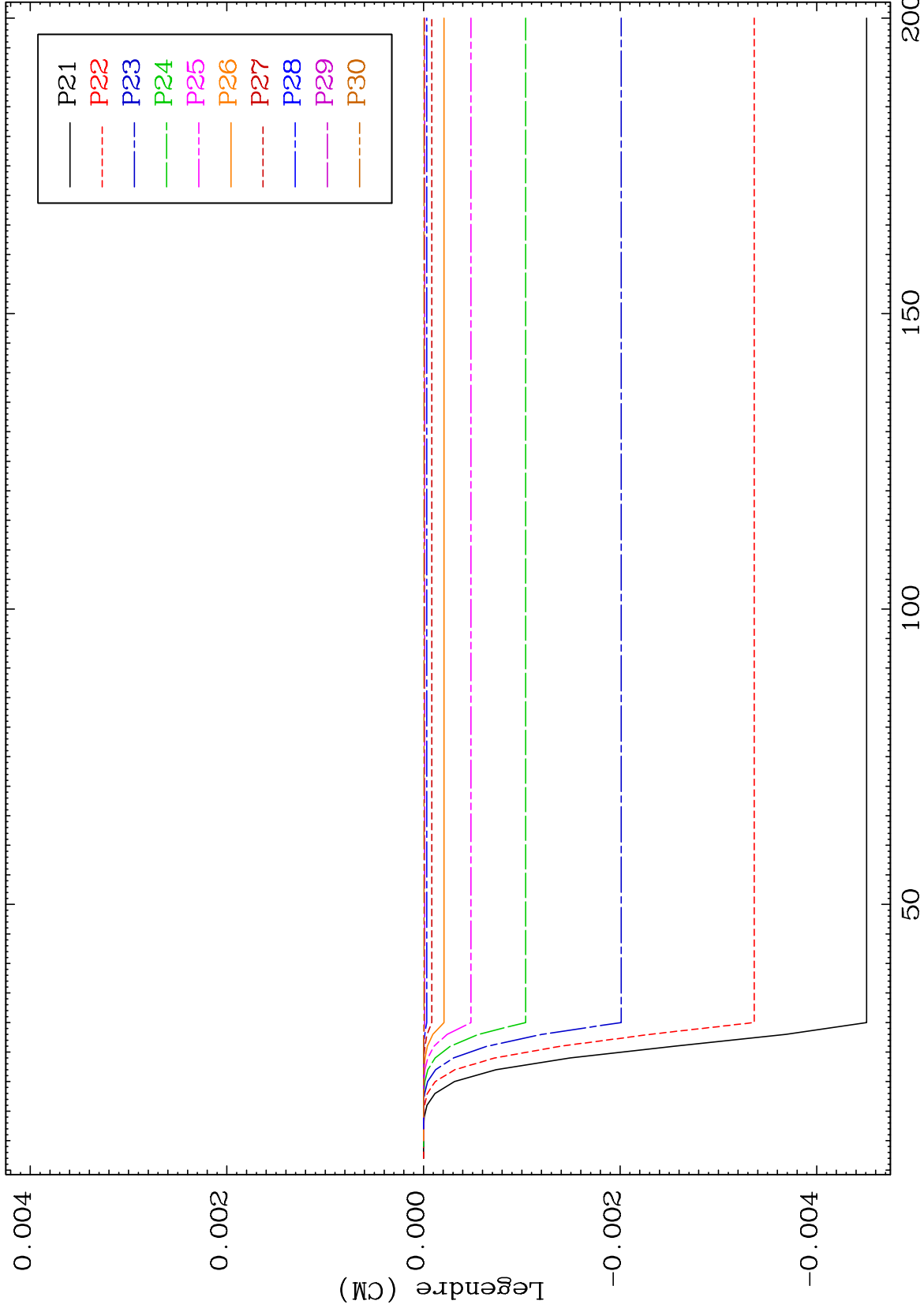
74-W -189



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Incident Energy (MeV)

74-W -189

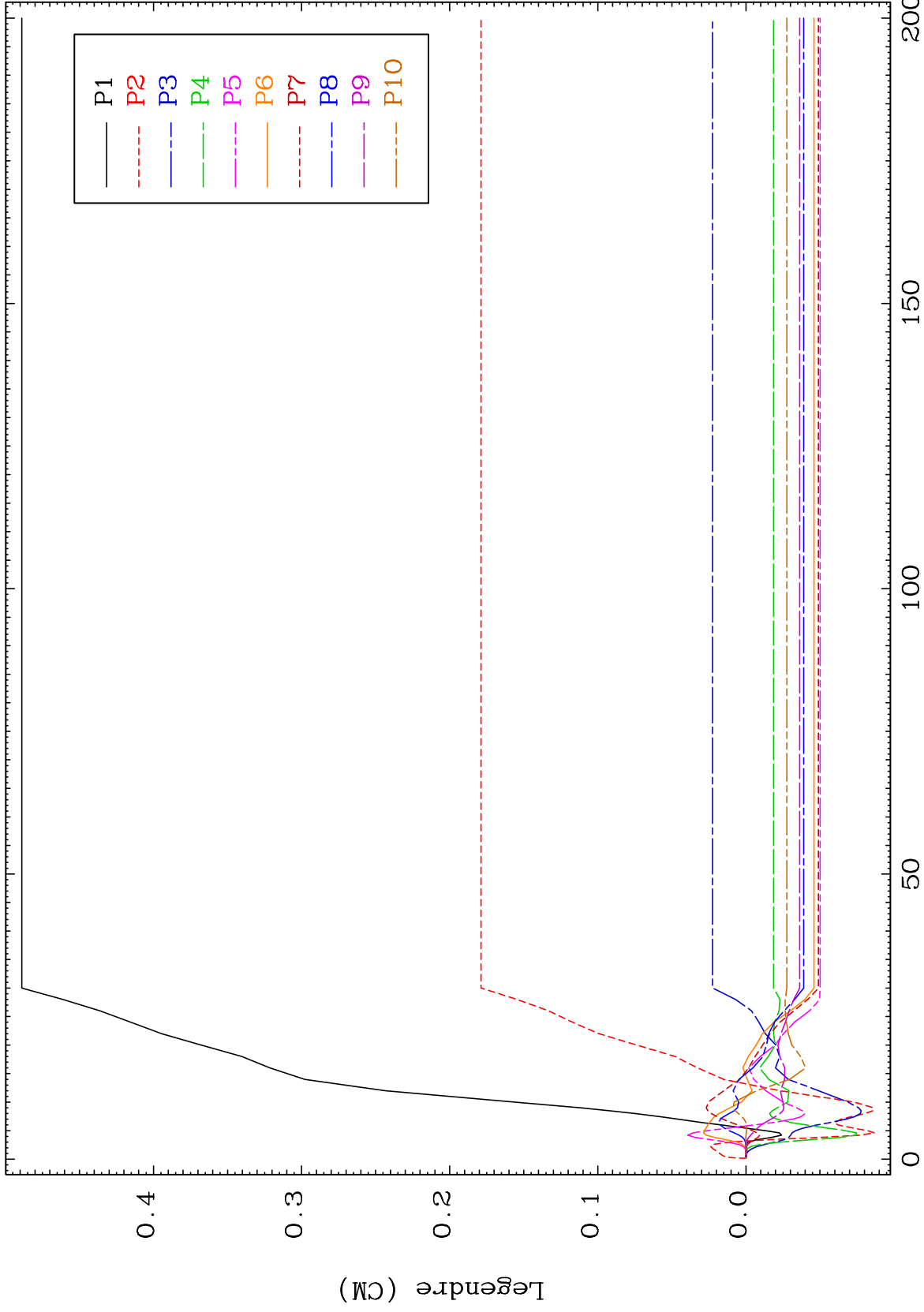




MAT 7452

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

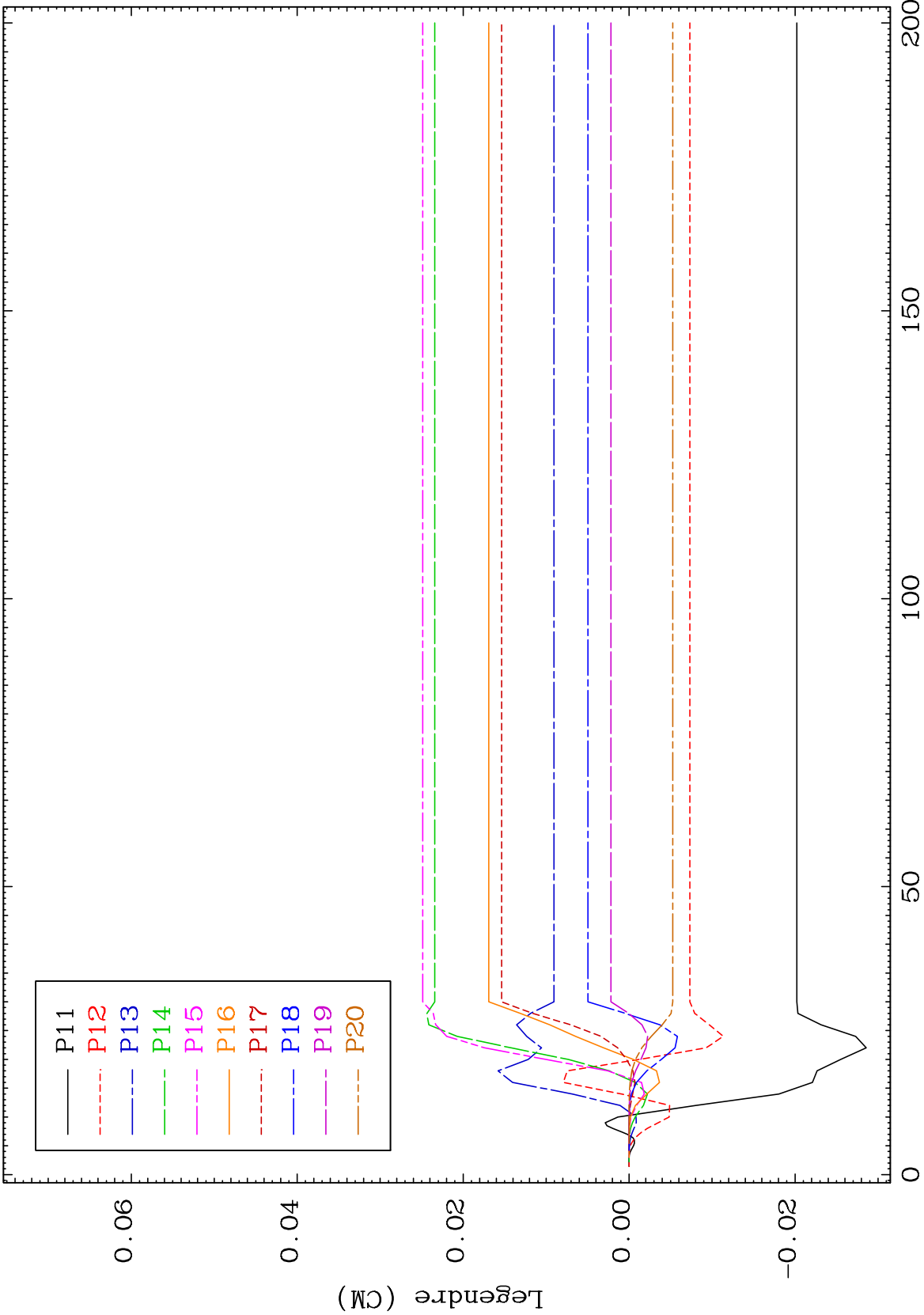
74-W -189

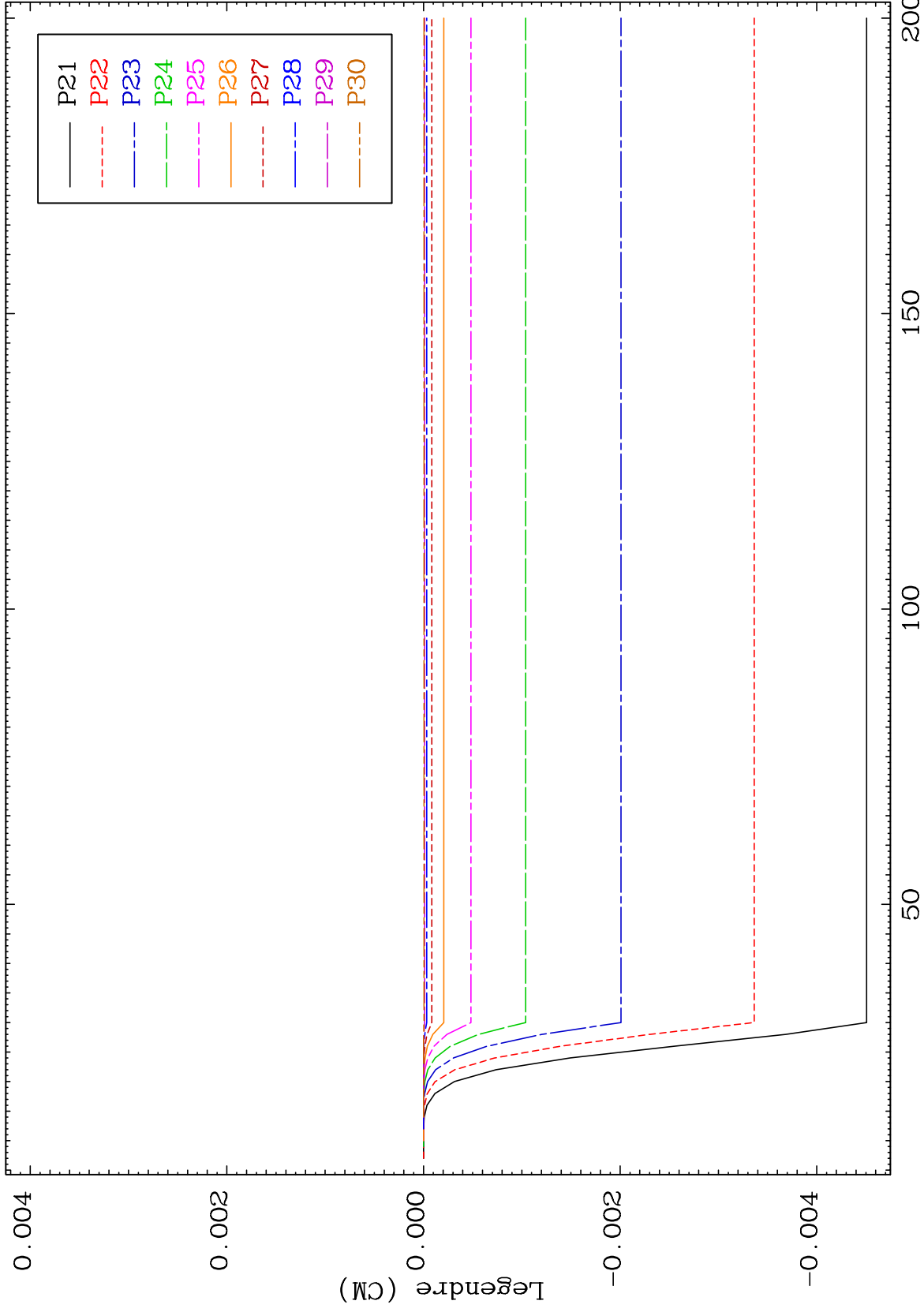


25

Incident Energy (MeV)

74-W -189

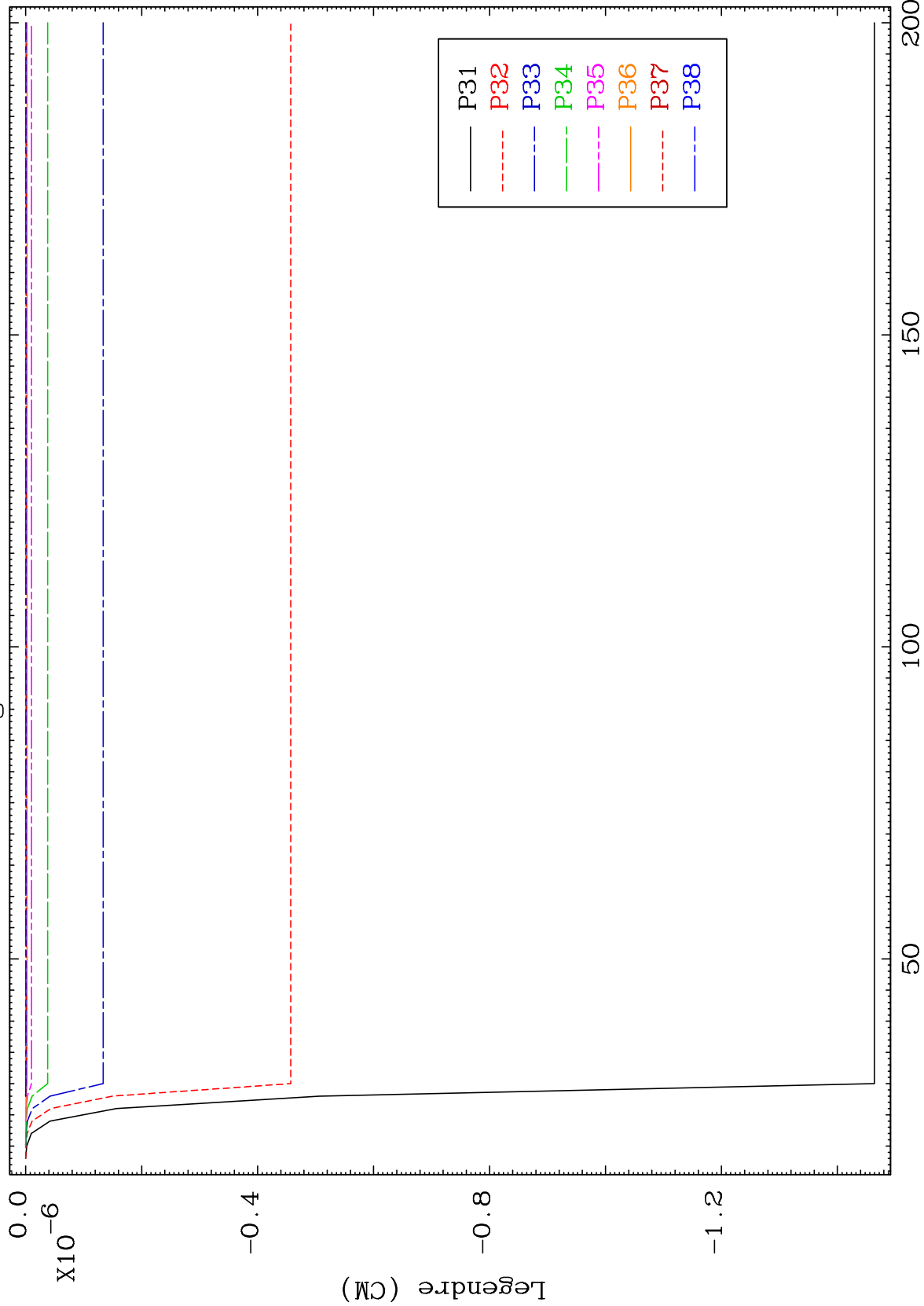




MAT 7452

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

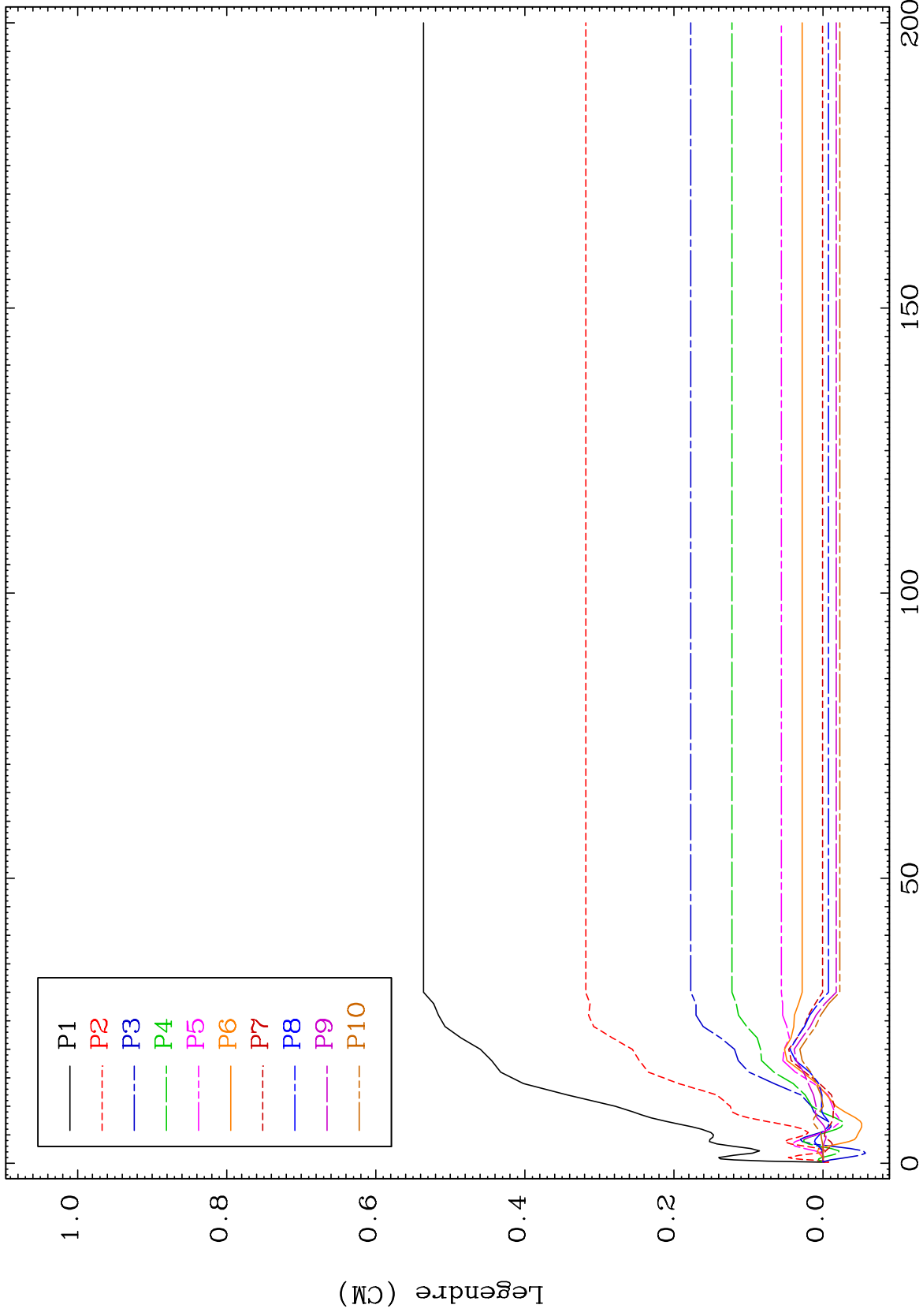
74-W -189



28

Incident Energy (MeV)

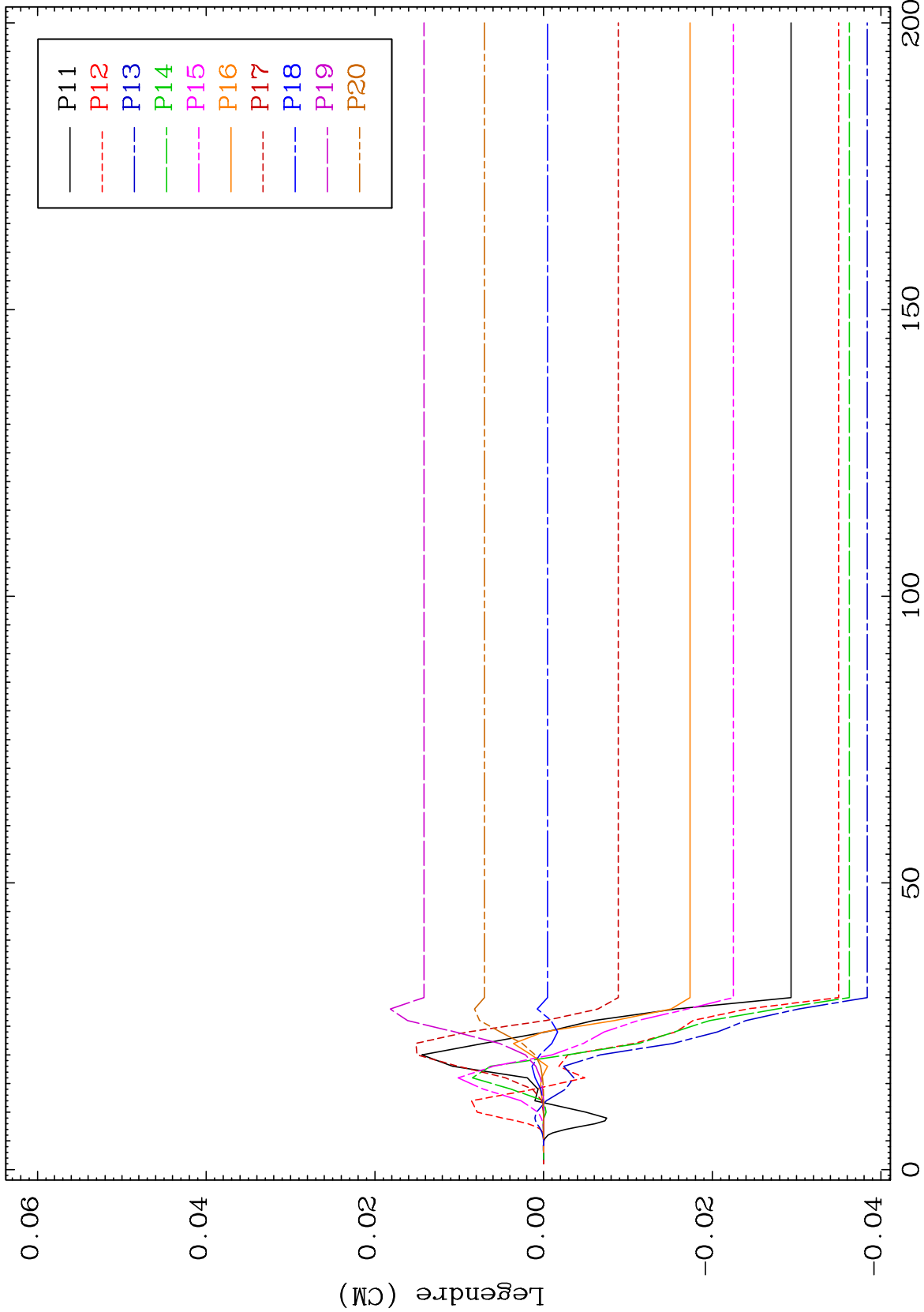
74-W -189



MAT 7452

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

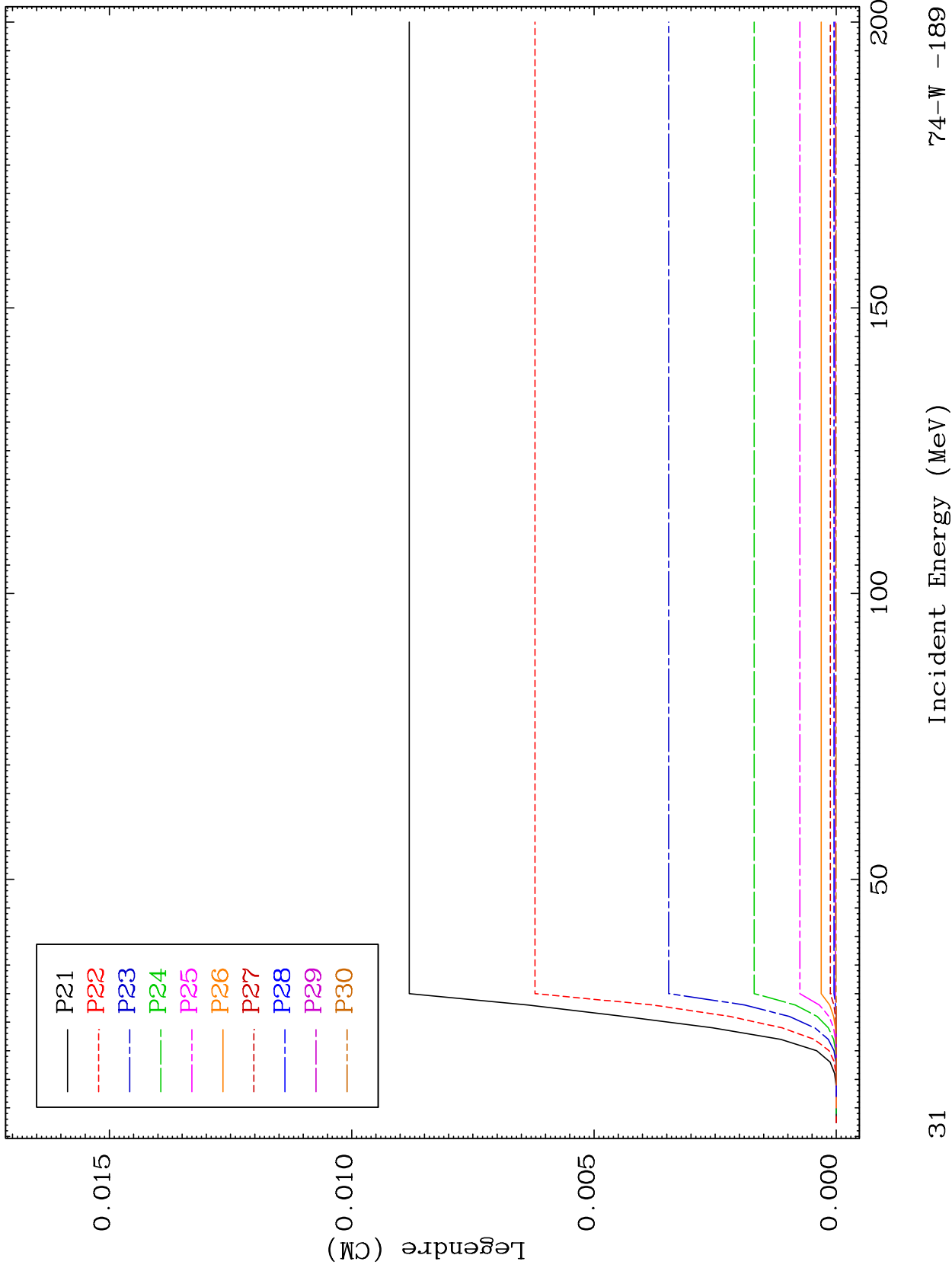
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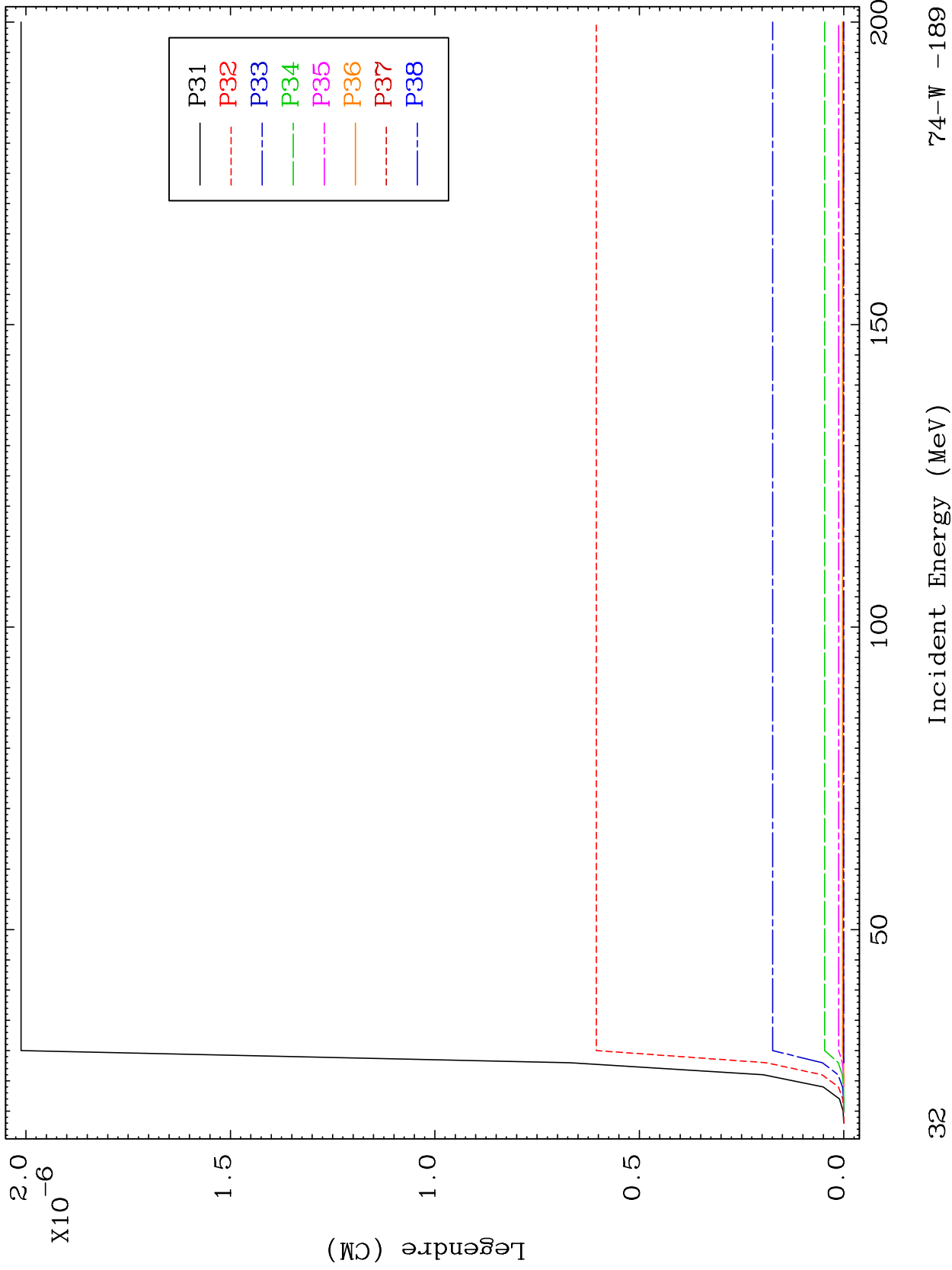


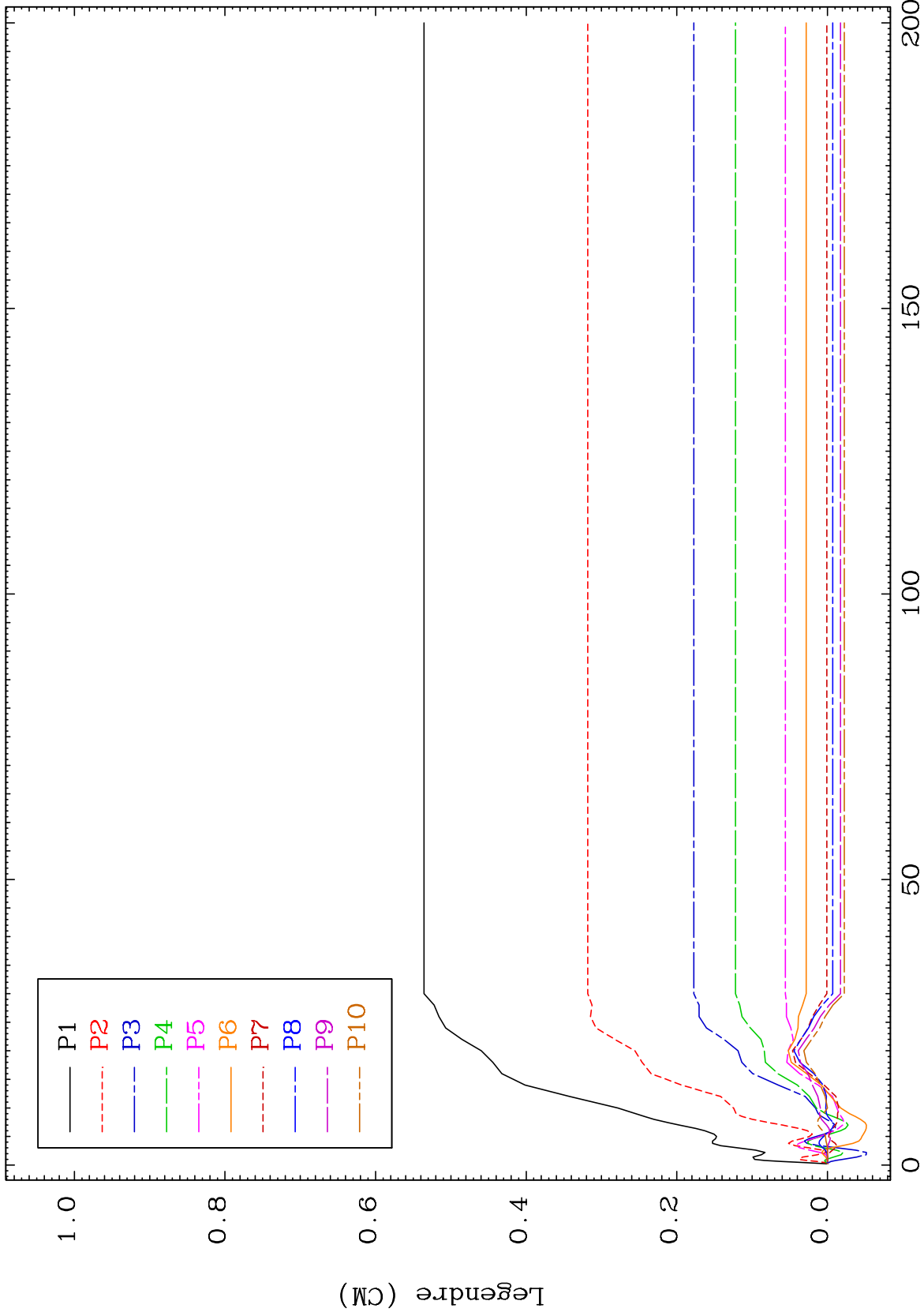
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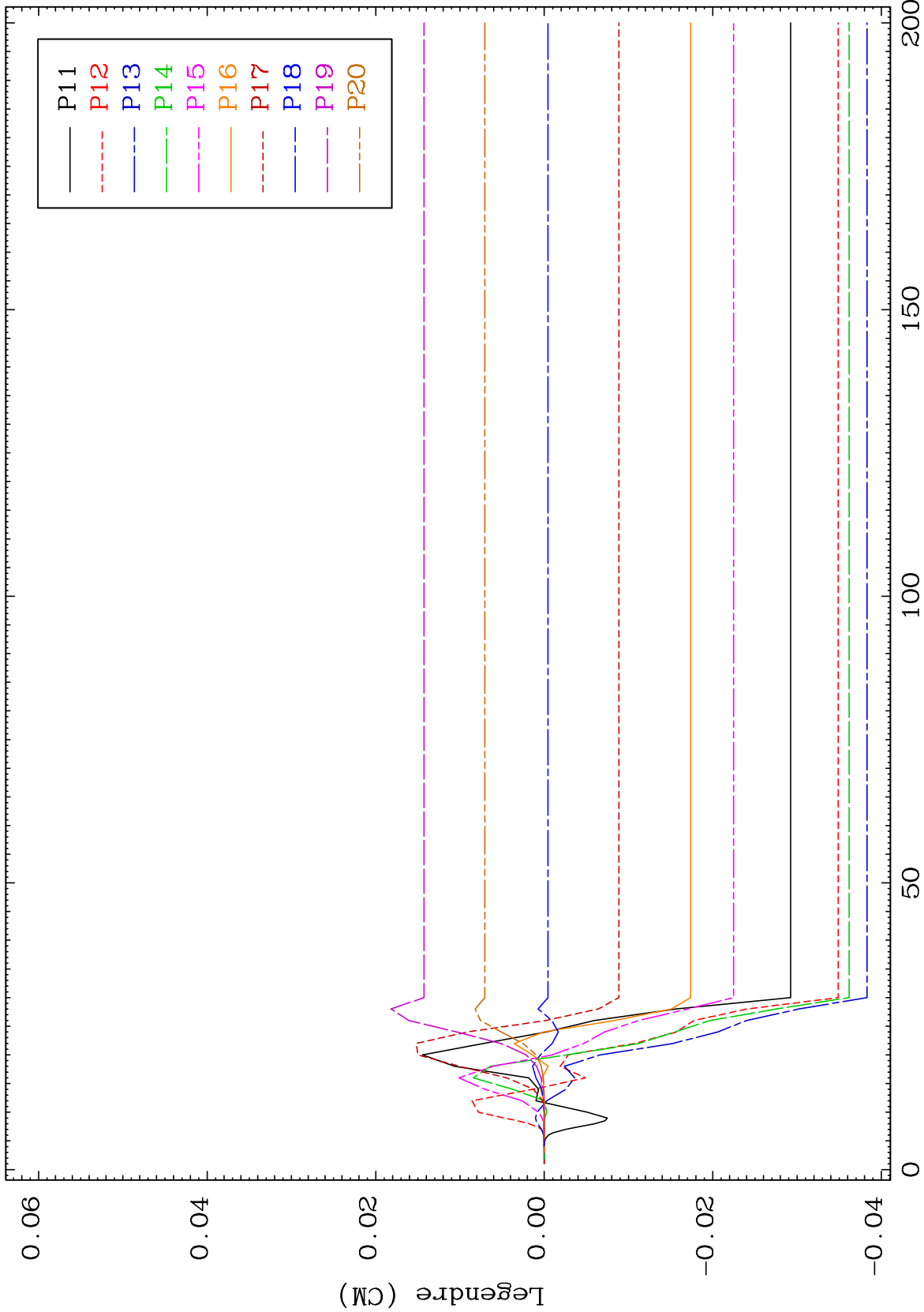
Incident Energy (MeV)

74-W -189





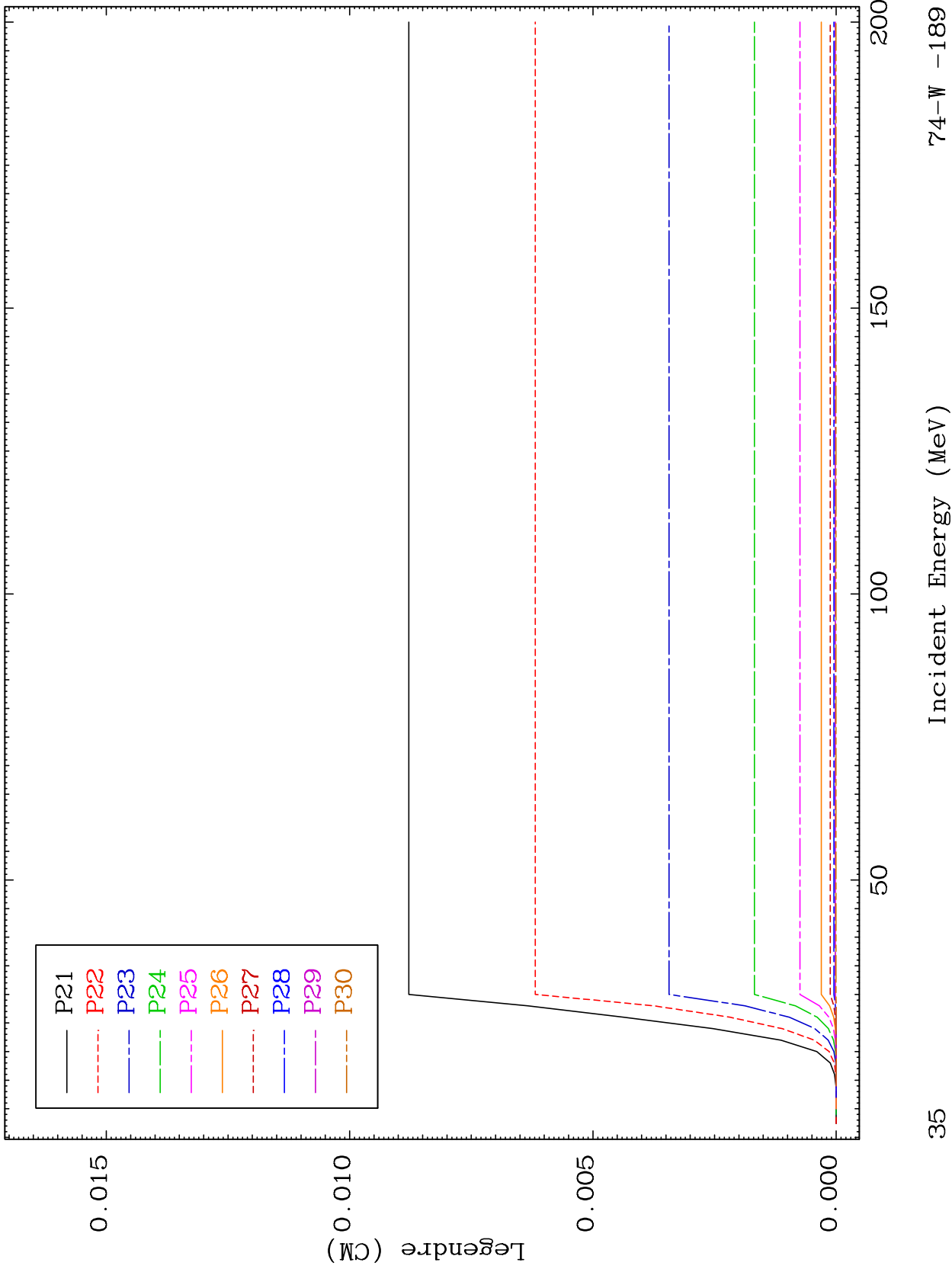




MAT 7452

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

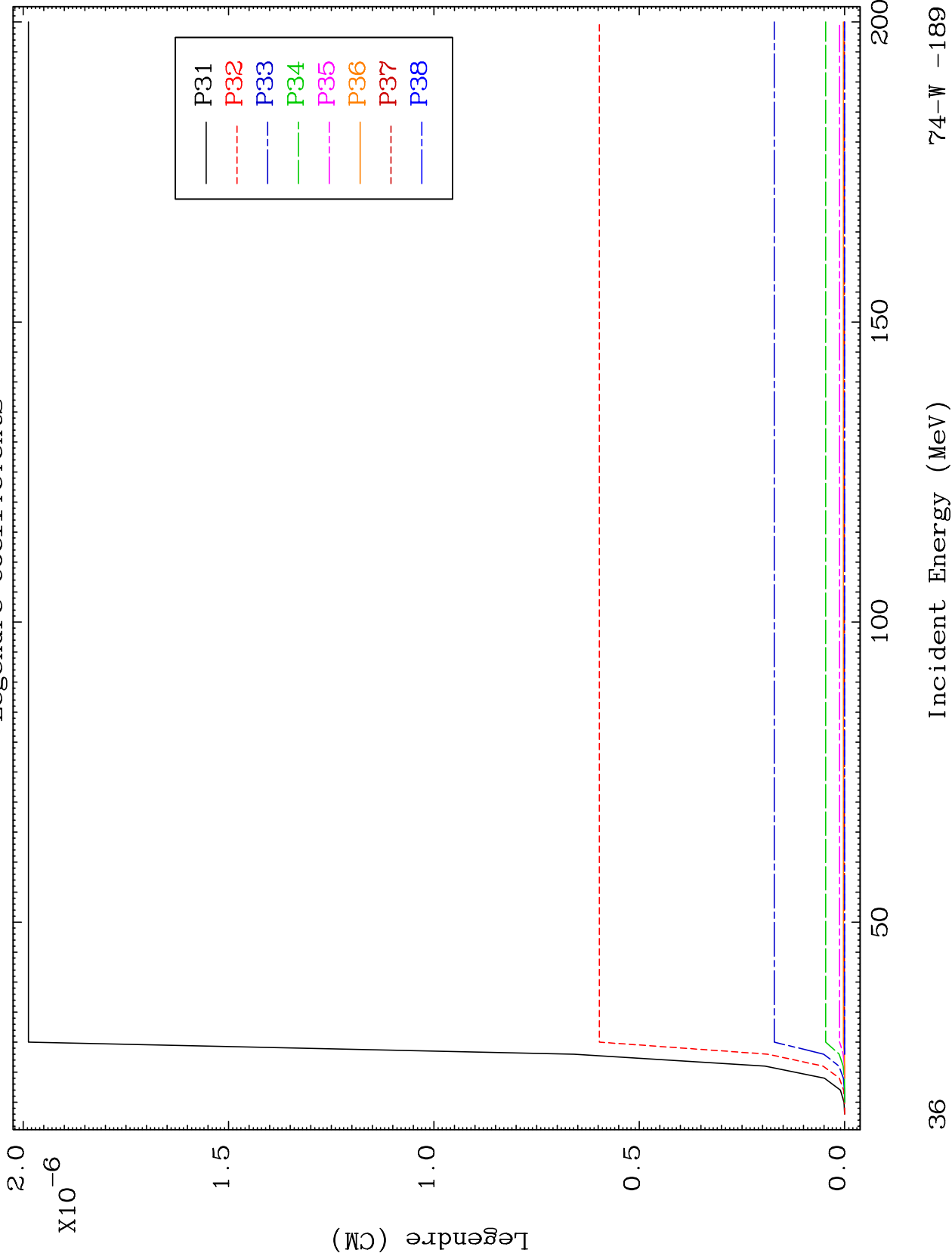
74-W -189



35

Incident Energy (MeV)

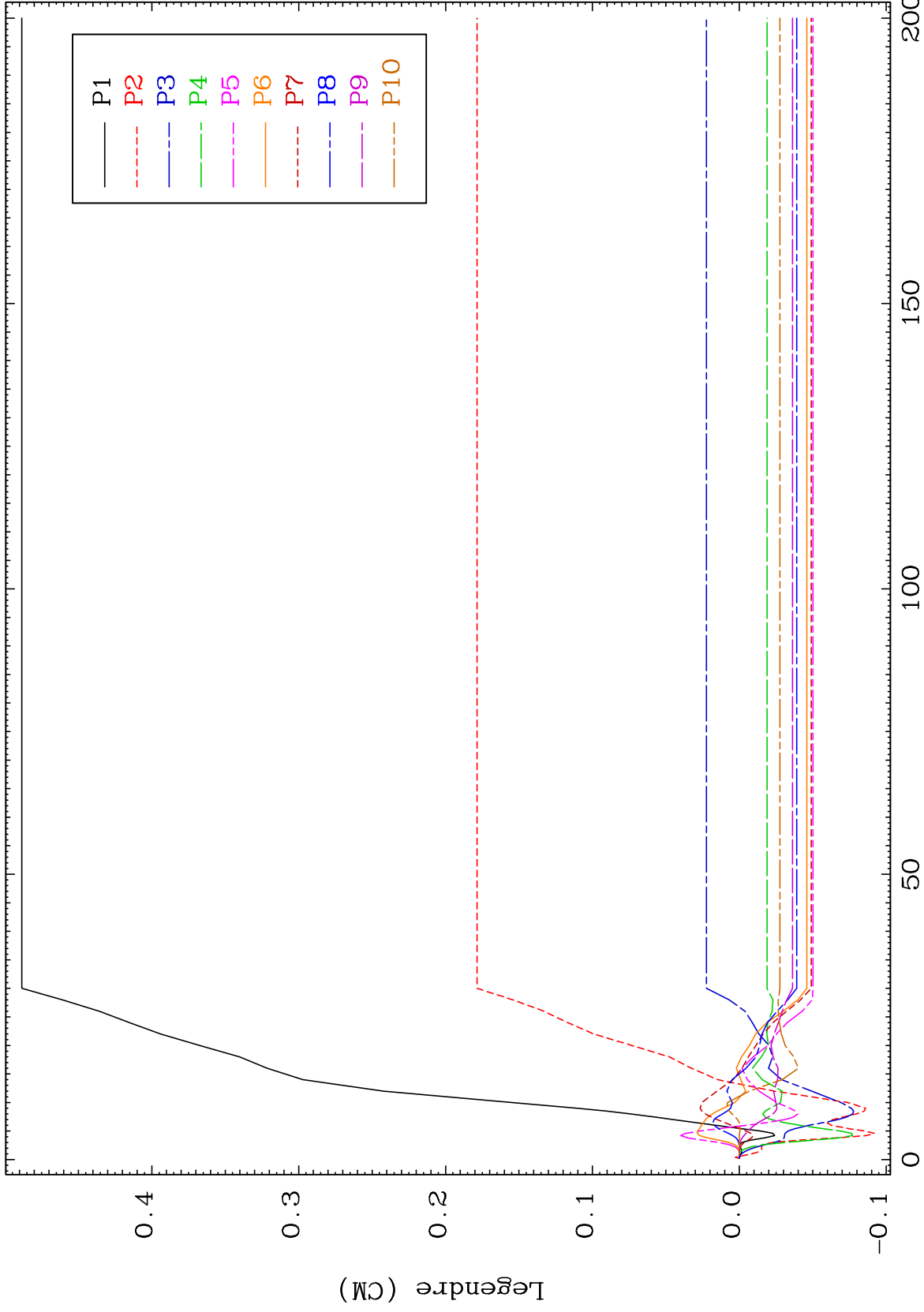
74-W -189



MAT 7452

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

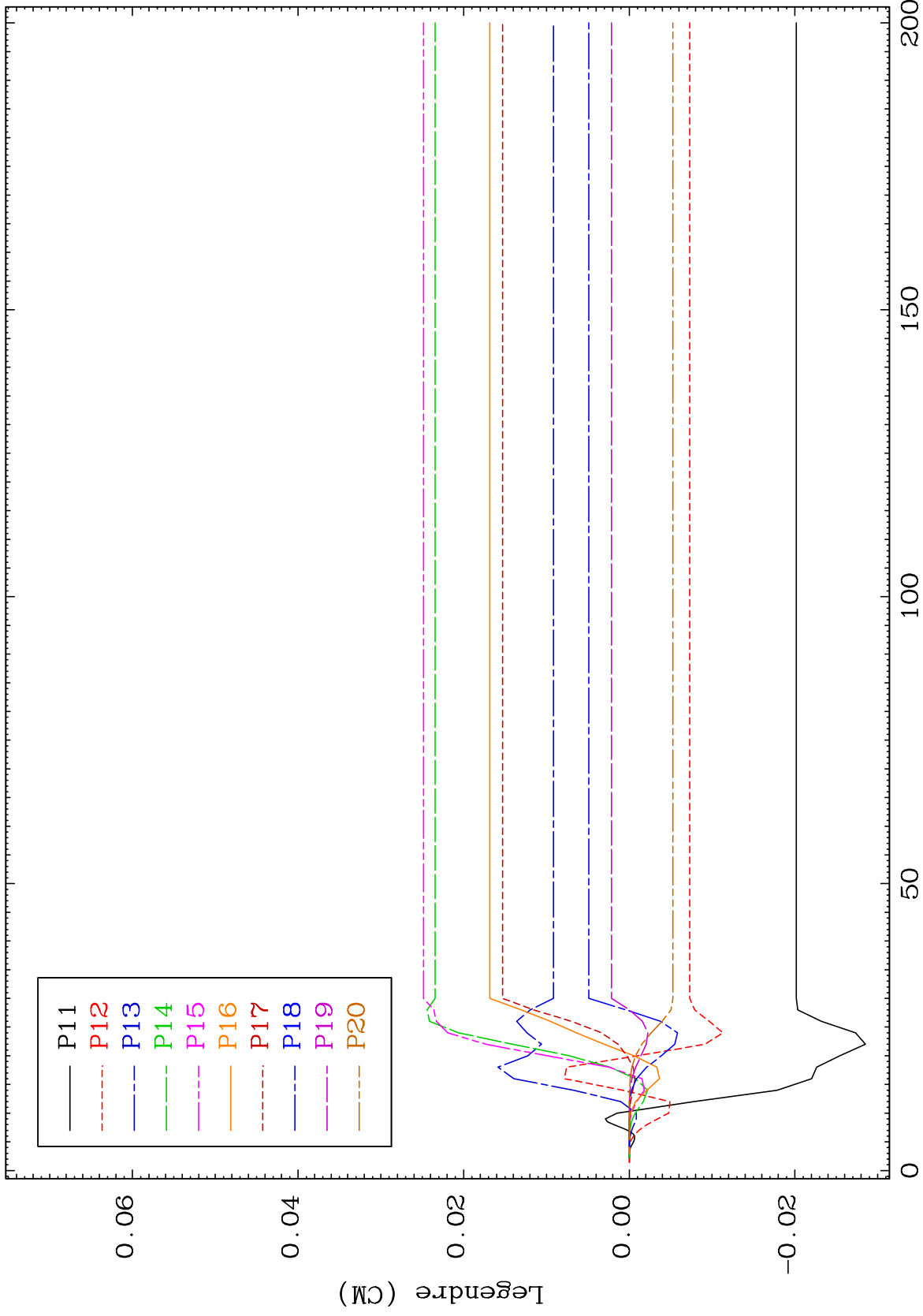
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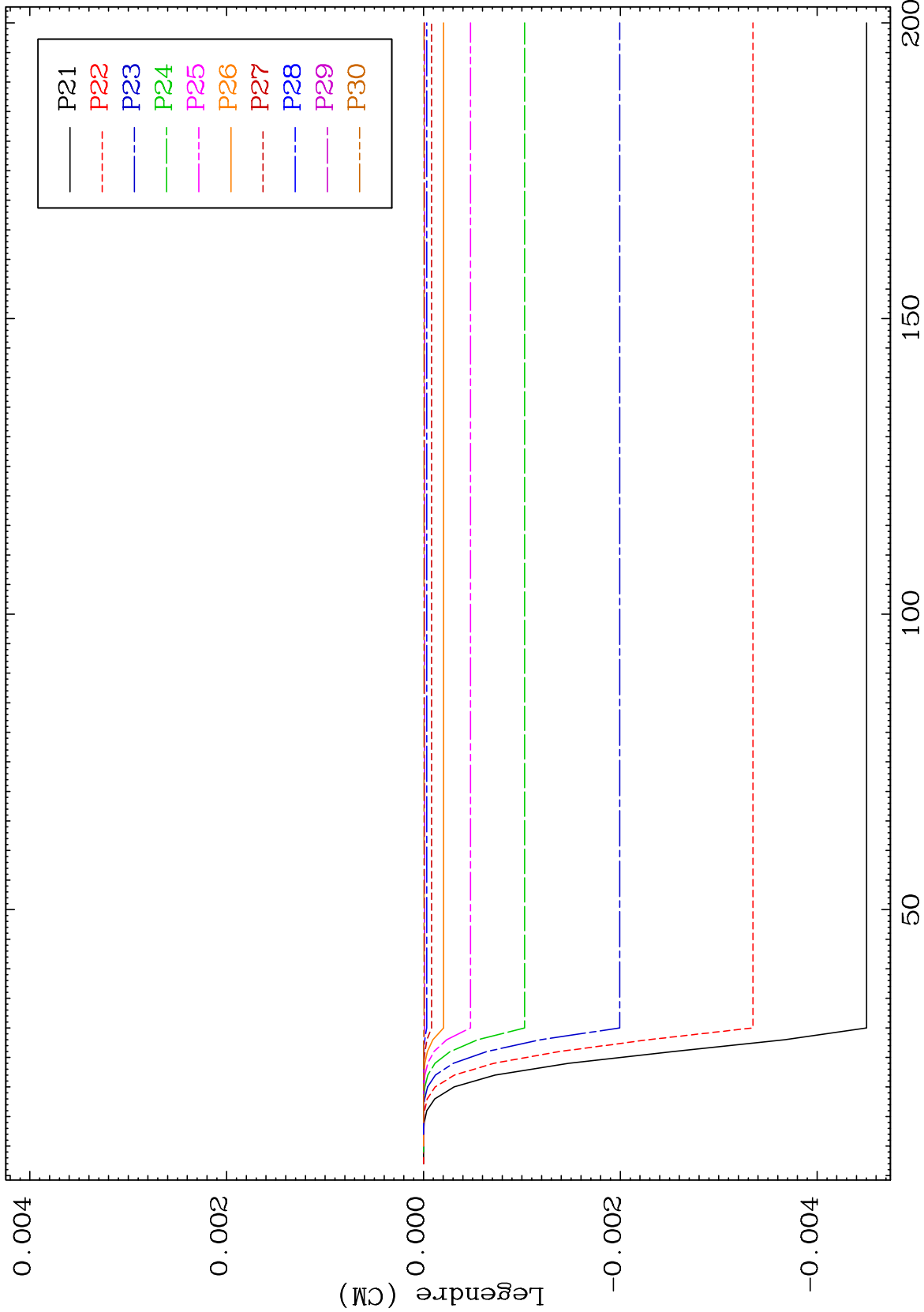


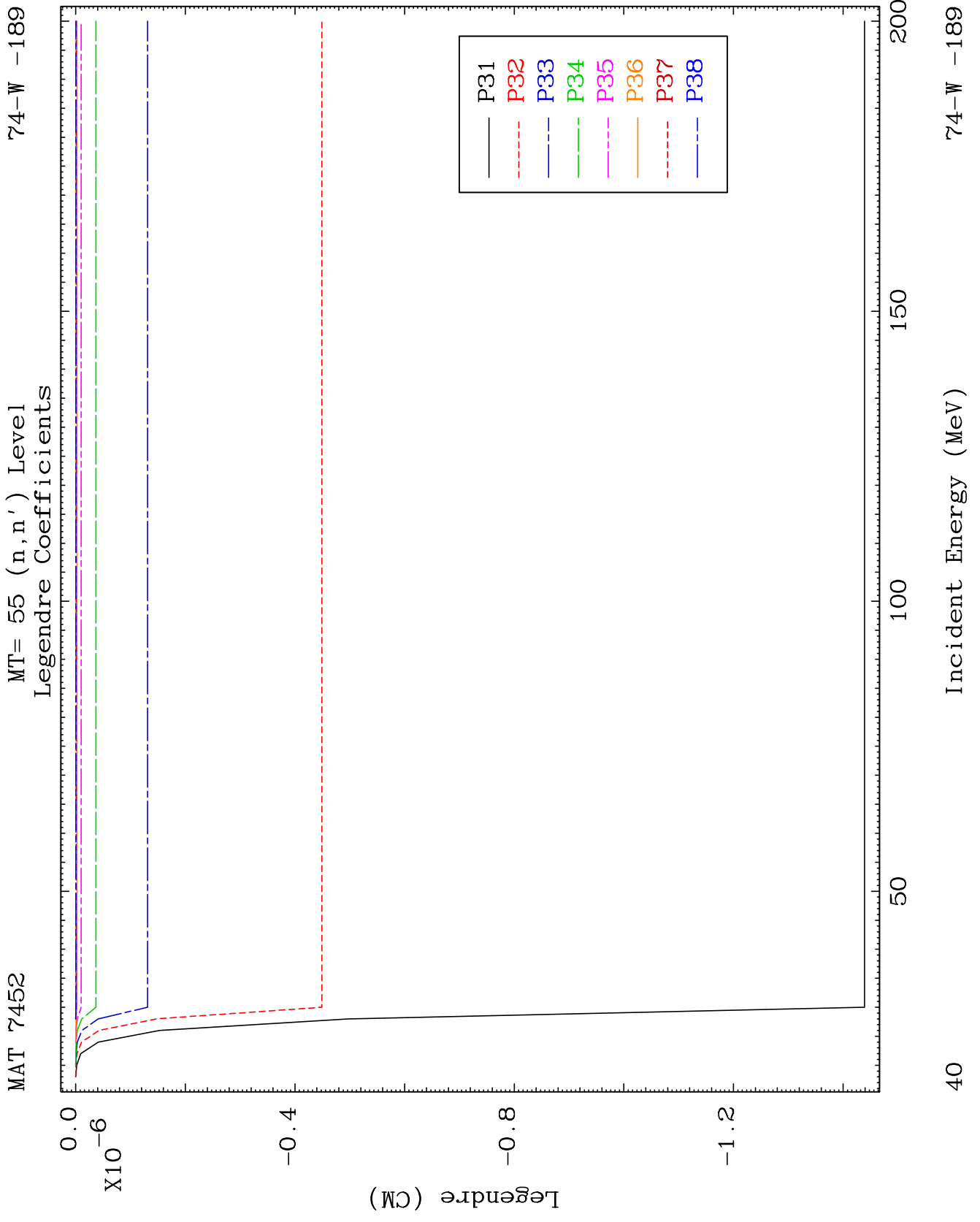
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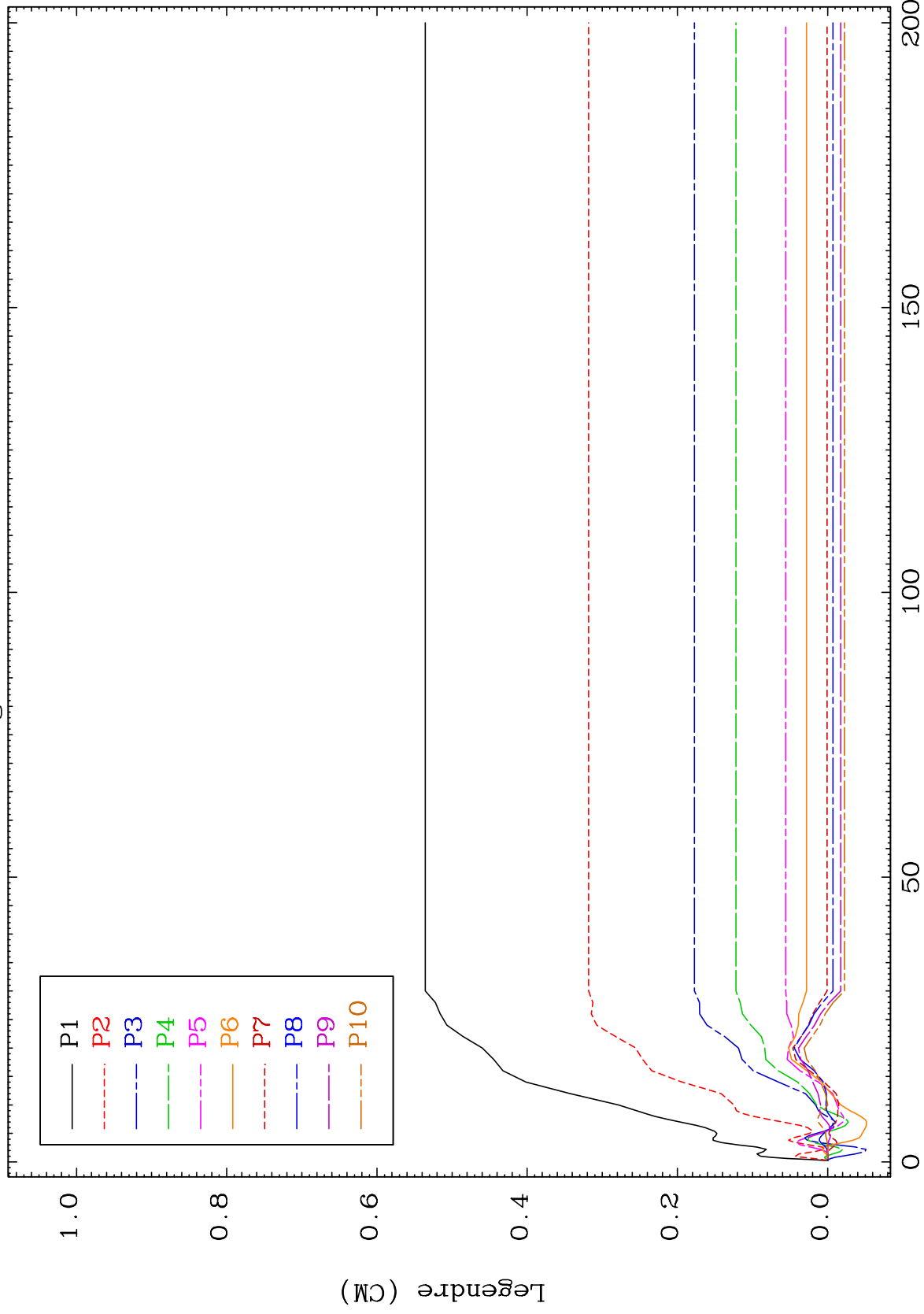
Incident Energy (MeV)

74-W -189





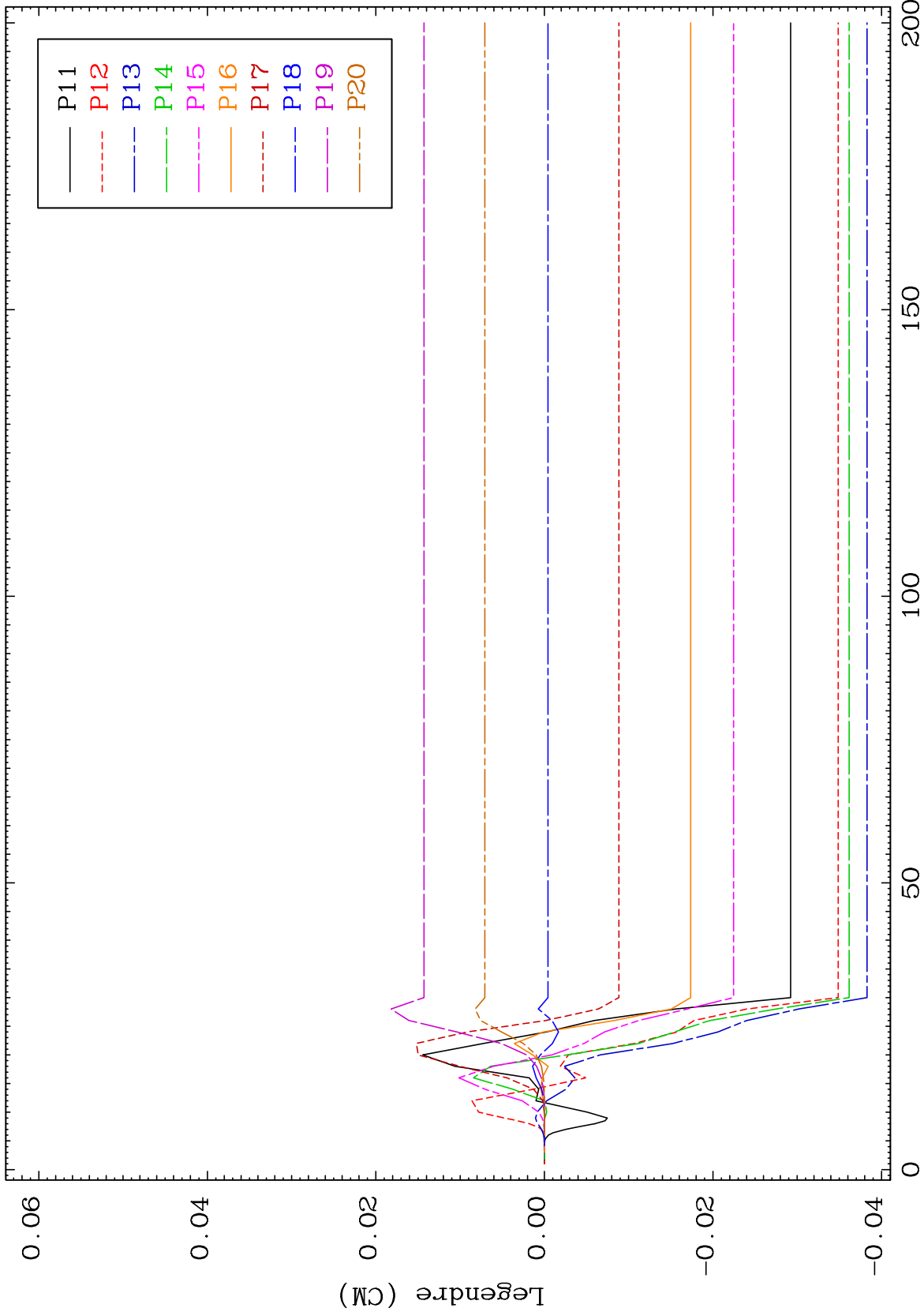




MAT 7452

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

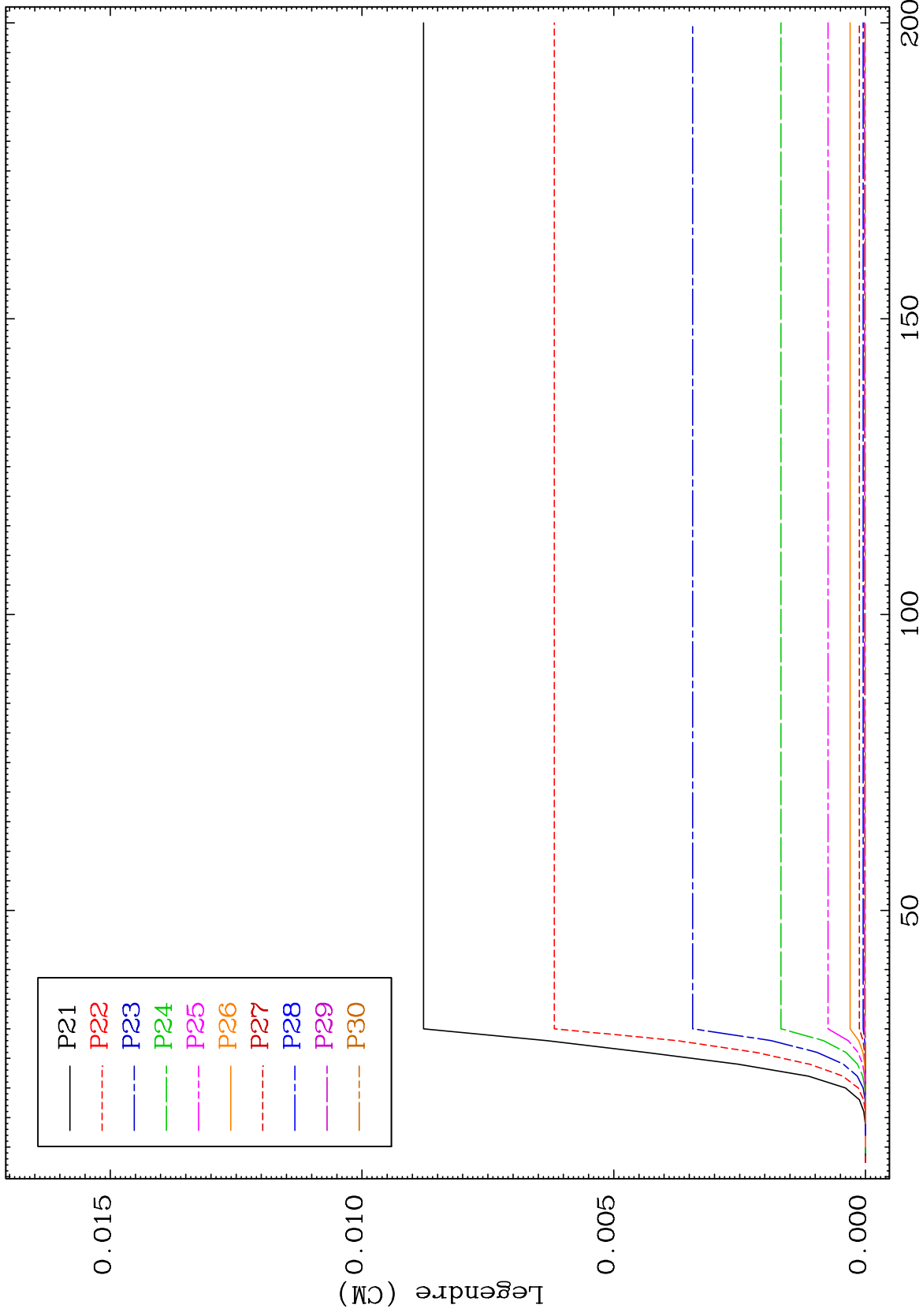
74-W -189

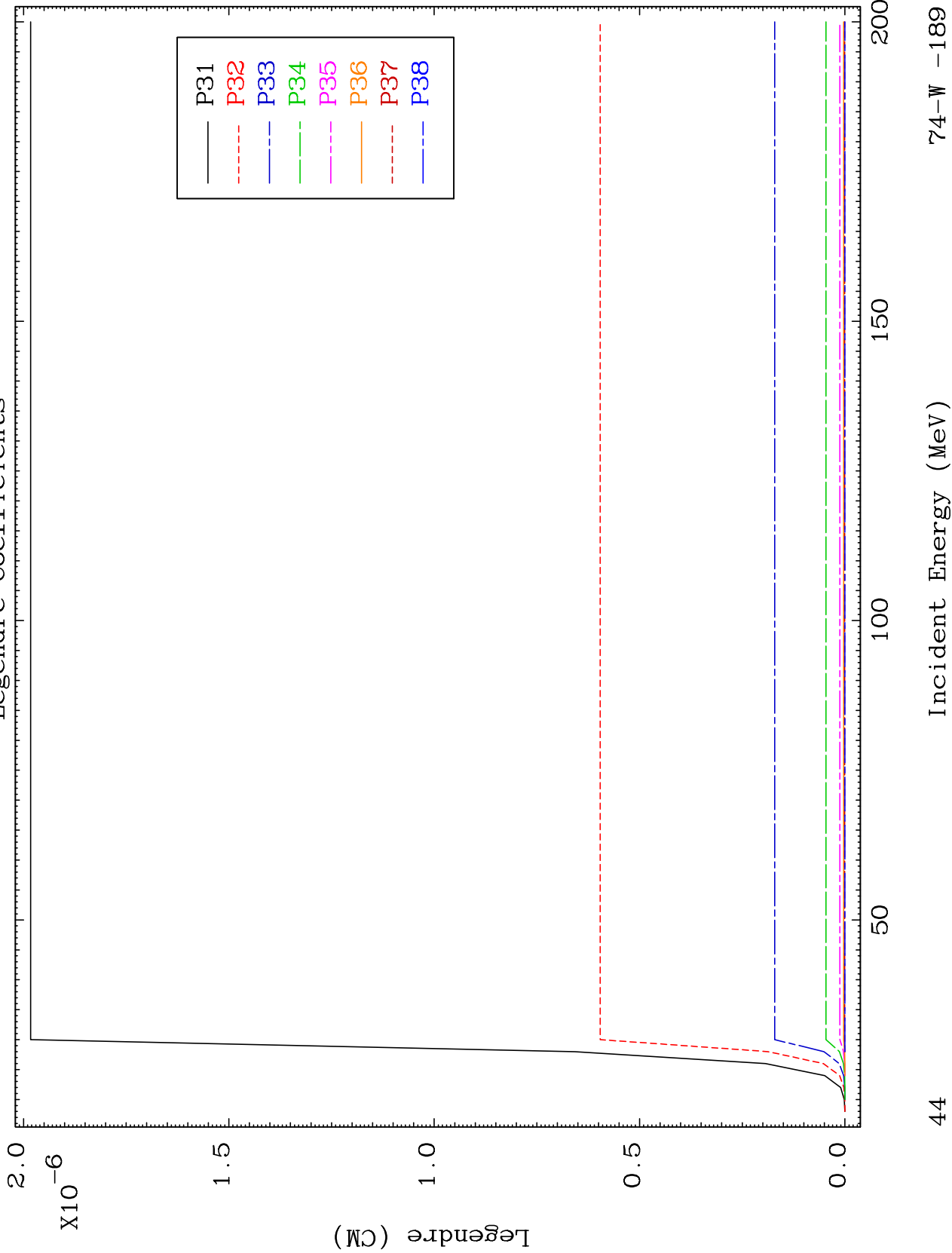


42

Incident Energy (MeV)

74-W -189

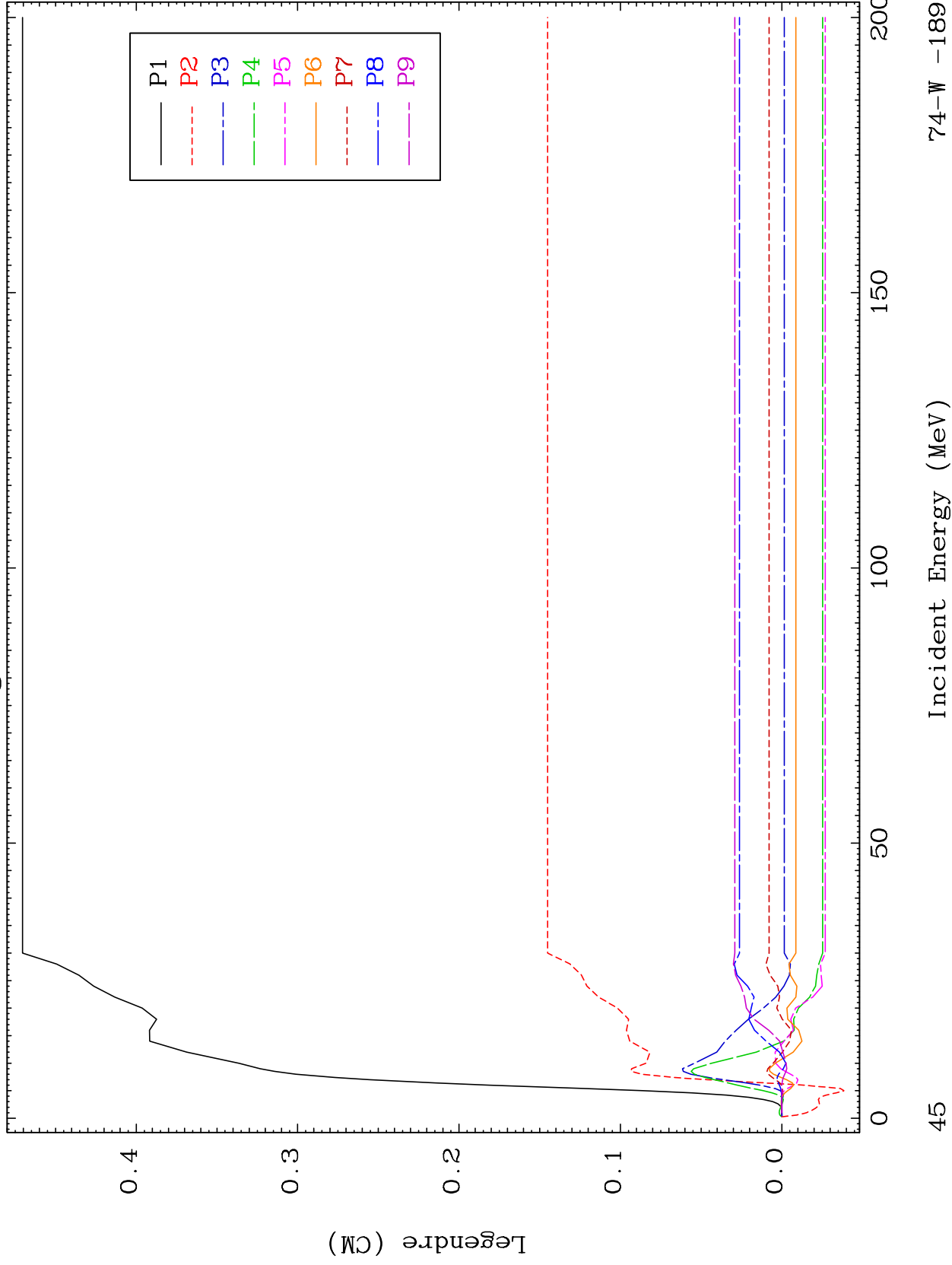




MAT 7452

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

74-W -189

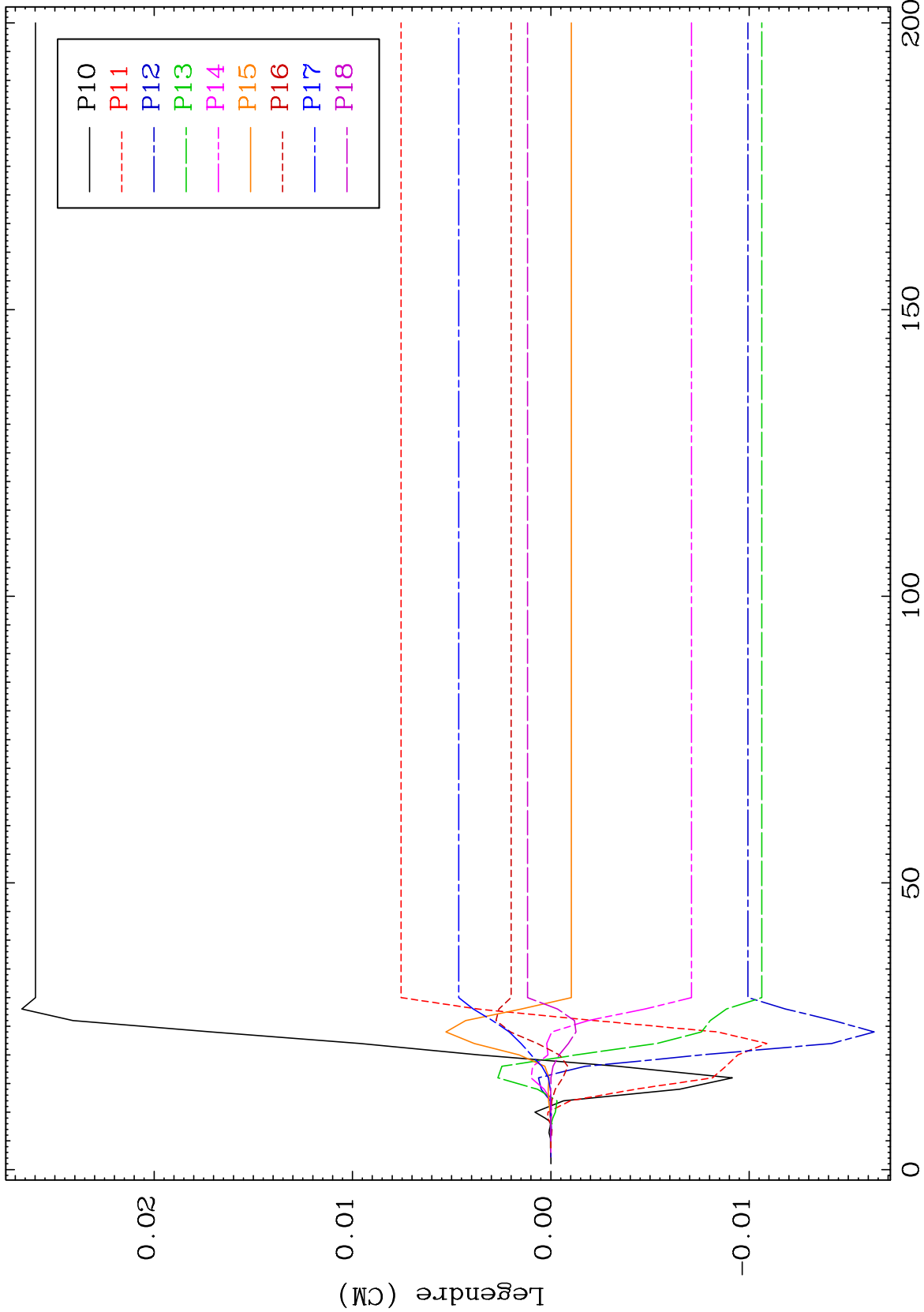


74-W -189

MAT 7452

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

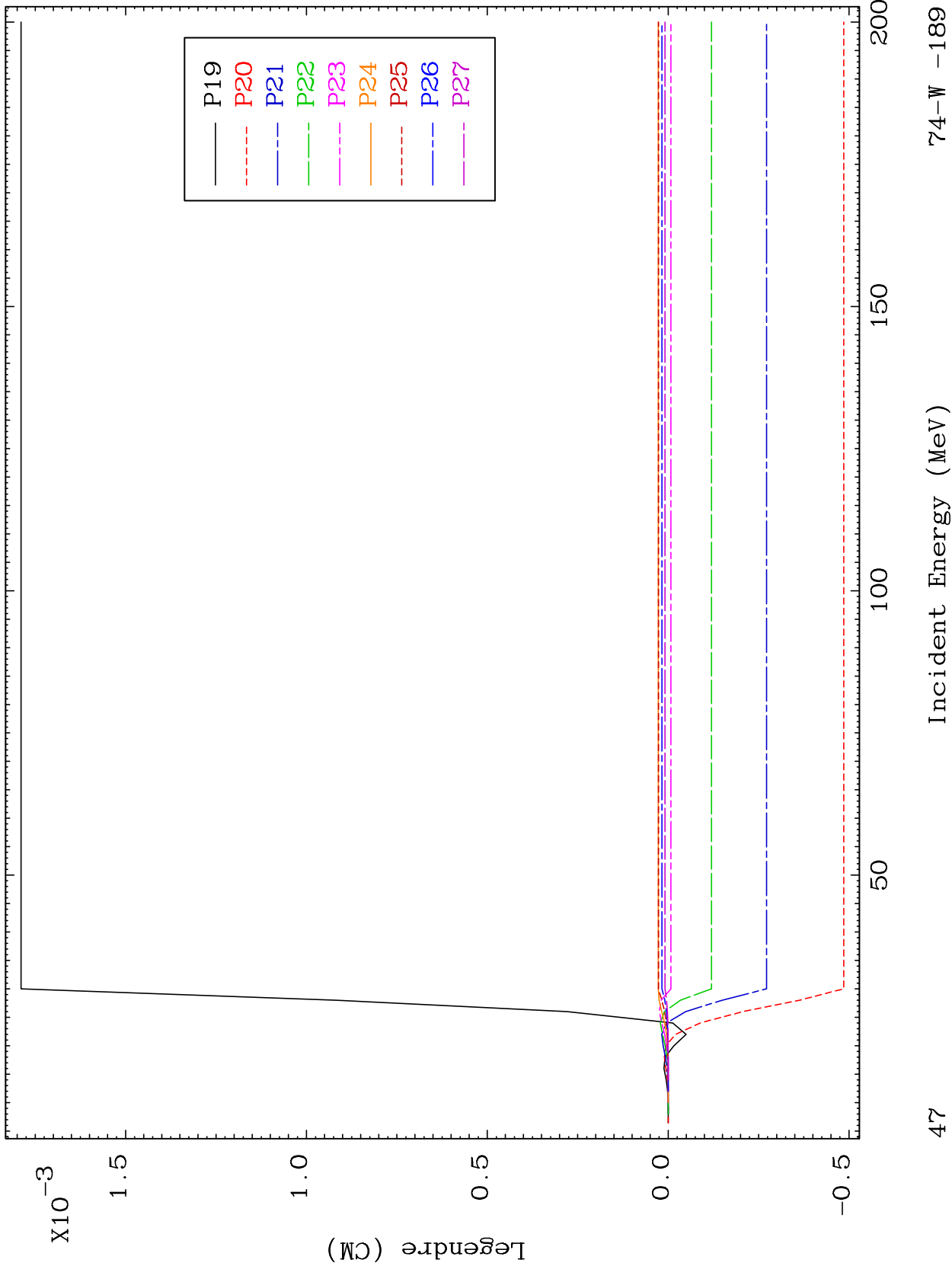
74-W -189



46

Incident Energy (MeV)

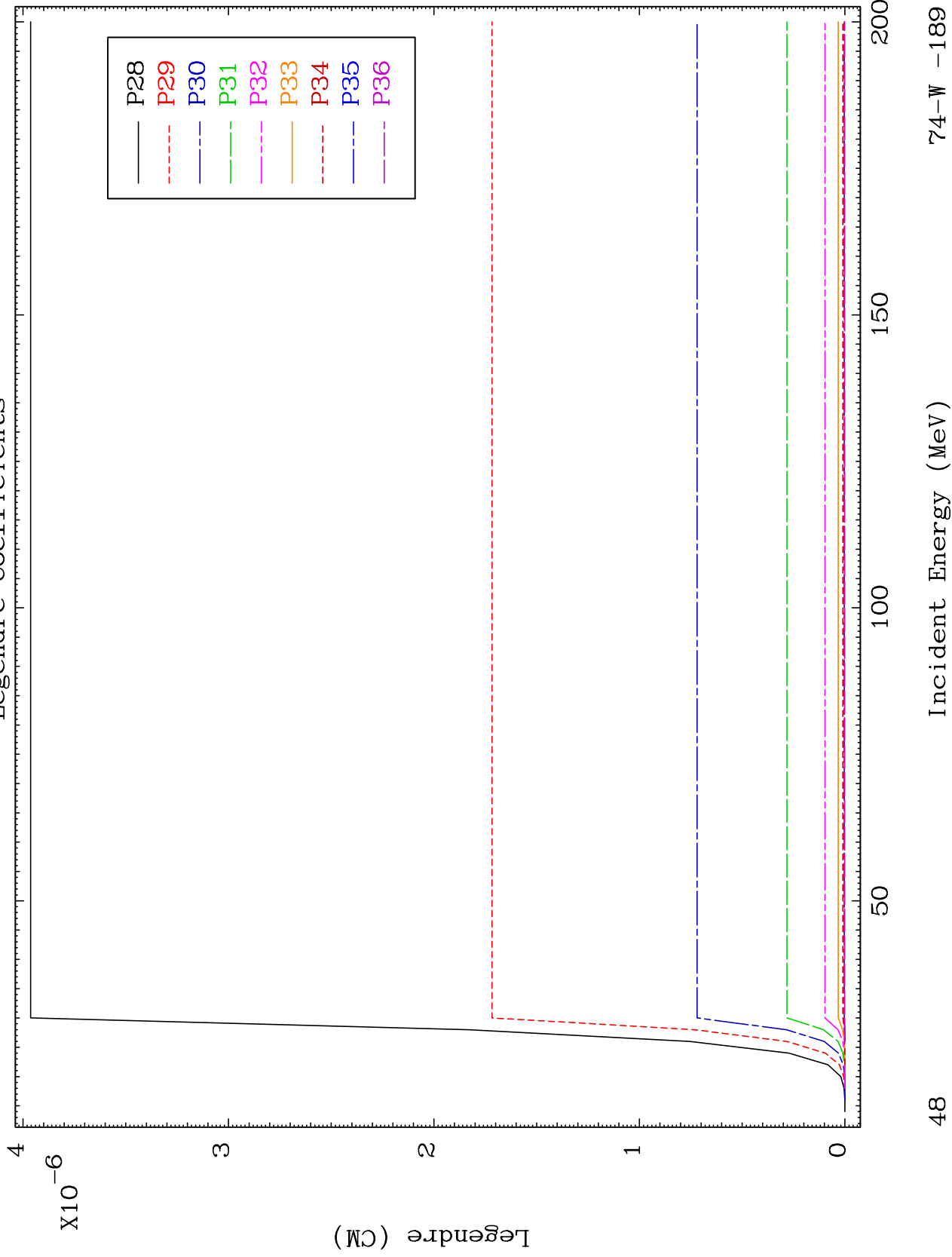
74-W -189



MAT 7452

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

74-W -189



48

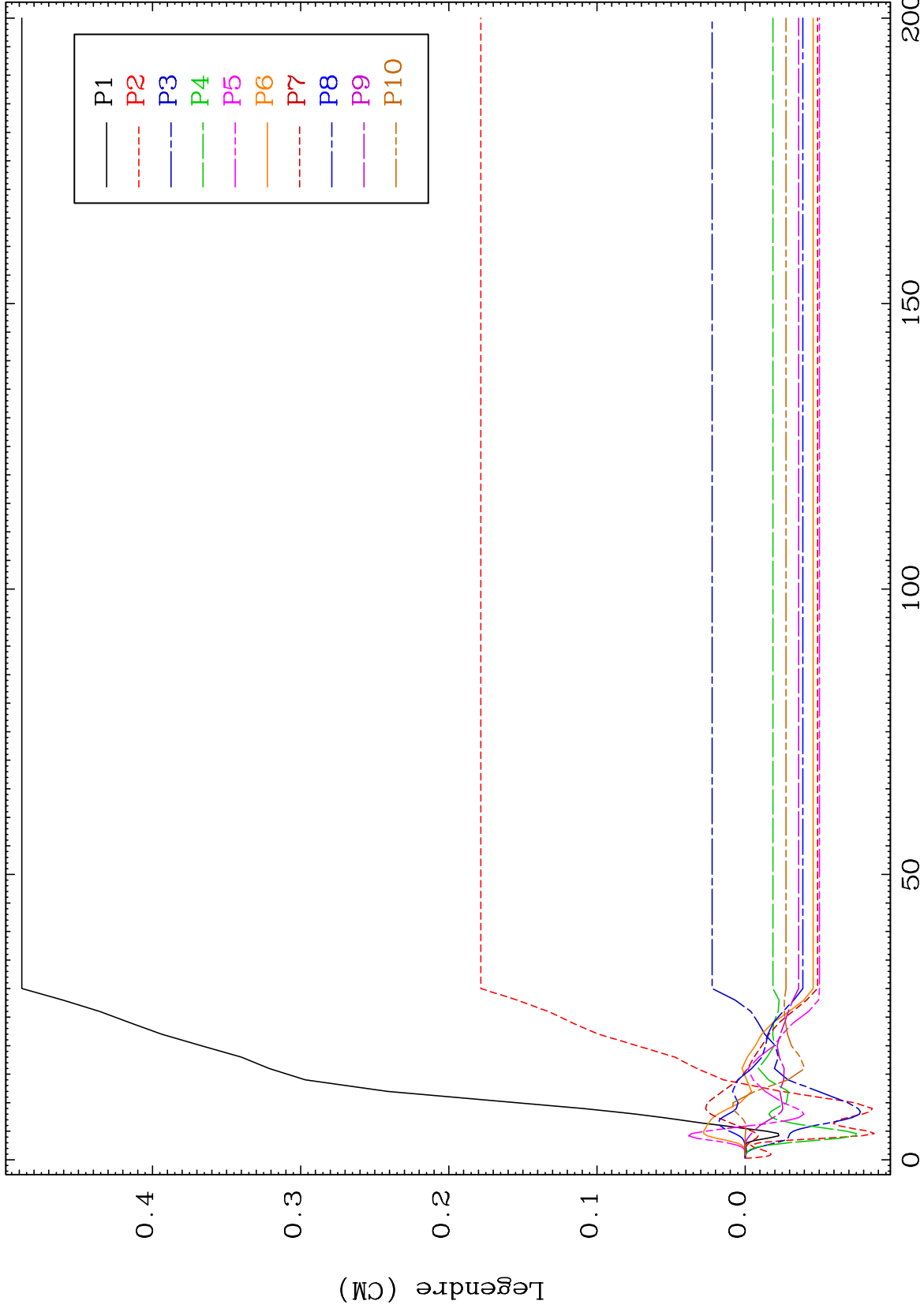
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



49

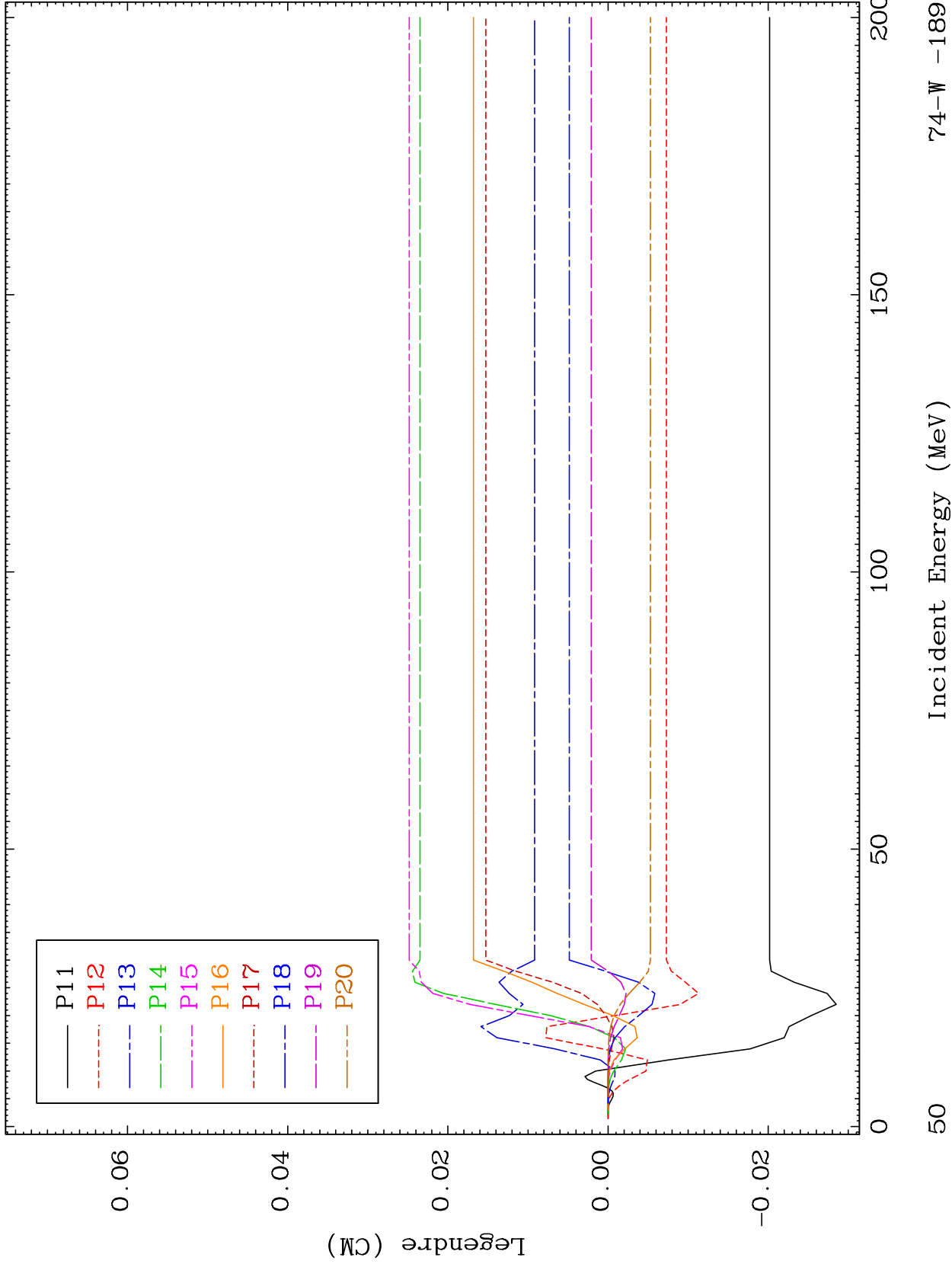
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74-W -189

MAT 7452

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

74-W -189

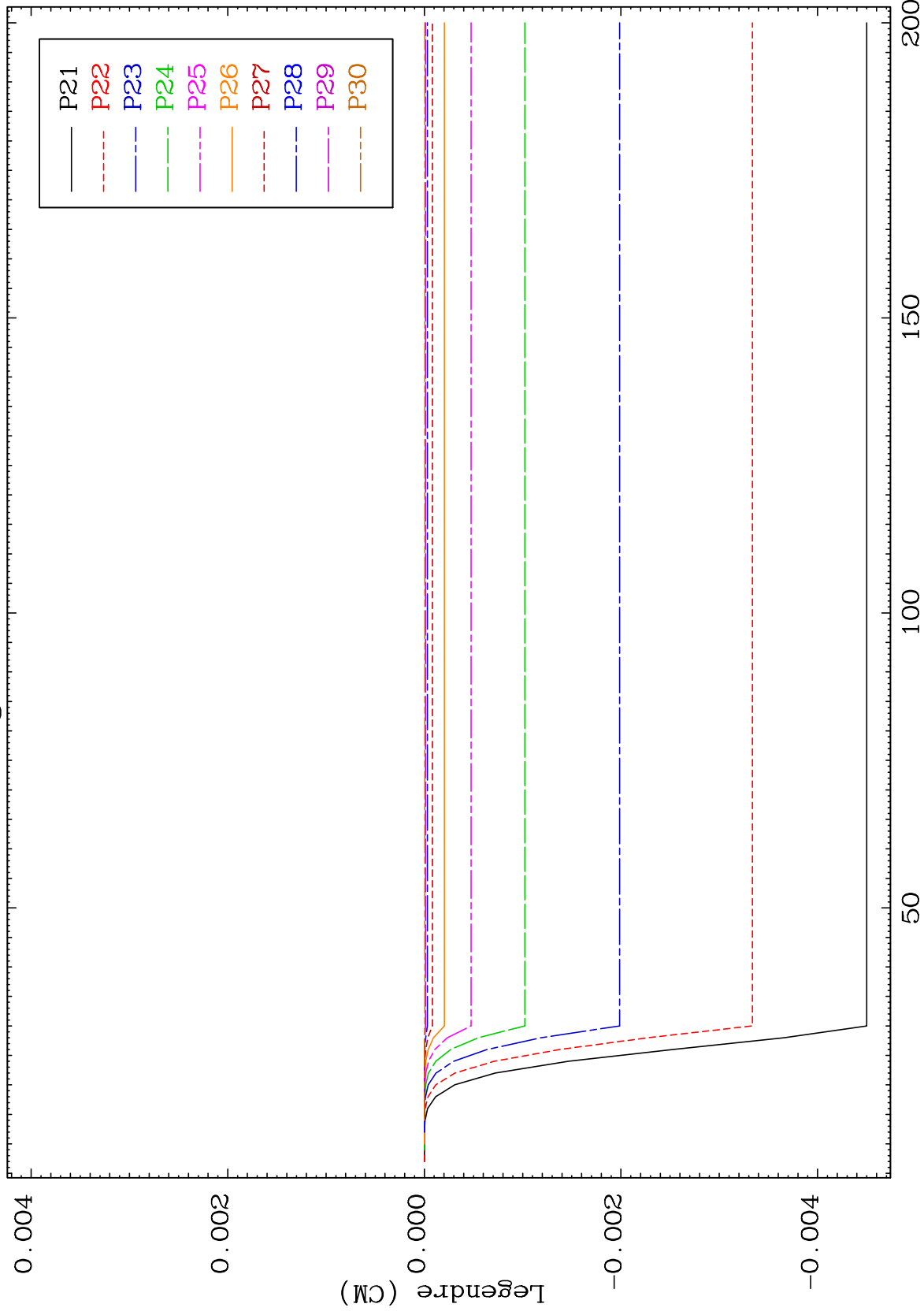


74-W -189

MAT 7452

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

74-W -189



51

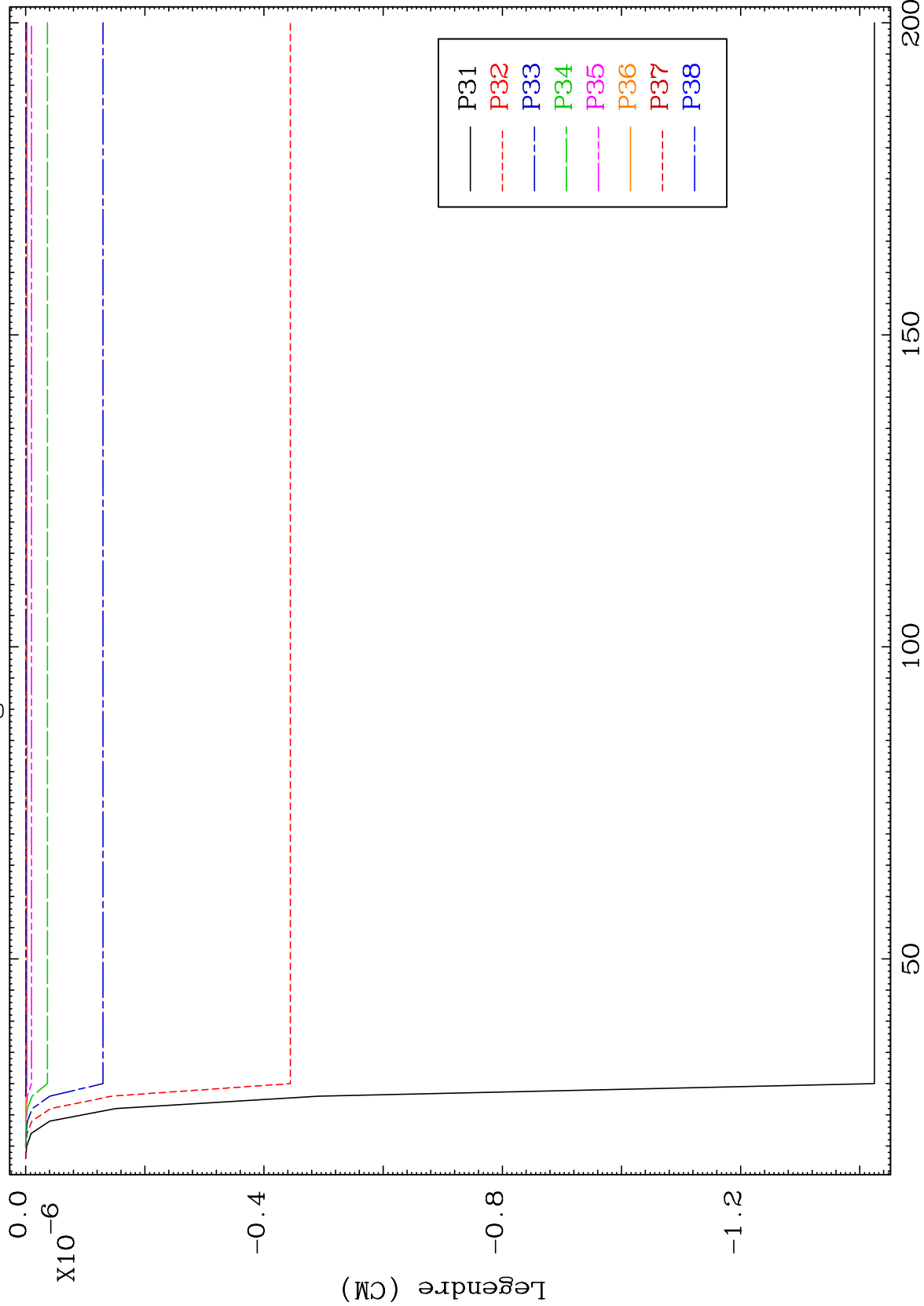
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



52

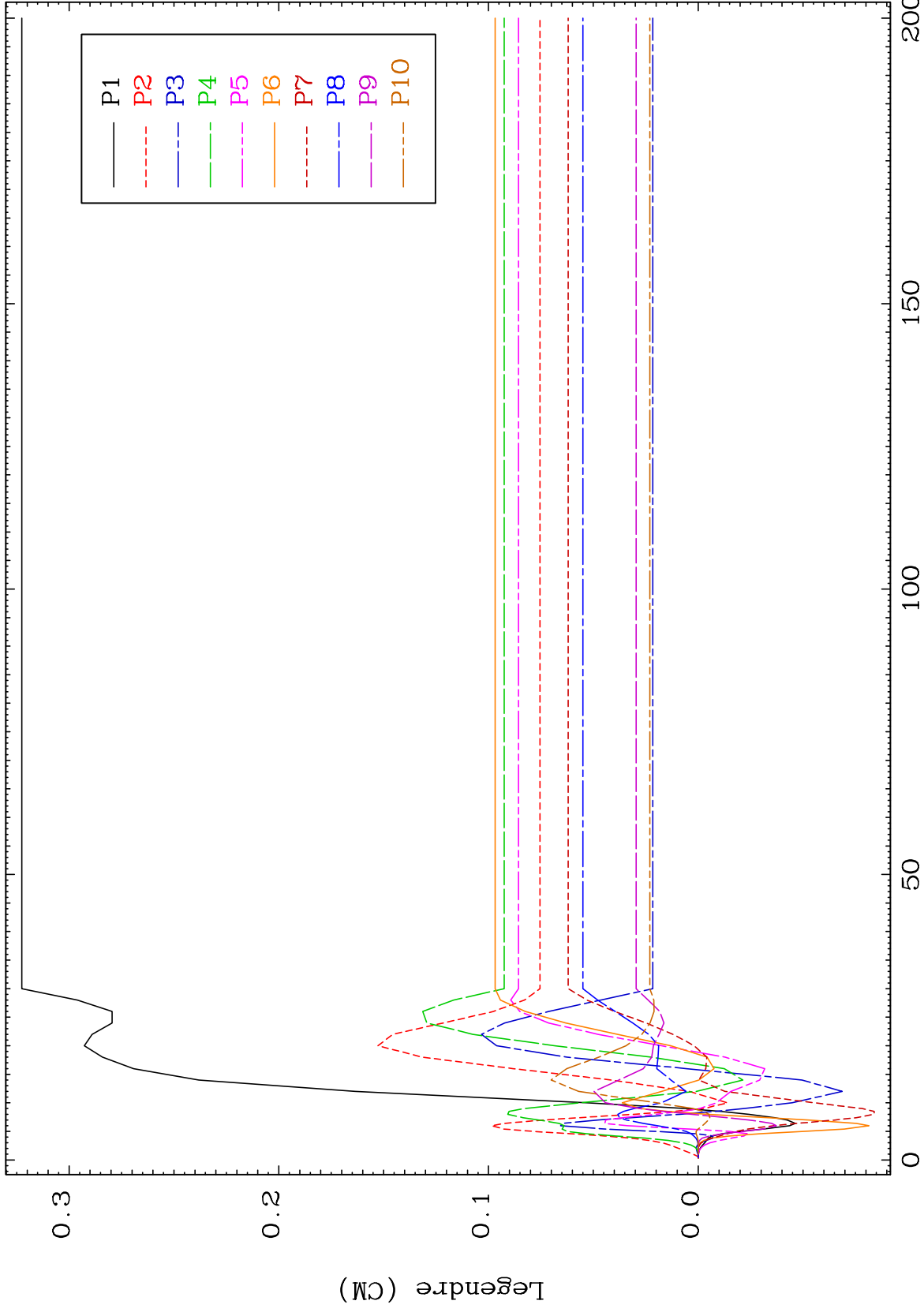
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



53

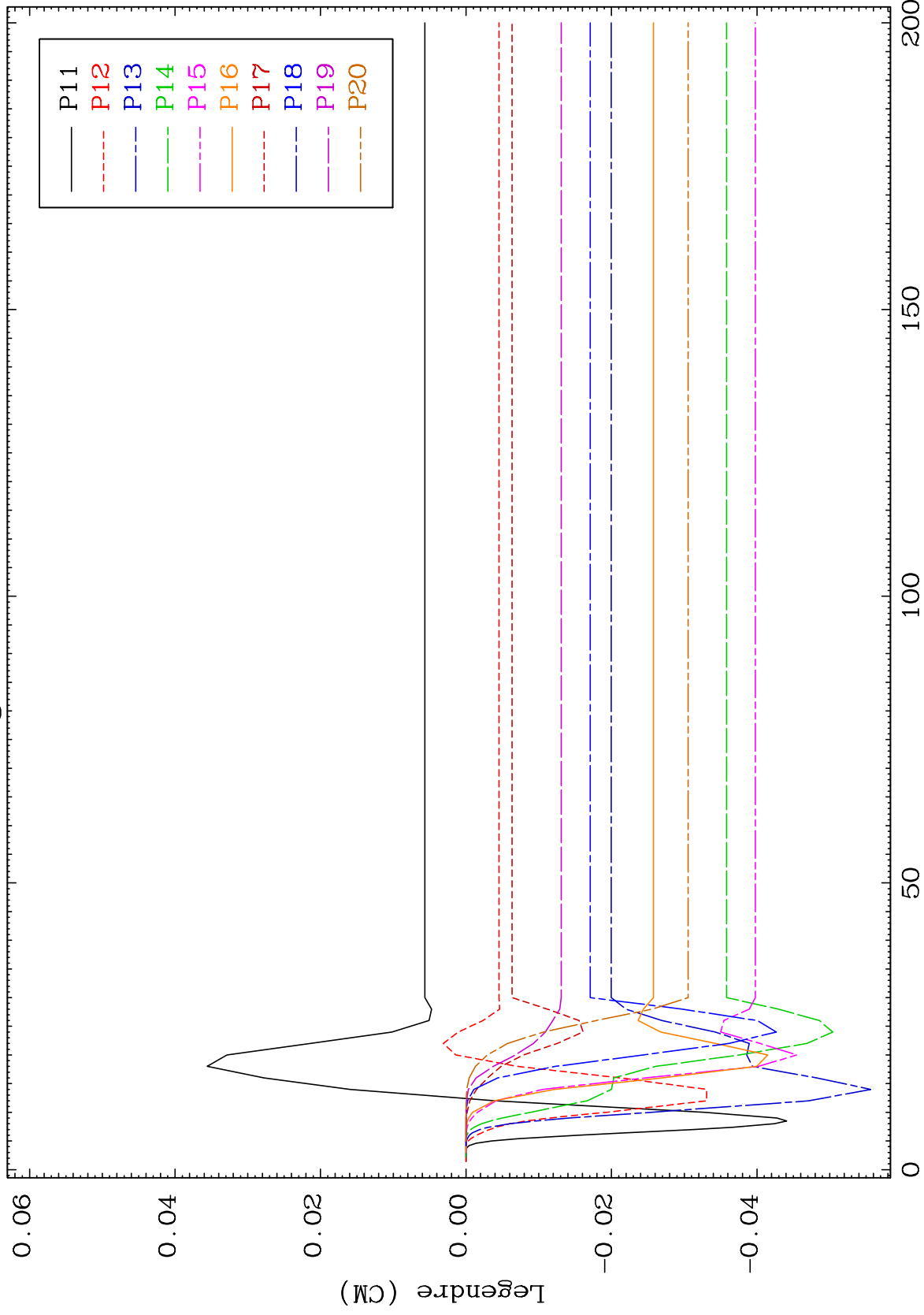
Incident Energy (MeV)

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MAT 7452

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

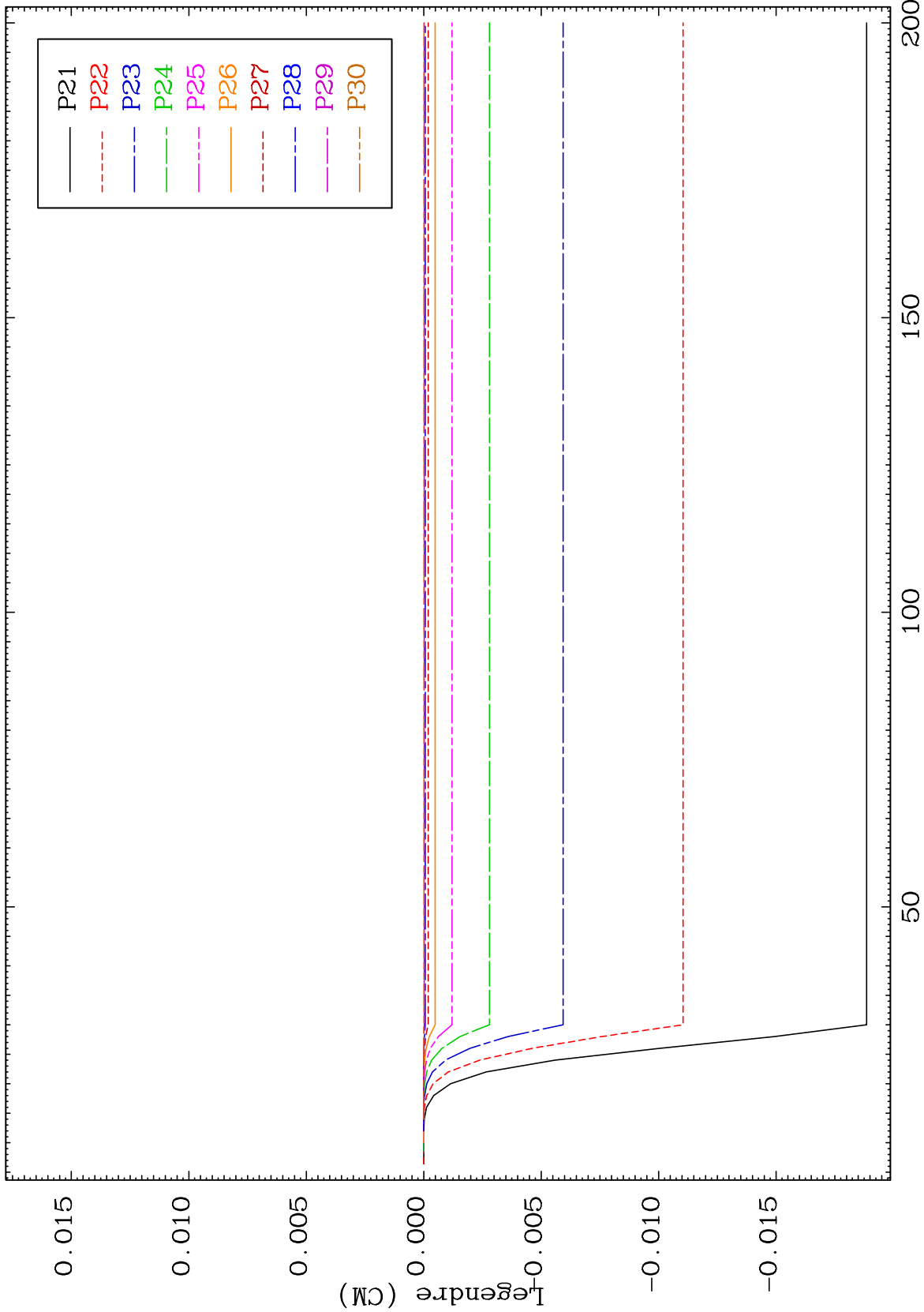
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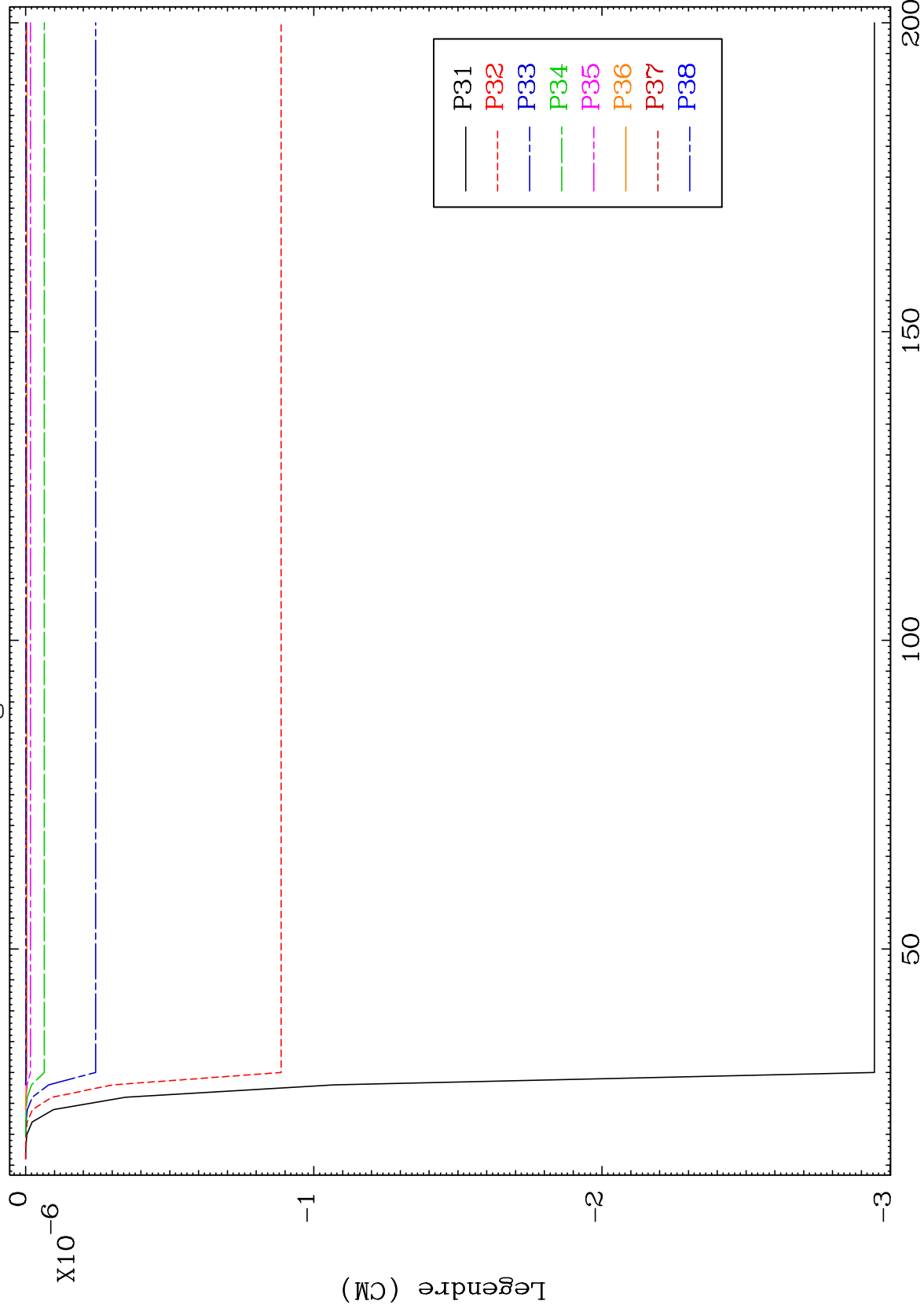


54

Incident Energy (MeV)

74-W -189

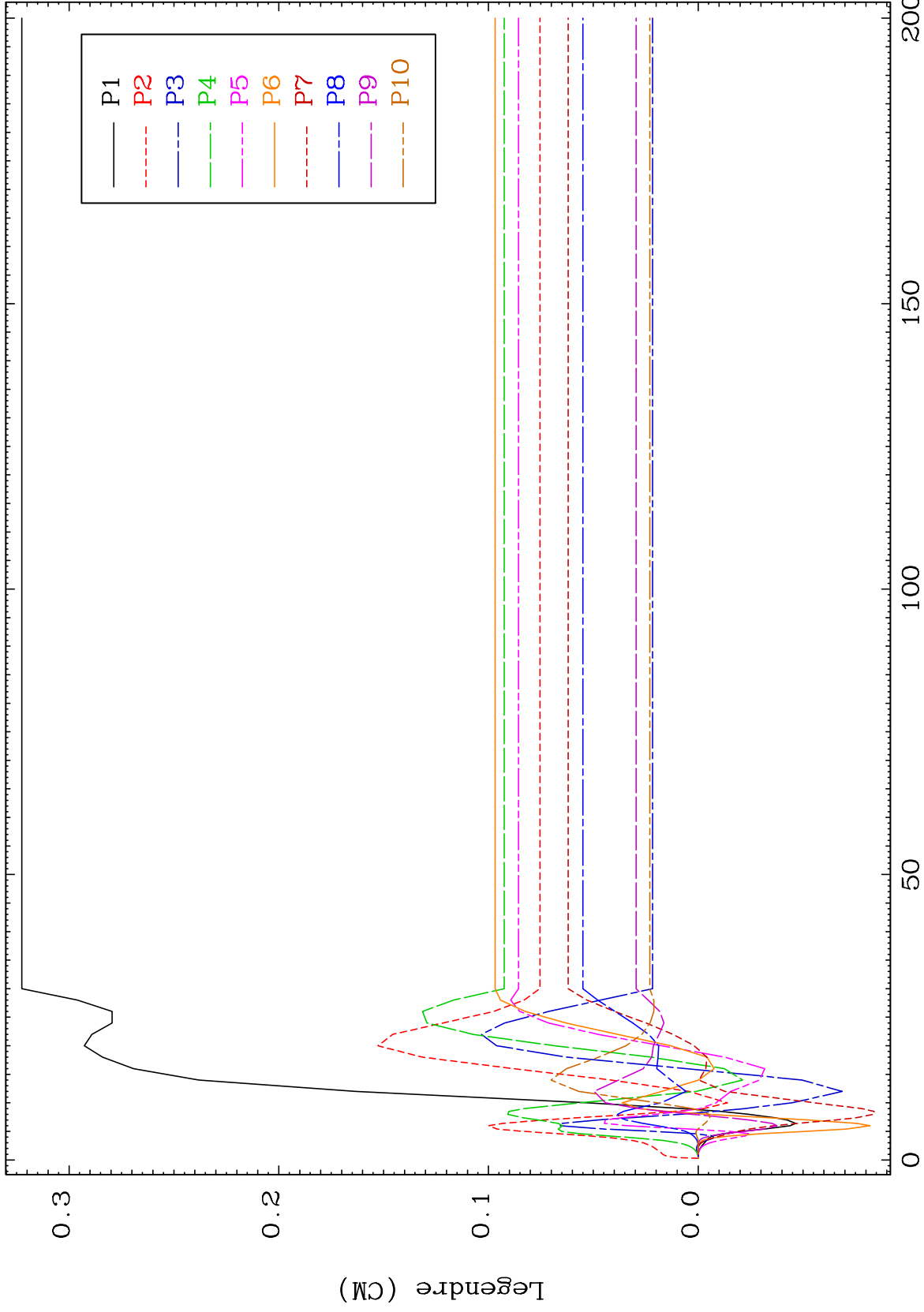




MAT 7452

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

74-W -189



57

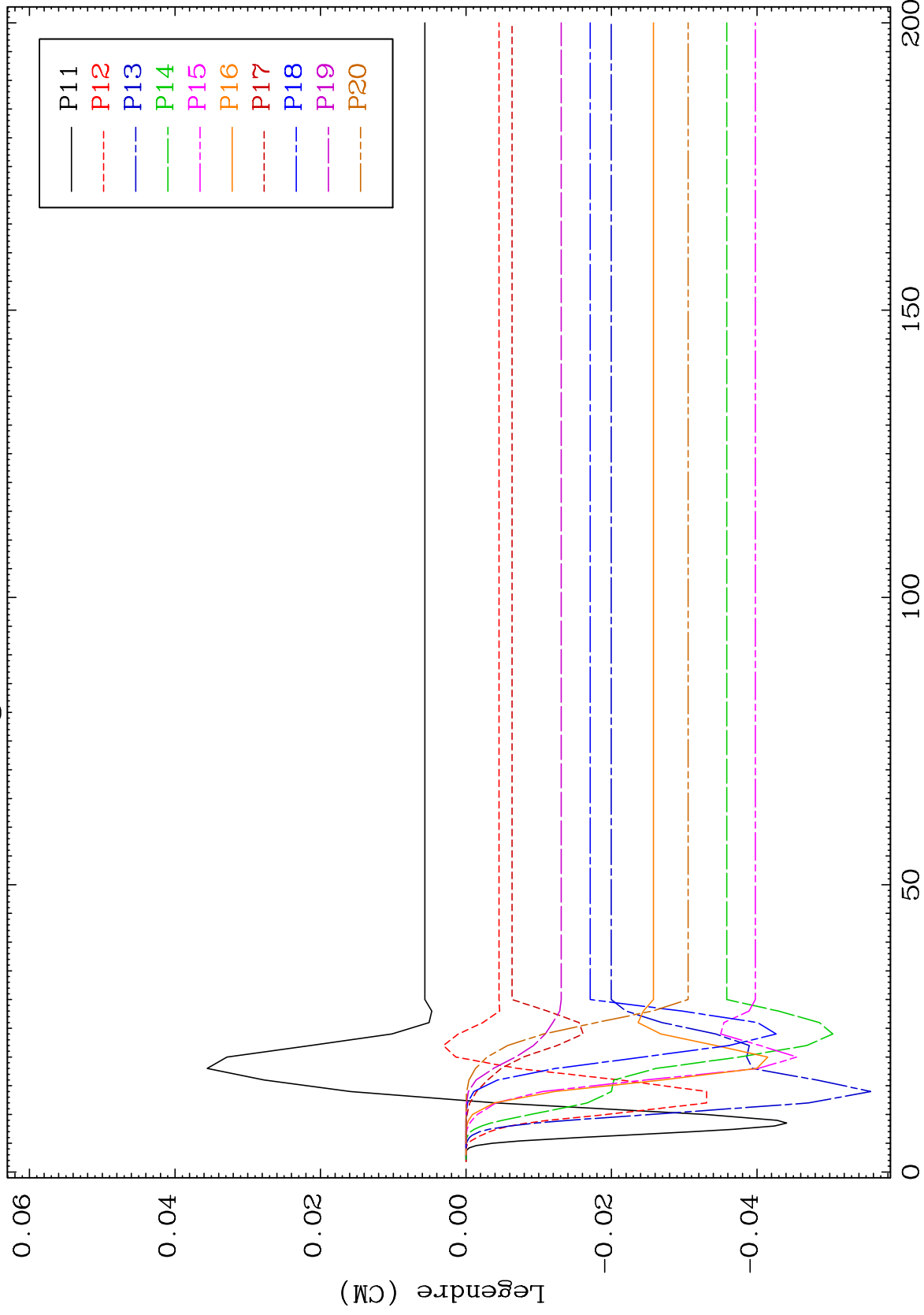
Incident Energy (MeV)

74-W -189

MAT 7452

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

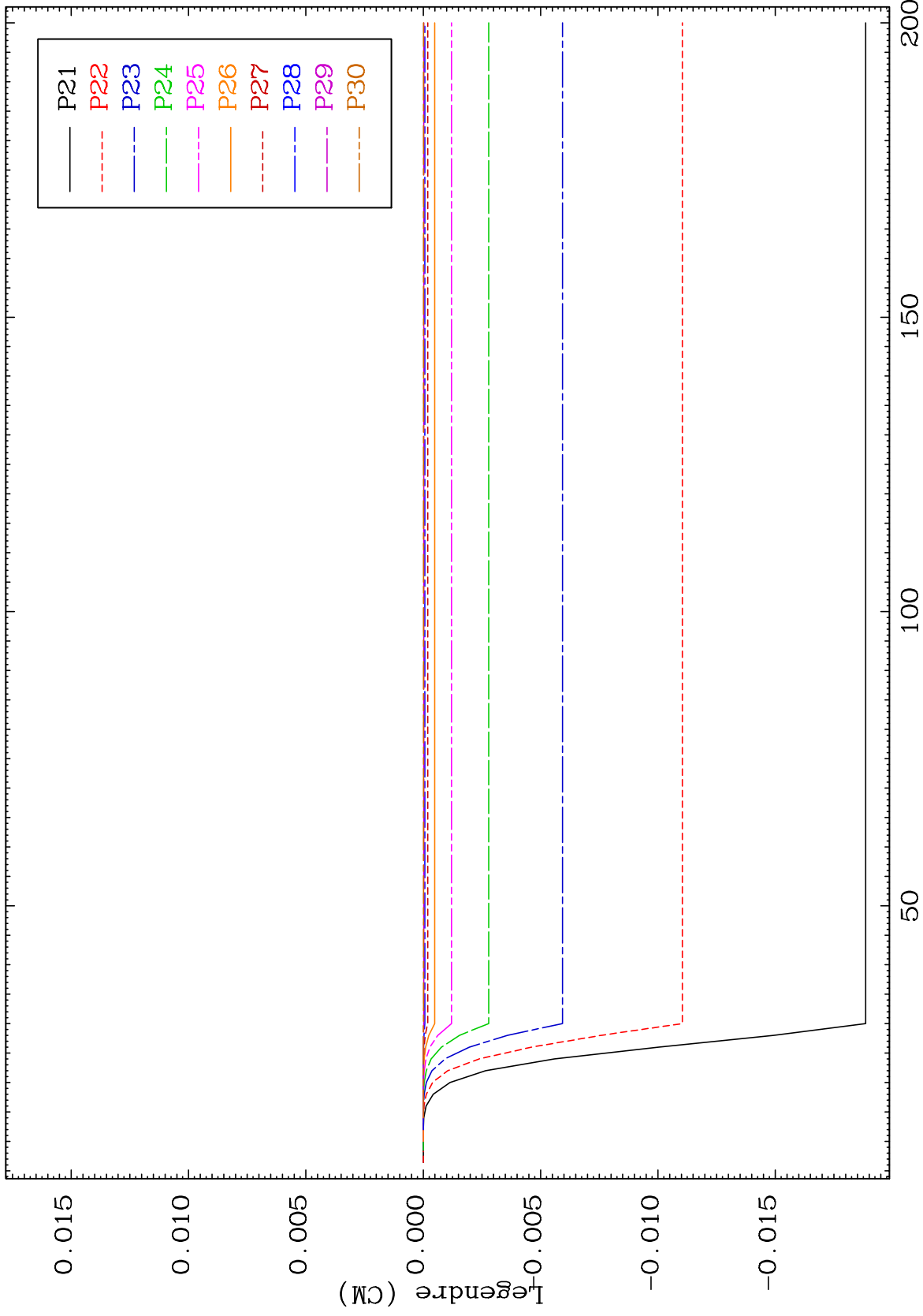
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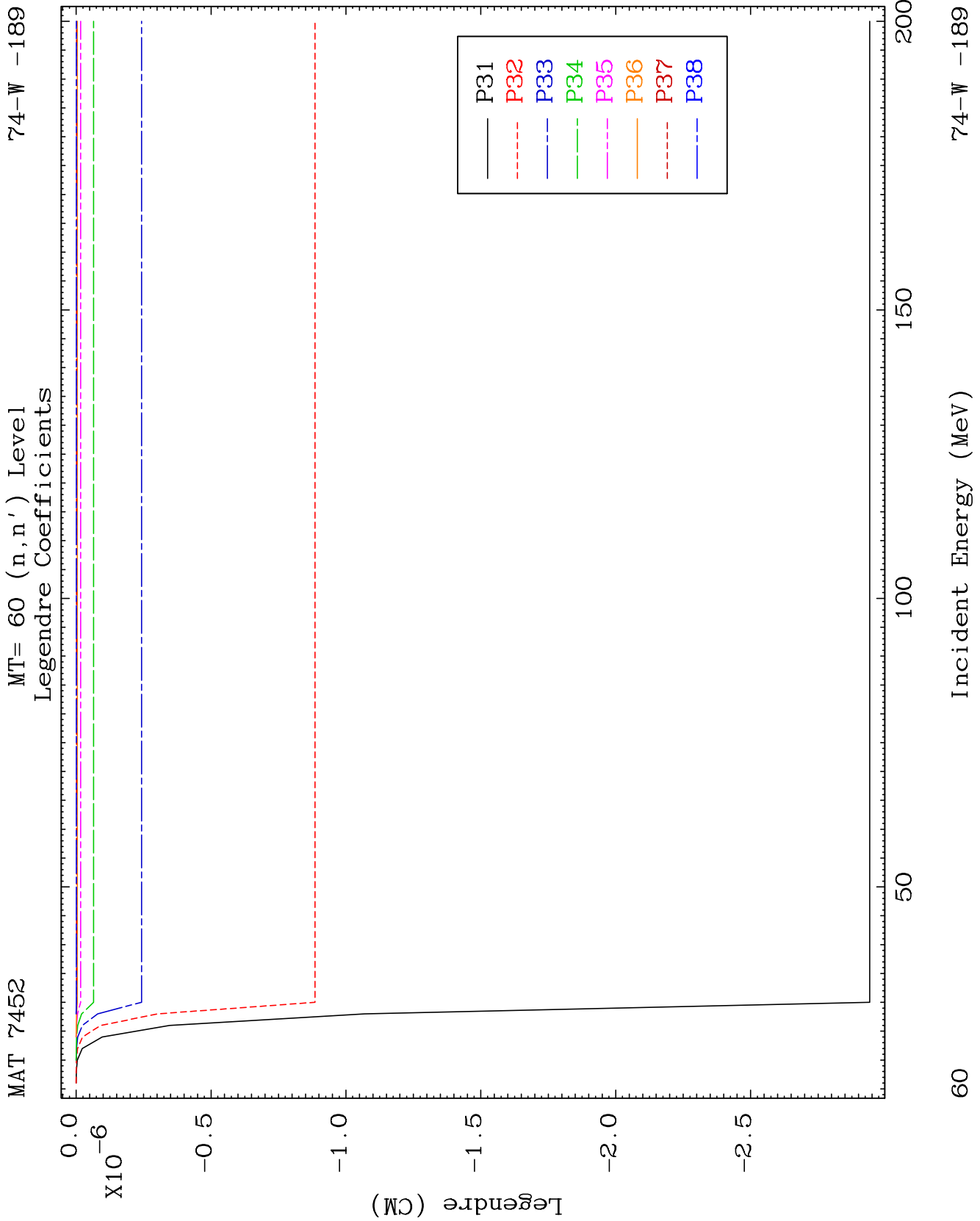


58

Incident Energy (MeV)

74-W -189

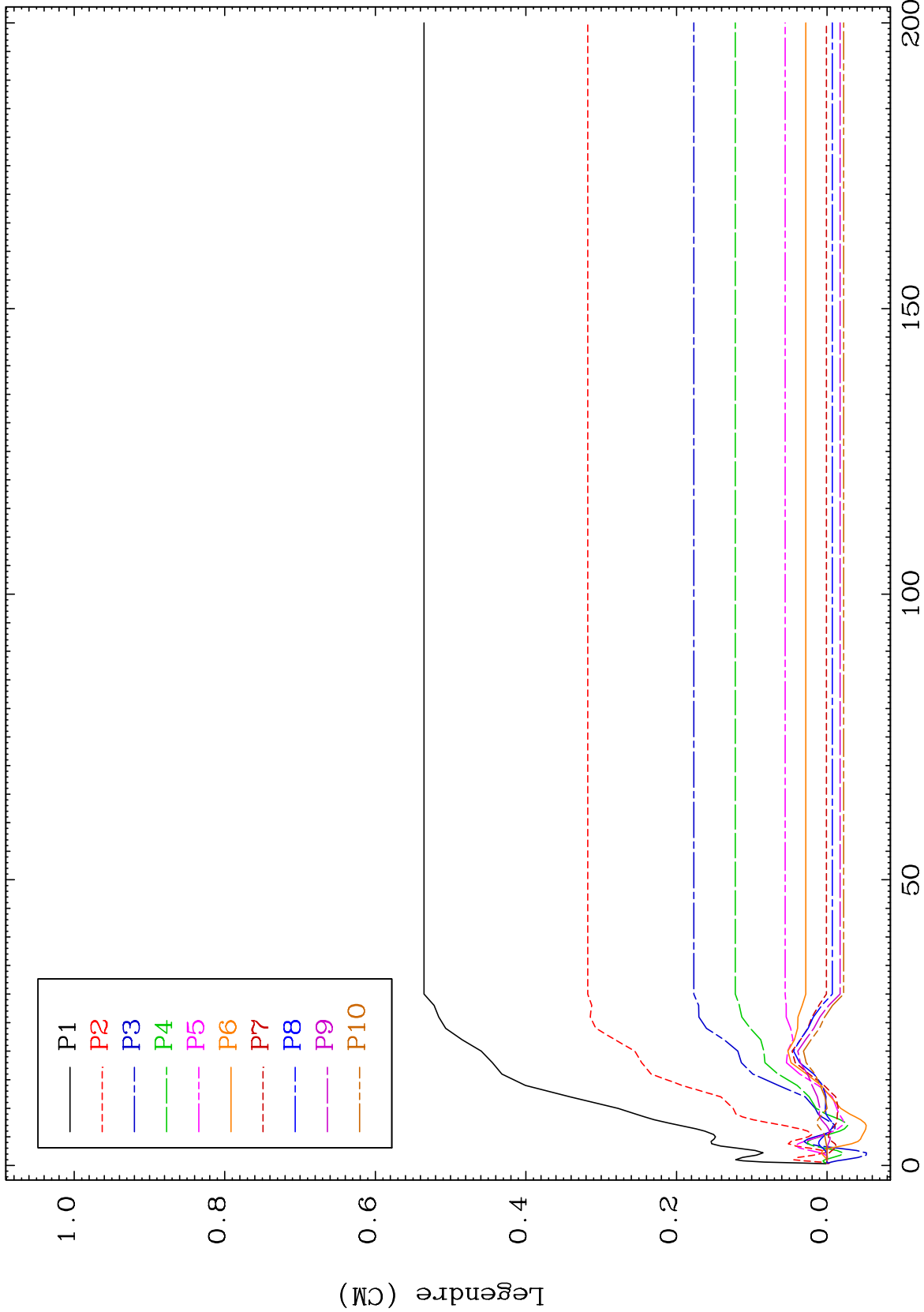




MAT 7452

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

74-W -189



61

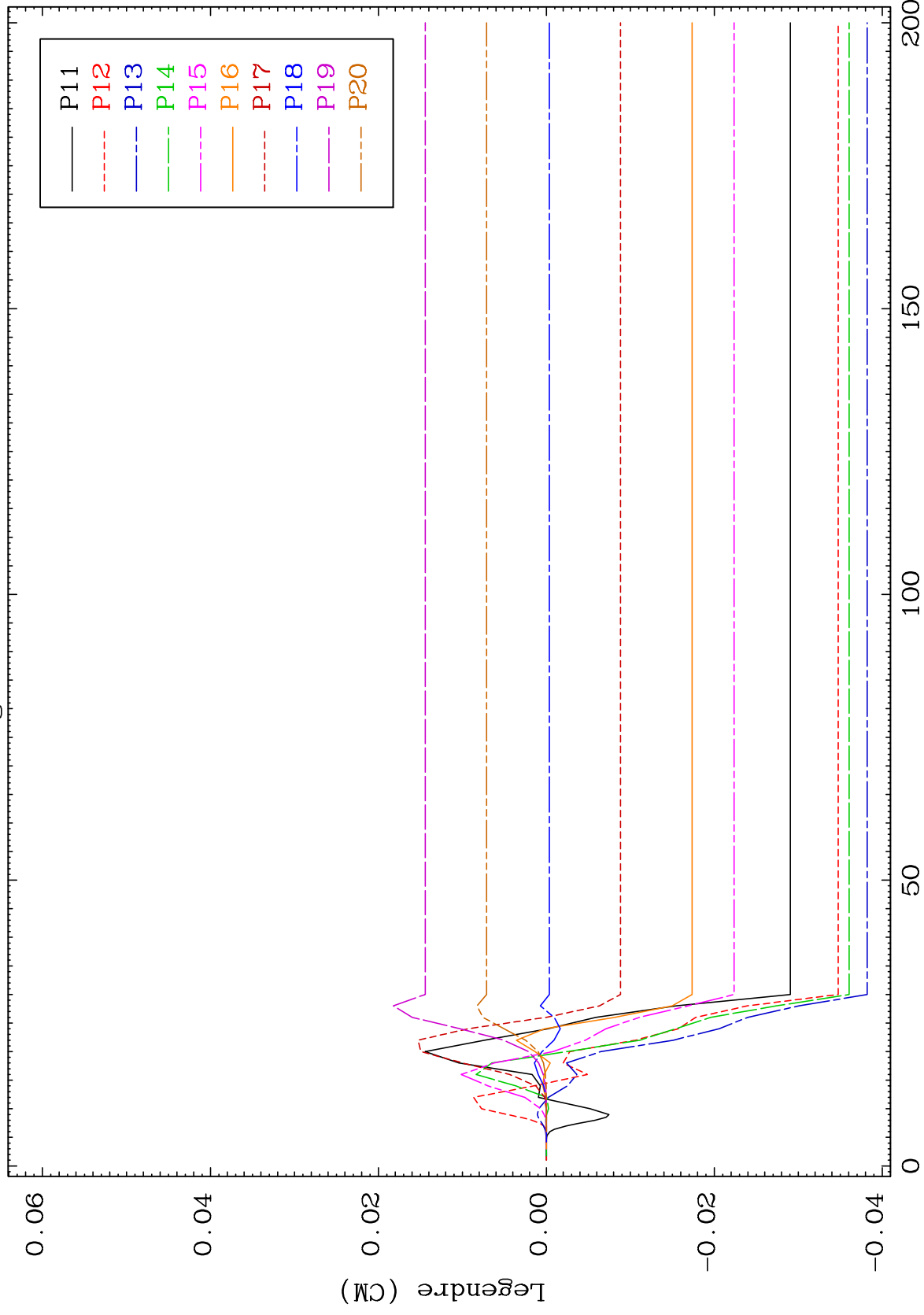
Incident Energy (MeV)

74-W -189

MAT 7452

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

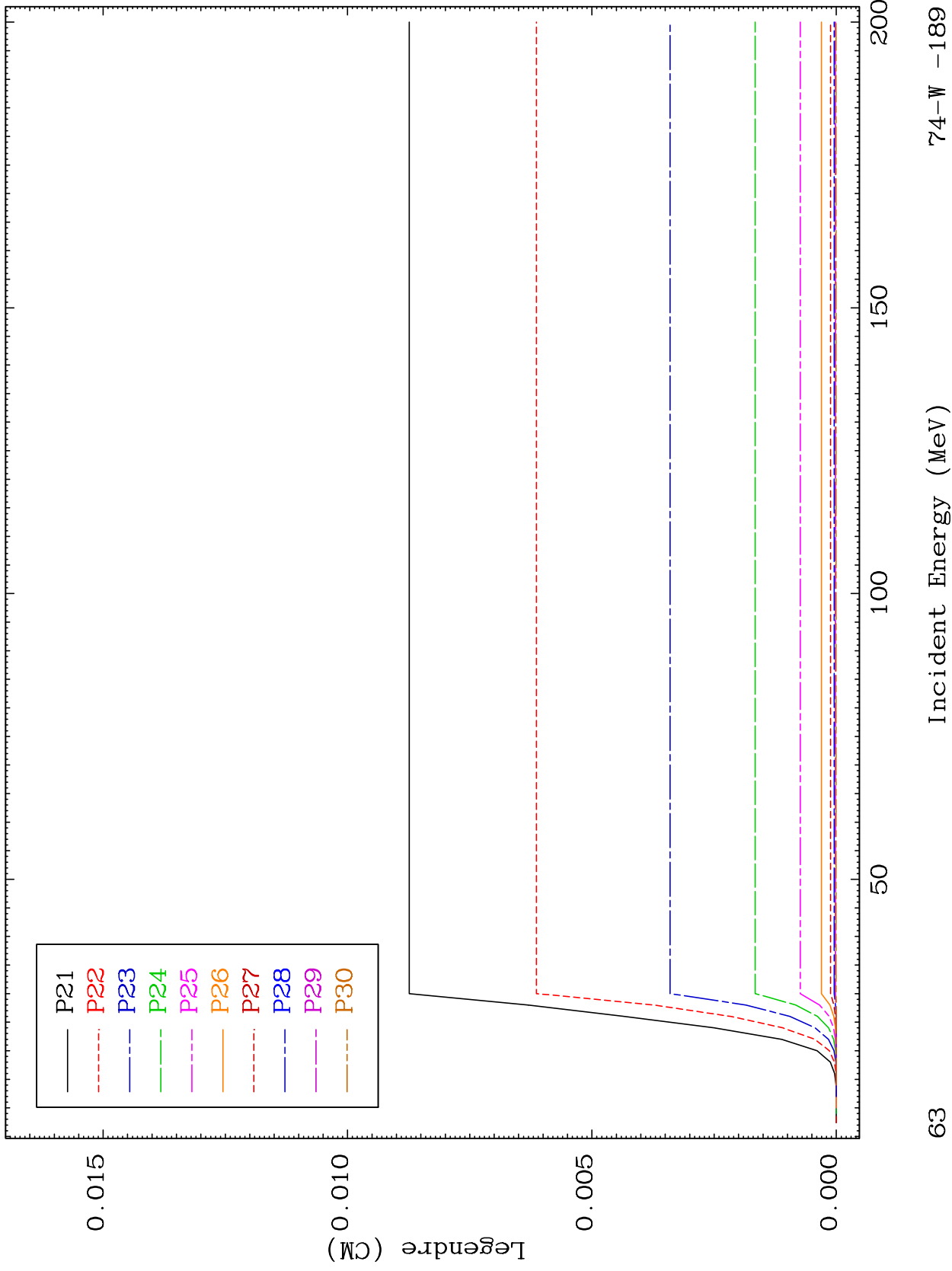
74-W -189



62

Incident Energy (MeV)

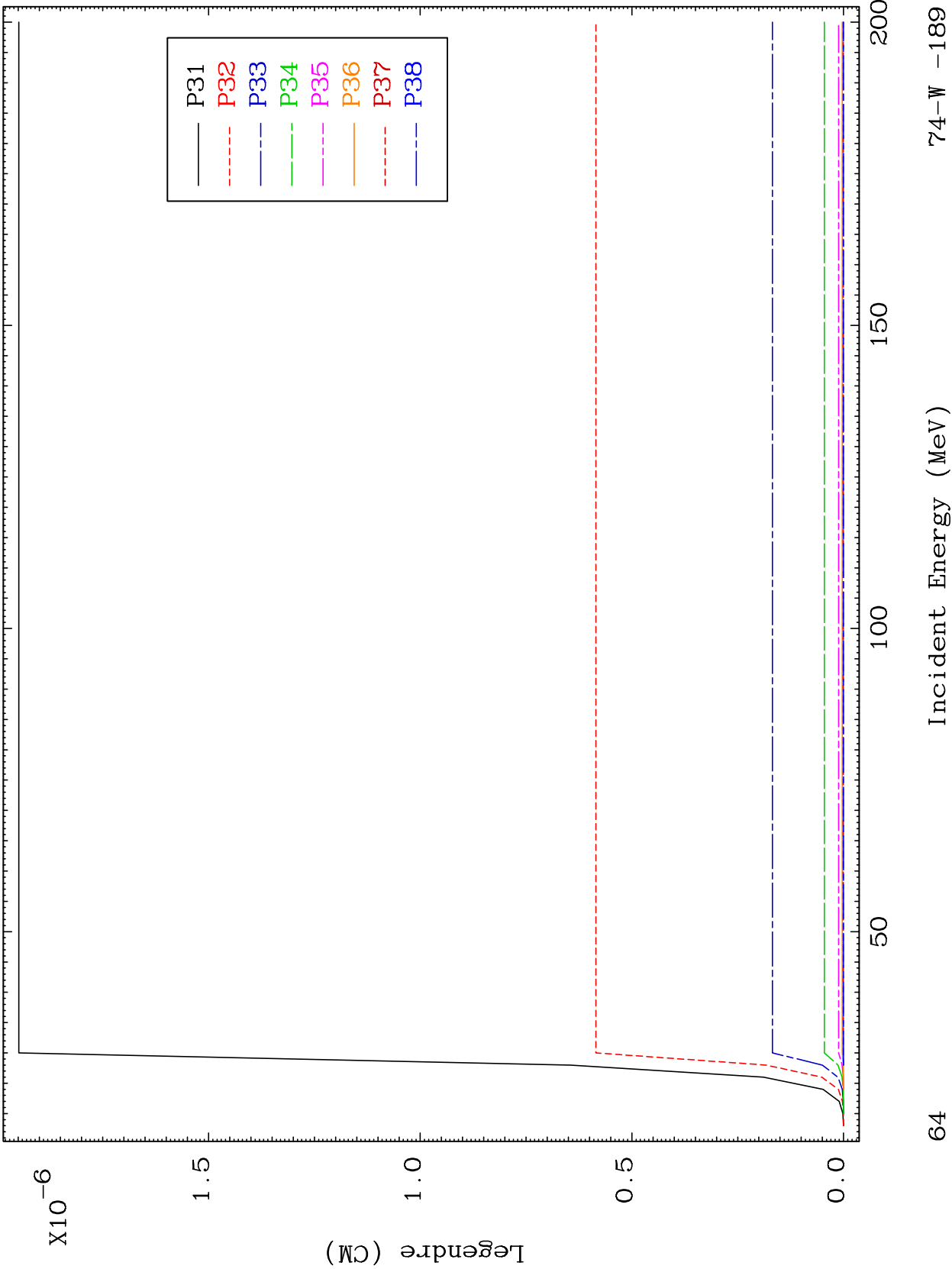
74-W -189



MAT 7452

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

74-W -189



64

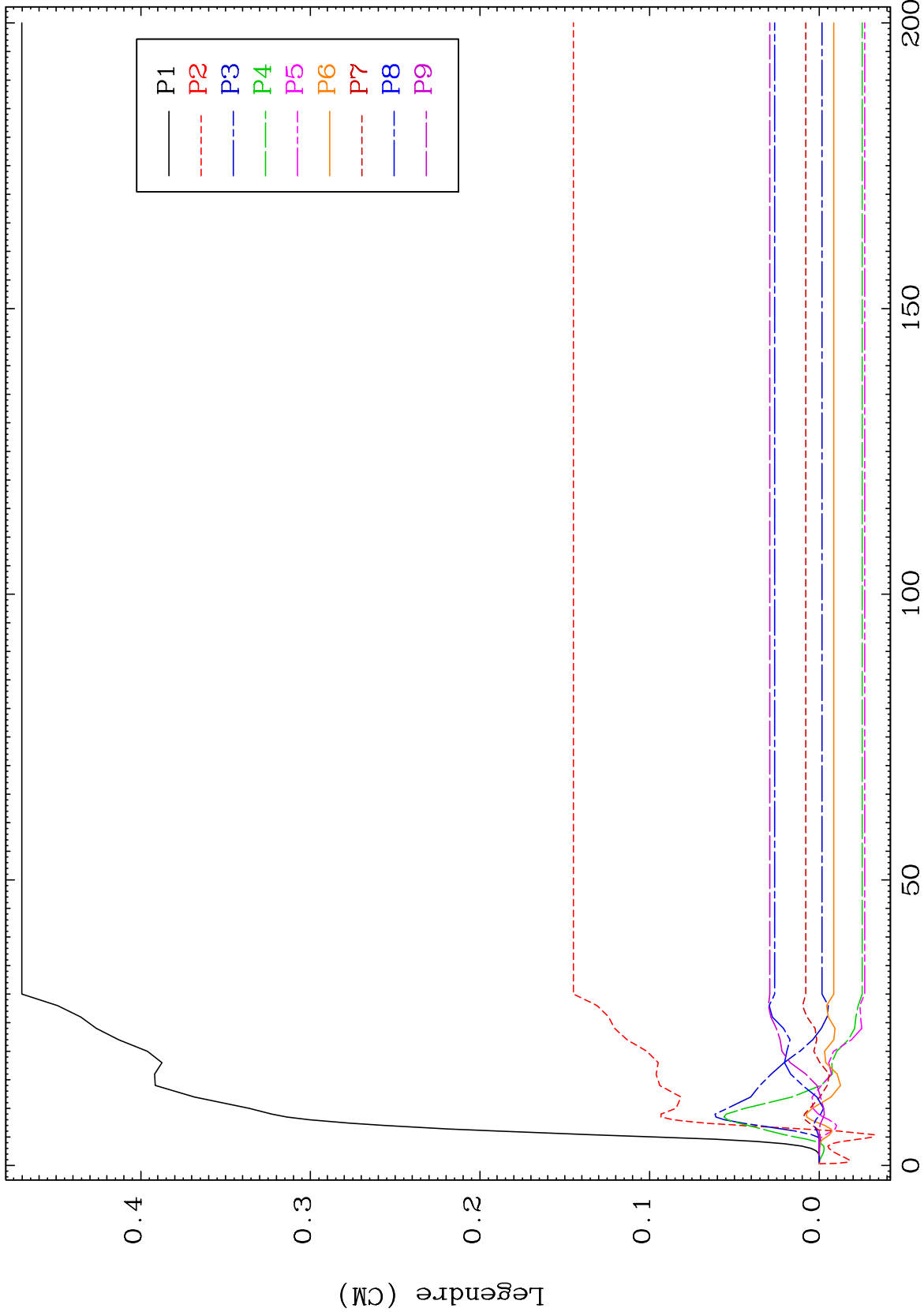
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



65

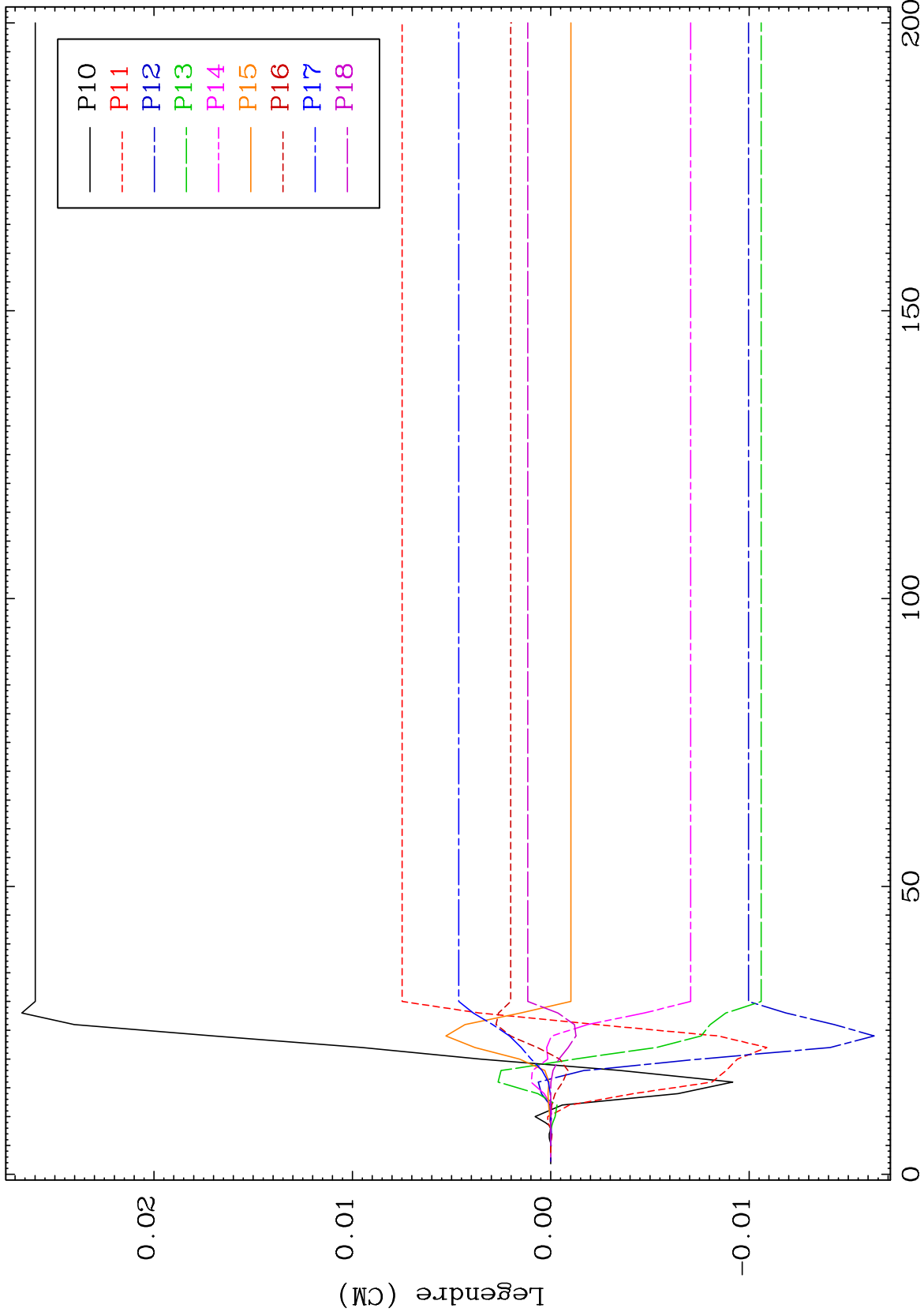
Incident Energy (MeV)

74-W -189

MAT 7452

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

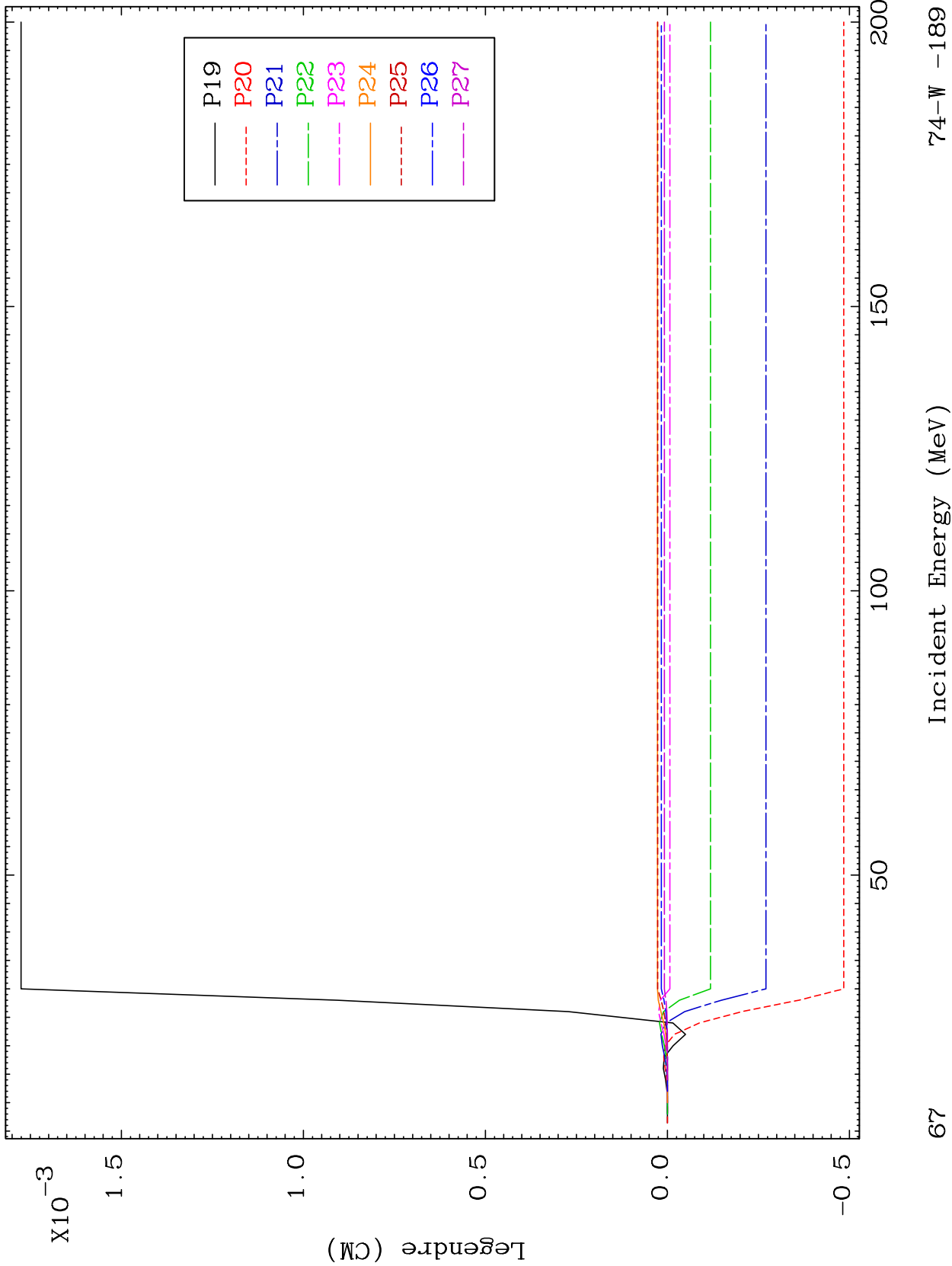
74-W -189



66

Incident Energy (MeV)

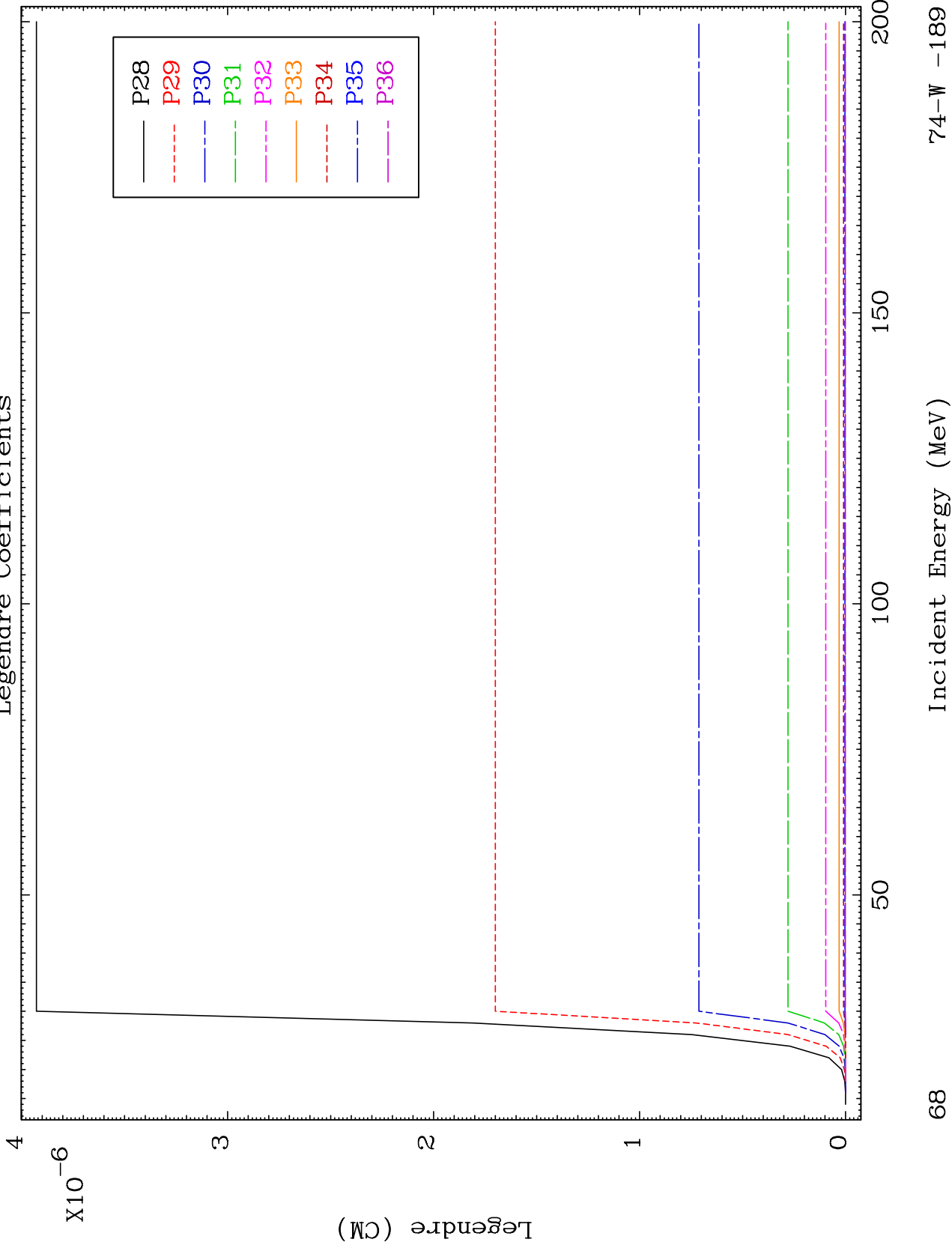
74-W -189

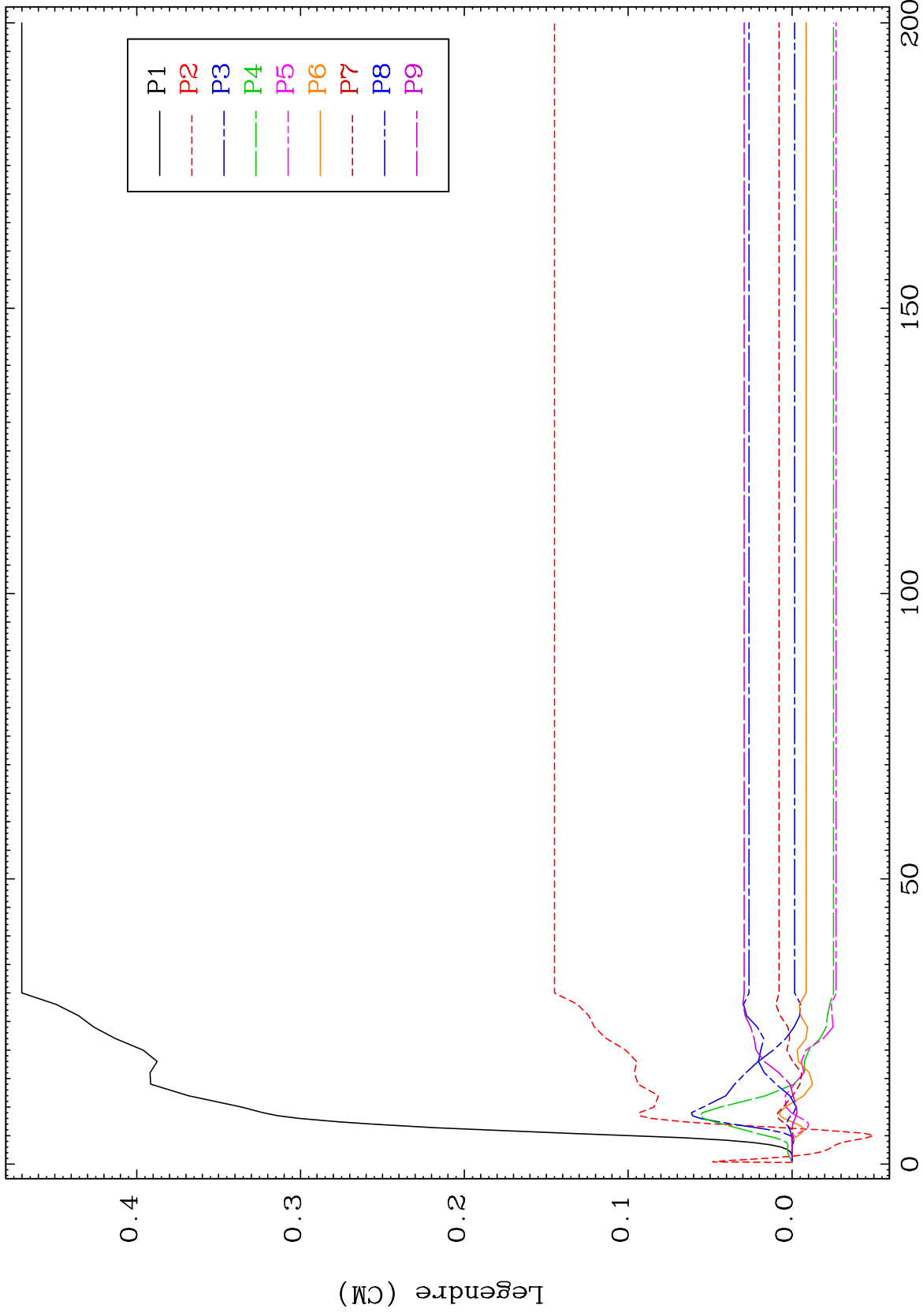


MAT 7452

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

74-W -189

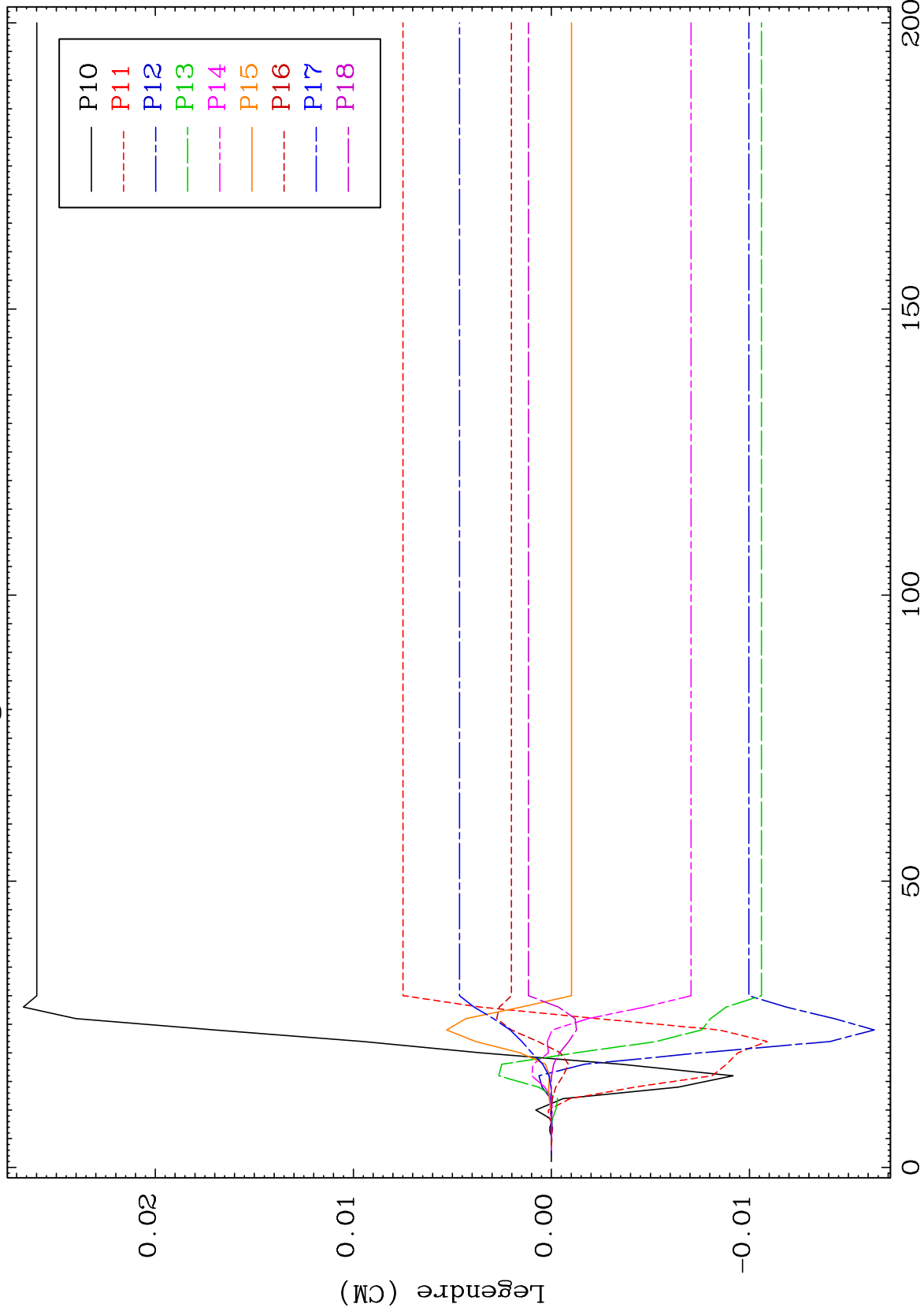




MAT 7452

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

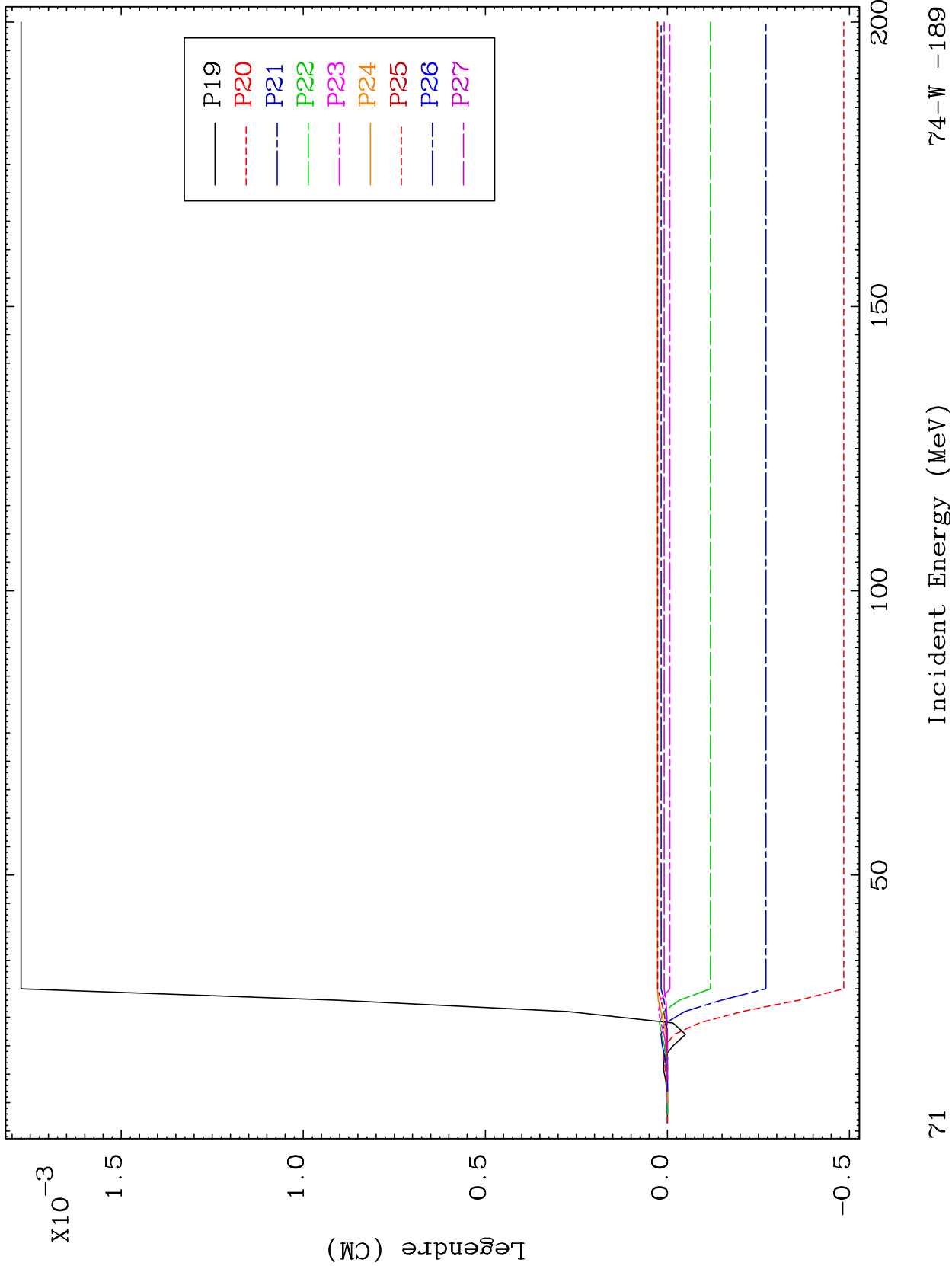
74-W -189



70

Incident Energy (MeV)

74-W -189

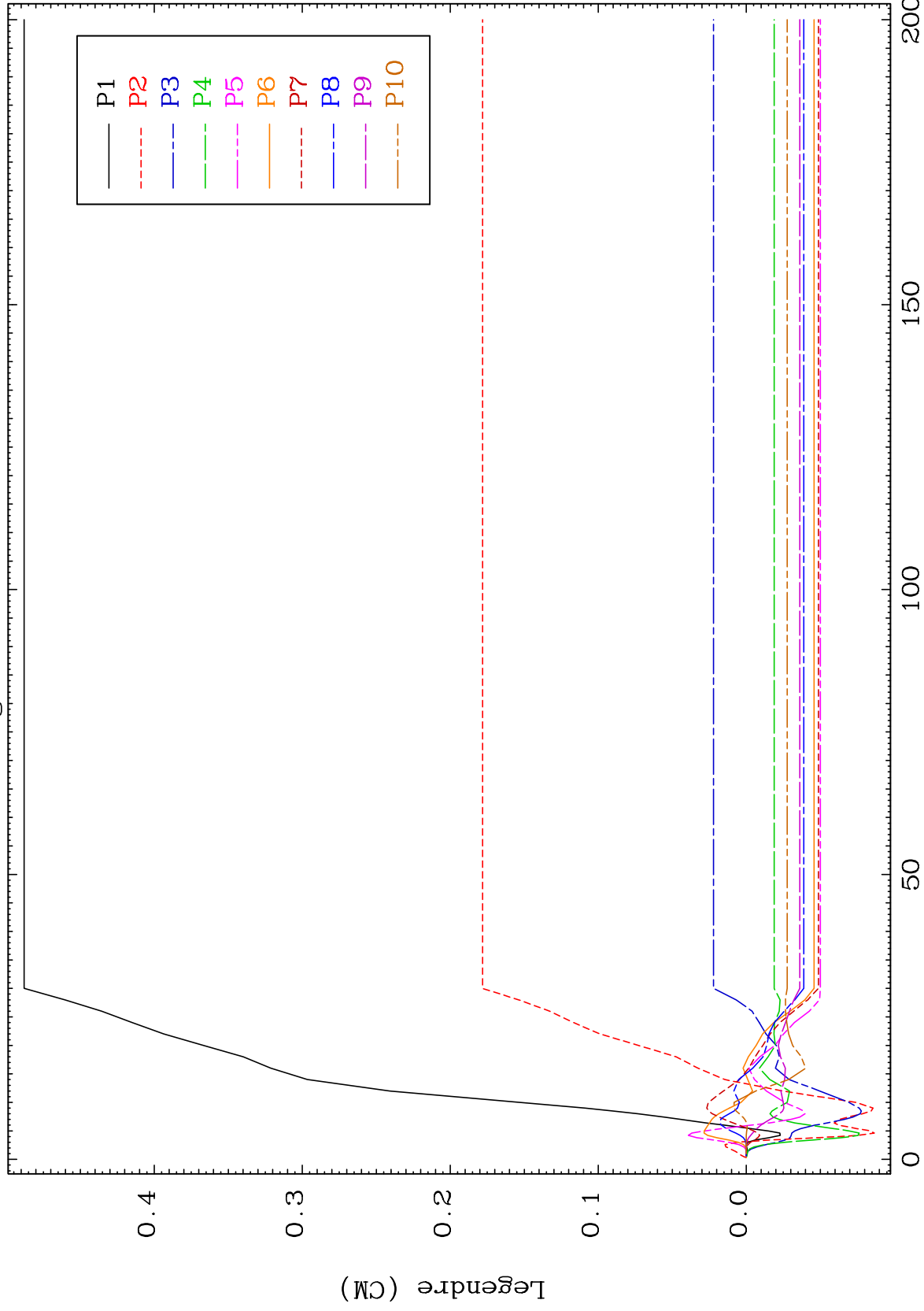




MAT 7452

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

74-W -189



74-W -189

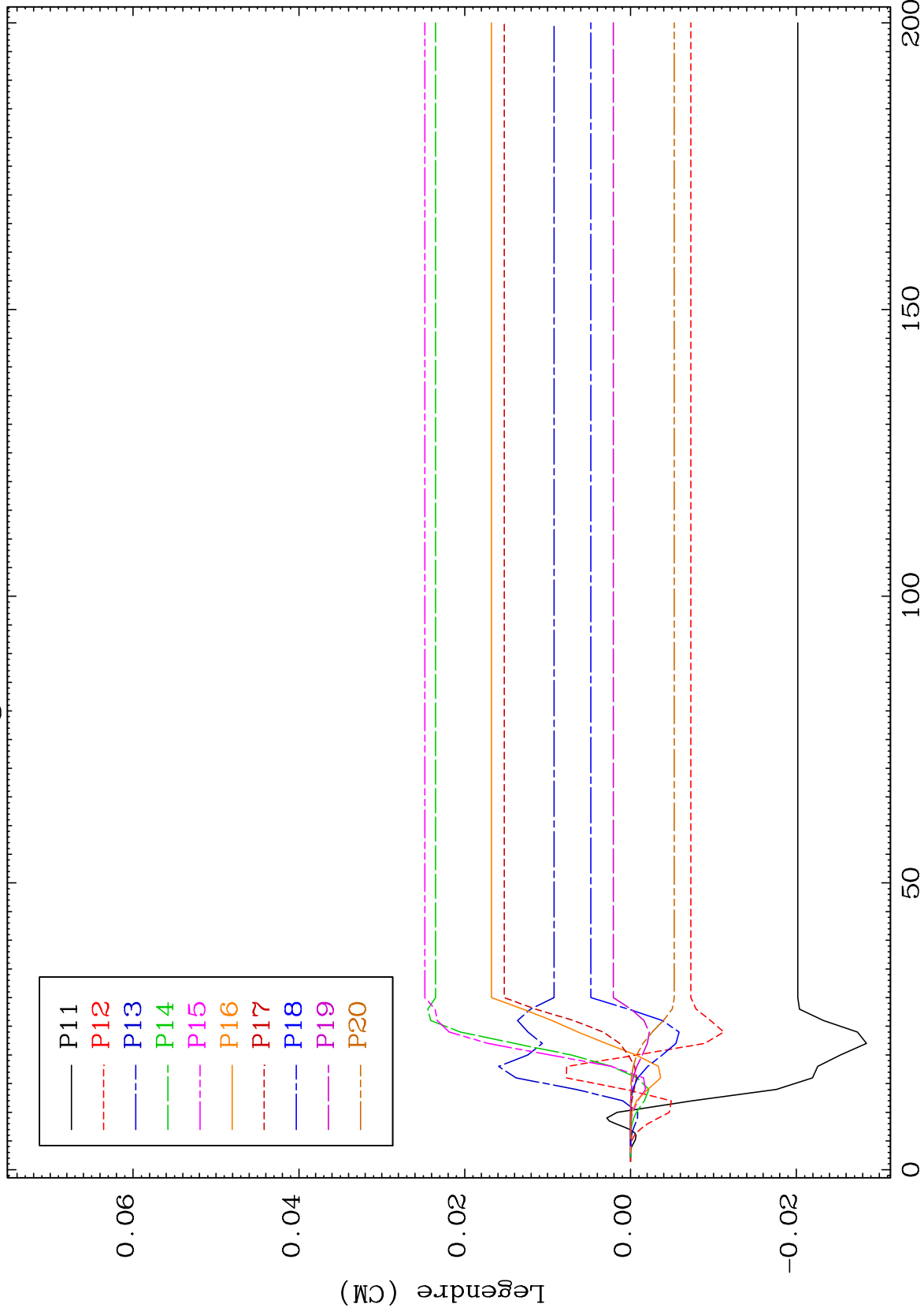
Incident Energy (MeV)

73

MAT 7452

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

74-W -189



74

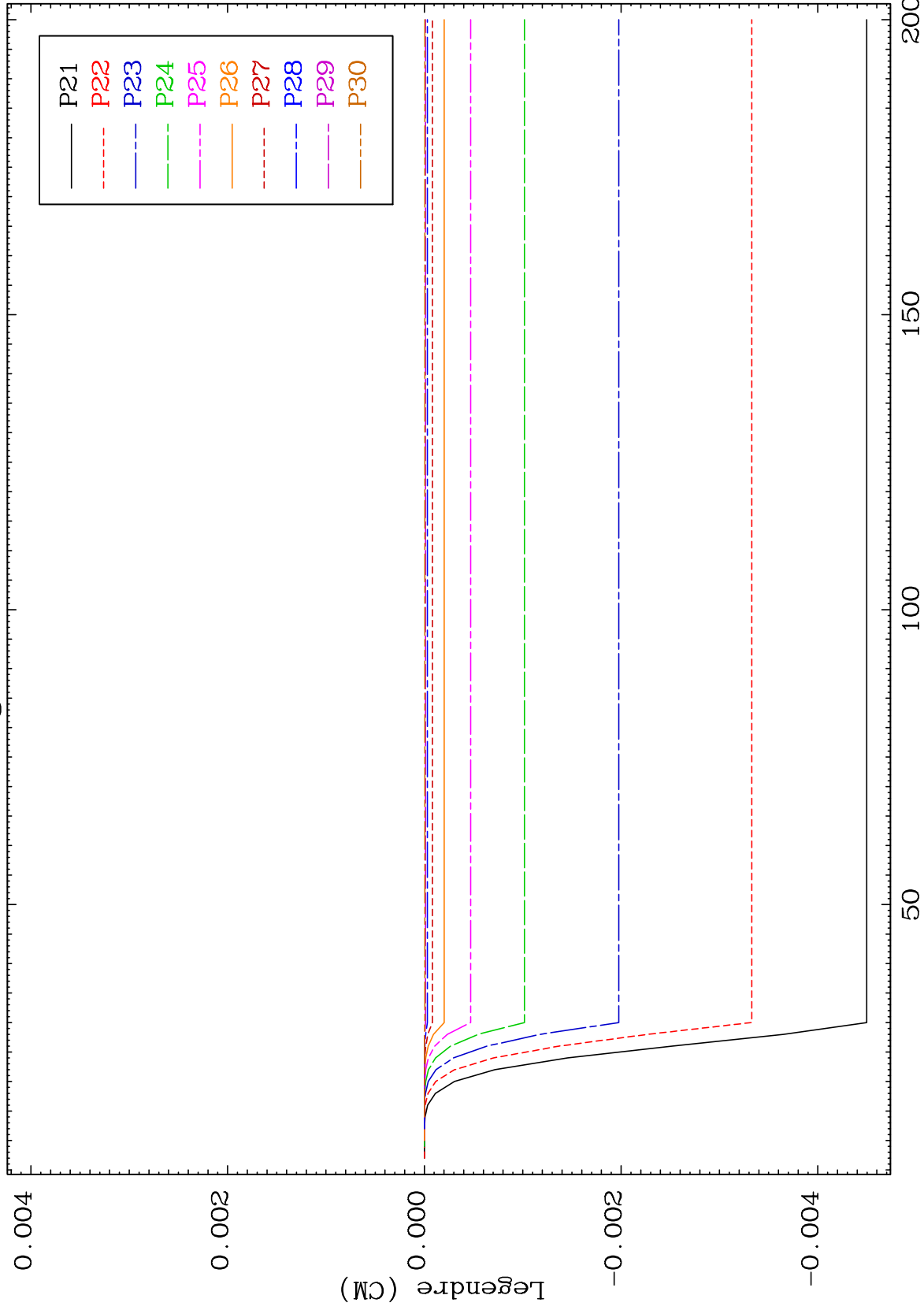
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



75

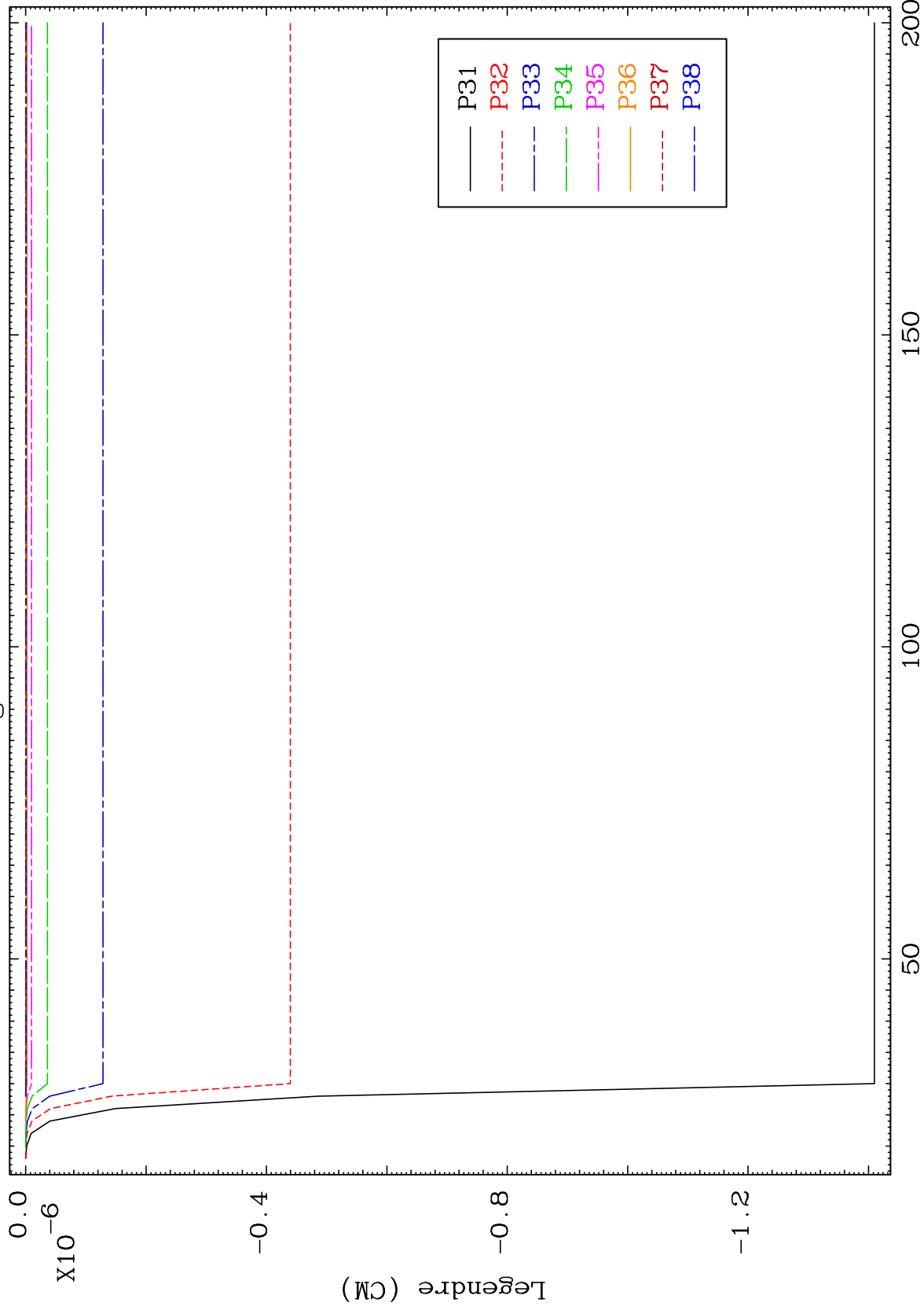
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



74-W -189

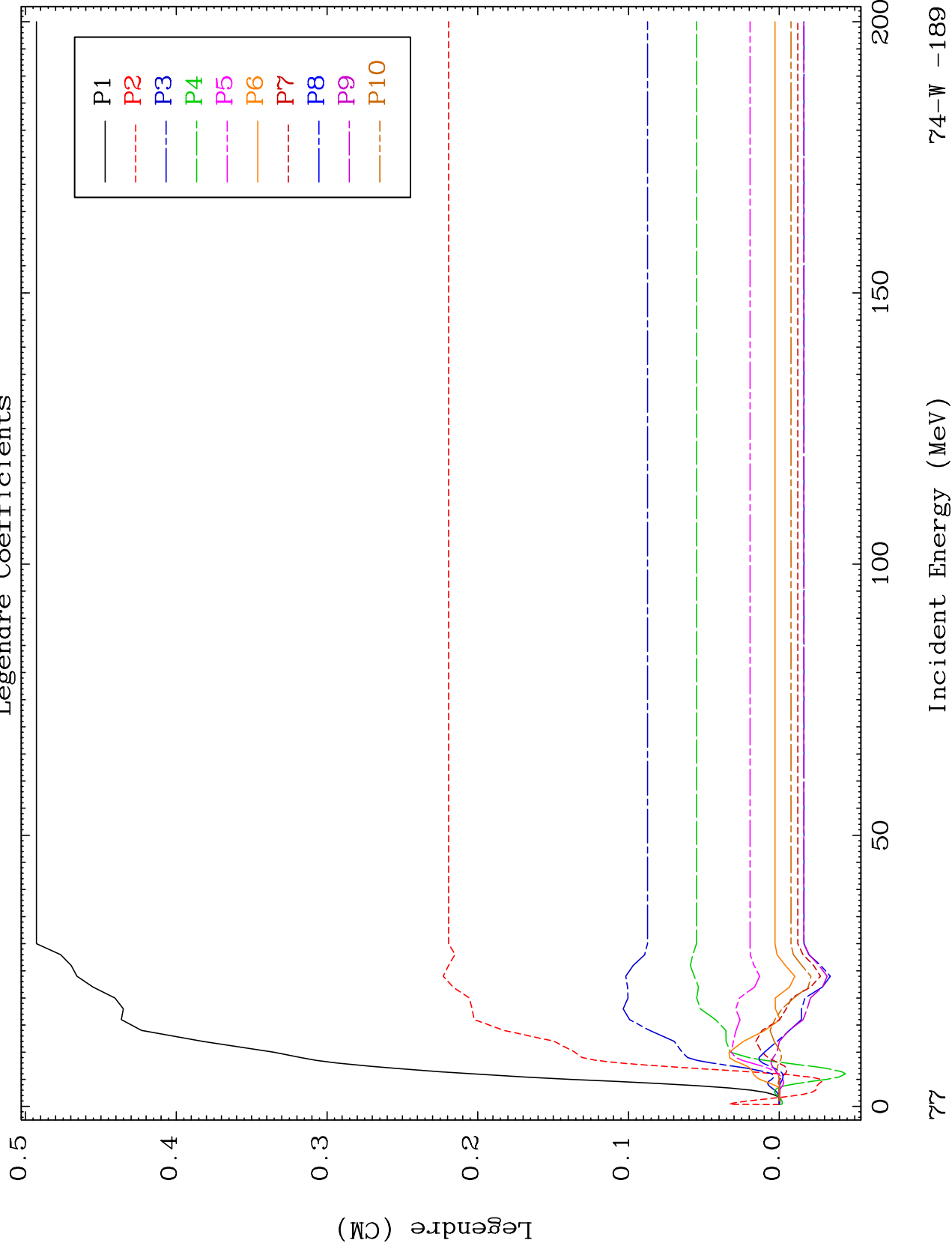
Incident Energy (MeV)

76

MAT 7452

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

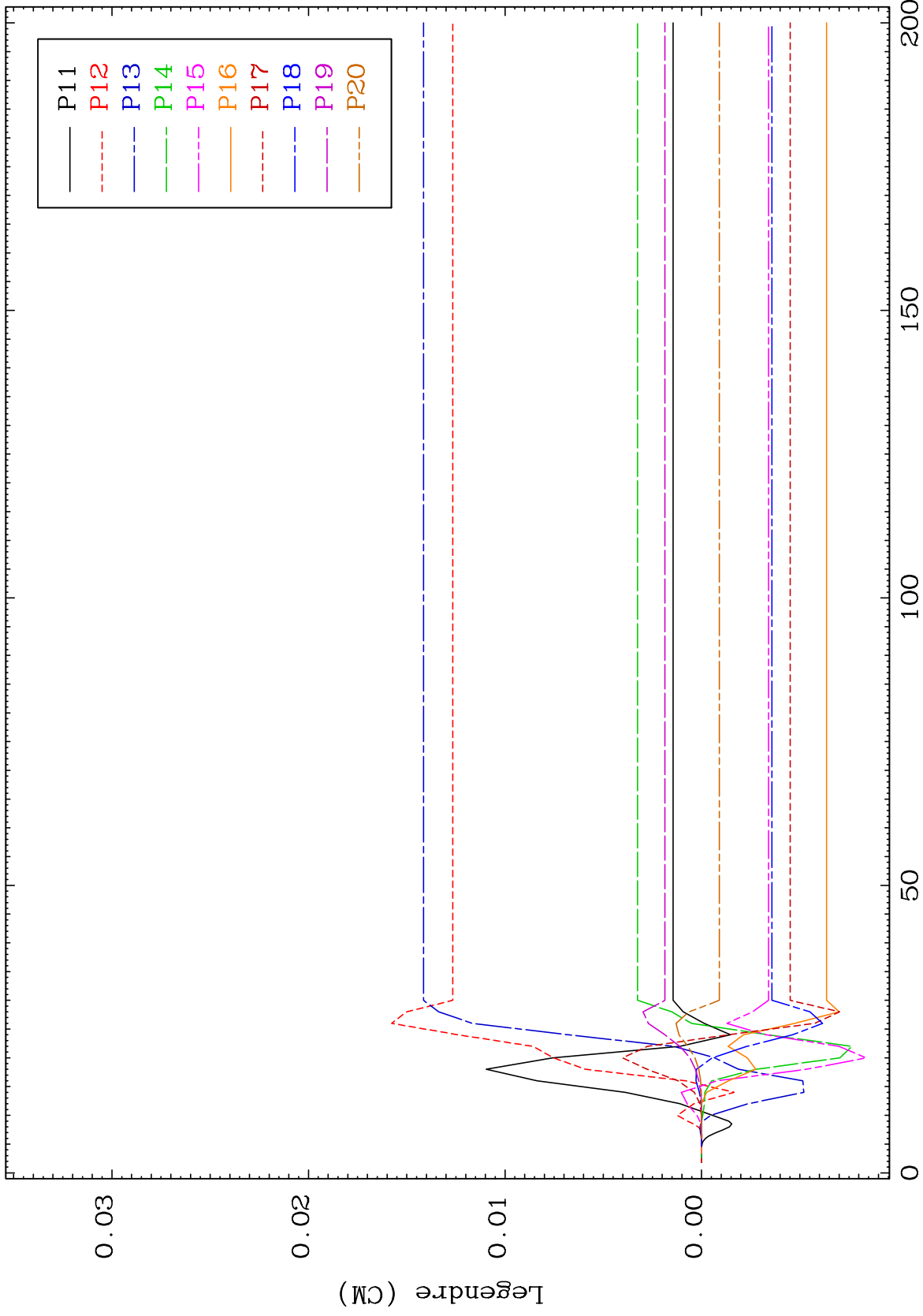
74-W -189



MAT 7452

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

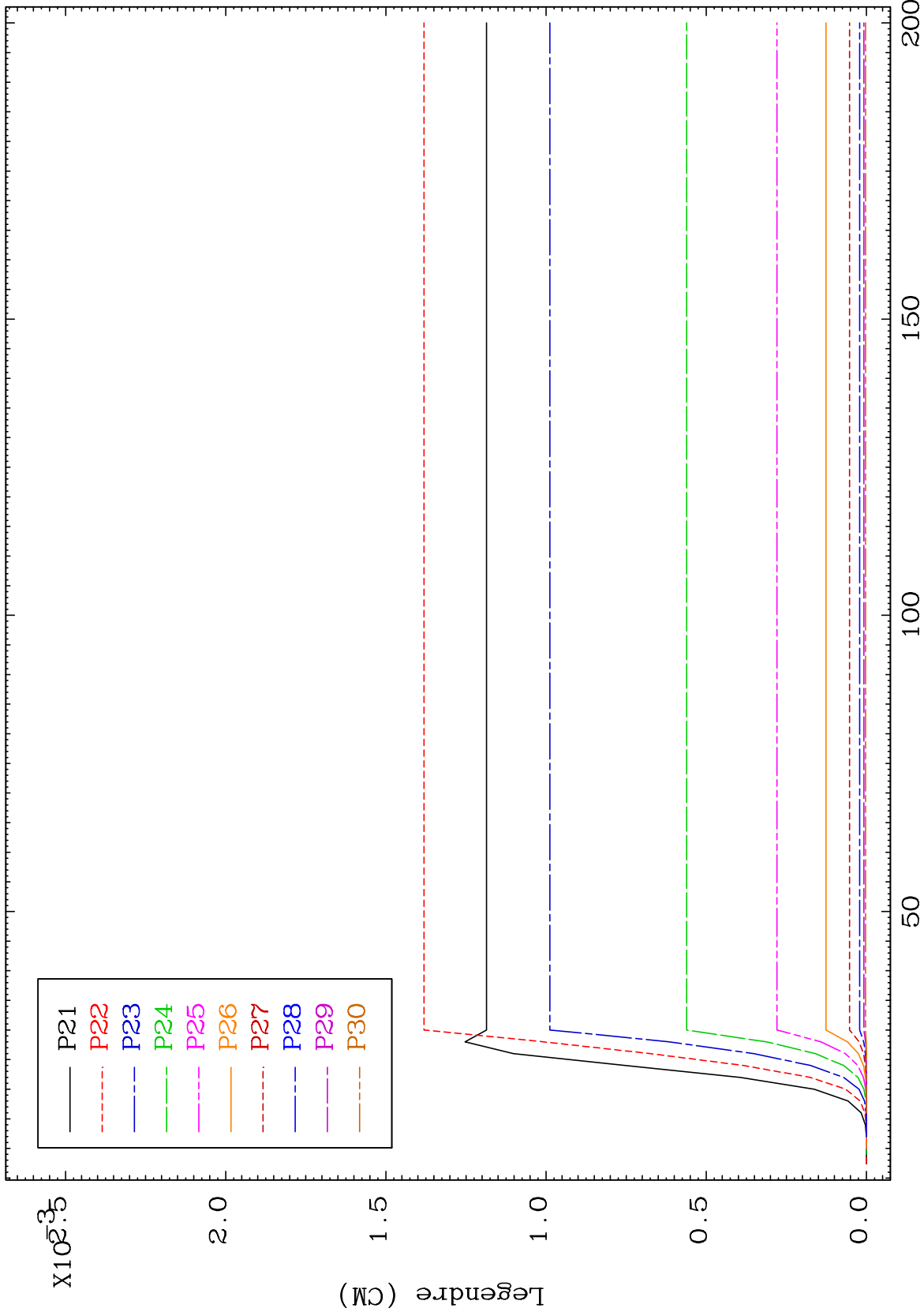
74-W -189



78

Incident Energy (MeV)

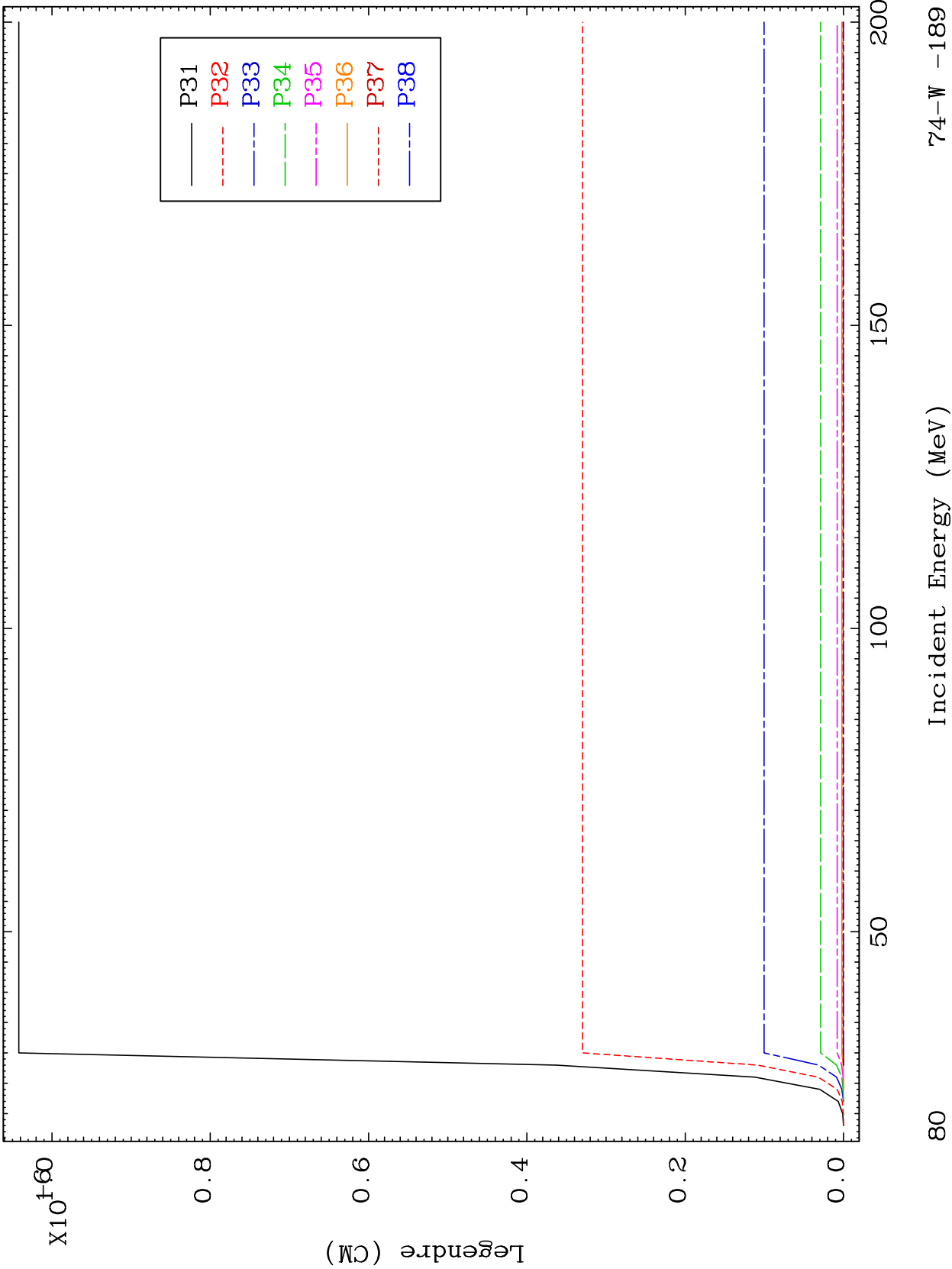
74-W -189



MAT 7452

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

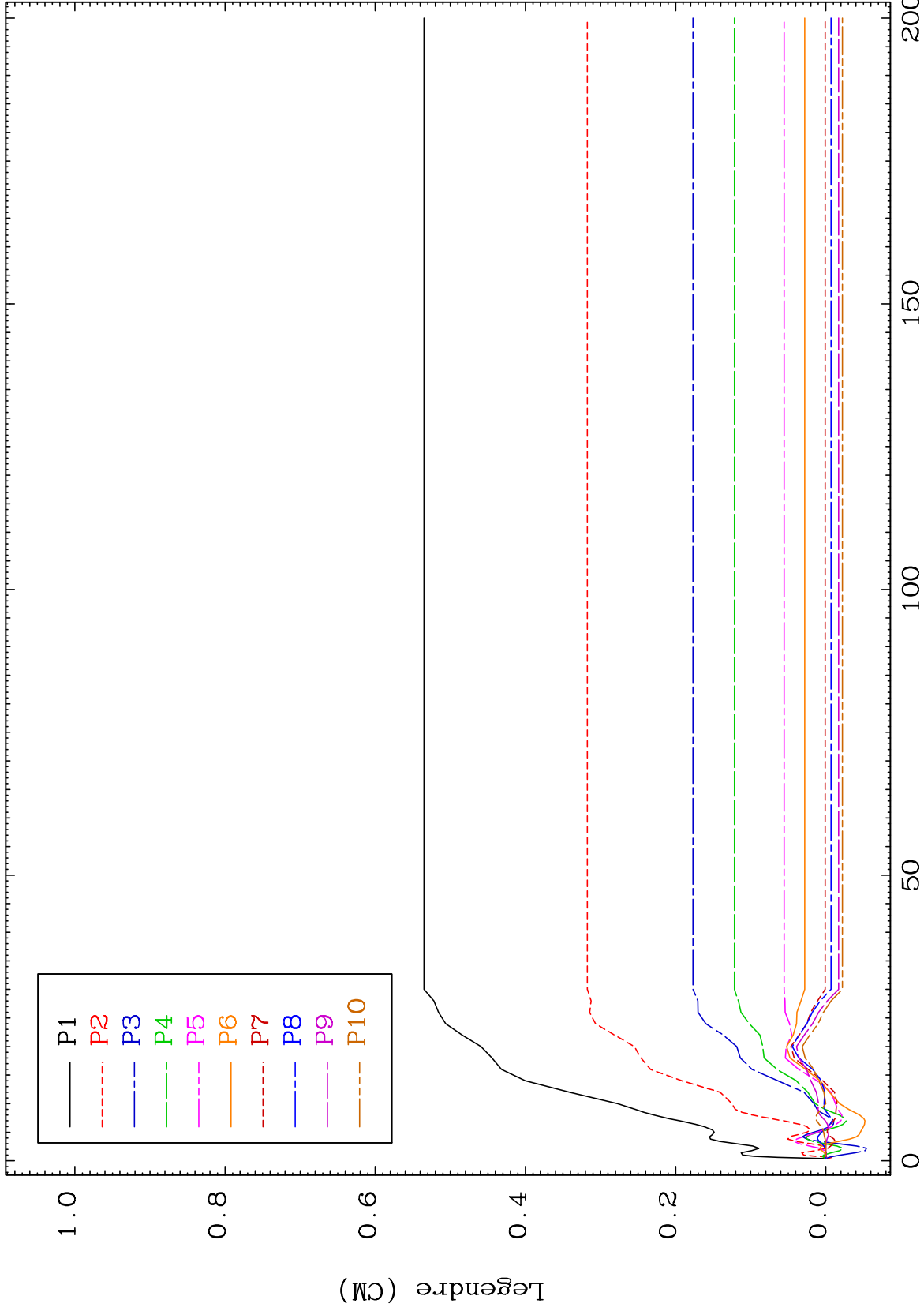
74-W -189



74-W -189

Incident Energy (MeV)

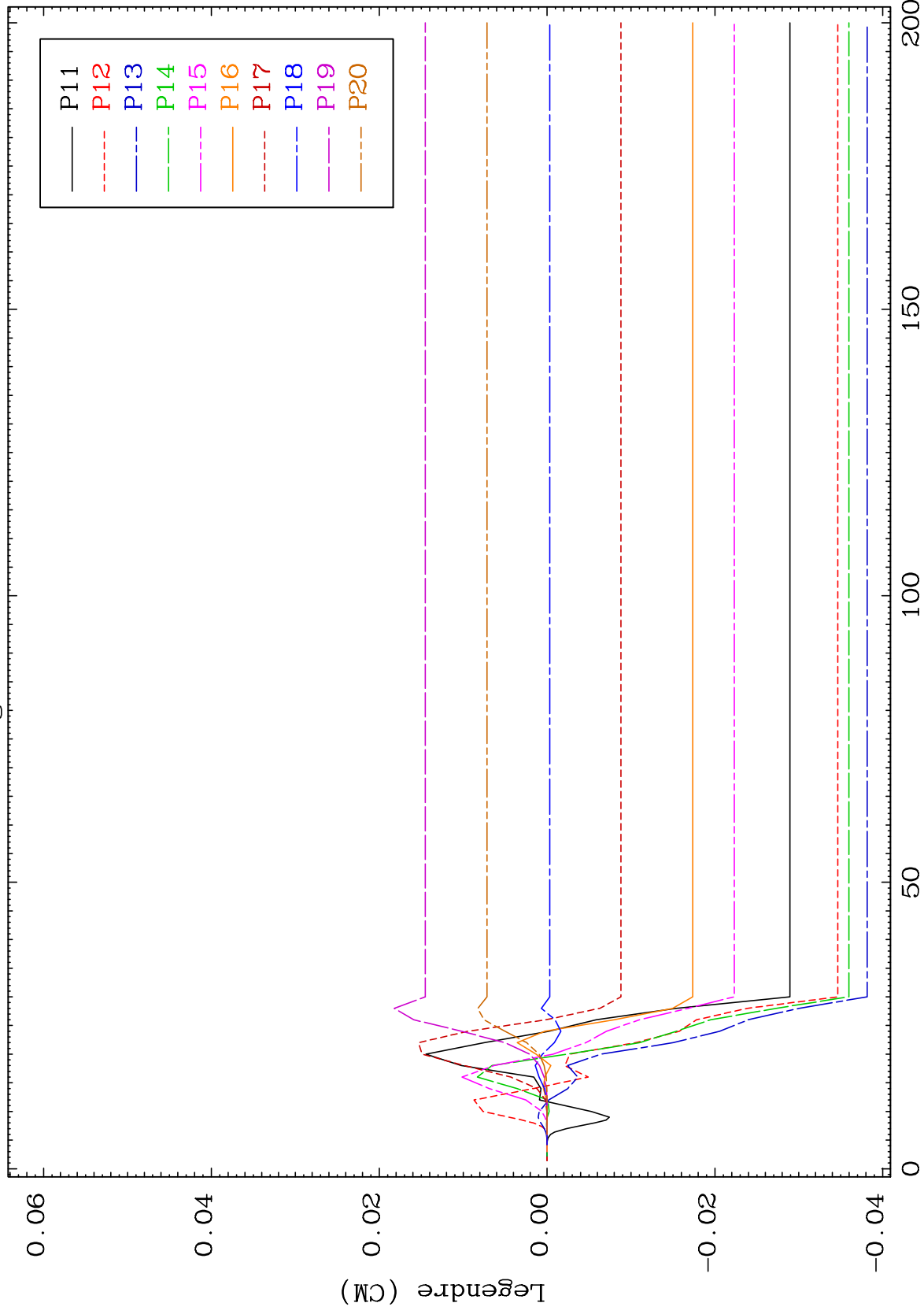
80



MAT 7452

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

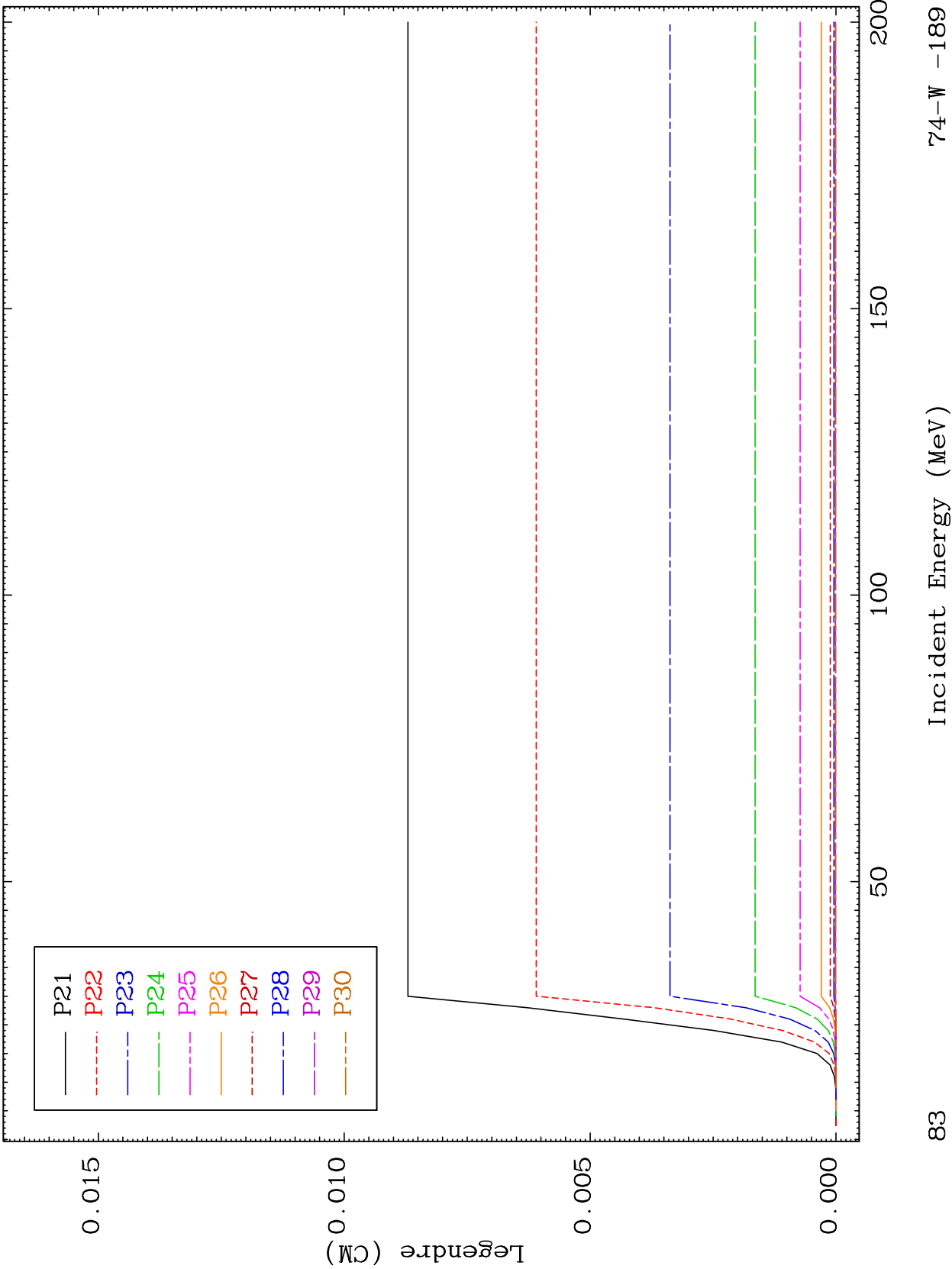
74-W -189

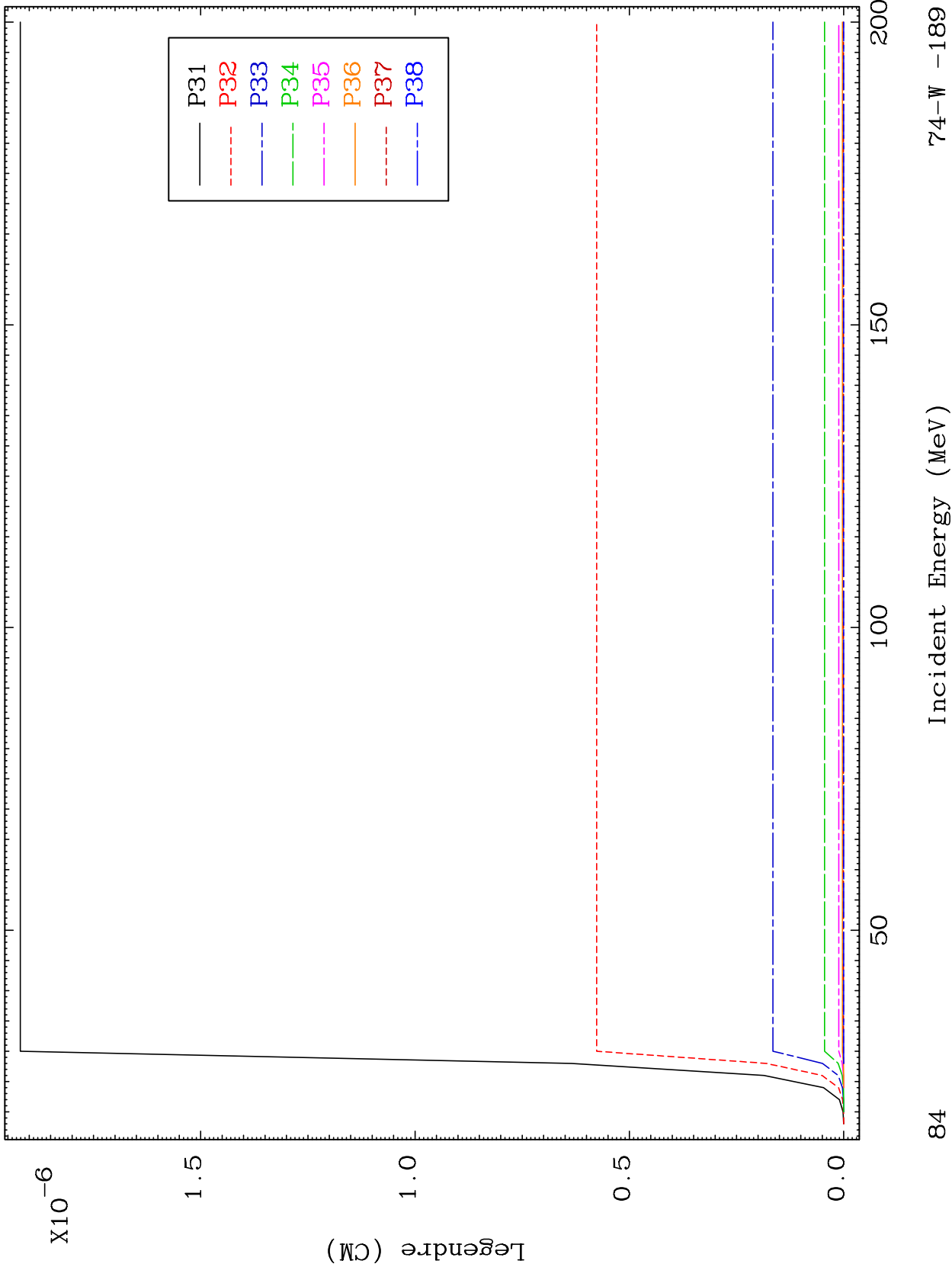


82

Incident Energy (MeV)

74-W -189

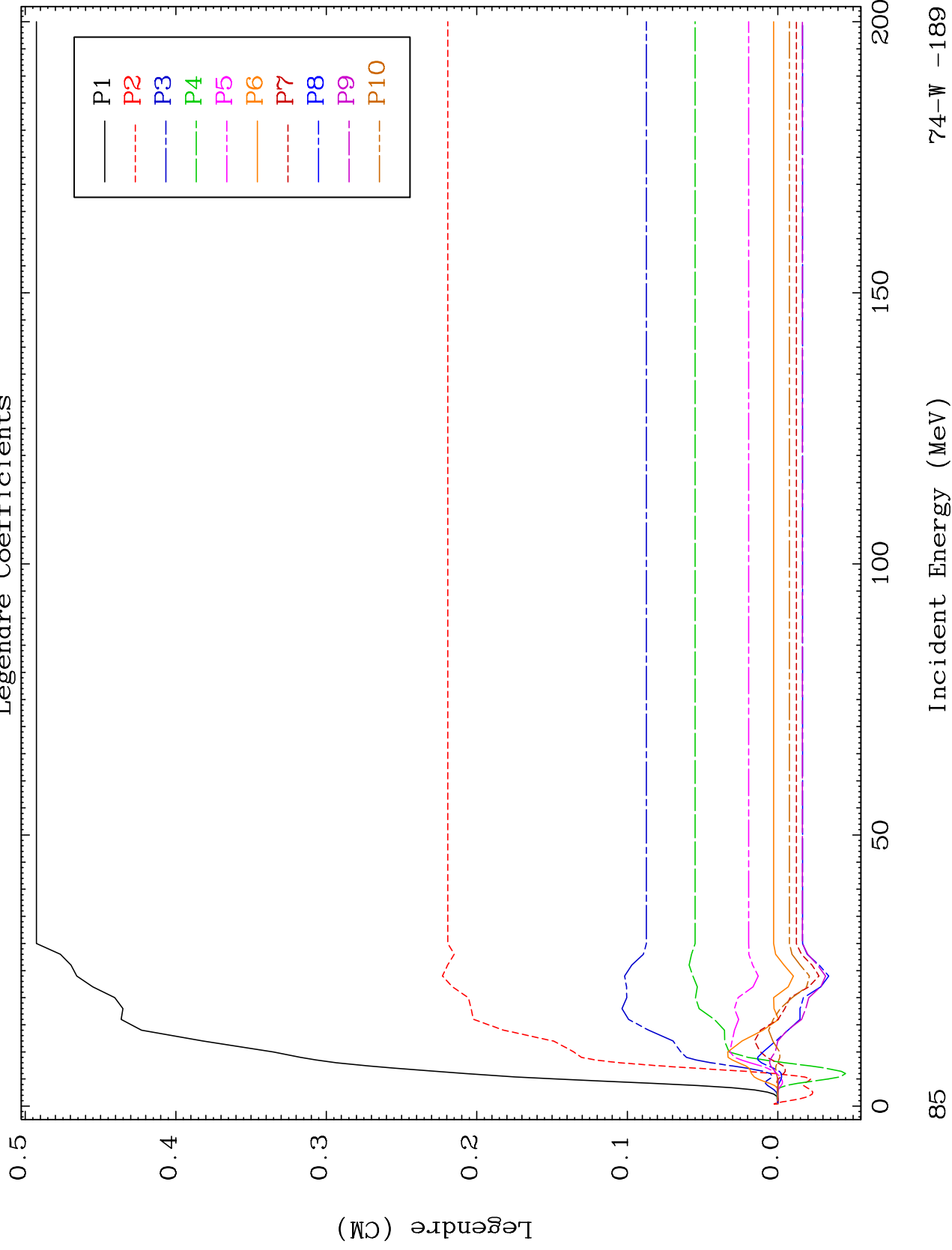




MAT 7452

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

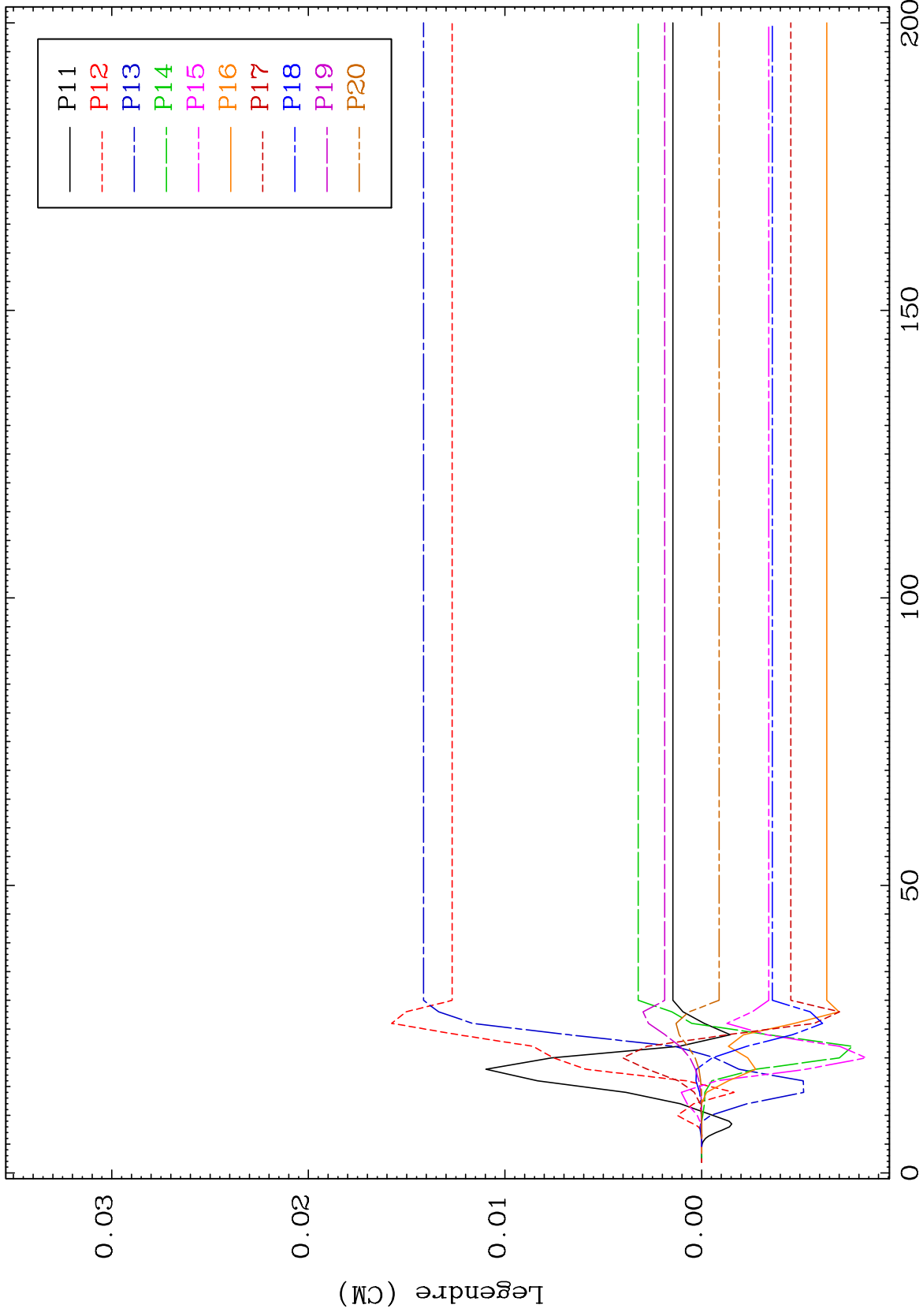
74-W -189



MAT 7452

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

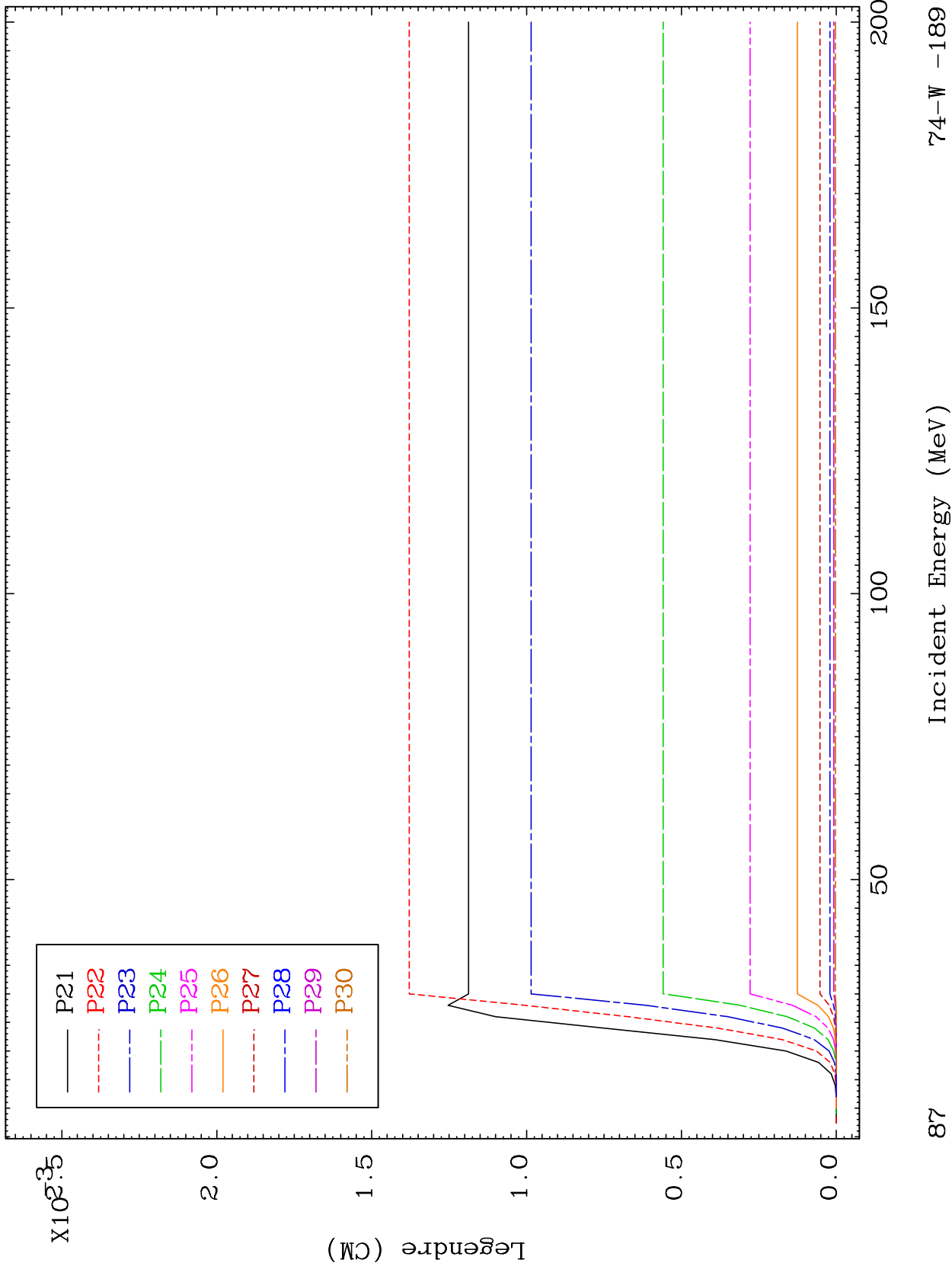
74-W -189

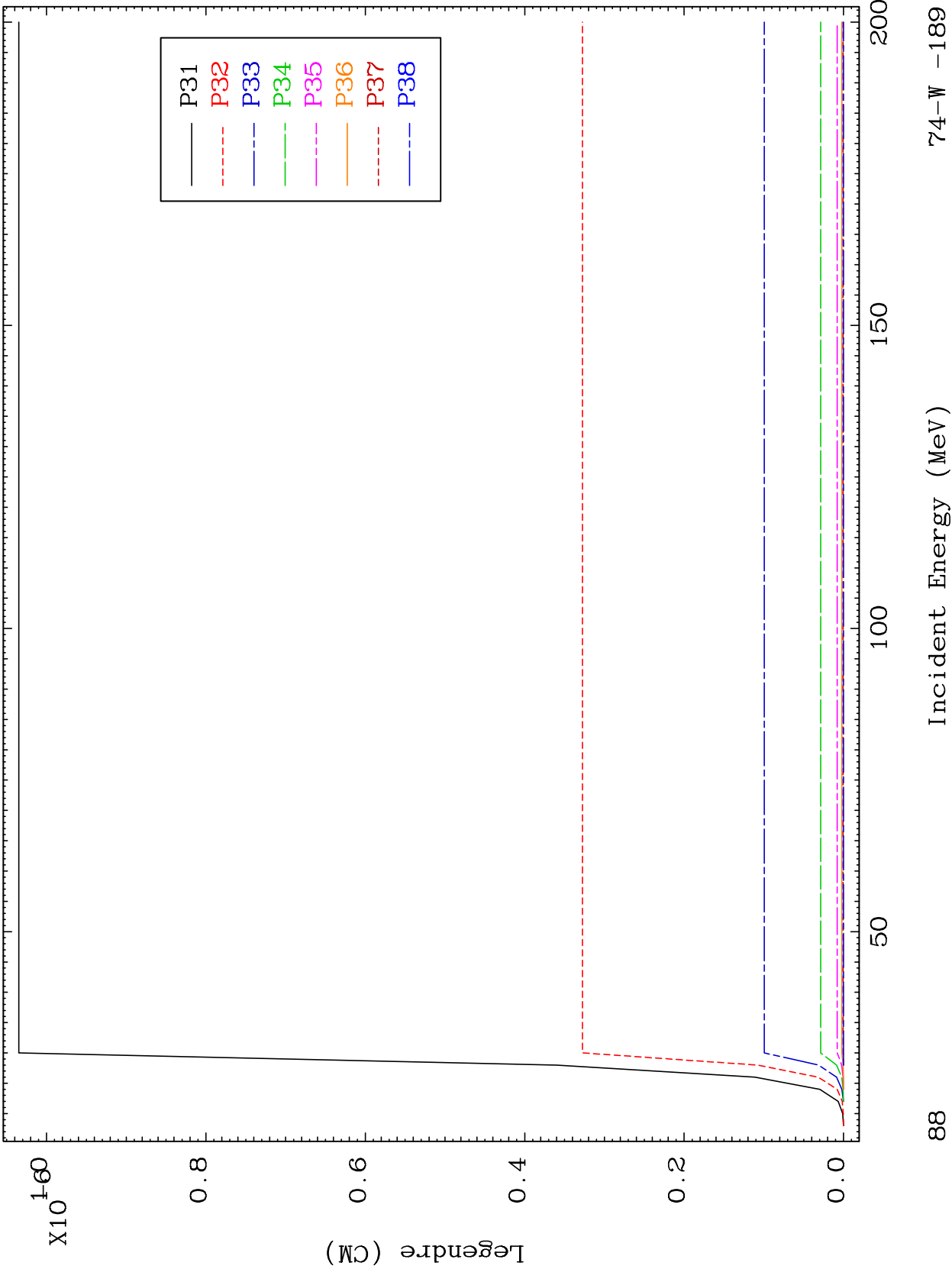


86

Incident Energy (MeV)

74-W -189

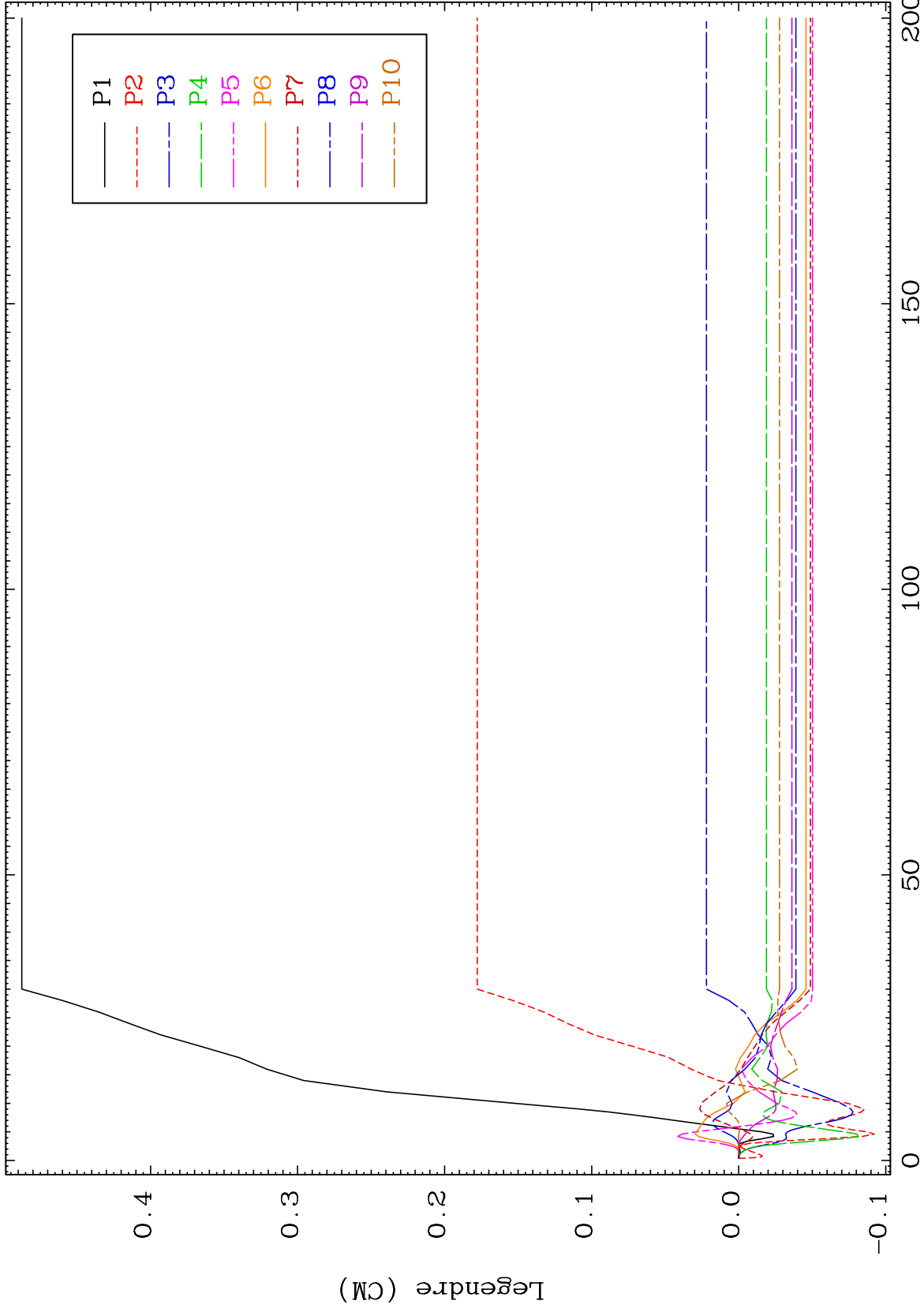




MAT 7452

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

74-W -189



89

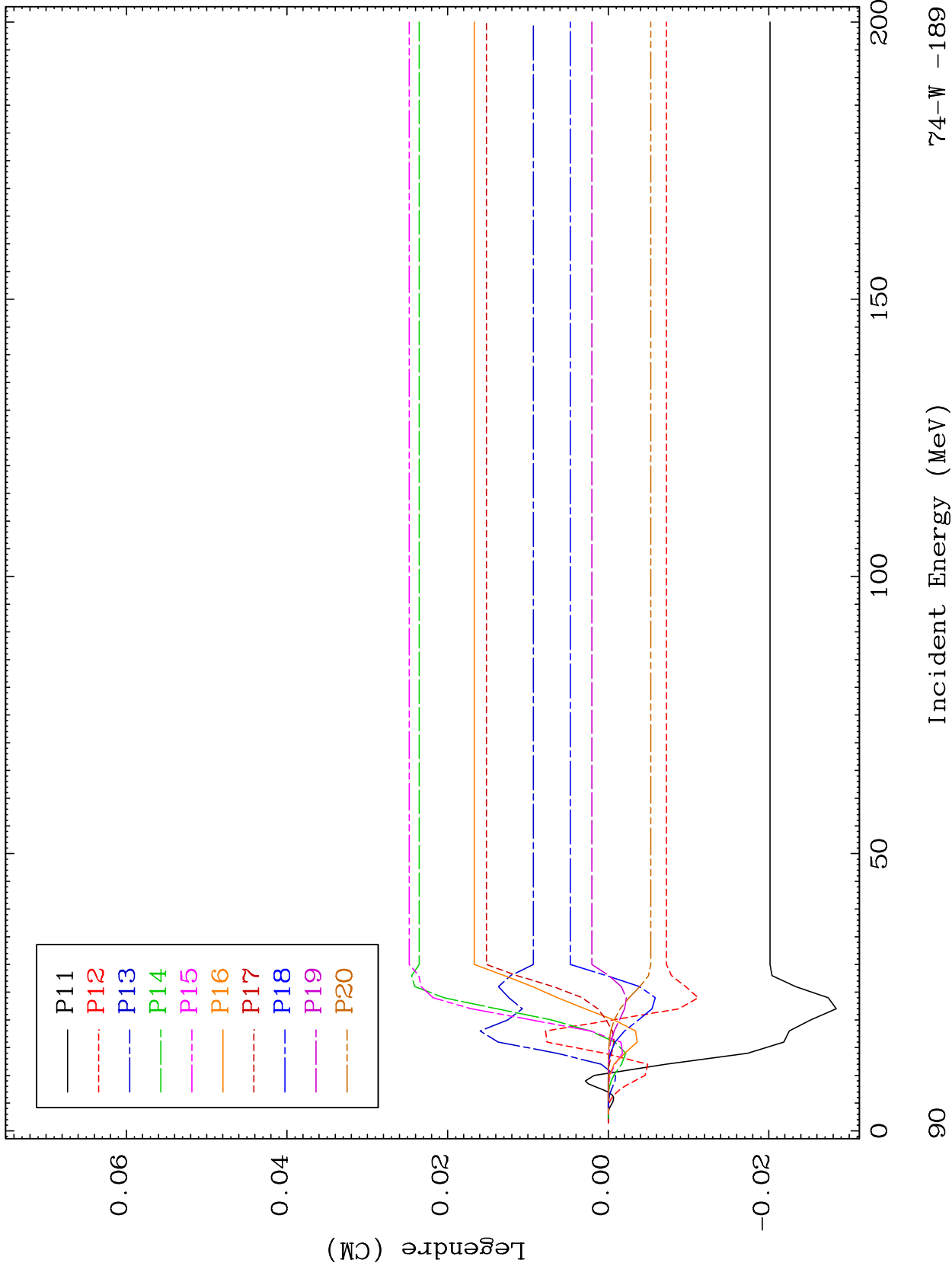
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189

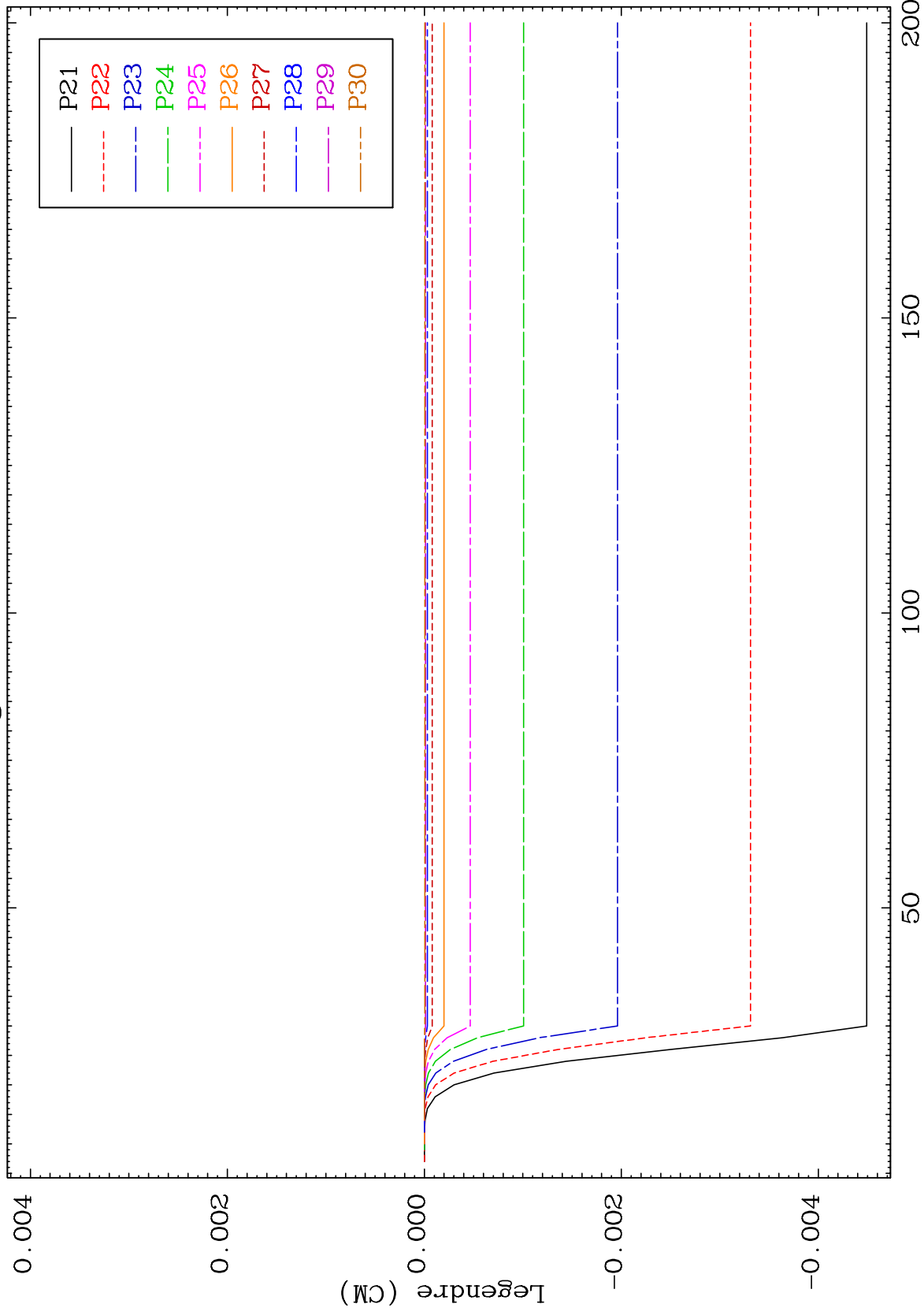


74-W -189

MAT 7452

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

74-W -189



91

Incident Energy (MeV)

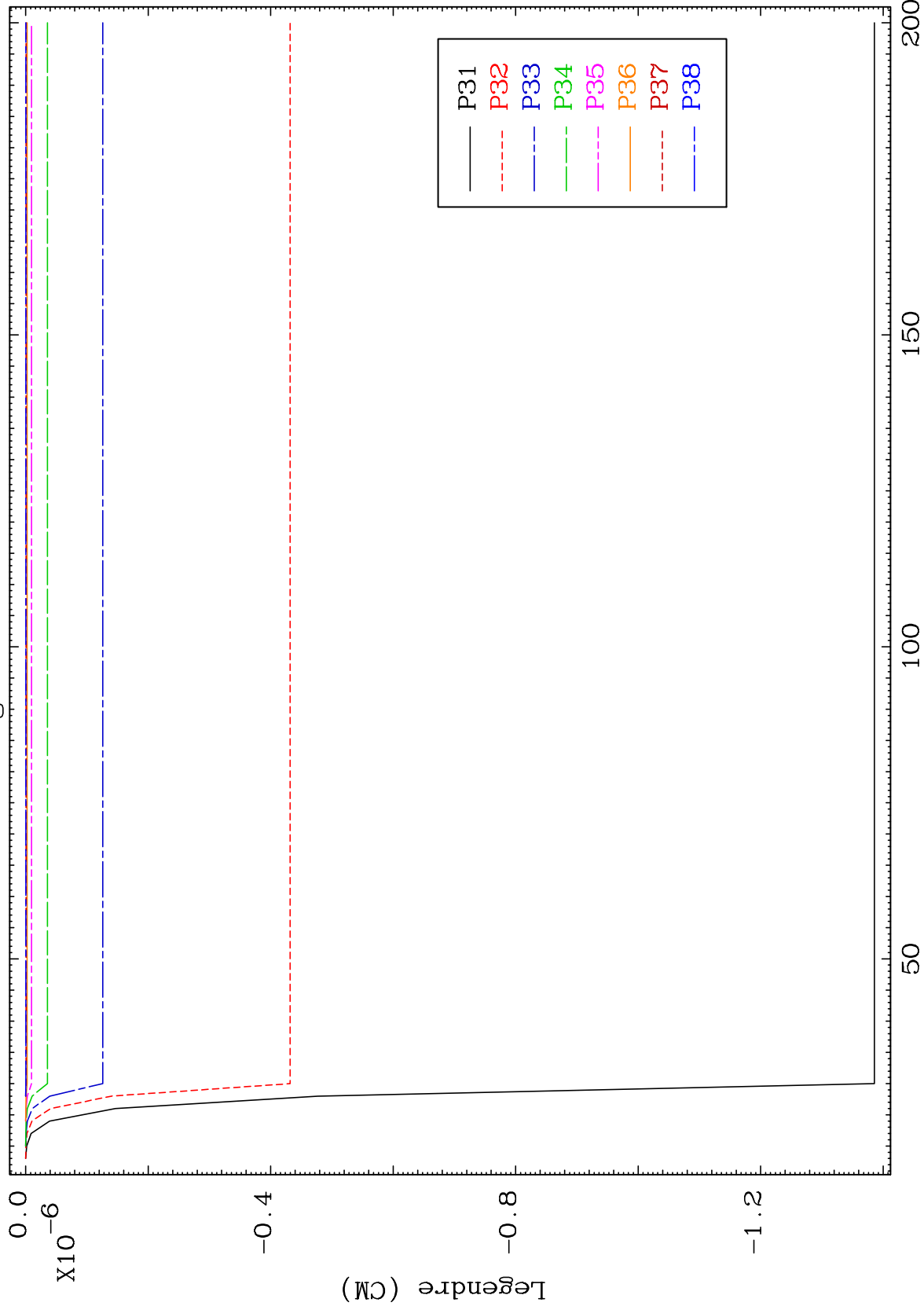
74-W -189

MAT 7452

MT= 68 (n,n') Level

74-W -189

Legendre Coefficients



92

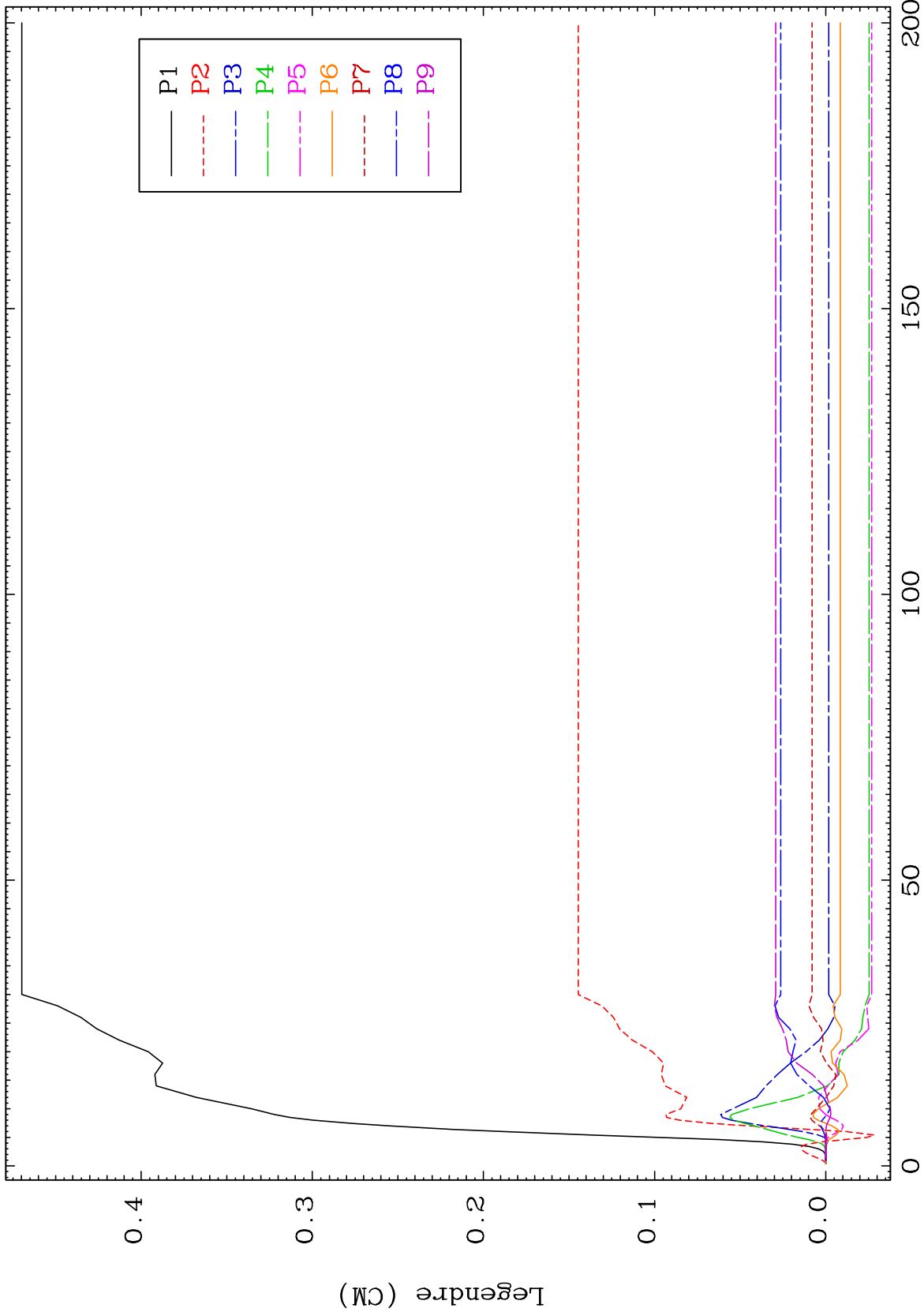
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



93

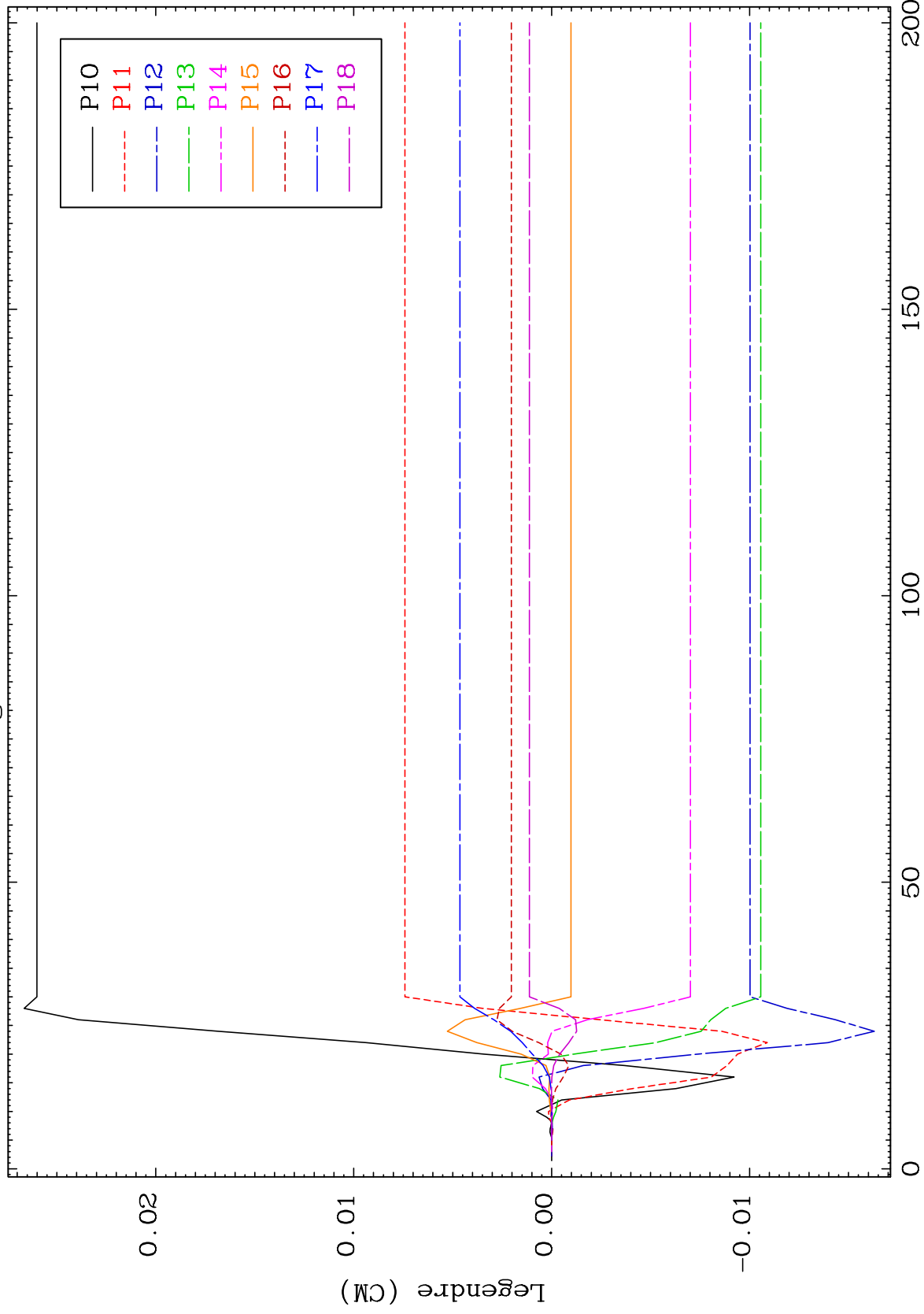
Incident Energy (MeV)

74-W -189

MAT 7452

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

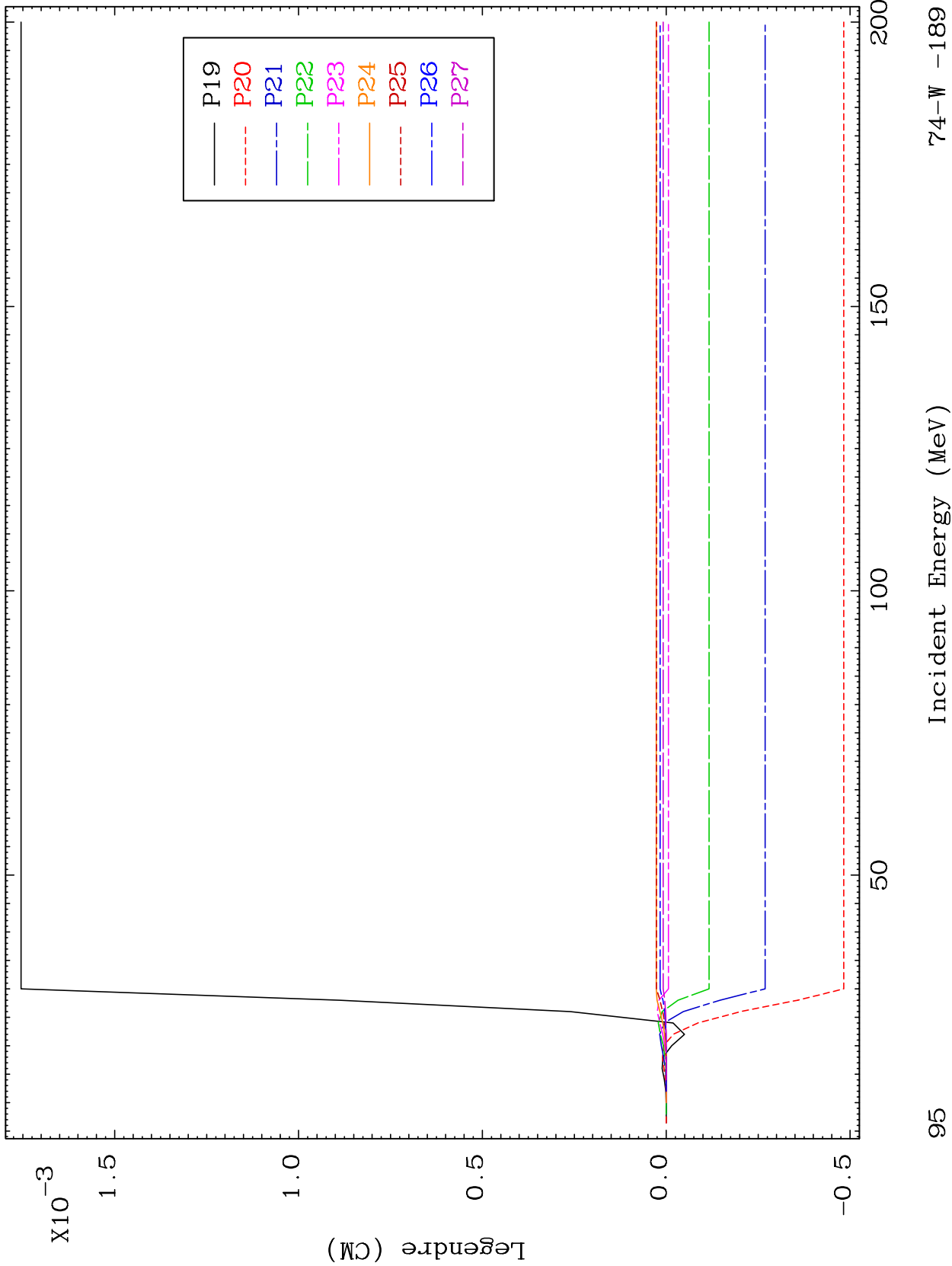
74-W -189



94

Incident Energy (MeV)

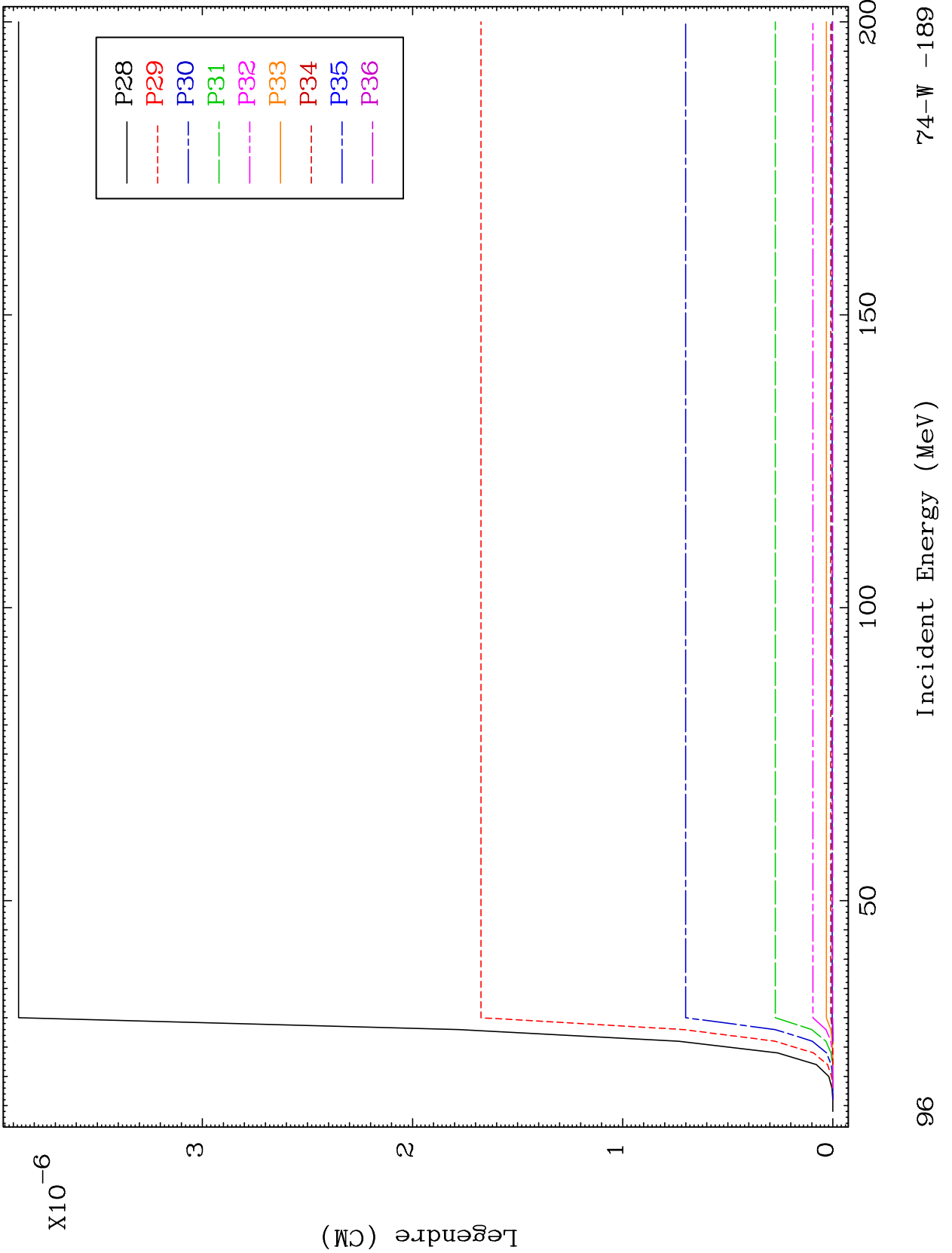
74-W -189



MAT 7452

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

74-W -189



96

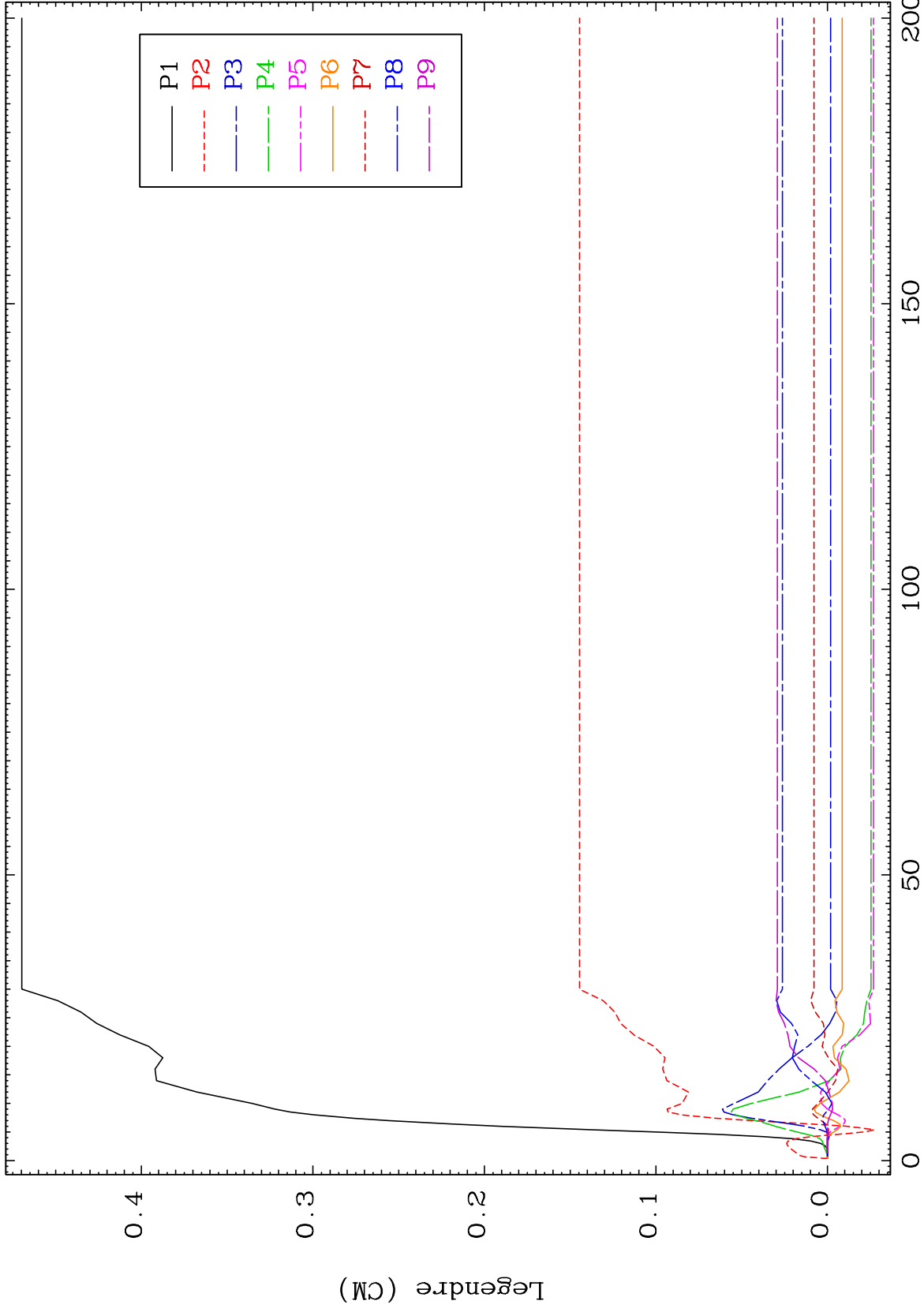
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



97

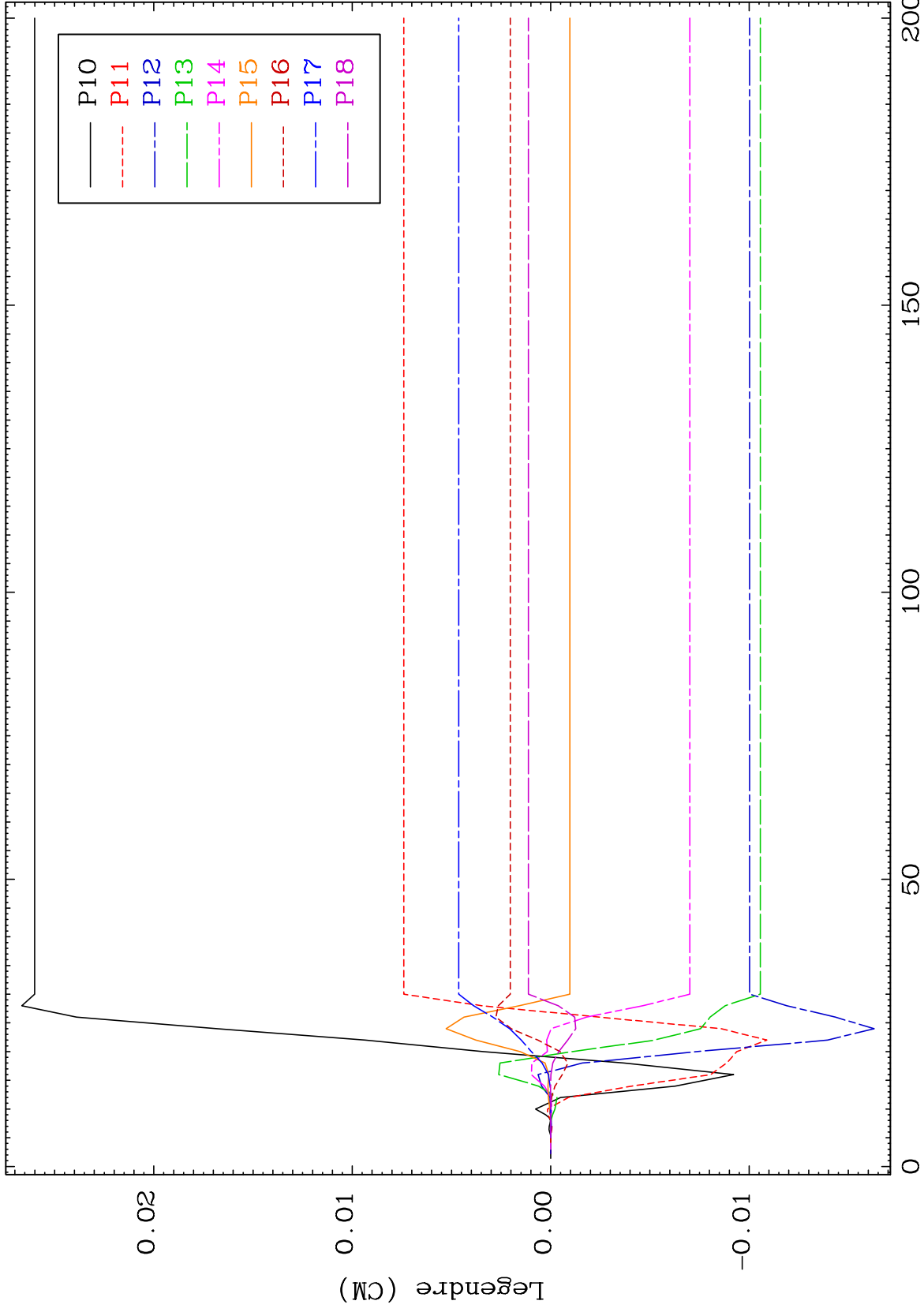
Incident Energy (MeV)

74-W -189

MAT 7452

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

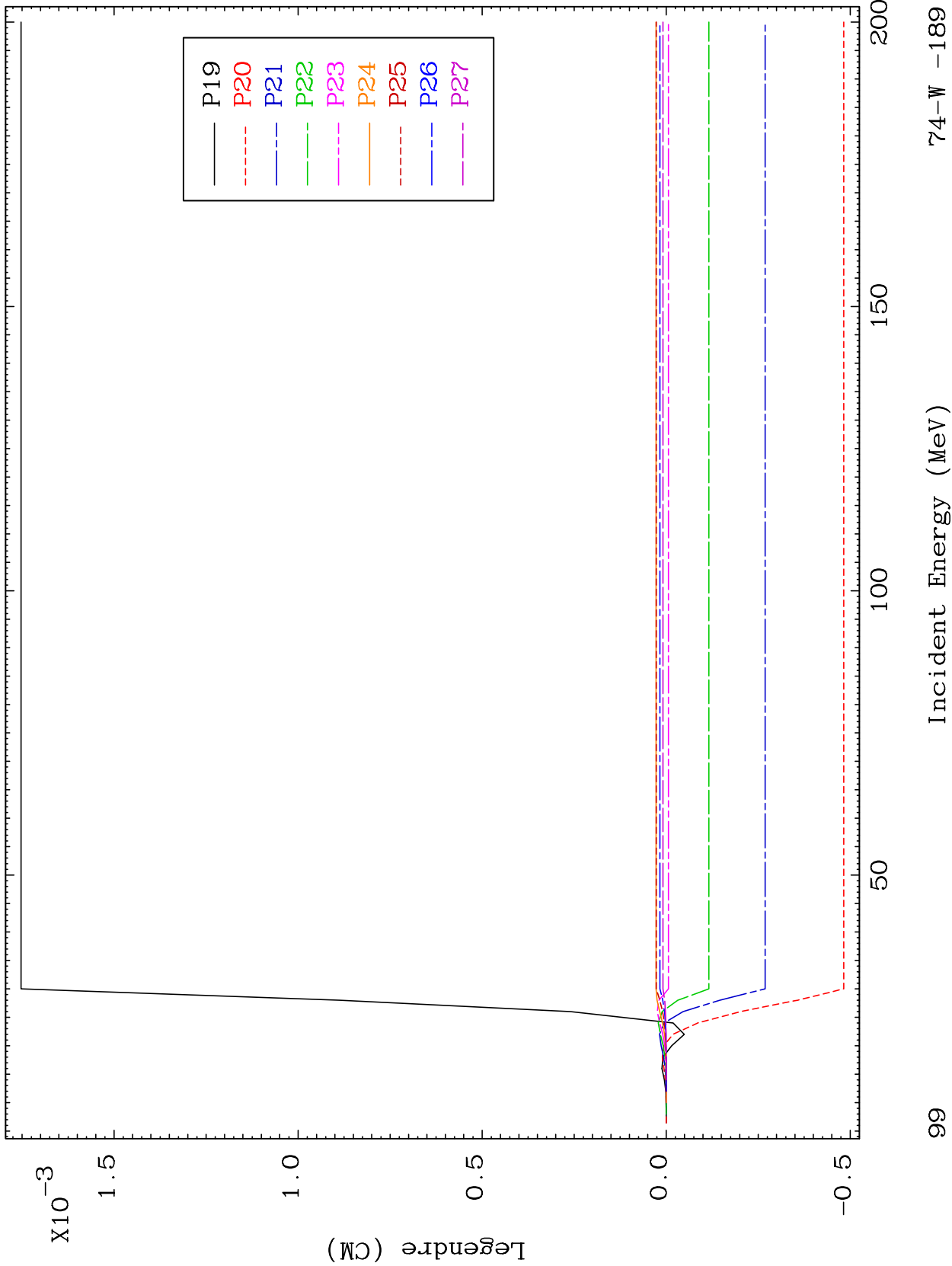
74-W -189



98

Incident Energy (MeV)

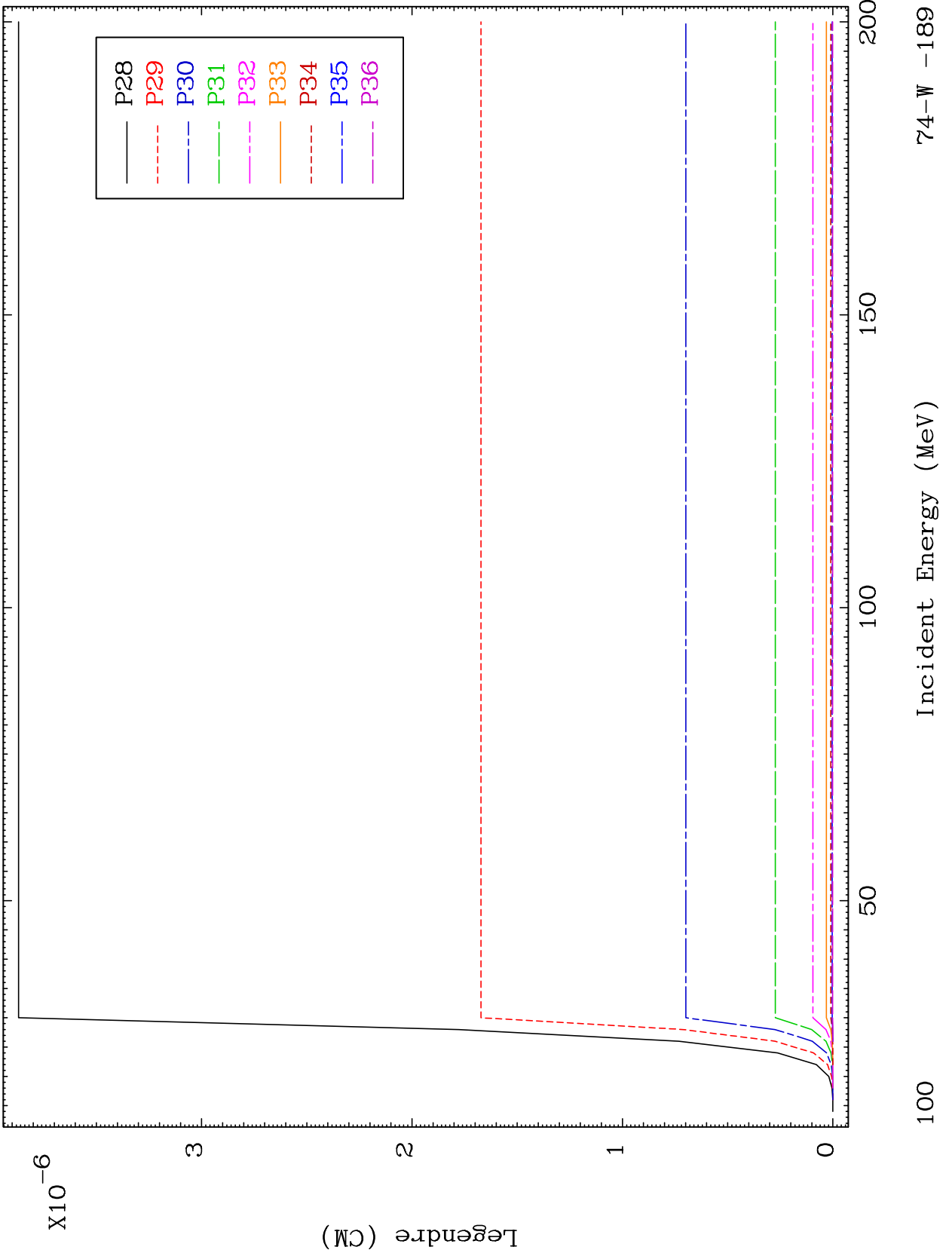
74-W -189



MAT 7452

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

74-W -189



100

50

100

150

200

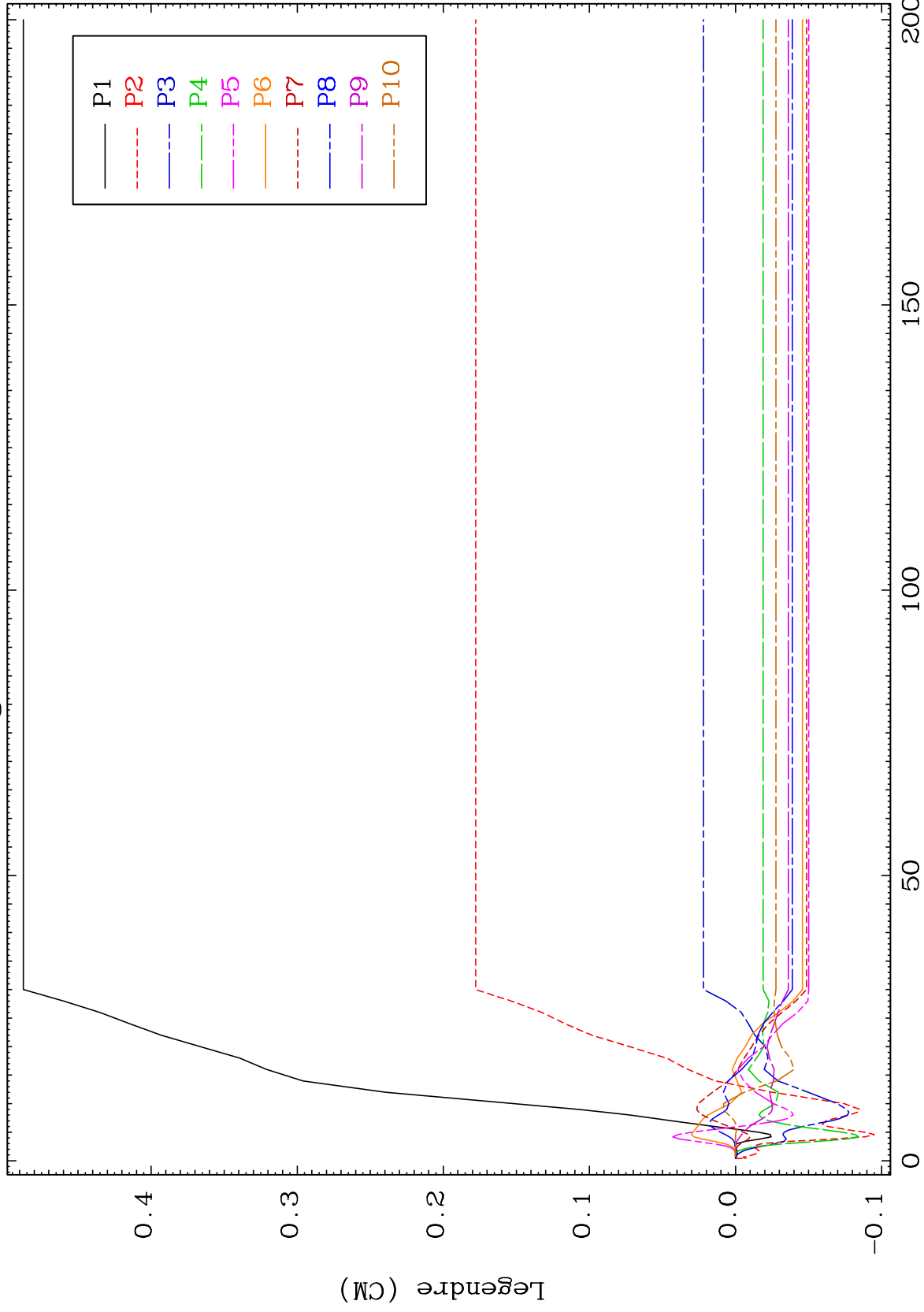
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



101

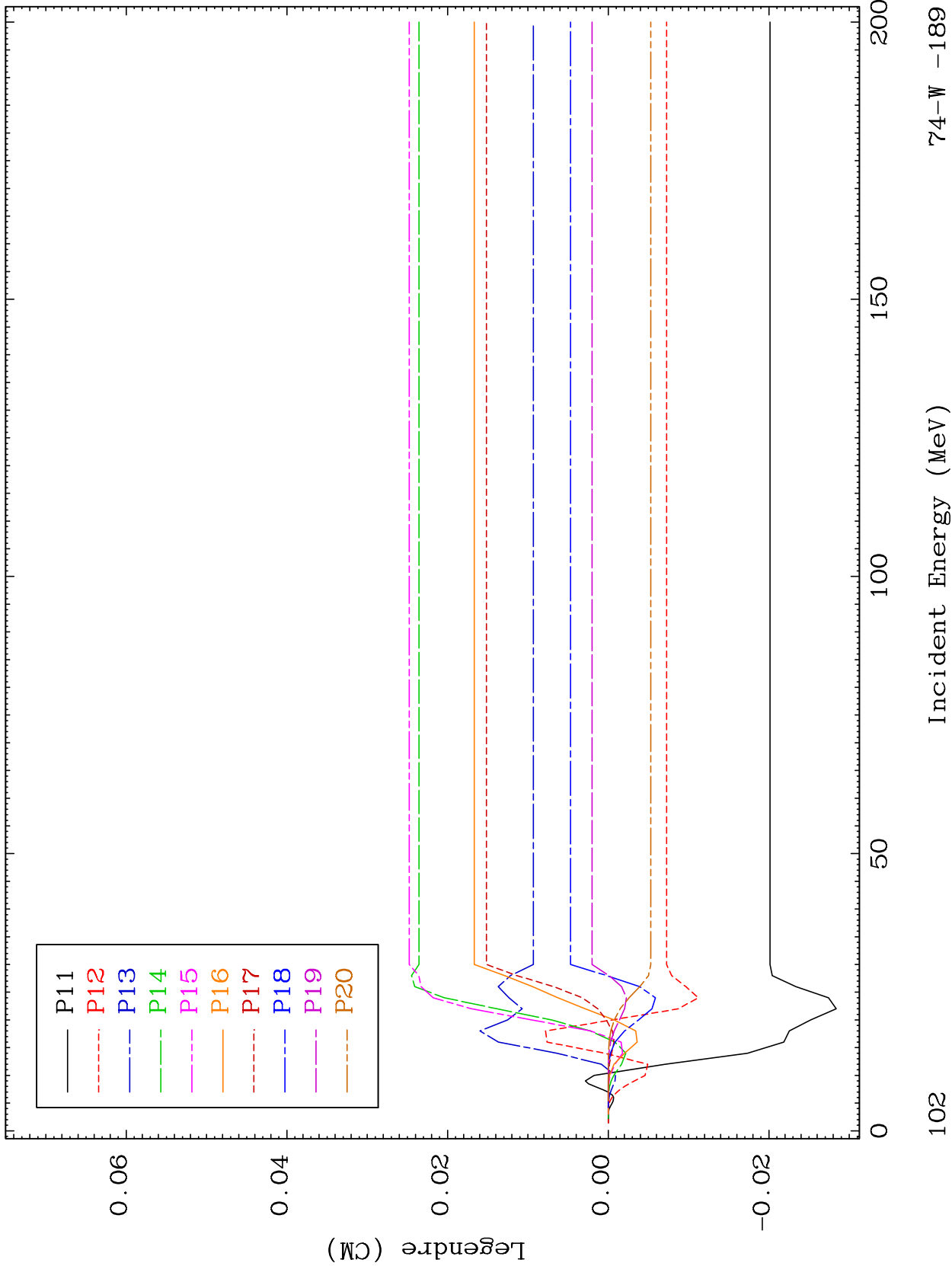
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



102

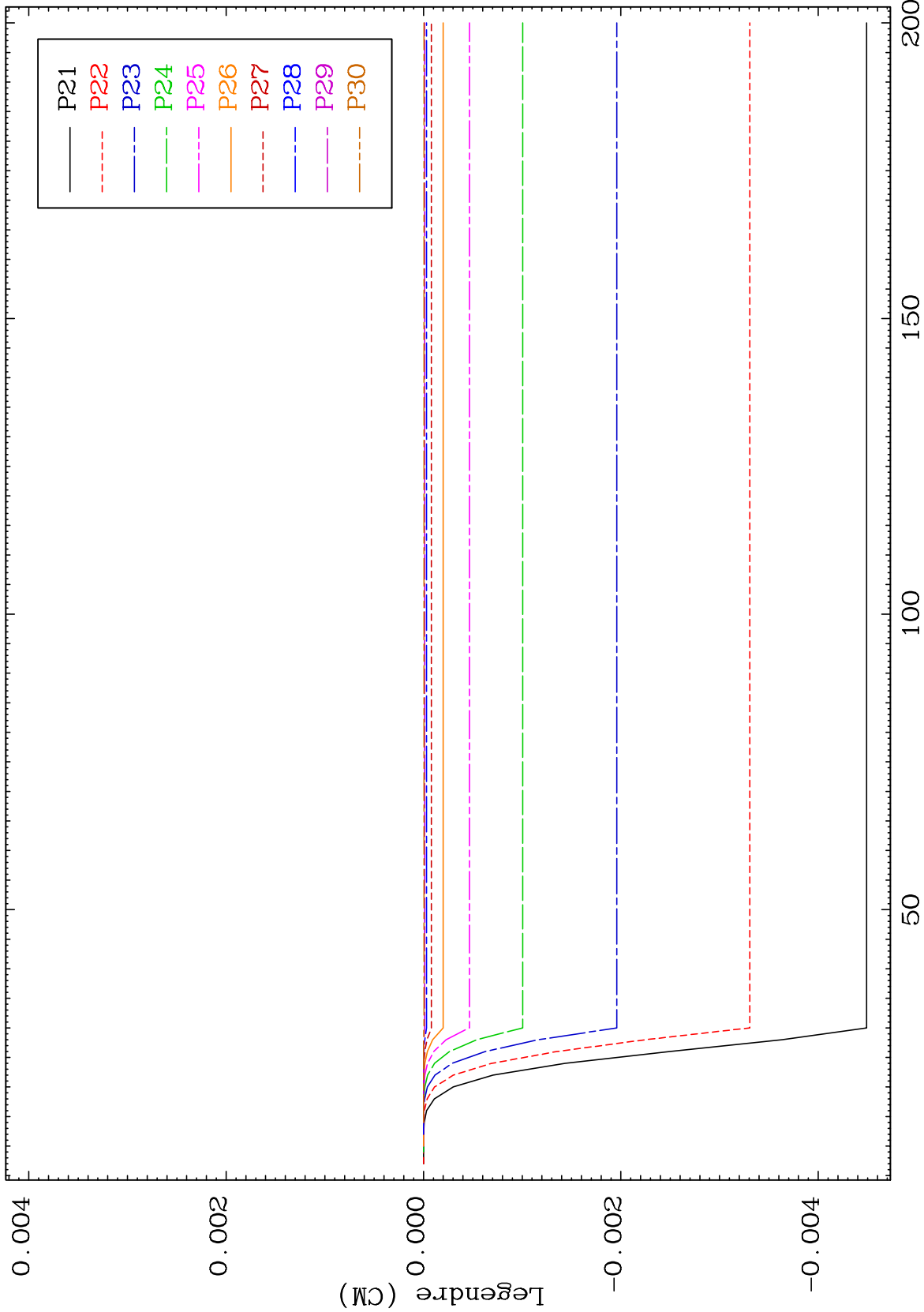
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



103

Incident Energy (MeV)

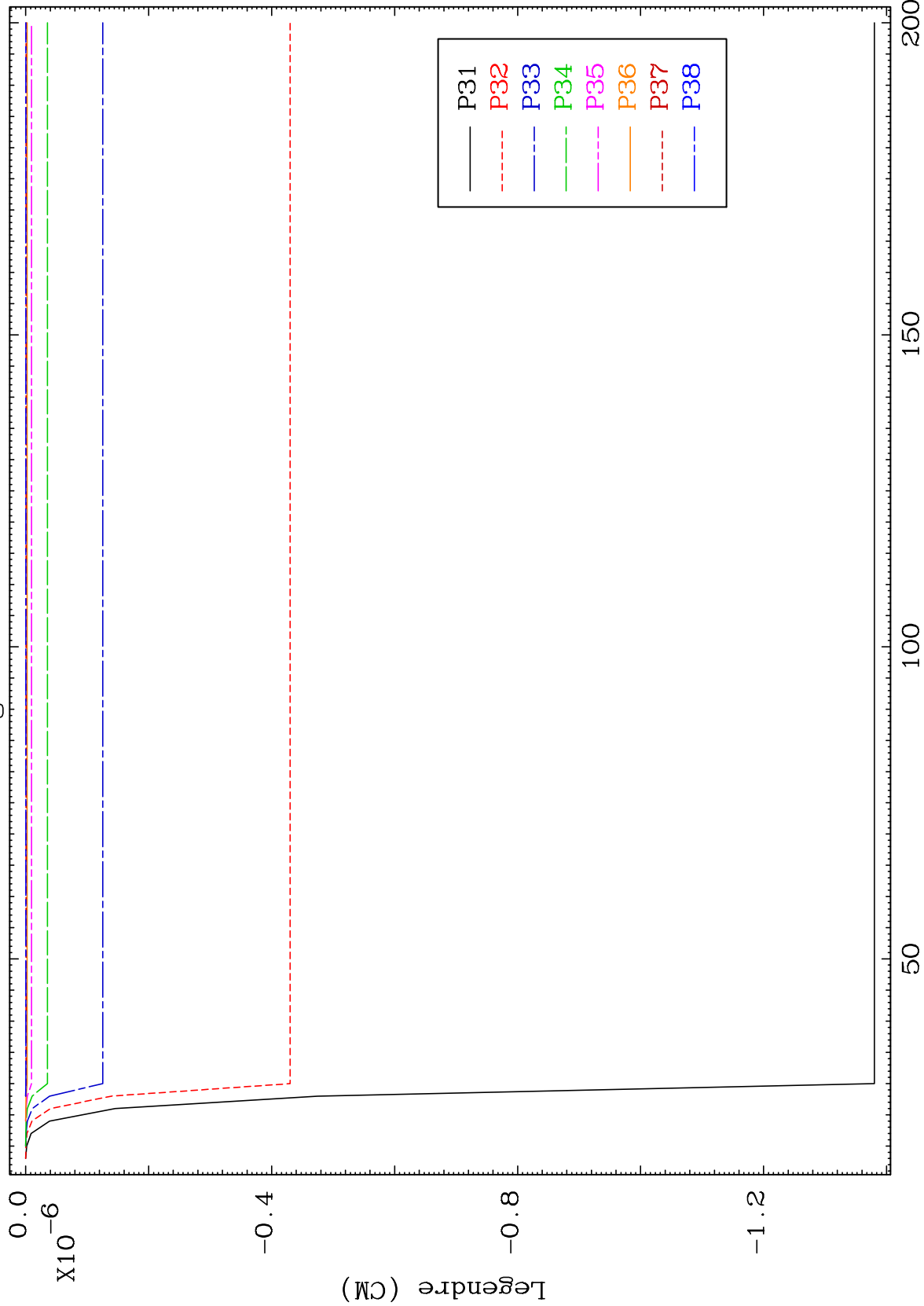
74-W -189

MAT 7452

MT= 71 (n,n') Level

74-W -189

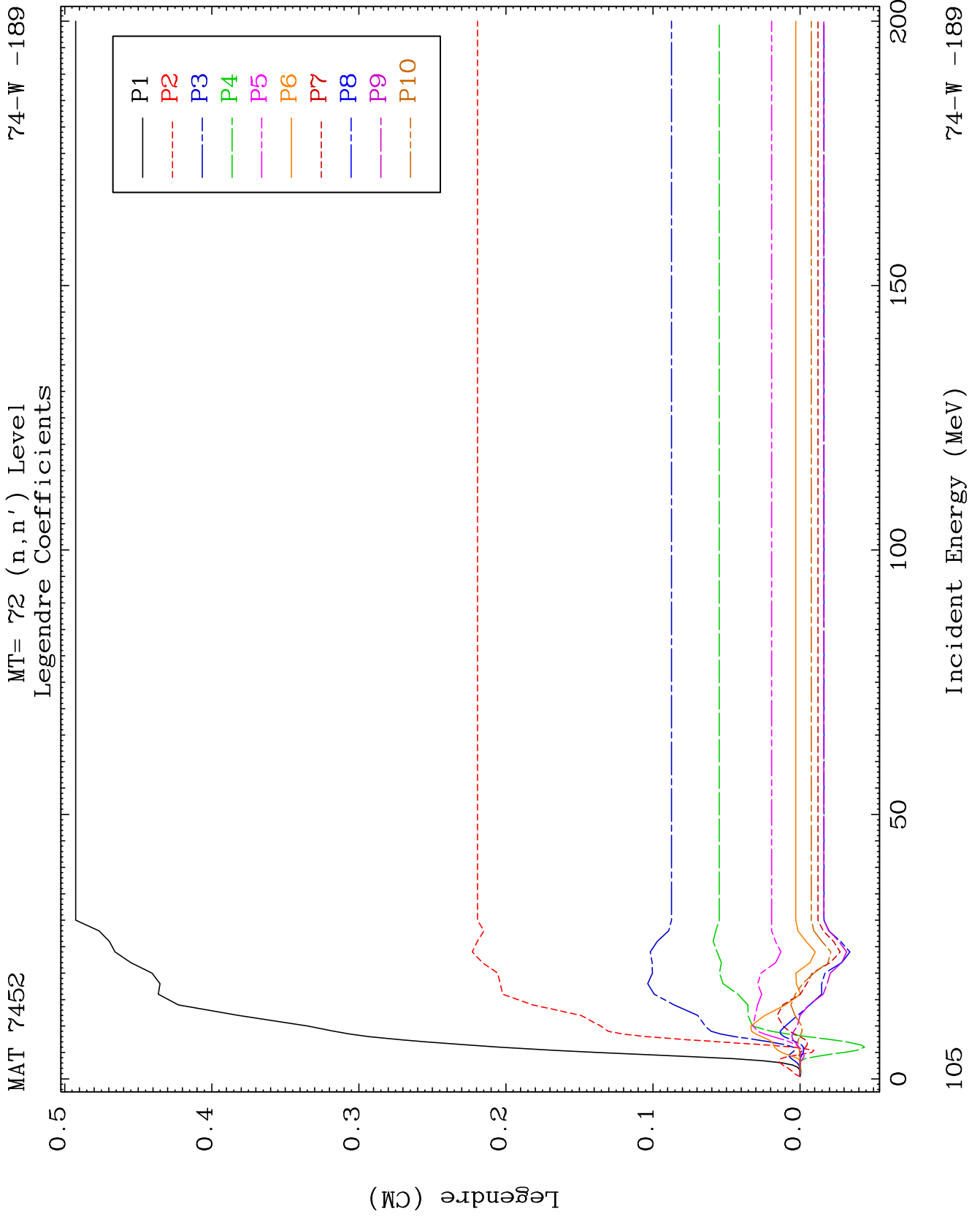
Legendre Coefficients



74-W -189

Incident Energy (MeV)

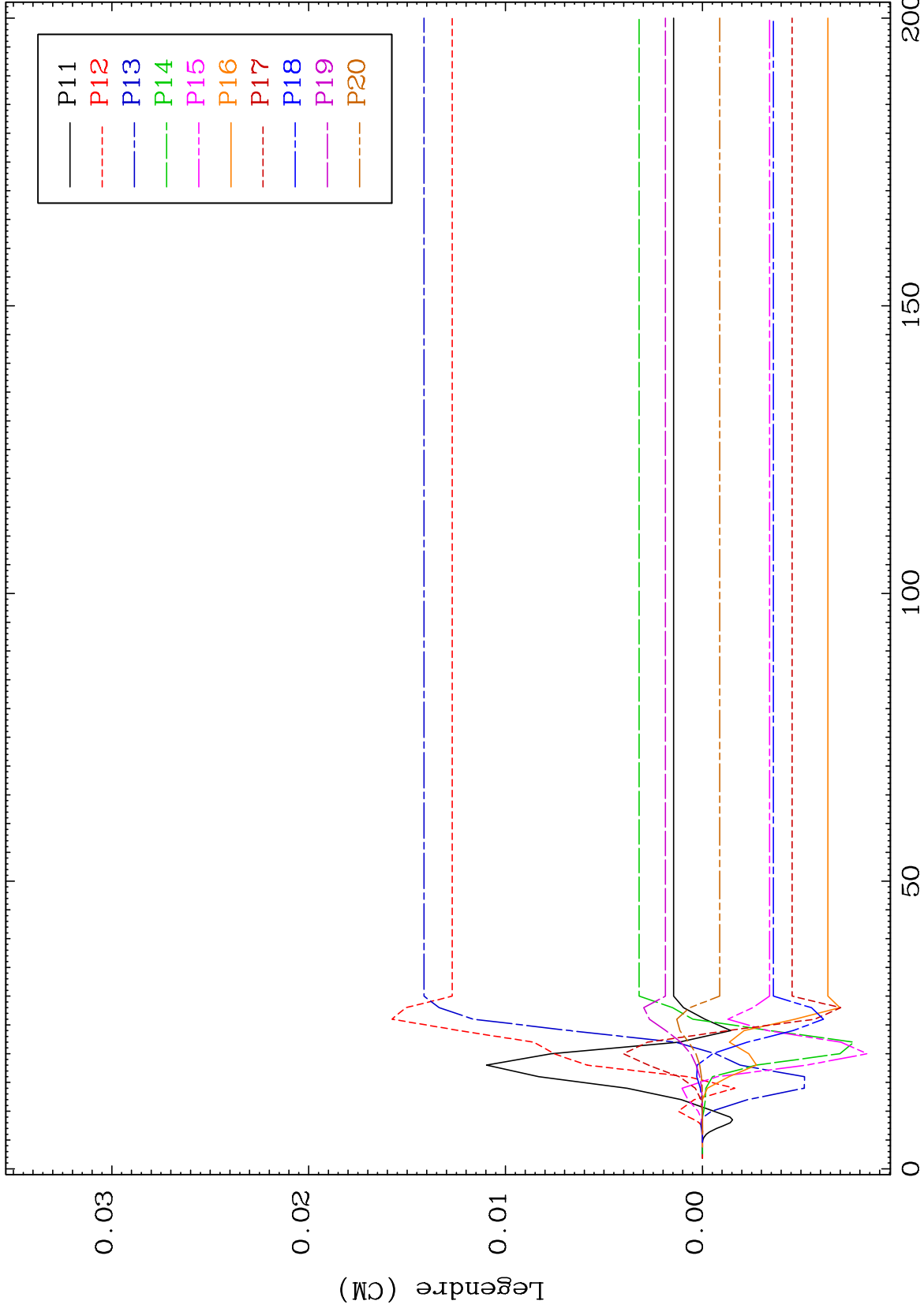
104



MAT 7452

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

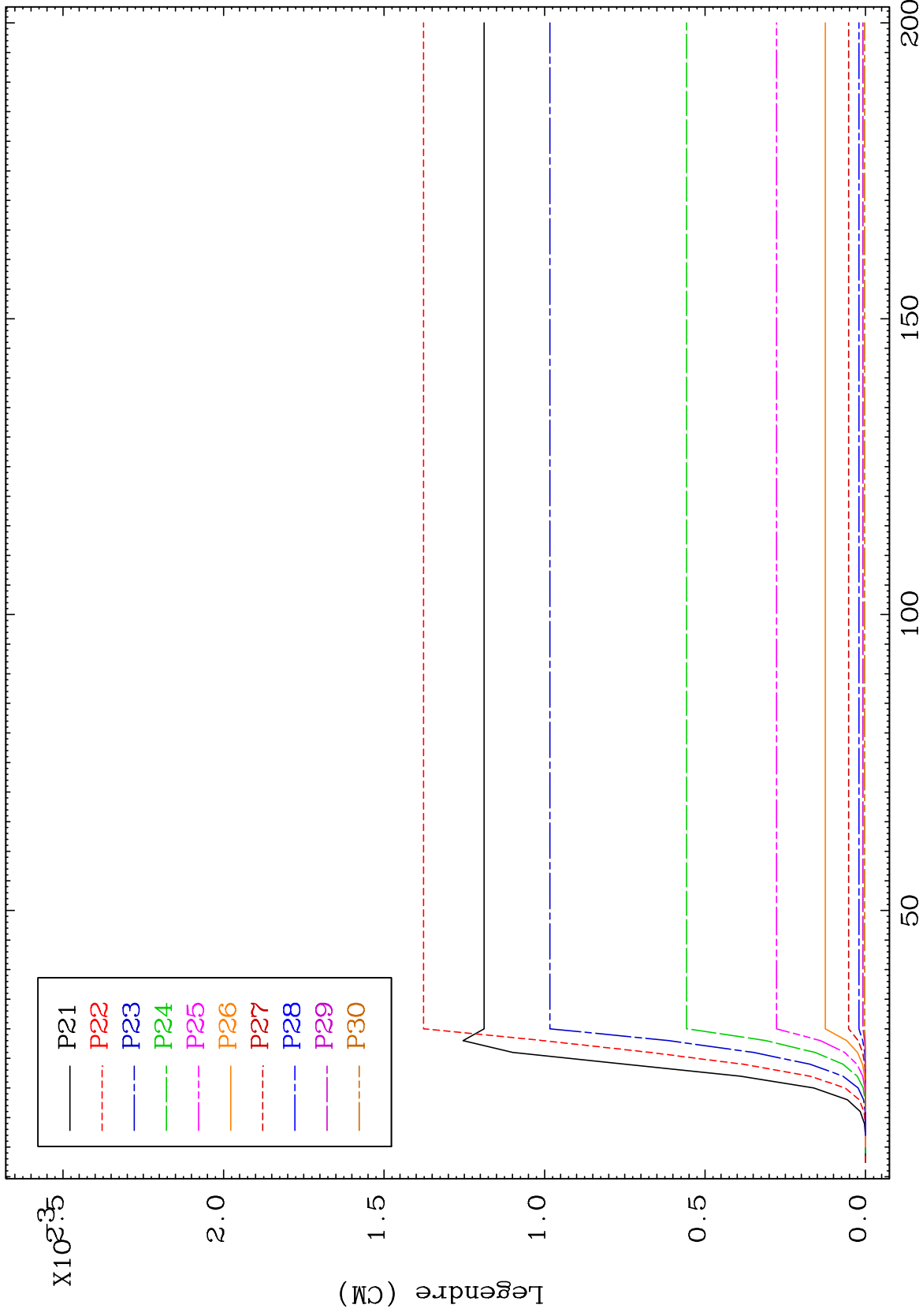
74-W -189



74-W -189

Incident Energy (MeV)

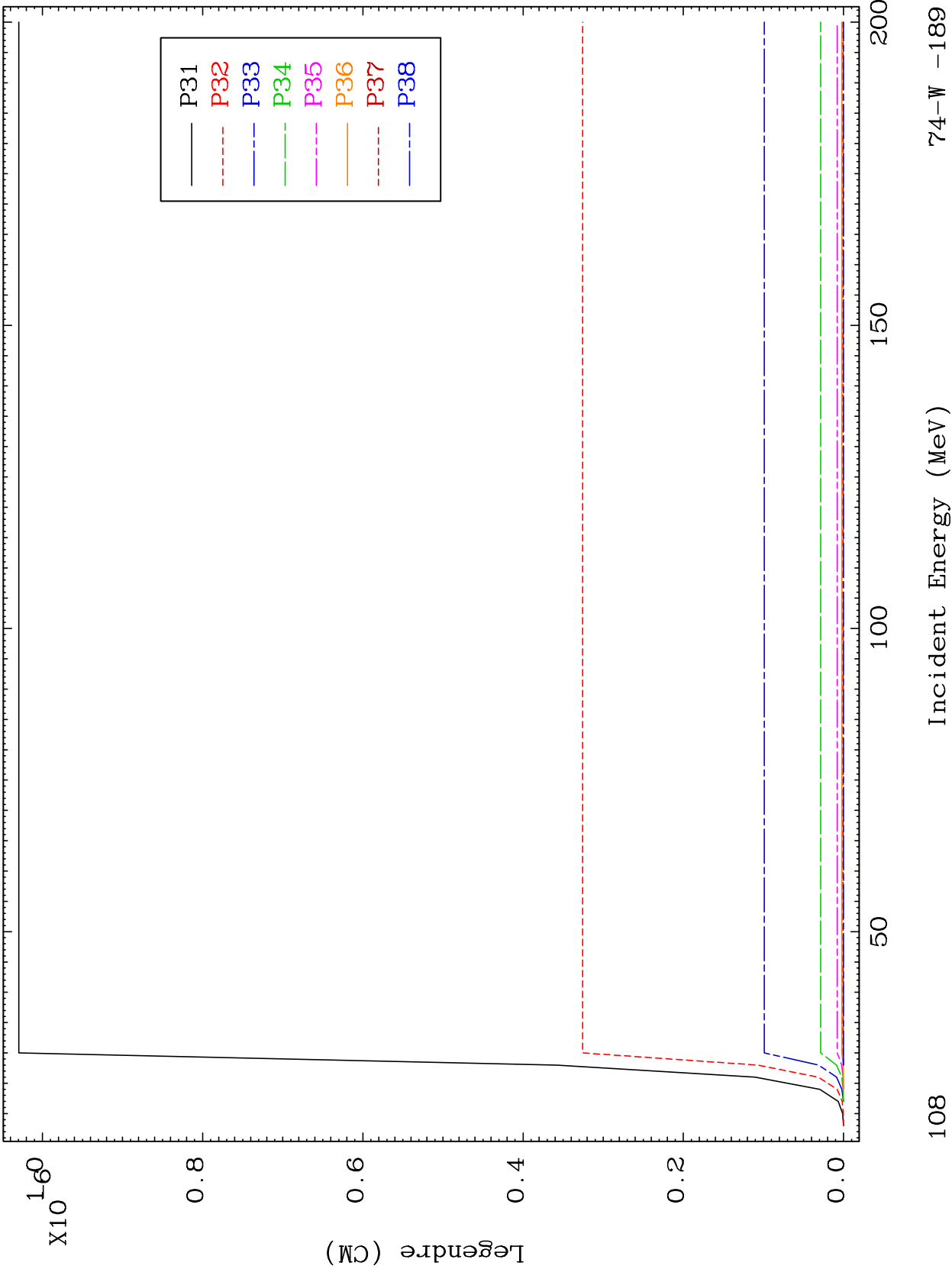
106



MAT 7452

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

74-W -189



108

Incident Energy (MeV)

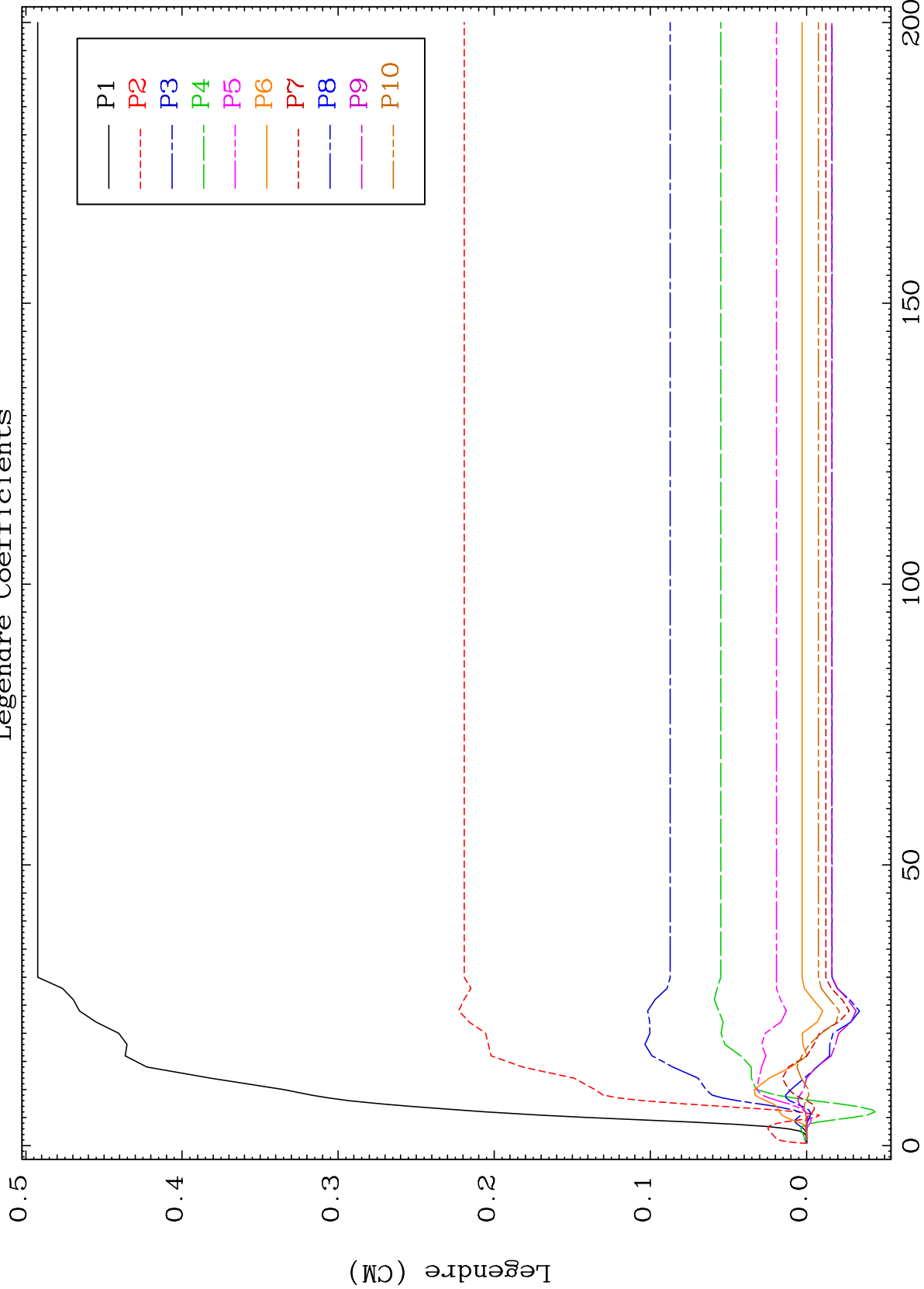
74-W -189

MAT 7452

MT= 73 (n,n') Level

74-W -189

Legendre Coefficients



109

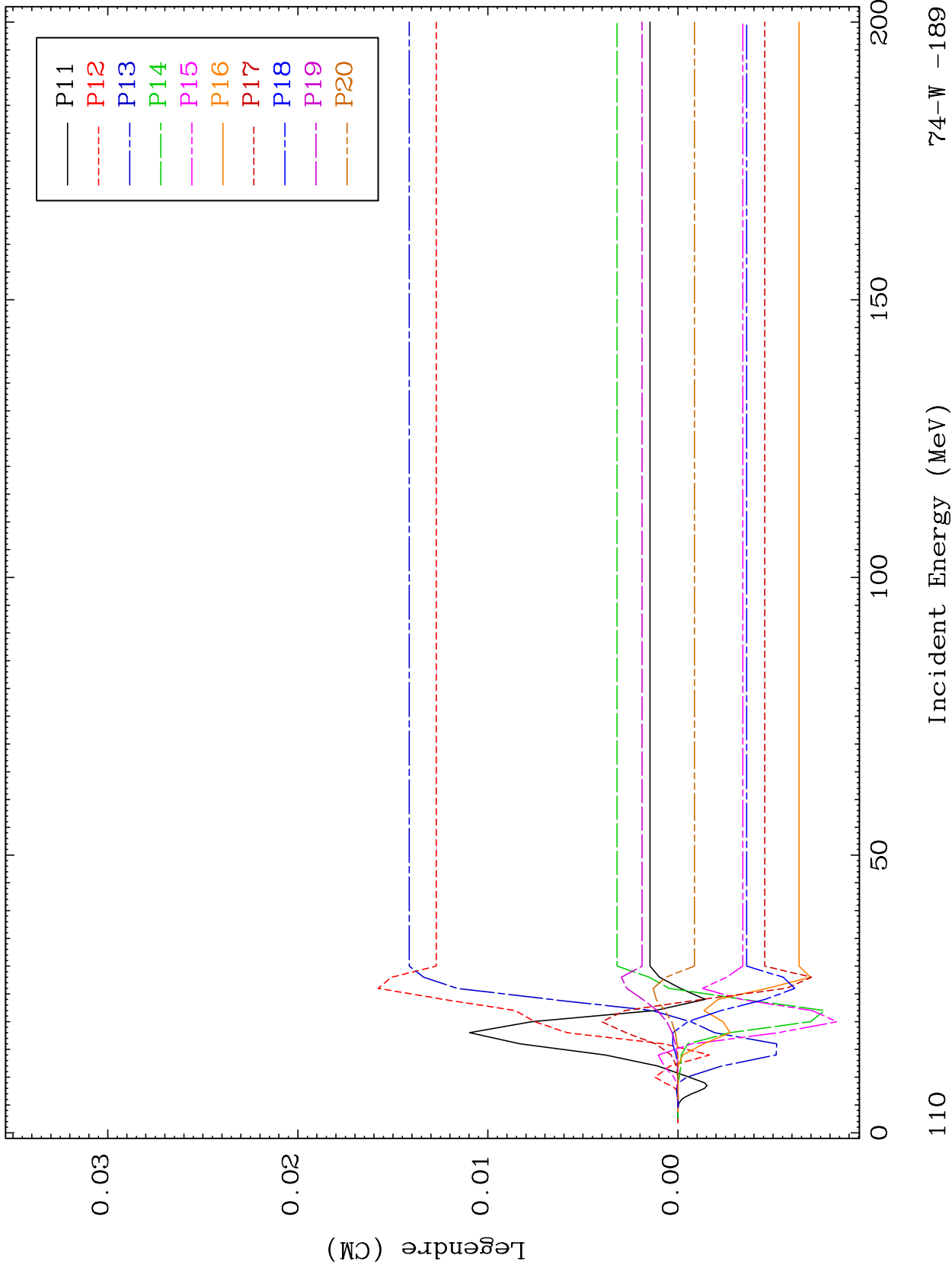
Incident Energy (MeV)

74-W -189

MAT 7452

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

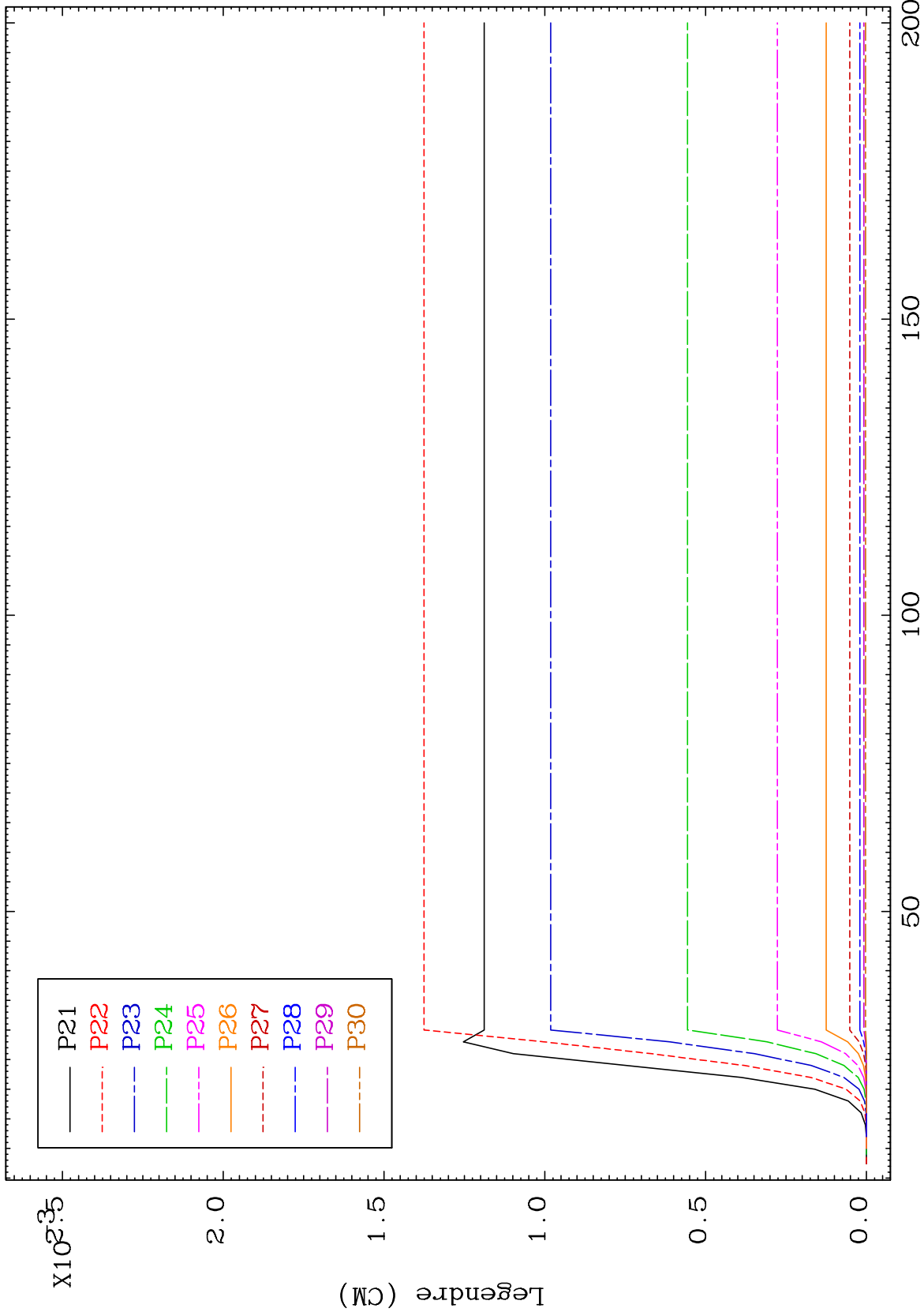
74-W -189

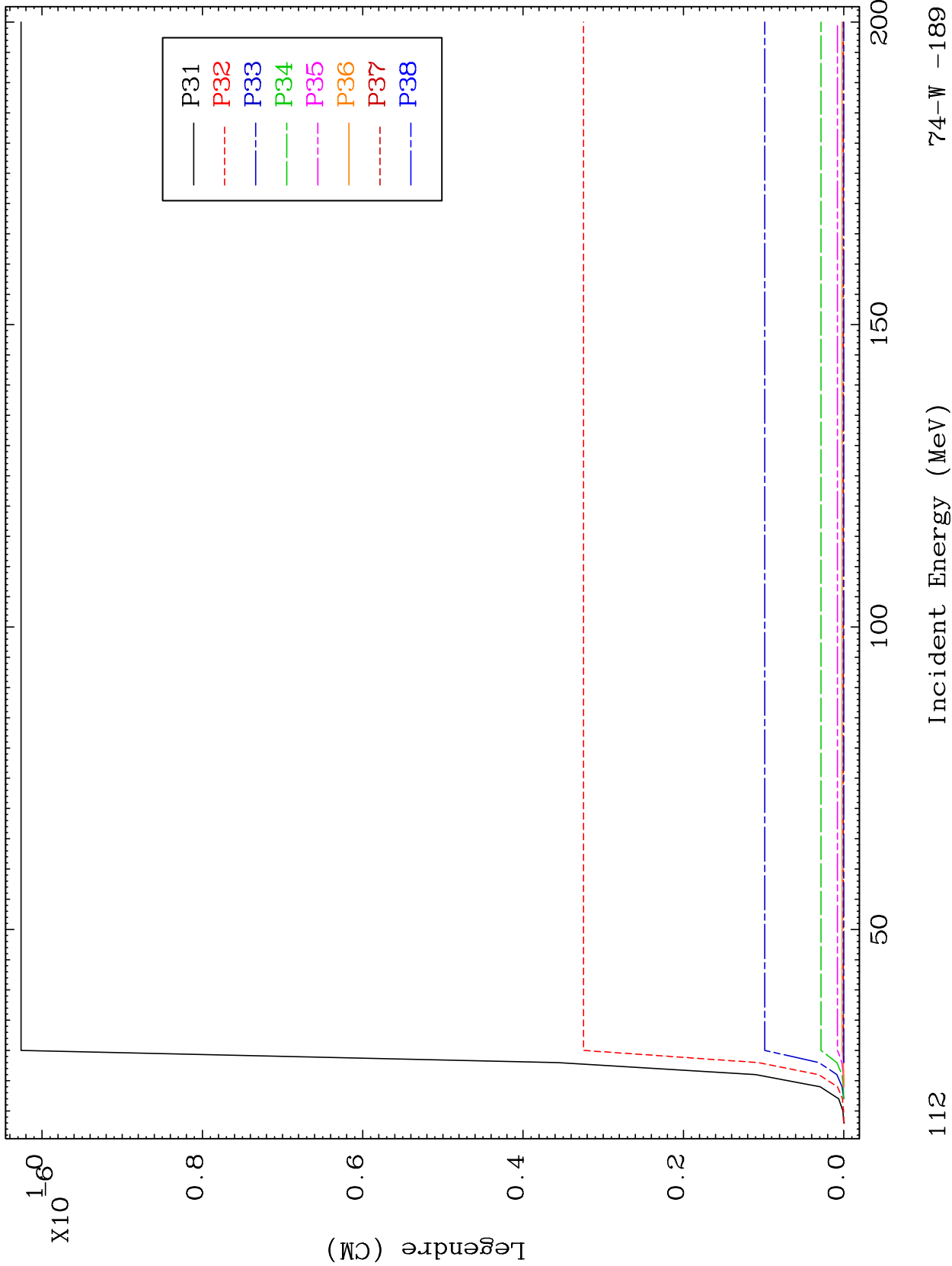


74-W -189

Incident Energy (MeV)

110

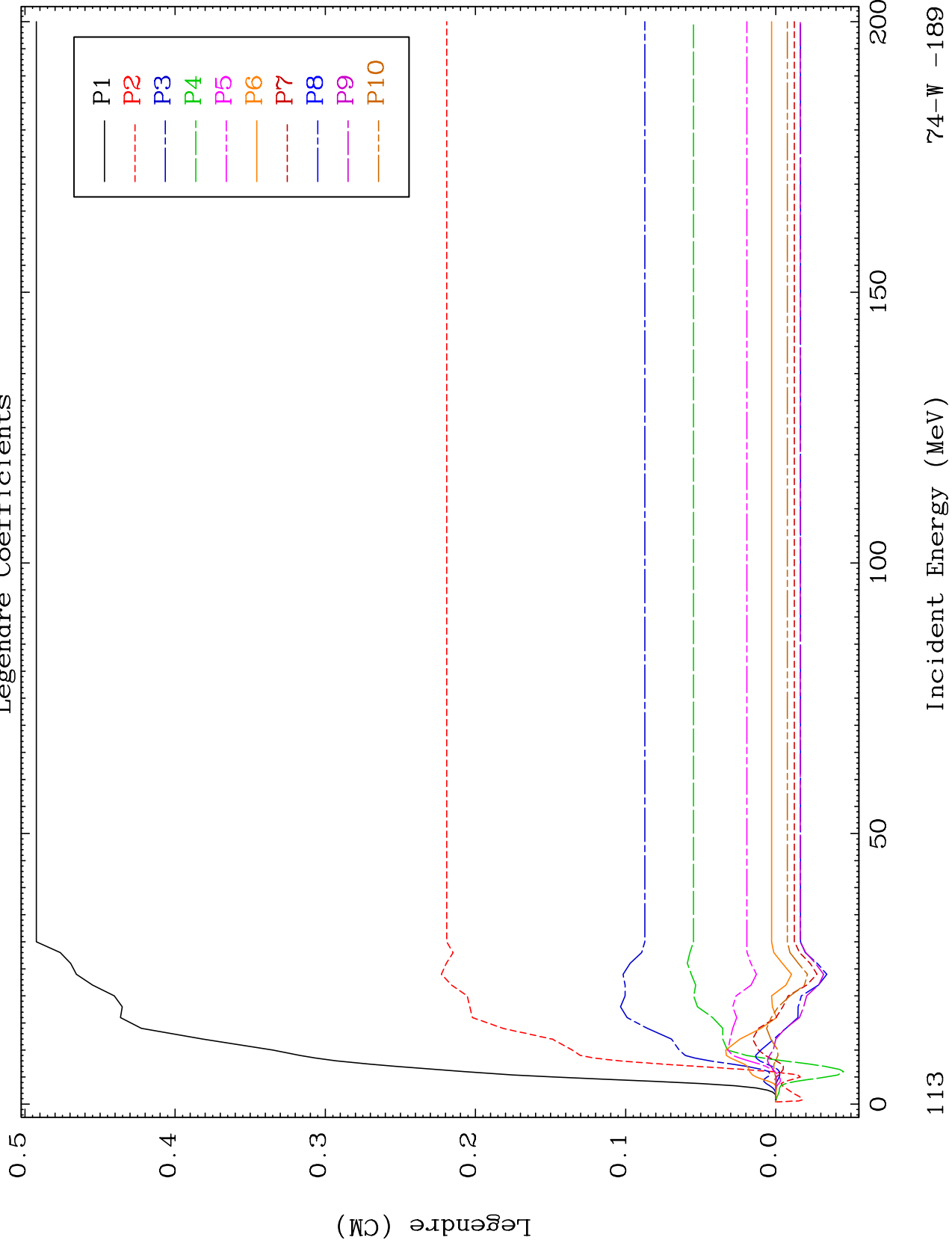




MAT 7452

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

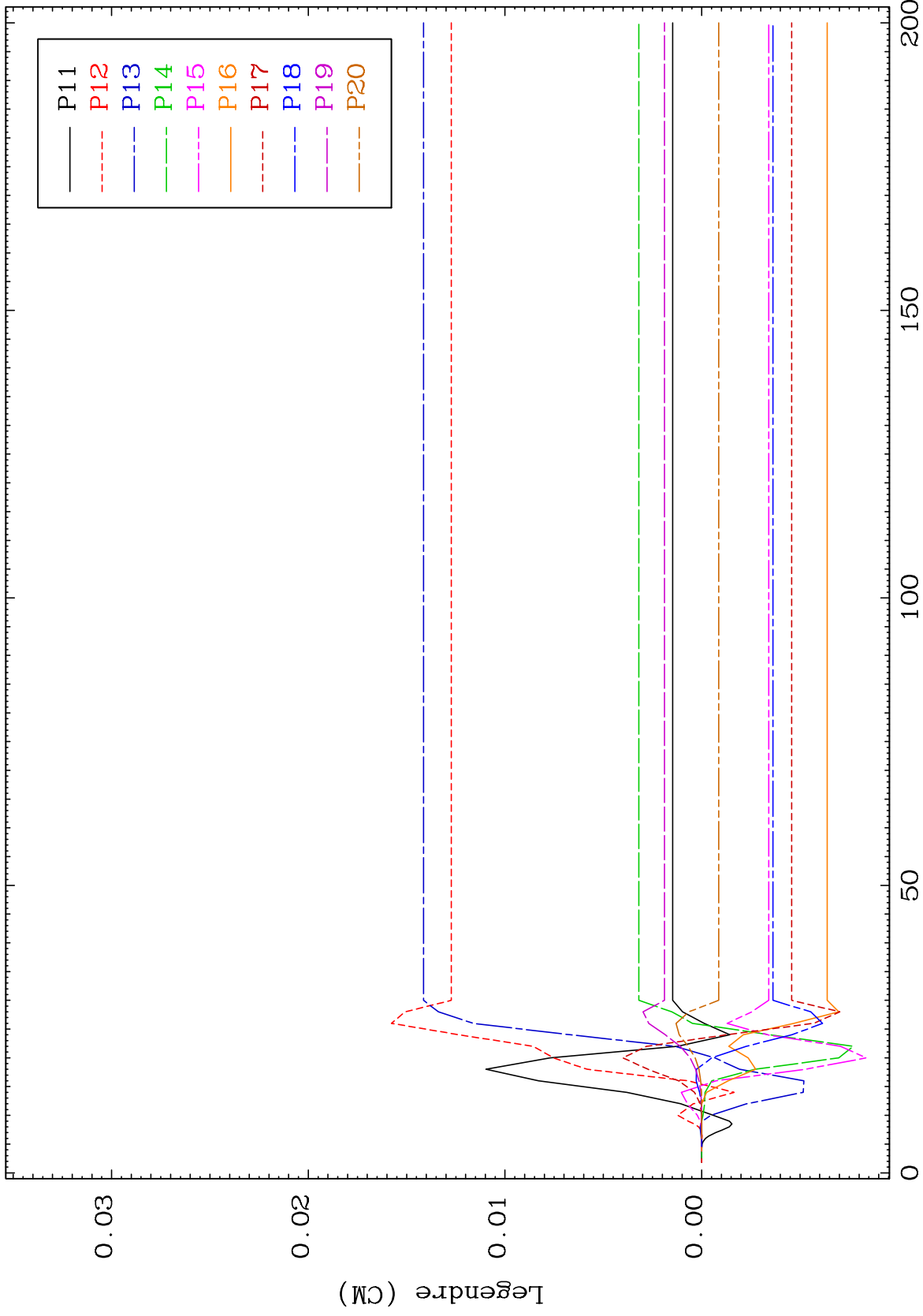
74-W -189



MAT 7452

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

74-W -189



114

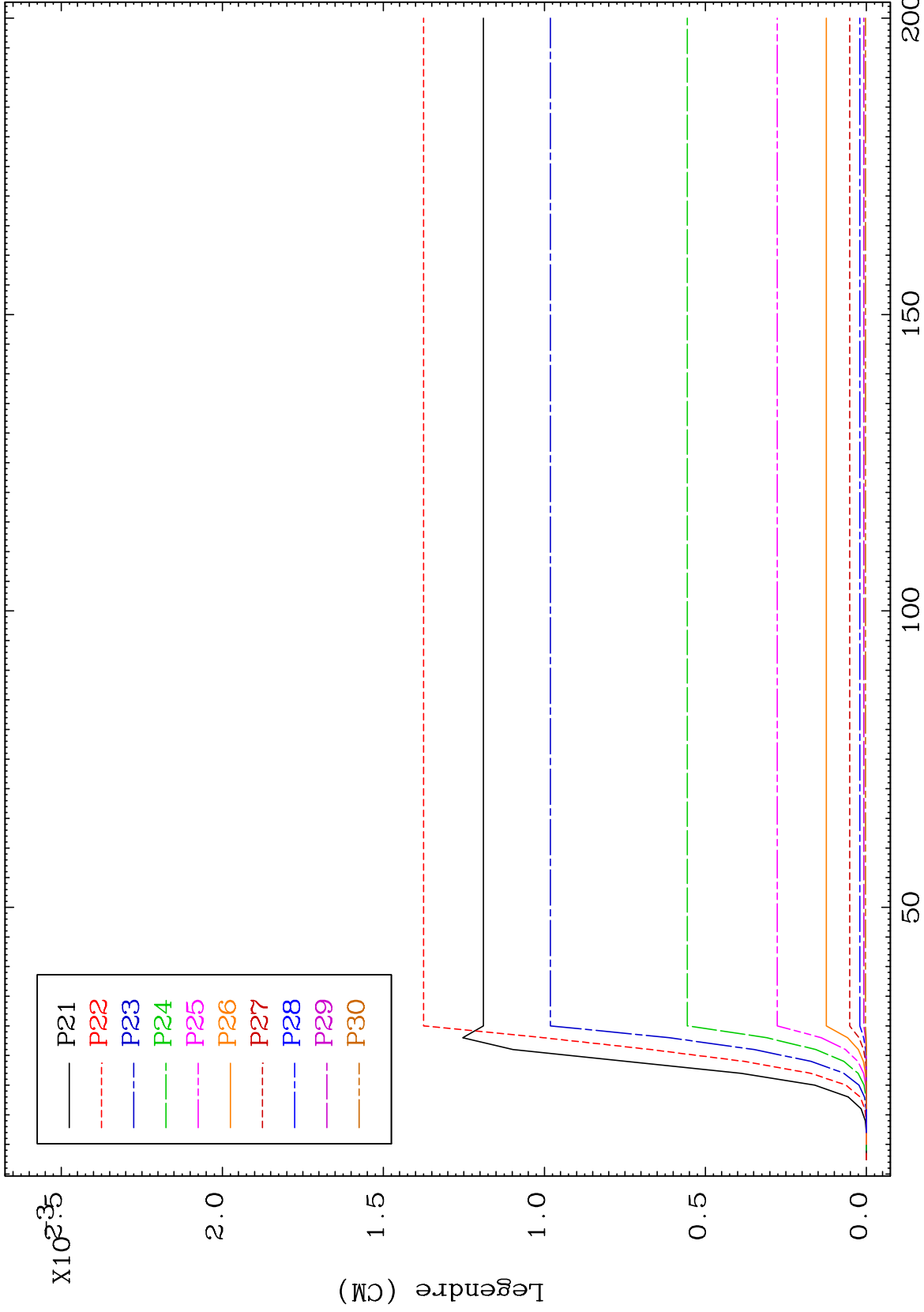
Incident Energy (MeV)

74-W -189

MAT 7452

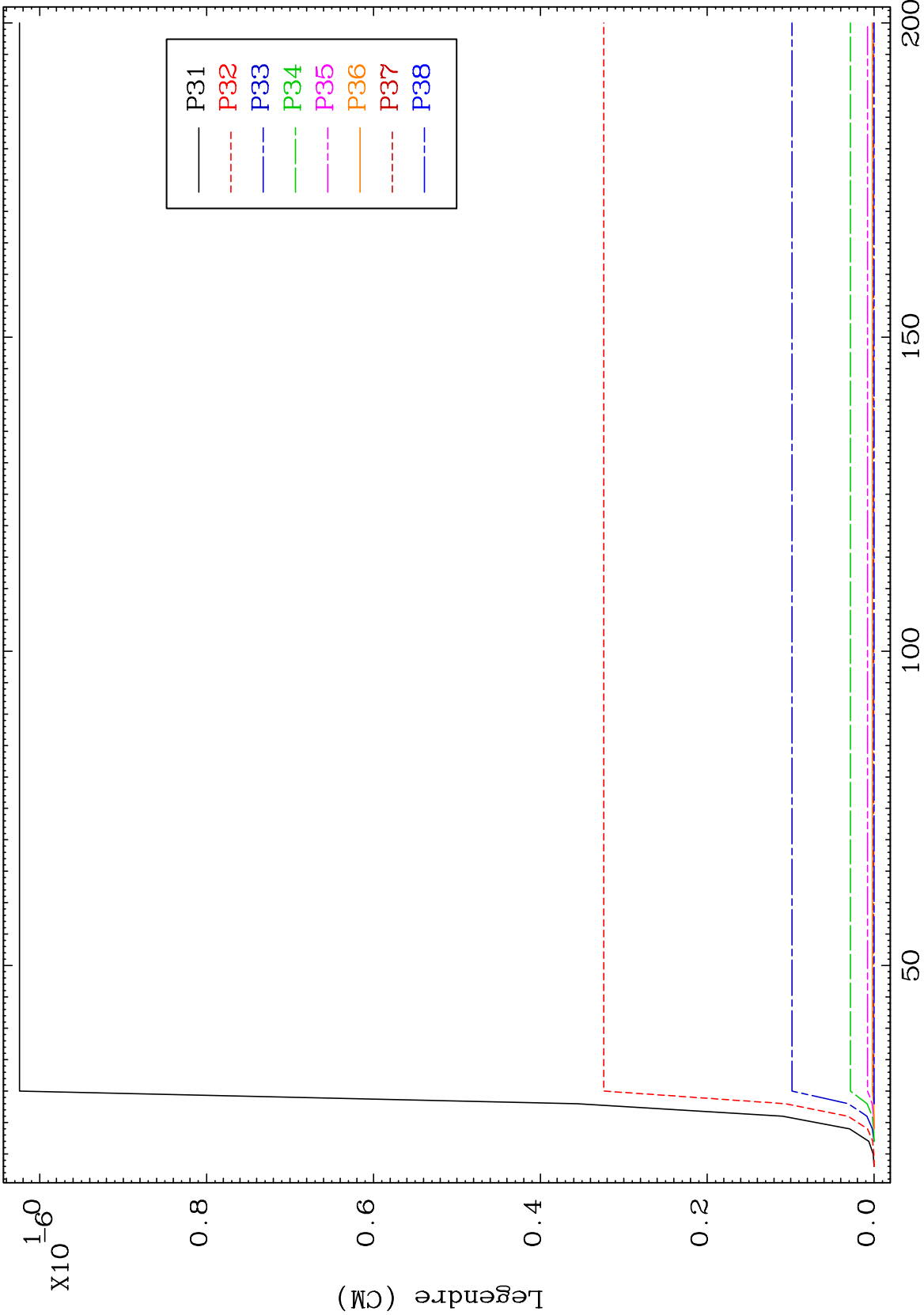
MT= 74 (n,n') Level  
Legendre Coefficients

74-W -189



115

74-W -189

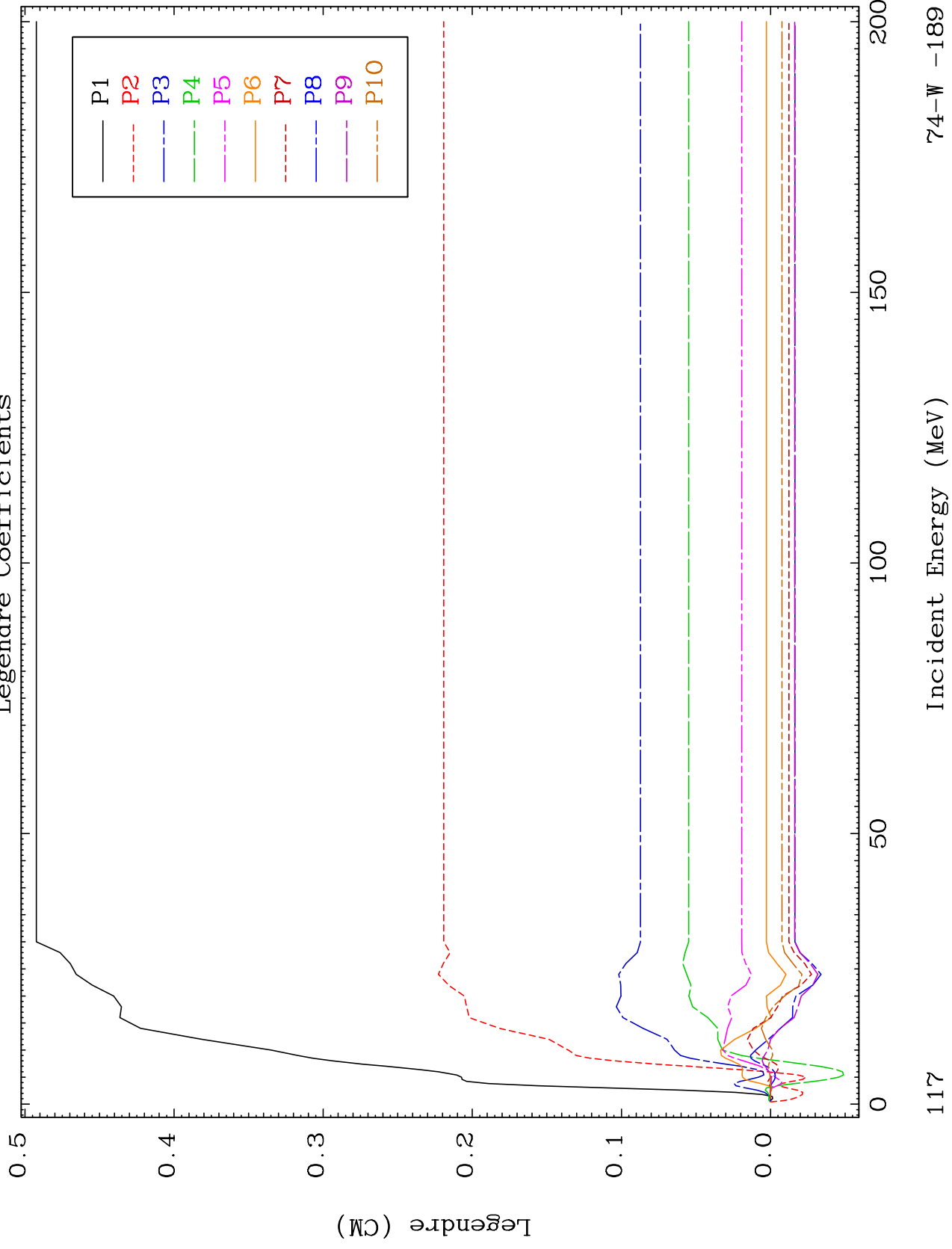


MAT 7452

MT= 75 (n,n') Level

74-W -189

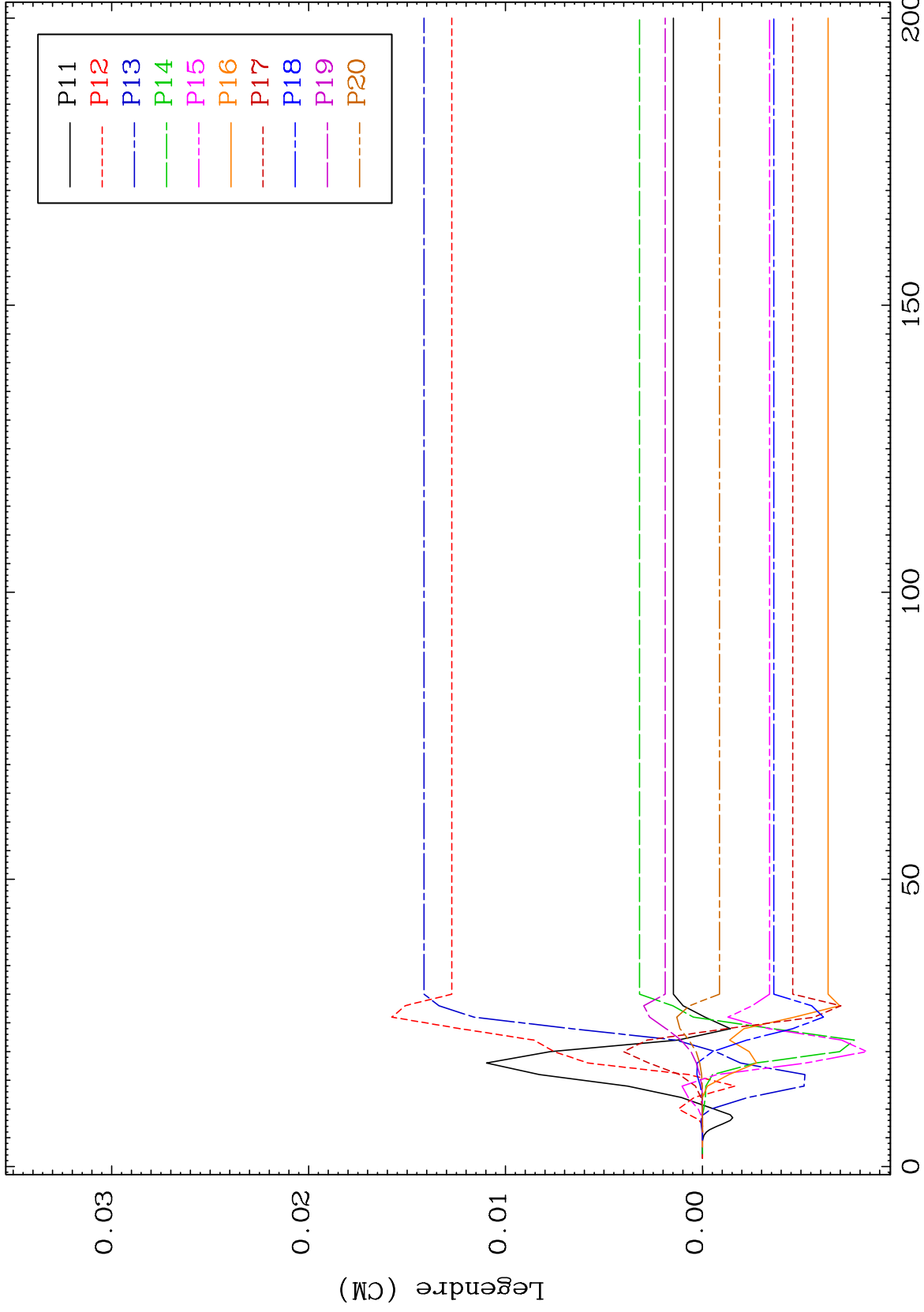
Legendre Coefficients



MAT 7452

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

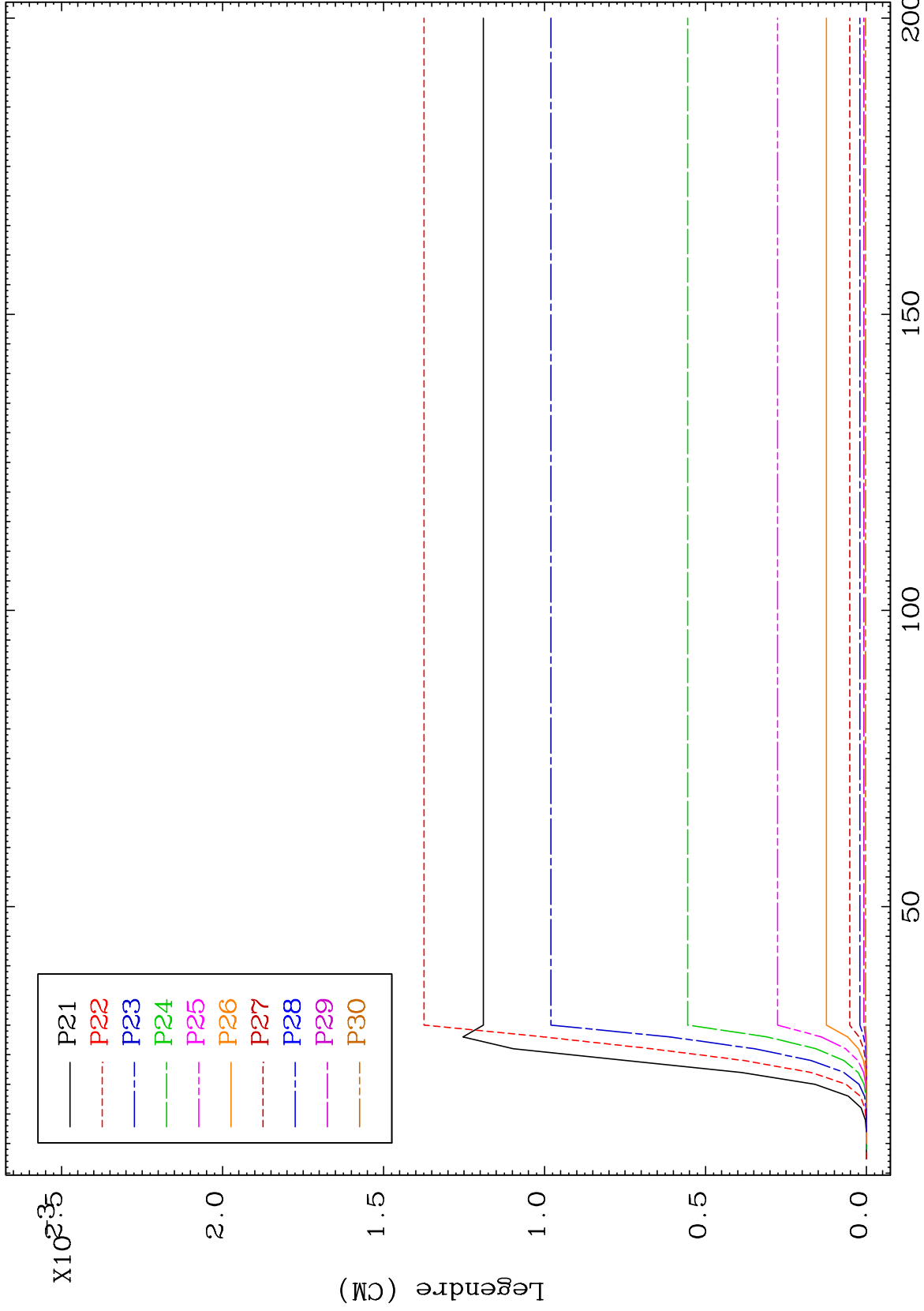
74-W -189



118

Incident Energy (MeV)

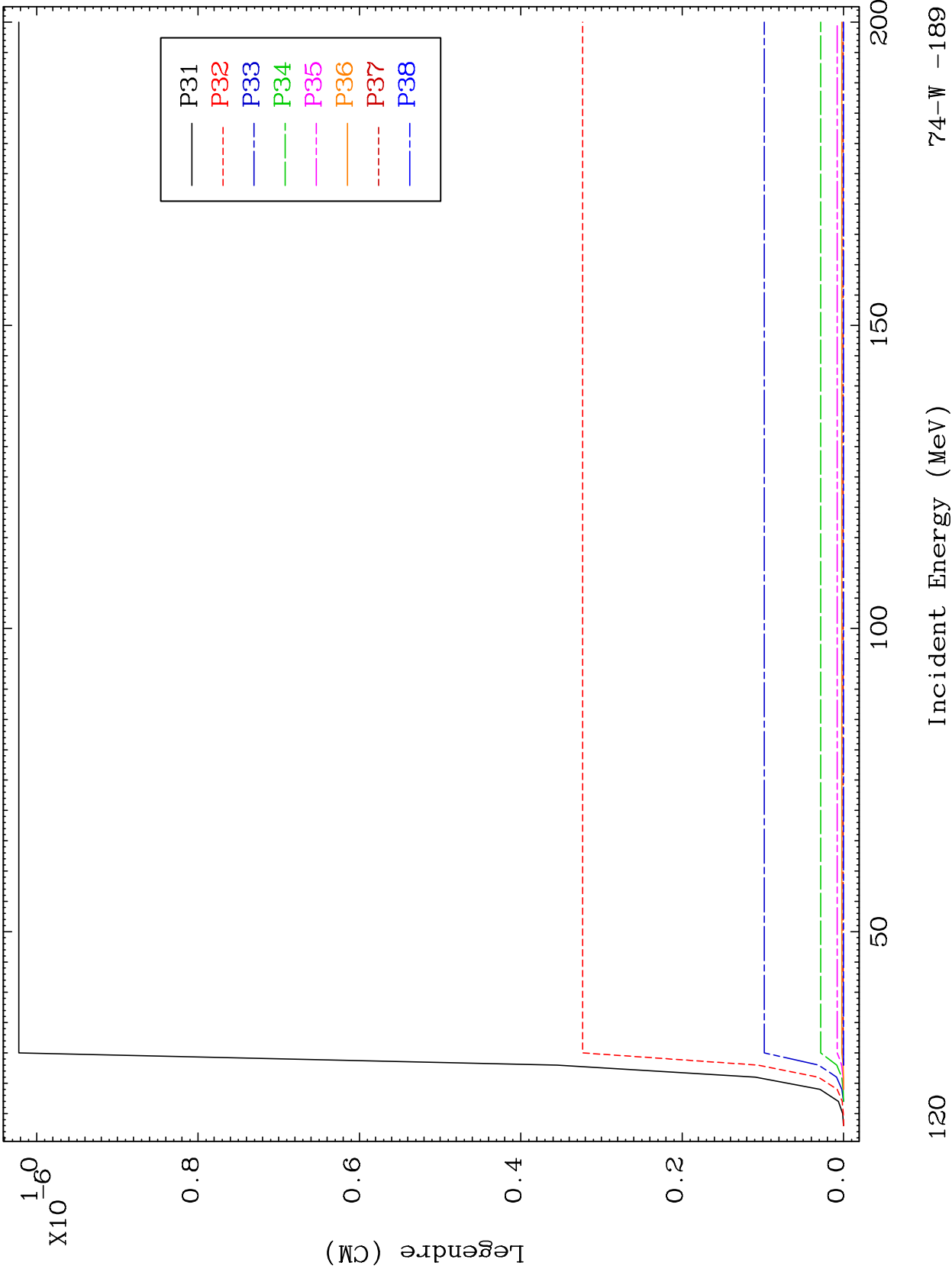
74-W -189



MAT 7452

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

74-W -189



120

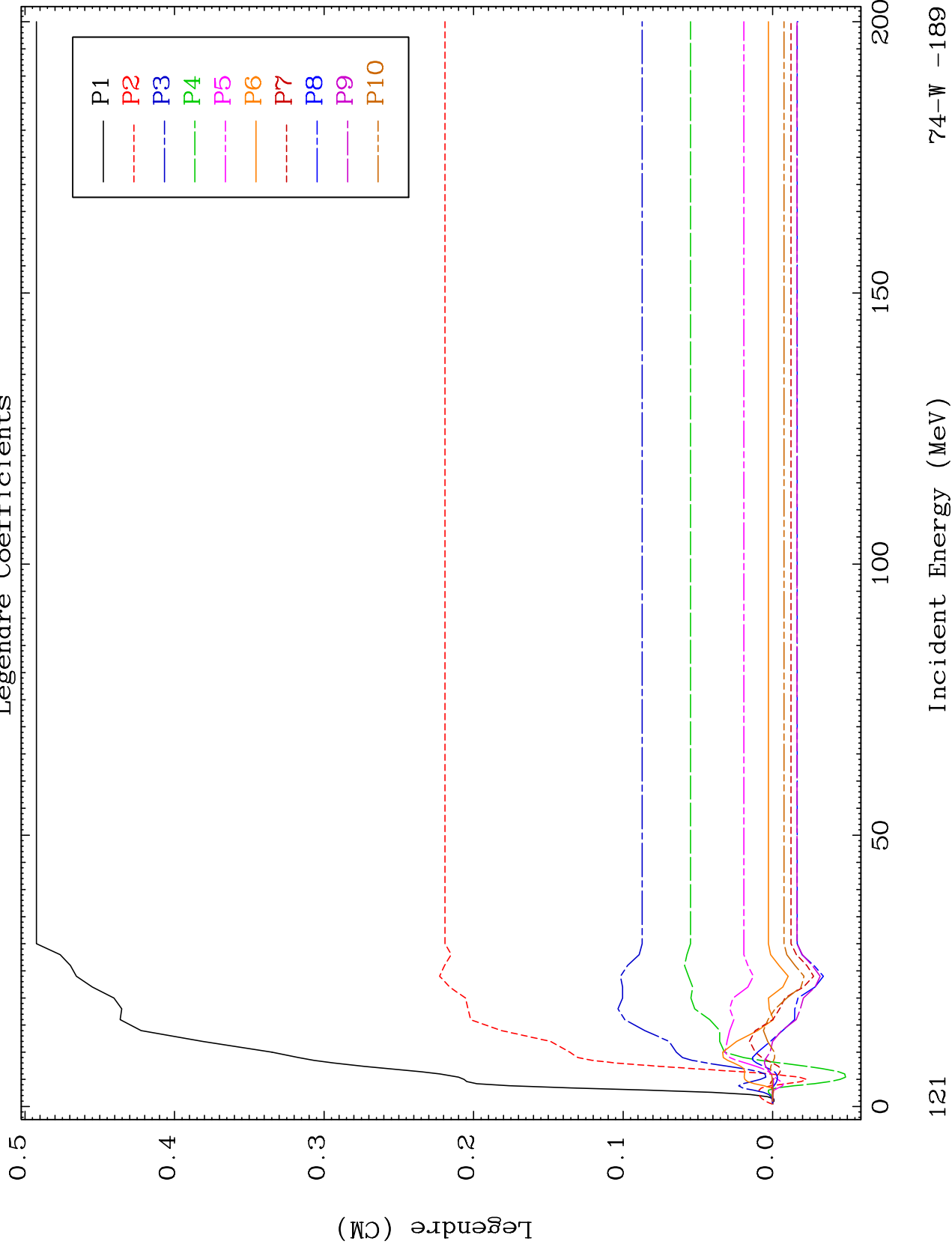
Incident Energy (MeV)

74-W -189

MAT 7452

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

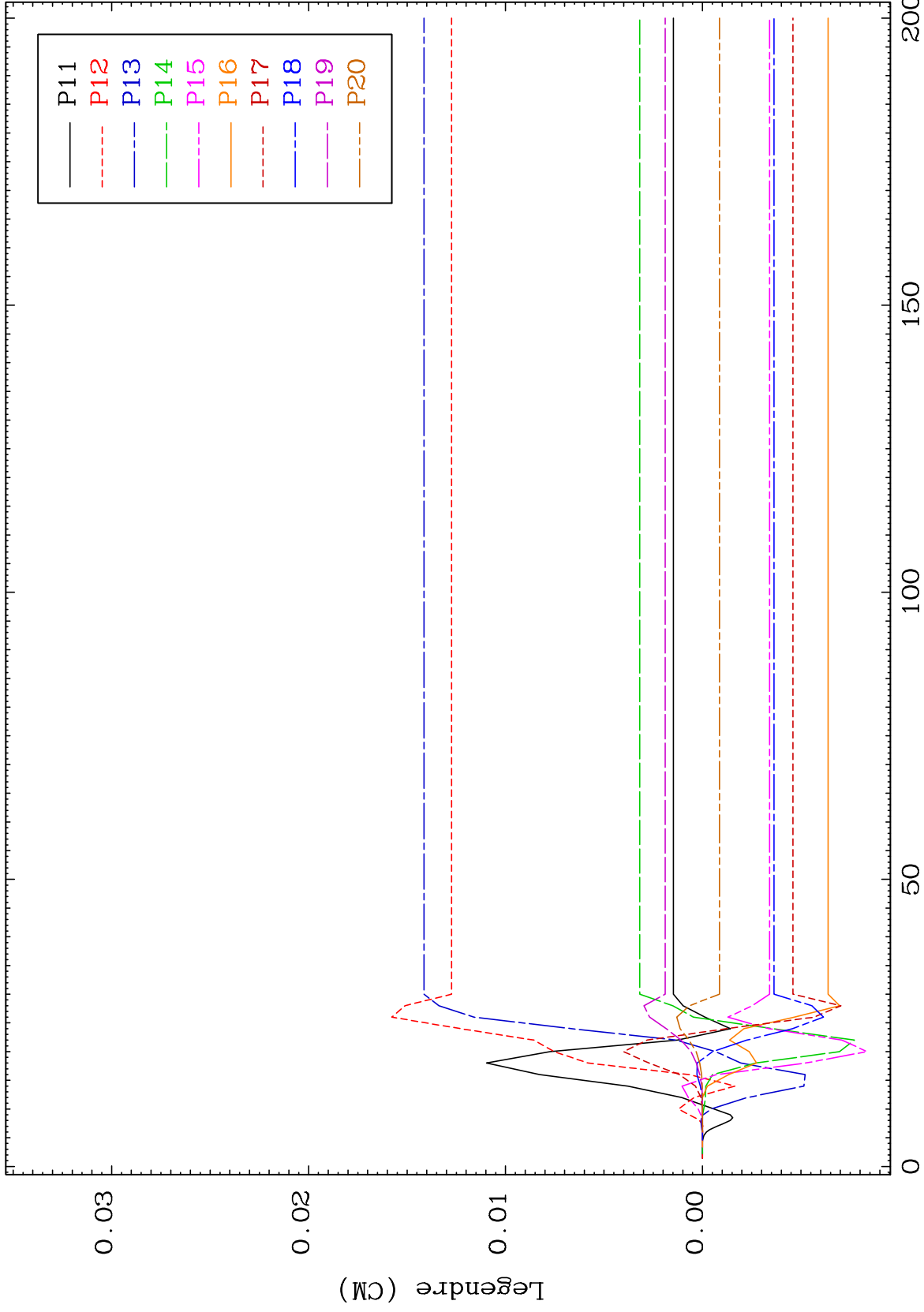
74-W -189



MAT 7452

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

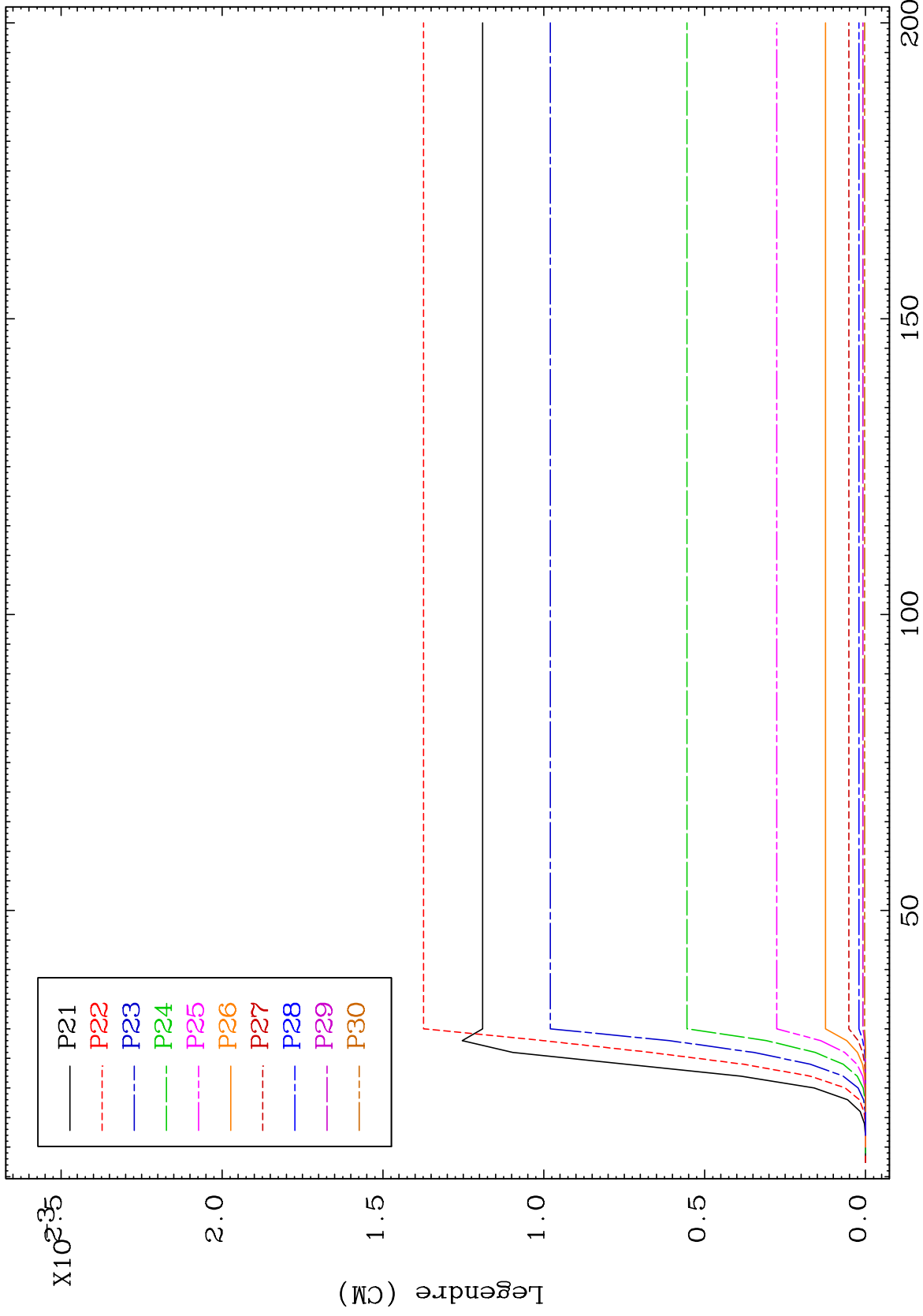
74-W -189



122

Incident Energy (MeV)

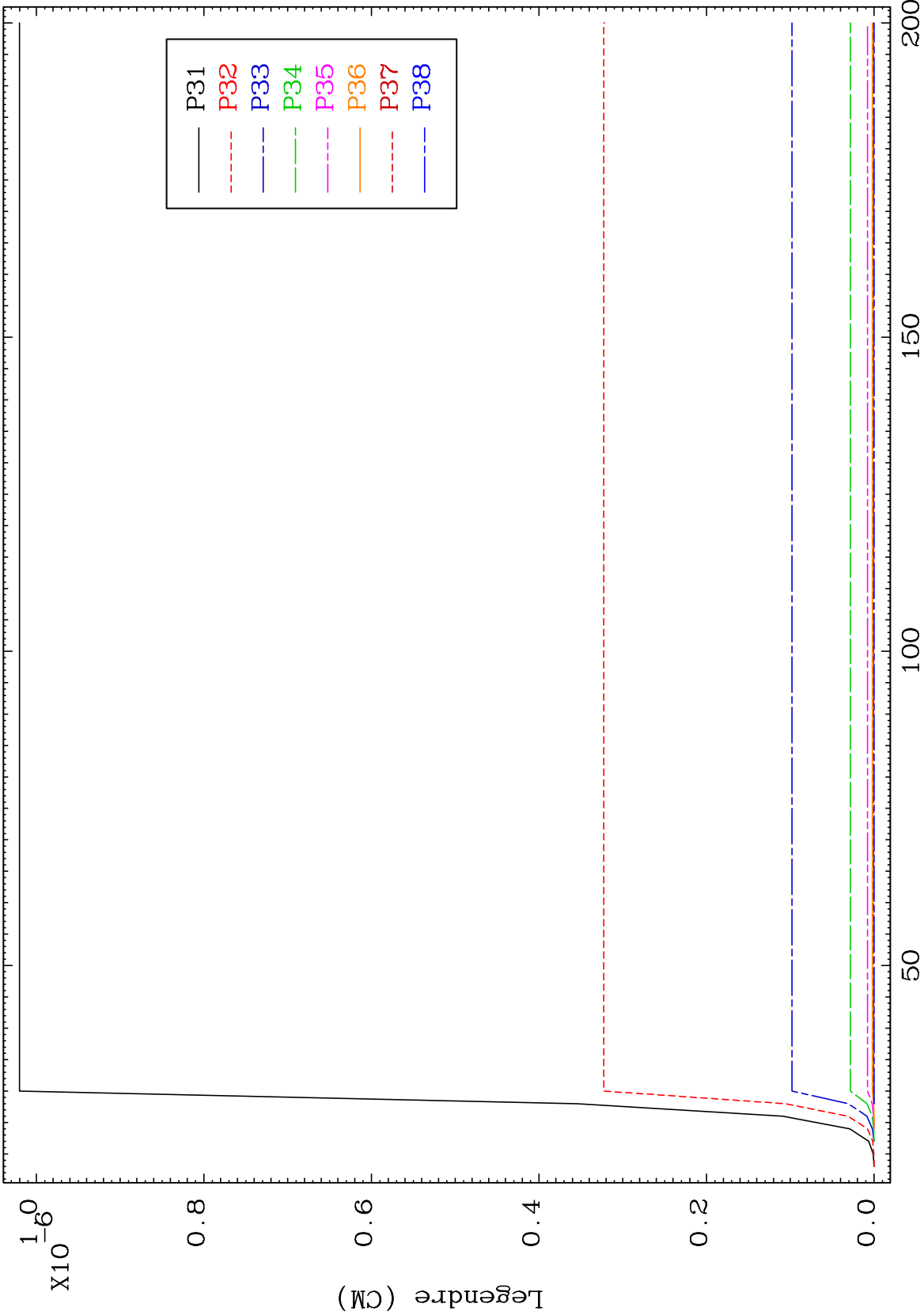
74-W -189



MAT 7452

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

74-W -189



124

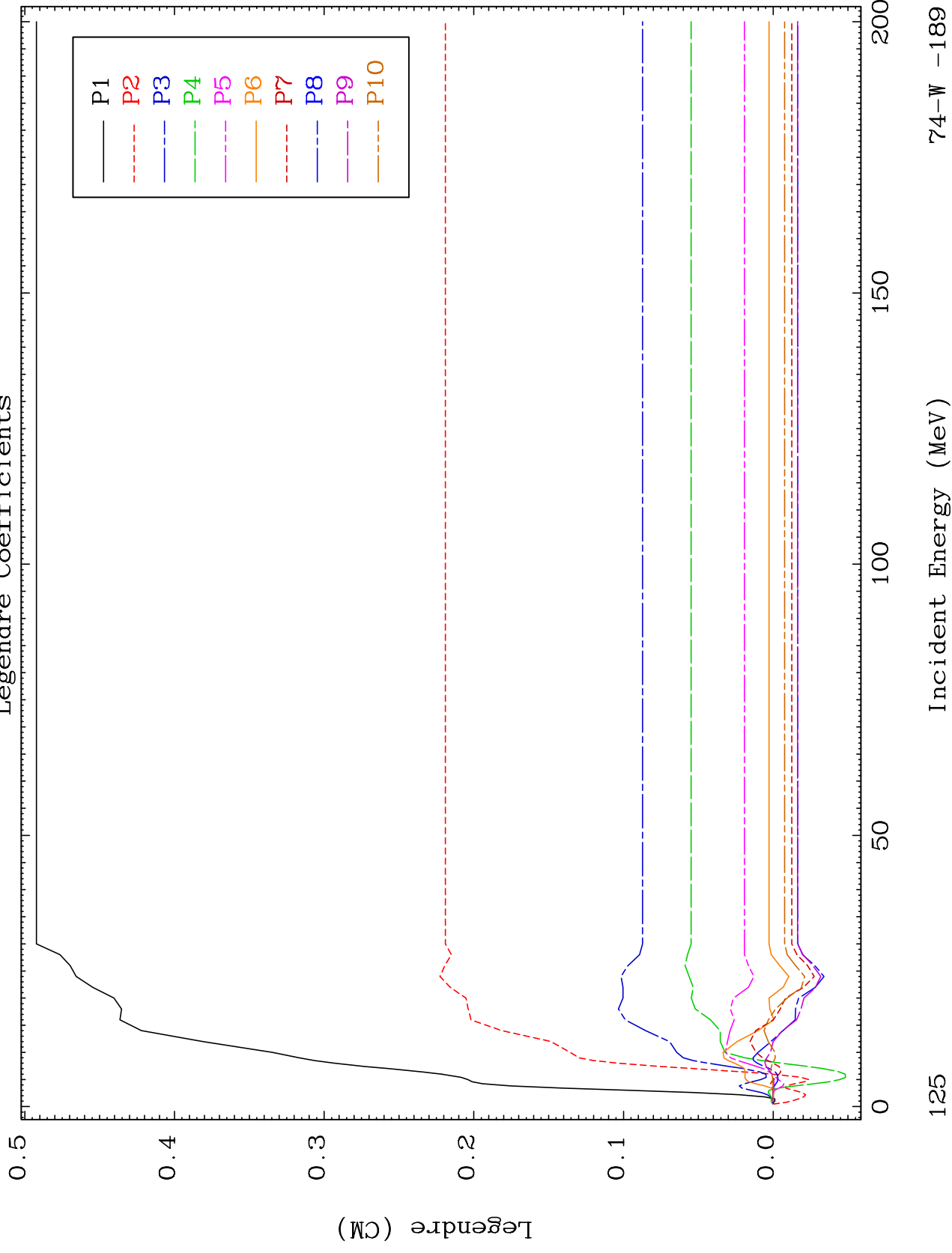
Incident Energy (MeV)

74-W -189

MAT 7452

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

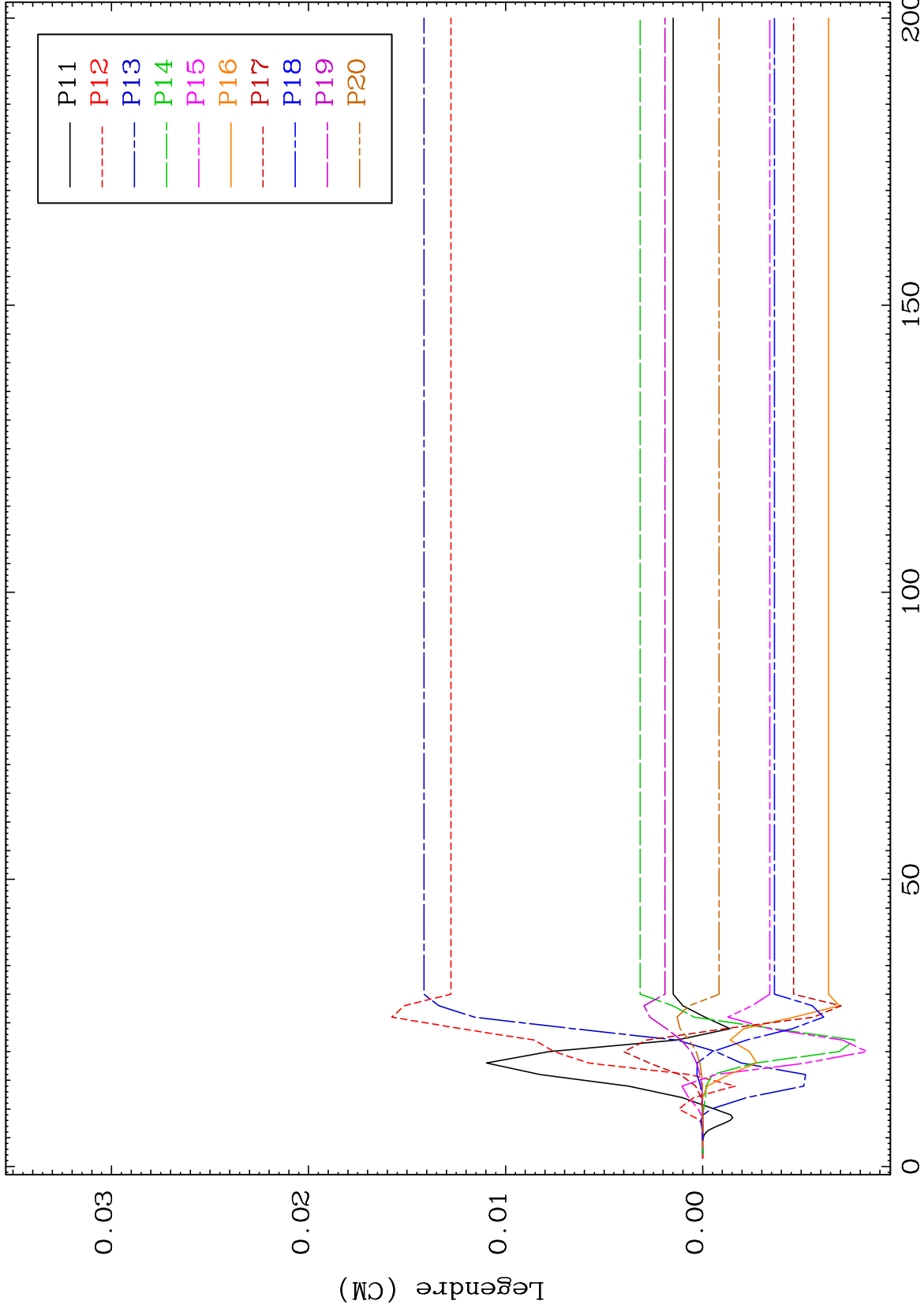
74-W -189



MAT 7452

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

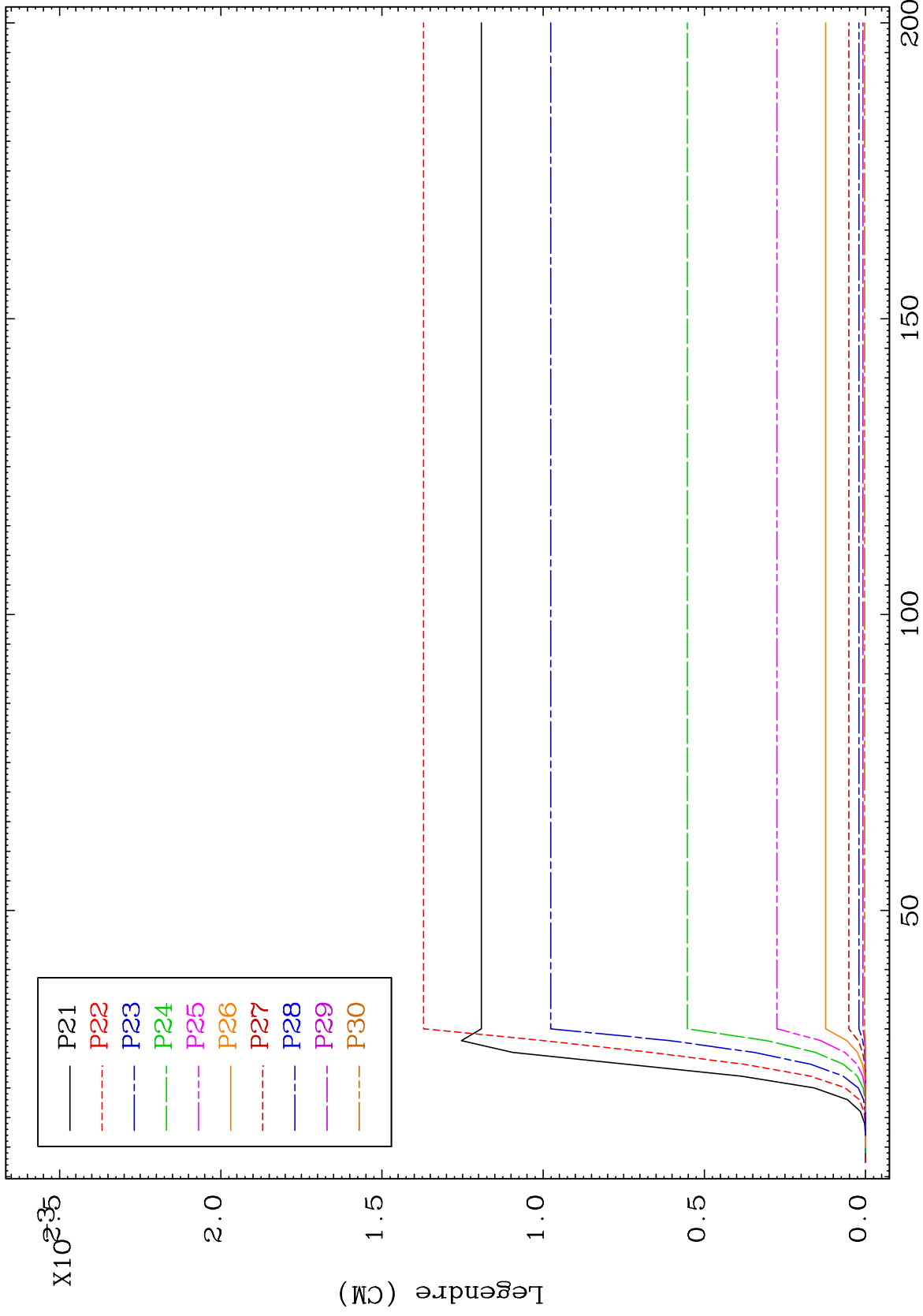
74-W -189

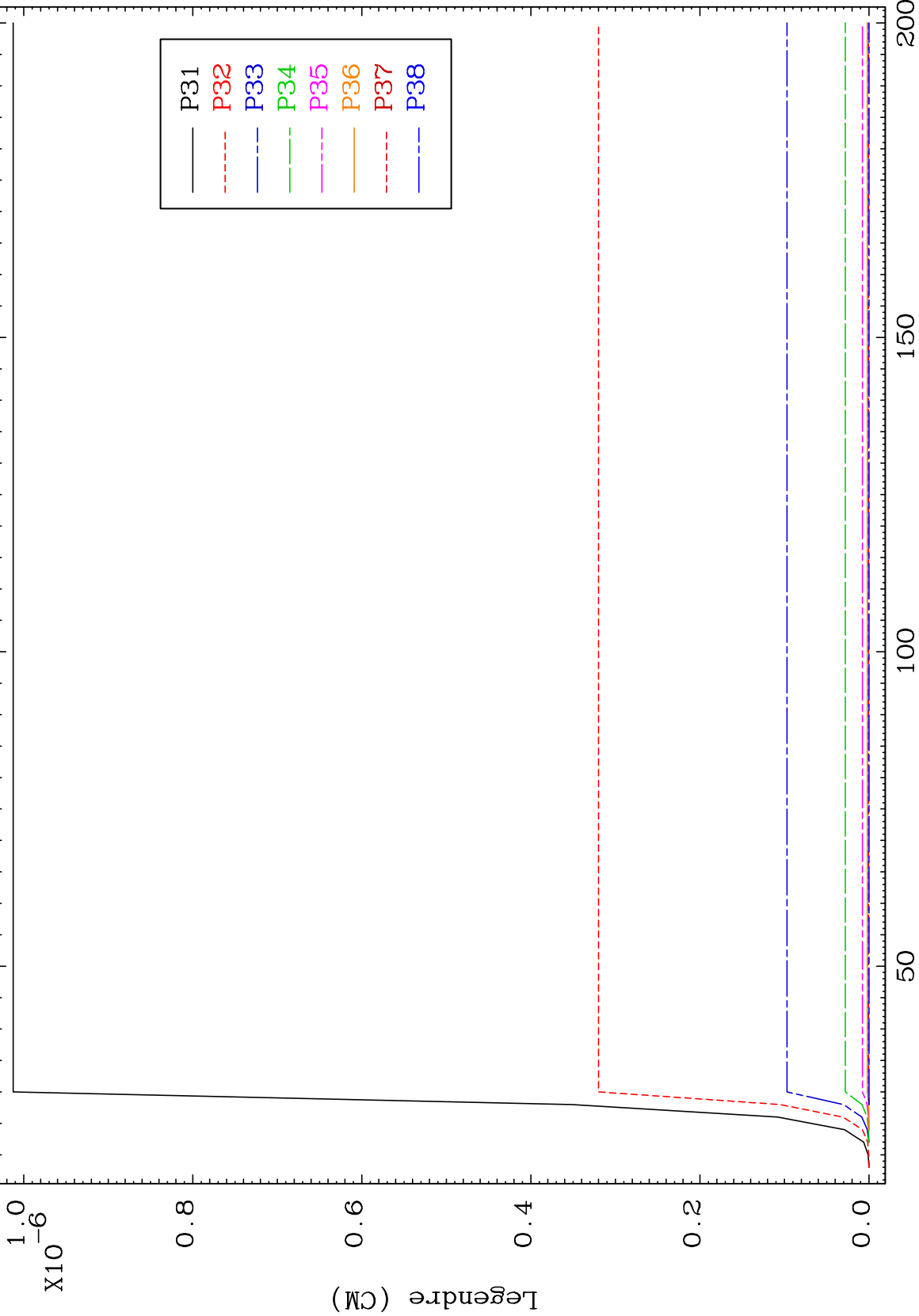


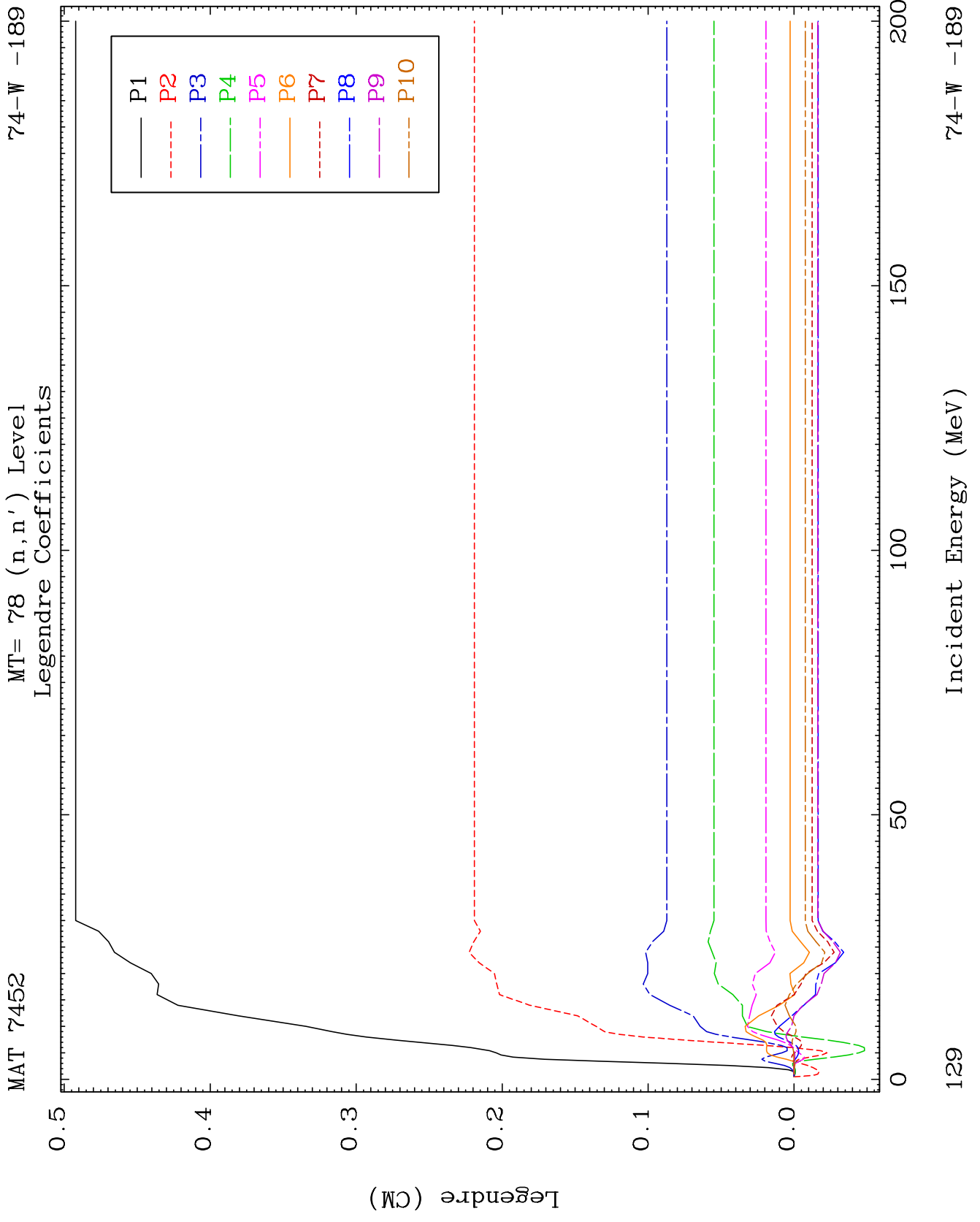
126

Incident Energy (MeV)

74-W -189



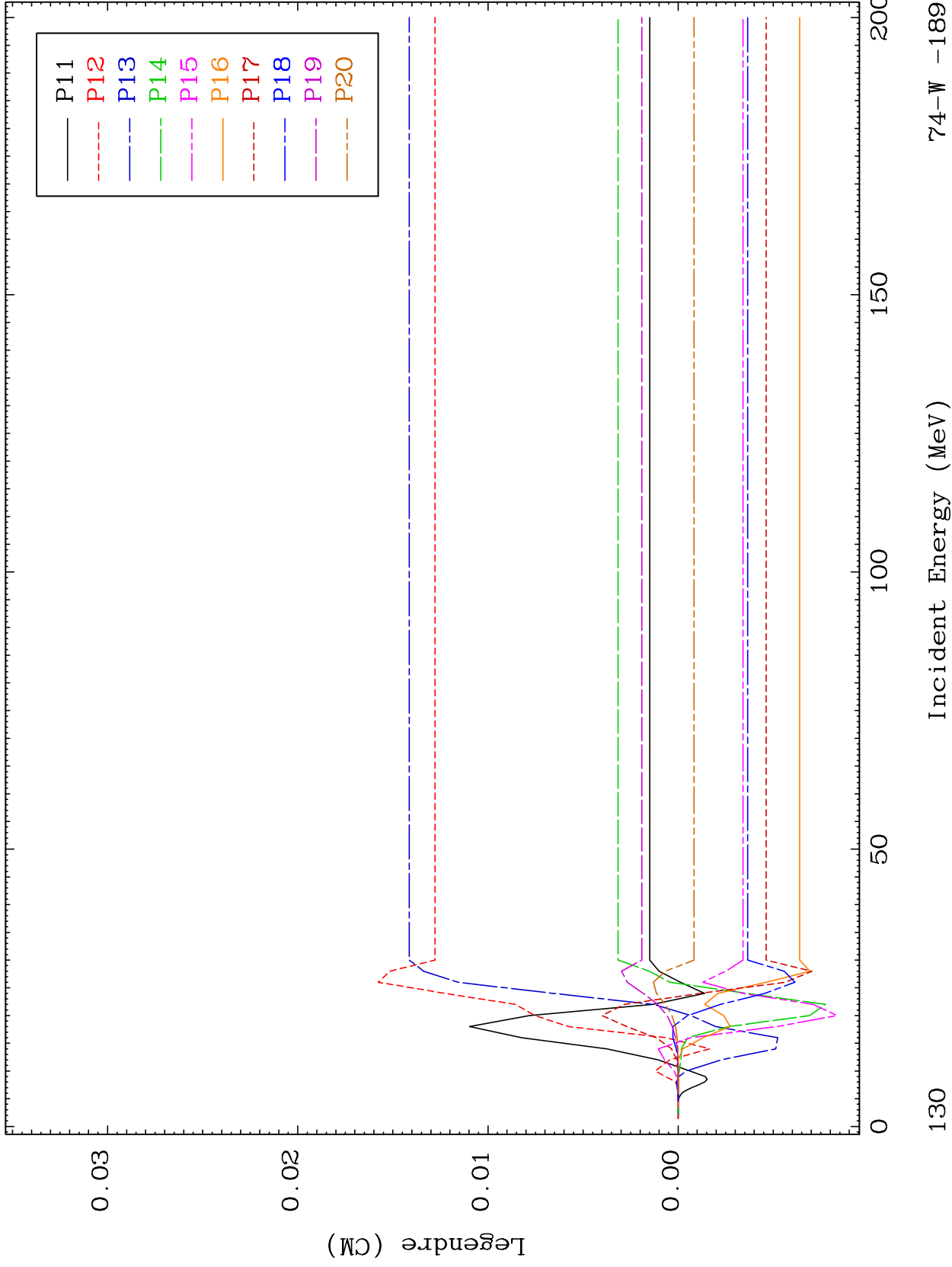




MAT 7452

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

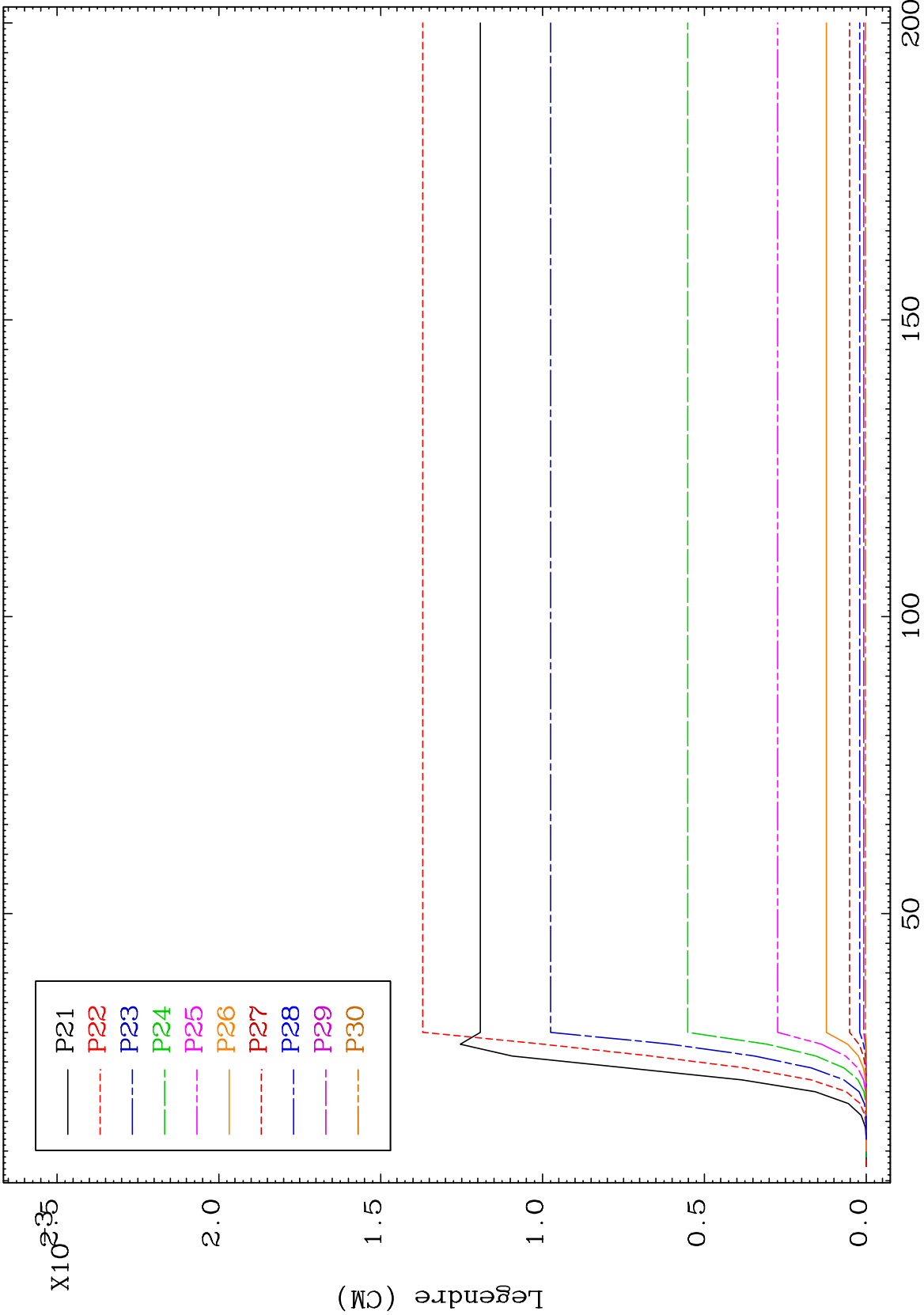
74-W -189

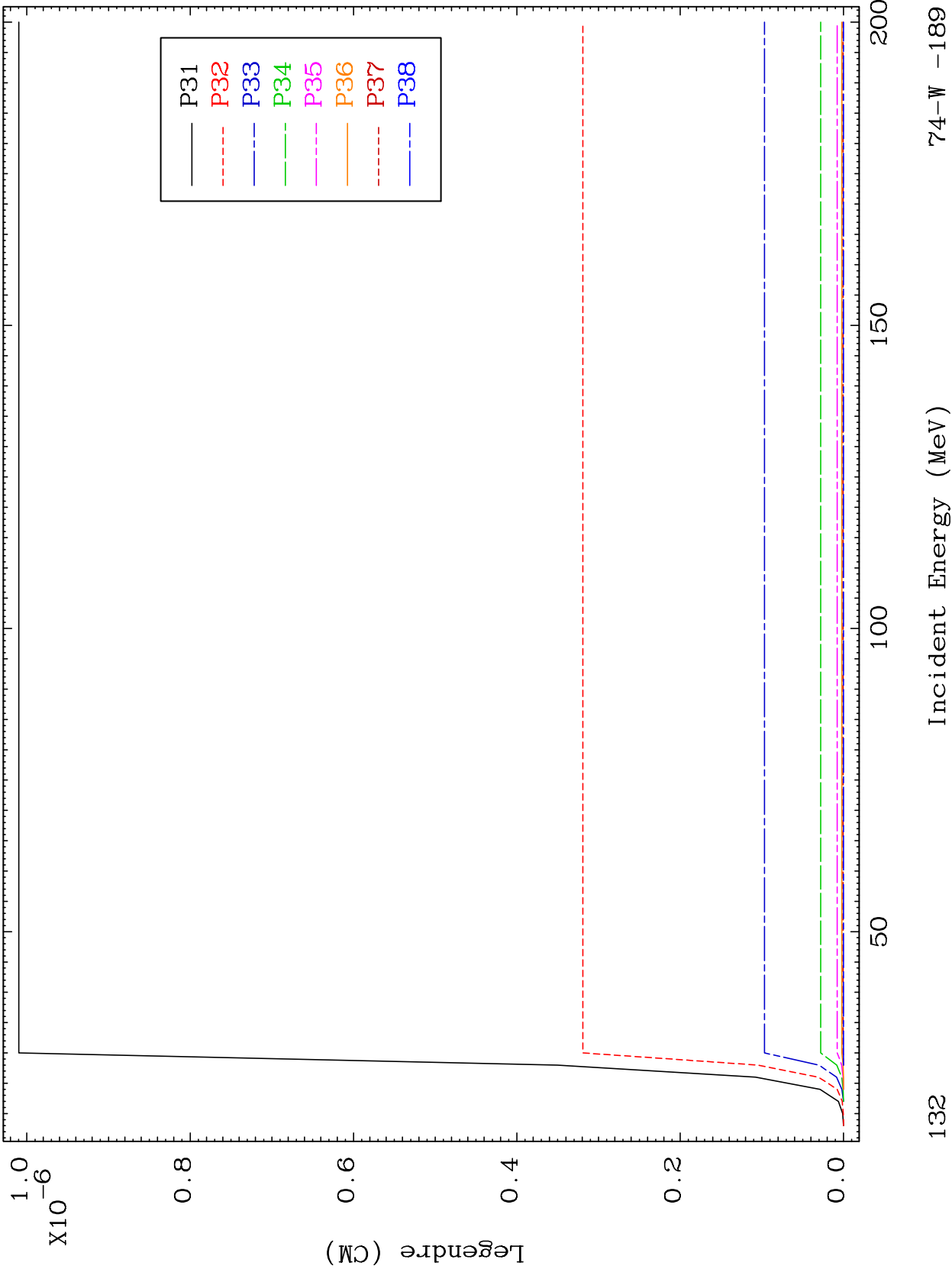


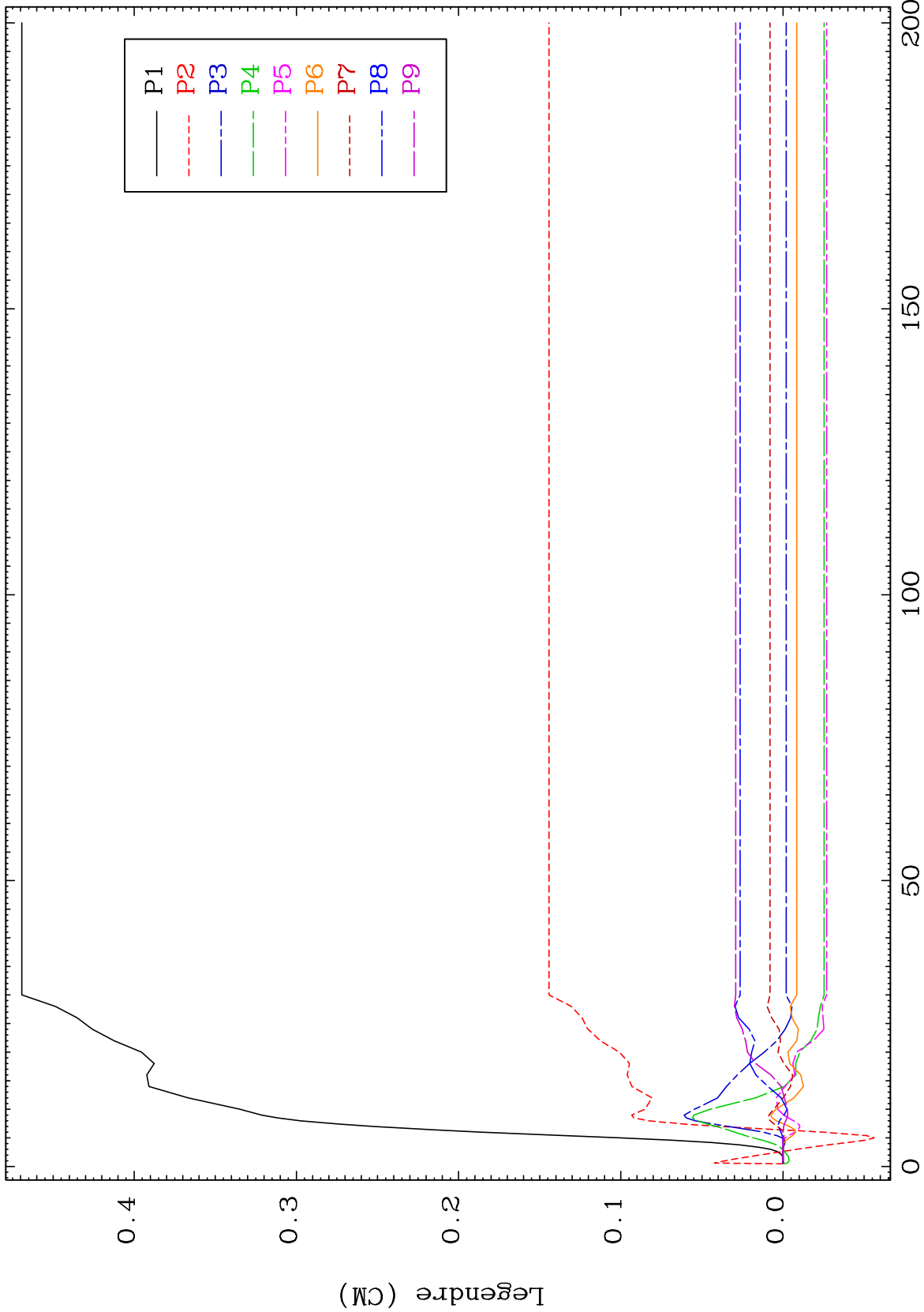
74-W -189

Incident Energy (MeV)

130



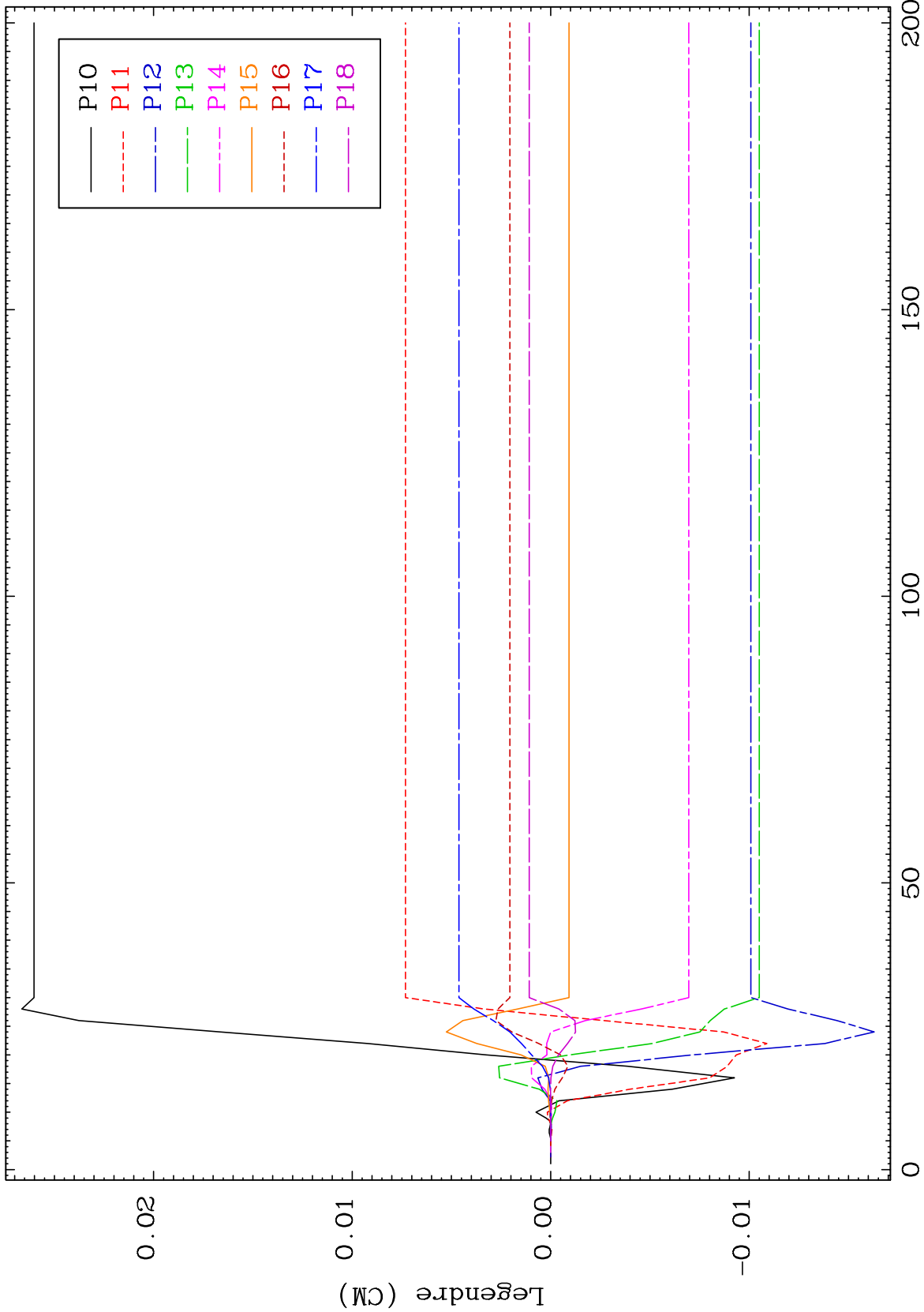




MAT 7452

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

74-W -189



134

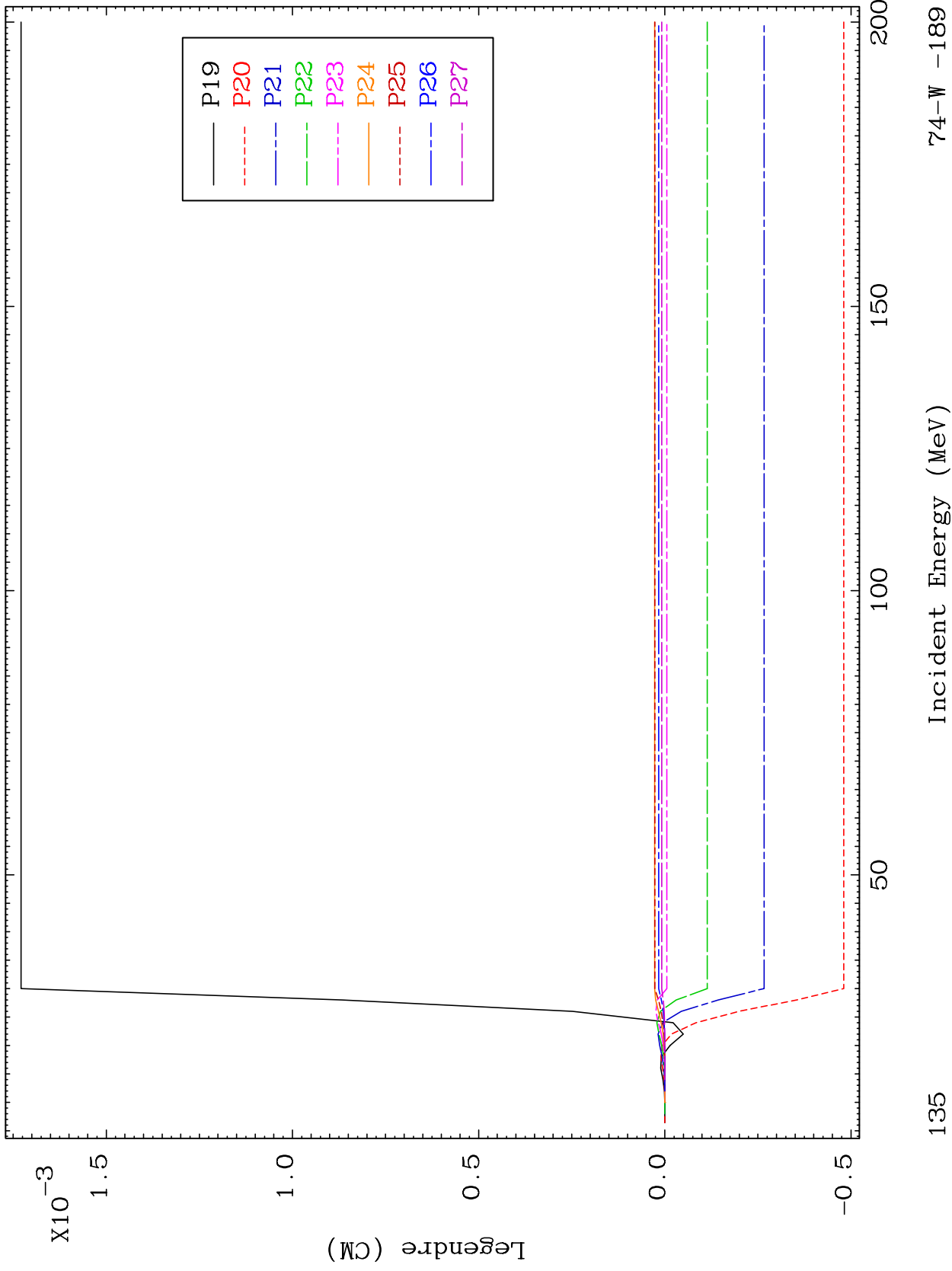
Incident Energy (MeV)

74-W -189

MAT 7452

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

74-W -189



135

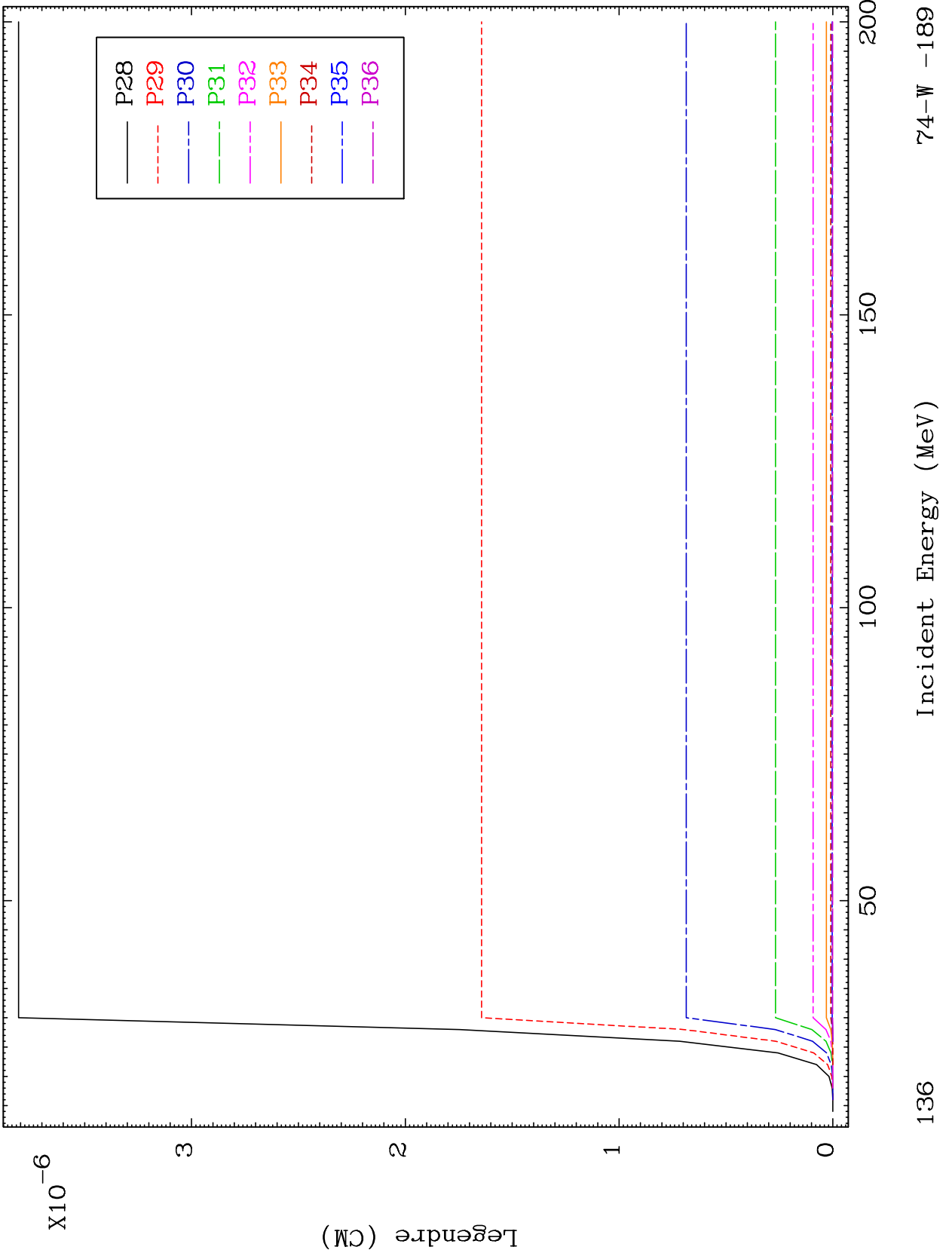
Incident Energy (MeV)

74-W -189

MAT 7452

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

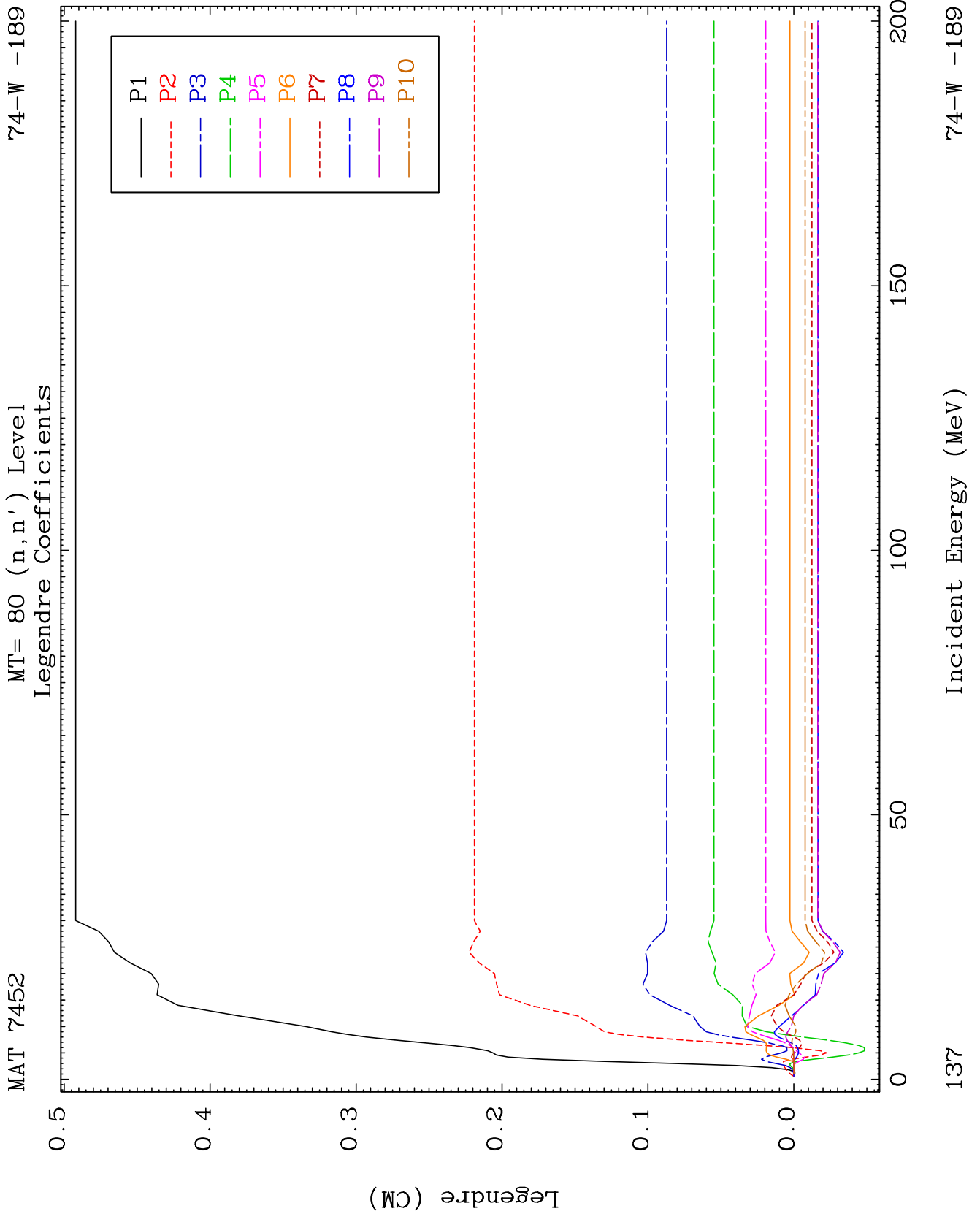
74-W -189



136

Incident Energy (MeV)

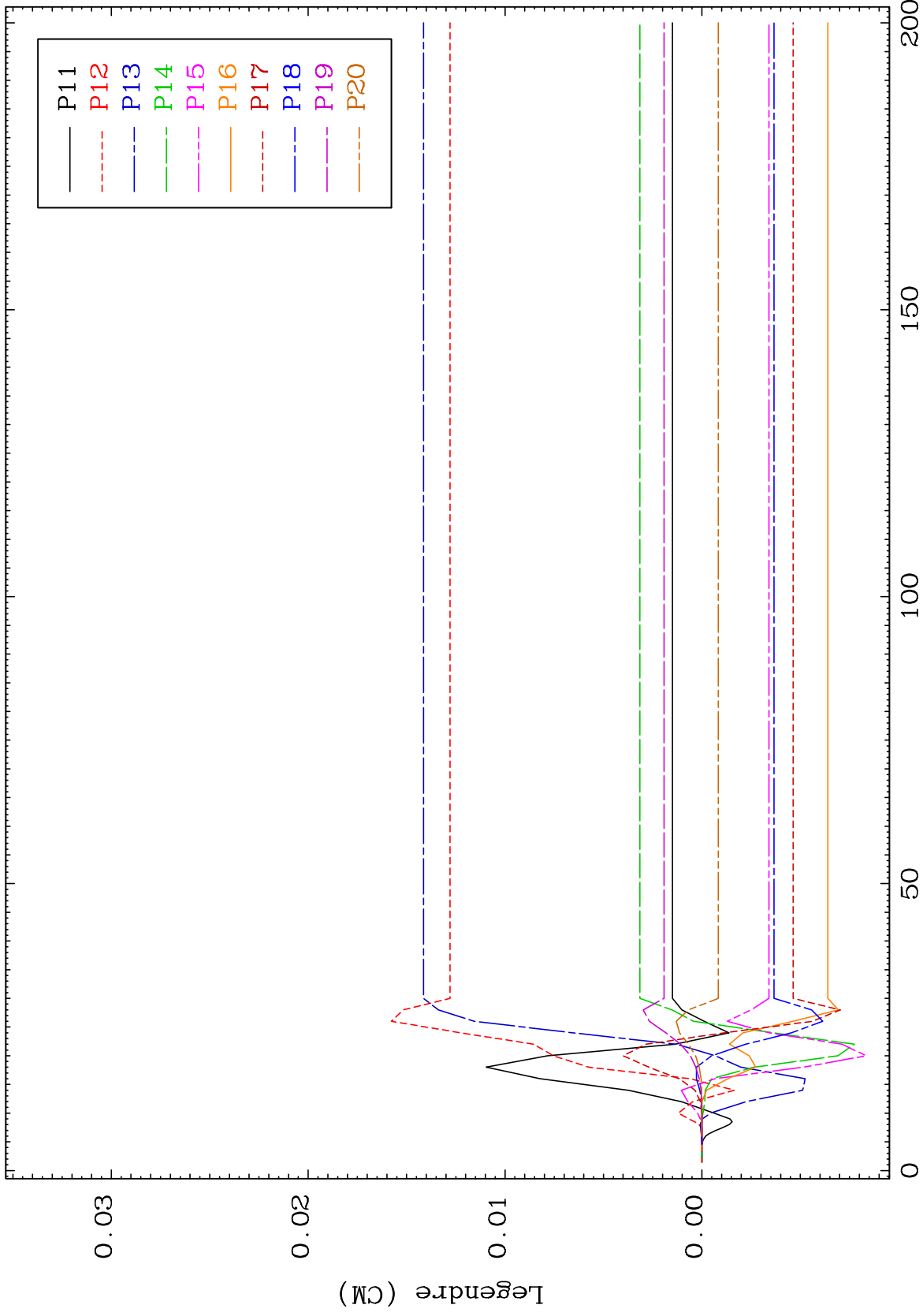
74-W -189



MAT 7452

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

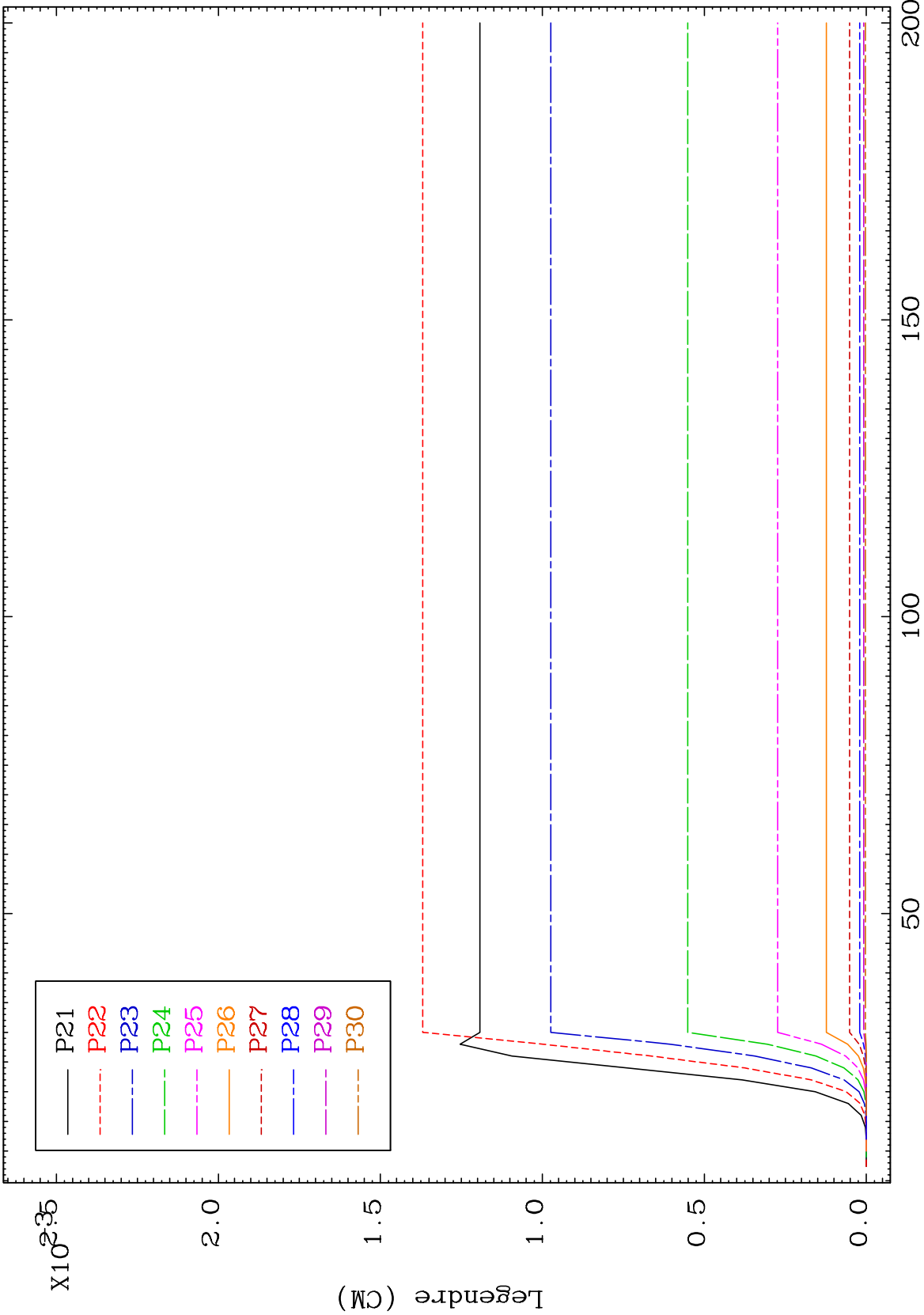
74-W -189



138

Incident Energy (MeV)

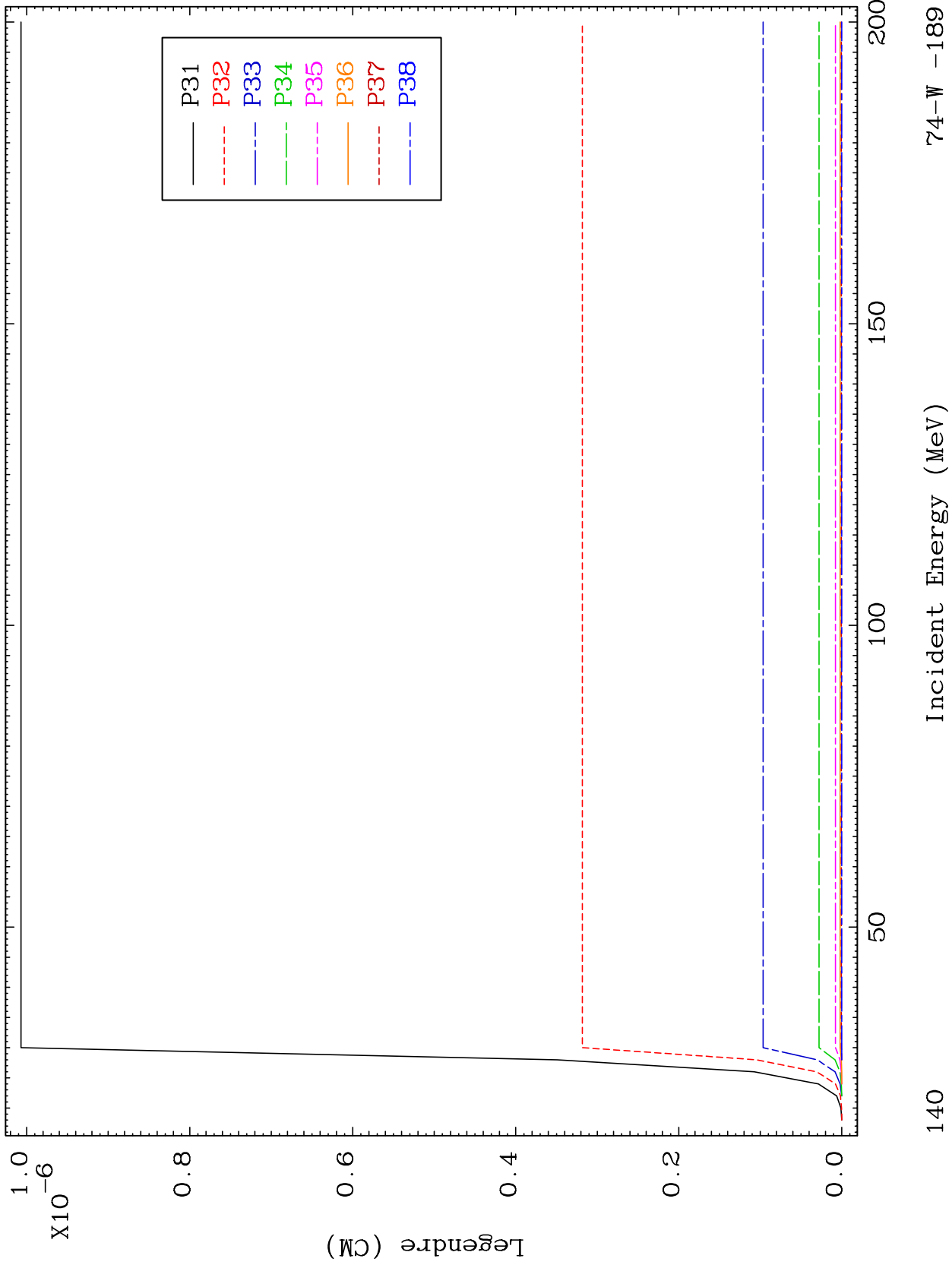
74-W -189



MAT 7452

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

74-W -189



140

Incident Energy (MeV)

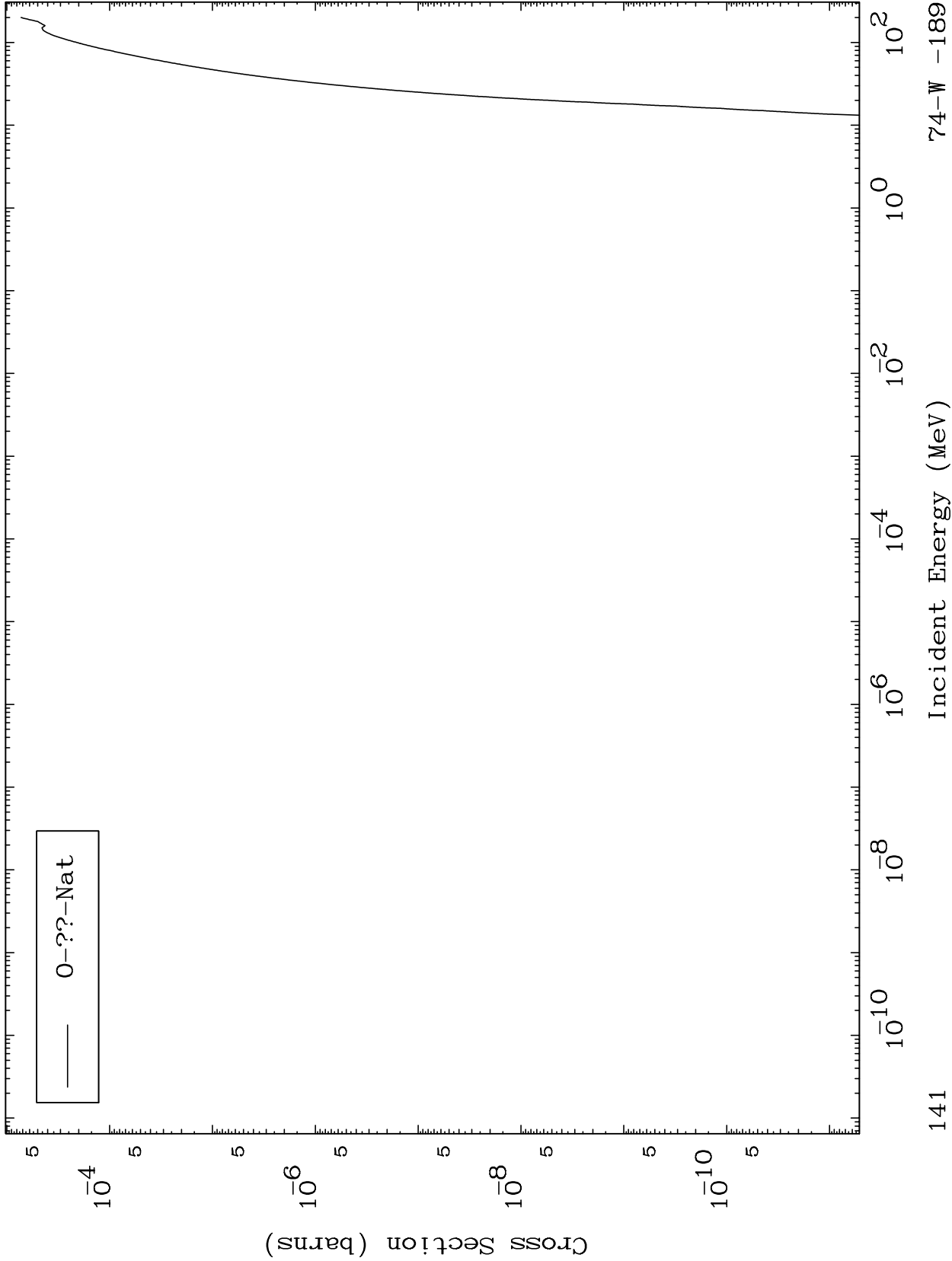
74-W -189

MAT 7452

Fission

74-W -189

Radionuclide Production Cross Section



141

Incident Energy (MeV)

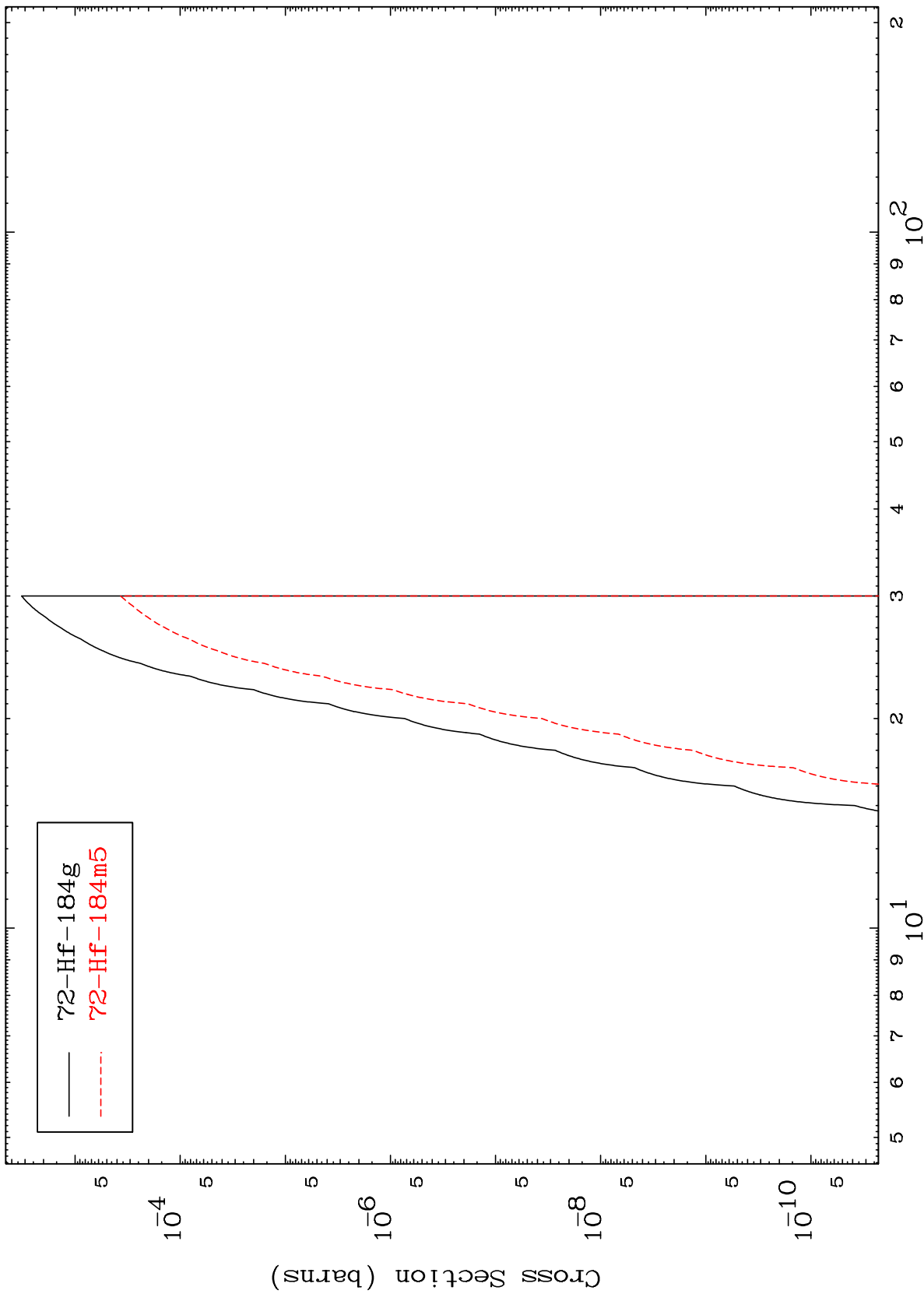
74-W -189

MAT 7452

74-W -189

(n,2n)  $\alpha$

Radionuclide Production Cross Section



— 72-Hf-184g  
- - - 72-Hf-184m5

142

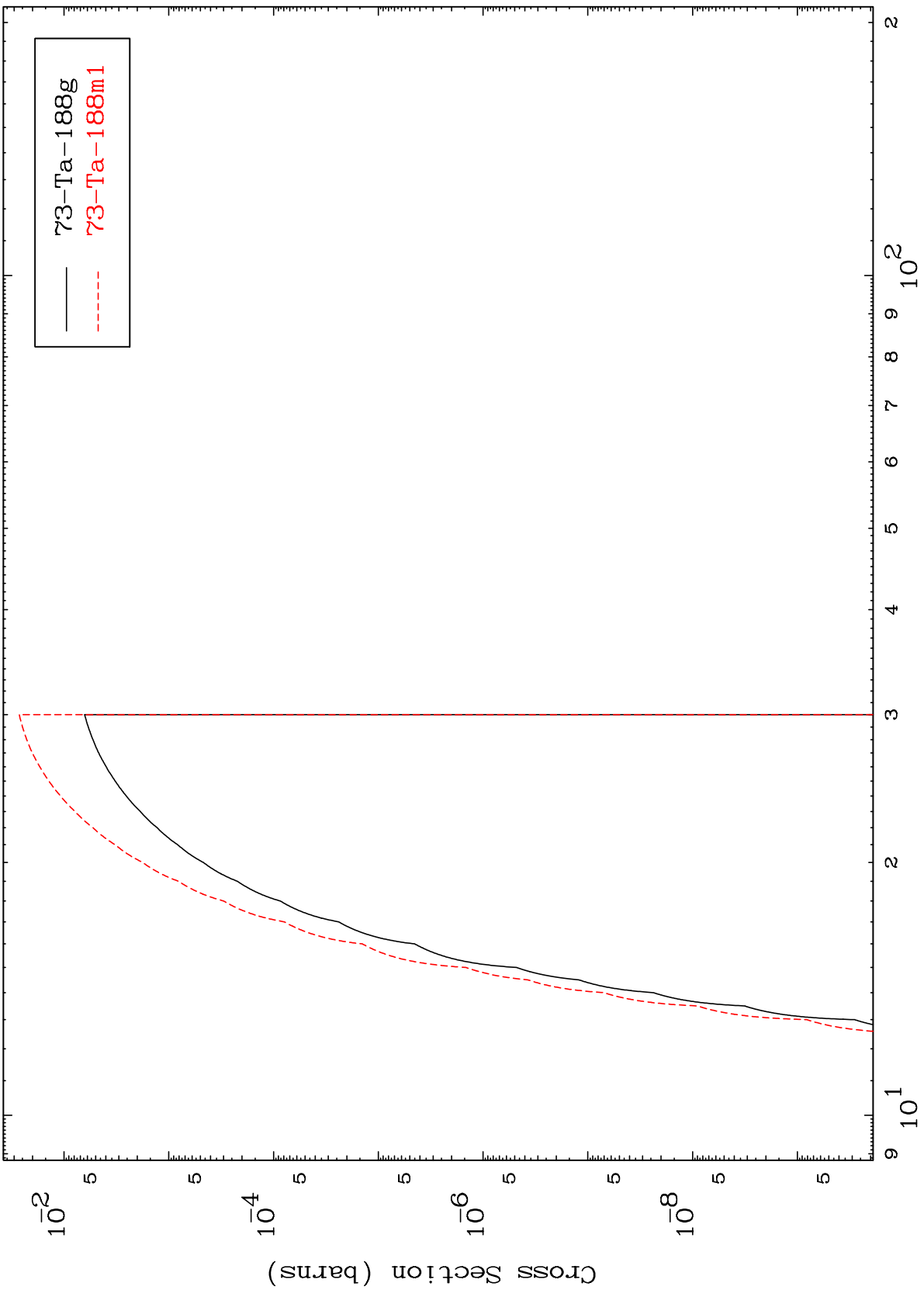
Incident Energy (MeV)

74-W -189

MAT 7452

74-W -189

(n,n') p  
Radionuclide Production Cross Section



73-Ta-188g  
73-Ta-188m1

74-W -189

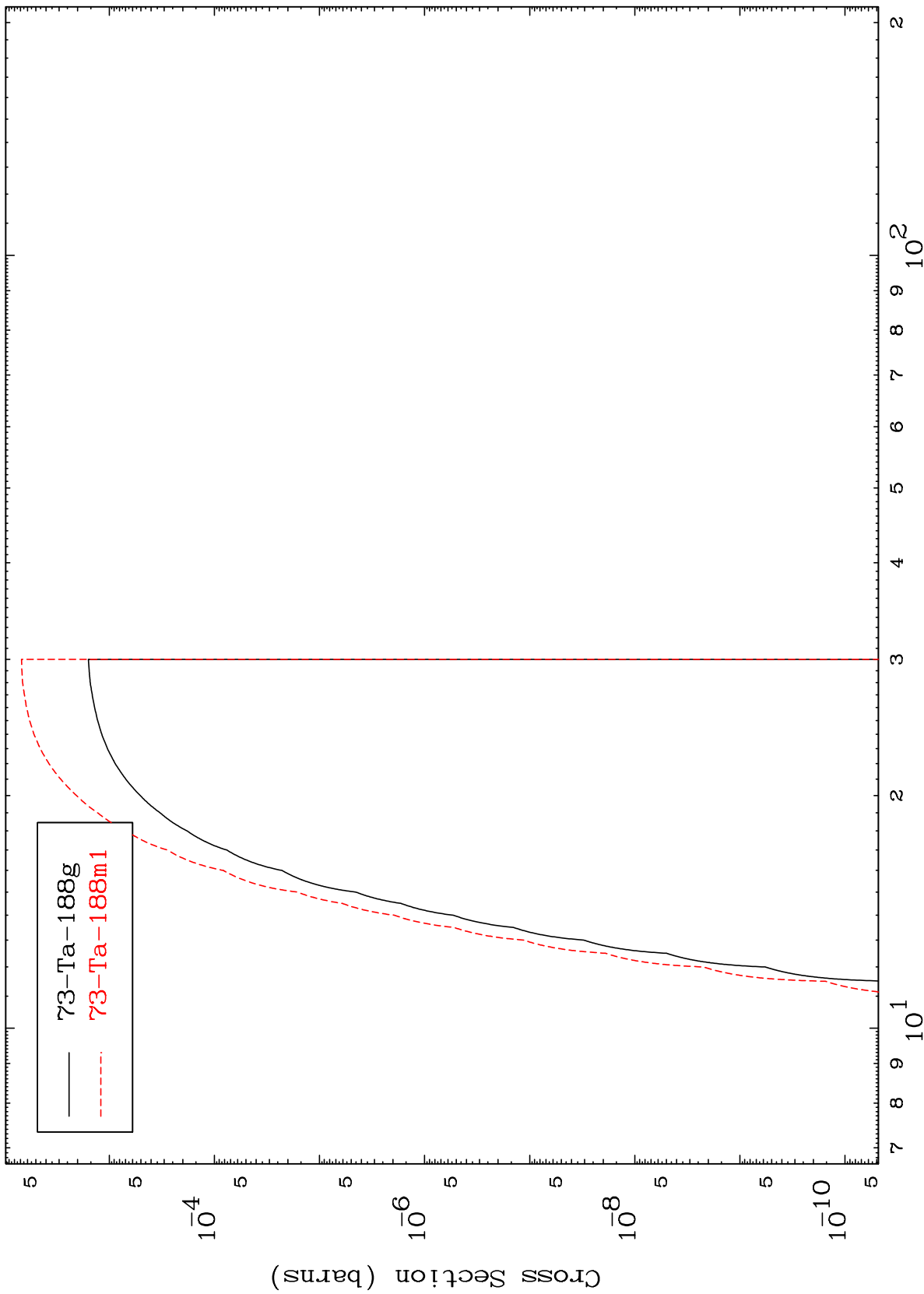
Incident Energy (MeV)

143

MAT 7452

74-W -189

(n,d)  
Radionuclide Production Cross Section



144

74-W -189

Incident Energy (MeV)