

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

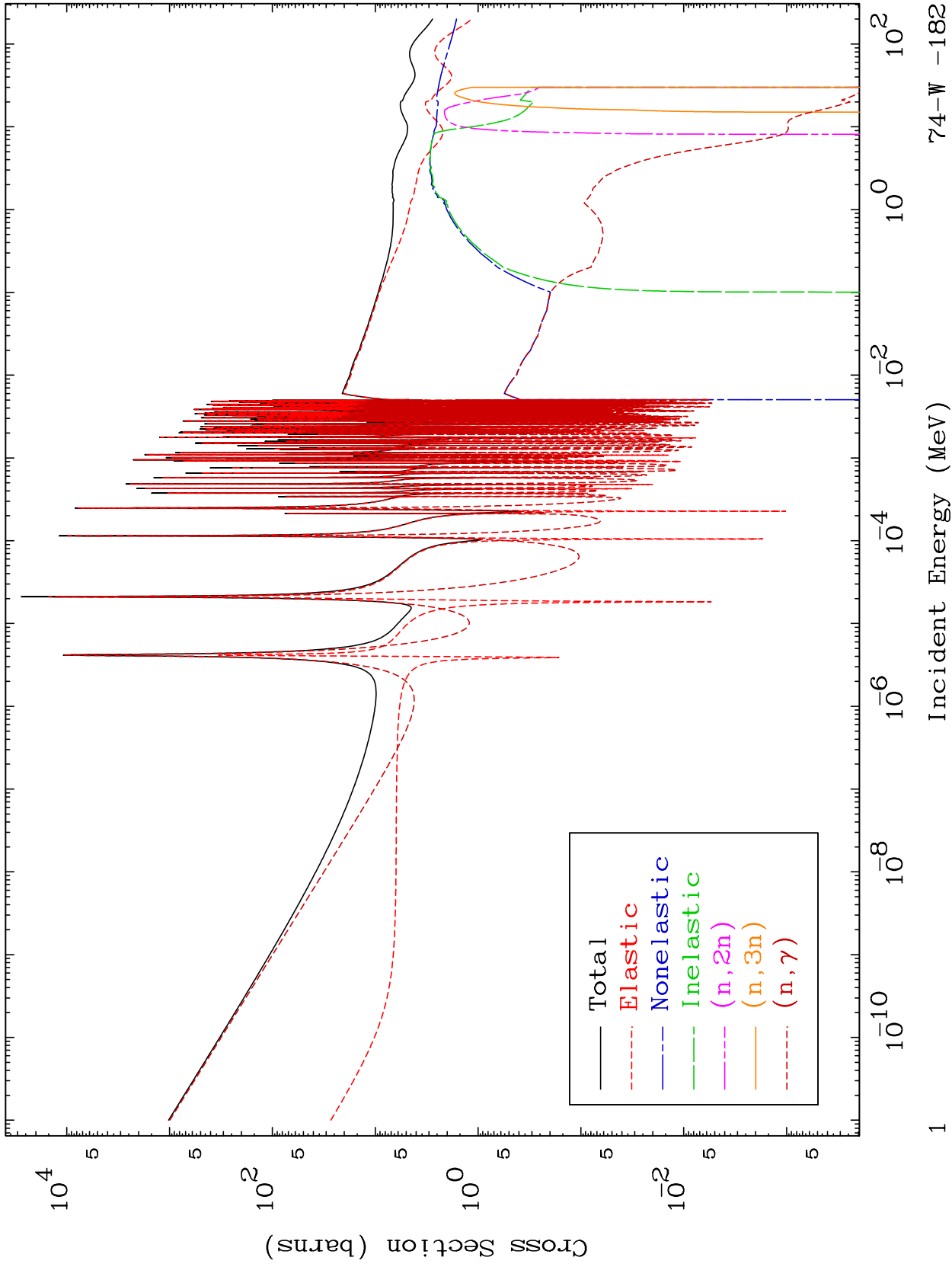
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E.Mail:redcullen1@comcast.net

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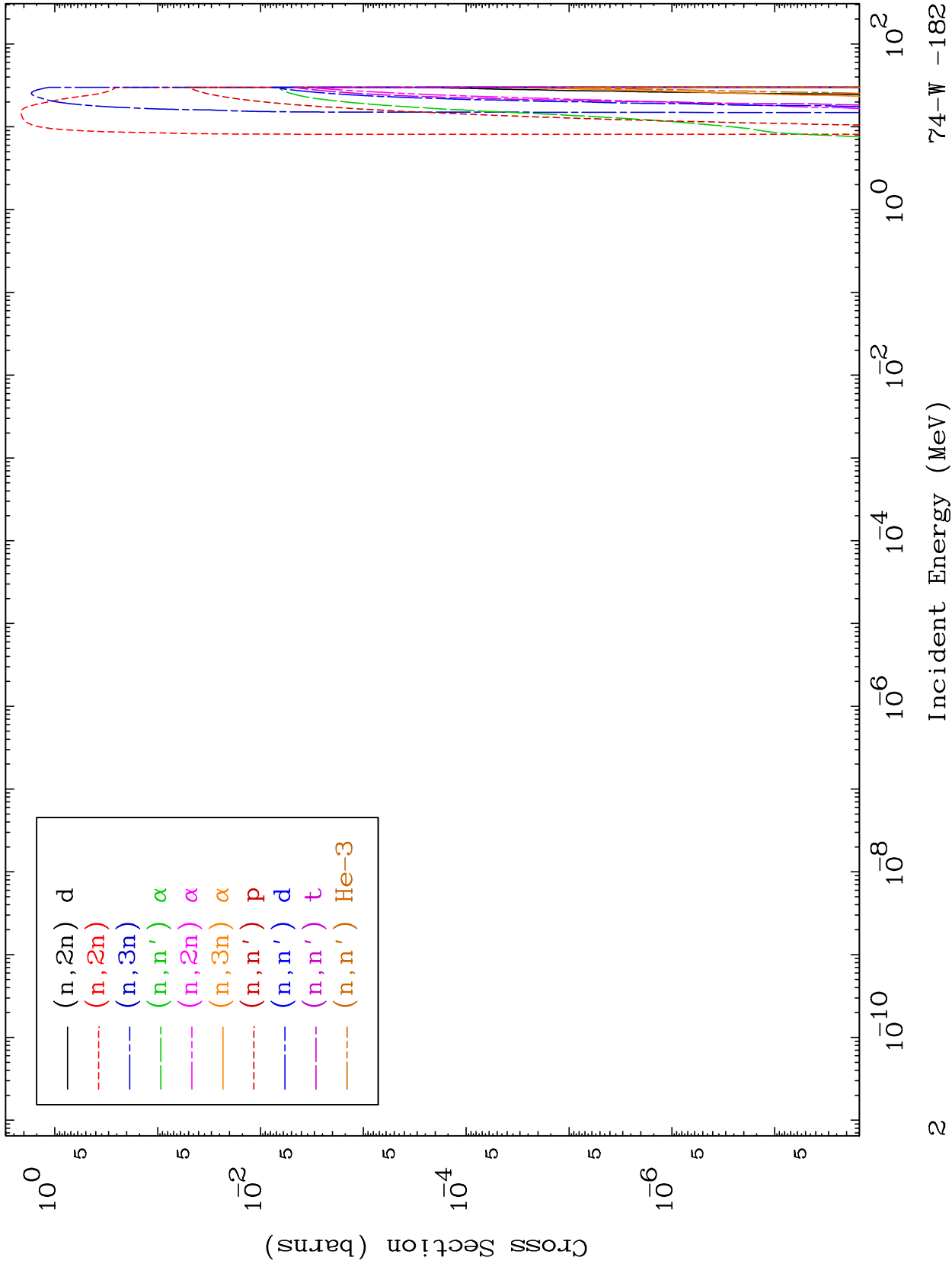
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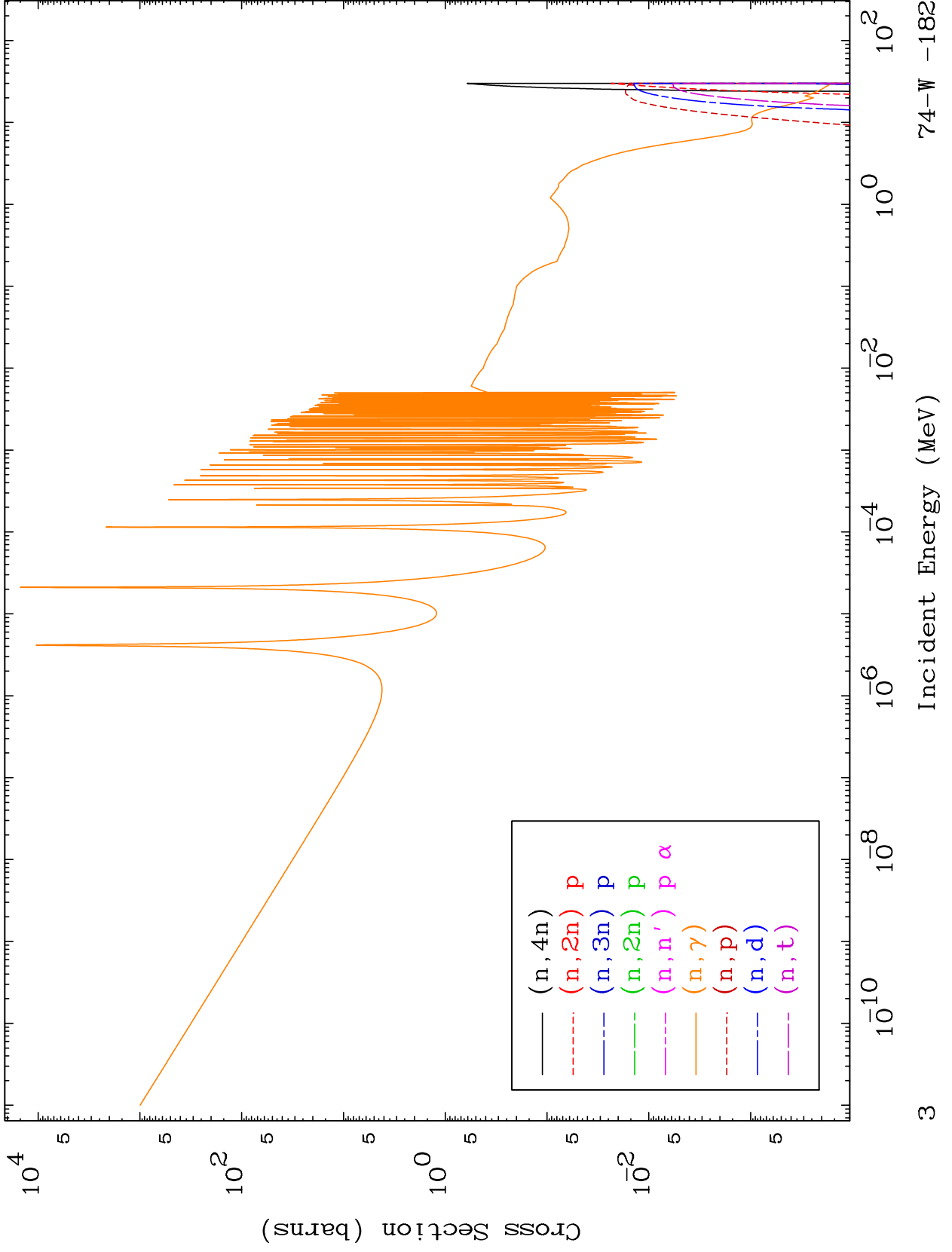


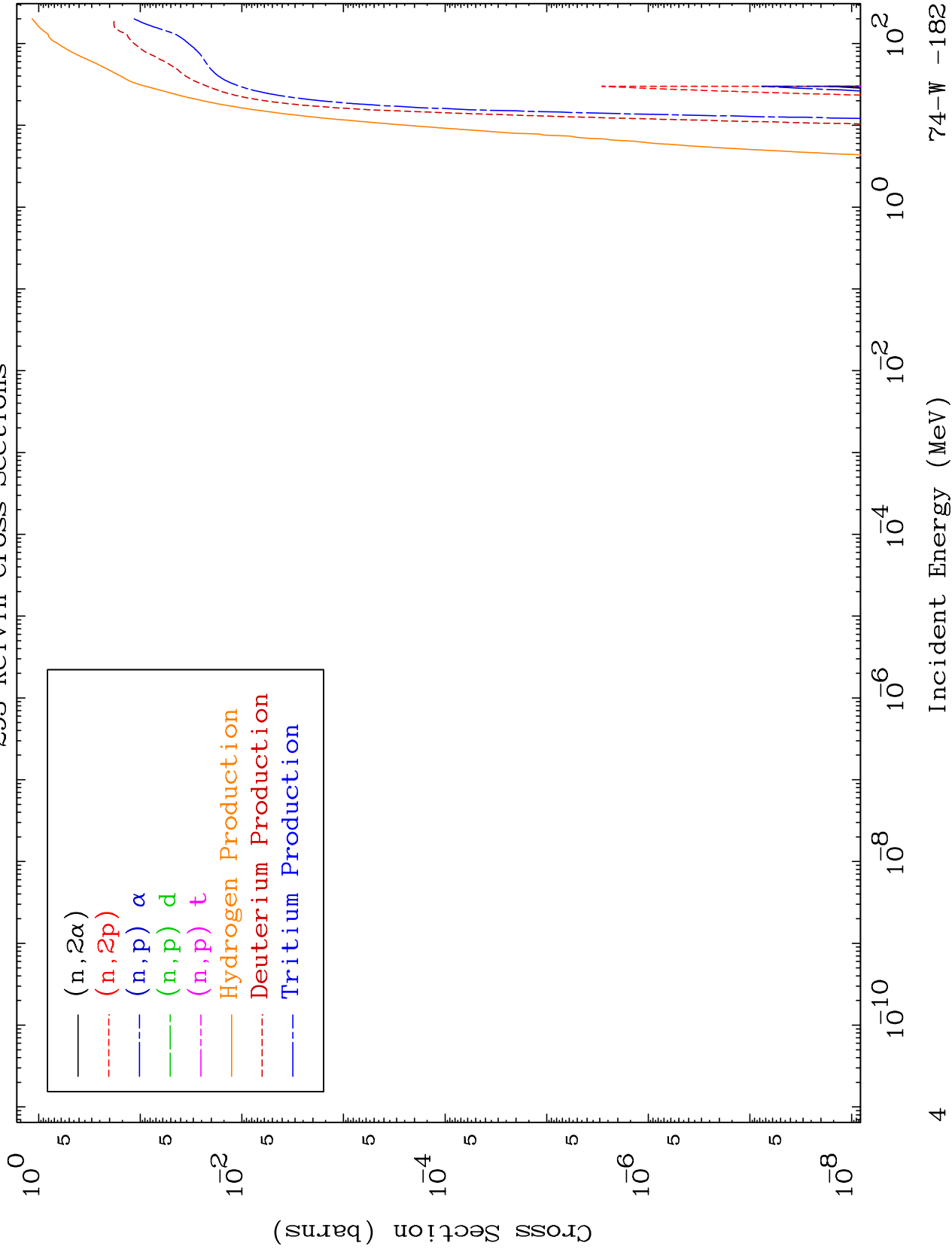
MAT 7431

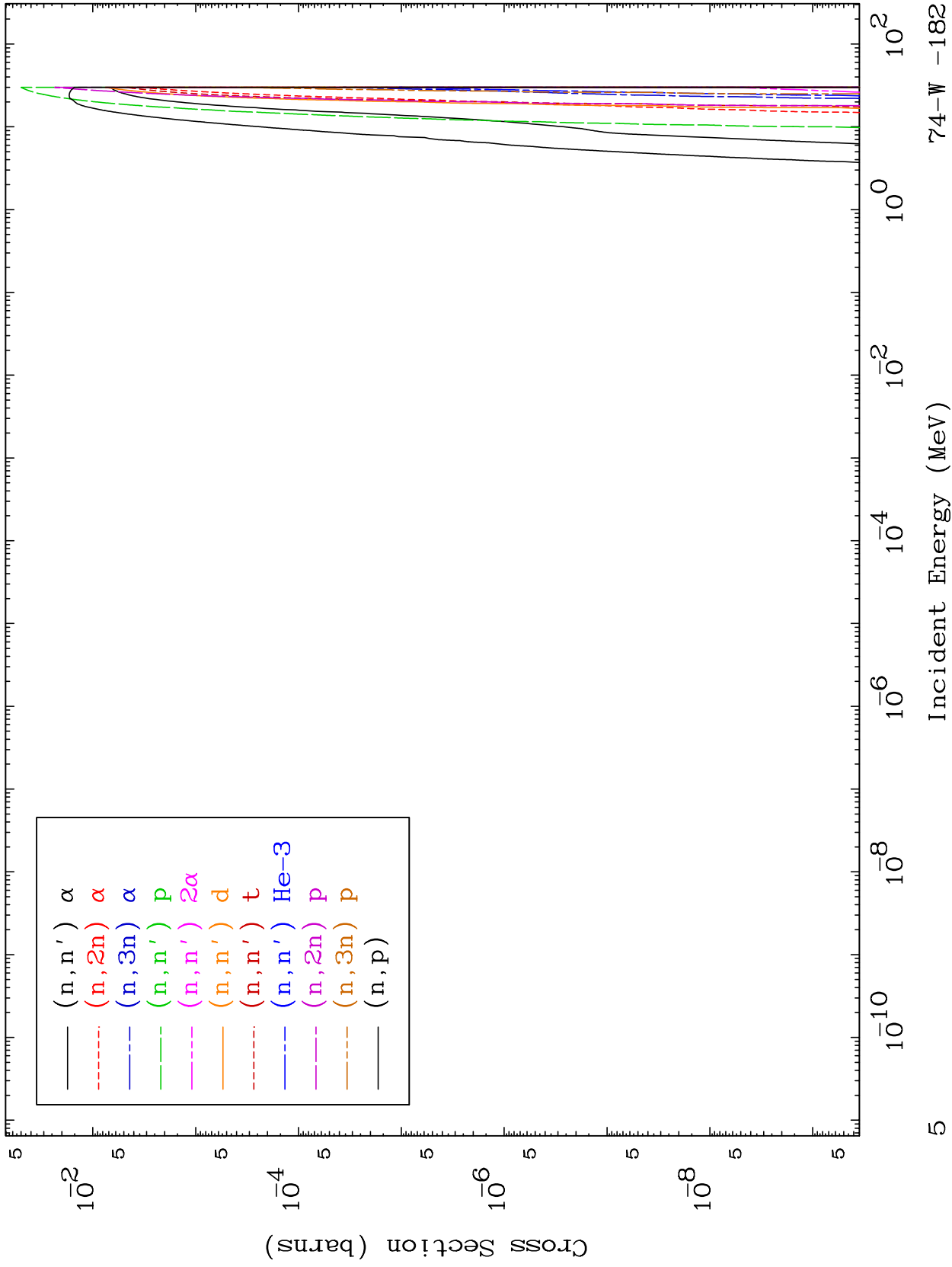
Neutron Absorption  
293 Kelvin Cross Sections

74-W -182





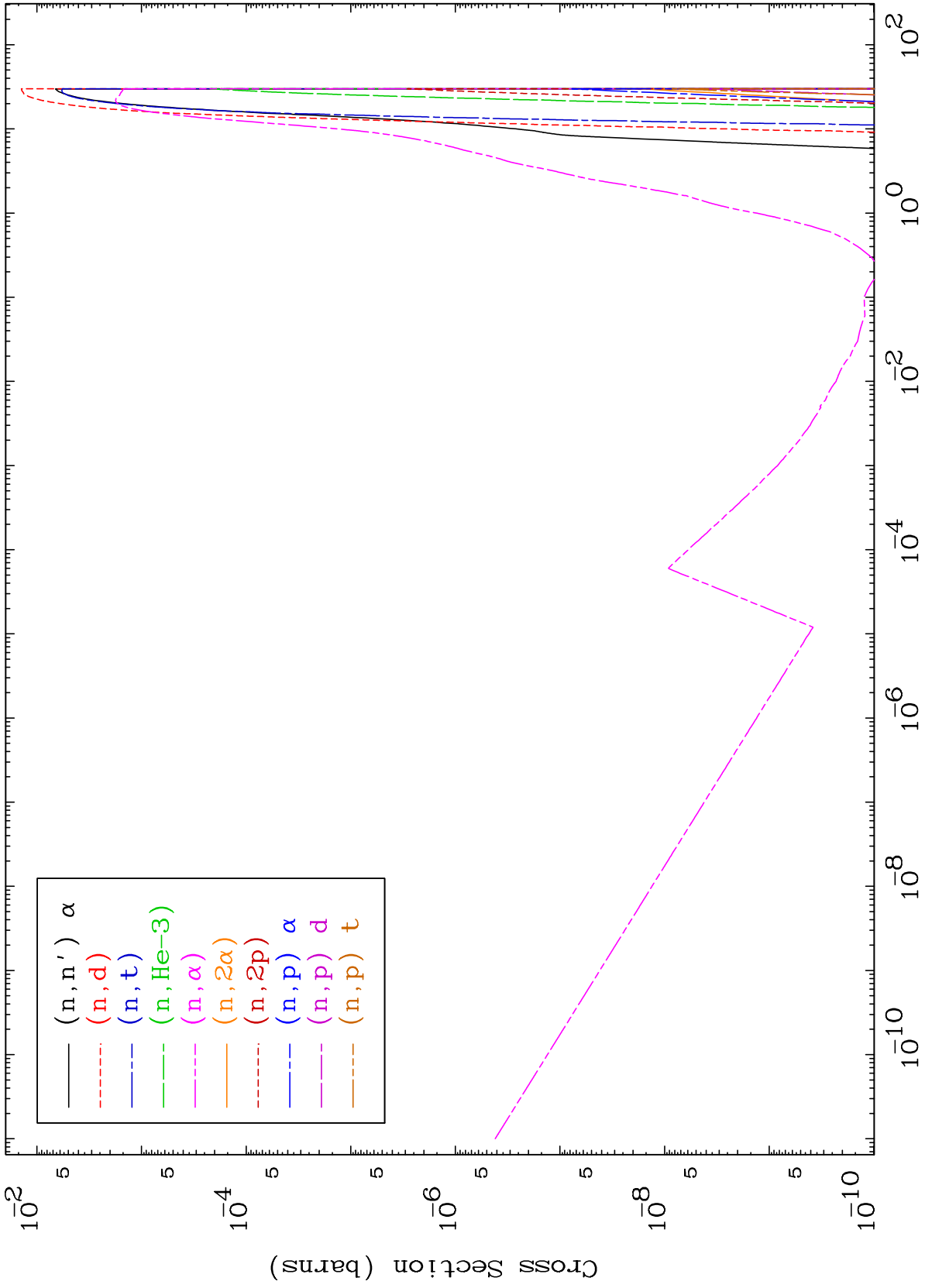




MAT 7431

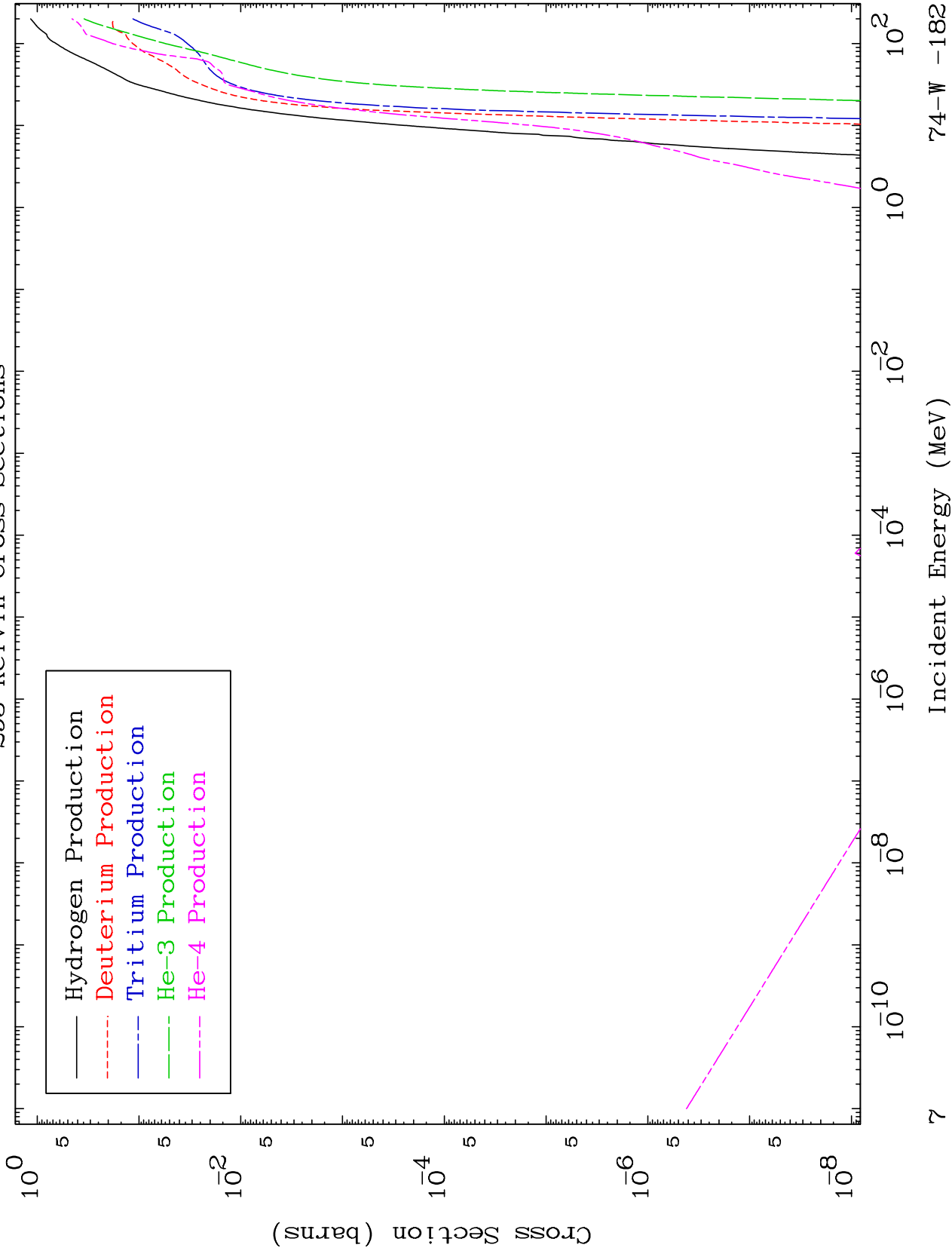
Charged Particle  
293 Kelvin Cross Sections

74-W -182



74-W -182

Incident Energy (MeV)

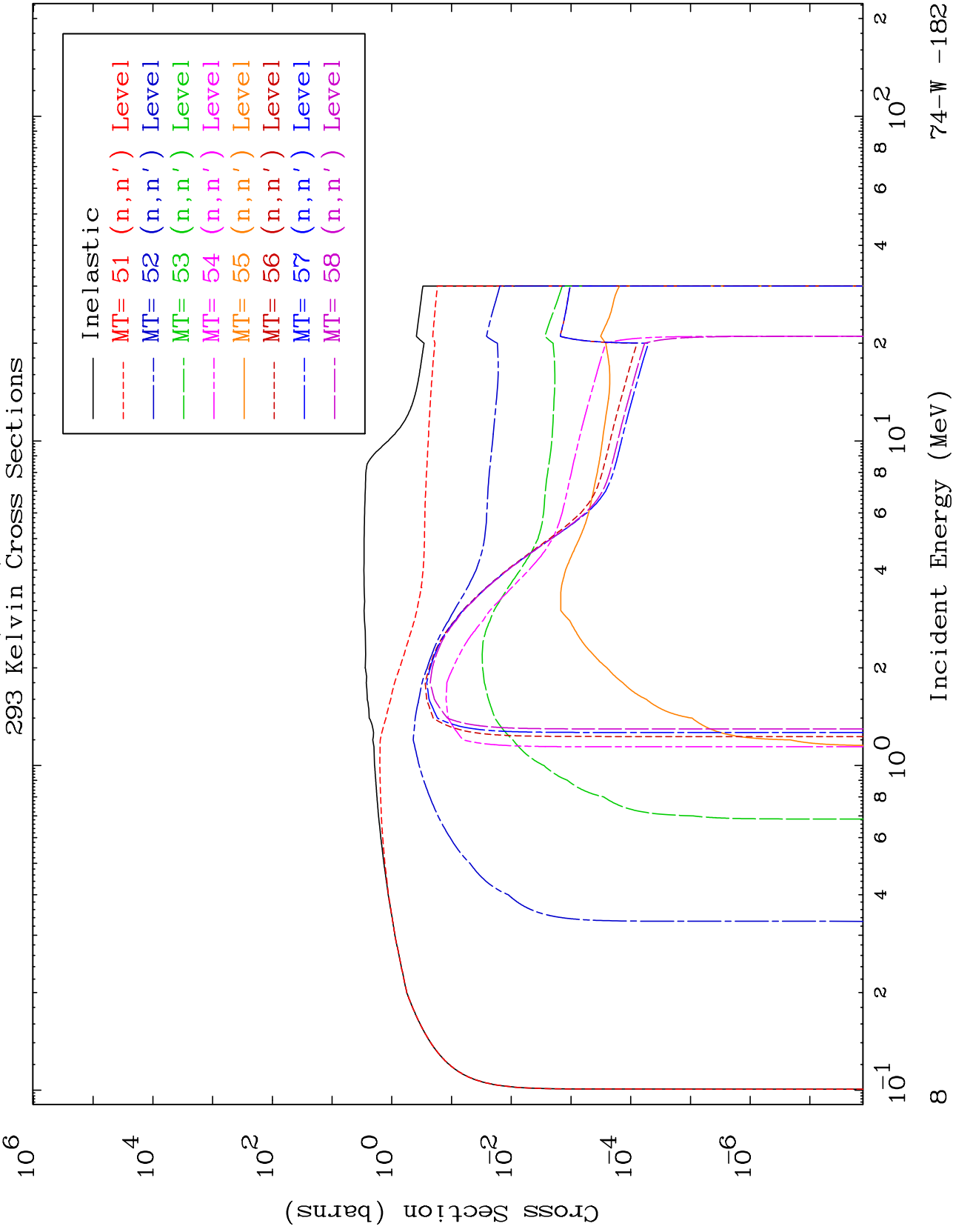


MAT 7431

(n,n') Levels

74-W -182

293 Kelvin Cross Sections



Incident Energy (MeV)

74-W -182

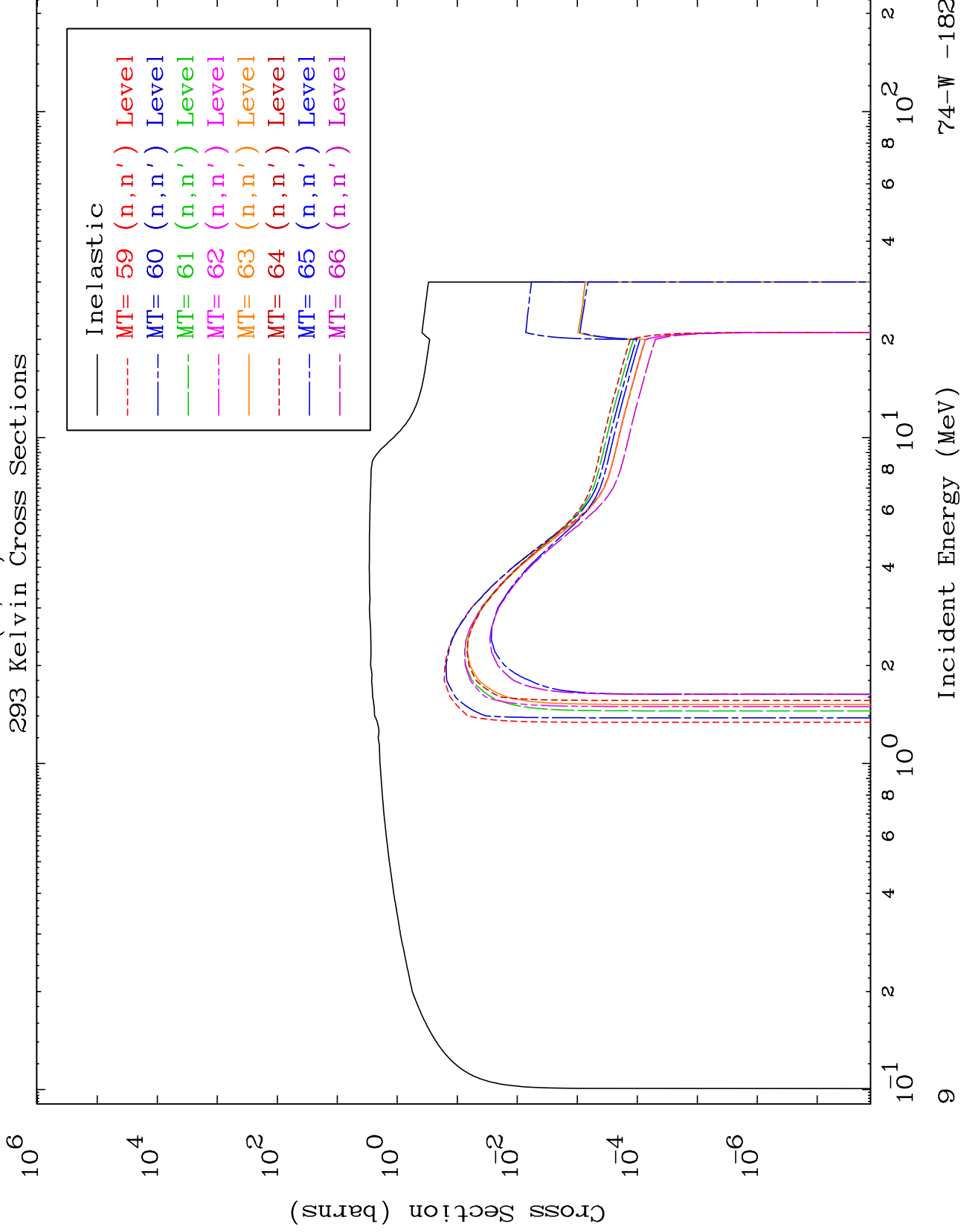
8

MAT 7431

(n,n') Levels

293 Kelvin Cross Sections

74-W -182



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Incident Energy (MeV)

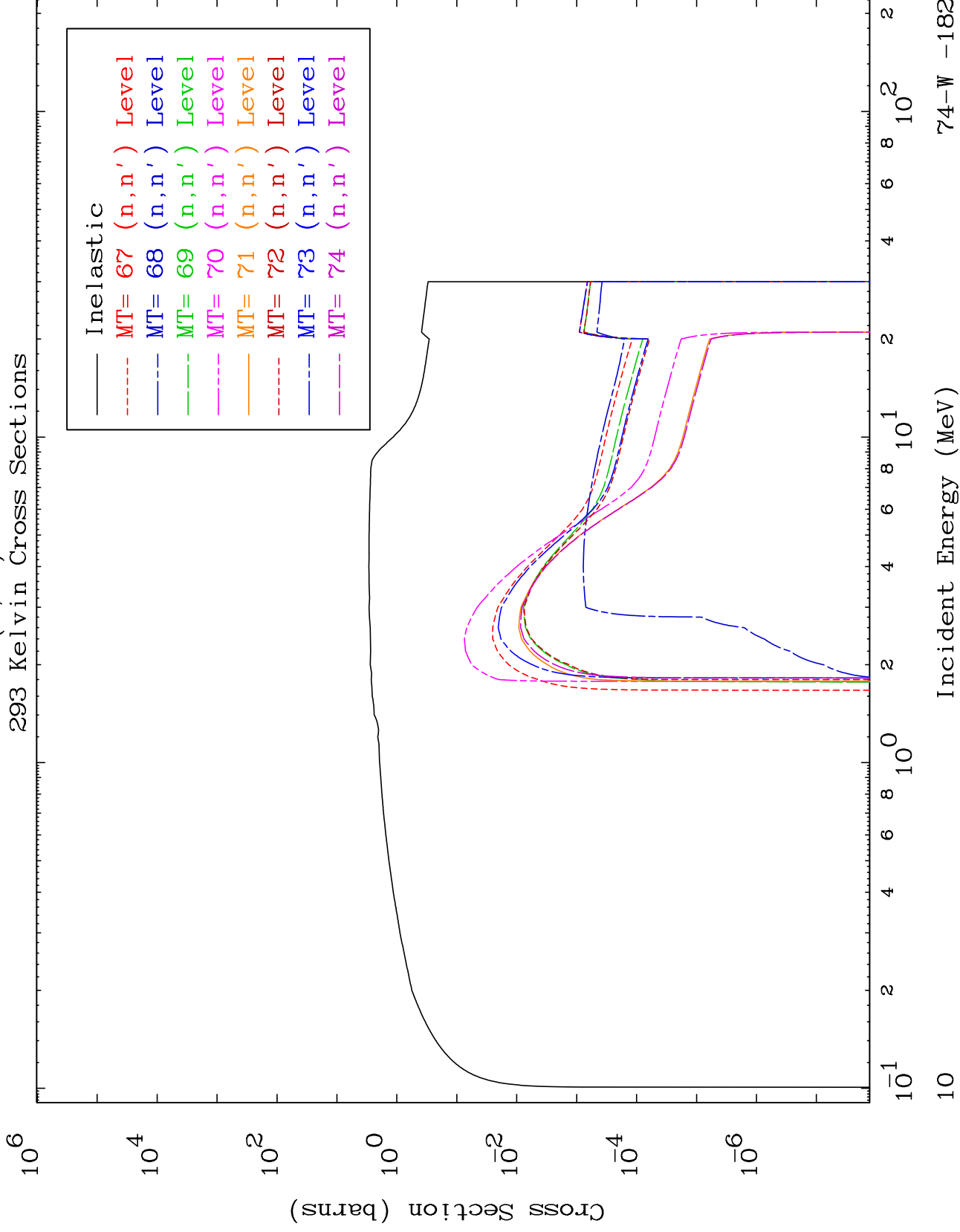
74-W -182

MAT 7431

(n,n') Levels

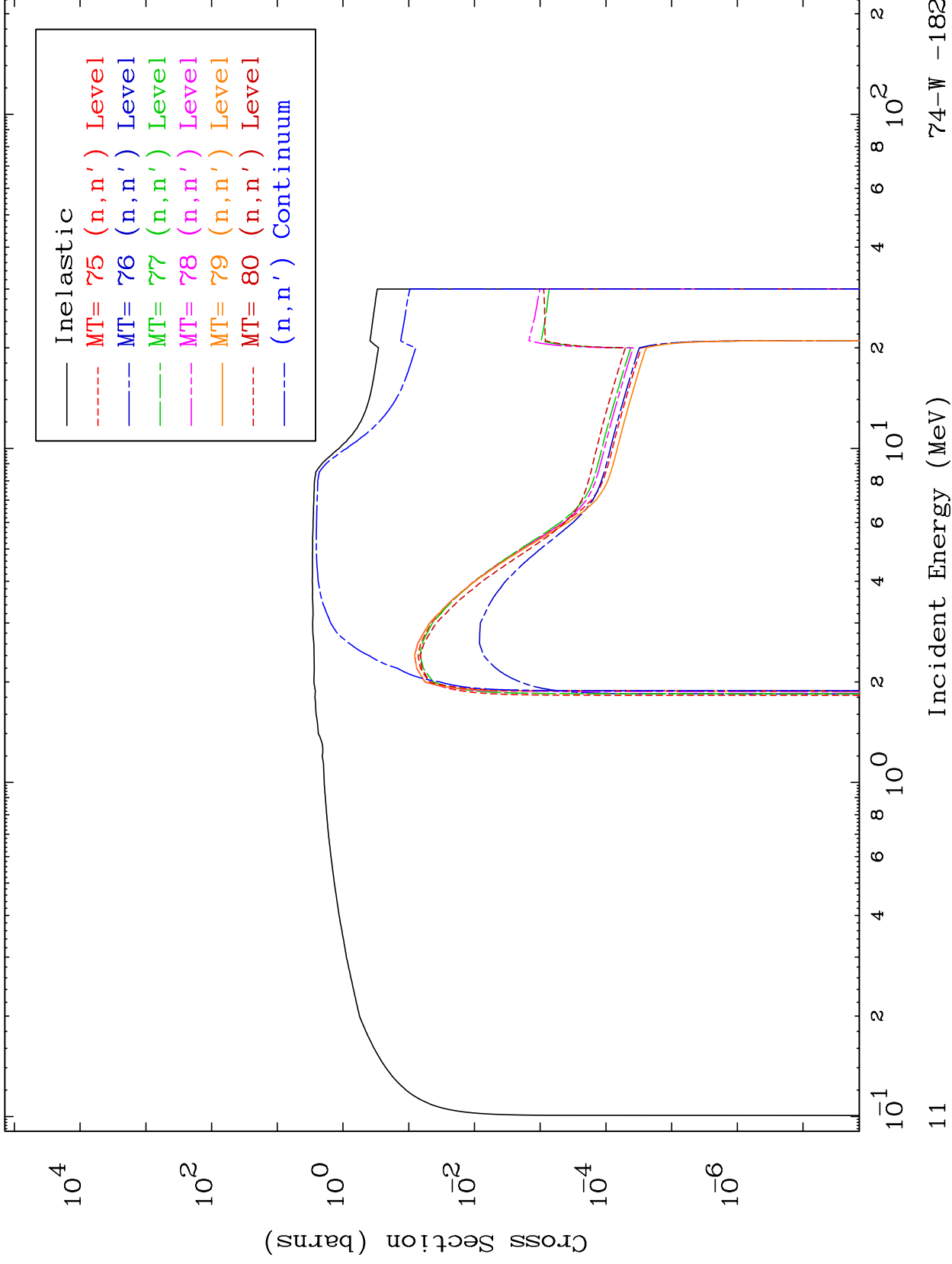
293 Kelvin Cross Sections

74-W -182



Incident Energy (MeV)

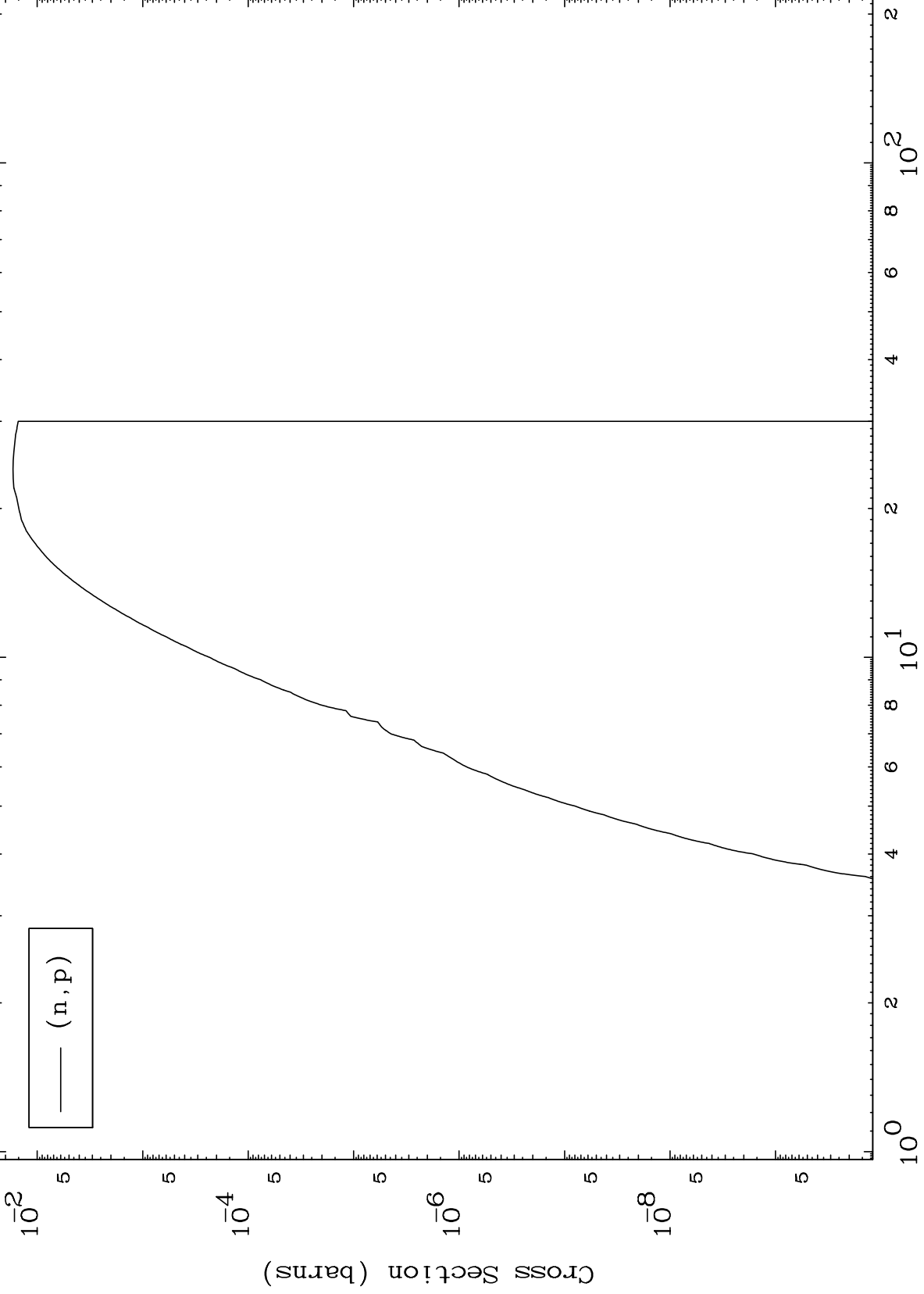
74-W -182



MAT 7431

(n,p) Levels  
293 Kelvin Cross Sections

74-W -182



12

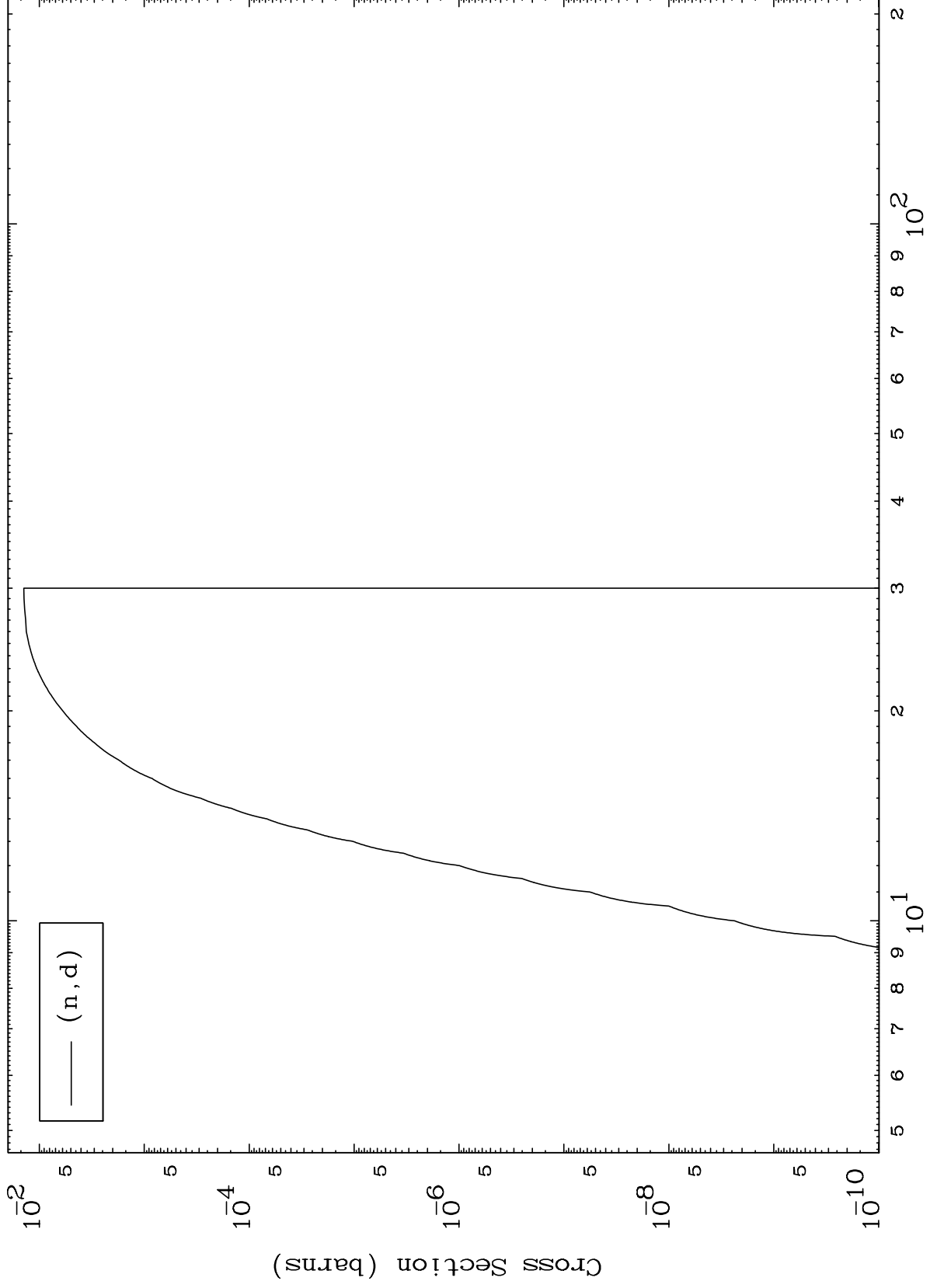
Incident Energy (MeV)

74-W -182

MAT 7431

(n,d) Levels  
293 Kelvin Cross Sections

74-W -182



13

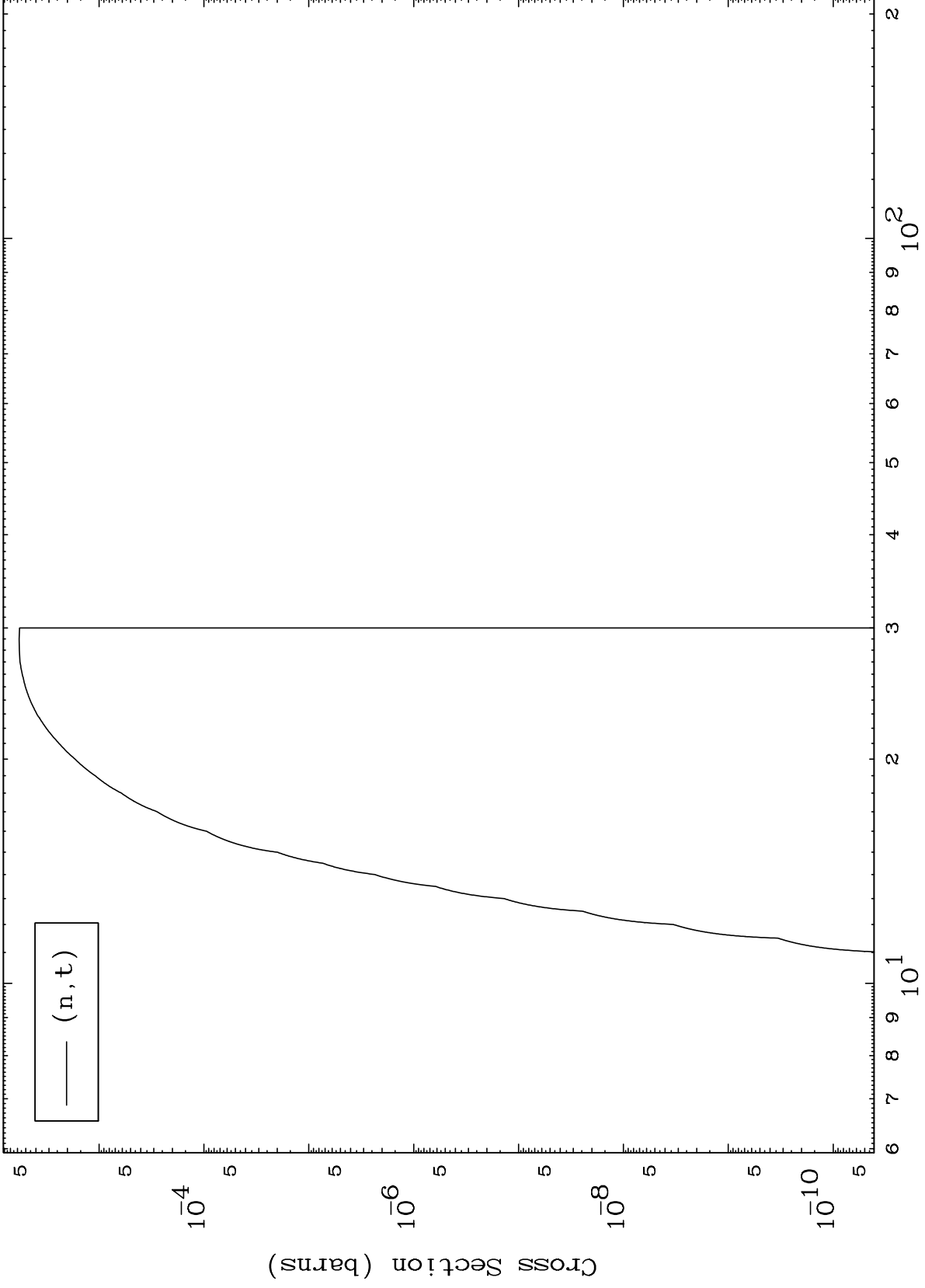
Incident Energy (MeV)

74-W -182

MAT 7431

(n,t) Levels  
293 Kelvin Cross Sections

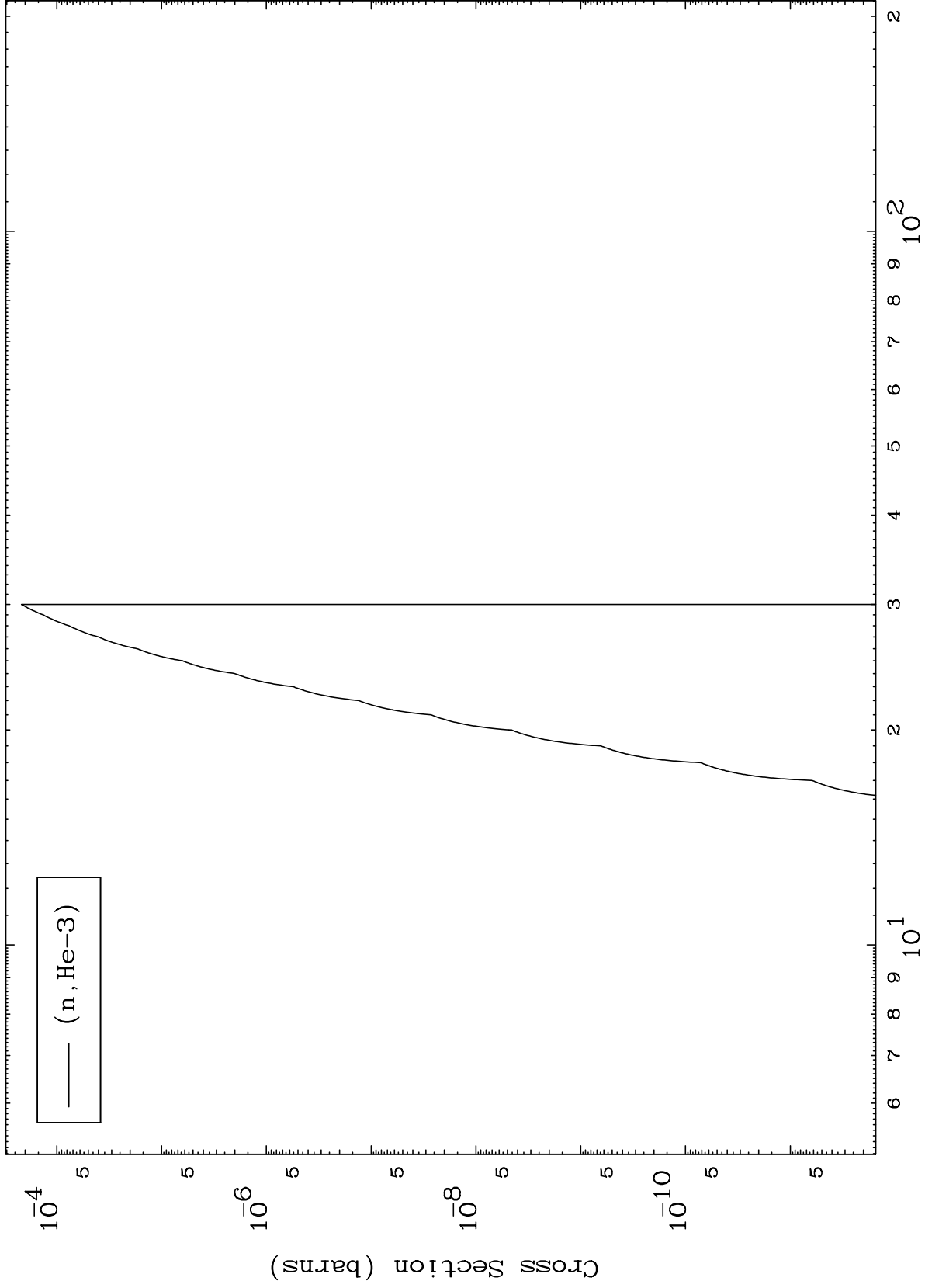
74-W -182



14

Incident Energy (MeV)

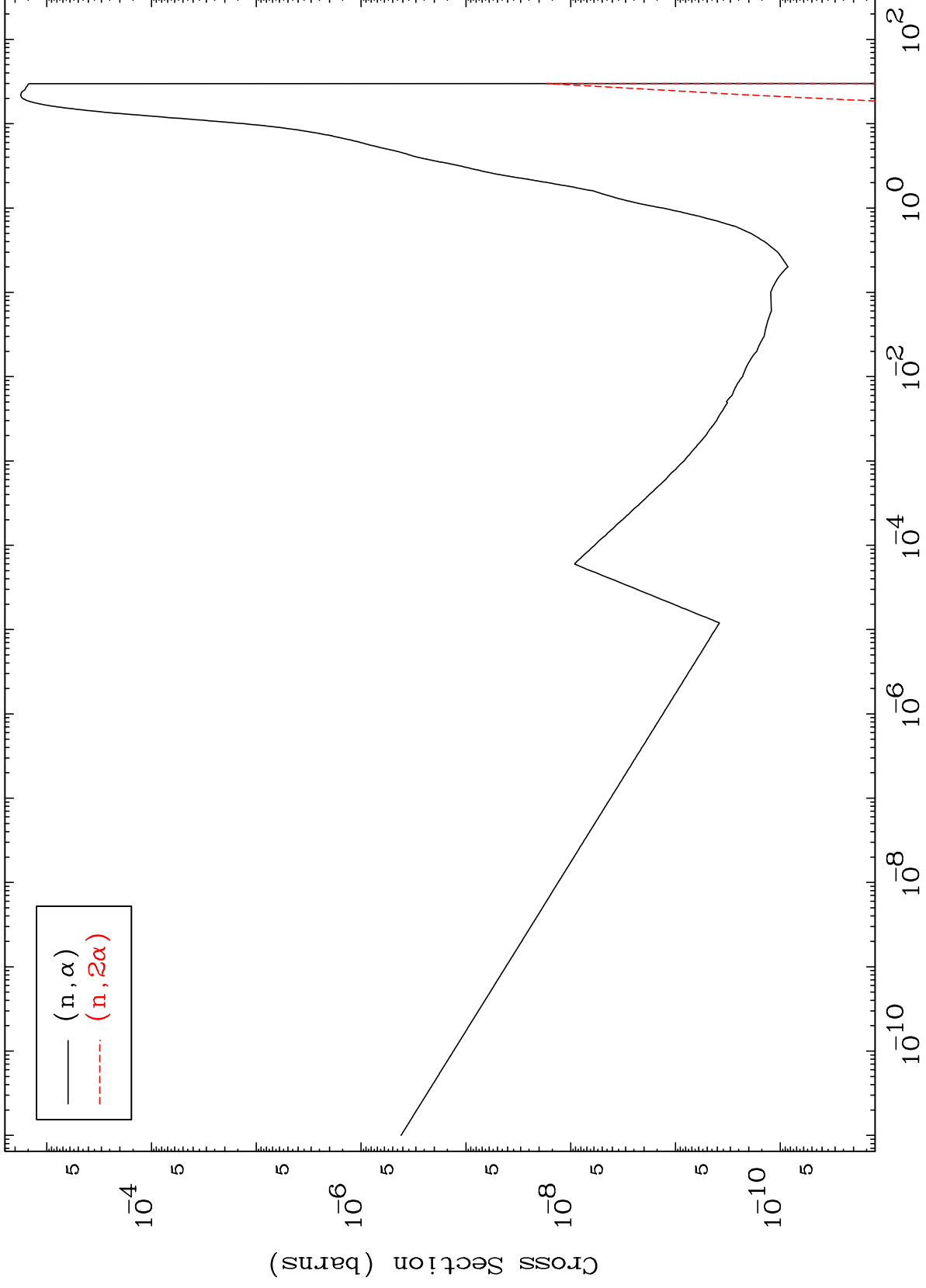
74-W -182



MAT 7431

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

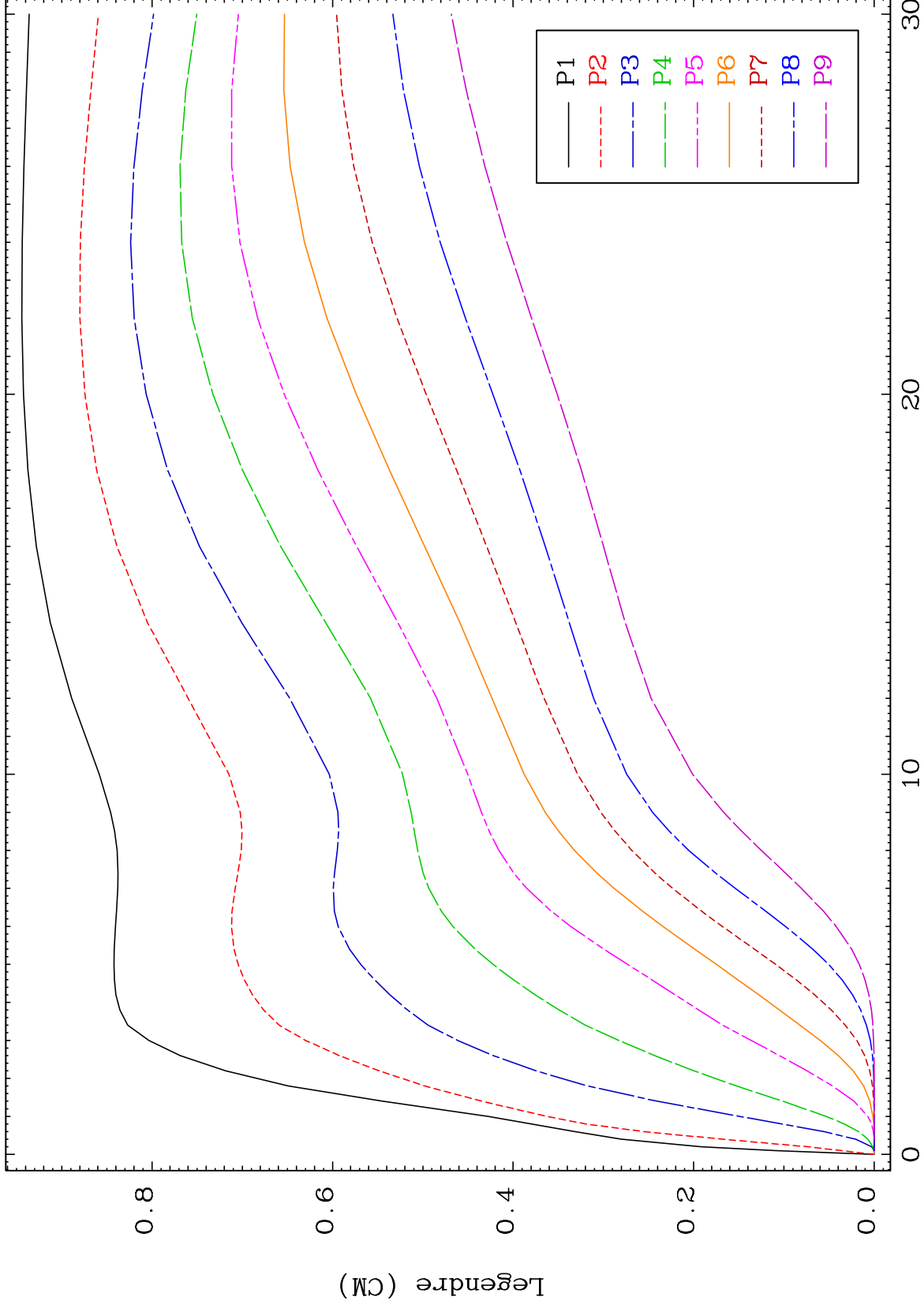
74-W -182

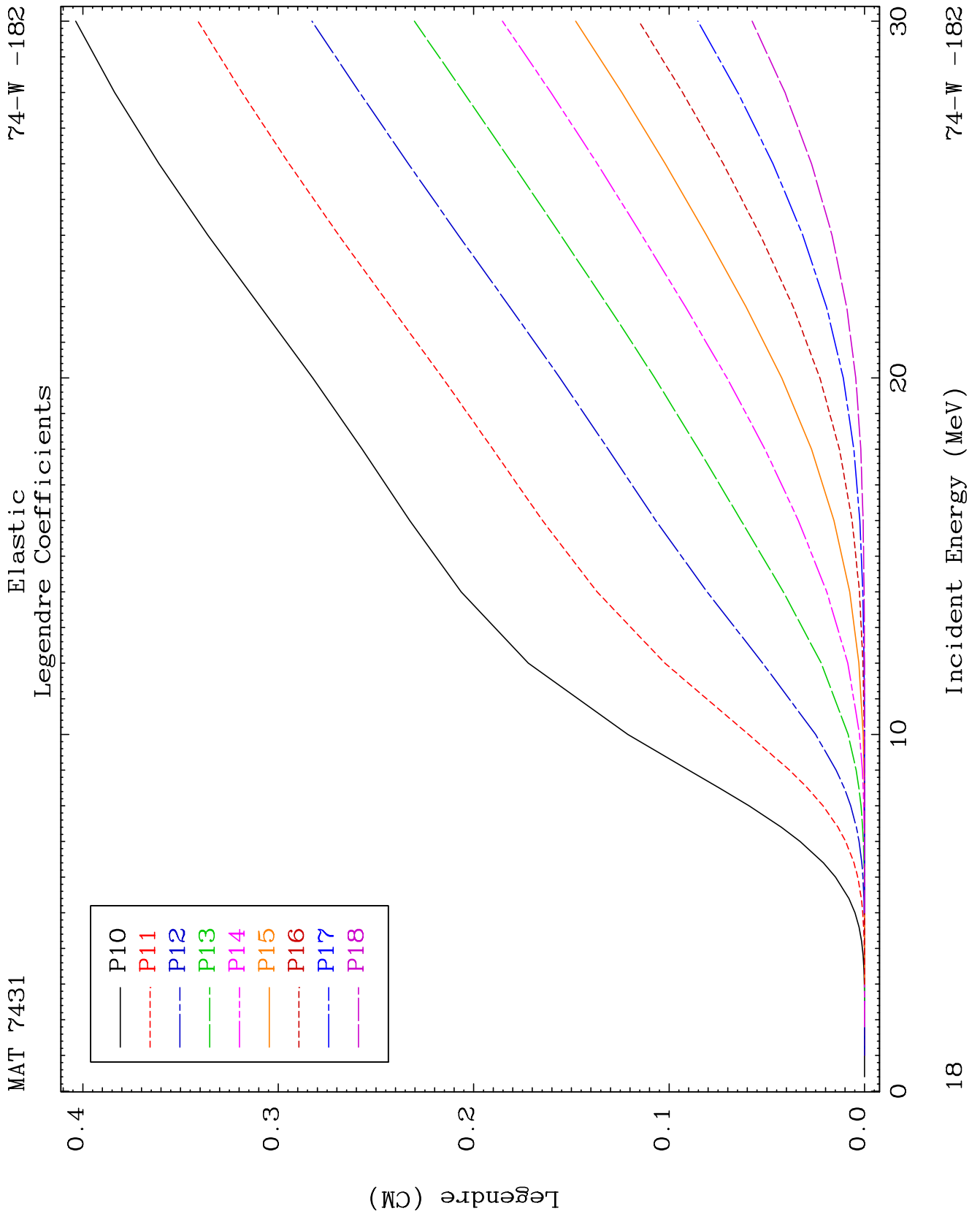


16

Incident Energy (MeV)

74-W -182

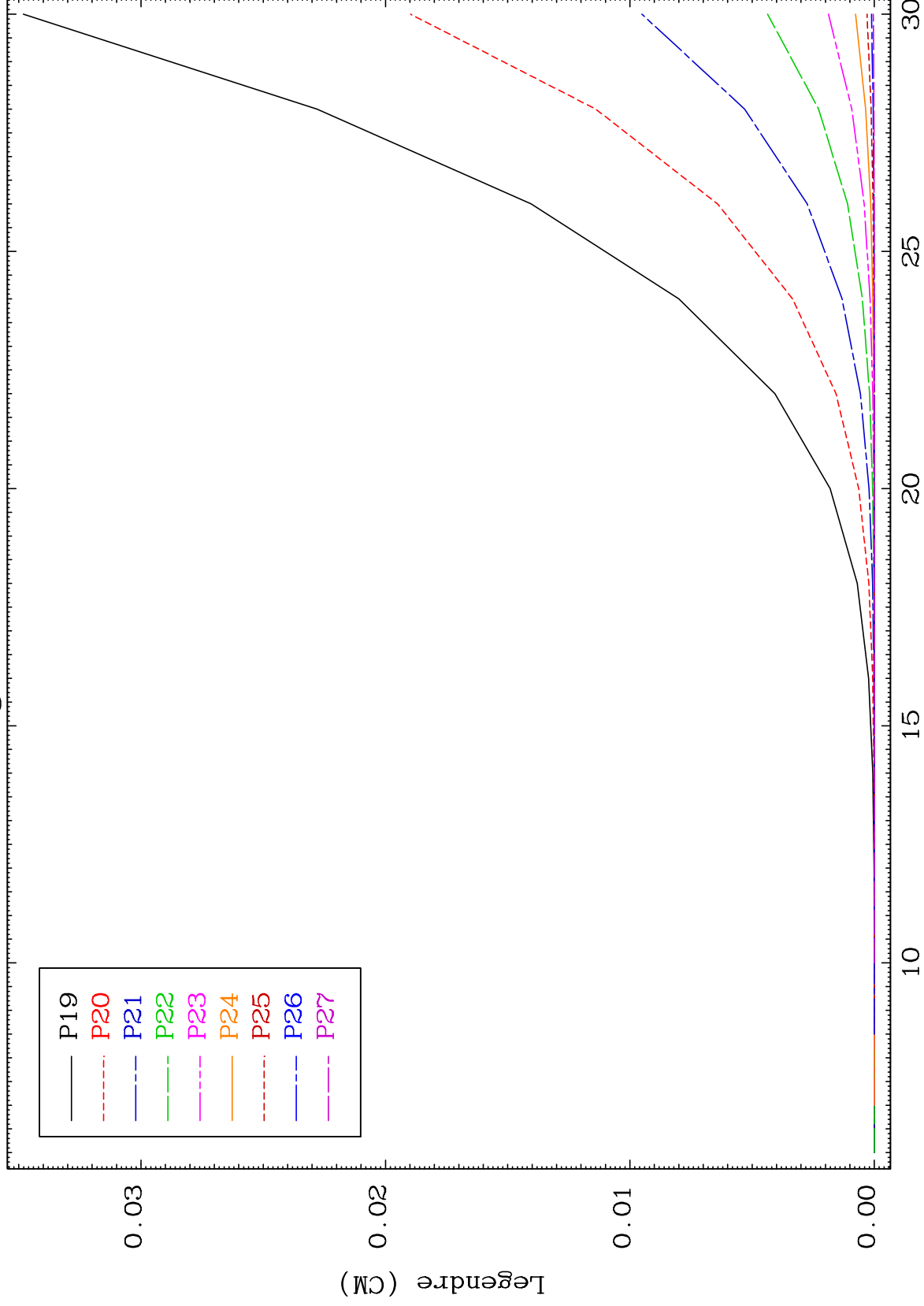




MAT 7431

### Elastic Legendre Coefficients

74-W -182



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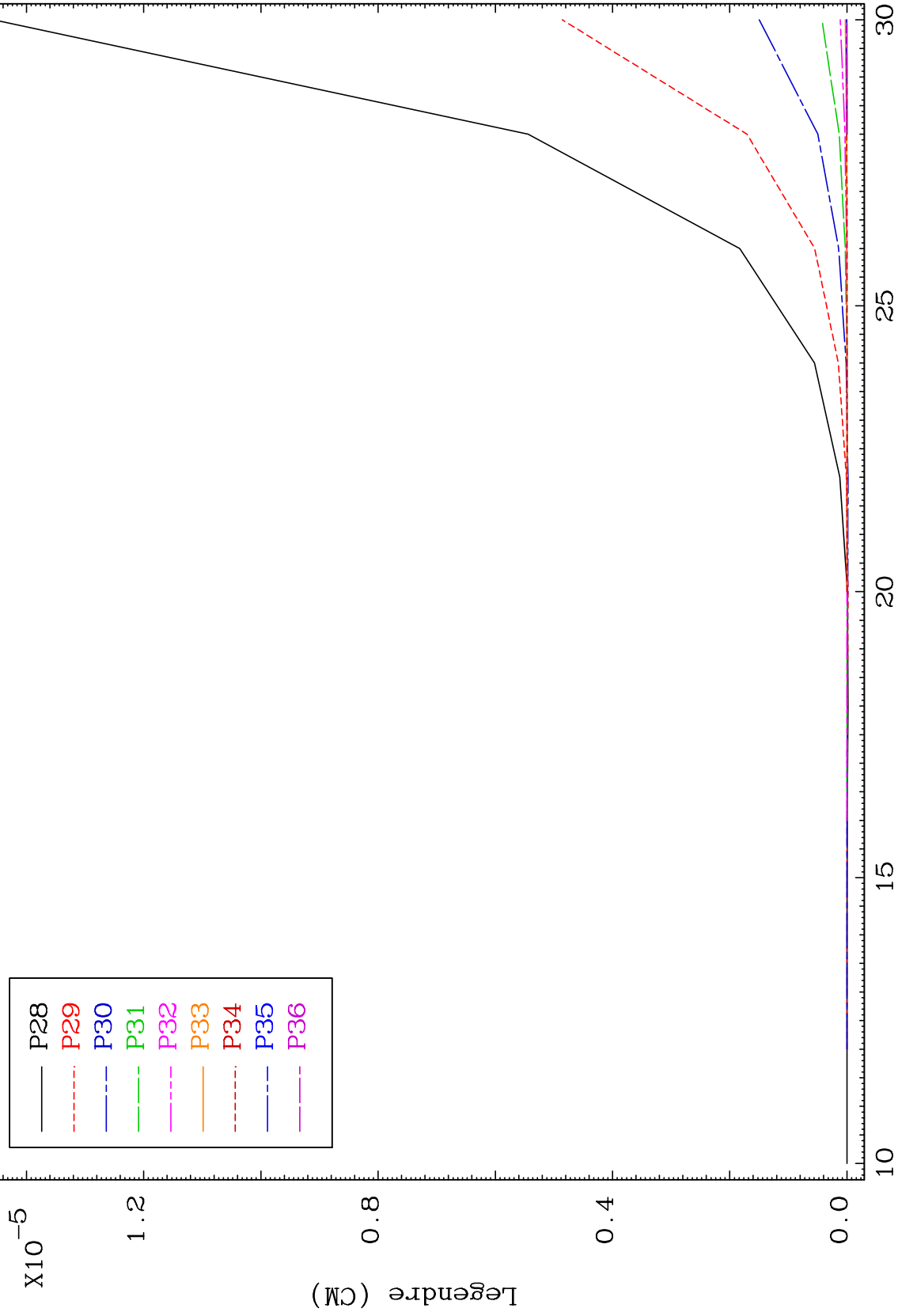
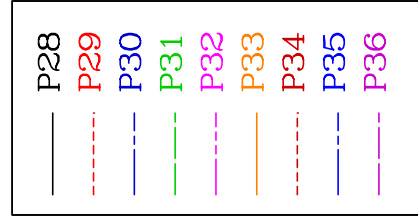
Incident Energy (MeV)

74-W -182

MAT 7431

Elastic  
Legendre Coefficients

74-W -182



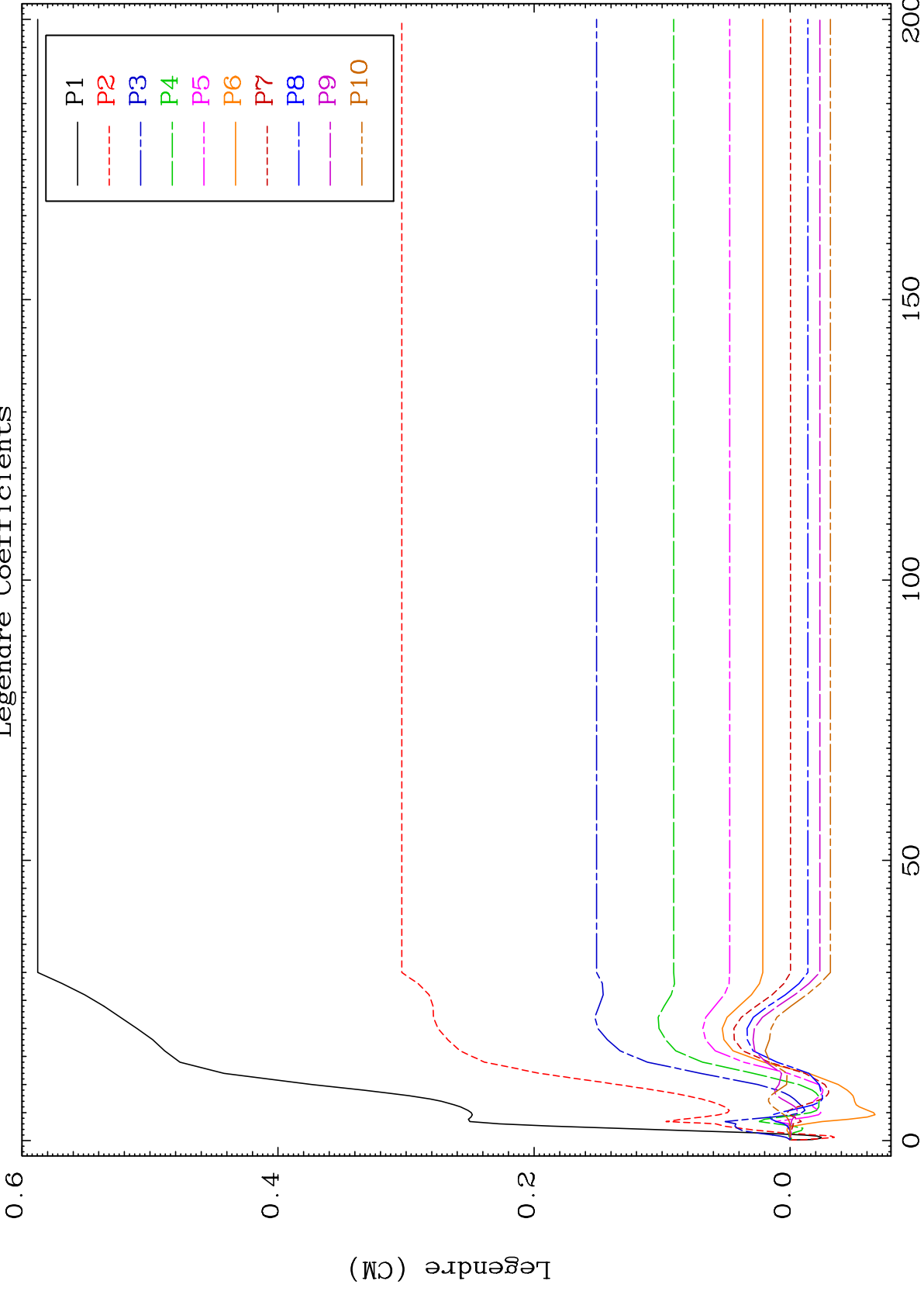
Incident Energy (MeV)

74-W -182

MAT 7431

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

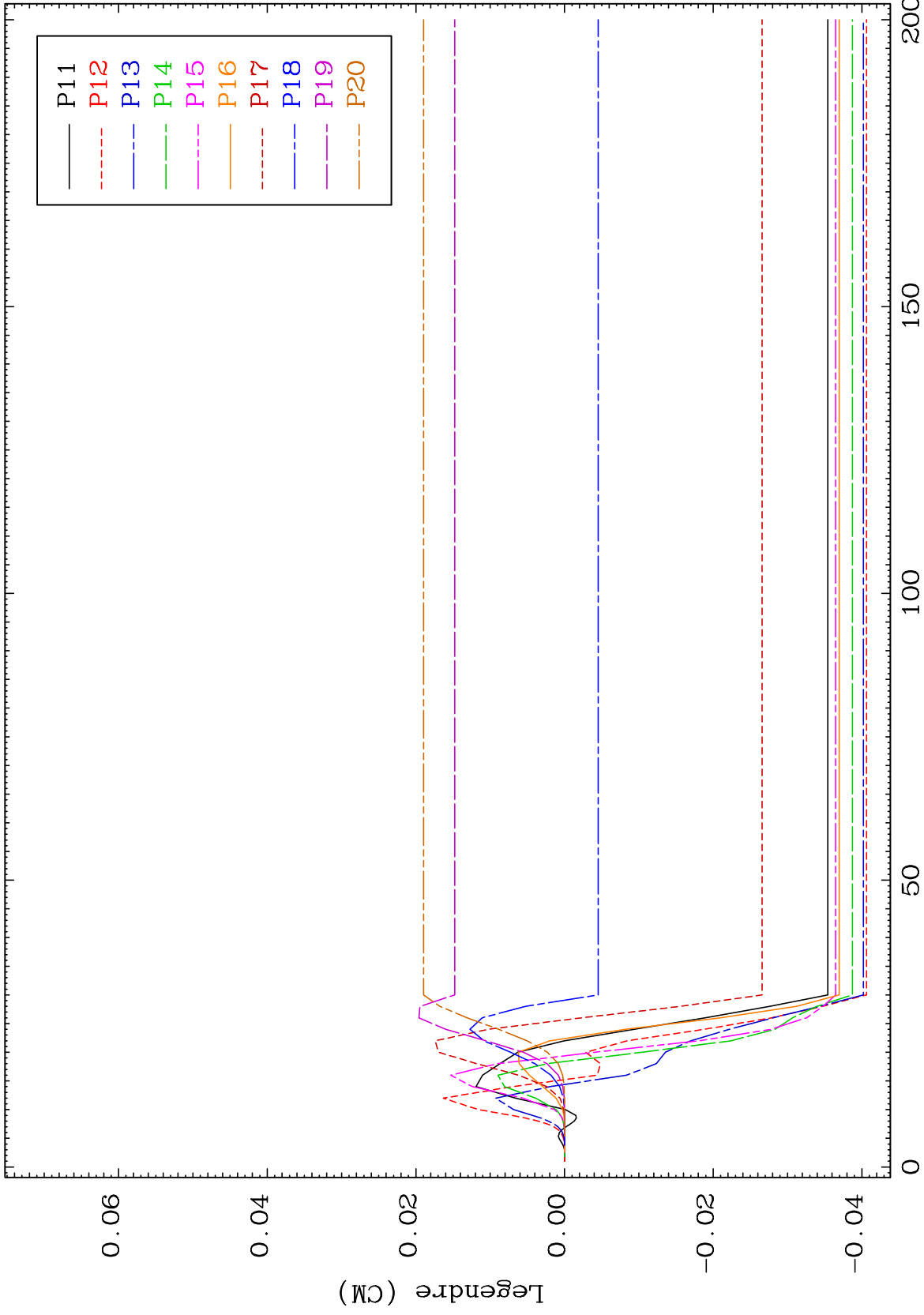
74-W -182

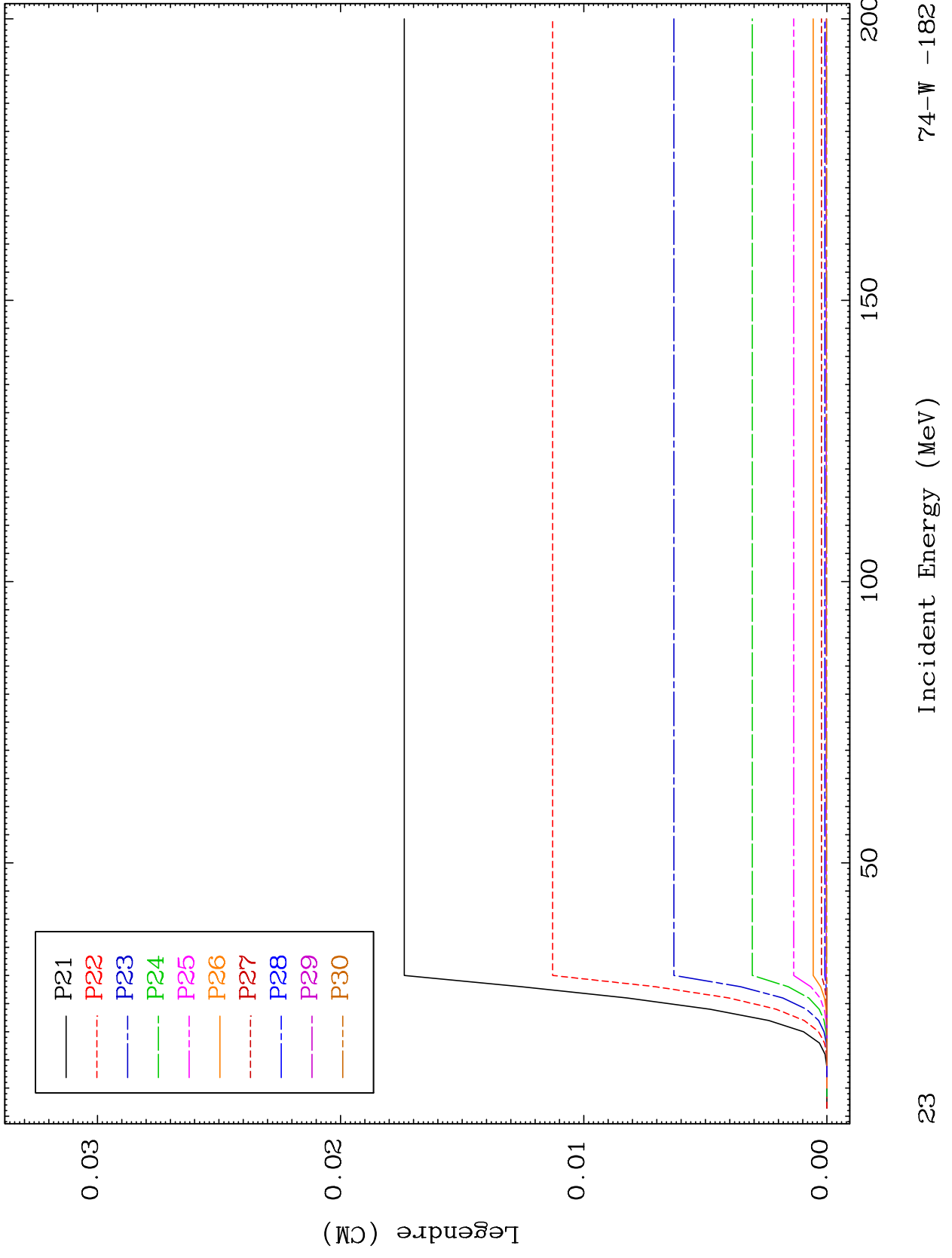


21

Incident Energy (MeV)

74-W -182

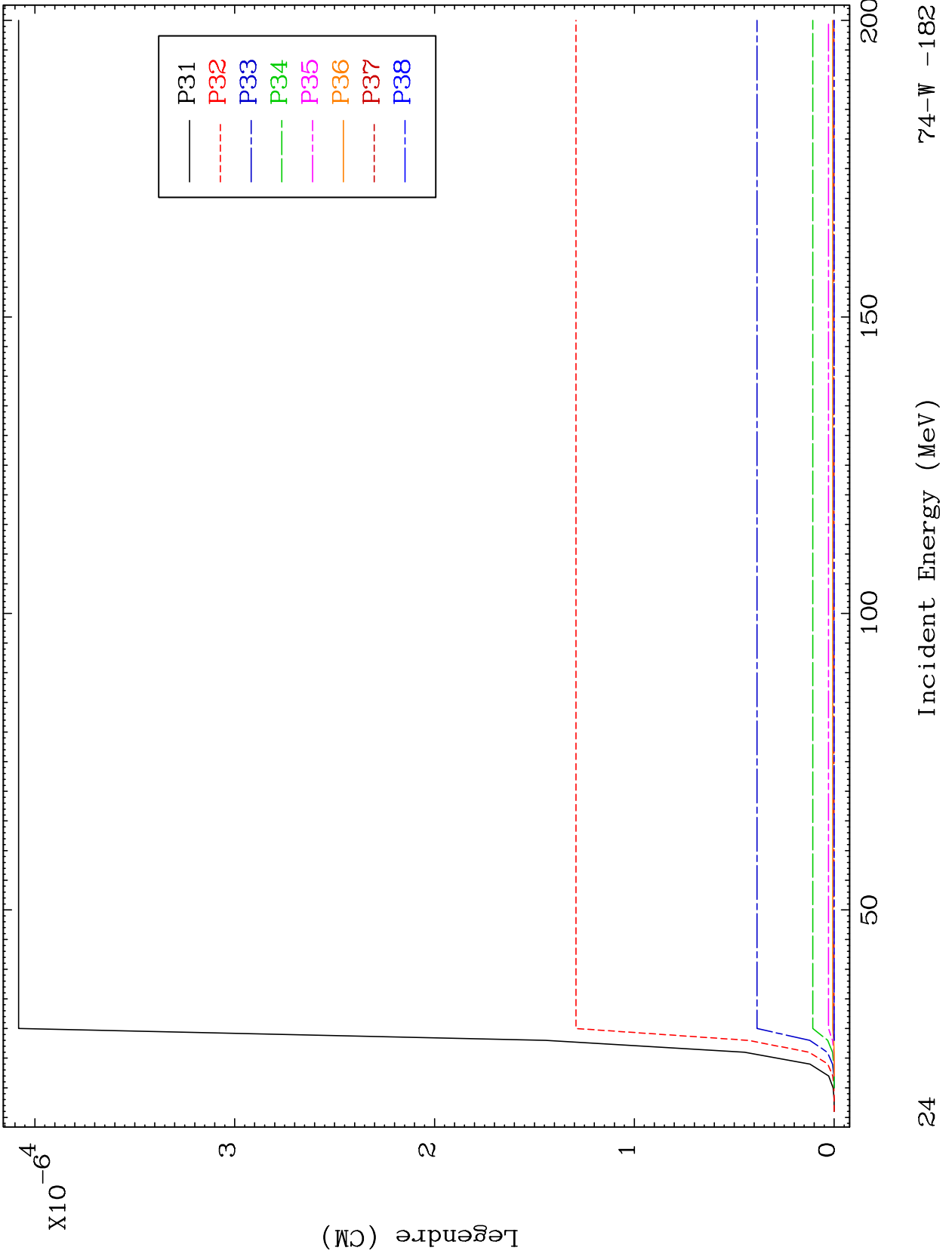




MAT 7431

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

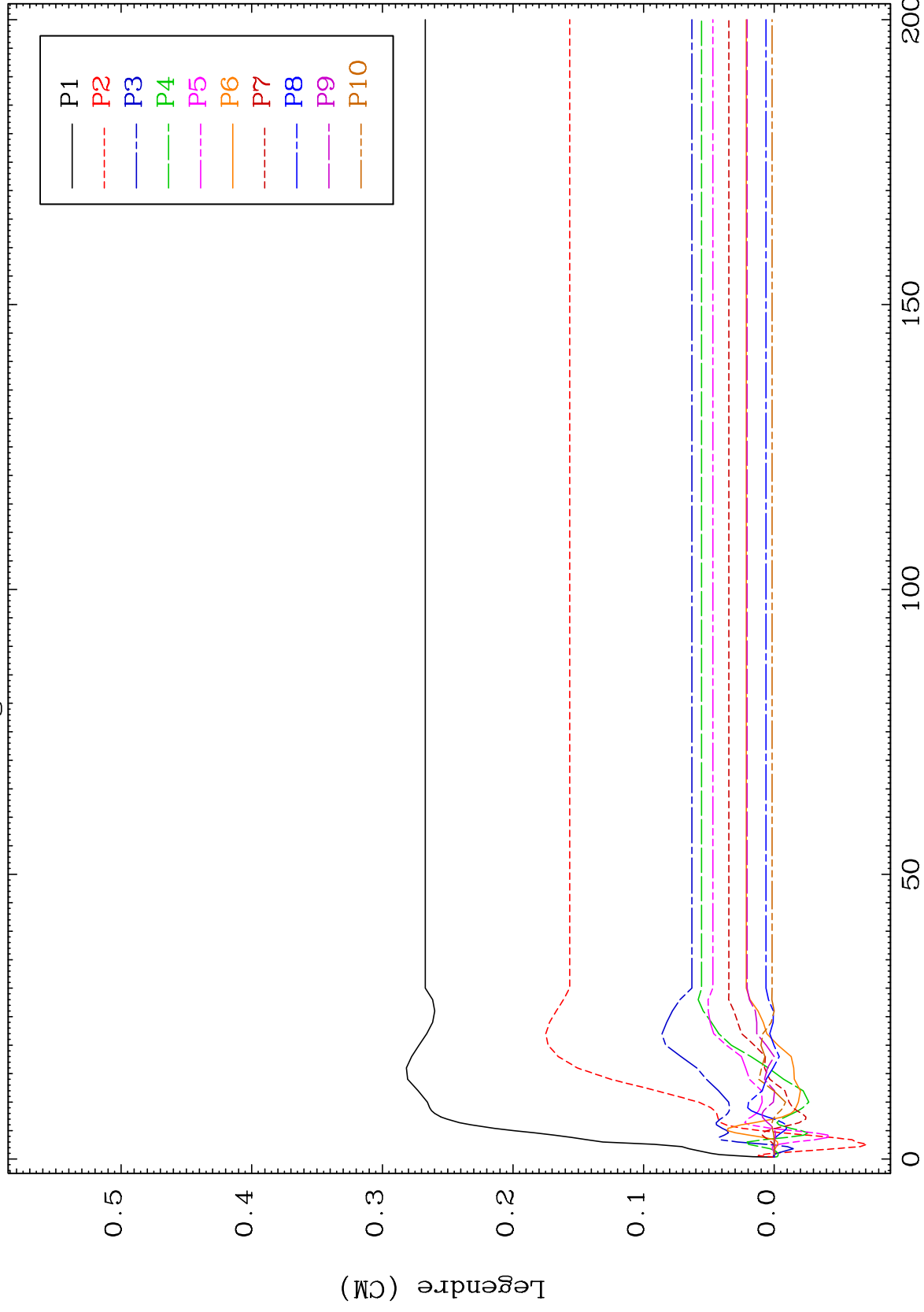
74-W -182



MAT 7431

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

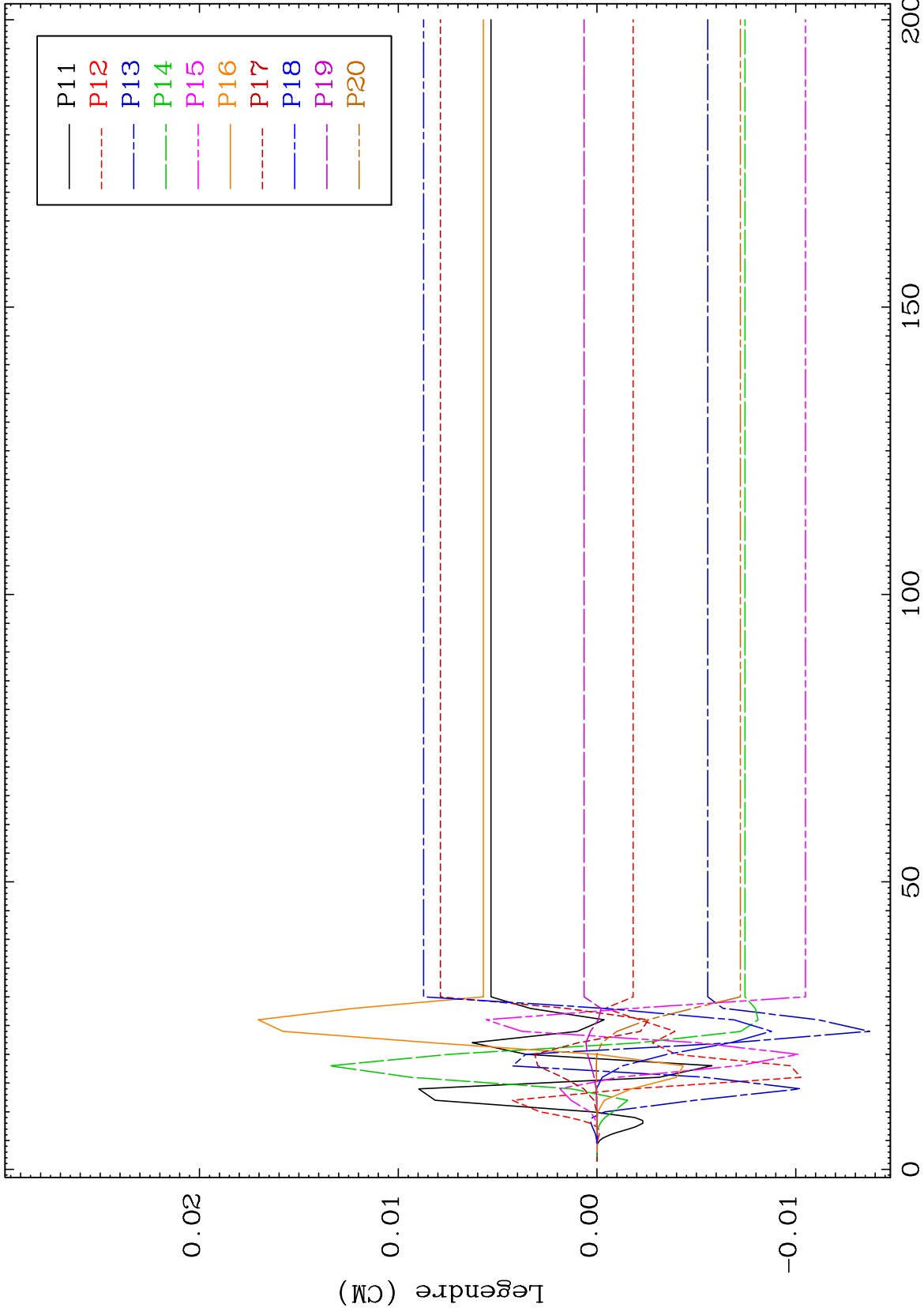
74-W -182

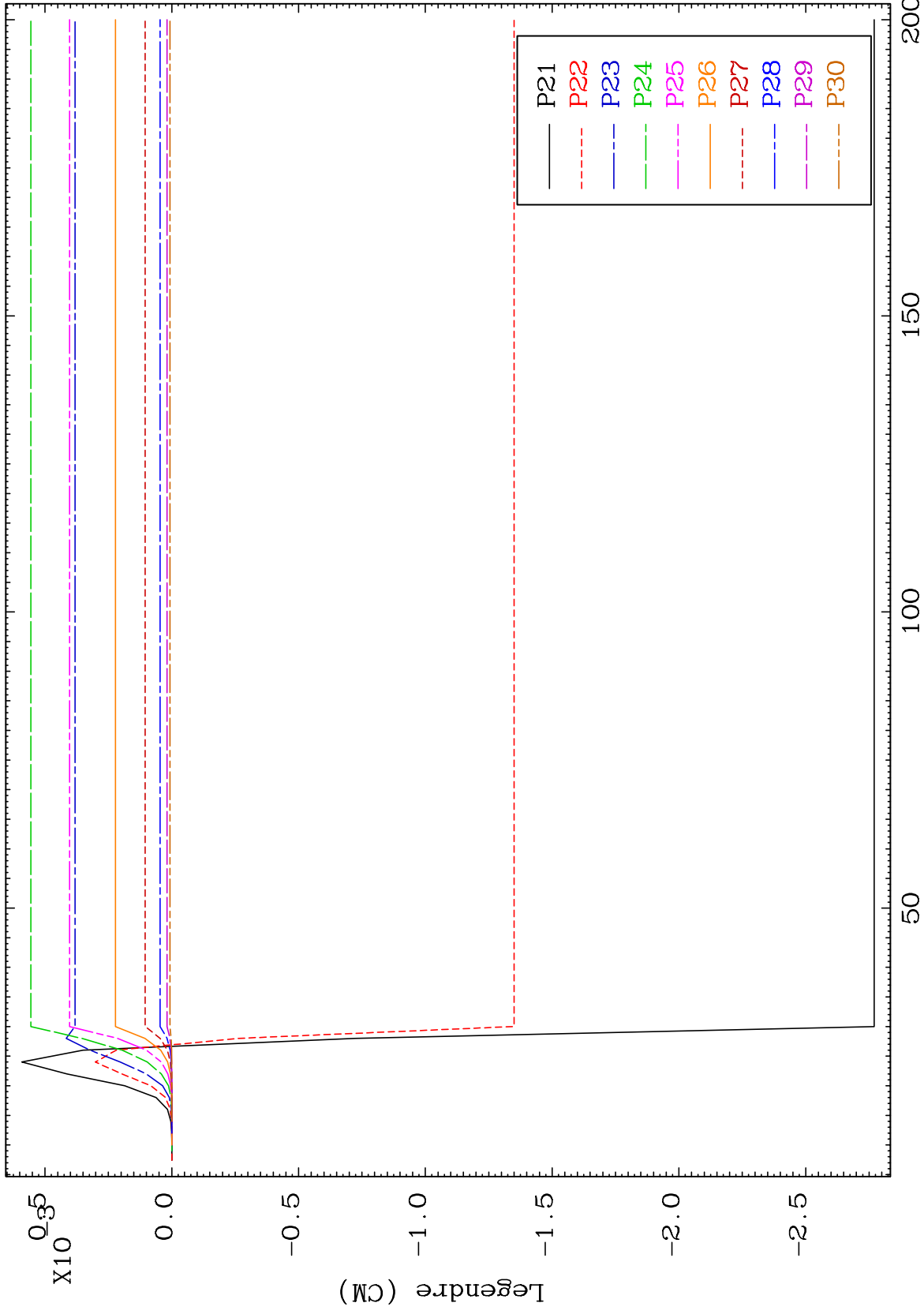


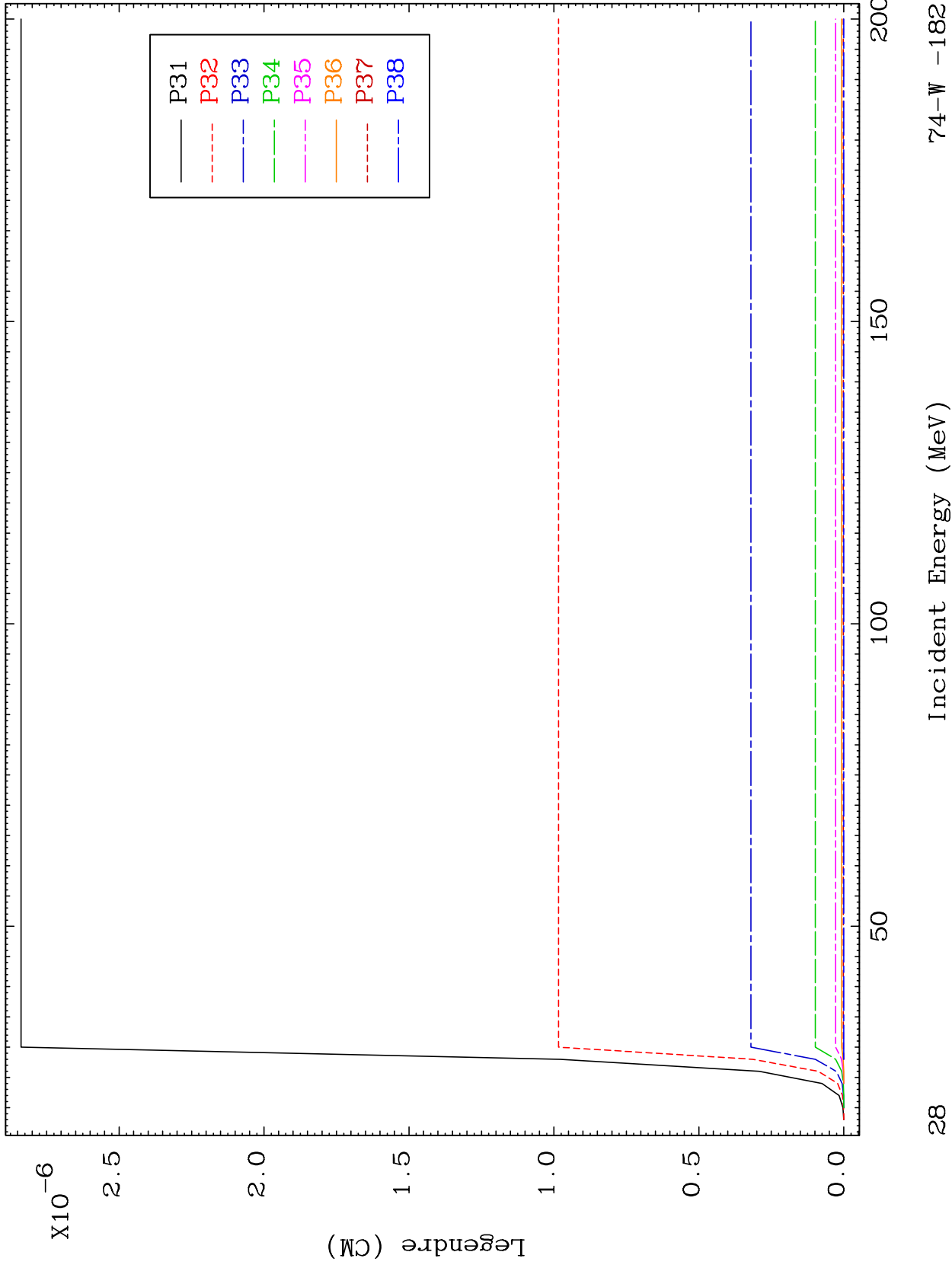
25

Incident Energy (MeV)

74-W -182



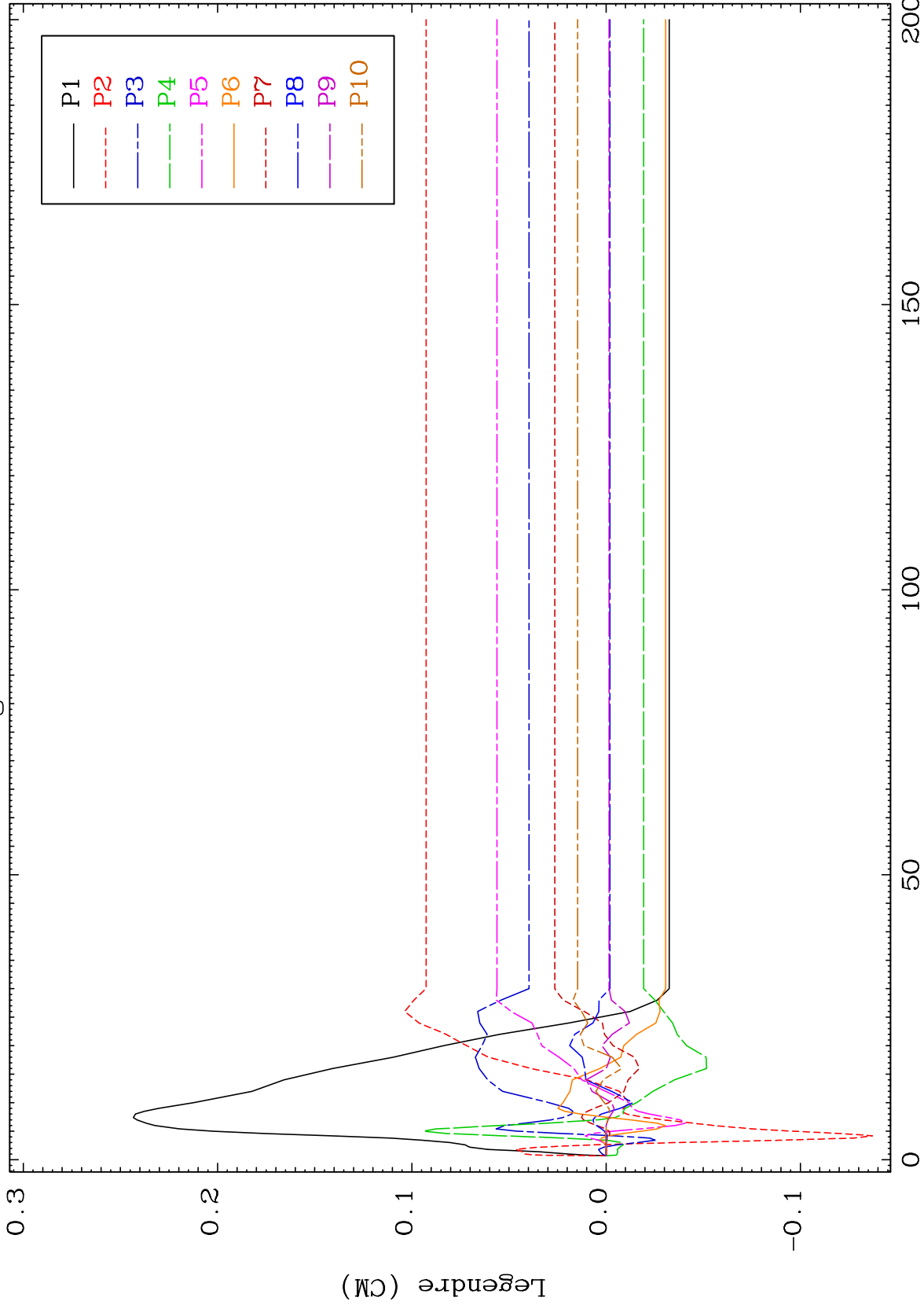




MAT 7431

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

74-W -182



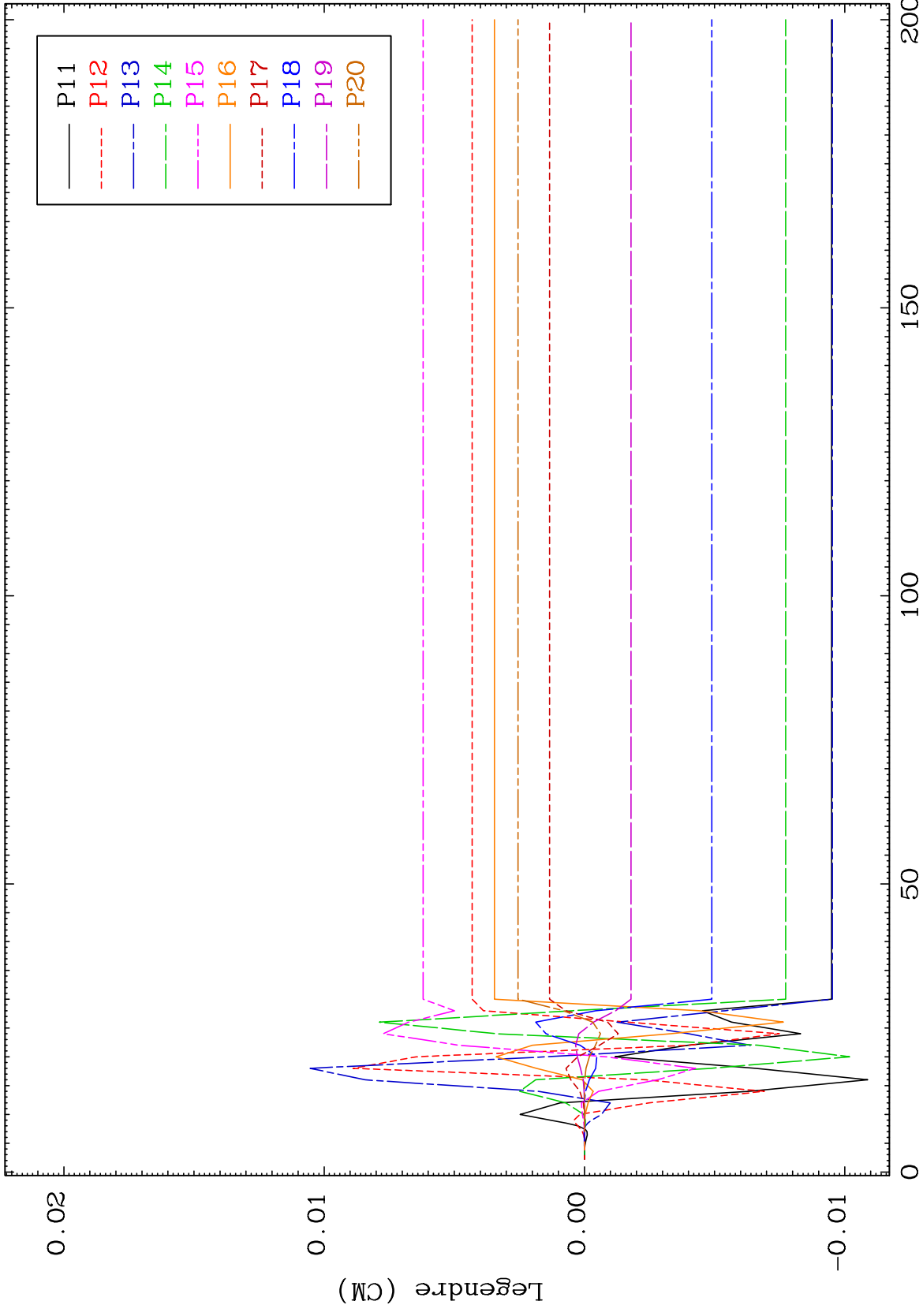
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74-W -182

MAT 7431

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

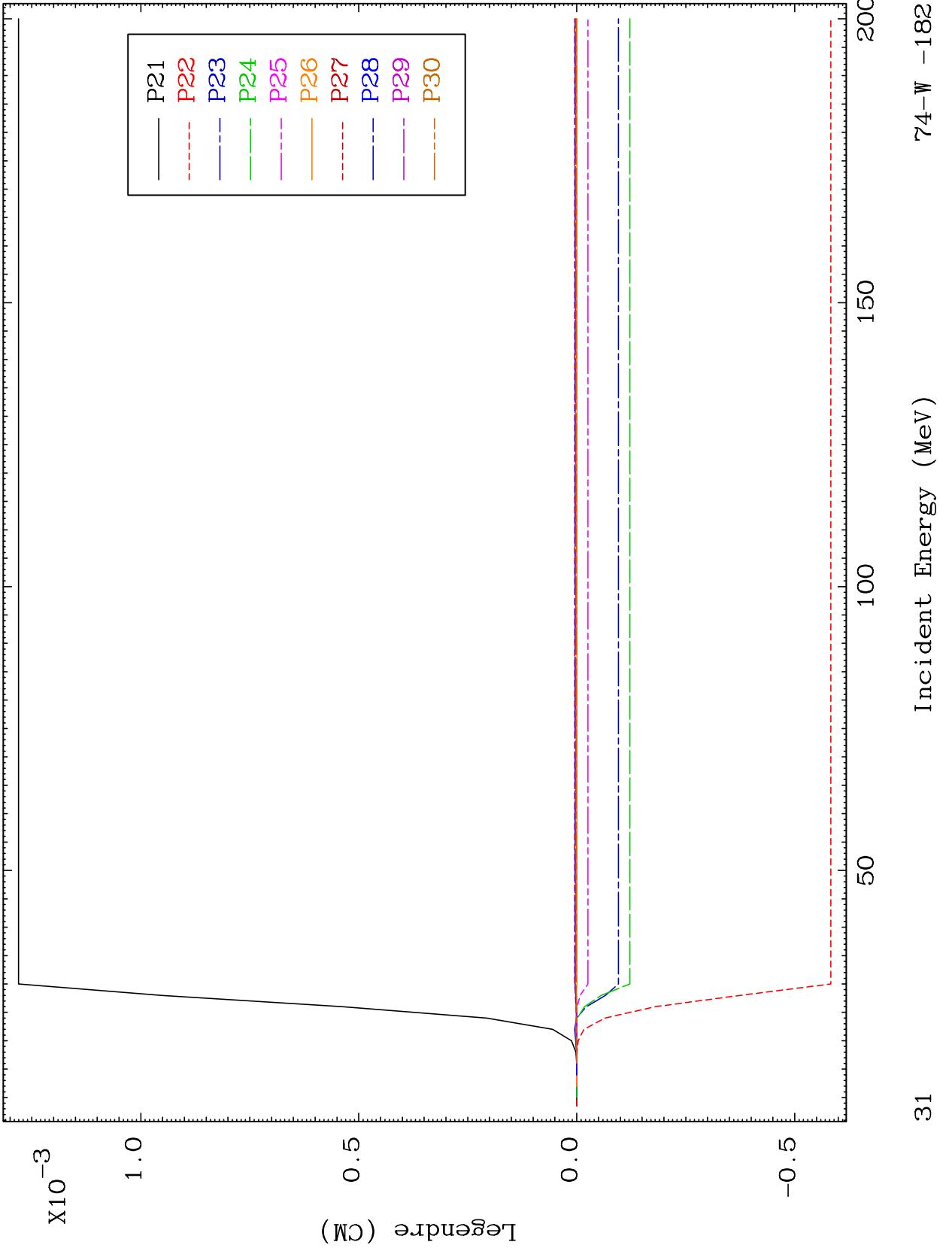
74-W -182

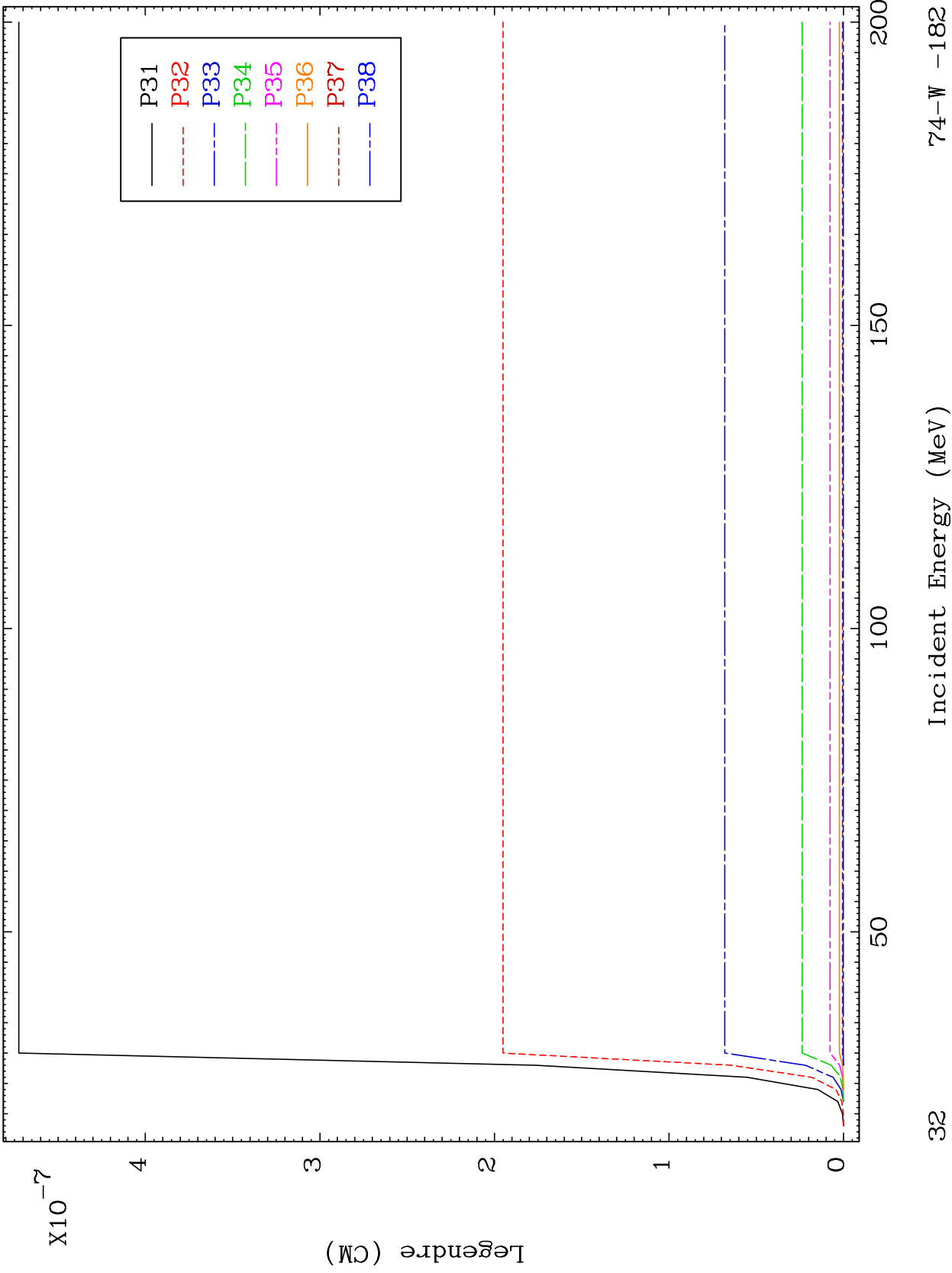


30

Incident Energy (MeV)

74-W -182

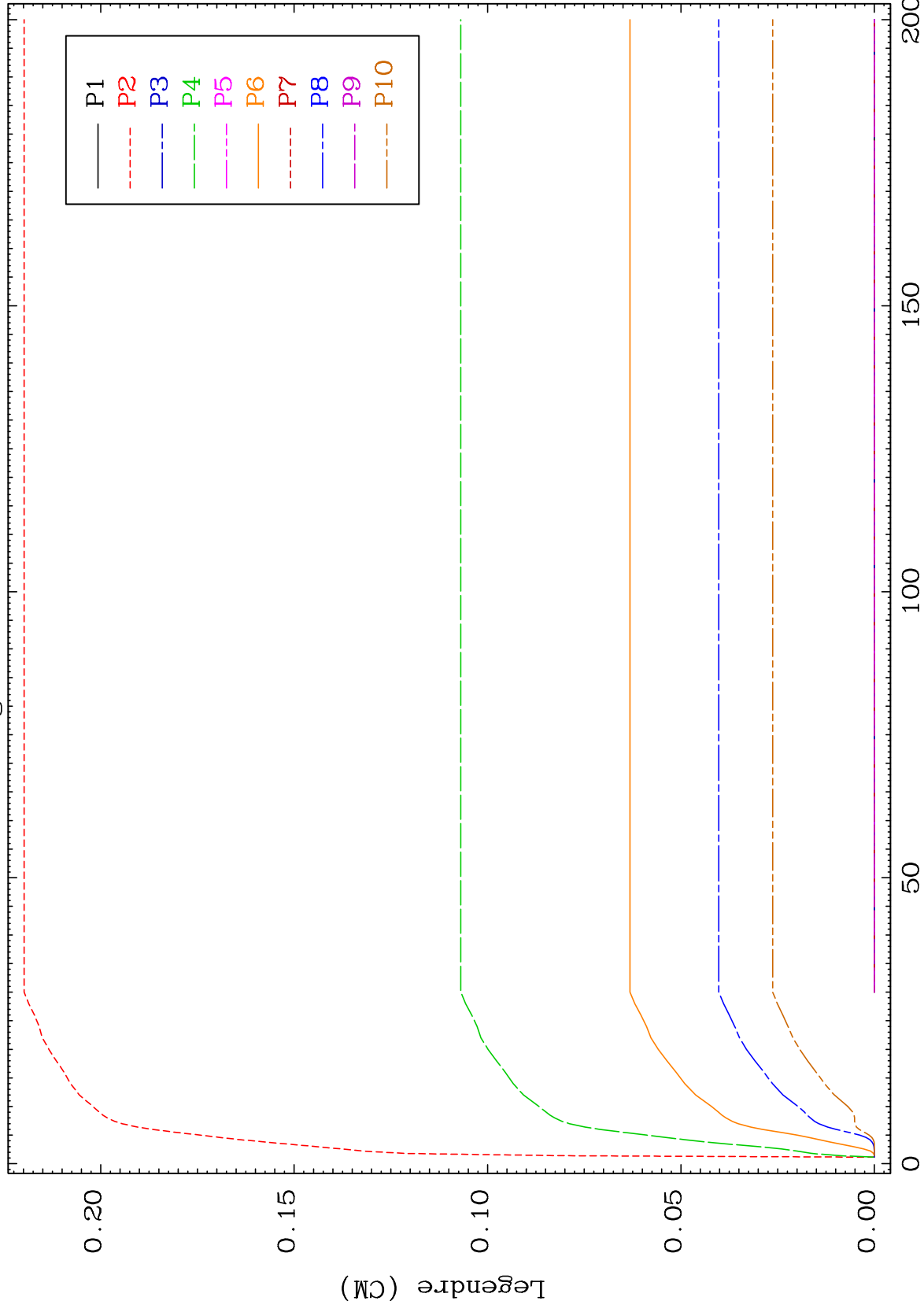




MAT 7431

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

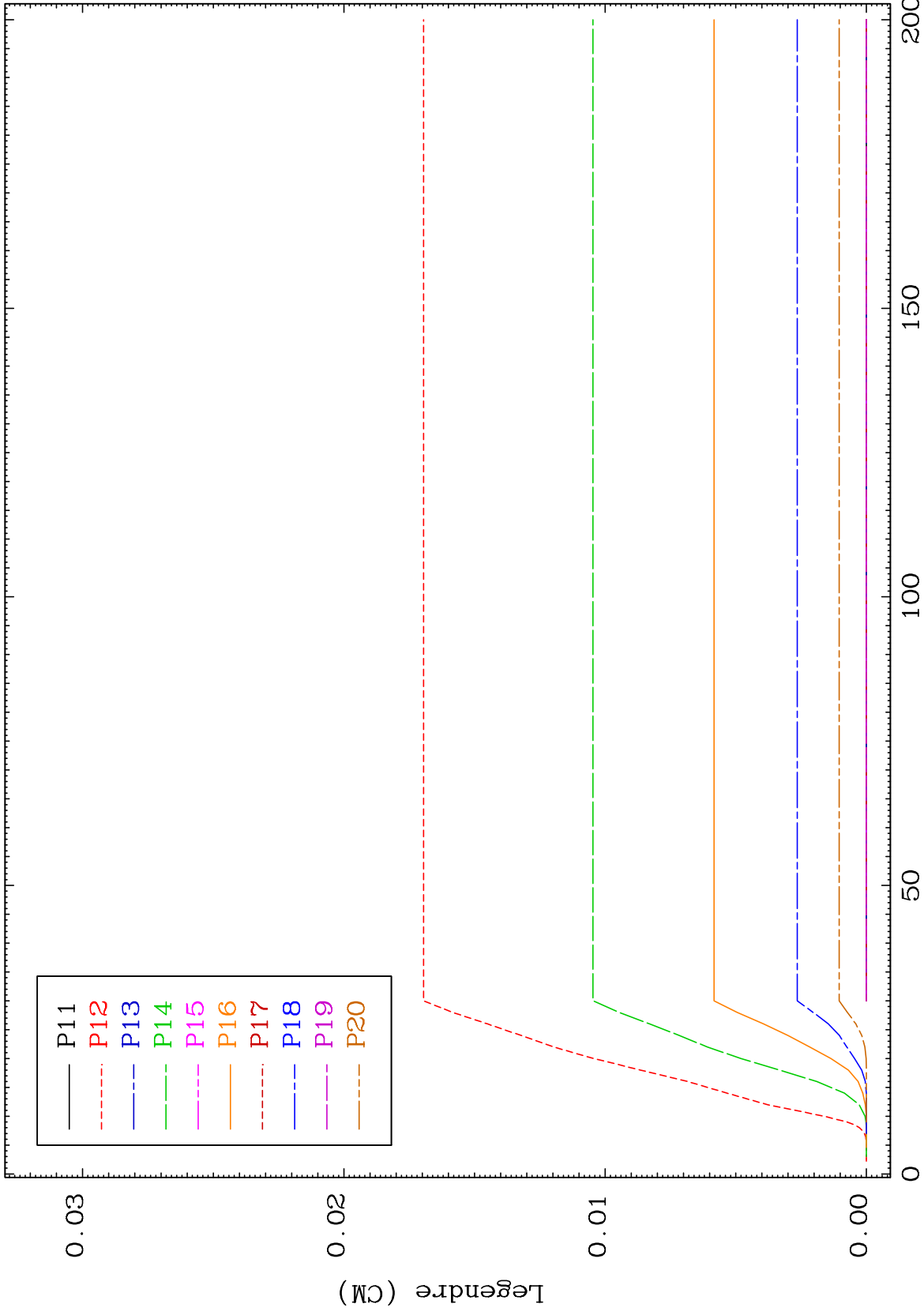
74-W -182



33

Incident Energy (MeV)

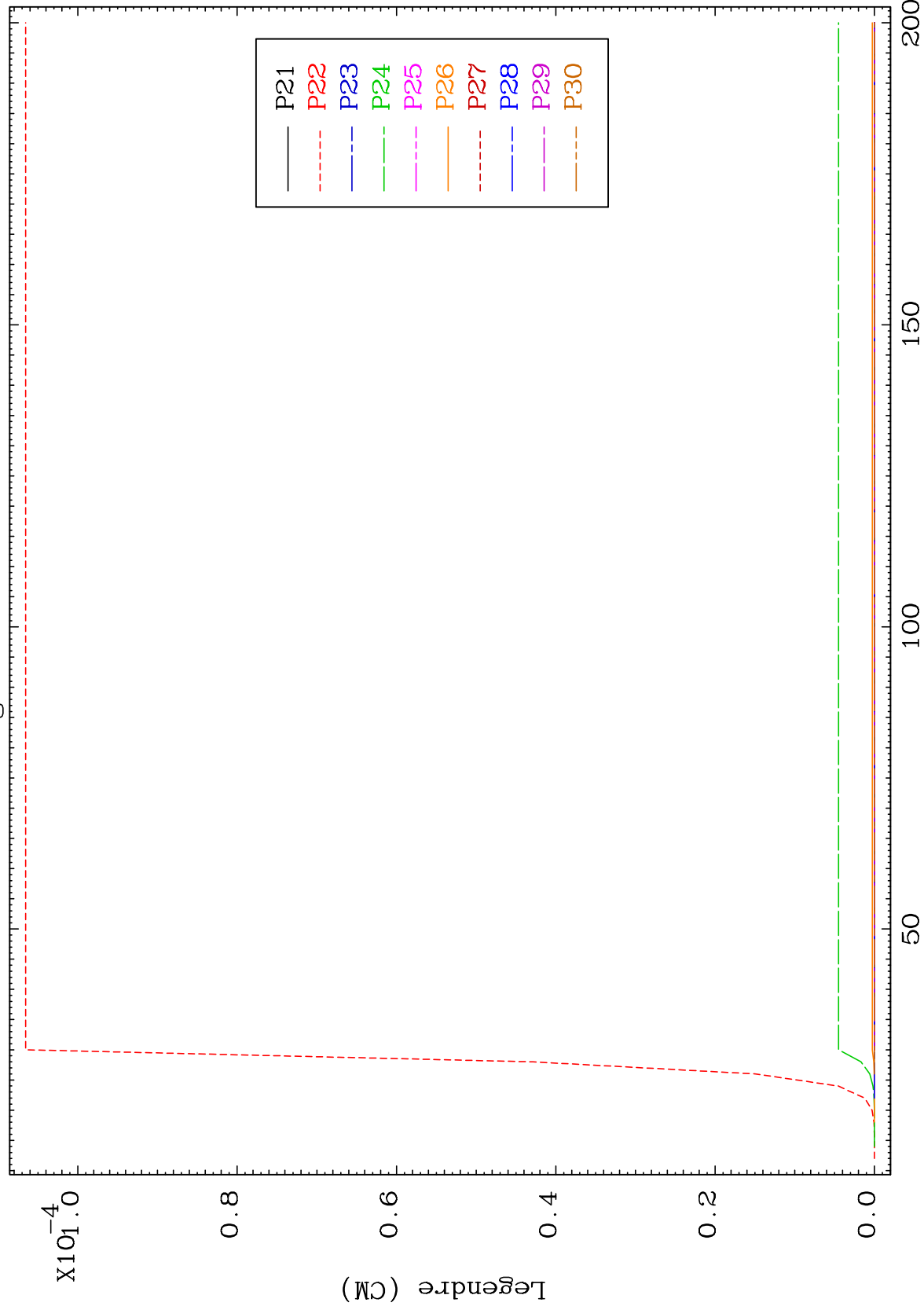
74-W -182



MAT 7431

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

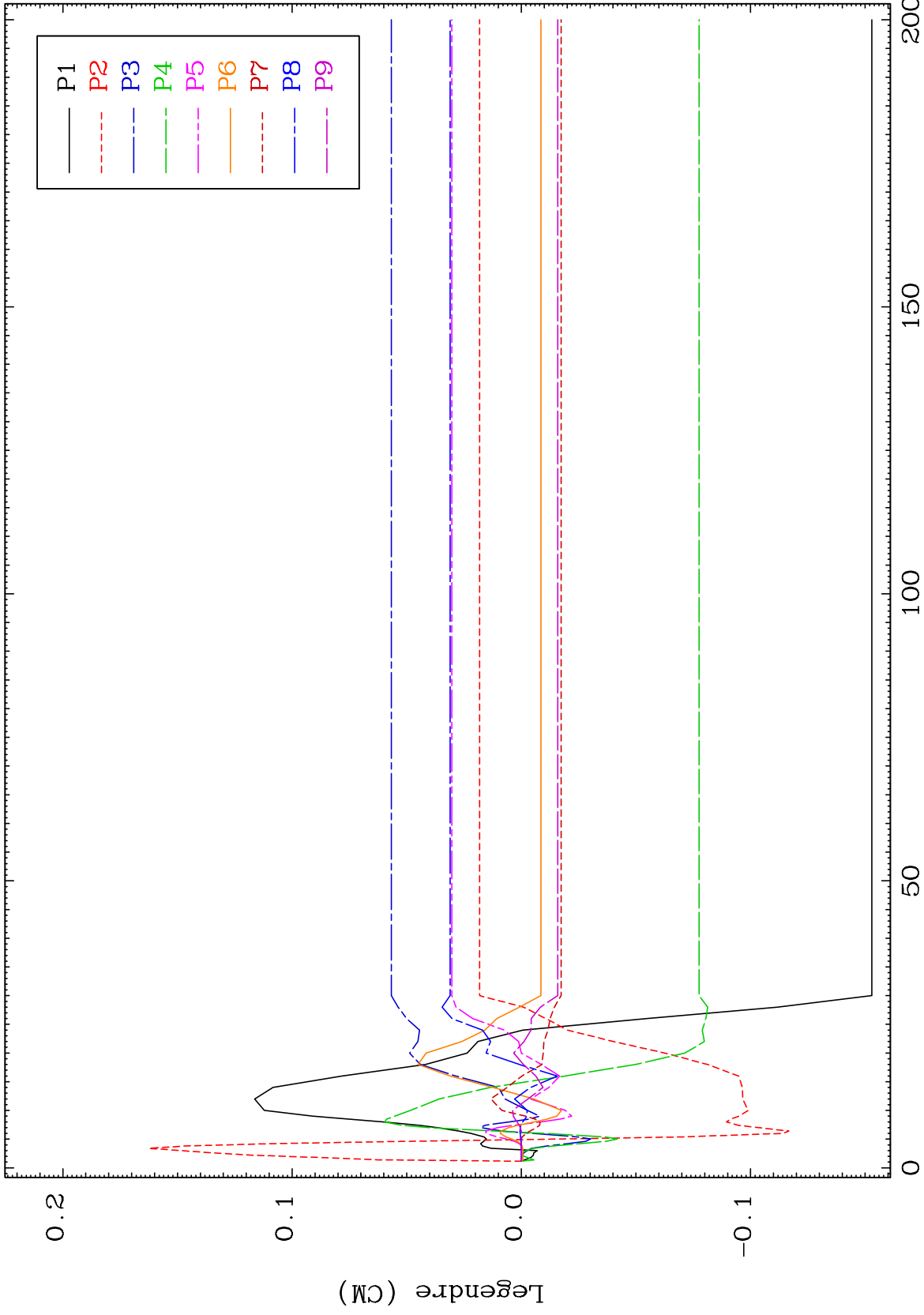
74-W -182



74-W -182

Incident Energy (MeV)

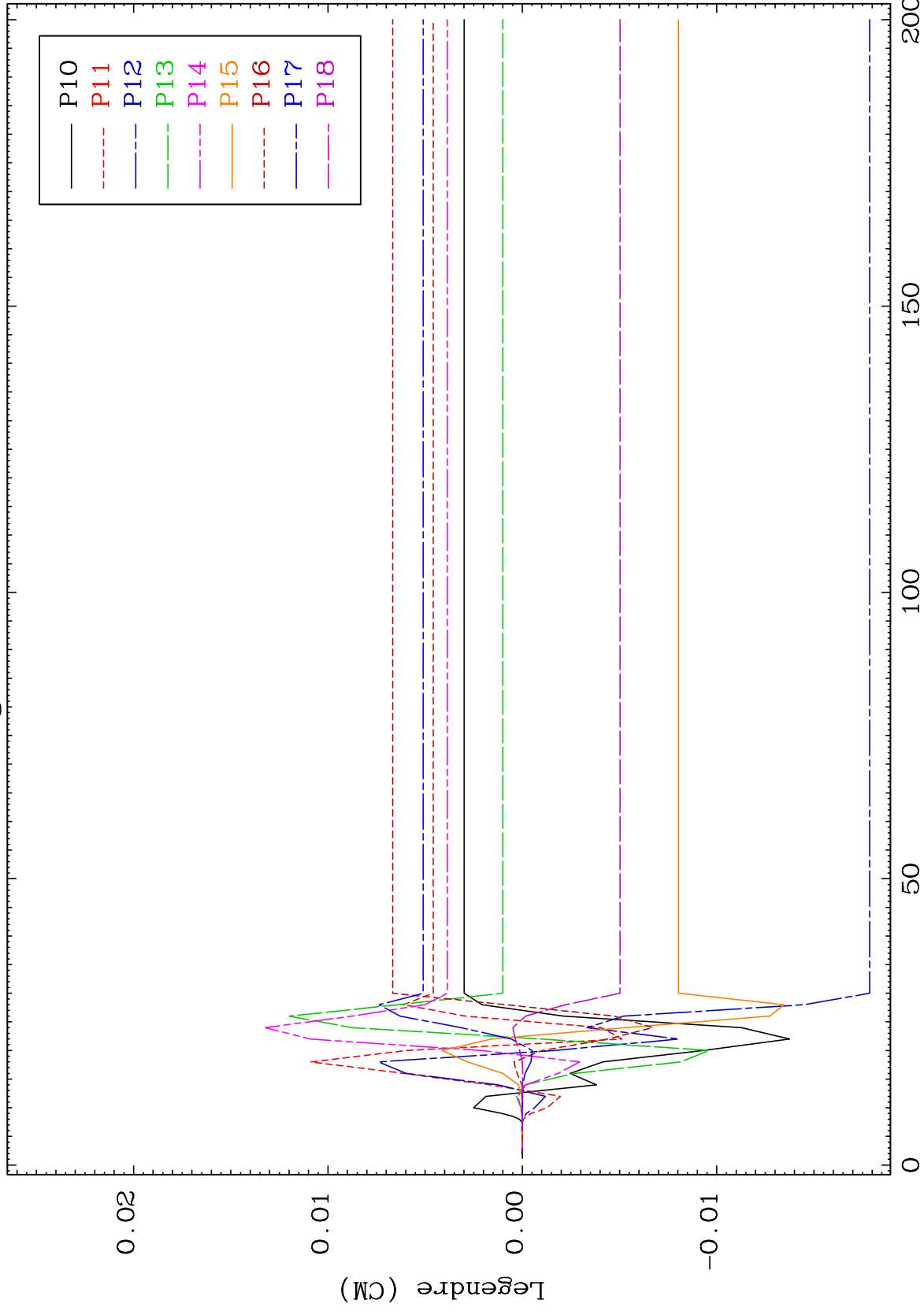
35



MAT 7431

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

74-W -182



37

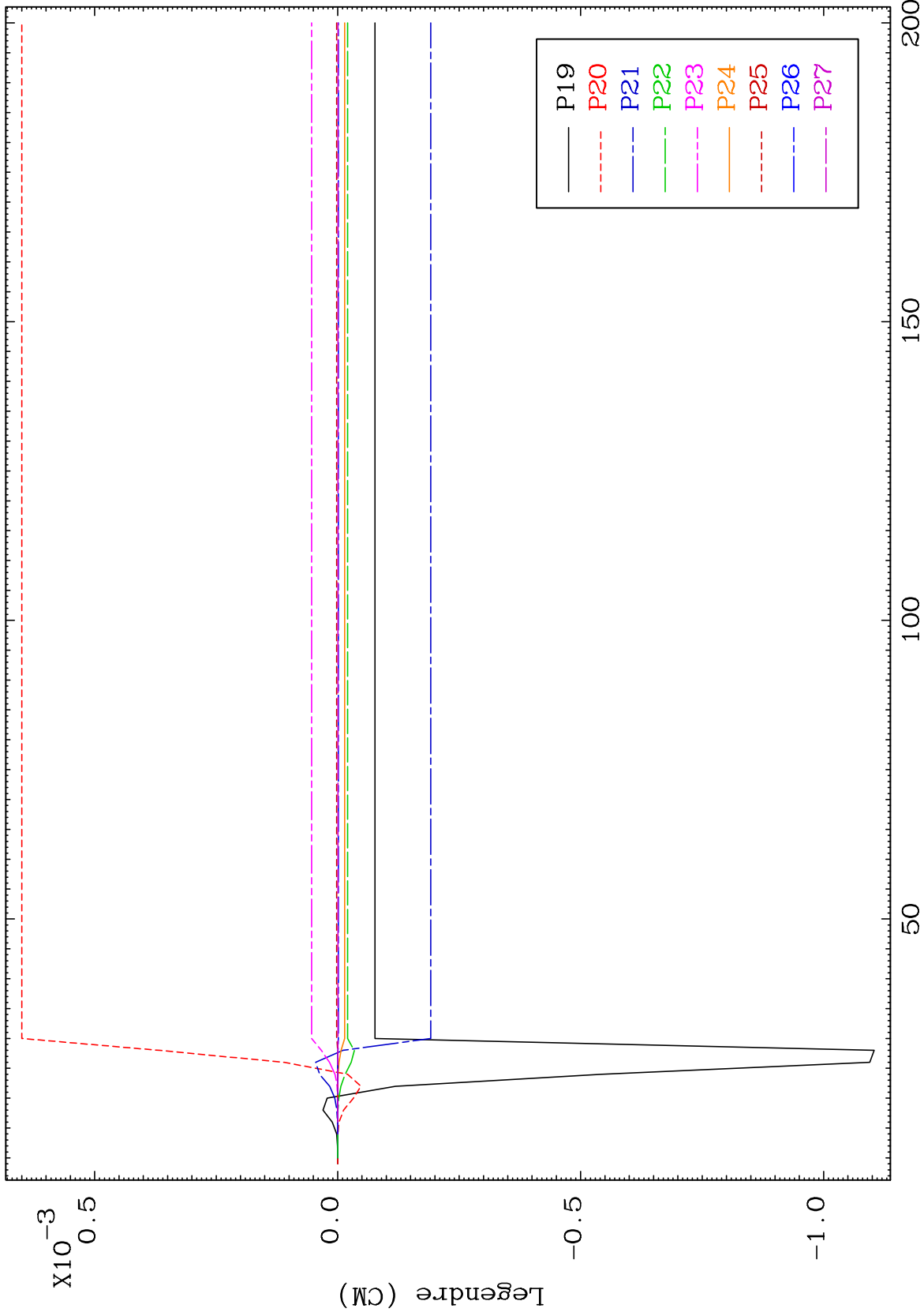
Incident Energy (MeV)

74-W -182

MAT 7431

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

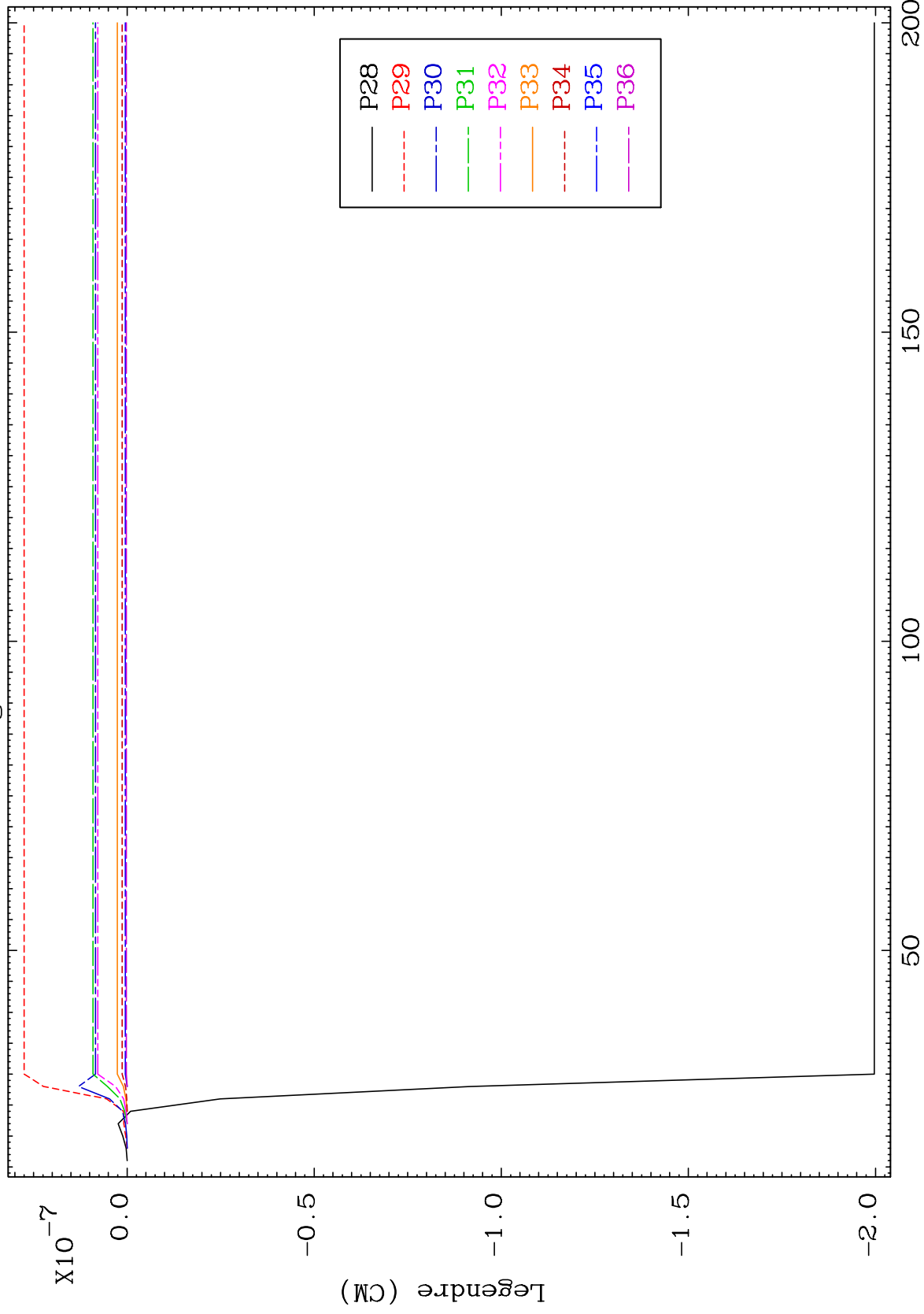
74-W -182



38

Incident Energy (MeV)

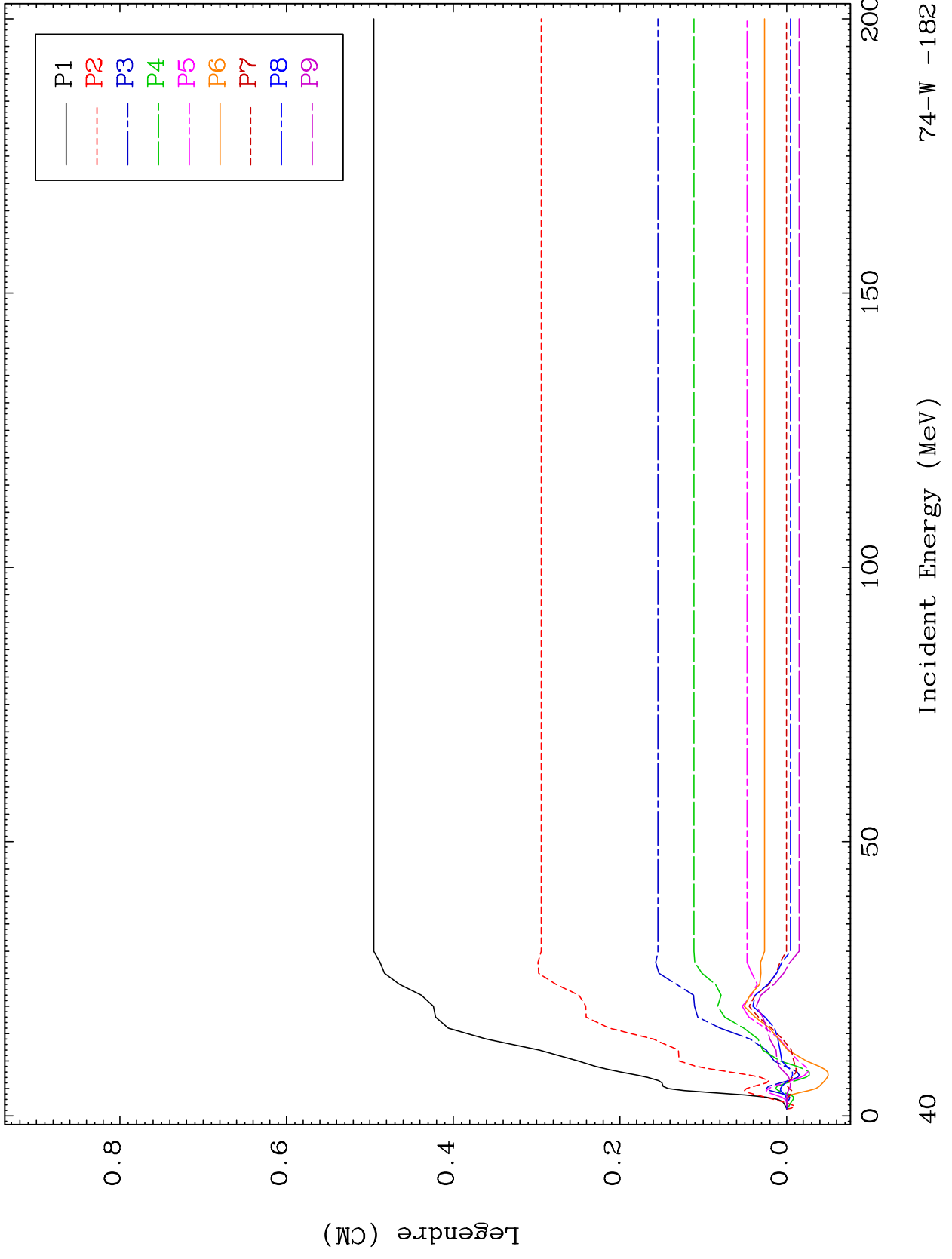
74-W -182



MAT 7431

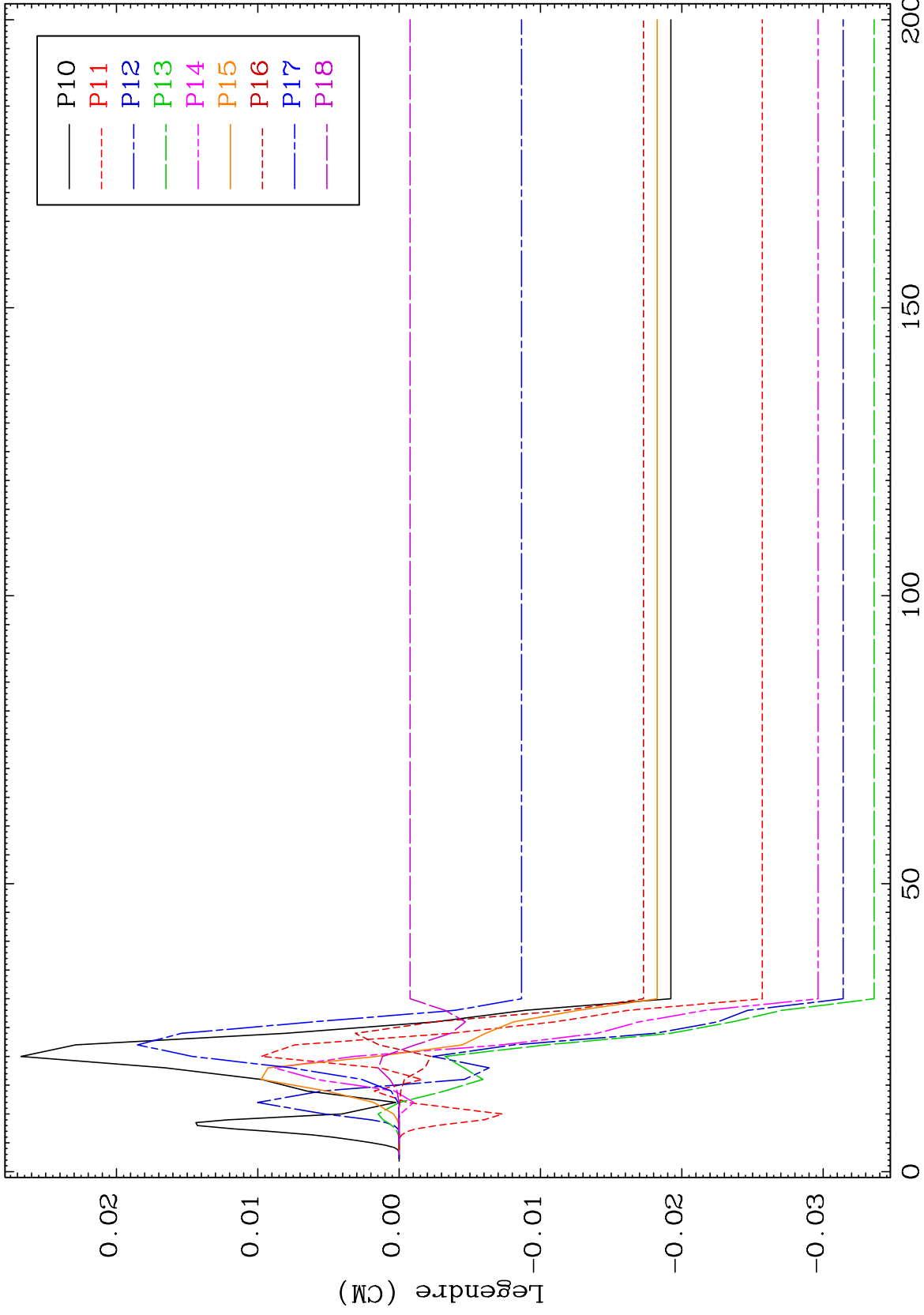
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Legendre Coefficients

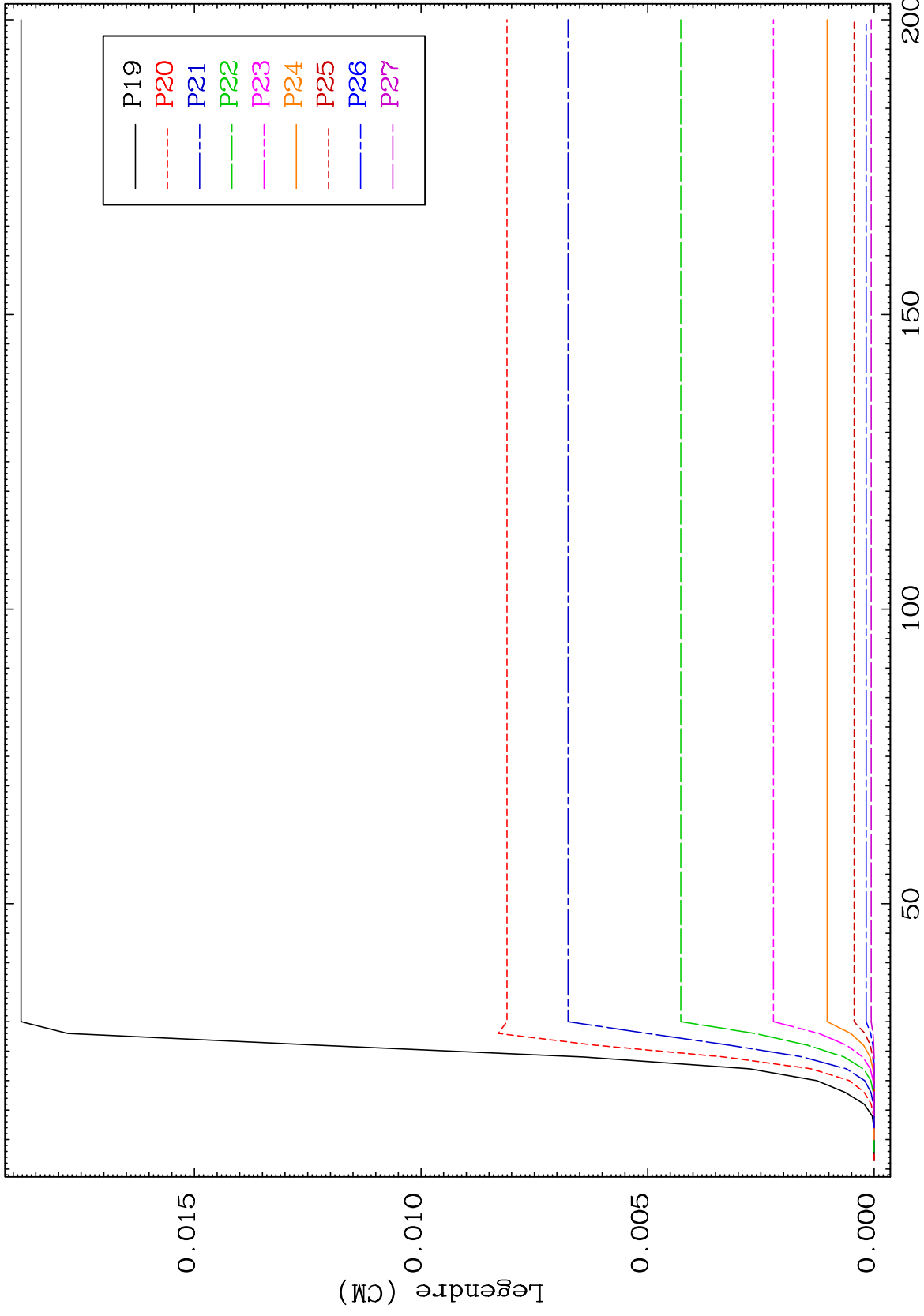
74-W -182

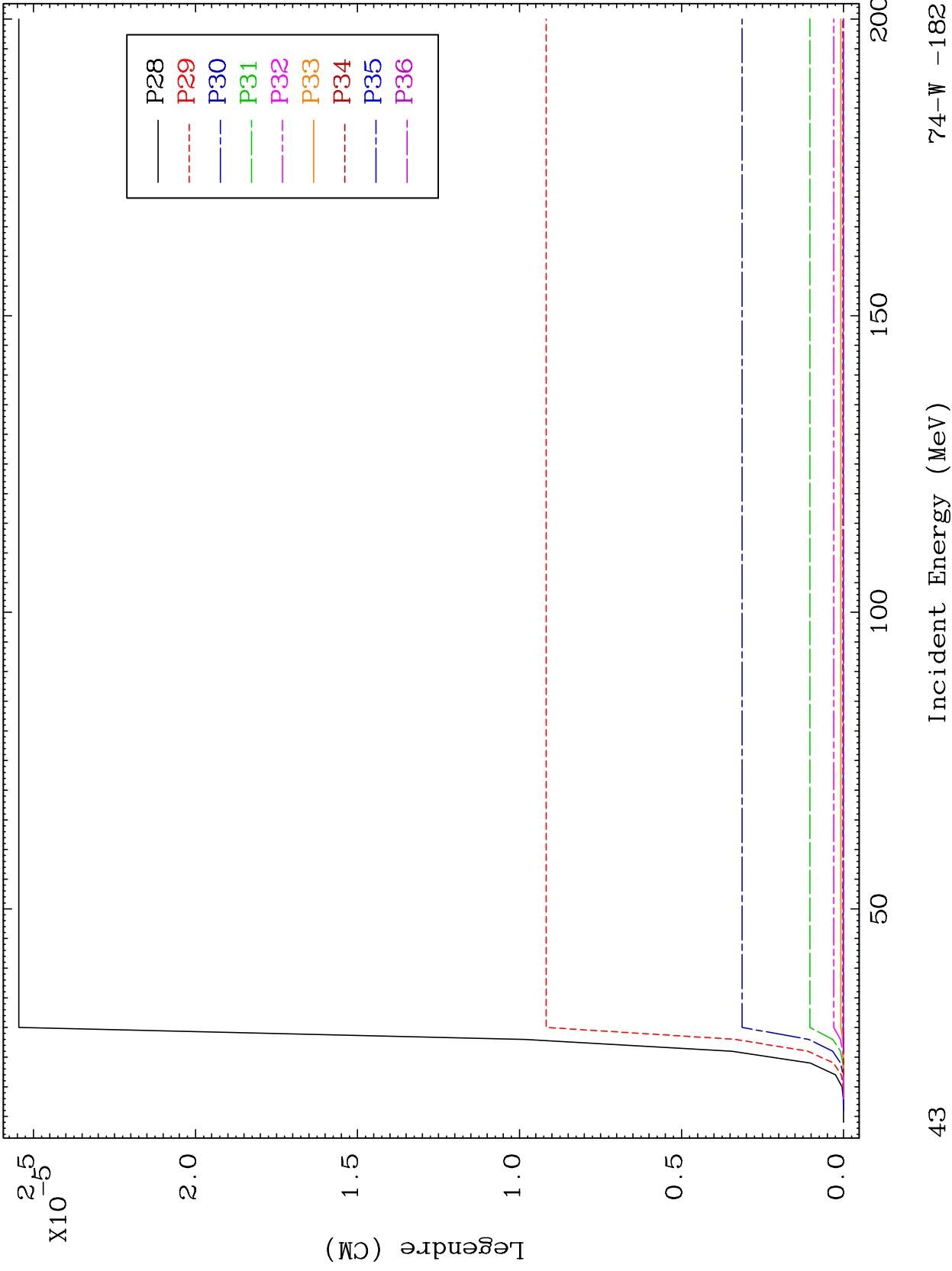


74-W -182

Incident Energy (MeV)



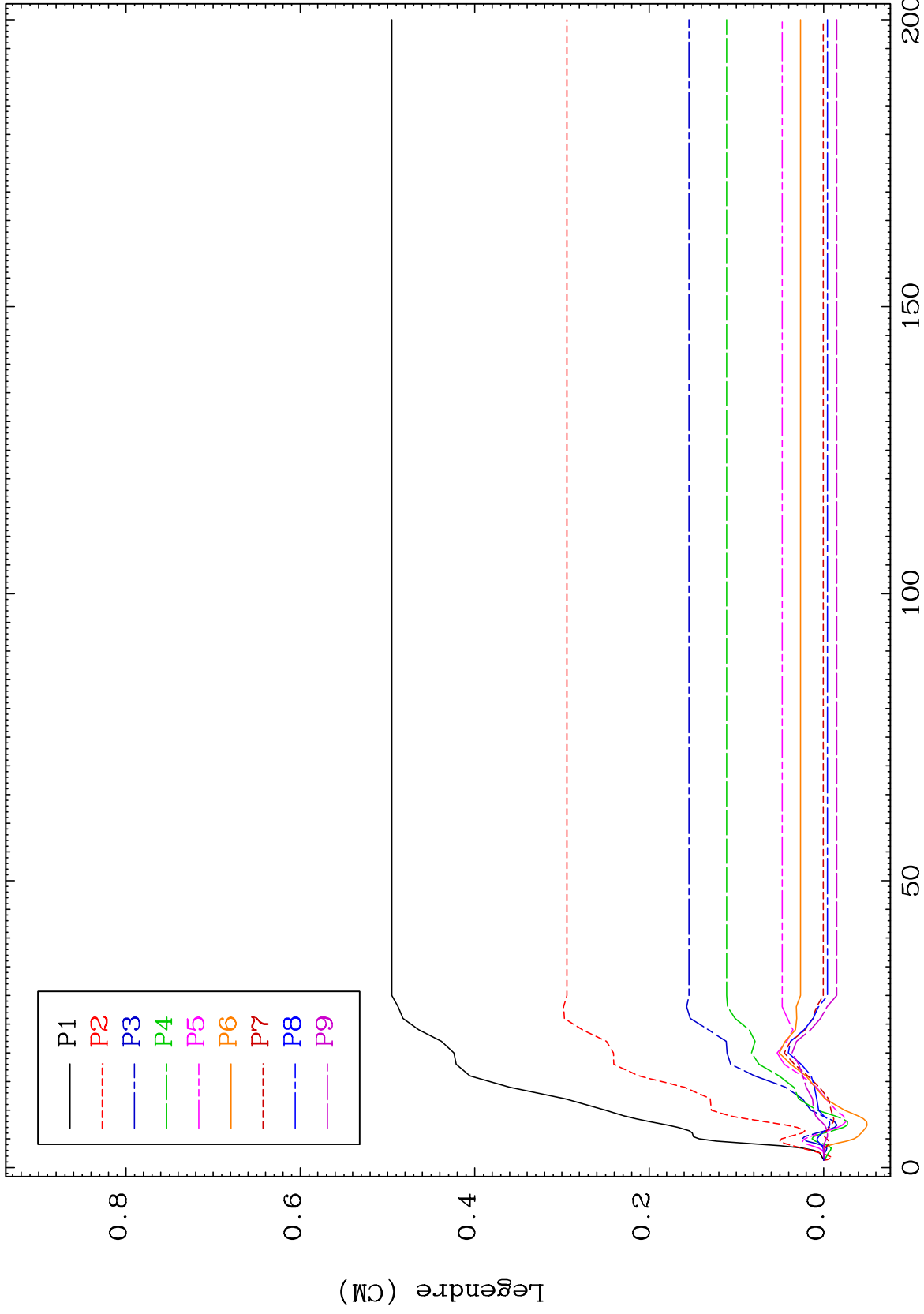




MAT 7431

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

74-W -182



44

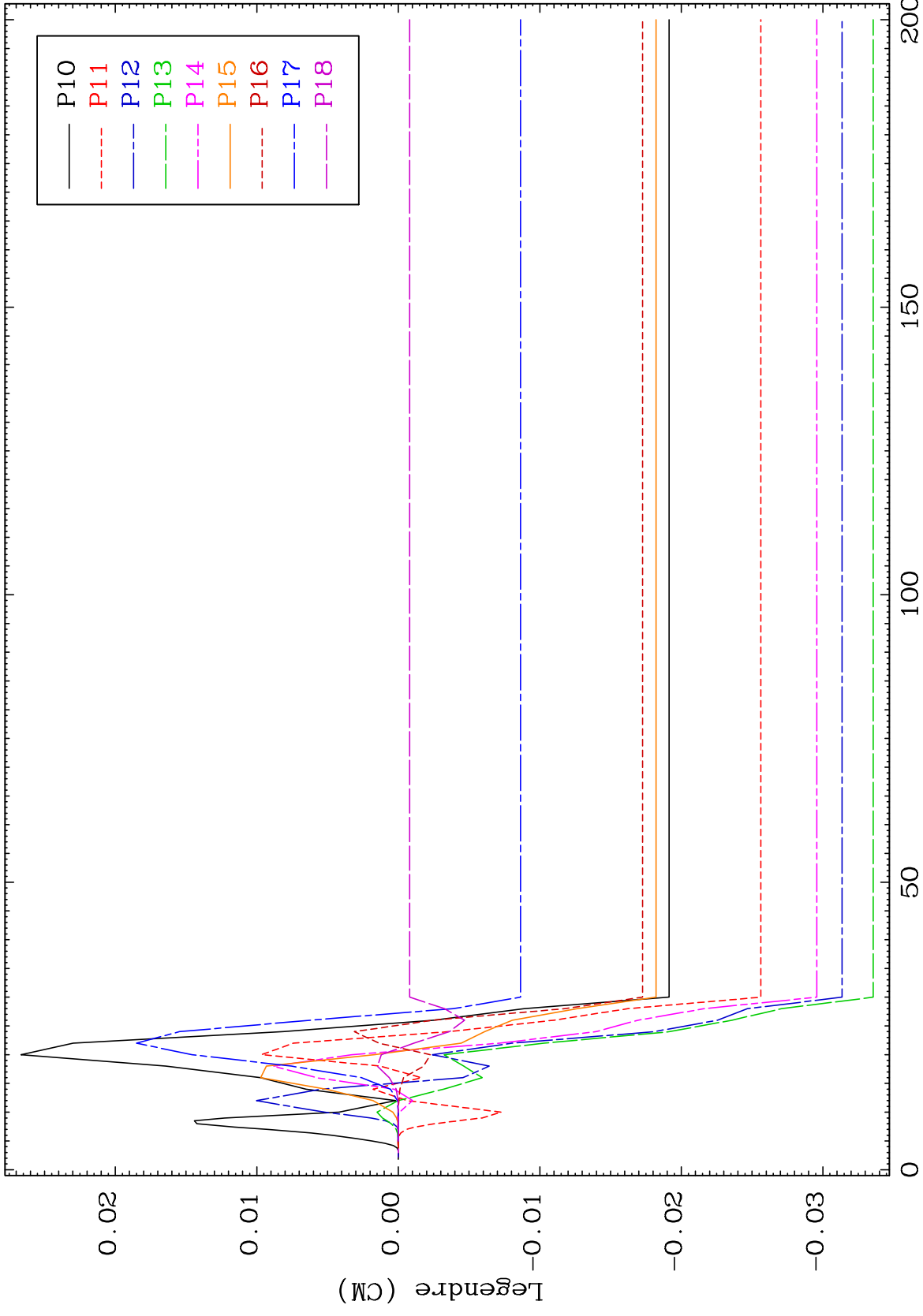
Incident Energy (MeV)

74-W -182

MAT 7431

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

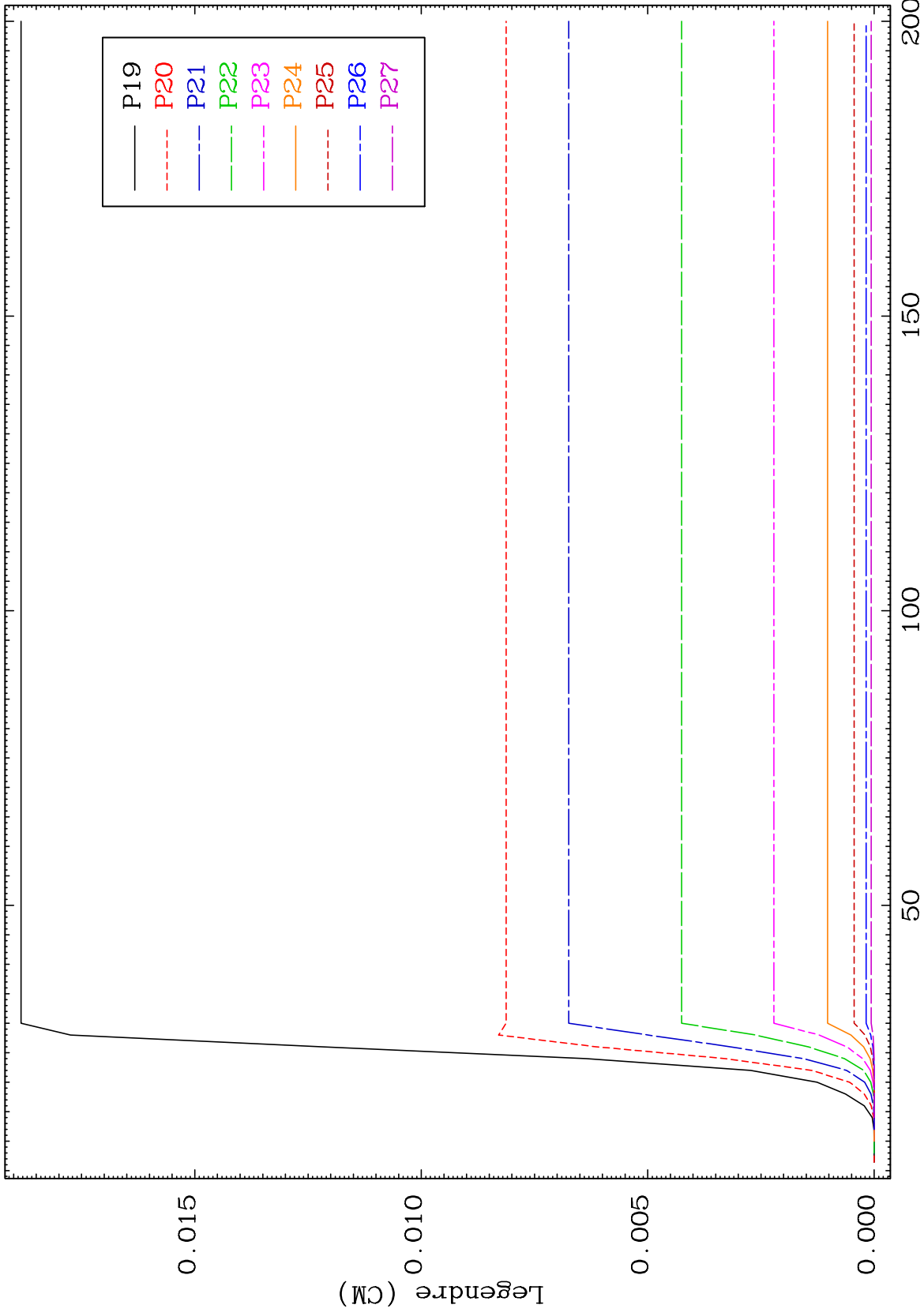
74-W -182

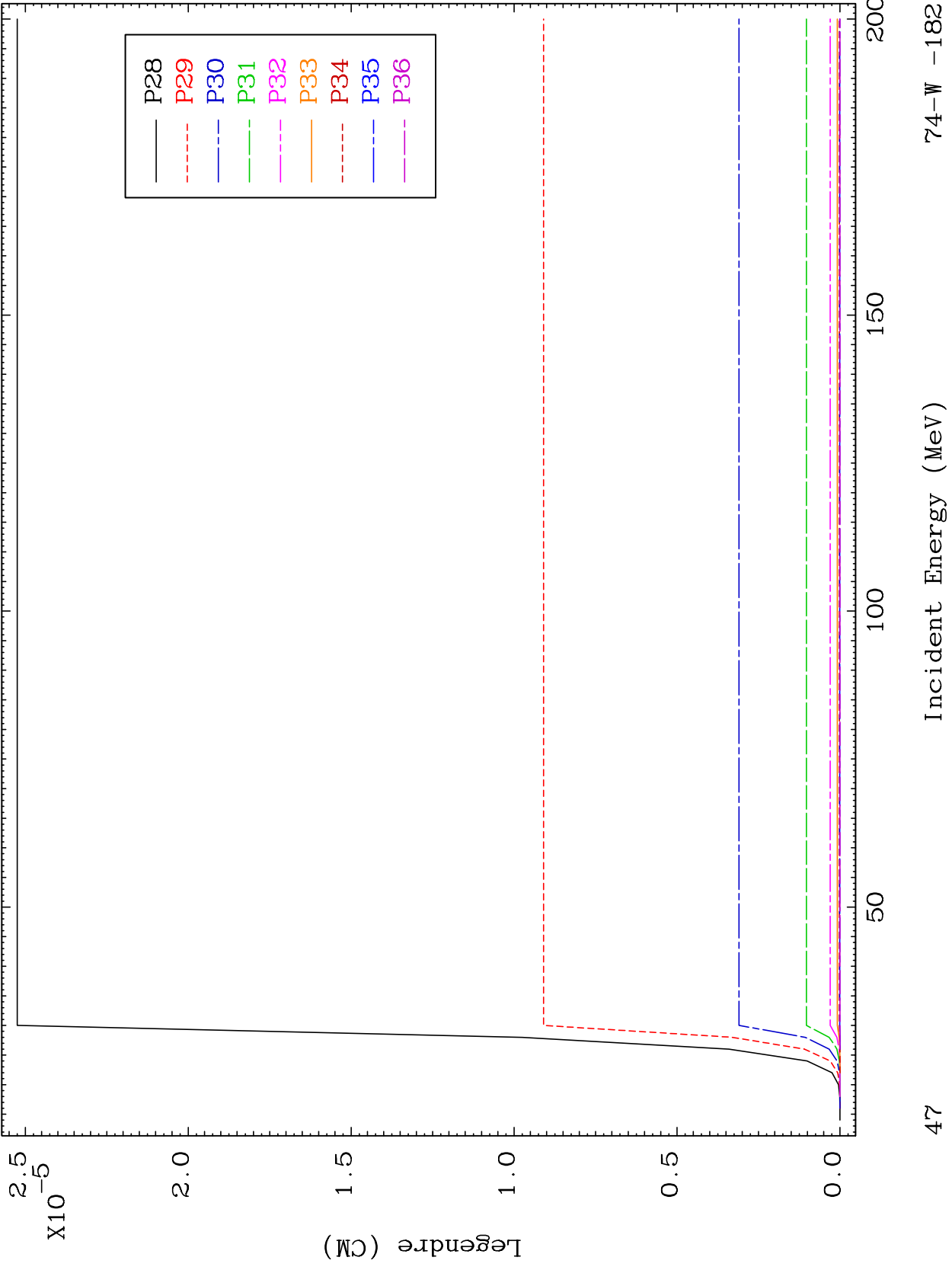


45

Incident Energy (MeV)

74-W -182

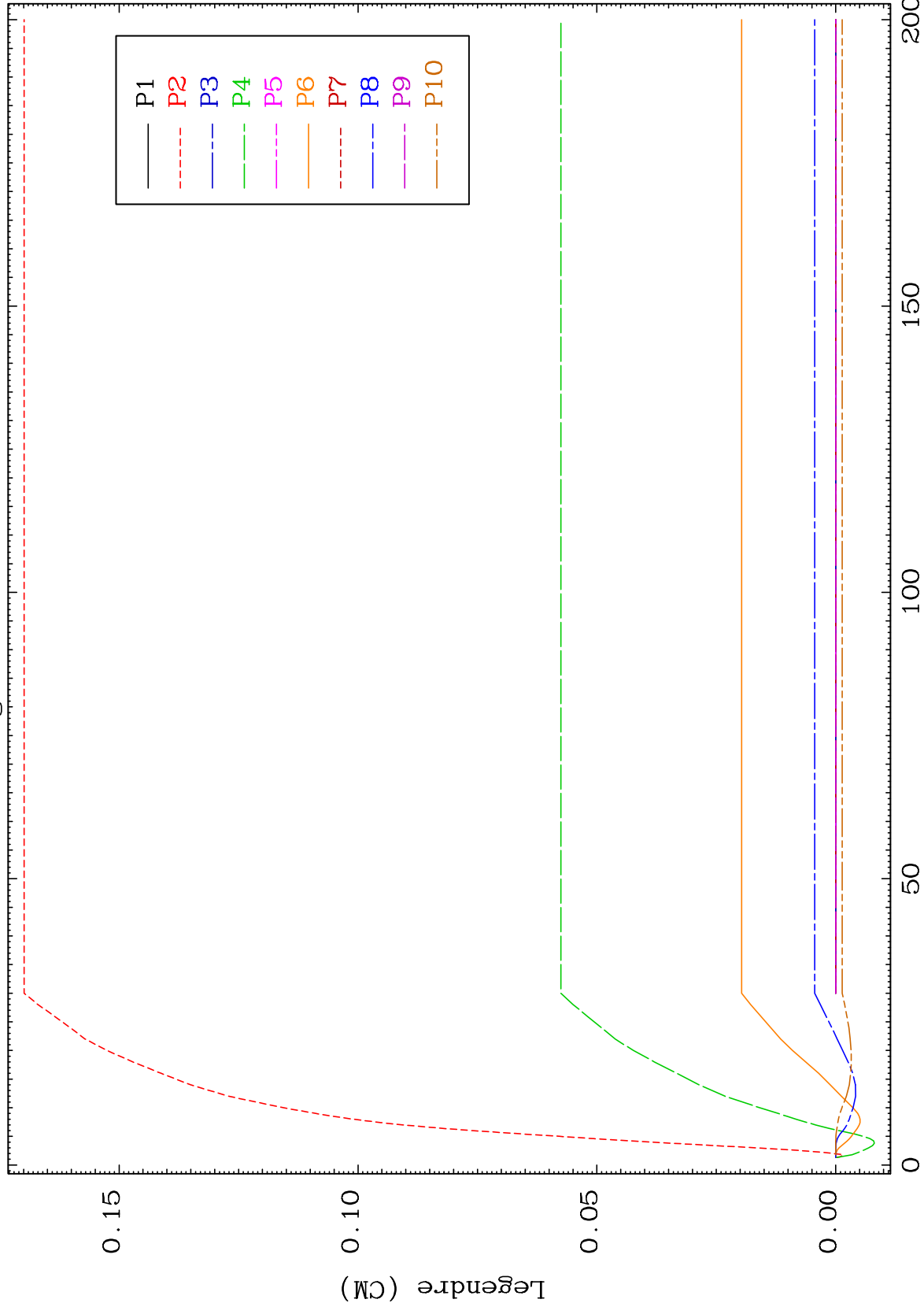




MAT 7431

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

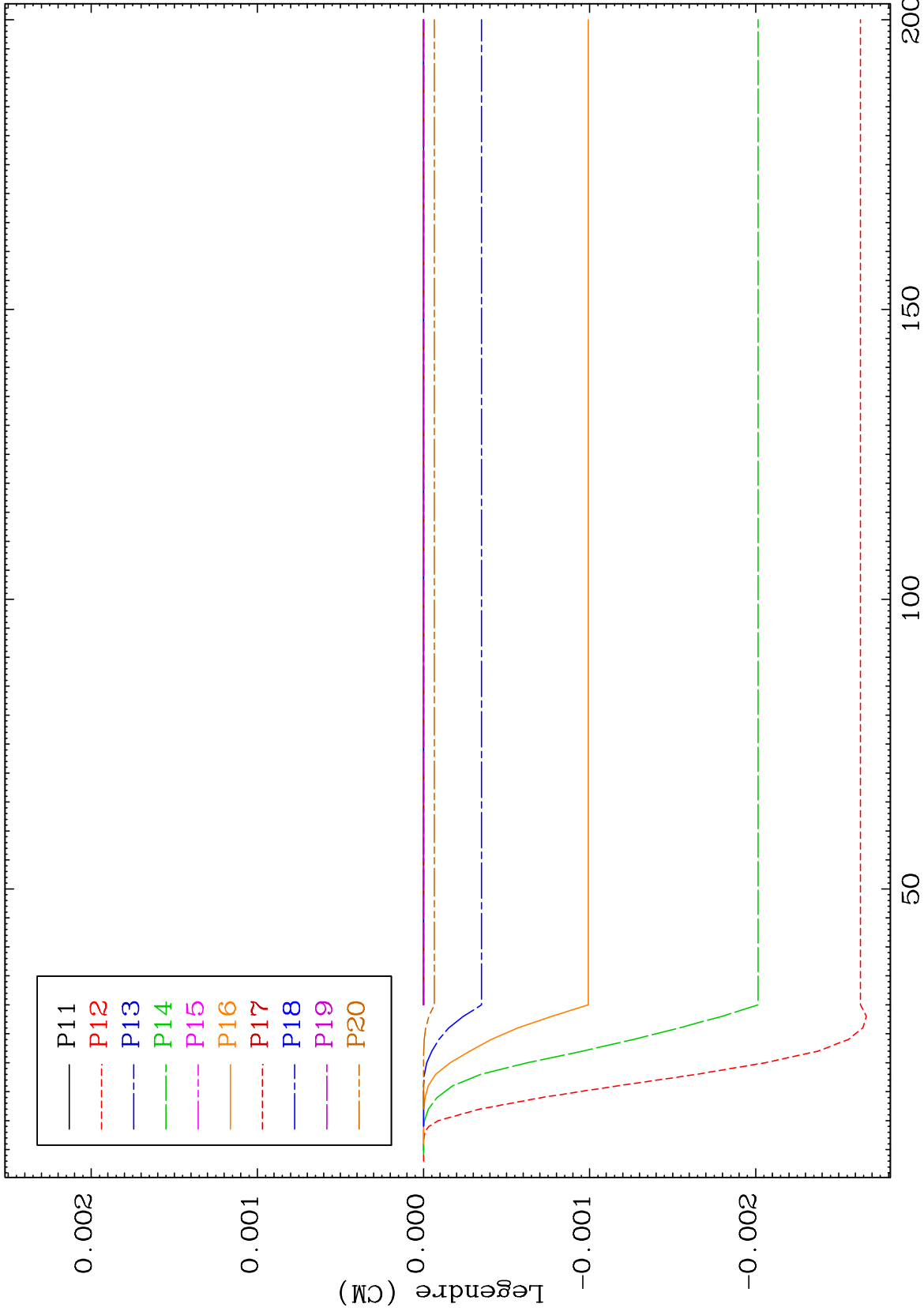
74-W -182

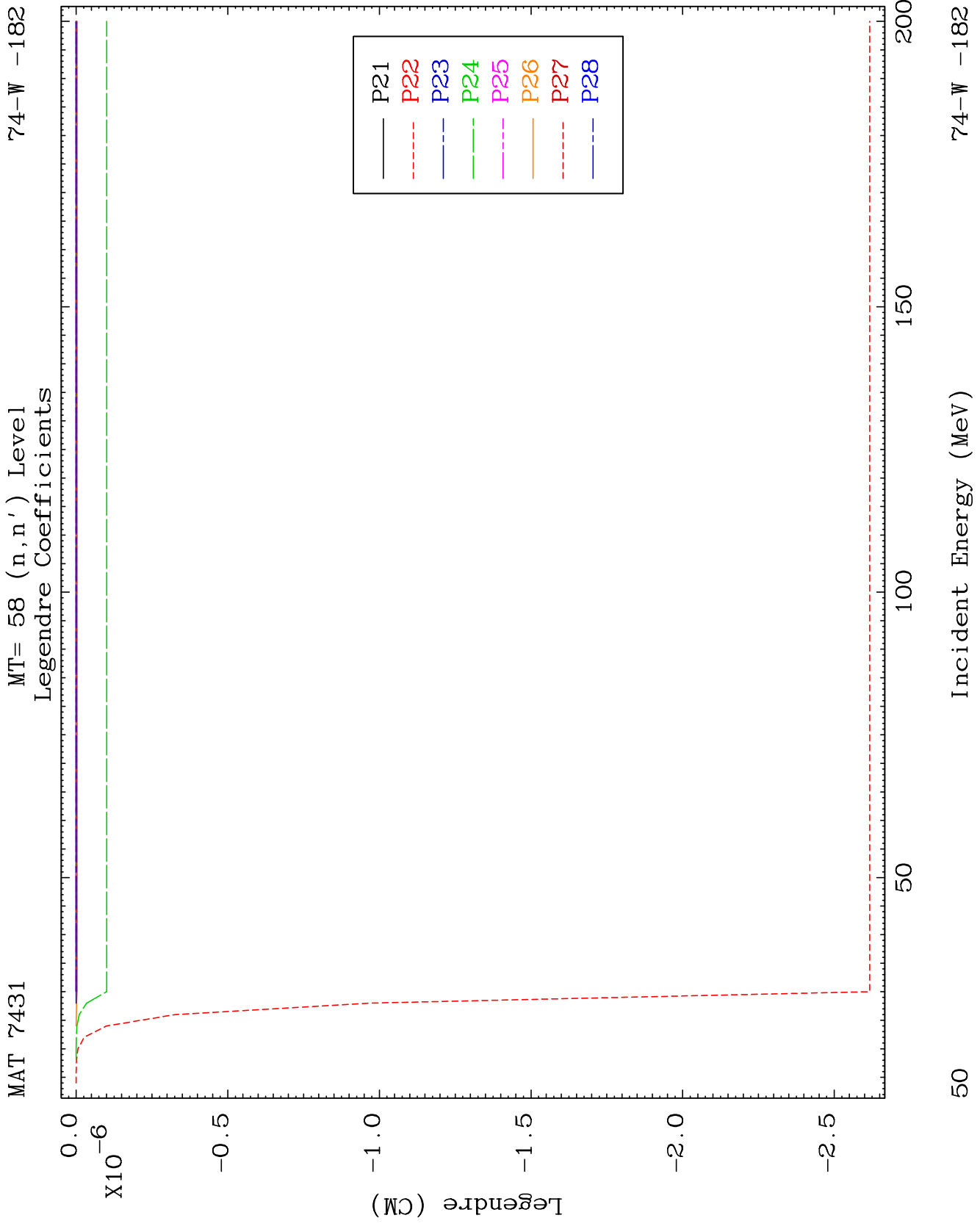


48

Incident Energy (MeV)

74-W -182

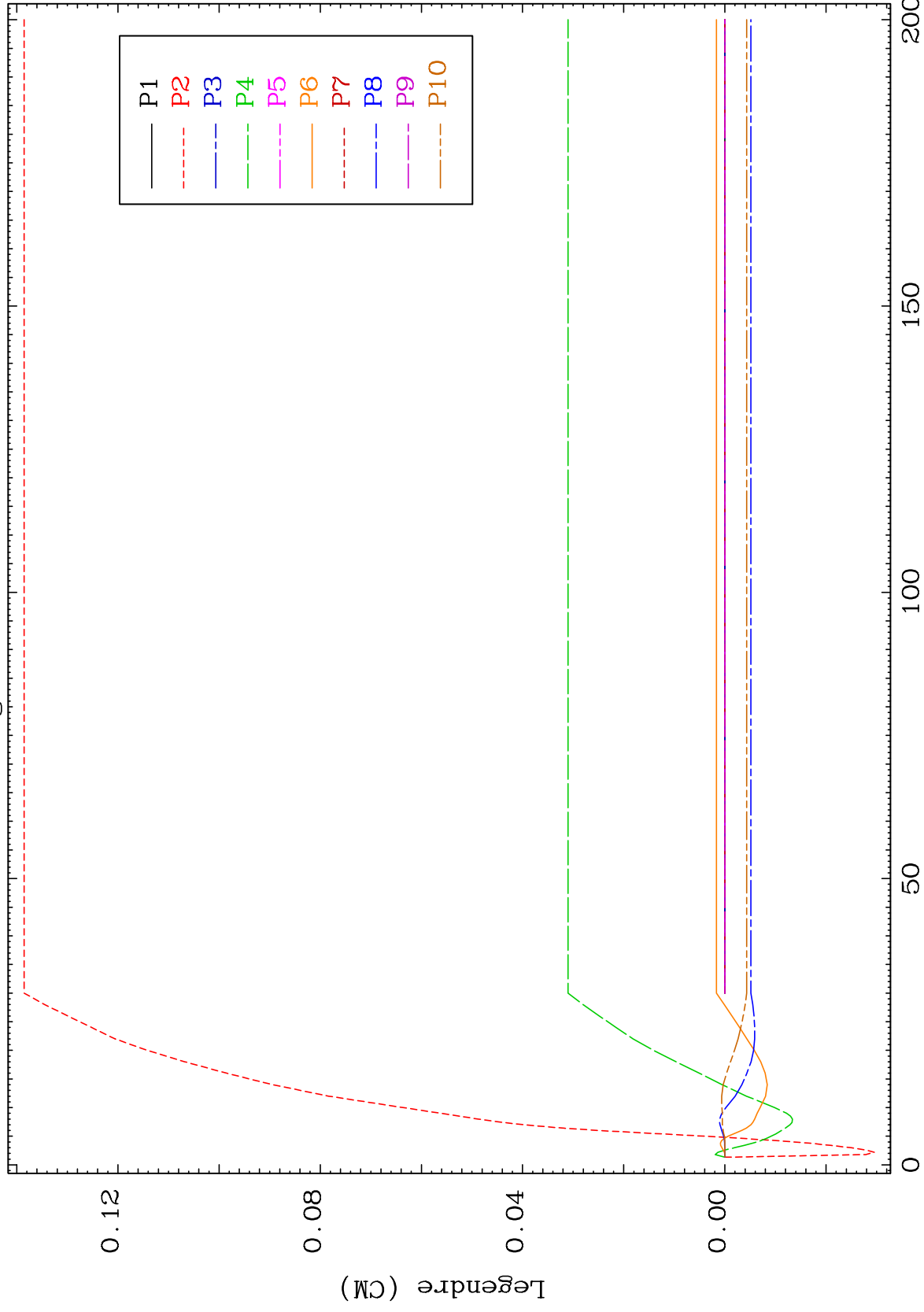




MAT 7431

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

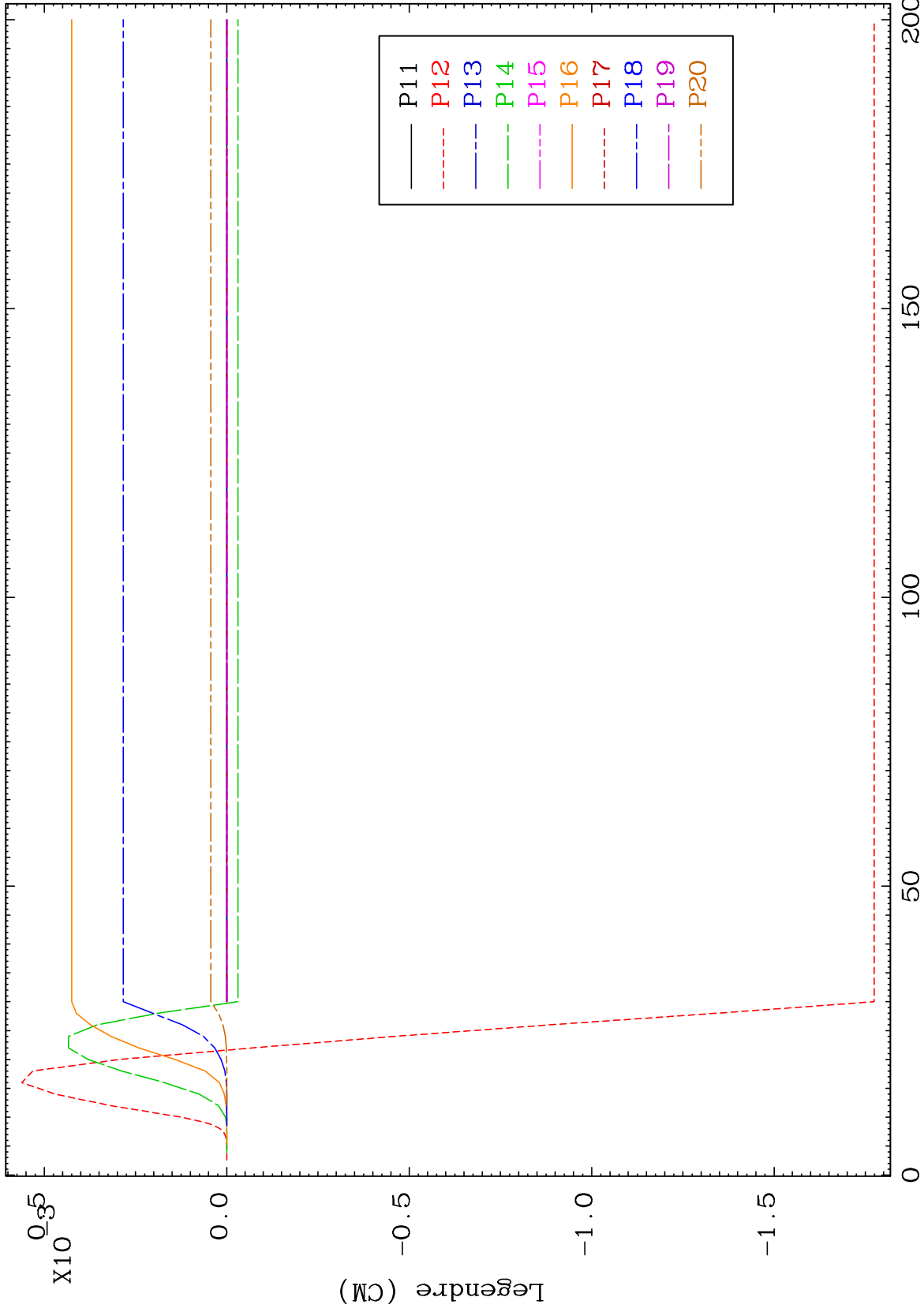
74-W -182



51

Incident Energy (MeV)

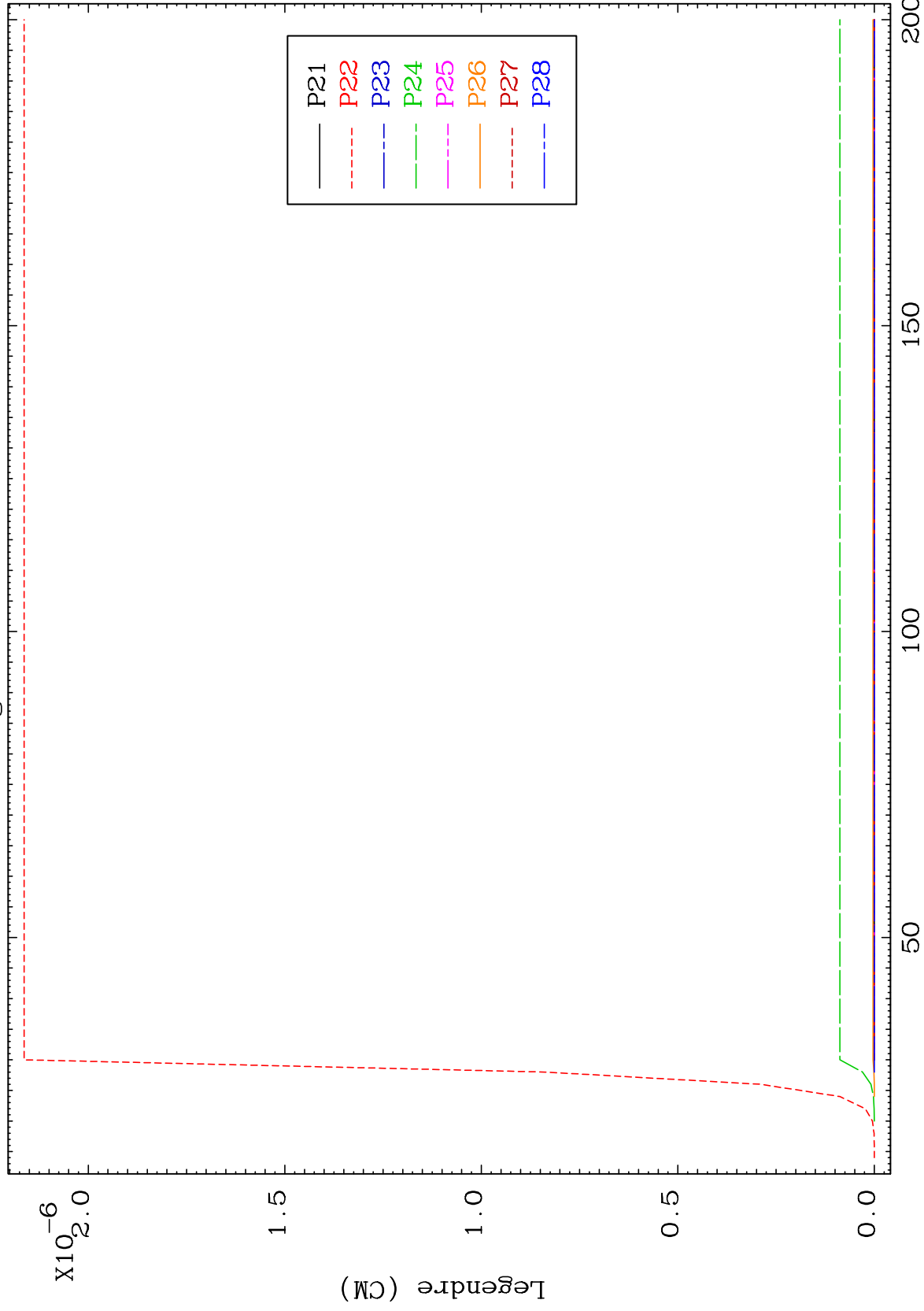
74-W -182



MAT 7431

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

74-W -182



53

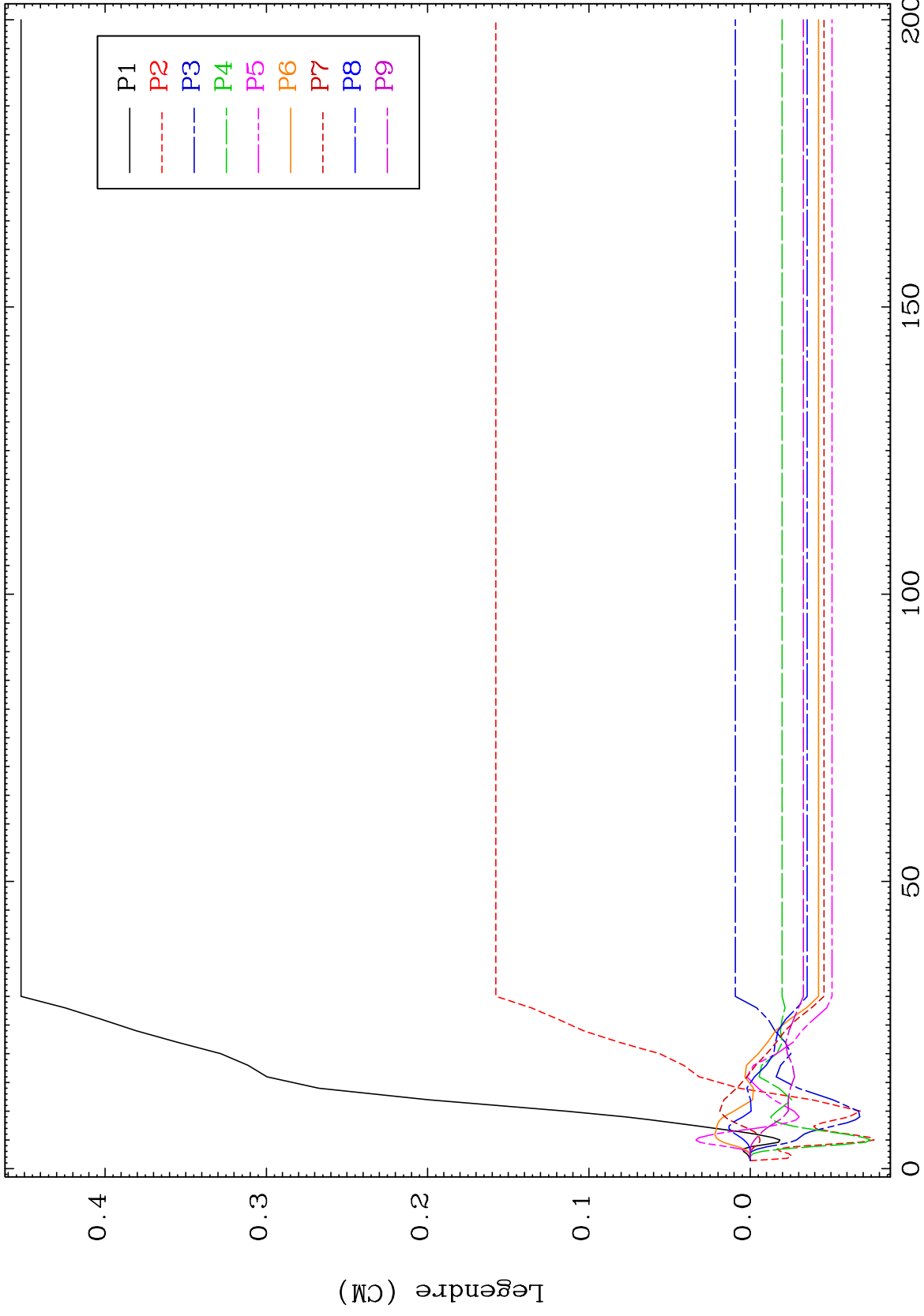
Incident Energy (MeV)

74-W -182

MAT 7431

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

74-W -182



54

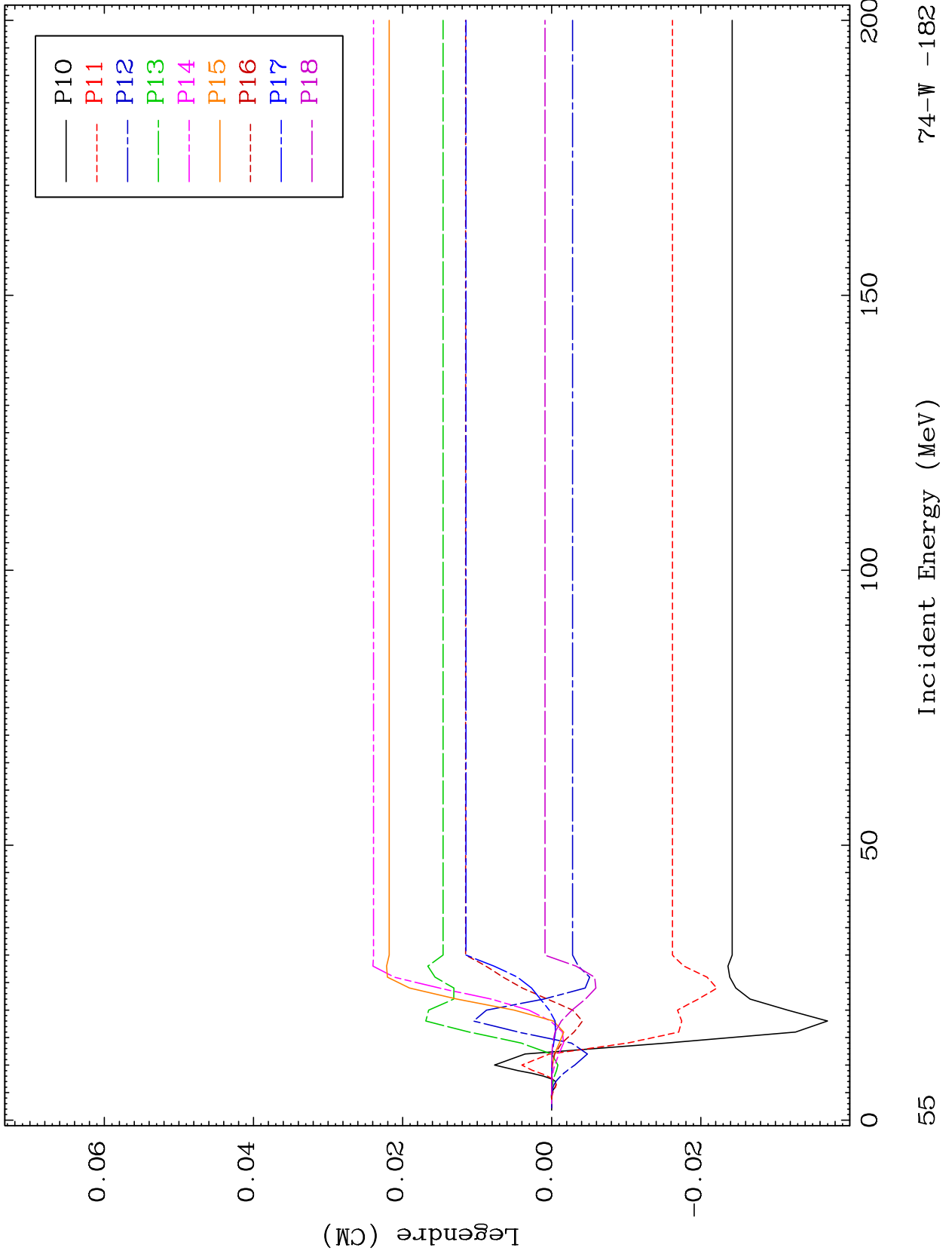
Incident Energy (MeV)

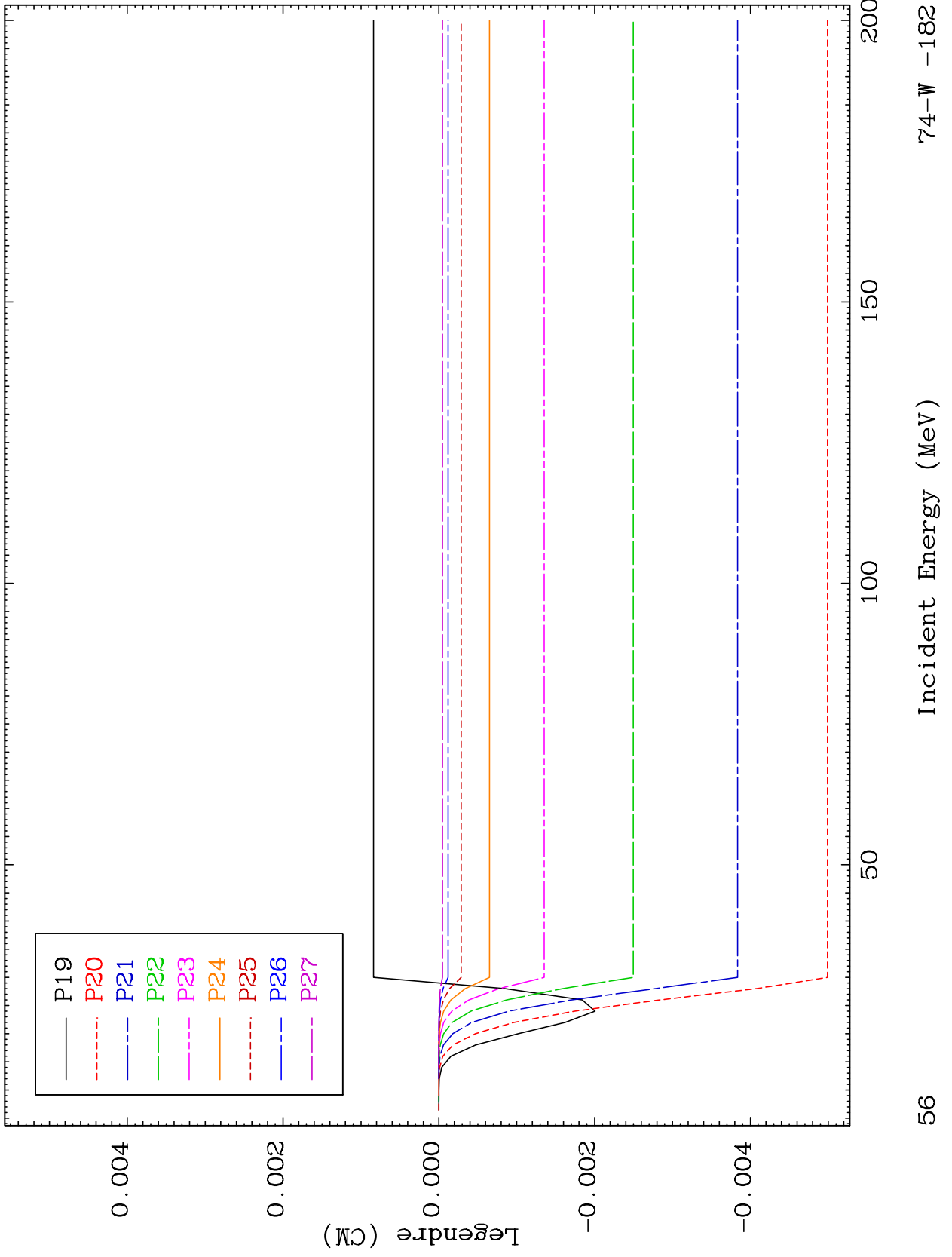
74-W -182

MAT 7431

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

74-W -182

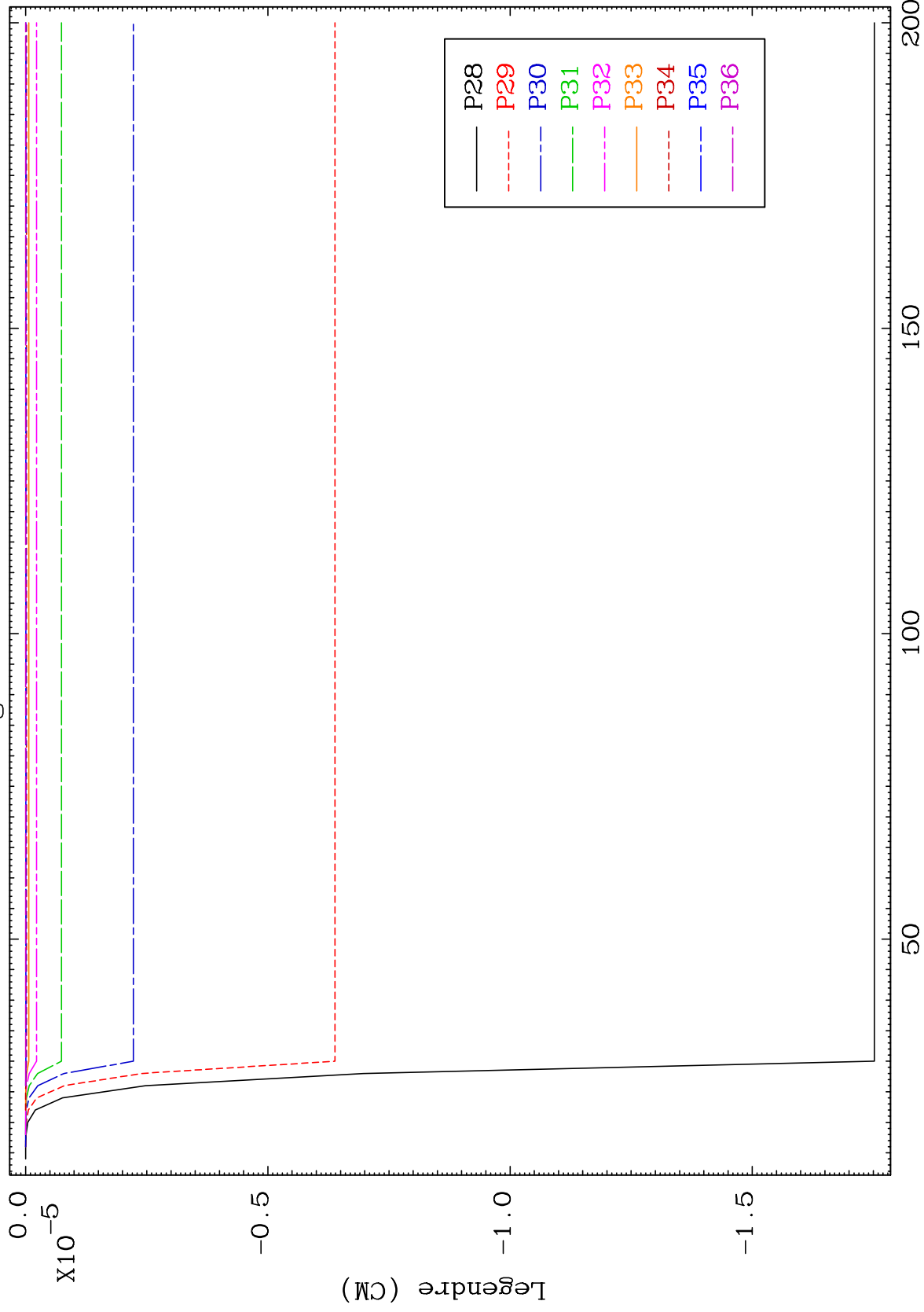




MAT 7431

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

74-W -182



57

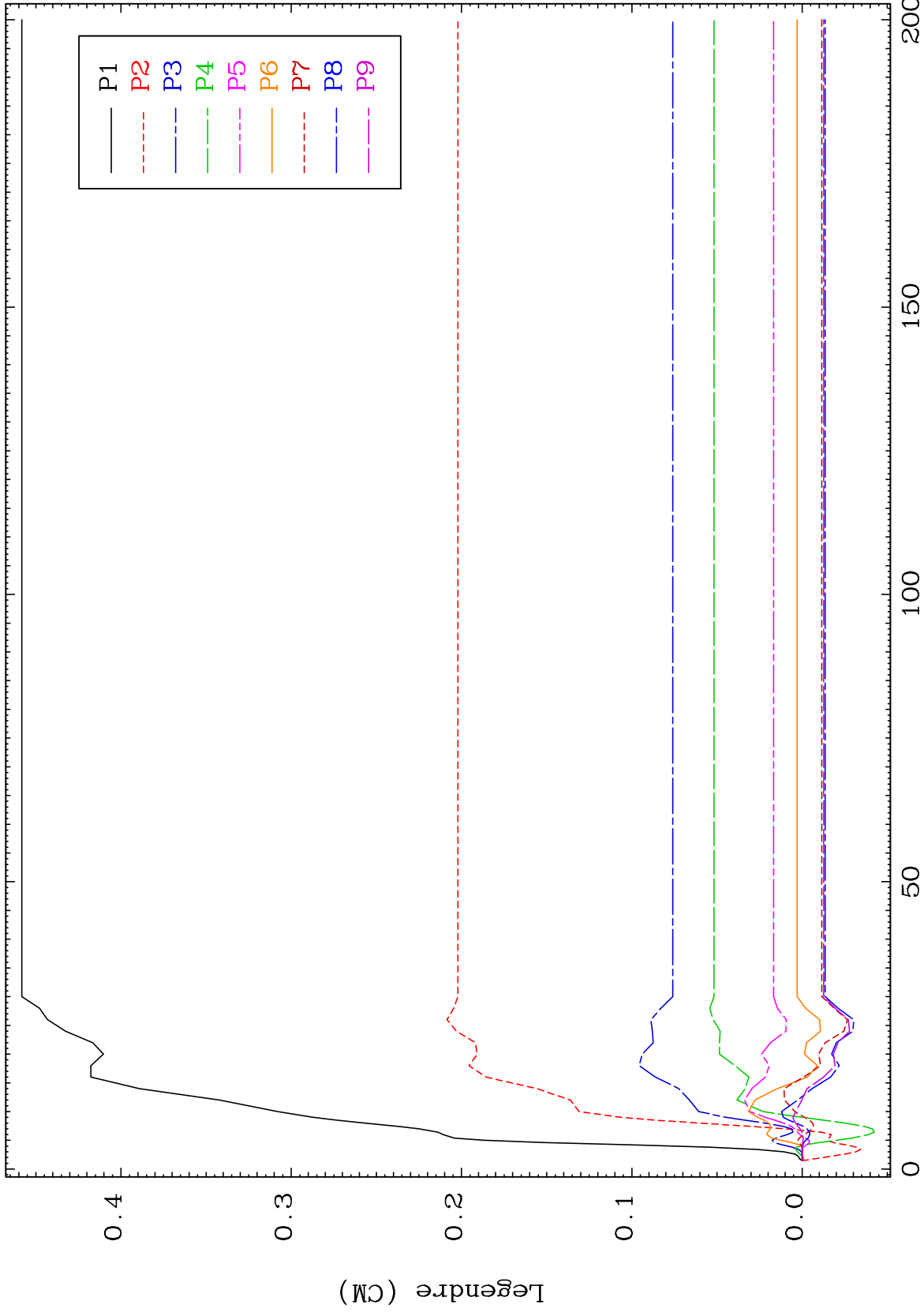
Incident Energy (MeV)

74-W -182

MAT 7431

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

74-W -182



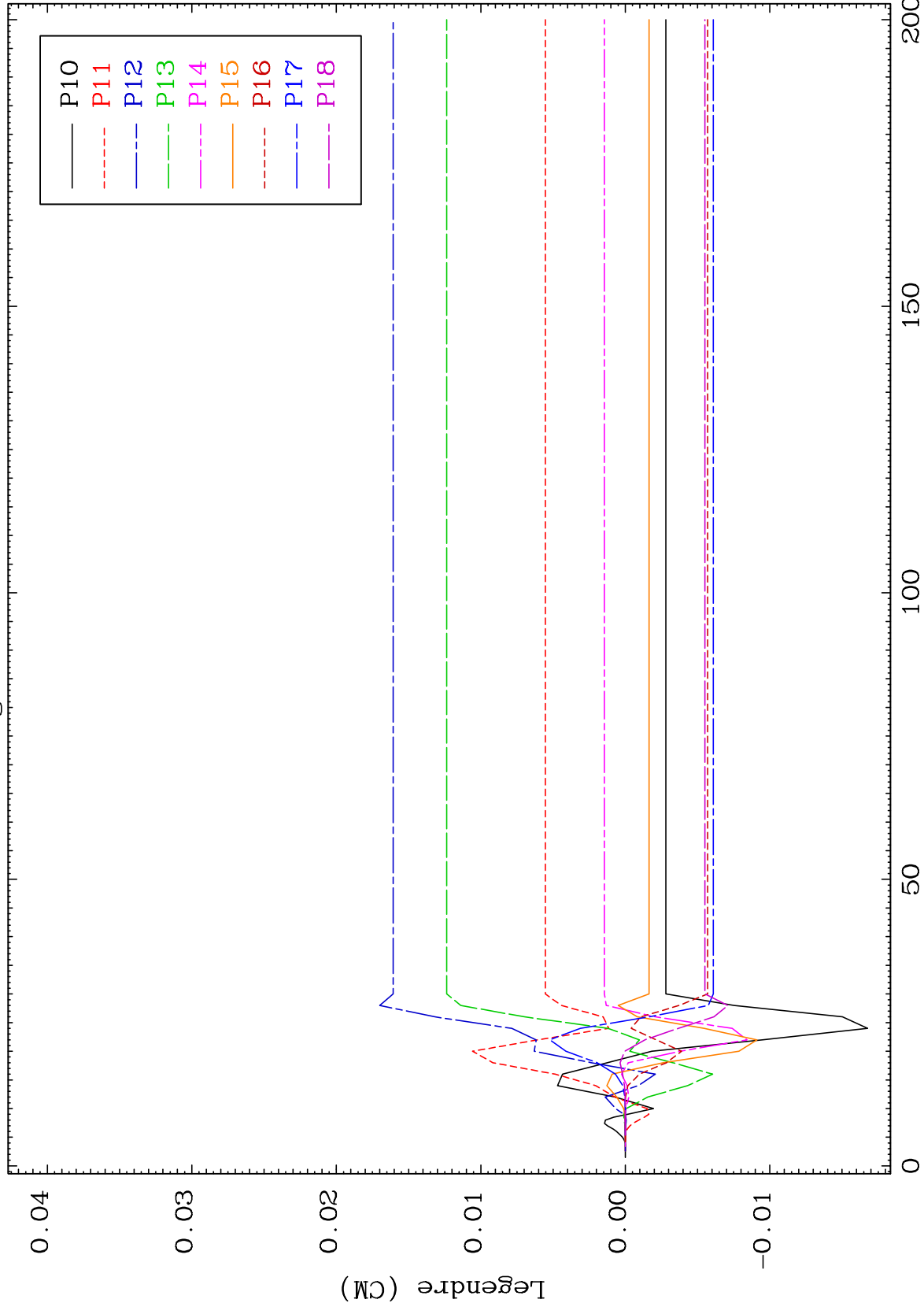
58

74-W -182

MAT 7431

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

74-W -182



59

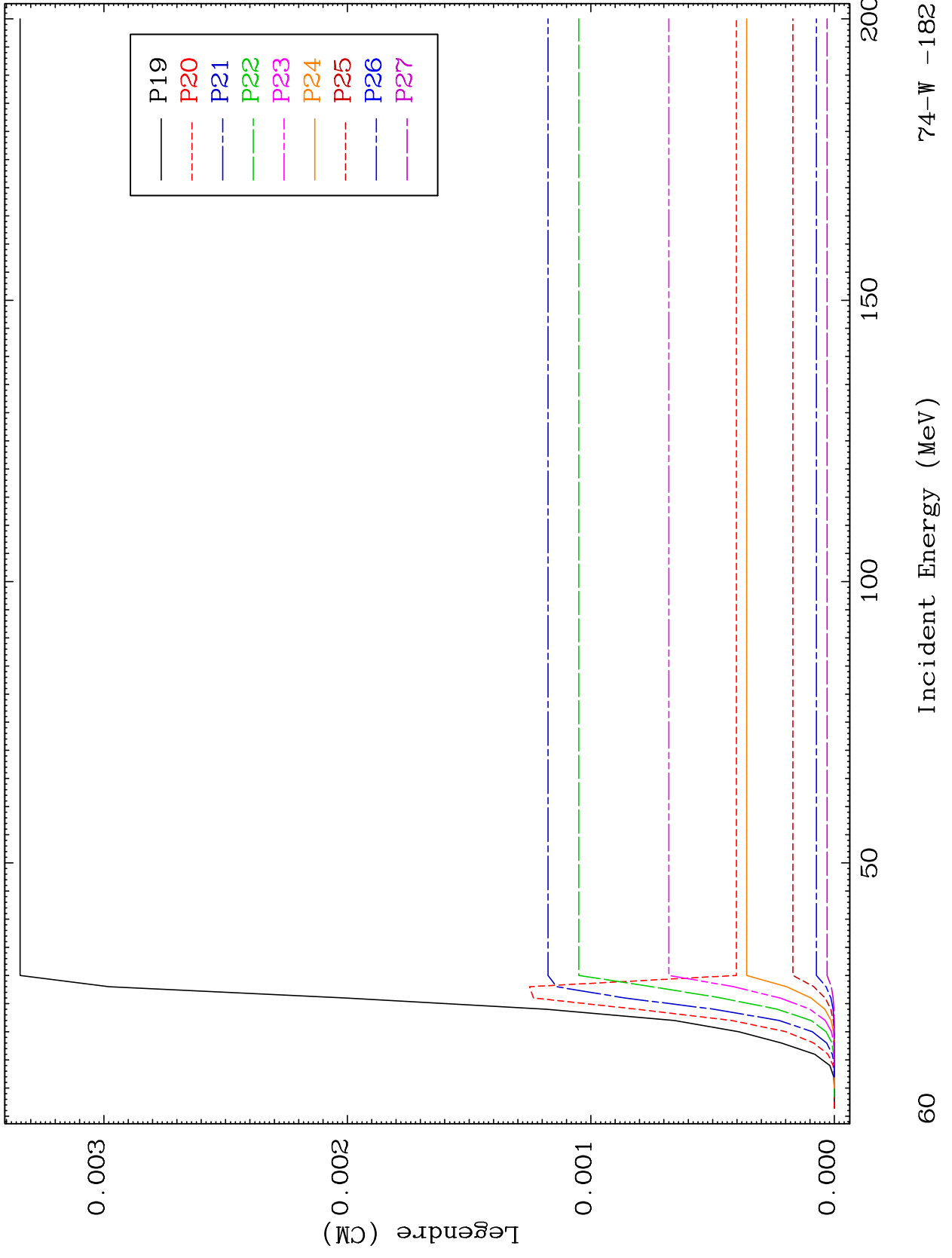
Incident Energy (MeV)

74-W -182

MAT 7431

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

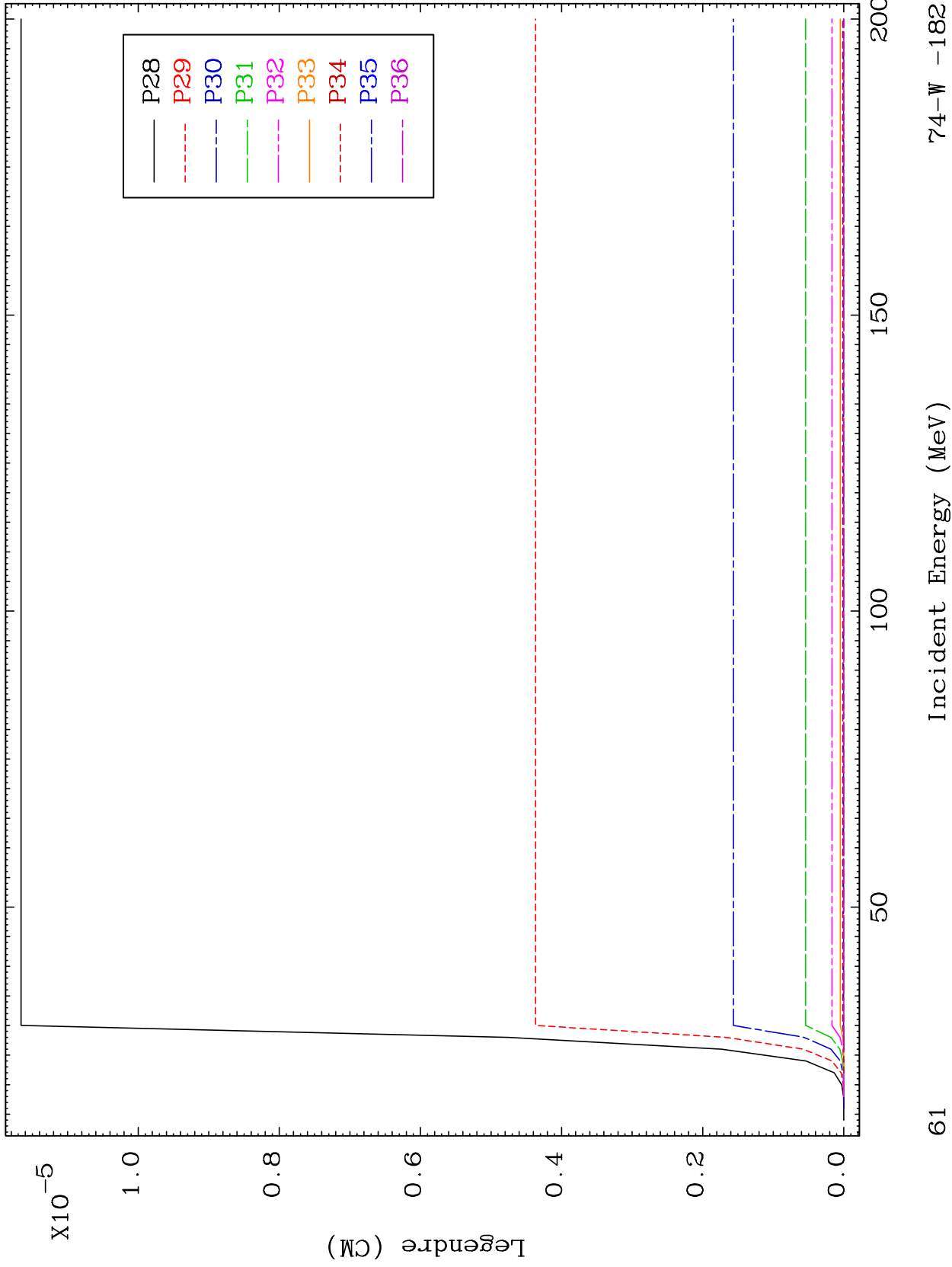
74-W -182



74-W -182

Incident Energy (MeV)

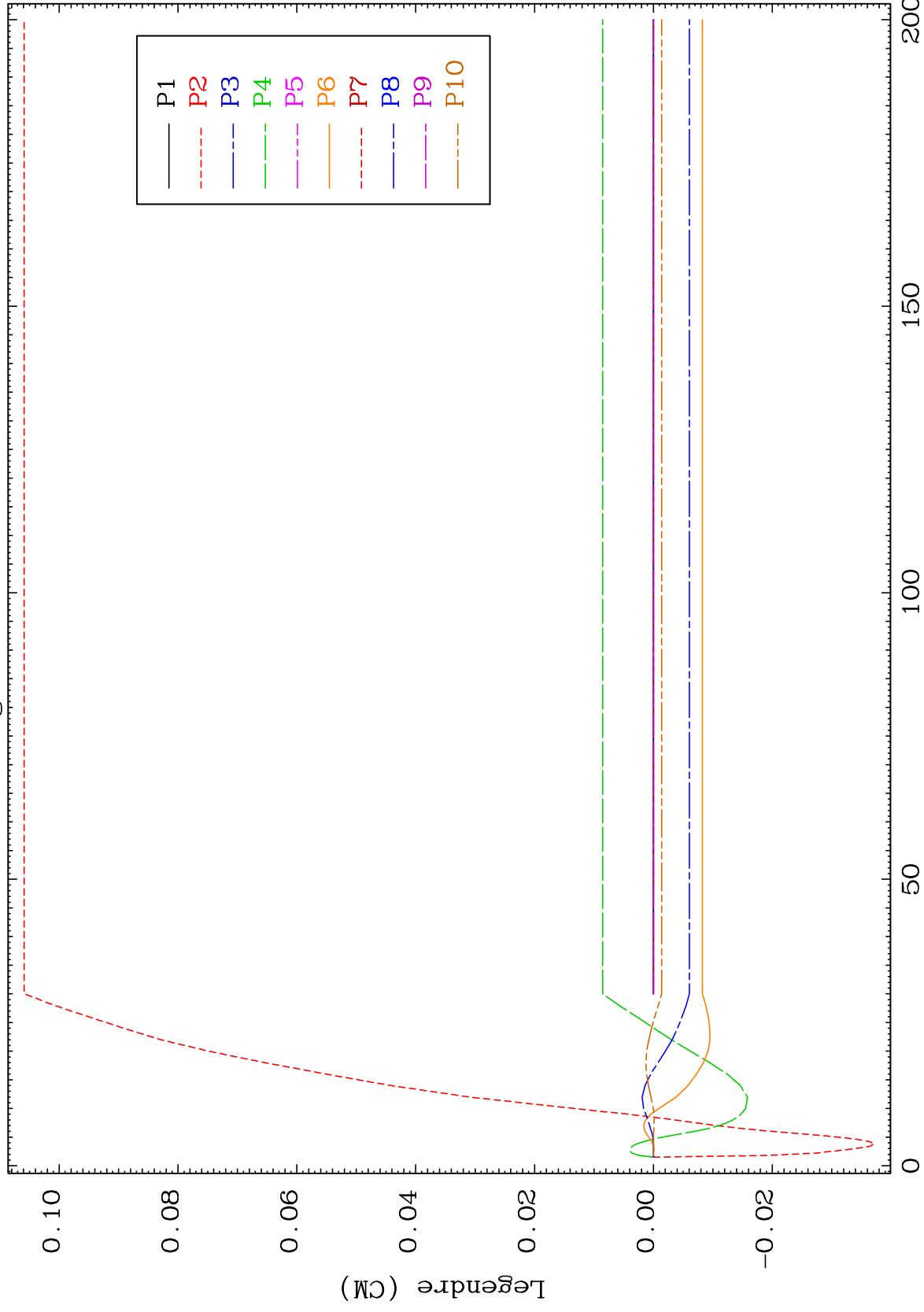
60



MAT 7431

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

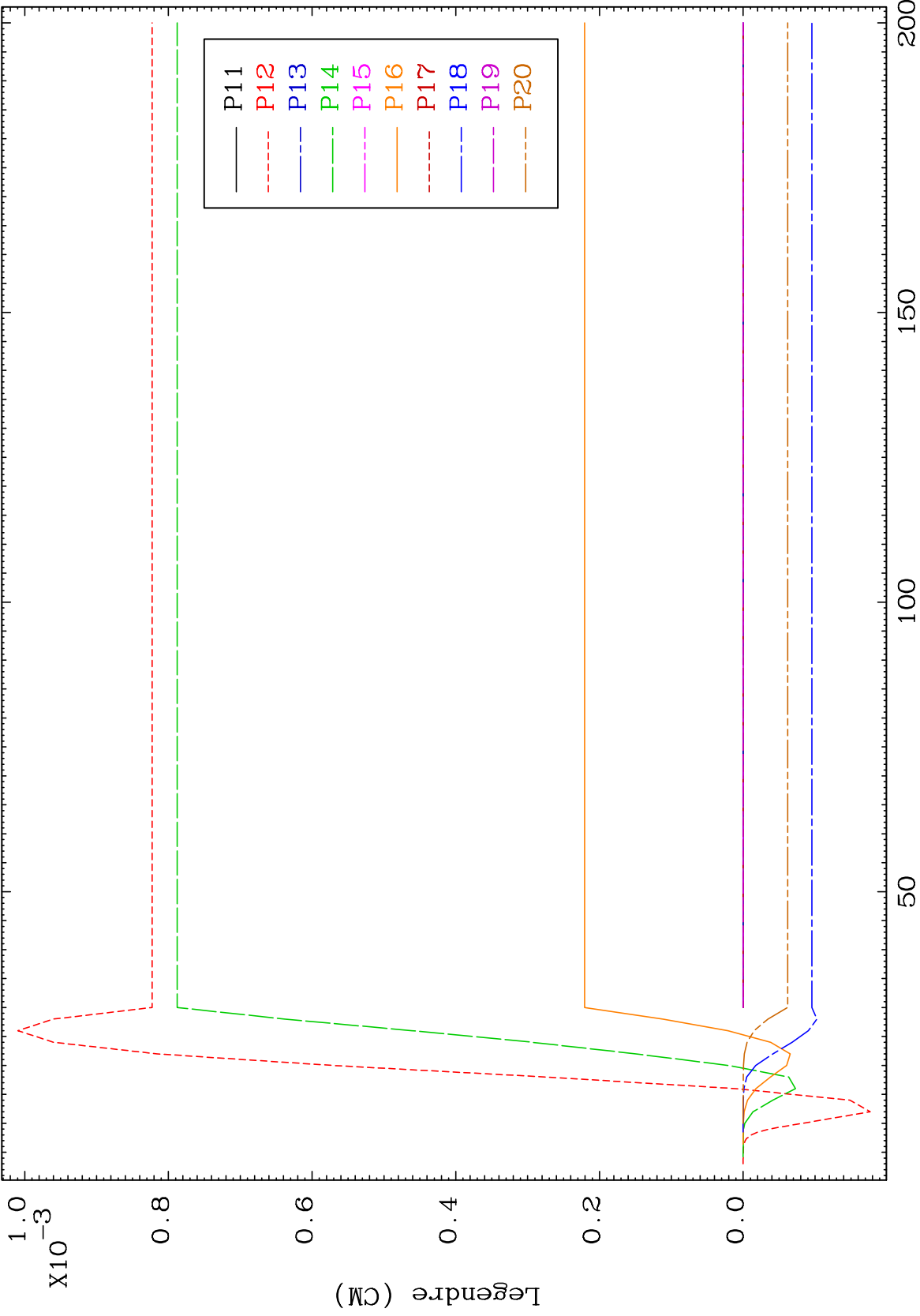
74-W -182



Incident Energy (MeV)

74-W -182

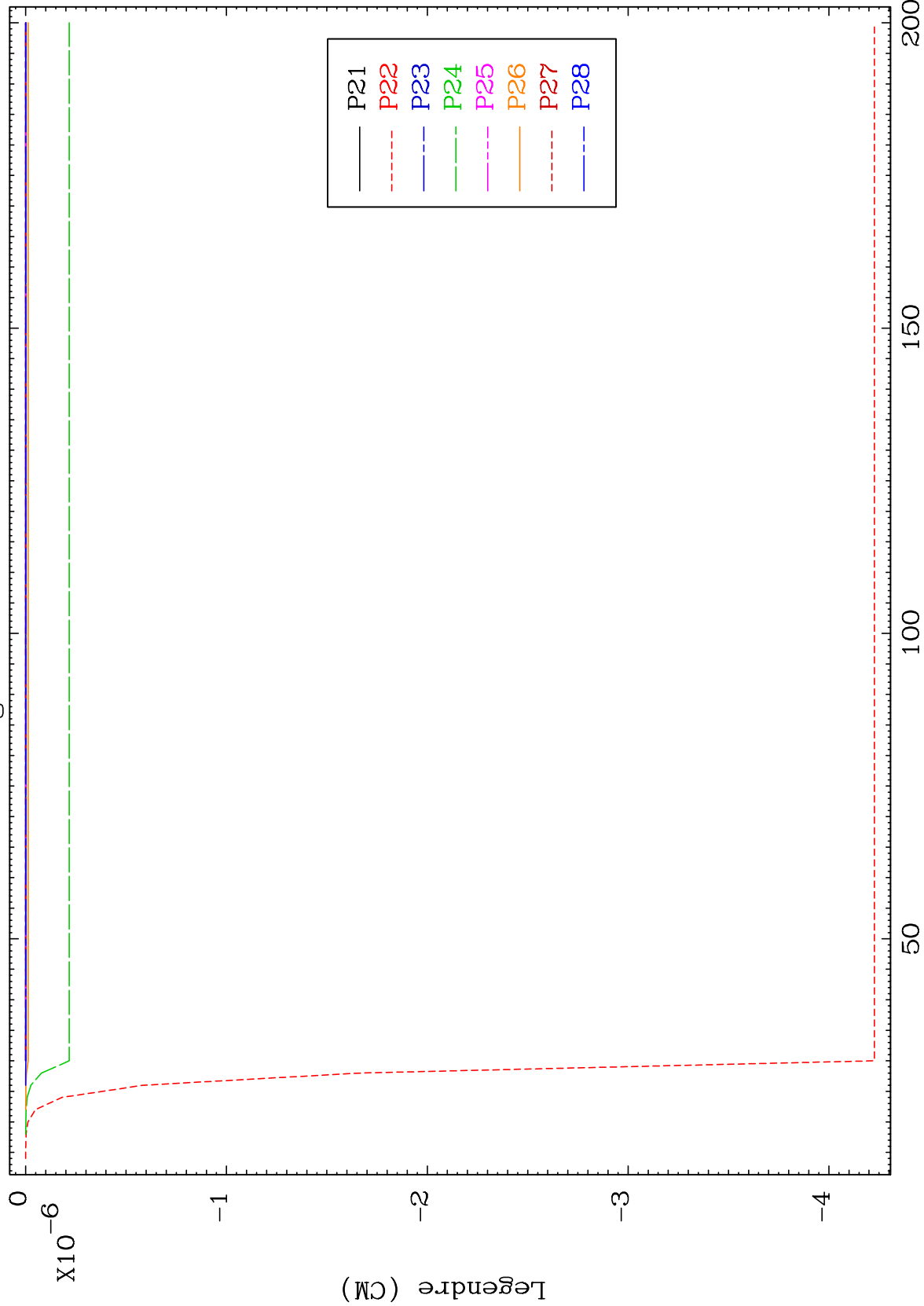
62



MAT 7431

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

74-W -182



74-W -182

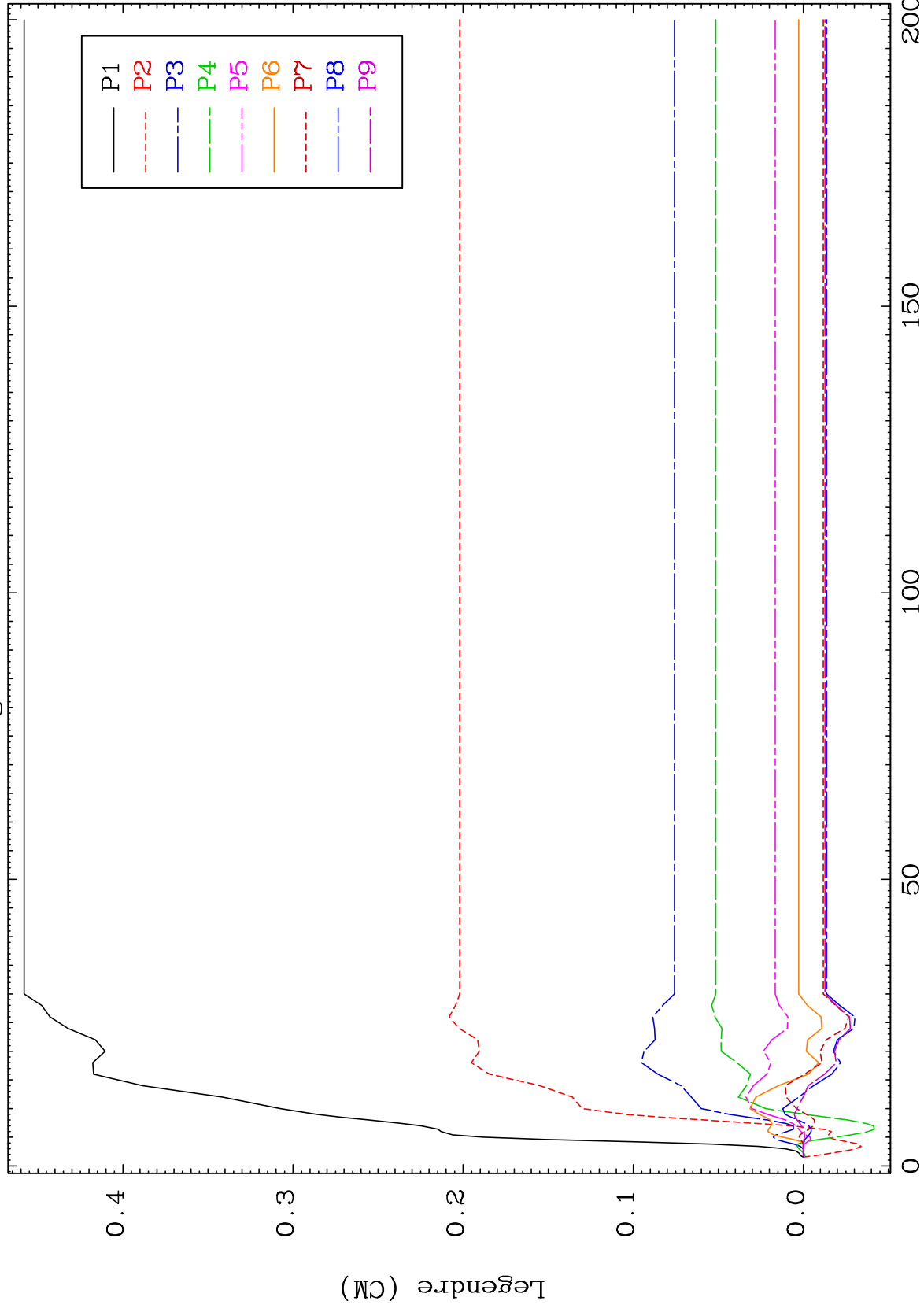
Incident Energy (MeV)

64

MAT 7431

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

74-W -182



Incident Energy (MeV)

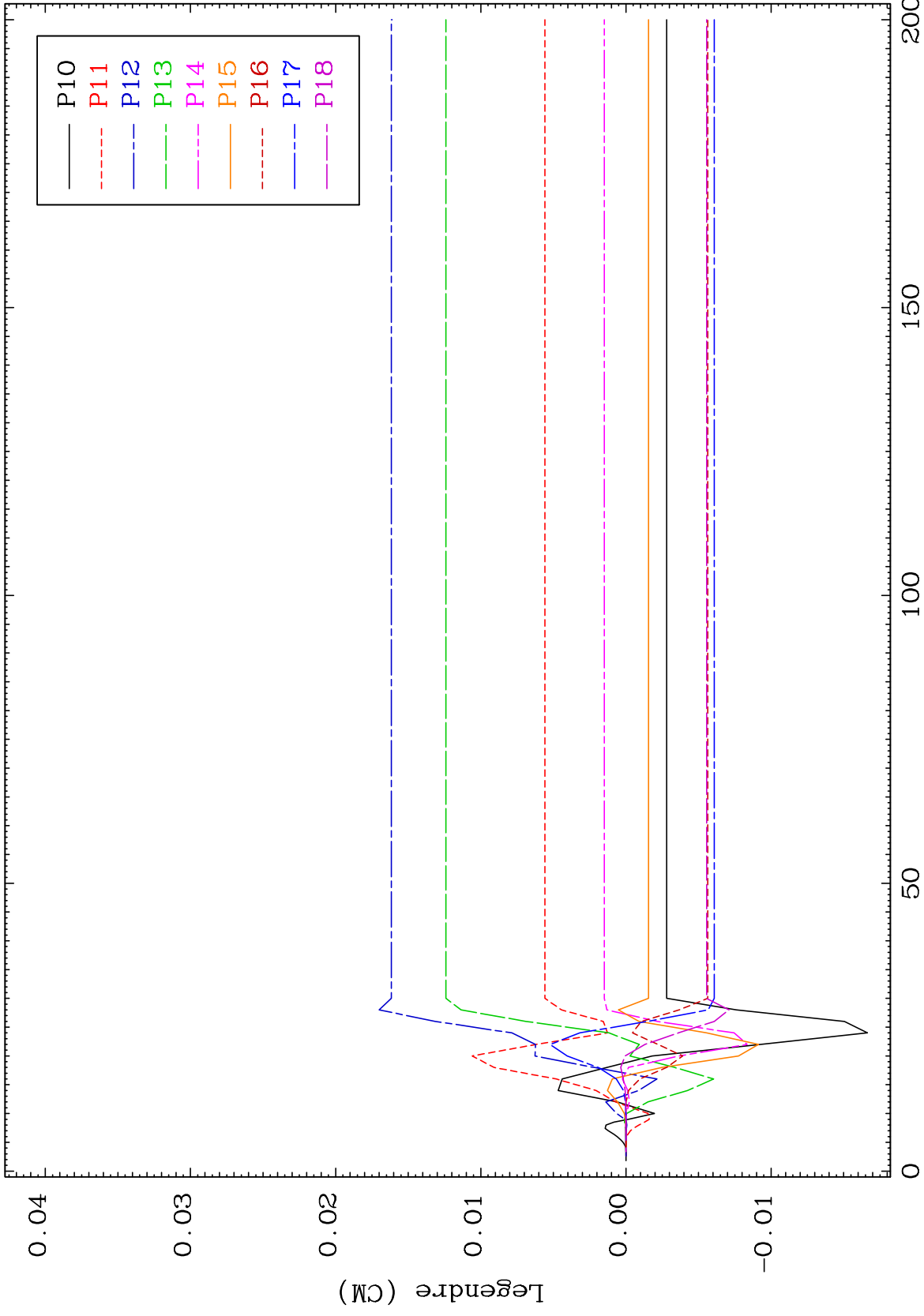
74-W -182

65

MAT 7431

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

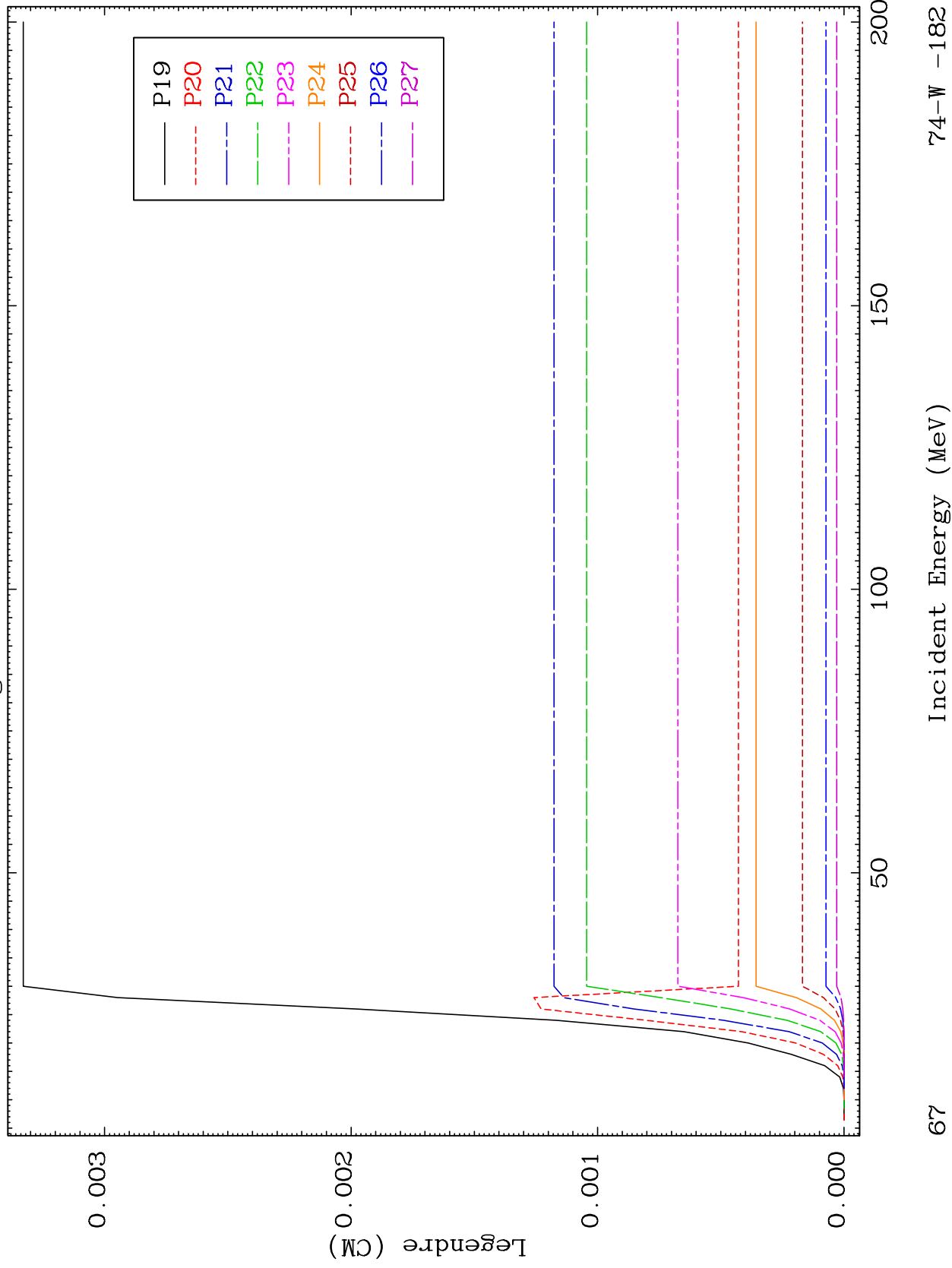
74-W -182



66

Incident Energy (MeV)

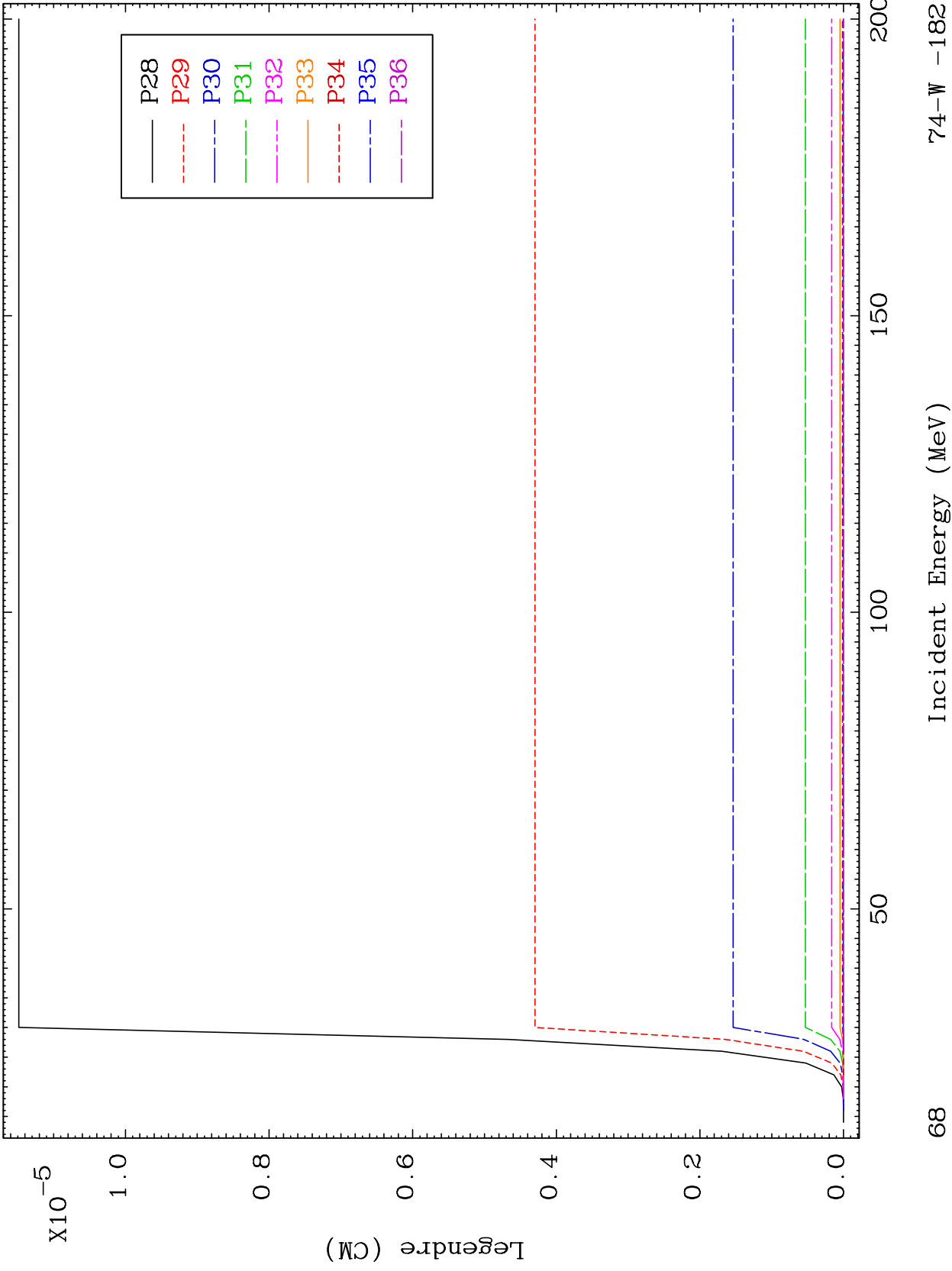
74-W -182



MAT 7431

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

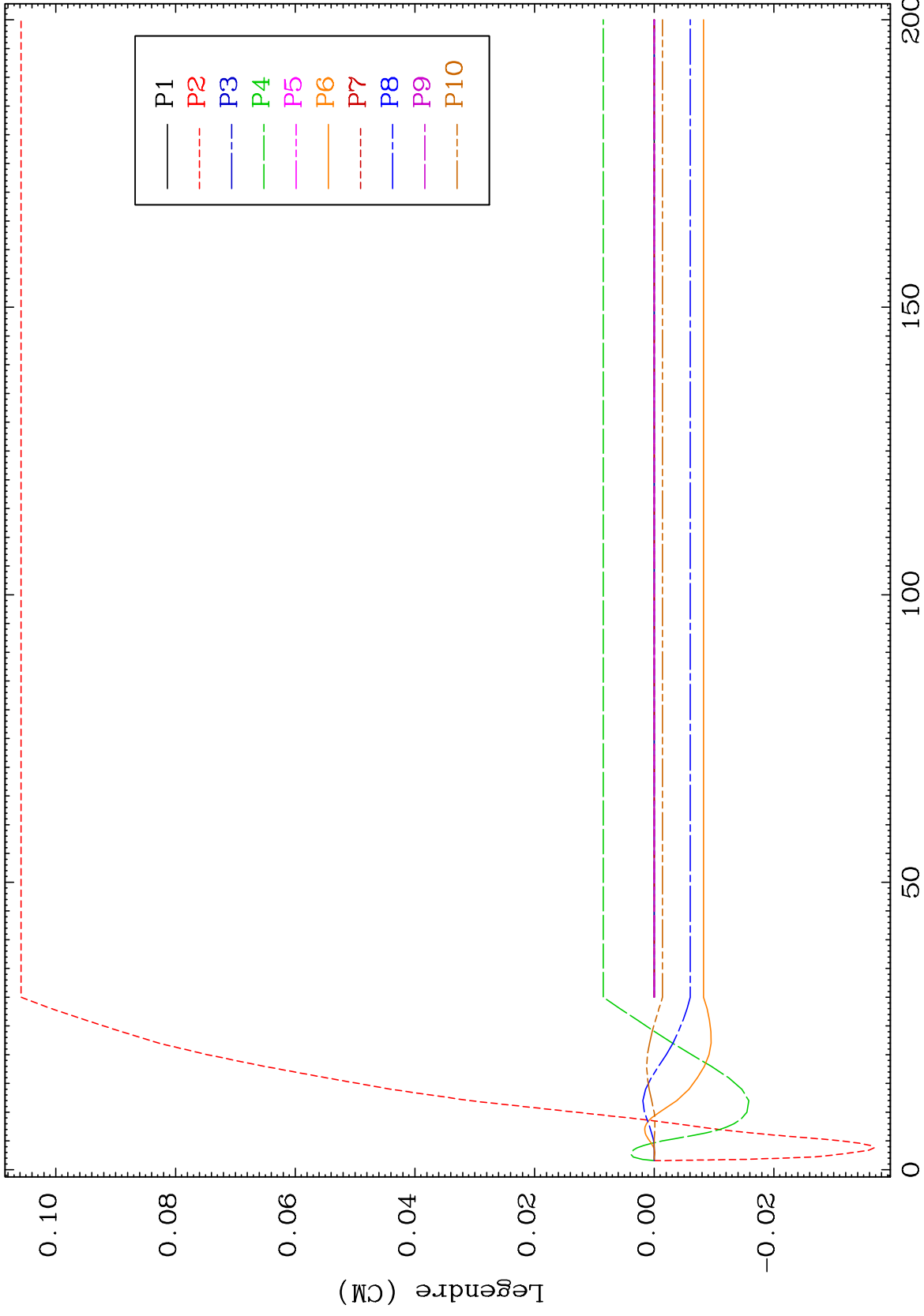
74-W -182



MAT 7431

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

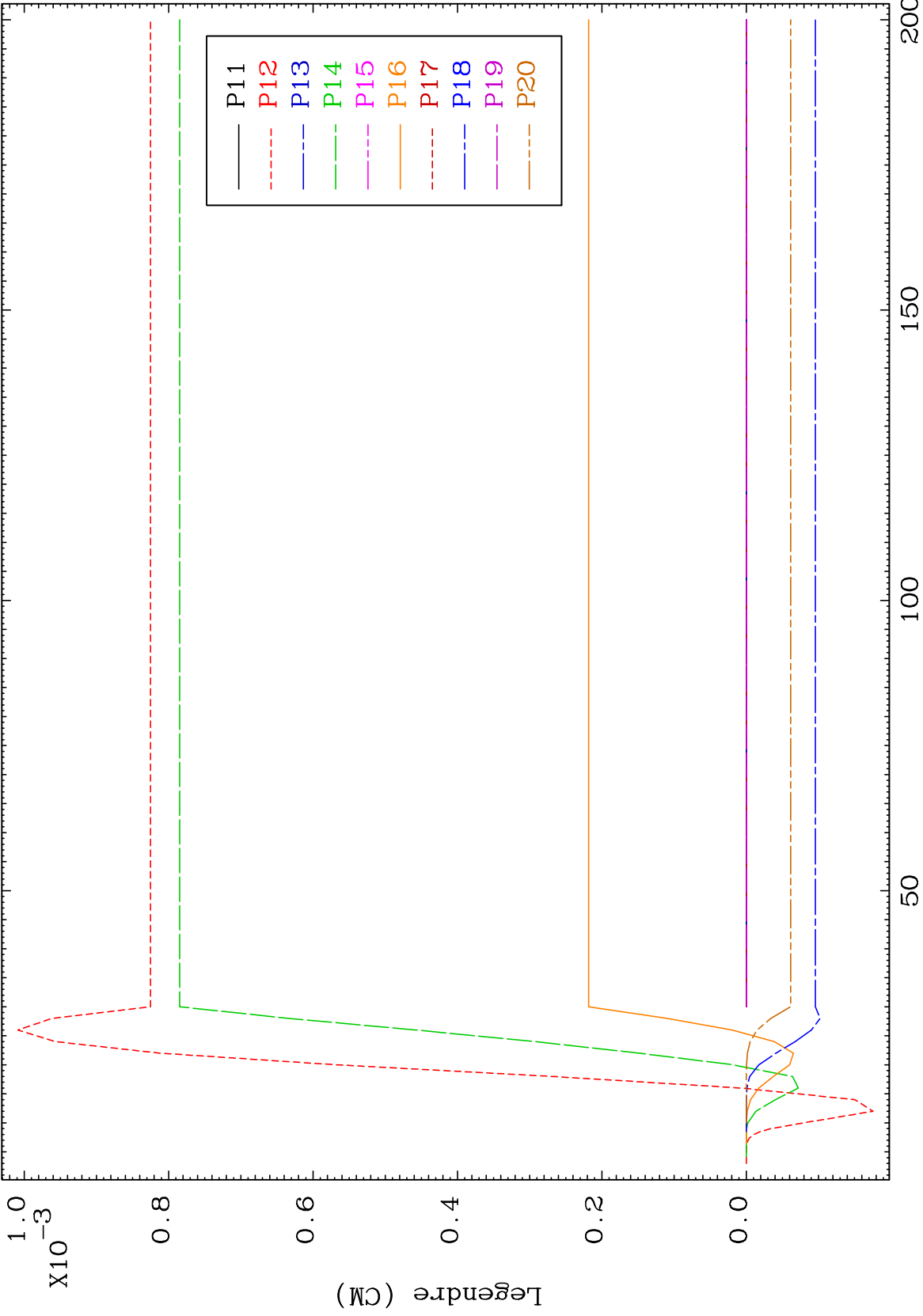
74-W -182



69

Incident Energy (MeV)

74-W -182

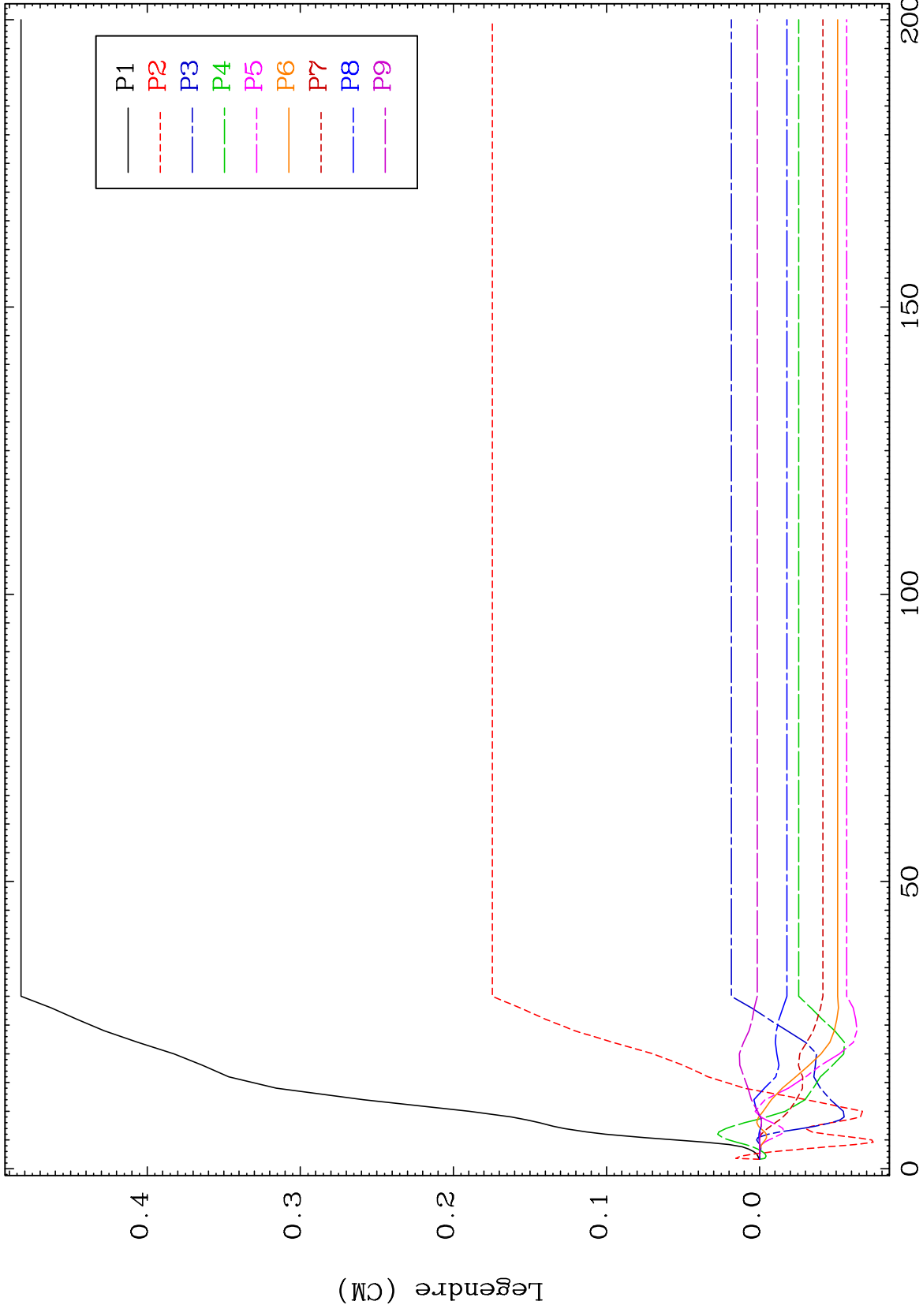




MAT 7431

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

74-W -182



72

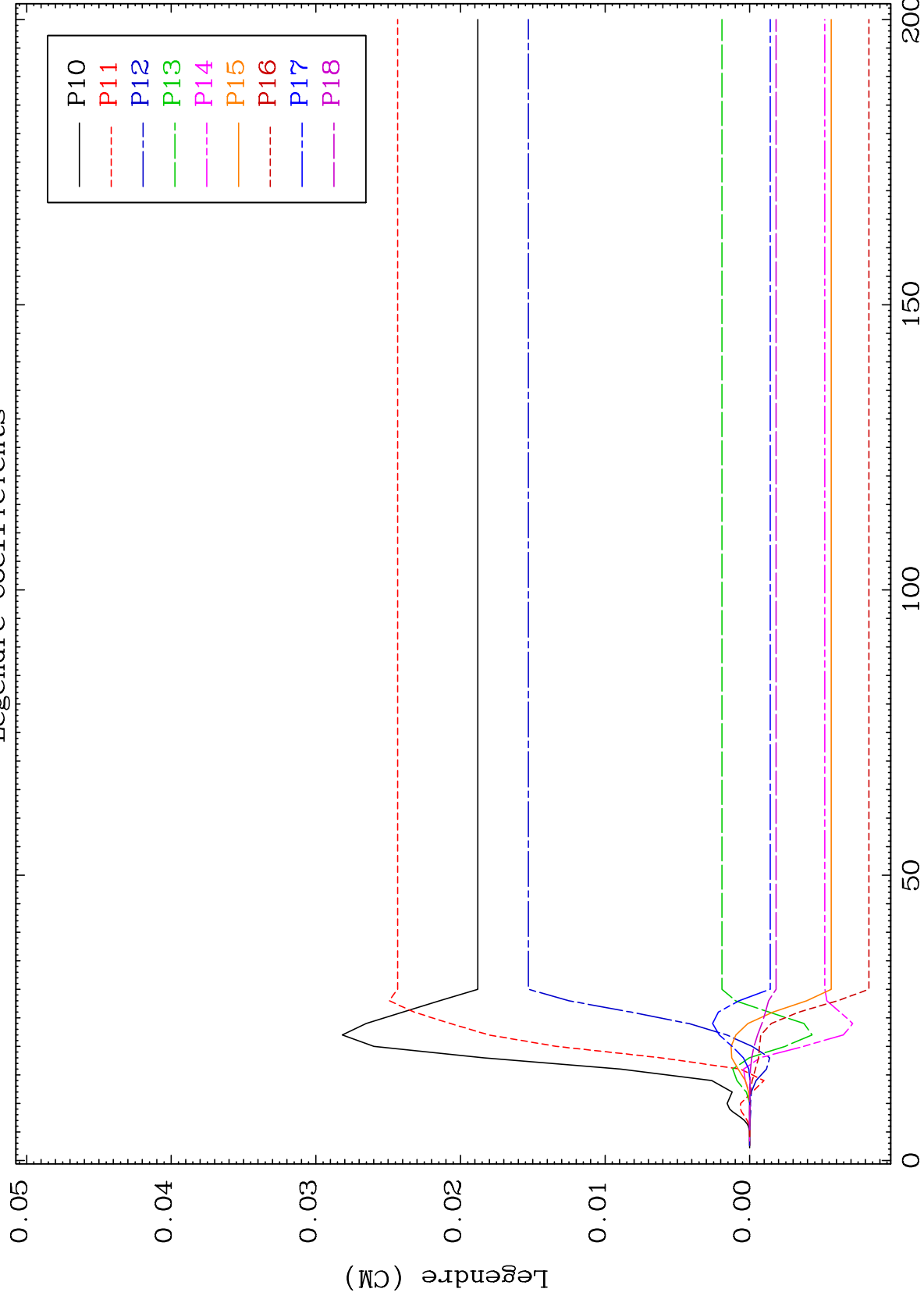
Incident Energy (MeV)

74-W -182

MAT 7431

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

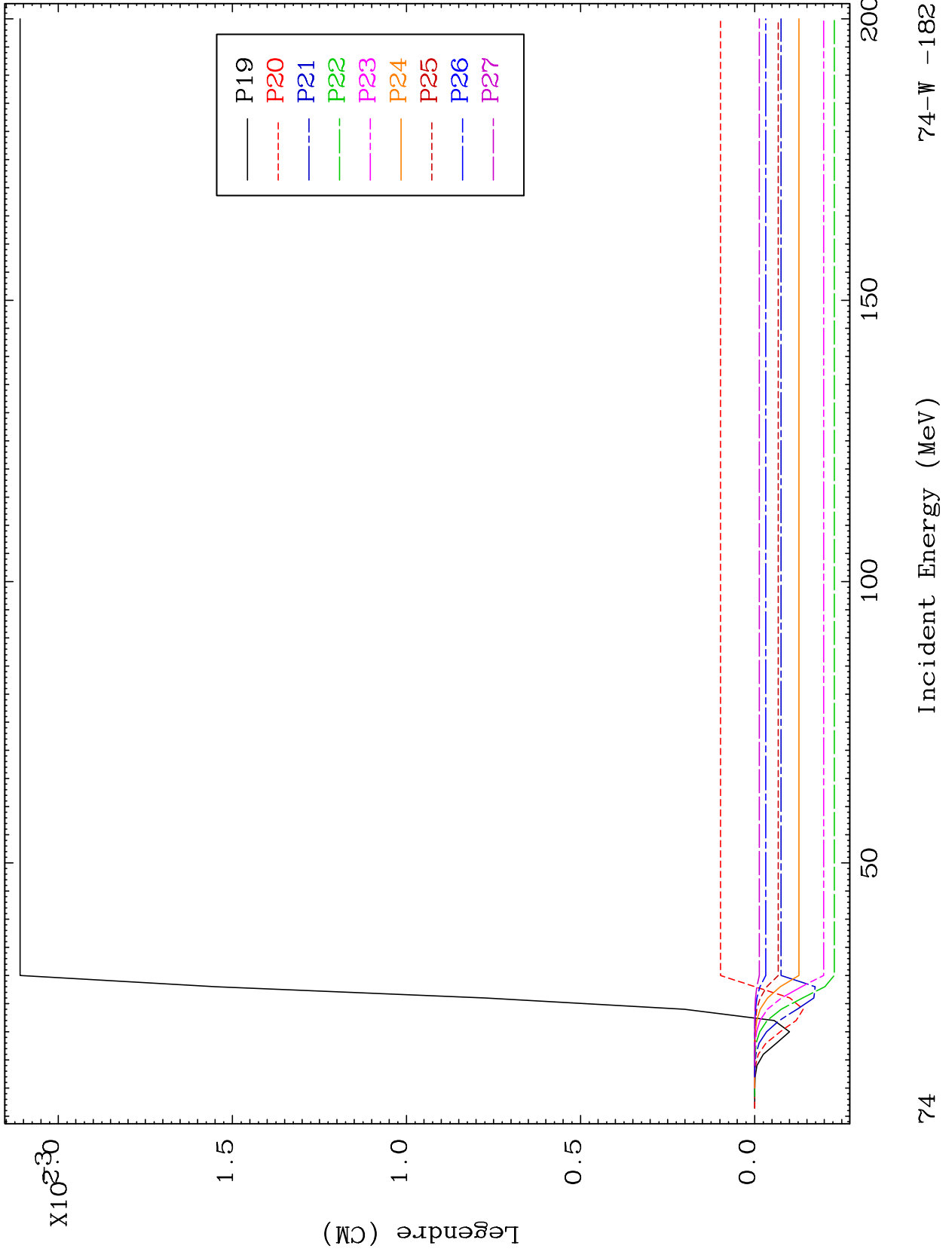
74-W -182



73

Incident Energy (MeV)

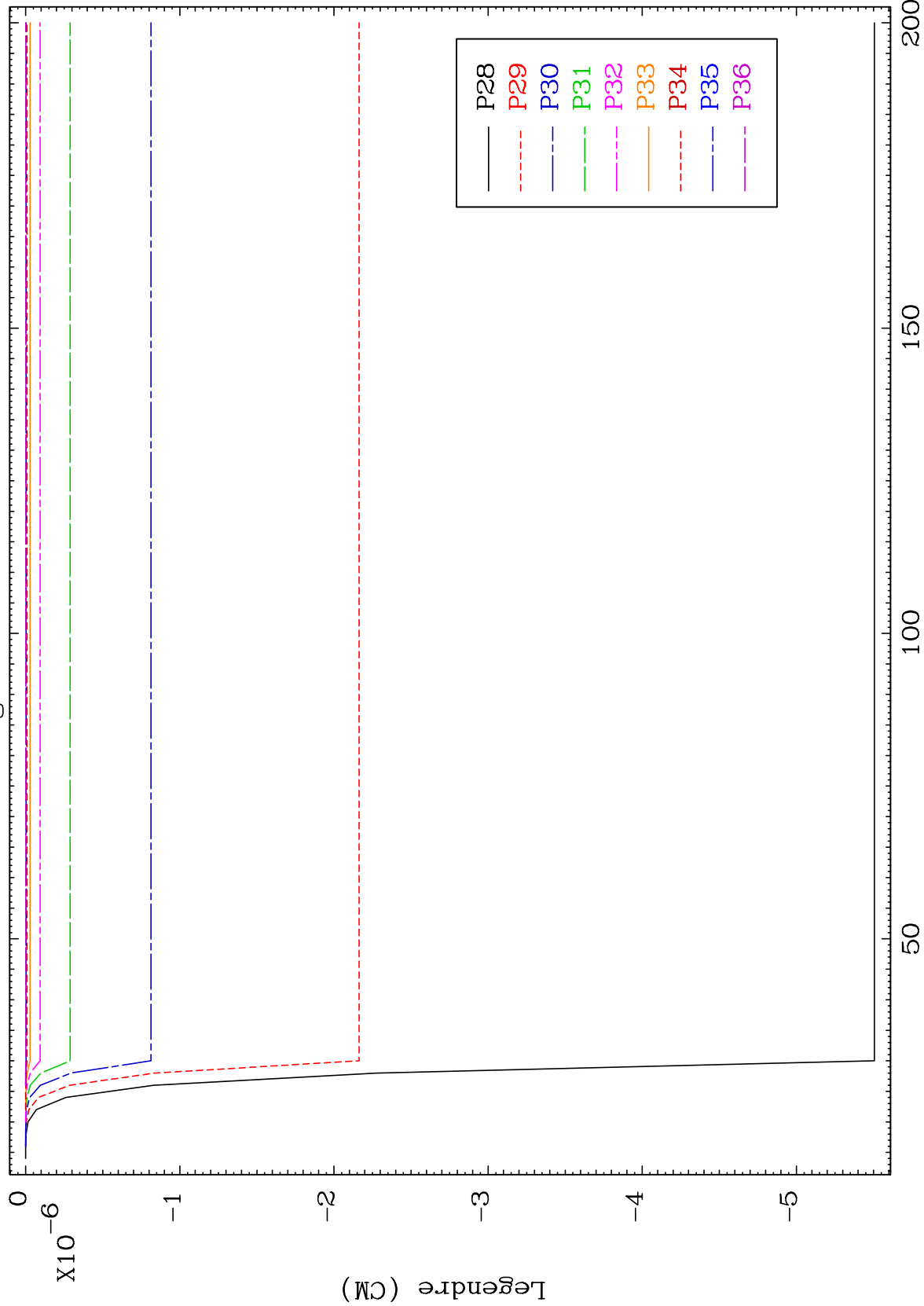
74-W -182



MAT 7431

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

74-W -182



74-W -182

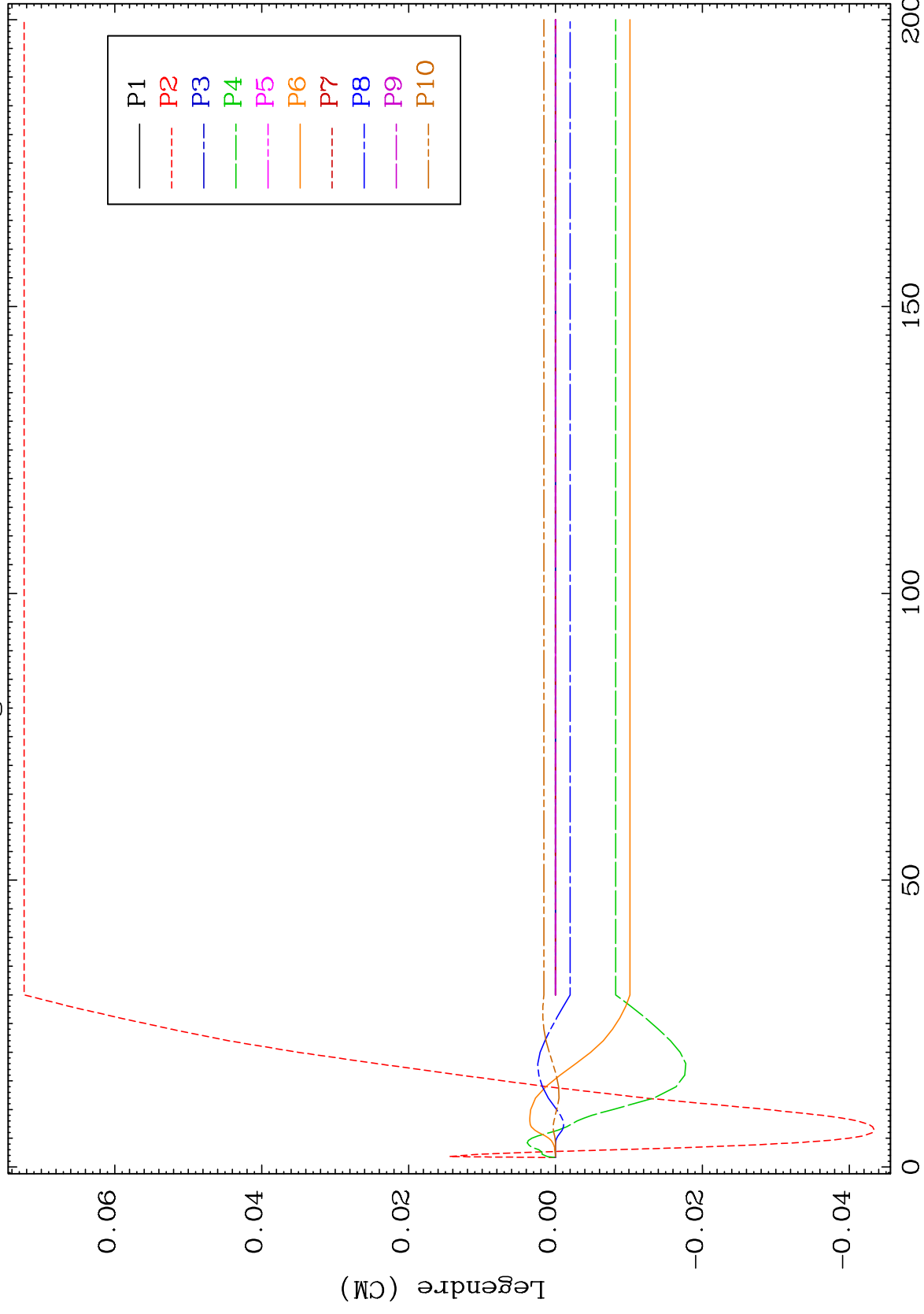
Incident Energy (MeV)

75

MAT 7431

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

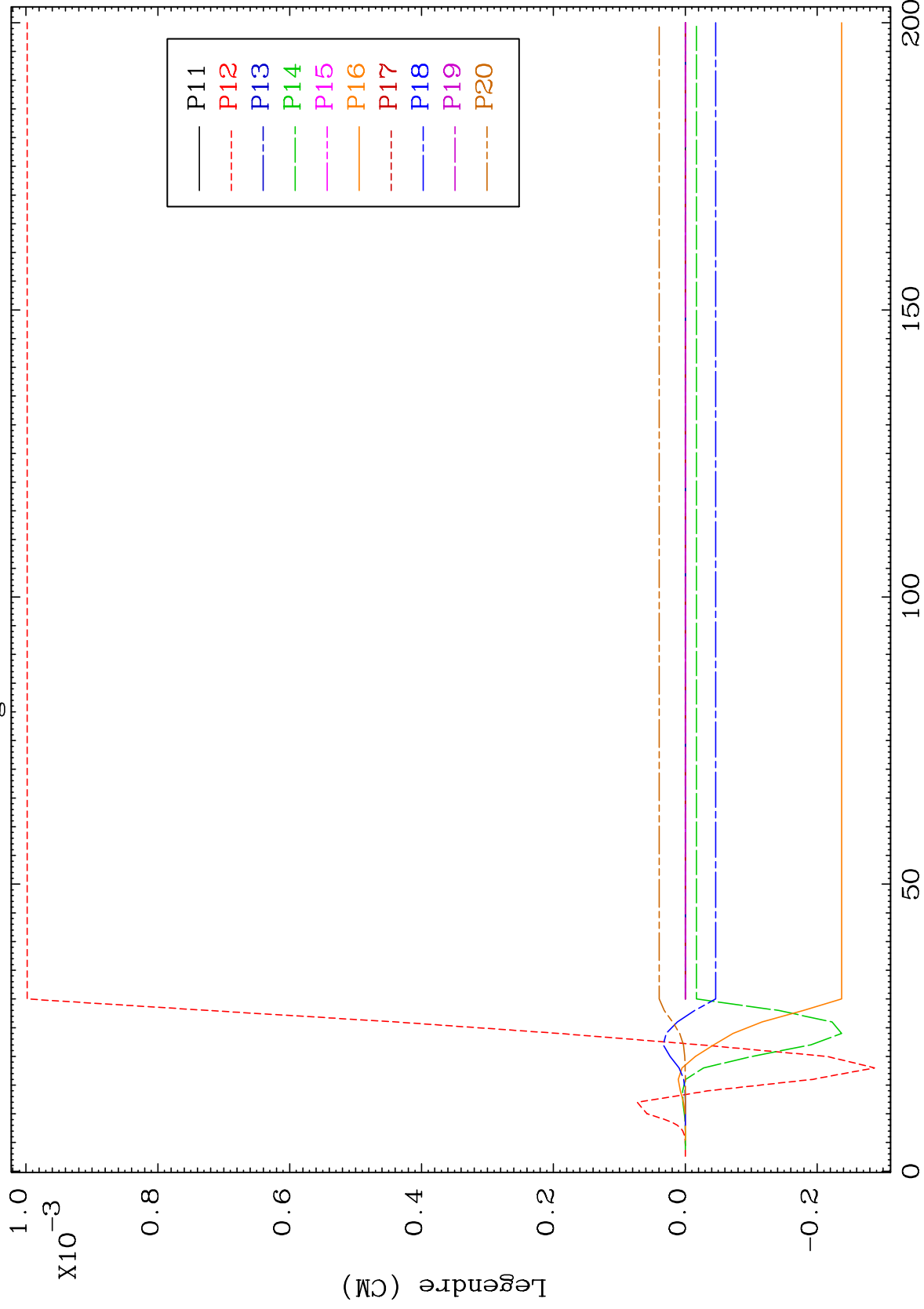
74-W -182



76

Incident Energy (MeV)

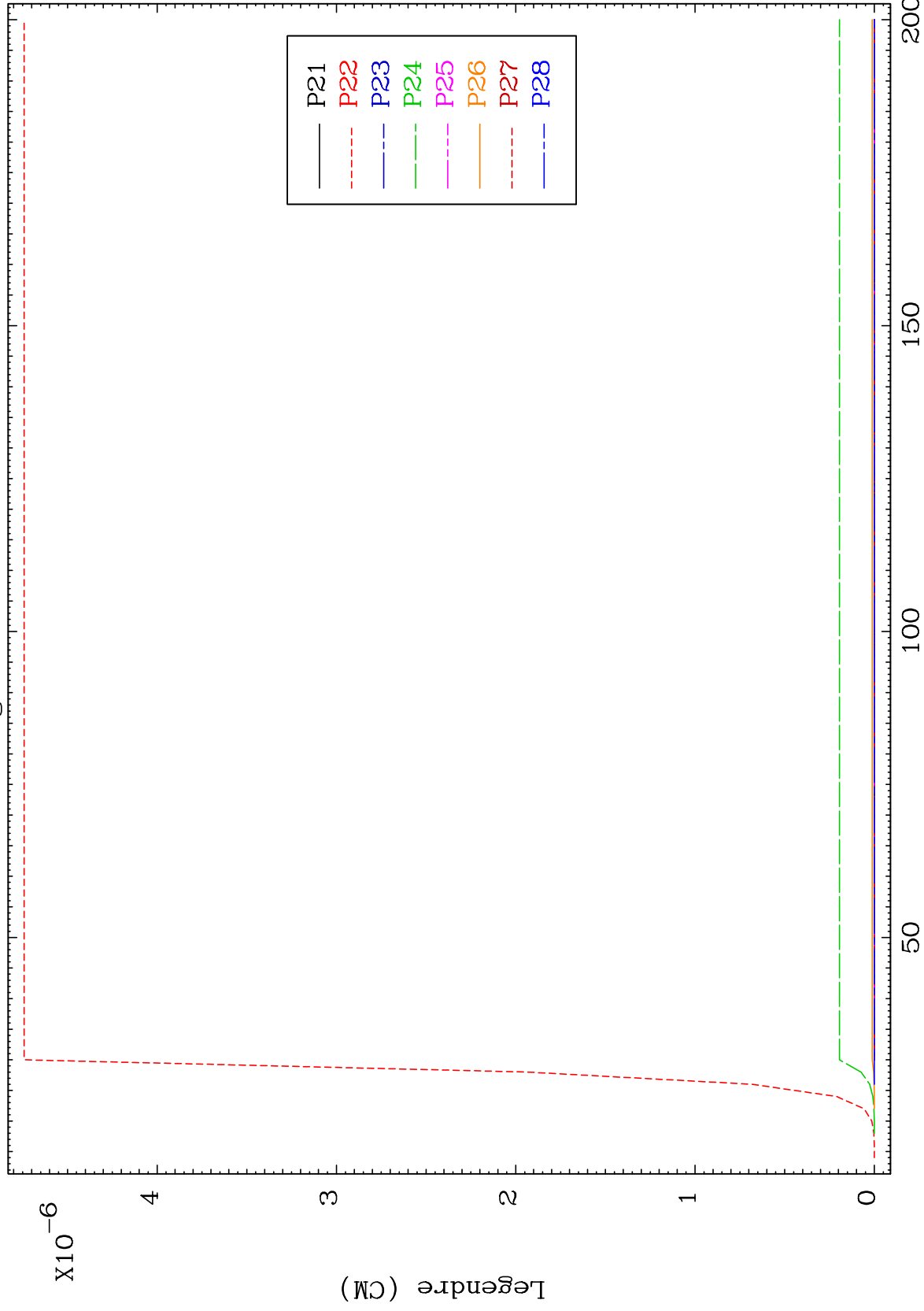
74-W -182



MAT 7431

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

74-W -182



78

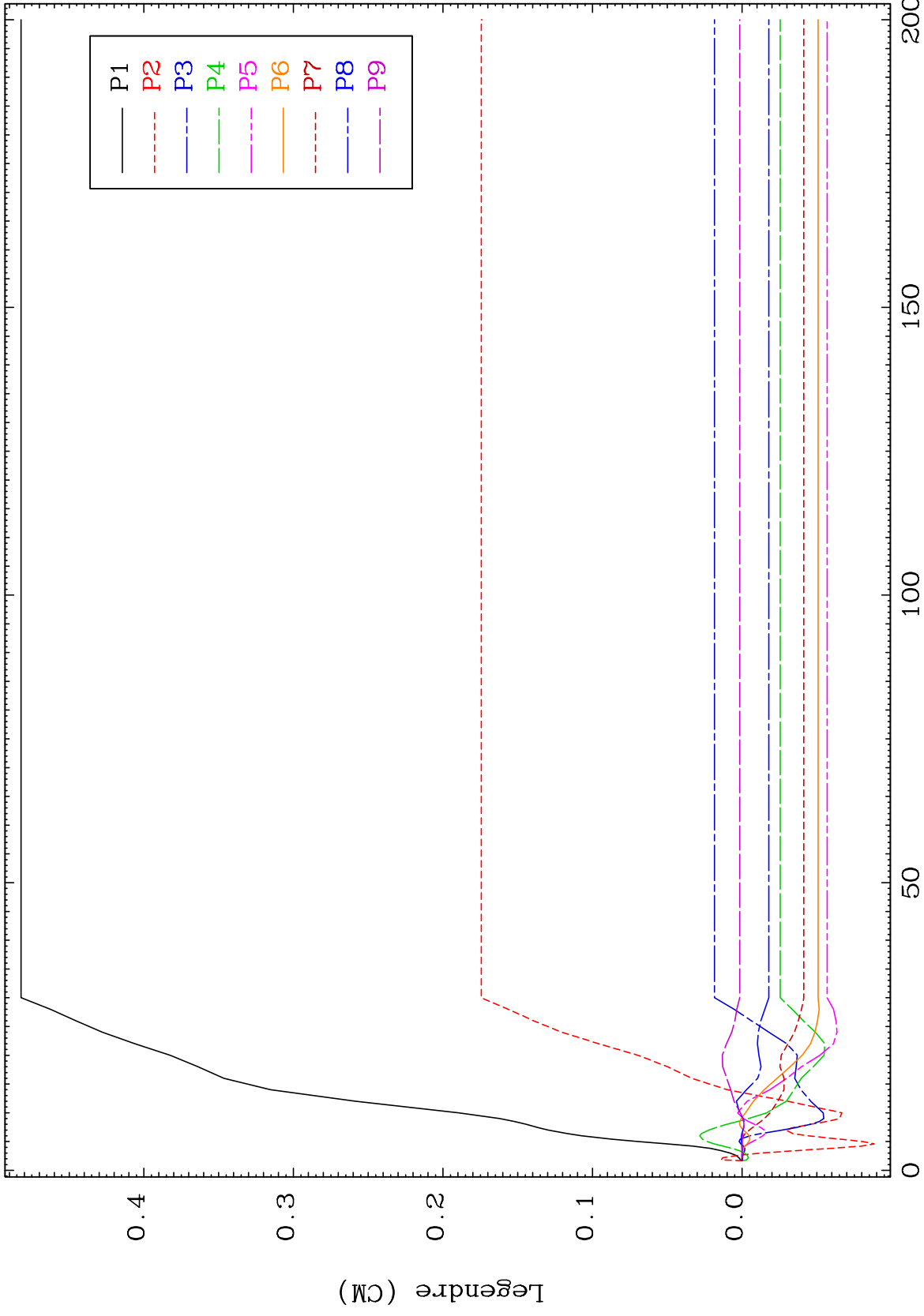
Incident Energy (MeV)

74-W -182

MAT 7431

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

74-W -182



79

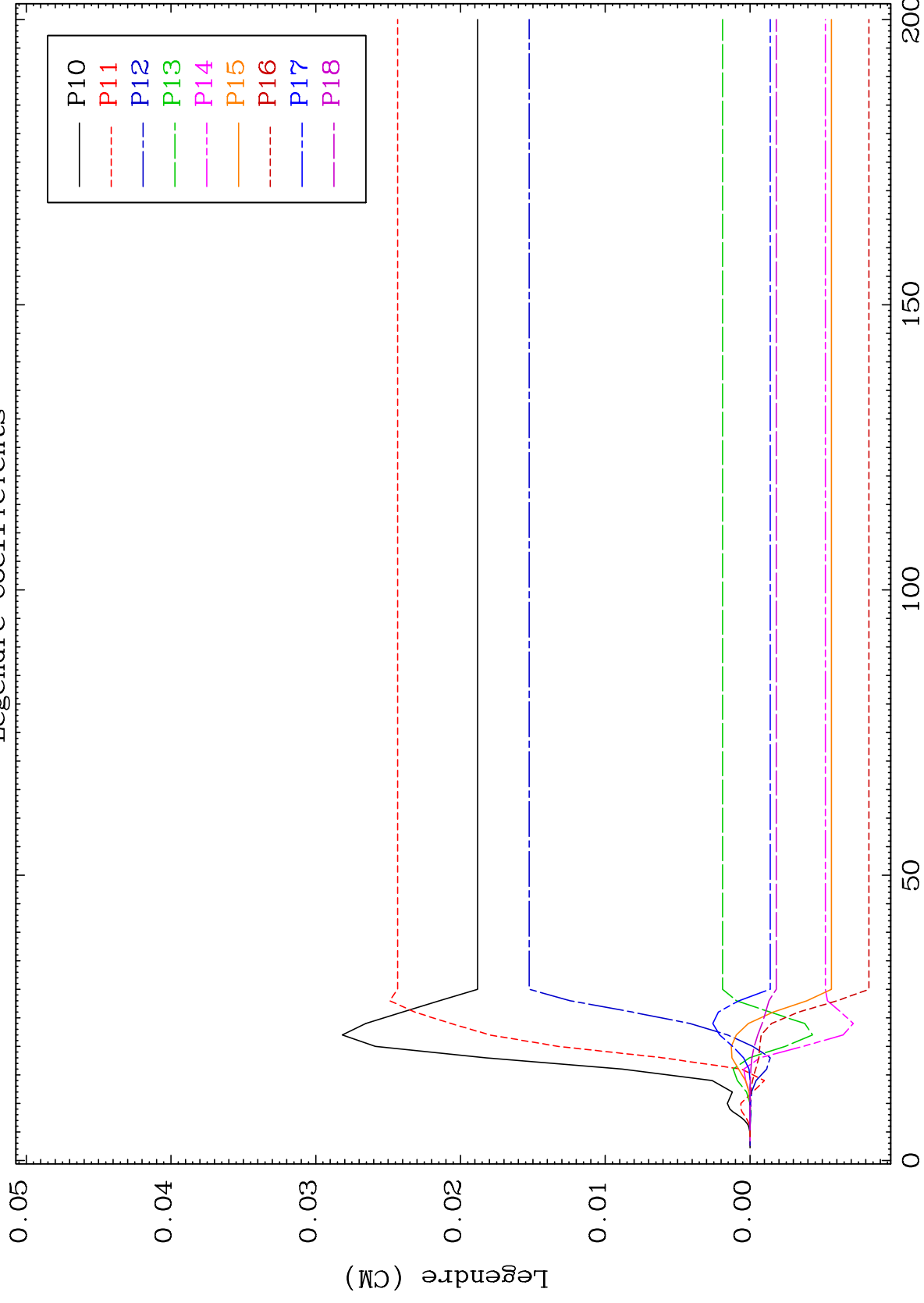
Incident Energy (MeV)

74-W -182

MAT 7431

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

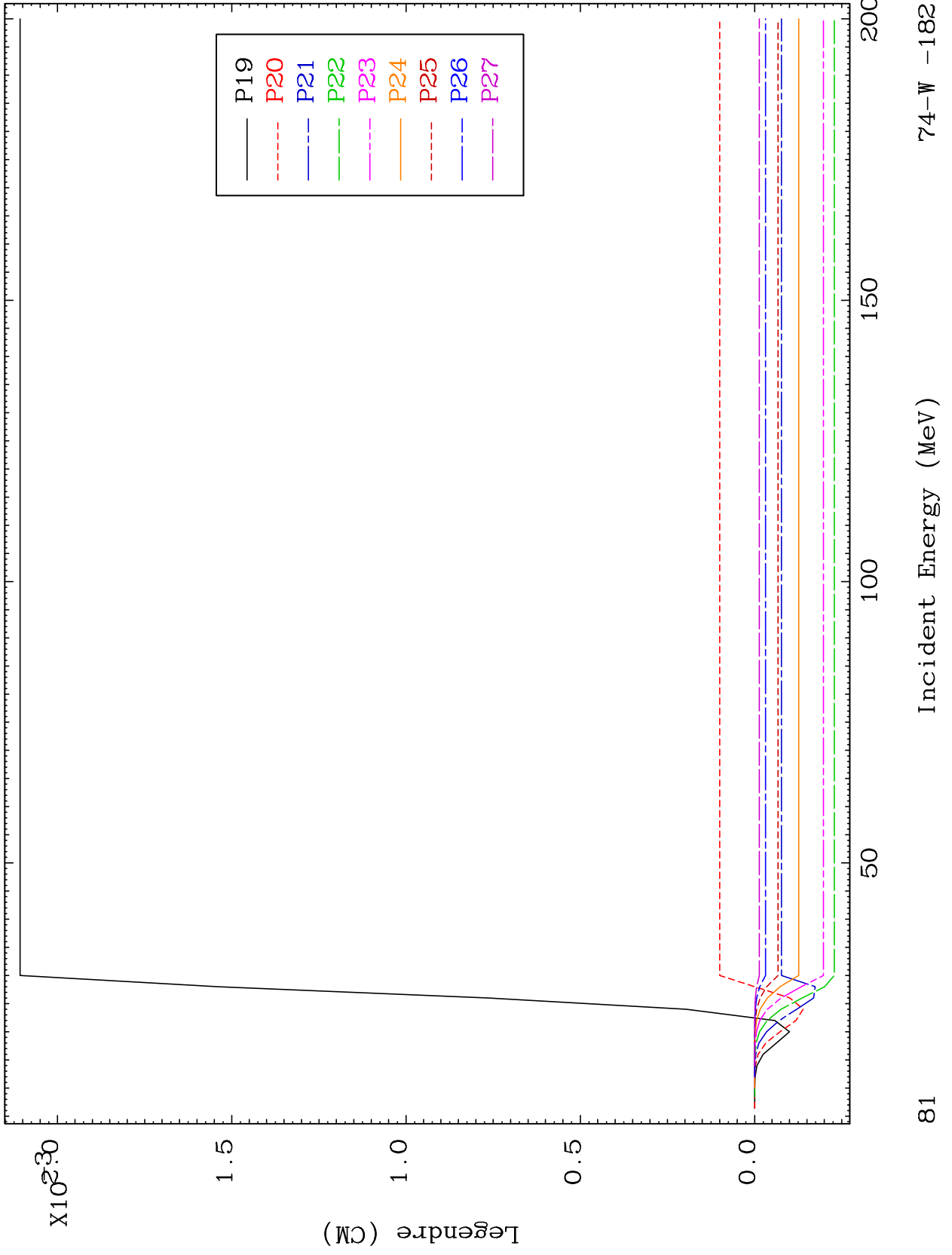
74-W -182



74-W -182

Incident Energy (MeV)

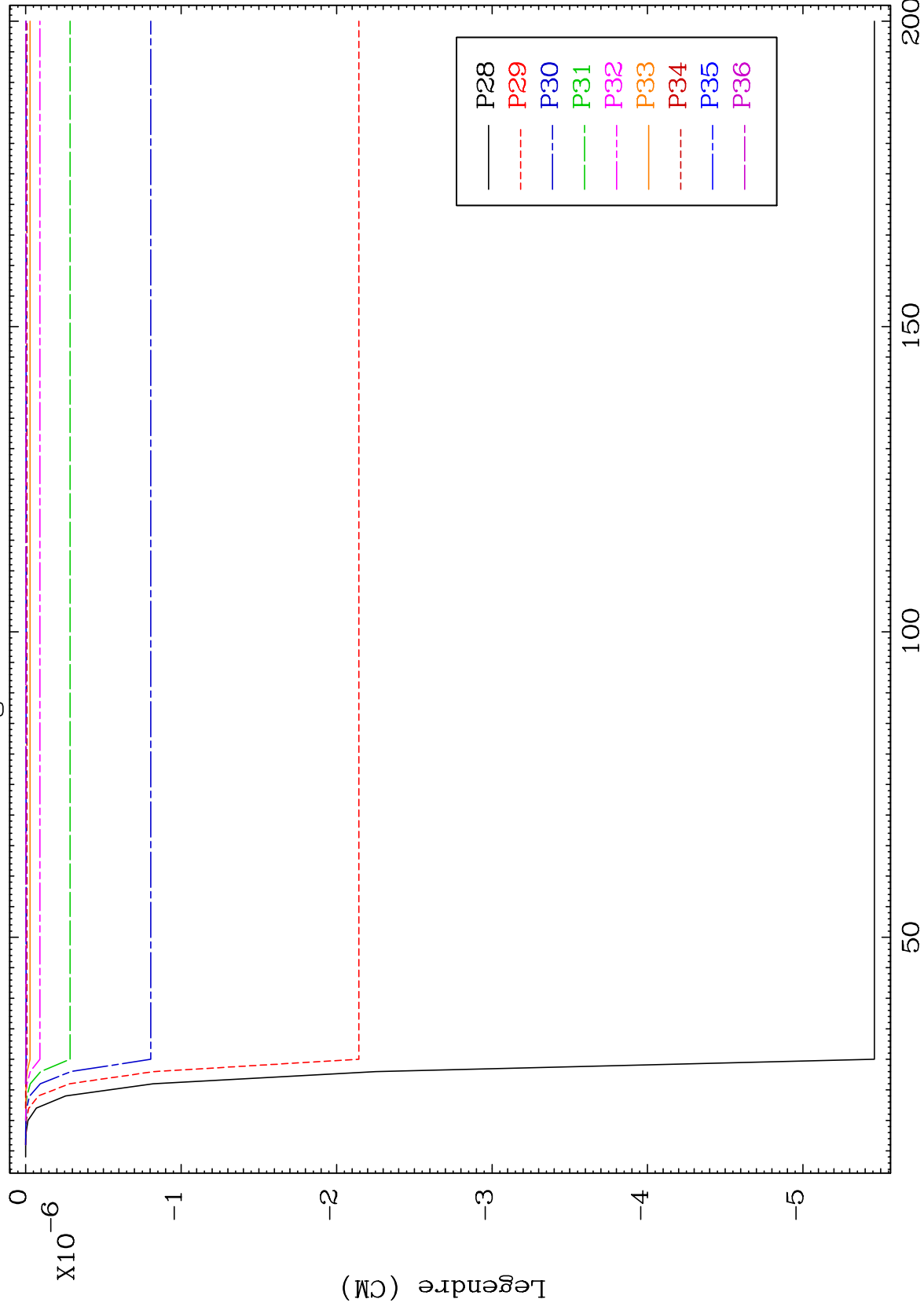
80



MAT 7431

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

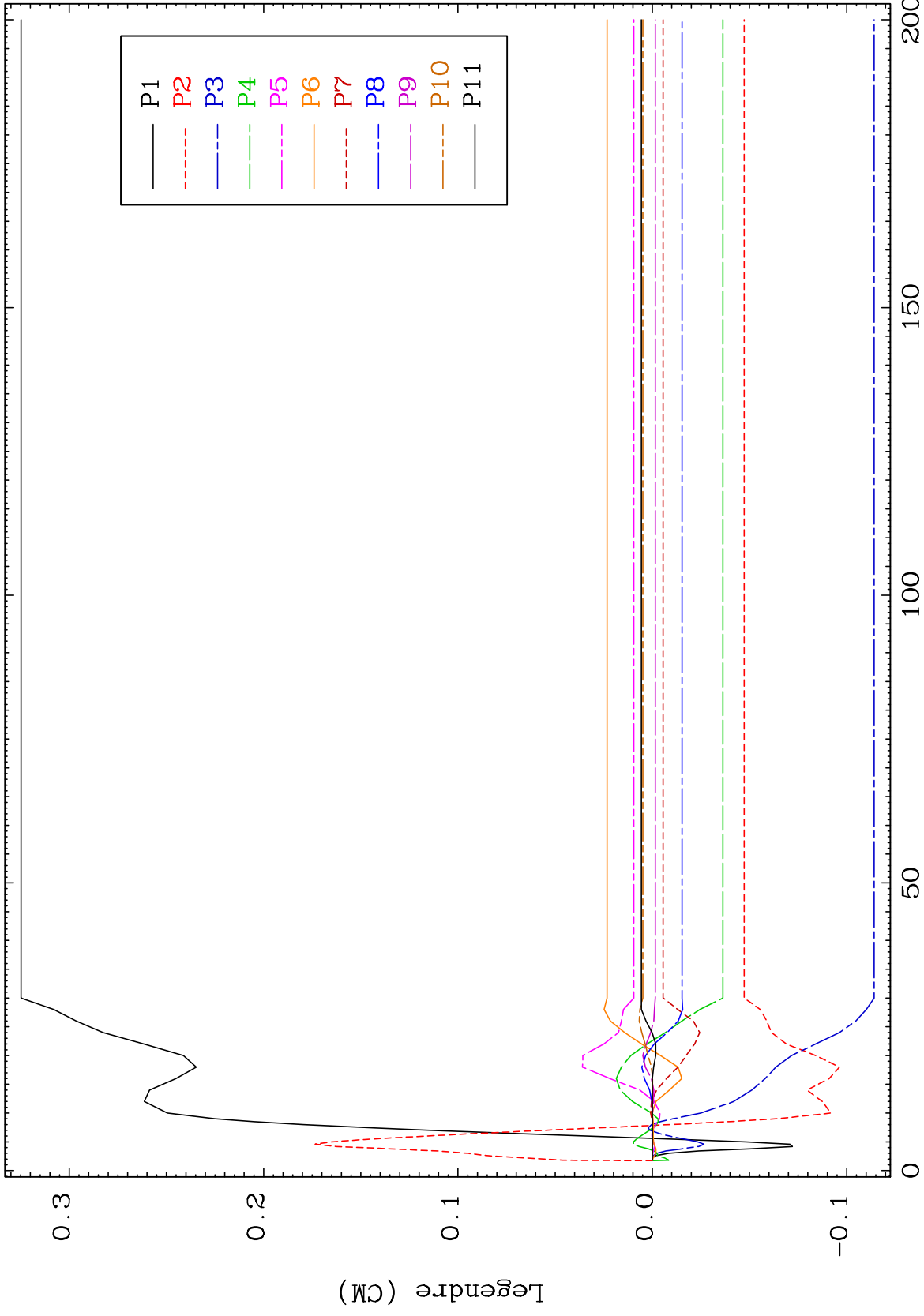
74-W -182



82

Incident Energy (MeV)

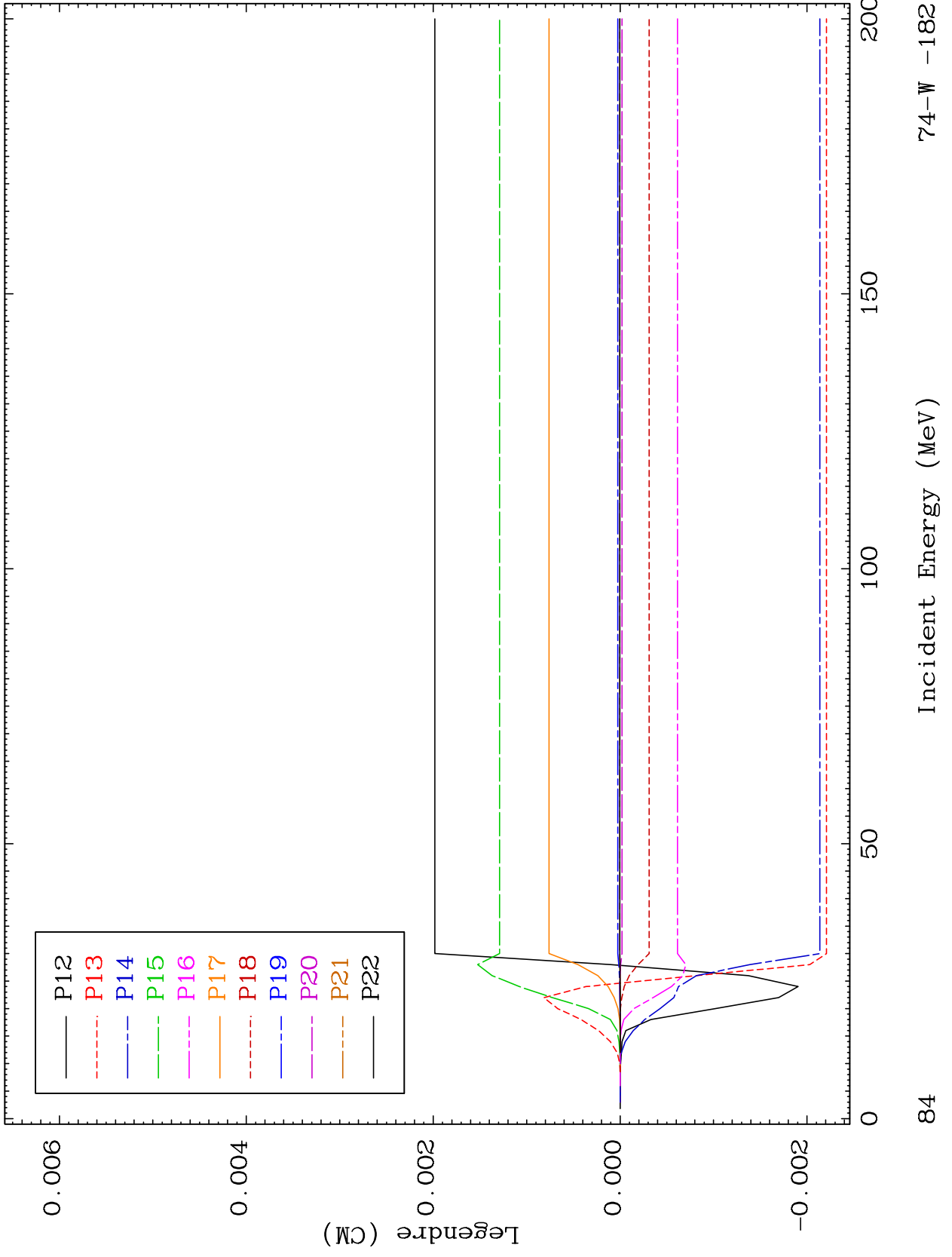
74-W -182



MAT 7431

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

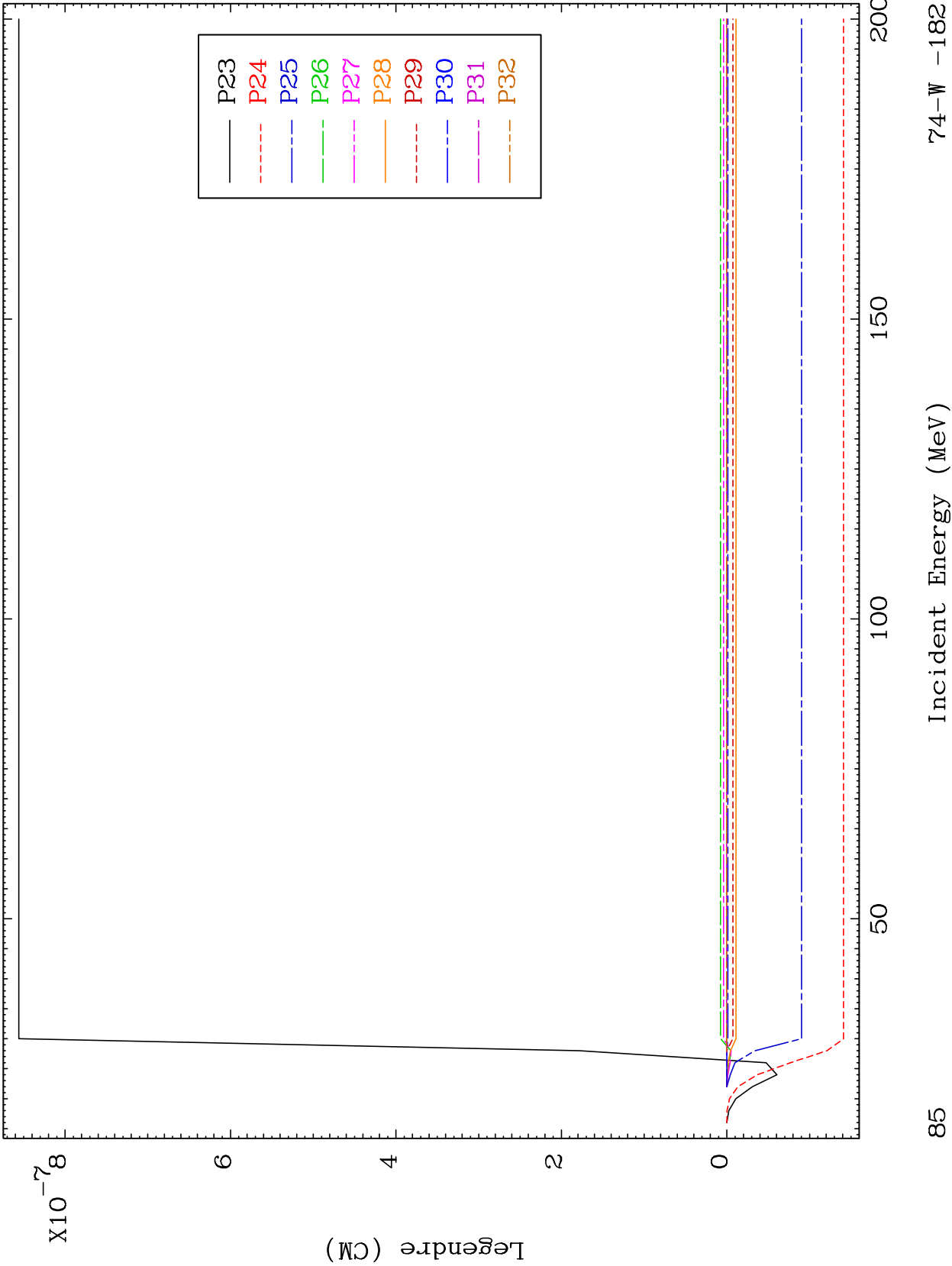
74-W -182

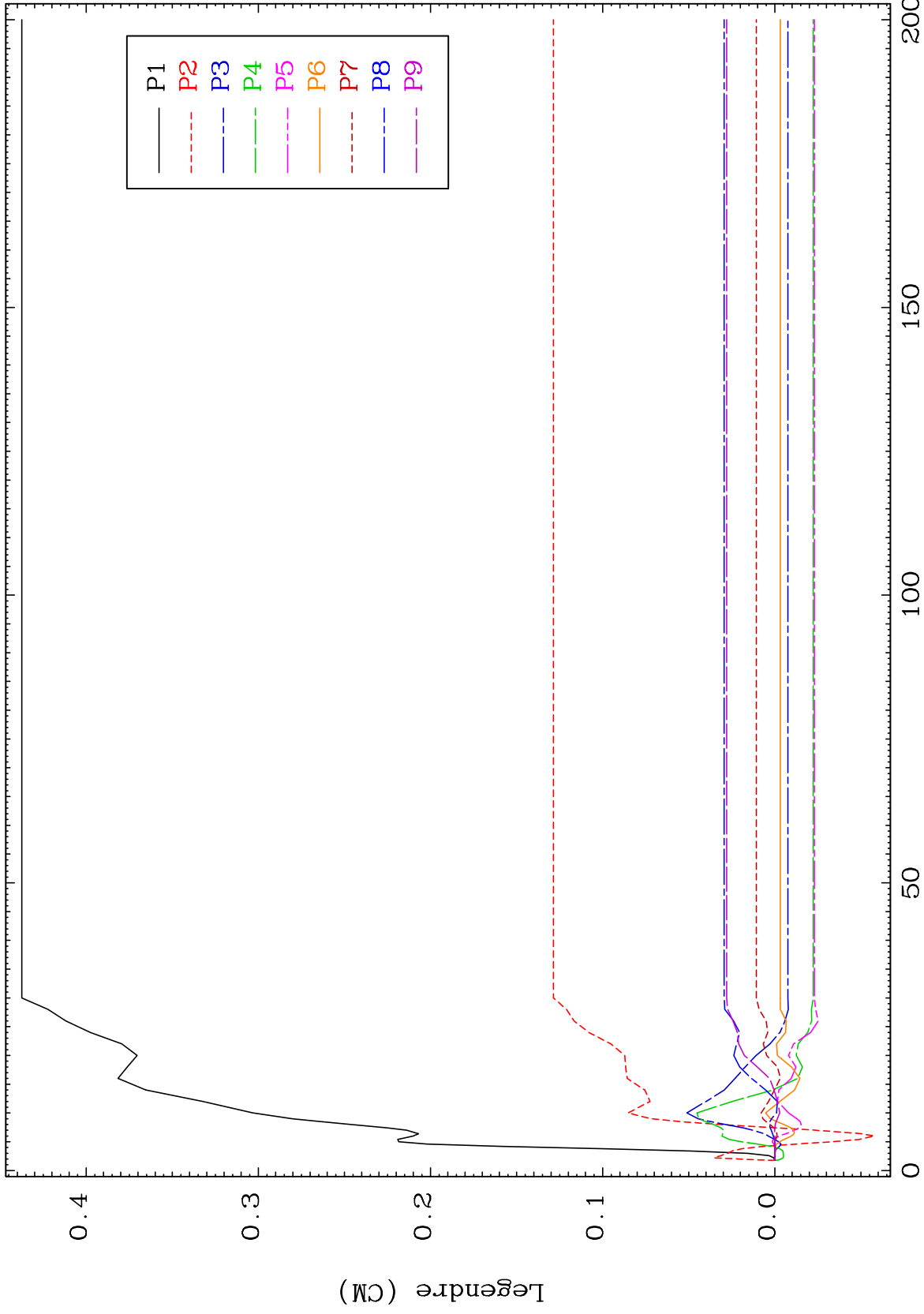


84

Incident Energy (MeV)

74-W -182

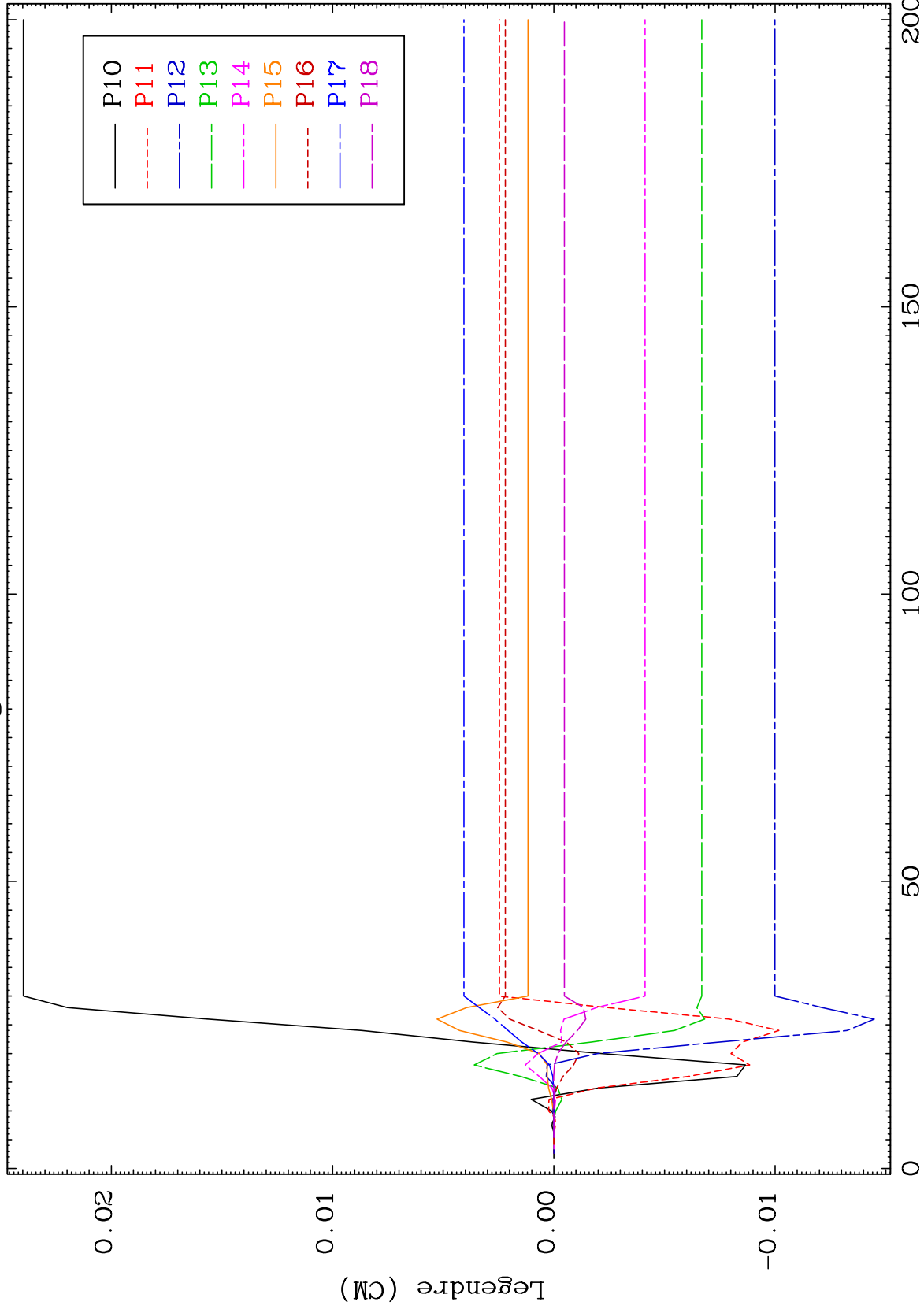




MAT 7431

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

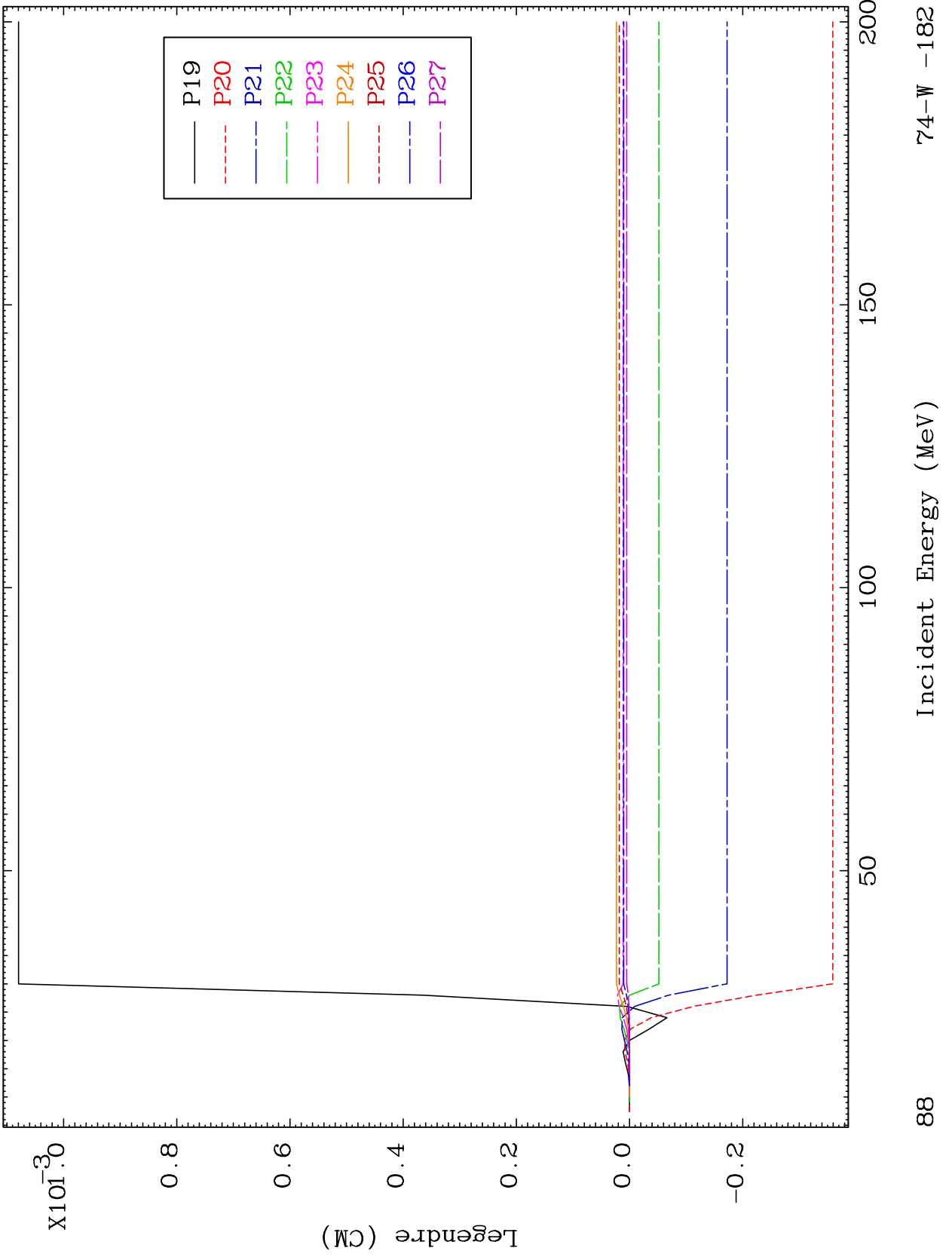
74-W -182

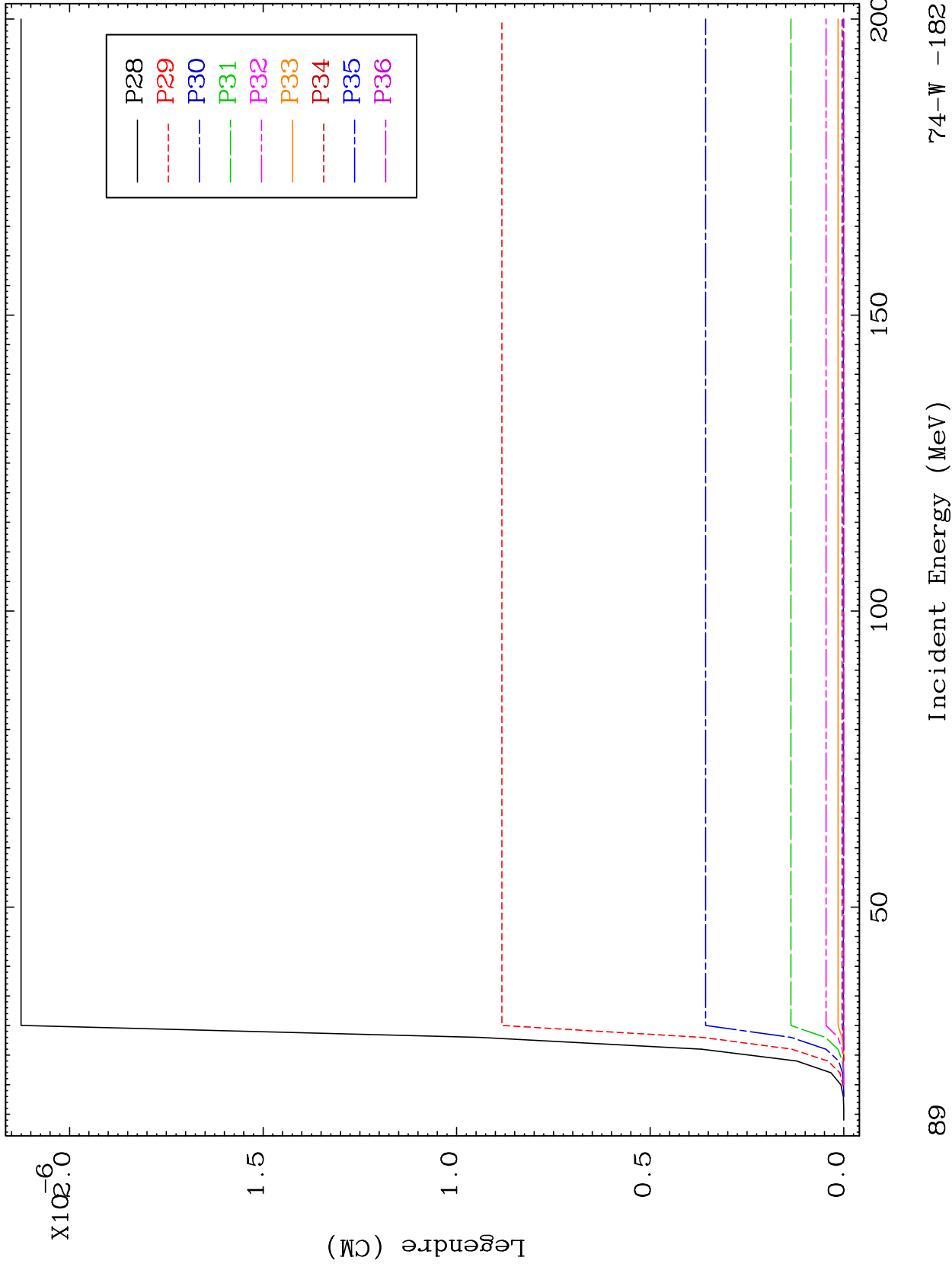


87

Incident Energy (MeV)

74-W -182

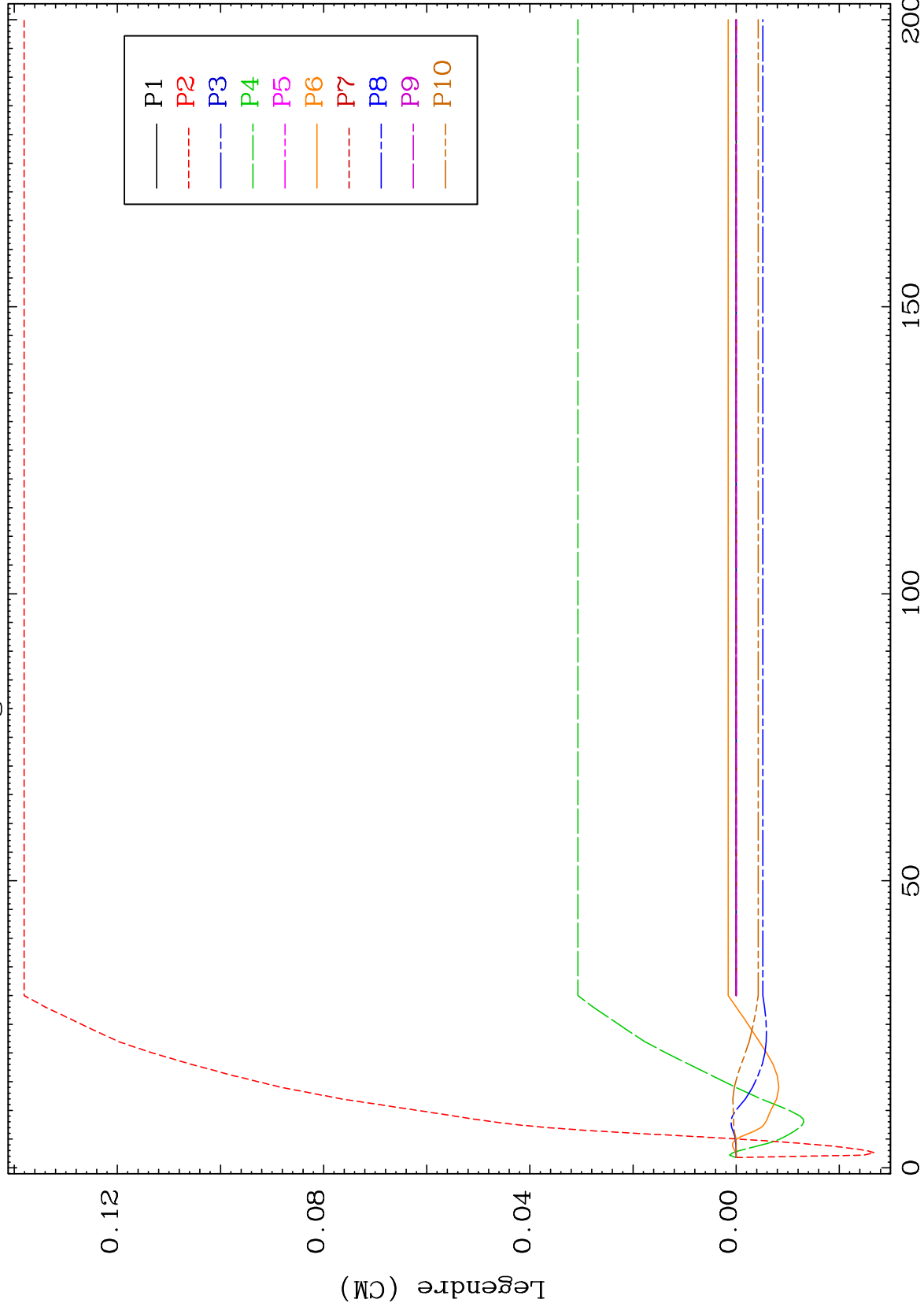




MAT 7431

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

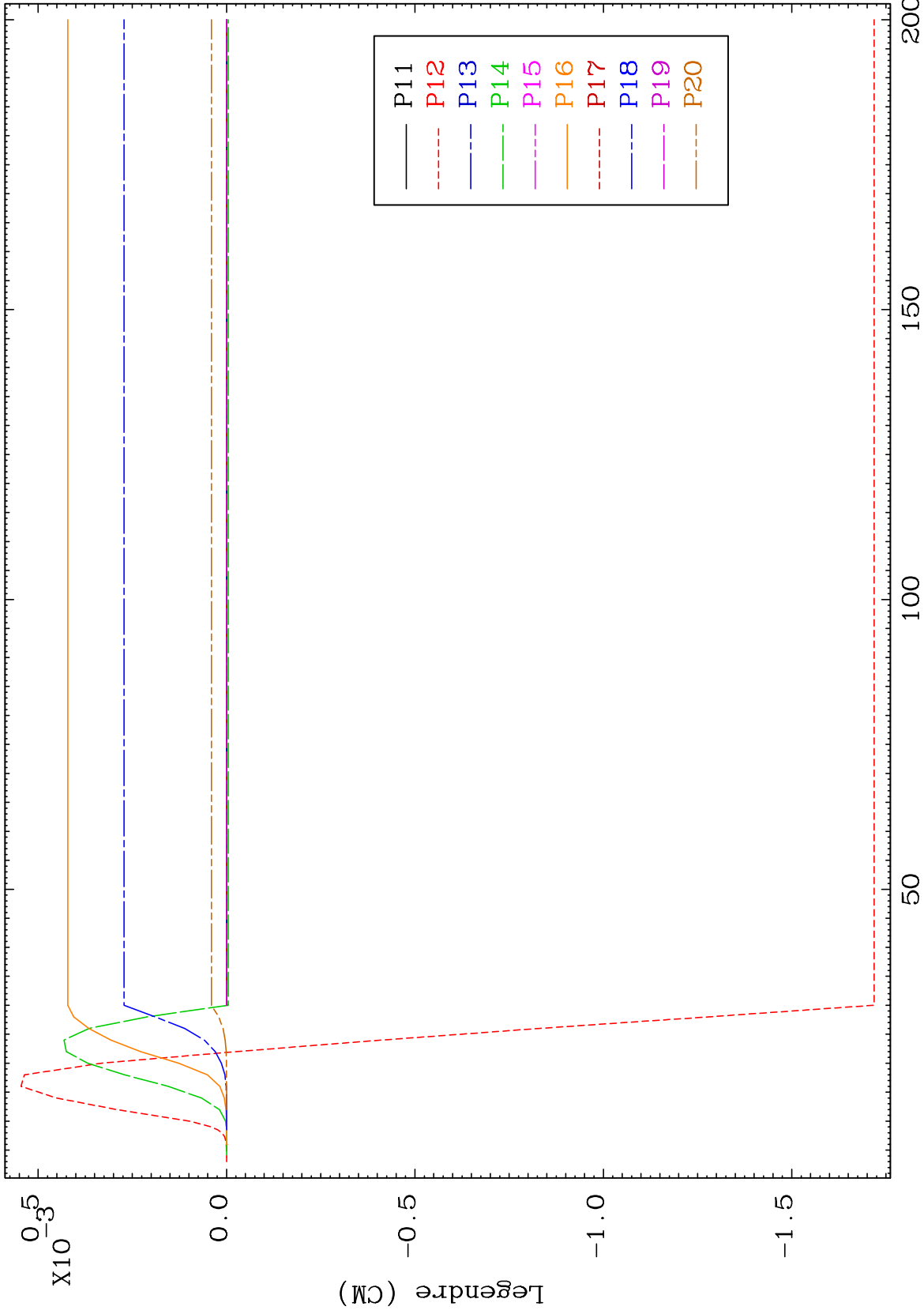
74-W -182



90

Incident Energy (MeV)

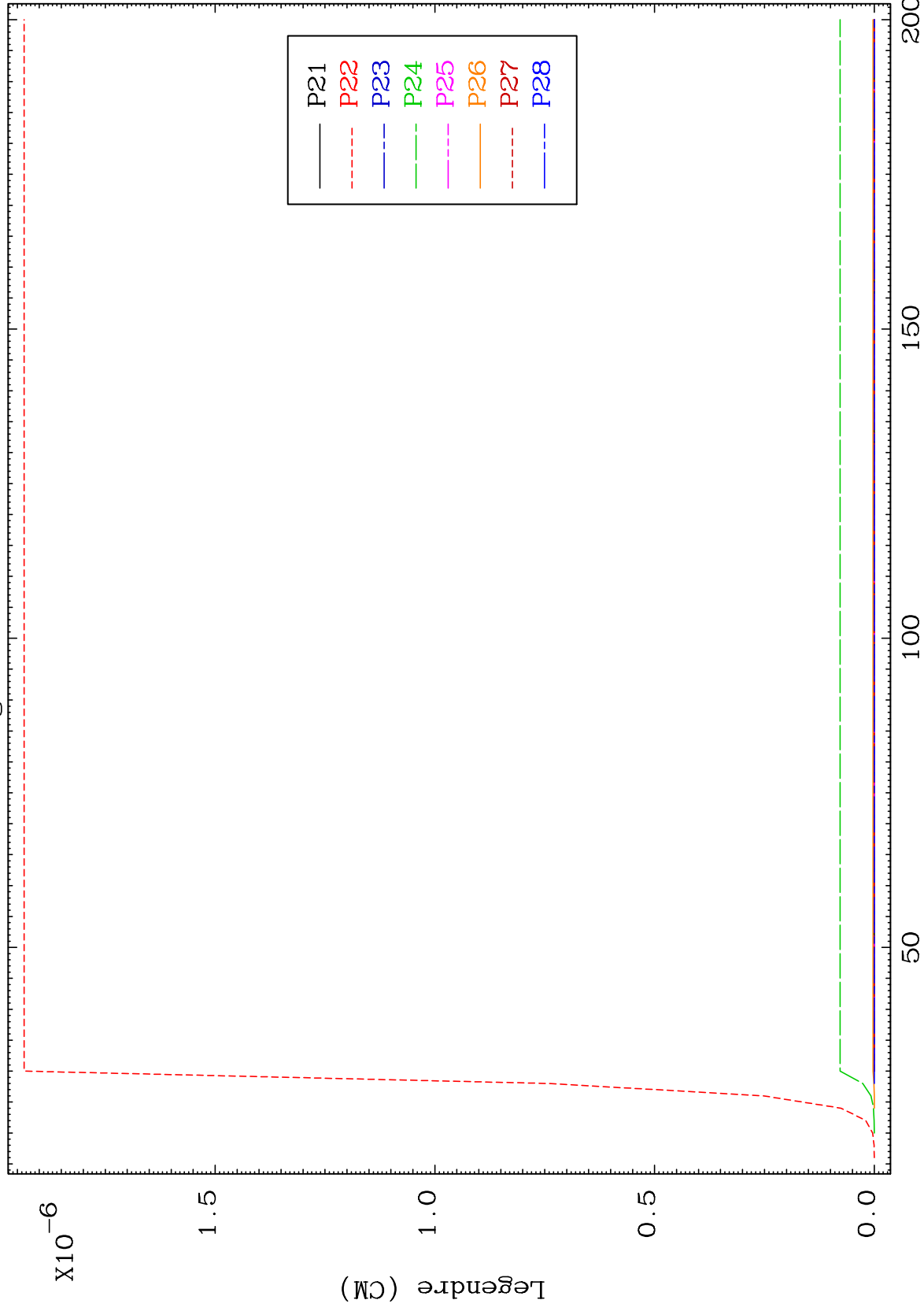
74-W -182



MAT 7431

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

74-W -182



92

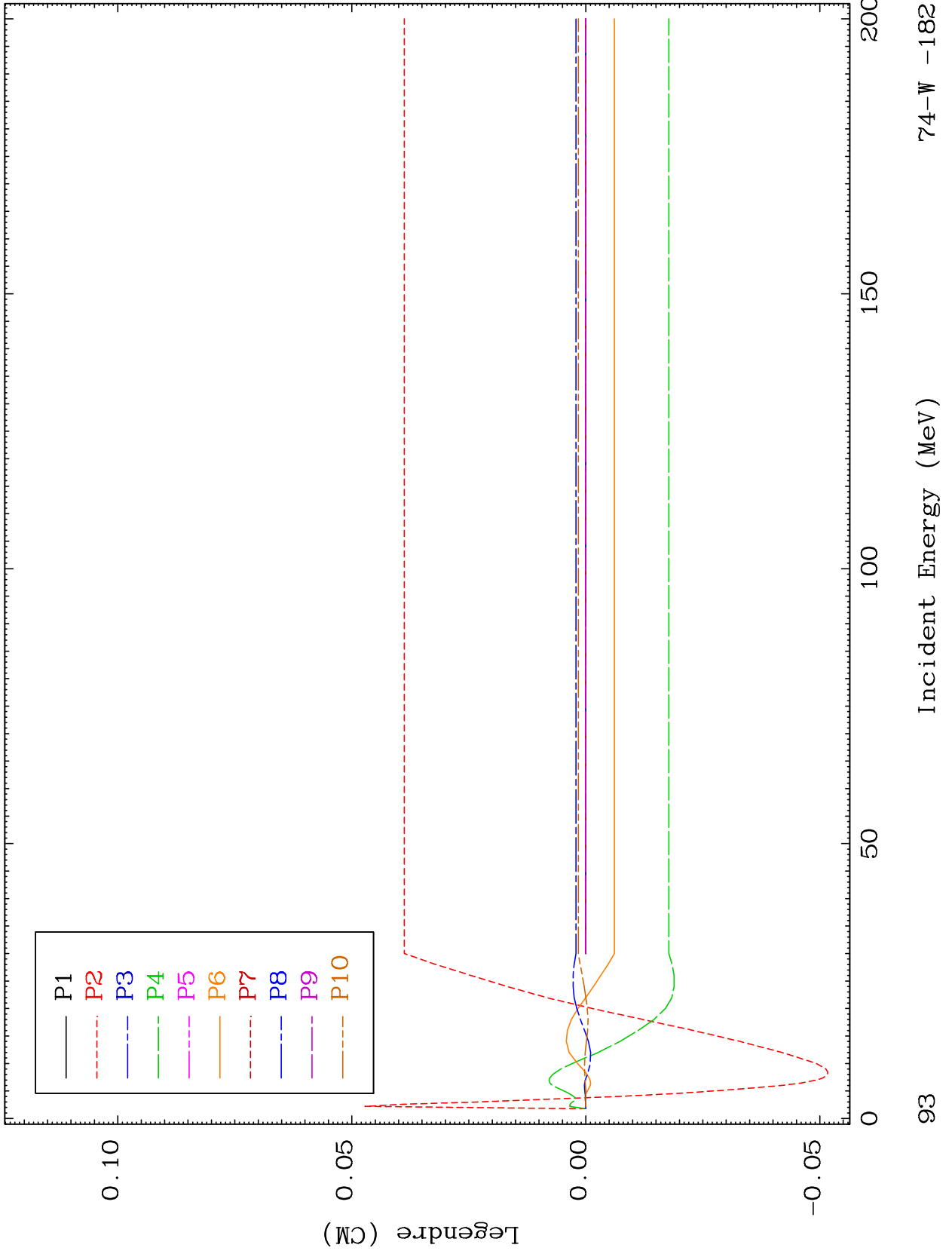
Incident Energy (MeV)

74-W -182

MAT 7431

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

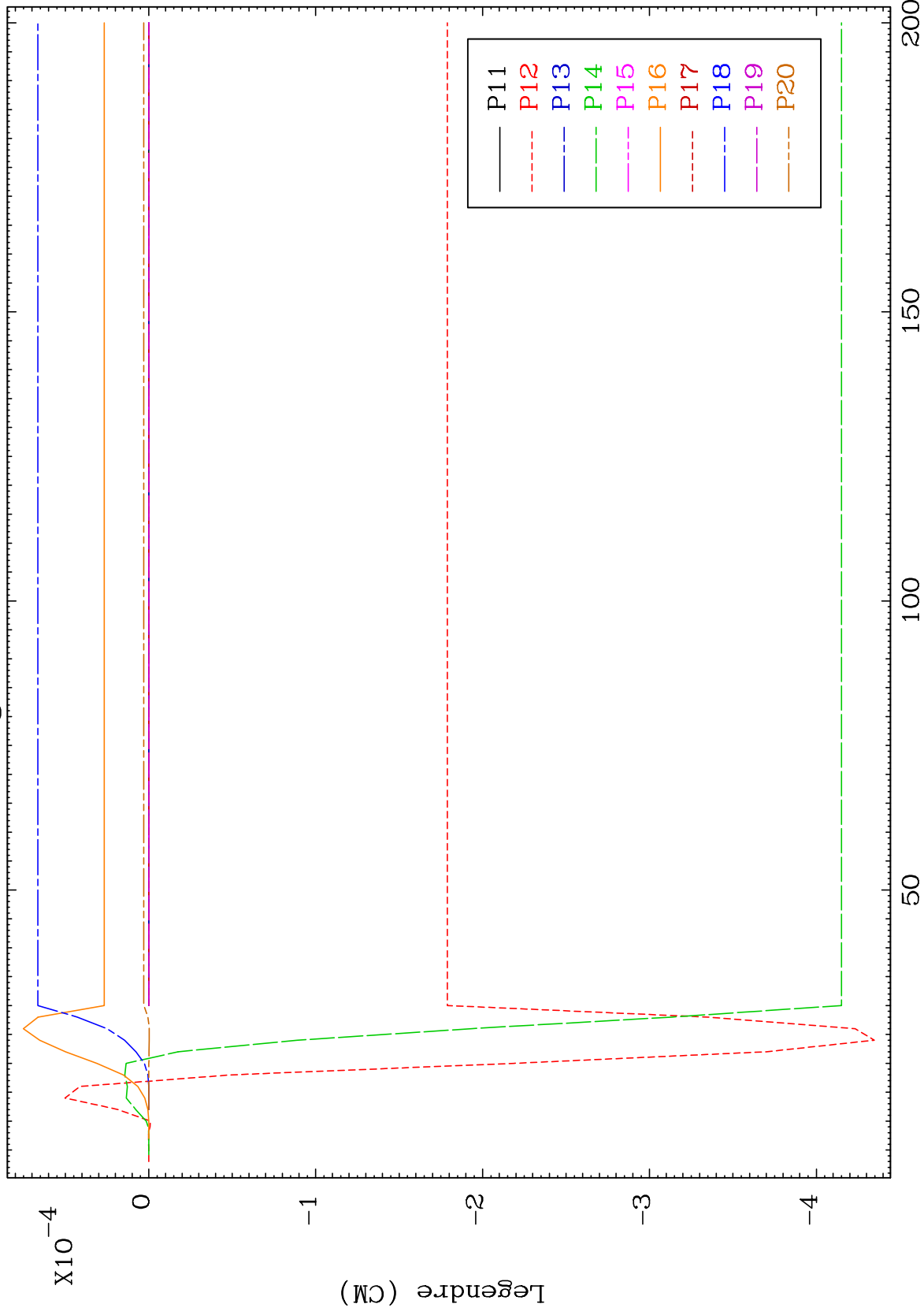
74-W -182



93

Incident Energy (MeV)

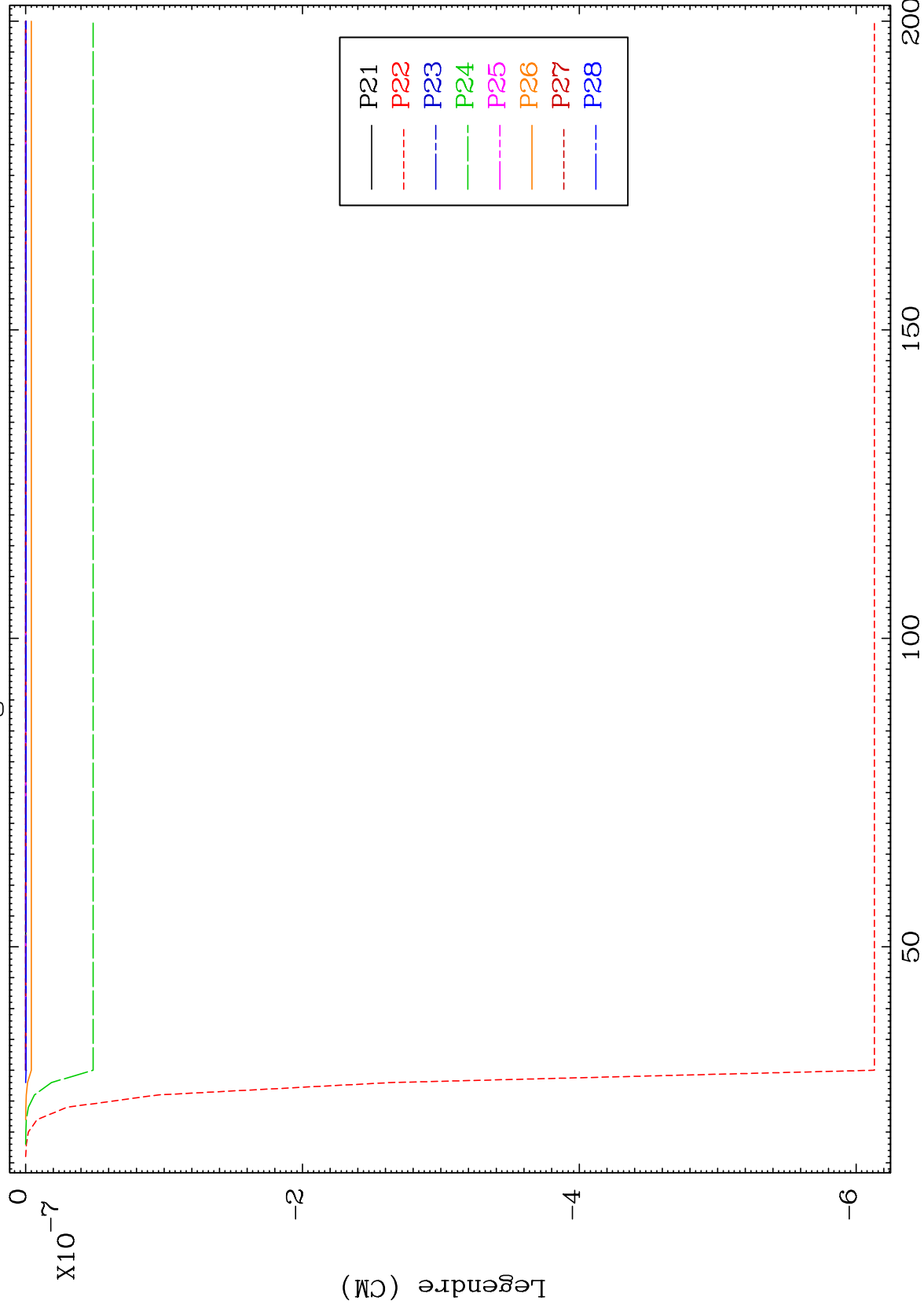
74-W -182



MAT 7431

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

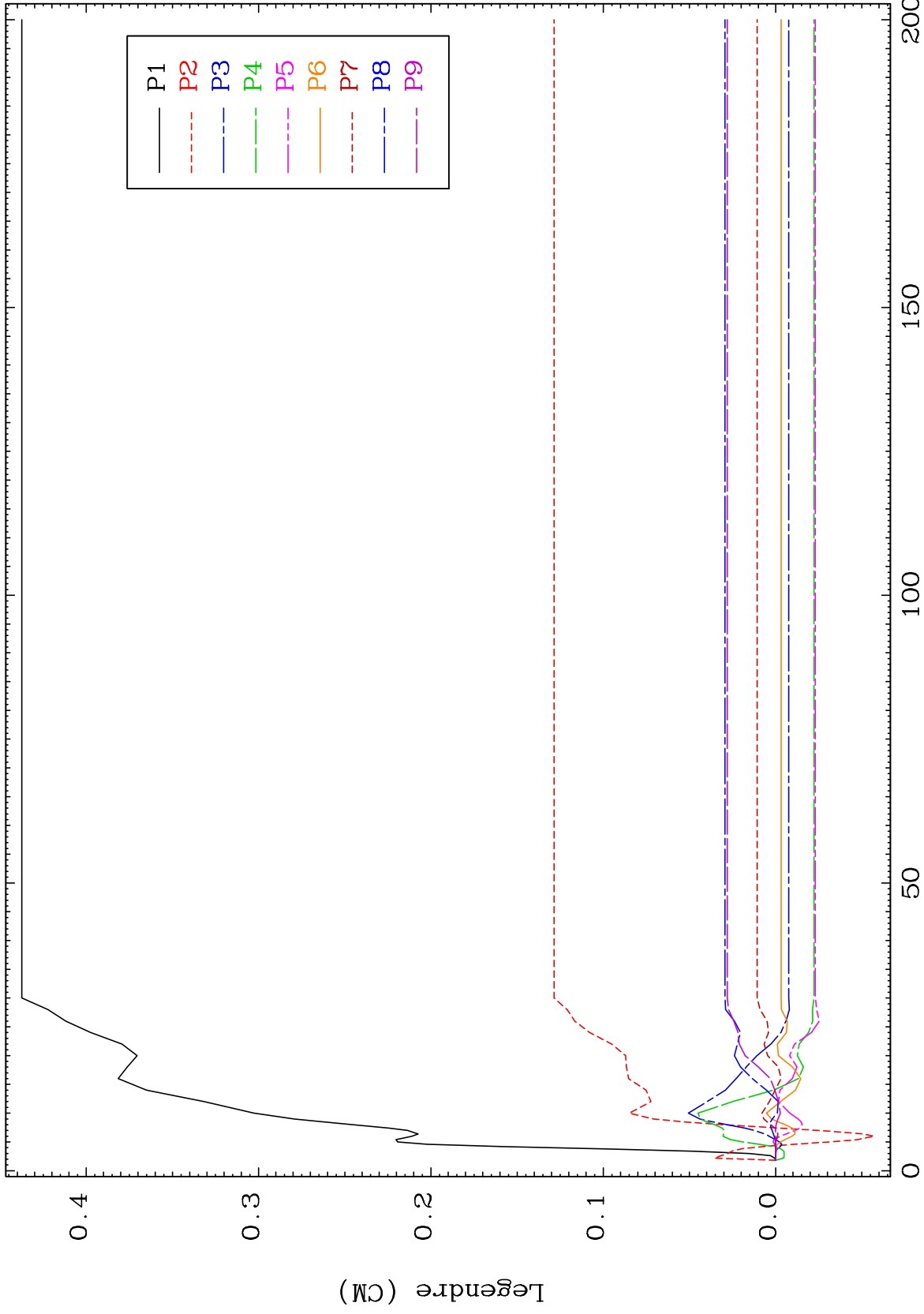
74-W -182



95

Incident Energy (MeV)

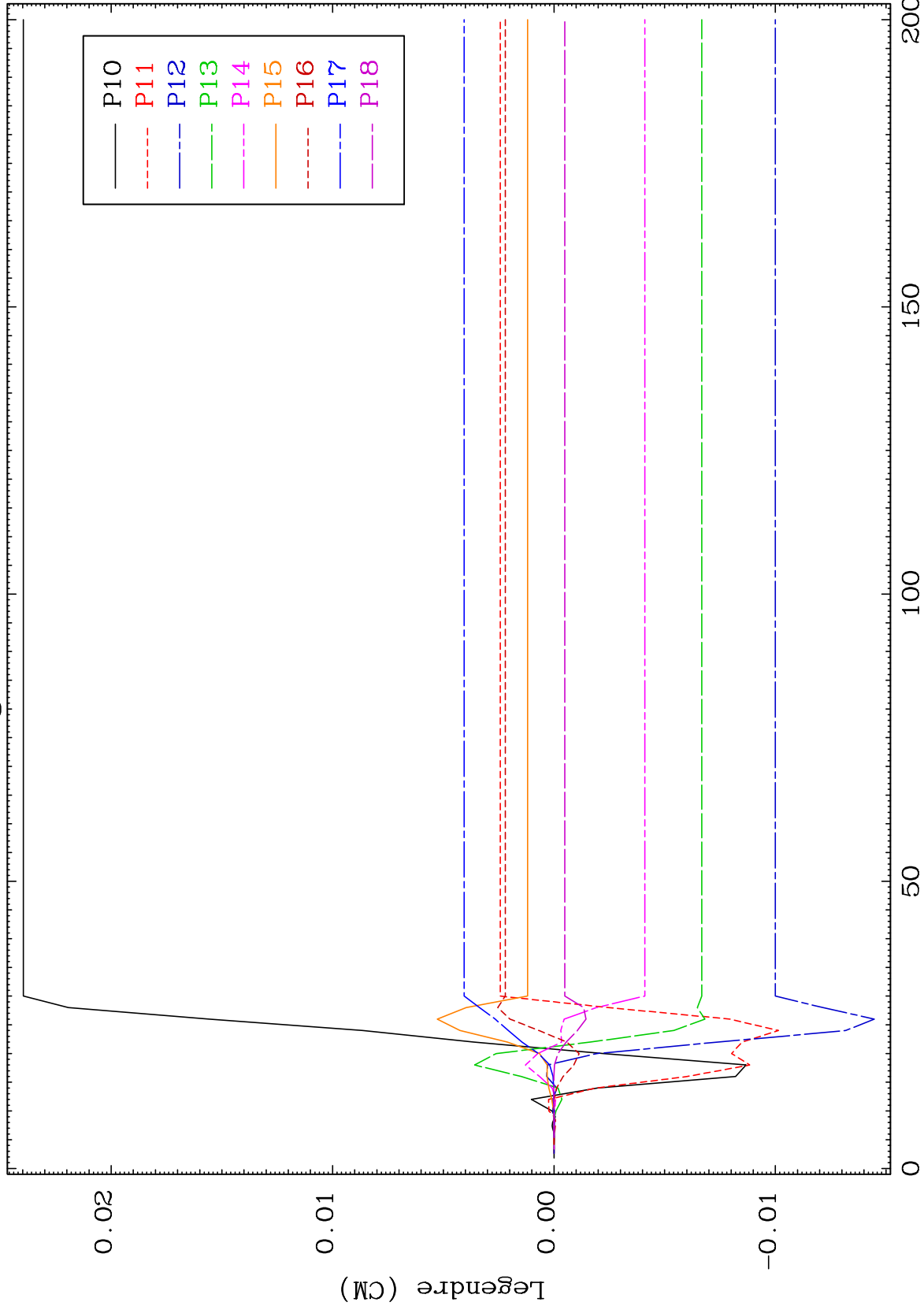
74-W -182



MAT 7431

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

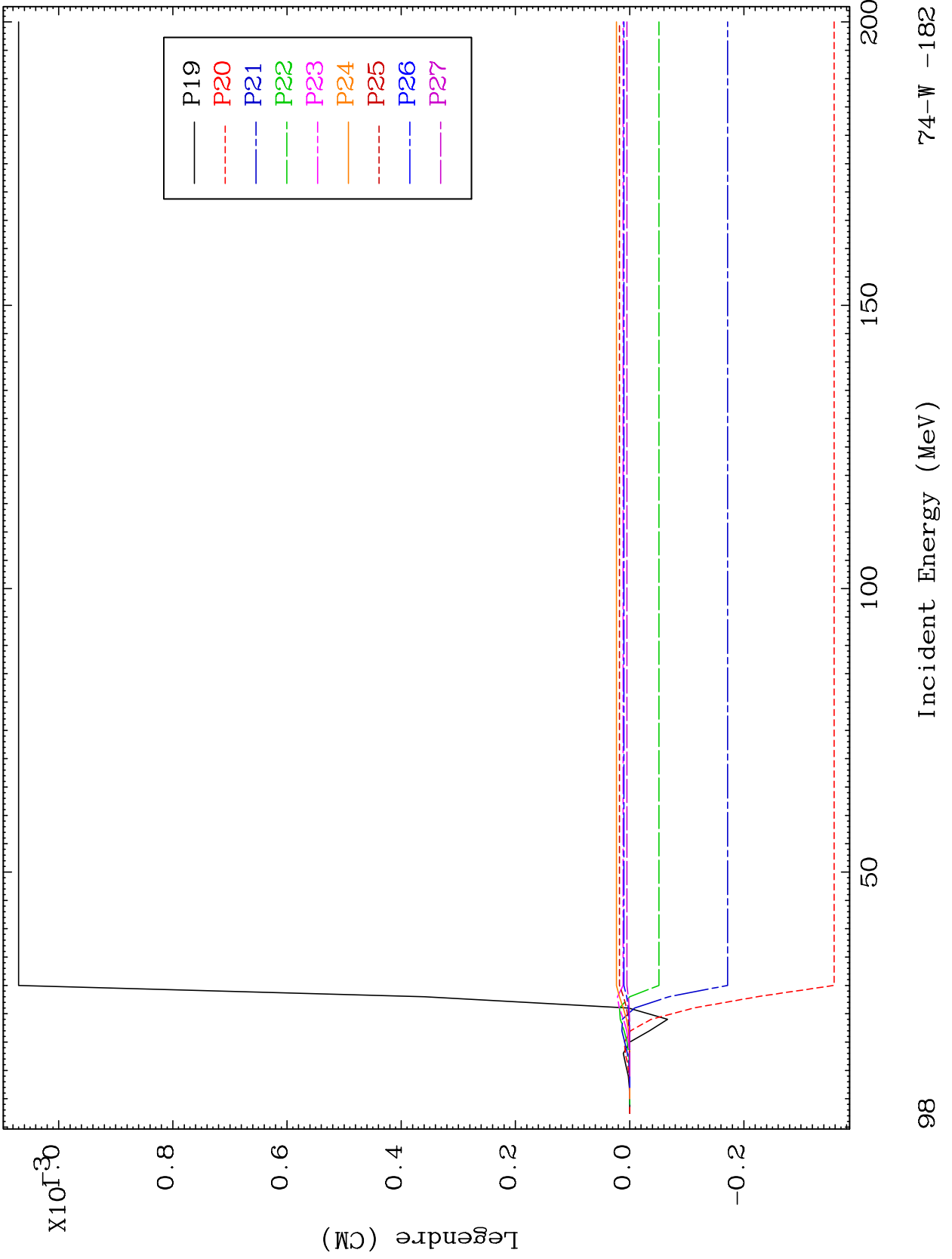
74-W -182

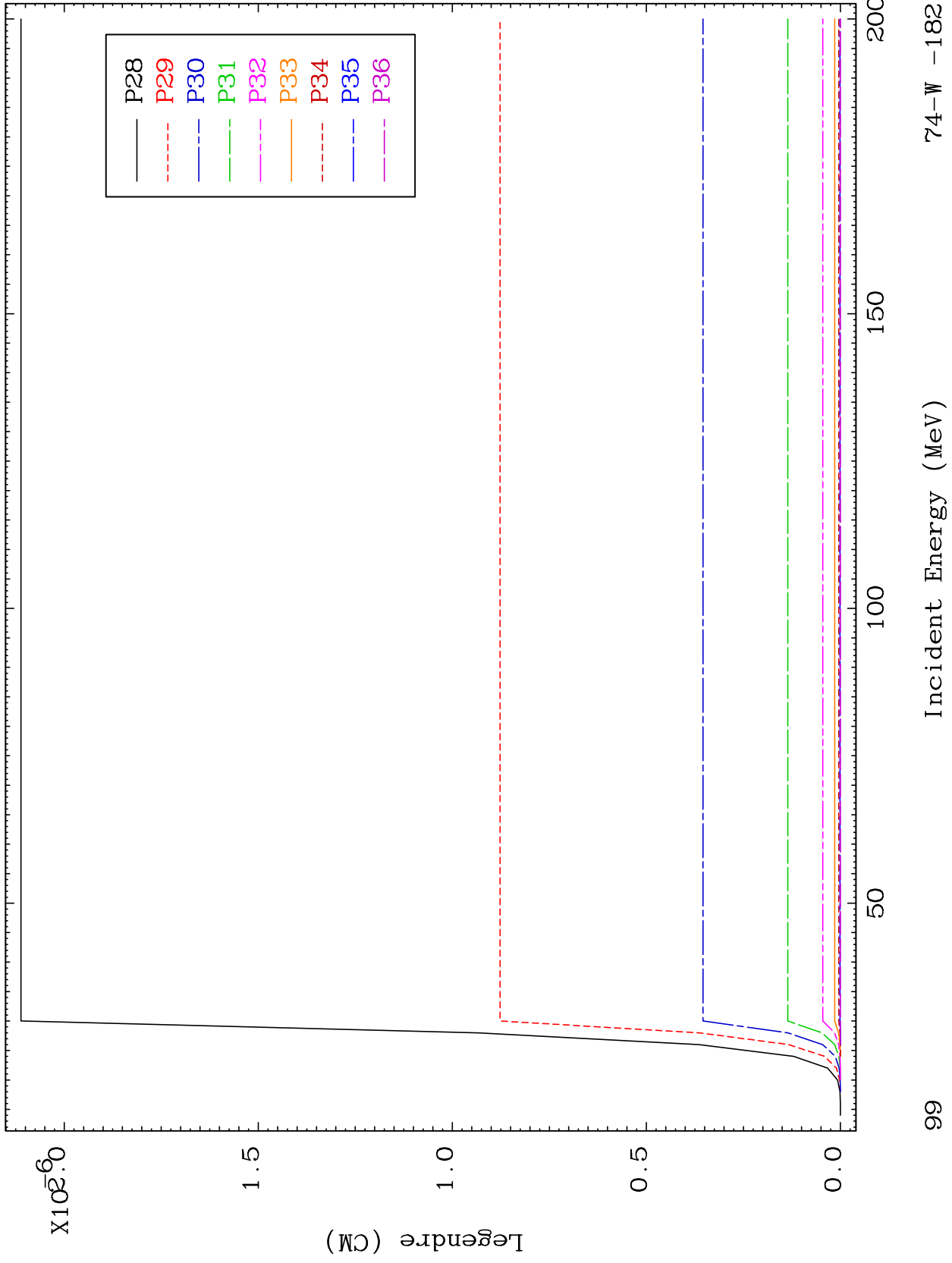


97

Incident Energy (MeV)

74-W -182



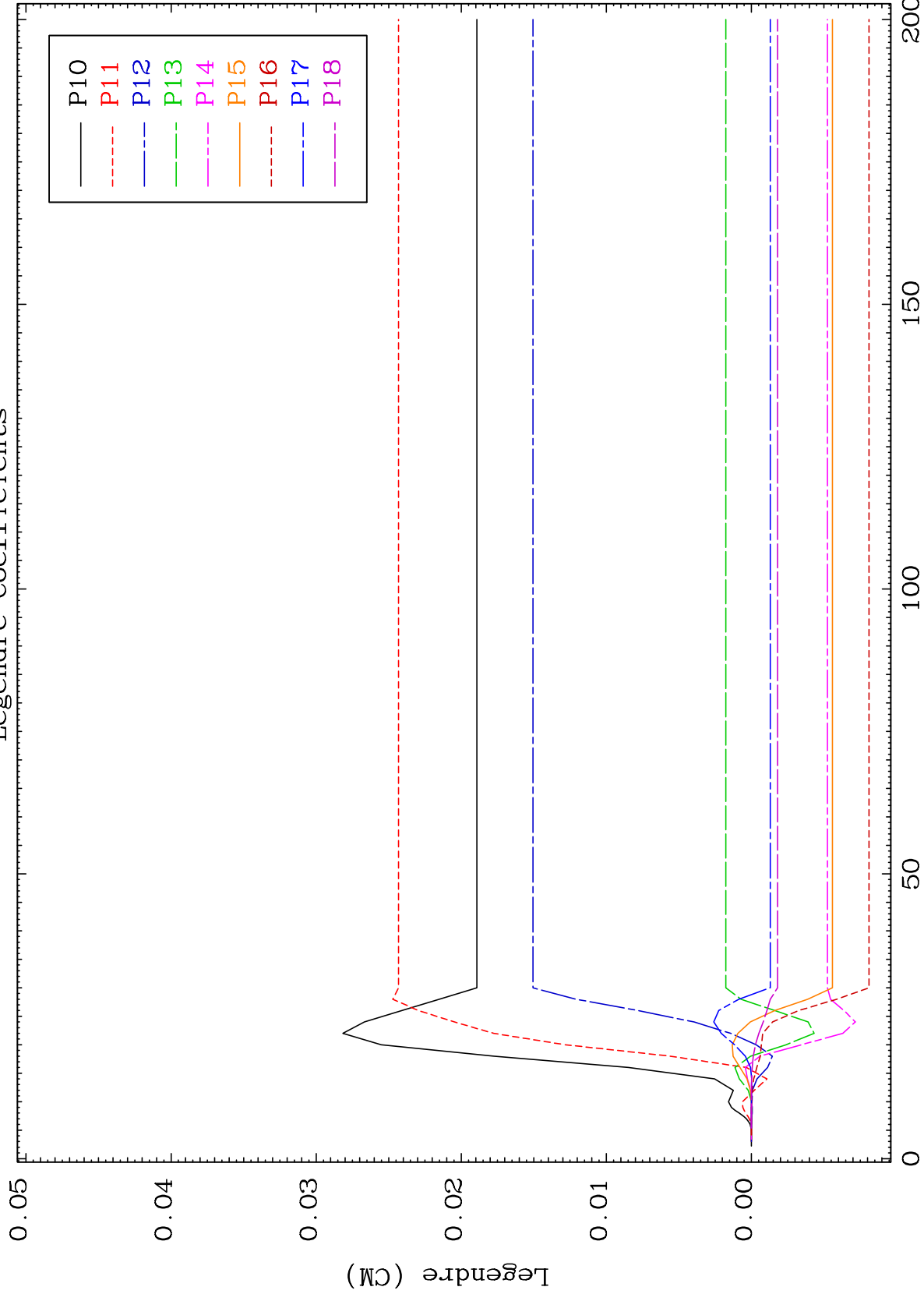




MAT 7431

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

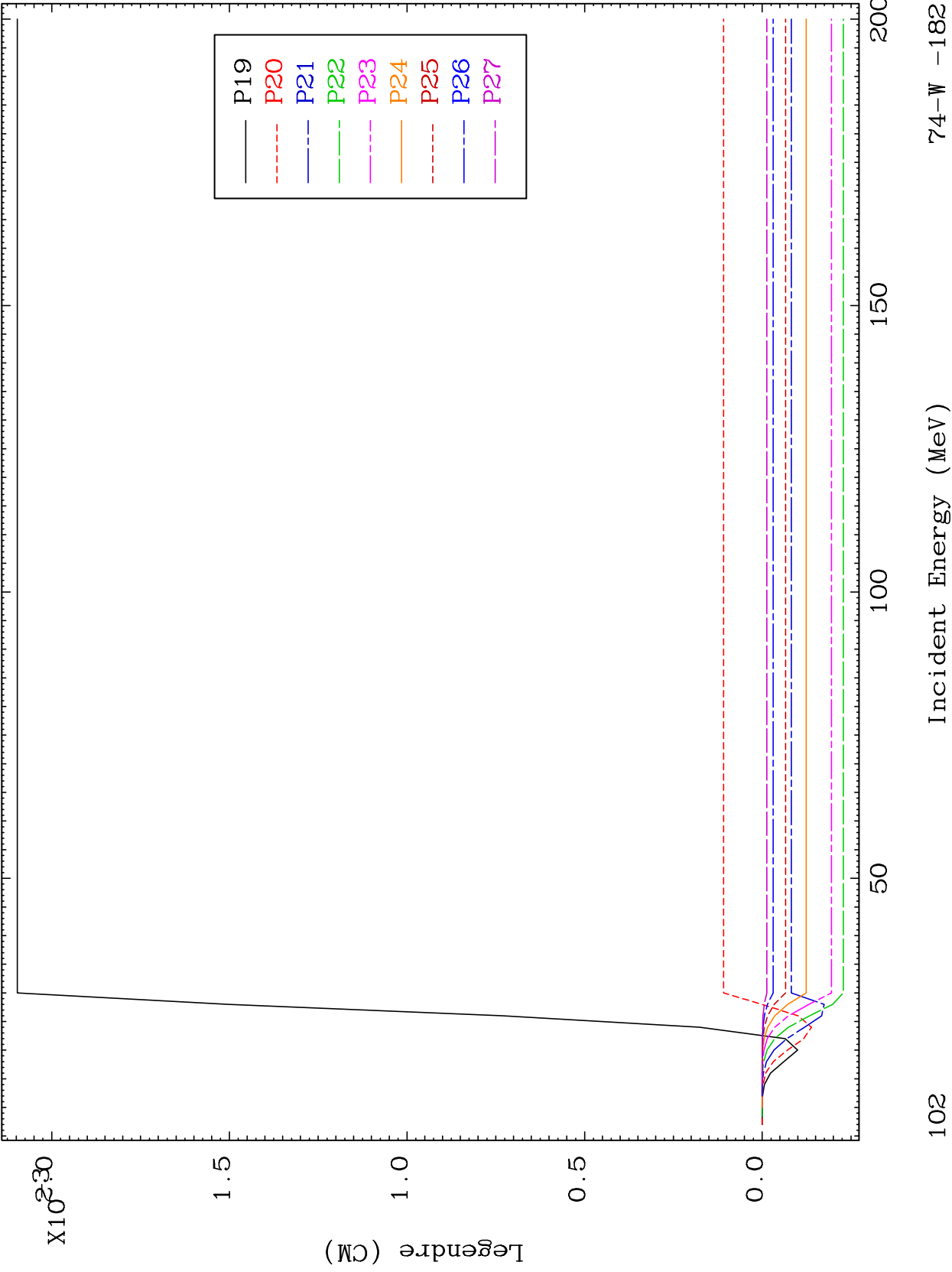
74-W -182



101

Incident Energy (MeV)

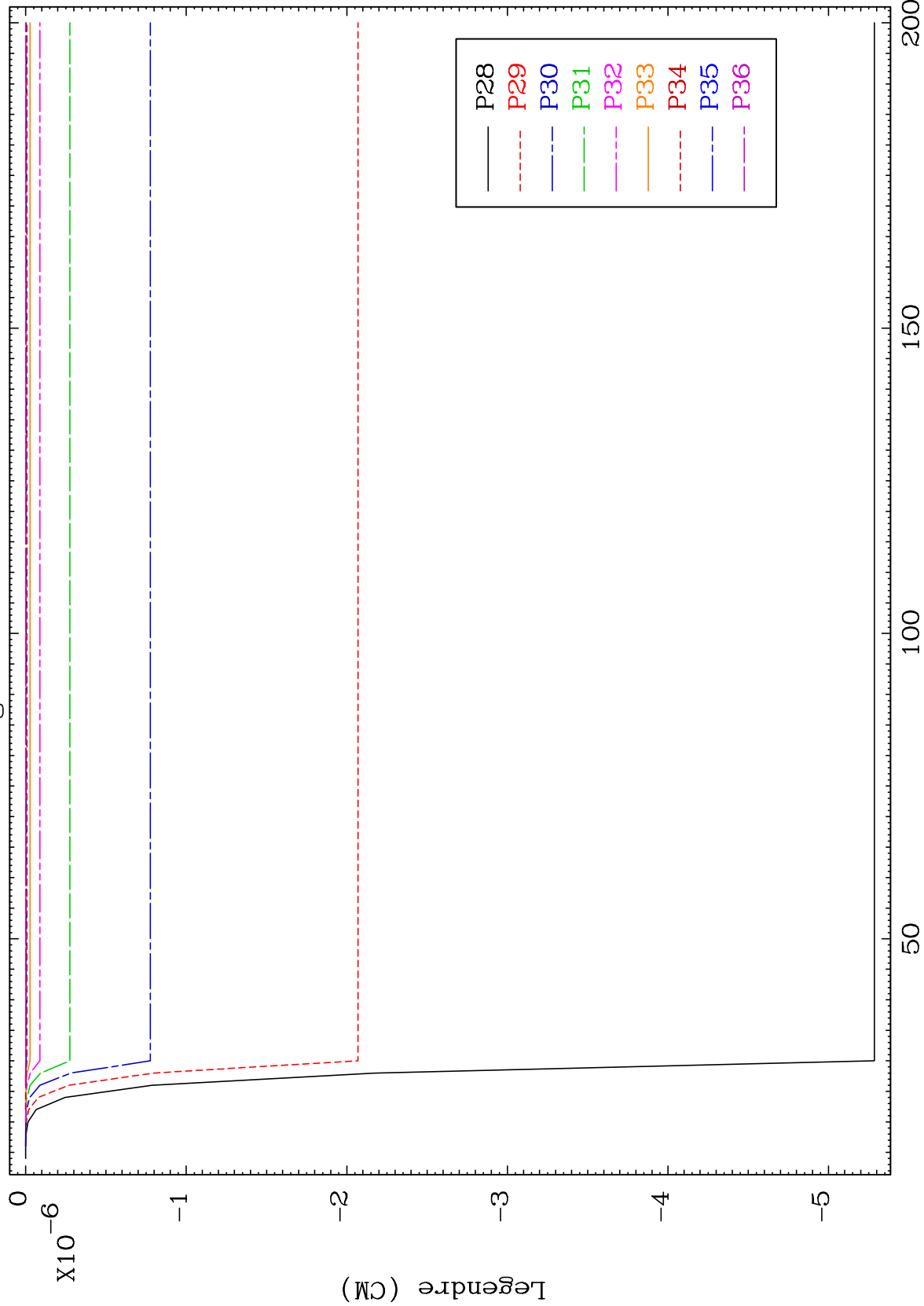
74-W -182



MAT 7431

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

74-W -182



74-W -182

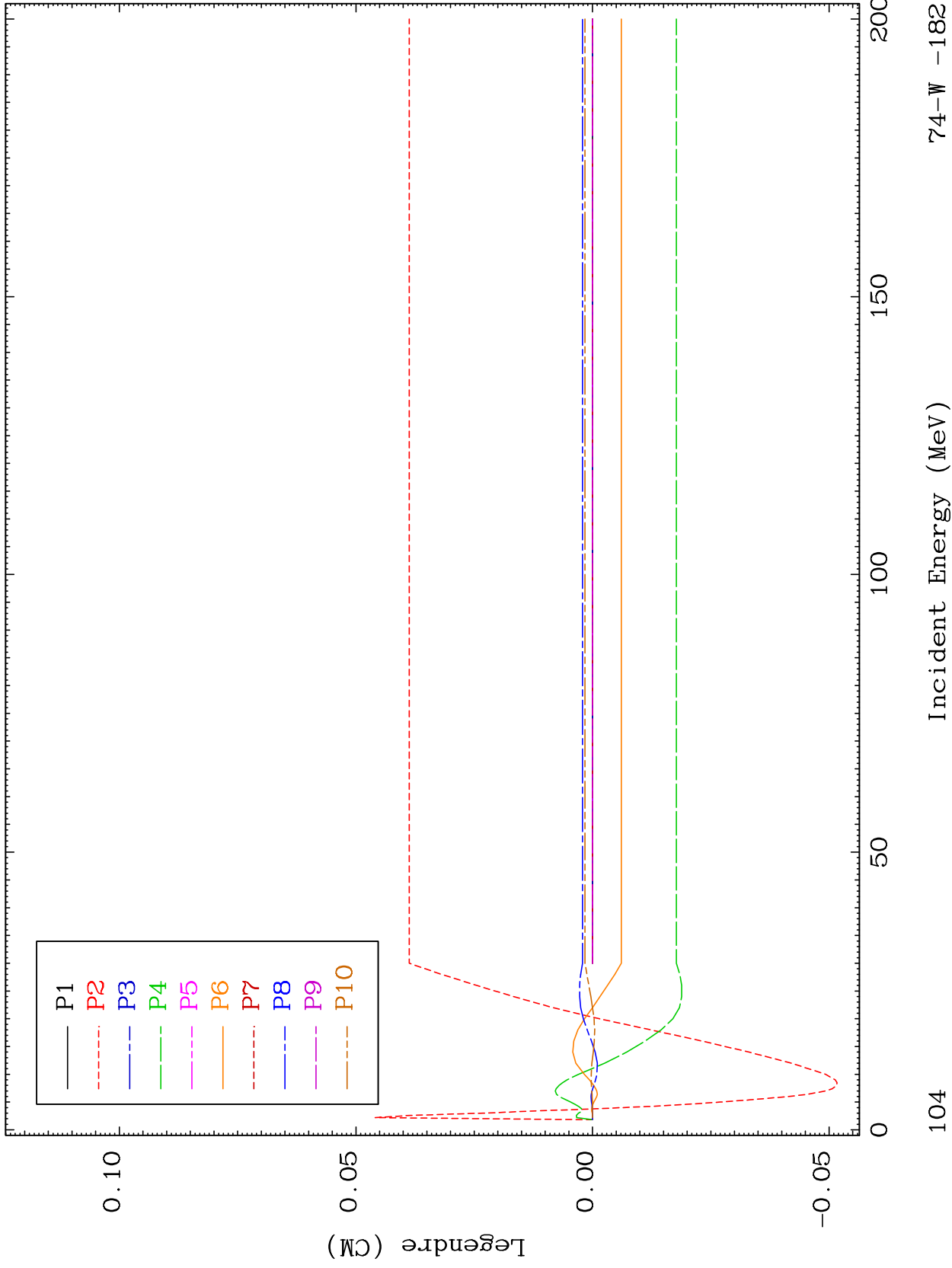
Incident Energy (MeV)

103

MAT 7431

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

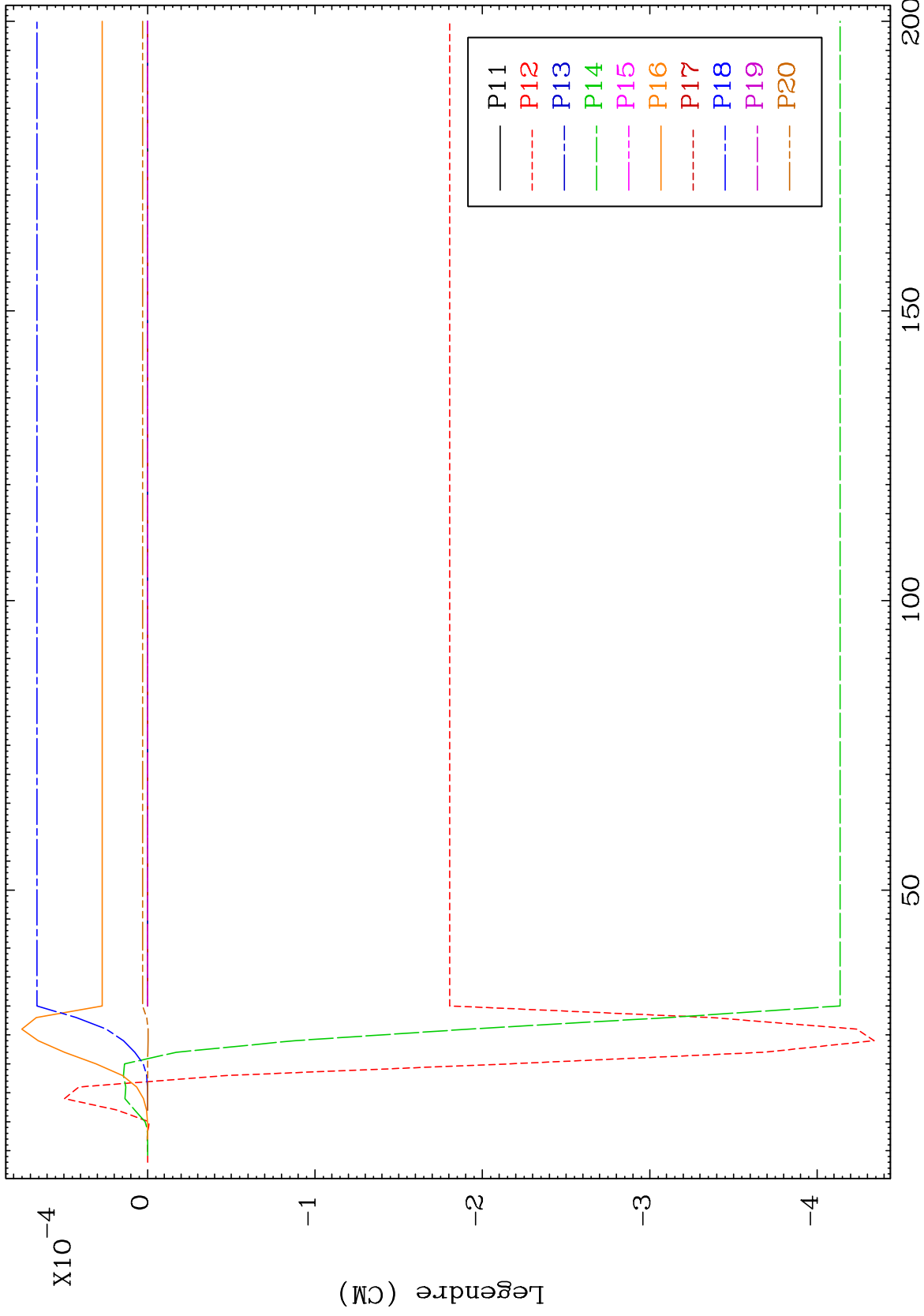
74-W -182



MAT 7431

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

74-W -182



105

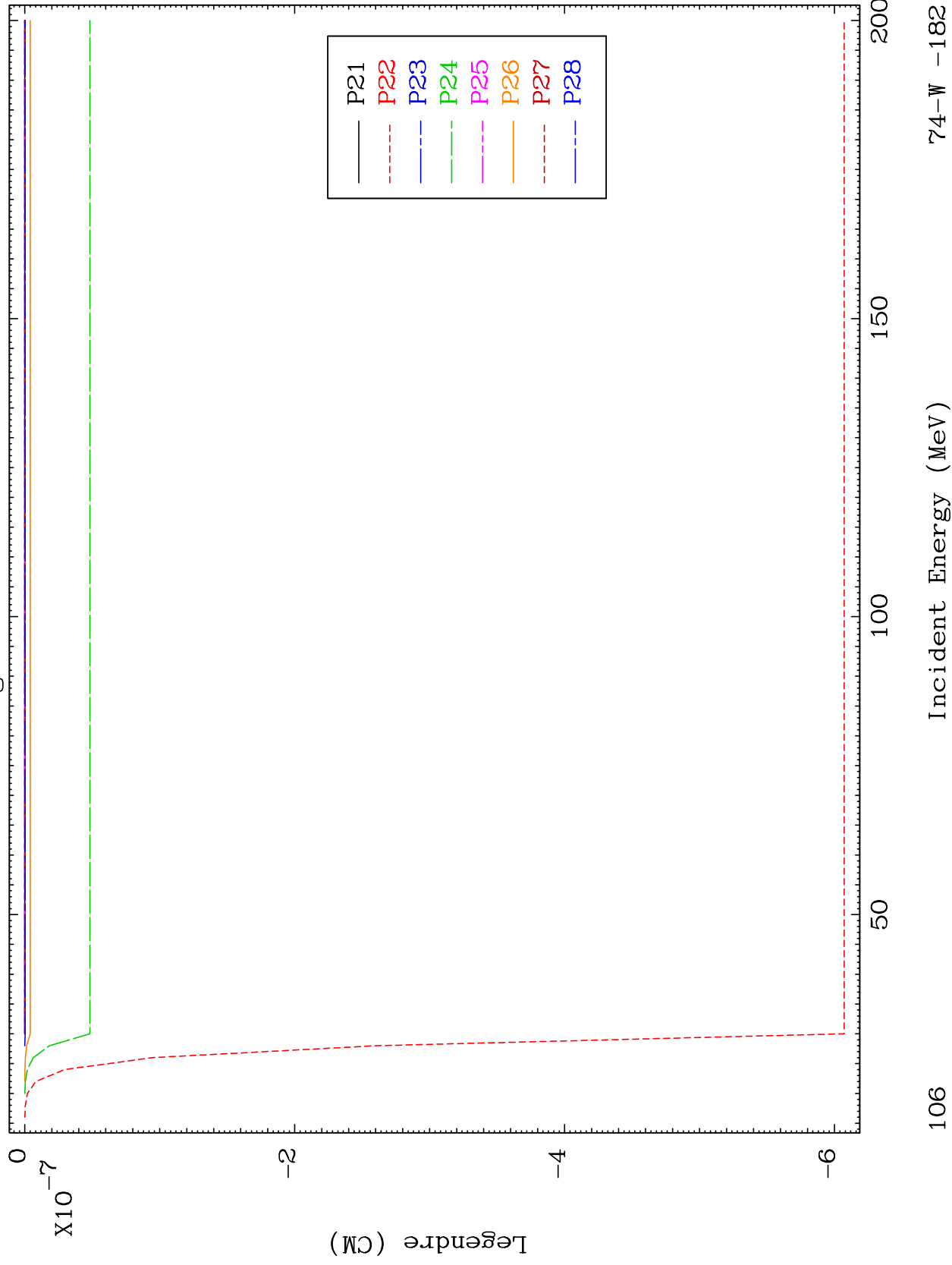
Incident Energy (MeV)

74-W -182

MAT 7431

74-W -182

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



74-W -182

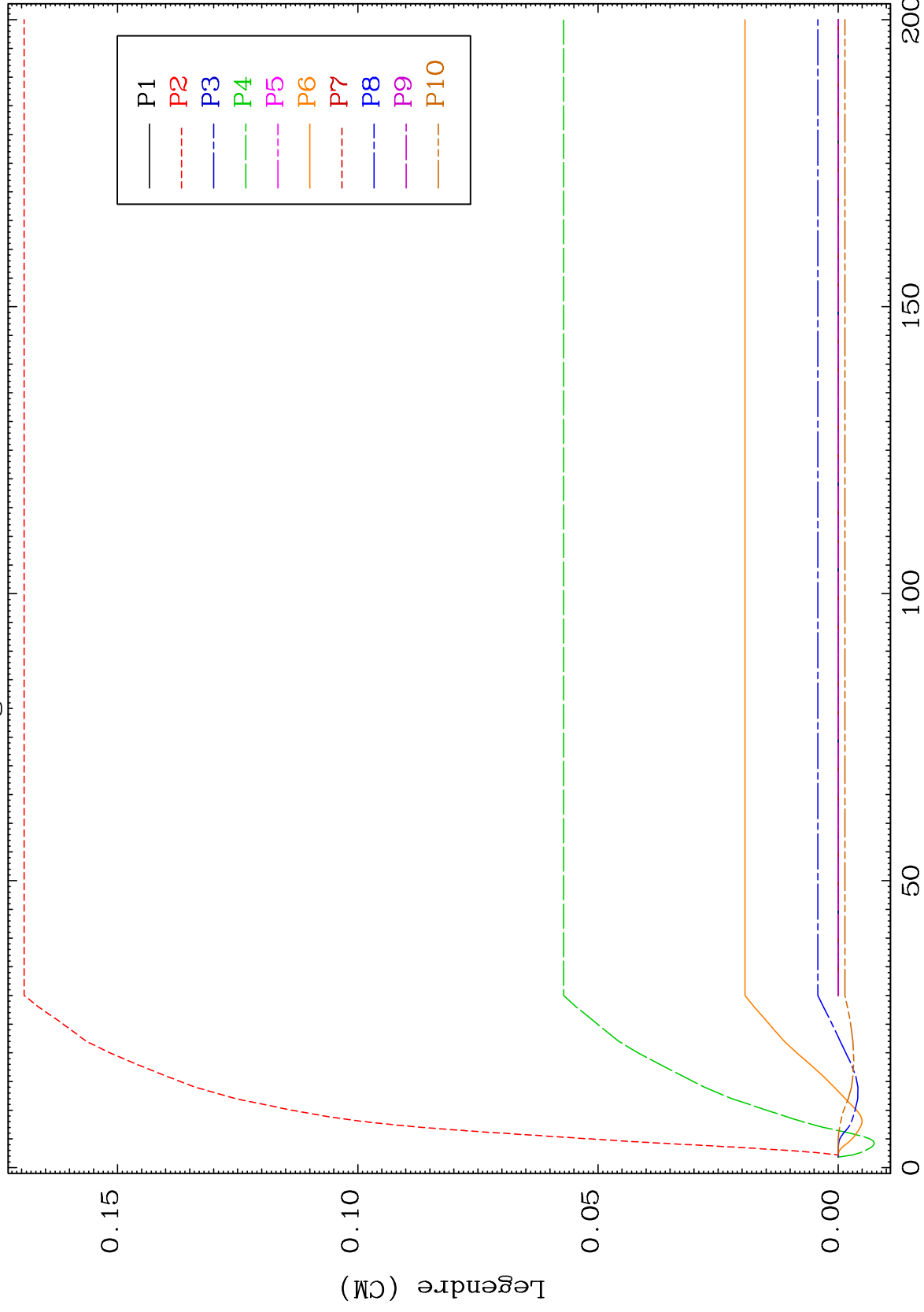
Incident Energy (MeV)

106

MAT 7431

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

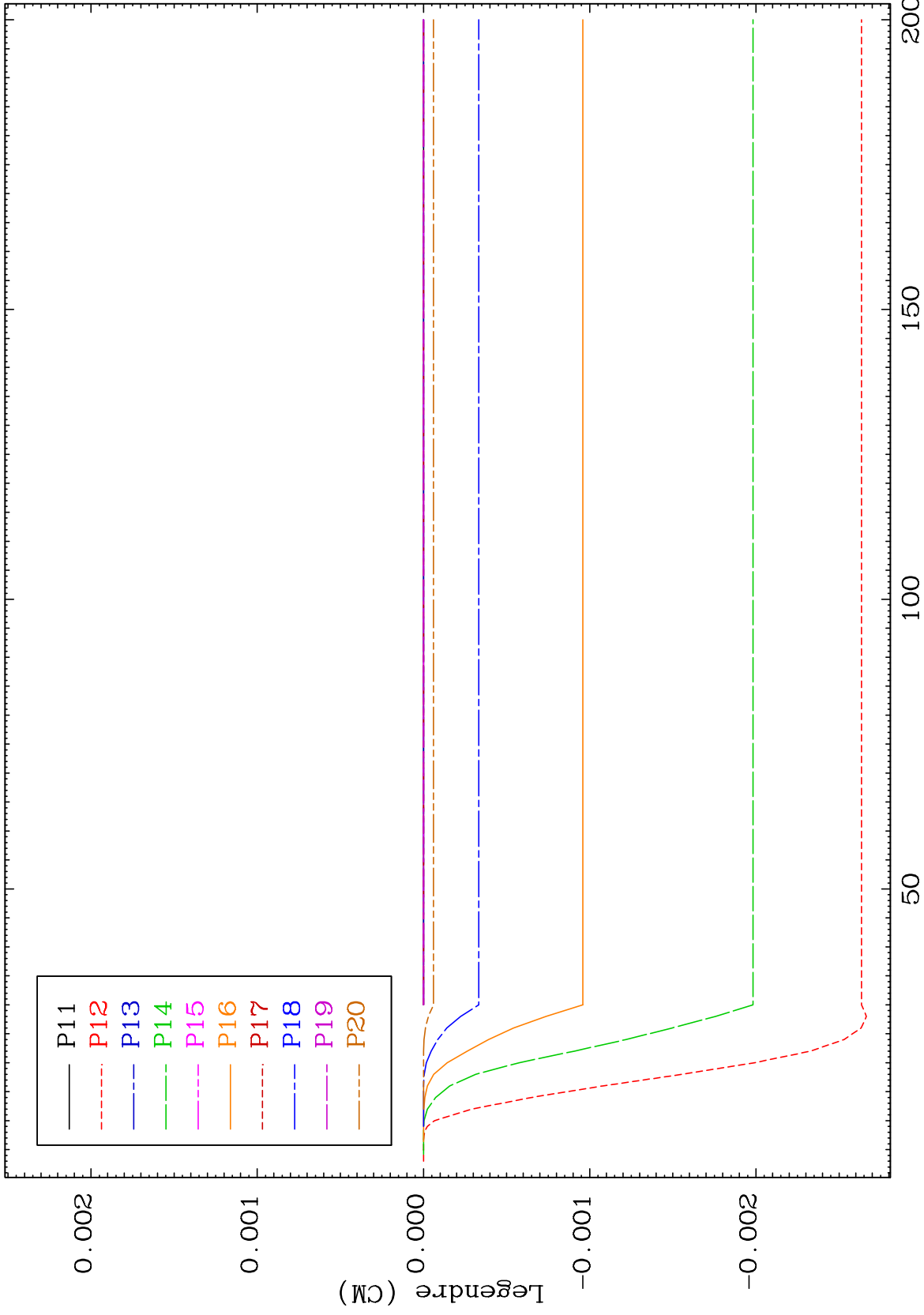
74-W -182

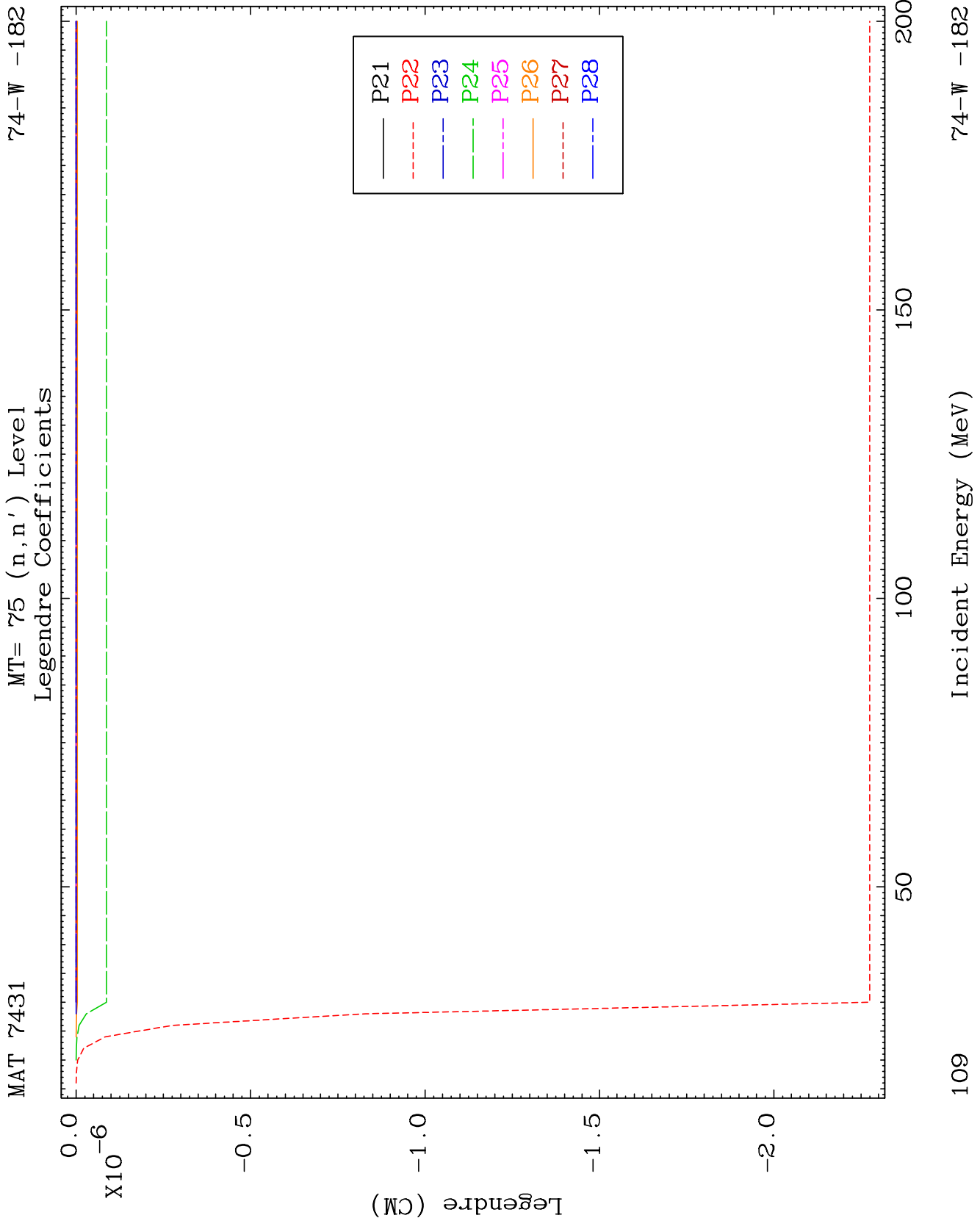


107

Incident Energy (MeV)

74-W -182

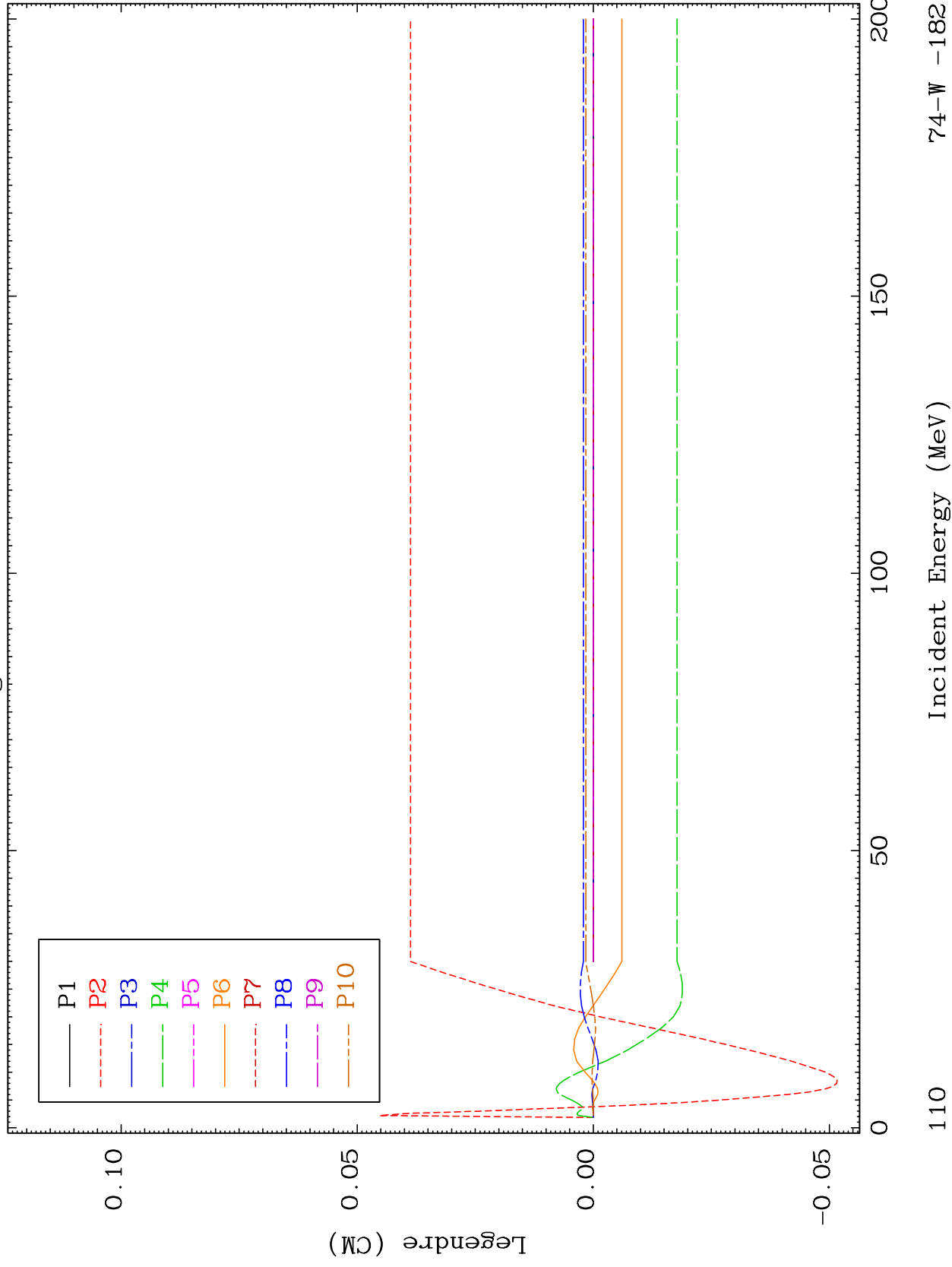


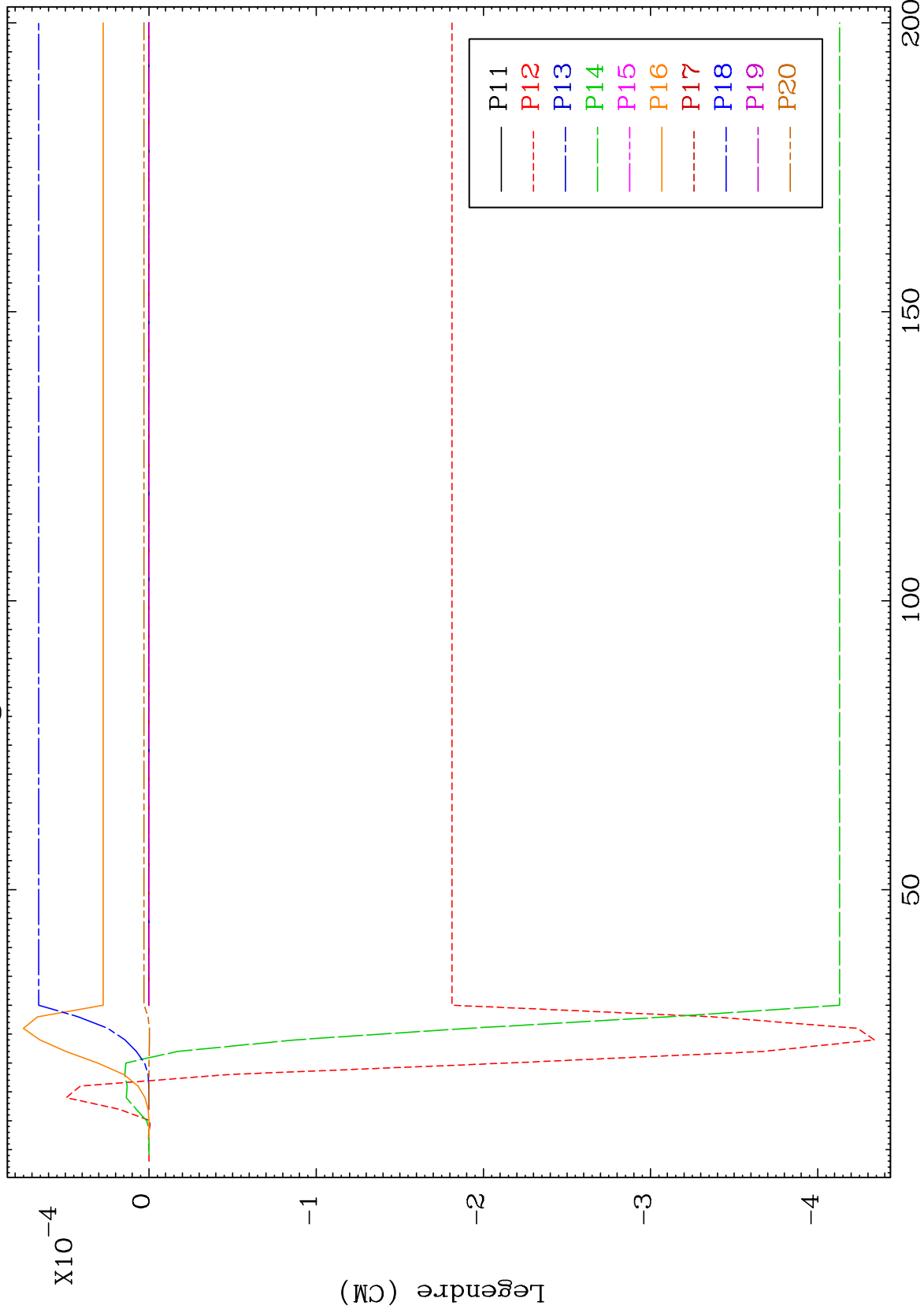


MAT 7431

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

74-W -182

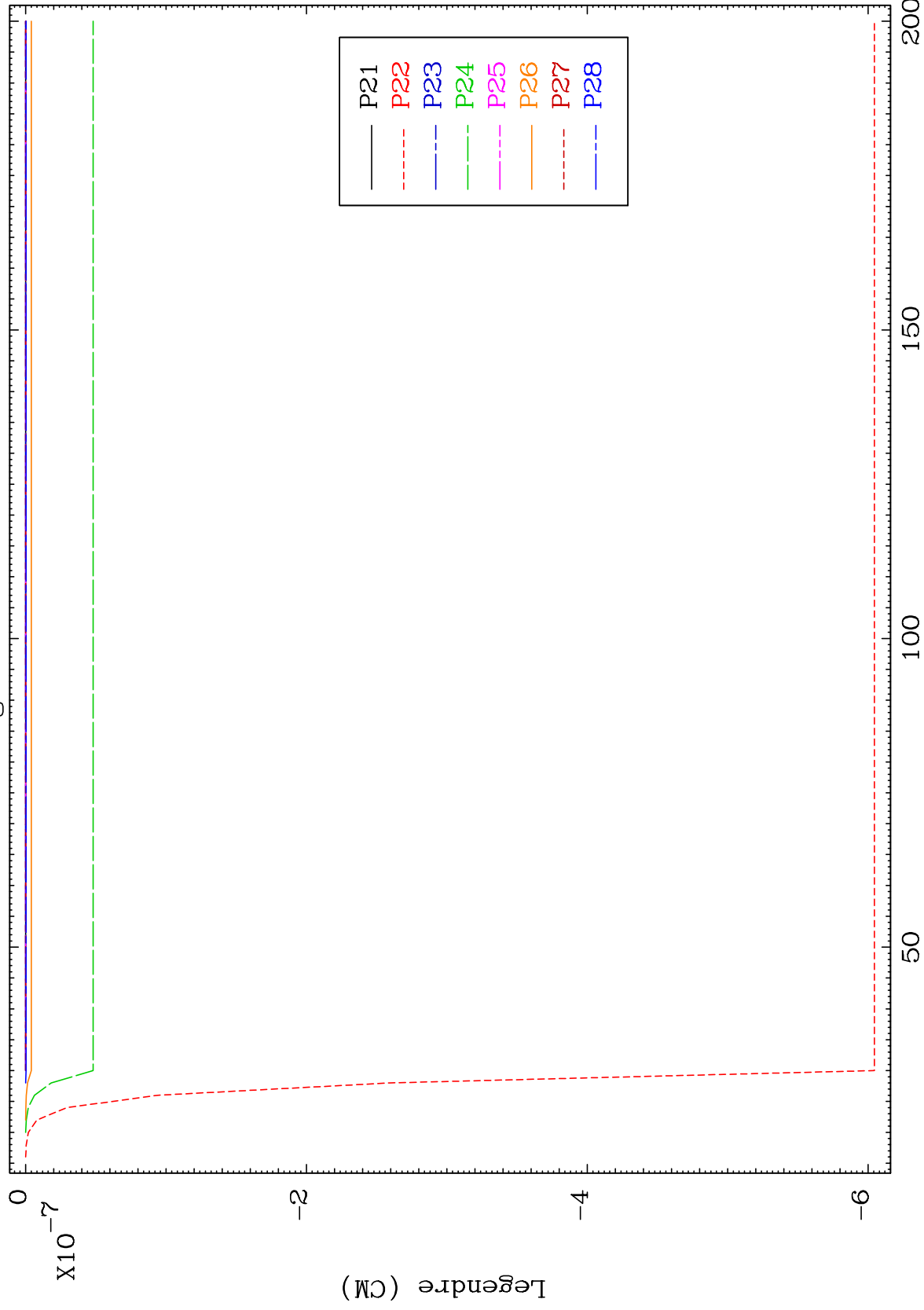




MAT 7431

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

74-W -182



112

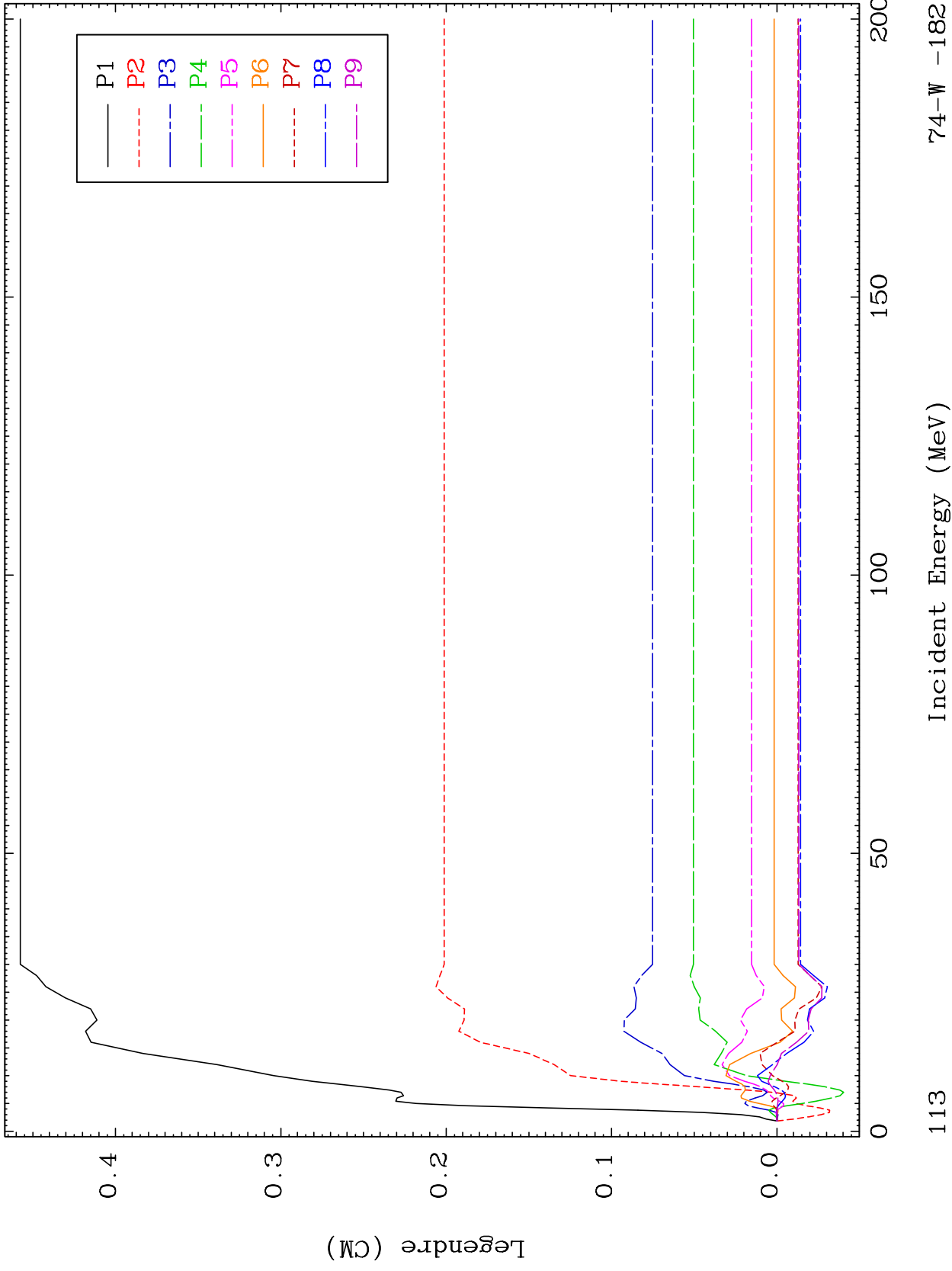
Incident Energy (MeV)

74-W -182

MAT 7431

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

74-W -182



113

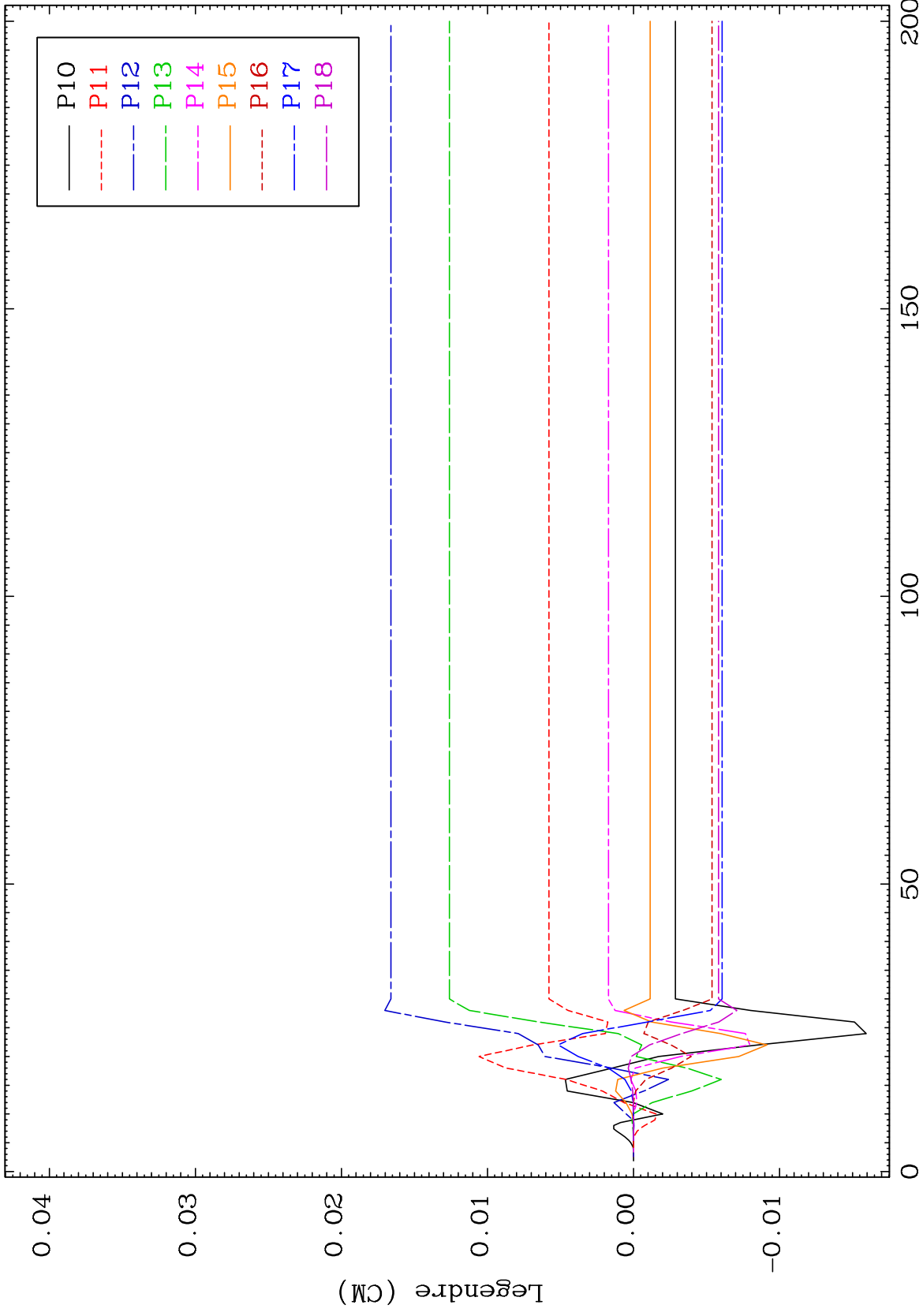
Incident Energy (MeV)

74-W -182

MAT 7431

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

74-W -182



114

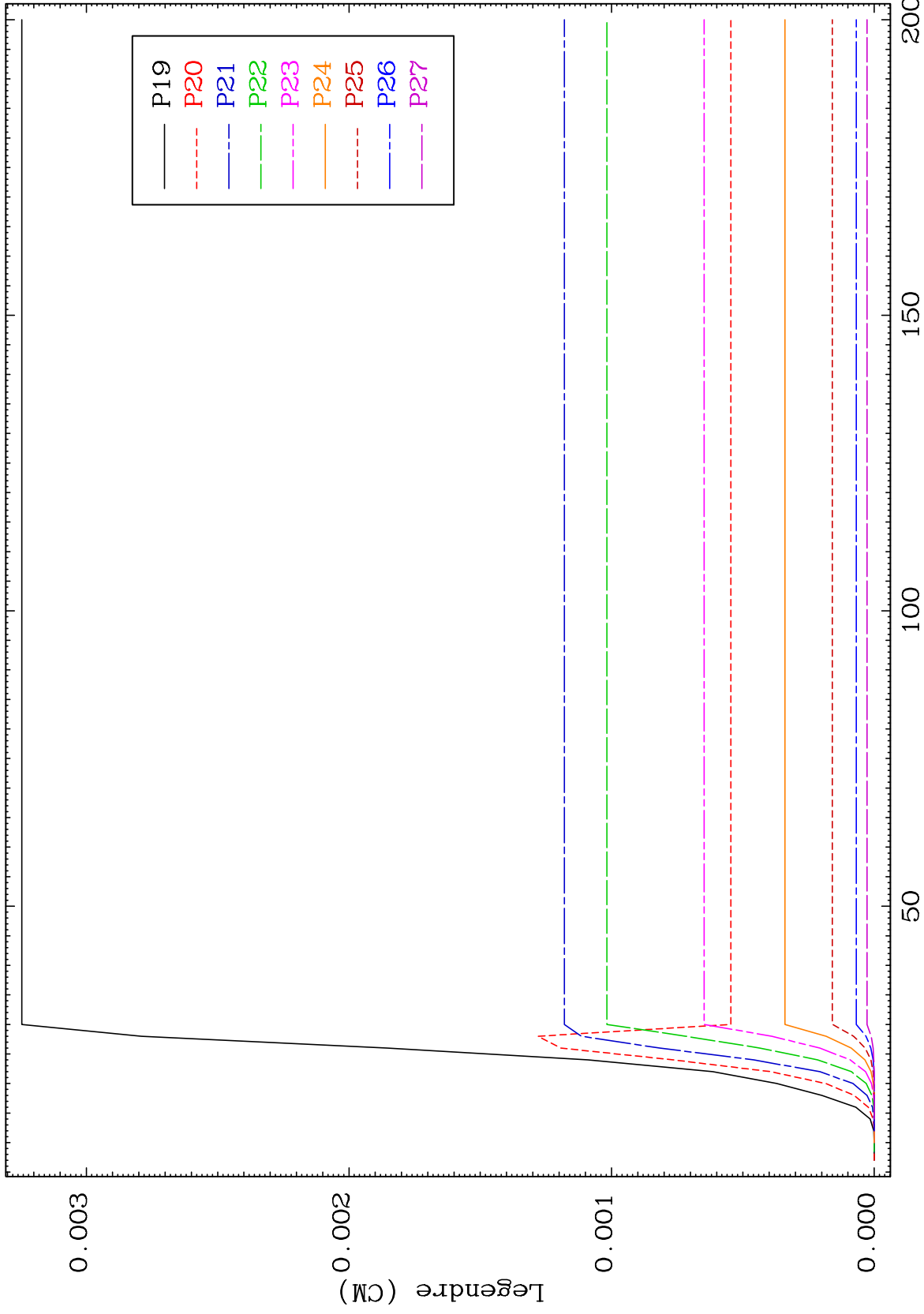
Incident Energy (MeV)

74-W -182

MAT 7431

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

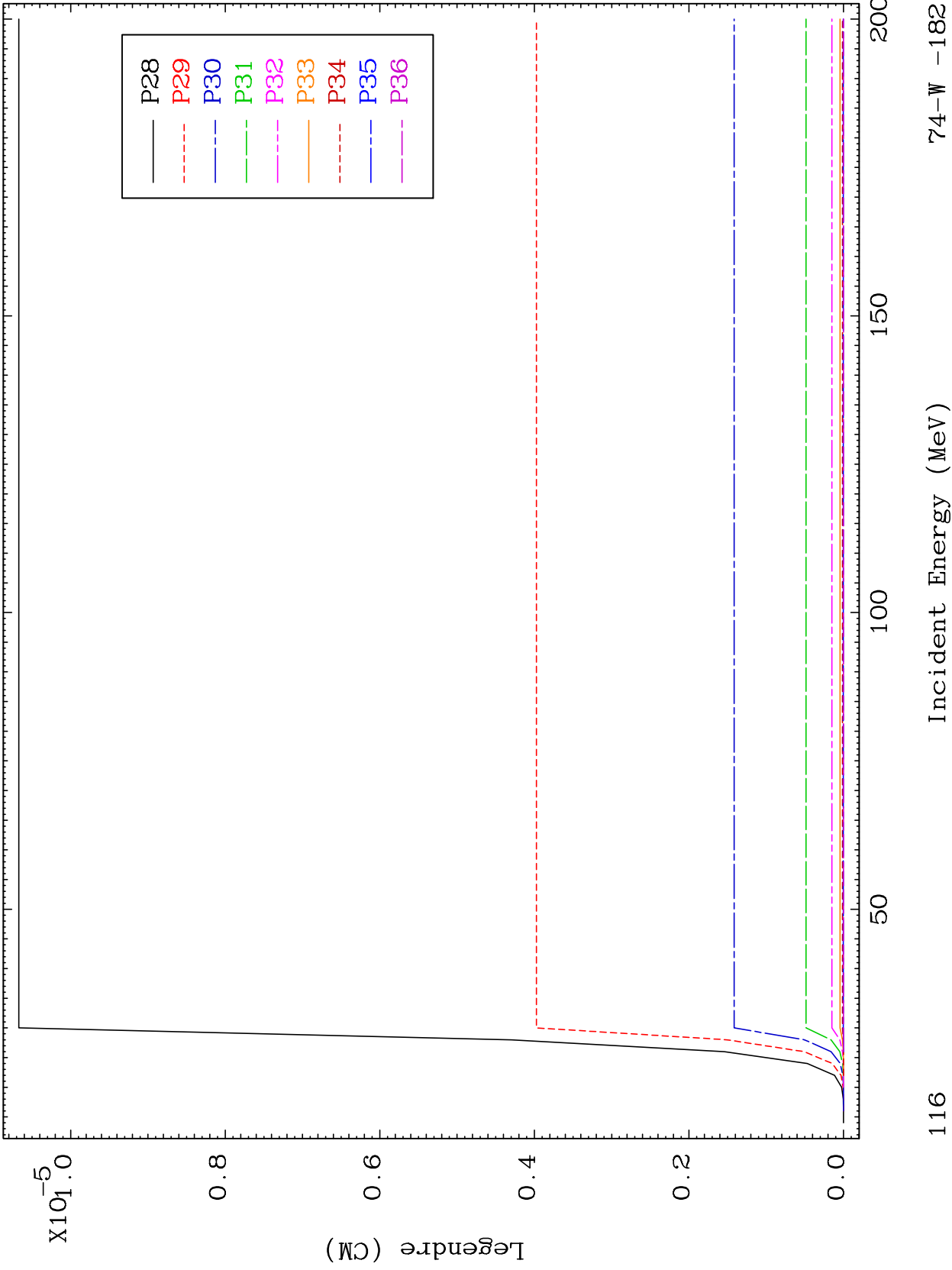
74-W -182



115

Incident Energy (MeV)

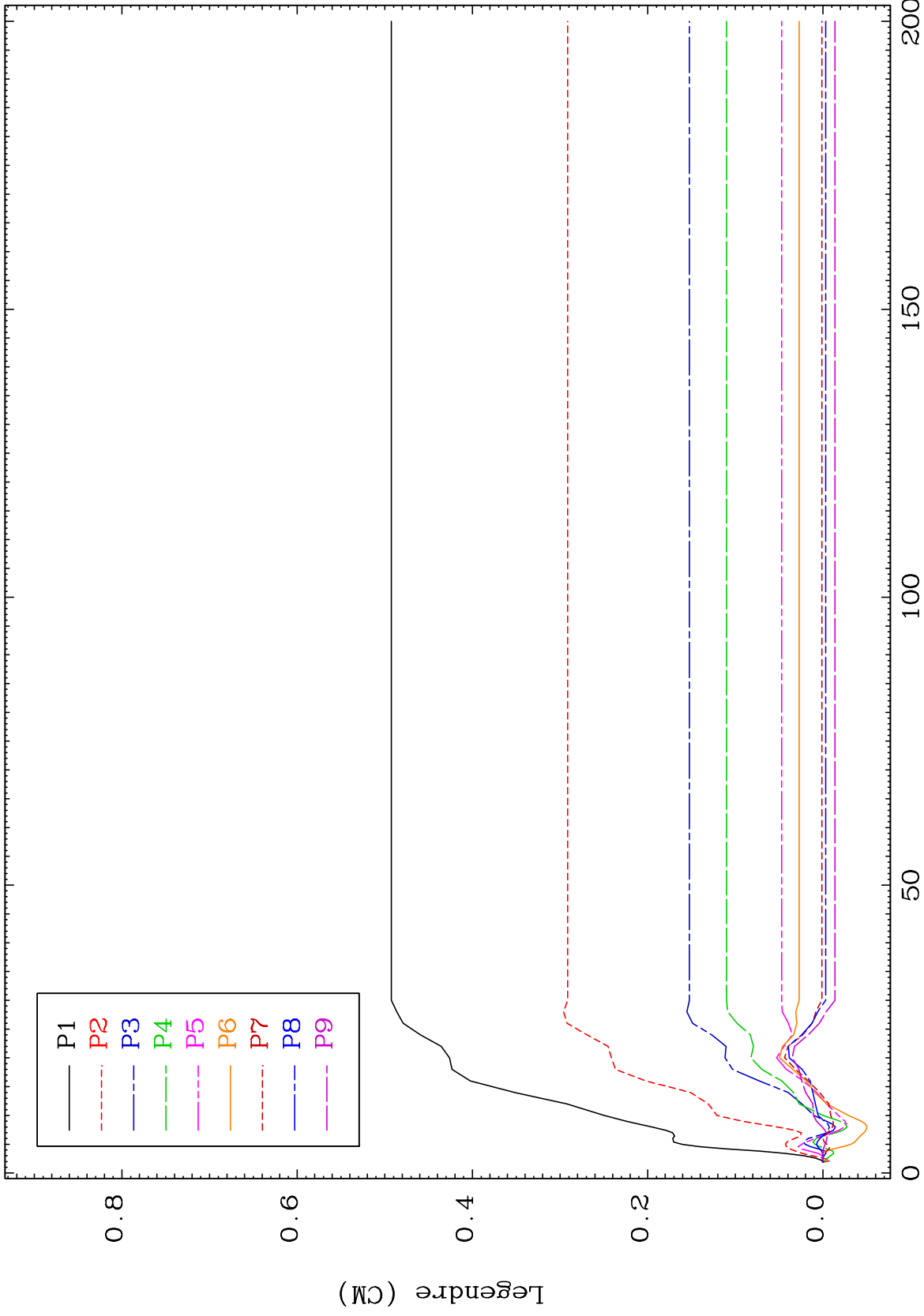
74-W -182



MAT 7431

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

74-W -182



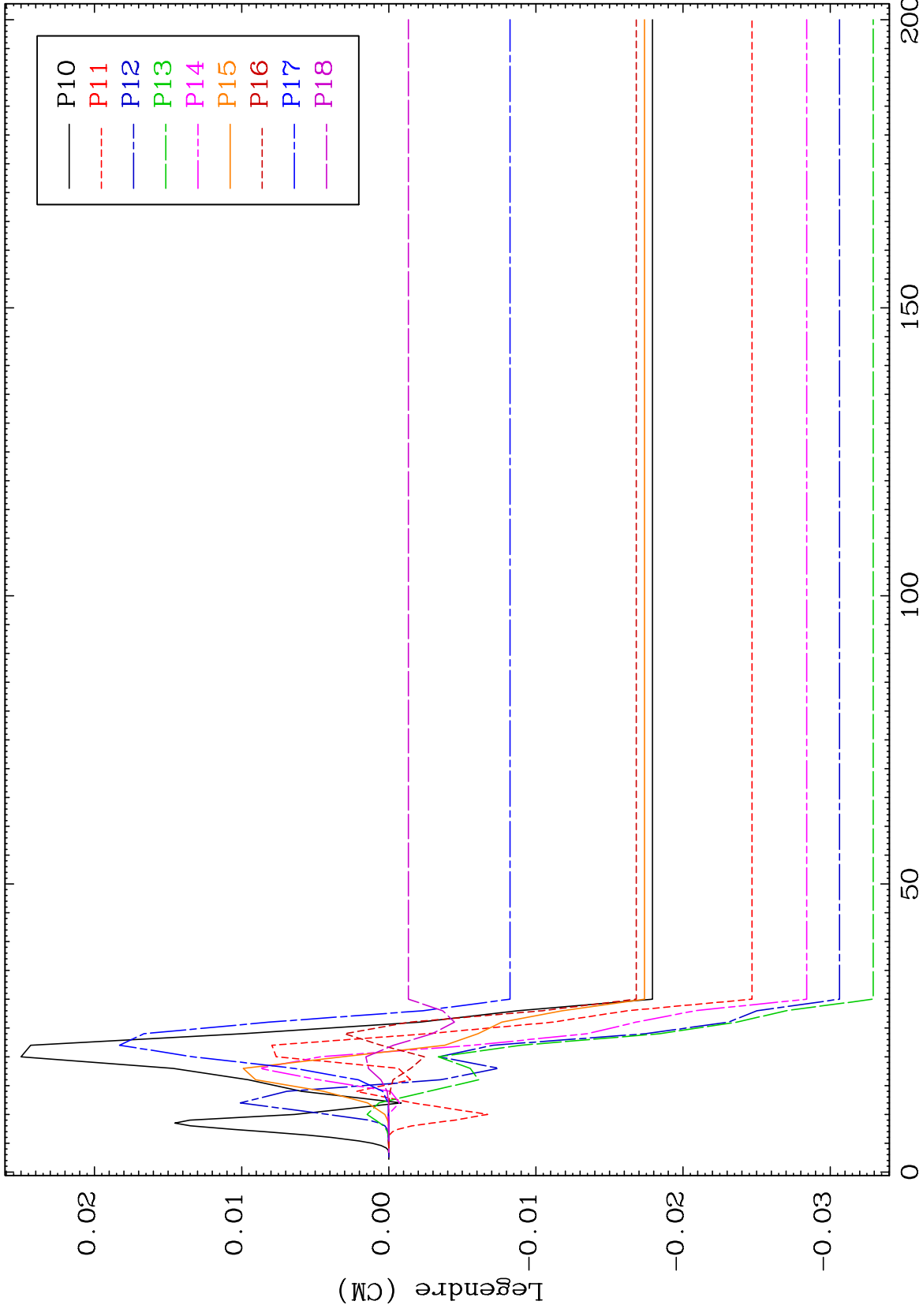
117

74-W -182

MAT 7431

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

74-W -182



118

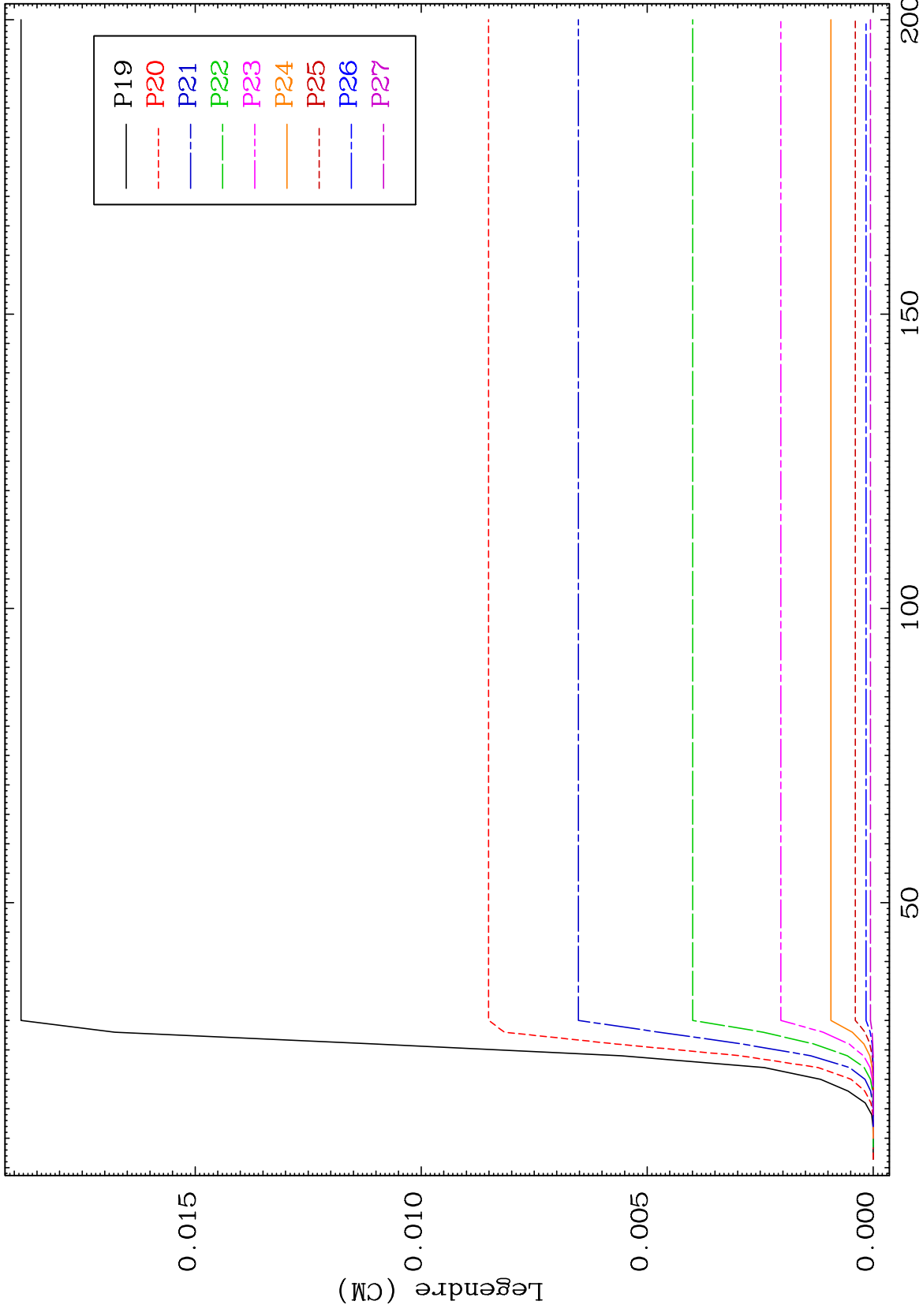
Incident Energy (MeV)

74-W -182

MAT 7431

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

74-W -182



119

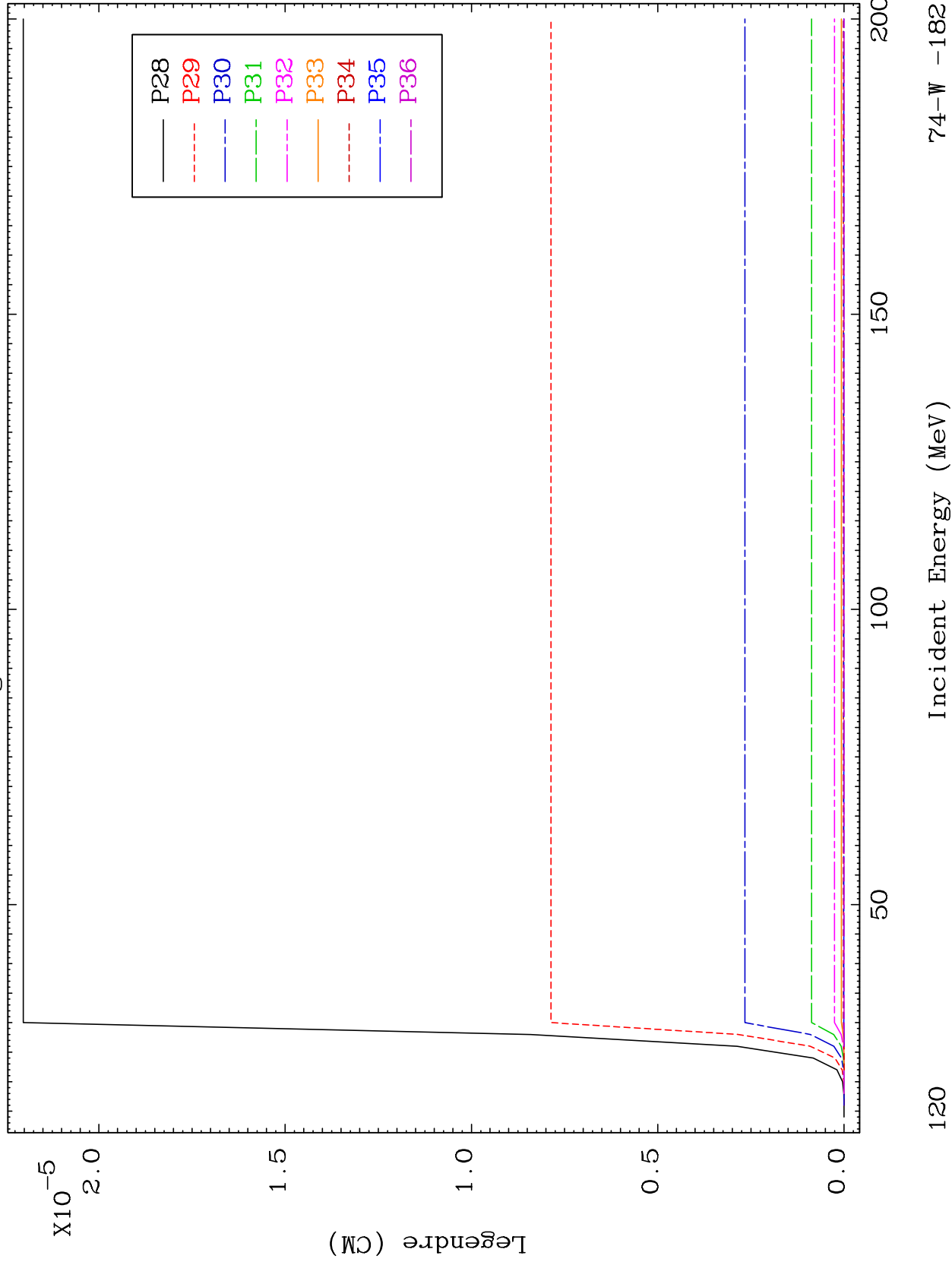
Incident Energy (MeV)

74-W -182

MAT 7431

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

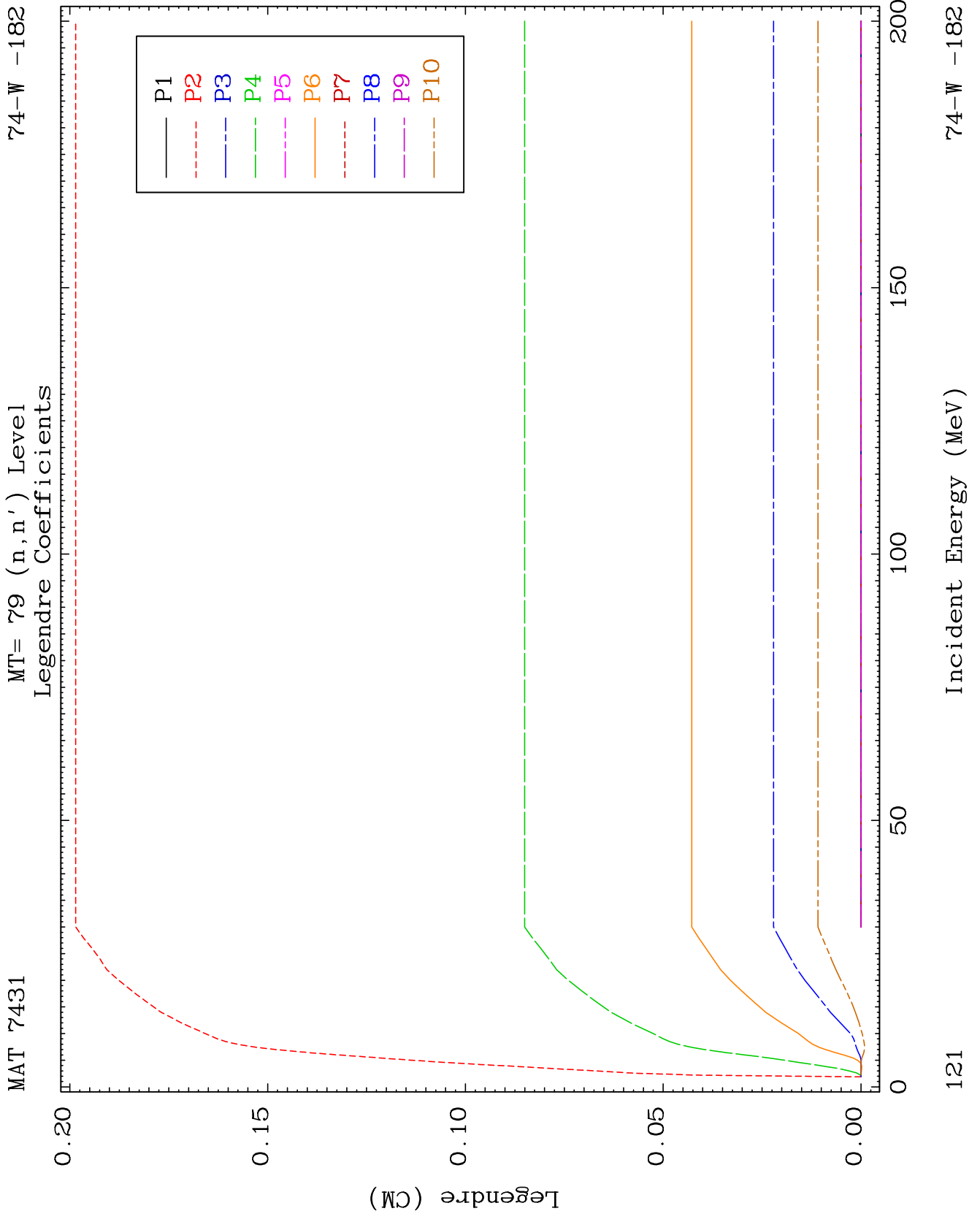
74-W -182



74-W -182

Incident Energy (MeV)

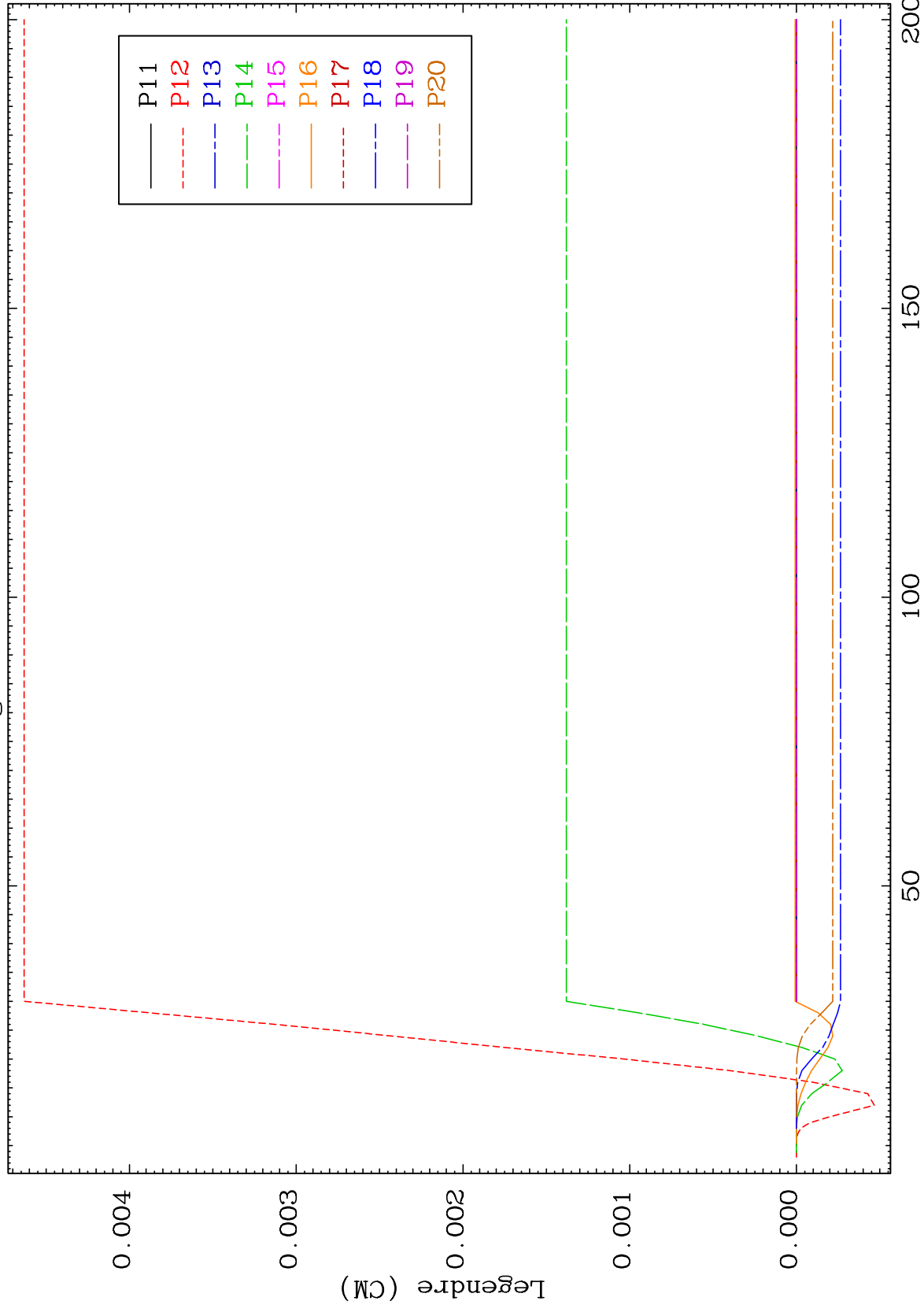
120



MAT 7431

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

74-W -182



122

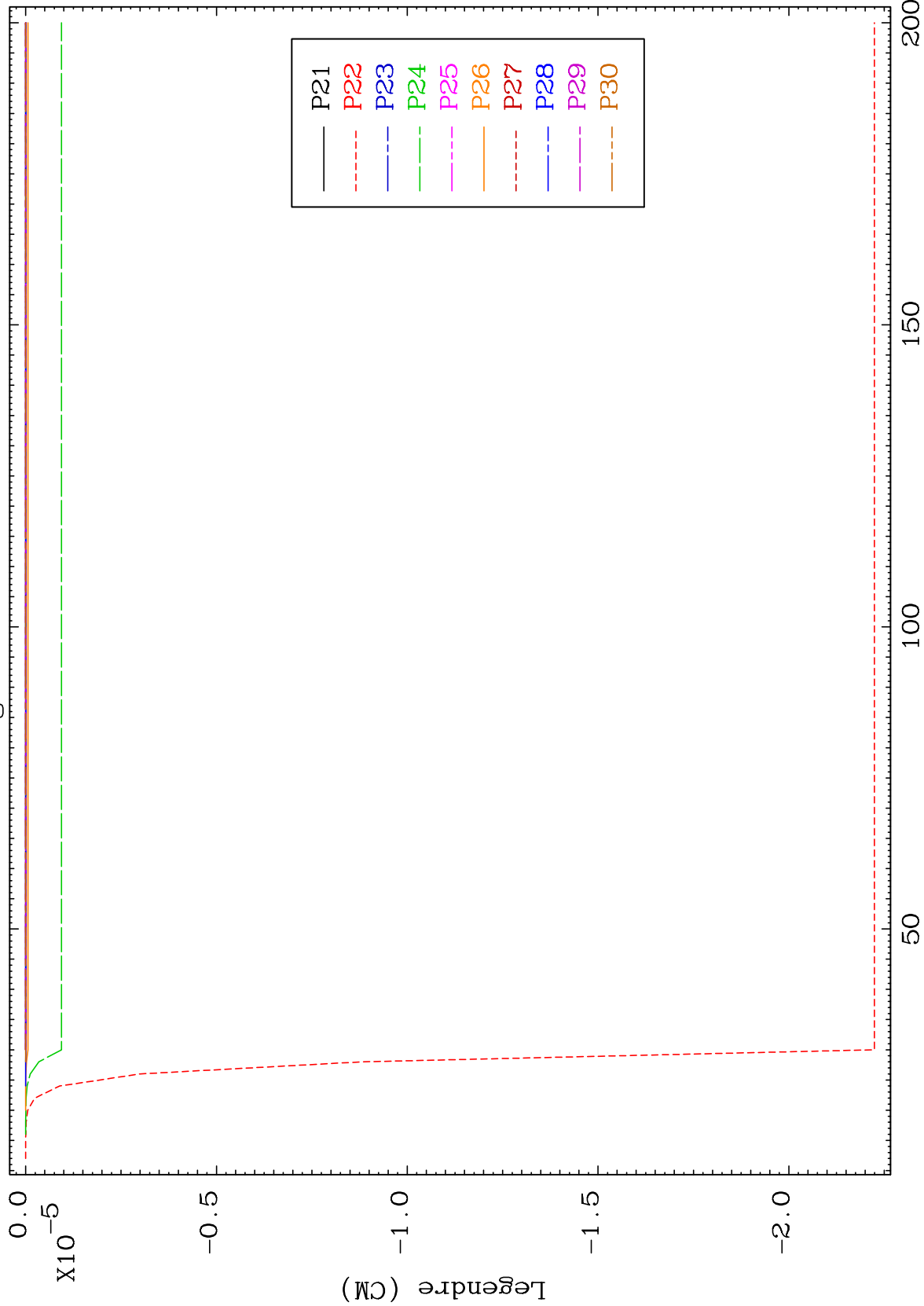
Incident Energy (MeV)

74-W -182

MAT 7431

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

74-W -182



74-W -182

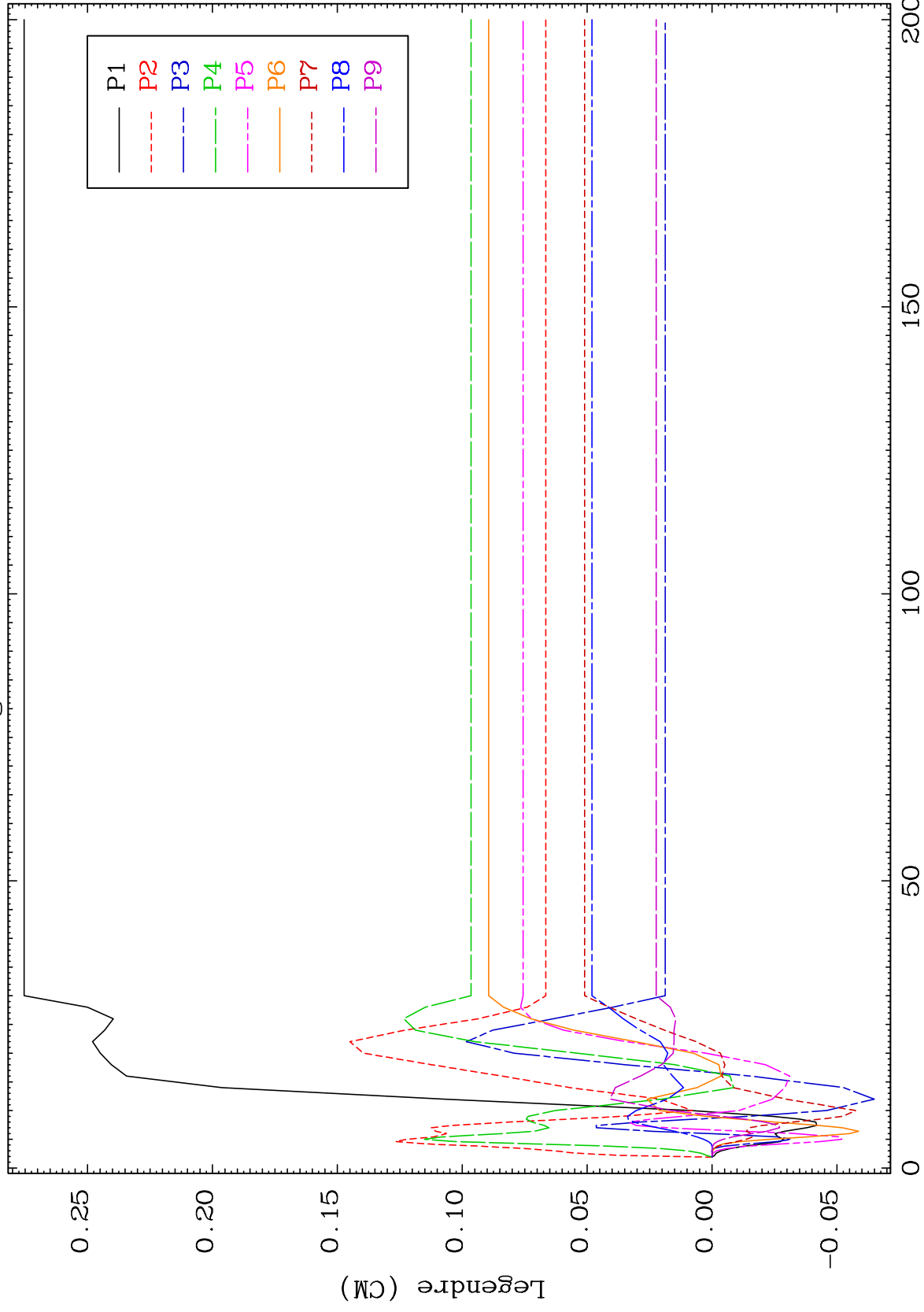
Incident Energy (MeV)

123

MAT 7431

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

74-W -182



124

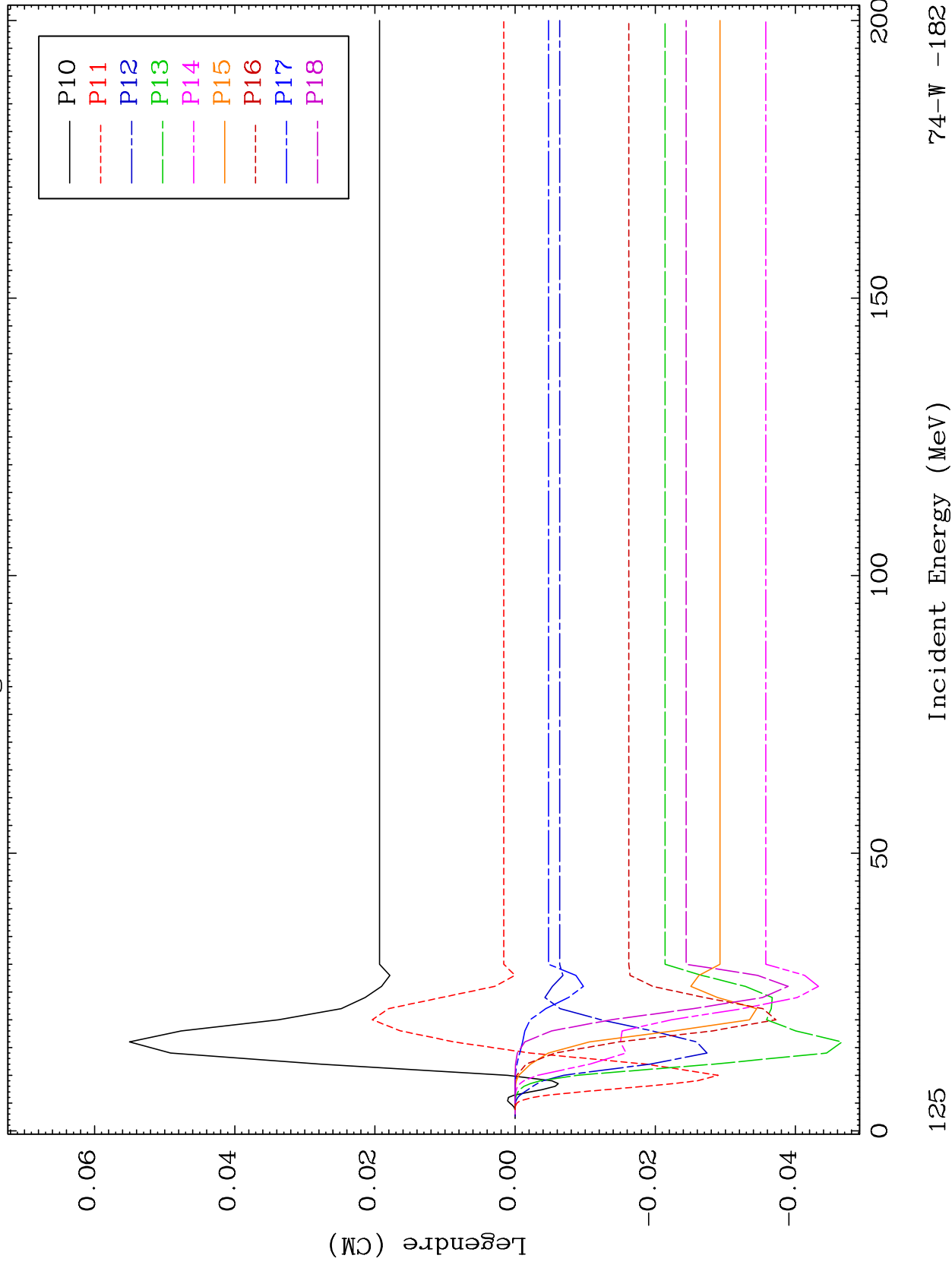
Incident Energy (MeV)

74-W -182

MAT 7431

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

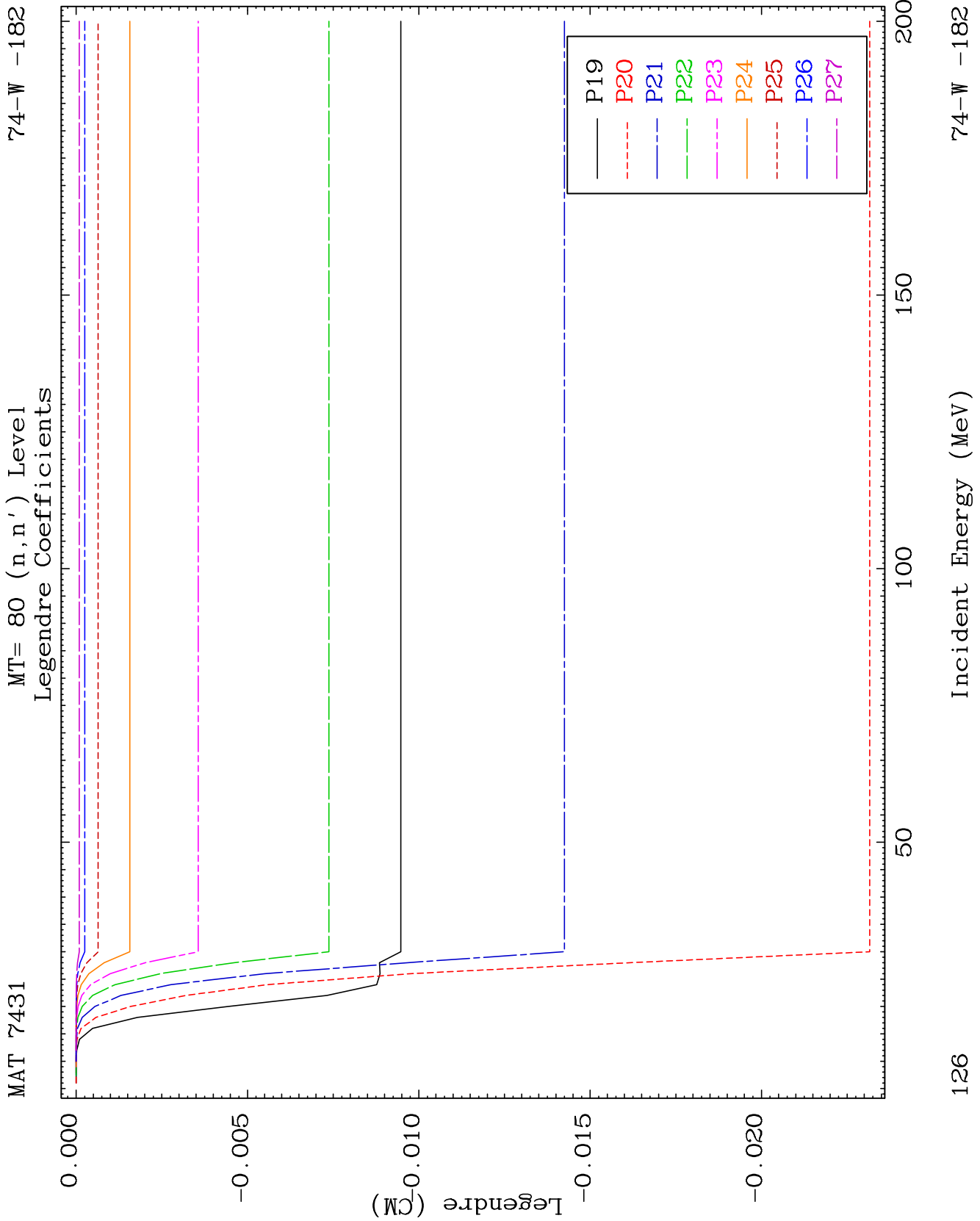
74-W -182

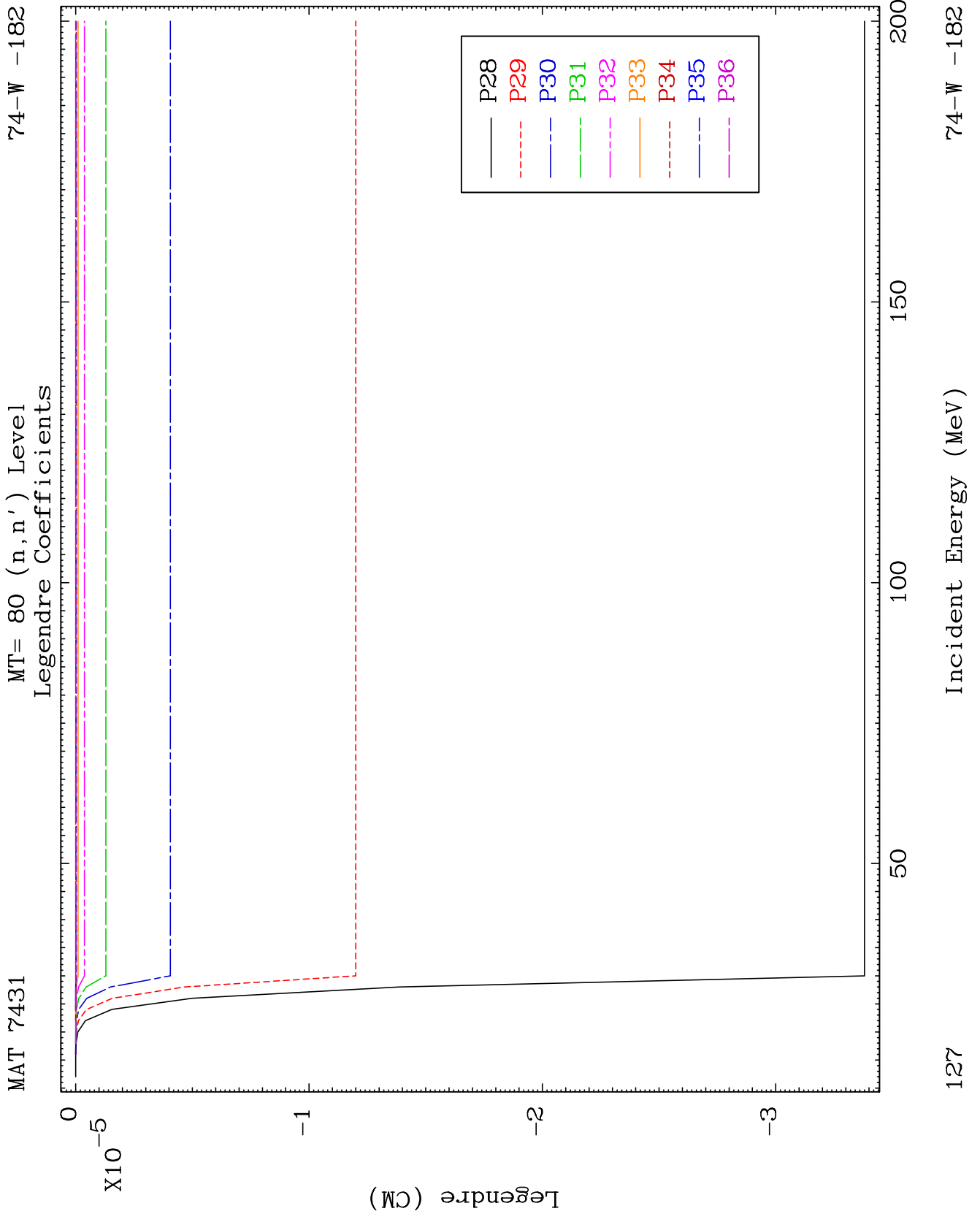


74-W -182

Incident Energy (MeV)

125



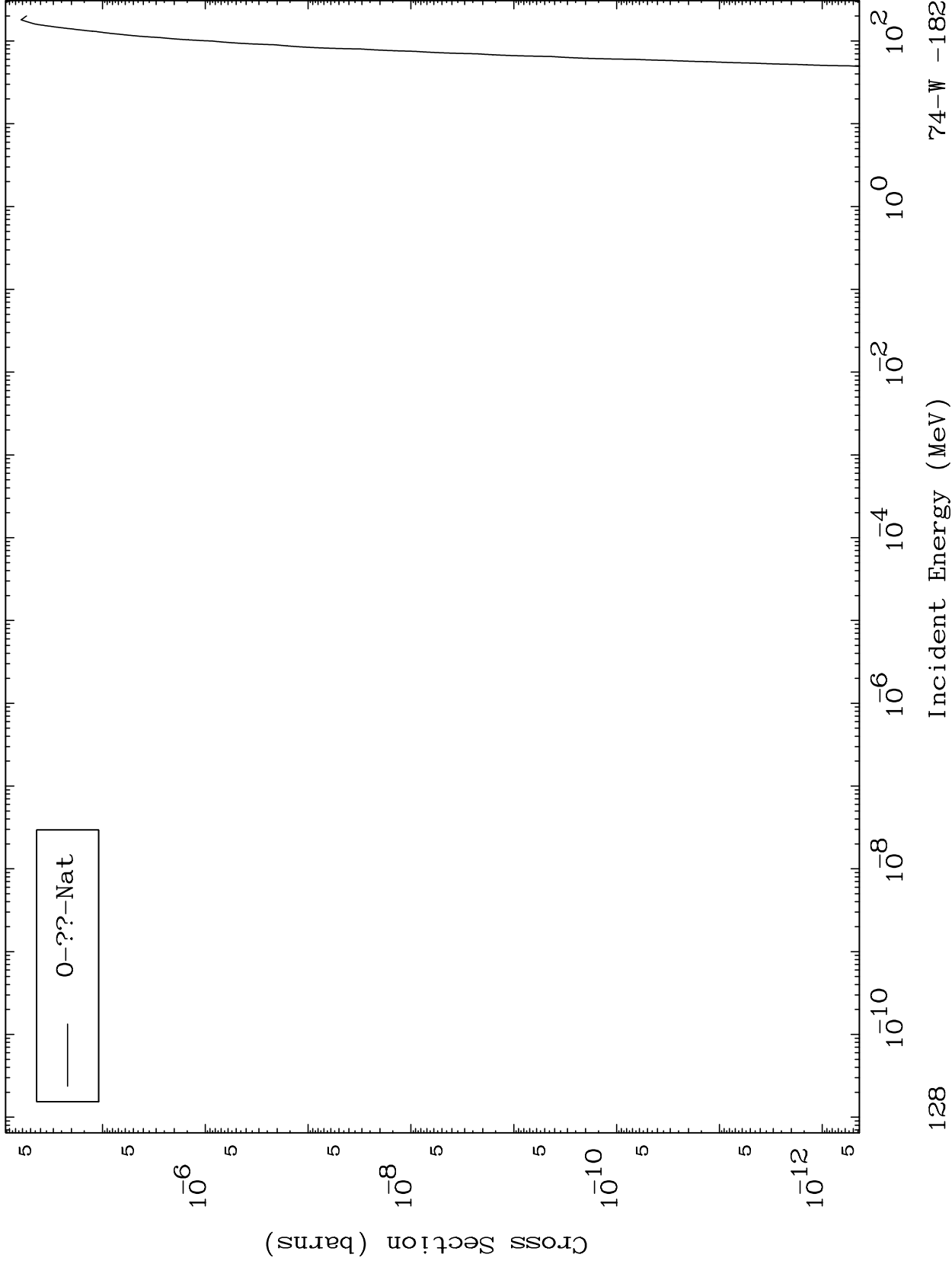


MAT 7431

Fission

74-W -182

Radionuclide Production Cross Section

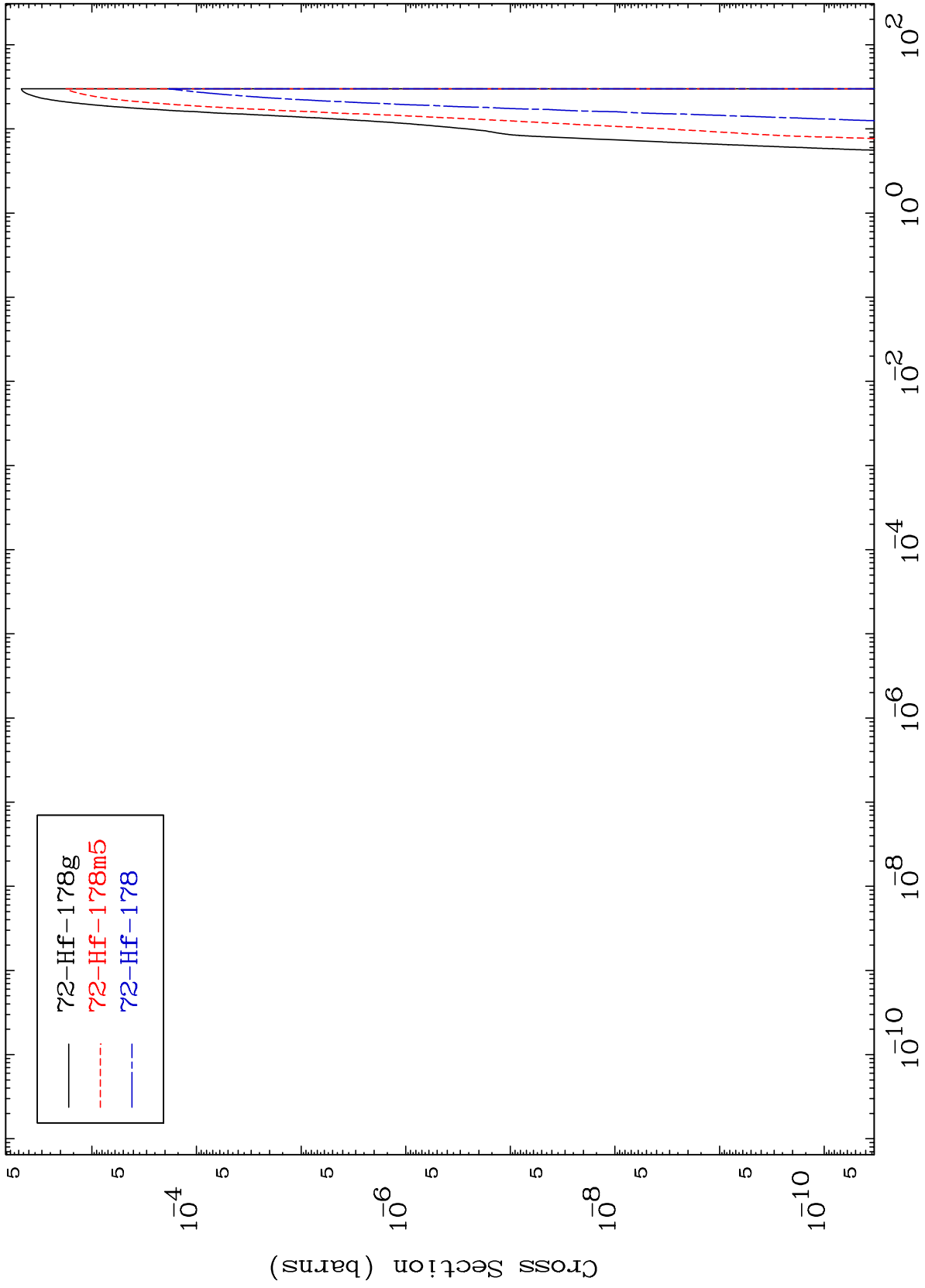


MAT 7431

$(n, n') \alpha$

74-W -182

Radionuclide Production Cross Section



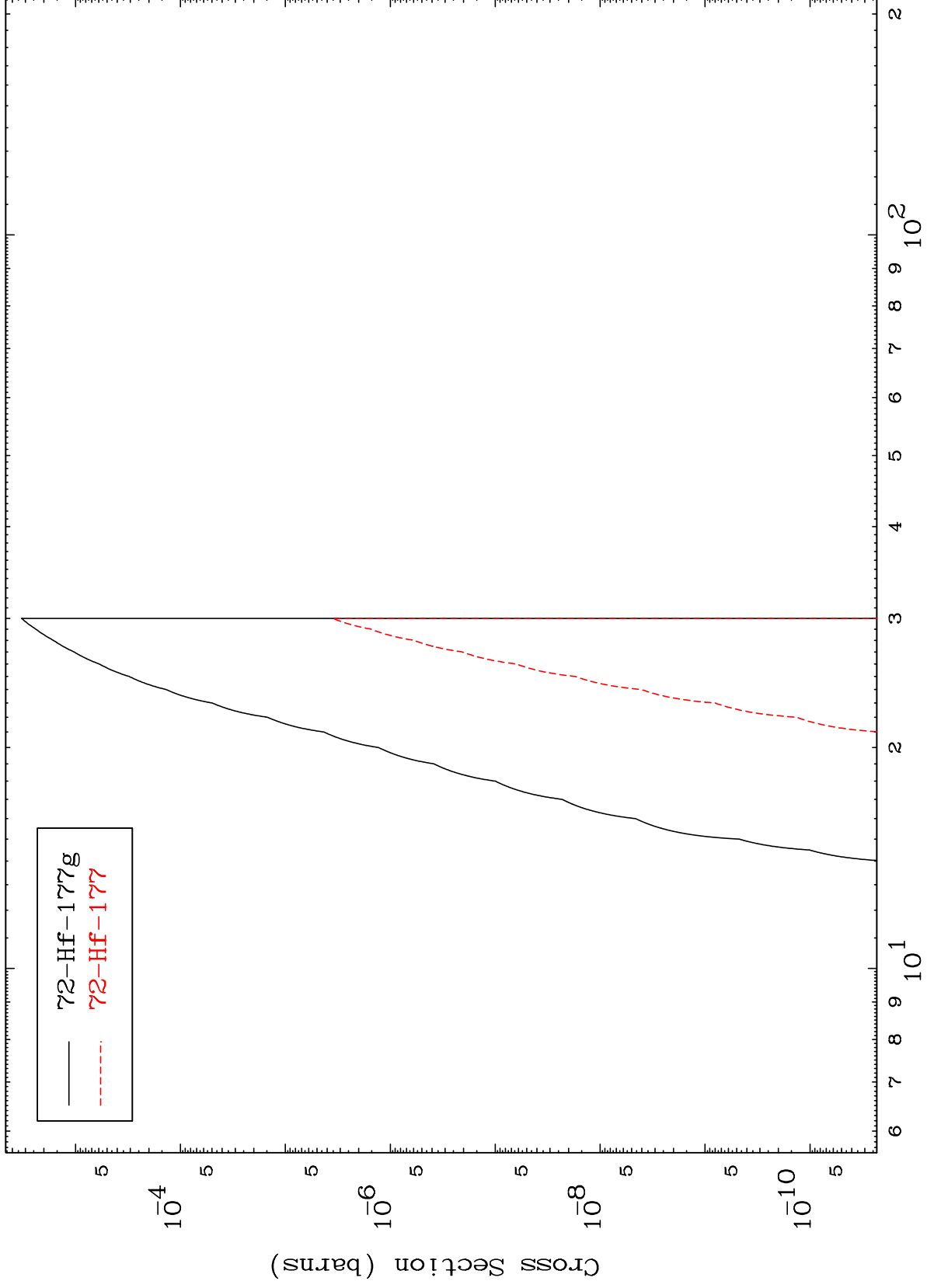
72-Hf-178g  
72-Hf-178m5  
72-Hf-178

MAT 7431

(n,2n)  $\alpha$

74-W -182

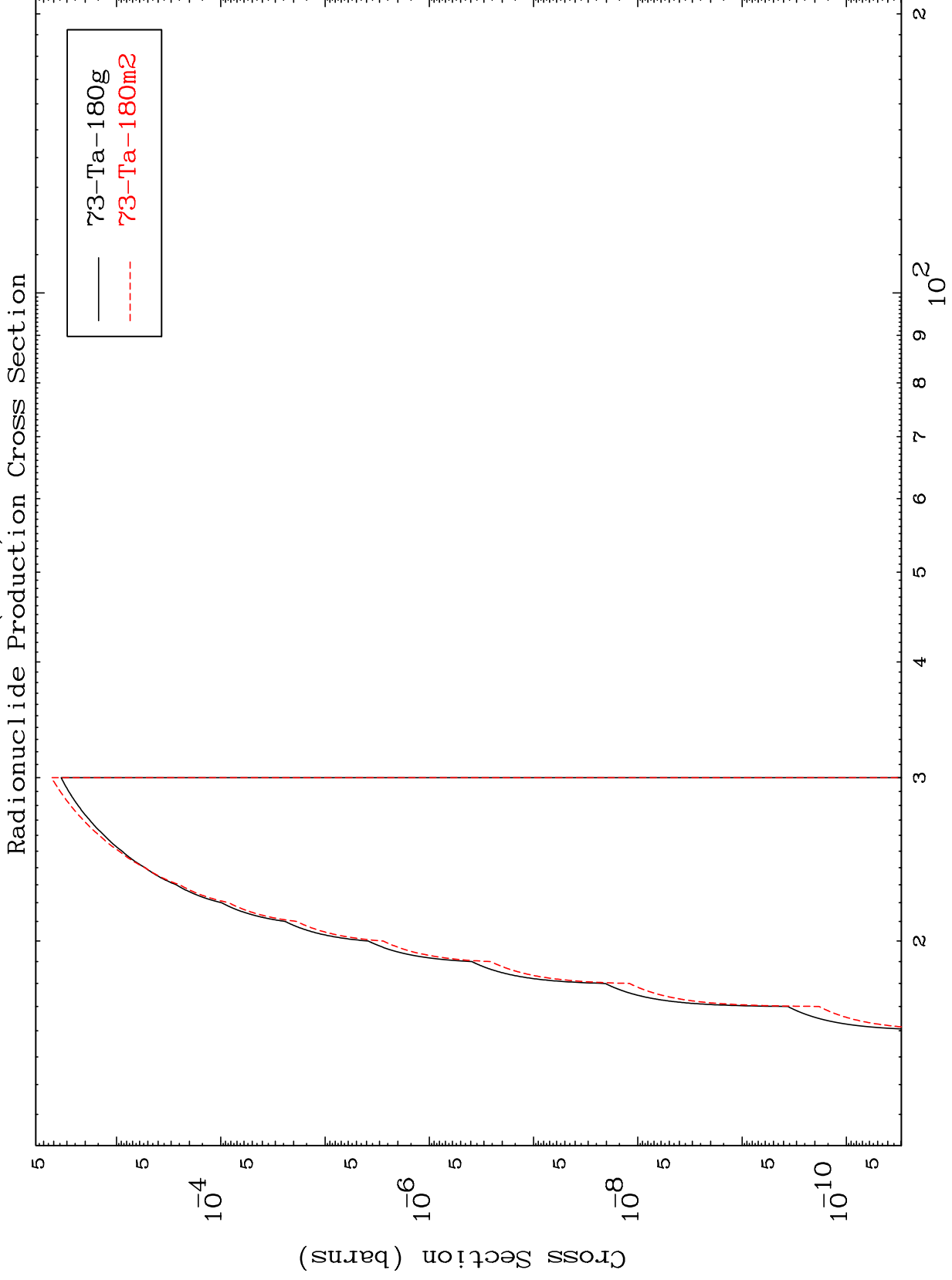
Radionuclide Production Cross Section



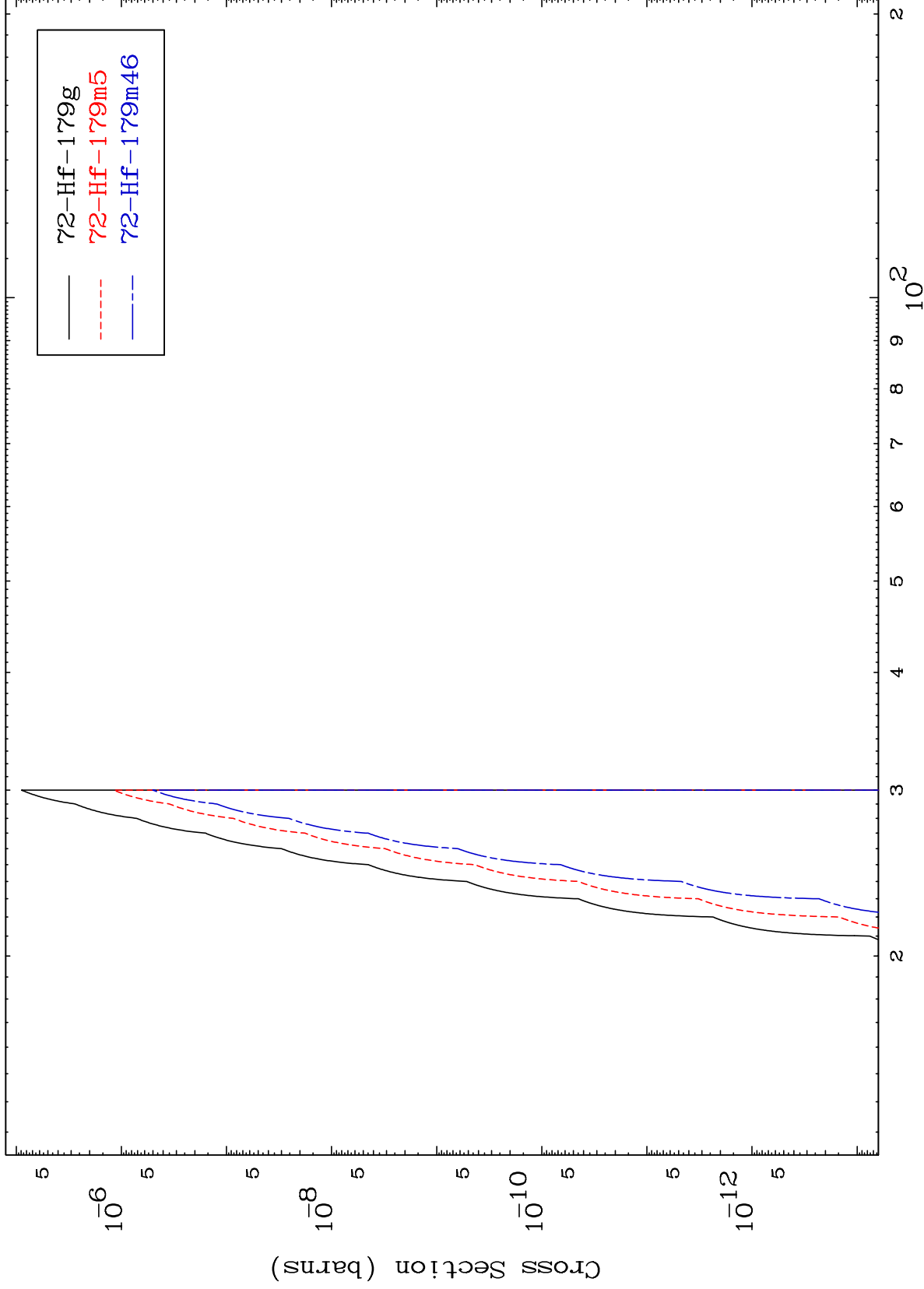
130

Incident Energy (MeV)

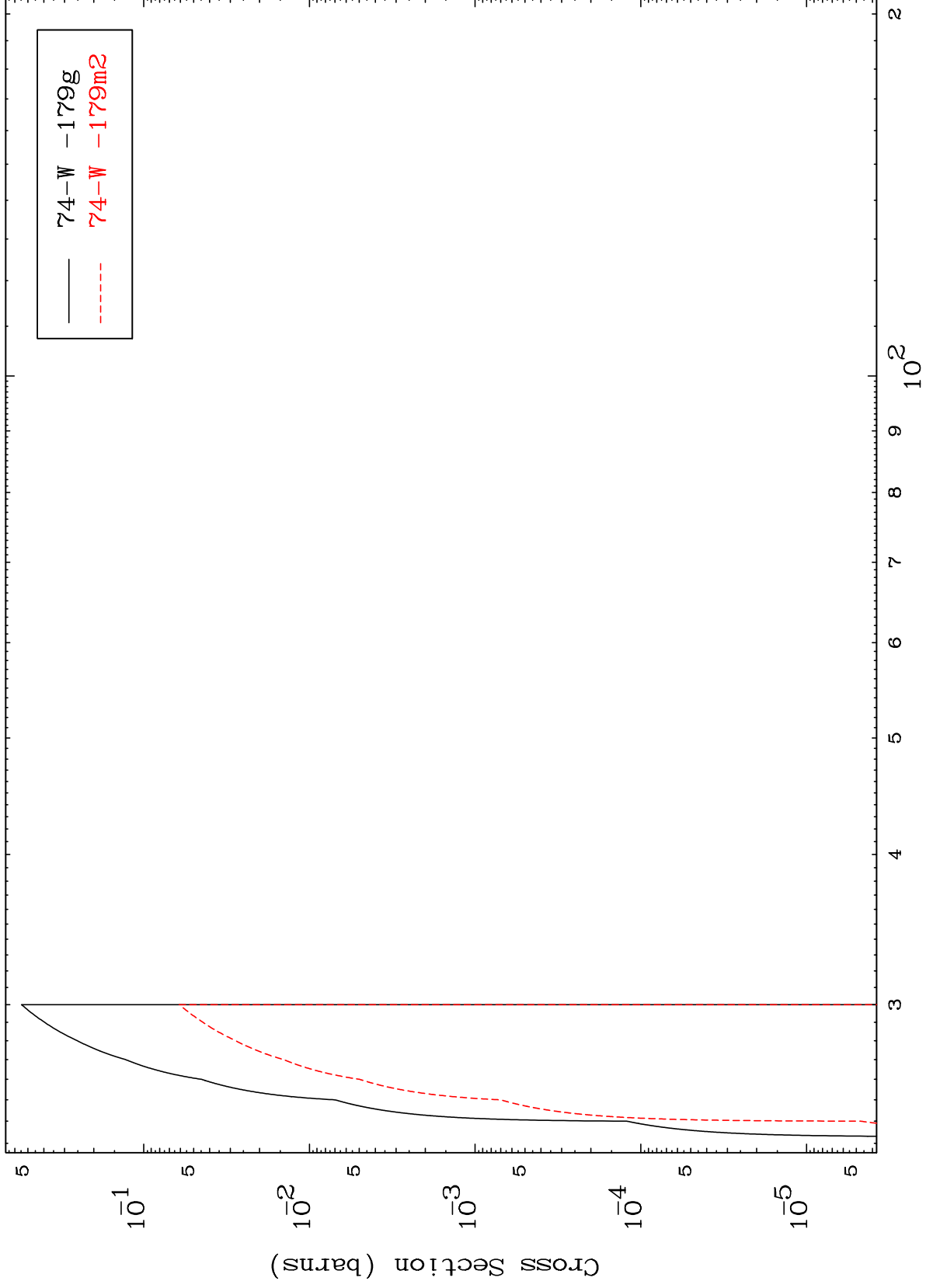
74-W -182



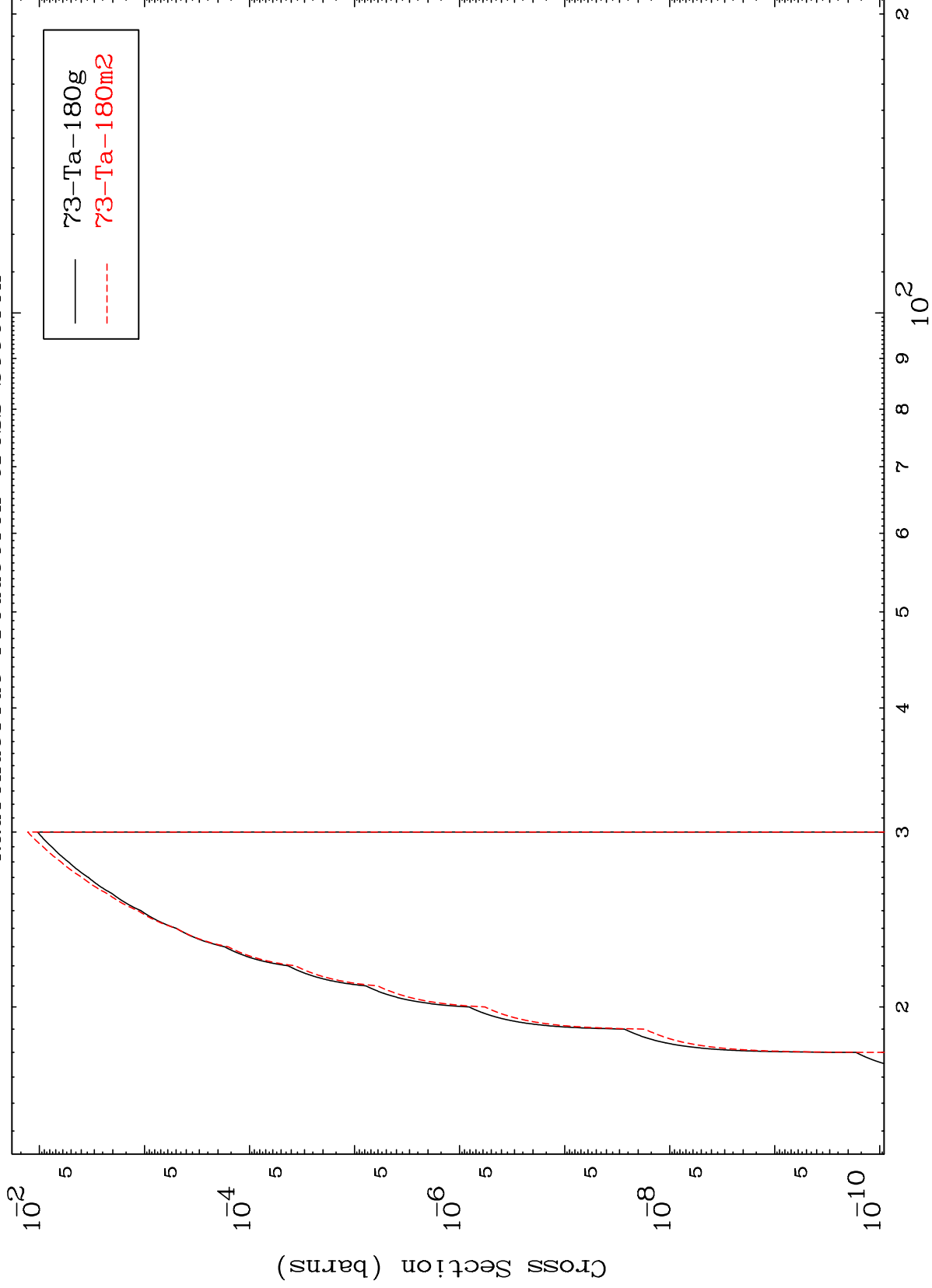
Radionuclide Production Cross Section



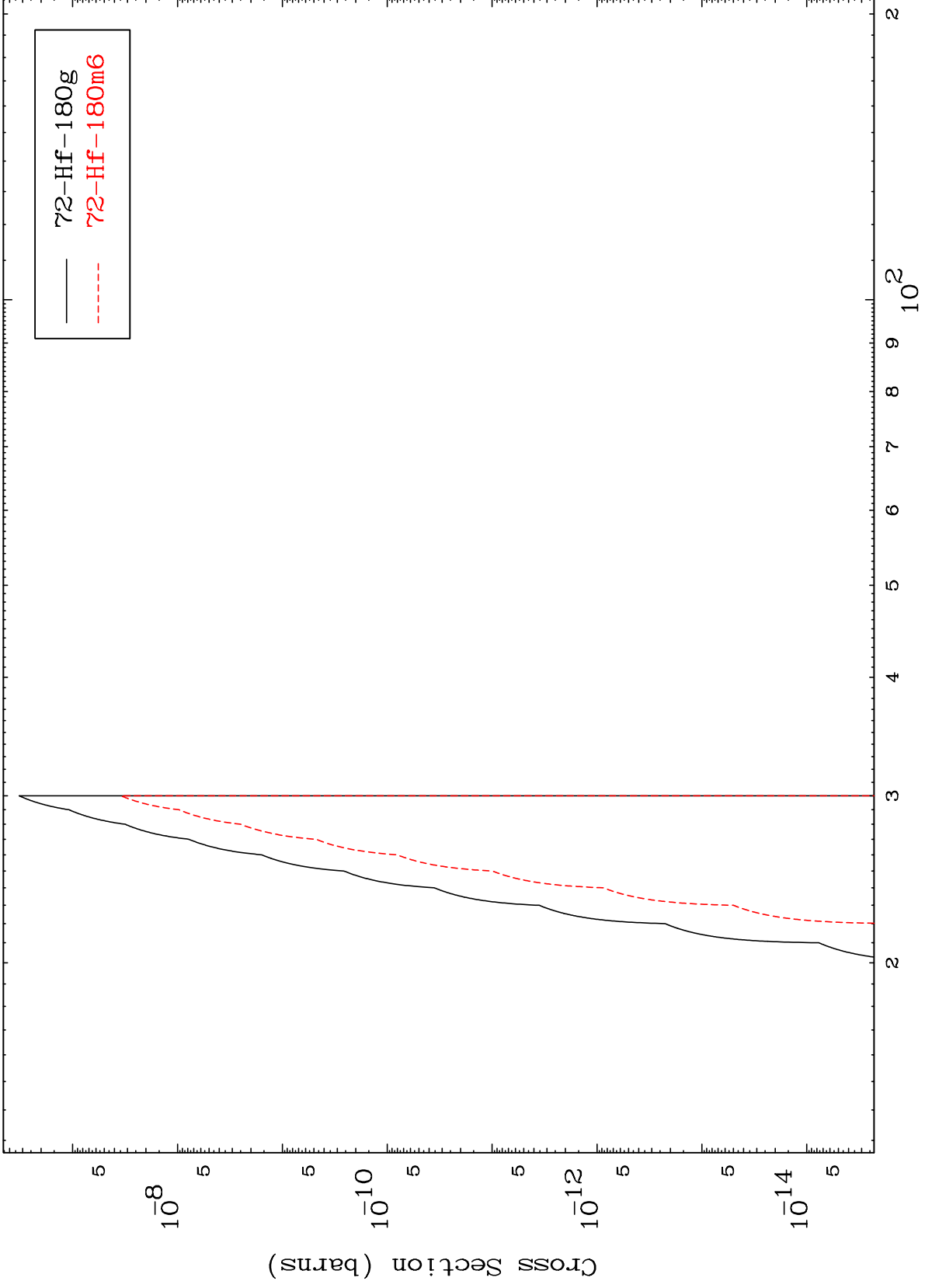
Radionuclide Production Cross Section



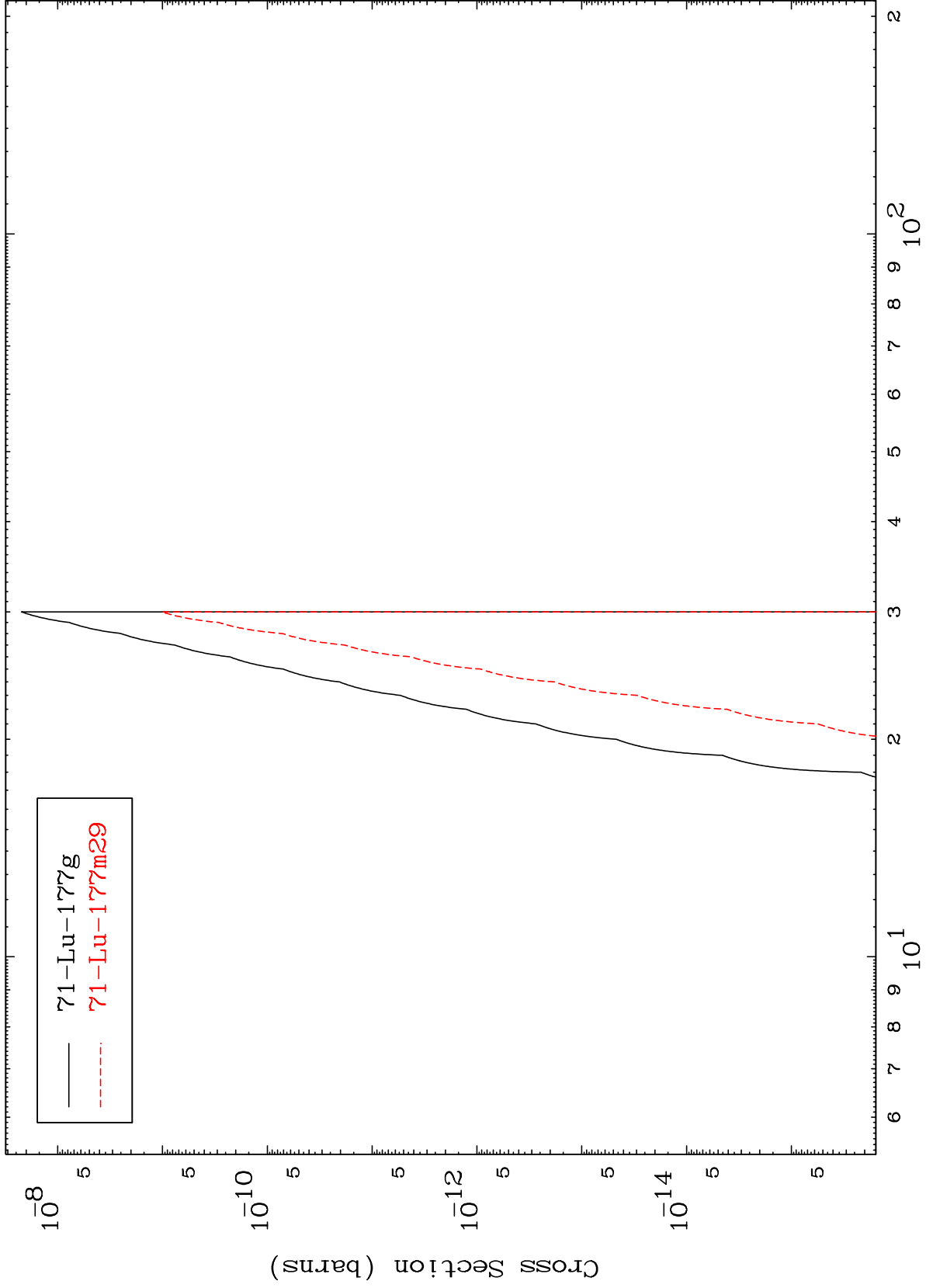
Radionuclide Production Cross Section



(n,2n) p  
Radionuclide Production Cross Section



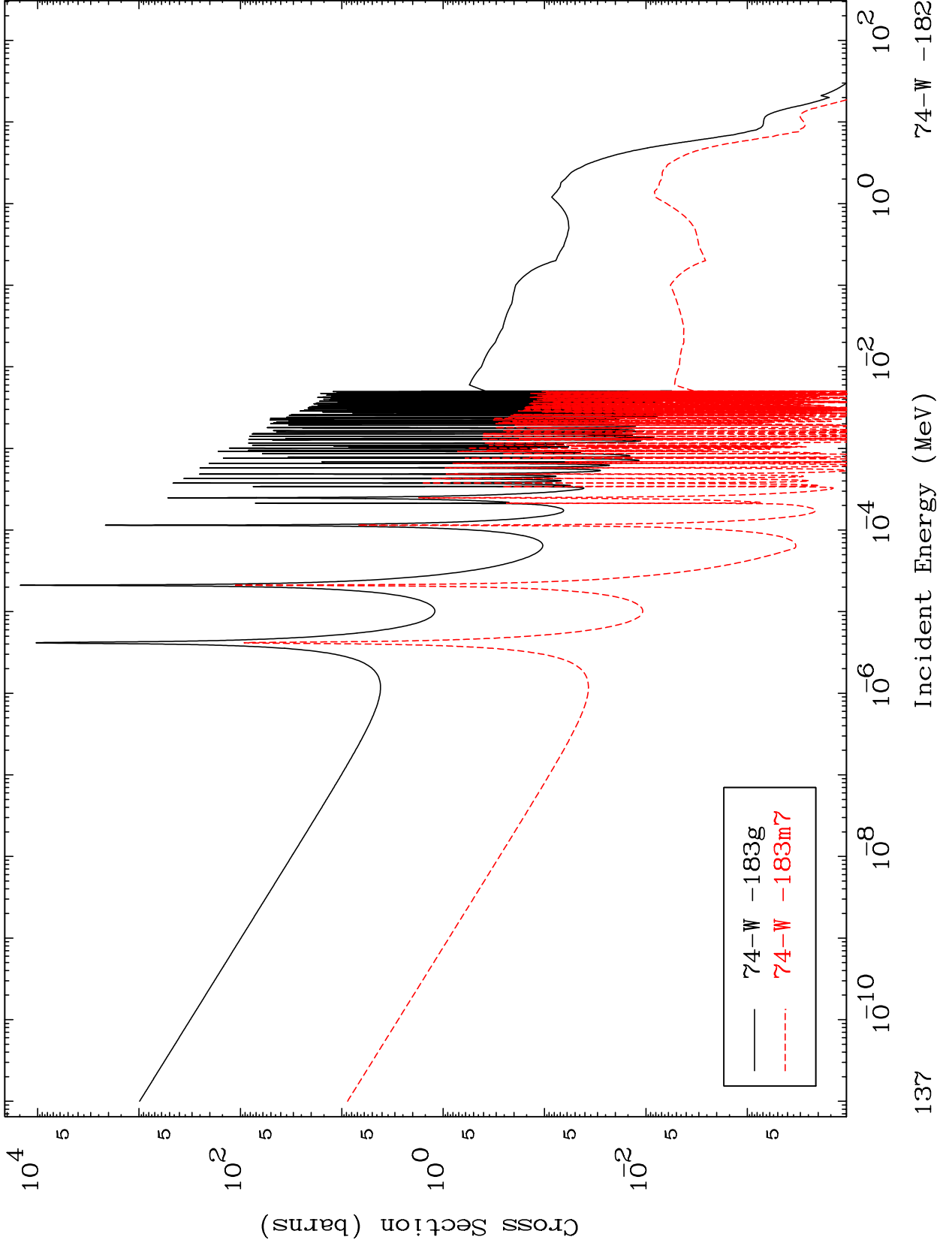
Radionuclide Production Cross Section



MAT 7431

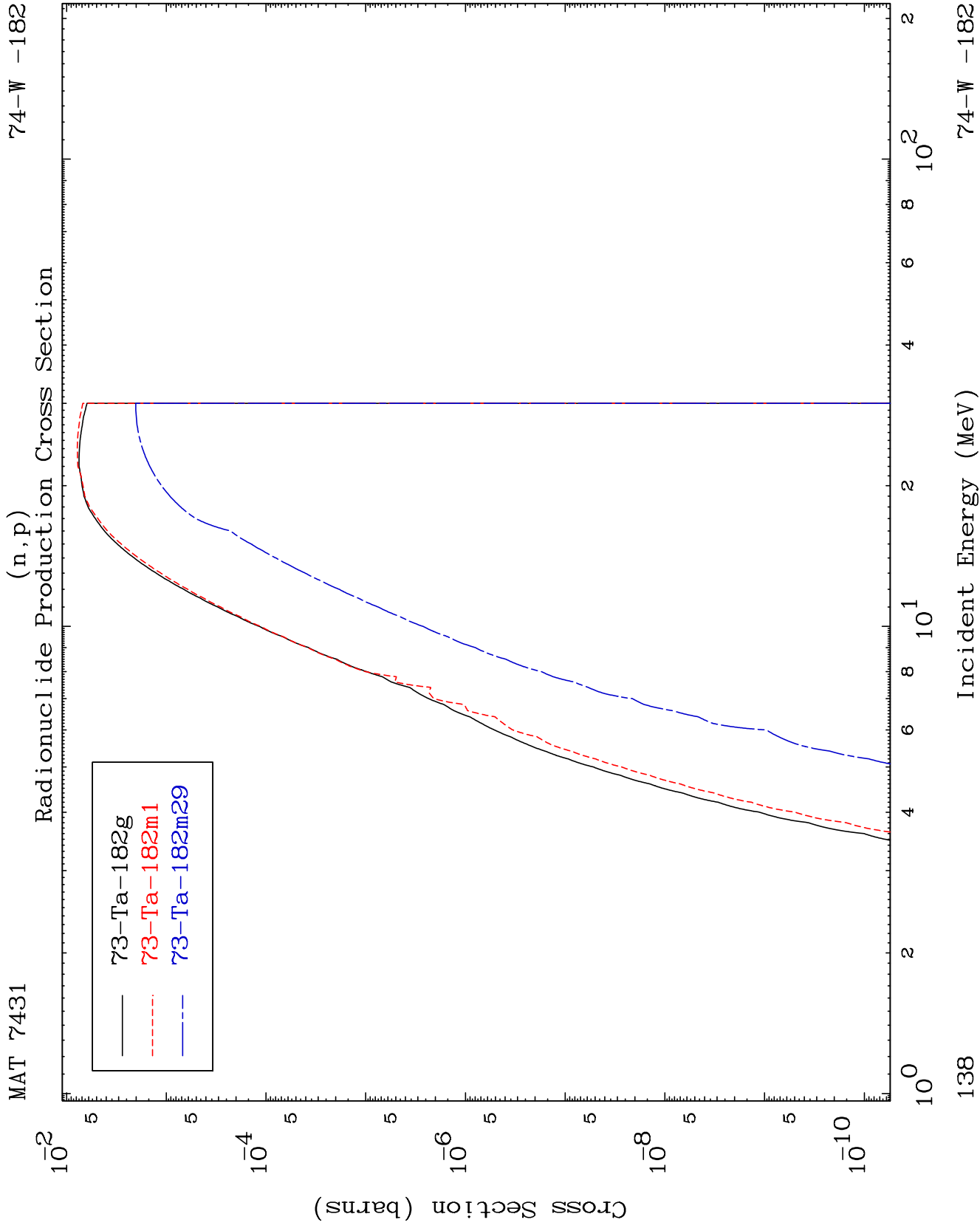
74-W -182

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



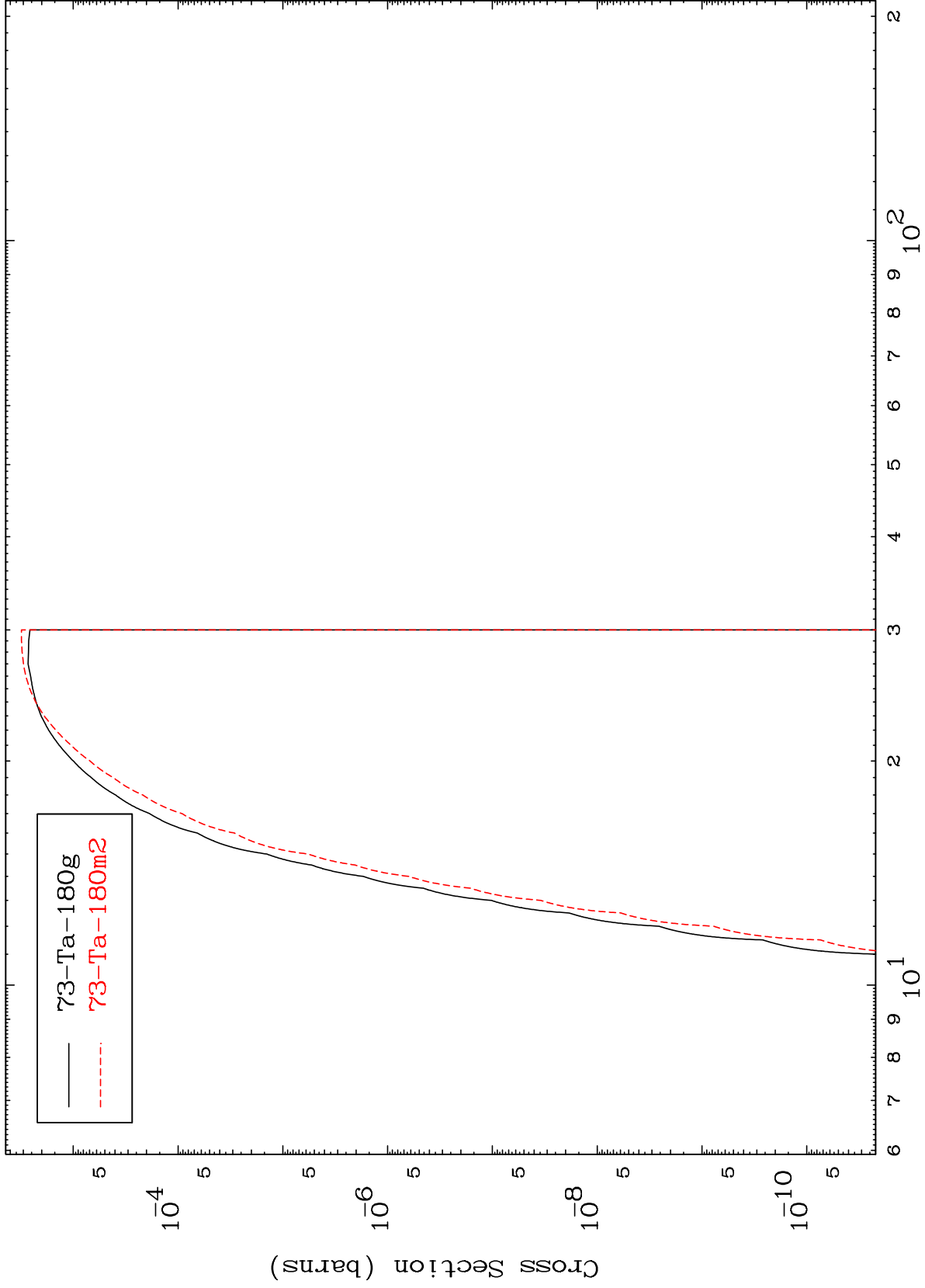
MAT 7431

74-W -182



138

(n, t)  
Radionuclide Production Cross Section

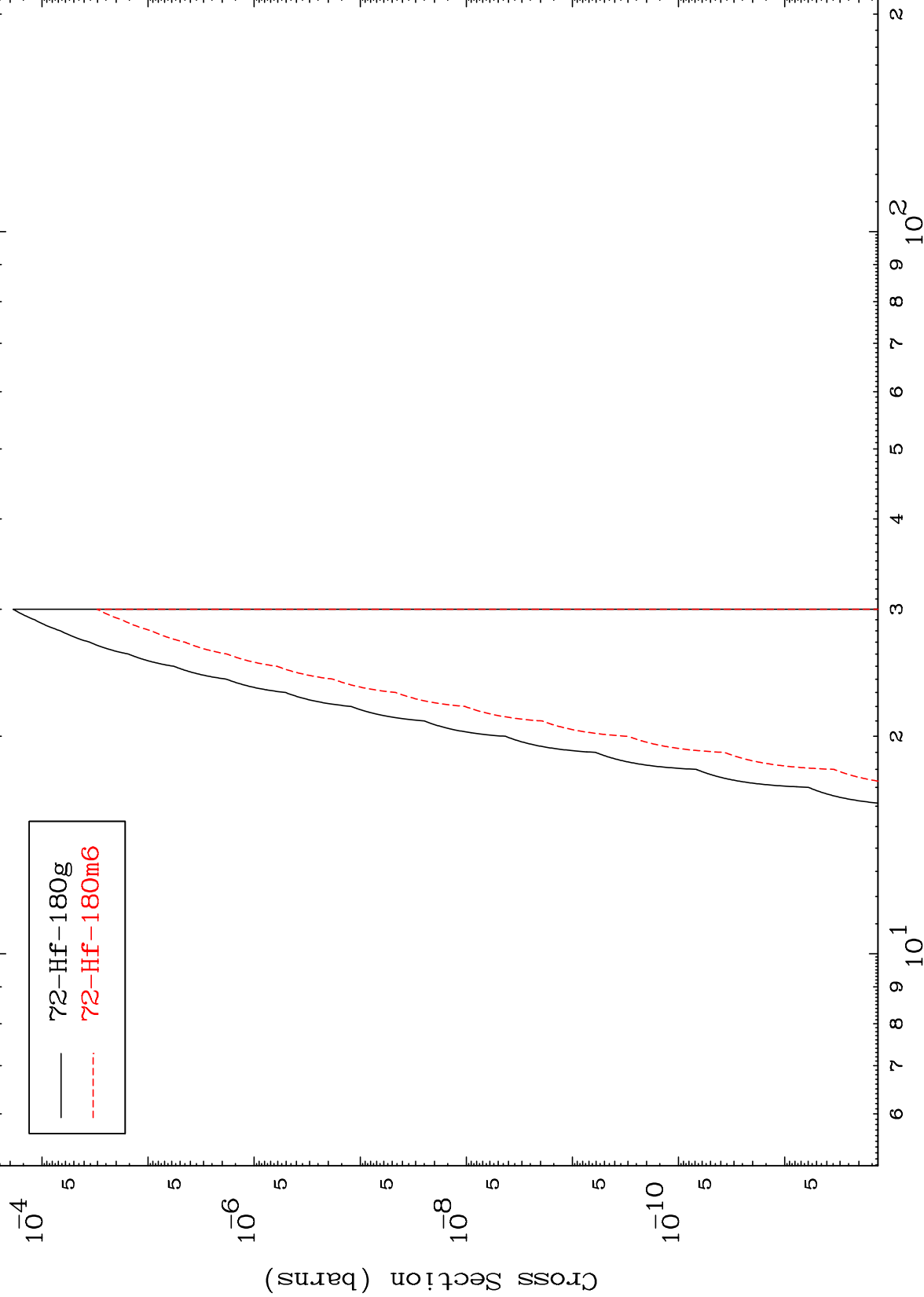


MAT 7431

(n,He-3)

74-W -182

Radionuclide Production Cross Section



72-Hf-180g  
72-Hf-180m6

140

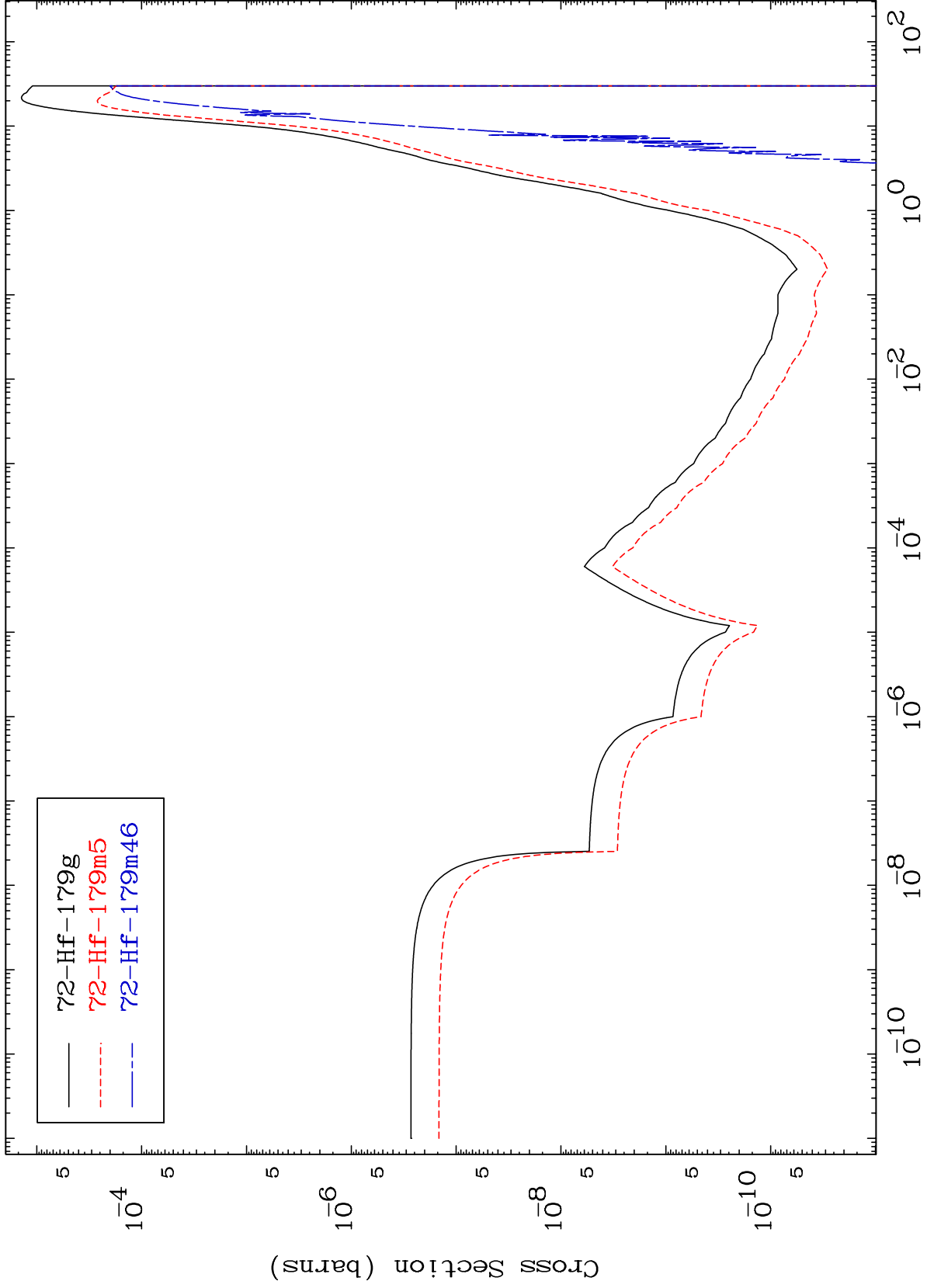
Incident Energy (MeV)

74-W -182

MAT 7431

74-W -182

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



141

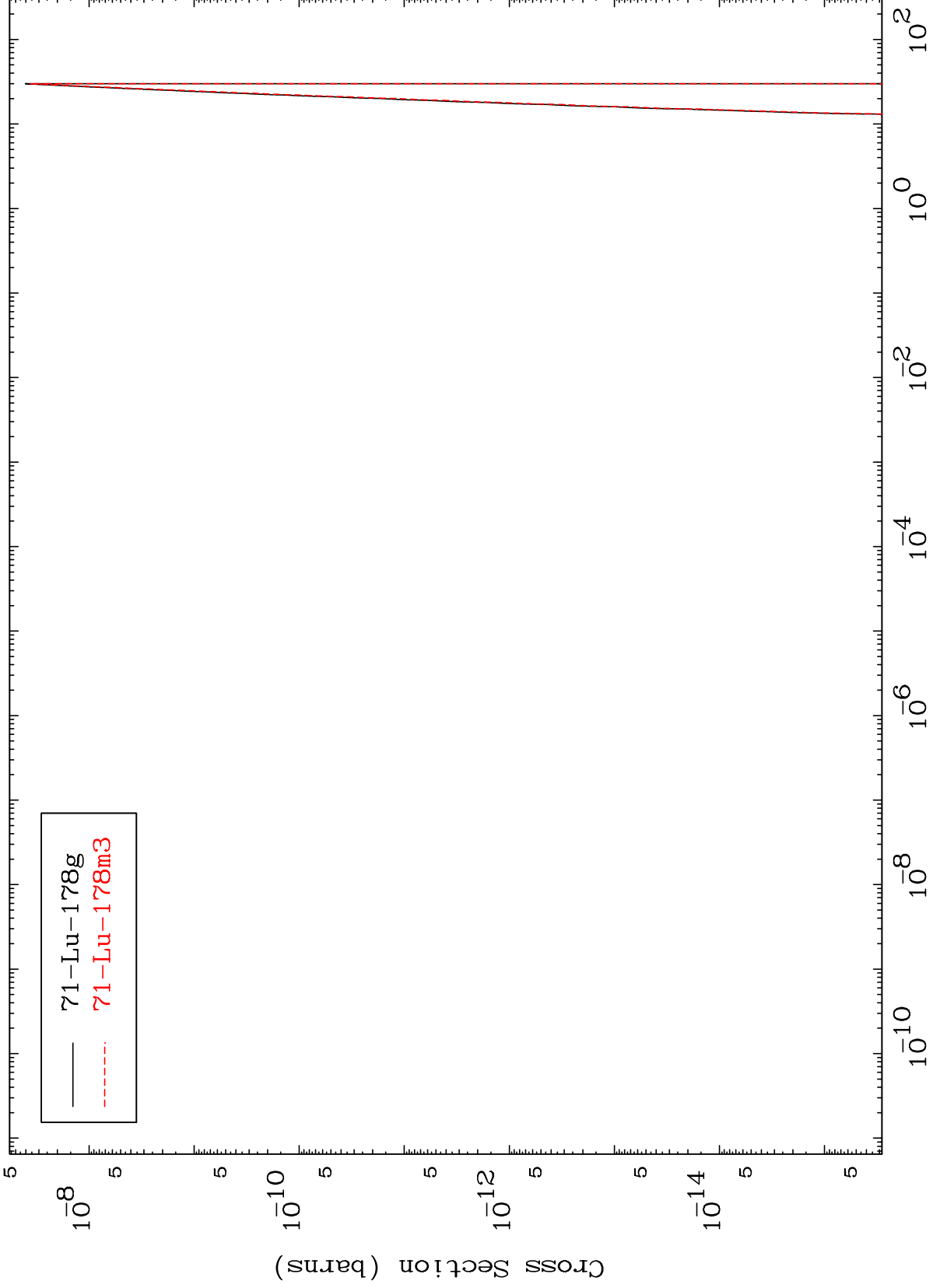
74-W -182

MAT 7431

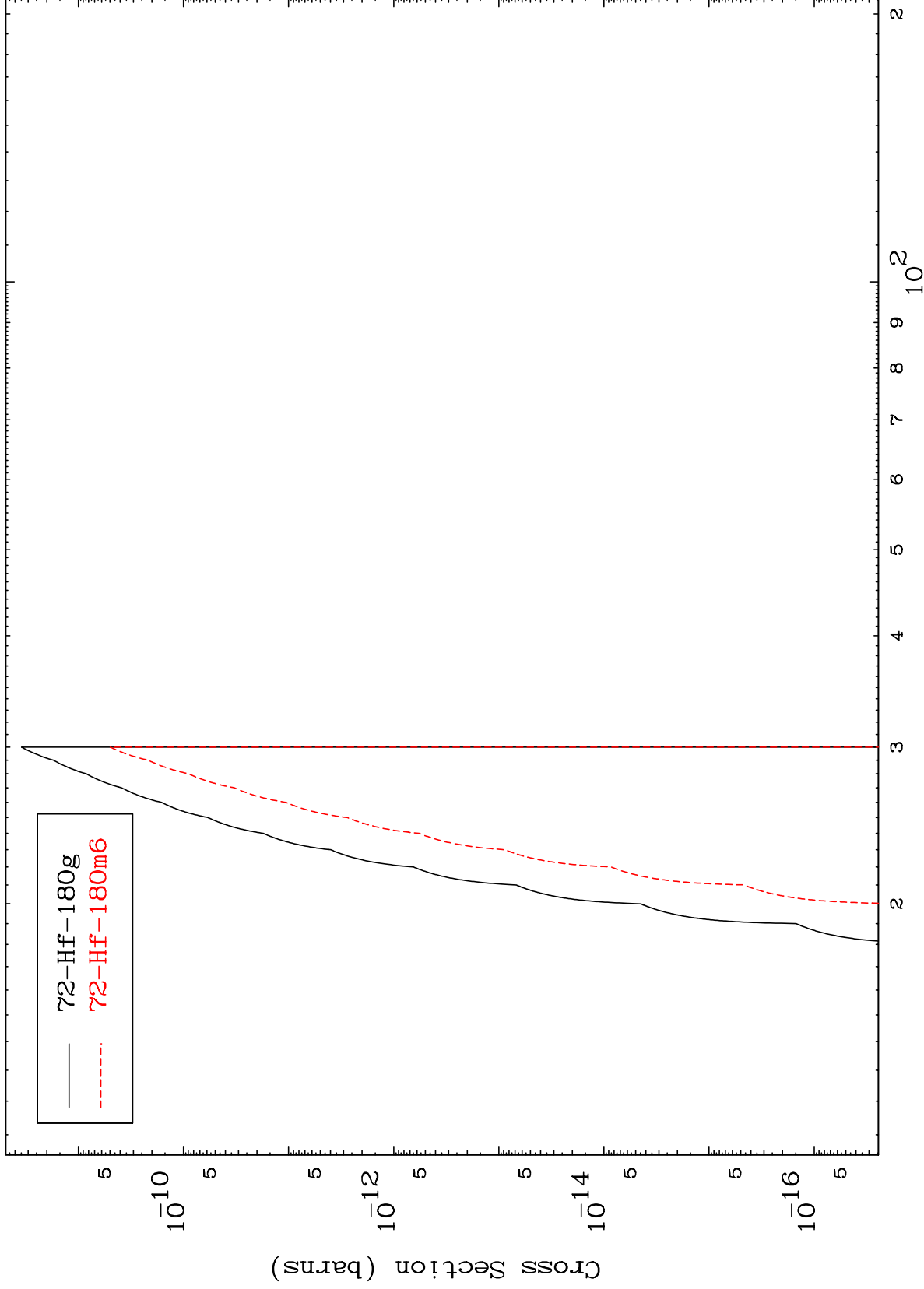
(n,p)  $\alpha$

74-W -182

Radionuclide Production Cross Section



Radionuclide Production Cross Section



Radionuclide Production Cross Section

