

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

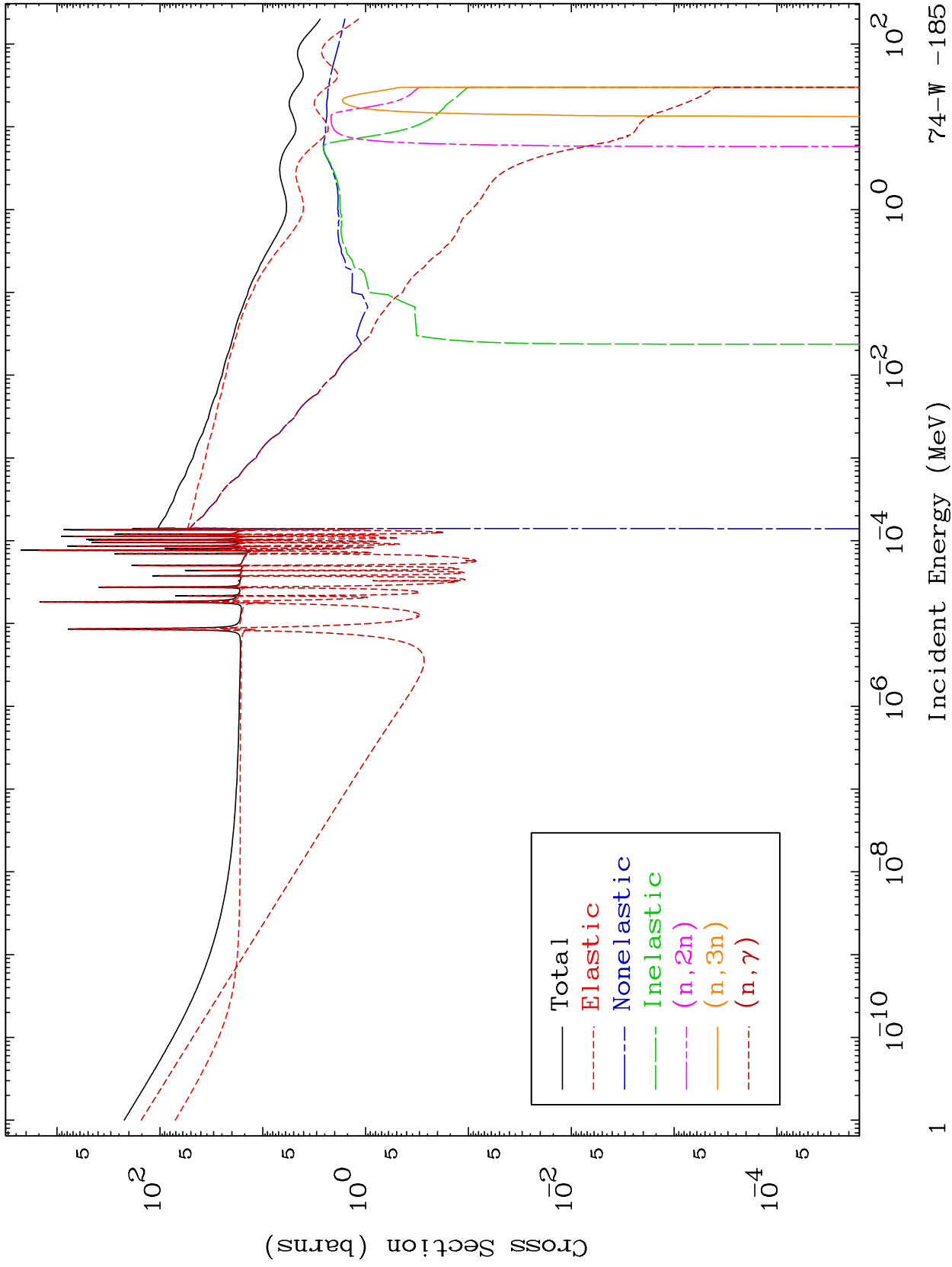
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7440

Neutron Major  
293 Kelvin Cross Sections

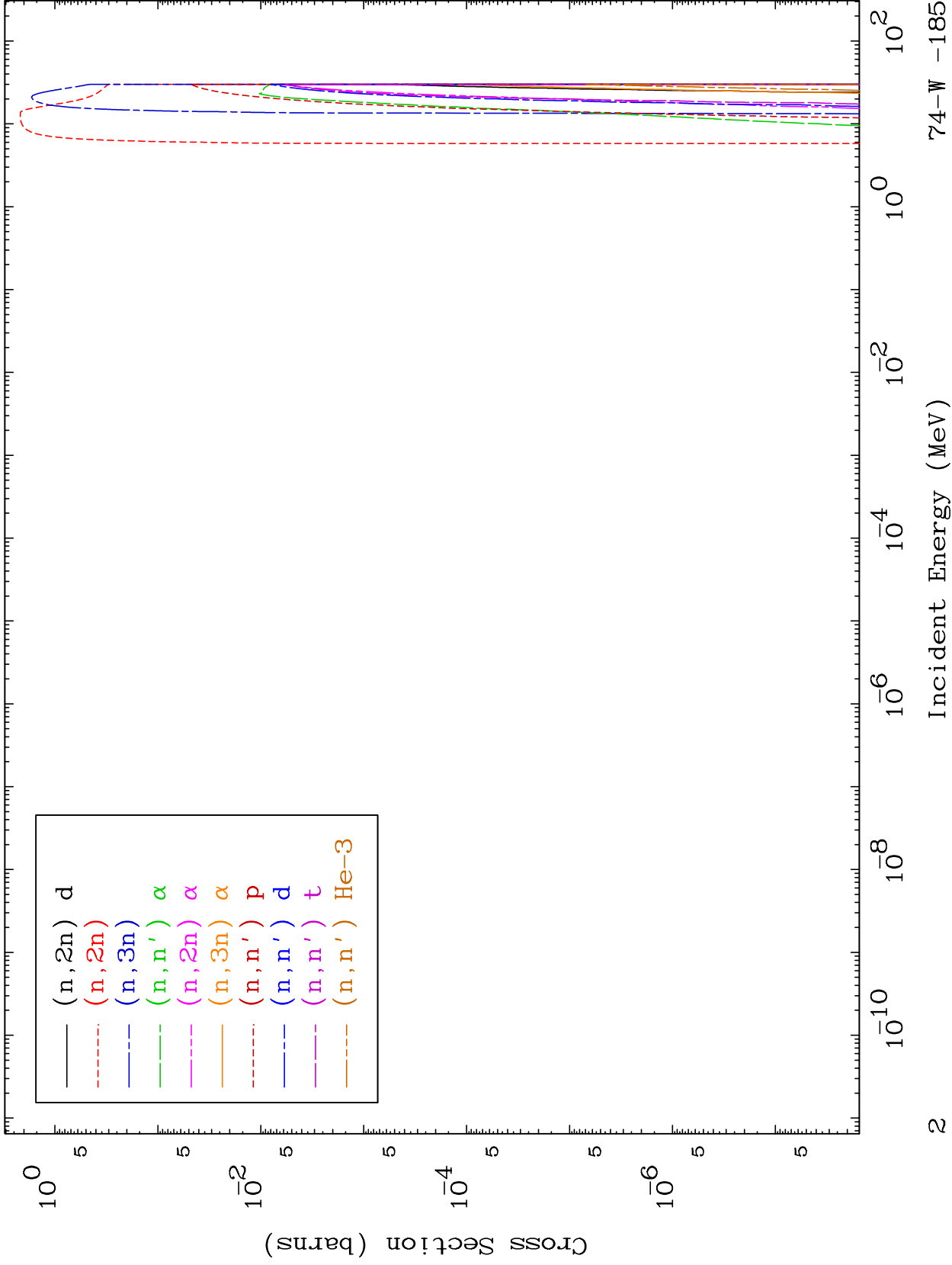
74-W -185

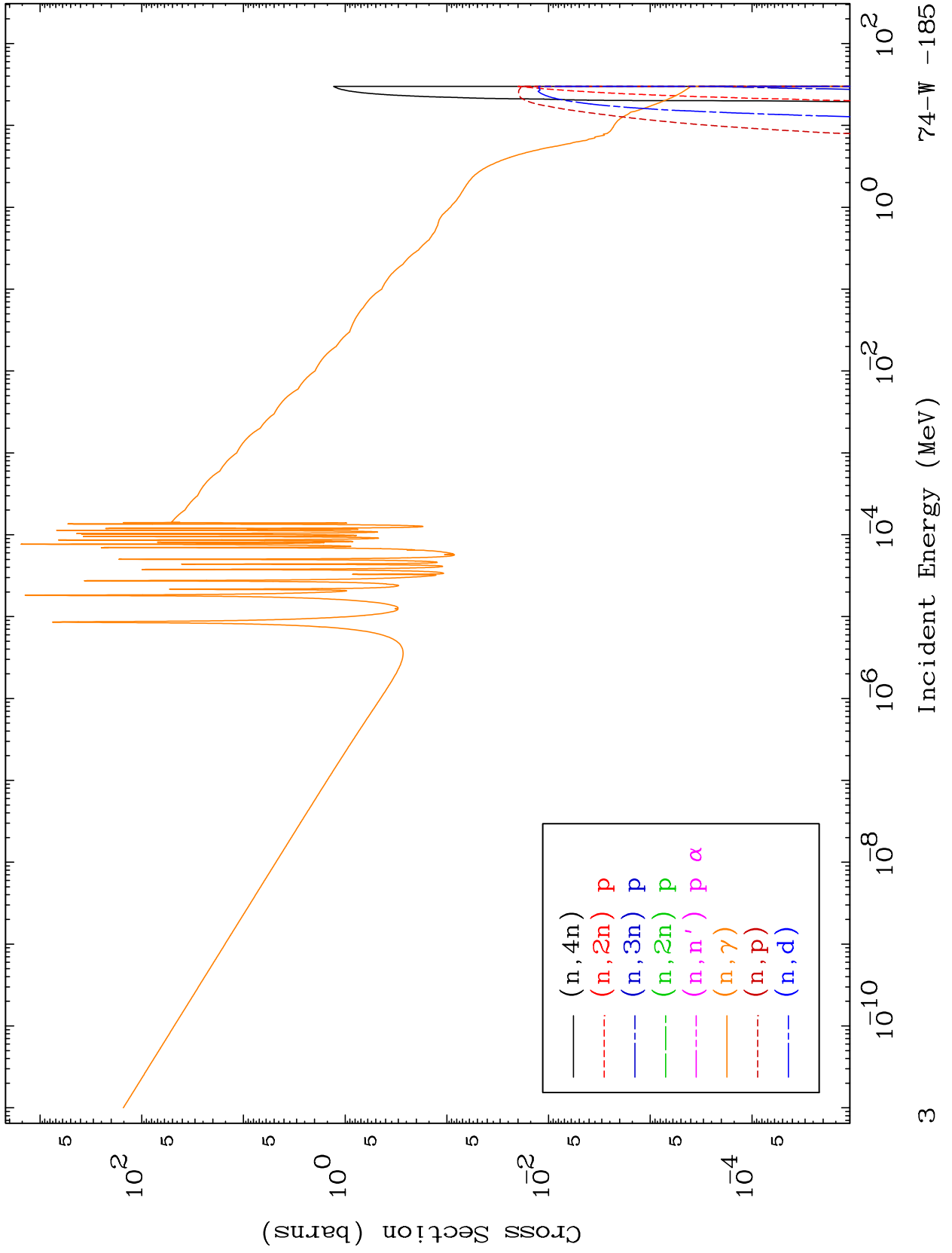


MAT 7440

Neutron Absorption  
293 Kelvin Cross Sections

74-W -185

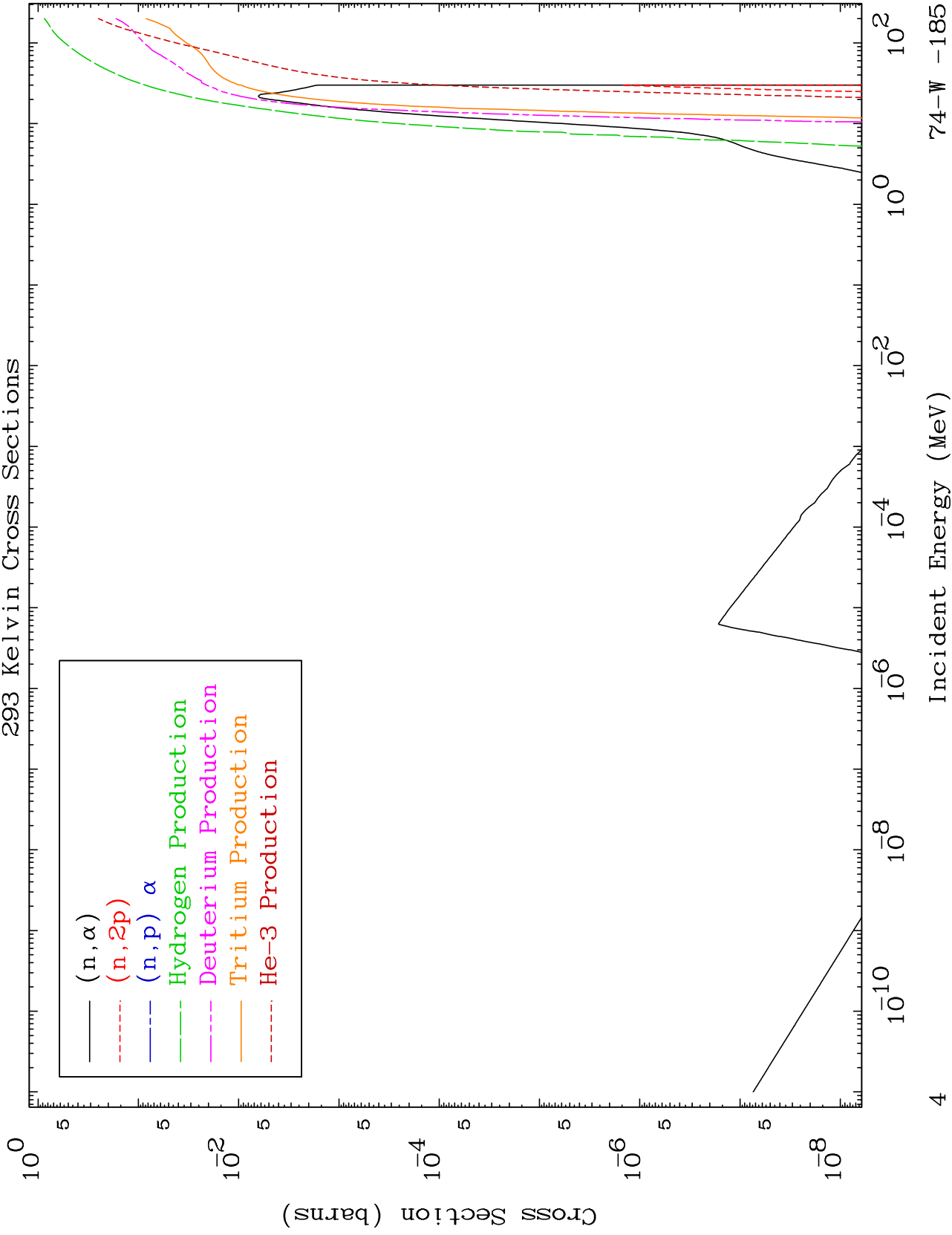




MAT 7440

Neutron Absorption  
293 Kelvin Cross Sections

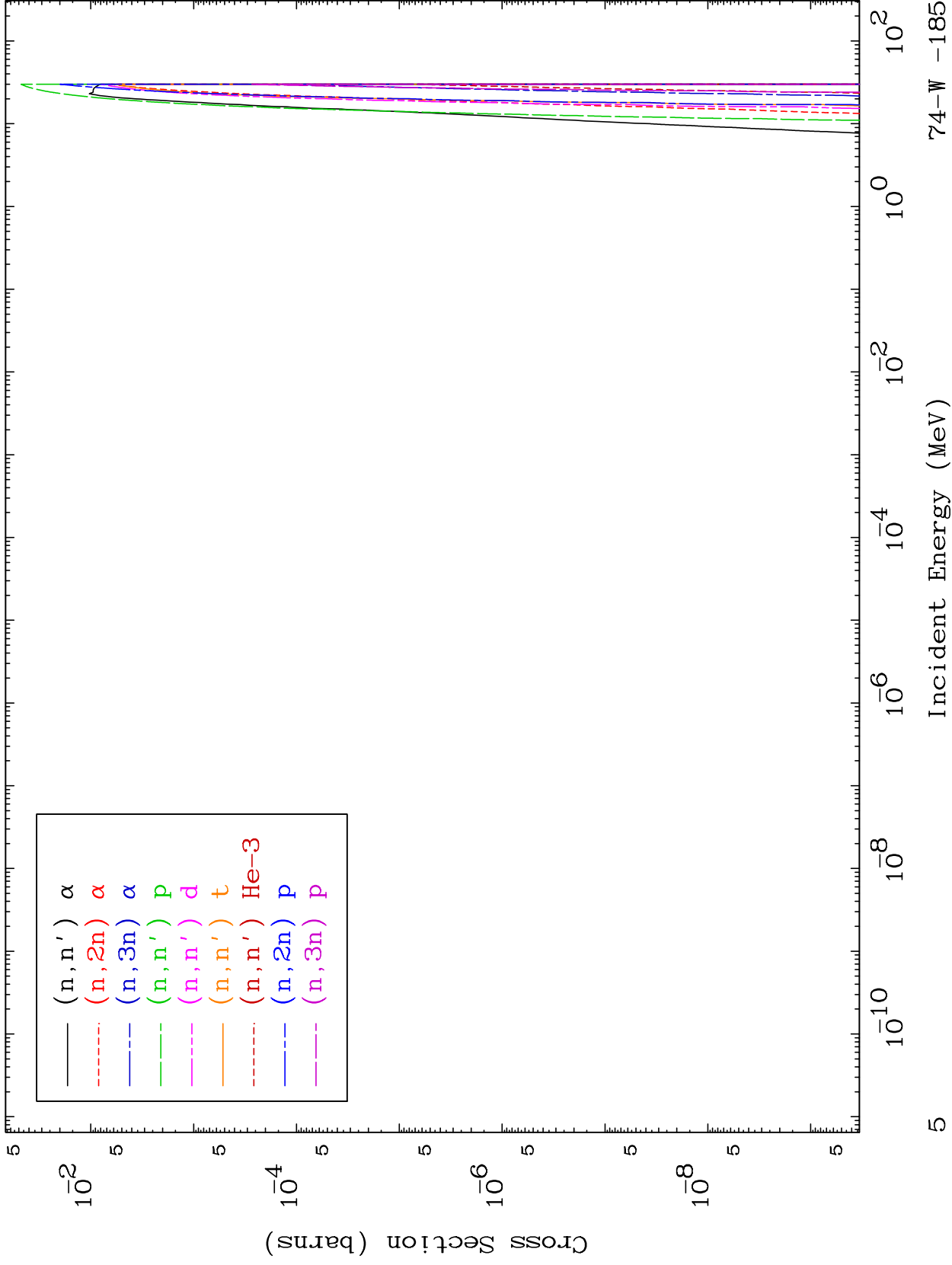
74-W -185



MAT 7440

Charged Particle  
293 Kelvin Cross Sections

74-W -185



5

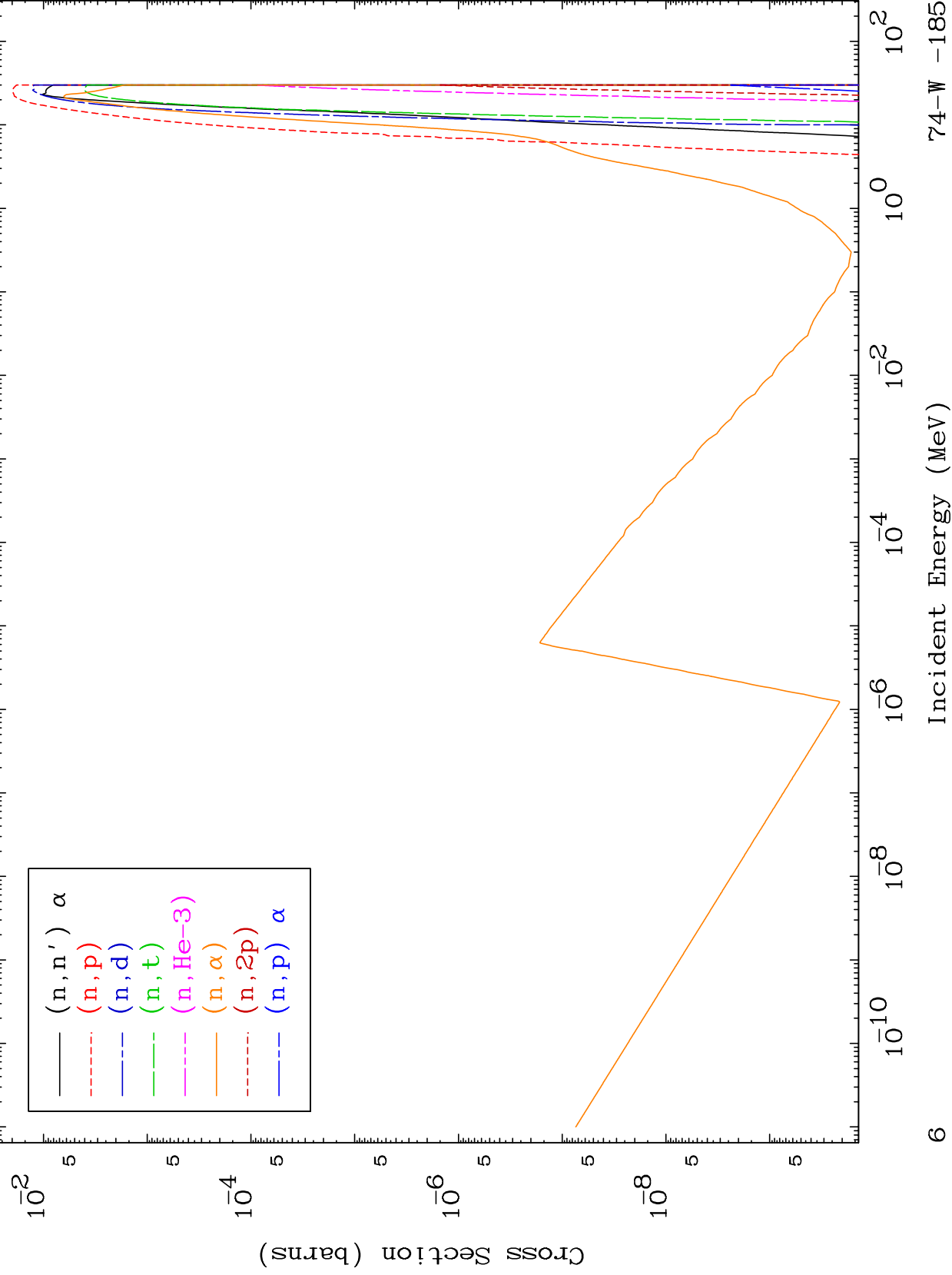
Incident Energy (MeV)

74-W -185

MAT 7440

Charged Particle  
293 Kelvin Cross Sections

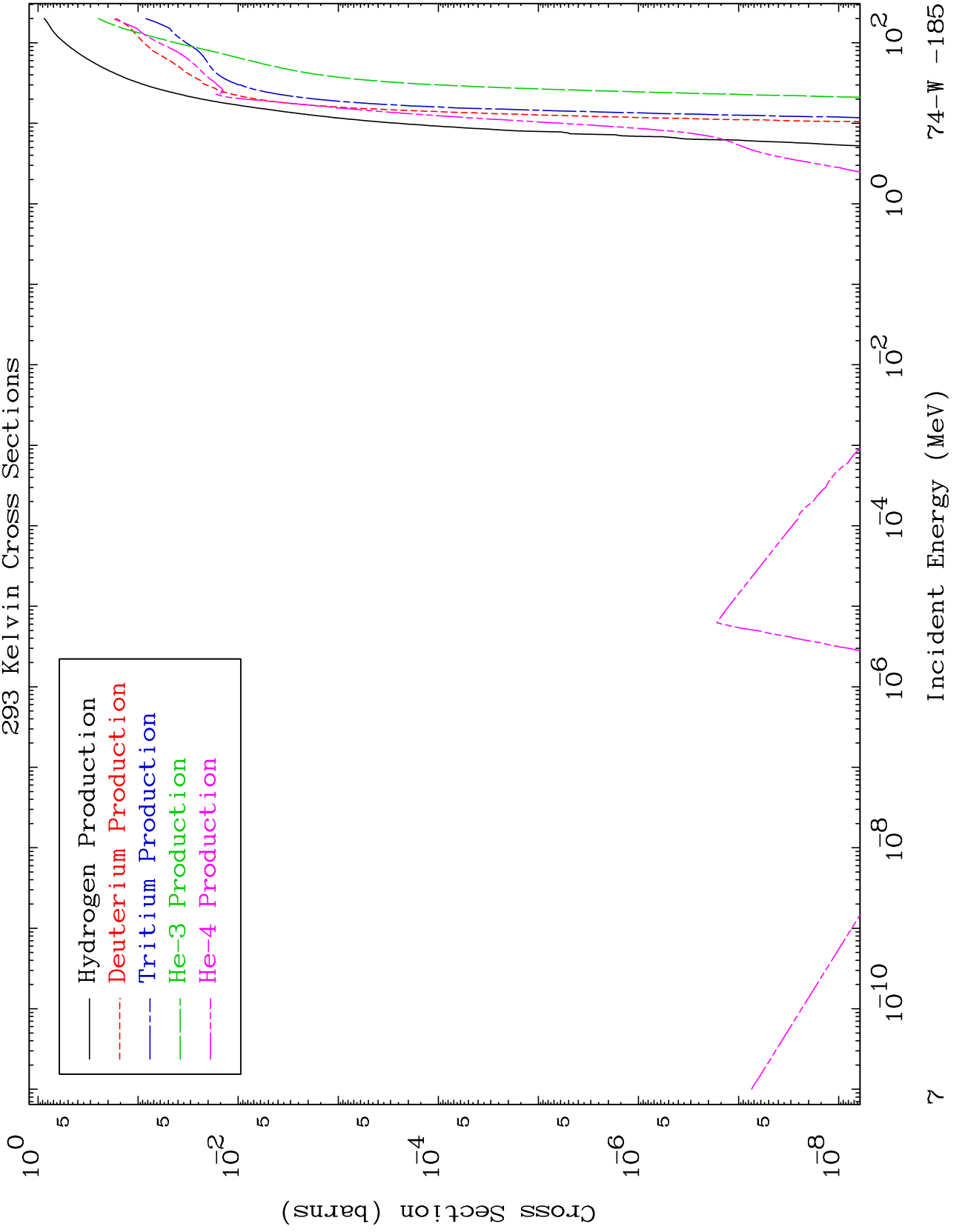
74-W -185

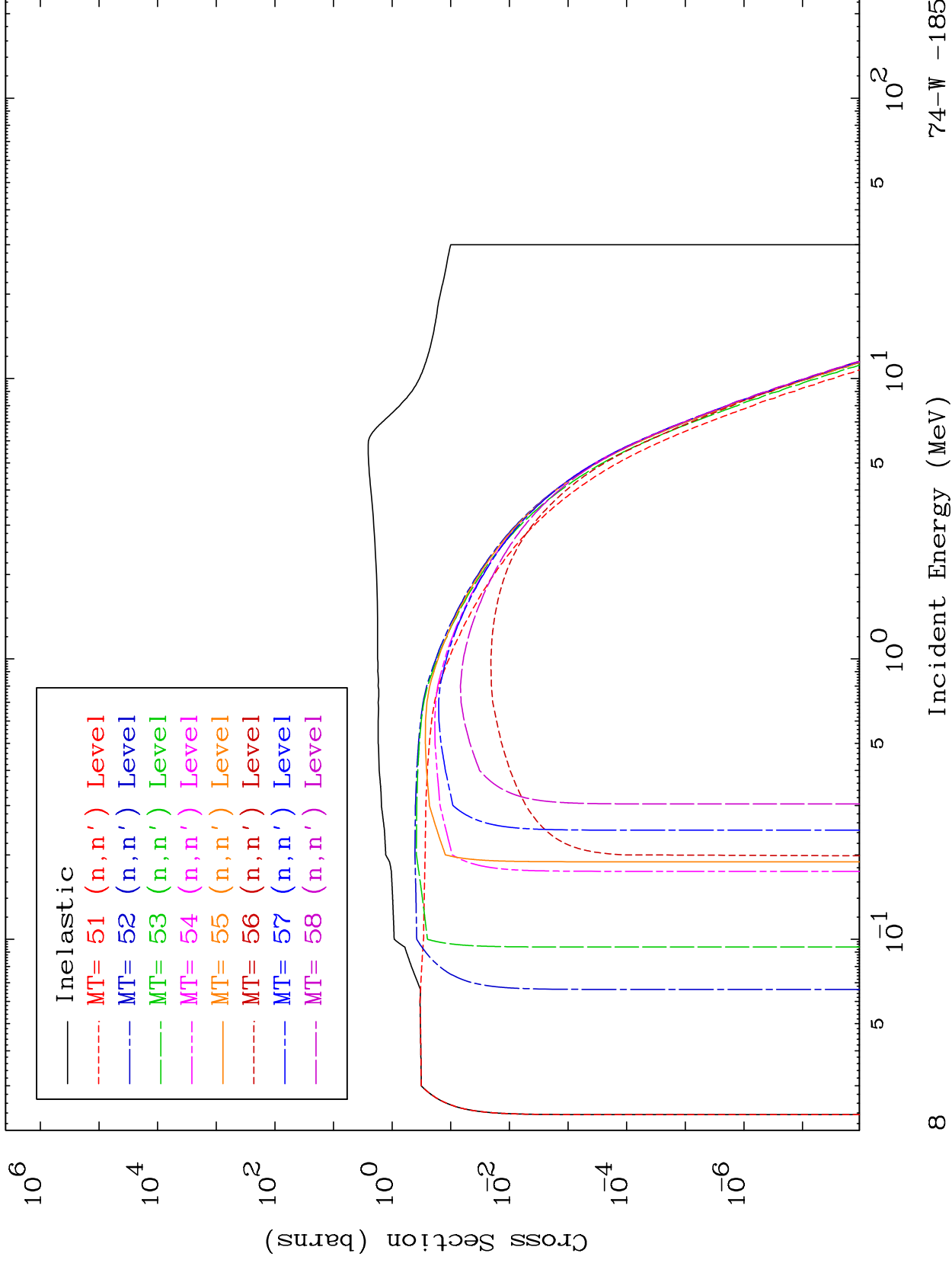


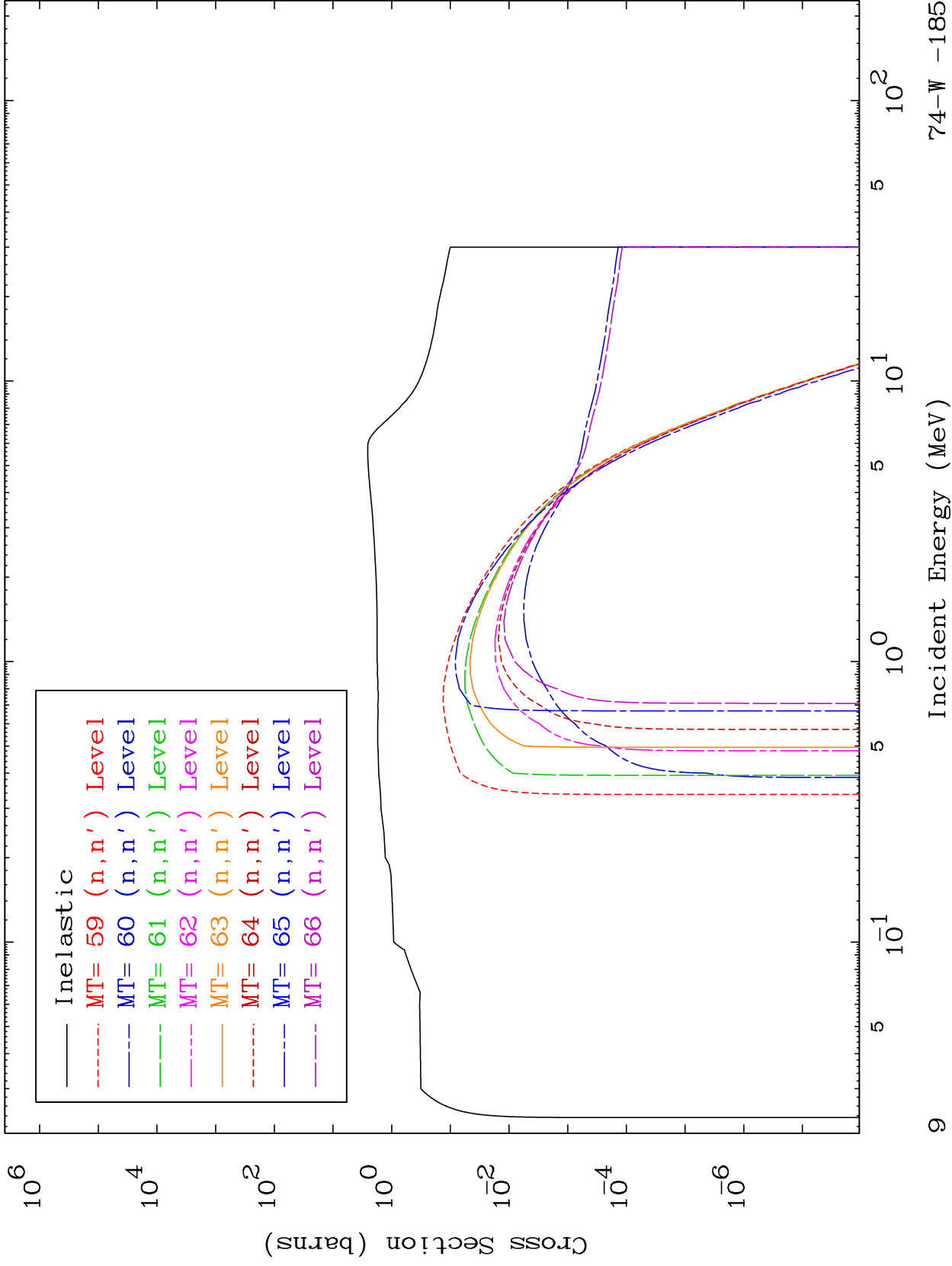
MAT 7440

Particle Production  
293 Kelvin Cross Sections

74-W -185



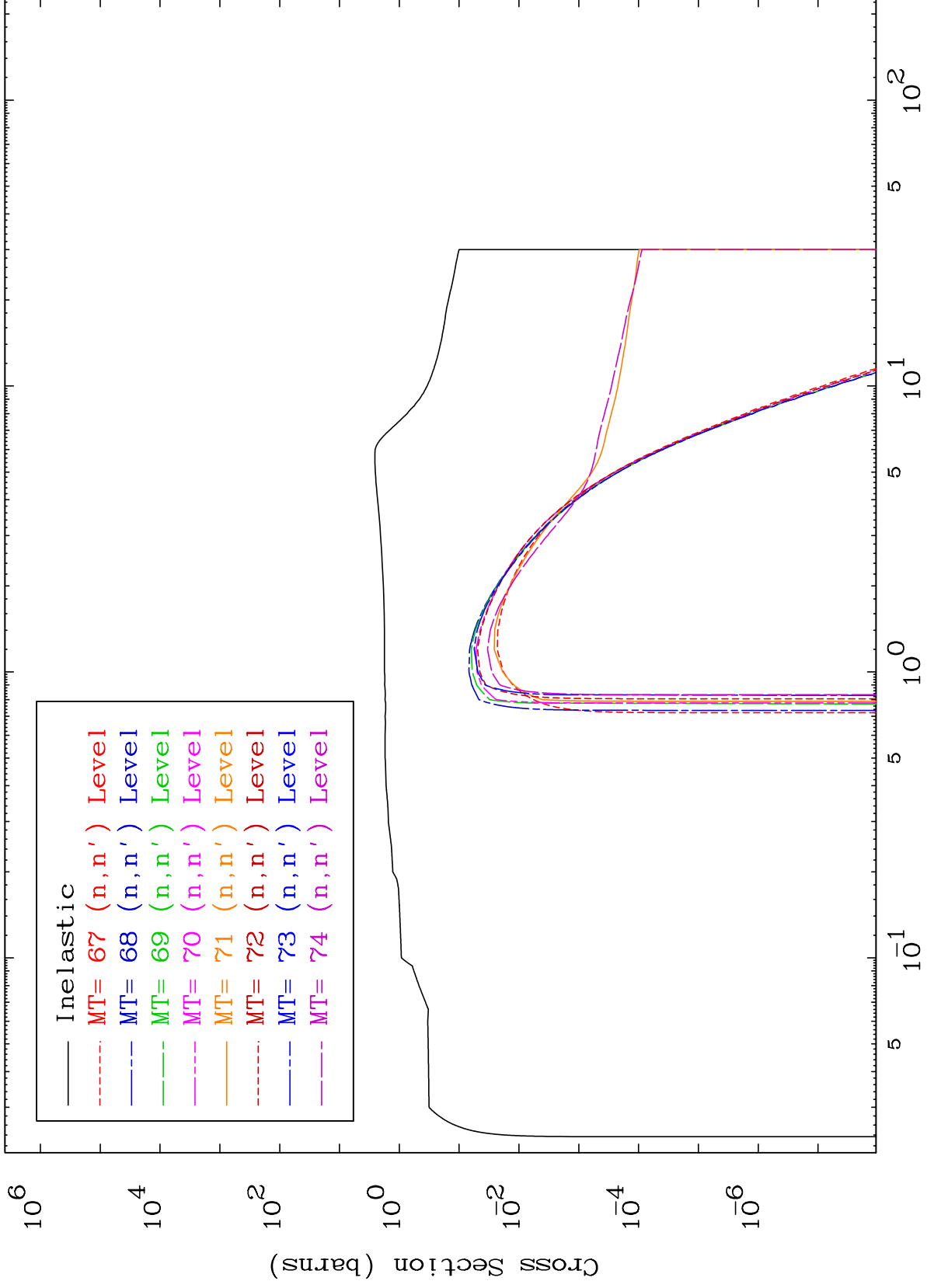




MAT 7440

(n,n') Levels  
293 Kelvin Cross Sections

74-W -185



10

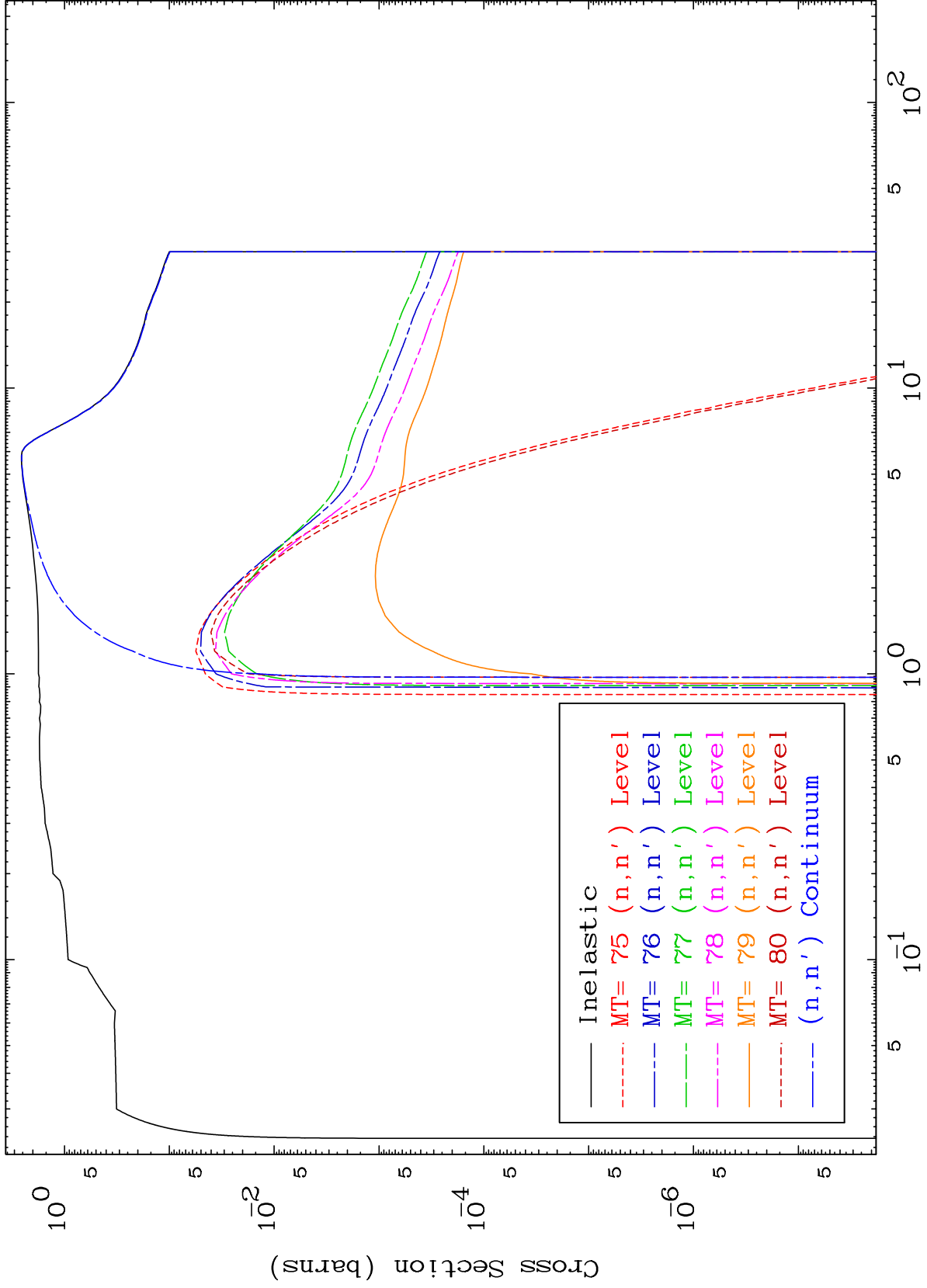
Incident Energy (MeV)

74-W -185

MAT 7440

(n,n') Levels  
293 Kelvin Cross Sections

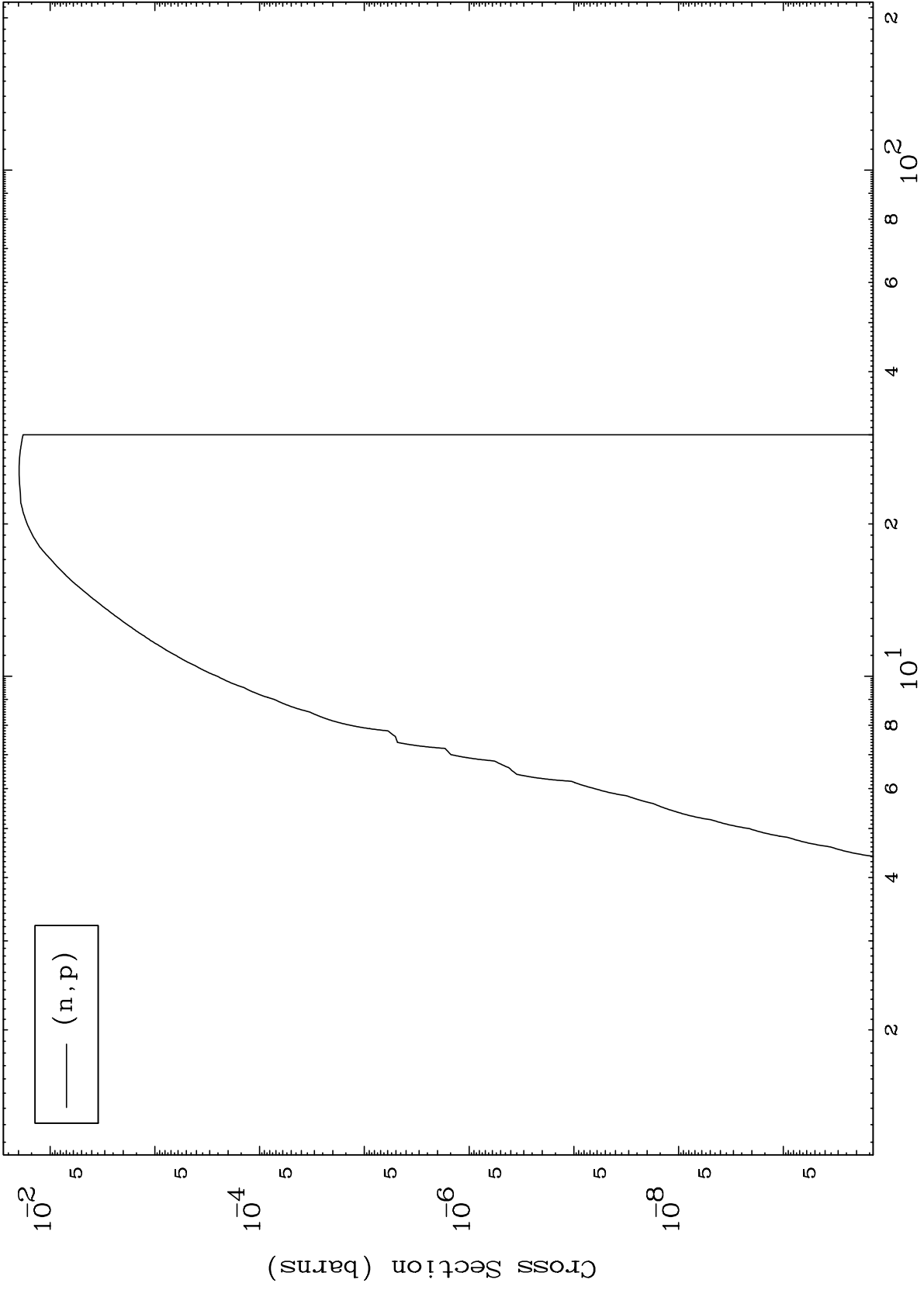
74-W -185



MAT 7440

(n,p) Levels  
293 Kelvin Cross Sections

74-W -185



12

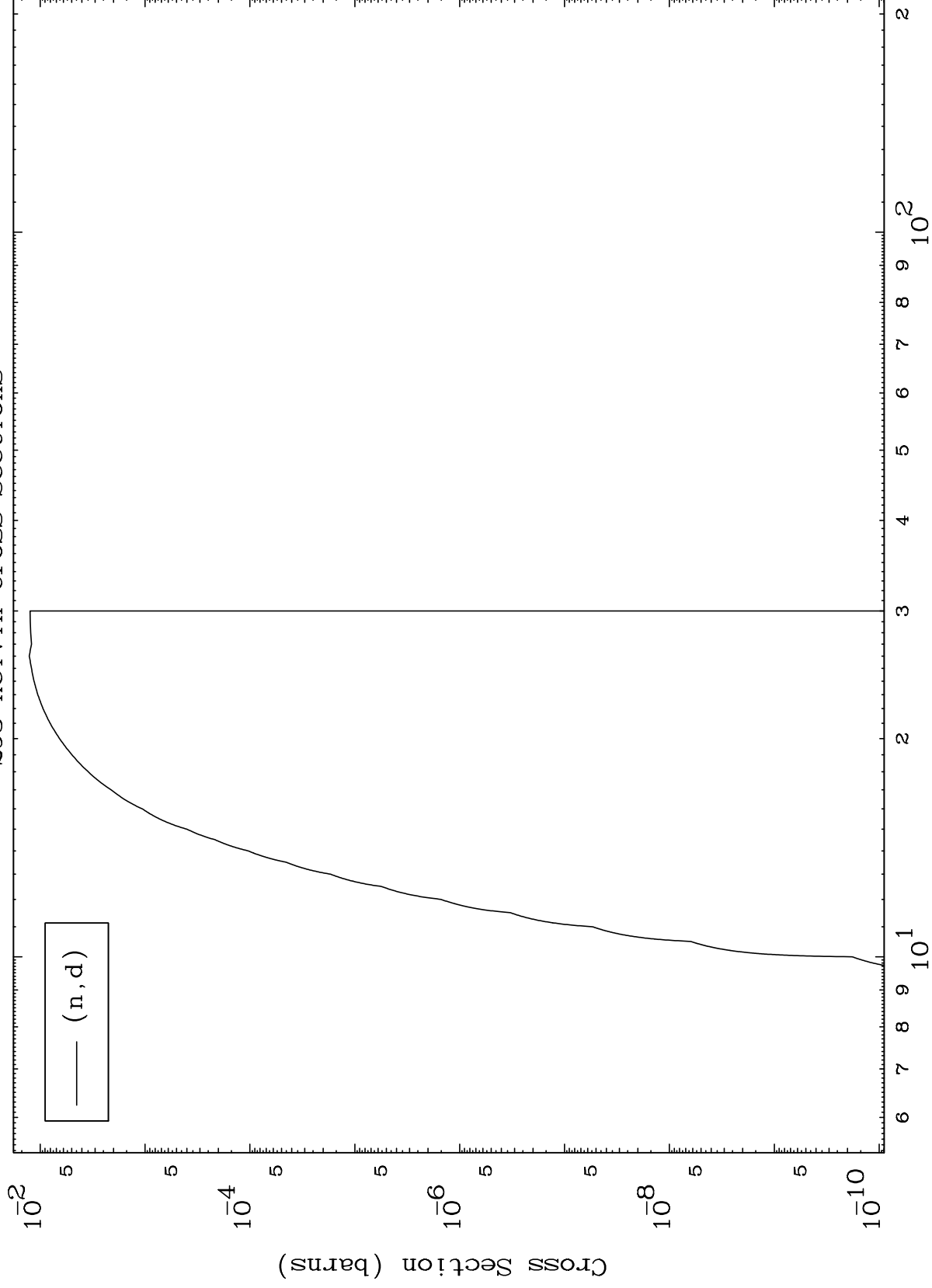
Incident Energy (MeV)

74-W -185

MAT 7440

(n,d) Levels  
293 Kelvin Cross Sections

74-W -185



13

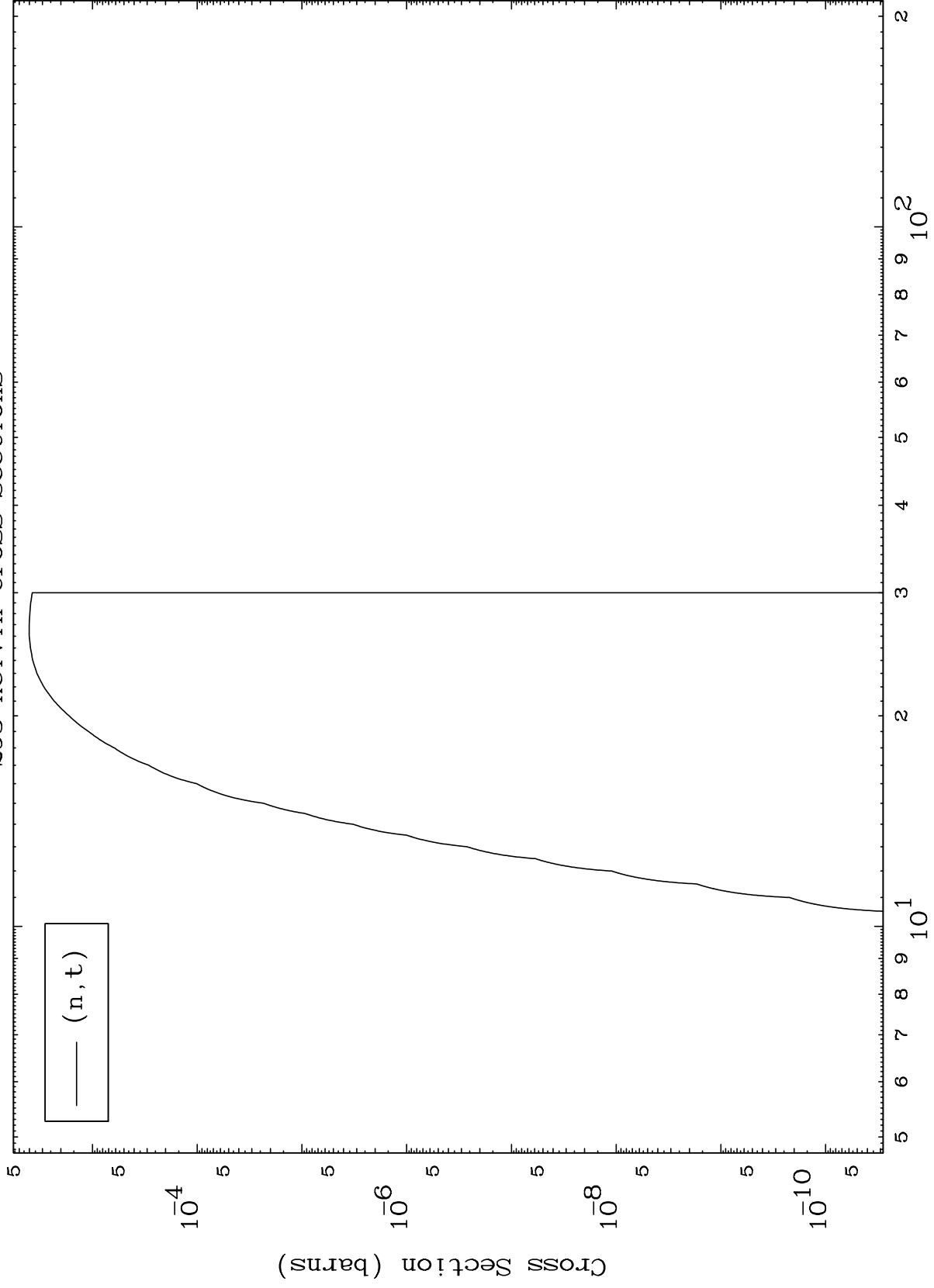
Incident Energy (MeV)

74-W -185

MAT 7440

(n,t) Levels  
293 Kelvin Cross Sections

74-W -185



14

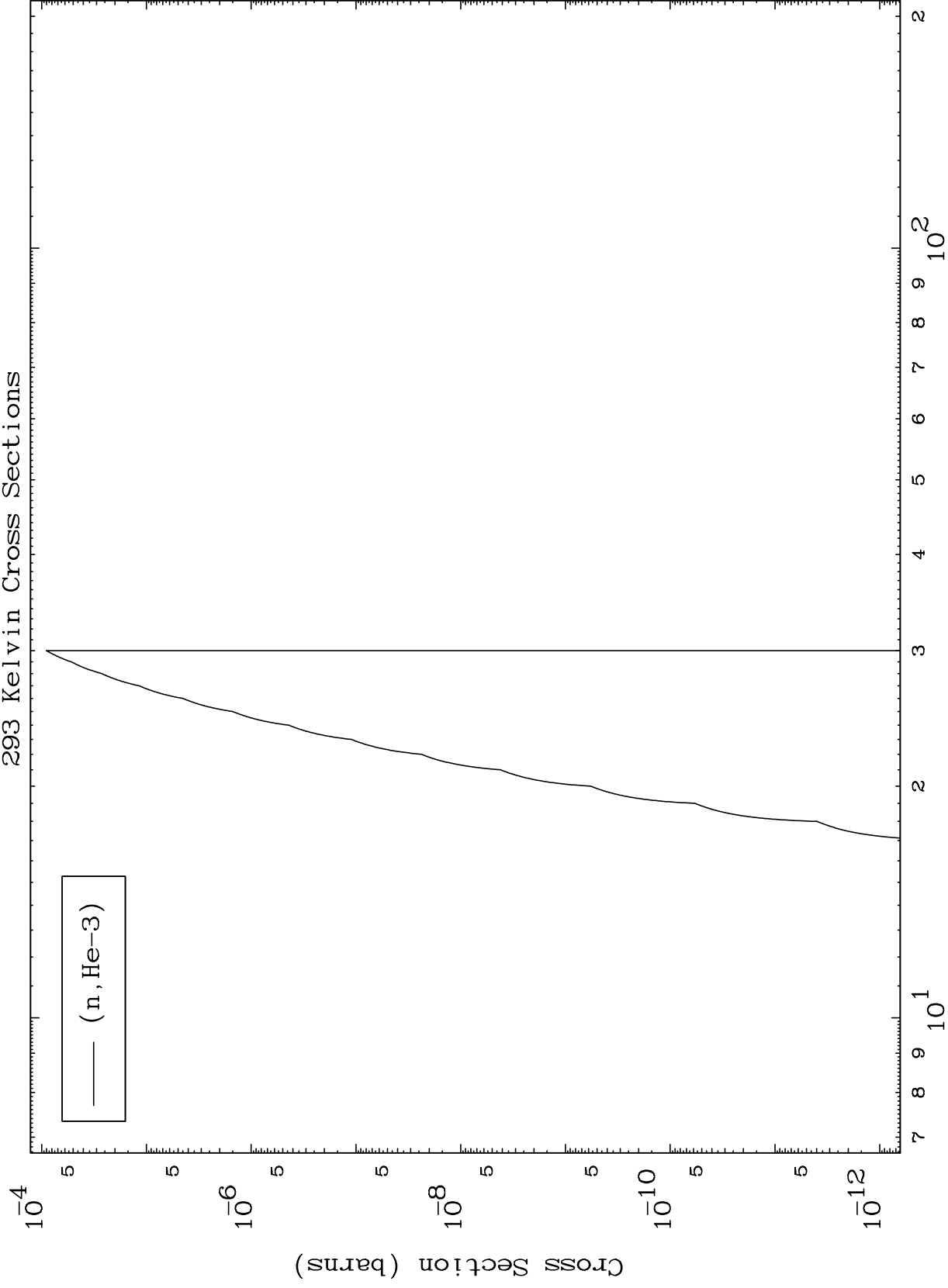
Incident Energy (MeV)

74-W -185

MAT 7440

(n,He3) Levels  
293 Kelvin Cross Sections

74-W -185



15

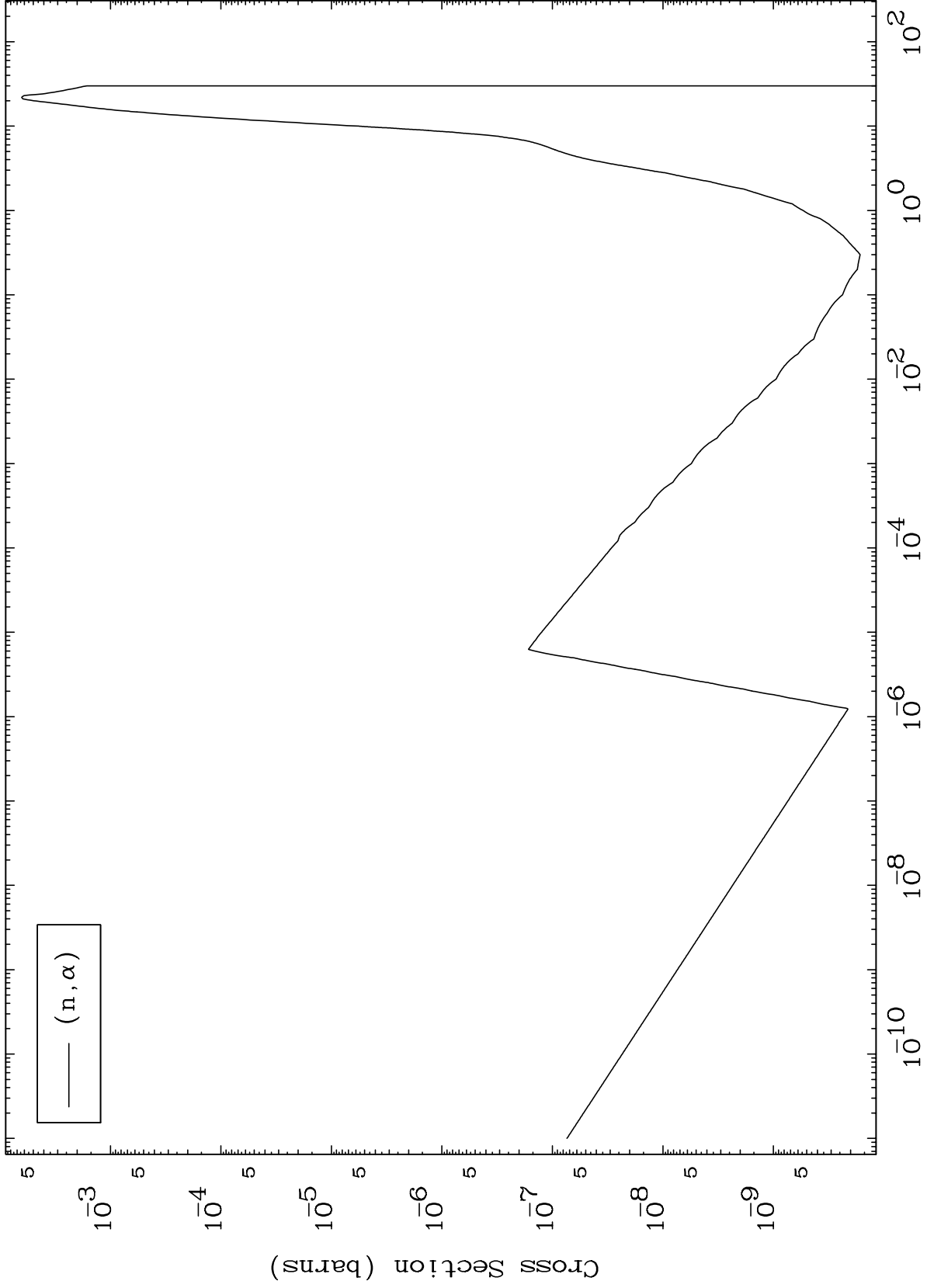
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



16

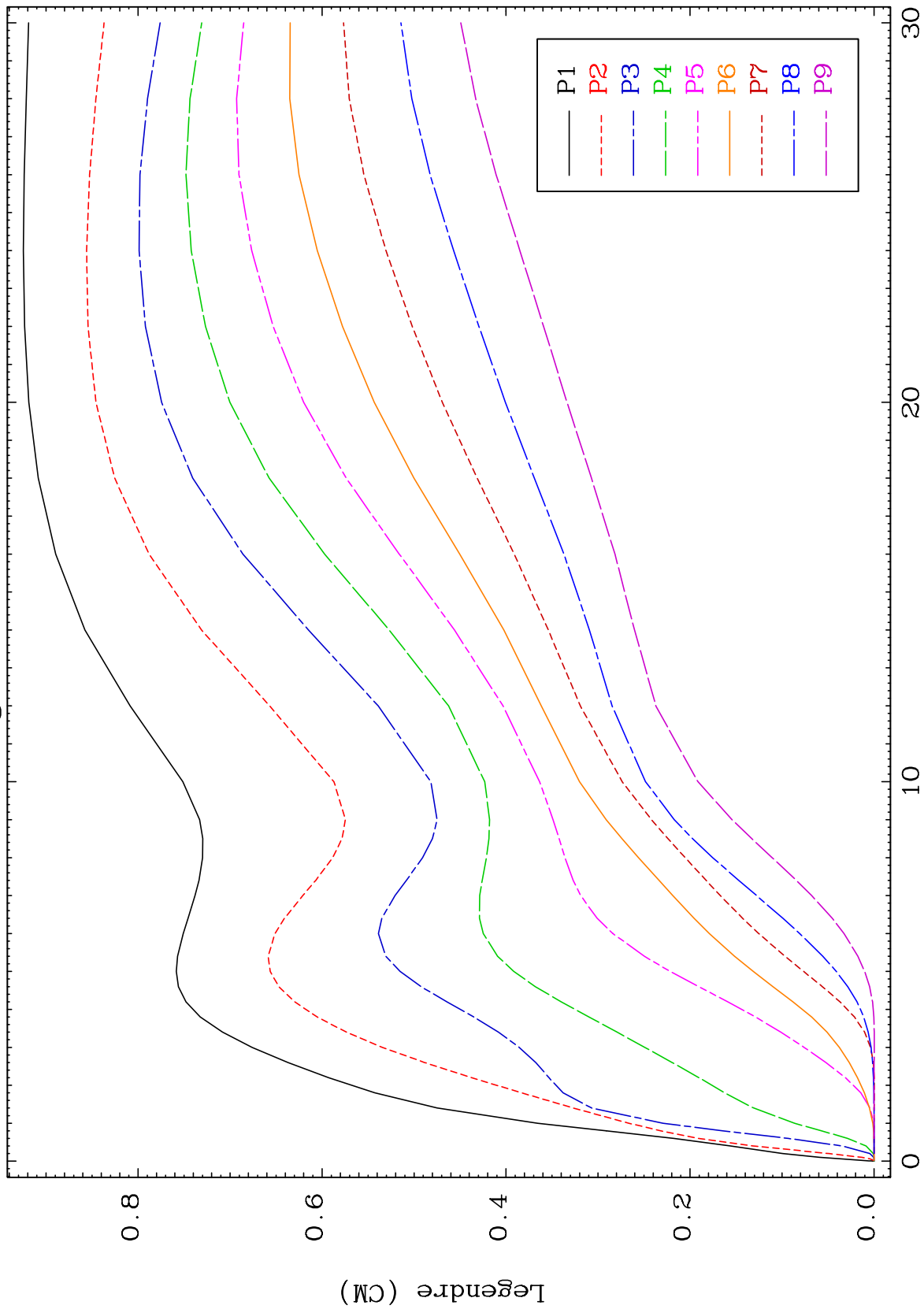
Incident Energy (MeV)

74-W -185

MAT 7440

Elastic Legendre Coefficients

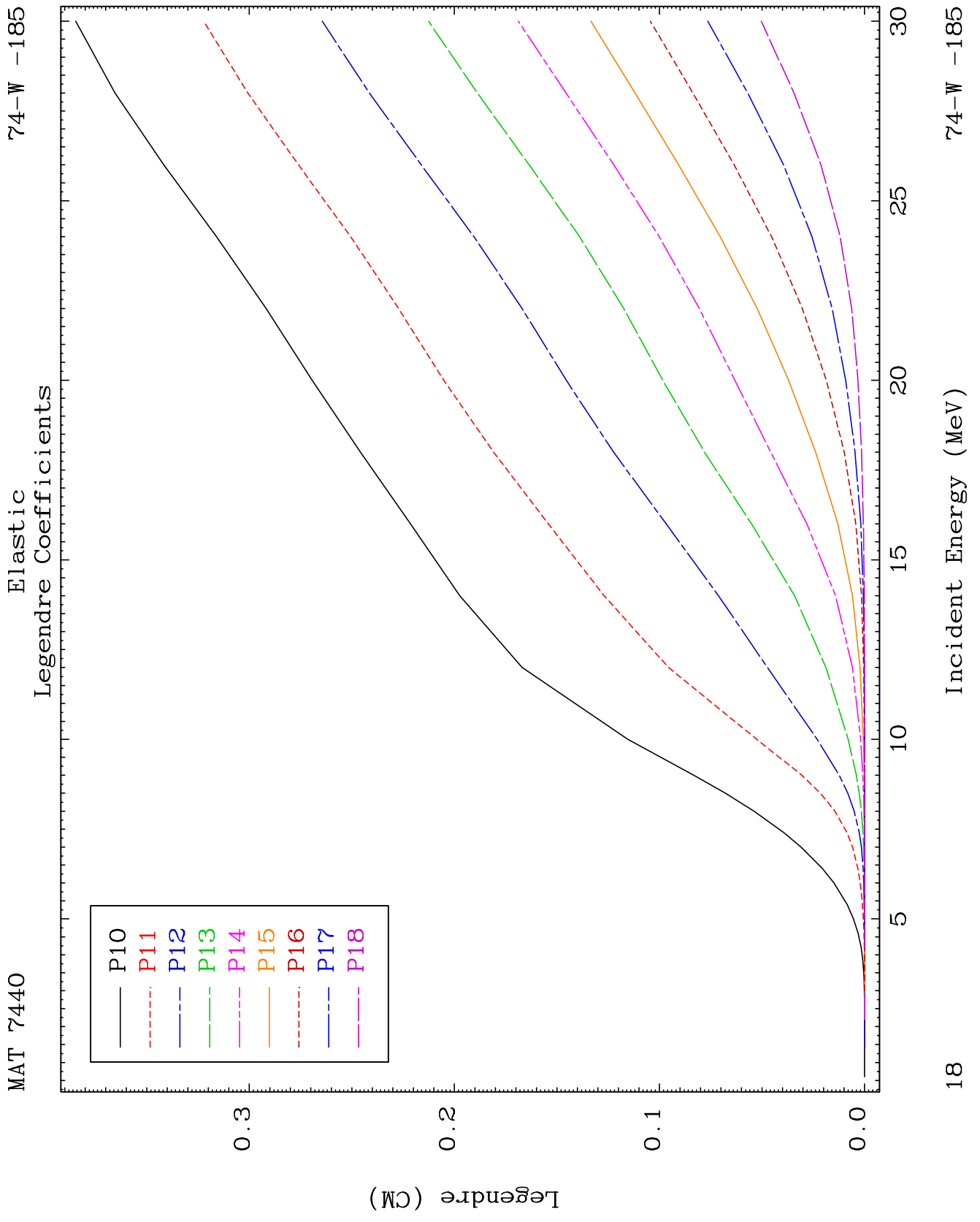
74-W -185



17

Incident Energy (MeV)

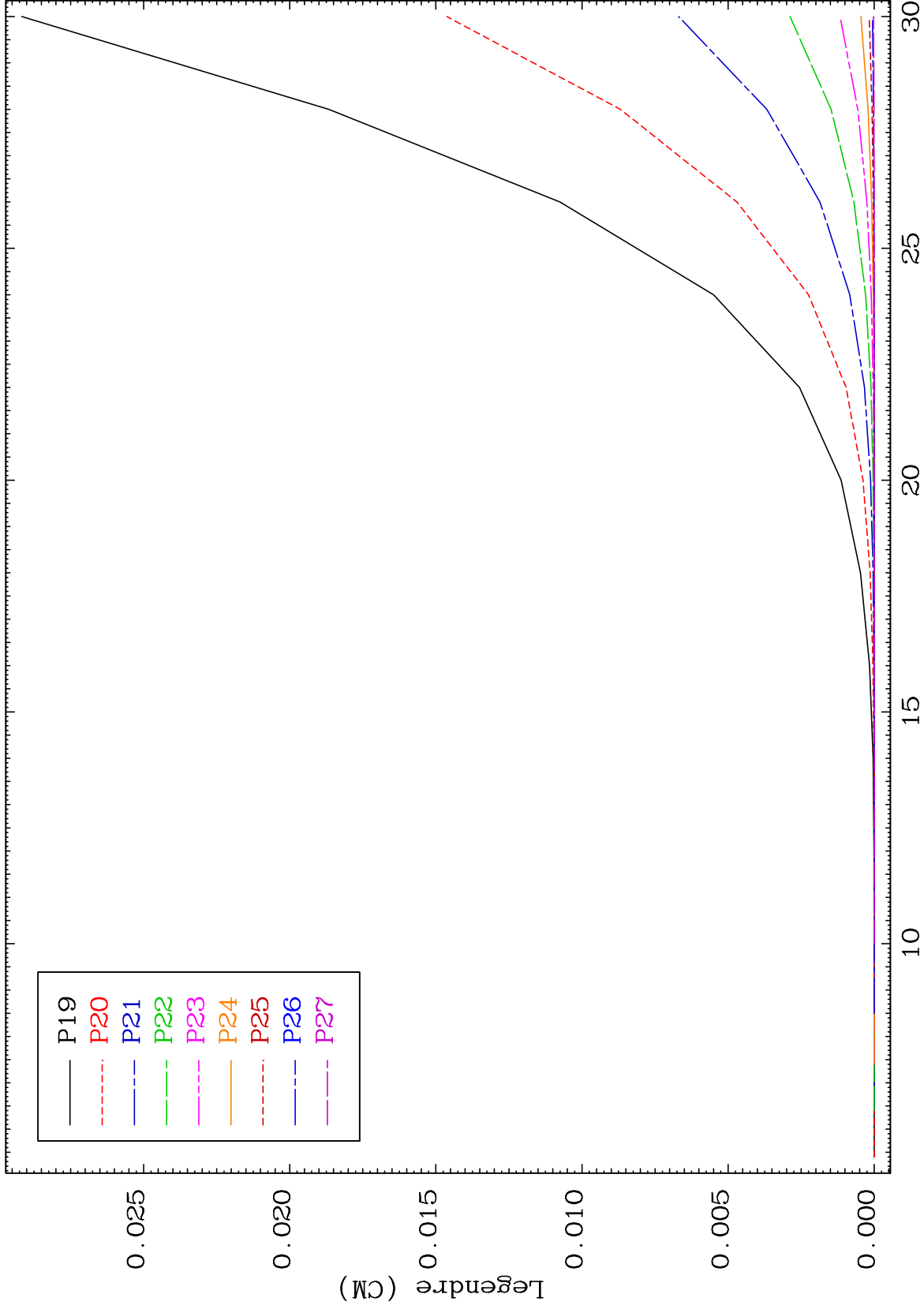
74-W -185



MAT 7440

### Elastic Legendre Coefficients

74-W -185



19

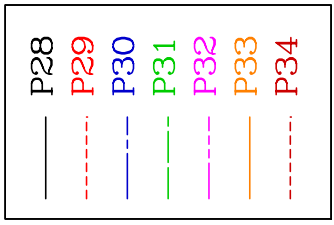
Incident Energy (MeV)

74-W -185

MAT 7440

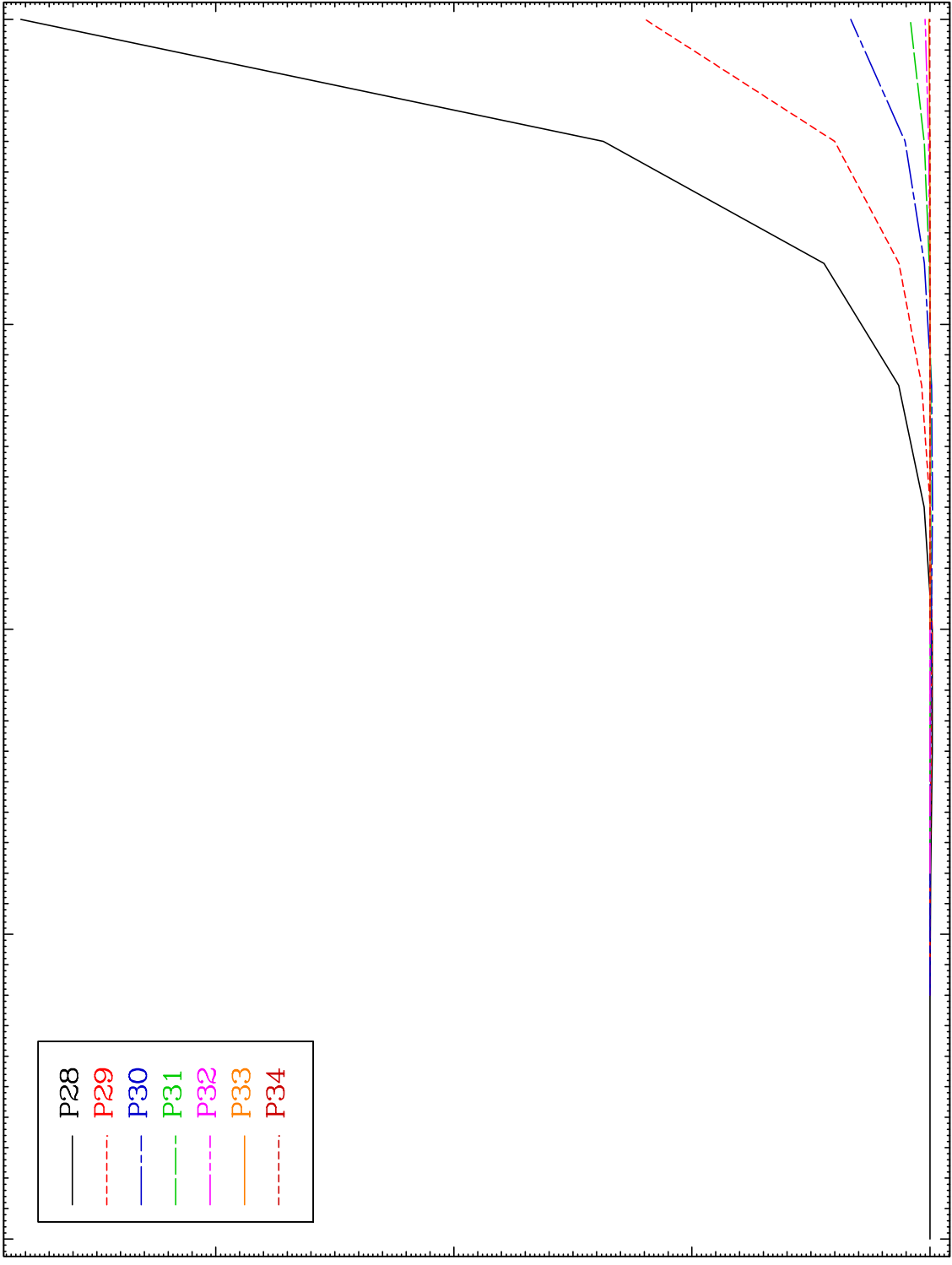
Elastic  
Legendre Coefficients

74-W -185



$\times 10^{-6}$

Legendre (CM)



30

25

20

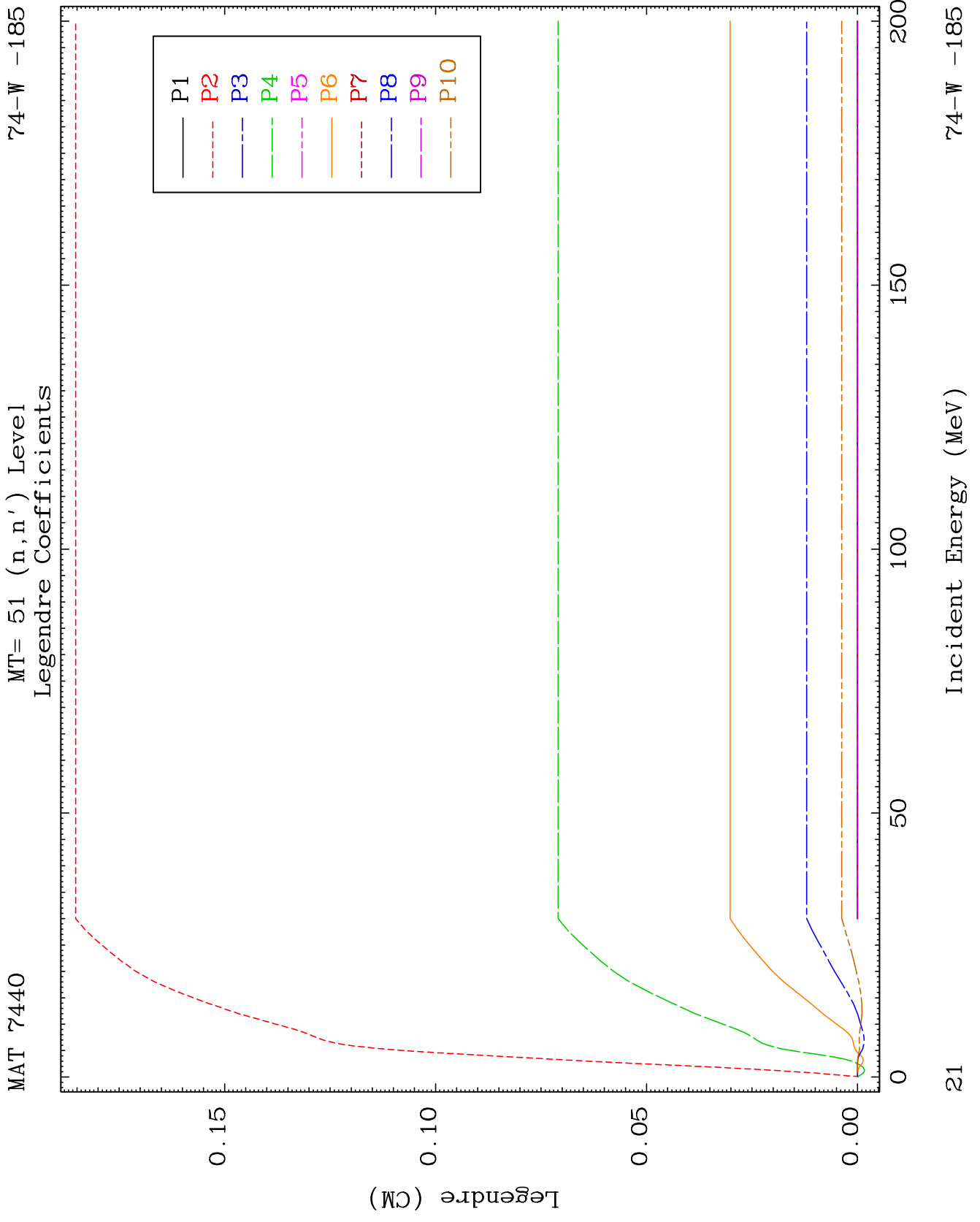
15

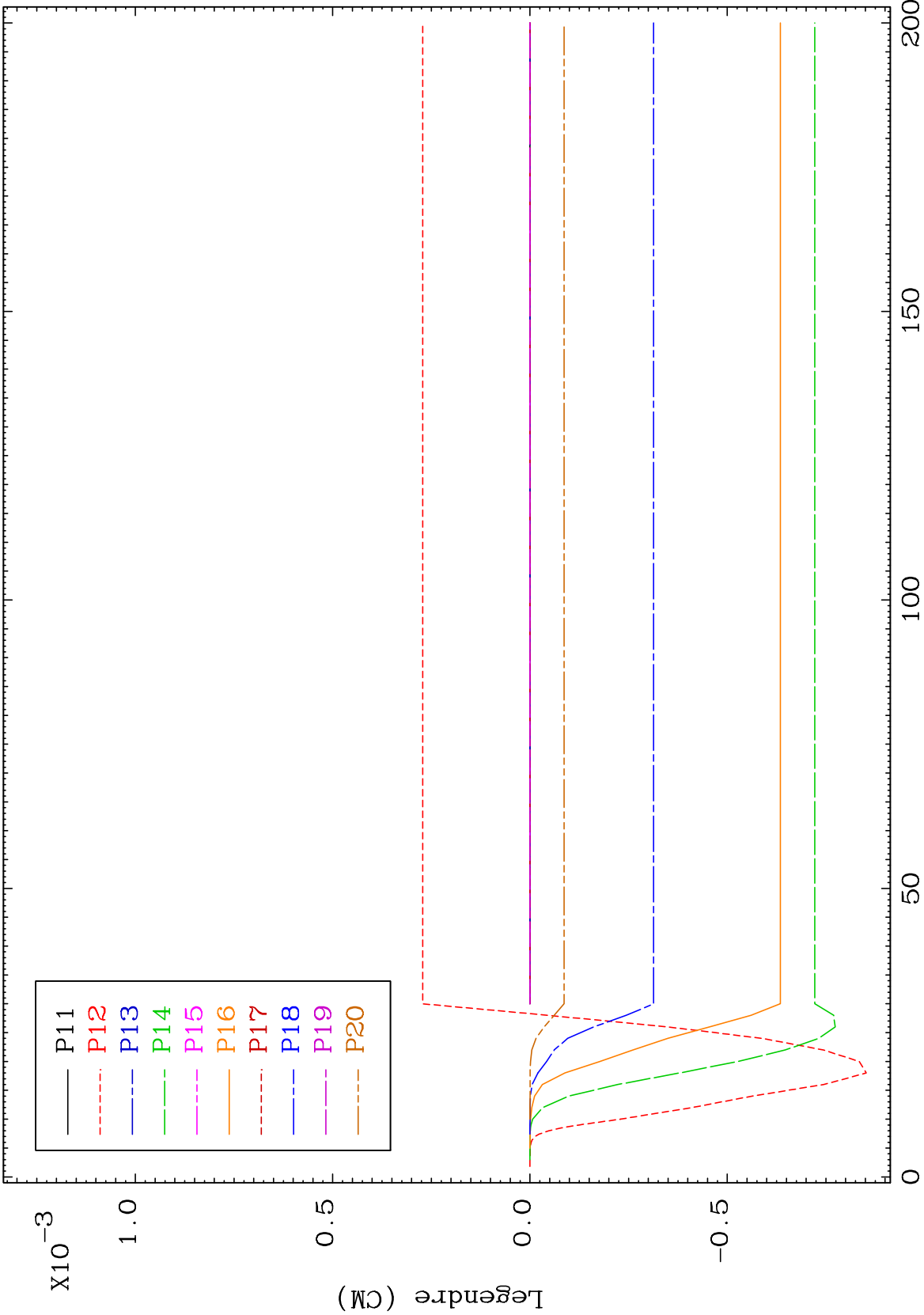
10

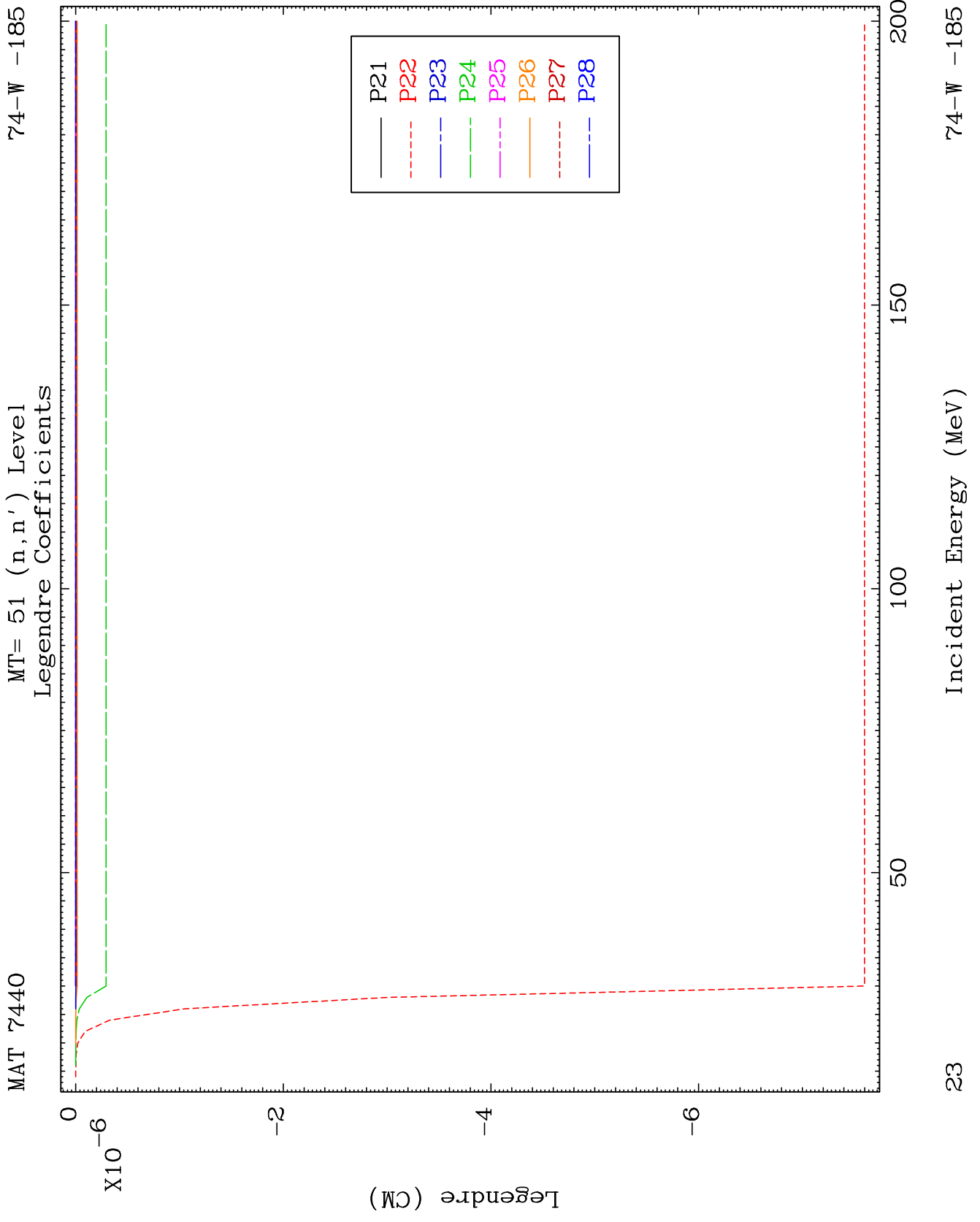
Incident Energy (MeV)

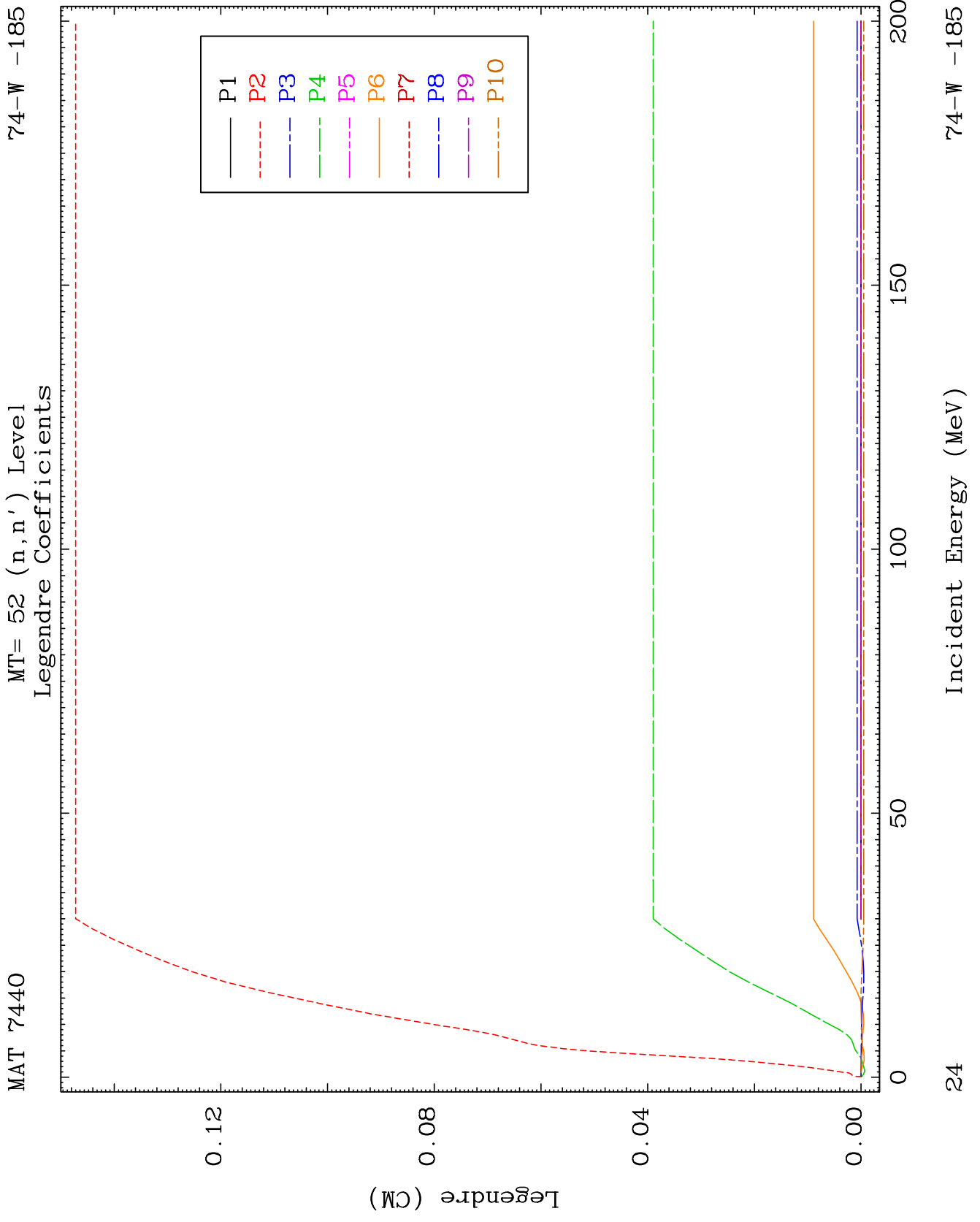
74-W -185

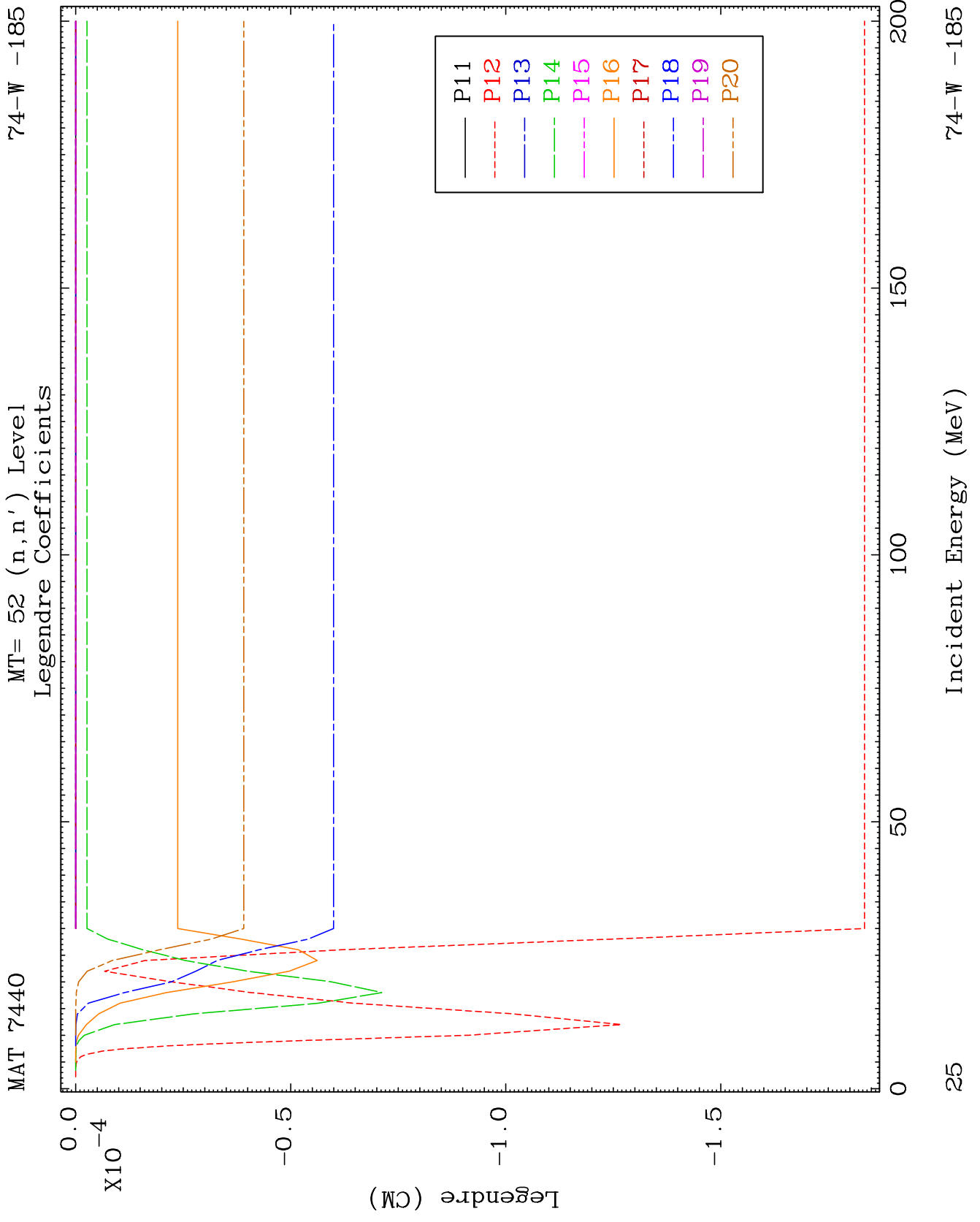
20

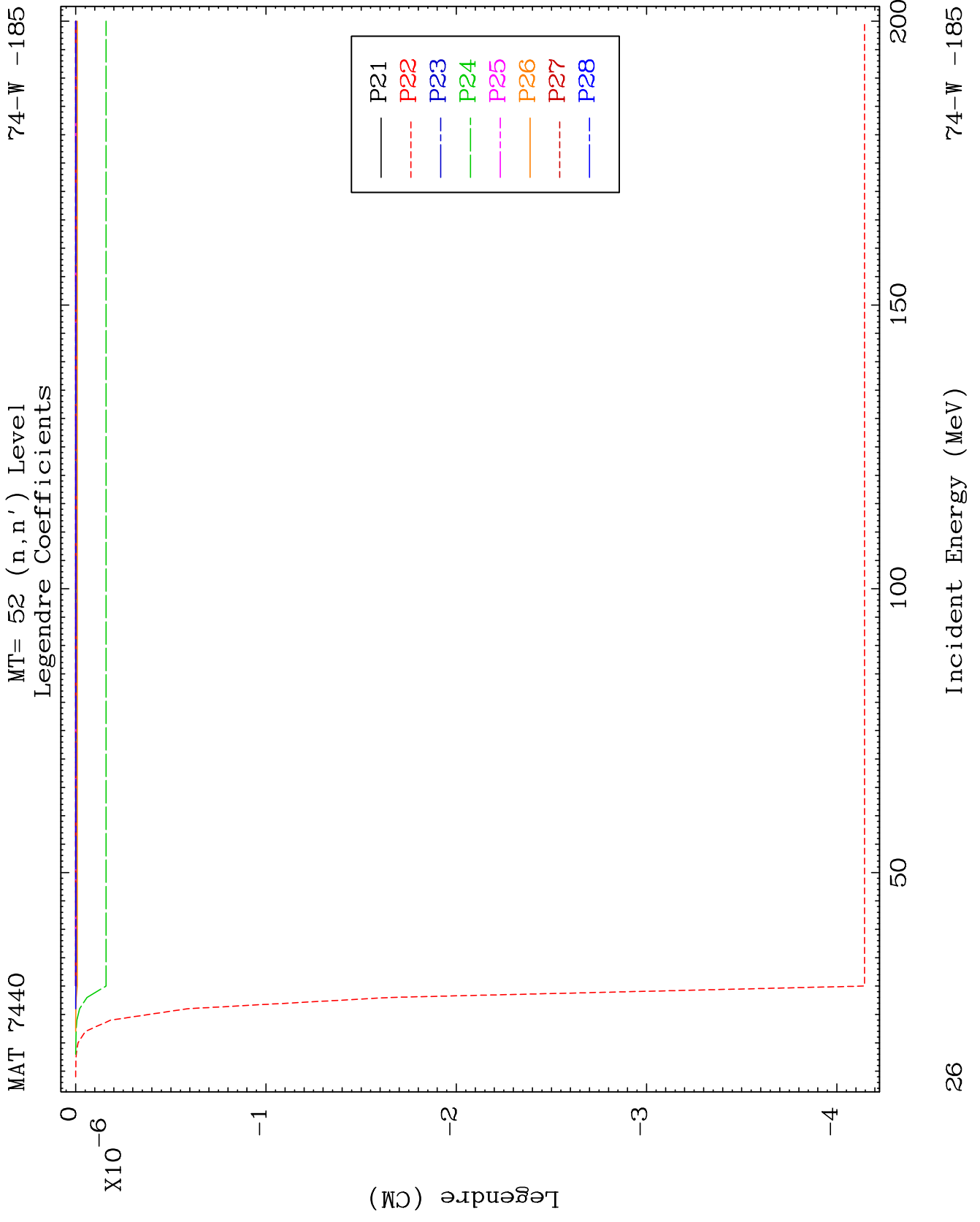


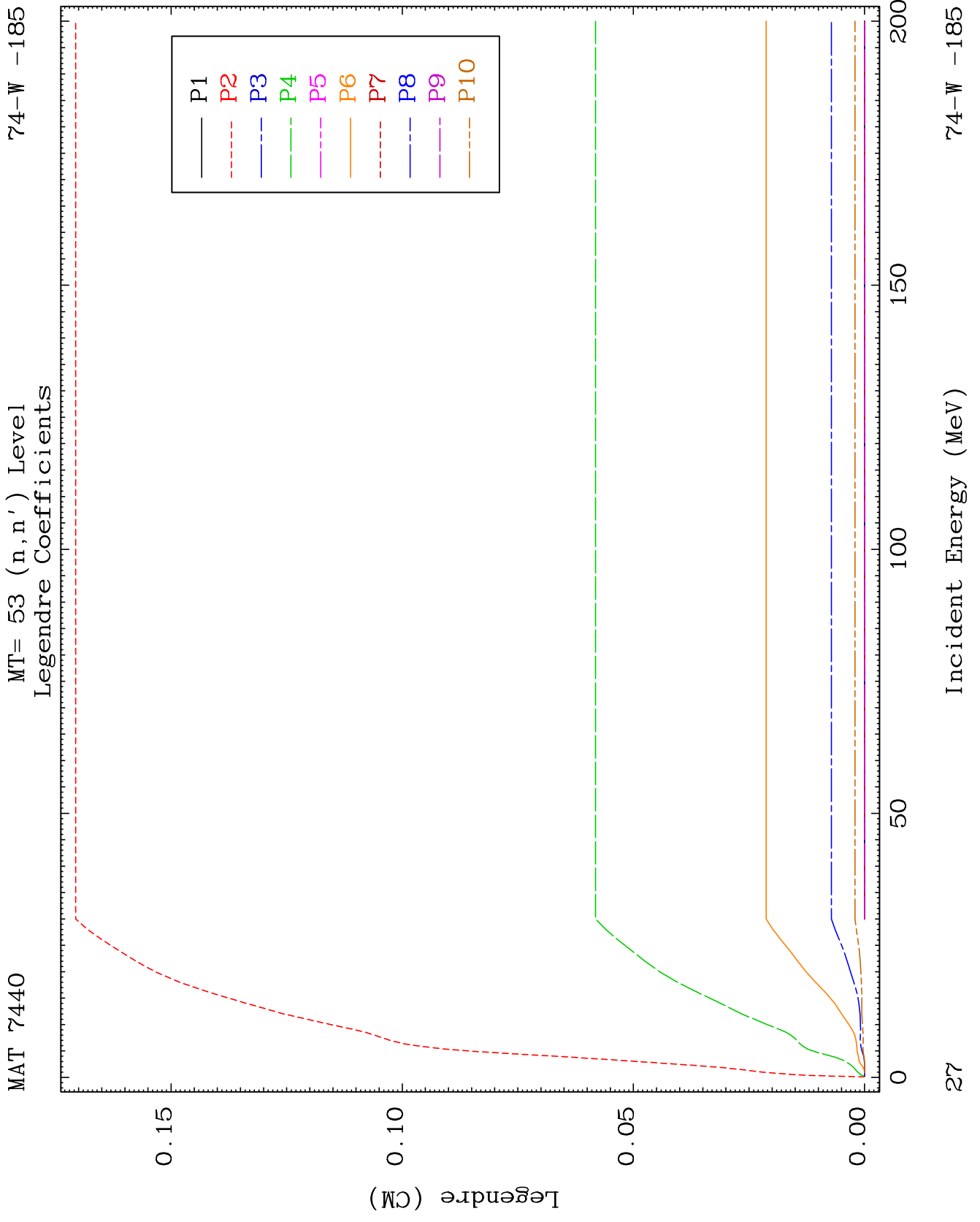








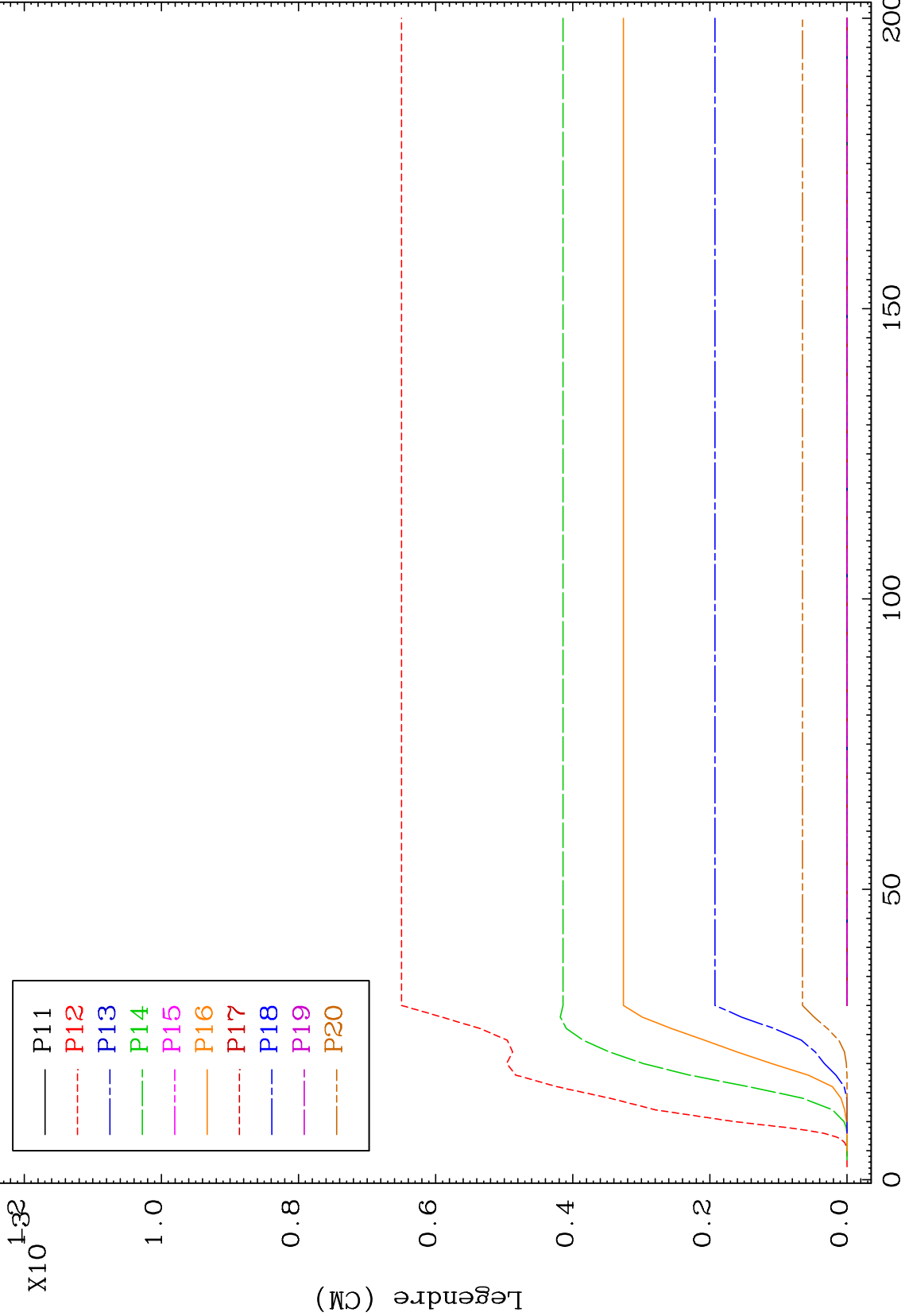




MAT 7440

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

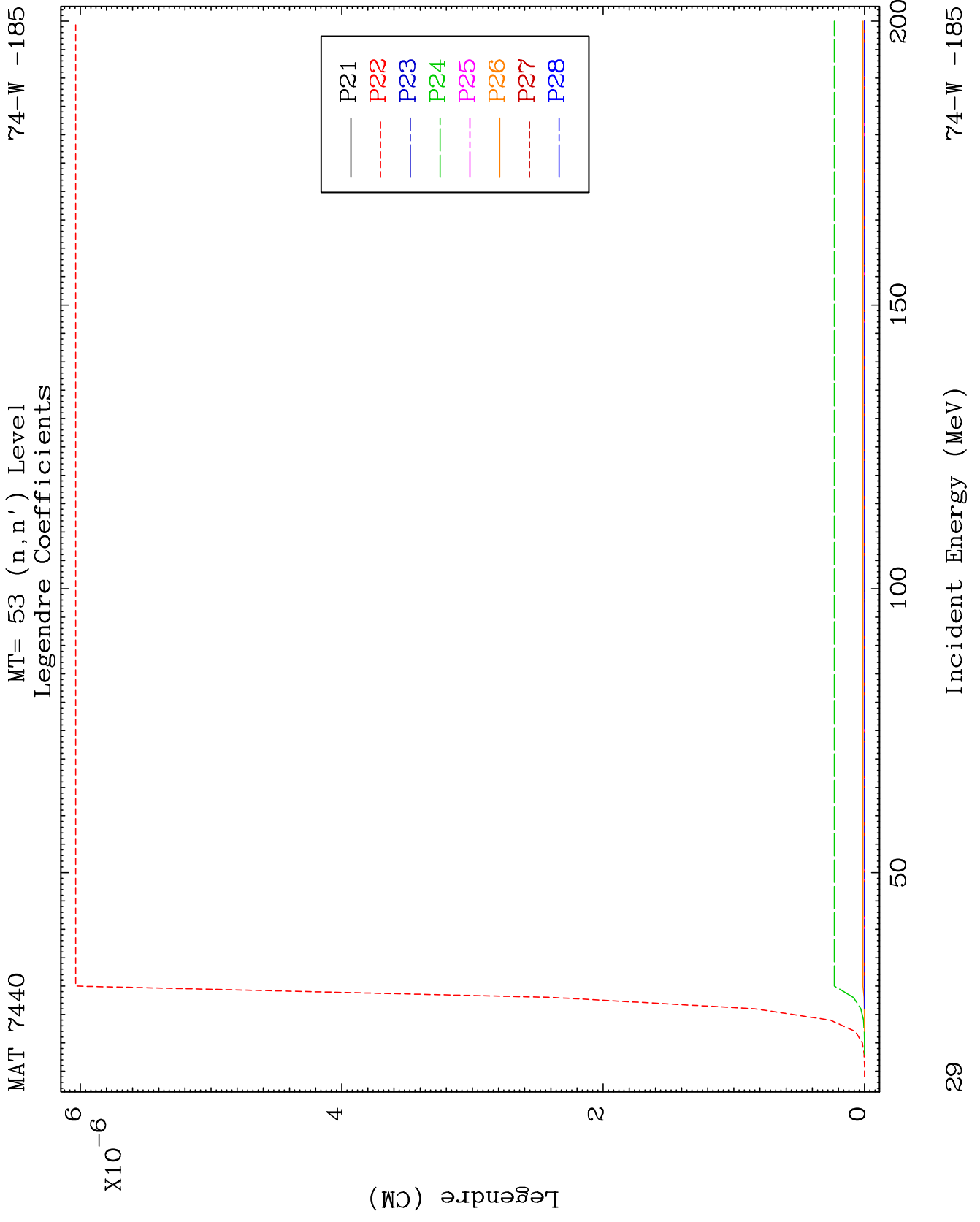
74-W -185

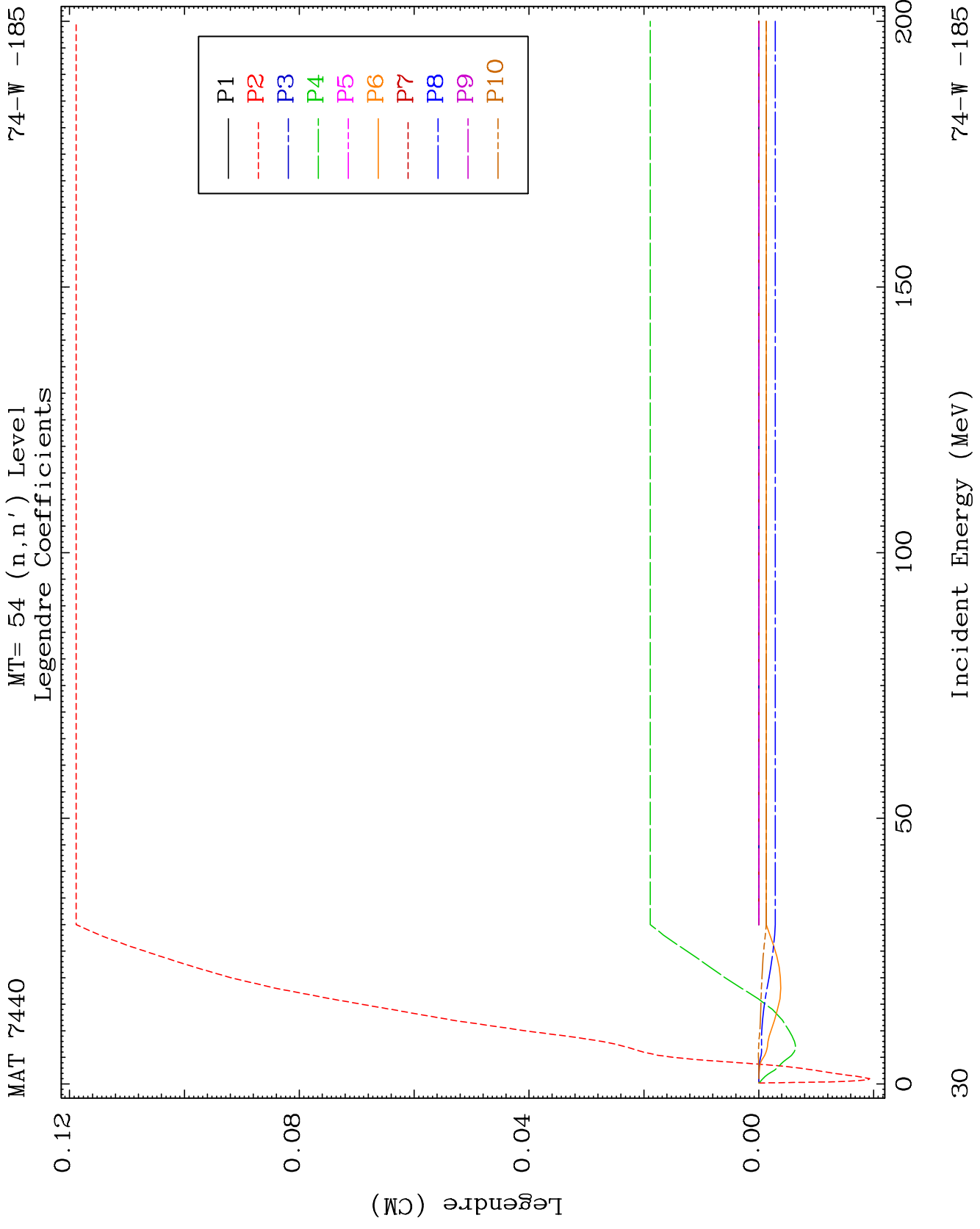


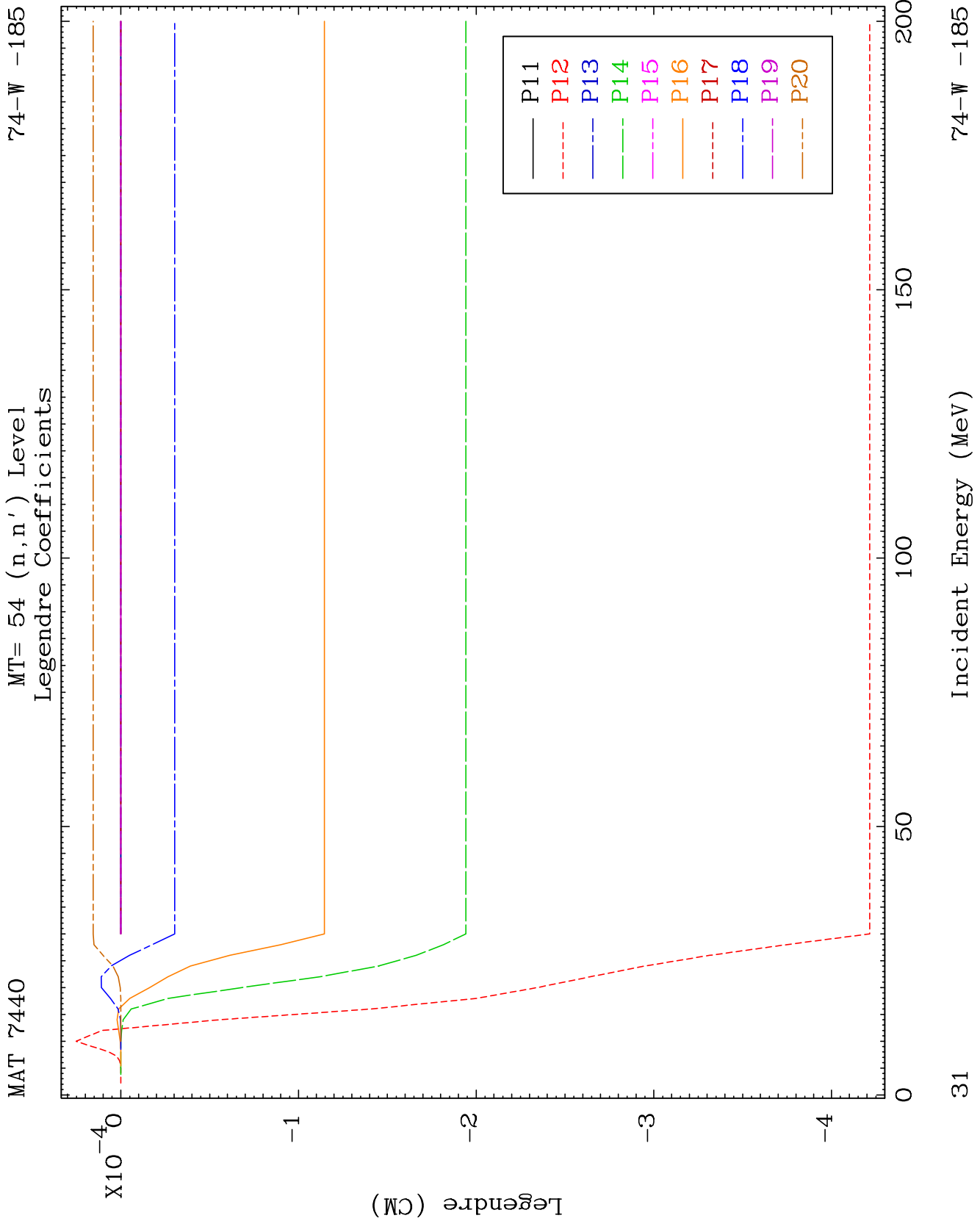
28

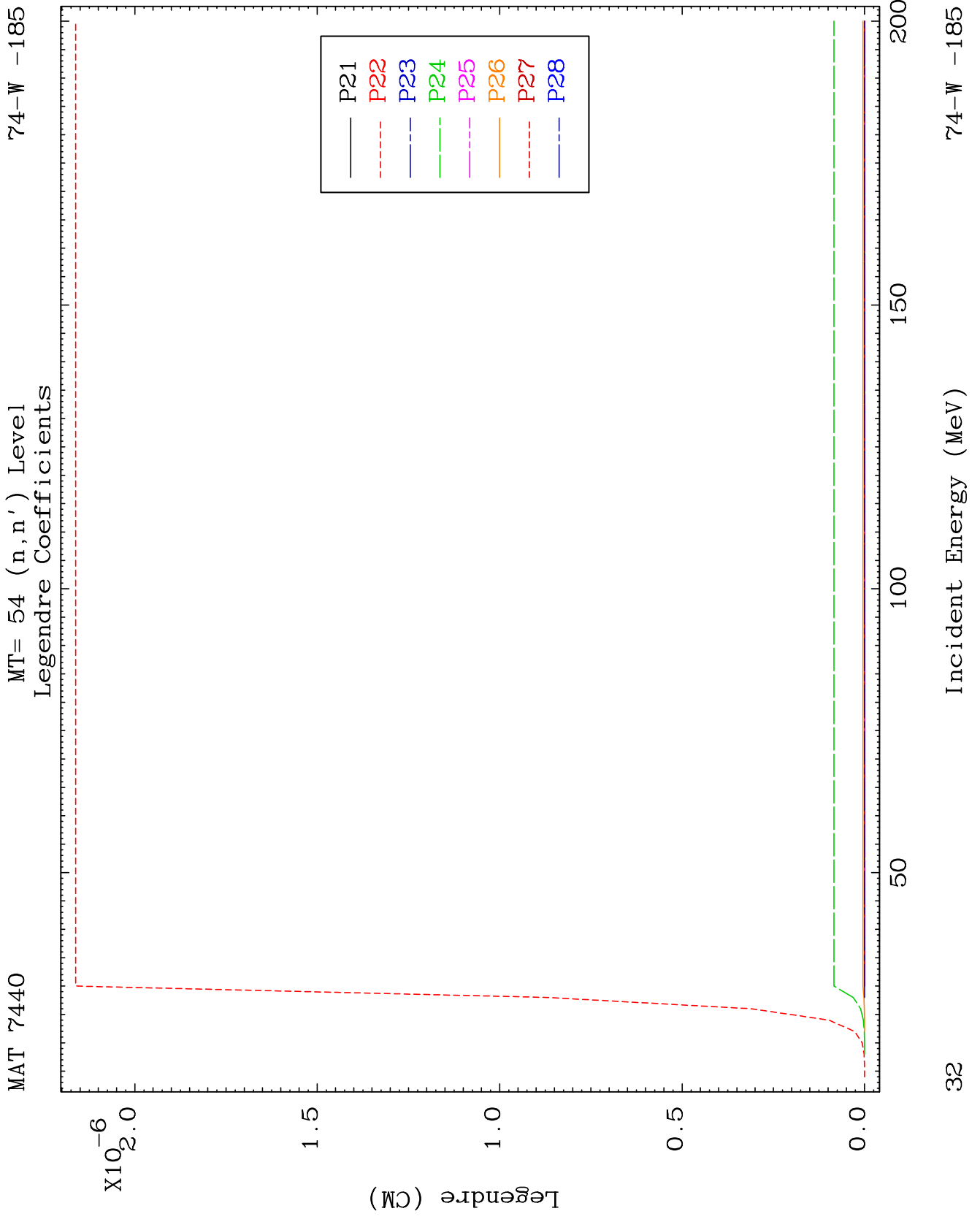
Incident Energy (MeV)

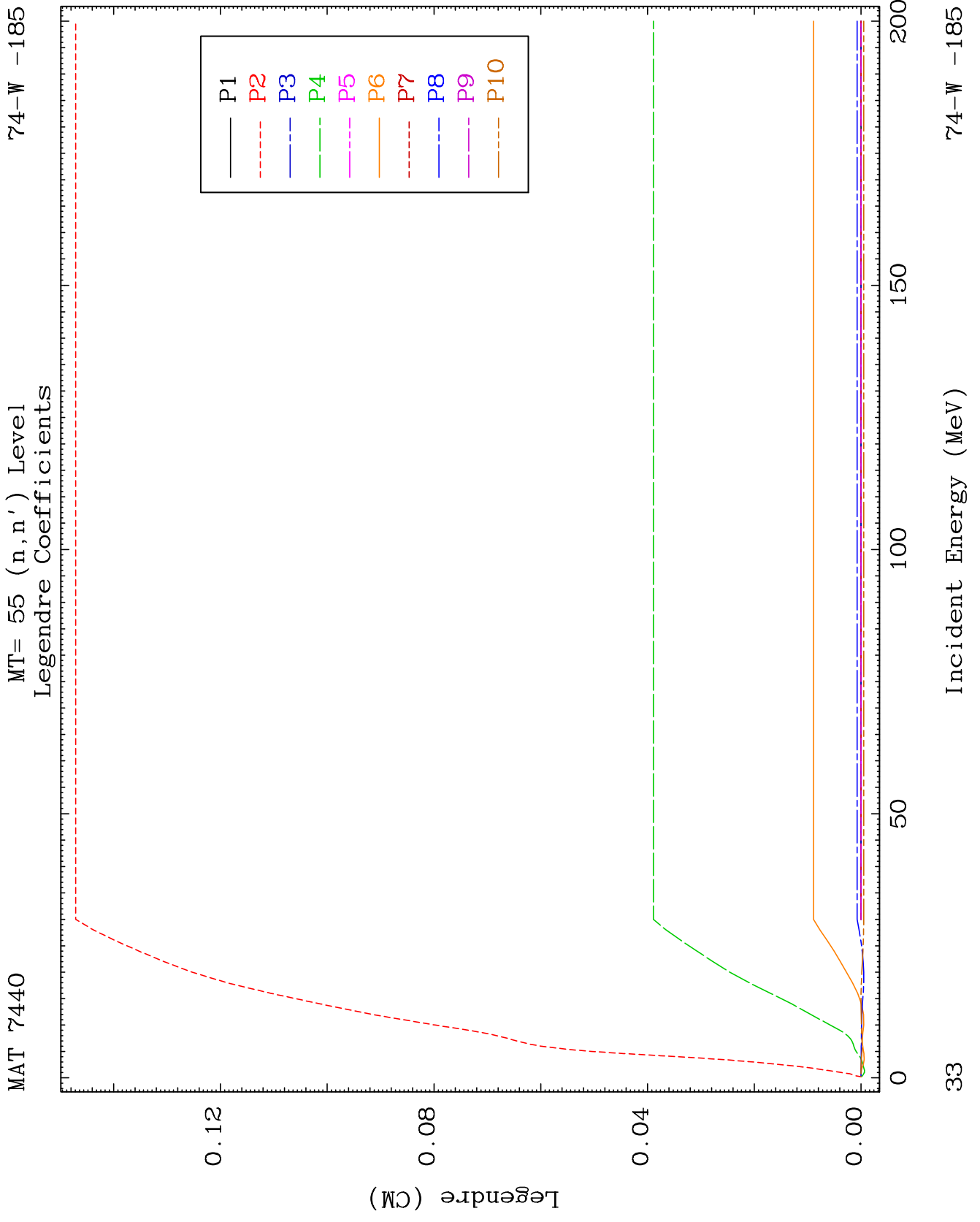
74-W -185

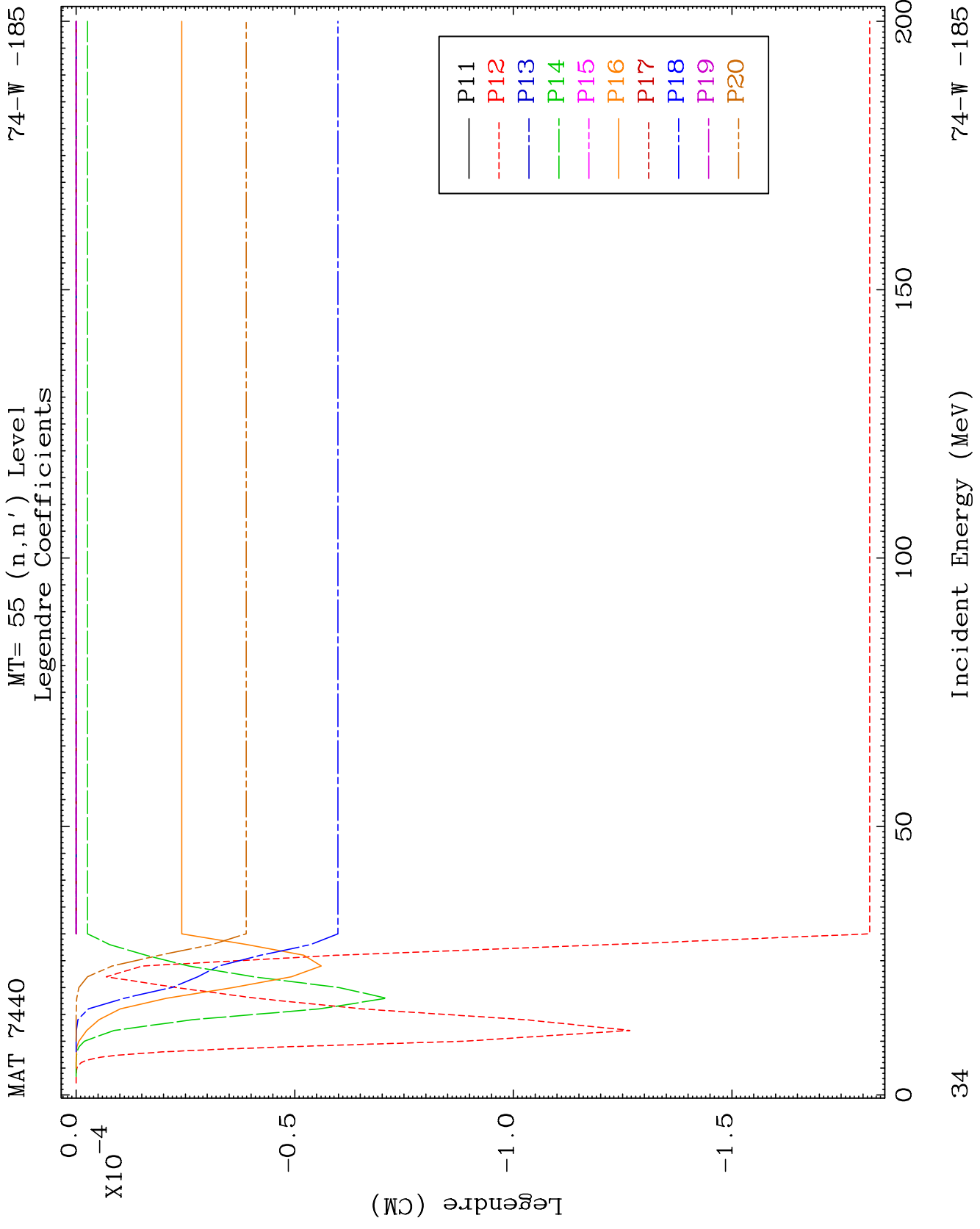


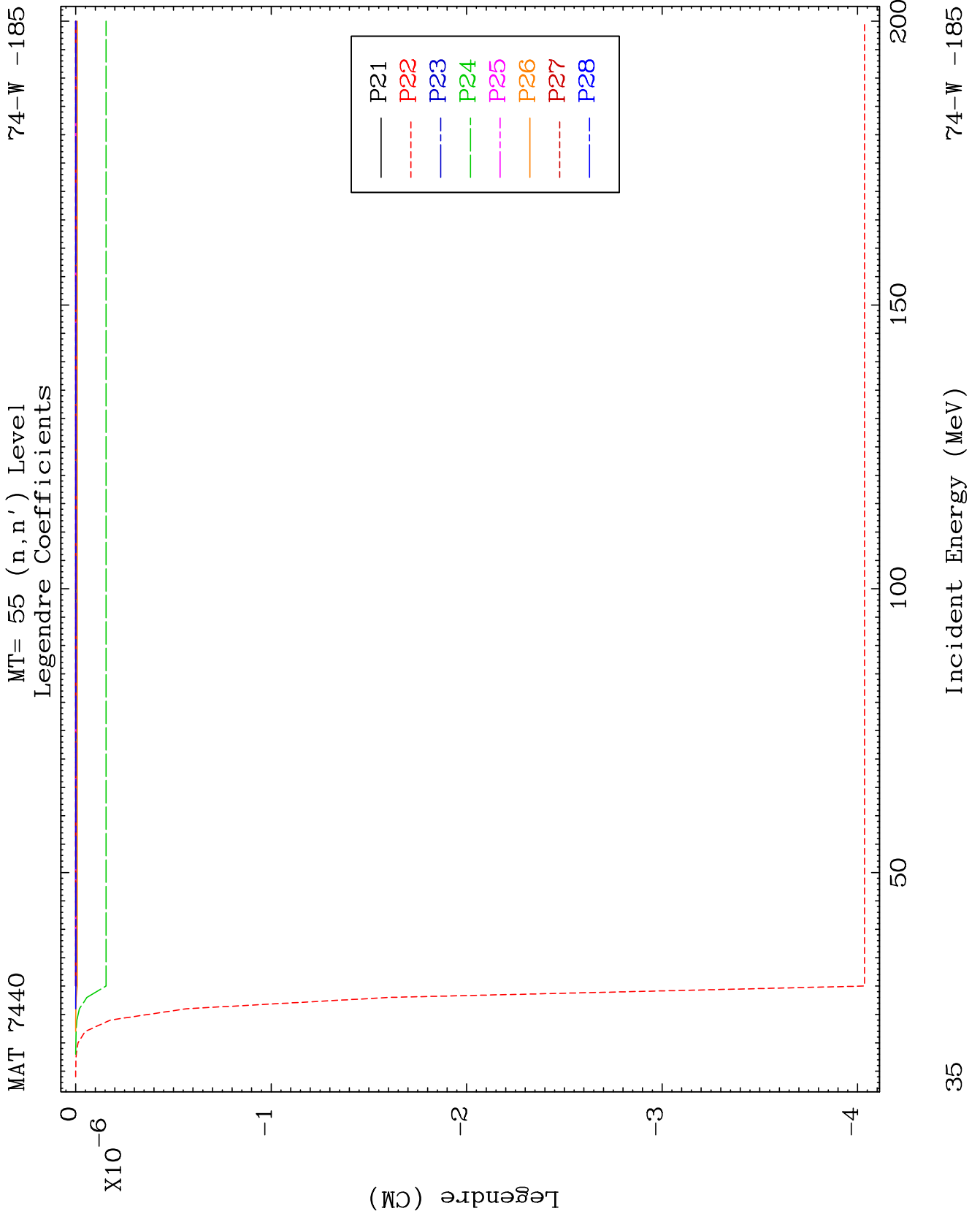








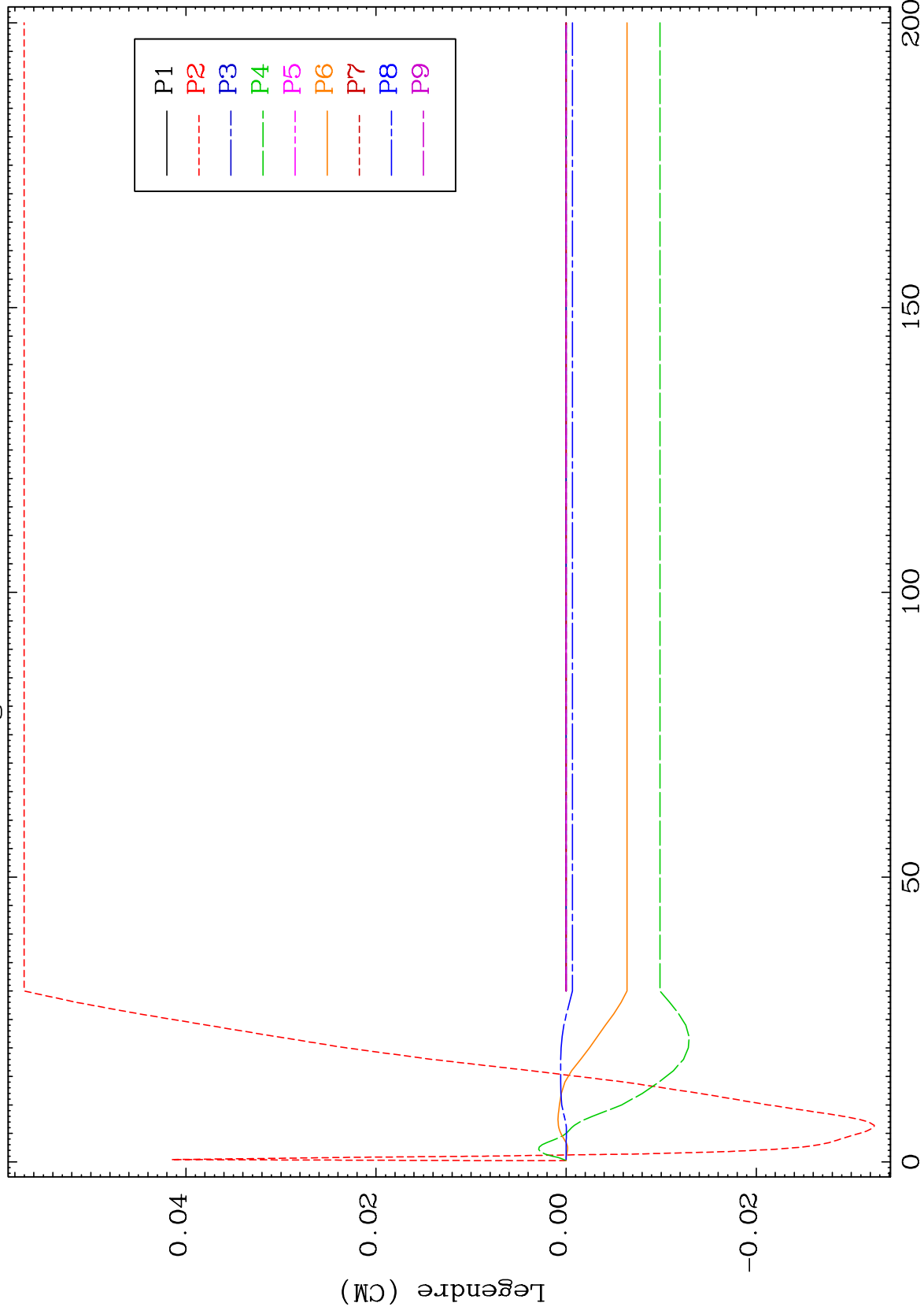




MAT 7440

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

74-W -185



36

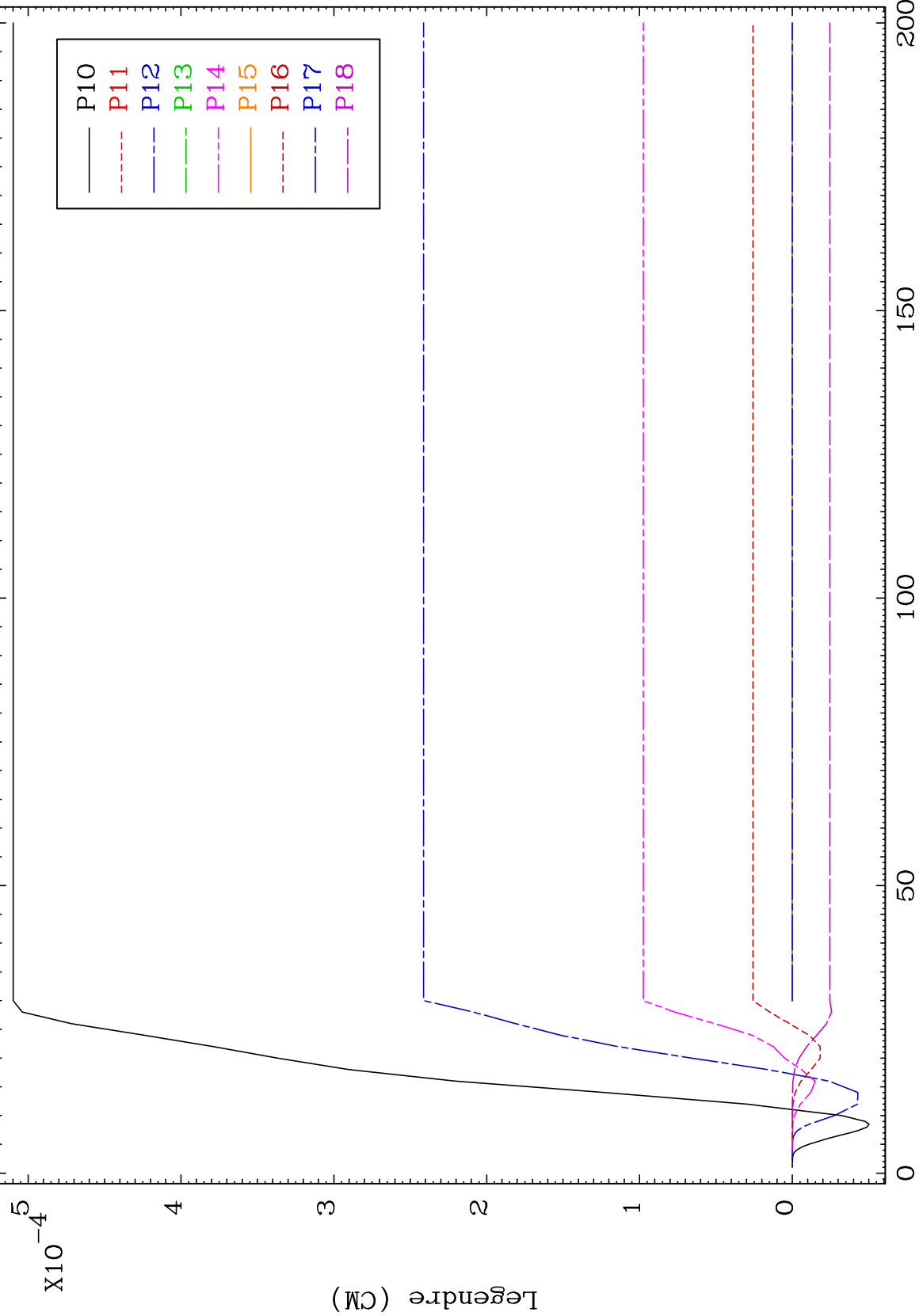
Incident Energy (MeV)

74-W -185

MAT 7440

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

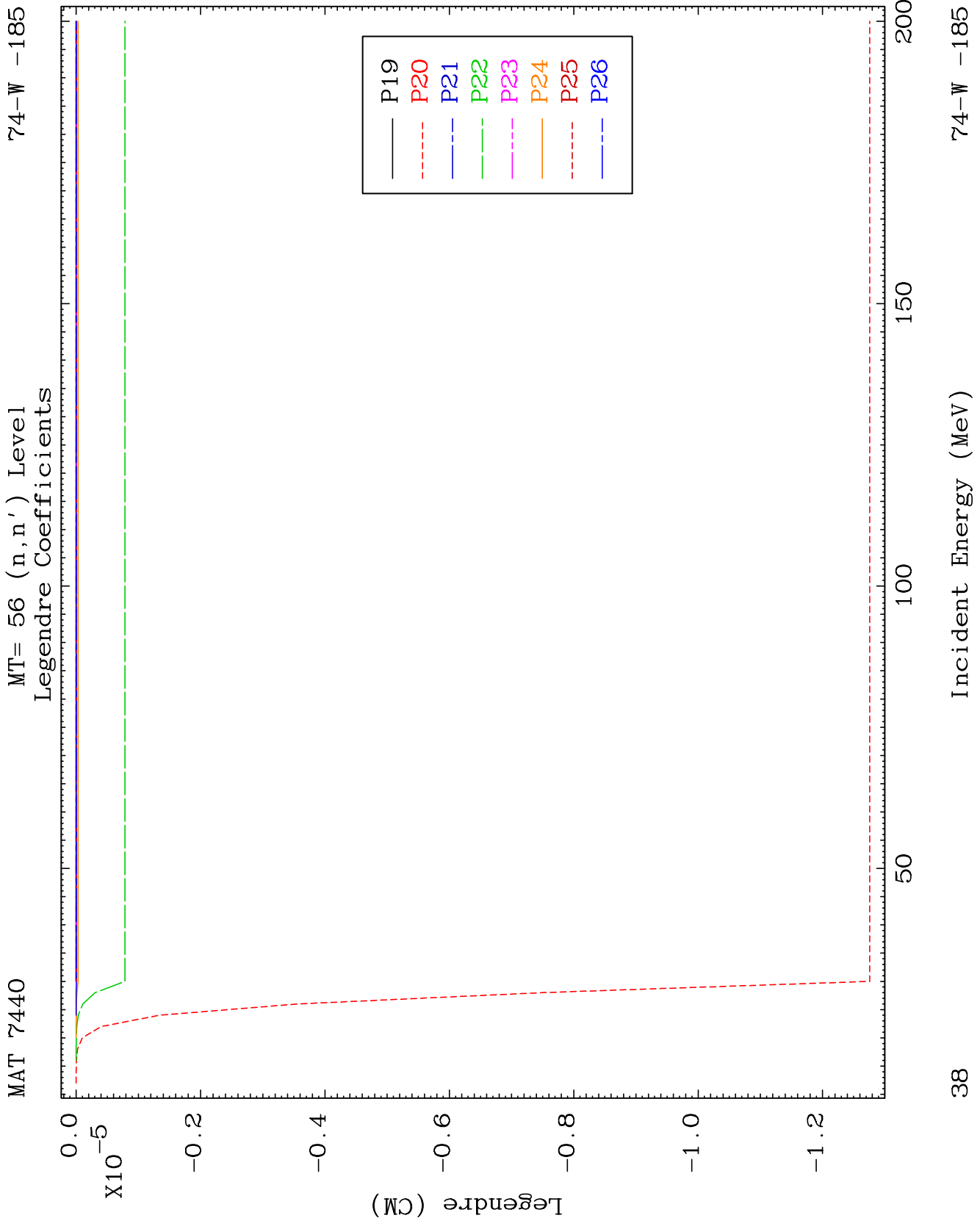
74-W -185



37

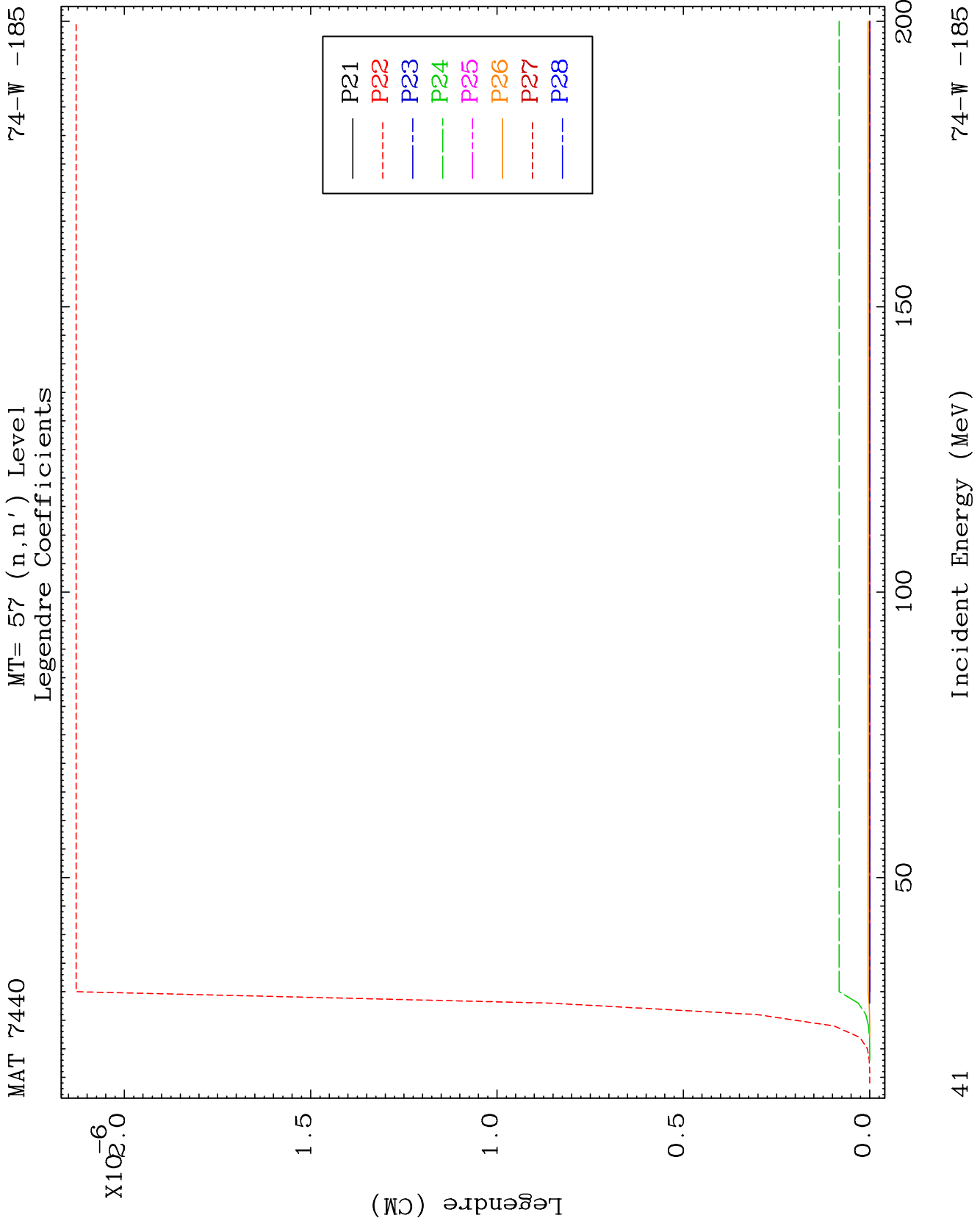
Incident Energy (MeV)

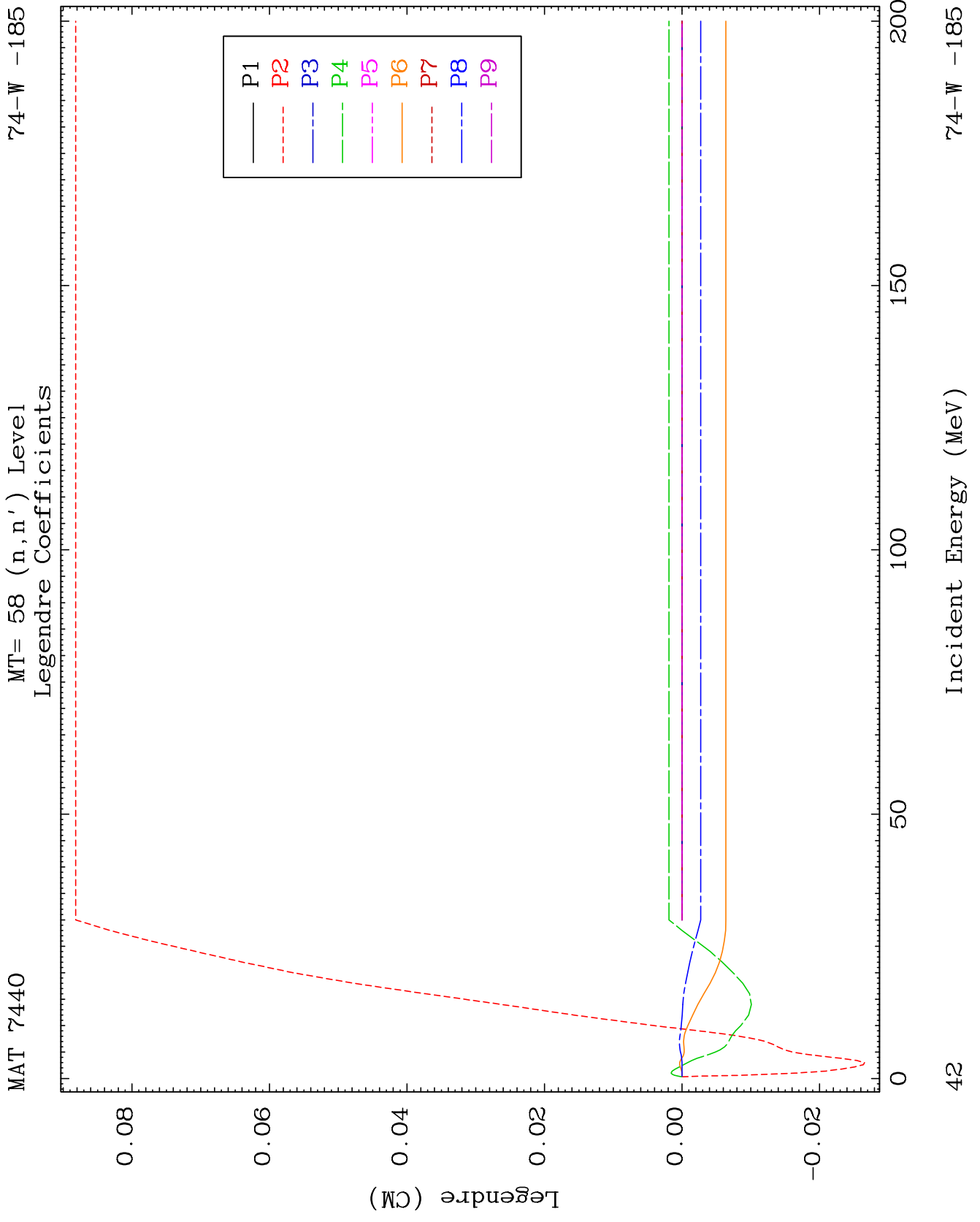
74-W -185







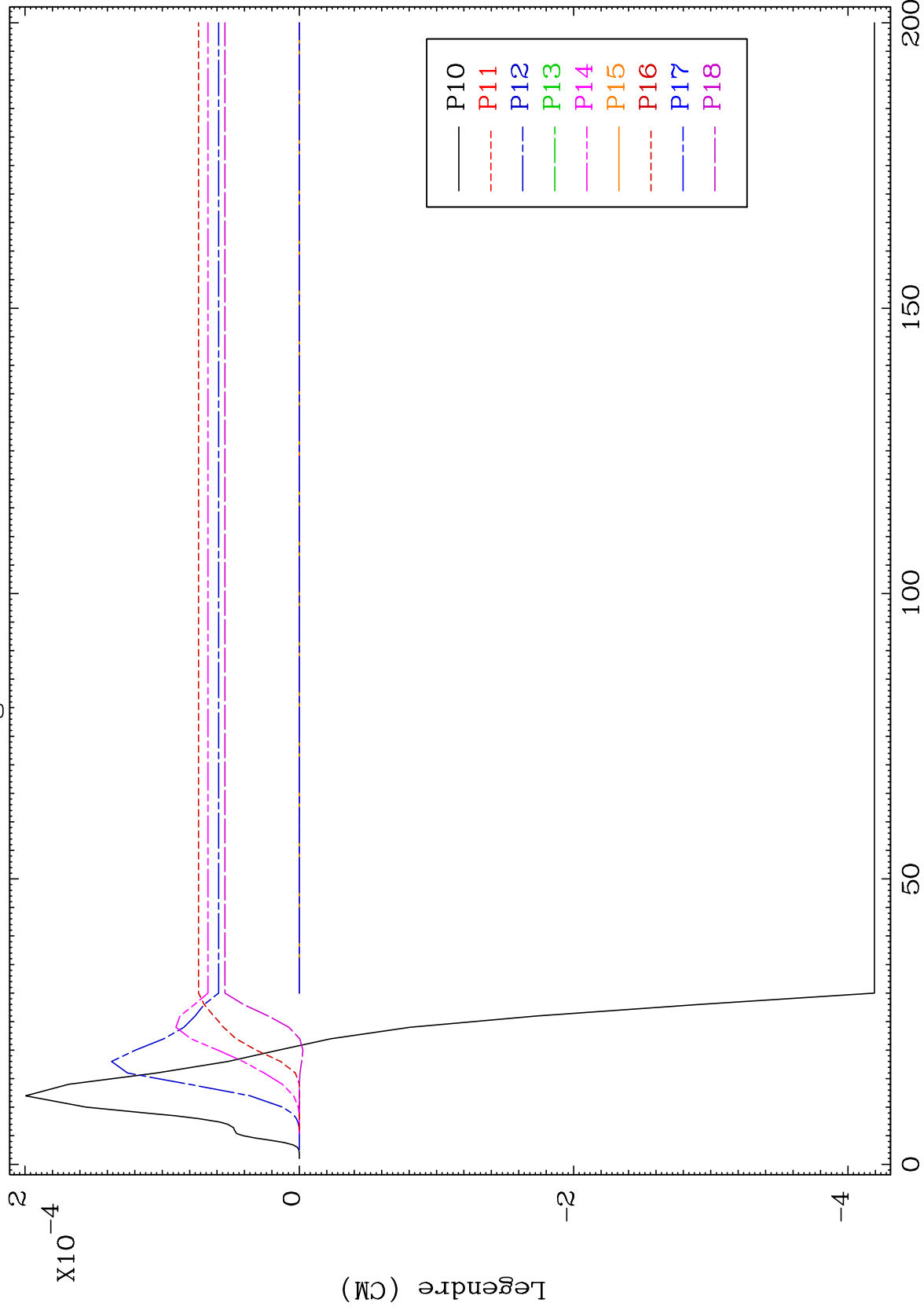




MAT 7440

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

74-W -185



43

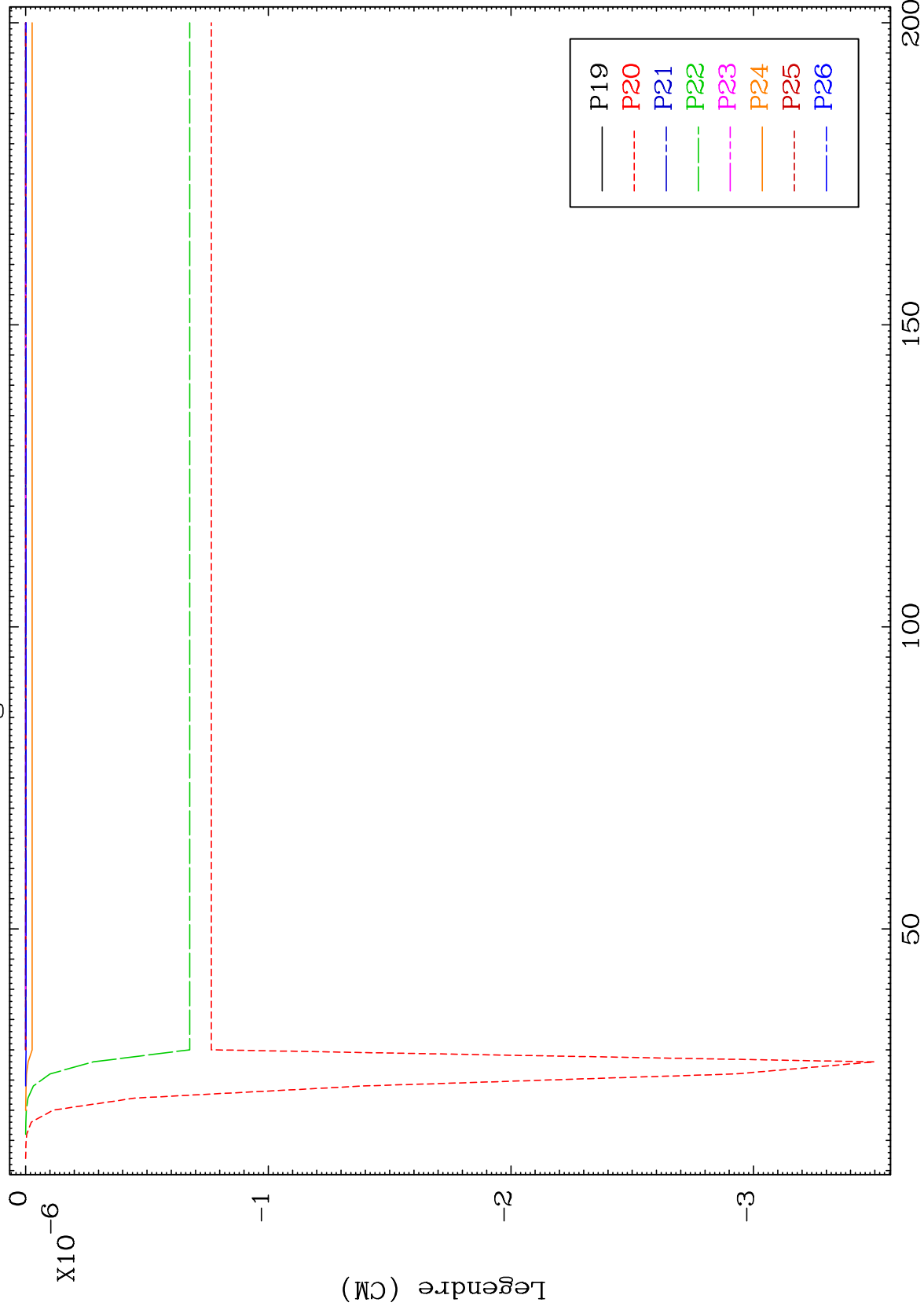
Incident Energy (MeV)

74-W -185

MAT 7440

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

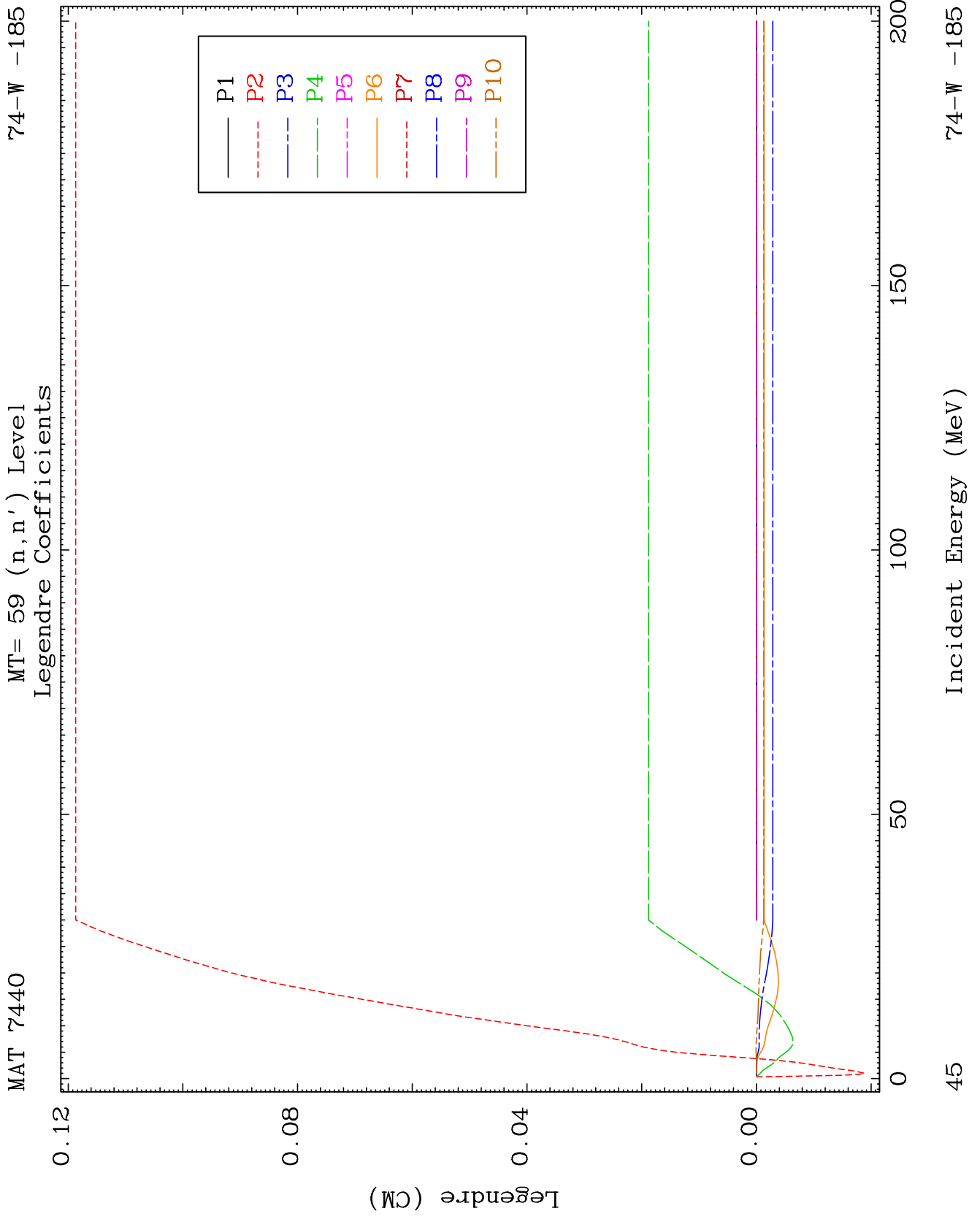
74-W -185

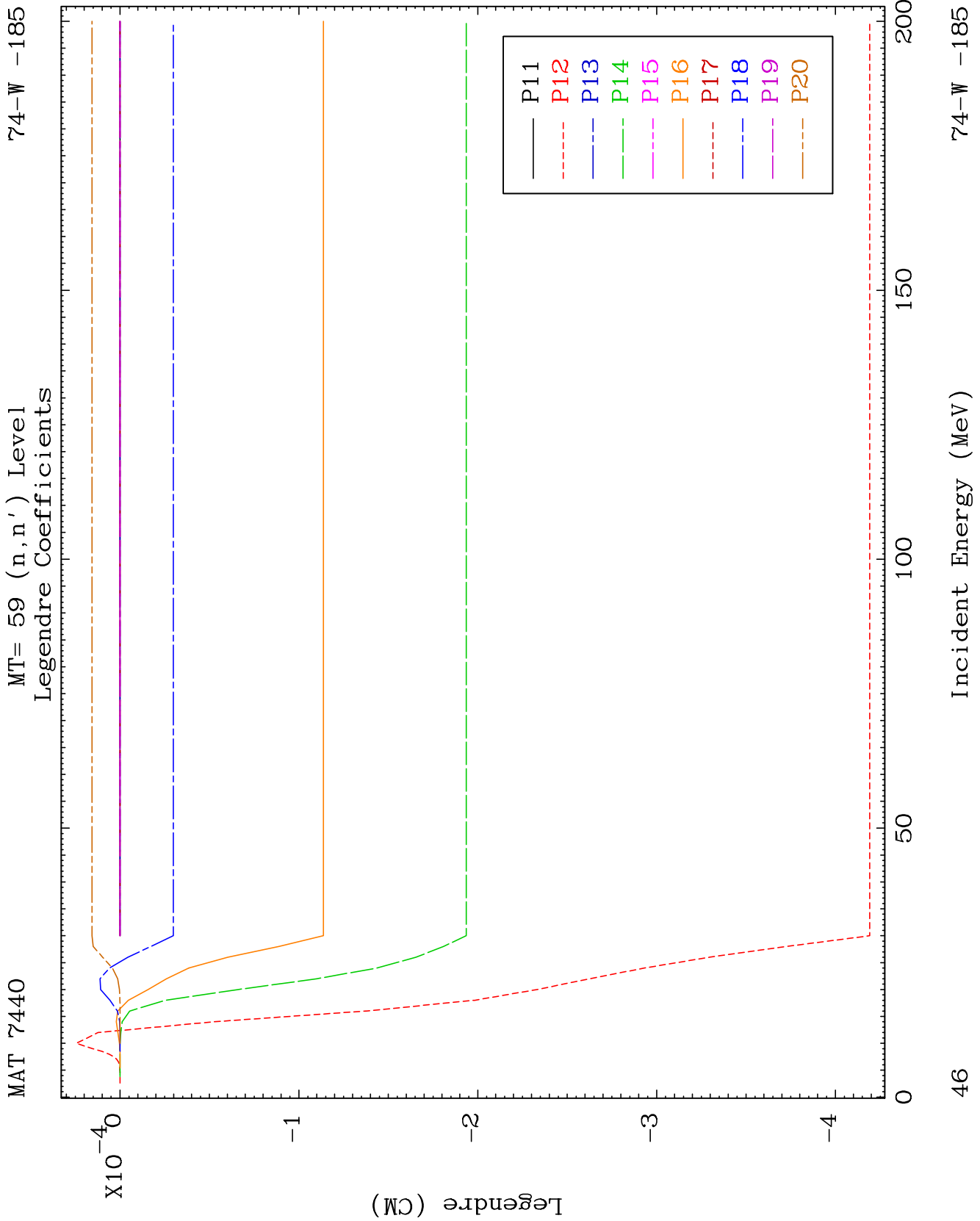


74-W -185

Incident Energy (MeV)

44



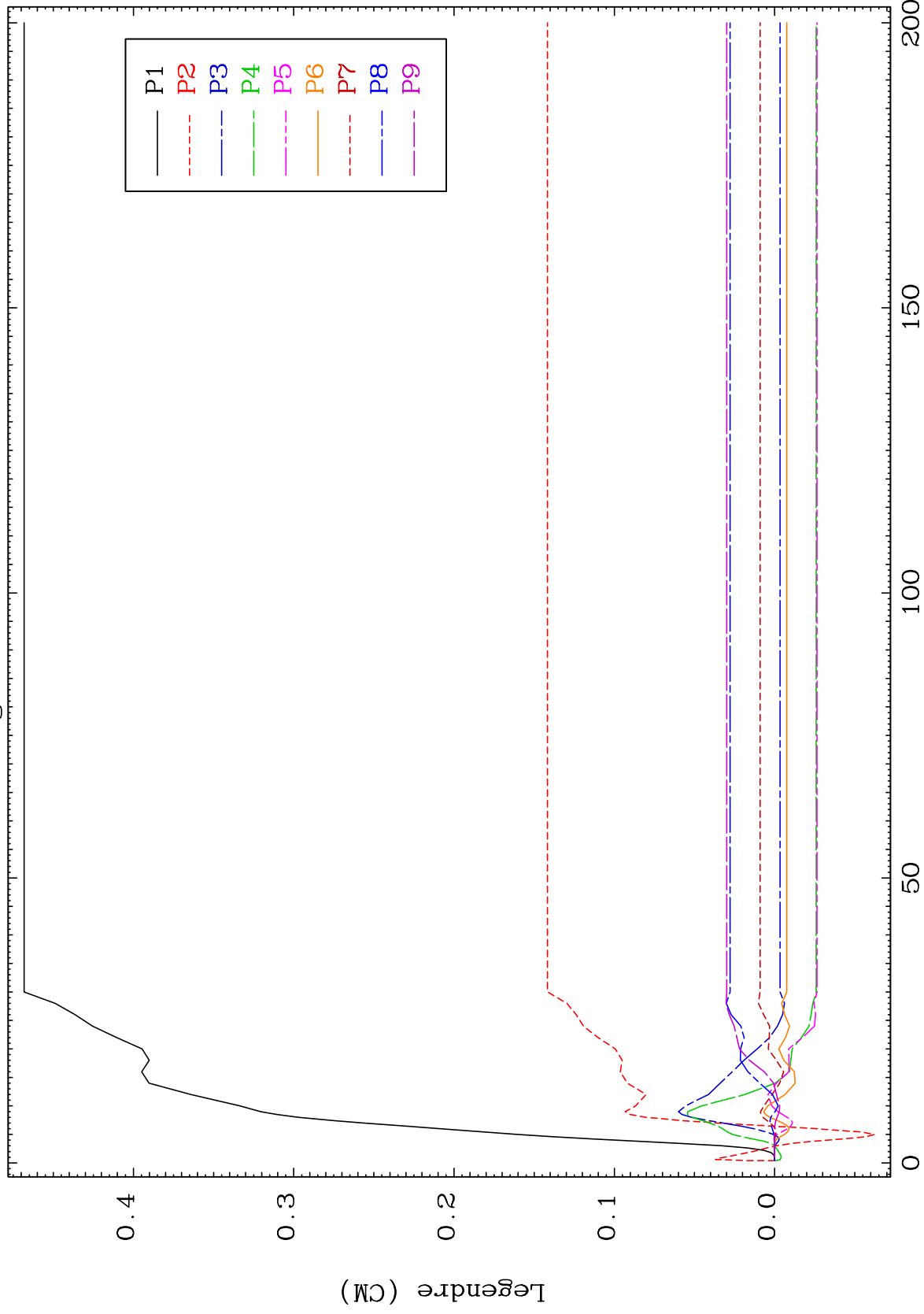




MAT 7440

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

74-W -185



48

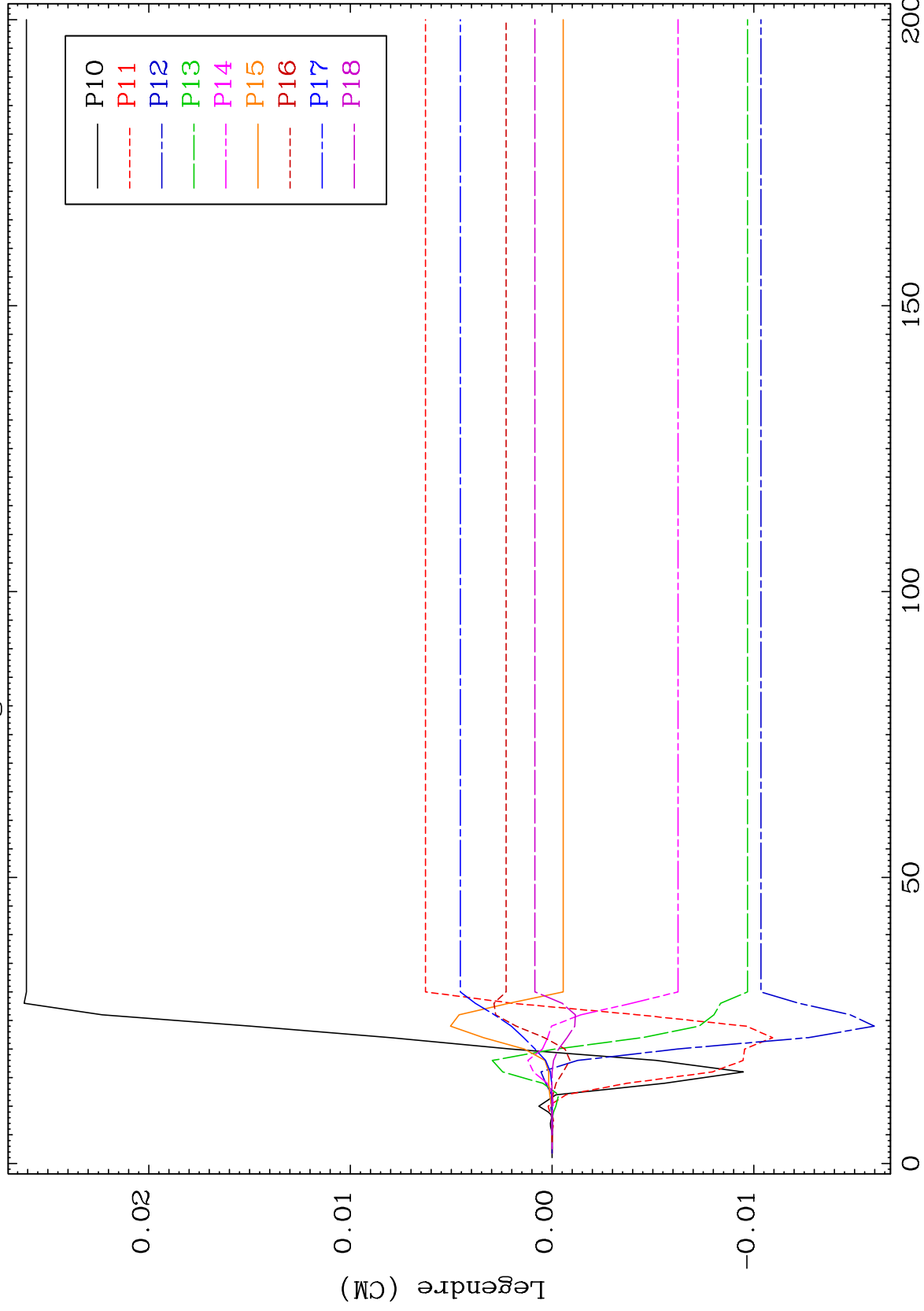
Incident Energy (MeV)

74-W -185

MAT 7440

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

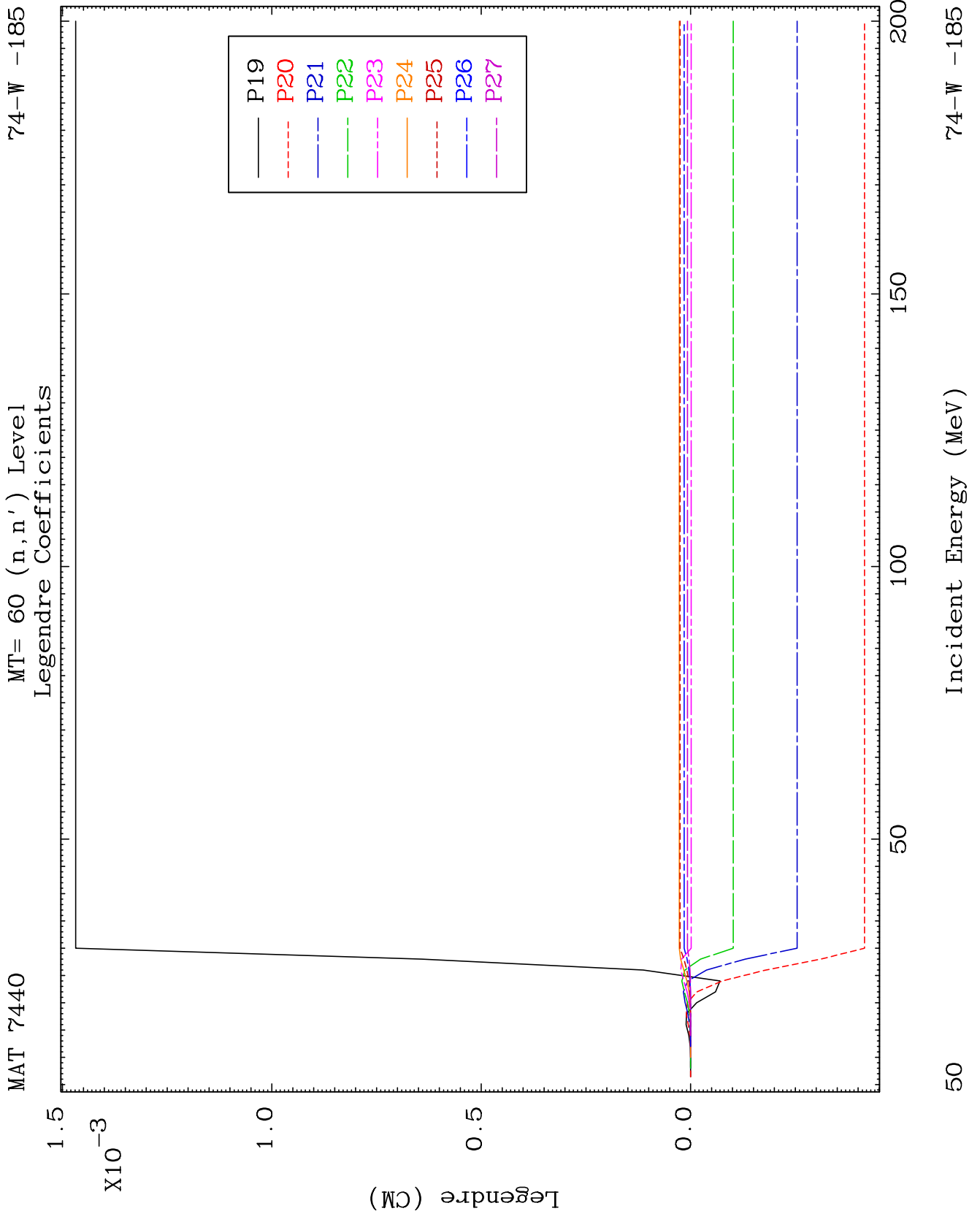
74-W -185



49

Incident Energy (MeV)

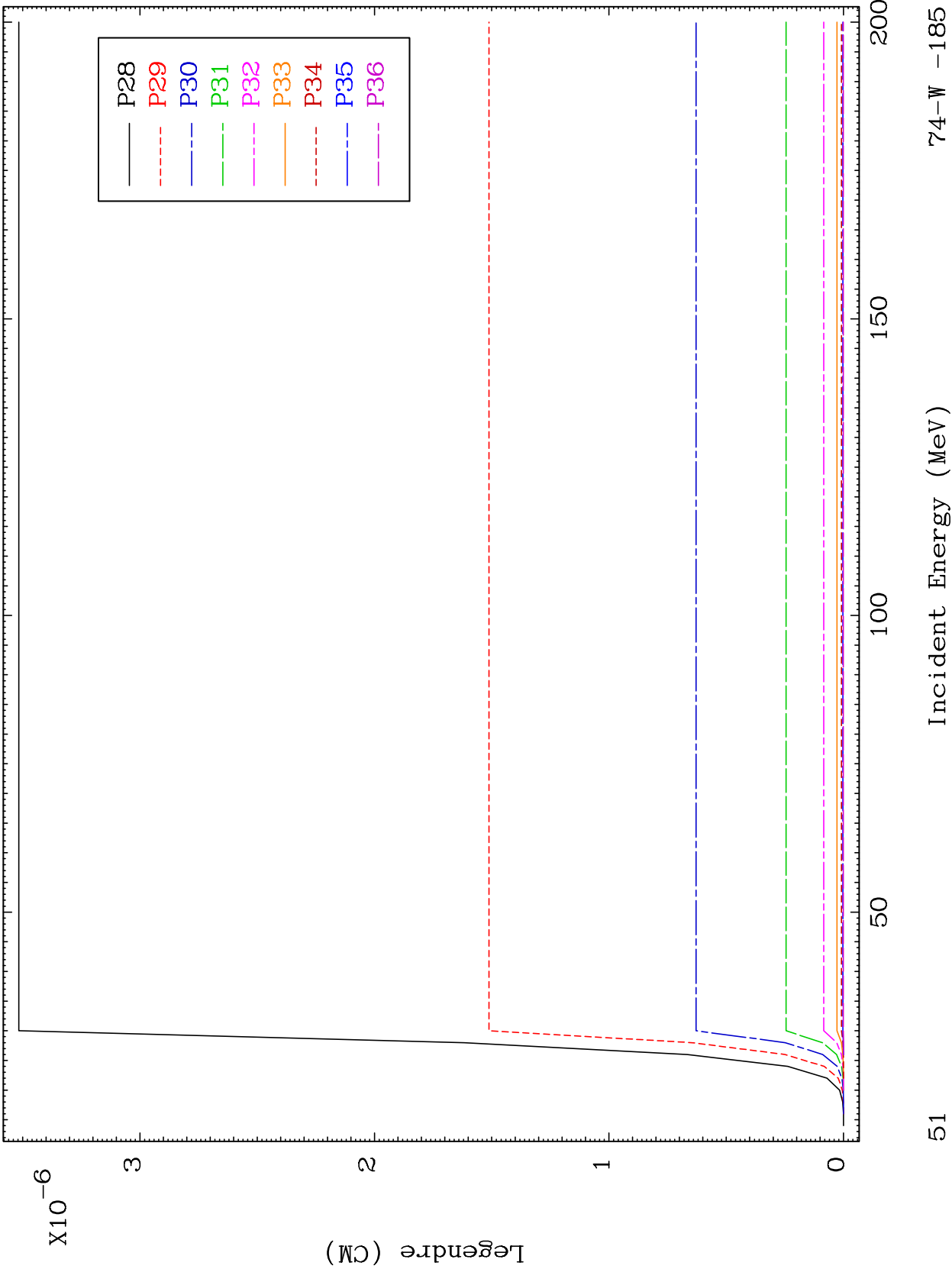
74-W -185



MAT 7440

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

74-W -185



51

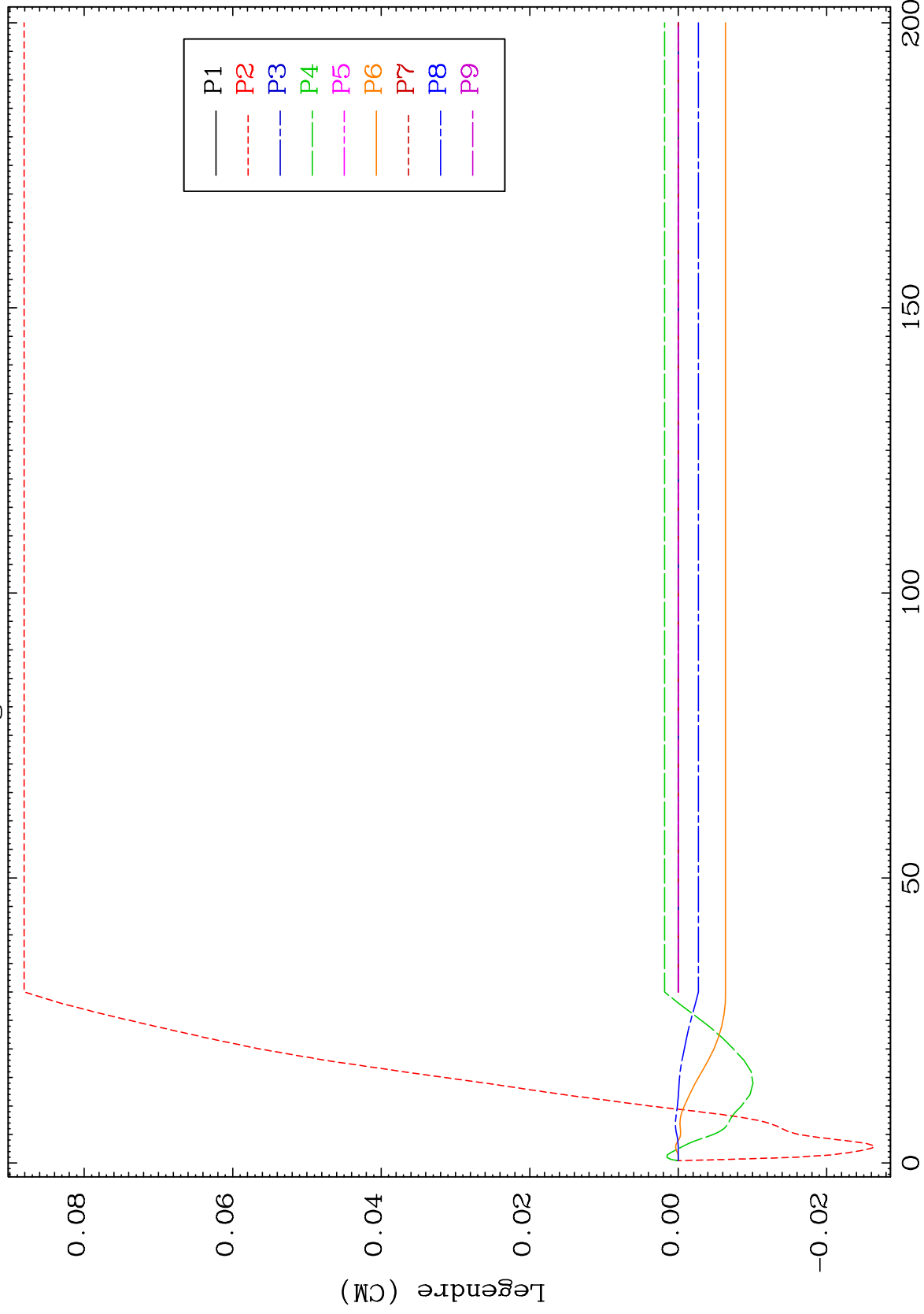
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



52

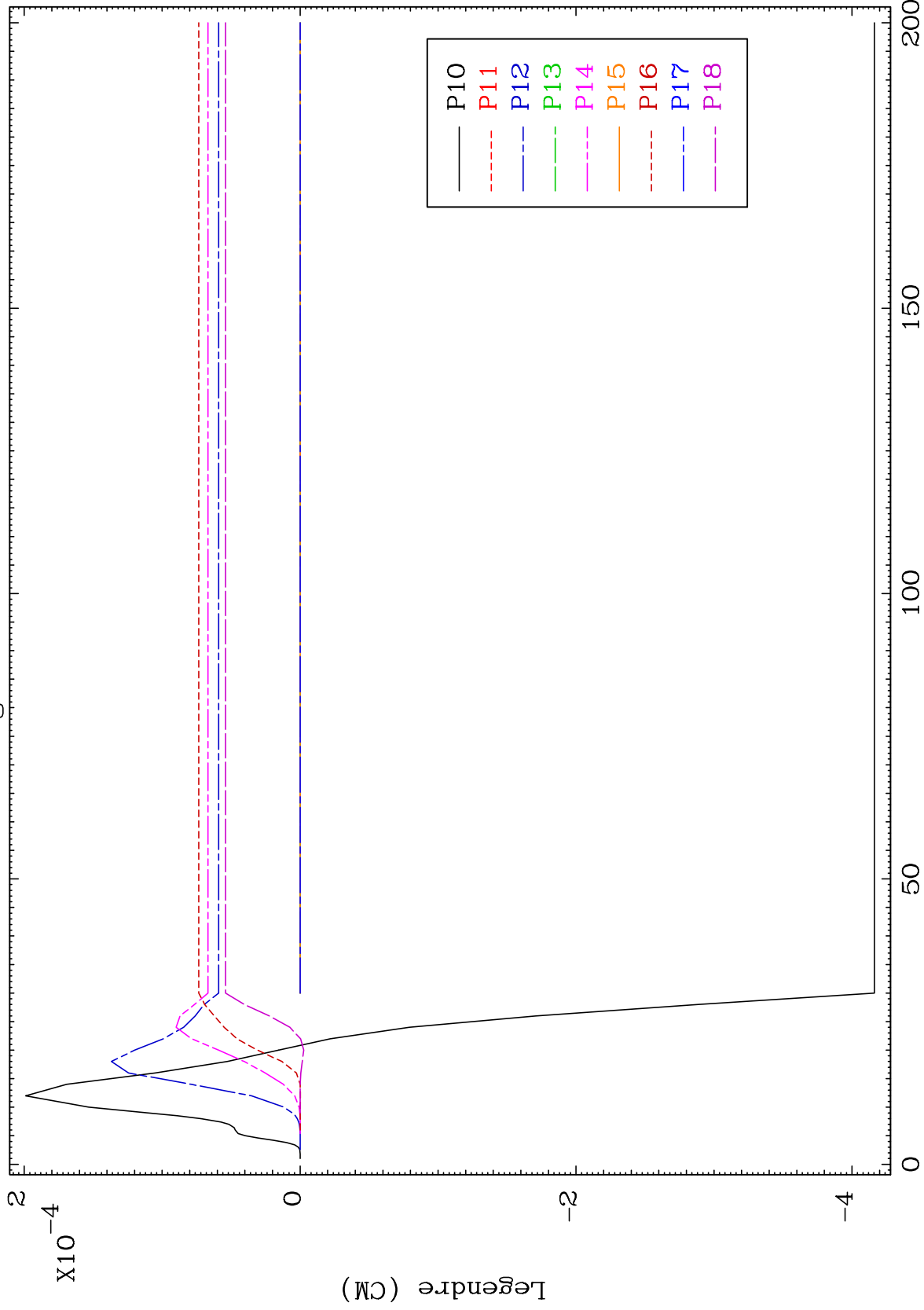
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



53

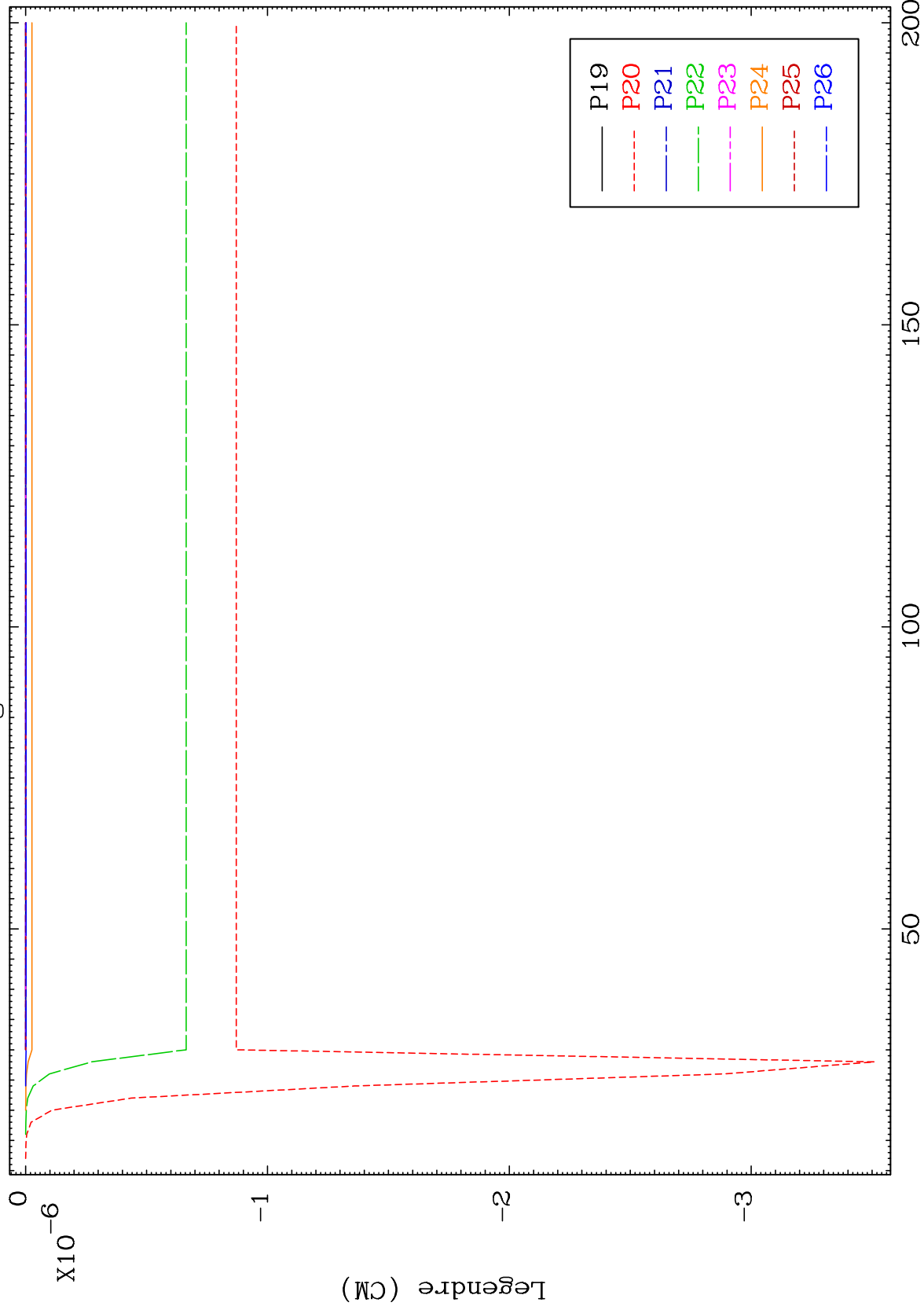
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



74-W -185

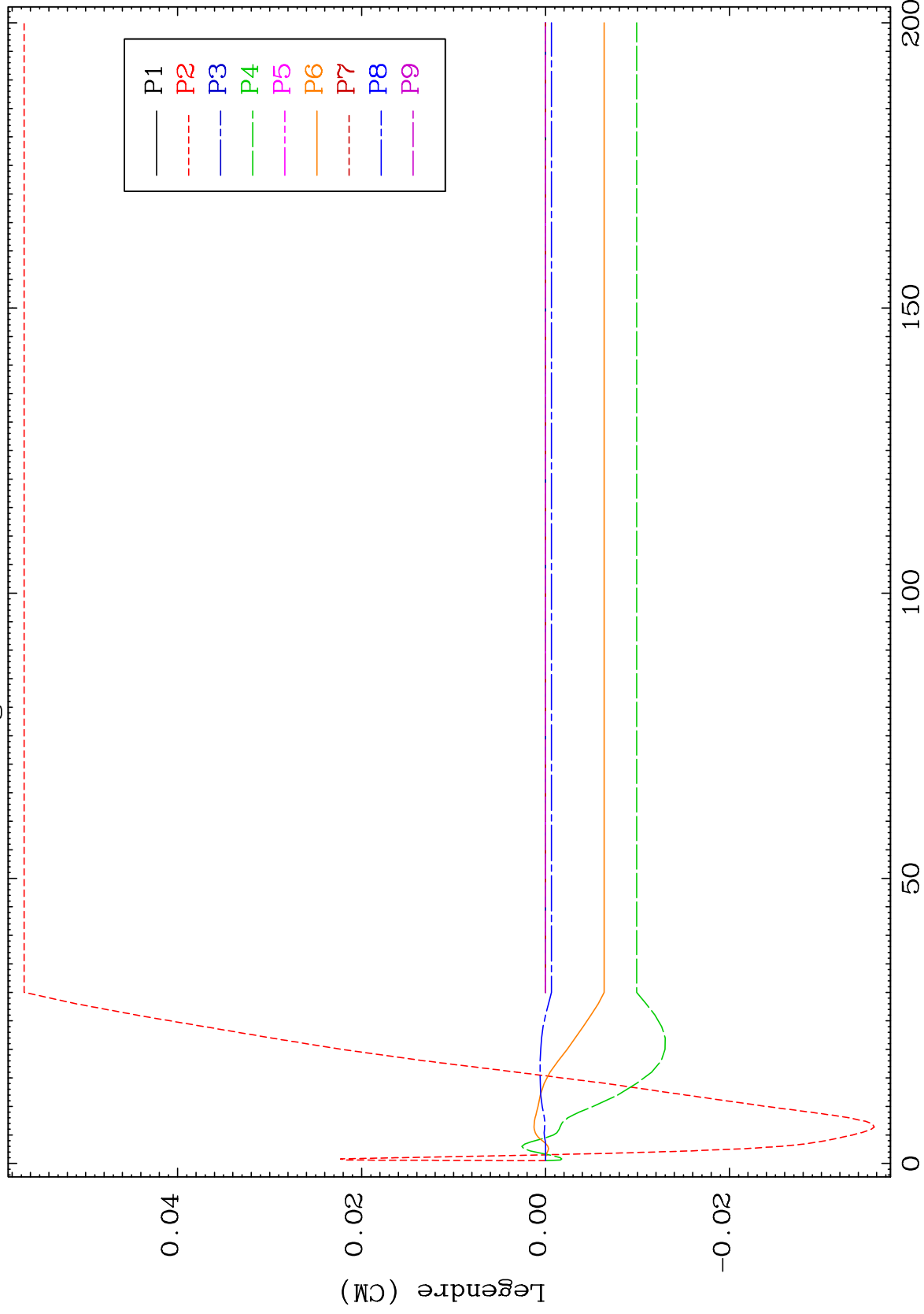
Incident Energy (MeV)

54

MAT 7440

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

74-W -185



55

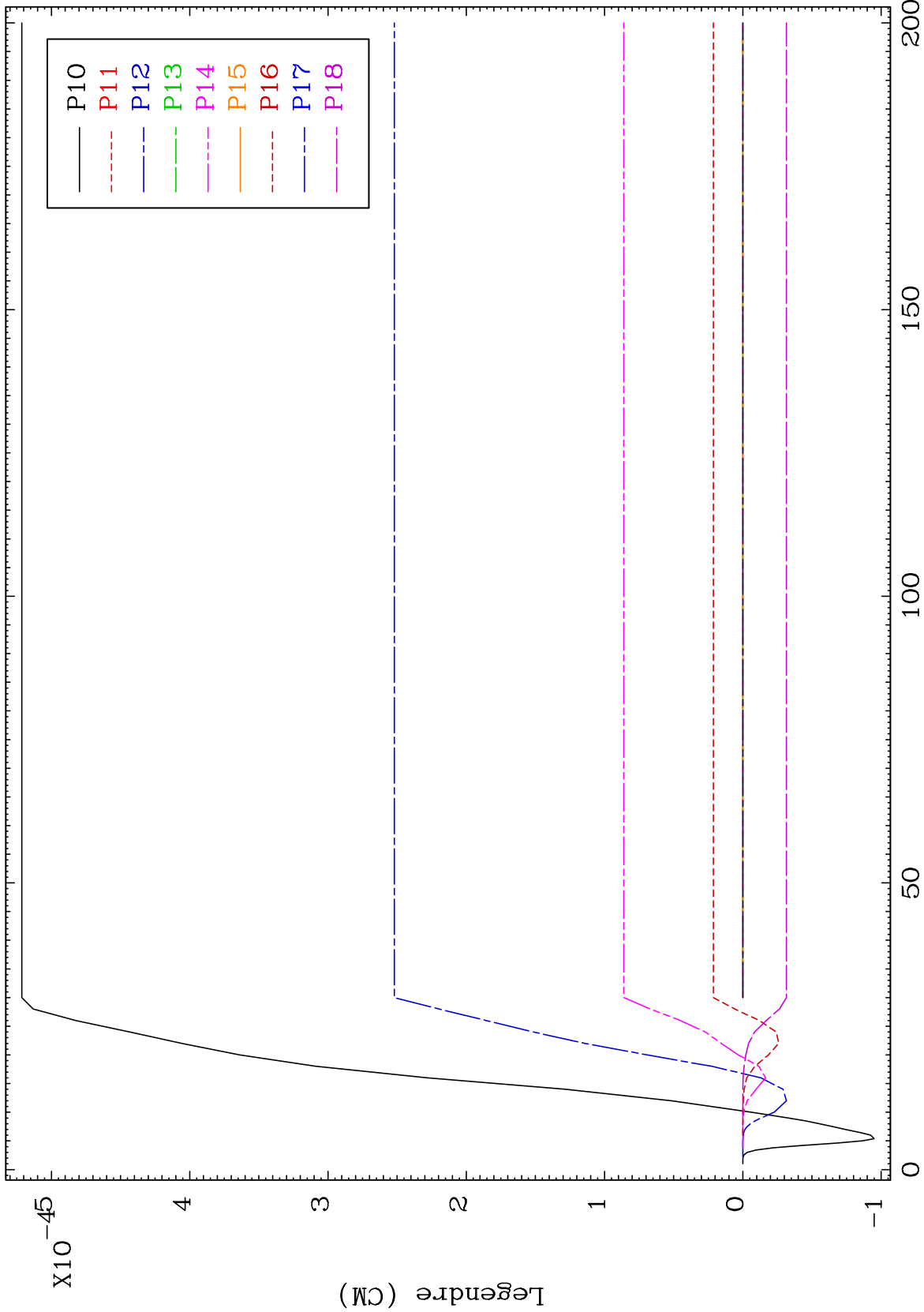
Incident Energy (MeV)

74-W -185

MAT 7440

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

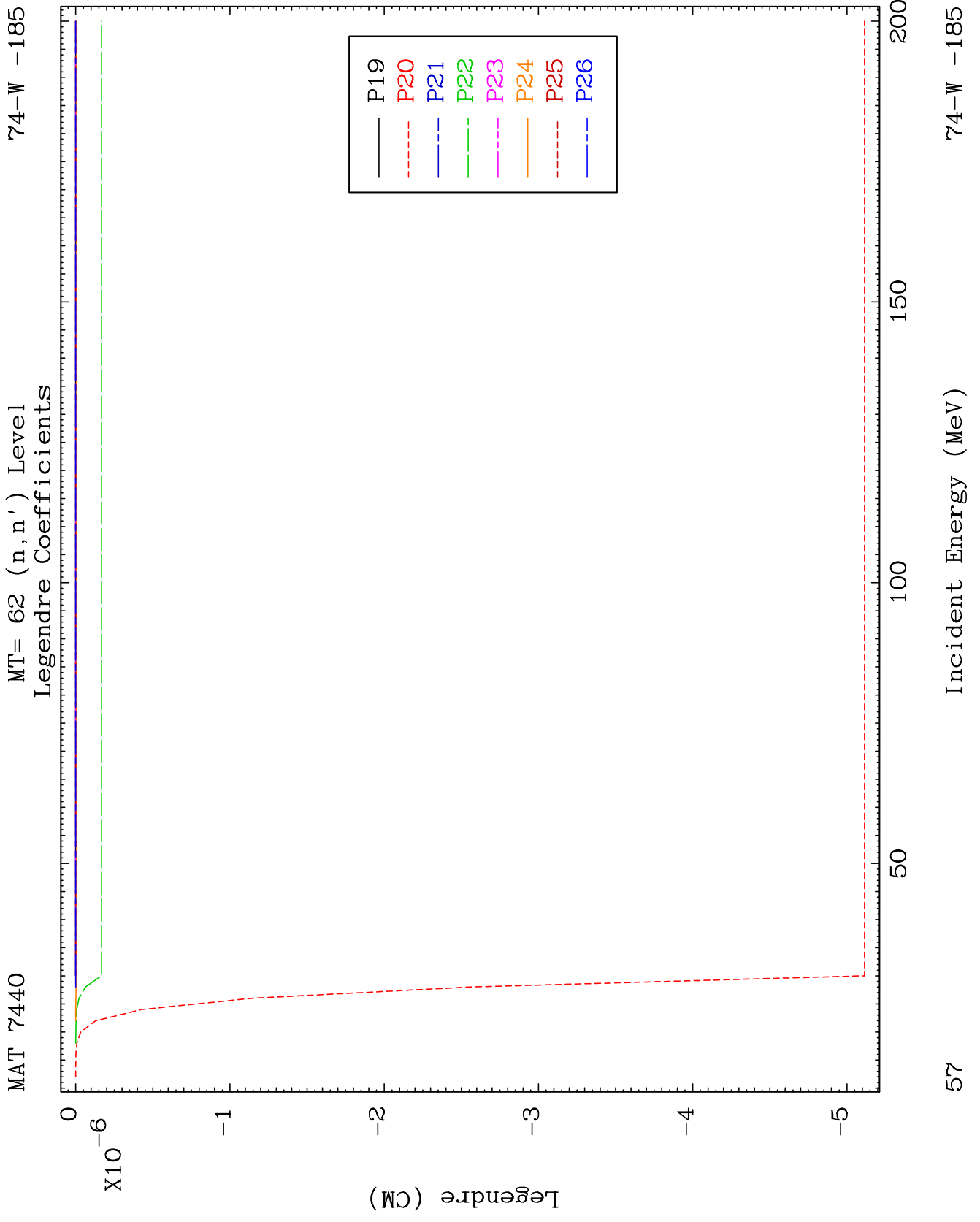
74-W -185



56

Incident Energy (MeV)

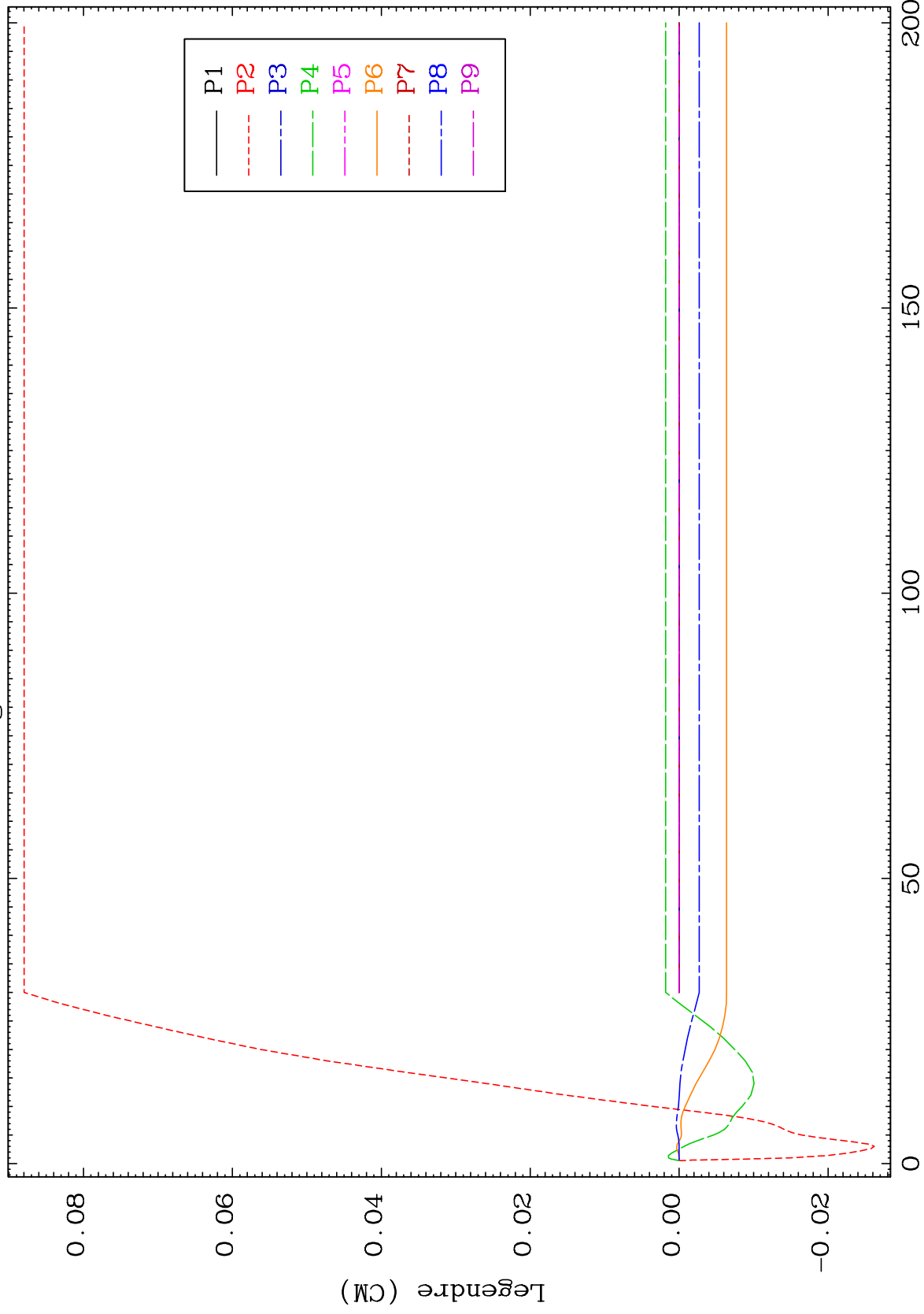
74-W -185



MAT 7440

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

74-W -185



58

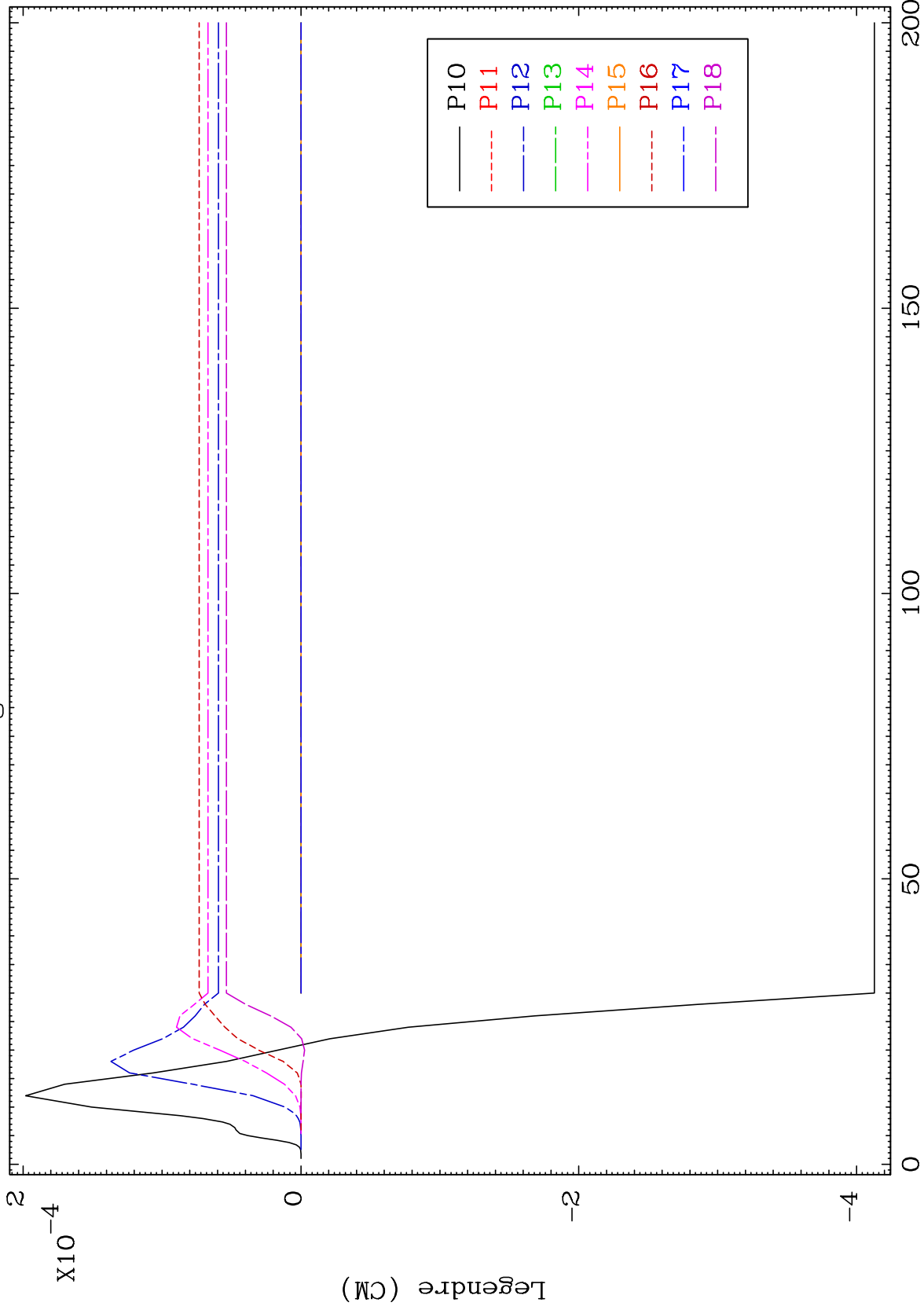
Incident Energy (MeV)

74-W -185

MAT 7440

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

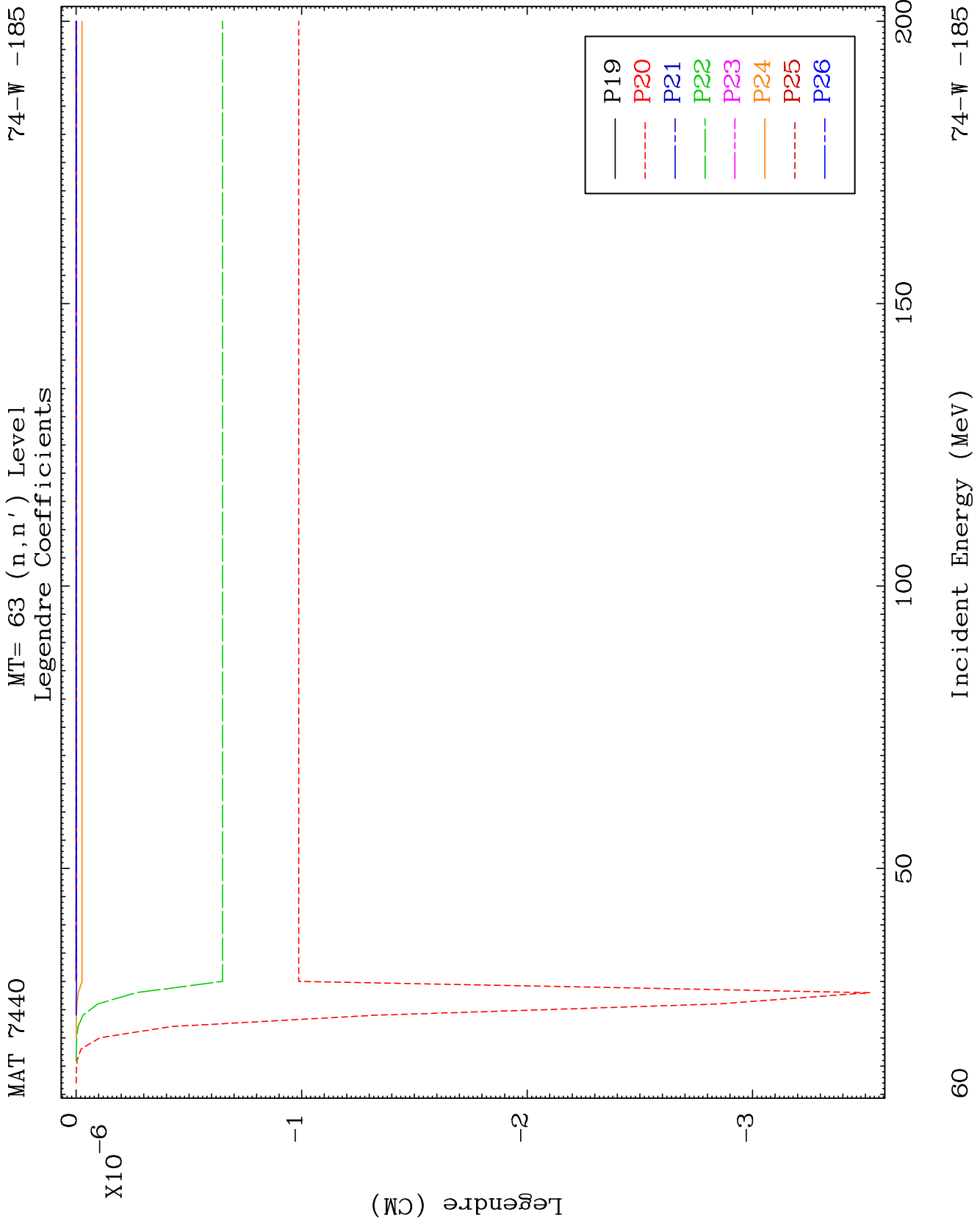
74-W -185



59

Incident Energy (MeV)

74-W -185

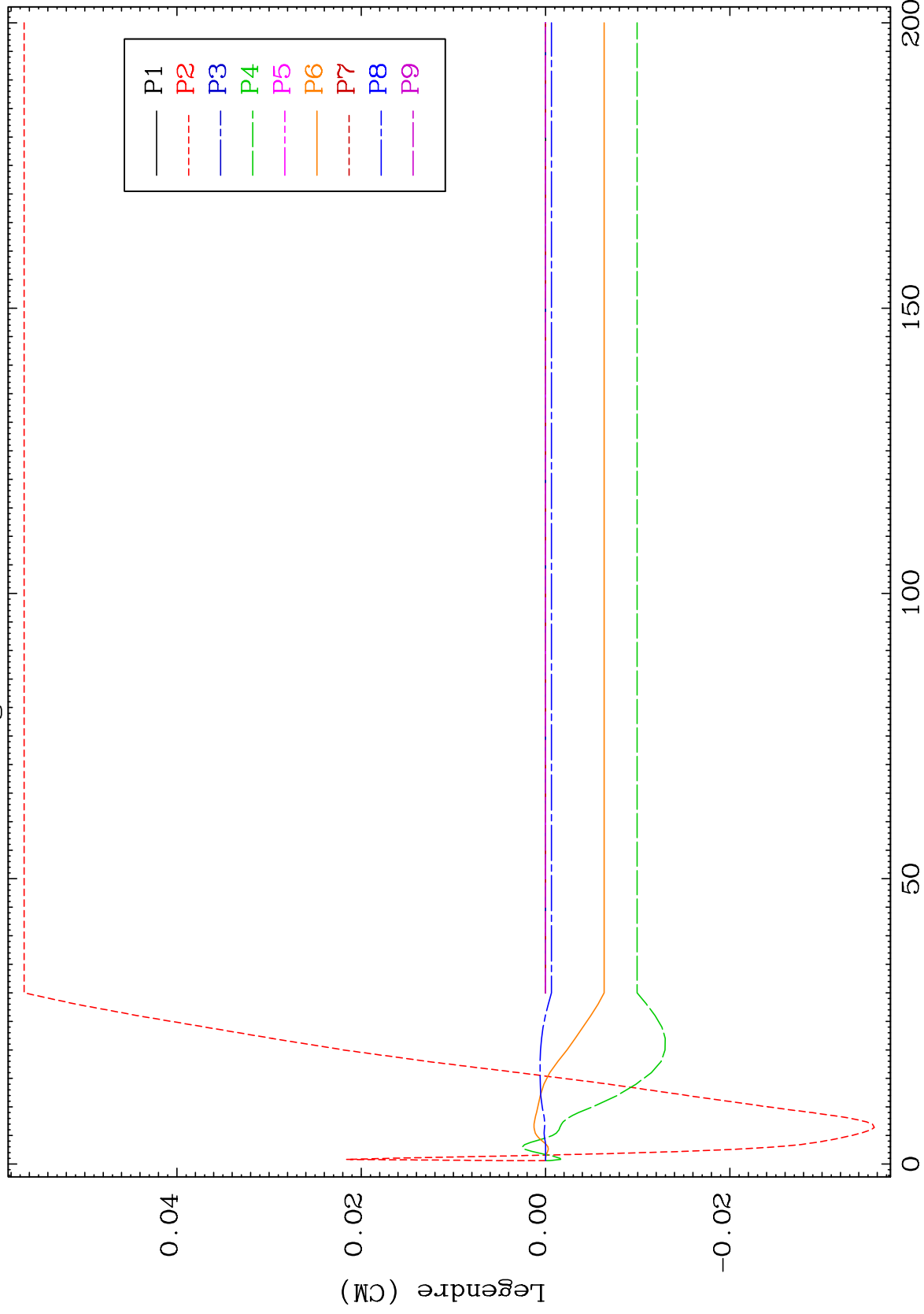


MAT 7440

MT= 64 (n,n') Level

74-W -185

Legendre Coefficients



61

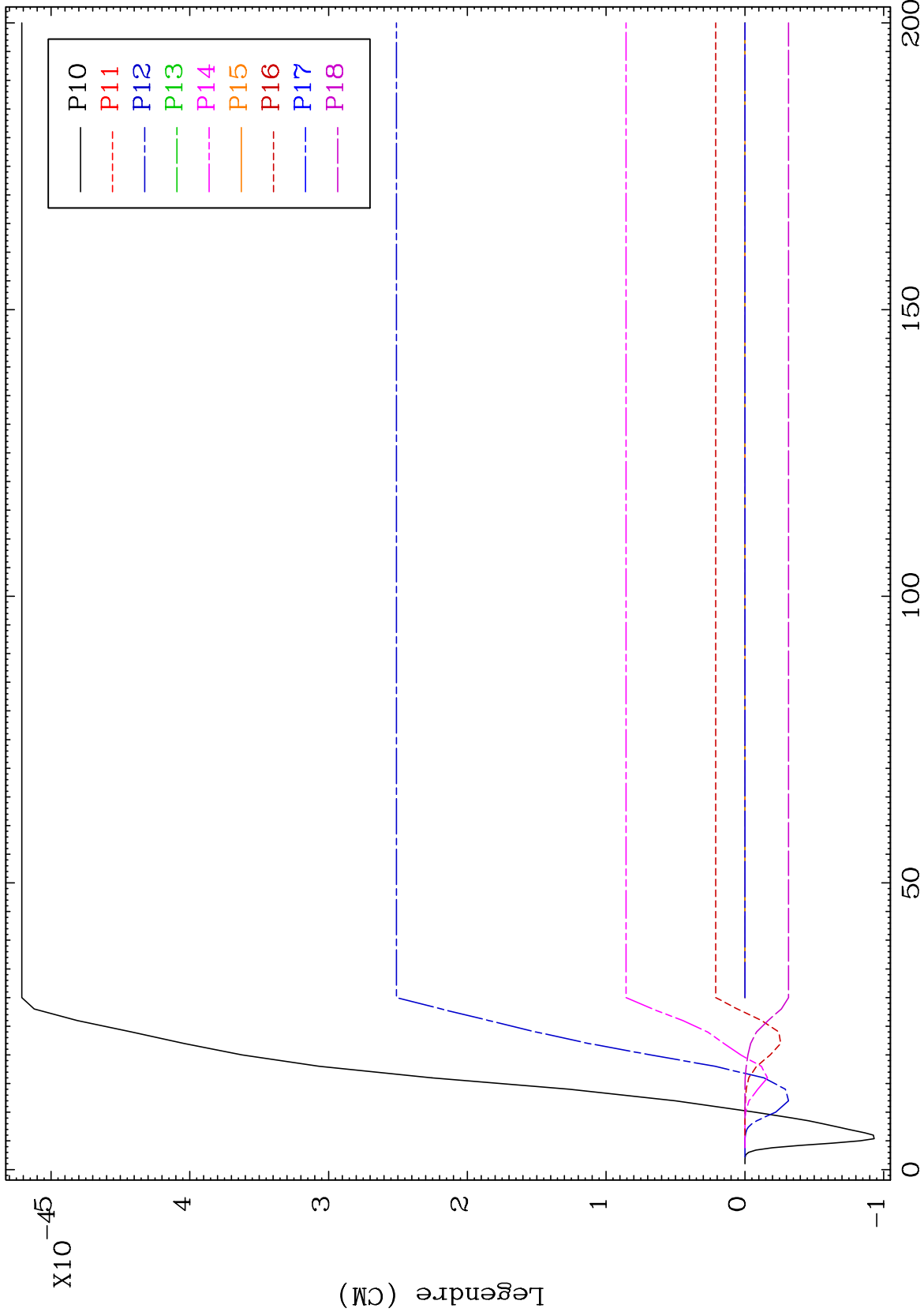
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



62

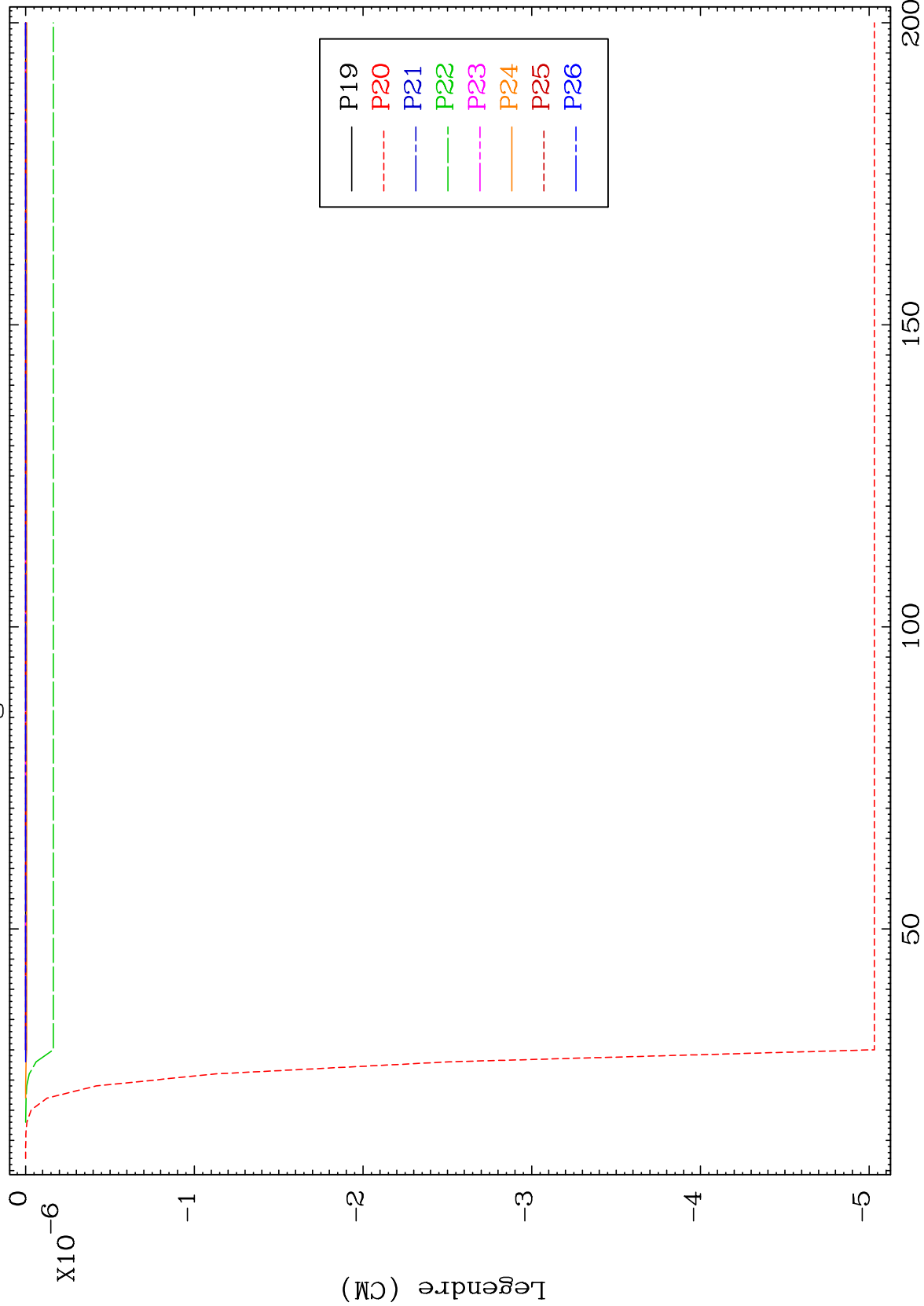
Incident Energy (MeV)

74-W -185

MAT 7440

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

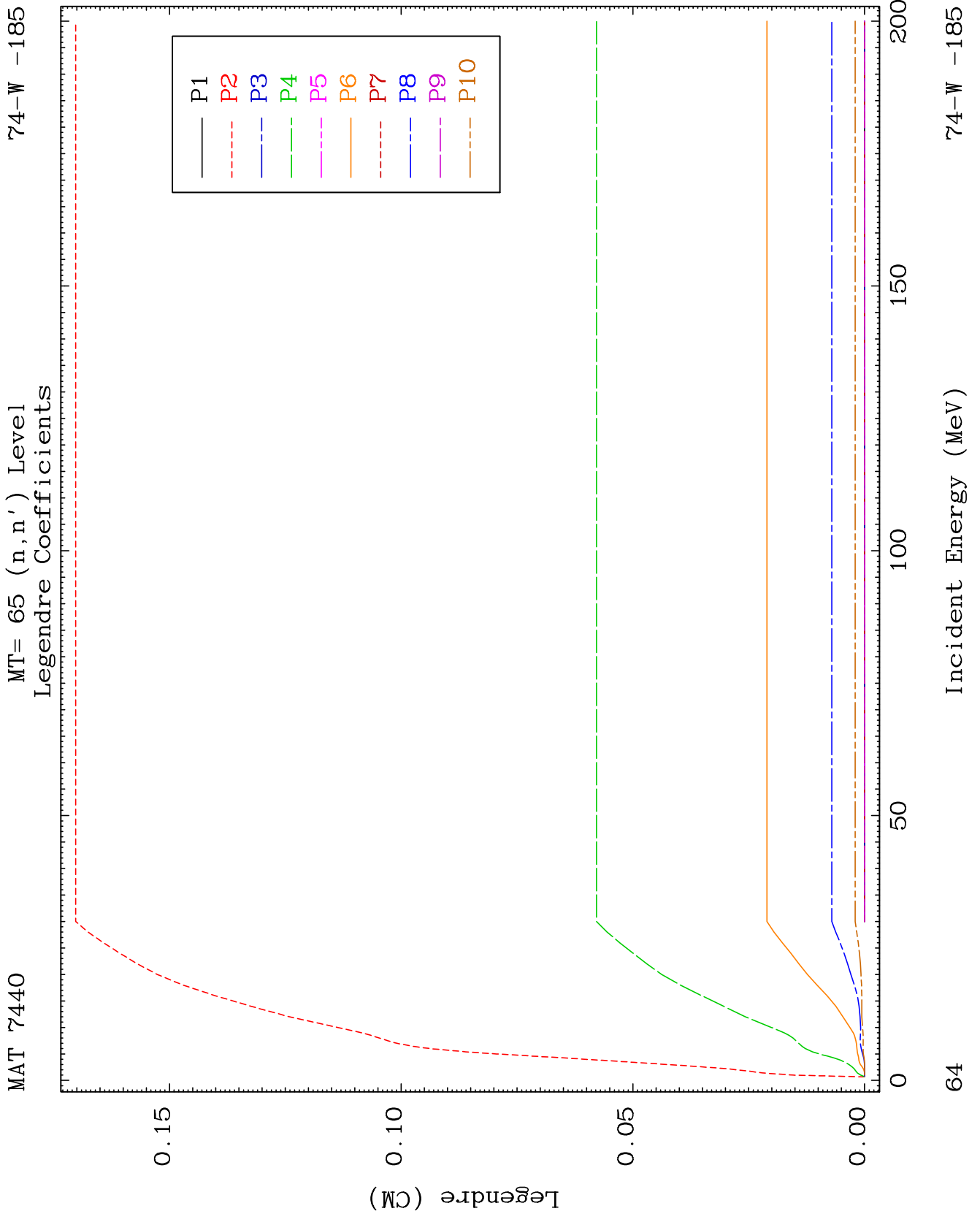
74-W -185



74-W -185

Incident Energy (MeV)

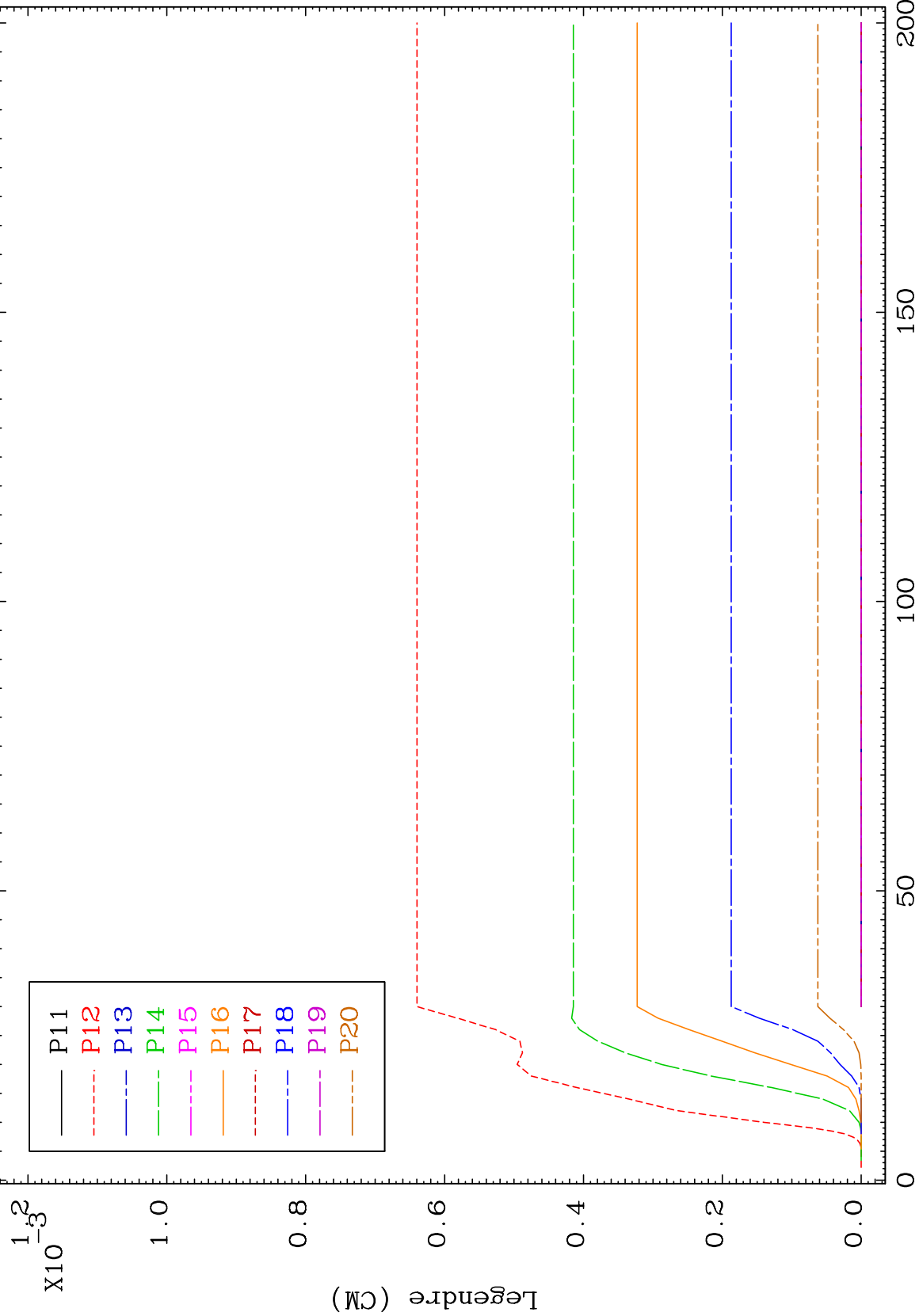
63



MAT 7440

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

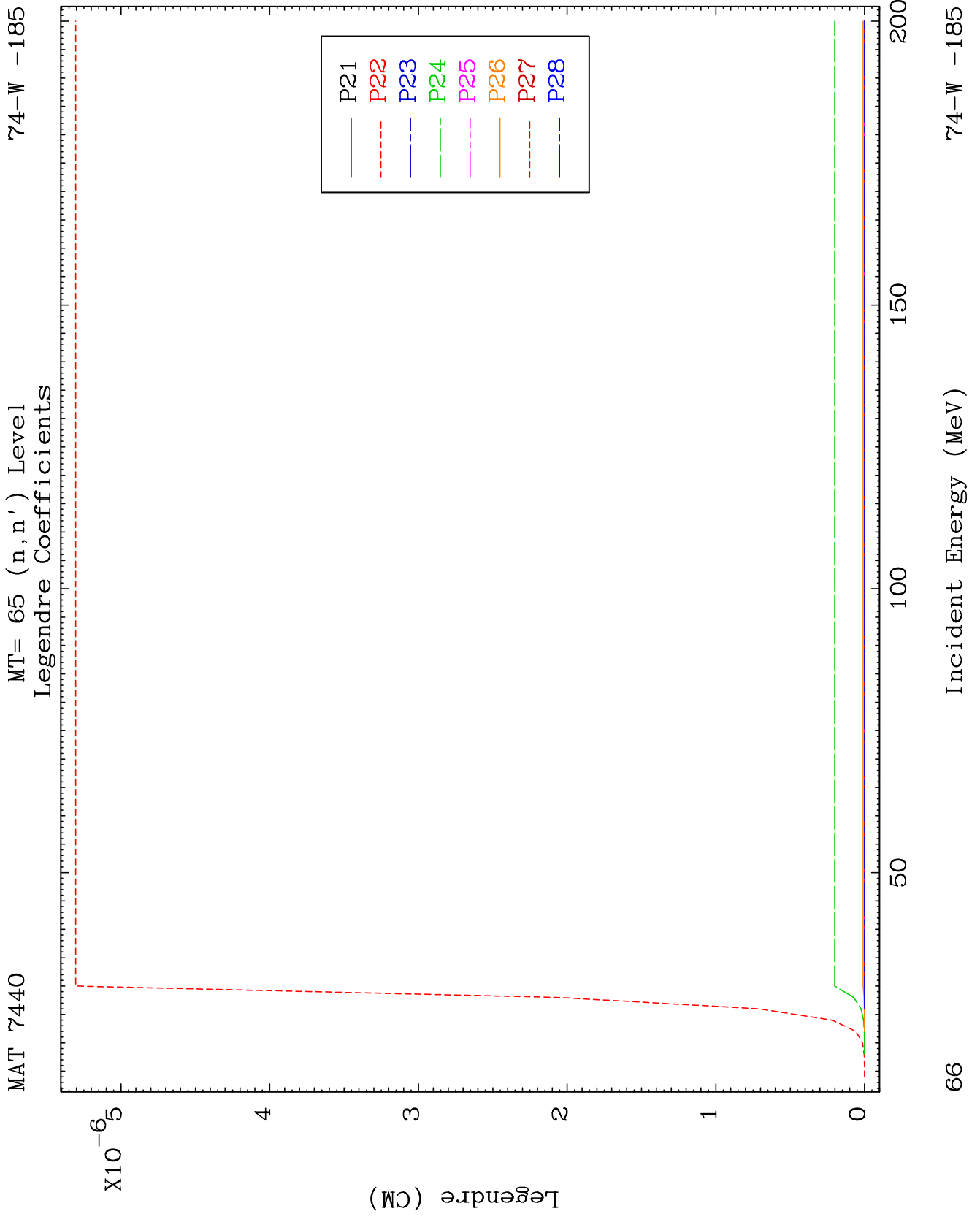
74-W -185



65

Incident Energy (MeV)

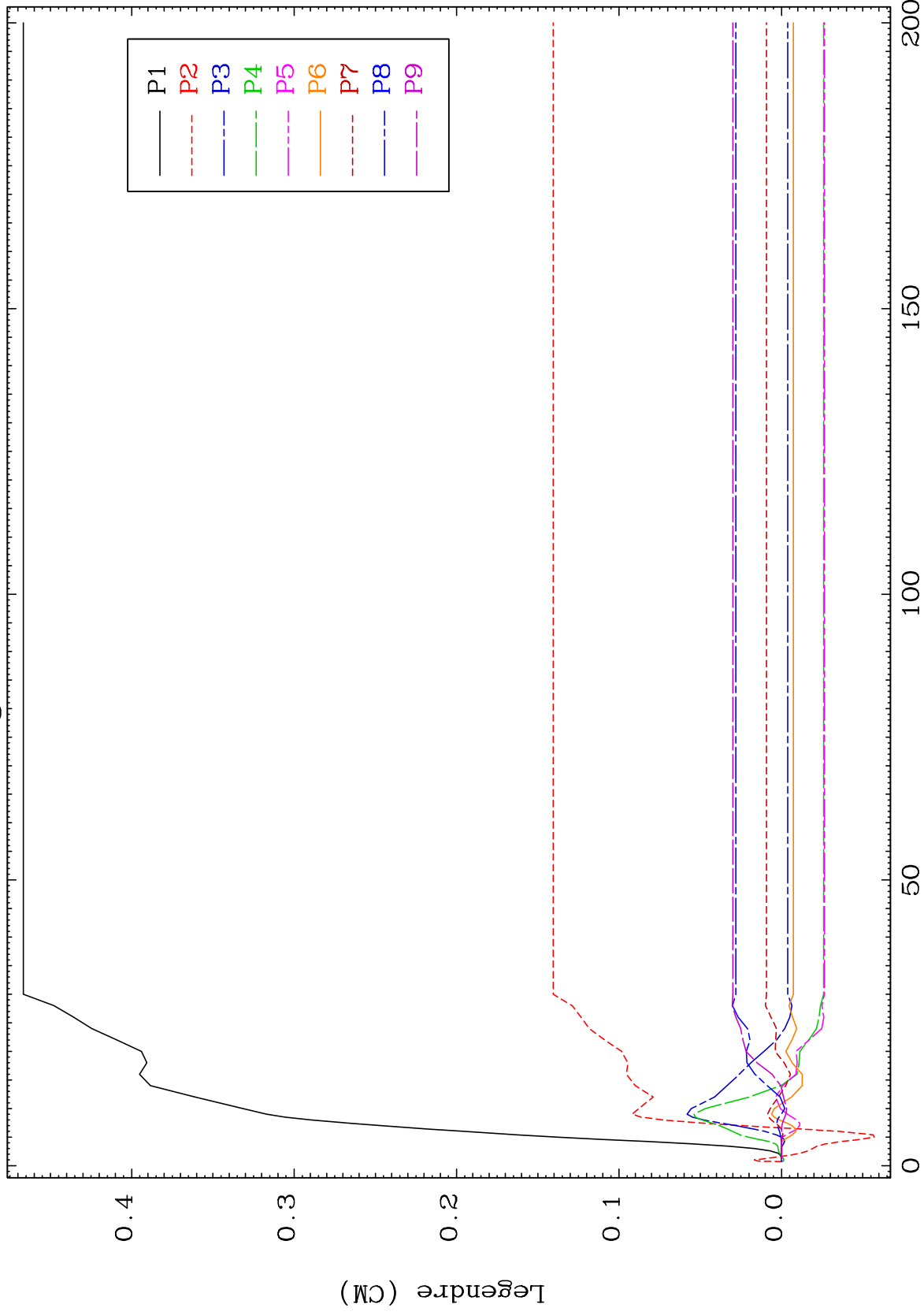
74-W -185



MAT 7440

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

74-W -185



67

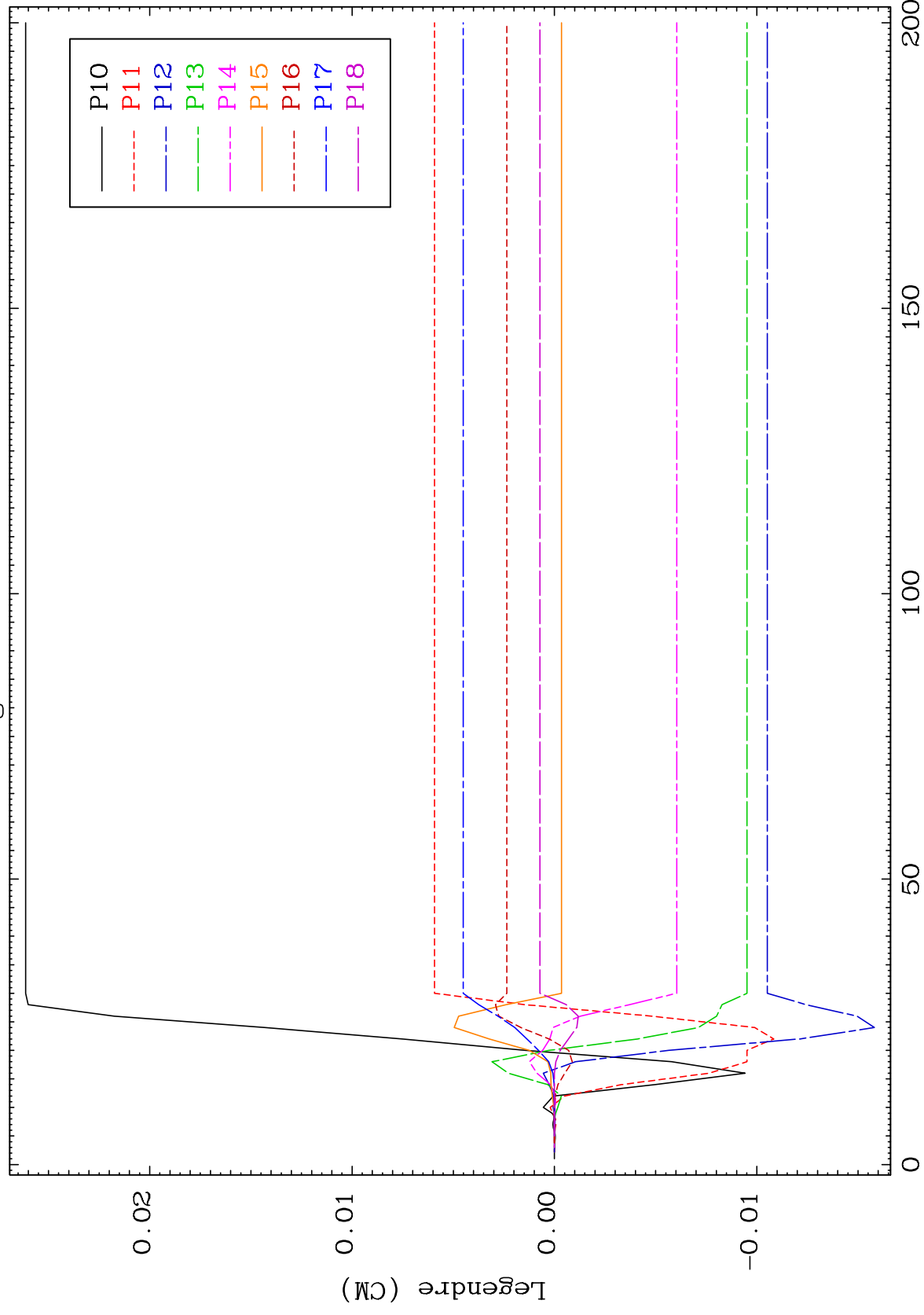
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



68

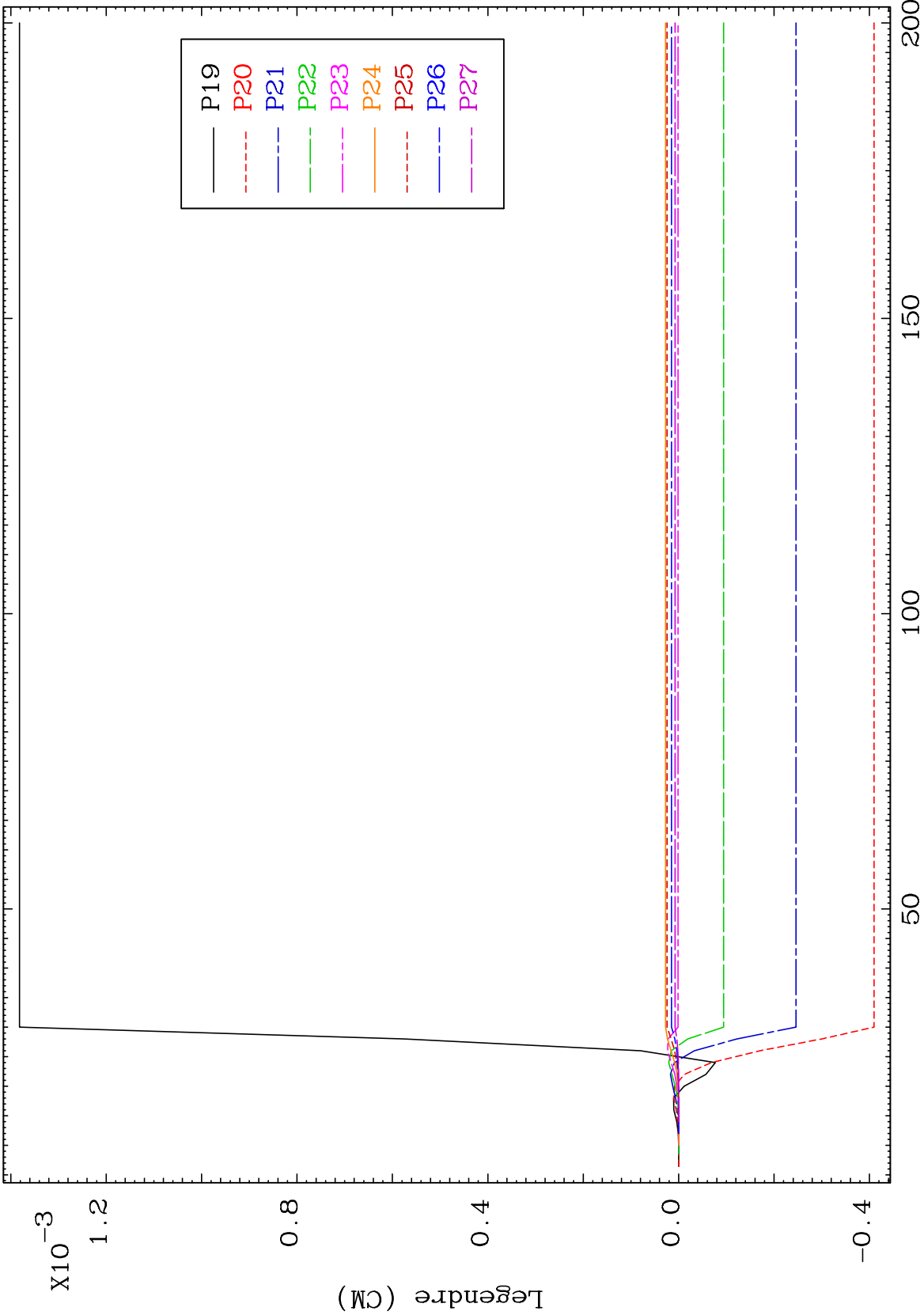
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



69

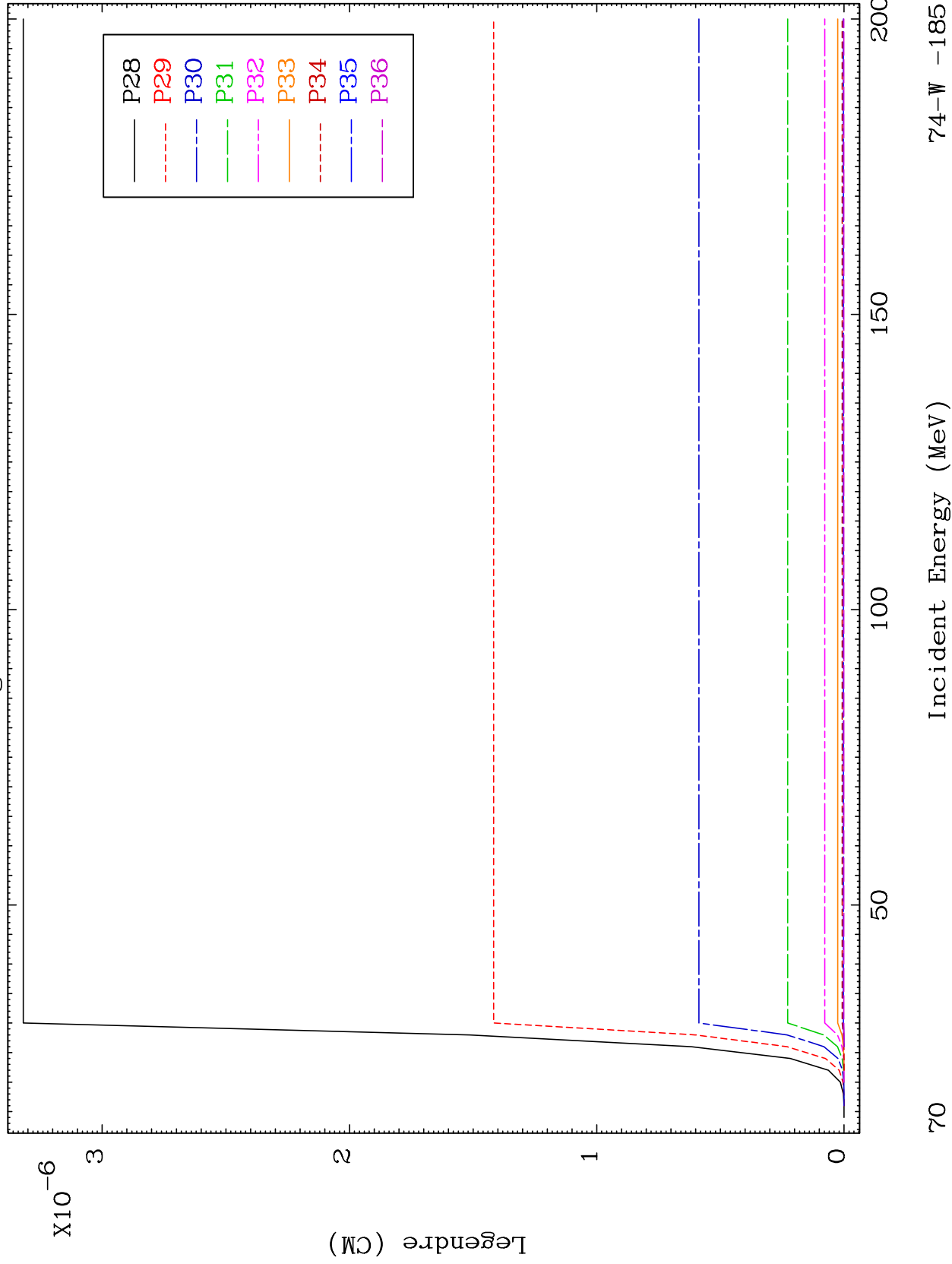
Incident Energy (MeV)

74-W -185

MAT 7440

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

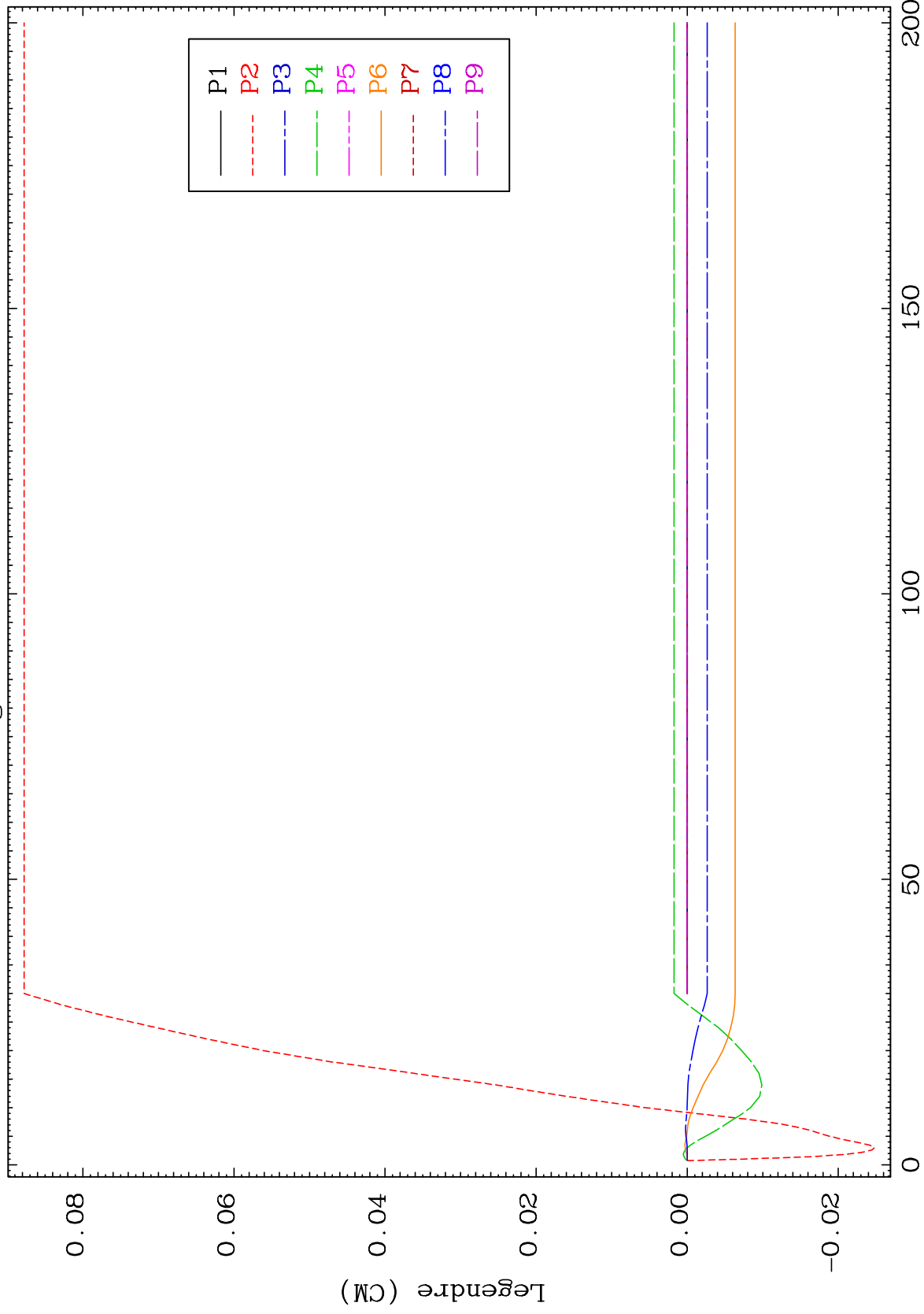
74-W -185



MAT 7440

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

74-W -185



71

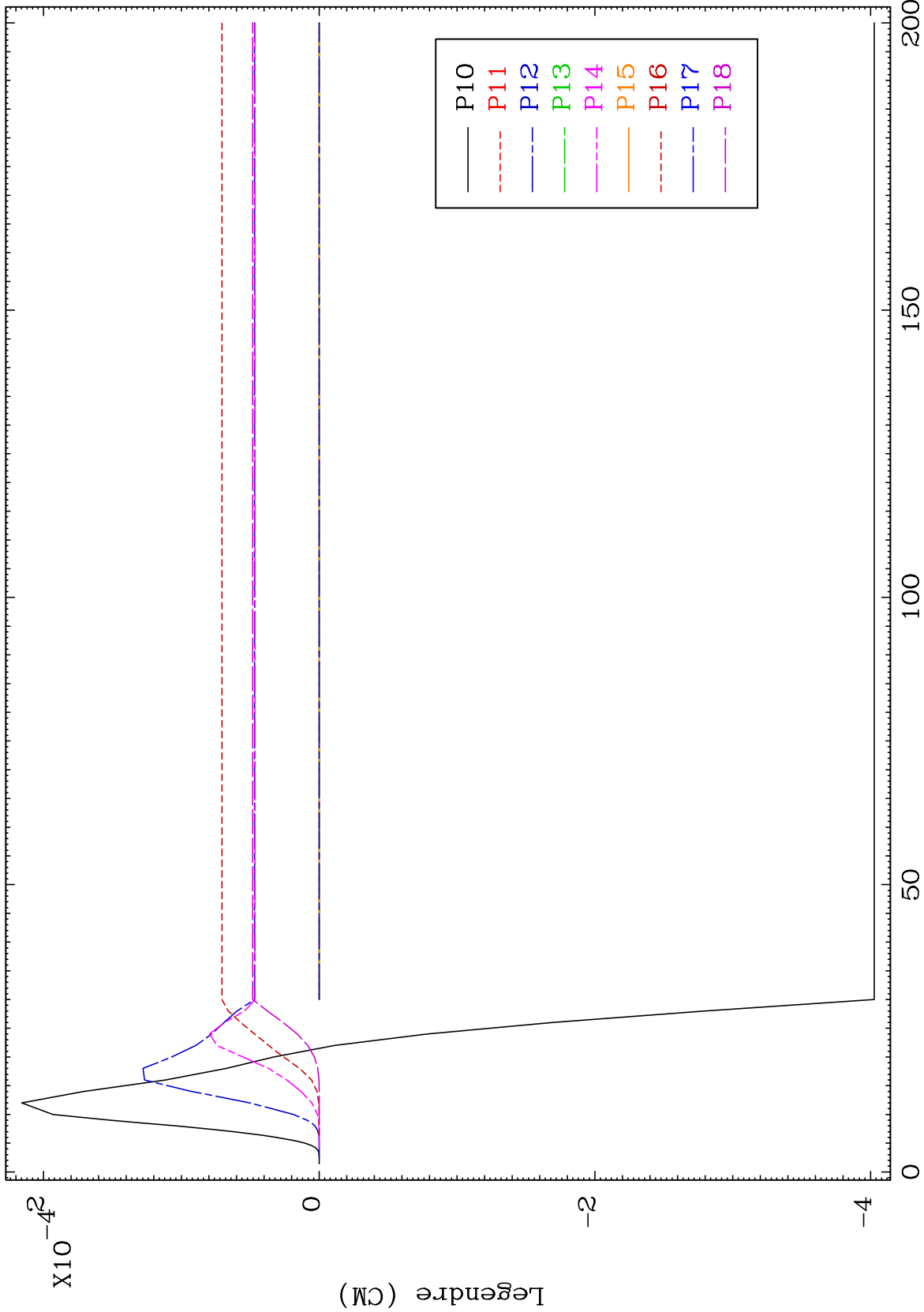
Incident Energy (MeV)

74-W -185

MAT 7440

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

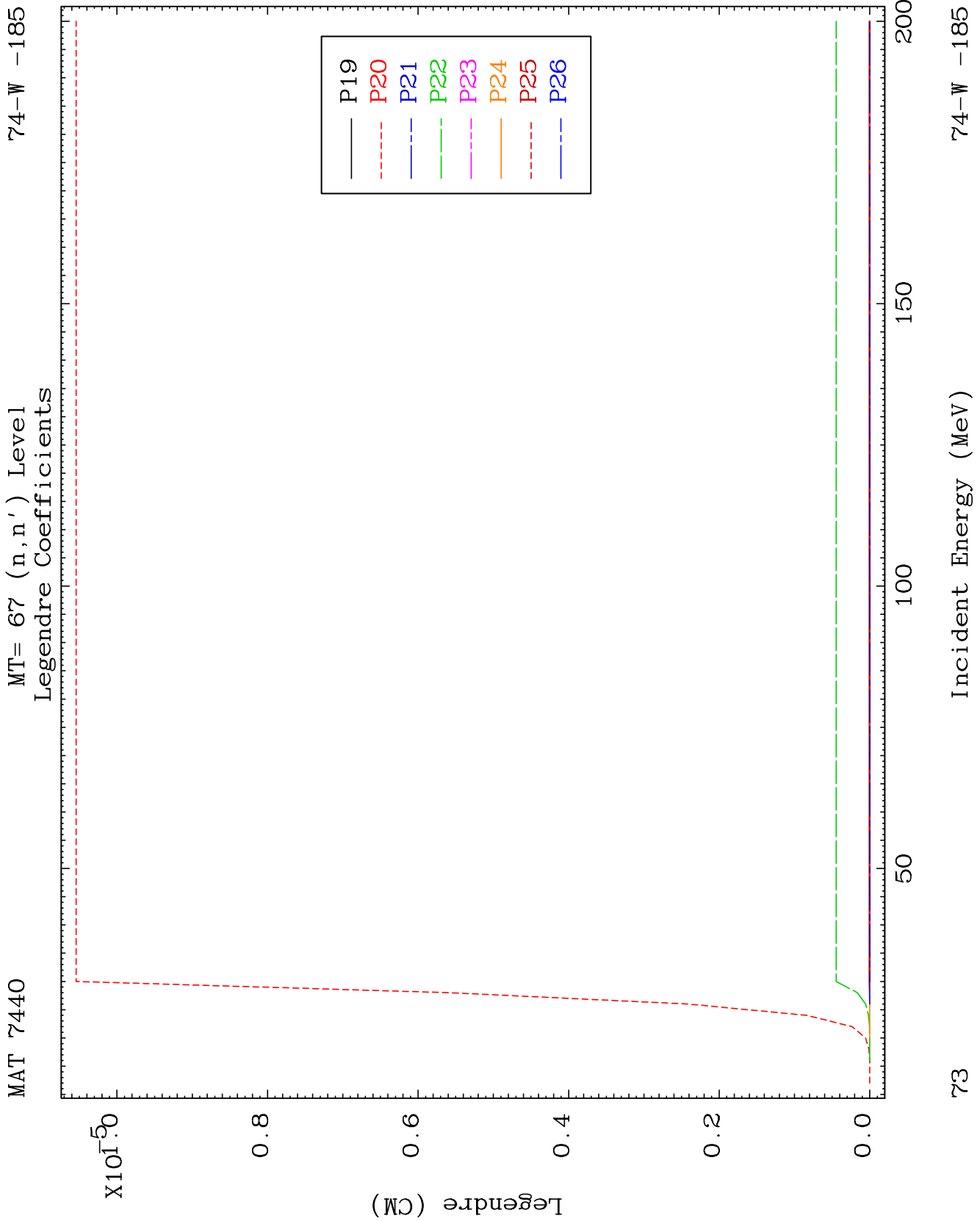
74-W -185

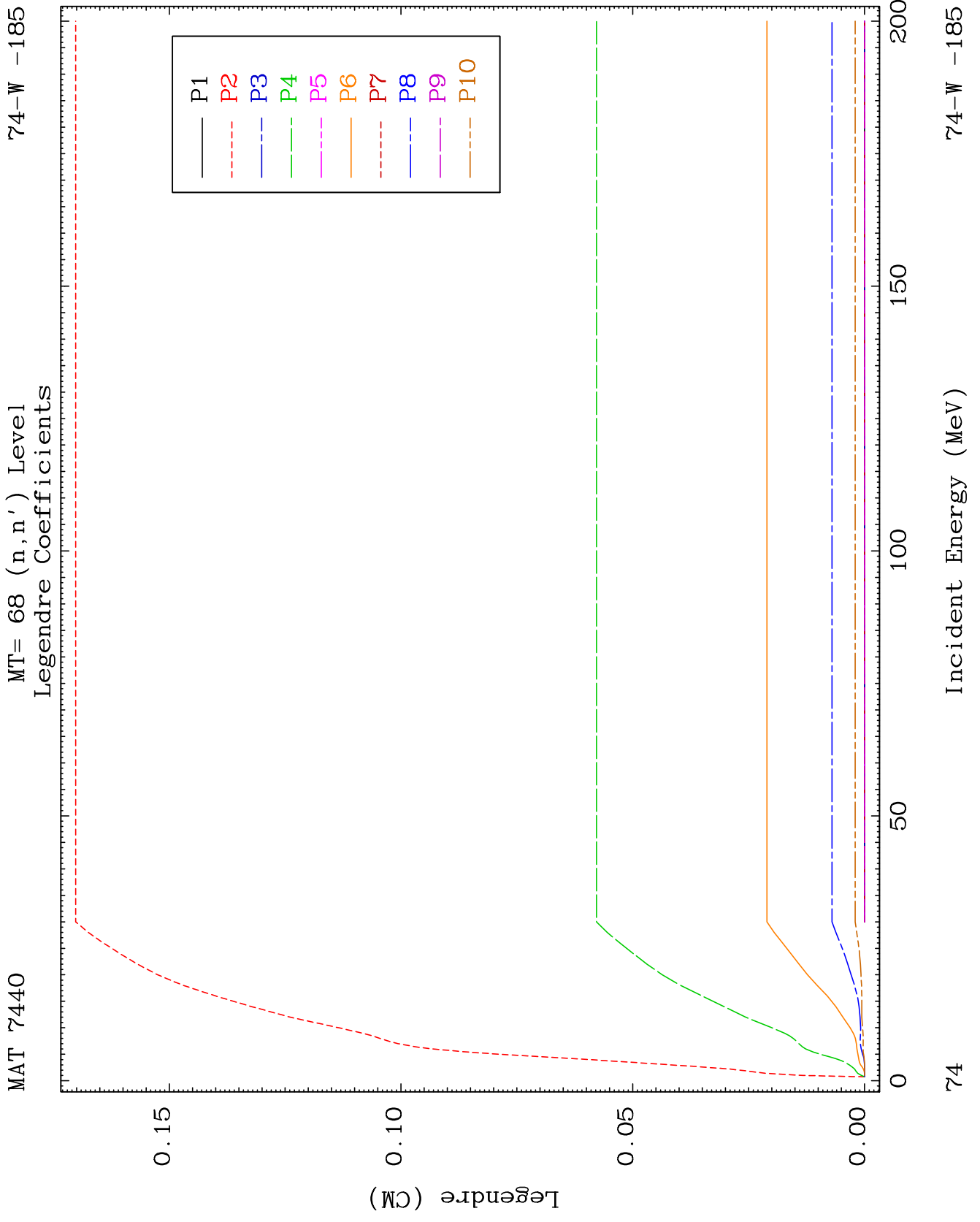


72

Incident Energy (MeV)

74-W -185

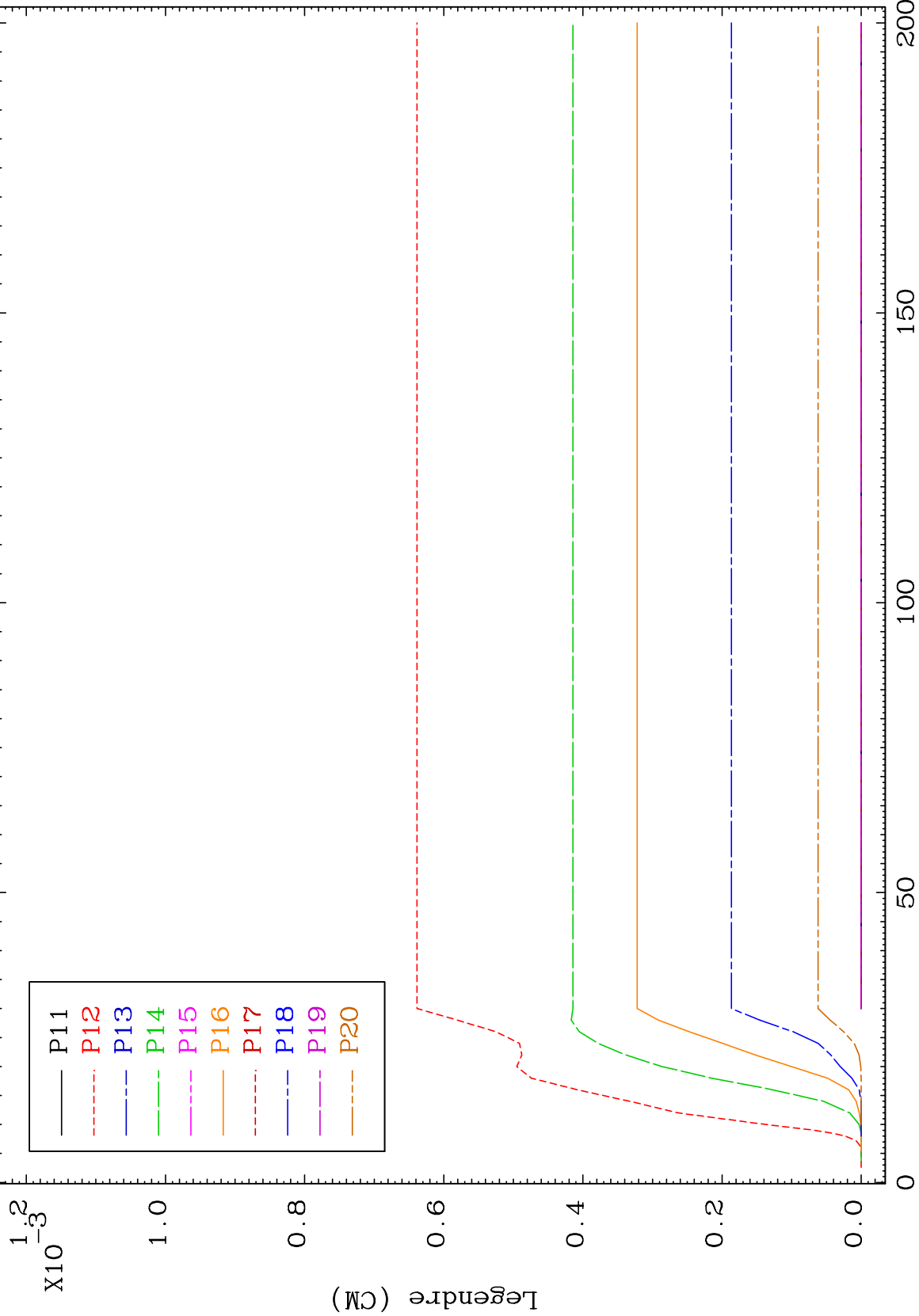




MAT 7440

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

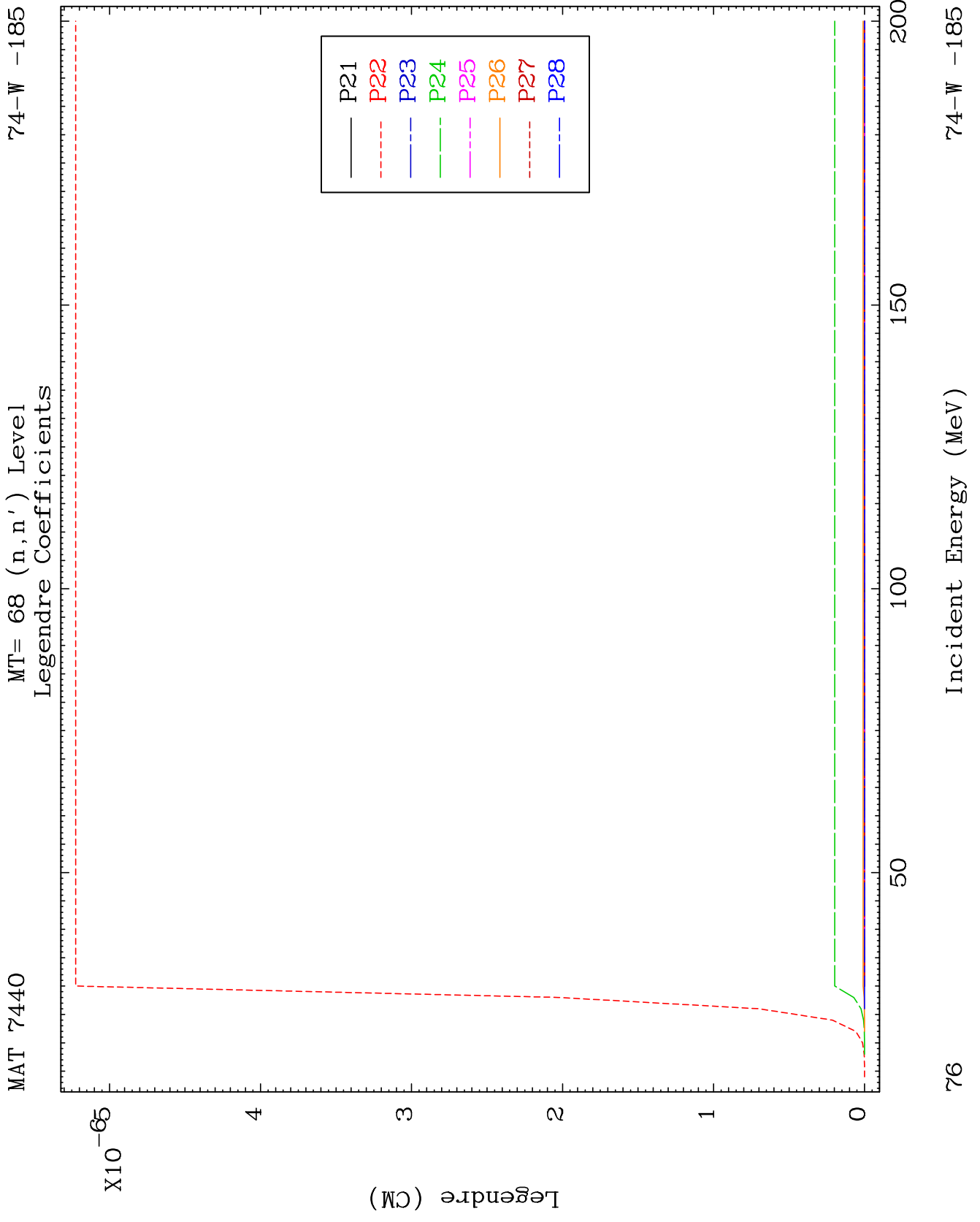
74-W -185



75

Incident Energy (MeV)

74-W -185

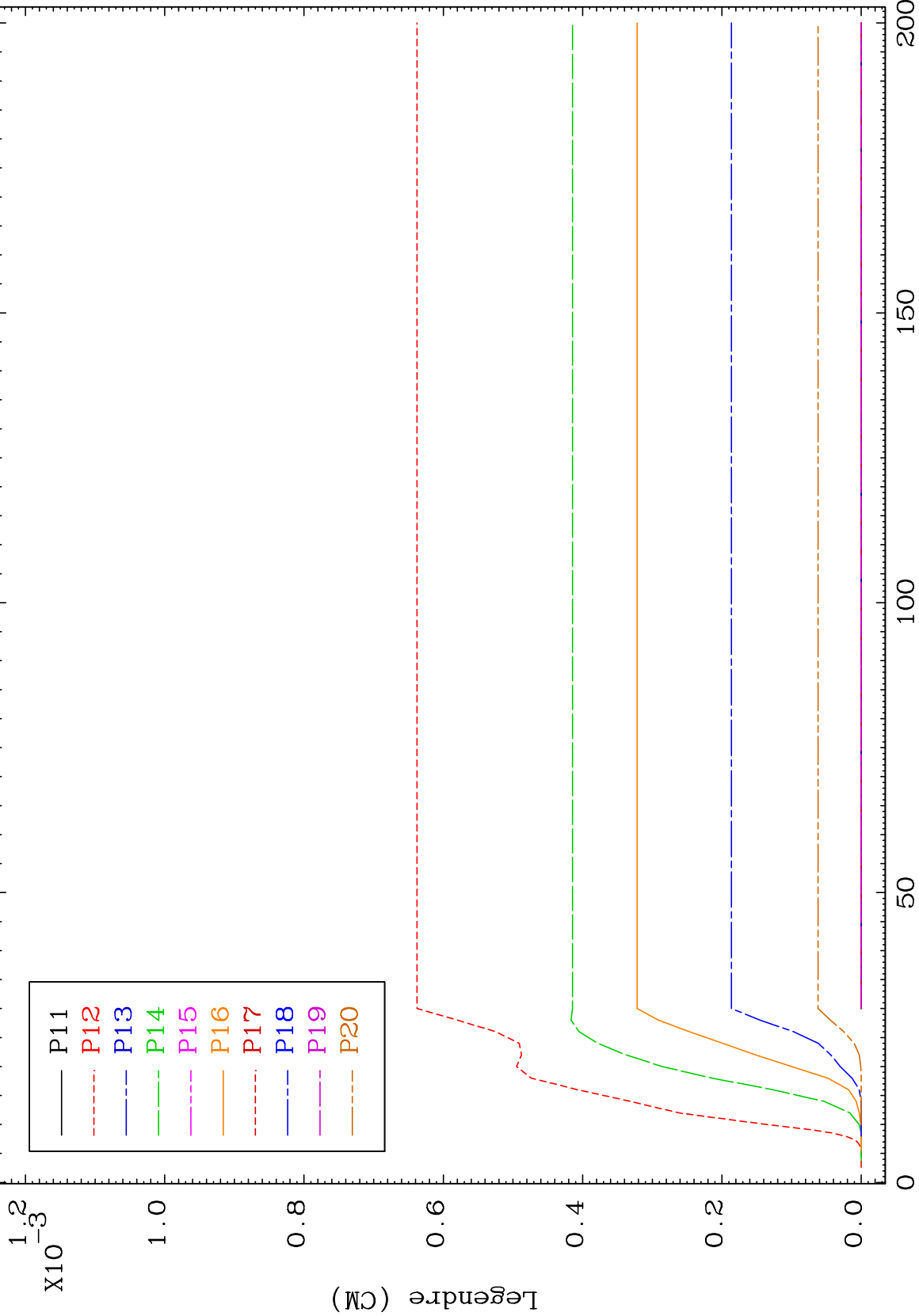




MAT 7440

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

74-W -185



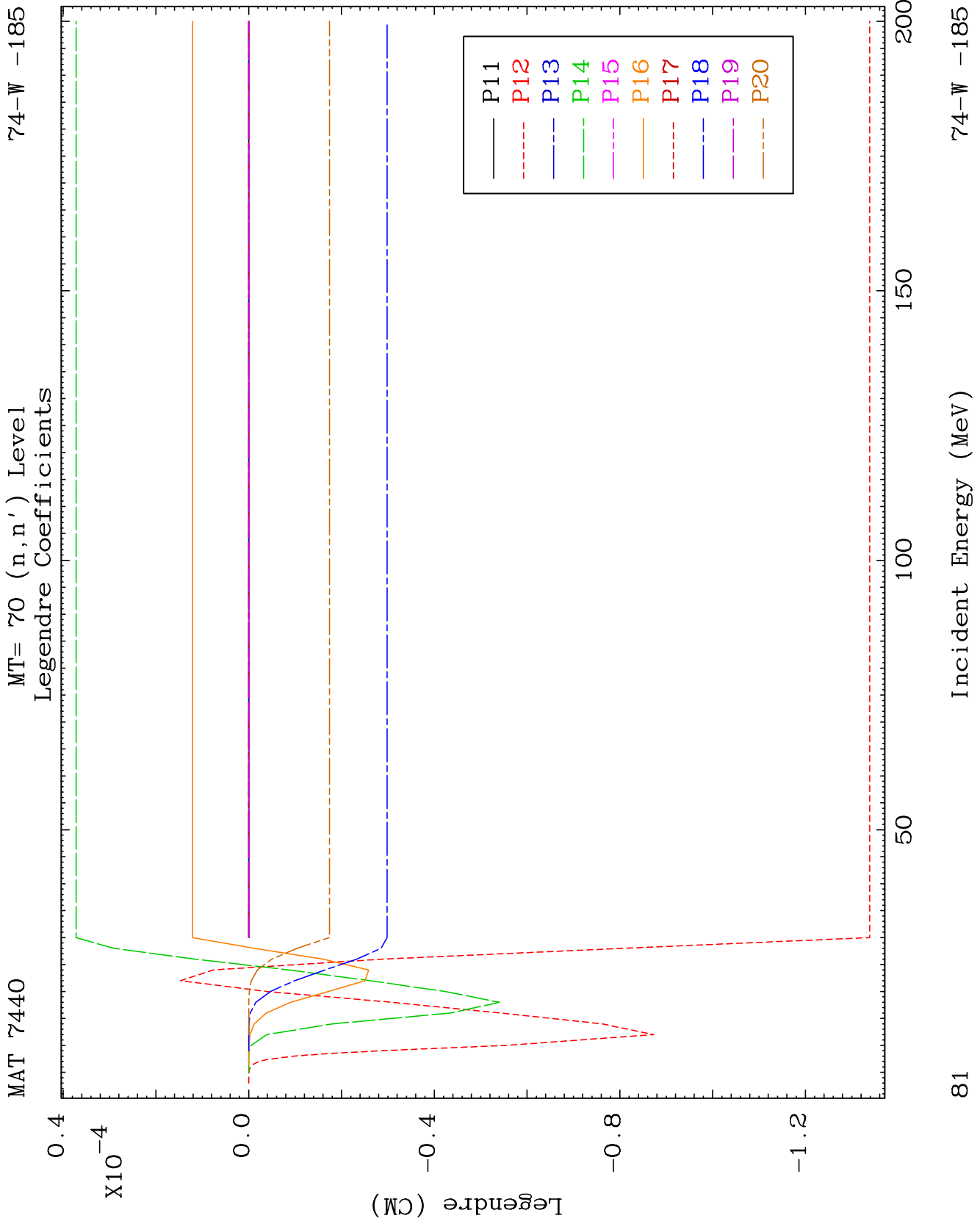
78

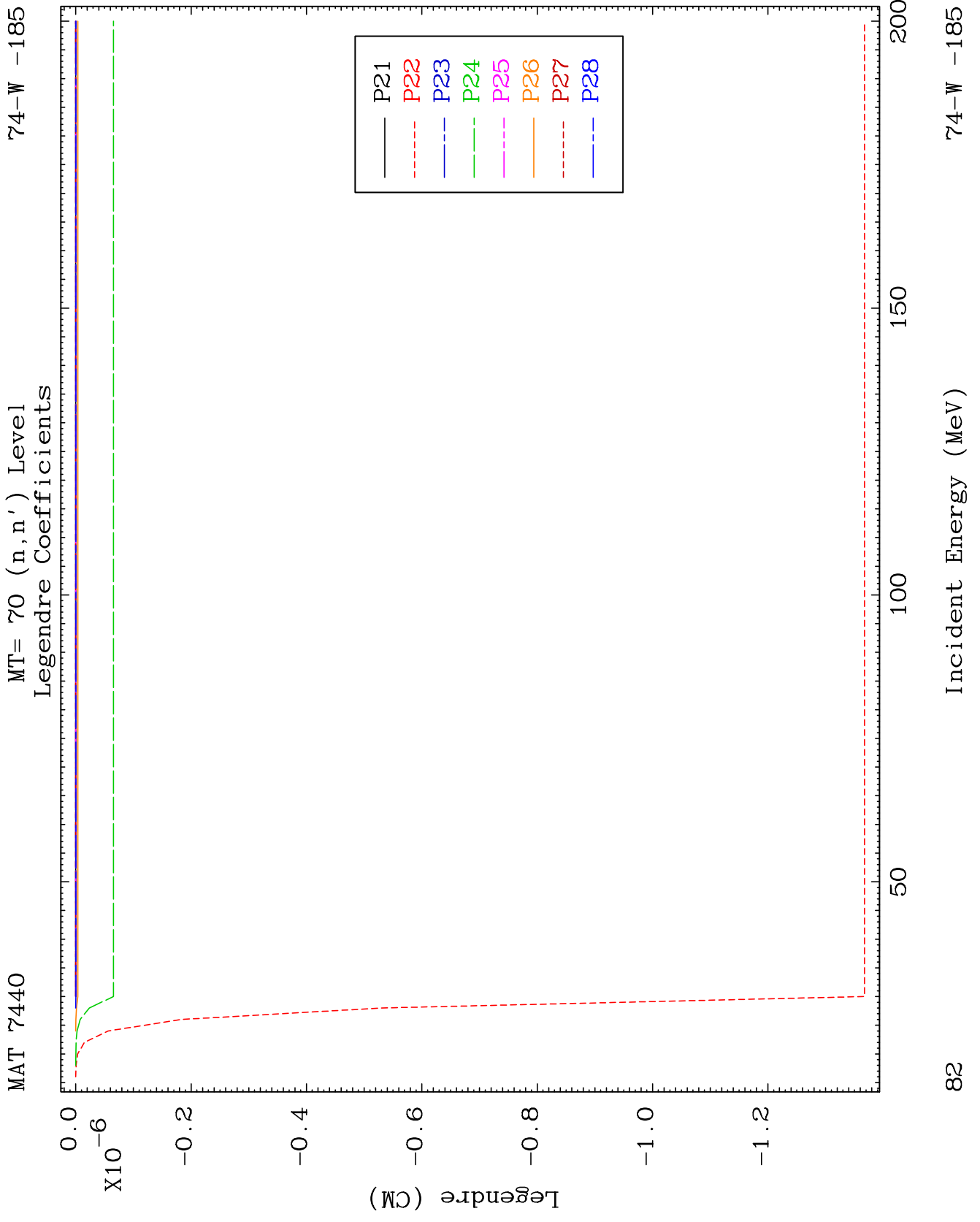
Incident Energy (MeV)

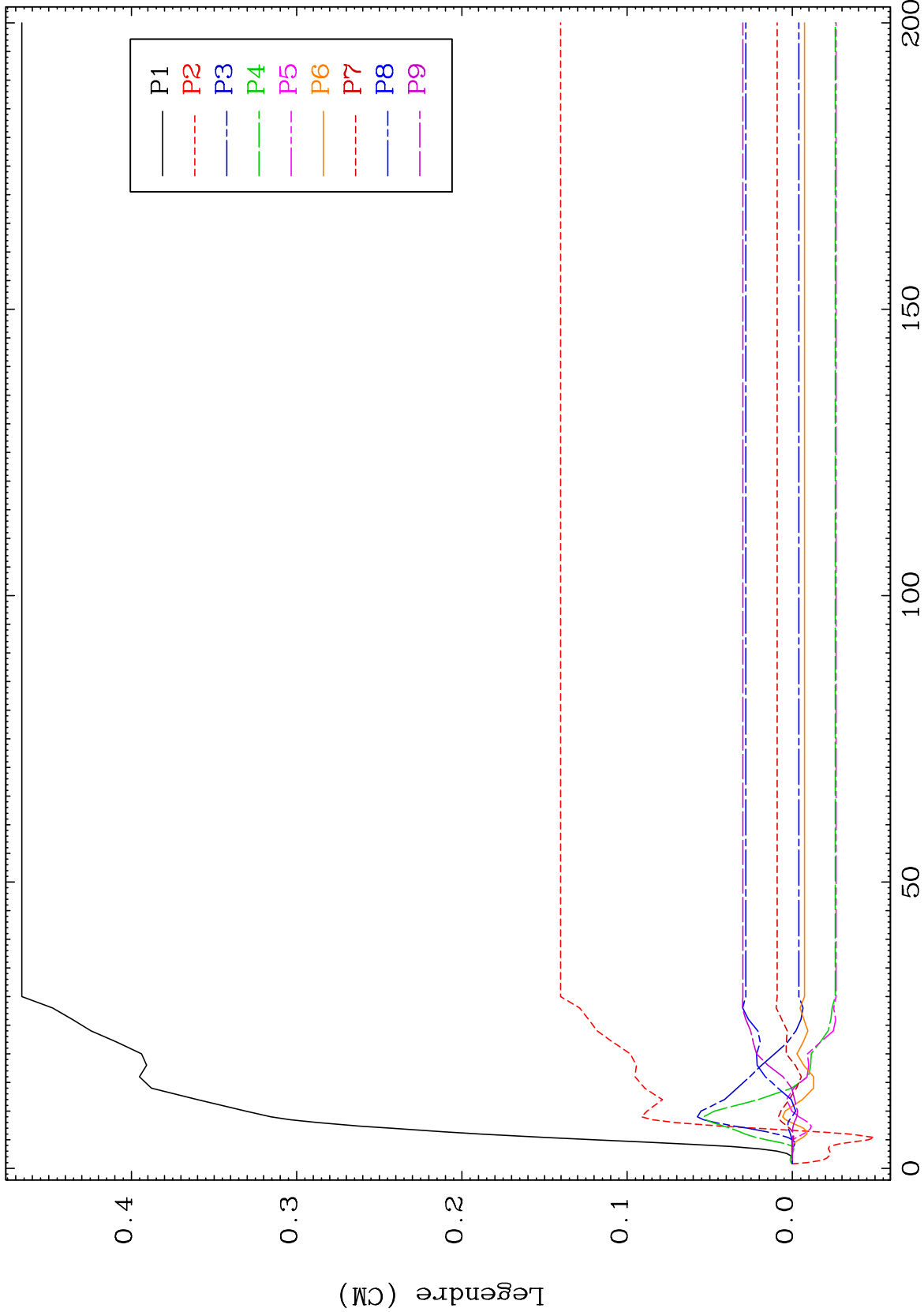
74-W -185

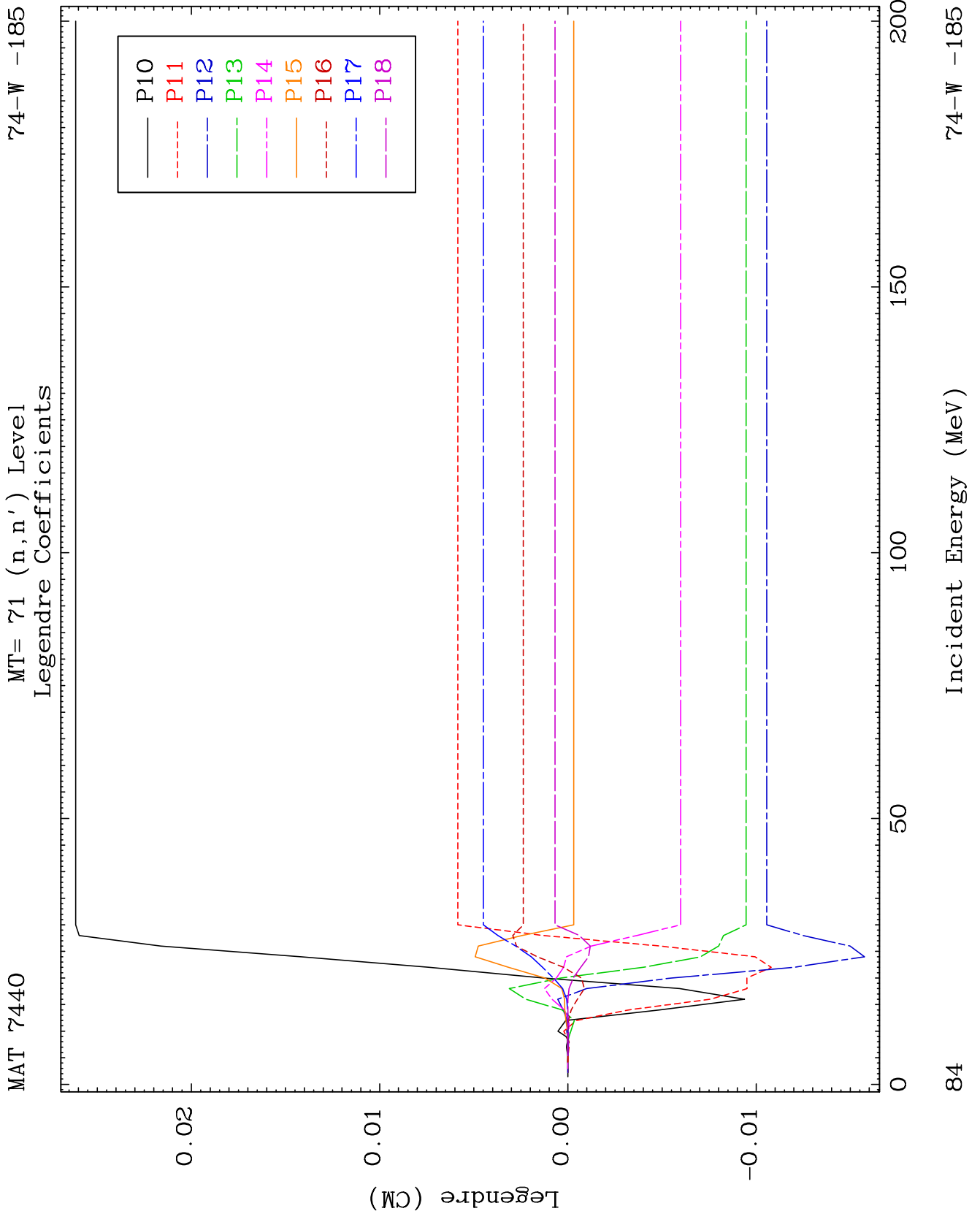








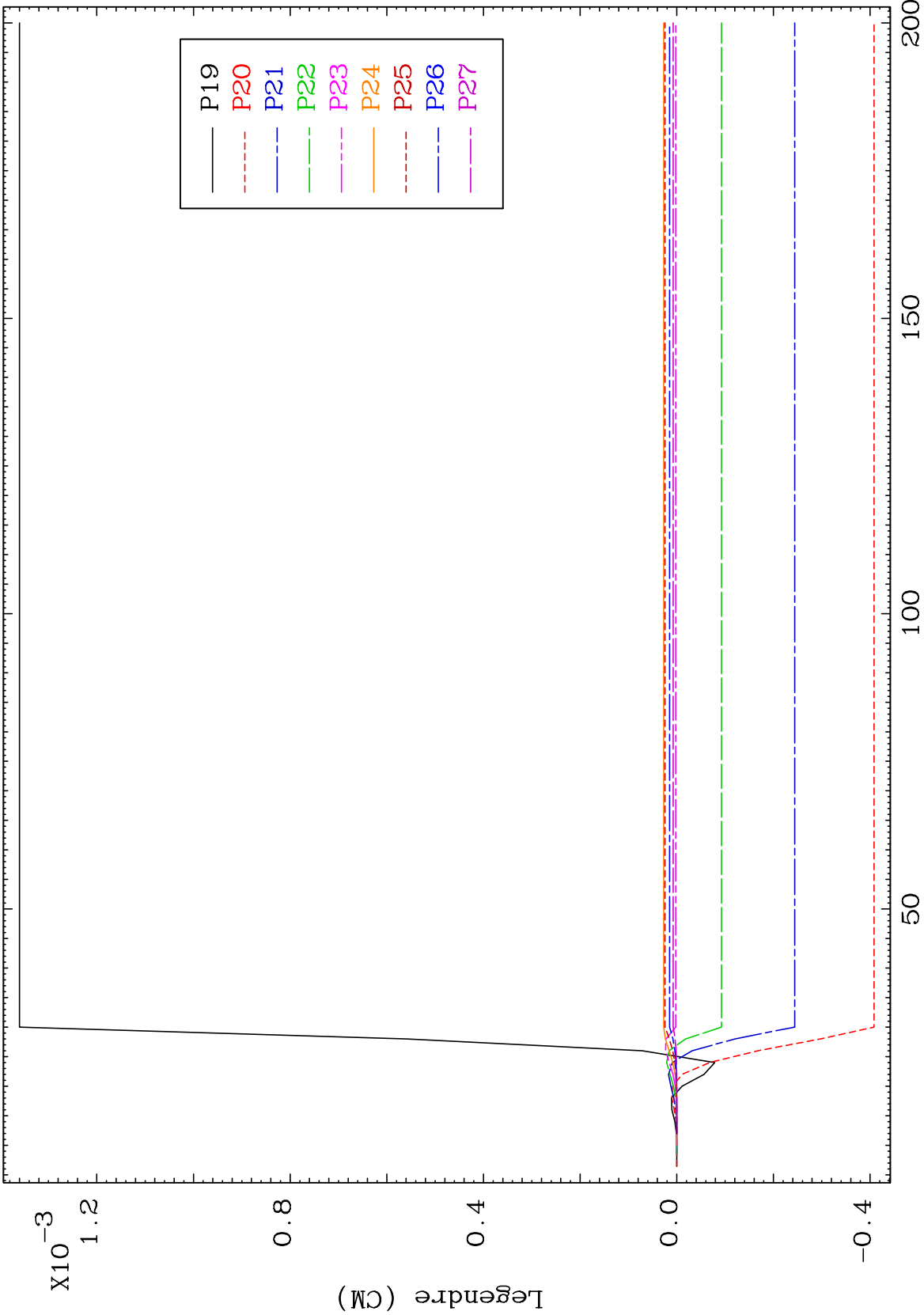




MAT 7440

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

74-W -185



85

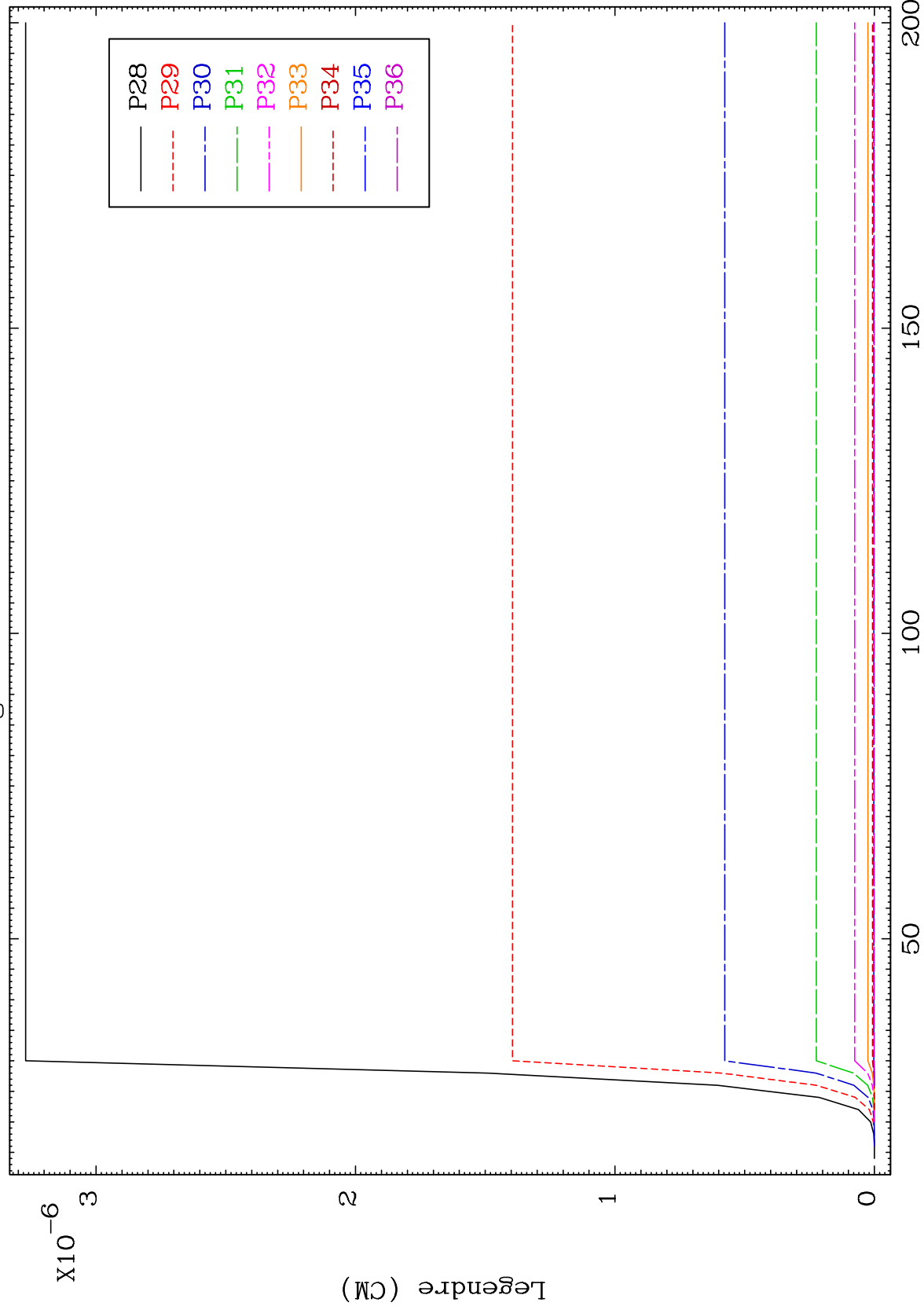
Incident Energy (MeV)

74-W -185

MAT 7440

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

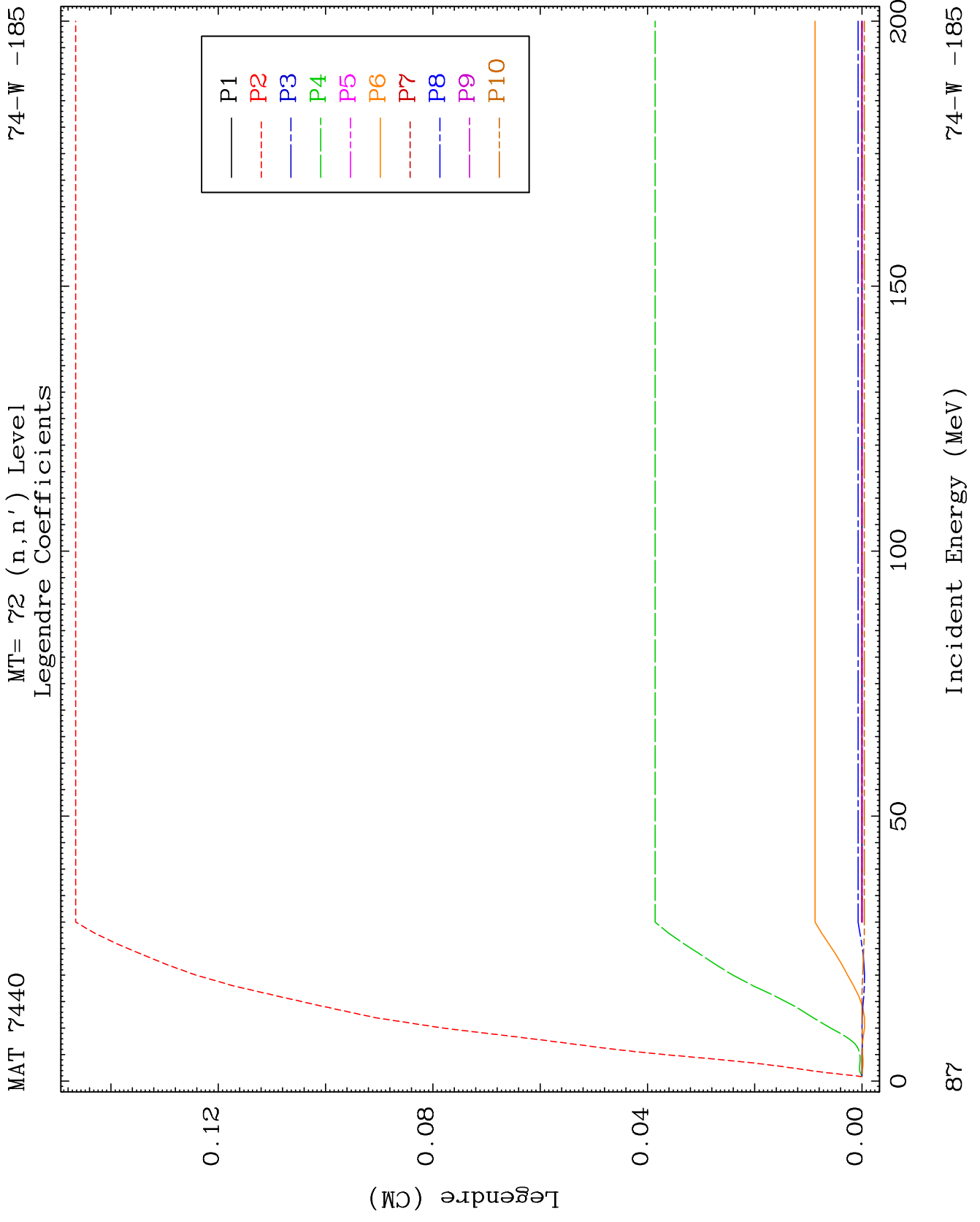
74-W -185

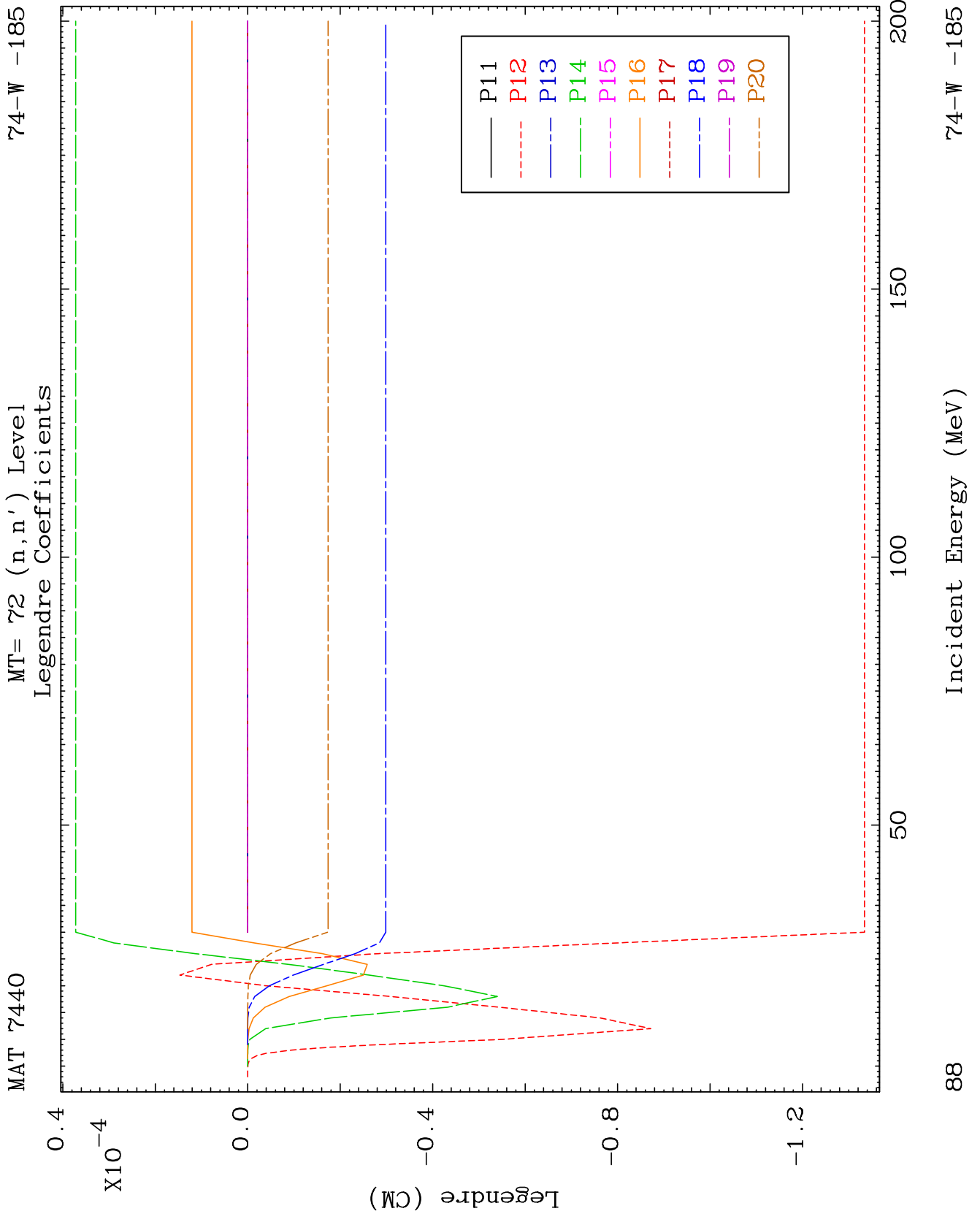


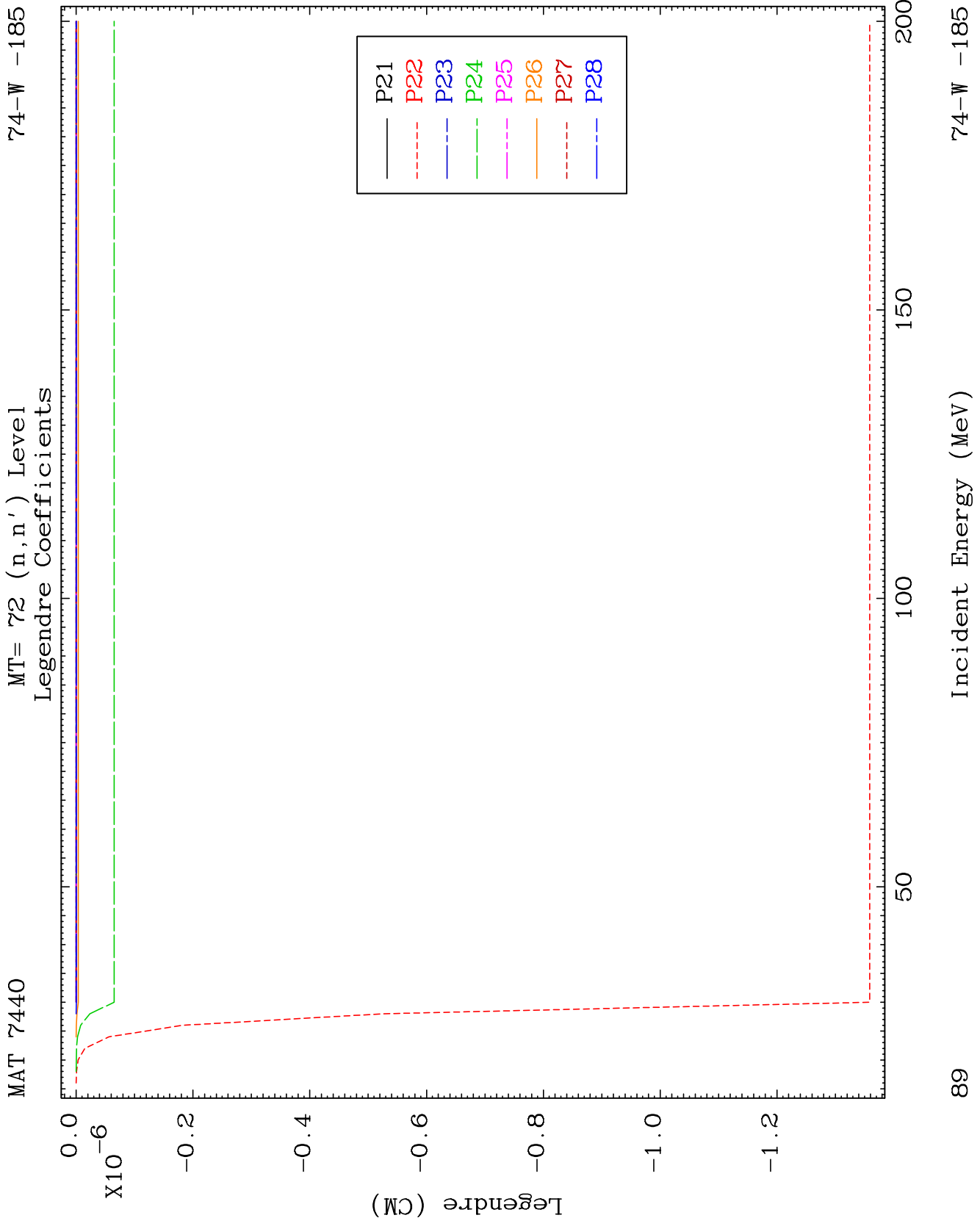
86

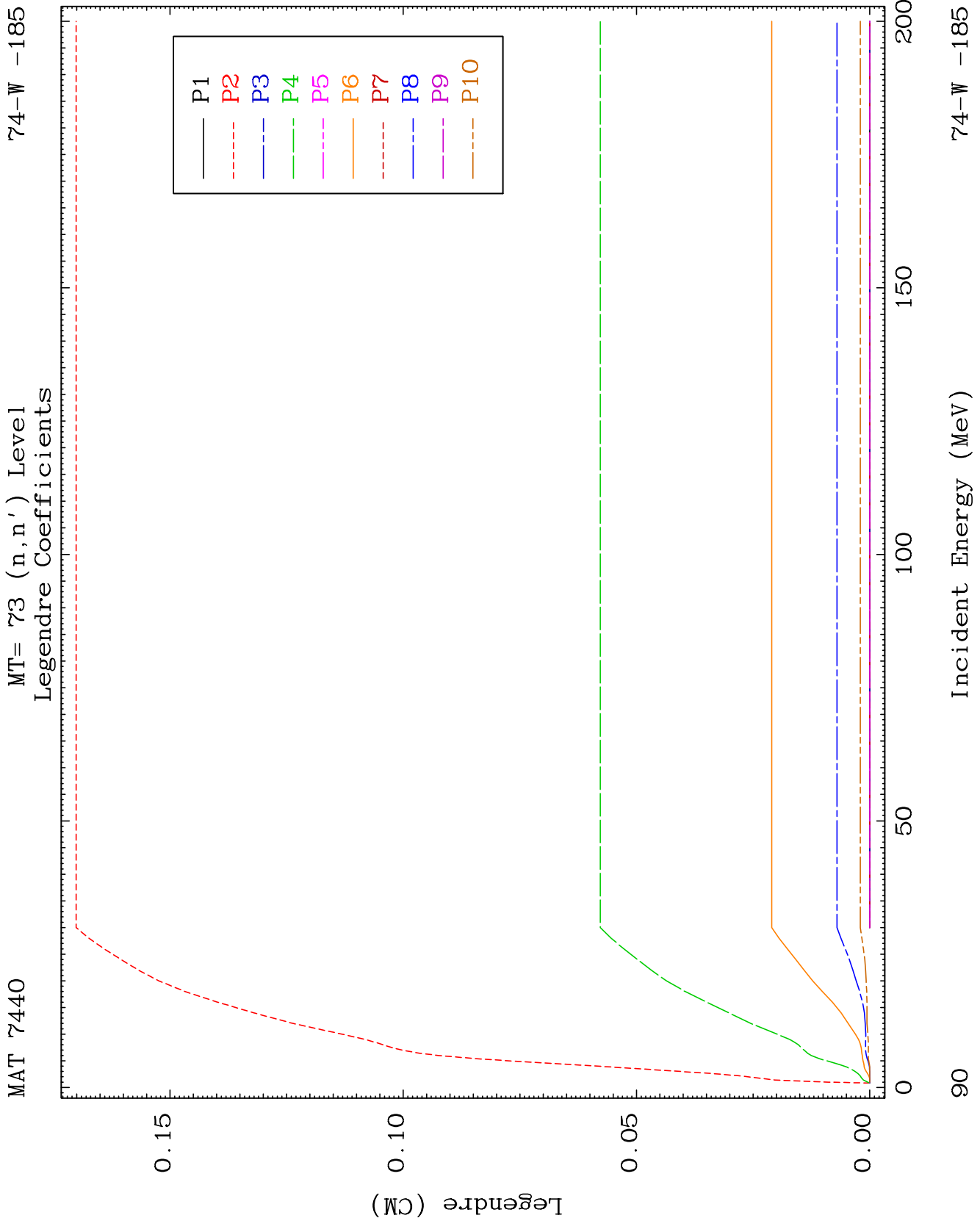
Incident Energy (MeV)

74-W -185





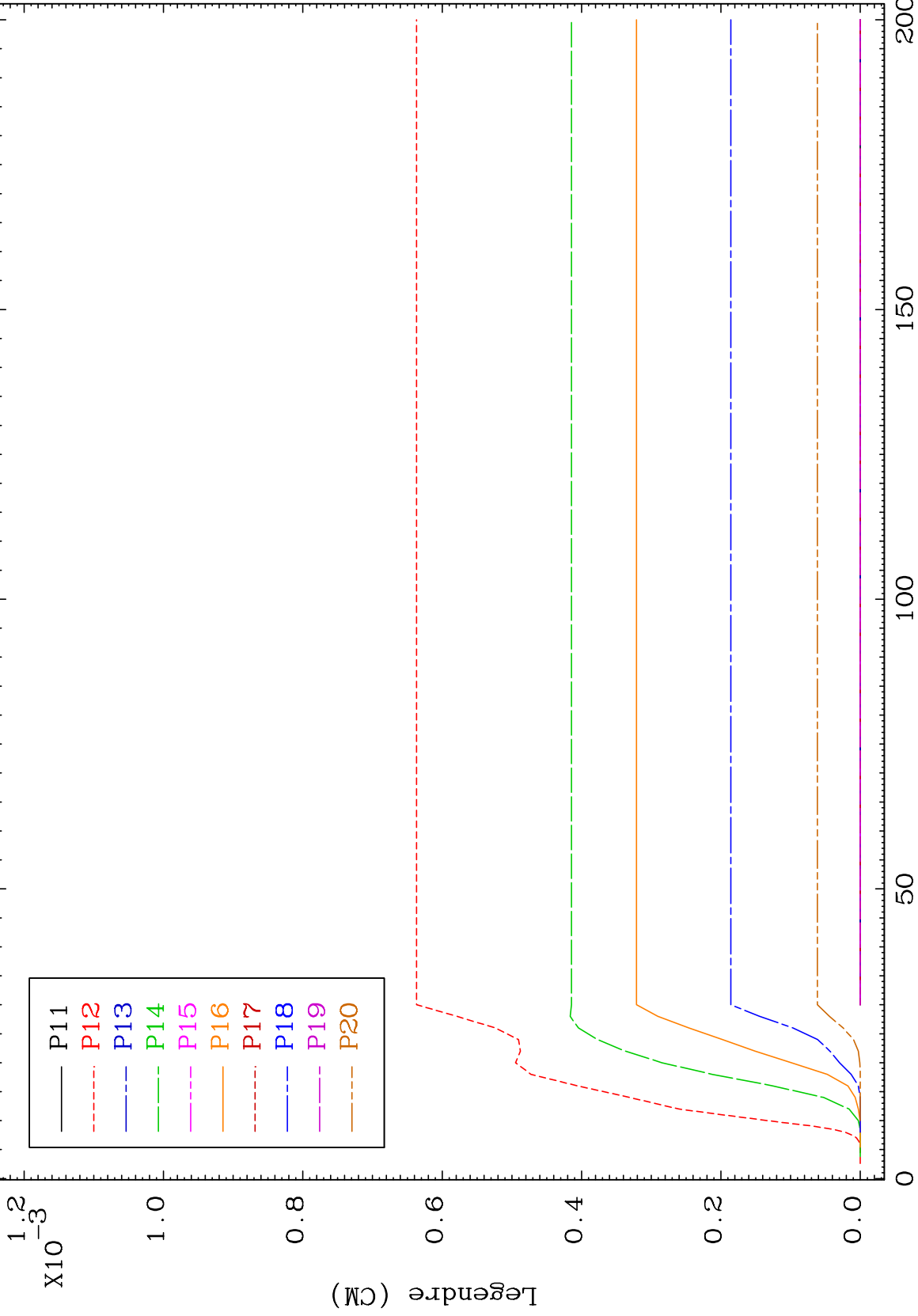




MAT 7440

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

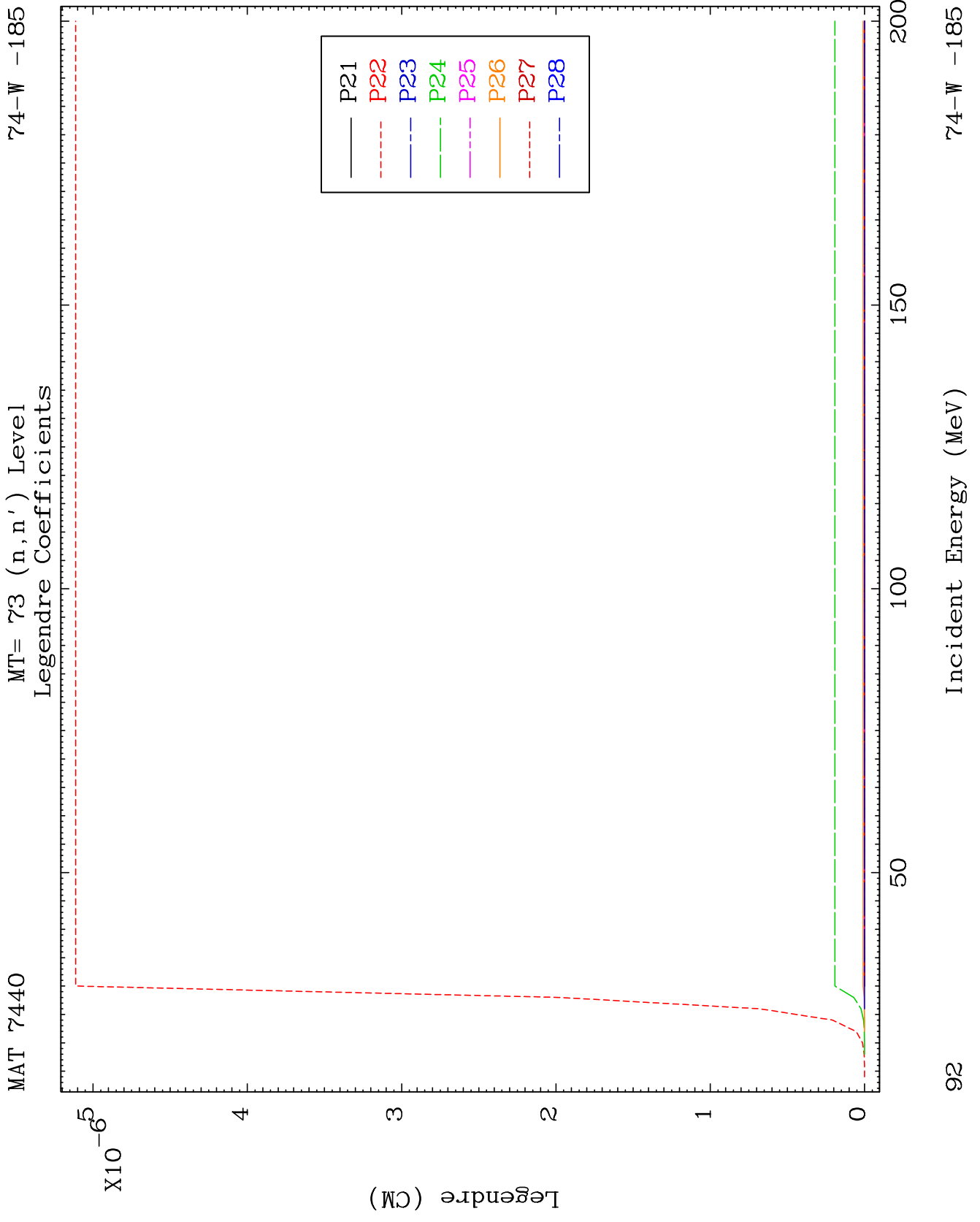
74-W -185



91

Incident Energy (MeV)

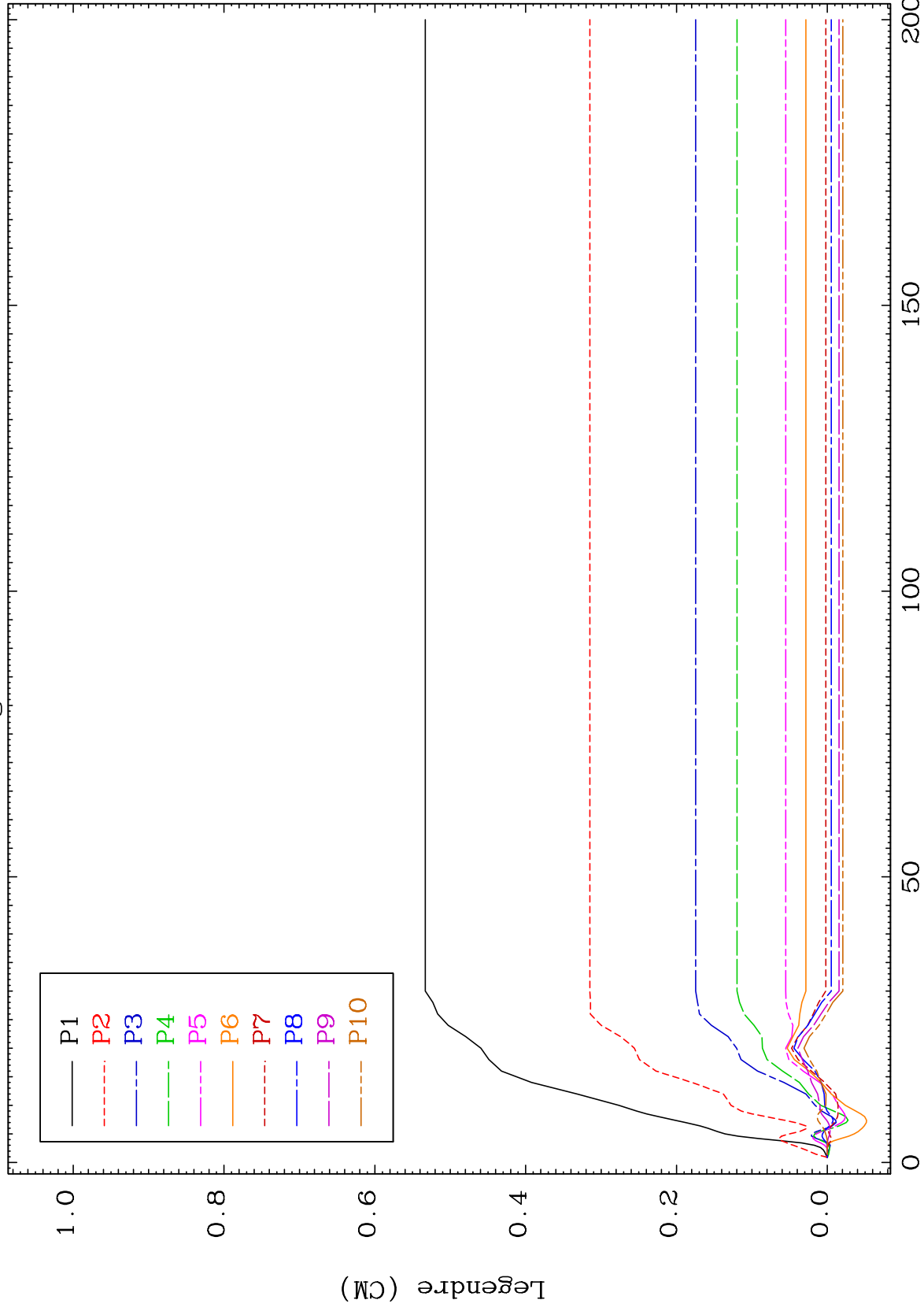
74-W -185



MAT 7440

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

74-W -185



93

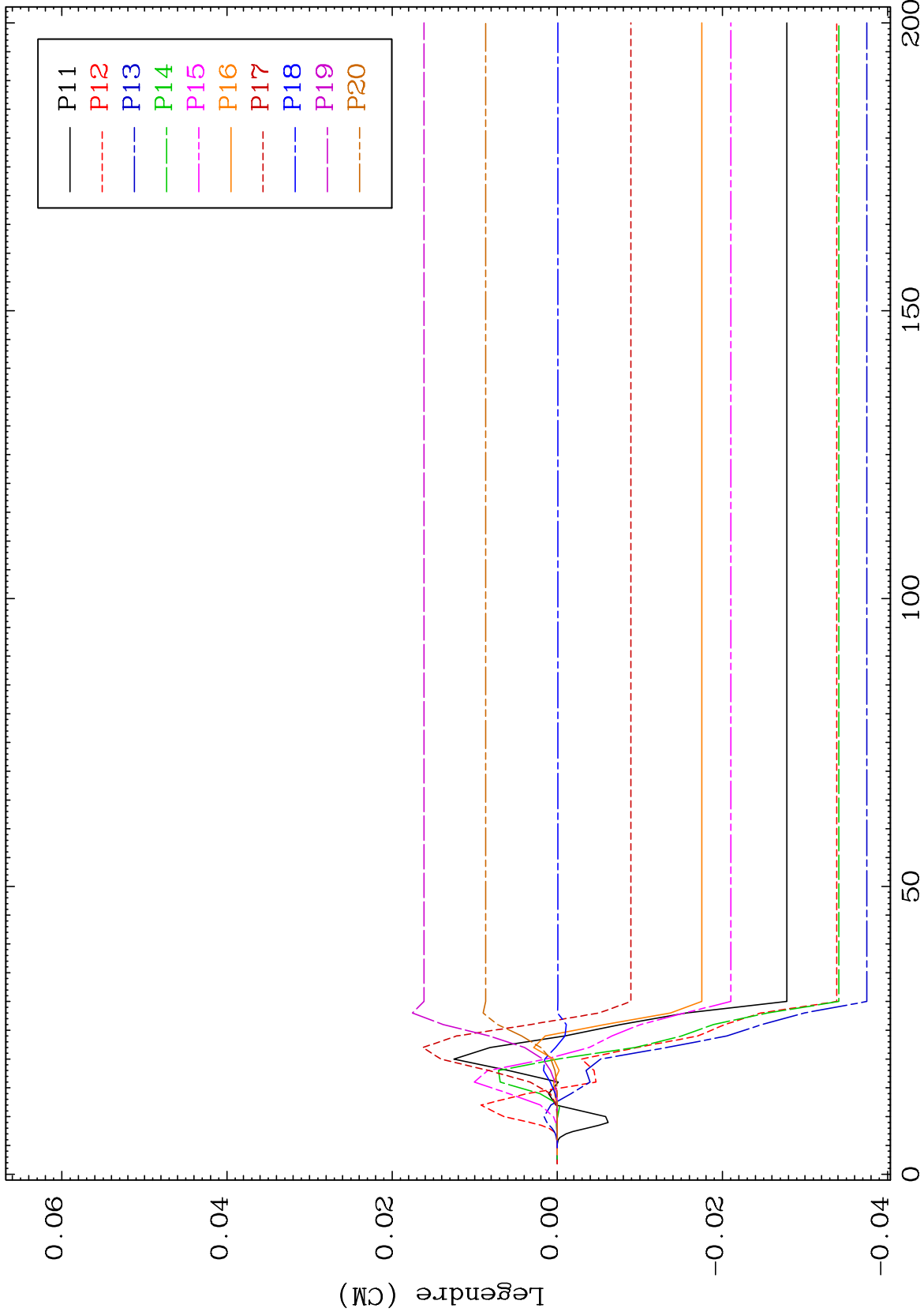
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



94

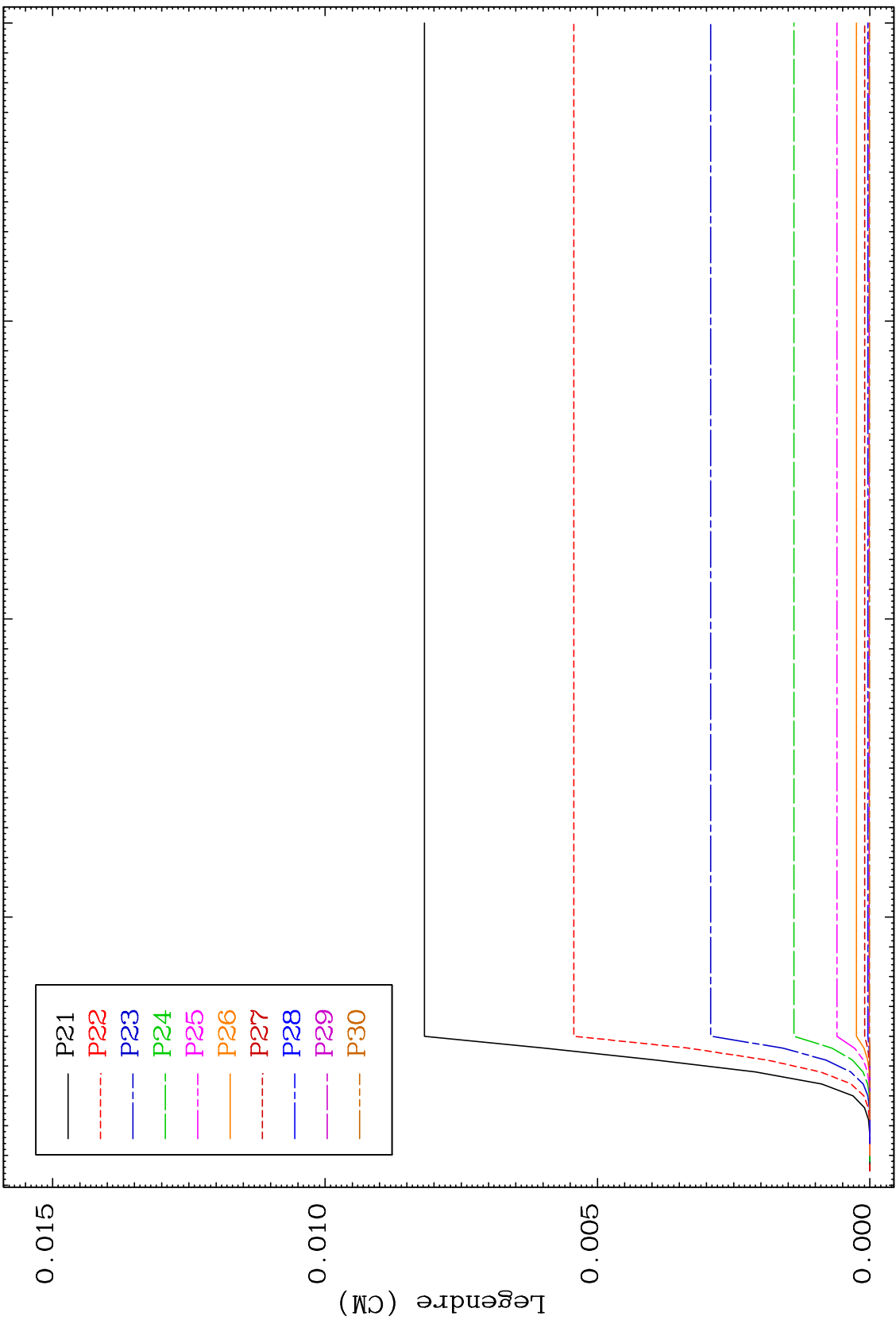
Incident Energy (MeV)

74-W -185

MAT 7440

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

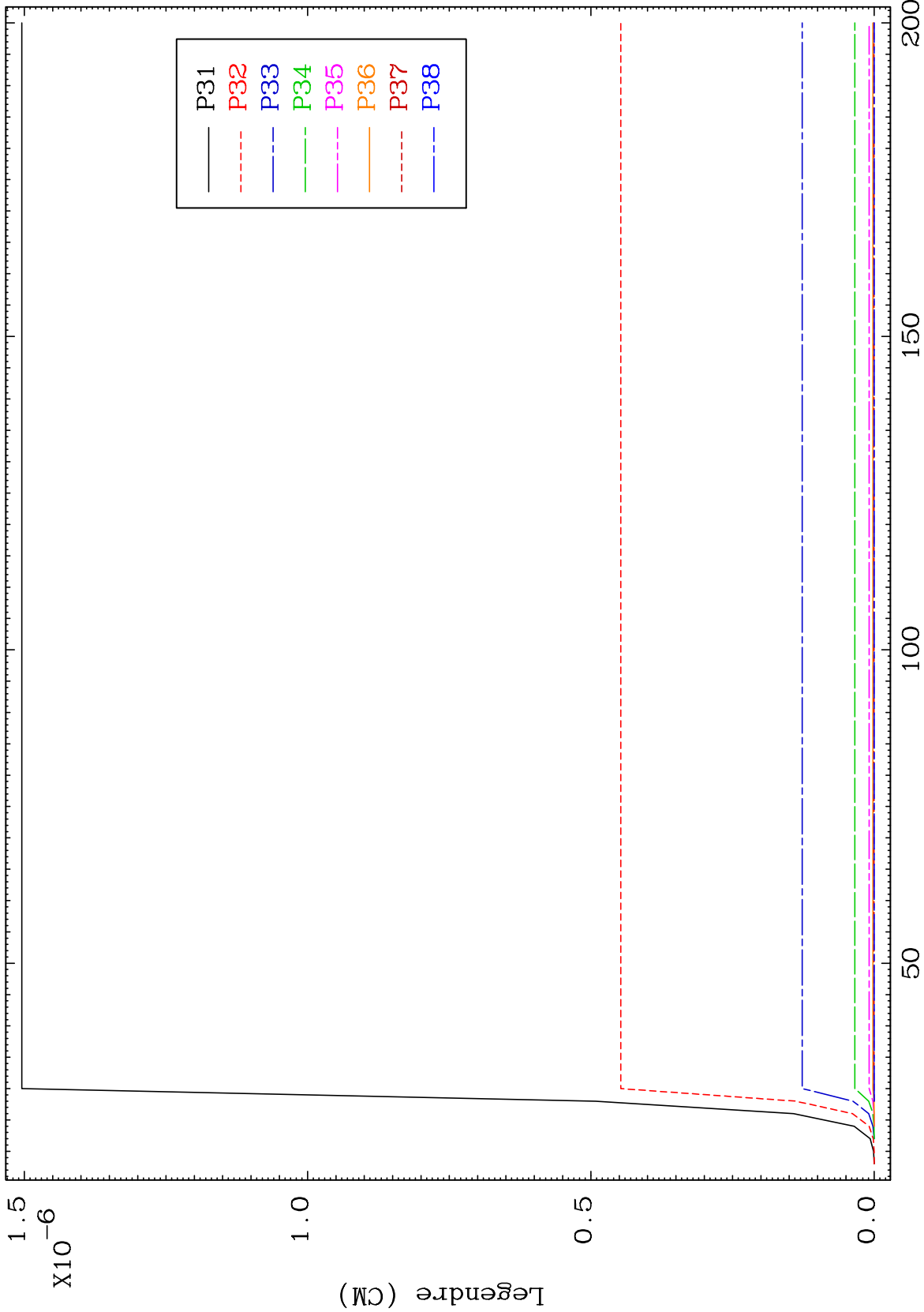
74-W -185

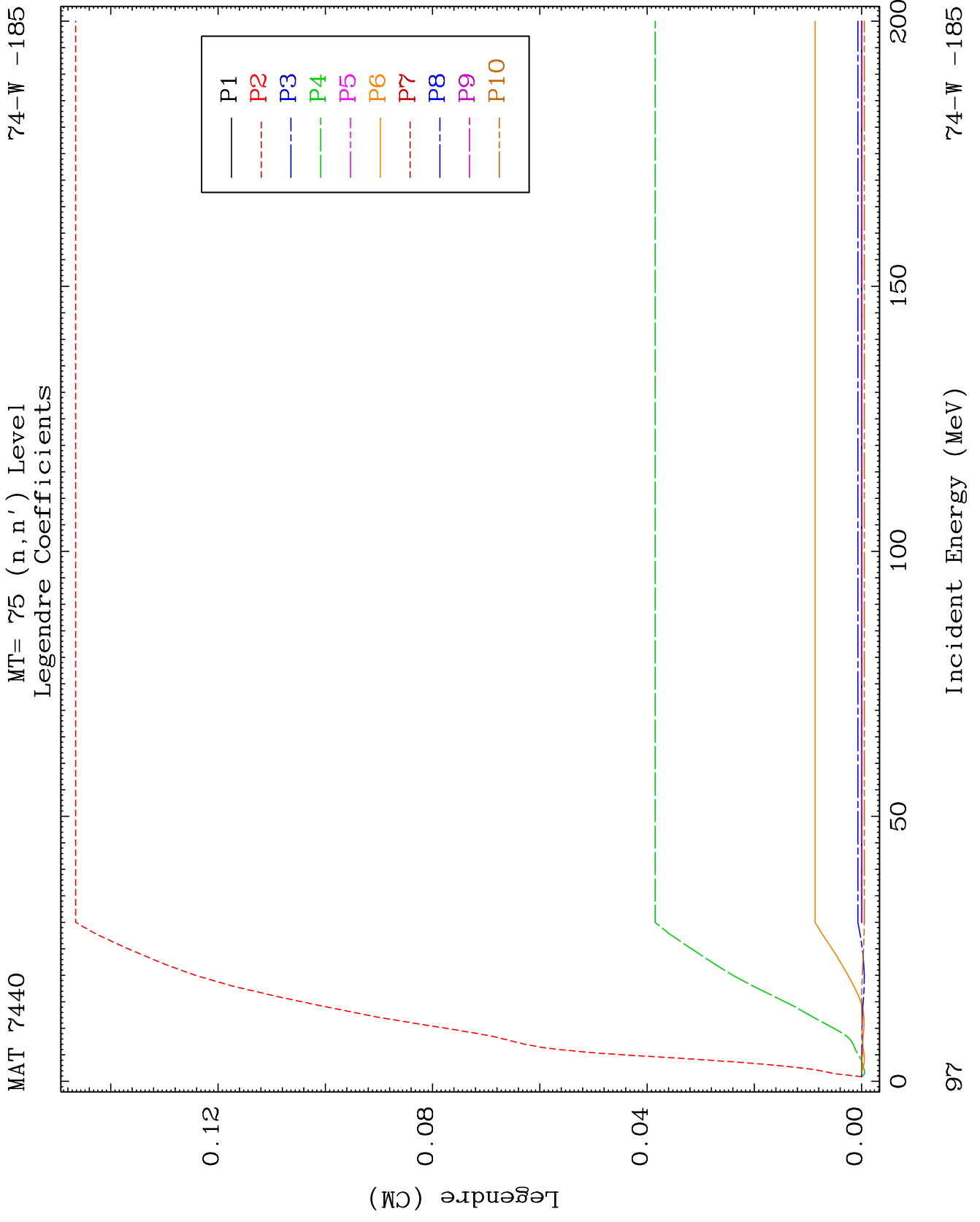


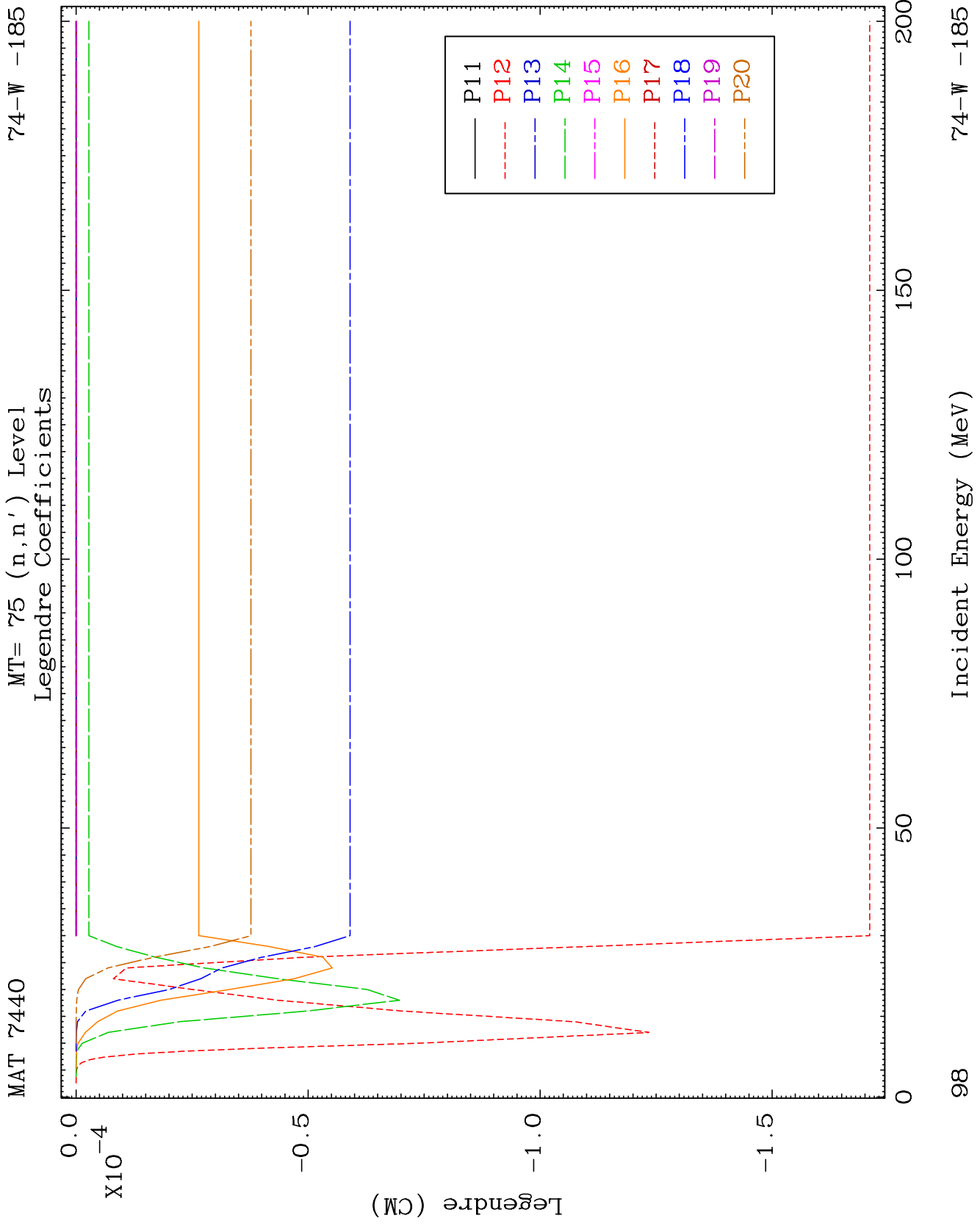
95

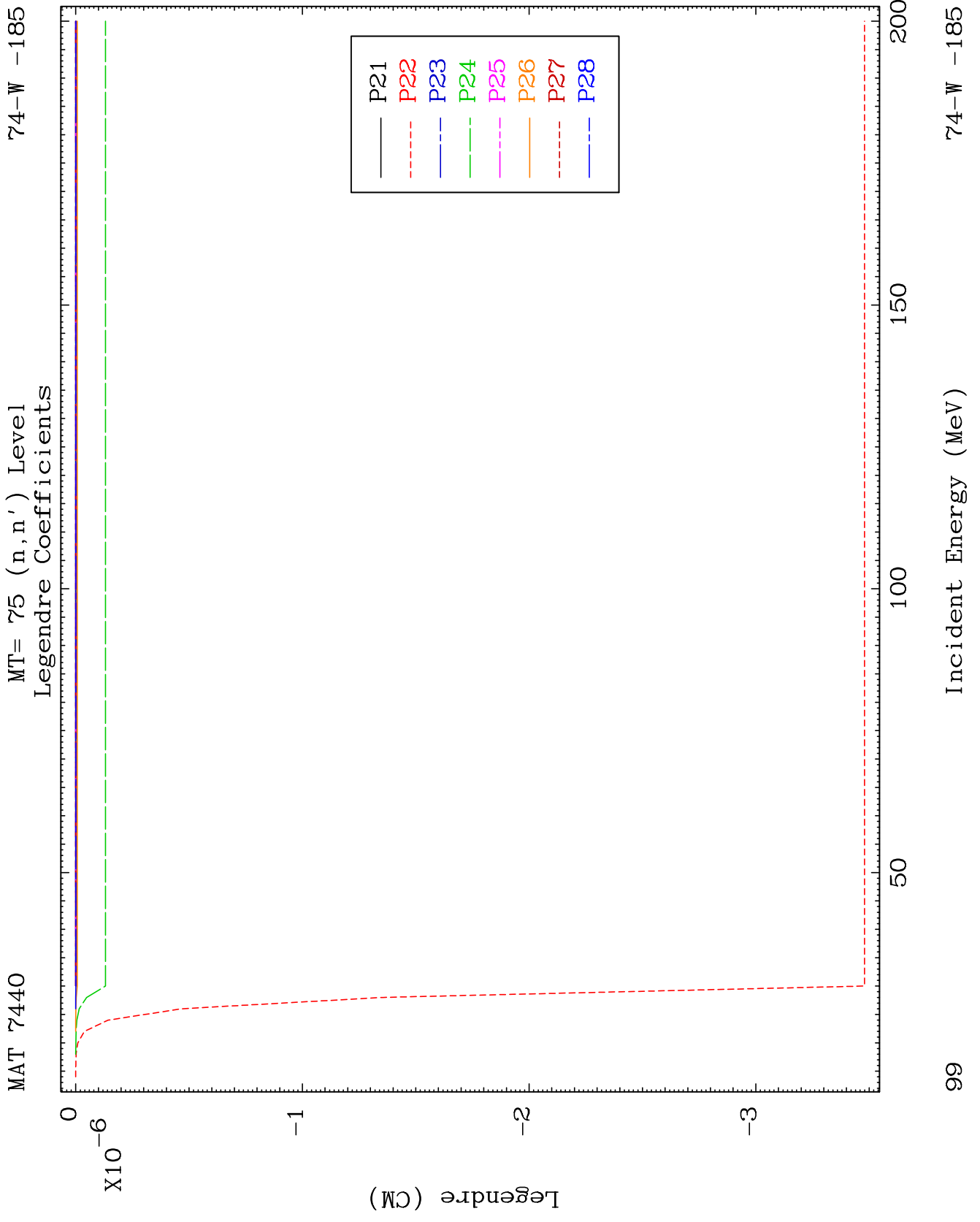
Incident Energy (MeV)

74-W -185





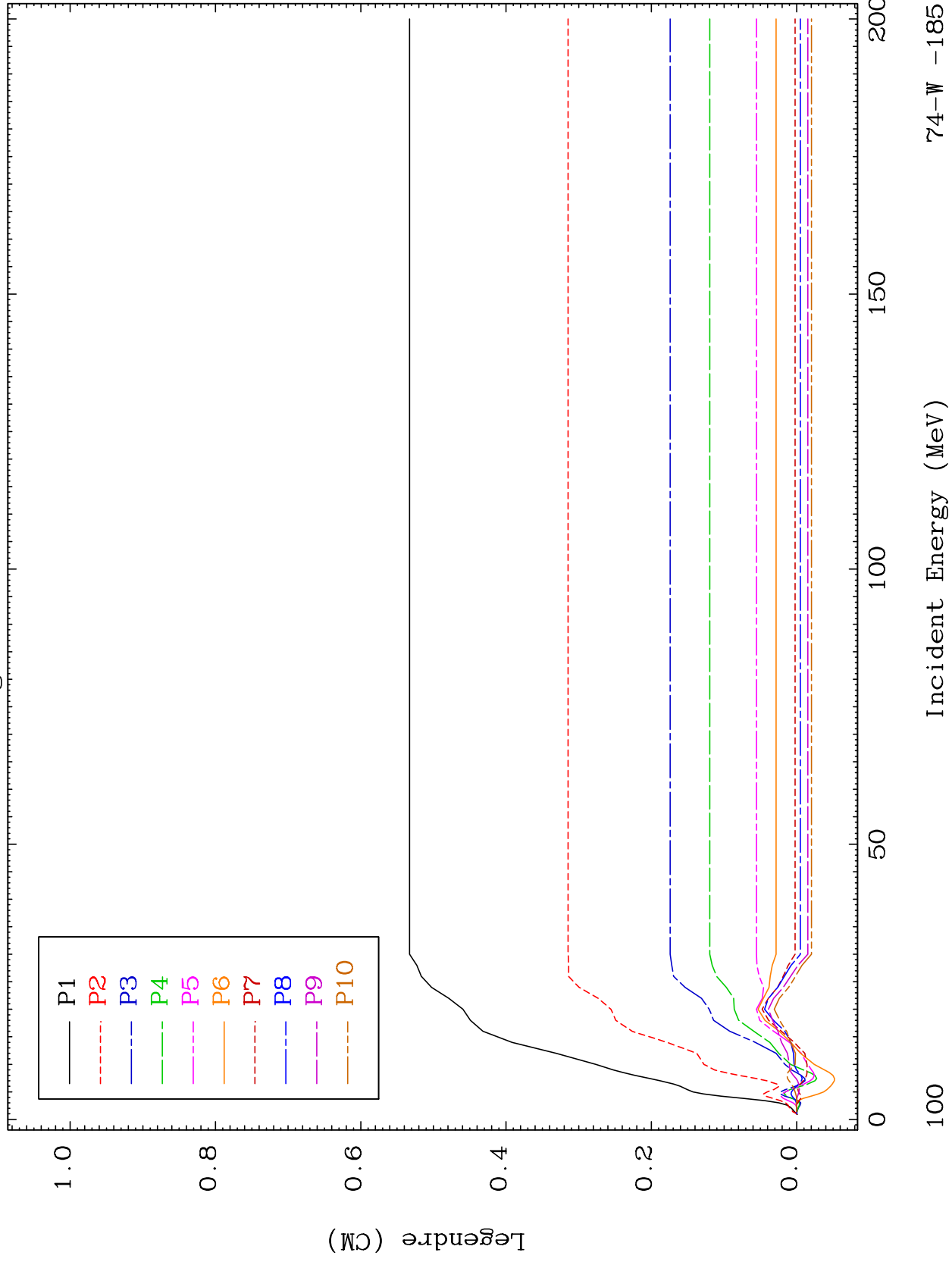




MAT 7440

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

74-W -185



74-W -185

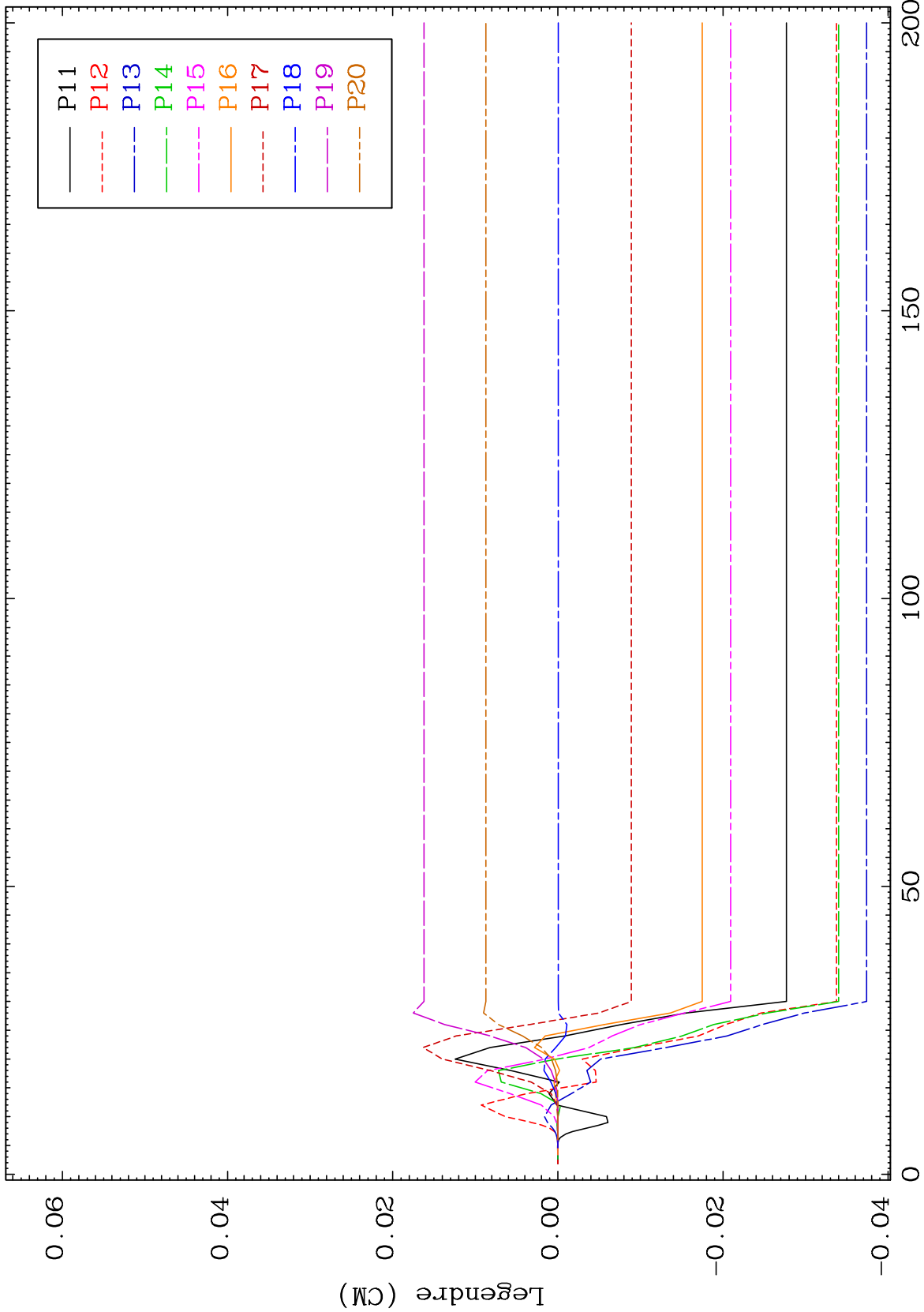
Incident Energy (MeV)

100

MAT 7440

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

74-W -185



101

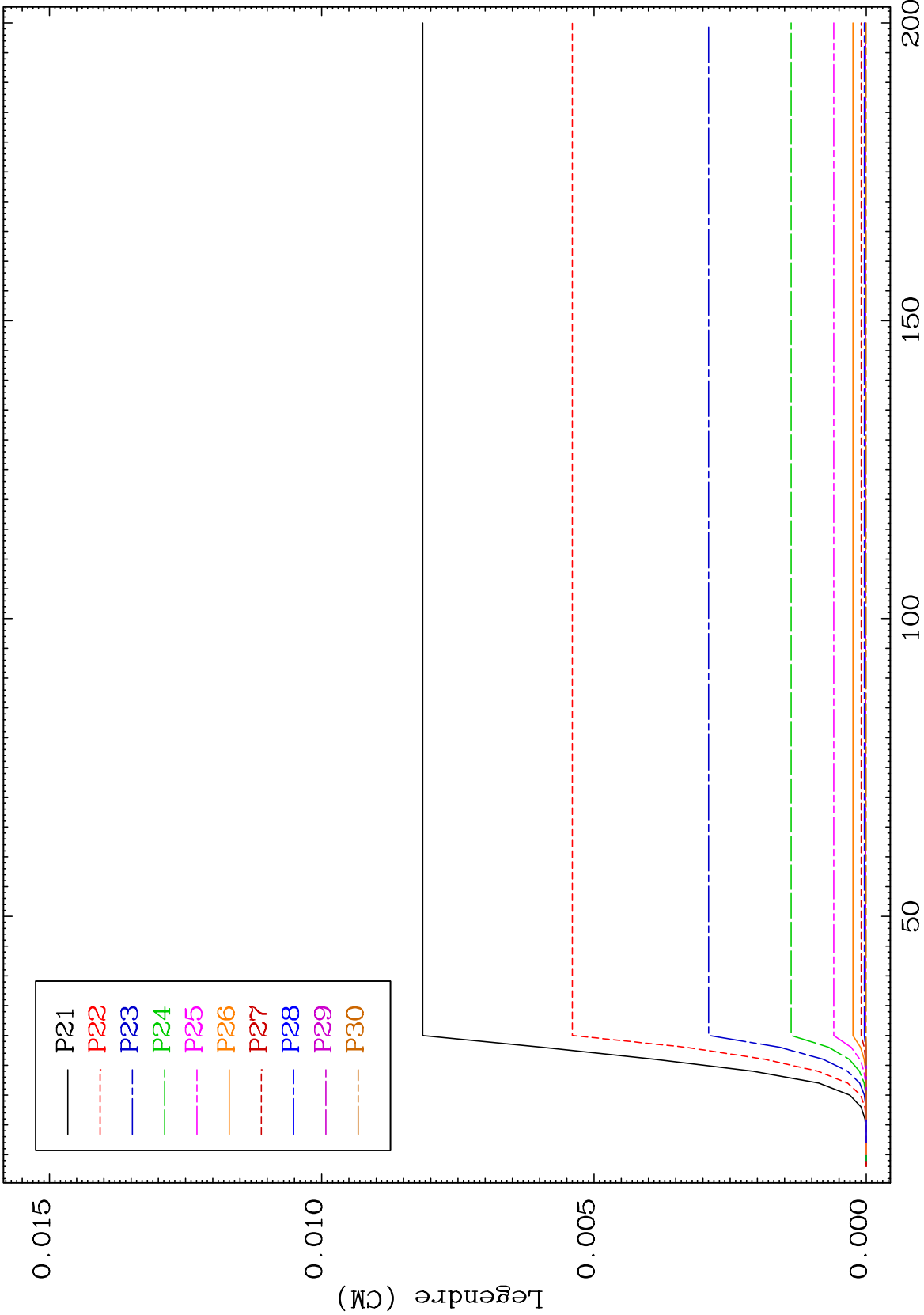
Incident Energy (MeV)

74-W -185

MAT 7440

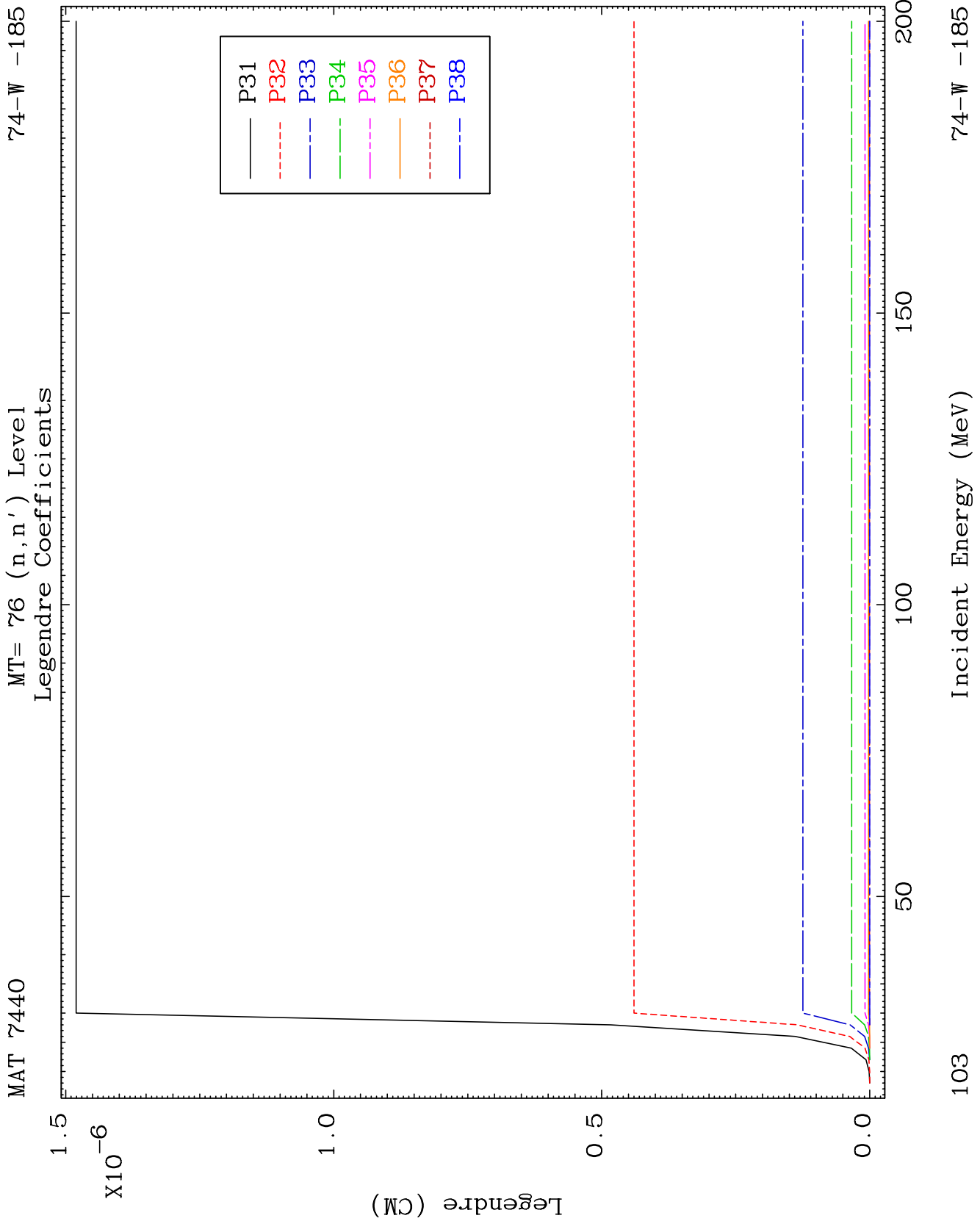
MT= 76 (n,n') Level  
Legendre Coefficients

74-W -185



102

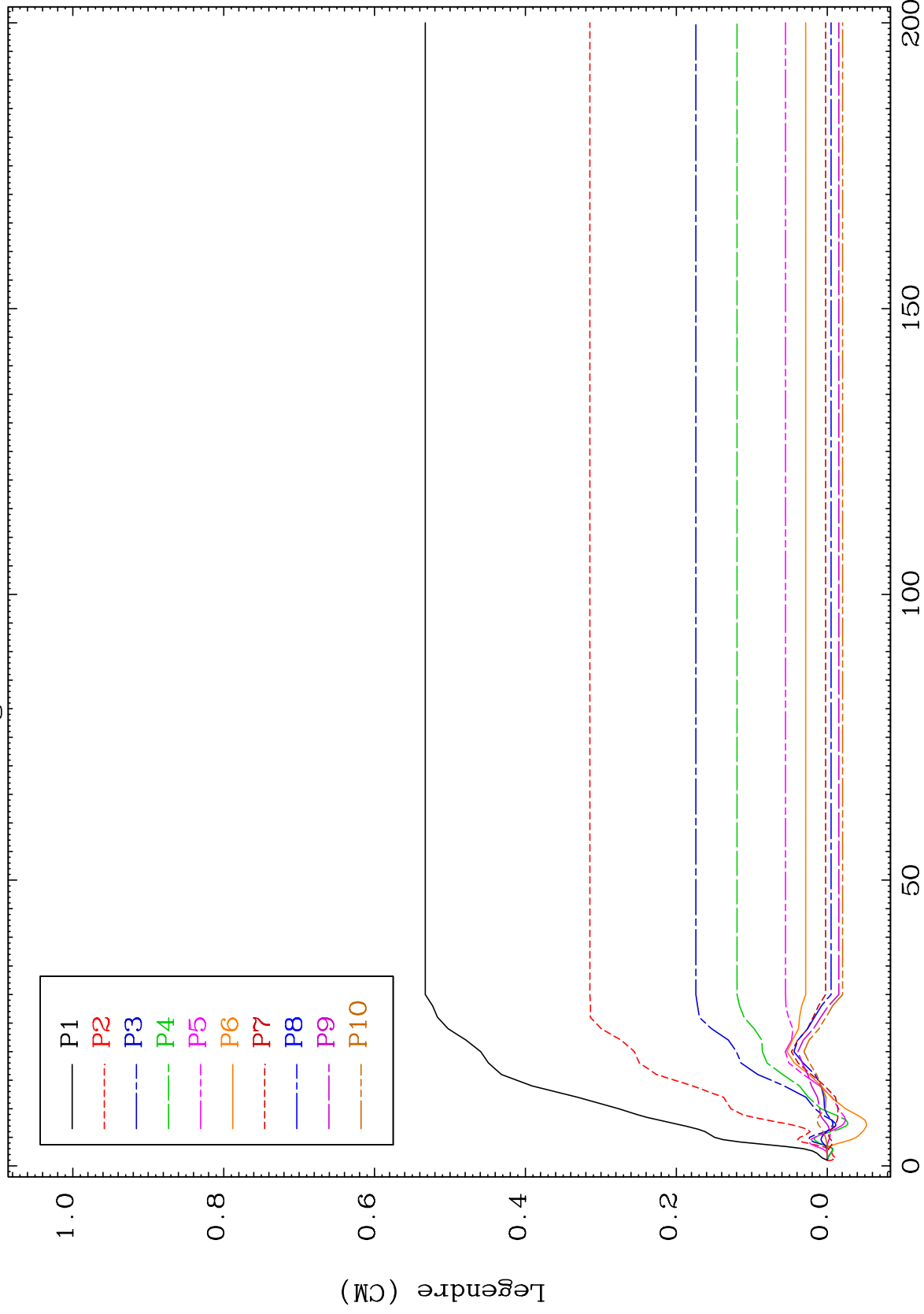
74-W -185



MAT 7440

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

74-W -185



104

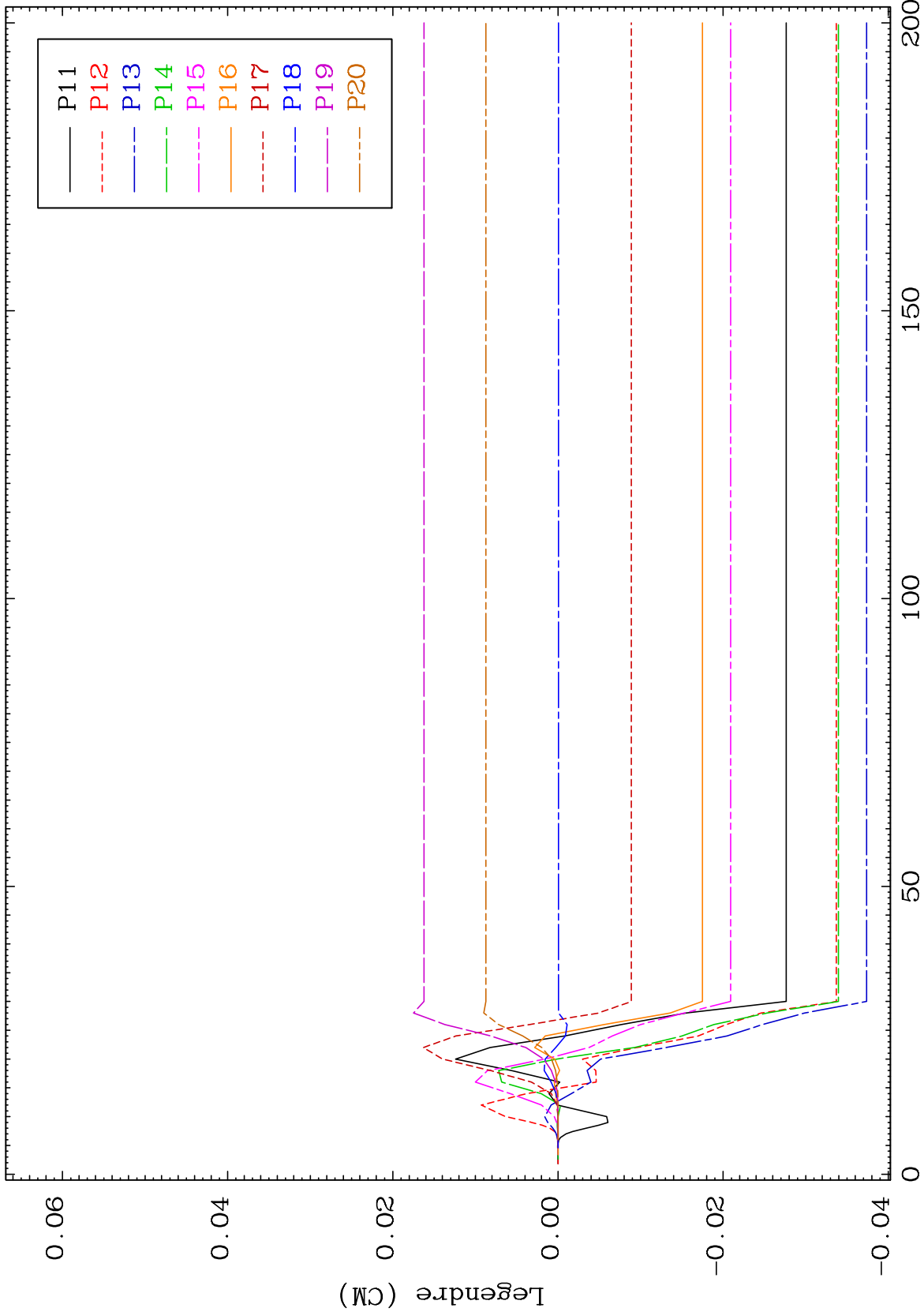
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



105

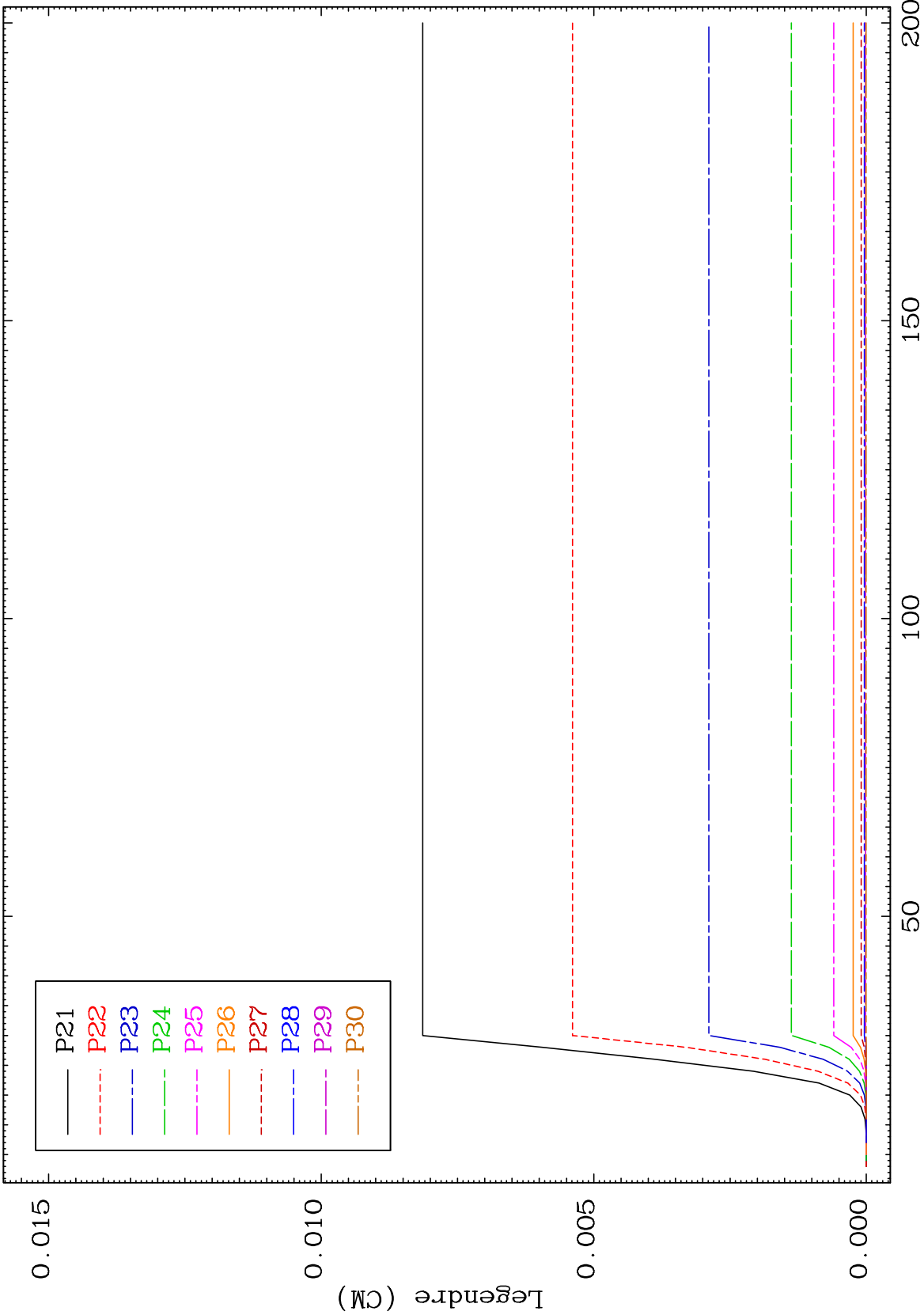
Incident Energy (MeV)

74-W -185

MAT 7440

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

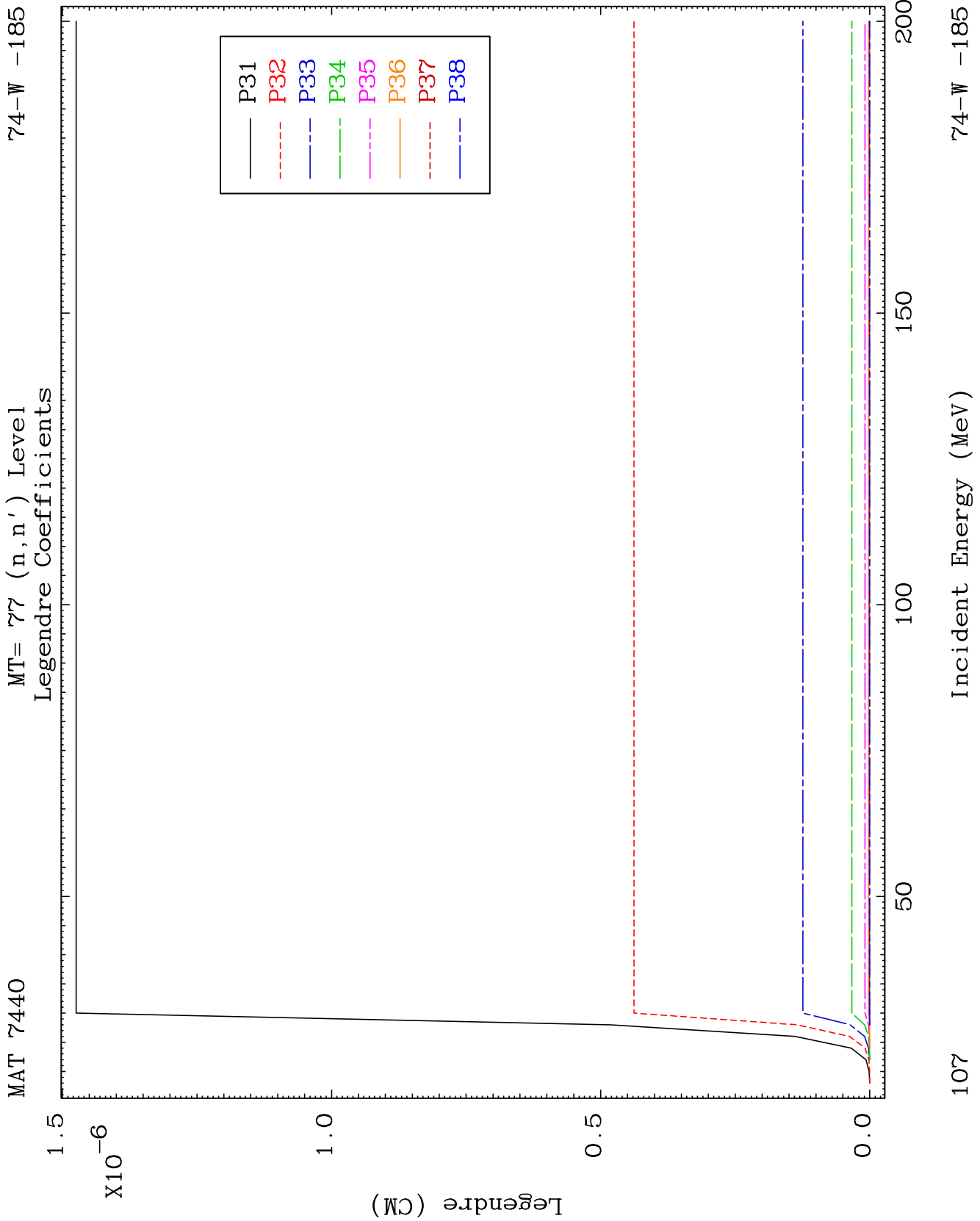
74-W -185



106

Incident Energy (MeV)

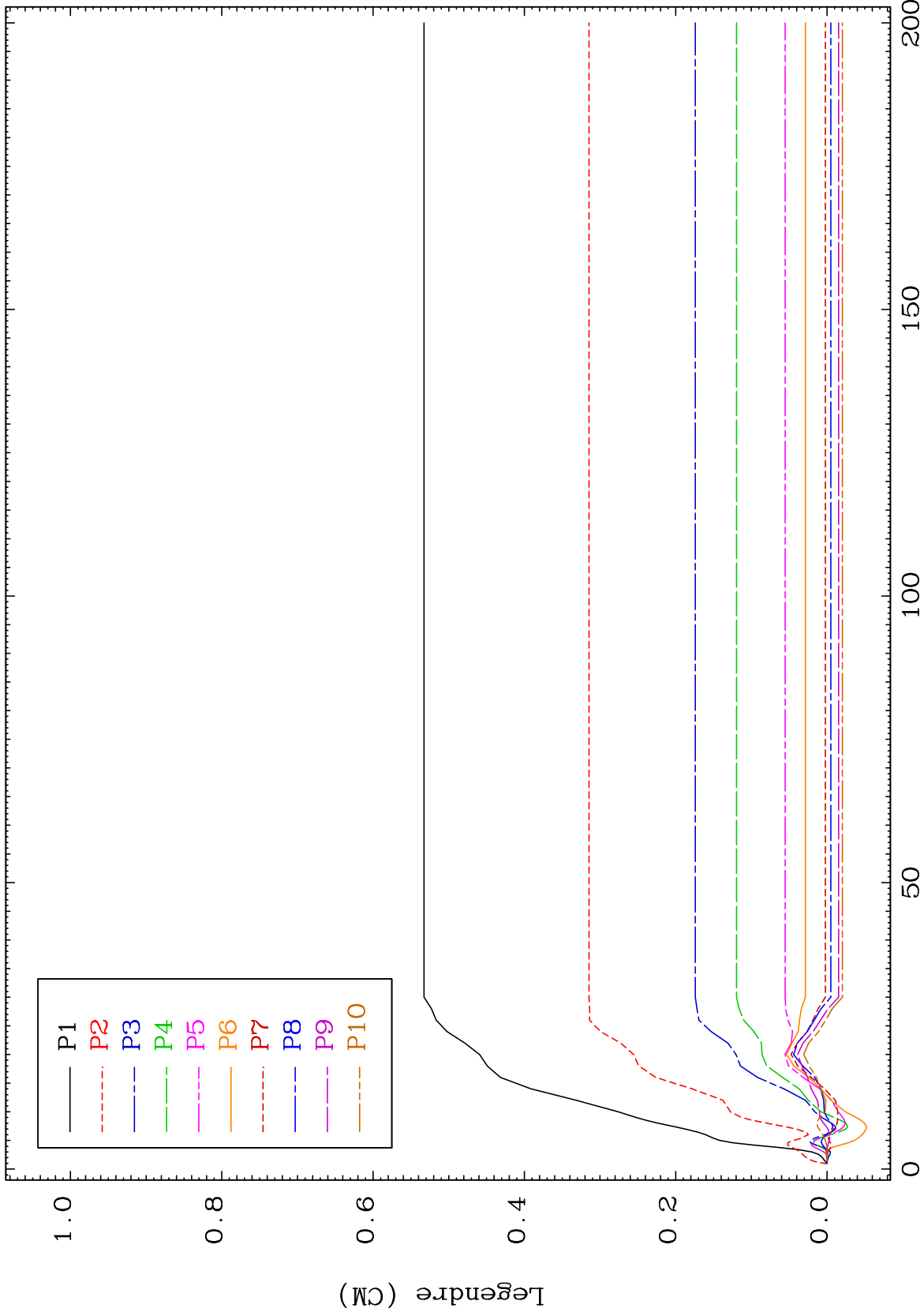
74-W -185



MAT 7440

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

74-W -185



Incident Energy (MeV)

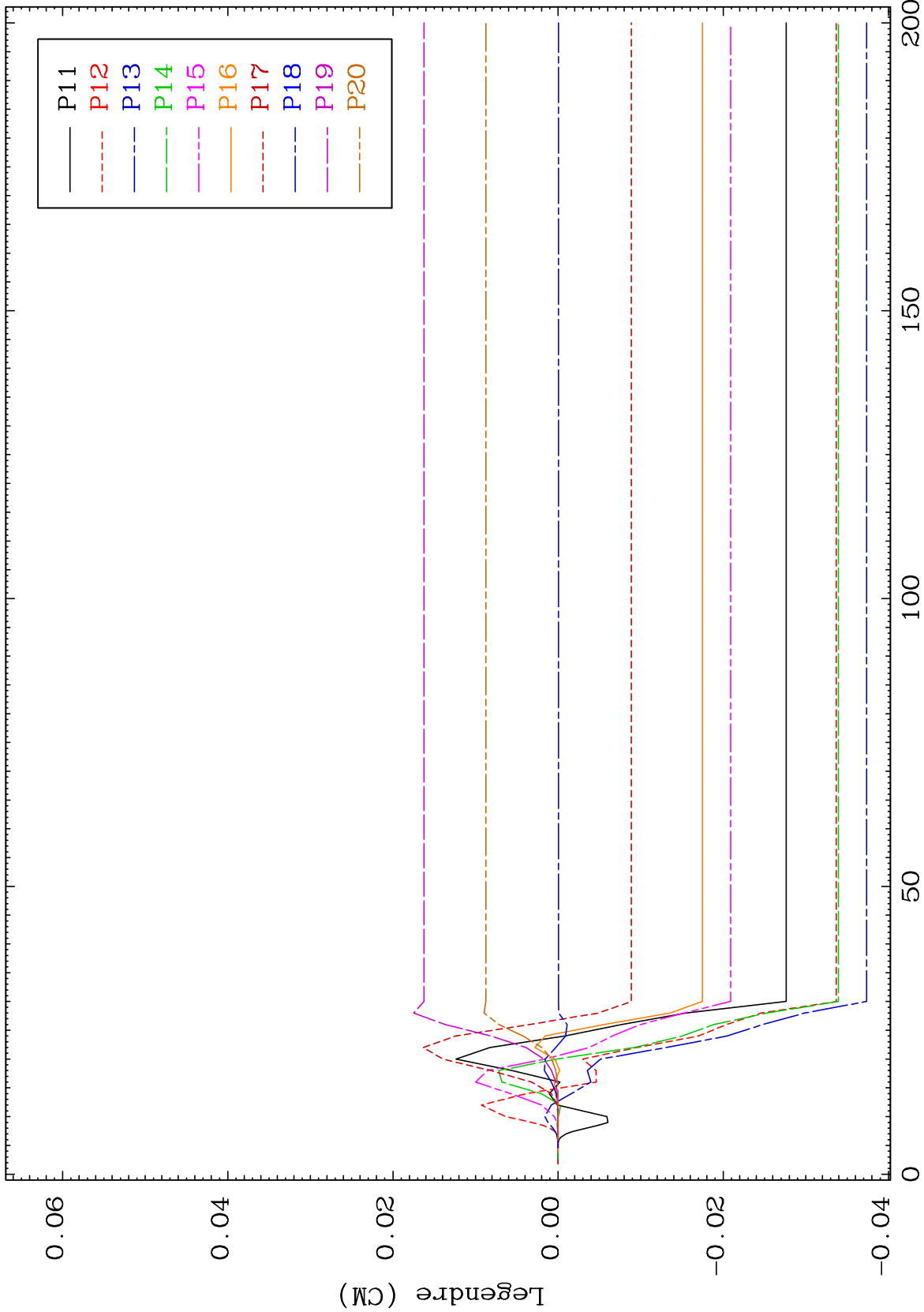
74-W -185

108

MAT 7440

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

74-W -185



109

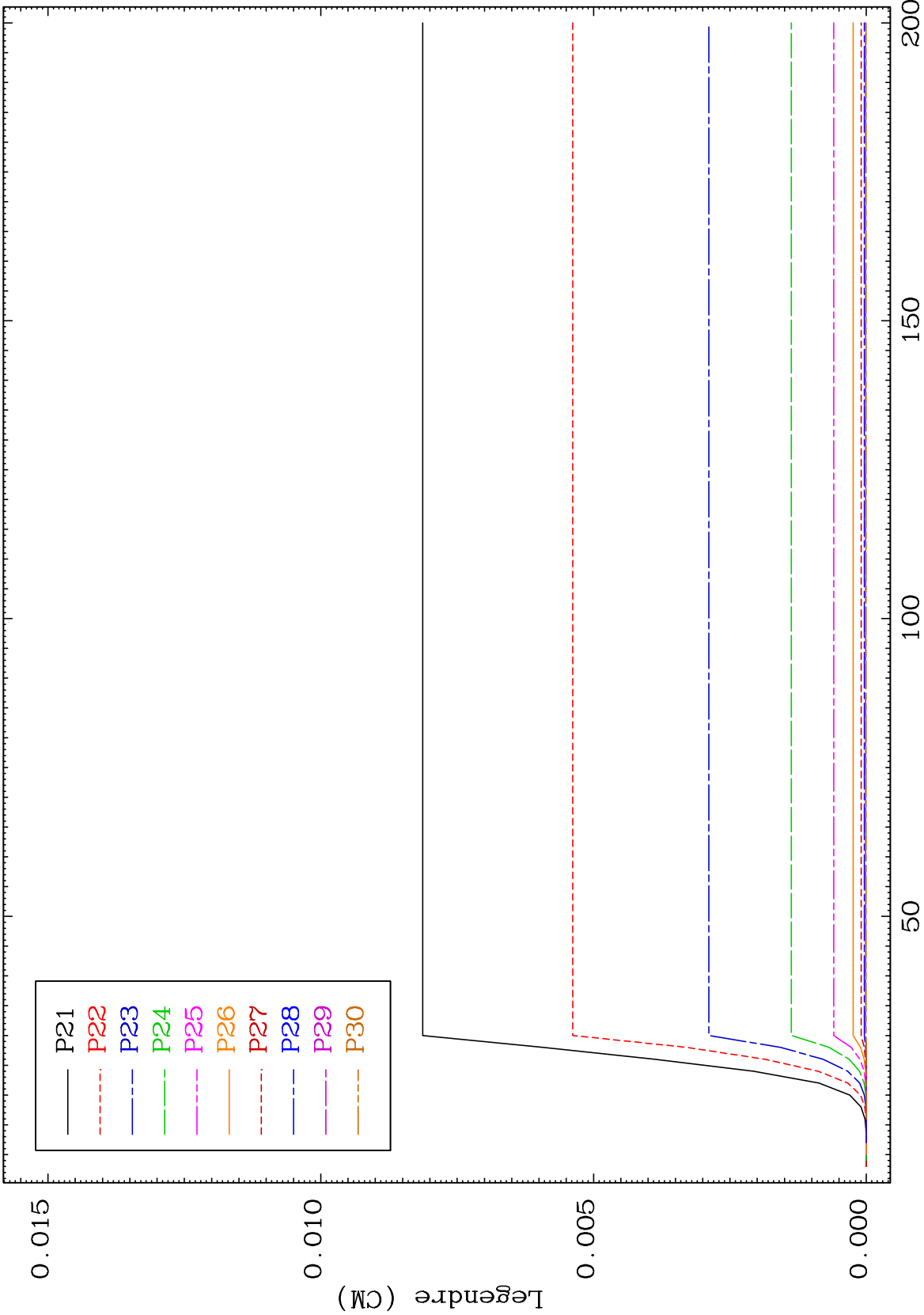
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



110

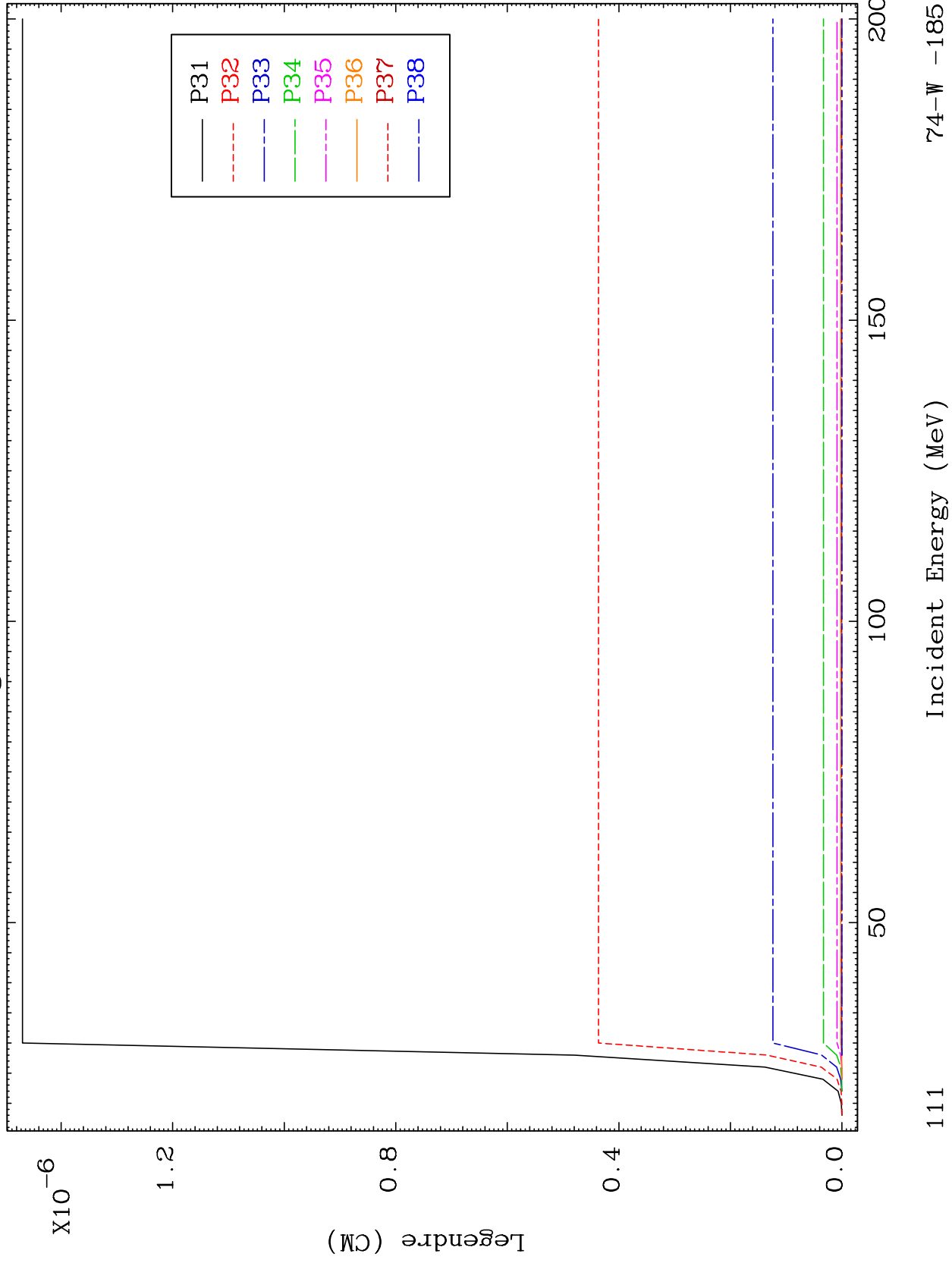
Incident Energy (MeV)

74-W -185

MAT 7440

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

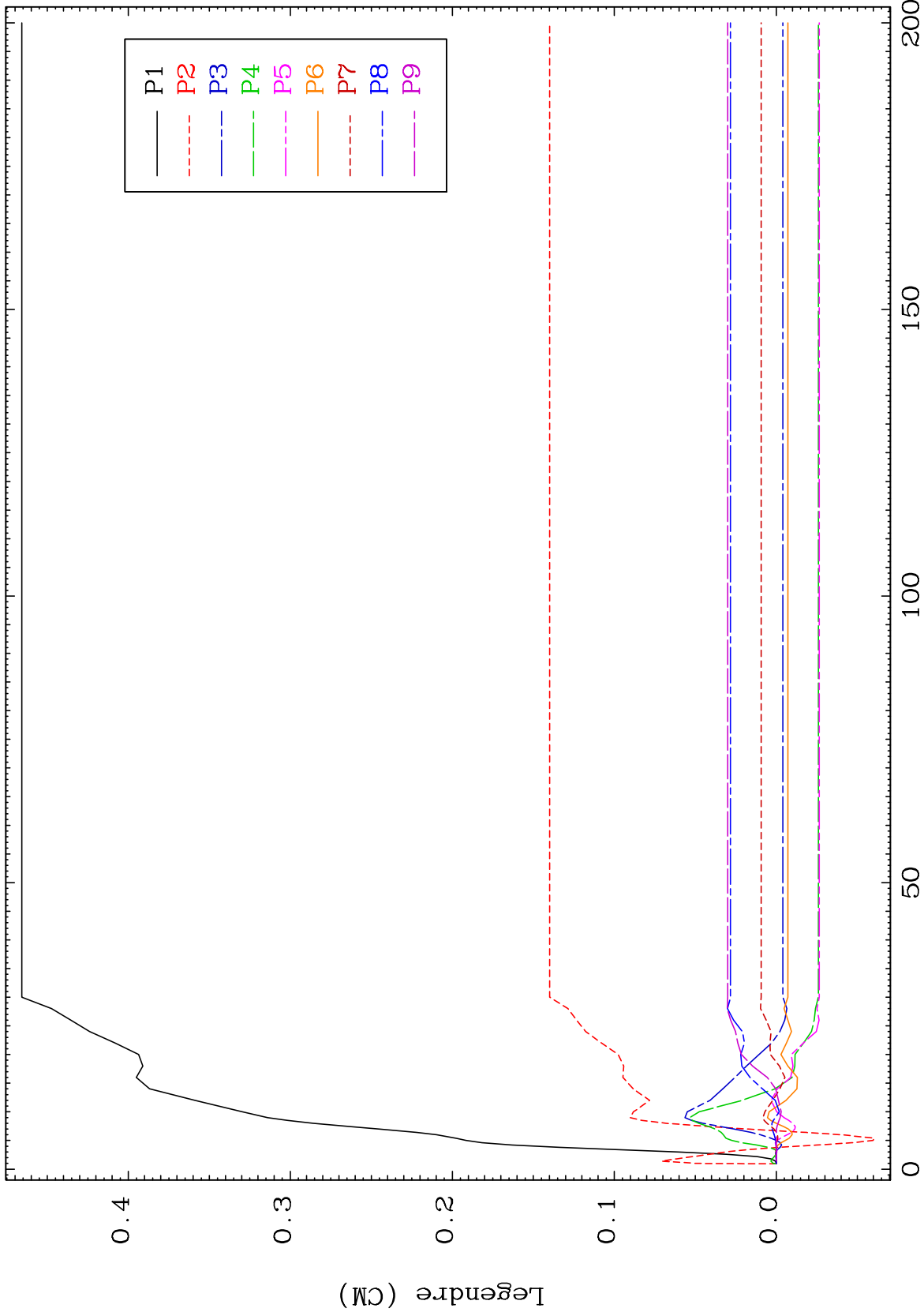
74-W -185



MAT 7440

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

74-W -185



112

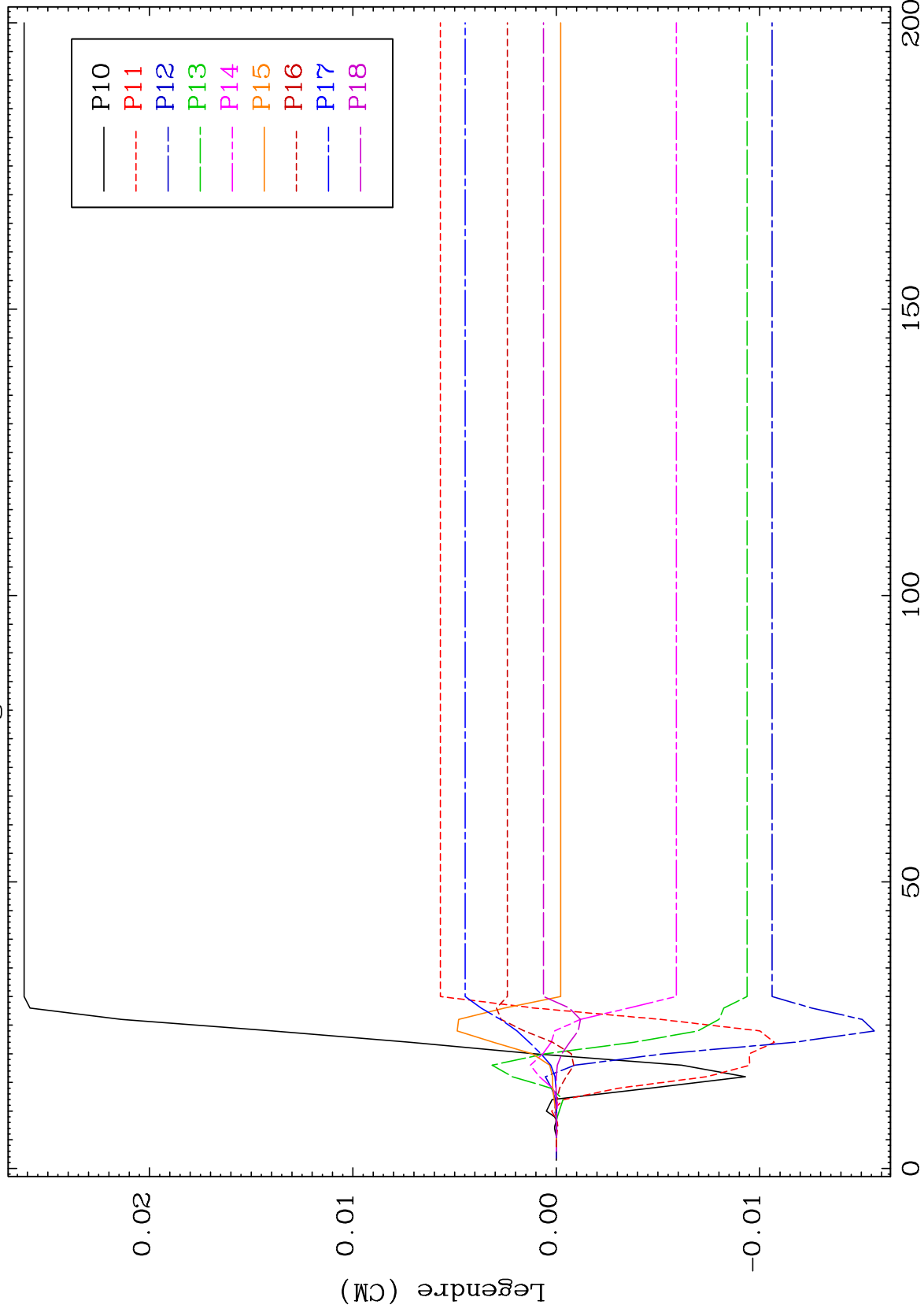
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



113

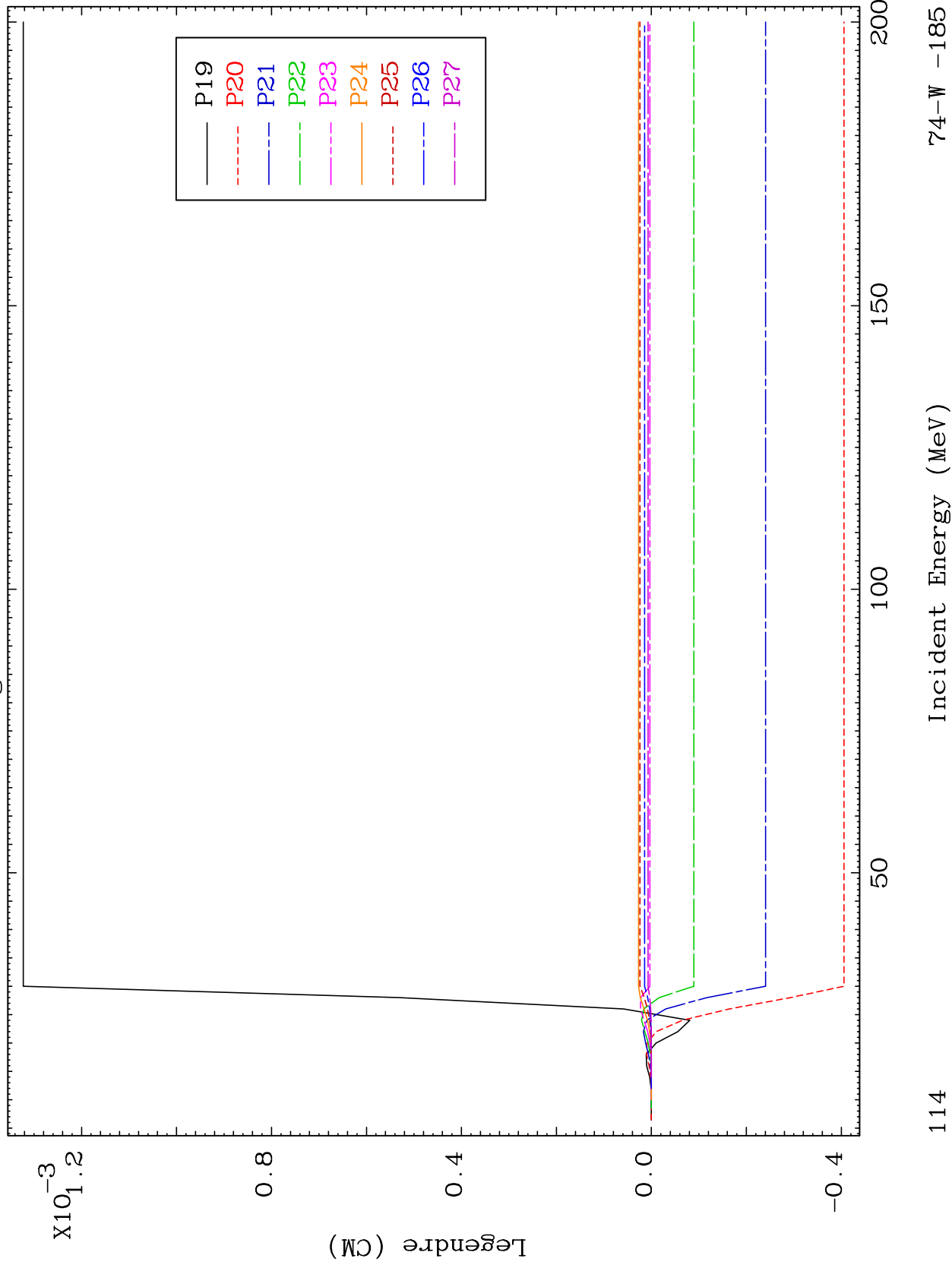
Incident Energy (MeV)

74-W -185

MAT 7440

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

74-W -185



114

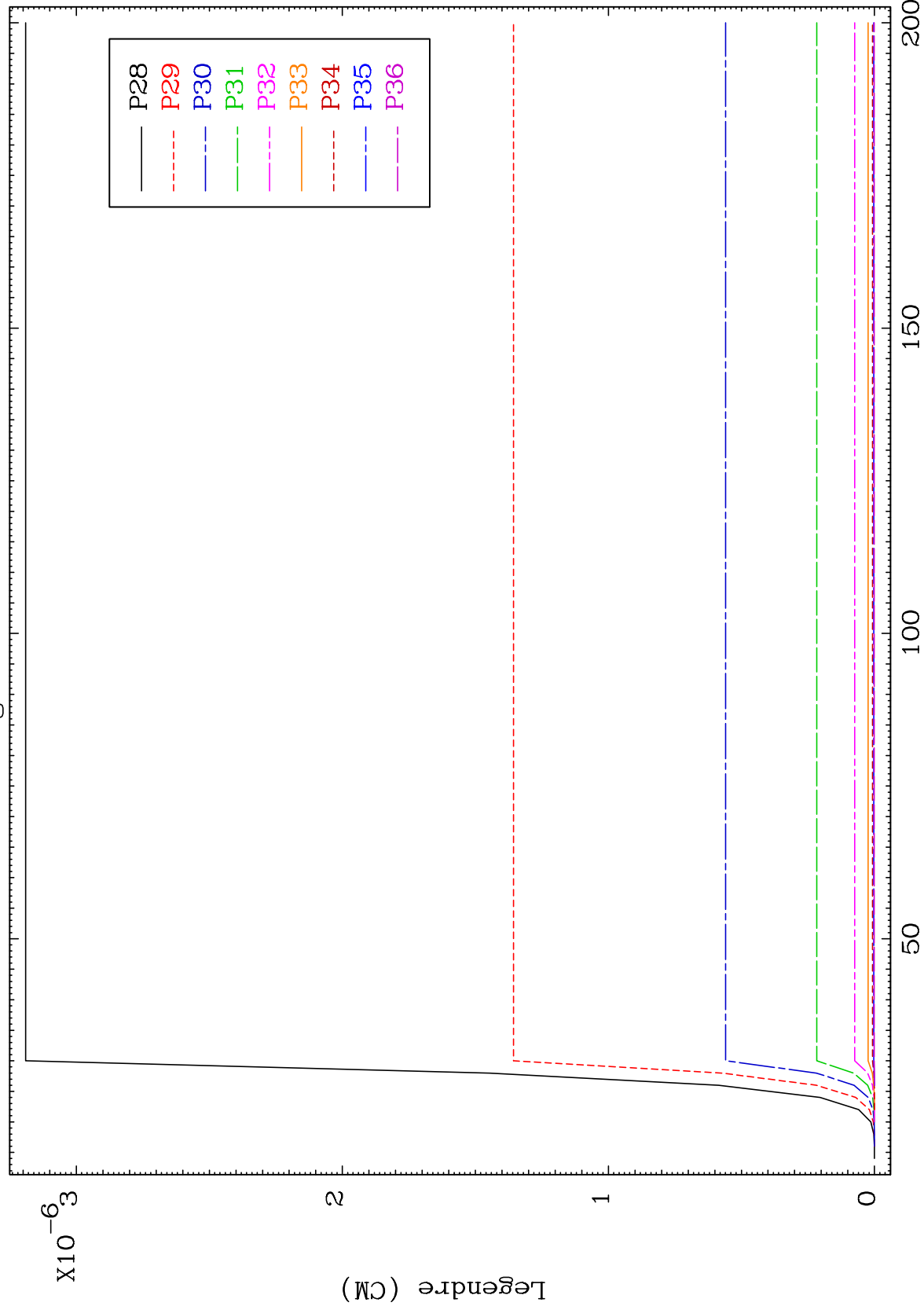
Incident Energy (MeV)

74-W -185

MAT 7440

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

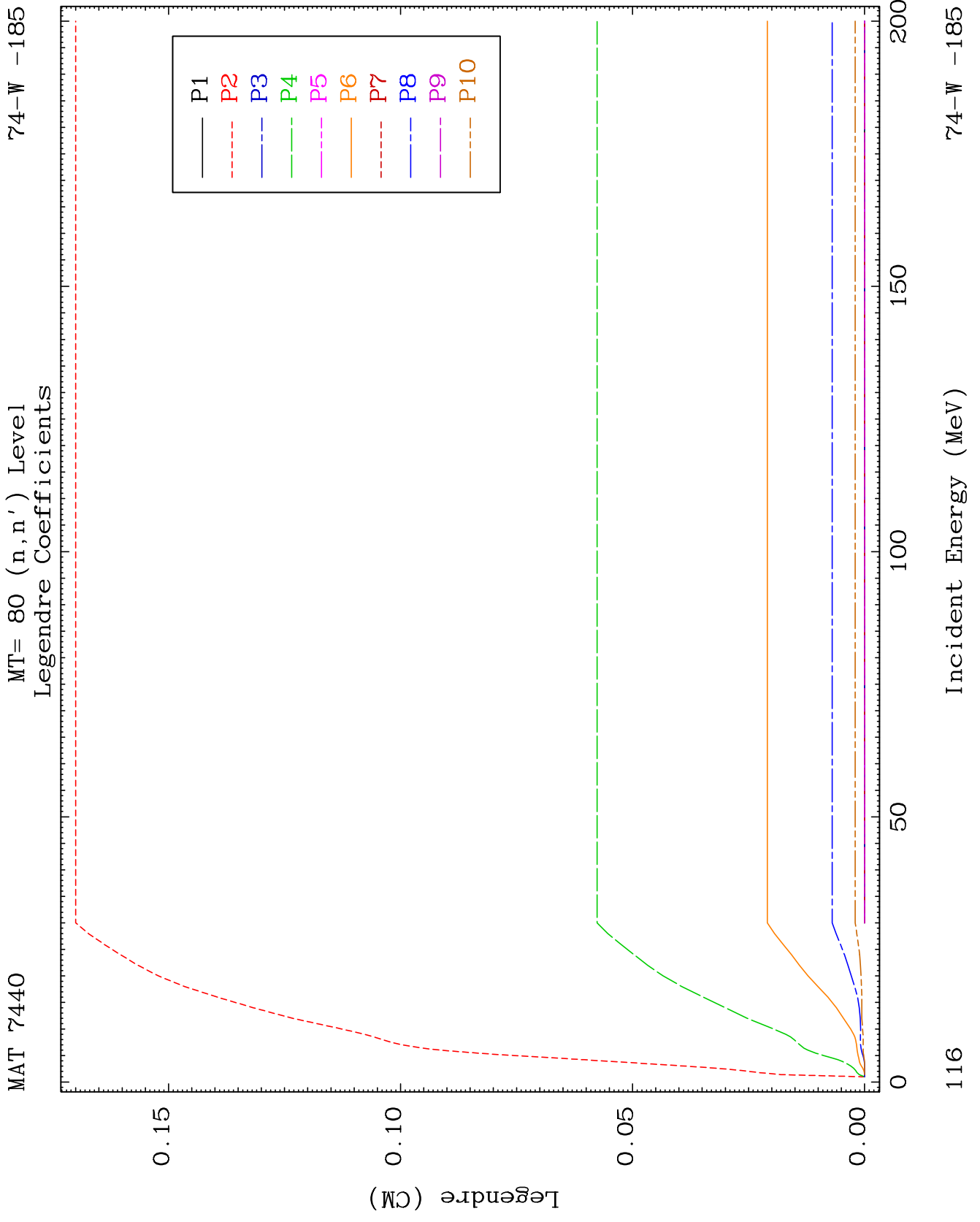
74-W -185



115

Incident Energy (MeV)

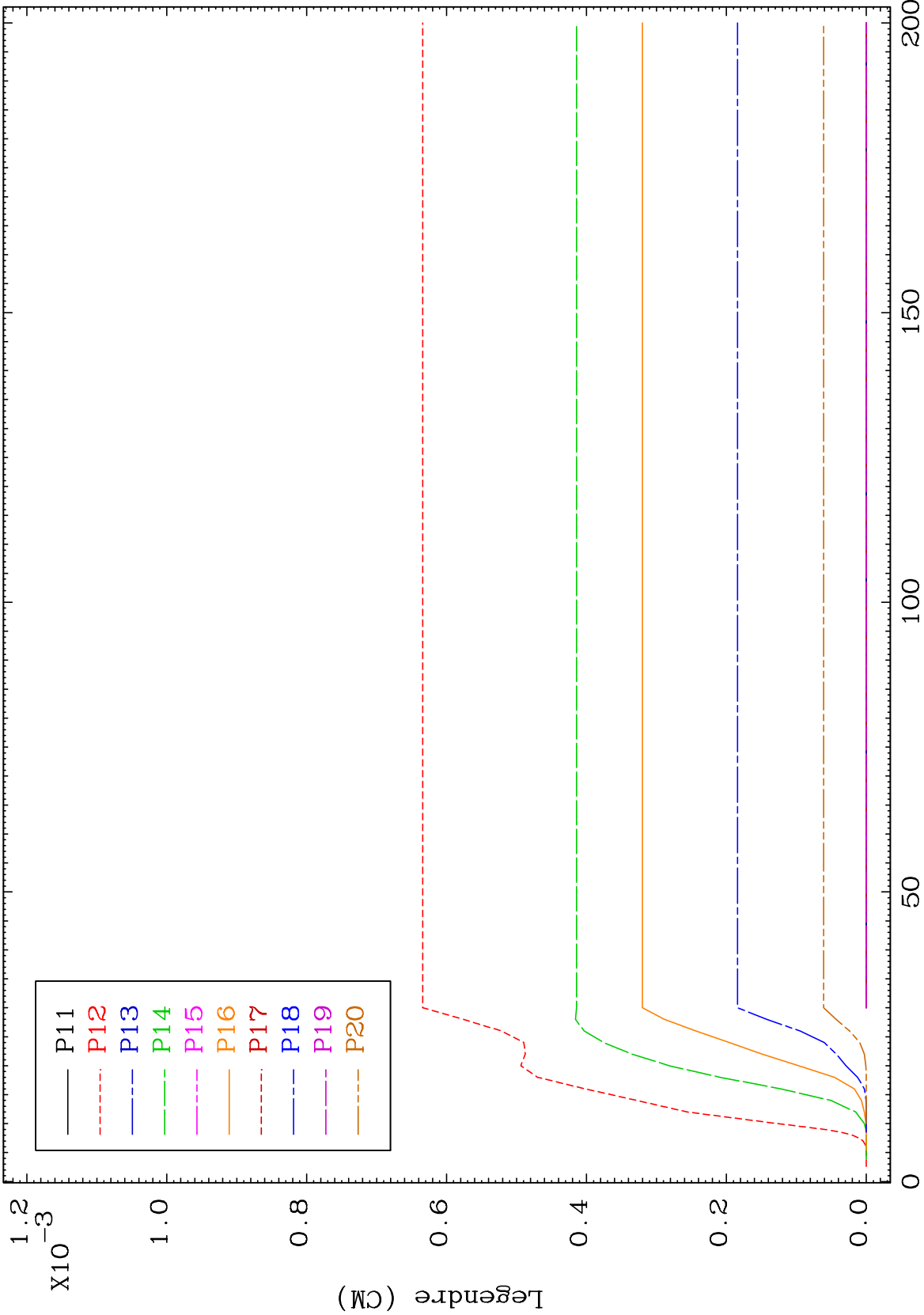
74-W -185



MAT 7440

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

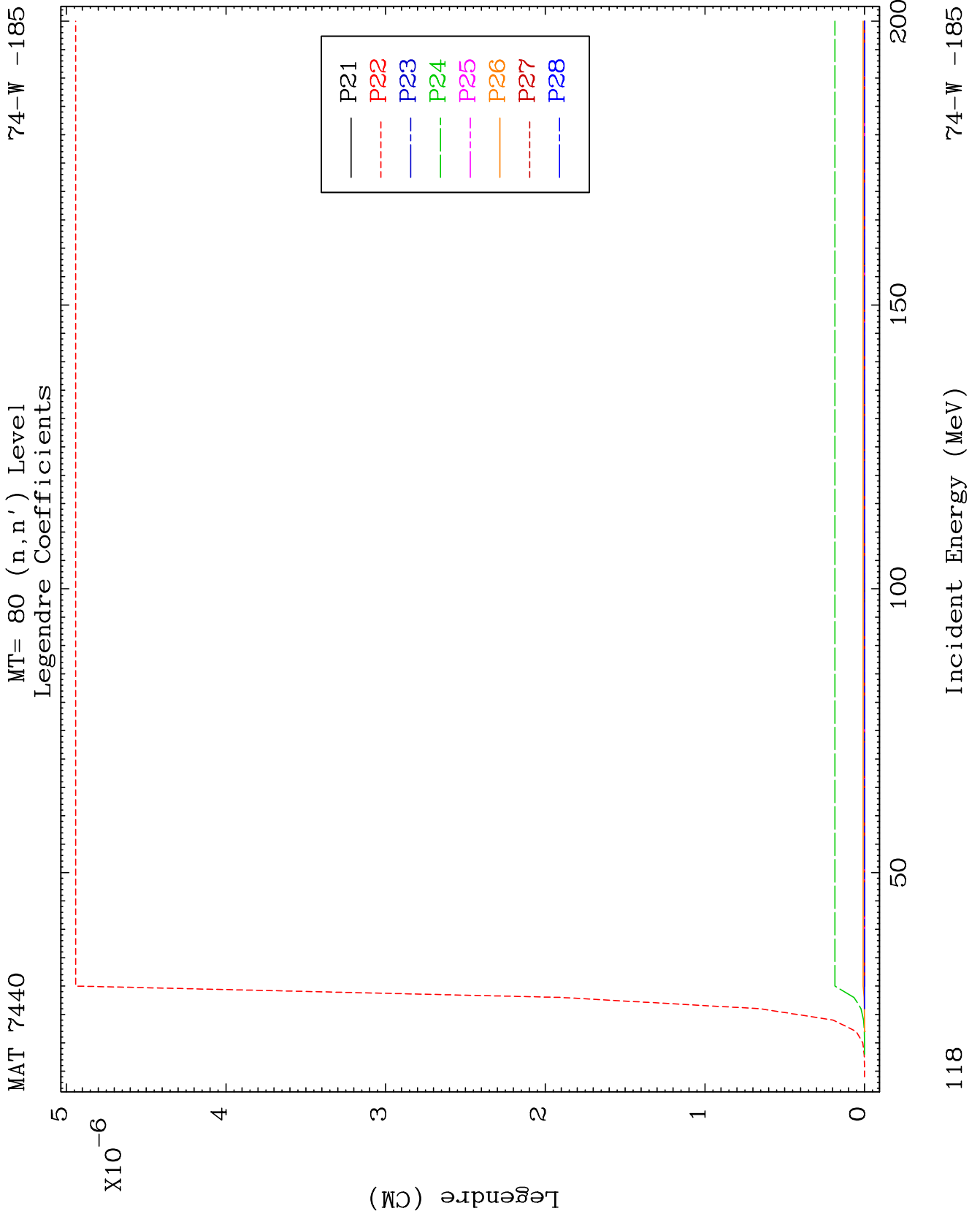
74-W -185



117

Incident Energy (MeV)

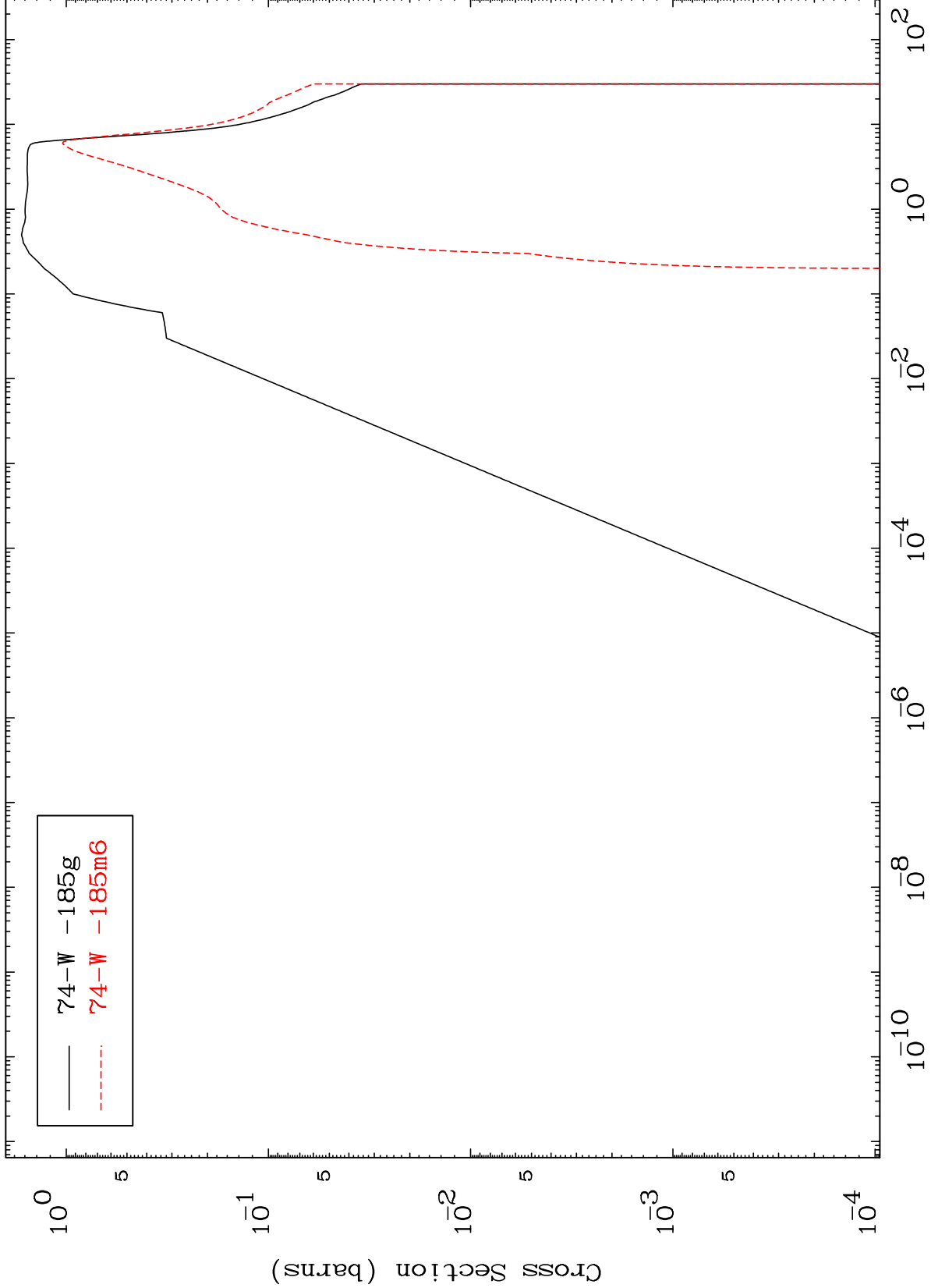
74-W -185



MAT 7440

Inelastic  
Radionuclide Production Cross Section

74-W -185



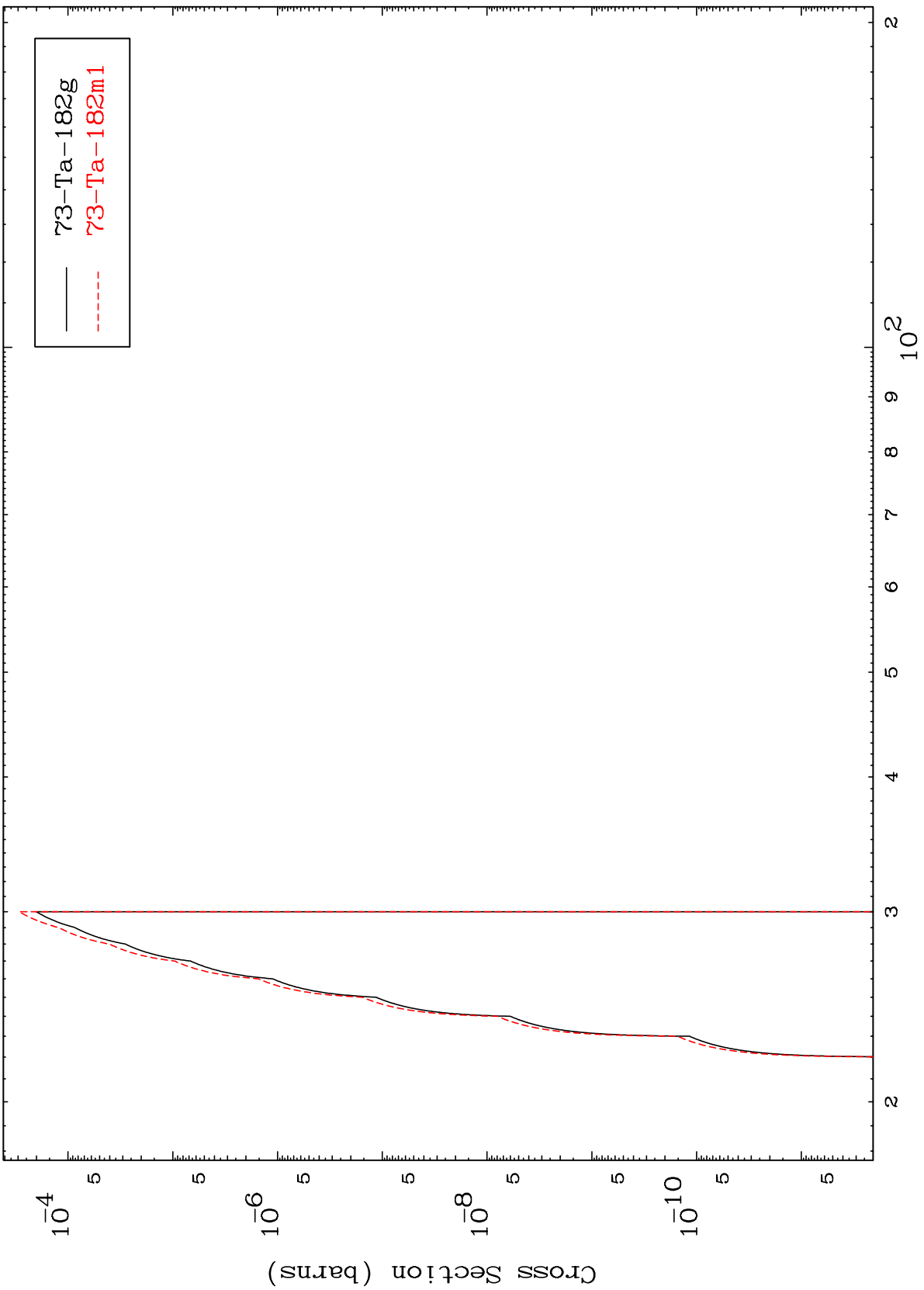
74-W -185g  
74-W -185m6

MAT 7440

(n,2n) d

74-W -185

Radionuclide Production Cross Section



120

Incident Energy (MeV)

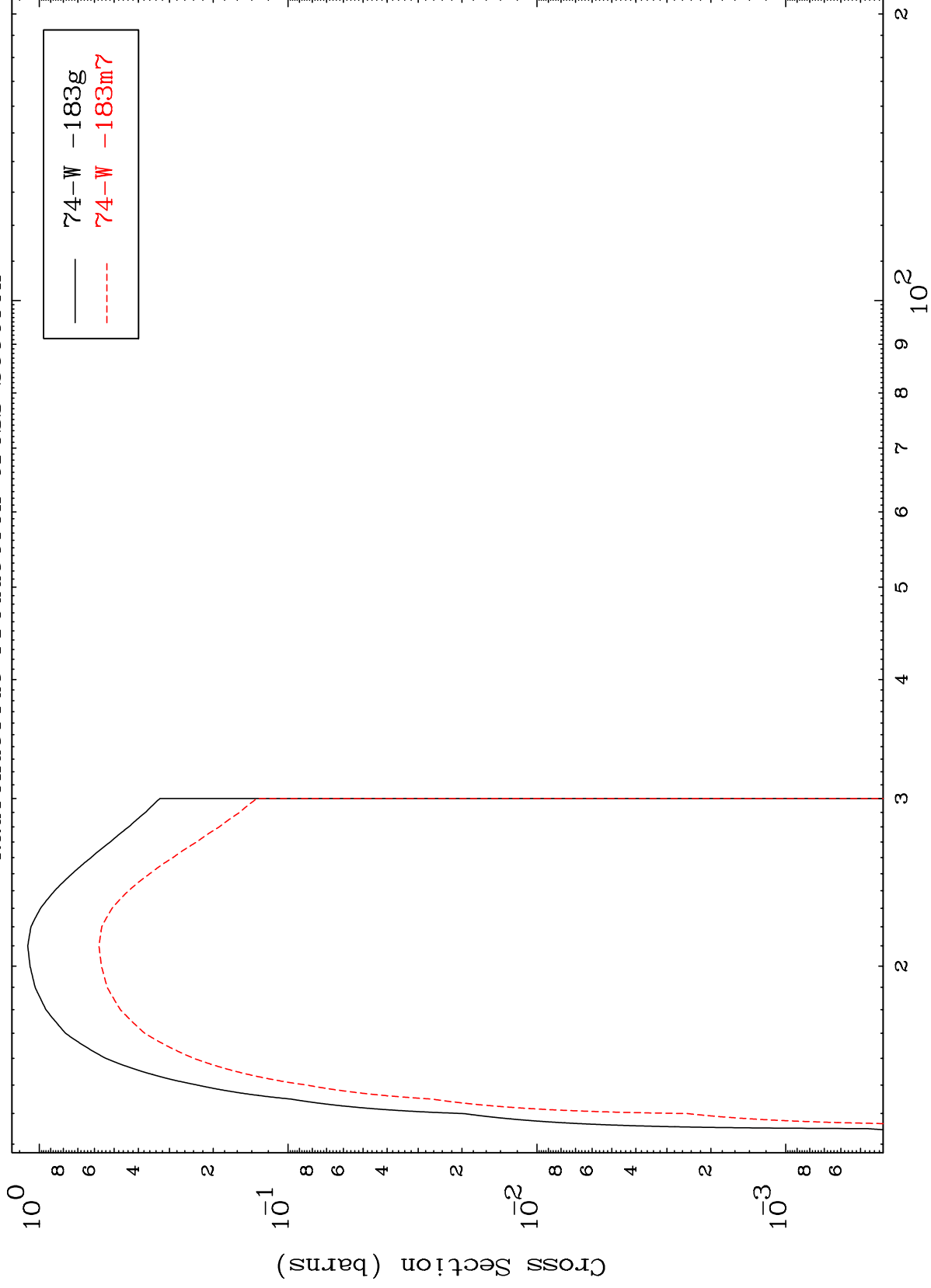
74-W -185

MAT 7440

(n,3n)

74-W -185

Radionuclide Production Cross Section



121

Incident Energy (MeV)

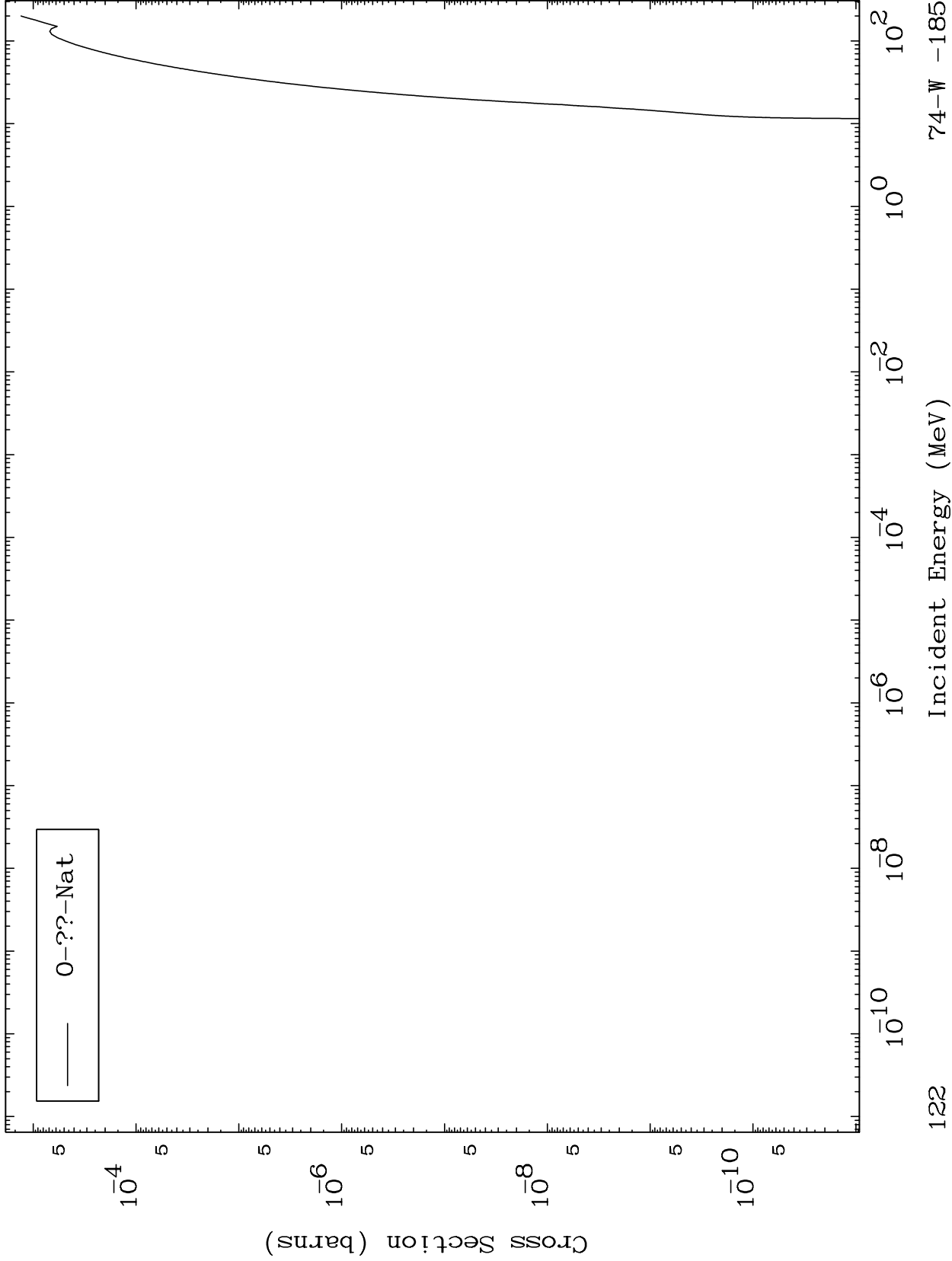
74-W -185

MAT 7440

Fission

74-W -185

Radionuclide Production Cross Section



122

Incident Energy (MeV)

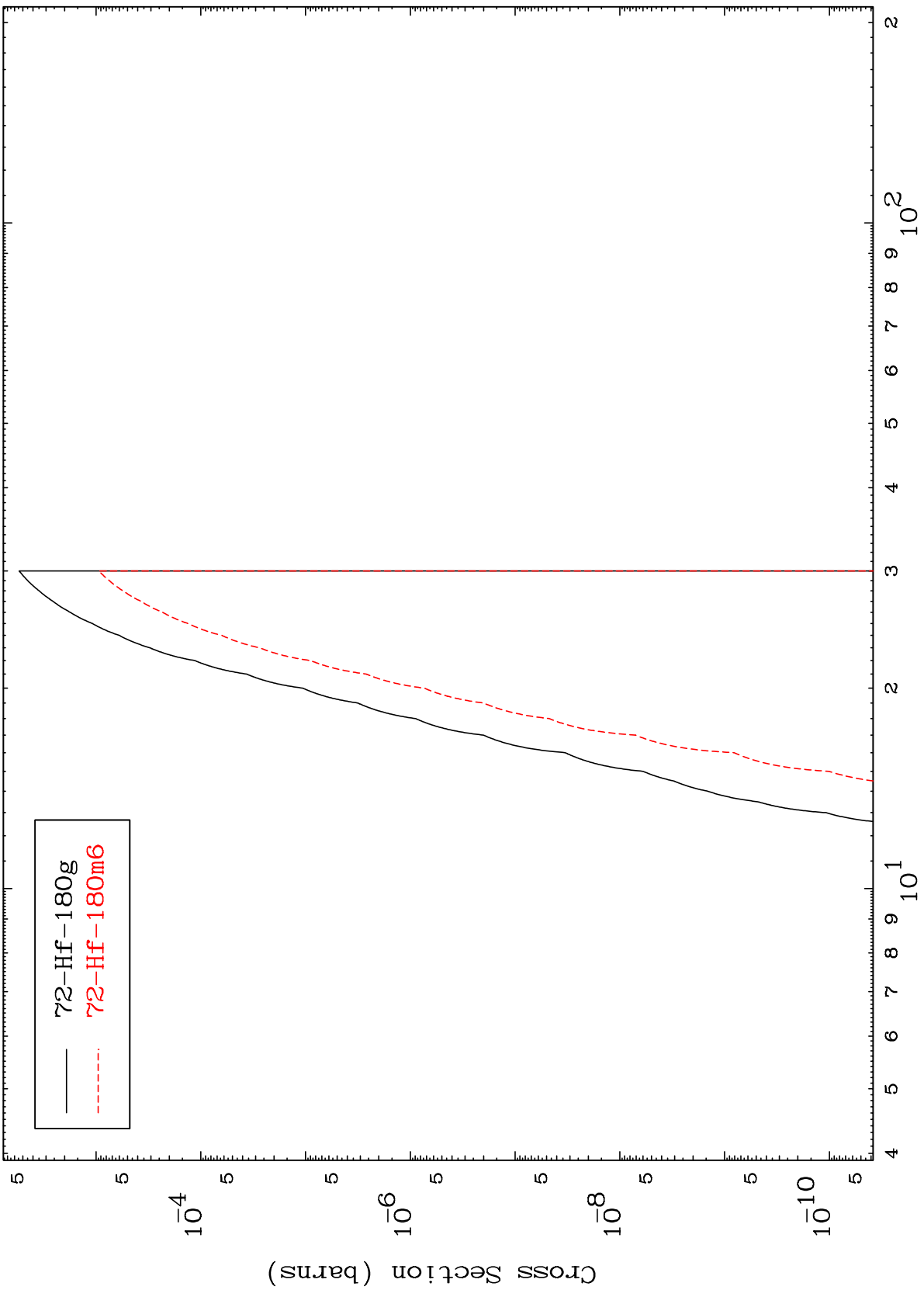
74-W -185

MAT 7440

(n,2n)  $\alpha$

74-W -185

Radionuclide Production Cross Section



123

Incident Energy (MeV)

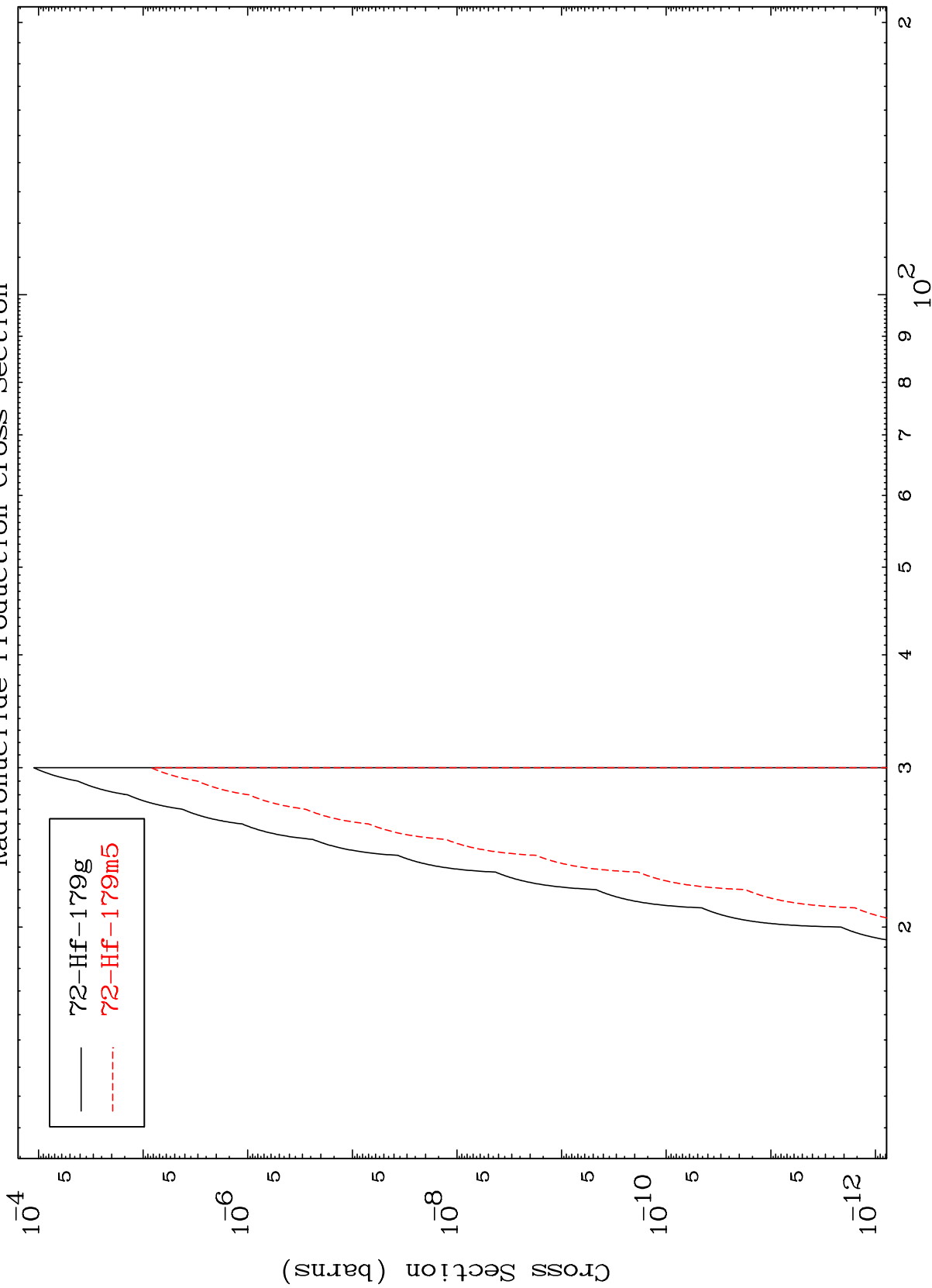
74-W -185

MAT 7440

(n,3n)  $\alpha$

74-W -185

Radionuclide Production Cross Section



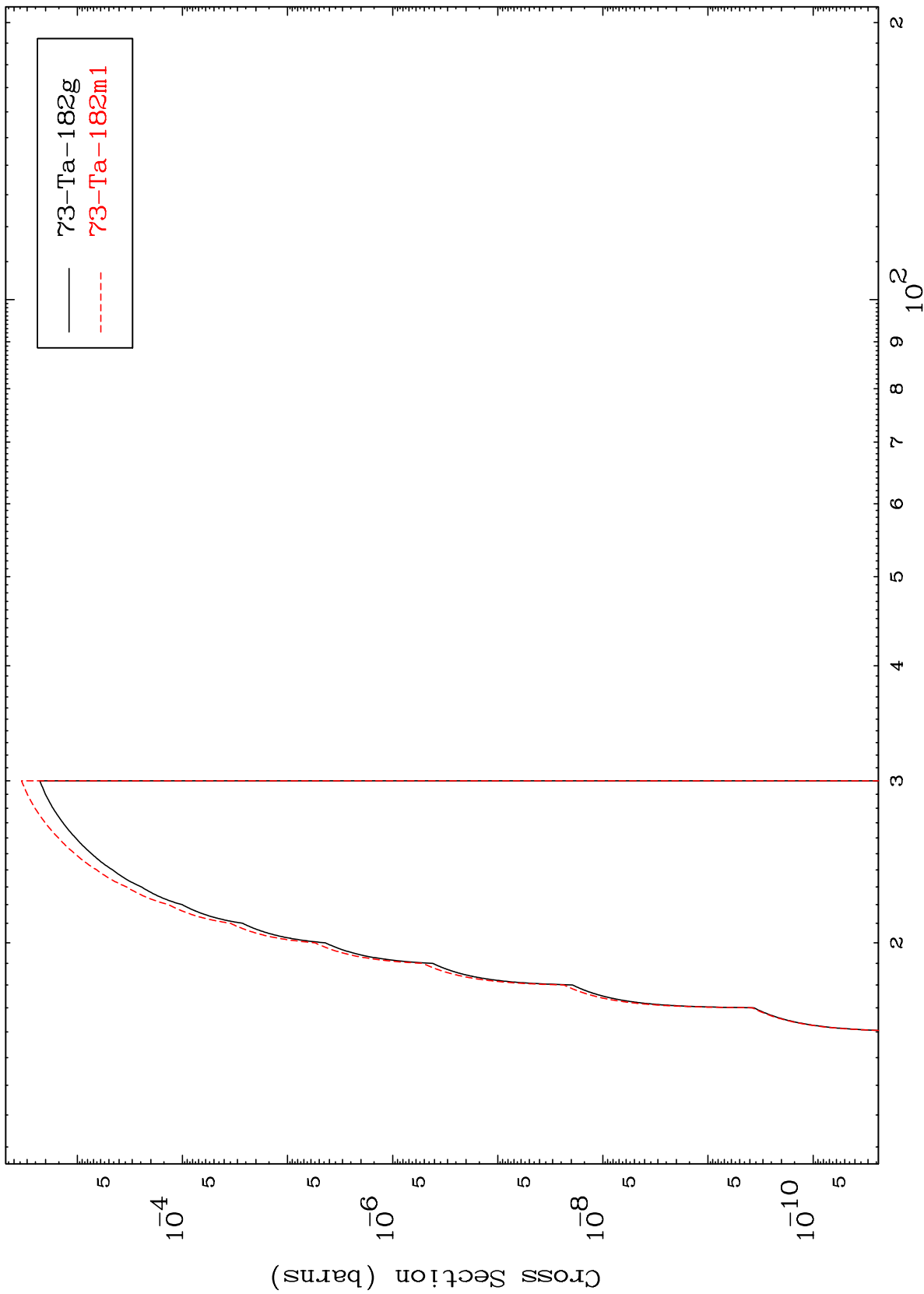
72-Hf-179g  
72-Hf-179m5

124

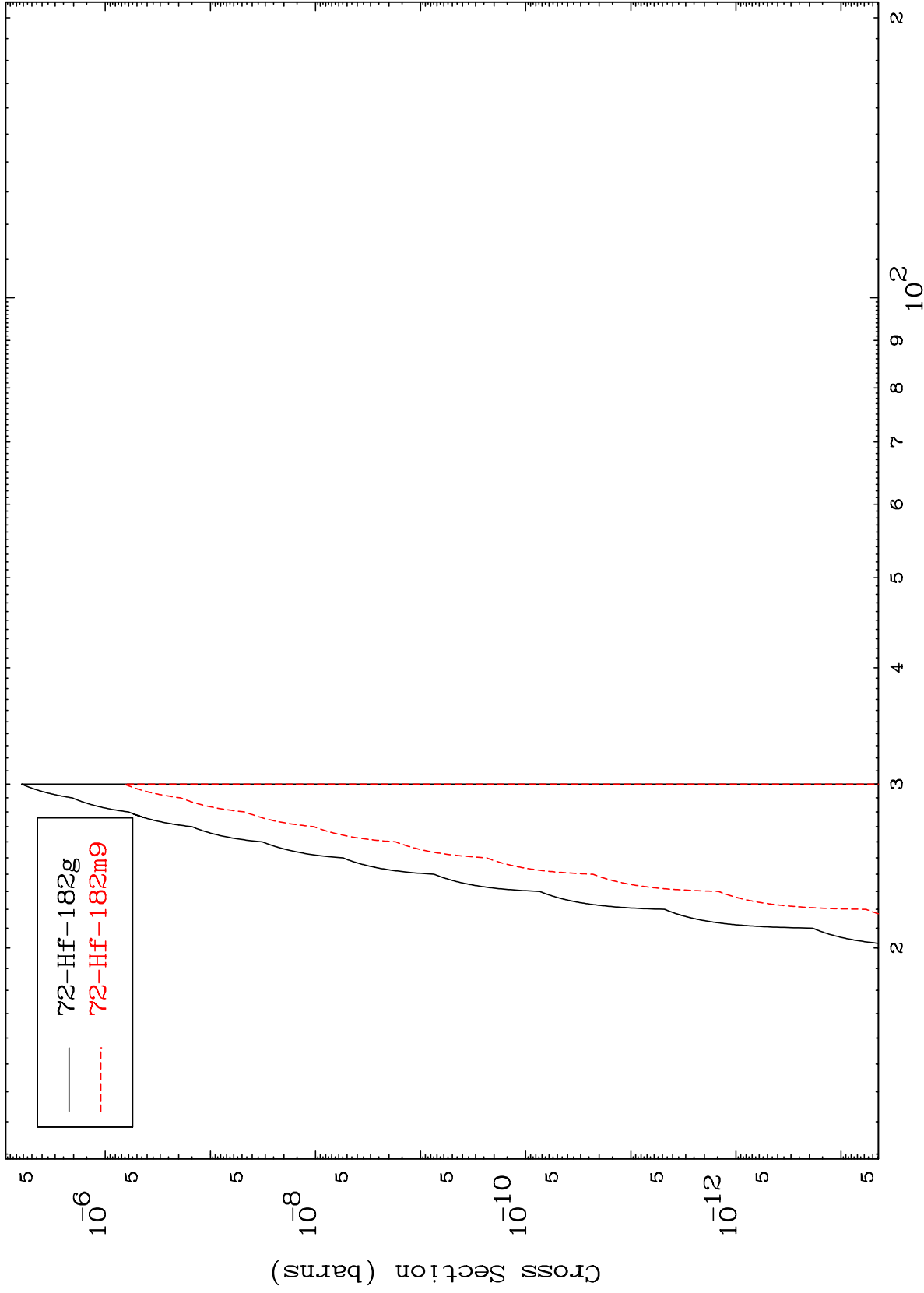
Incident Energy (MeV)

74-W -185

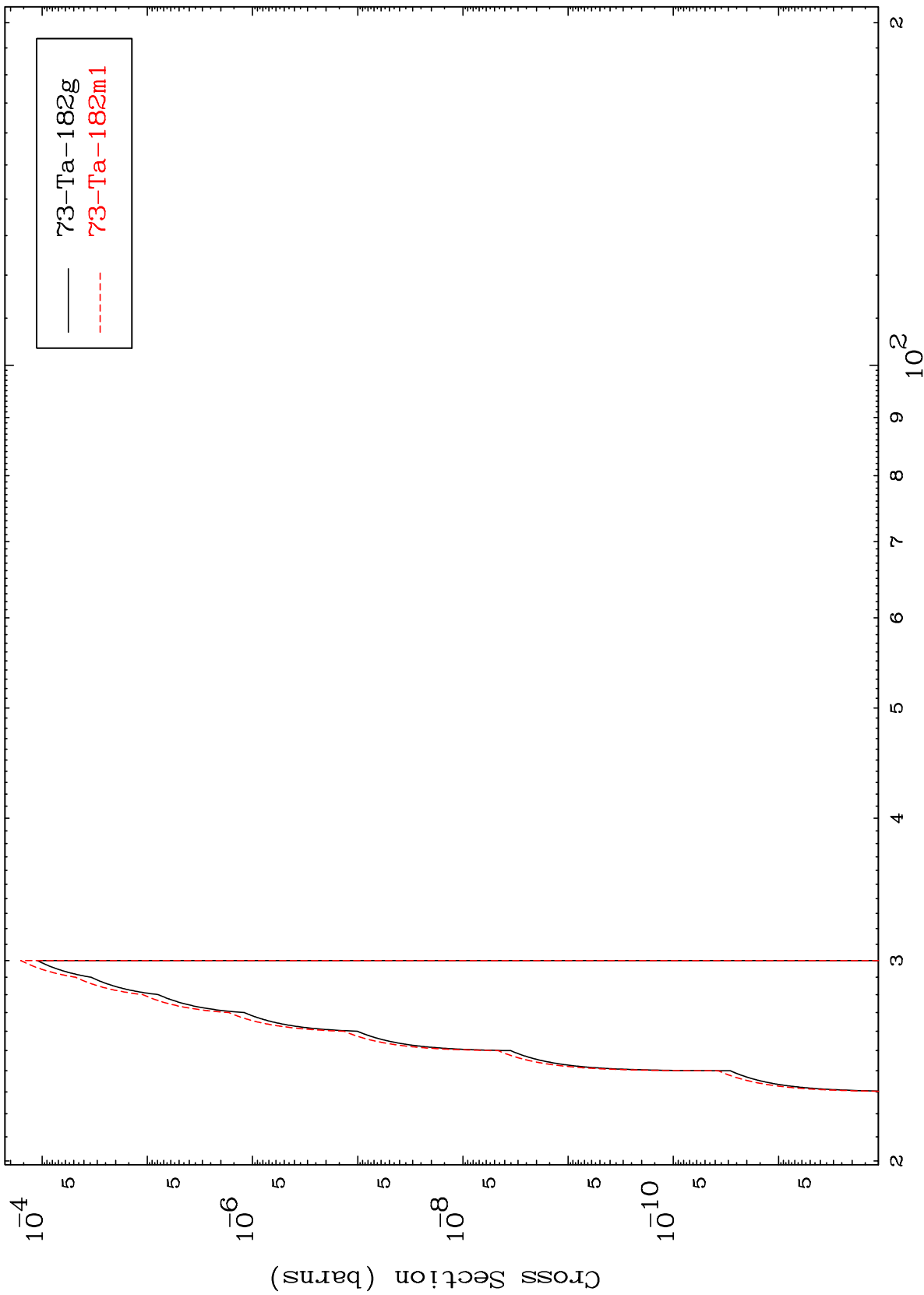
Radionuclide Production Cross Section



Radionuclide Production Cross Section



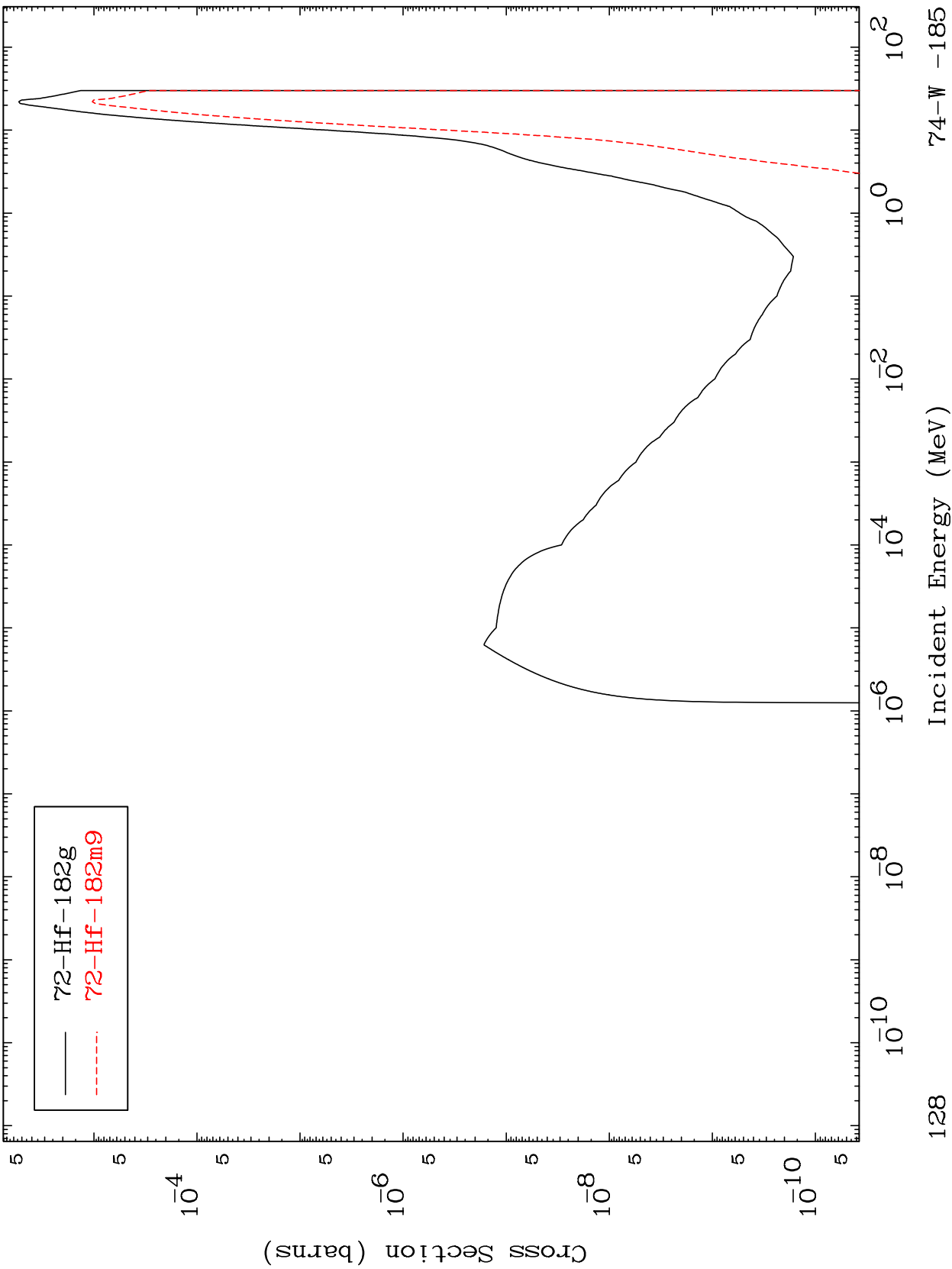
Radionuclide Production Cross Section



MAT 7440

74-W - 185

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



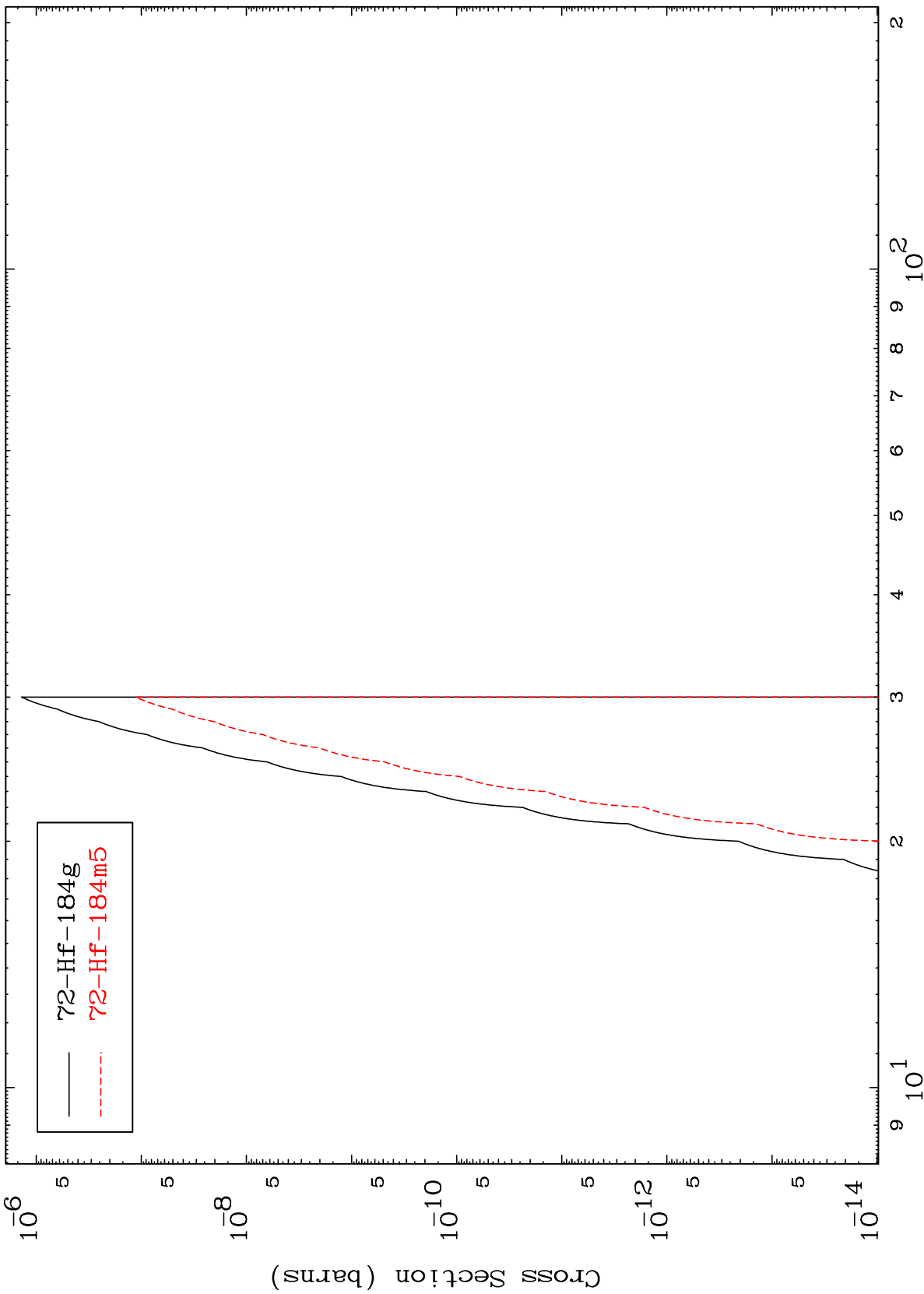
128

74-W - 185

MAT 7440

74-W -185

(n,2p)  
Radionuclide Production Cross Section



— 72-Hf-184g  
- - - 72-Hf-184m5

74-W -185

Incident Energy (MeV)

129