

Program EVALPLOT  
(Version 2017-1)

by

Dermott E. Cullen  
(Present Contact Information)

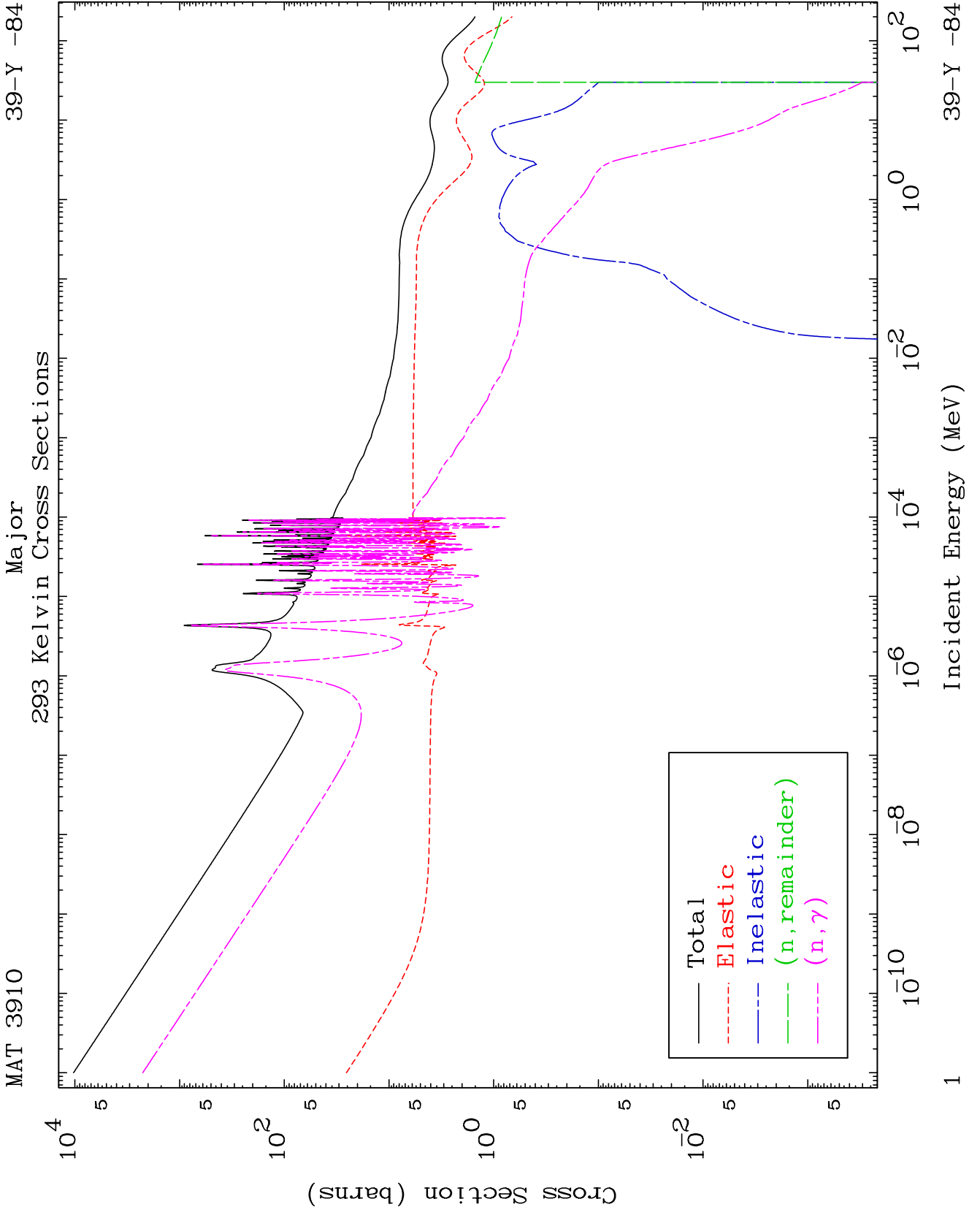
Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
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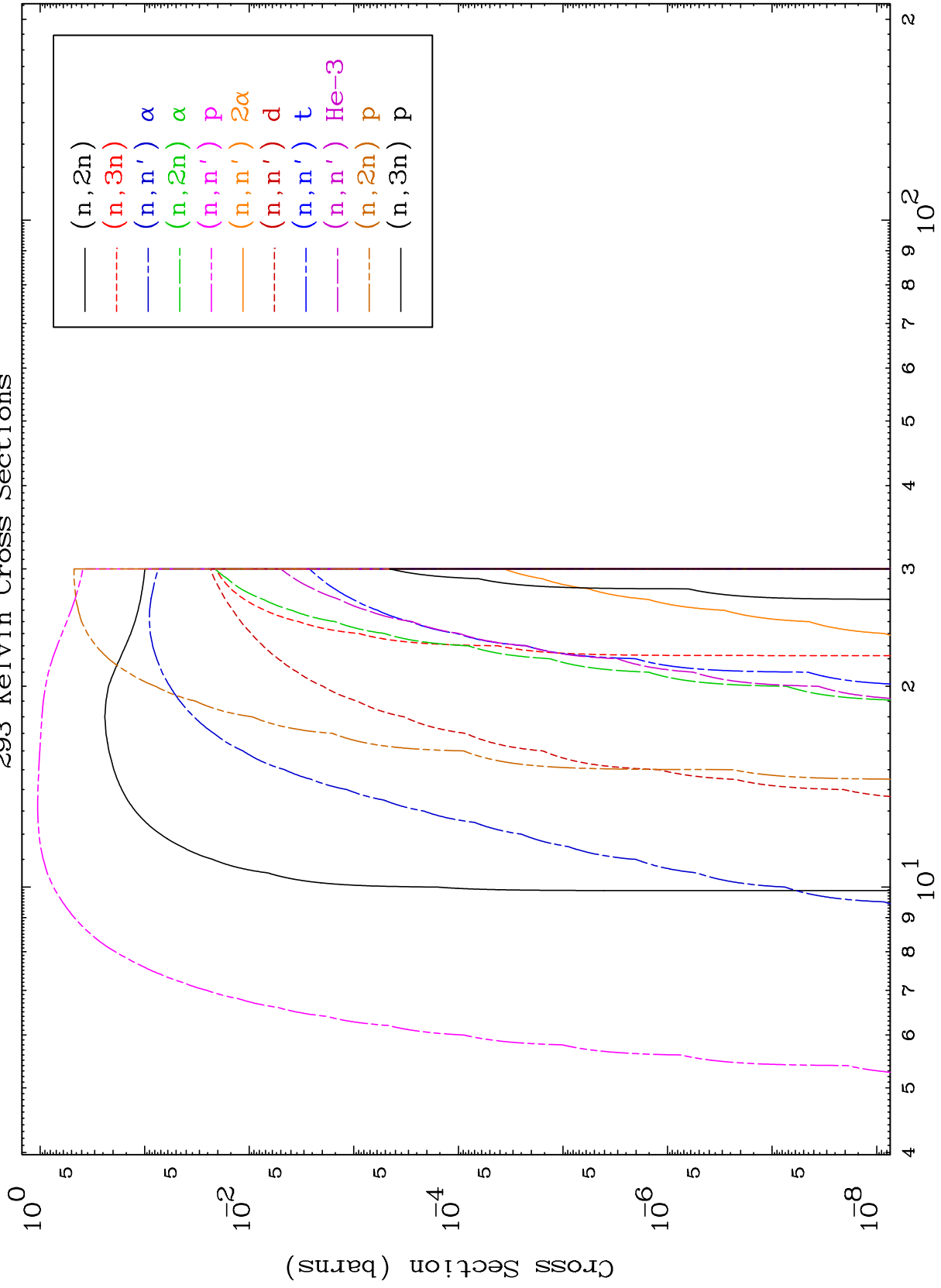
Tele: 925-443-1911

E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)

Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

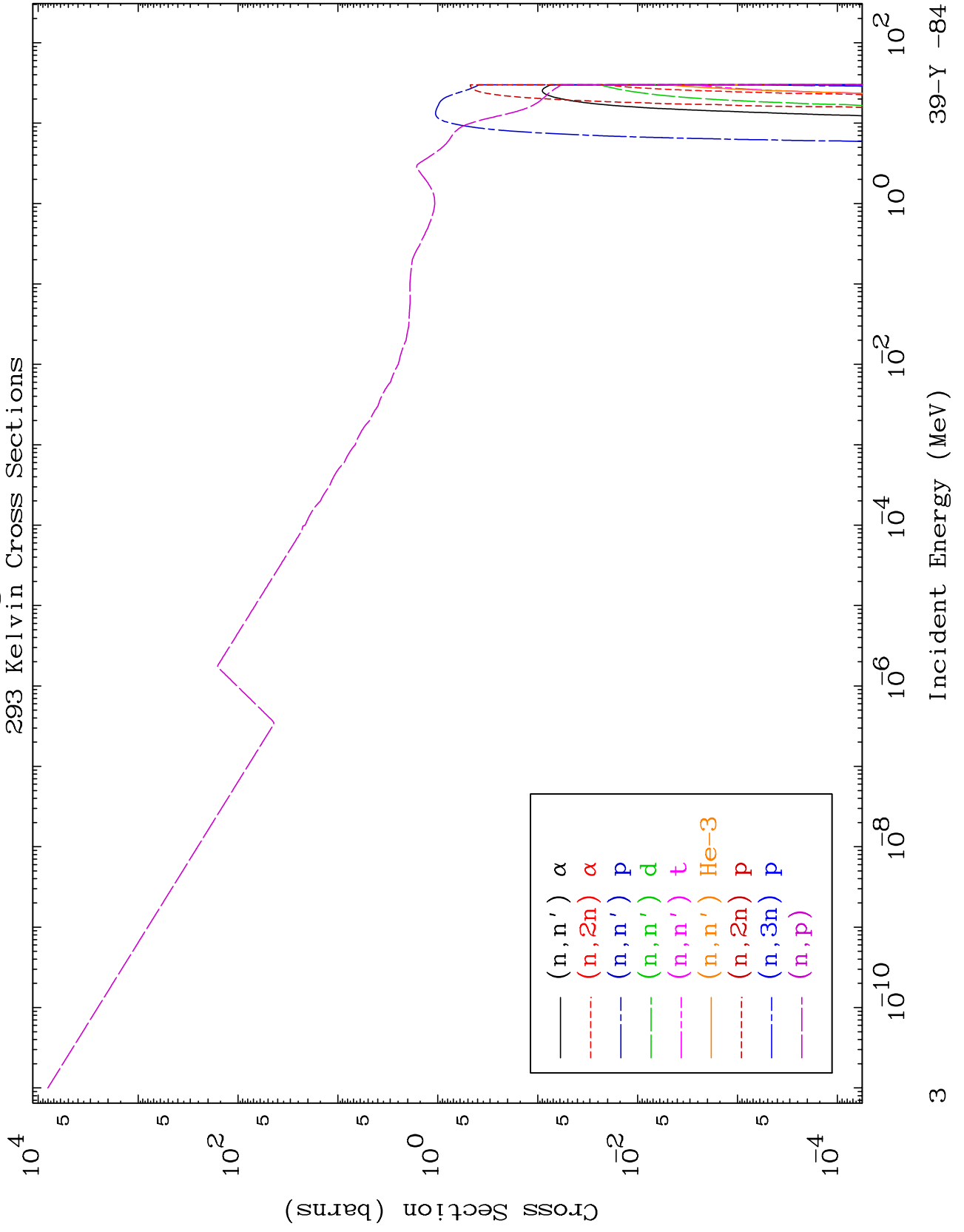




MAT 3910

Charged Particle  
293 Kelvin Cross Sections

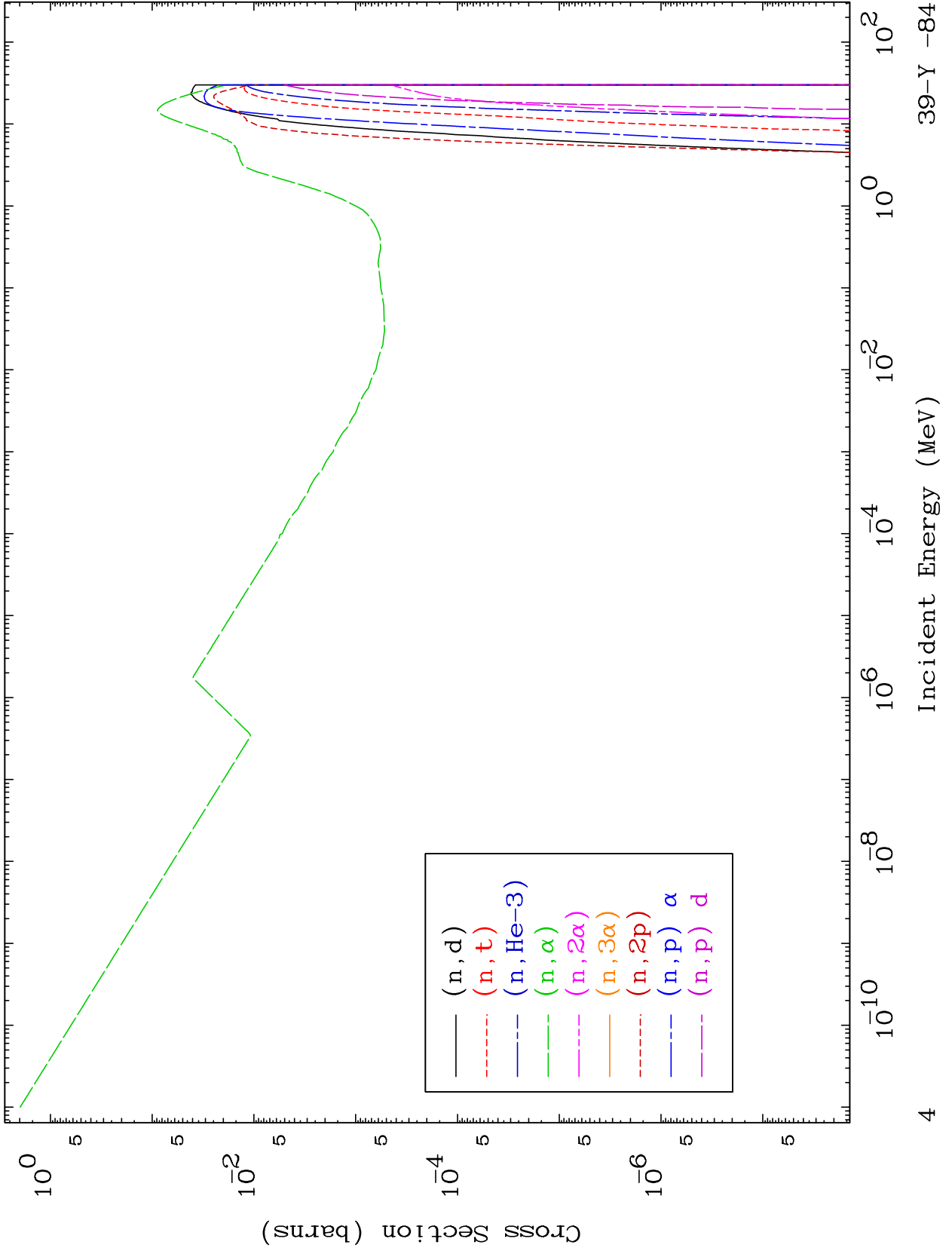
39-Y -84



MAT 3910

Charged Particle  
293 Kelvin Cross Sections

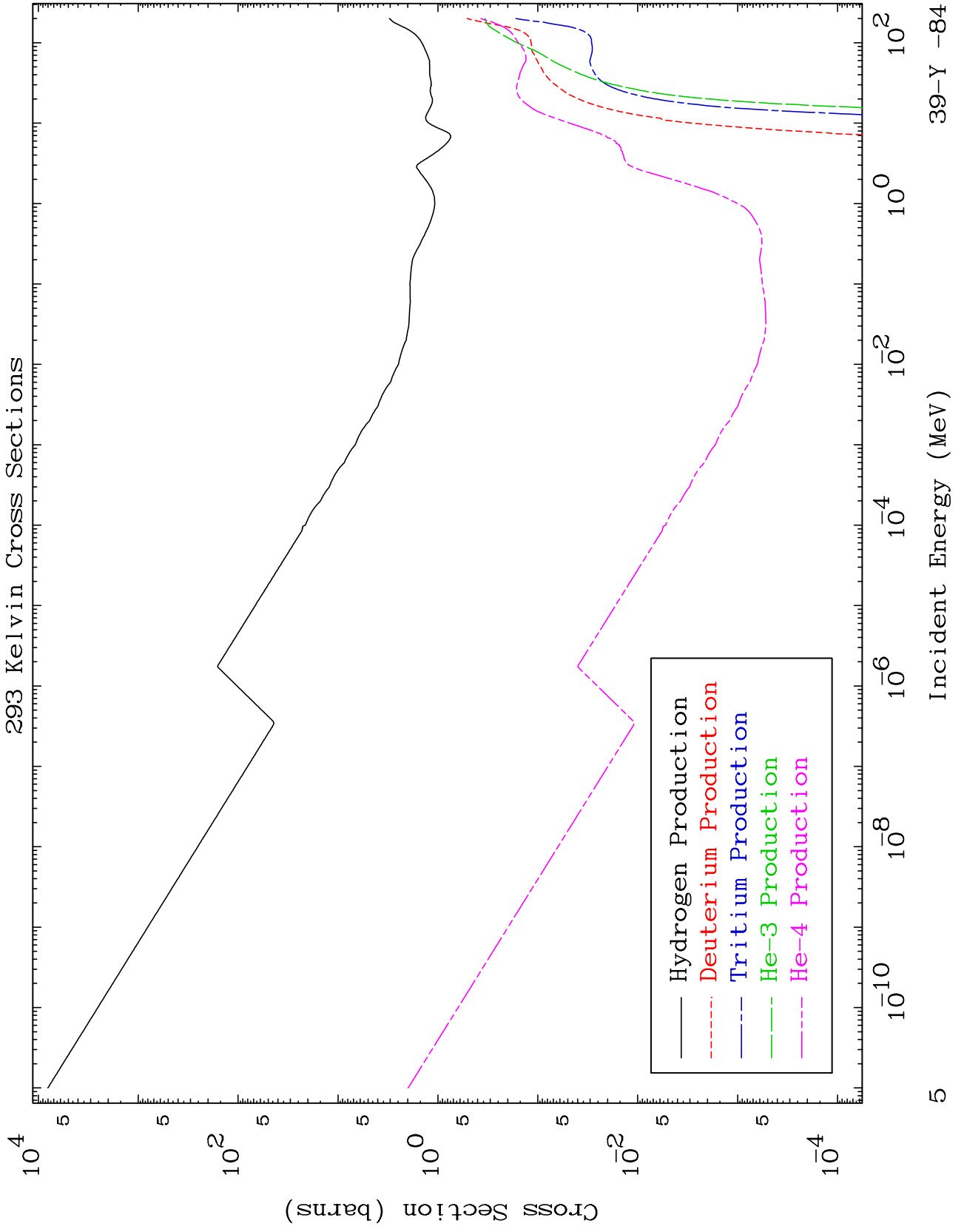
39-Y -84

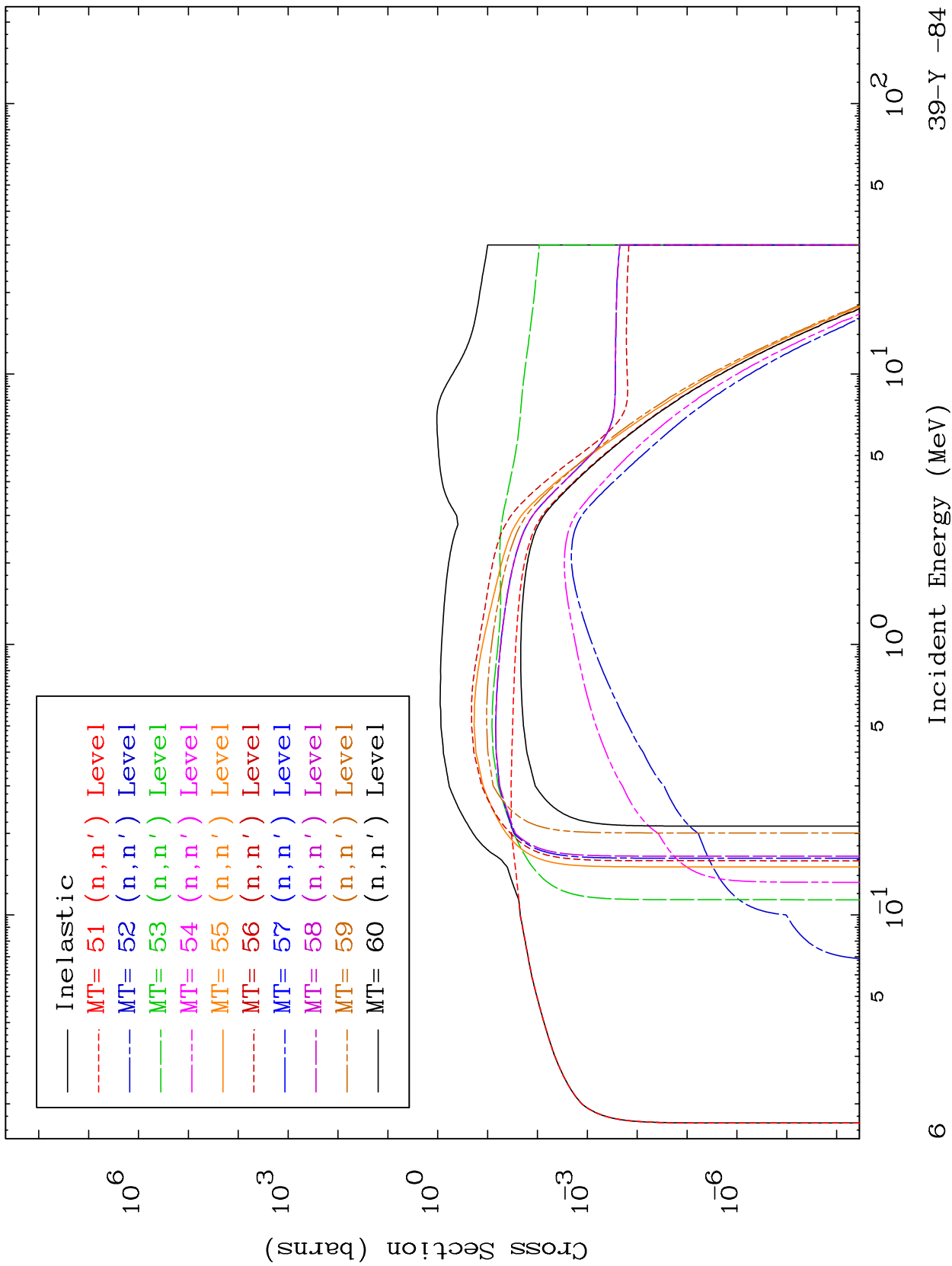


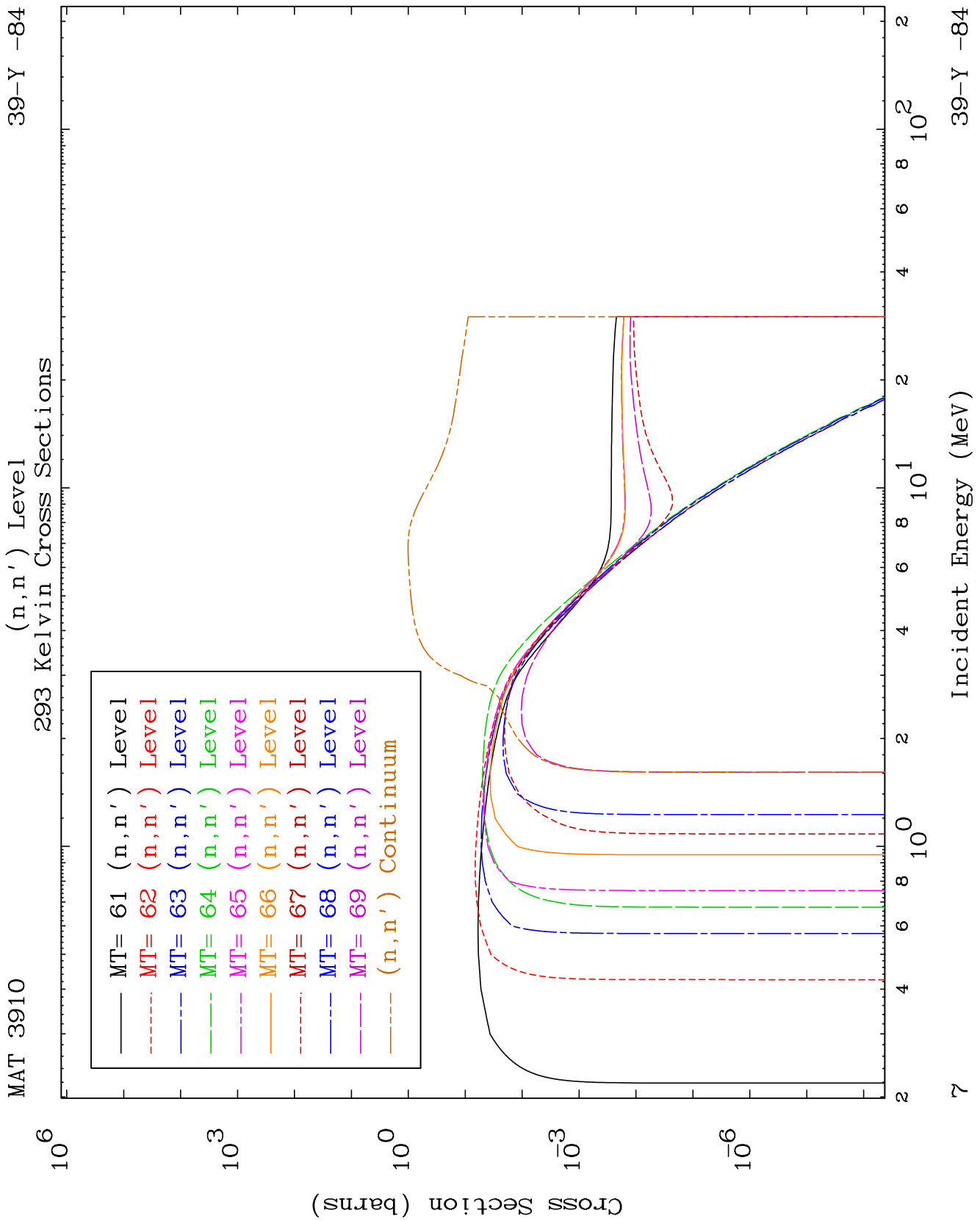
MAT 3910

Particle Production  
293 Kelvin Cross Sections

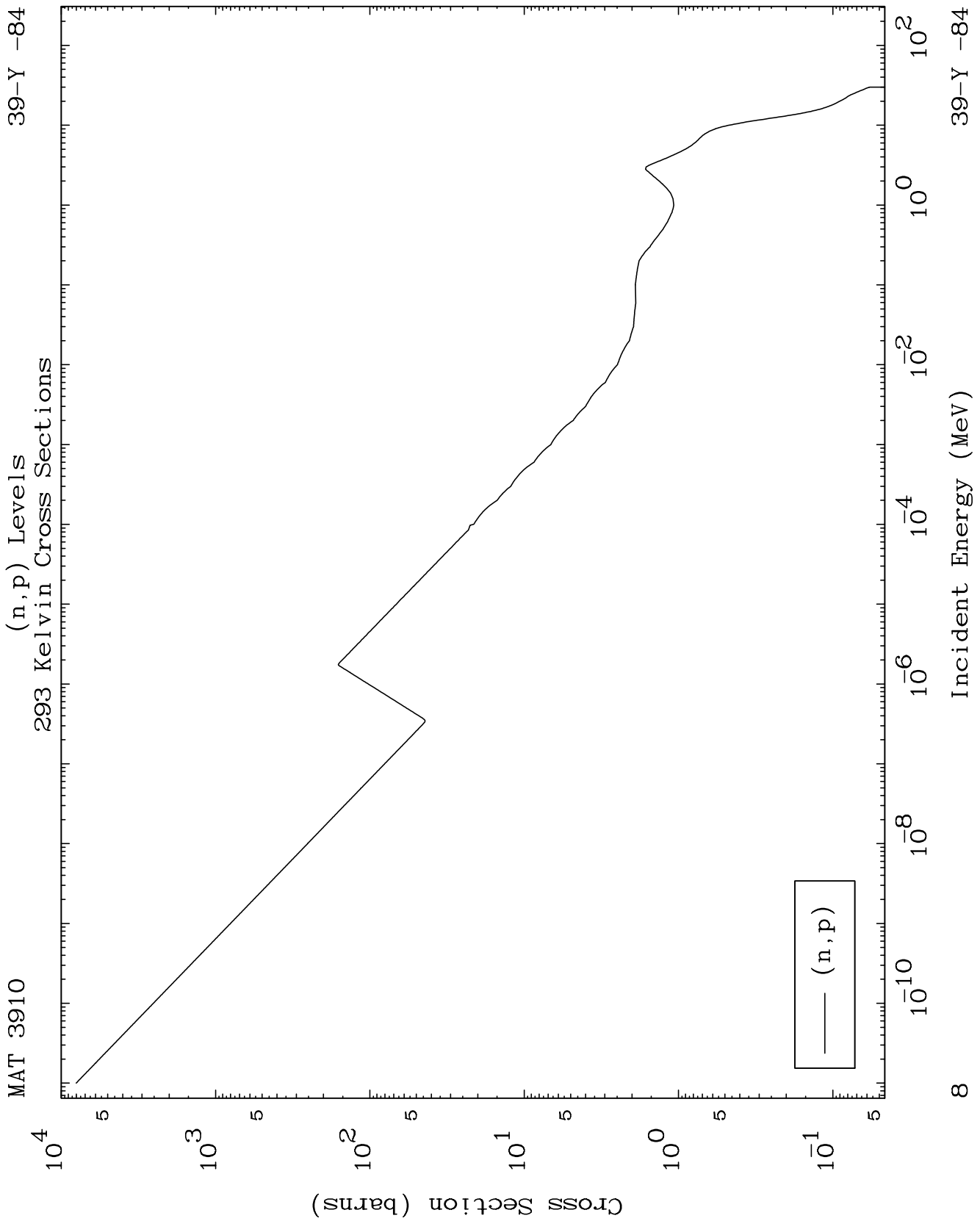
39-Y -84







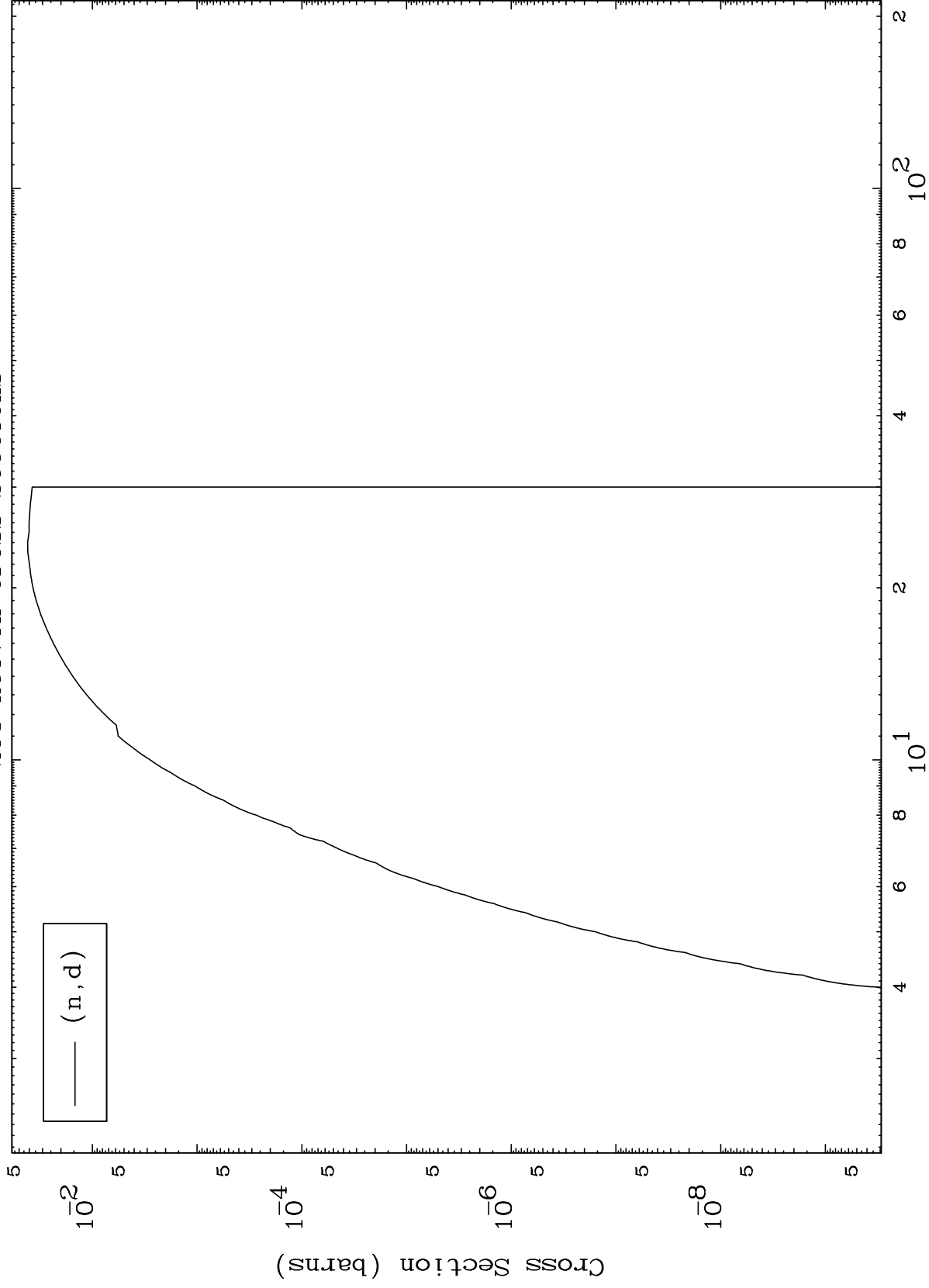




MAT 3910

(n,d) Levels  
293 Kelvin Cross Sections

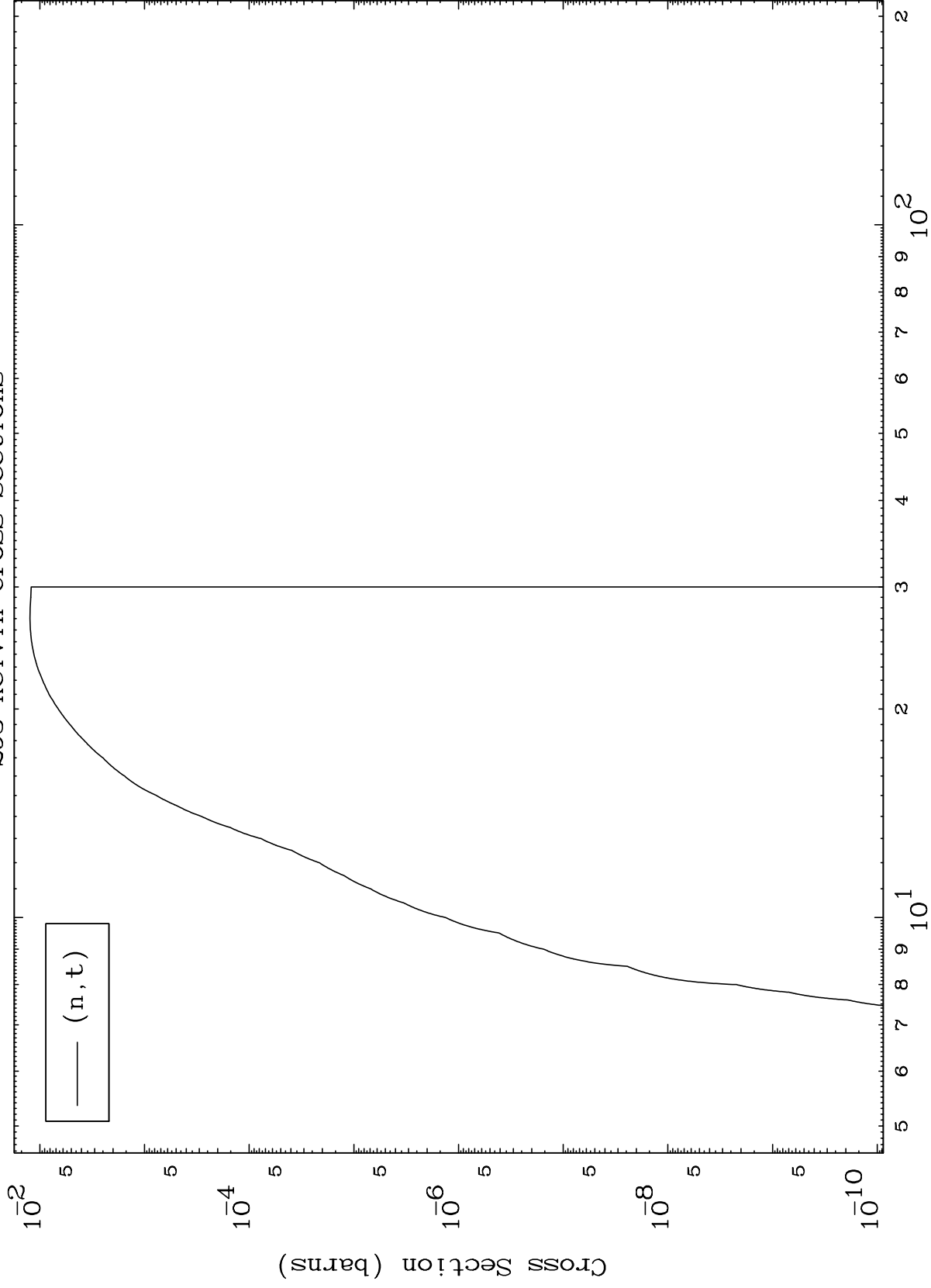
39-Y -84



MAT 3910

(n,t) Levels  
293 Kelvin Cross Sections

39-Y -84



10

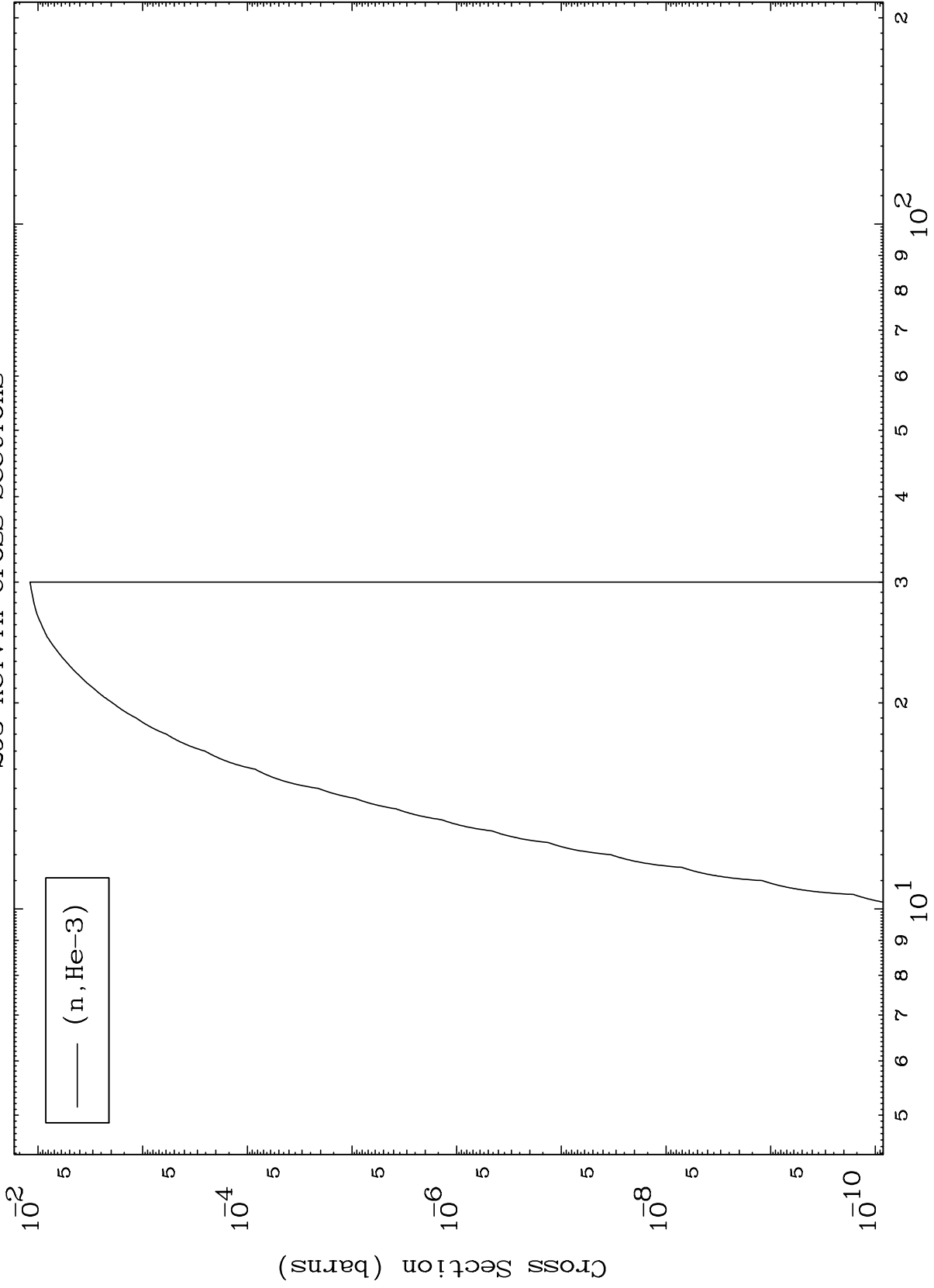
Incident Energy (MeV)

39-Y -84

MAT 3910

(n,He3) Levels  
293 Kelvin Cross Sections

39-Y -84



11

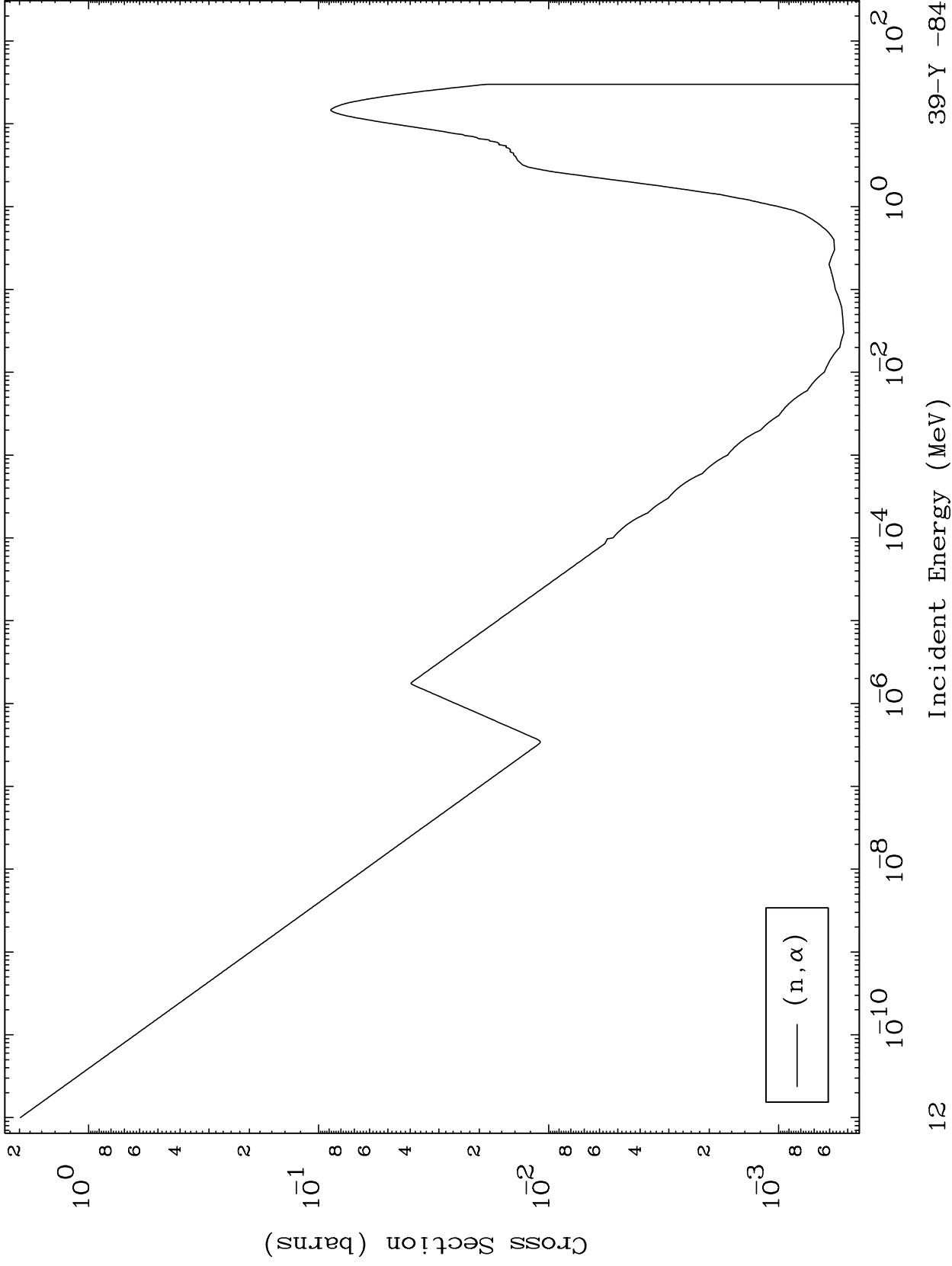
Incident Energy (MeV)

39-Y -84

MAT 3910

(n,α) Levels  
293 Kelvin Cross Sections

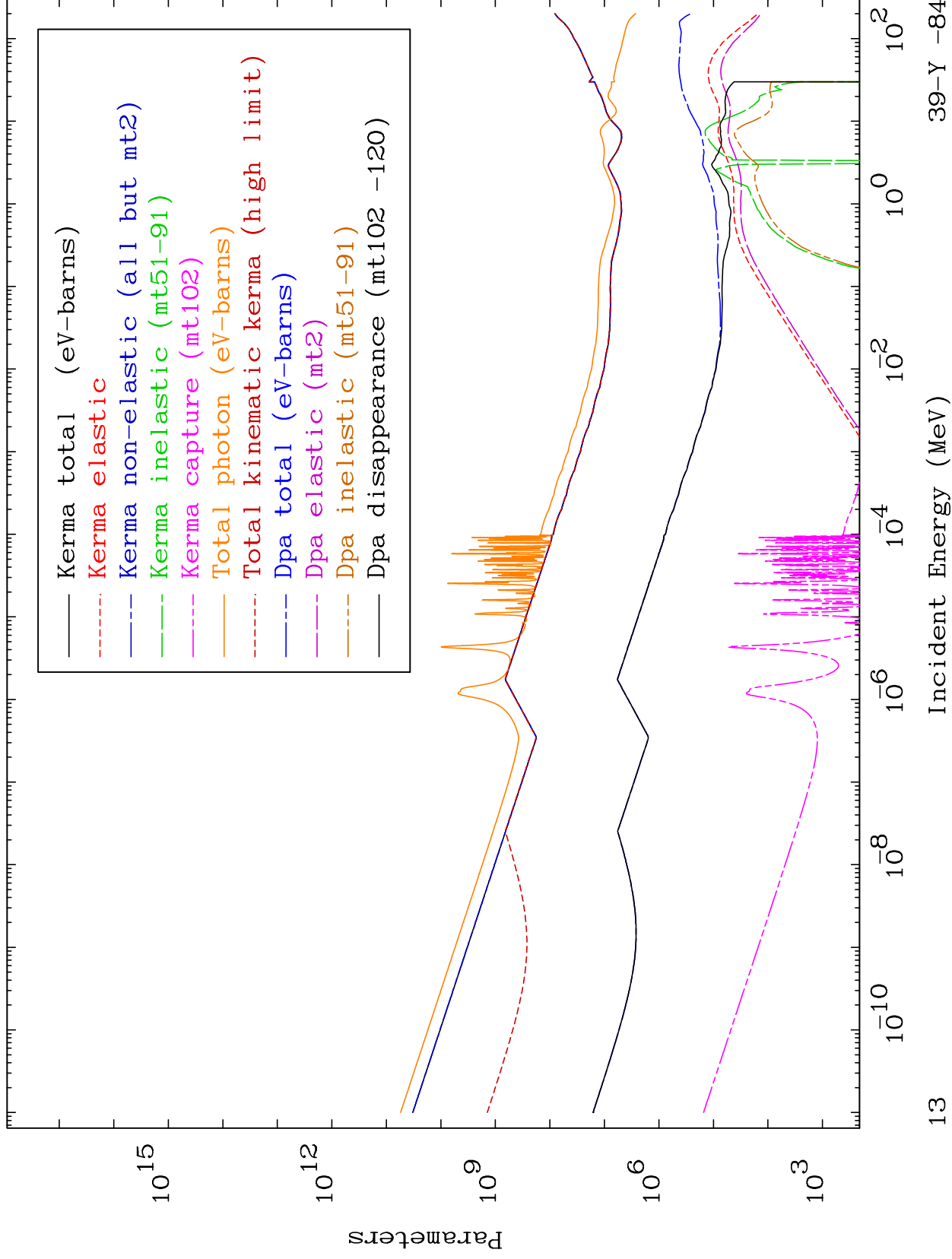
39-Y -84

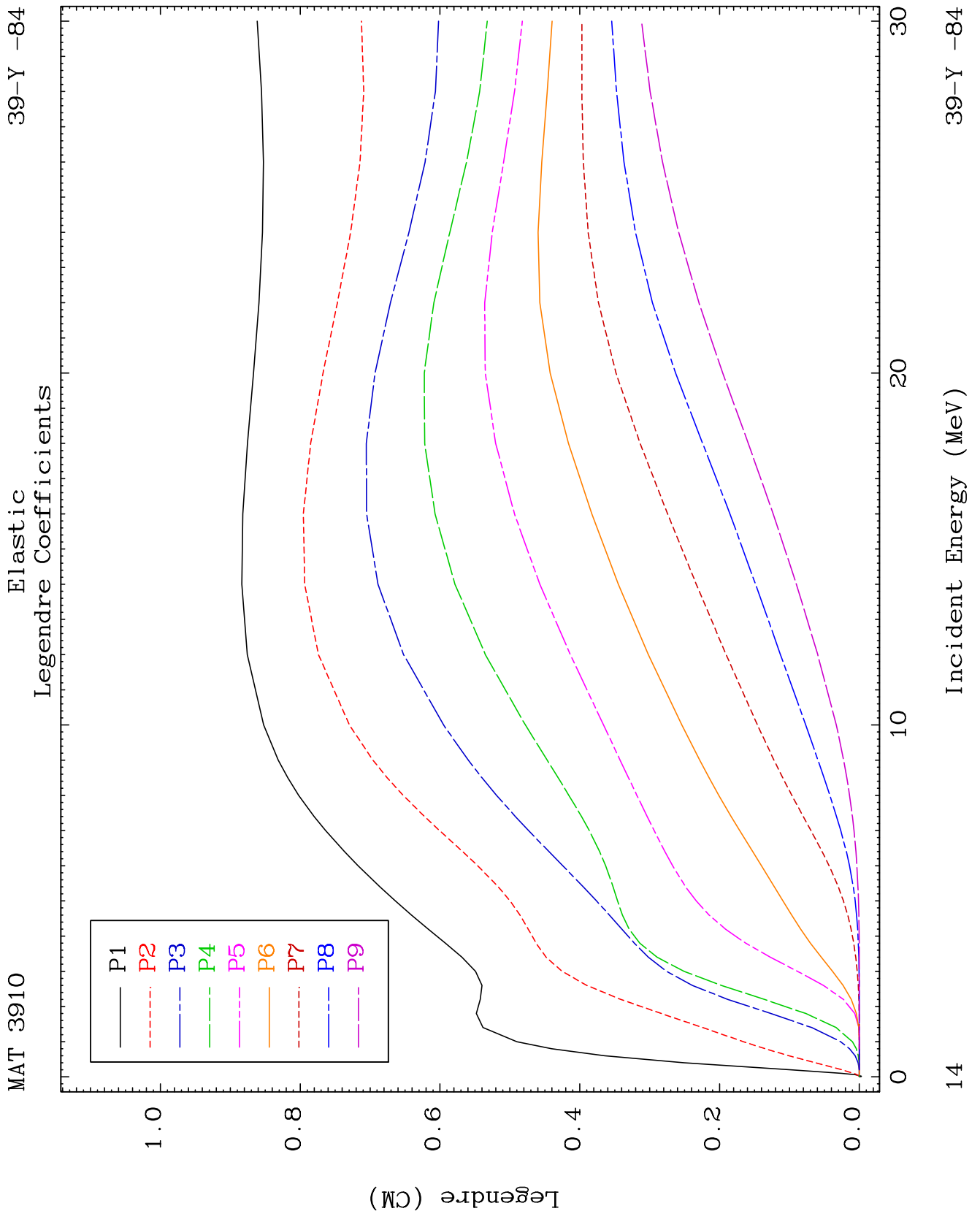


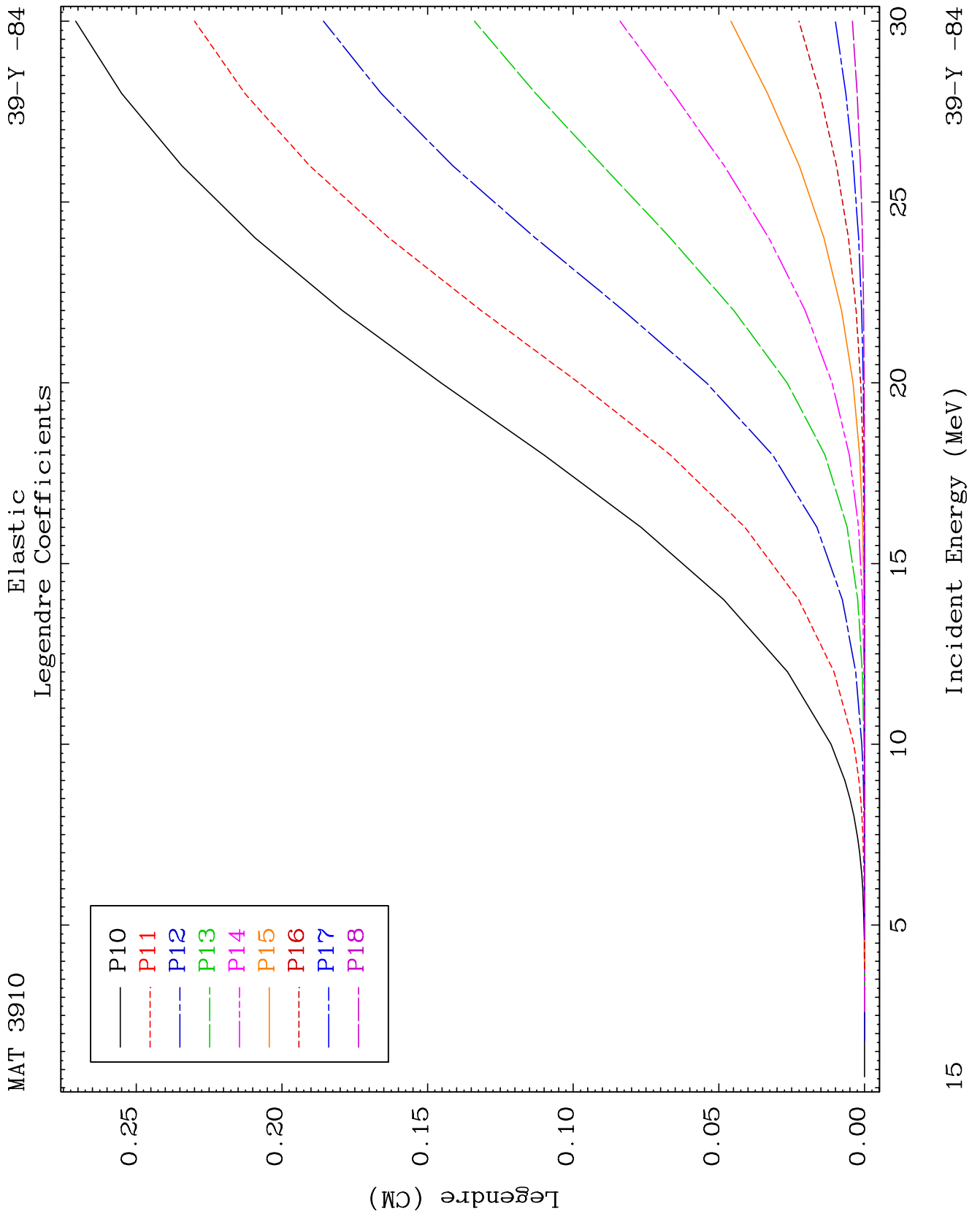
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Incident Energy (MeV)

39-Y -84







39-Y -84

39-Y -84

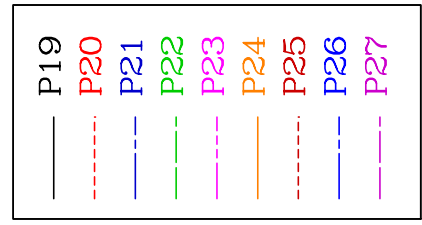
15



MAT 3910

### Elastic Legendre Coefficients

39-Y -84



$\times 10^{-3}$   
1.5  
1.0

Legendre (CM)

0.5

0.0

10

15

20

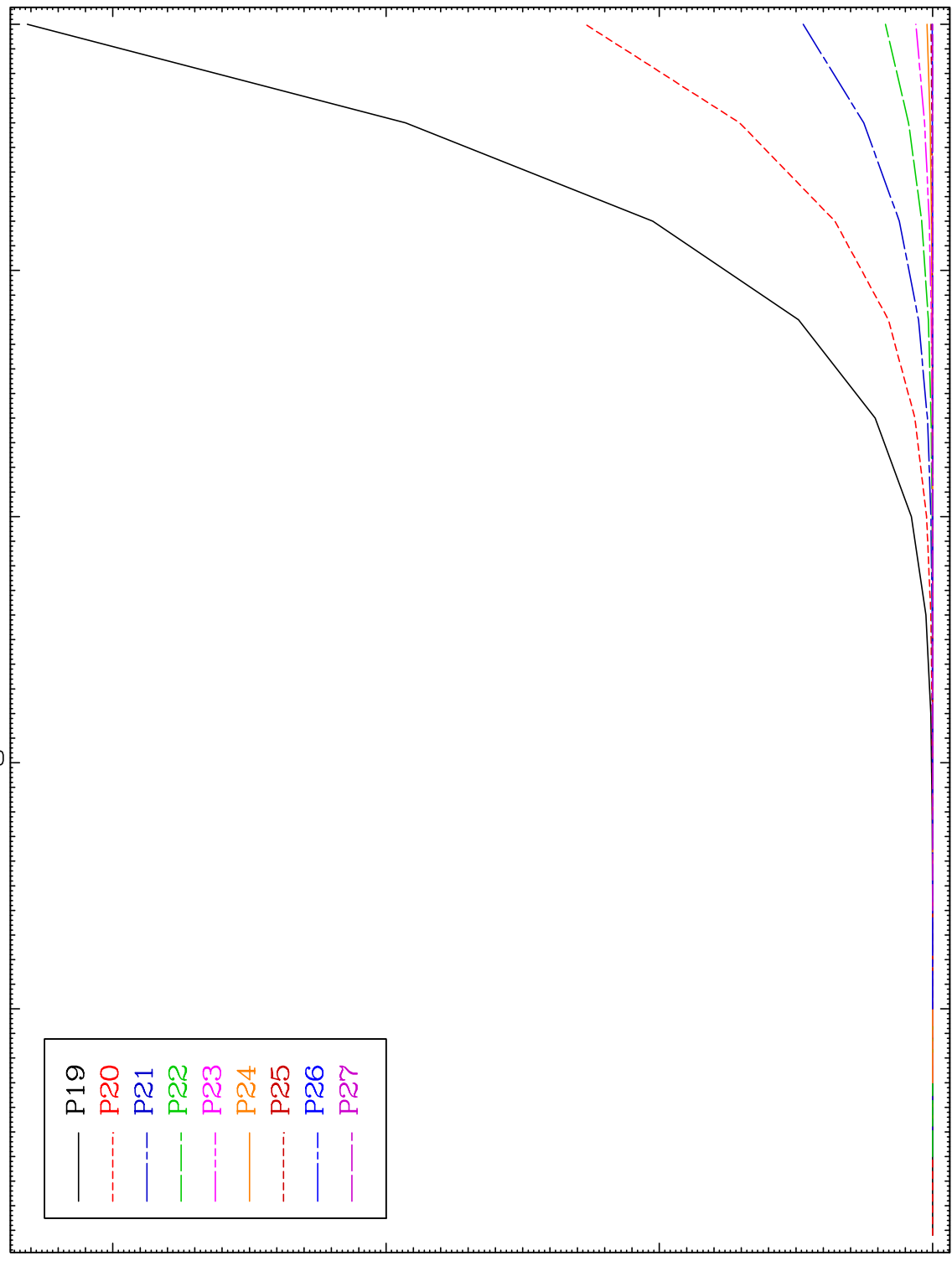
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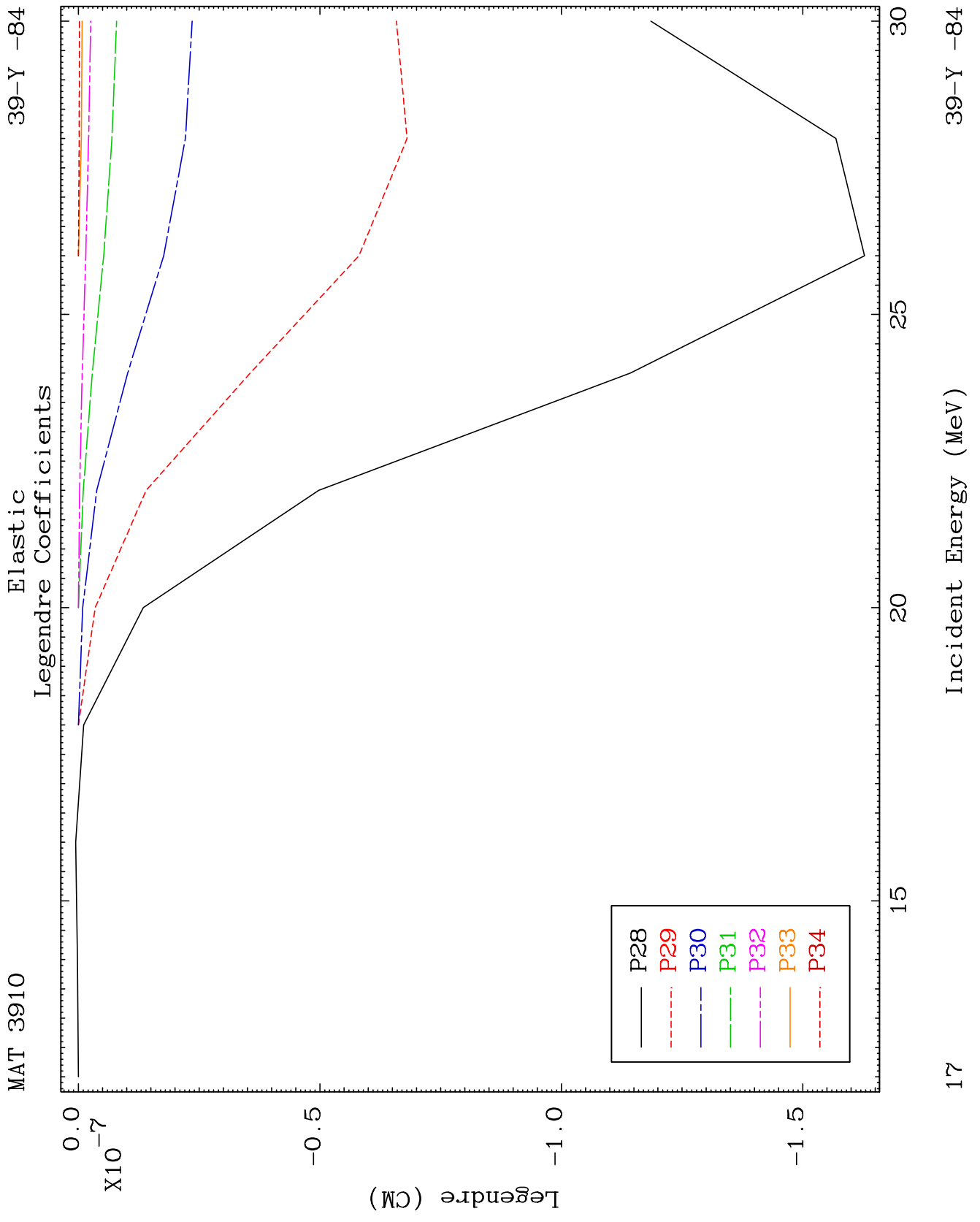
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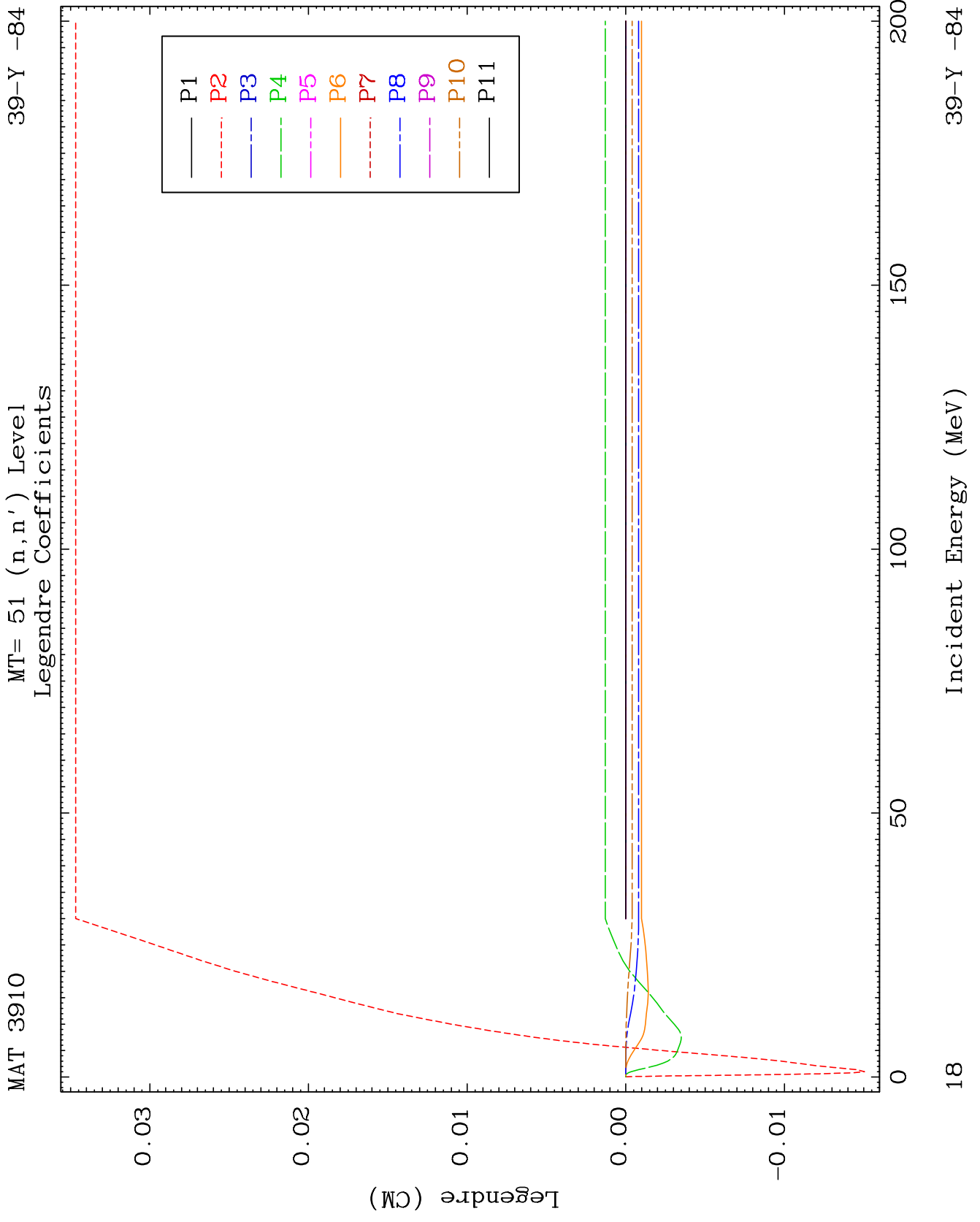
16

Incident Energy (MeV)

39-Y -84



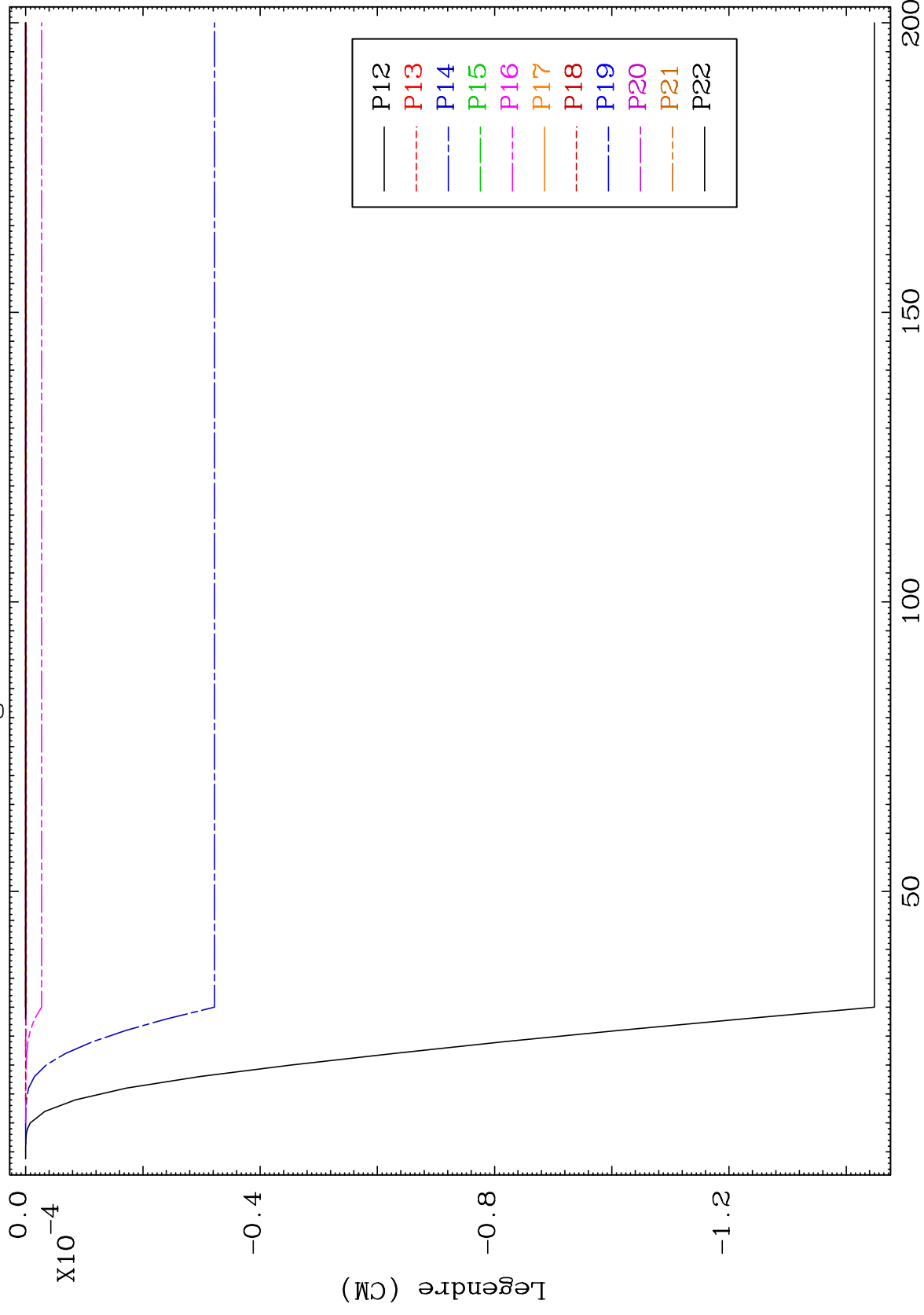




MAT 3910

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

39-Y -84



39-Y -84

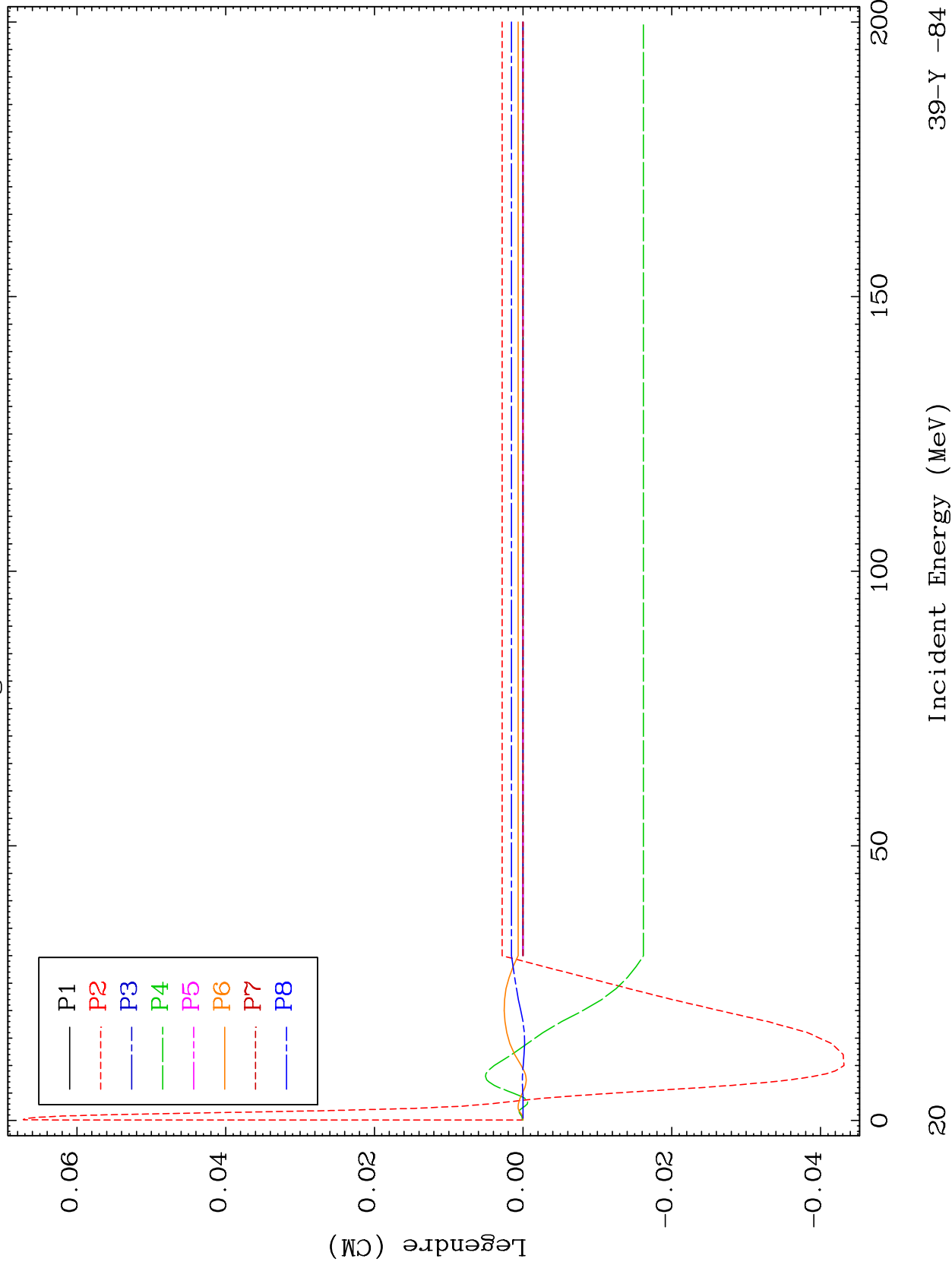
Incident Energy (MeV)

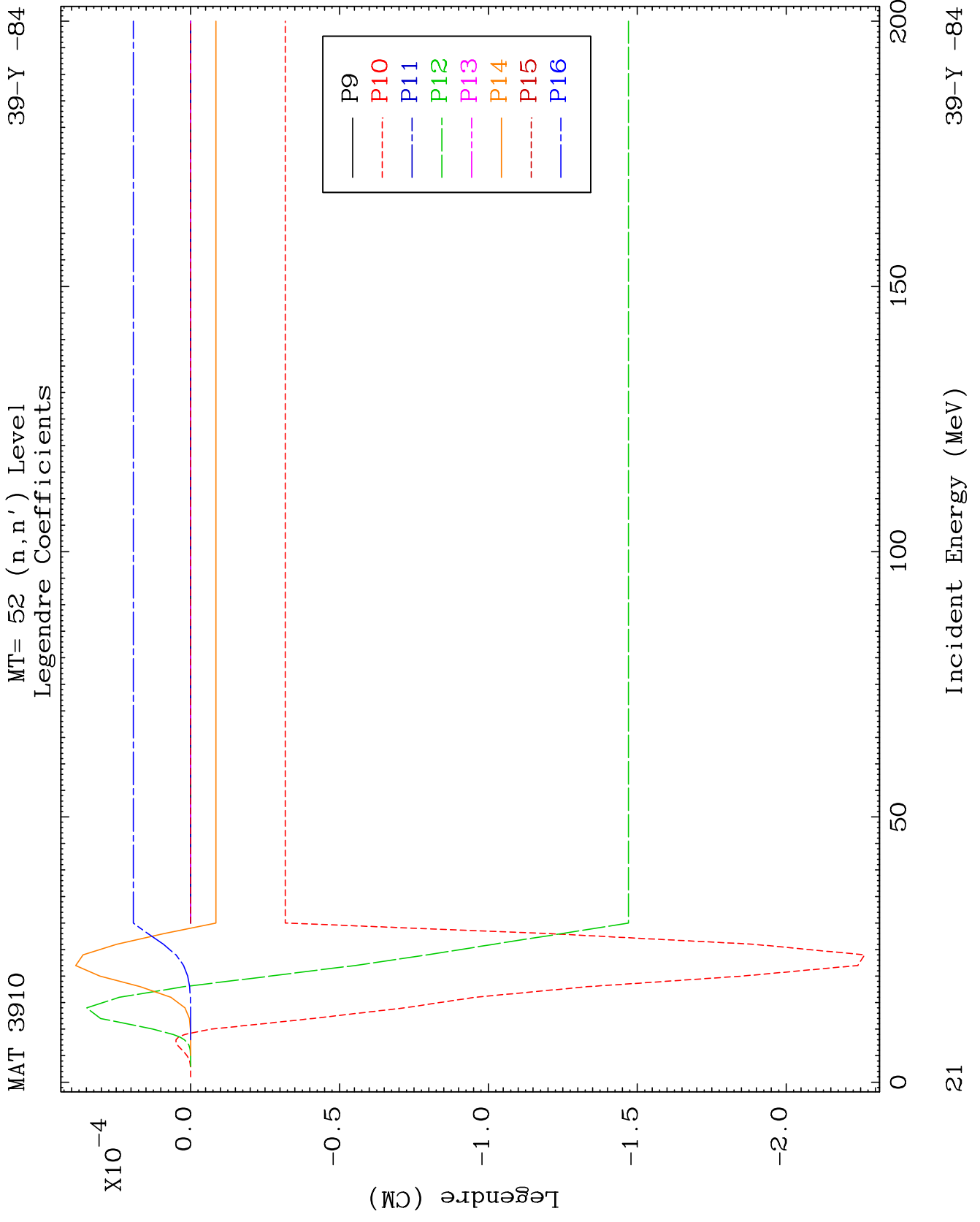
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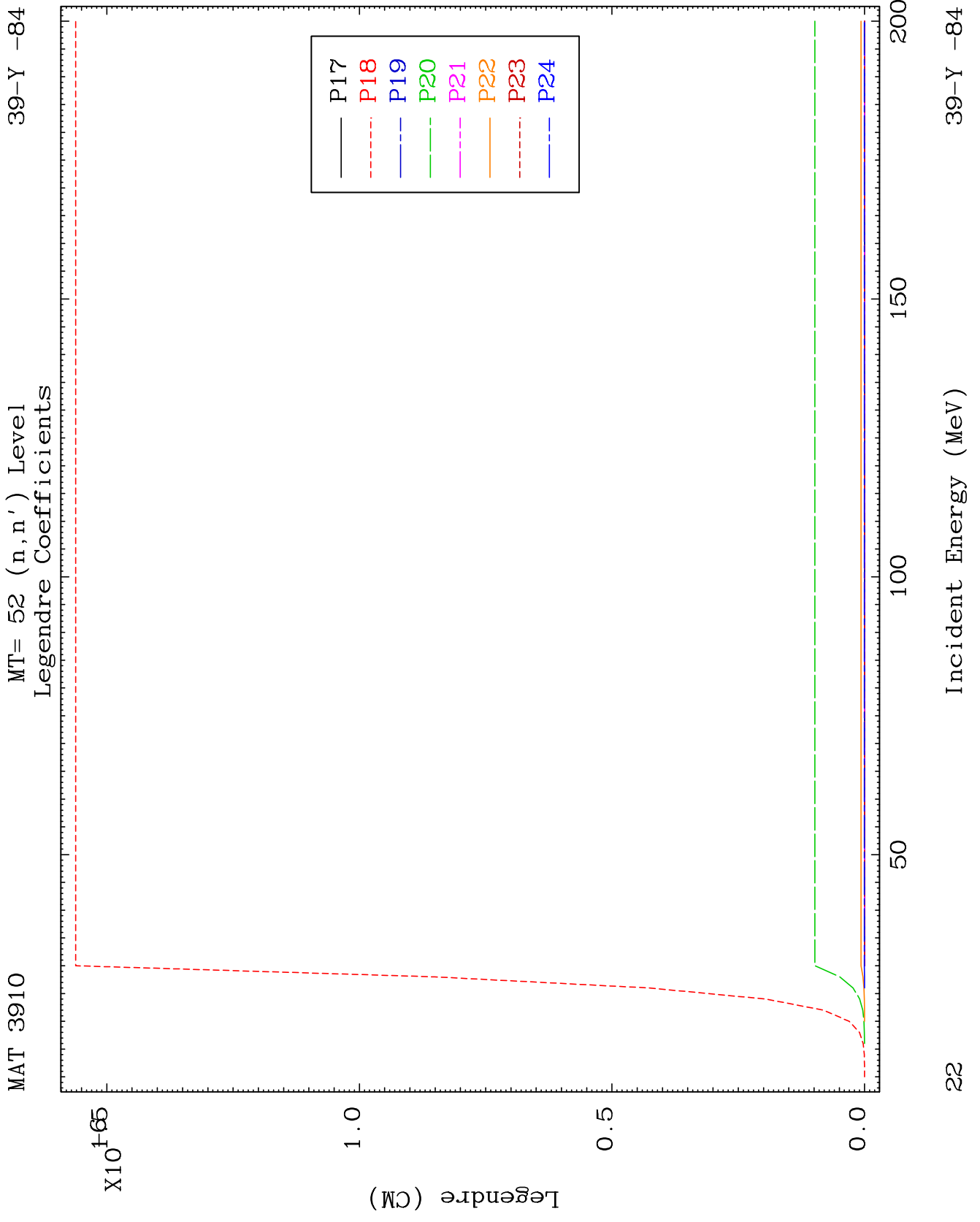
MAT 3910

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

39-Y -84



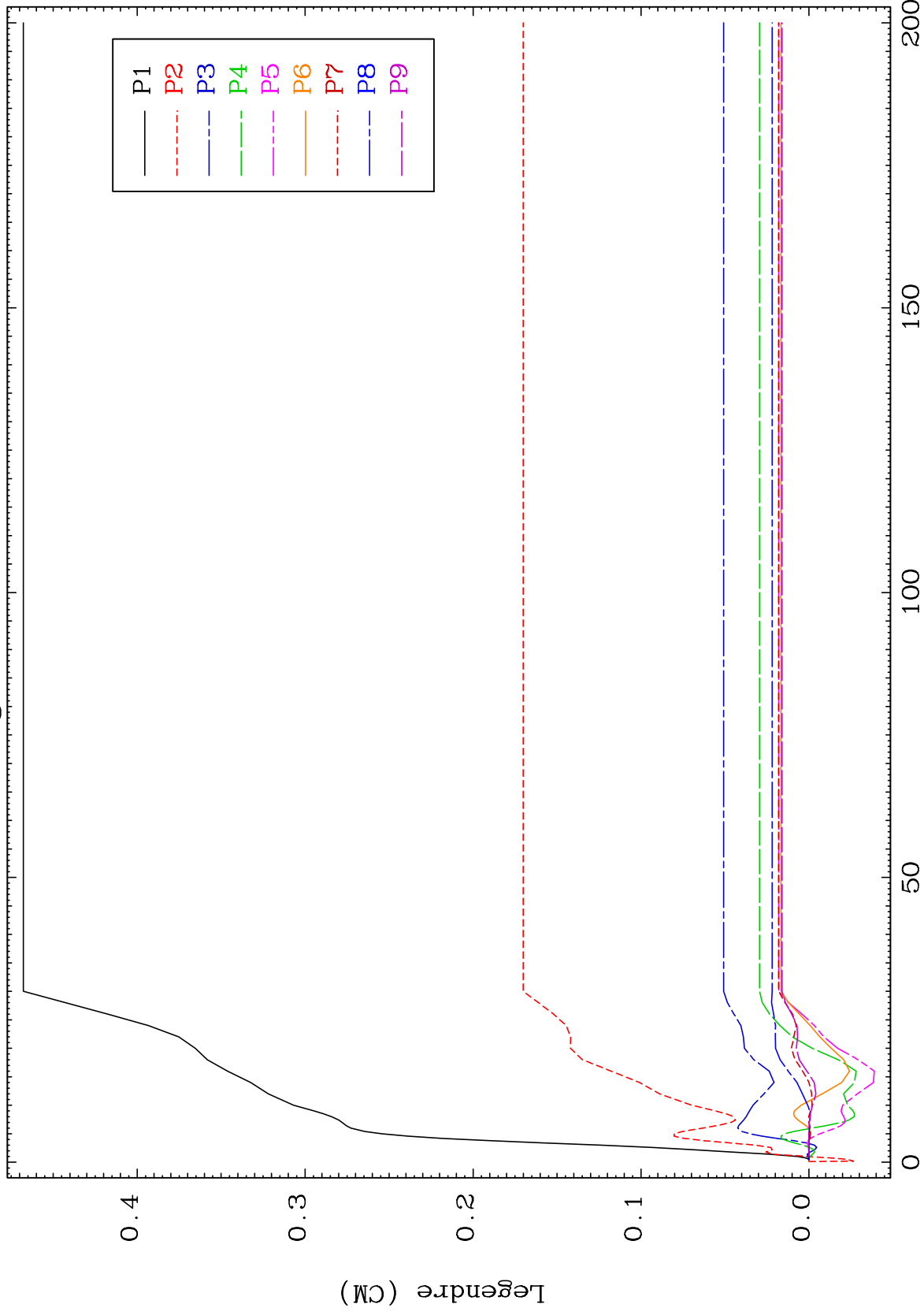




MAT 3910

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

39-Y -84



23

Incident Energy (MeV)

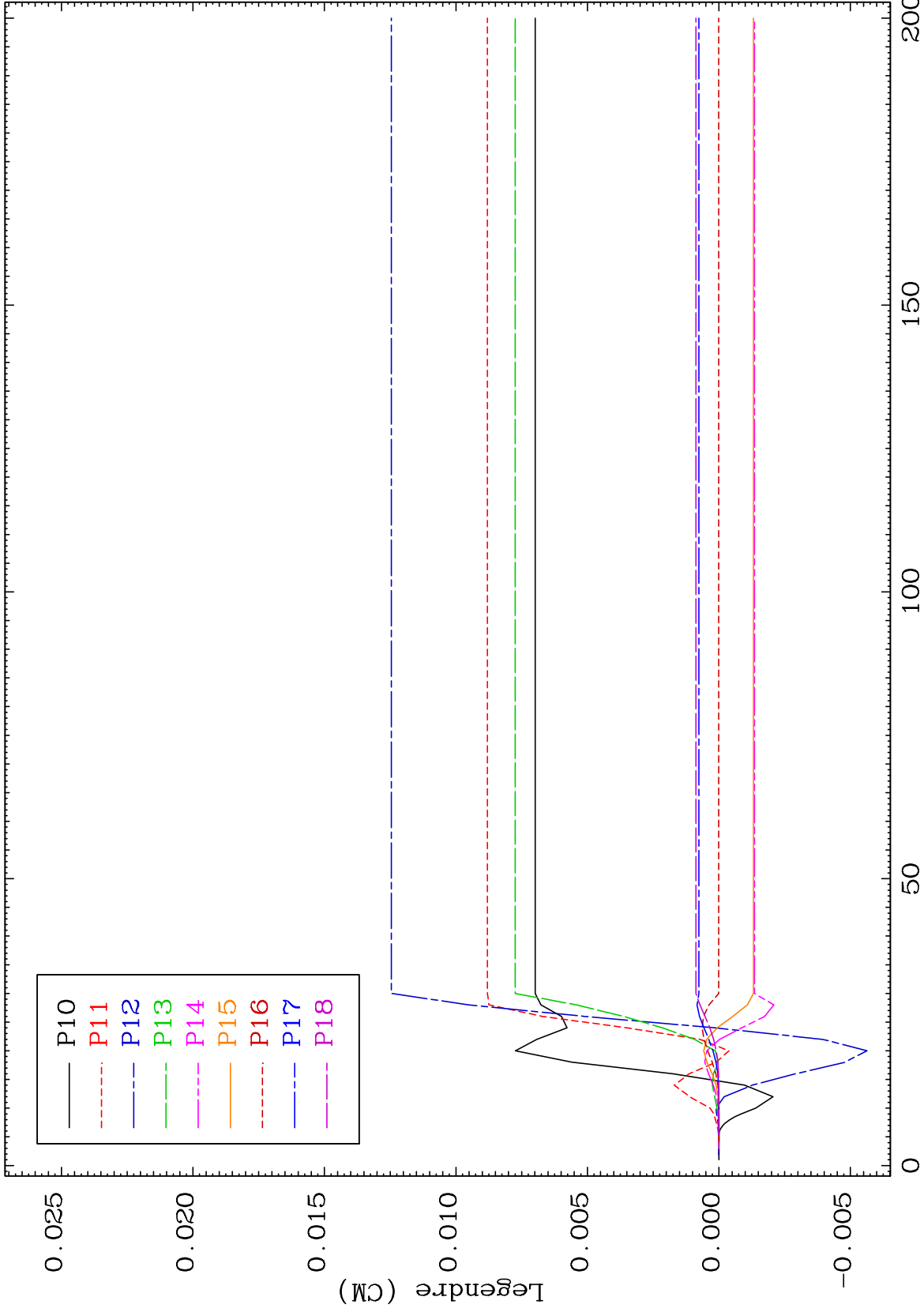
39-Y -84



MAT 3910

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

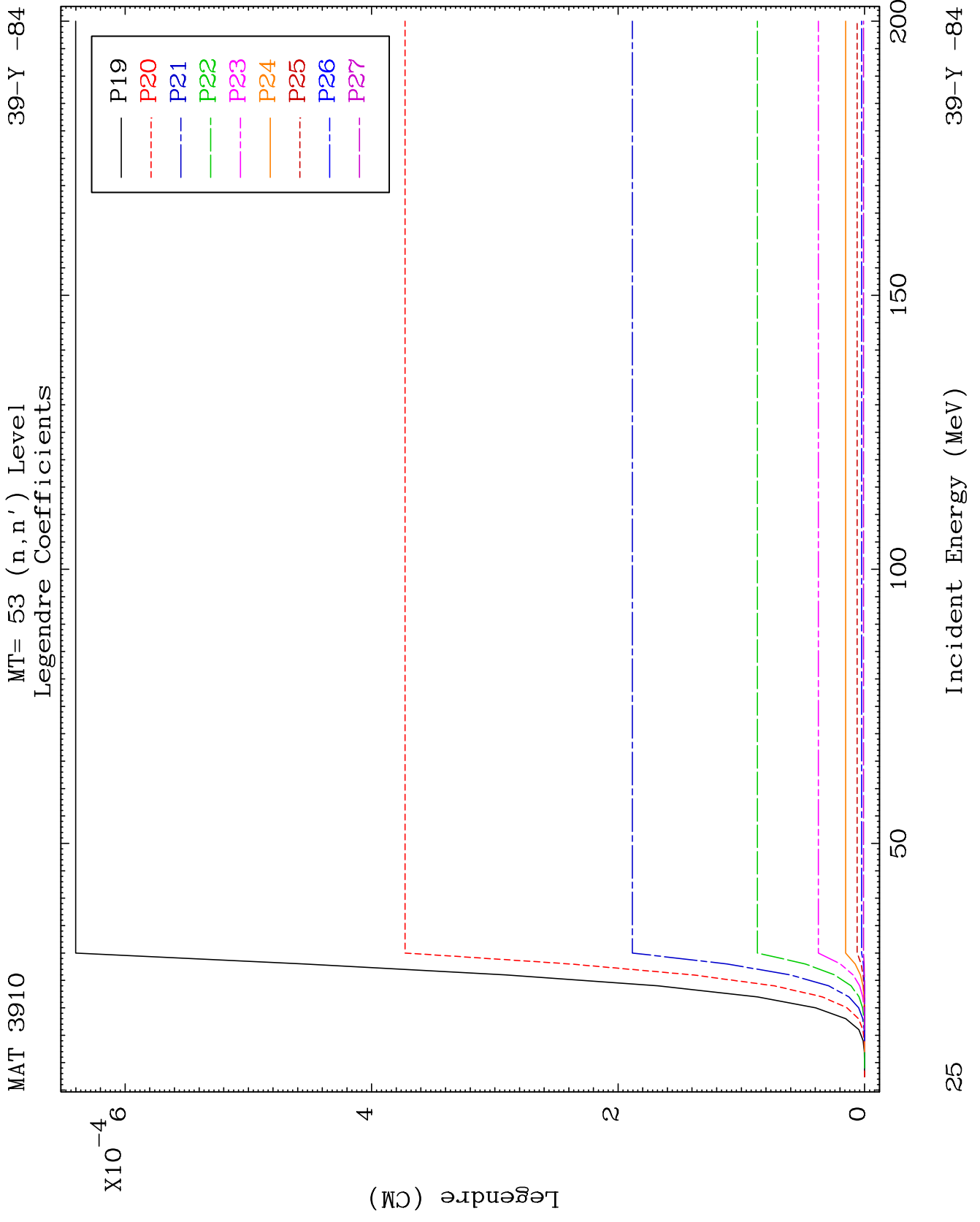
39-Y -84



24

Incident Energy (MeV)

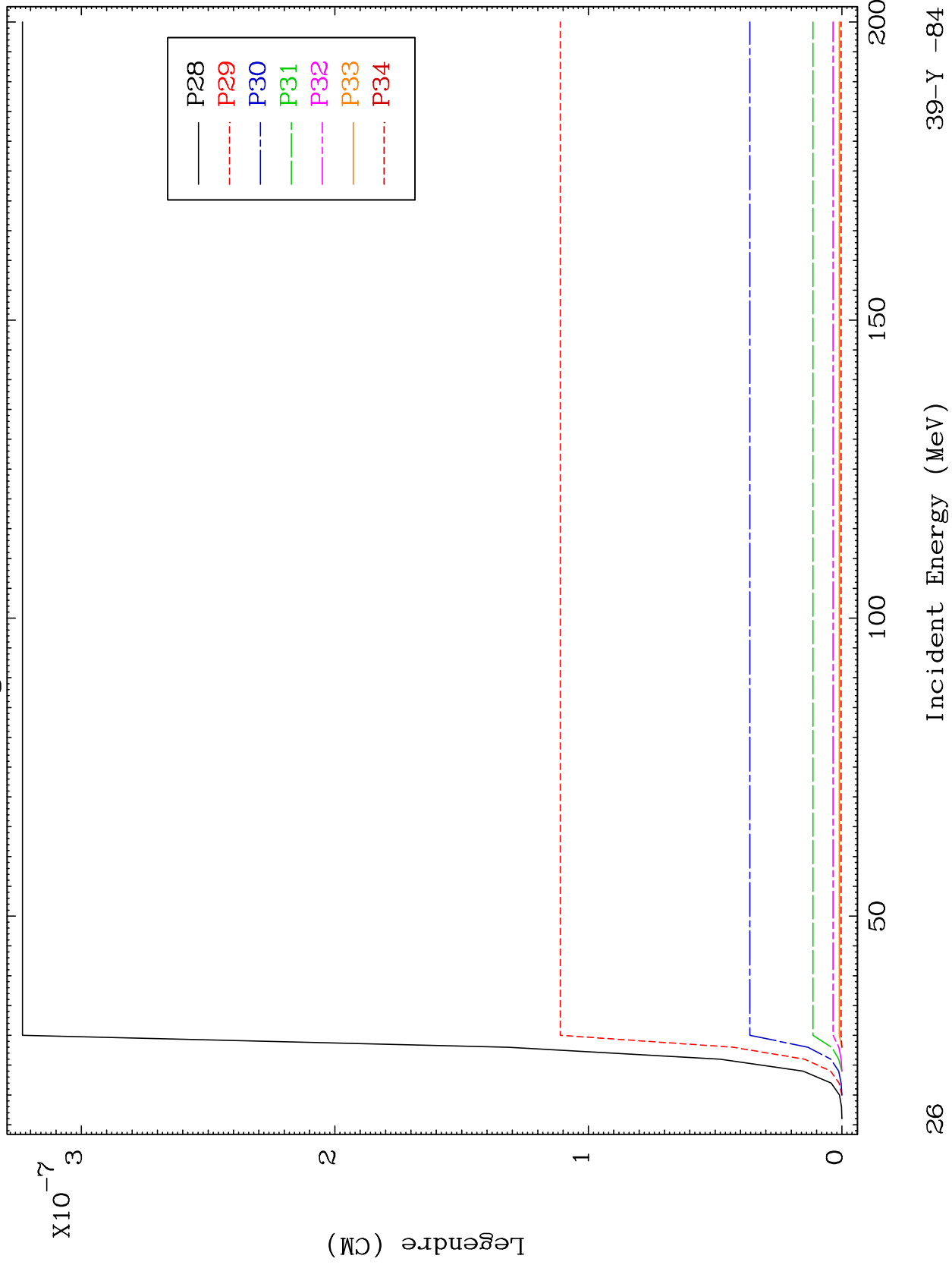
39-Y -84



MAT 3910

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

39-Y -84



26

Incident Energy (MeV)

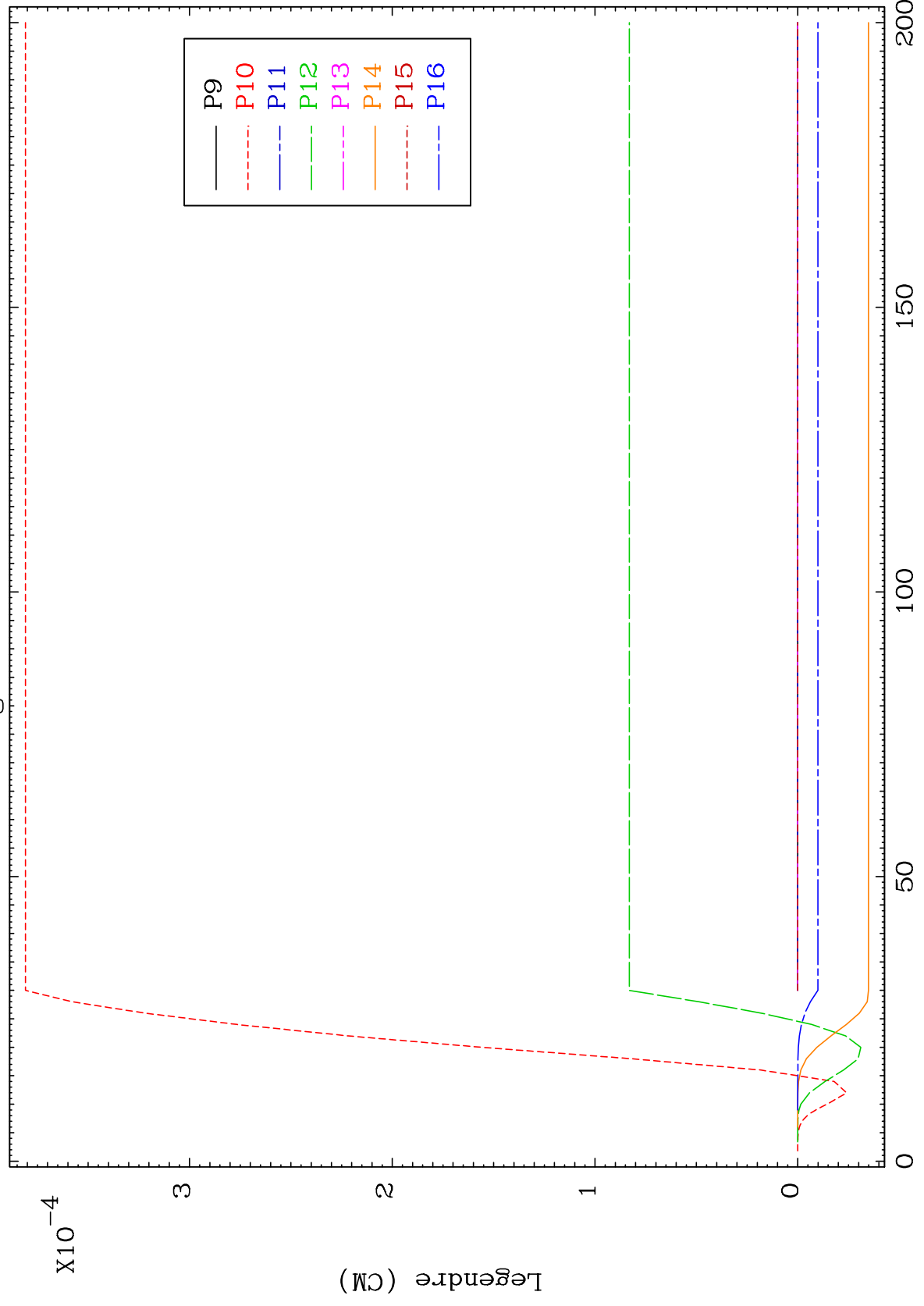
39-Y -84



MAT 3910

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

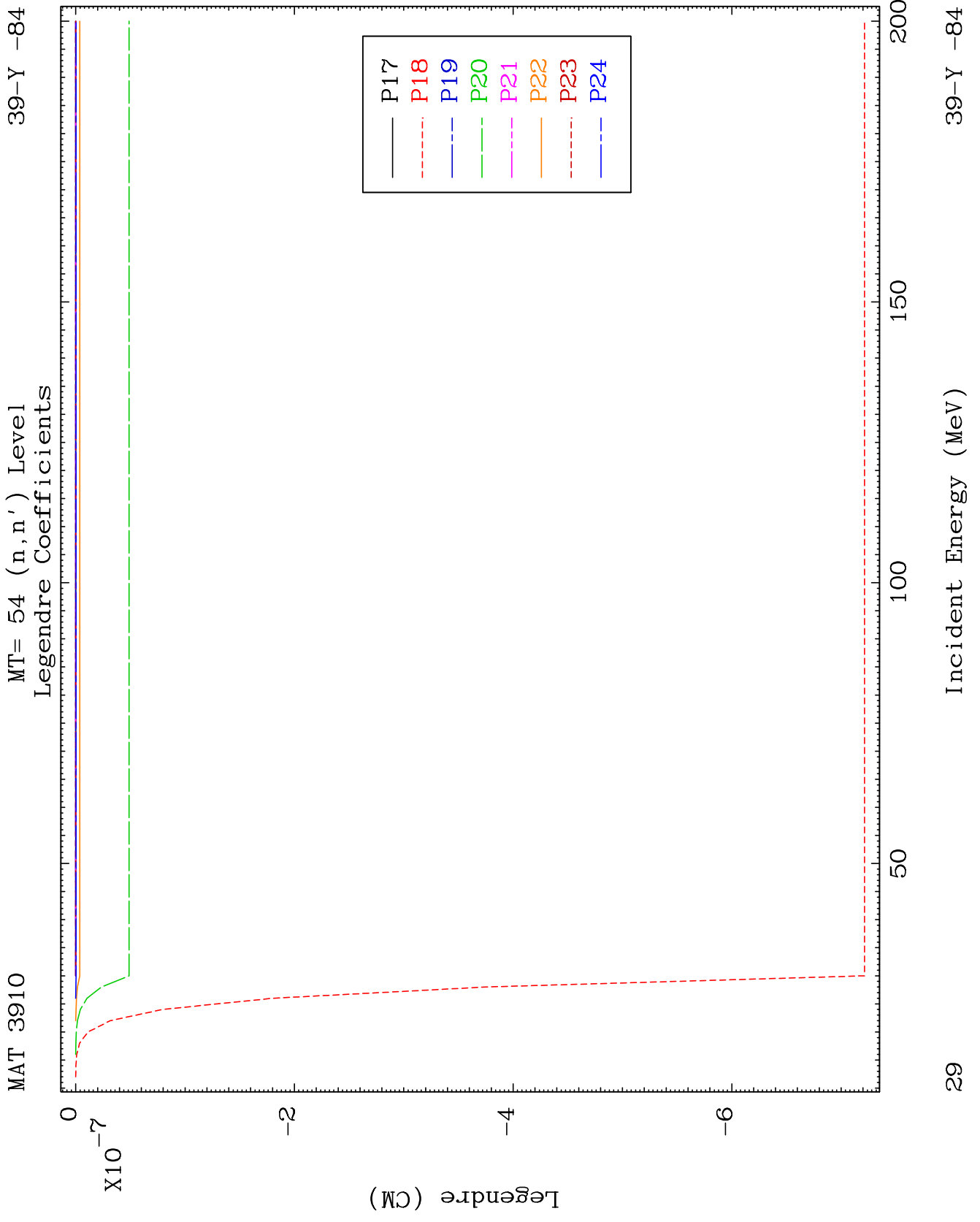
39-Y -84

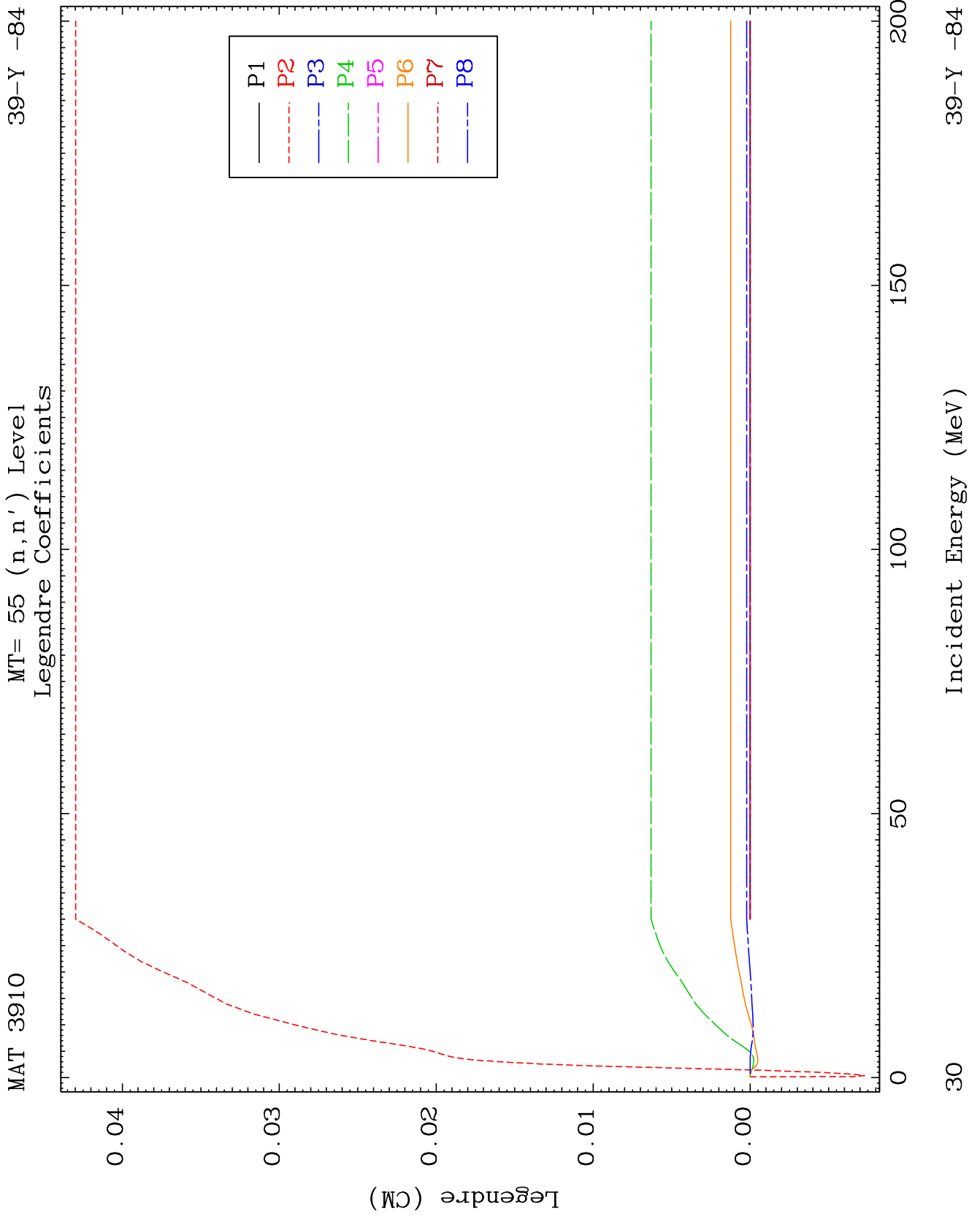


28

Incident Energy (MeV)

39-Y -84

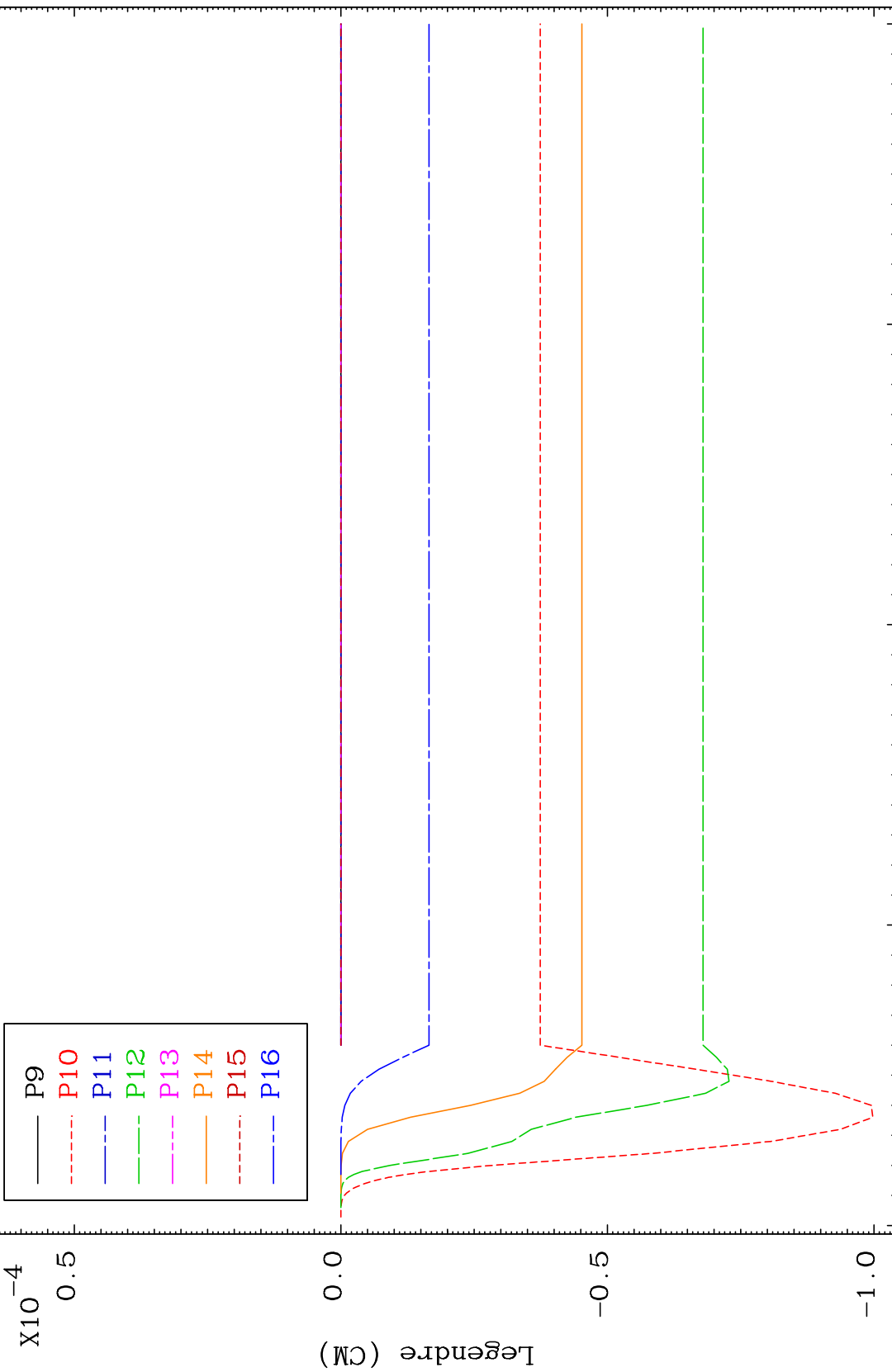
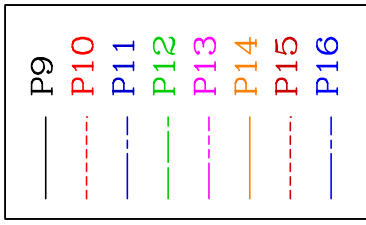




MAT 3910

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

39-Y -84

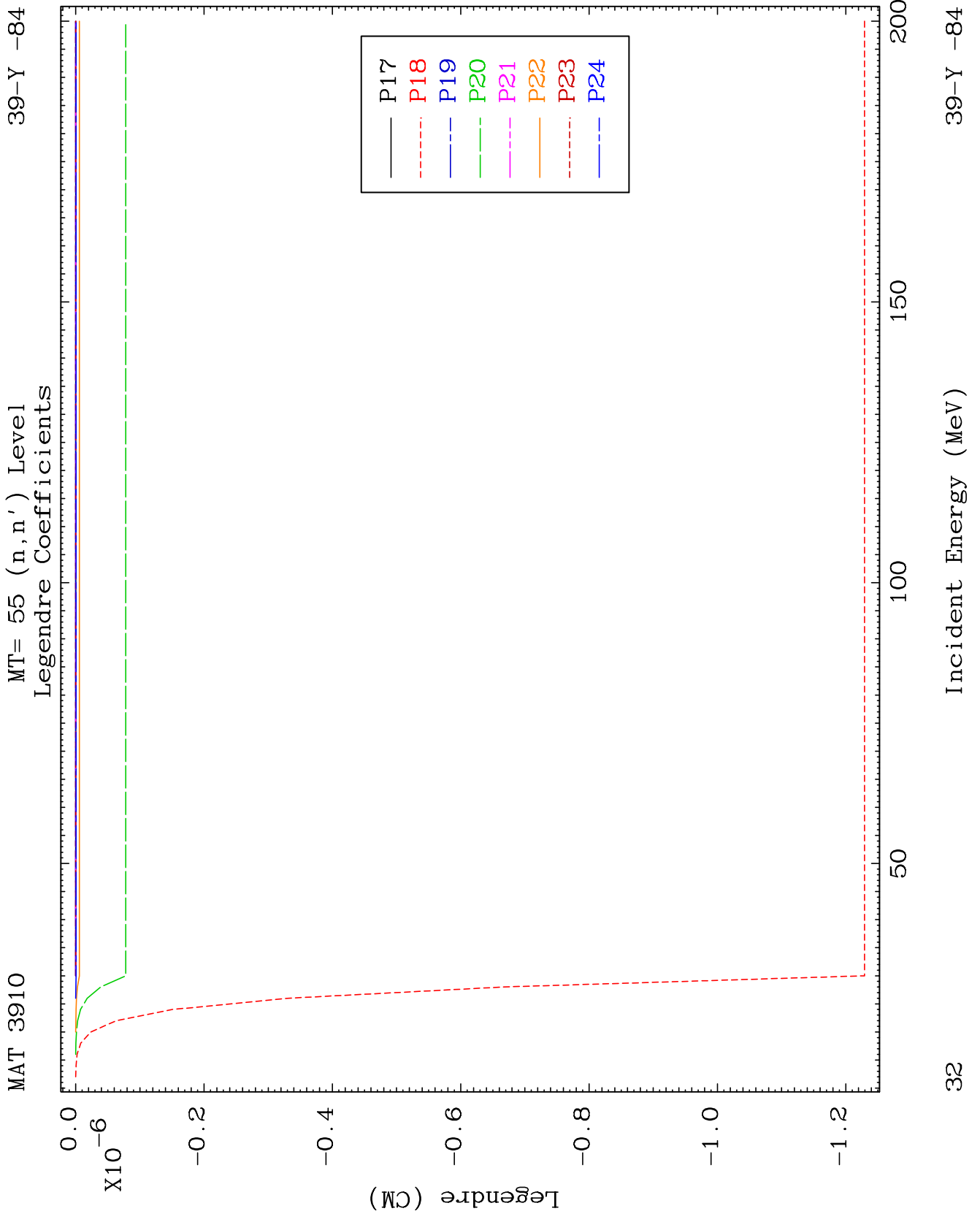


31

Incident Energy (MeV)

39-Y -84

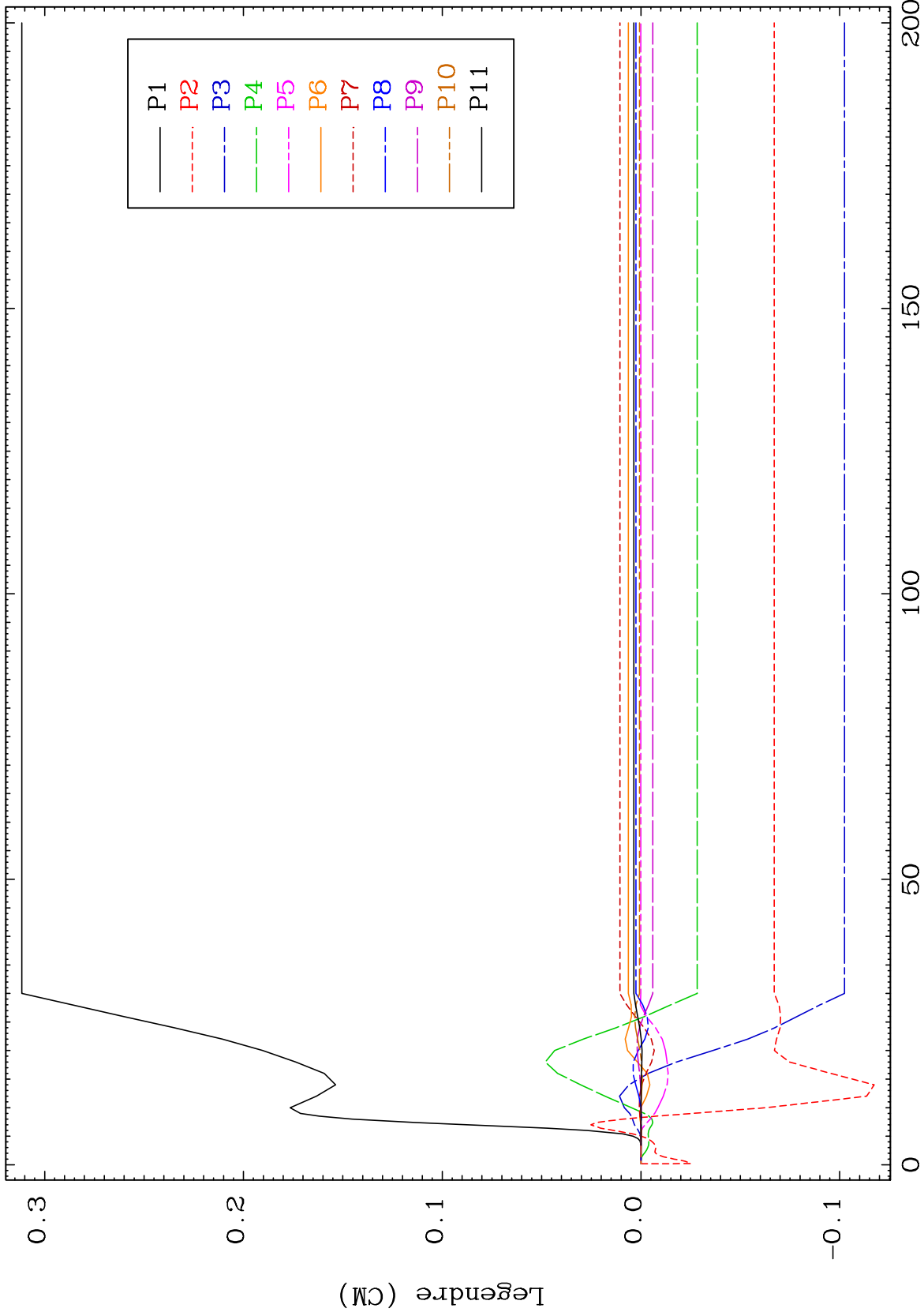




MAT 3910

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

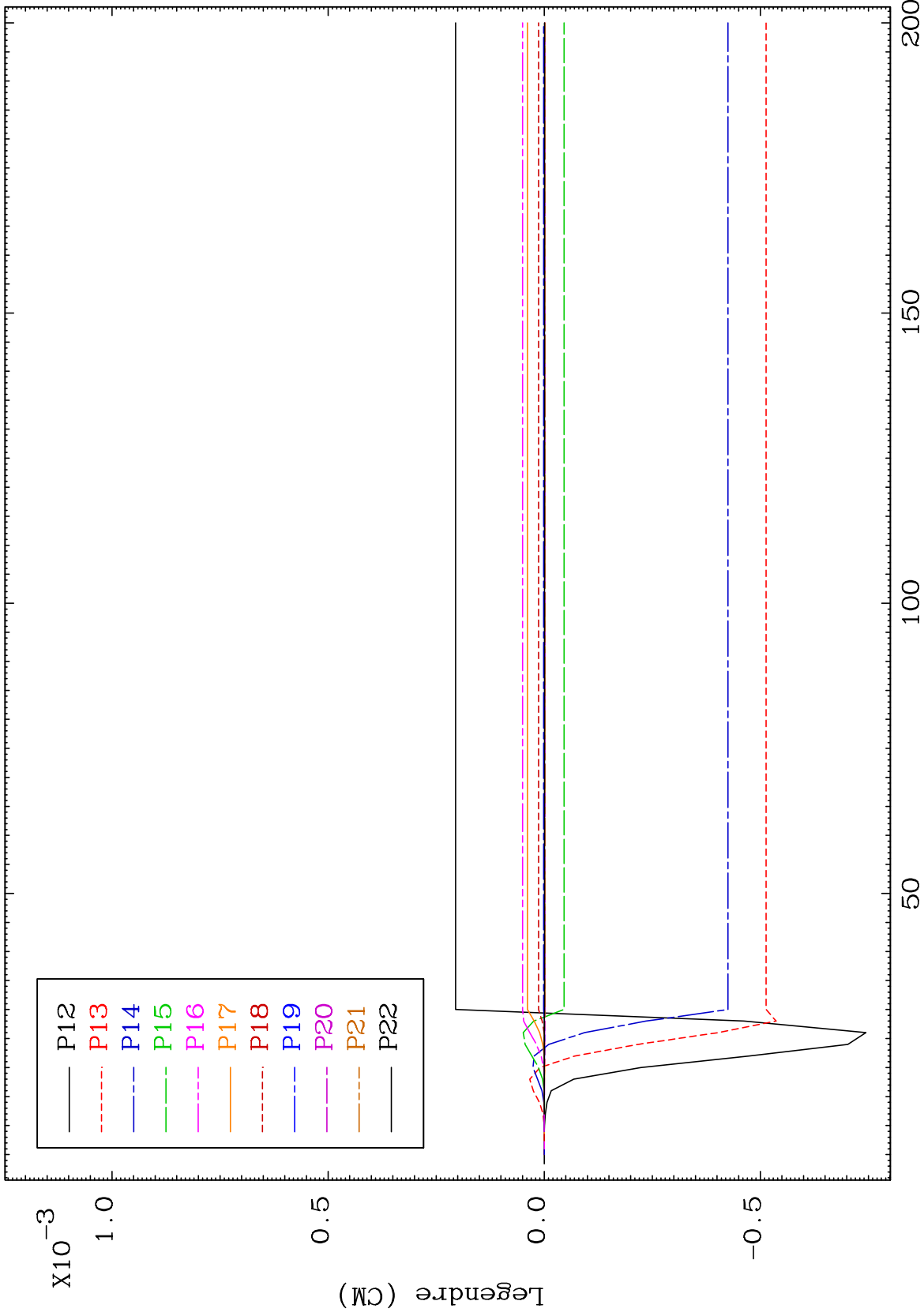
39-Y -84

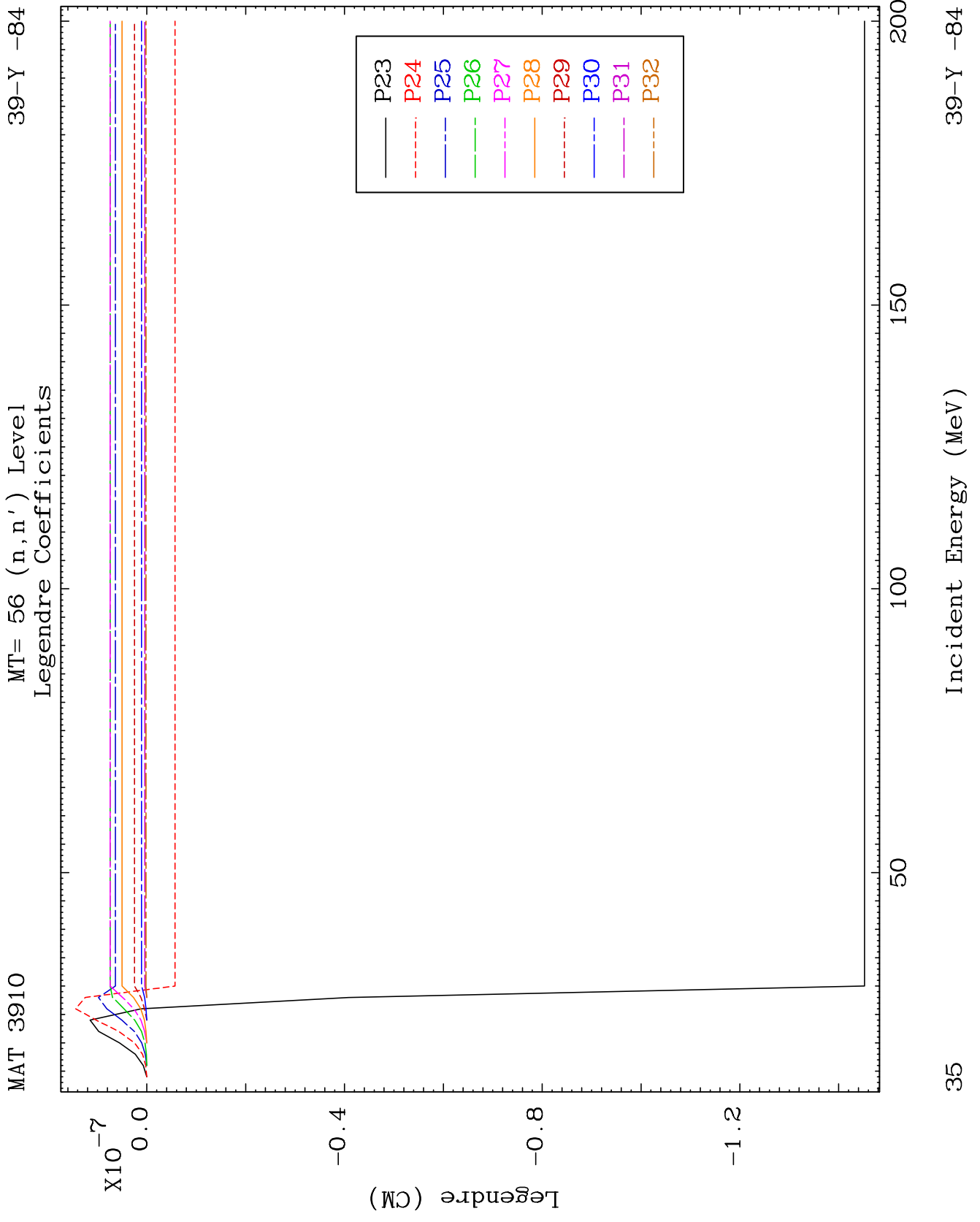


33

Incident Energy (MeV)

39-Y -84

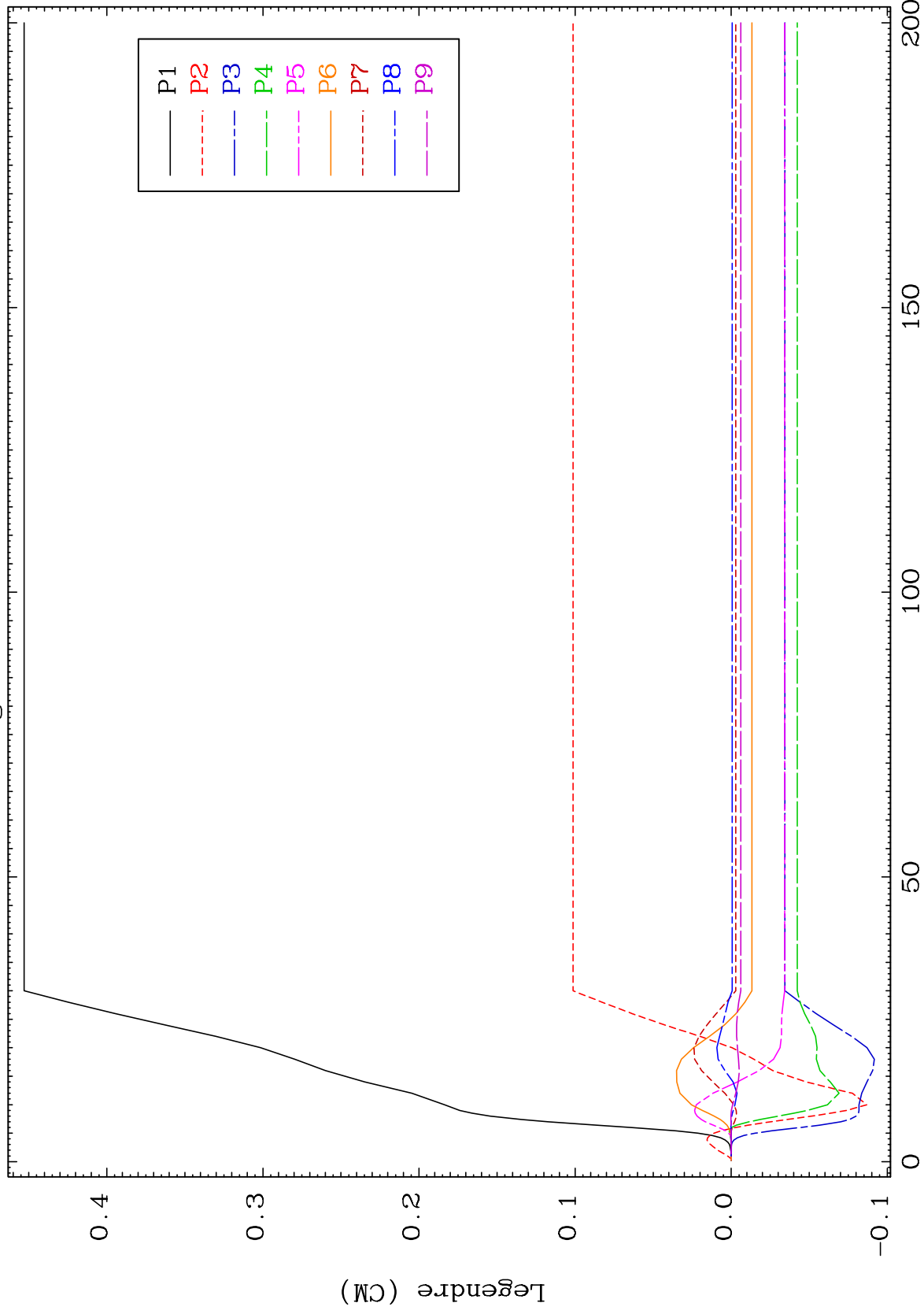




MAT 3910

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

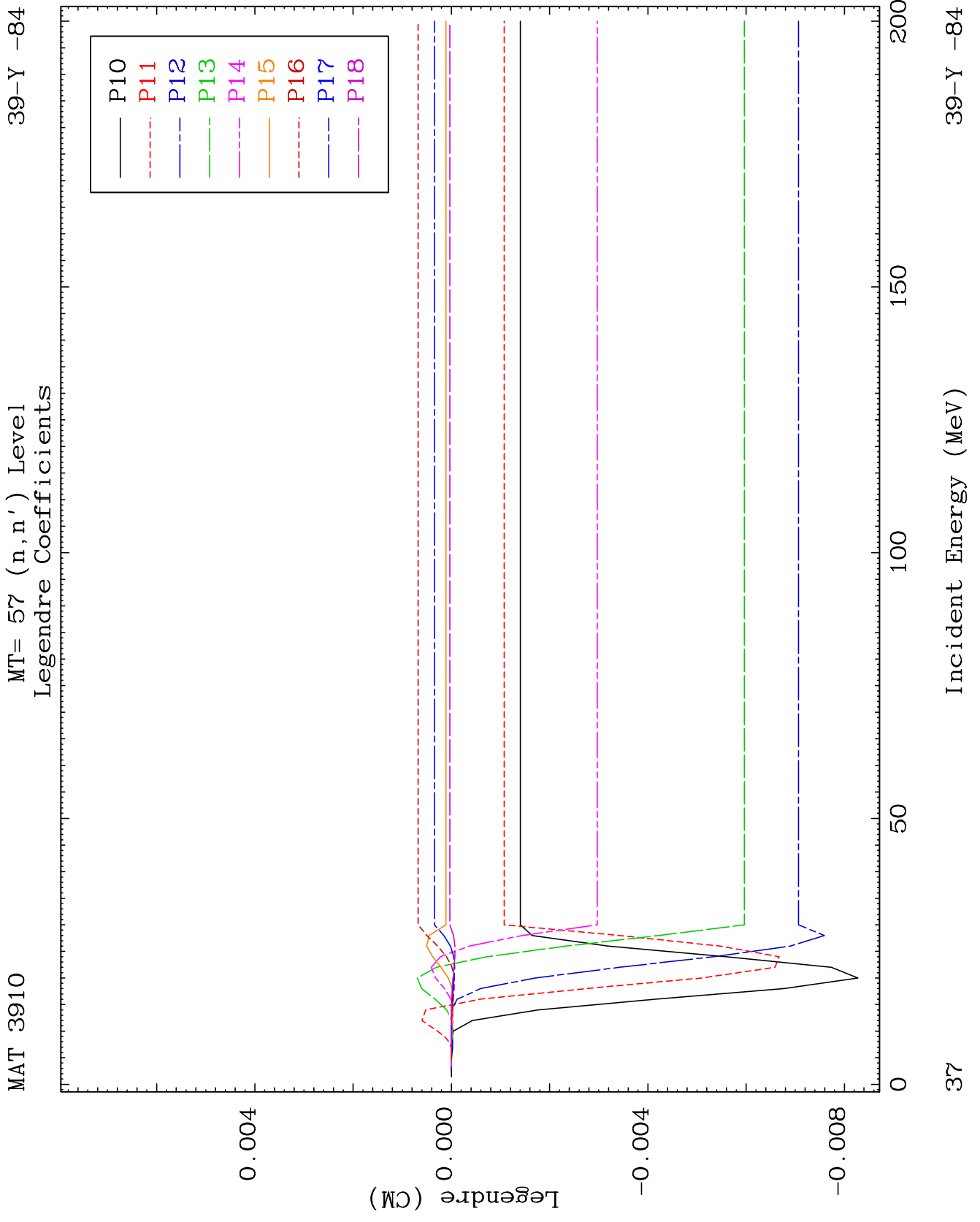
39-Y -84



36

Incident Energy (MeV)

39-Y -84



MAT 3910

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

39-Y -84

$\times 10^{-5}$

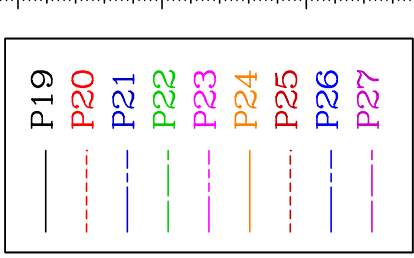
4

0

-4

-8

Legendre (CM)



50

100

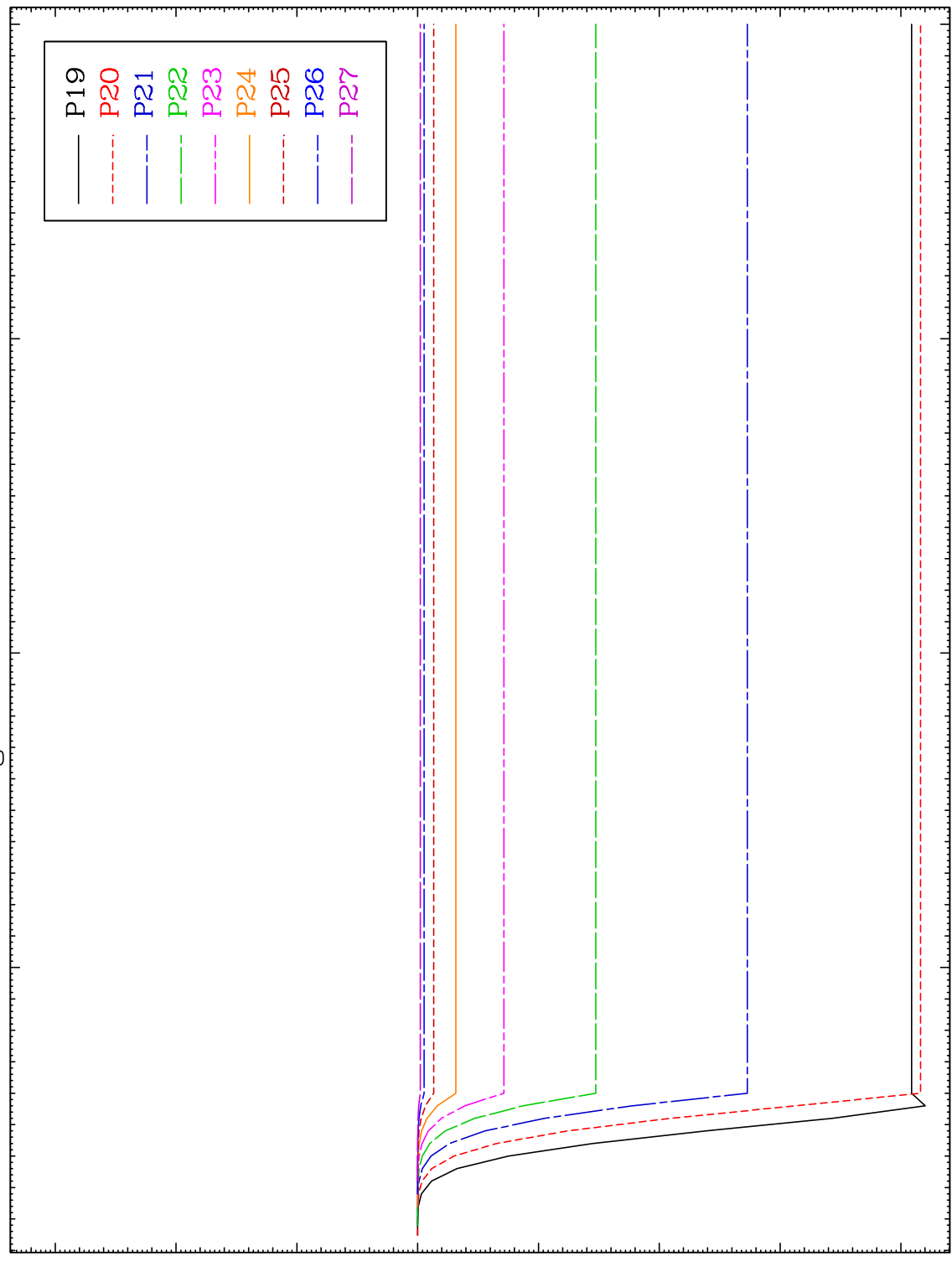
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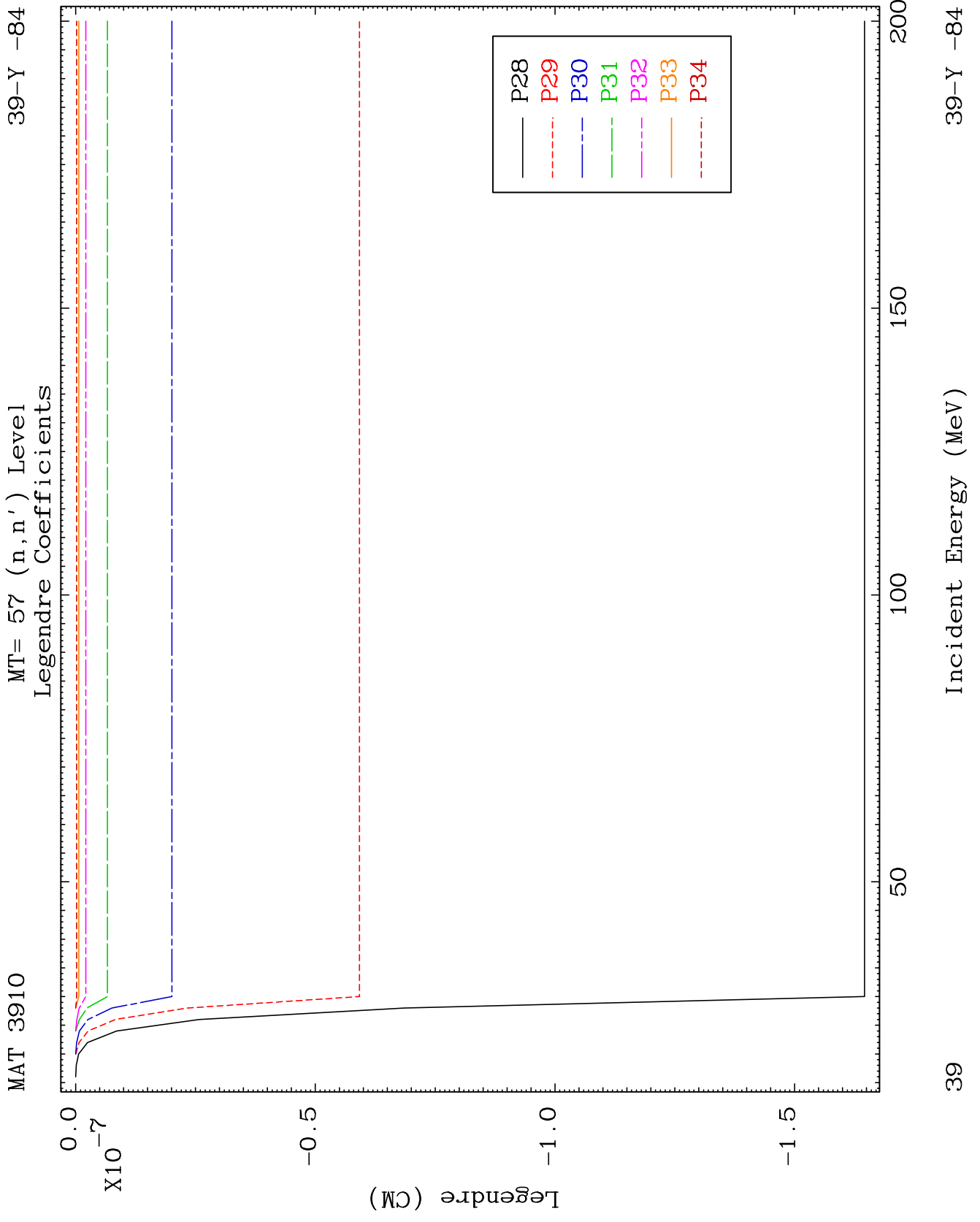
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38

Incident Energy (MeV)

39-Y -84



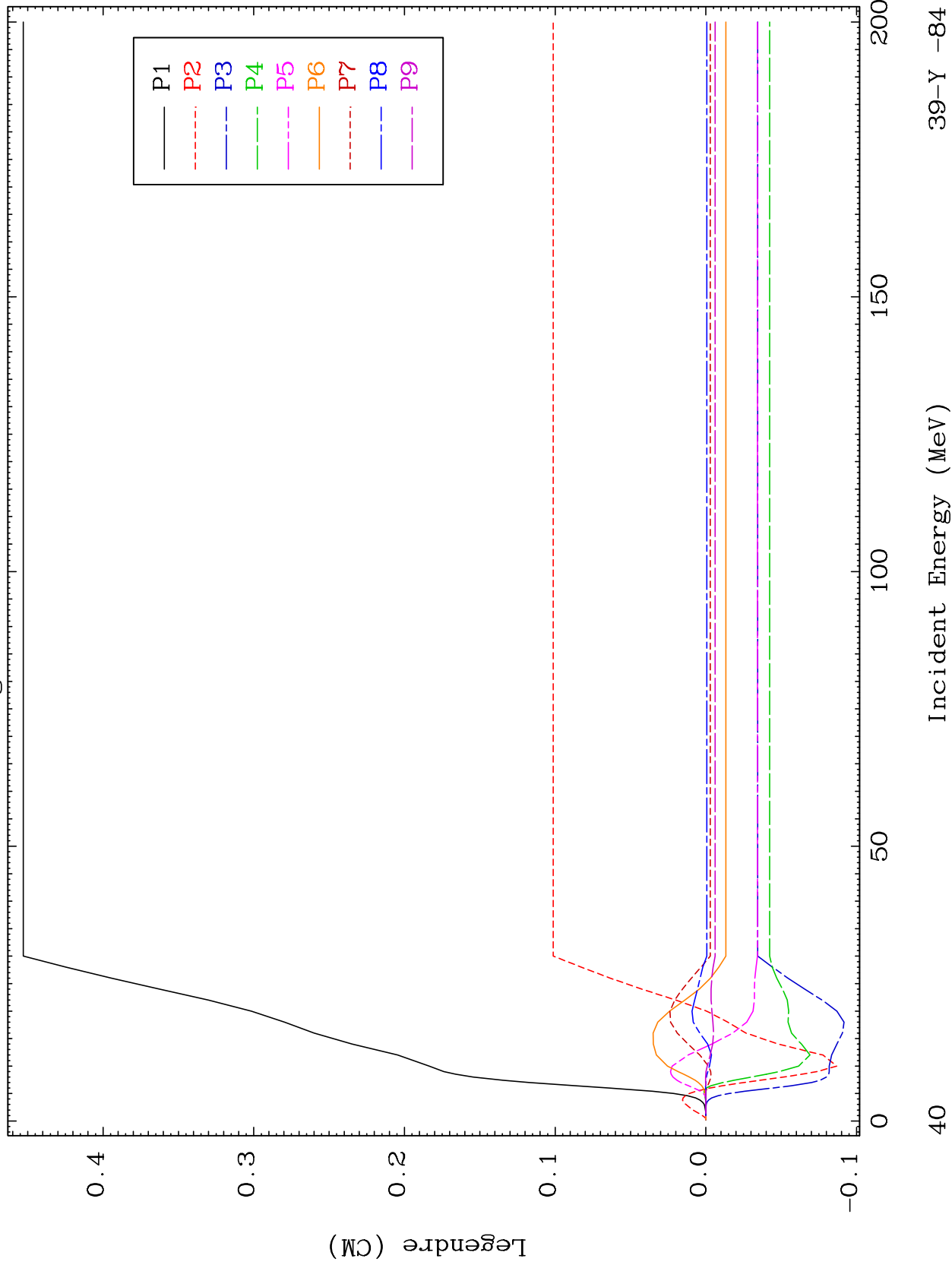




MAT 3910

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

39-Y -84



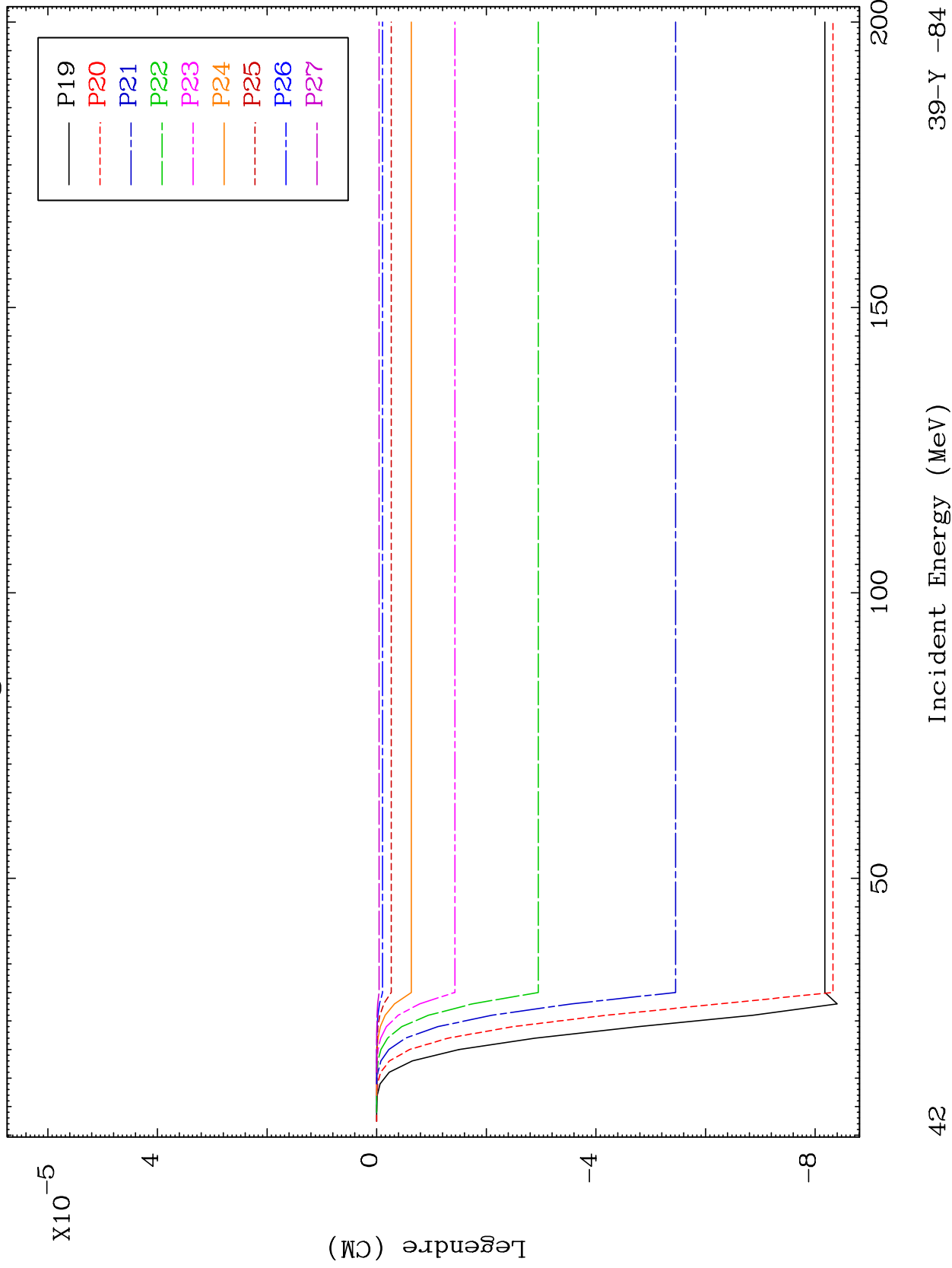
39-Y -84



MAT 3910

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

39-Y -84



42

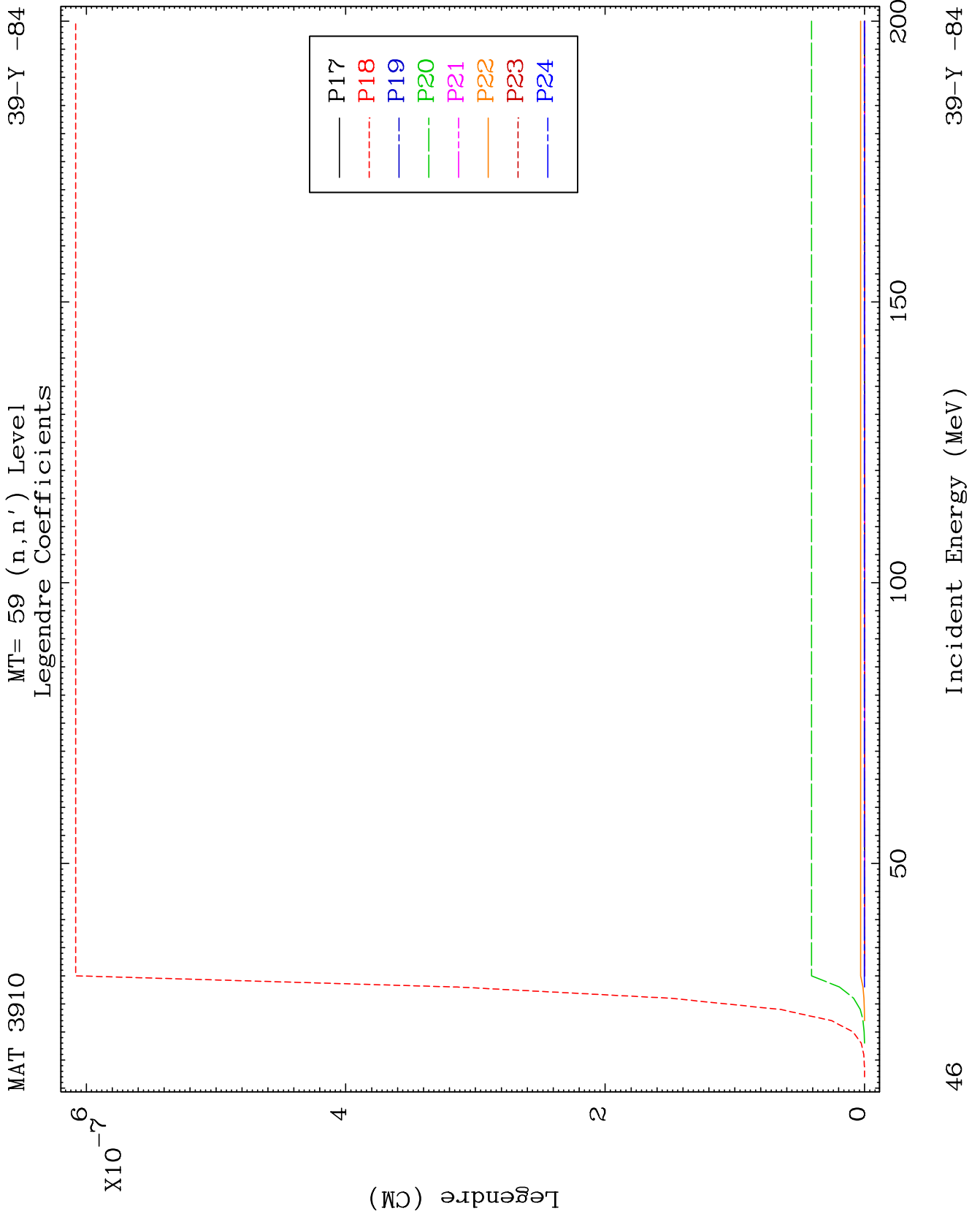
Incident Energy (MeV)

39-Y -84



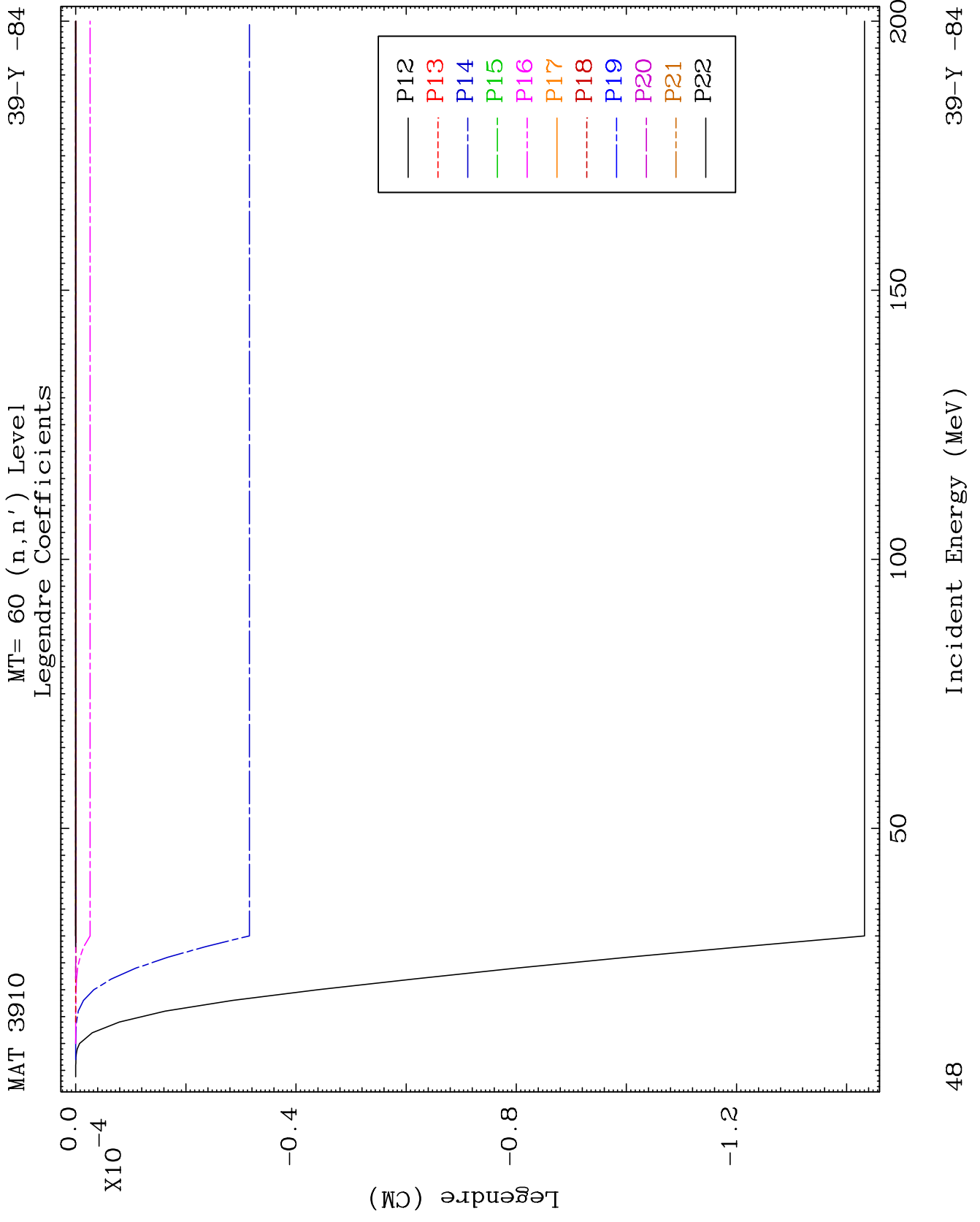








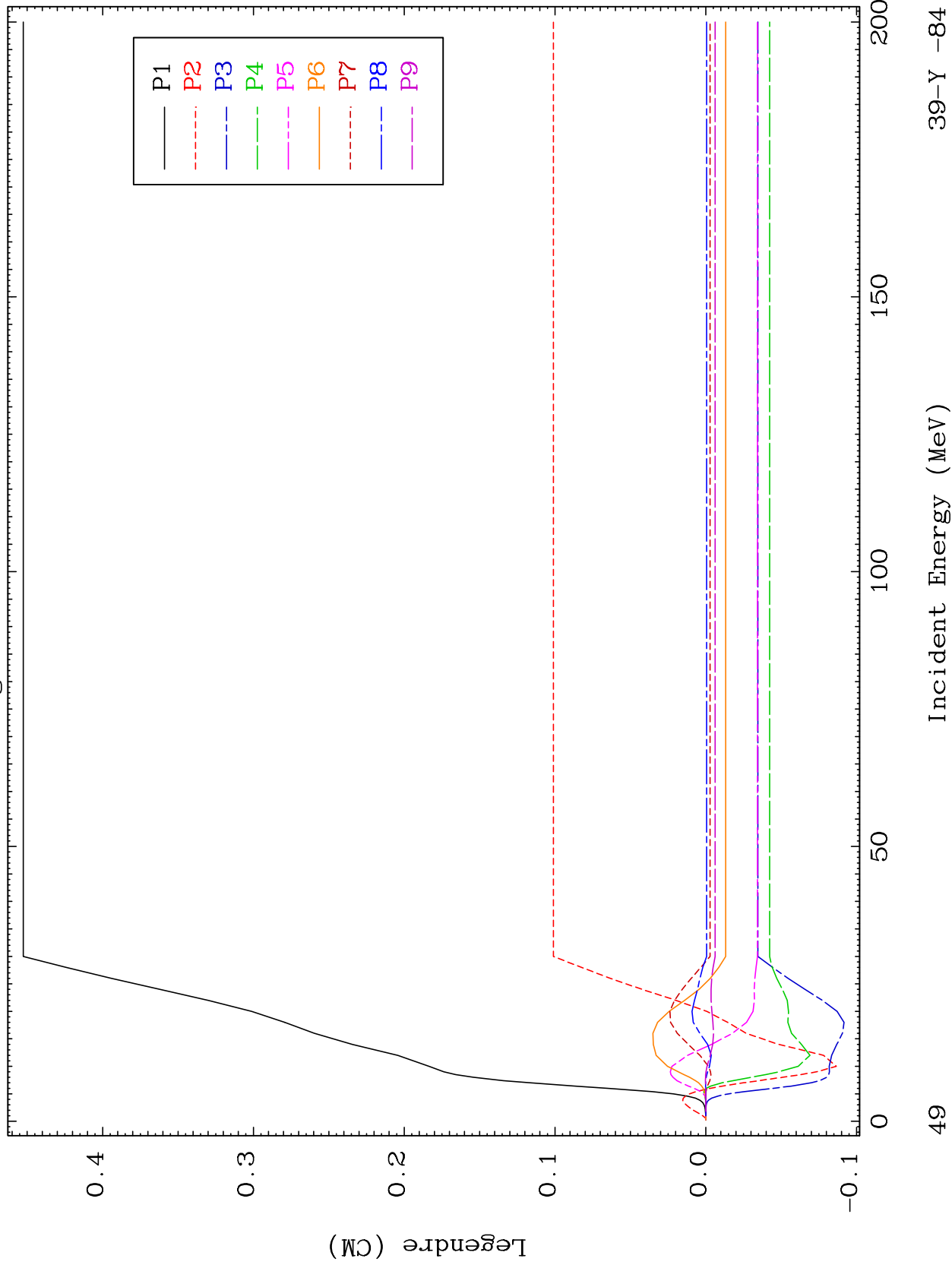




MAT 3910

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

39-Y -84



49

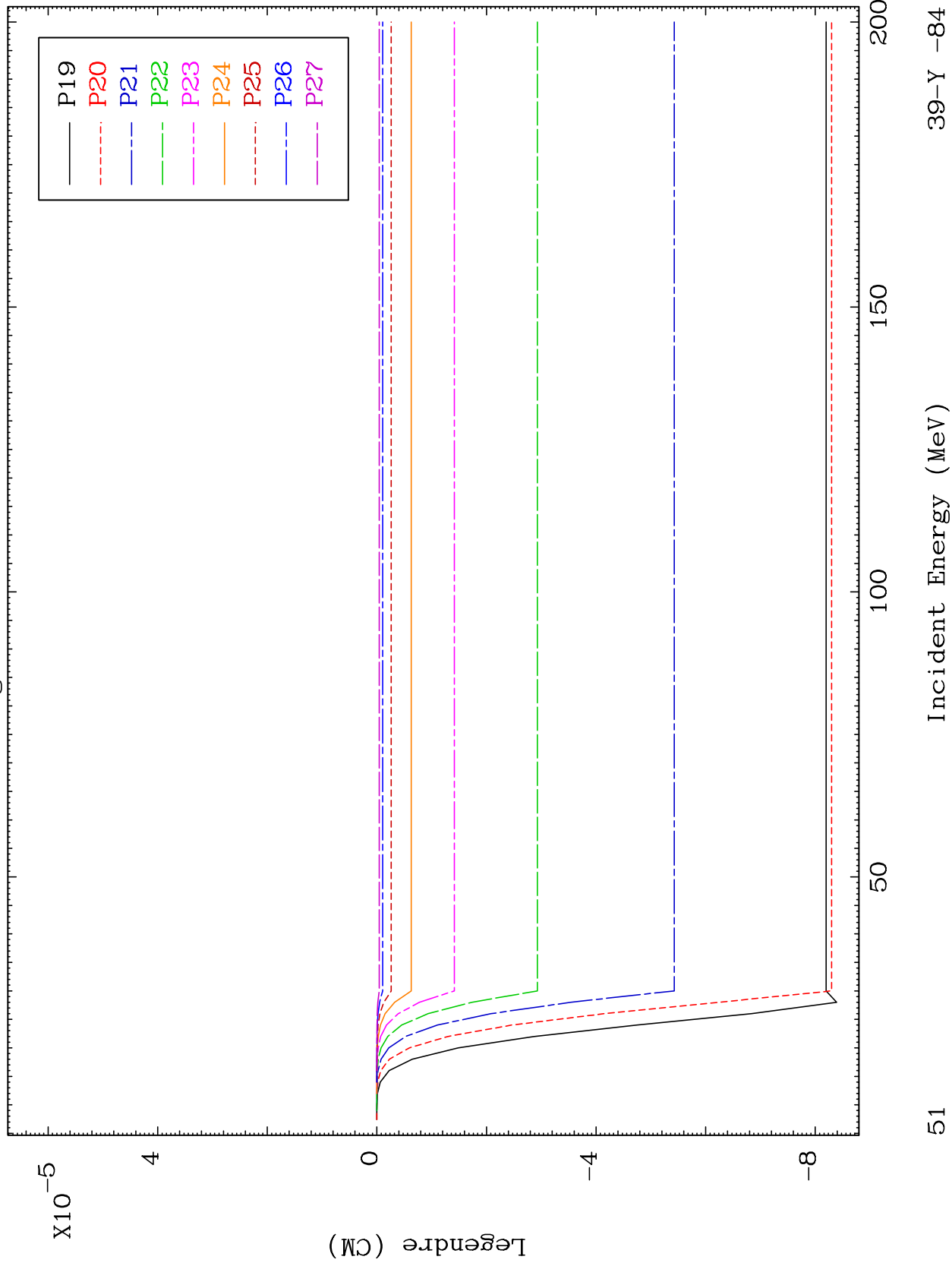
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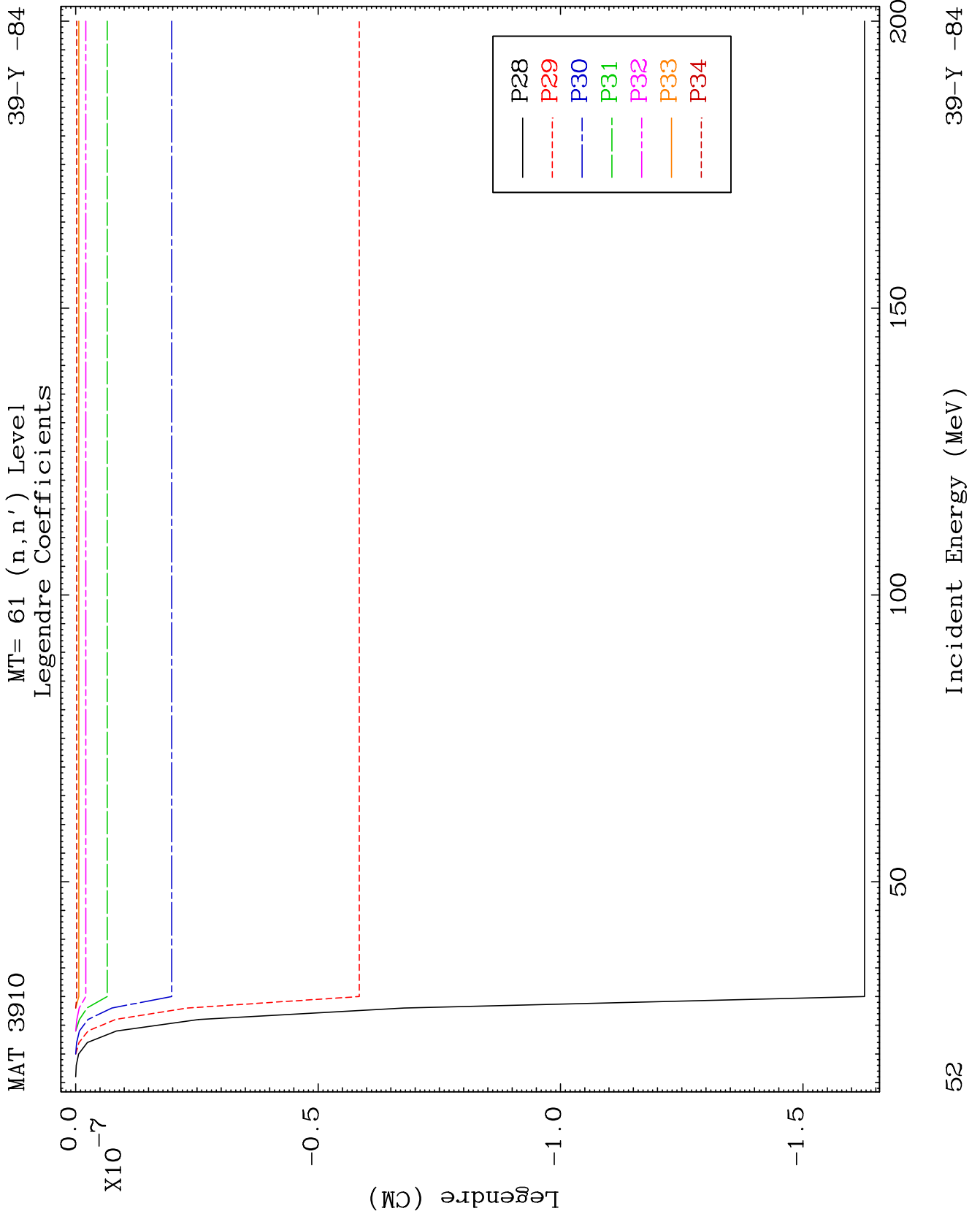


MAT 3910

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

39-Y -84



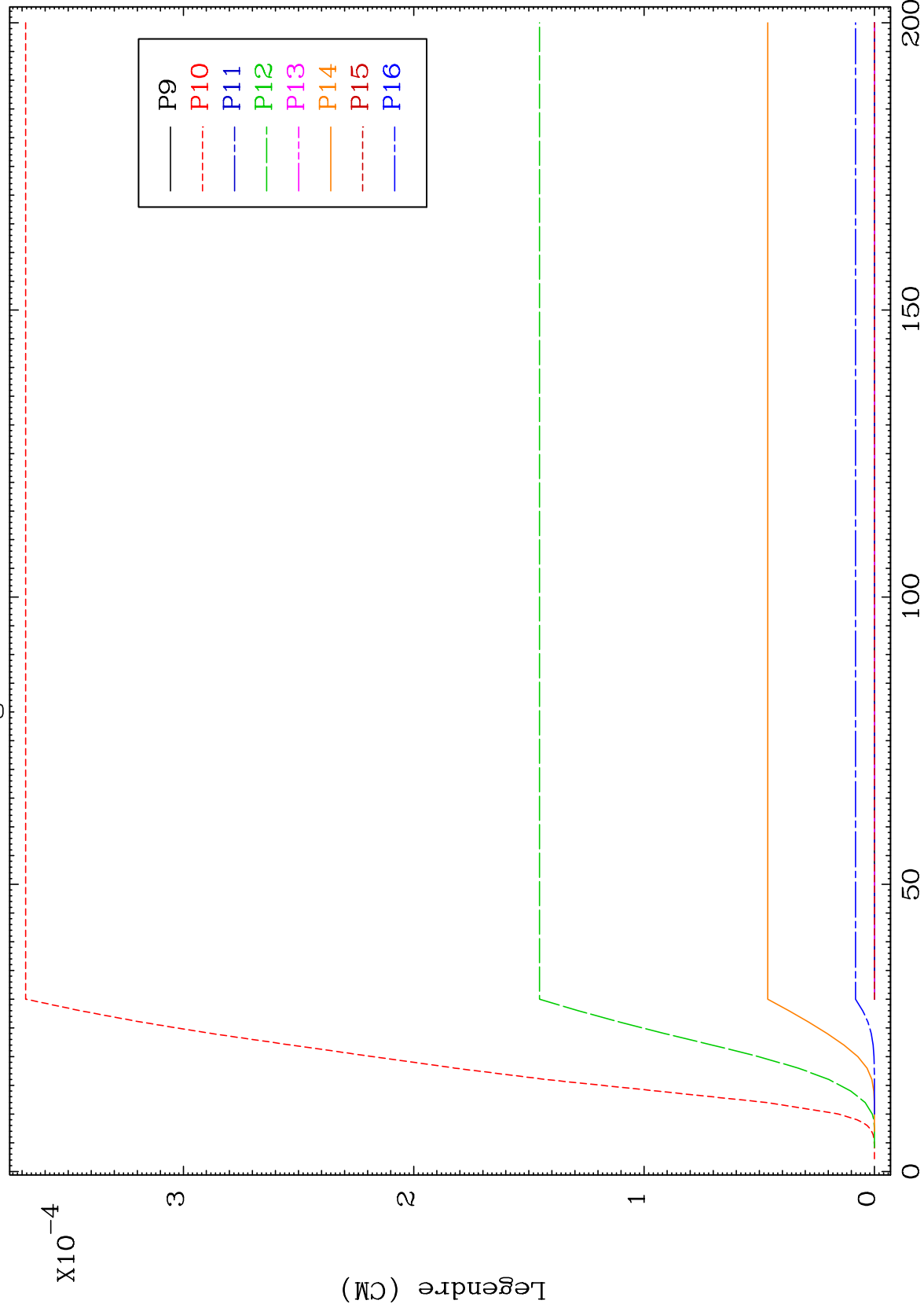




MAT 3910

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

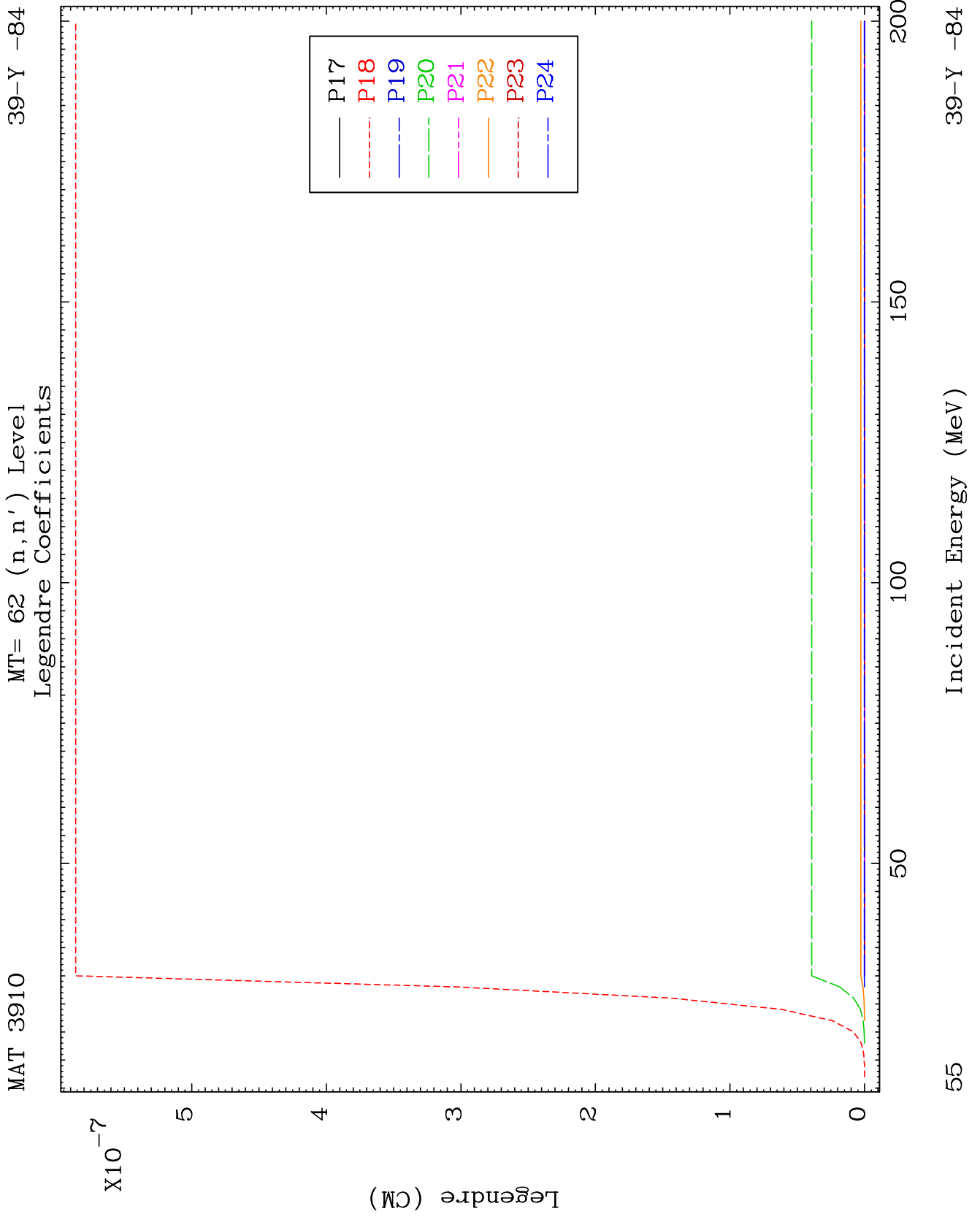
39-Y -84



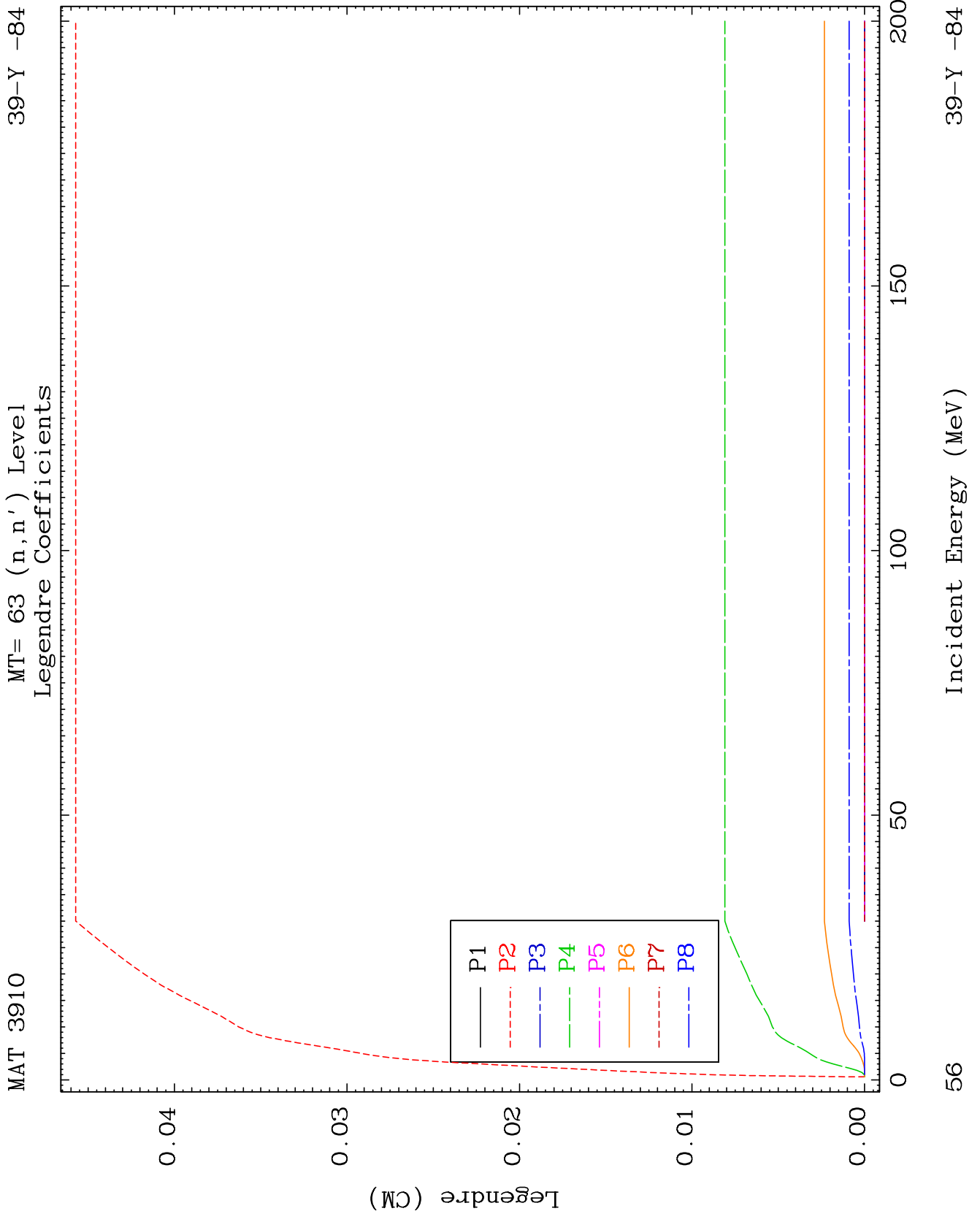
54

Incident Energy (MeV)

39-Y -84



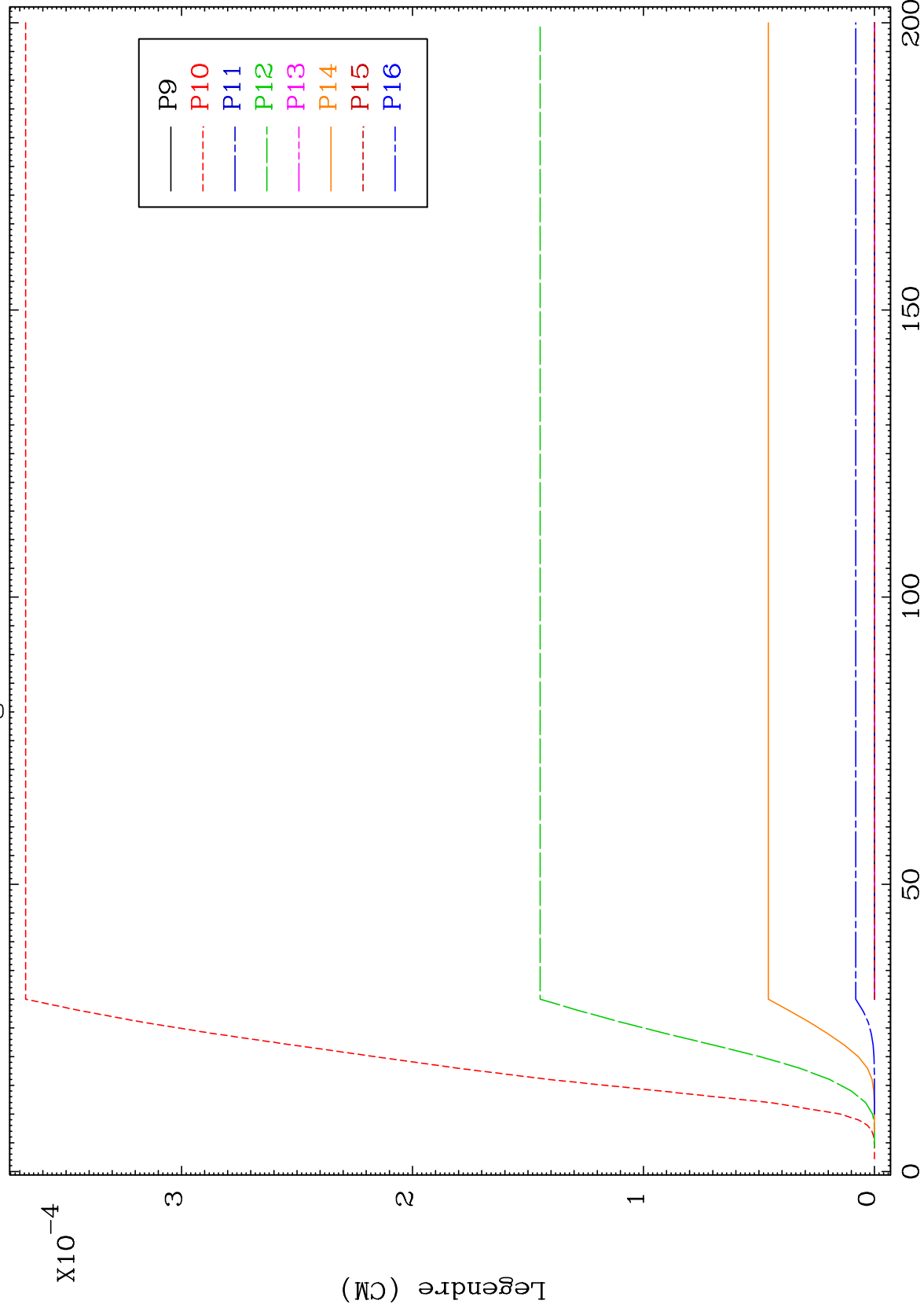




MAT 3910

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

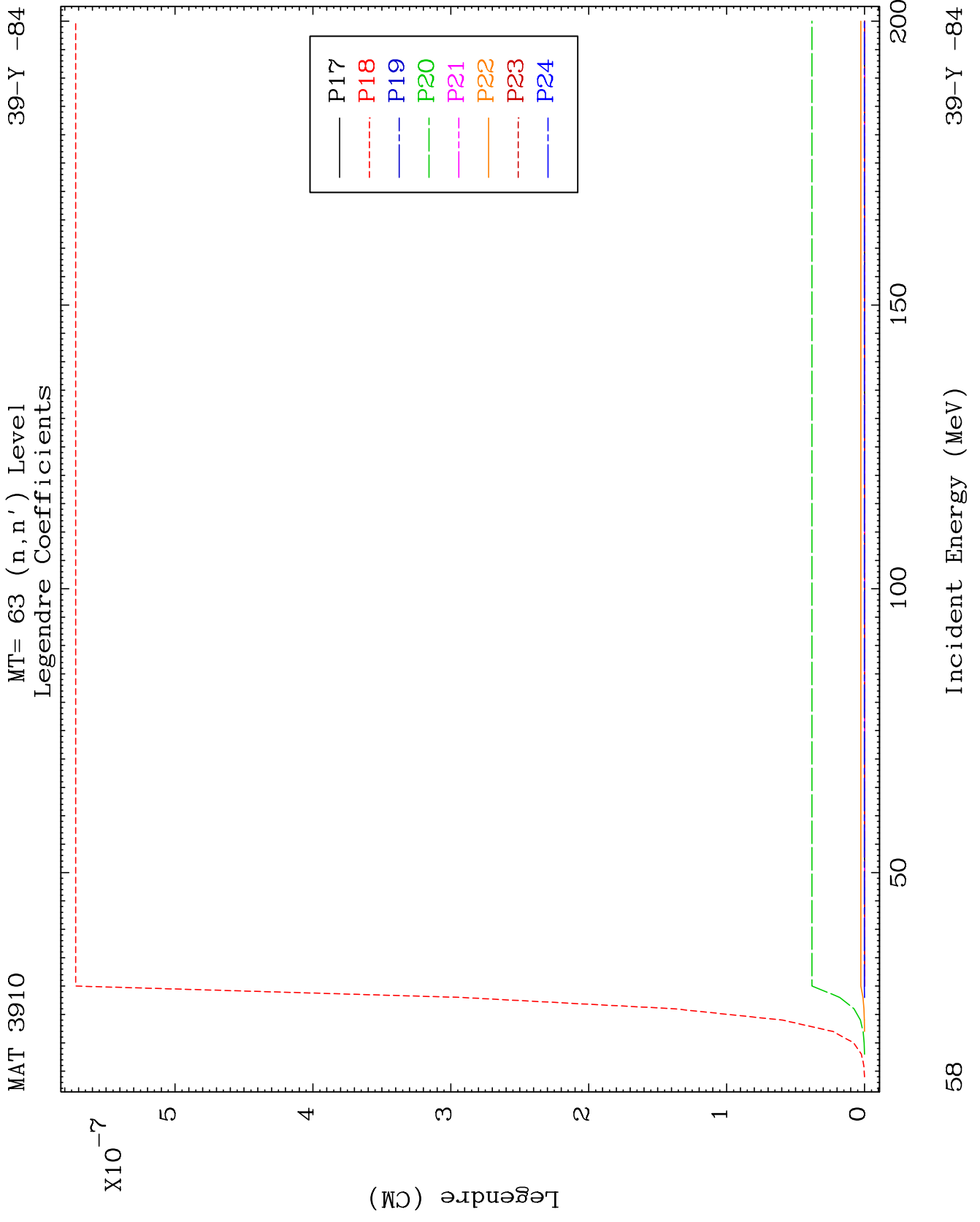
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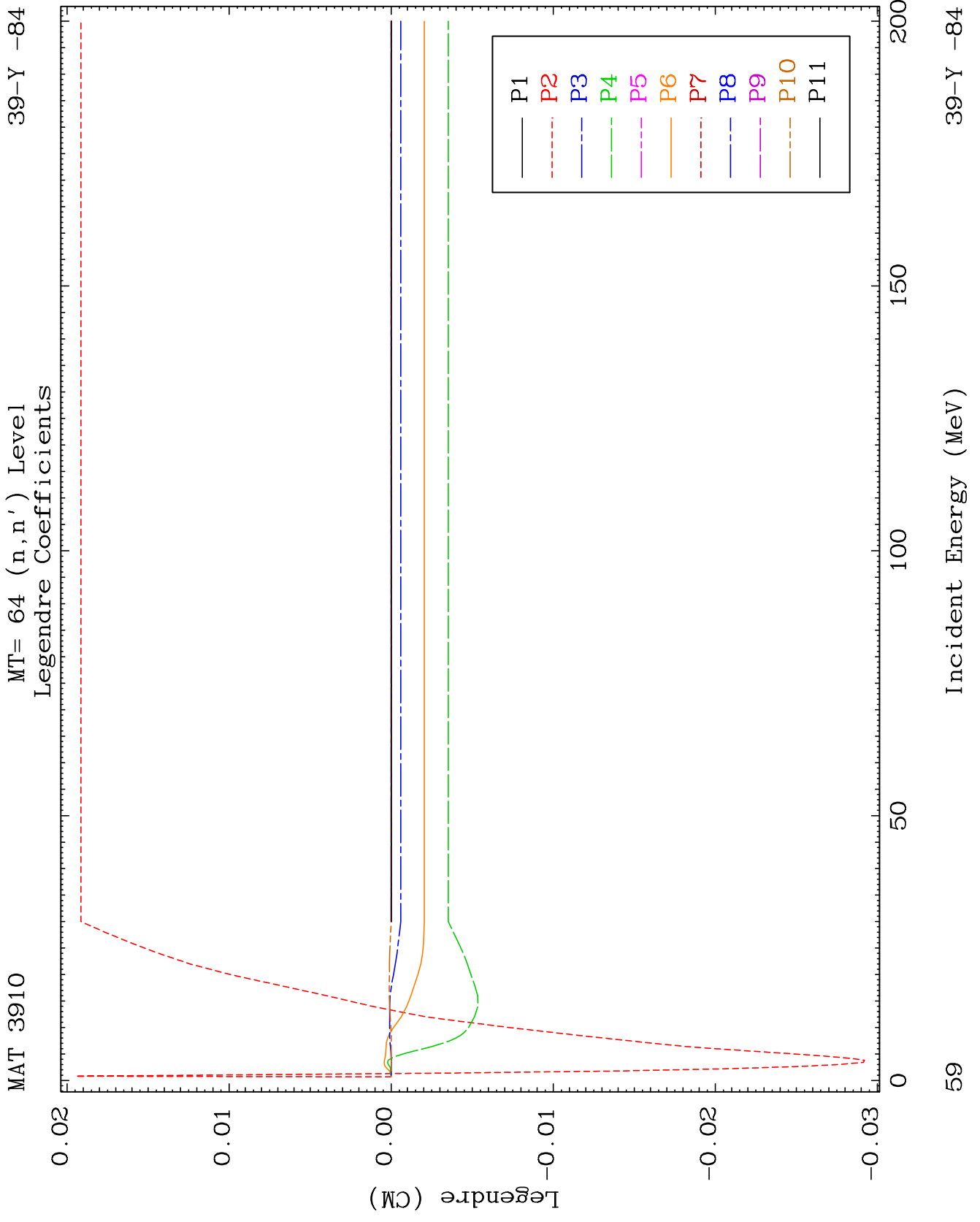


57

Incident Energy (MeV)

39-Y -84





39-Y -84

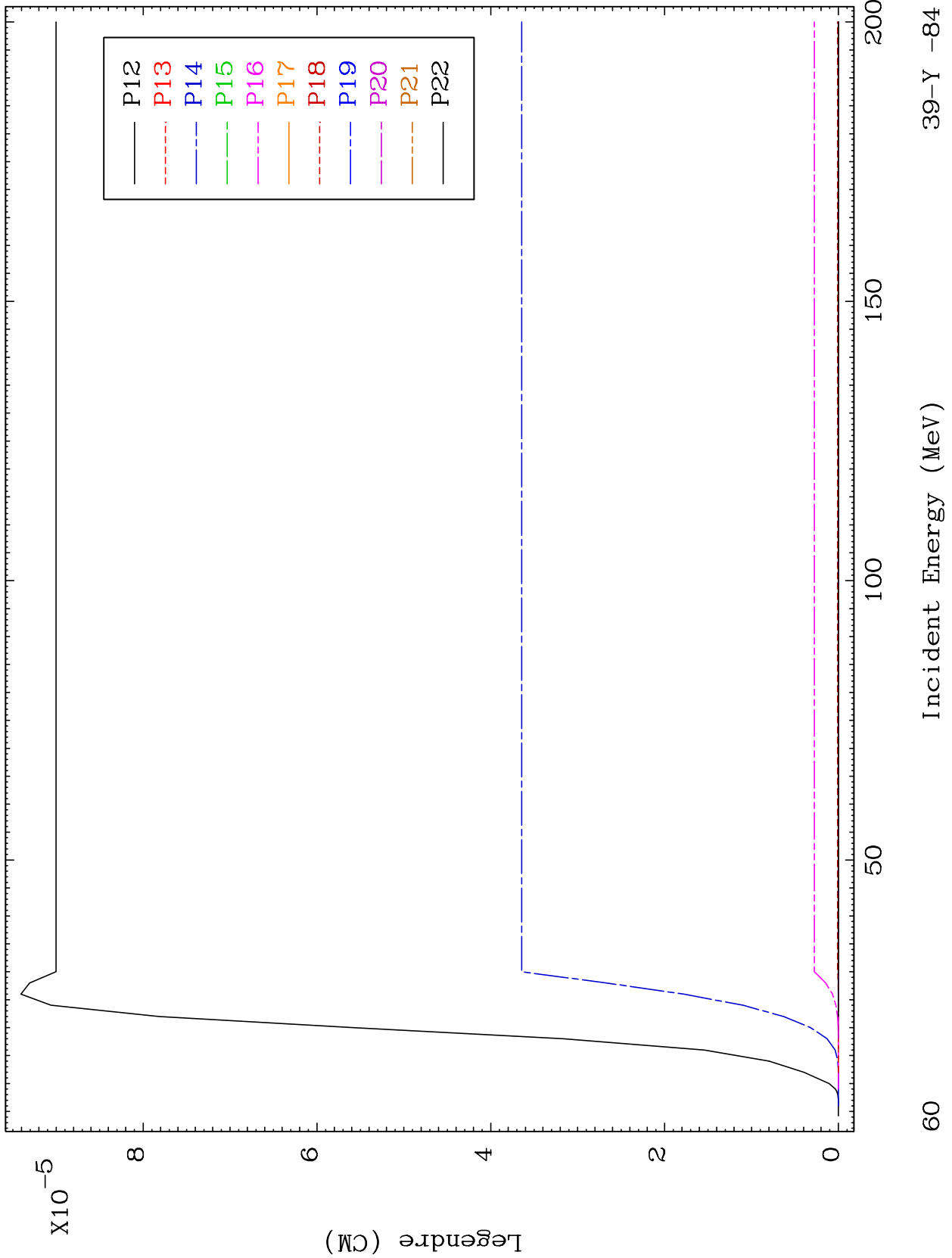
Incident Energy (MeV)

59

MAT 3910

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

39-Y -84



60

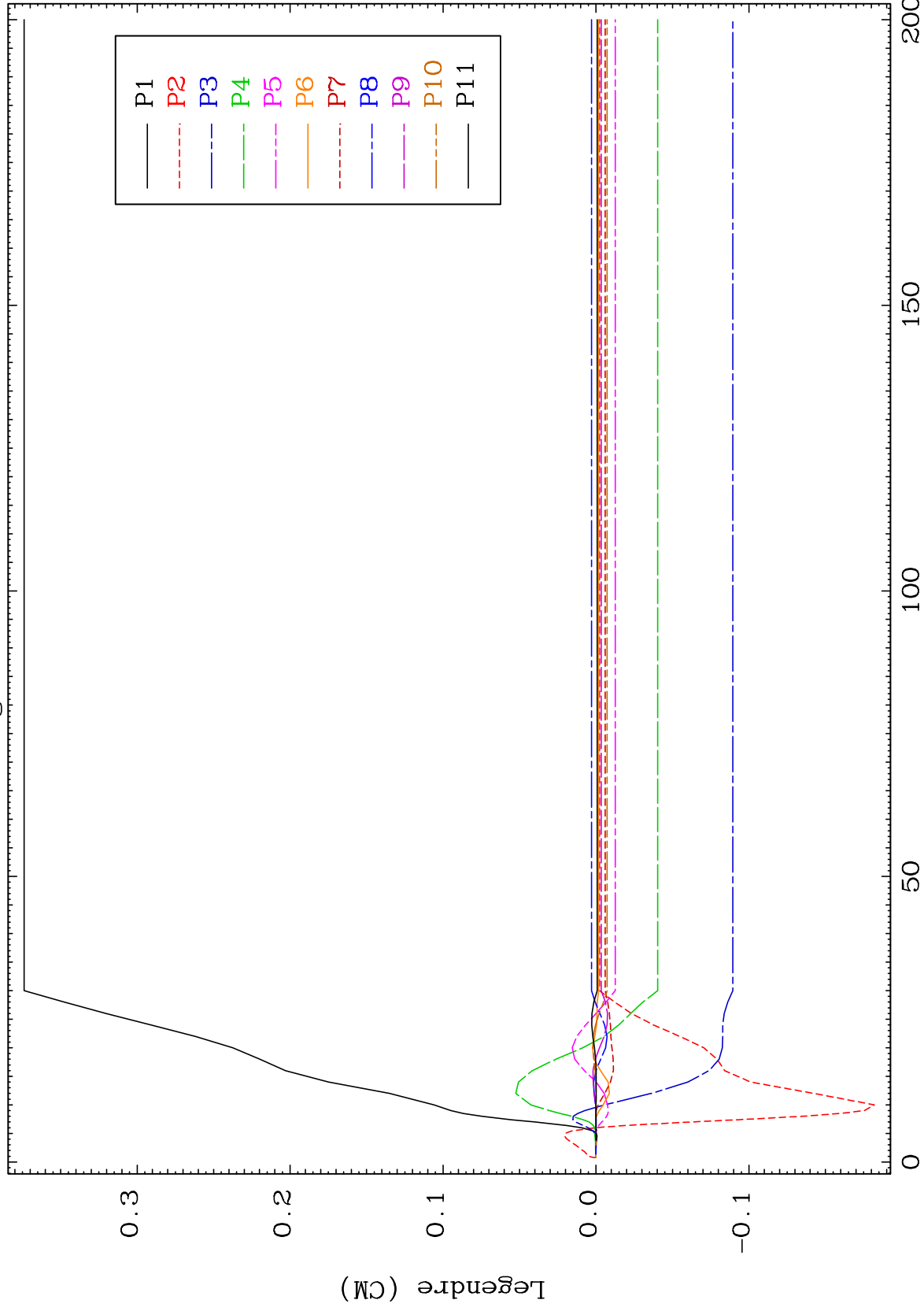
Incident Energy (MeV)

39-Y -84

MAT 3910

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

39-Y -84



61

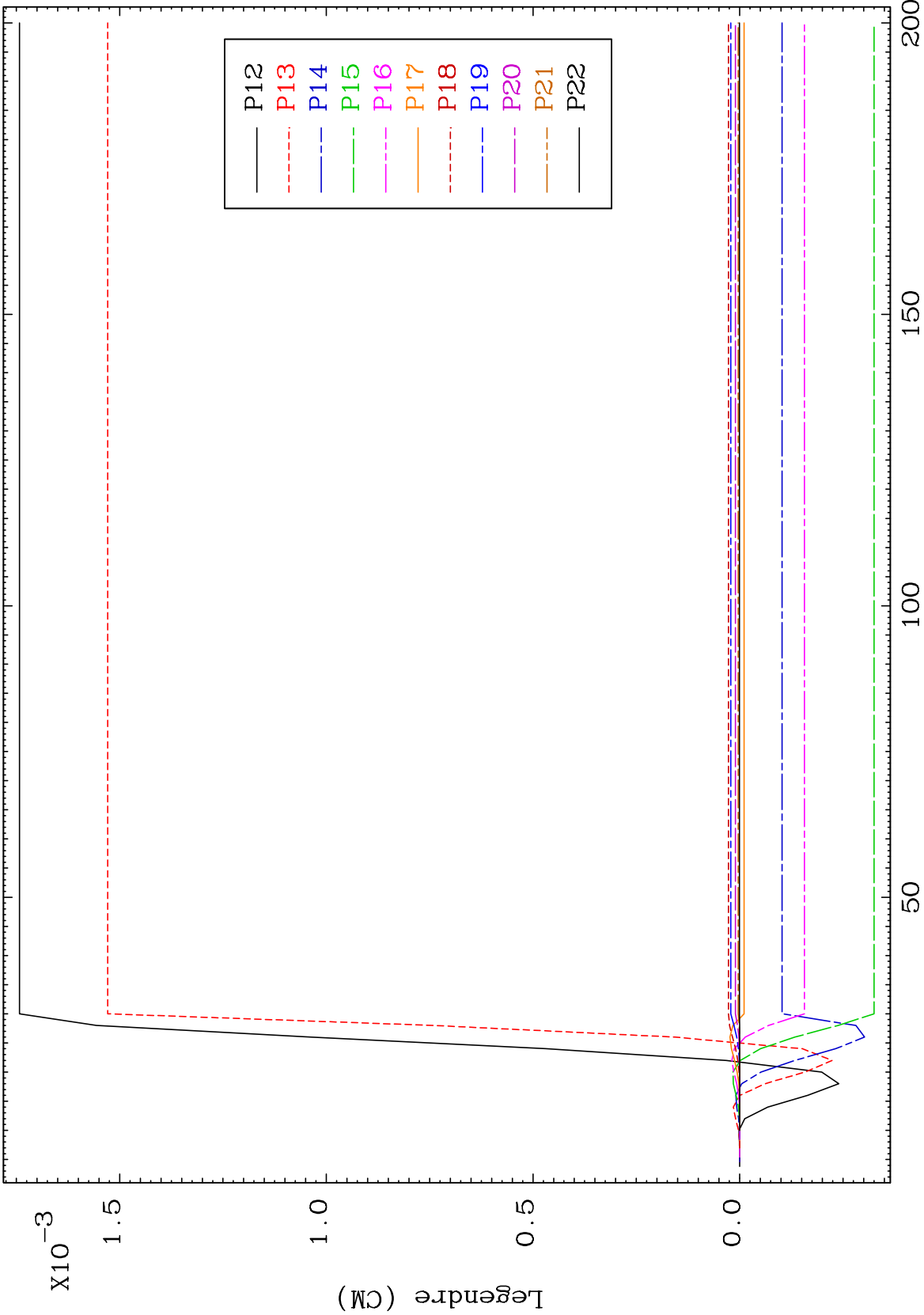
Incident Energy (MeV)

39-Y -84

MAT 3910

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

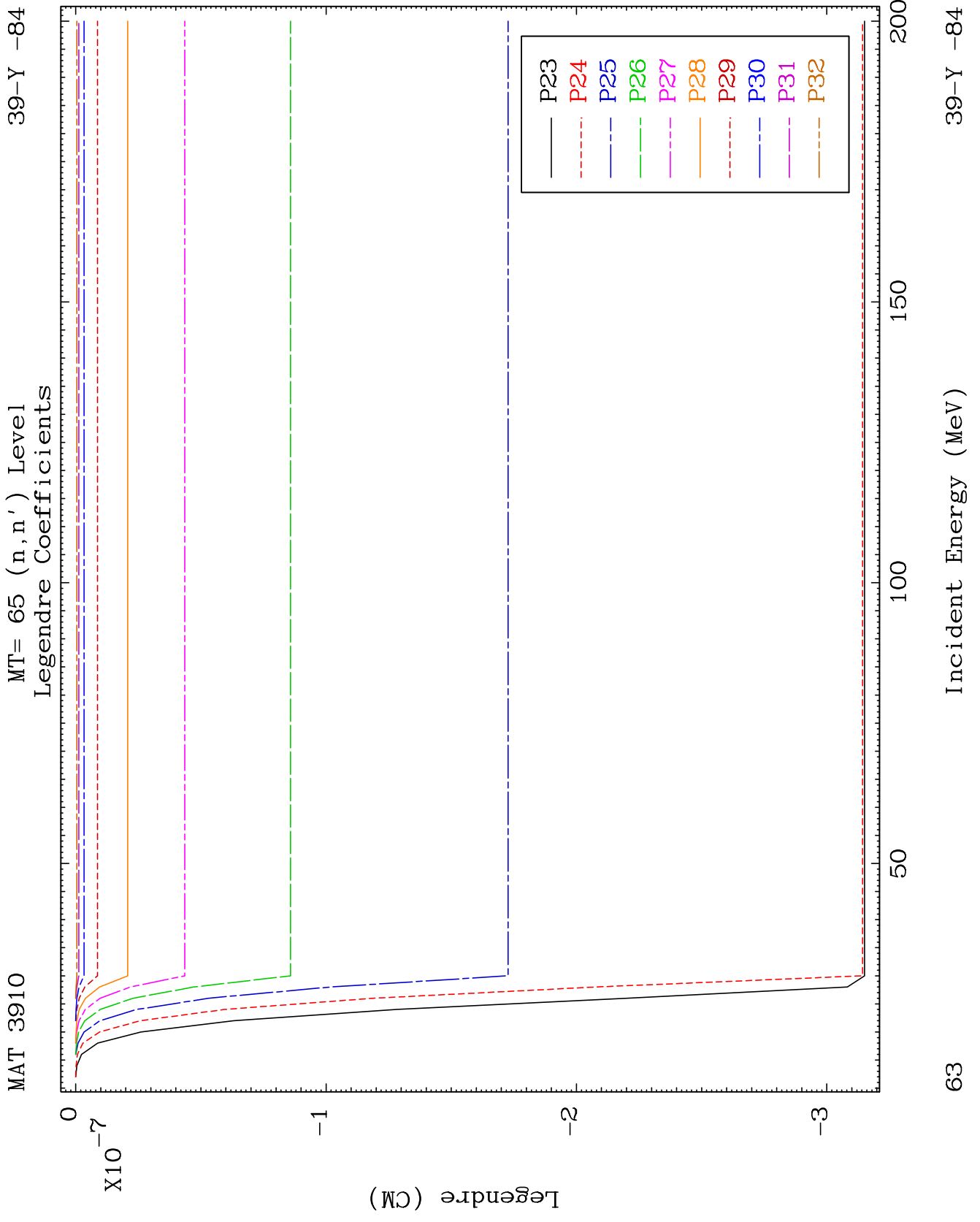
39-Y -84



62

Incident Energy (MeV)

39-Y -84

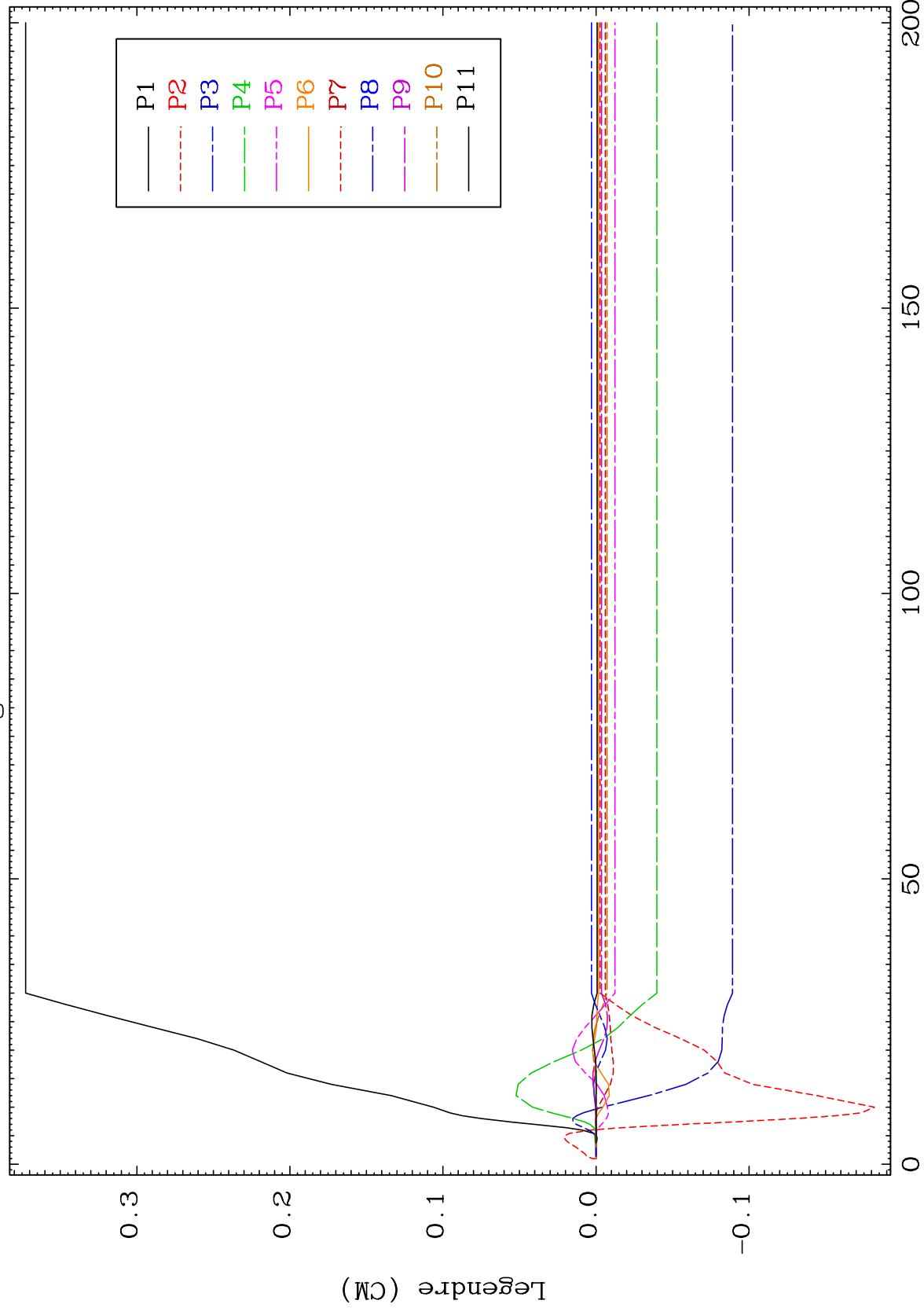




MAT 3910

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

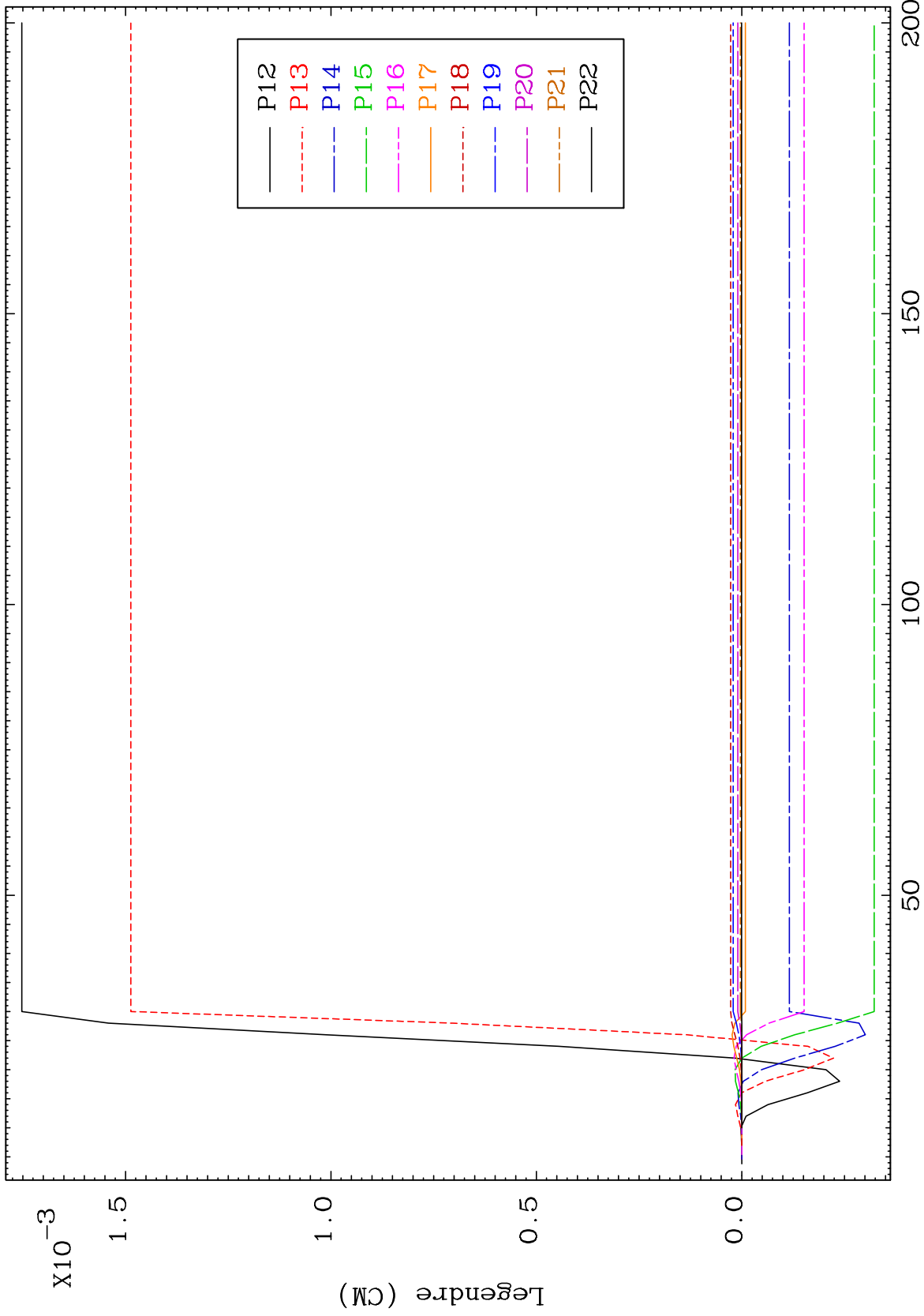
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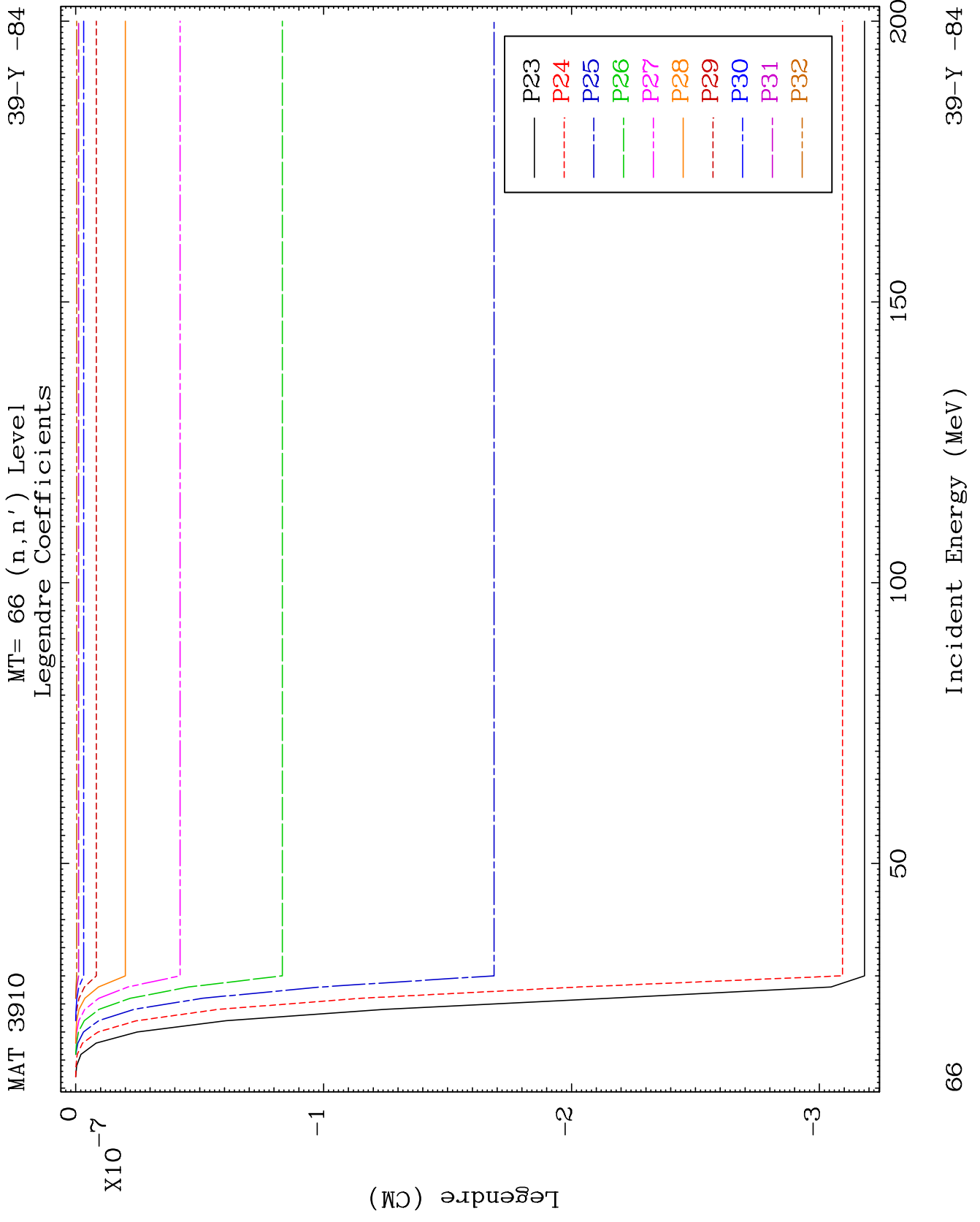


64

Incident Energy (MeV)

39-Y -84

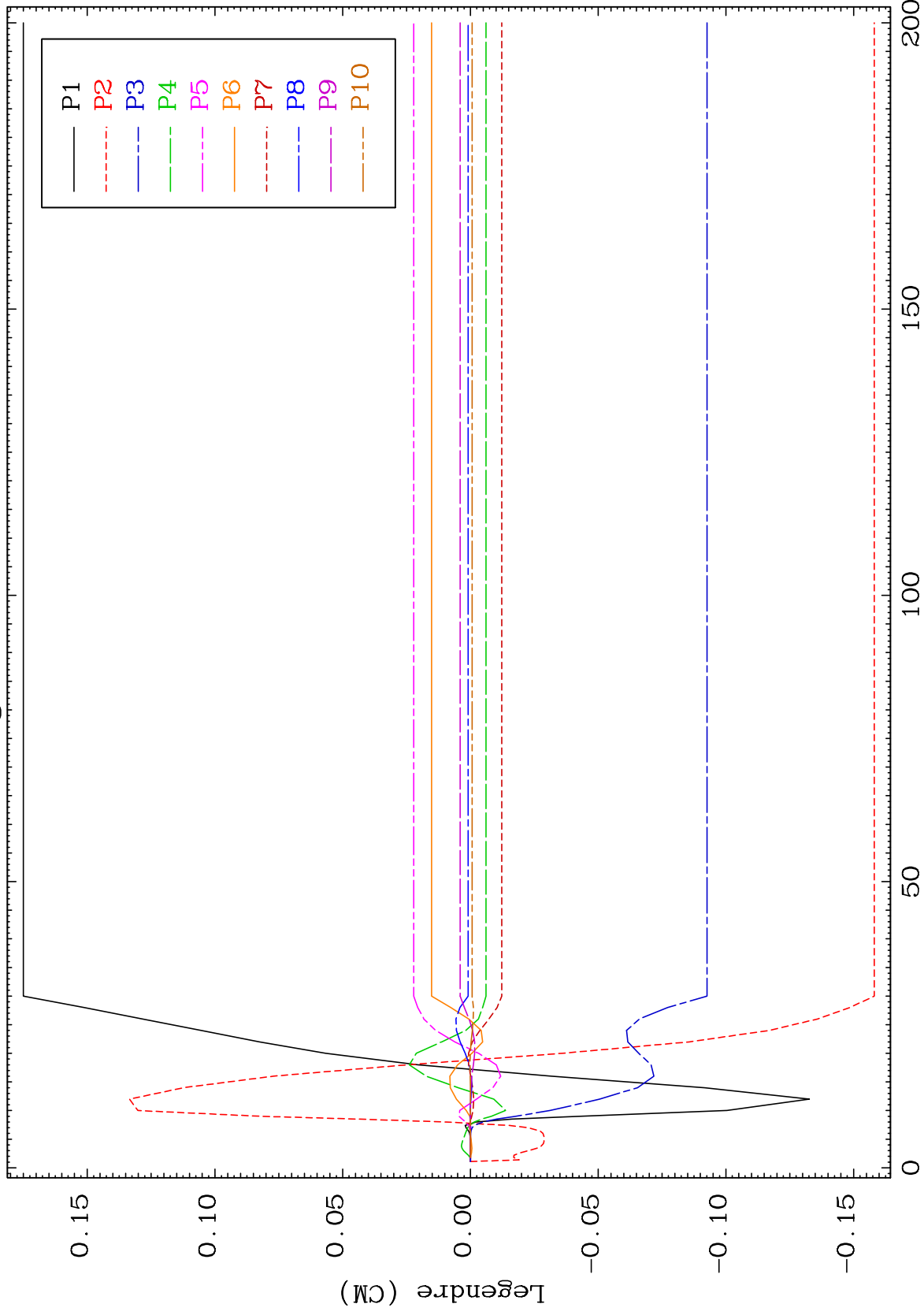




MAT 3910

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

39-Y -84



67

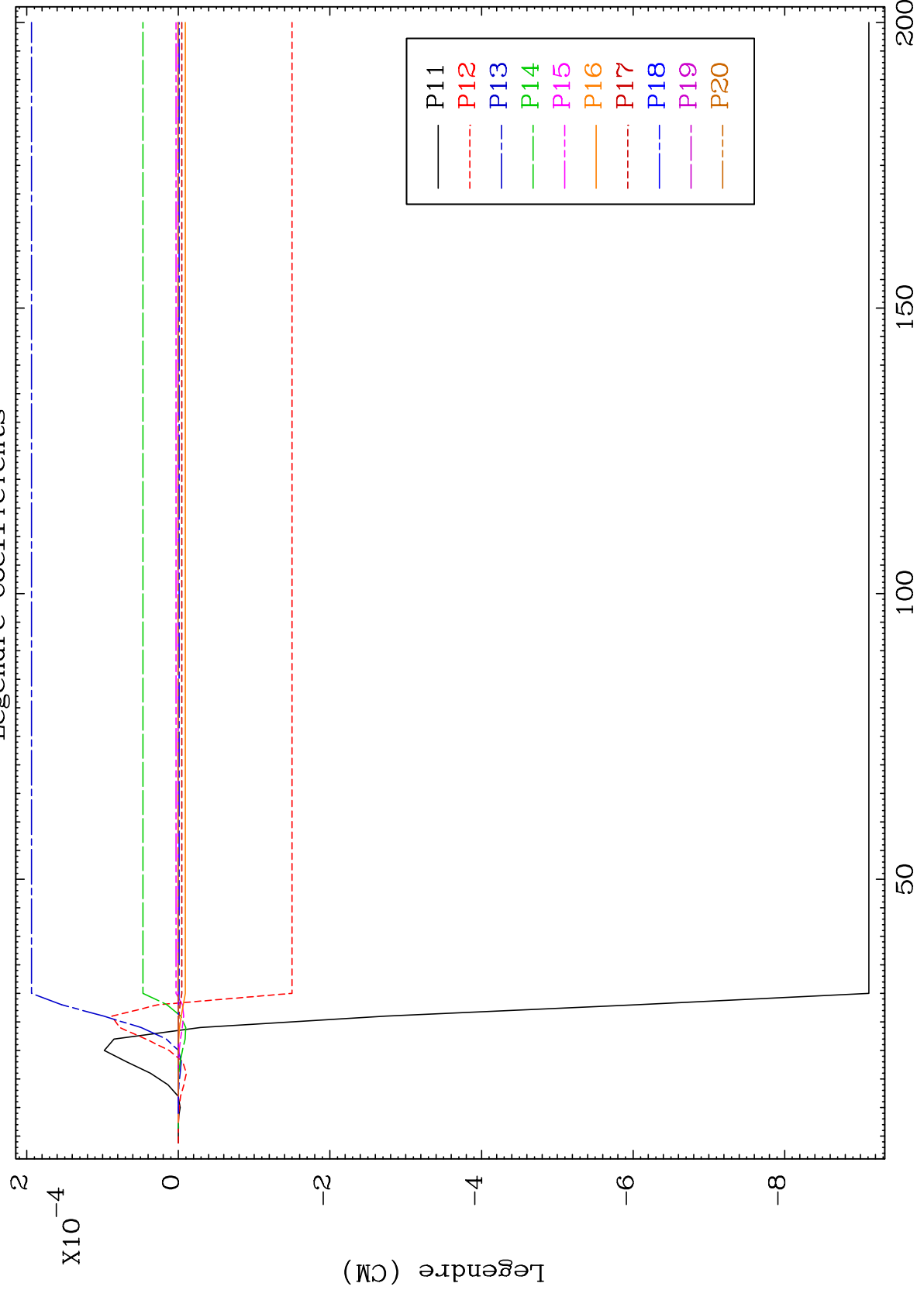
Incident Energy (MeV)

39-Y -84

MAT 3910

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

39-Y -84



68

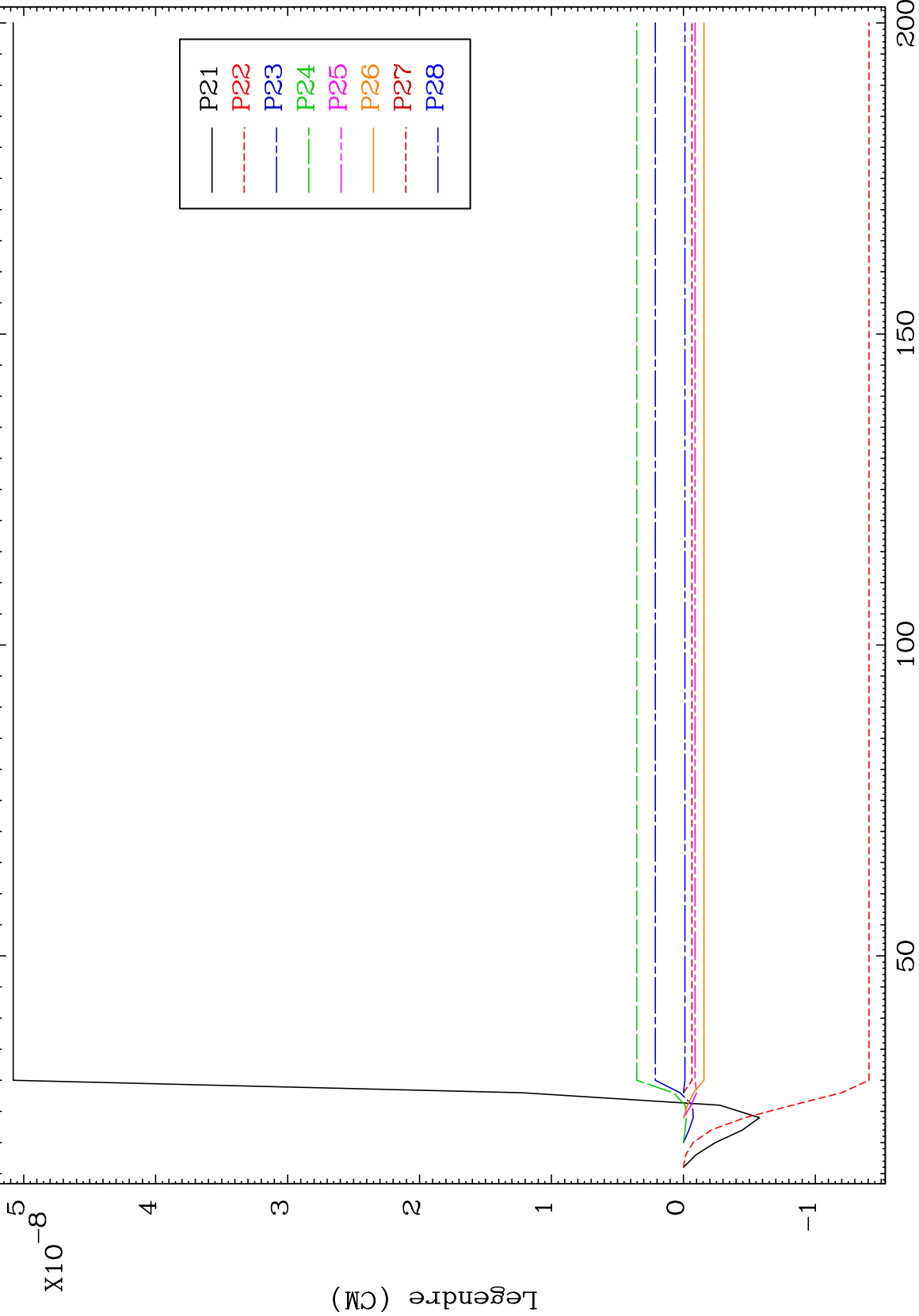
Incident Energy (MeV)

39-Y -84

MAT 3910

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

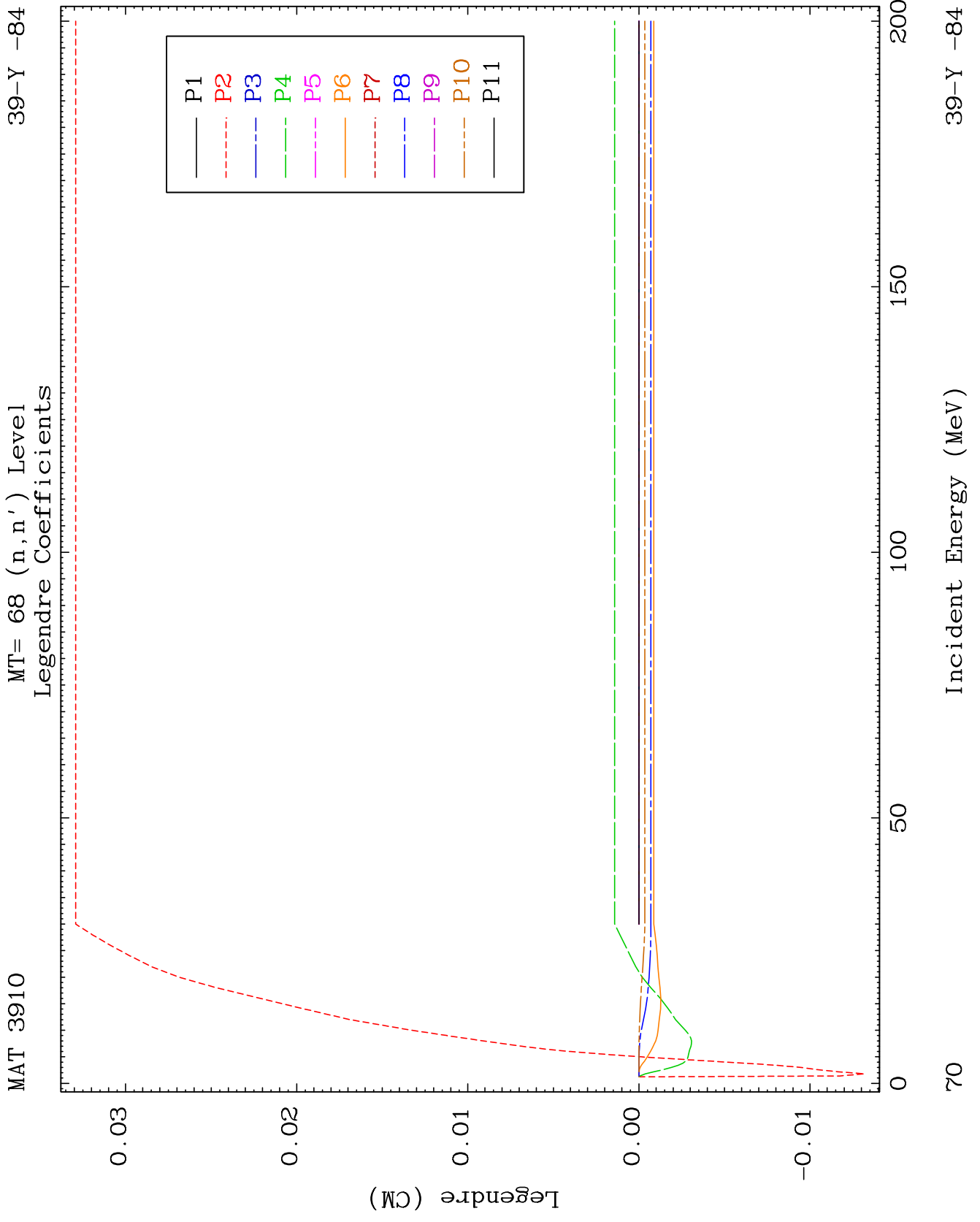
39-Y -84



69

Incident Energy (MeV)

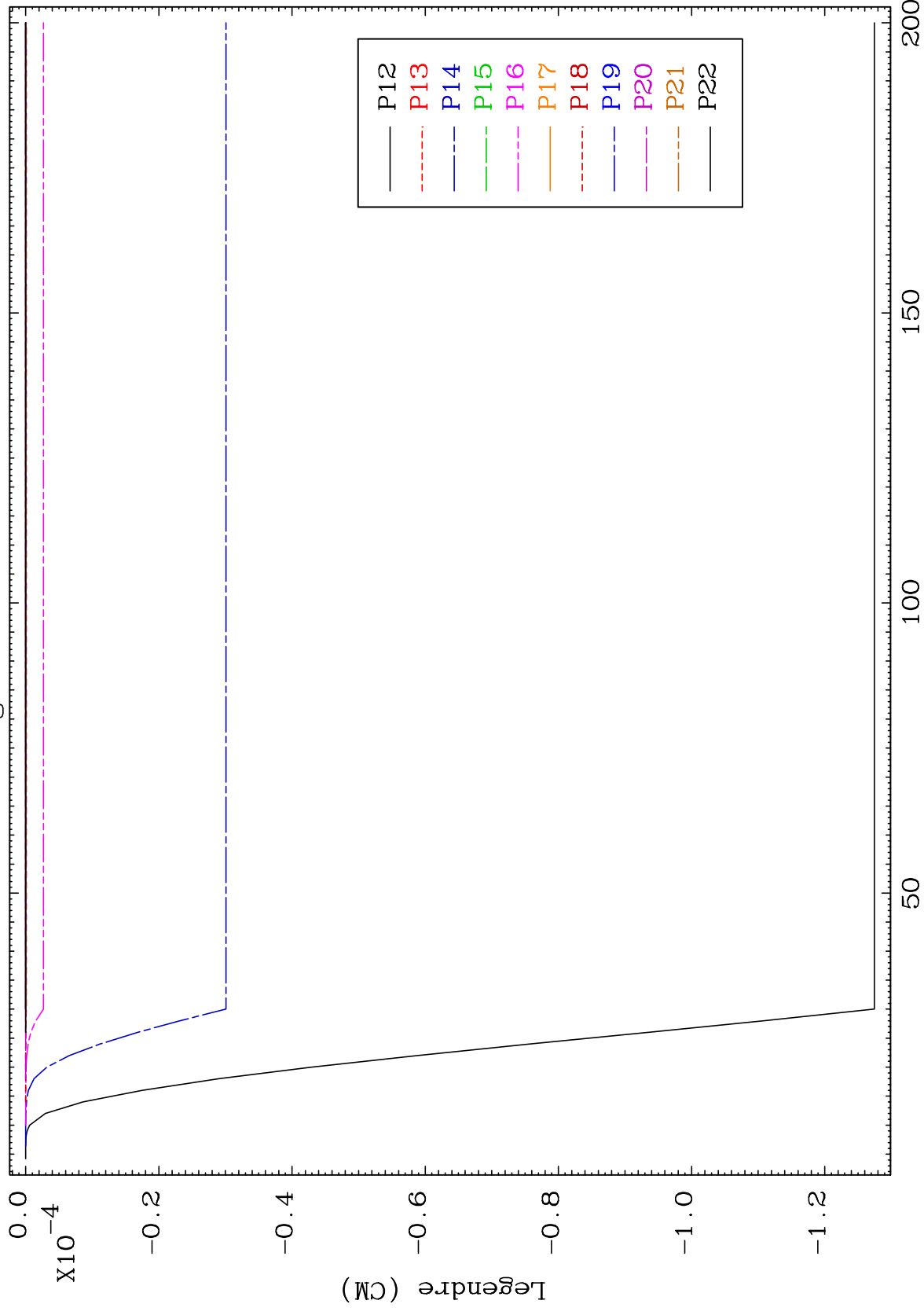
39-Y -84



MAT 3910

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

39-Y -84



71

Incident Energy (MeV)

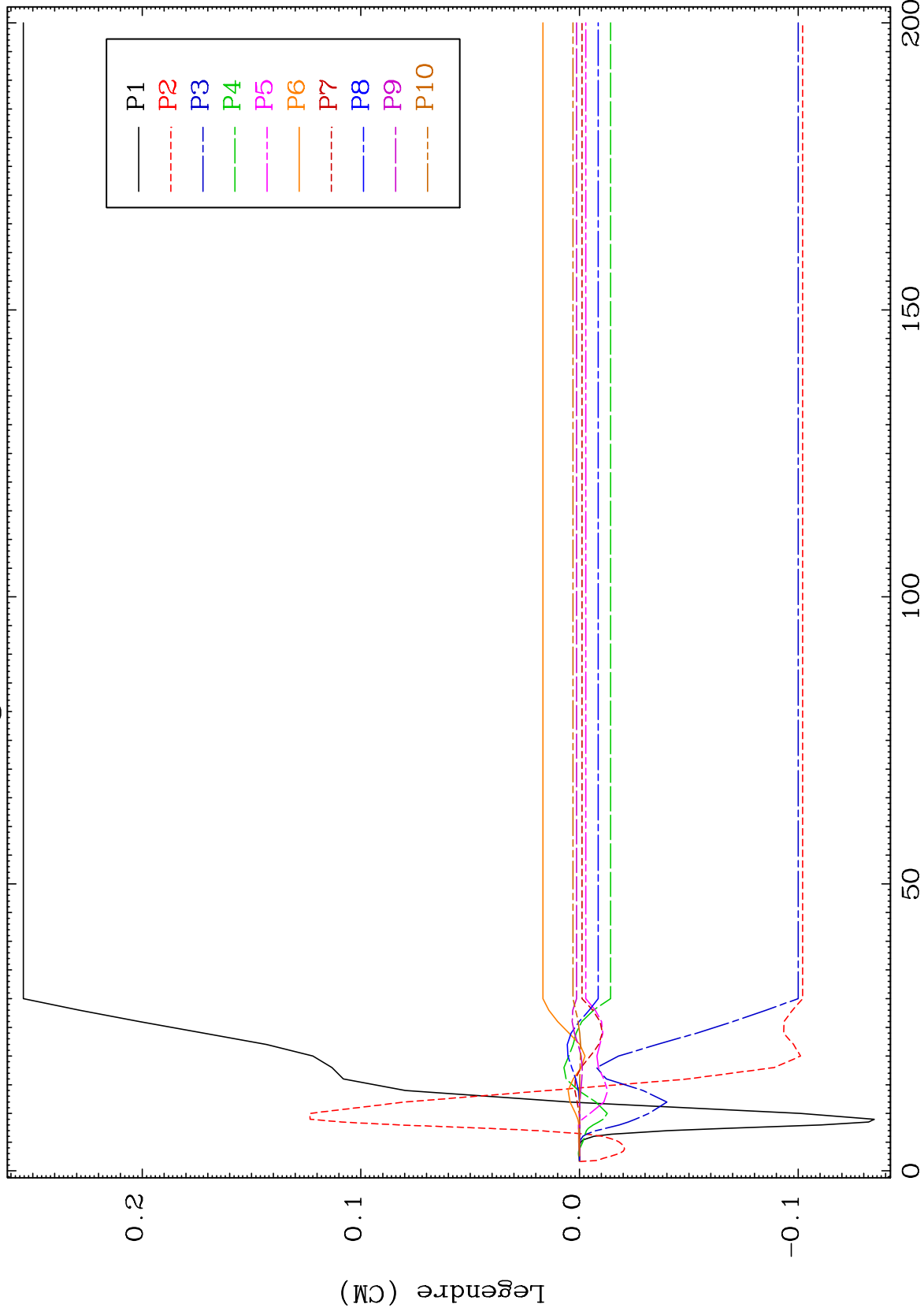
39-Y -84



MAT 3910

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

39-Y -84



72

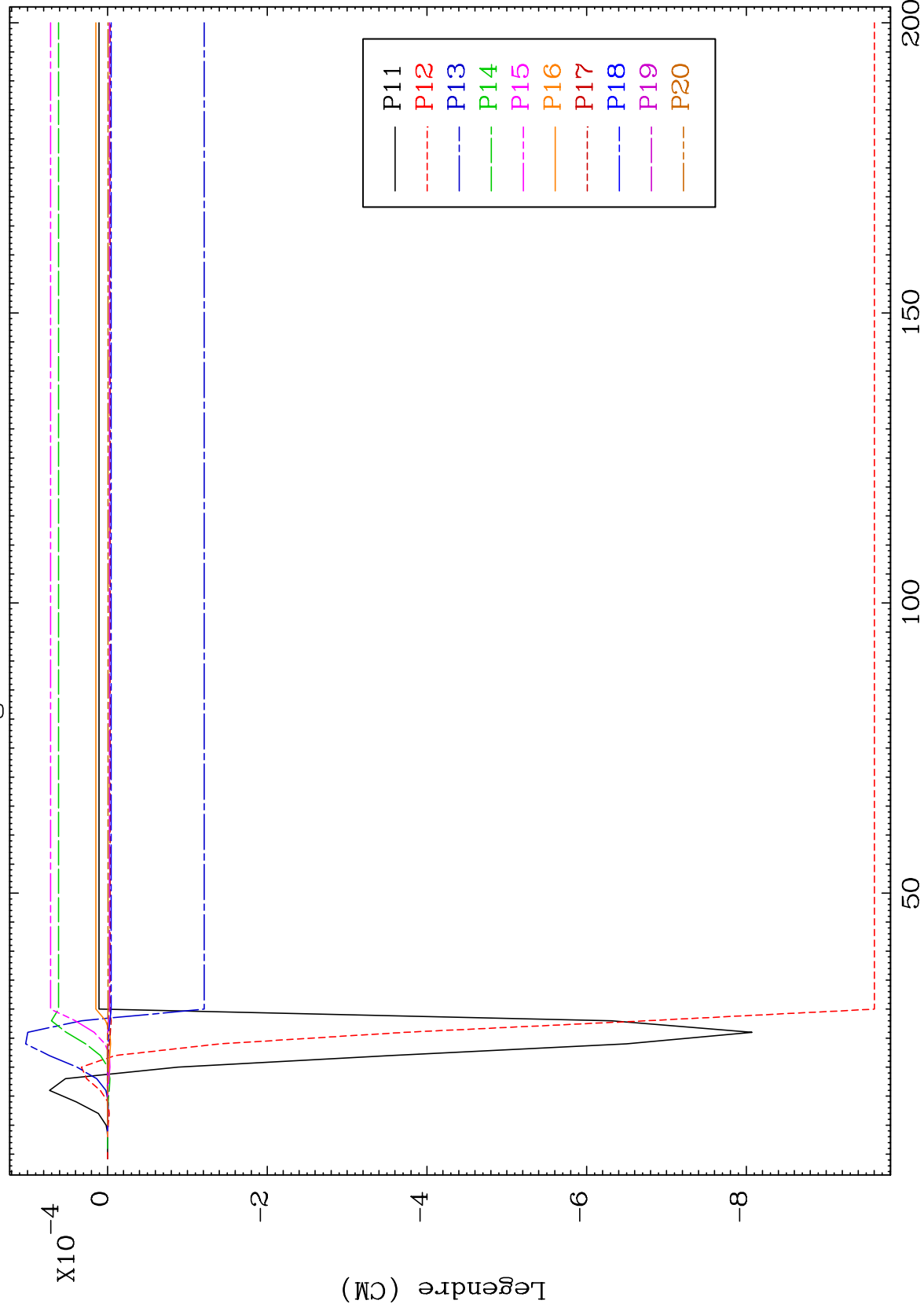
Incident Energy (MeV)

39-Y -84

MAT 3910

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

39-Y -84



73

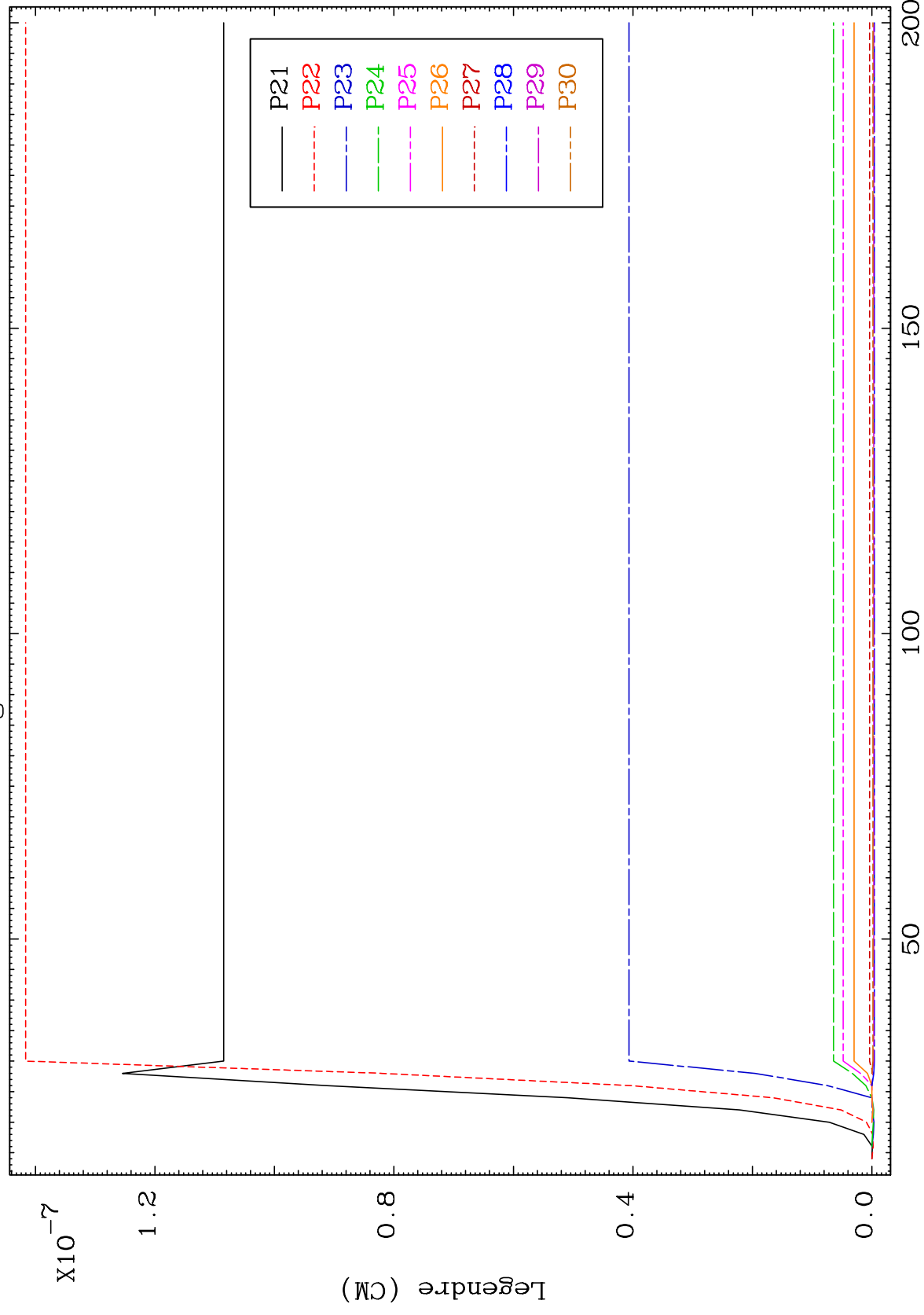
Incident Energy (MeV)

39-Y -84

MAT 3910

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

39-Y -84



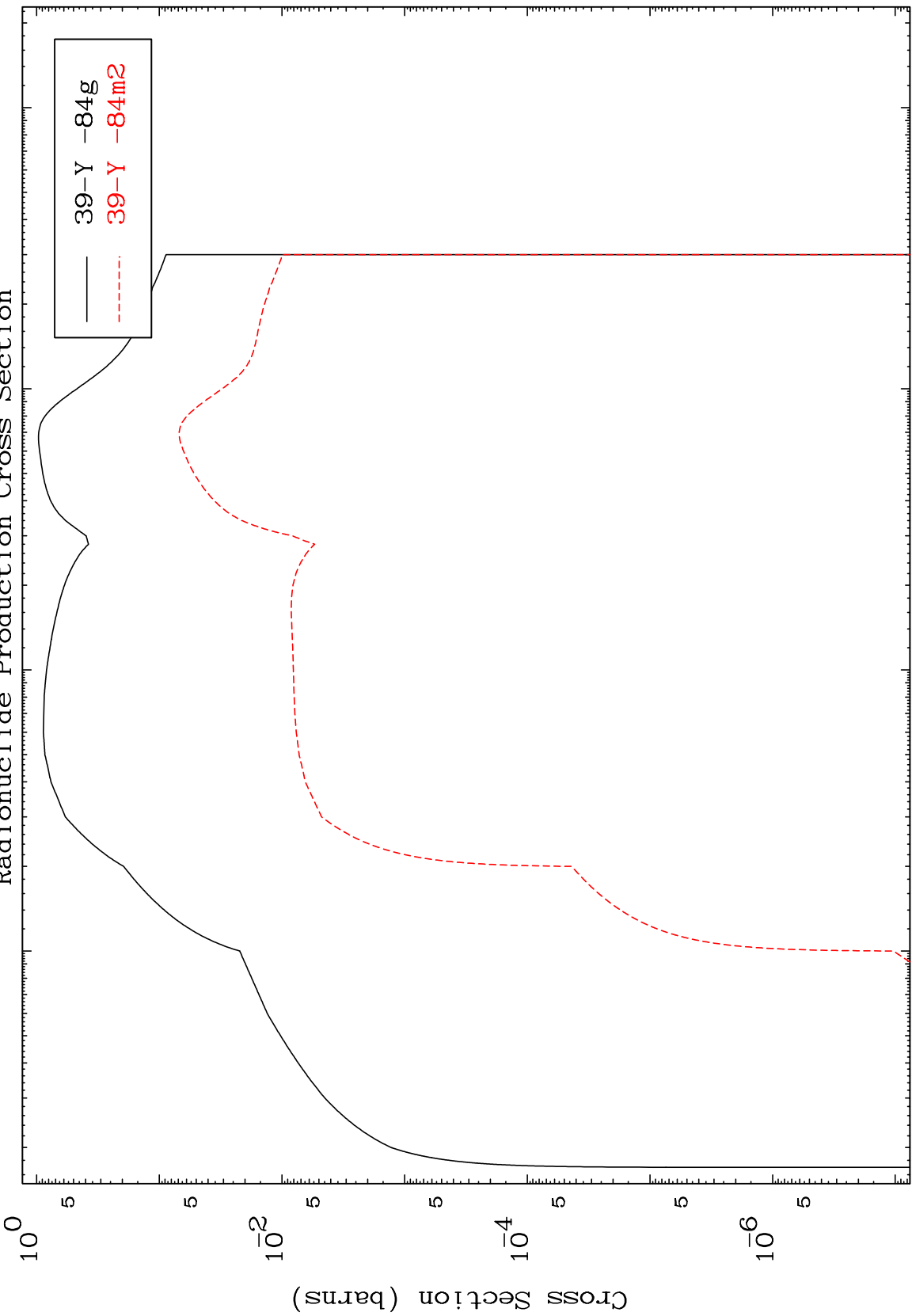
74

39-Y -84

MAT 3910

39-Y -84

Inelastic  
Radionuclide Production Cross Section



75

39-Y -84

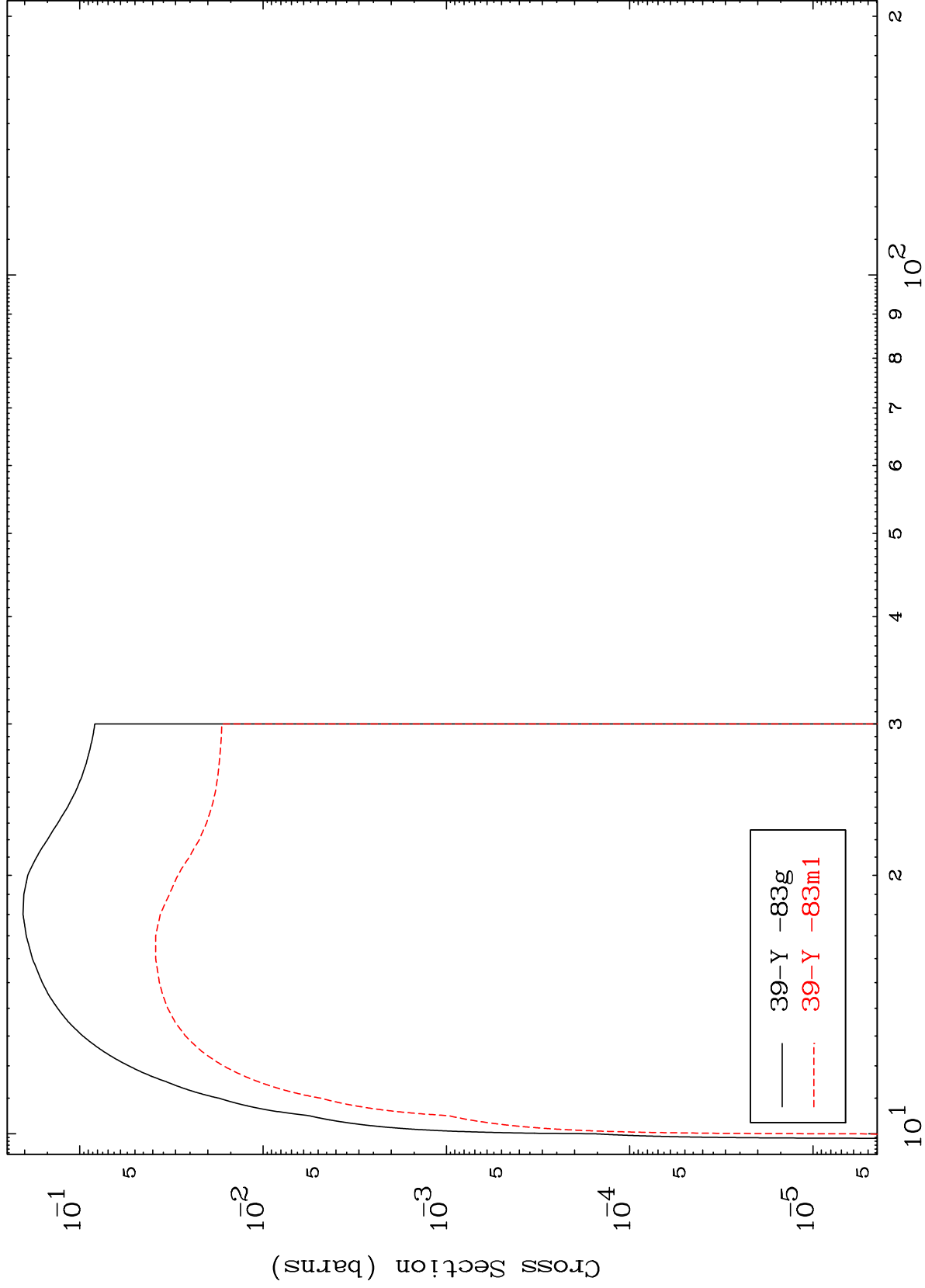
Incident Energy (MeV)

MAT 3910

(n,2n)

39-Y -84

Radionuclide Production Cross Section

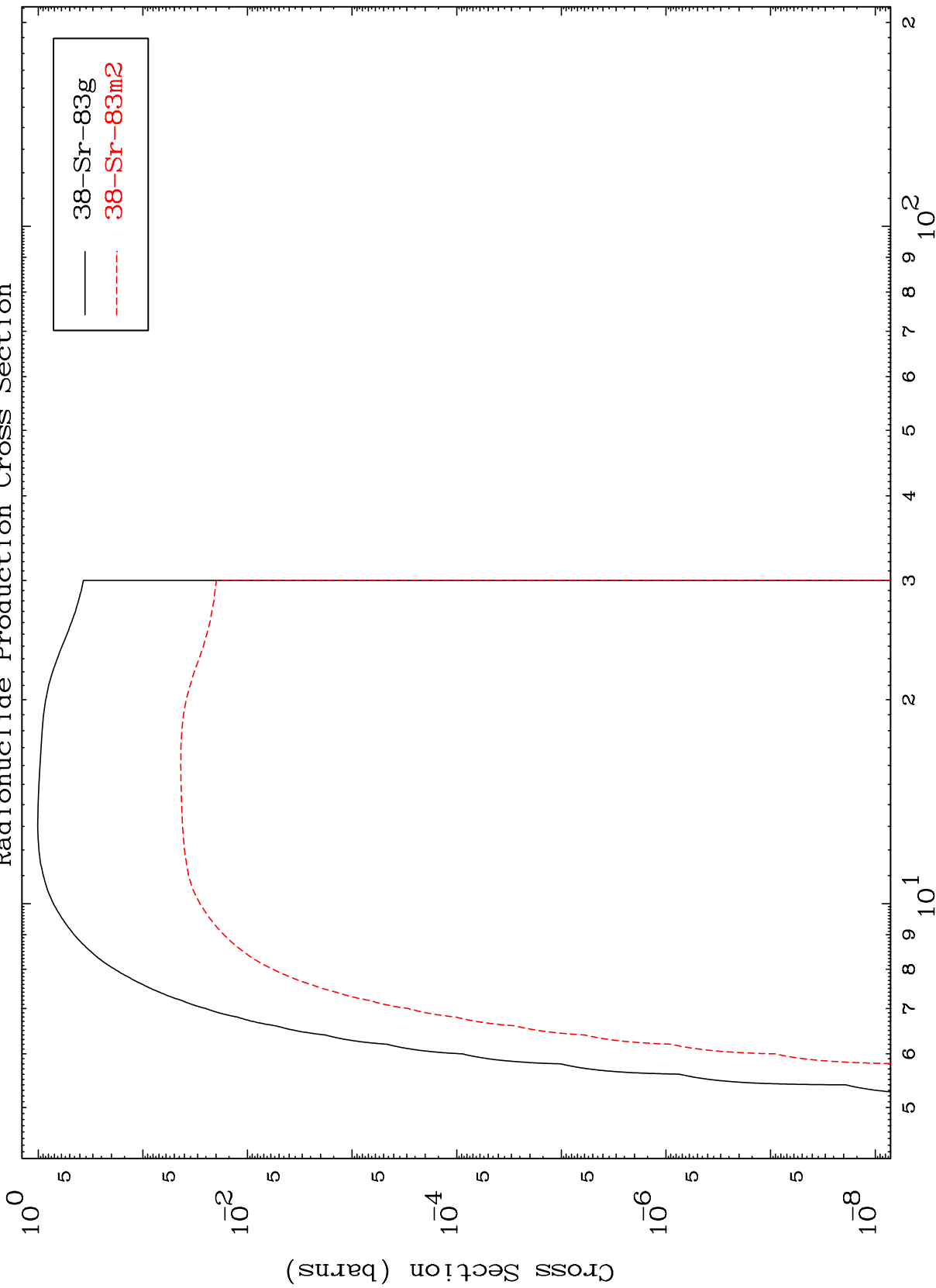


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Incident Energy (MeV)

39-Y -84

Radionuclide Production Cross Section

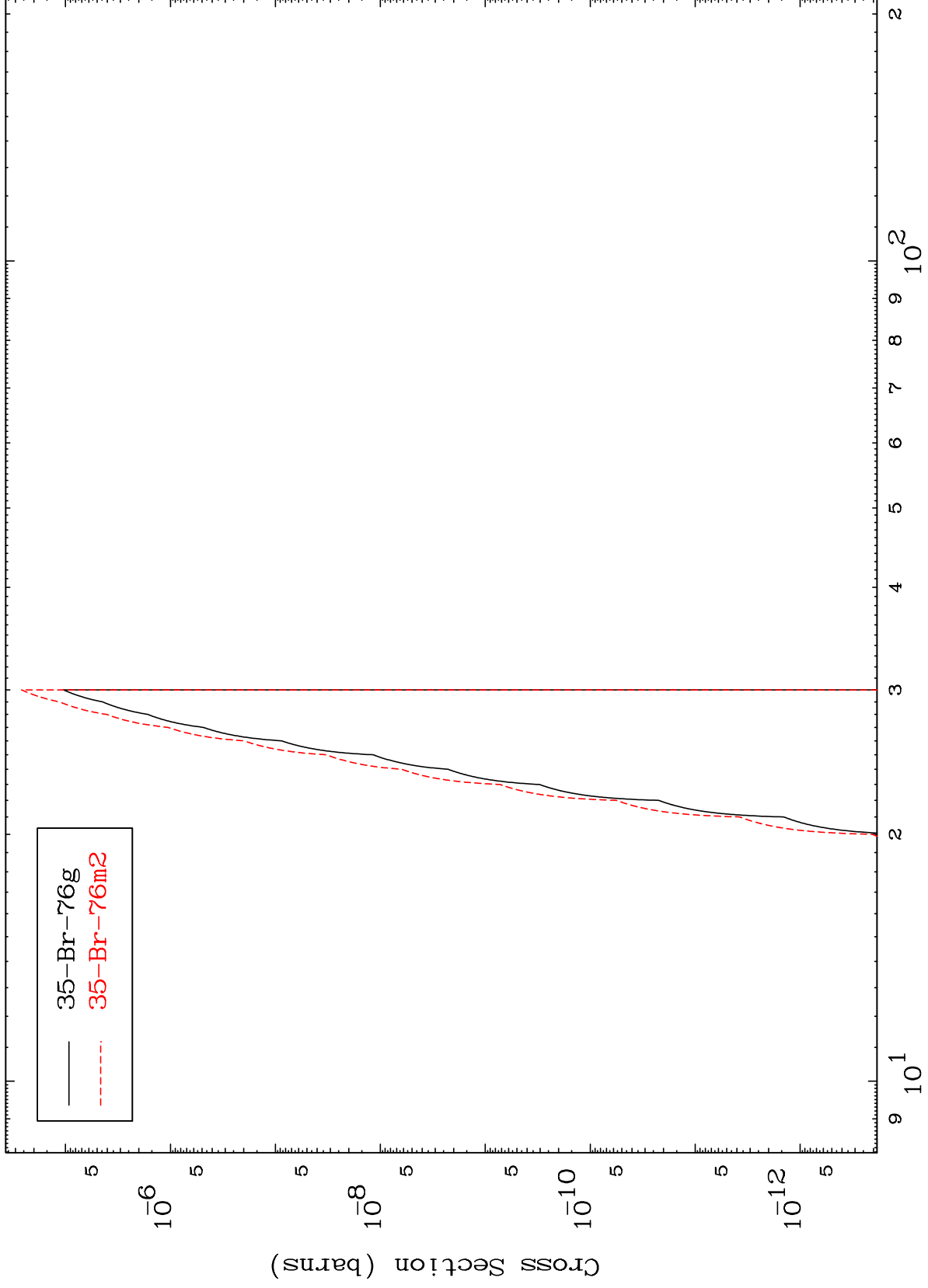


MAT 3910

(n,n') 2α

39-Y -84

Radionuclide Production Cross Section



78

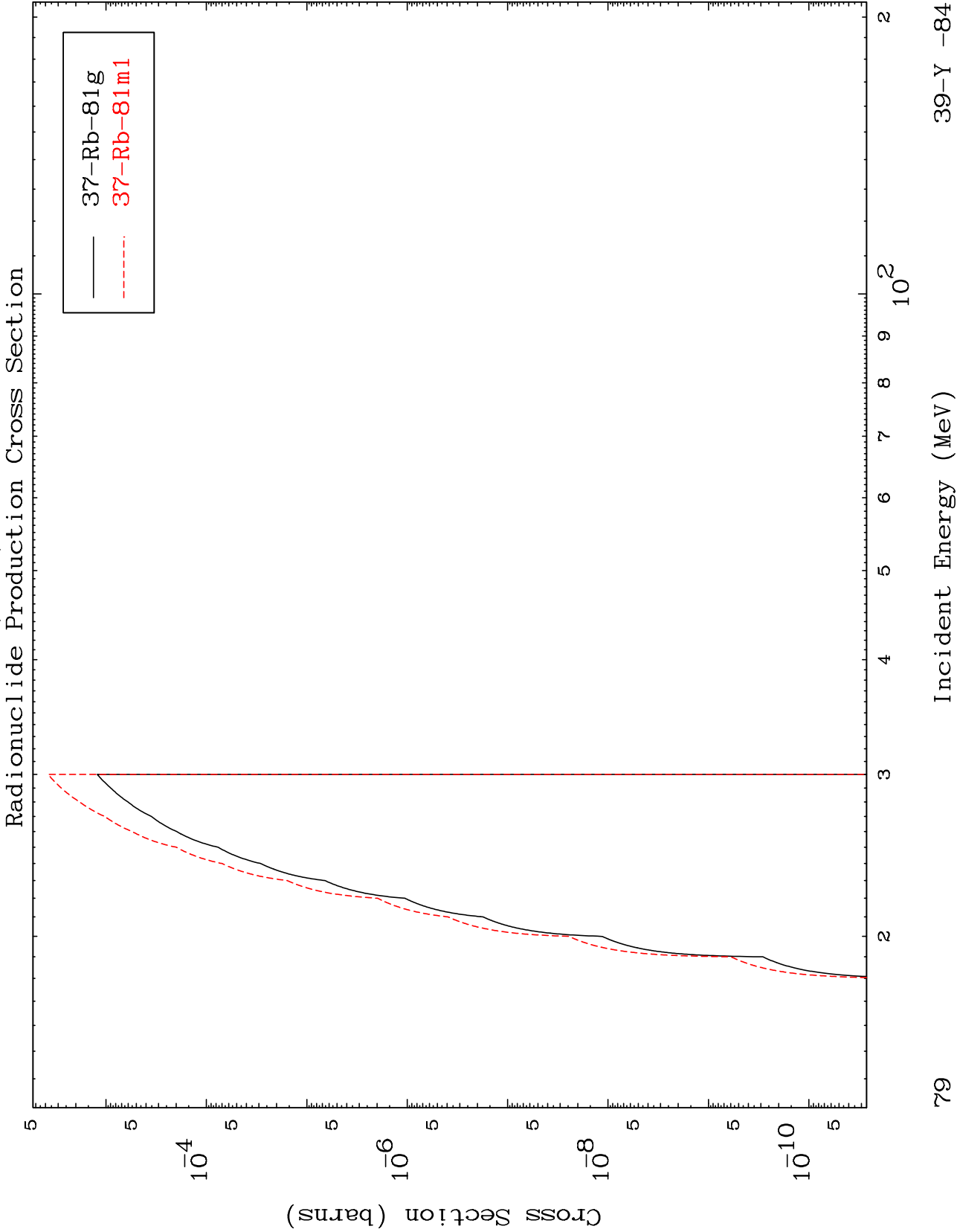
Incident Energy (MeV)

39-Y -84

MAT 3910

(n,n') He-3

39-Y -84



79

Incident Energy (MeV)

39-Y -84

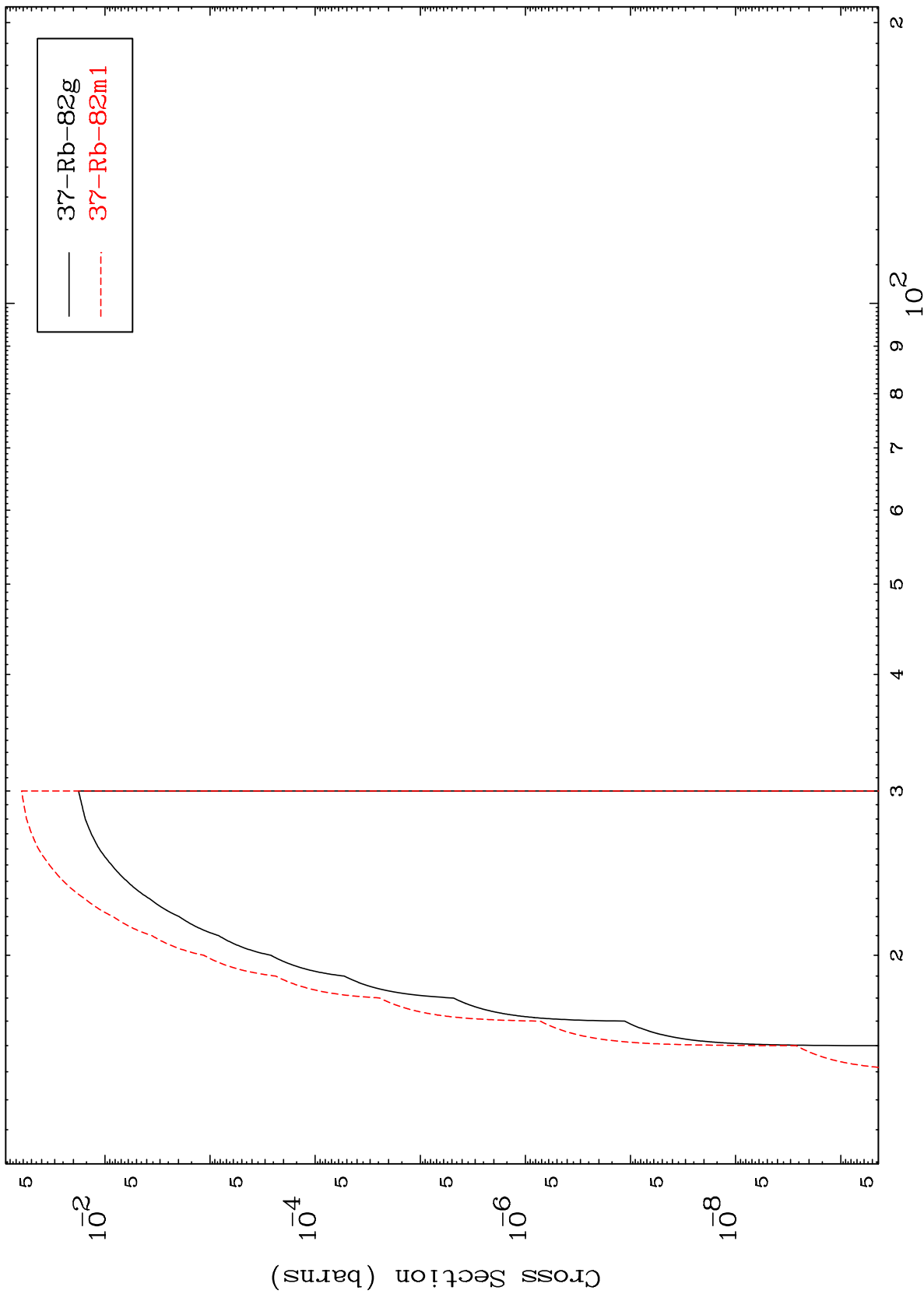


MAT 3910

(n,2n) p

39-Y -84

Radionuclide Production Cross Section



37-Rb-82g  
37-Rb-82m1

80

Incident Energy (MeV)

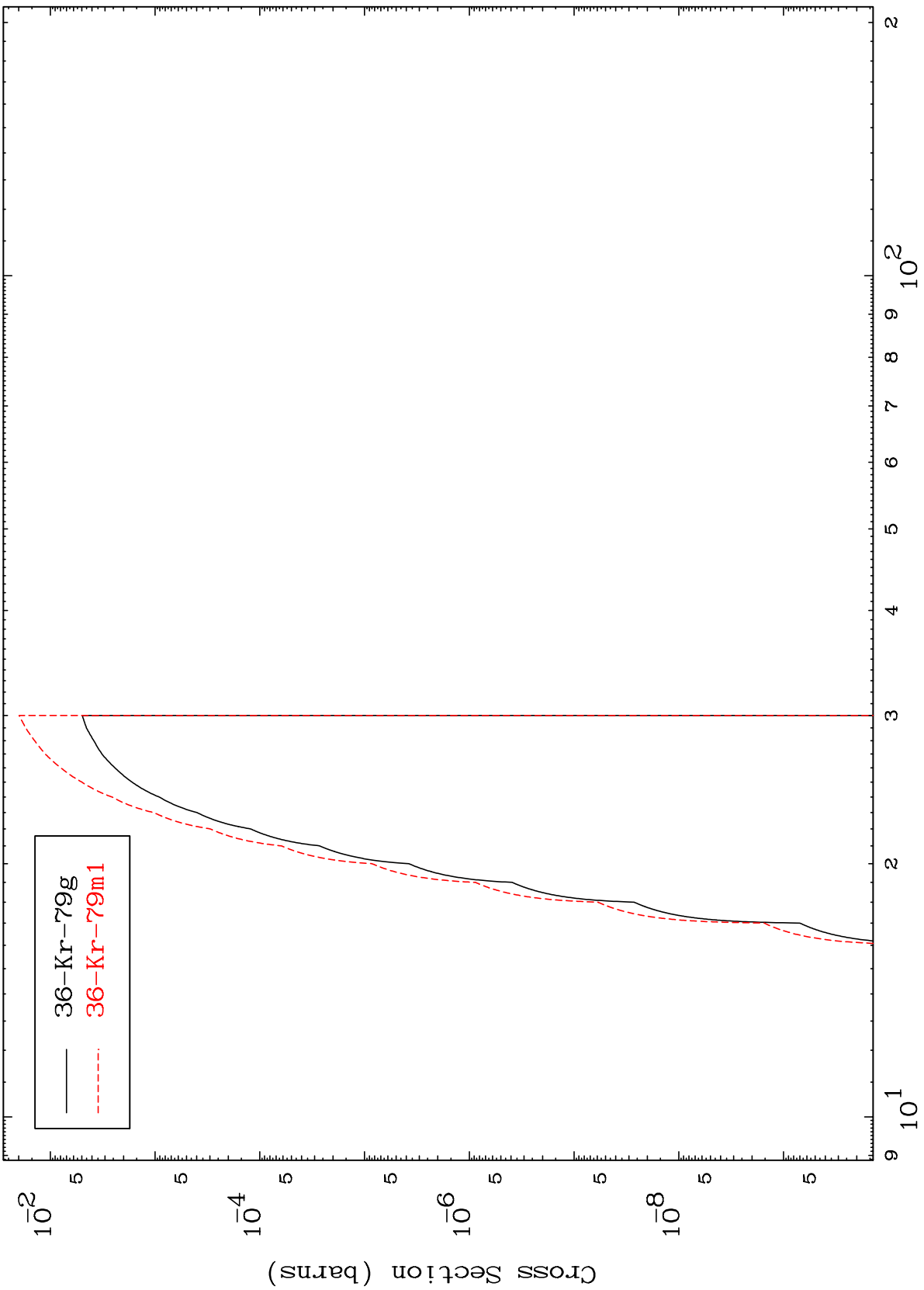
39-Y -84

MAT 3910

(n,n') p  $\alpha$

39-Y -84

Radionuclide Production Cross Section



81

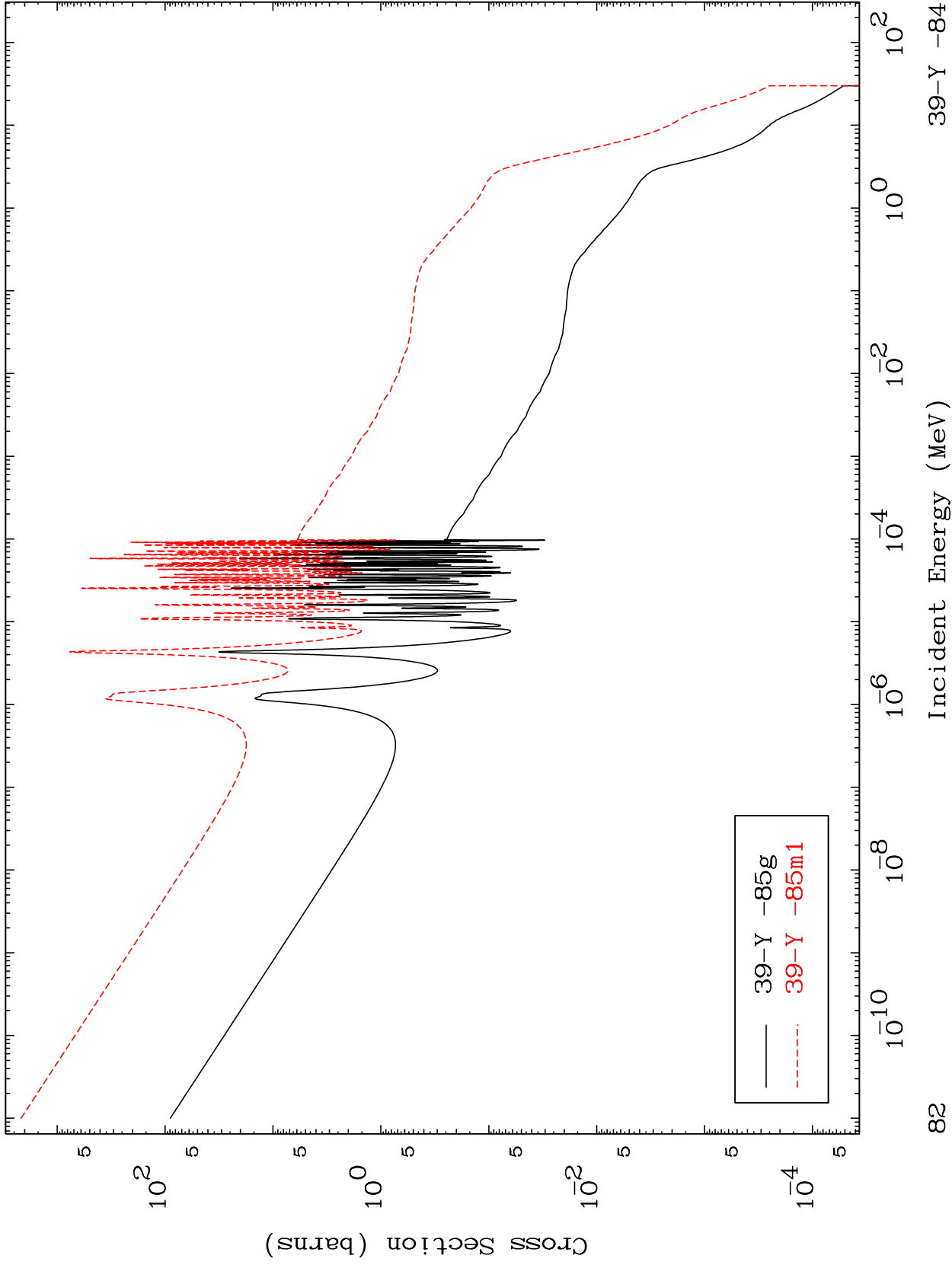
Incident Energy (MeV)

39-Y -84

MAT 3910

39-Y -84

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



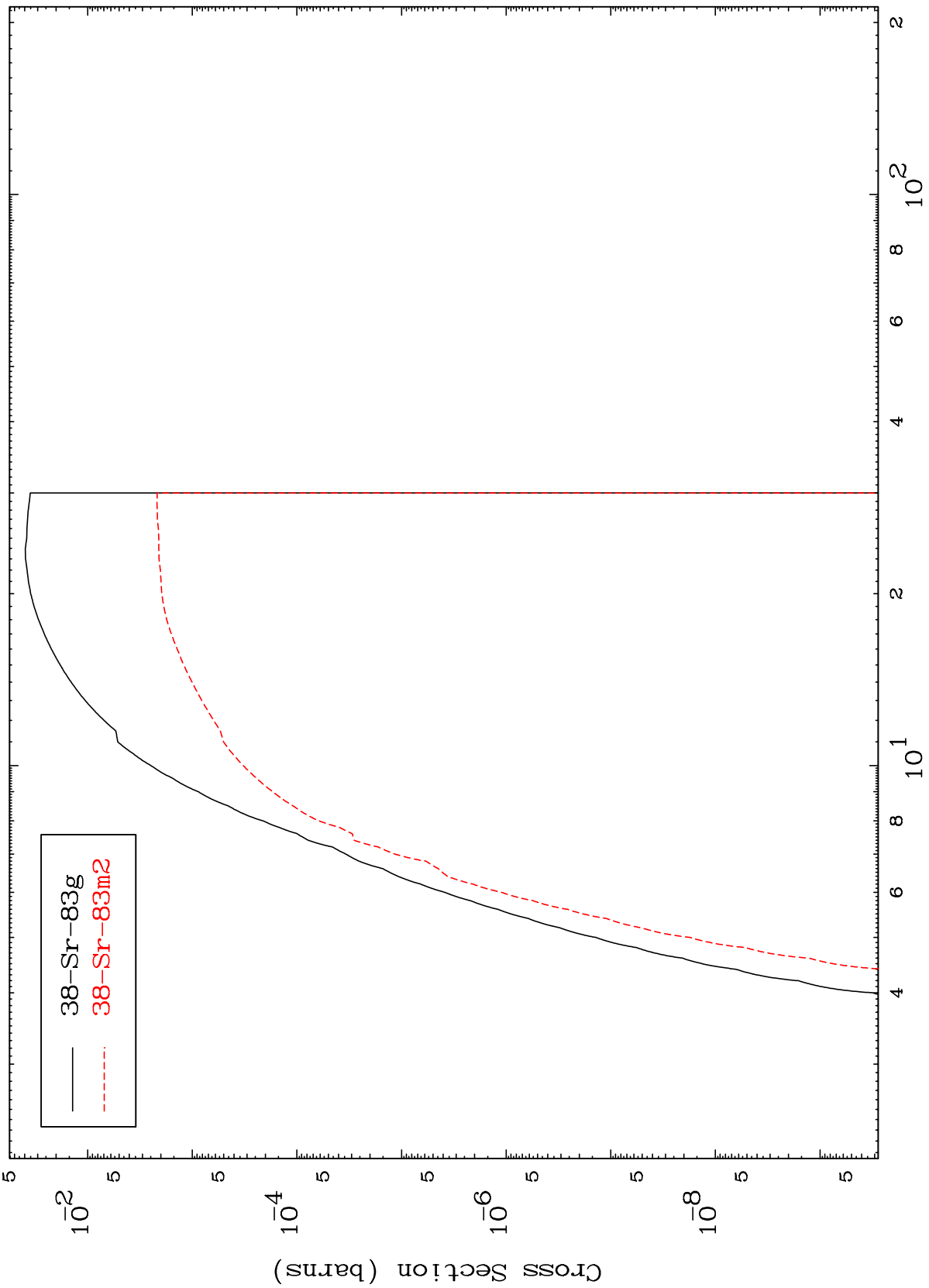
82

39-Y -84

MAT 3910

39-Y -84

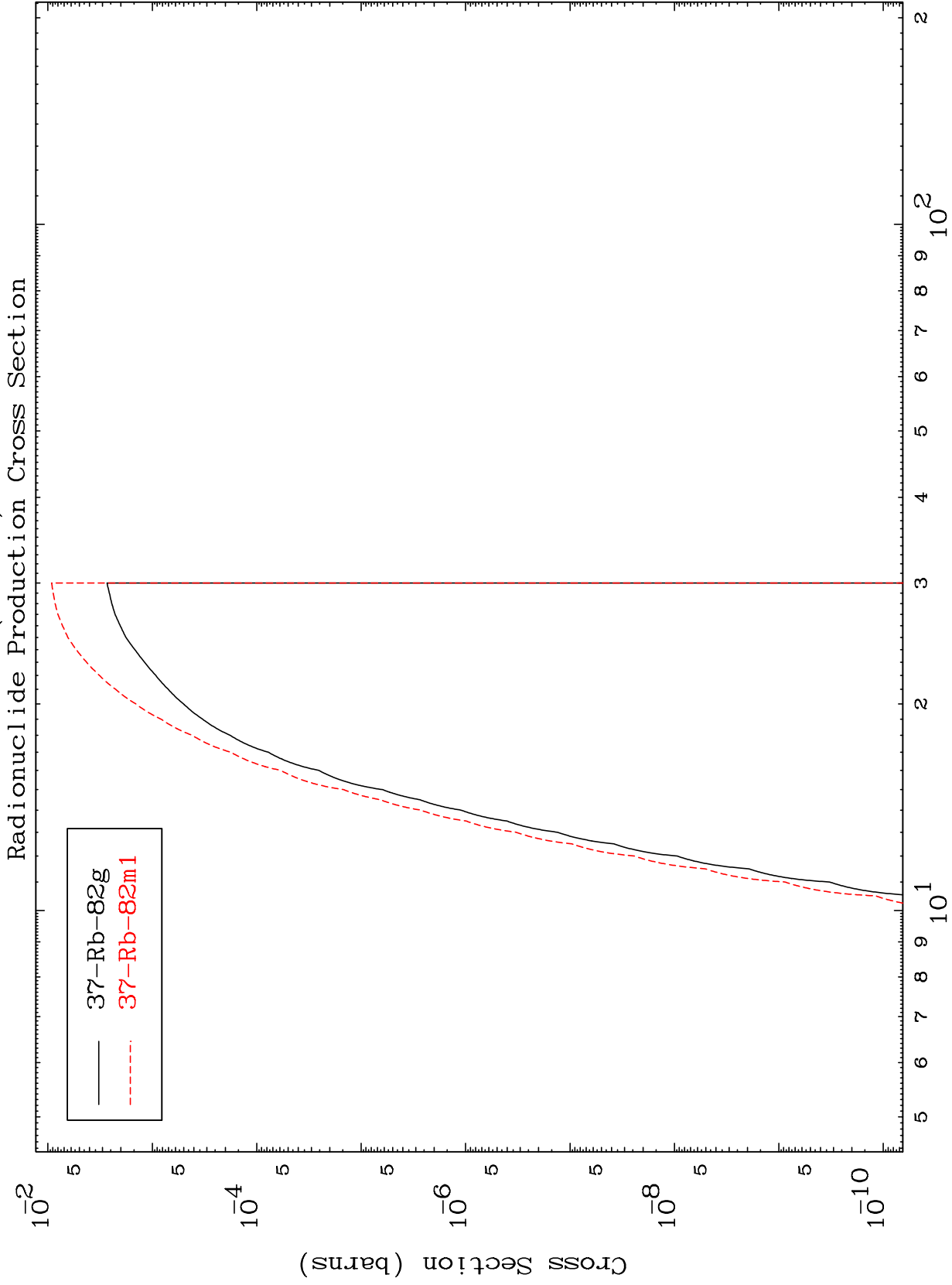
(n,d)  
Radionuclide Production Cross Section



83

39-Y -84

Incident Energy (MeV)

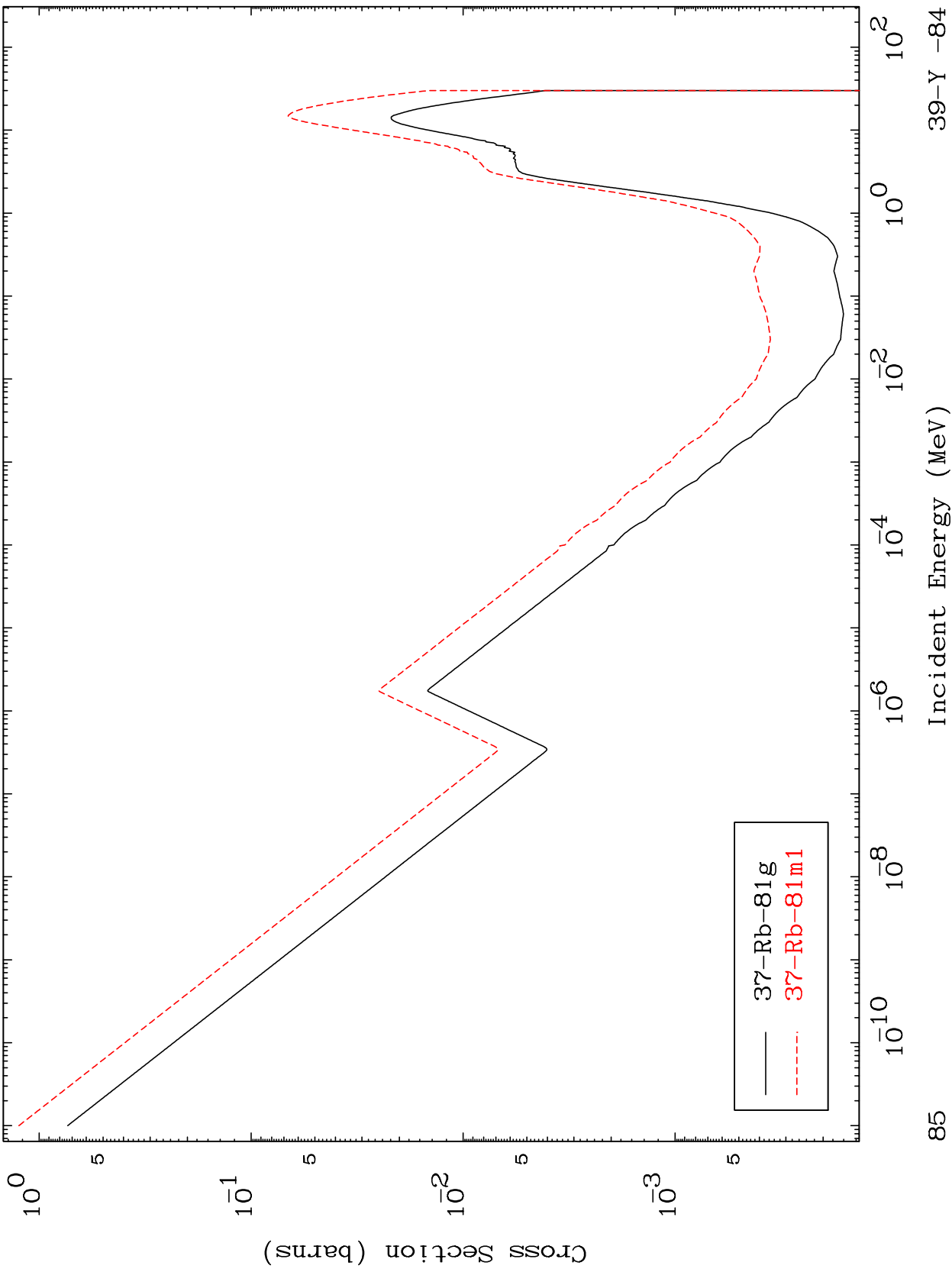


MAT 3910

39-Y -84

Radionuclide Production Cross Section

(n,  $\alpha$ )



85

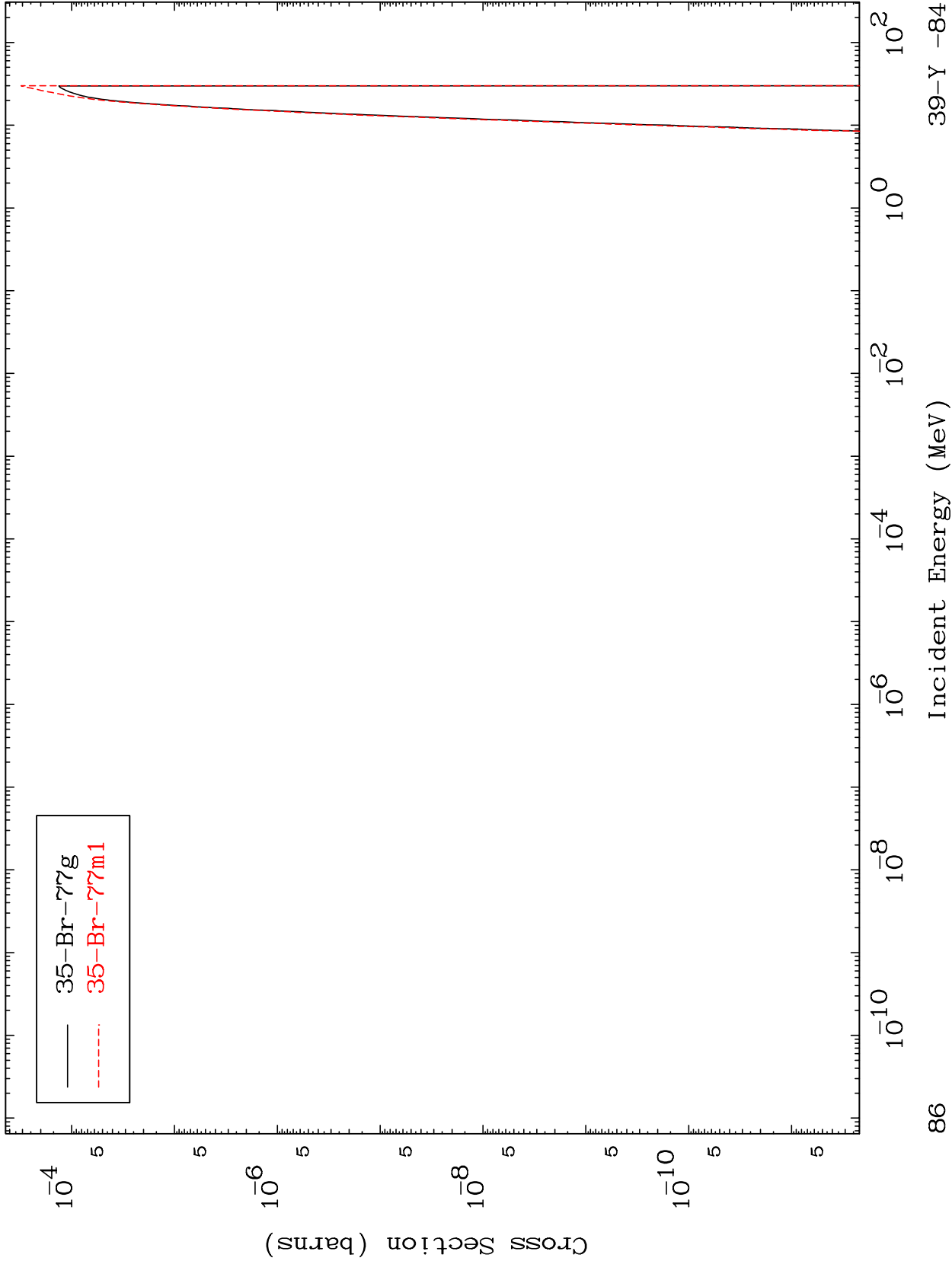
39-Y -84

MAT 3910

(n,2α)

39-Y -84

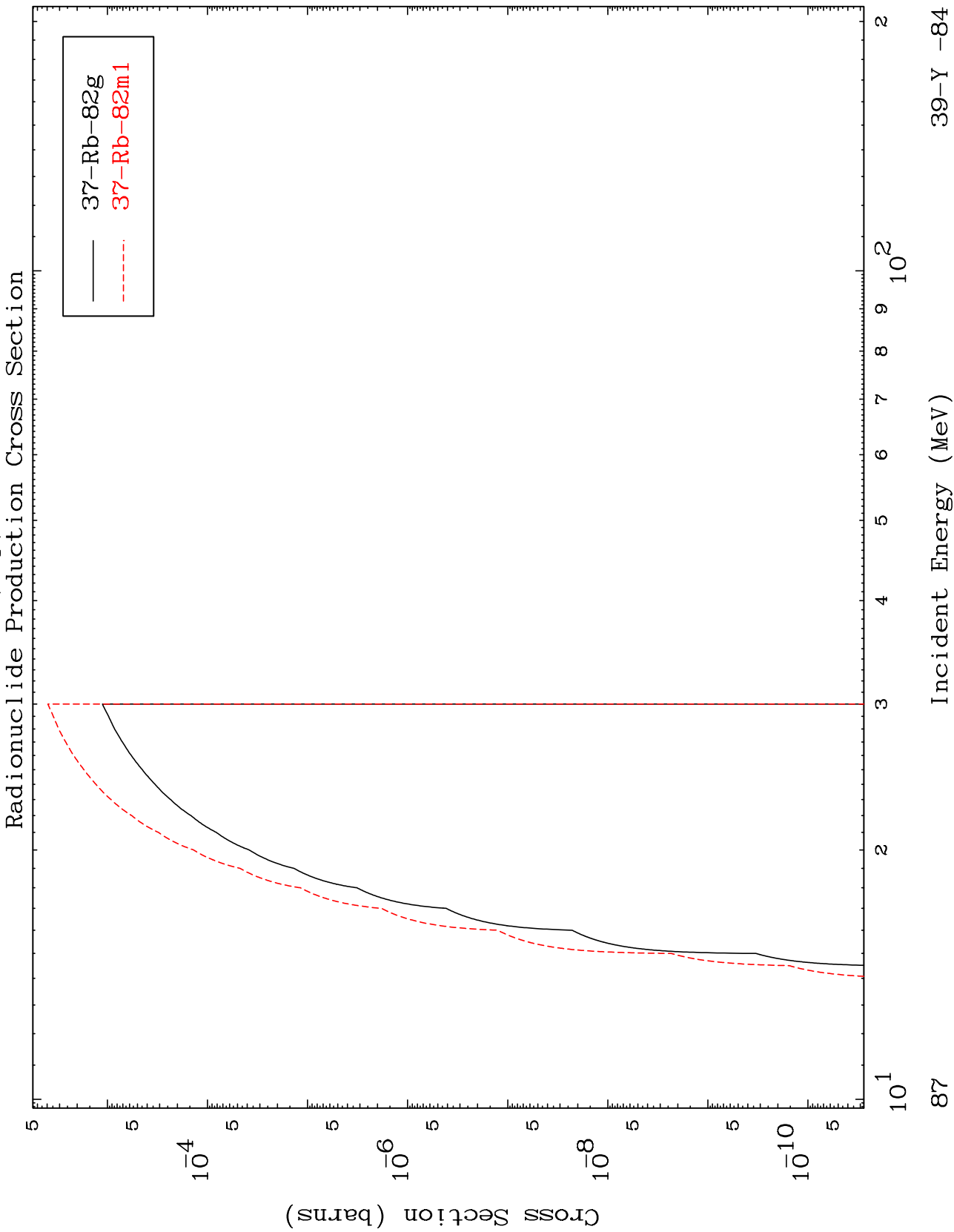
Radionuclide Production Cross Section



MAT 3910

(n,p) d

39-Y -84

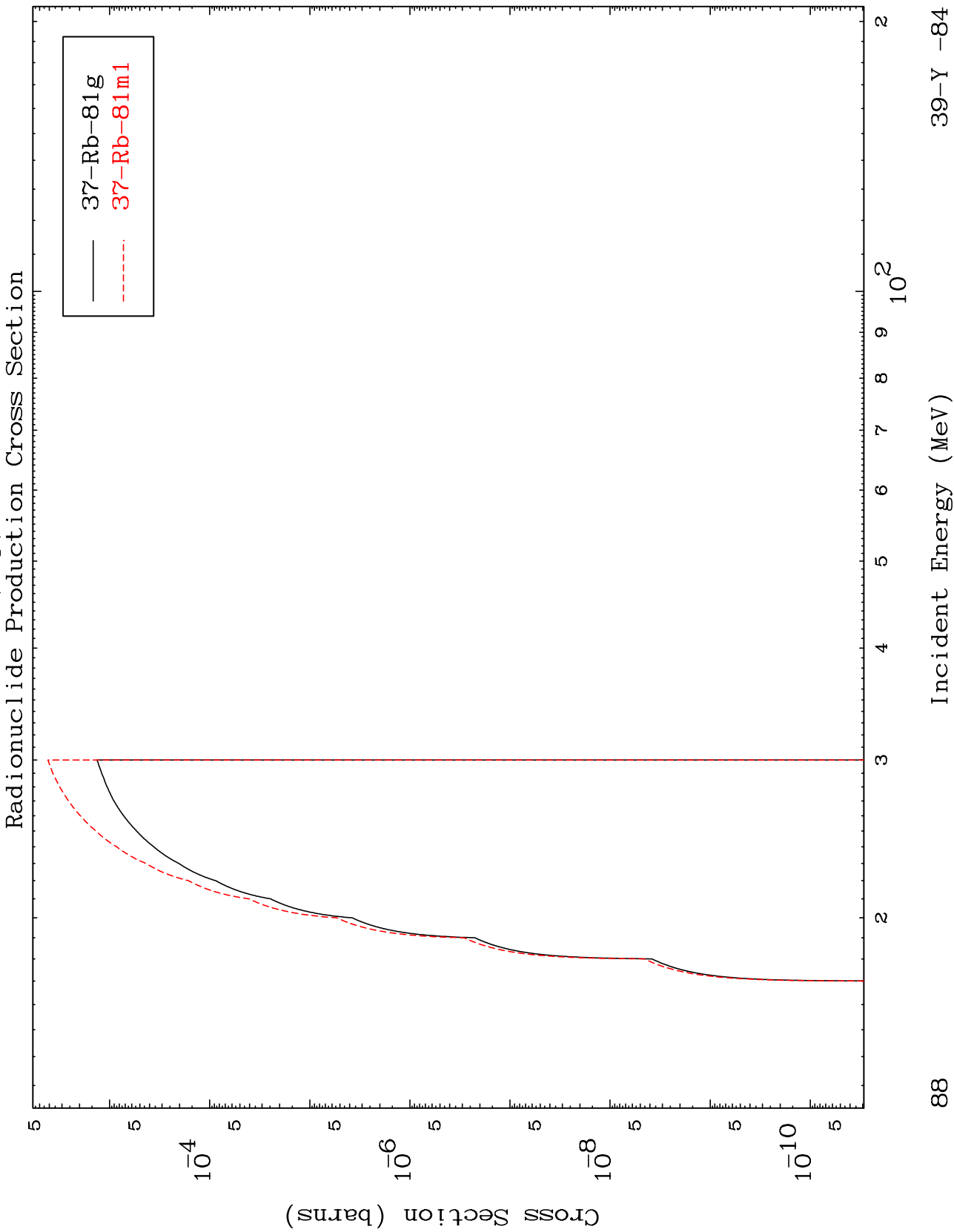


87

Incident Energy (MeV)

39-Y -84

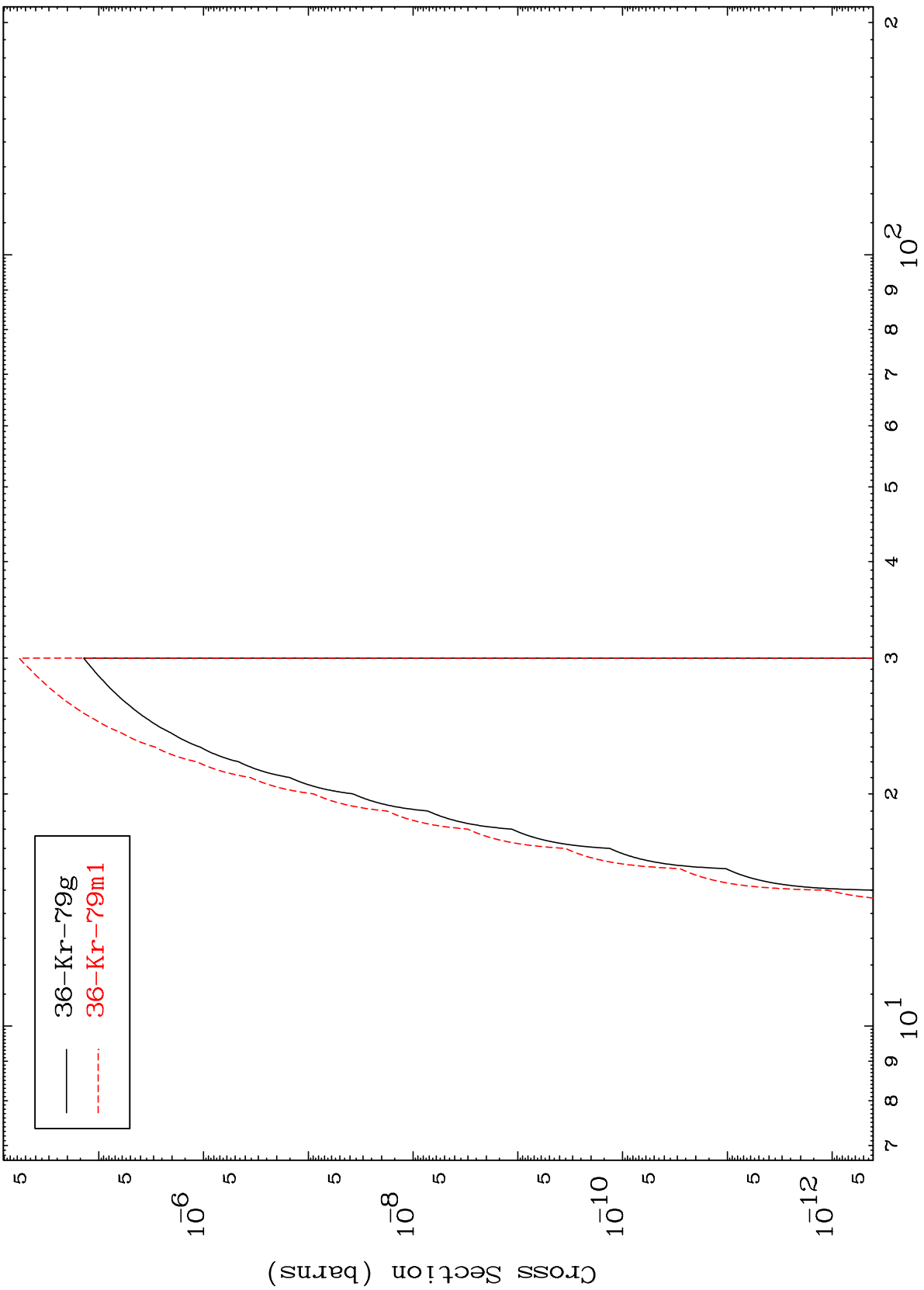




MAT 3910

39-Y -84

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



89

Incident Energy (MeV)

39-Y -84