

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

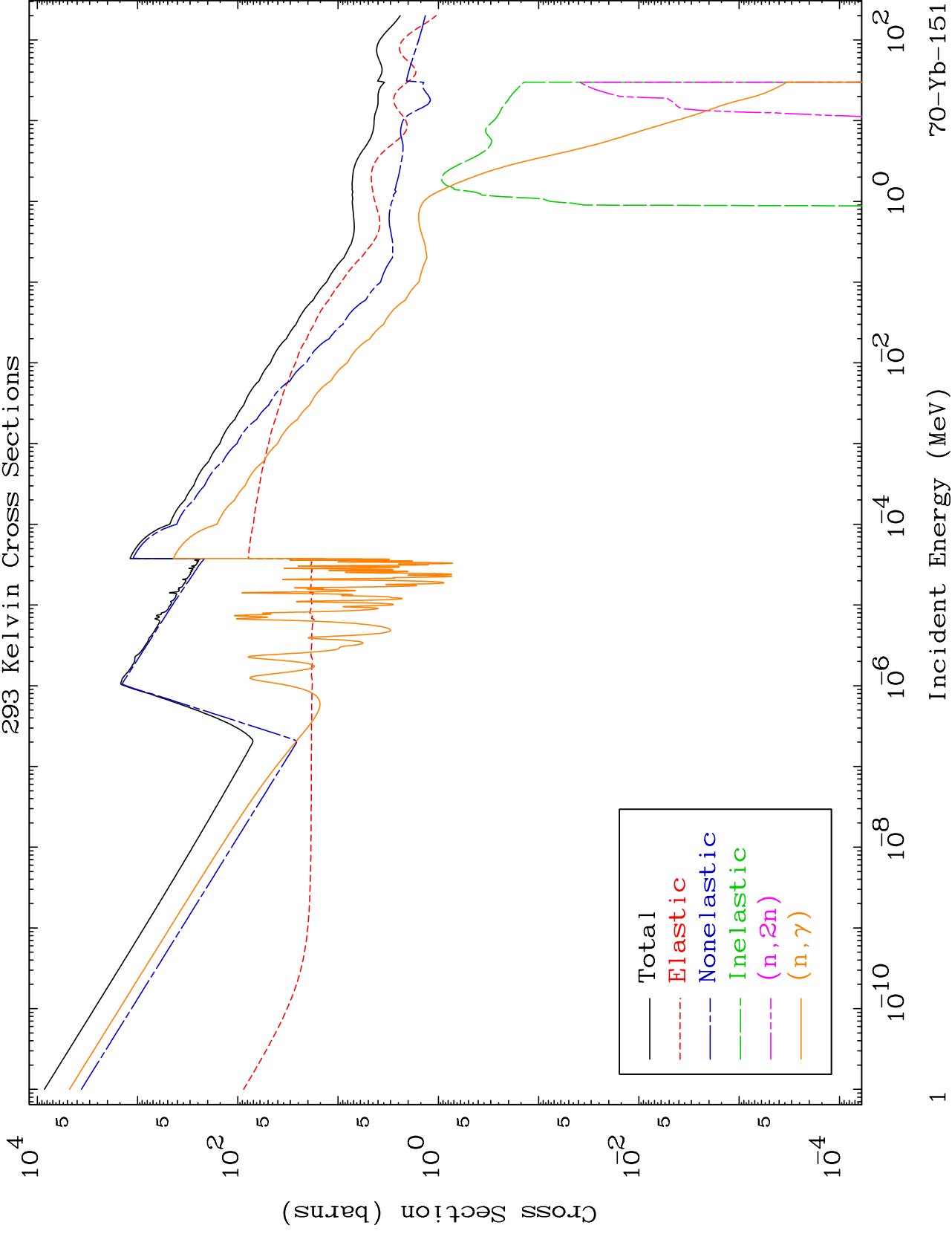
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6974

Neutron Major  
293 Kelvin Cross Sections

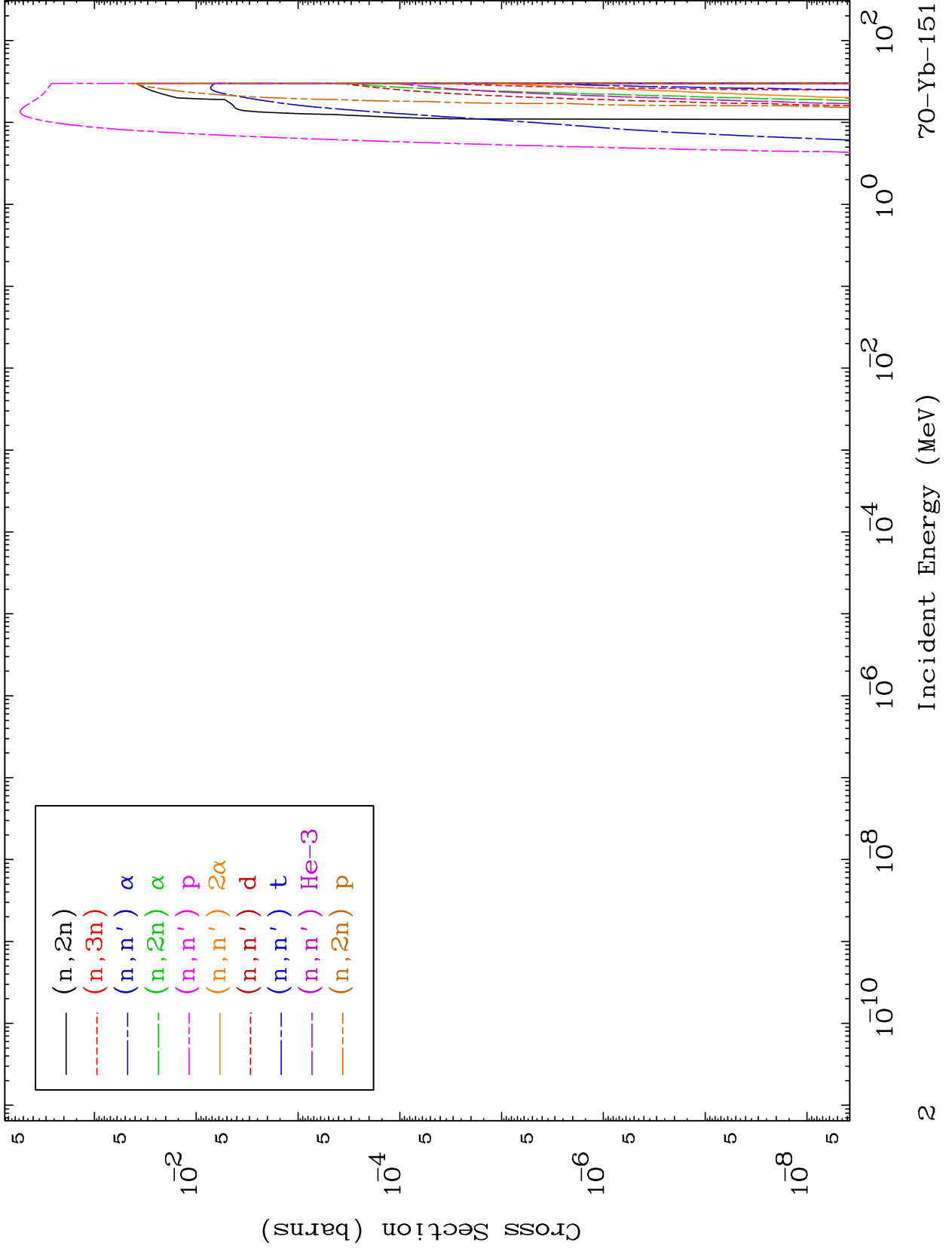
70-Yb-151



MAT 6974

Neutron Absorption  
293 Kelvin Cross Sections

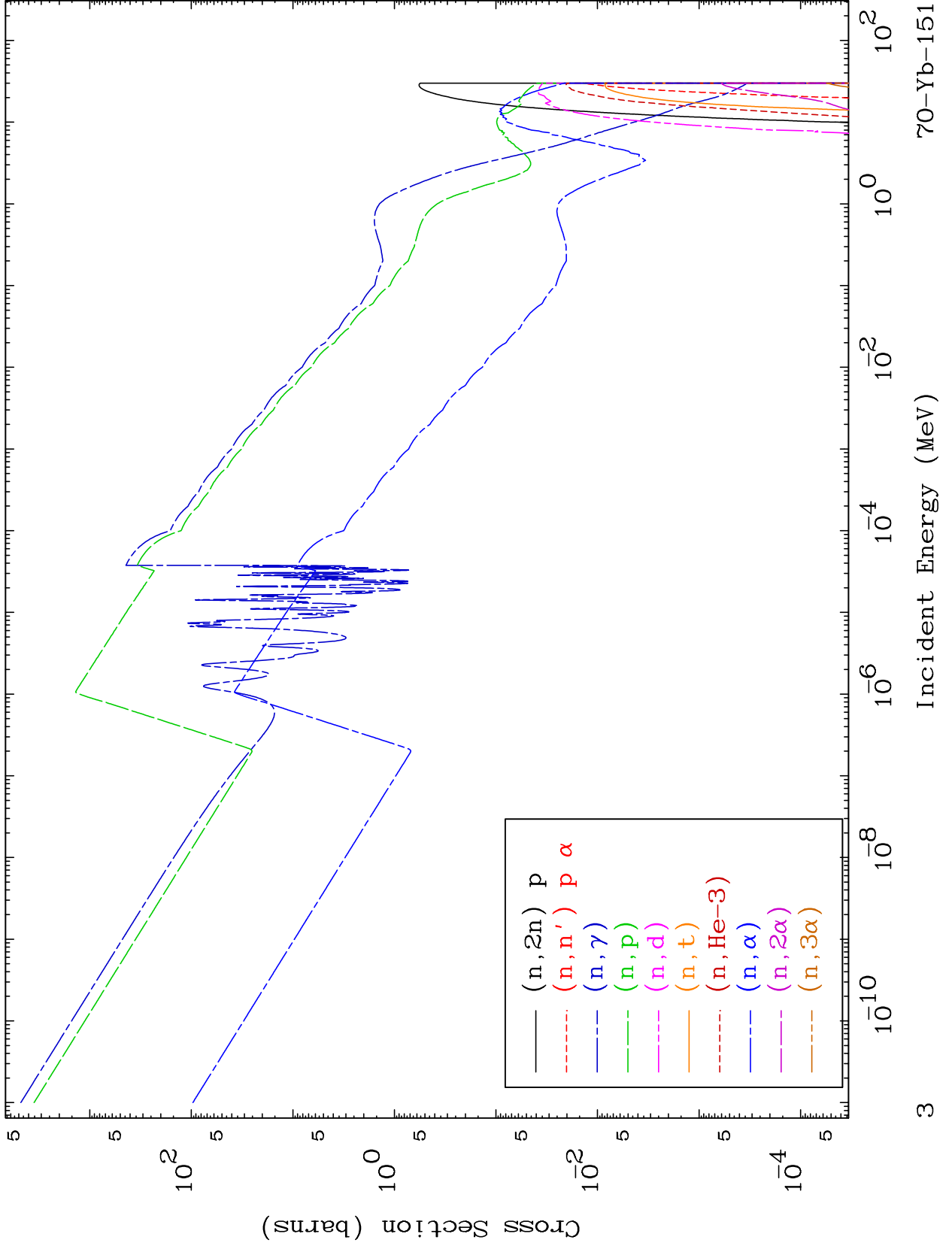
70-Yb-151

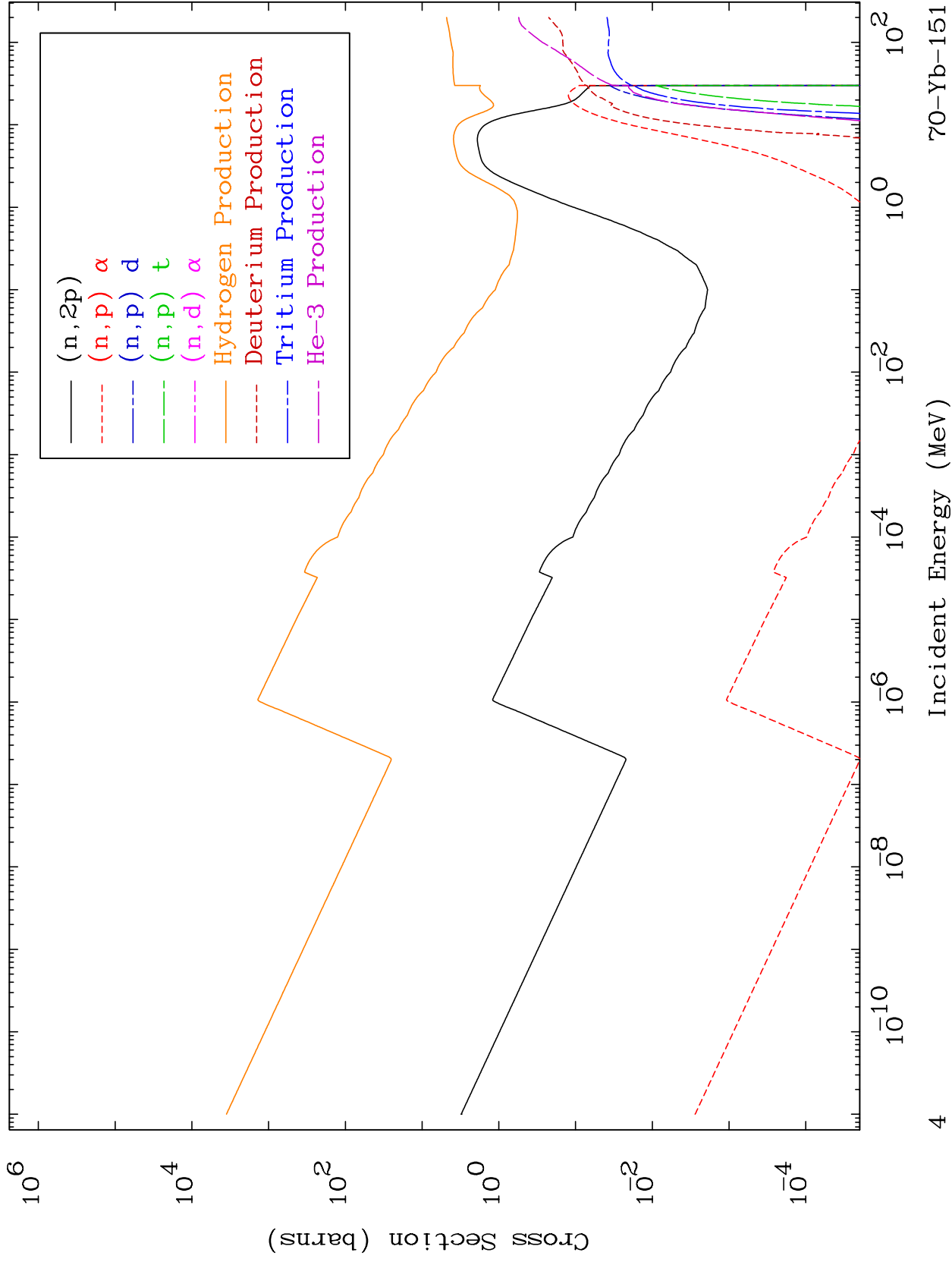


MAT 6974

Neutron Absorption  
293 Kelvin Cross Sections

70-Yb-151

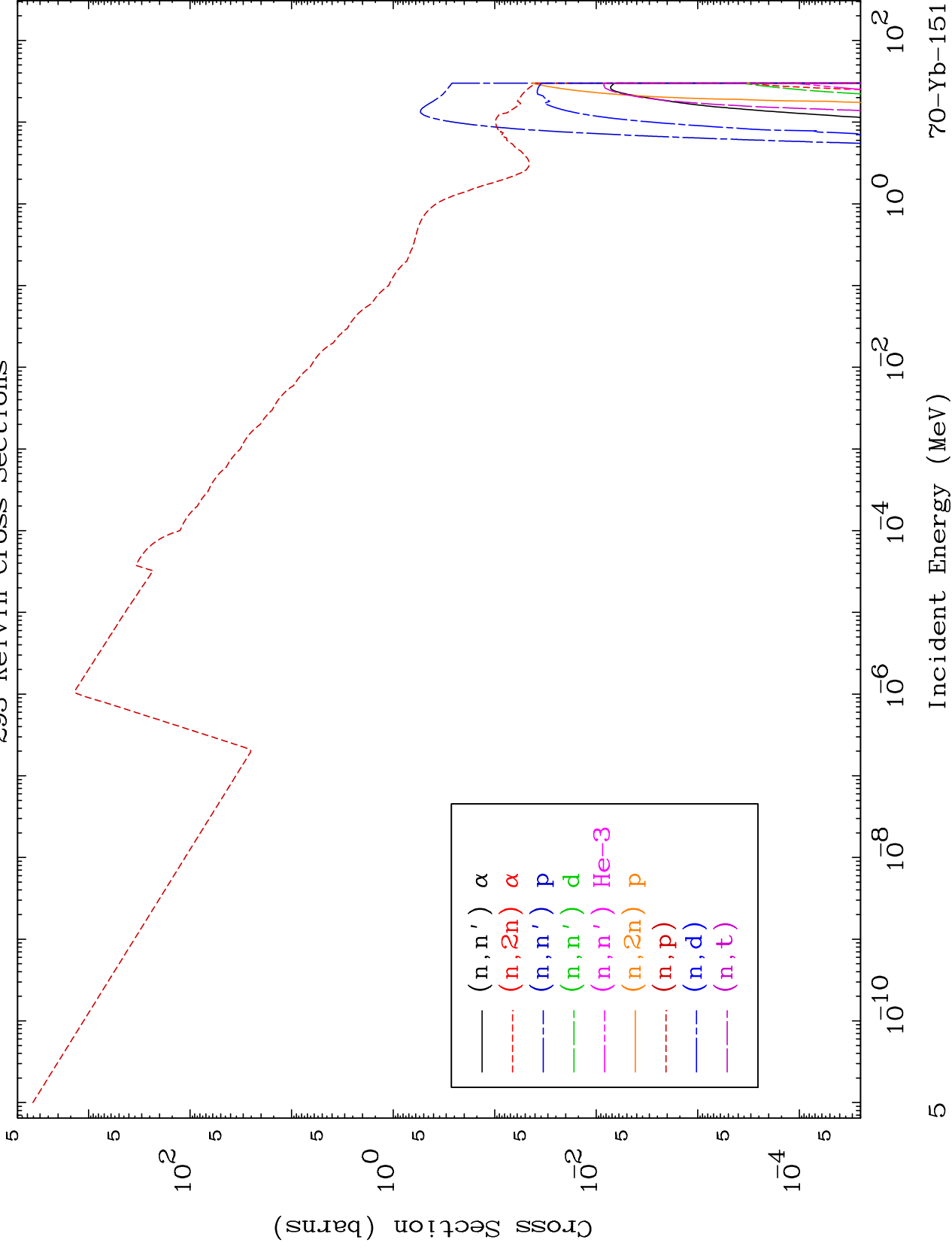




MAT 6974

Charged Particle  
293 Kelvin Cross Sections

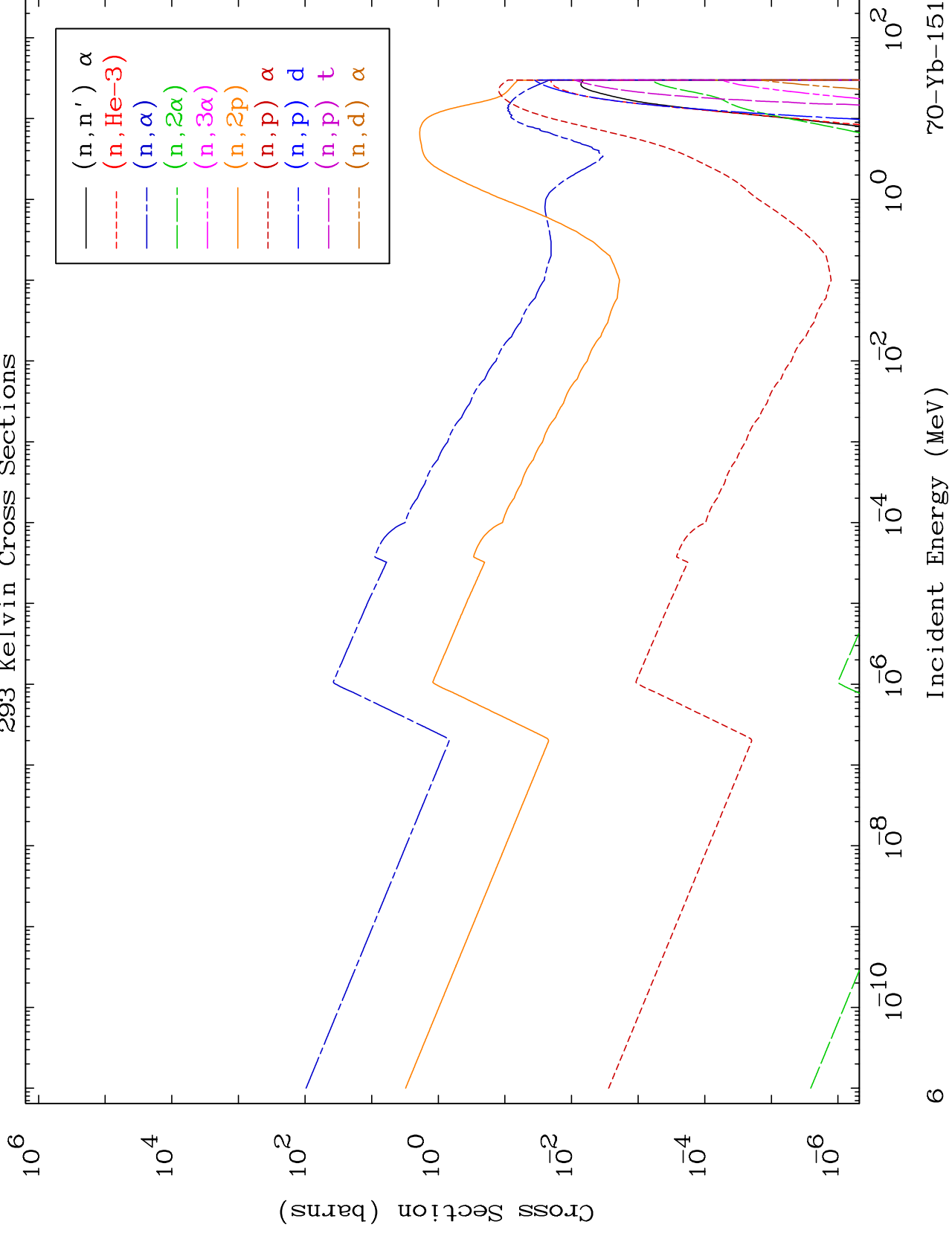
70-Yb-151



MAT 6974

Charged Particle  
293 Kelvin Cross Sections

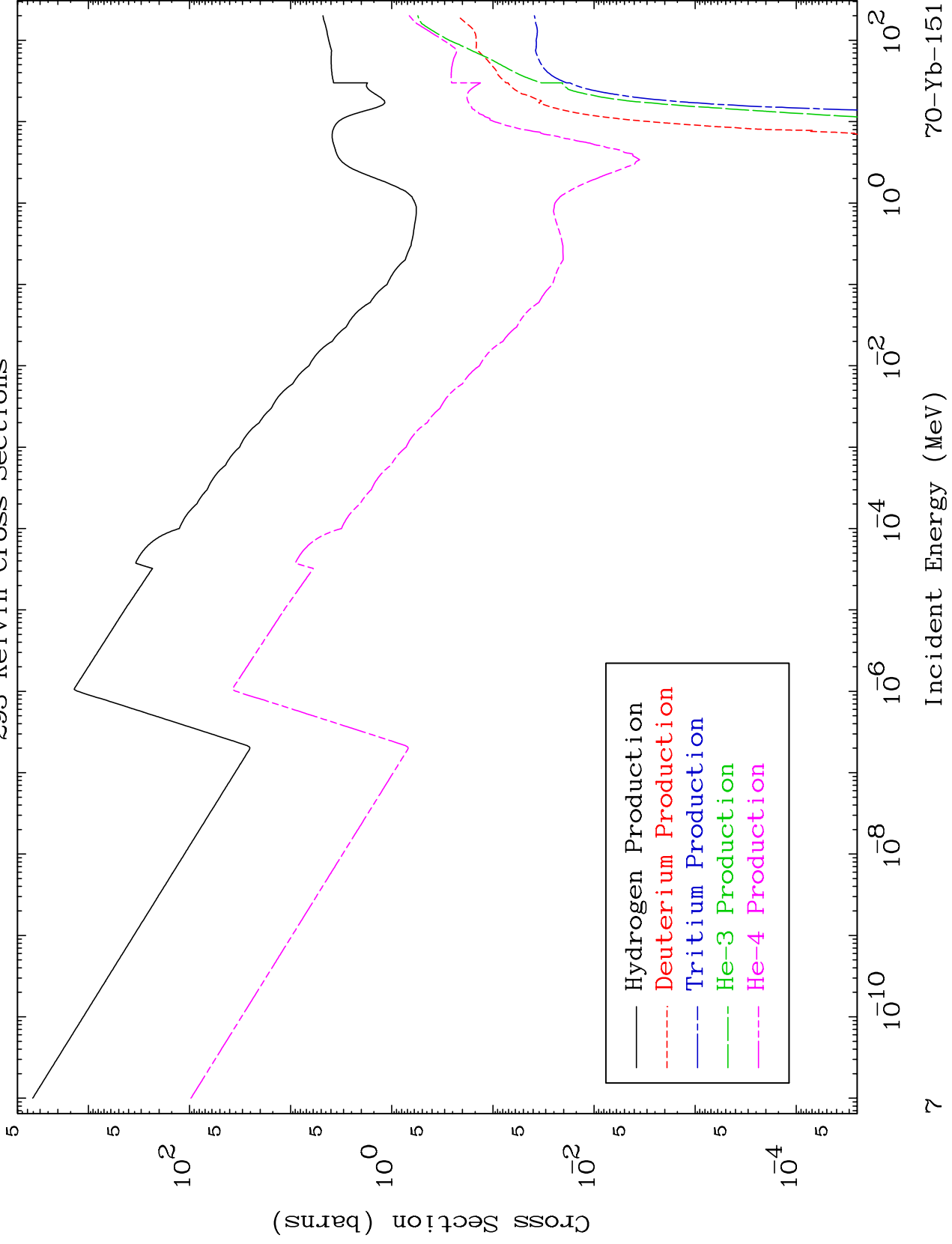
70-Yb-151



MAT 6974

Particle Production  
293 Kelvin Cross Sections

70-Yb-151

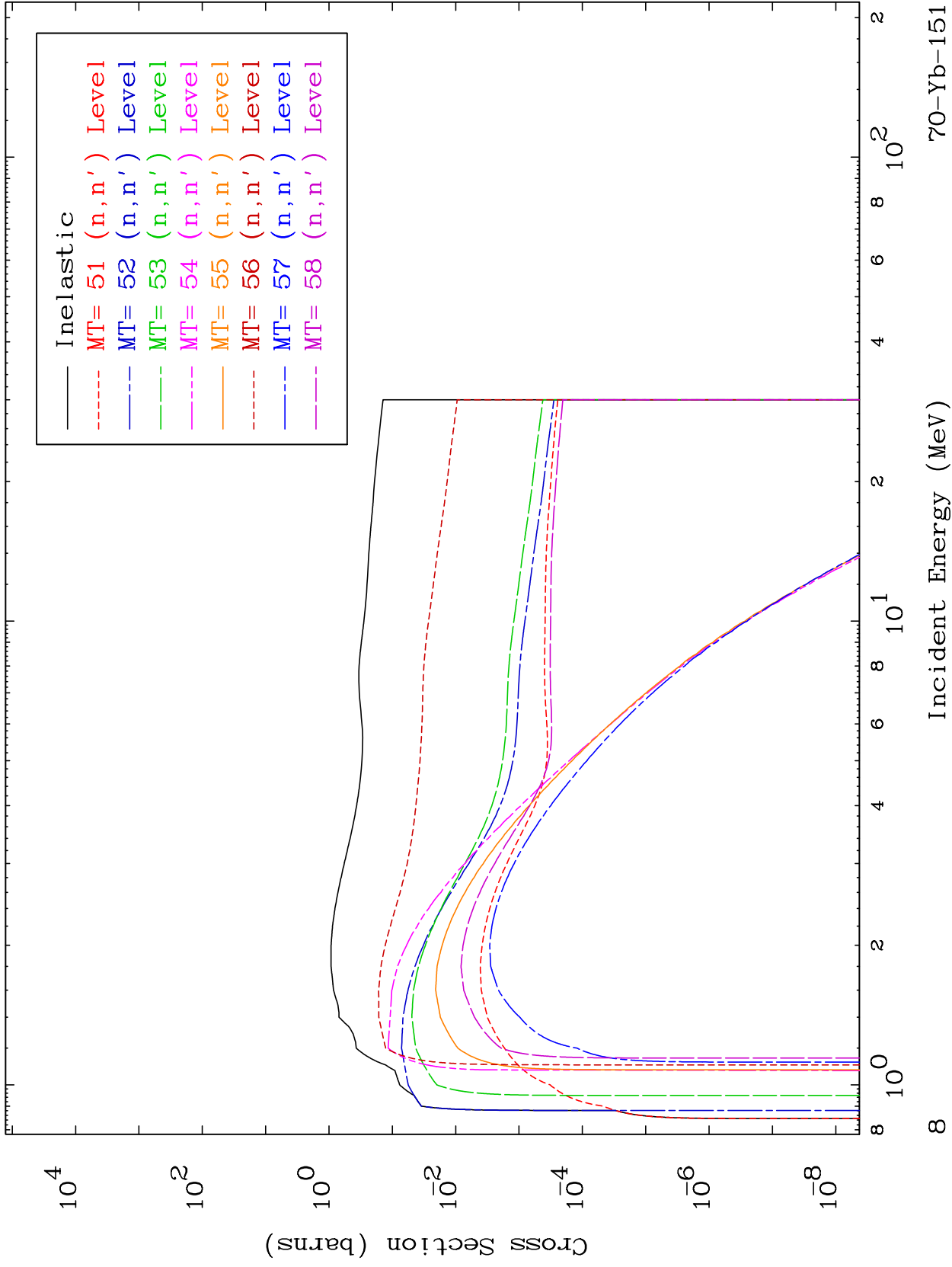


MAT 6974

(n,n') Levels

70-Yb-151

293 Kelvin Cross Sections



70-Yb-151

Incident Energy (MeV)

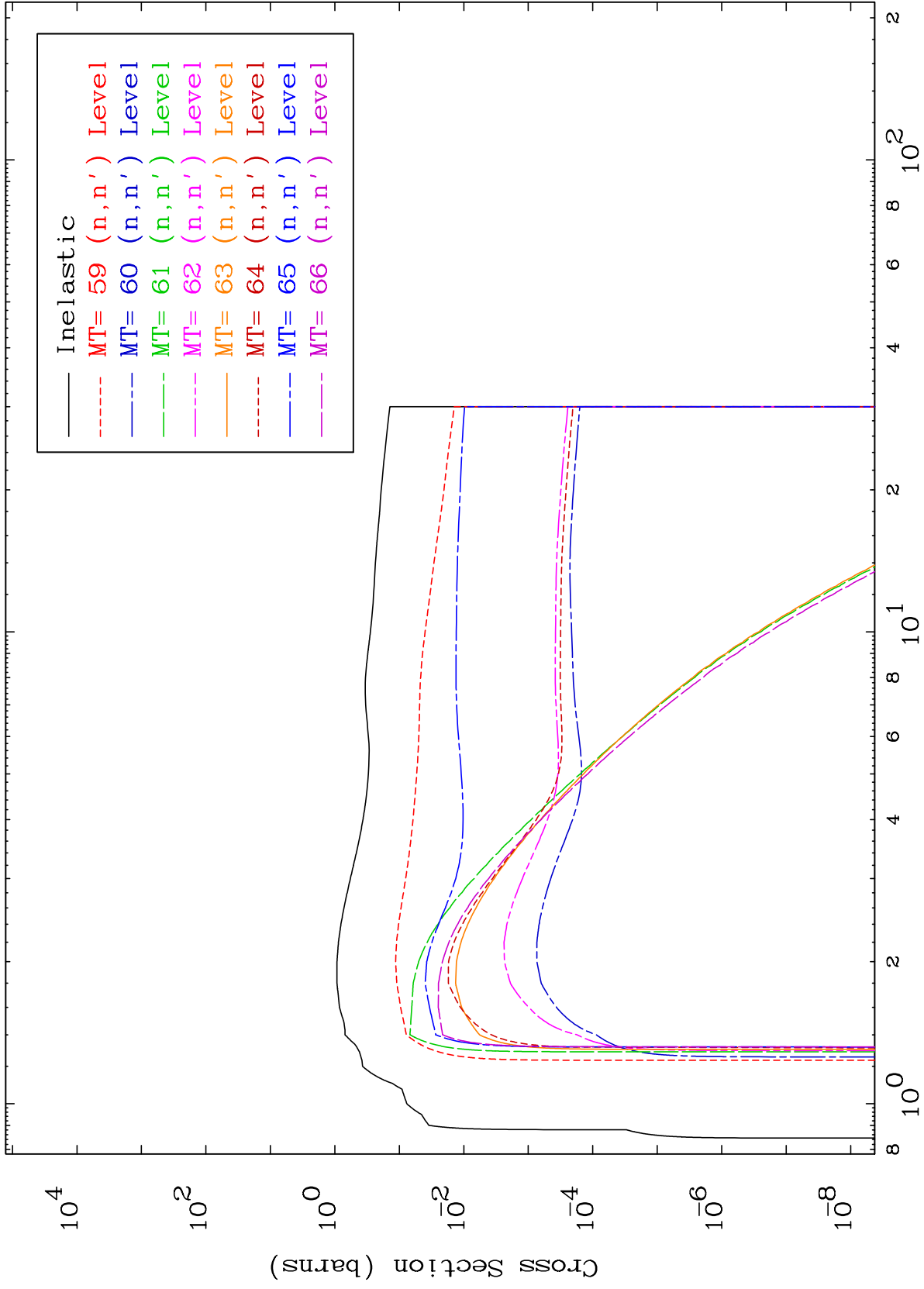
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MAT 6974

(n,n') Levels

70-Yb-151

293 Kelvin Cross Sections



Incident Energy (MeV)

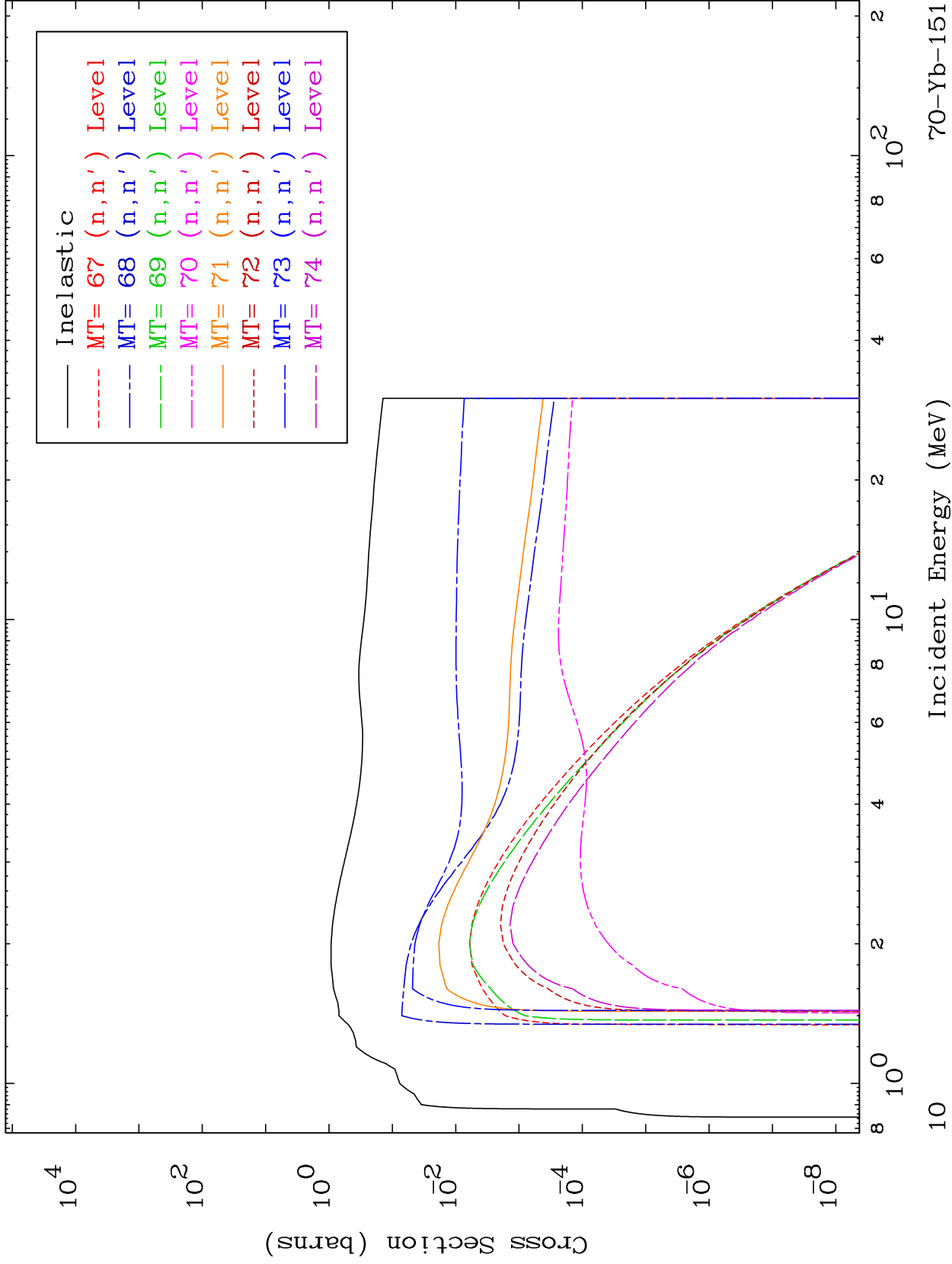
70-Yb-151

MAT 6974

(n,n') Levels

70-Yb-151

293 Kelvin Cross Sections



70-Yb-151

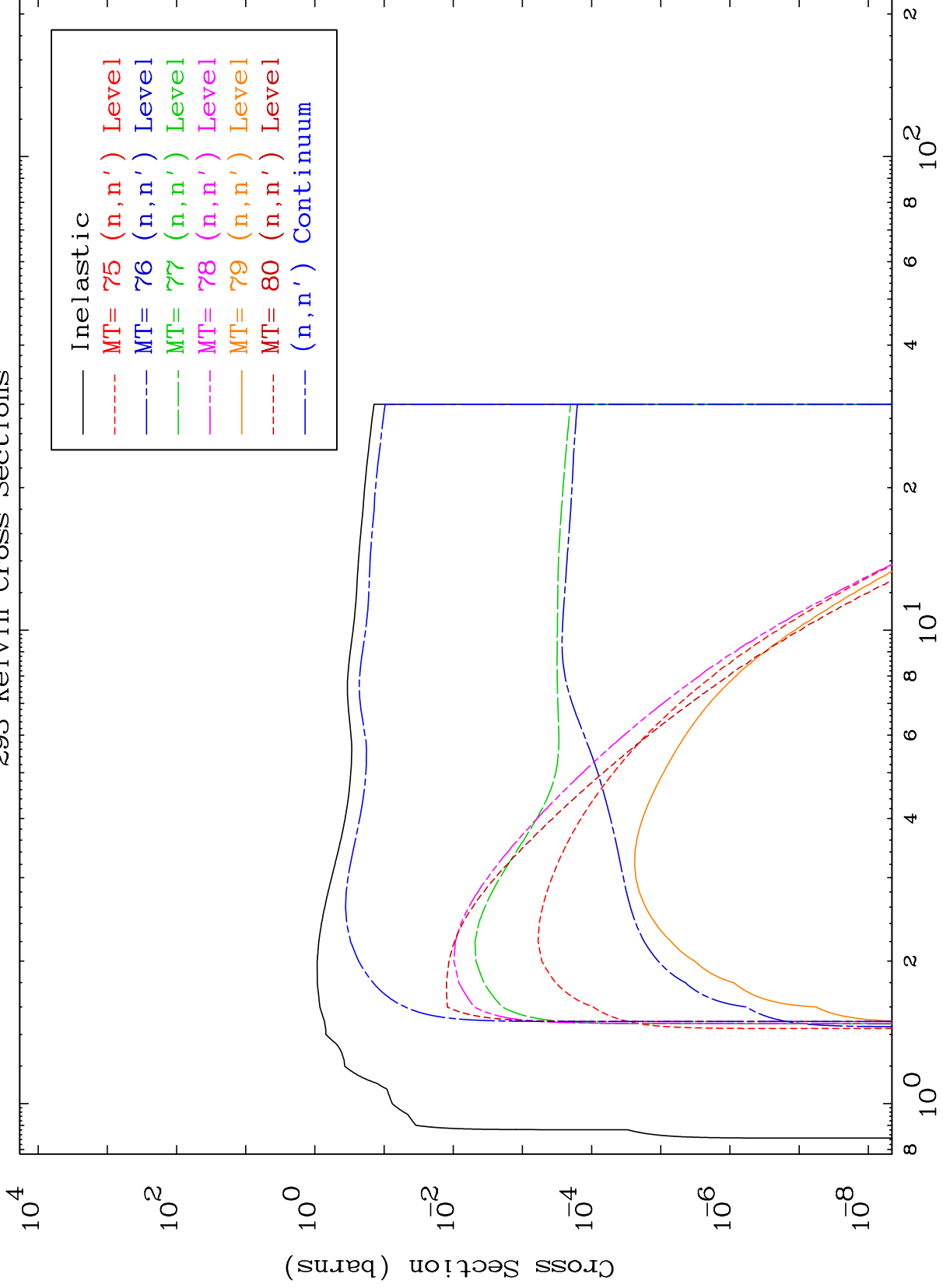
Incident Energy (MeV)

MAT 6974

(n,n') Levels

70-Yb-151

293 Kelvin Cross Sections



11

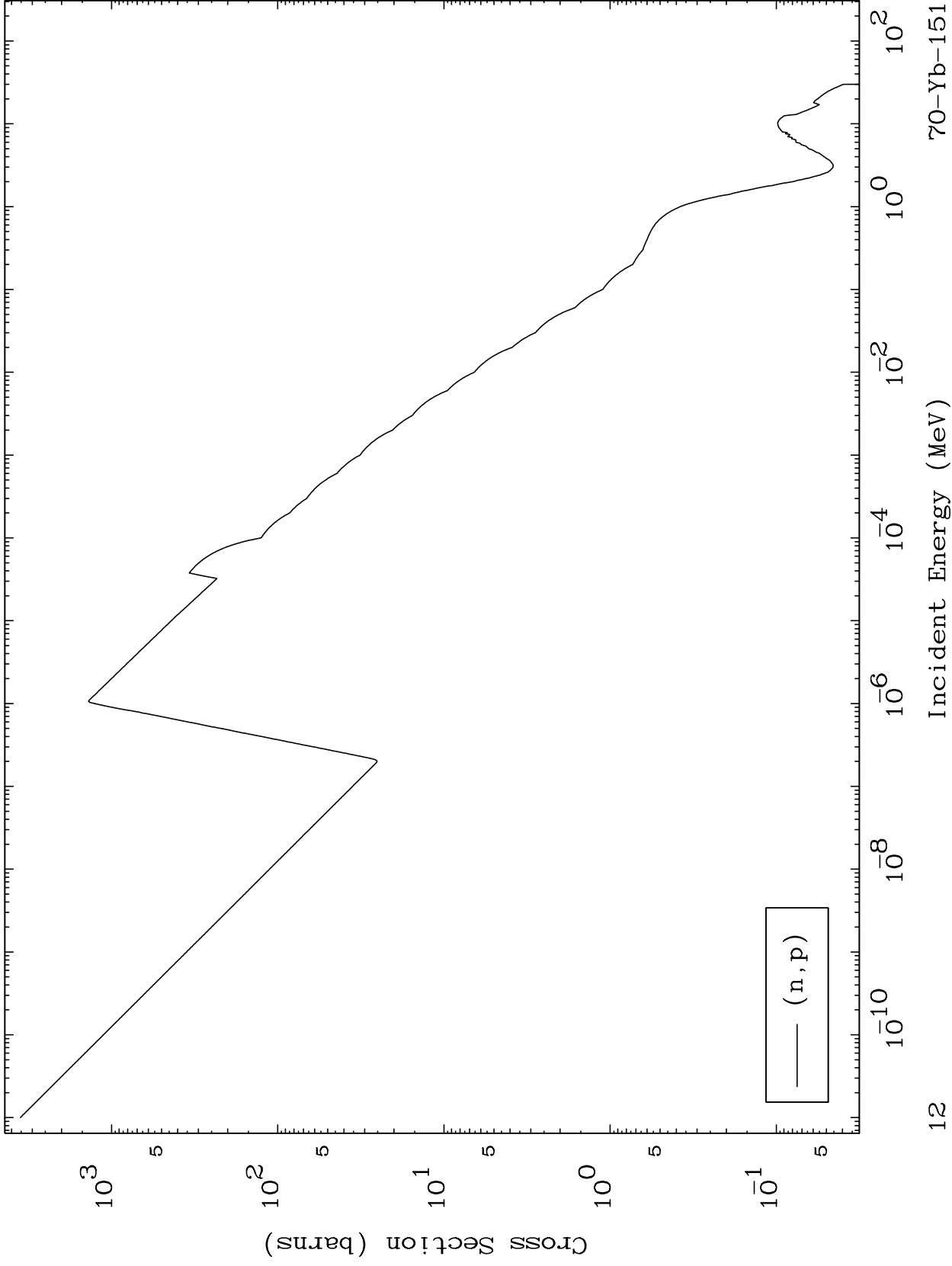
Incident Energy (MeV)

70-Yb-151

MAT 6974

(n,p) Levels  
293 Kelvin Cross Sections

70-Yb-151

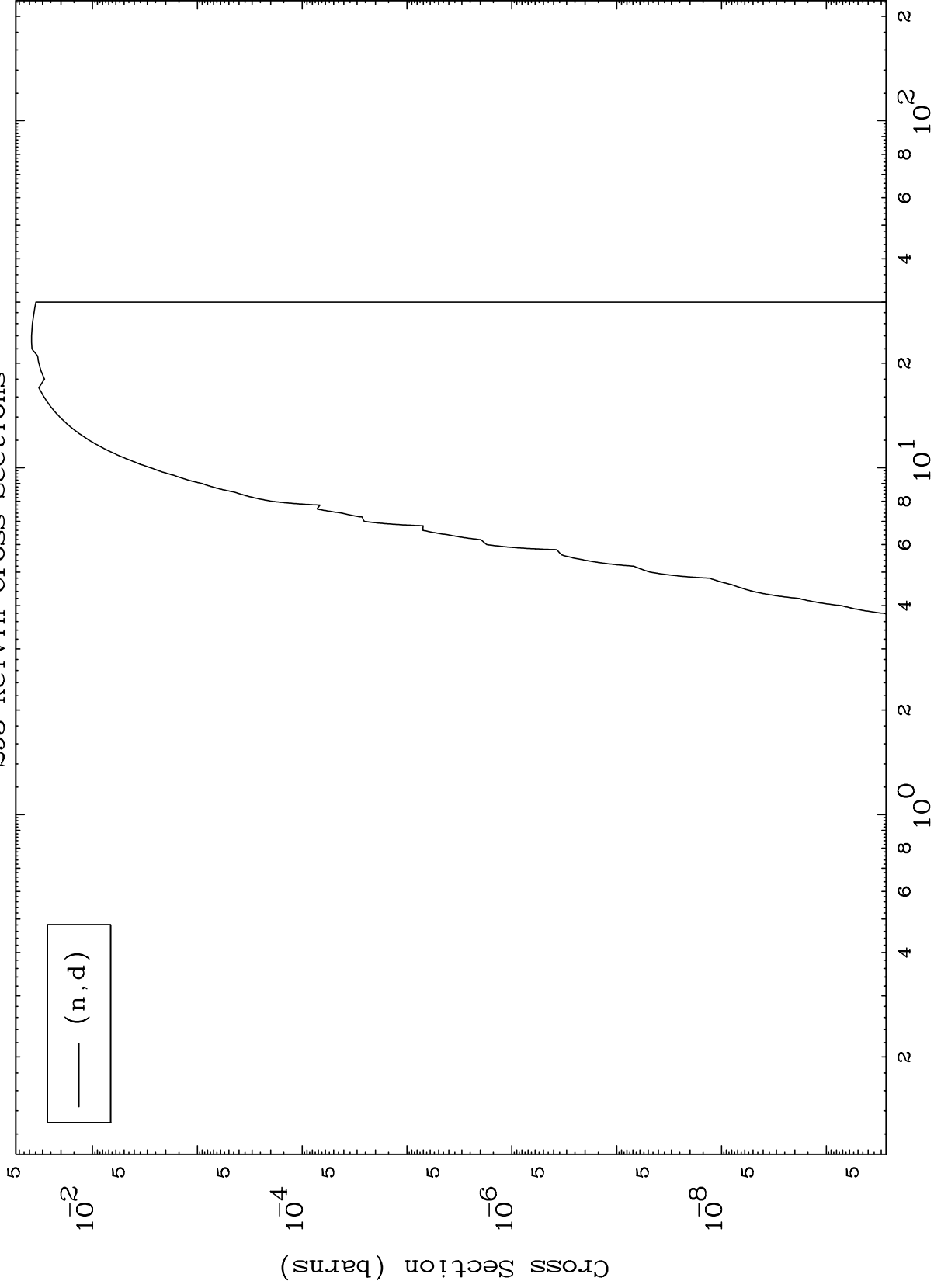


MAT 6974

(n,d) Levels

70-Yb-151

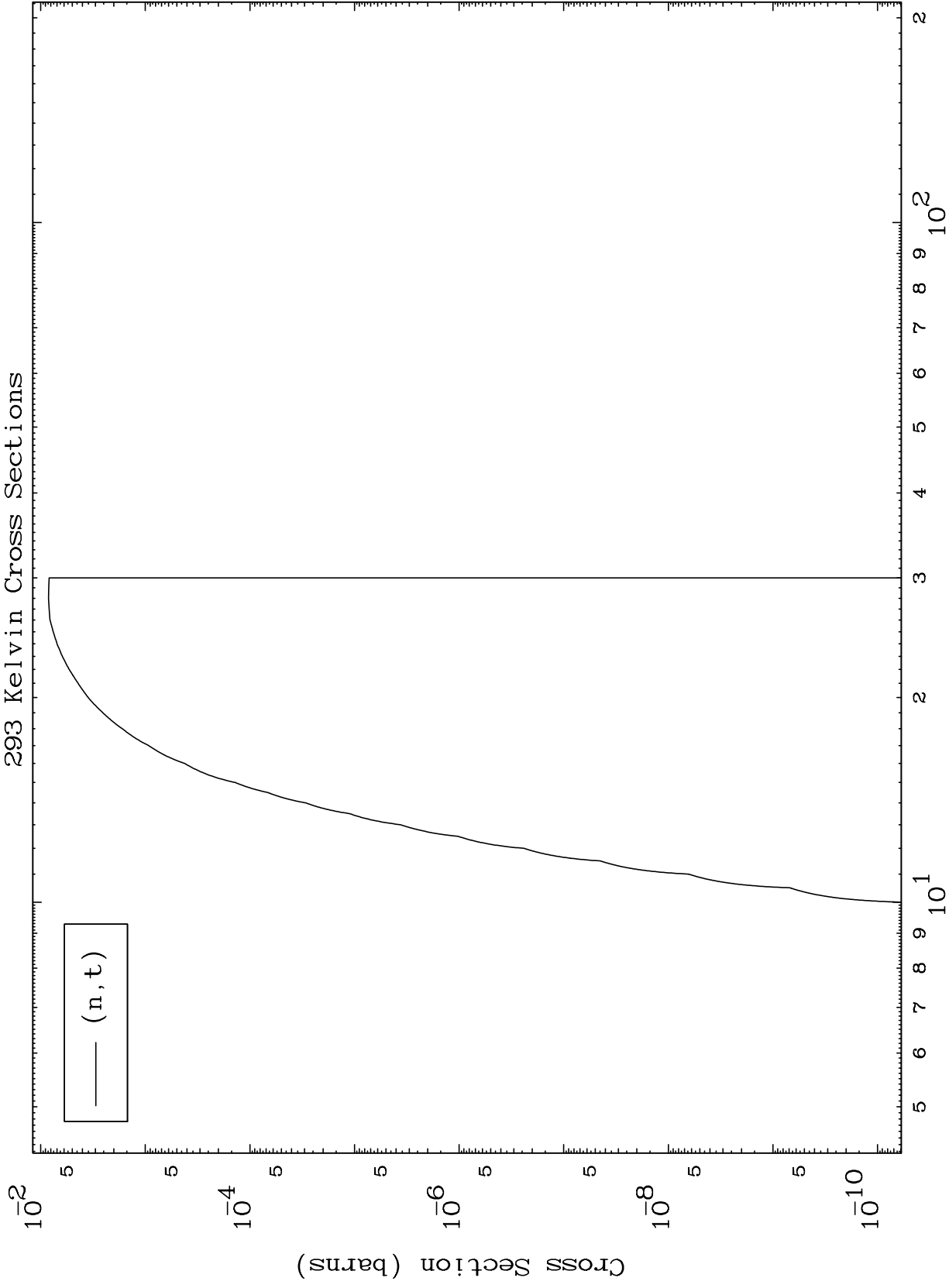
293 Kelvin Cross Sections



MAT 6974

(n,t) Levels  
293 Kelvin Cross Sections

70-Yb-151



14

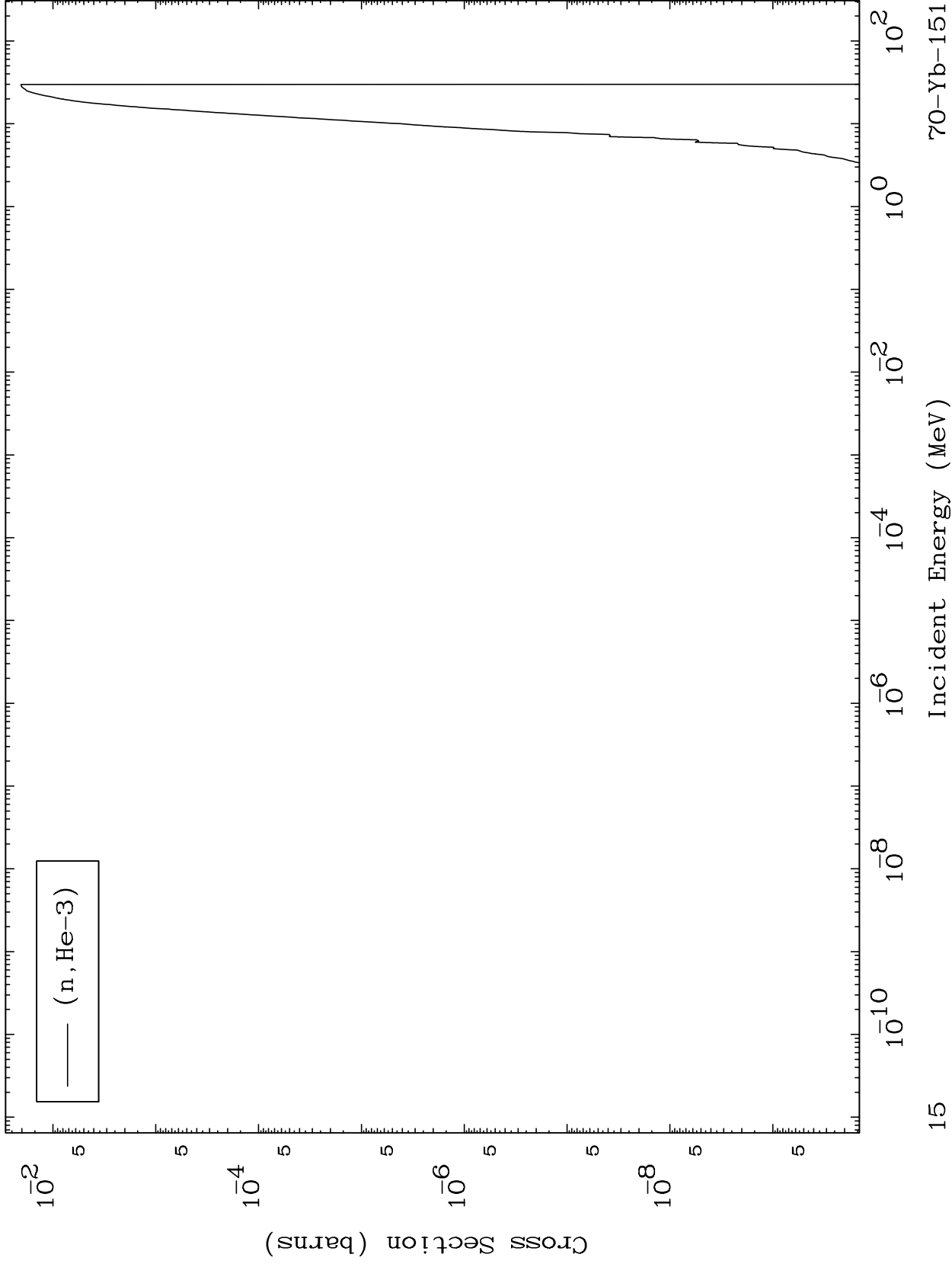
Incident Energy (MeV)

70-Yb-151

MAT 6974

(n,He3) Levels  
293 Kelvin Cross Sections

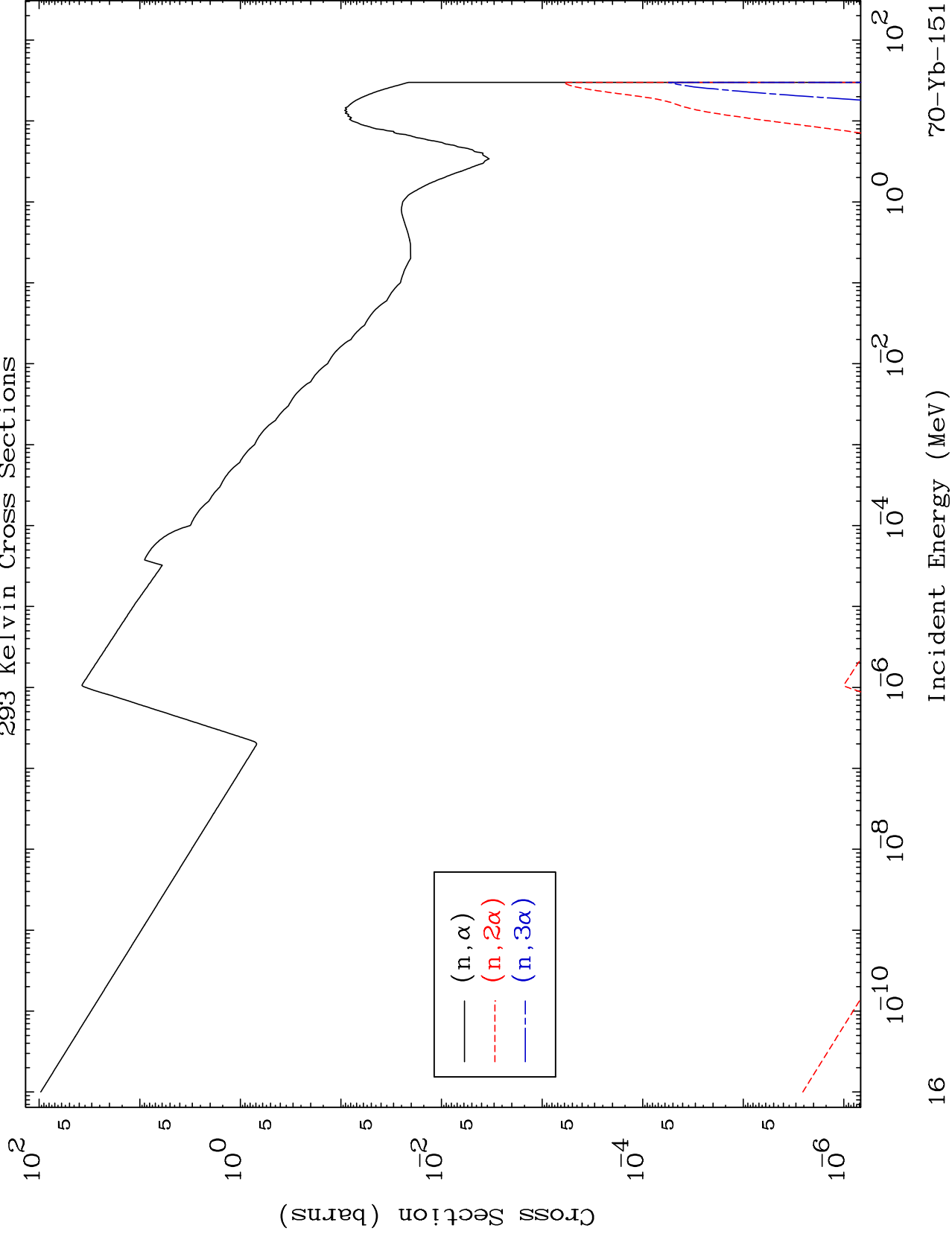
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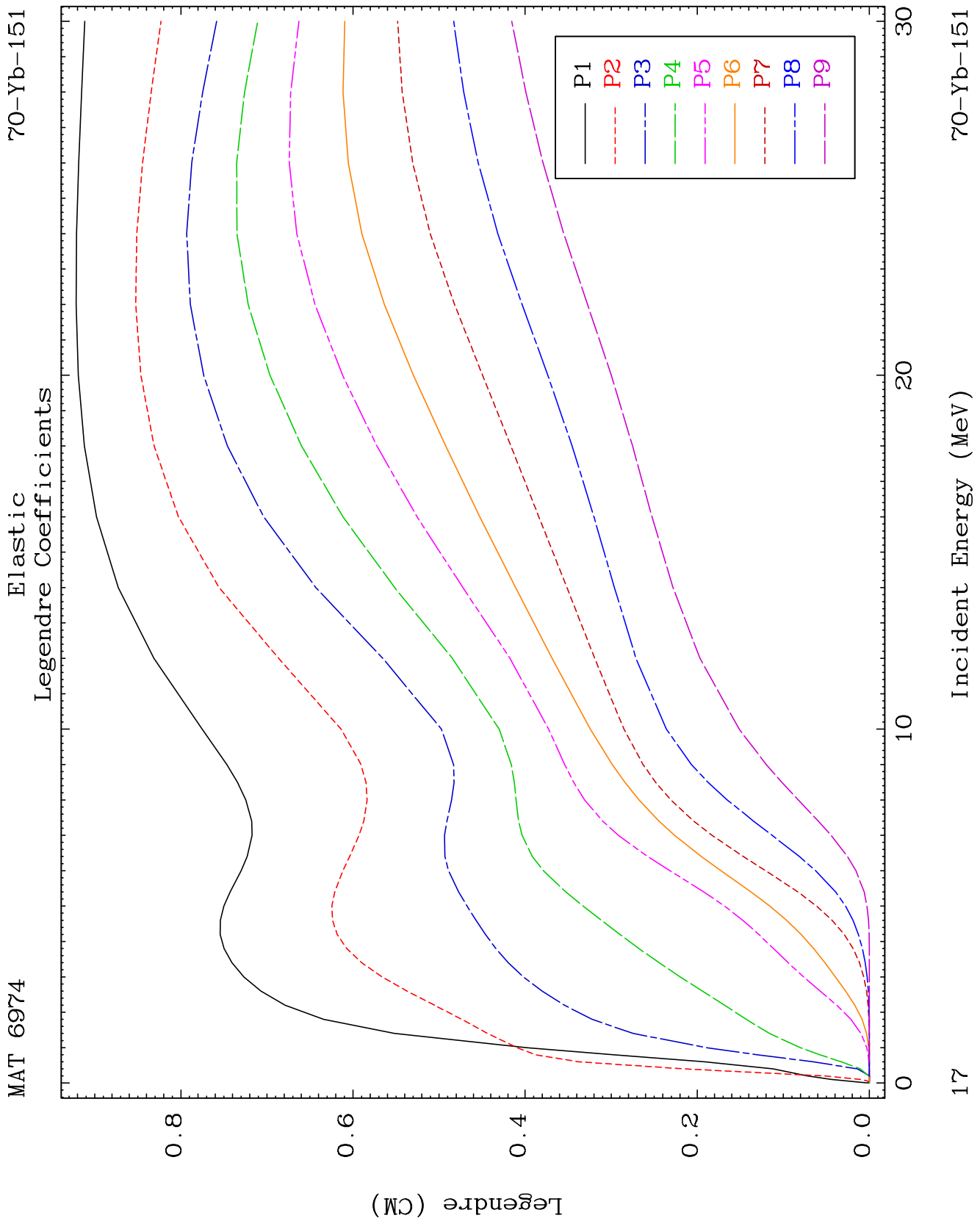


MAT 6974

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

70-Yb-151





70-Yb-151

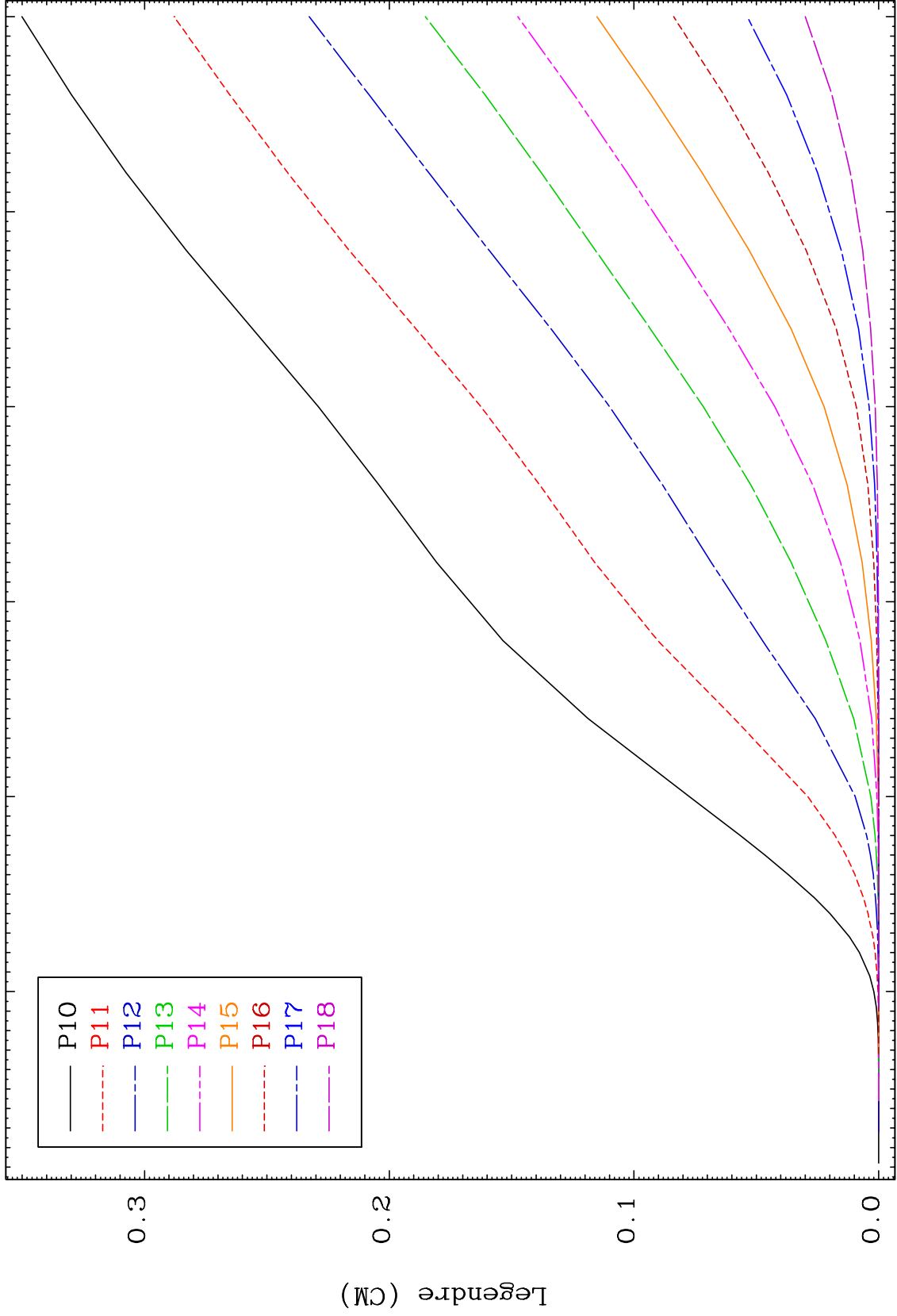
Incident Energy (MeV)

17

MAT 6974

Elastic Legendre Coefficients

70-Yb-151



18

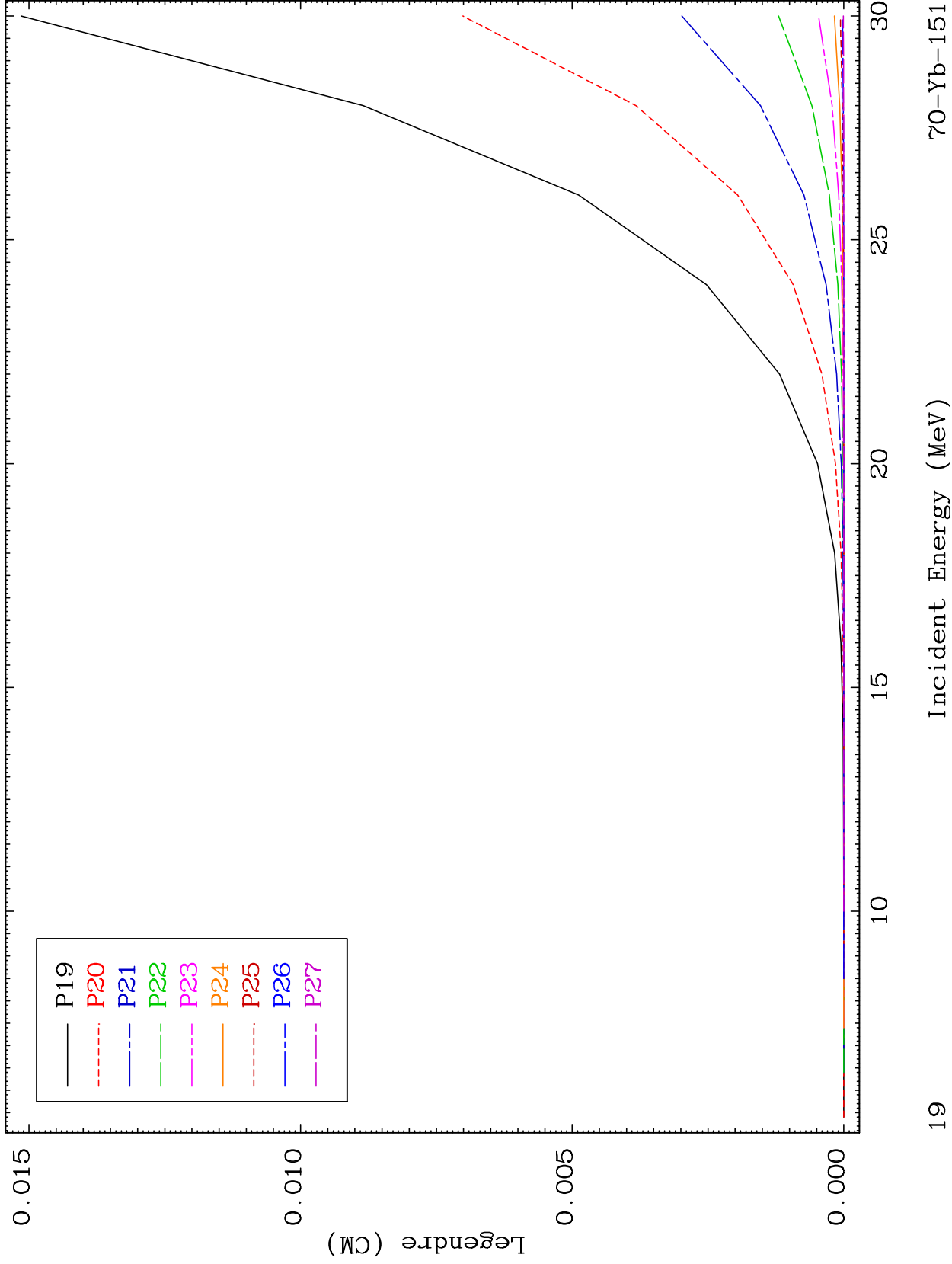
Incident Energy (MeV)

70-Yb-151

MAT 6974

Elastic  
Legendre Coefficients

70-Yb-151



19

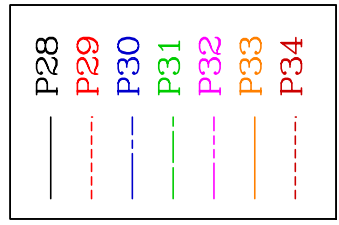
Incident Energy (MeV)

70-Yb-151

MAT 6974

Elastic Legendre Coefficients

70-Yb-151



$\times 10^{-6}$

2.0

1.5

1.0

0.5

0.0

Legendre (CM)

15

20

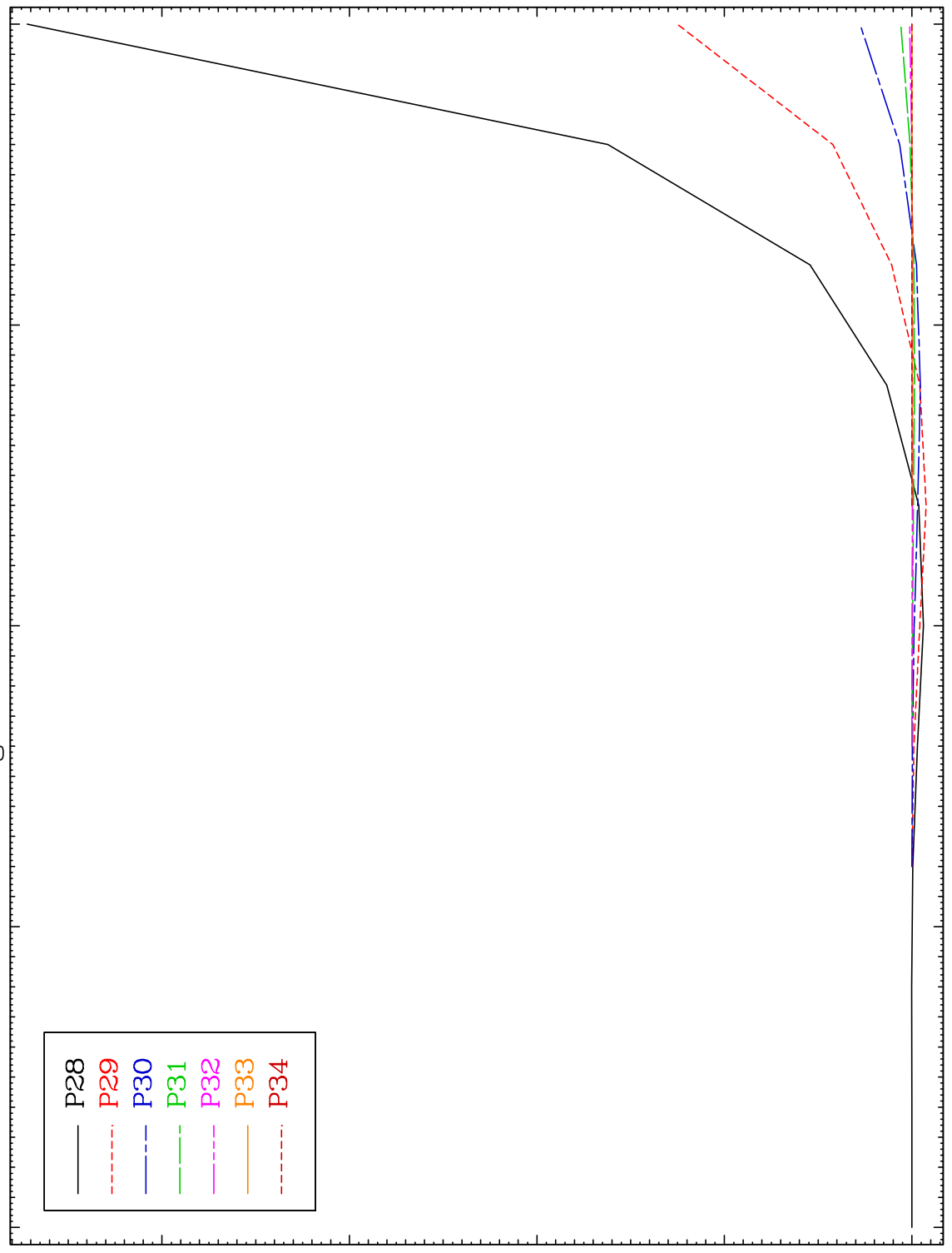
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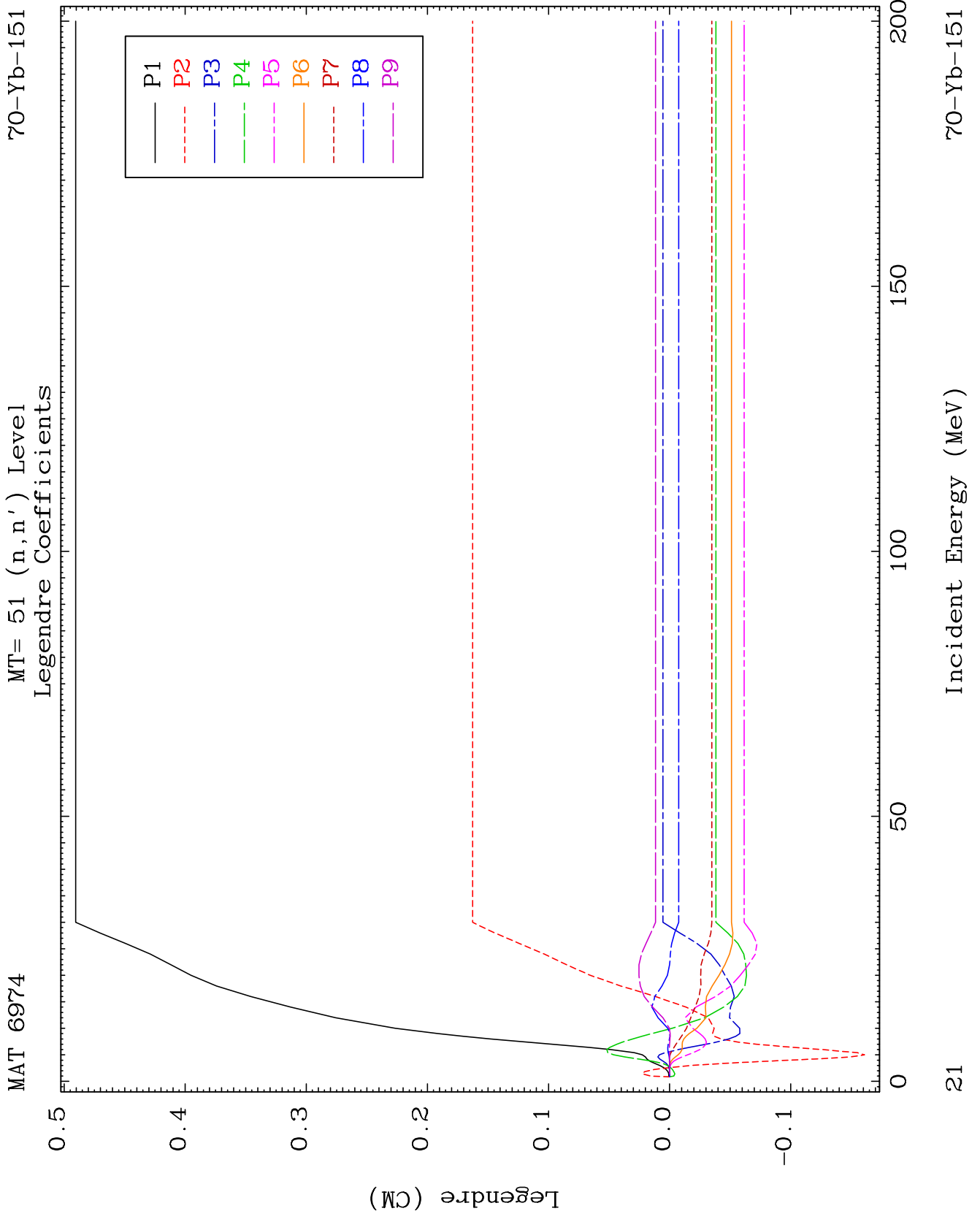
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20

Incident Energy (MeV)

70-Yb-151

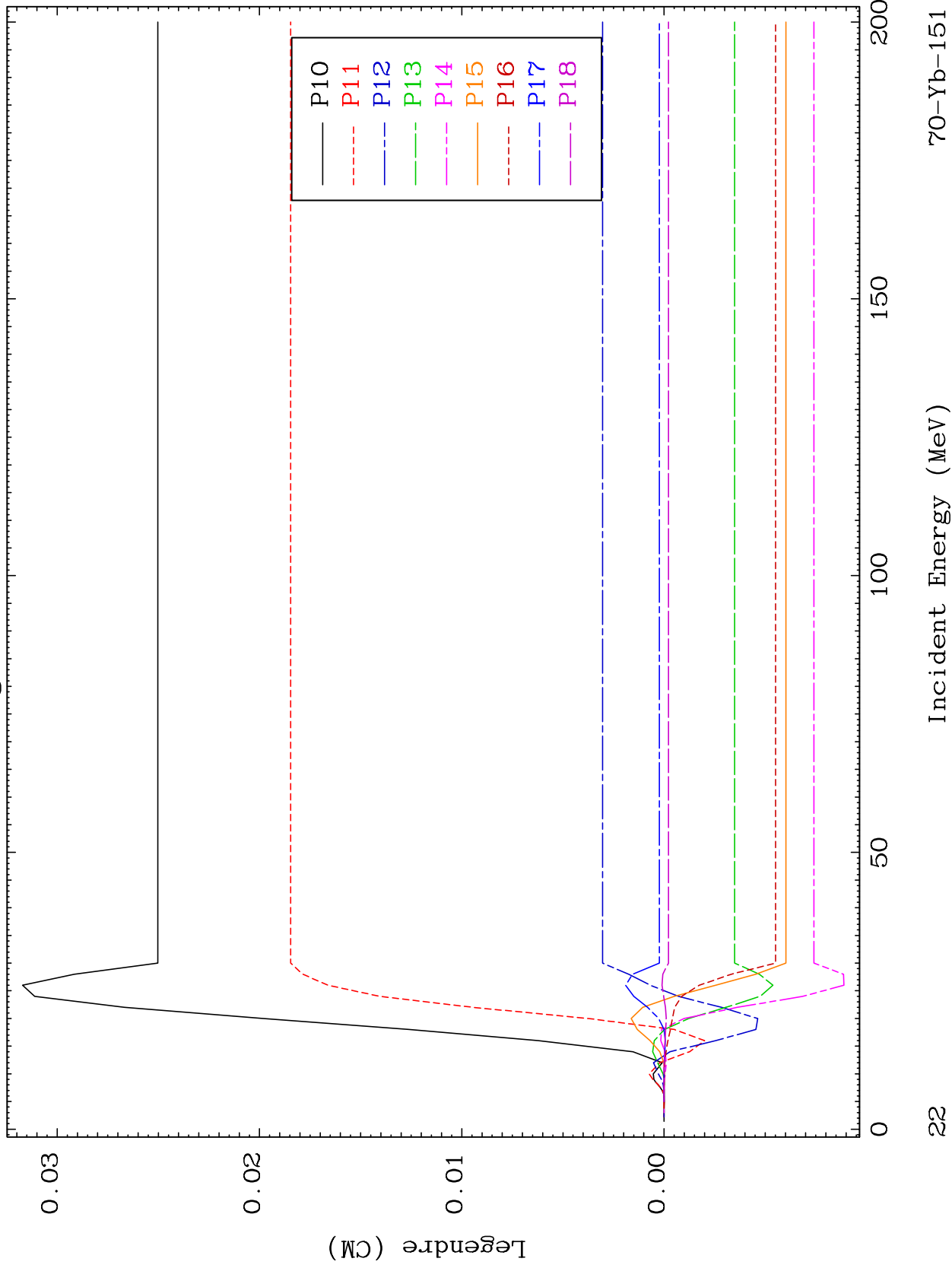




MAT 6974

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

70-Yb-151



22

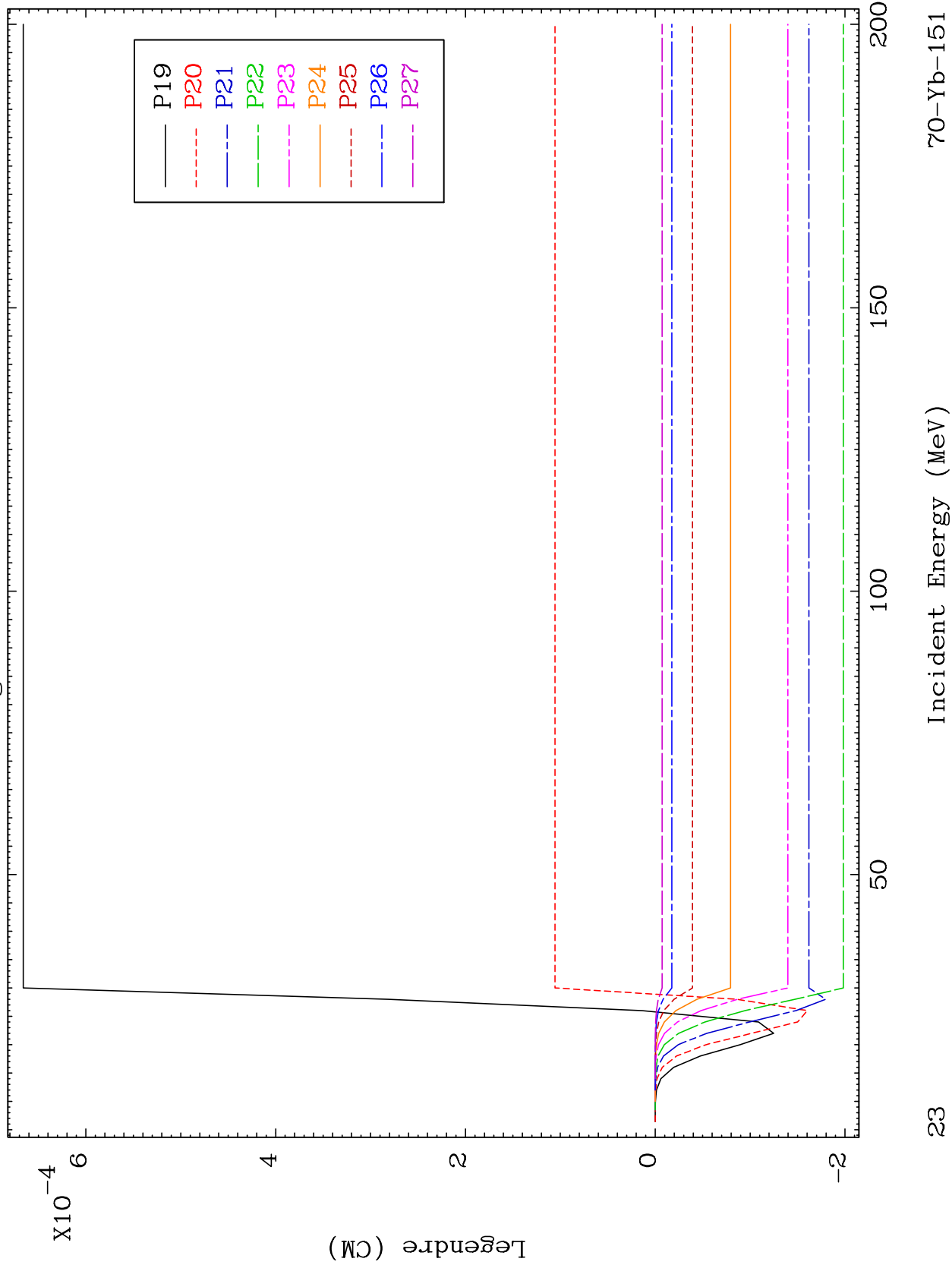
Incident Energy (MeV)

70-Yb-151

MAT 6974

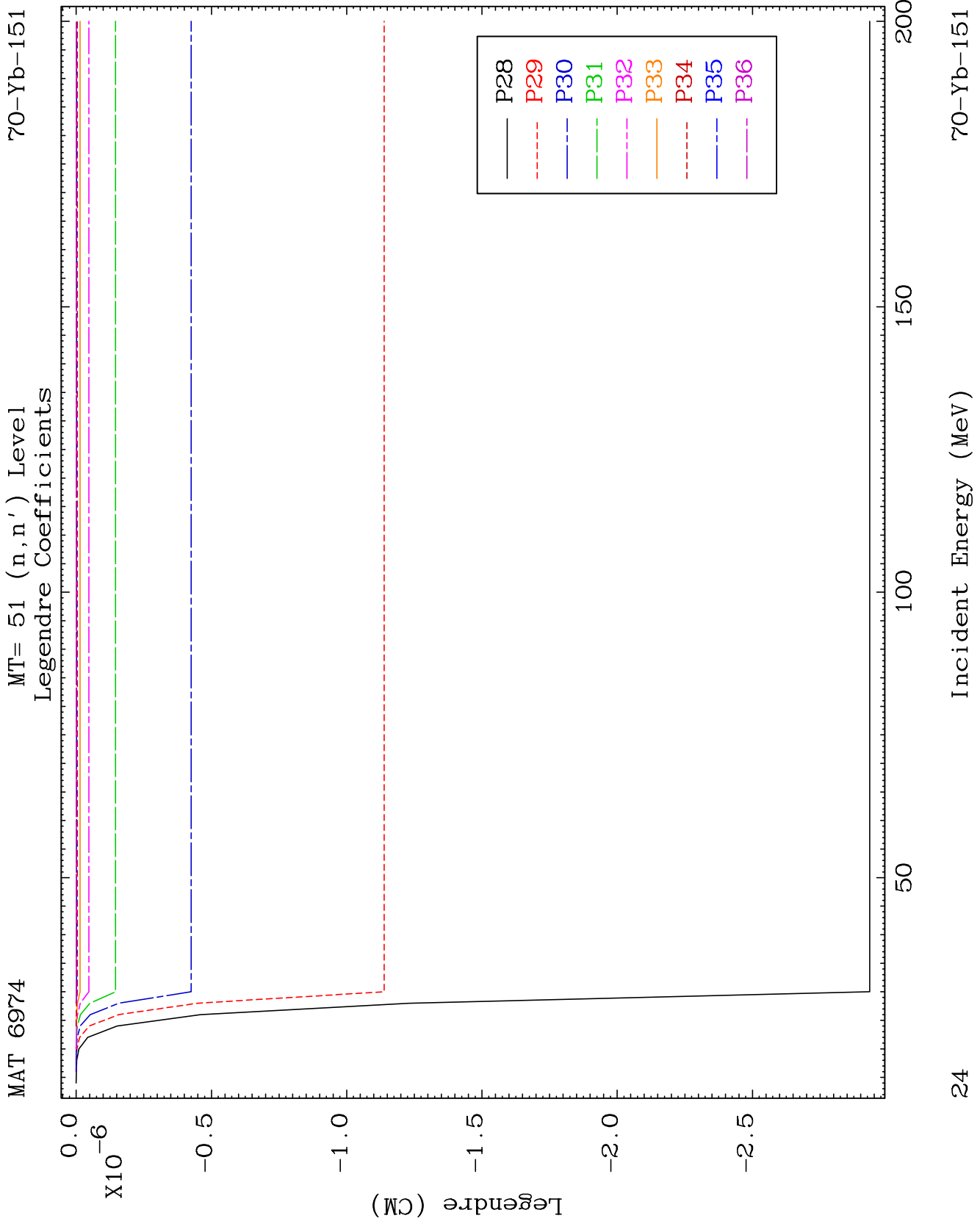
MT= 51 (n,n') Level  
Legendre Coefficients

70-Yb-151



23

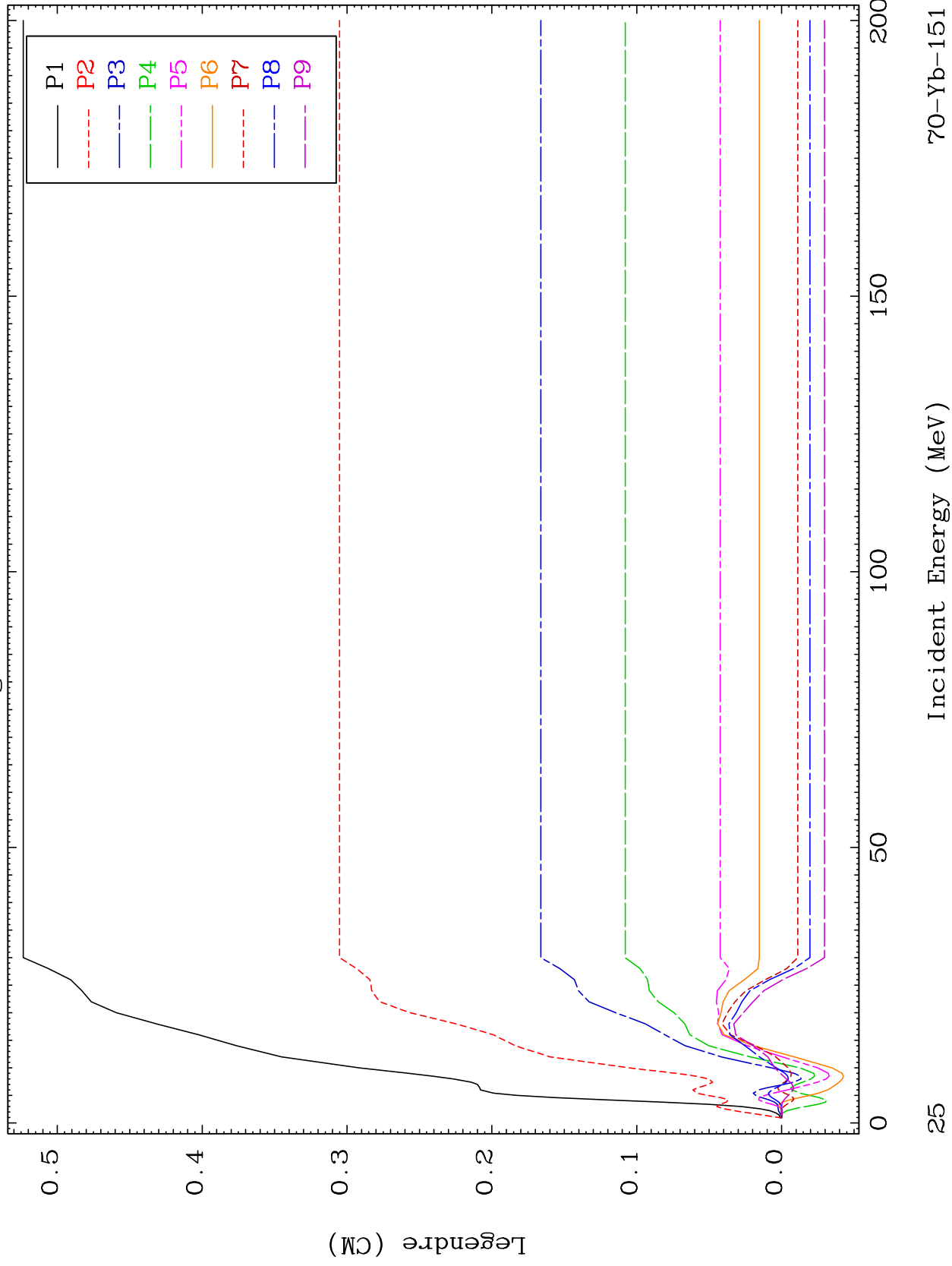
70-Yb-151



MAT 6974

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

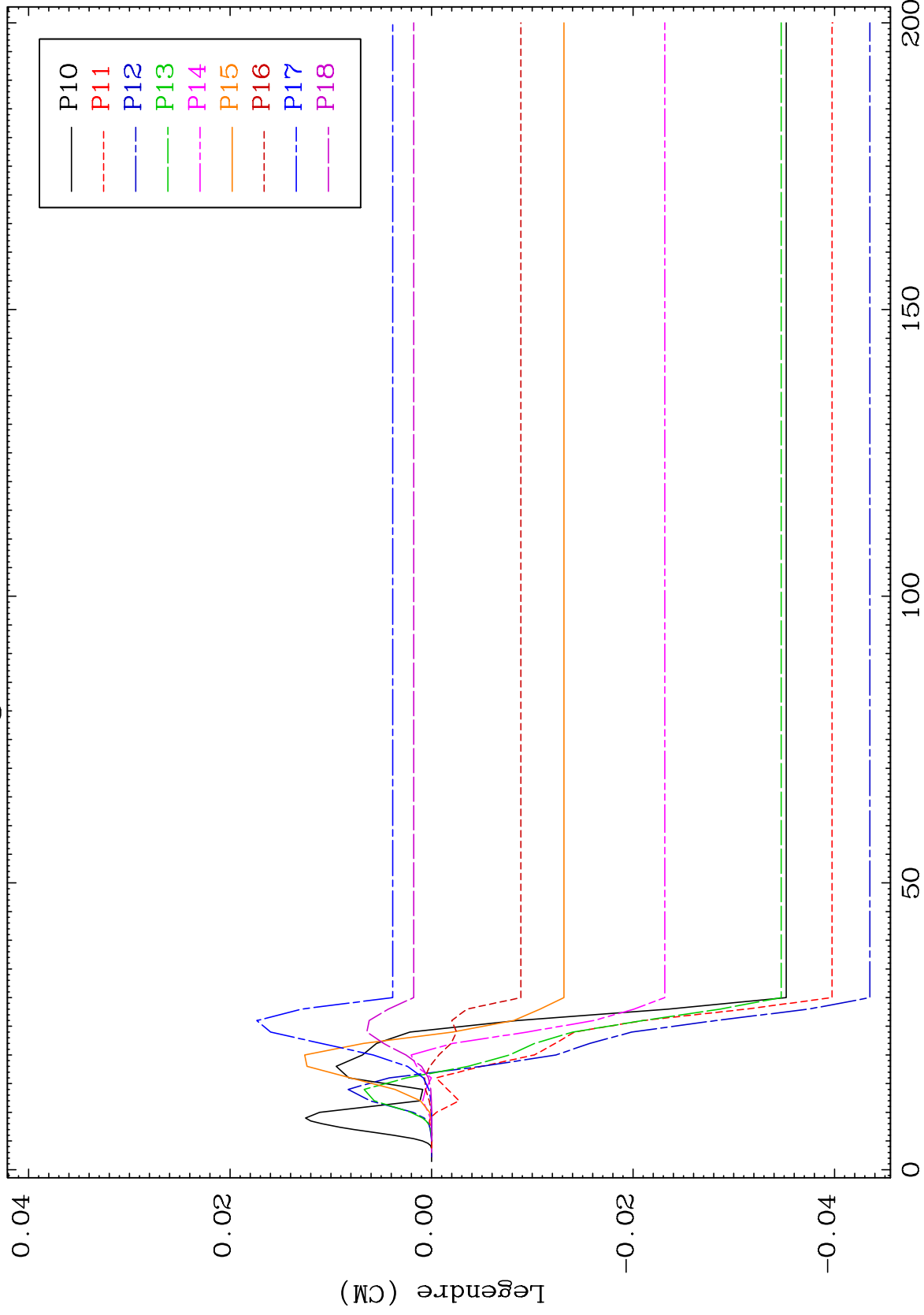
70-Yb-151



MAT 6974

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

70-Yb-151



26

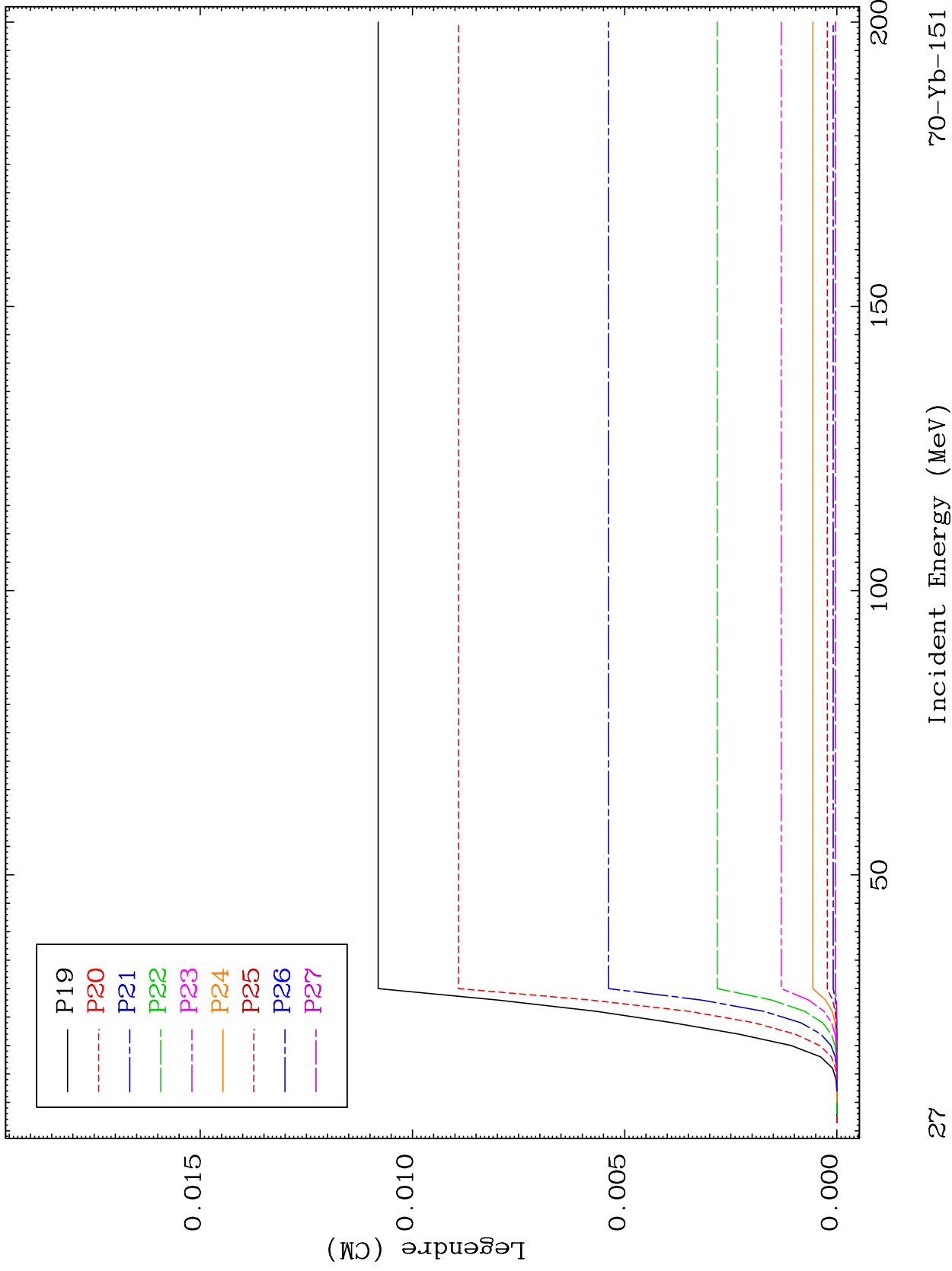
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



27

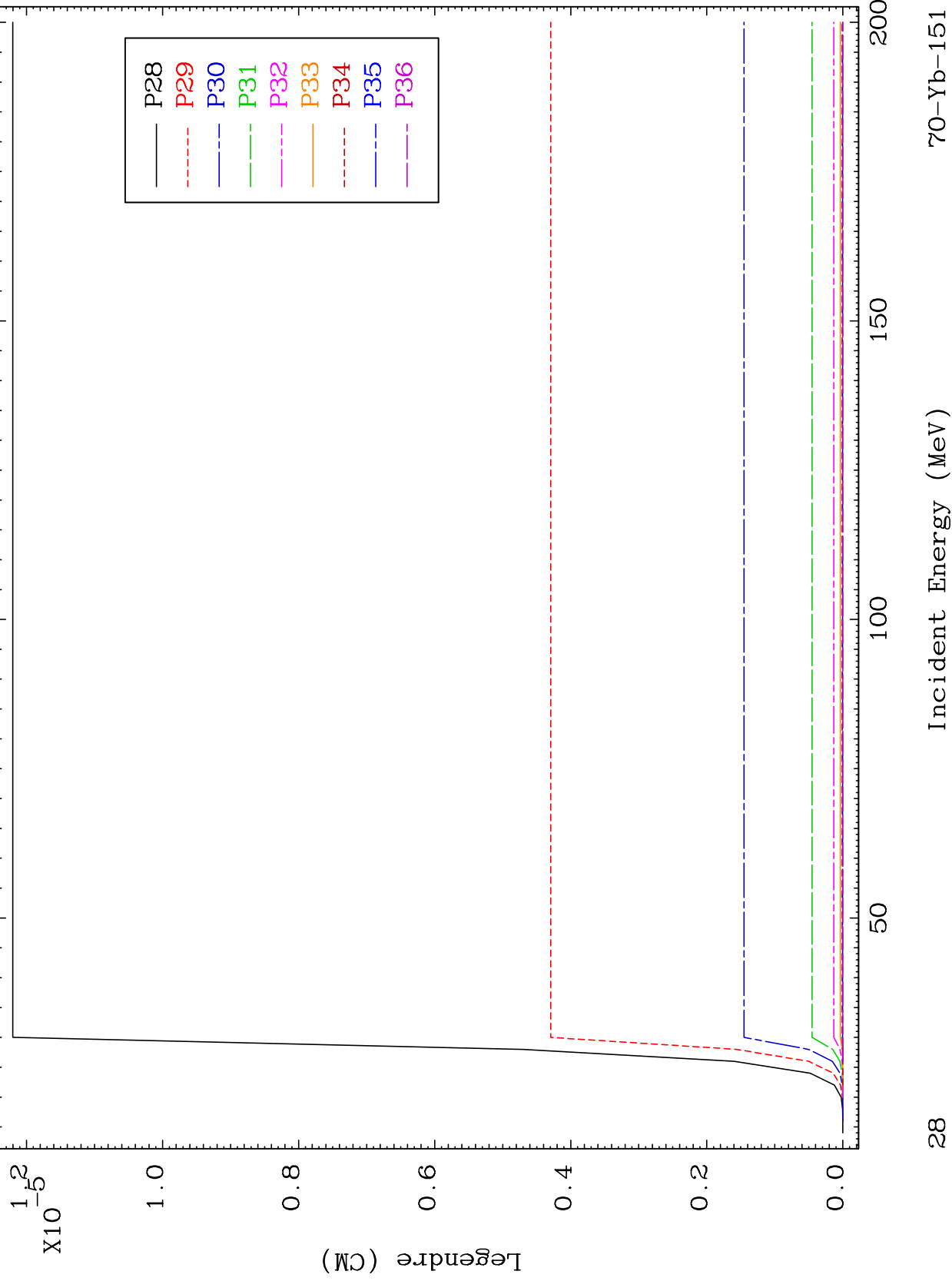
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



28

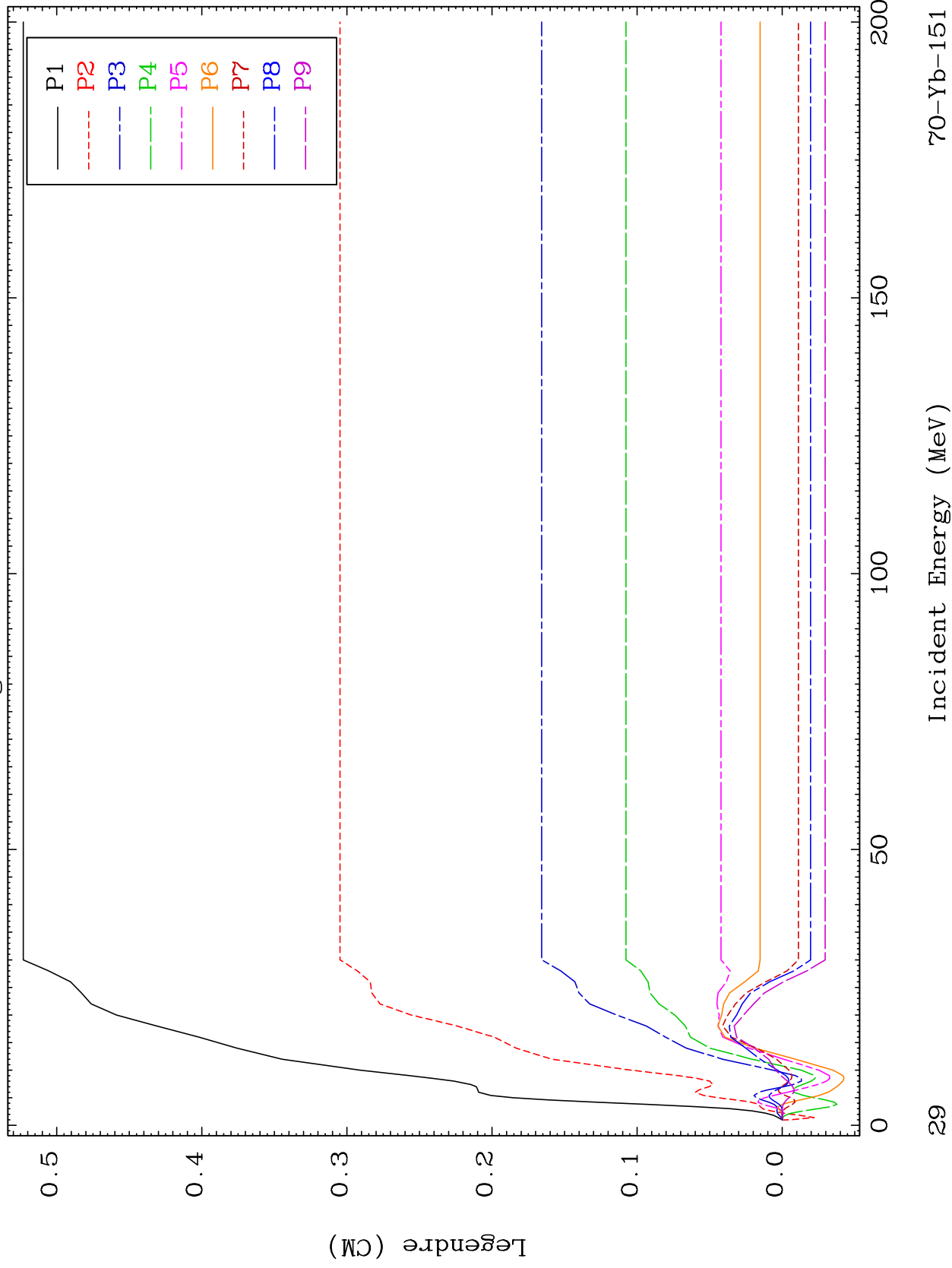
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



29

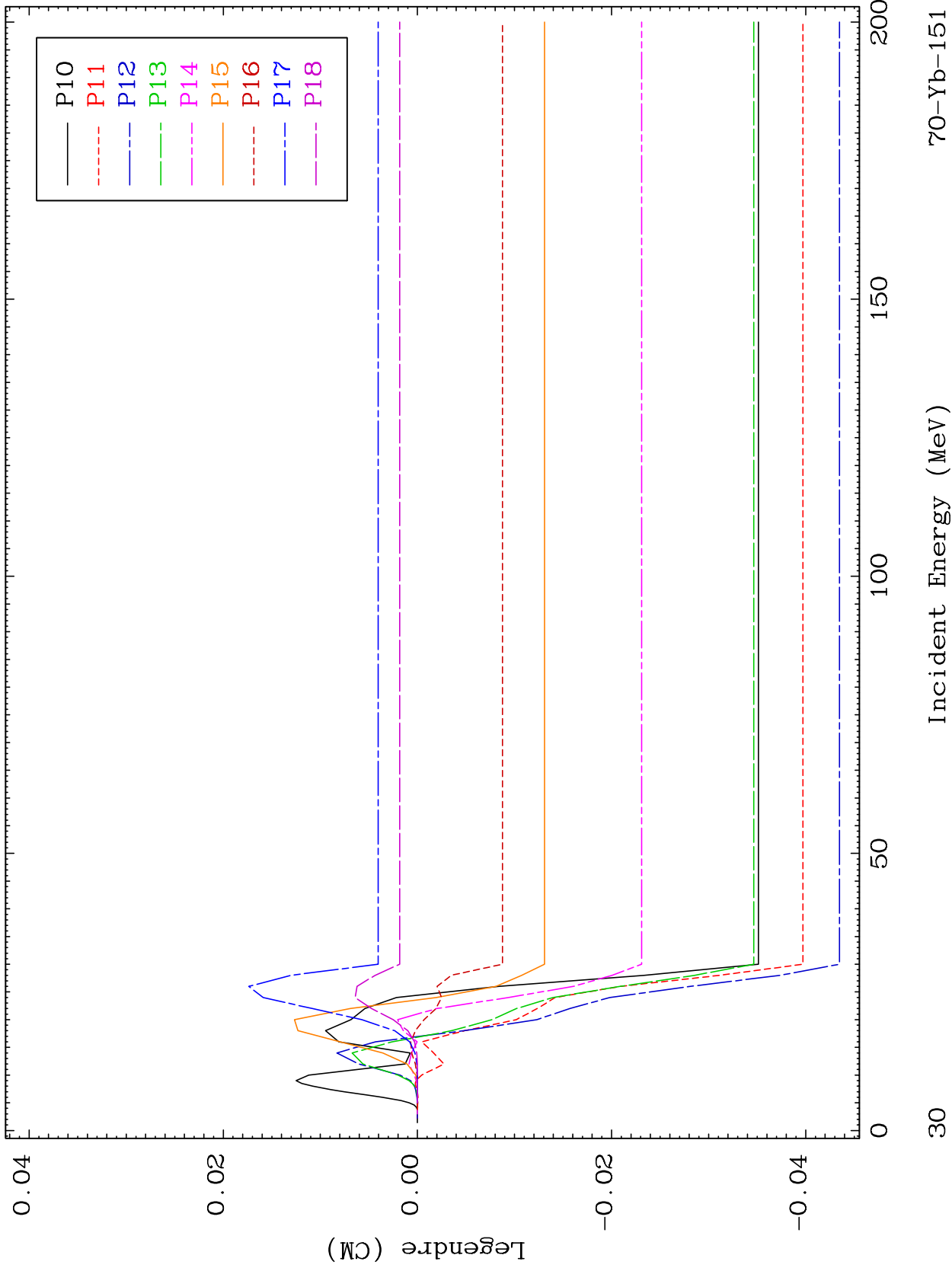
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

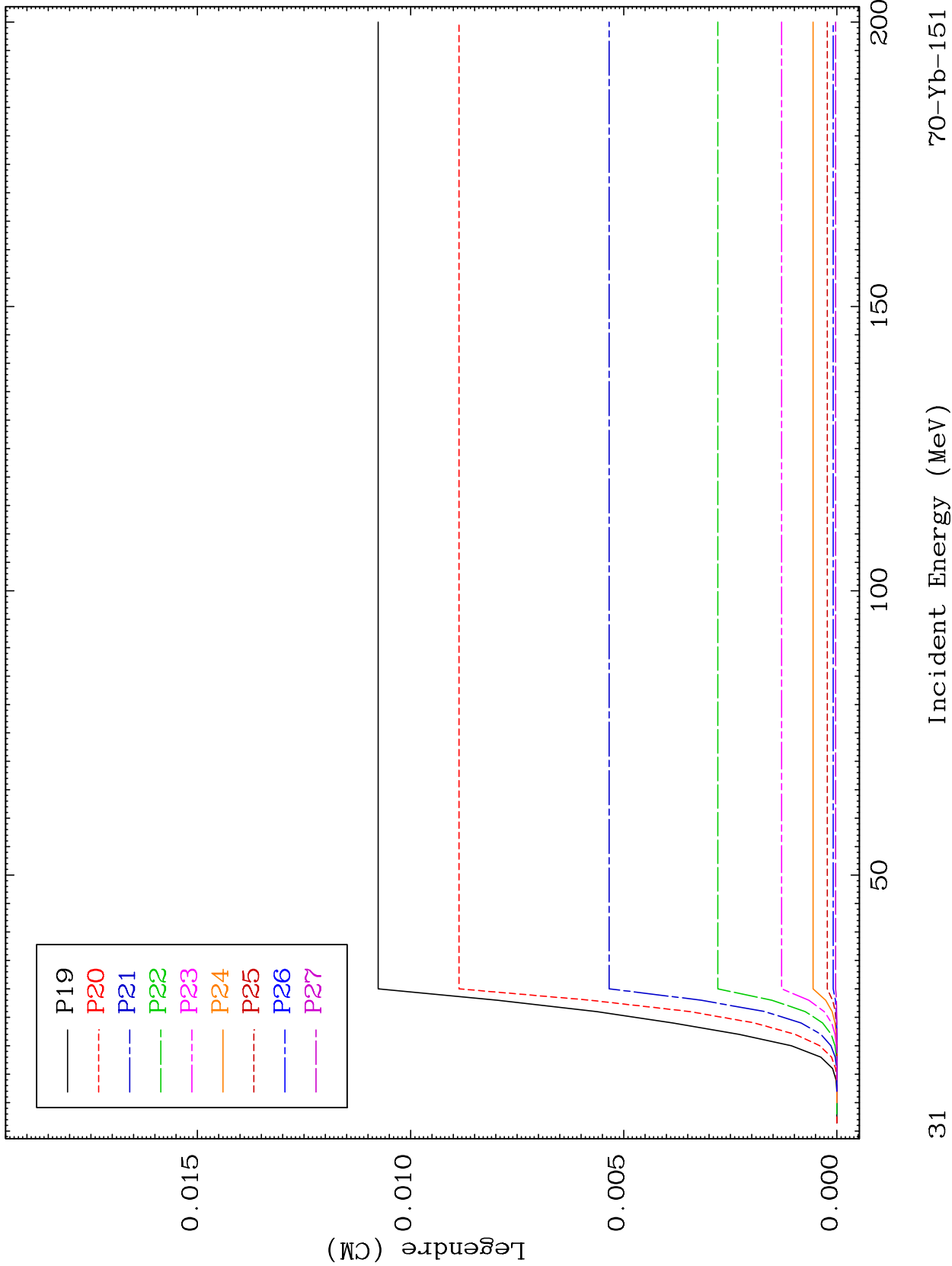
70-Yb-151



70-Yb-151

Incident Energy (MeV)

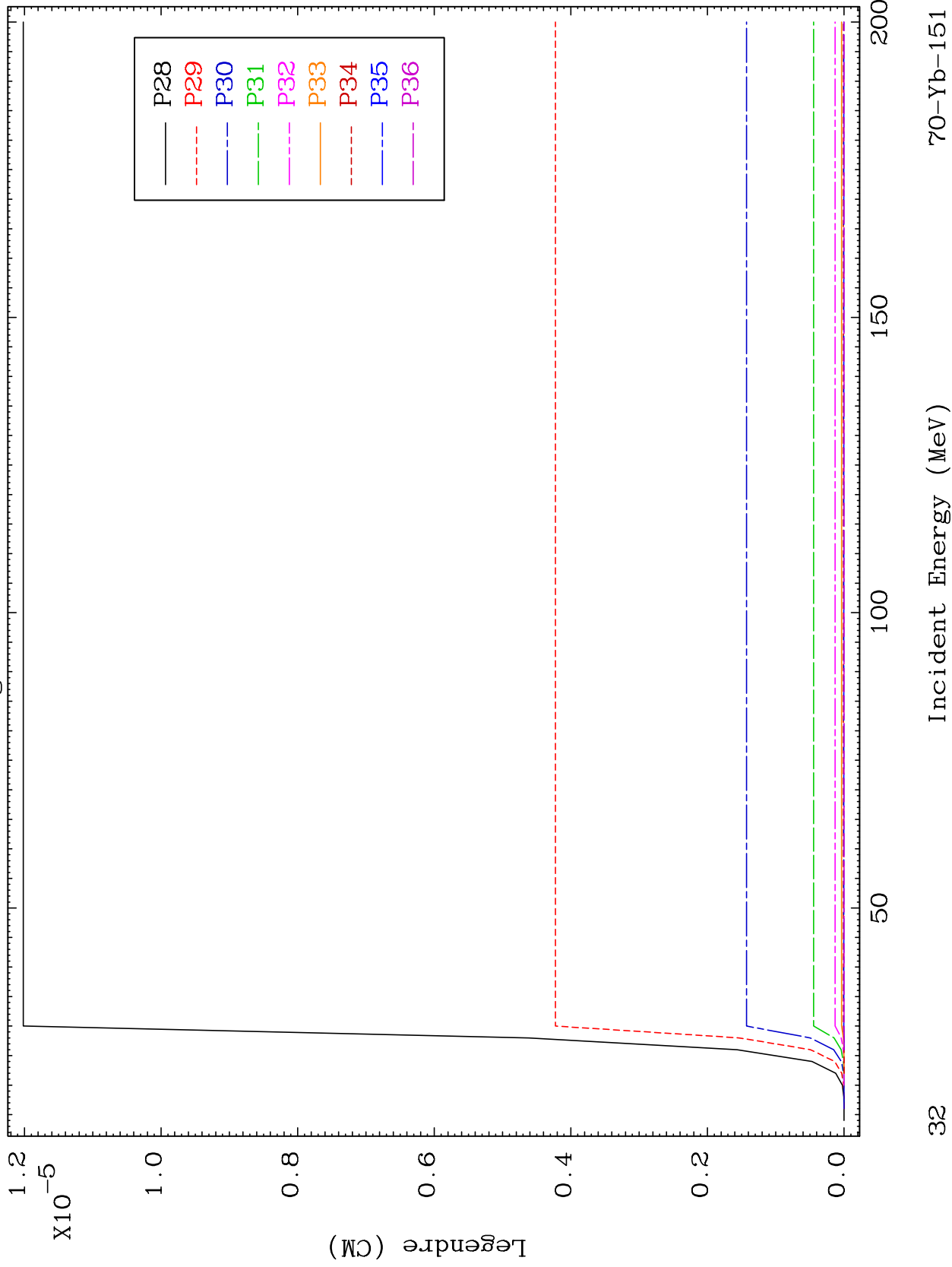
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MAT 6974

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

70-Yb-151

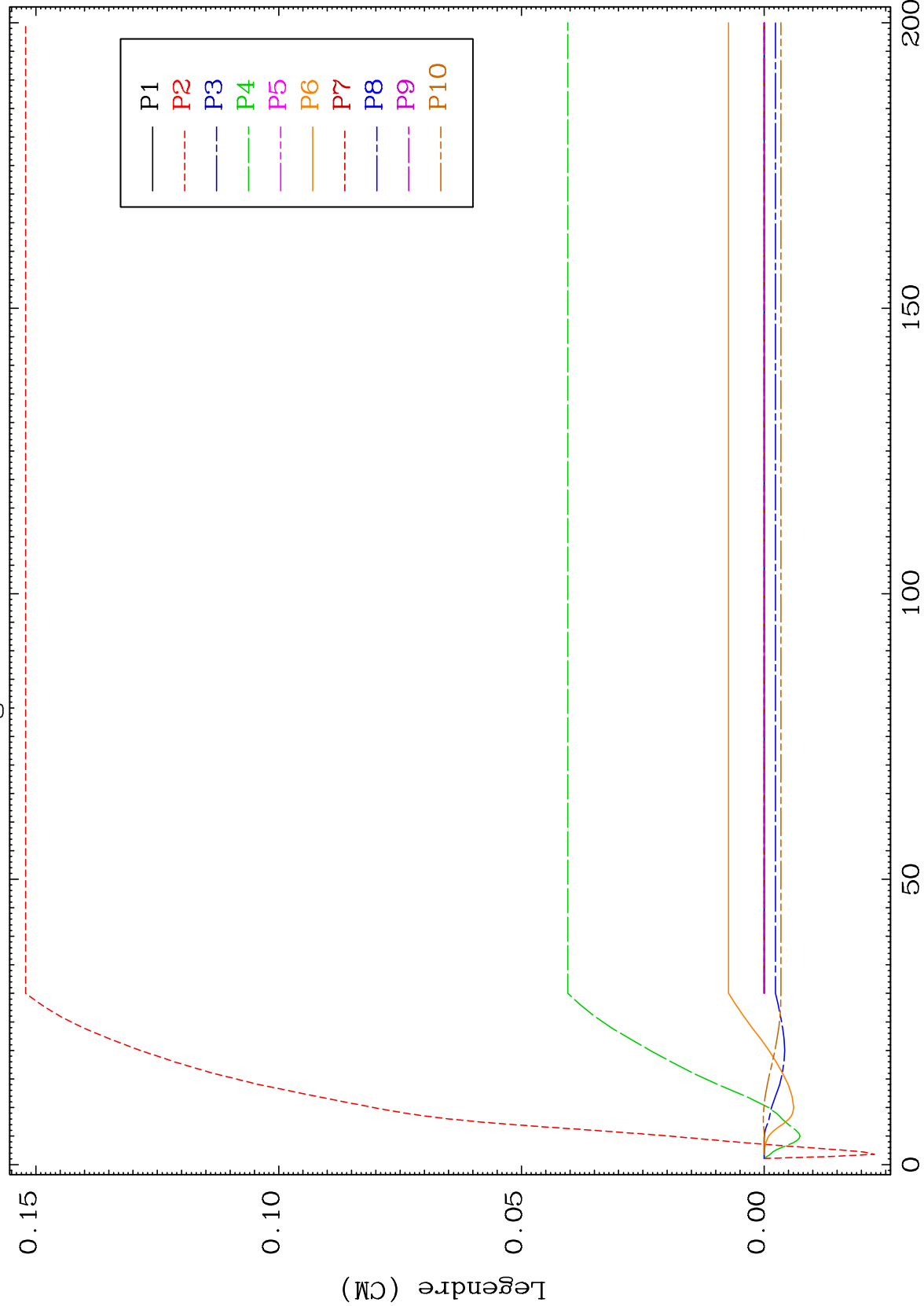


32

MAT 6974

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

70-Yb-151

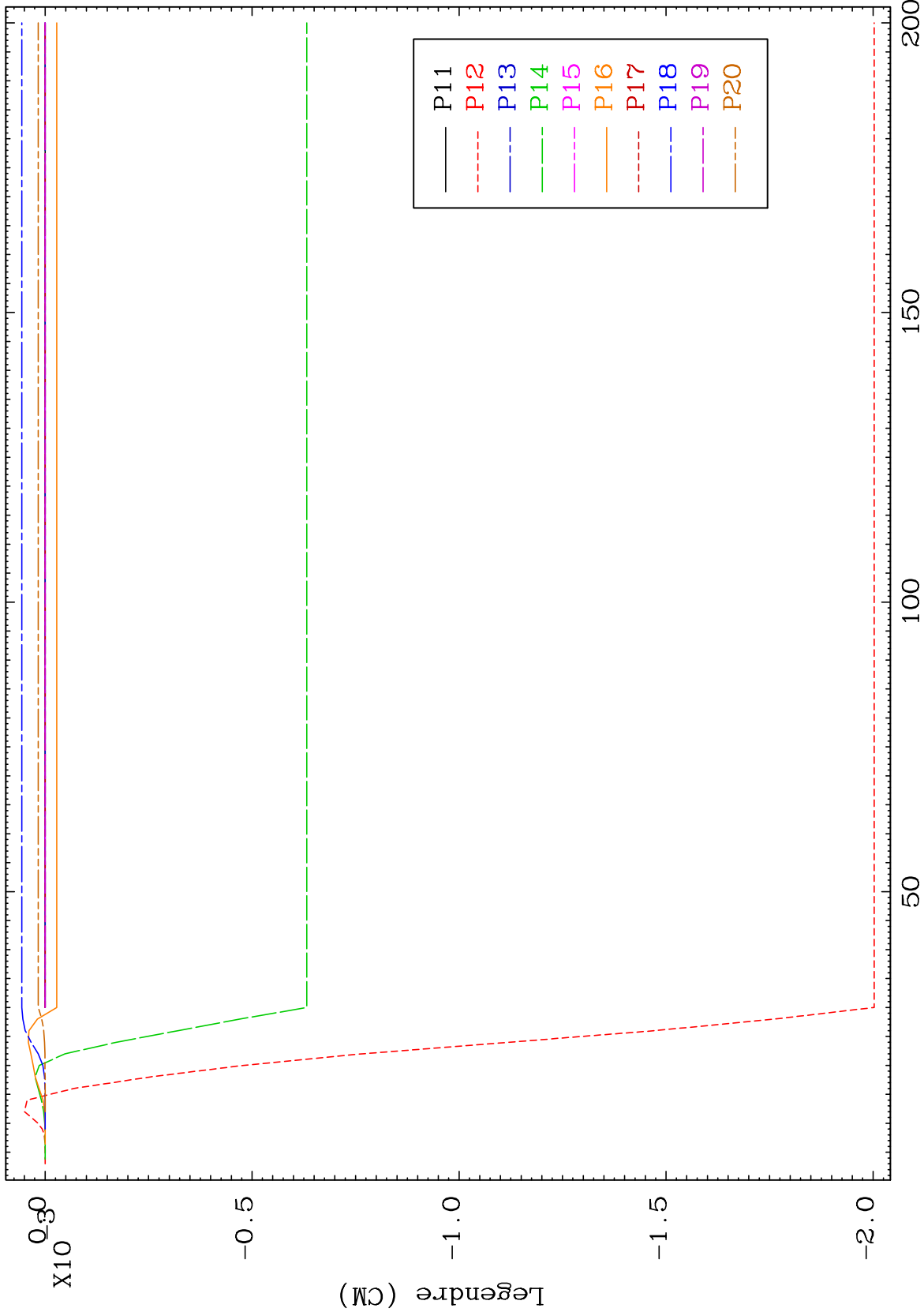


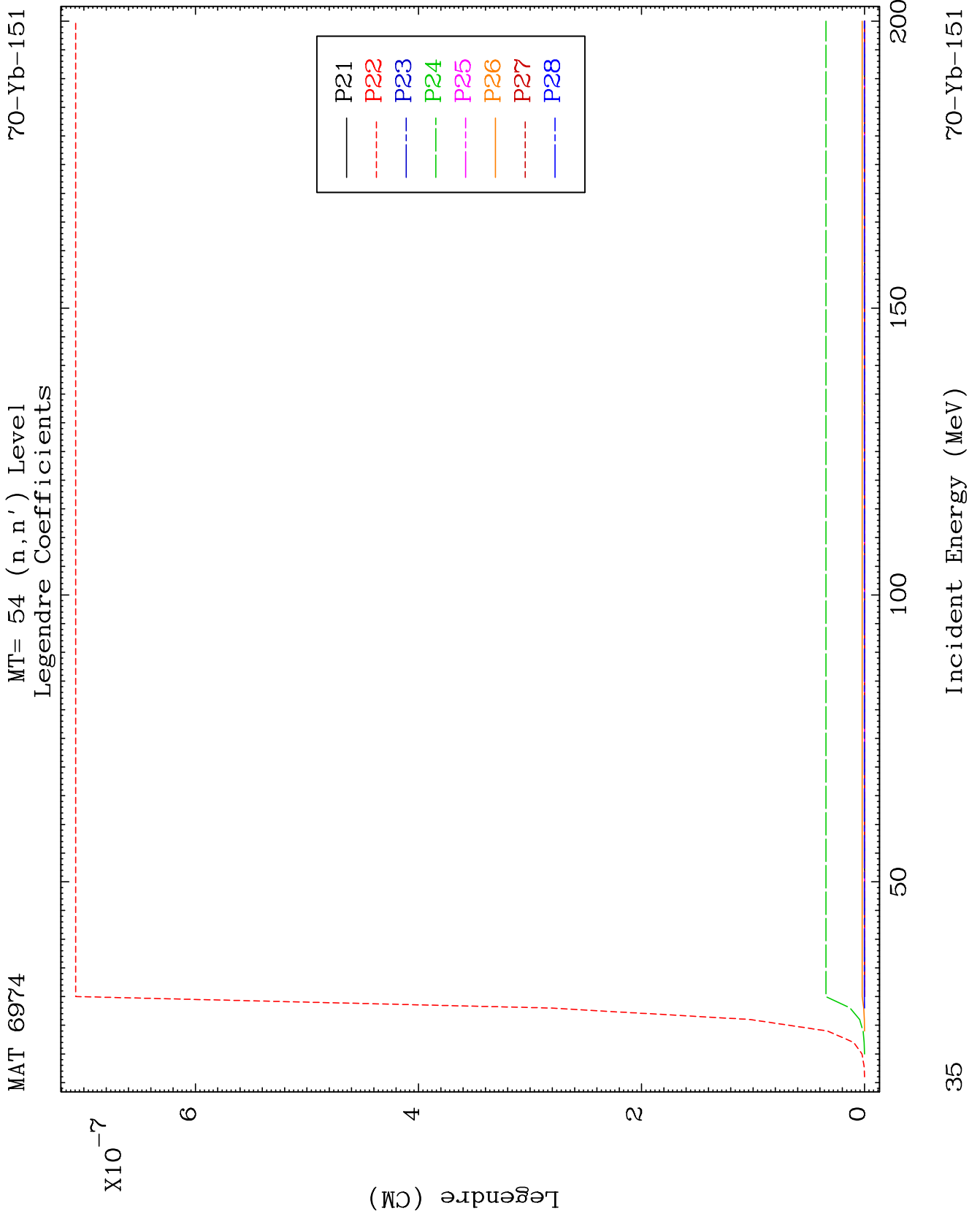
MAT 6974

MT= 54 (n,n') Level

70-Yb-151

Legendre Coefficients



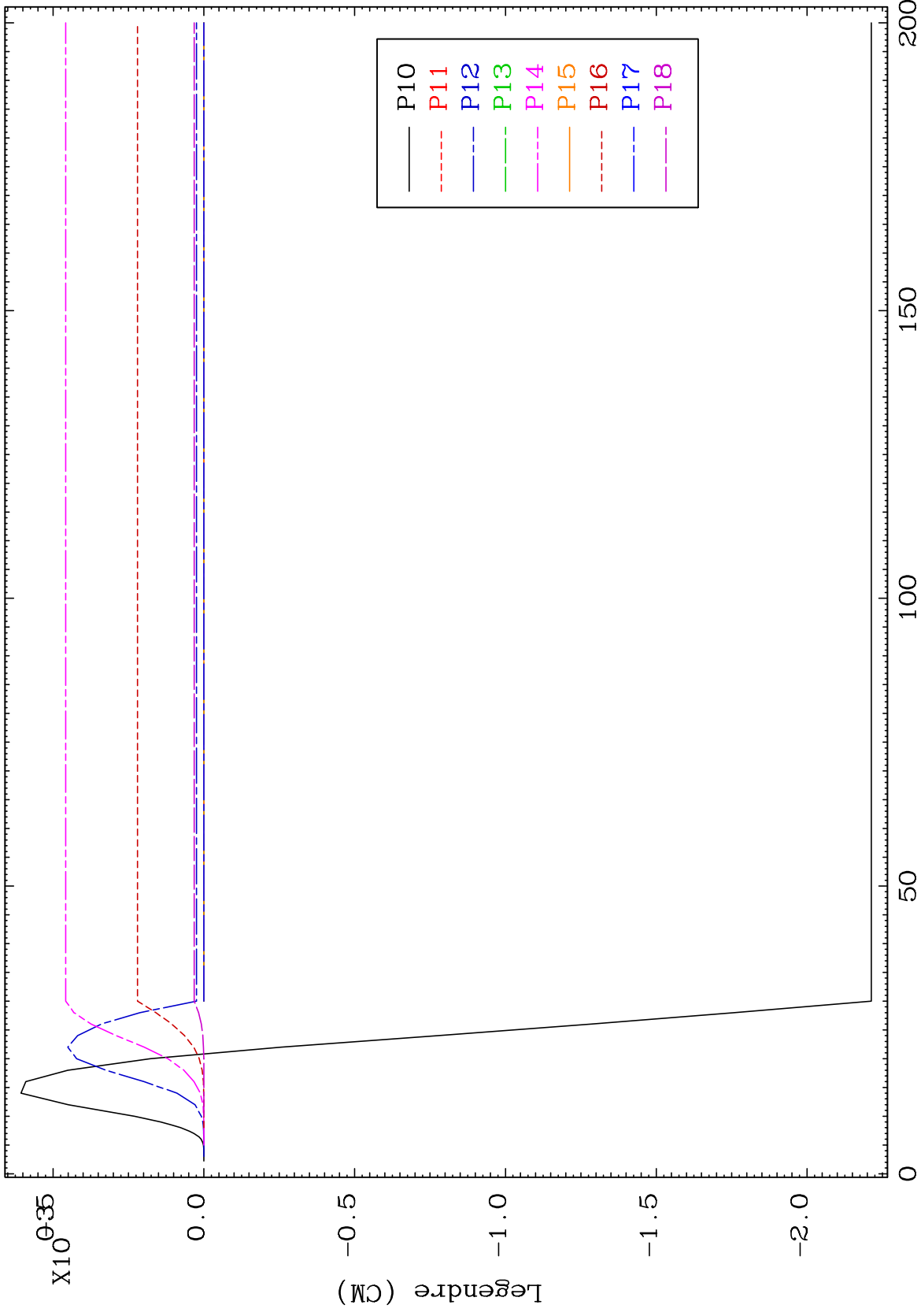




MAT 6974

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

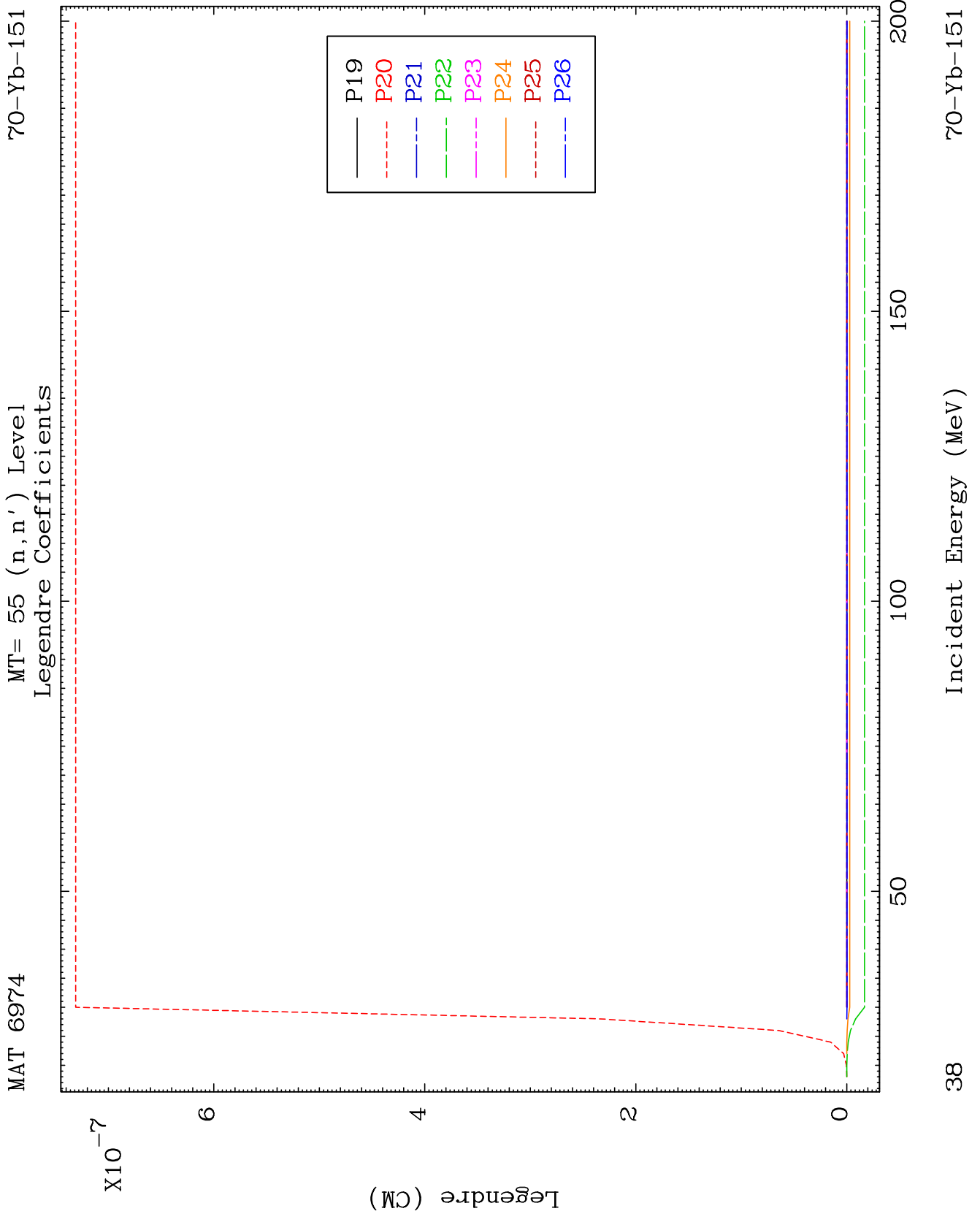
70-Yb-151



37

Incident Energy (MeV)

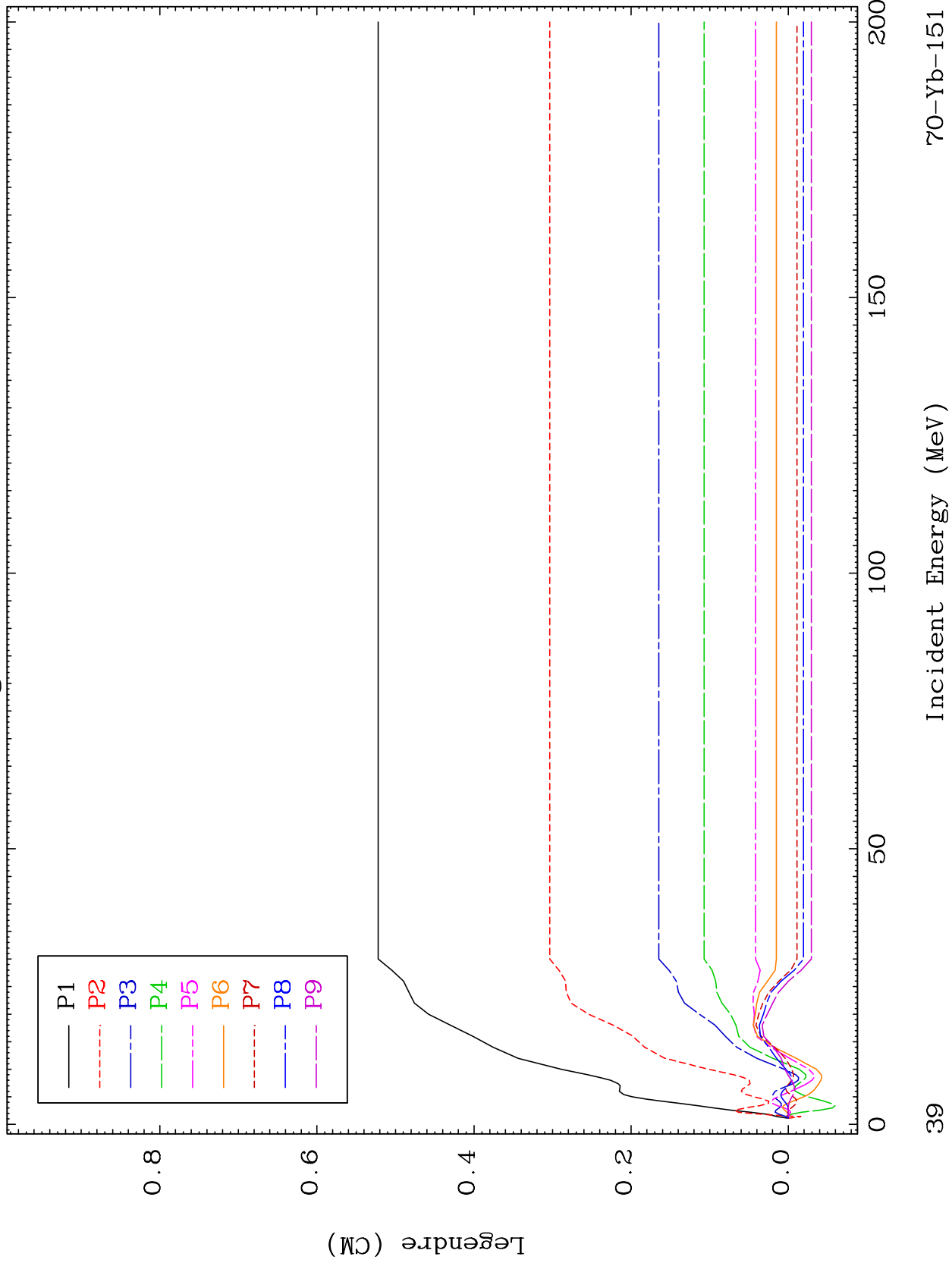
70-Yb-151



MAT 6974

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

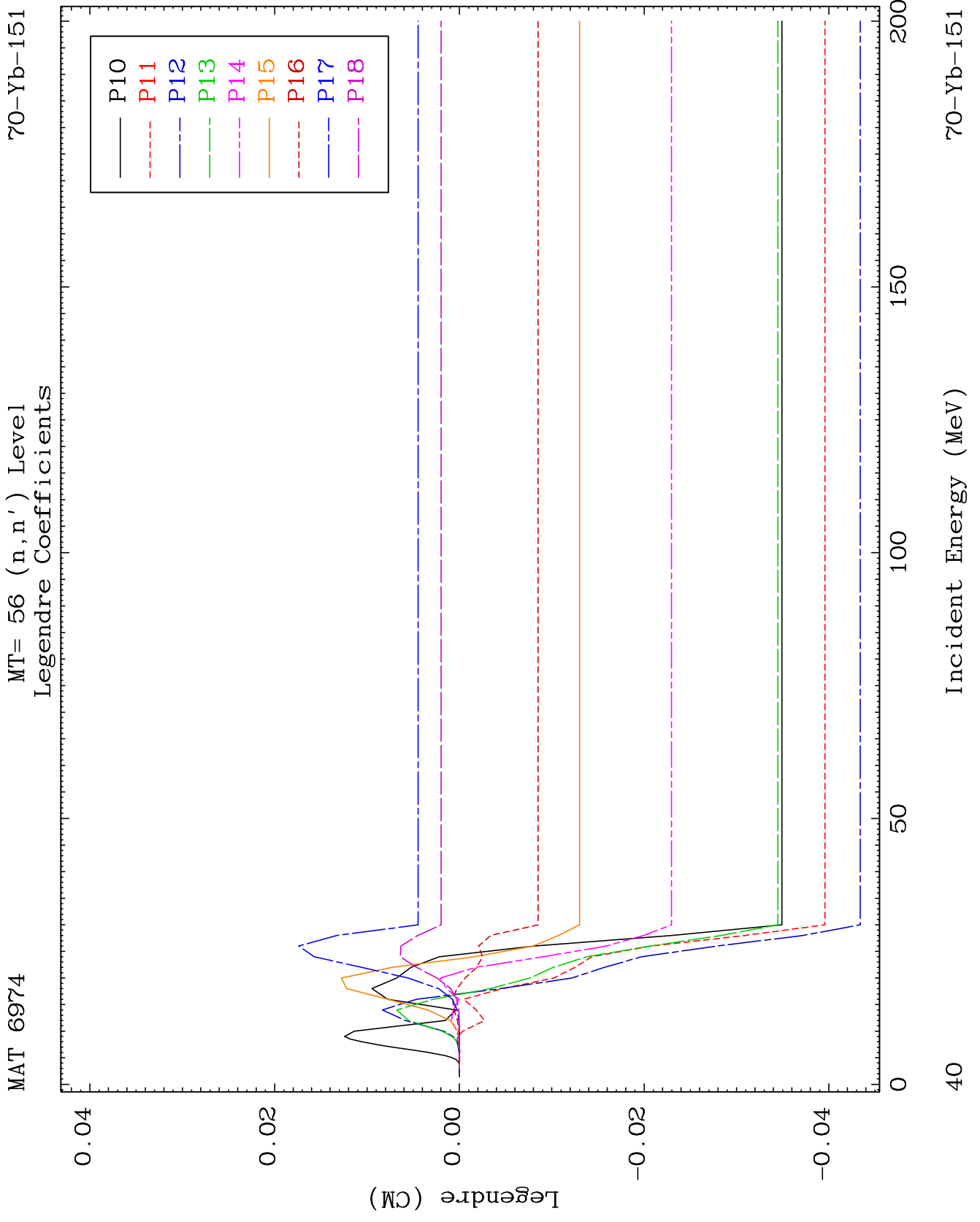
70-Yb-151



39

Incident Energy (MeV)

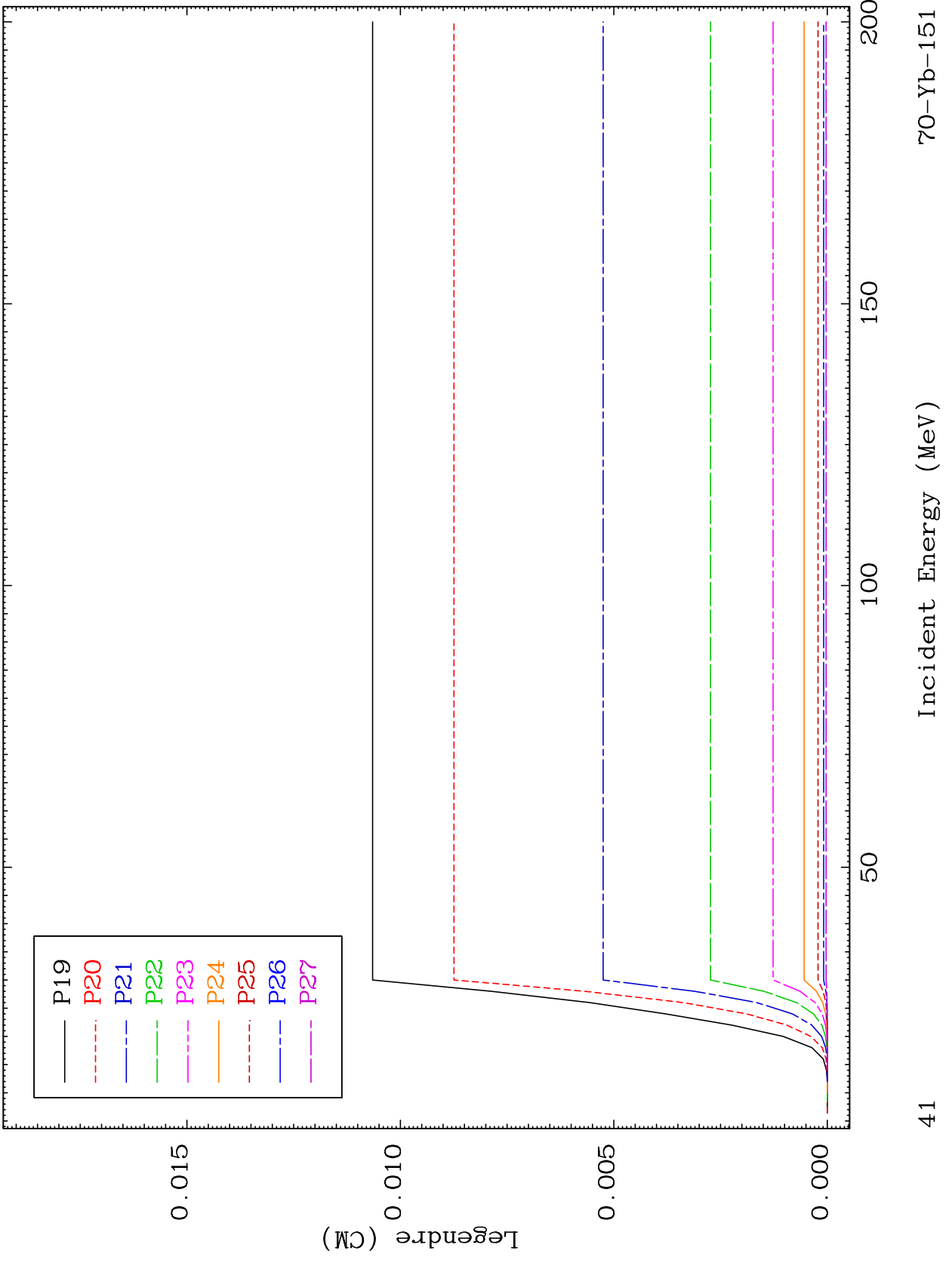
70-Yb-151



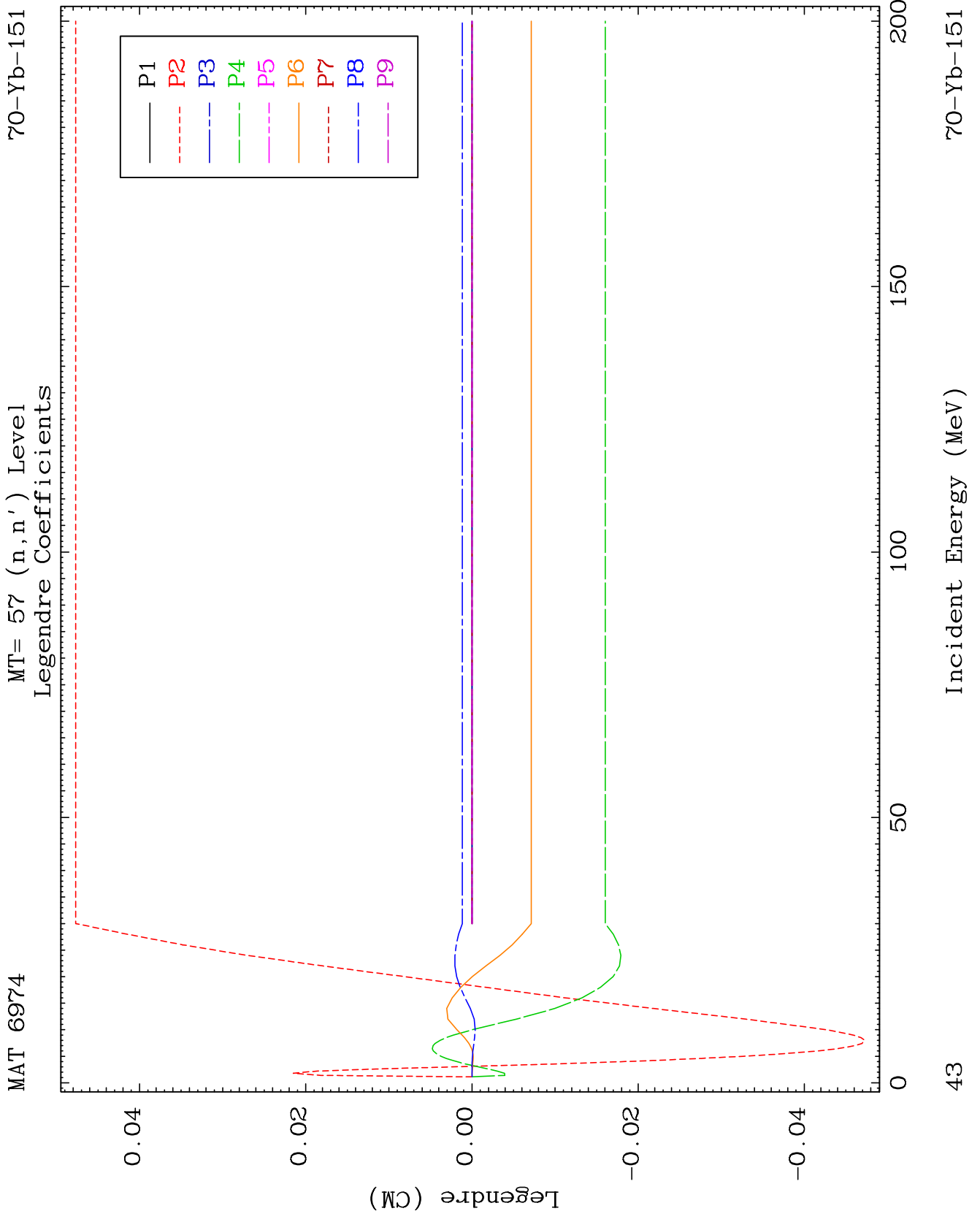
MAT 6974

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

70-Yb-151



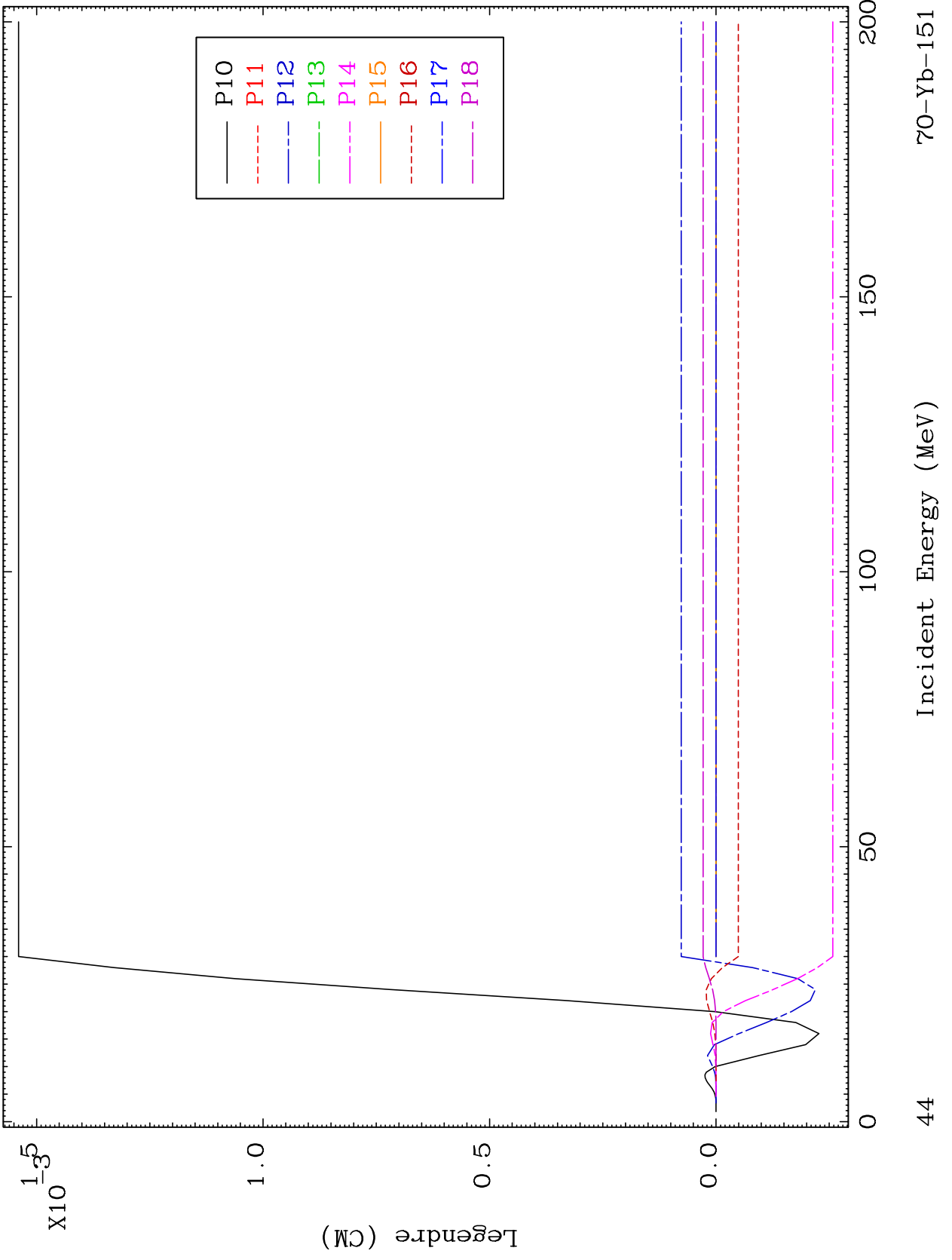




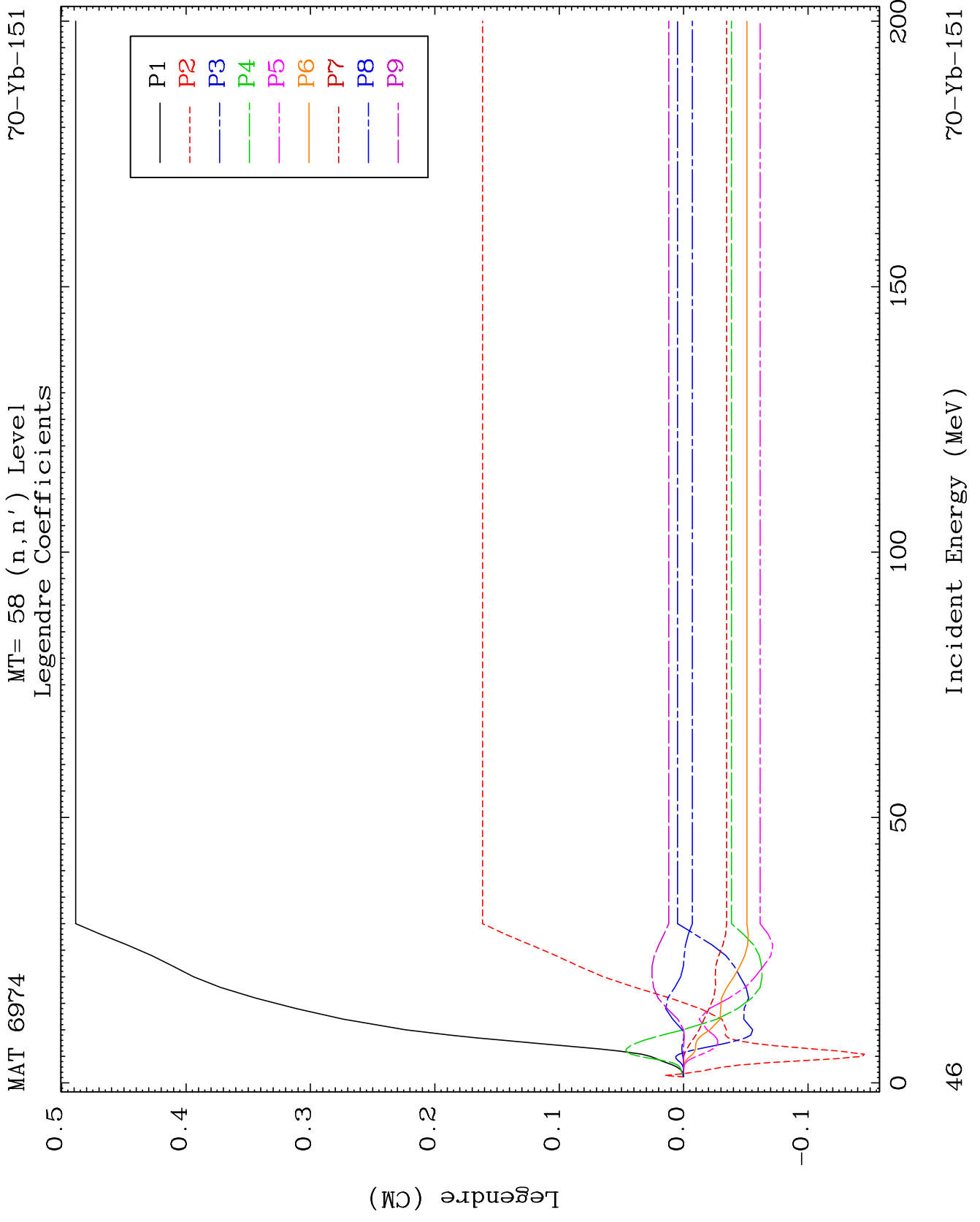
MAT 6974

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

70-Yb-151



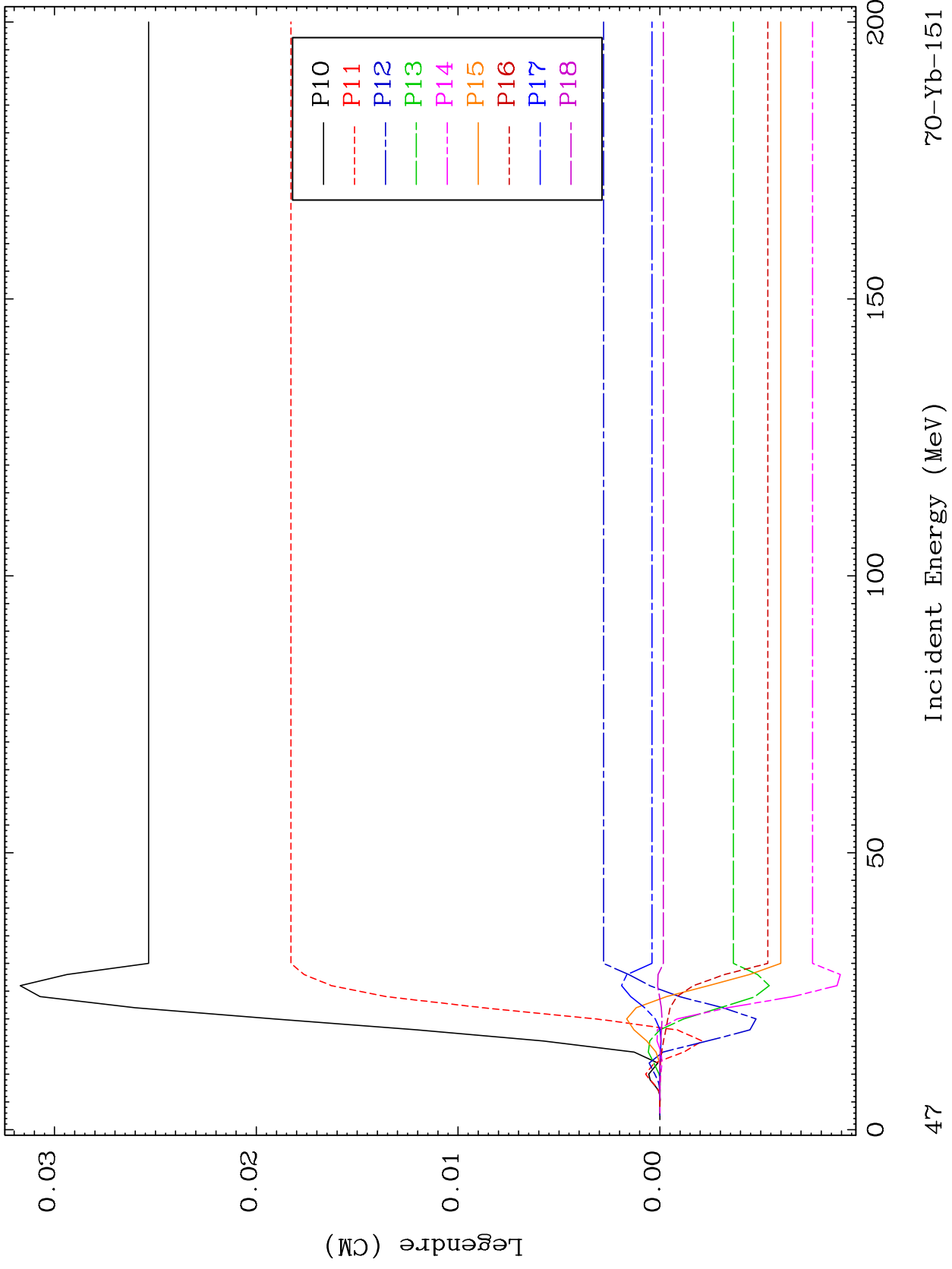




MAT 6974

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

70-Yb-151



47

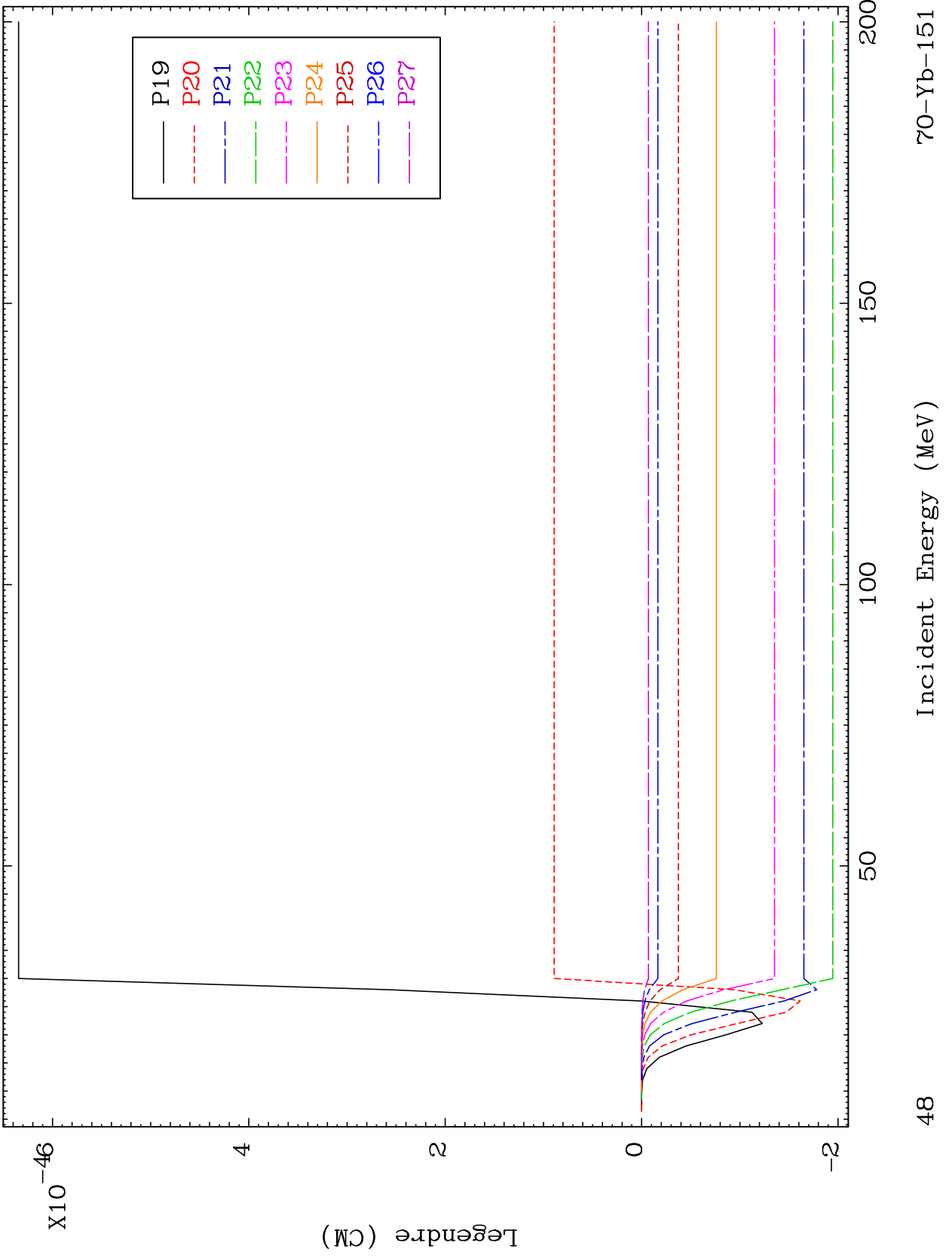
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

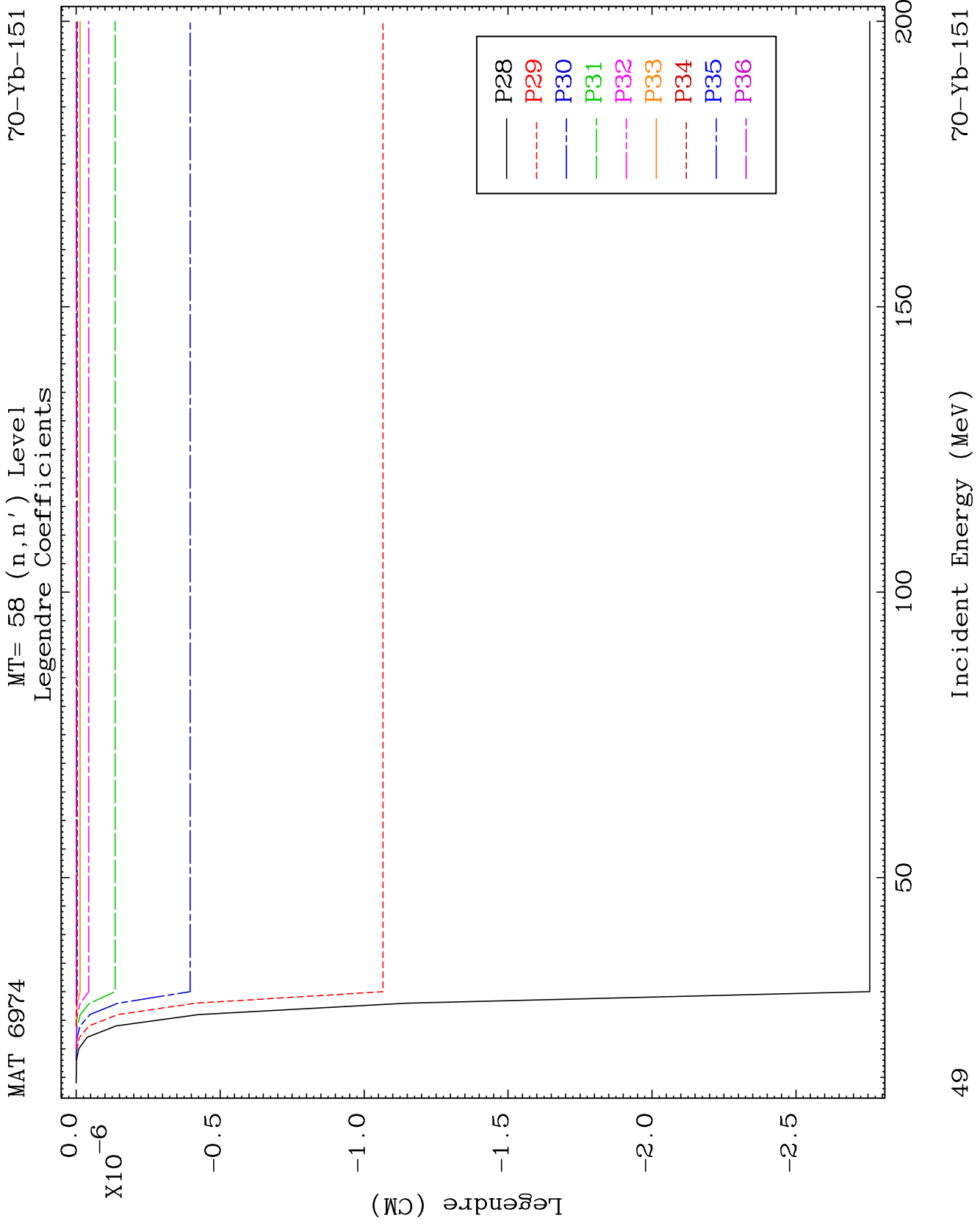
70-Yb-151



48

Incident Energy (MeV)

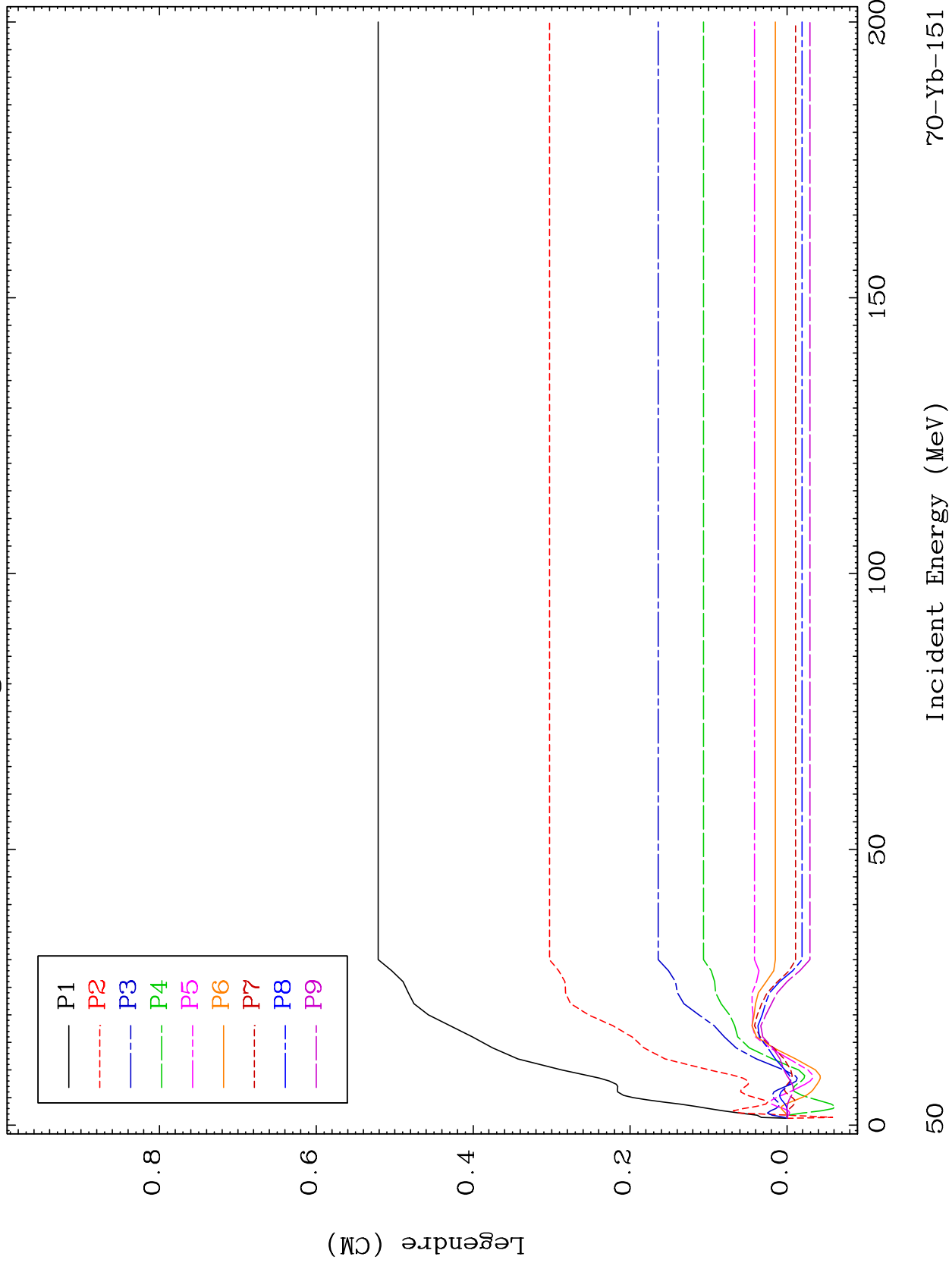
70-Yb-151



MAT 6974

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

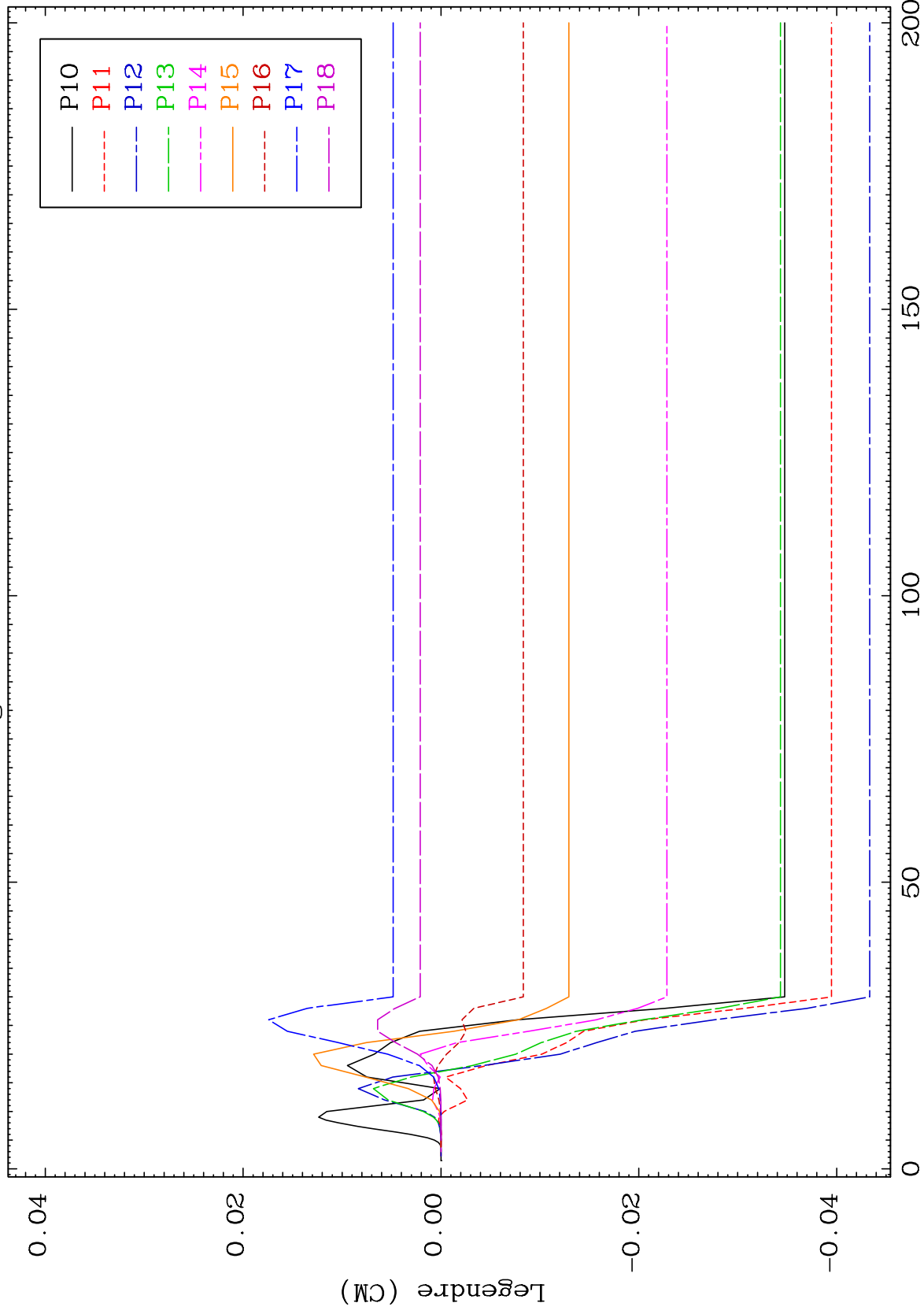
70-Yb-151



MAT 6974

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

70-Yb-151



51

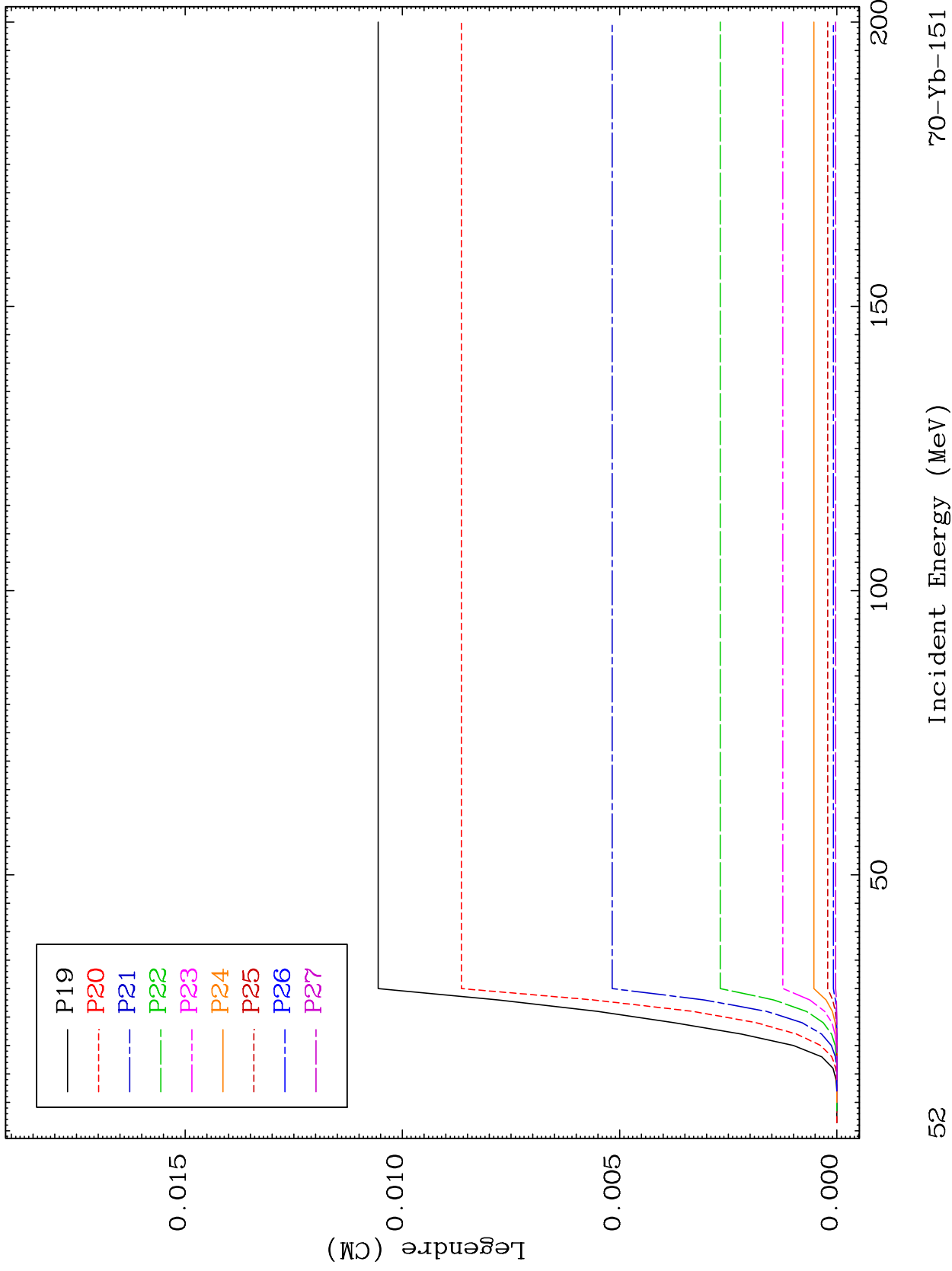
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



52

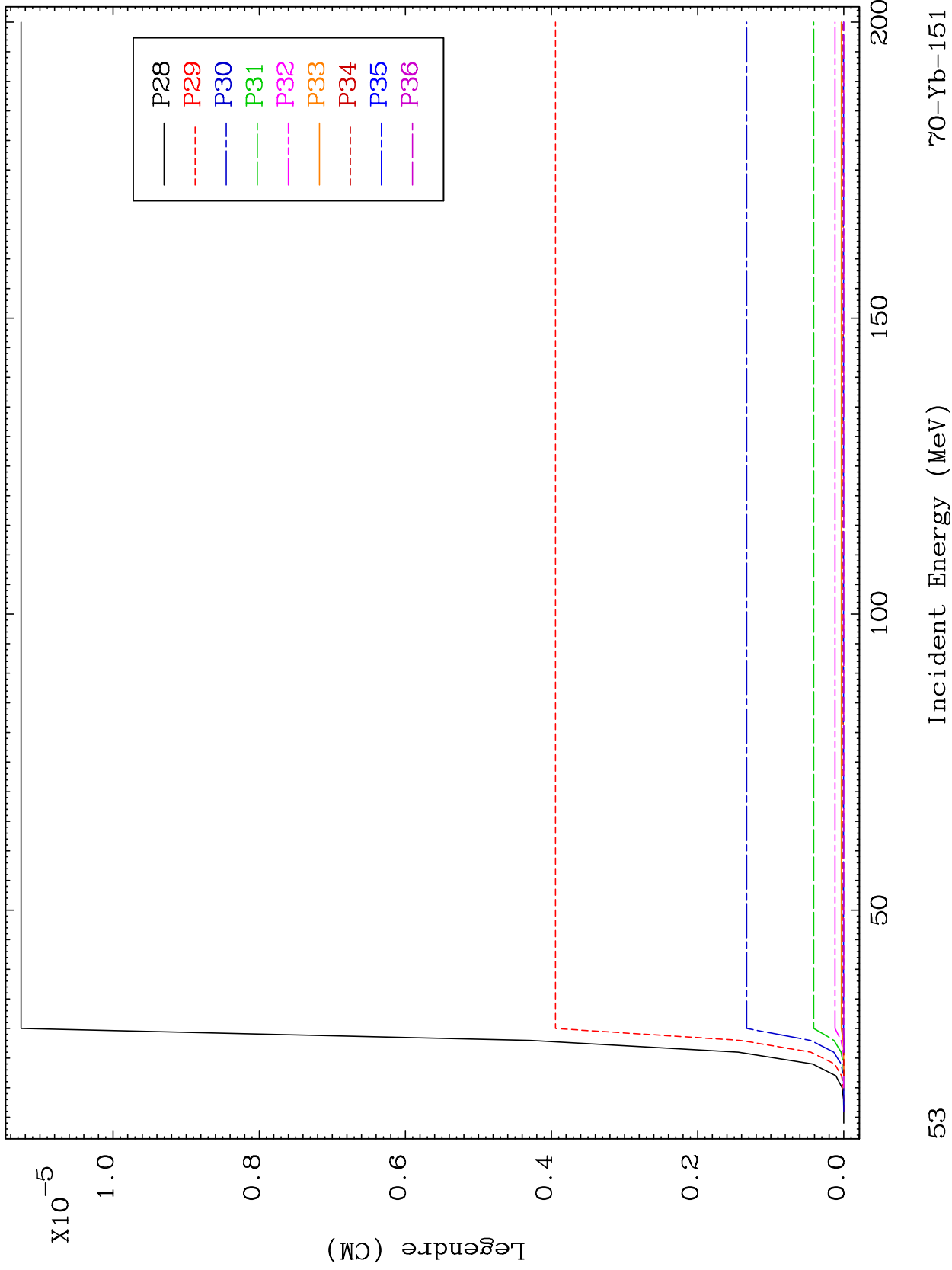
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



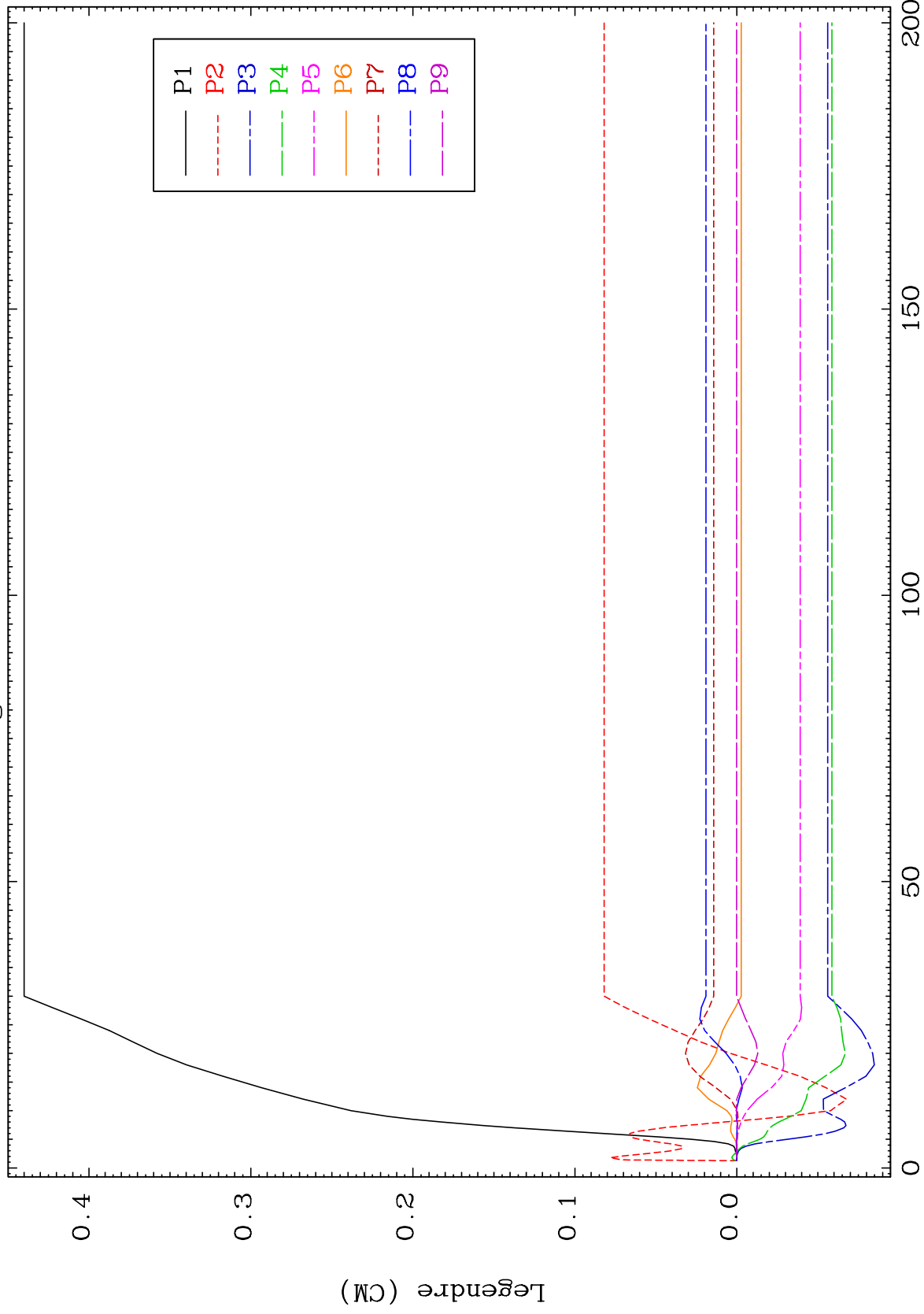
53

70-Yb-151

MAT 6974

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

70-Yb-151



54

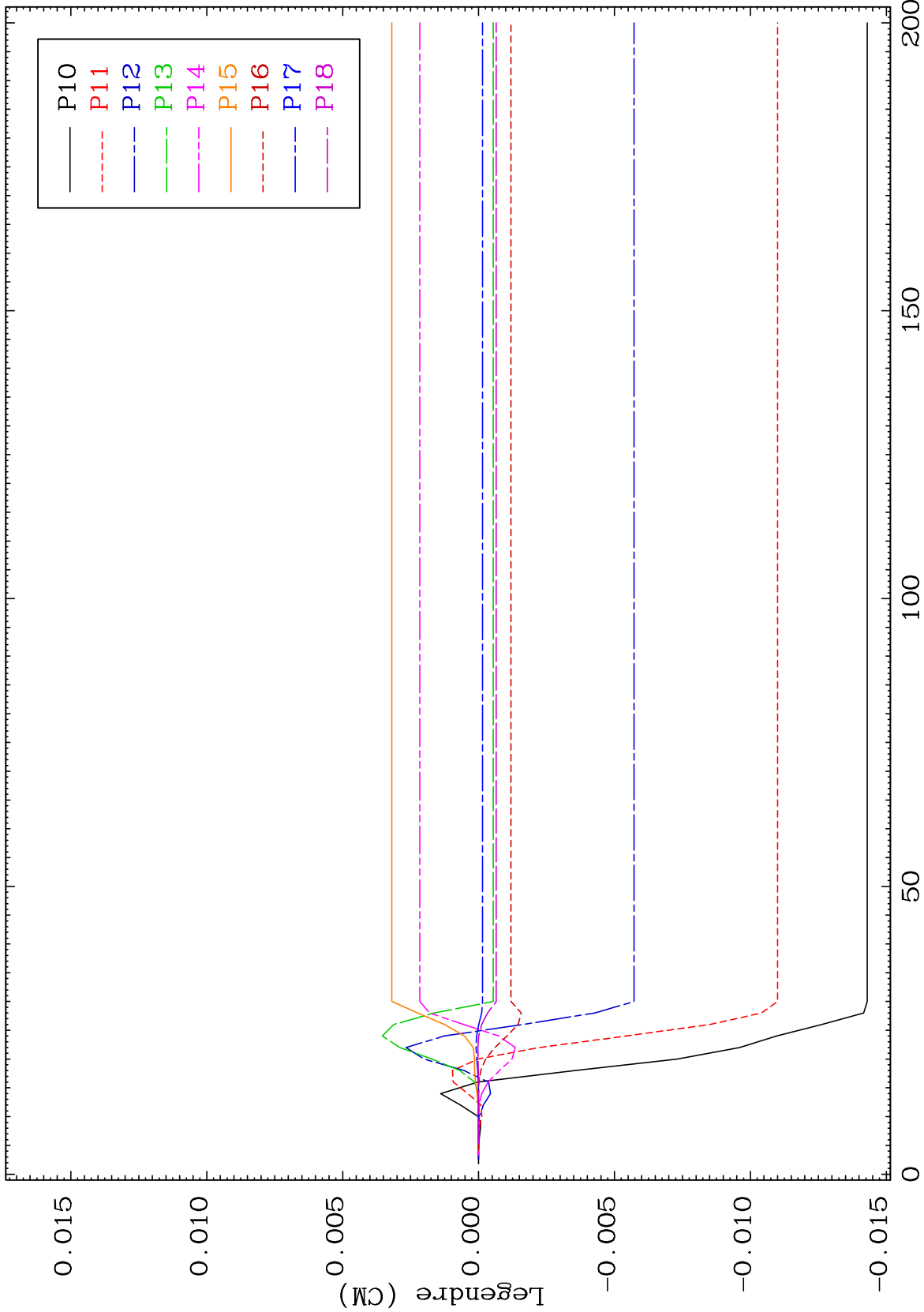
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



55

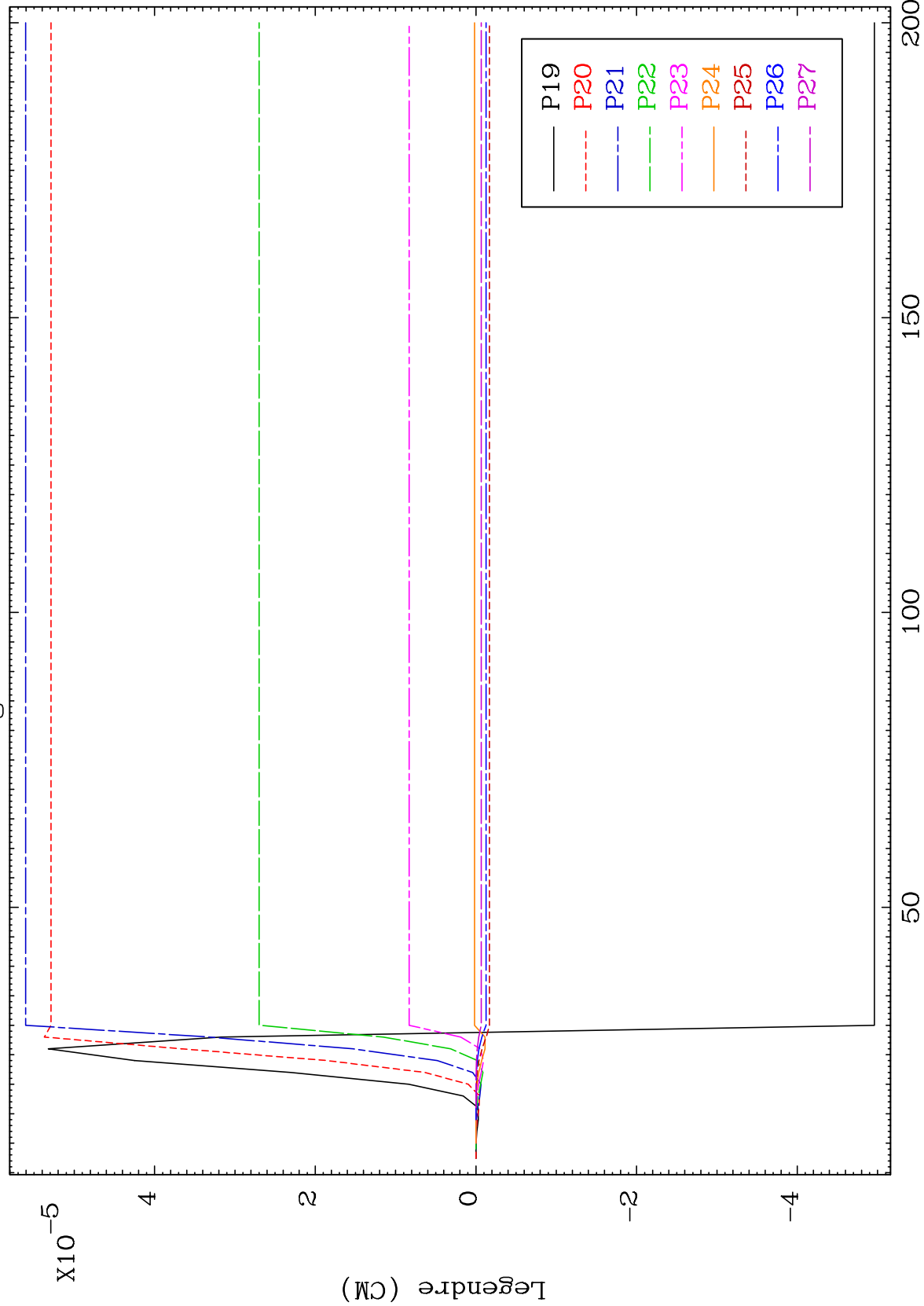
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

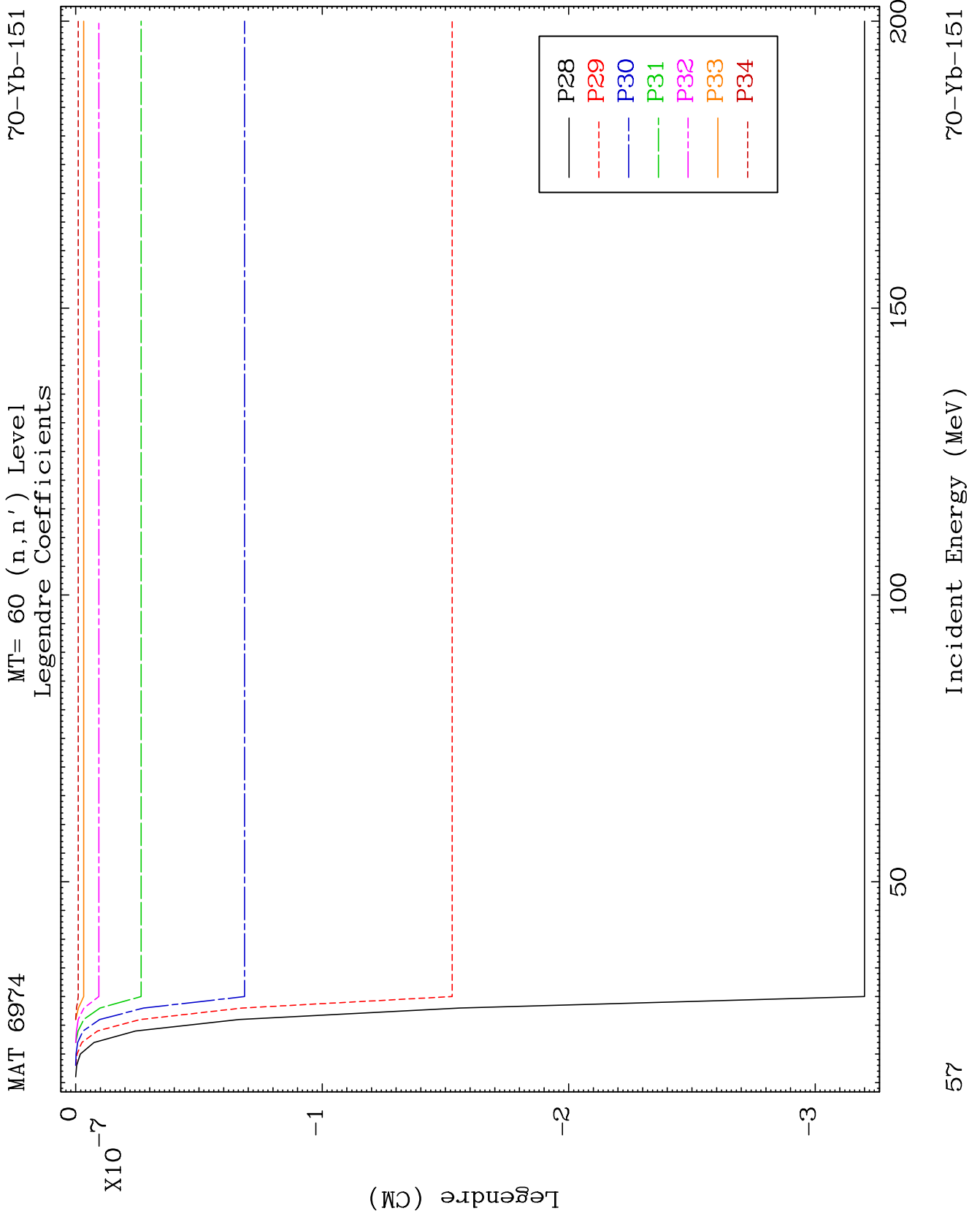
70-Yb-151

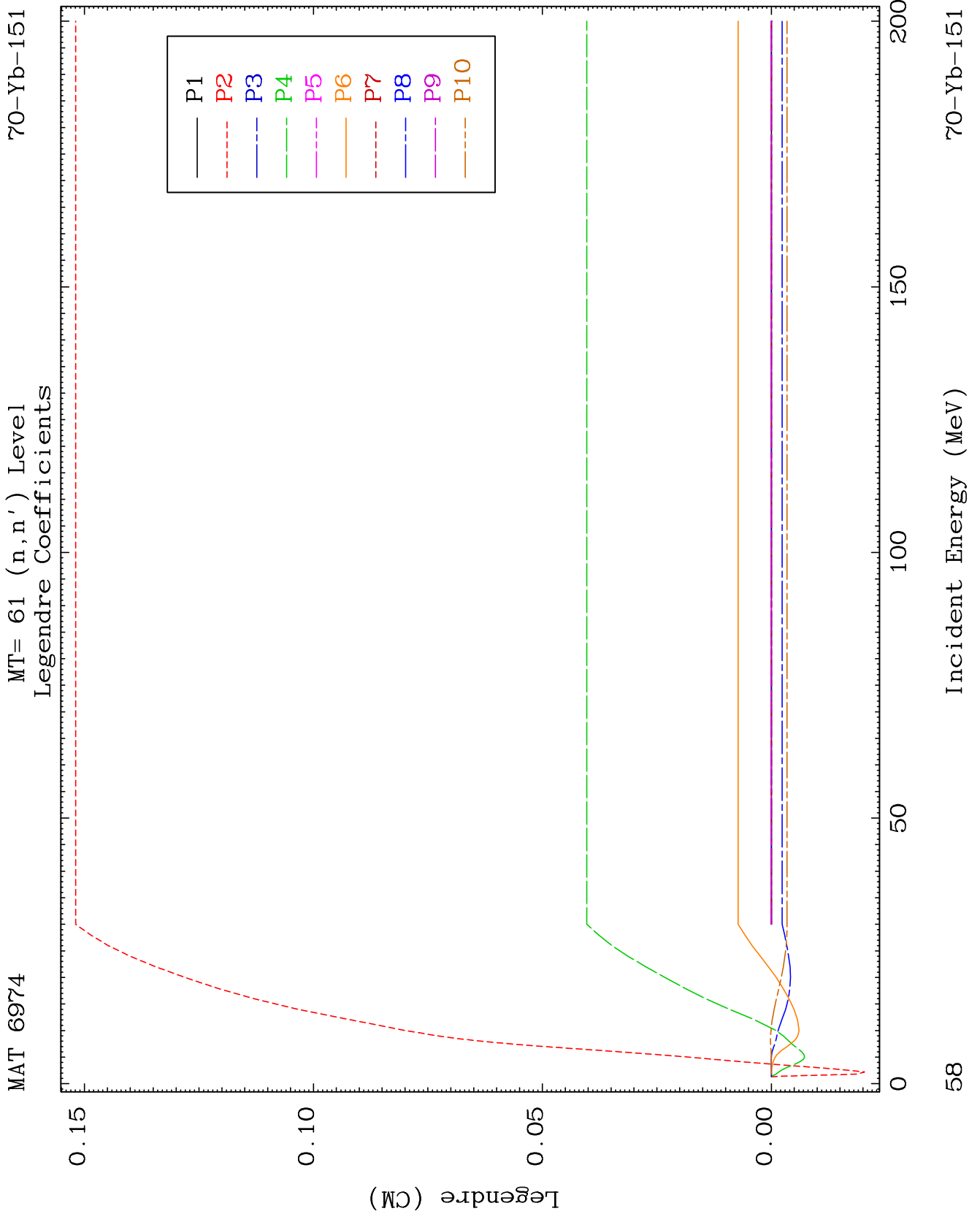


56

Incident Energy (MeV)

70-Yb-151

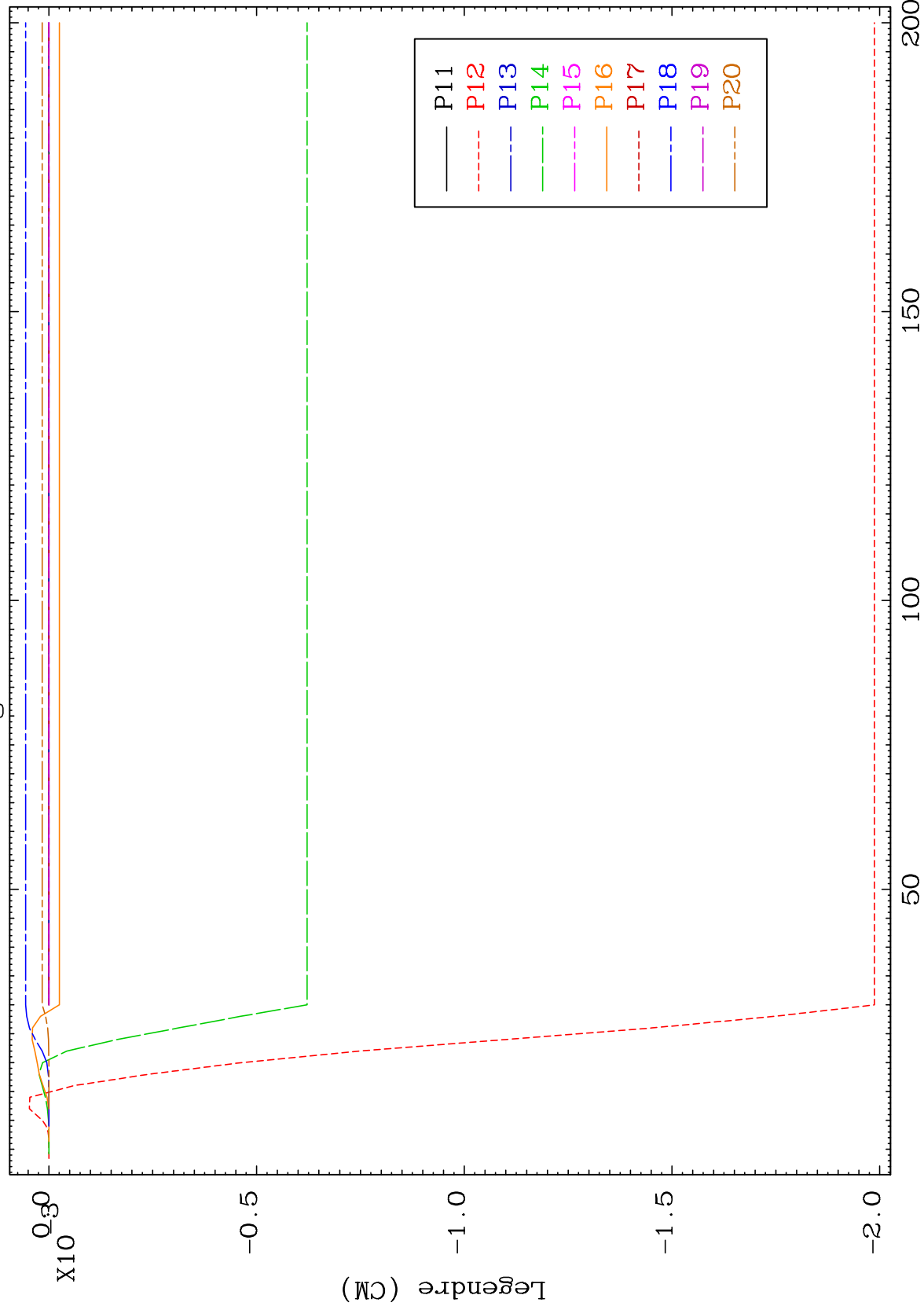




MAT 6974

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

70-Yb-151

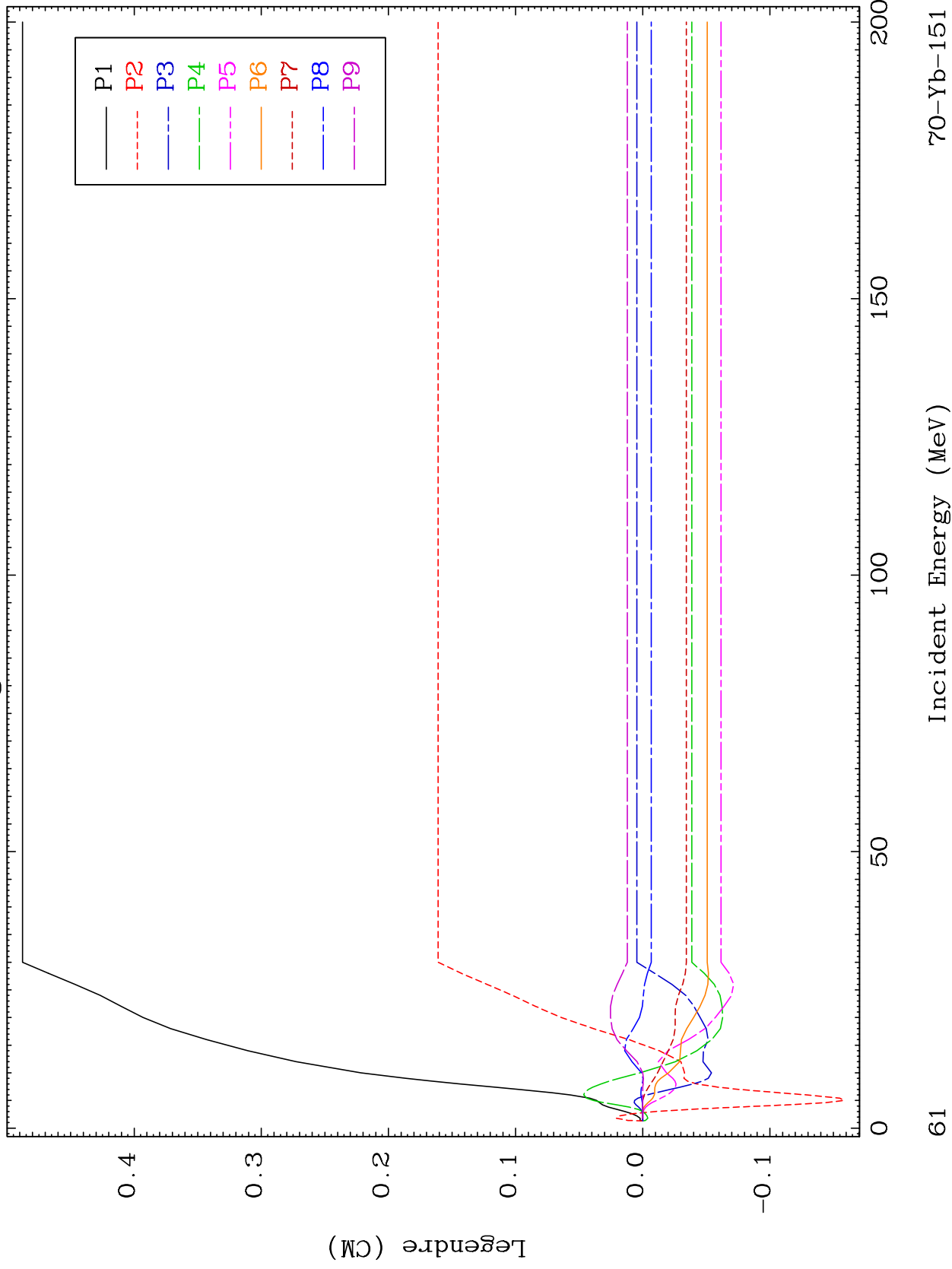




MAT 6974

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

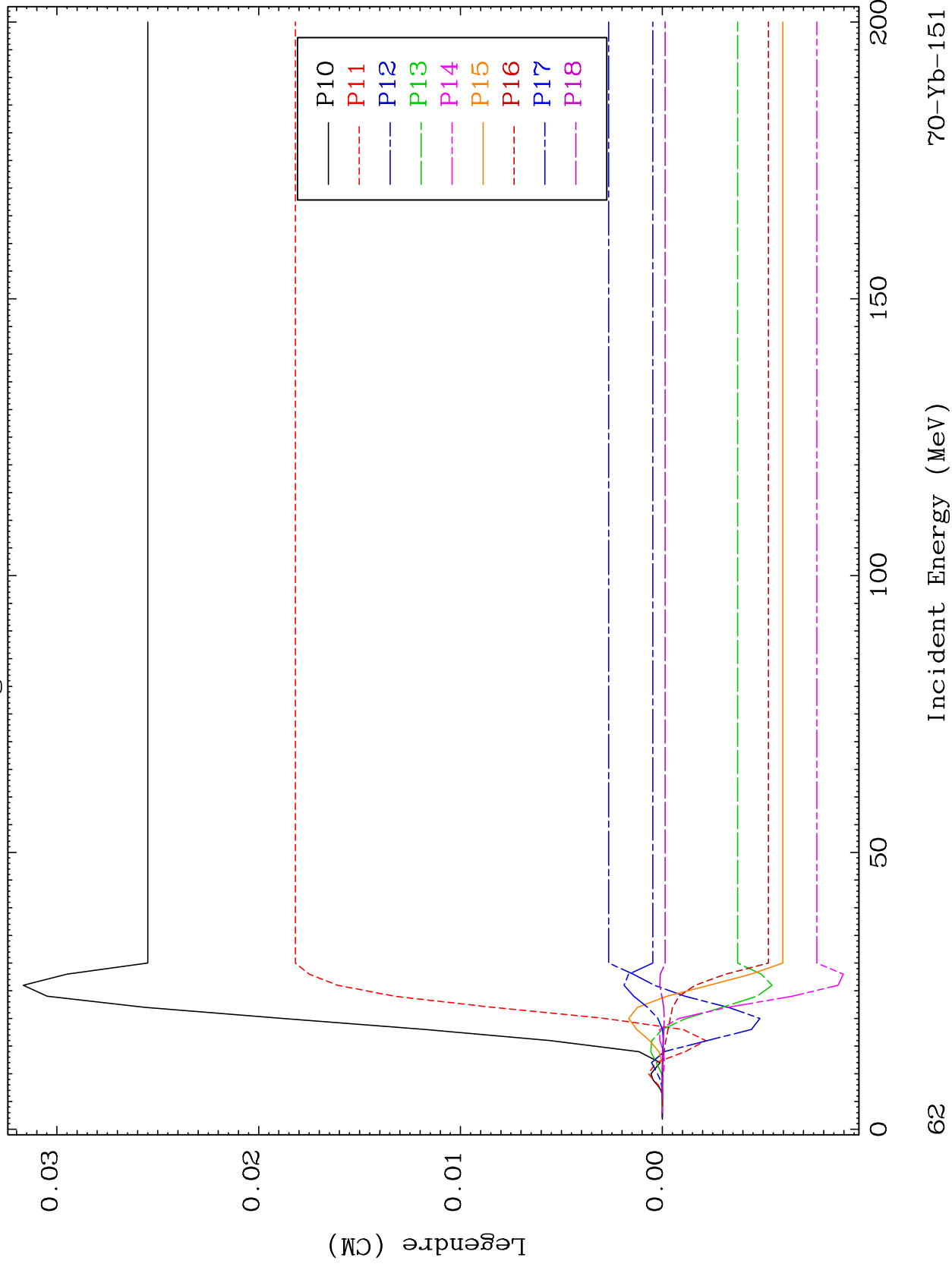
70-Yb-151



MAT 6974

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

70-Yb-151



70-Yb-151

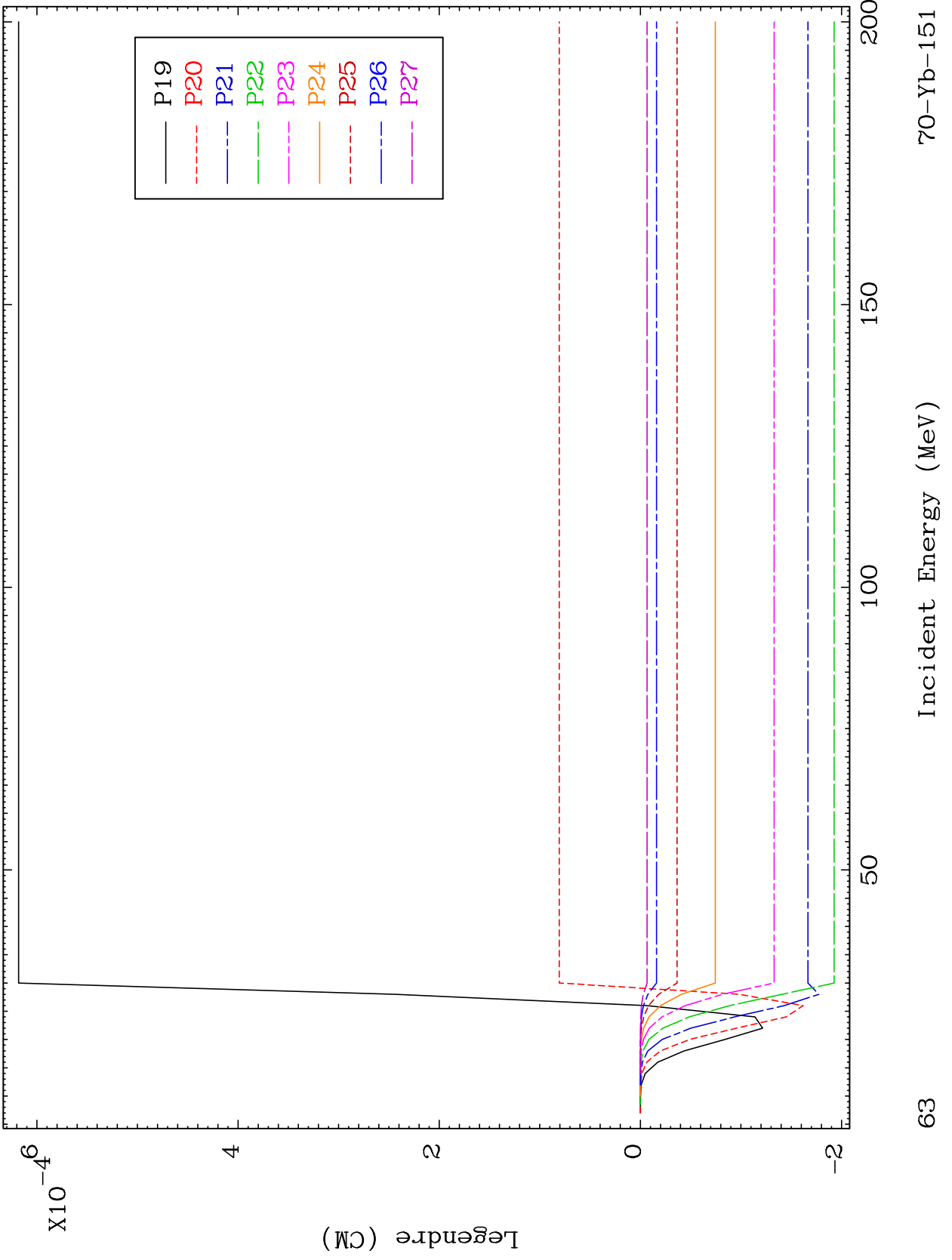
Incident Energy (MeV)

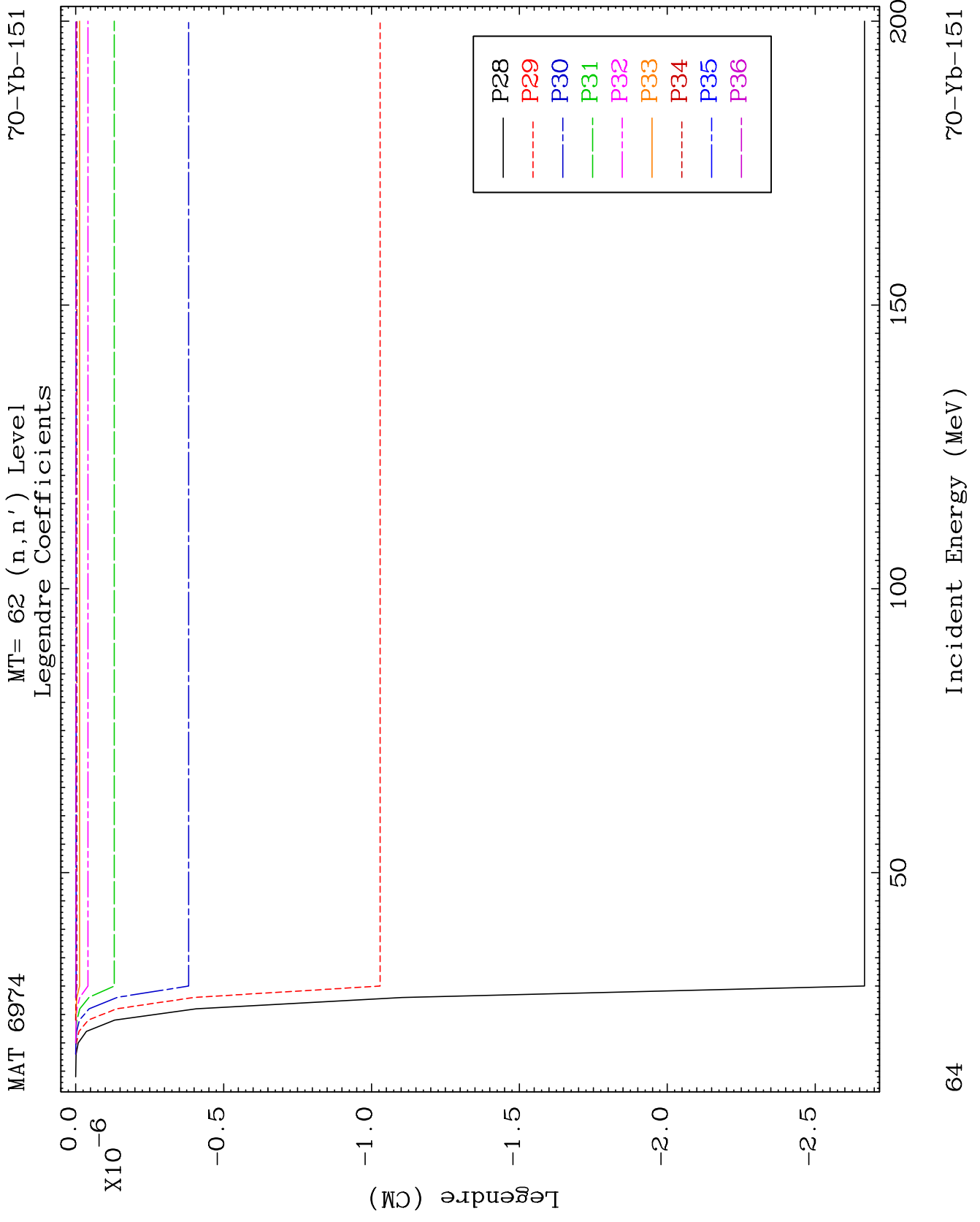
62

MAT 6974

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

70-Yb-151



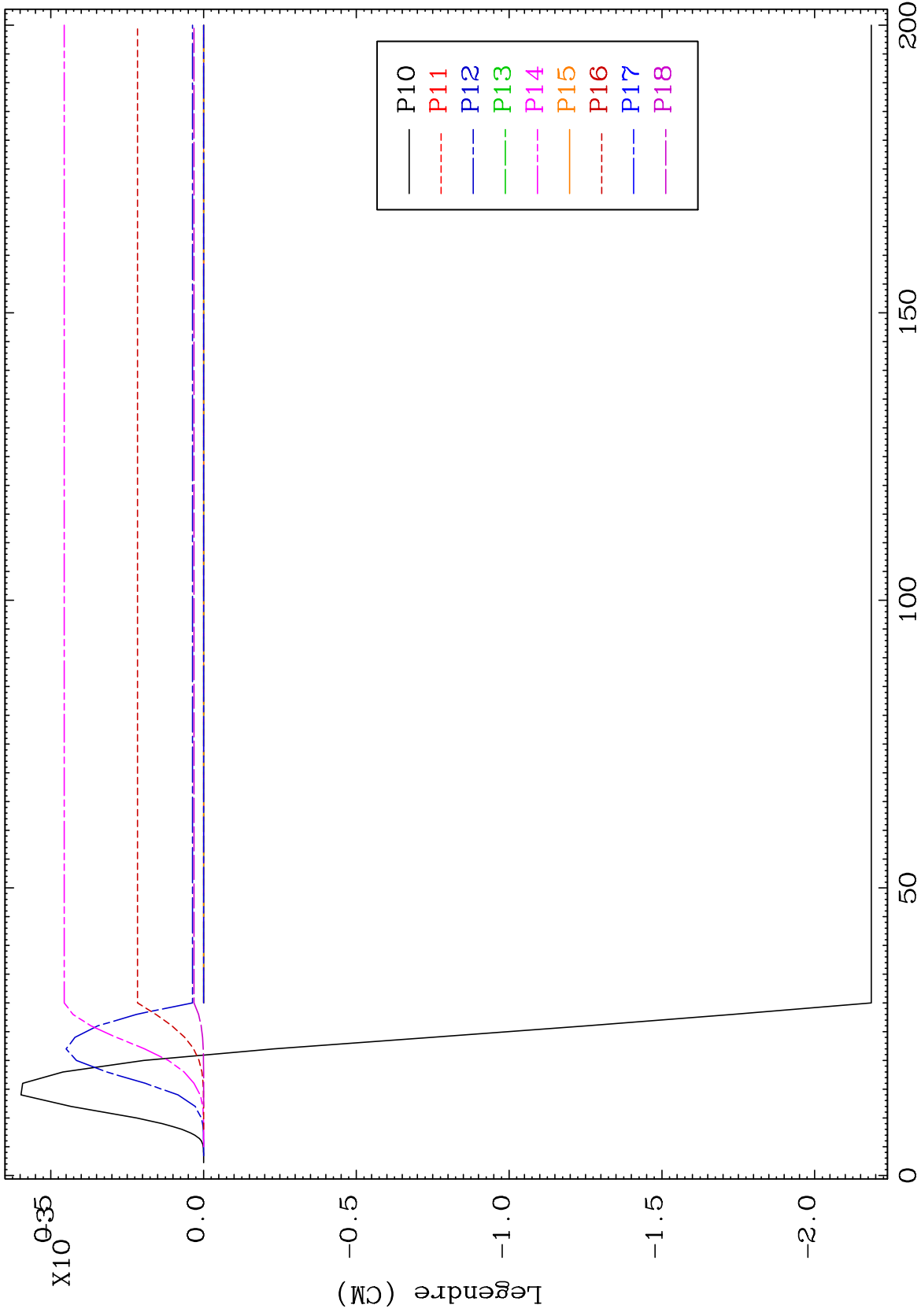




MAT 6974

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

70-Yb-151



66

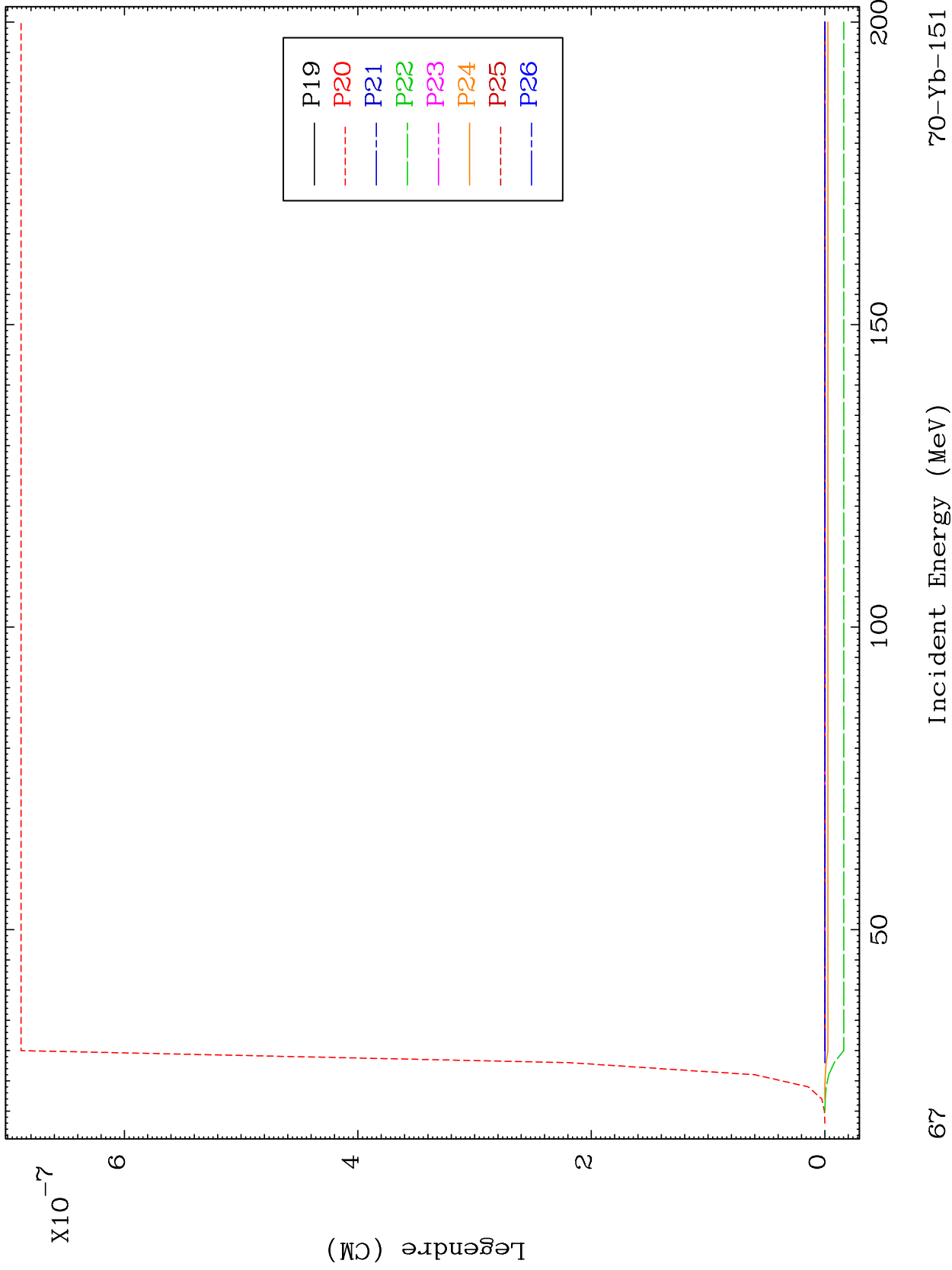
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



67

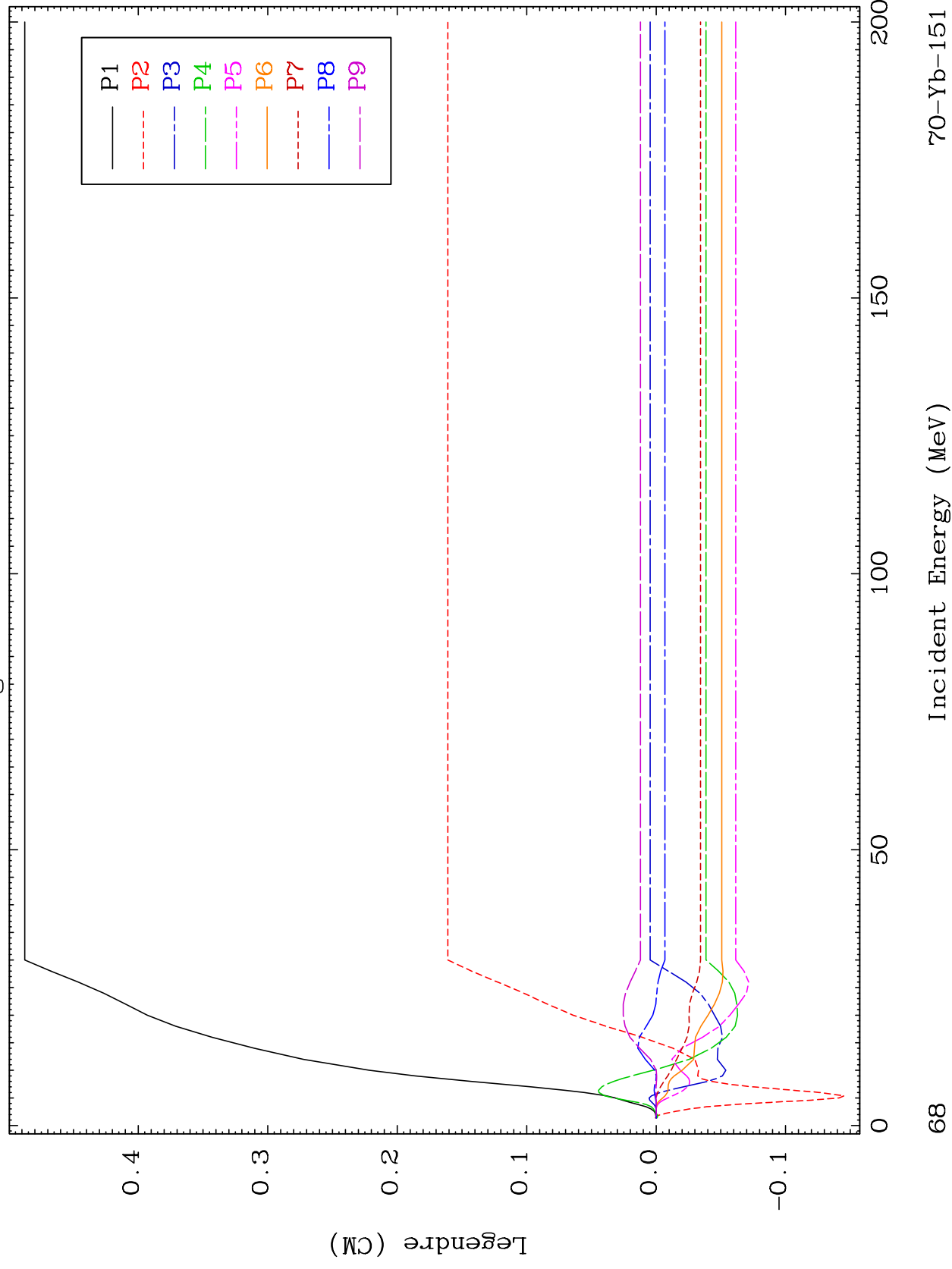
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



70-Yb-151

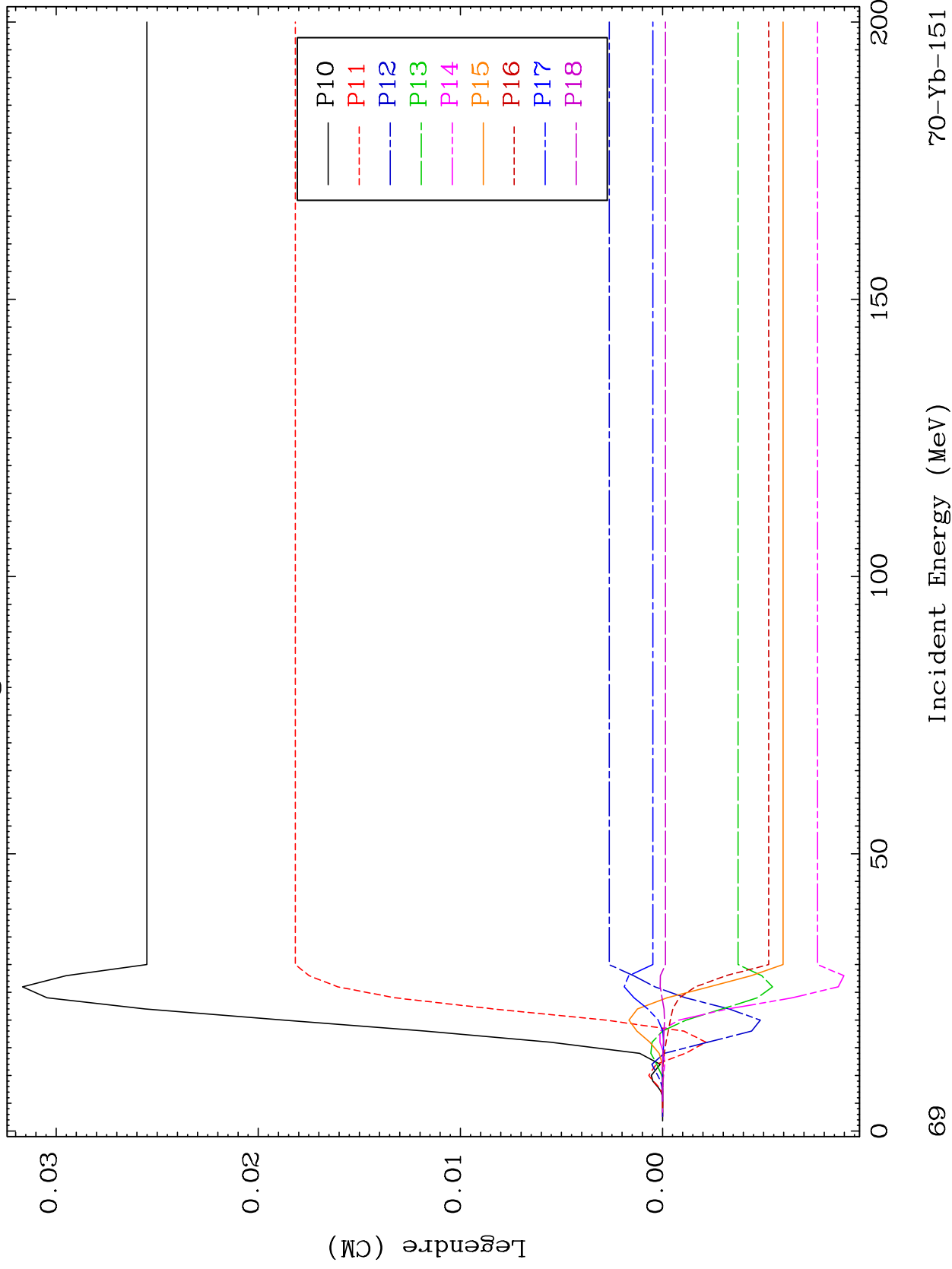
Incident Energy (MeV)

68

MAT 6974

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

70-Yb-151



69

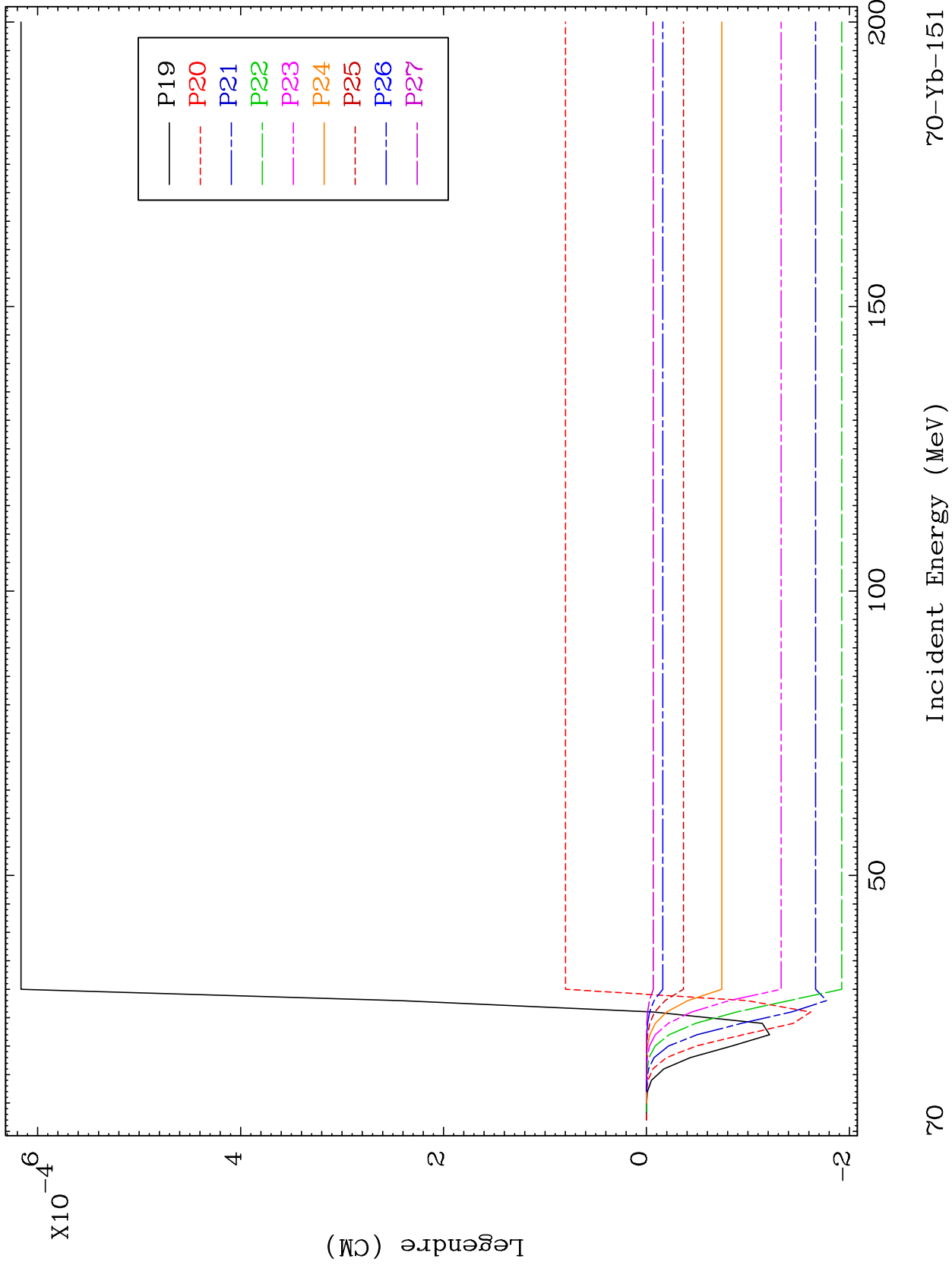
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



70

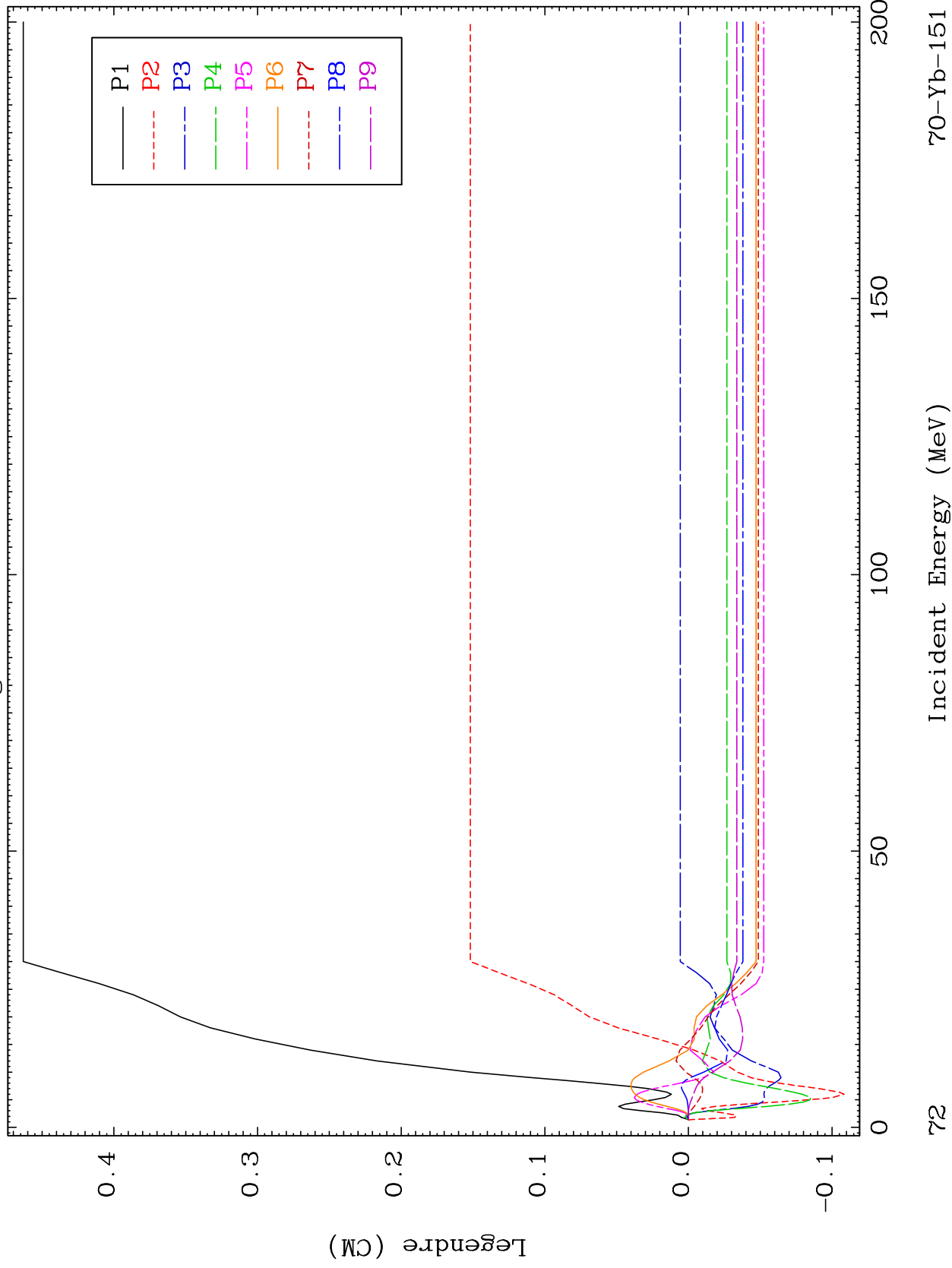
70-Yb-151



MAT 6974

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

70-Yb-151



70-Yb-151

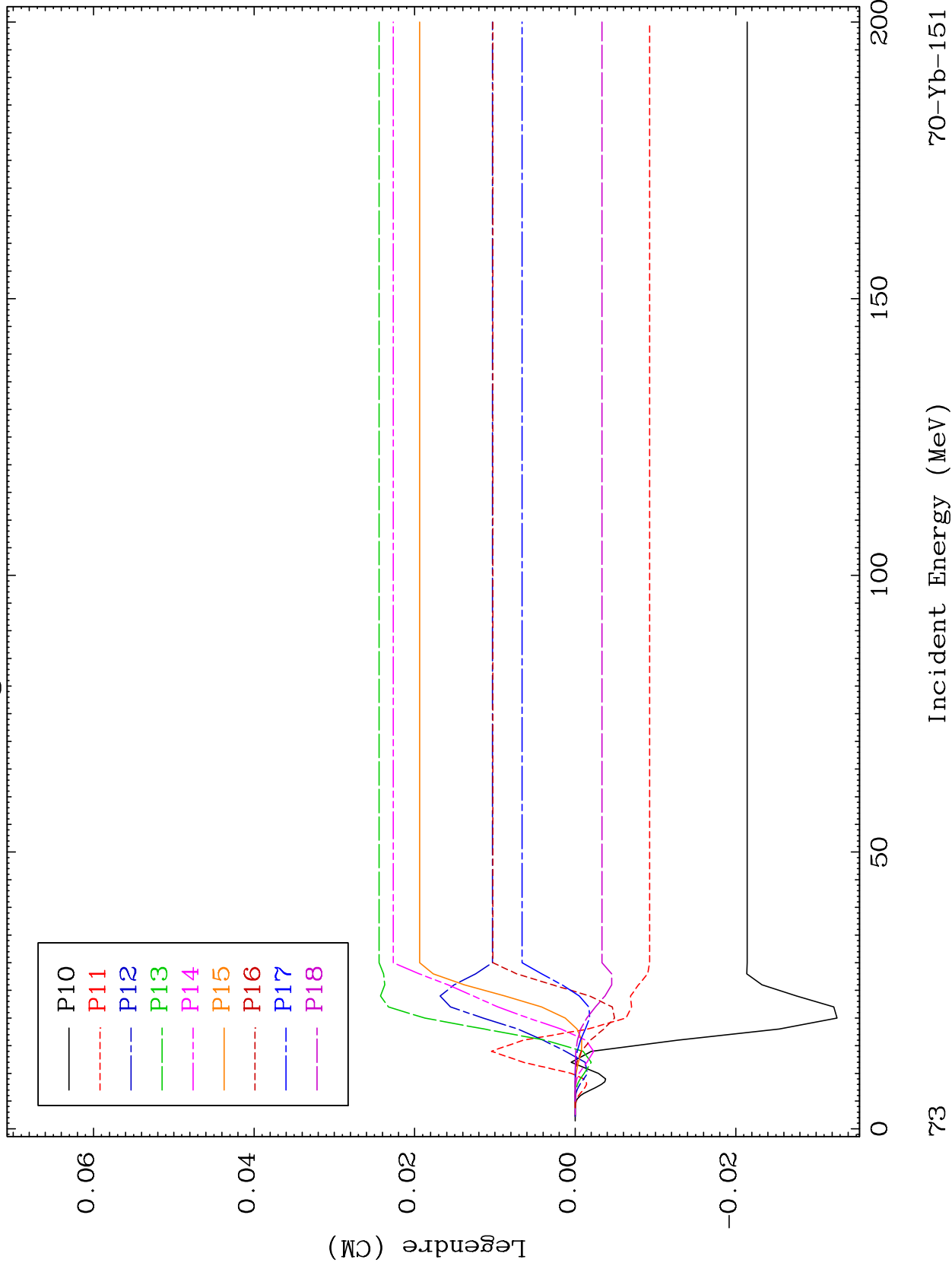
Incident Energy (MeV)

72

MAT 6974

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

70-Yb-151



73

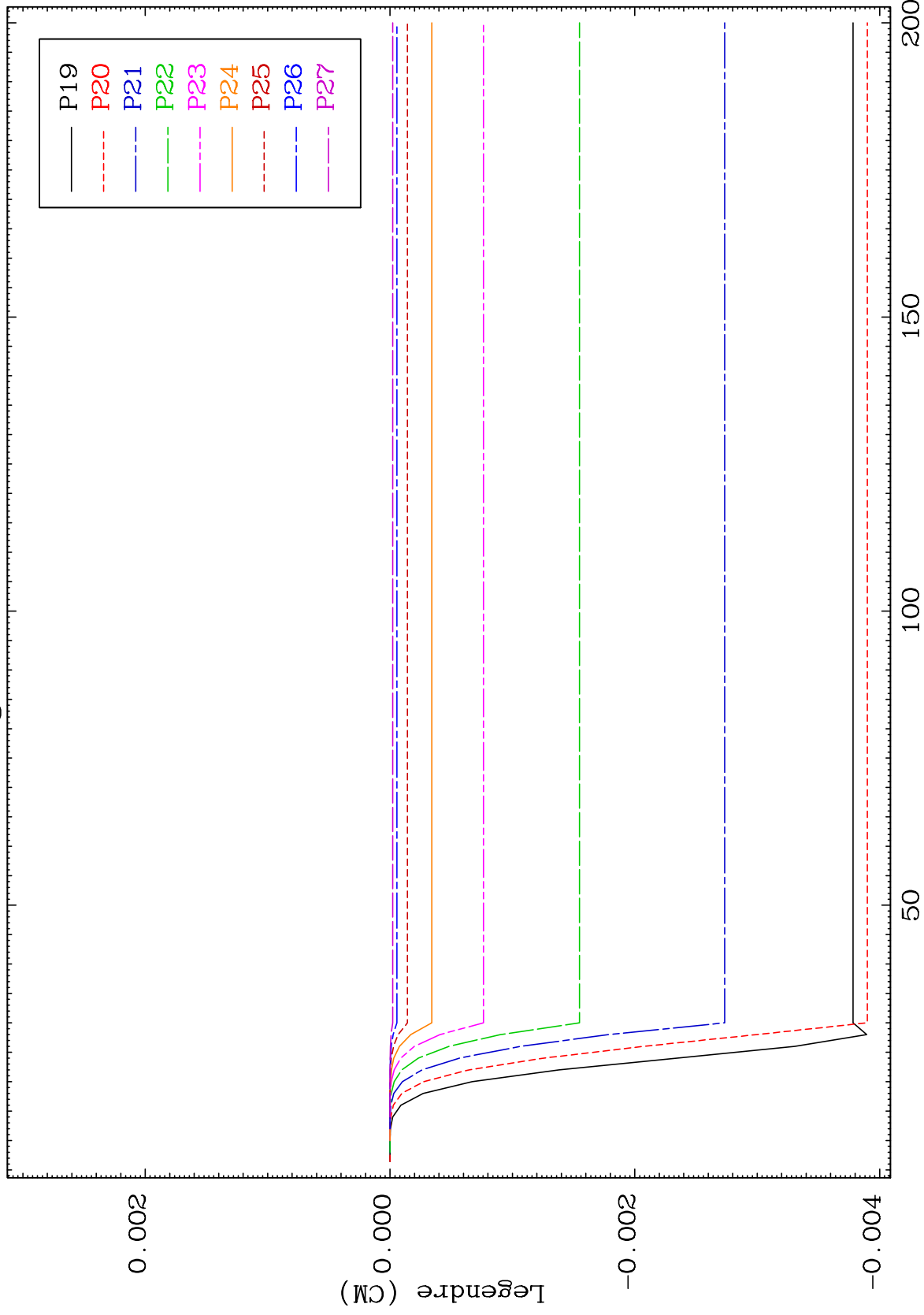
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

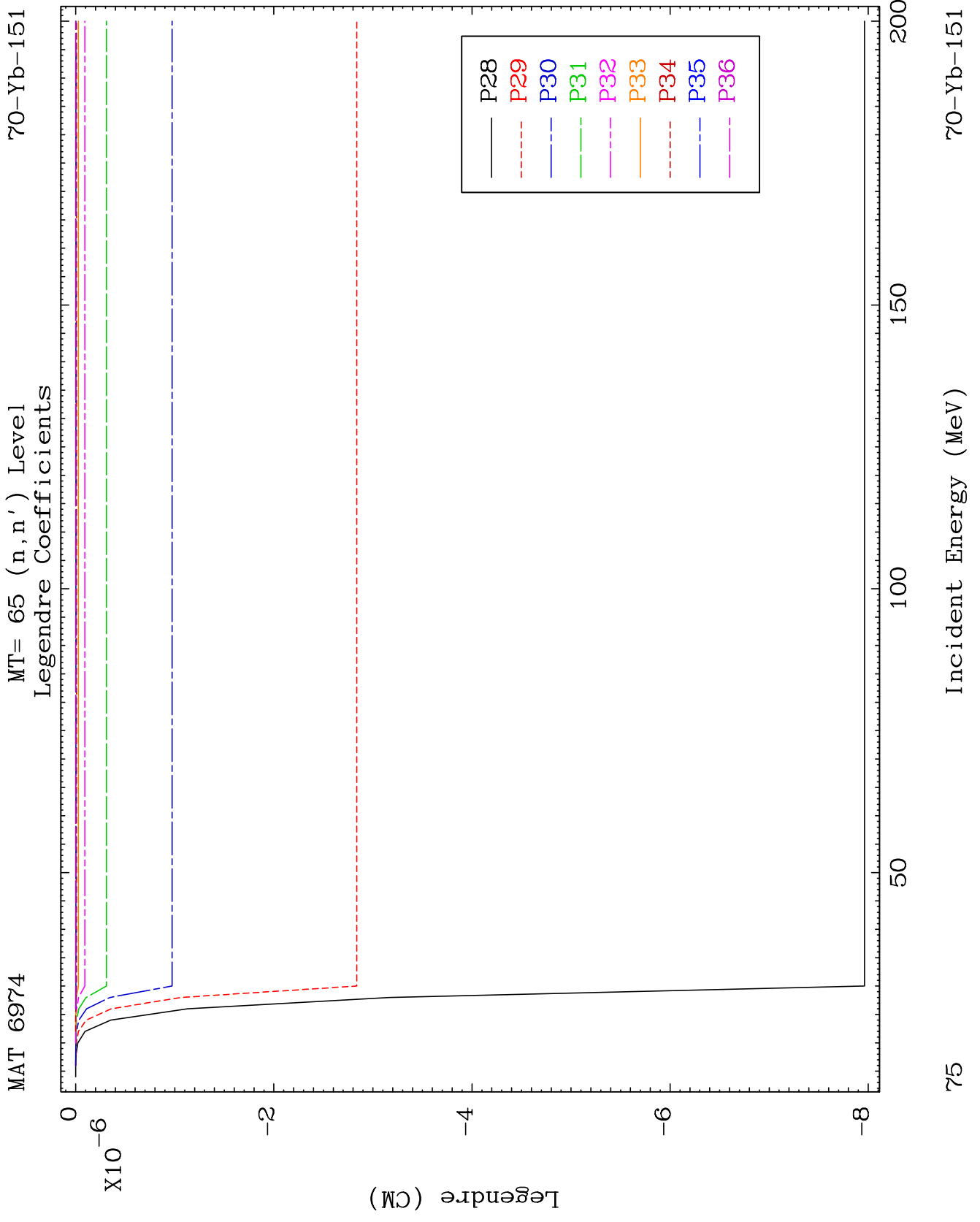
70-Yb-151

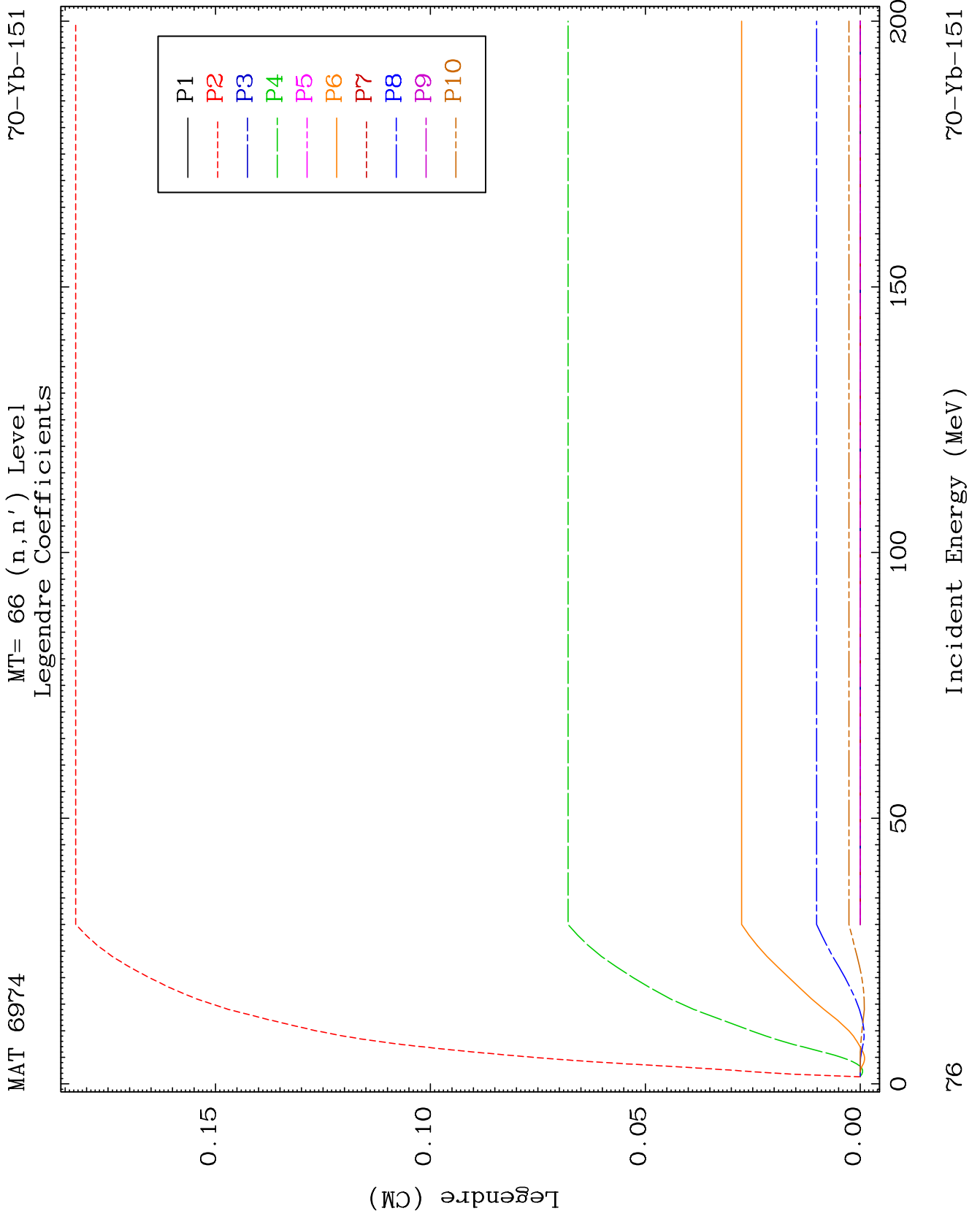


74

Incident Energy (MeV)

70-Yb-151

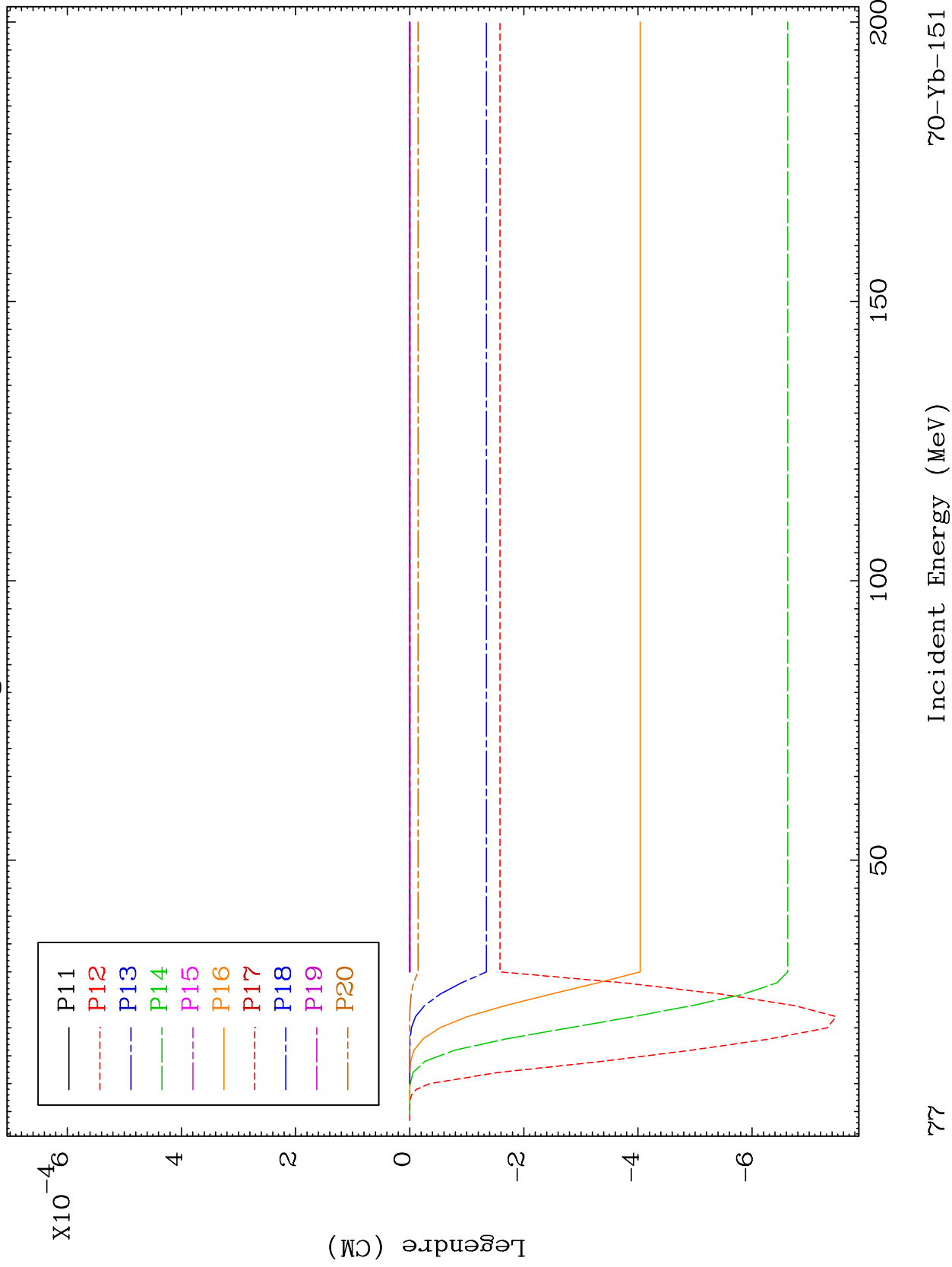




MAT 6974

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

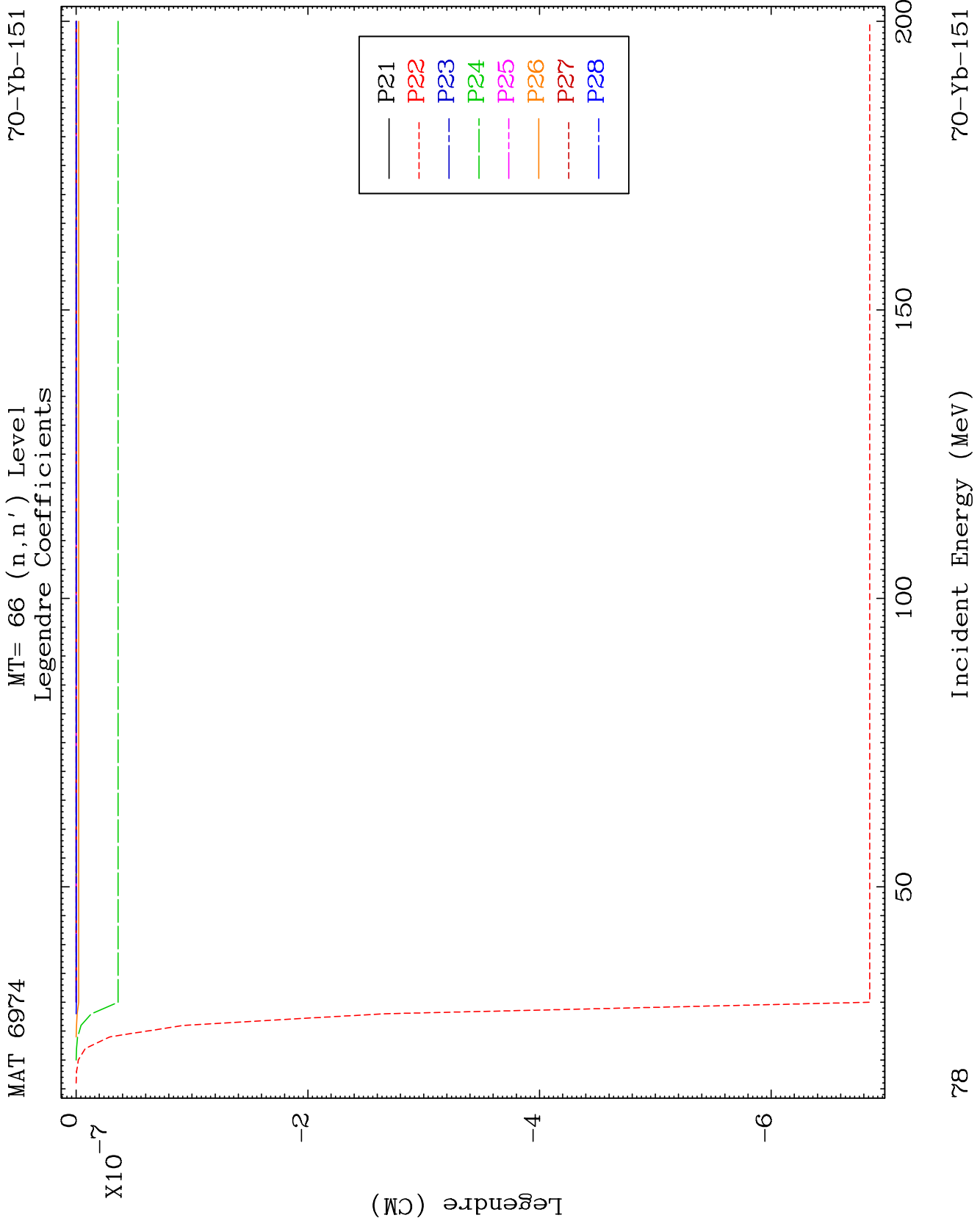
70-Yb-151



77

Incident Energy (MeV)

70-Yb-151

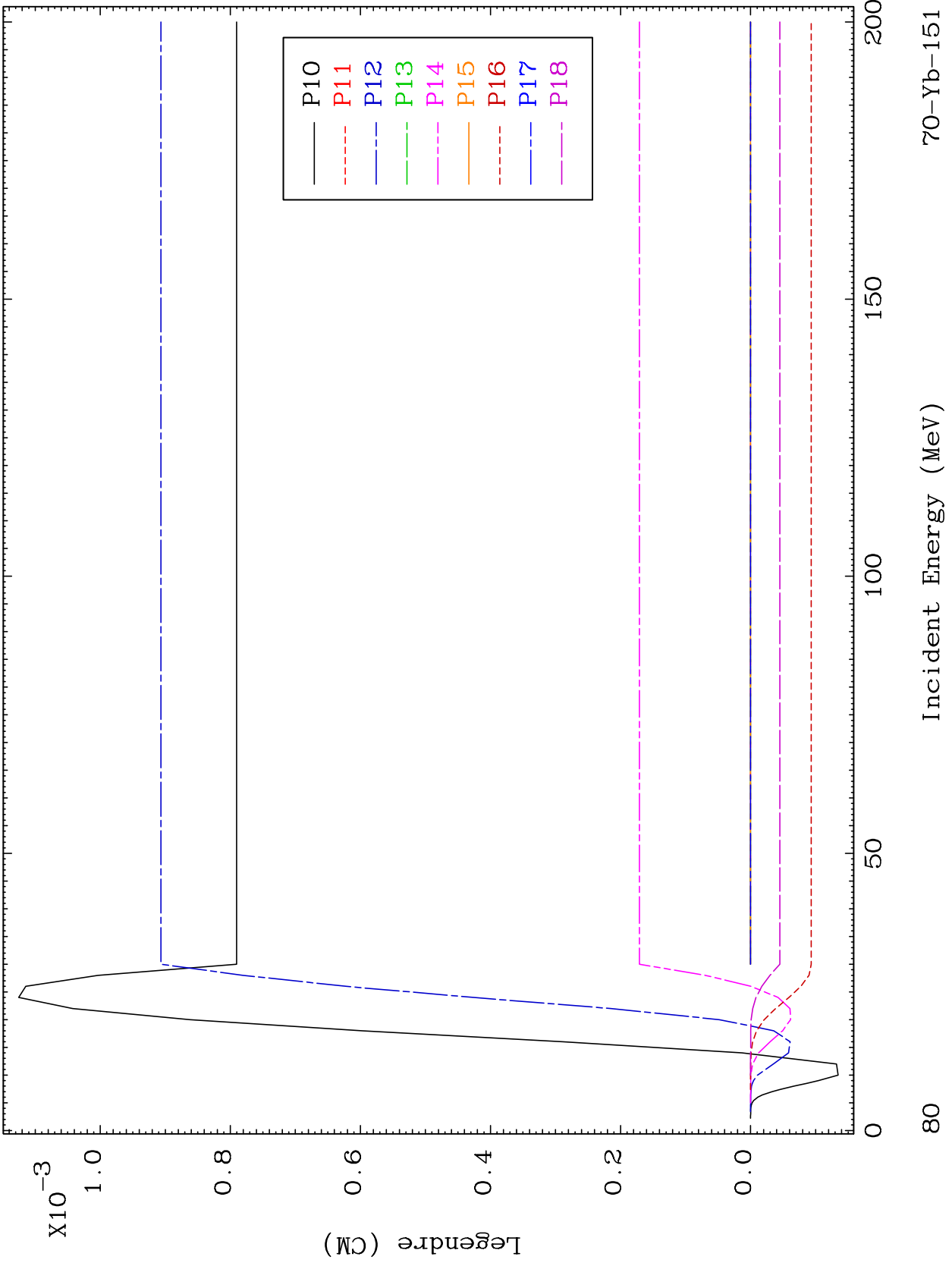


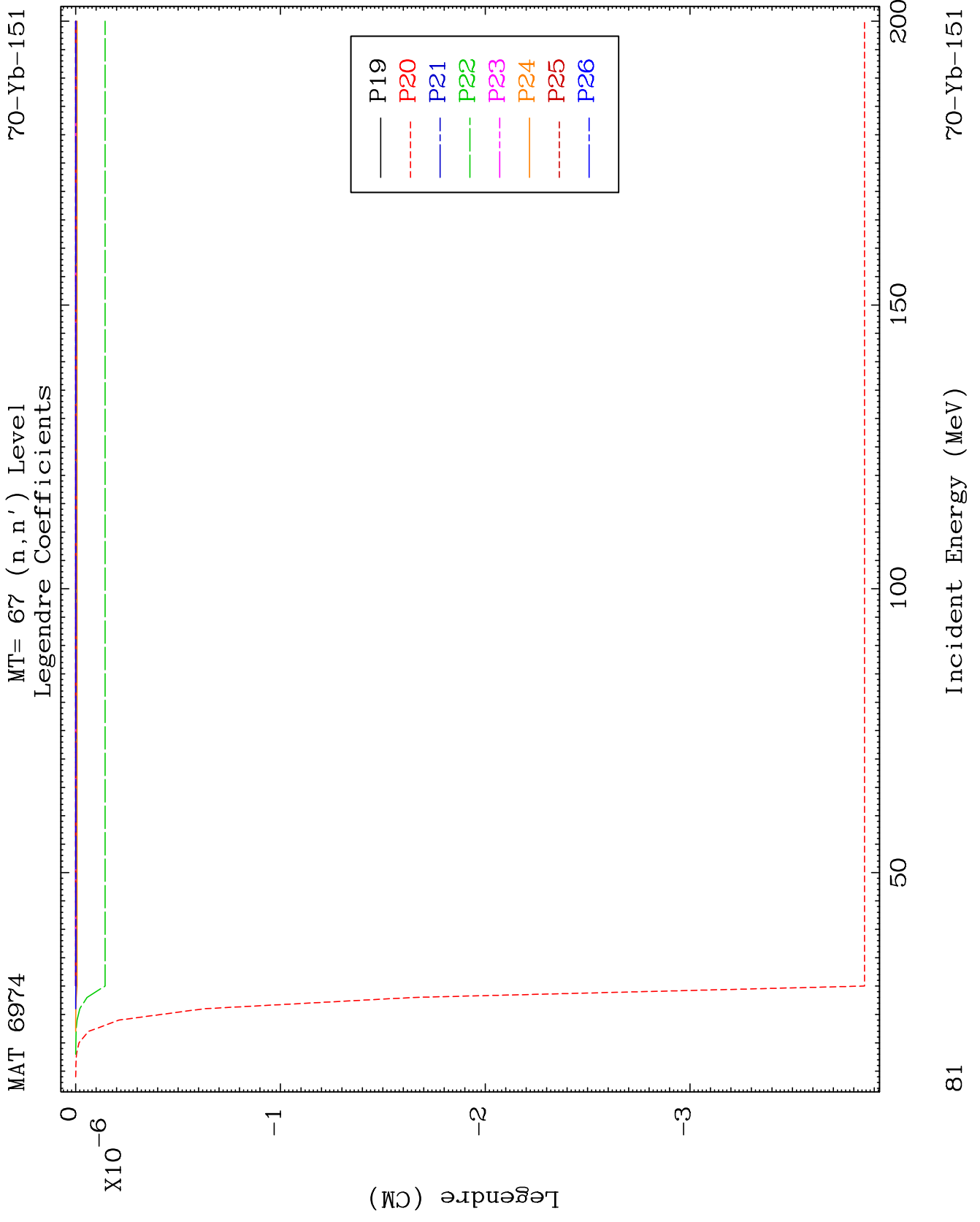


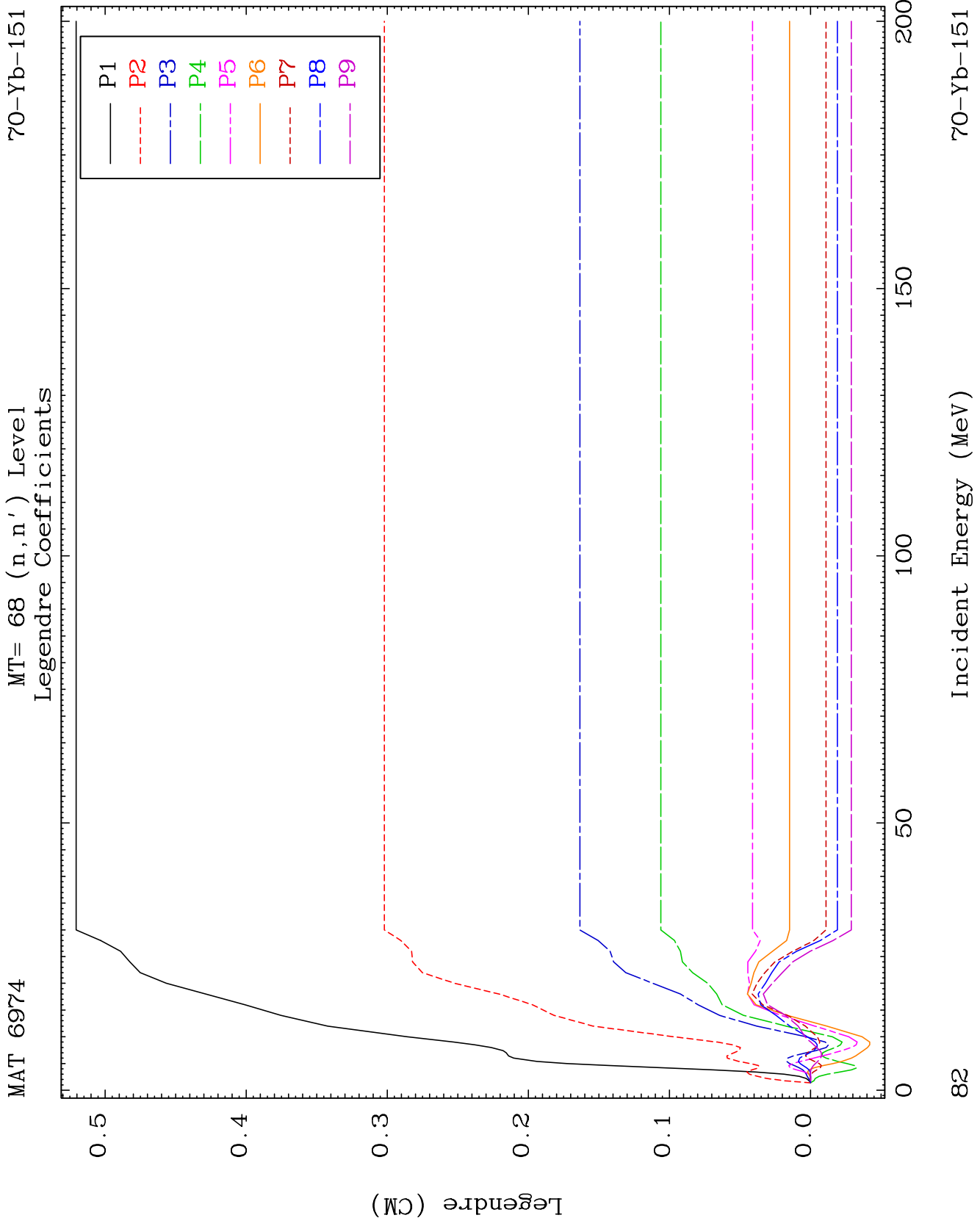
MAT 6974

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

70-Yb-151



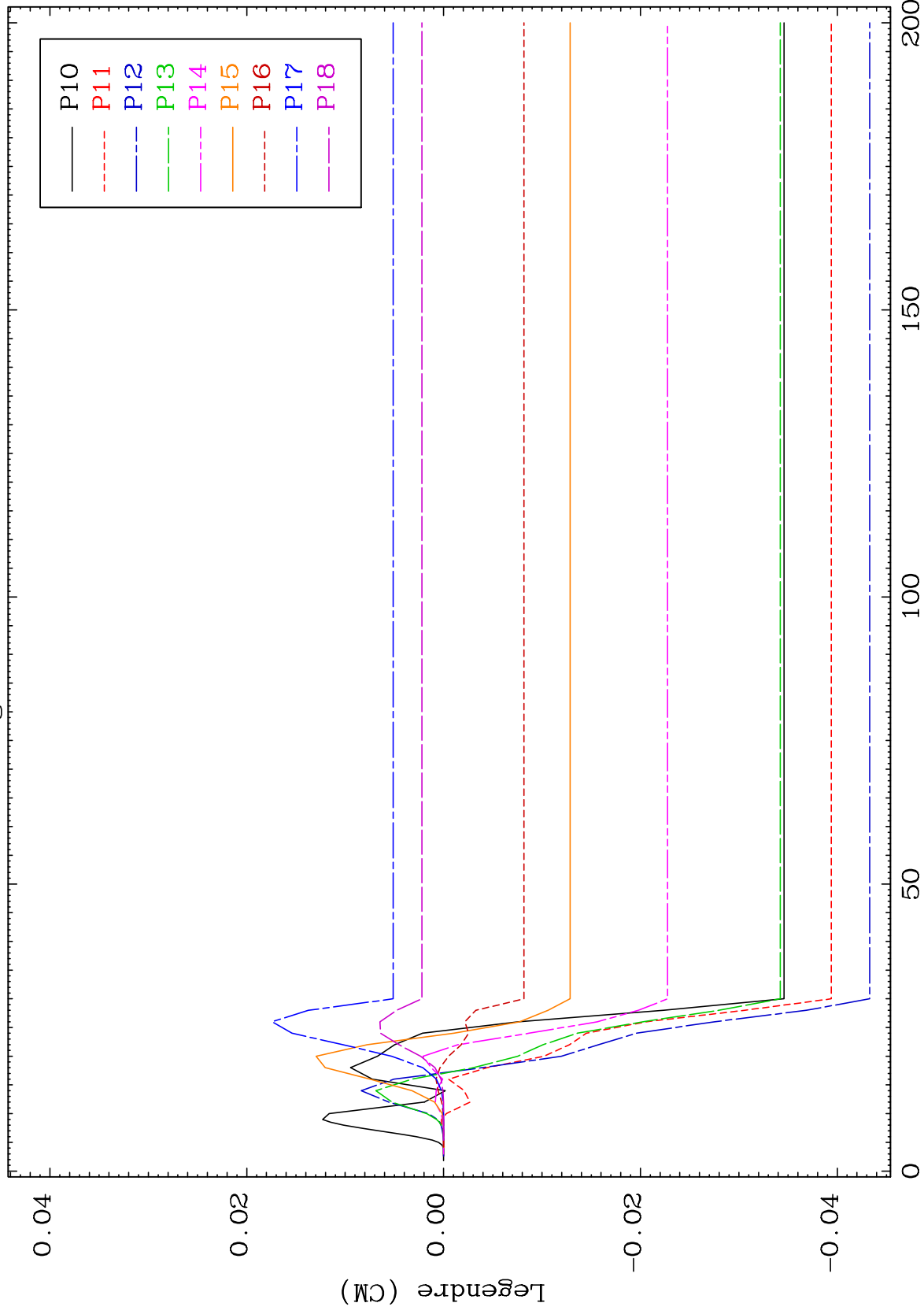




MAT 6974

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

70-Yb-151



83

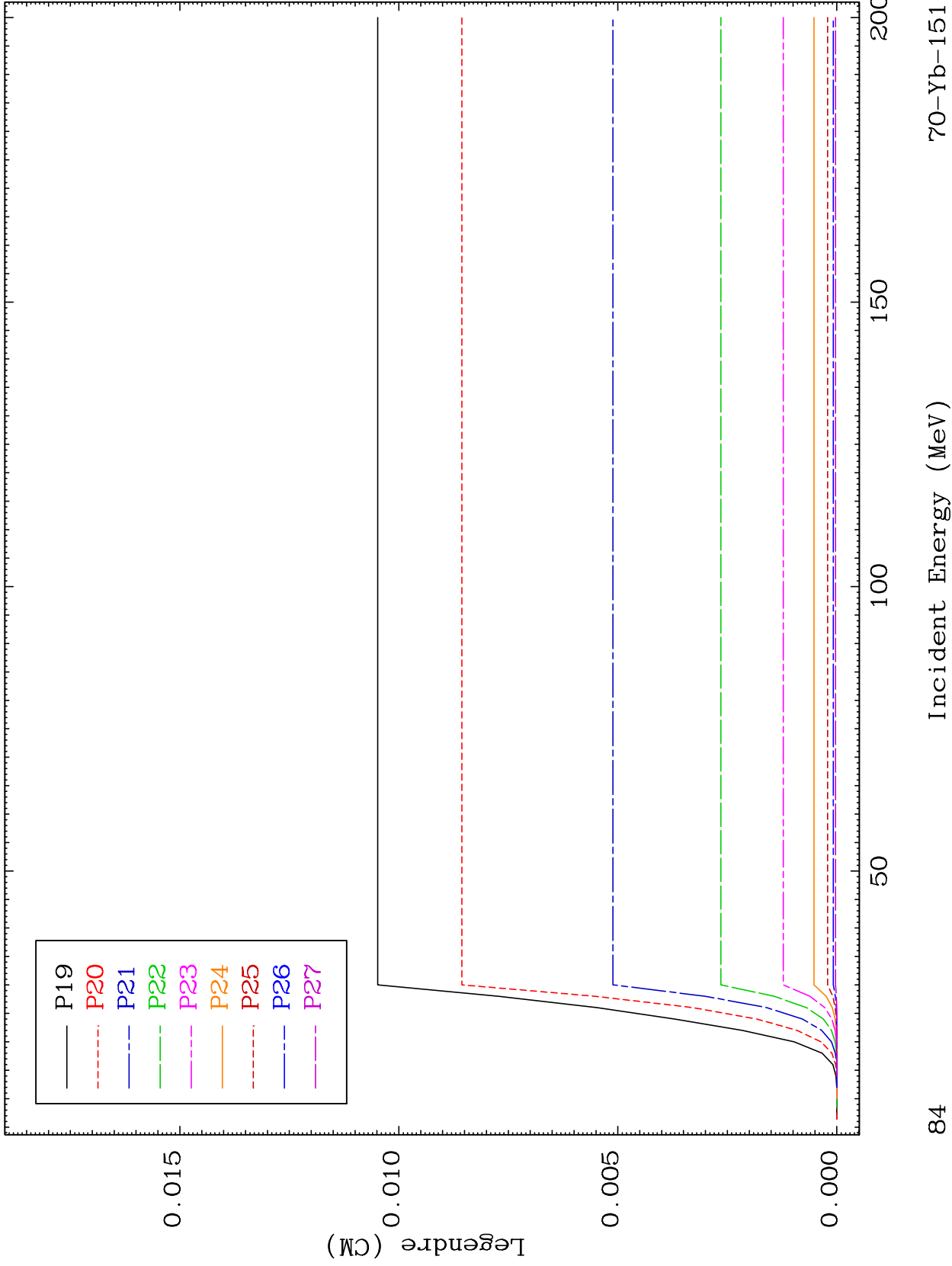
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



84

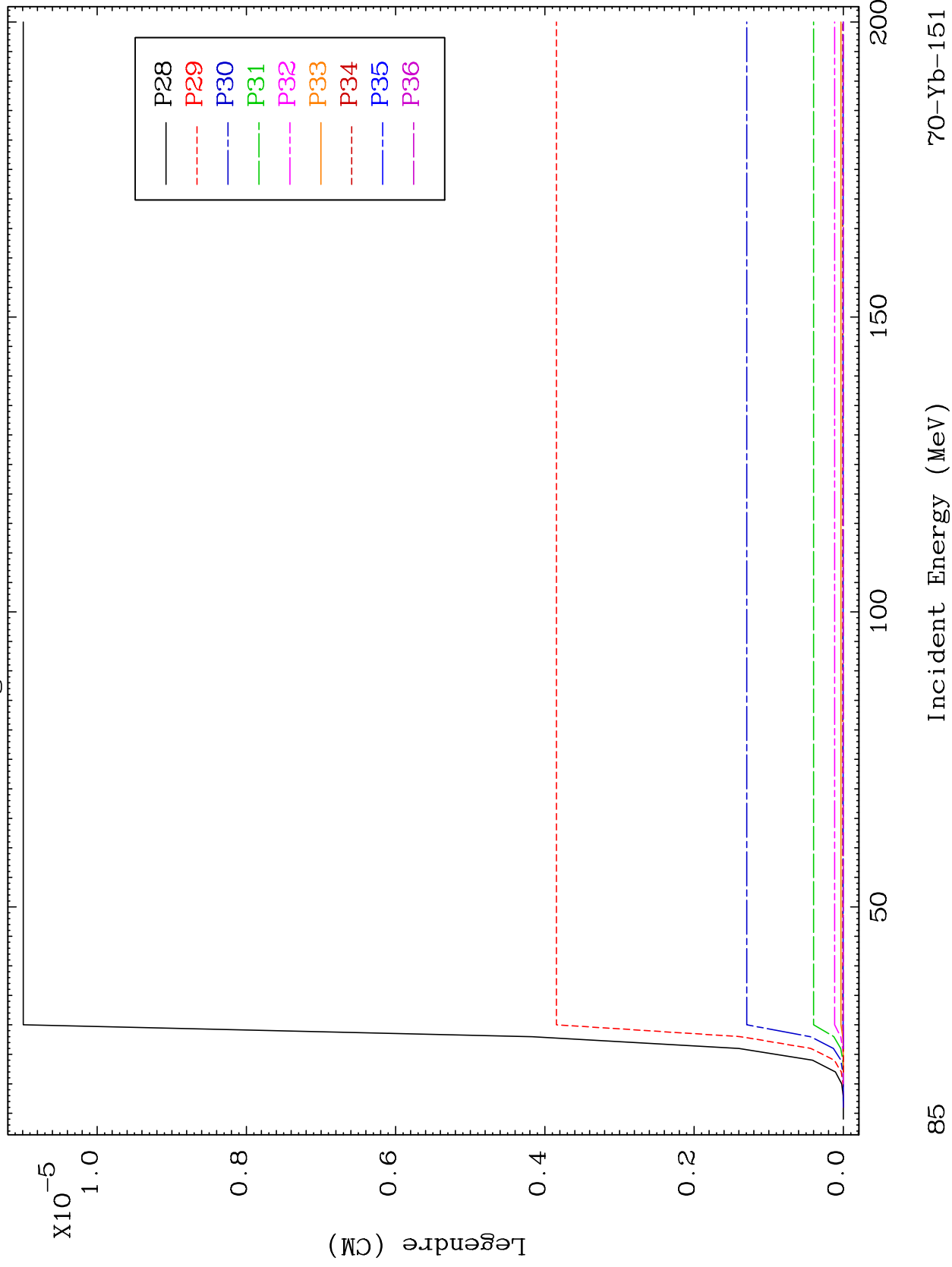
Incident Energy (MeV)

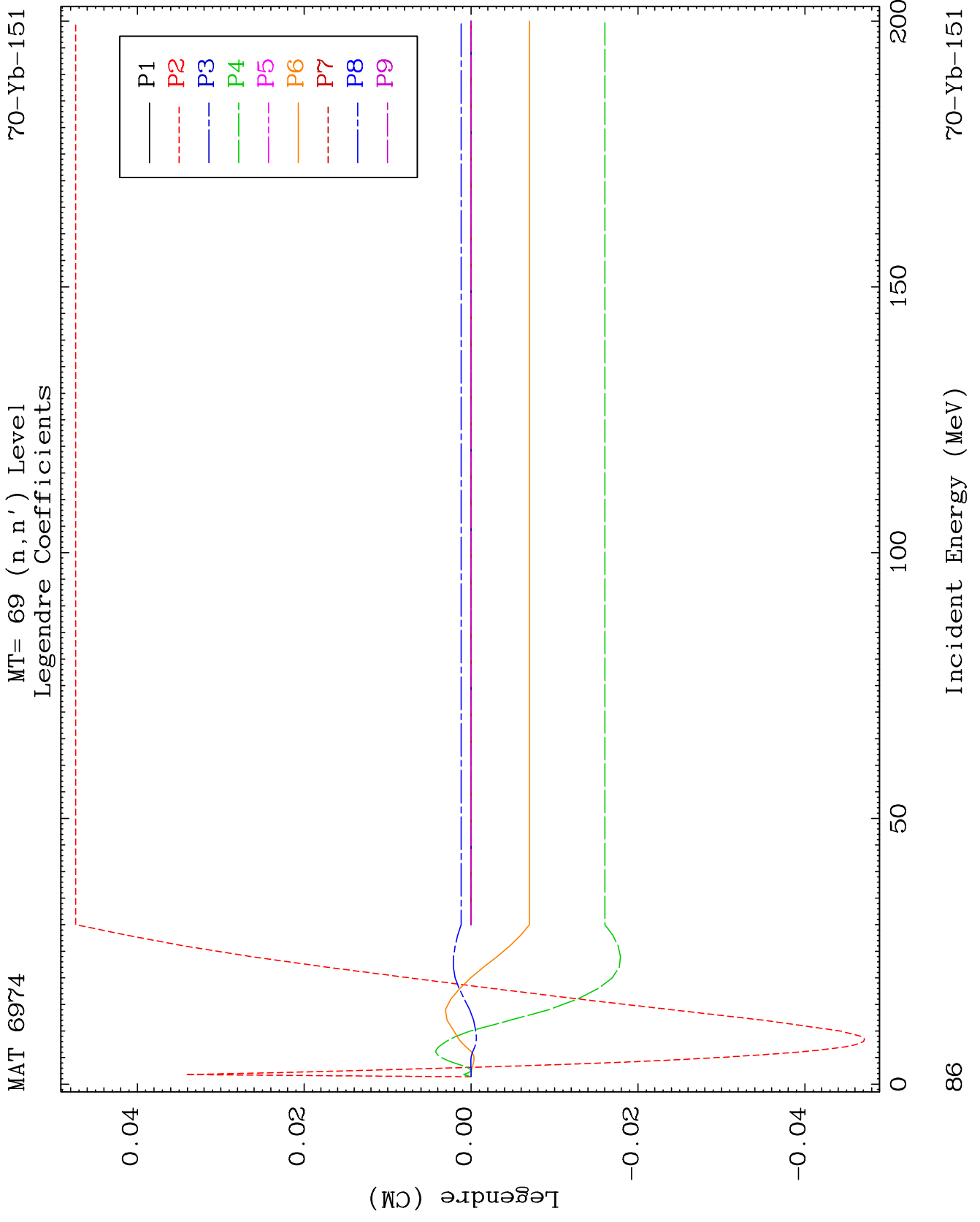
70-Yb-151

MAT 6974

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

70-Yb-151

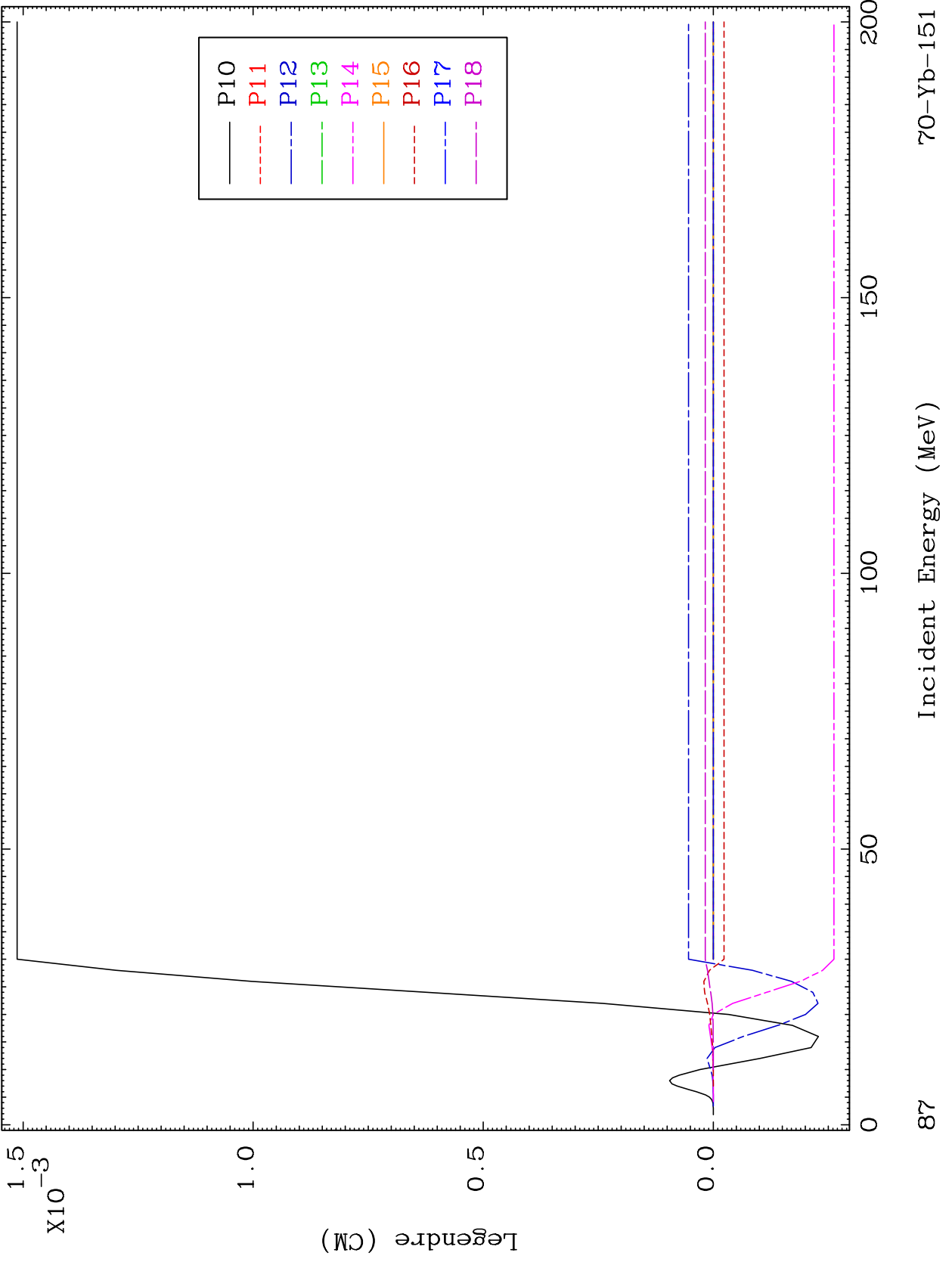




MAT 6974

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

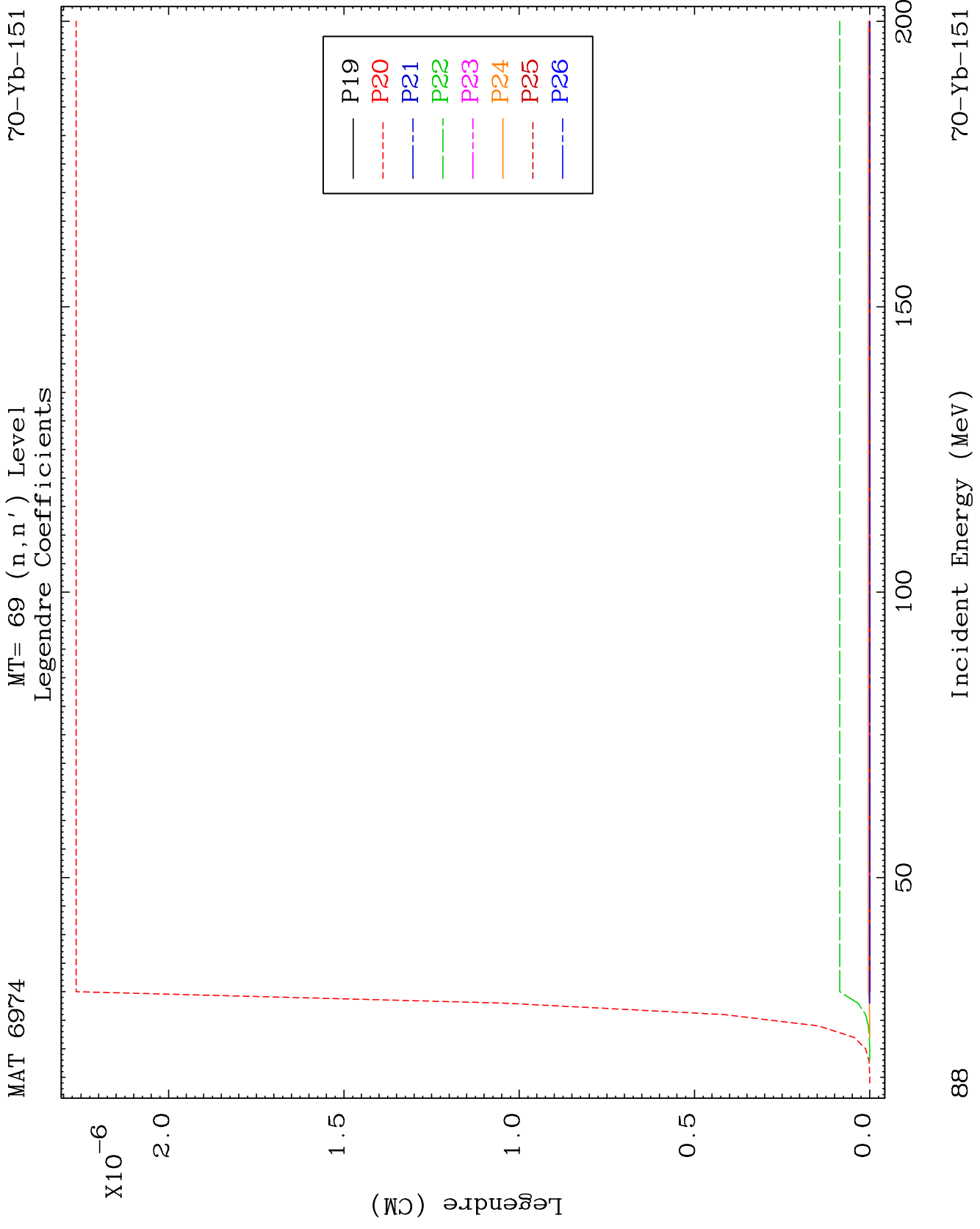
70-Yb-151



87

Incident Energy (MeV)

70-Yb-151

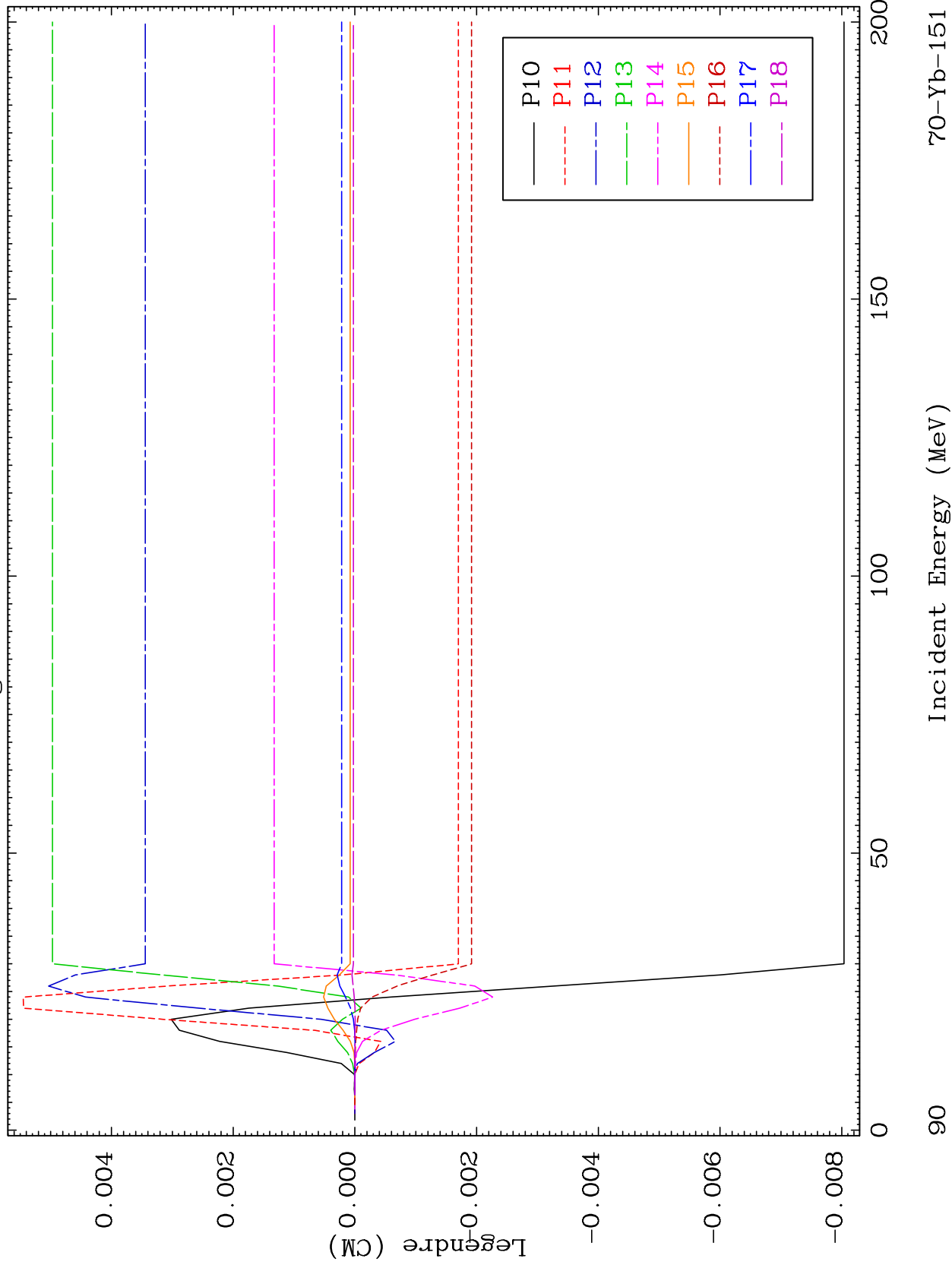




MAT 6974

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

70-Yb-151



70-Yb-151

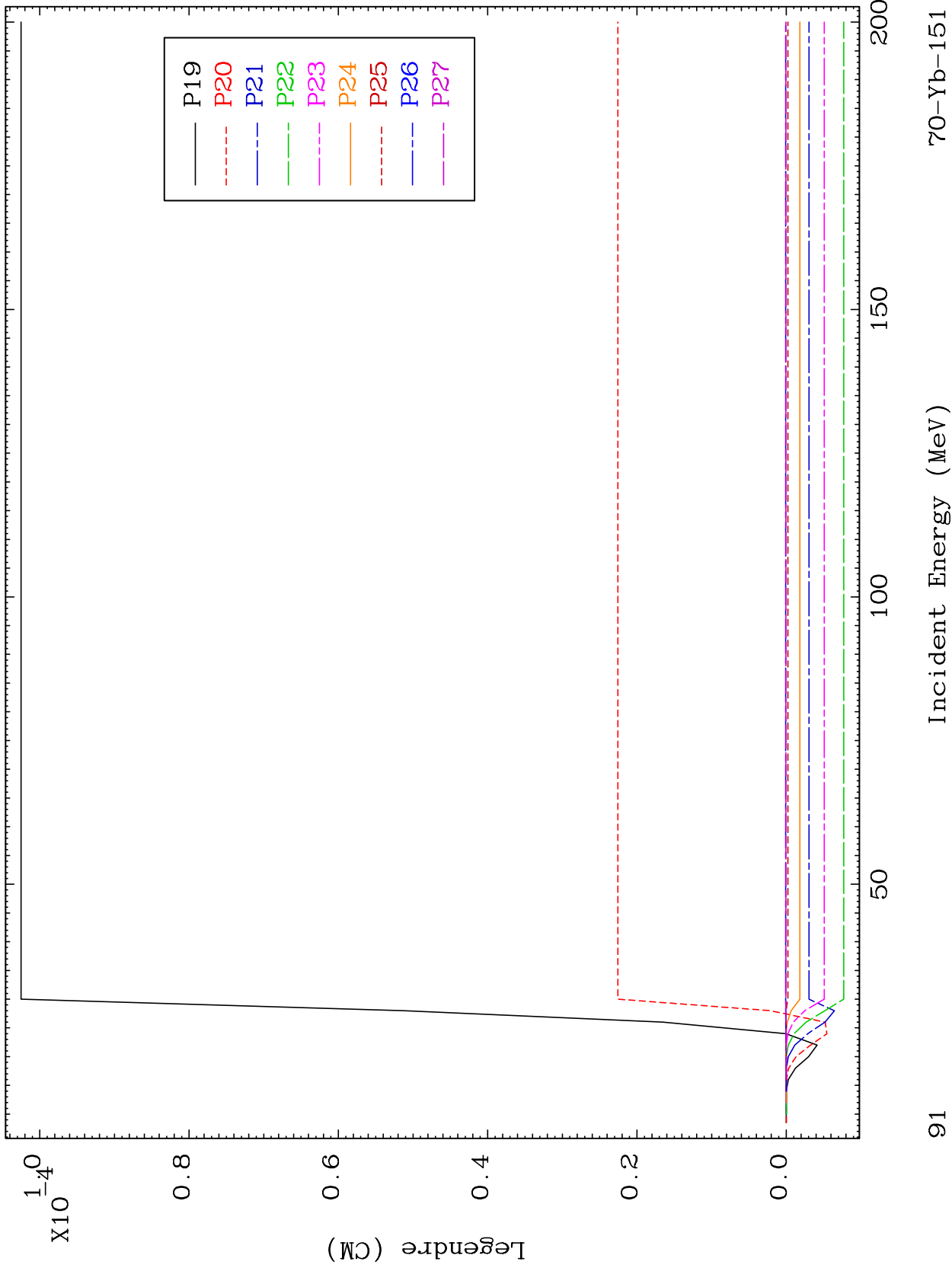
Incident Energy (MeV)

90

MAT 6974

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

70-Yb-151



91

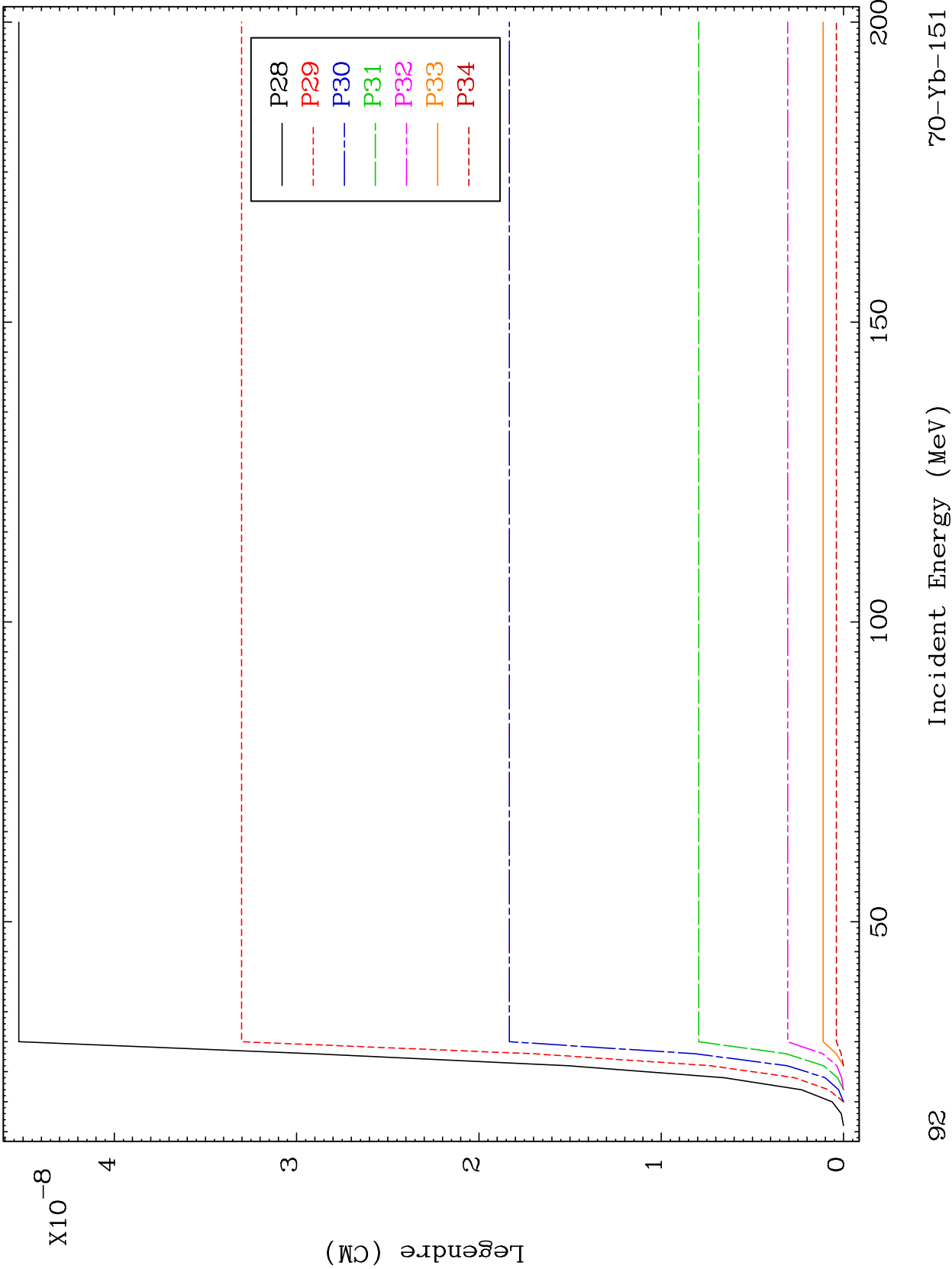
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

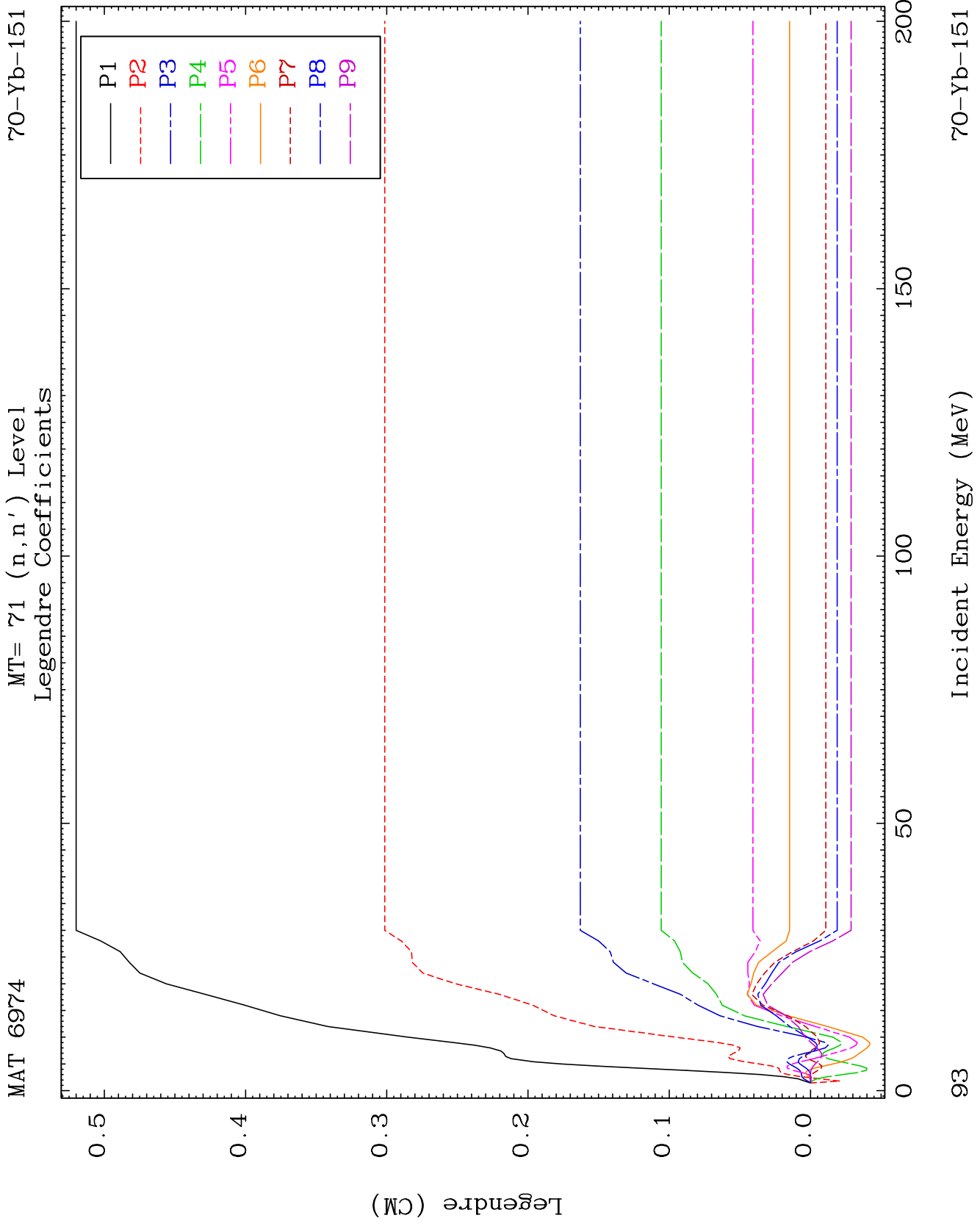
70-Yb-151



92

Incident Energy (MeV)

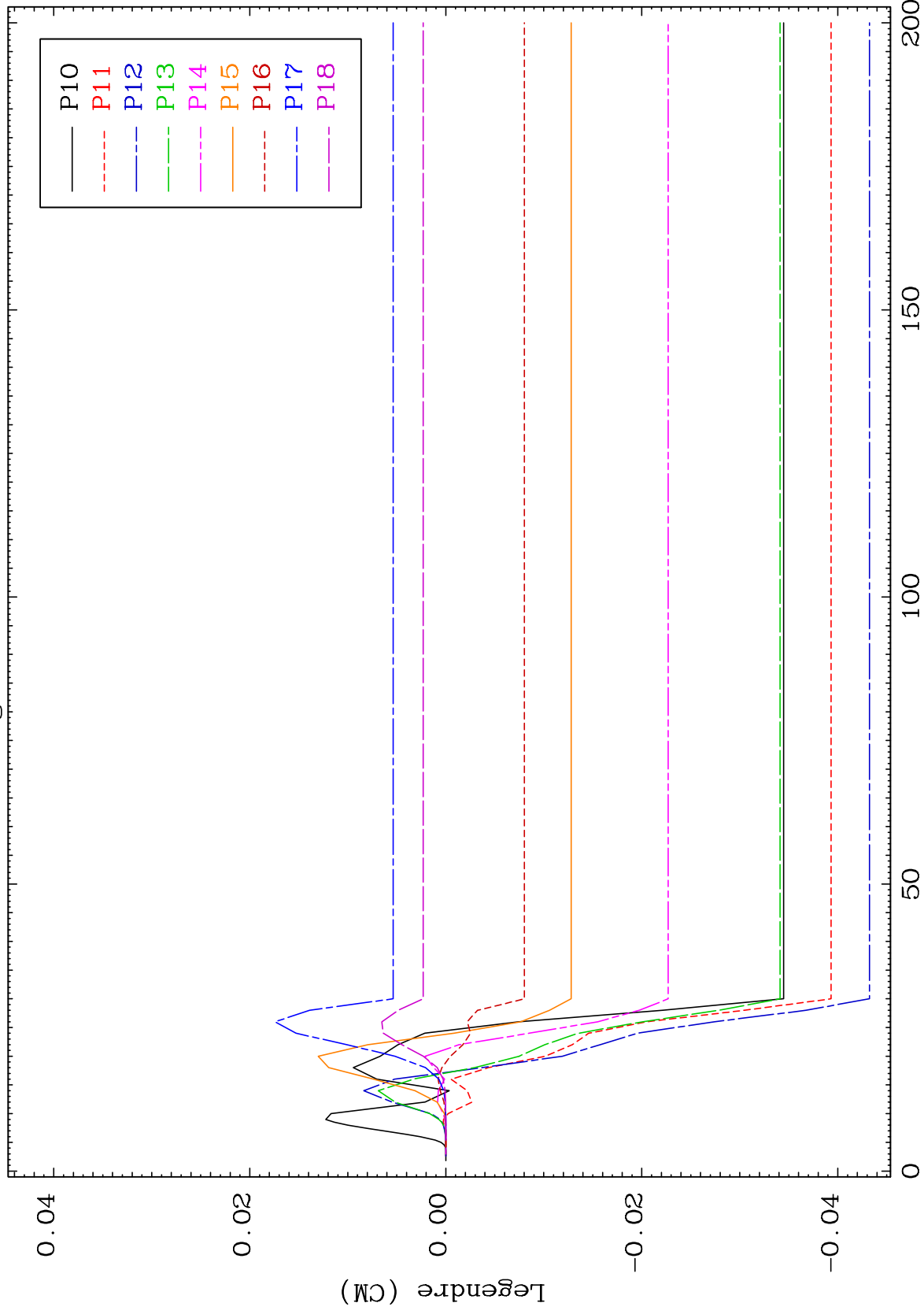
70-Yb-151



MAT 6974

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

70-Yb-151



94

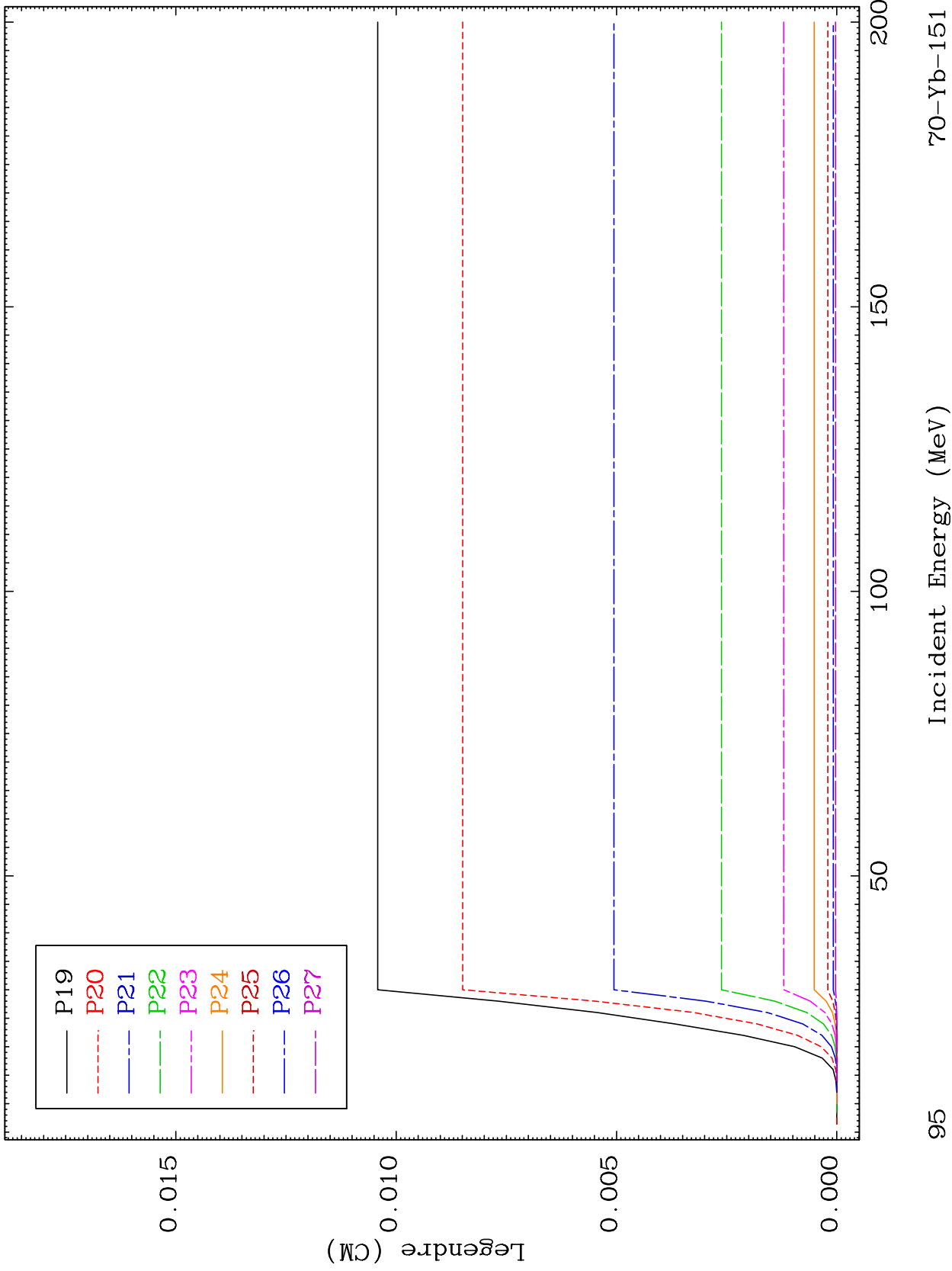
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



95

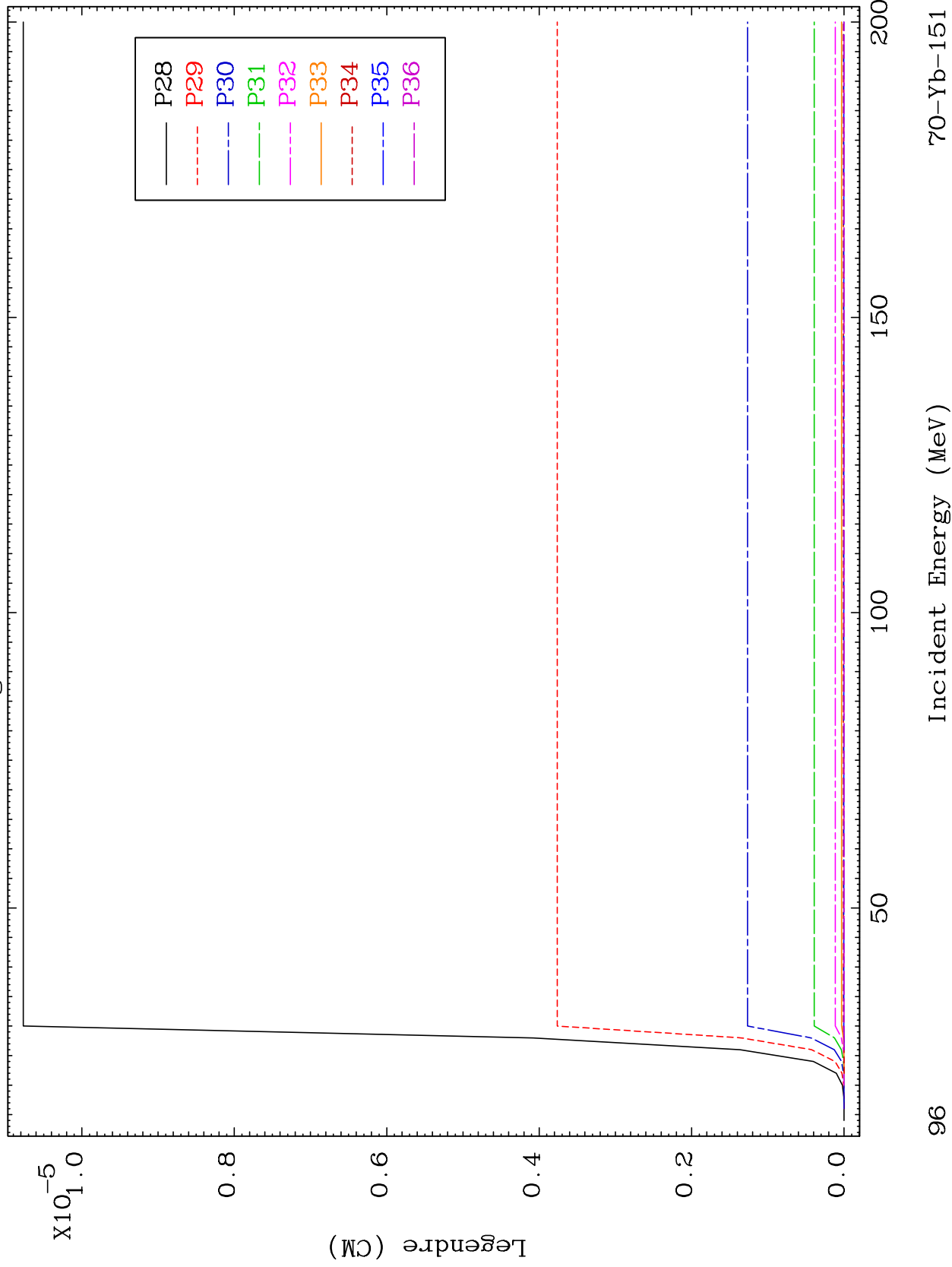
Incident Energy (MeV)

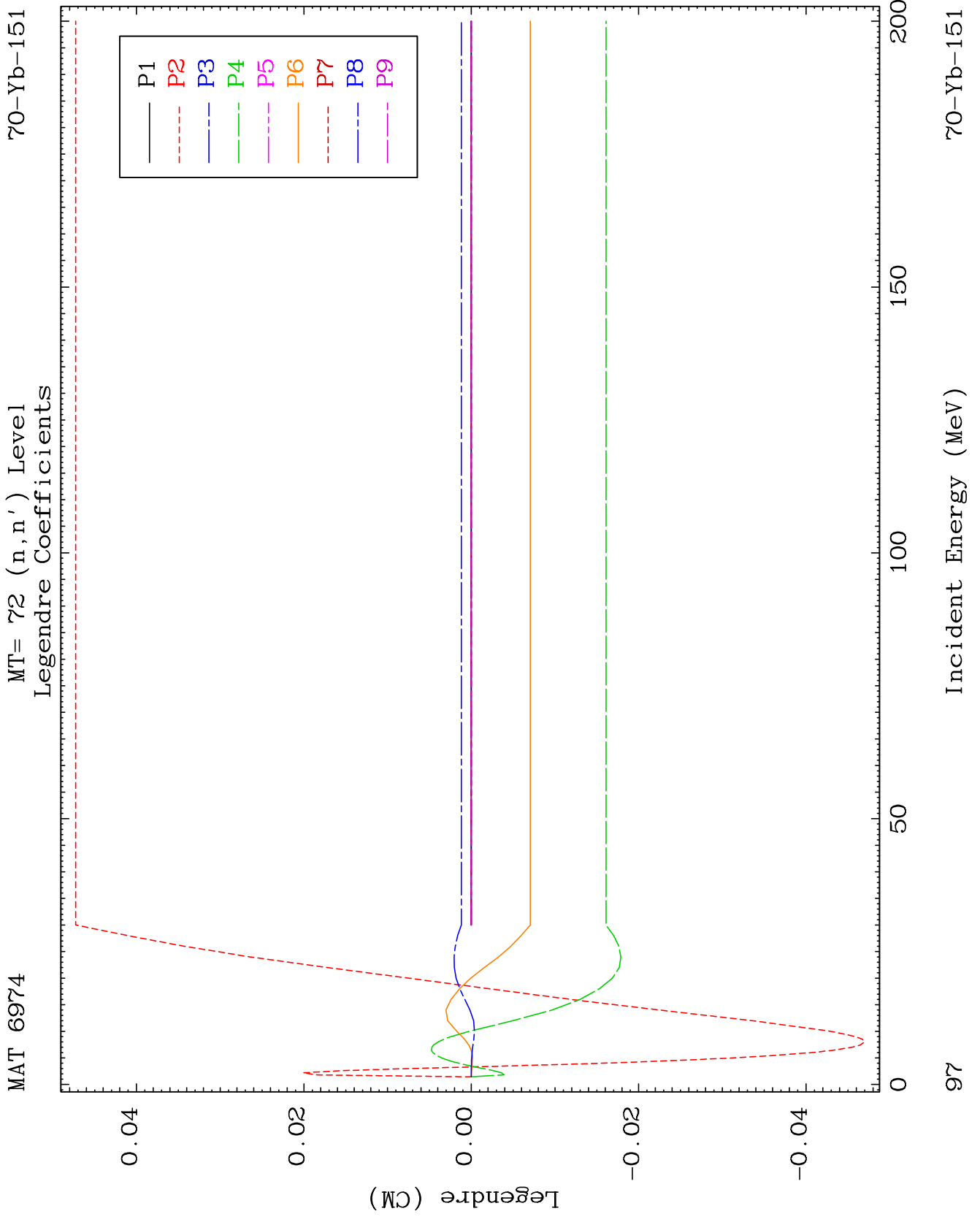
70-Yb-151

MAT 6974

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

70-Yb-151

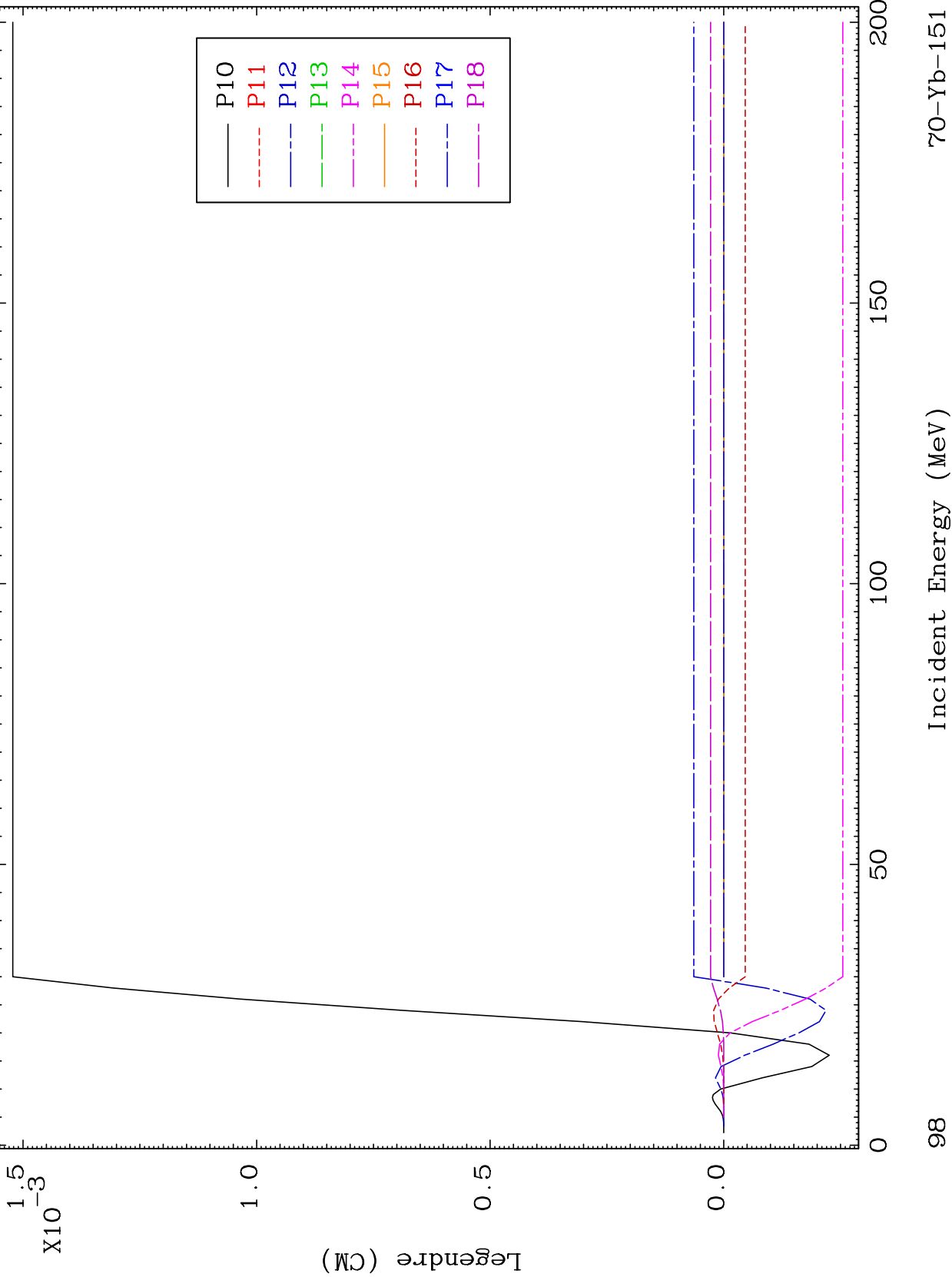




MAT 6974

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

70-Yb-151



98

Incident Energy (MeV)

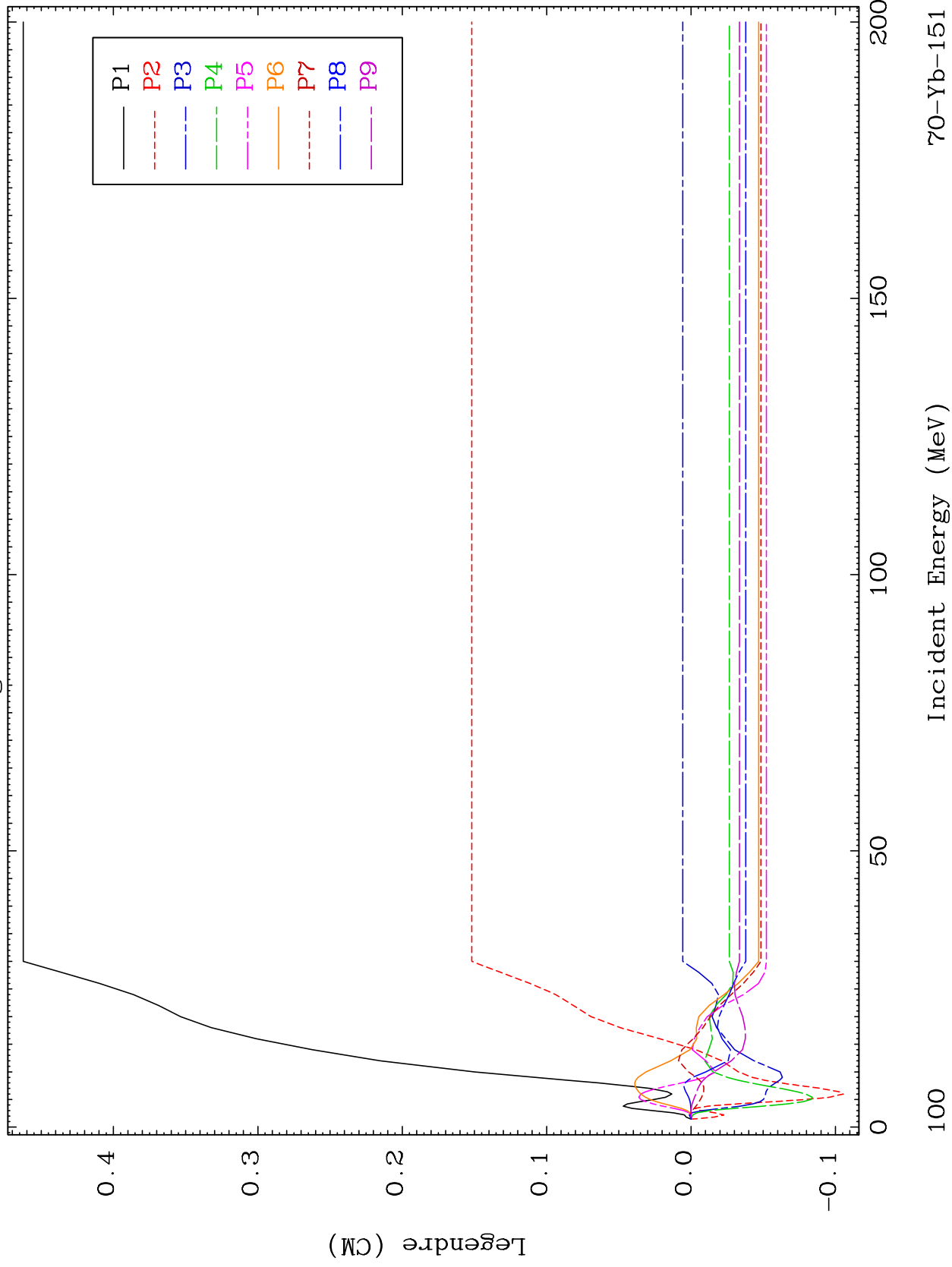
70-Yb-151



MAT 6974

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

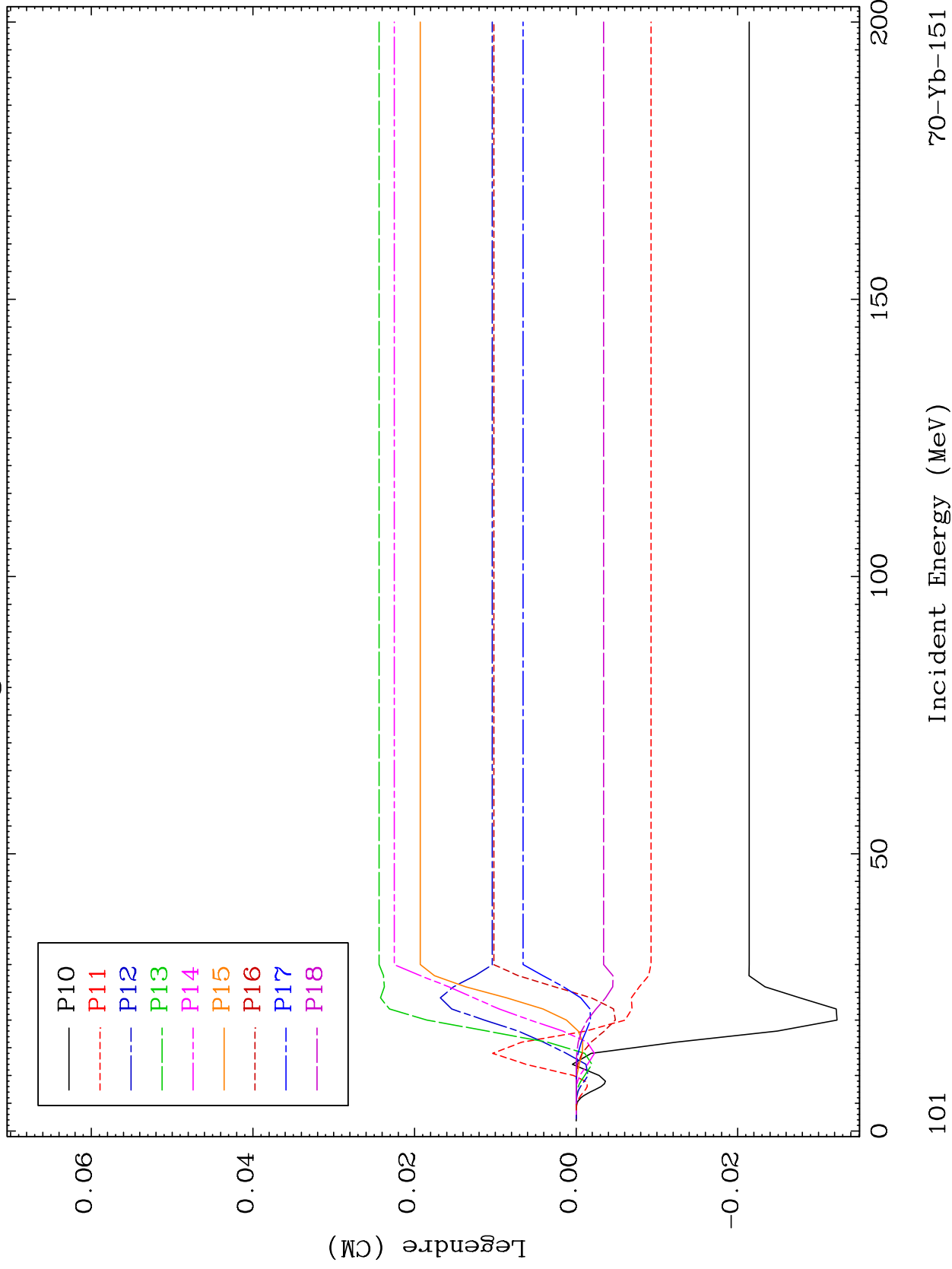
70-Yb-151



MAT 6974

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

70-Yb-151



101

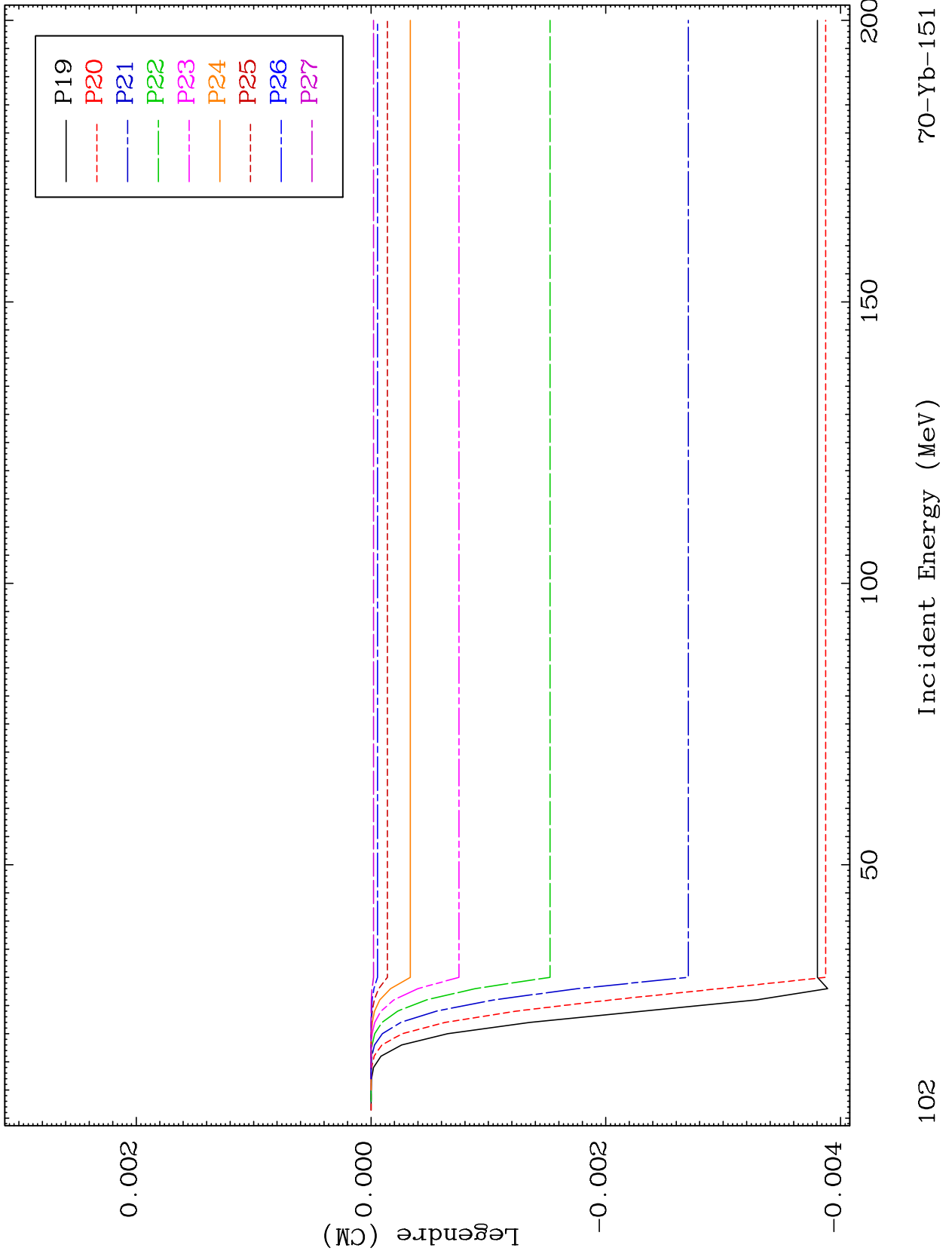
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

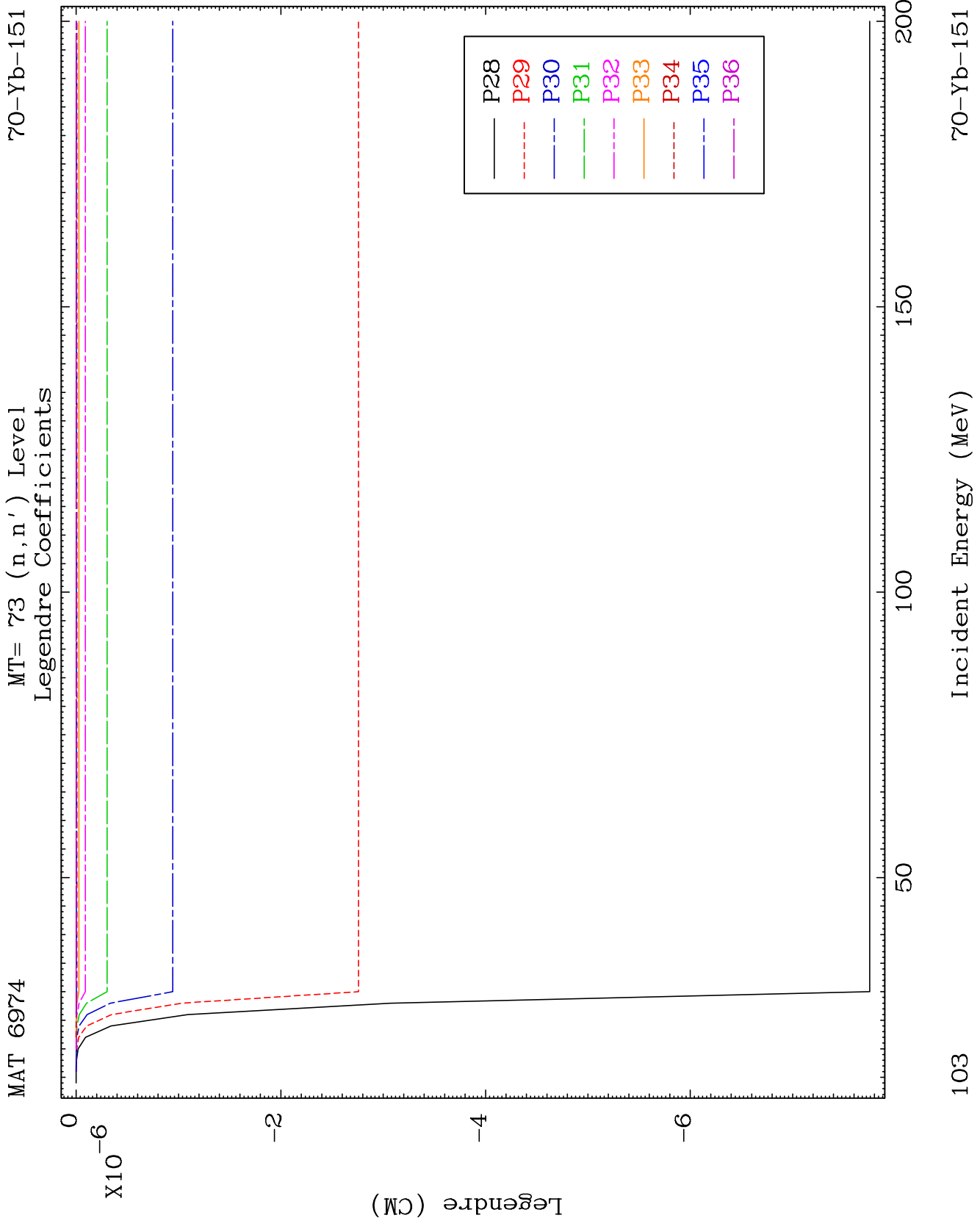
70-Yb-151

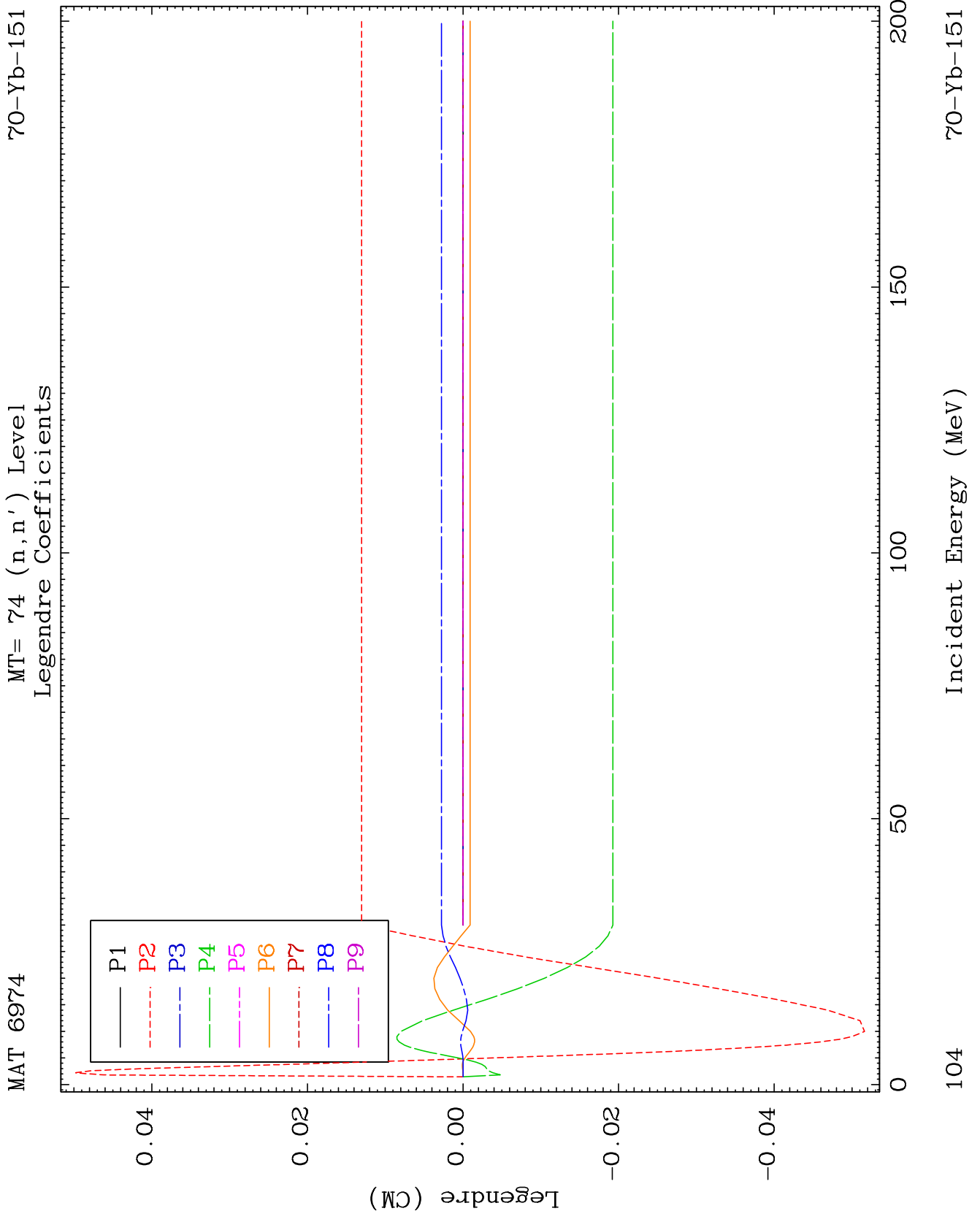


102

Incident Energy (MeV)

70-Yb-151

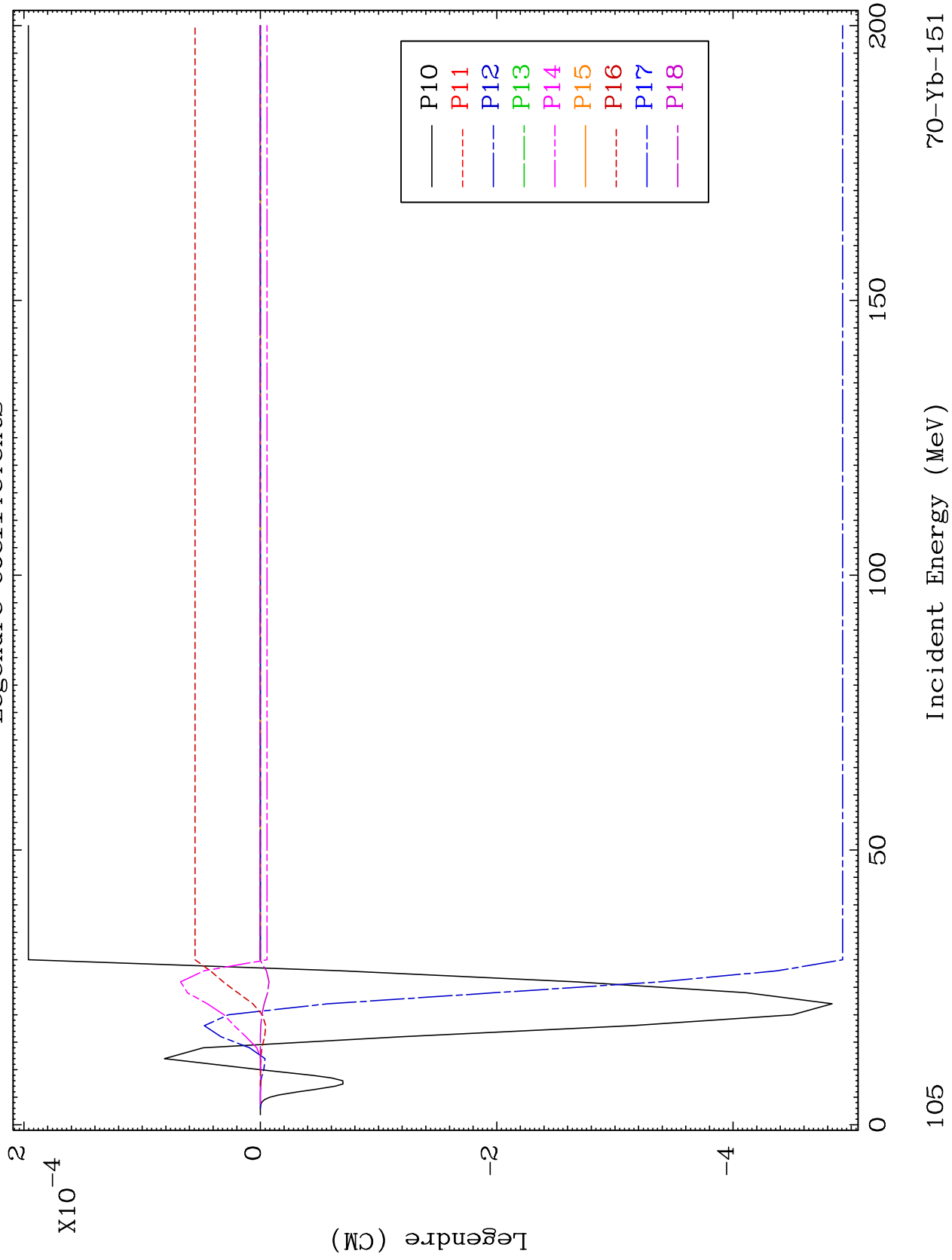




MAT 6974

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

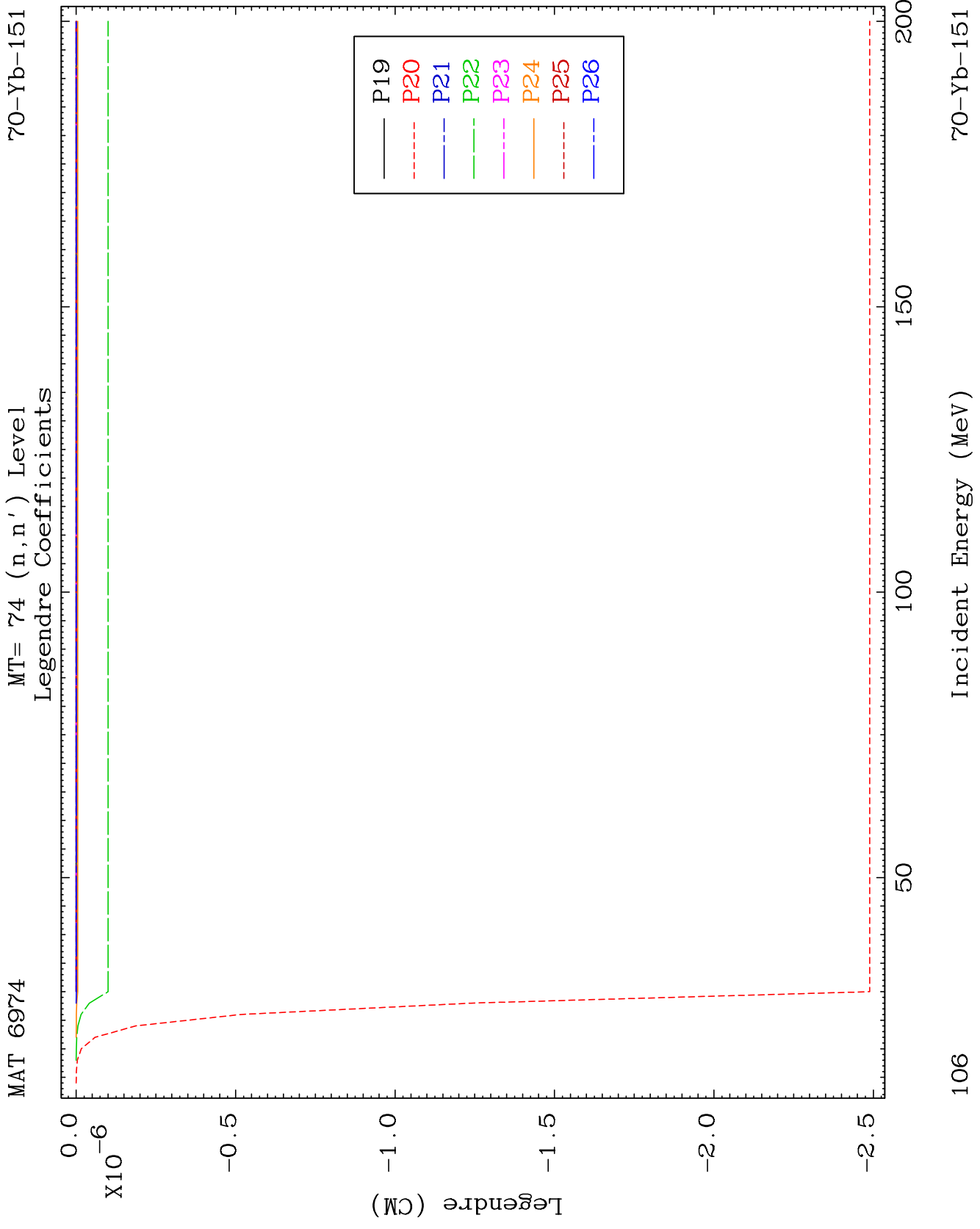
70-Yb-151



70-Yb-151

Incident Energy (MeV)

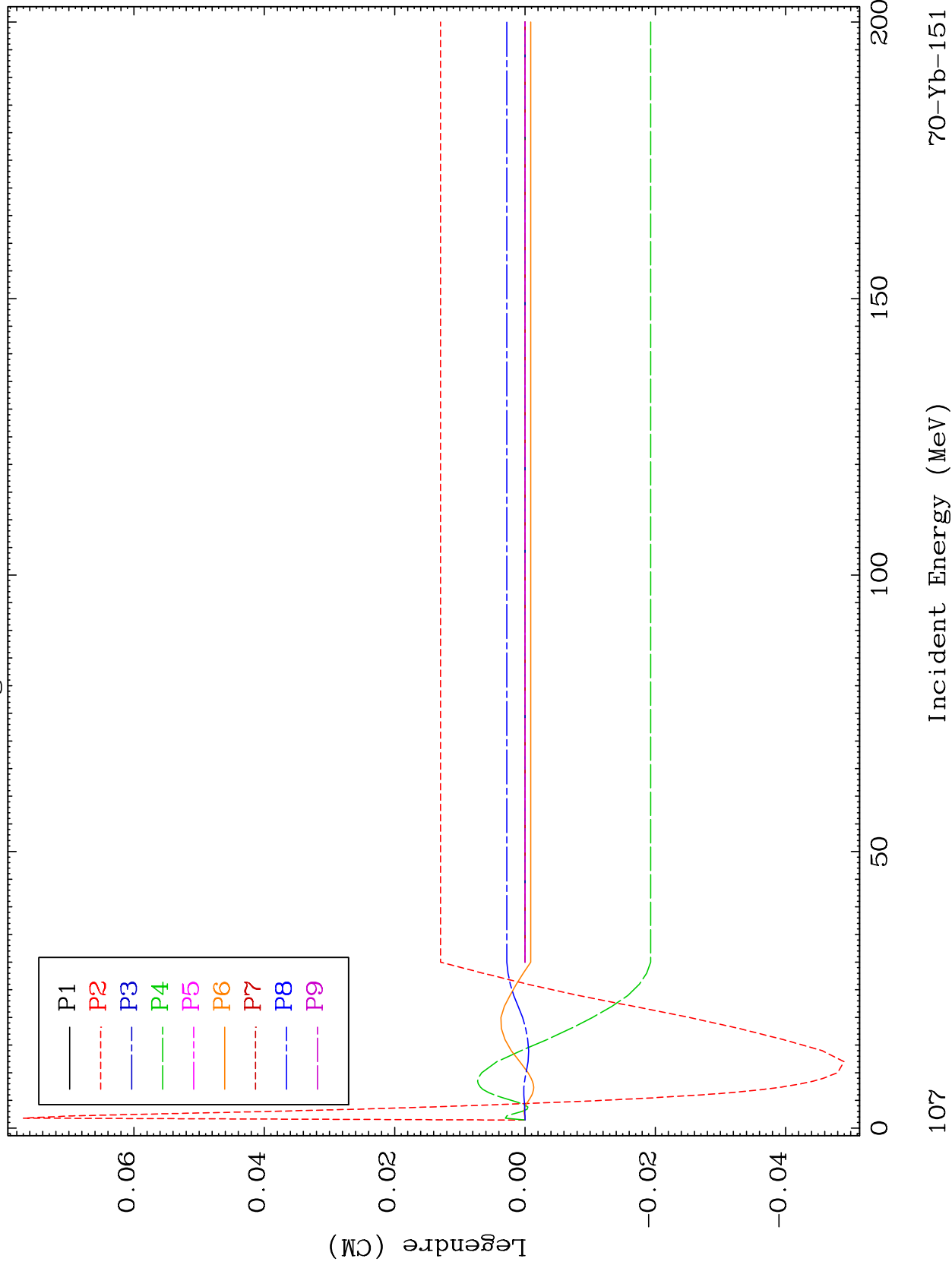
105



MAT 6974

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

70-Yb-151



70-Yb-151

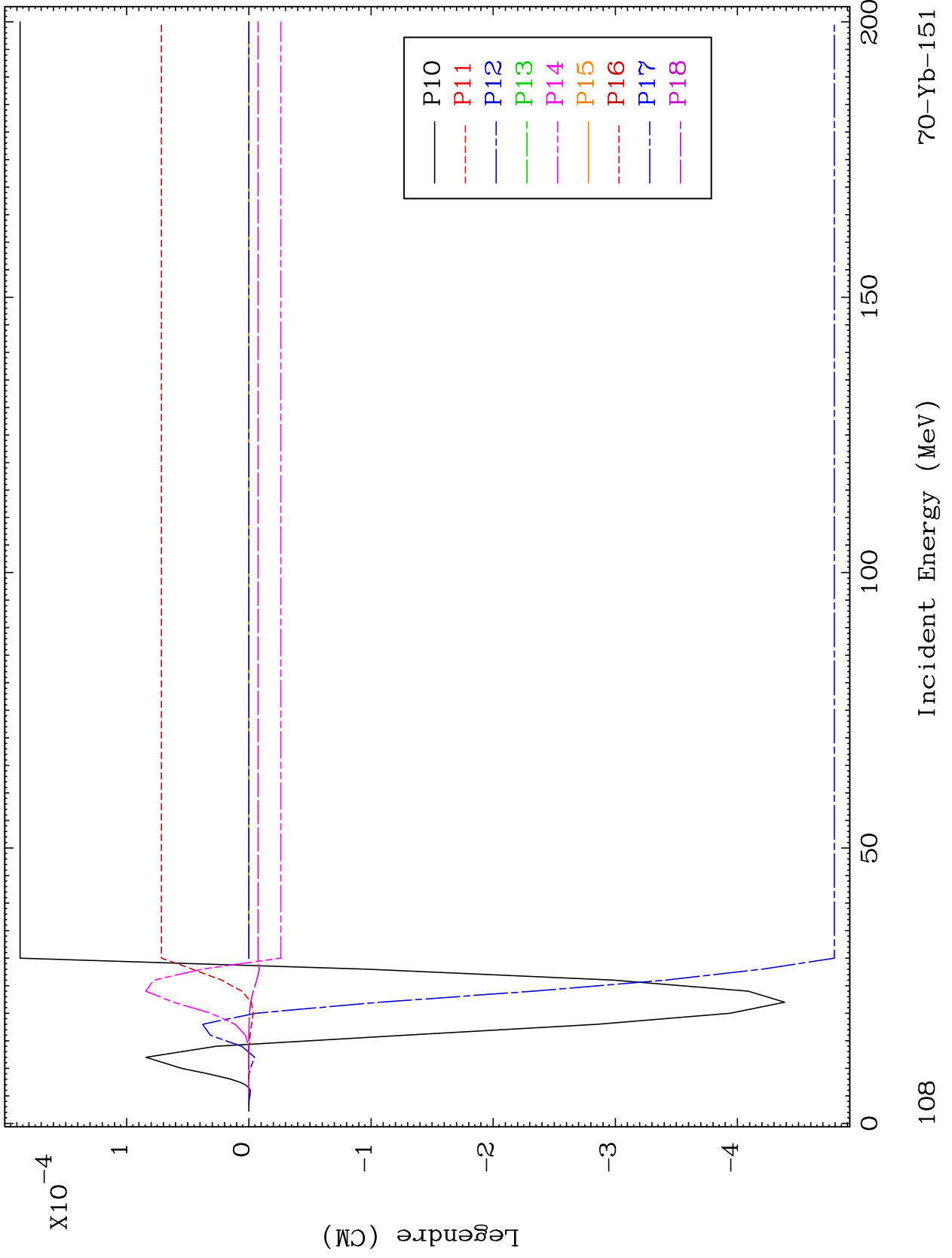
Incident Energy (MeV)

107

MAT 6974

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

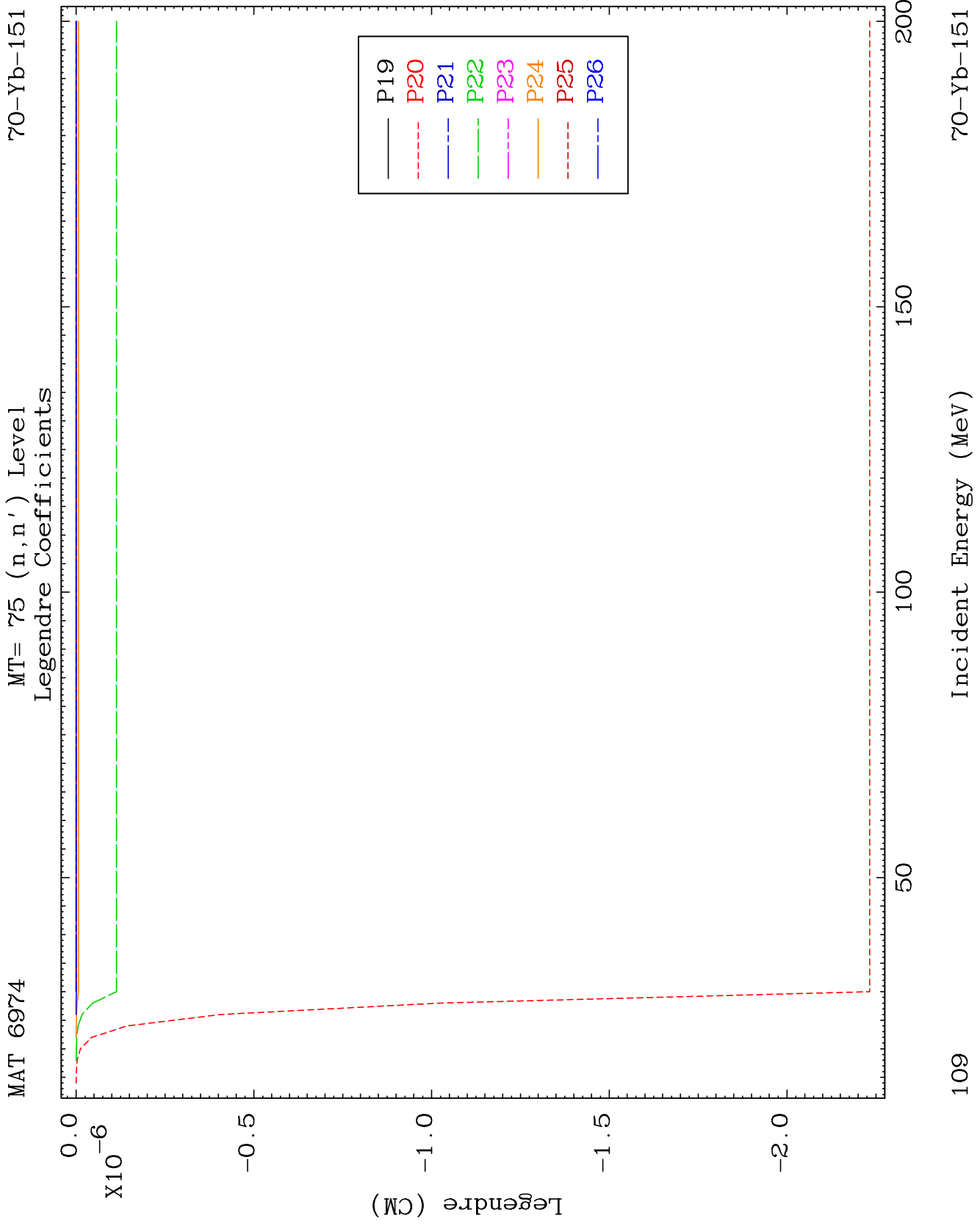
70-Yb-151



108

Incident Energy (MeV)

70-Yb-151

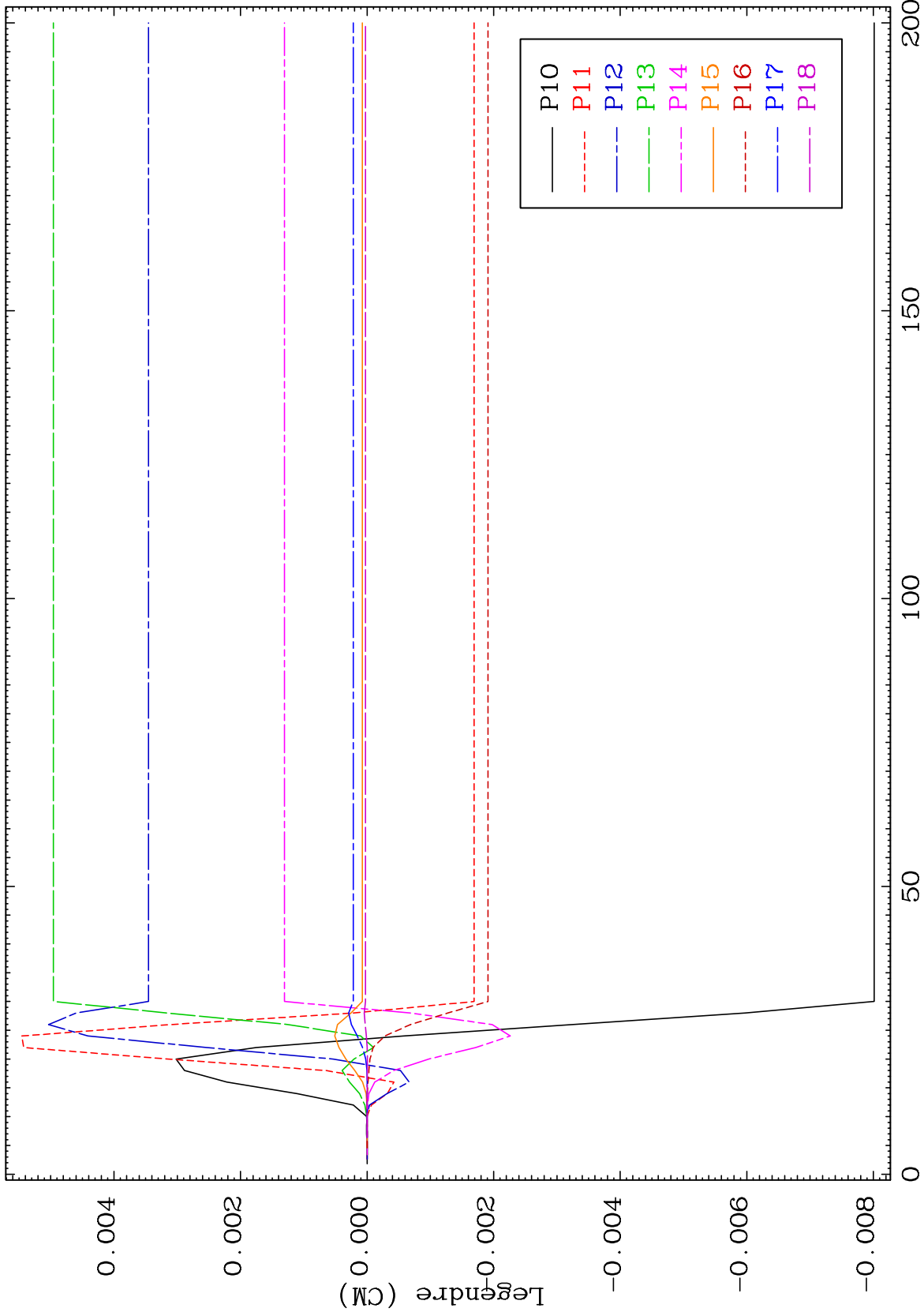




MAT 6974

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

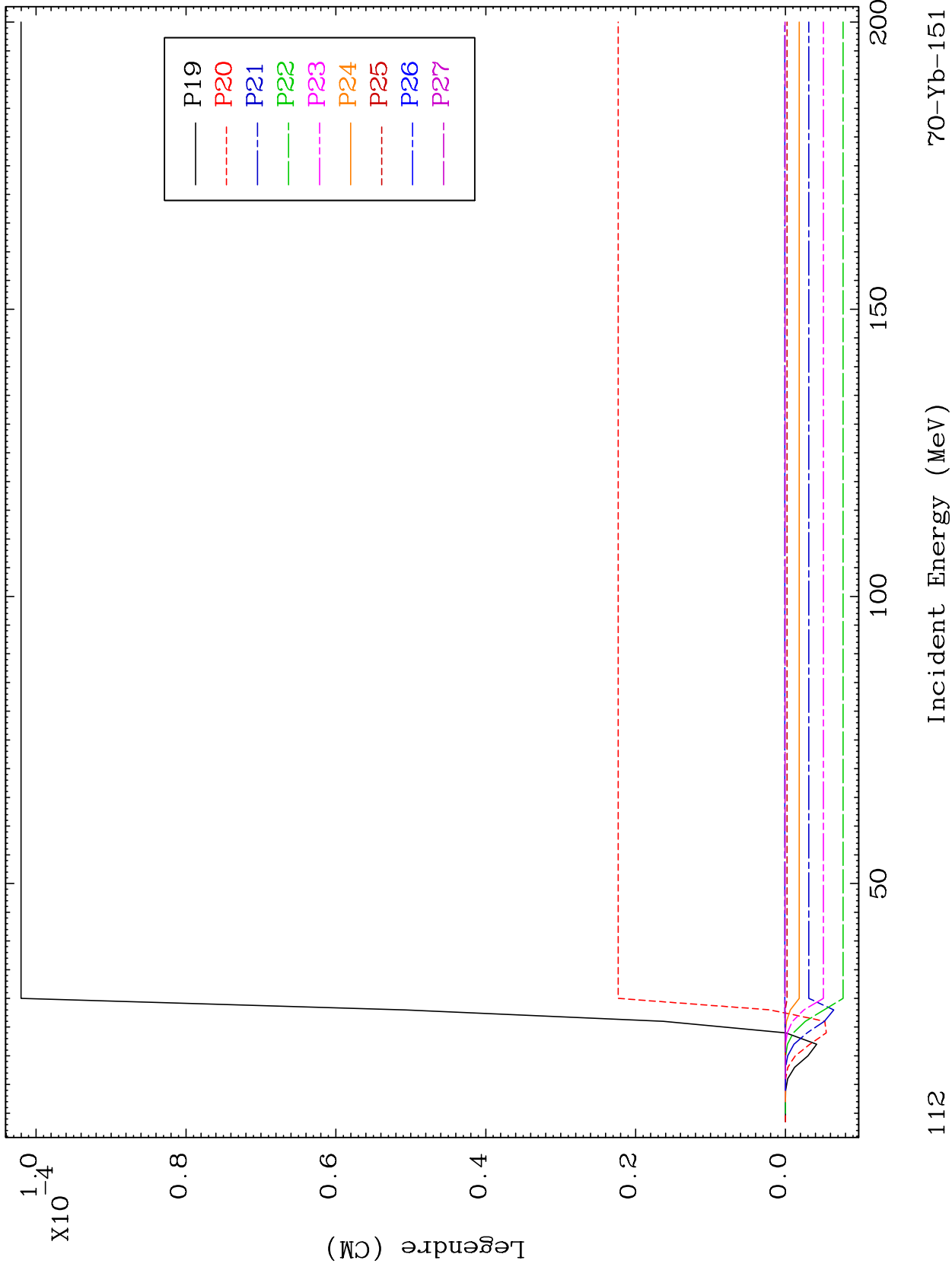
70-Yb-151



MAT 6974

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

70-Yb-151



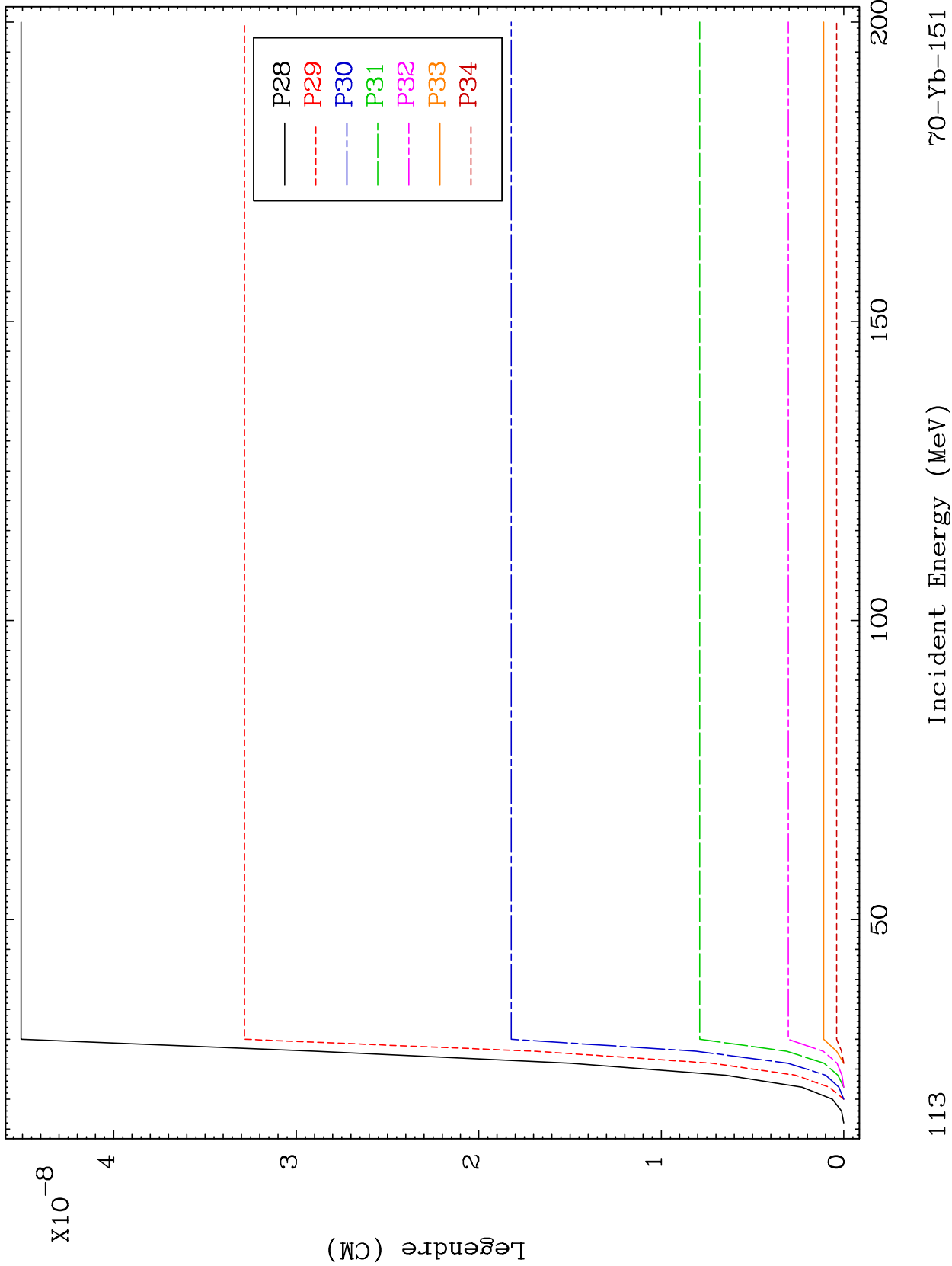
112

70-Yb-151

MAT 6974

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

70-Yb-151



113

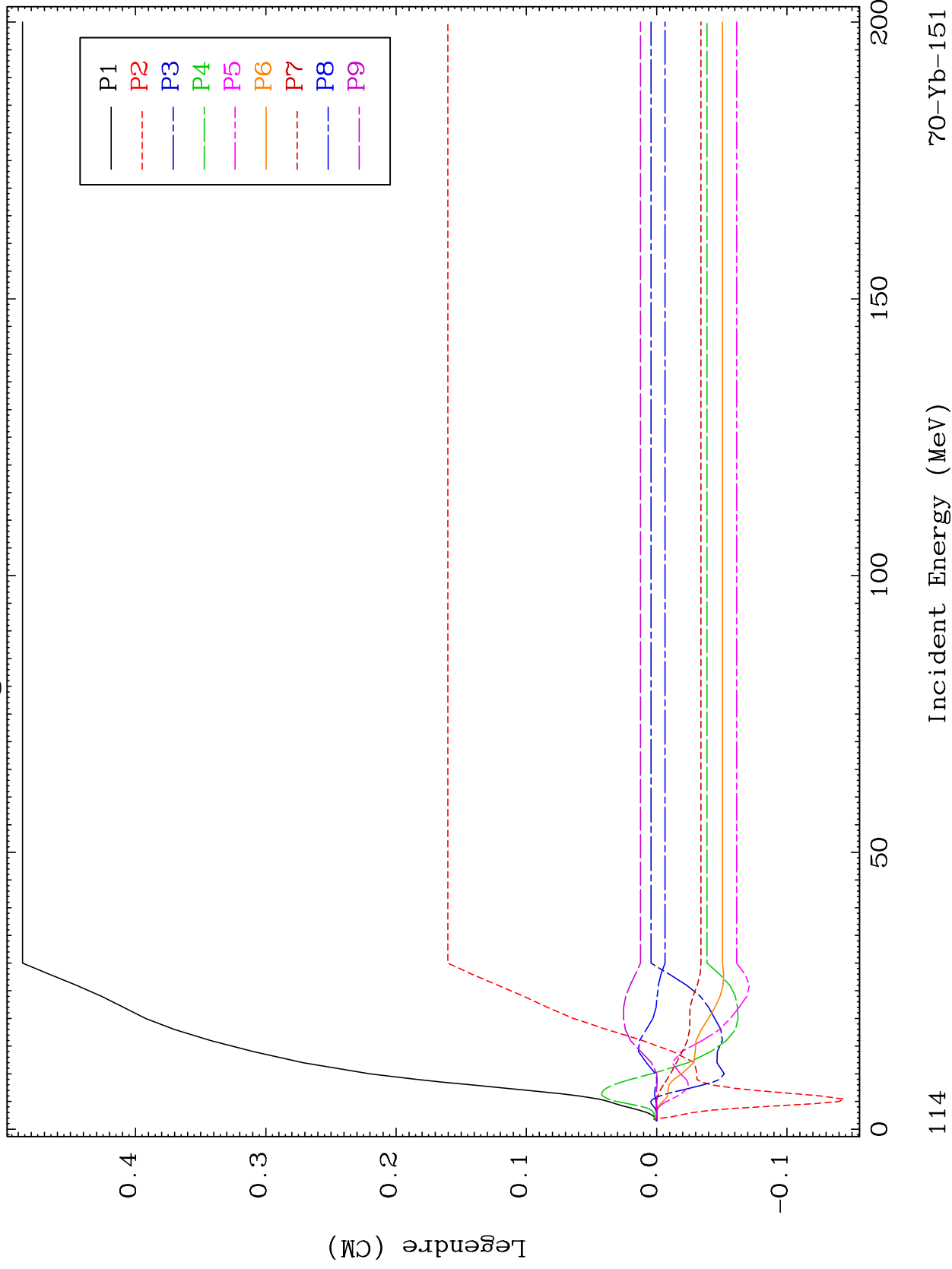
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



114

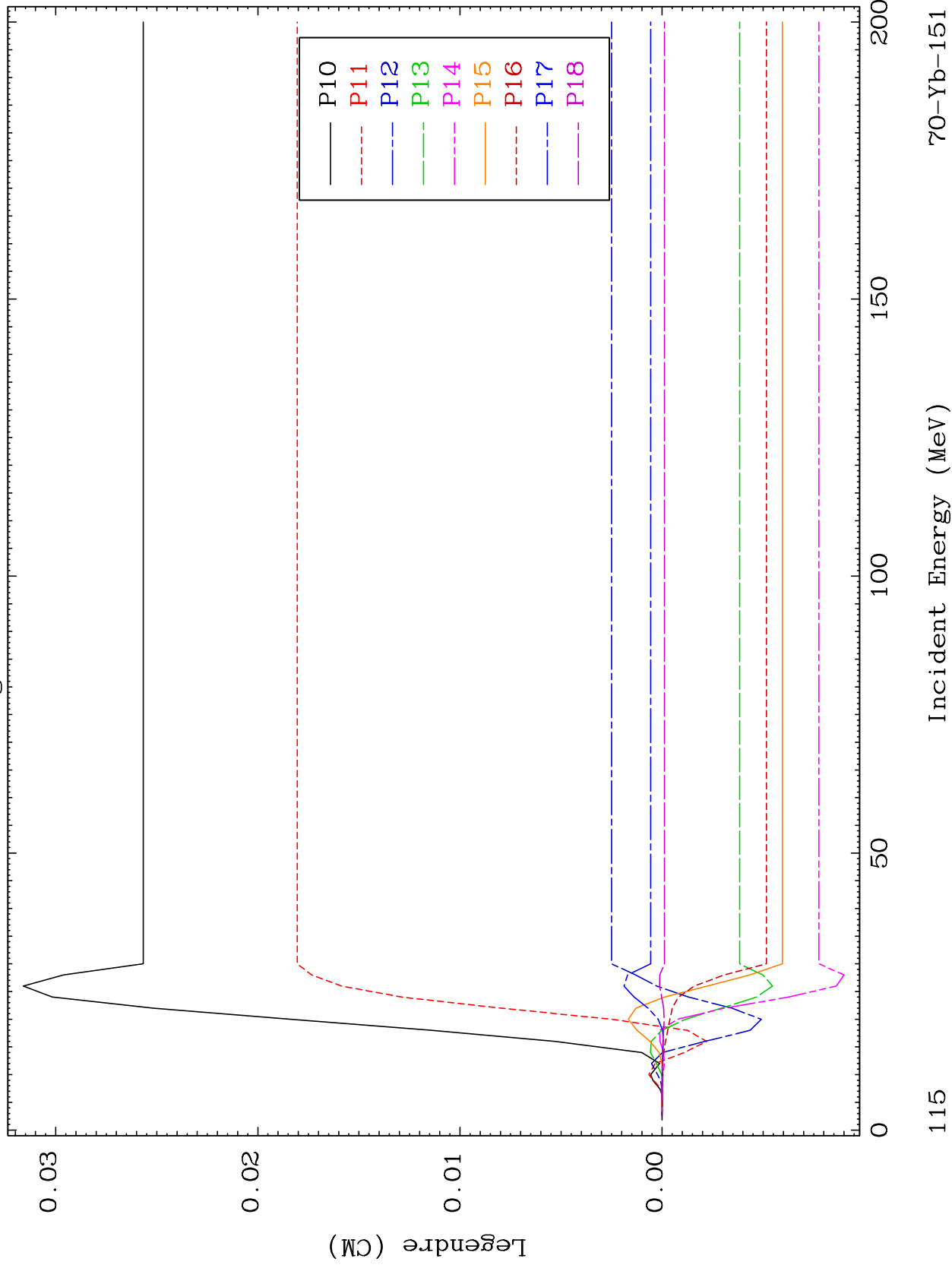
Incident Energy (MeV)

70-Yb-151

MAT 6974

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

70-Yb-151



70-Yb-151

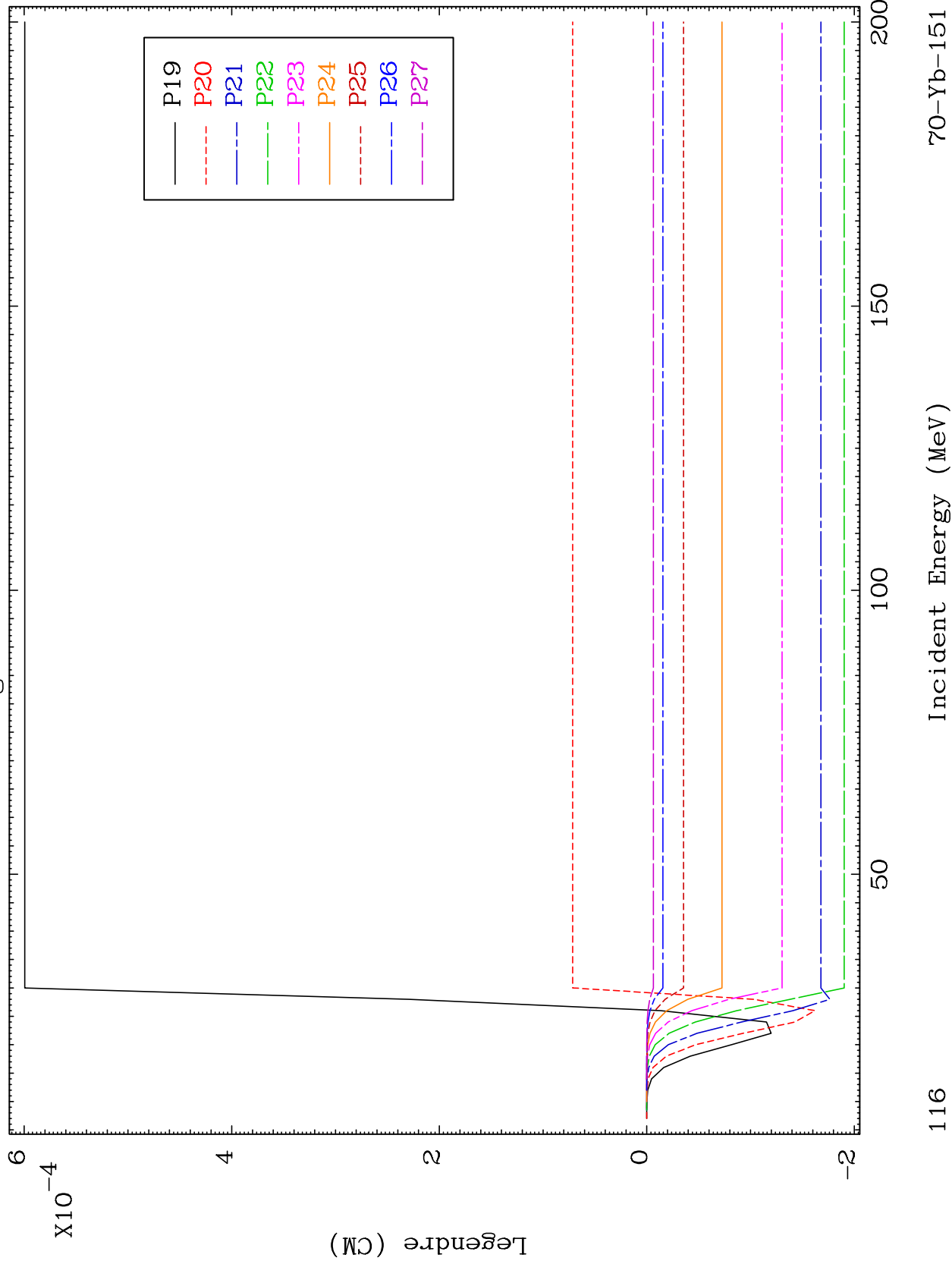
Incident Energy (MeV)

115

MAT 6974

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

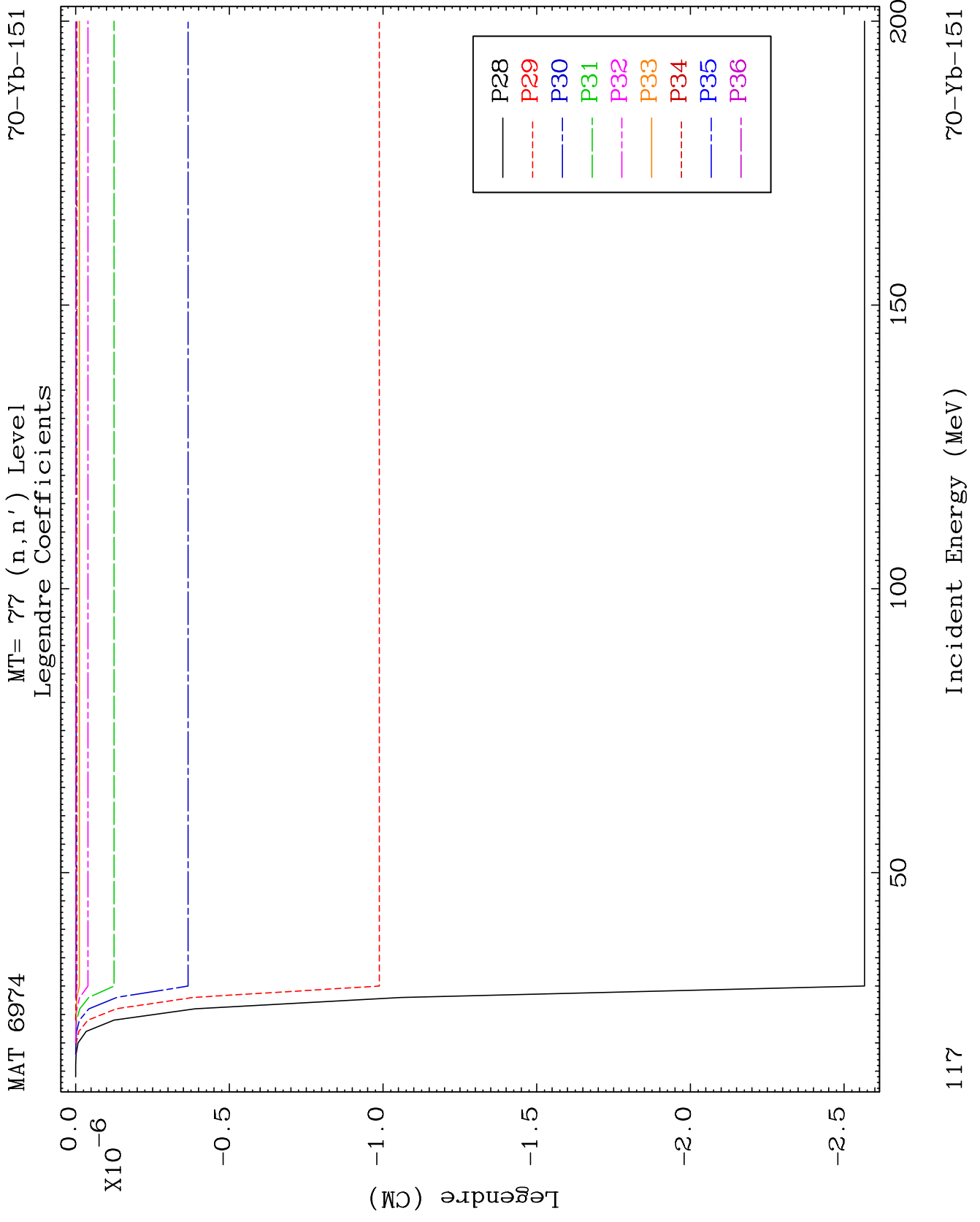
70-Yb-151

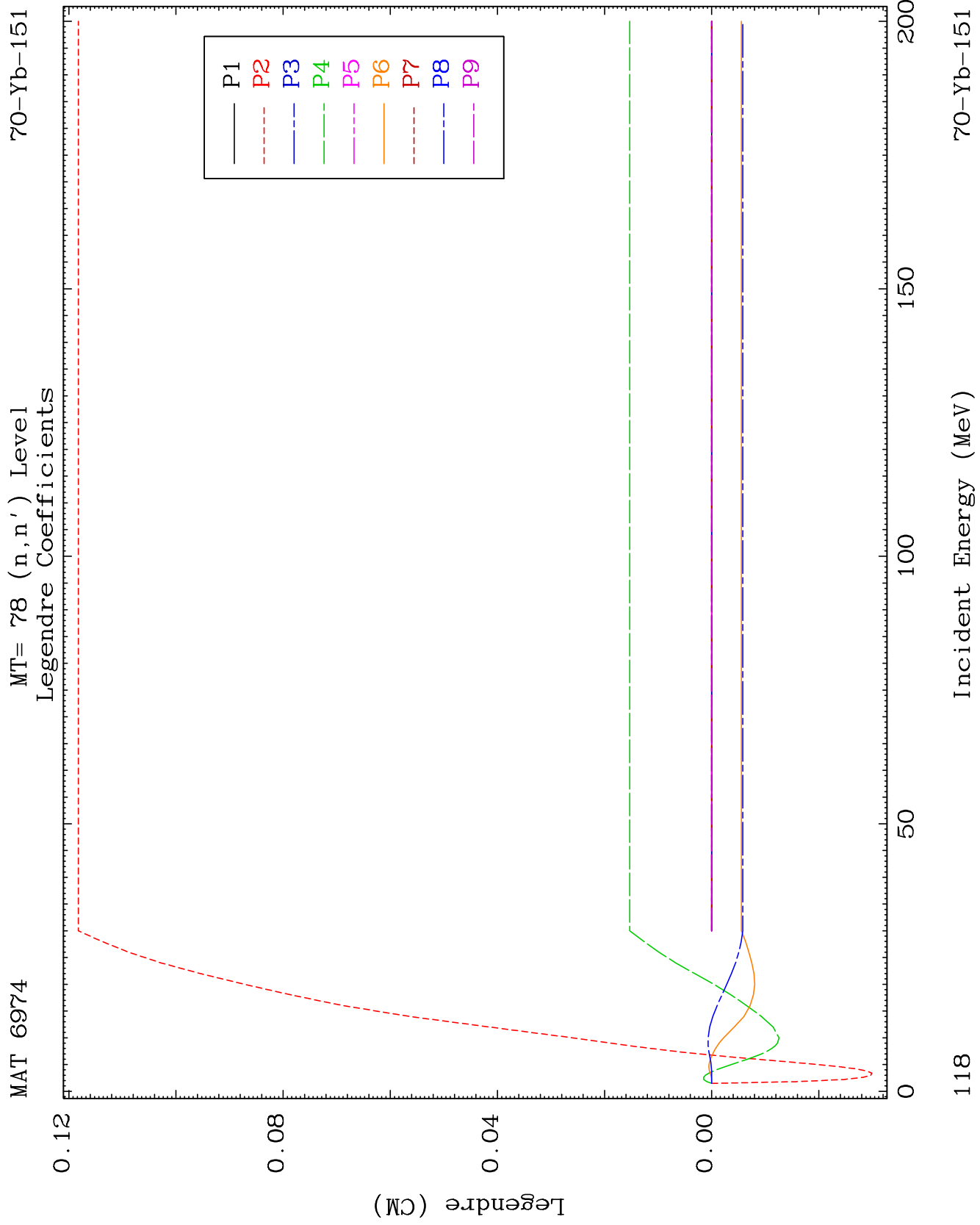


116

Incident Energy (MeV)

70-Yb-151

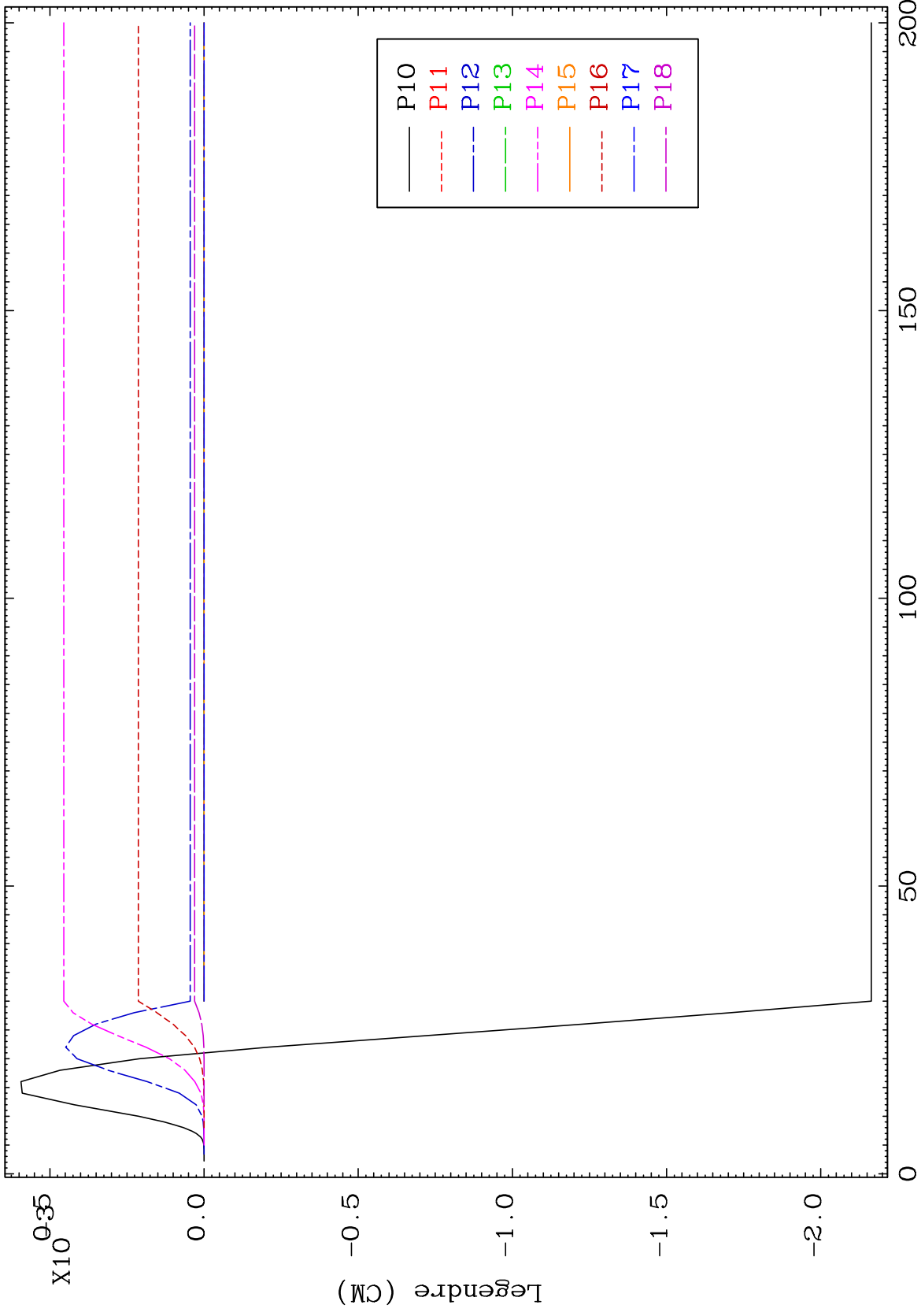




MAT 6974

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

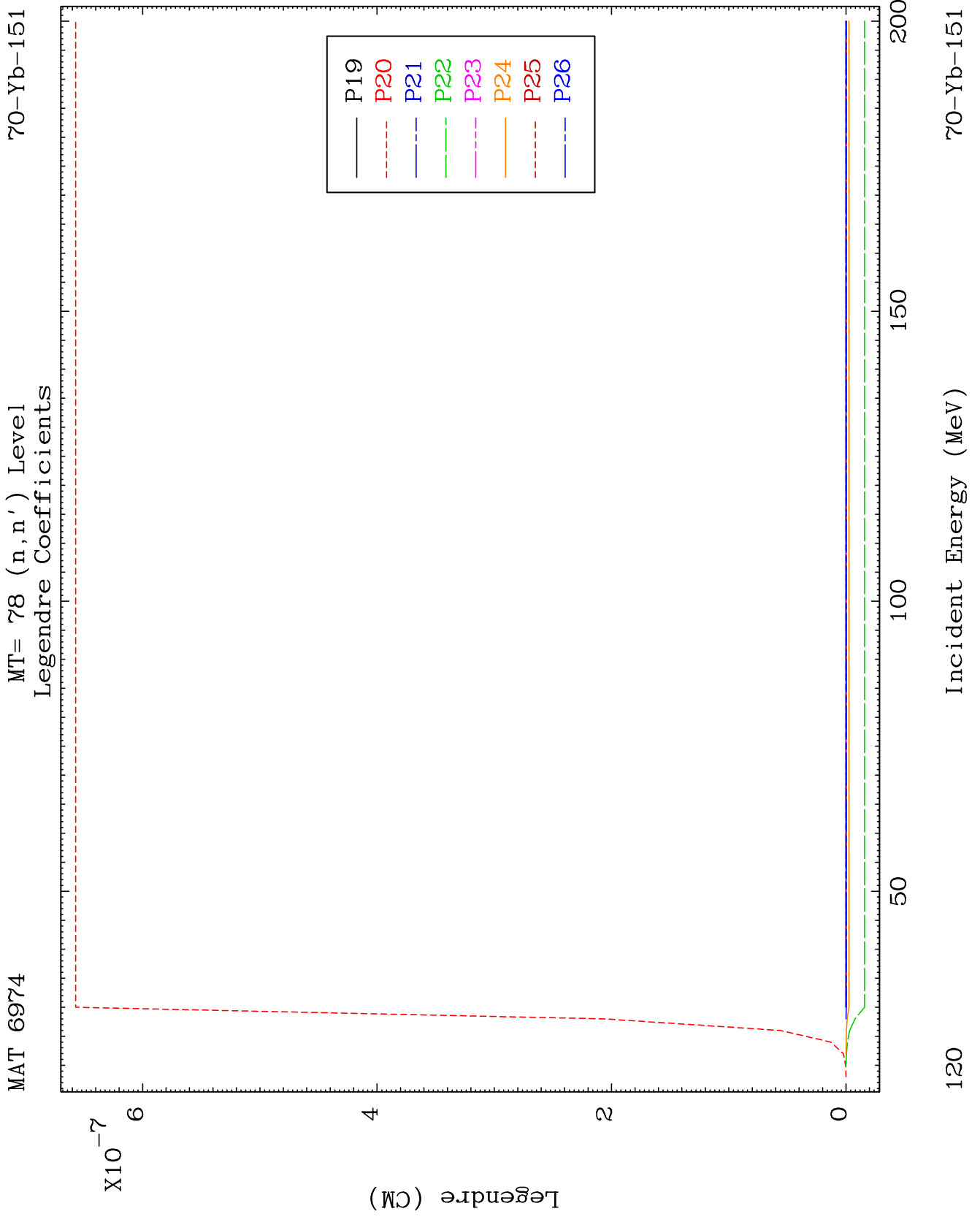
70-Yb-151



119

Incident Energy (MeV)

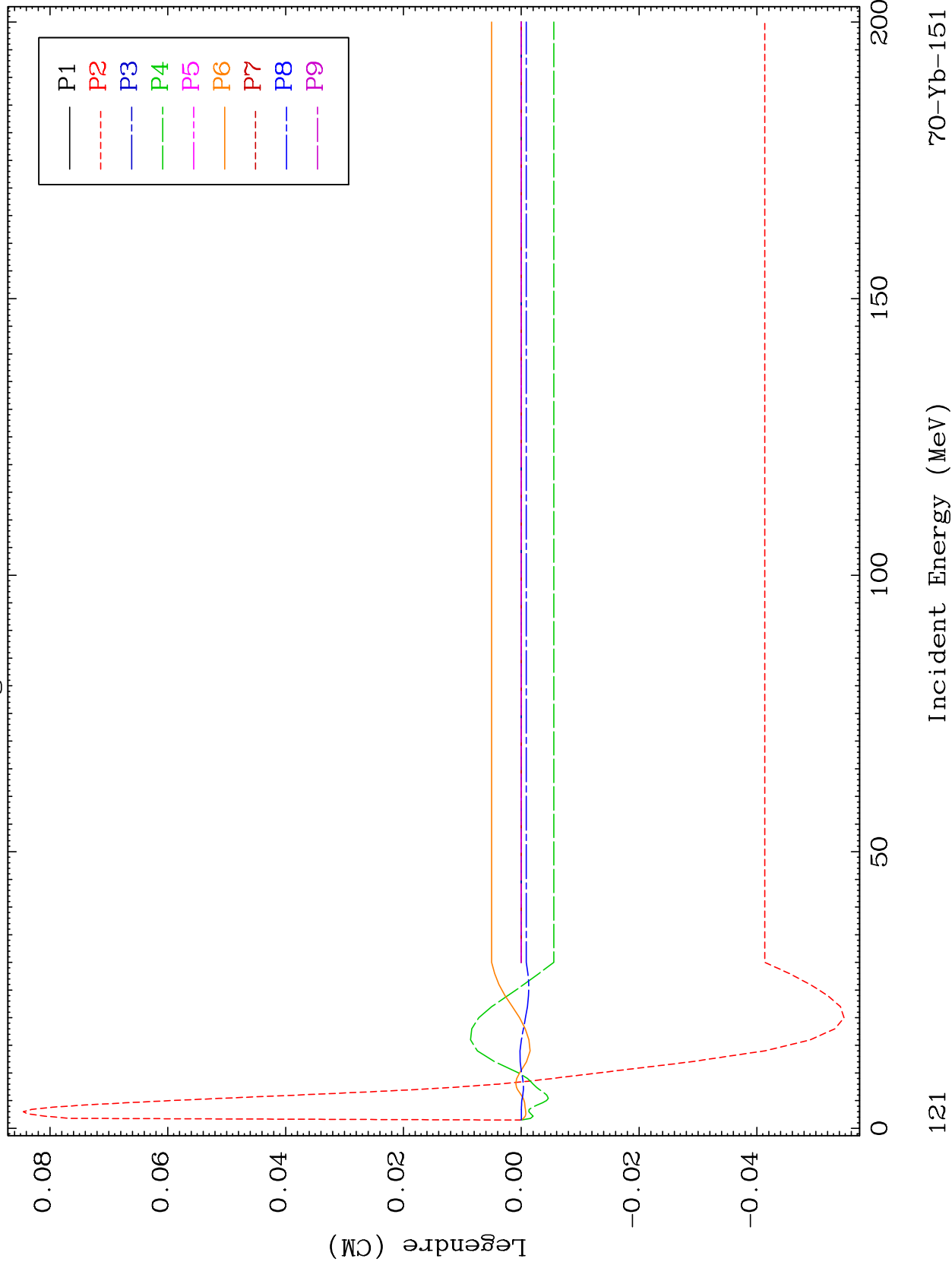
70-Yb-151



MAT 6974

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

70-Yb-151



70-Yb-151

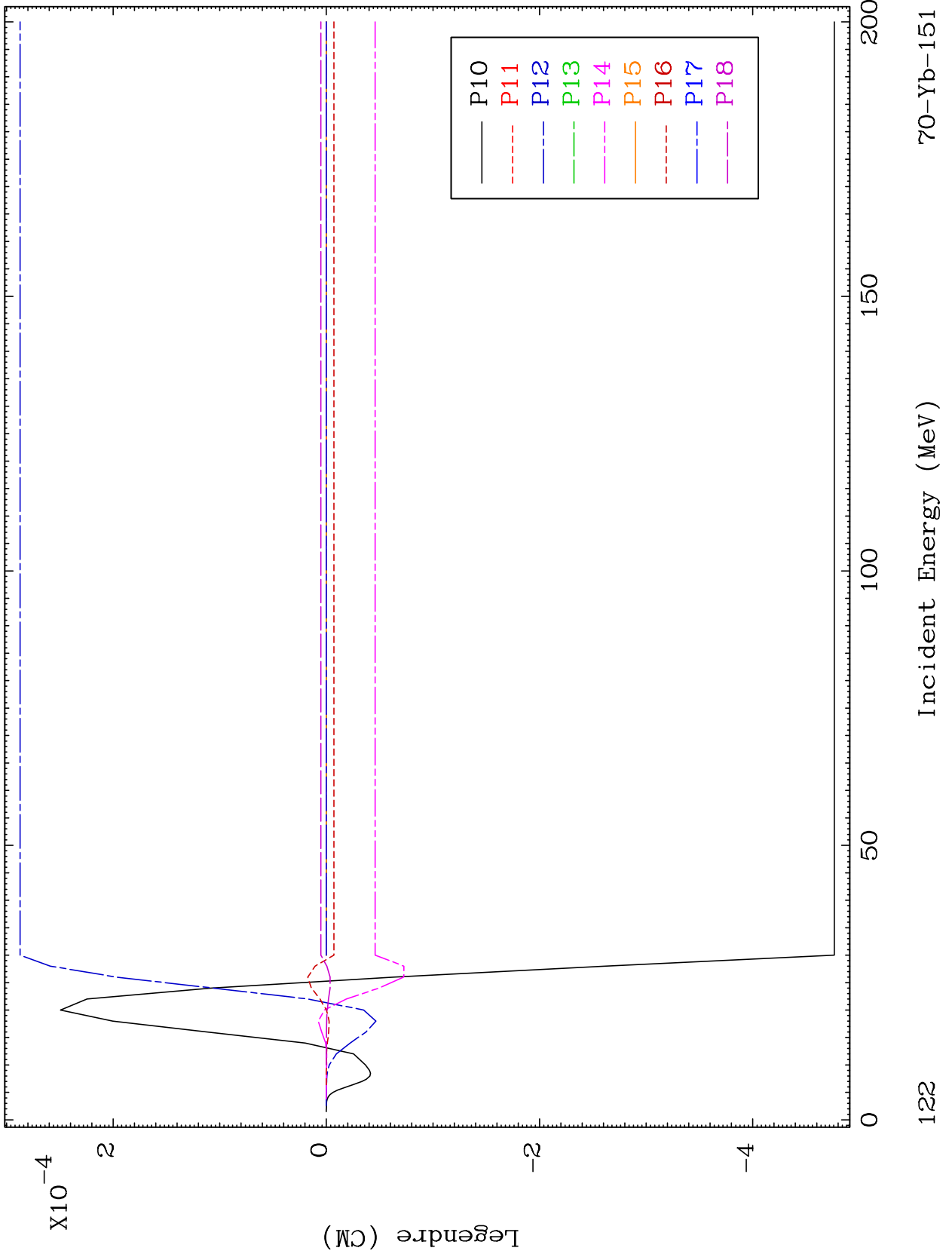
Incident Energy (MeV)

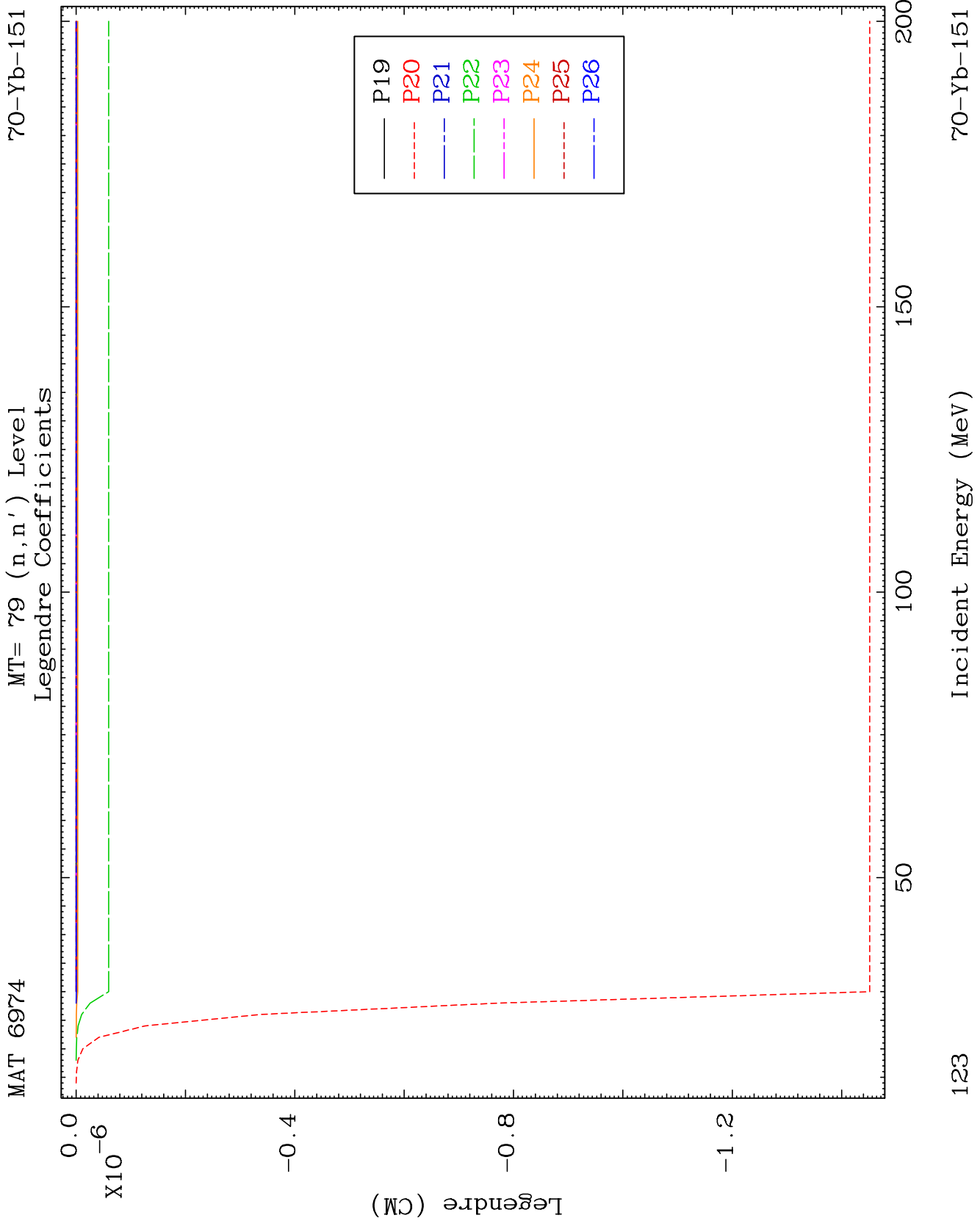
121

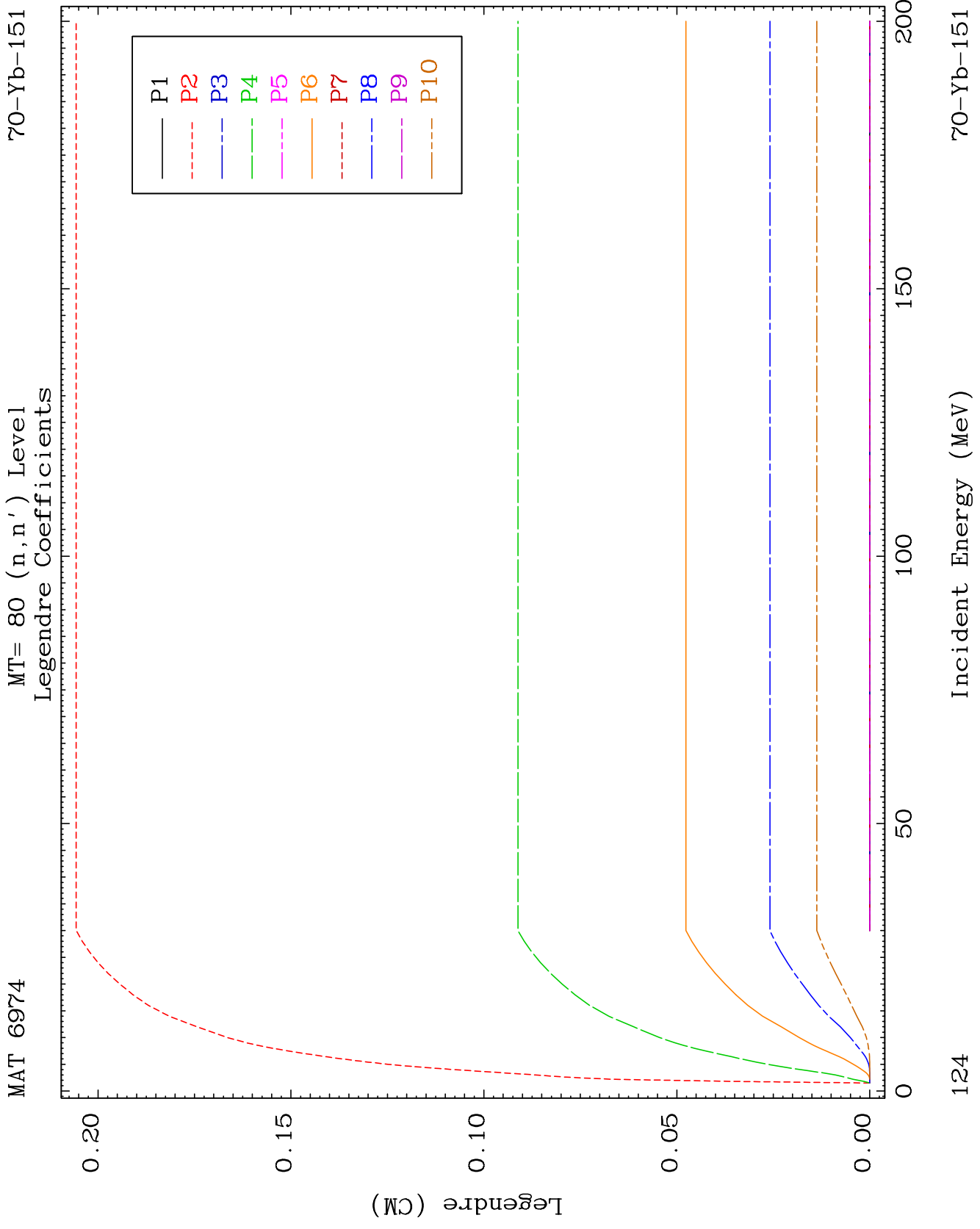
MAT 6974

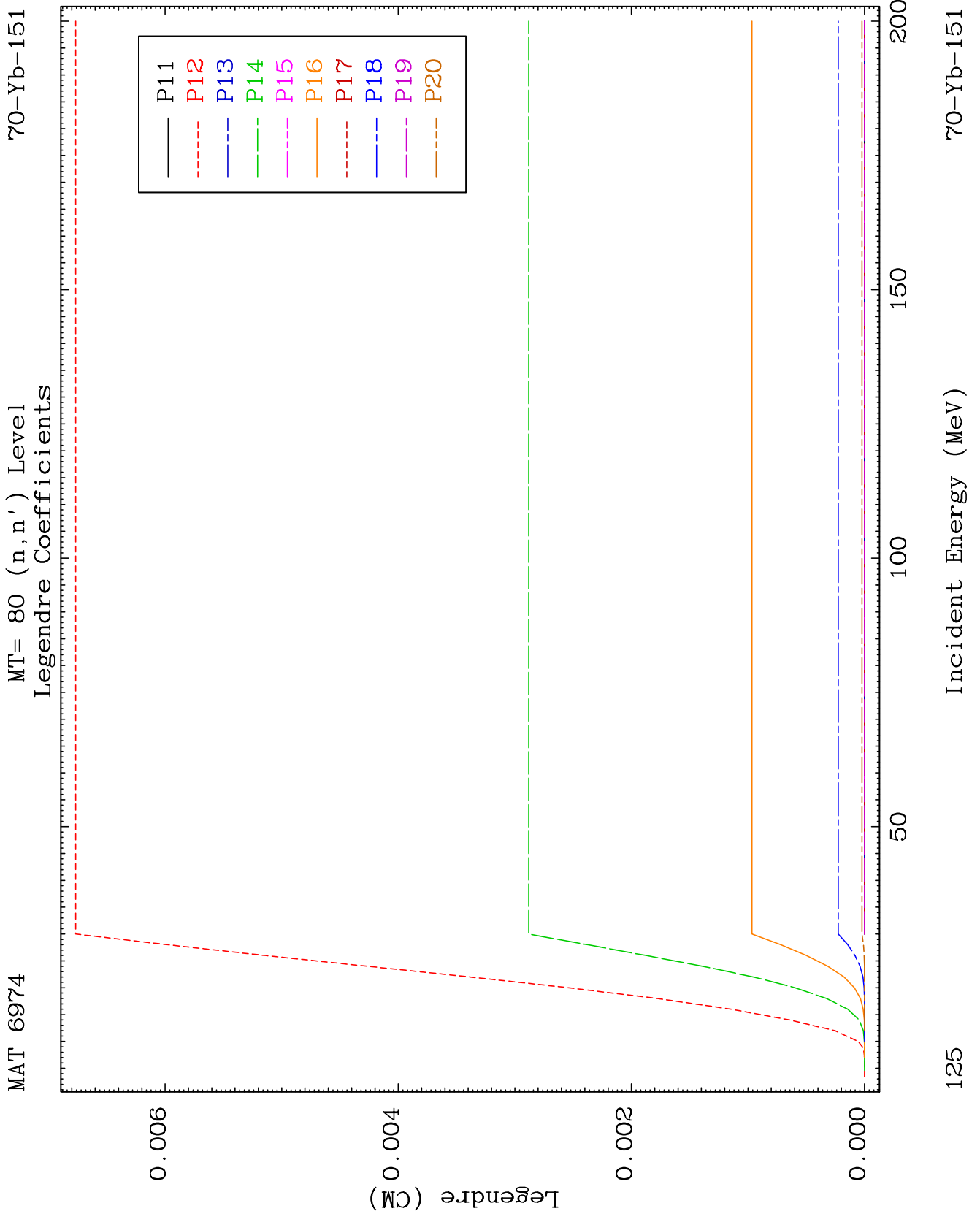
MT= 79 (n,n') Level  
Legendre Coefficients

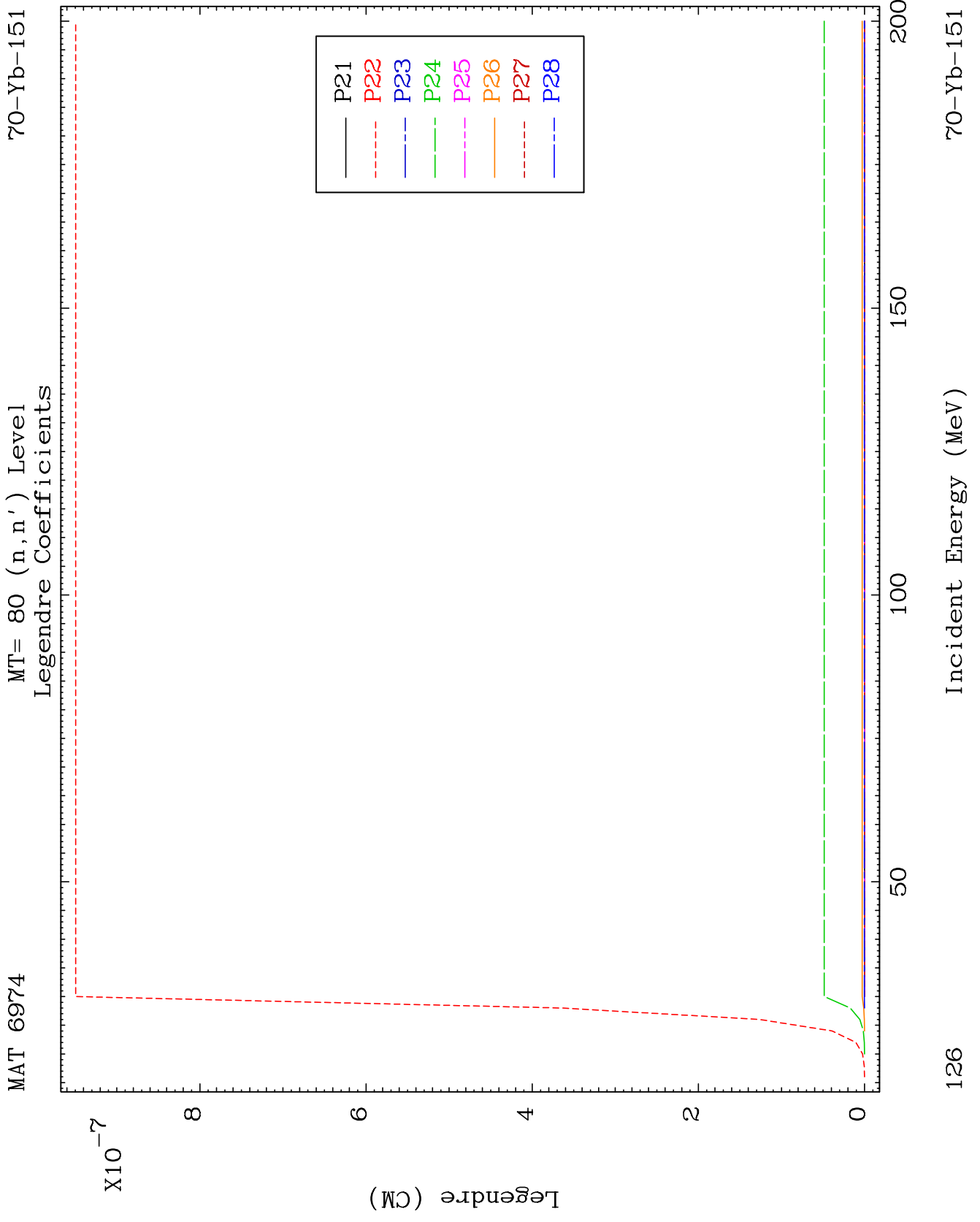
70-Yb-151







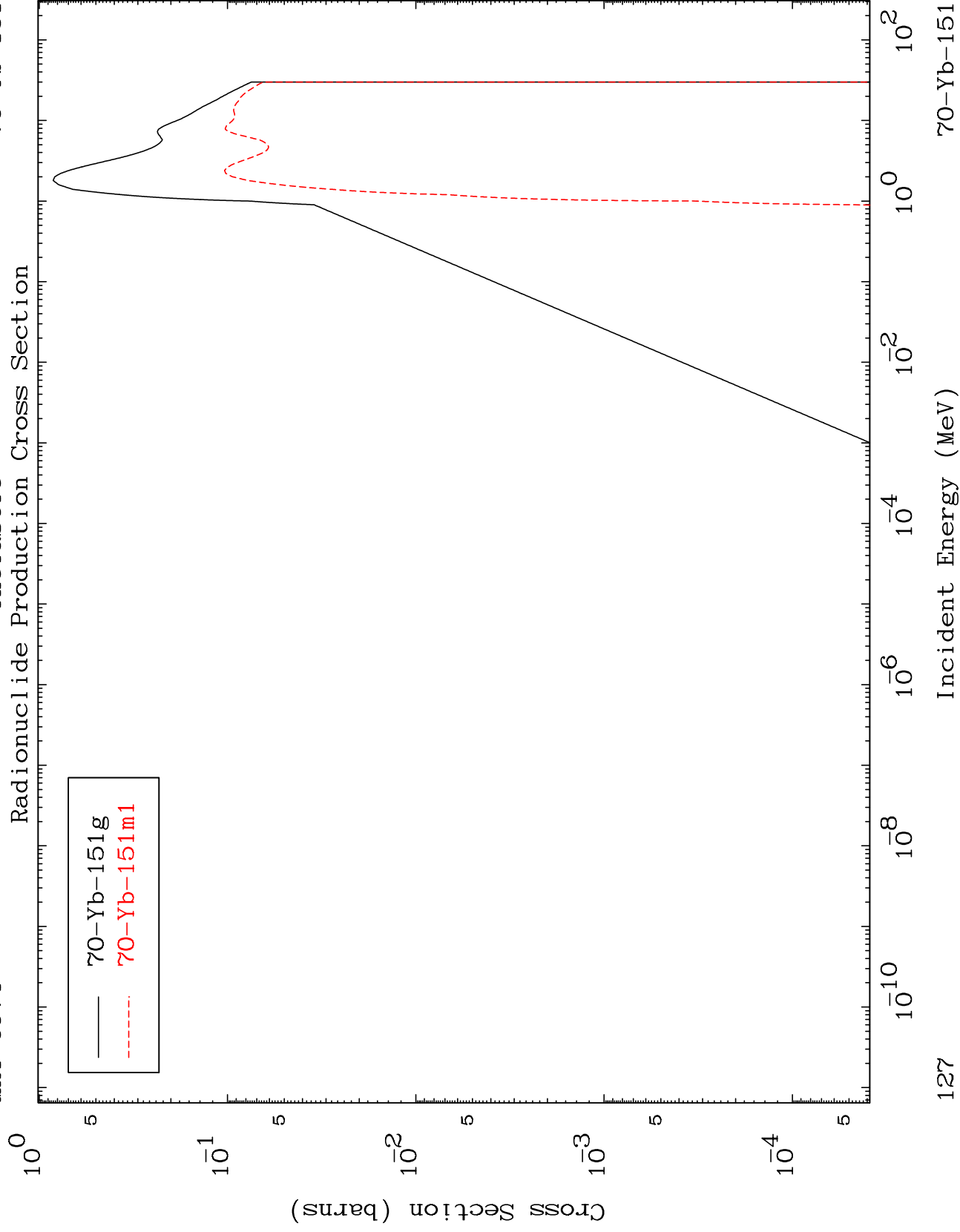




MAT 6974

Inelastic  
Radionuclide Production Cross Section

<sup>70</sup>Yb-151



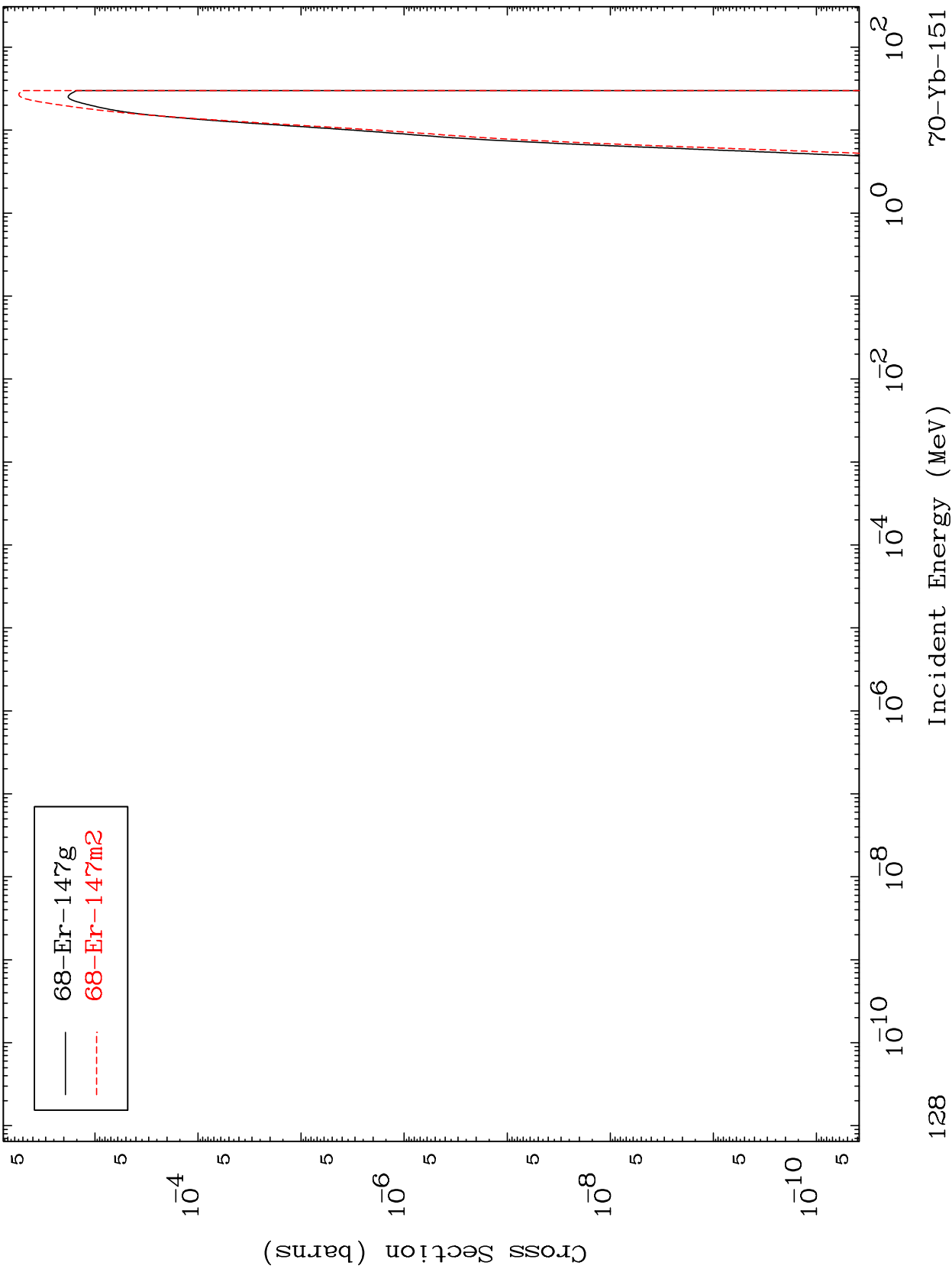
— 70-Yb-151 g  
- - - 70-Yb-151 m1

MAT 6974

$(n, n') \alpha$

70-Yb-151

Radionuclide Production Cross Section

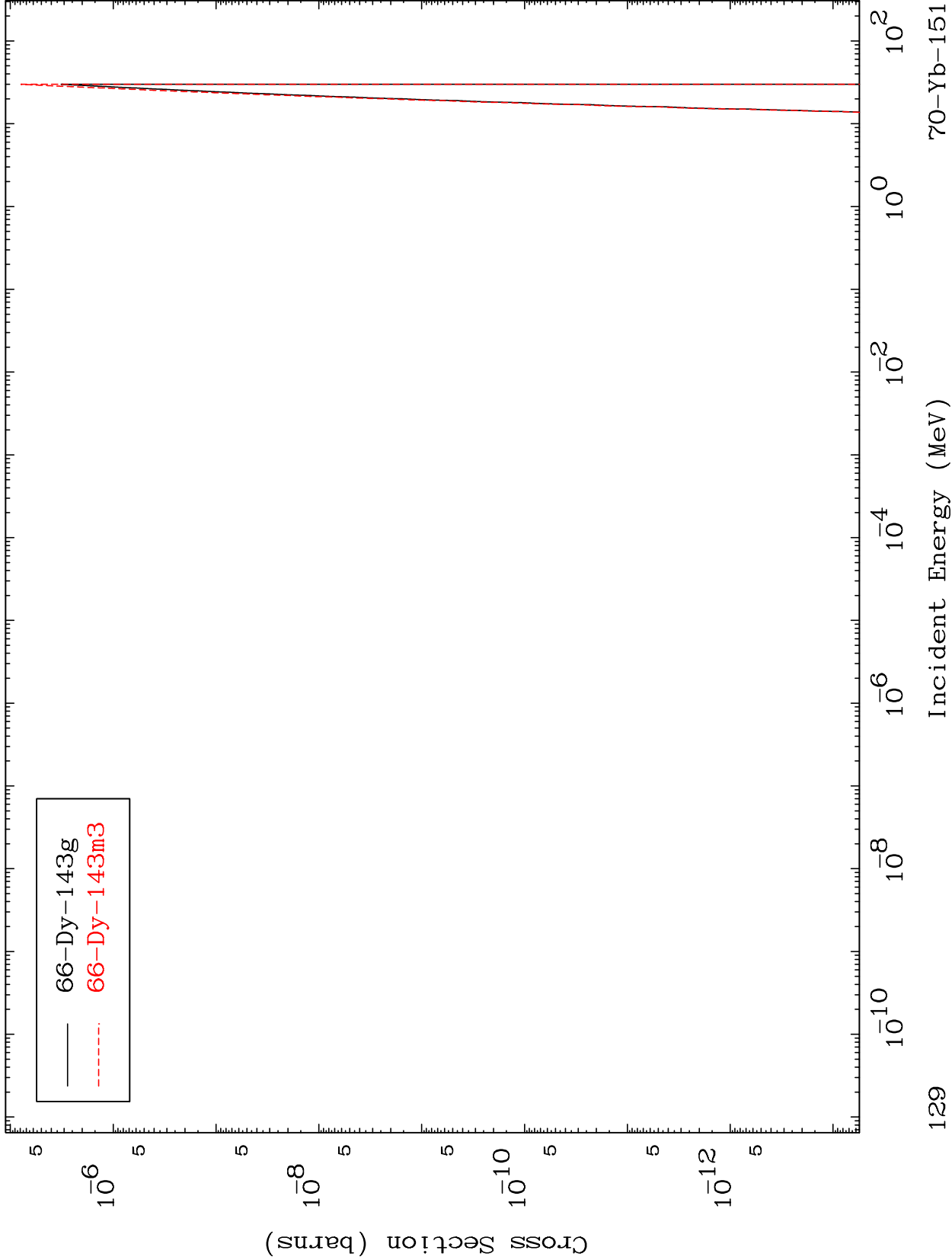


MAT 6974

(n,n') 2α

70-Yb-151

Radionuclide Production Cross Section

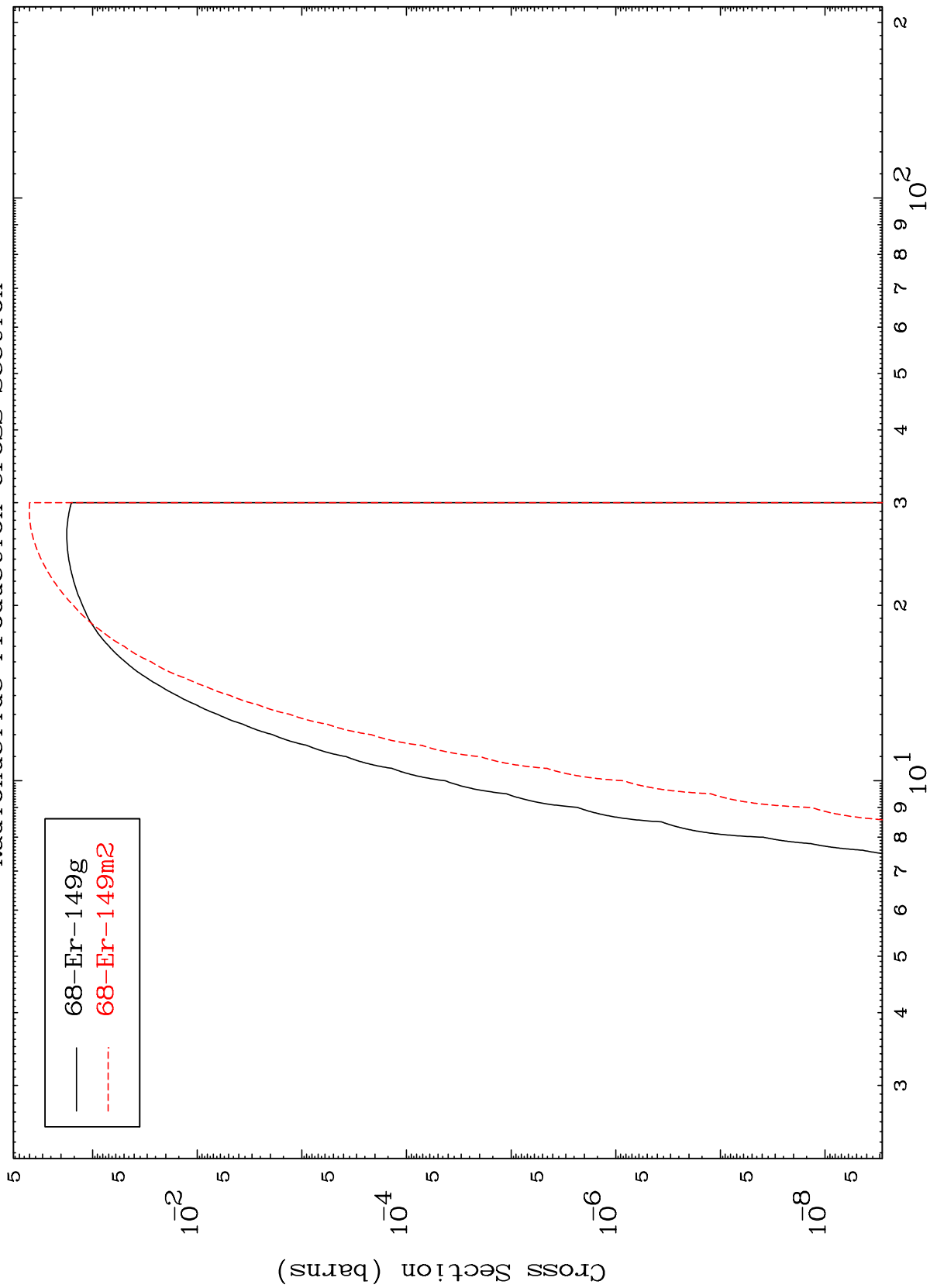


MAT 6974

(n,2n) p

70-Yb-151

Radionuclide Production Cross Section



68-Er-149g  
68-Er-149m2

130

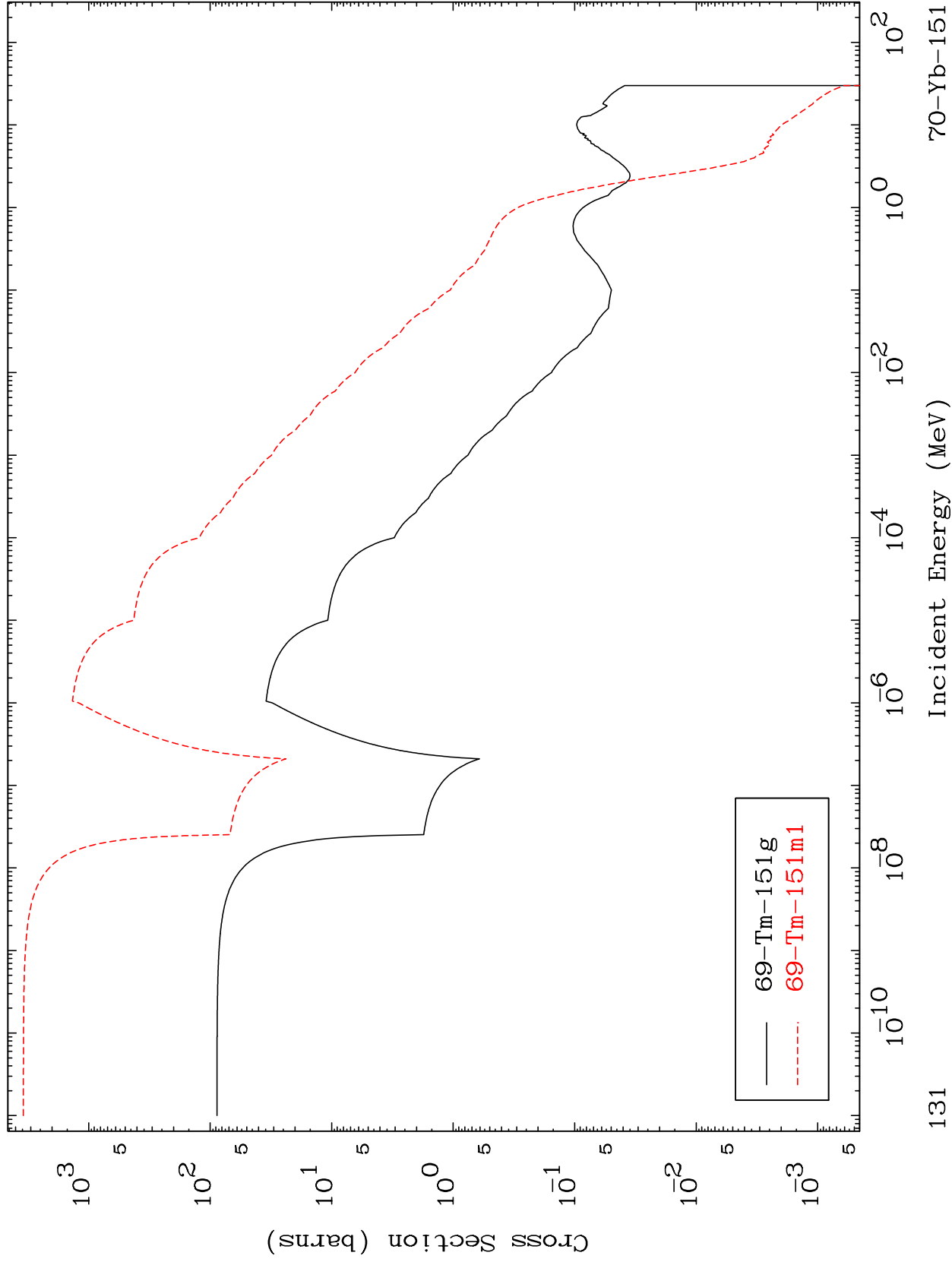
Incident Energy (MeV)

70-Yb-151

MAT 6974

70-Yb-151

(n,p)  
Radionuclide Production Cross Section

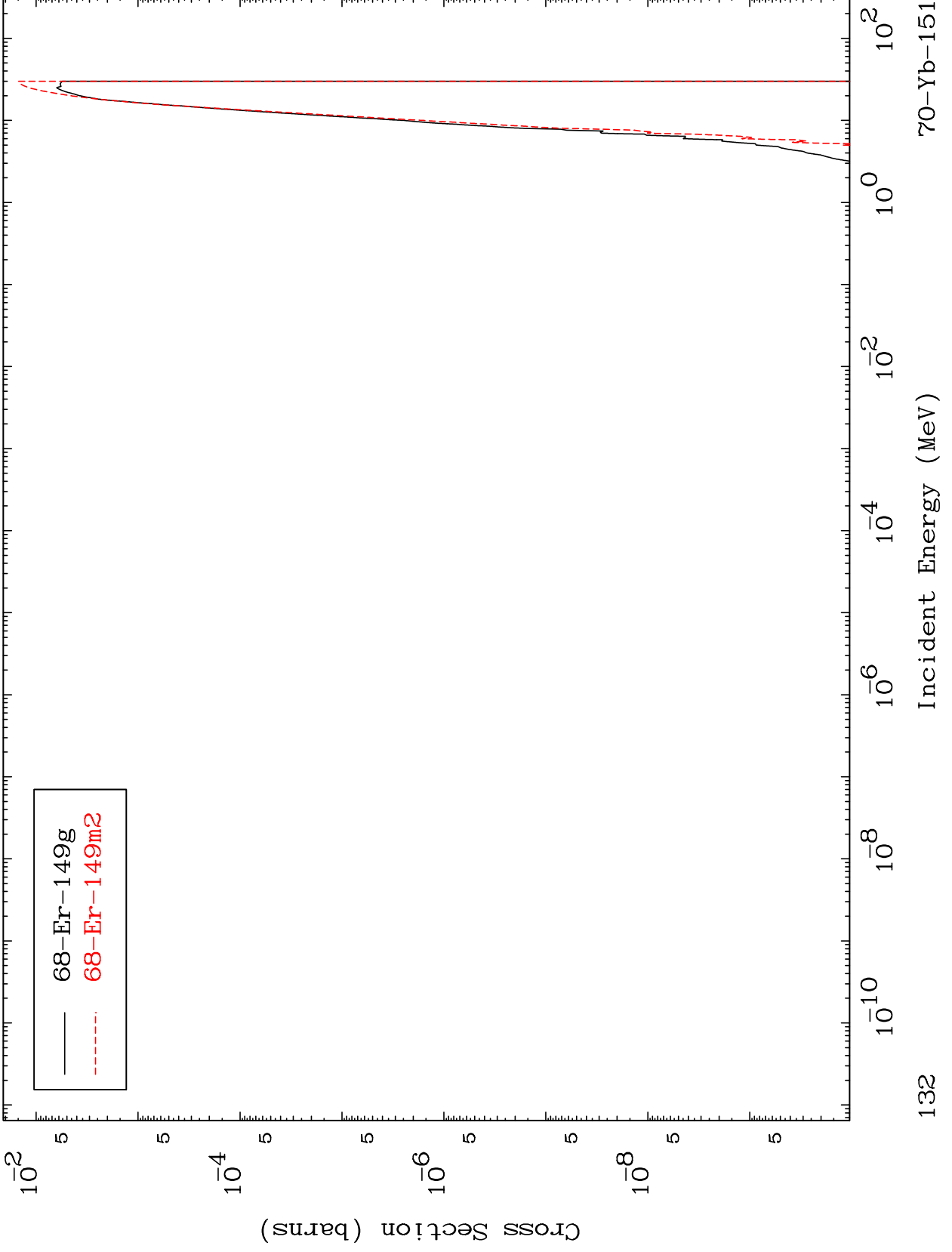


MAT 6974

(n,He-3)

70-Yb-151

Radionuclide Production Cross Section

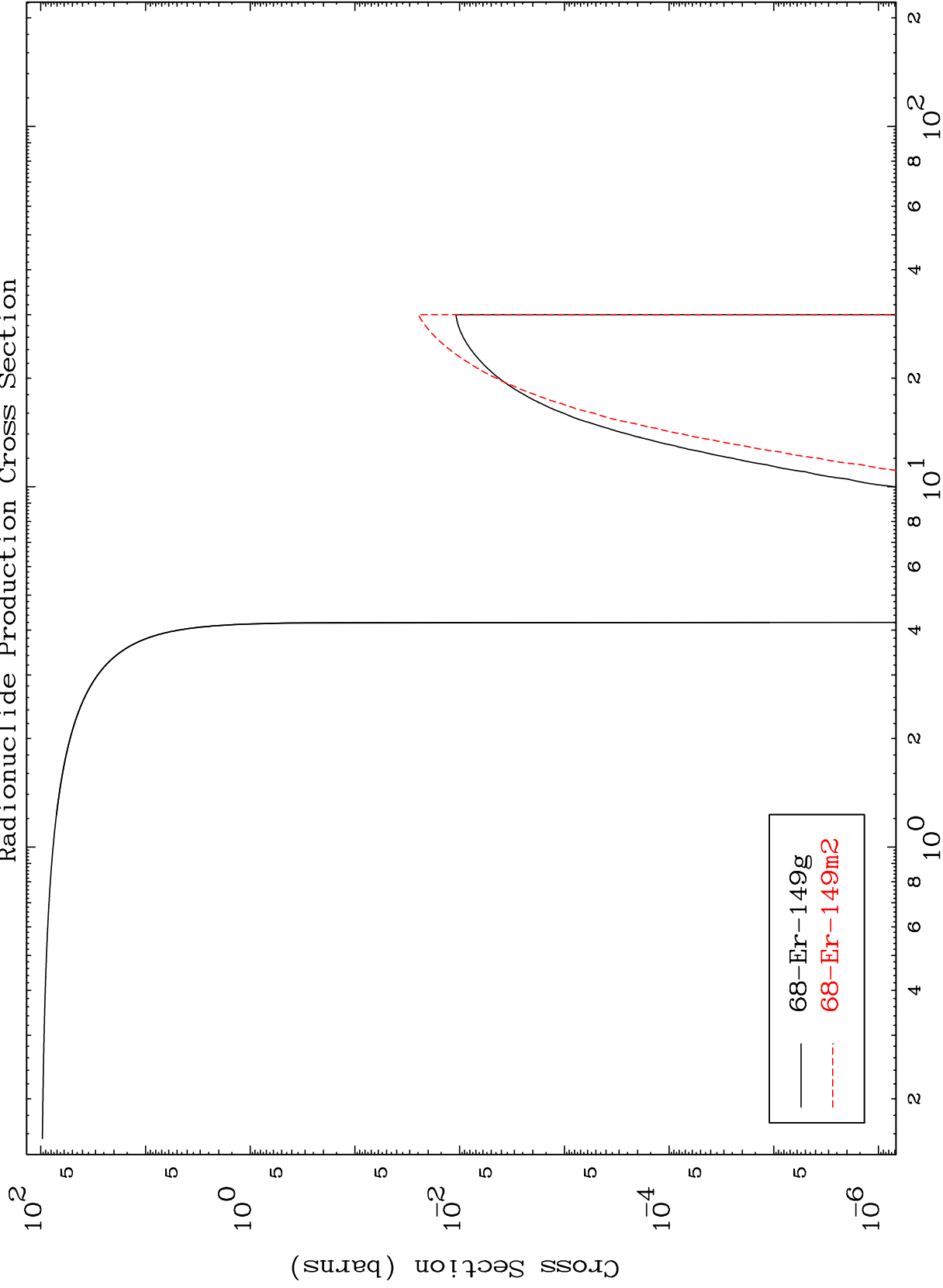


MAT 6974

(n,p) d

70-Yb-151

Radionuclide Production Cross Section



133

Incident Energy (MeV)

70-Yb-151