

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

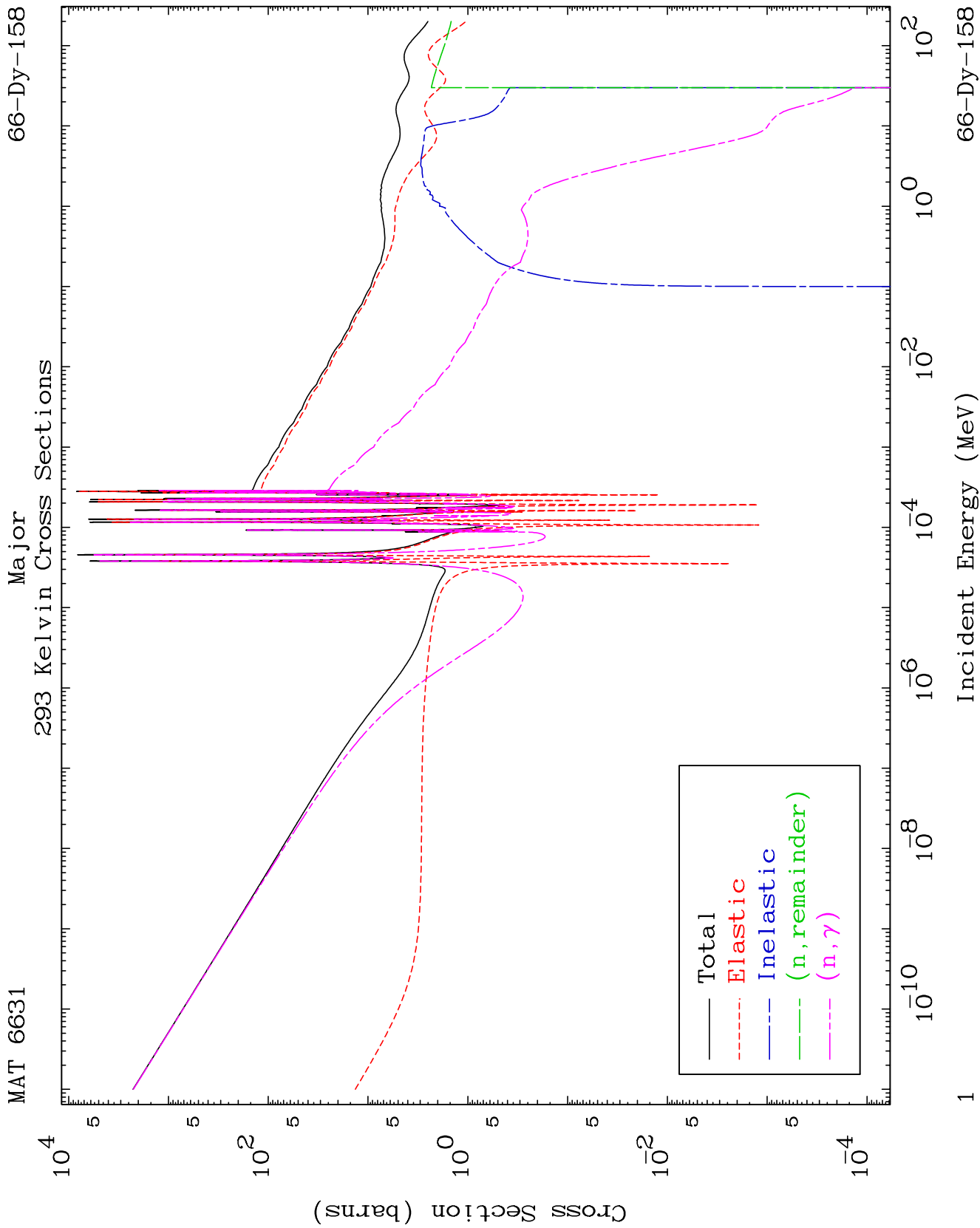
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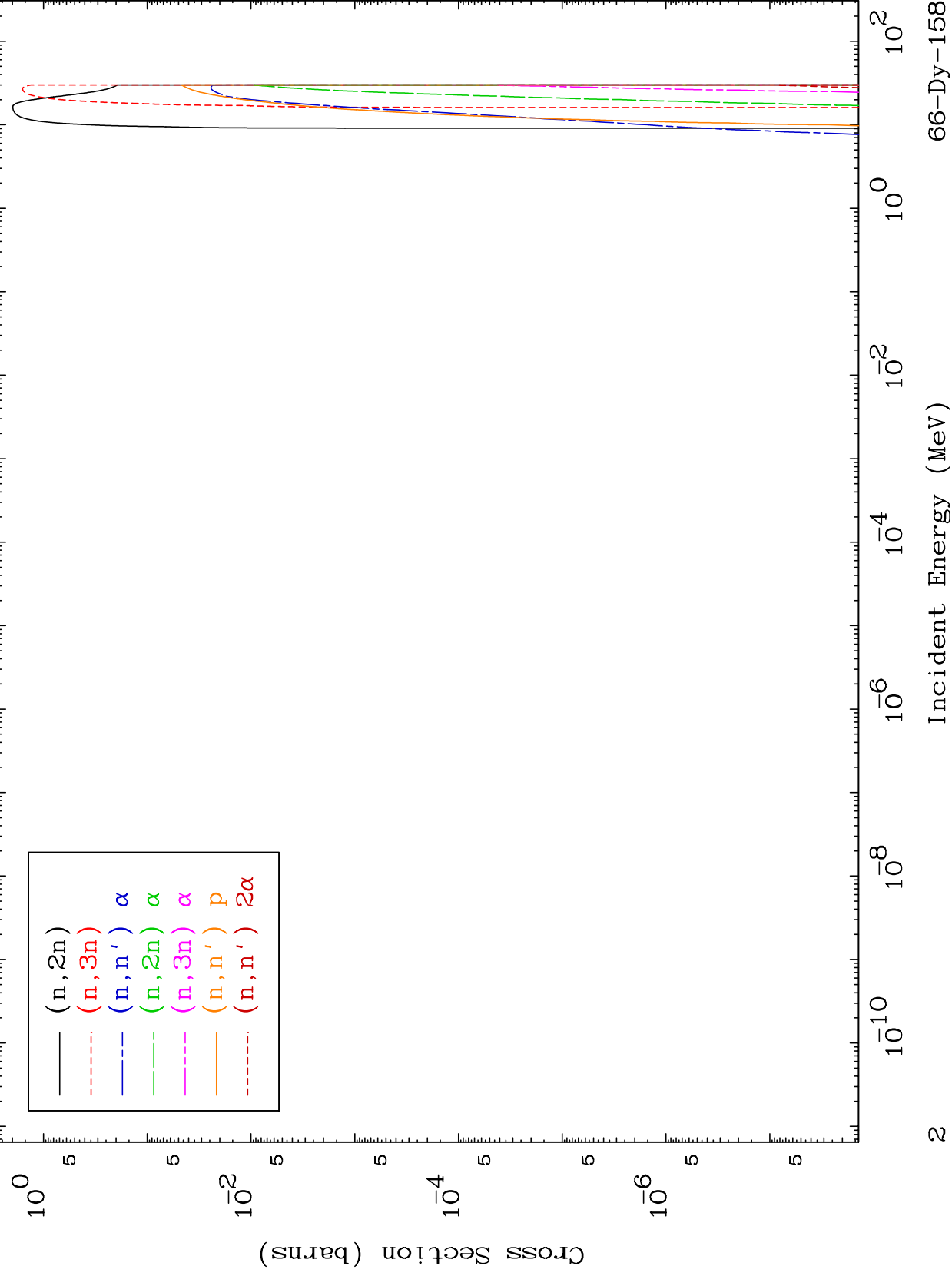
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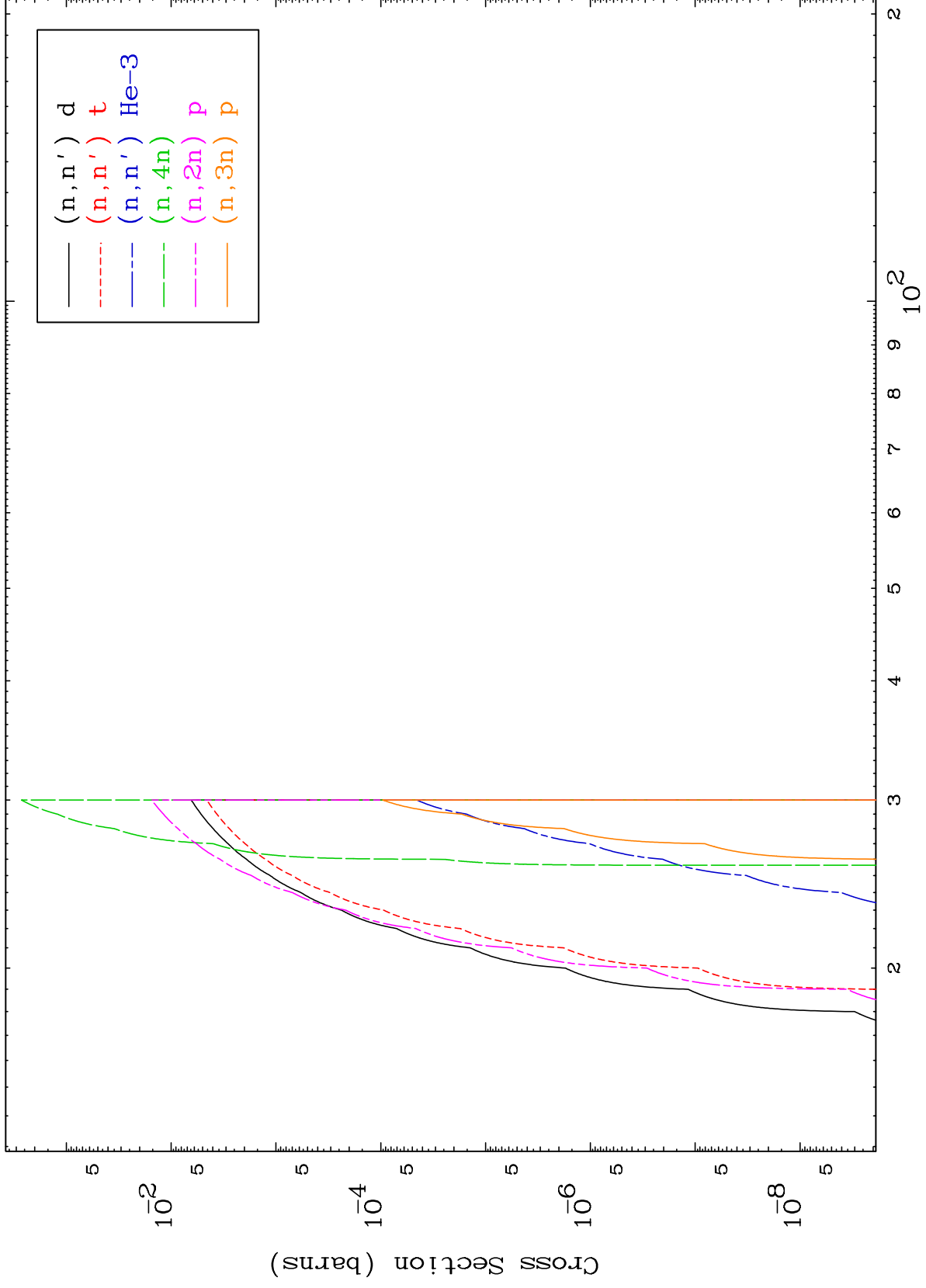


MAT 6631

Neutron Production  
293 Kelvin Cross Sections

66-Dy-158

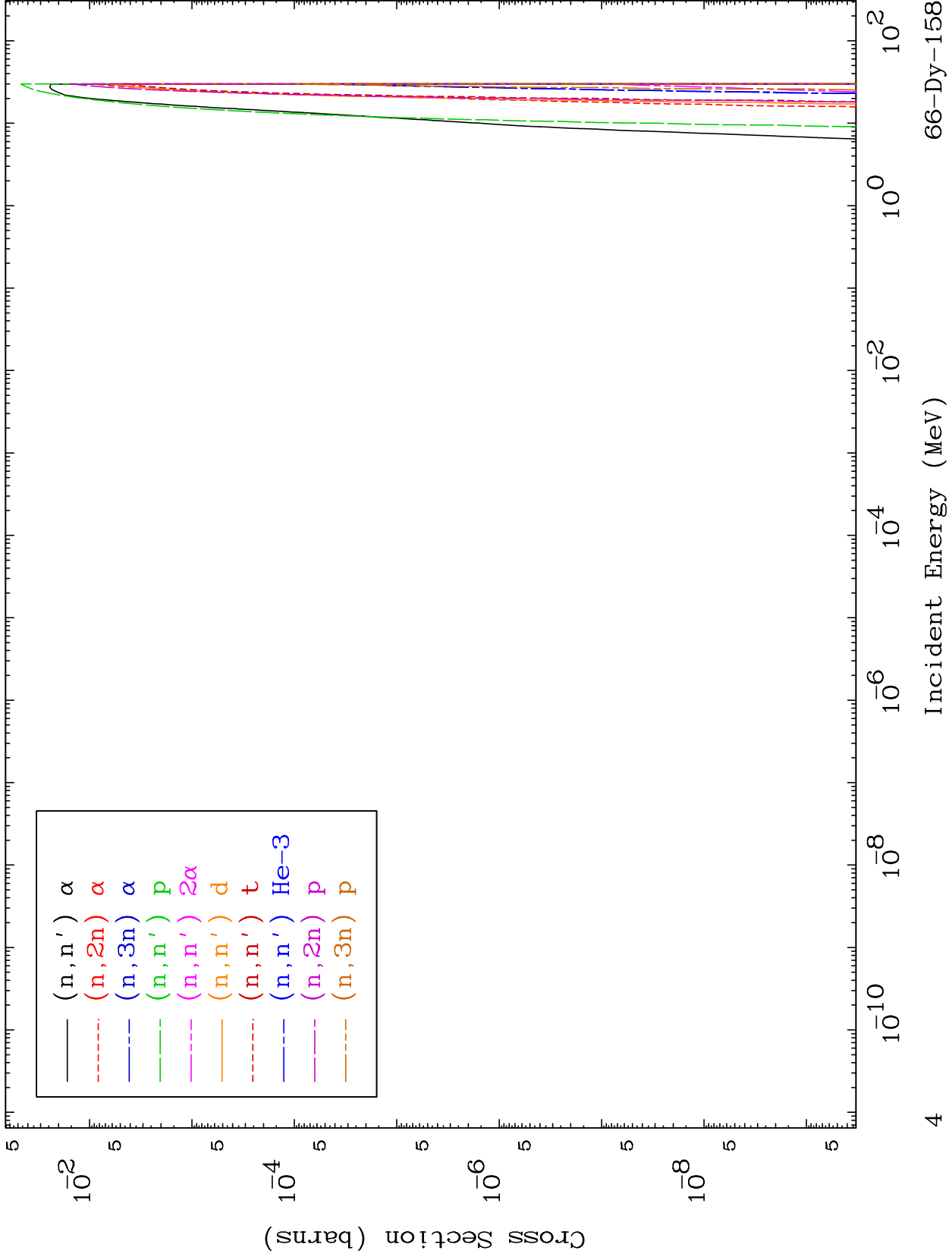




MAT 6631

Charged Particle  
293 Kelvin Cross Sections

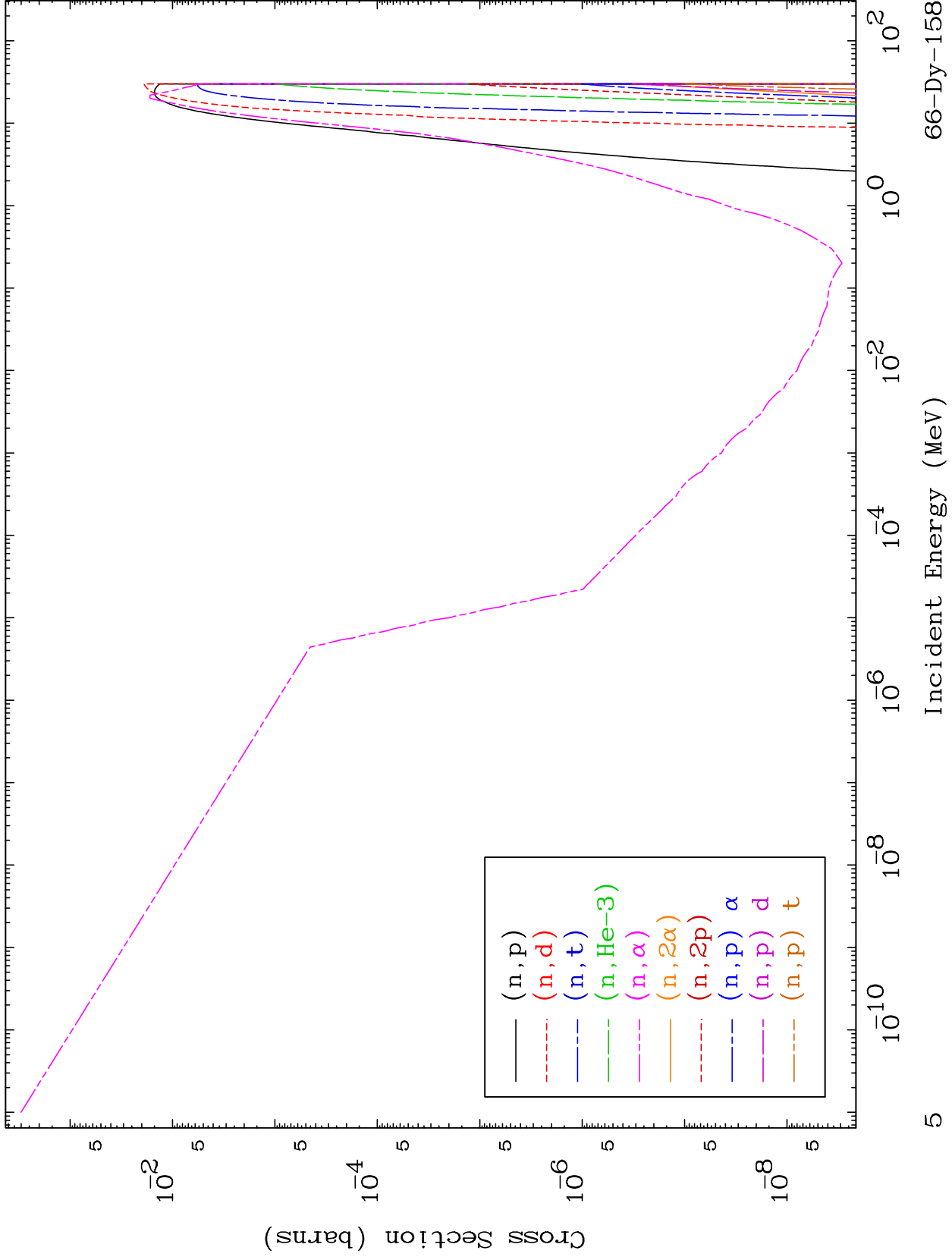
66-Dy-158



MAT 6631

Charged Particle  
293 Kelvin Cross Sections

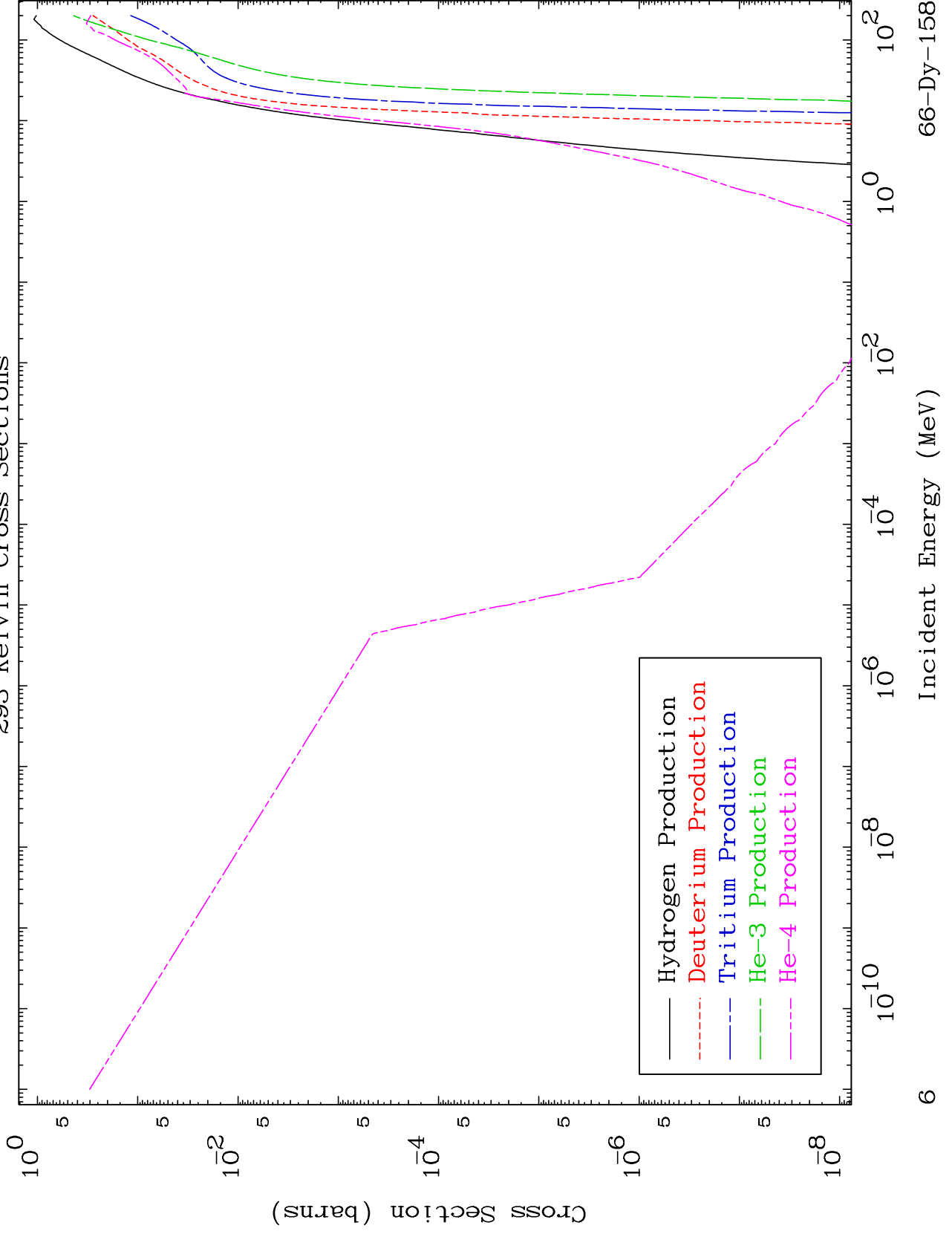
66-Dy-158



MAT 6631

Particle Production  
293 Kelvin Cross Sections

66-Dy-158

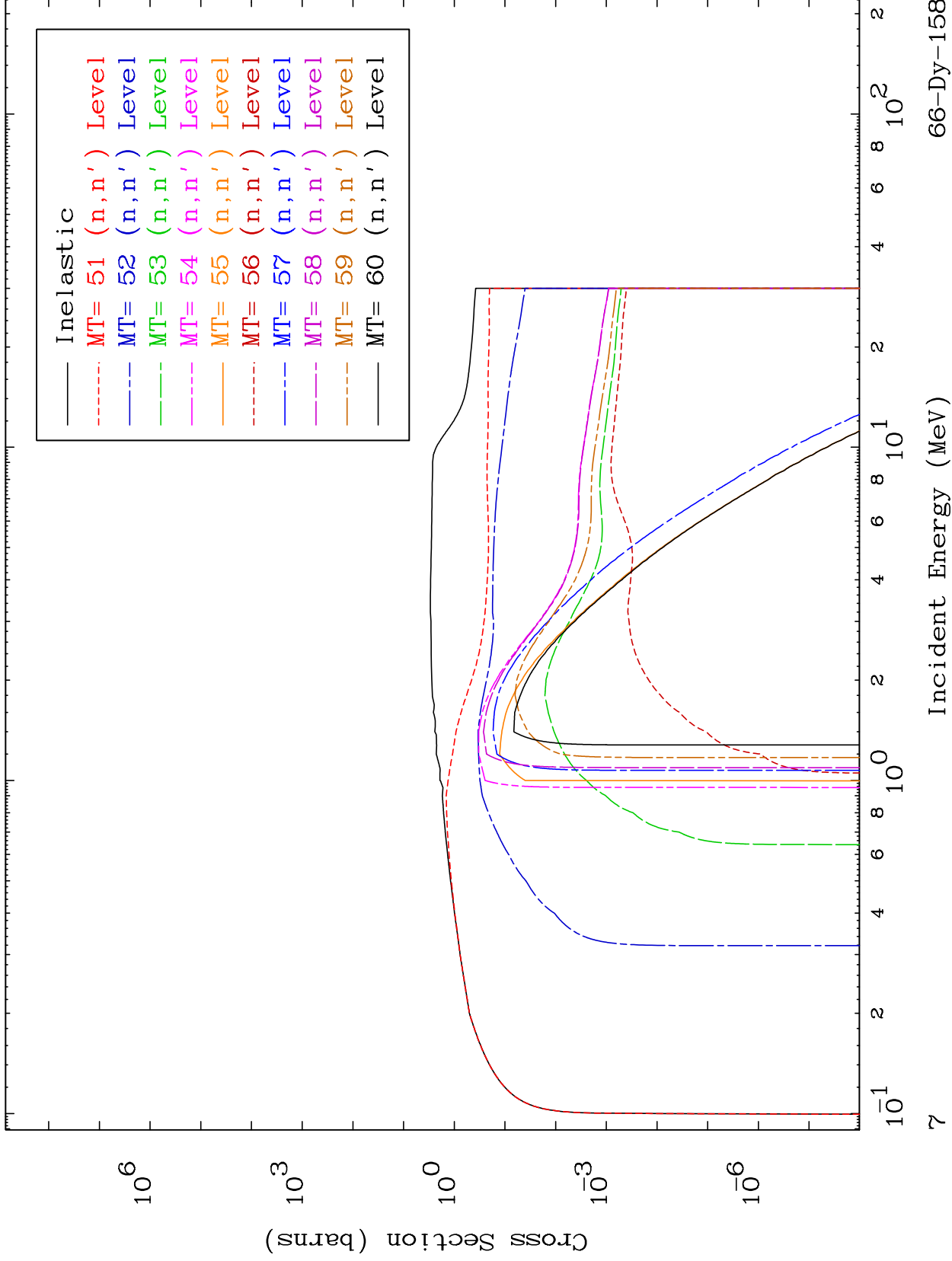


MAT 6631

(n,n') Level

66-Dy-158

293 Kelvin Cross Sections



Incident Energy (MeV)

66-Dy-158

7

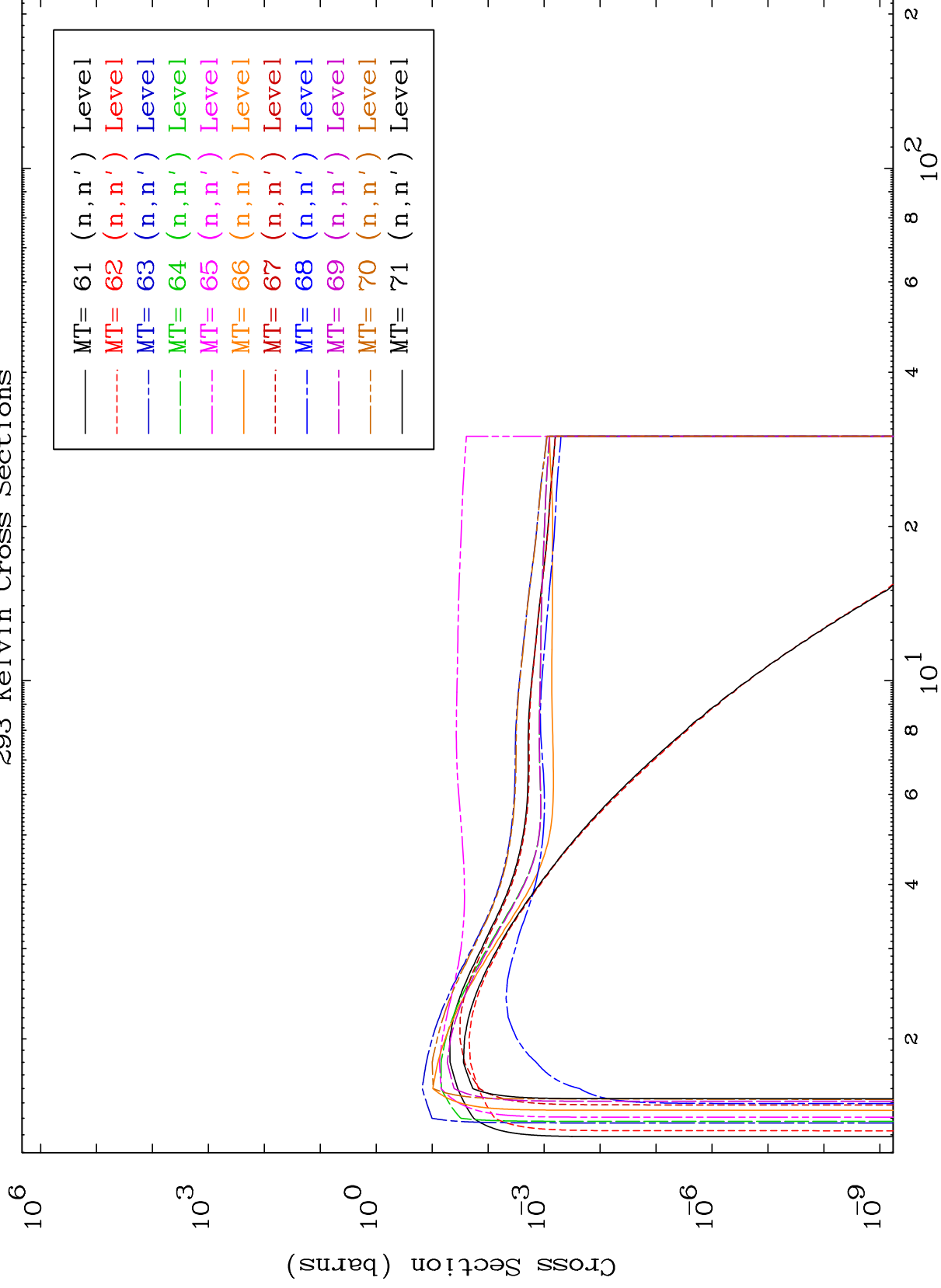


MAT 6631

(n,n') Level

66-Dy-158

293 Kelvin Cross Sections

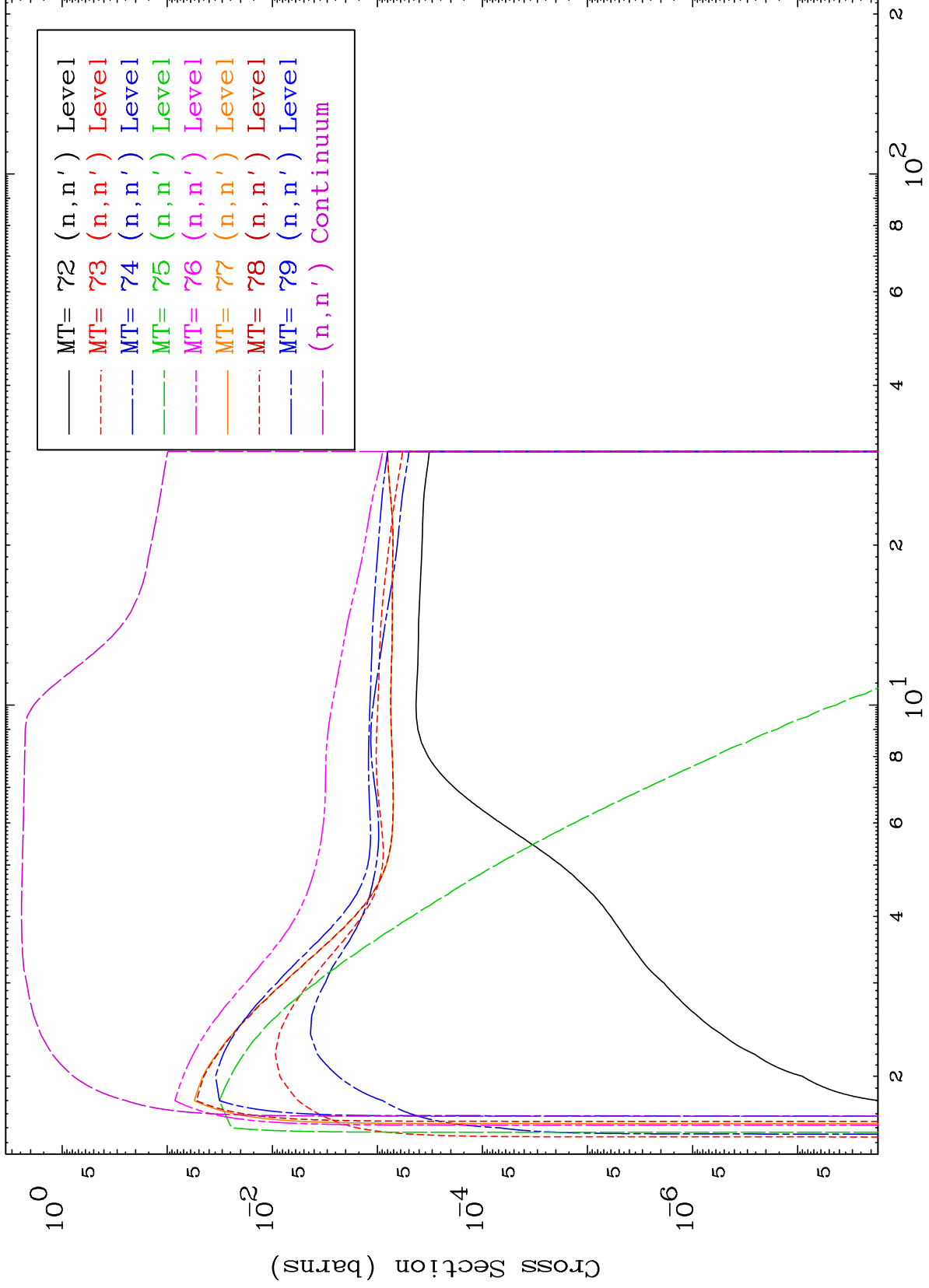


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Incident Energy (MeV)

66-Dy-158

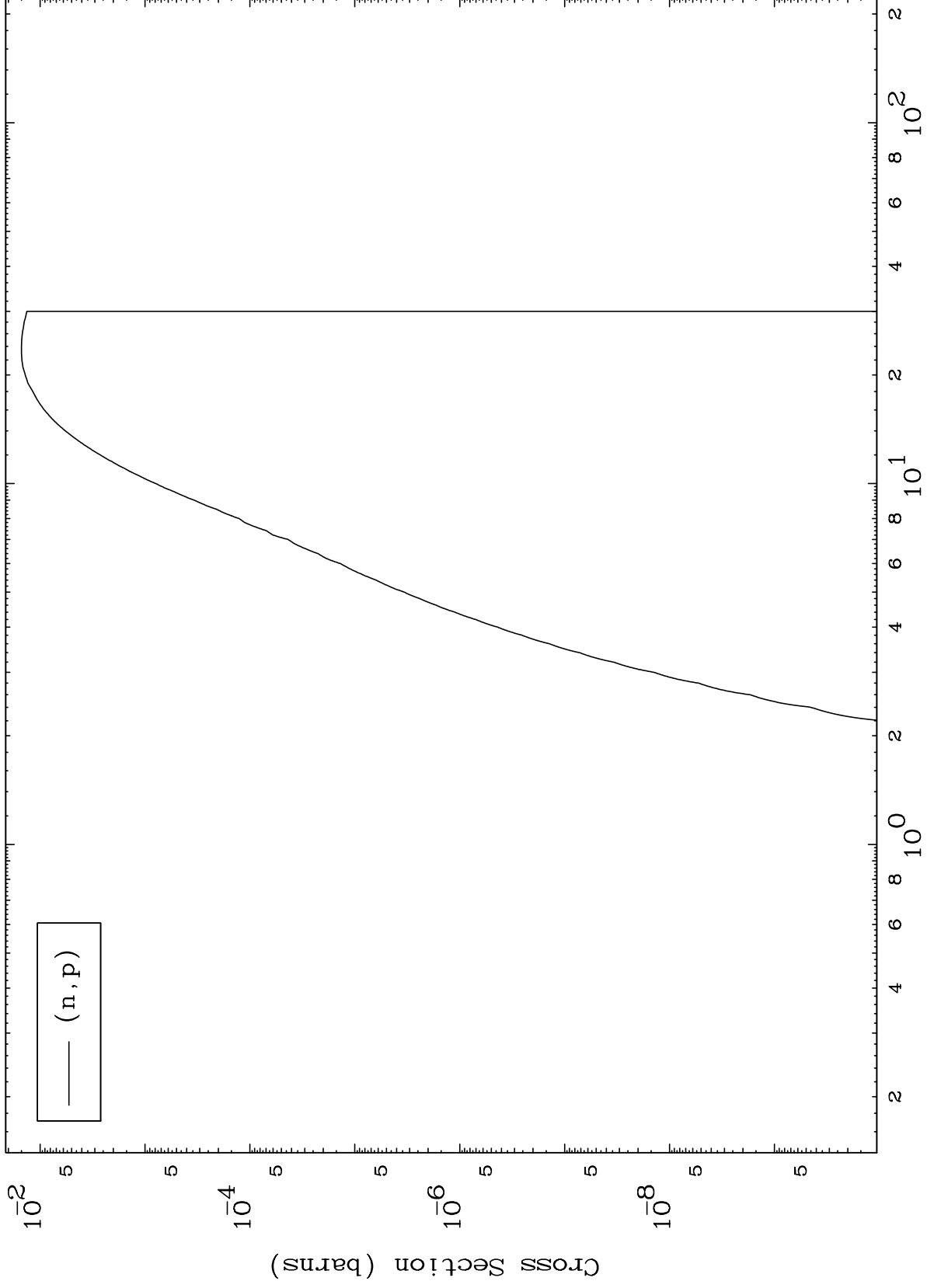
293 Kelvin Cross Sections



MAT 6631

(n,p) Levels  
293 Kelvin Cross Sections

66-Dy-158



10

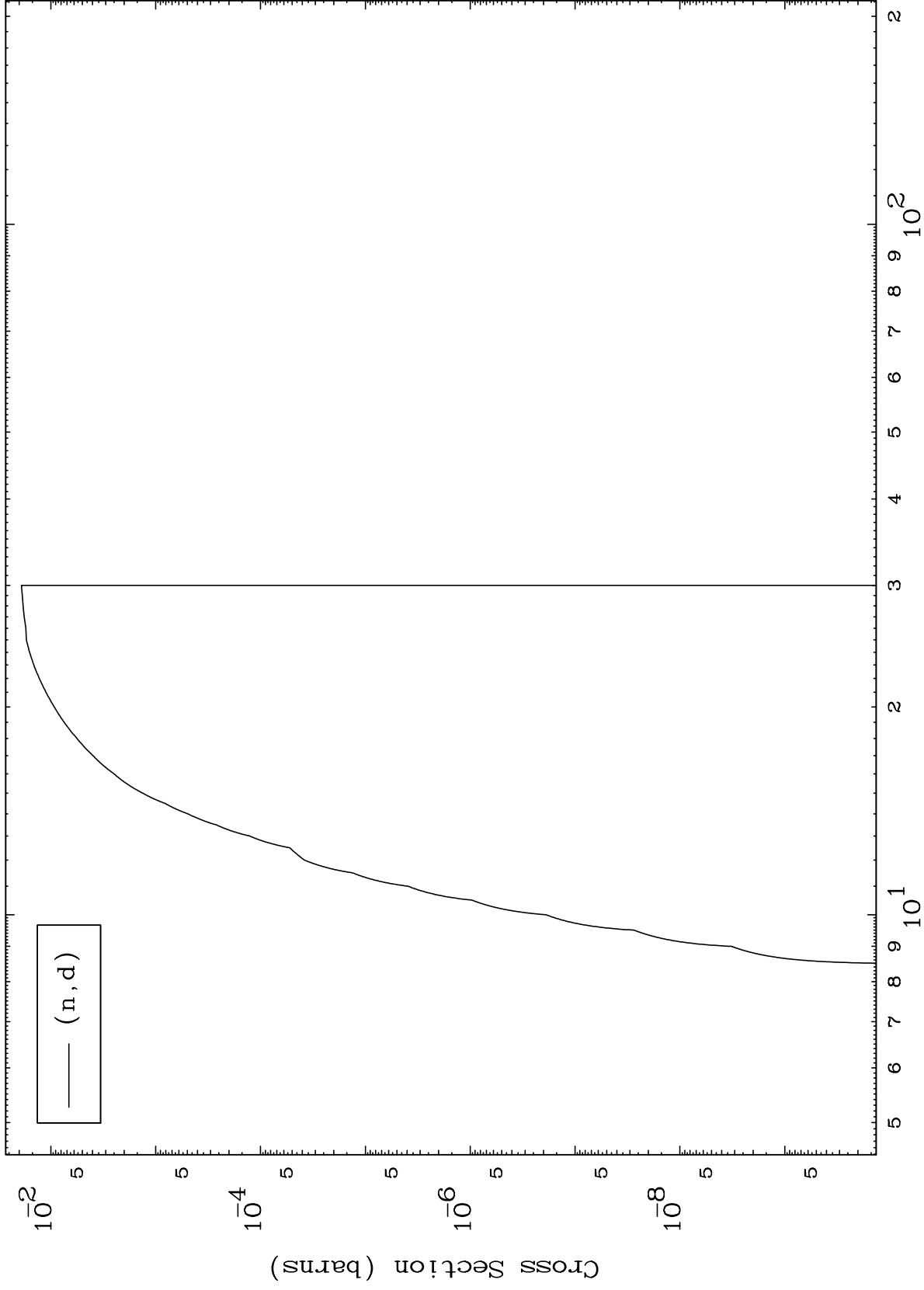
Incident Energy (MeV)

66-Dy-158

MAT 6631

(n,d) Levels  
293 Kelvin Cross Sections

66-Dy-158



11

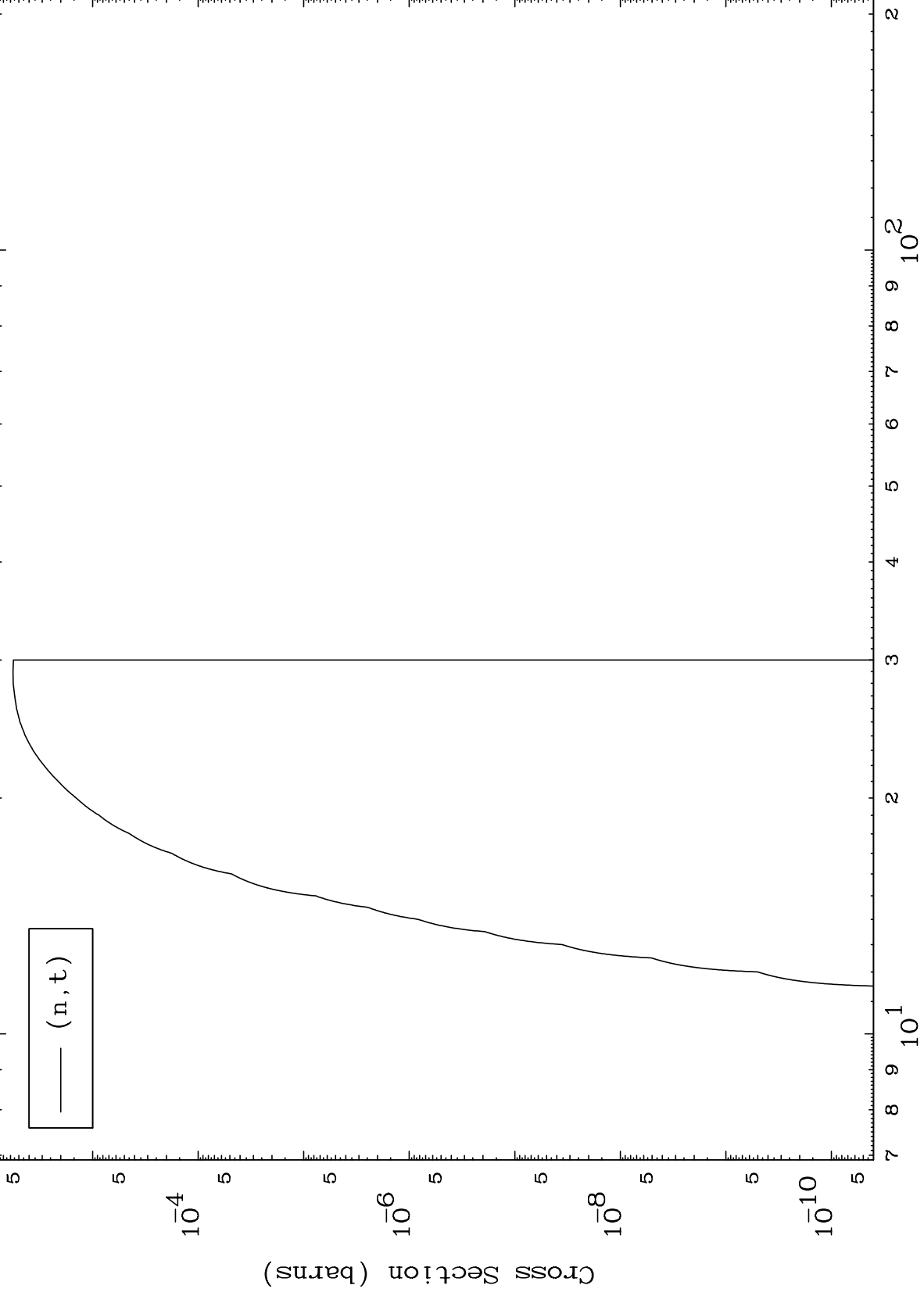
Incident Energy (MeV)

66-Dy-158

MAT 6631

(n,t) Levels  
293 Kelvin Cross Sections

66-Dy-158



12

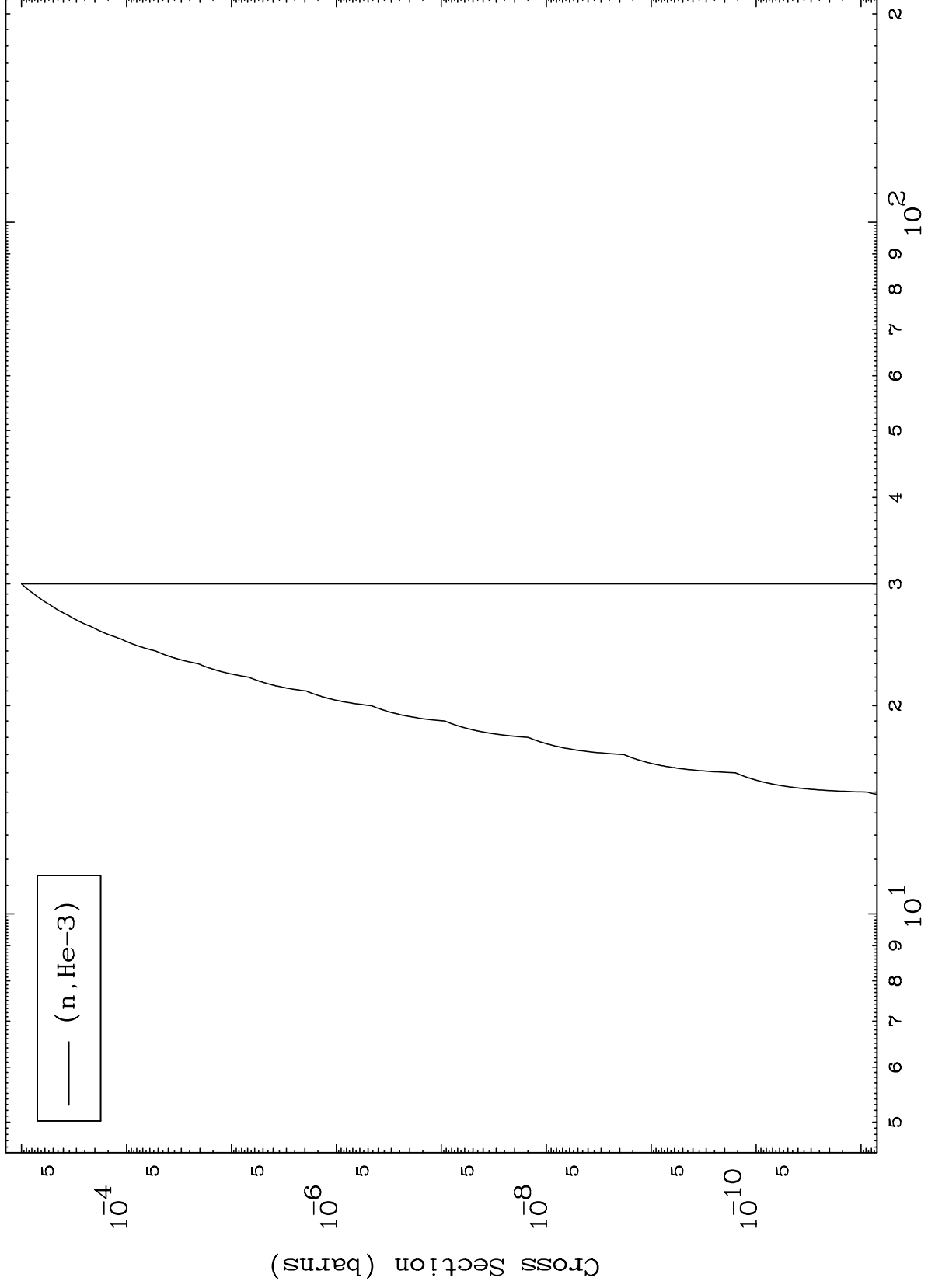
Incident Energy (MeV)

66-Dy-158

MAT 6631

(n,He3) Levels  
293 Kelvin Cross Sections

66-Dy-158



13

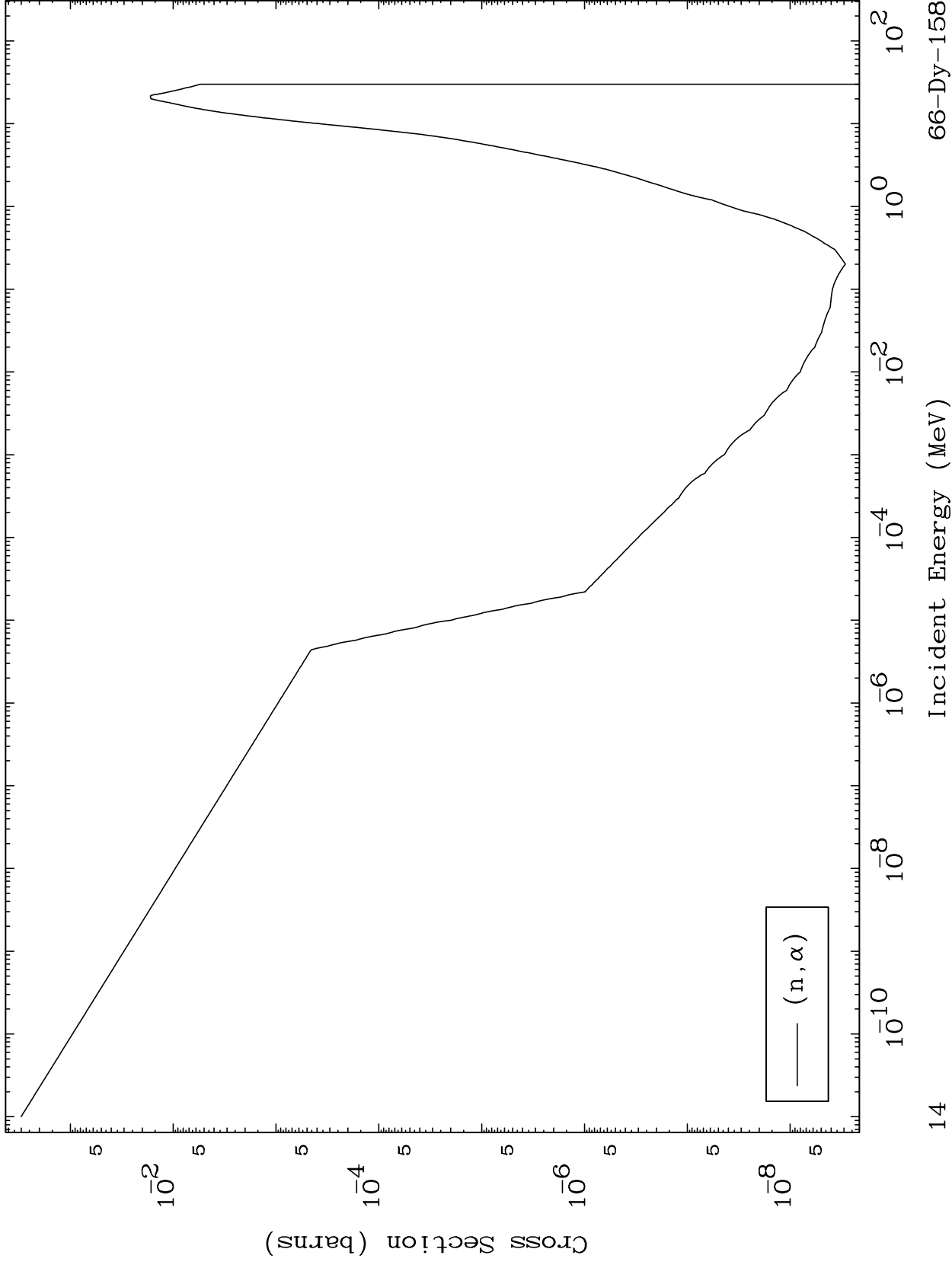
Incident Energy (MeV)

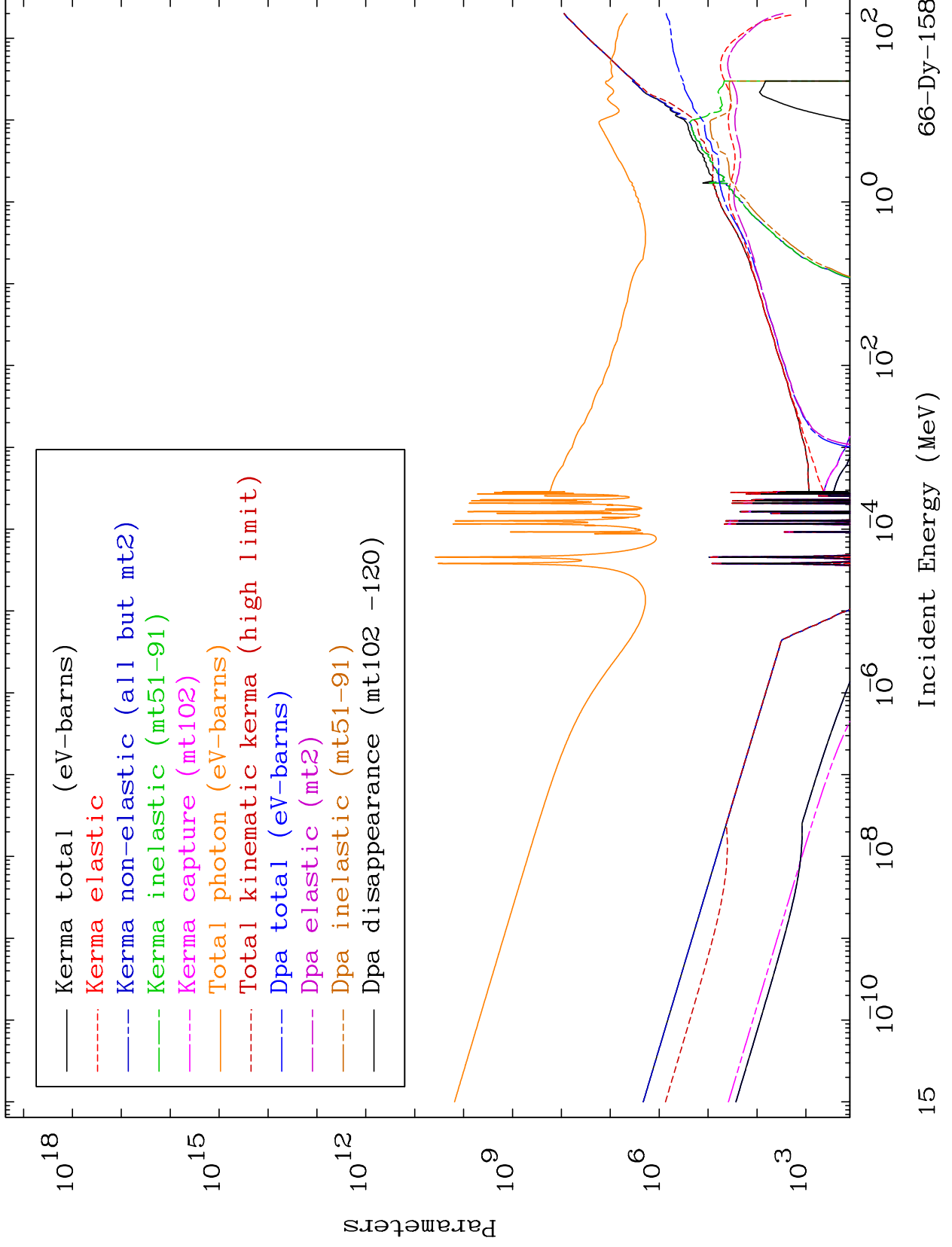
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MAT 6631

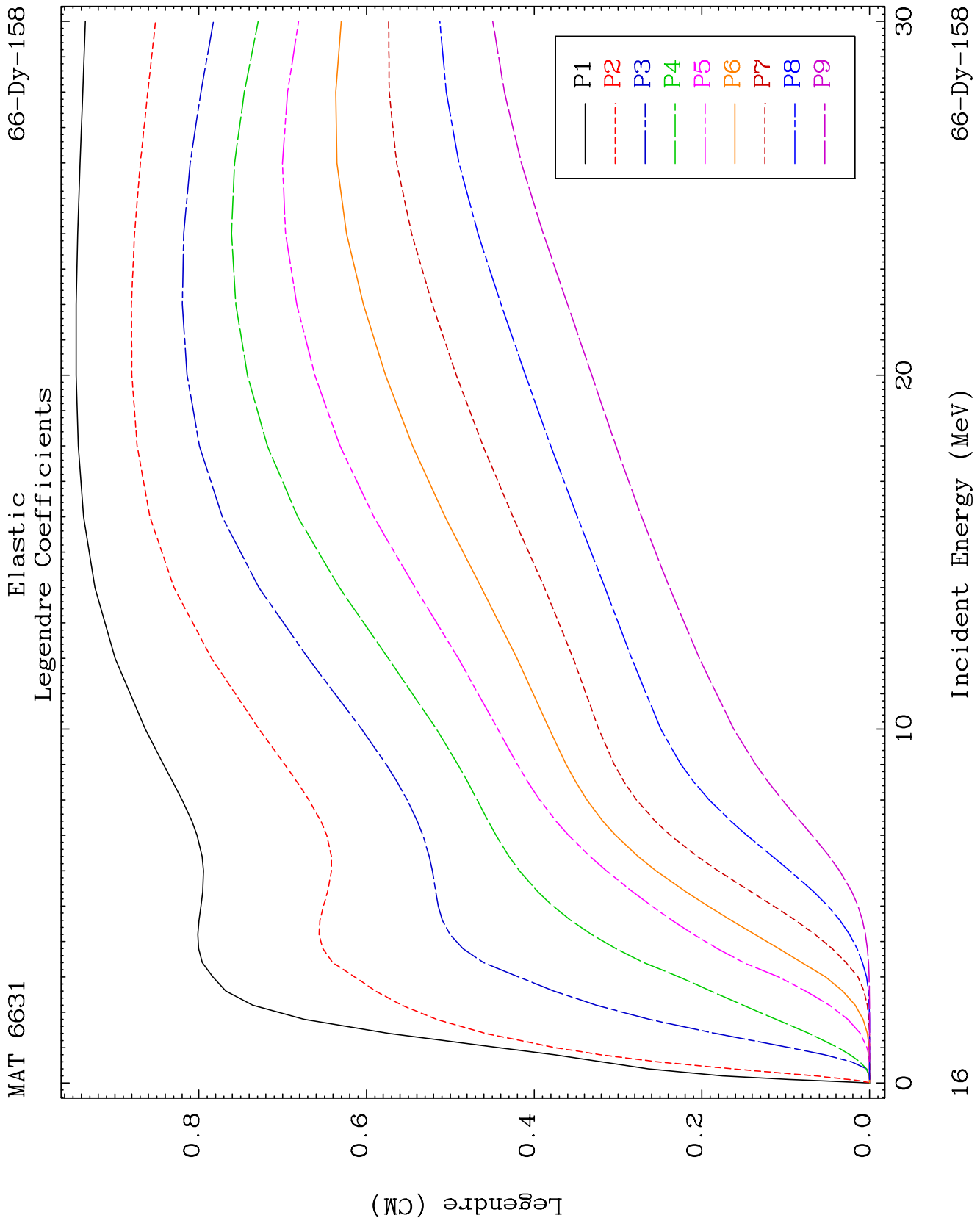
(n,α) Levels  
293 Kelvin Cross Sections

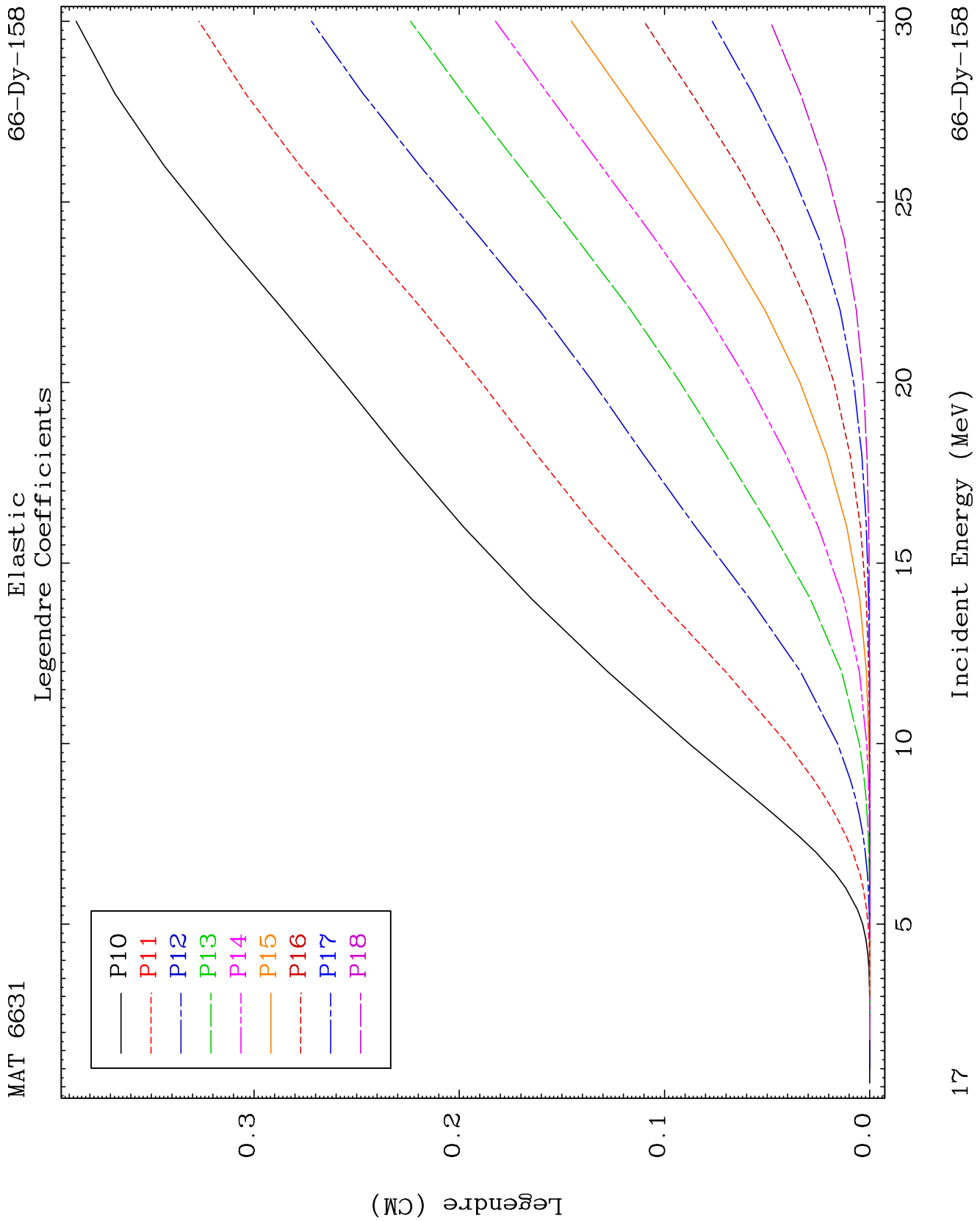
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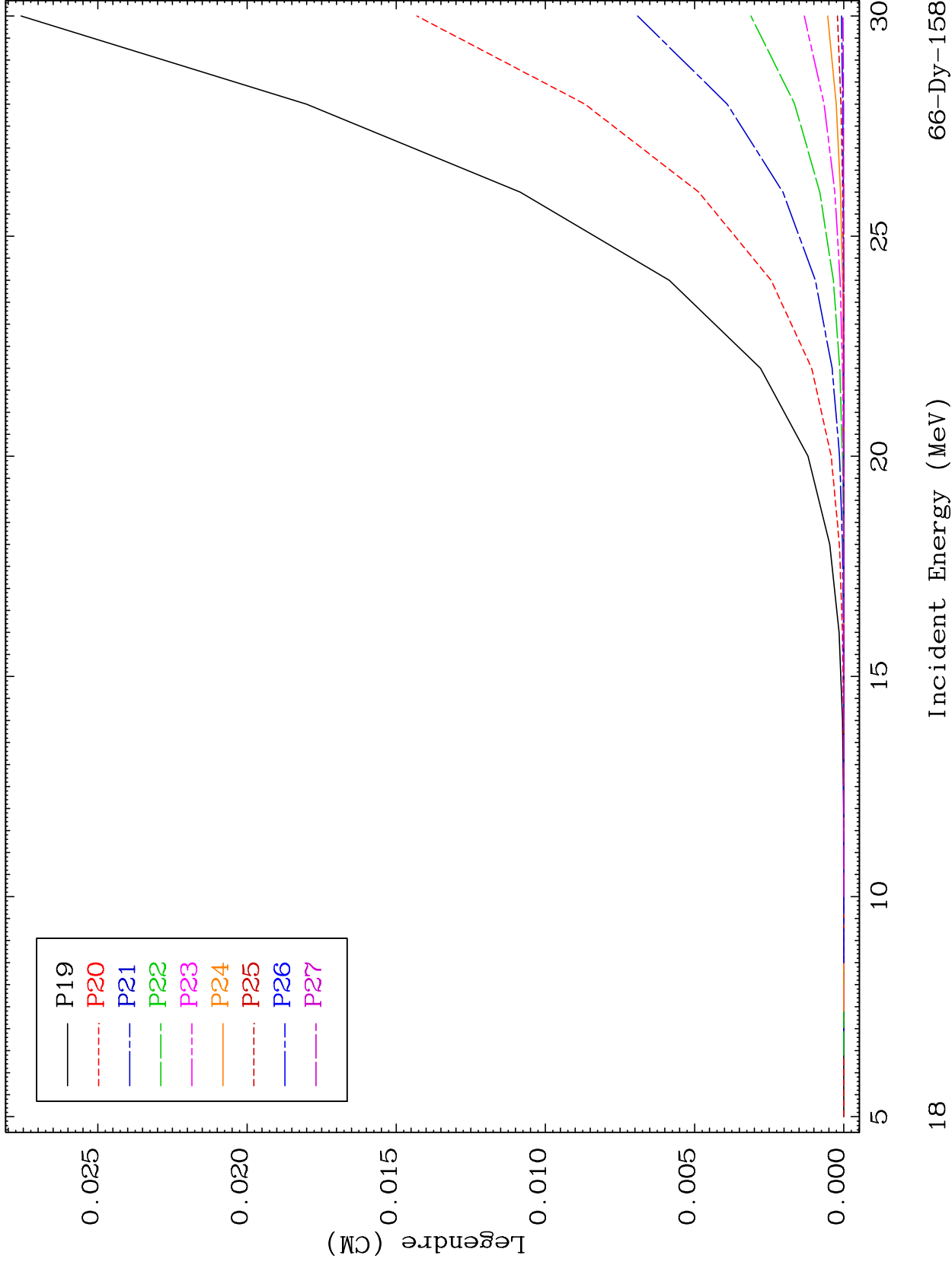




MAT 6631

### Elastic Legendre Coefficients

66-Dy-158



66-Dy-158

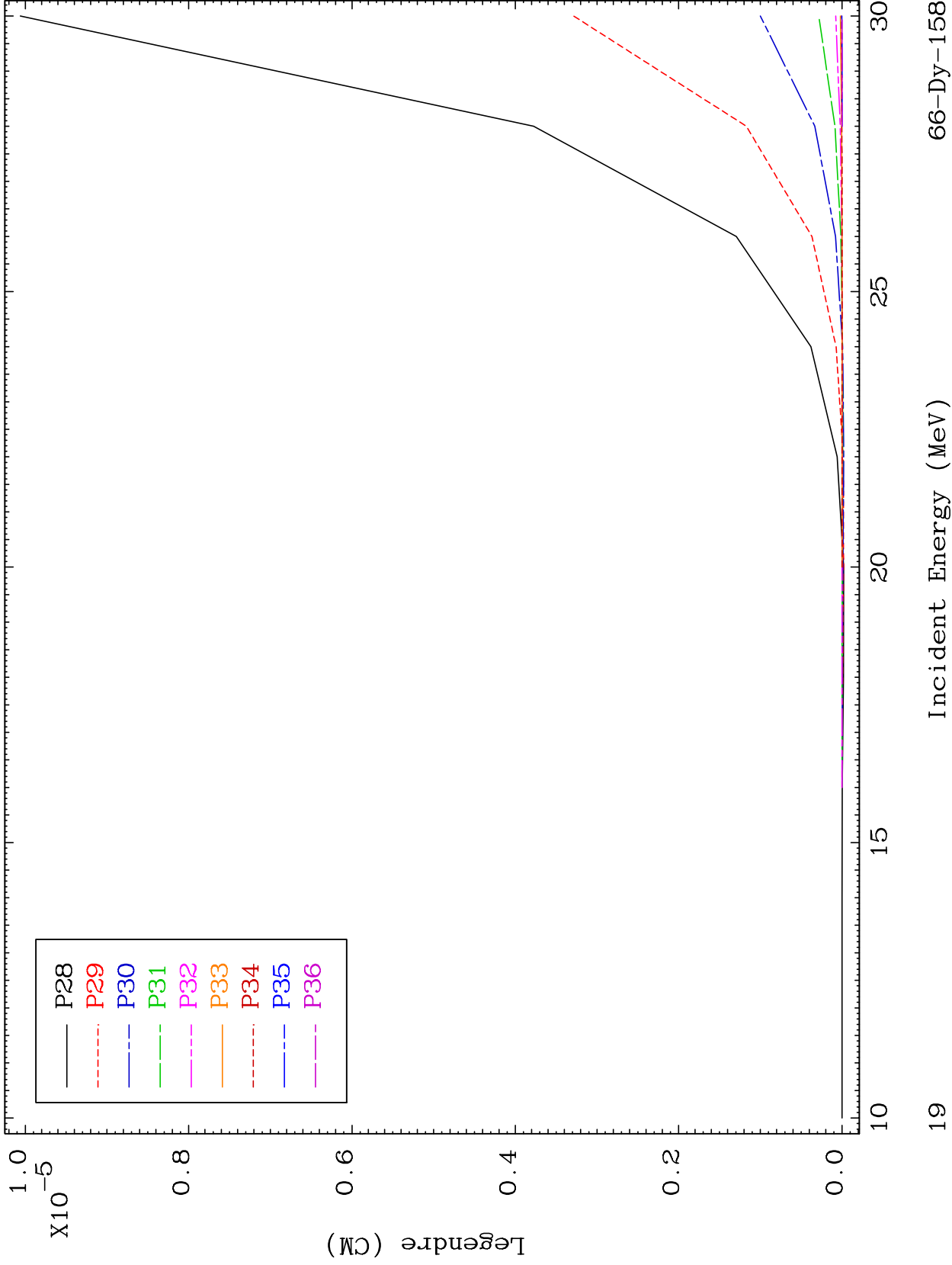
Incident Energy (MeV)

18

MAT 6631

Elastic Legendre Coefficients

66-Dy-158



19

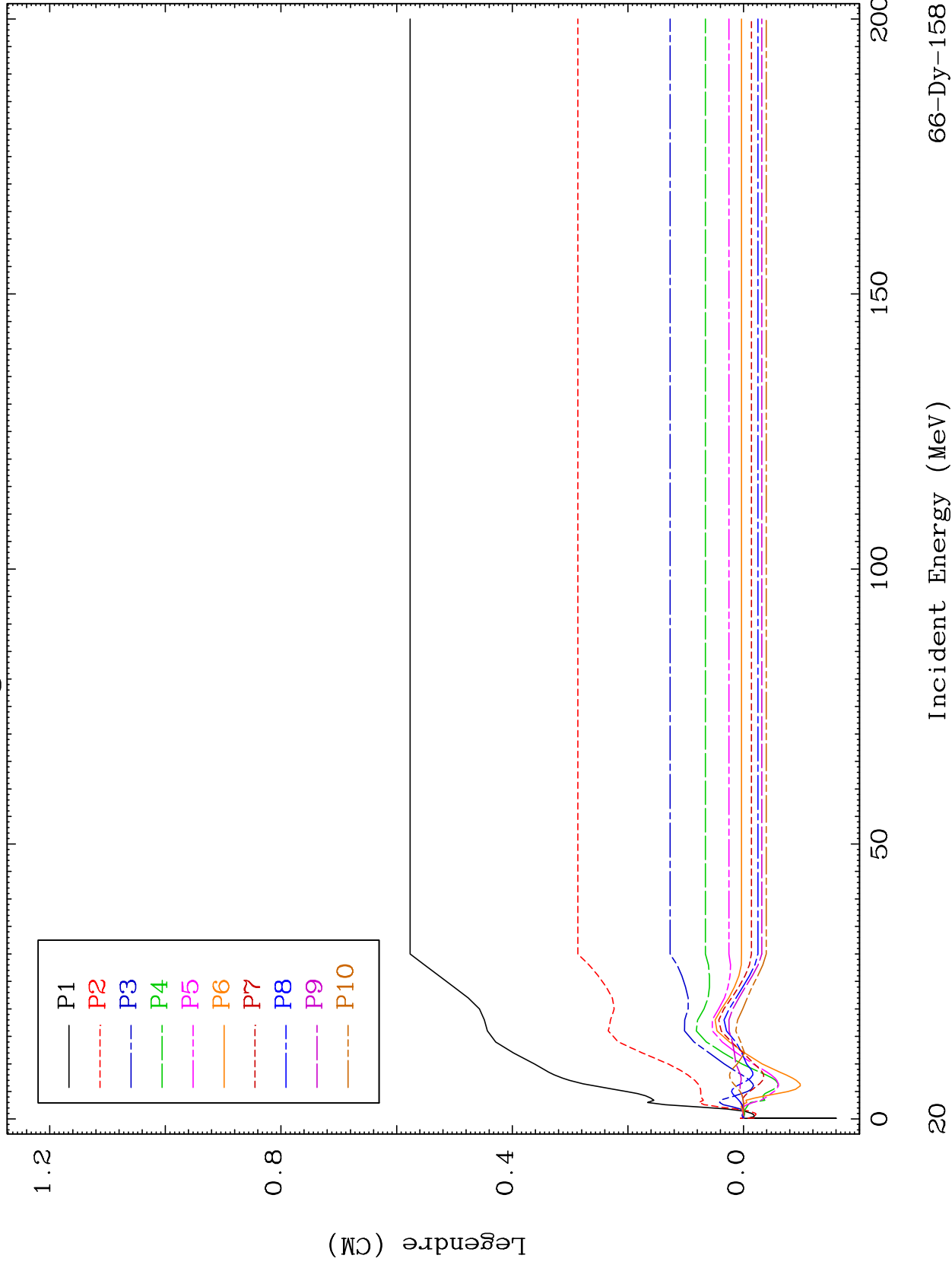
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

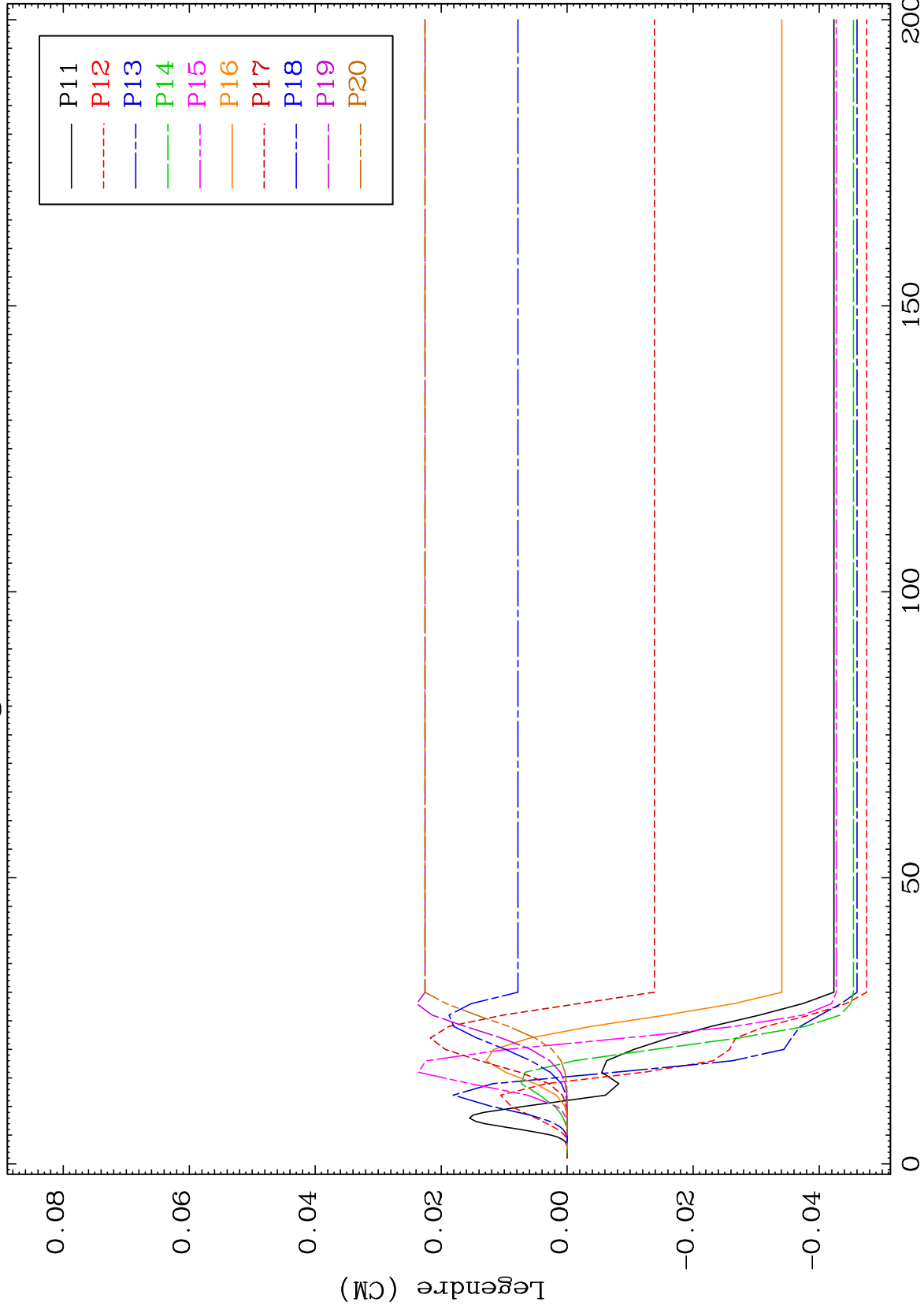
66-Dy-158



MAT 6631

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

66-Dy-158



21

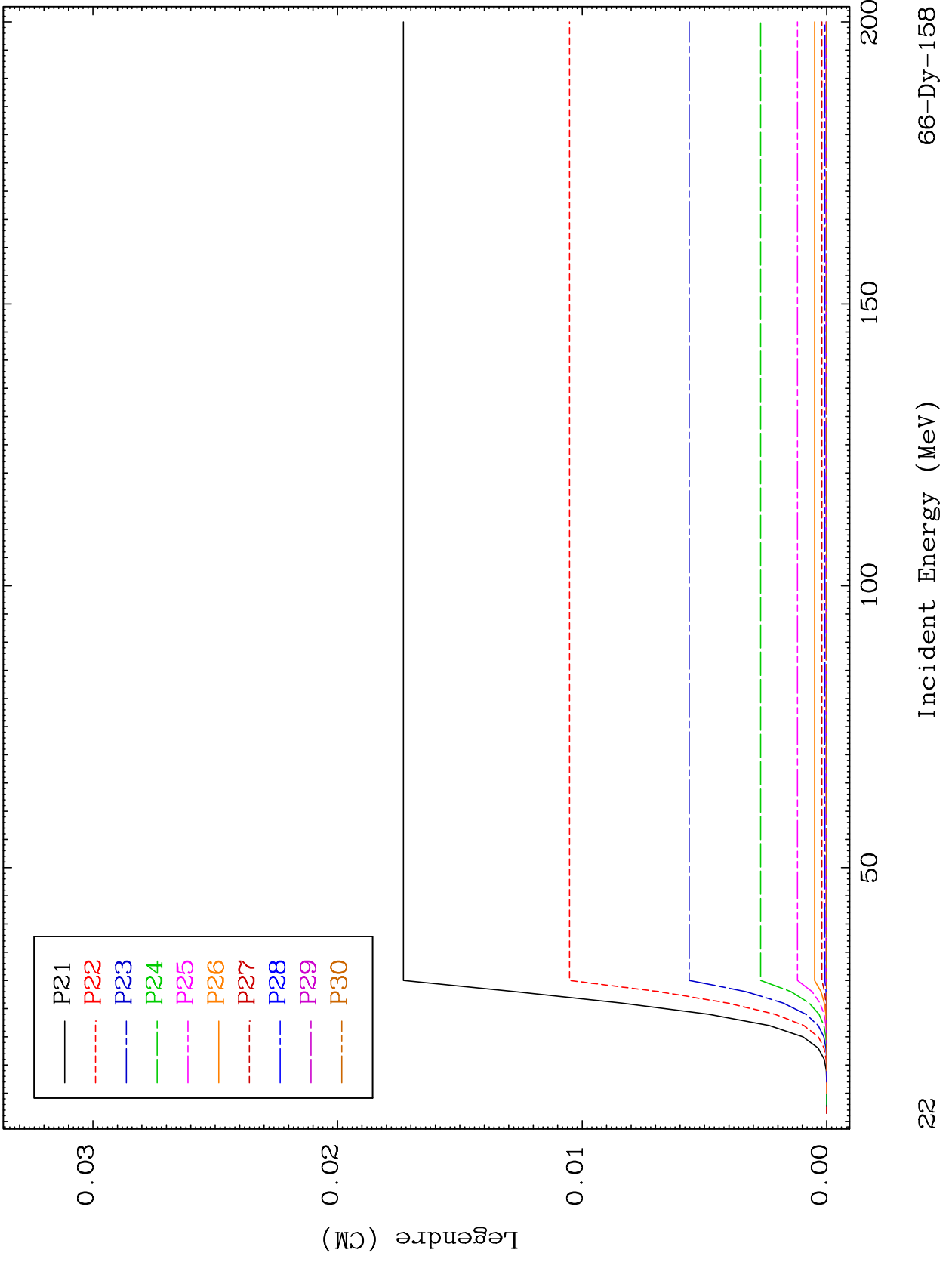
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158

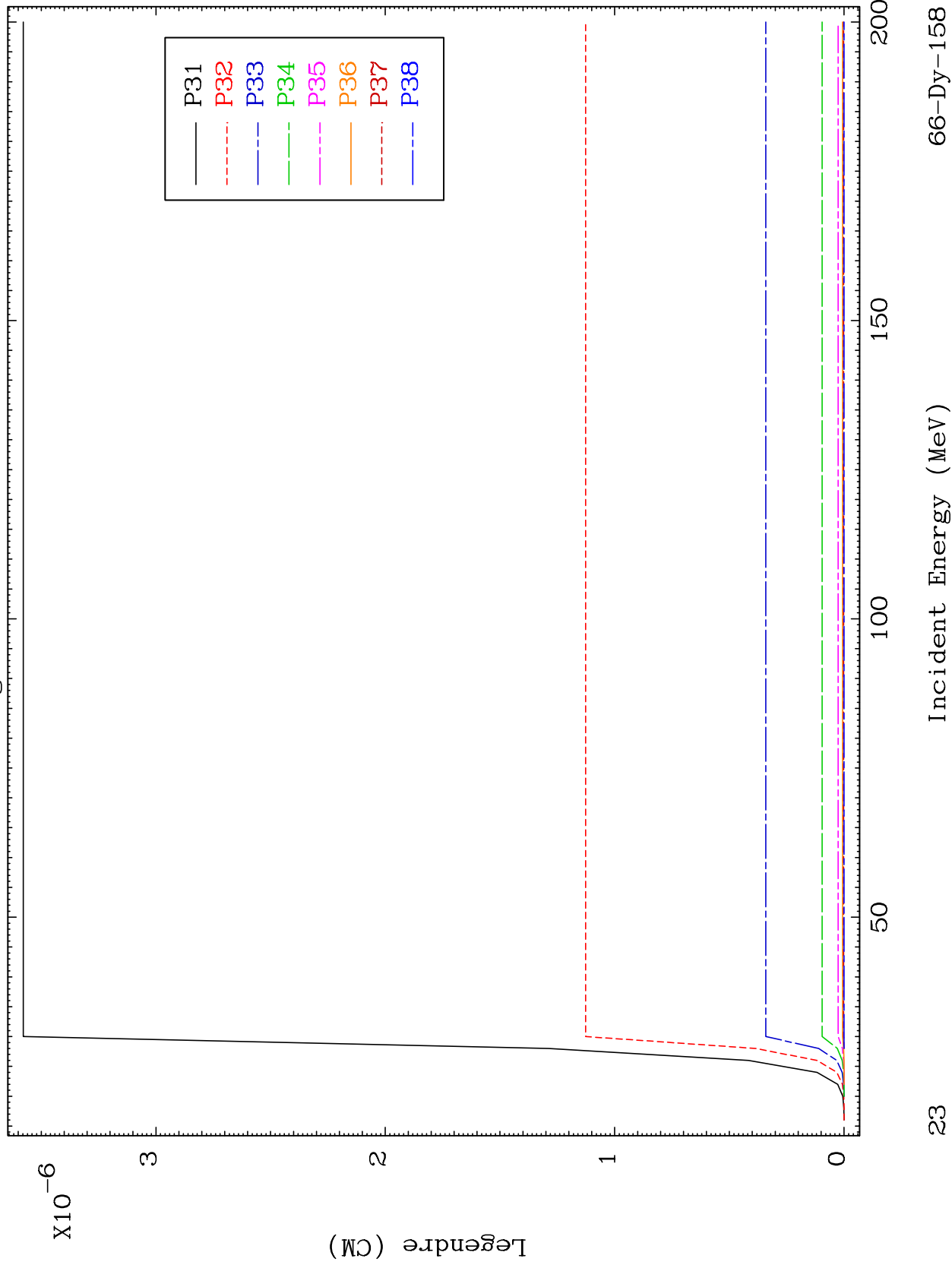


22

MAT 6631

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

66-Dy-158

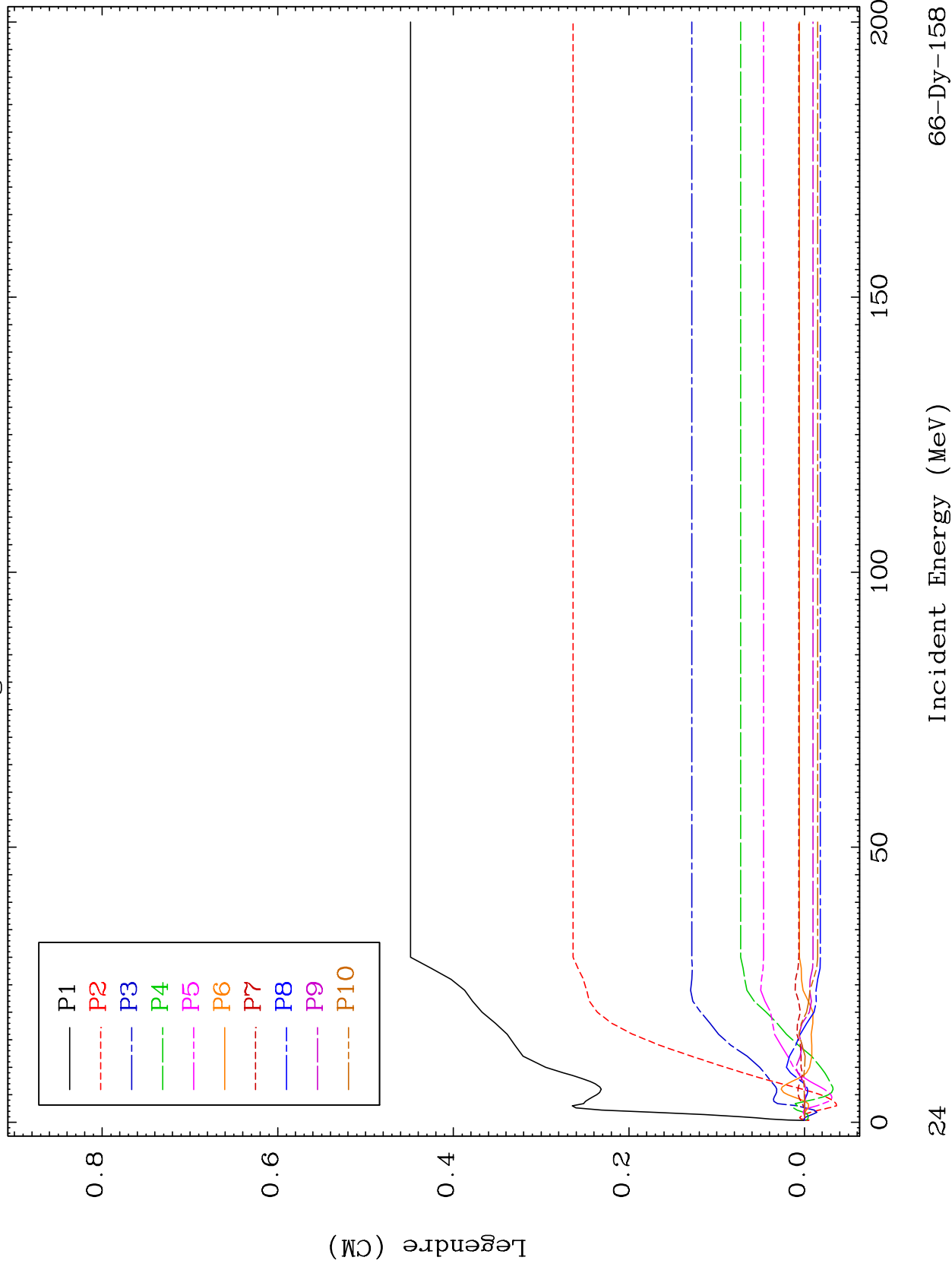




MAT 6631

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

66-Dy-158



66-Dy-158

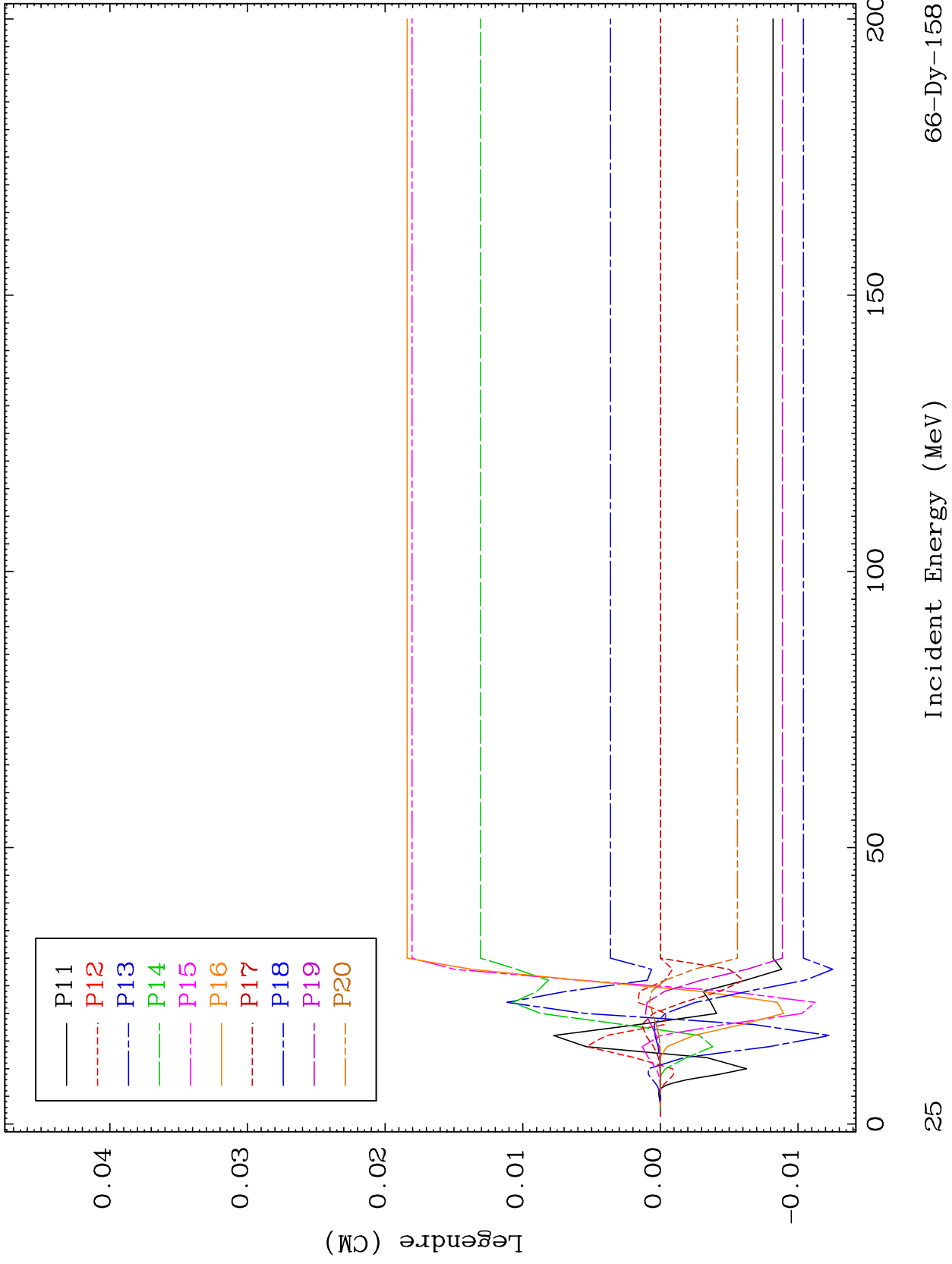
Incident Energy (MeV)

24

MAT 6631

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

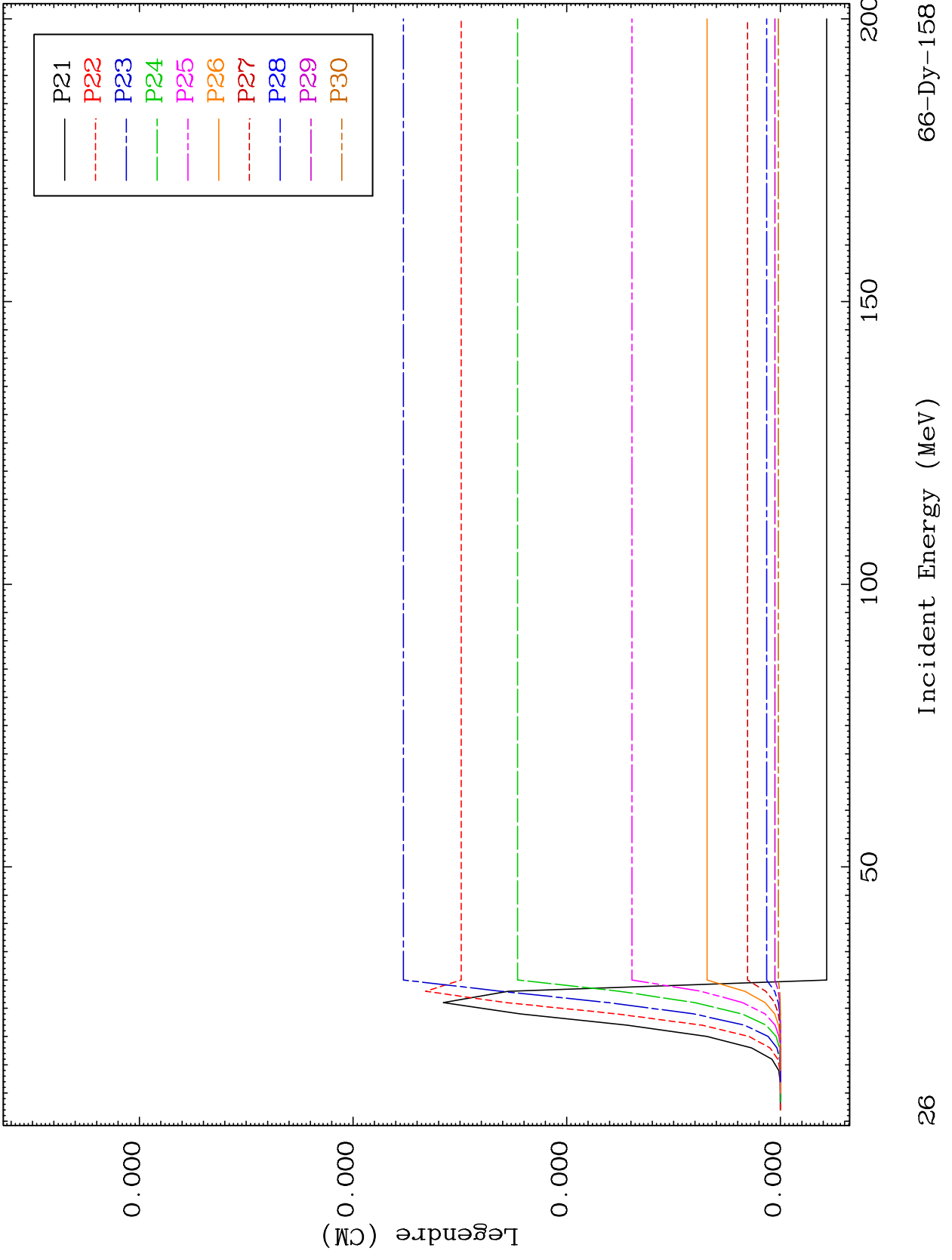
66-Dy-158



MAT 6631

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

66-Dy-158



26

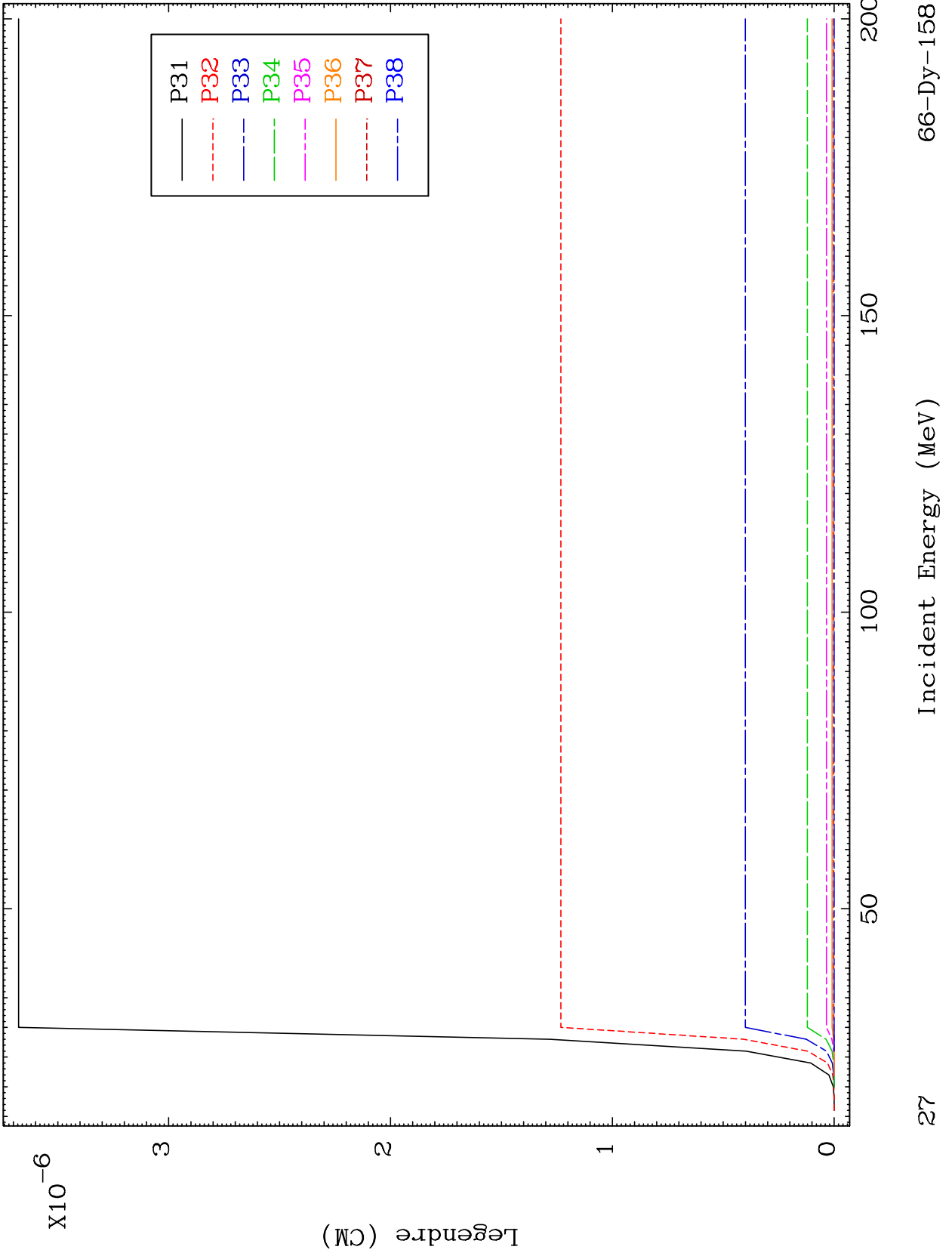
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

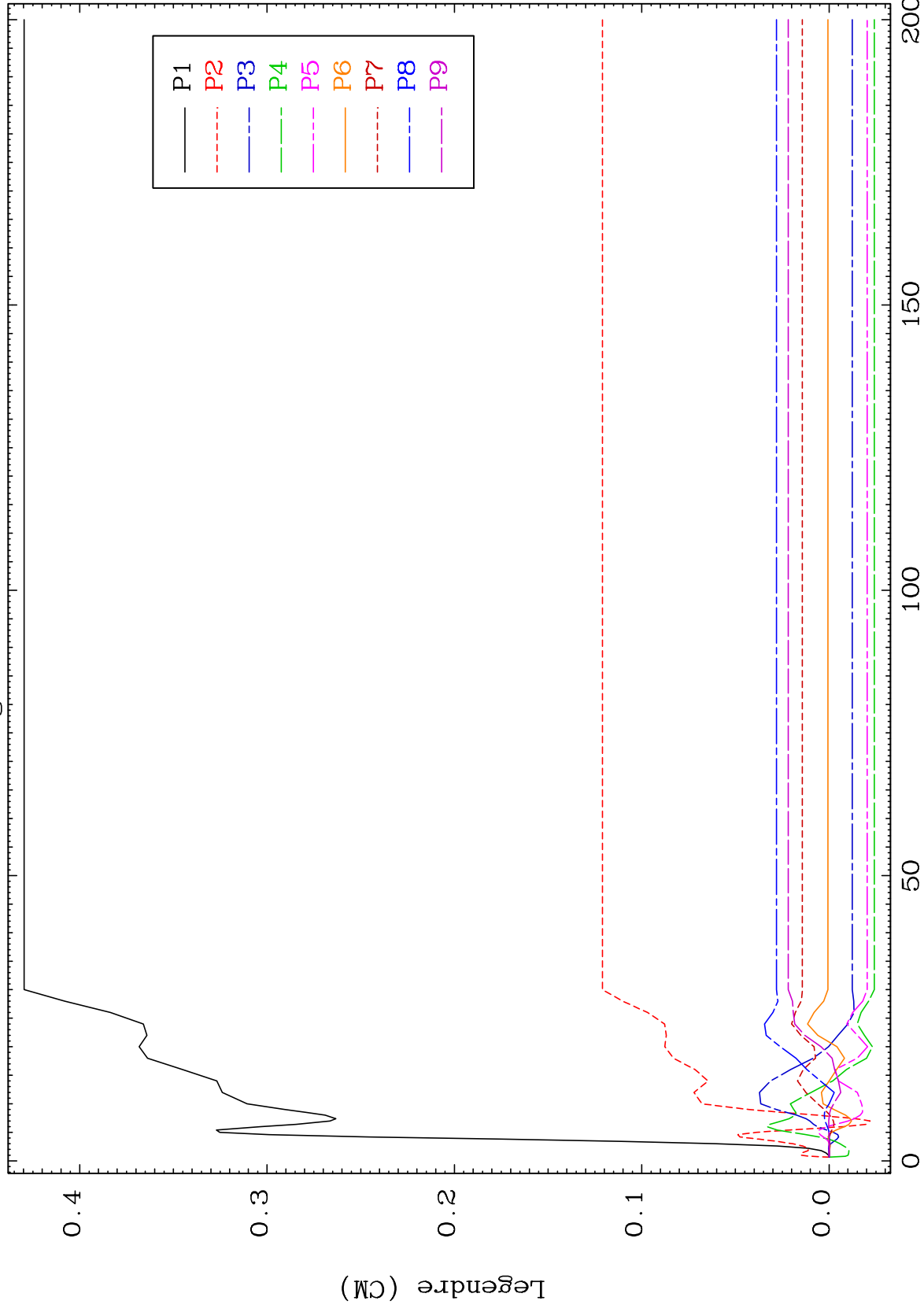
66-Dy-158



MAT 6631

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

66-Dy-158



28

Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



29

Incident Energy (MeV)

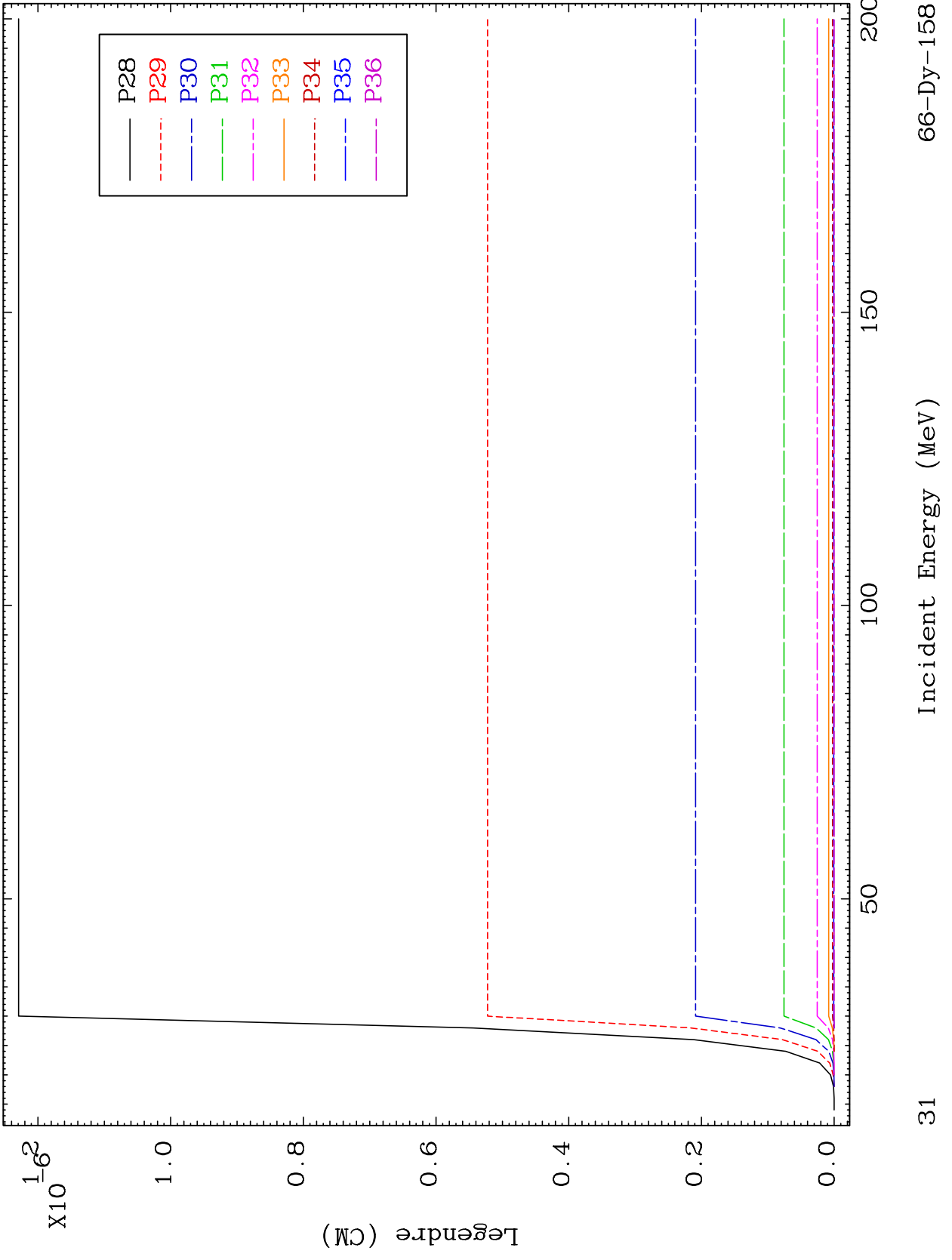
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MAT 6631

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

66-Dy-158



31

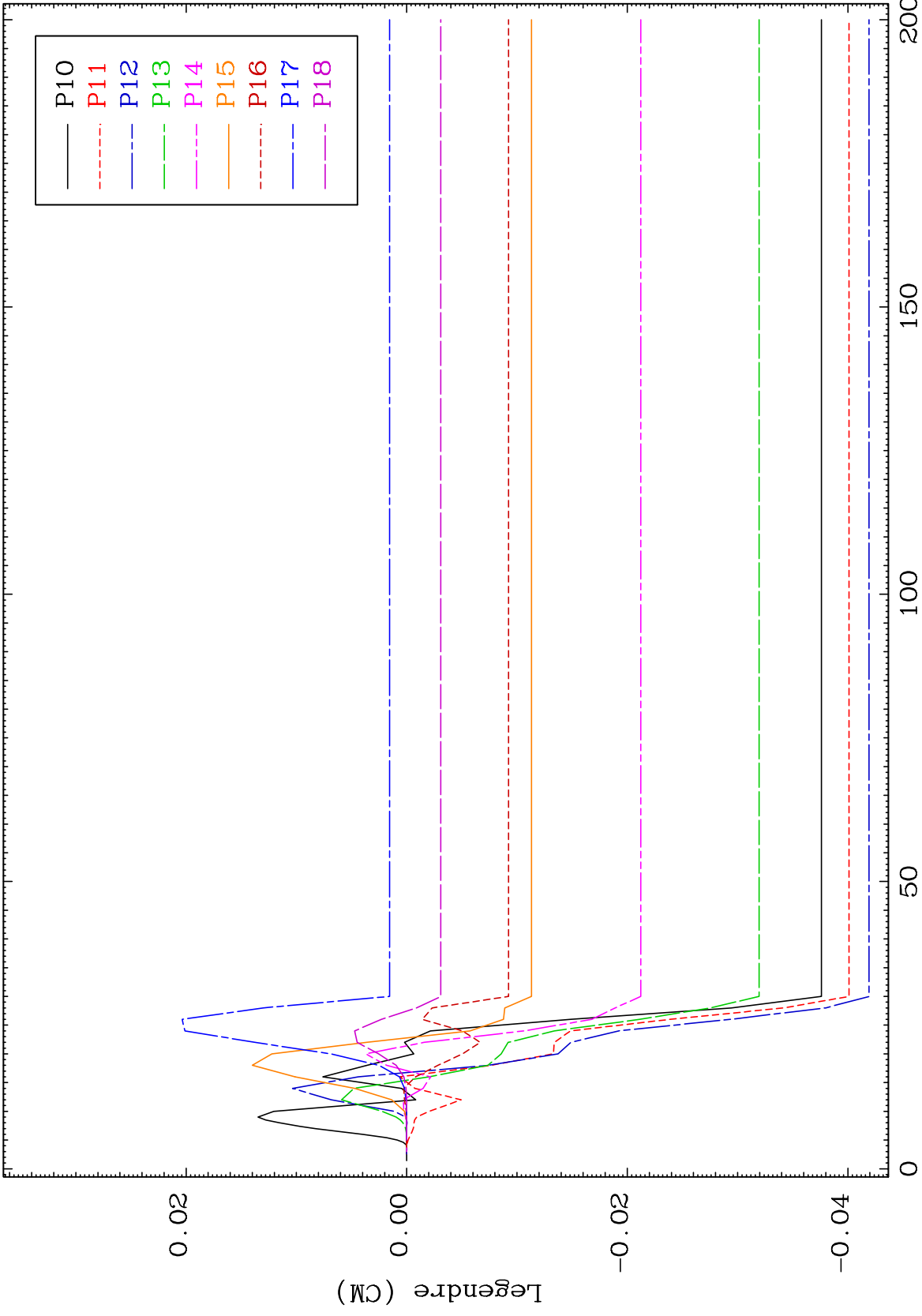




MAT 6631

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

66-Dy-158



33

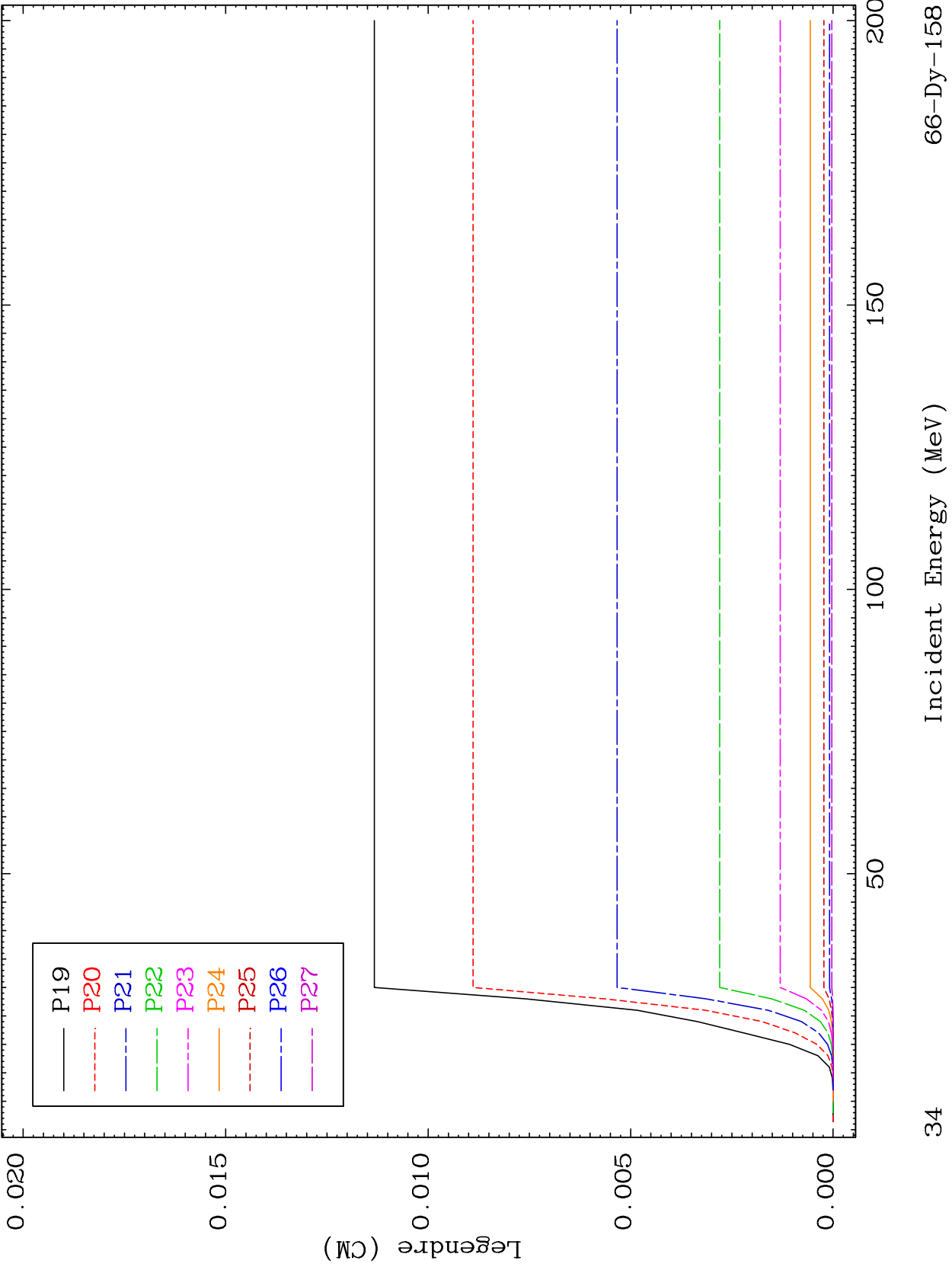
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



34

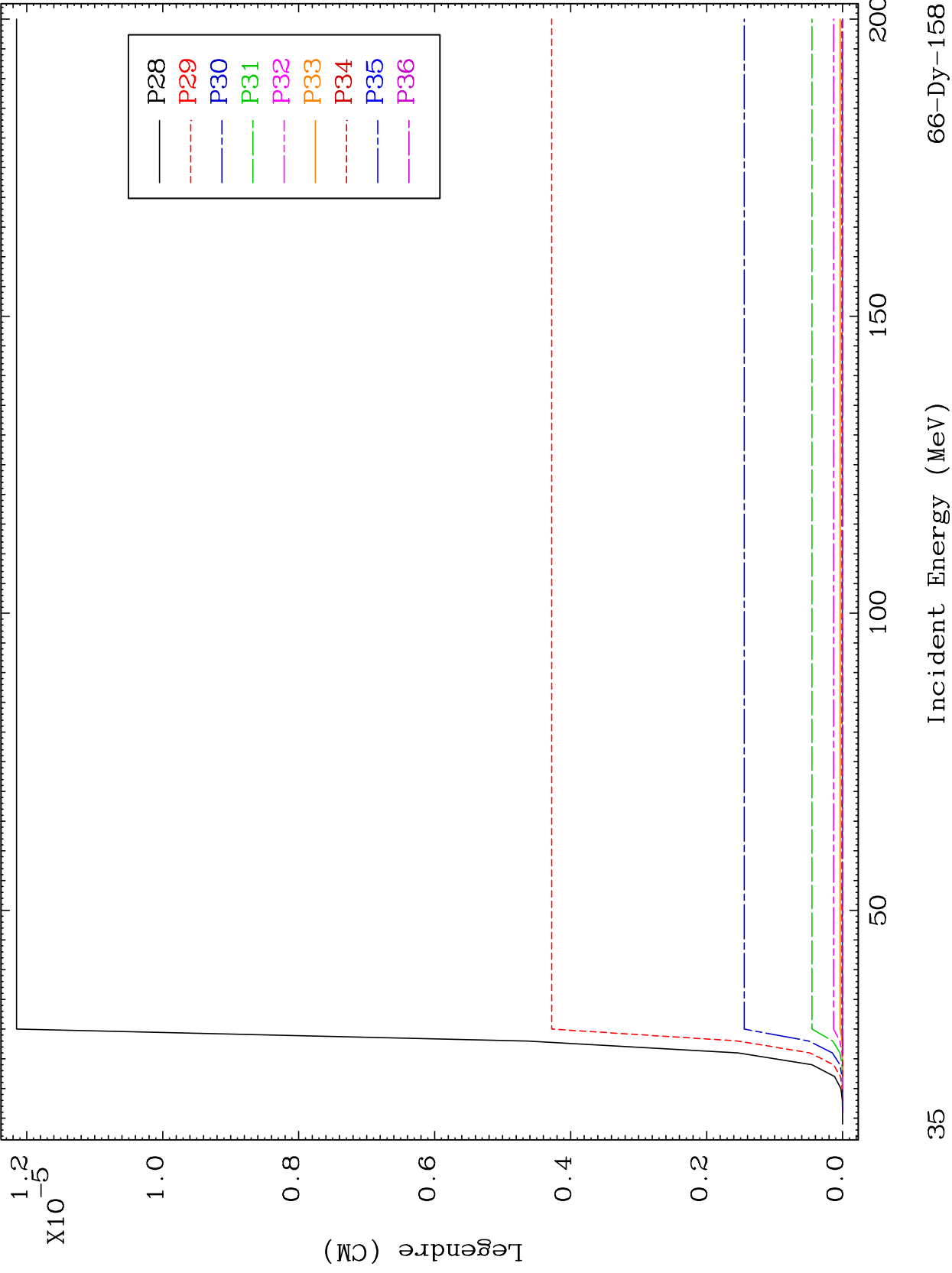
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



35

Incident Energy (MeV)

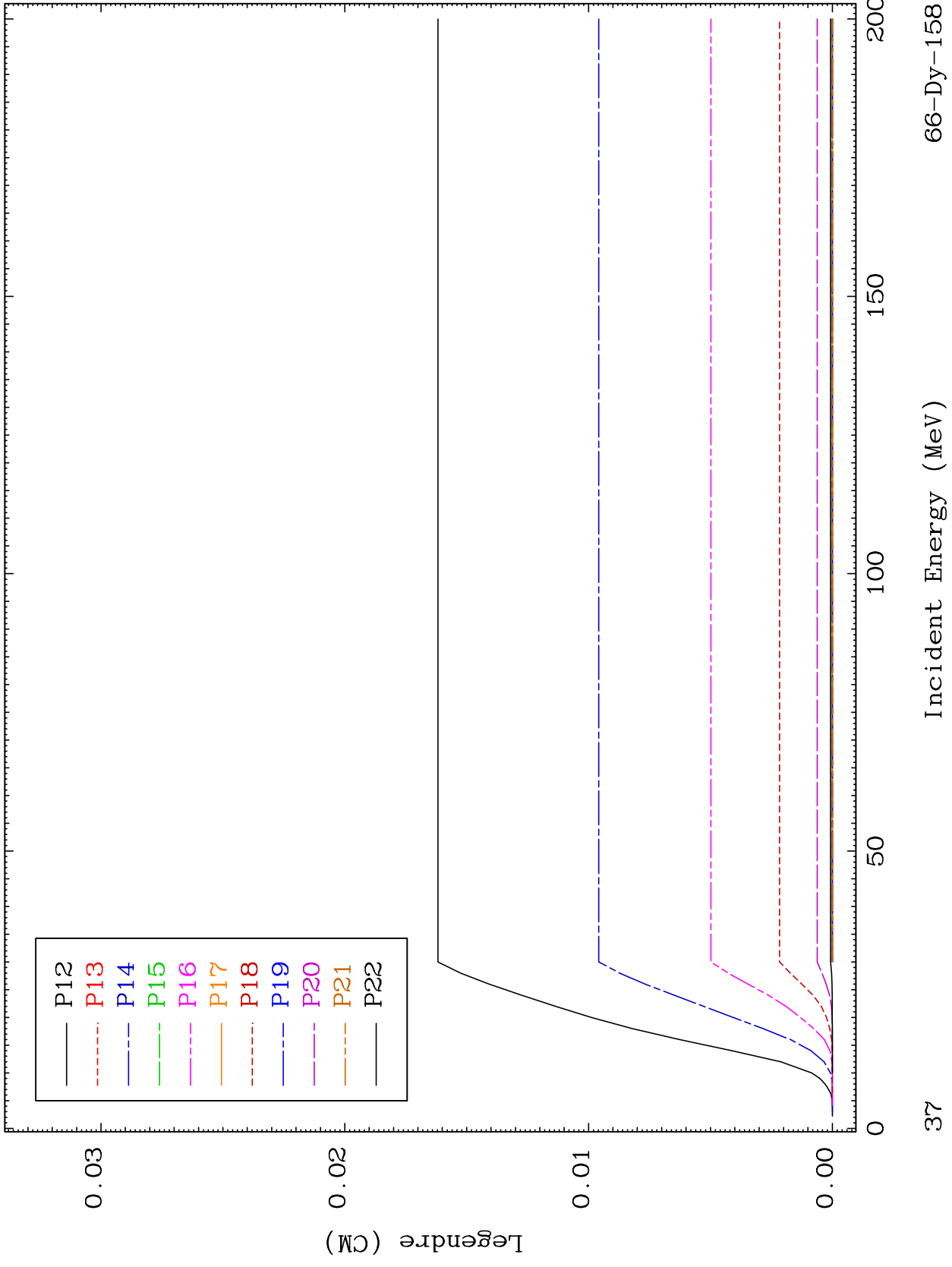
66-Dy-158



MAT 6631

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

66-Dy-158



37

Incident Energy (MeV)

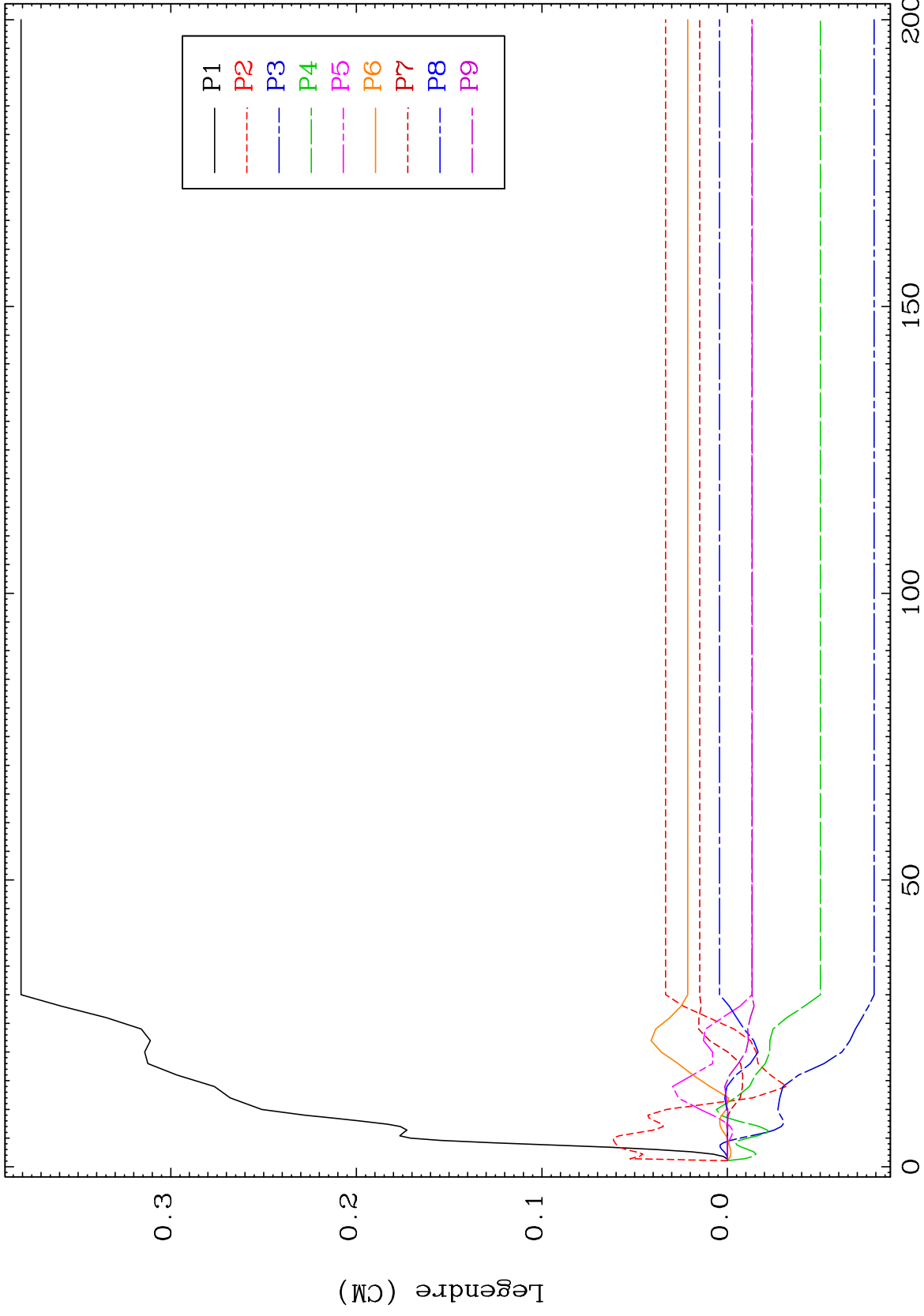
66-Dy-158



MAT 6631

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

66-Dy-158



39

Incident Energy (MeV)

66-Dy-158

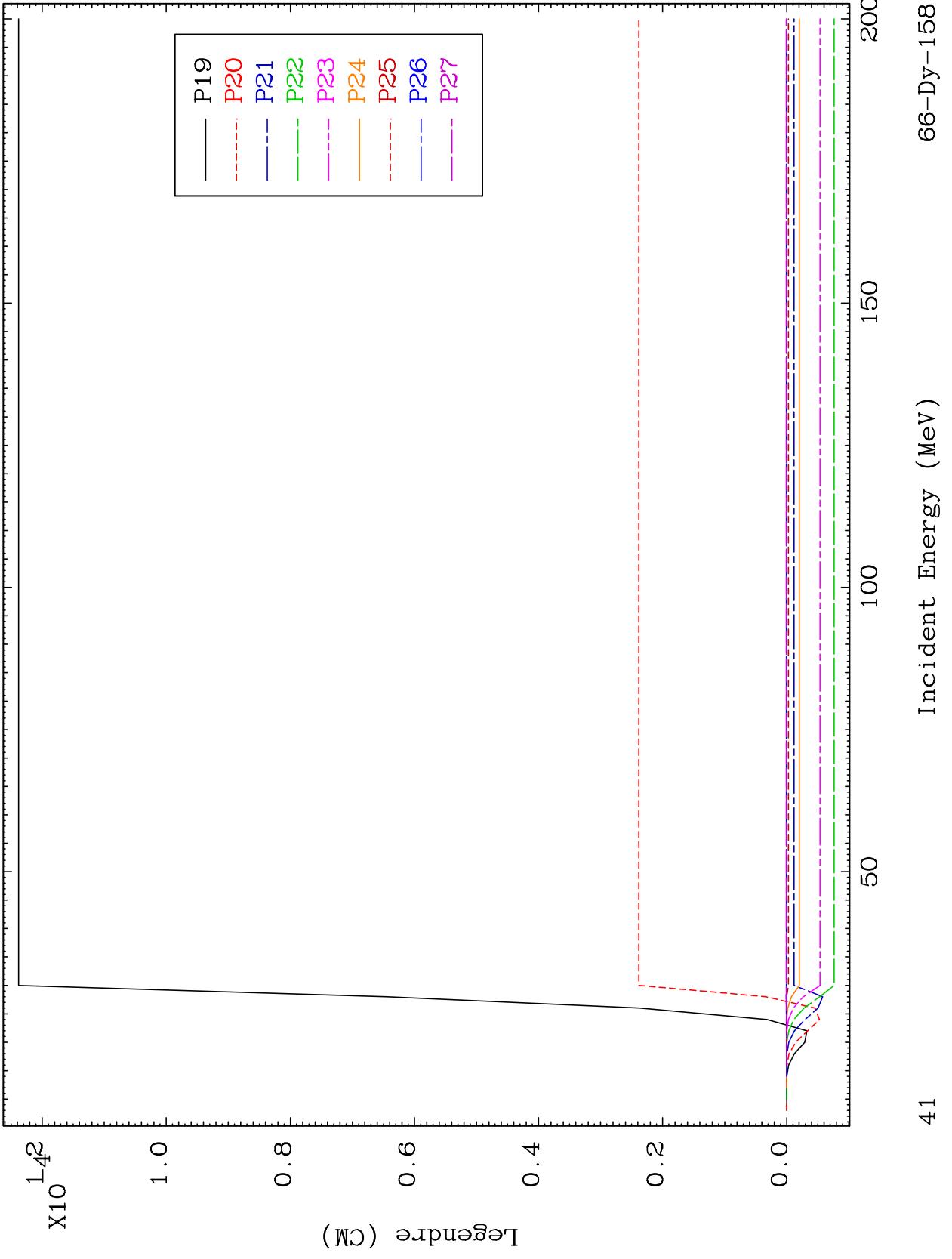




MAT 6631

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

66-Dy-158



41

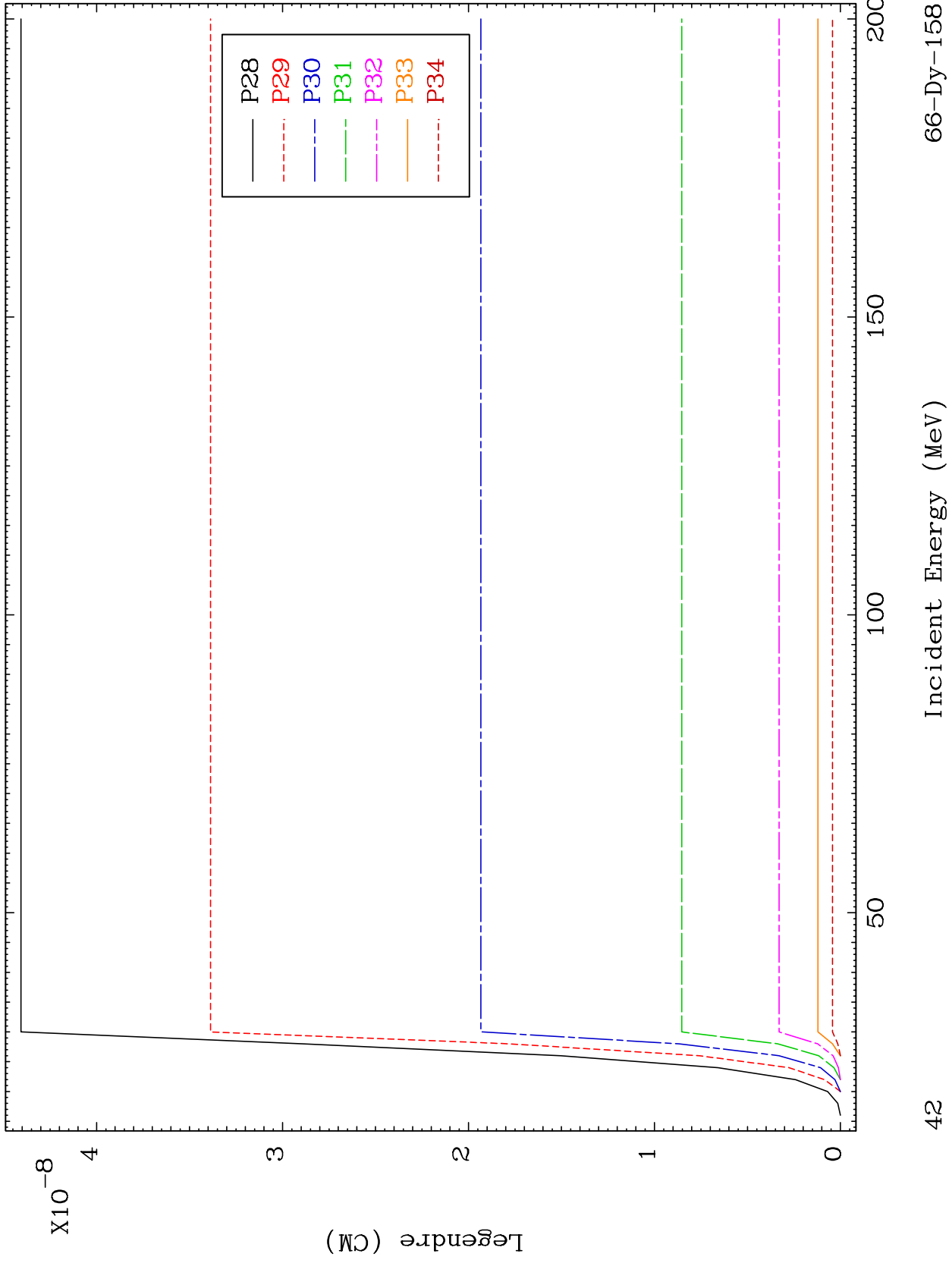
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

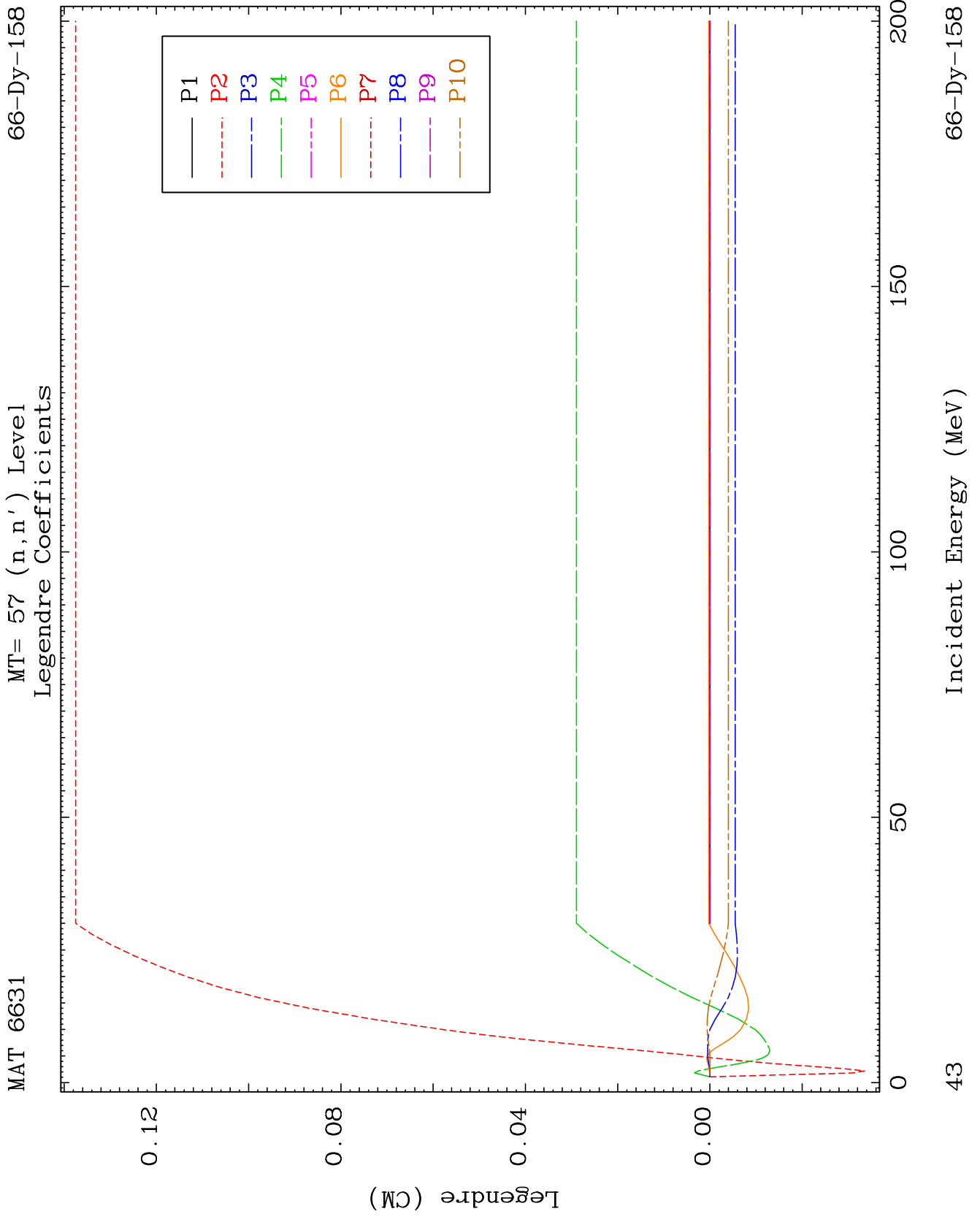
66-Dy-158



42

Incident Energy (MeV)

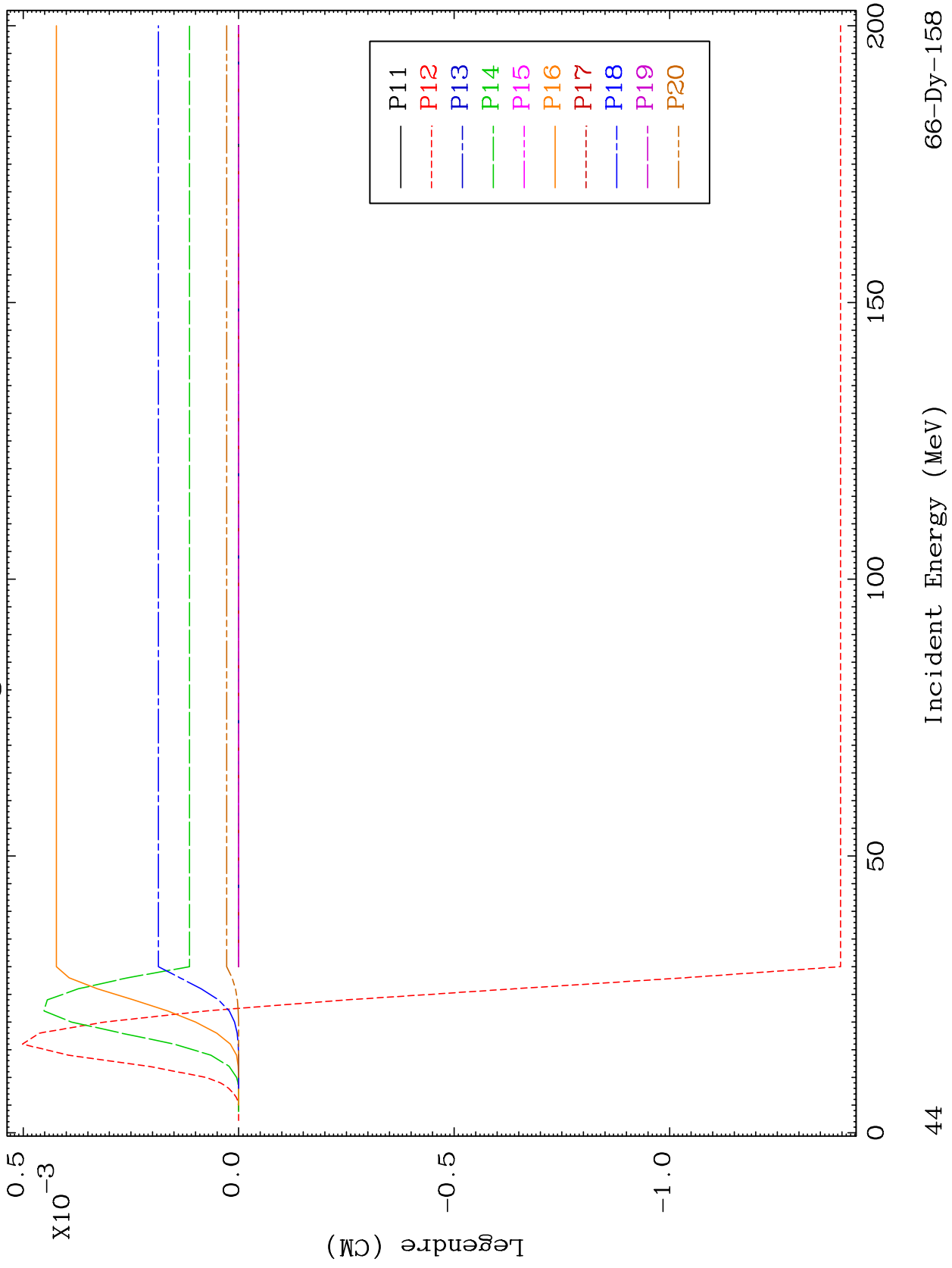
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MAT 6631

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

66-Dy-158



44

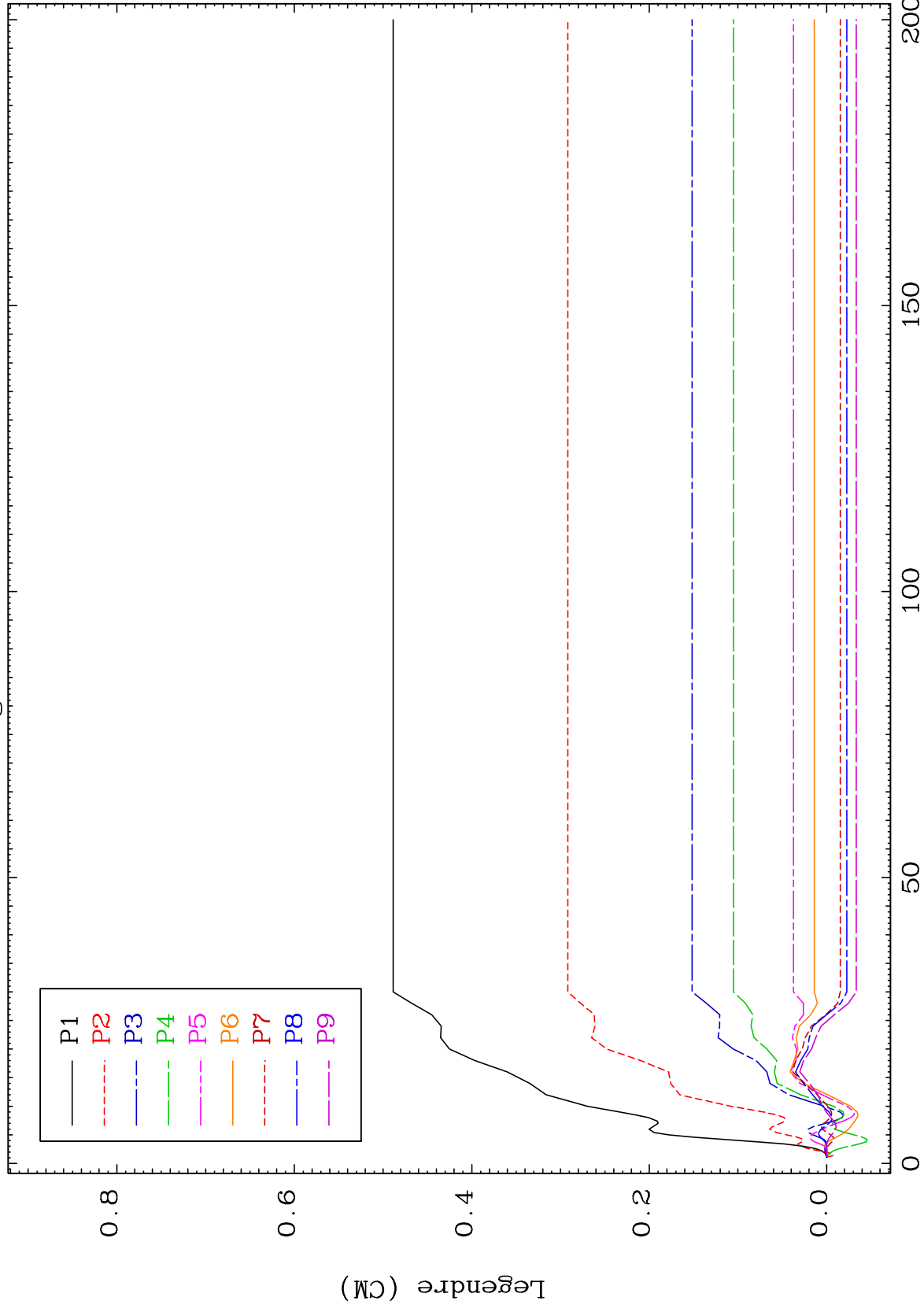
66-Dy-158



MAT 6631

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

66-Dy-158



46

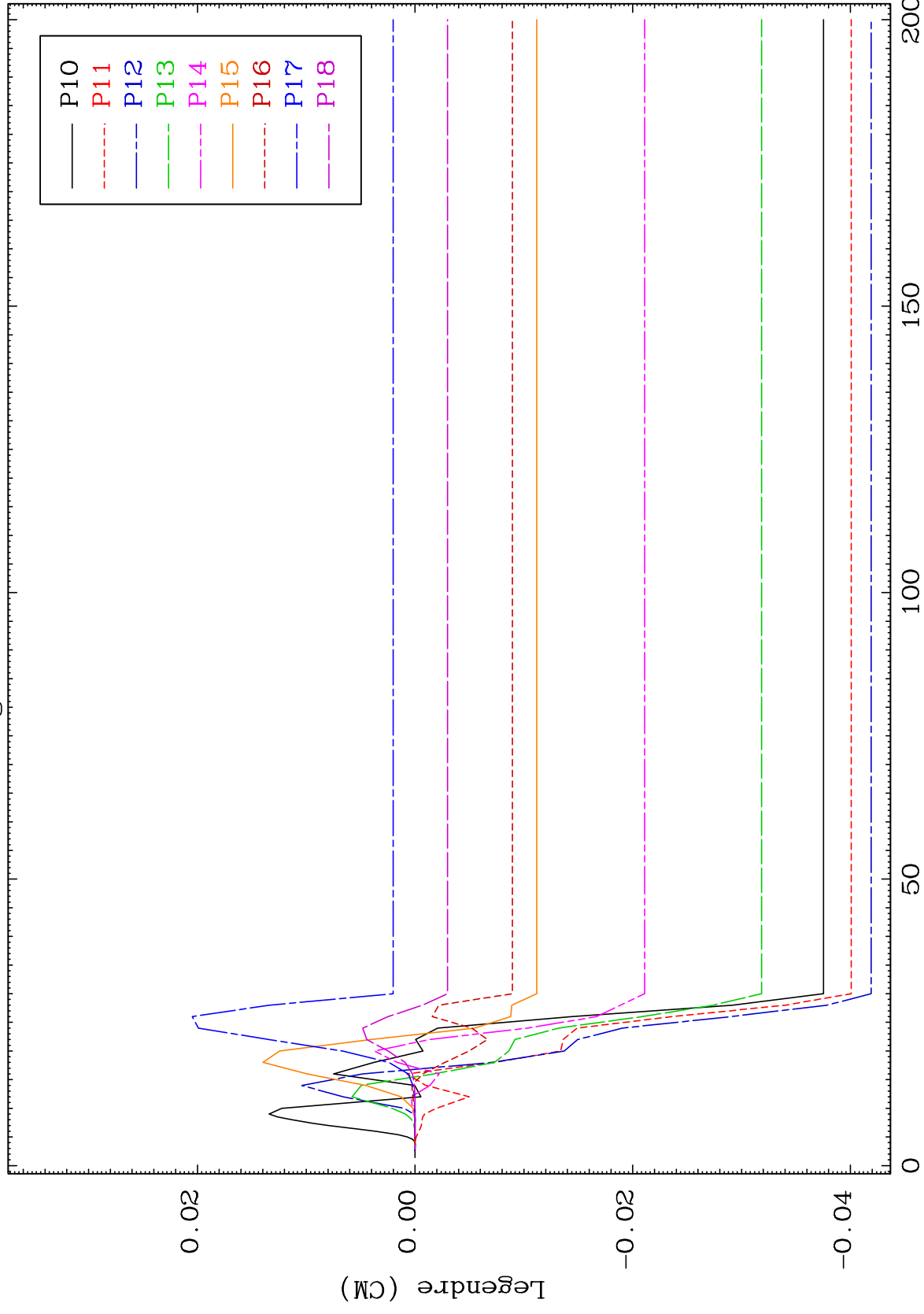
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



47

Incident Energy (MeV)

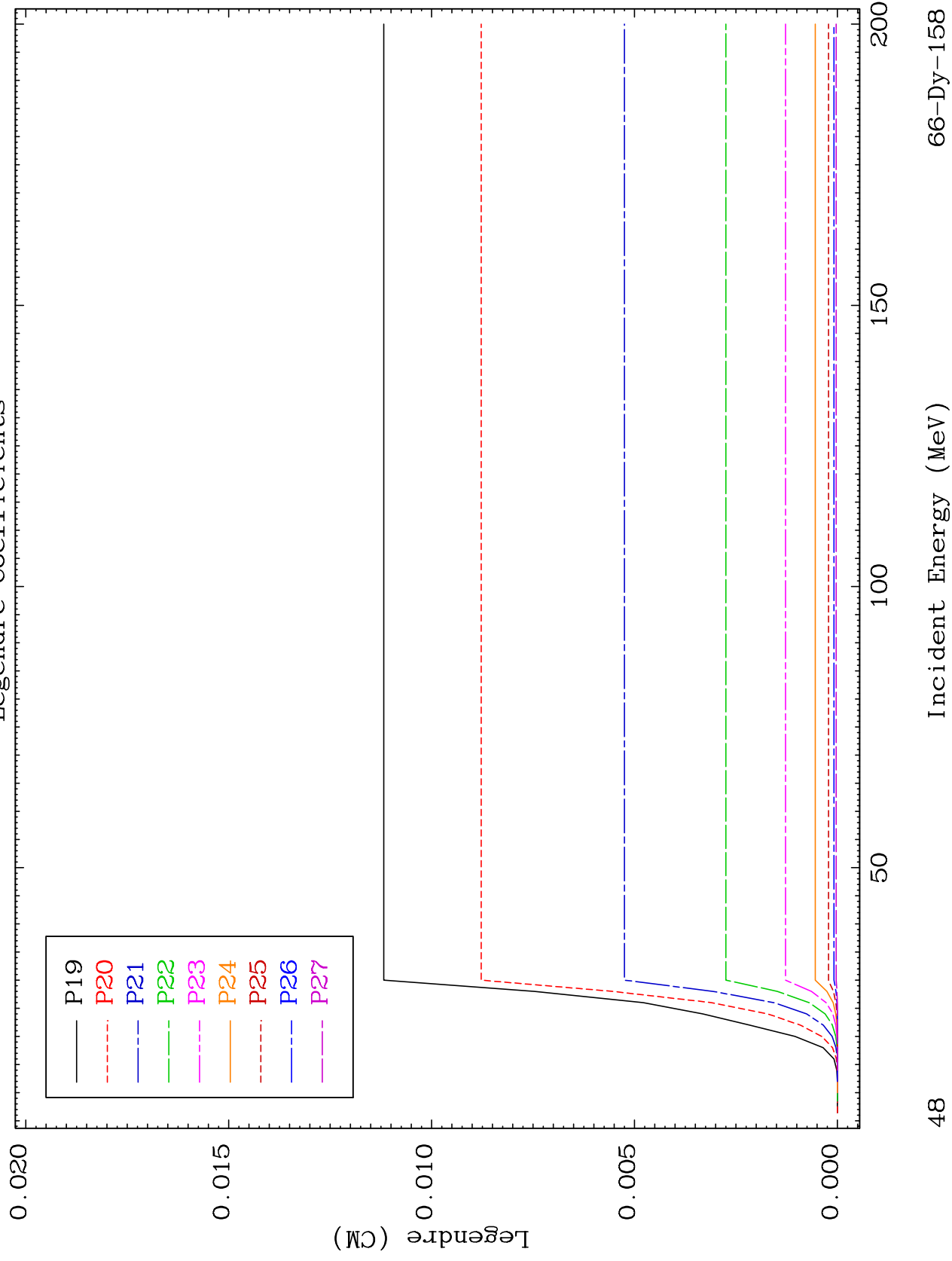
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MAT 6631

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

66-Dy-158



48

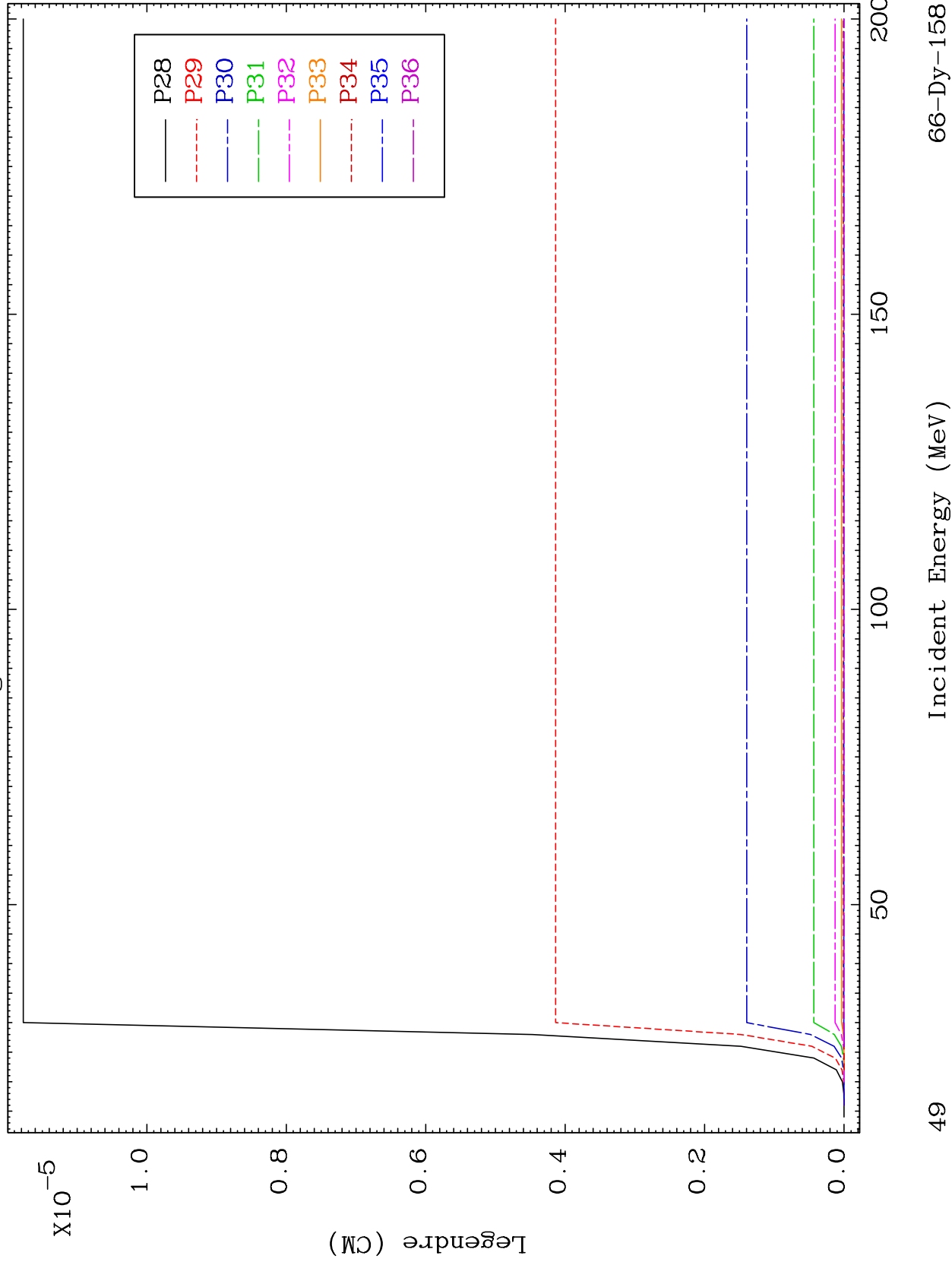
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

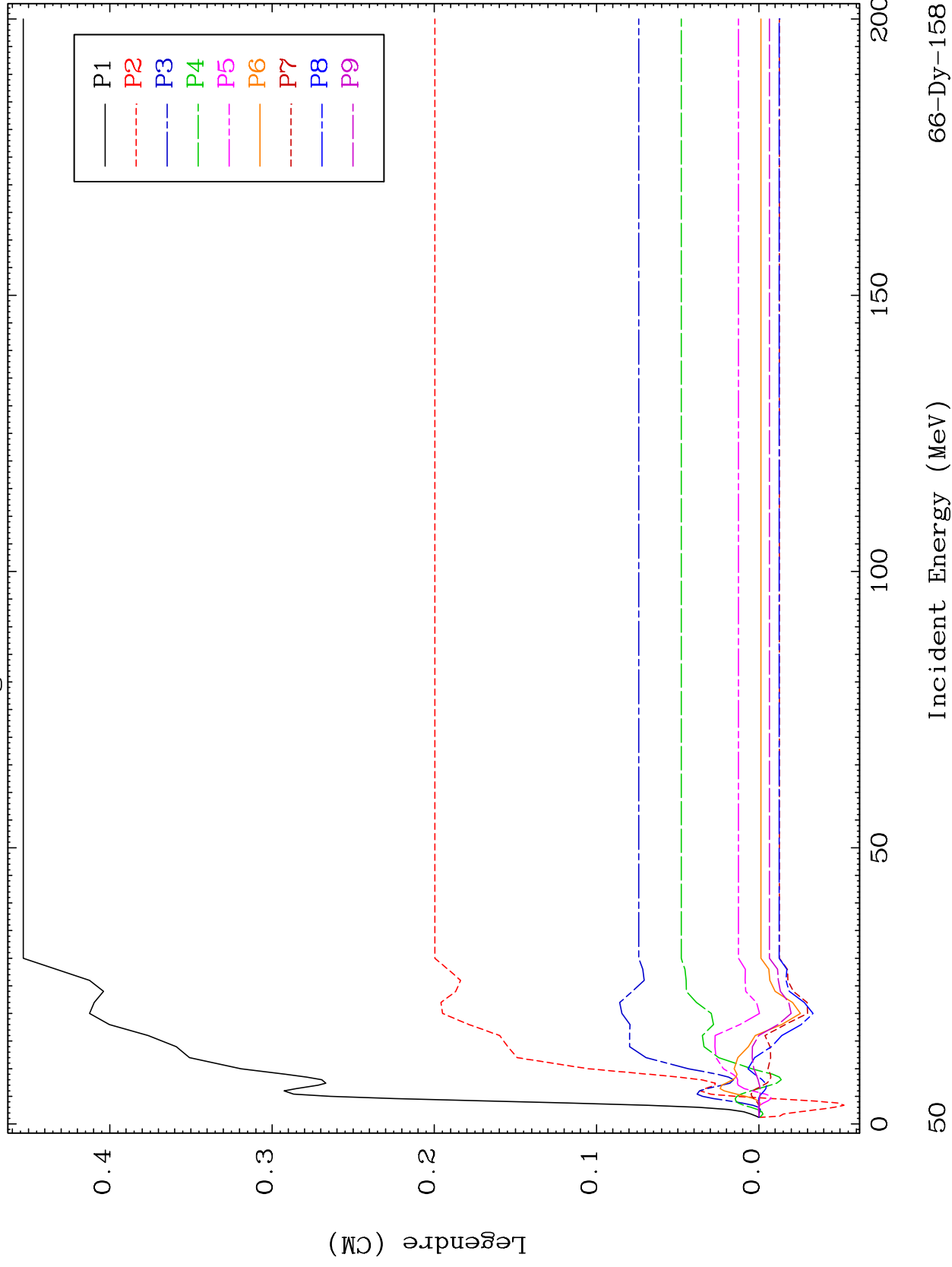
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MAT 6631

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

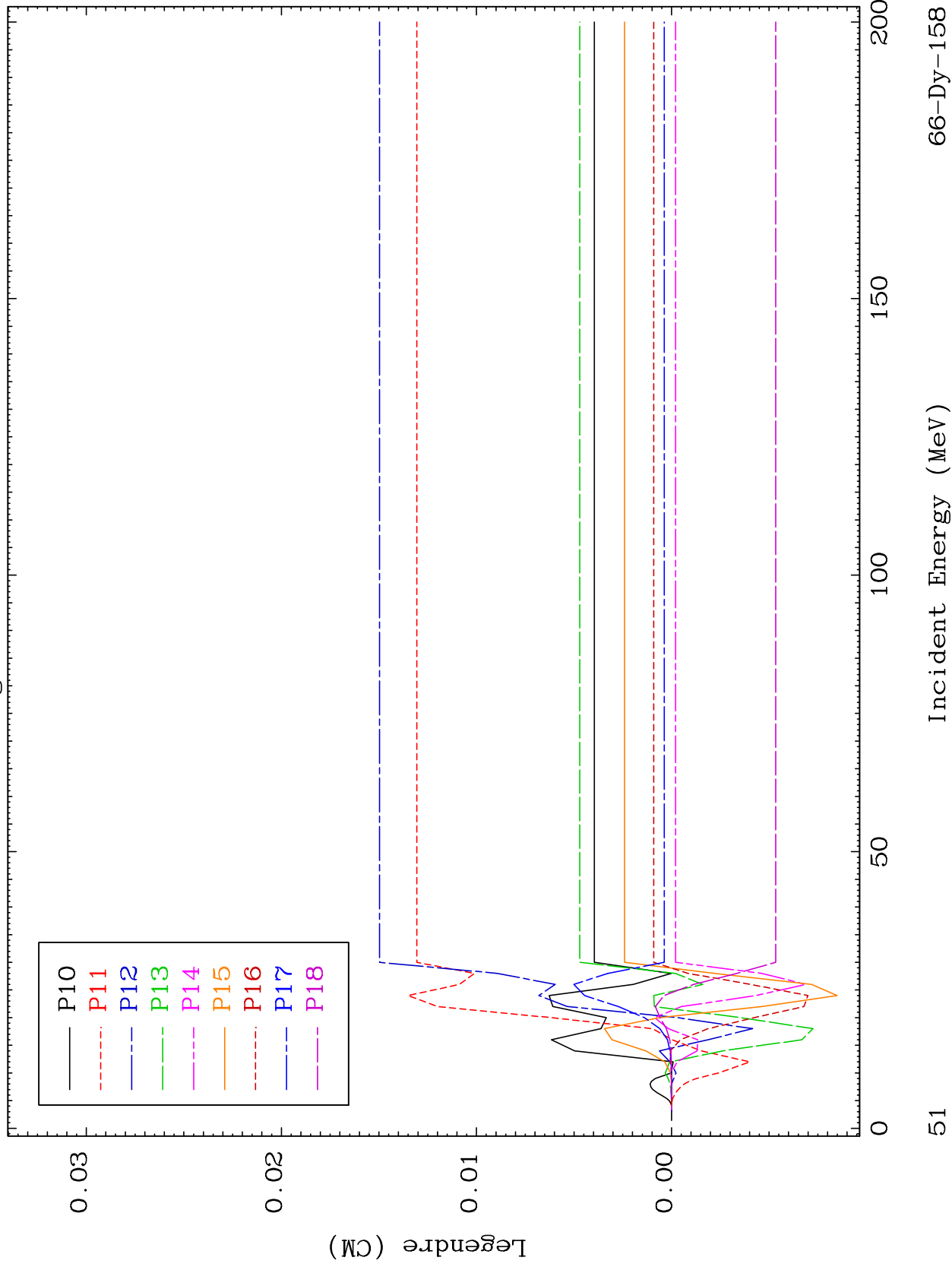
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MAT 6631

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

66-Dy-158



51

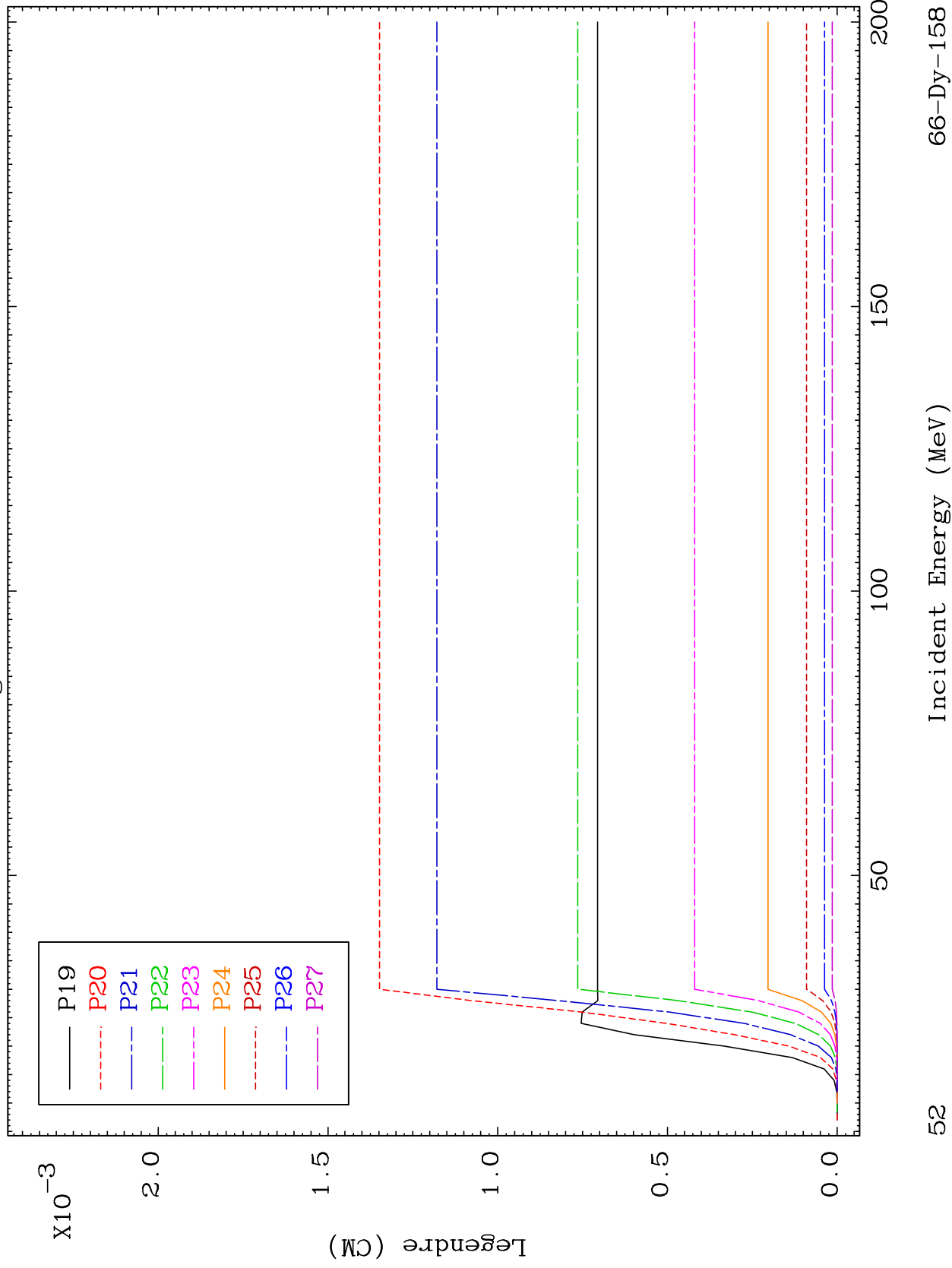
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



52

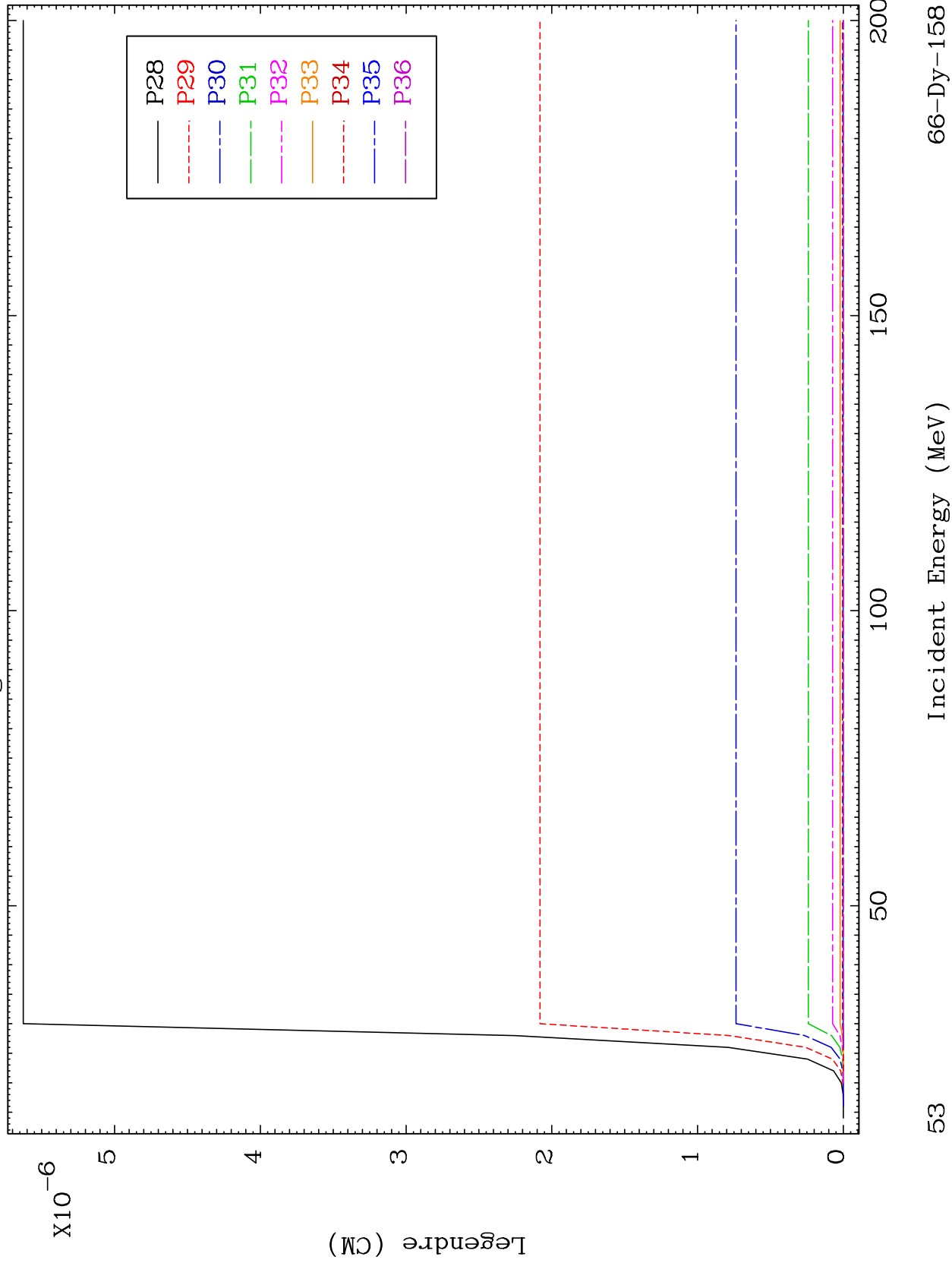
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

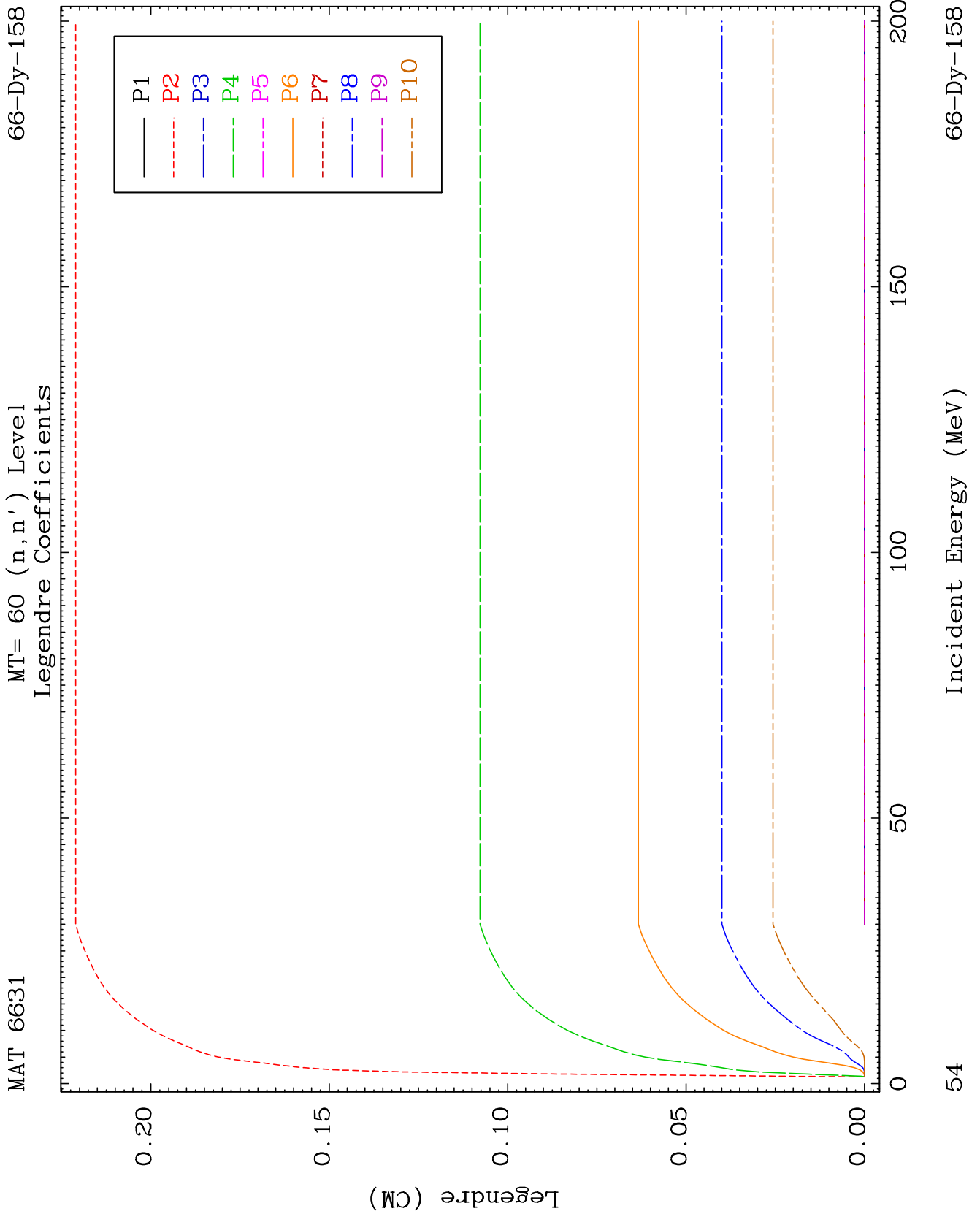
66-Dy-158



53

Incident Energy (MeV)

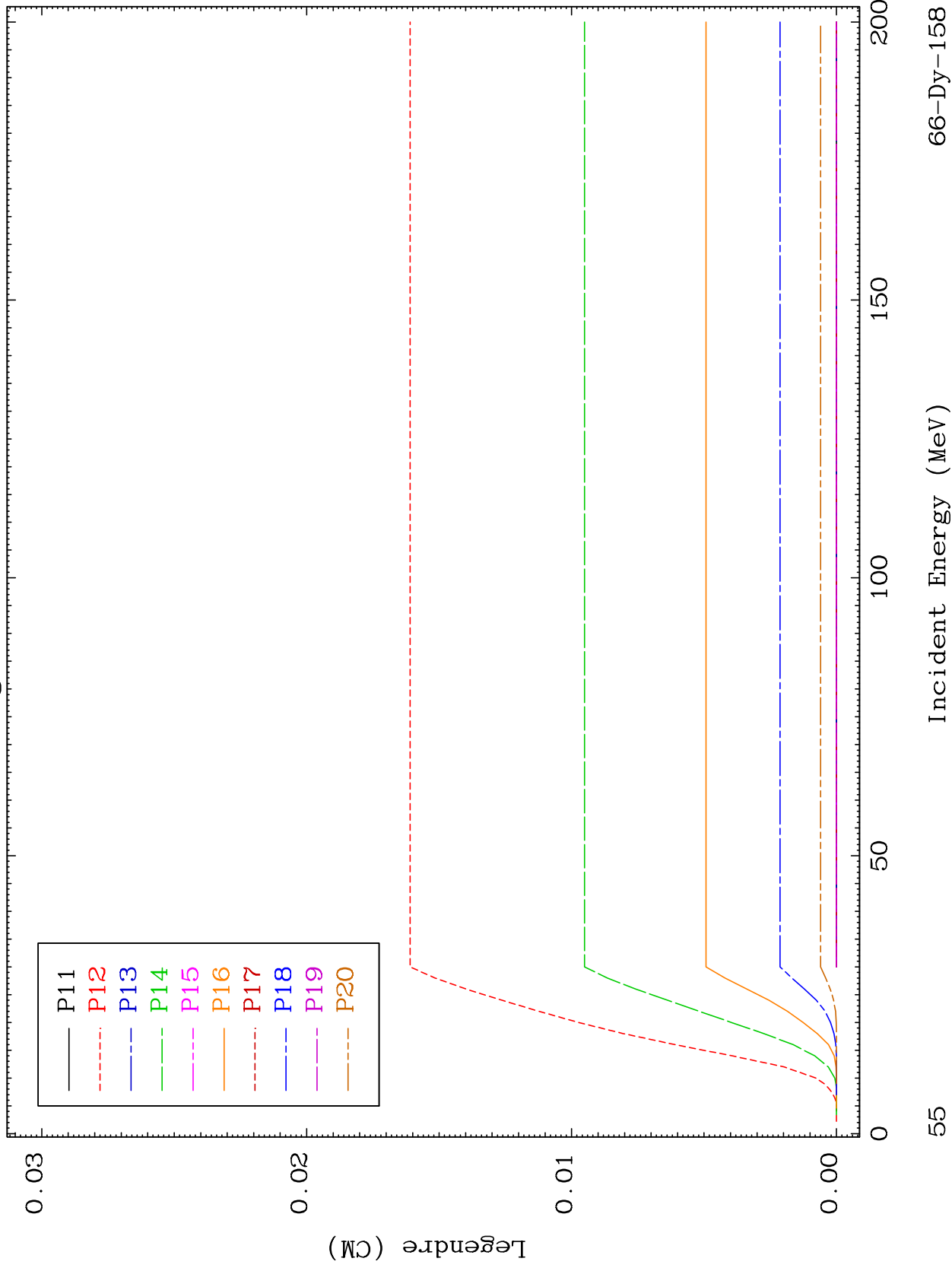
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MAT 6631

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

66-Dy-158

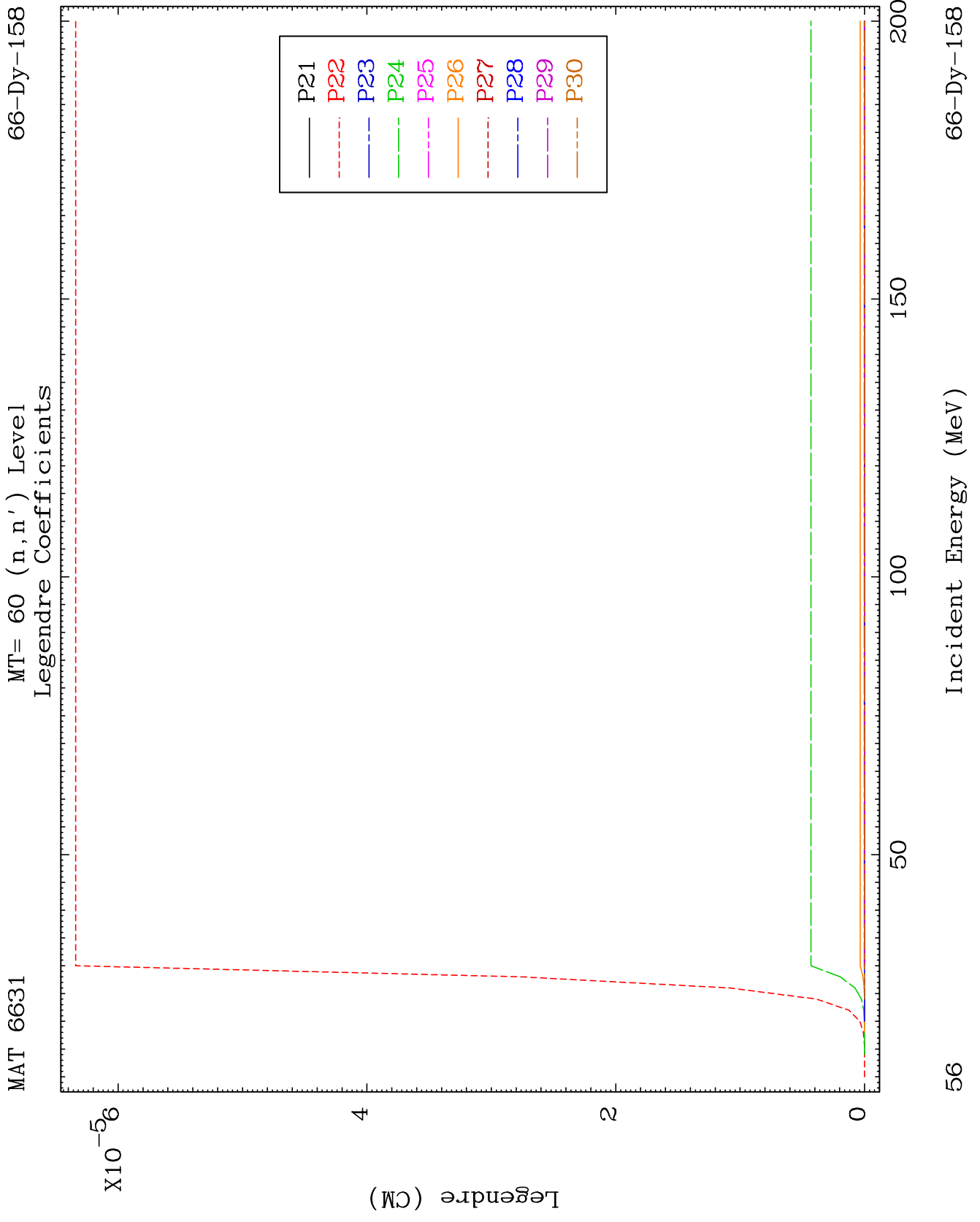


66-Dy-158

Incident Energy (MeV)

55

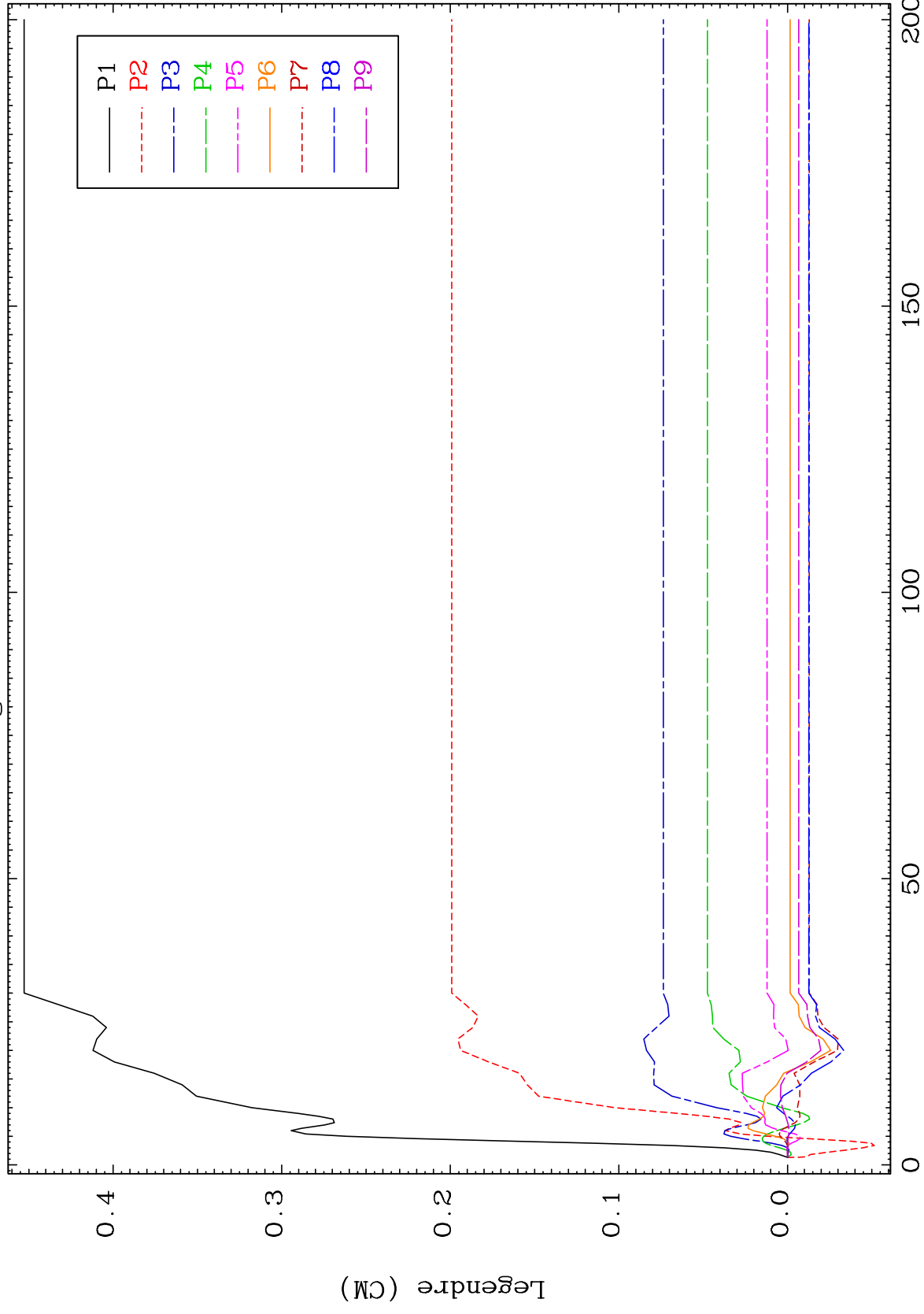




MAT 6631

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

66-Dy-158



57

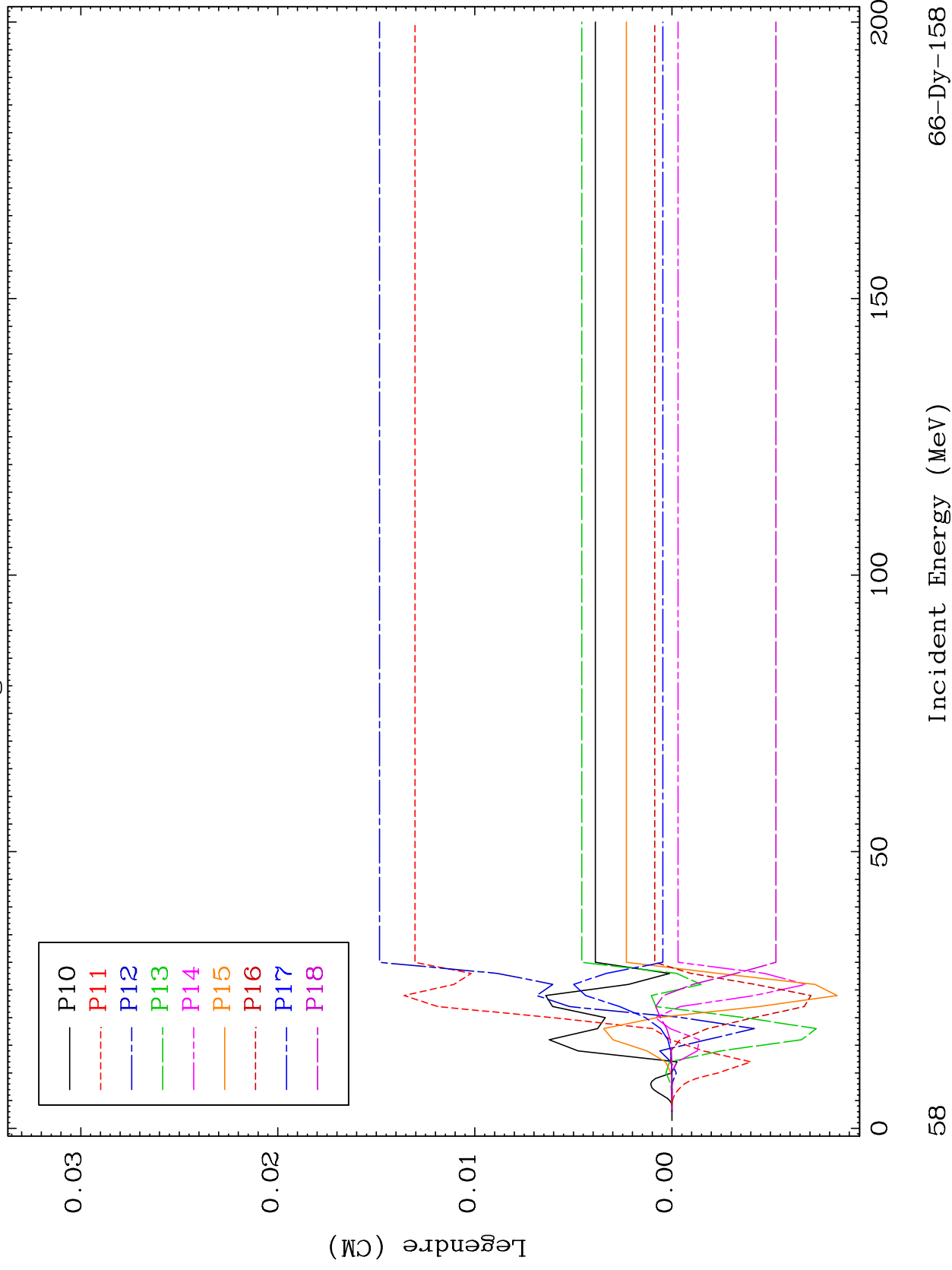
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



66-Dy-158

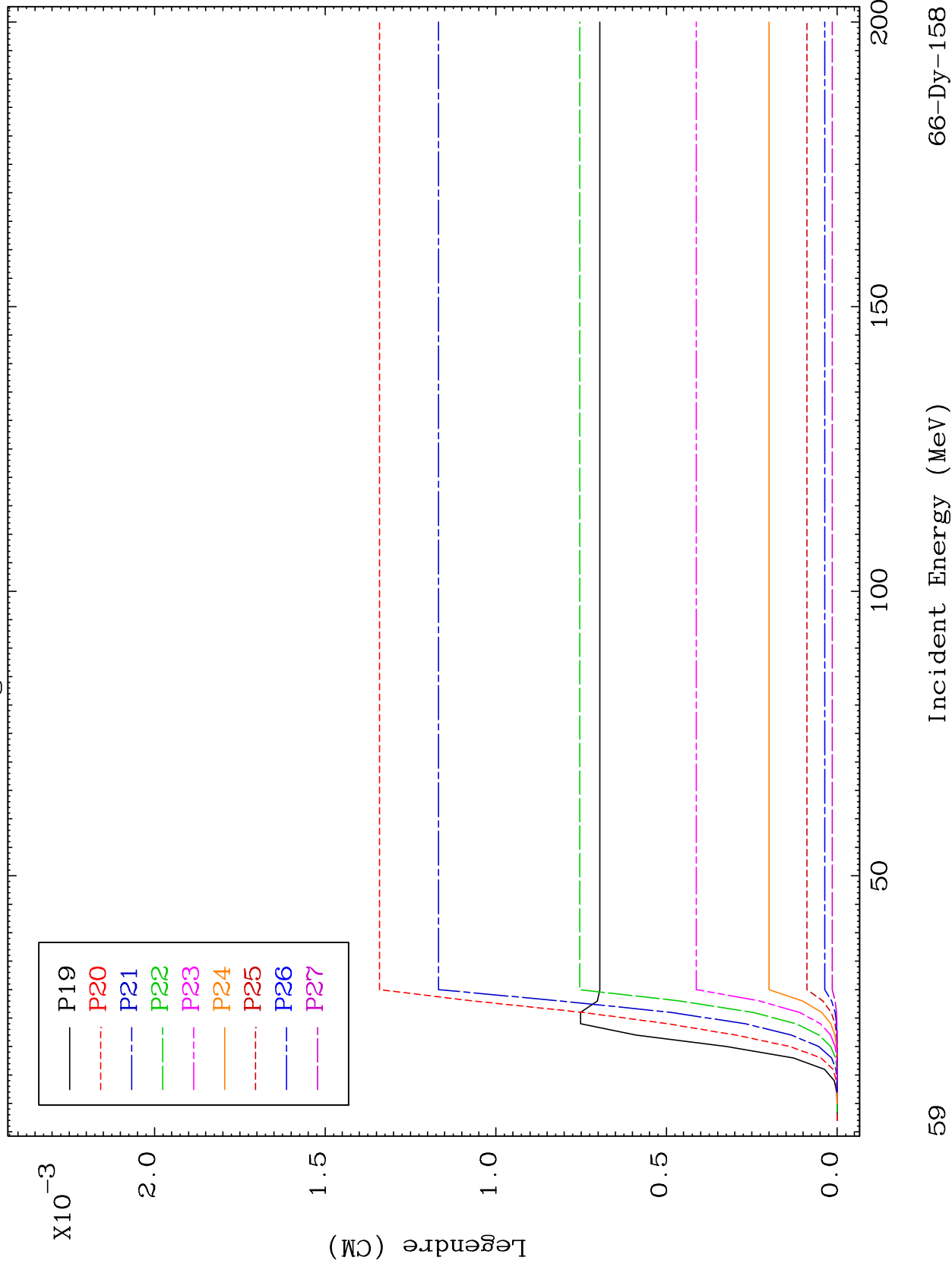
Incident Energy (MeV)

58

MAT 6631

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

66-Dy-158



59

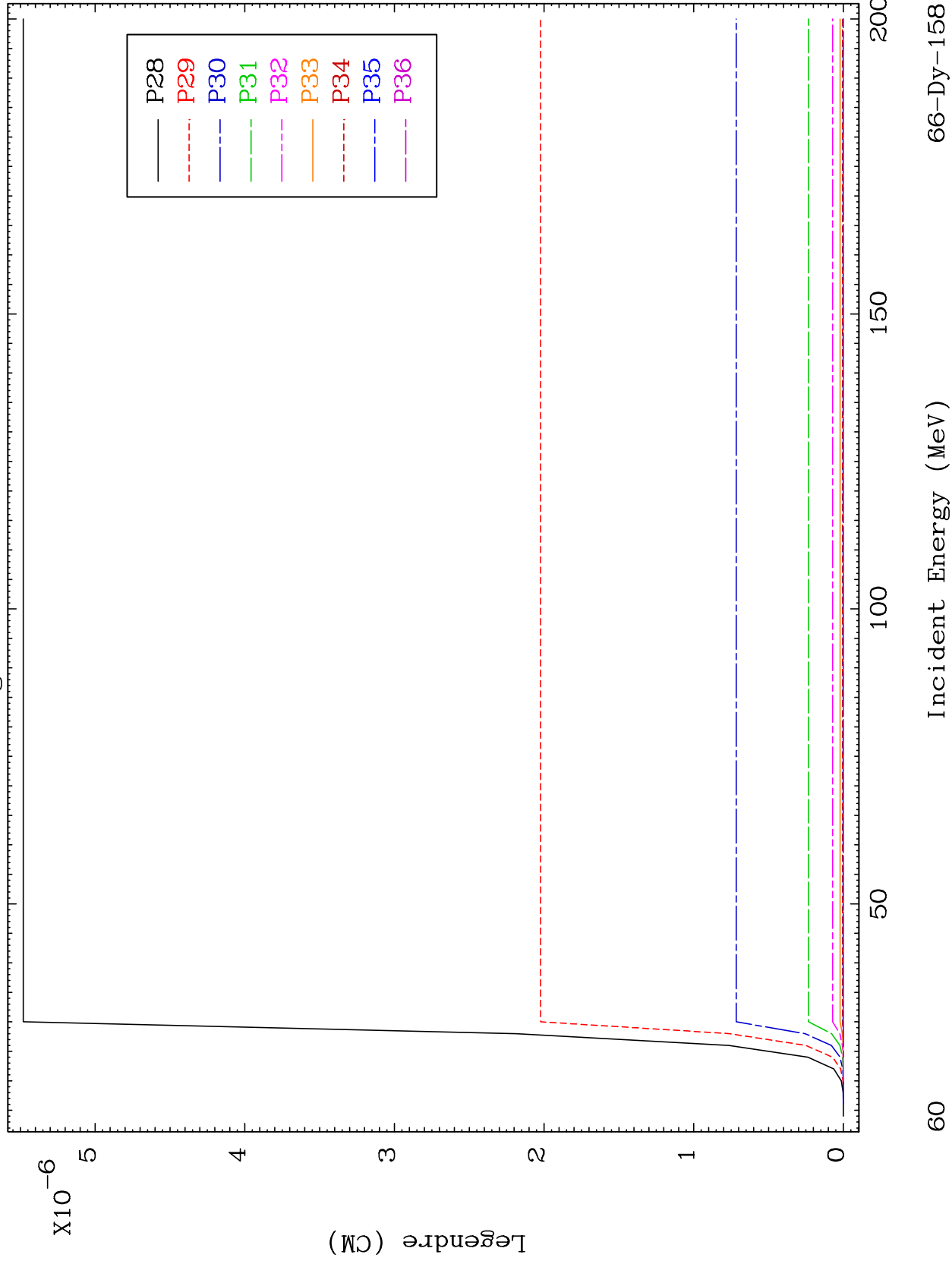
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

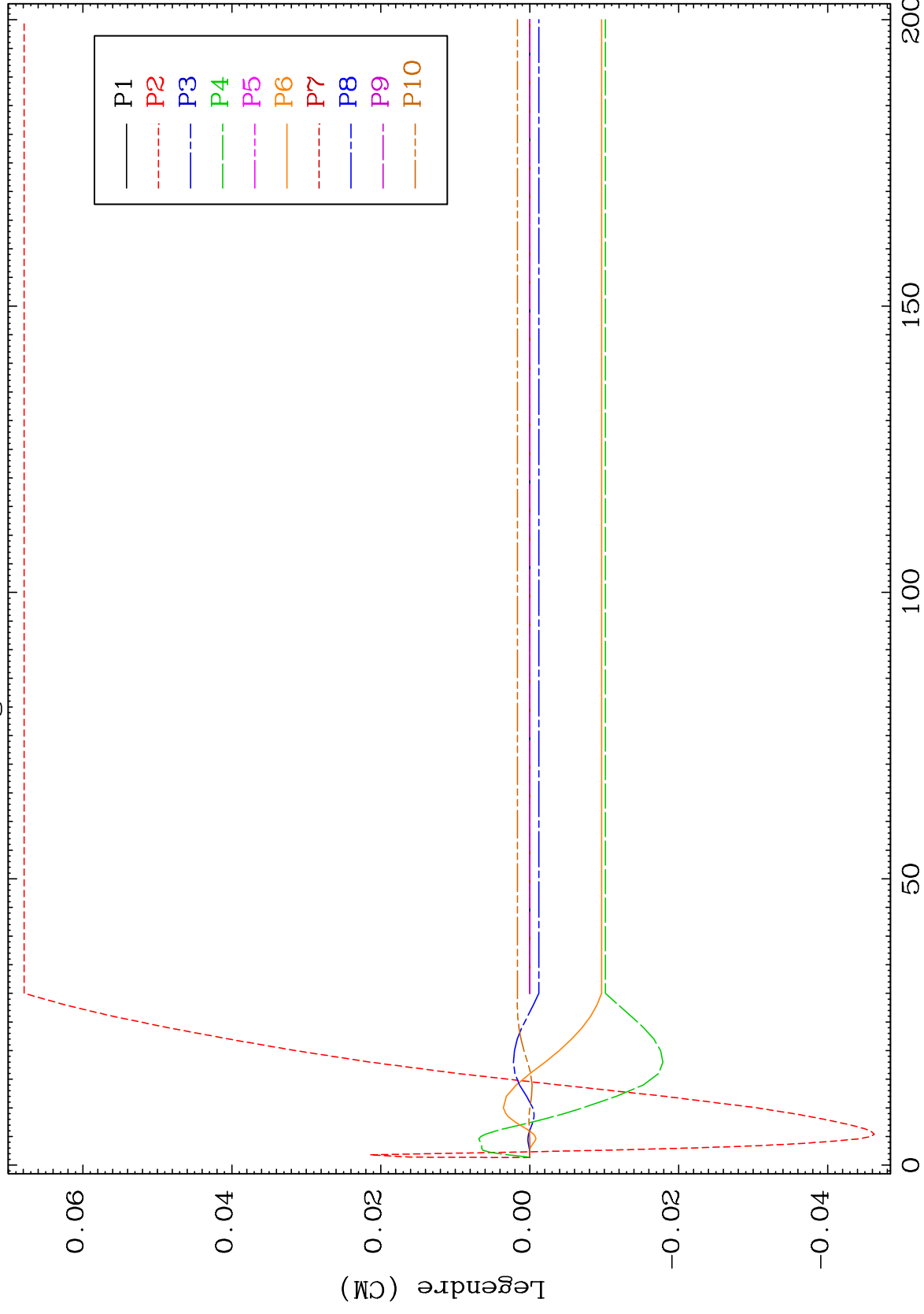
66-Dy-158



MAT 6631

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

66-Dy-158



61

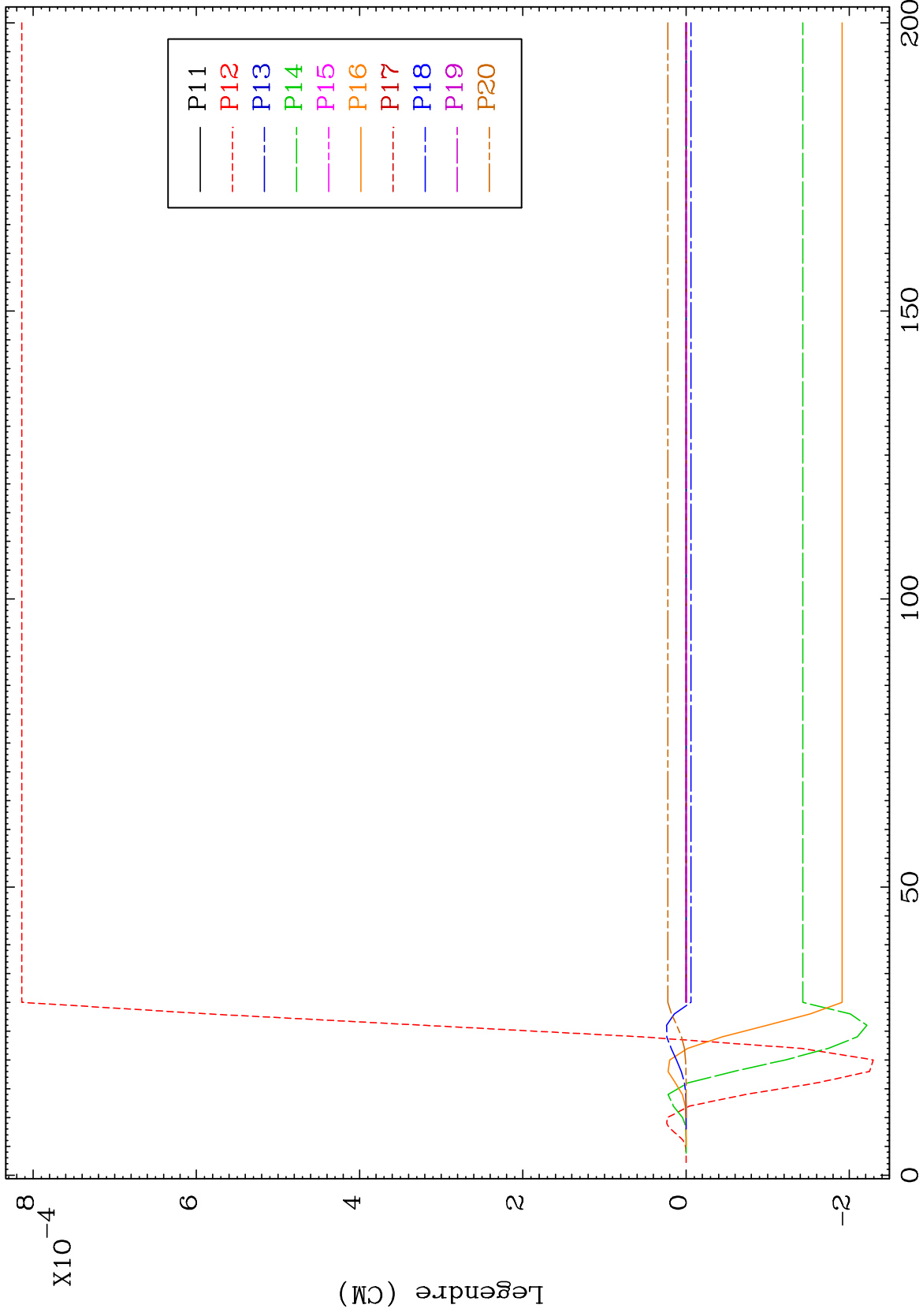
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



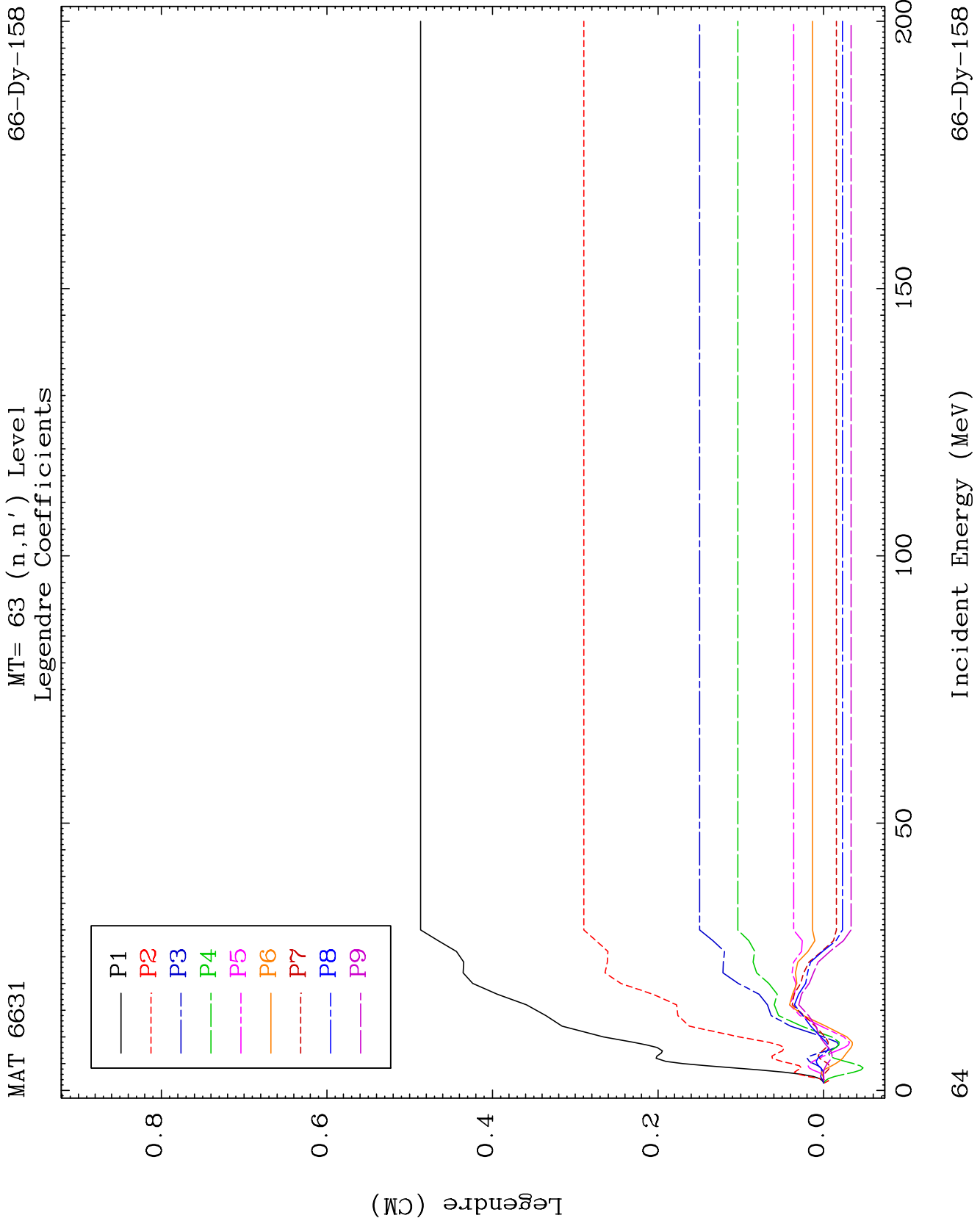
62

Incident Energy (MeV)

66-Dy-158



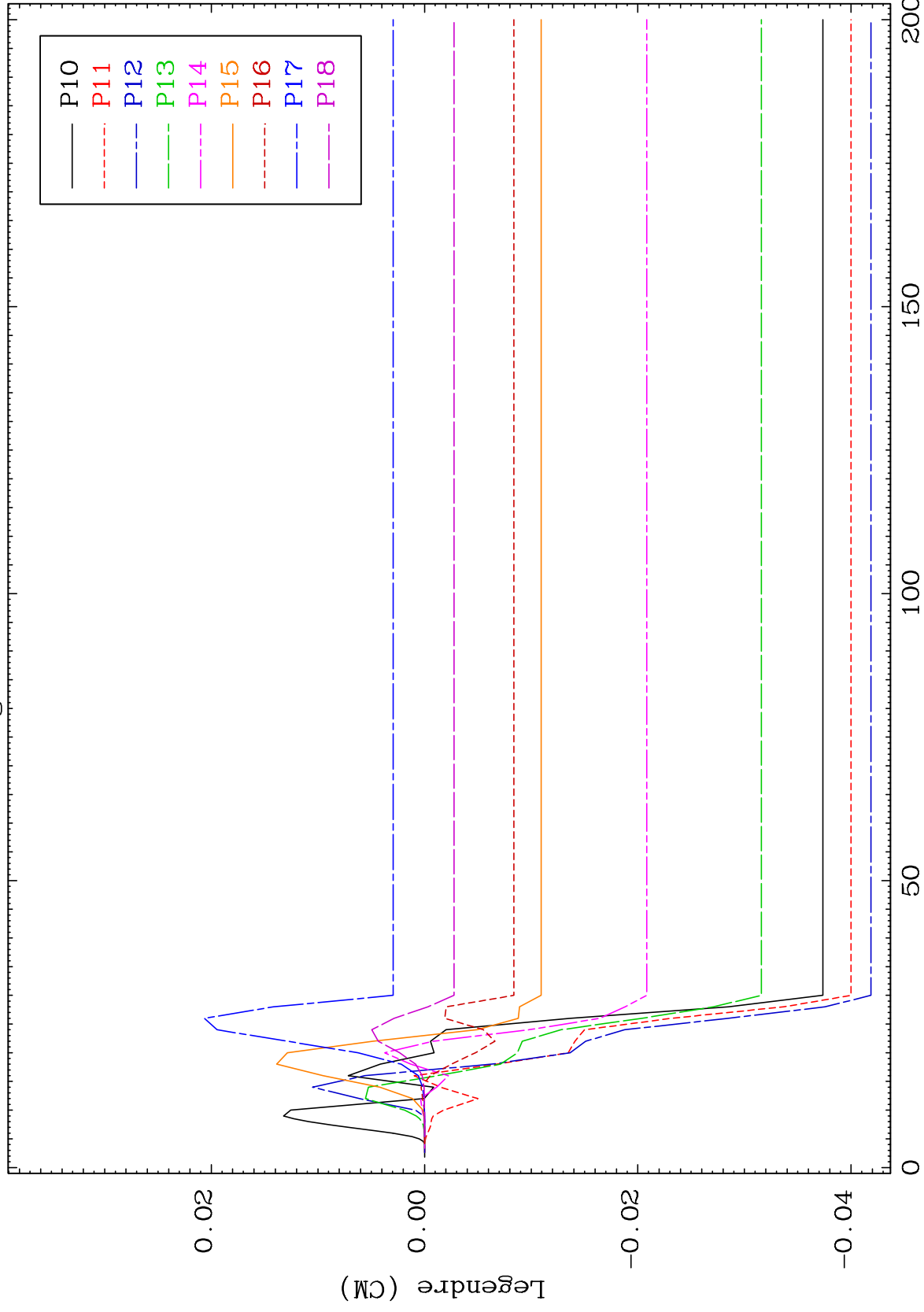




MAT 6631

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

66-Dy-158



65

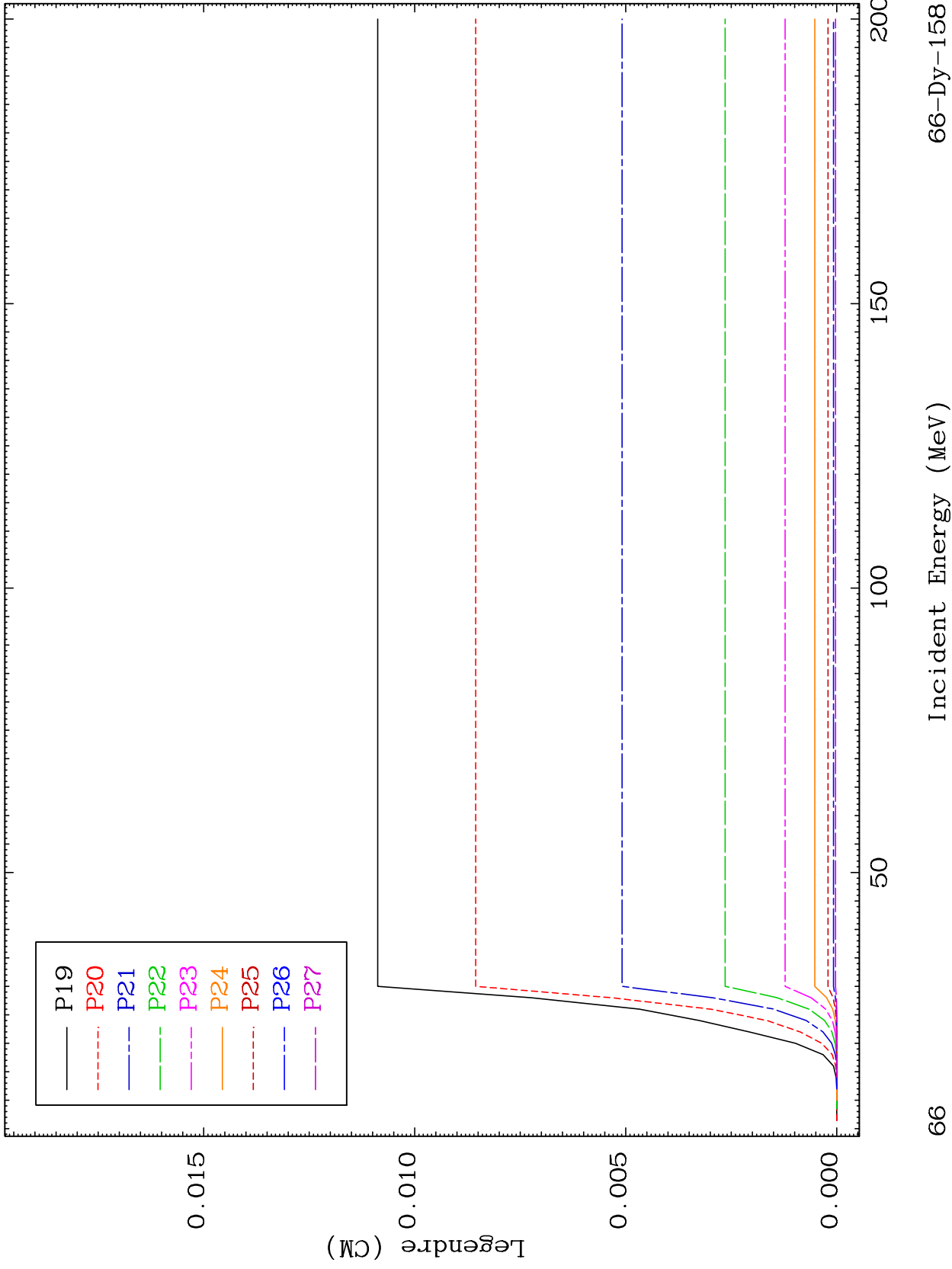
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158

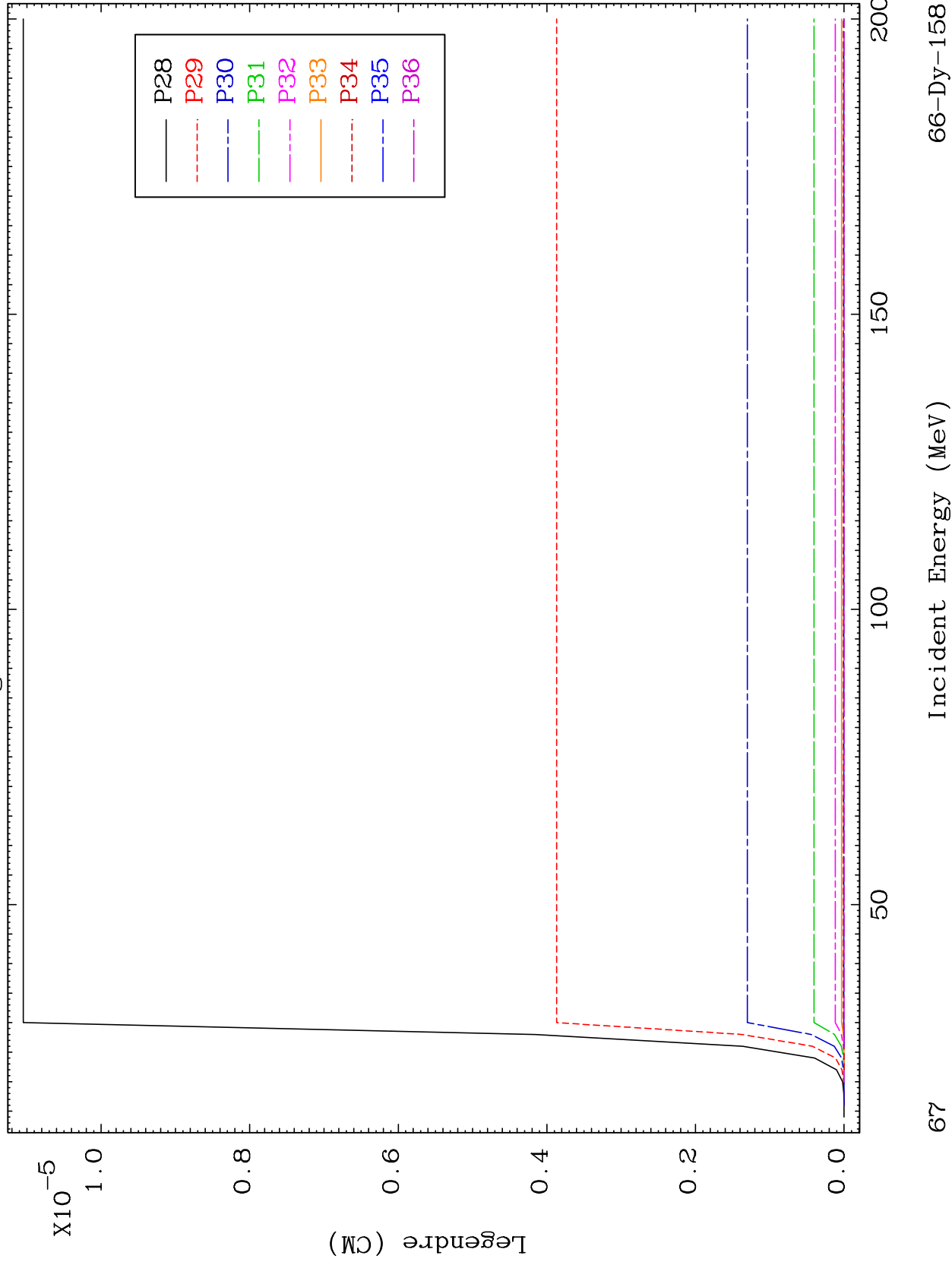


66

MAT 6631

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

66-Dy-158



67

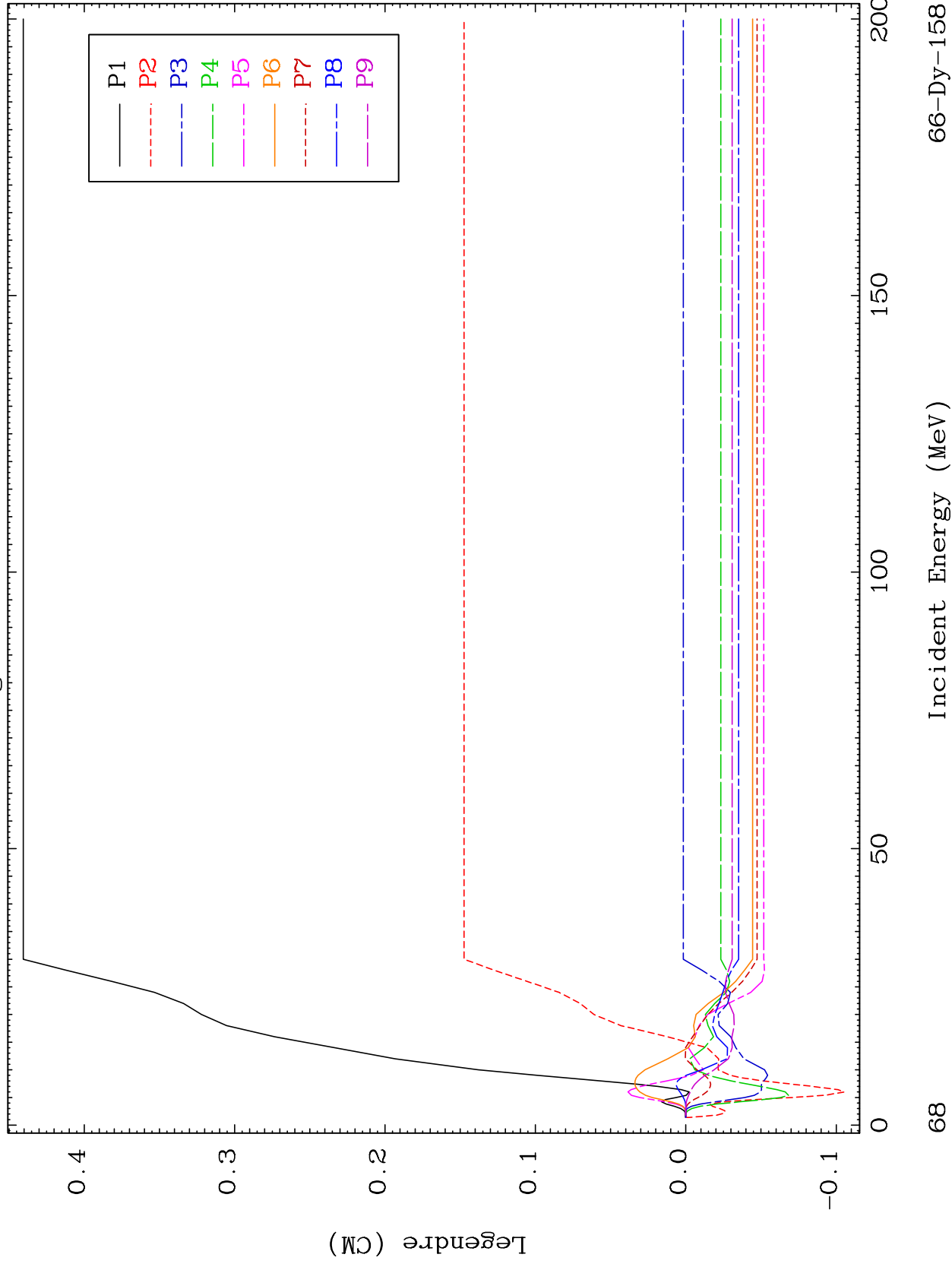
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



66-Dy-158

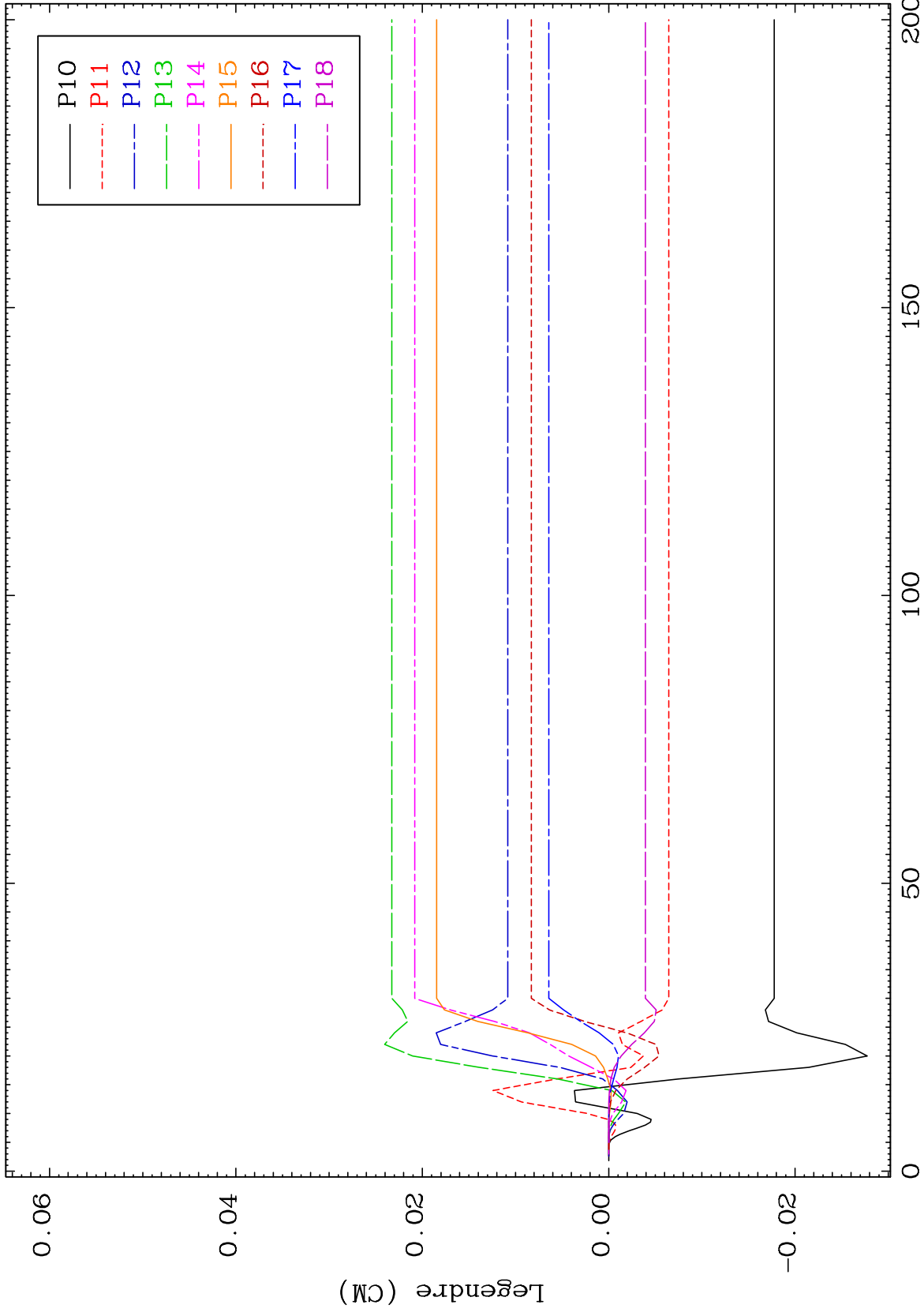
Incident Energy (MeV)

68

MAT 6631

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

66-Dy-158



69

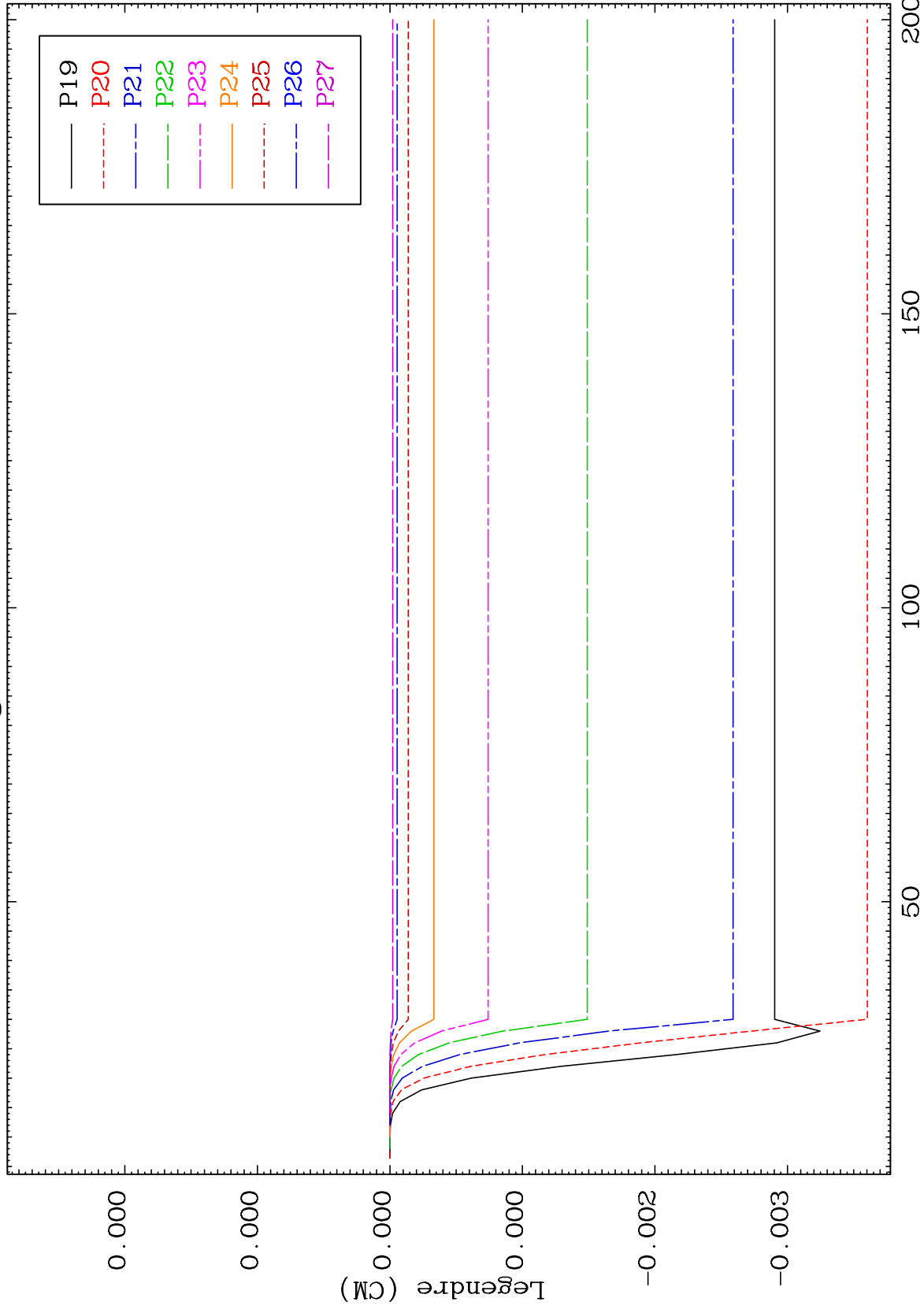
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



70

Incident Energy (MeV)

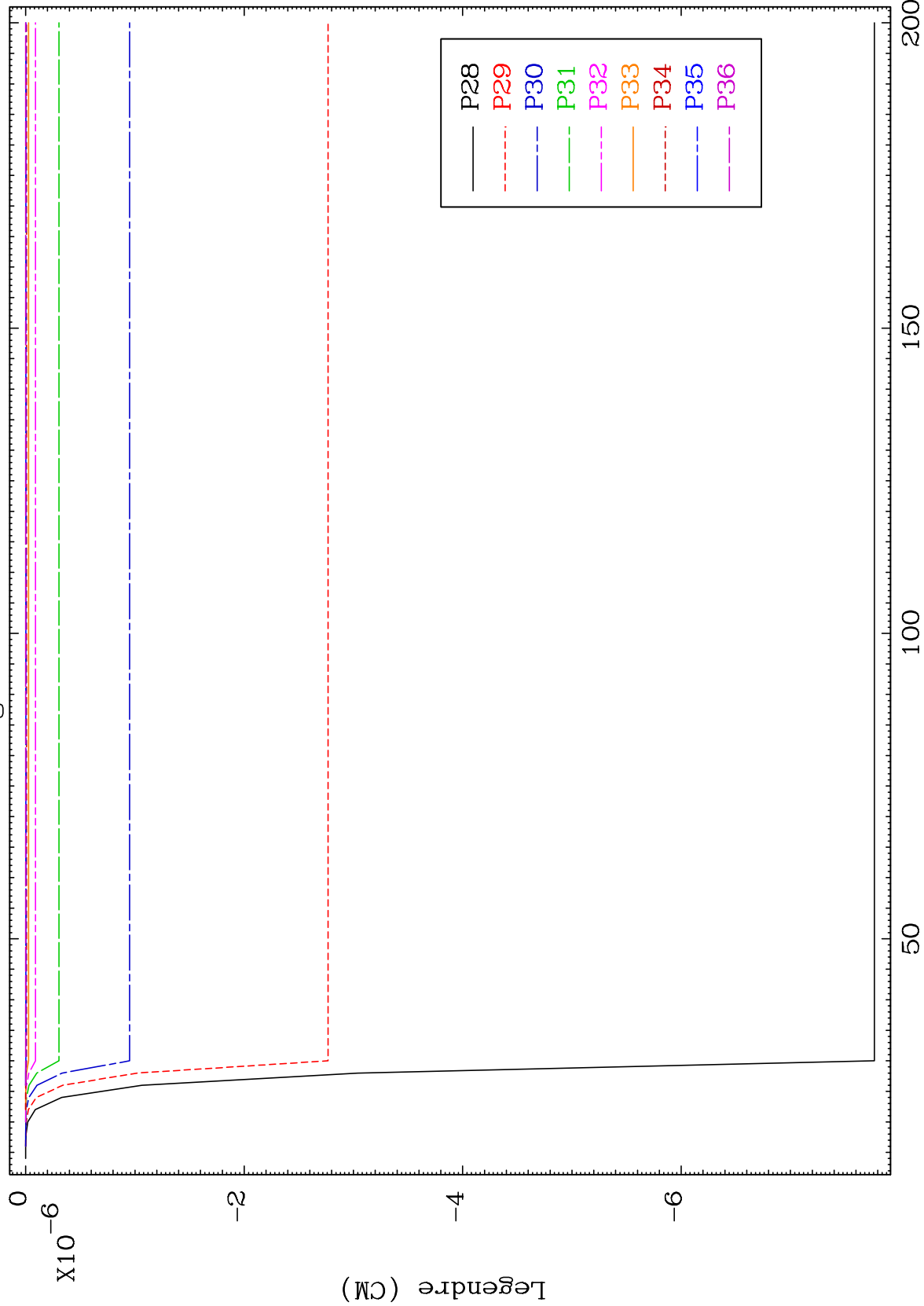
66-Dy-158

MAT 6631

MT= 64 (n,n') Level

66-Dy-158

Legendre Coefficients



66-Dy-158

Incident Energy (MeV)

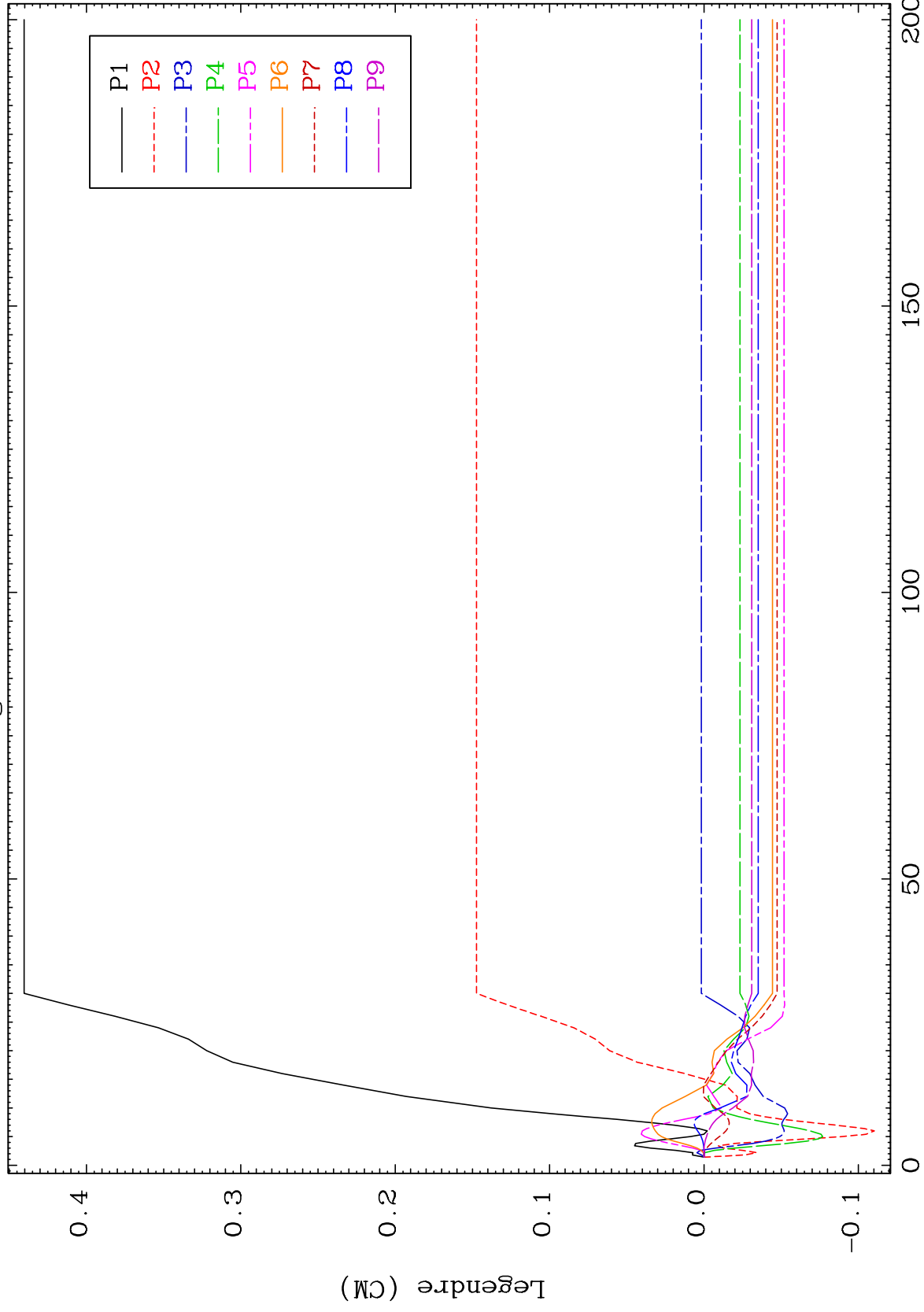
71



MAT 6631

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

66-Dy-158



72

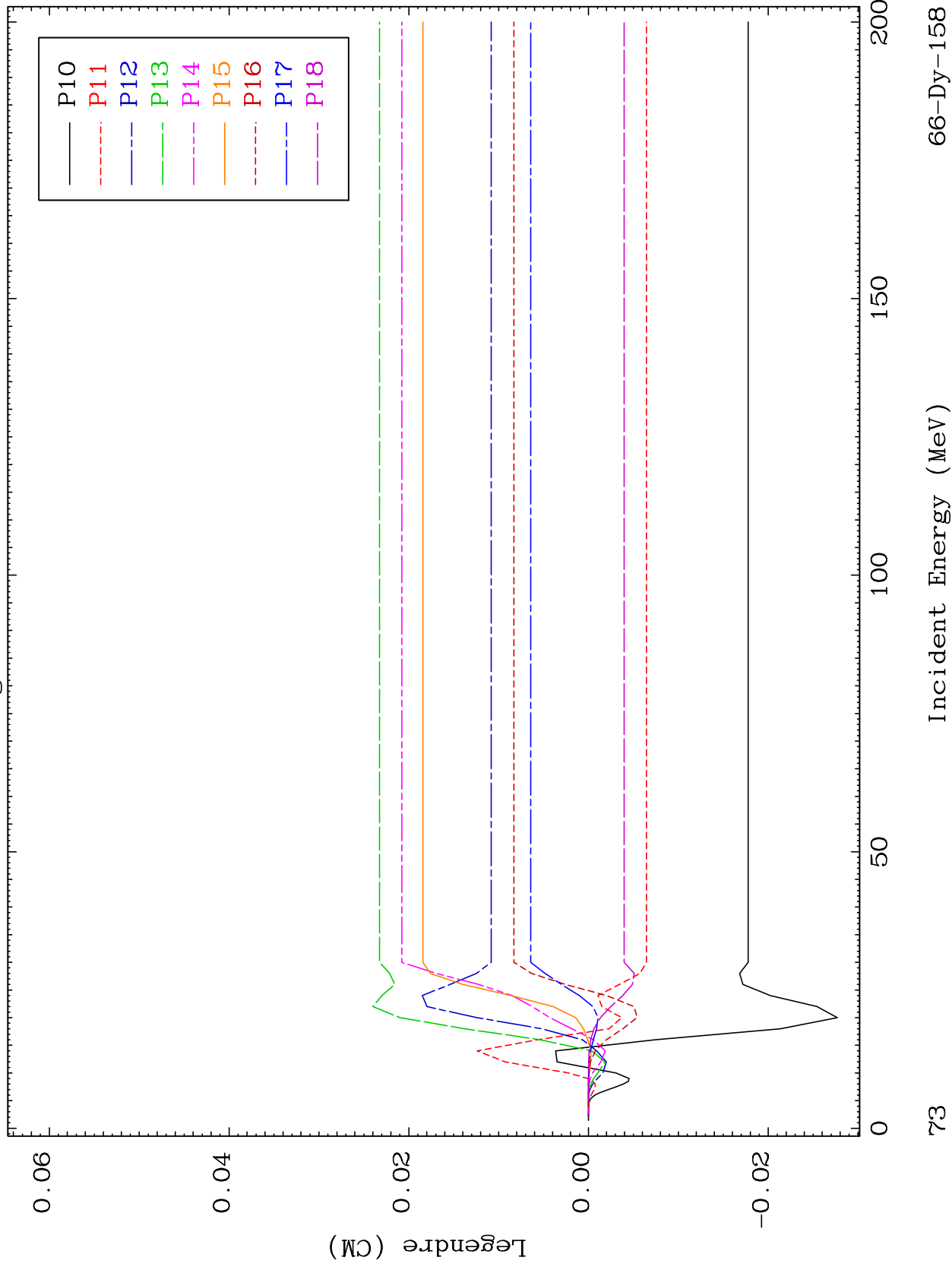
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



66-Dy-158

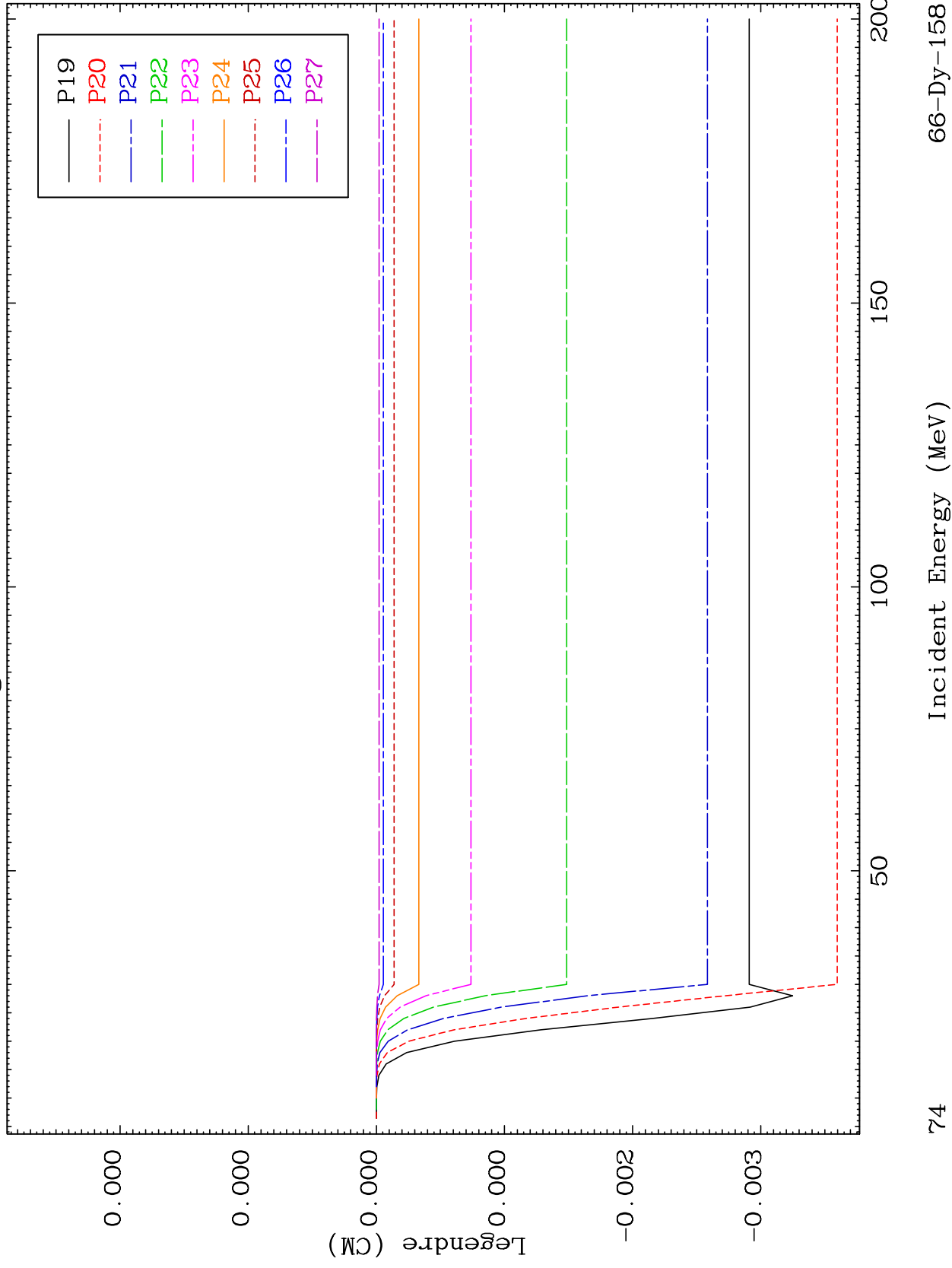
Incident Energy (MeV)

73

MAT 6631

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

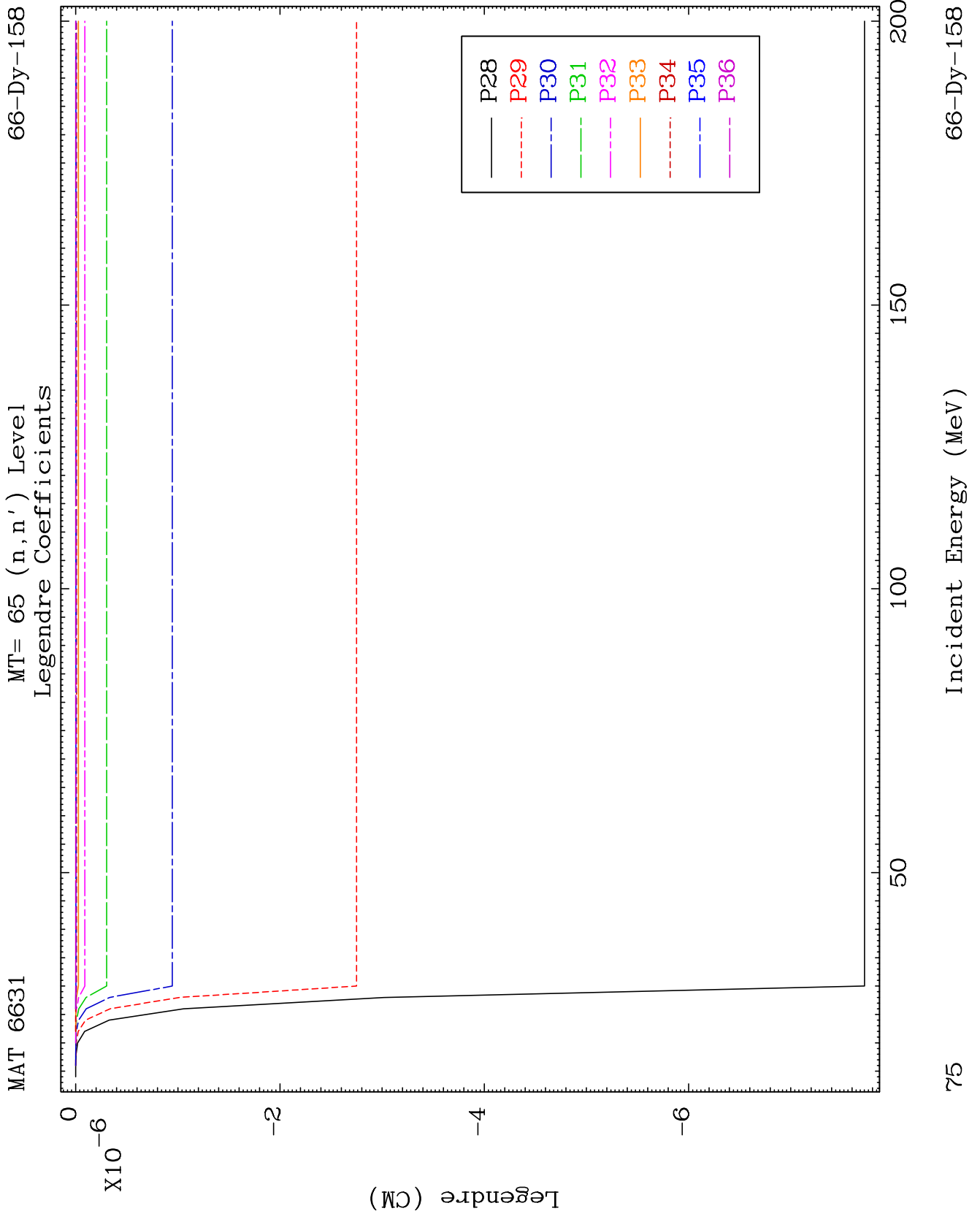
66-Dy-158



74

Incident Energy (MeV)

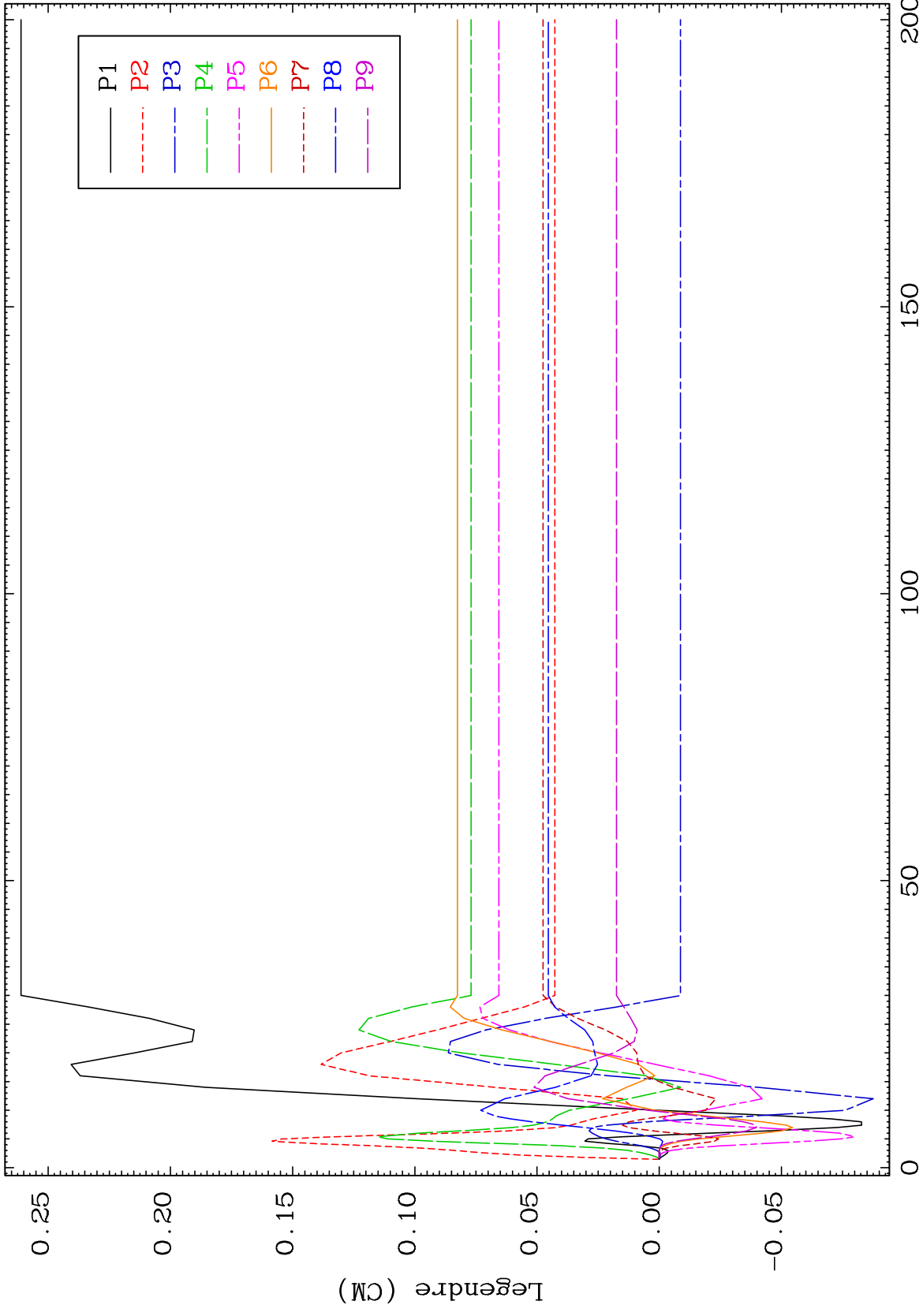
66-Dy-158



MAT 6631

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

66-Dy-158



76

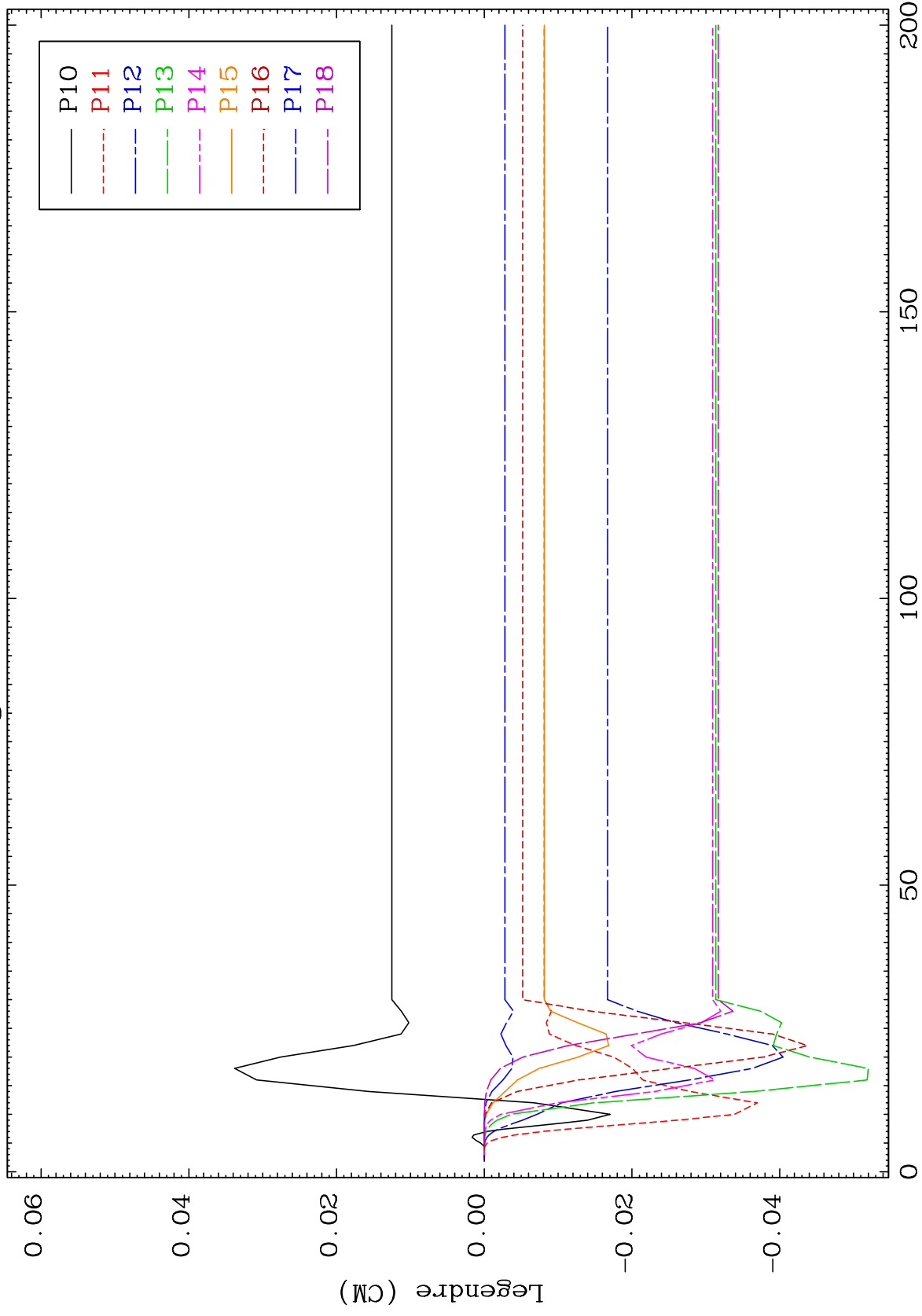
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



77

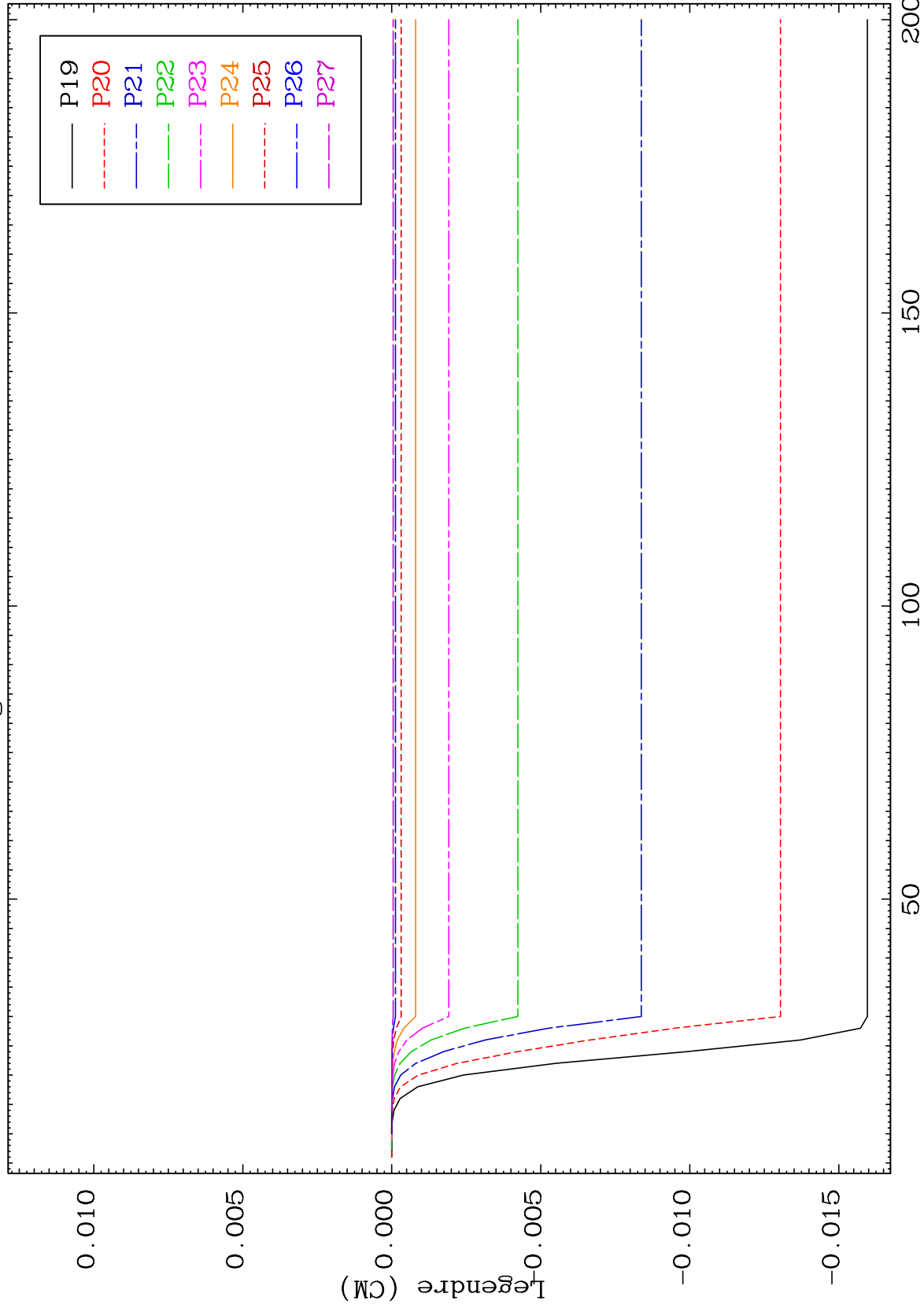
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



78

Incident Energy (MeV)

66-Dy-158

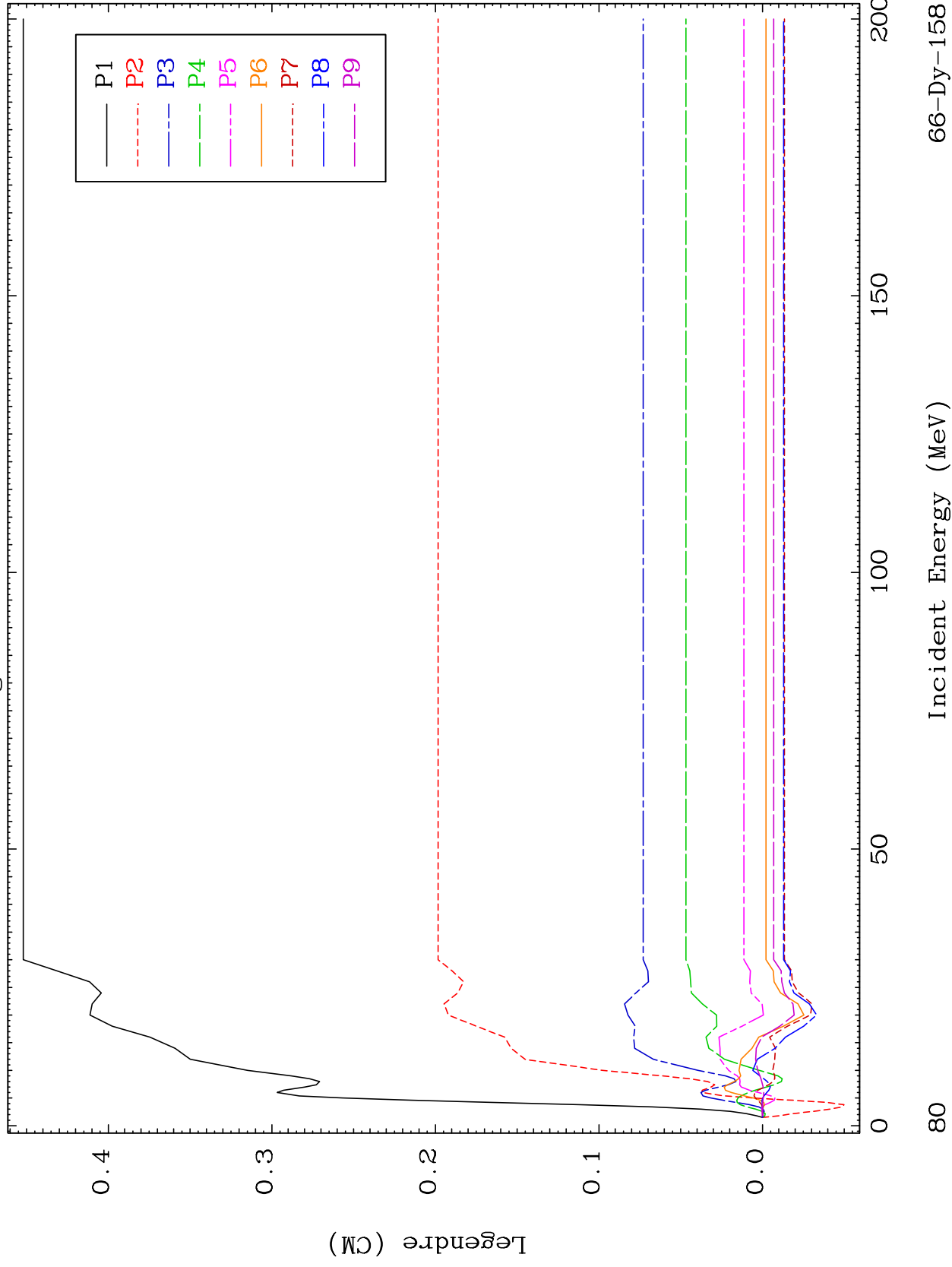




MAT 6631

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

66-Dy-158



66-Dy-158

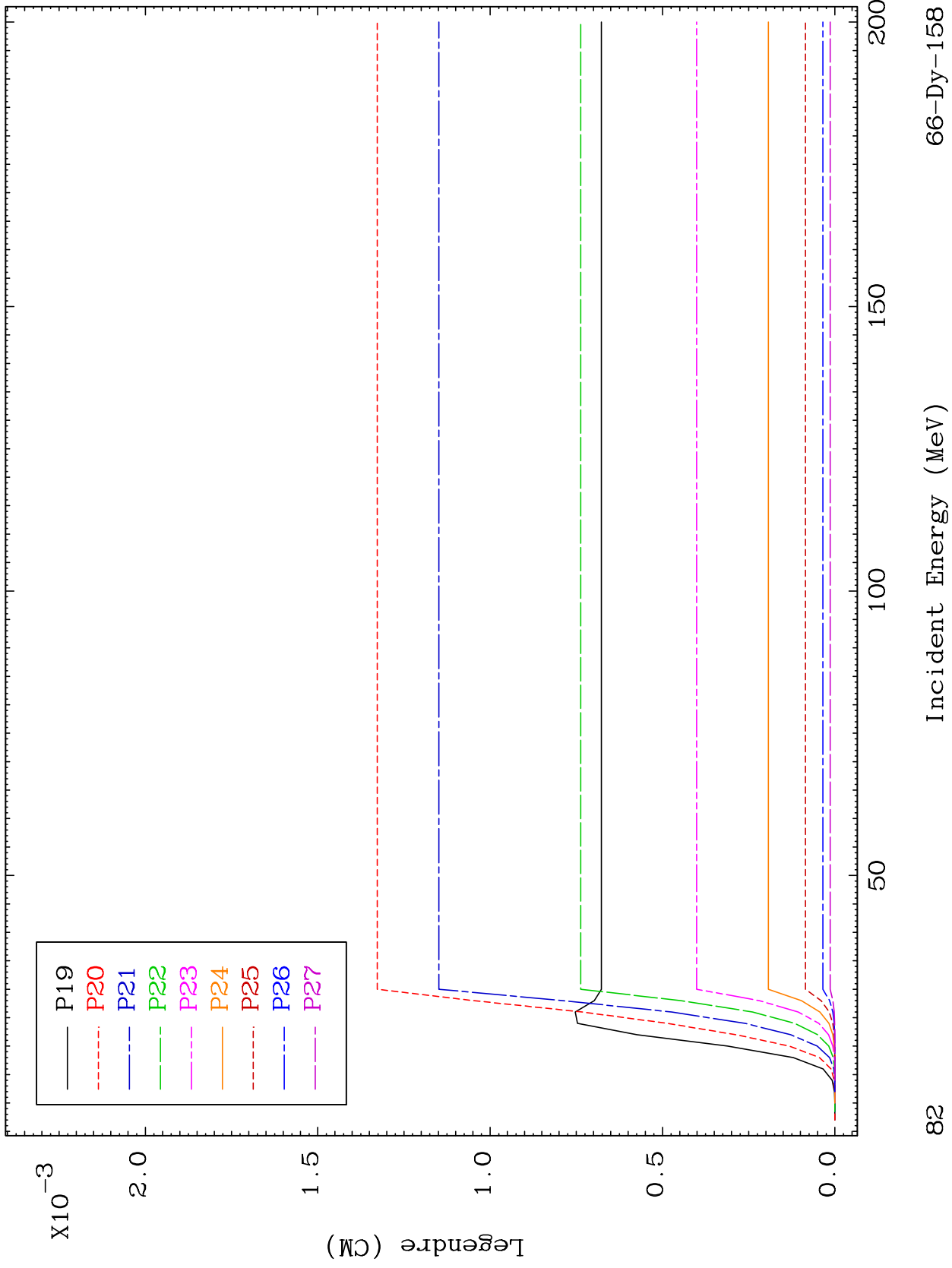
Incident Energy (MeV)



MAT 6631

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

66-Dy-158

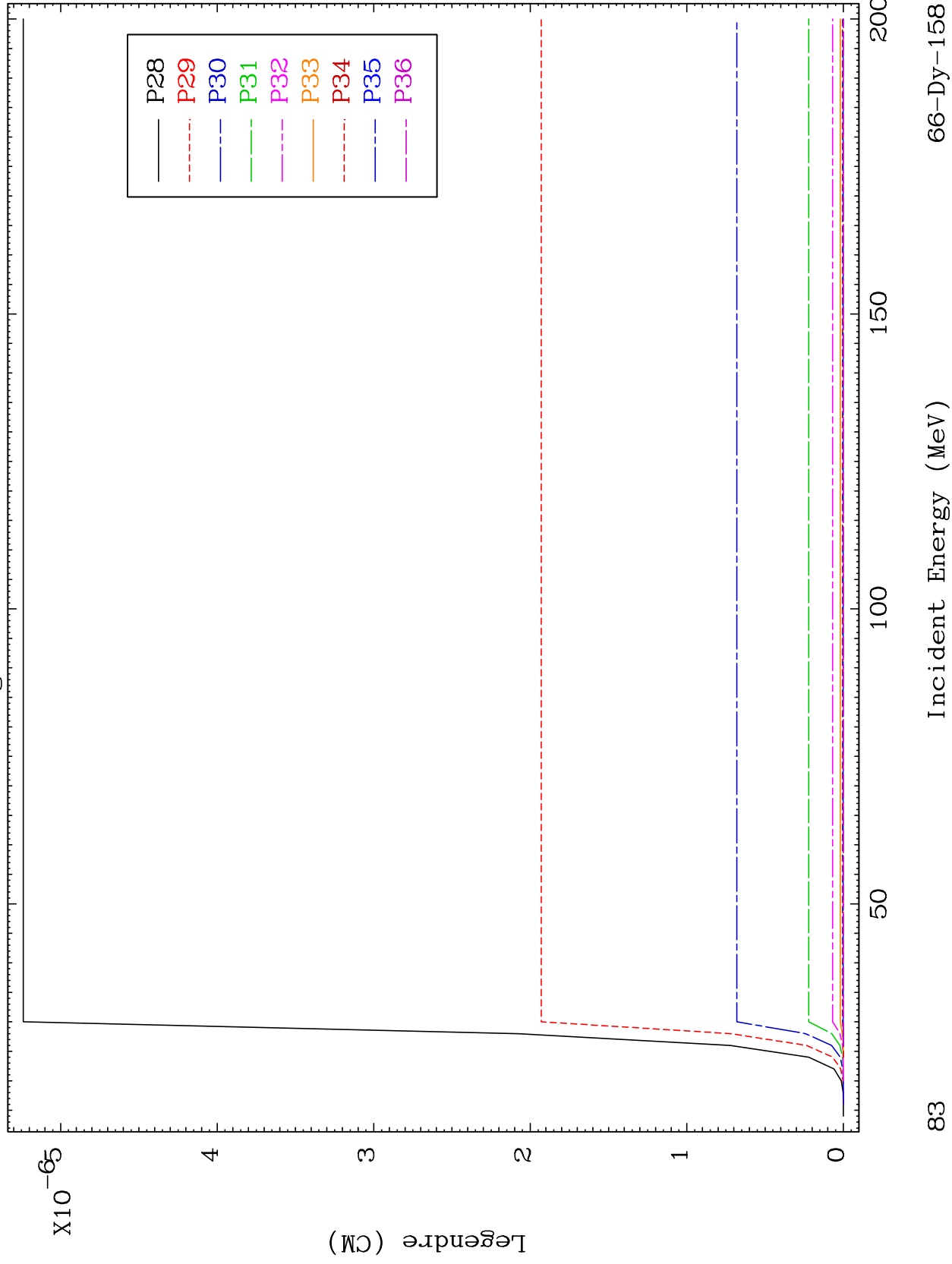


82

MAT 6631

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

66-Dy-158

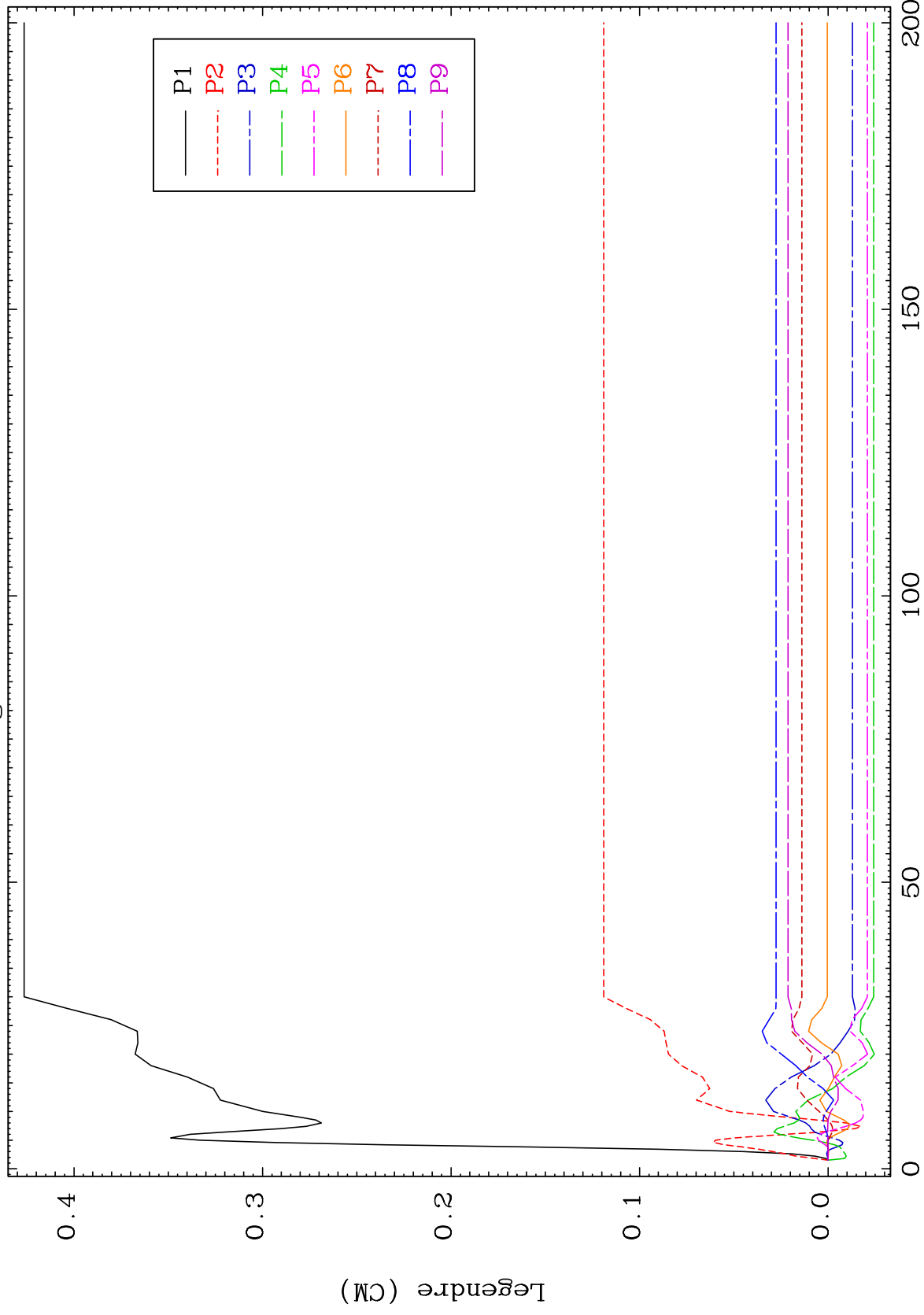


83

MAT 6631

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

66-Dy-158



84

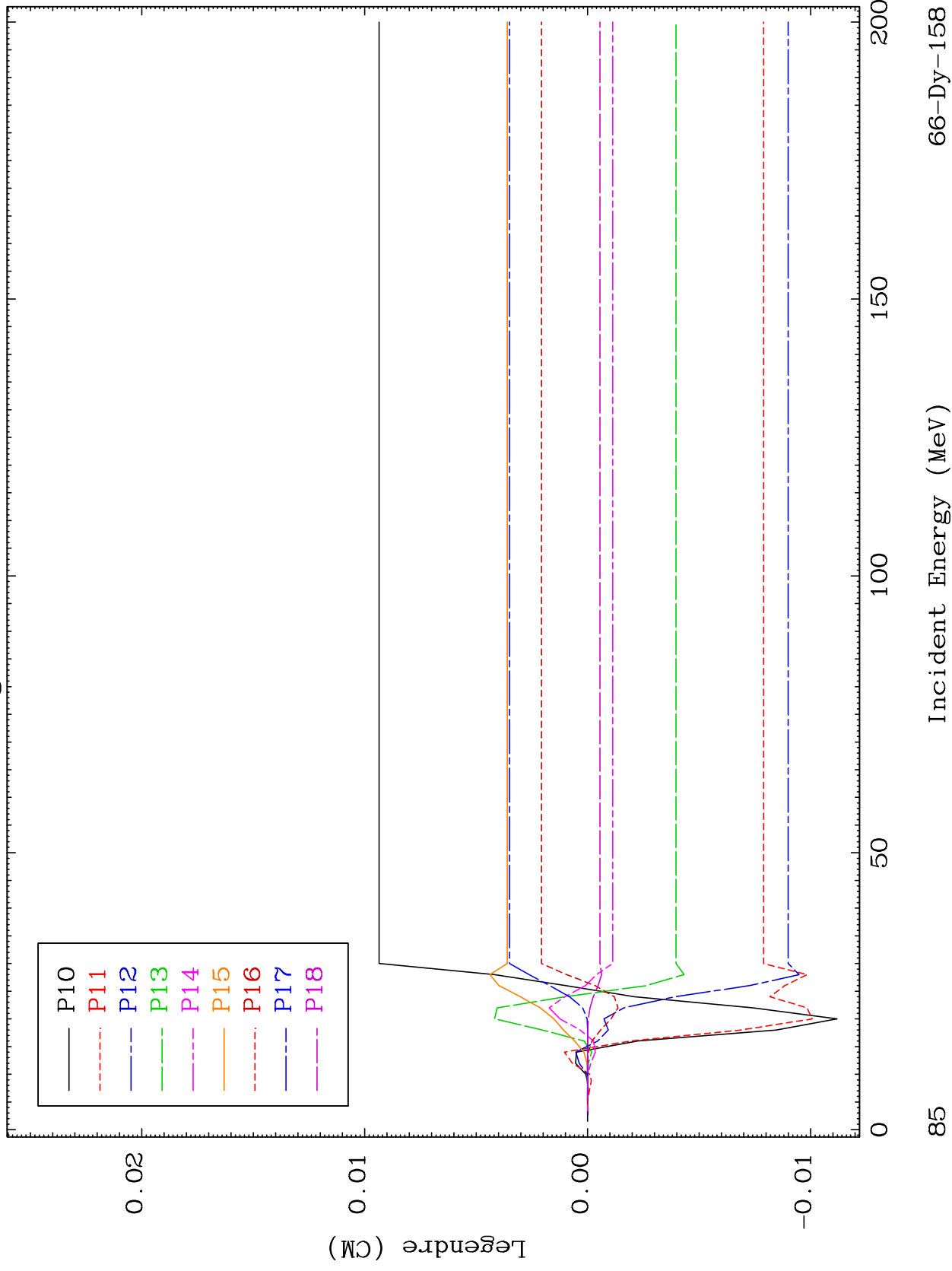
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

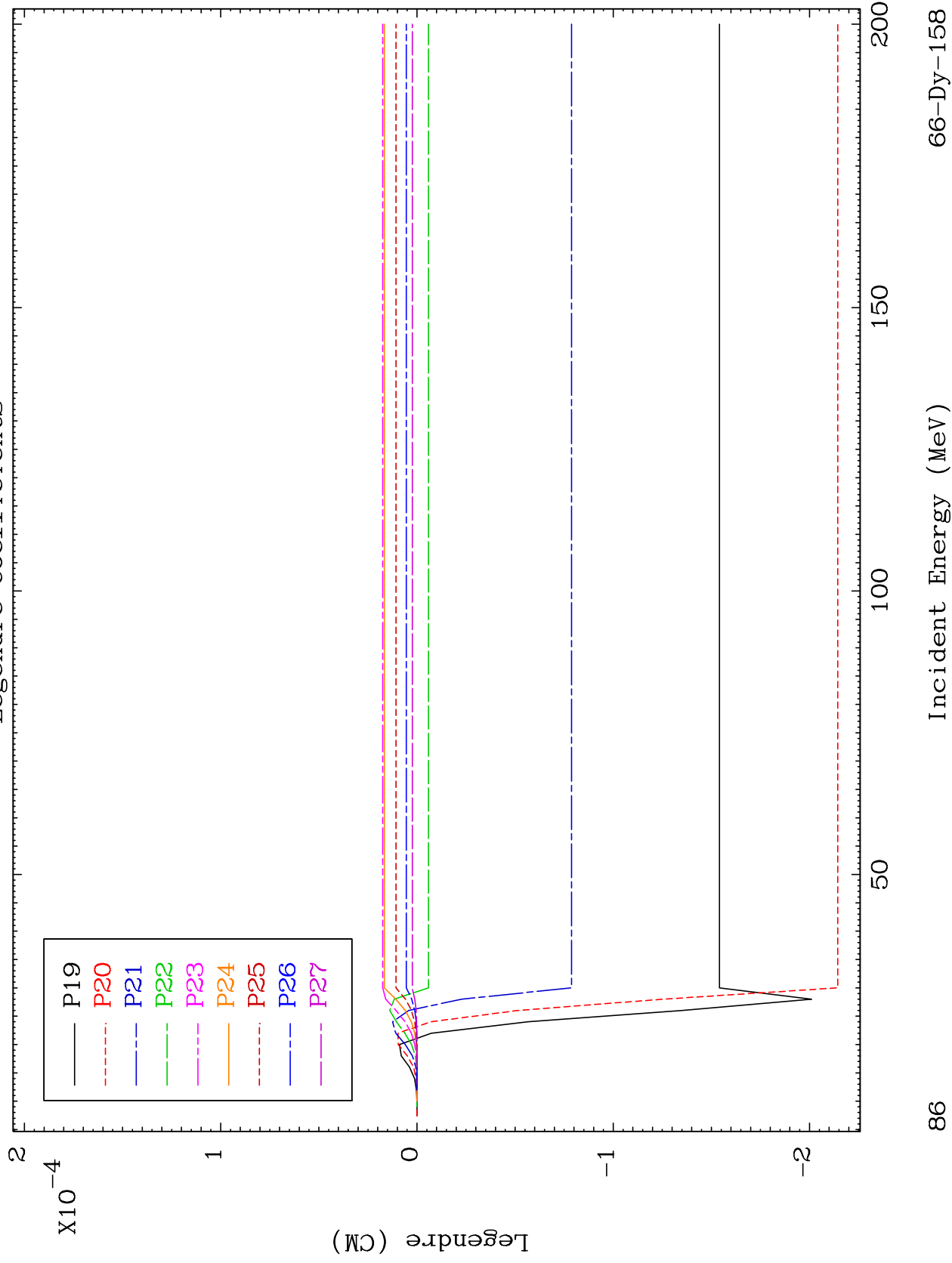
66-Dy-158



66-Dy-158

Incident Energy (MeV)

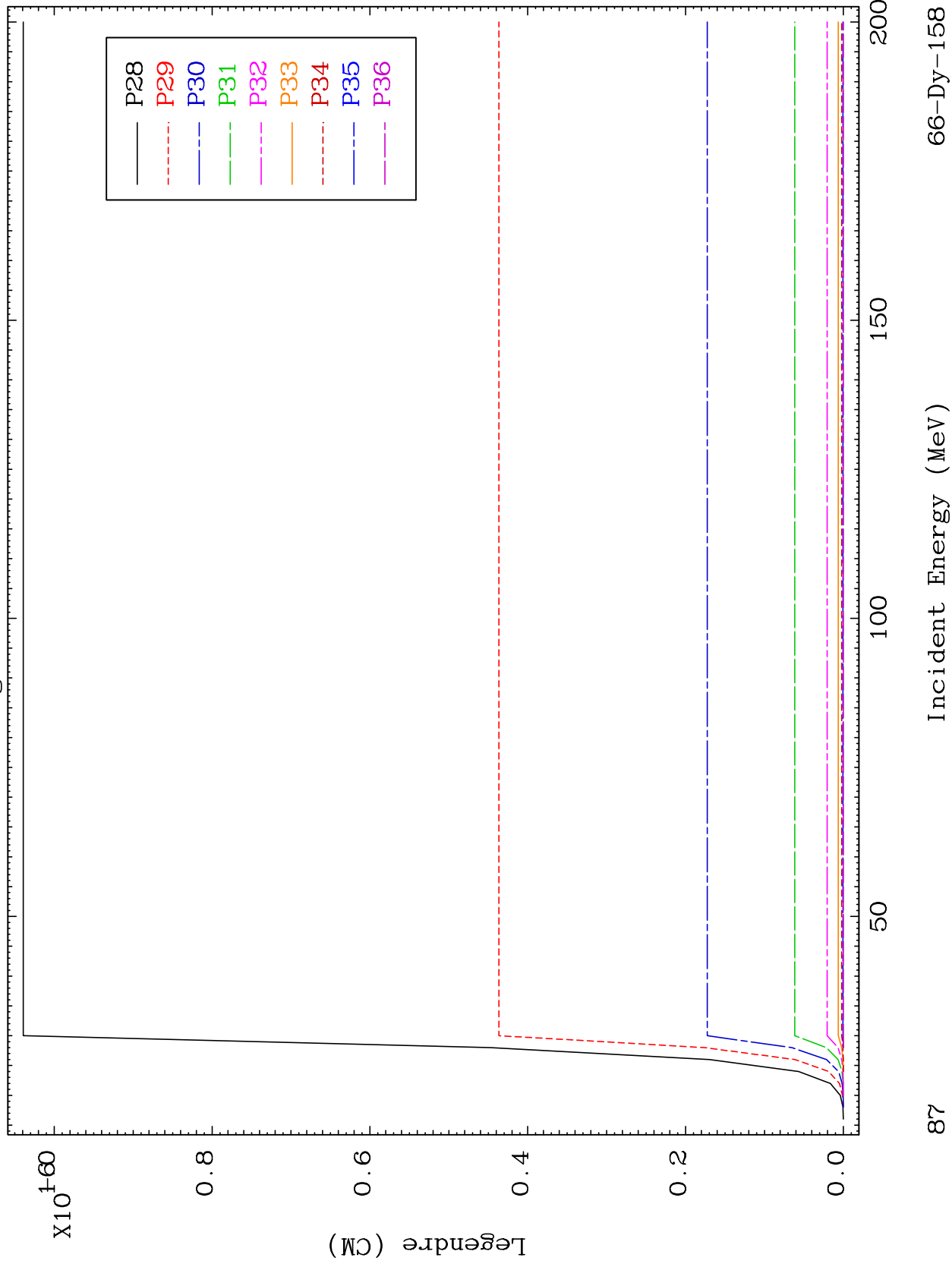
85



MAT 6631

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

66-Dy-158

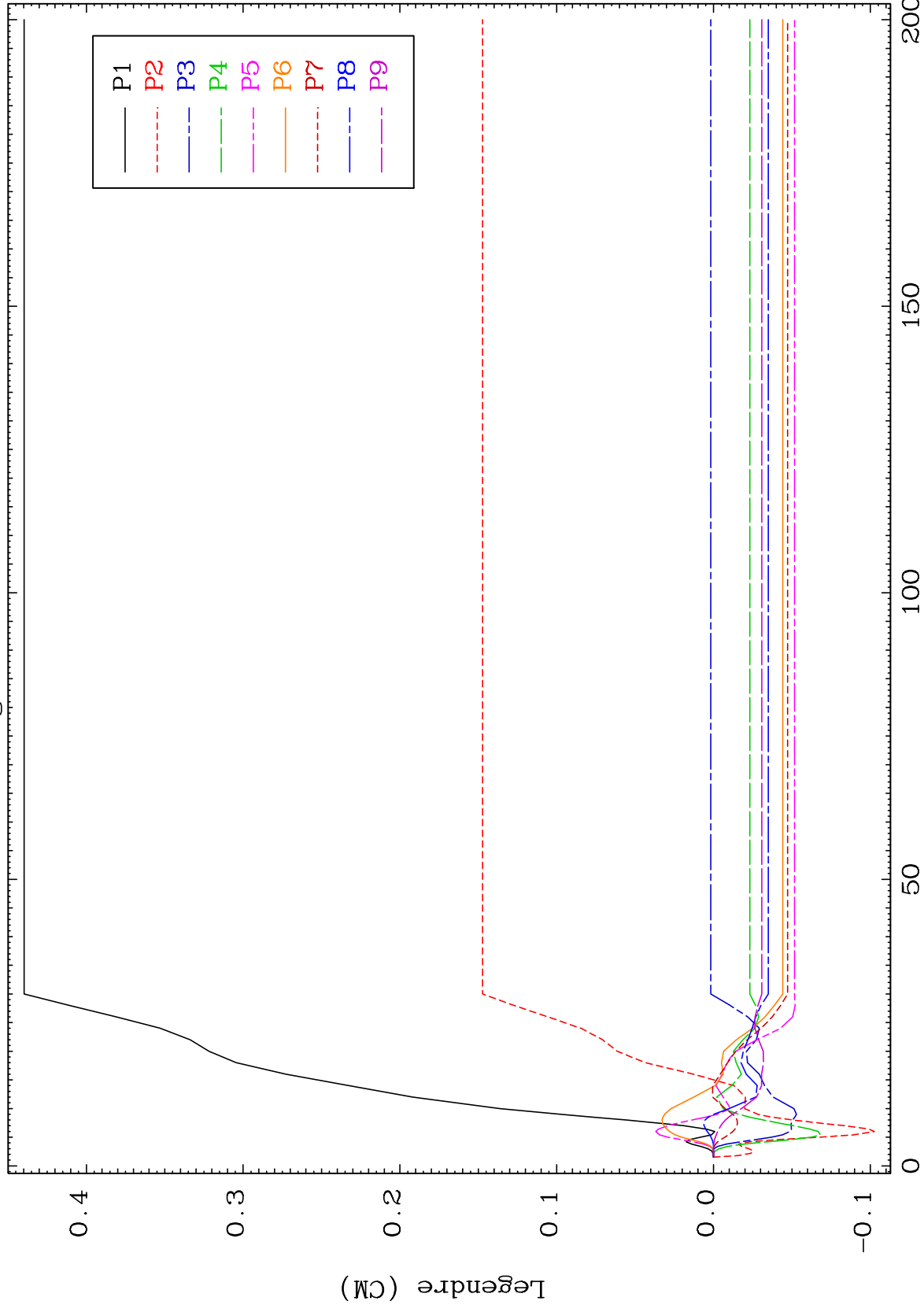




MAT 6631

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

66-Dy-158



66-Dy-158

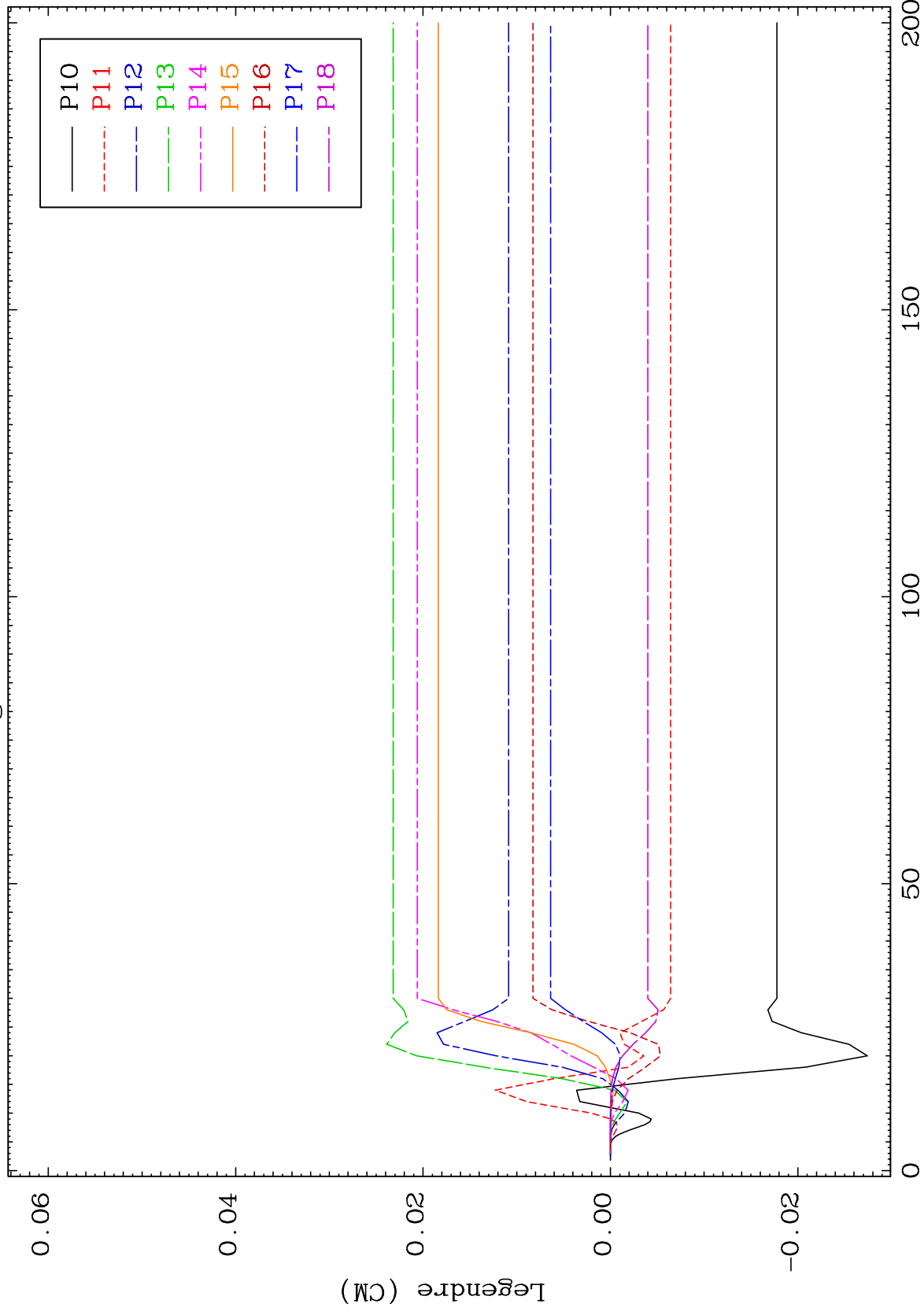
Incident Energy (MeV)

88

MAT 6631

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

66-Dy-158



89

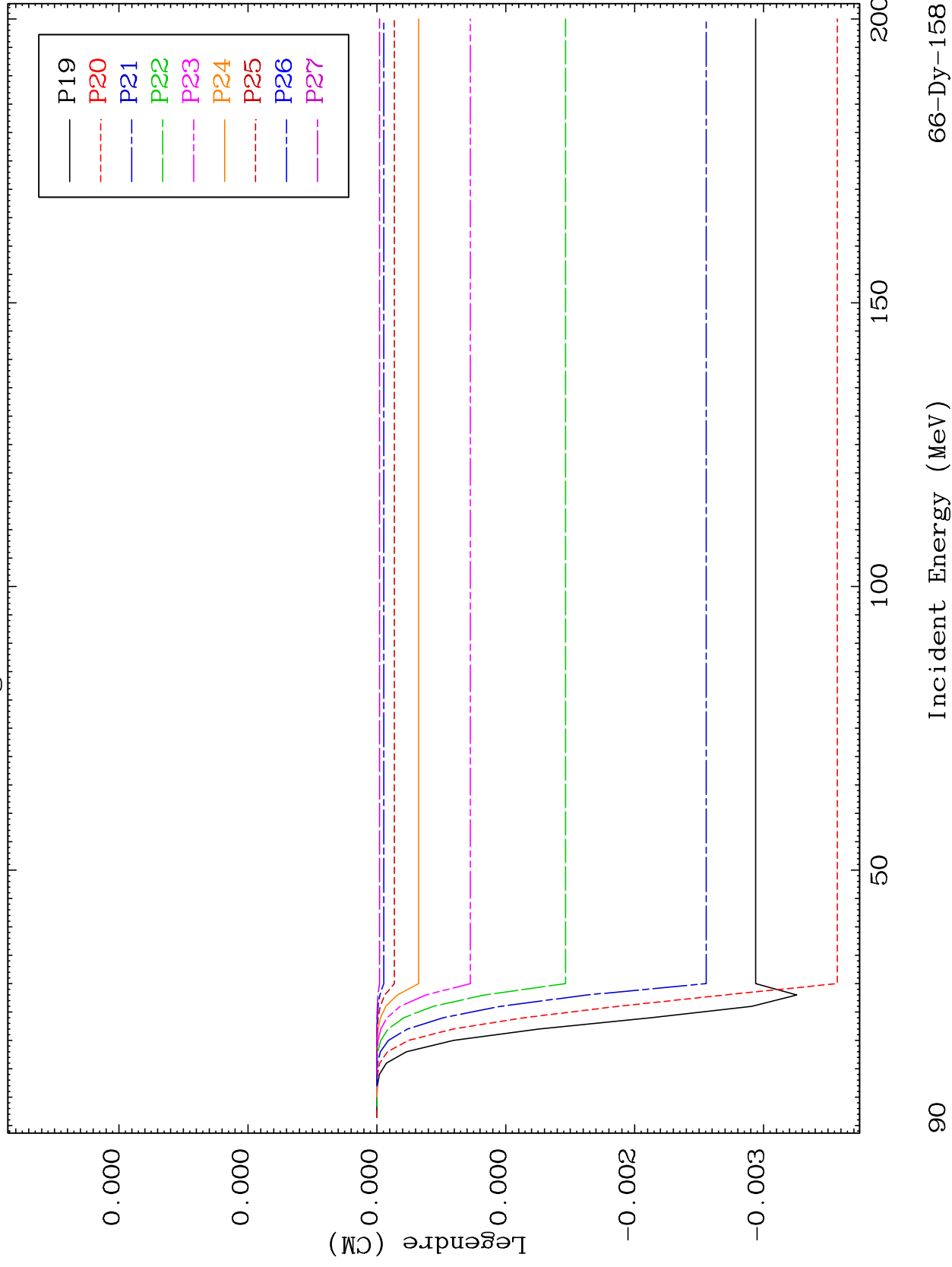
Incident Energy (MeV)

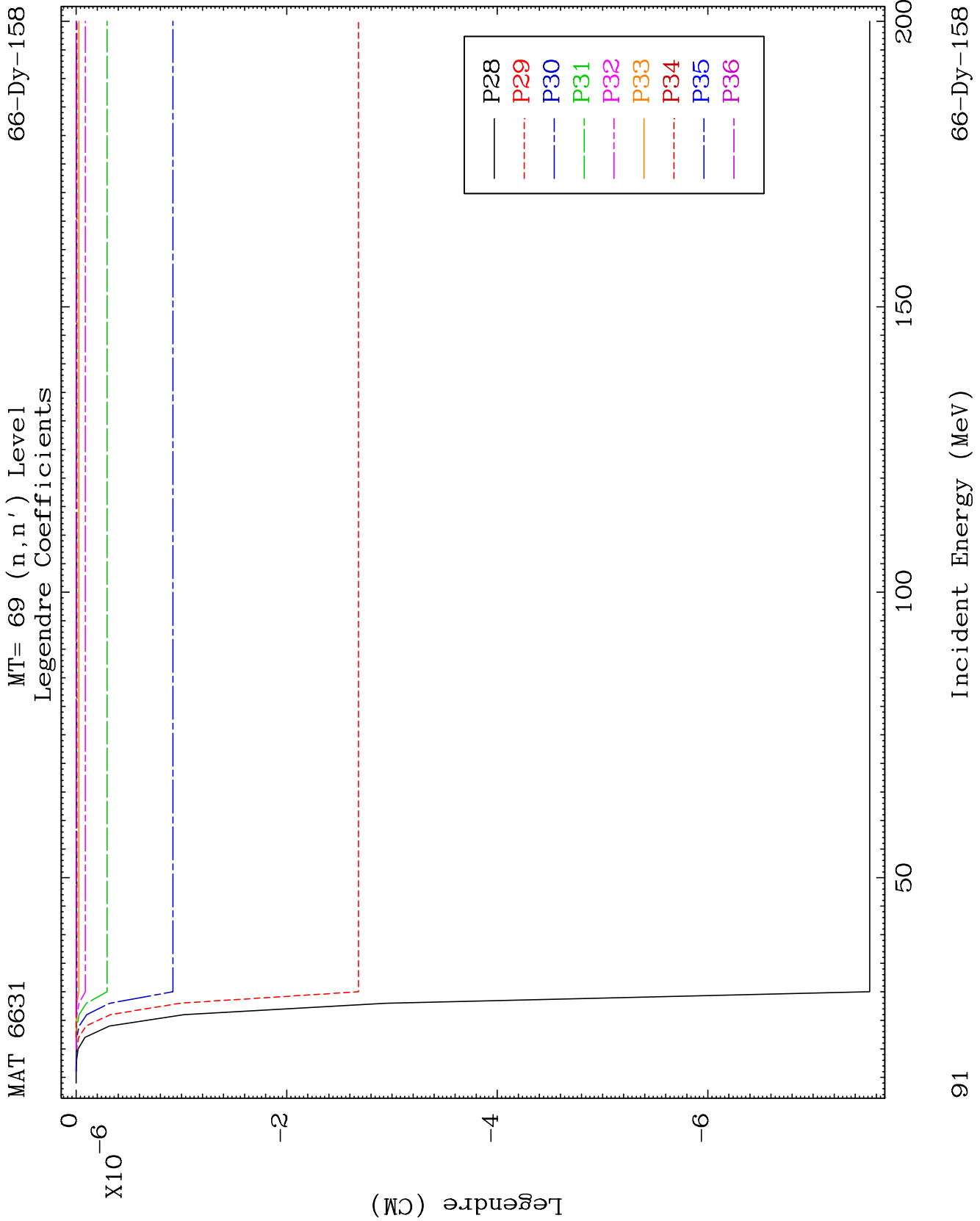
66-Dy-158

MAT 6631

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

66-Dy-158



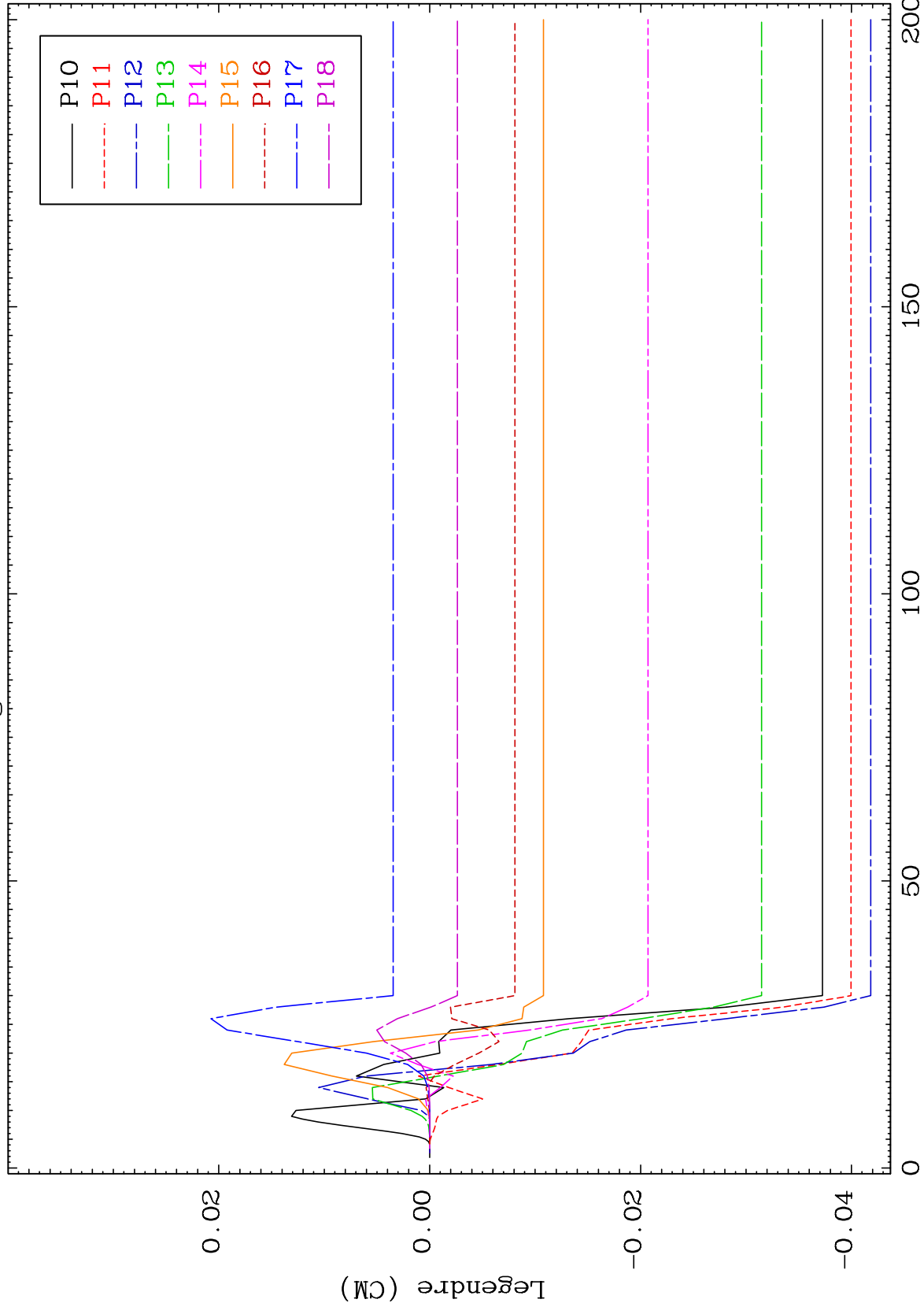




MAT 6631

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

66-Dy-158



93

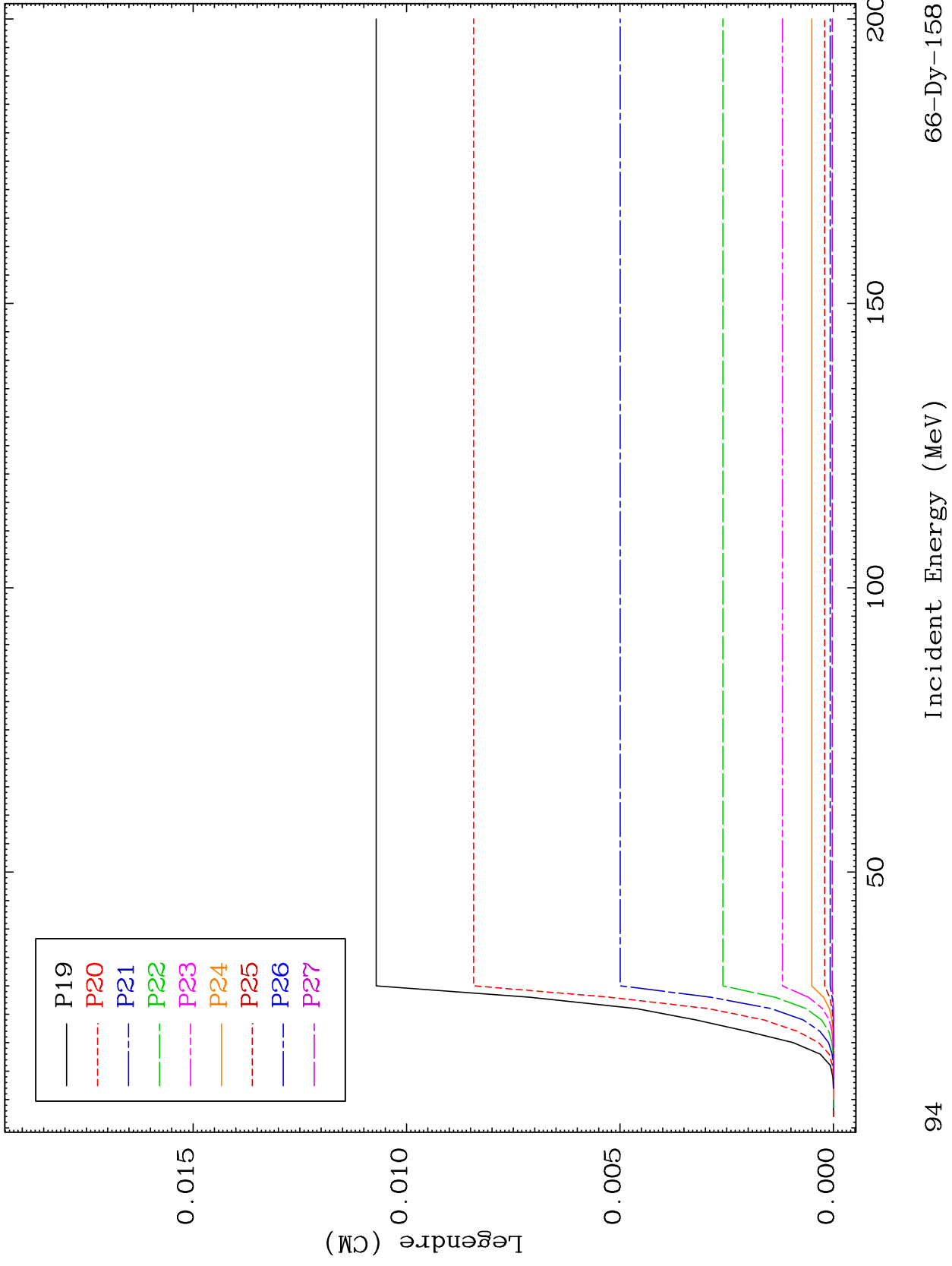
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



94

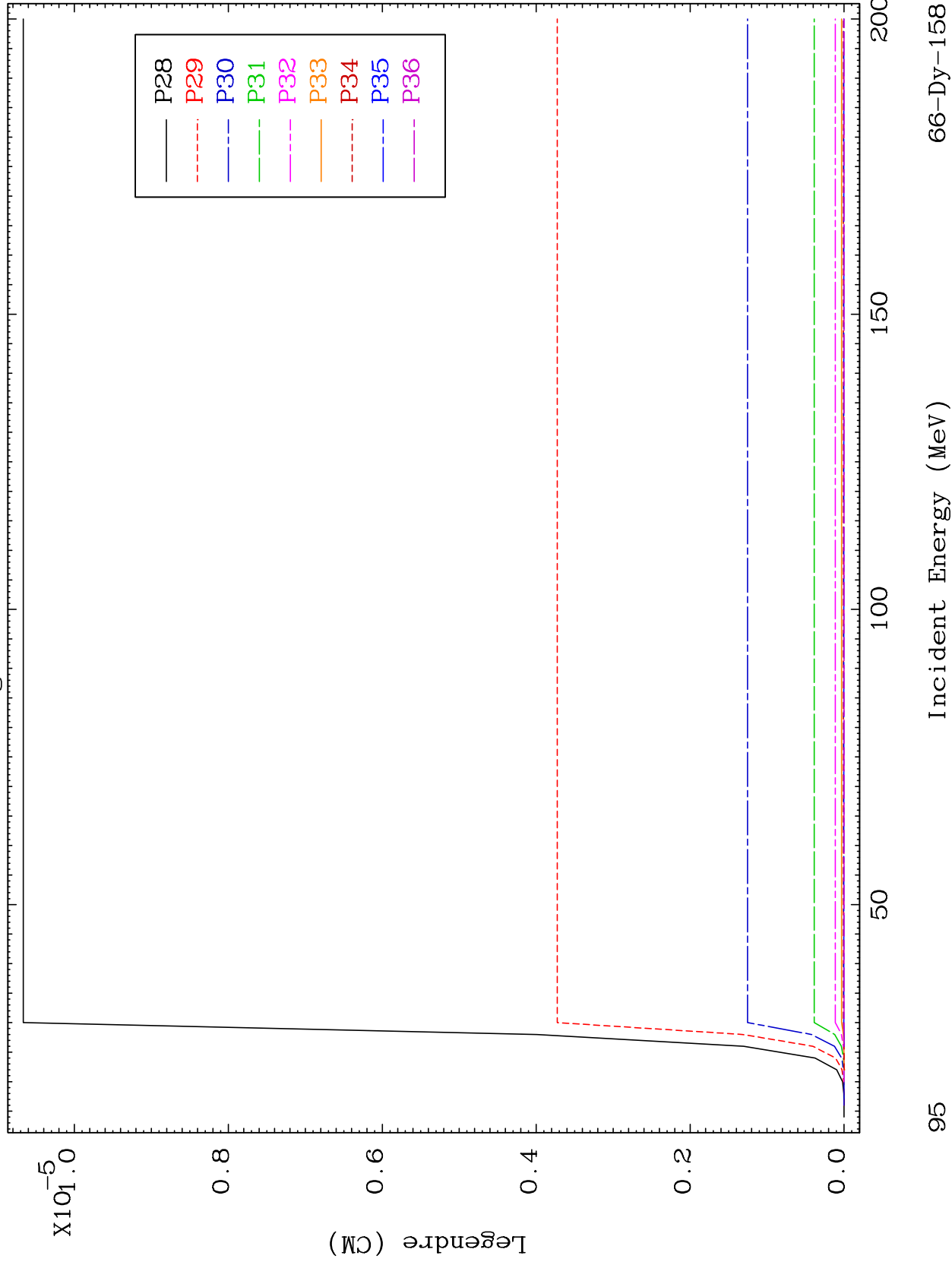
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158

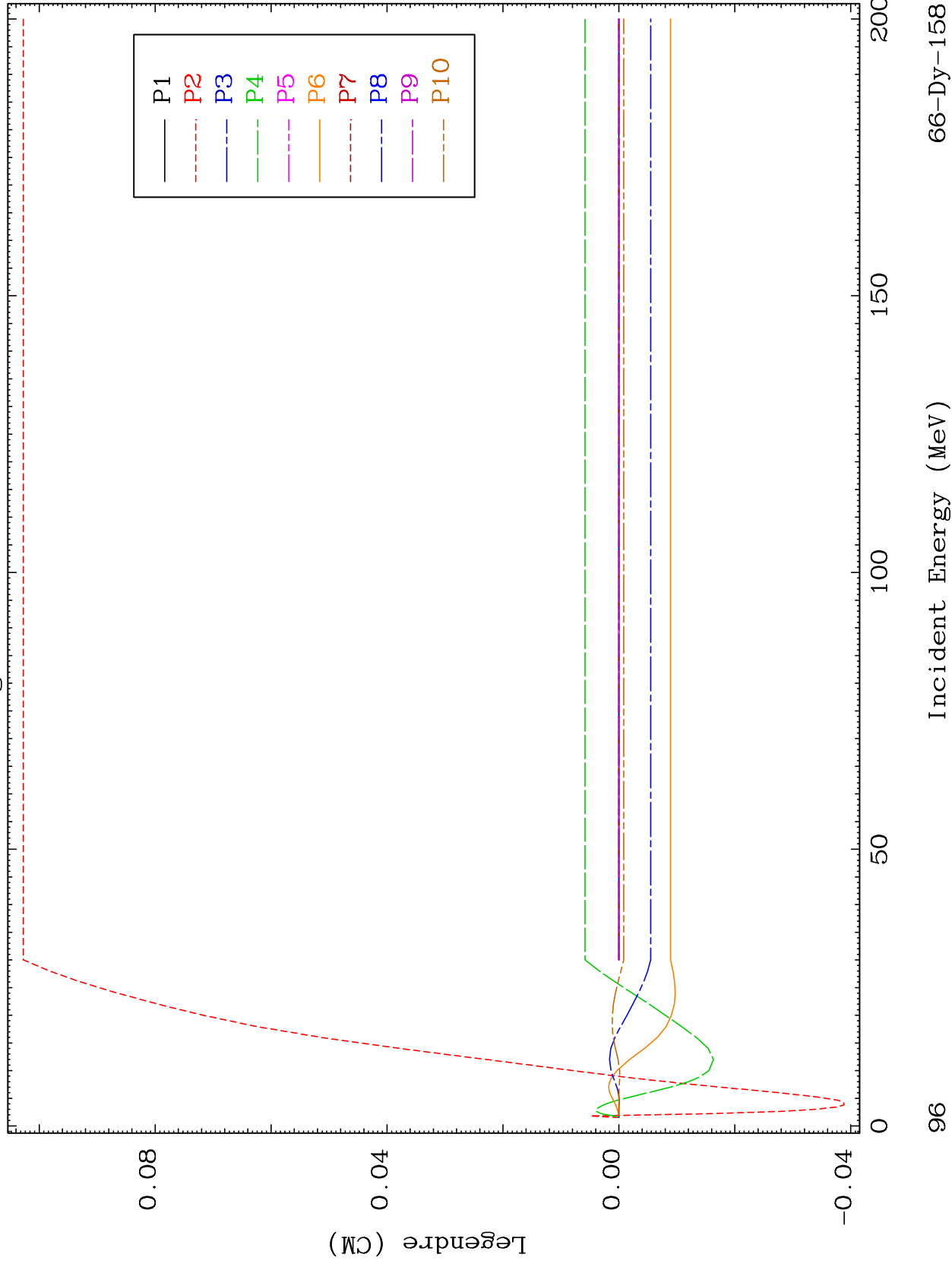




MAT 6631

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

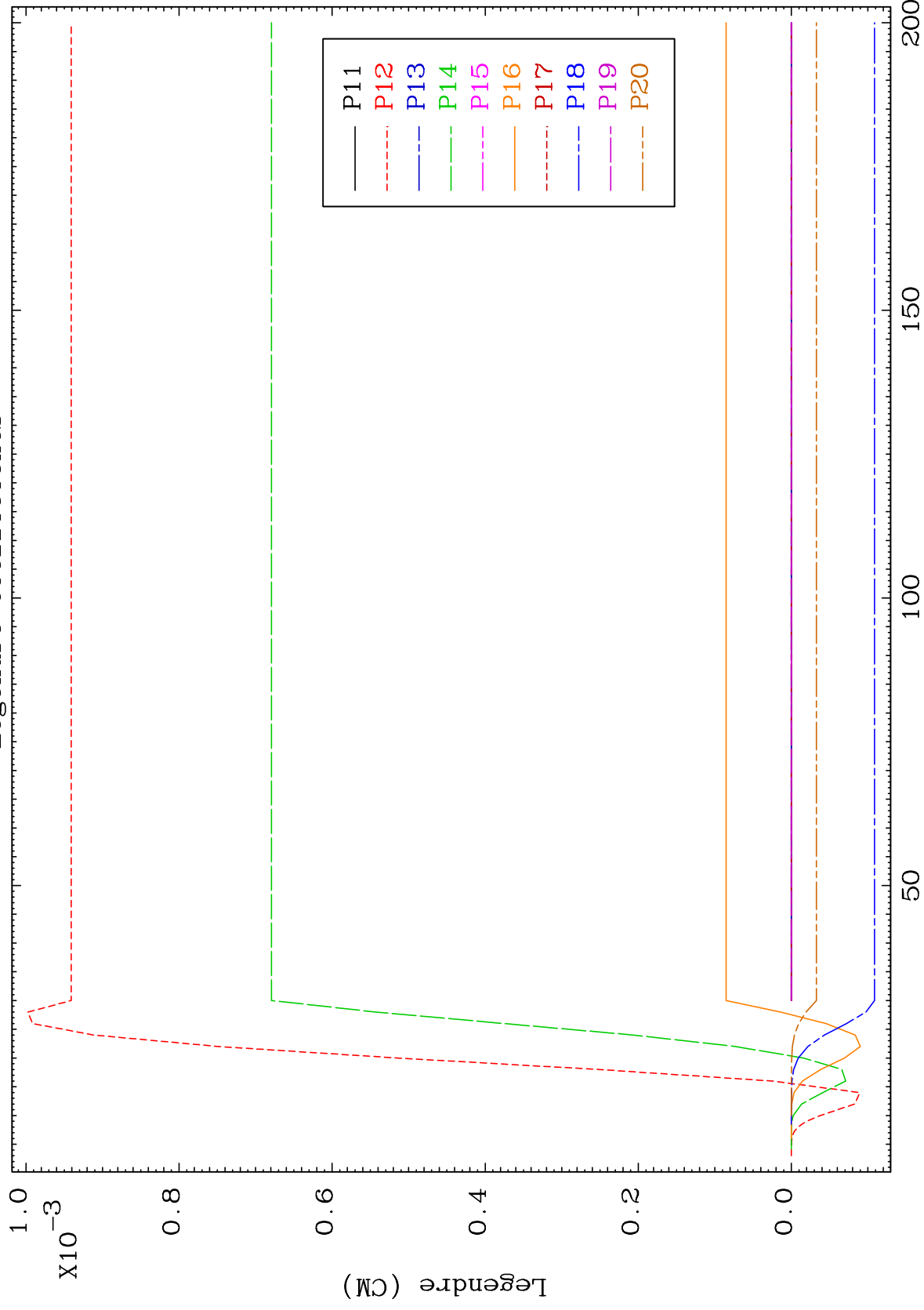
66-Dy-158



MAT 6631

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

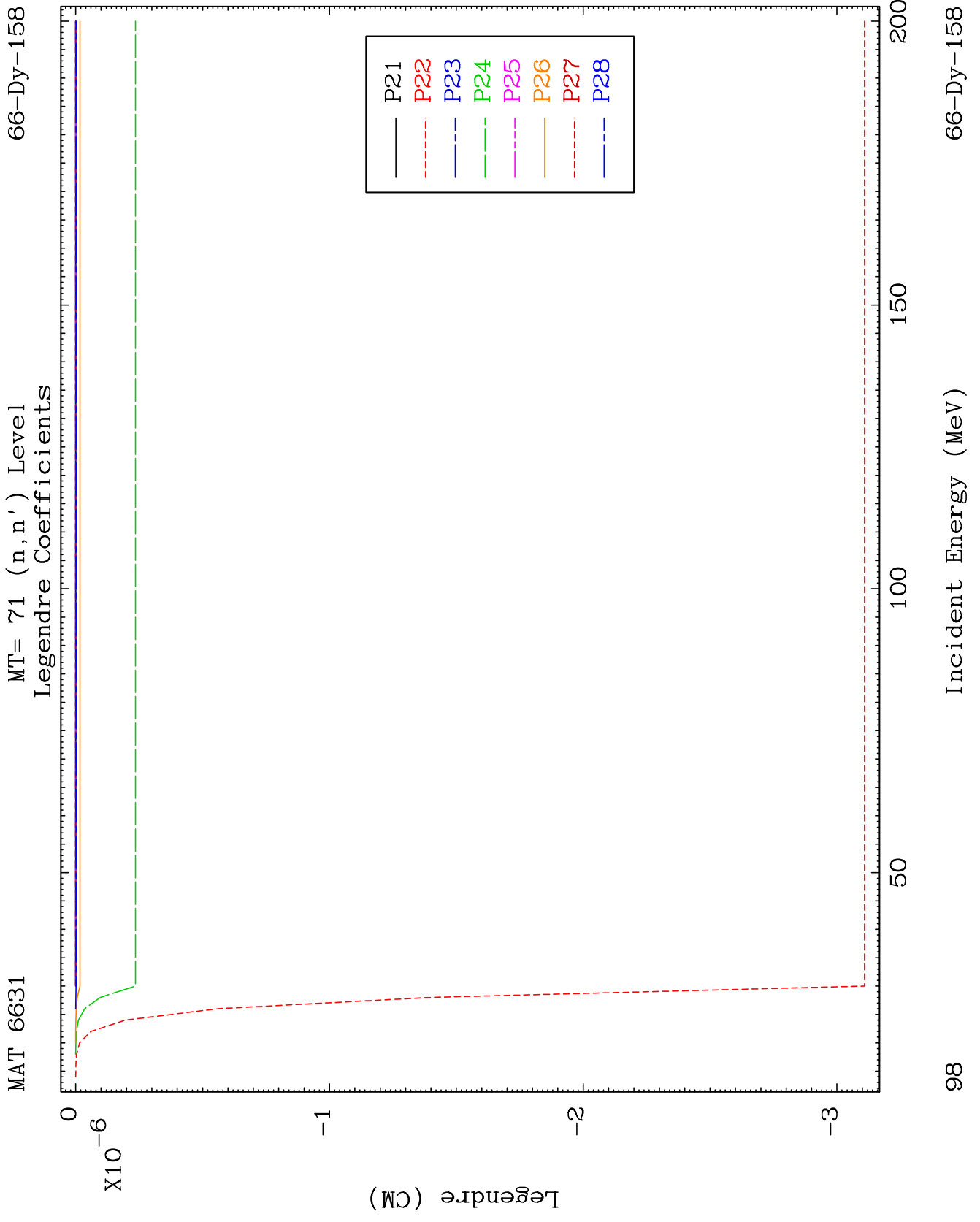
66-Dy-158



97

Incident Energy (MeV)

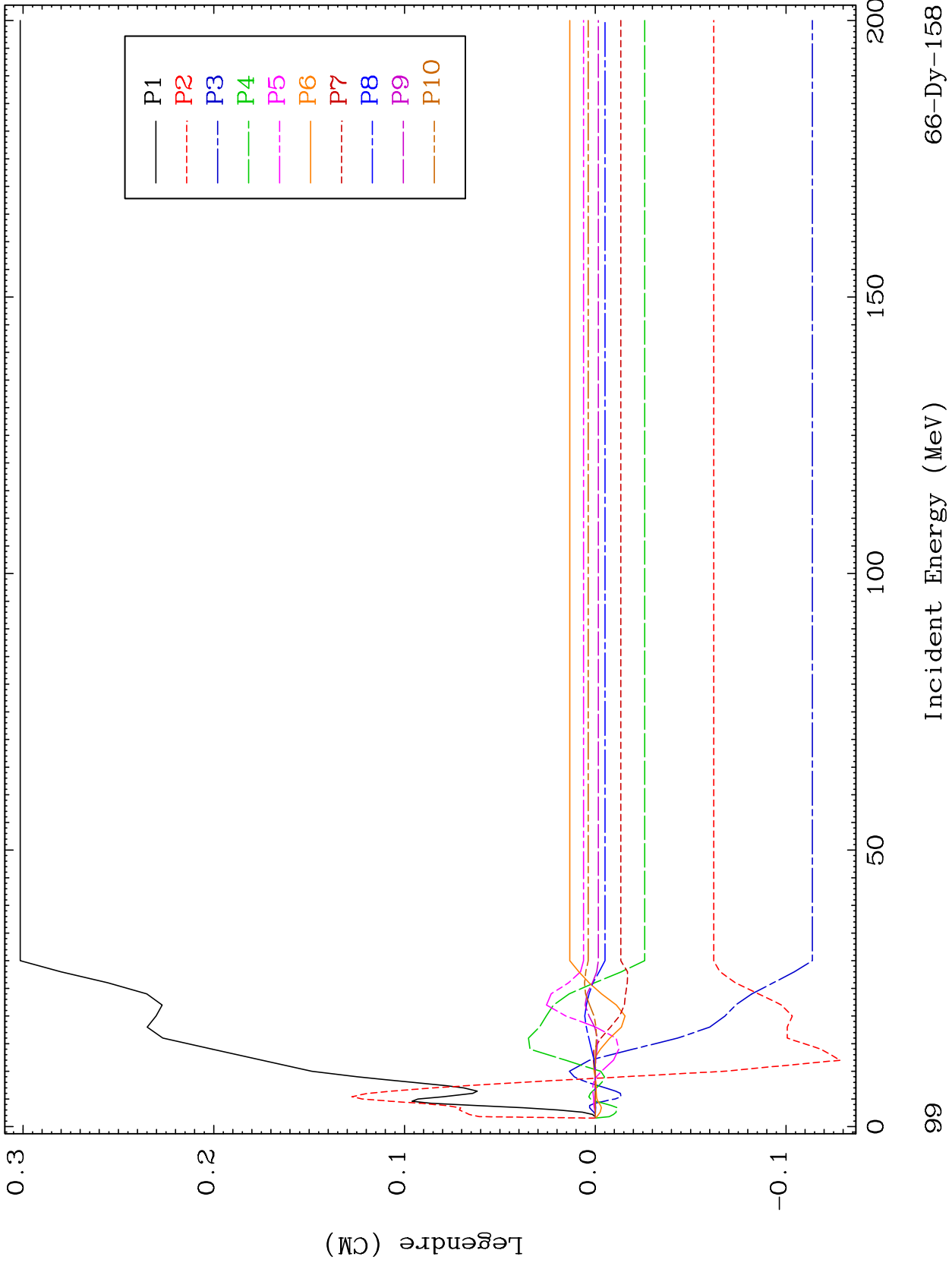
66-Dy-158



MAT 6631

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

66-Dy-158



66-Dy-158

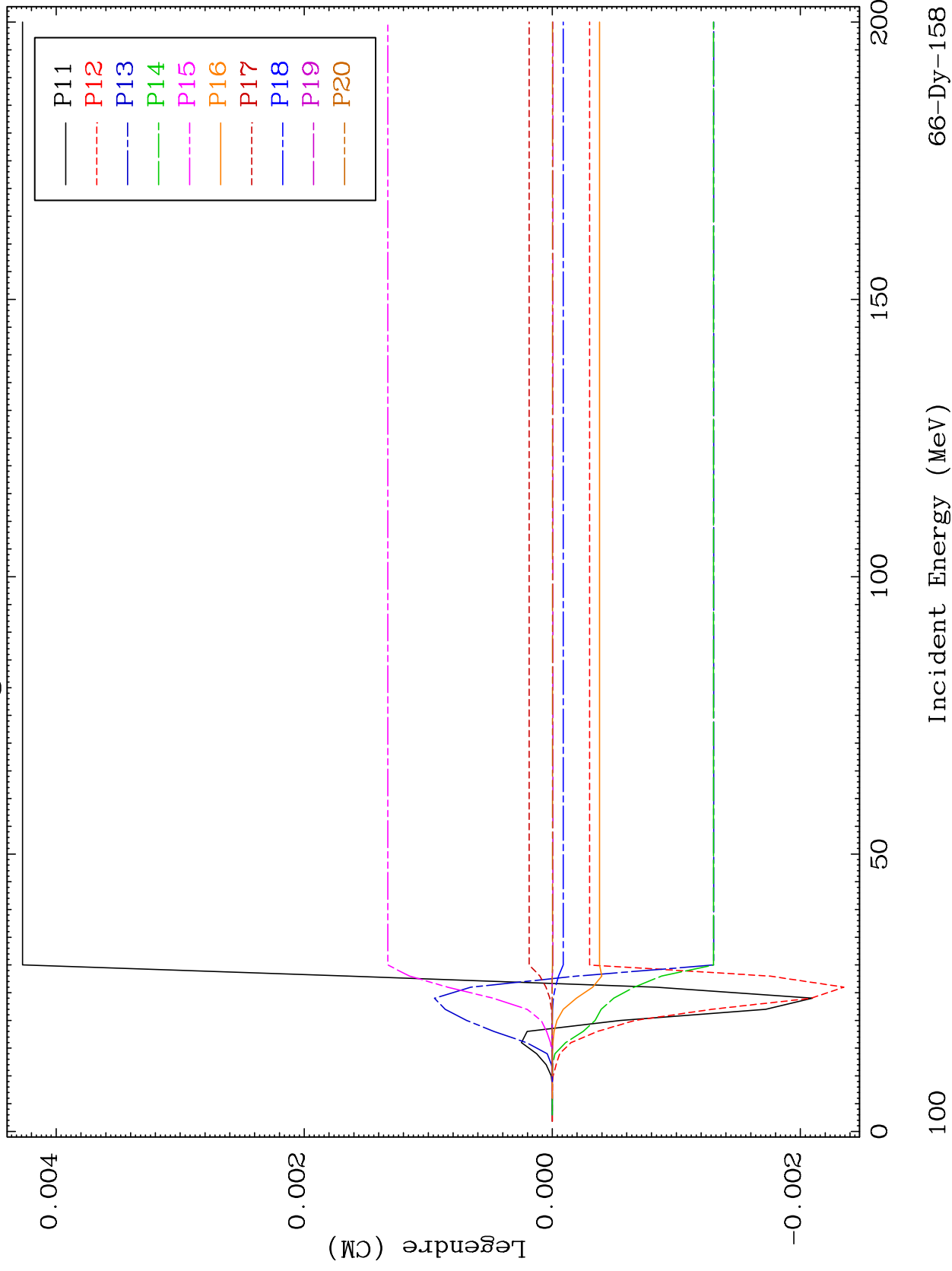
Incident Energy (MeV)

99

MAT 6631

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

66-Dy-158



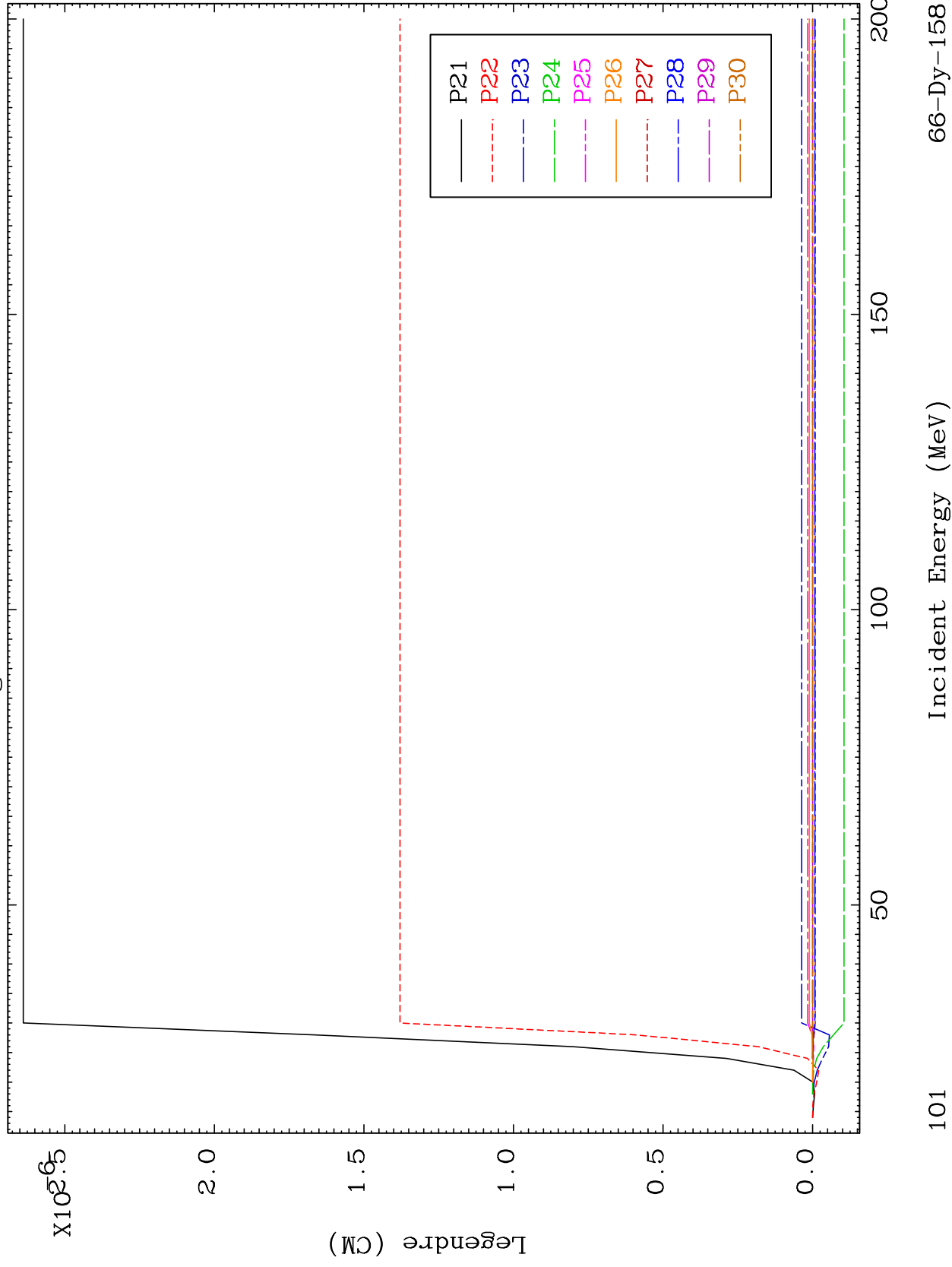
66-Dy-158

Incident Energy (MeV)

MAT 6631

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

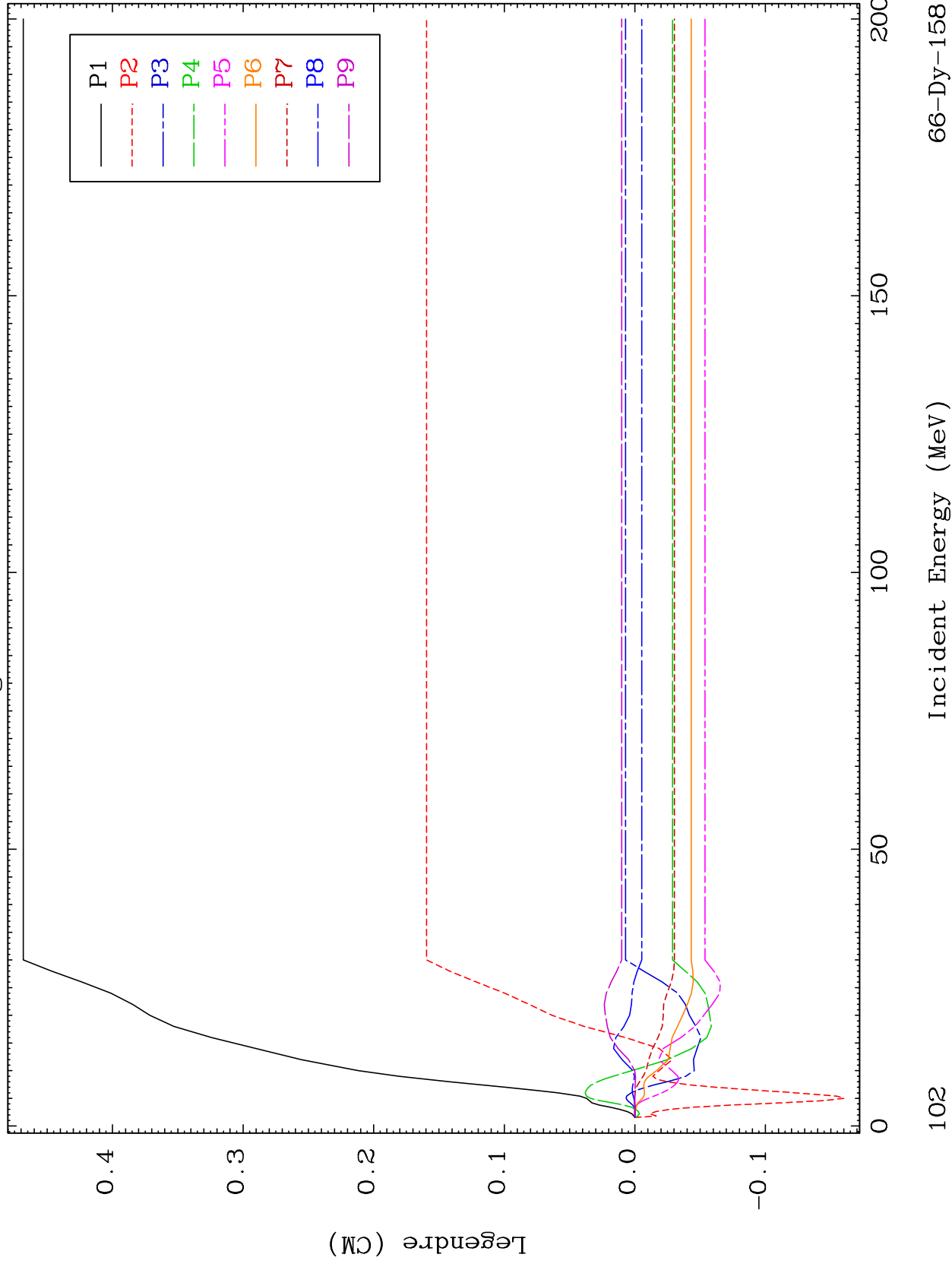
66-Dy-158



MAT 6631

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

66-Dy-158



66-Dy-158

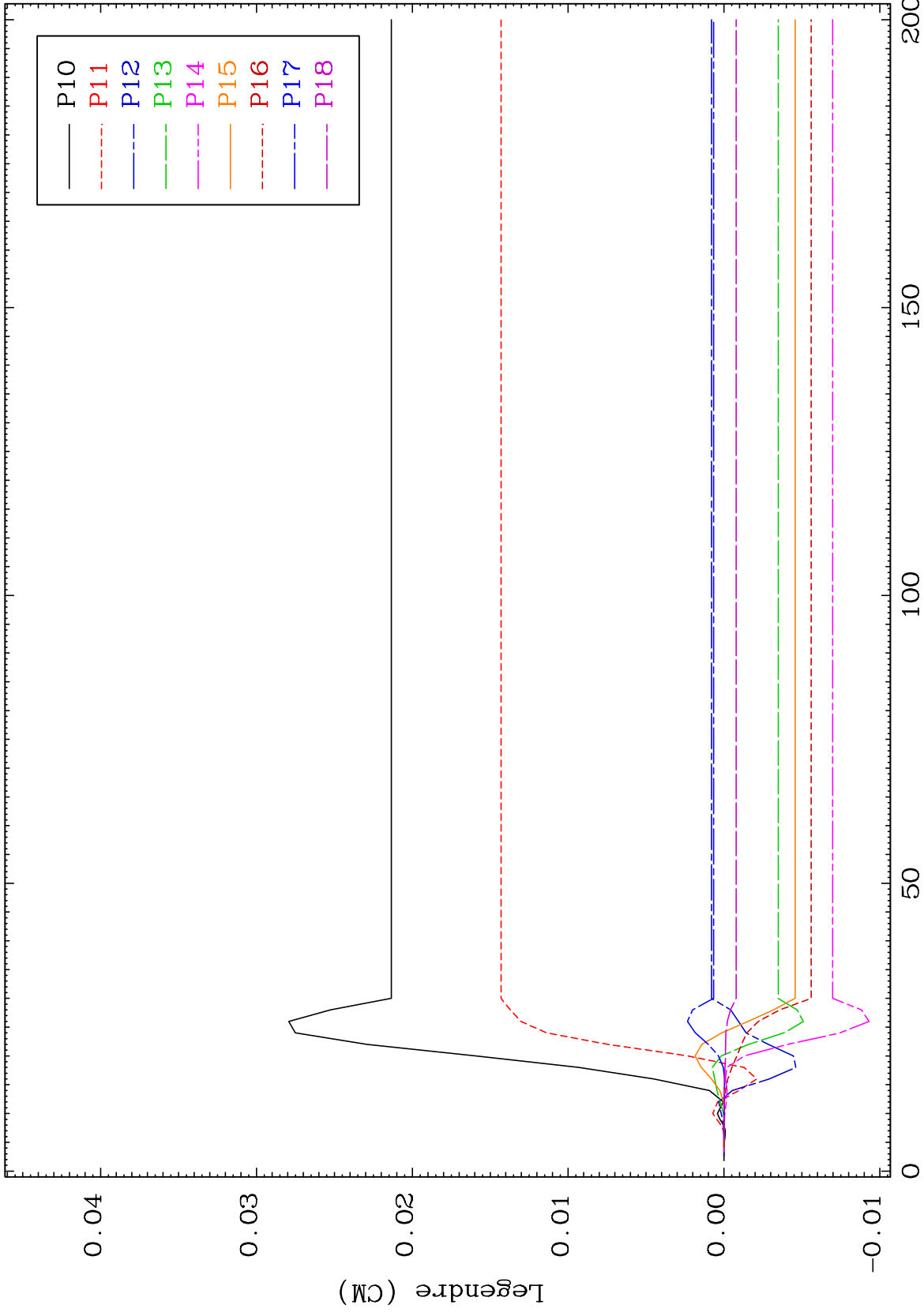
Incident Energy (MeV)

102

MAT 6631

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

66-Dy-158



103

Incident Energy (MeV)

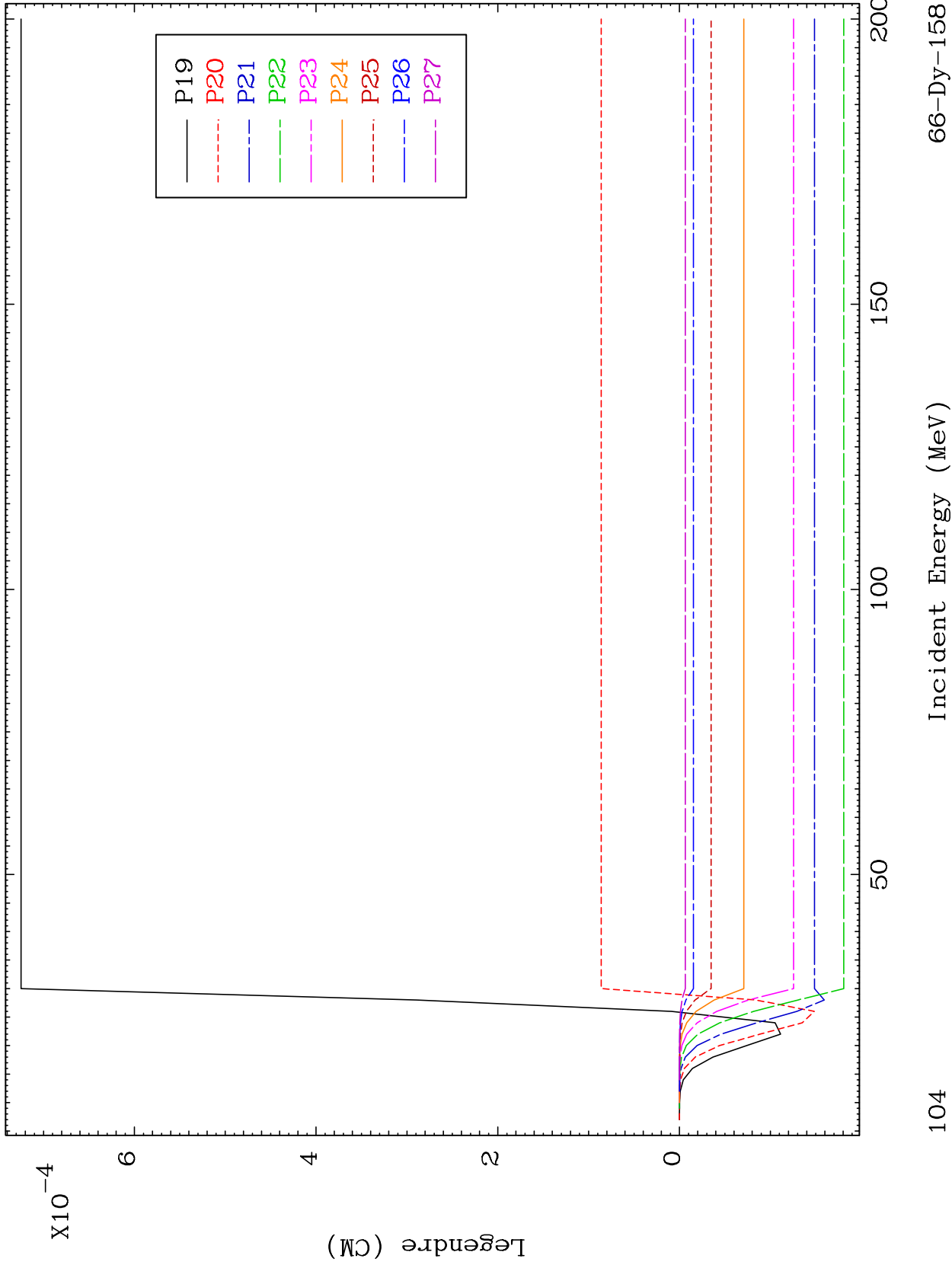
66-Dy-158



MAT 6631

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

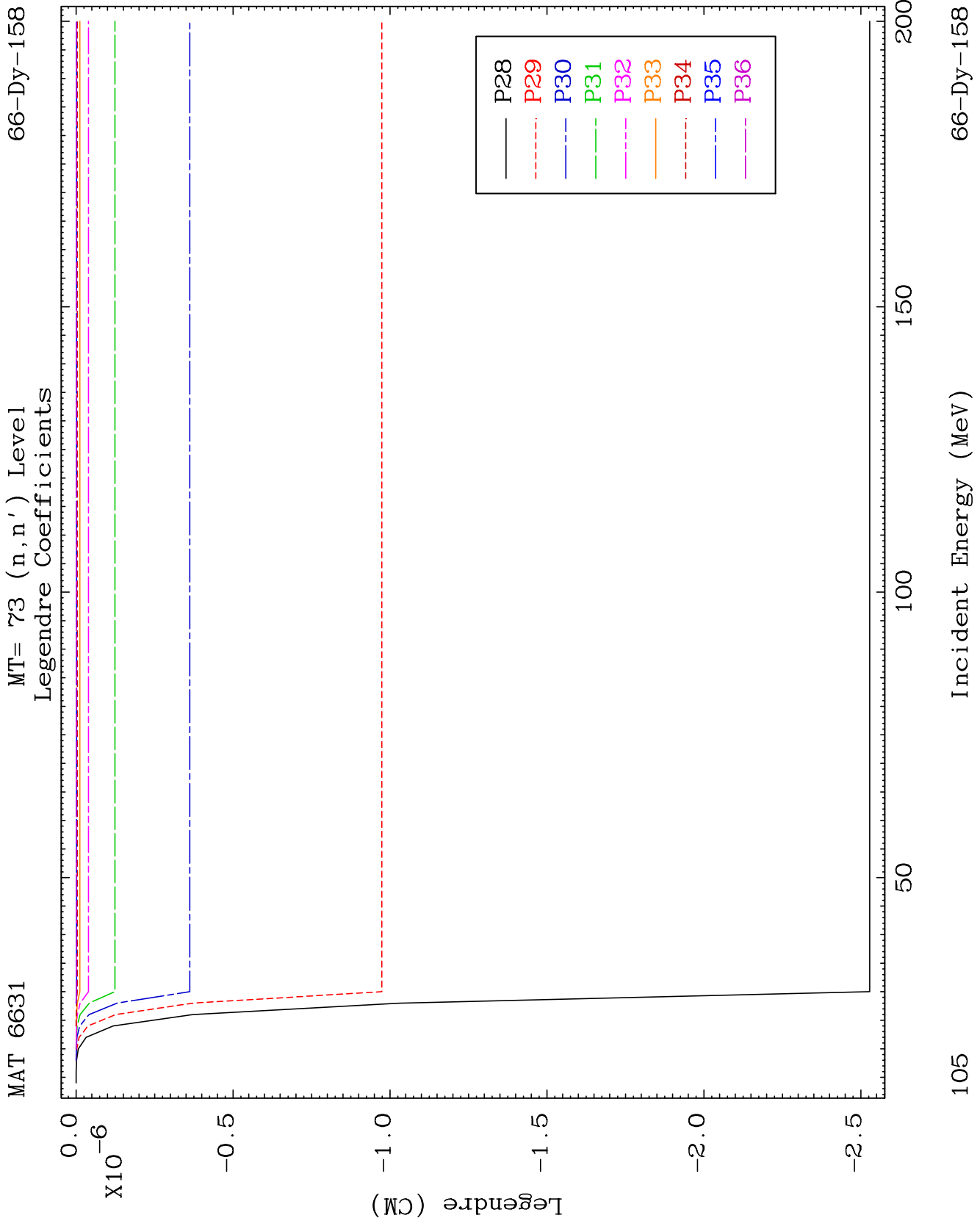
66-Dy-158



104

Incident Energy (MeV)

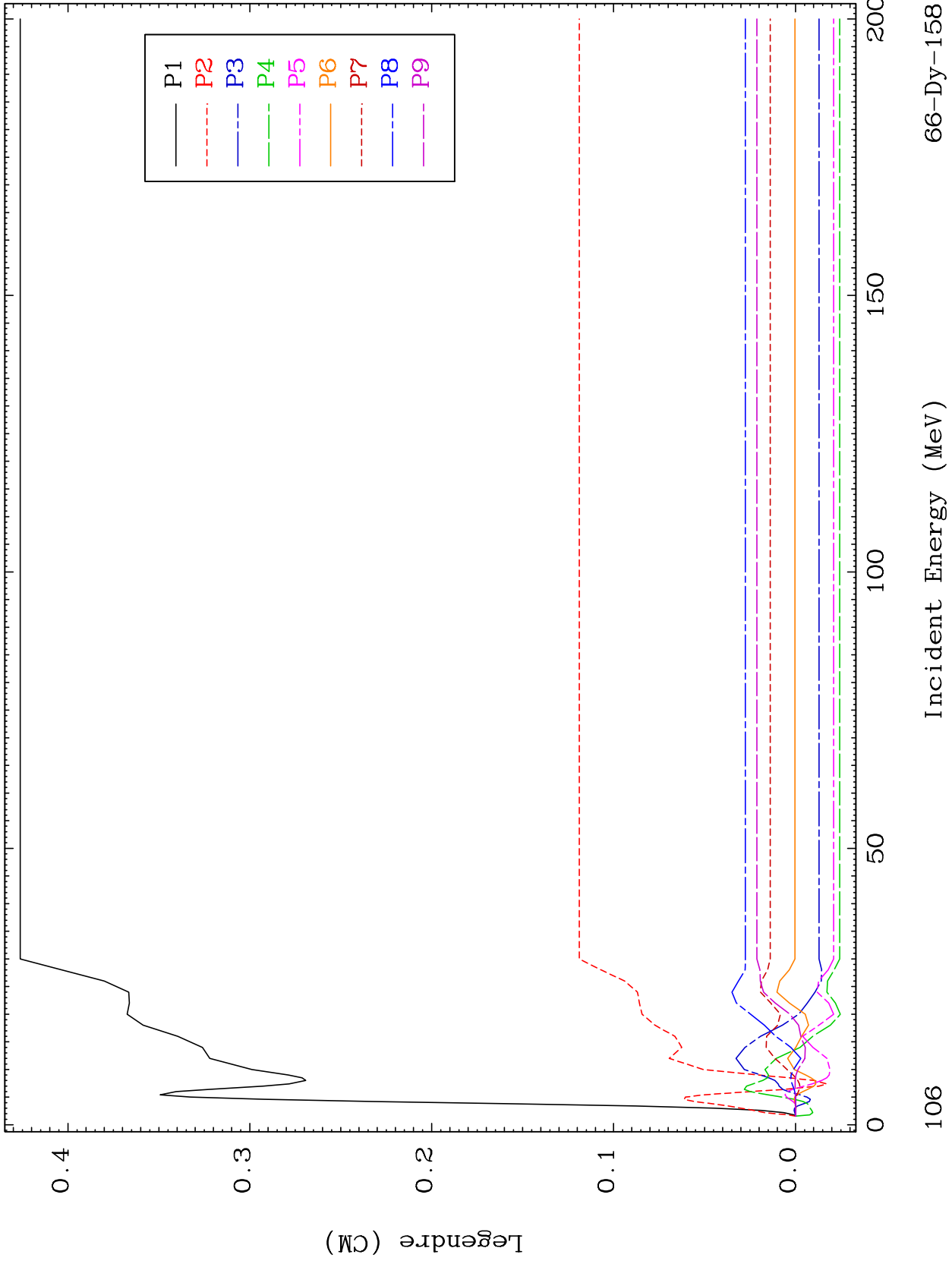
66-Dy-158



MAT 6631

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

66-Dy-158



66-Dy-158

Incident Energy (MeV)

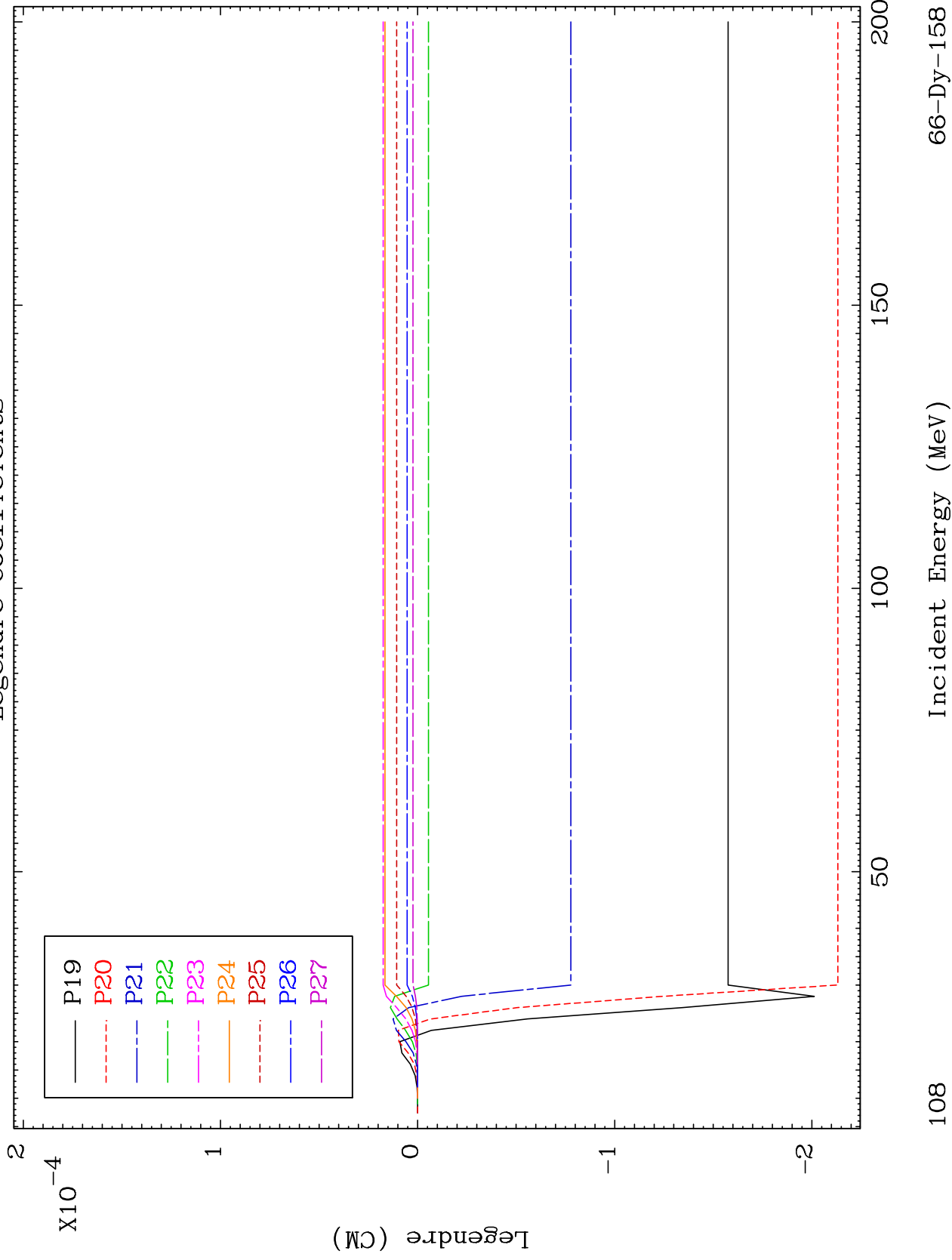
106



MAT 6631

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

66-Dy-158



108

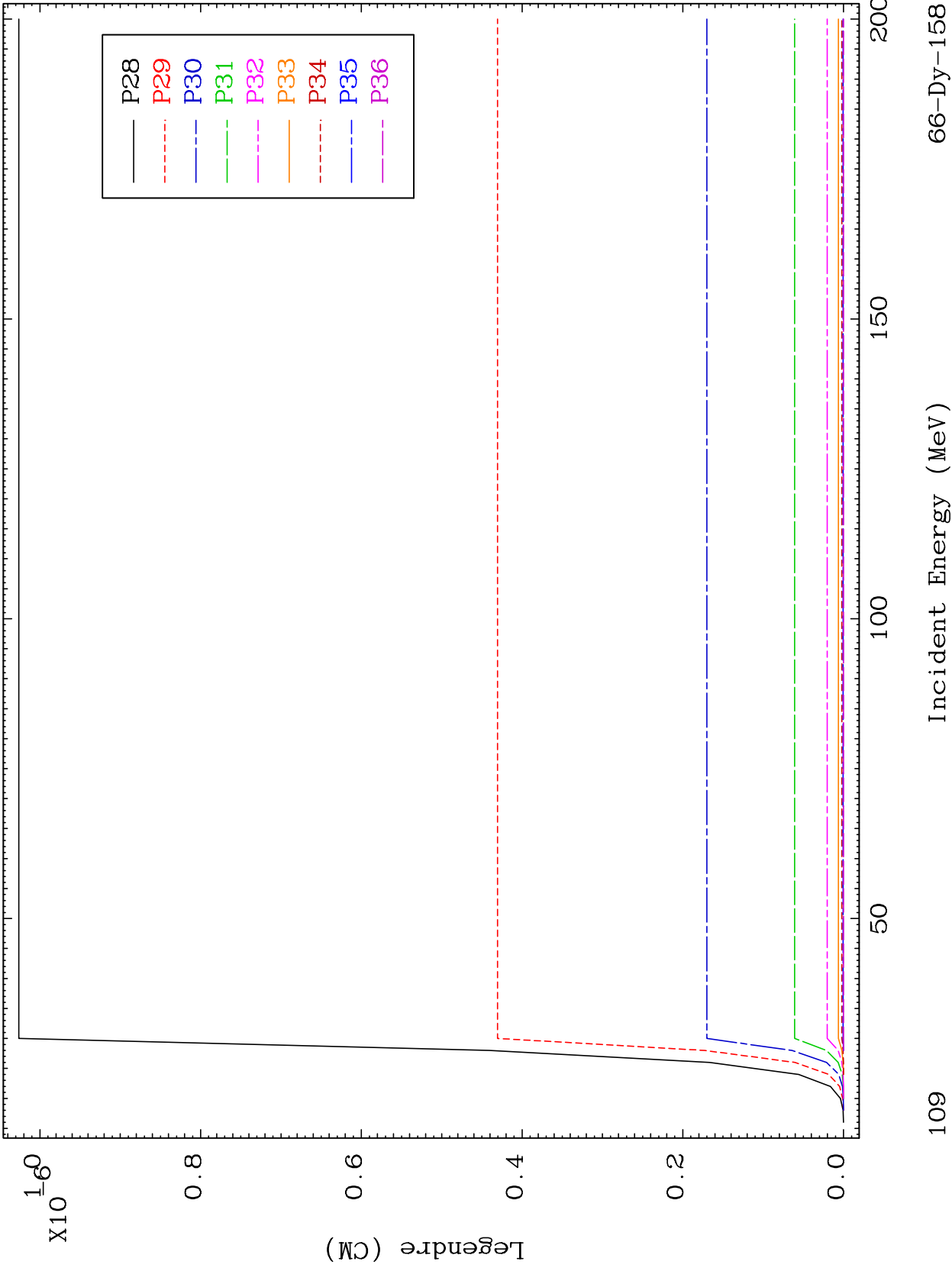
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

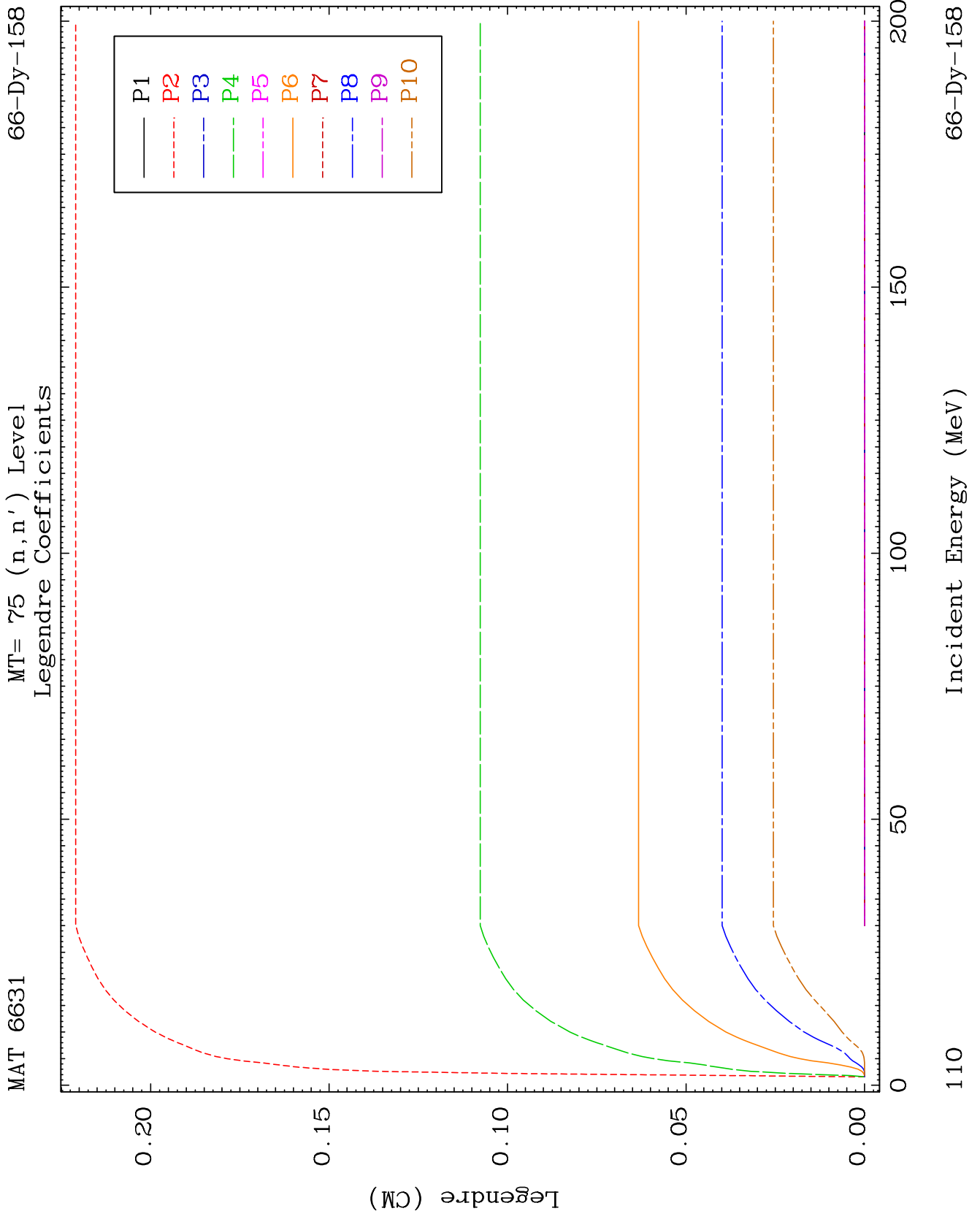
66-Dy-158



109

Incident Energy (MeV)

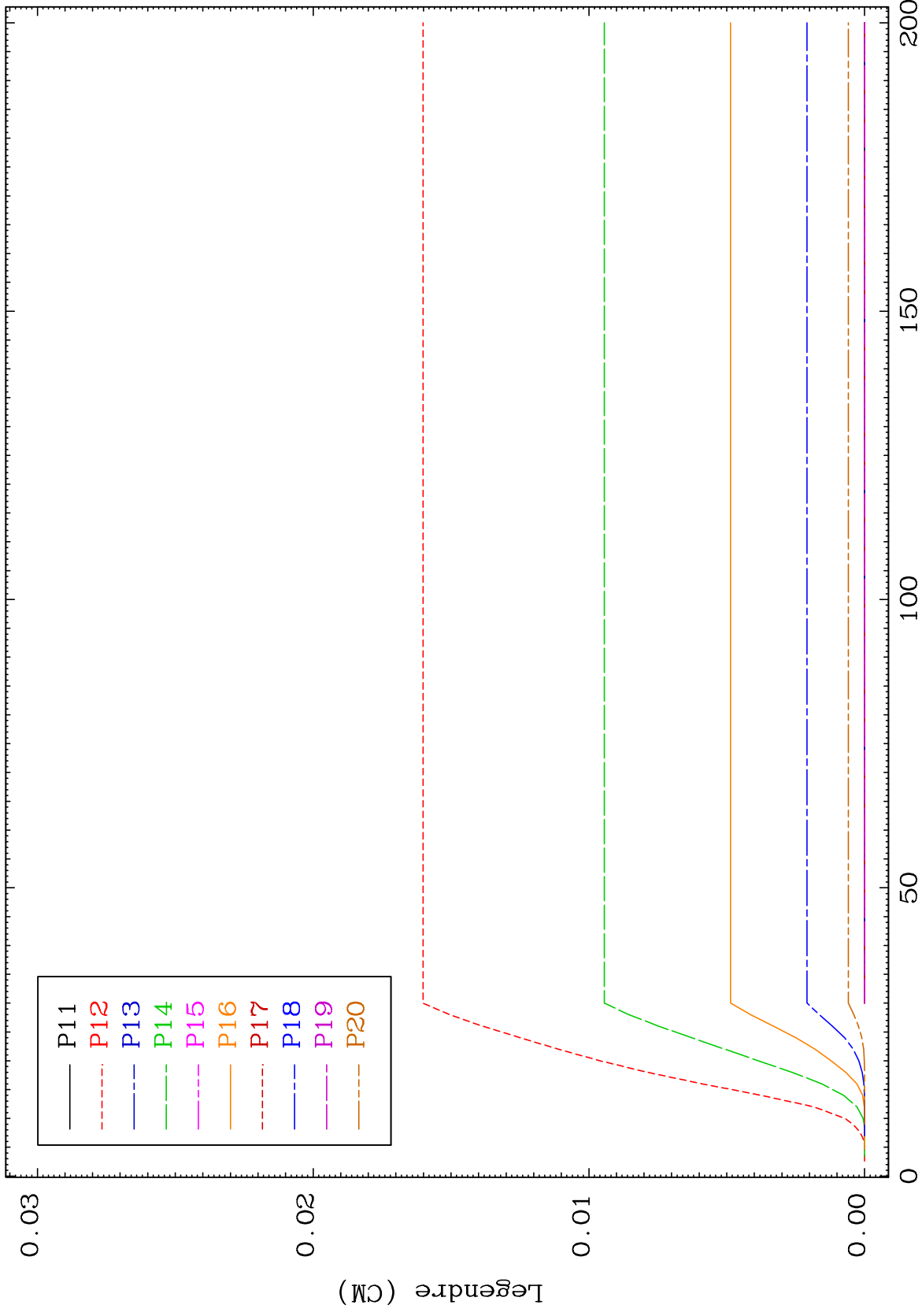
66-Dy-158



MAT 6631

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

66-Dy-158

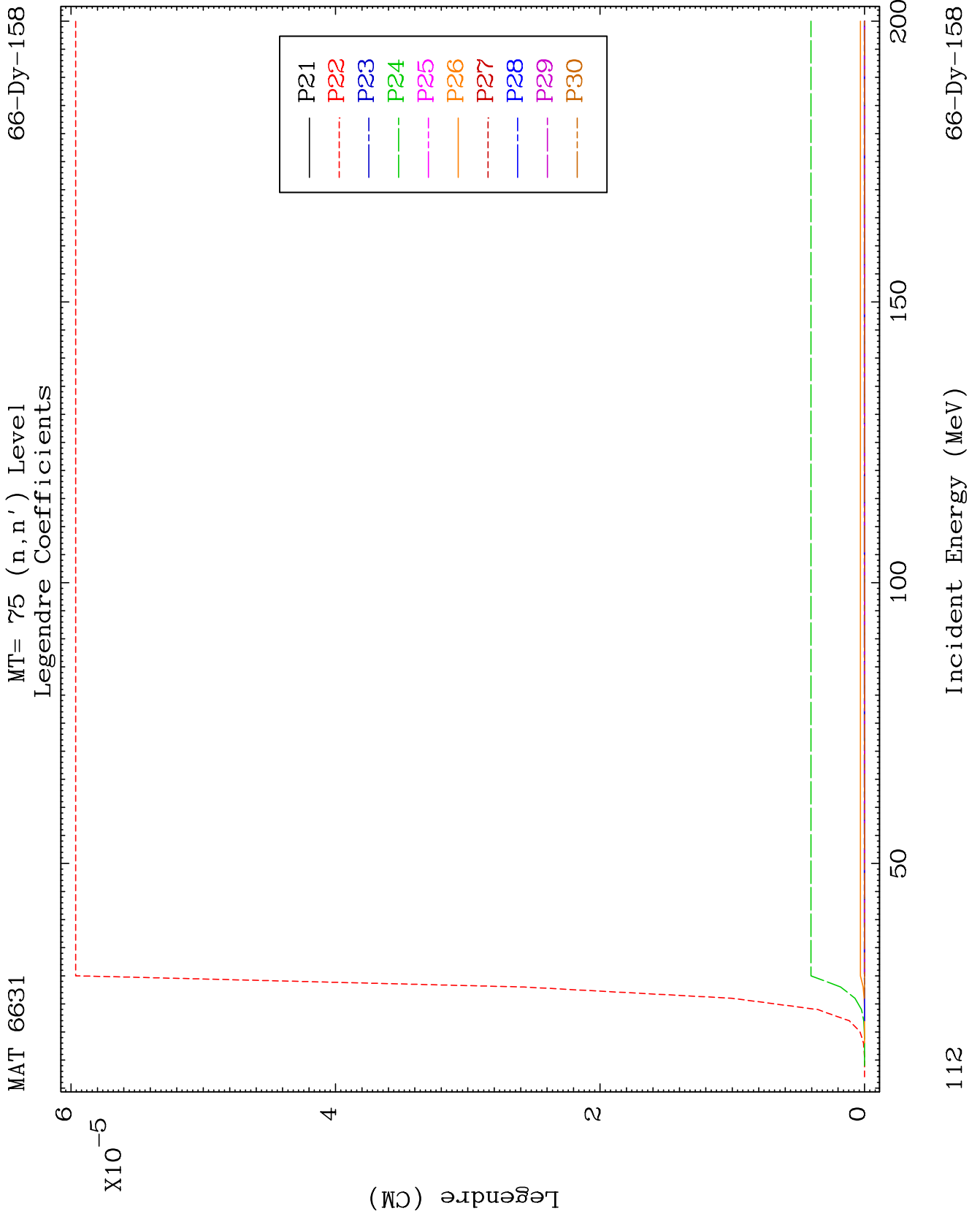


111

Incident Energy (MeV)

66-Dy-158

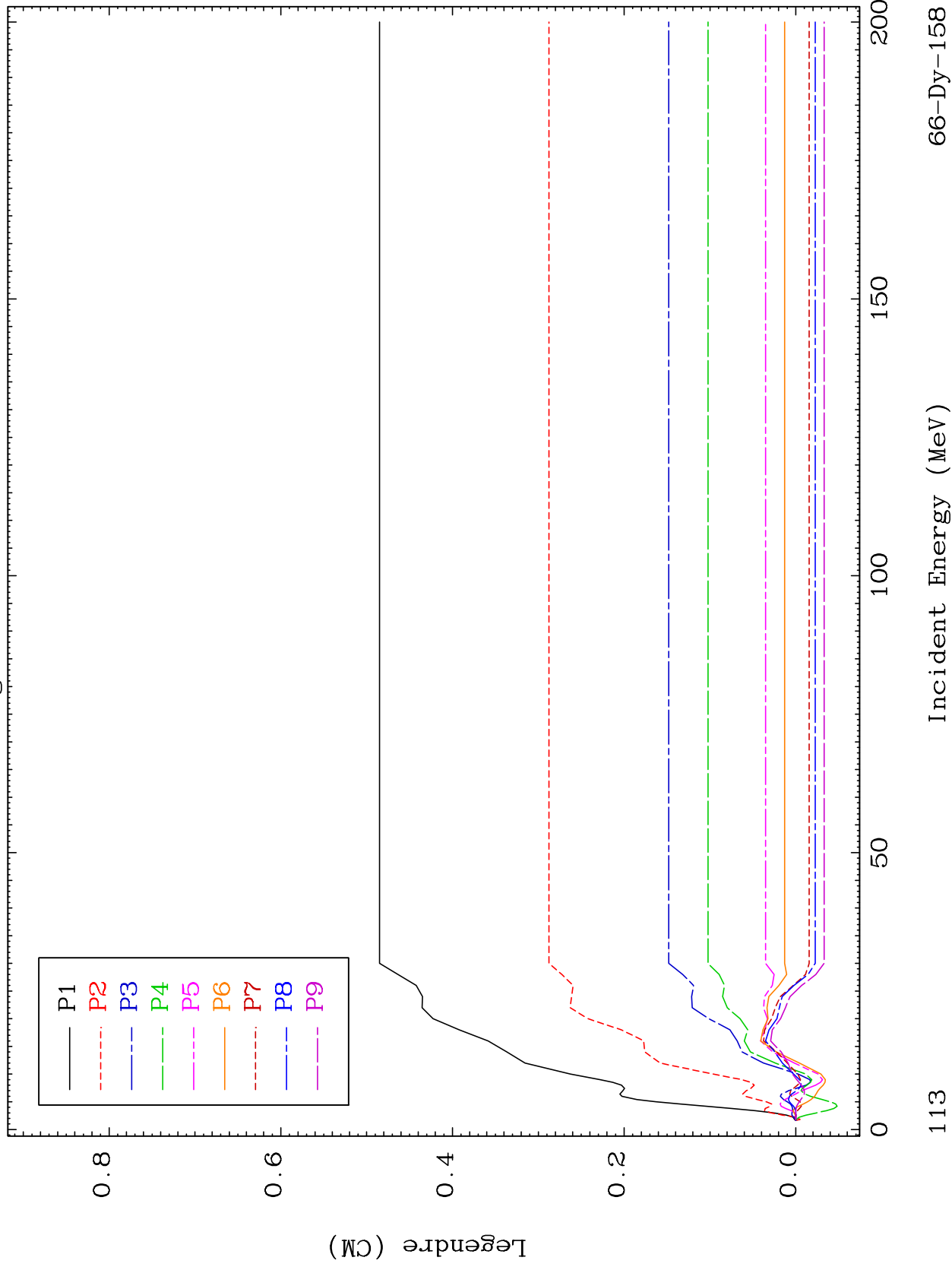




MAT 6631

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

66-Dy-158



66-Dy-158

Incident Energy (MeV)

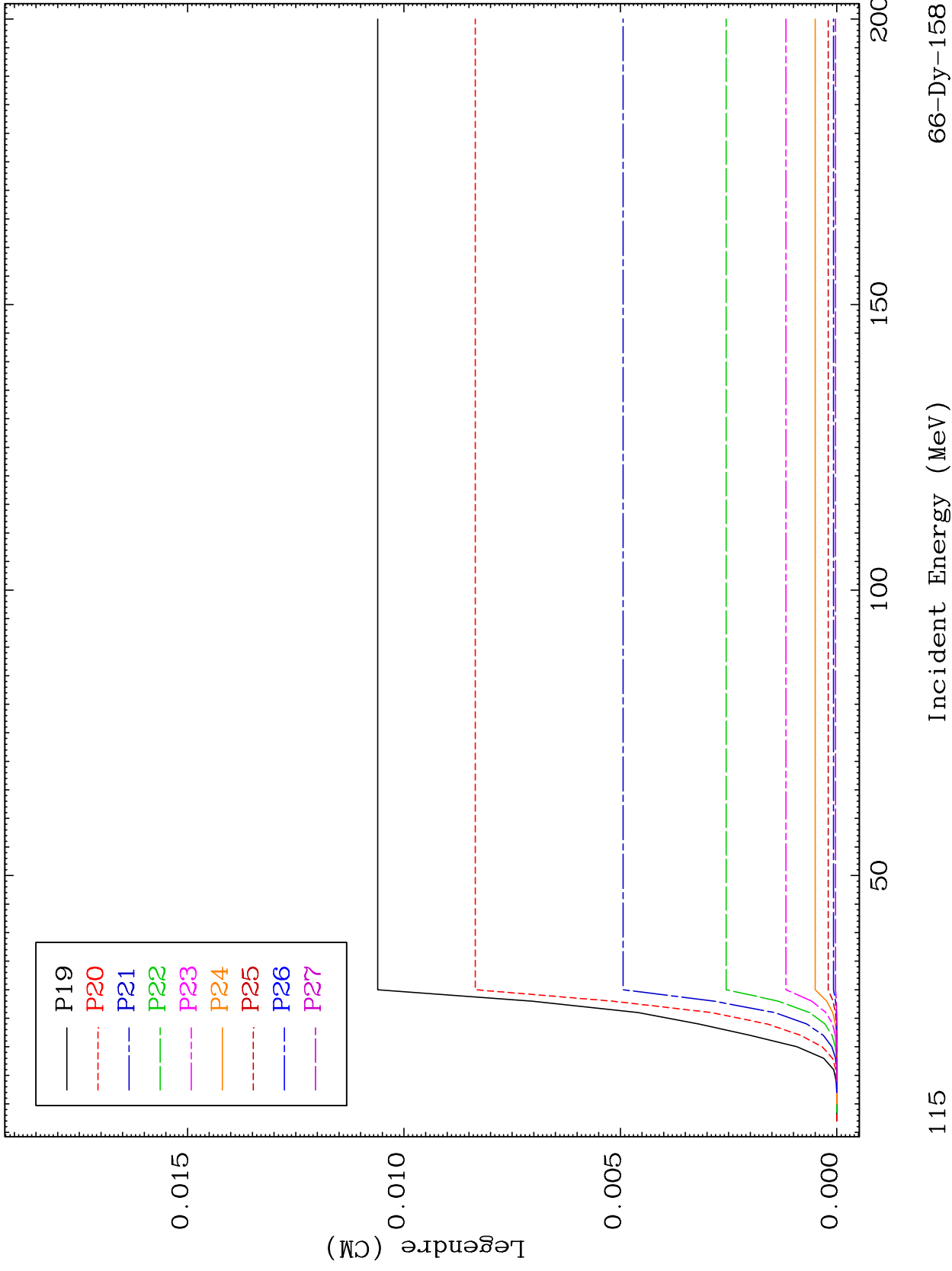
113



MAT 6631

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

66-Dy-158



115

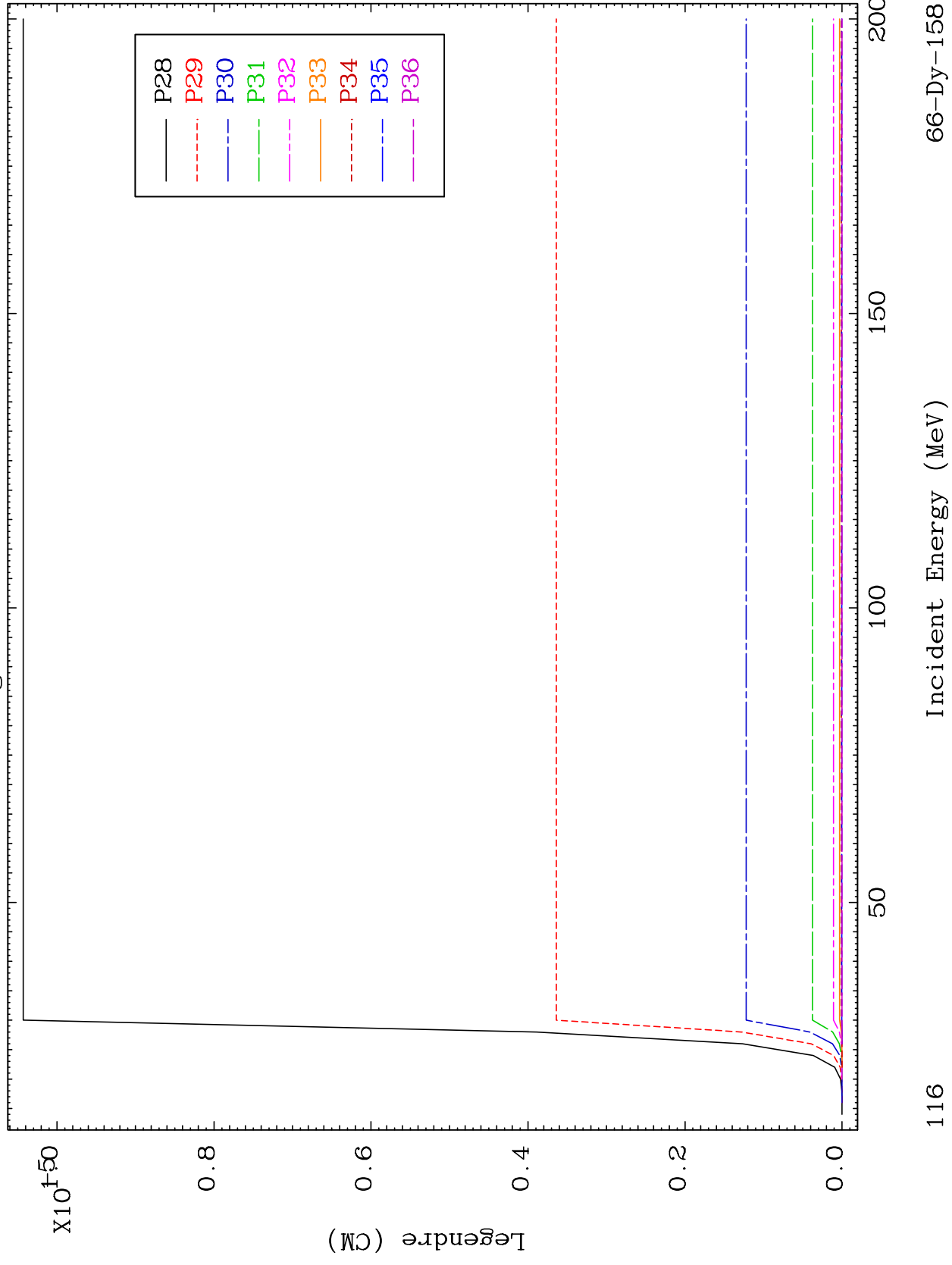
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158



116

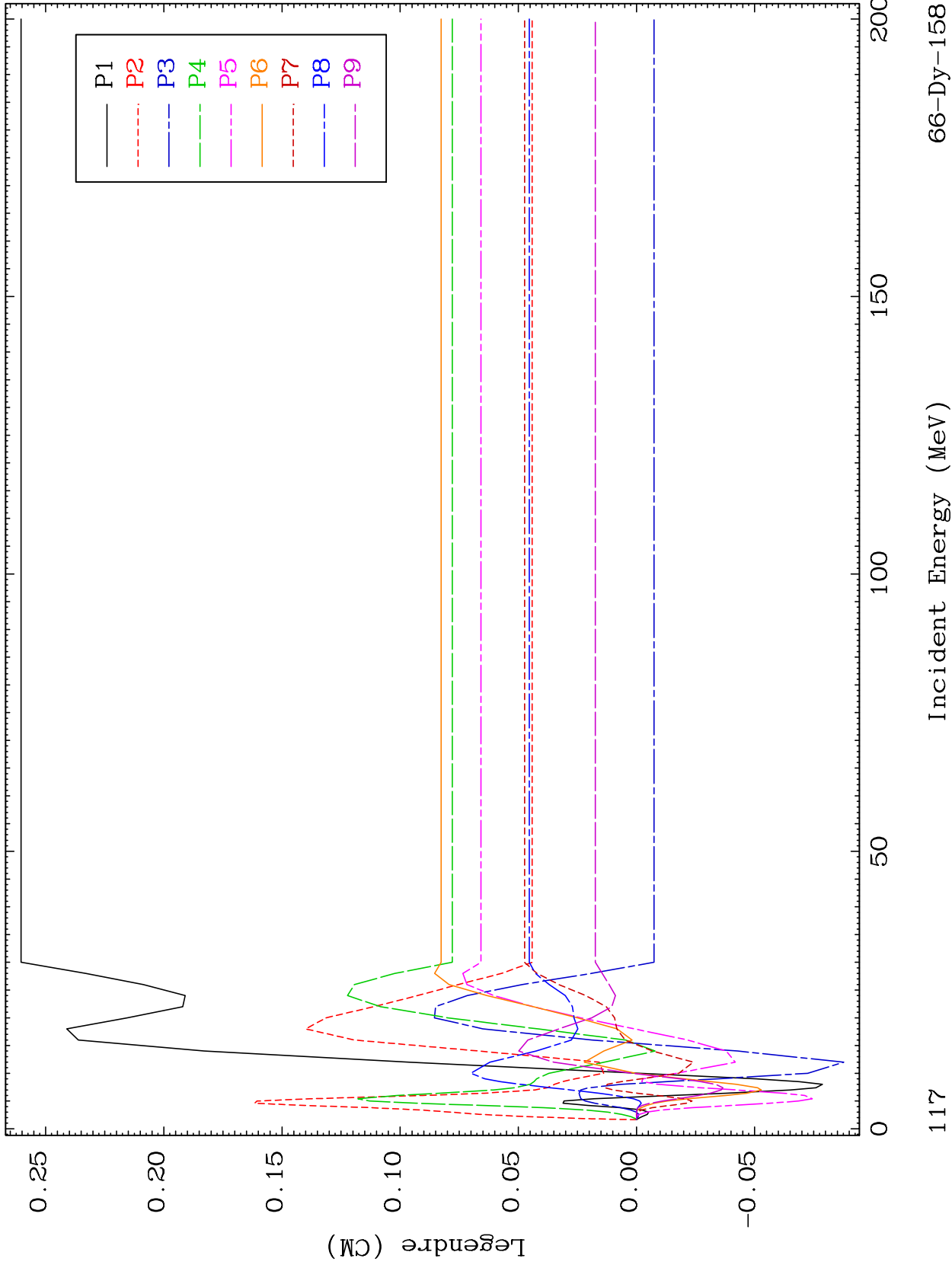
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158

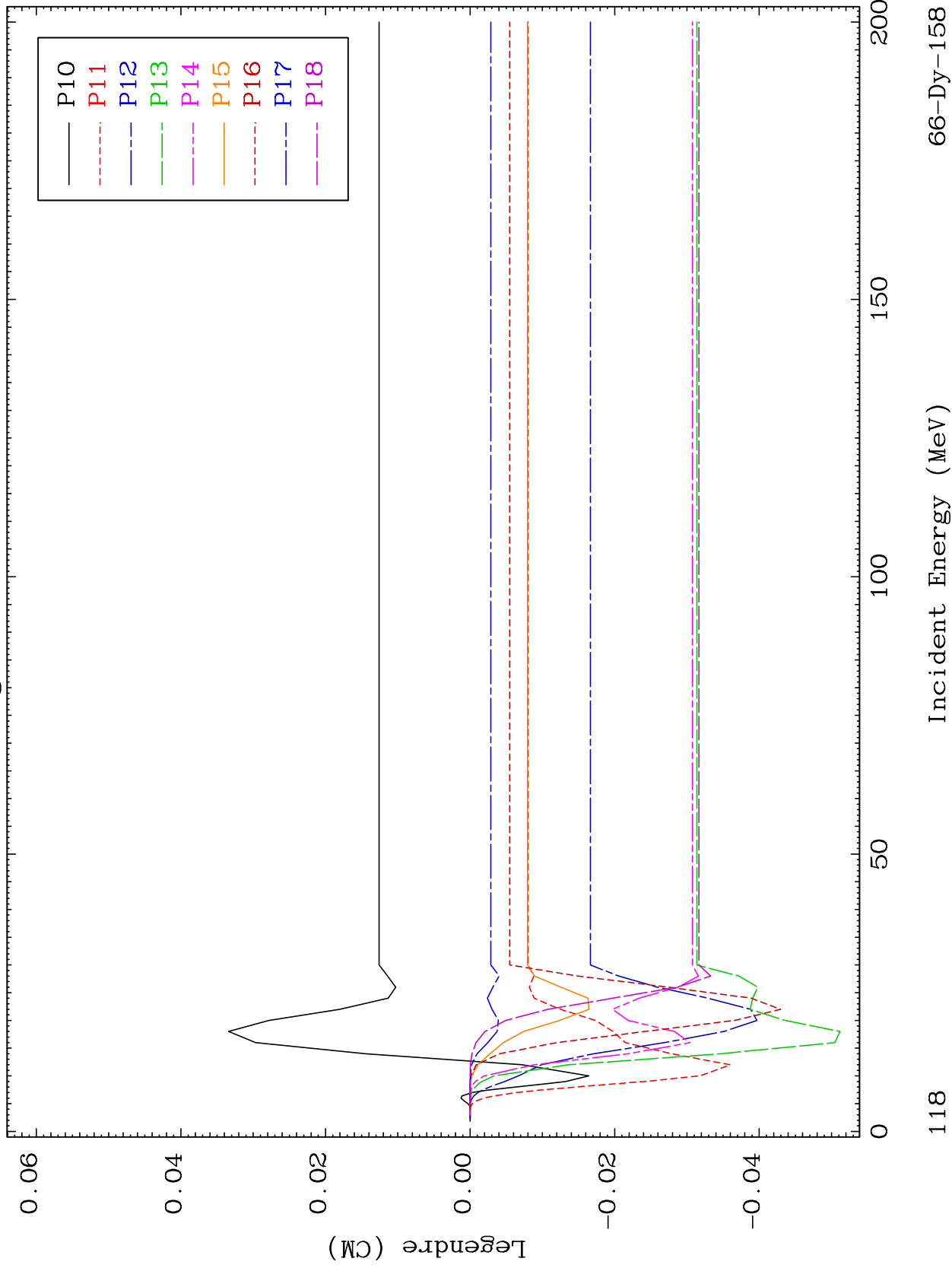


117

MAT 6631

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

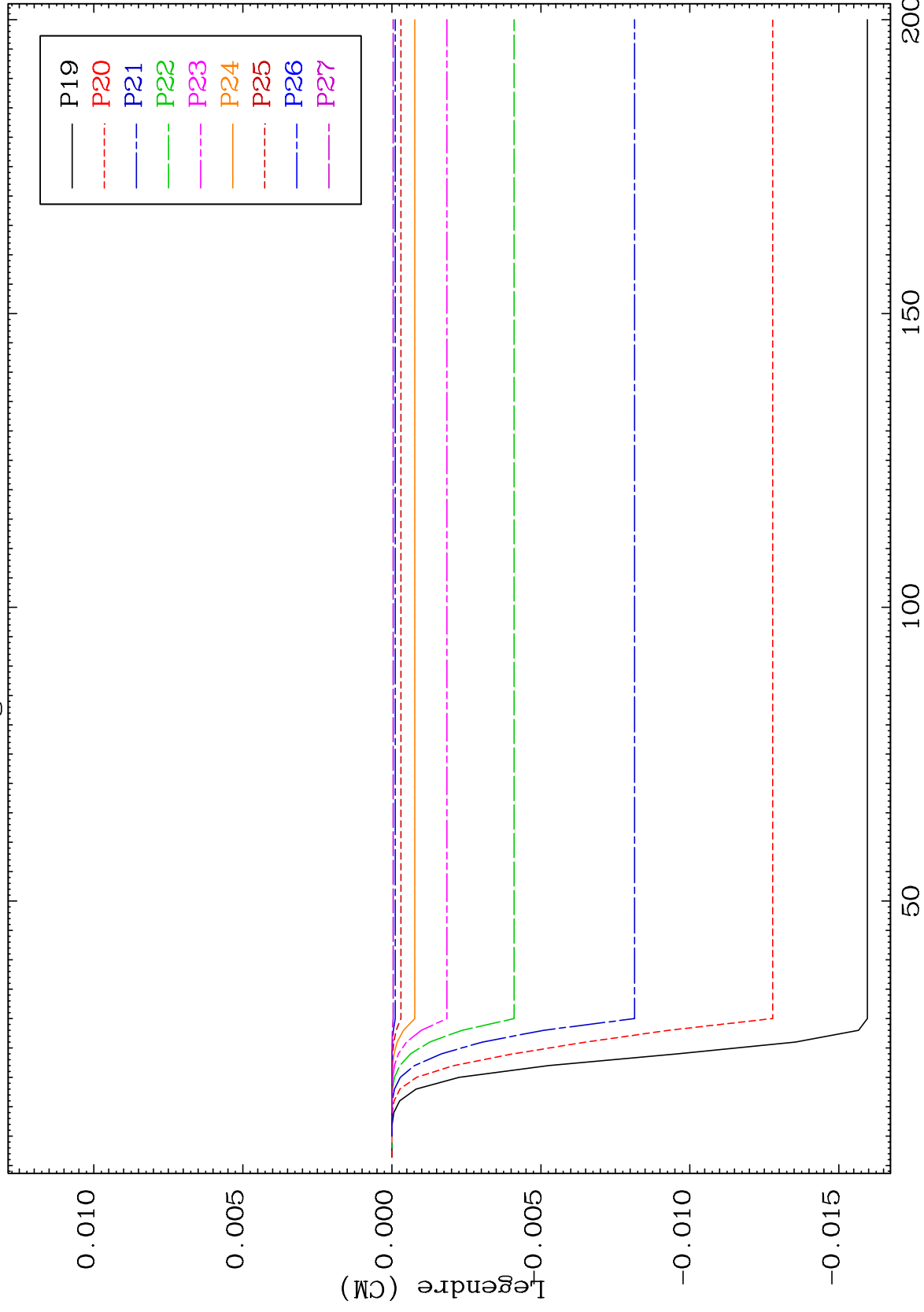
66-Dy-158



MAT 6631

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

66-Dy-158



119

Incident Energy (MeV)

66-Dy-158

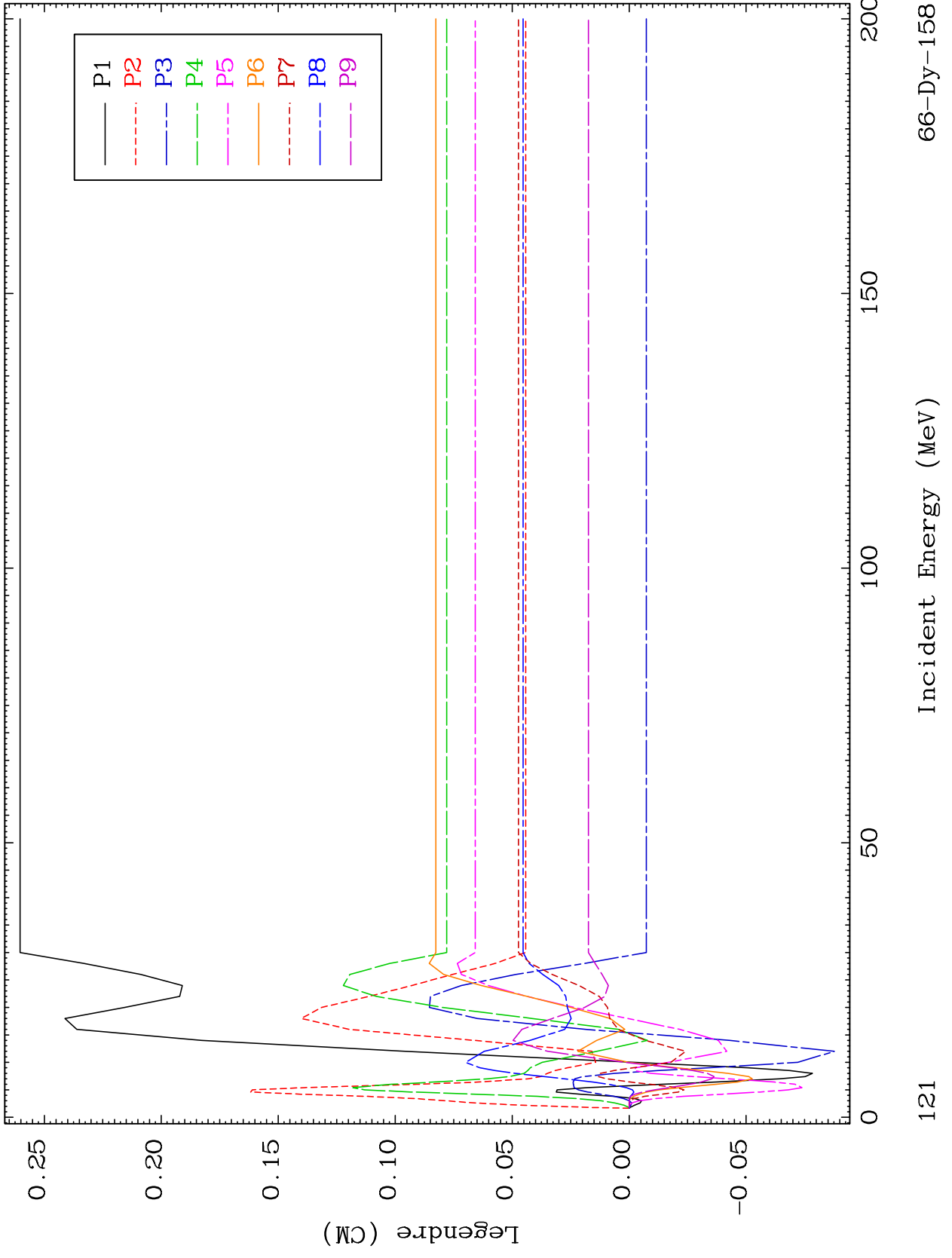




MAT 6631

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

66-Dy-158



66-Dy-158

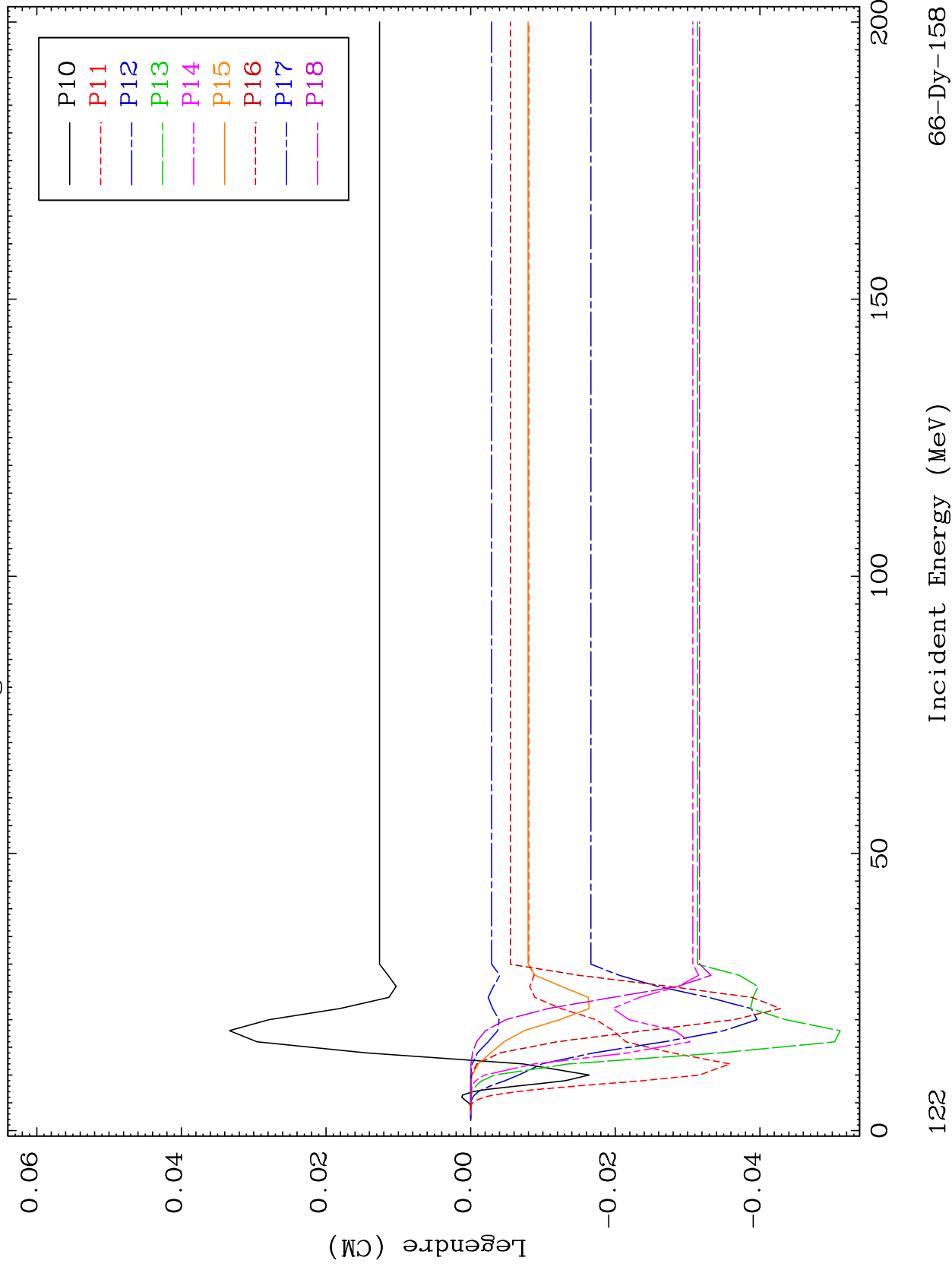
Incident Energy (MeV)

121

MAT 6631

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

66-Dy-158



66-Dy-158

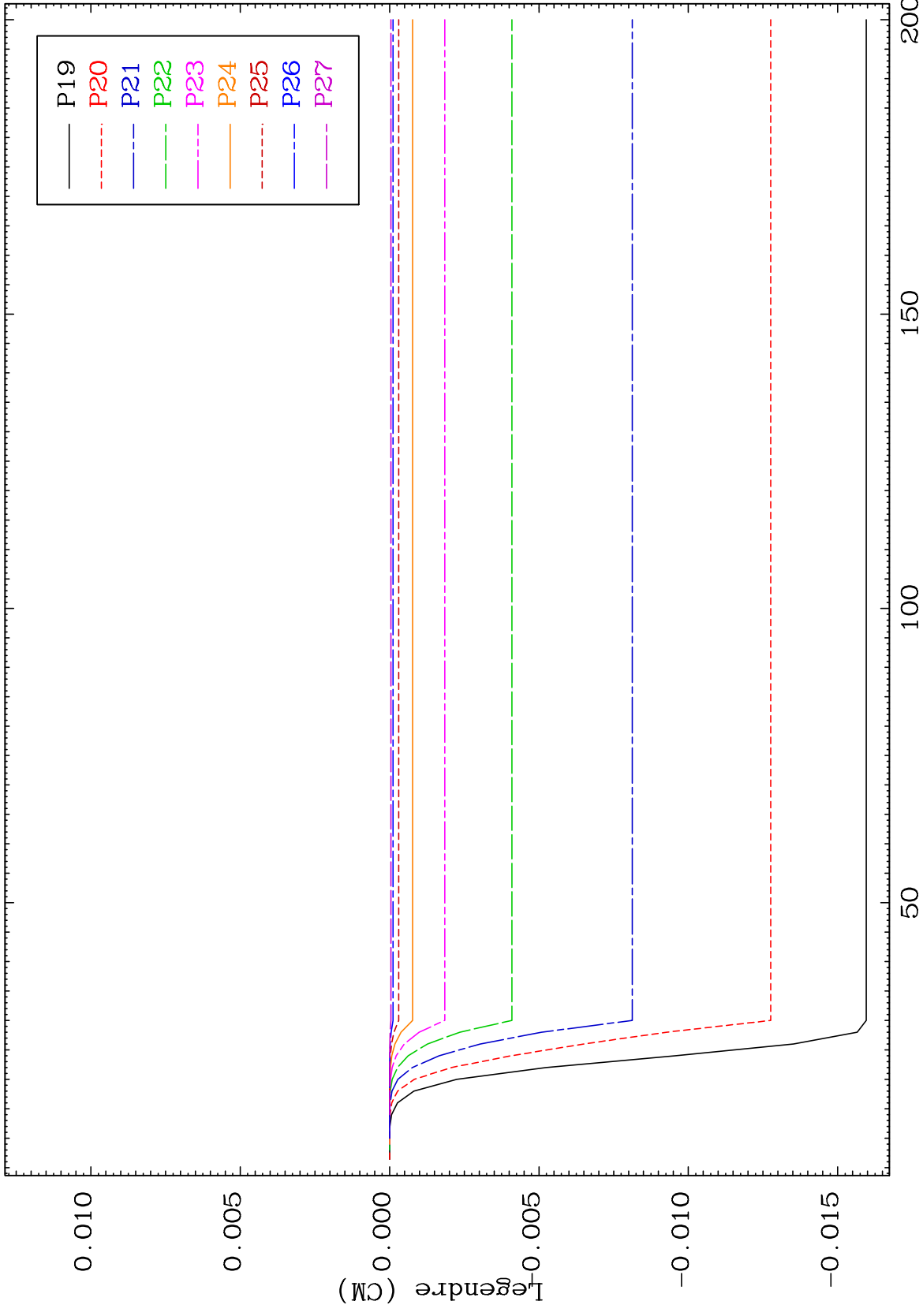
Incident Energy (MeV)

122

MAT 6631

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

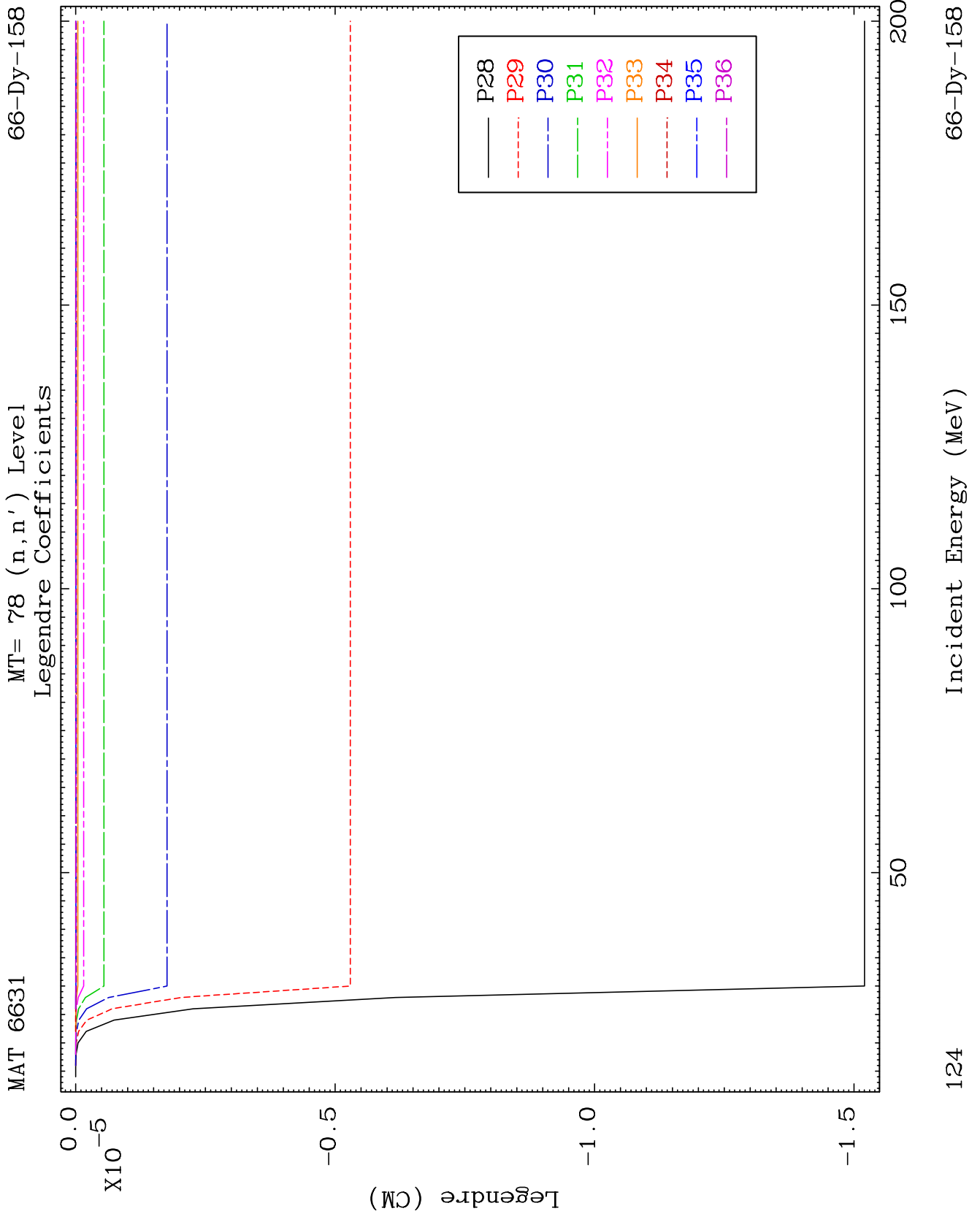
66-Dy-158



123

Incident Energy (MeV)

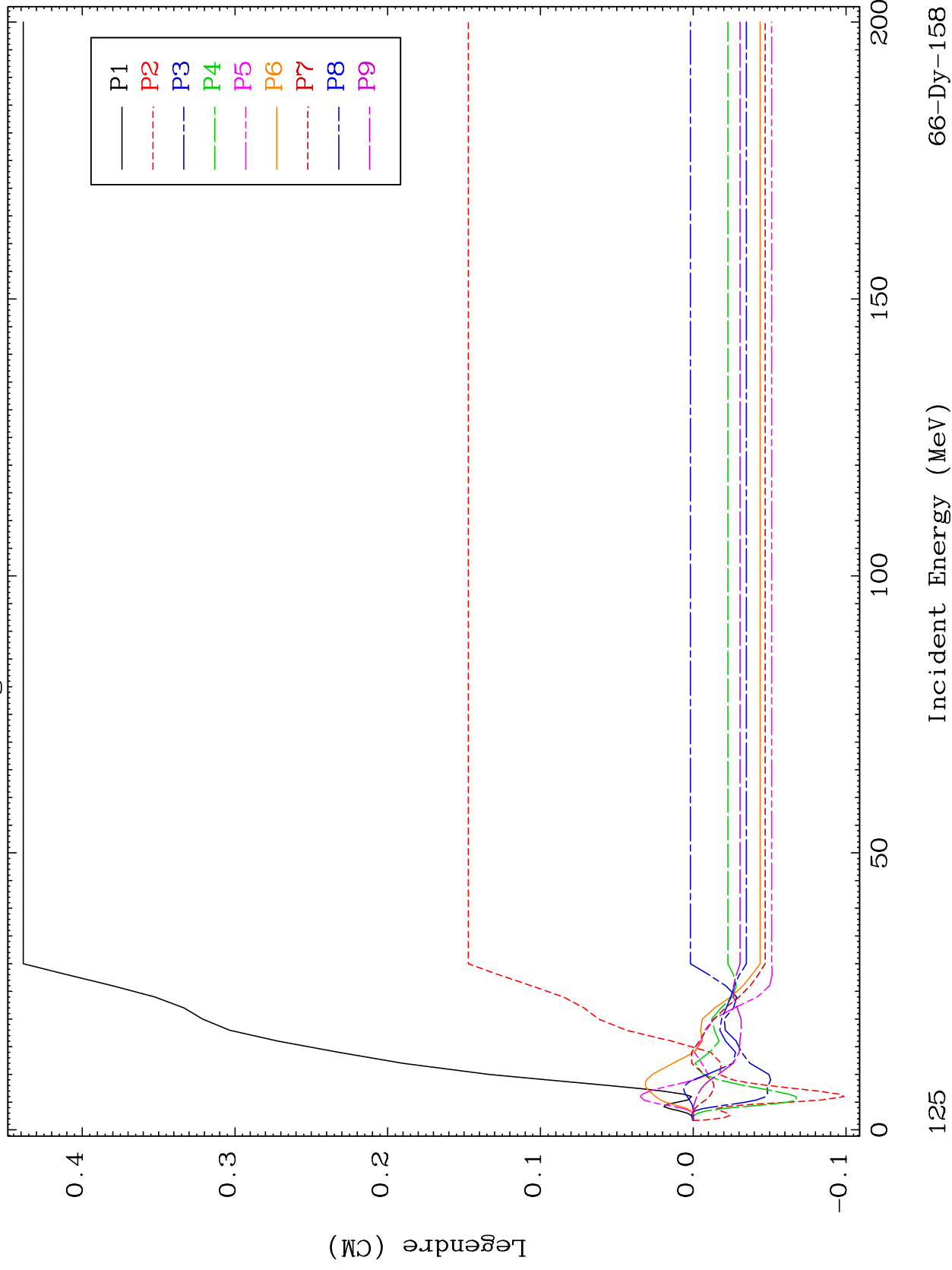
66-Dy-158



MAT 6631

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

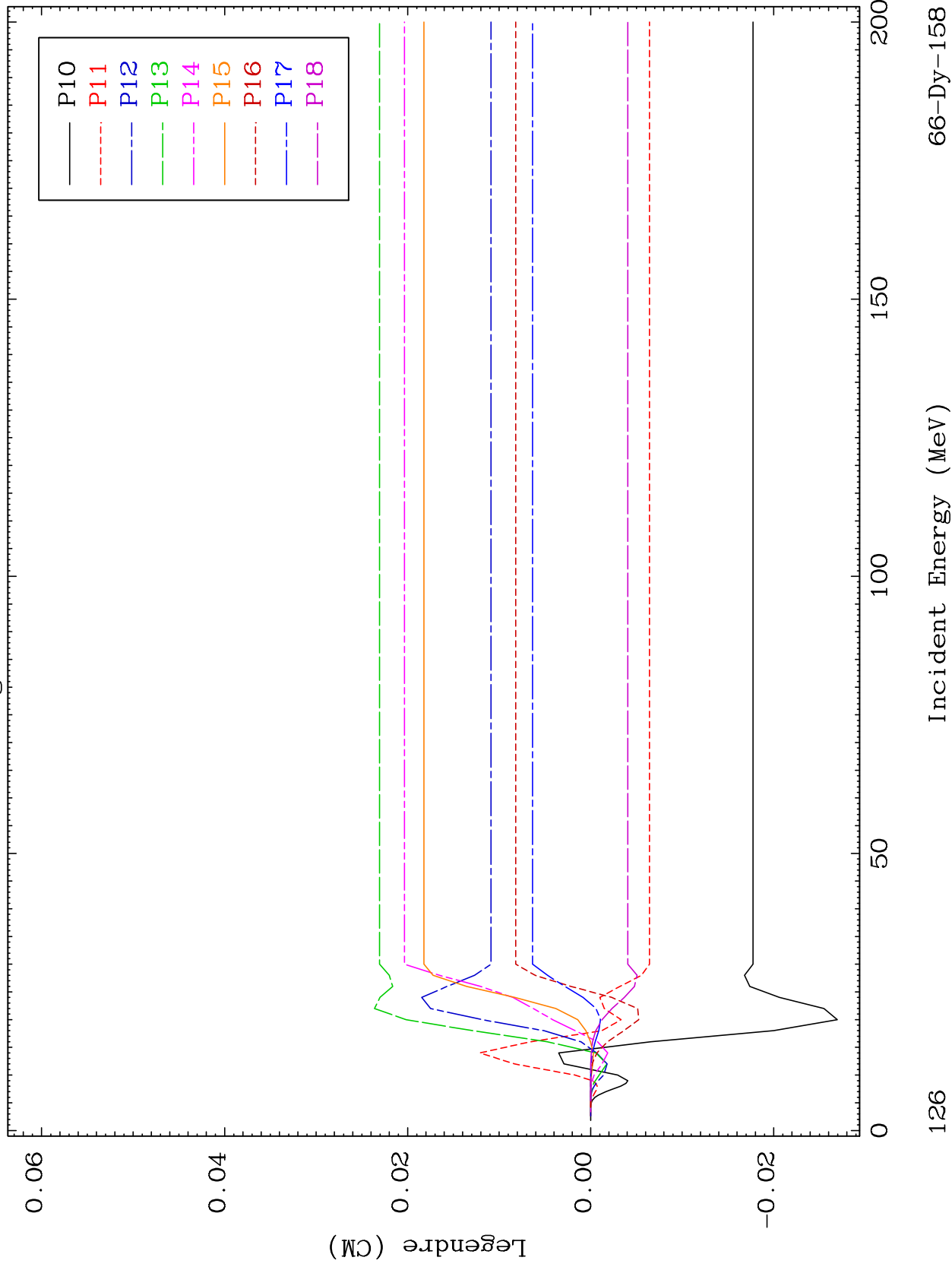
66-Dy-158



MAT 6631

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

66-Dy-158



126

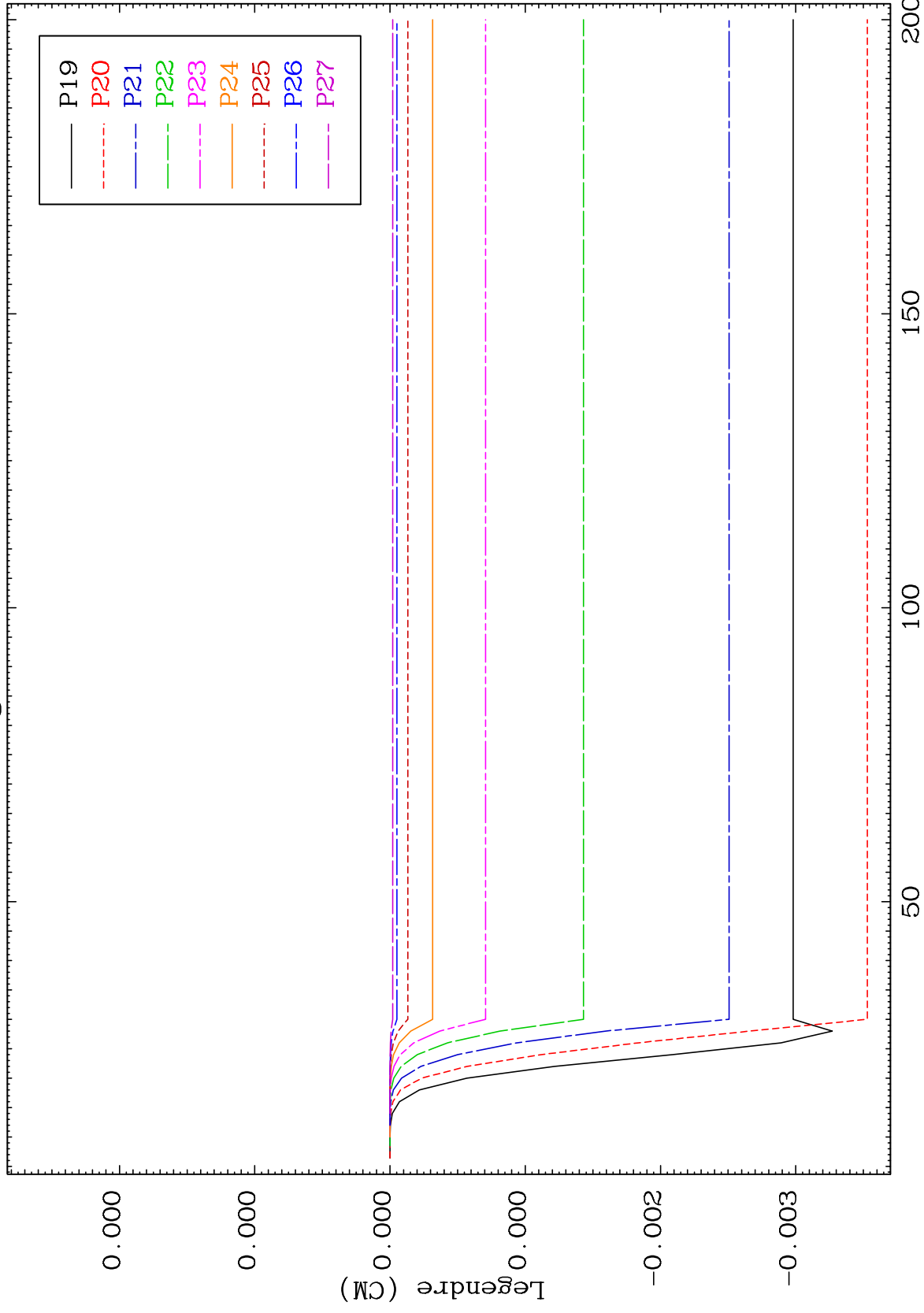
Incident Energy (MeV)

66-Dy-158

MAT 6631

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

66-Dy-158

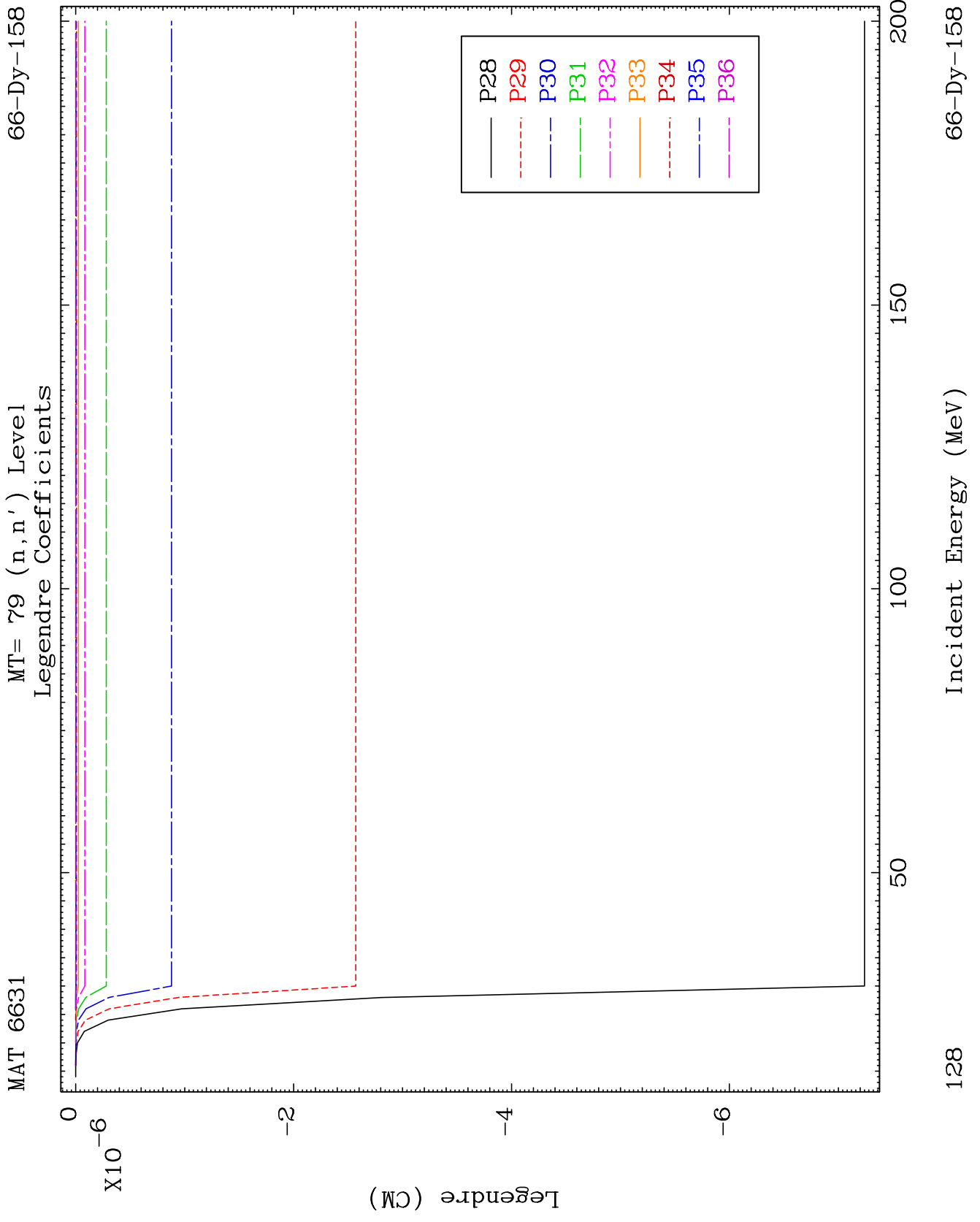


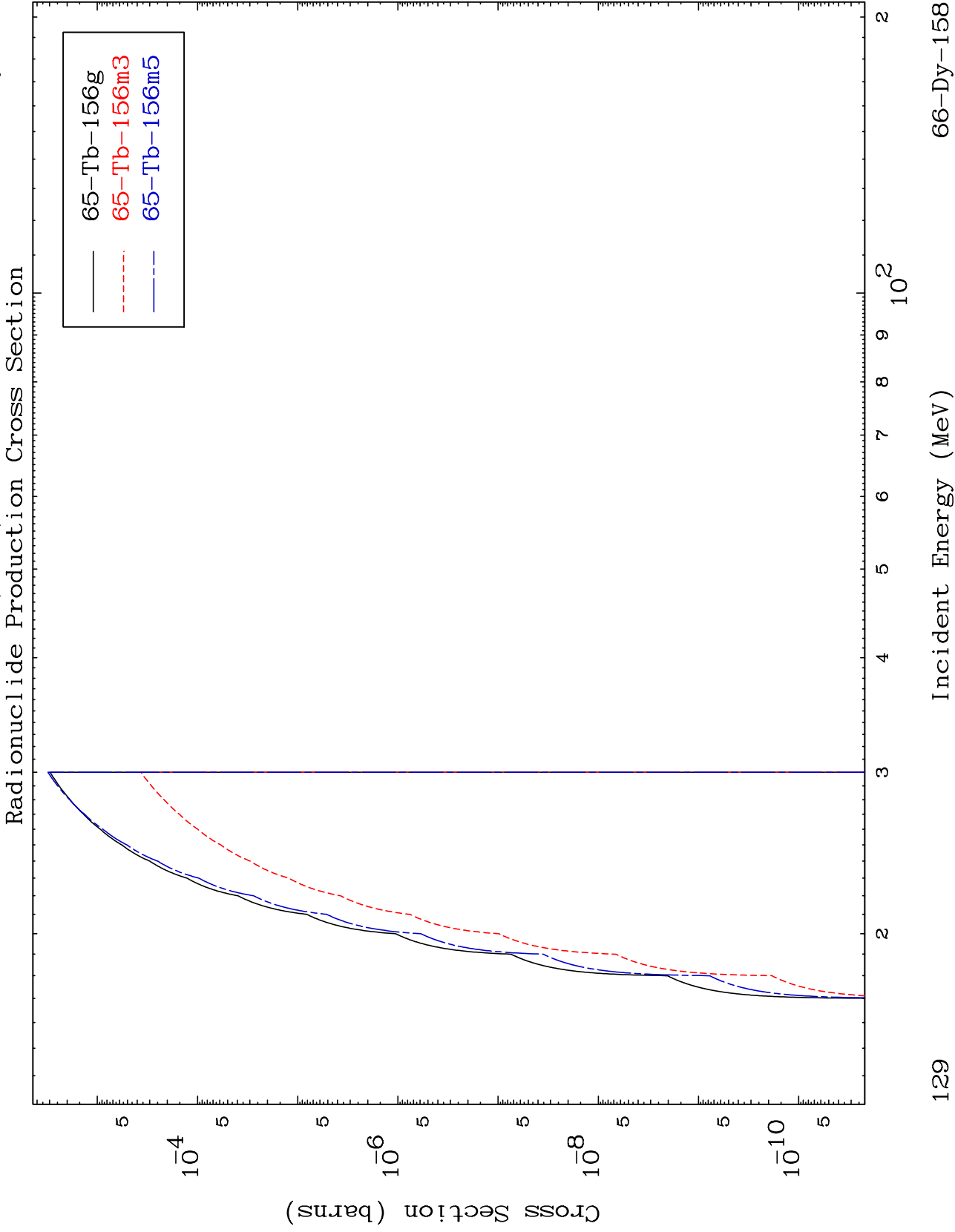
127

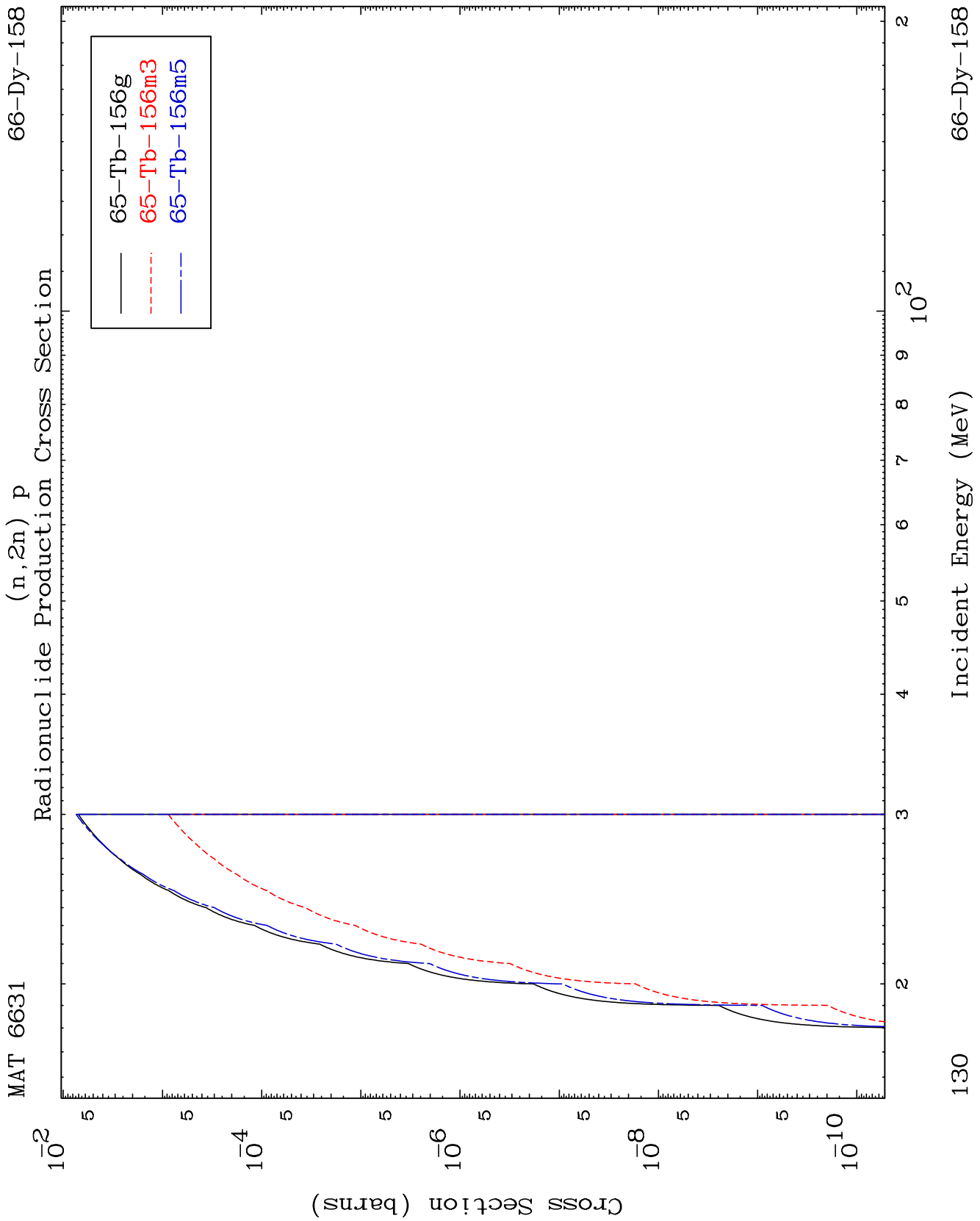
Incident Energy (MeV)

66-Dy-158





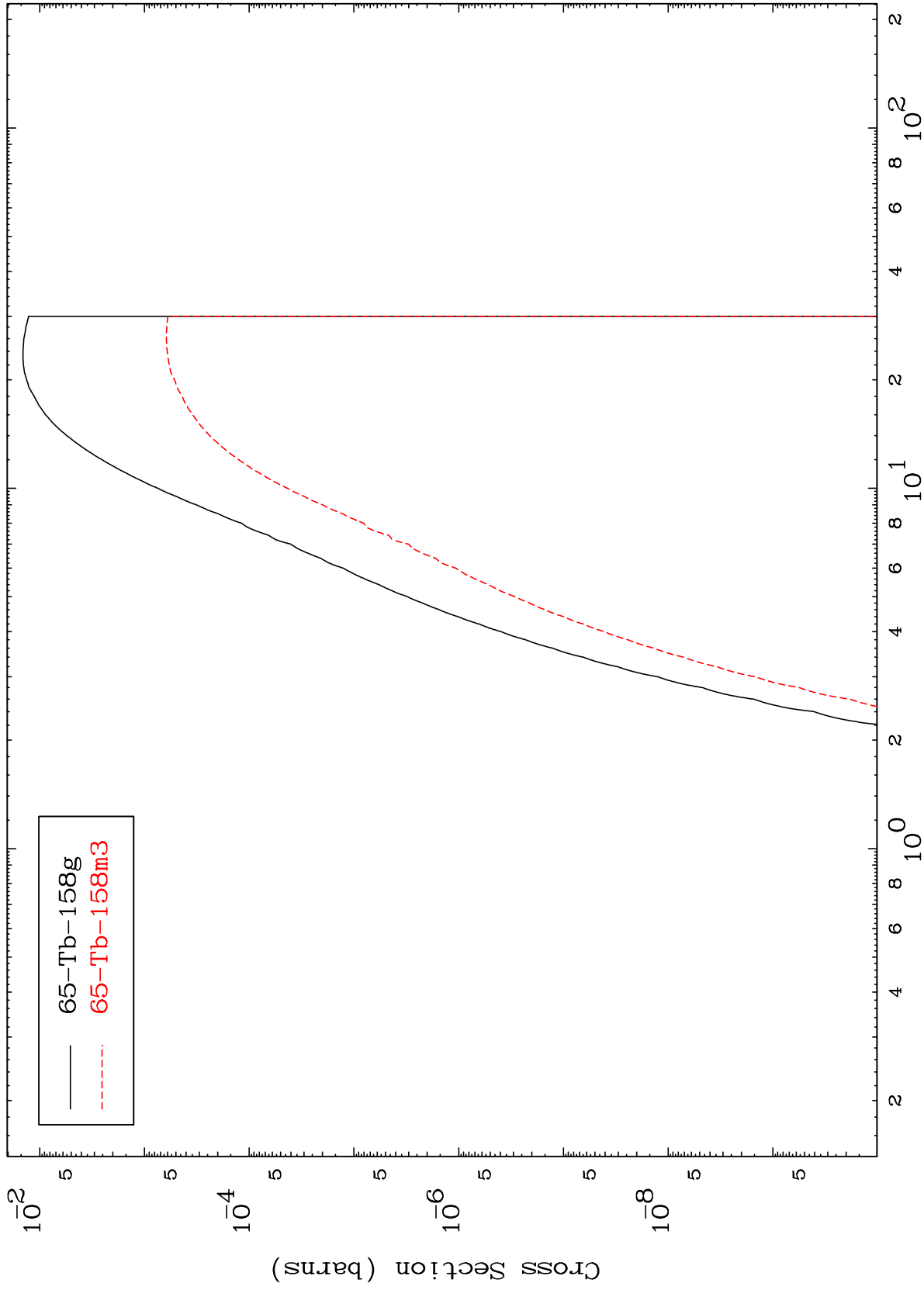




MAT 6631

66-Dy-158

(n,p)  
Radionuclide Production Cross Section



— 65-Tb-158g  
- - - 65-Tb-158m3

131

Incident Energy (MeV)

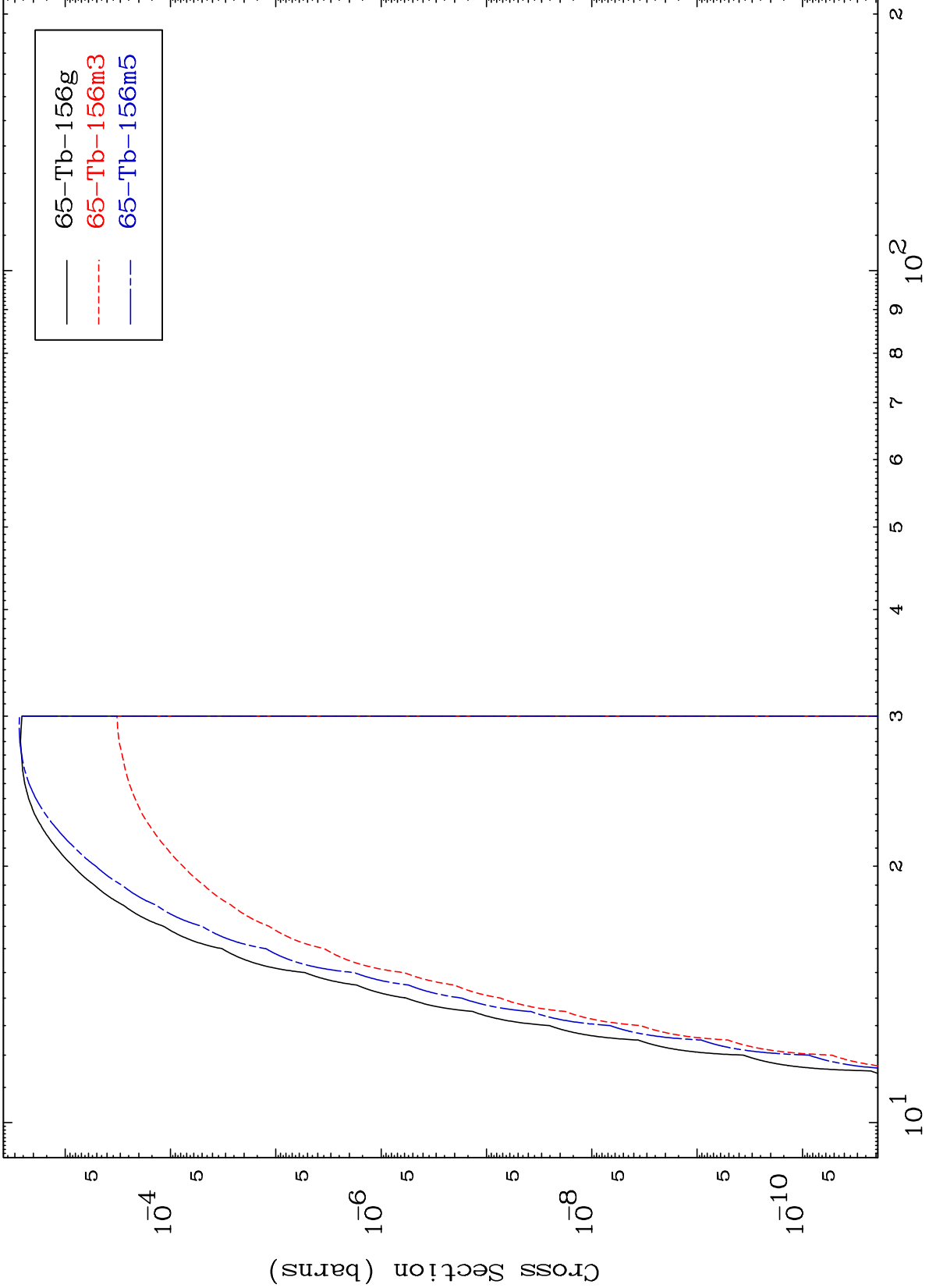
66-Dy-158

MAT 6631

(n,t)

66-Dy-158

Radionuclide Production Cross Section



Incident Energy (MeV)

66-Dy-158

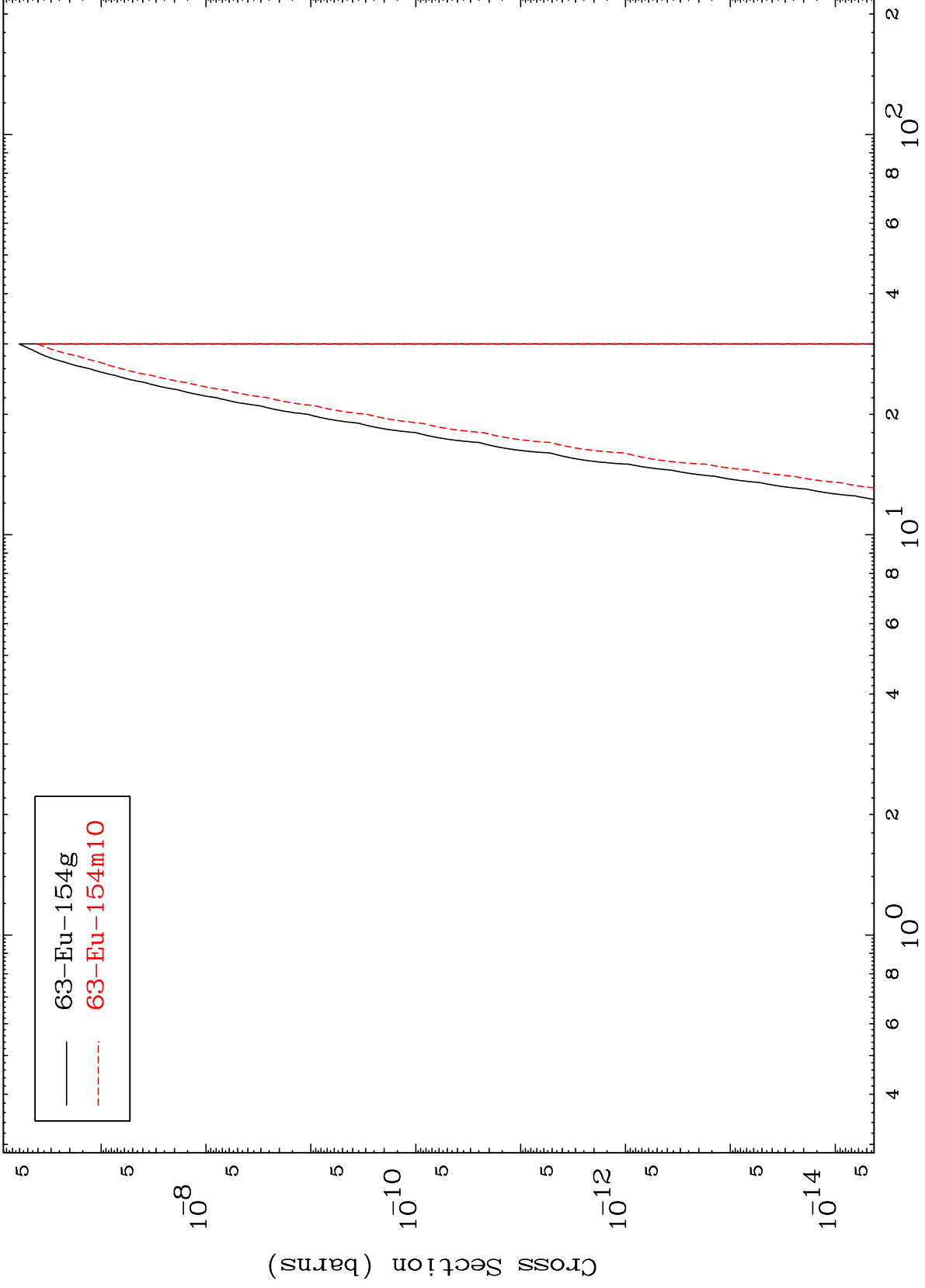
132

MAT 6631

(n,p)  $\alpha$

66-Dy-158

Radionuclide Production Cross Section



63-Eu-154g  
63-Eu-154m10