

Program EVALPLOT  
(Version 2017-1)

by

Dermott E. Cullen  
(Present Contact Information)

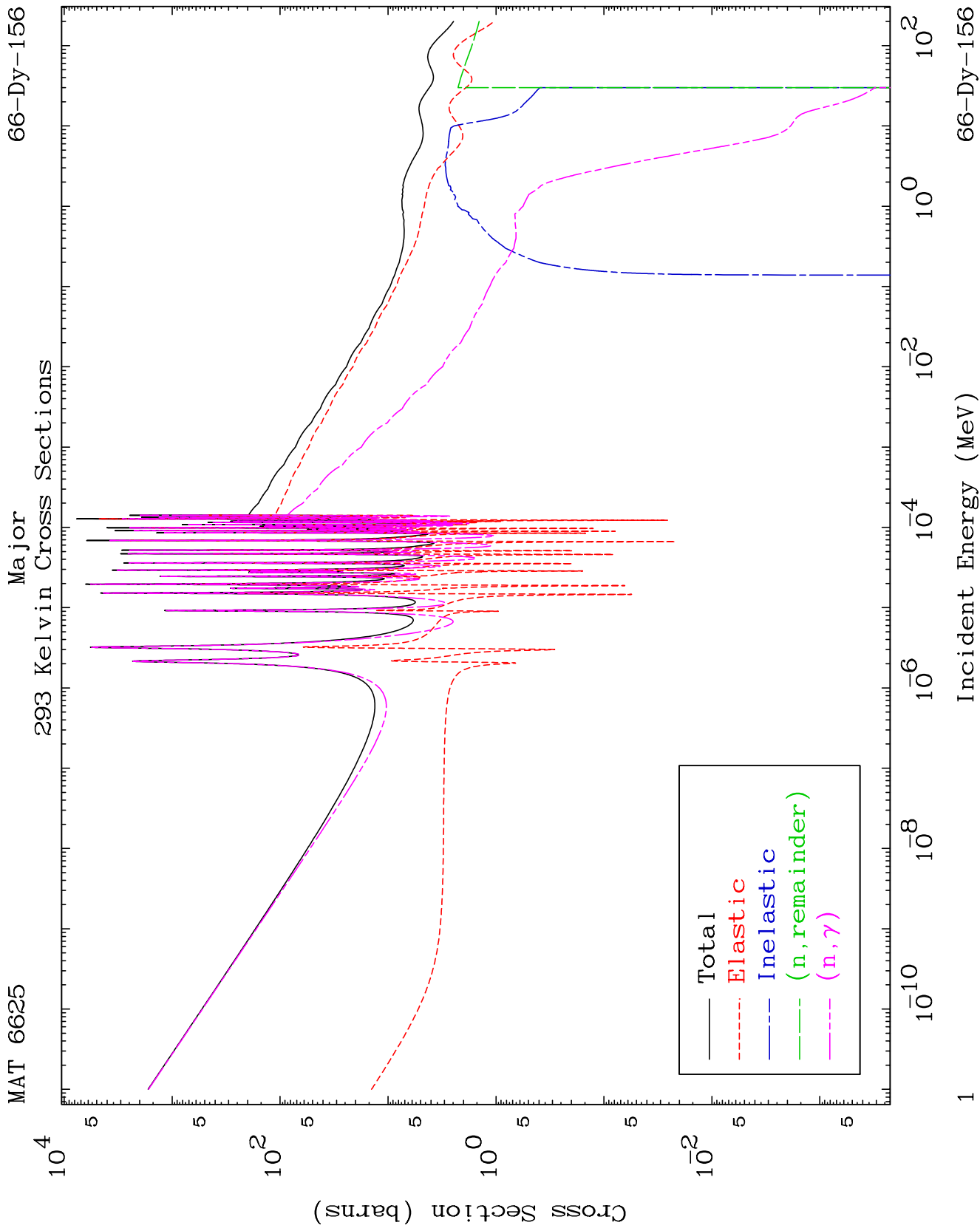
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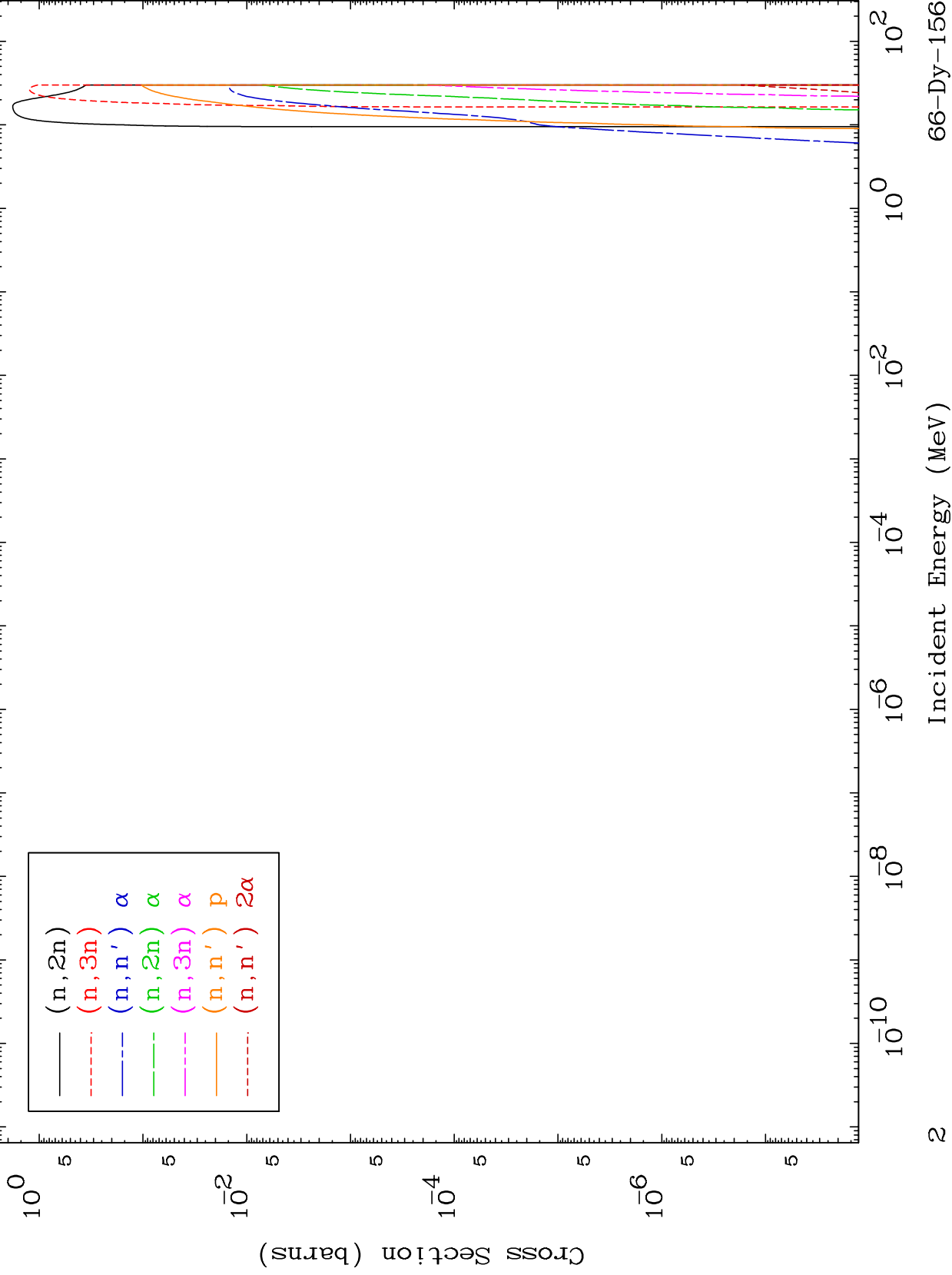
Press Mouse Button to Start

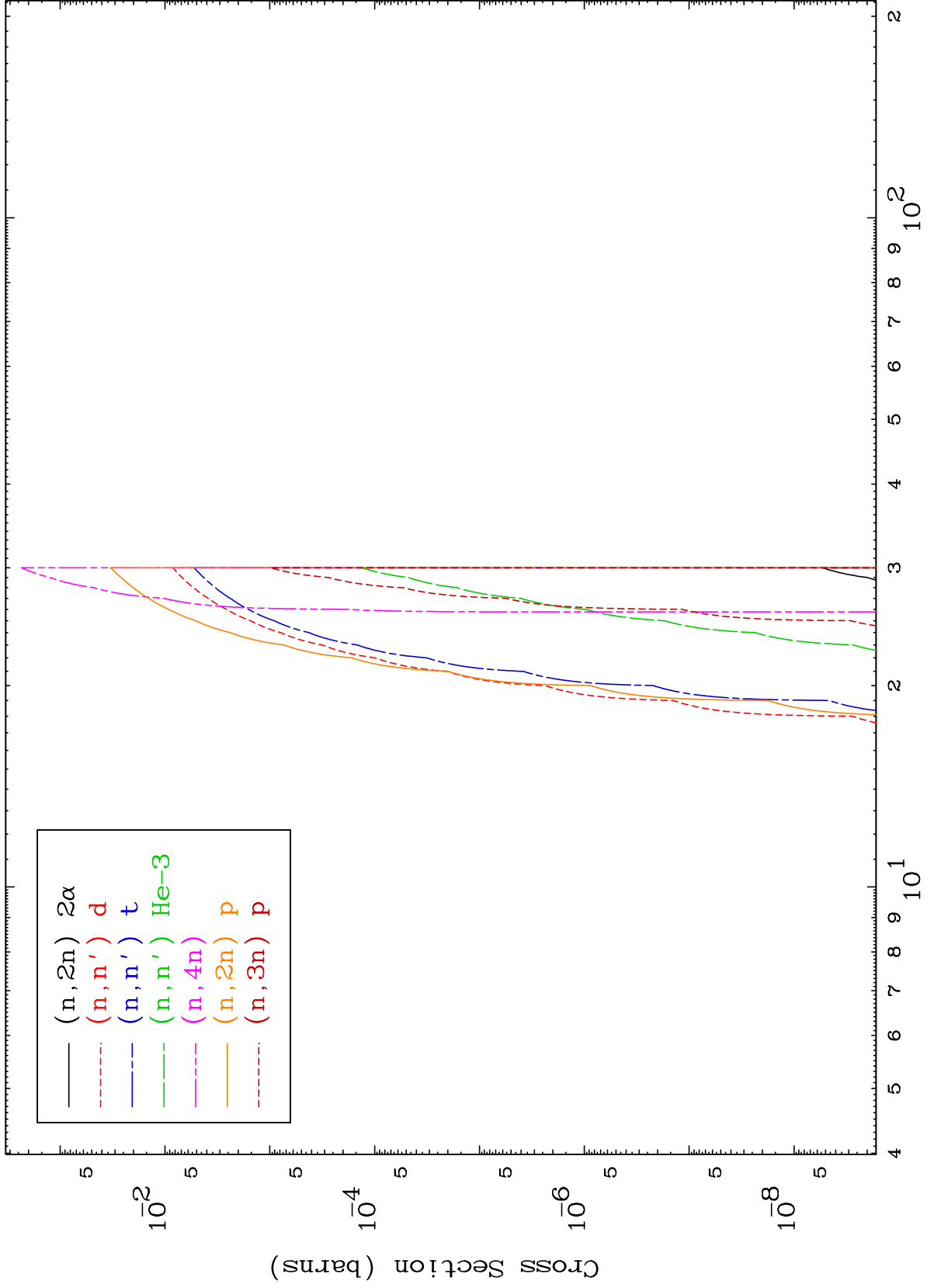


MAT 6625

Neutron Production  
293 Kelvin Cross Sections

66-Dy-156

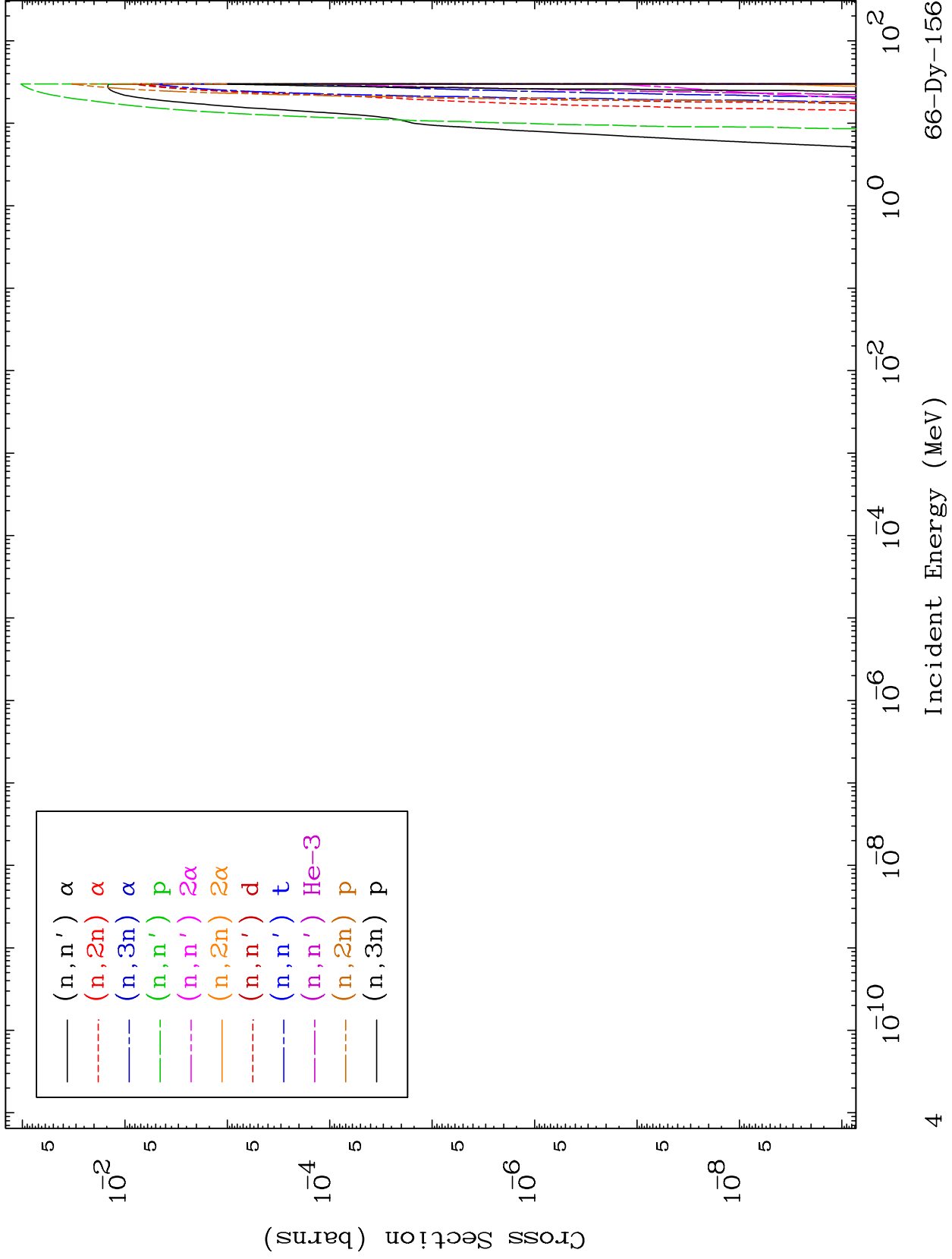




MAT 6625

Charged Particle  
293 Kelvin Cross Sections

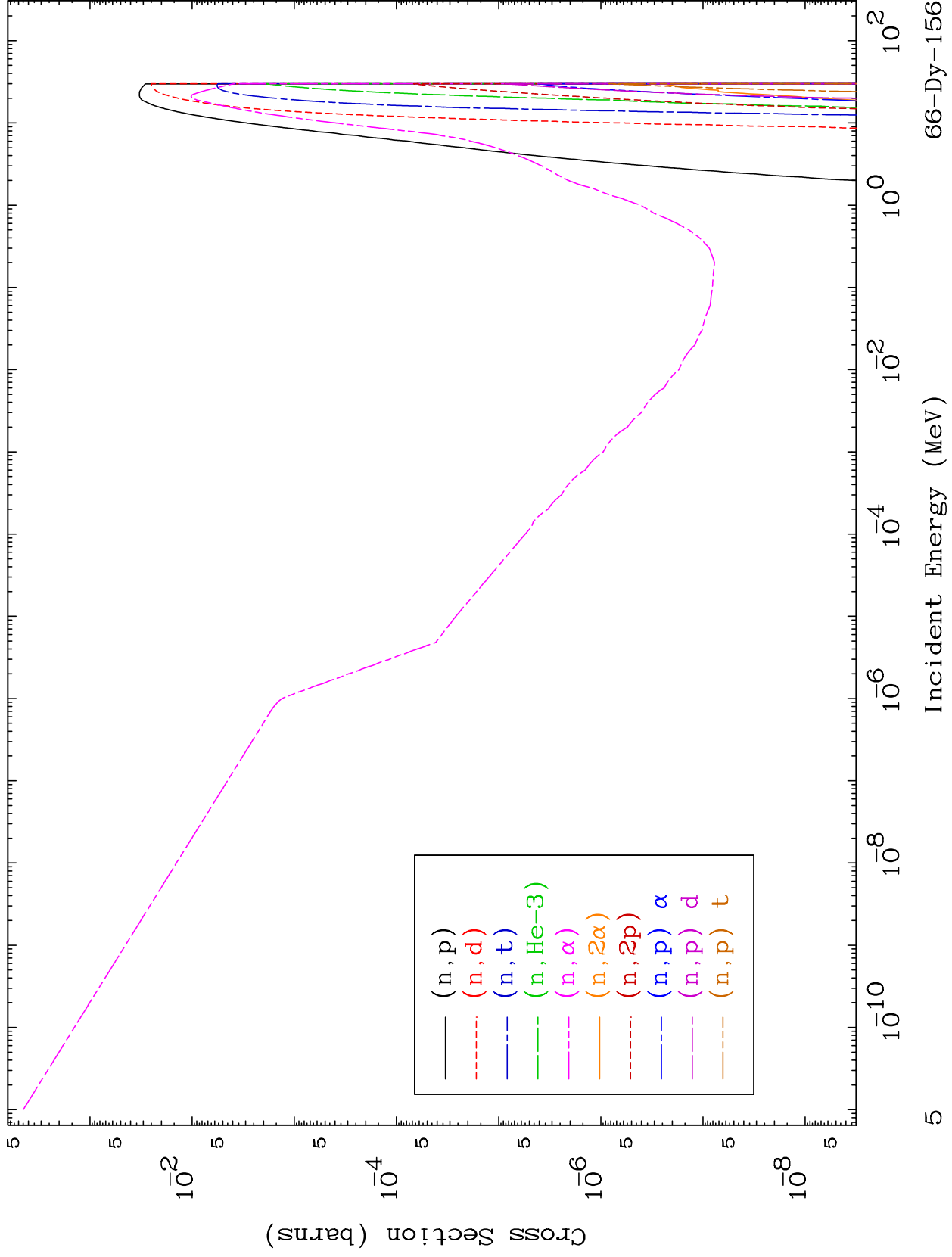
66-Dy-156



MAT 6625

Charged Particle  
293 Kelvin Cross Sections

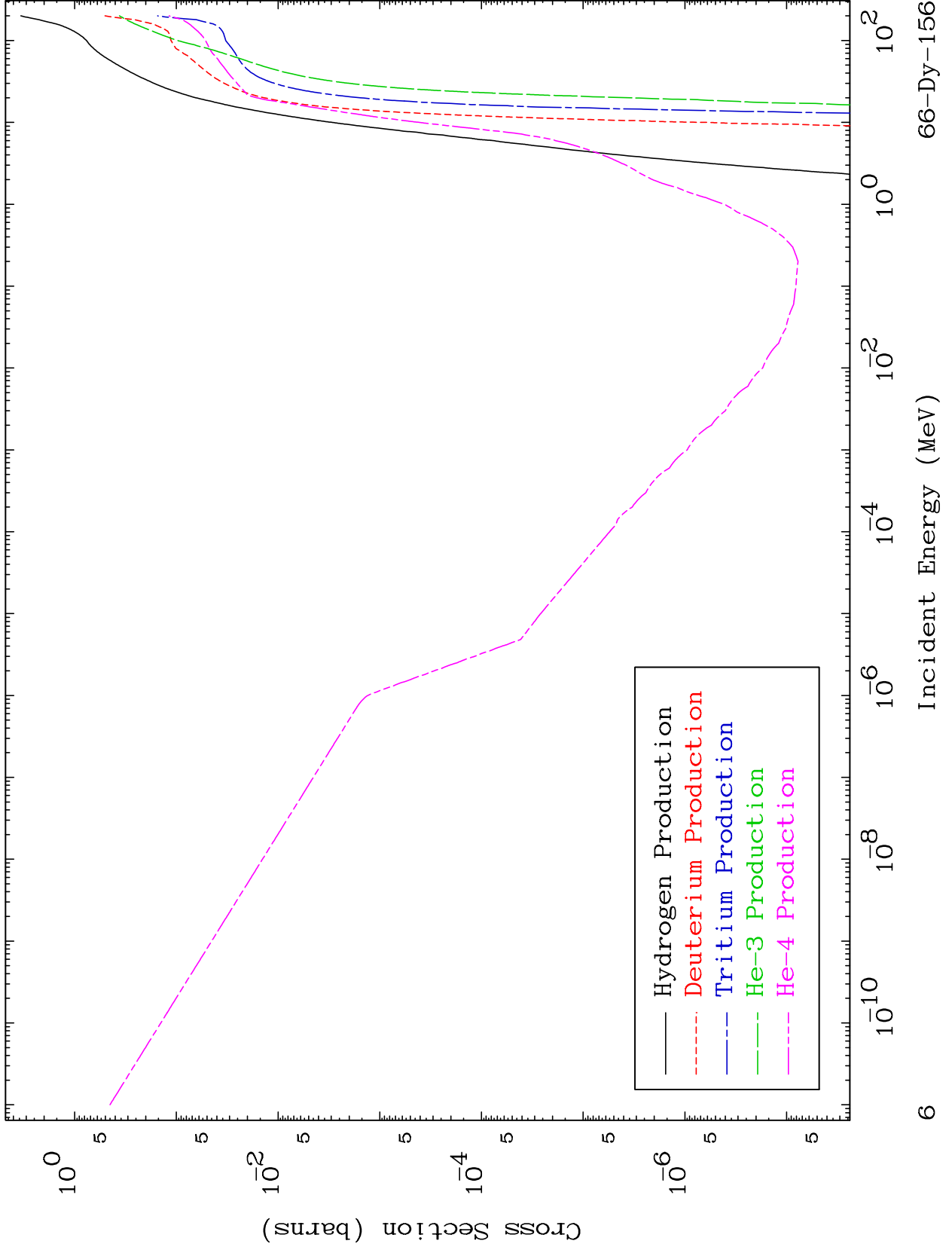
66-Dy-156



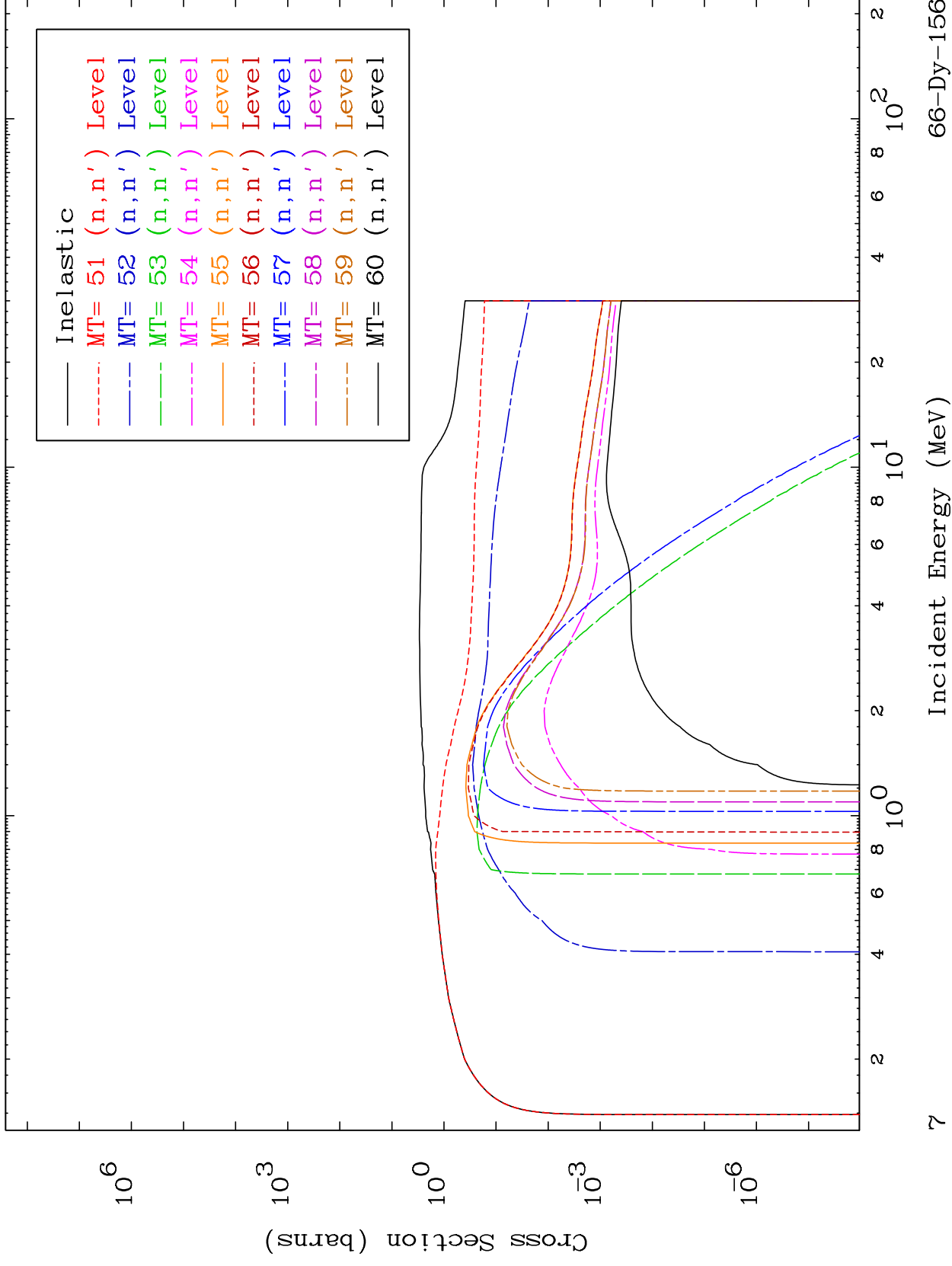
MAT 6625

Particle Production  
293 Kelvin Cross Sections

66-Dy-156



293 Kelvin Cross Sections



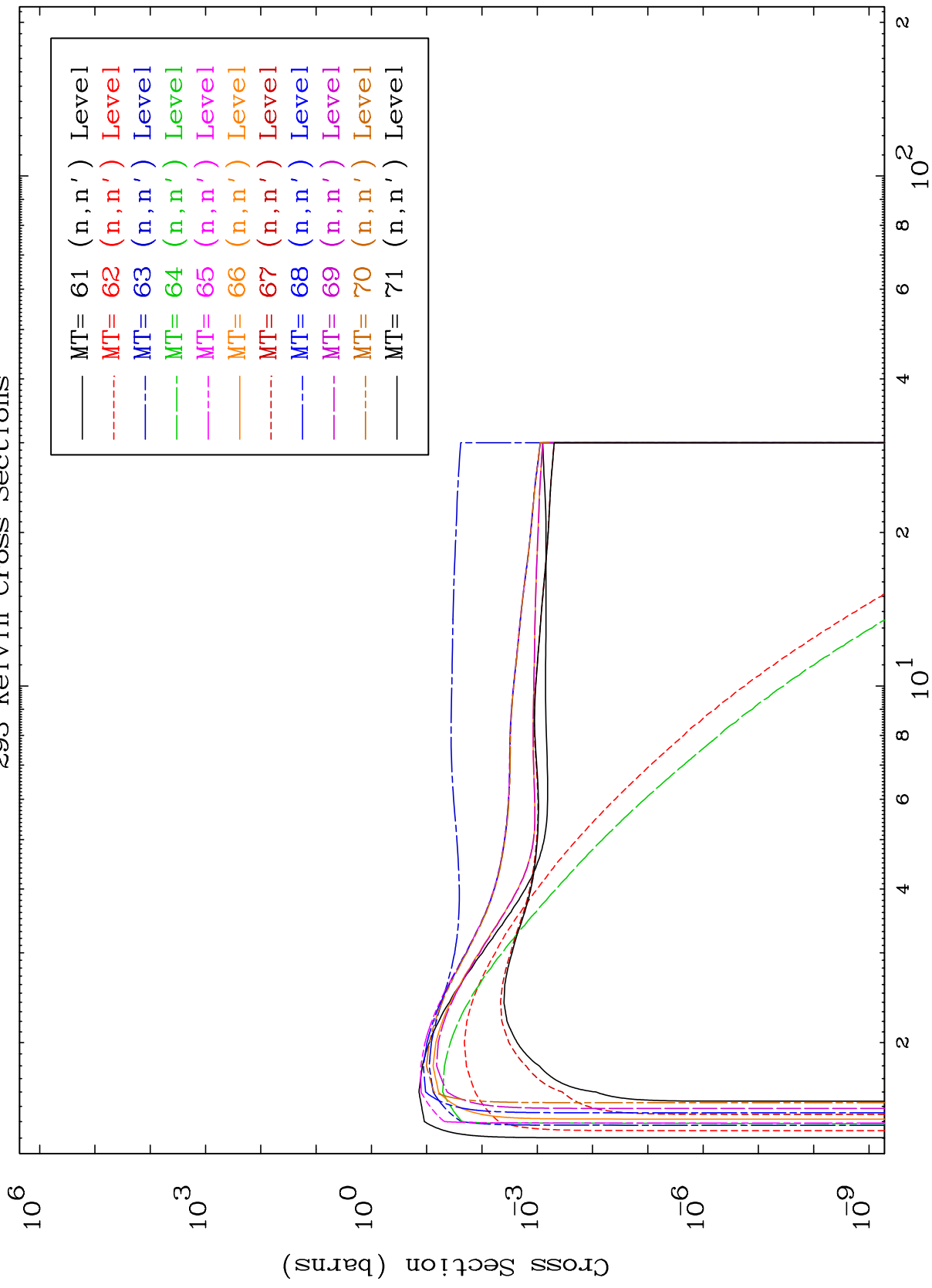


MAT 6625

(n,n') Level

293 Kelvin Cross Sections

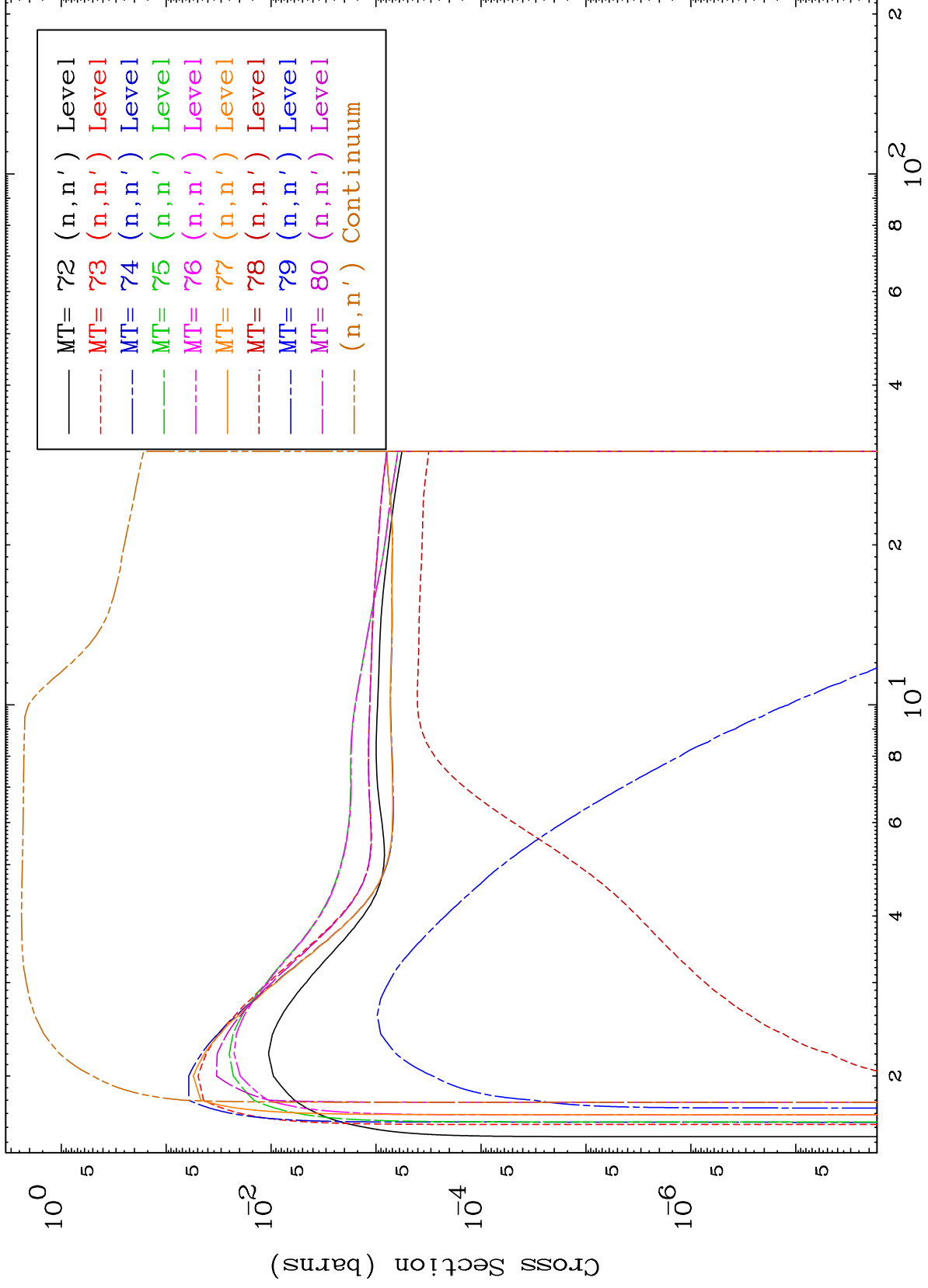
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8

Incident Energy (MeV)

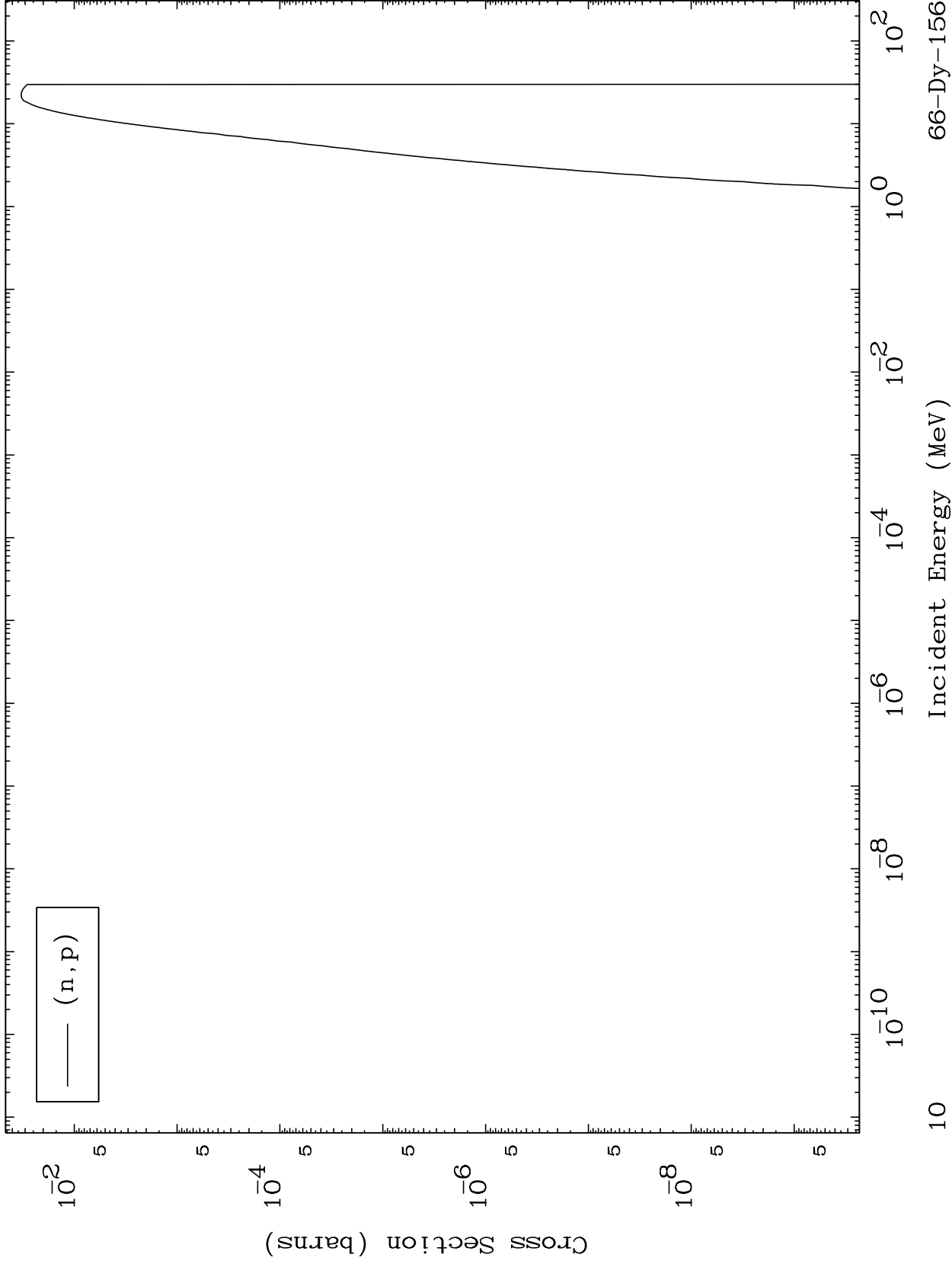
66-Dy-156



MAT 6625

(n,p) Levels  
293 Kelvin Cross Sections

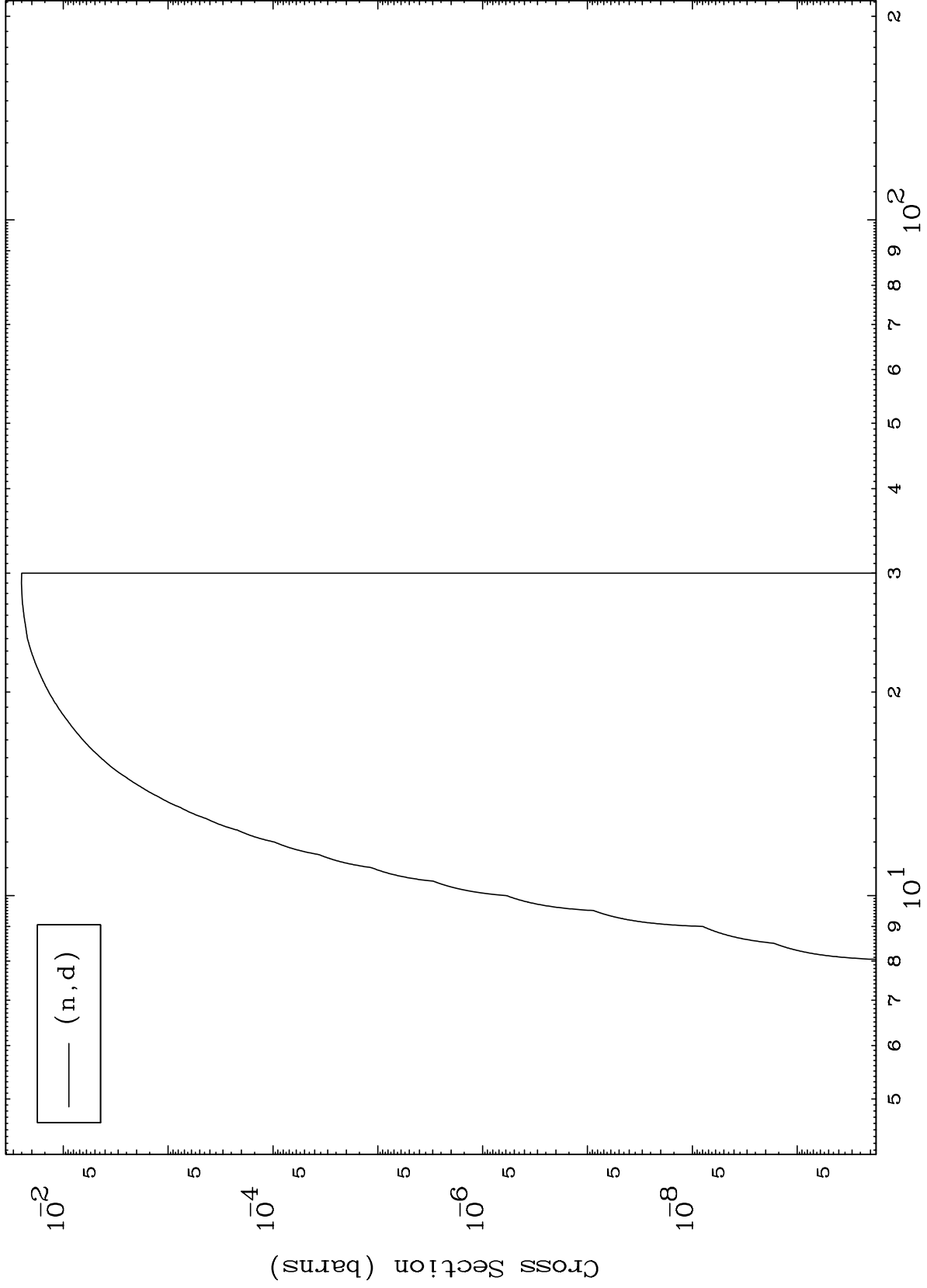
66-Dy-156



MAT 6625

(n,d) Levels  
293 Kelvin Cross Sections

66-Dy-156



11

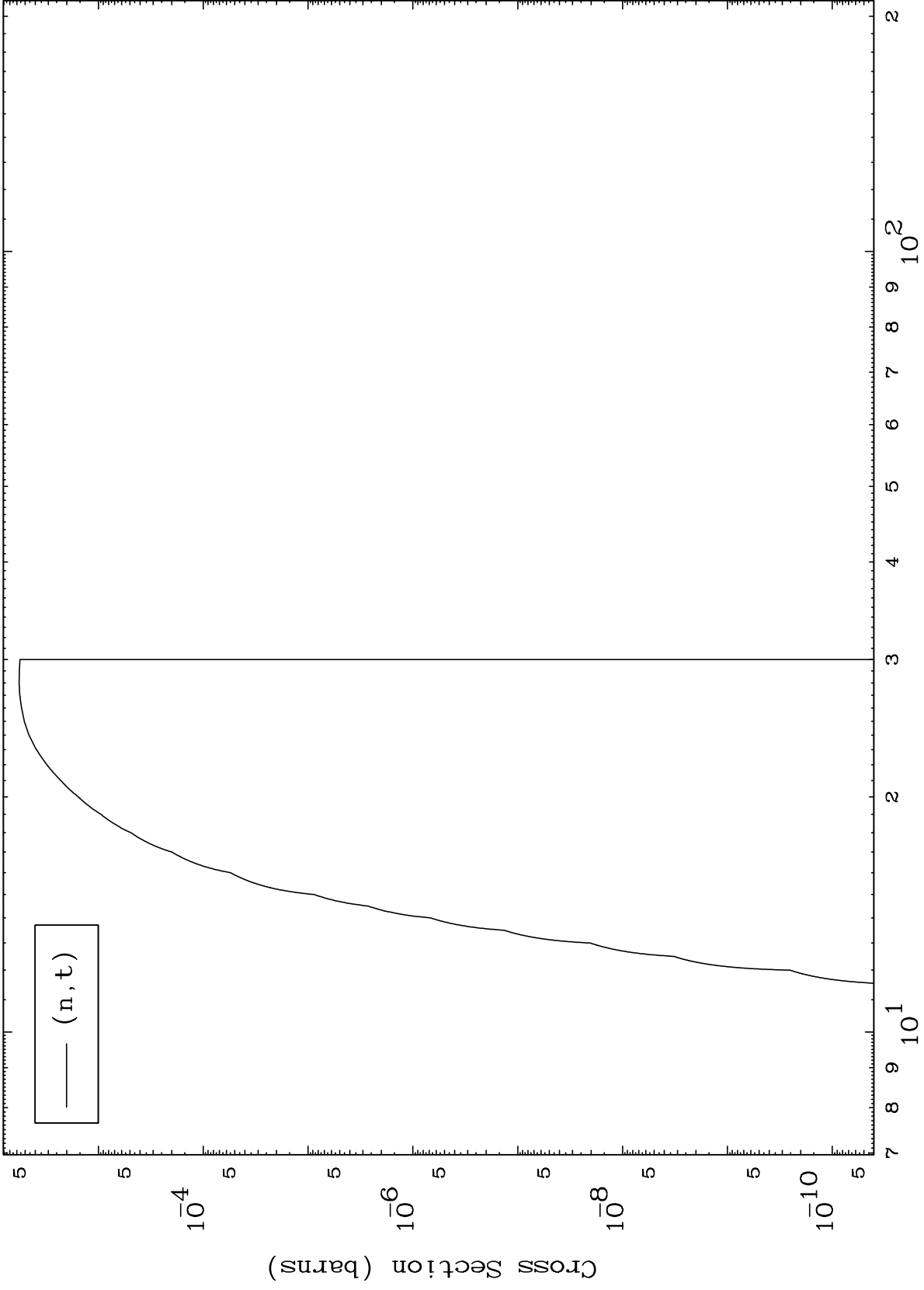
Incident Energy (MeV)

66-Dy-156

MAT 6625

(n,t) Levels  
293 Kelvin Cross Sections

66-Dy-156



12

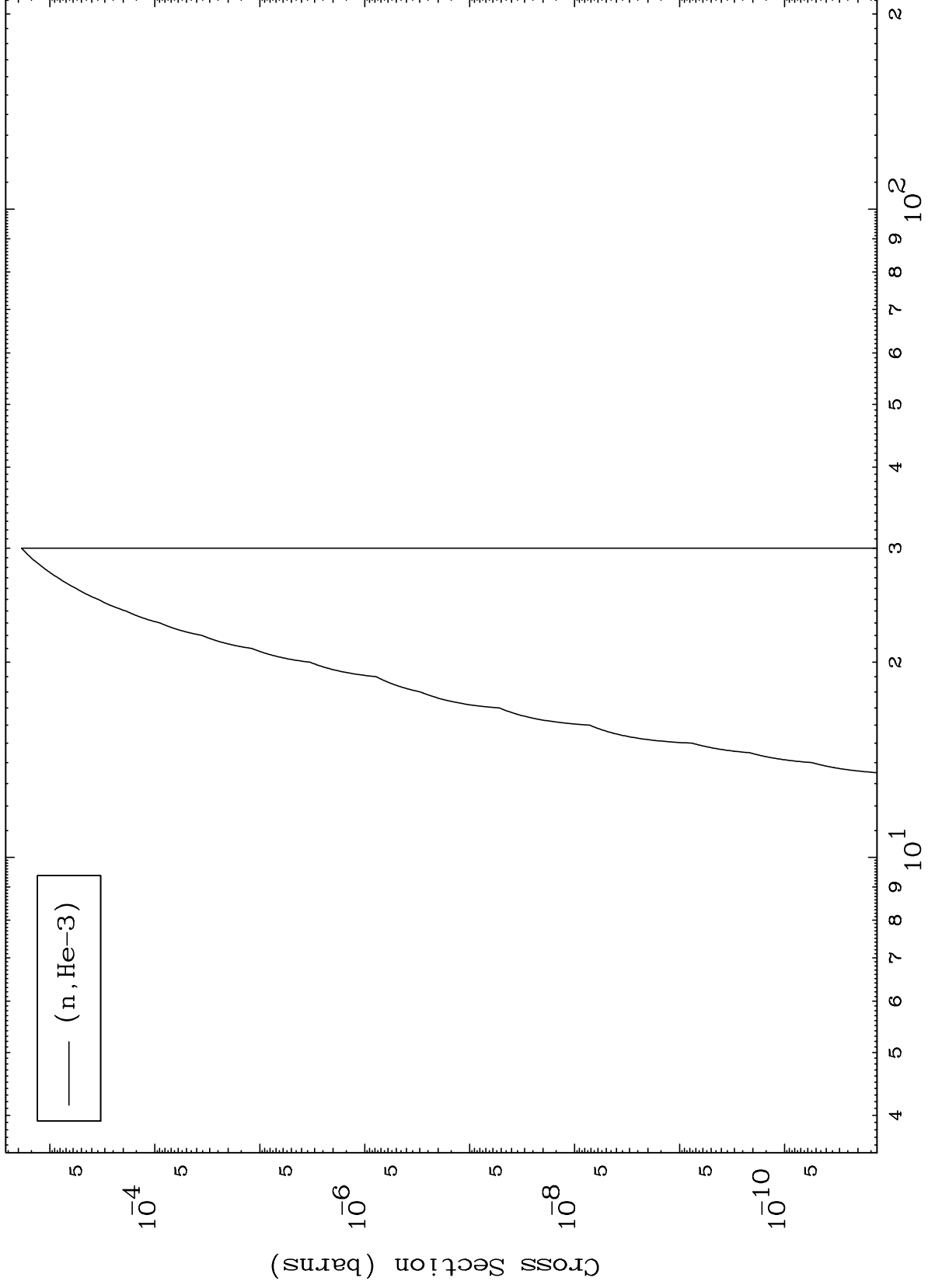
Incident Energy (MeV)

66-Dy-156

MAT 6625

(n,He3) Levels  
293 Kelvin Cross Sections

66-Dy-156



13

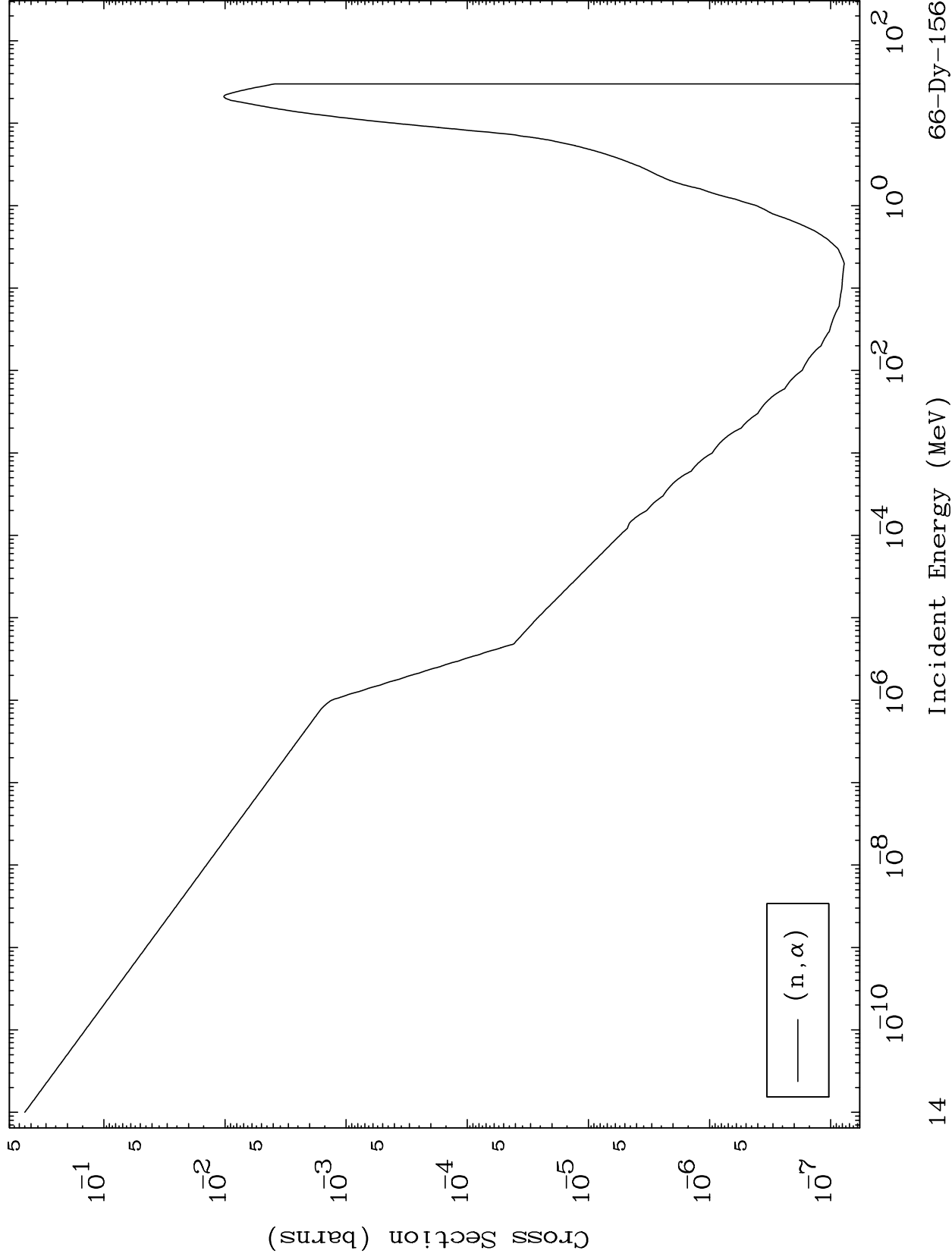
Incident Energy (MeV)

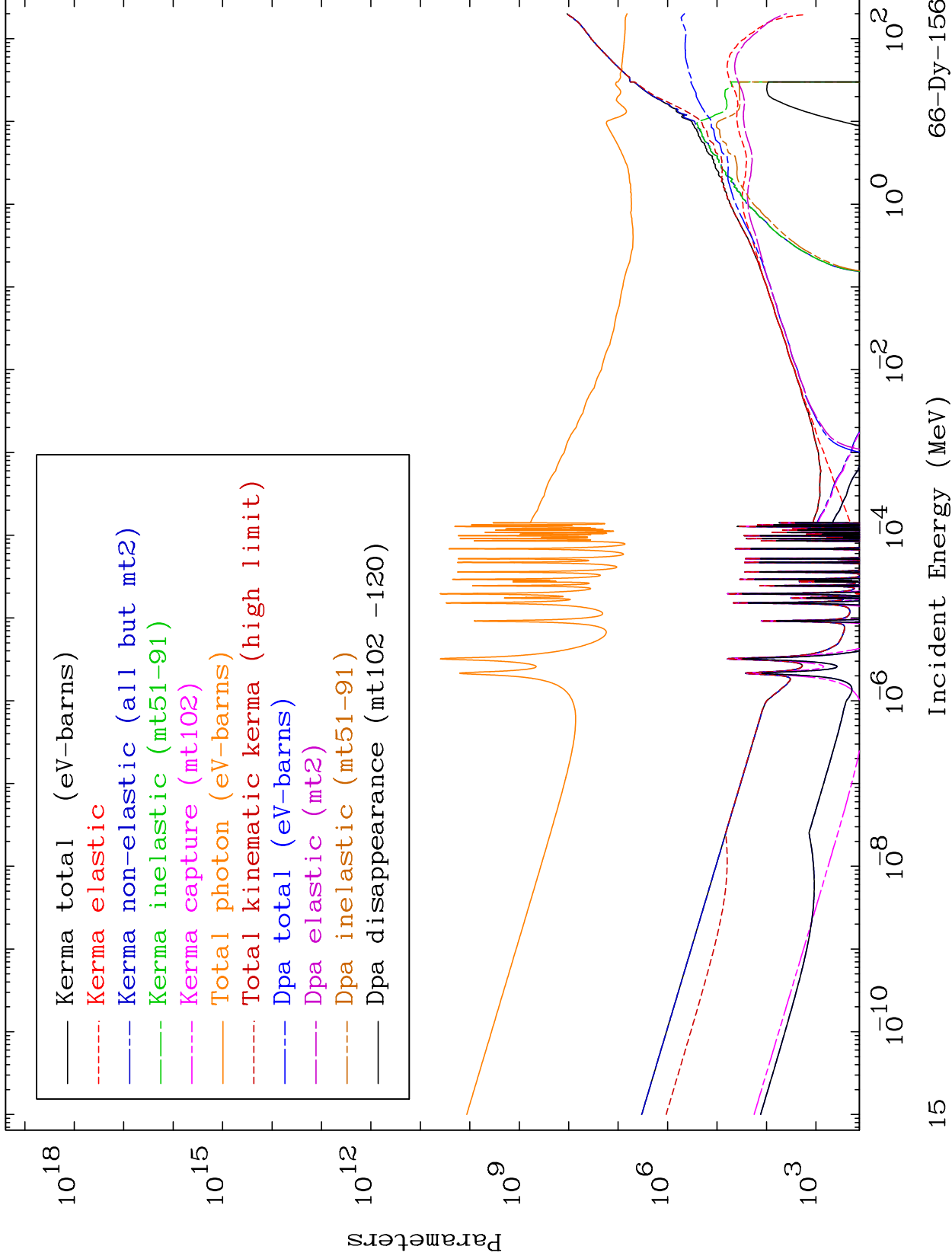
66-Dy-156

MAT 6625

(n,α) Levels  
293 Kelvin Cross Sections

66-Dy-156



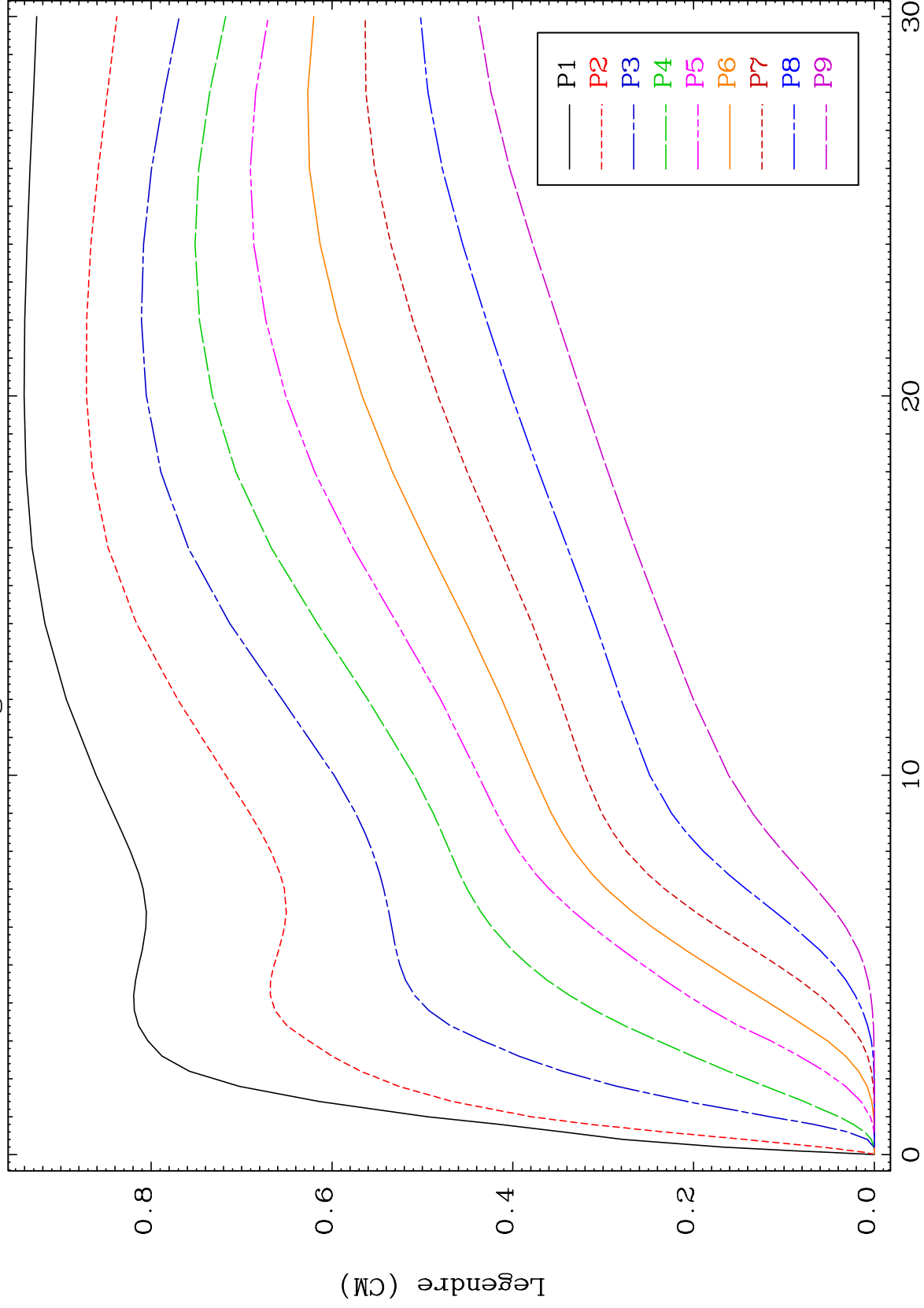




MAT 6625

Elastic Legendre Coefficients

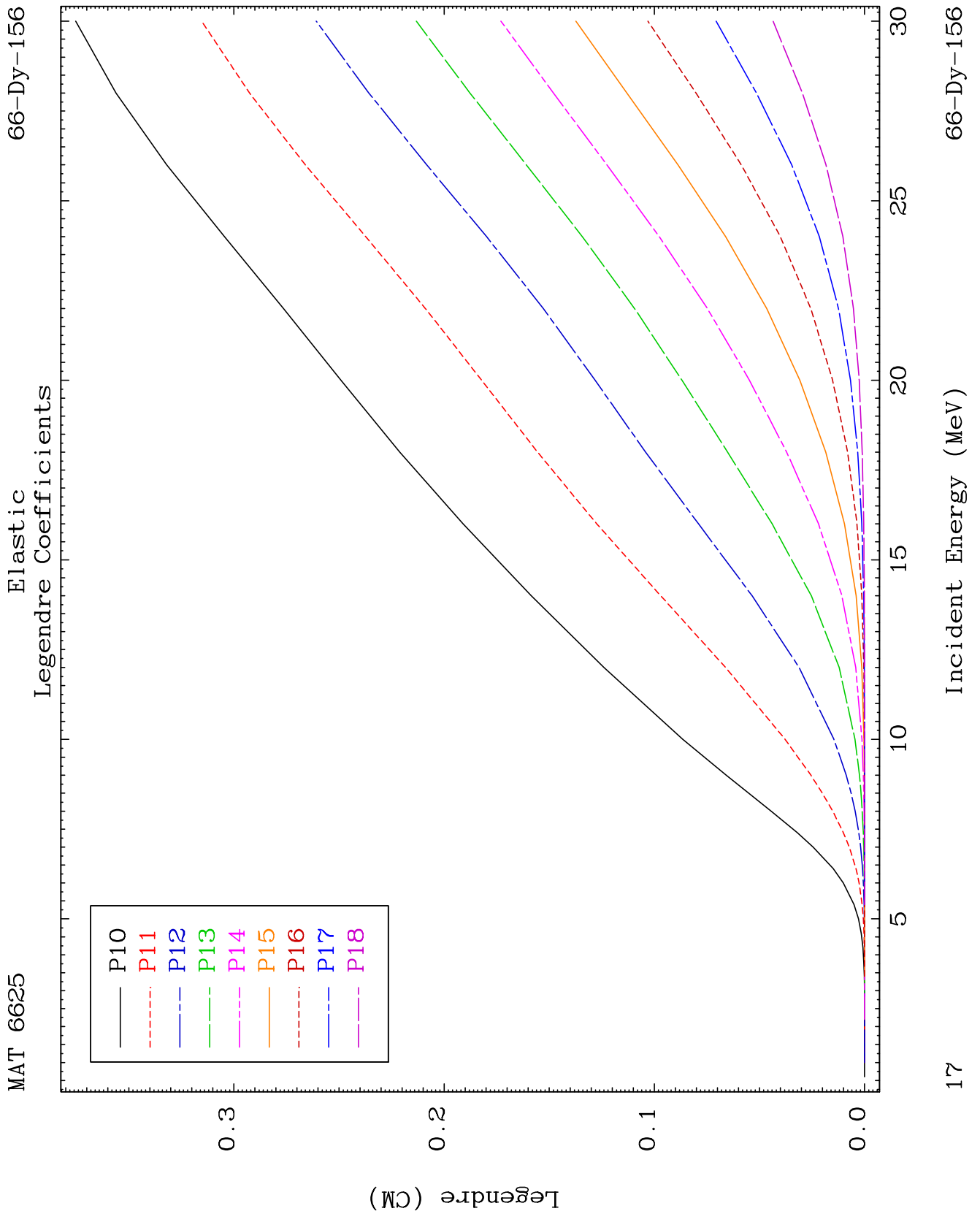
66-Dy-156



16

Incident Energy (MeV)

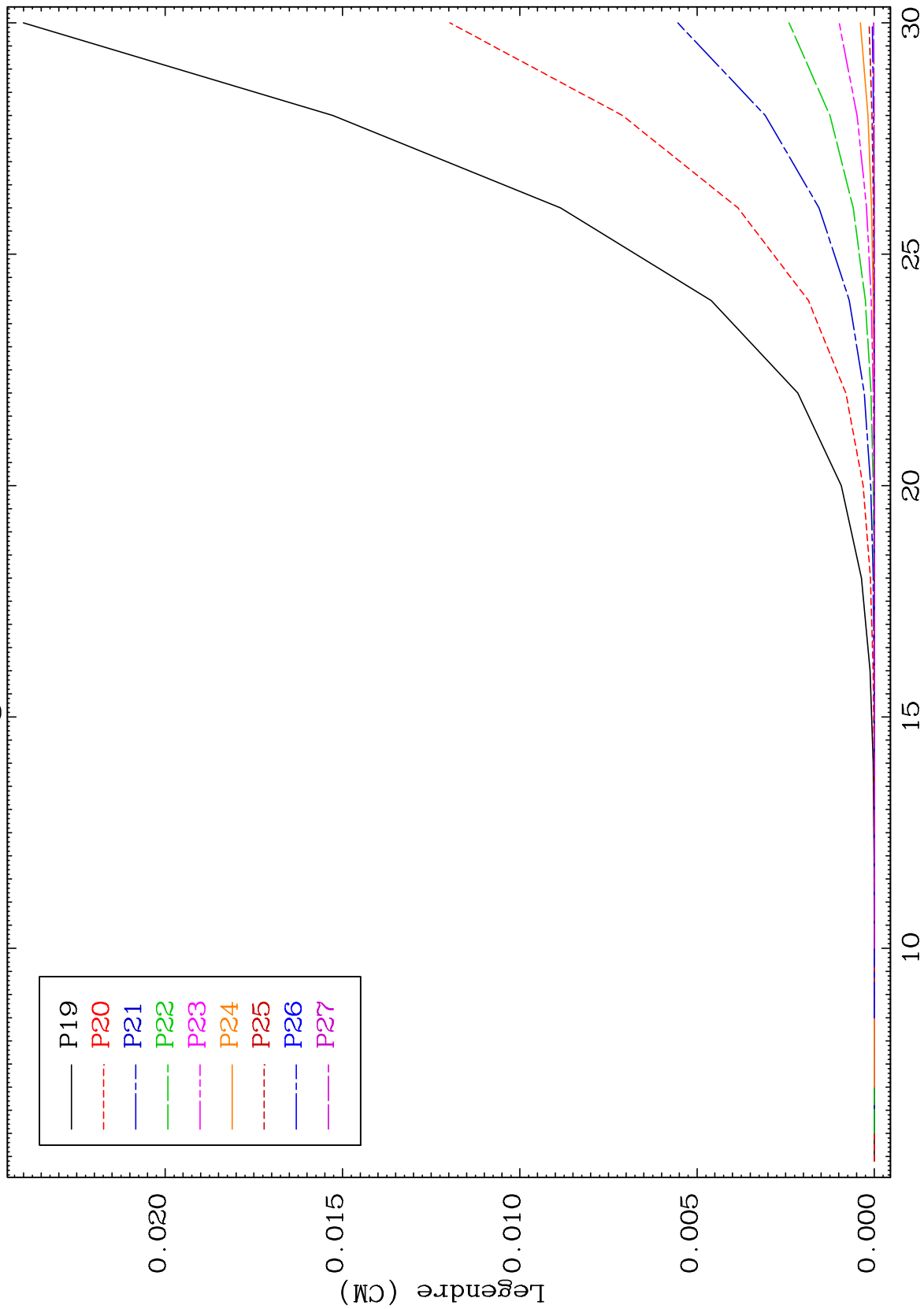
66-Dy-156



MAT 6625

### Elastic Legendre Coefficients

66-Dy-156



18

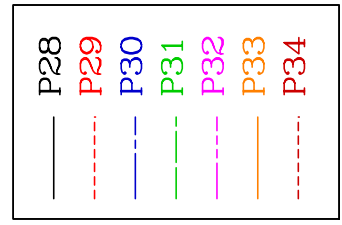
Incident Energy (MeV)

66-Dy-156

MAT 6625

Elastic Legendre Coefficients

66-Dy-156



$\times 10^{-6}$

Legendre (CM)

10

15

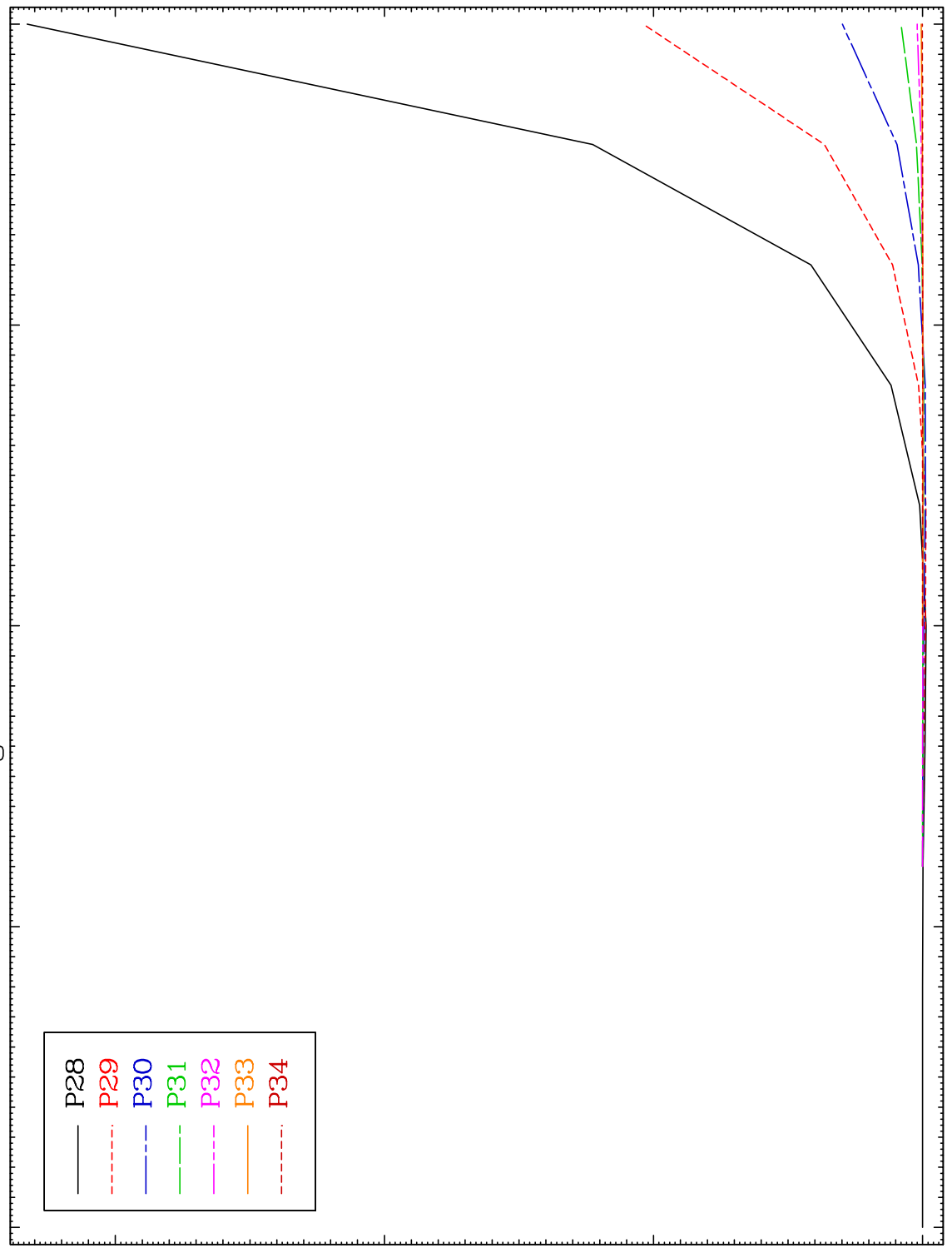
20

25

30

Incident Energy (MeV)

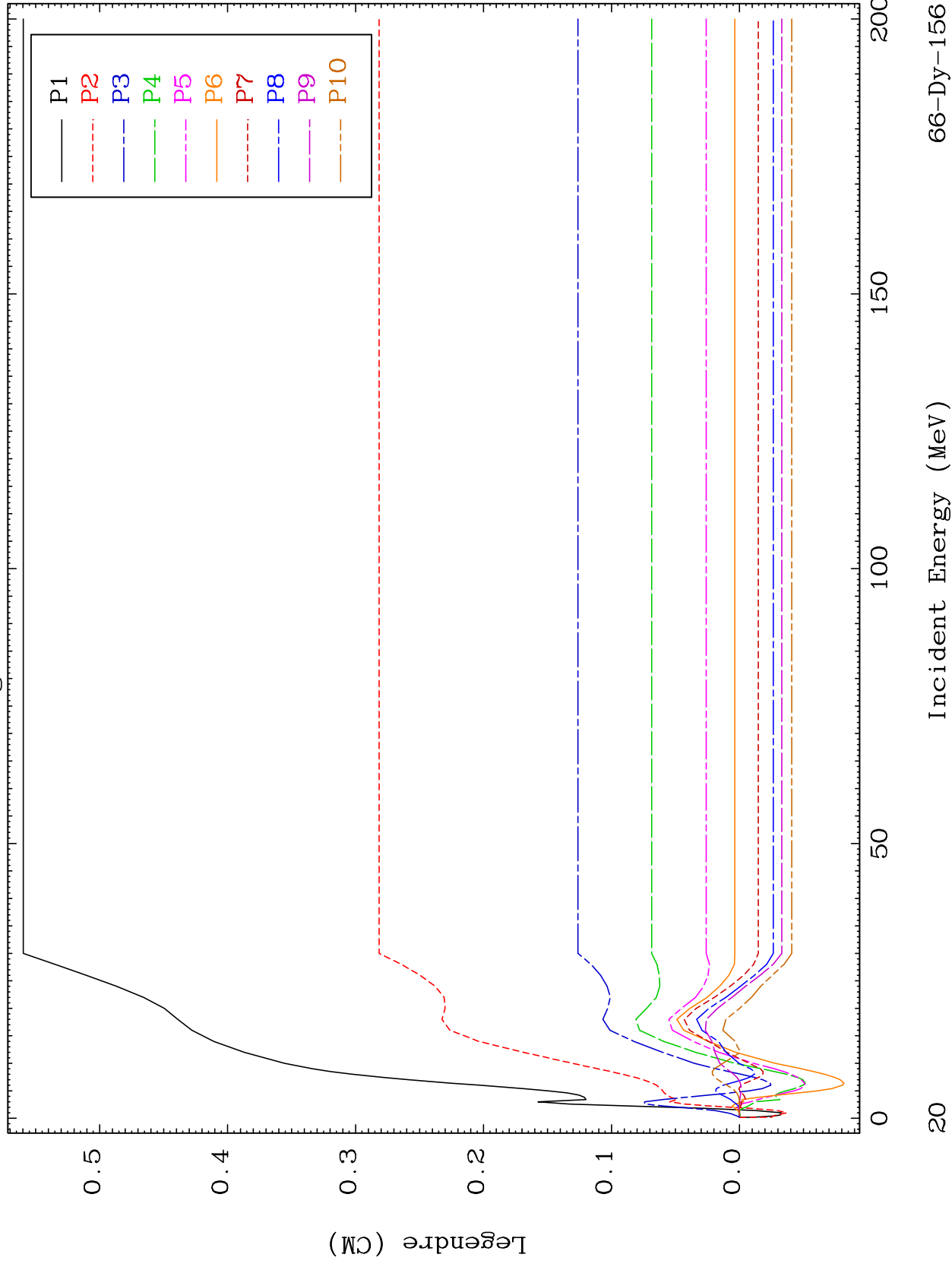
66-Dy-156



MAT 6625

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

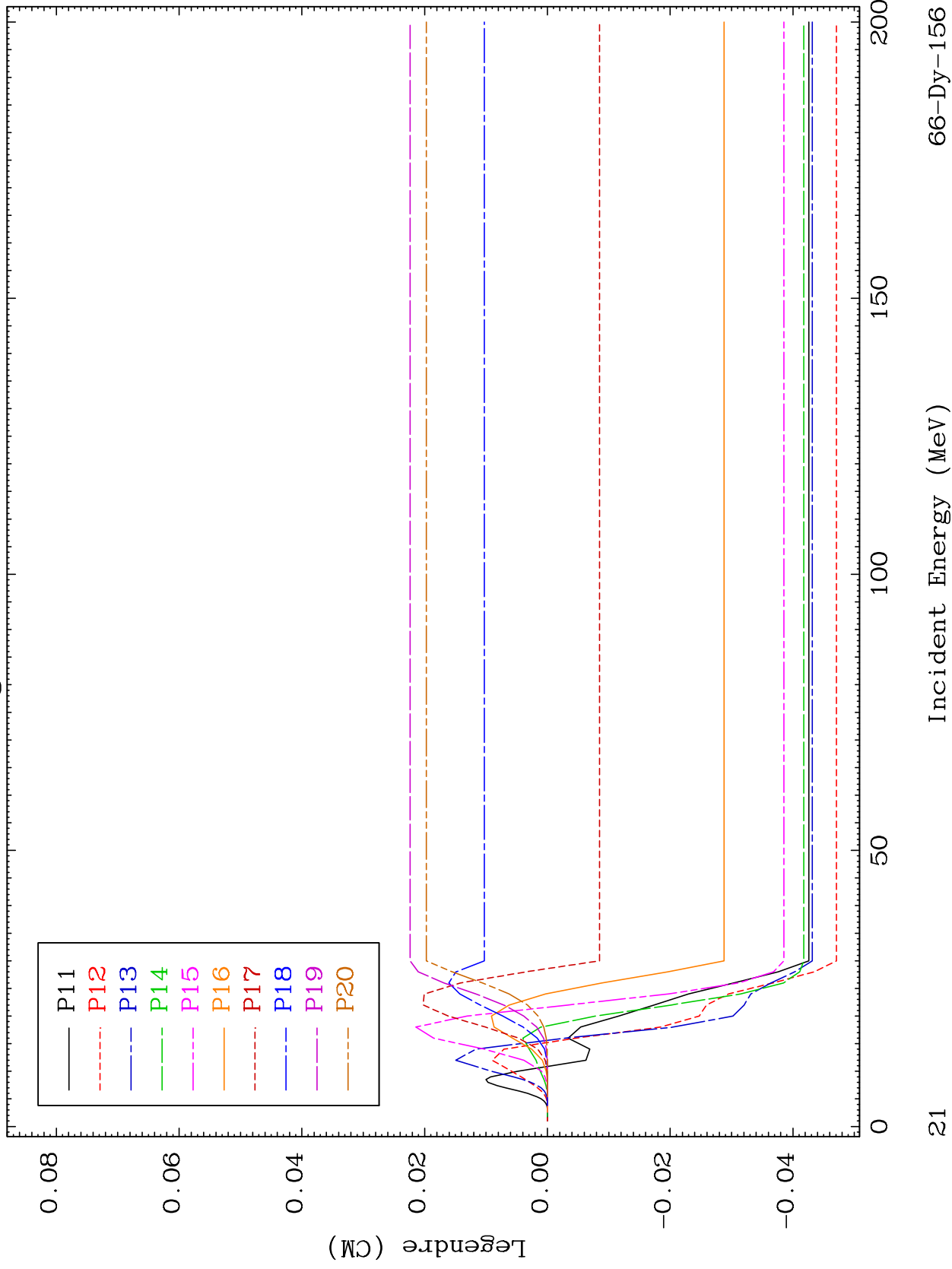
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MAT 6625

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

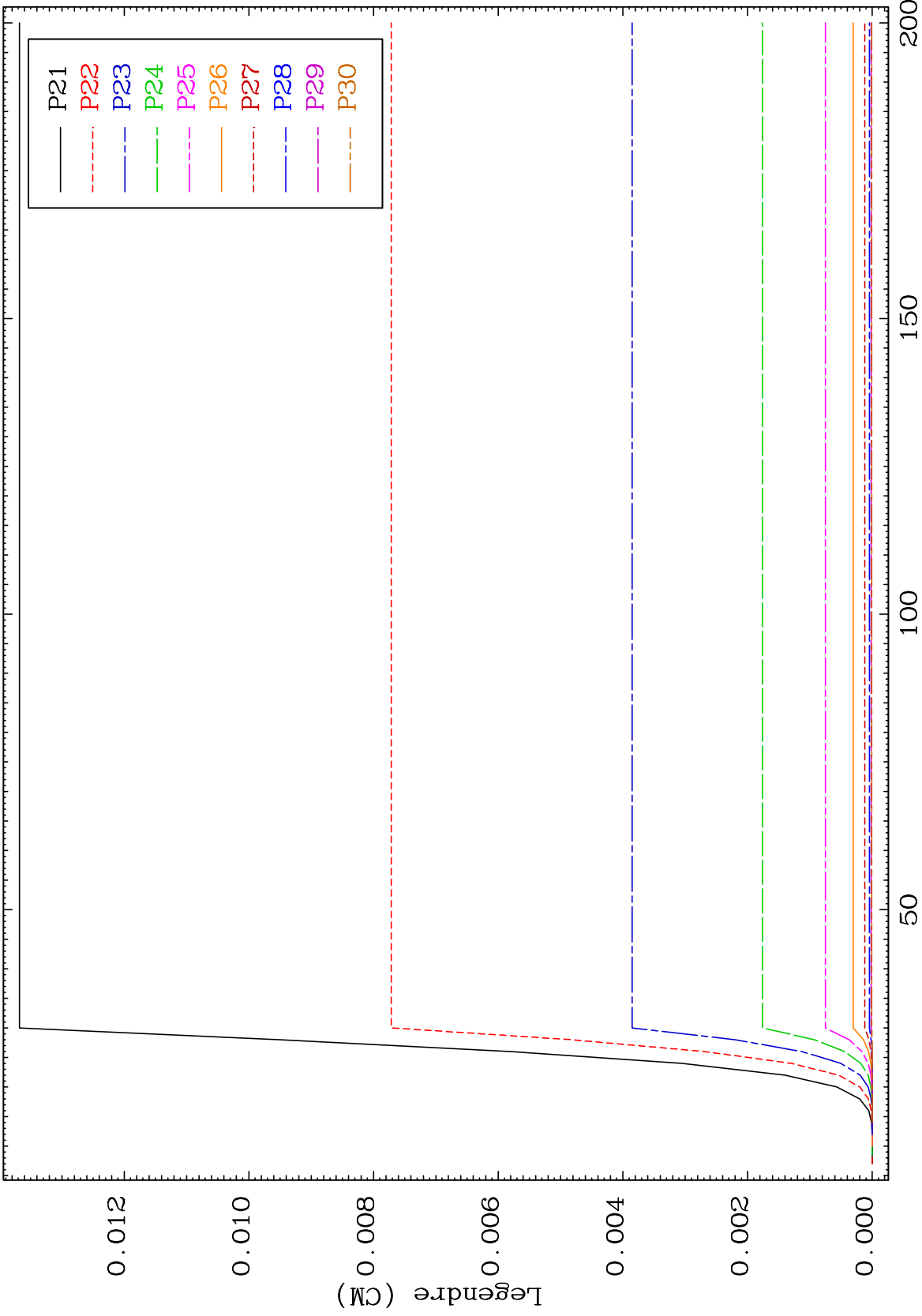
66-Dy-156



MAT 6625

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

66-Dy-156



22

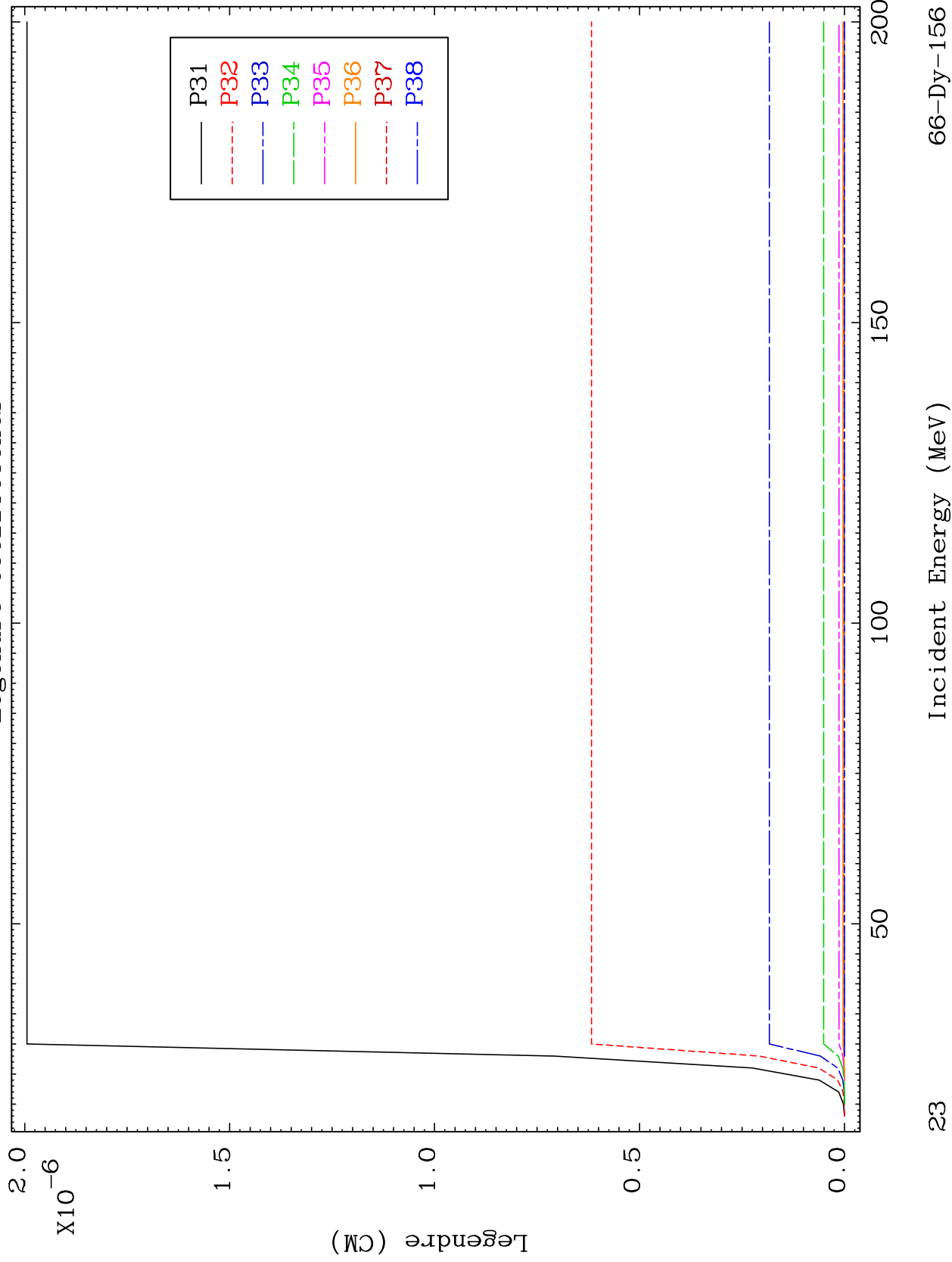
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156



23

Incident Energy (MeV)

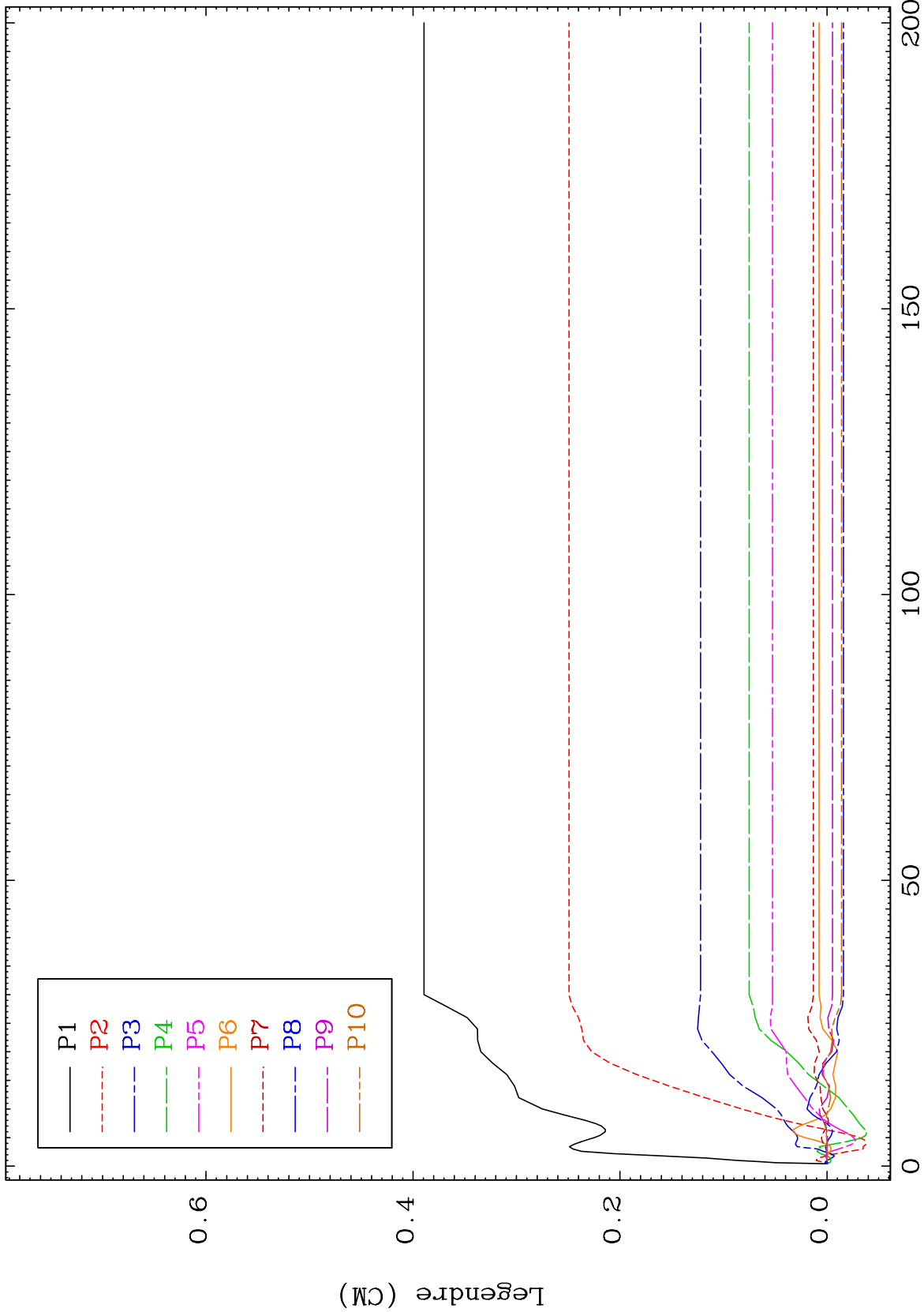
66-Dy-156



MAT 6625

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

66-Dy-156



24

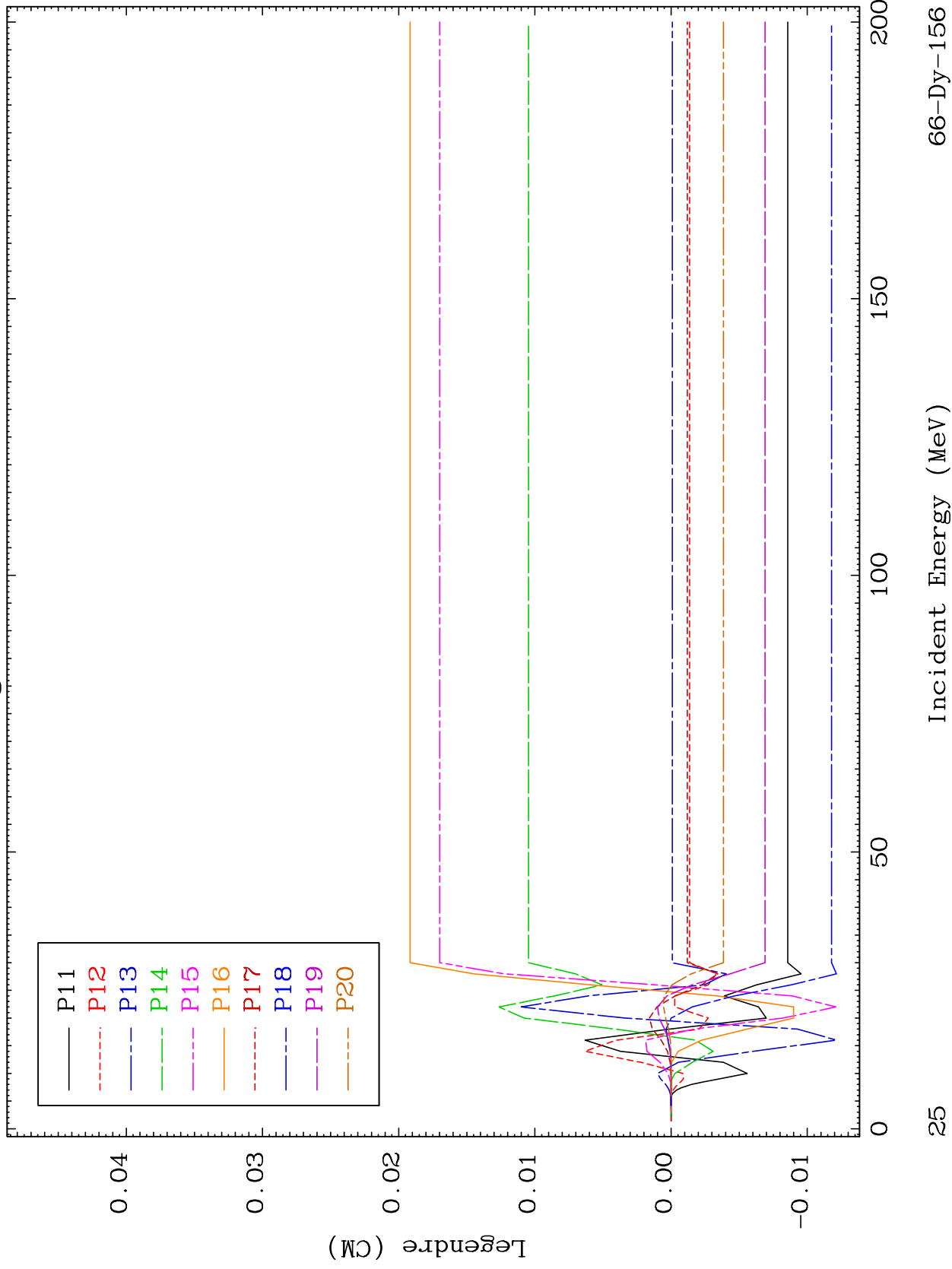
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

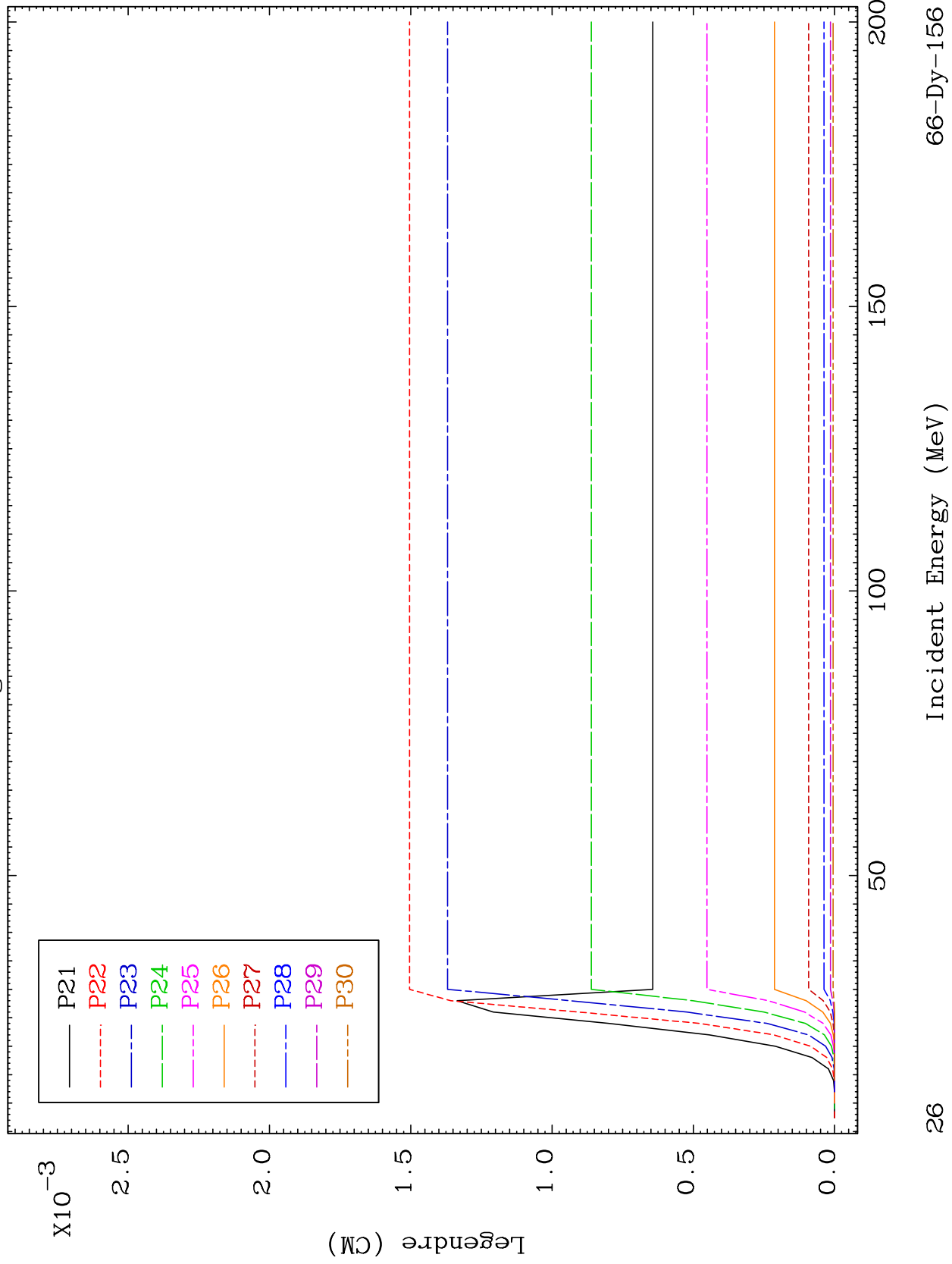
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MAT 6625

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

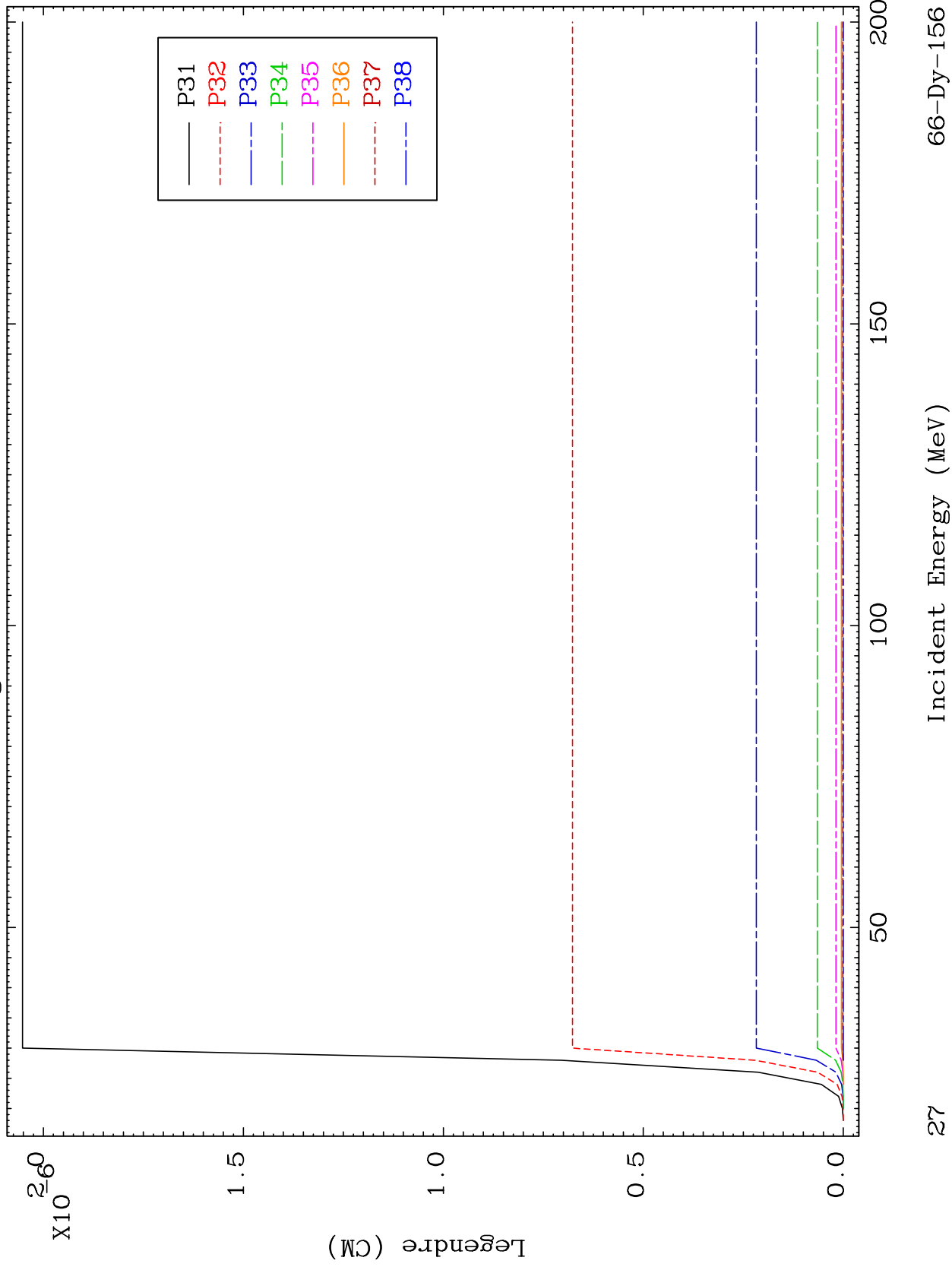
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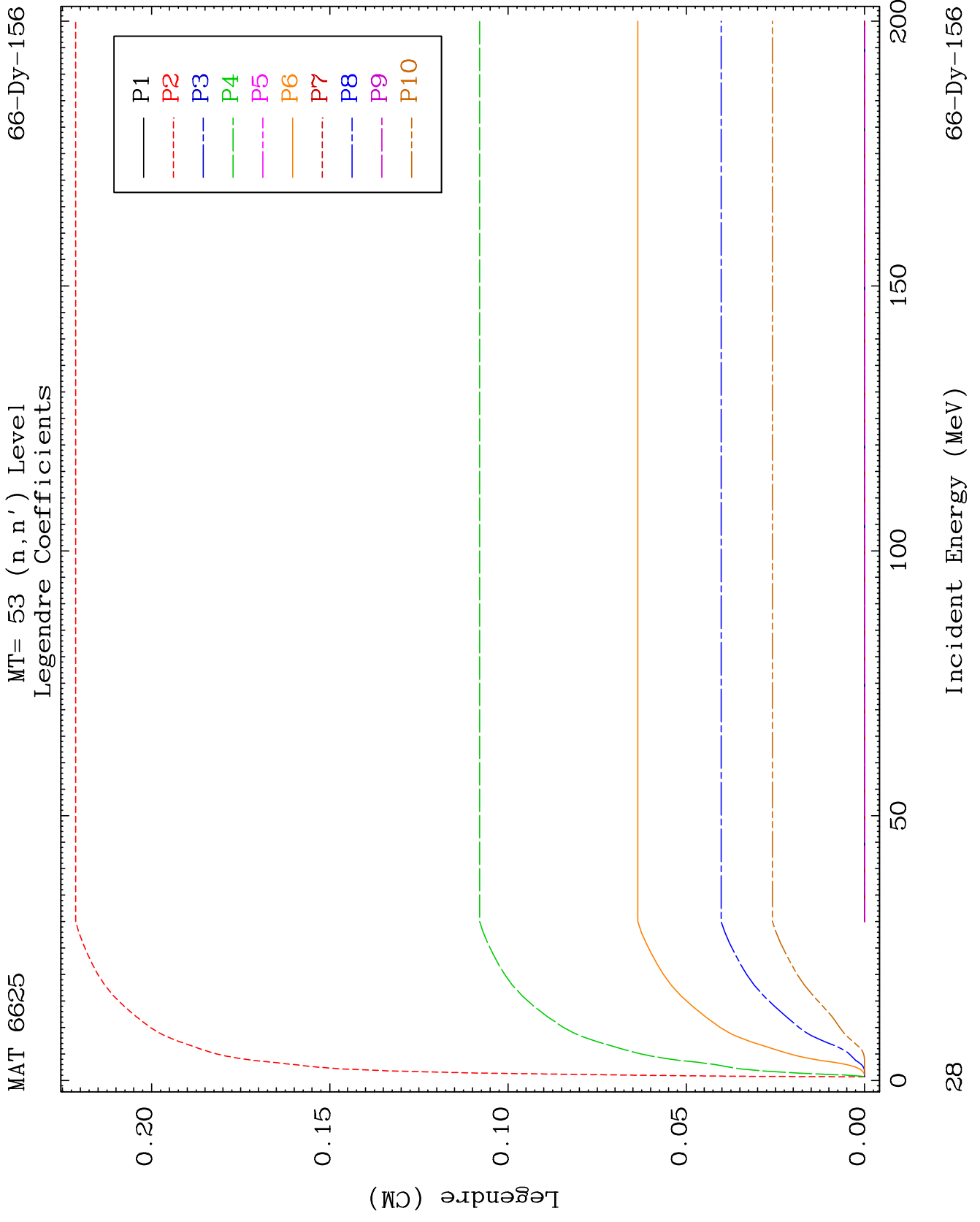


MAT 6625

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

66-Dy-156

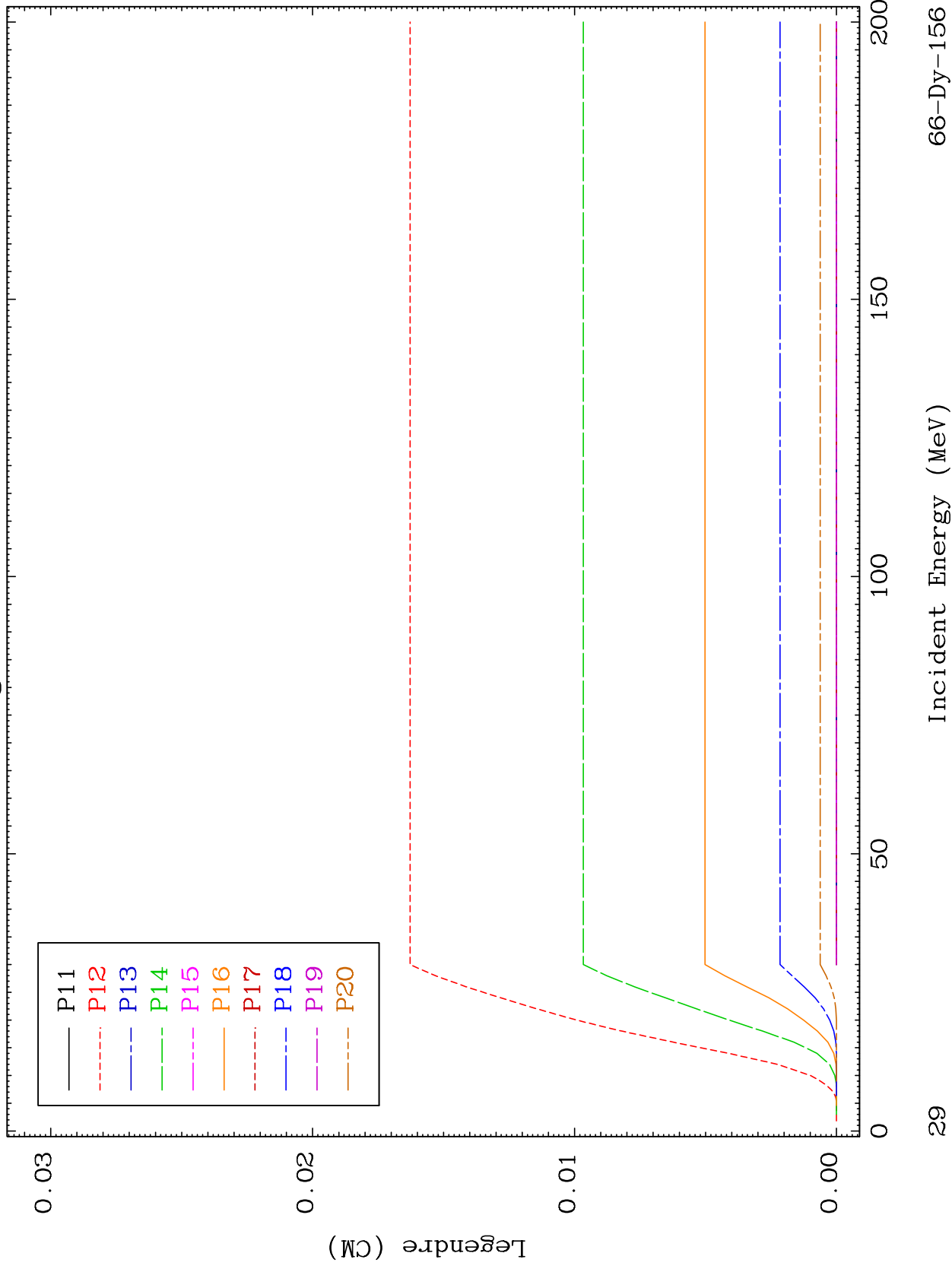




MAT 6625

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

66-Dy-156



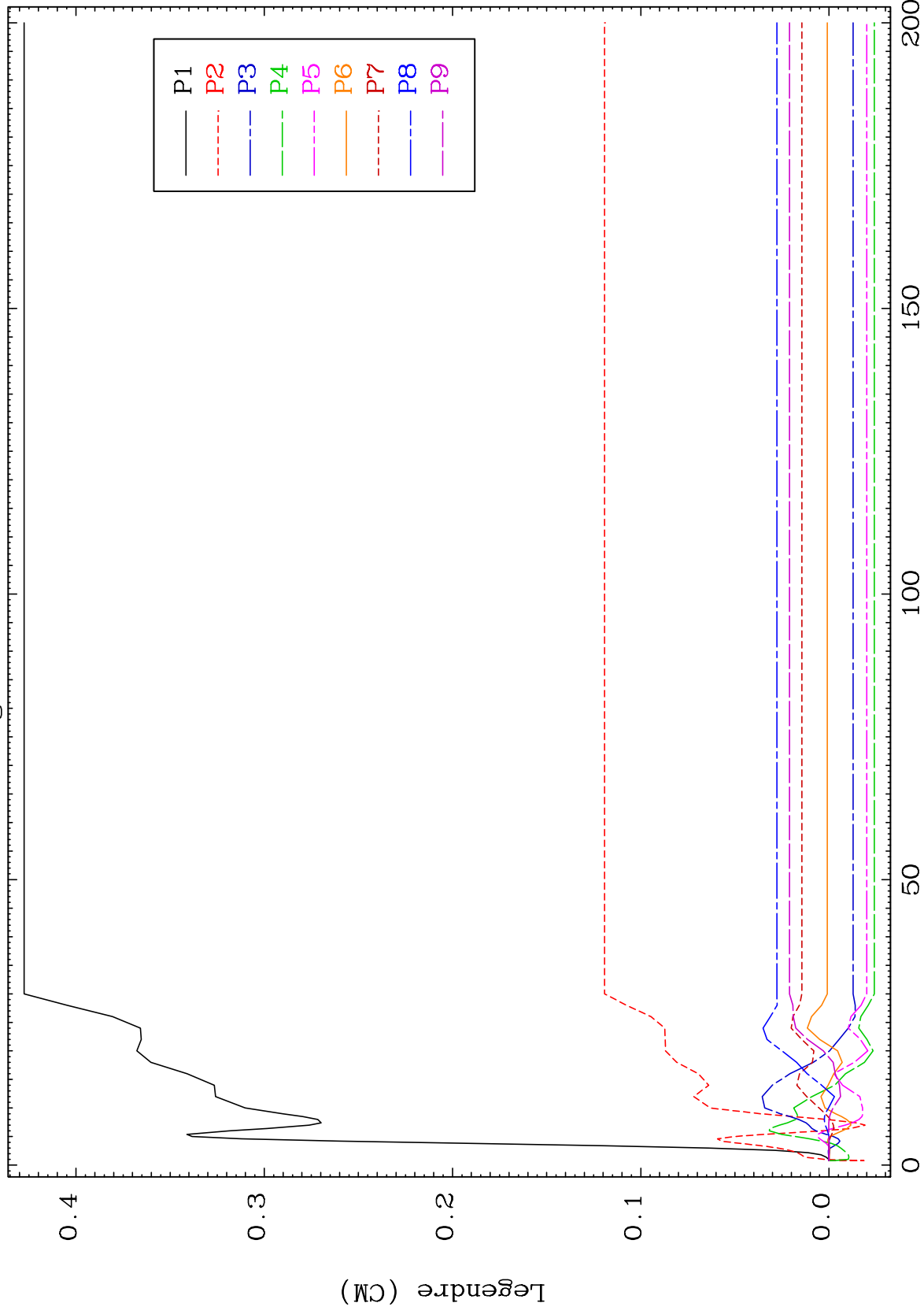
29



MAT 6625

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

66-Dy-156



31

Incident Energy (MeV)

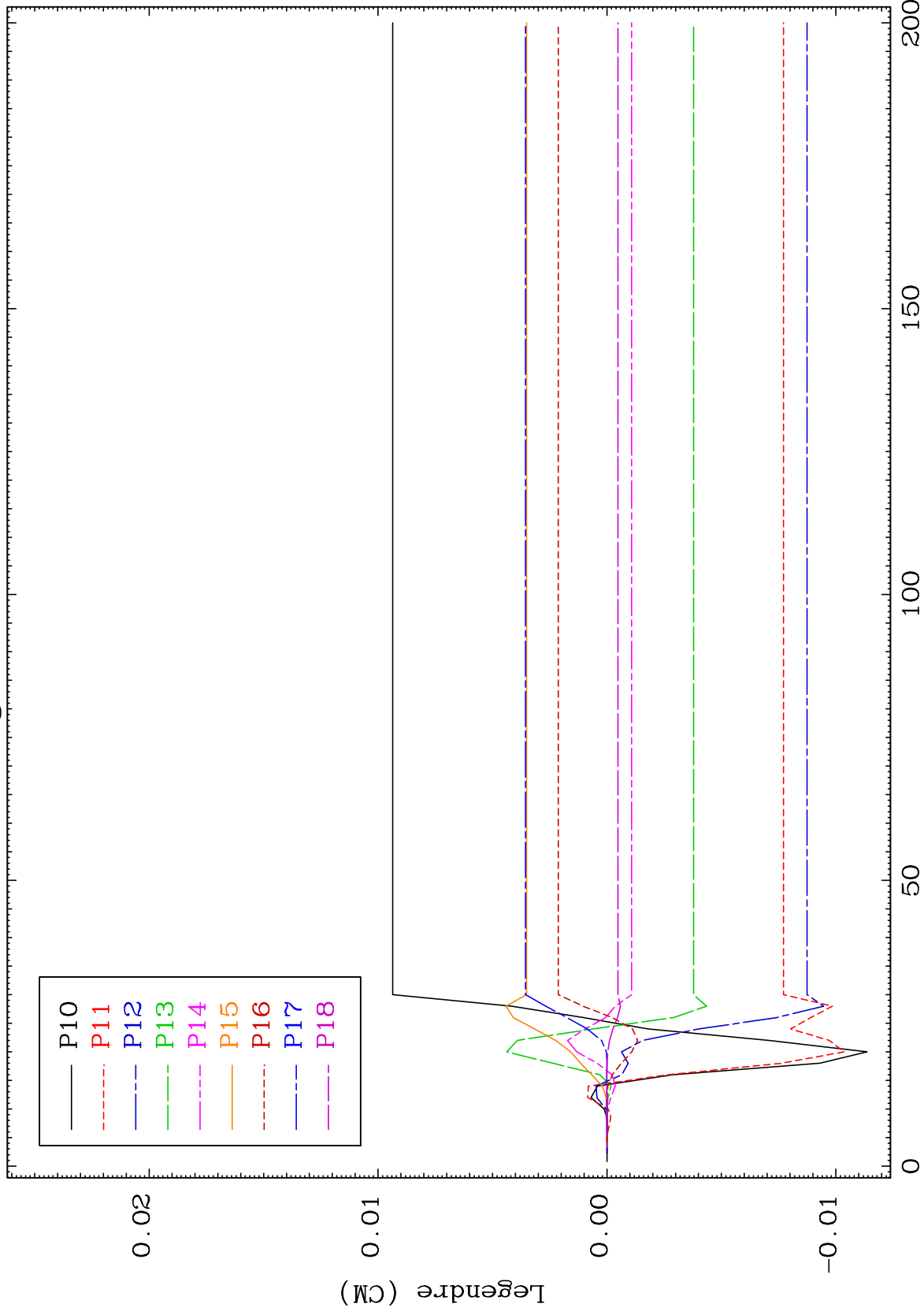
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MAT 6625

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

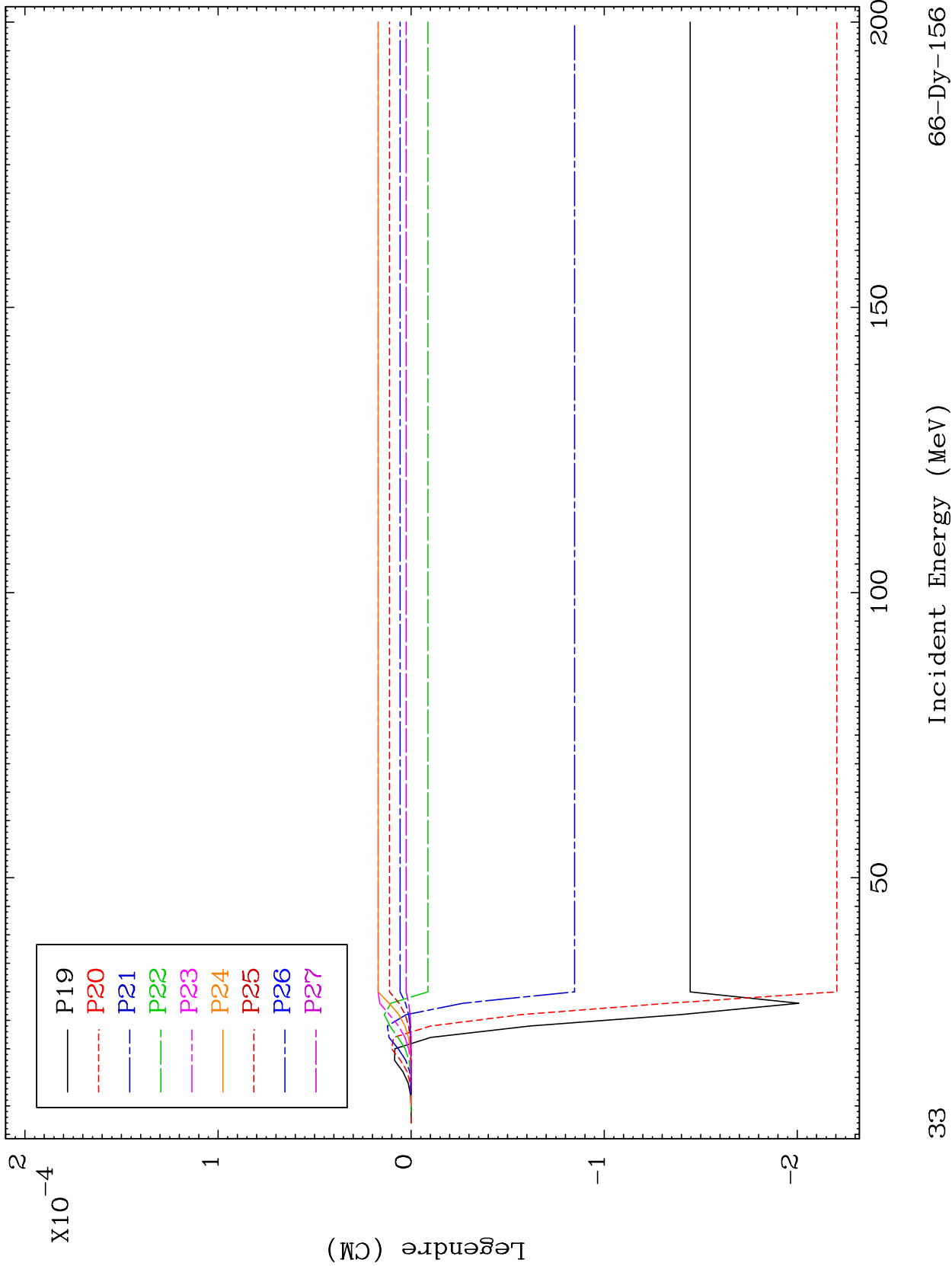
66-Dy-156



32

Incident Energy (MeV)

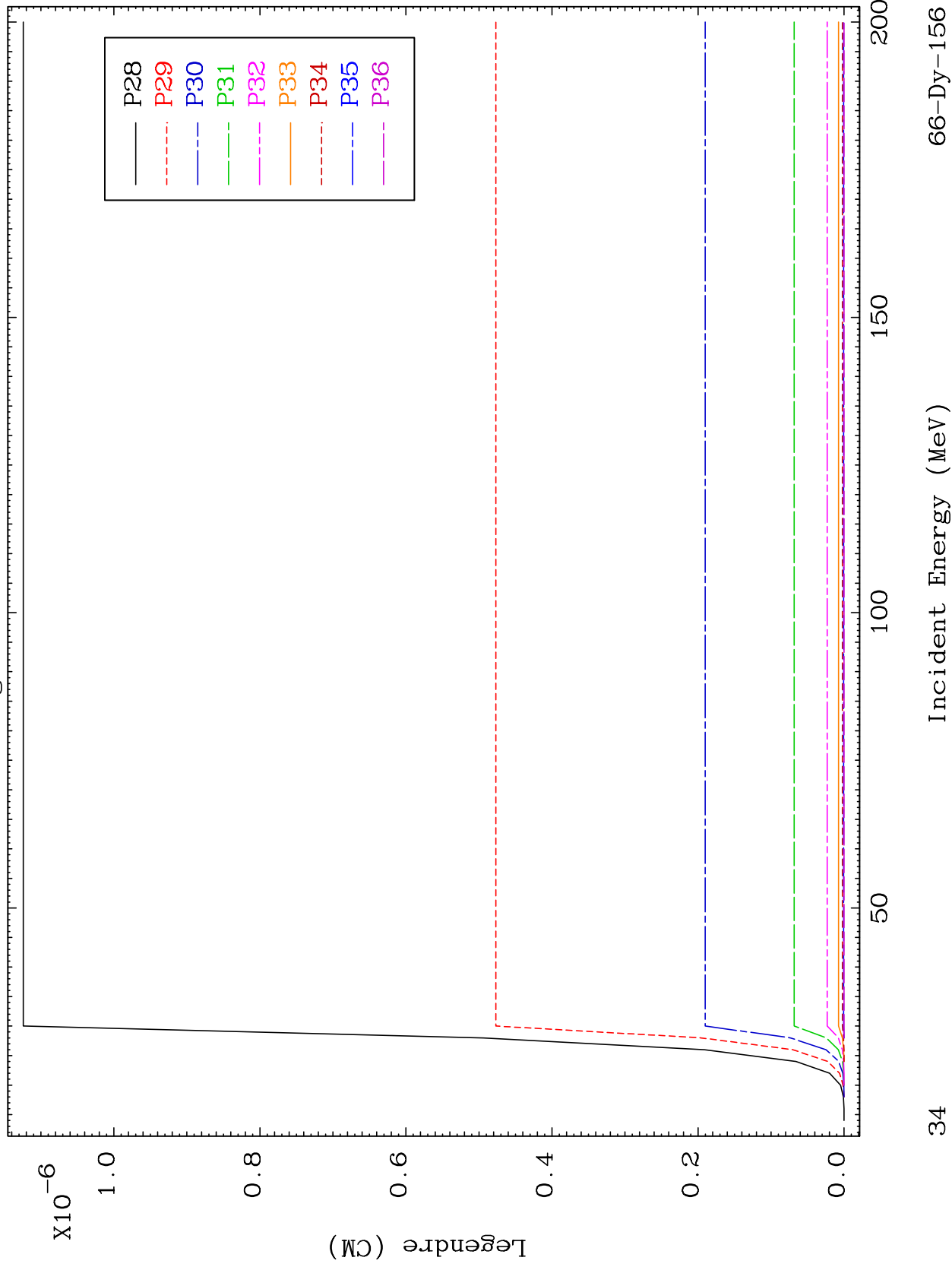
66-Dy-156



MAT 6625

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

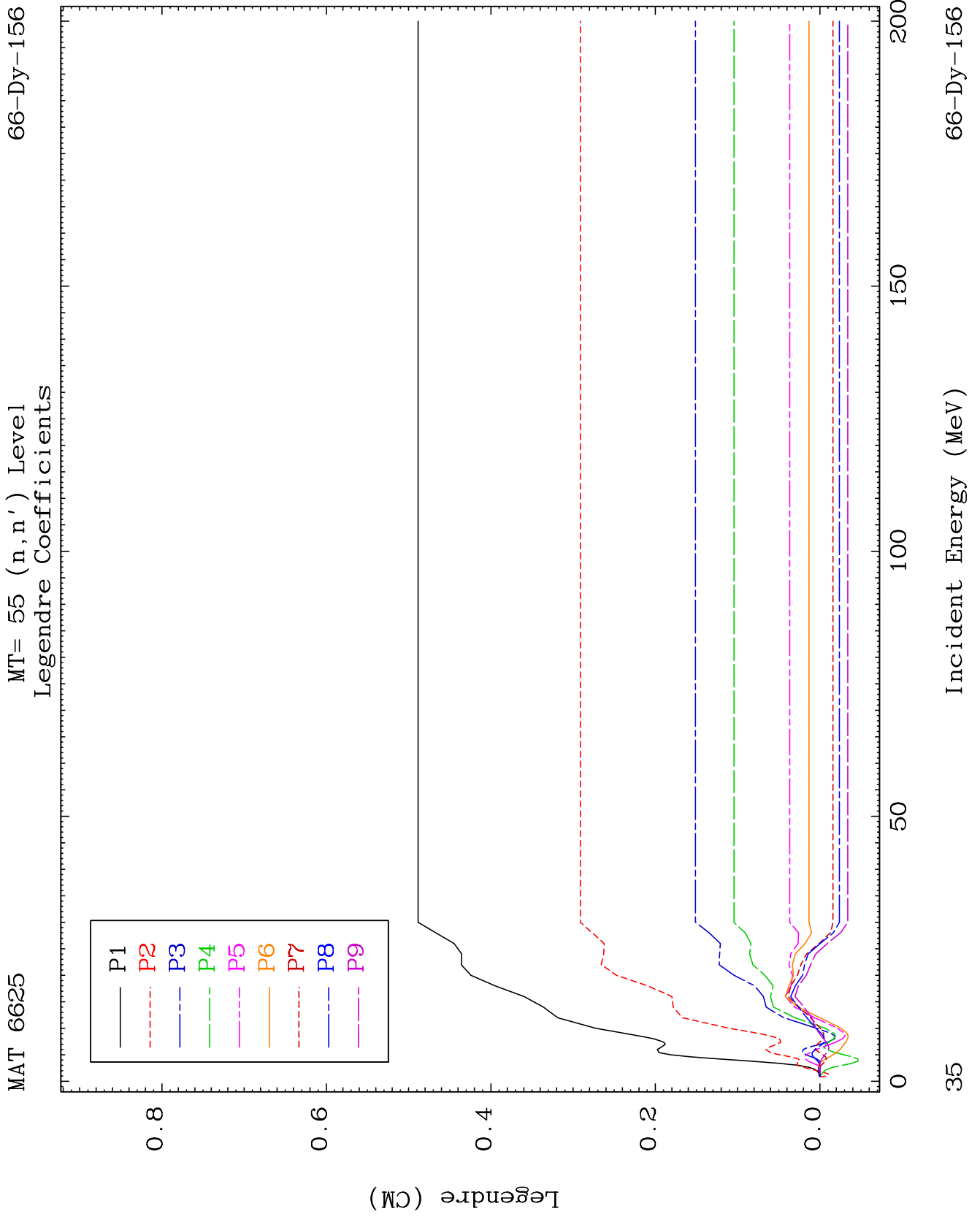
66-Dy-156



34

Incident Energy (MeV)

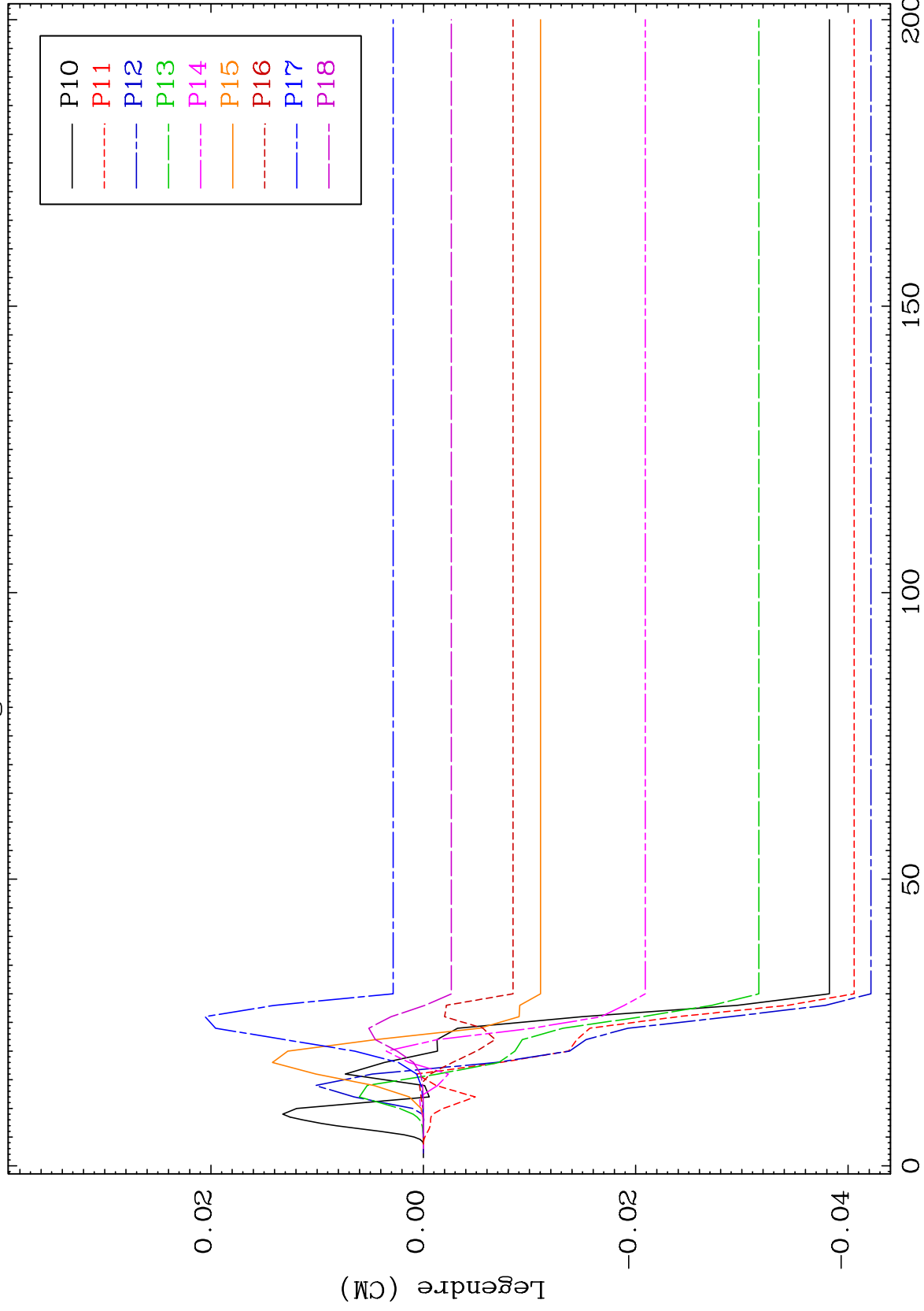
66-Dy-156



MAT 6625

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

66-Dy-156



36

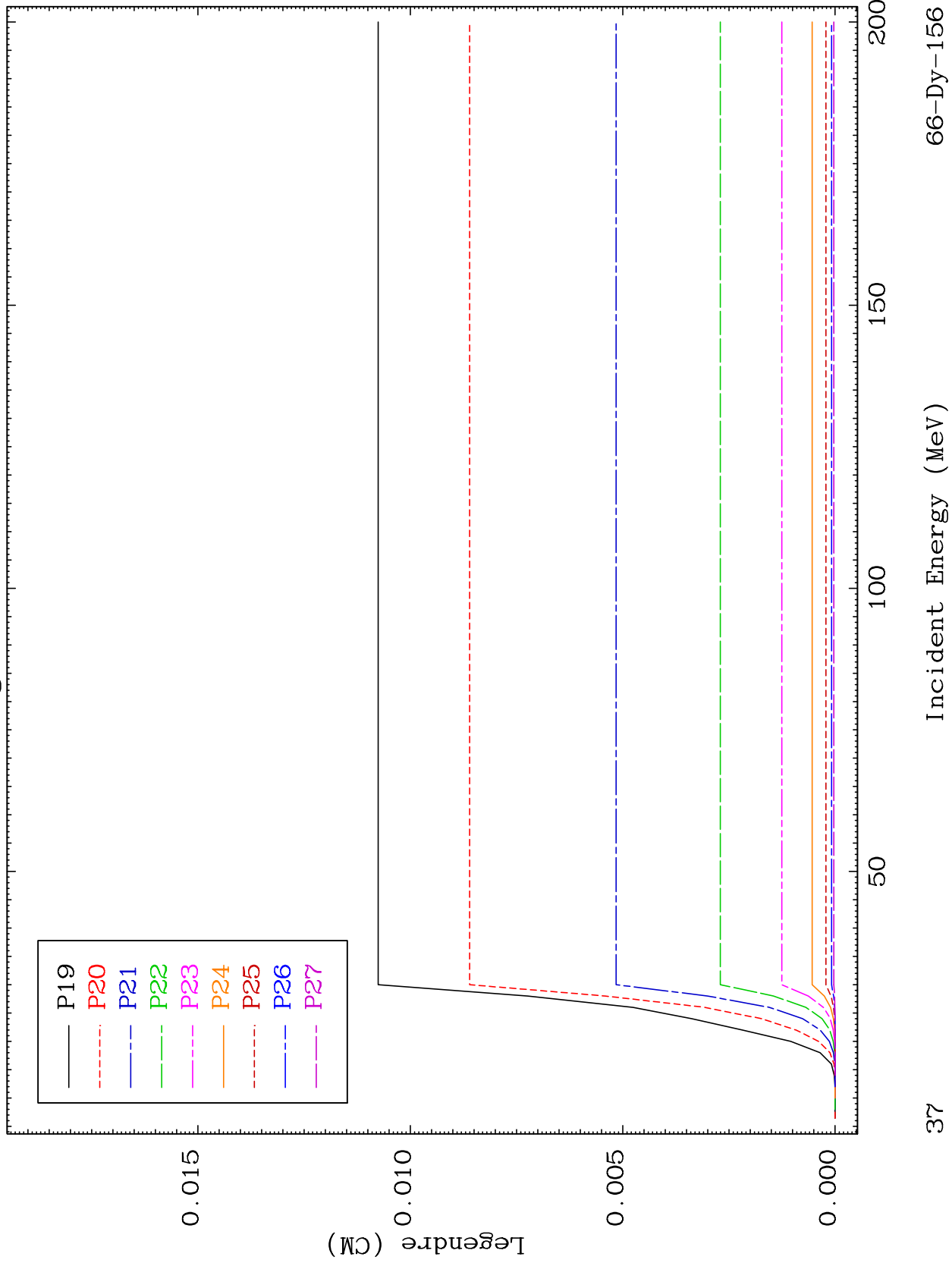
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156



37

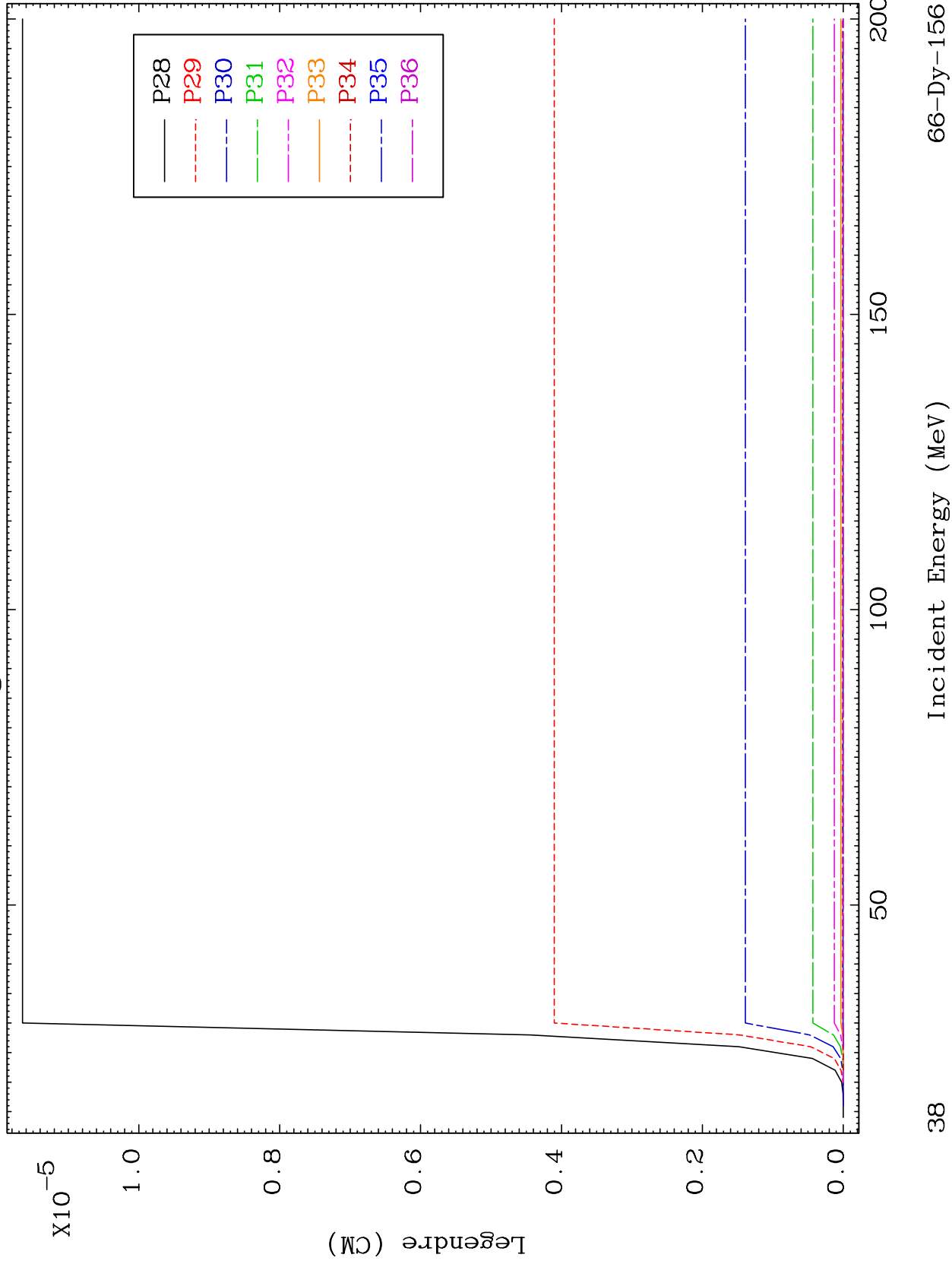
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156



38

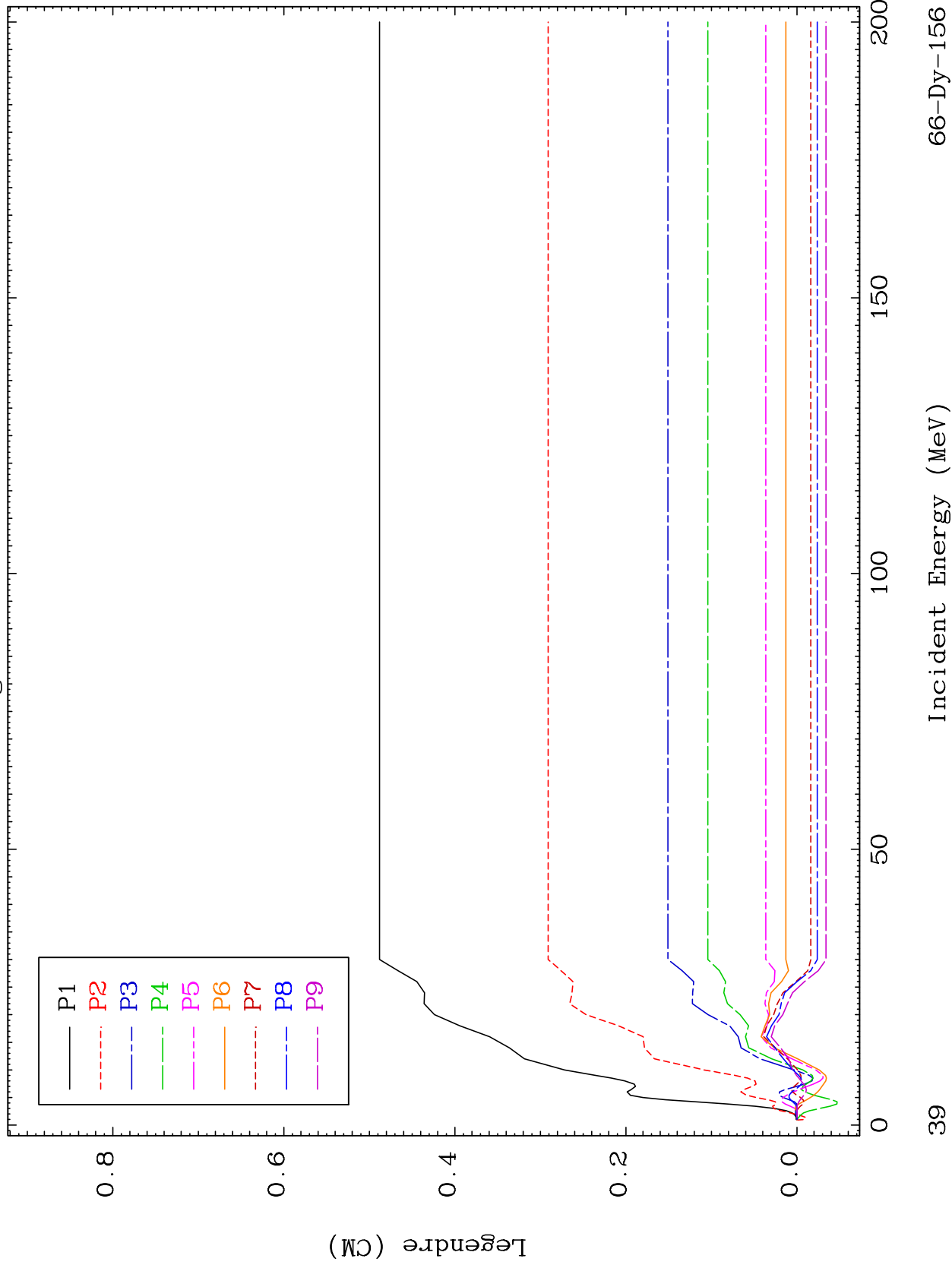
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156



39

Incident Energy (MeV)

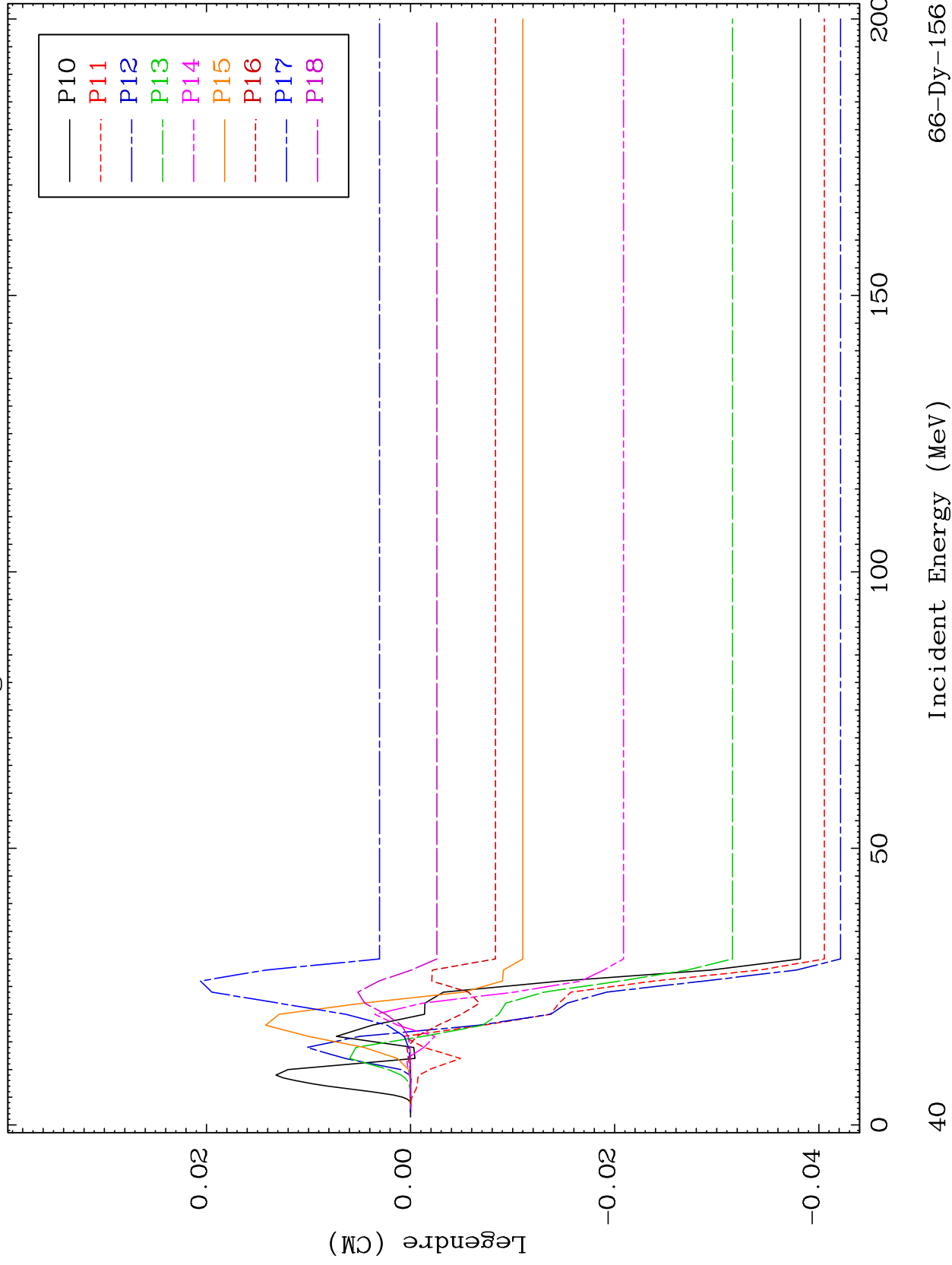
66-Dy-156



MAT 6625

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

66-Dy-156



66-Dy-156

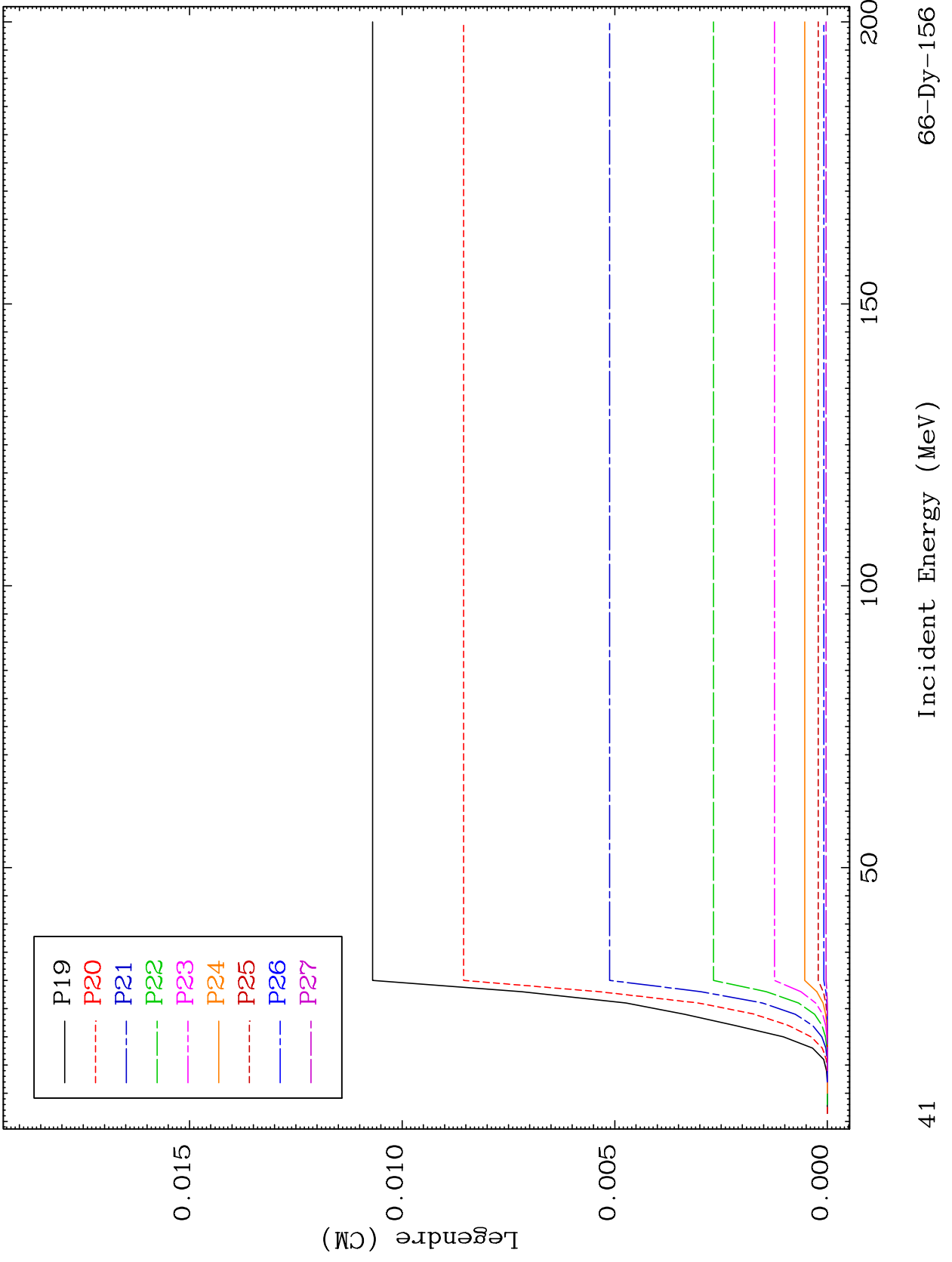
Incident Energy (MeV)

40

MAT 6625

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

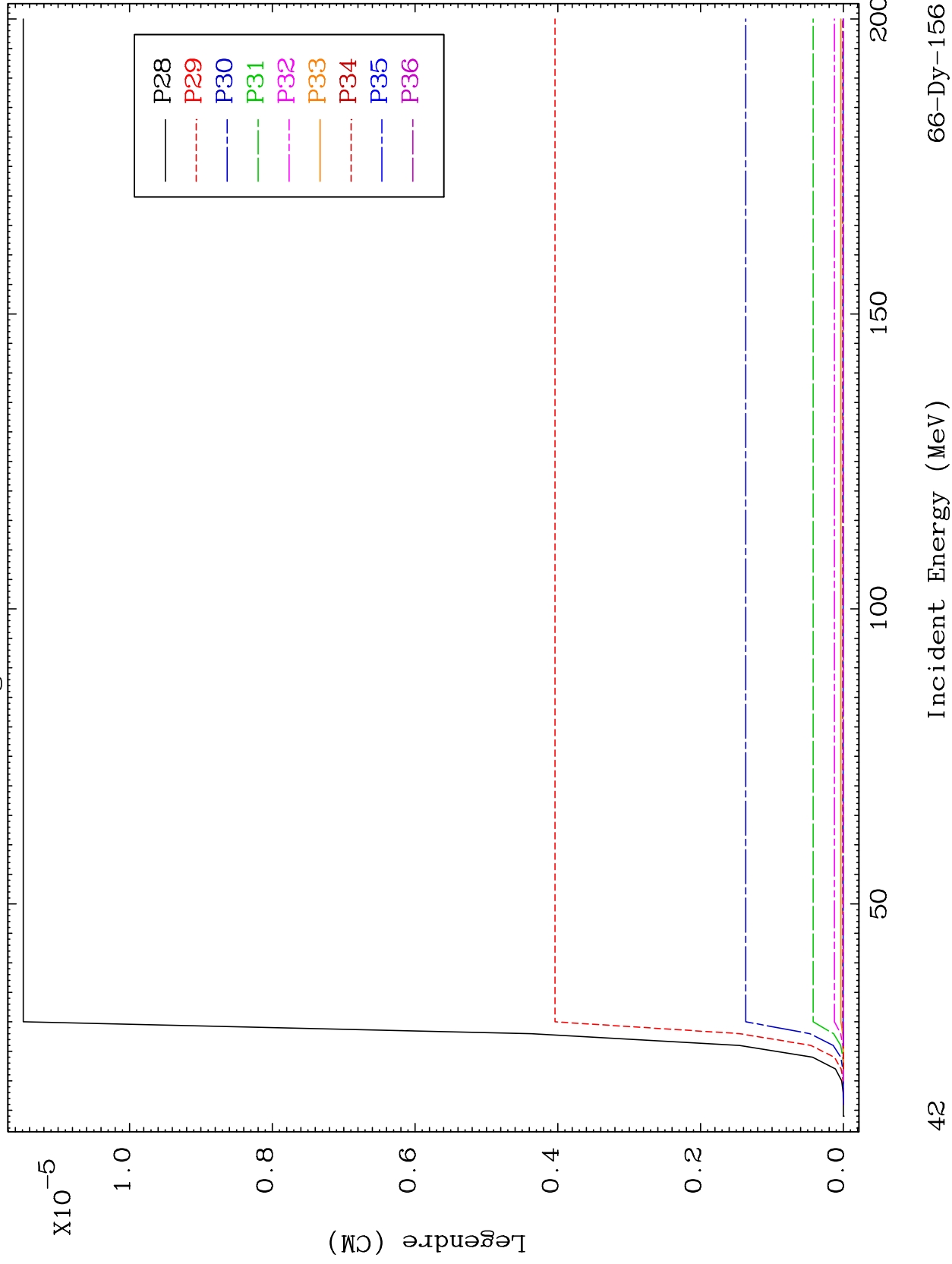
66-Dy-156



MAT 6625

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

66-Dy-156



42

Incident Energy (MeV)

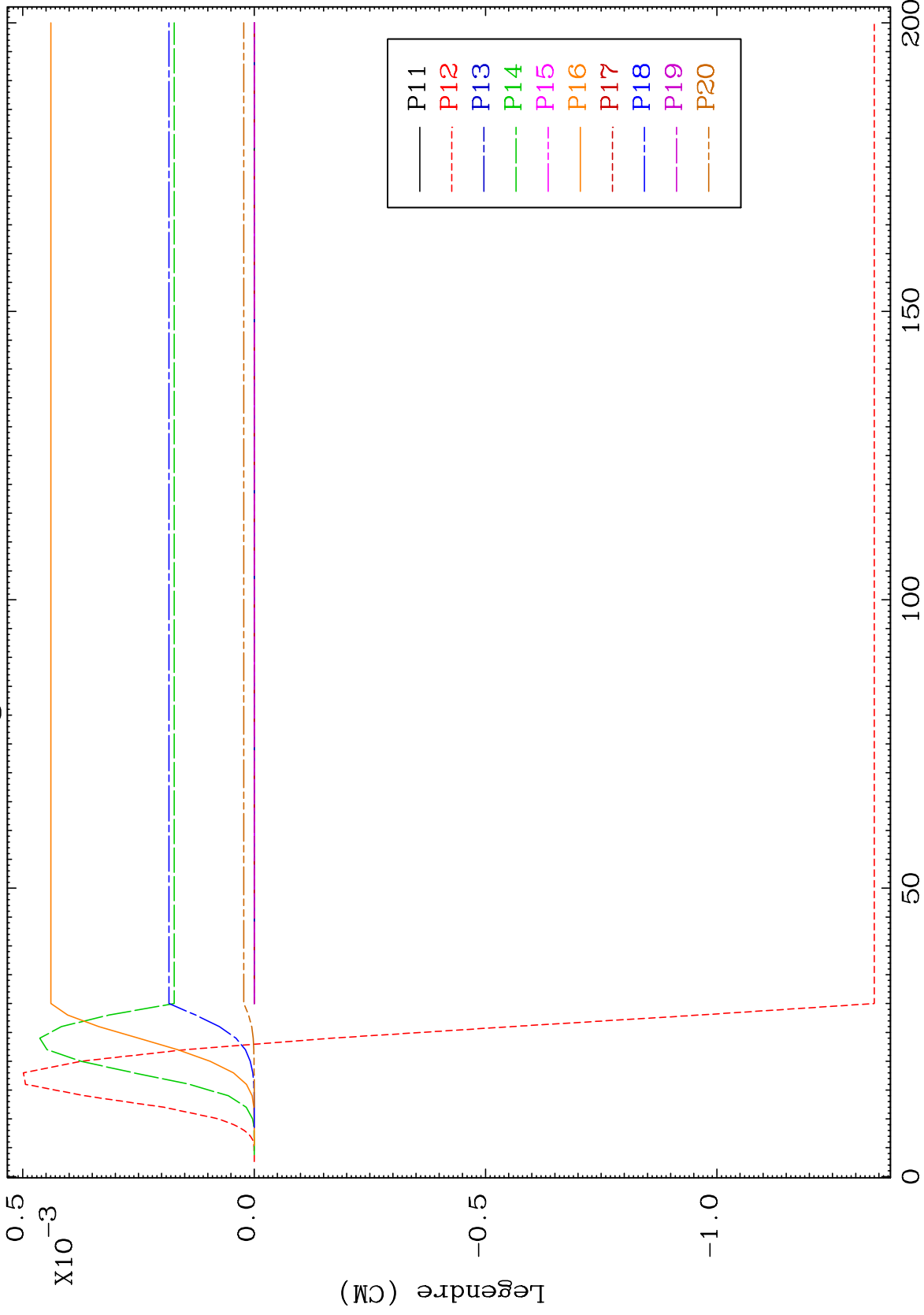
66-Dy-156



MAT 6625

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

66-Dy-156



44

Incident Energy (MeV)

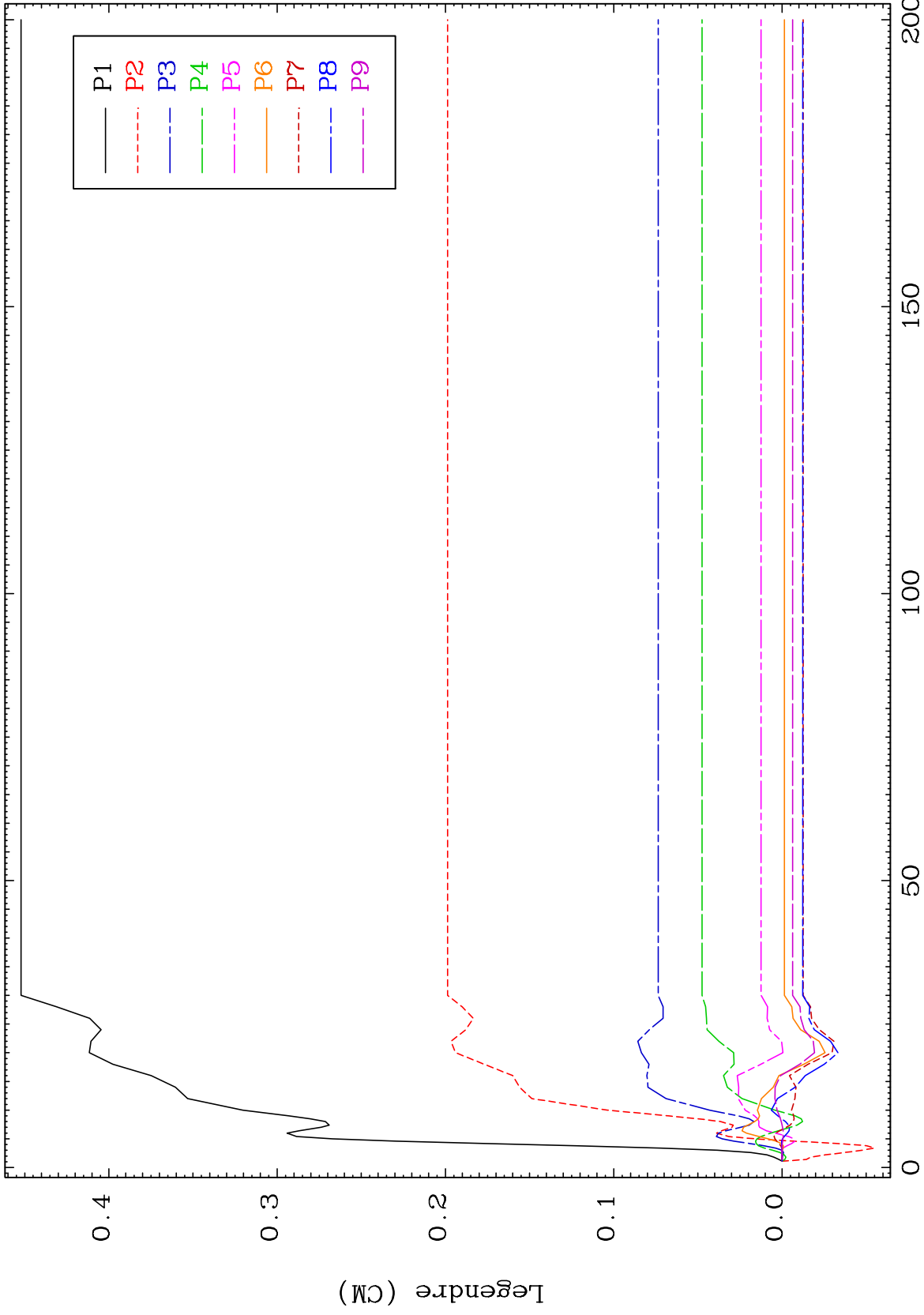
66-Dy-156



MAT 6625

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

66-Dy-156



46

Incident Energy (MeV)

66-Dy-156

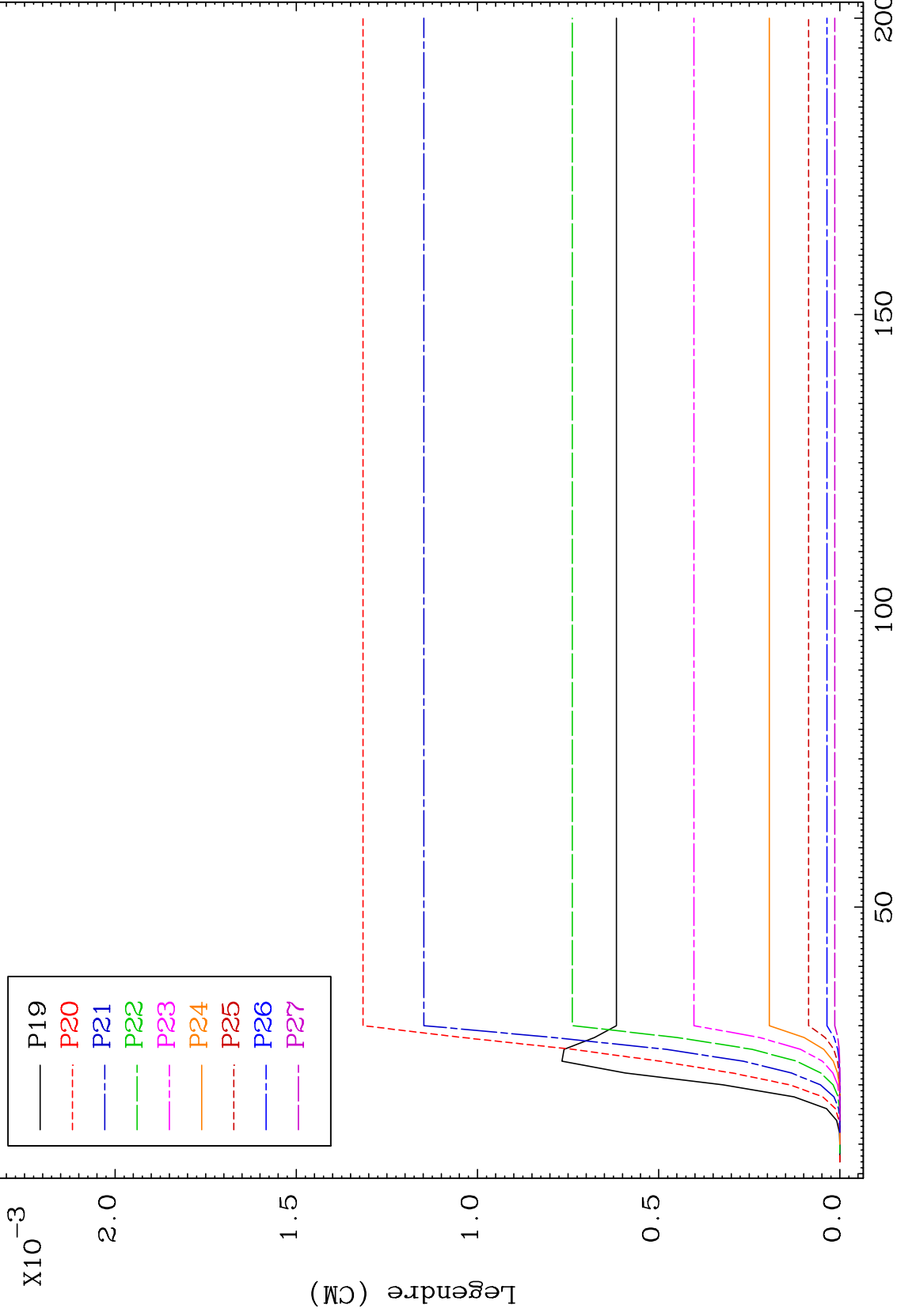
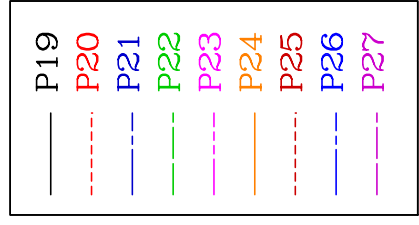




MAT 6625

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

66-Dy-156



48

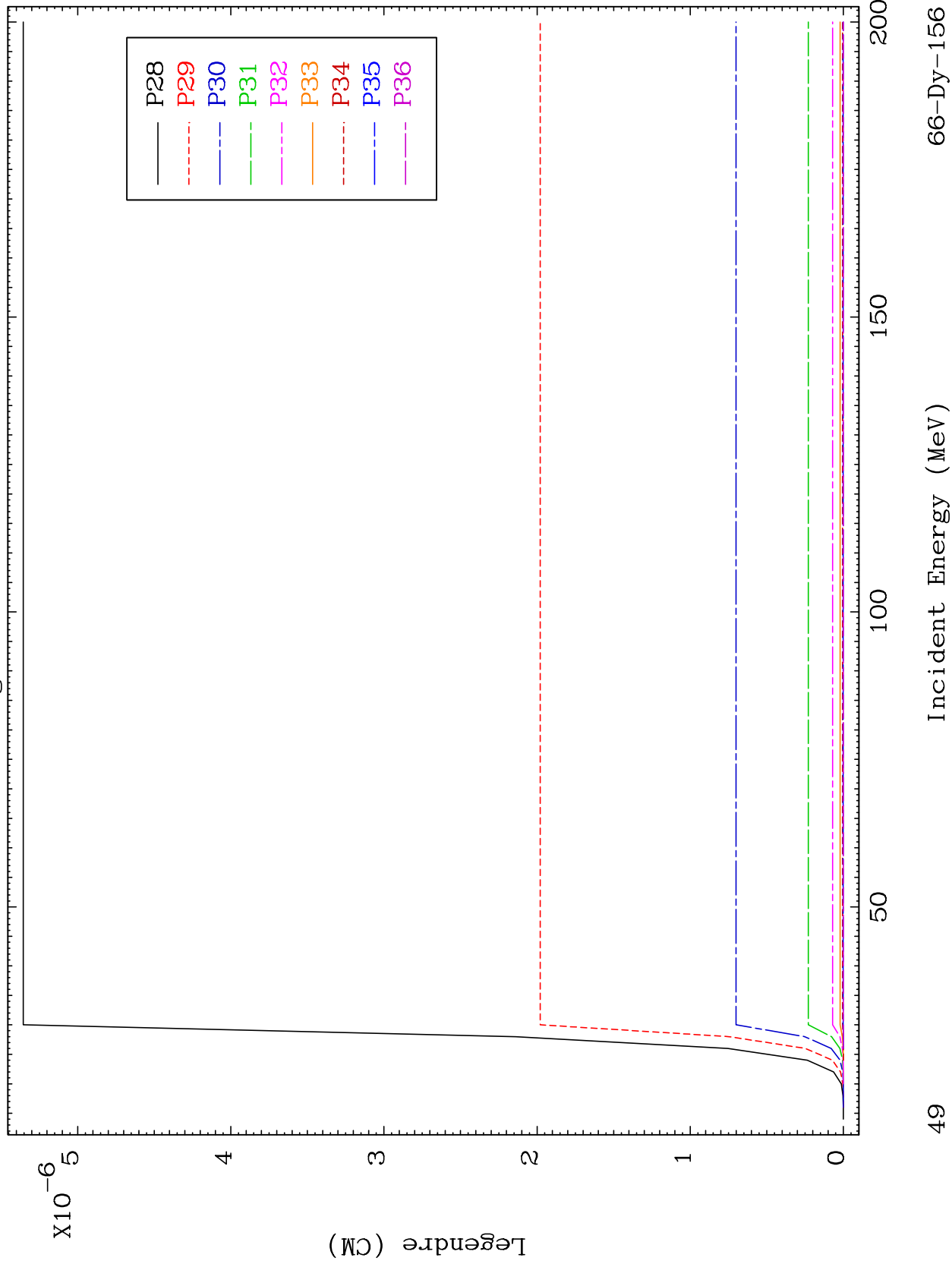
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156

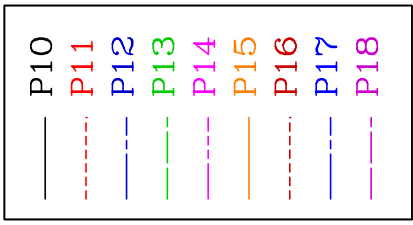
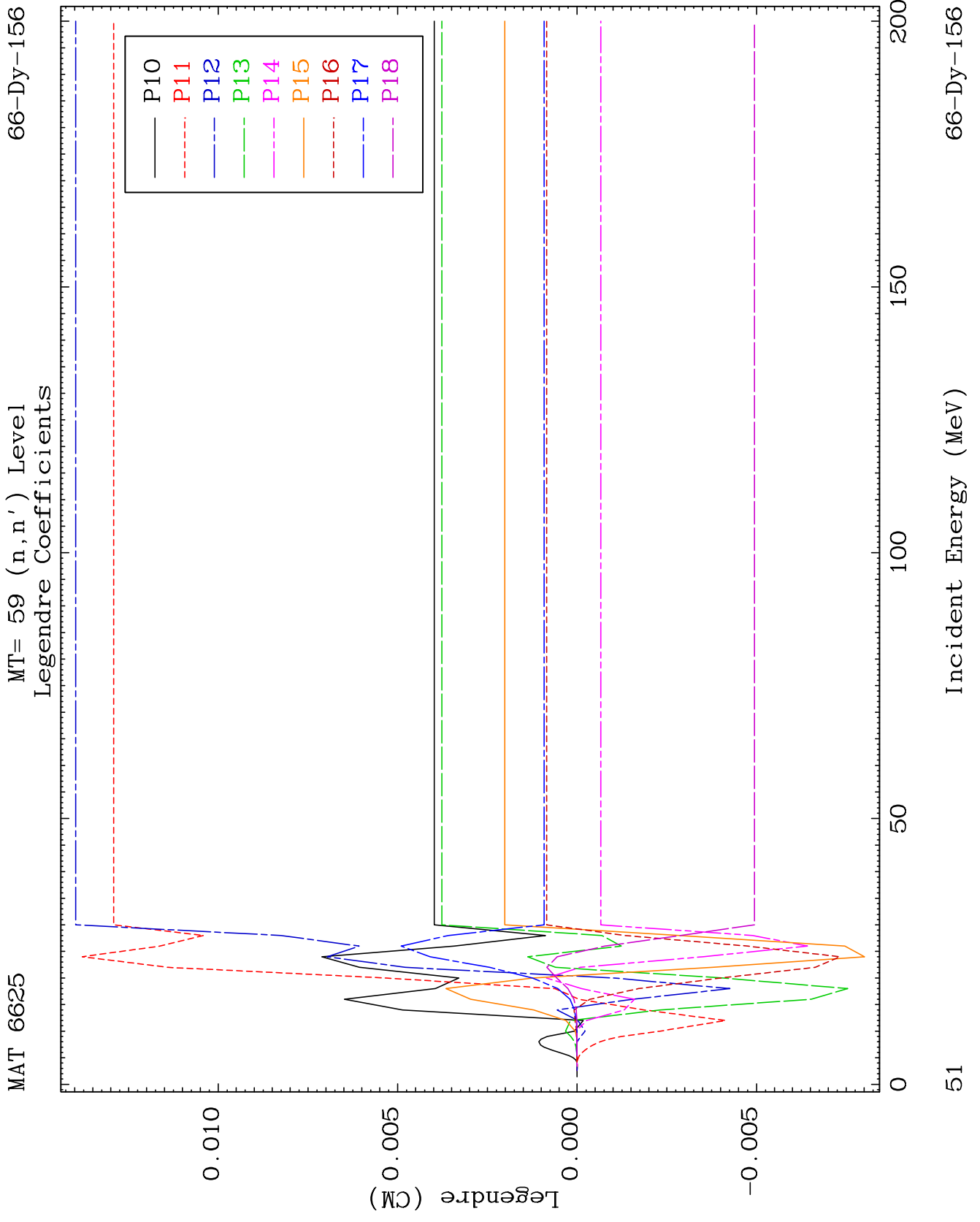


49

Incident Energy (MeV)

66-Dy-156

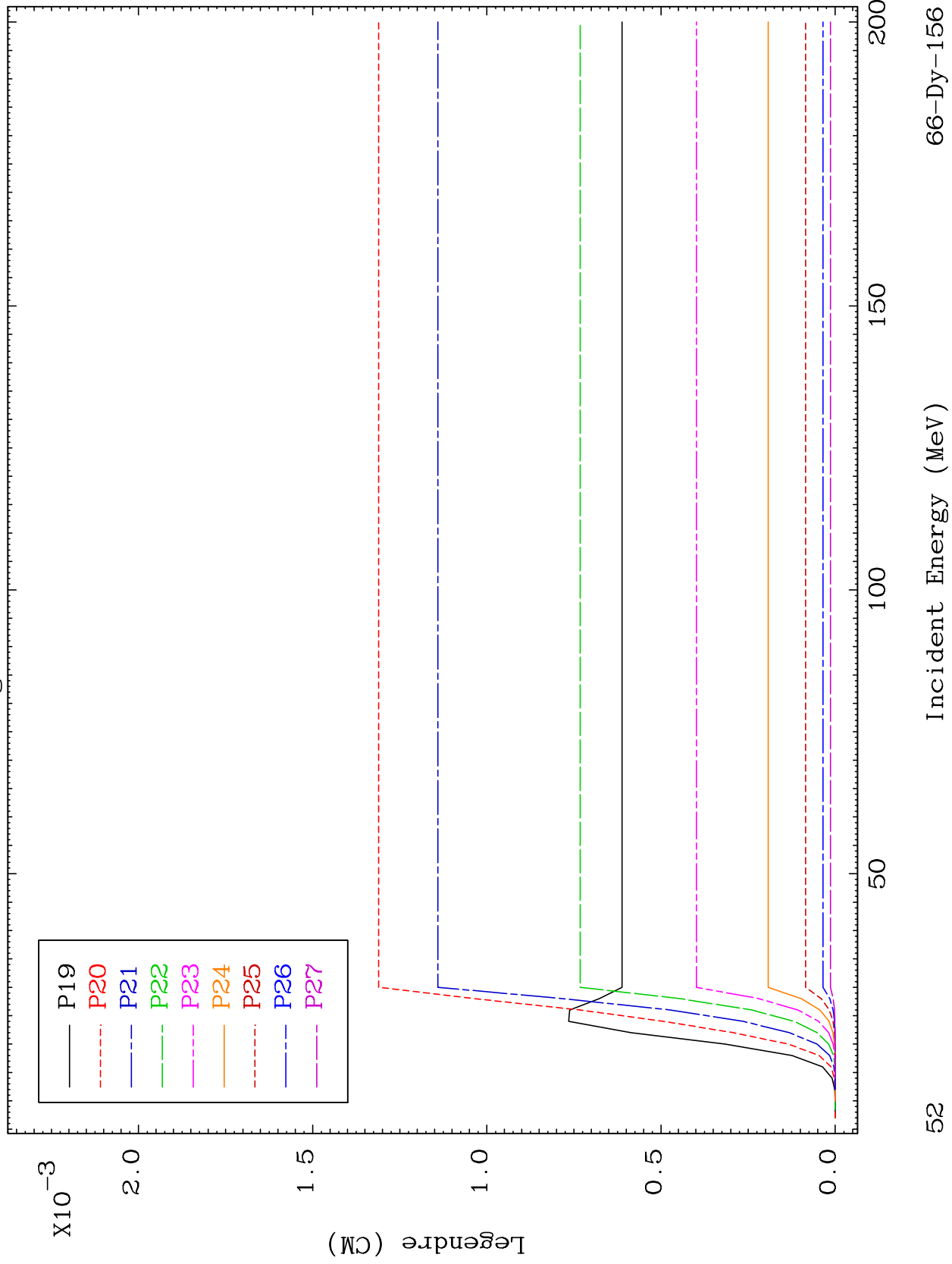




MAT 6625

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

66-Dy-156



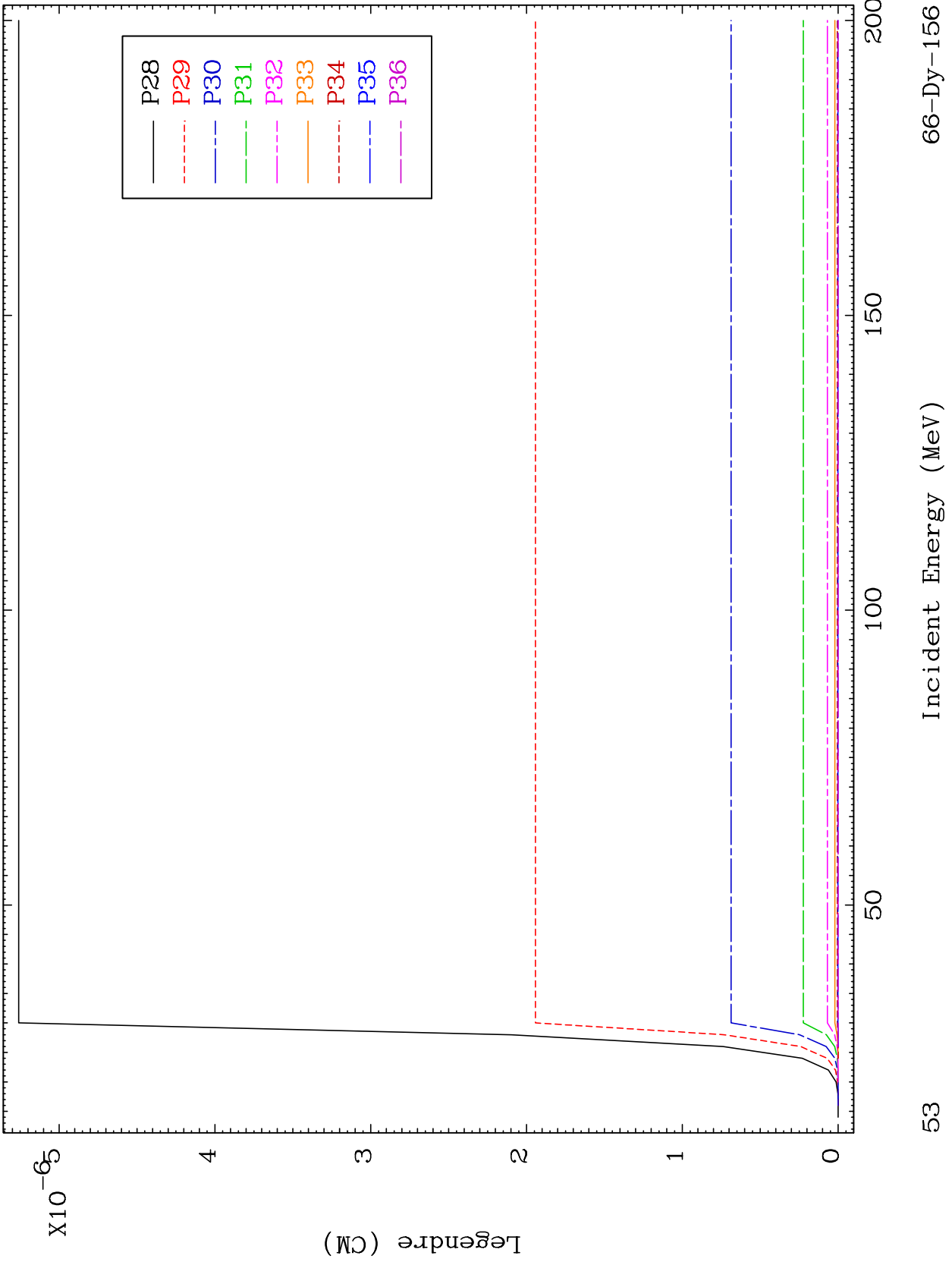
52

66-Dy-156

MAT 6625

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

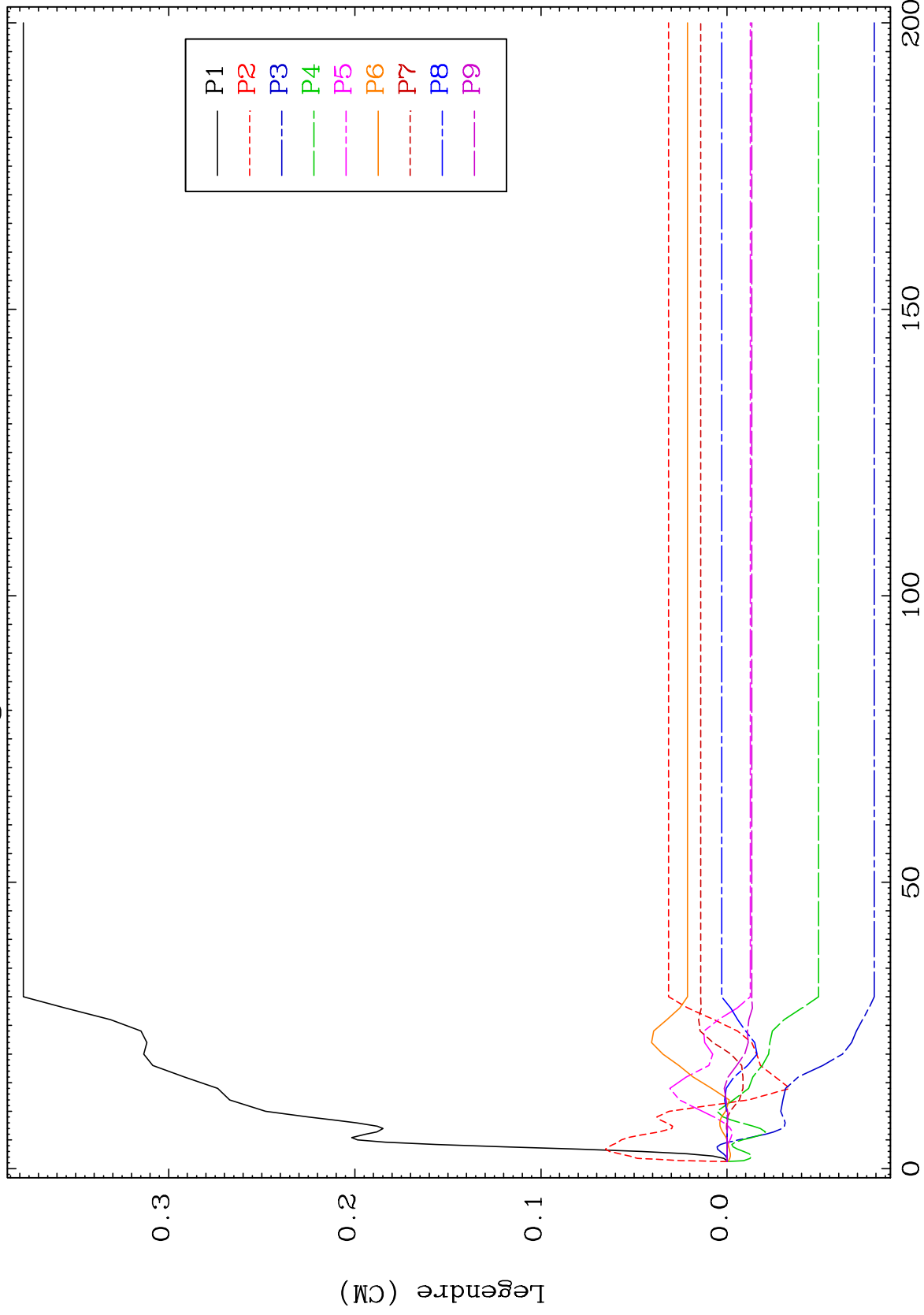
66-Dy-156



MAT 6625

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

66-Dy-156



54

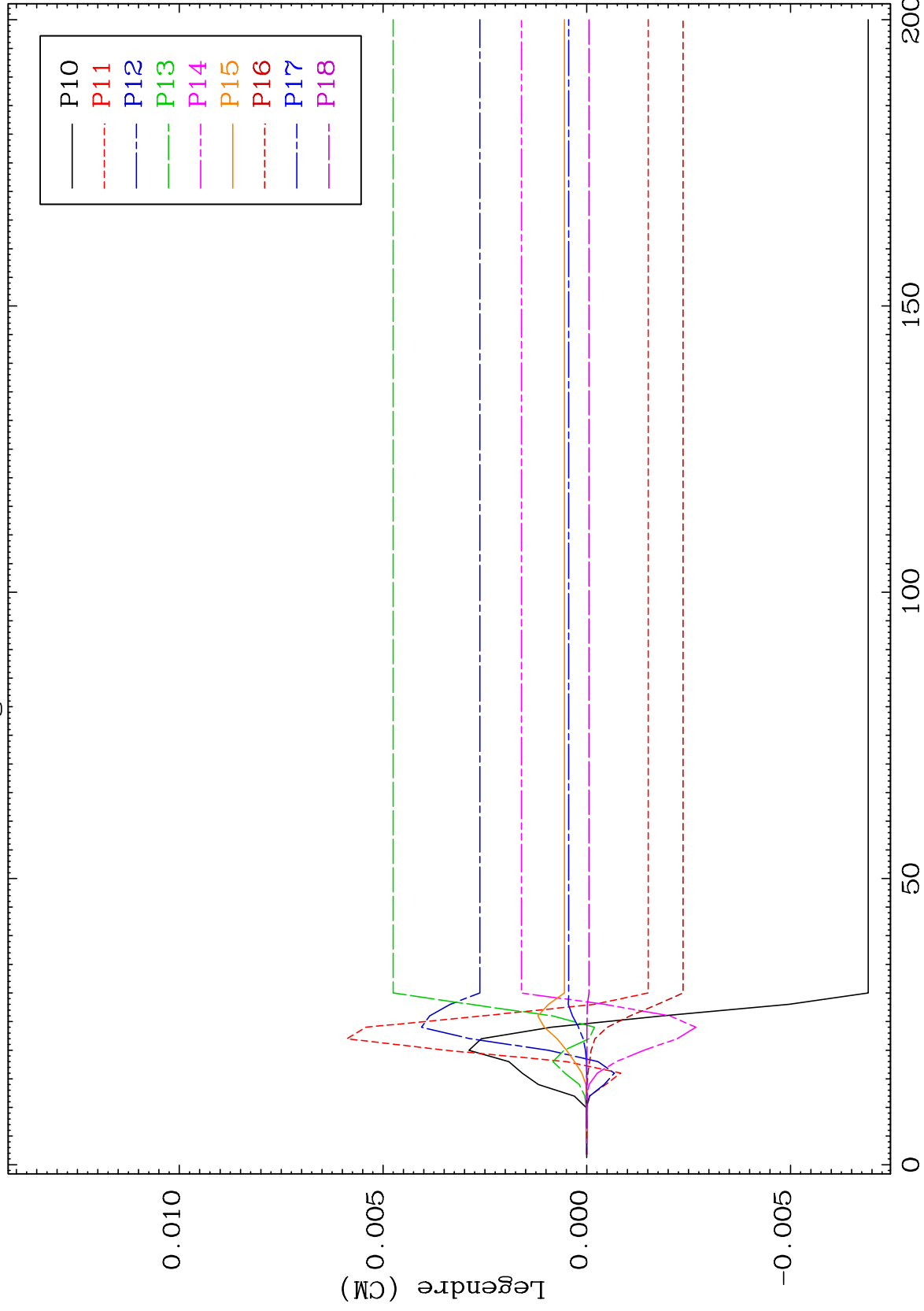
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156



55

Incident Energy (MeV)

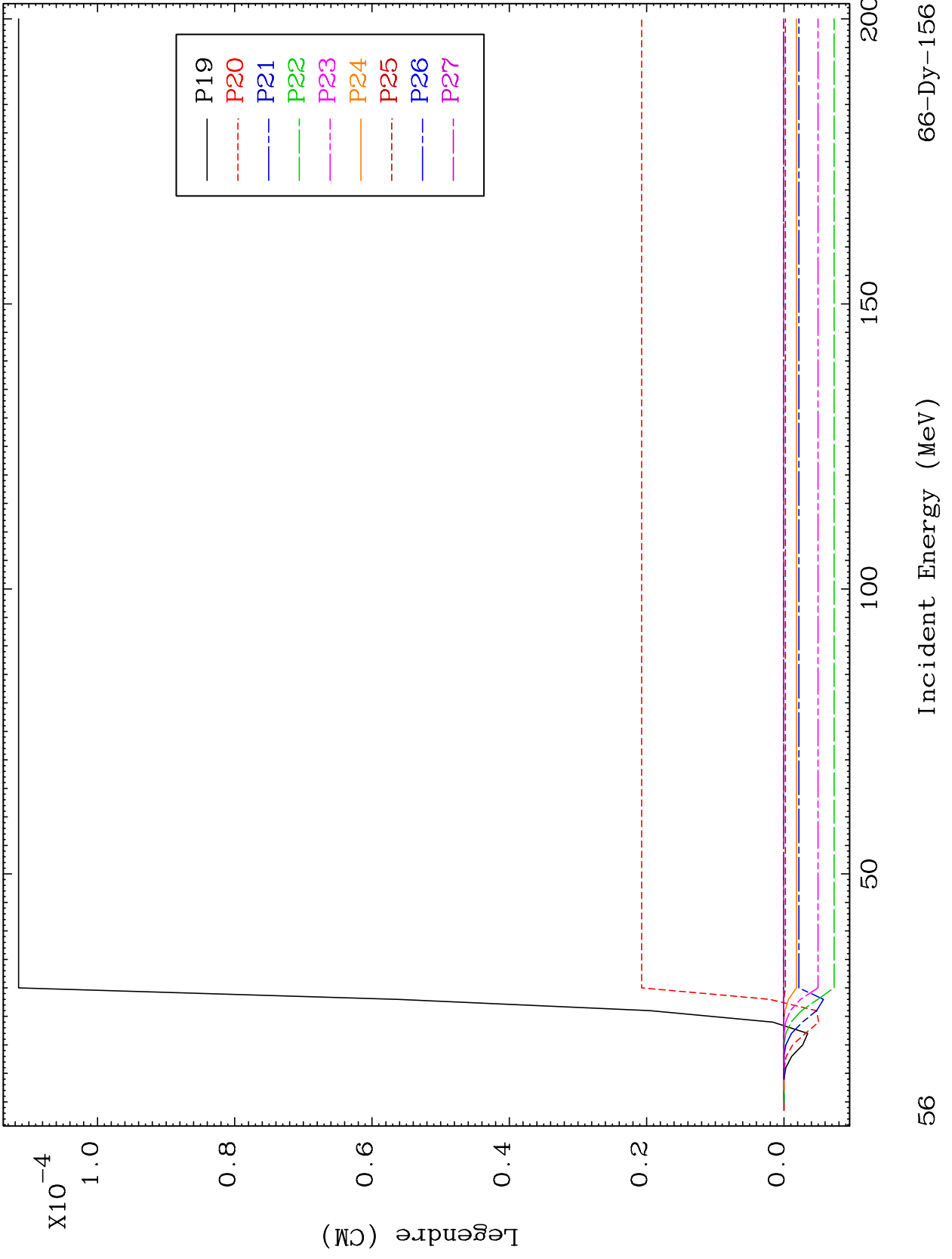
66-Dy-156



MAT 6625

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

66-Dy-156



56

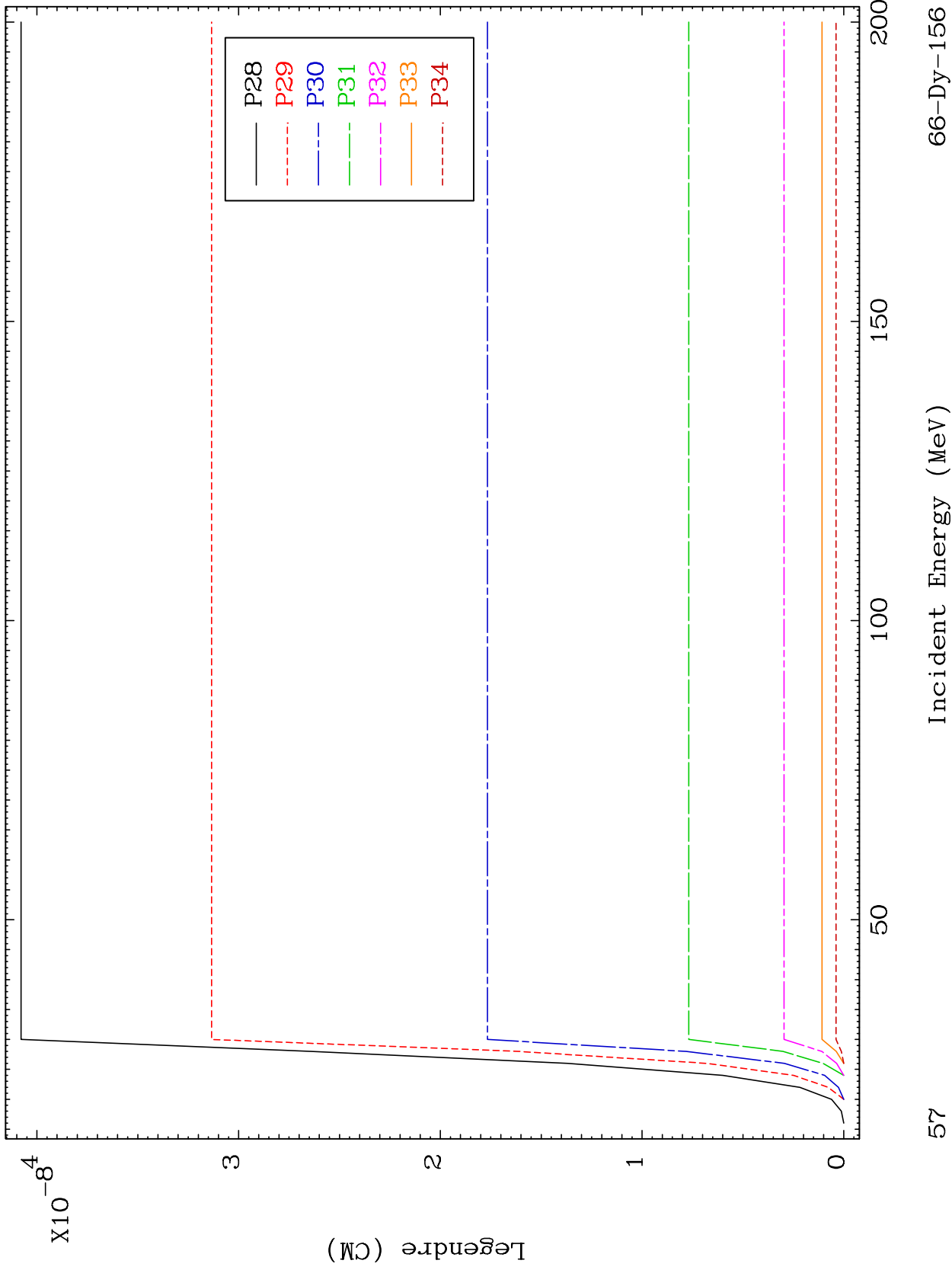
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

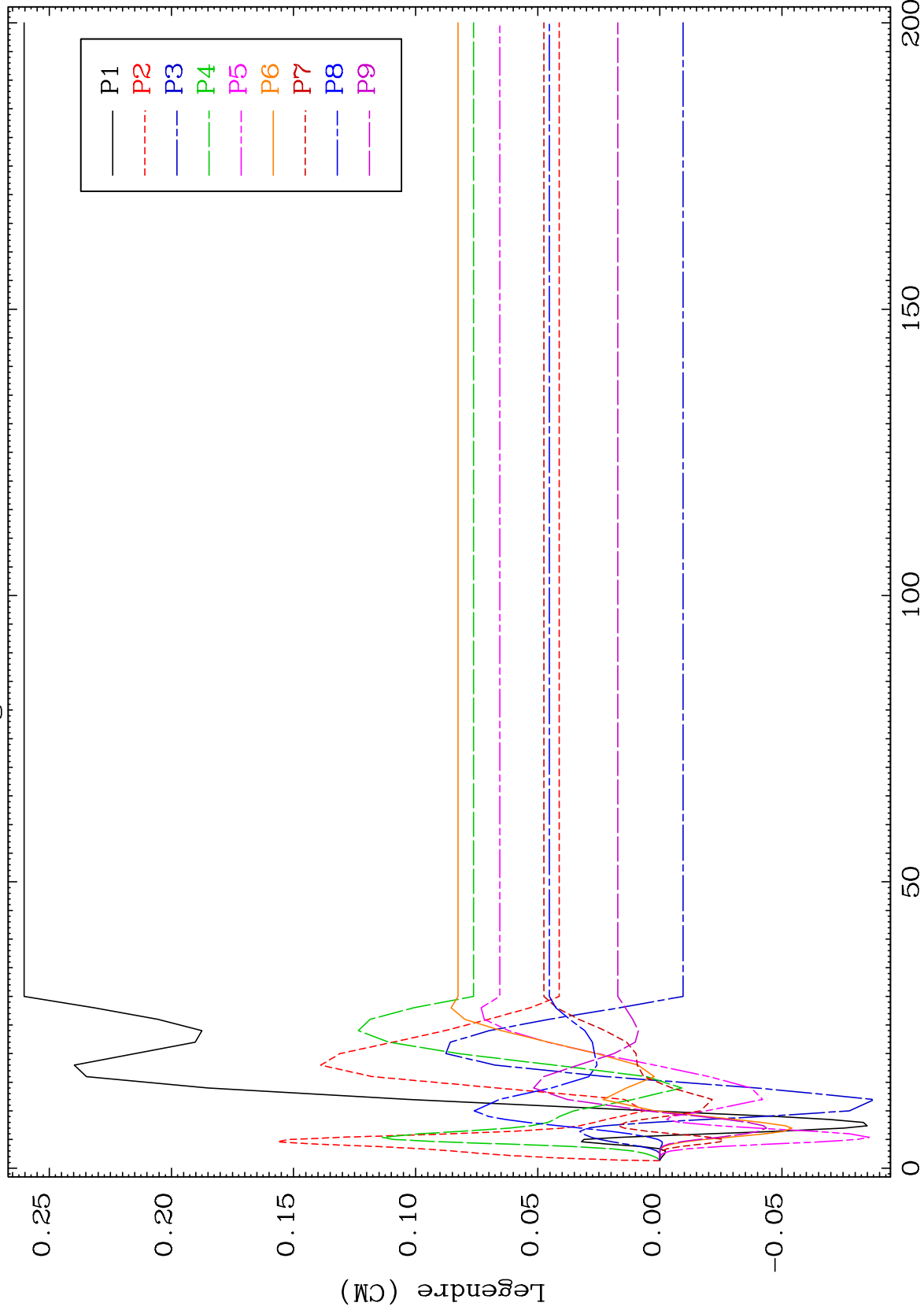
66-Dy-156



MAT 6625

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

66-Dy-156



58

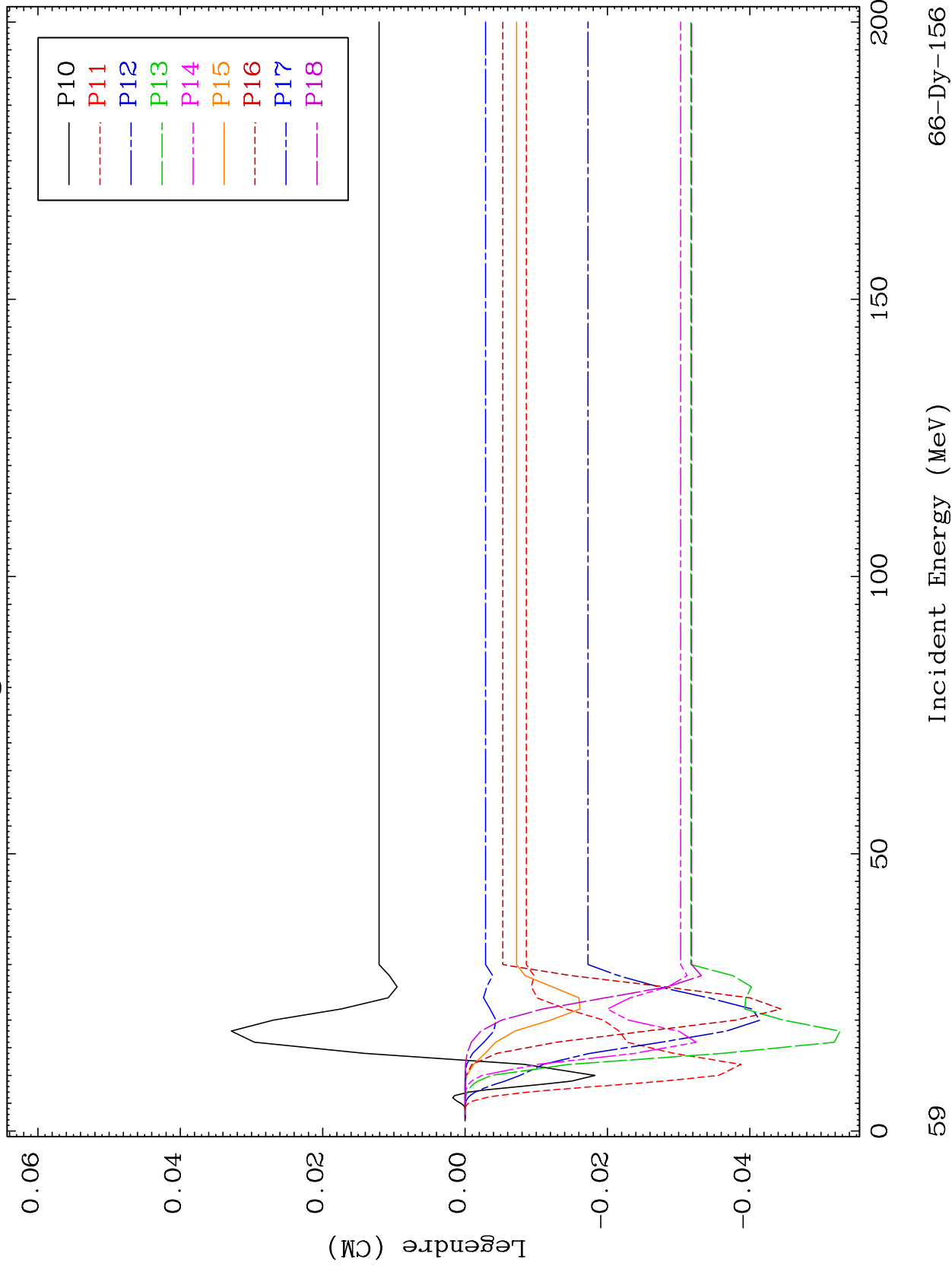
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

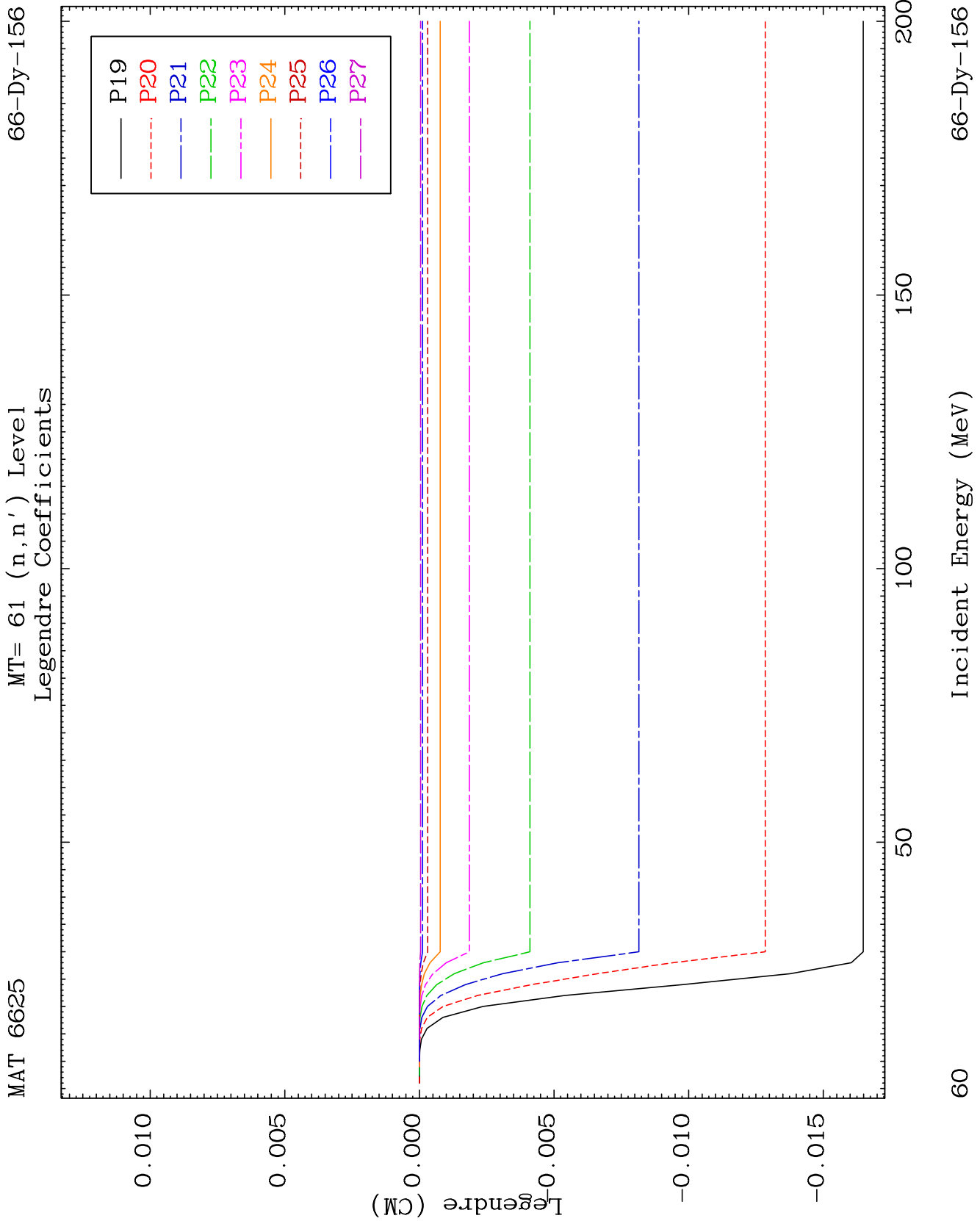
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66-Dy-156

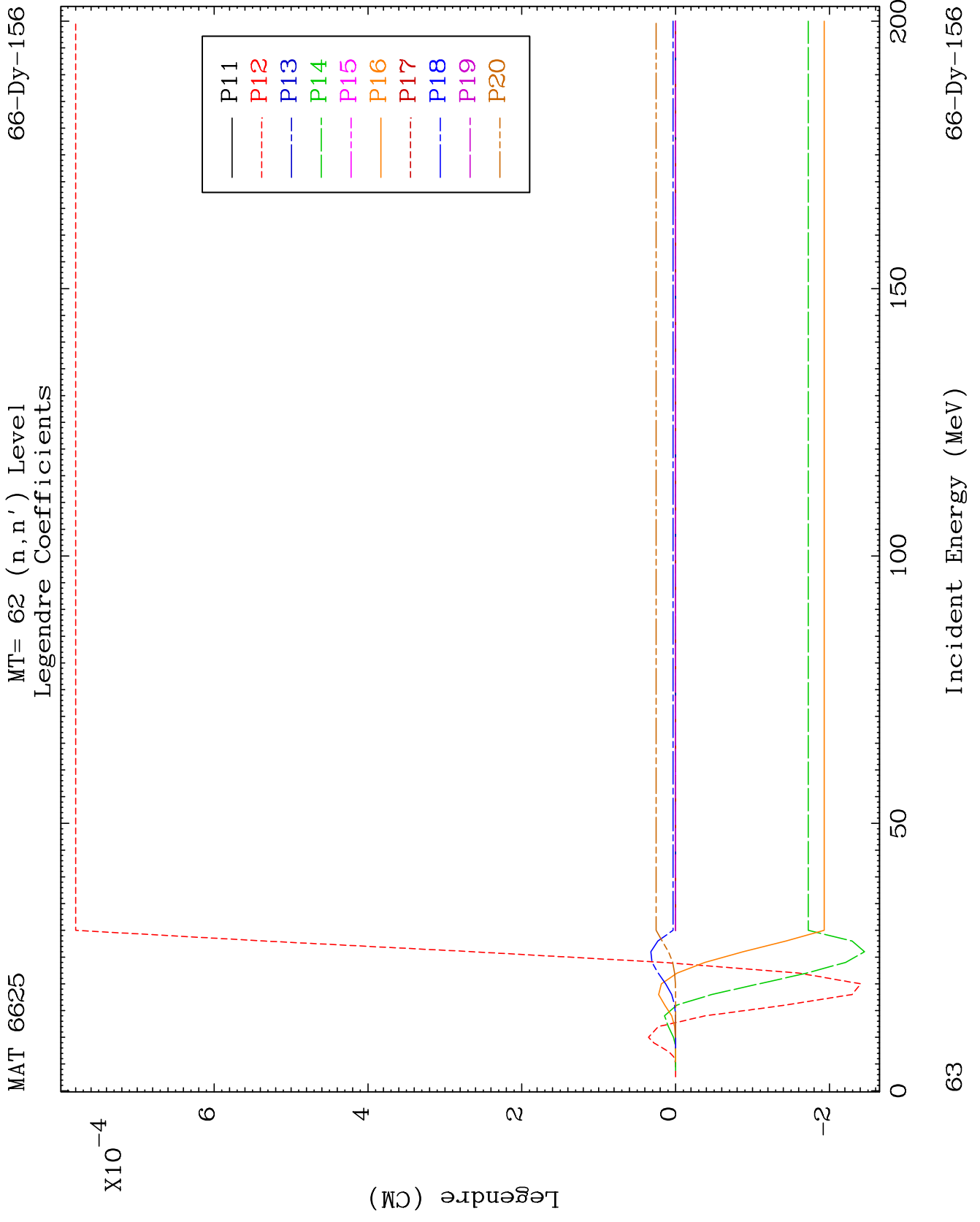
Incident Energy (MeV)

59

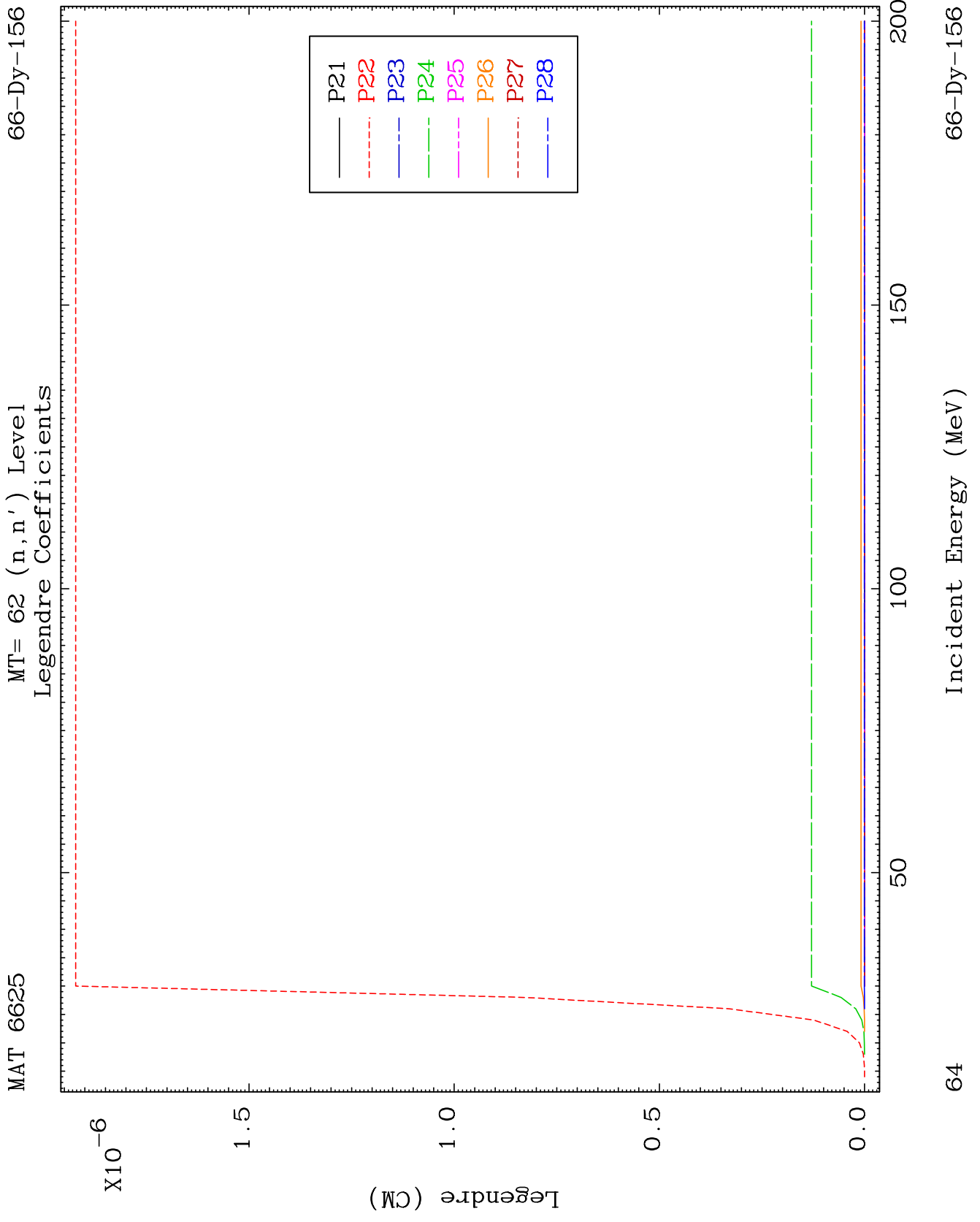








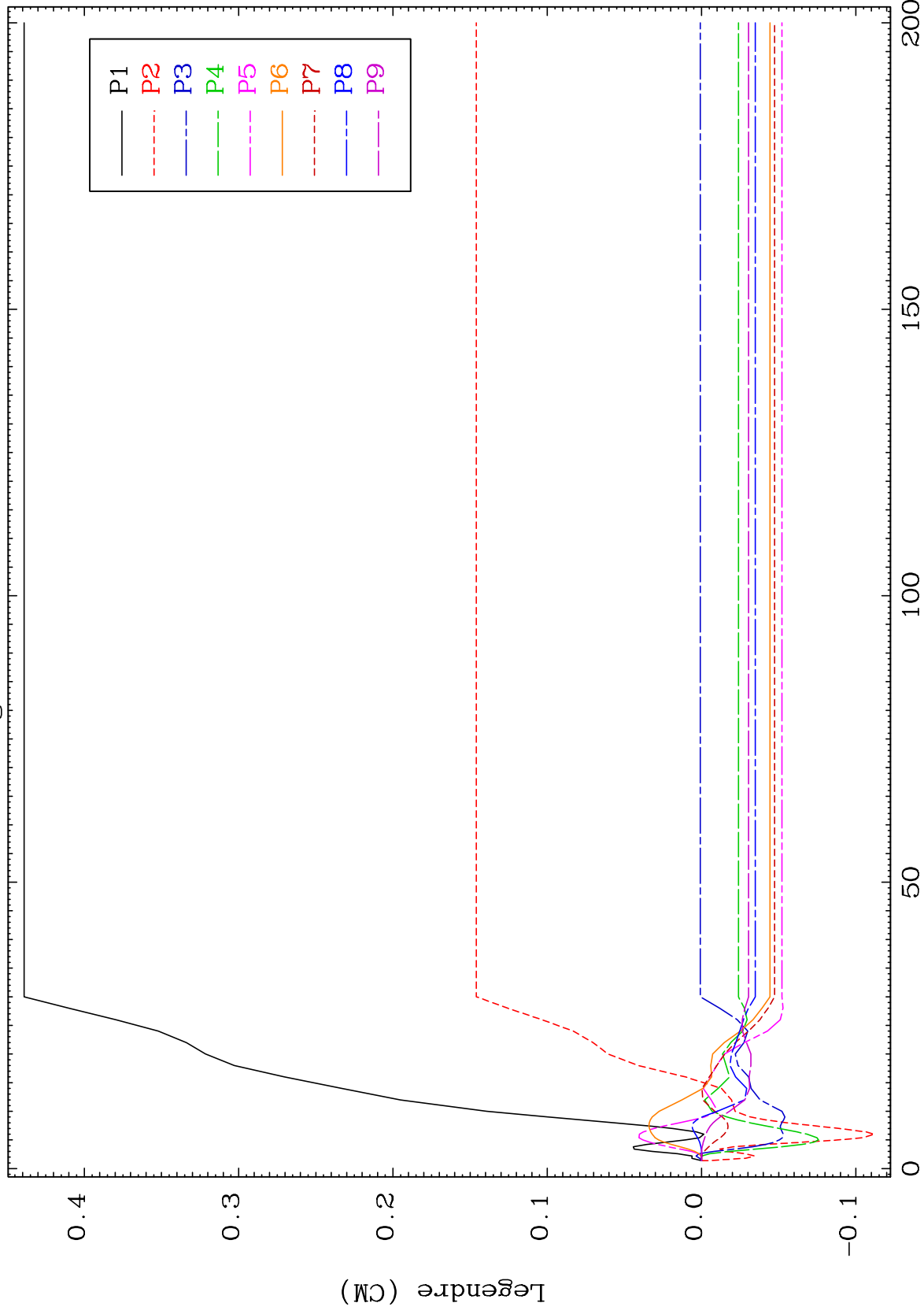




MAT 6625

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

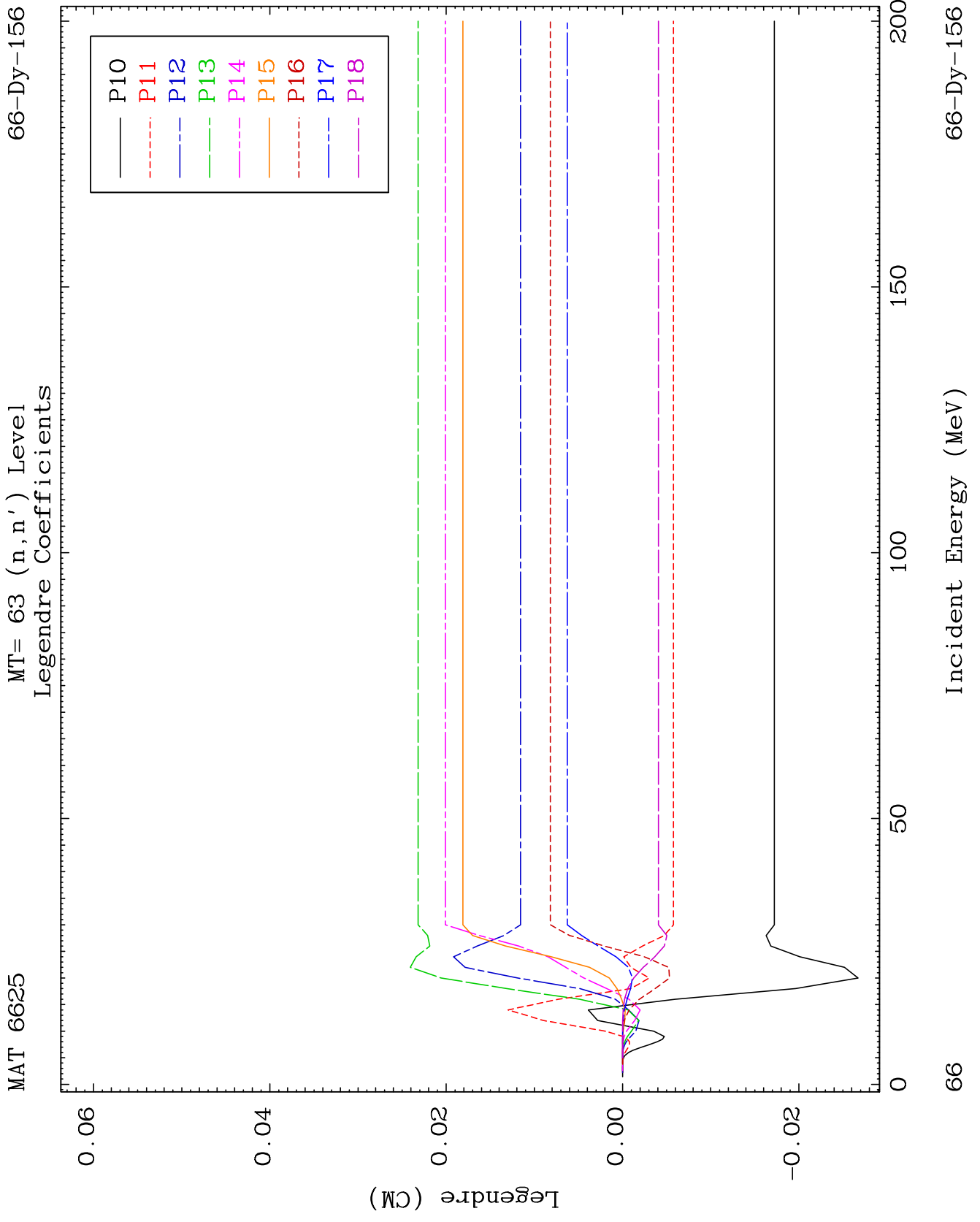
66-Dy-156



66-Dy-156

Incident Energy (MeV)

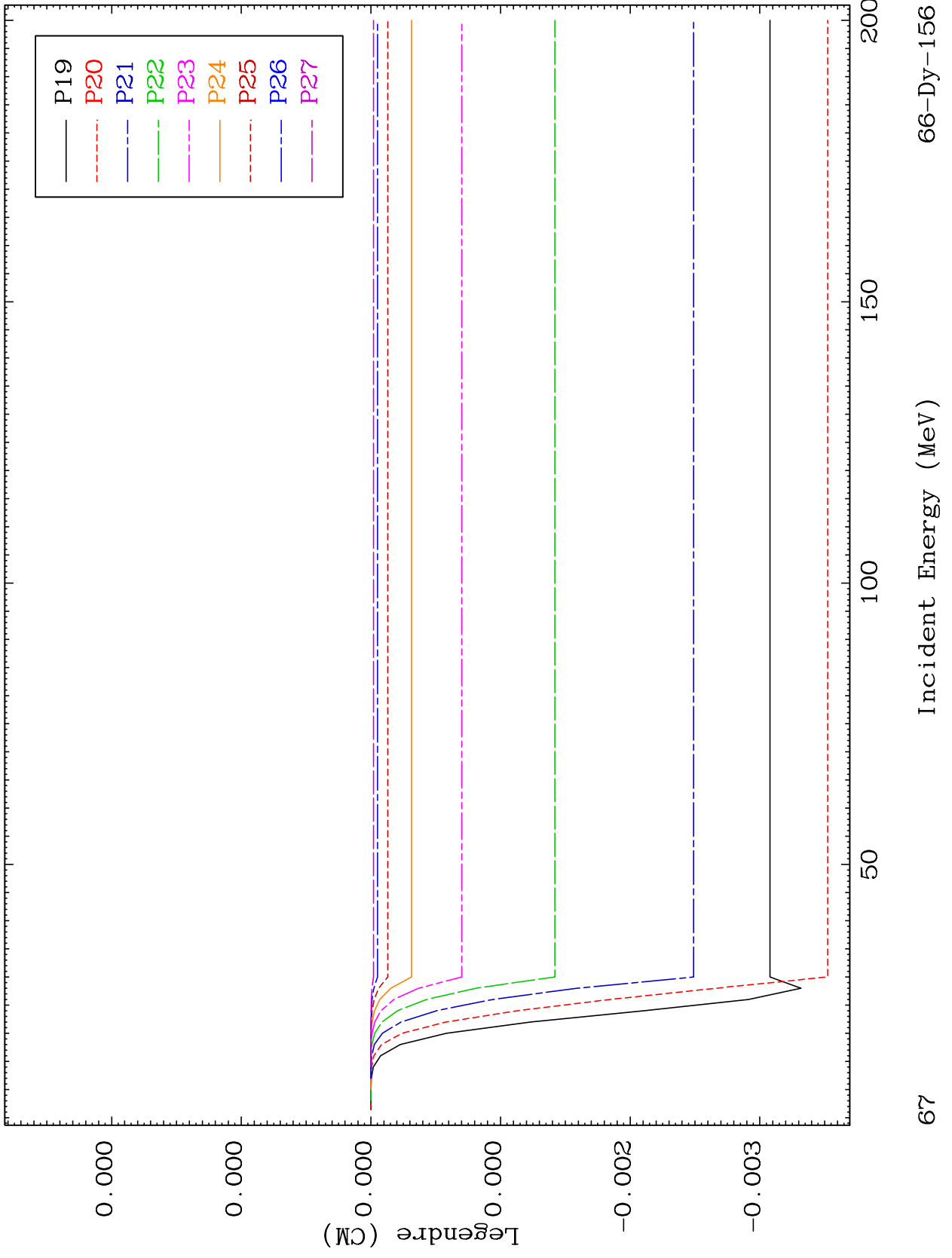
65



MAT 6625

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

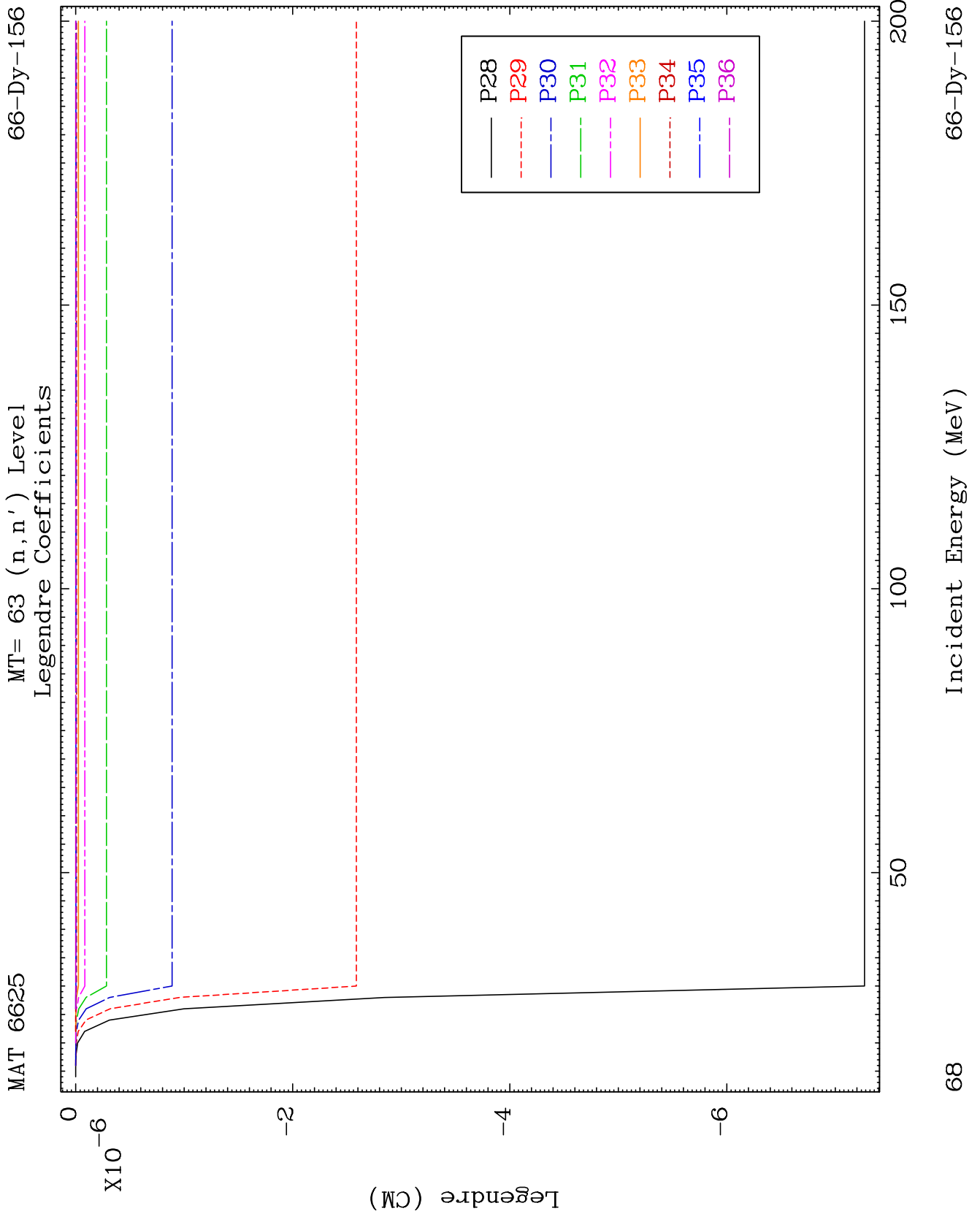
66-Dy-156



67

Incident Energy (MeV)

66-Dy-156

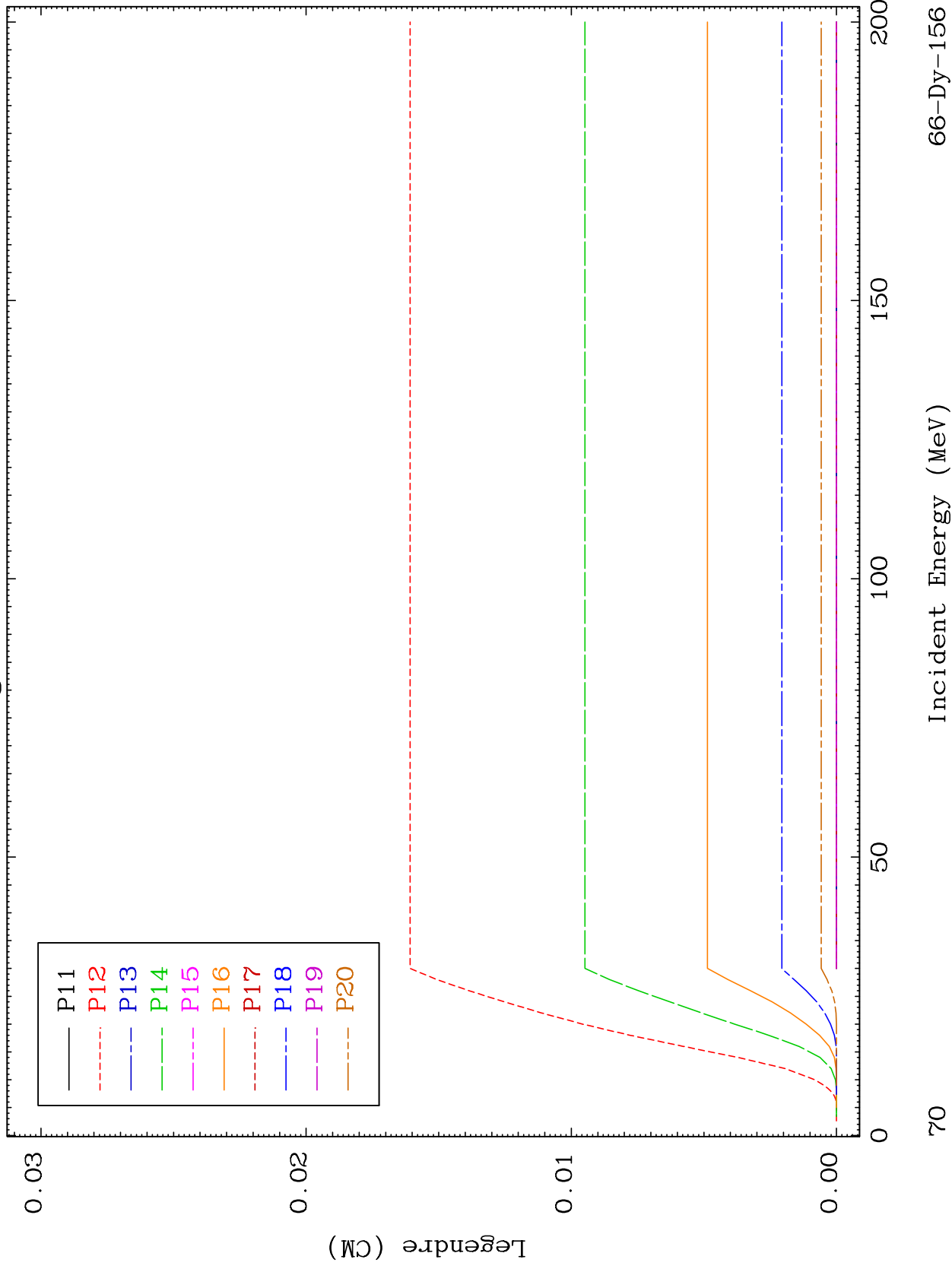




MAT 6625

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

66-Dy-156



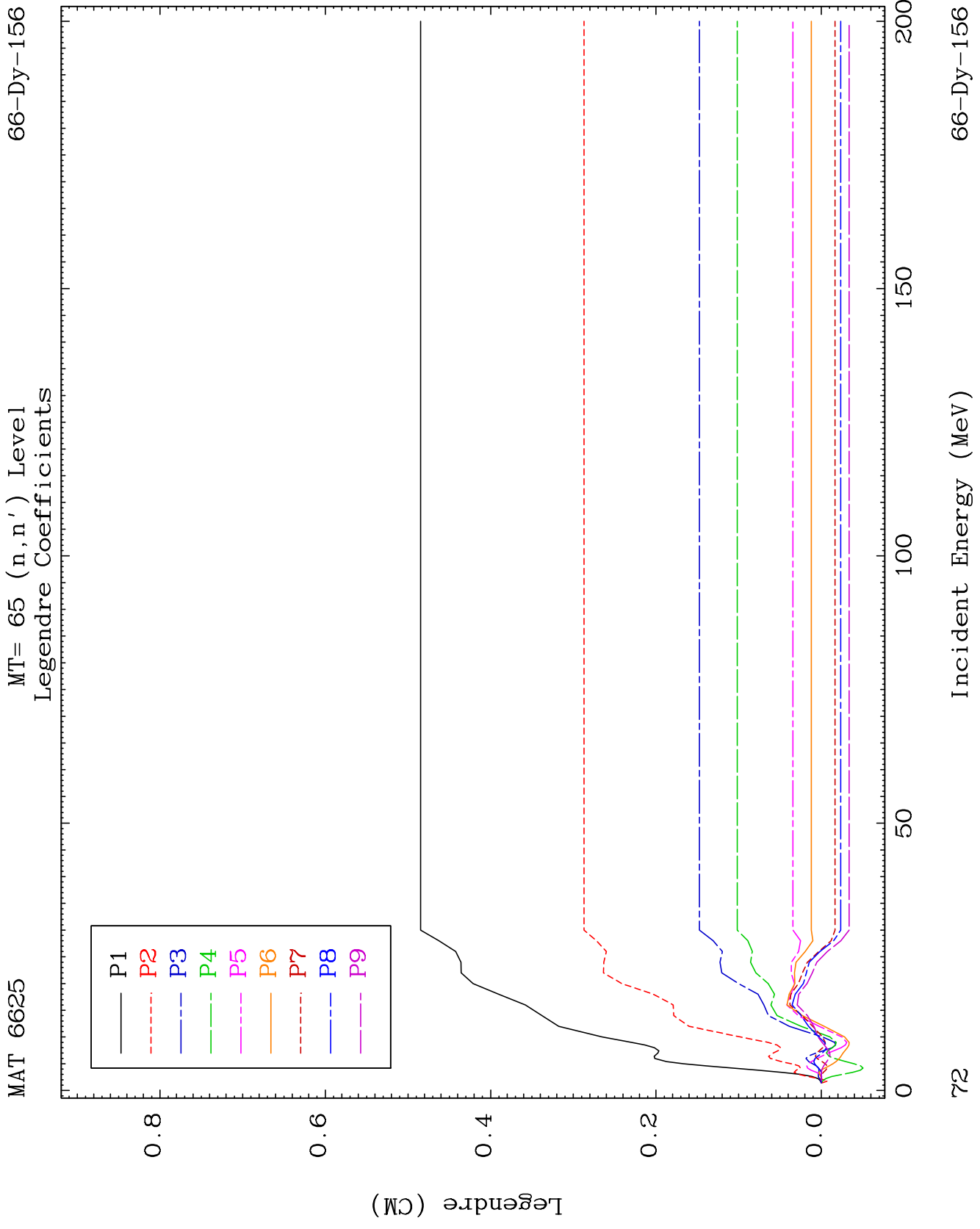
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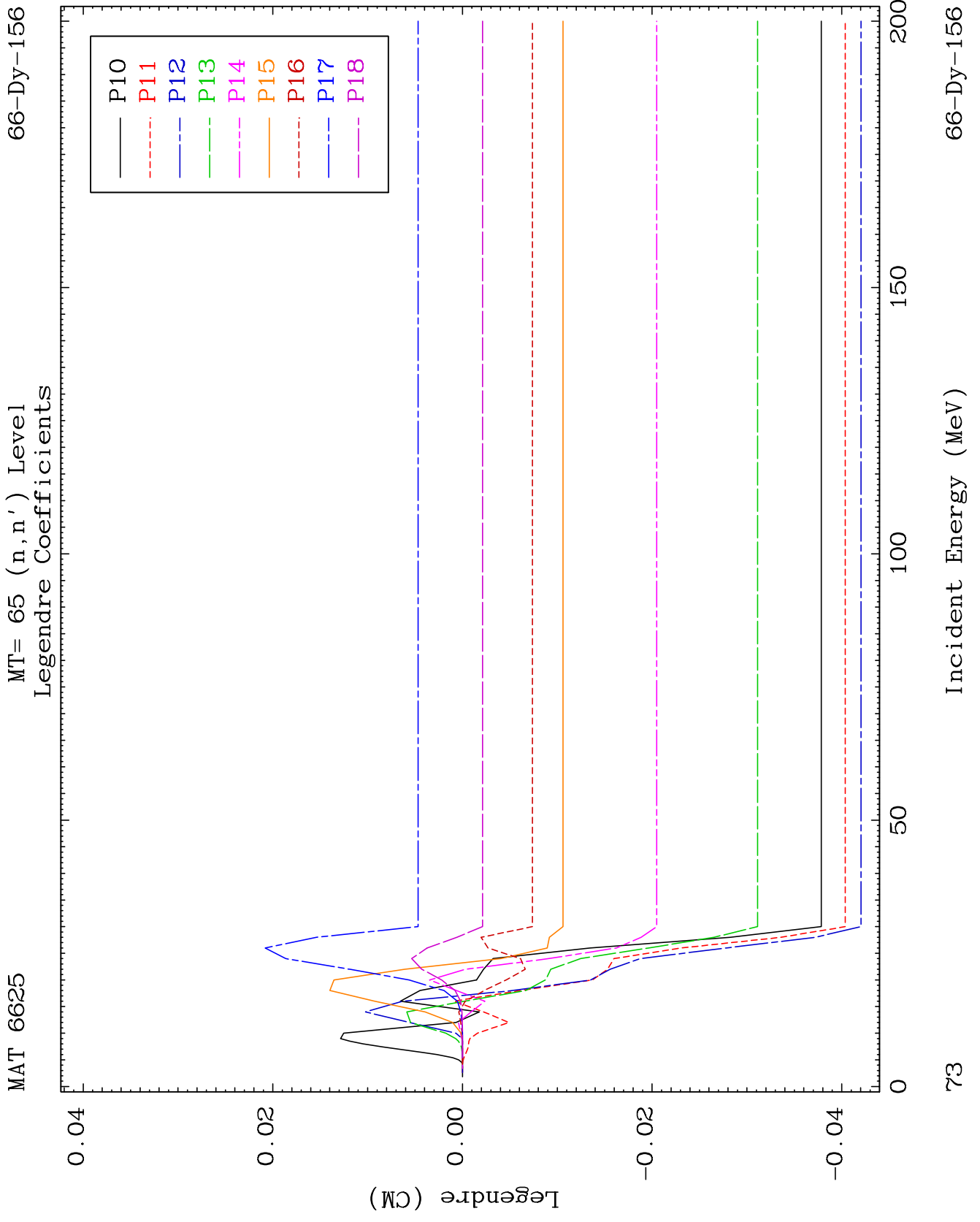
Incident Energy (MeV)

70





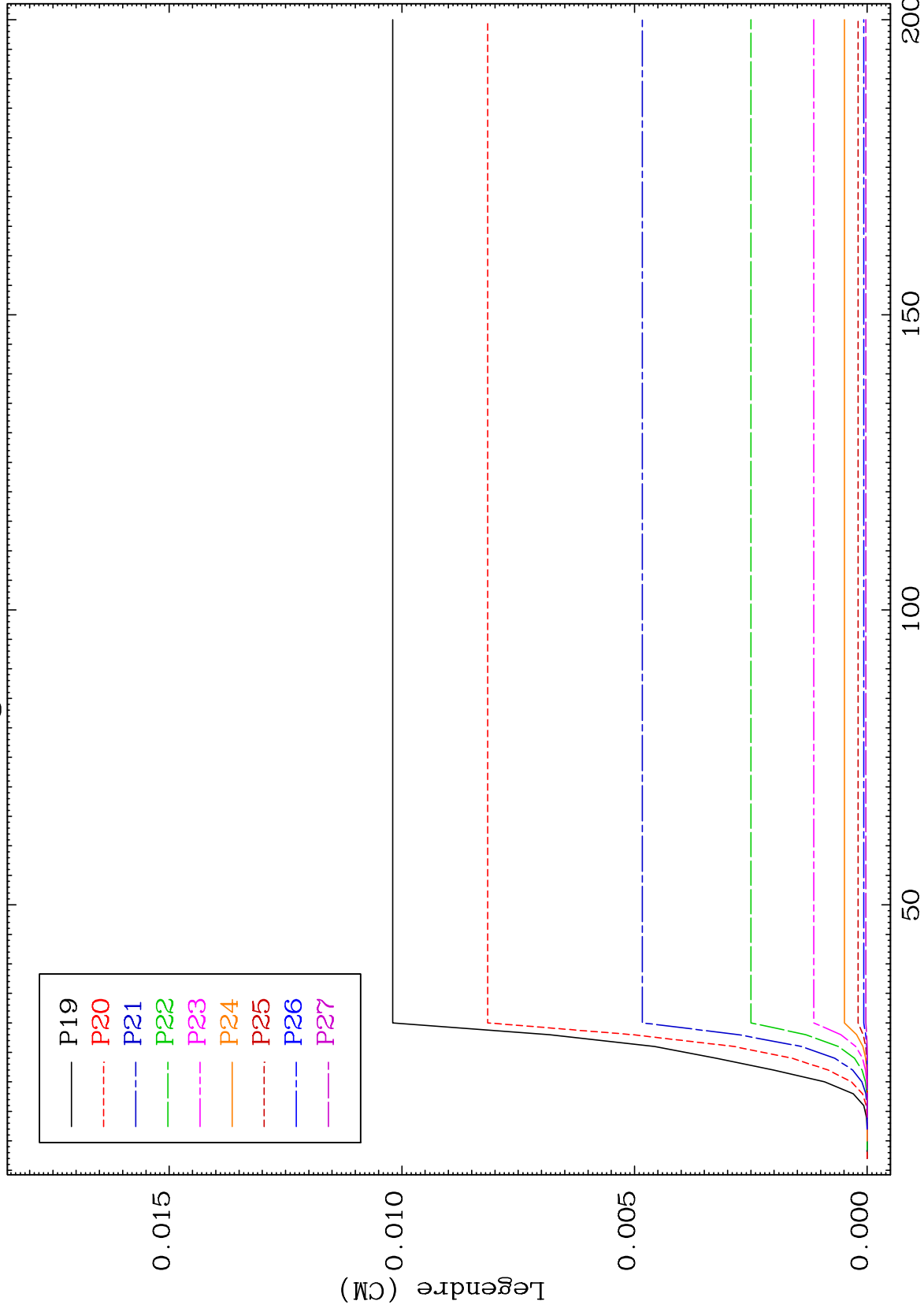




MAT 6625

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

66-Dy-156



74

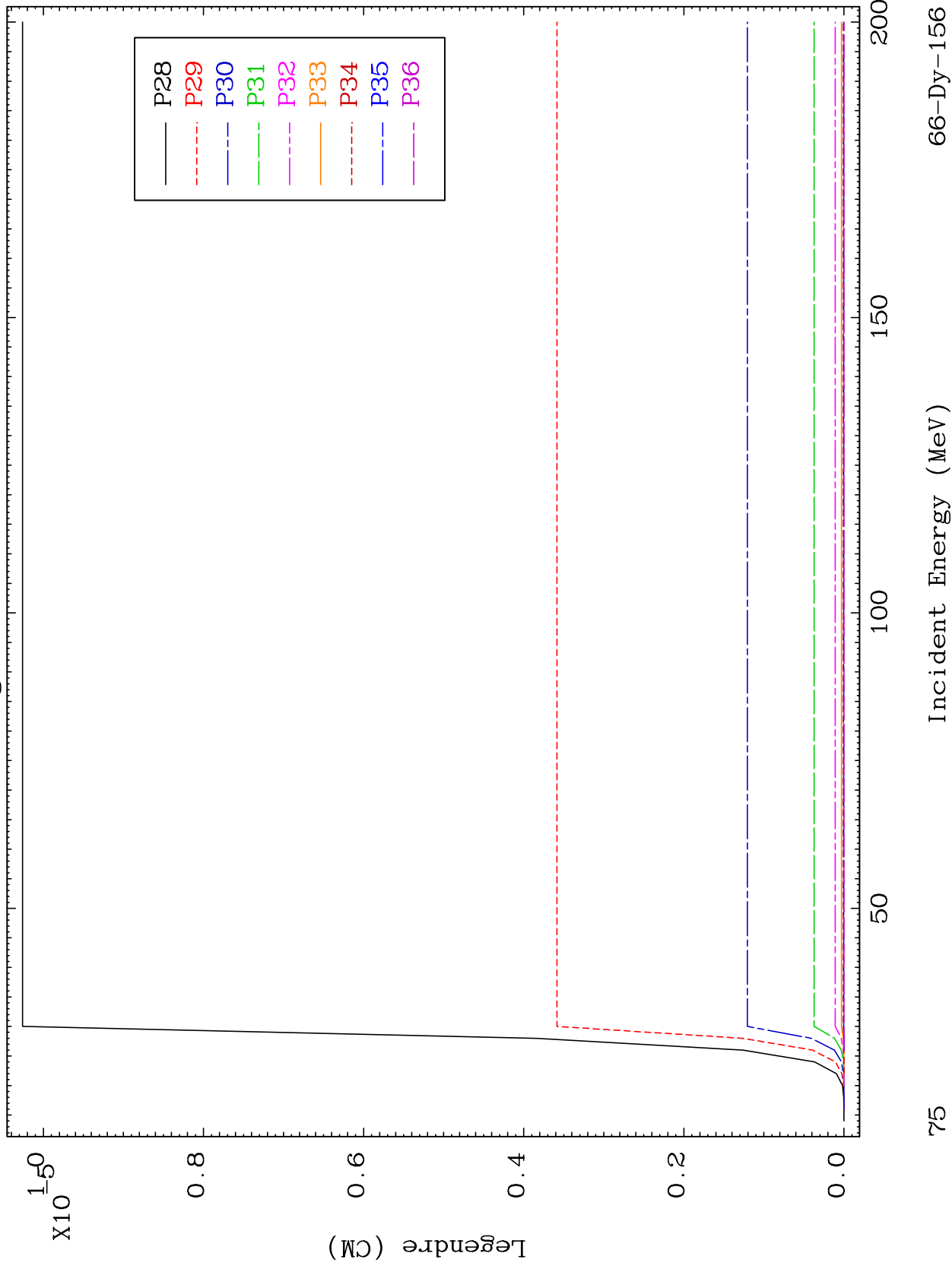
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156



66-Dy-156

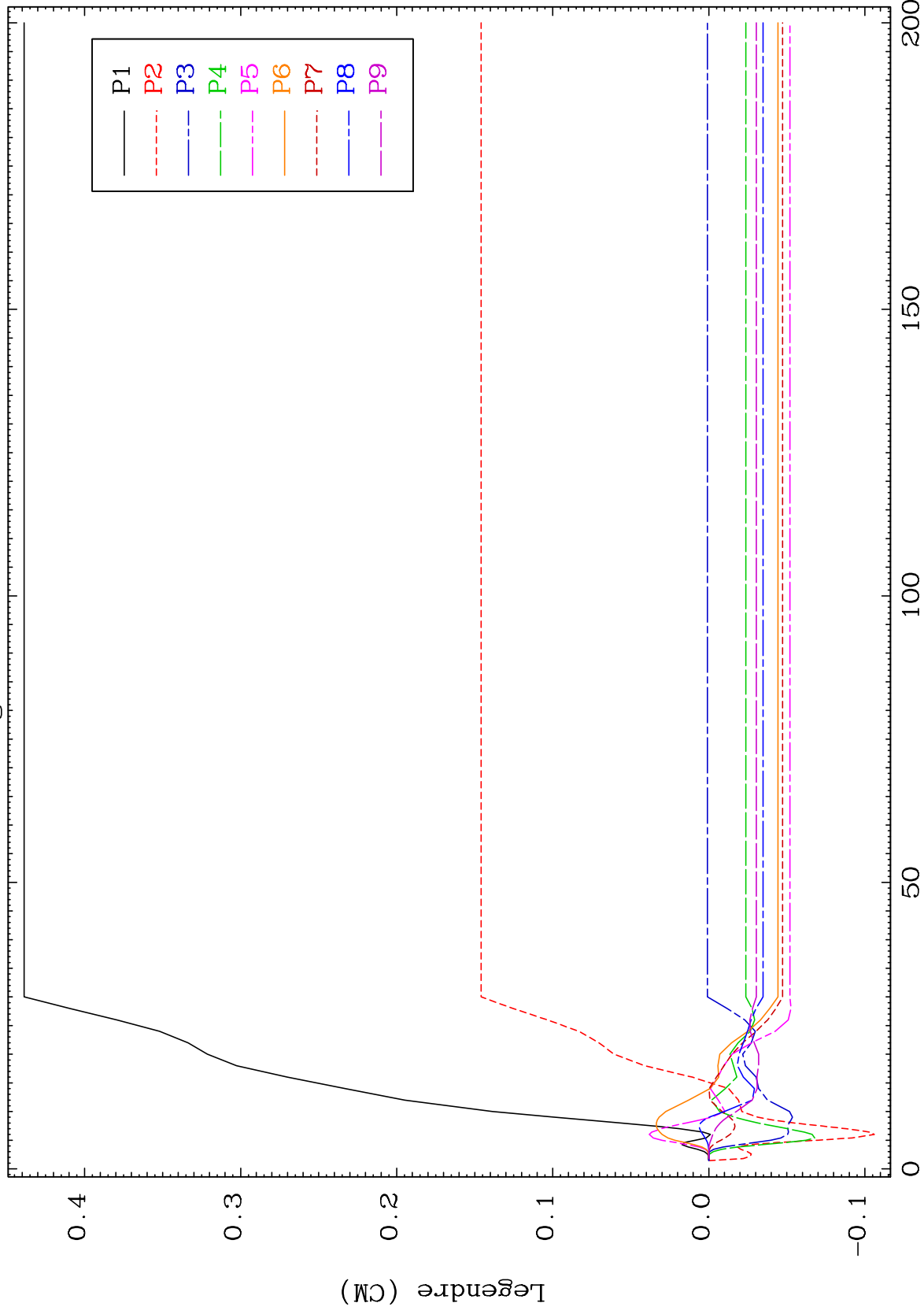
Incident Energy (MeV)

75

MAT 6625

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

66-Dy-156



76

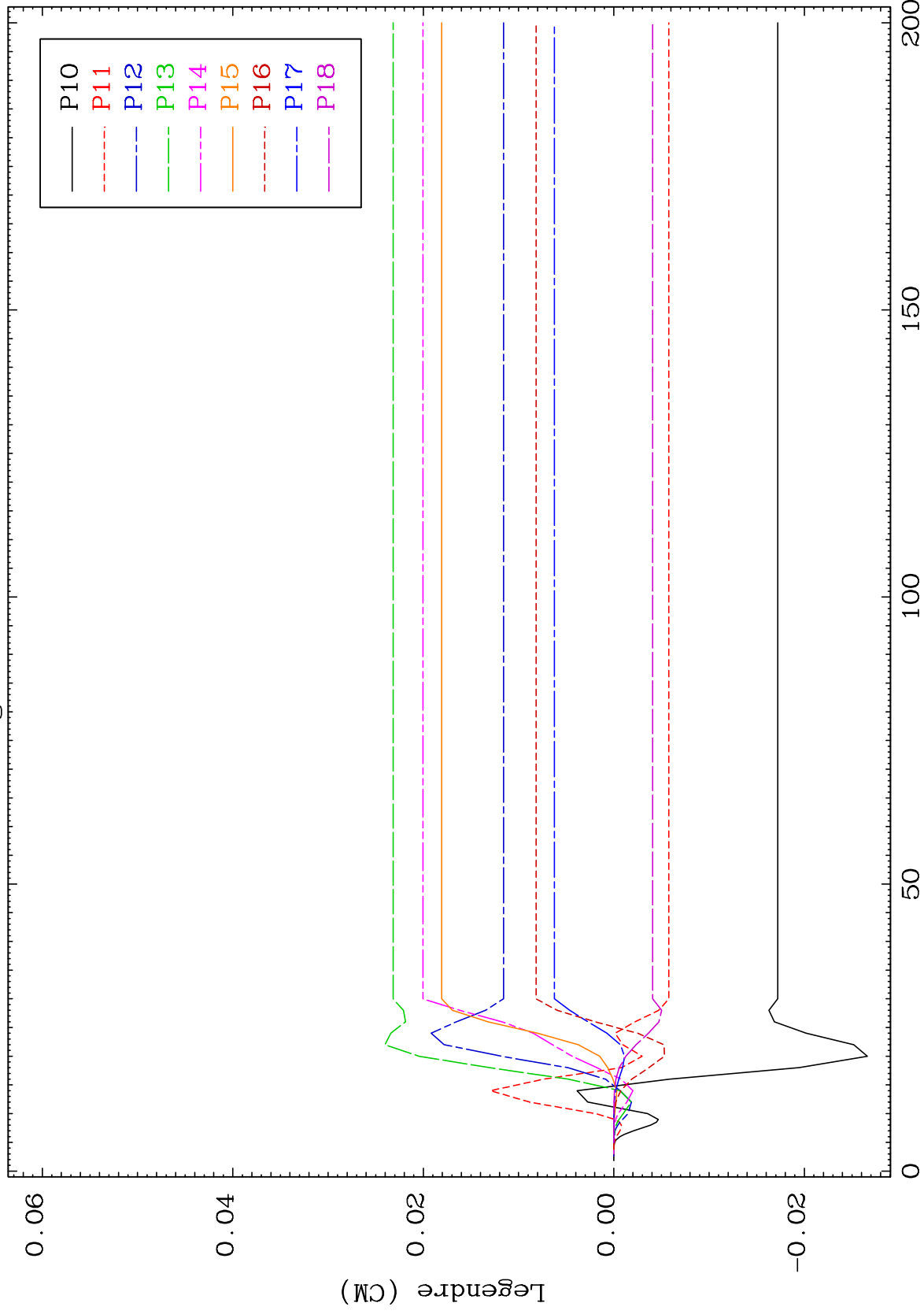
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156



77

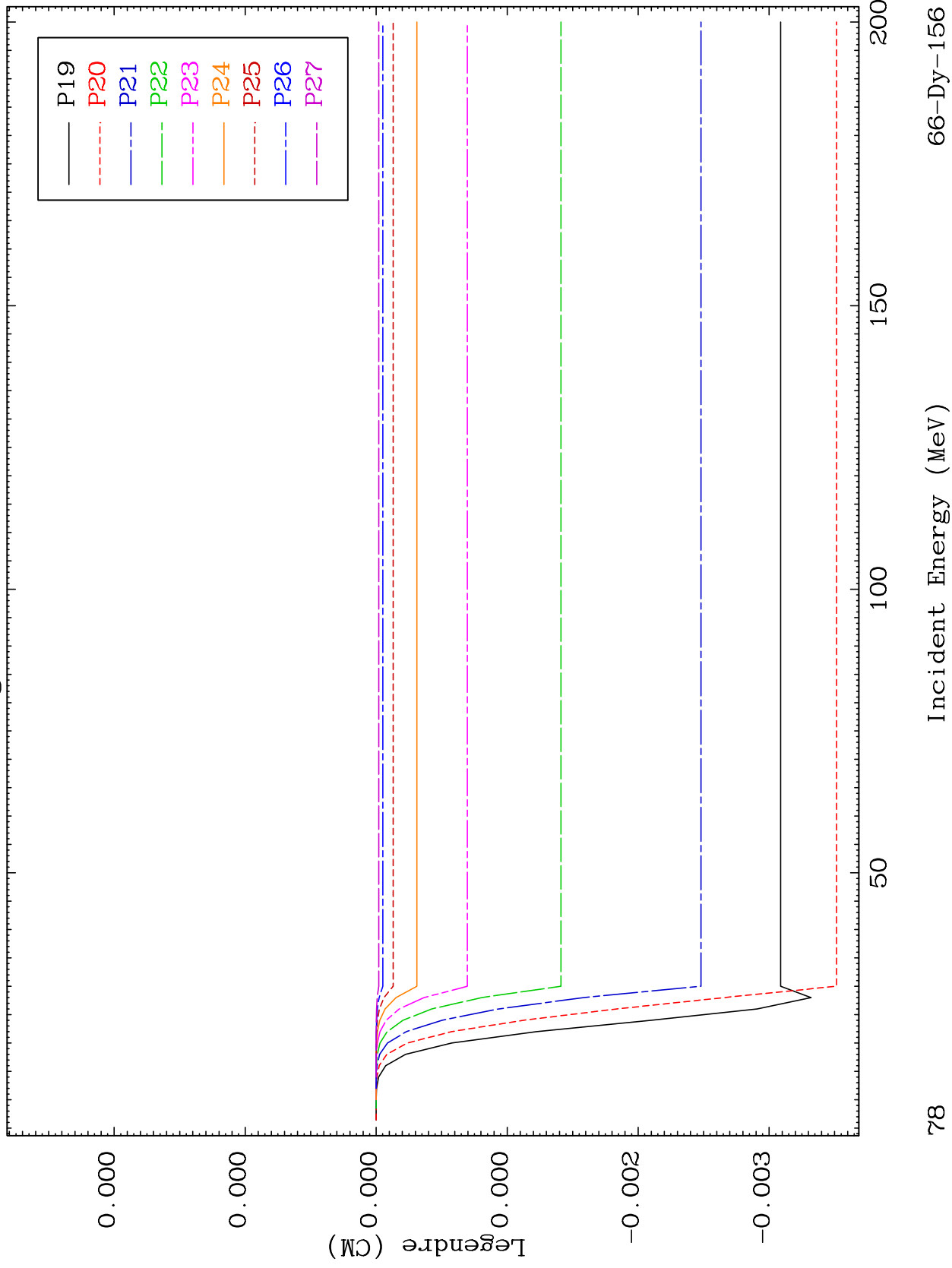
Incident Energy (MeV)

66-Dy-156

MAT 6625

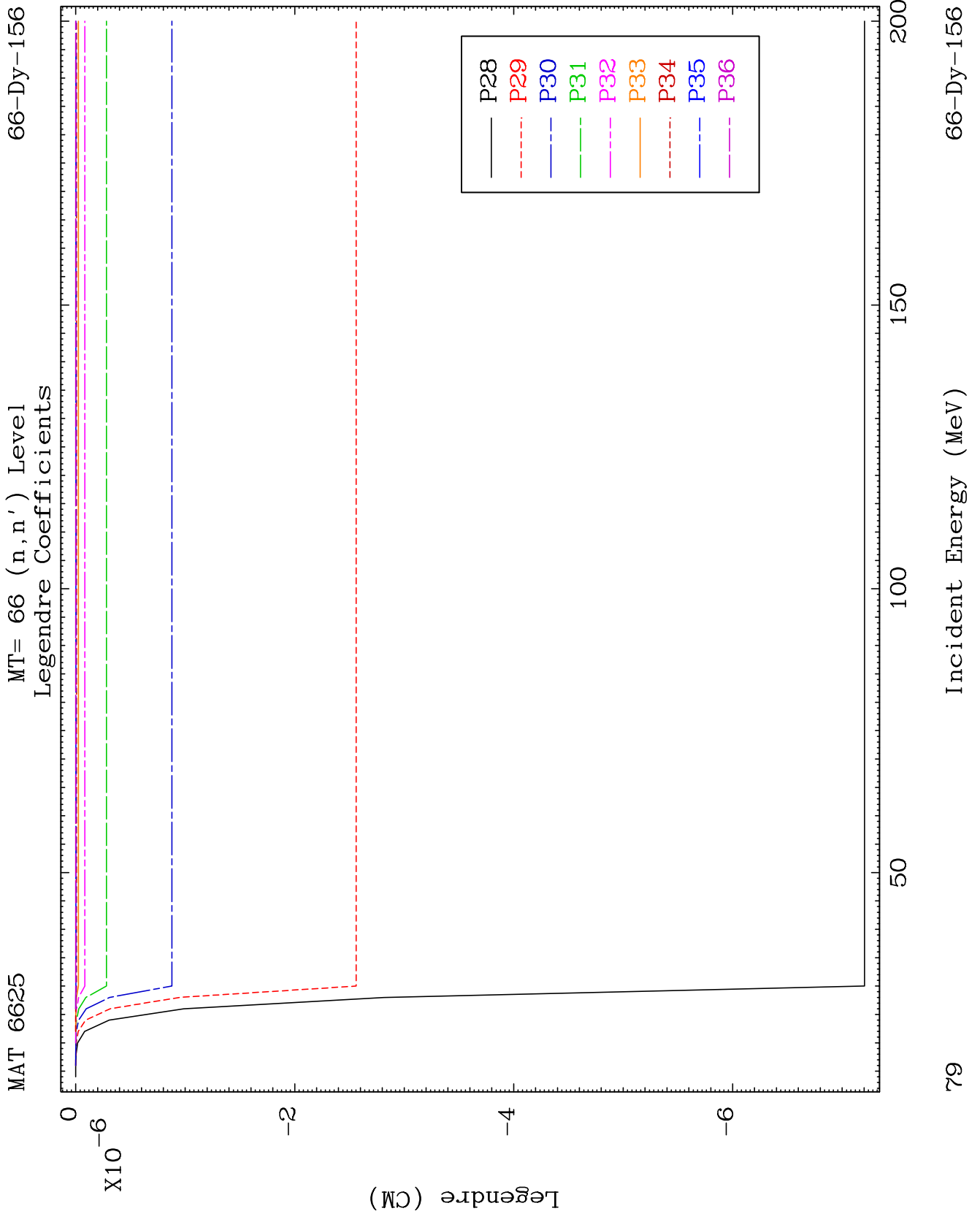
MT= 66 (n,n') Level  
Legendre Coefficients

66-Dy-156



78

66-Dy-156

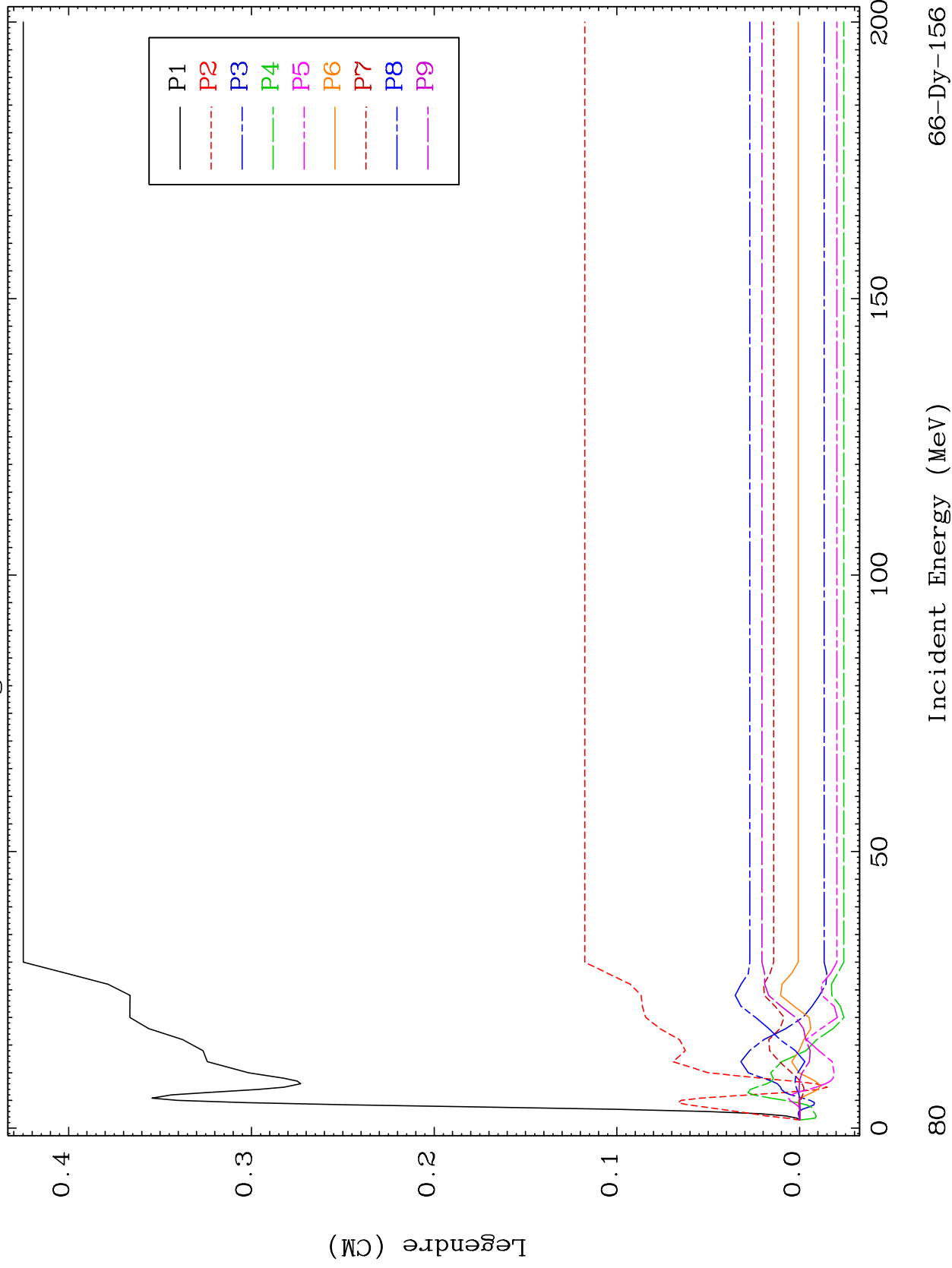




MAT 6625

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

66-Dy-156



66-Dy-156

Incident Energy (MeV)

80

200

150

100

50

0.4

0.3

0.2

0.1

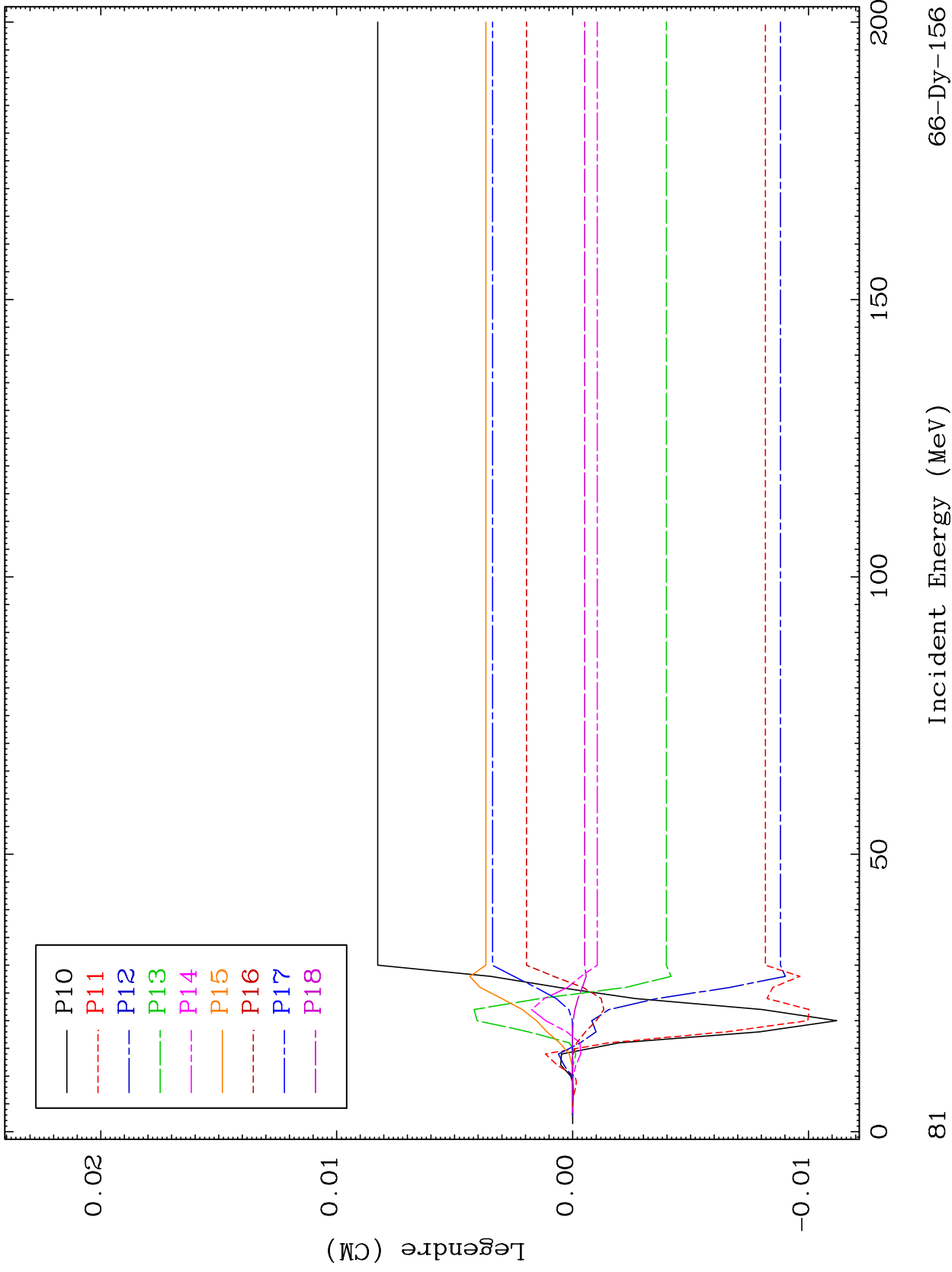
0.0

Legendre (CM)

MAT 6625

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

66-Dy-156



81

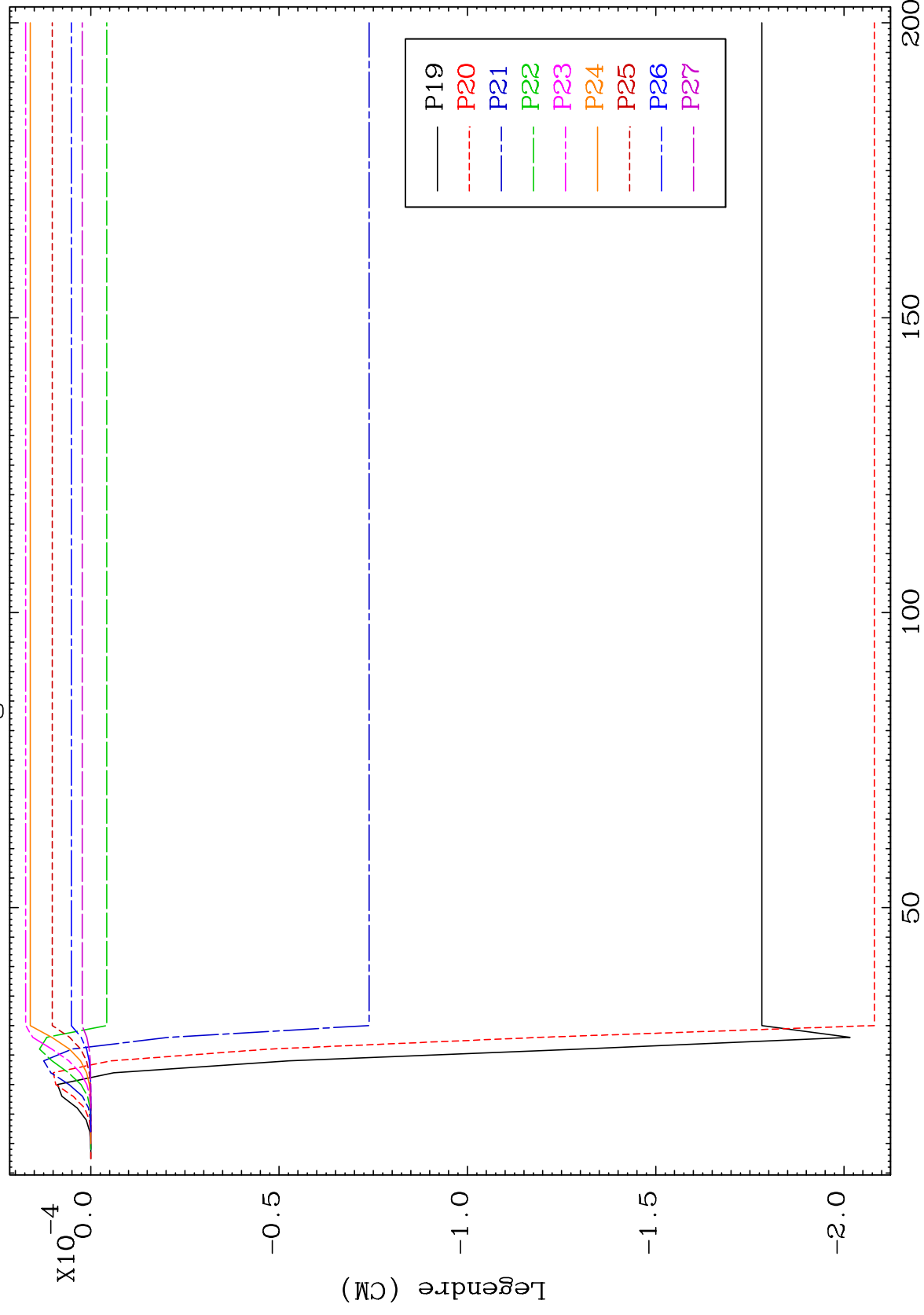
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156



82

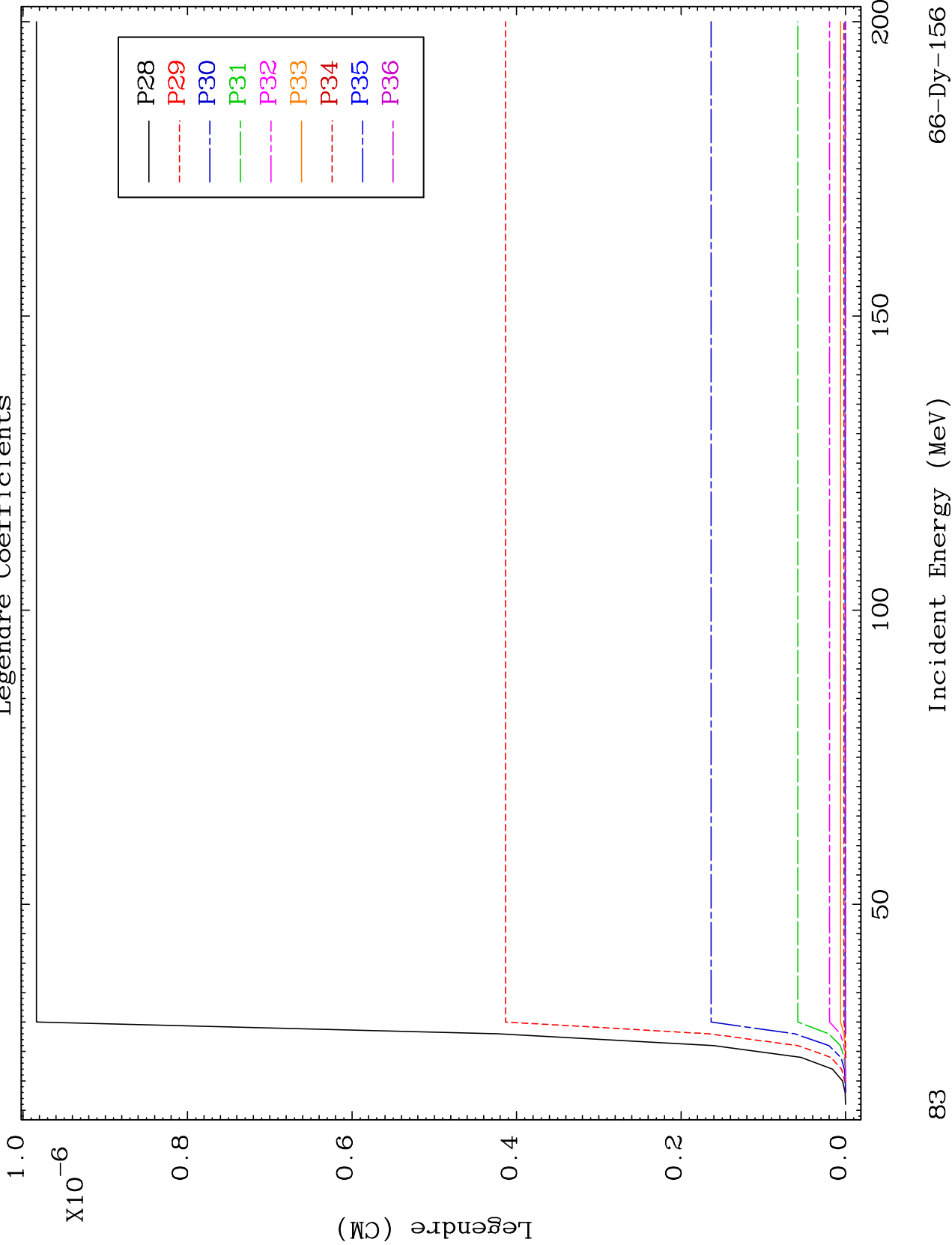
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

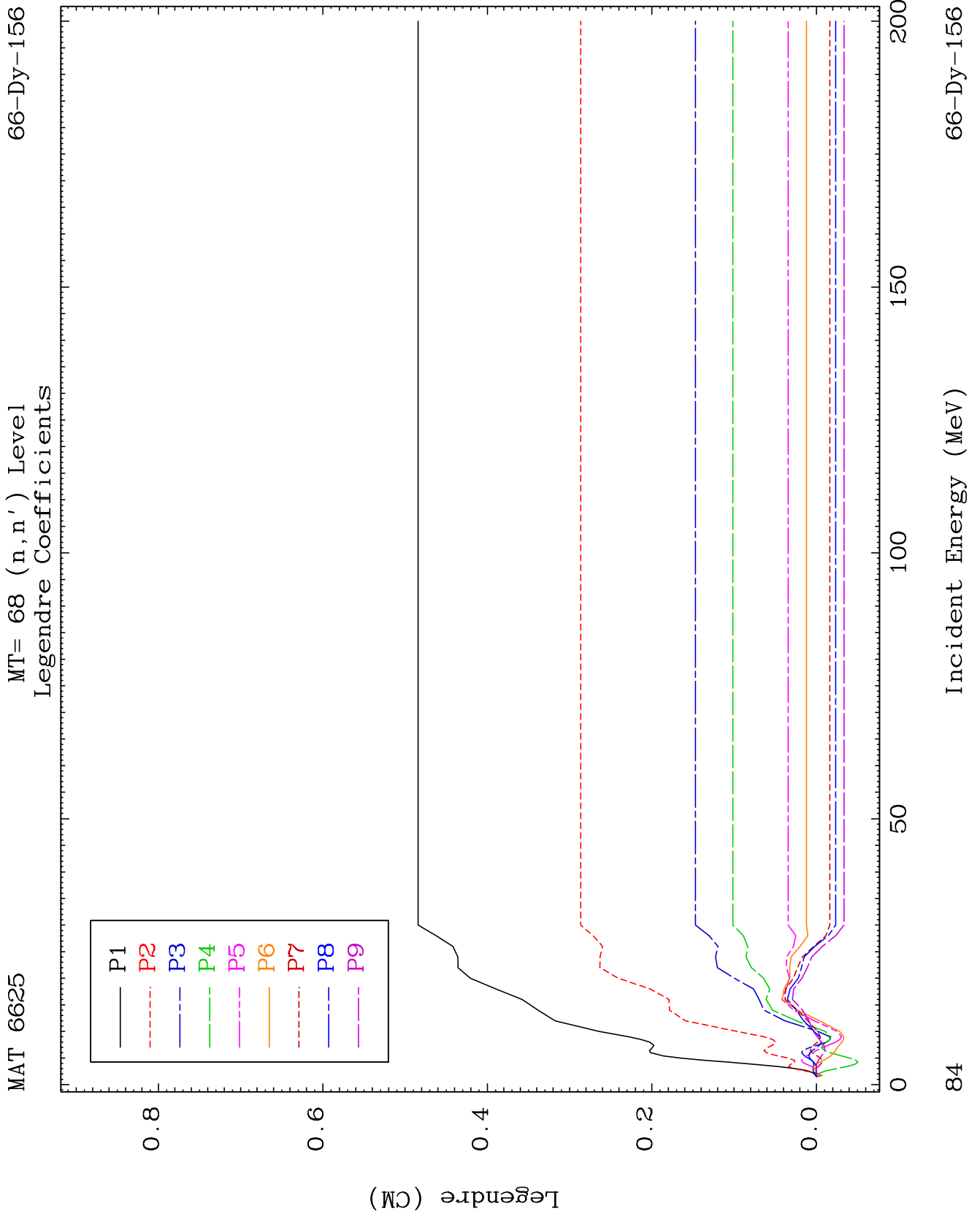
66-Dy-156

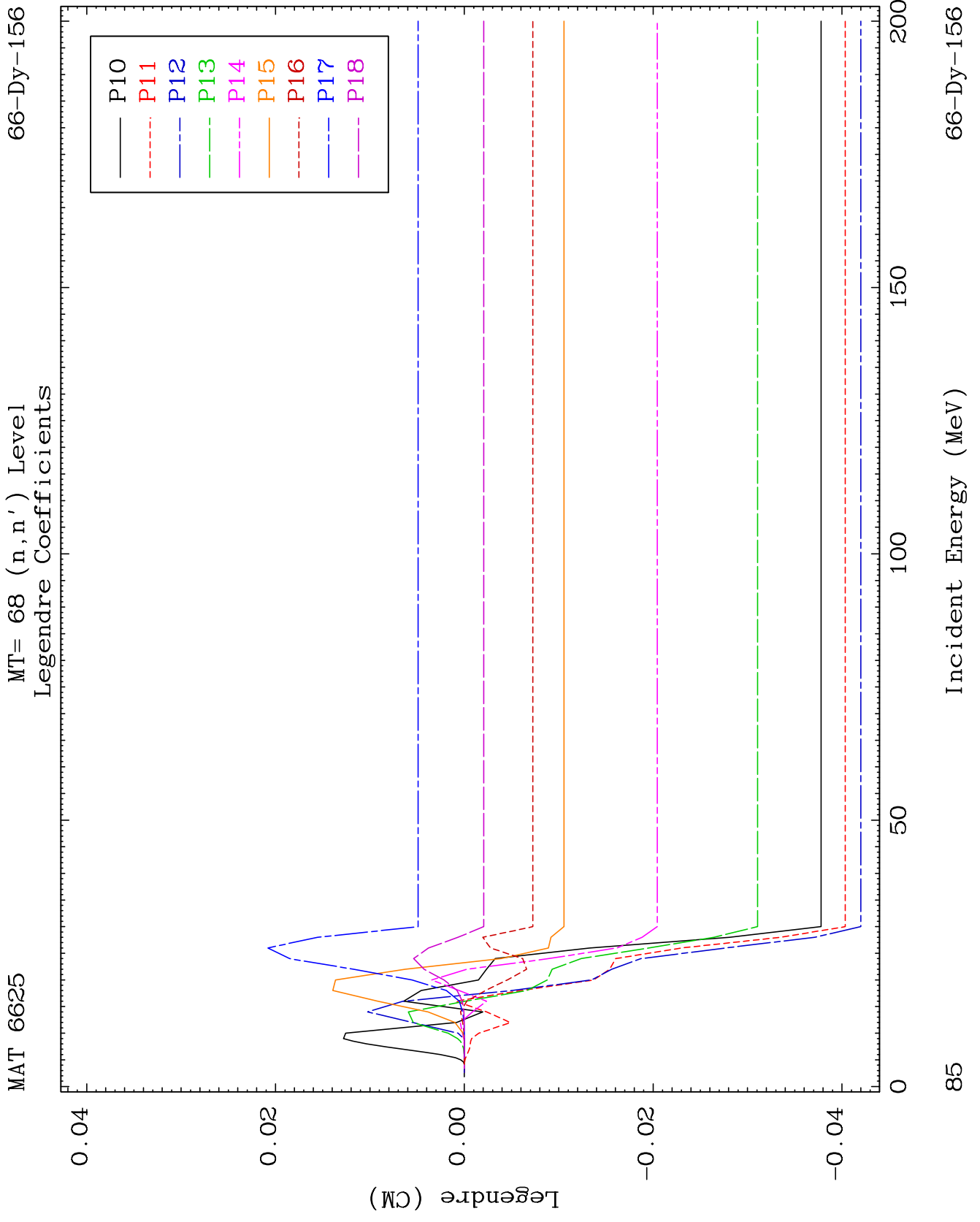


83

Incident Energy (MeV)

66-Dy-156

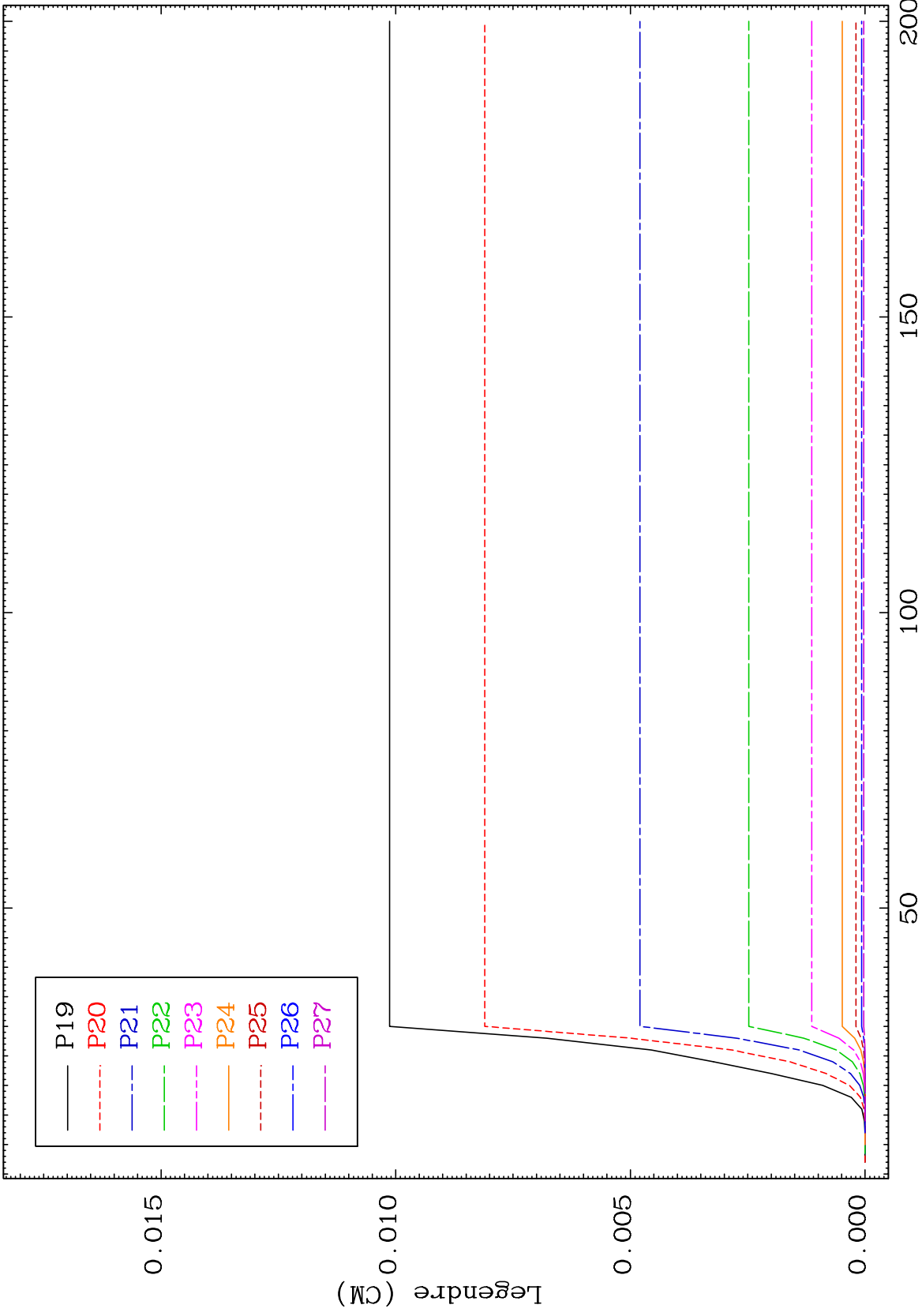




MAT 6625

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

66-Dy-156



86

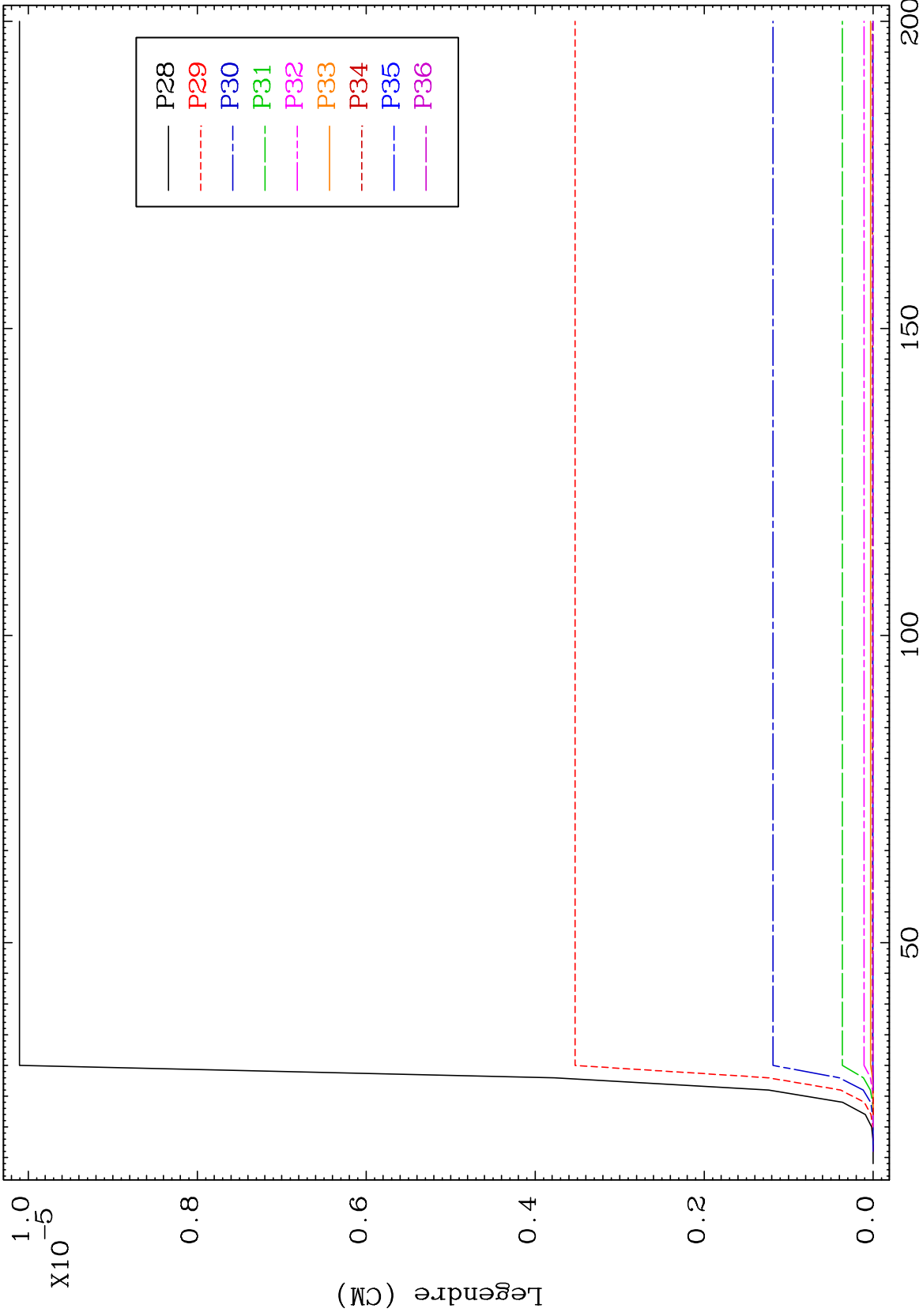
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156



87

Incident Energy (MeV)

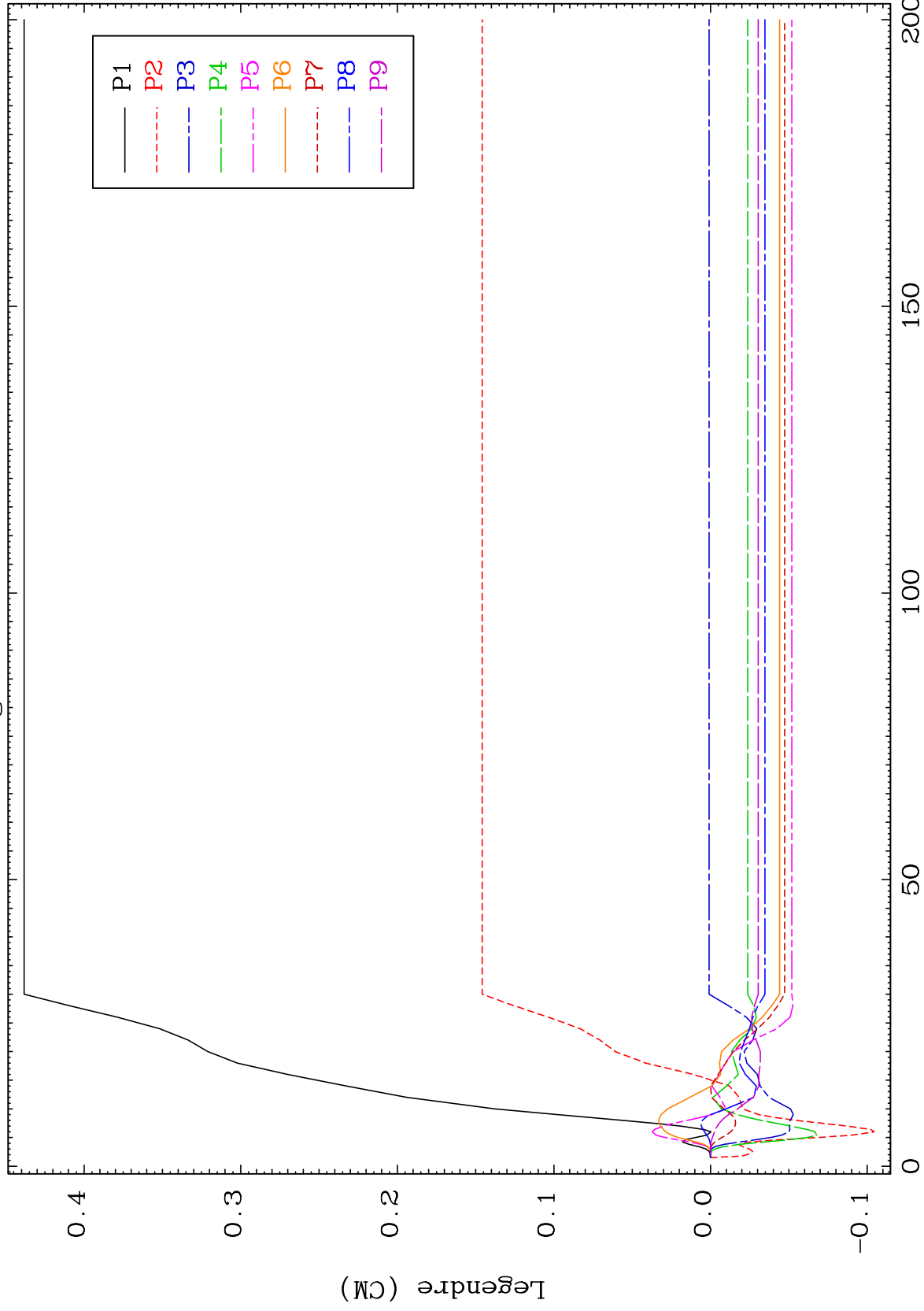
66-Dy-156



MAT 6625

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

66-Dy-156



66-Dy-156

Incident Energy (MeV)

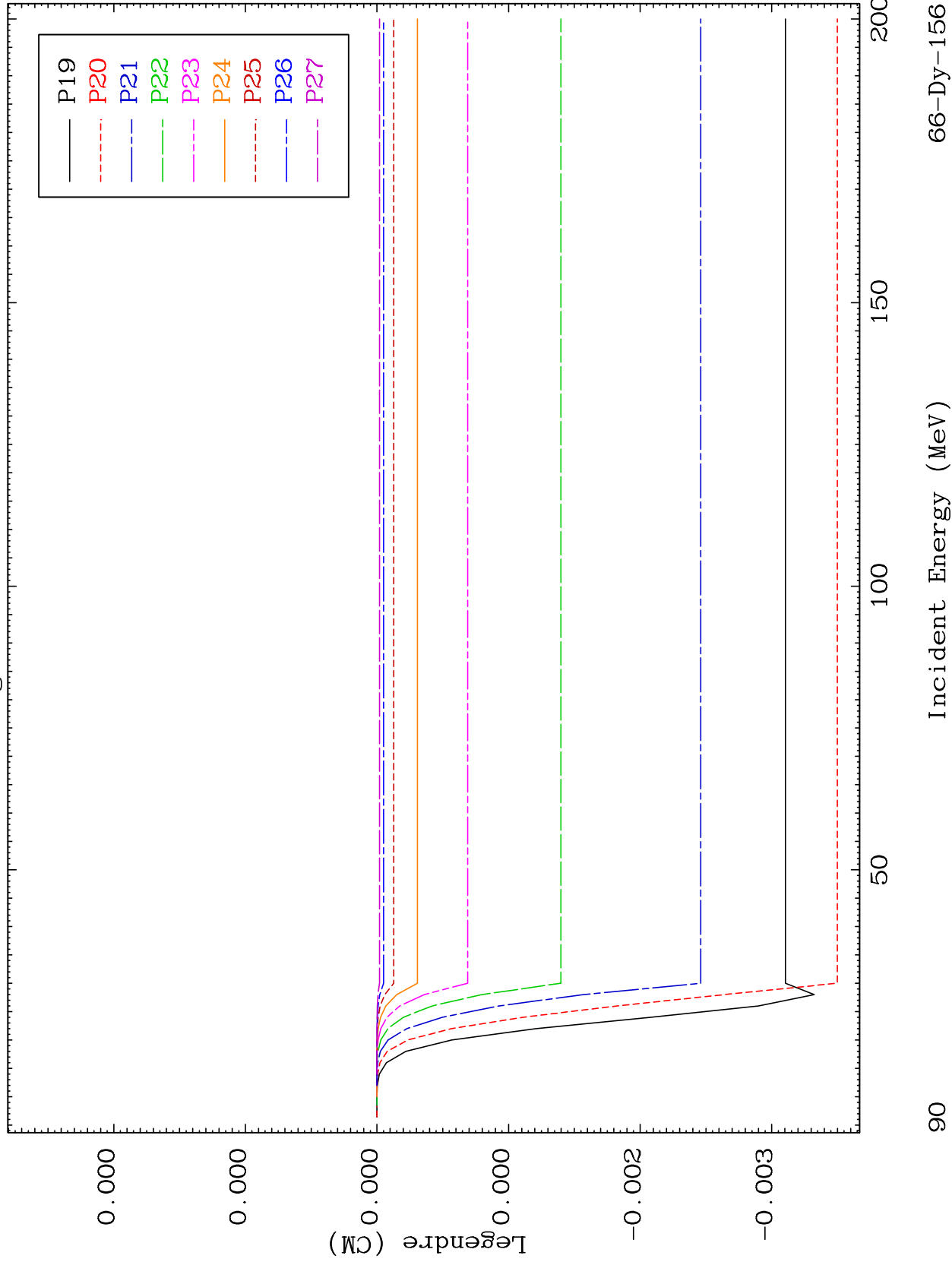
88



MAT 6625

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

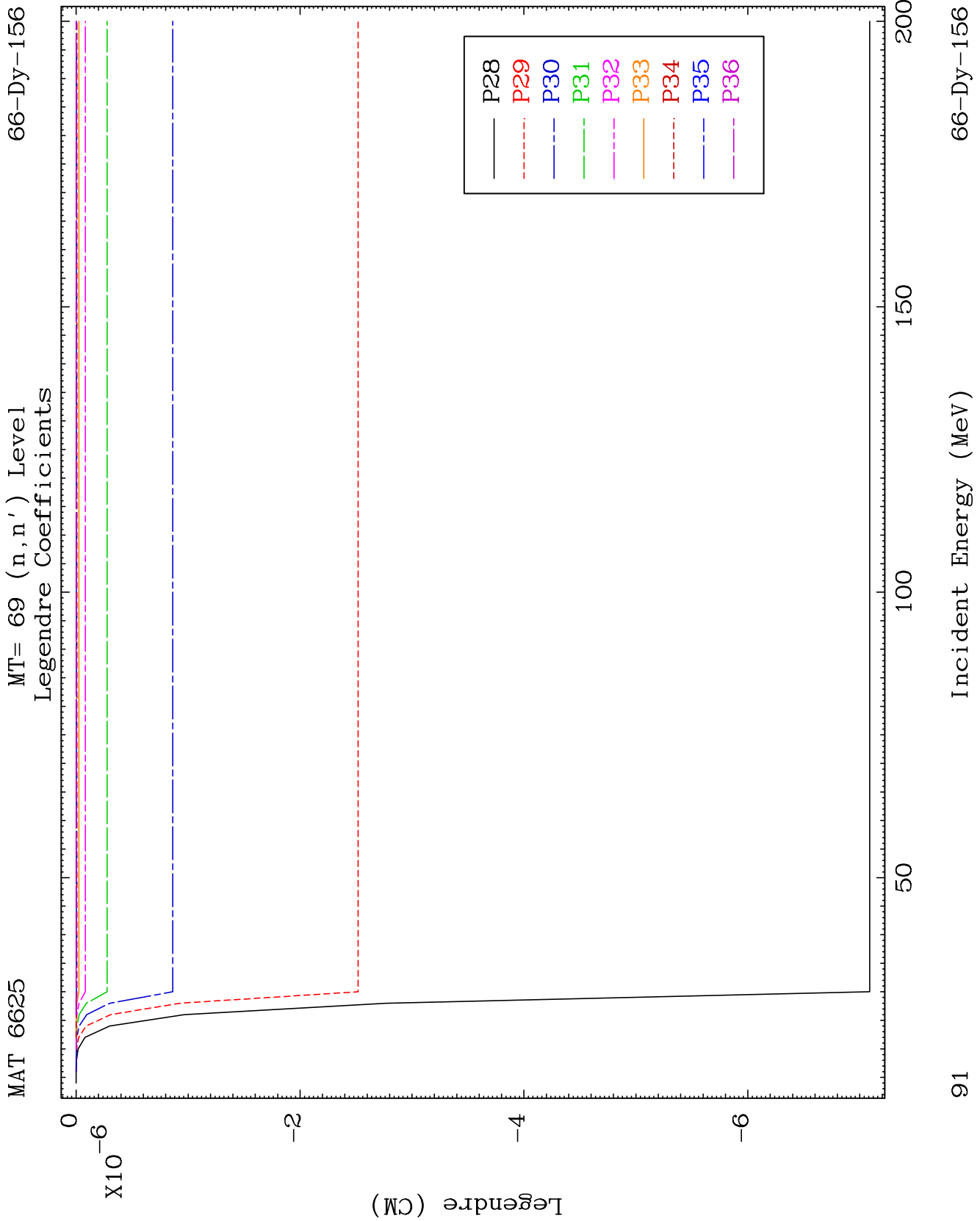
66-Dy-156

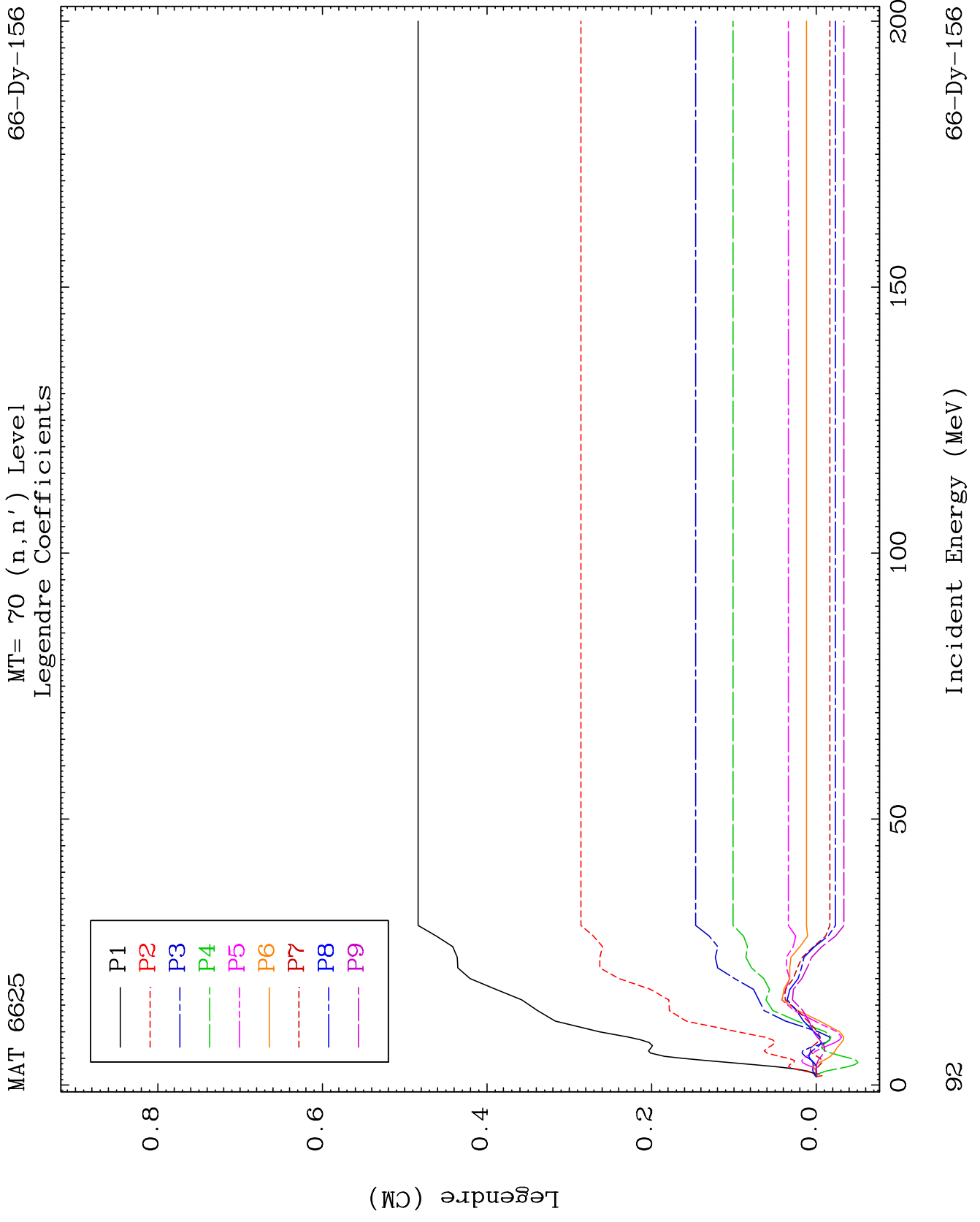


90

Incident Energy (MeV)

66-Dy-156

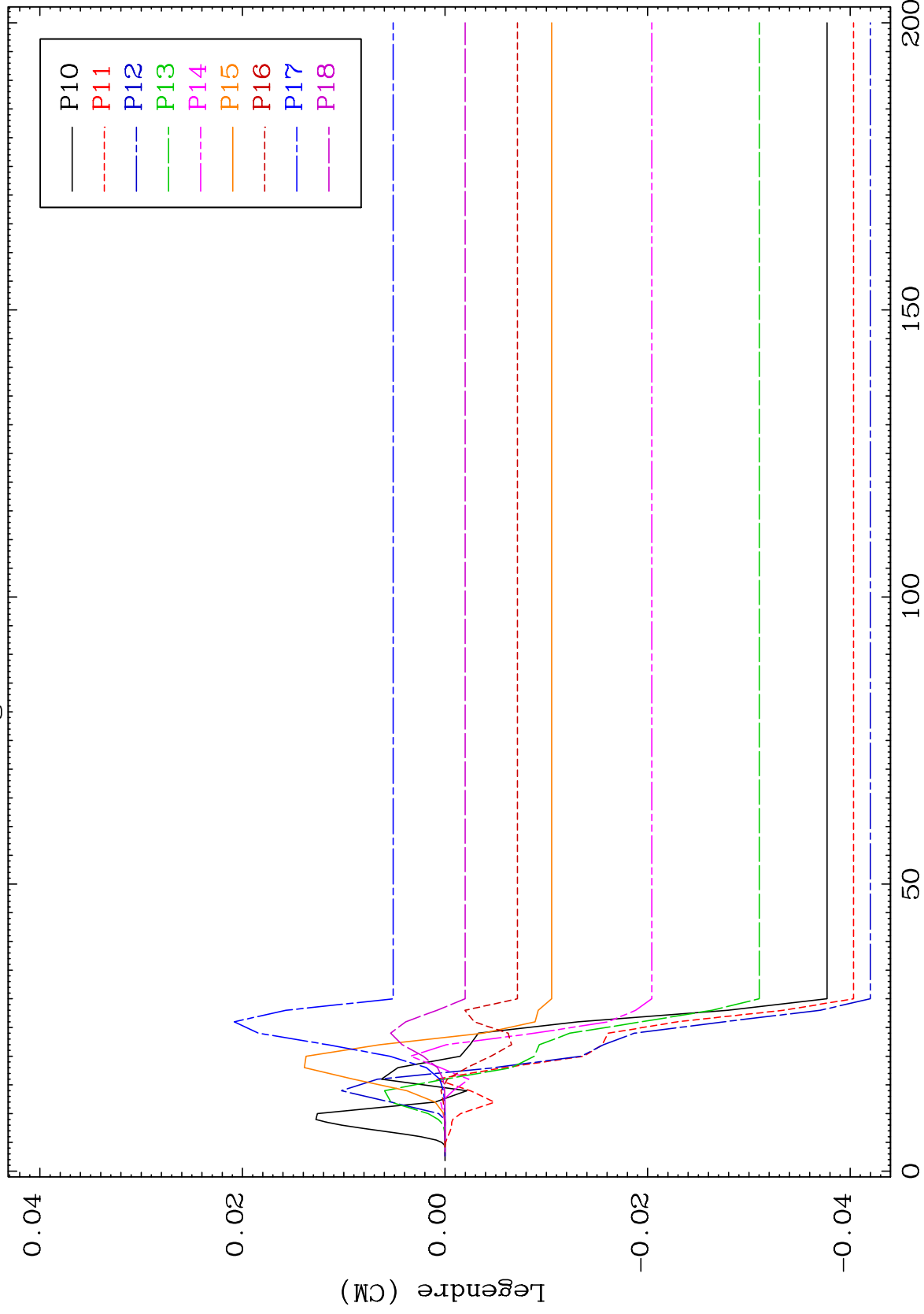




MAT 6625

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

66-Dy-156



93

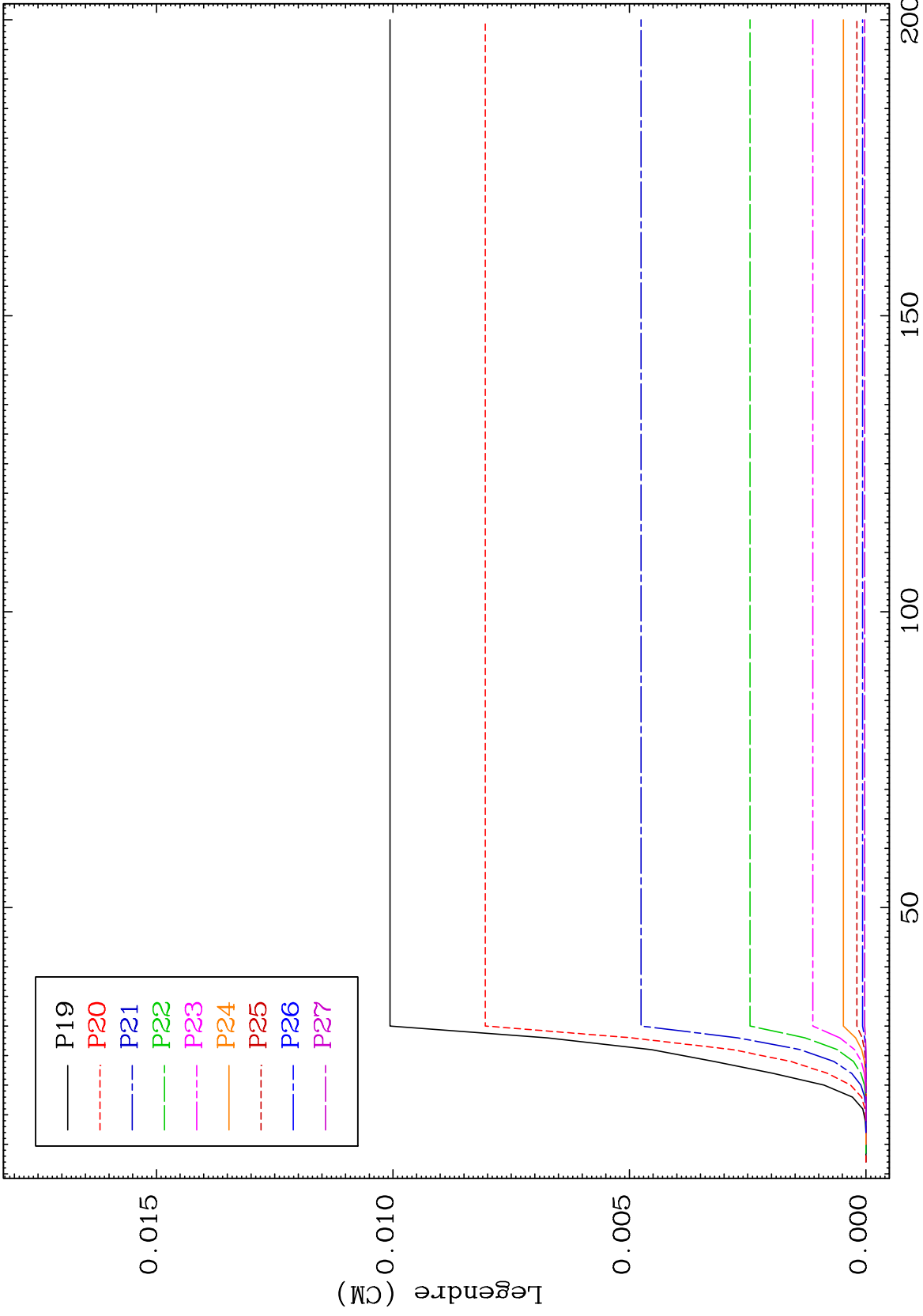
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

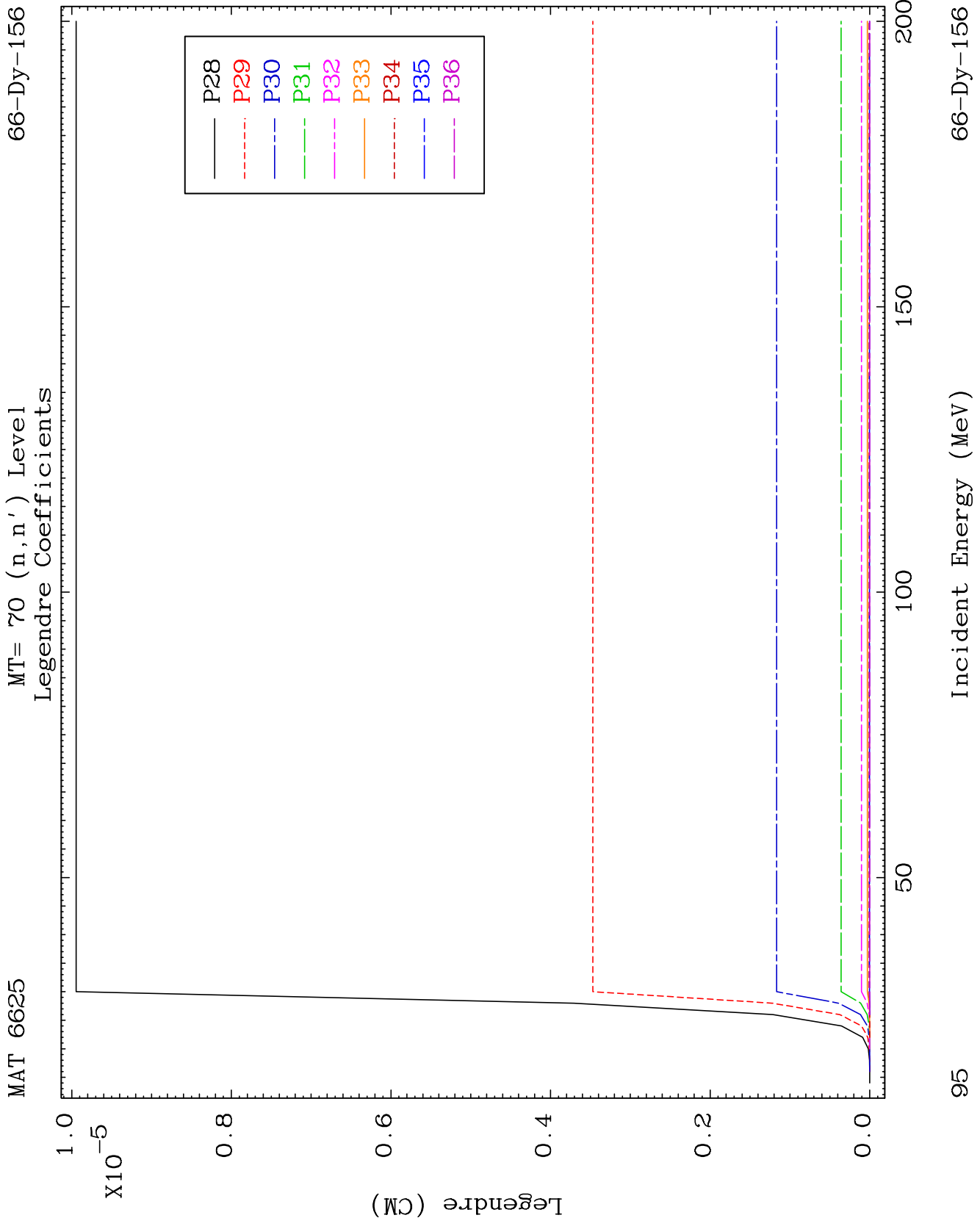
66-Dy-156



94

Incident Energy (MeV)

66-Dy-156

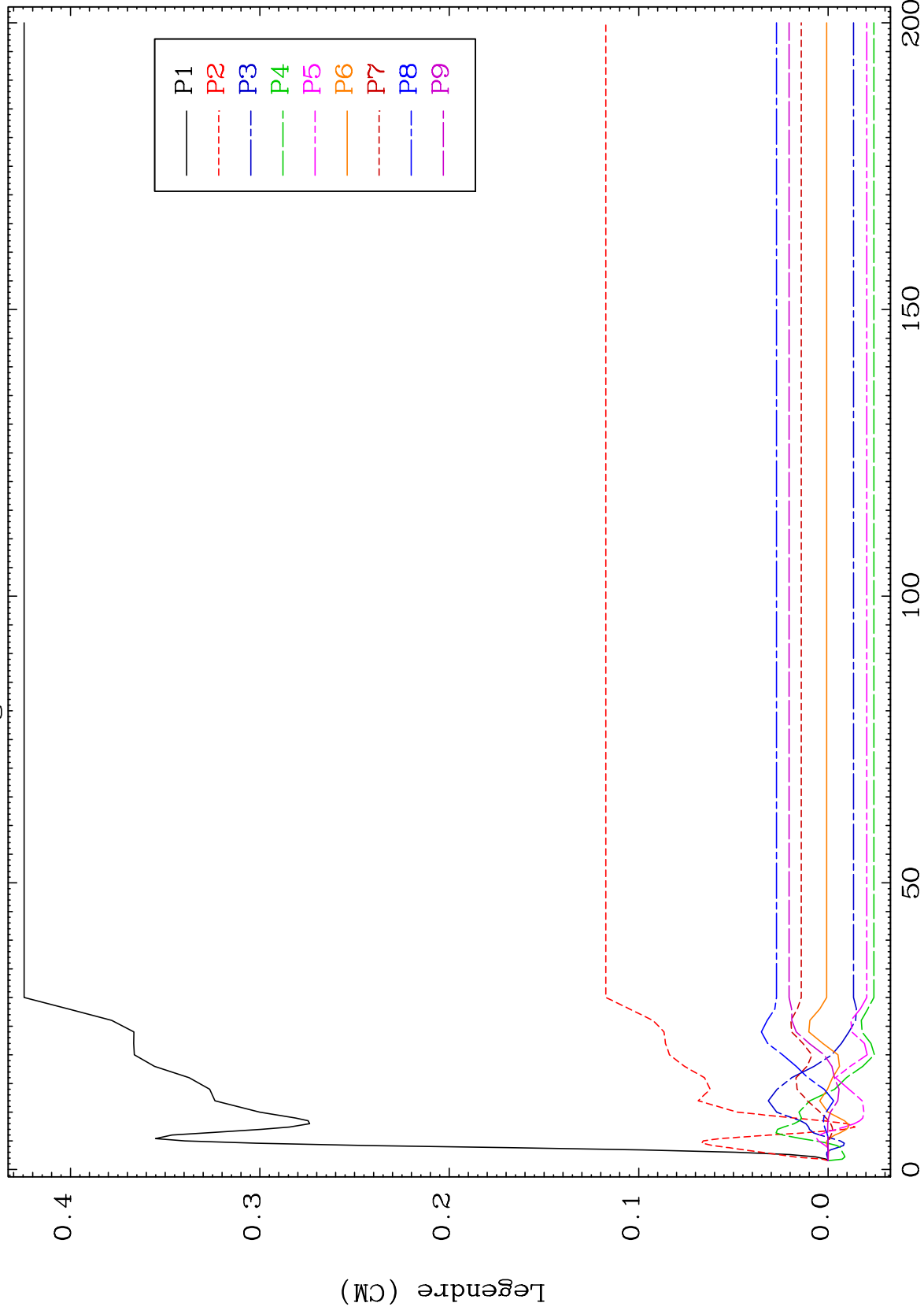




MAT 6625

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

66-Dy-156



96

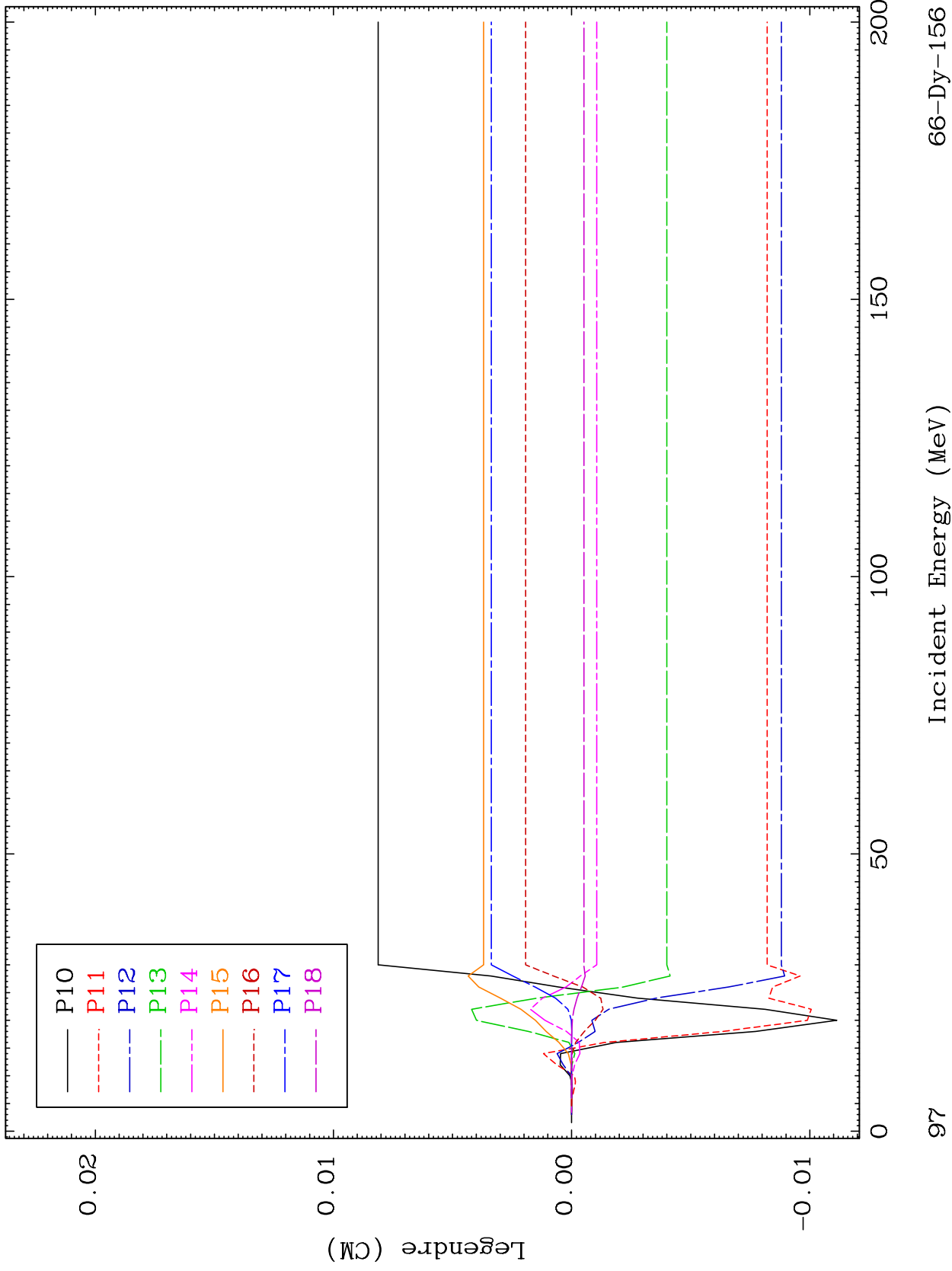
Incident Energy (MeV)

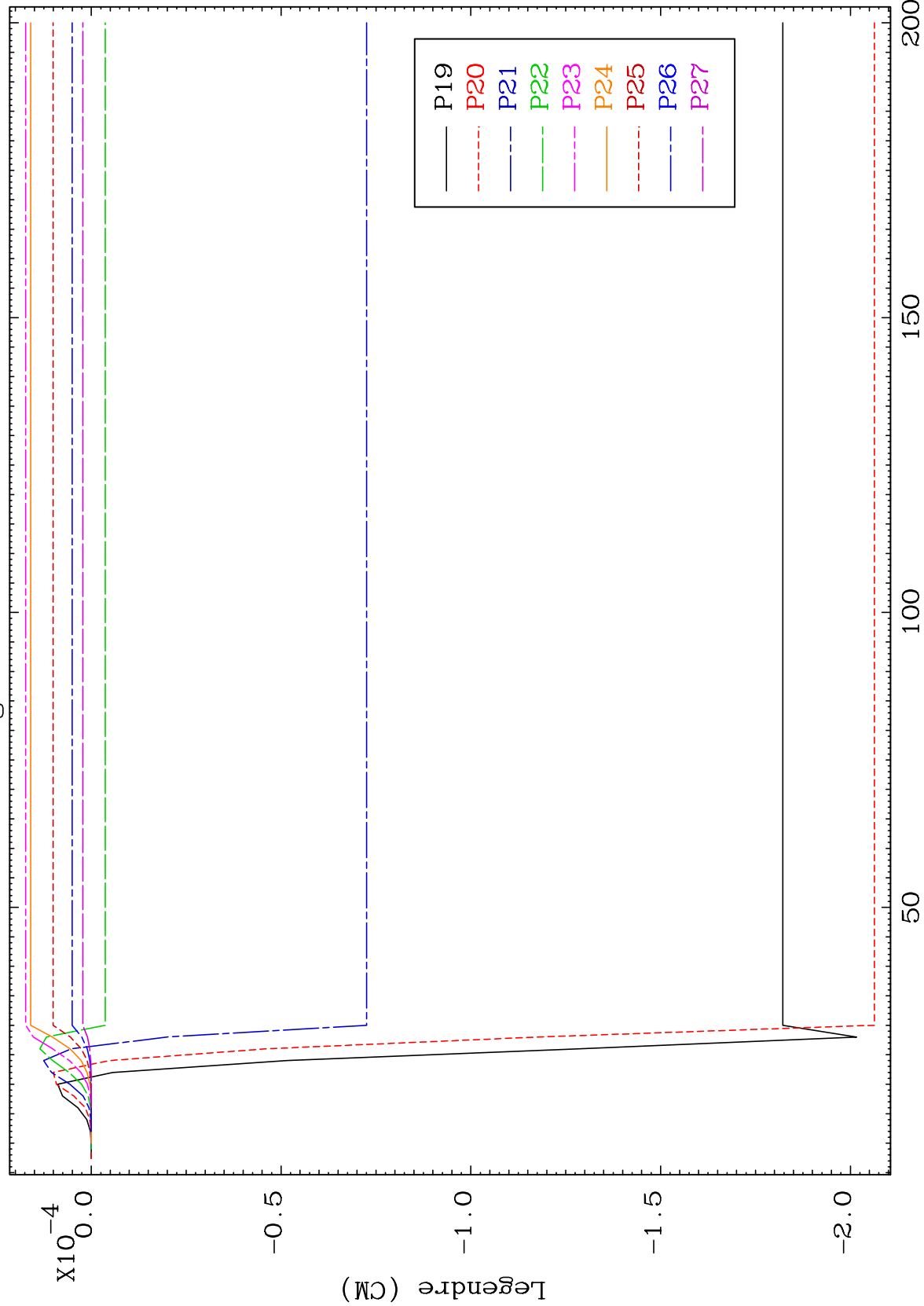
66-Dy-156

MAT 6625

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

66-Dy-156

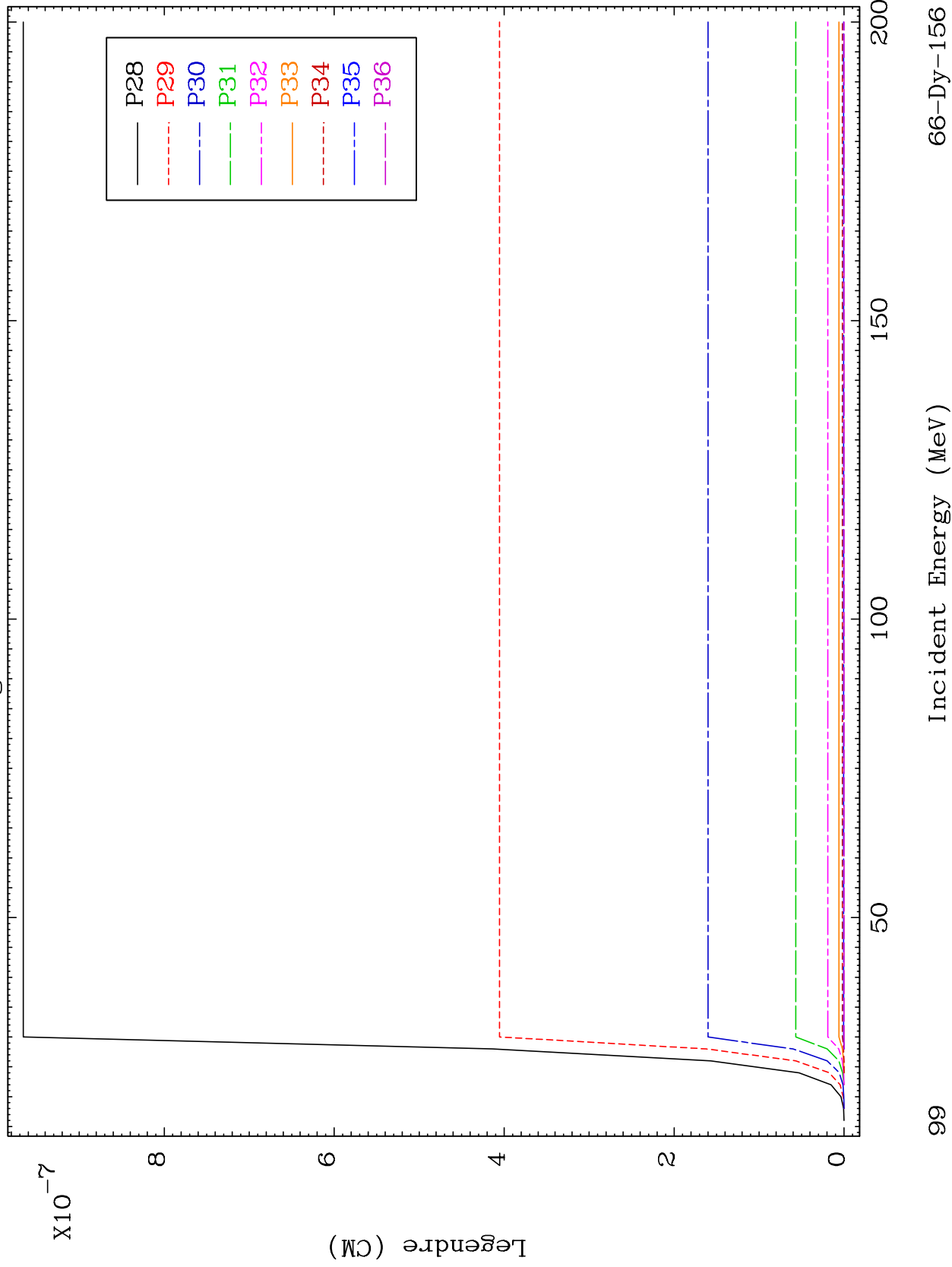




MAT 6625

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

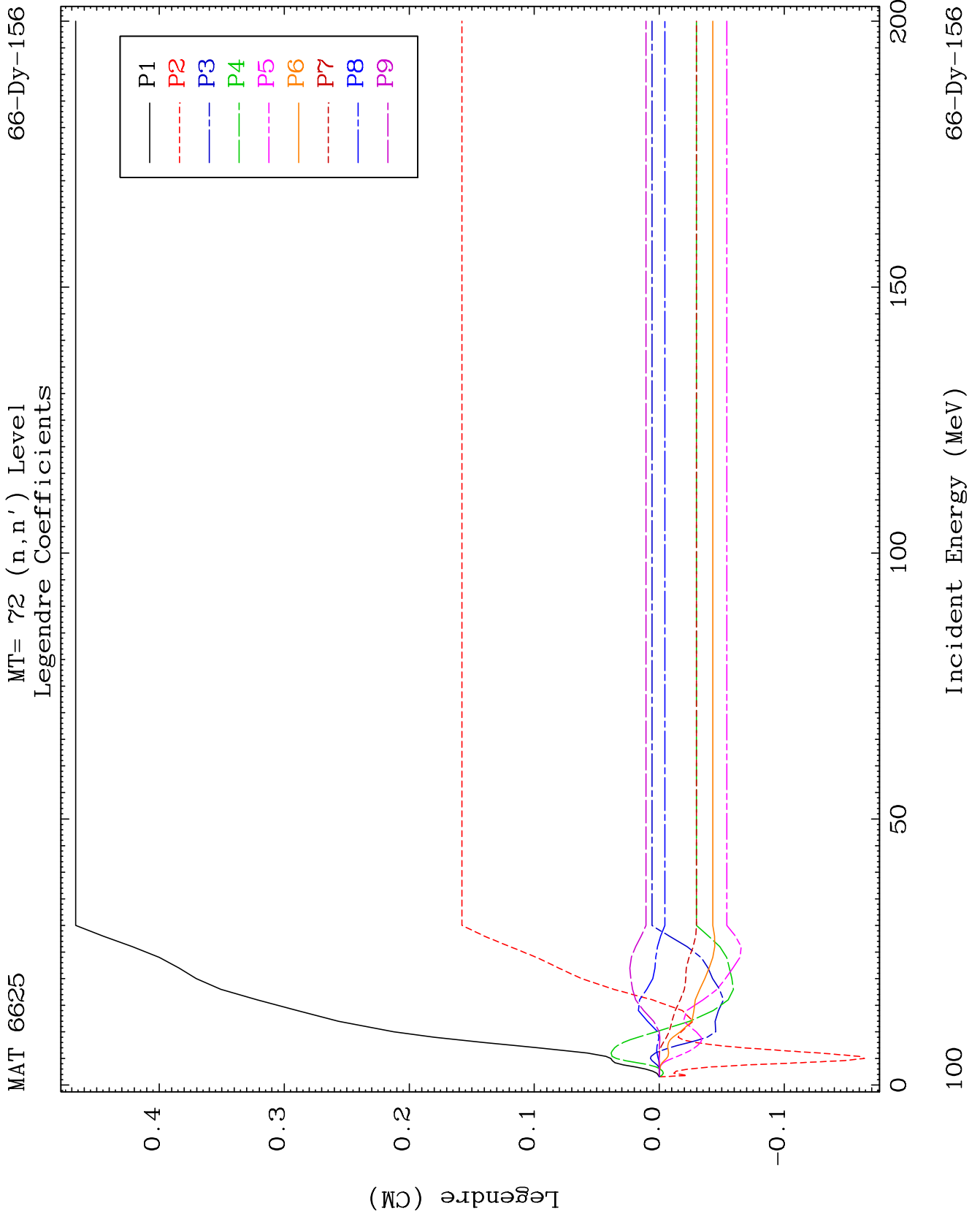
66-Dy-156



99

Incident Energy (MeV)

66-Dy-156

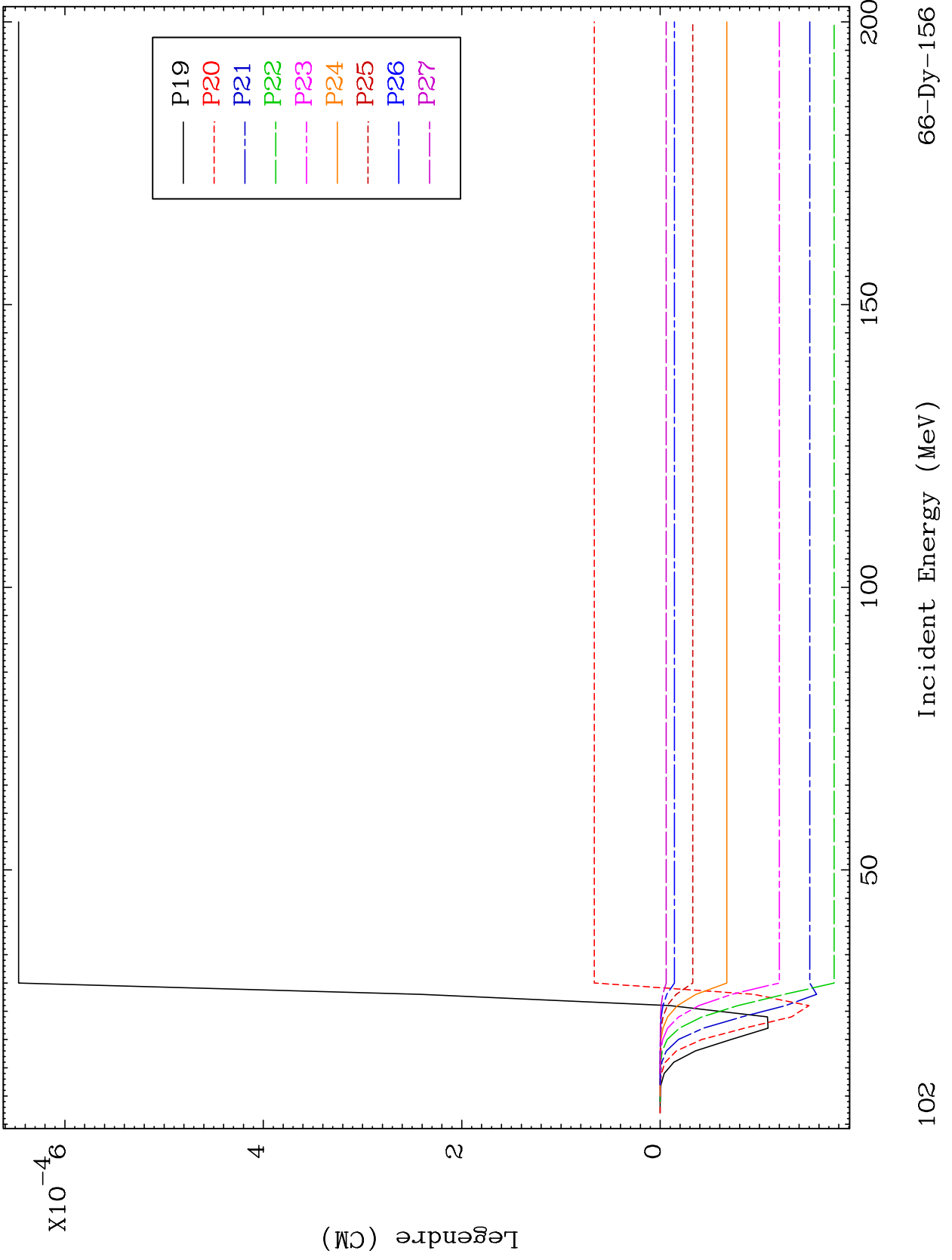


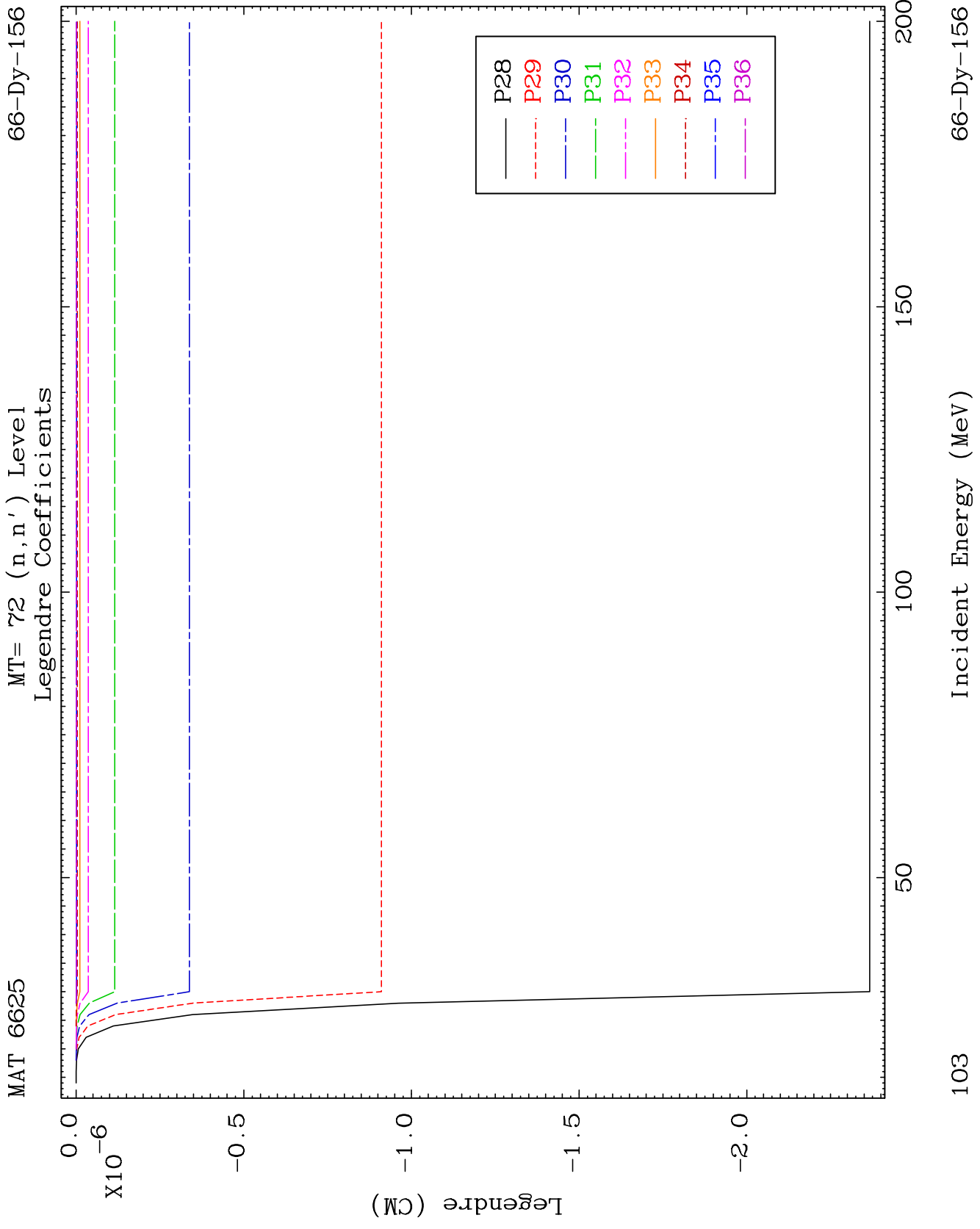


MAT 6625

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

66-Dy-156



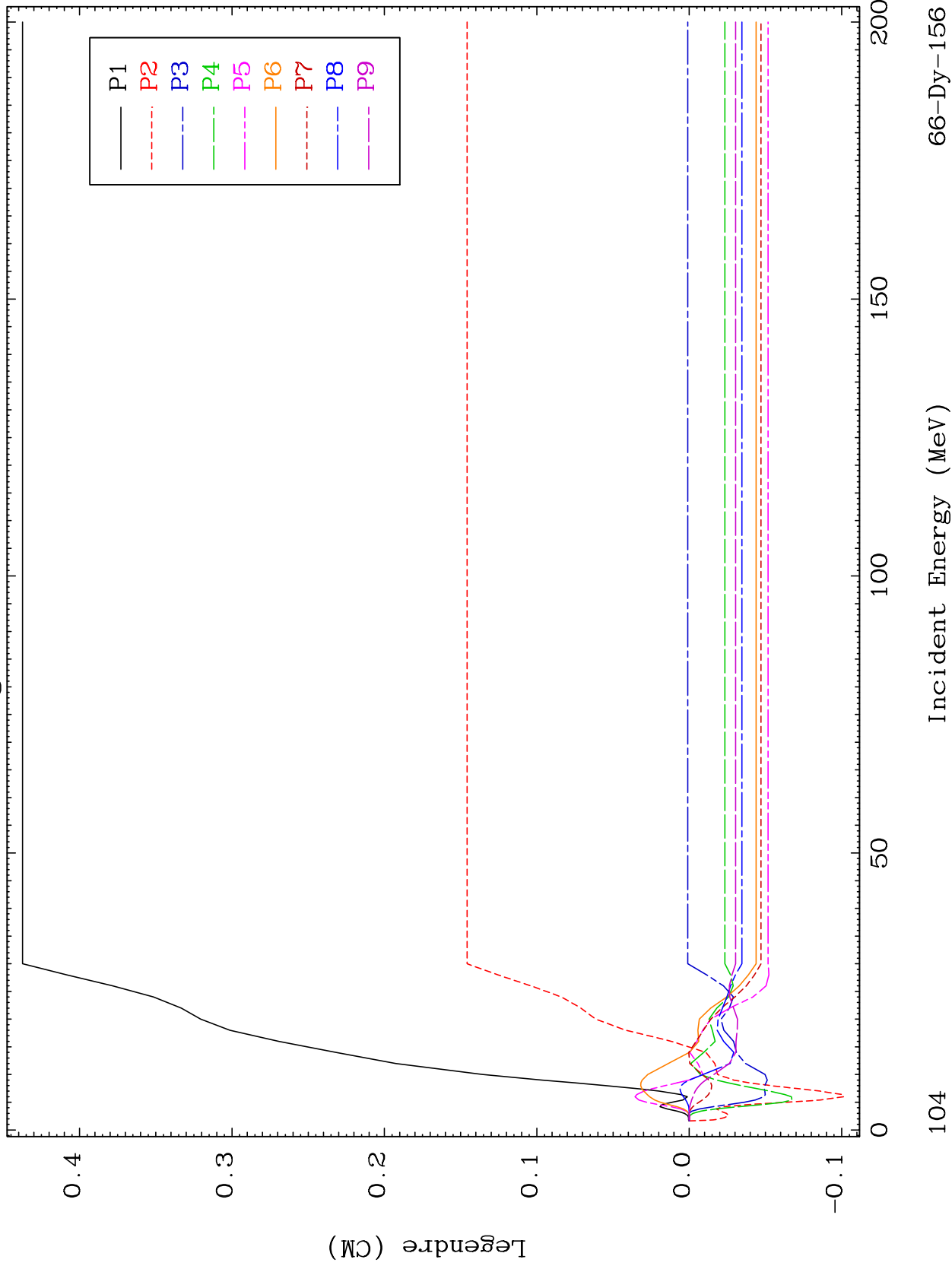




MAT 6625

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

66-Dy-156



104

Incident Energy (MeV)

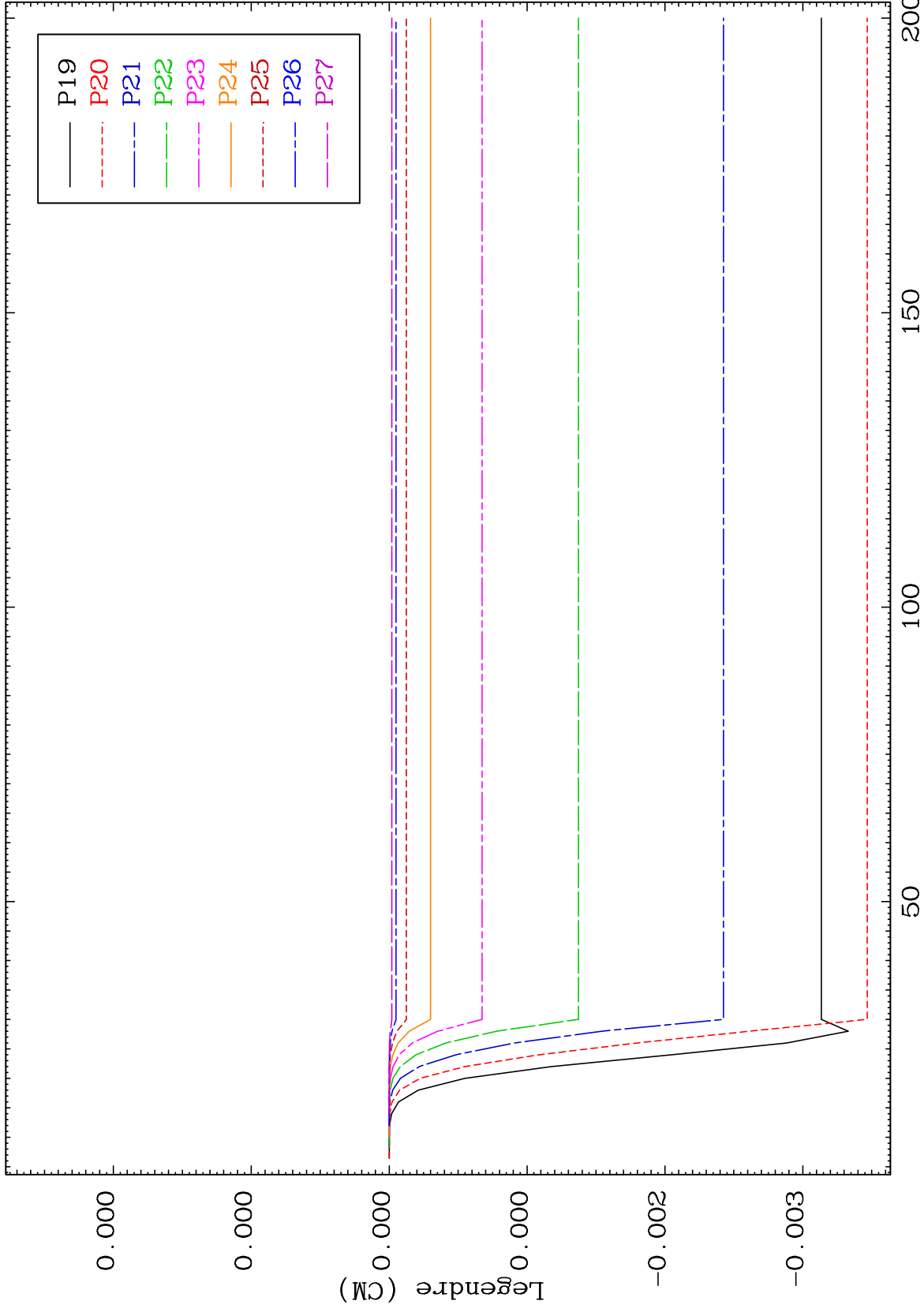
66-Dy-156



MAT 6625

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

66-Dy-156



106

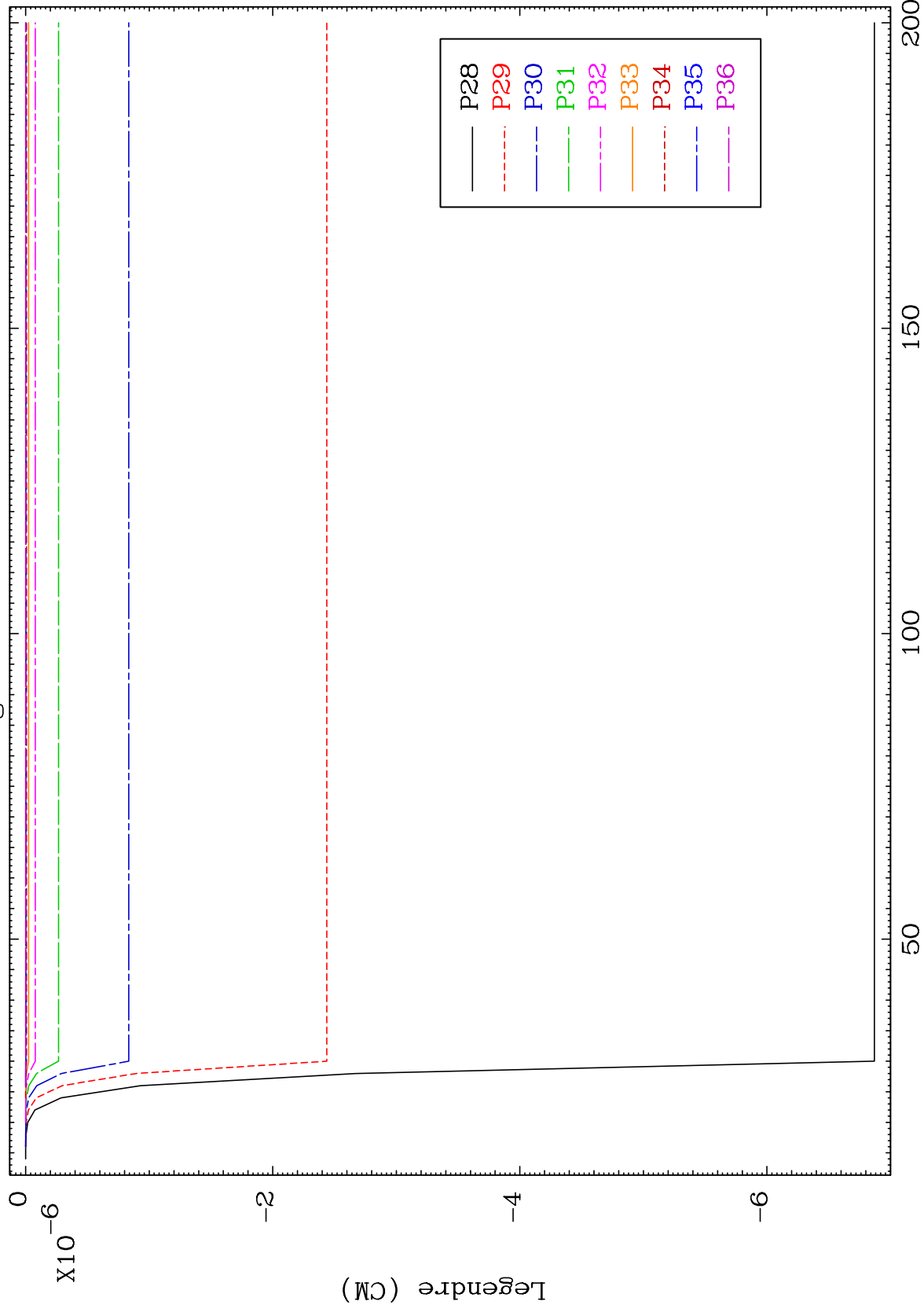
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

66-Dy-156



107

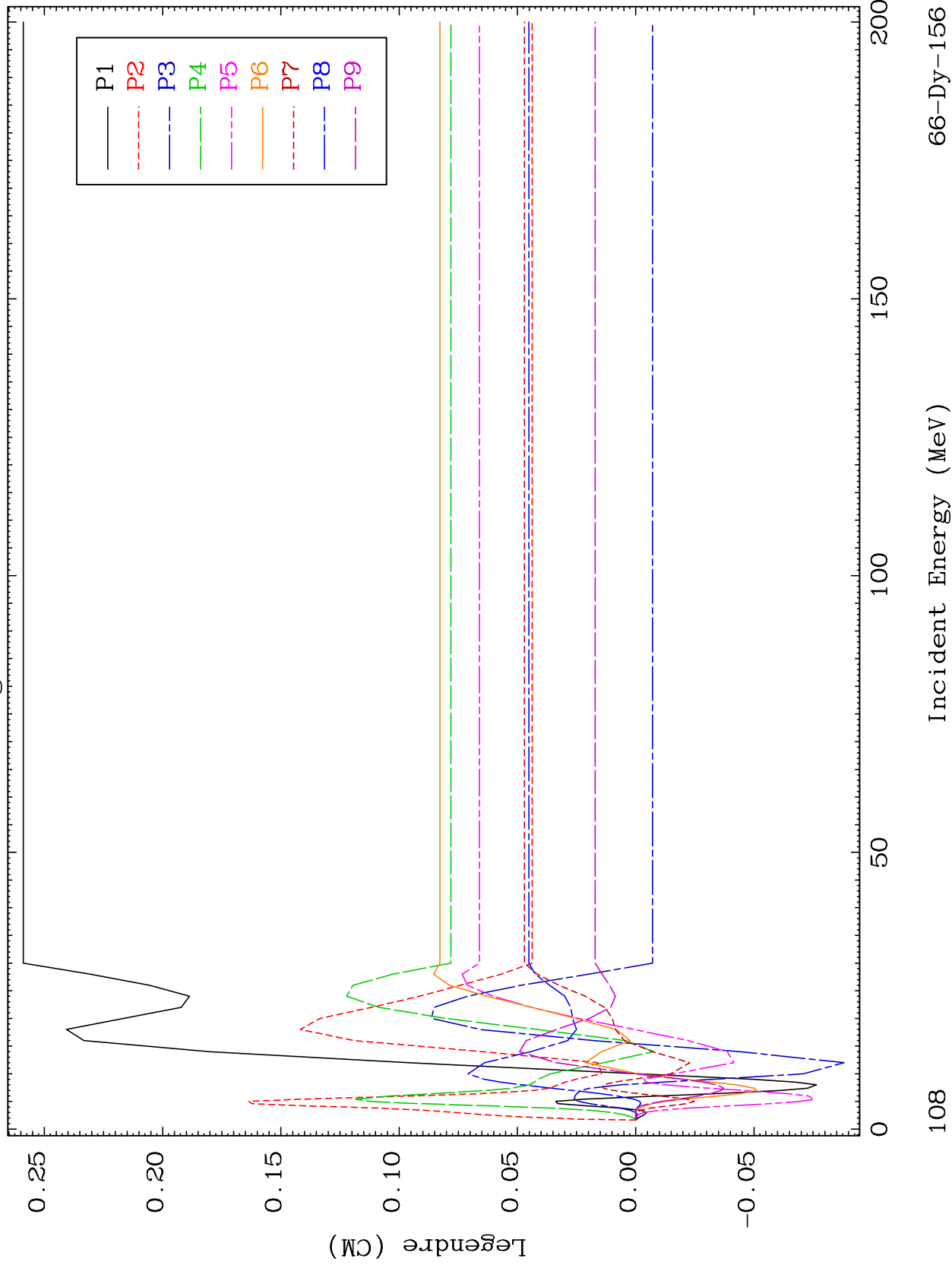
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

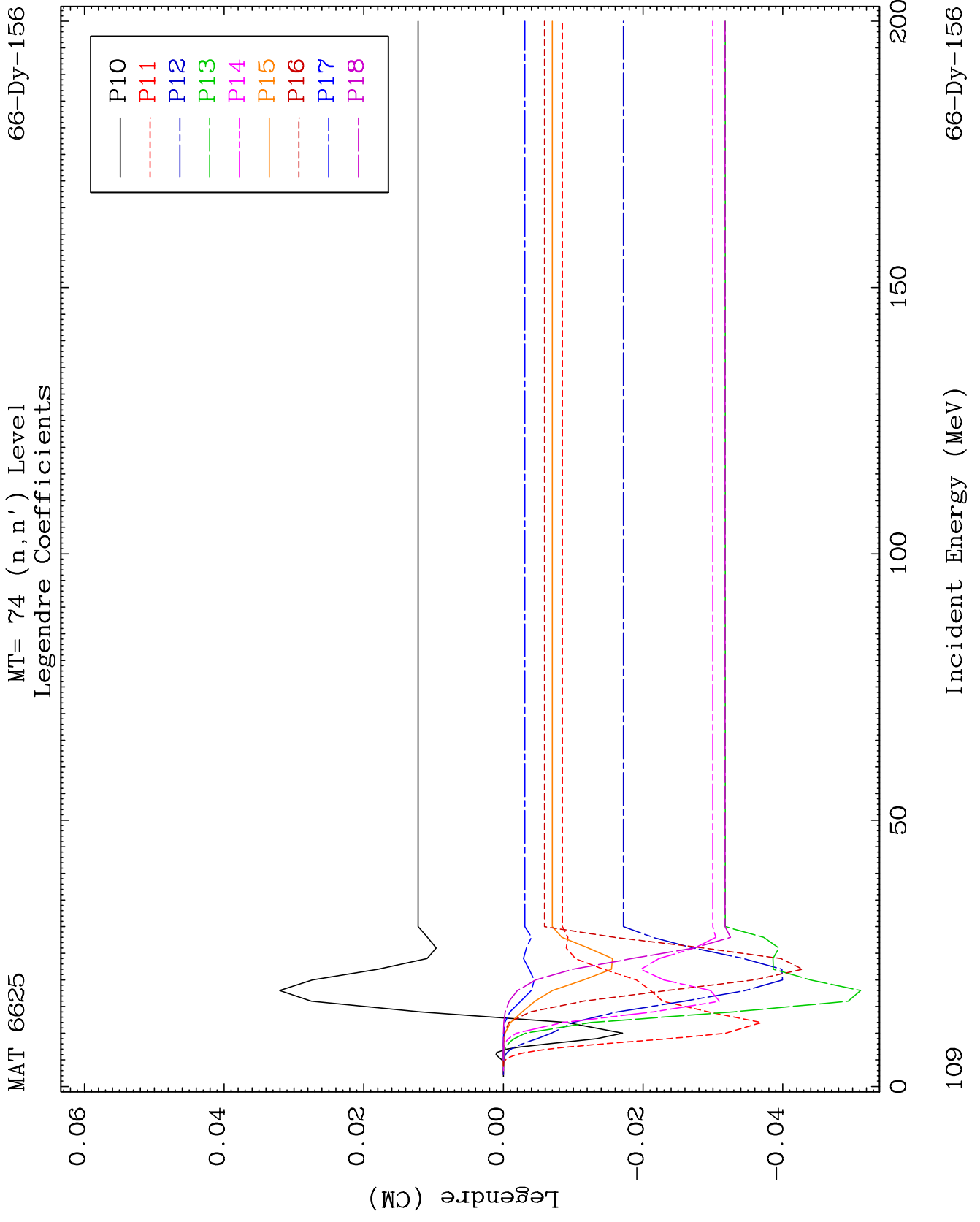
66-Dy-156



66-Dy-156

Incident Energy (MeV)

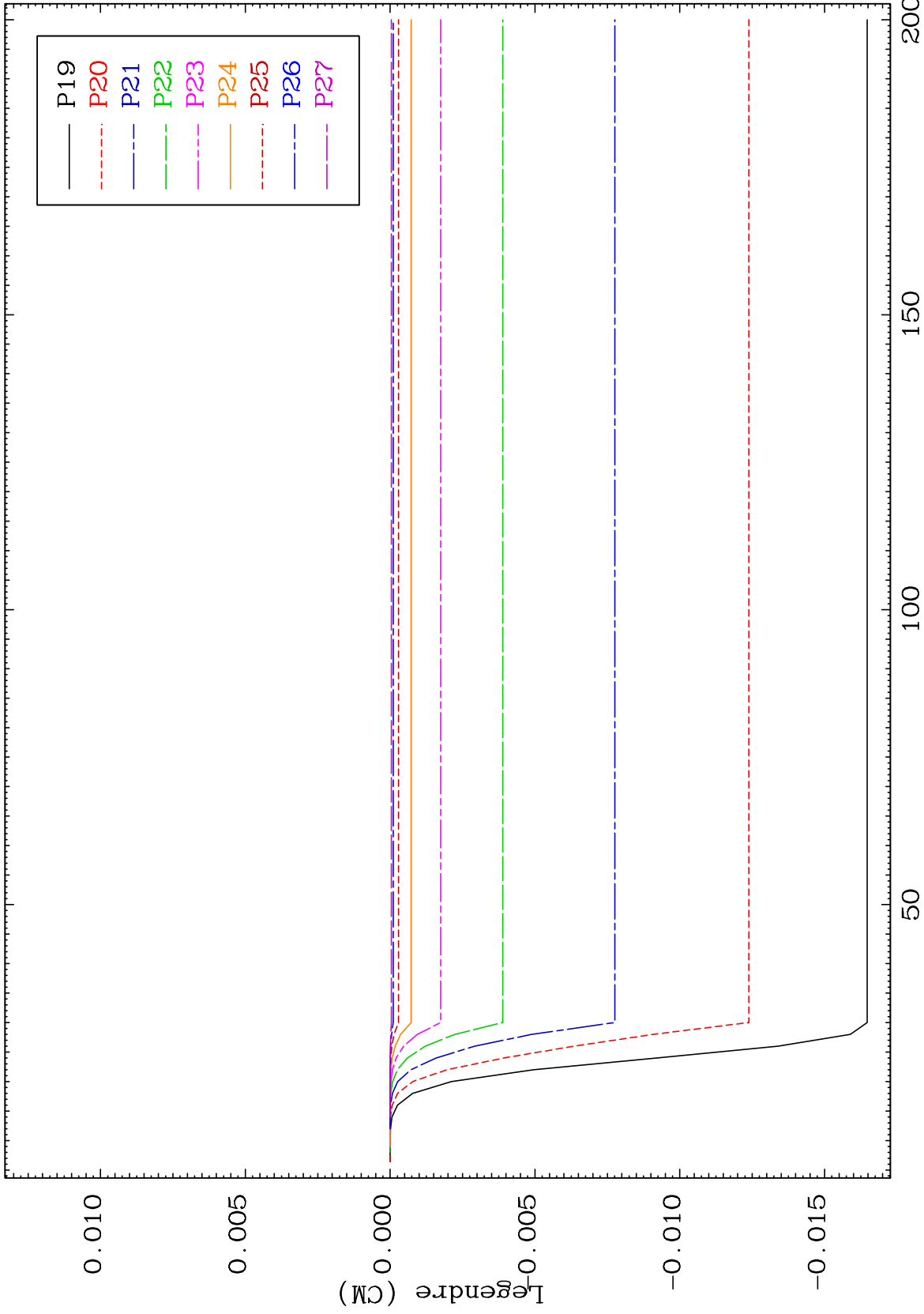
108



MAT 6625

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

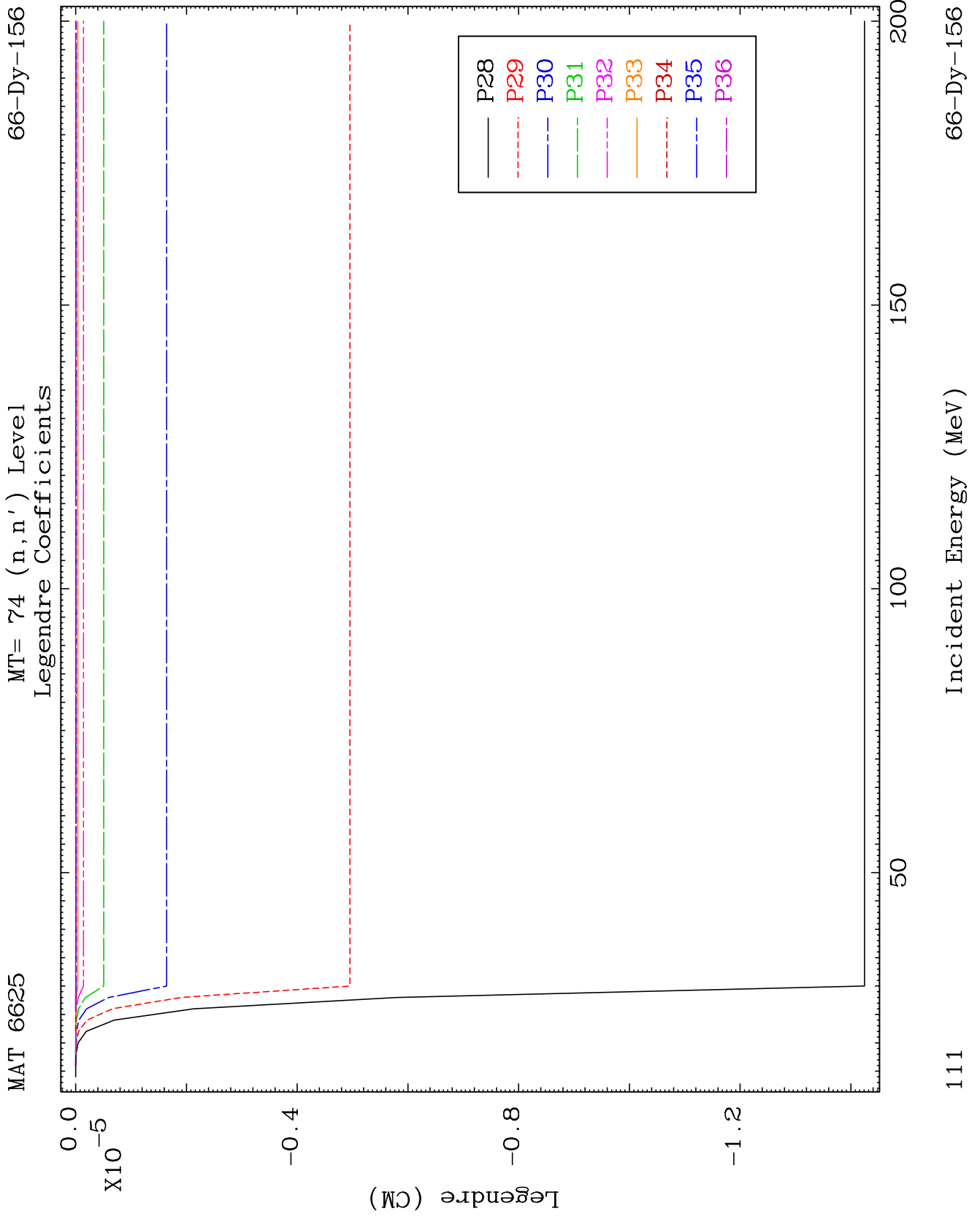
66-Dy-156



110

Incident Energy (MeV)

66-Dy-156

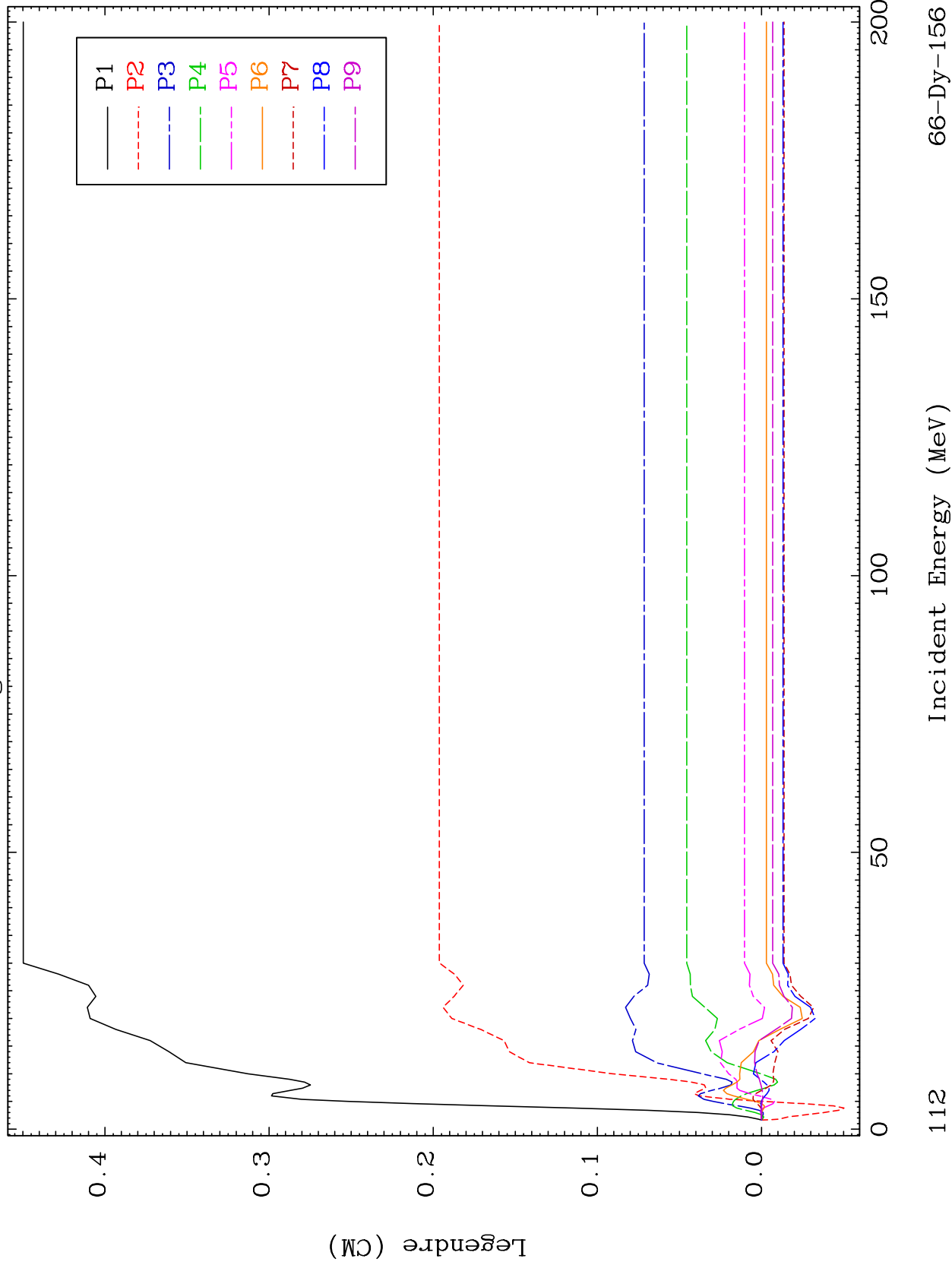




MAT 6625

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

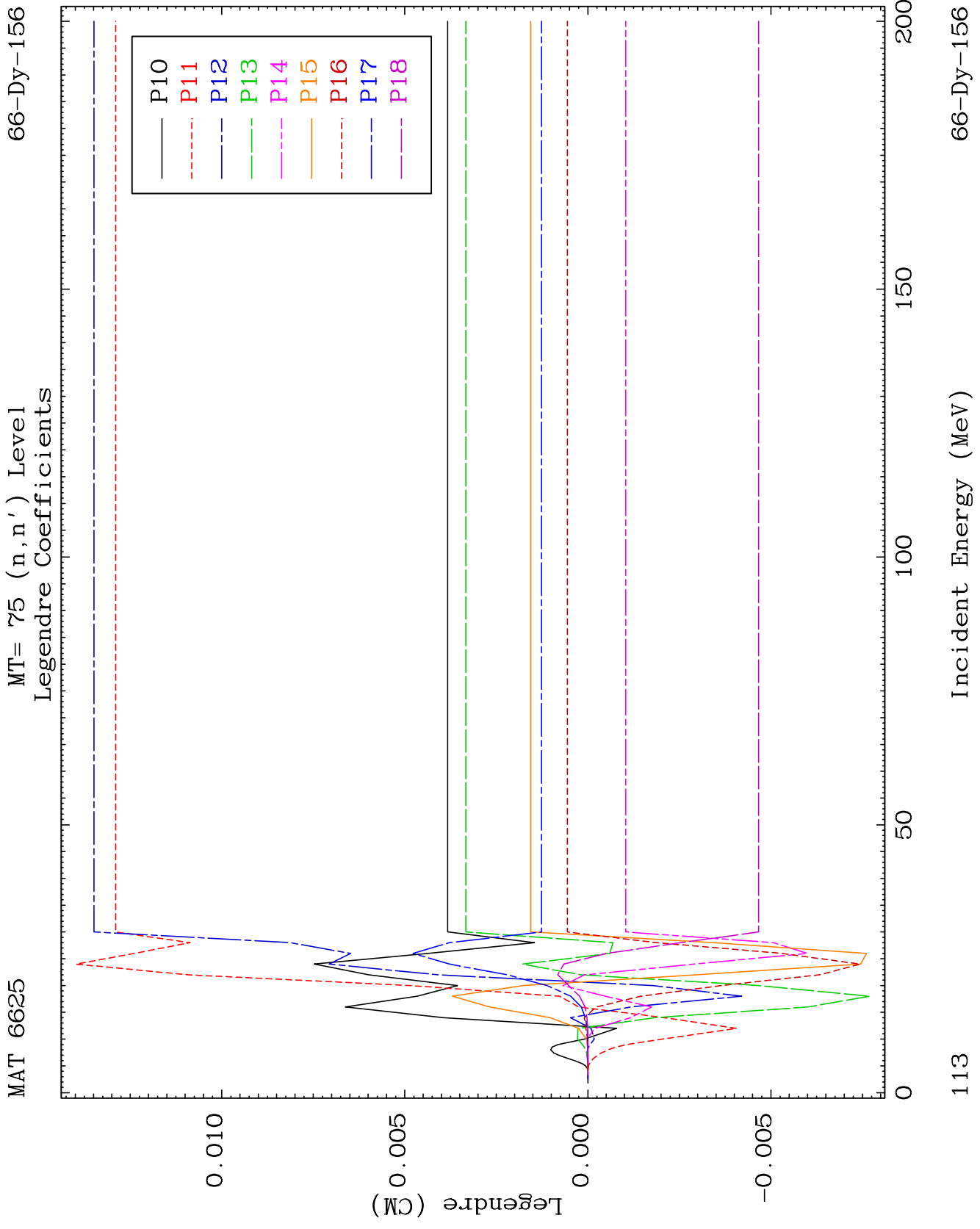
66-Dy-156



66-Dy-156

Incident Energy (MeV)

112



66-Dy-156

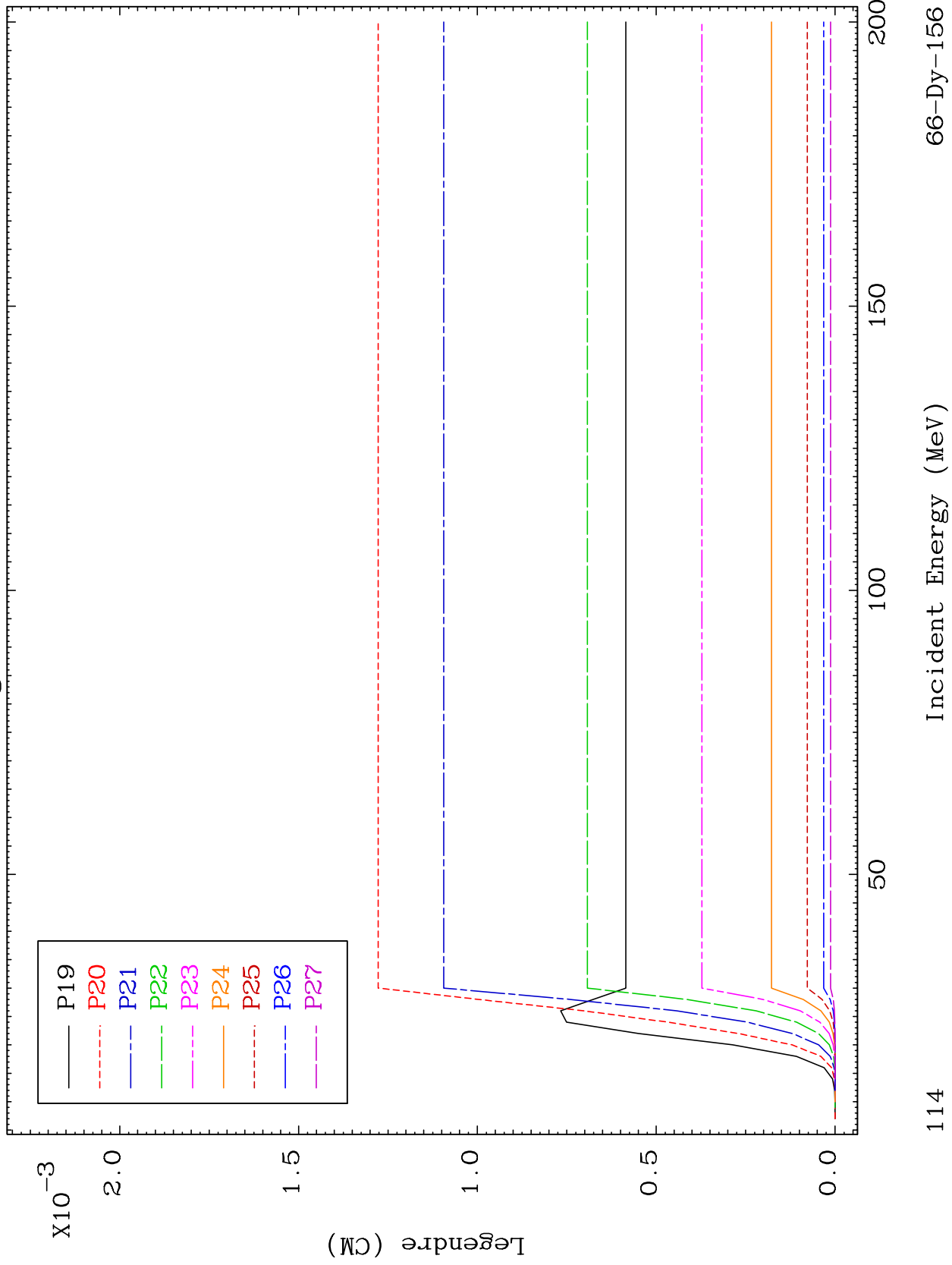
Incident Energy (MeV)

113

MAT 6625

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

66-Dy-156

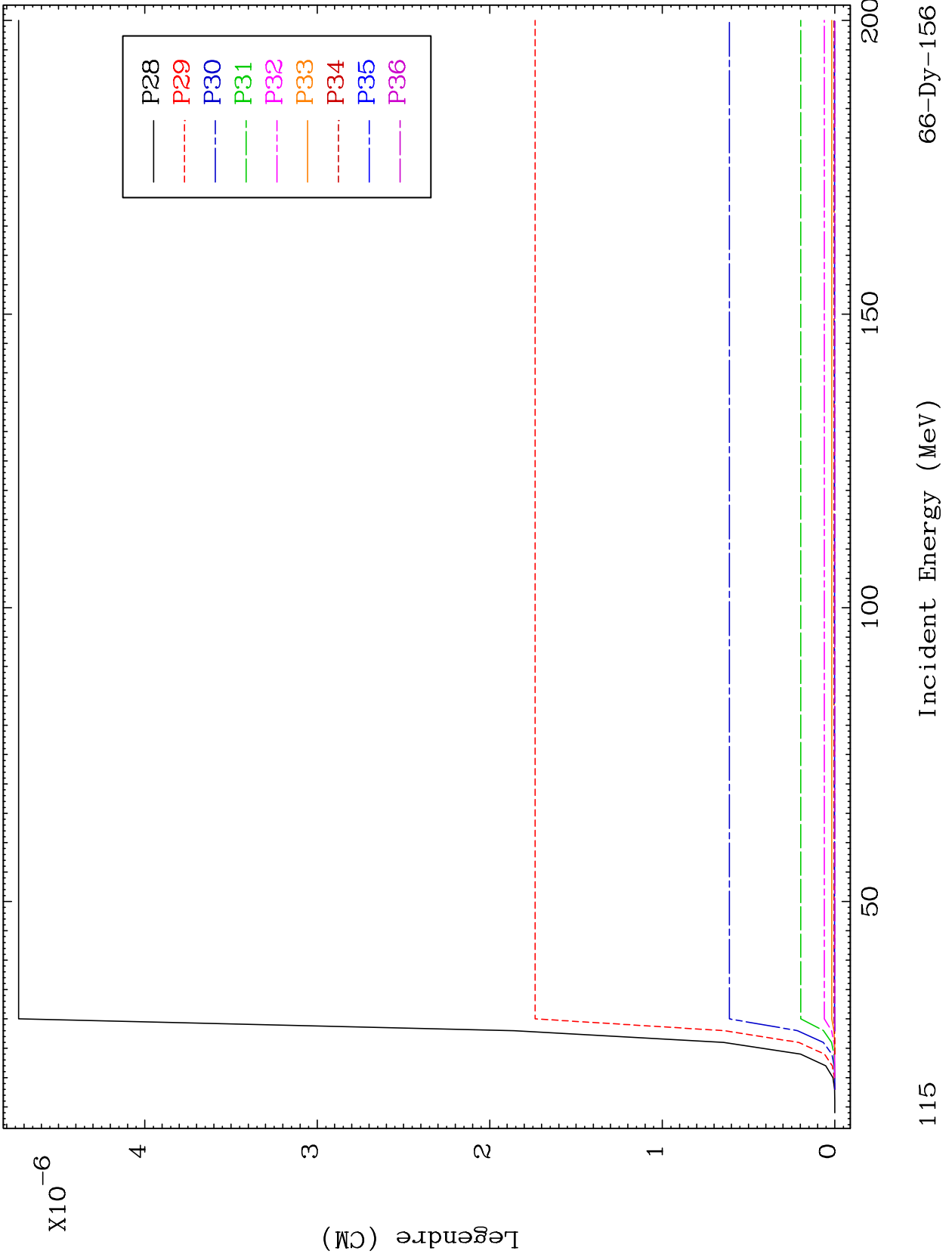


114

MAT 6625

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

66-Dy-156



115

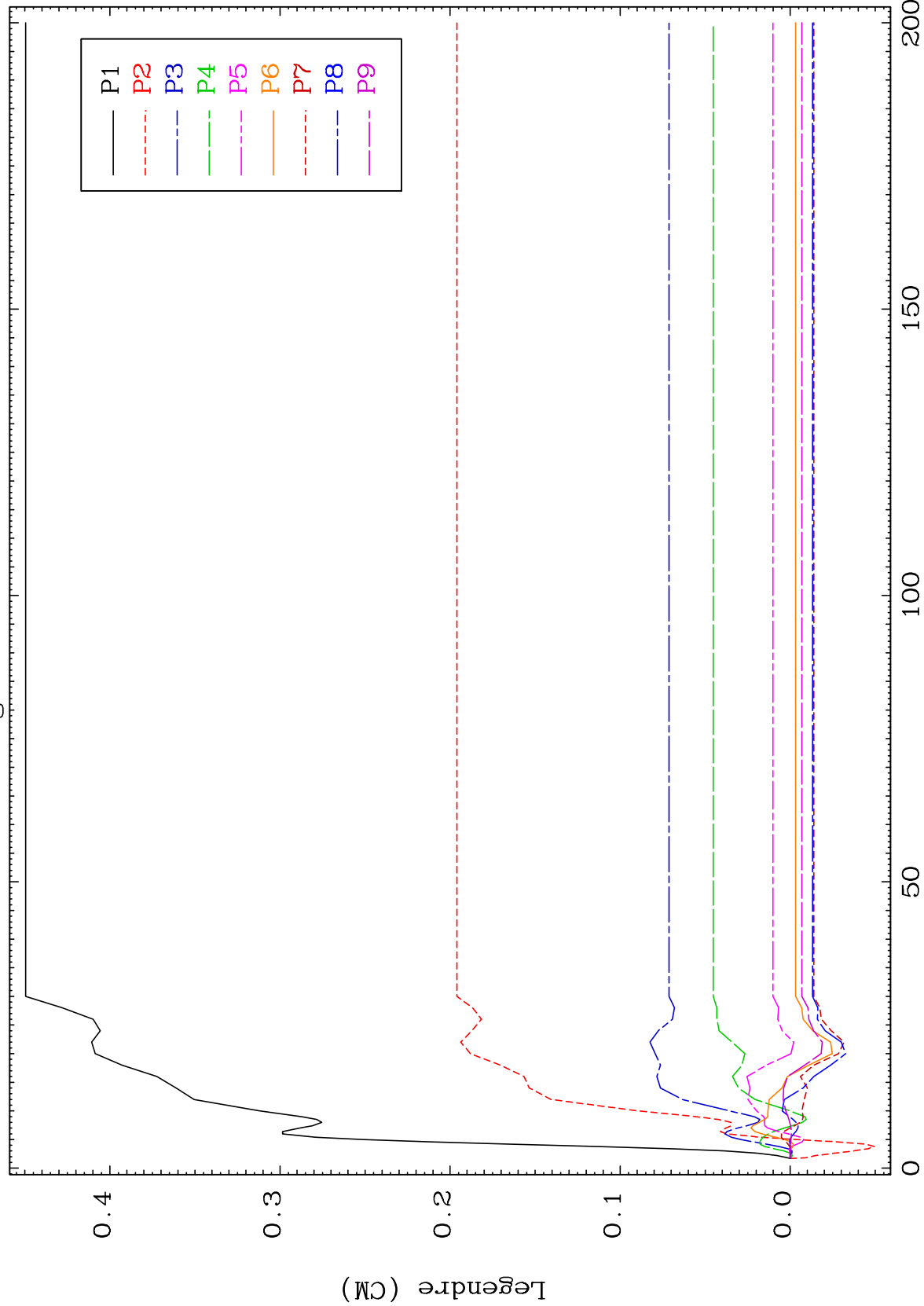
Incident Energy (MeV)

66-Dy-156

MAT 6625

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

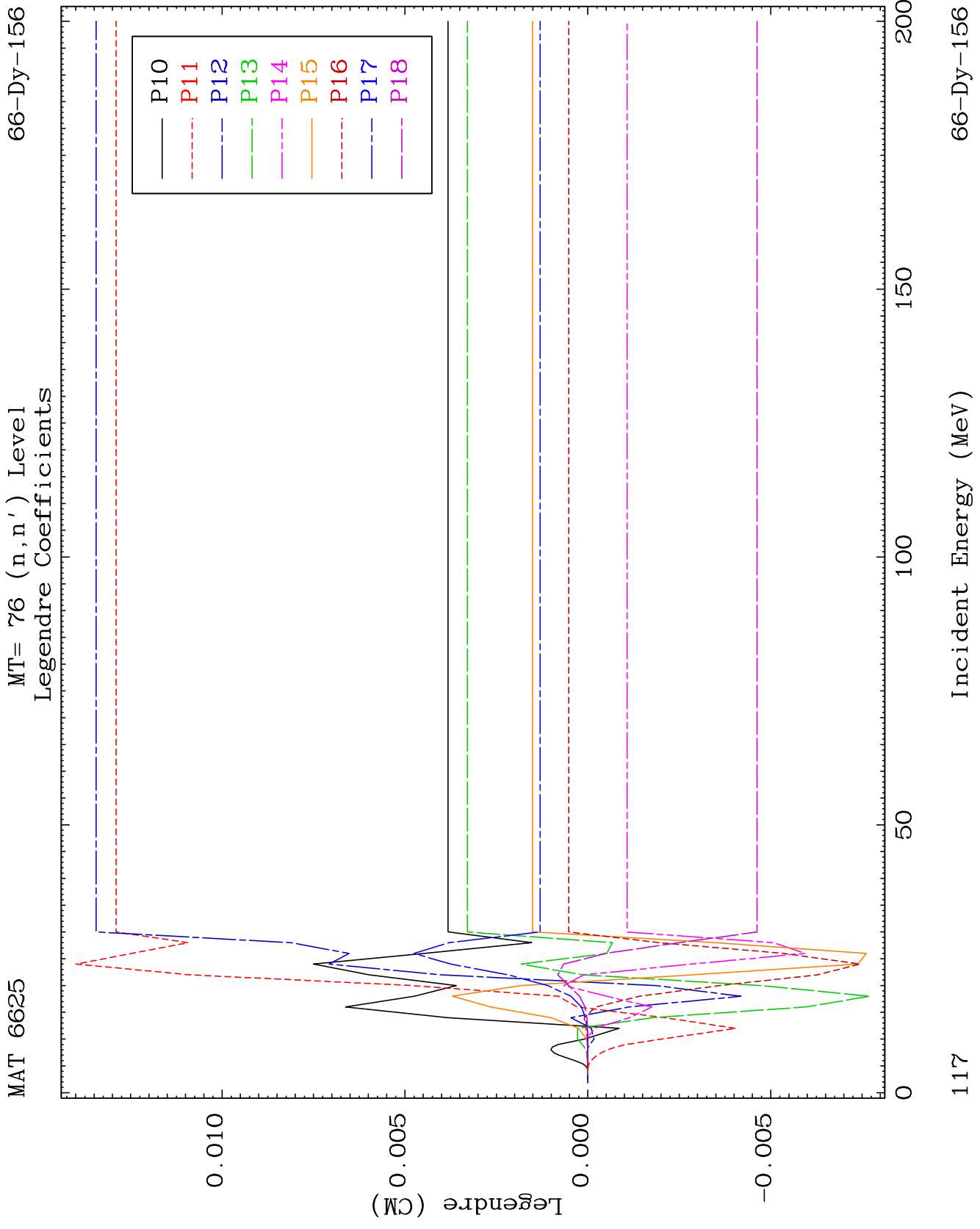
66-Dy-156



66-Dy-156

Incident Energy (MeV)

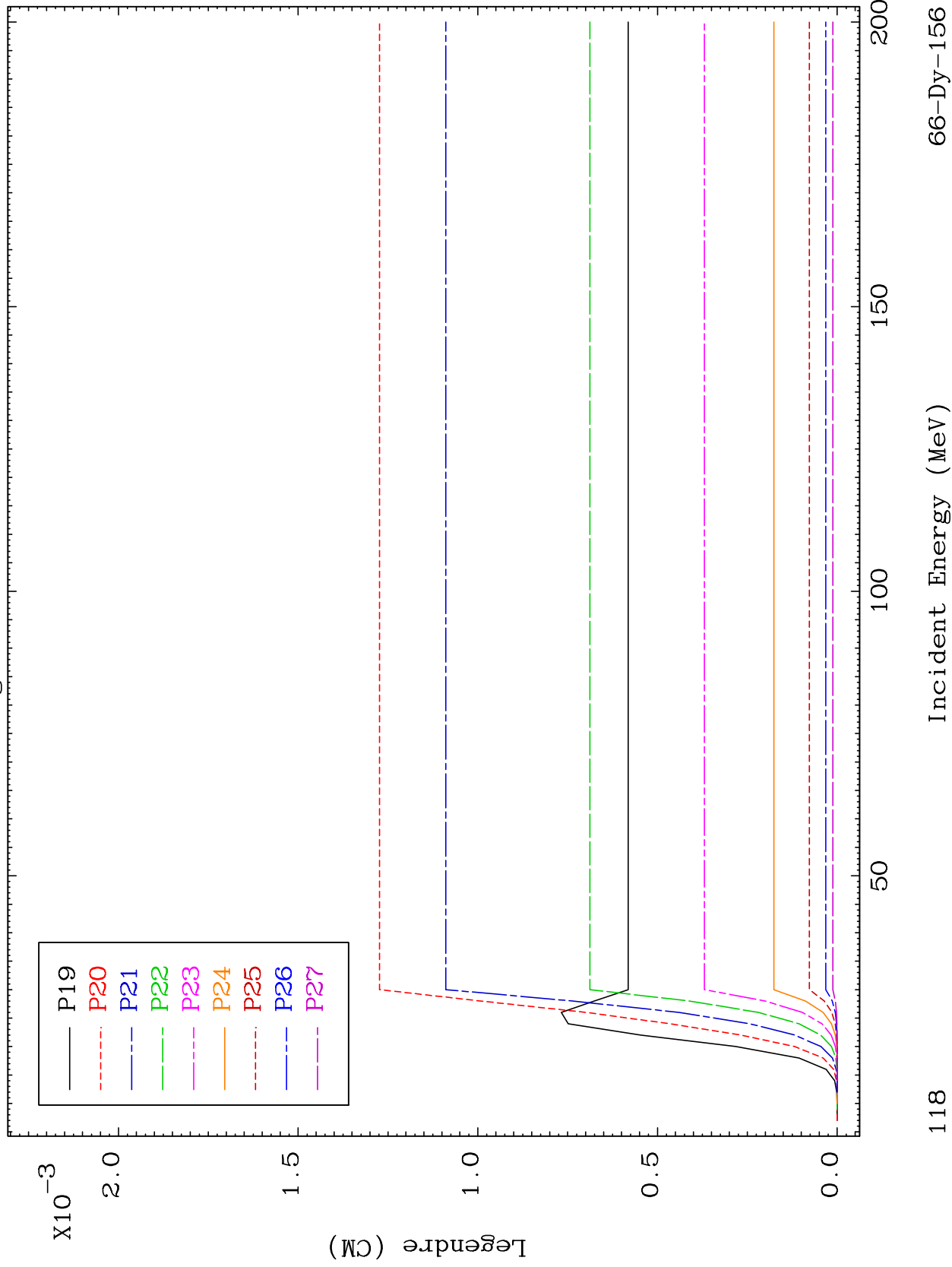
116



MAT 6625

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

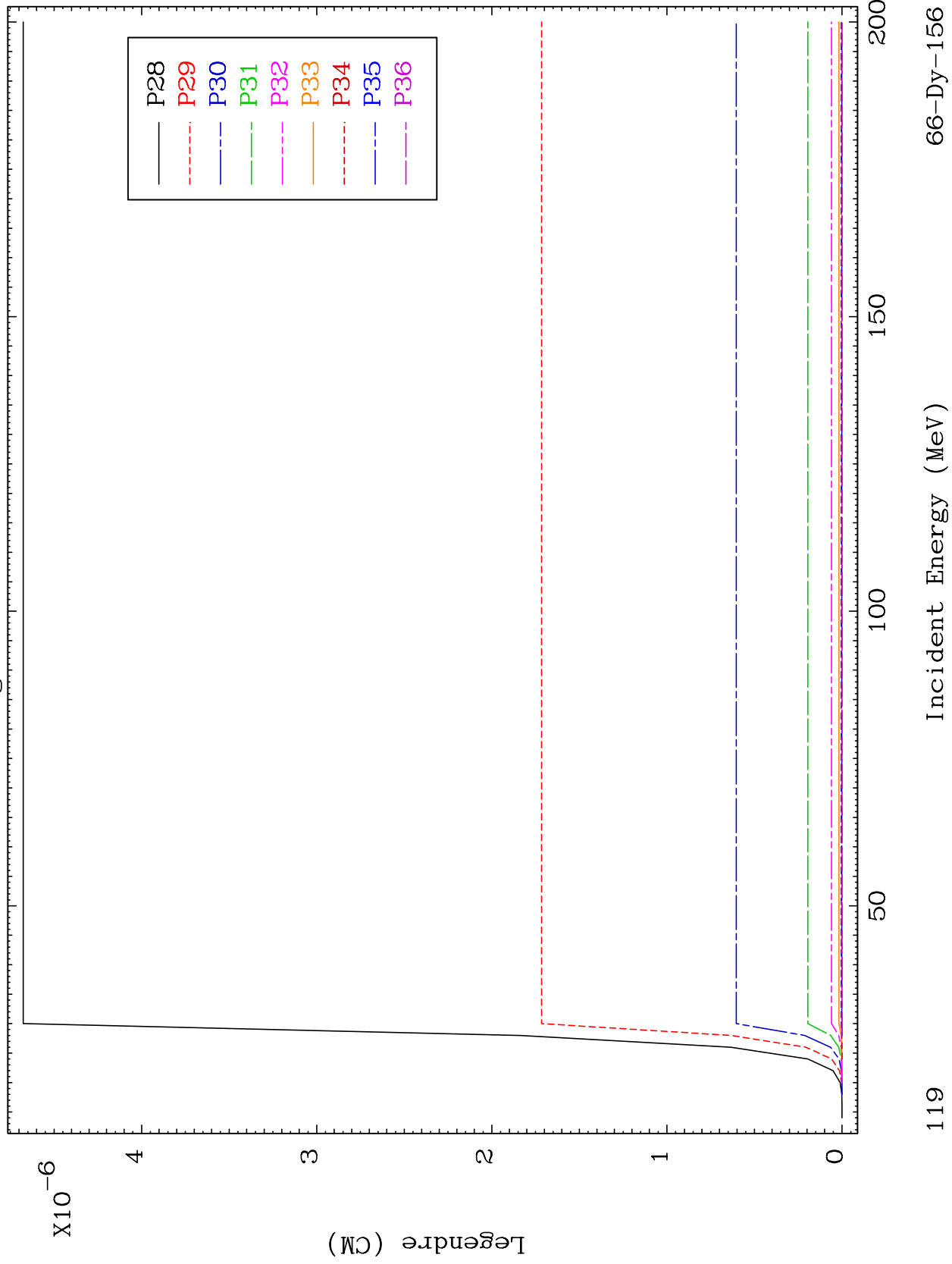
66-Dy-156



MAT 6625

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

66-Dy-156



119

Incident Energy (MeV)

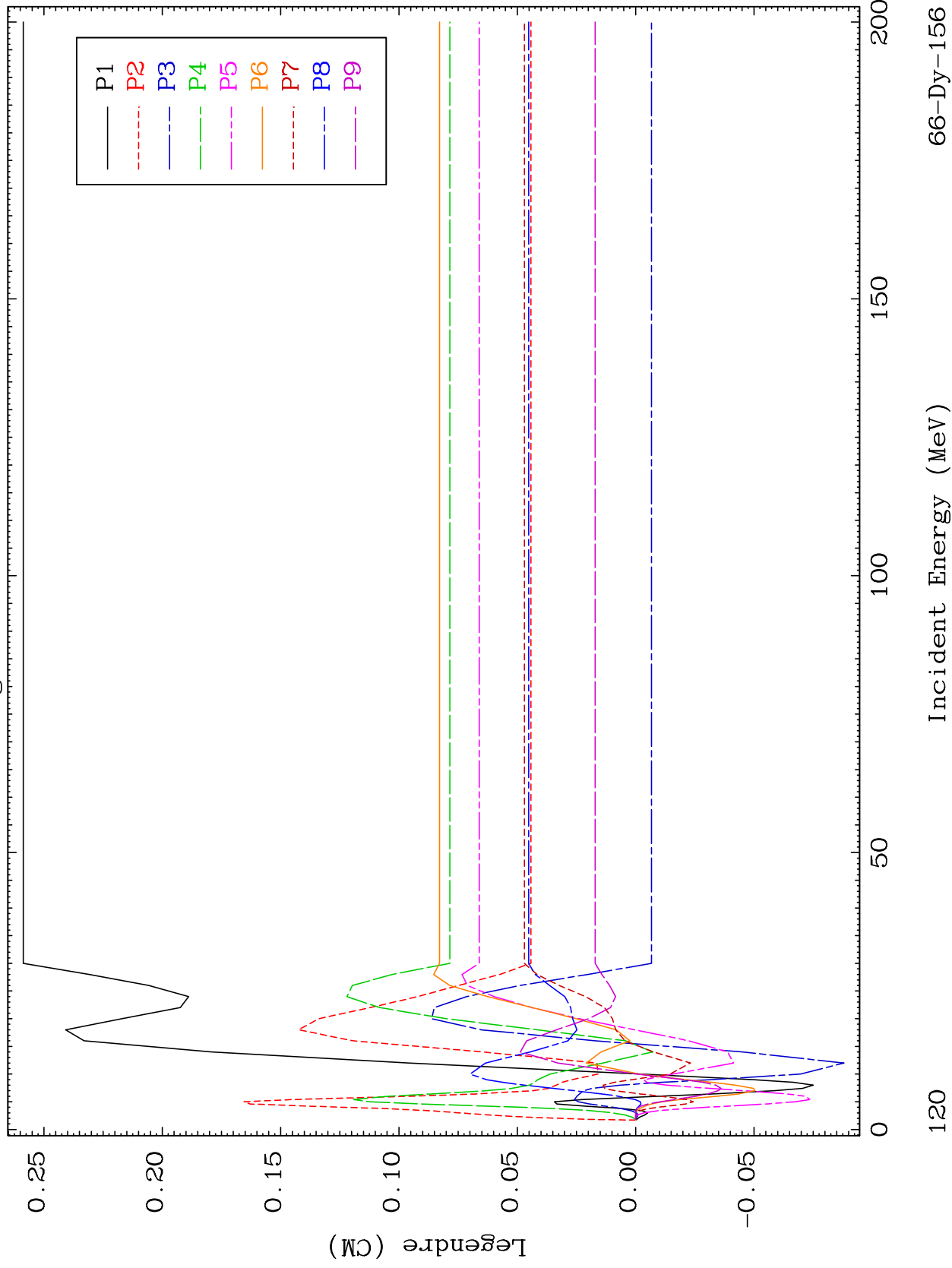
66-Dy-156



MAT 6625

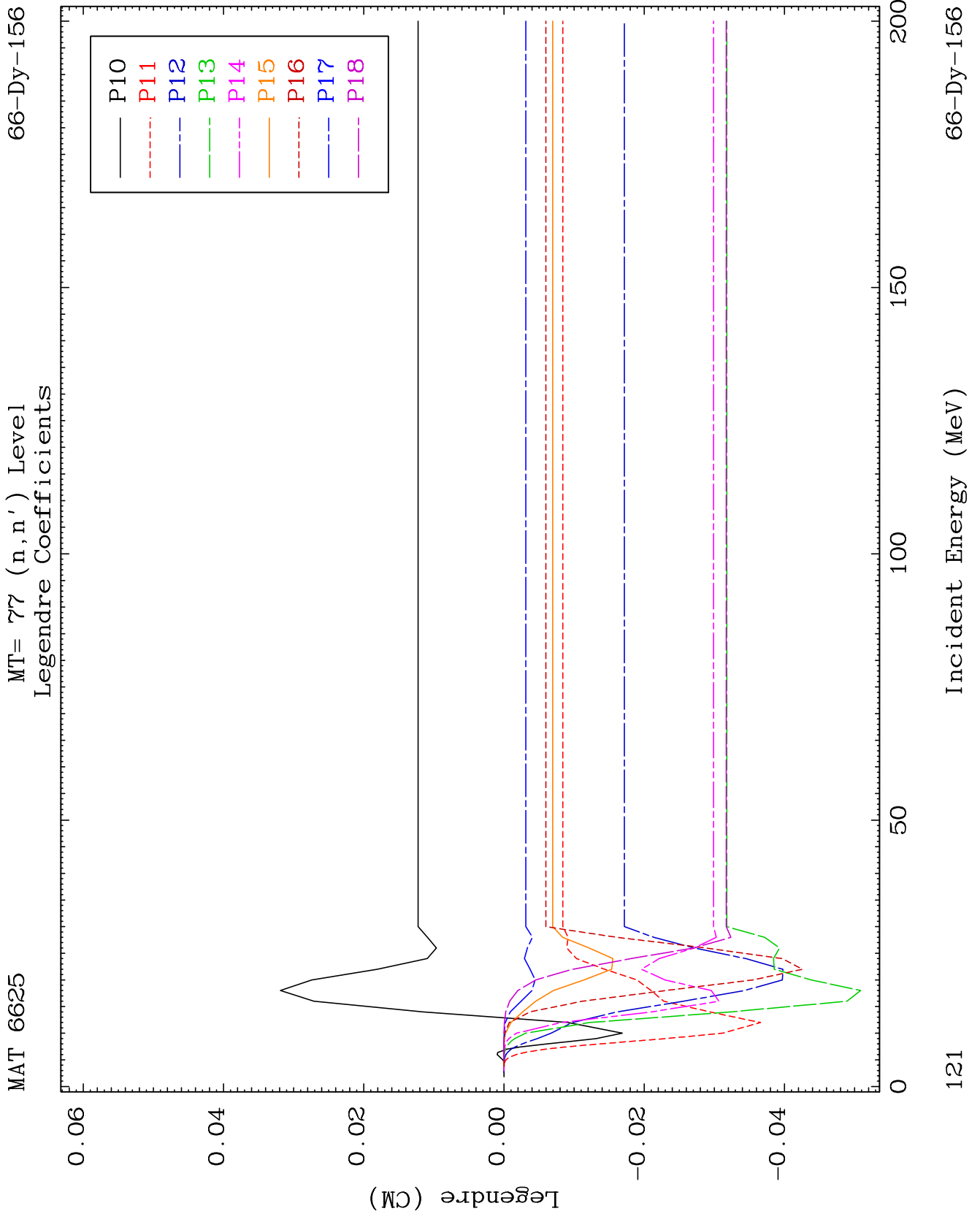
MT= 77 (n,n') Level  
Legendre Coefficients

66-Dy-156



66-Dy-156

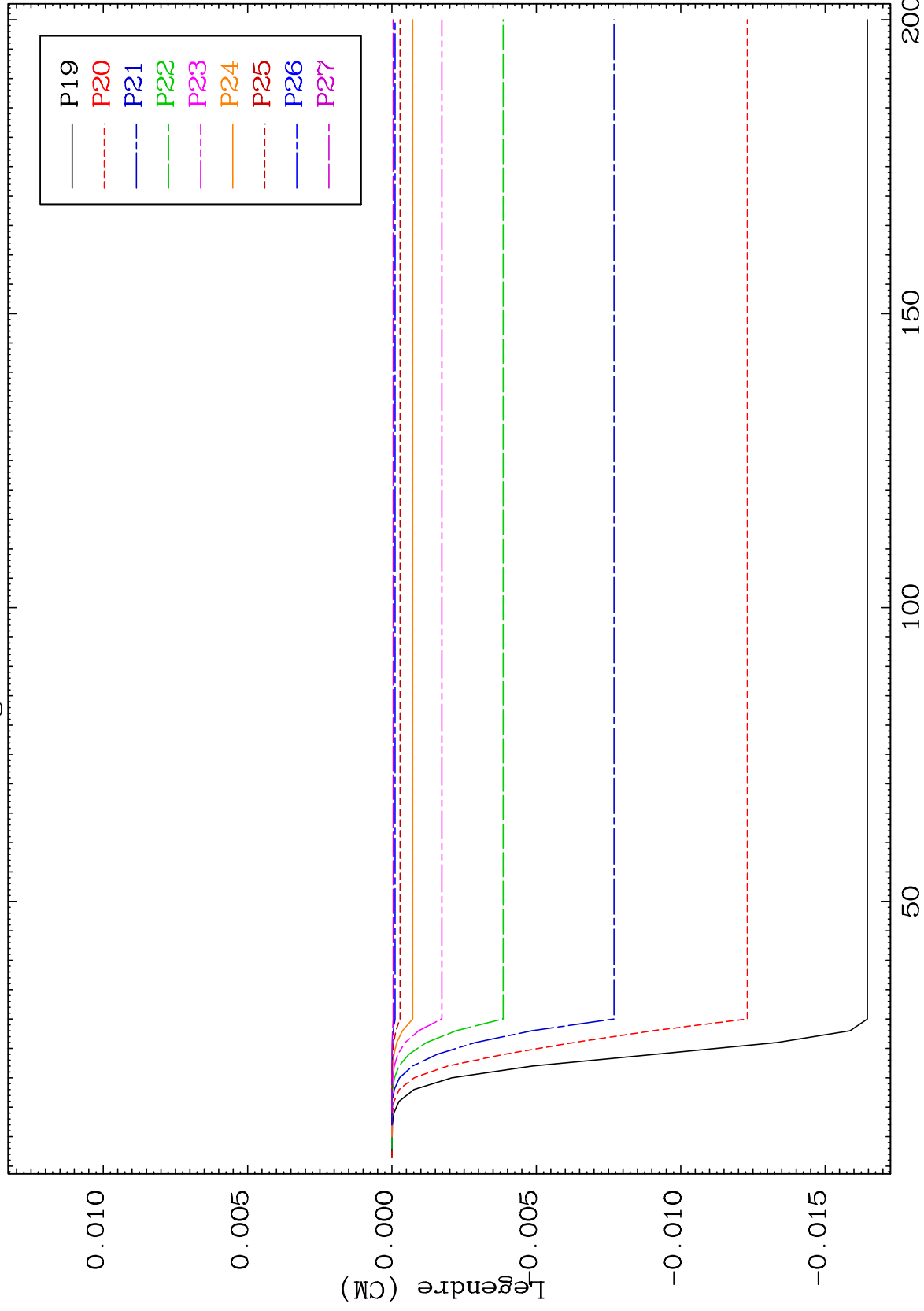
Incident Energy (MeV)



MAT 6625

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

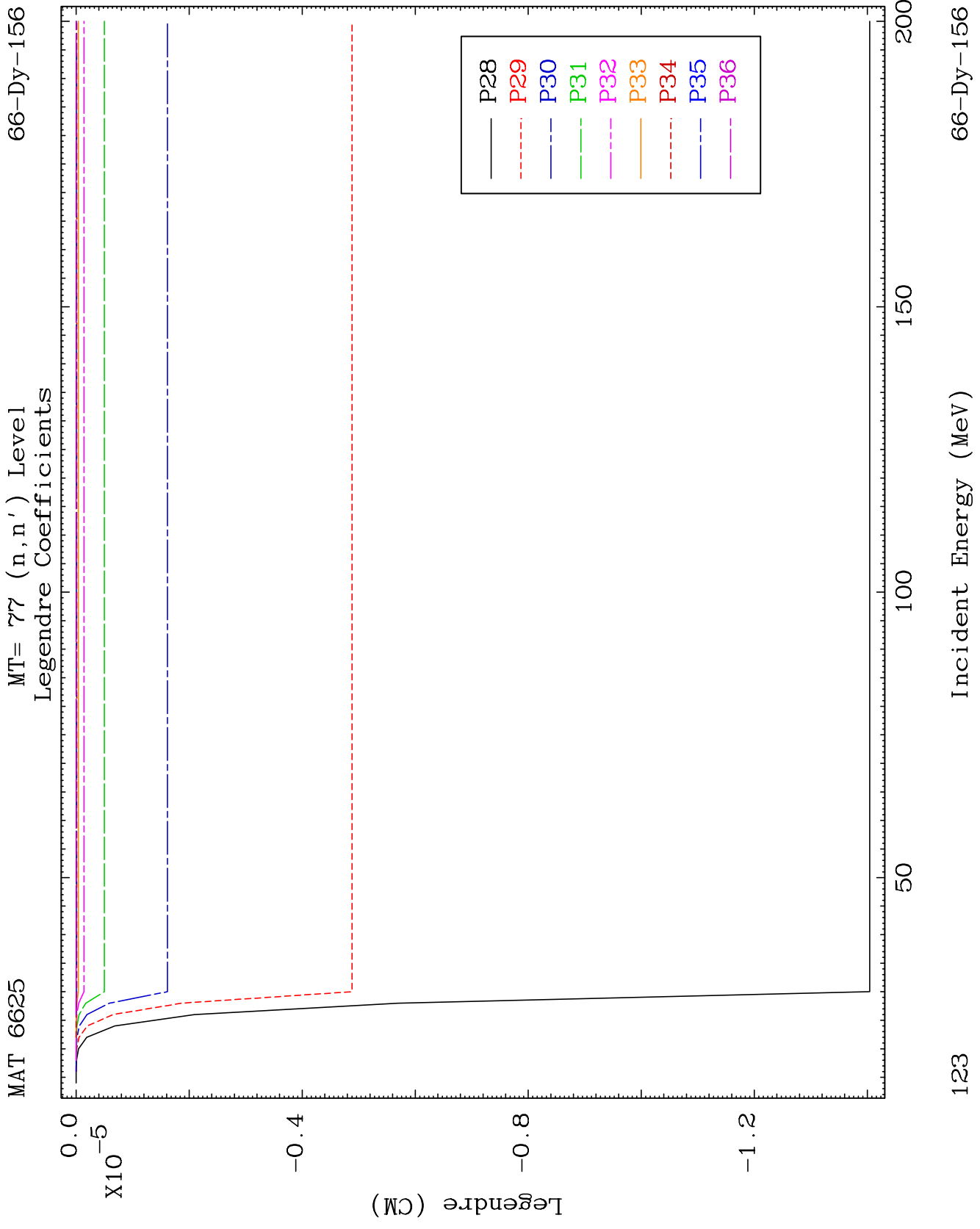
66-Dy-156



122

Incident Energy (MeV)

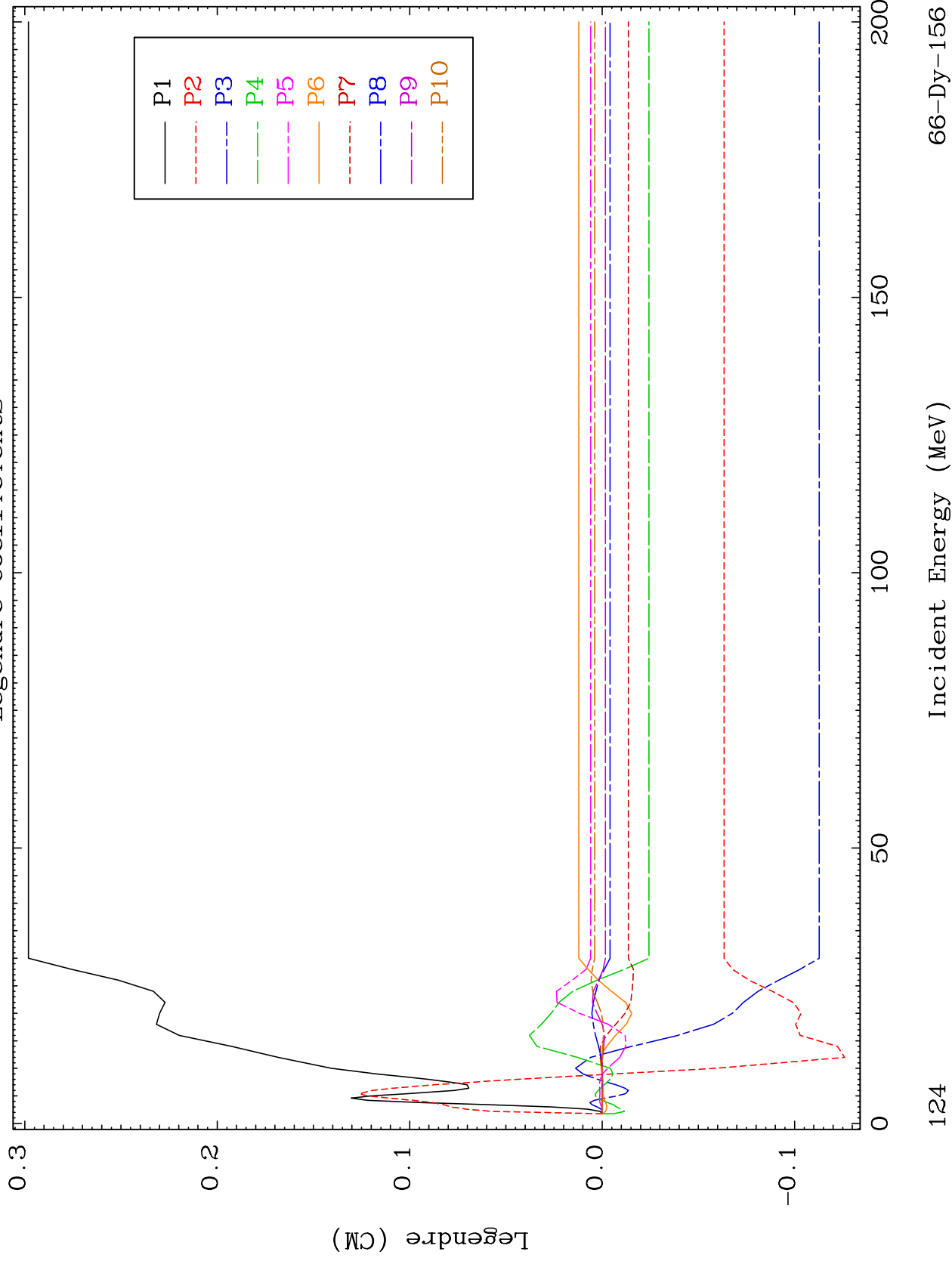
66-Dy-156



MAT 6625

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

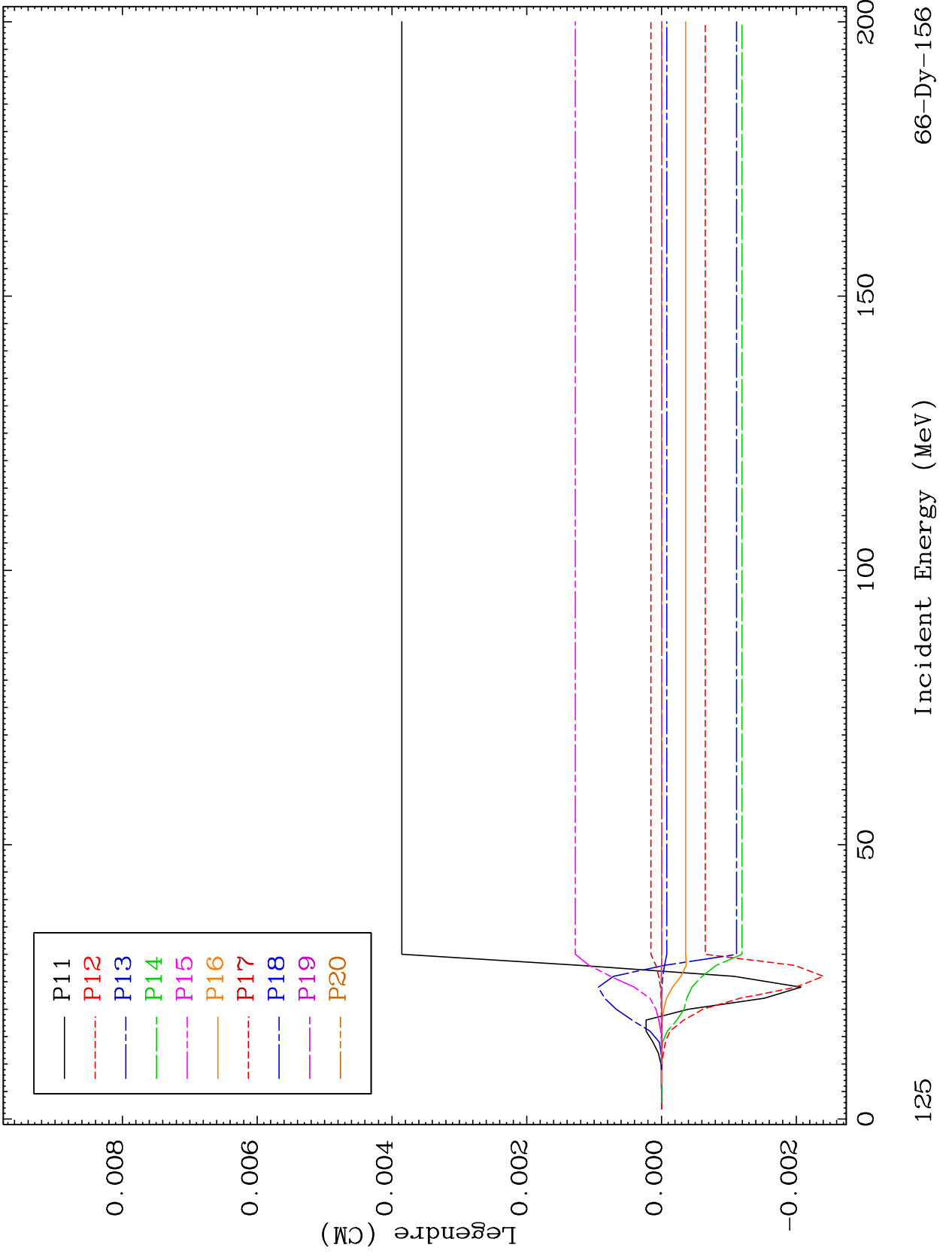
66-Dy-156



MAT 6625

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

66-Dy-156



66-Dy-156

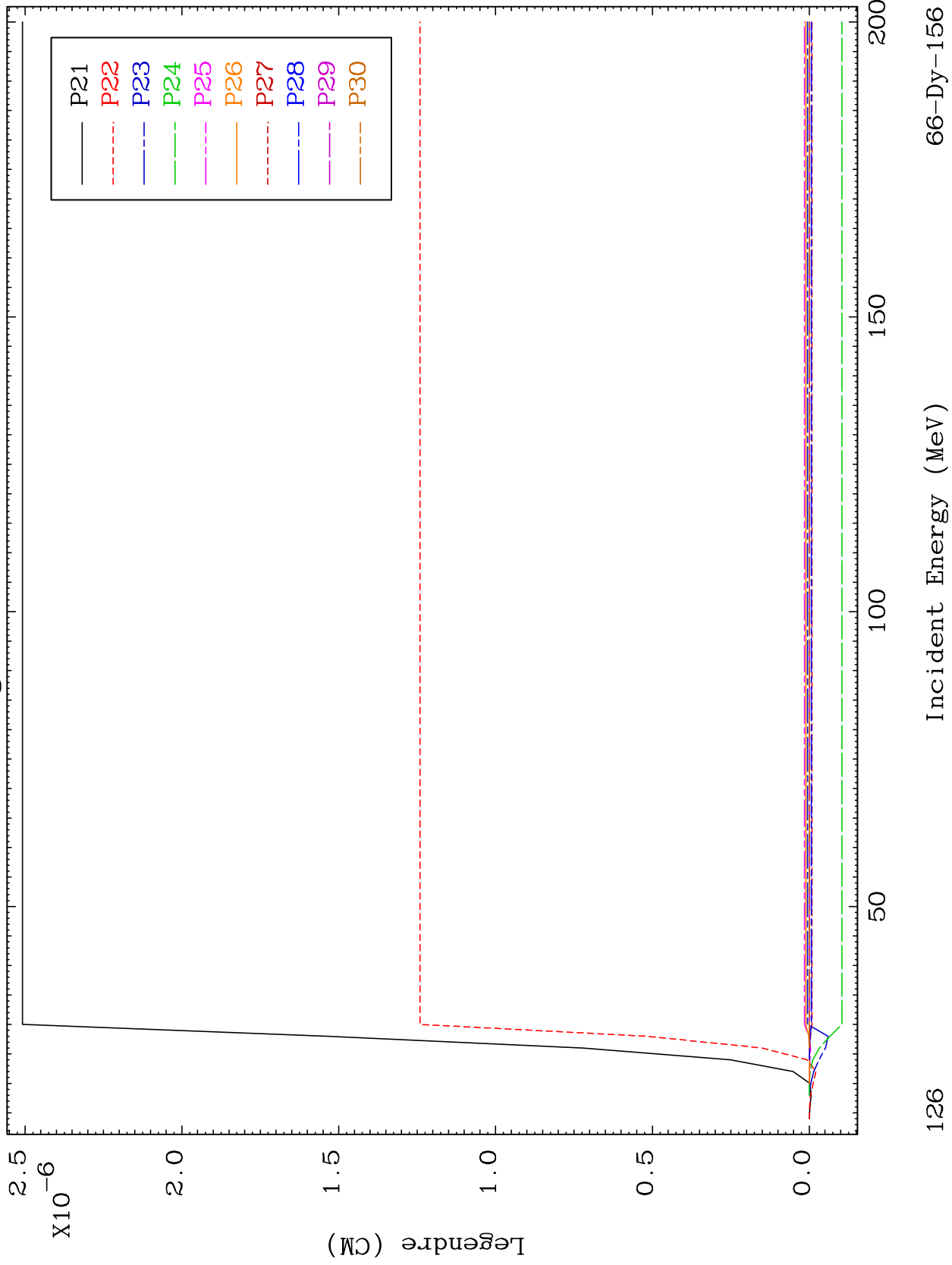
Incident Energy (MeV)

125

MAT 6625

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

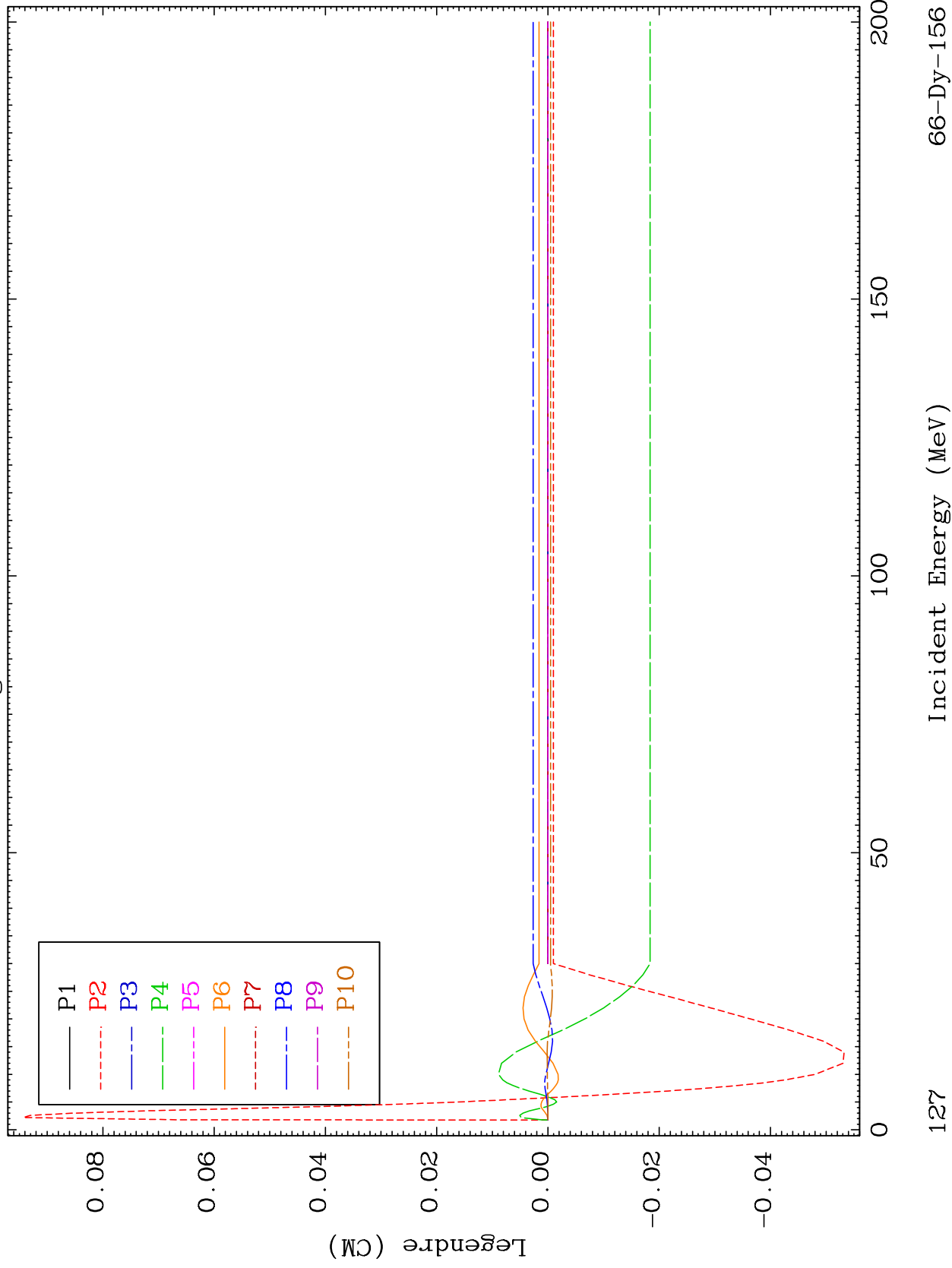
66-Dy-156



MAT 6625

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

66-Dy-156

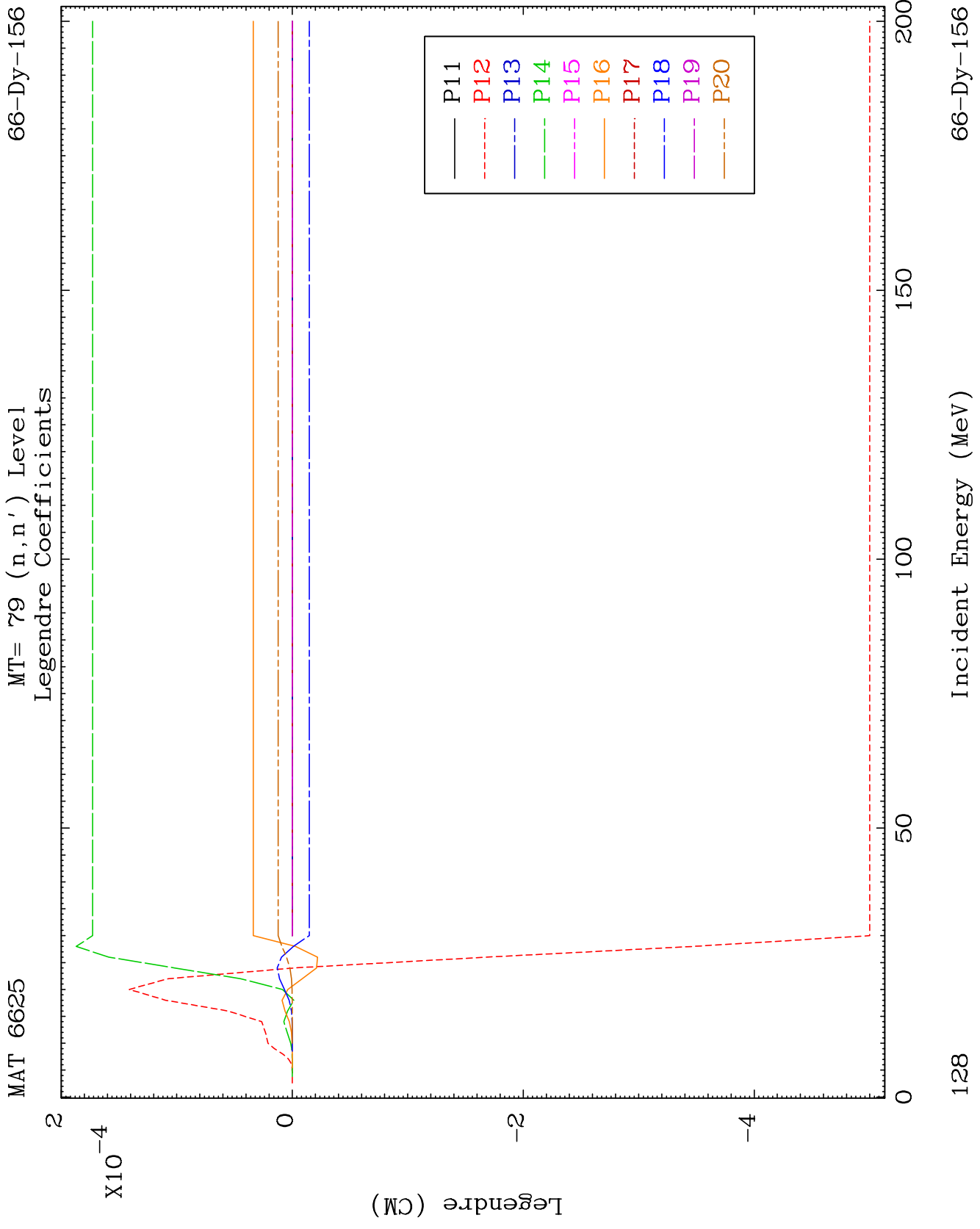


66-Dy-156

Incident Energy (MeV)

127



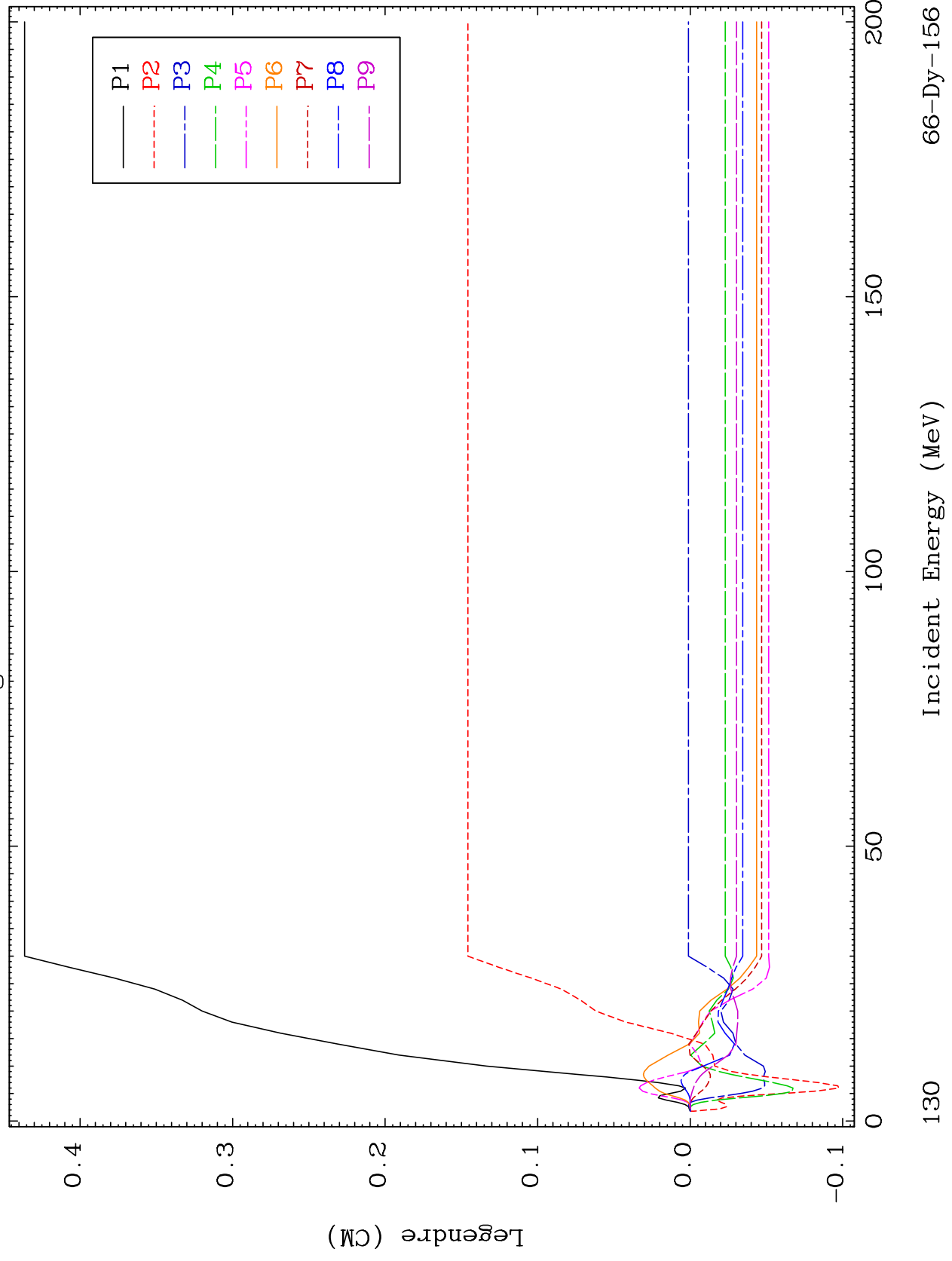




MAT 6625

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

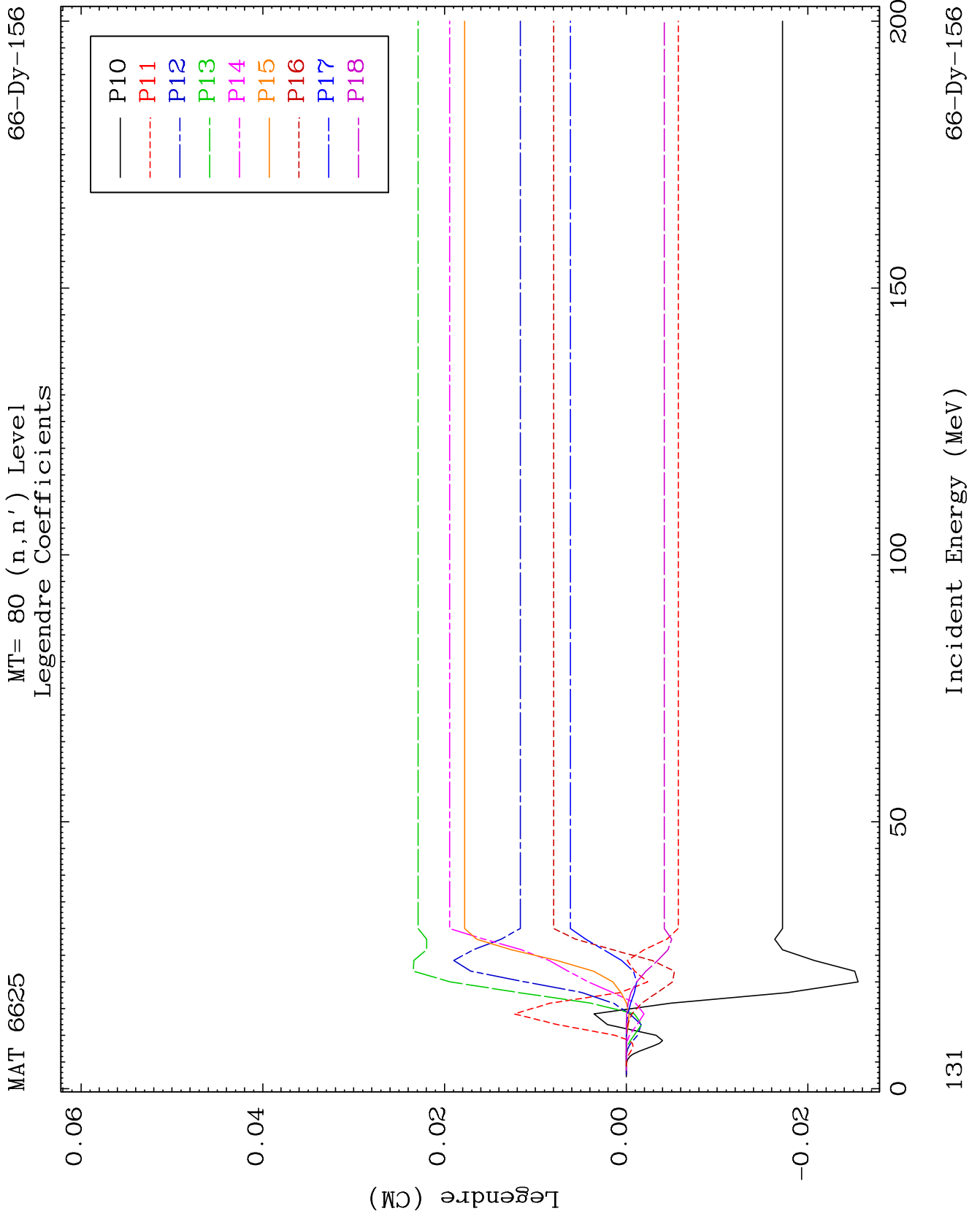
66-Dy-156

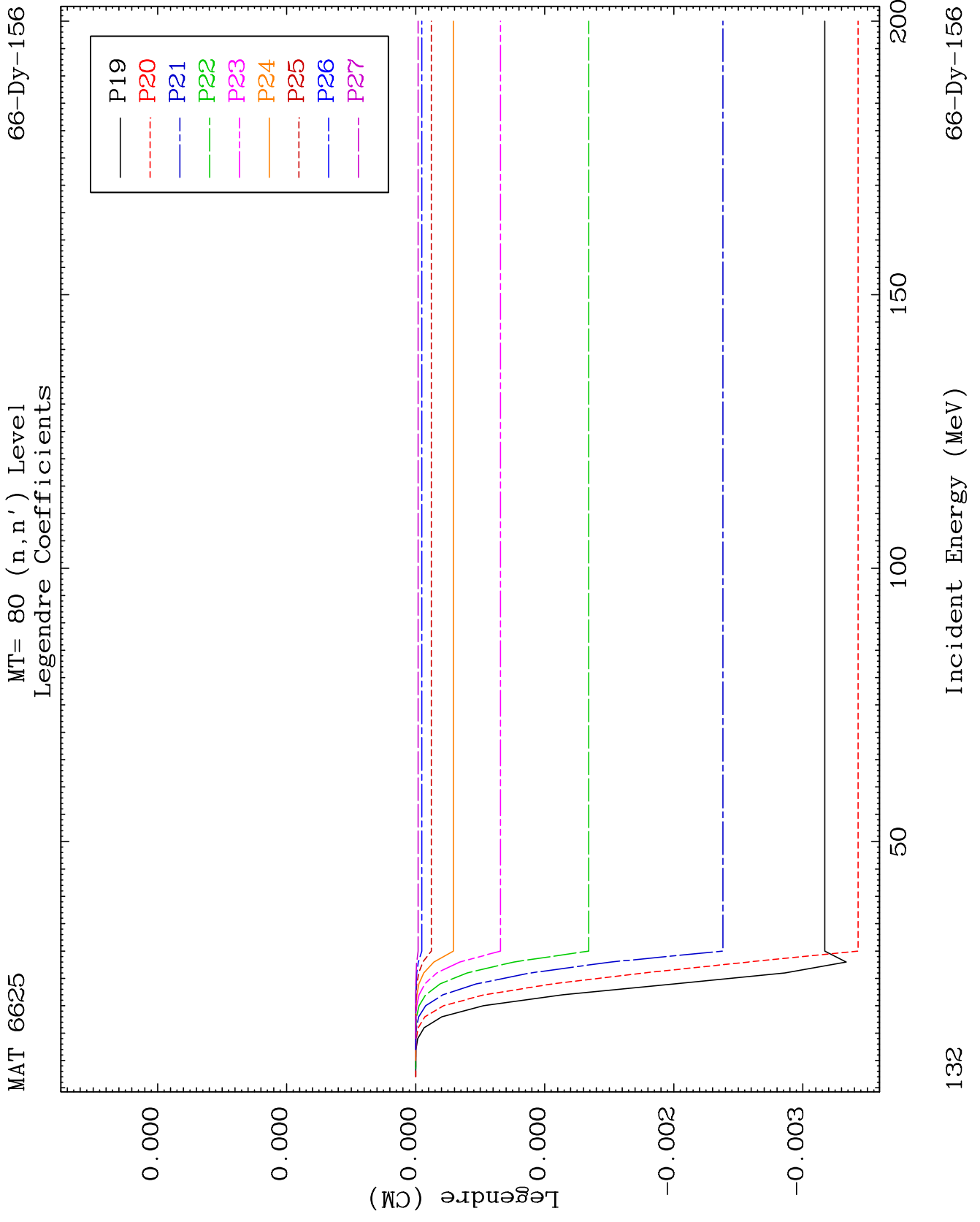


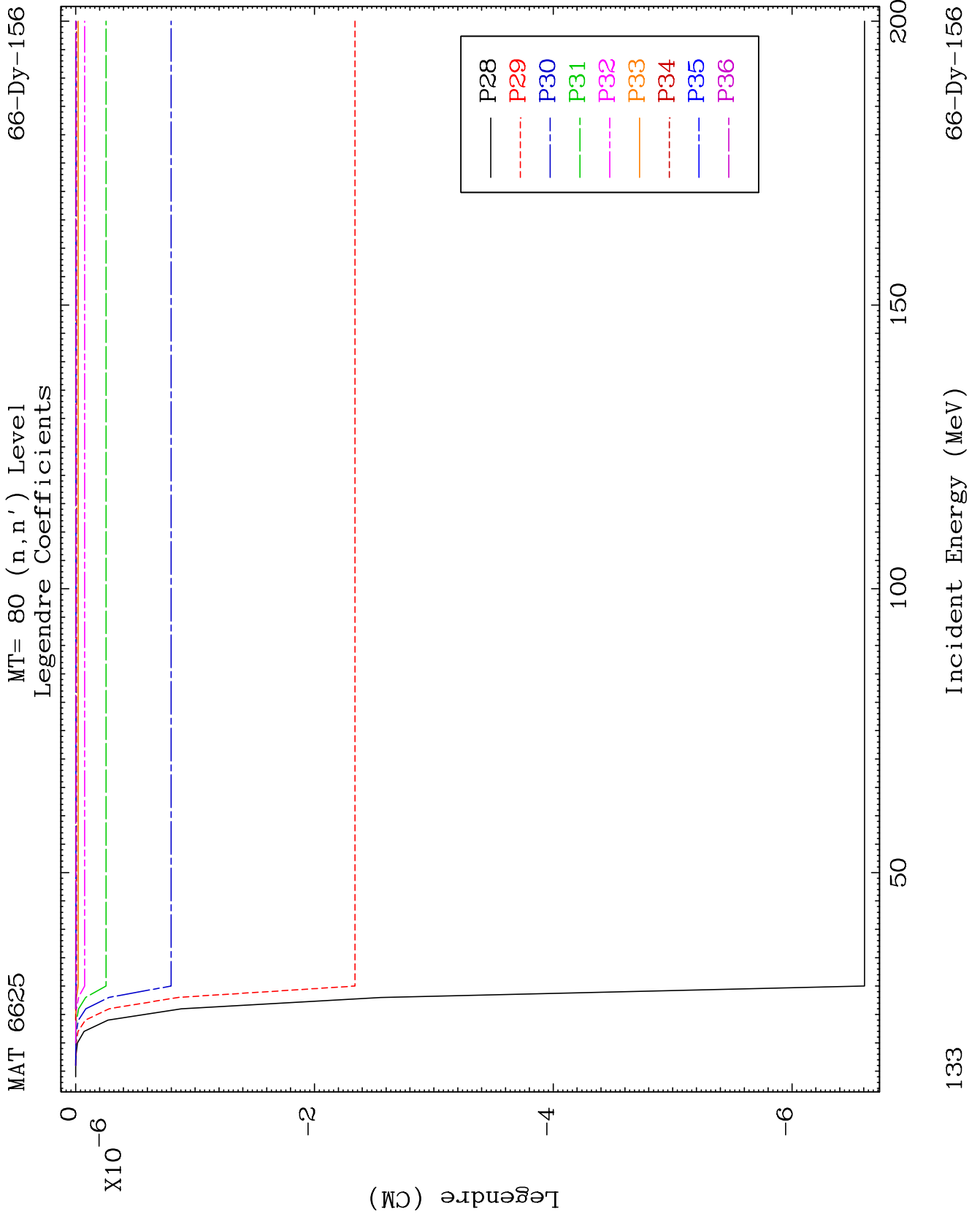
66-Dy-156

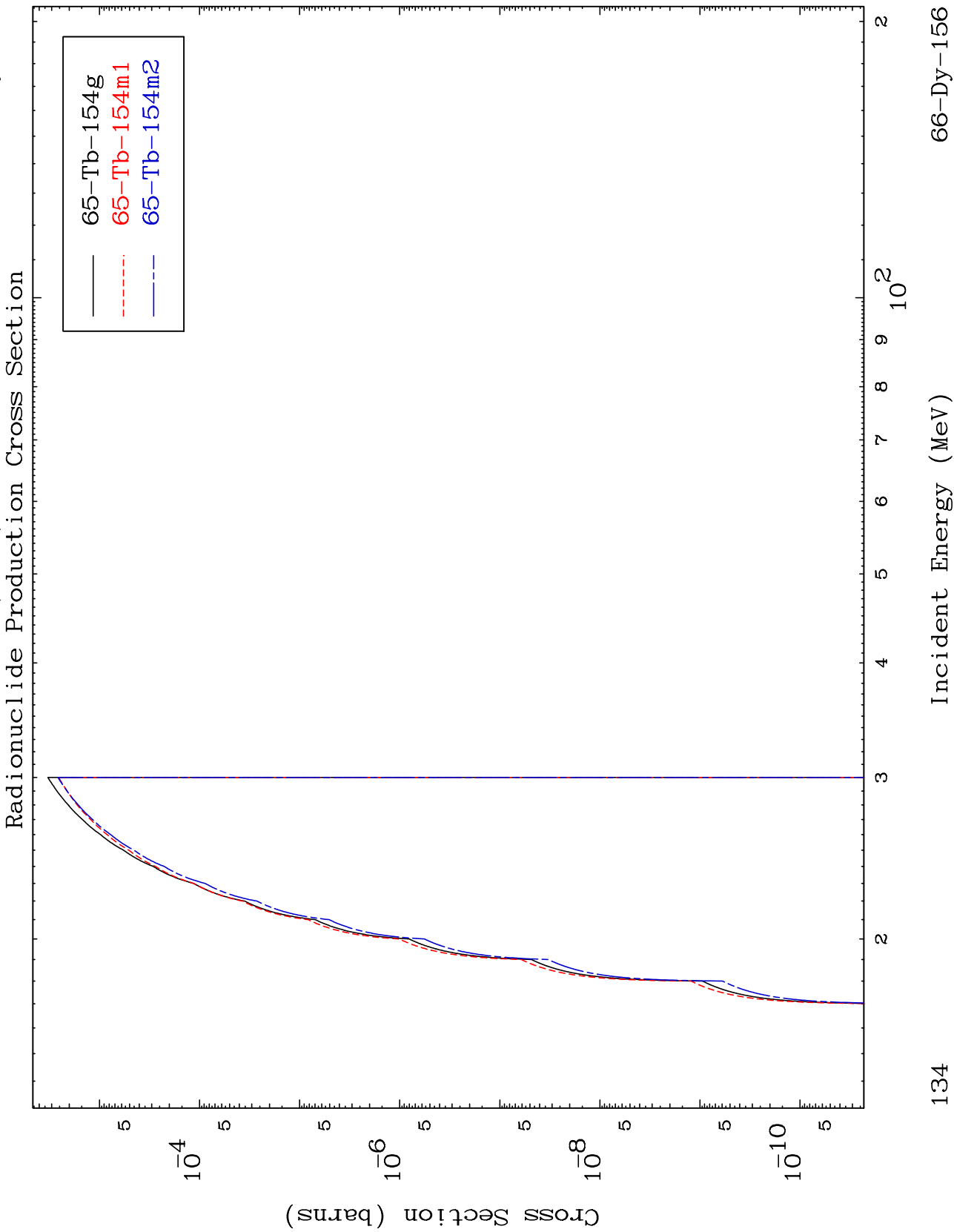
Incident Energy (MeV)

130







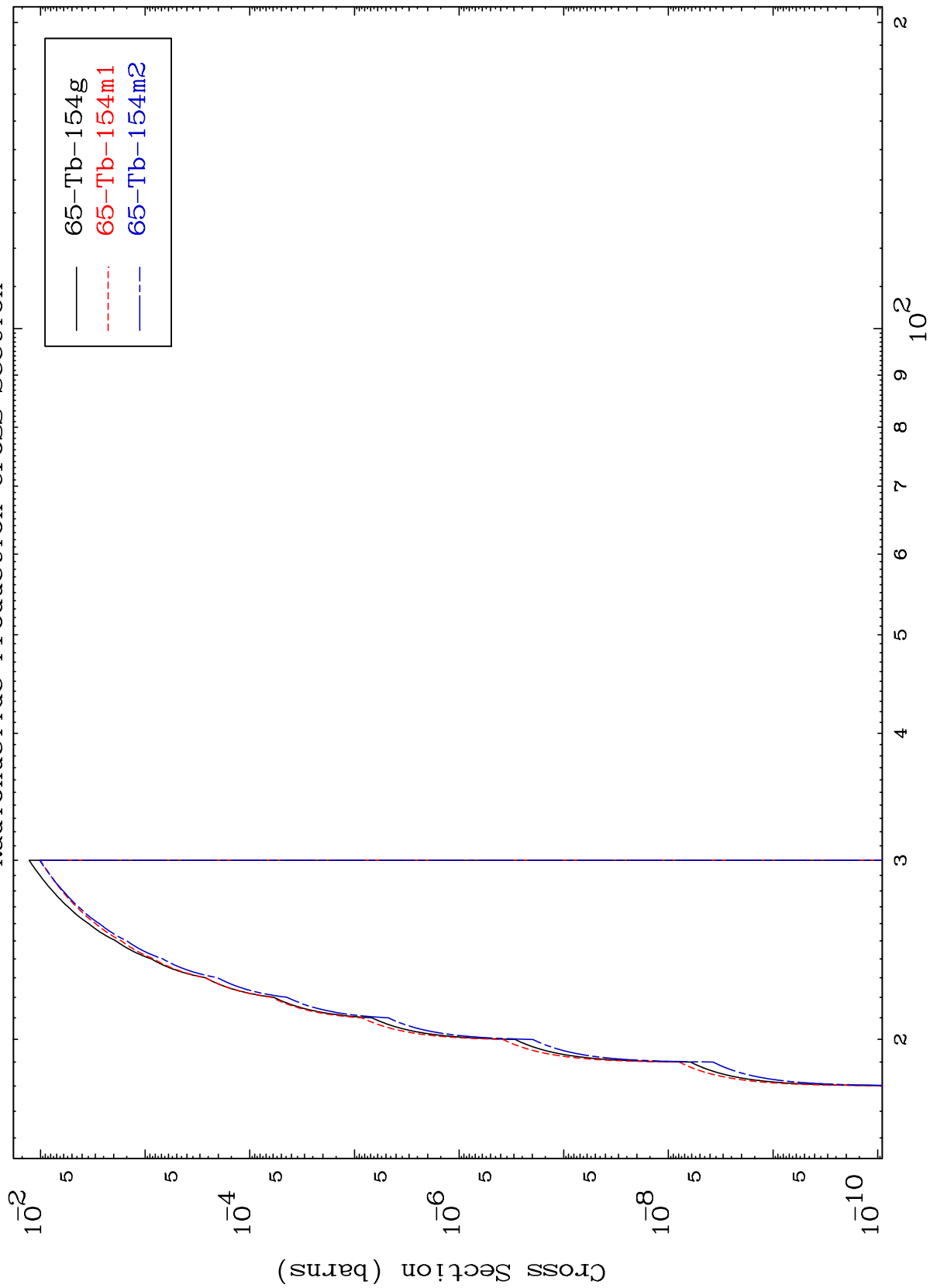


MAT 6625

(n,2n) p

66-Dy-156

Radionuclide Production Cross Section



135

Incident Energy (MeV)

66-Dy-156

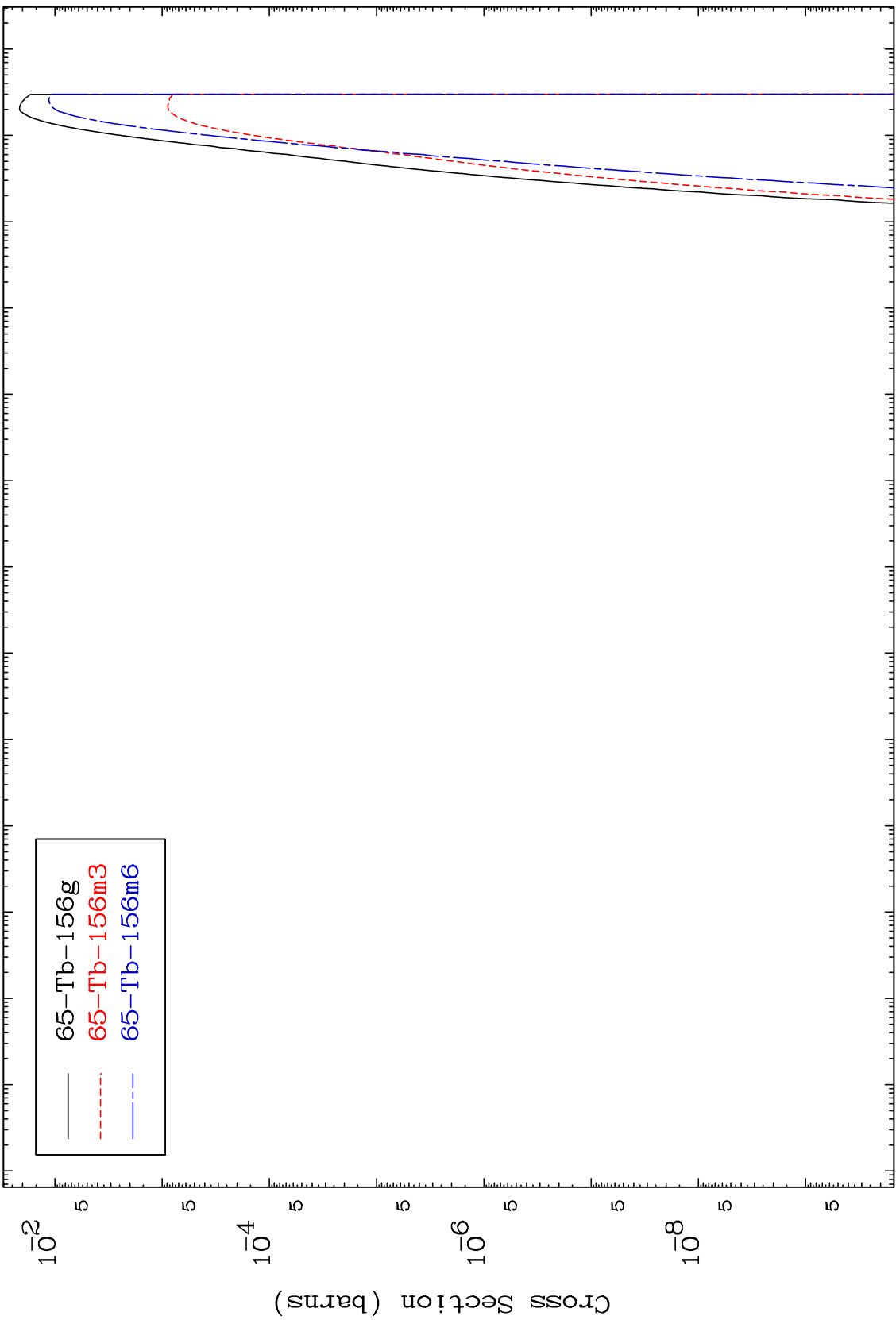
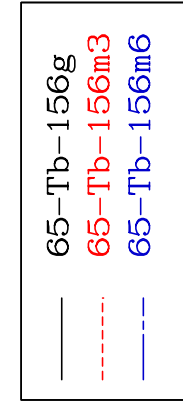


MAT 6625

(n,p)

66-Dy-156

Radionuclide Production Cross Section



66-Dy-156

$10^{-2}$

$10^{-4}$

$10^{-6}$

$10^{-8}$

$10^{-10}$

$10^0$

$10^2$

Incident Energy (MeV)

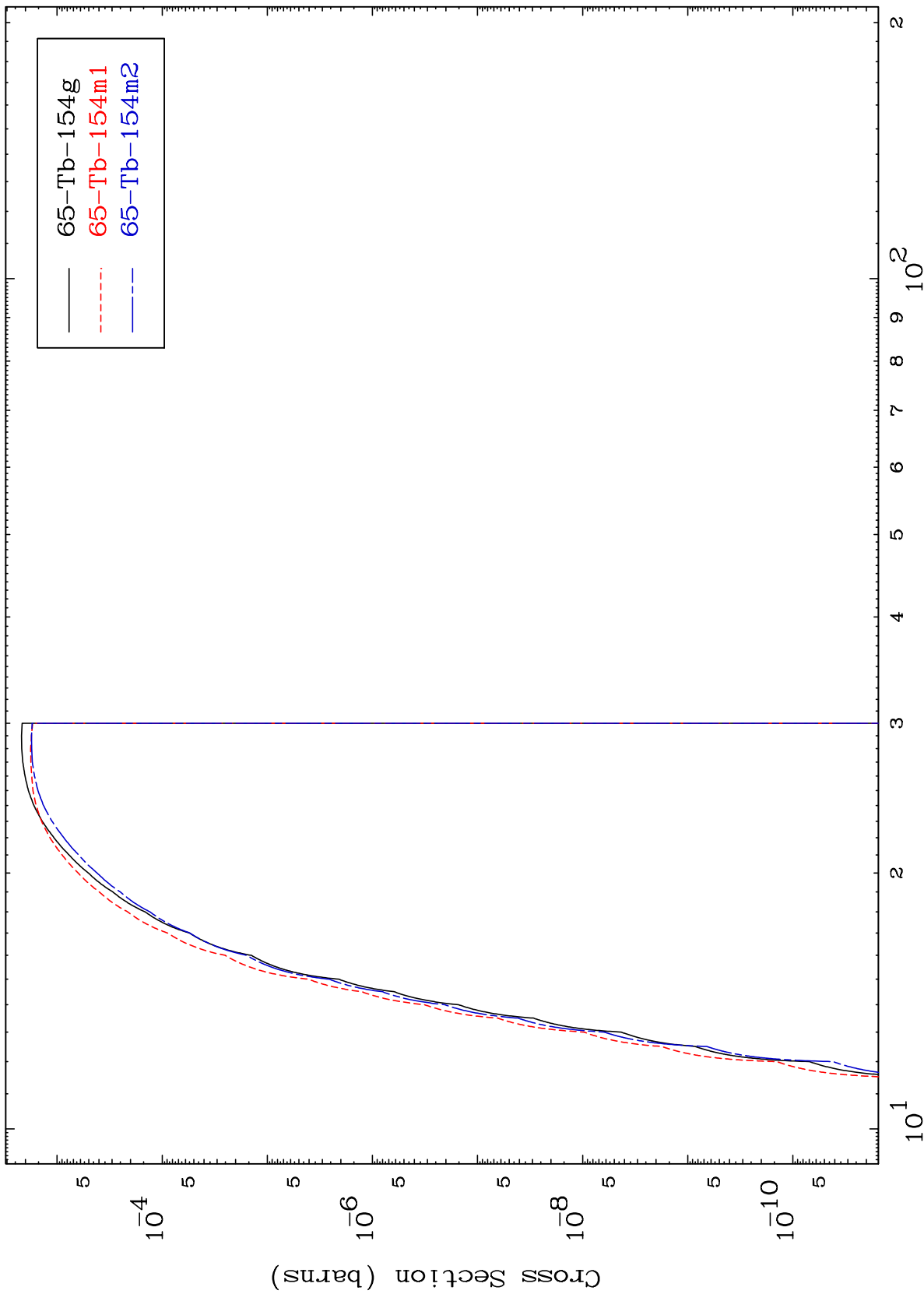
66-Dy-156

136

MAT 6625

66-Dy-156

(n, t)  
Radionuclide Production Cross Section



66-Dy-156

Incident Energy (MeV)

137

MAT 6625

(n,p)  $\alpha$

66-Dy-156

Radionuclide Production Cross Section

