

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

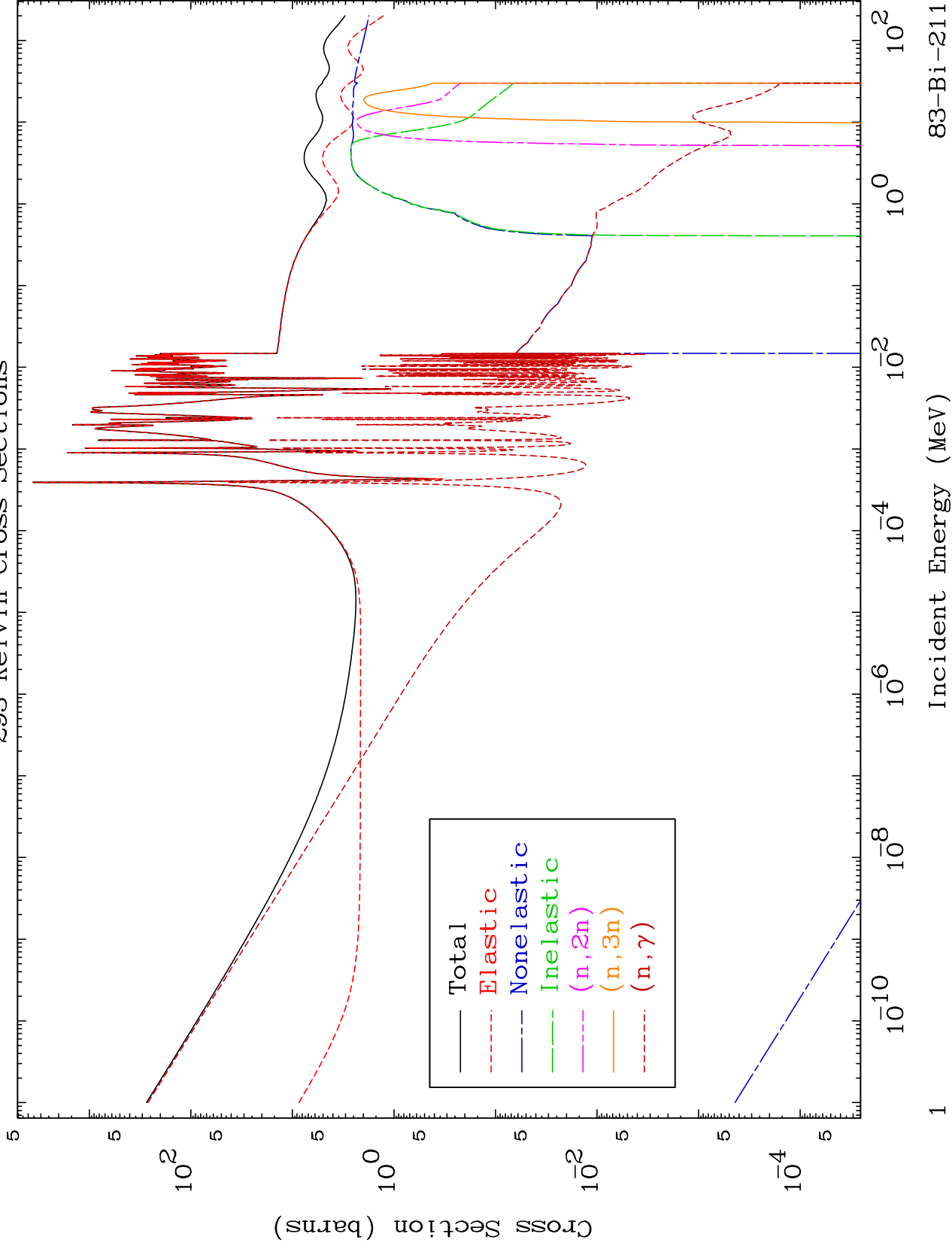
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8331

Neutron Major  
293 Kelvin Cross Sections

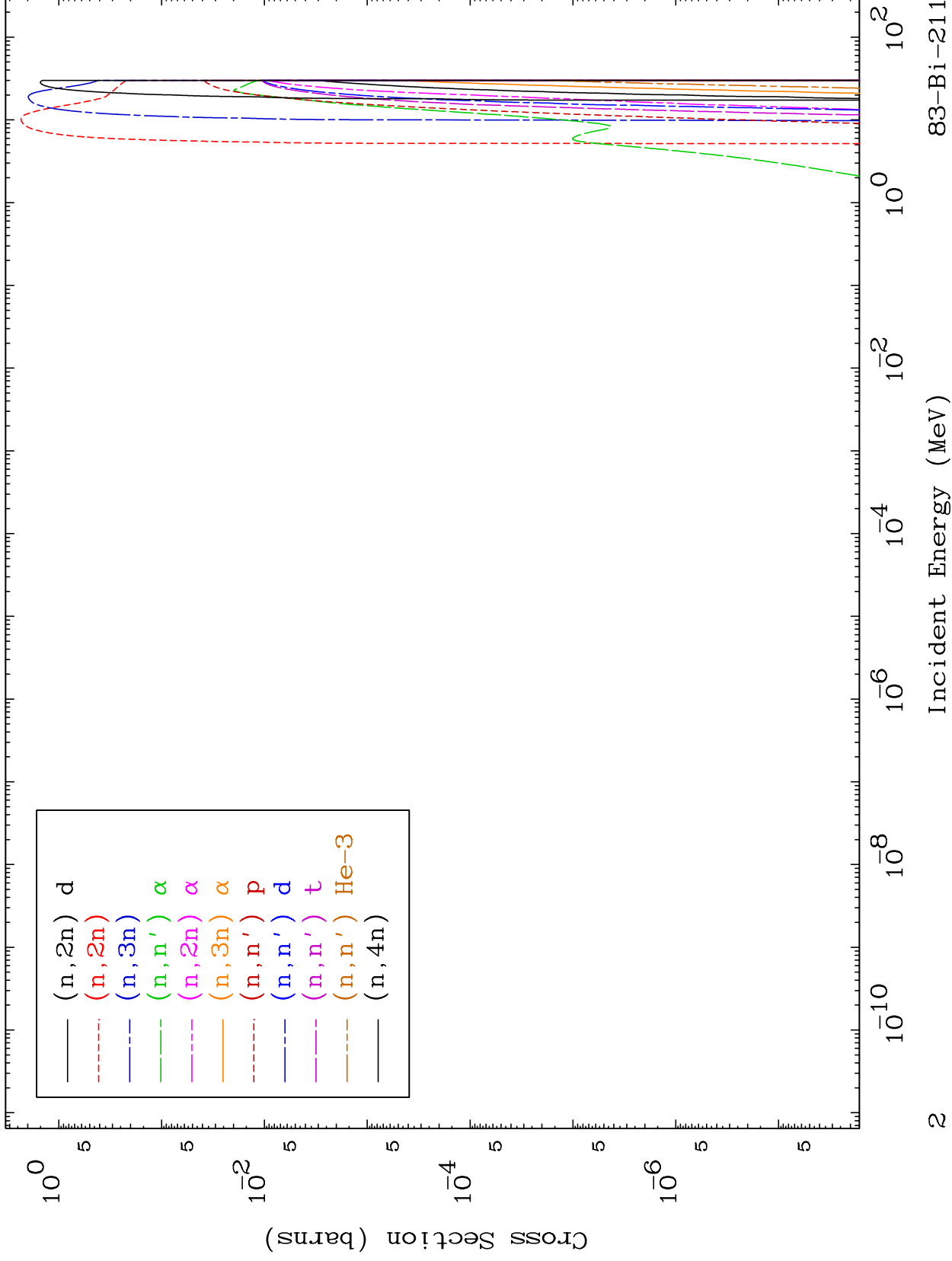
83-Bi-211



MAT 8331

Neutron Absorption  
293 Kelvin Cross Sections

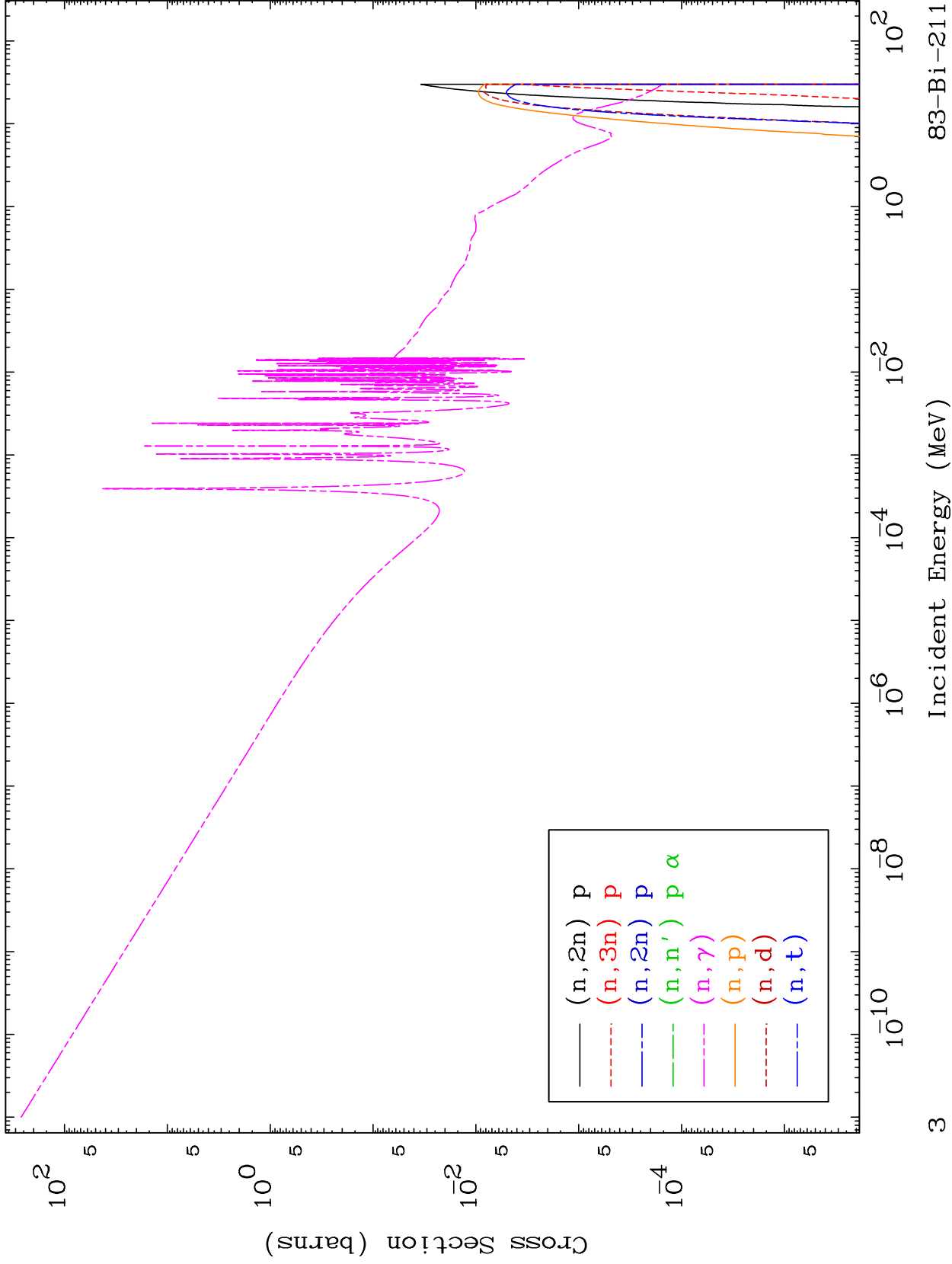
83-Bi-211



MAT 8331

Neutron Absorption  
293 Kelvin Cross Sections

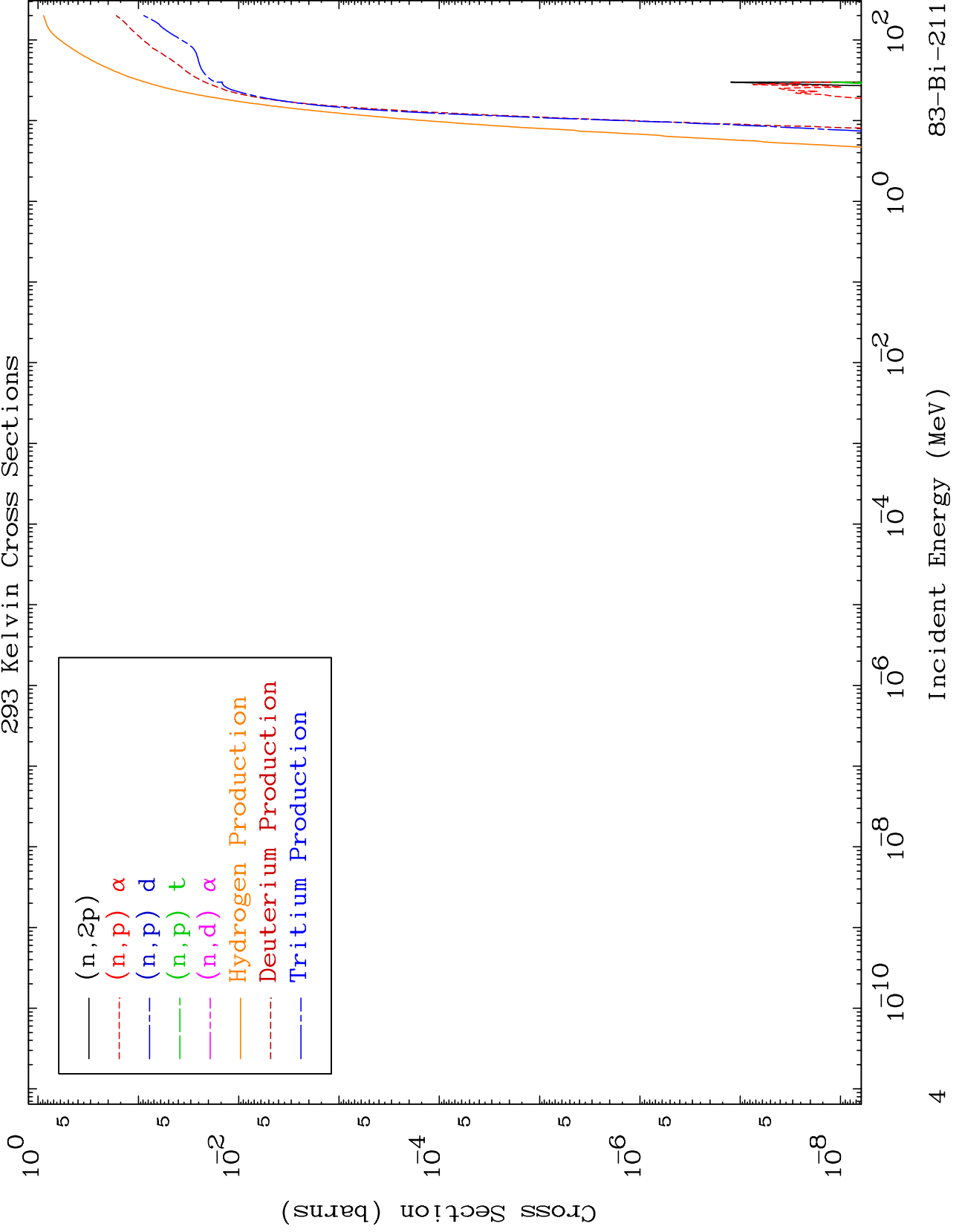
83-Bi-211



MAT 8331

Neutron Absorption  
293 Kelvin Cross Sections

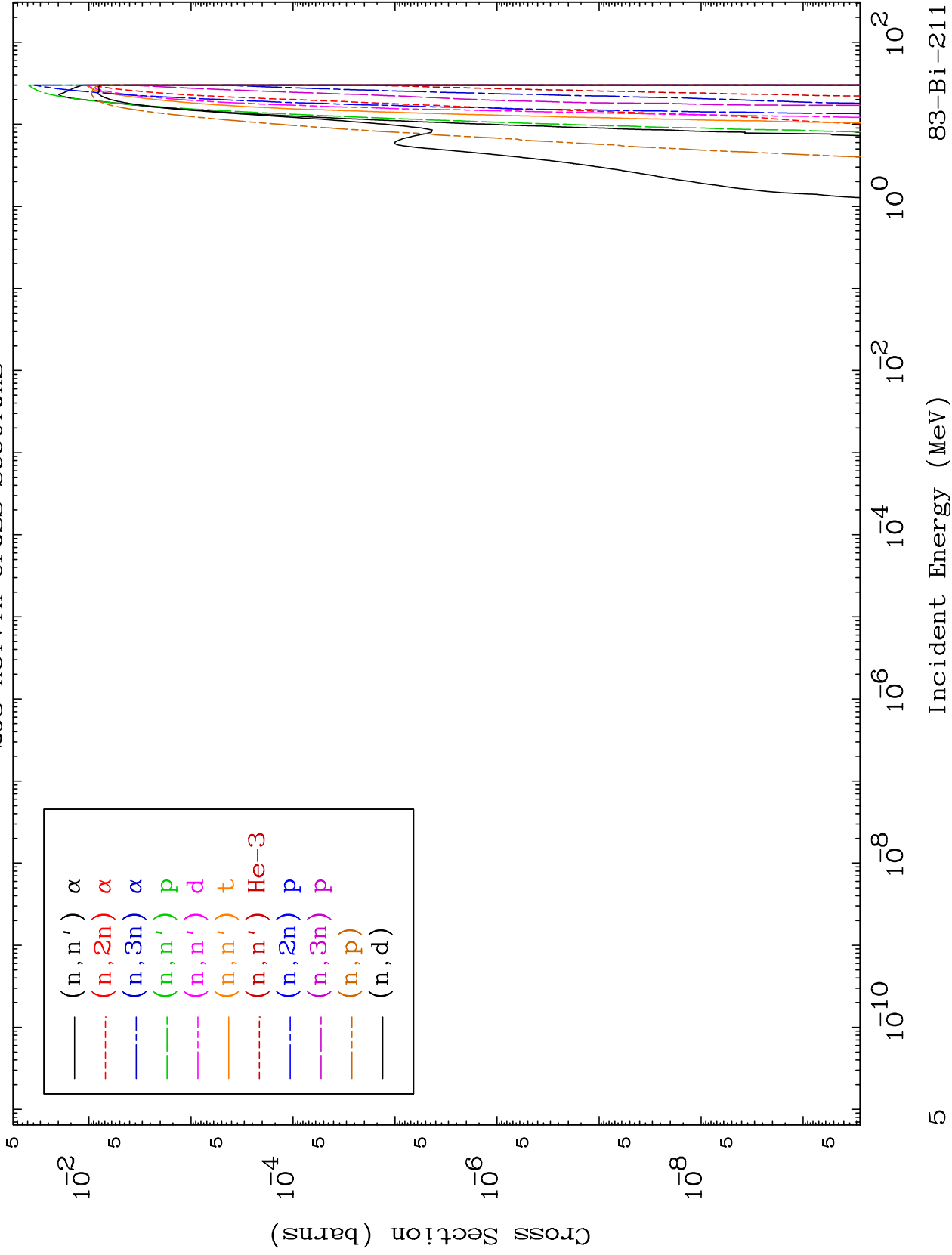
83-Bi-211



MAT 8331

Charged Particle  
293 Kelvin Cross Sections

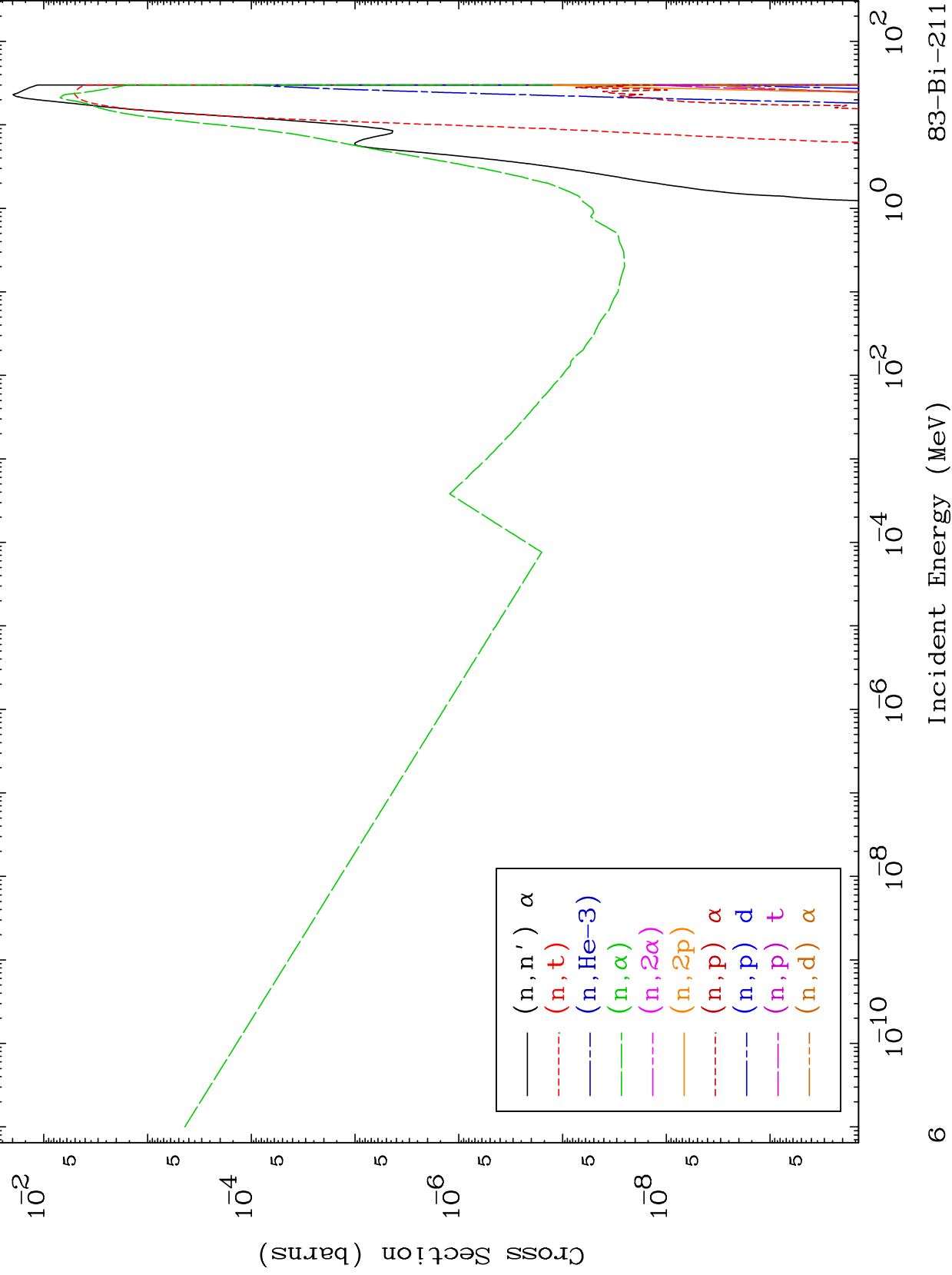
83-Bi-211



MAT 8331

Charged Particle  
293 Kelvin Cross Sections

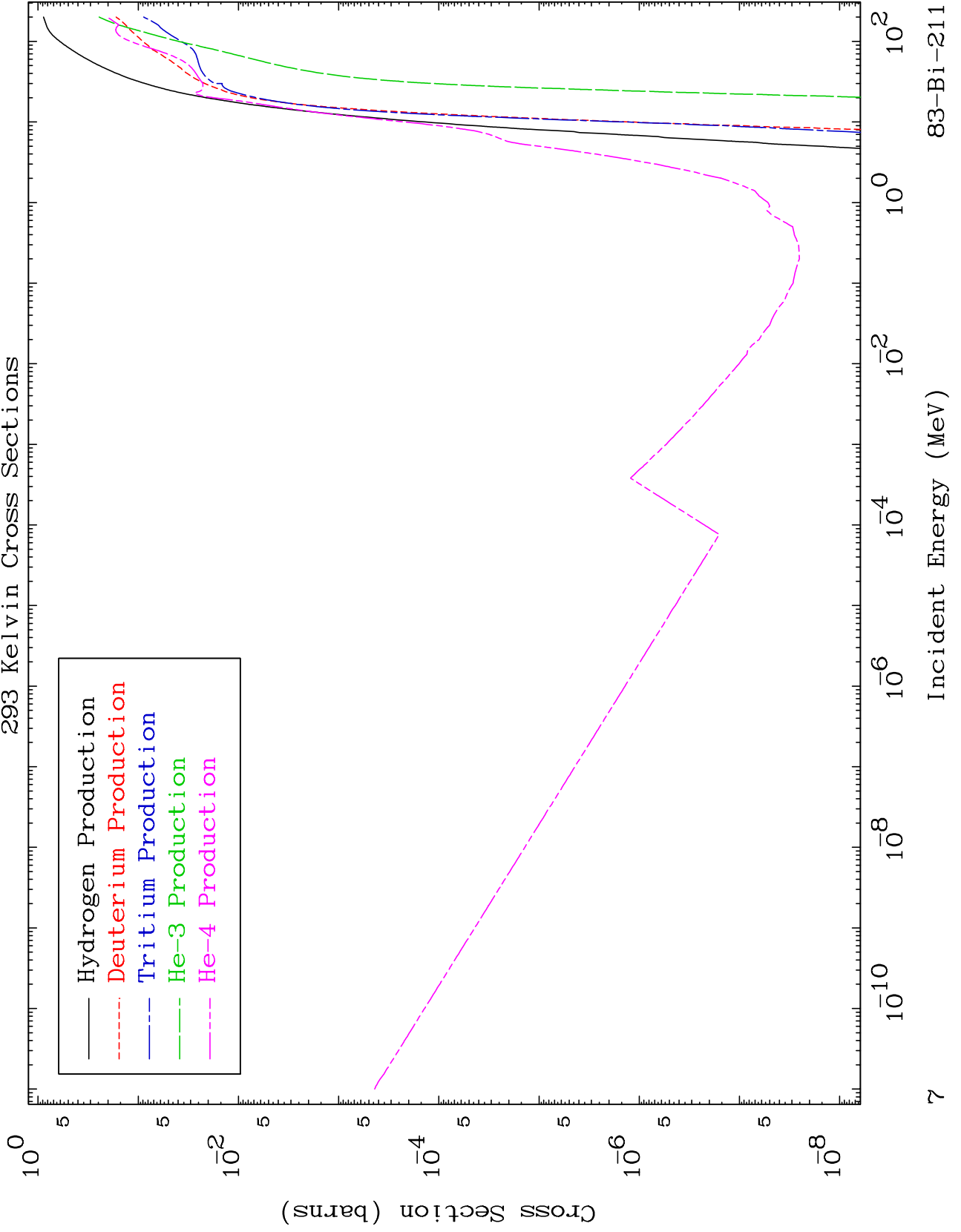
83-Bi-211



MAT 8331

Particle Production  
293 Kelvin Cross Sections

83-Bi-211



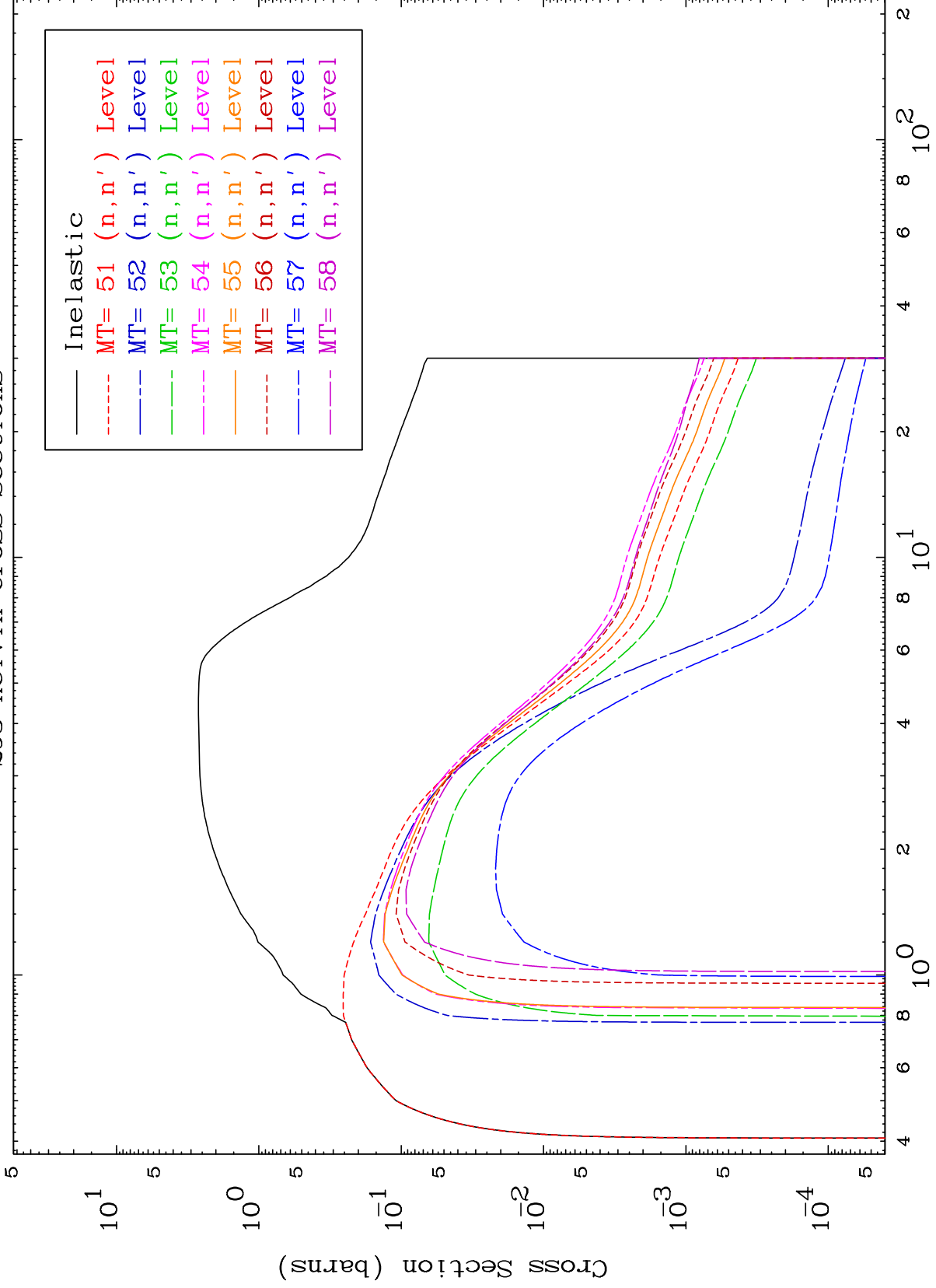


MAT 8331

(n,n') Levels

83-Bi-211

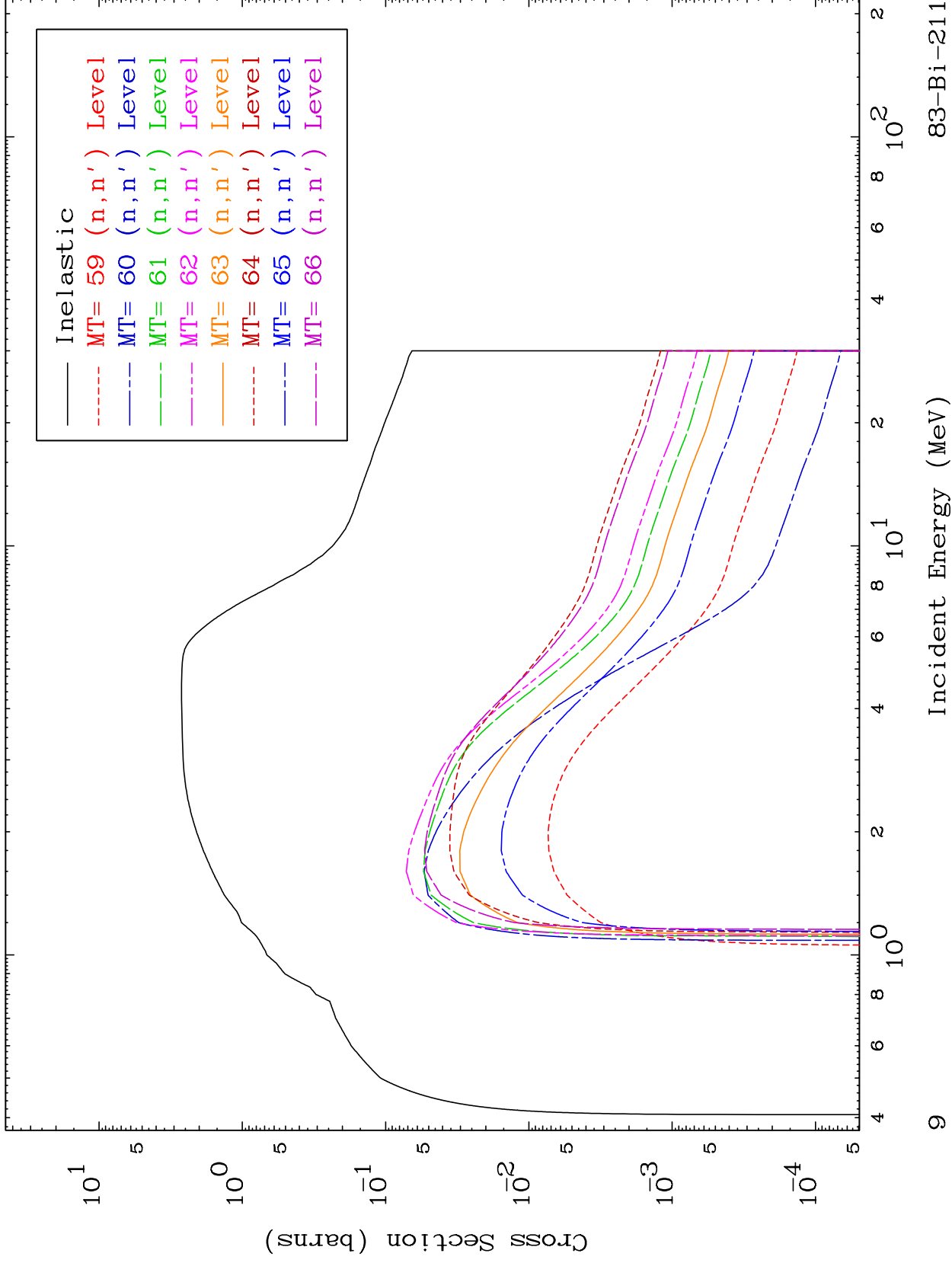
293 Kelvin Cross Sections



8

Incident Energy (MeV)

83-Bi-211

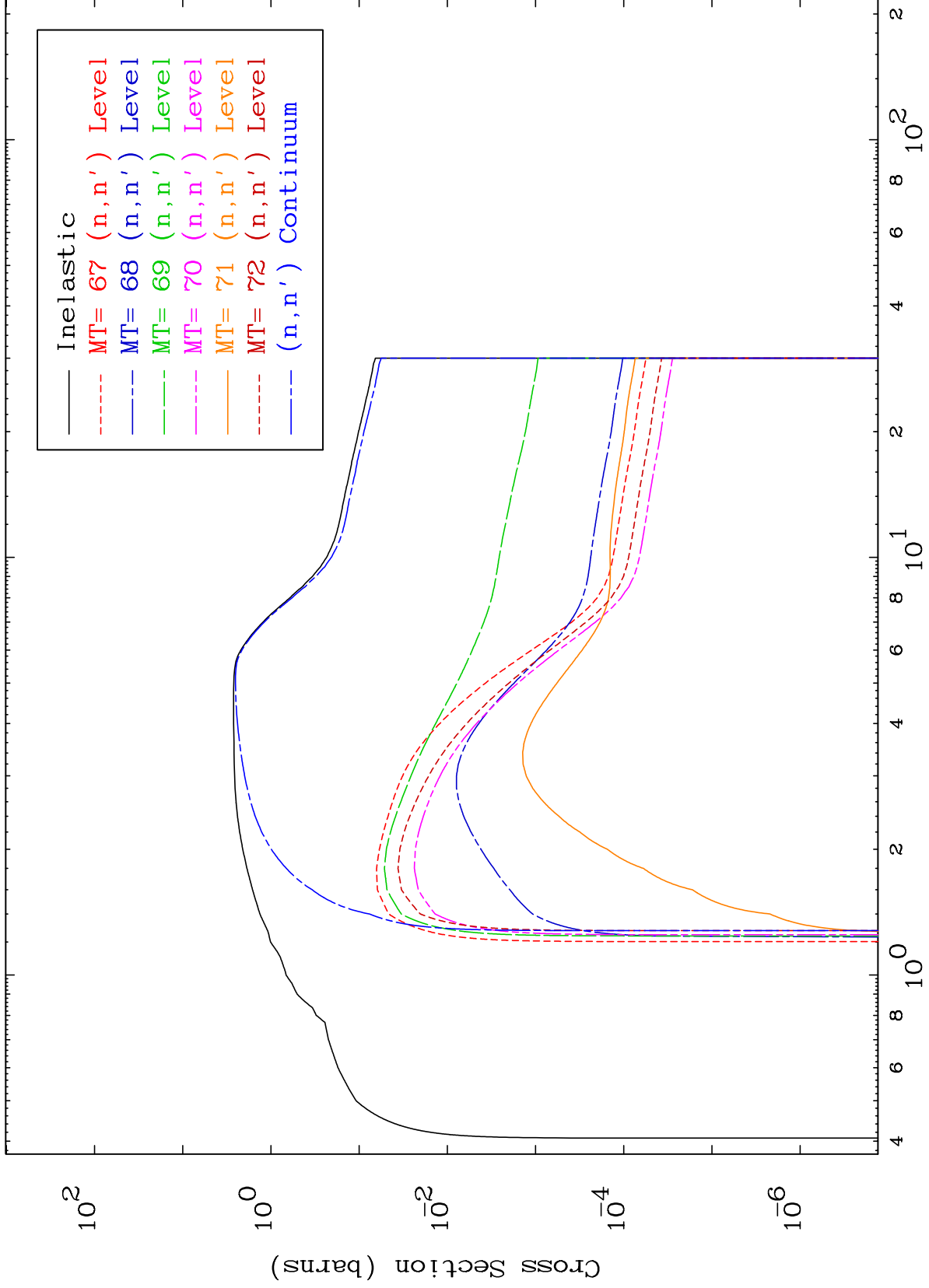


MAT 8331

(n,n') Levels

83-Bi-211

293 Kelvin Cross Sections



10

Incident Energy (MeV)

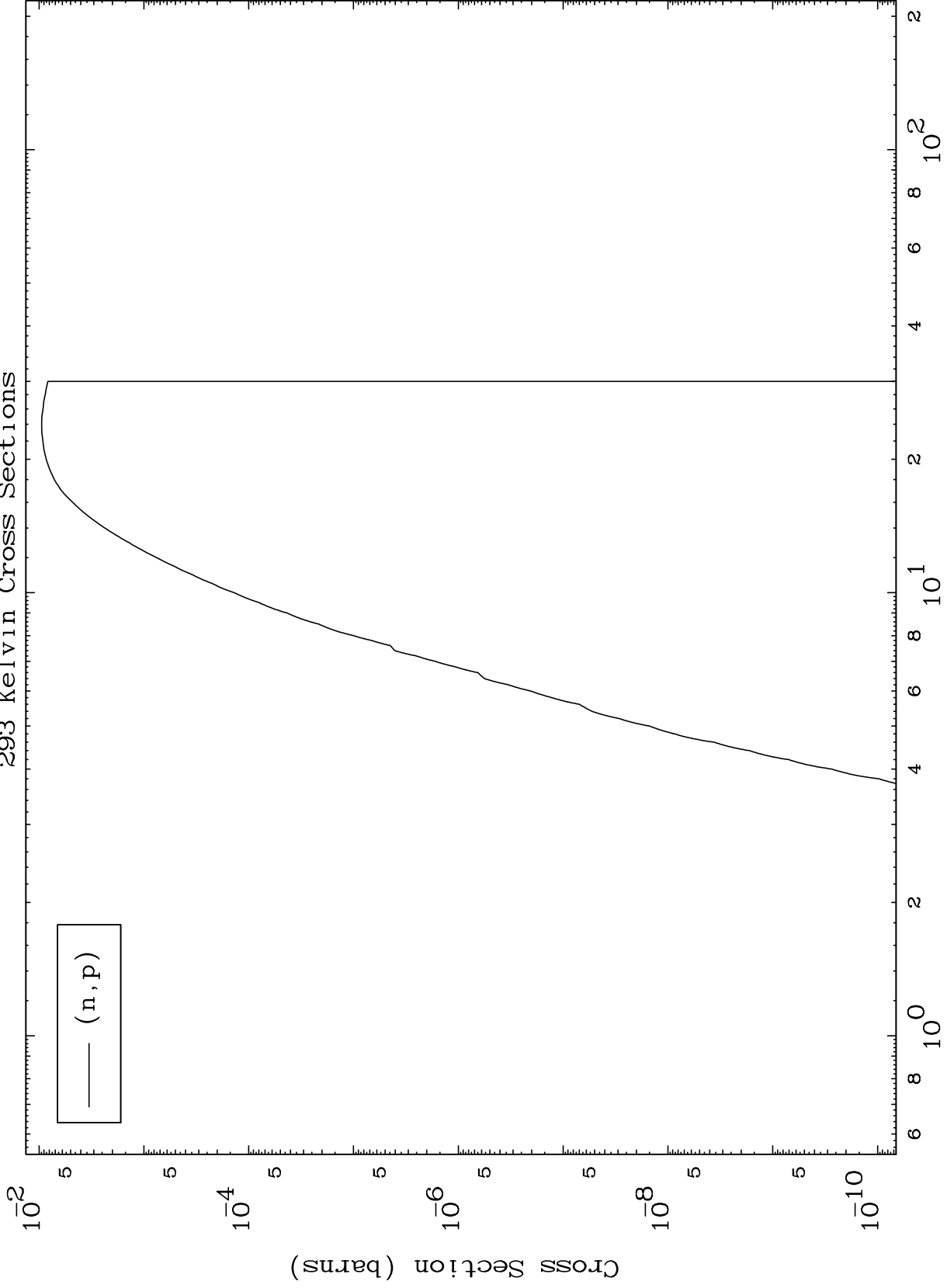
83-Bi-211

MAT 8331

(n,p) Levels

83-Bi-211

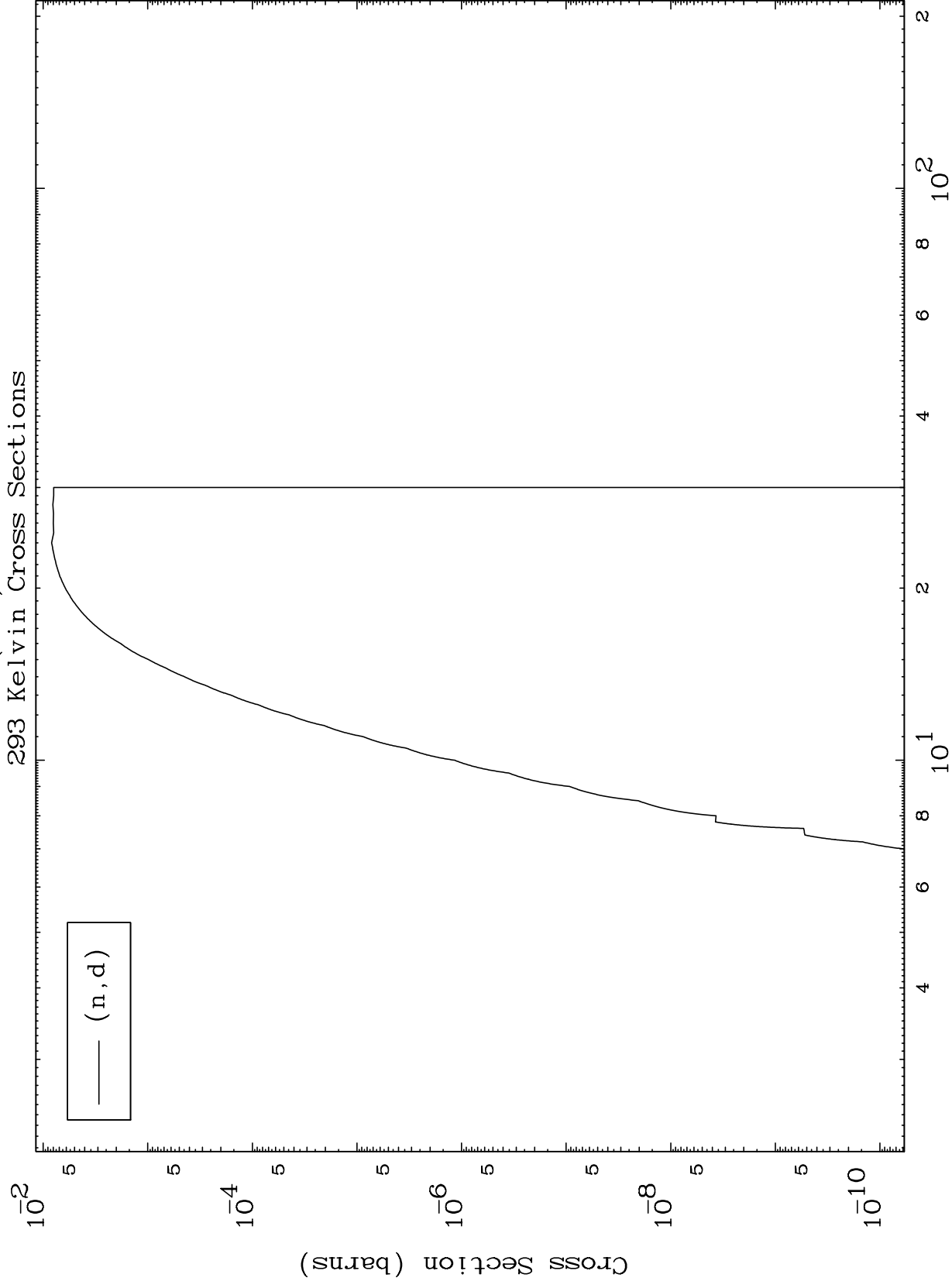
293 Kelvin Cross Sections



MAT 8331

83-Bi-211

(n,d) Levels  
293 Kelvin Cross Sections



83-Bi-211

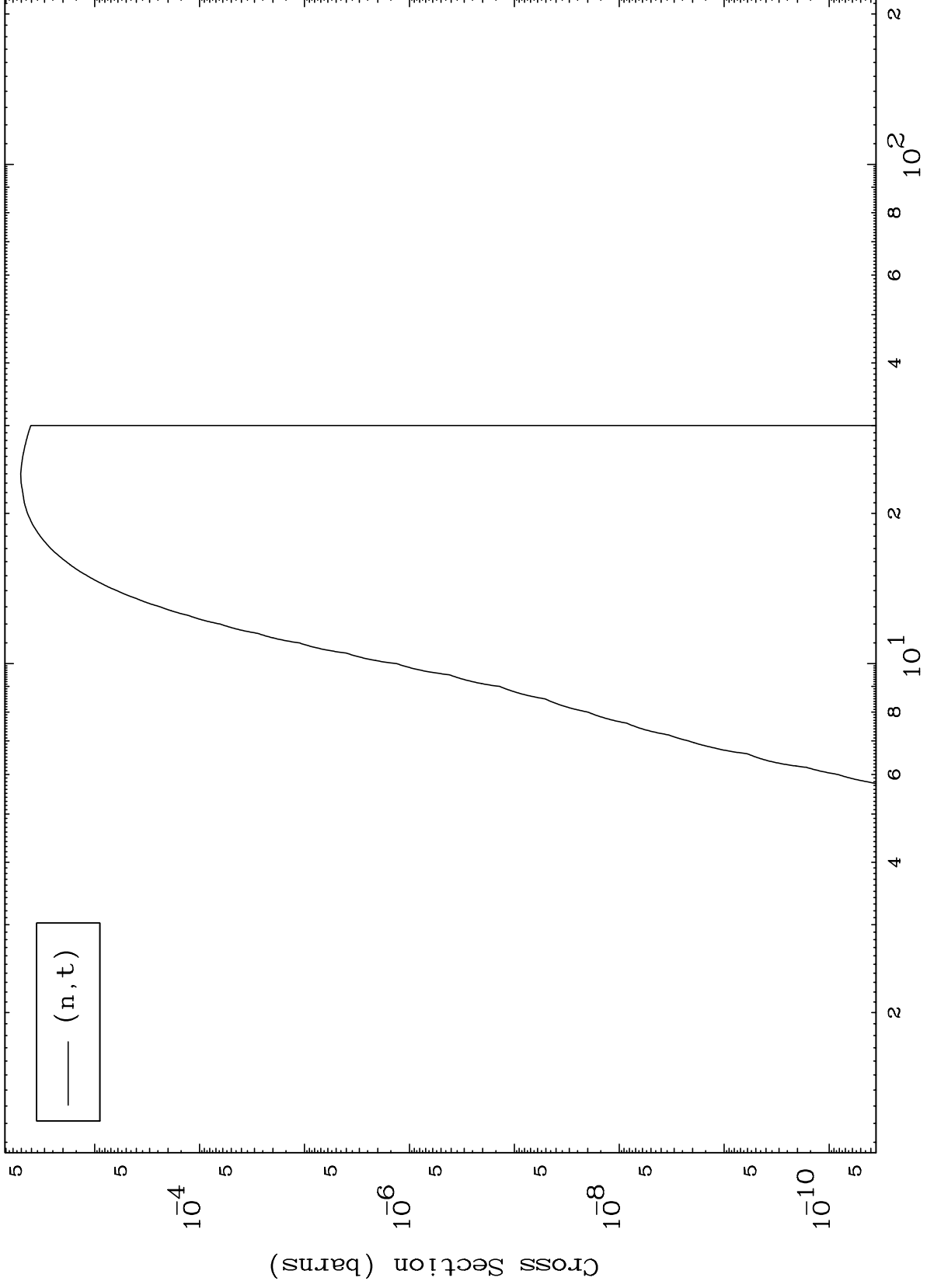
Incident Energy (MeV)

12

MAT 8331

(n,t) Levels  
293 Kelvin Cross Sections

83-Bi-211



13

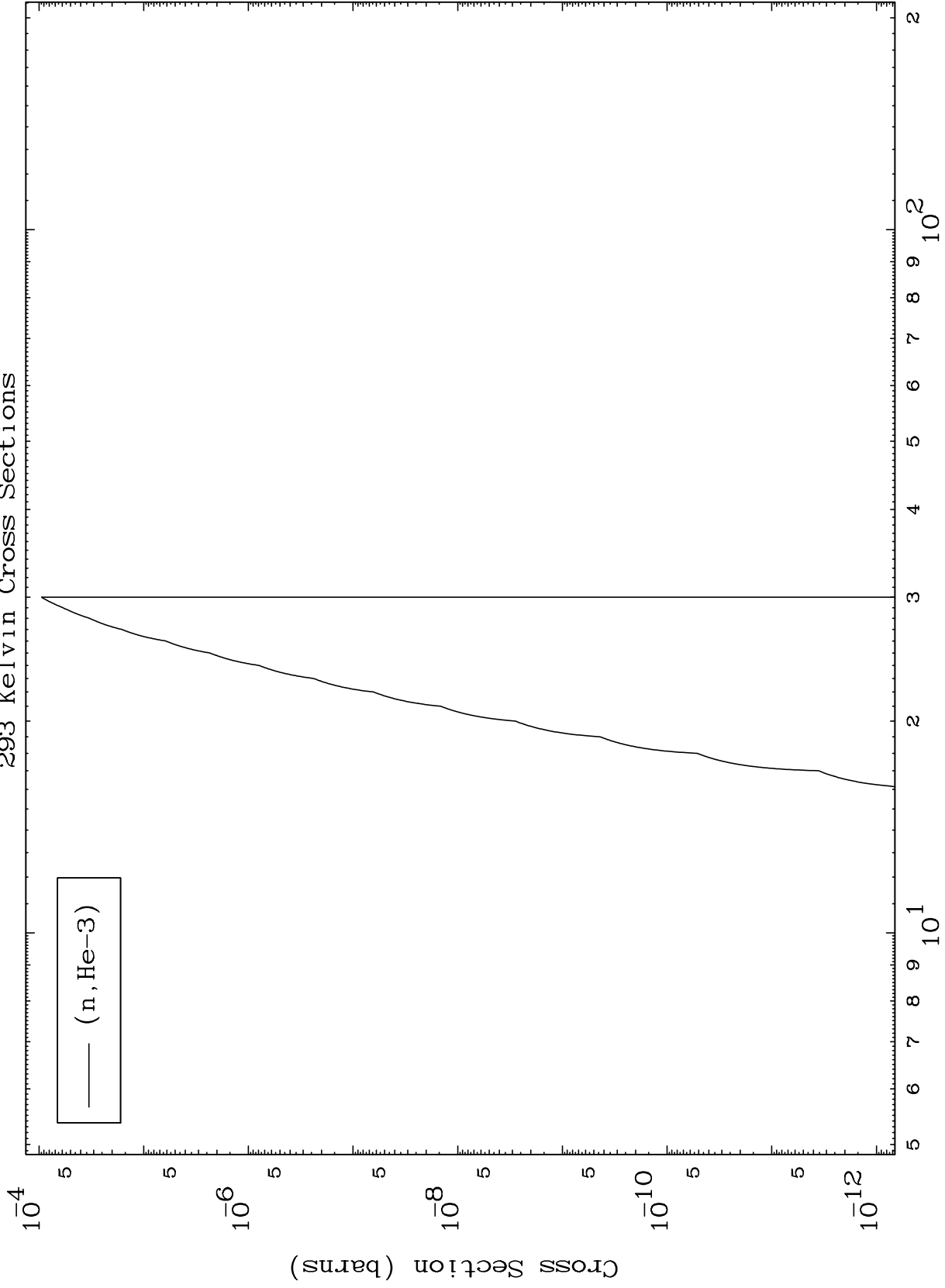
Incident Energy (MeV)

83-Bi-211

MAT 8331

(n,He3) Levels  
293 Kelvin Cross Sections

83-Bi-211



14

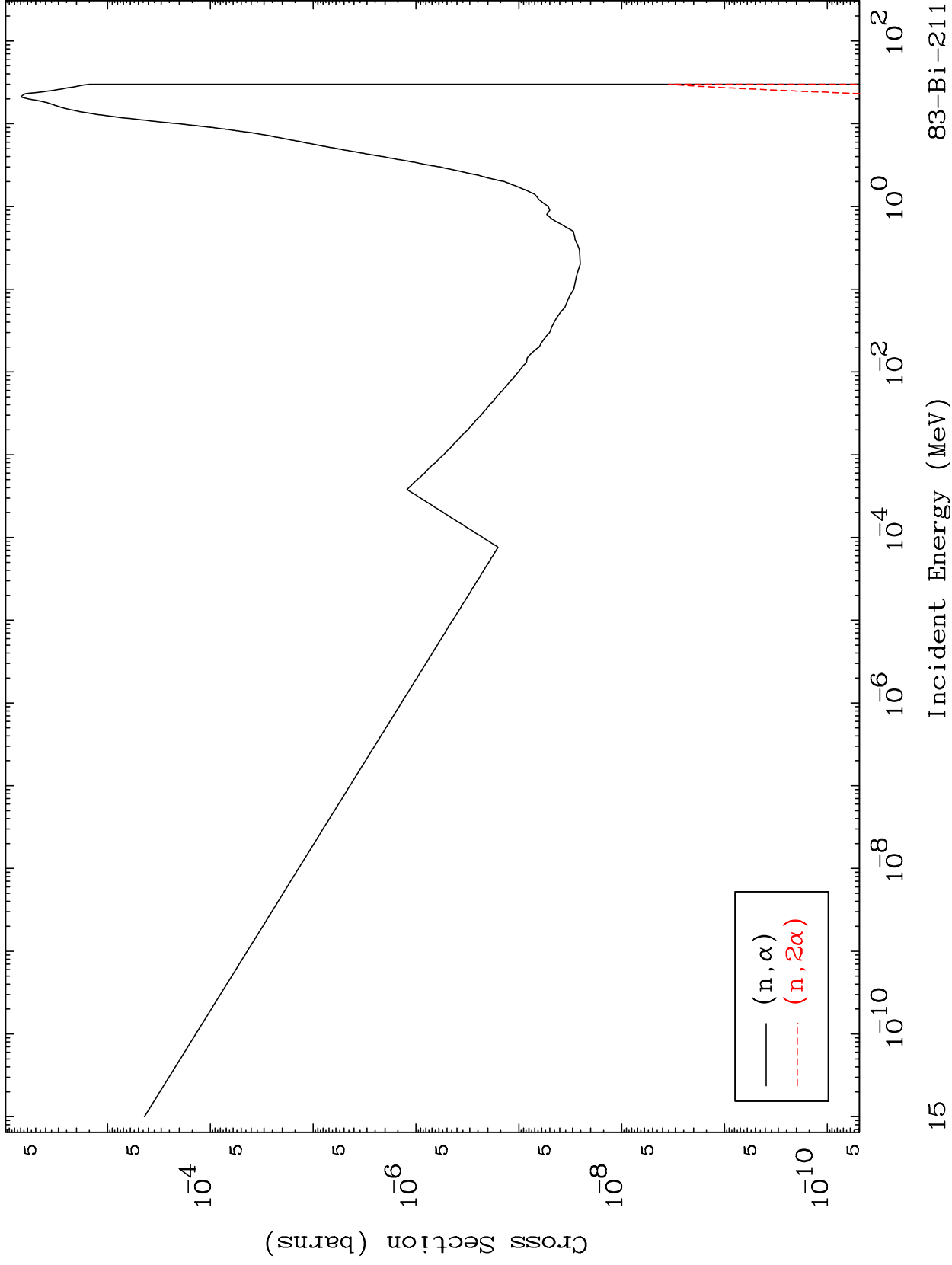
Incident Energy (MeV)

83-Bi-211

MAT 8331

(n,α) Levels  
293 Kelvin Cross Sections

83-Bi-211

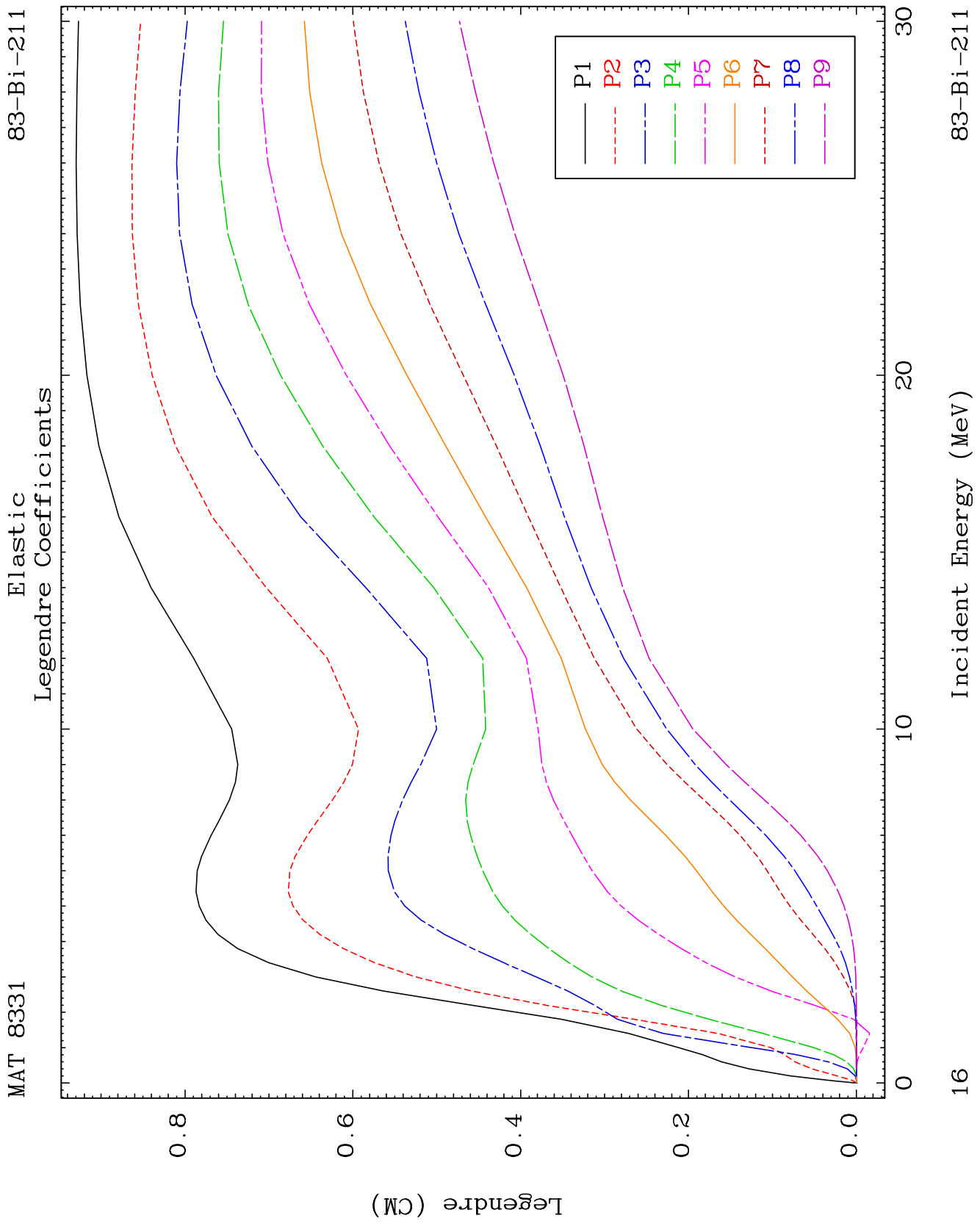


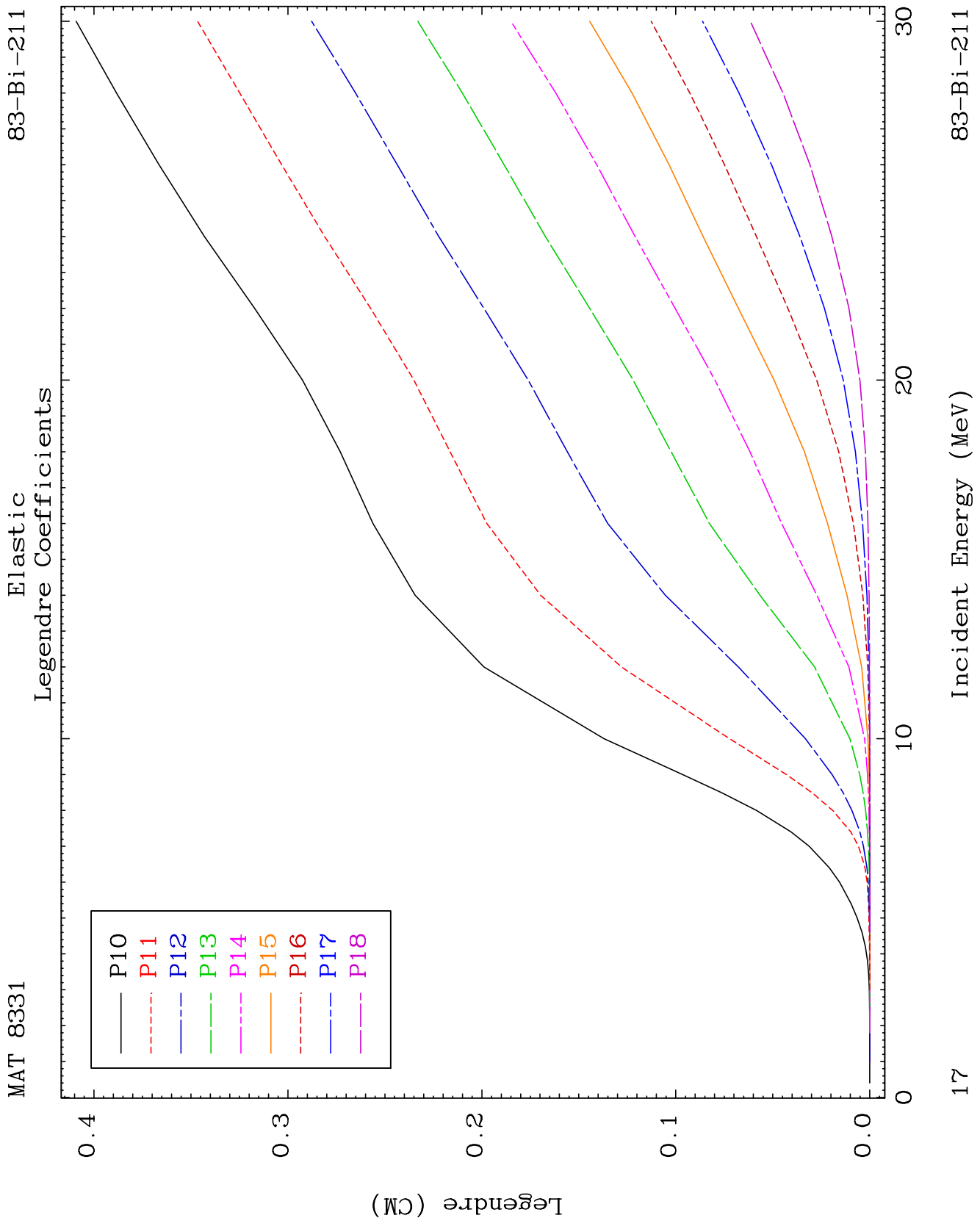
15

Incident Energy (MeV)

83-Bi-211







MAT 8331

83-Bi-211

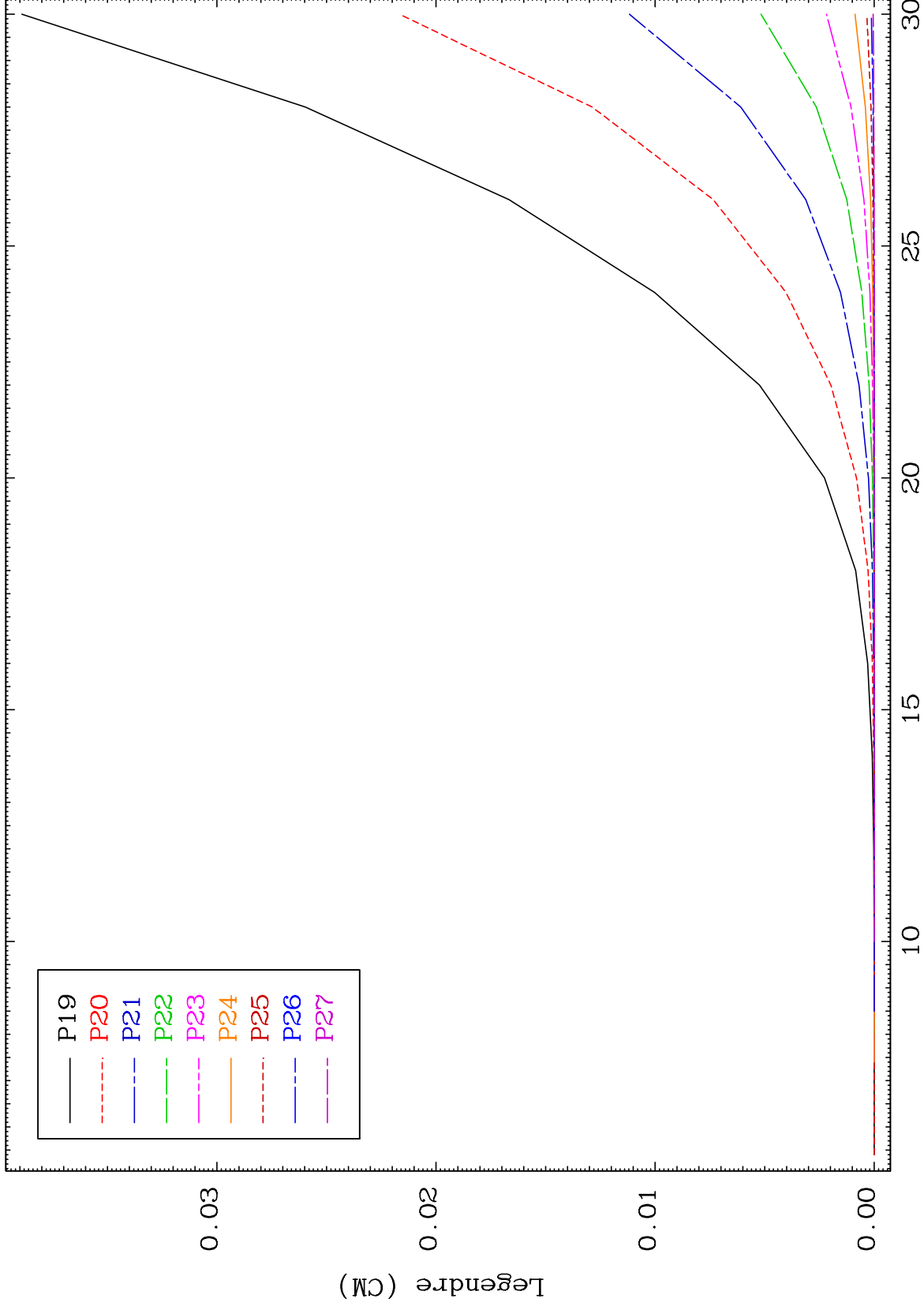
17

83-Bi-211

MAT 8331

### Elastic Legendre Coefficients

83-Bi-211



18

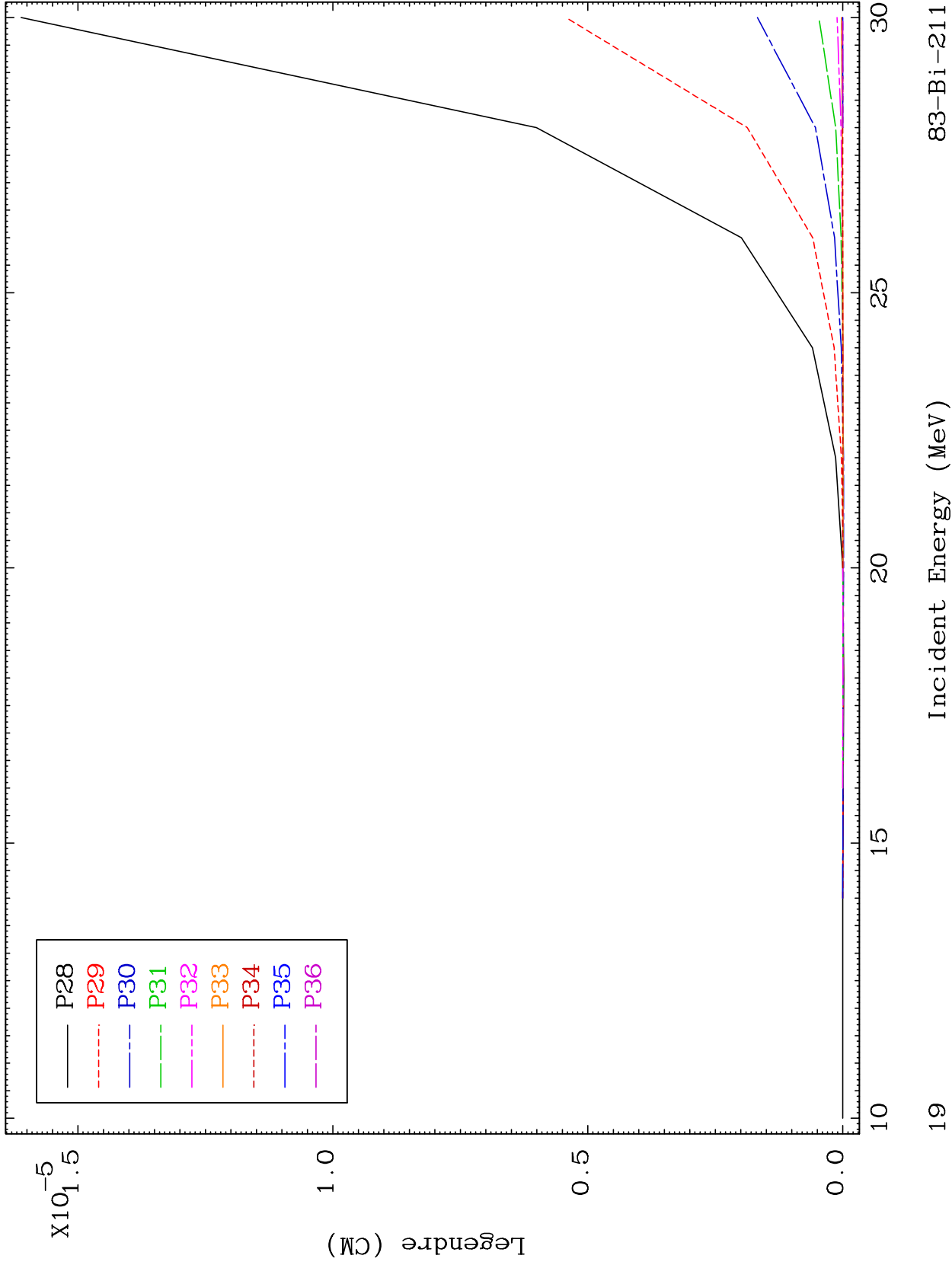
Incident Energy (MeV)

83-Bi-211

MAT 8331

Elastic Legendre Coefficients

83-Bi-211



19

Incident Energy (MeV)

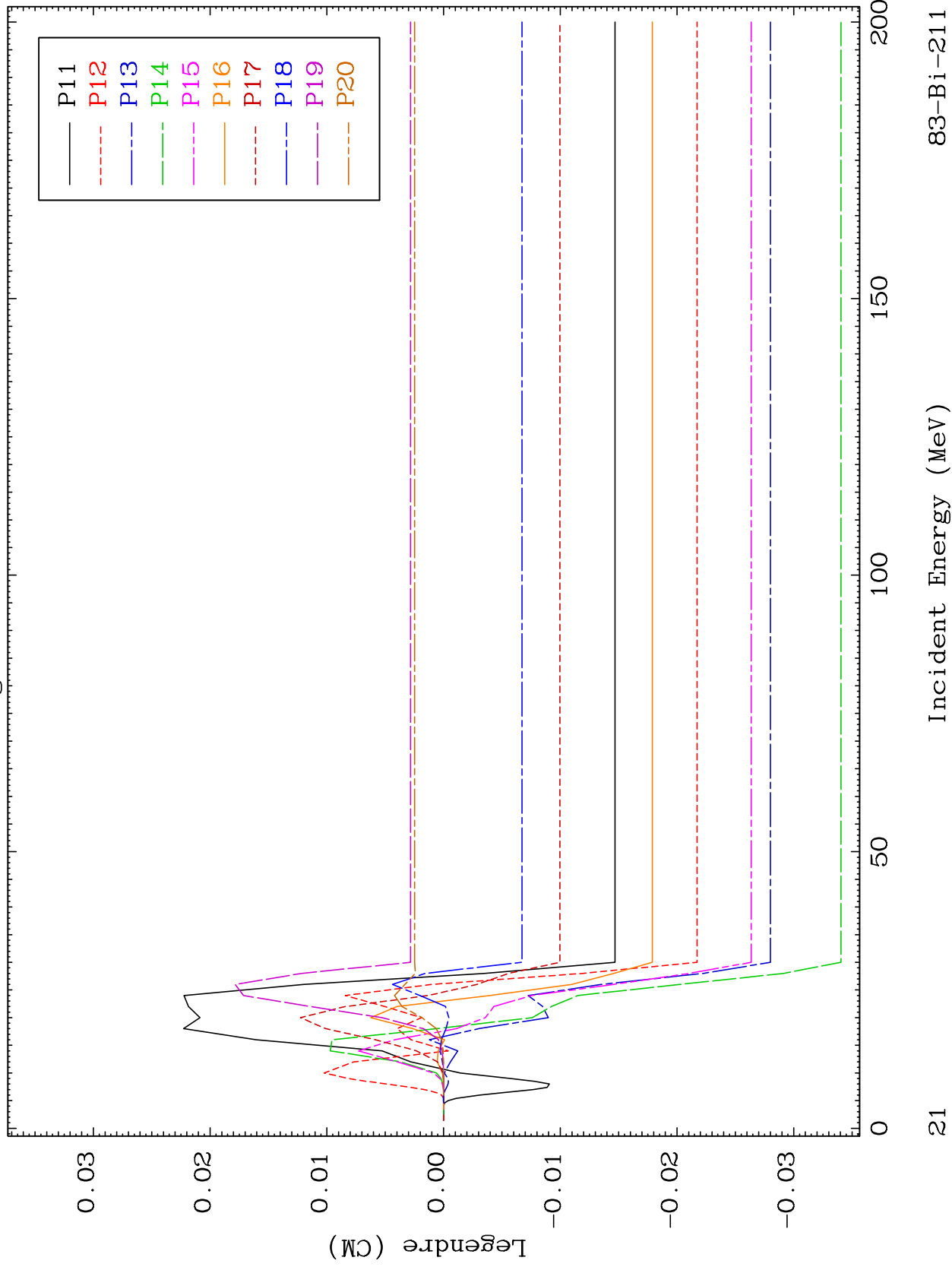
83-Bi-211



MAT 8331

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

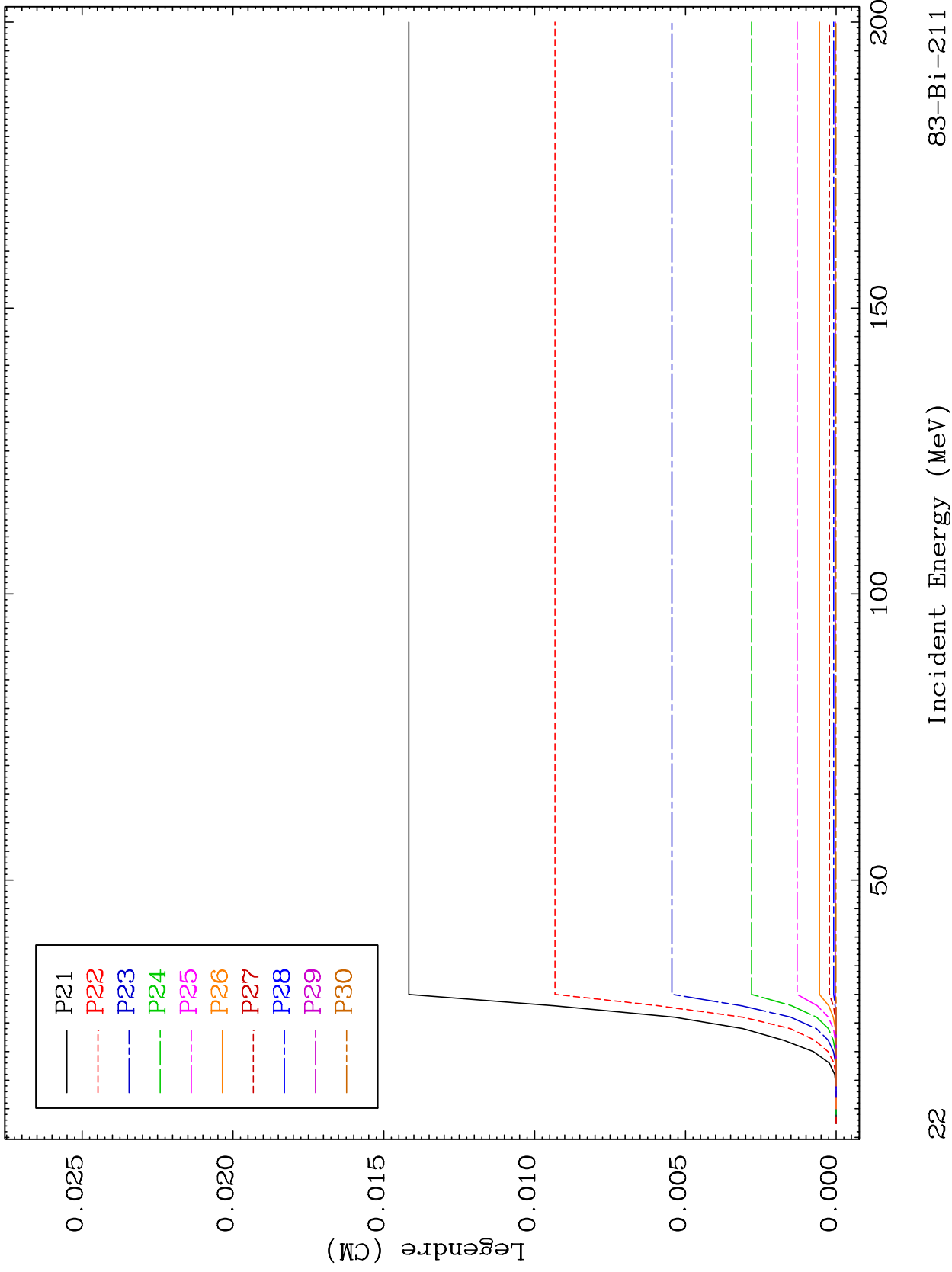
83-Bi-211



83-Bi-211

Incident Energy (MeV)

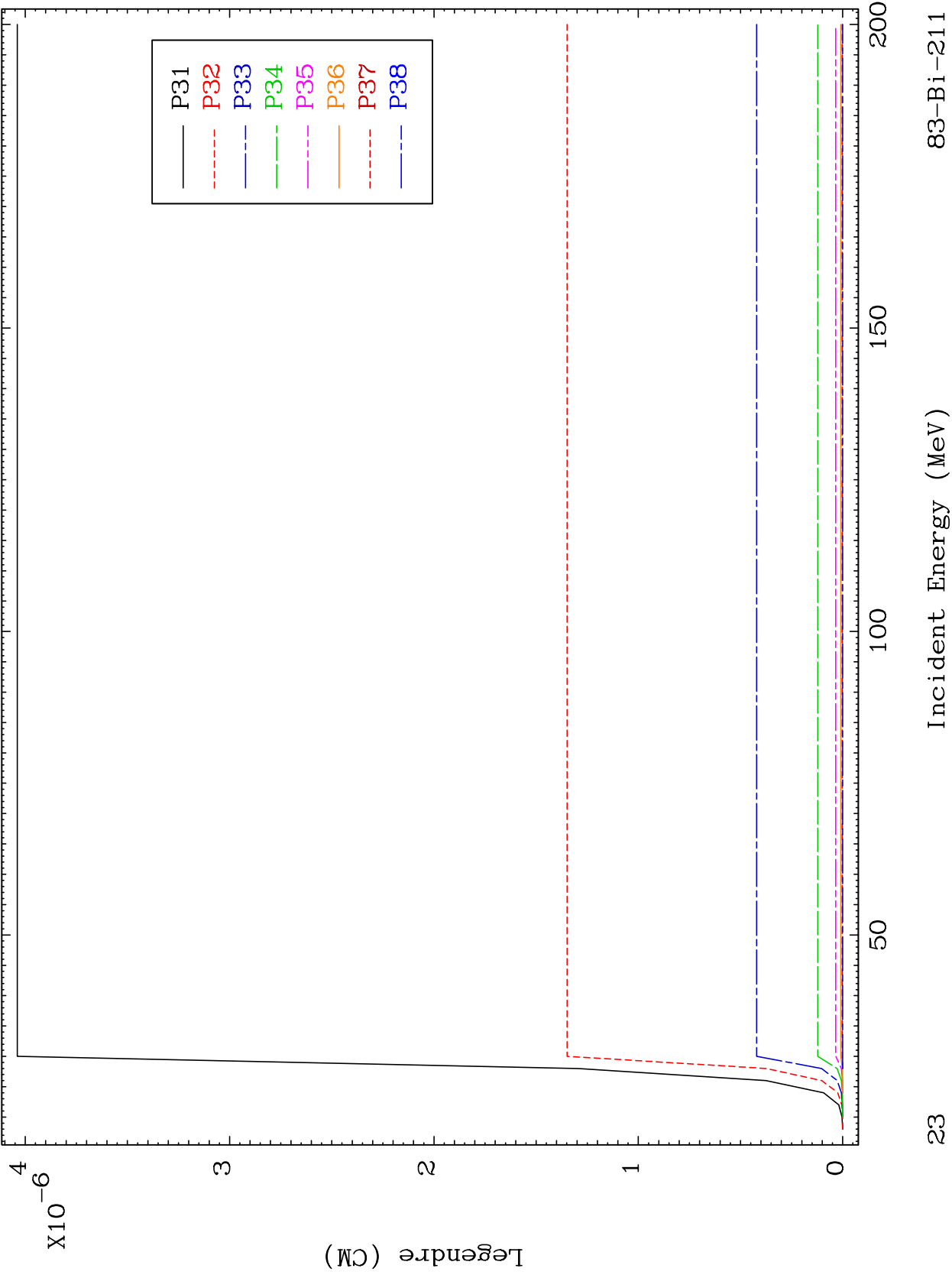
21



MAT 8331

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

83-Bi-211



23

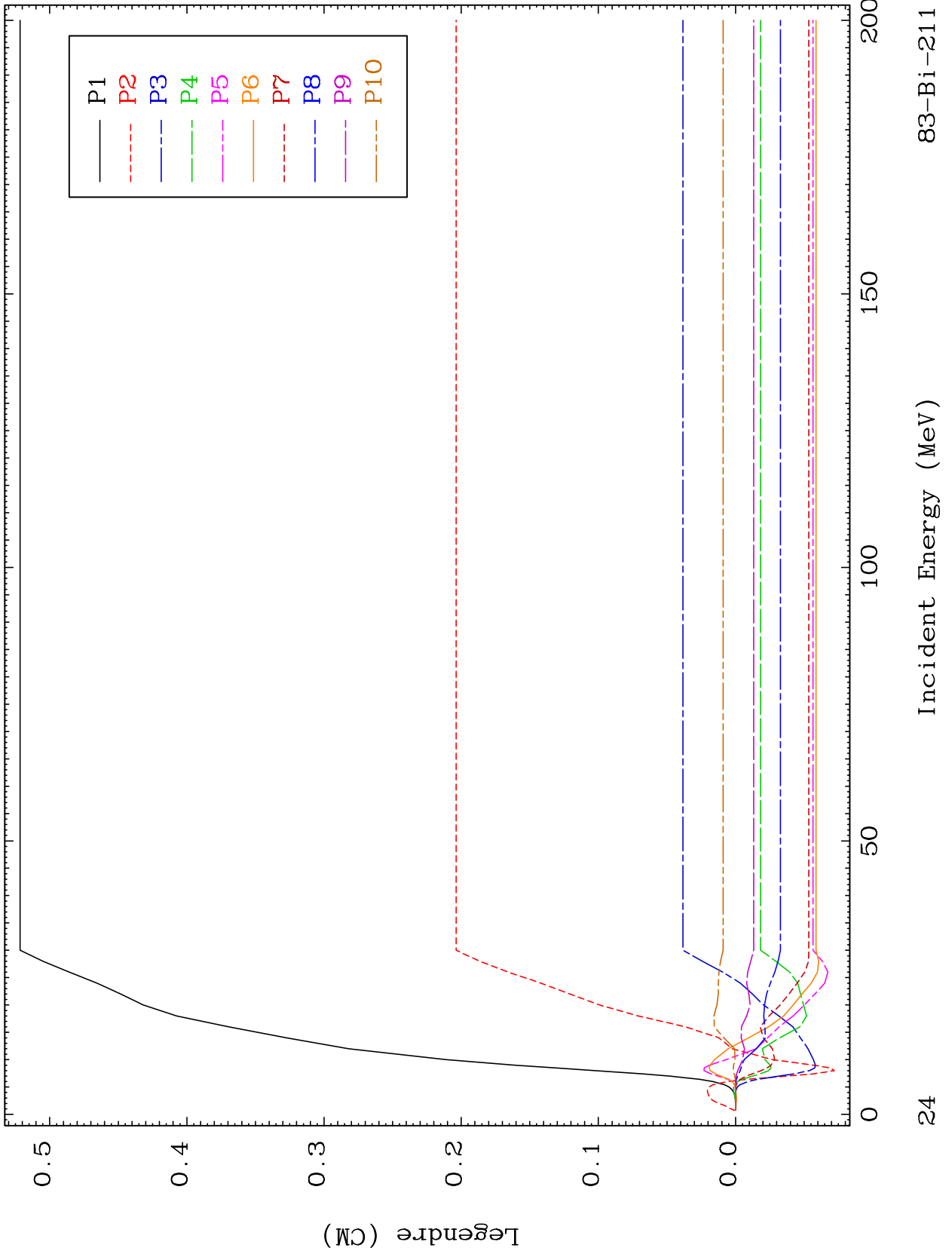
83-Bi-211



MAT 8331

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

83-Bi-211



24

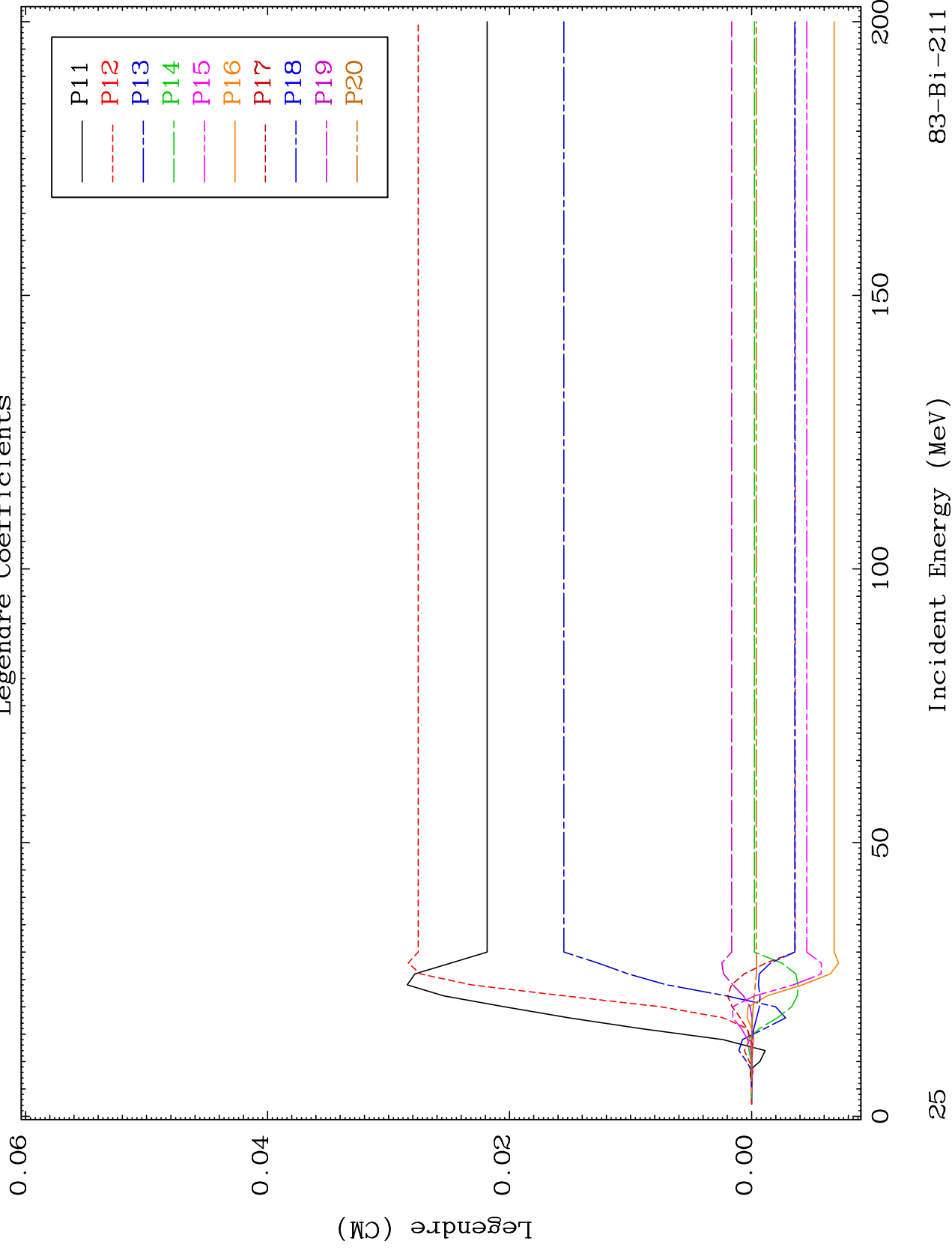
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

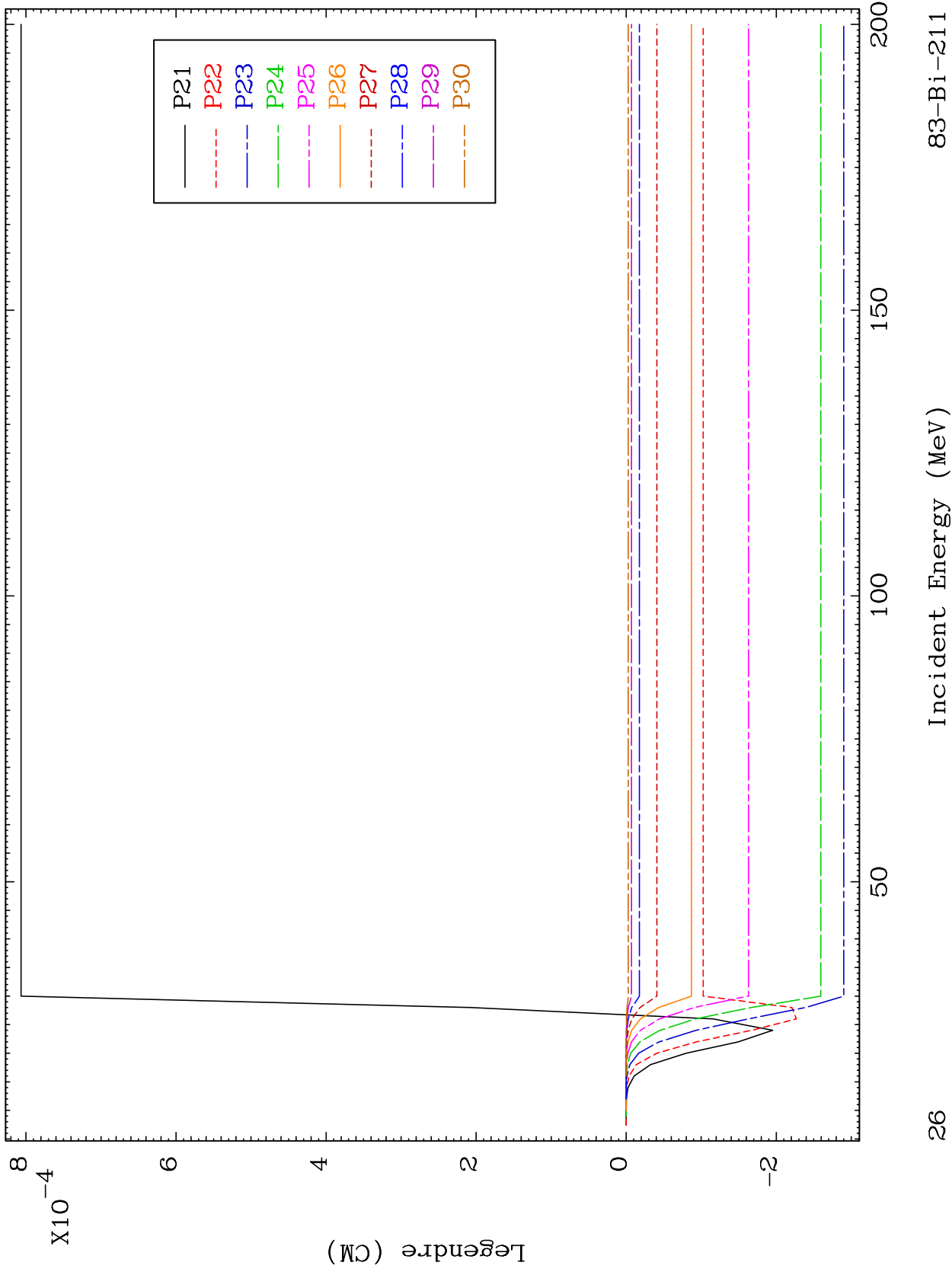
83-Bi-211

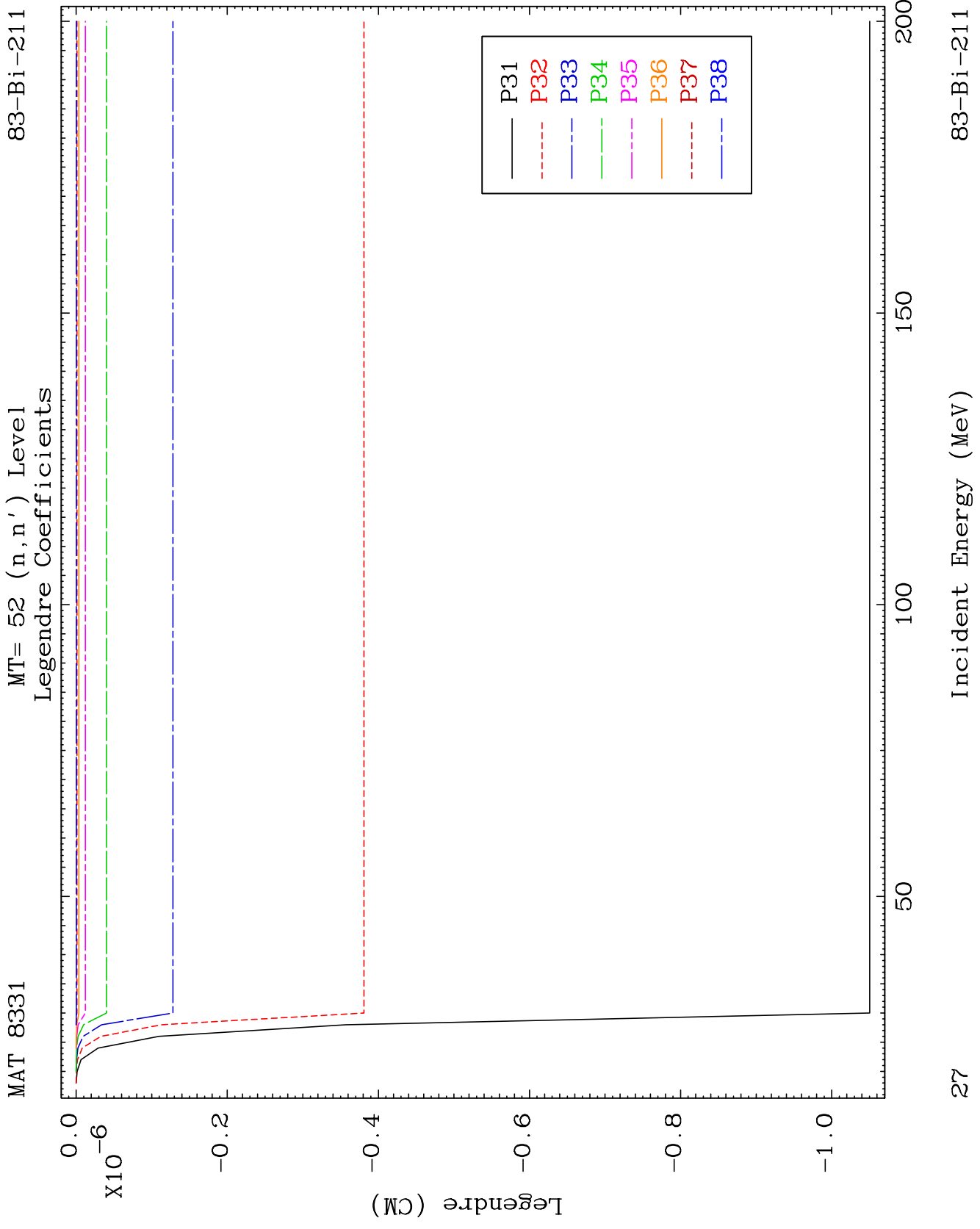


83-Bi-211

Incident Energy (MeV)

25

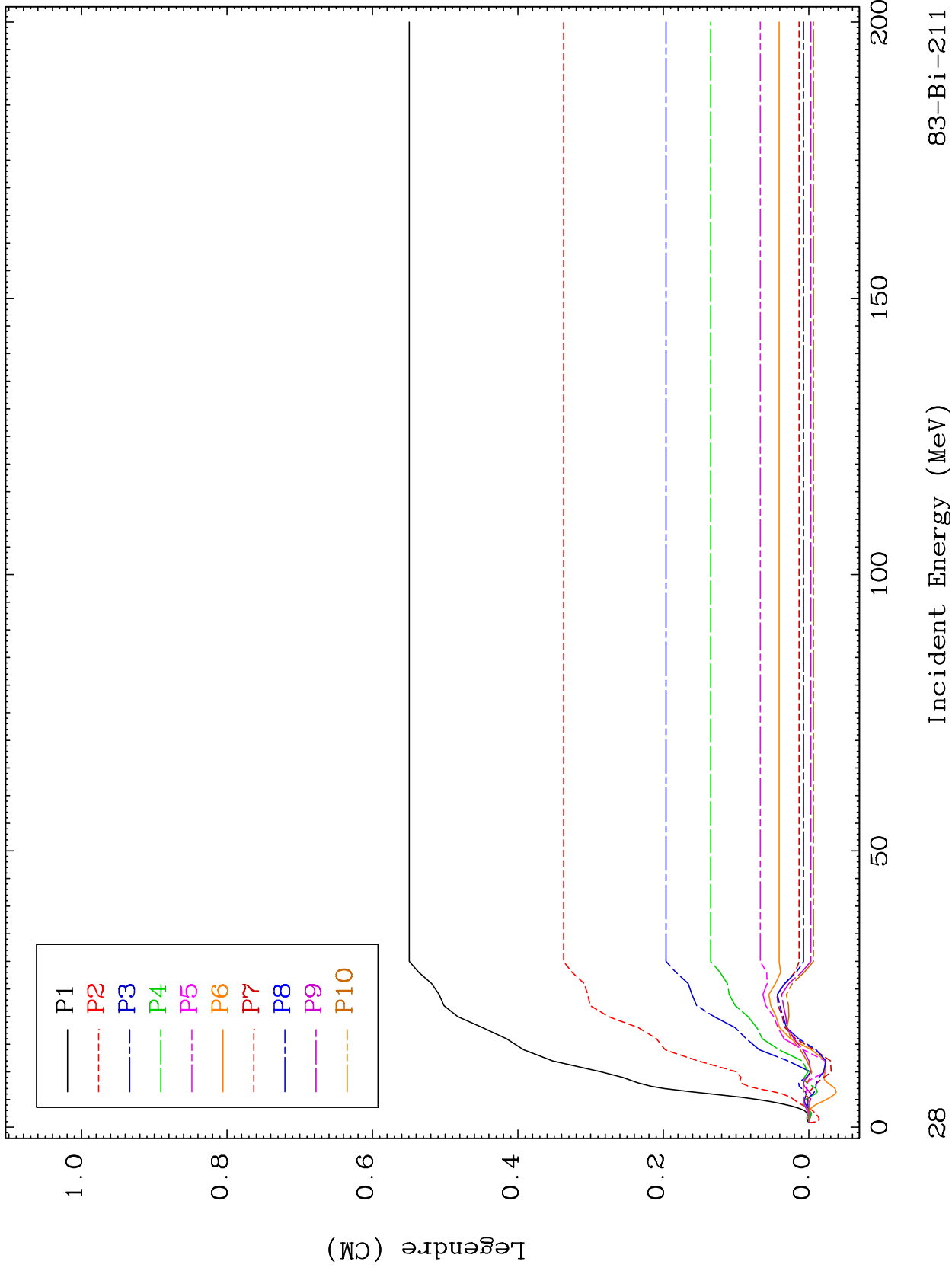




MAT 8331

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

83-Bi-211

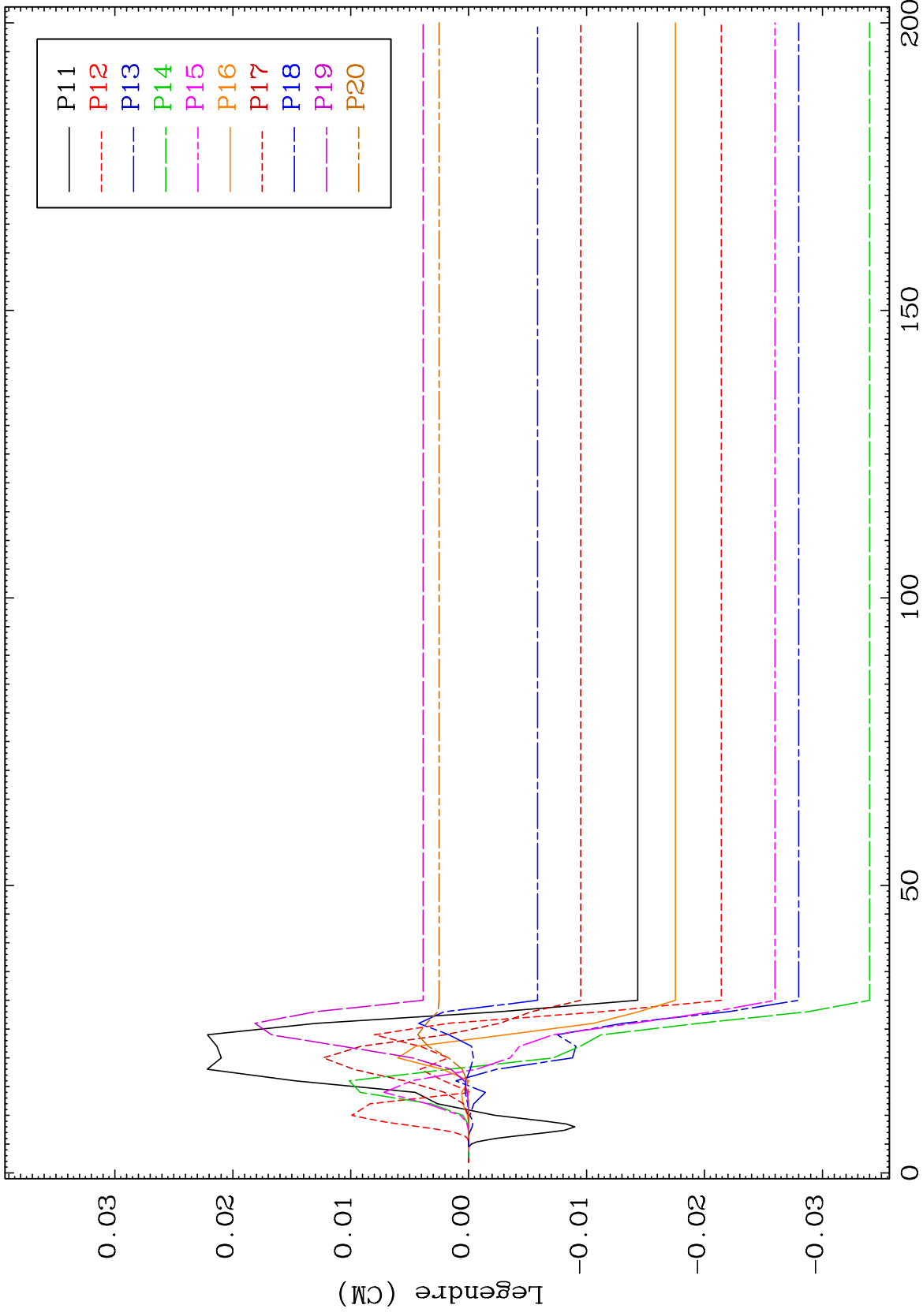


28

MAT 8331

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

83-Bi-211



29

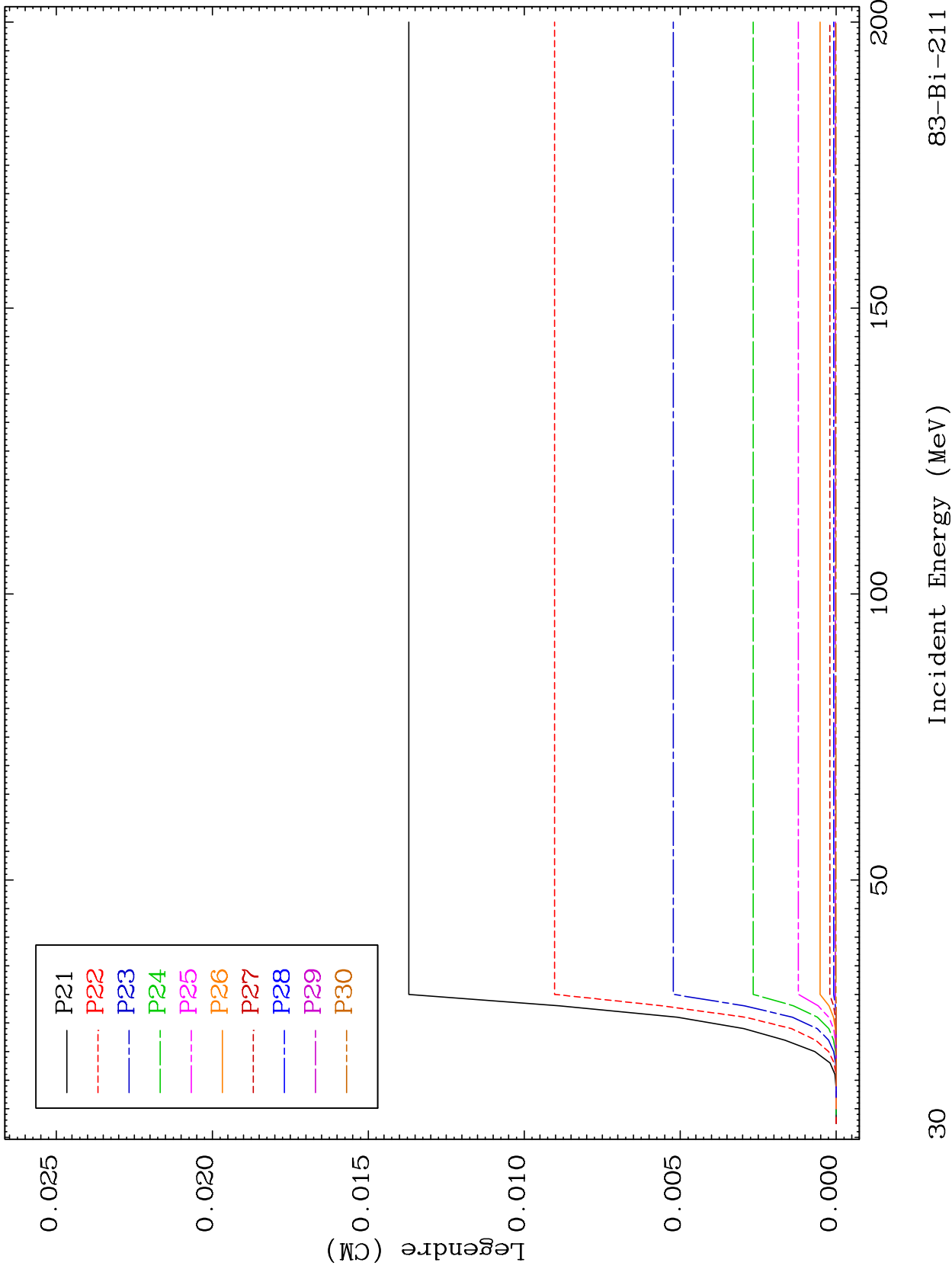
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



30

Incident Energy (MeV)

50

100

150

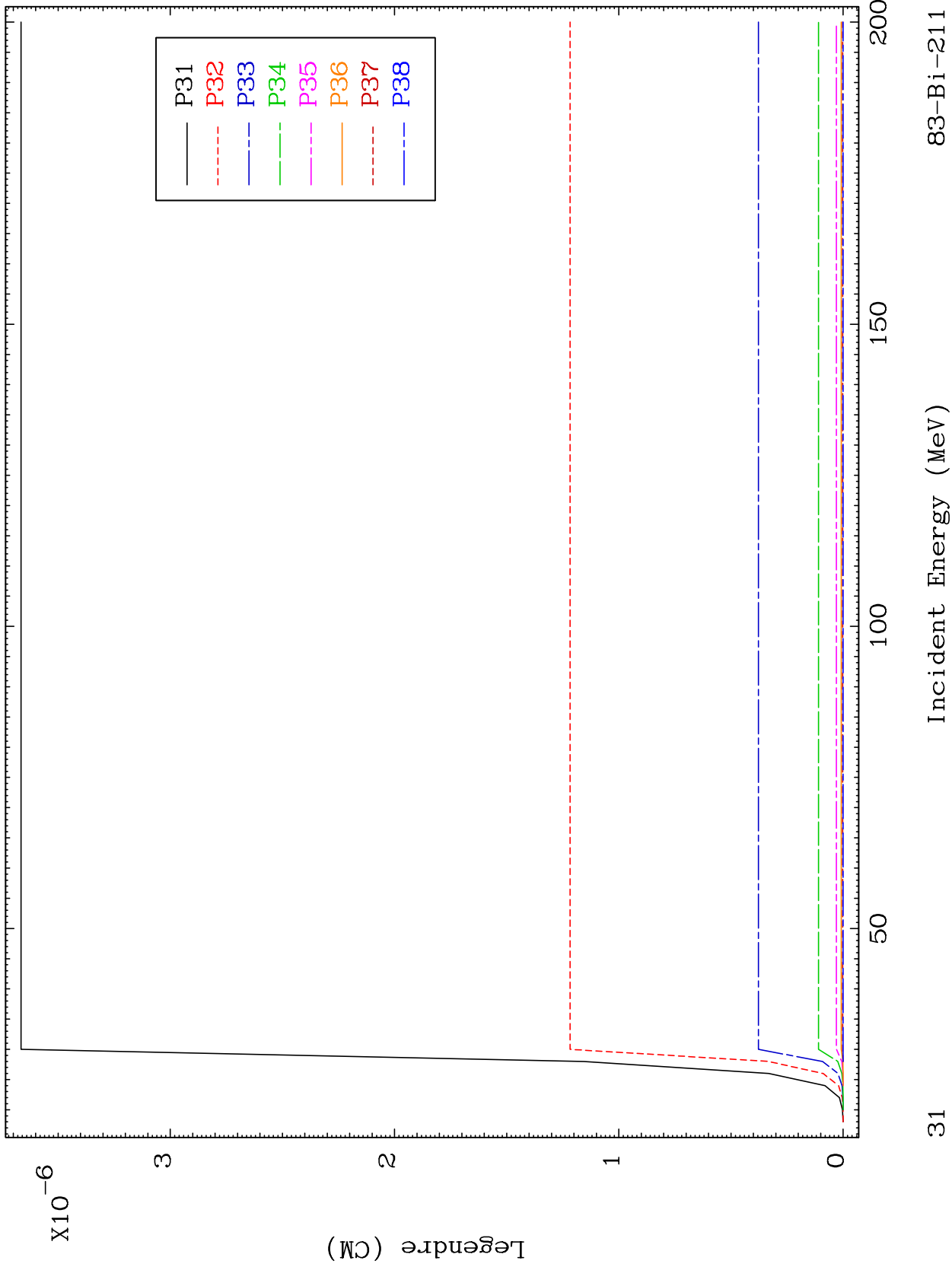
200

83-Bi-211

MAT 8331

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

83-Bi-211



31

Incident Energy (MeV)

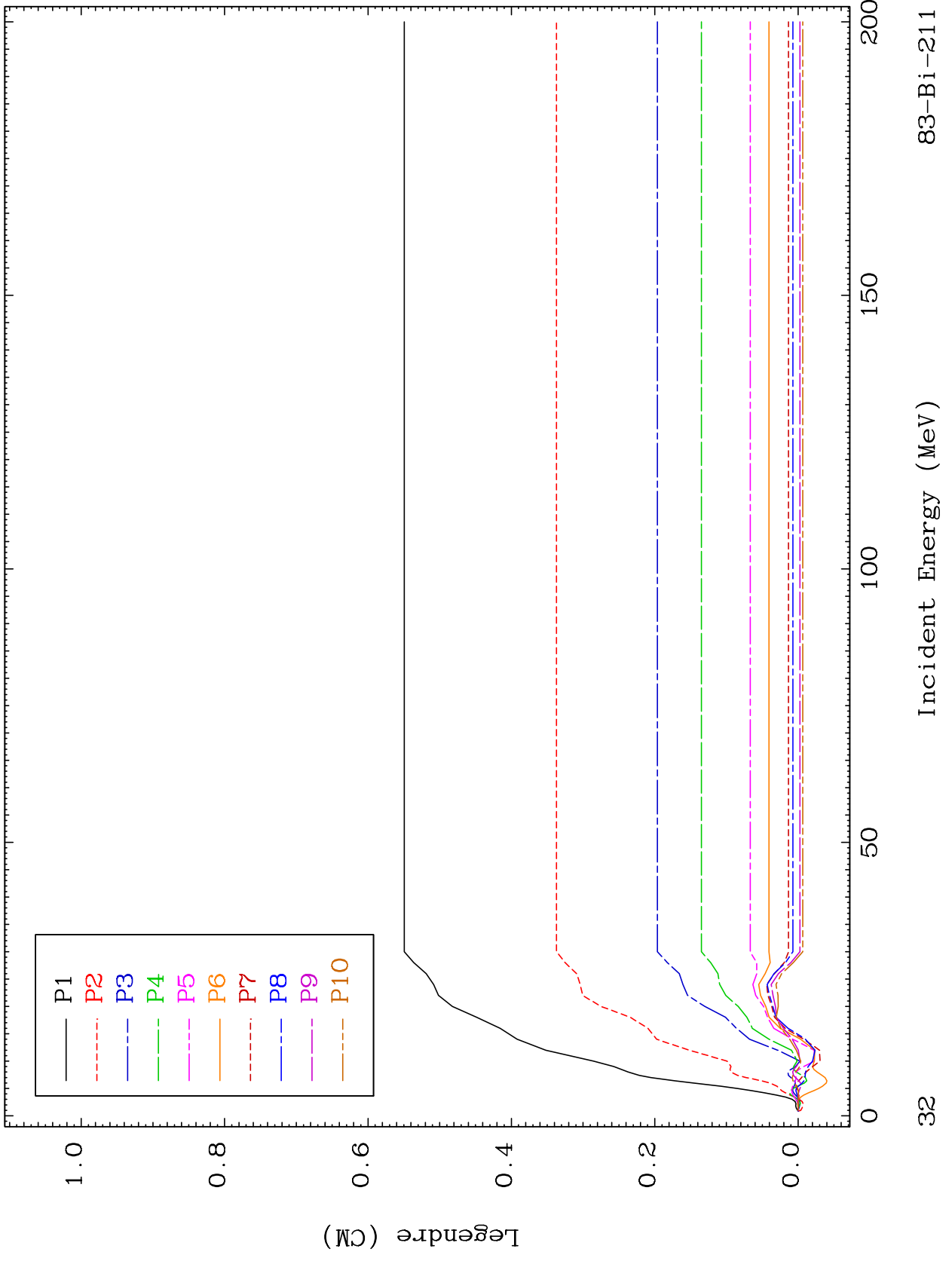
83-Bi-211



MAT 8331

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

83-Bi-211



32

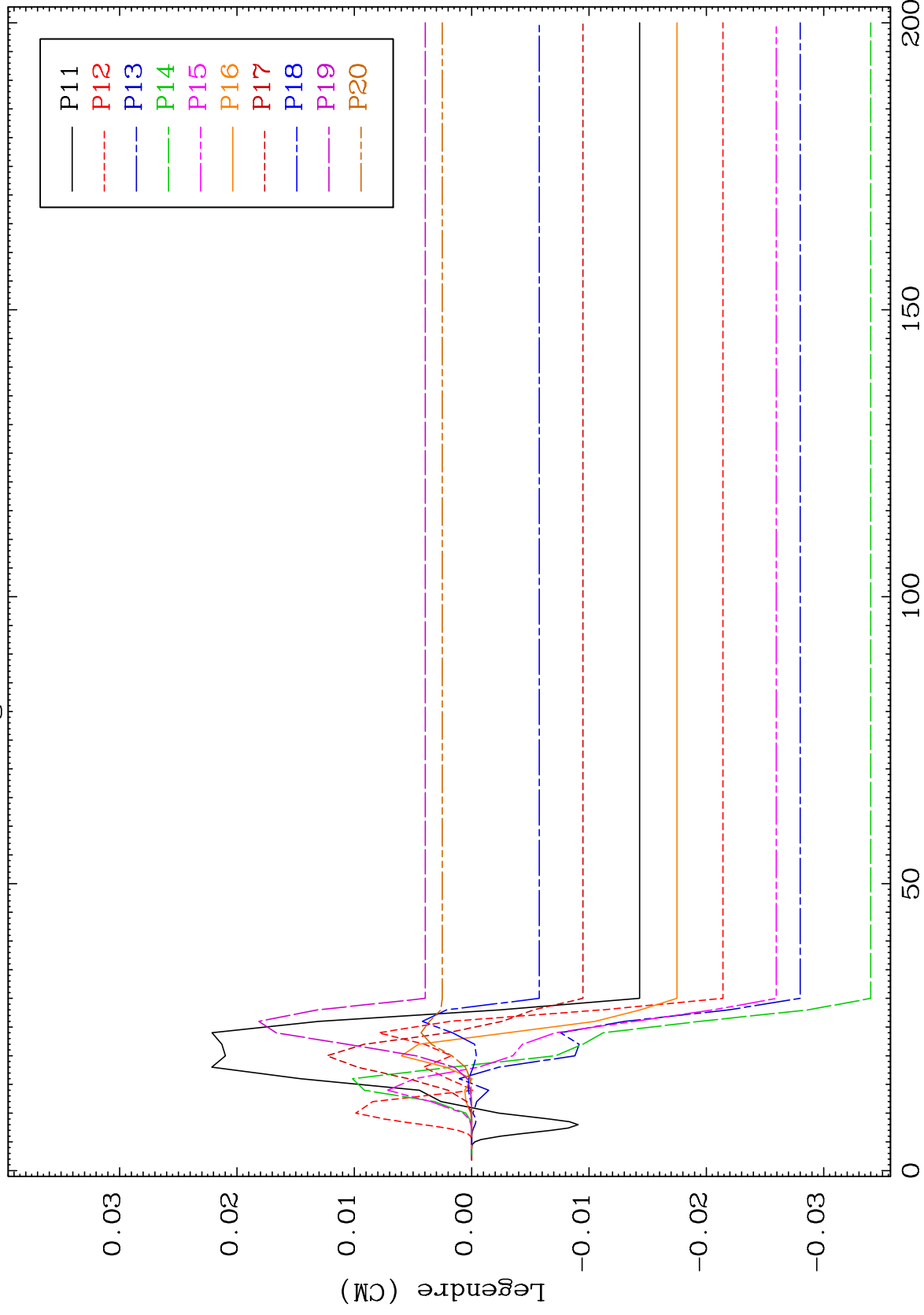
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

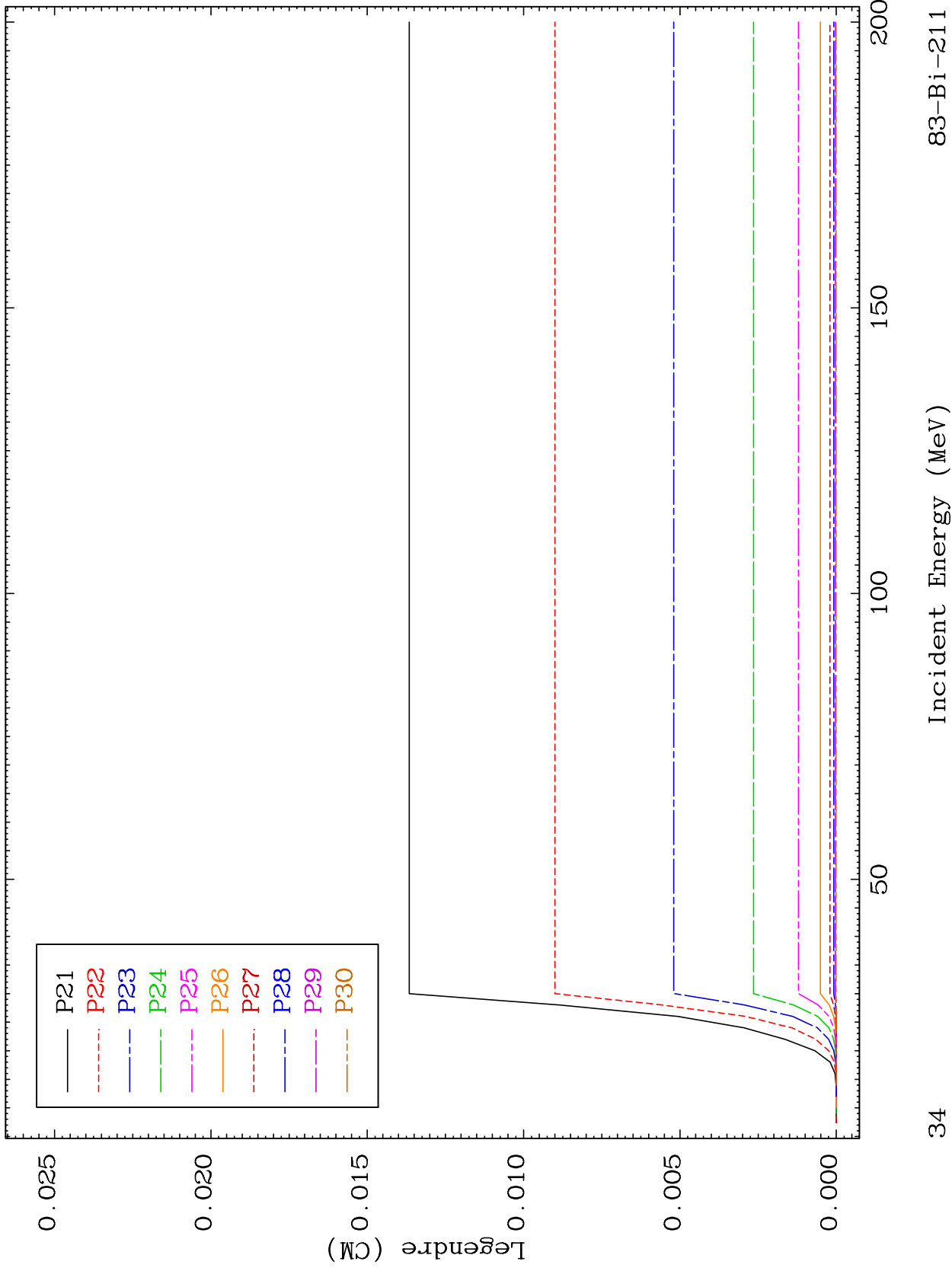
83-Bi-211



33

Incident Energy (MeV)

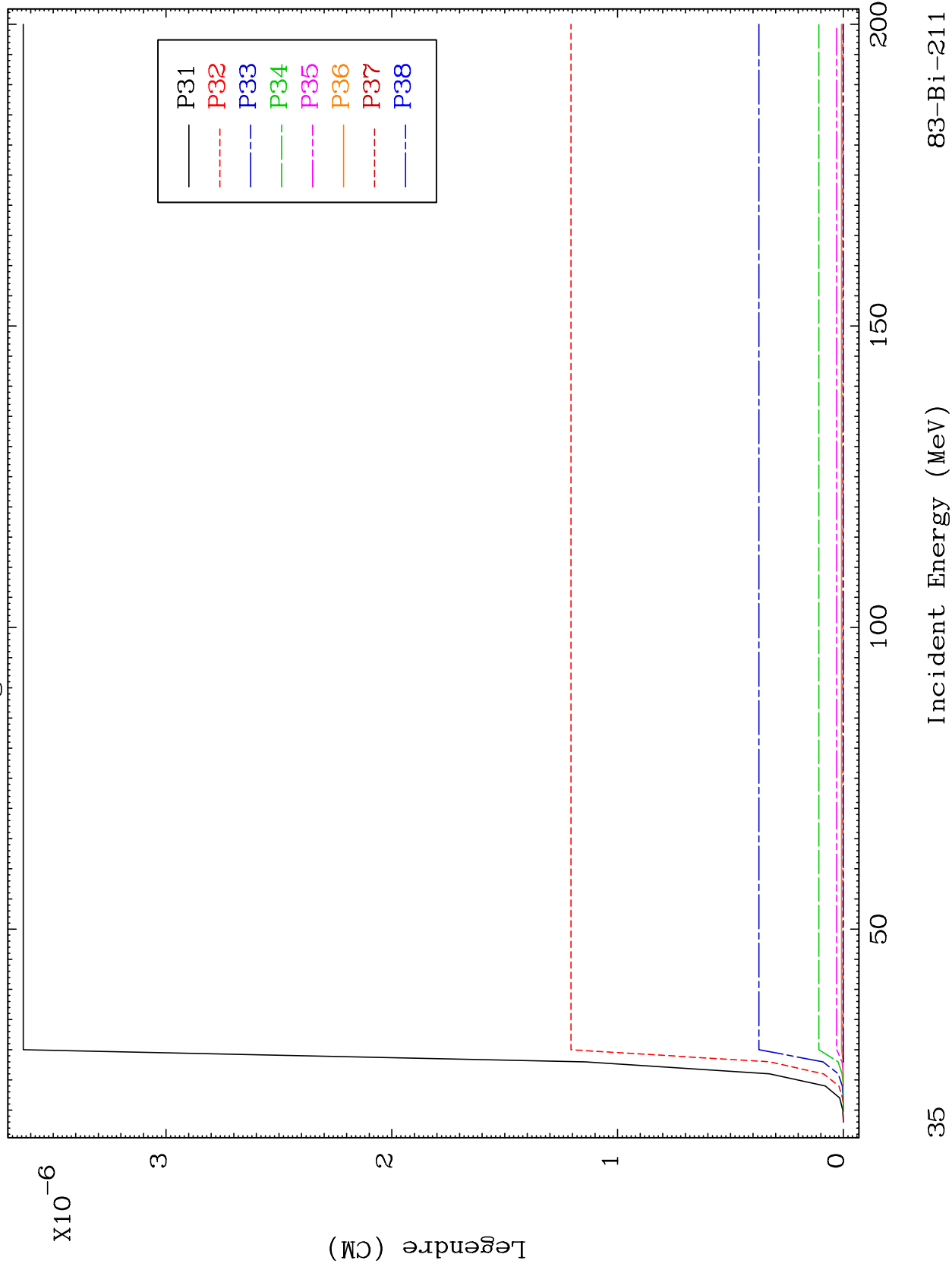
83-Bi-211



MAT 8331

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

83-Bi-211

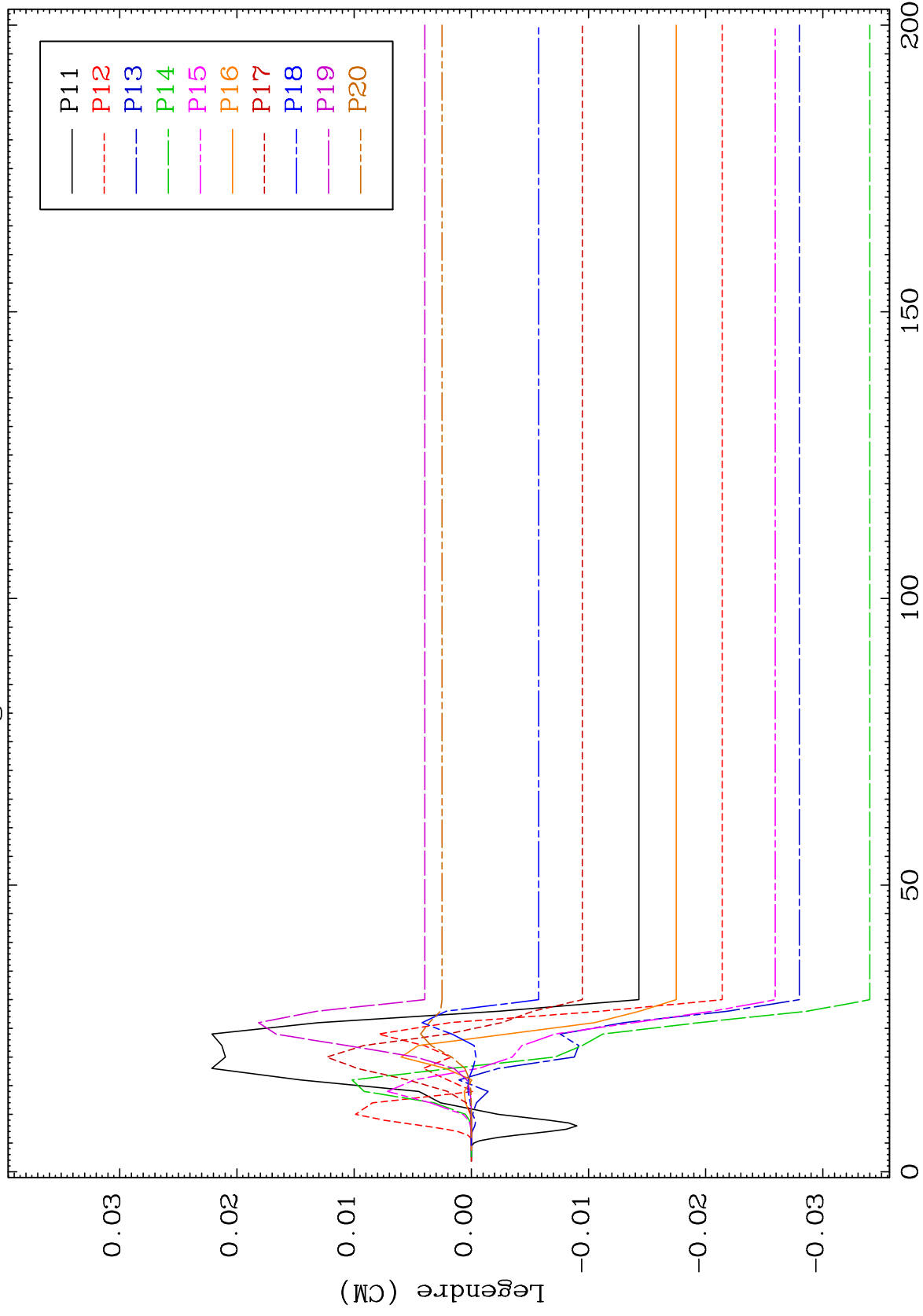




MAT 8331

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

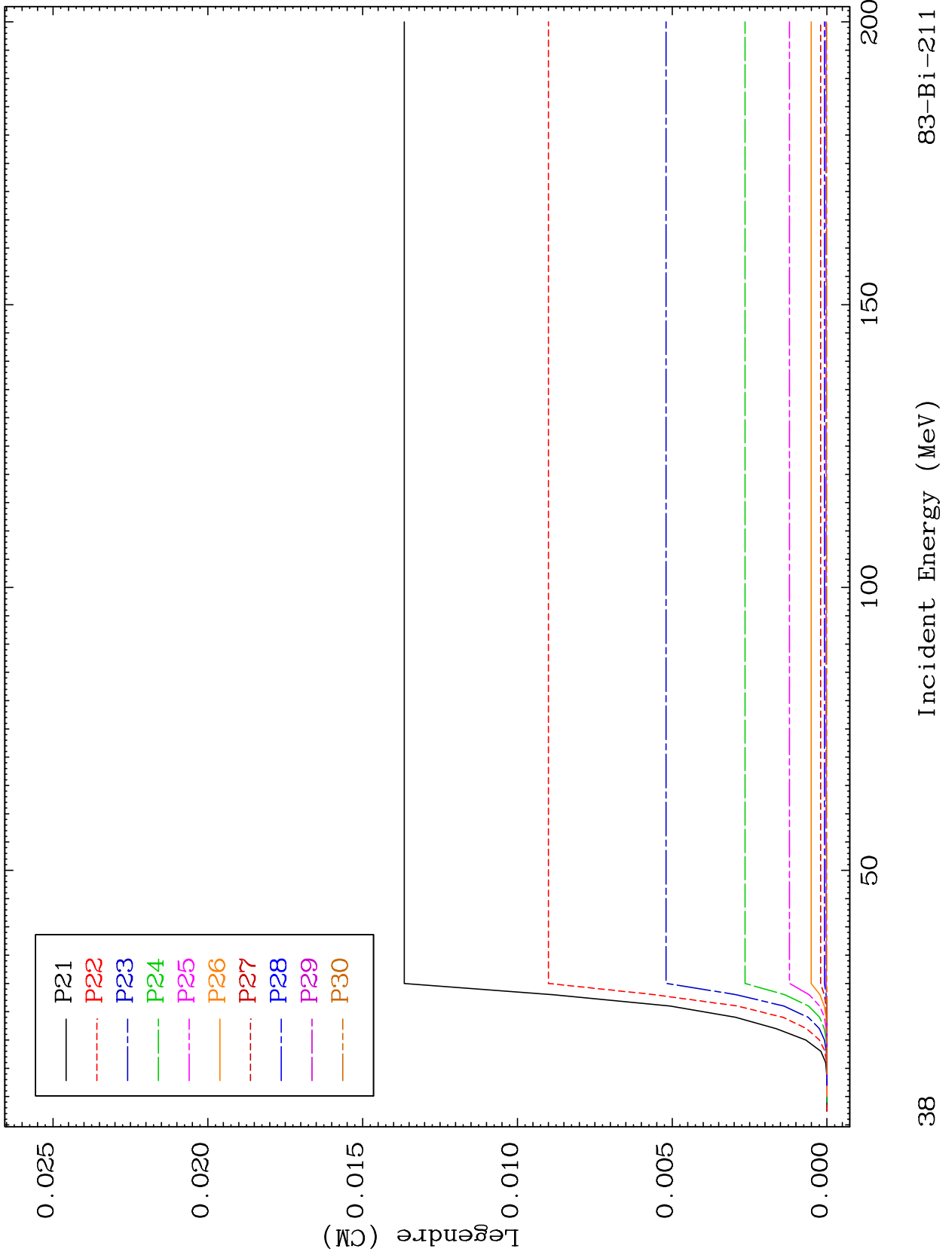
83-Bi-211



37

Incident Energy (MeV)

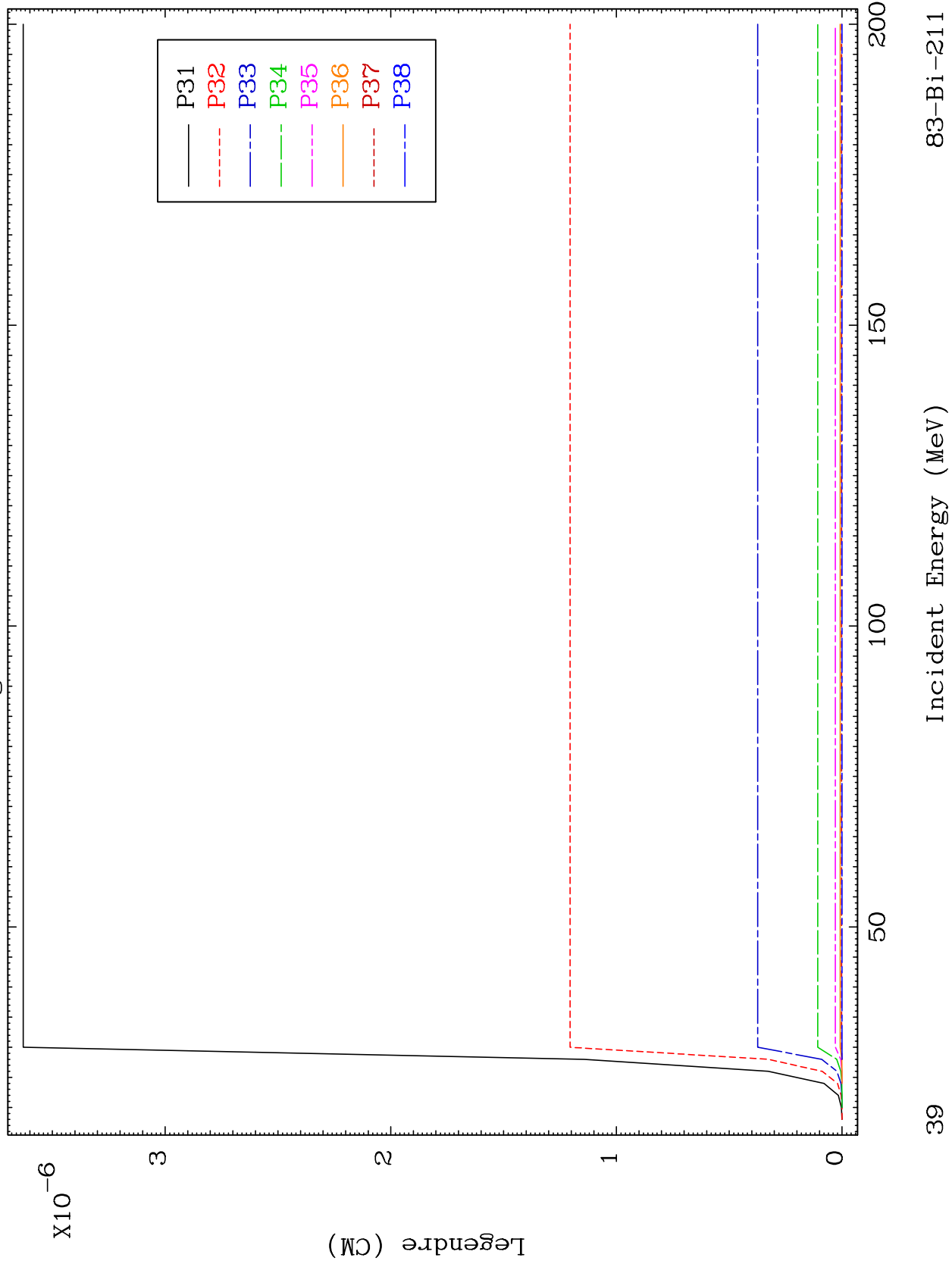
83-Bi-211



MAT 8331

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

83-Bi-211



39

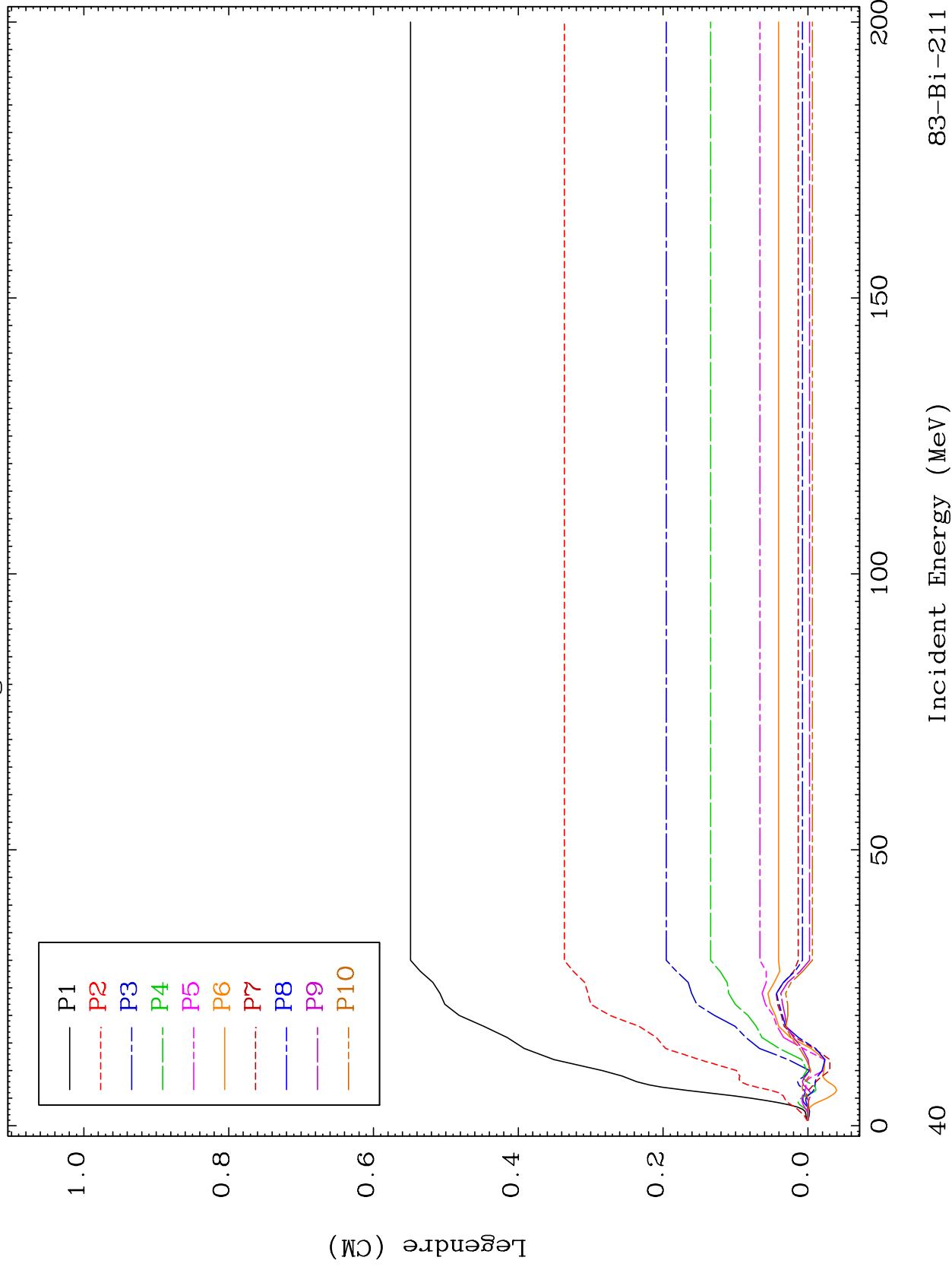
83-Bi-211



MAT 8331

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

83-Bi-211

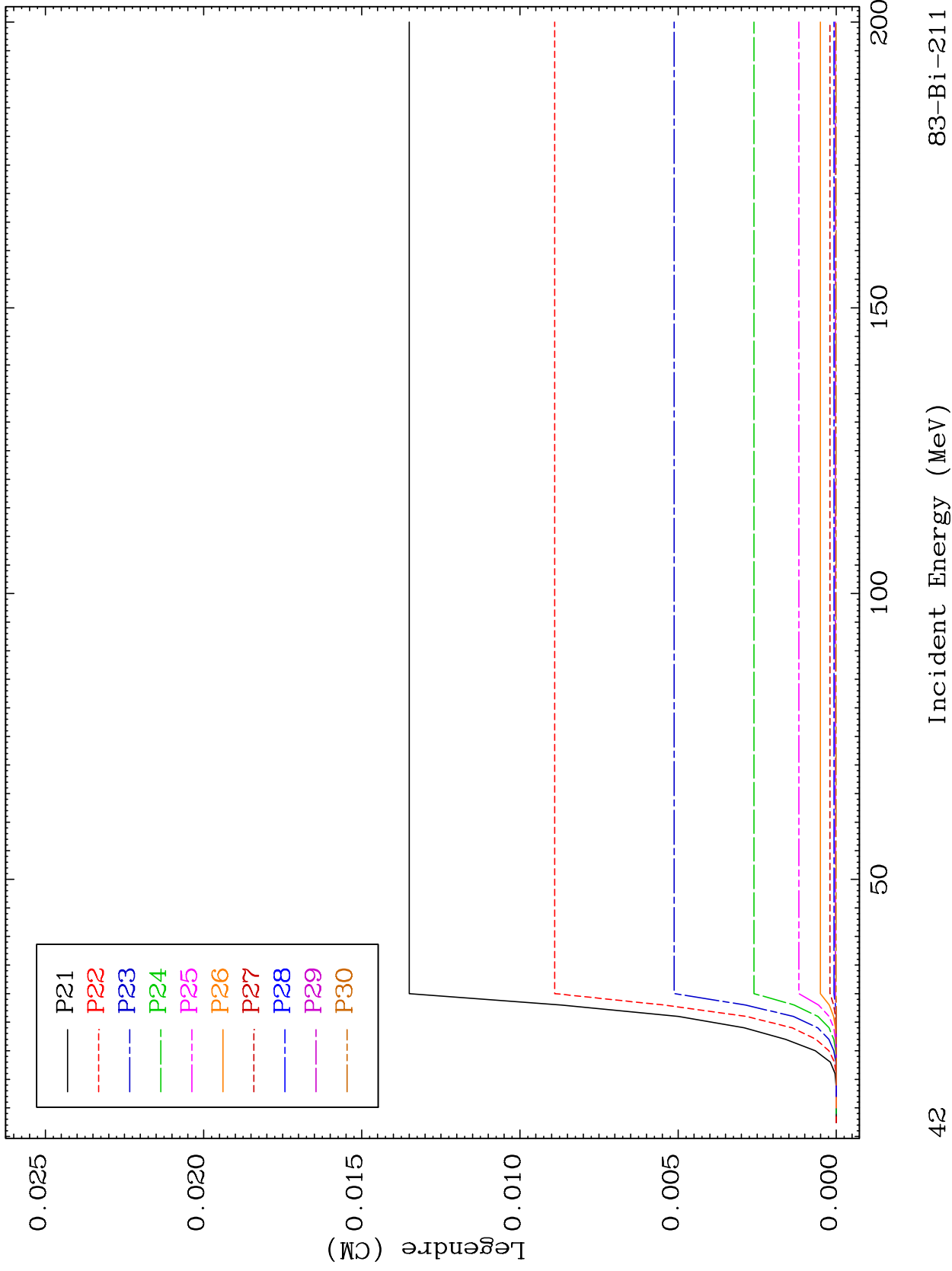




MAT 8331

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

83-Bi-211



42

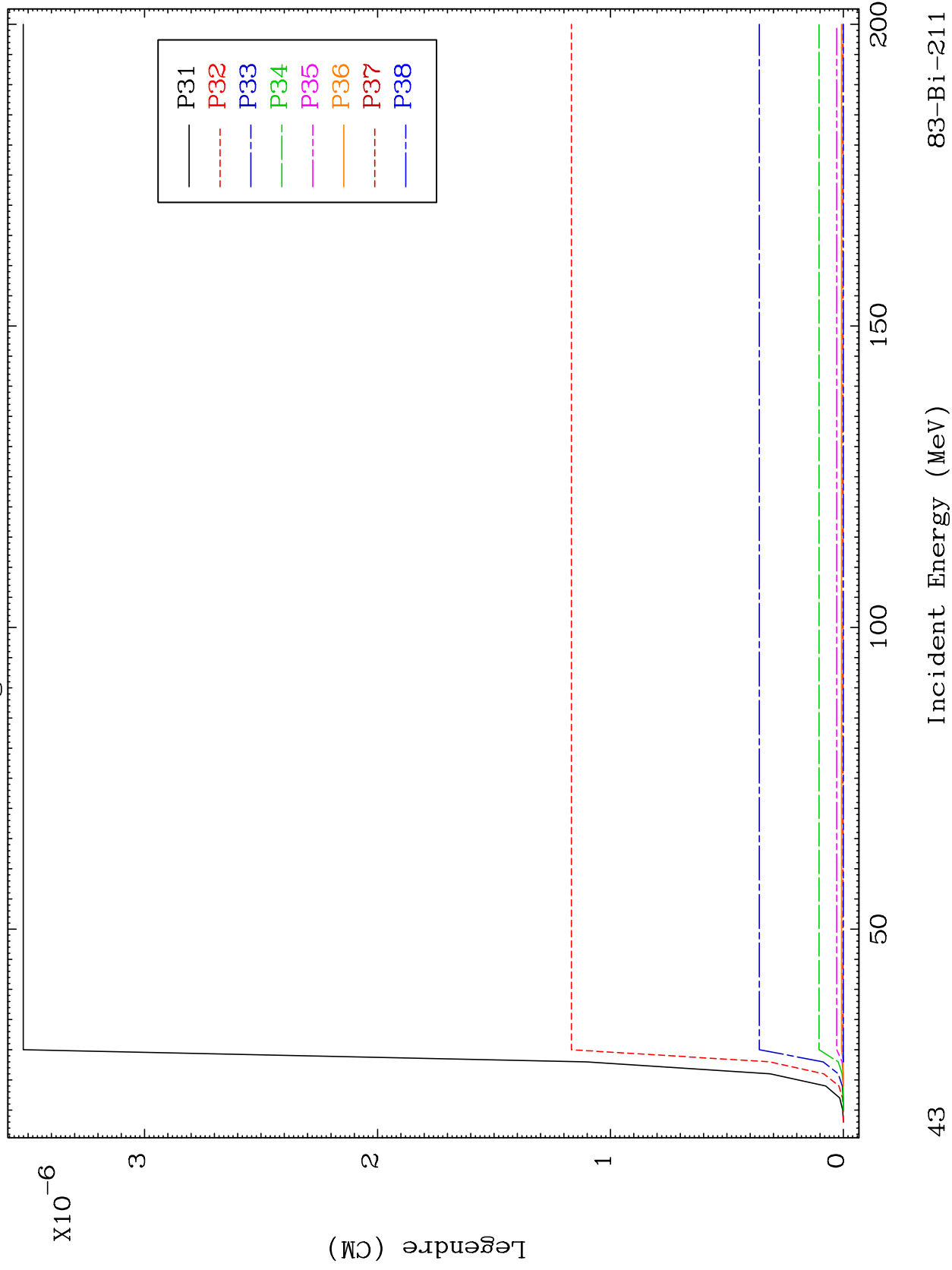
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



43

Incident Energy (MeV)

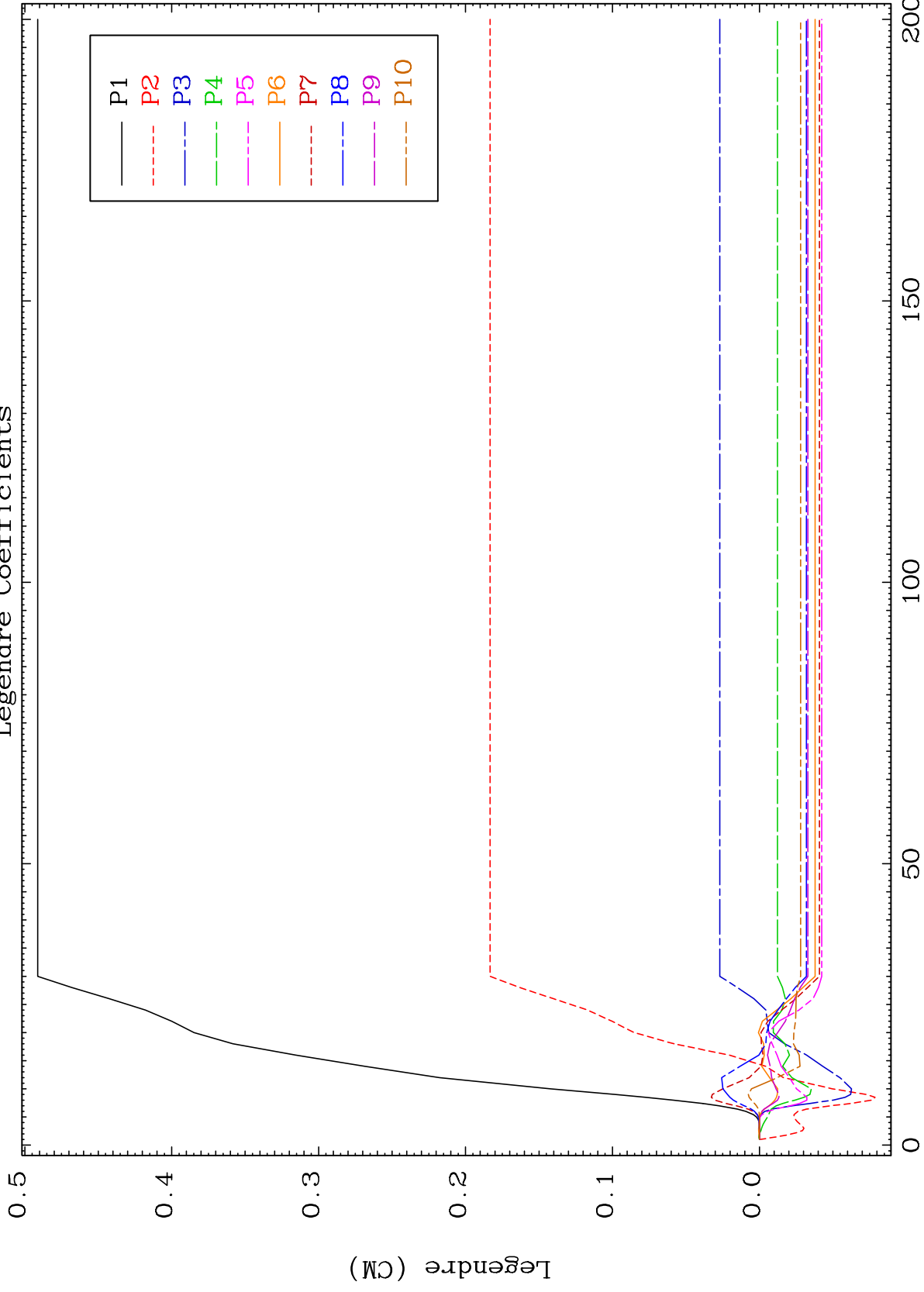
83-Bi-211

MAT 8331

MT= 57 (n,n') Level

83-Bi-211

Legendre Coefficients



44

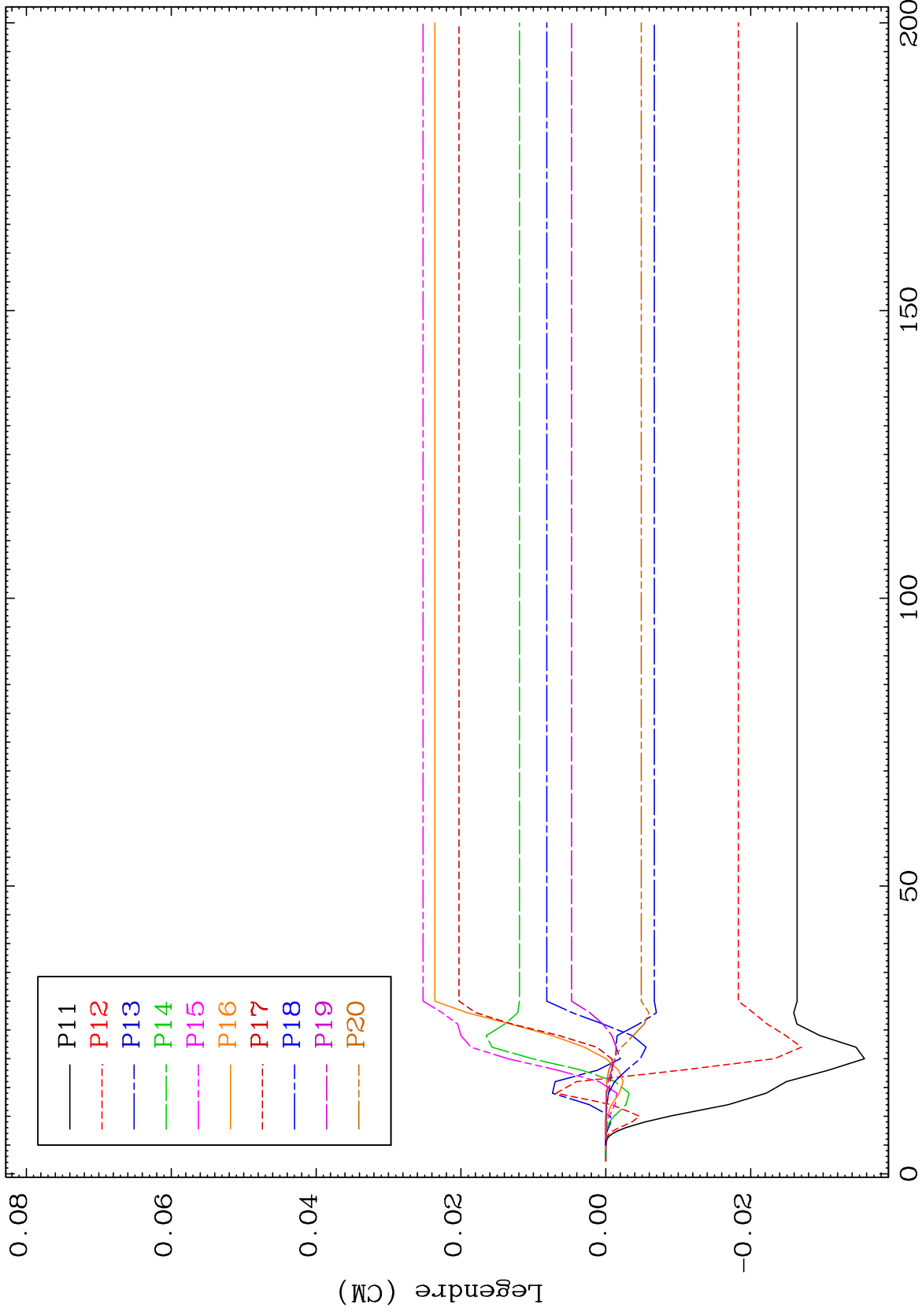
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



45

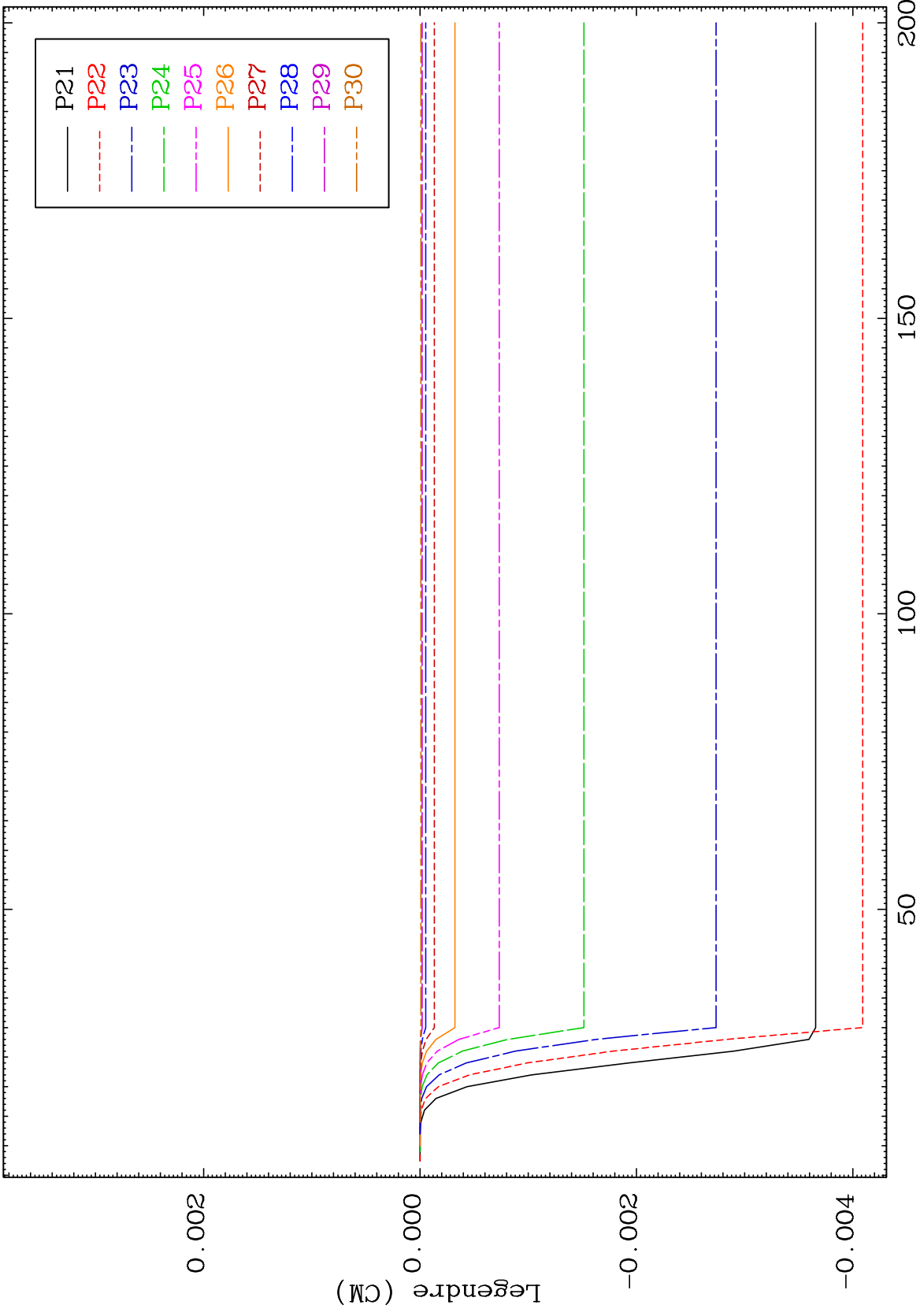
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

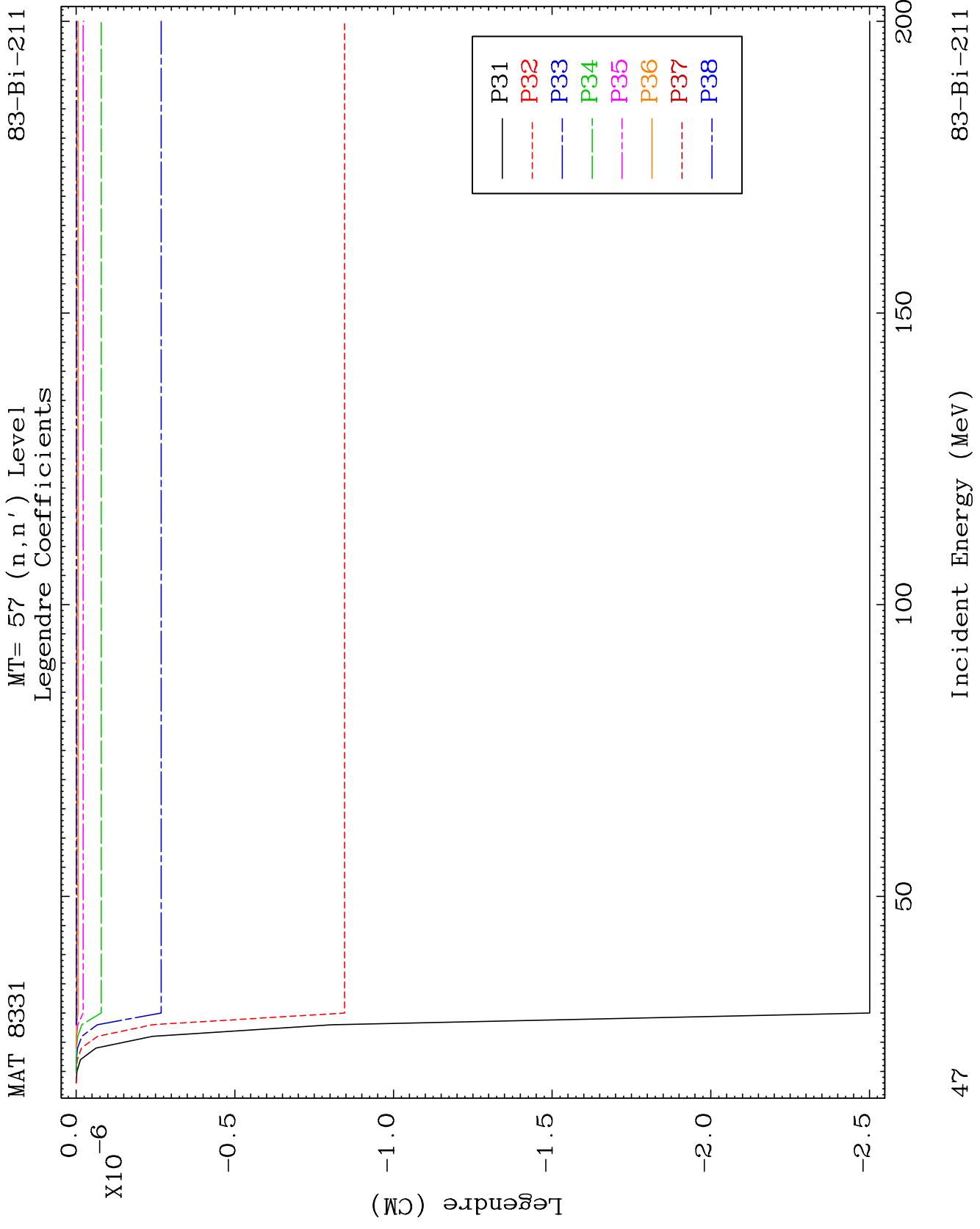
83-Bi-211



46

Incident Energy (MeV)

83-Bi-211



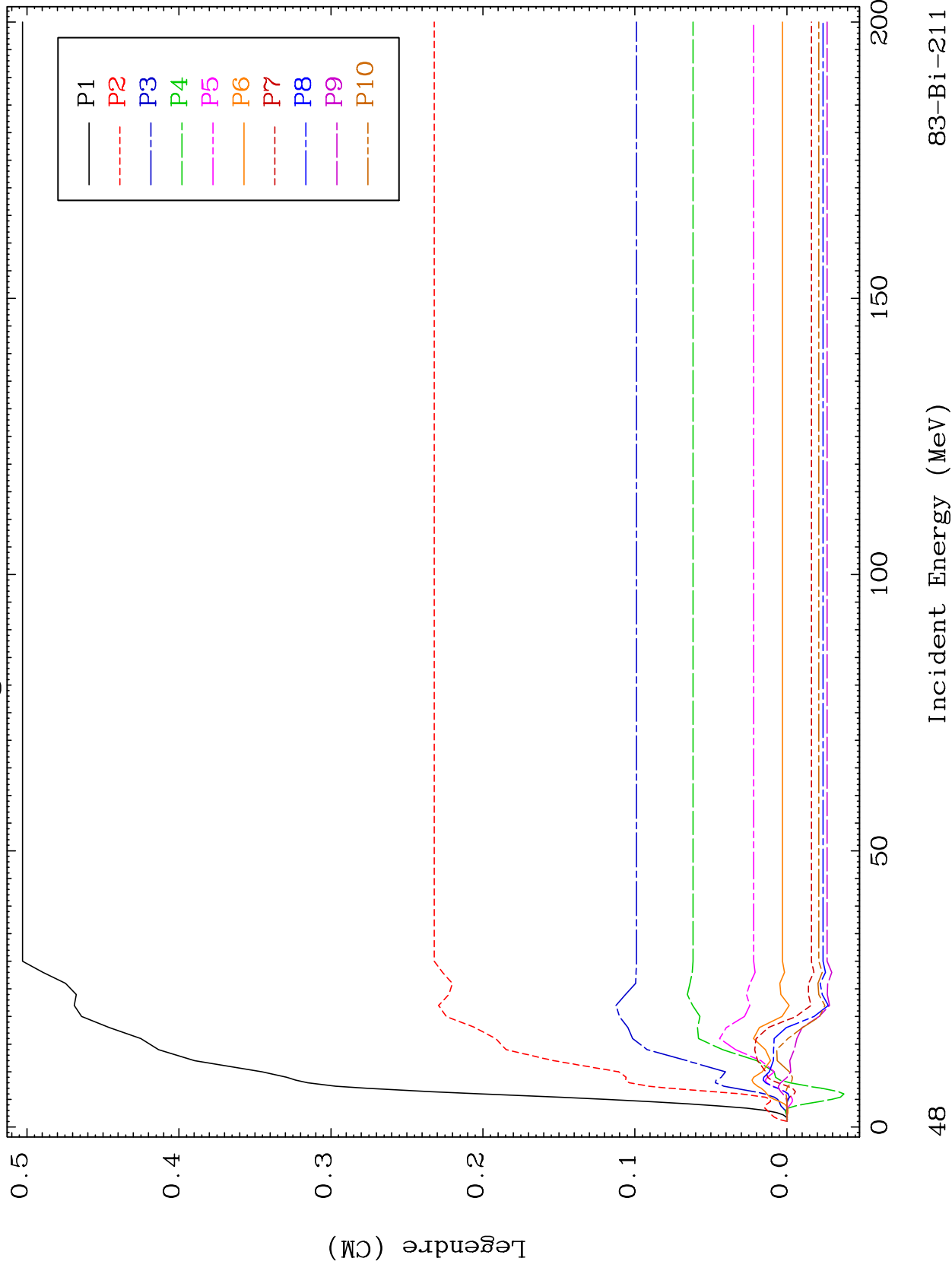


MAT 8331

MT= 58 (n,n') Level

83-Bi-211

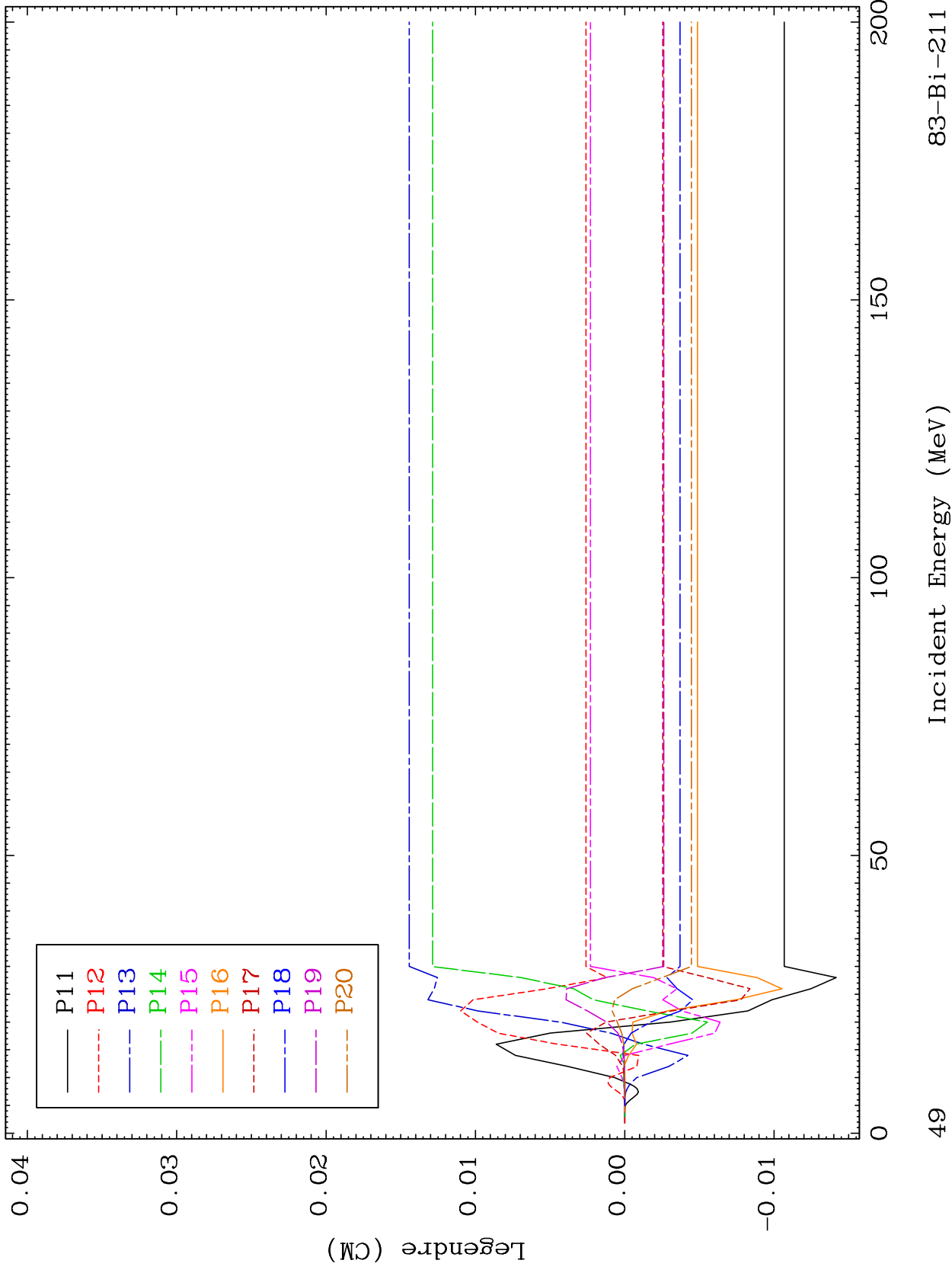
Legendre Coefficients



MAT 8331

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

83-Bi-211



49

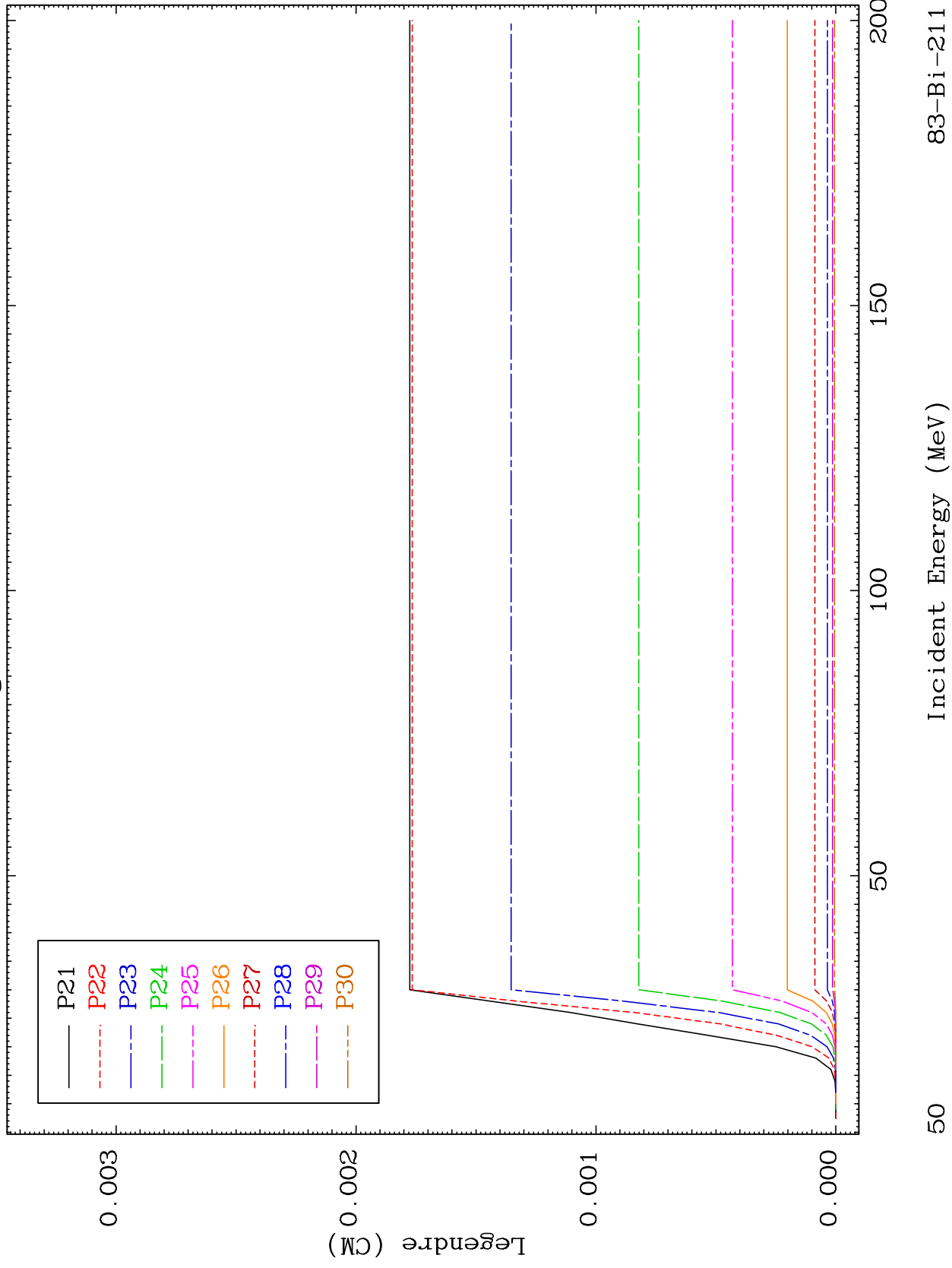
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



83-Bi-211

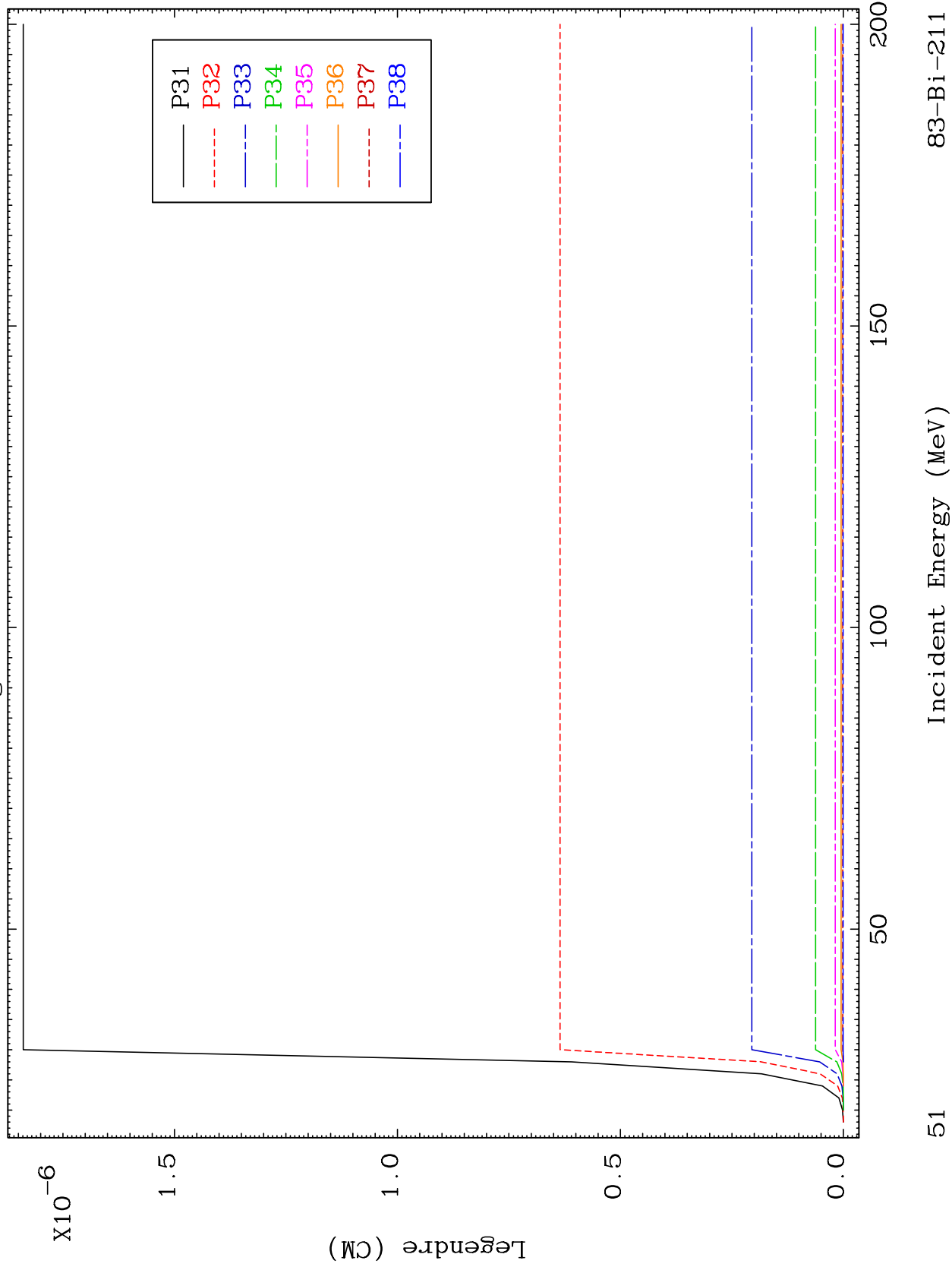
Incident Energy (MeV)

50

MAT 8331

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

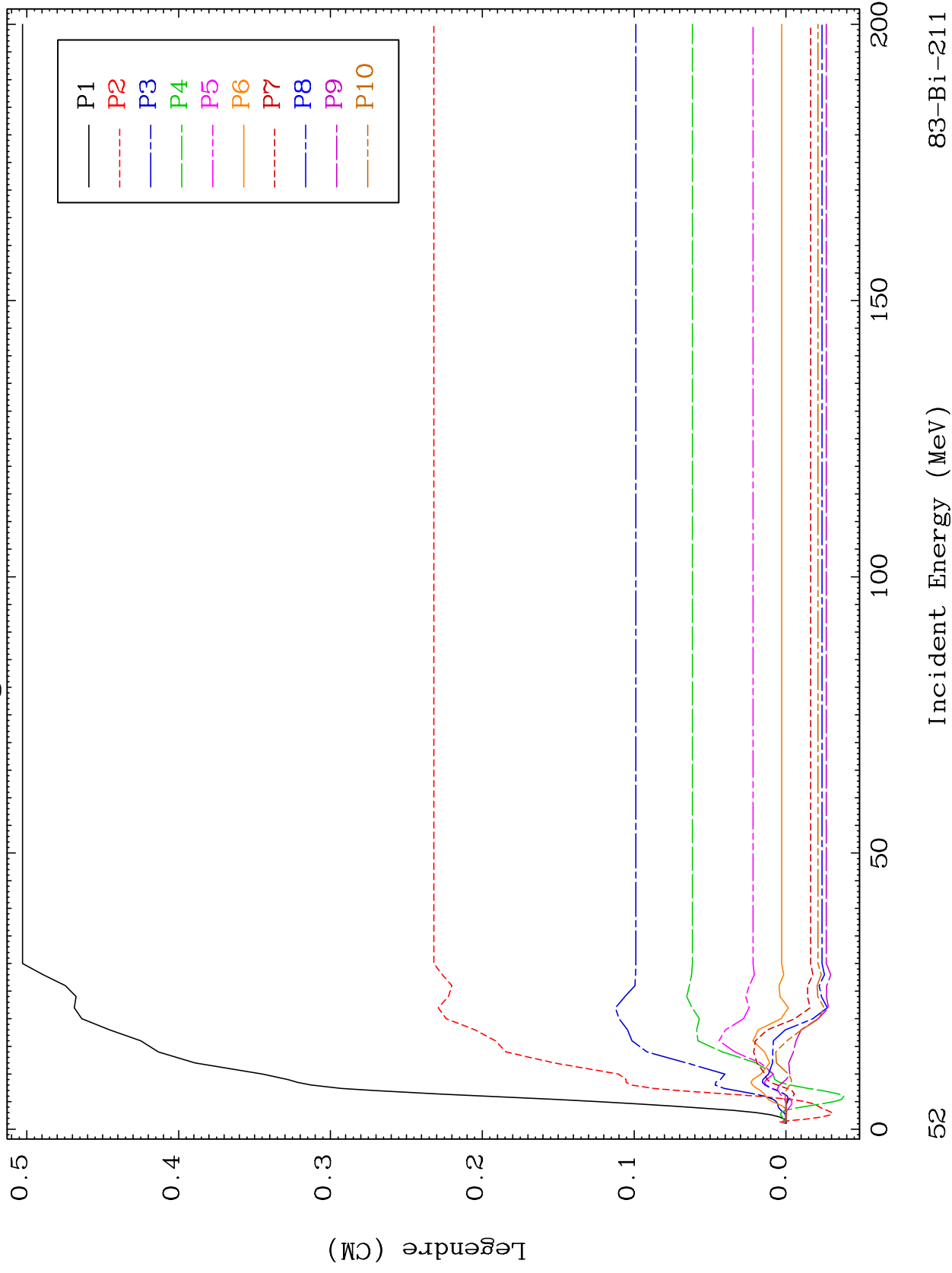
83-Bi-211



MAT 8331

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

83-Bi-211



83-Bi-211

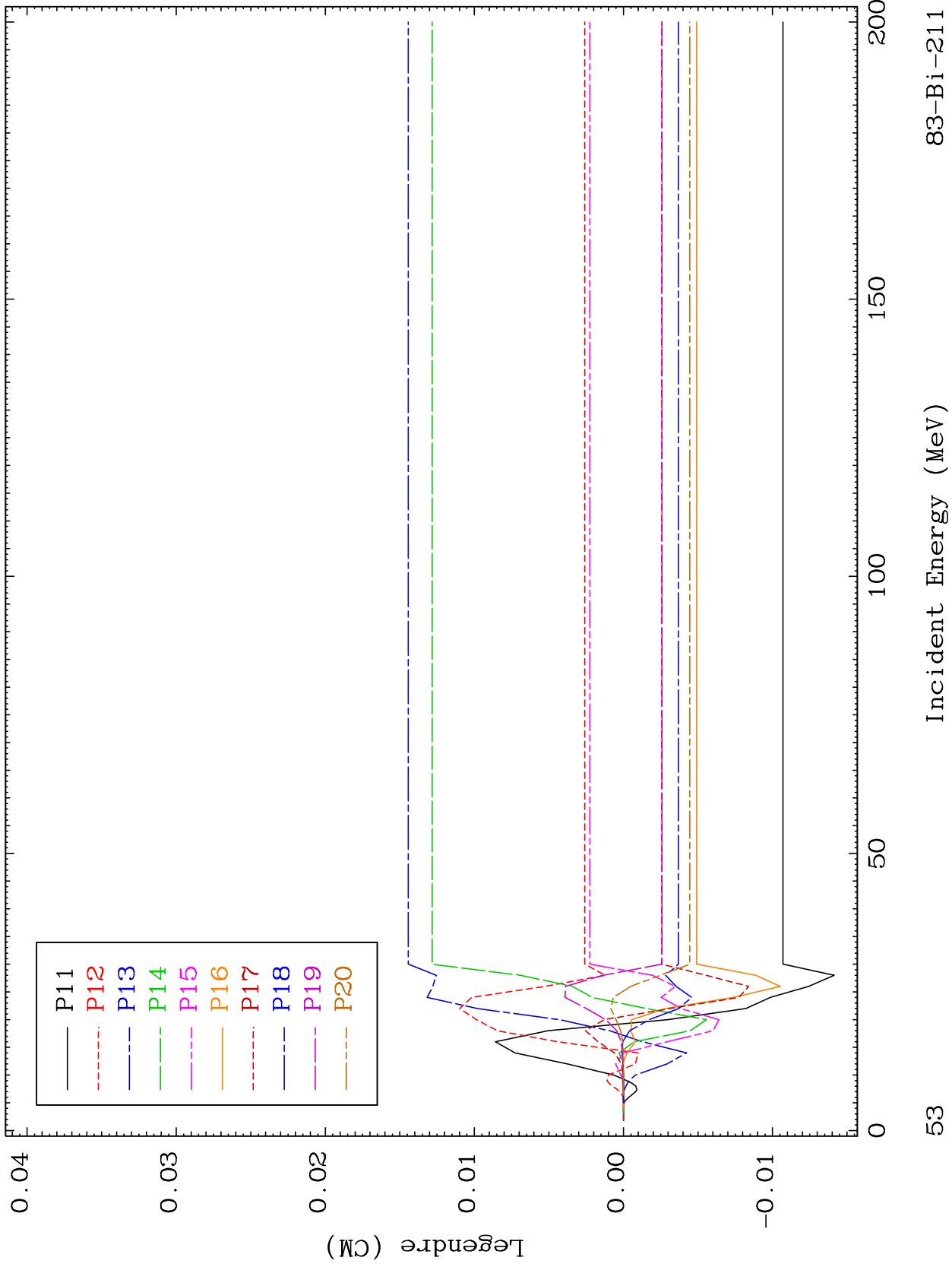
Incident Energy (MeV)

52

MAT 8331

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

83-Bi-211



53

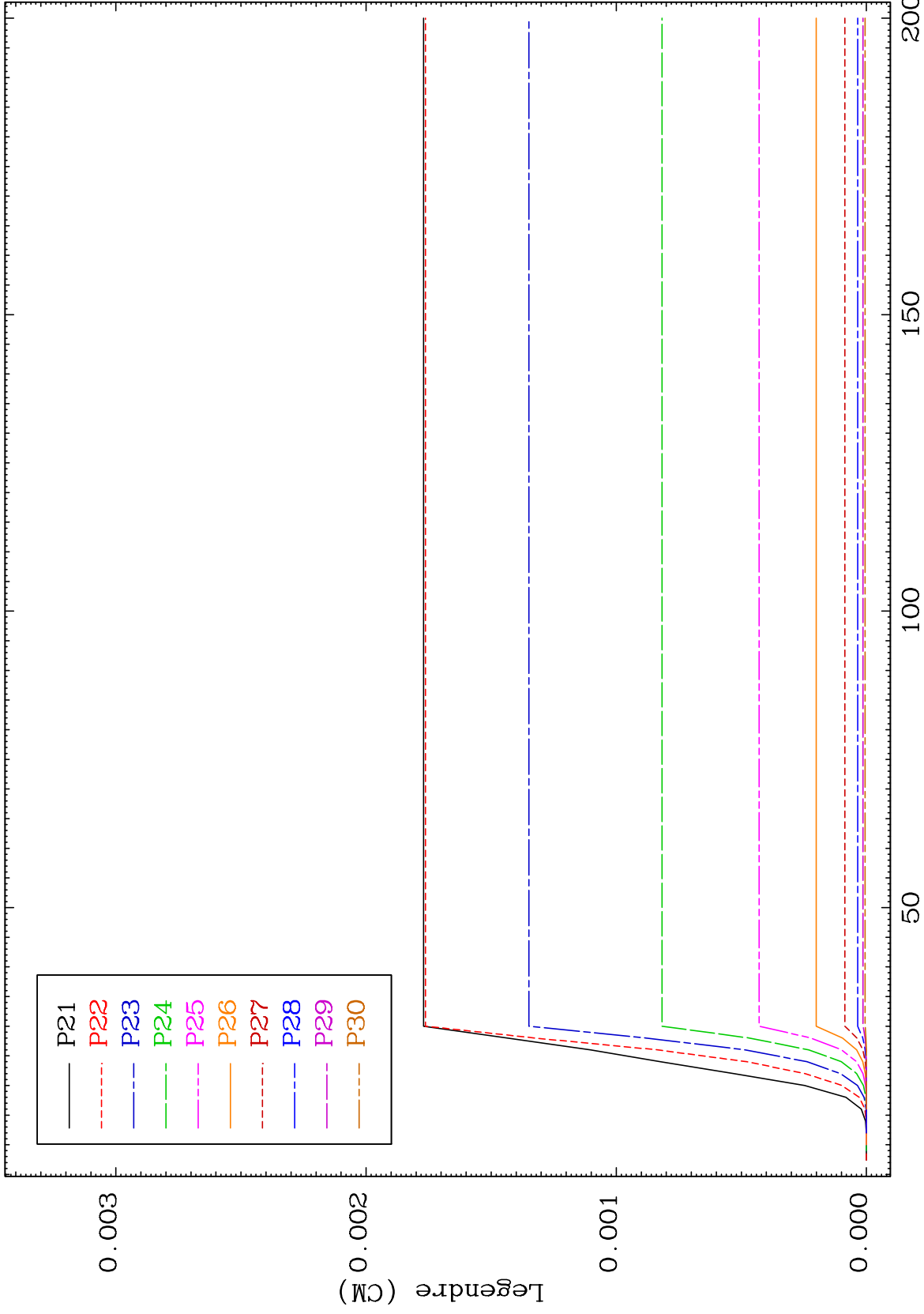
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



54

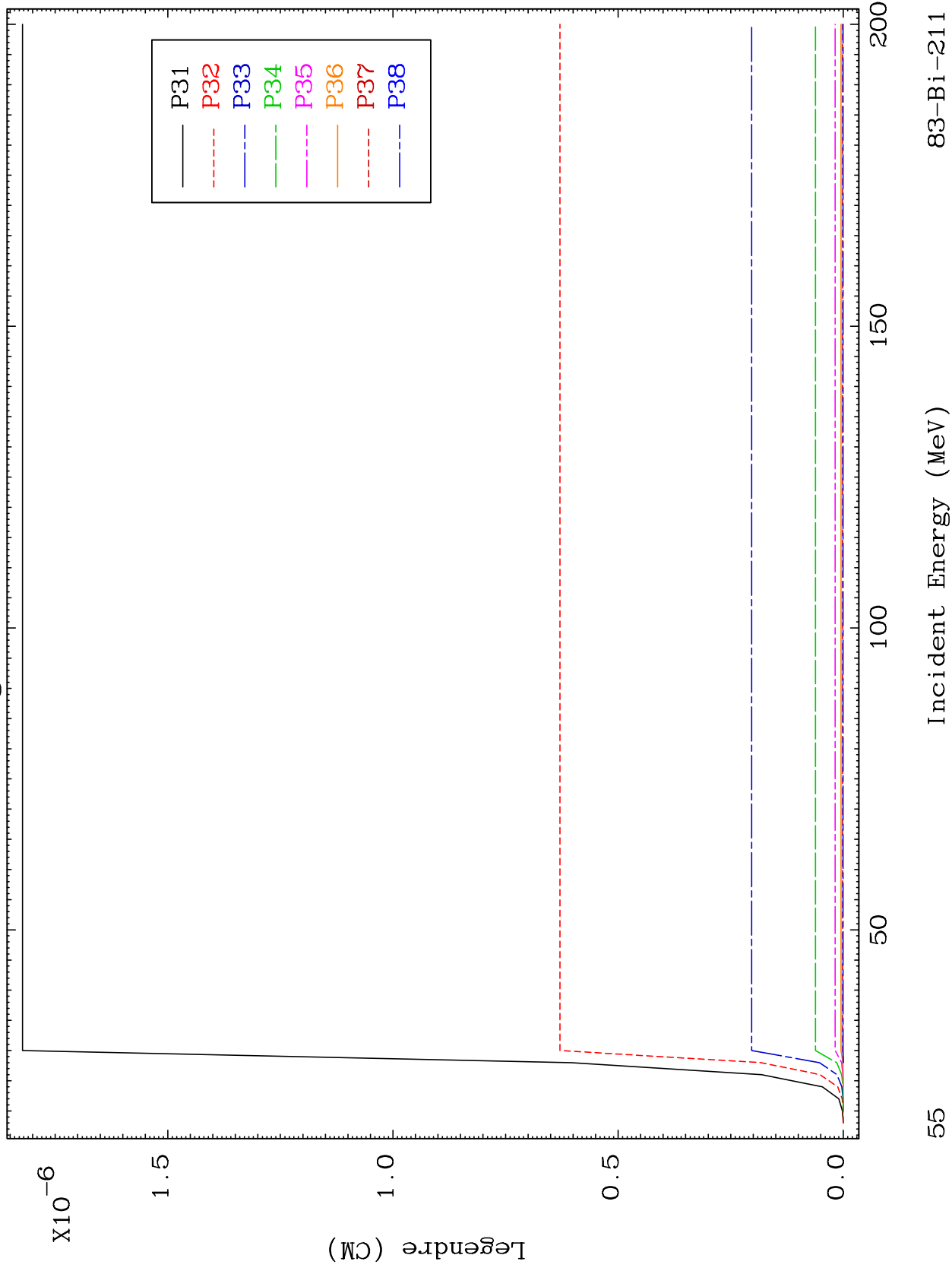
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



55

Incident Energy (MeV)

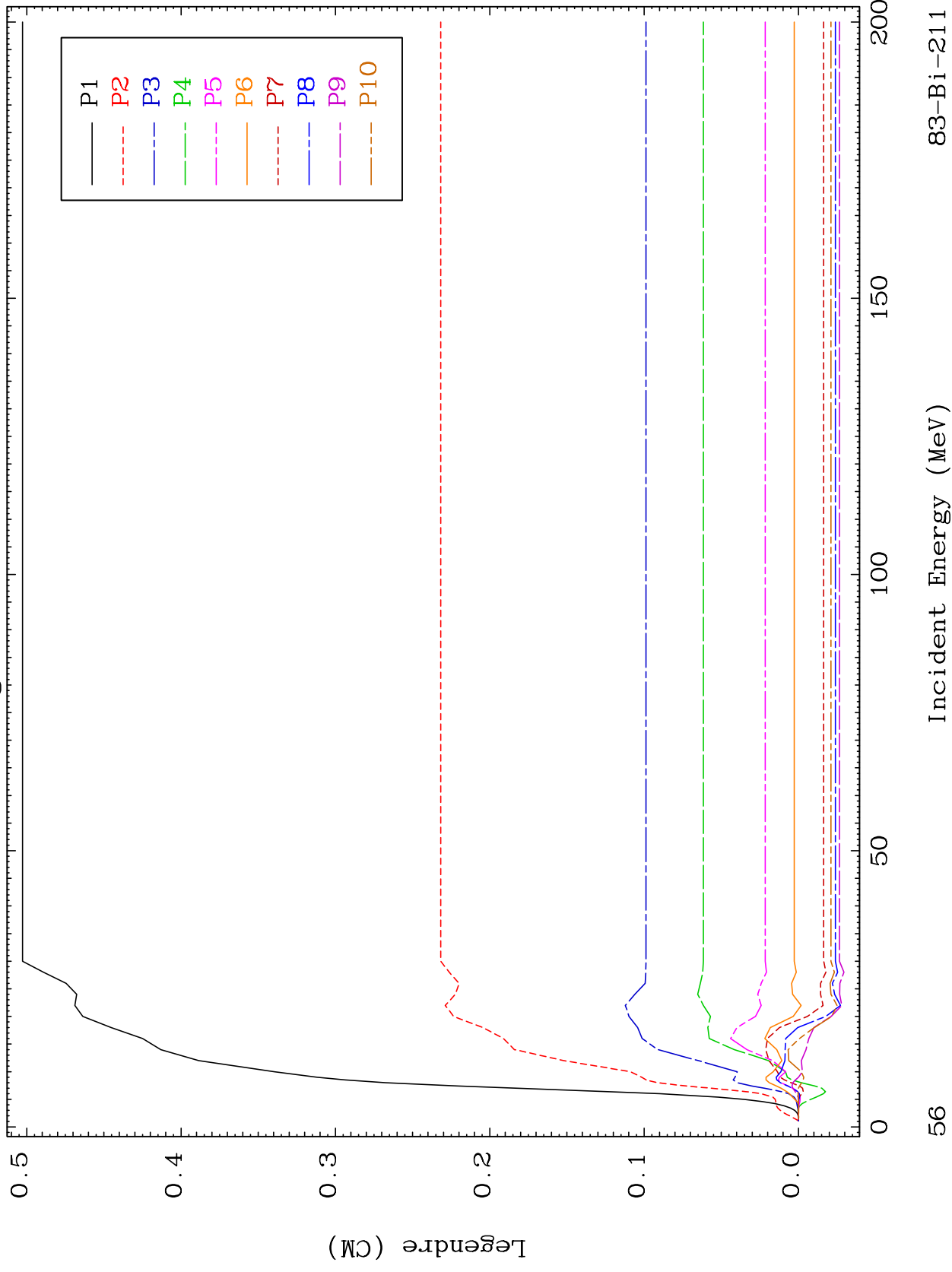
83-Bi-211



MAT 8331

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

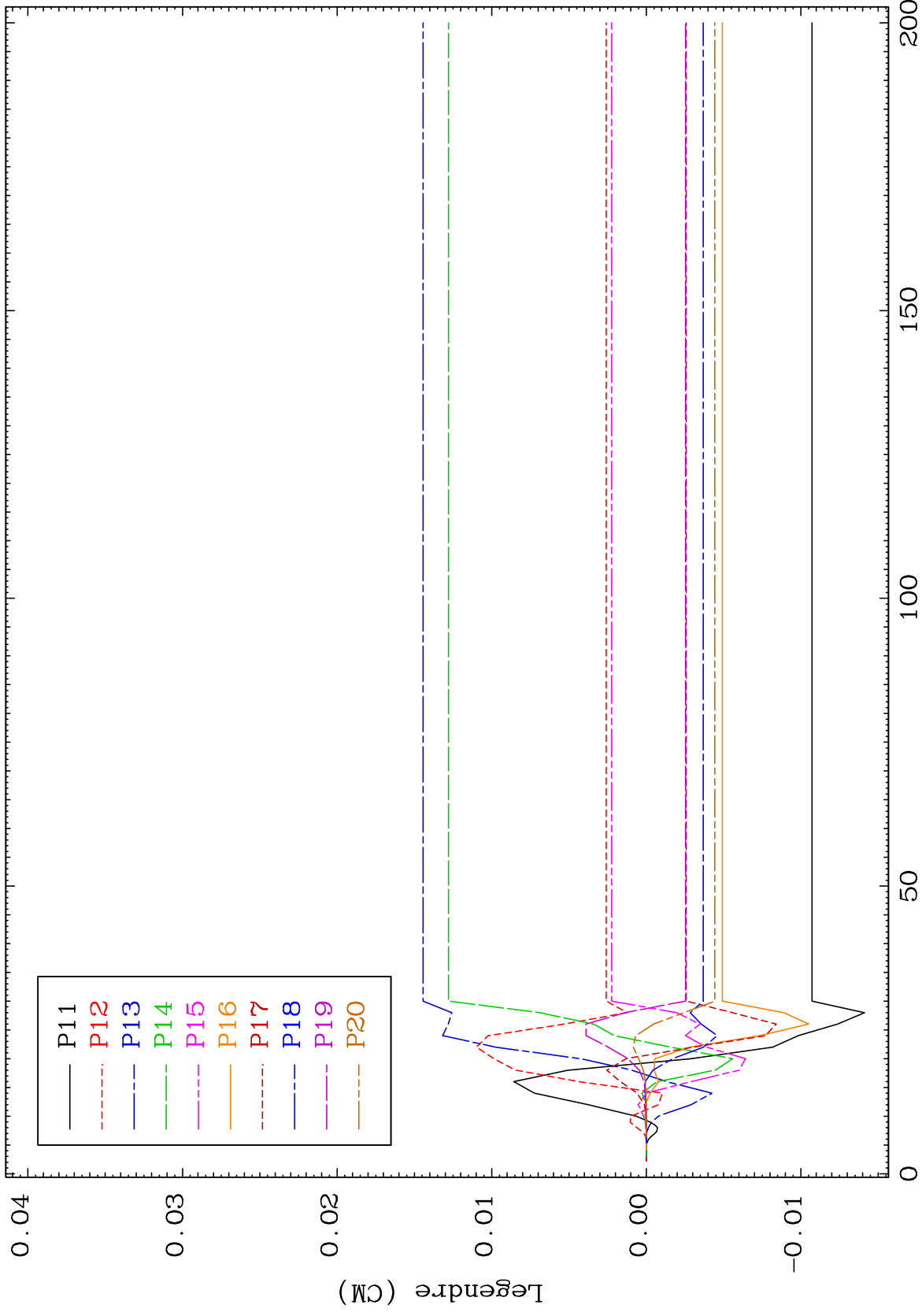
83-Bi-211



MAT 8331

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

83-Bi-211



57

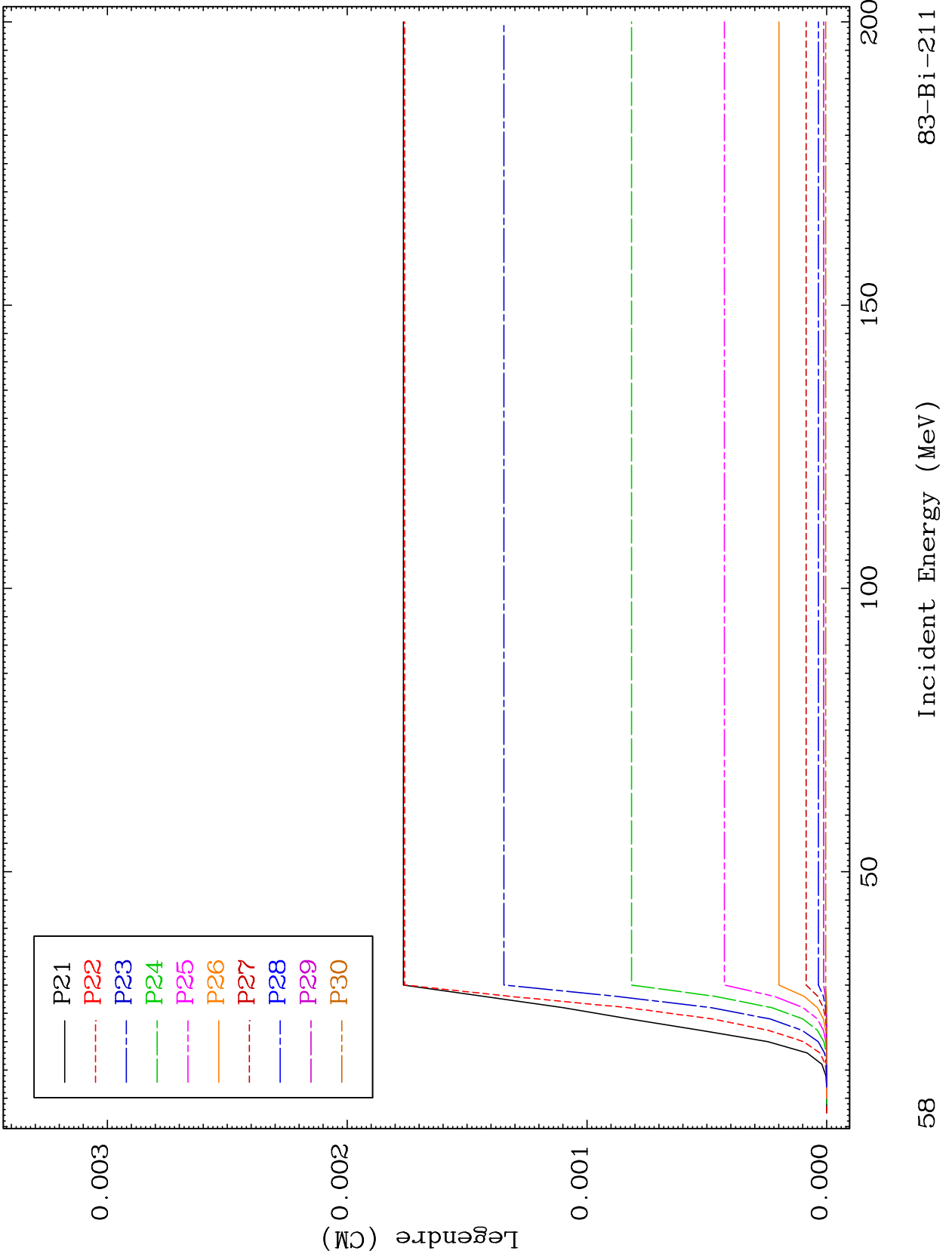
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



58

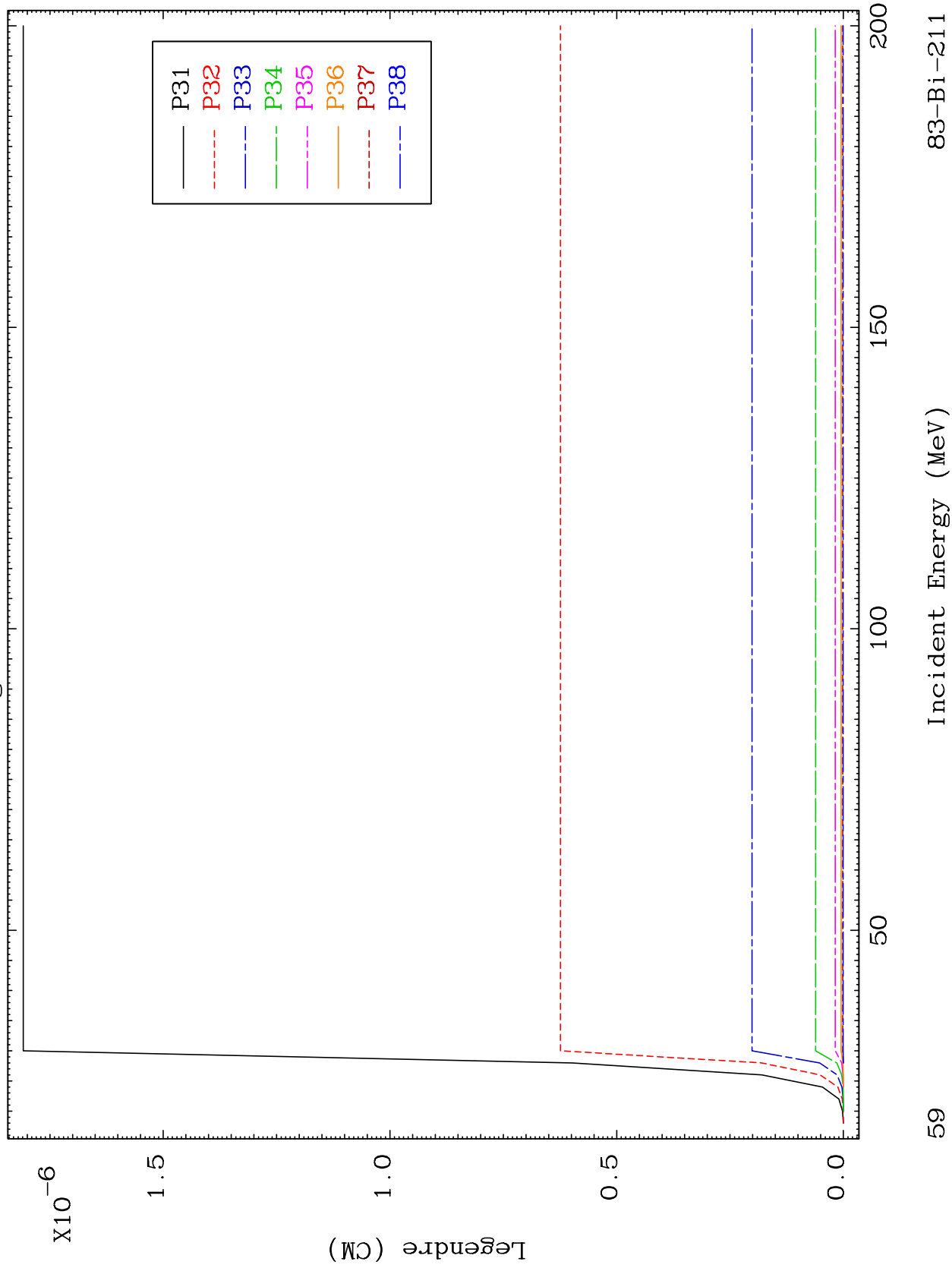
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



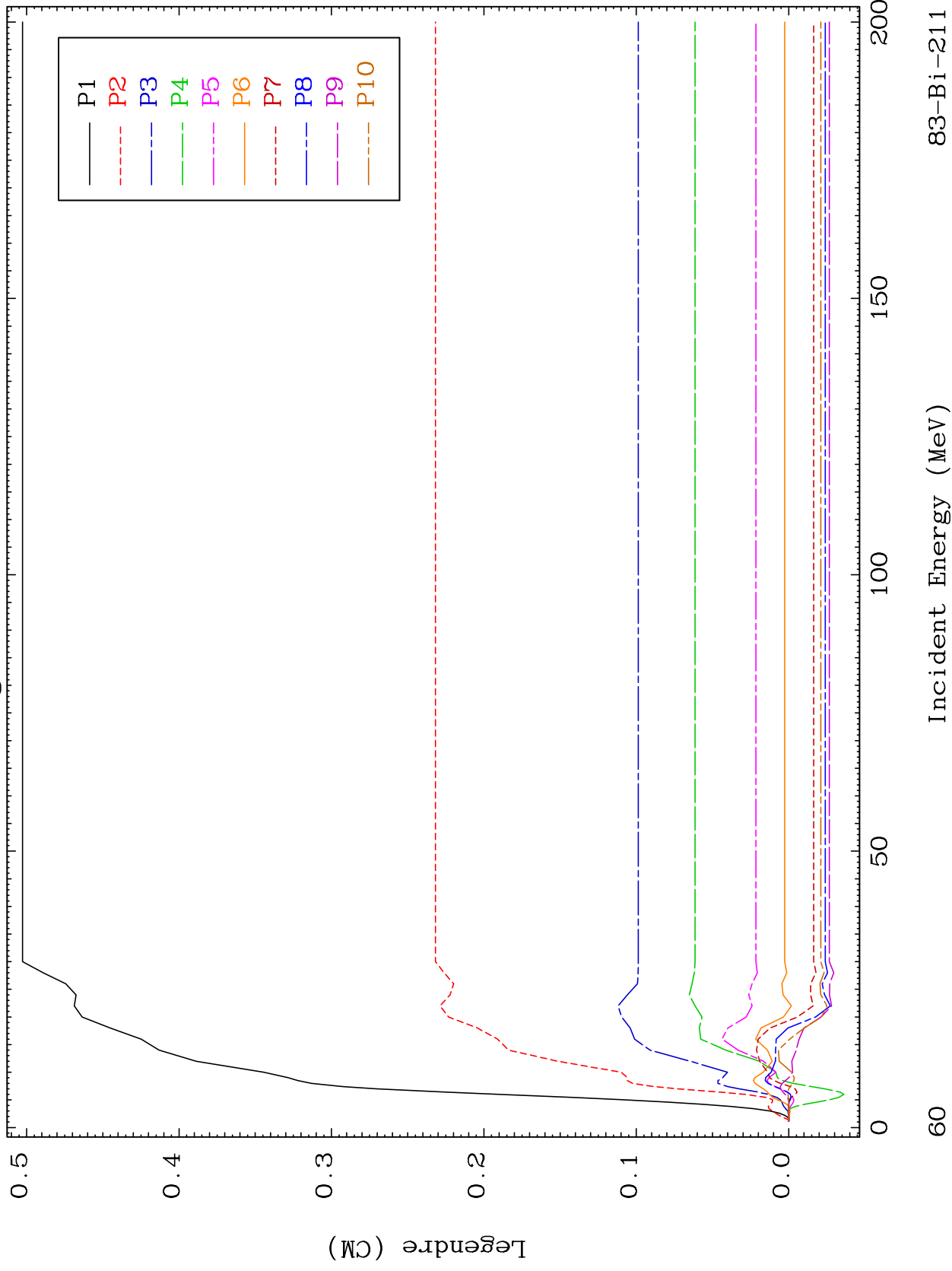
59

MAT 8331

MT= 61 (n,n') Level

83-Bi-211

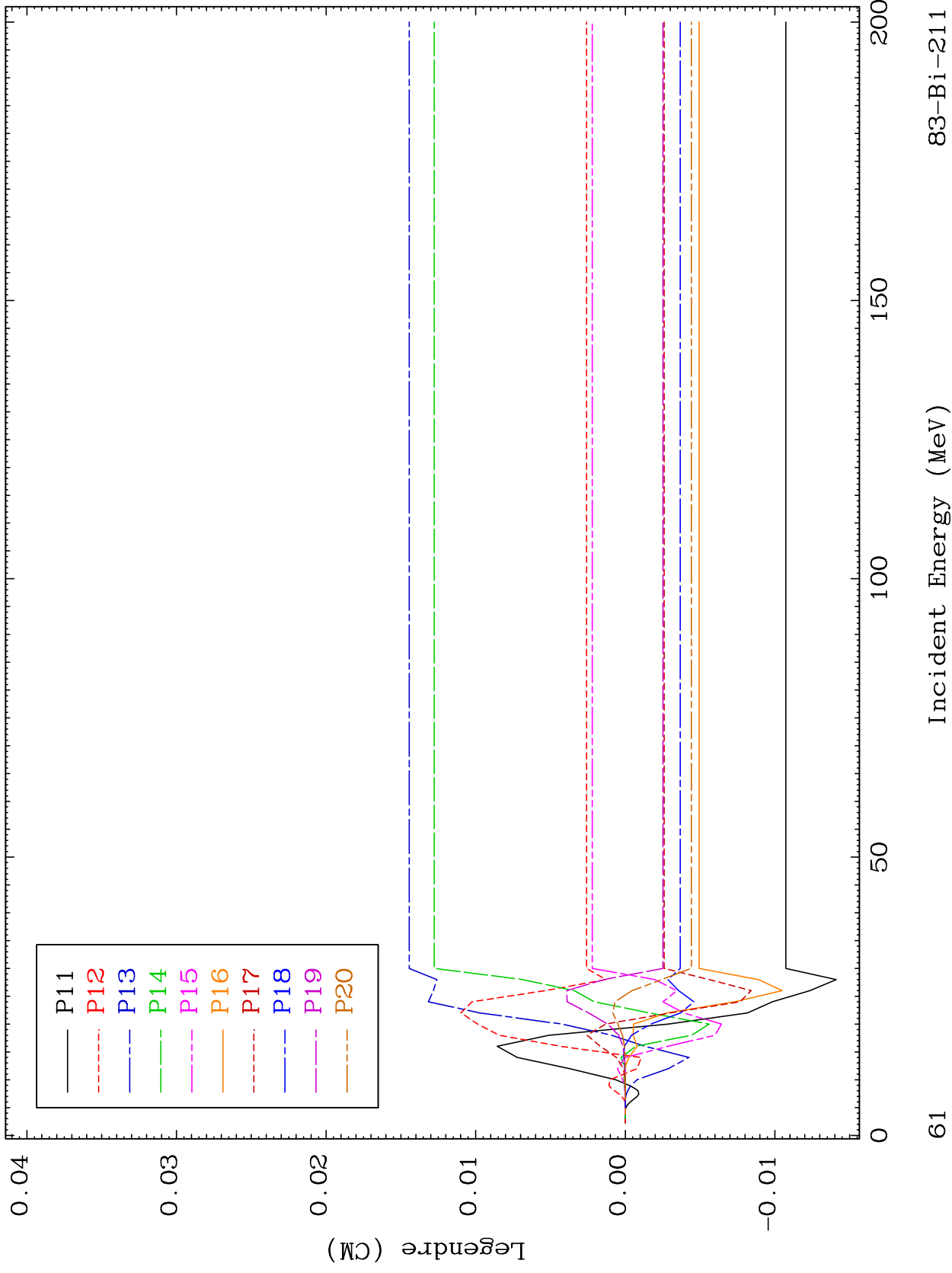
Legendre Coefficients



MAT 8331

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

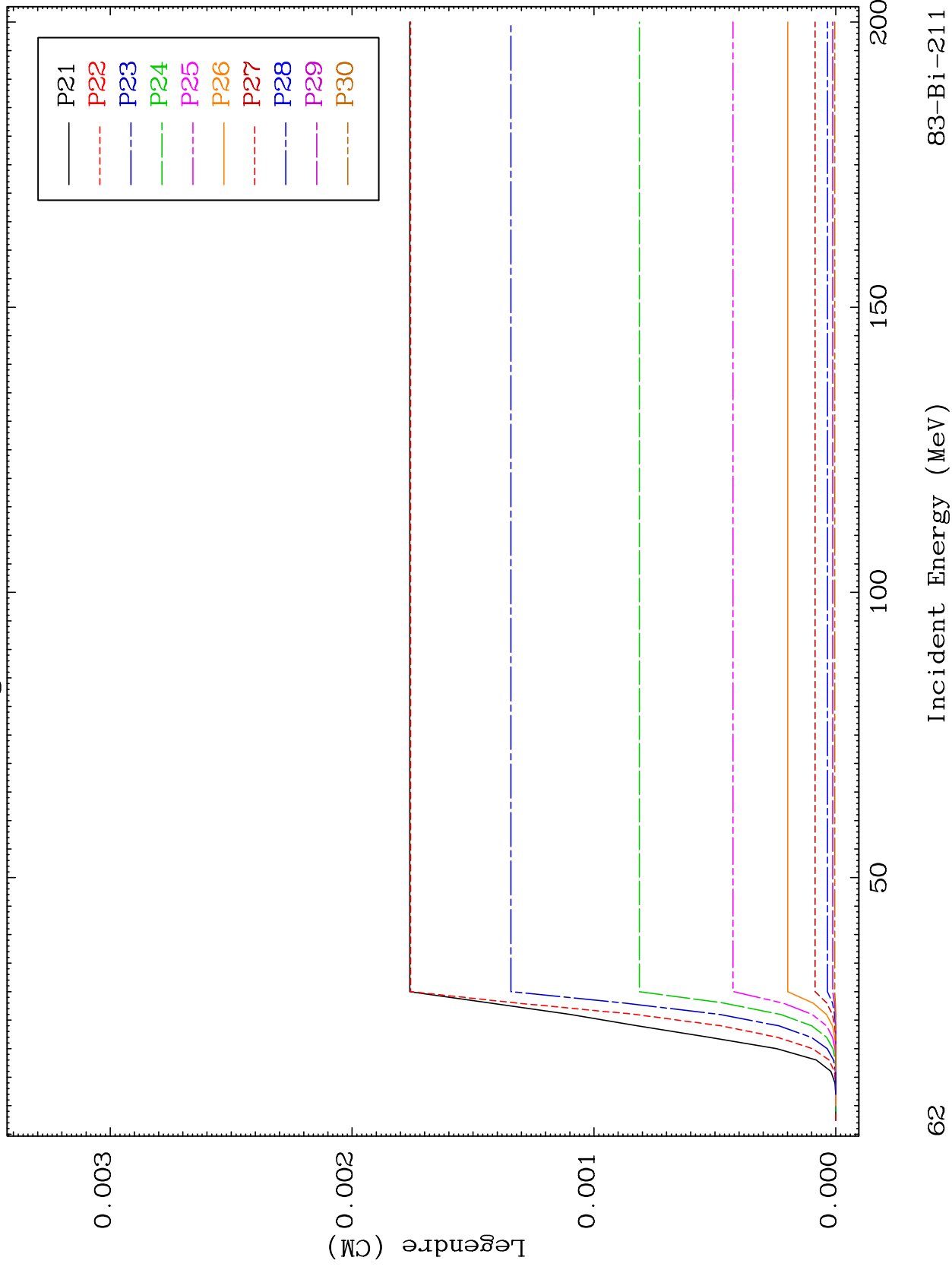
83-Bi-211



MAT 8331

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

83-Bi-211



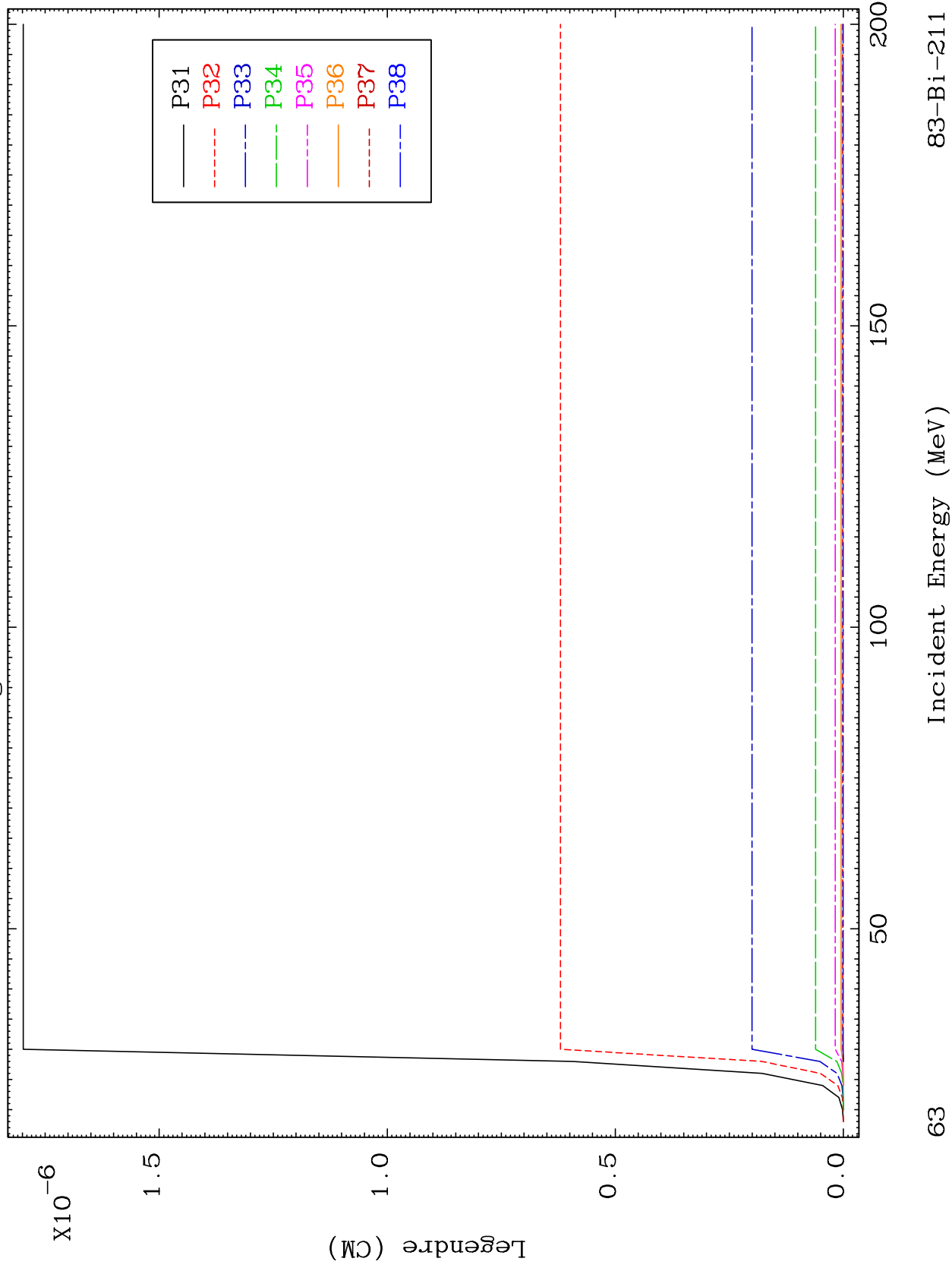
62

83-Bi-211

MAT 8331

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

83-Bi-211



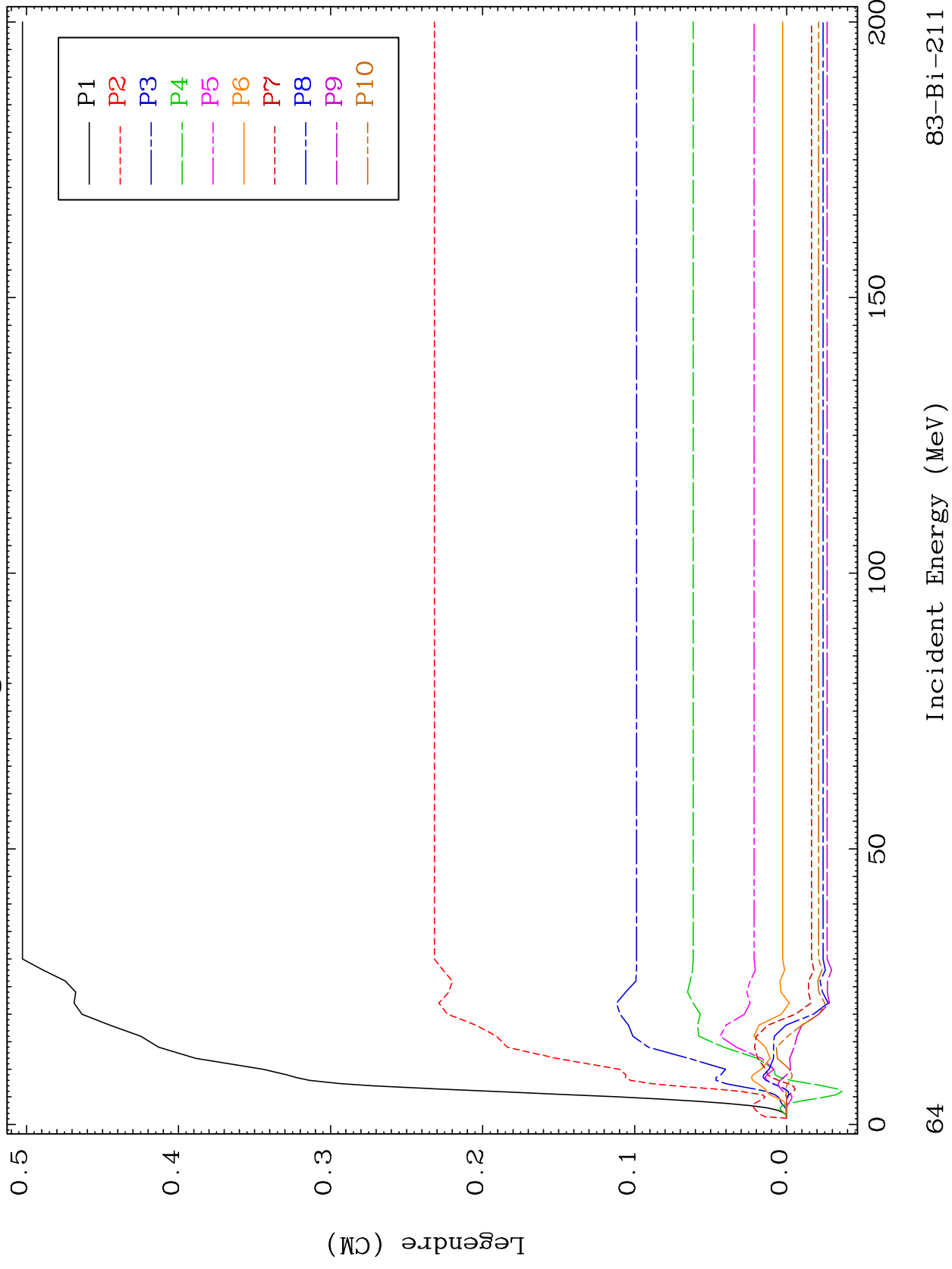
63



MAT 8331

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

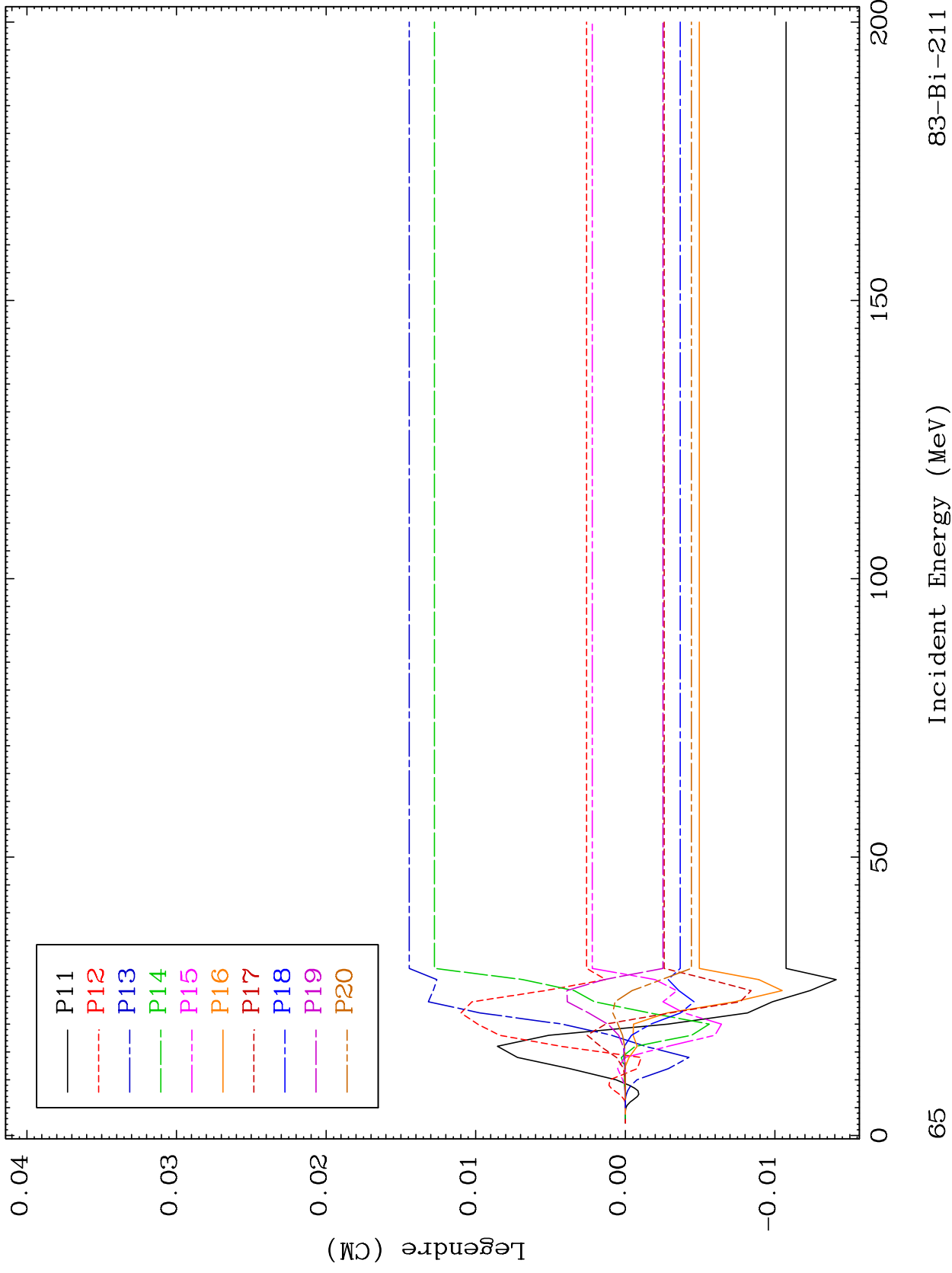
83-Bi-211



MAT 8331

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

83-Bi-211



65

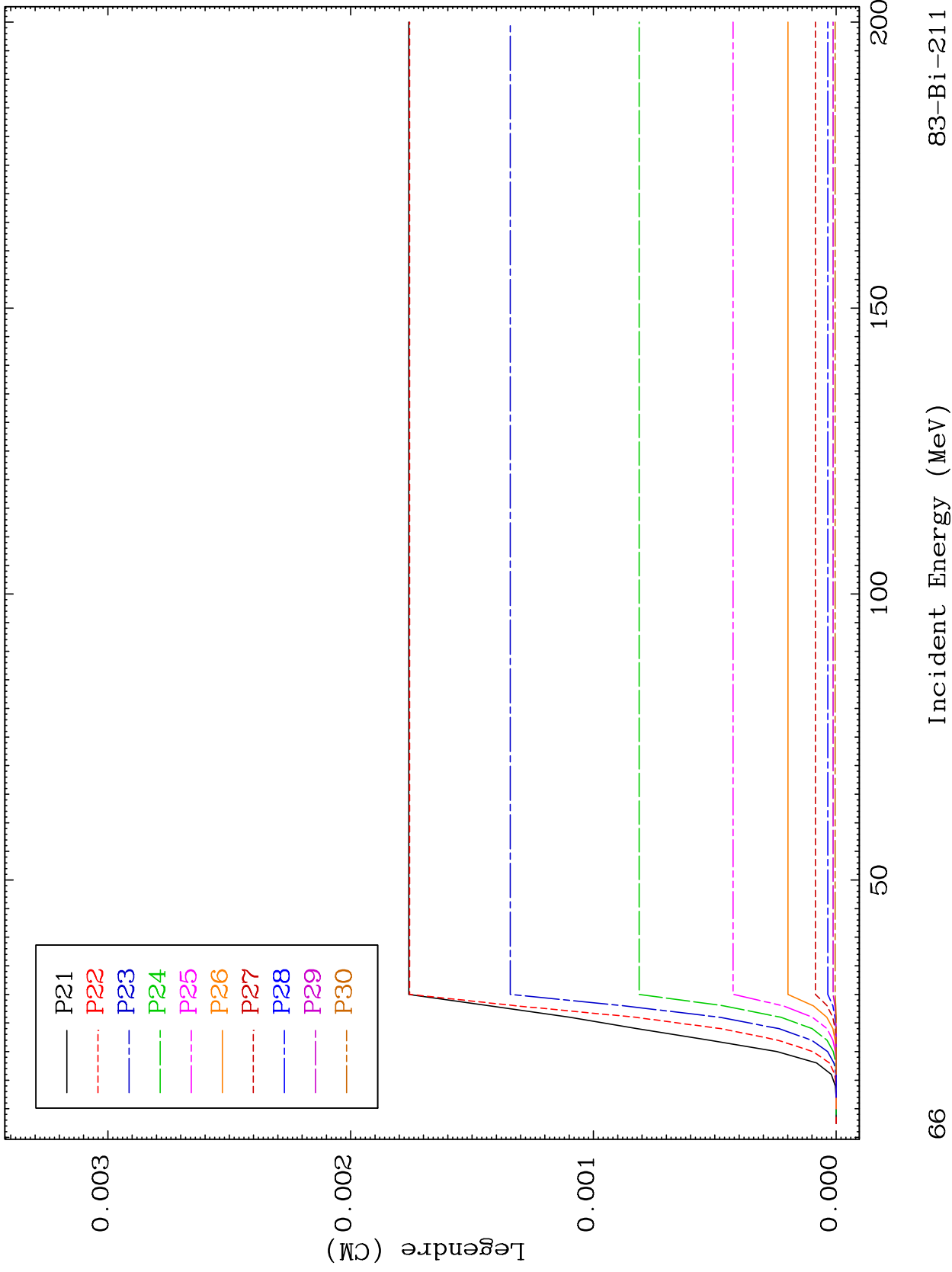
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211

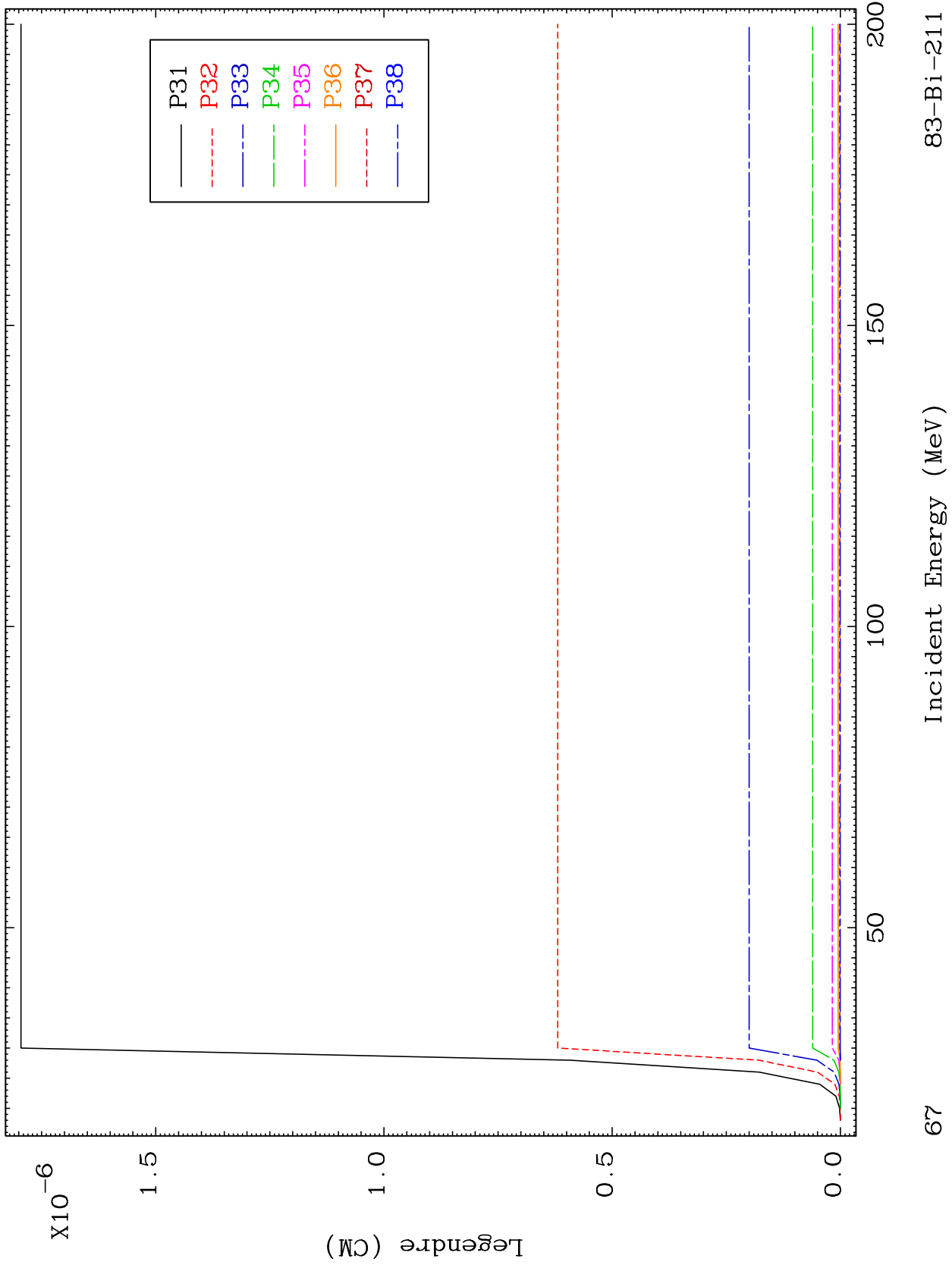


66

MAT 8331

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

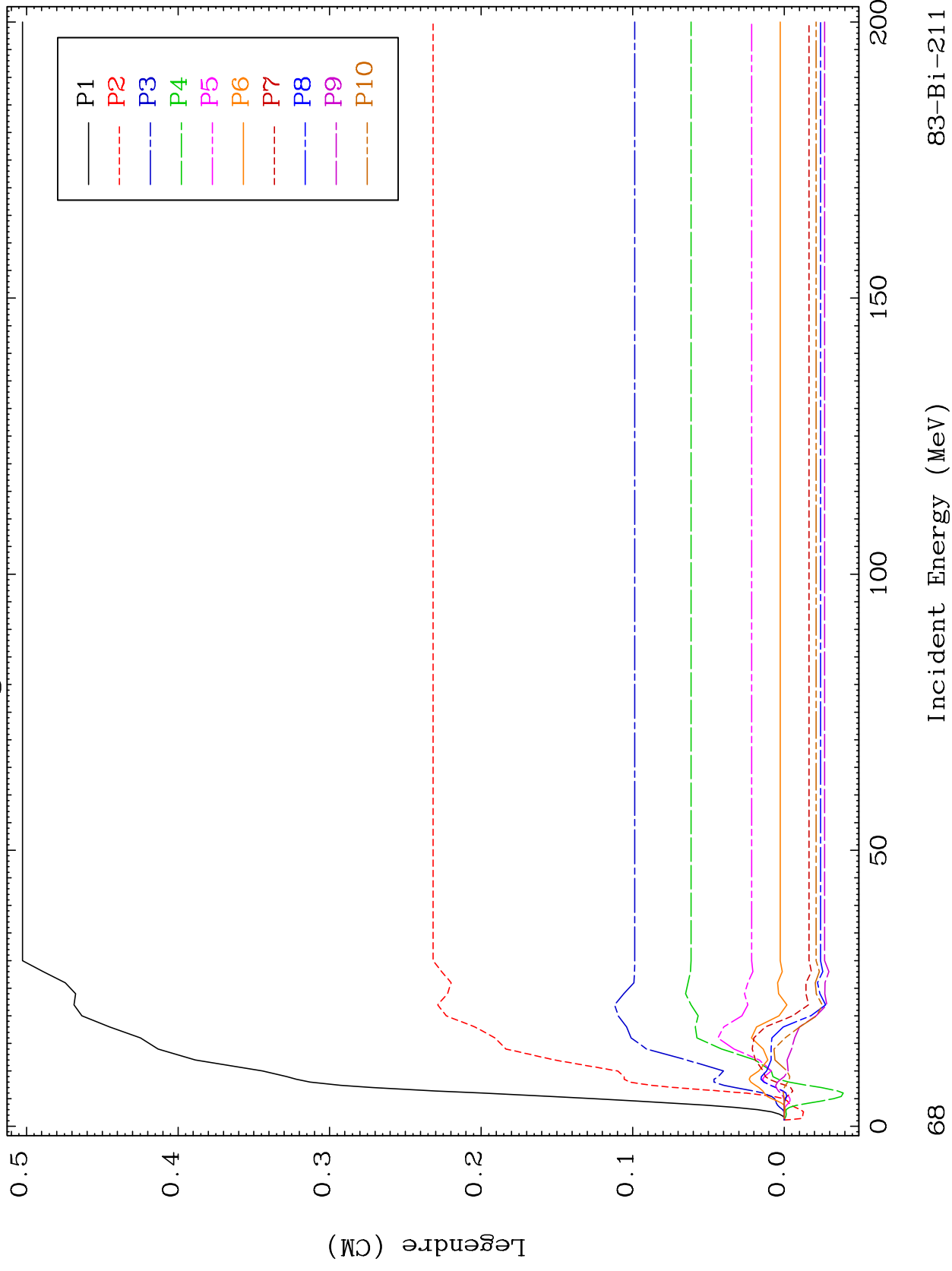
83-Bi-211



MAT 8331

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

83-Bi-211



83-Bi-211

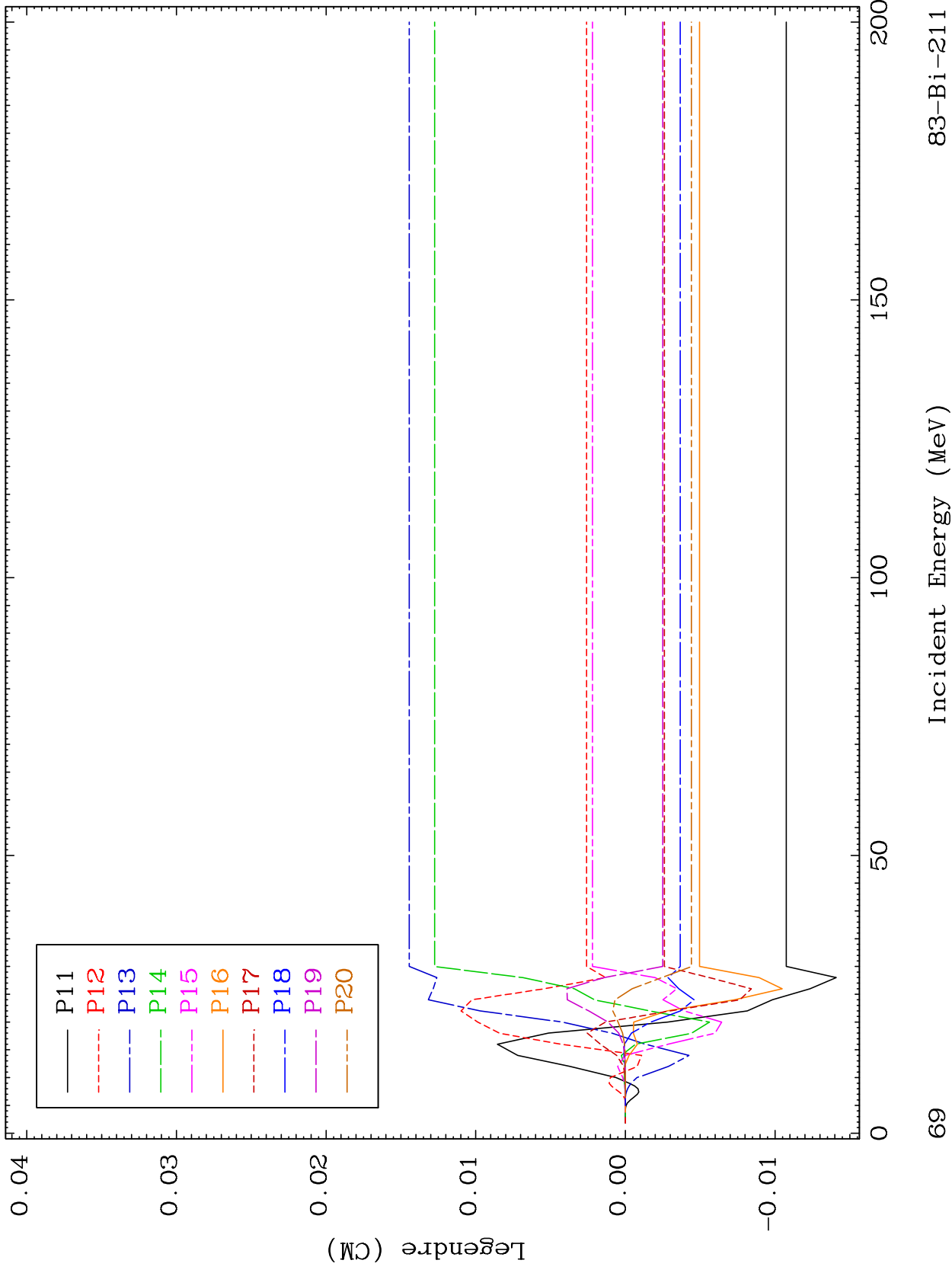
Incident Energy (MeV)

68

MAT 8331

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

83-Bi-211



69

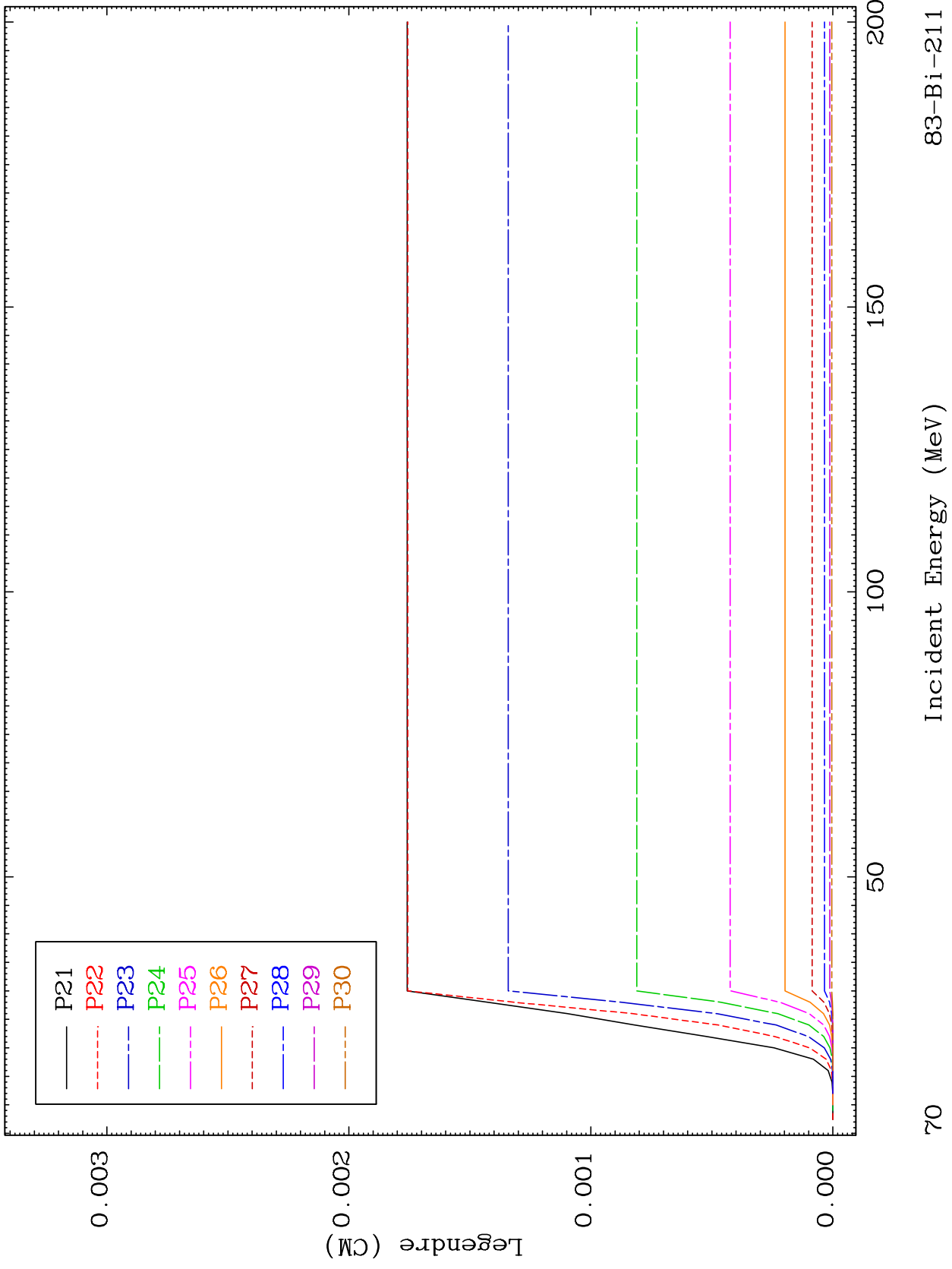
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



70

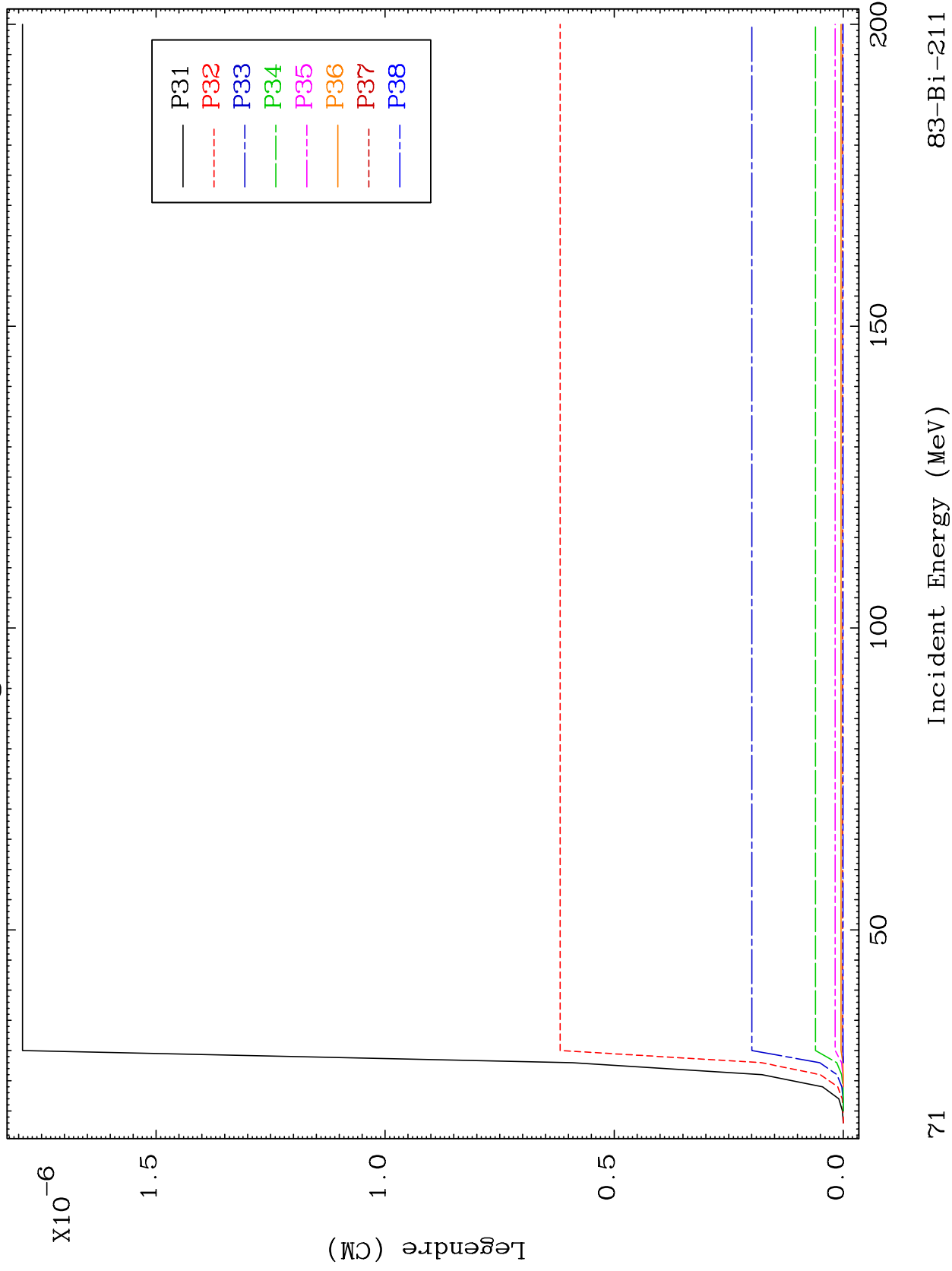
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



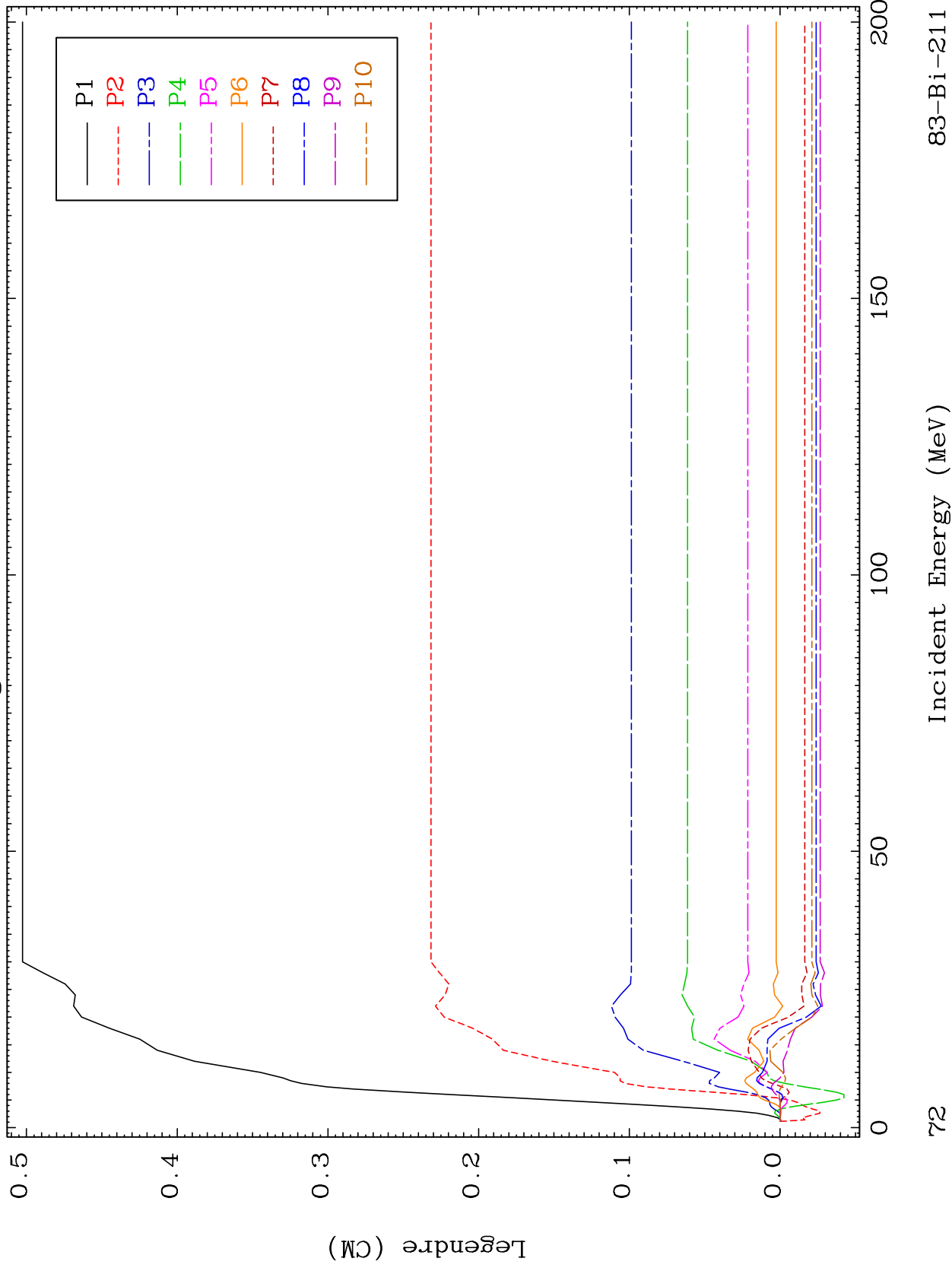


MAT 8331

MT= 64 (n,n') Level

83-Bi-211

Legendre Coefficients

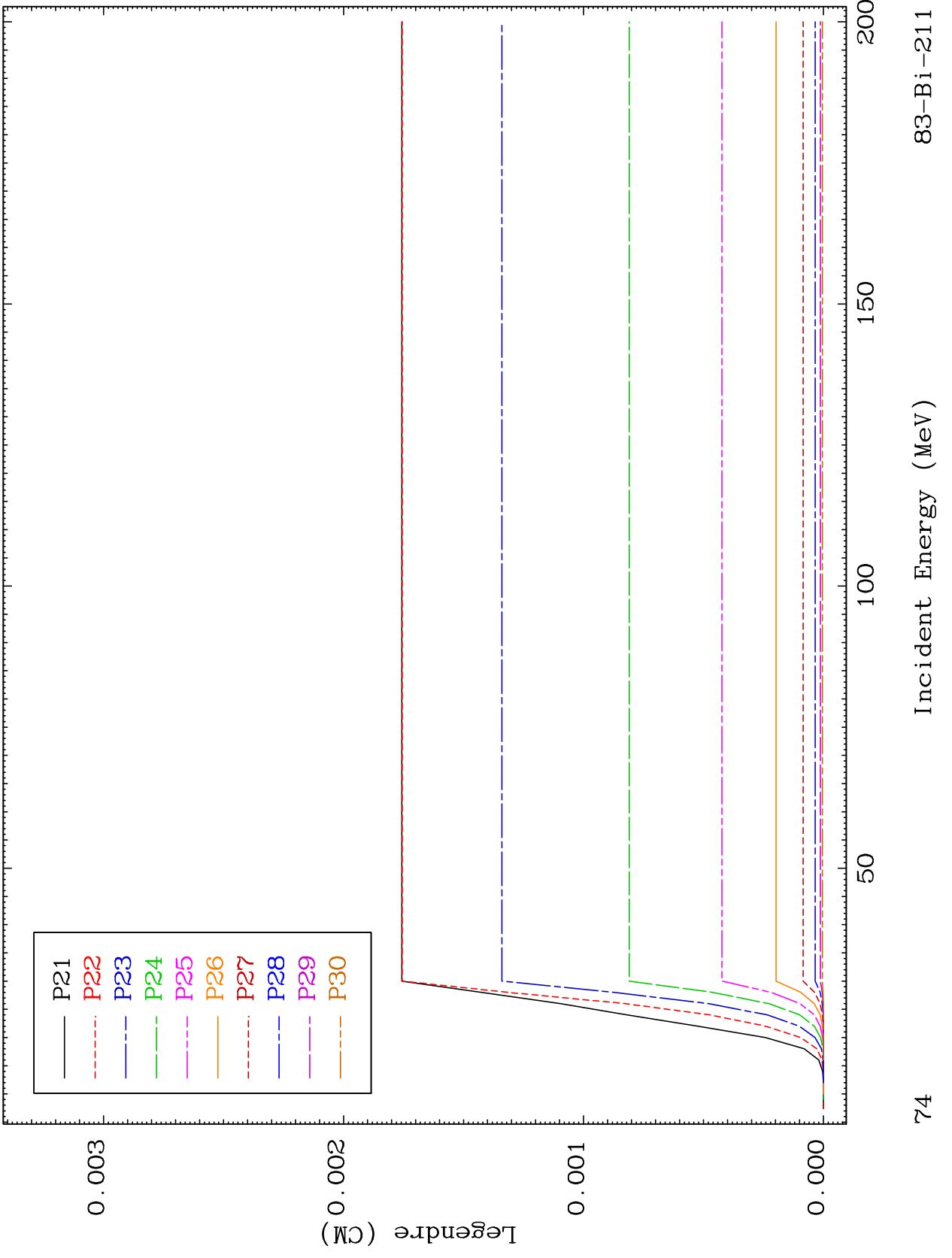




MAT 8331

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

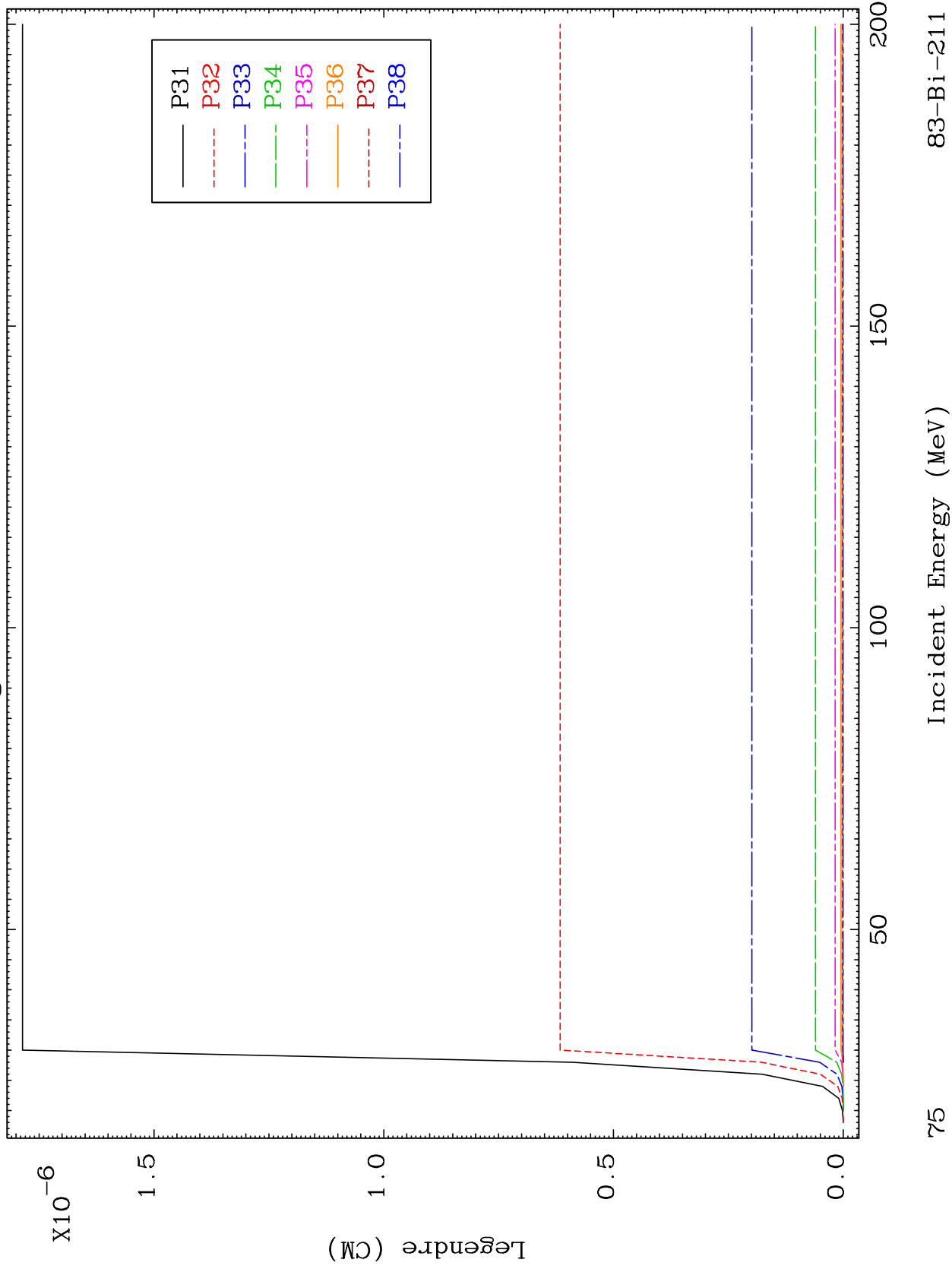
83-Bi-211



MAT 8331

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

83-Bi-211



75

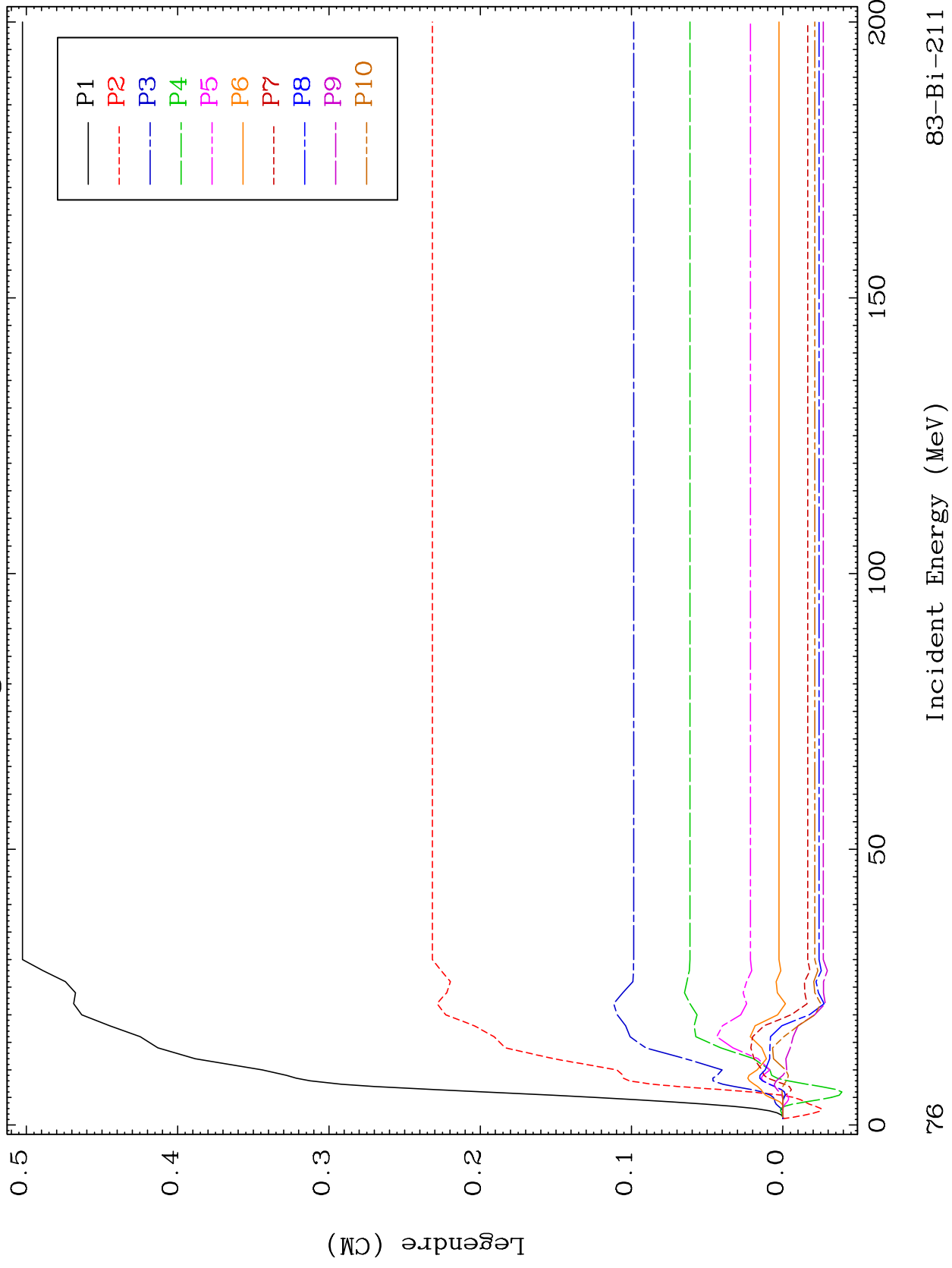
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



83-Bi-211

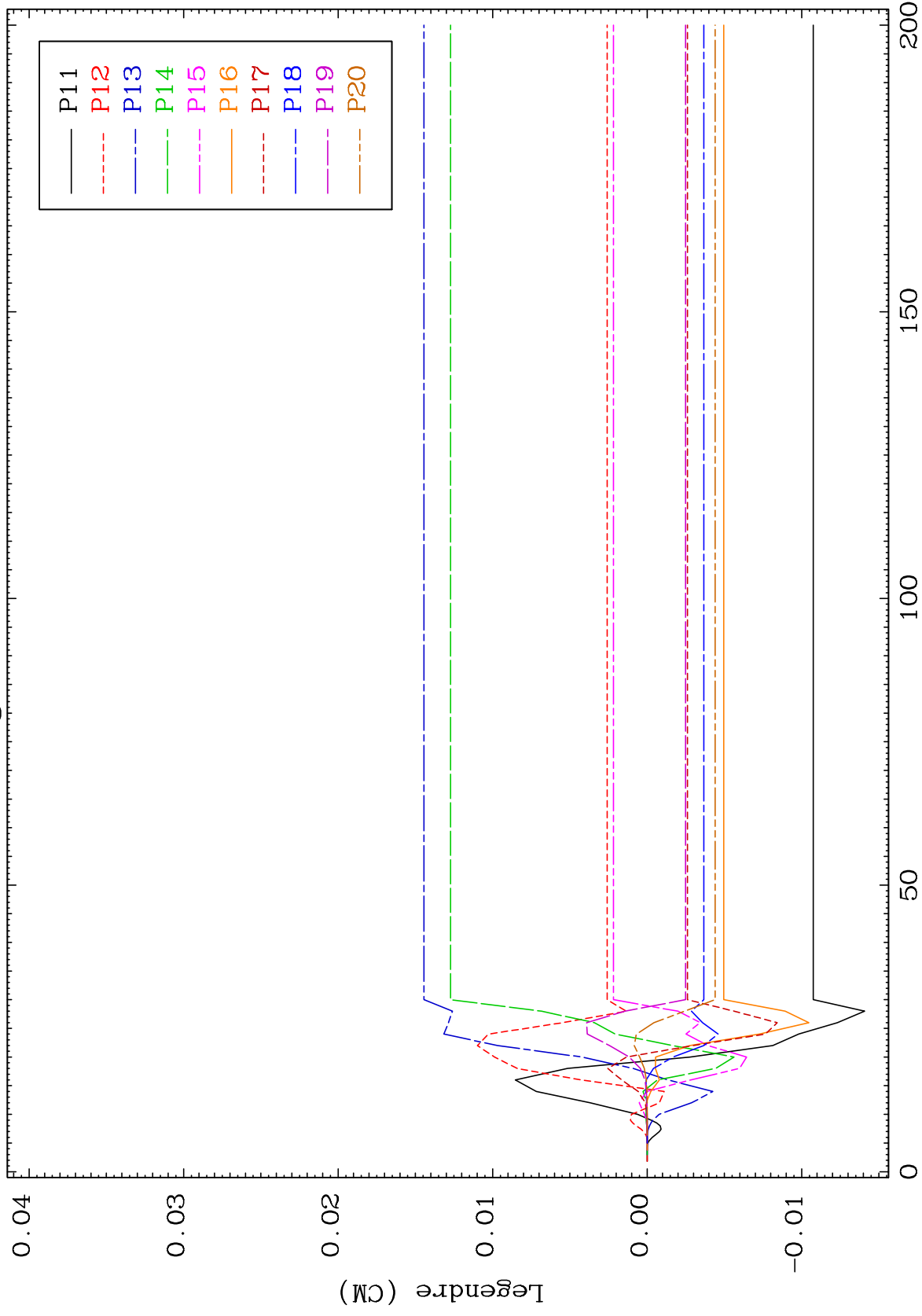
Incident Energy (MeV)

76

MAT 8331

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

83-Bi-211



77

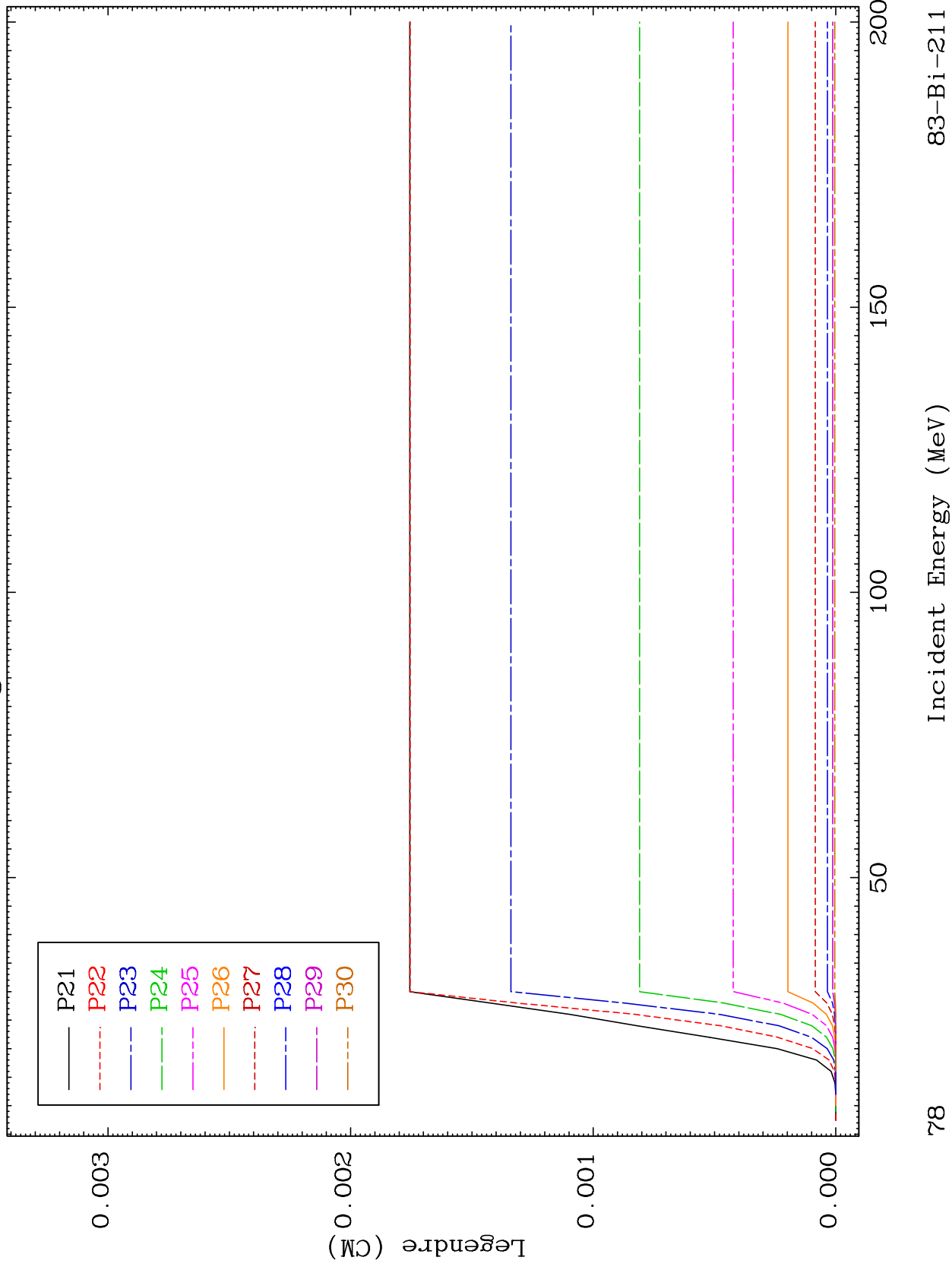
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



78

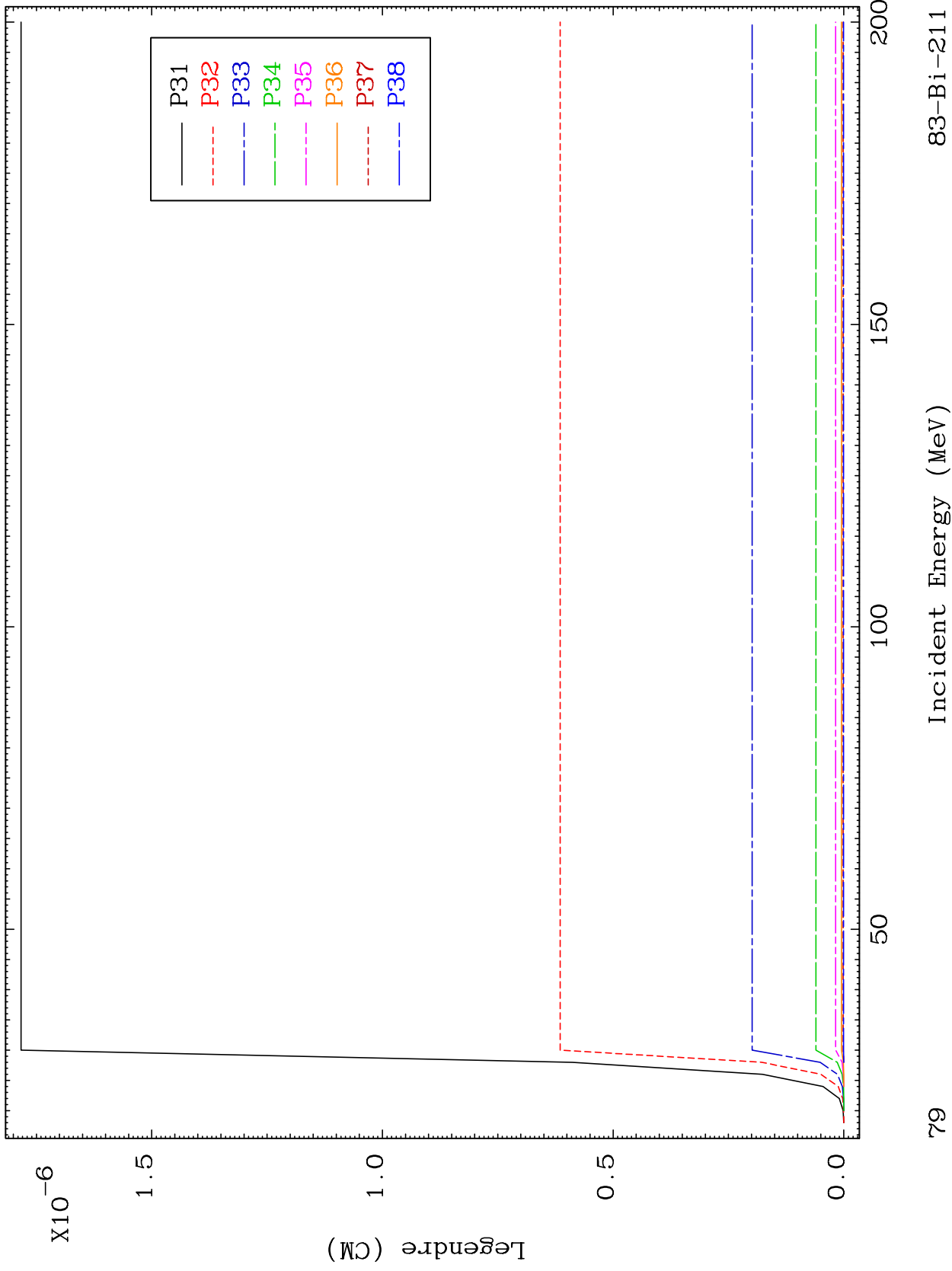
Incident Energy (MeV)

83-Bi-211

MAT 8331

83-Bi-211

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

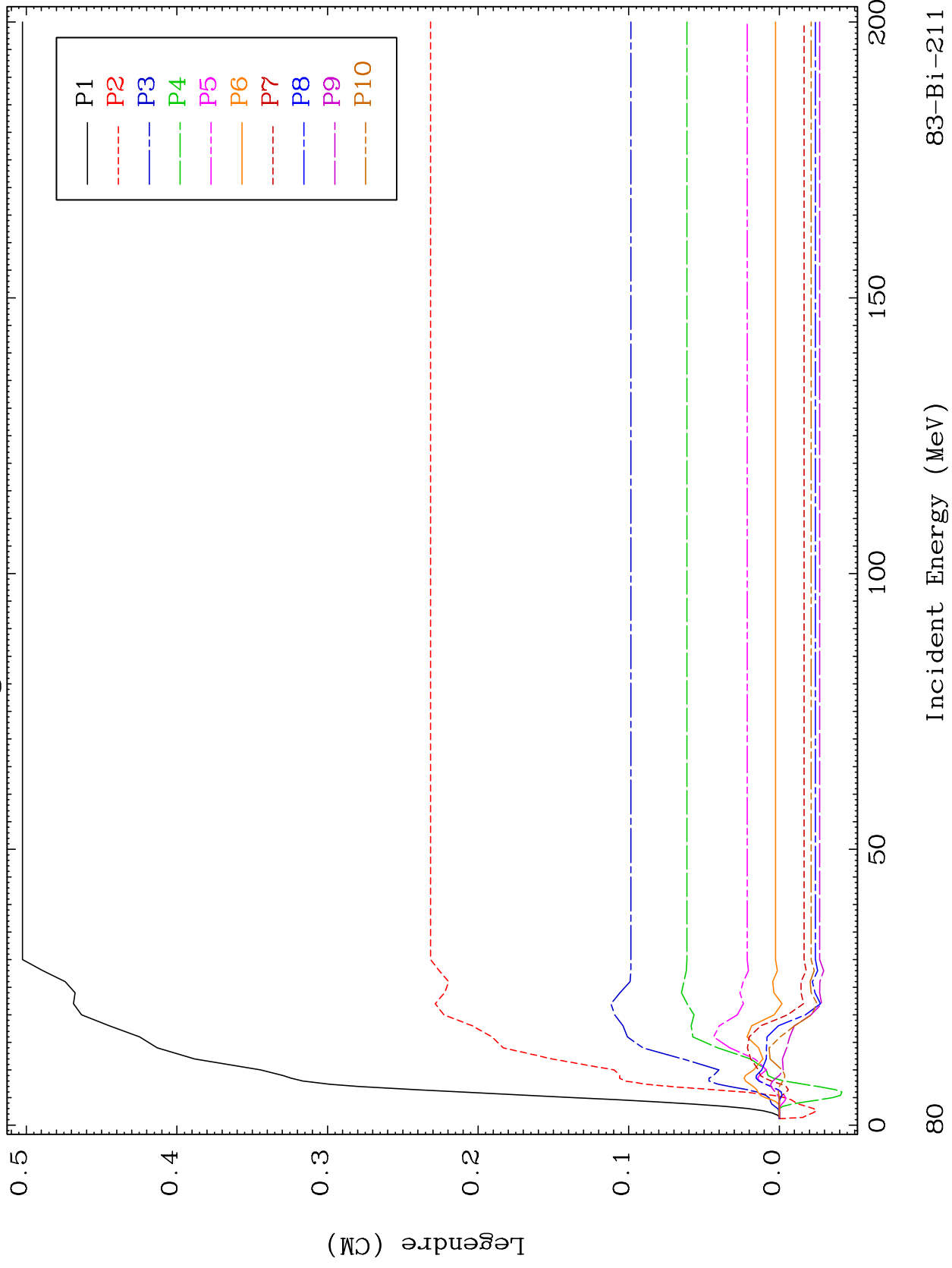




MAT 8331

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

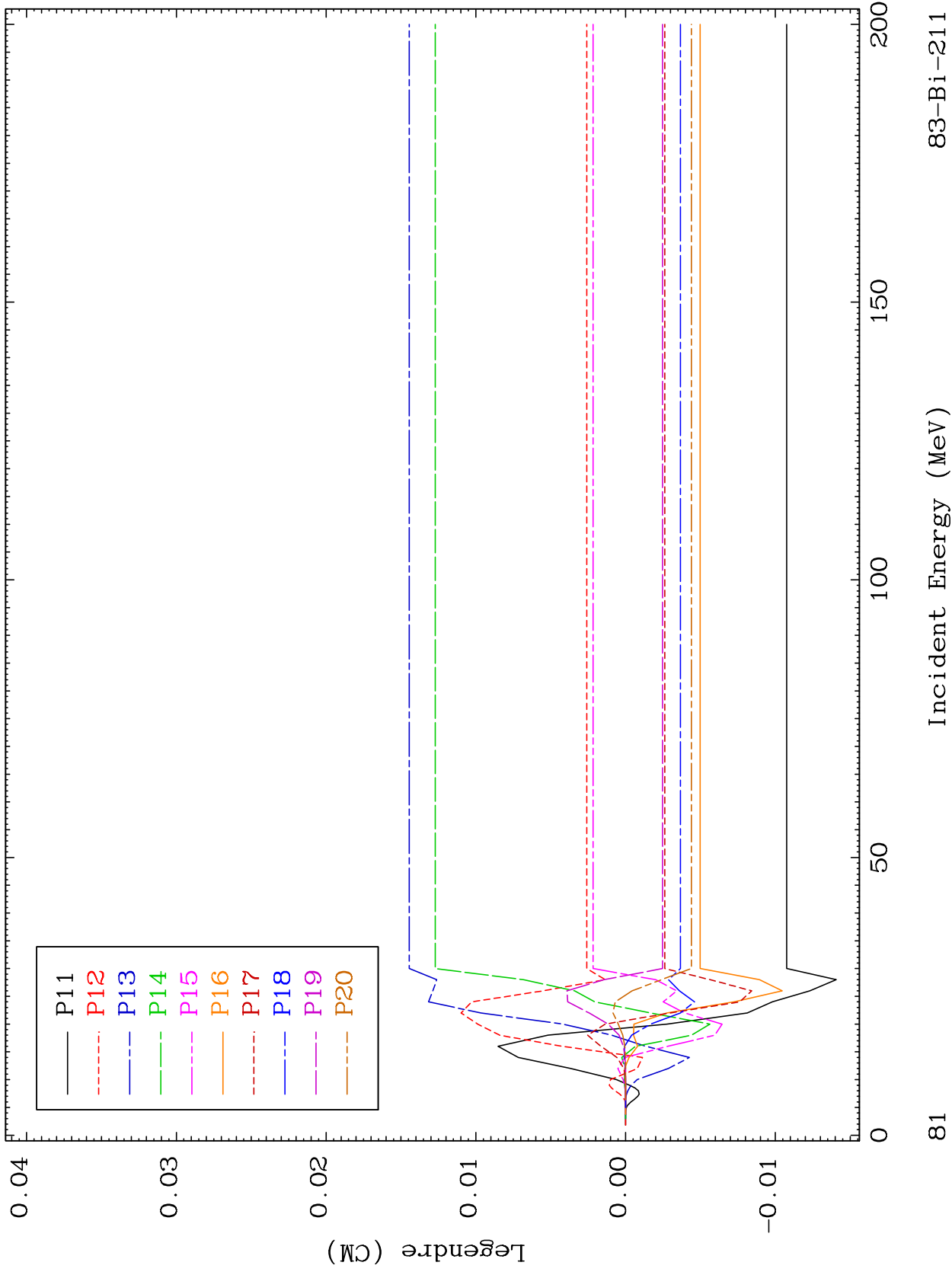
83-Bi-211



MAT 8331

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

83-Bi-211



81

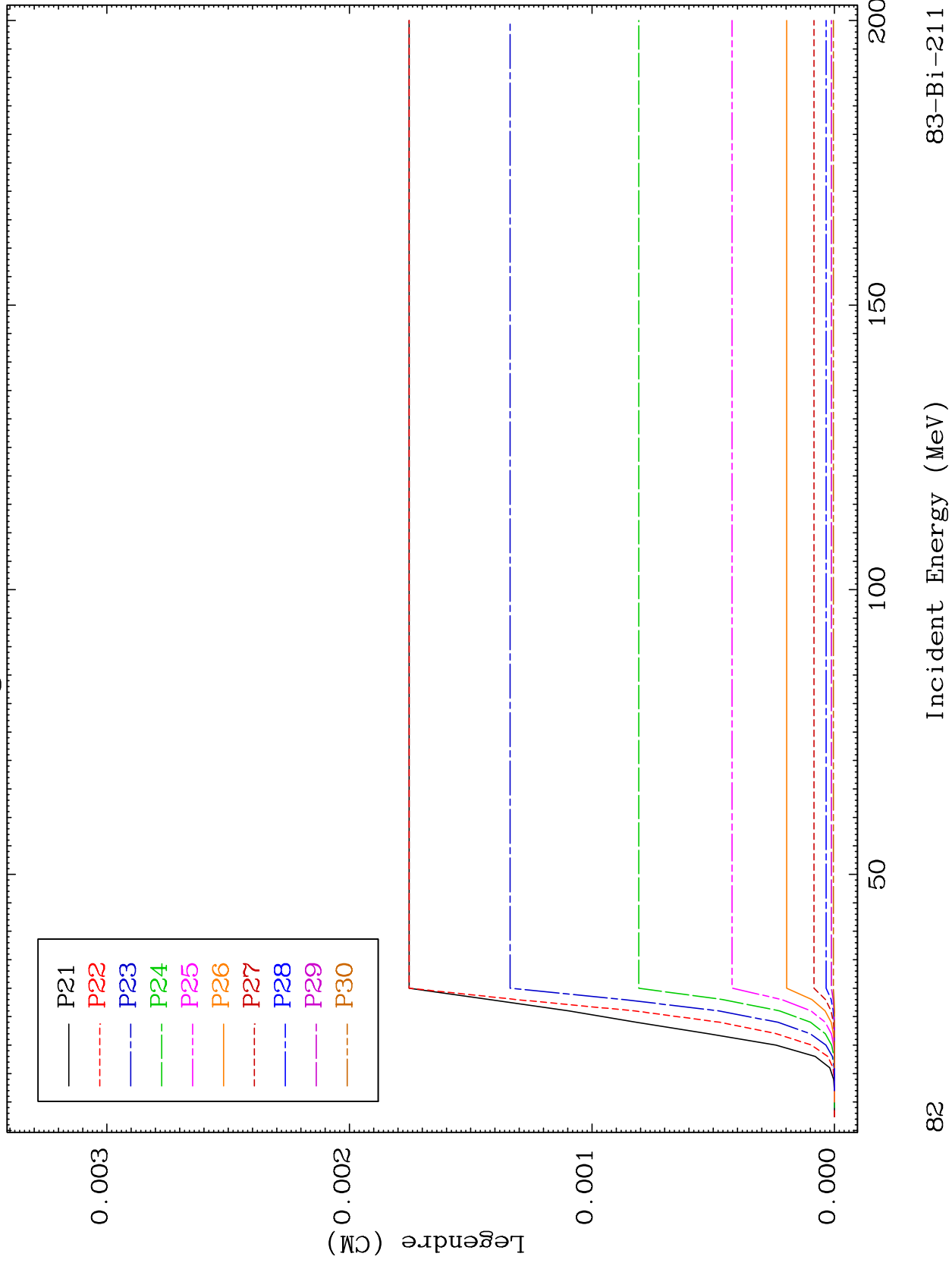
Incident Energy (MeV)

83-Bi-211

MAT 8331

83-Bi-211

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



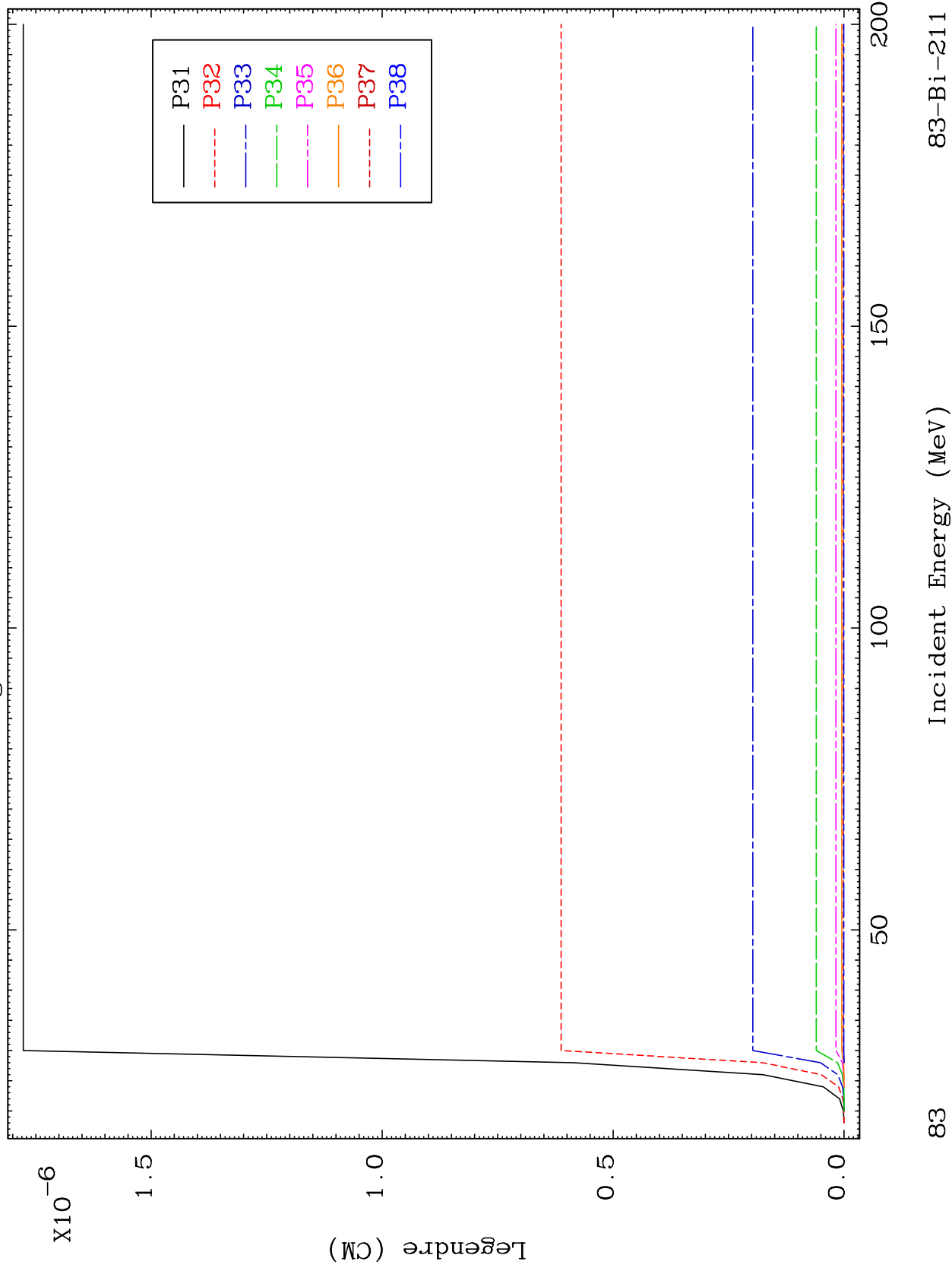
82

83-Bi-211

MAT 8331

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

83-Bi-211



83

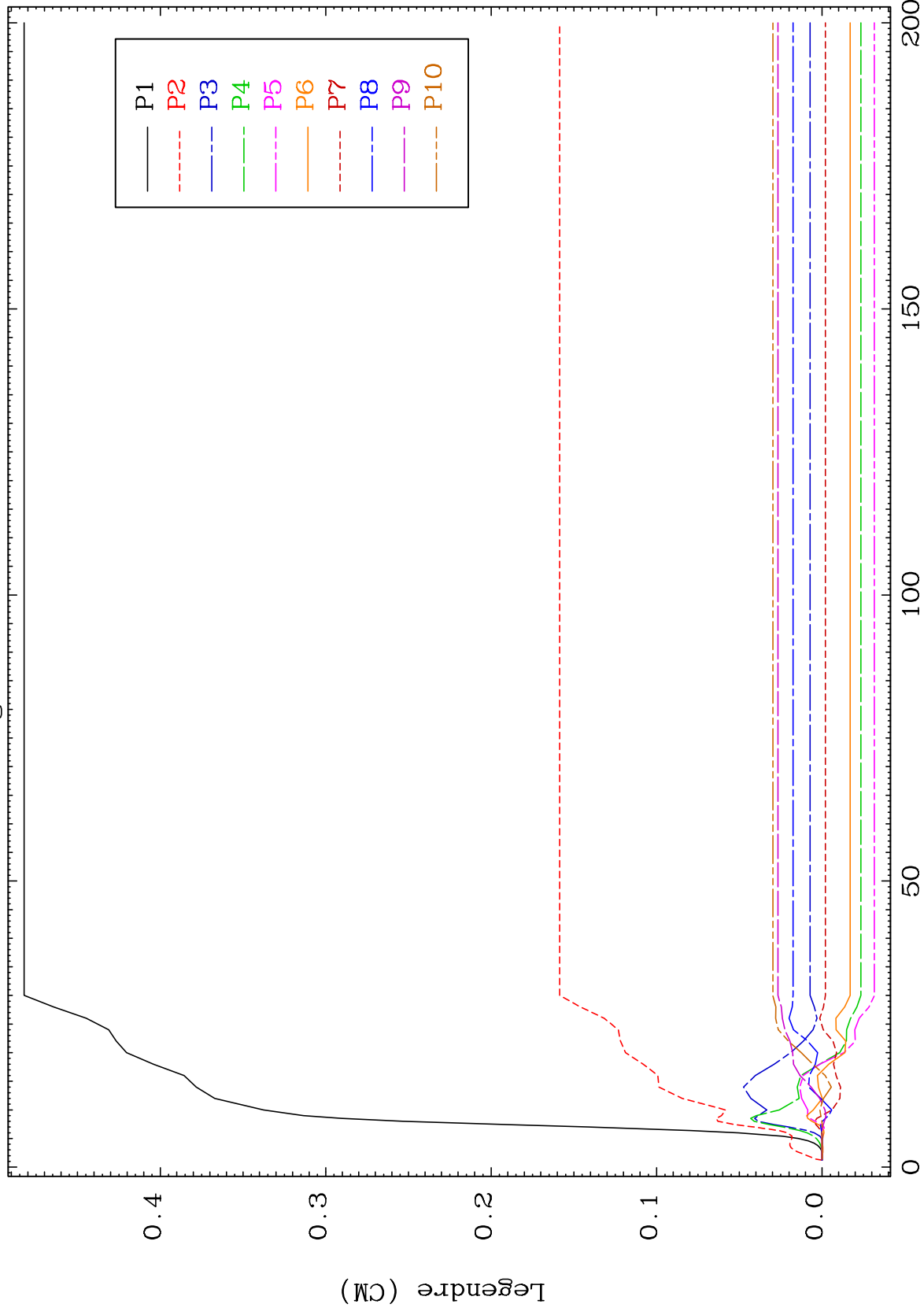
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



84

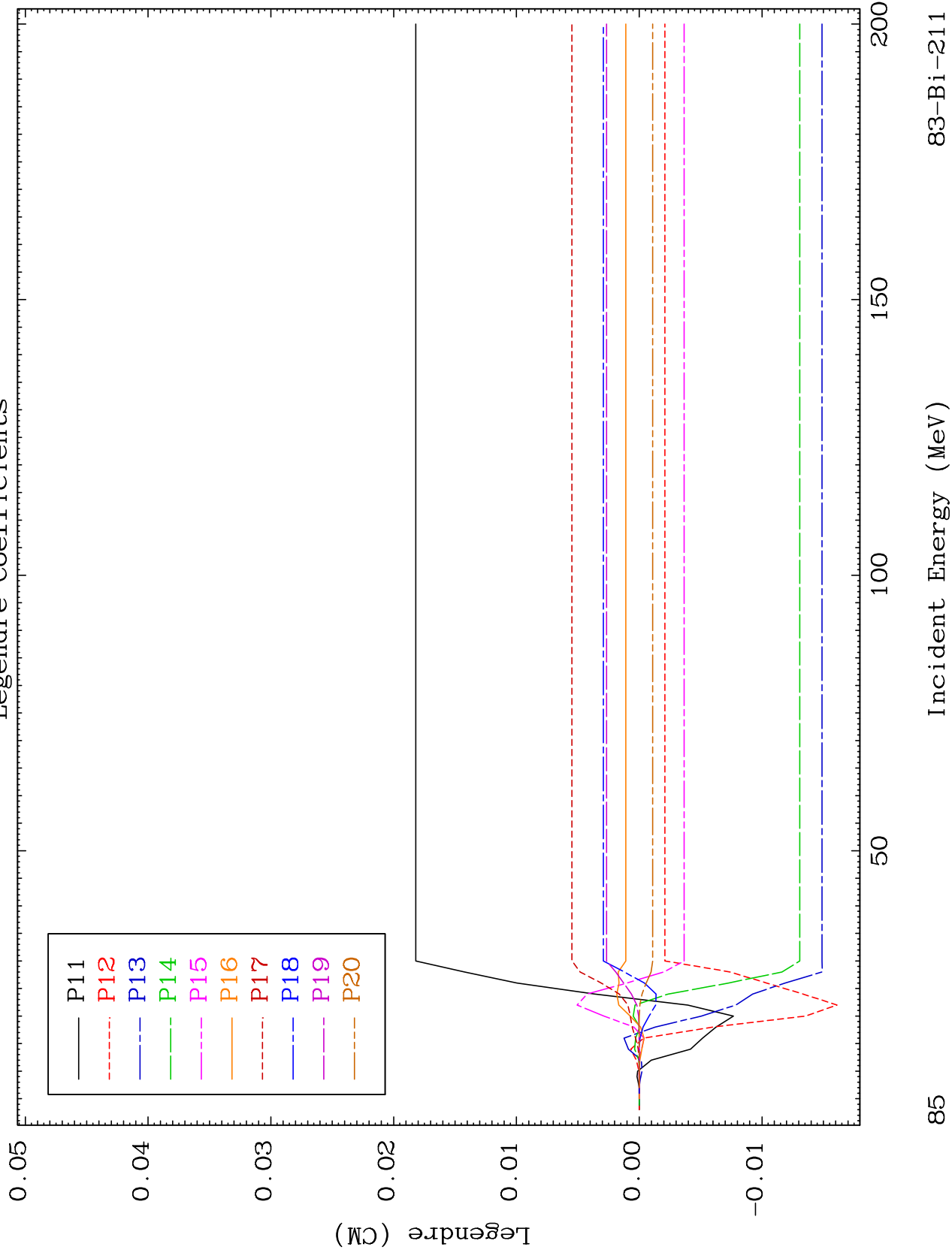
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

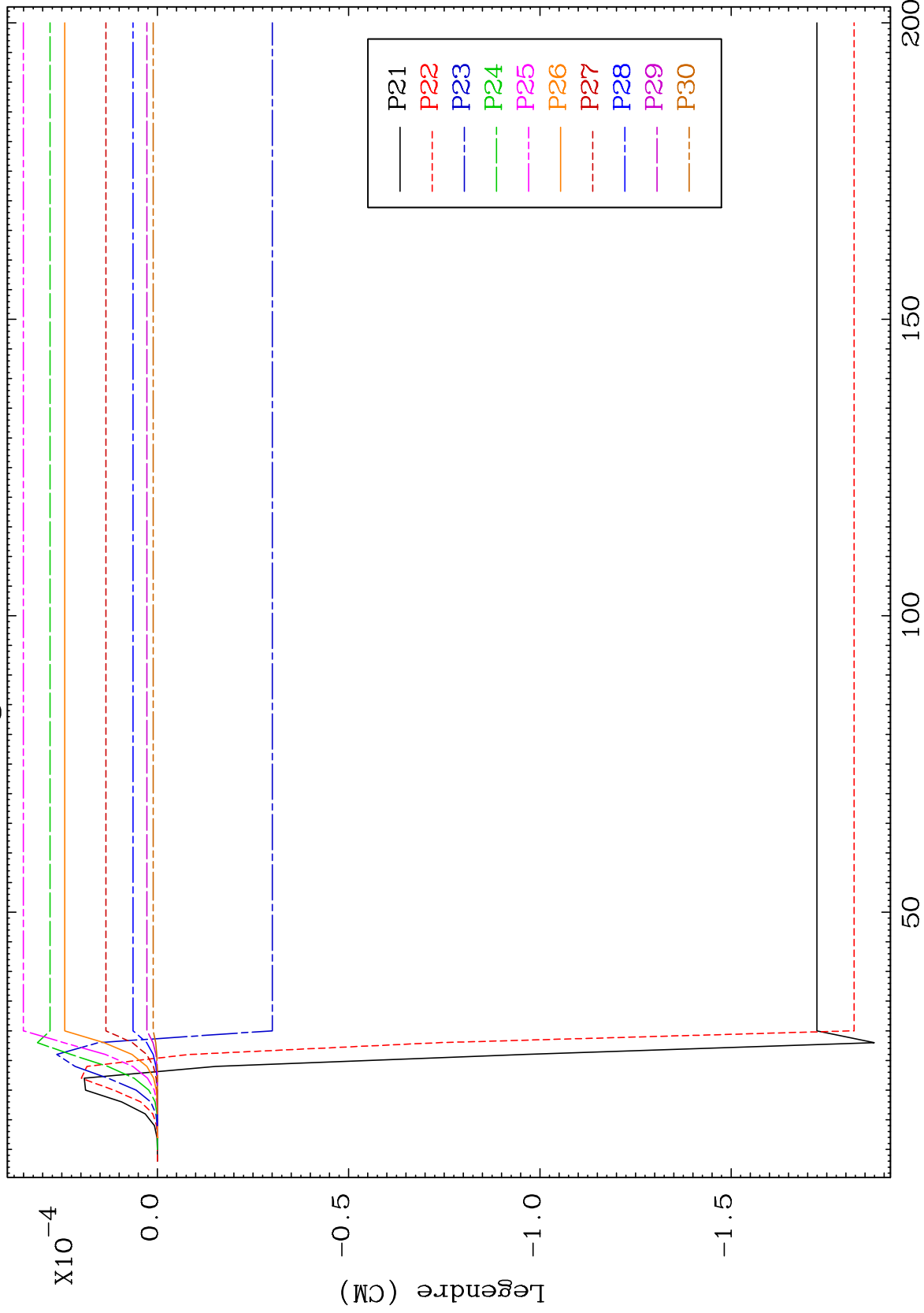
83-Bi-211



85

Incident Energy (MeV)

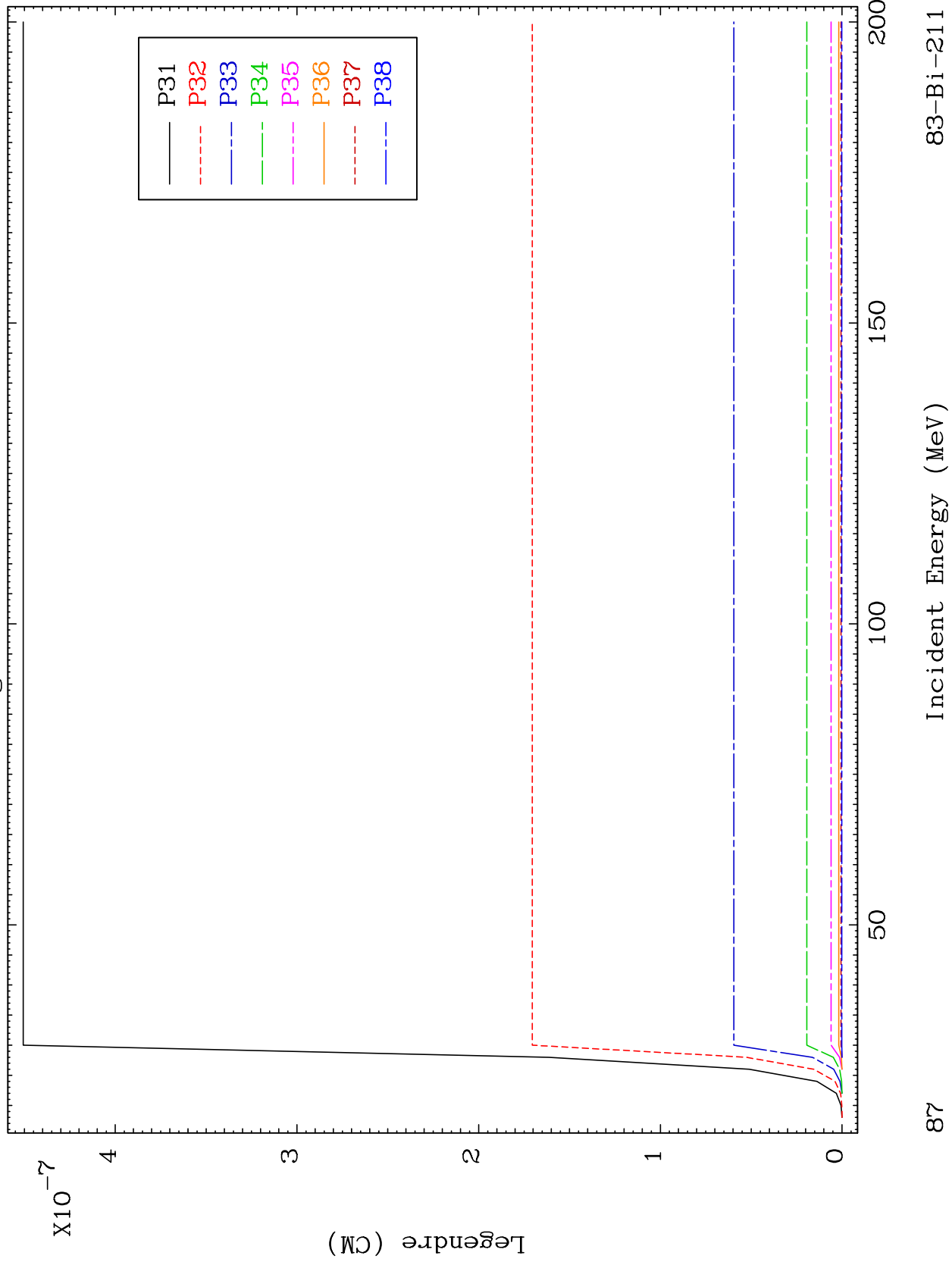
83-Bi-211



MAT 8331

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

83-Bi-211

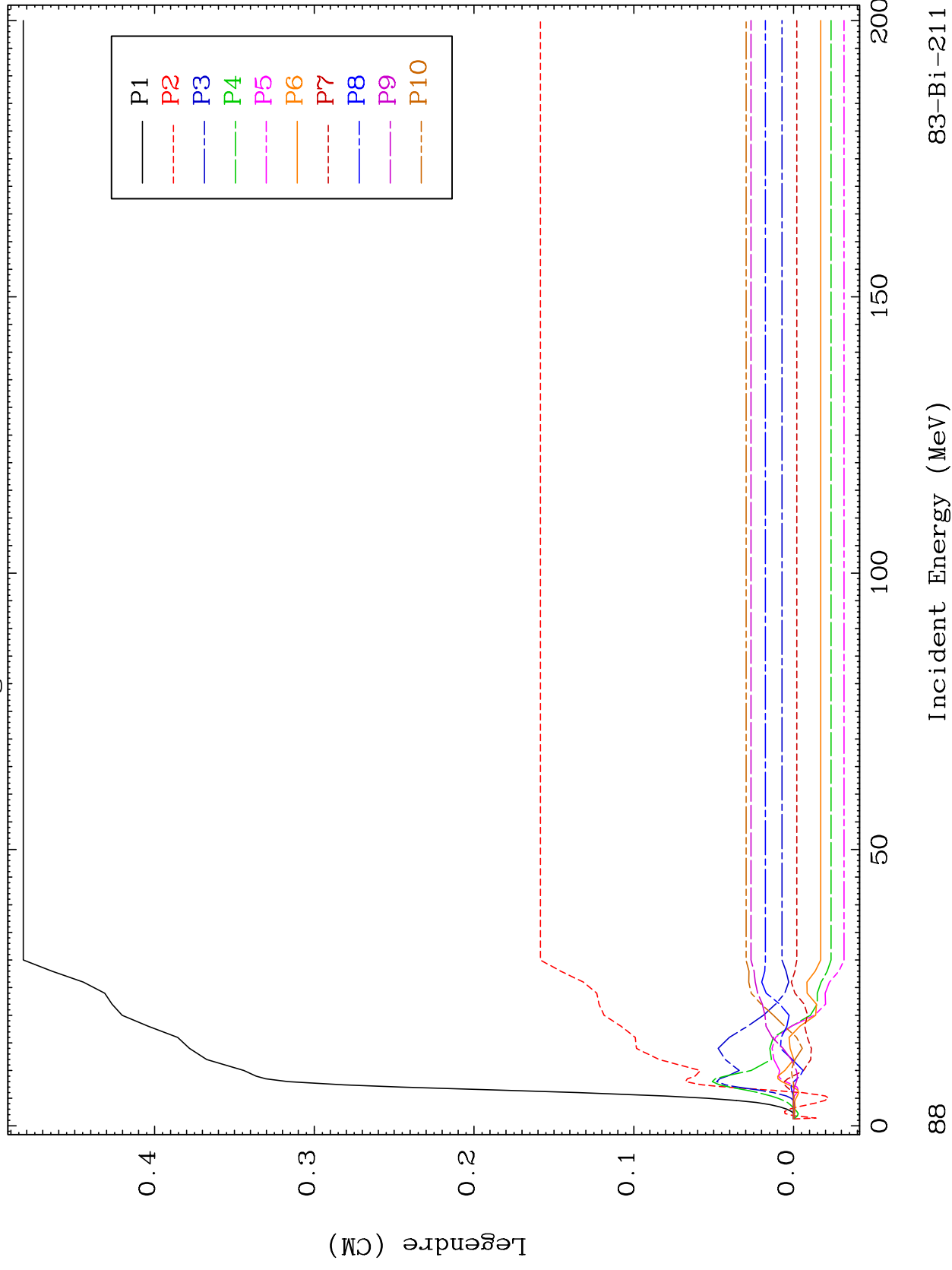




MAT 8331

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

83-Bi-211



83-Bi-211

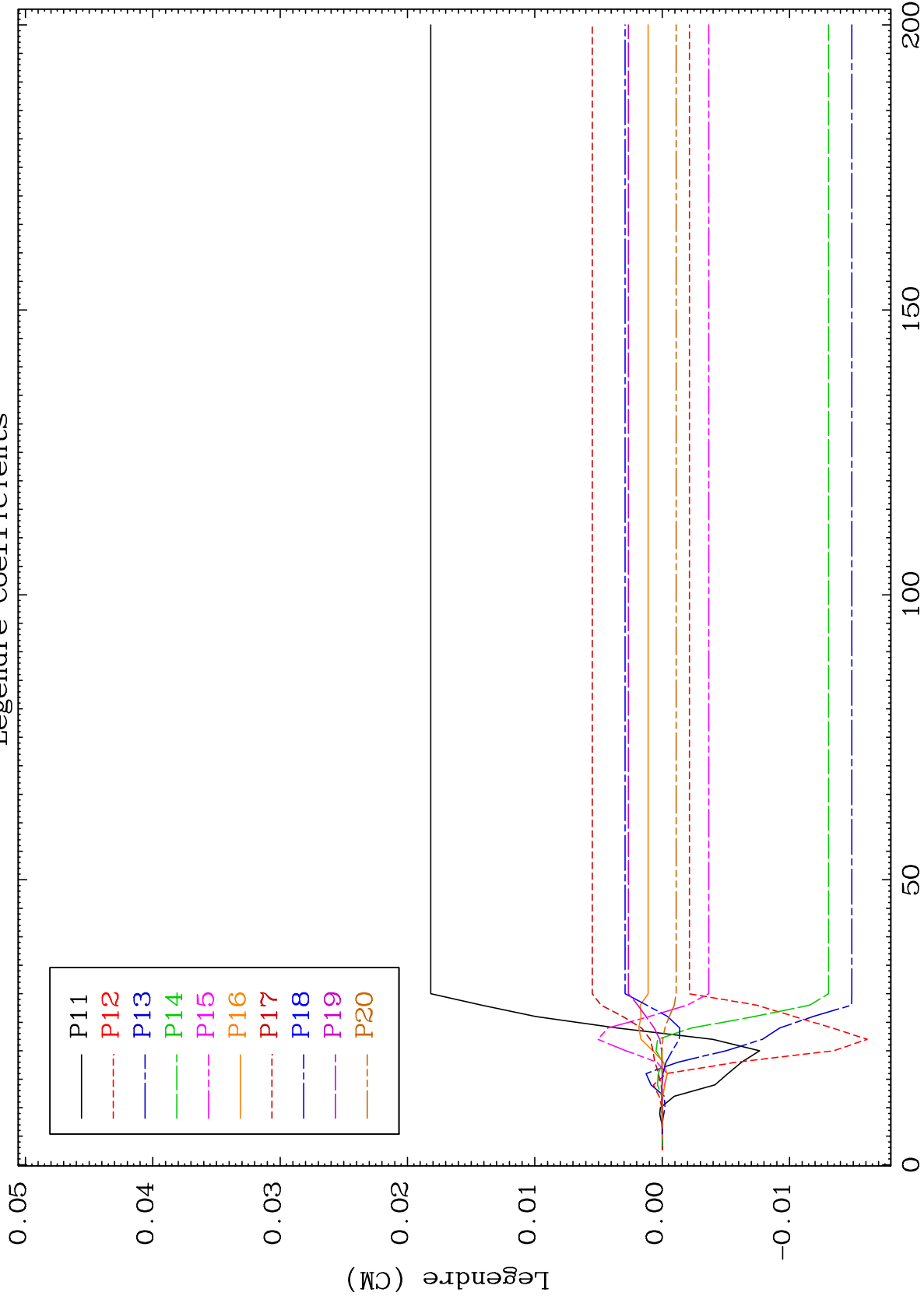
Incident Energy (MeV)

88

MAT 8331

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

83-Bi-211



89

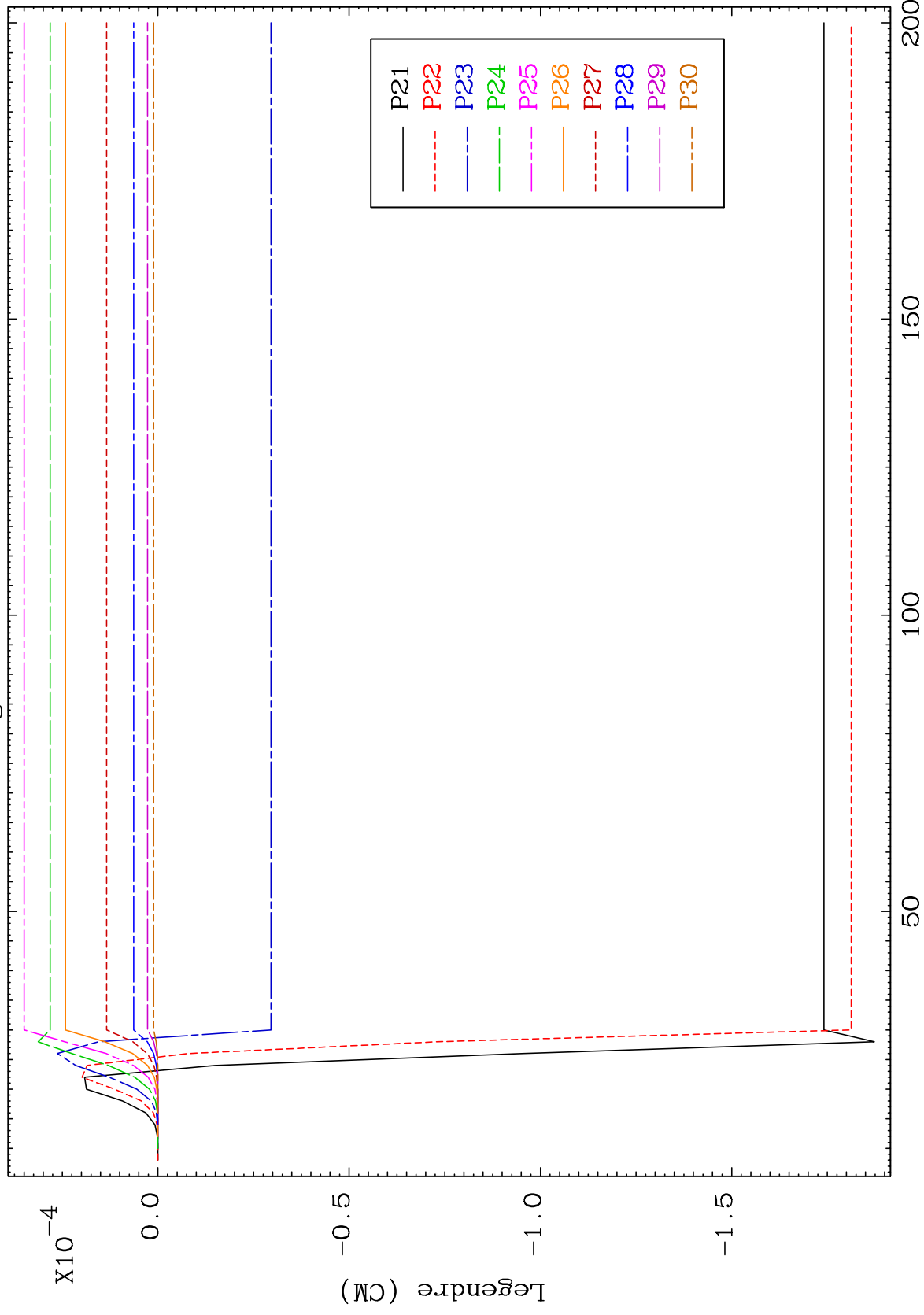
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



90

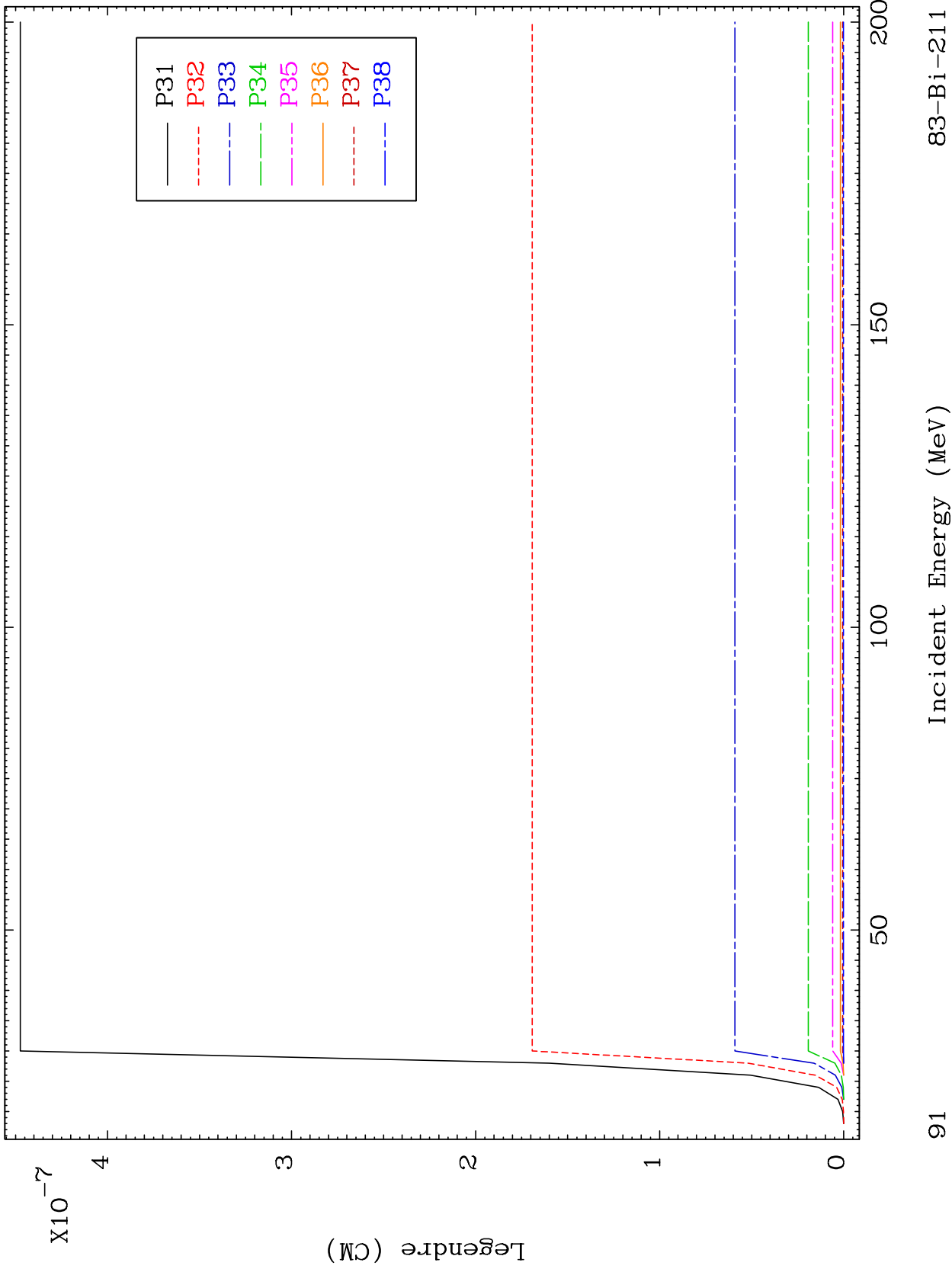
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

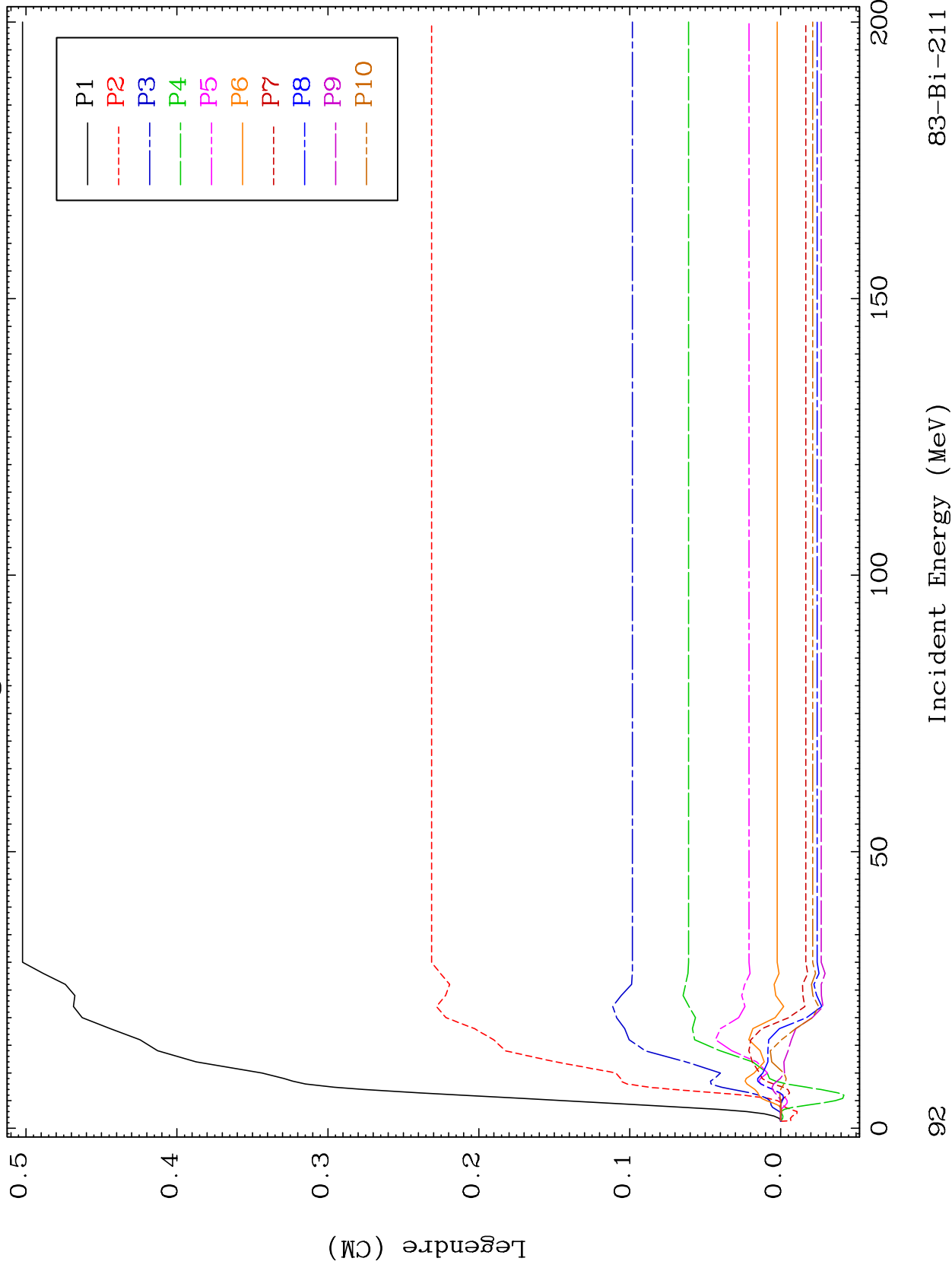
83-Bi-211



MAT 8331

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

83-Bi-211



83-Bi-211

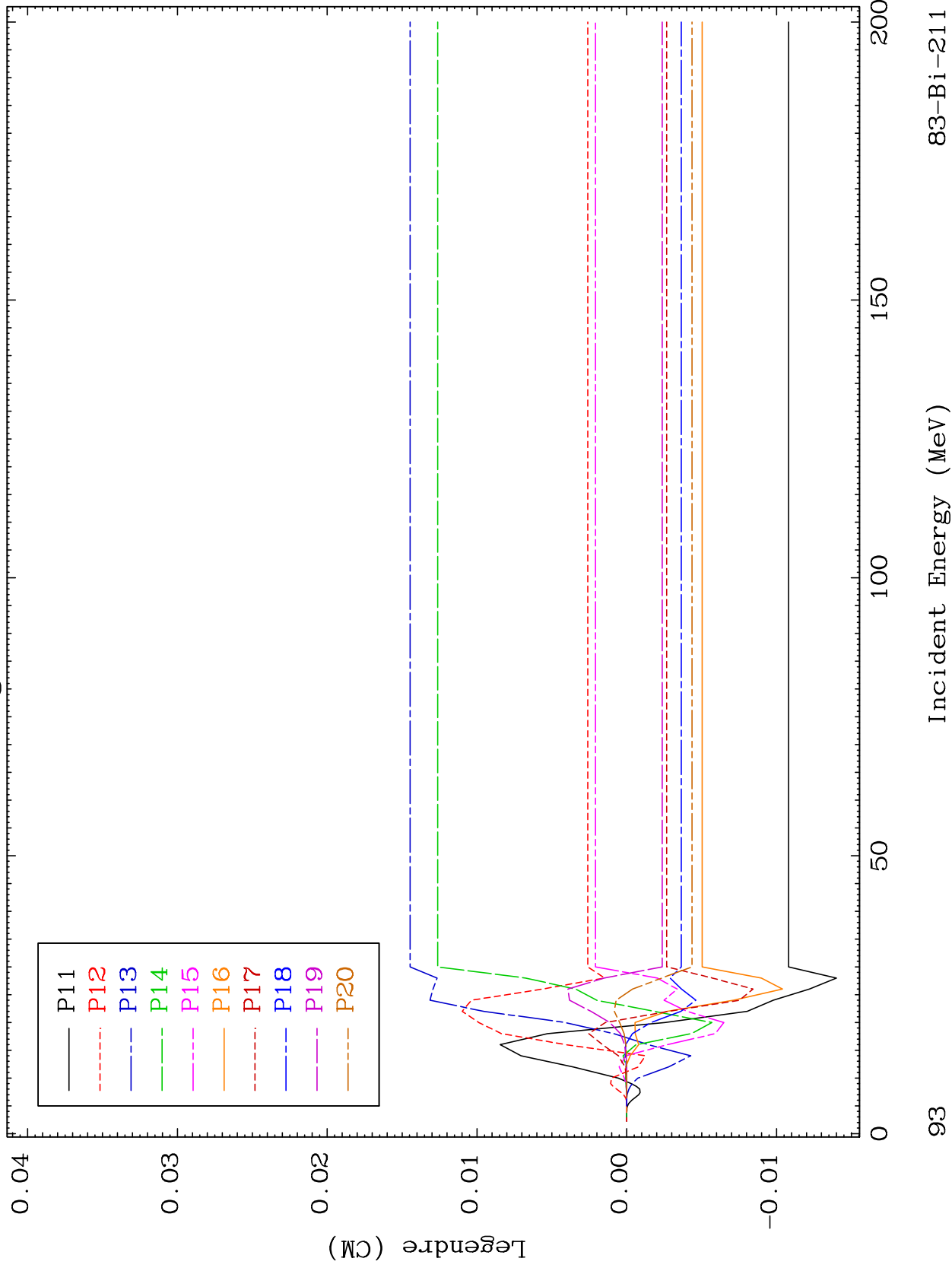
Incident Energy (MeV)

92

MAT 8331

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

83-Bi-211



93

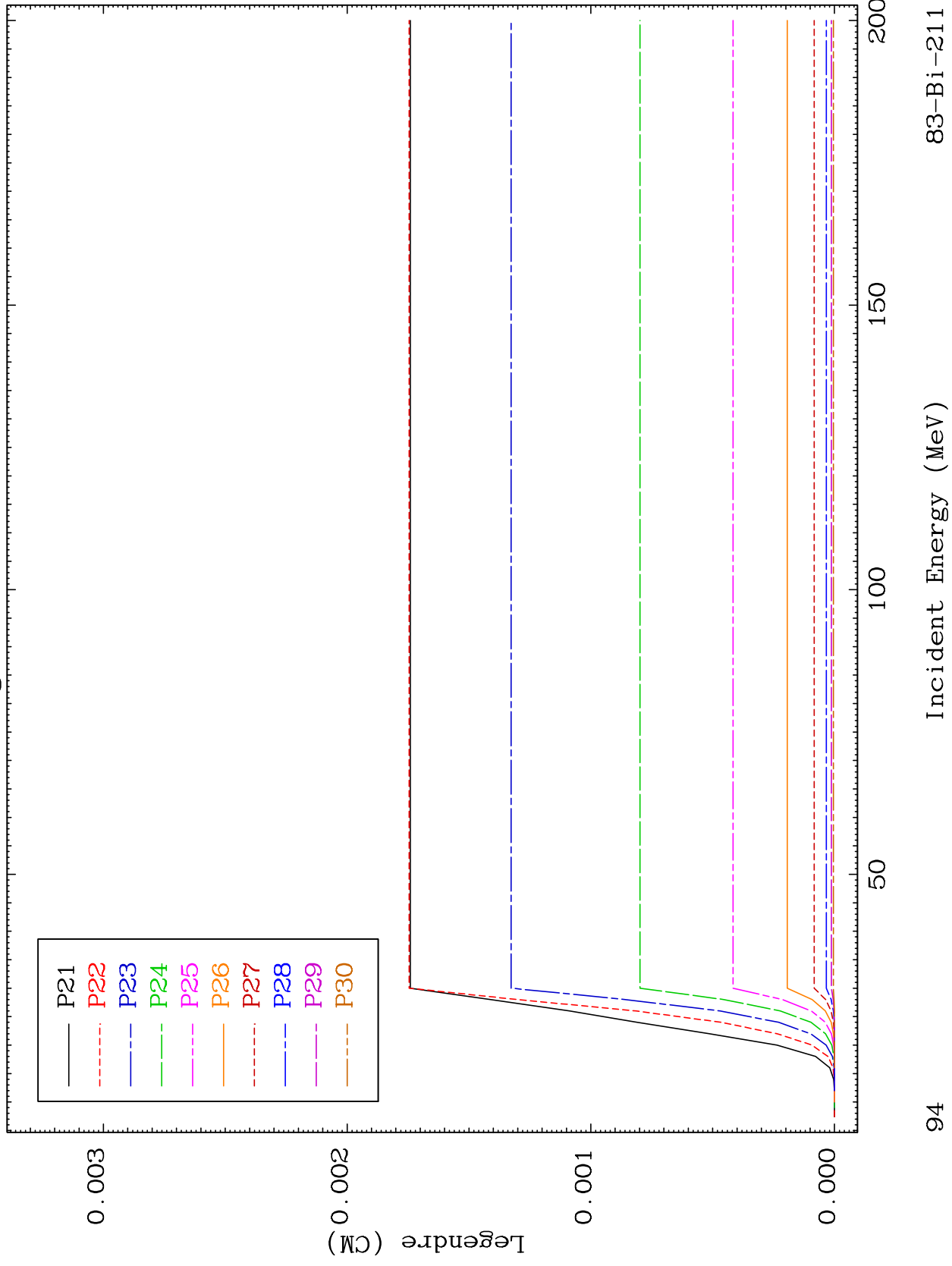
Incident Energy (MeV)

83-Bi-211

MAT 8331

83-Bi-211

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



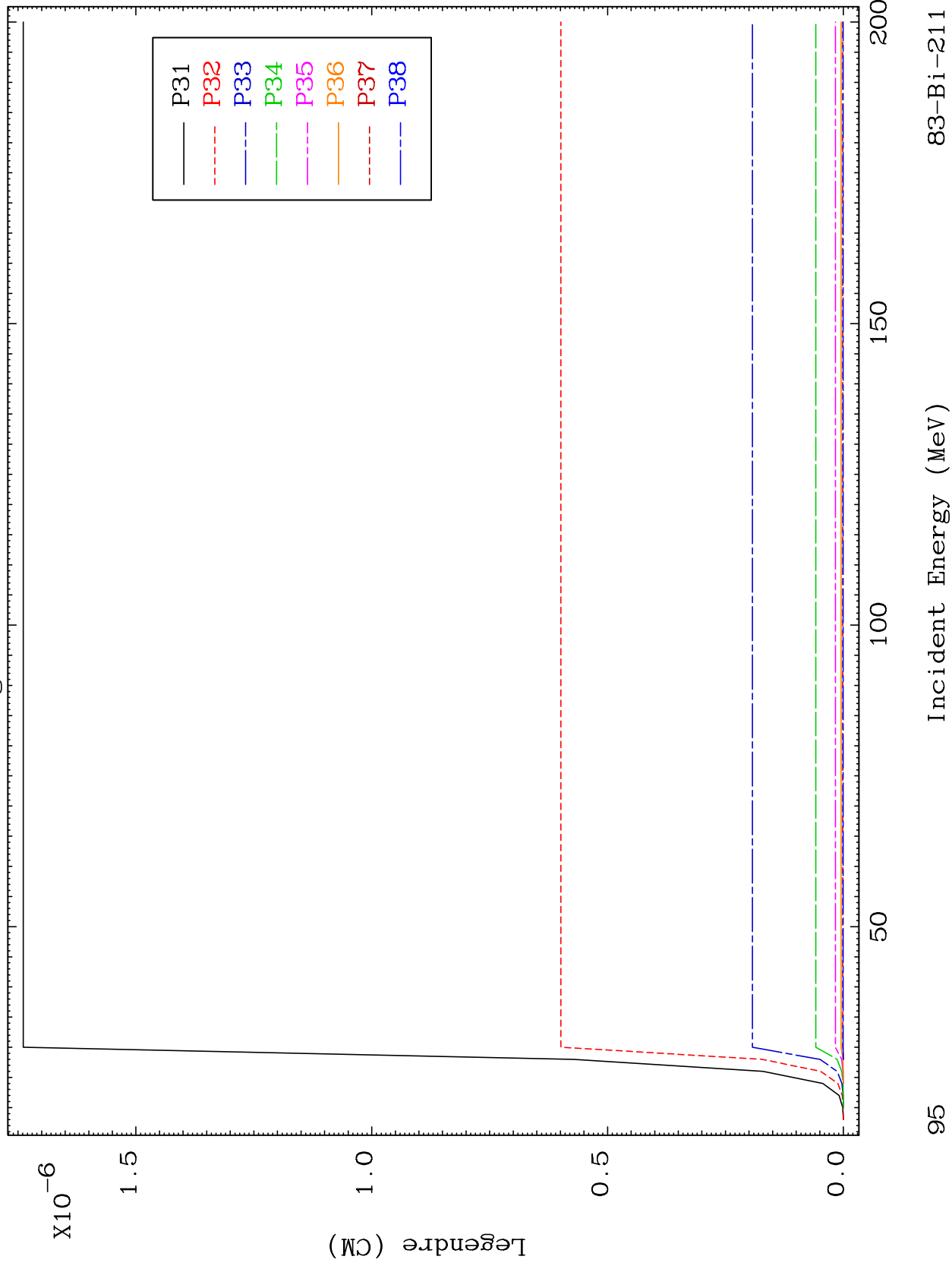
94

83-Bi-211

MAT 8331

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

83-Bi-211

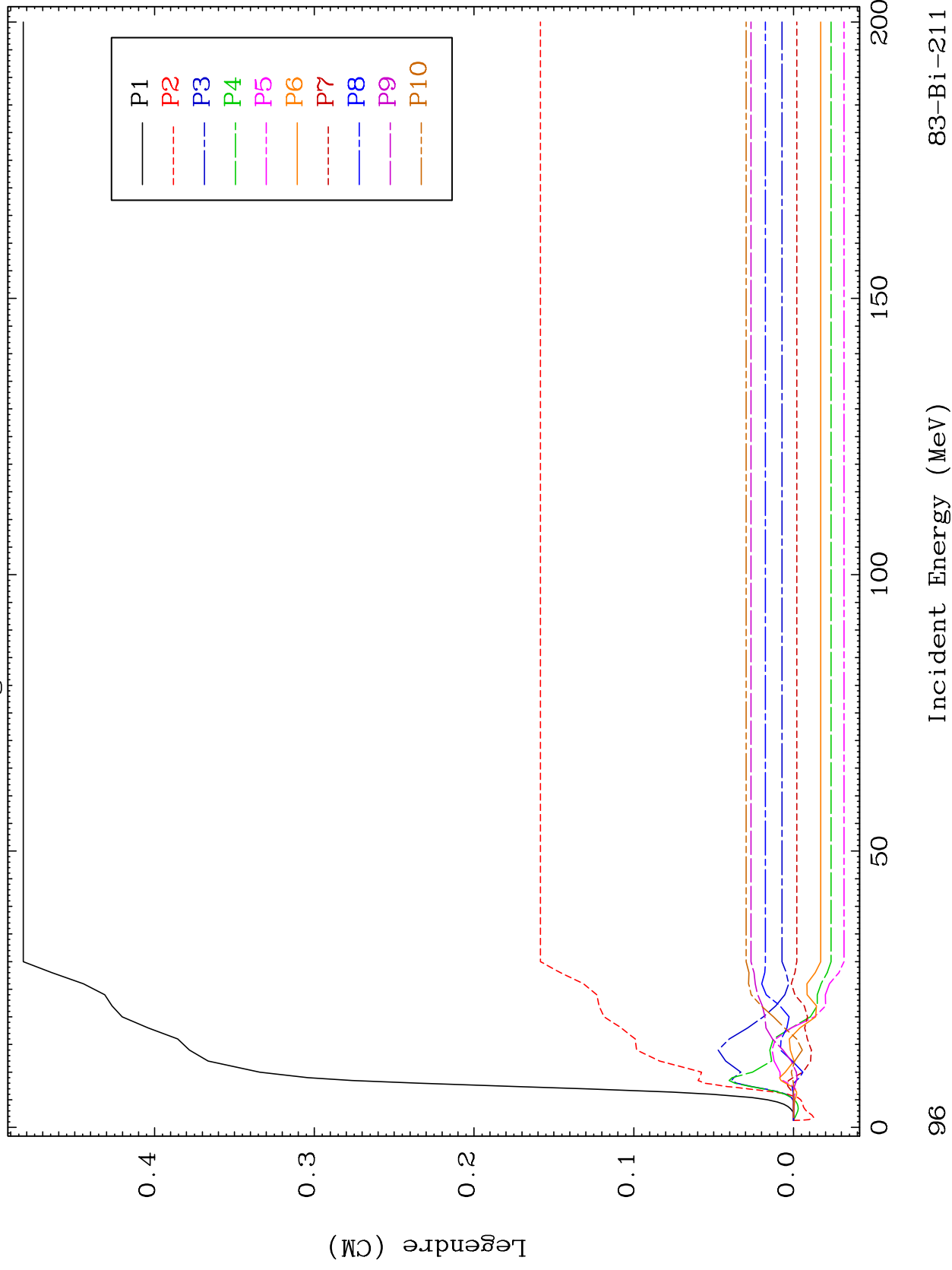




MAT 8331

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

83-Bi-211



96

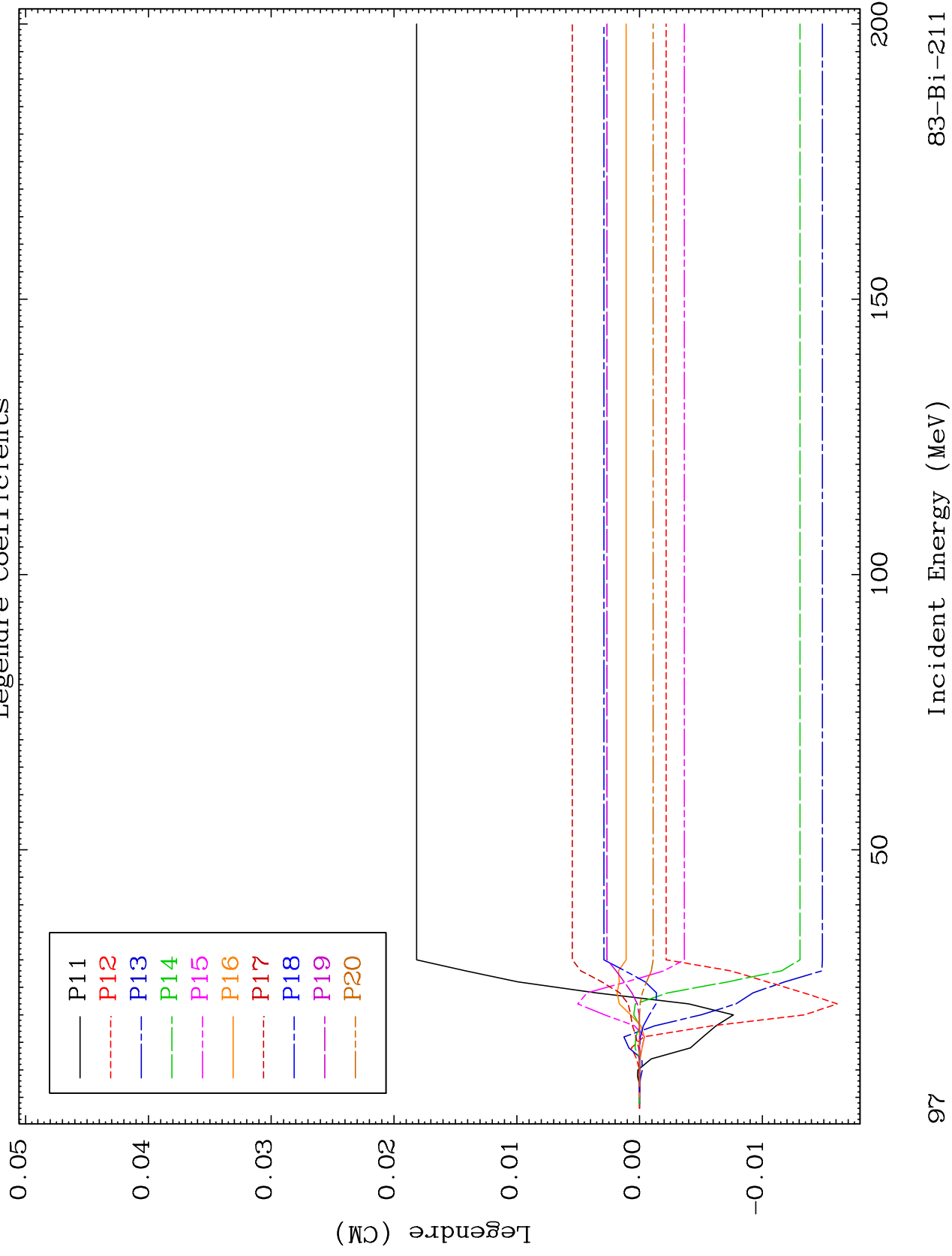
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

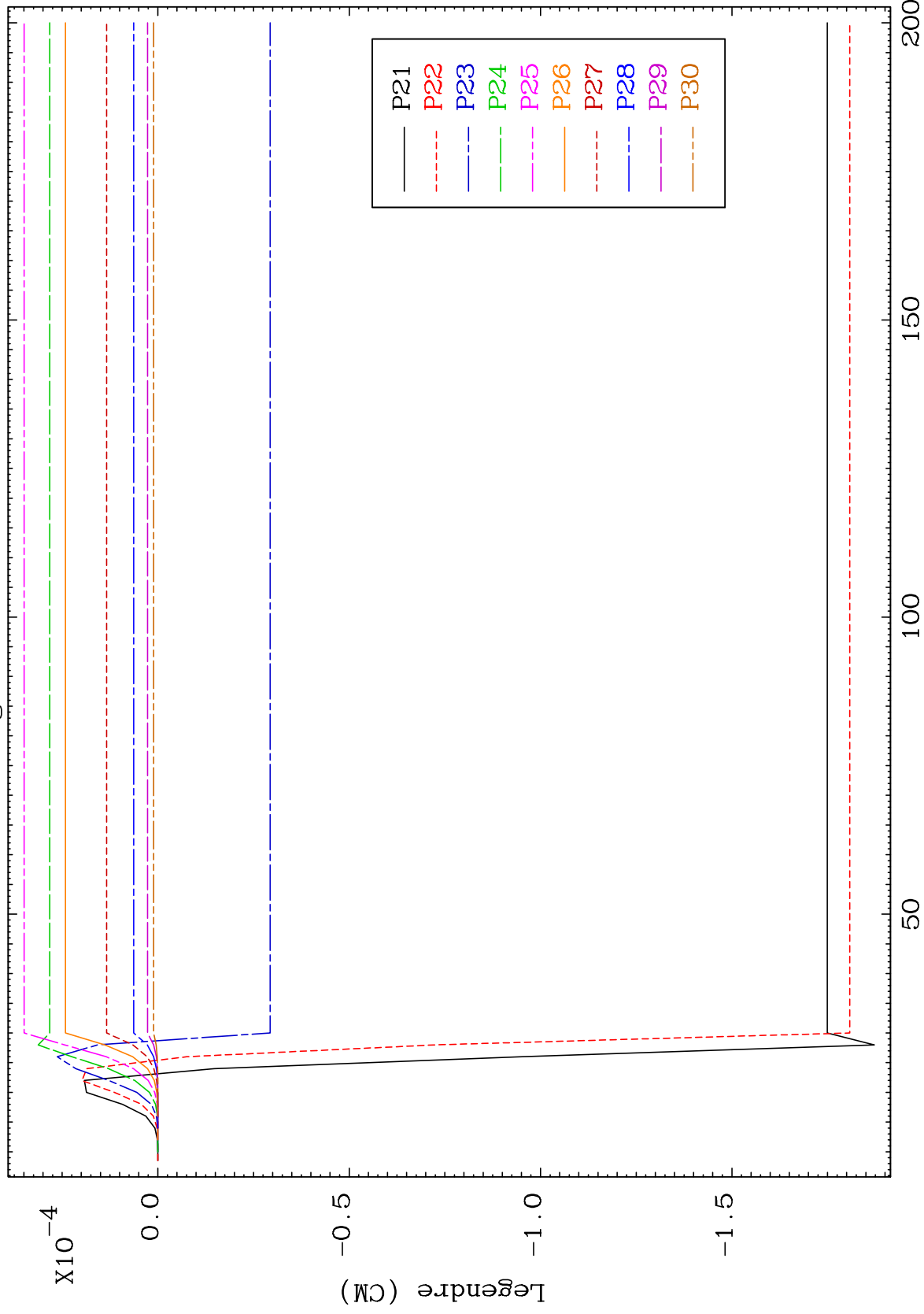
83-Bi-211



97

Incident Energy (MeV)

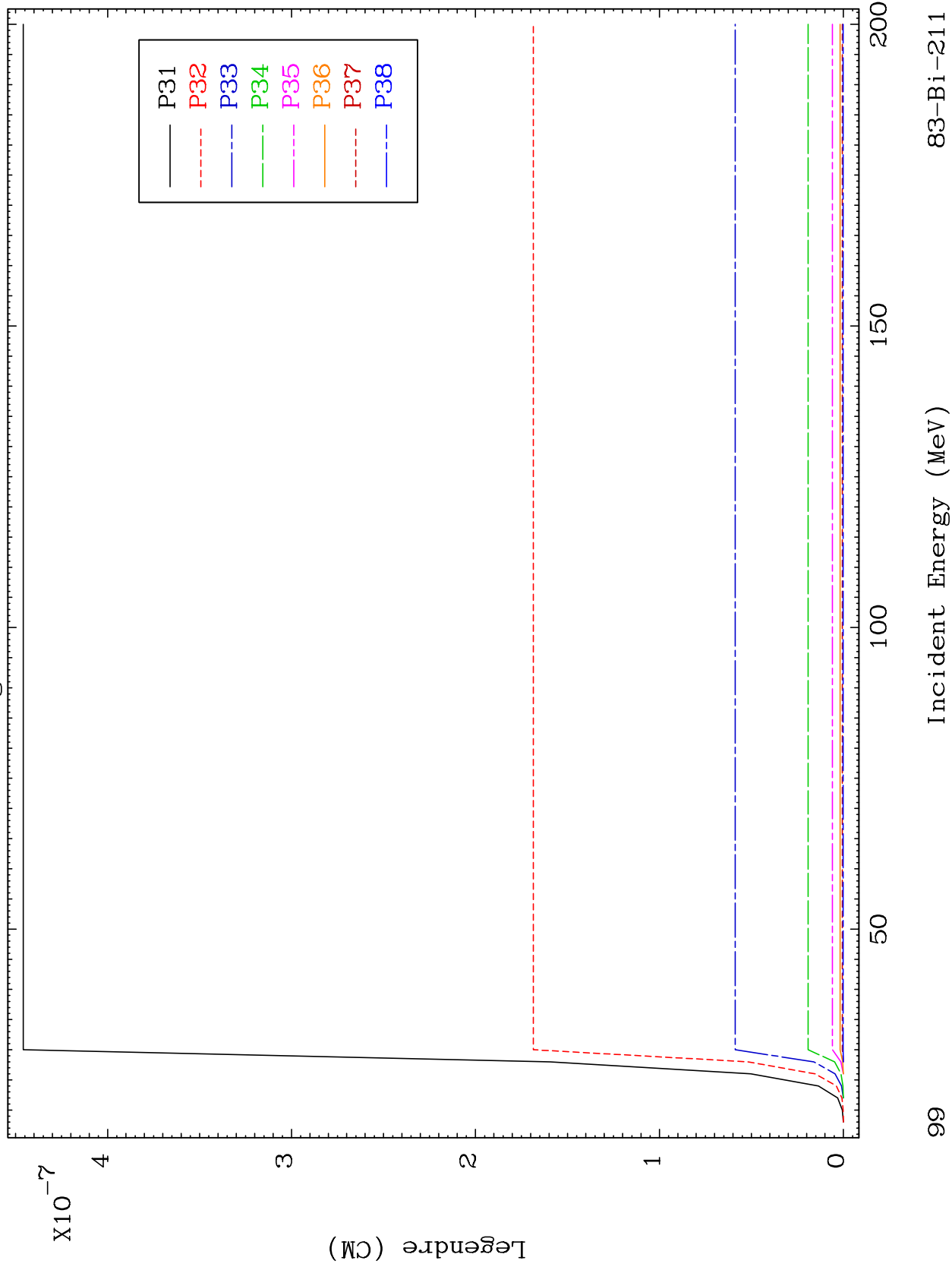
83-Bi-211



MAT 8331

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

83-Bi-211



99

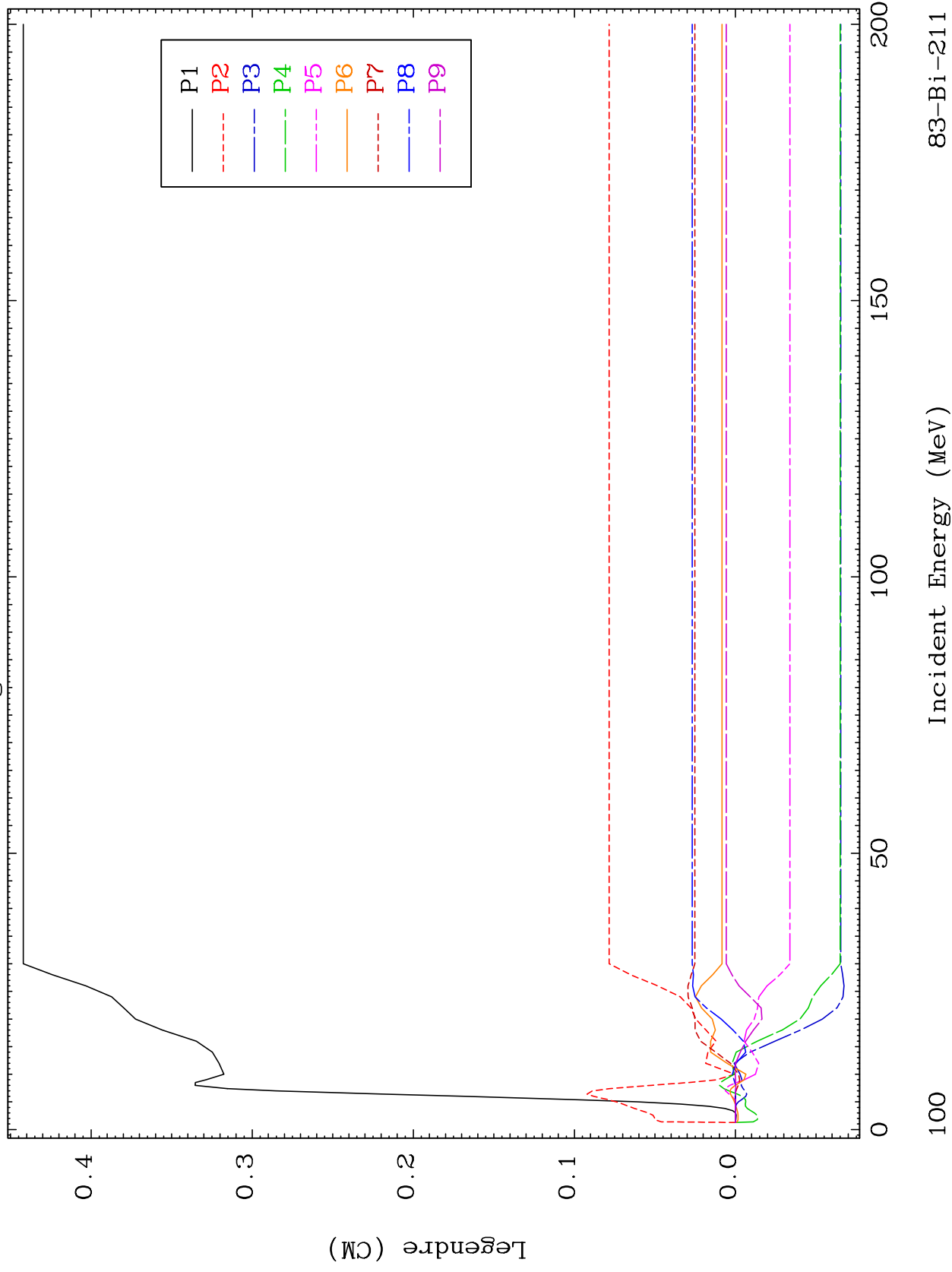
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



83-Bi-211

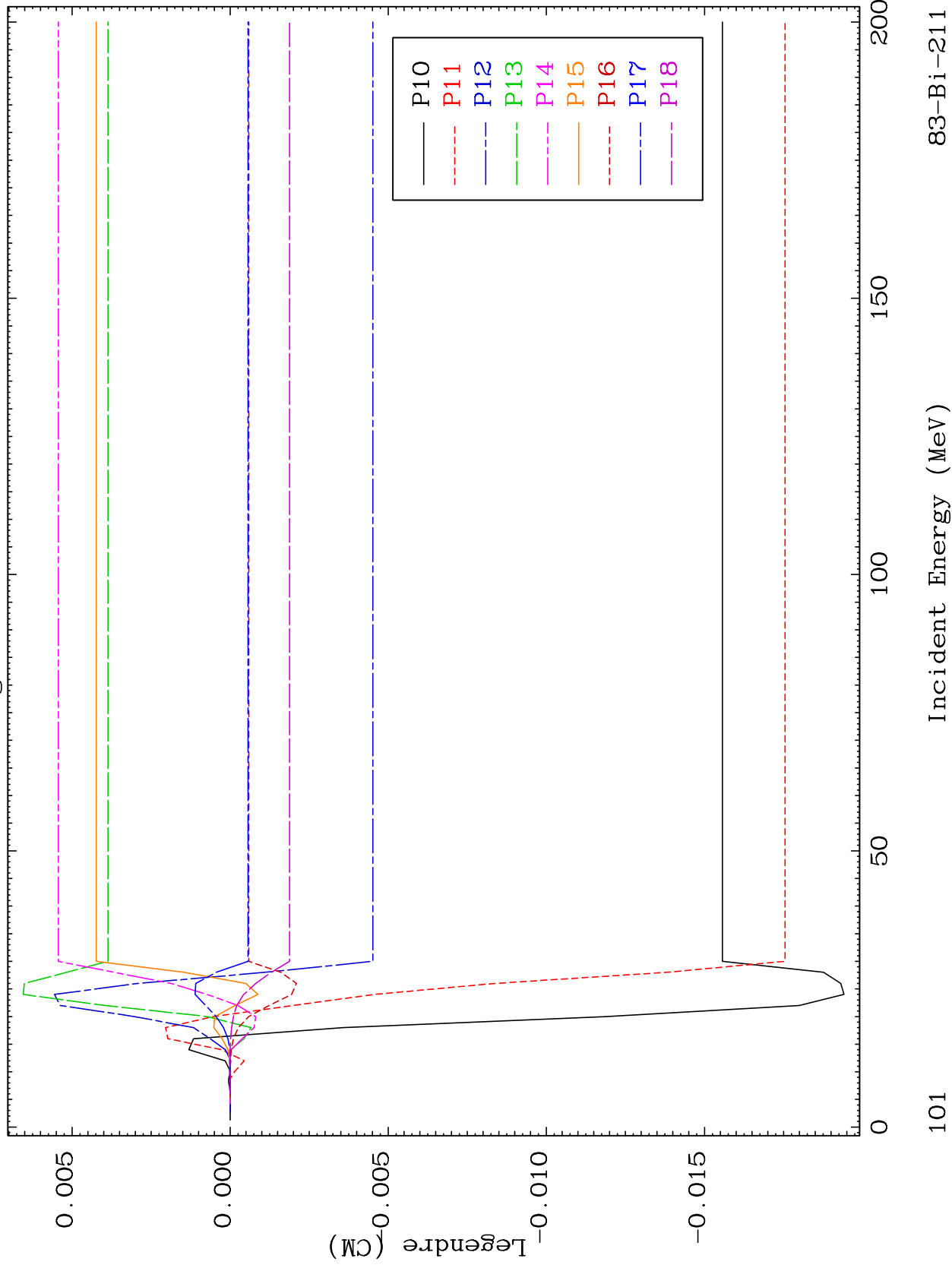
Incident Energy (MeV)

100

MAT 8331

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

83-Bi-211



101

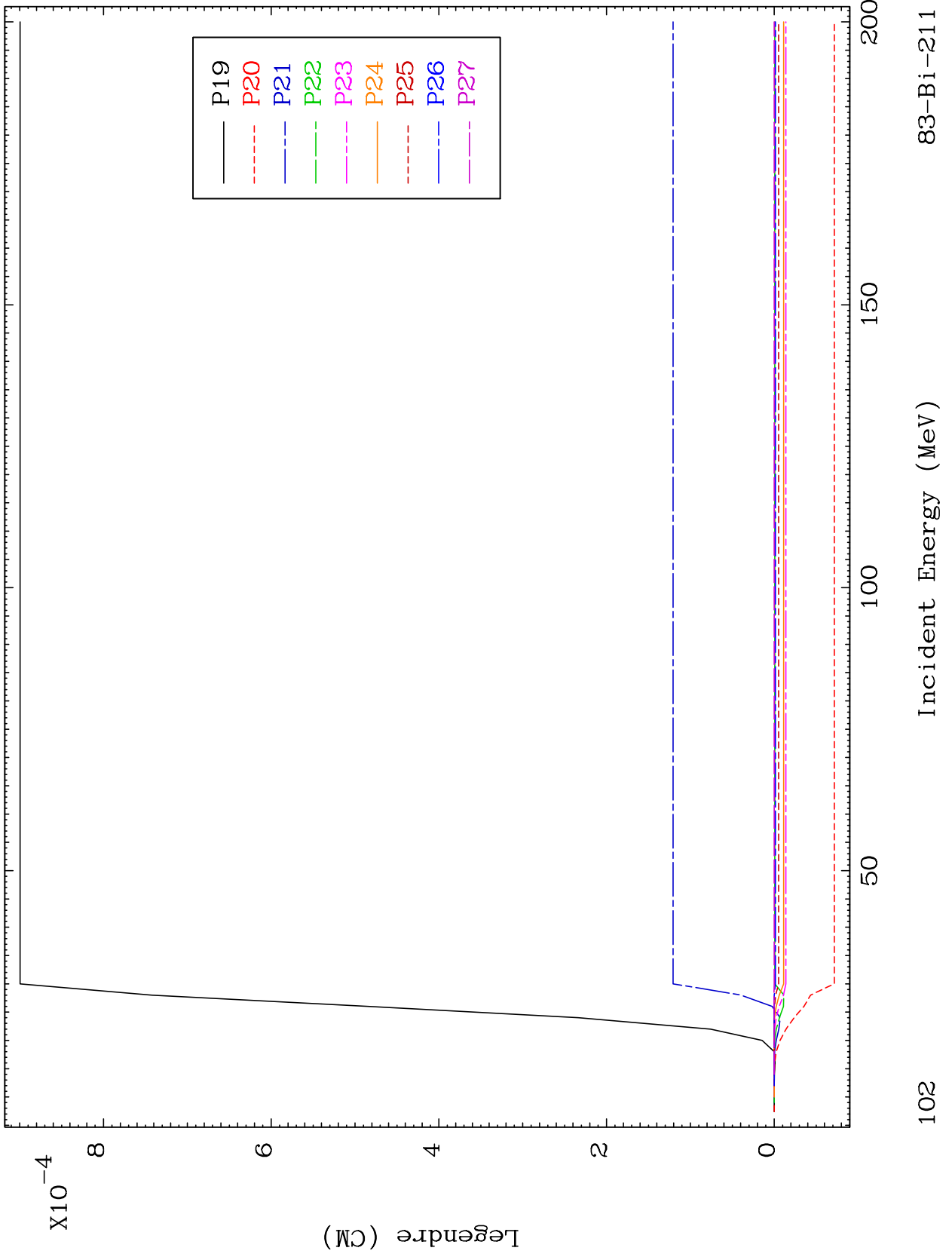
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211

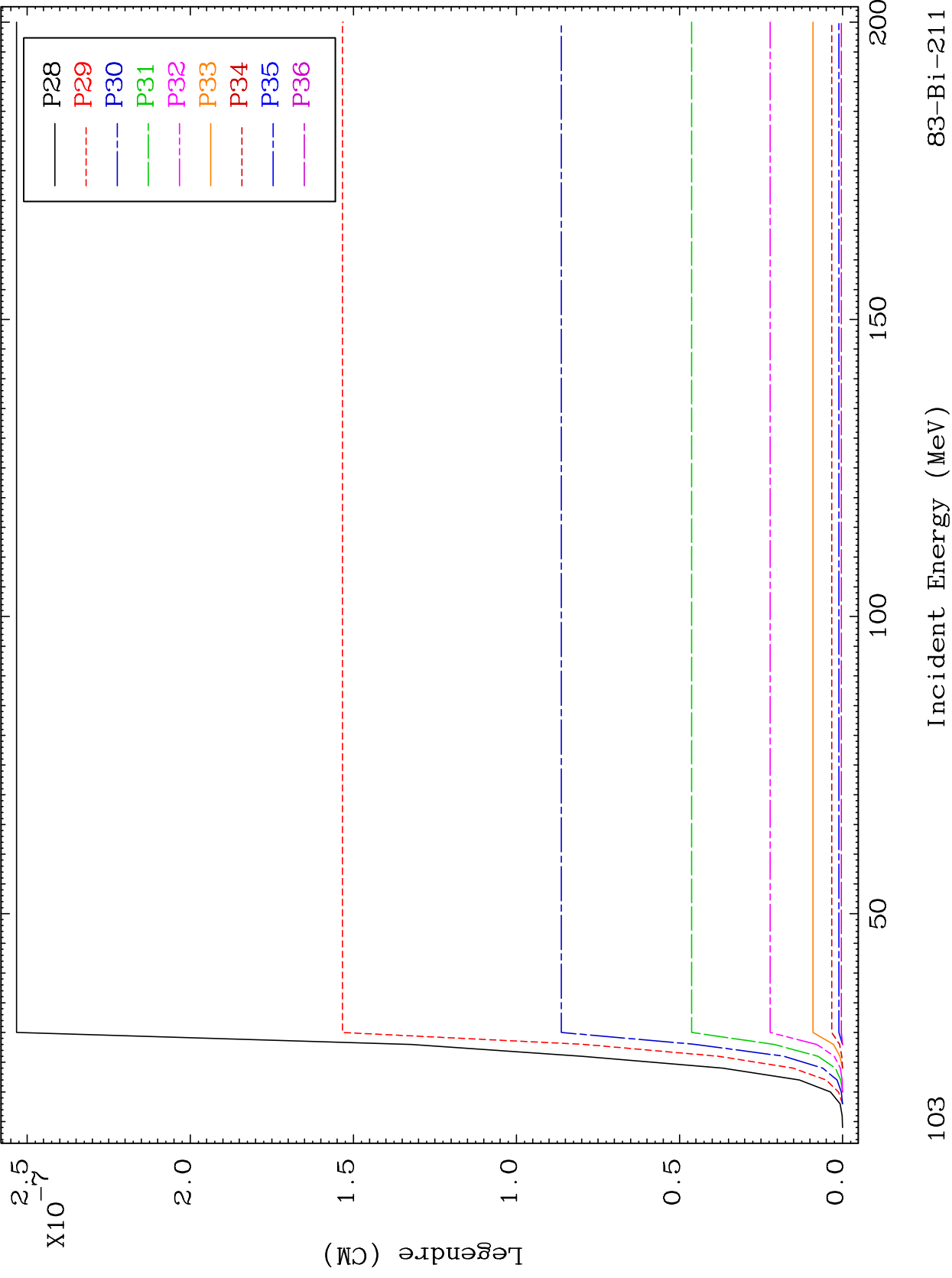


102

MAT 8331

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

83-Bi-211



103

Incident Energy (MeV)

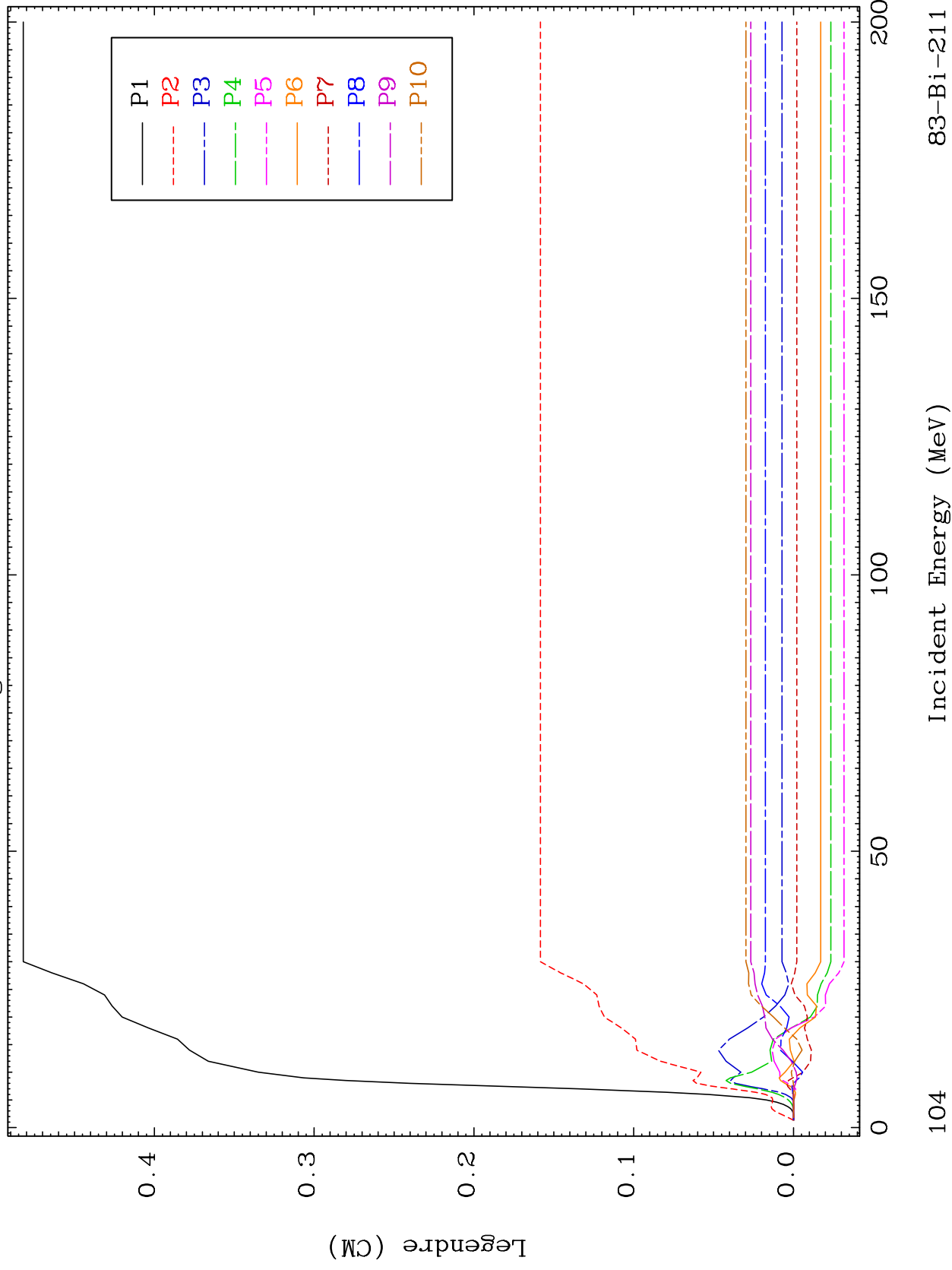
83-Bi-211



MAT 8331

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

83-Bi-211



104

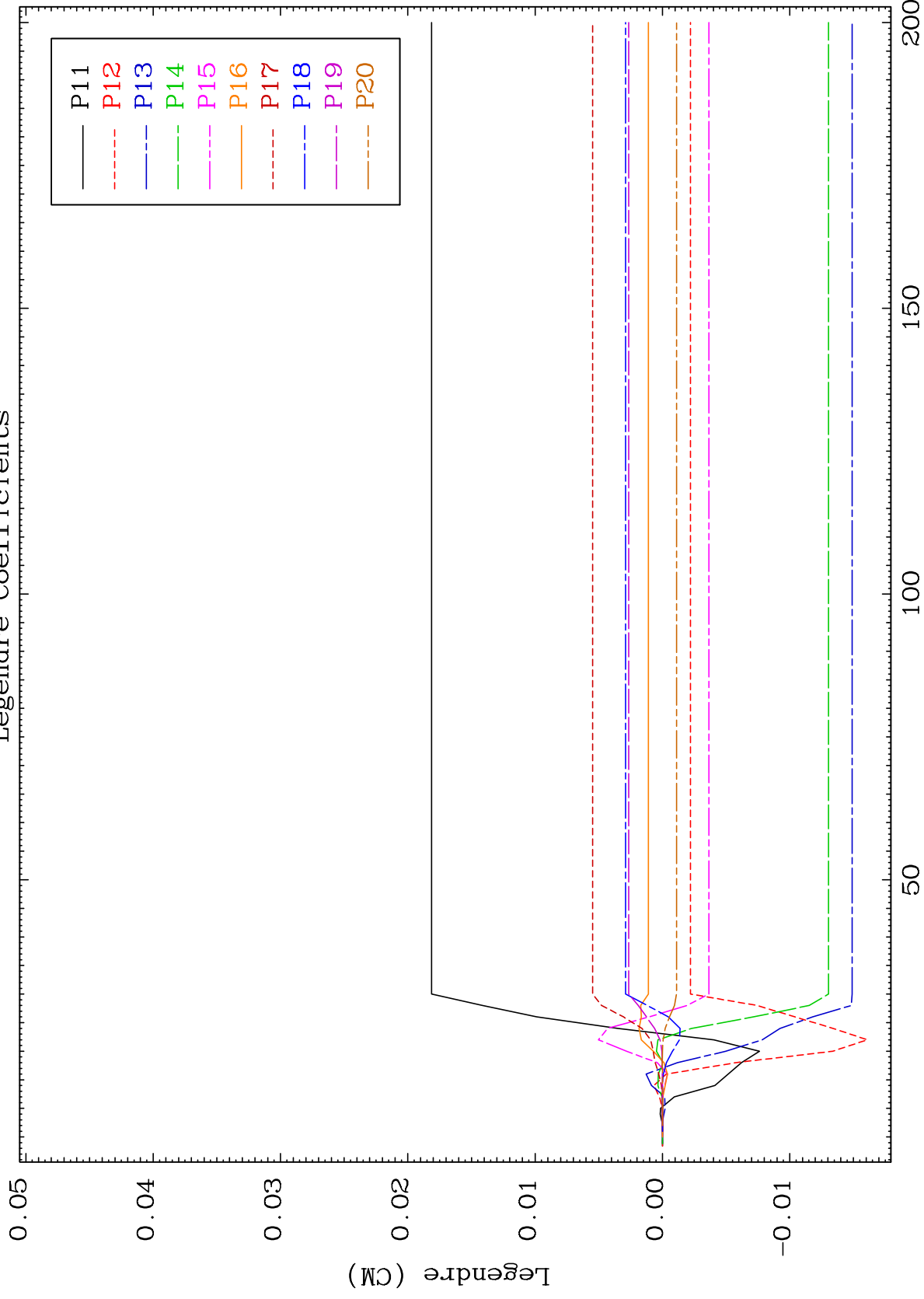
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



105

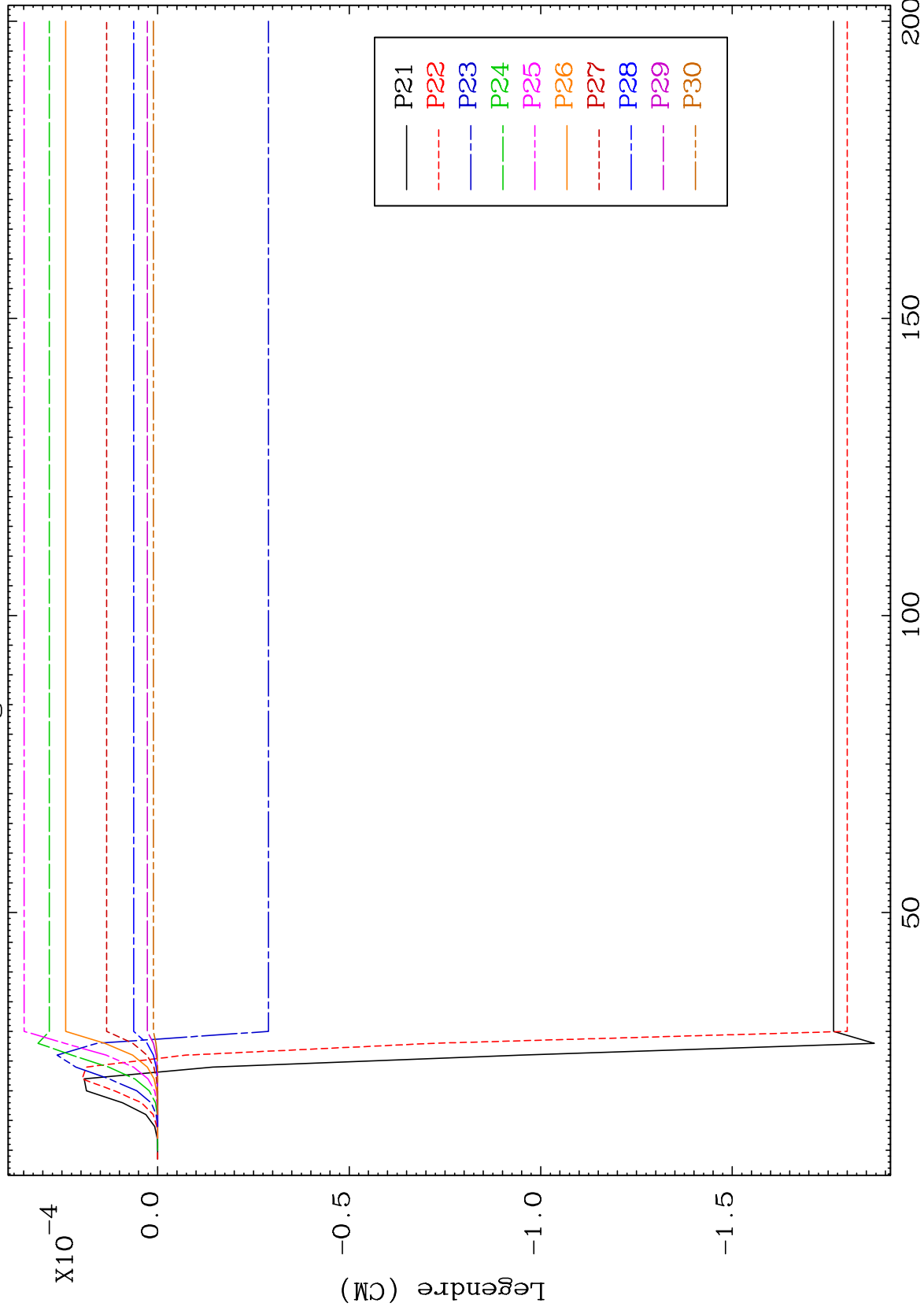
Incident Energy (MeV)

83-Bi-211

MAT 8331

83-Bi-211

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



106

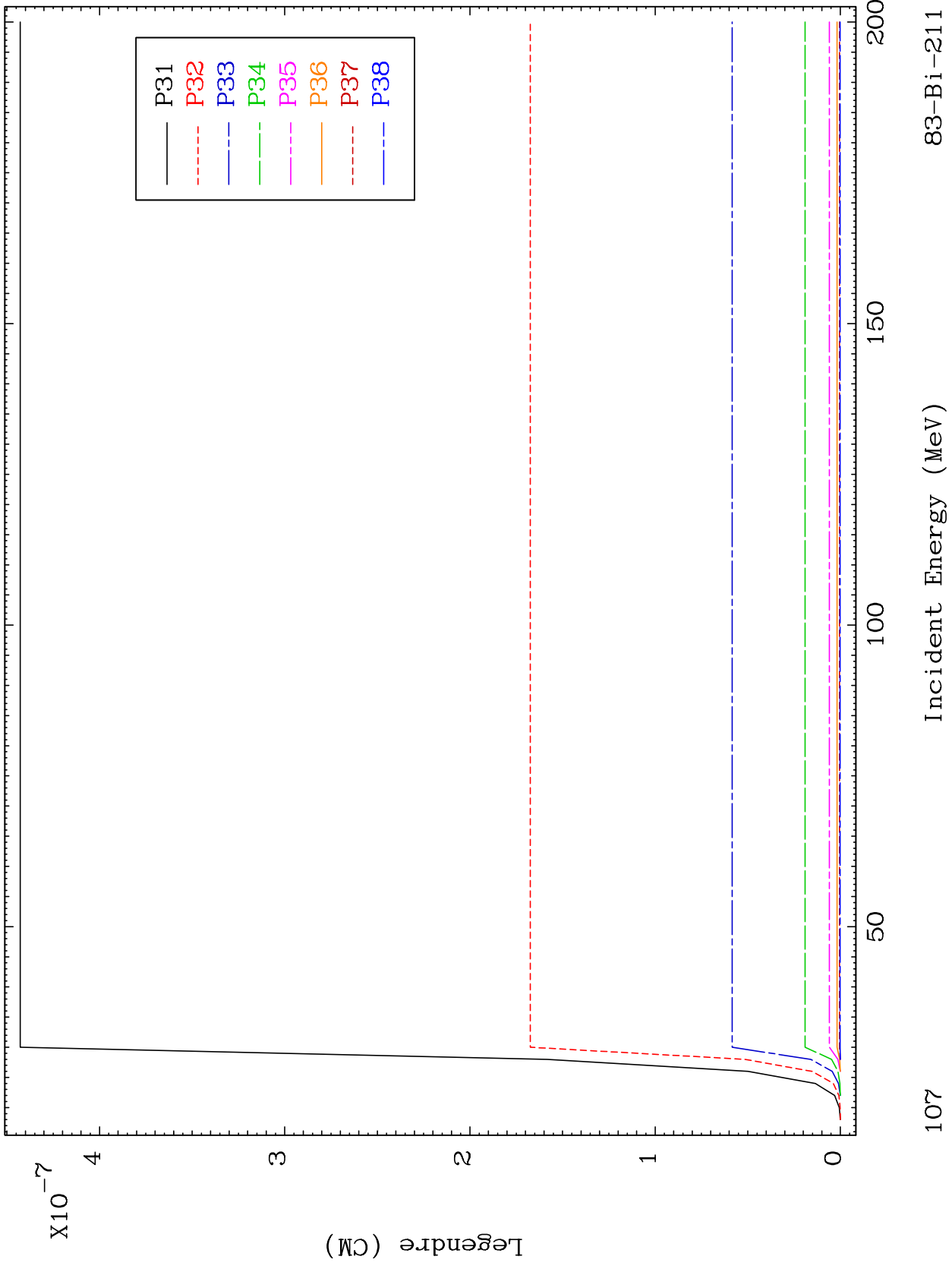
Incident Energy (MeV)

83-Bi-211

MAT 8331

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

83-Bi-211



107

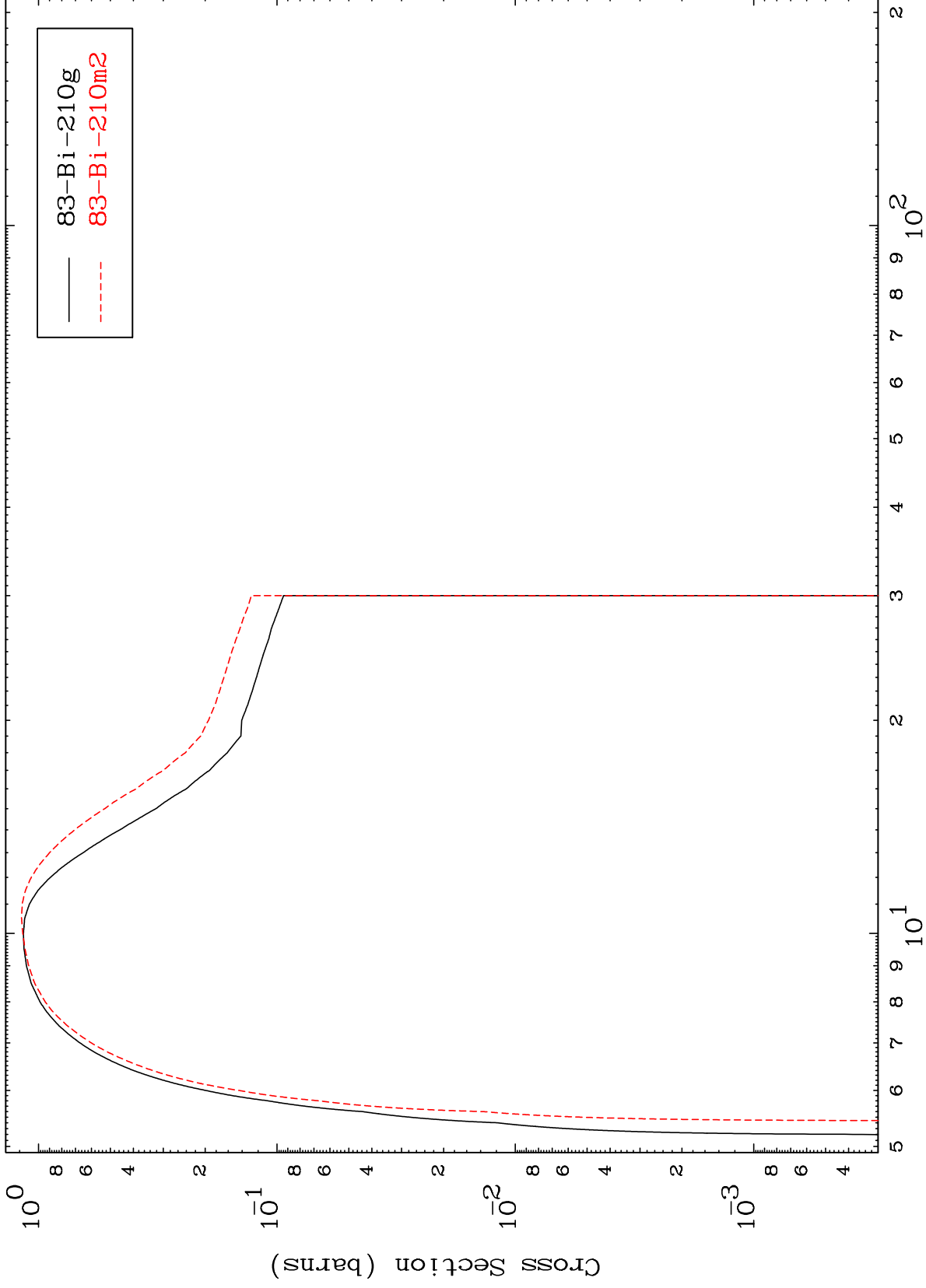
Incident Energy (MeV)

83-Bi-211

MAT 8331

83-Bi-211

(n,2n)  
Radionuclide Production Cross Section



83-Bi-211

Incident Energy (MeV)

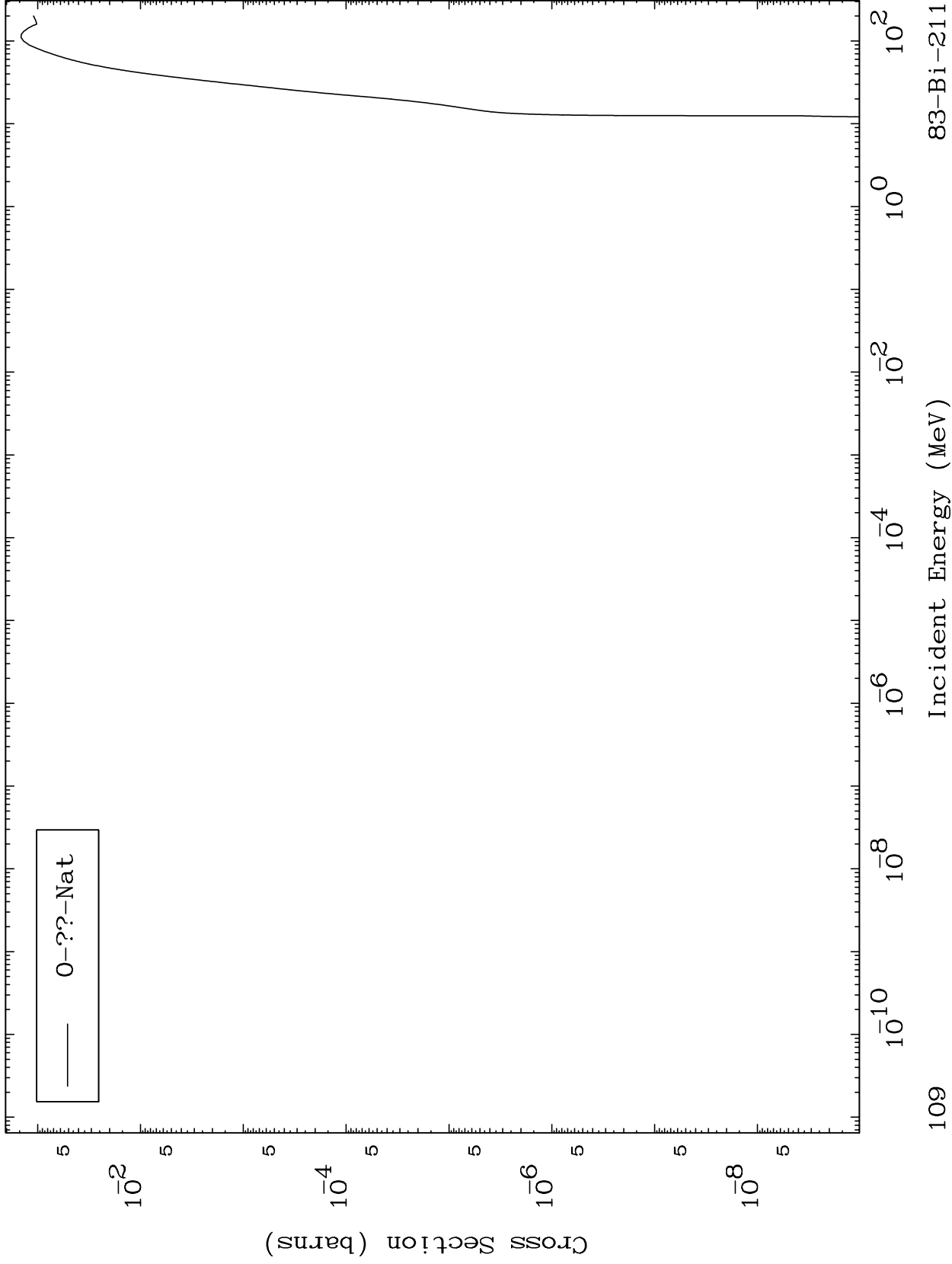
108

MAT 8331

Fission

83-Bi-211

Radionuclide Production Cross Section

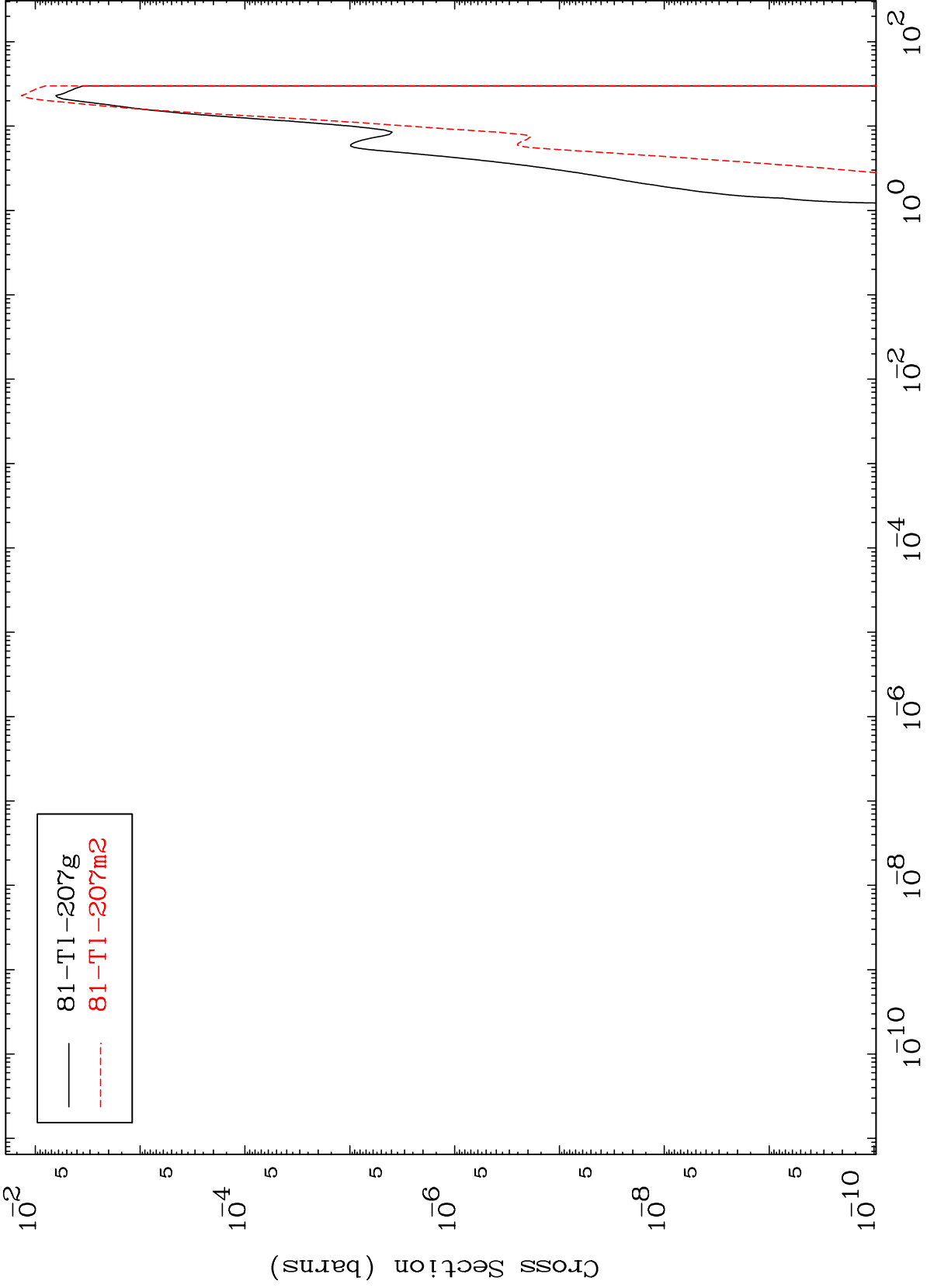


MAT 8331

$(n, n') \alpha$

83-Bi-211

Radionuclide Production Cross Section



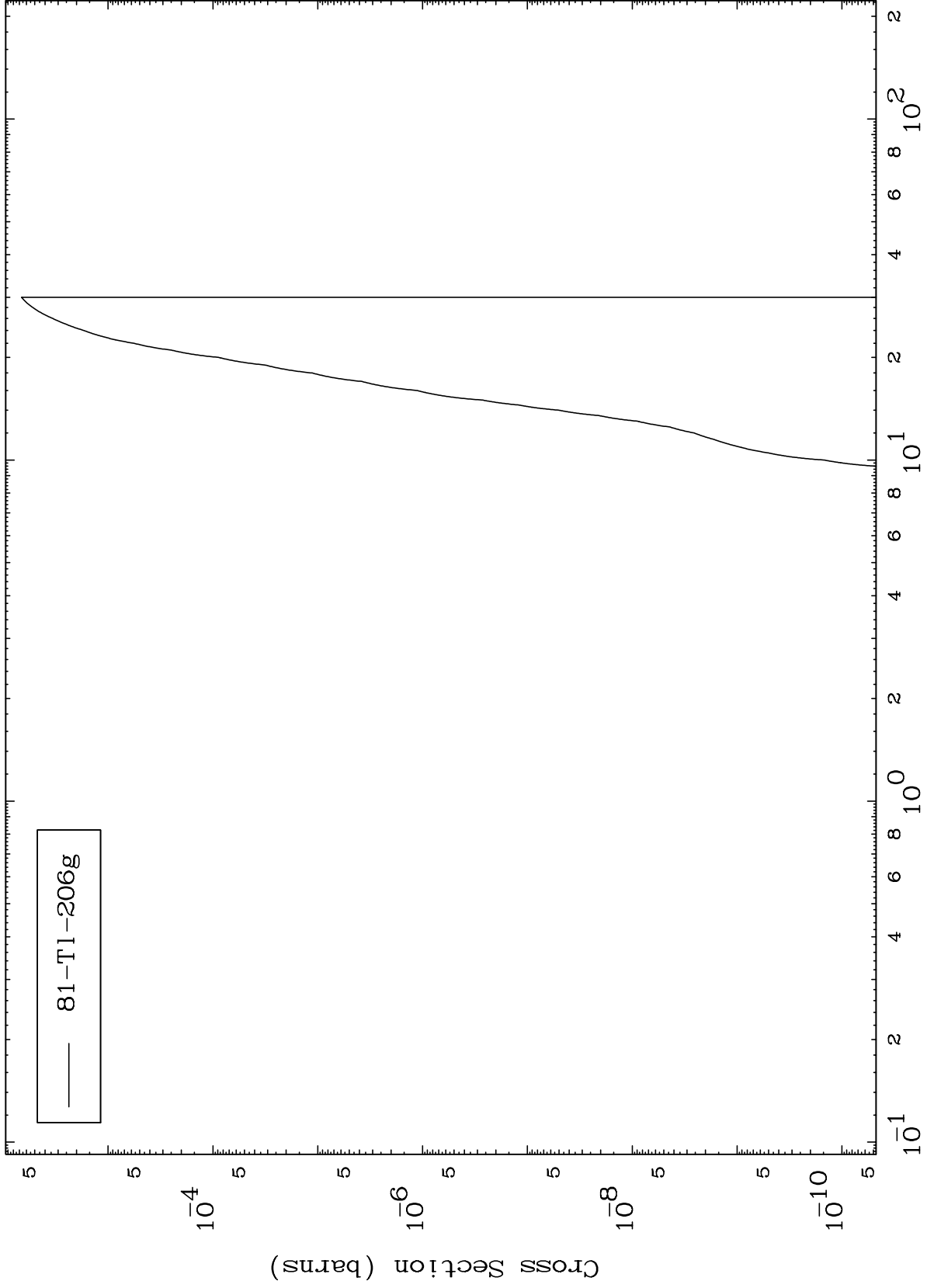
81-Tl-207g  
81-Tl-207m2

MAT 8331

$(n,2n) \alpha$

83-Bi-211

Radionuclide Production Cross Section



111

Incident Energy (MeV)

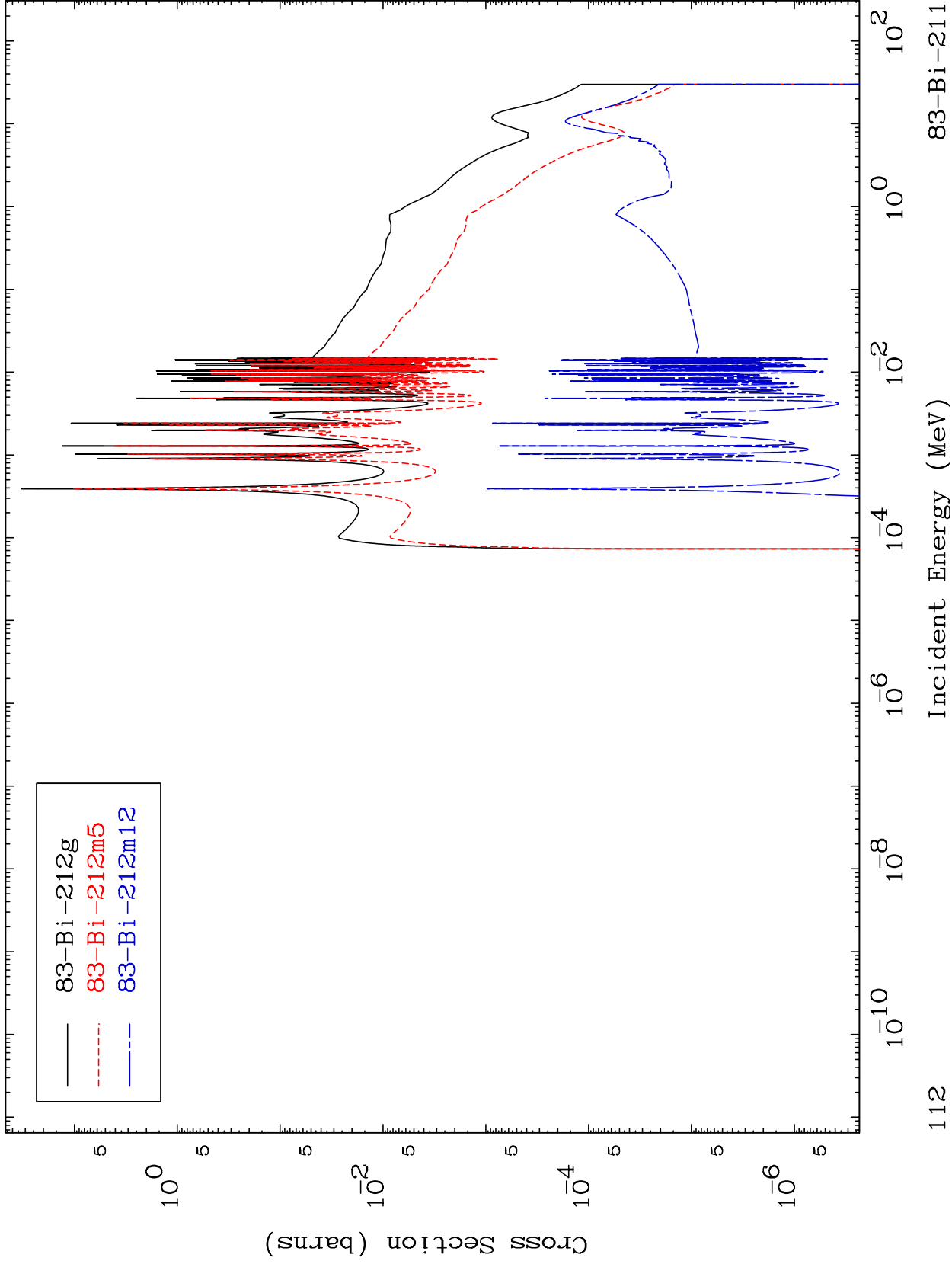
83-Bi-211



MAT 8331

83-Bi-211

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



112

83-Bi-211