

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

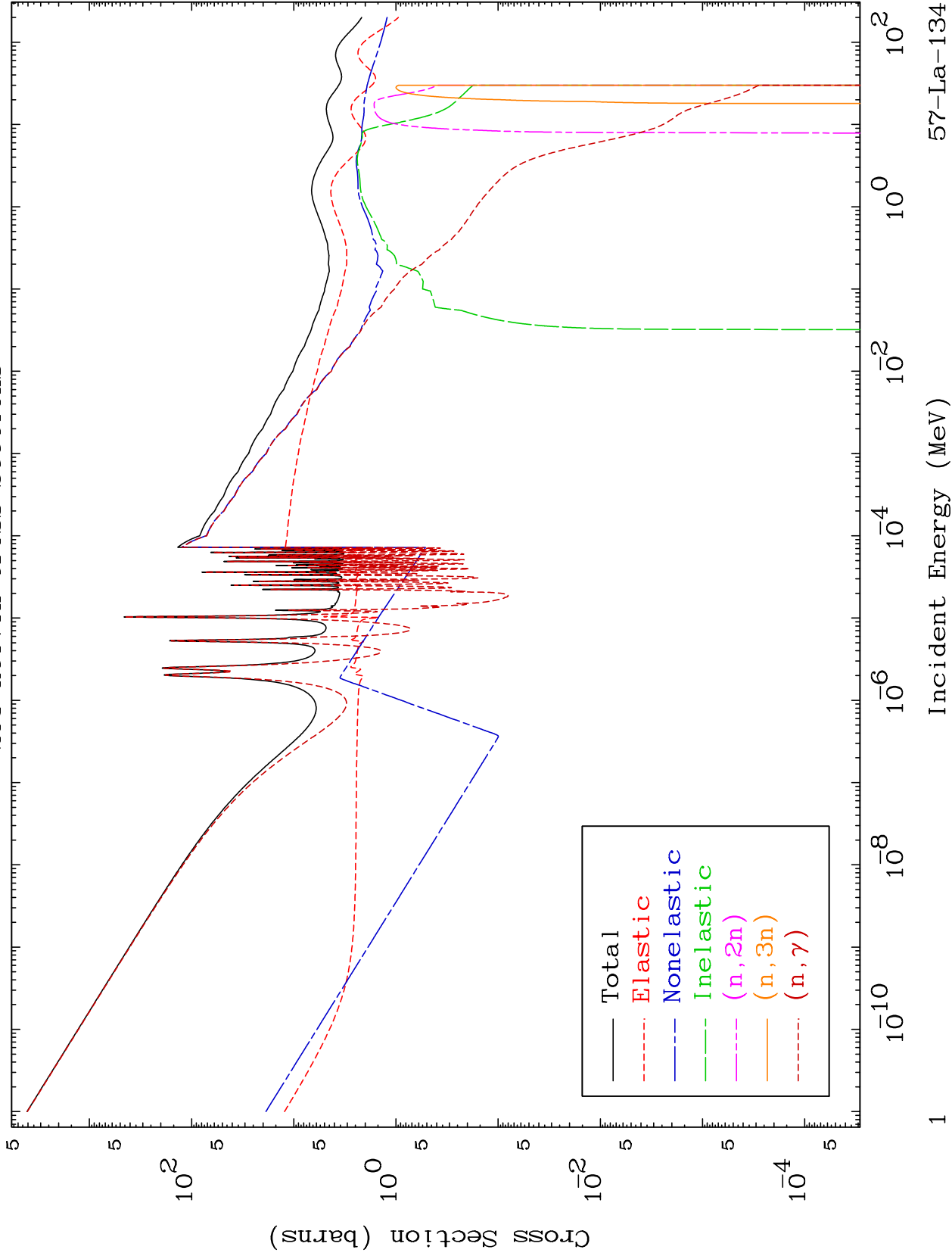
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5713

Neutron Major  
293 Kelvin Cross Sections

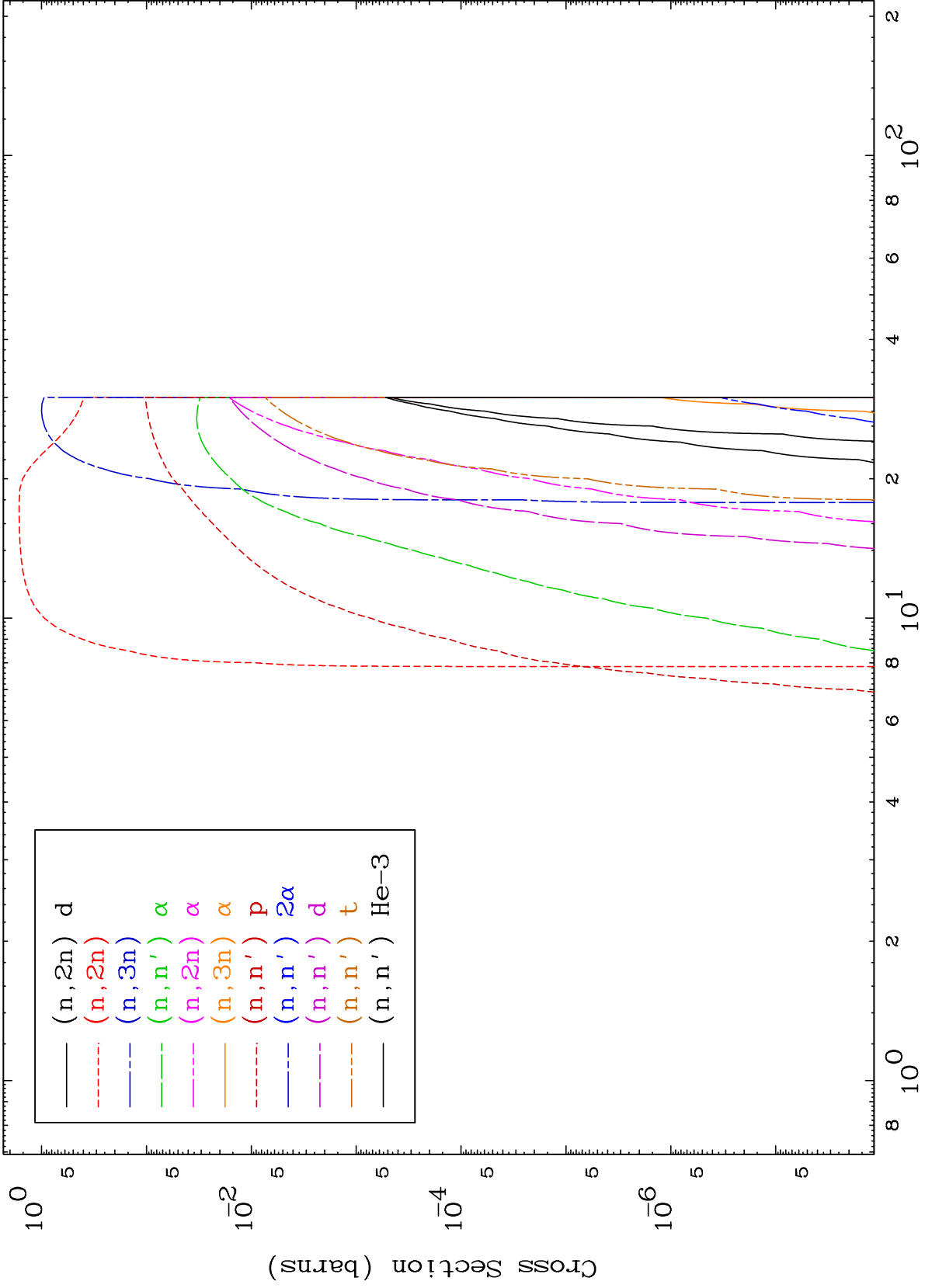
57-La-134



MAT 5713

Neutron Absorption  
293 Kelvin Cross Sections

57-La-134



57-La-134

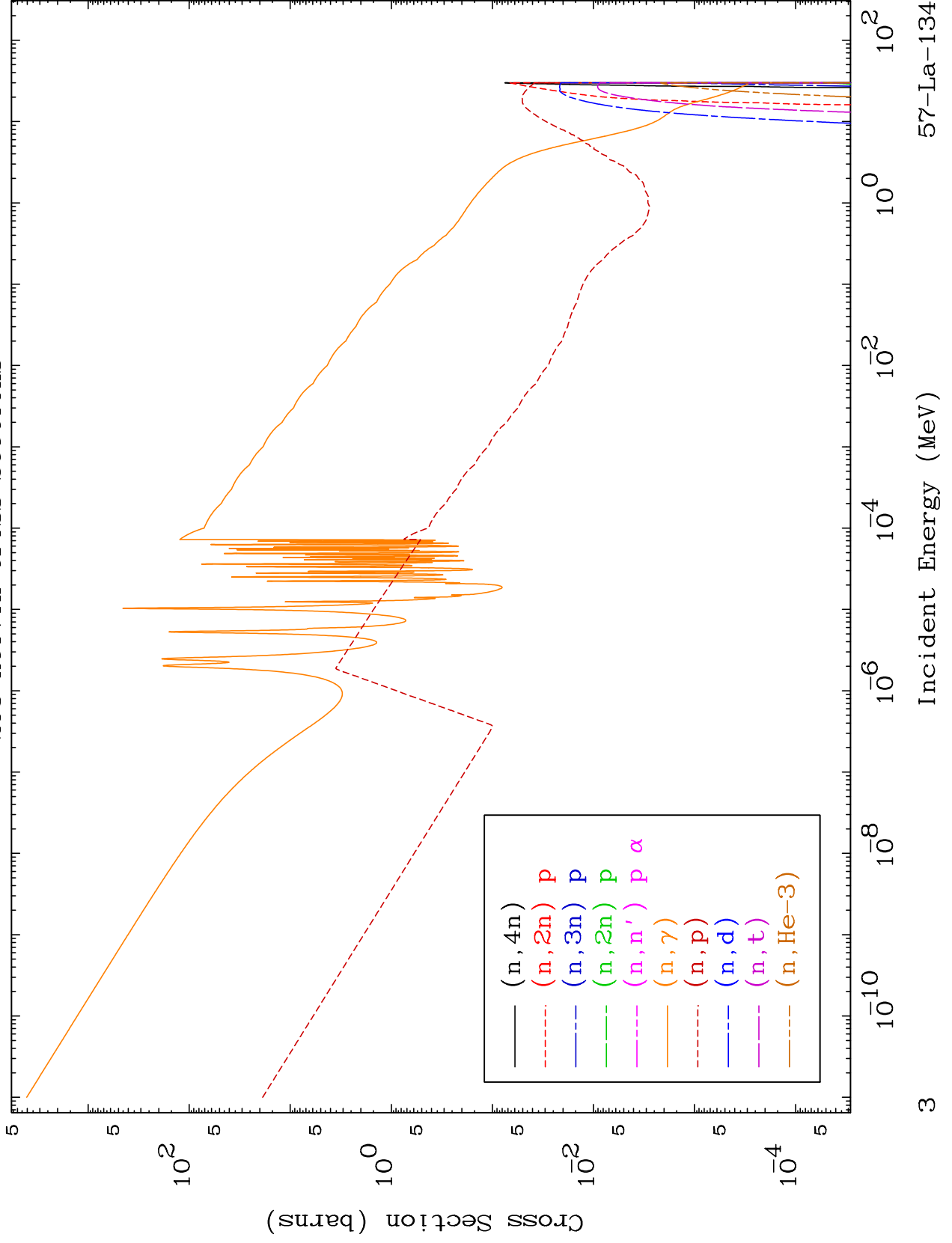
Incident Energy (MeV)

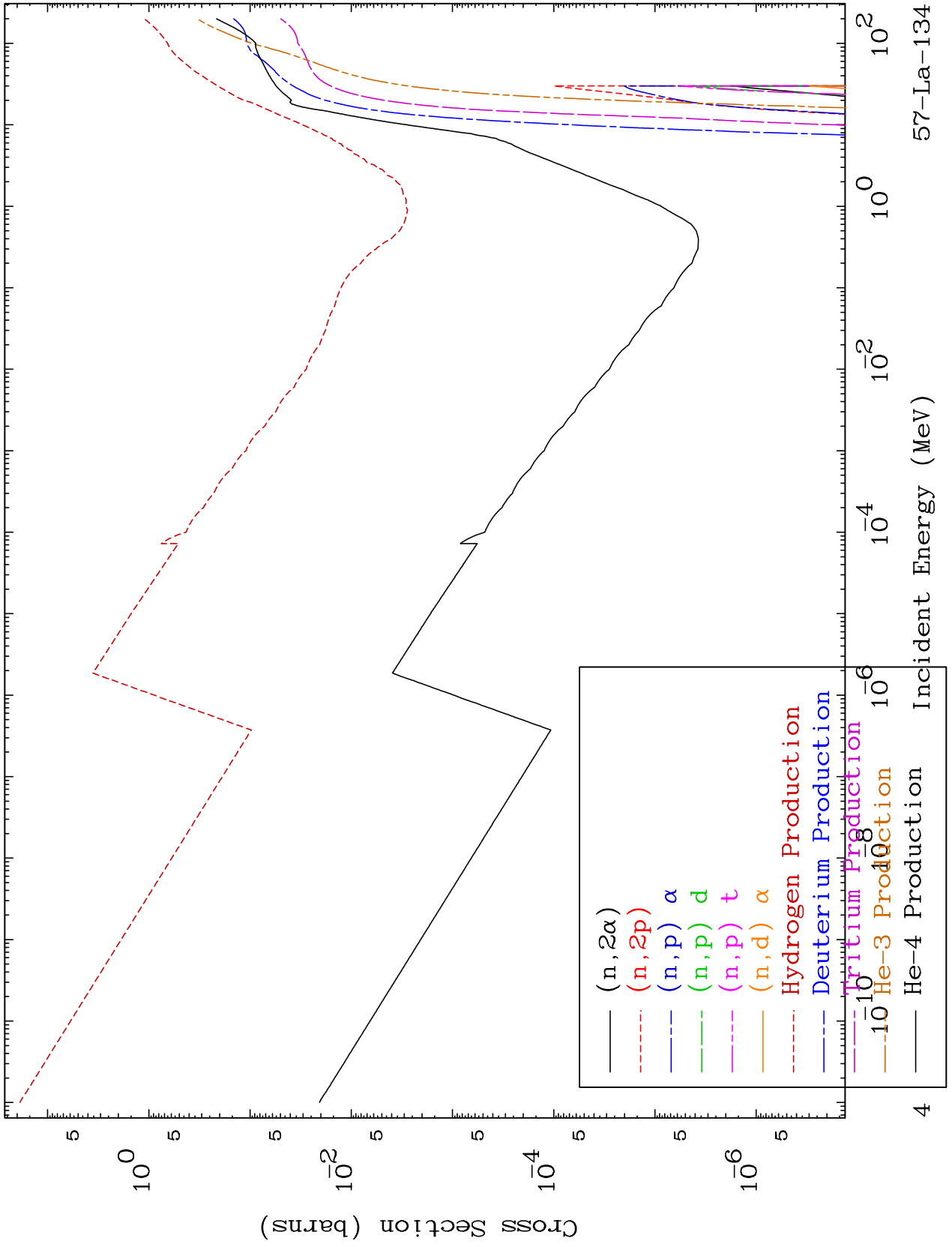
2

MAT 5713

Neutron Absorption  
293 Kelvin Cross Sections

57-La-134

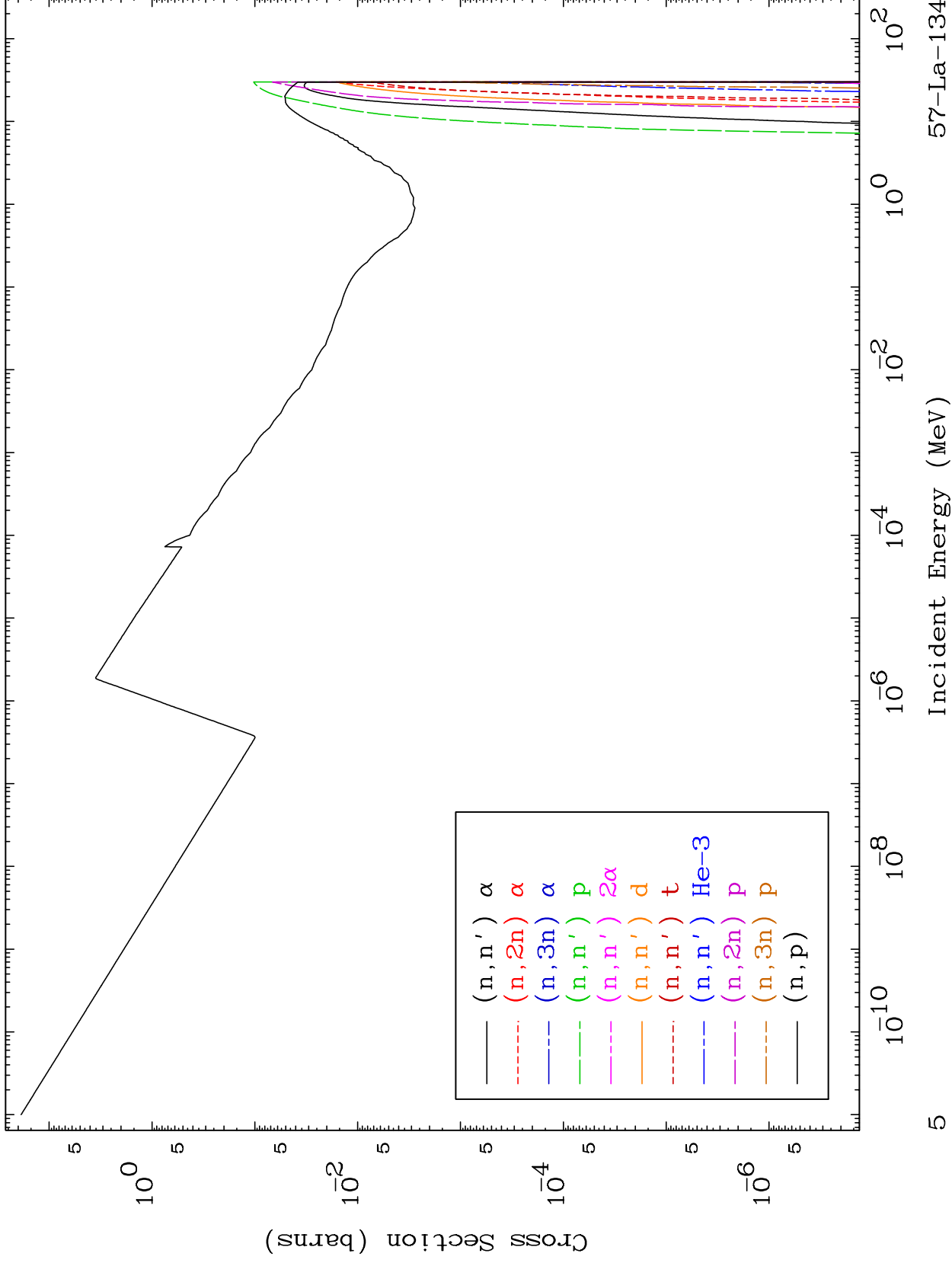




MAT 5713

Charged Particle  
293 Kelvin Cross Sections

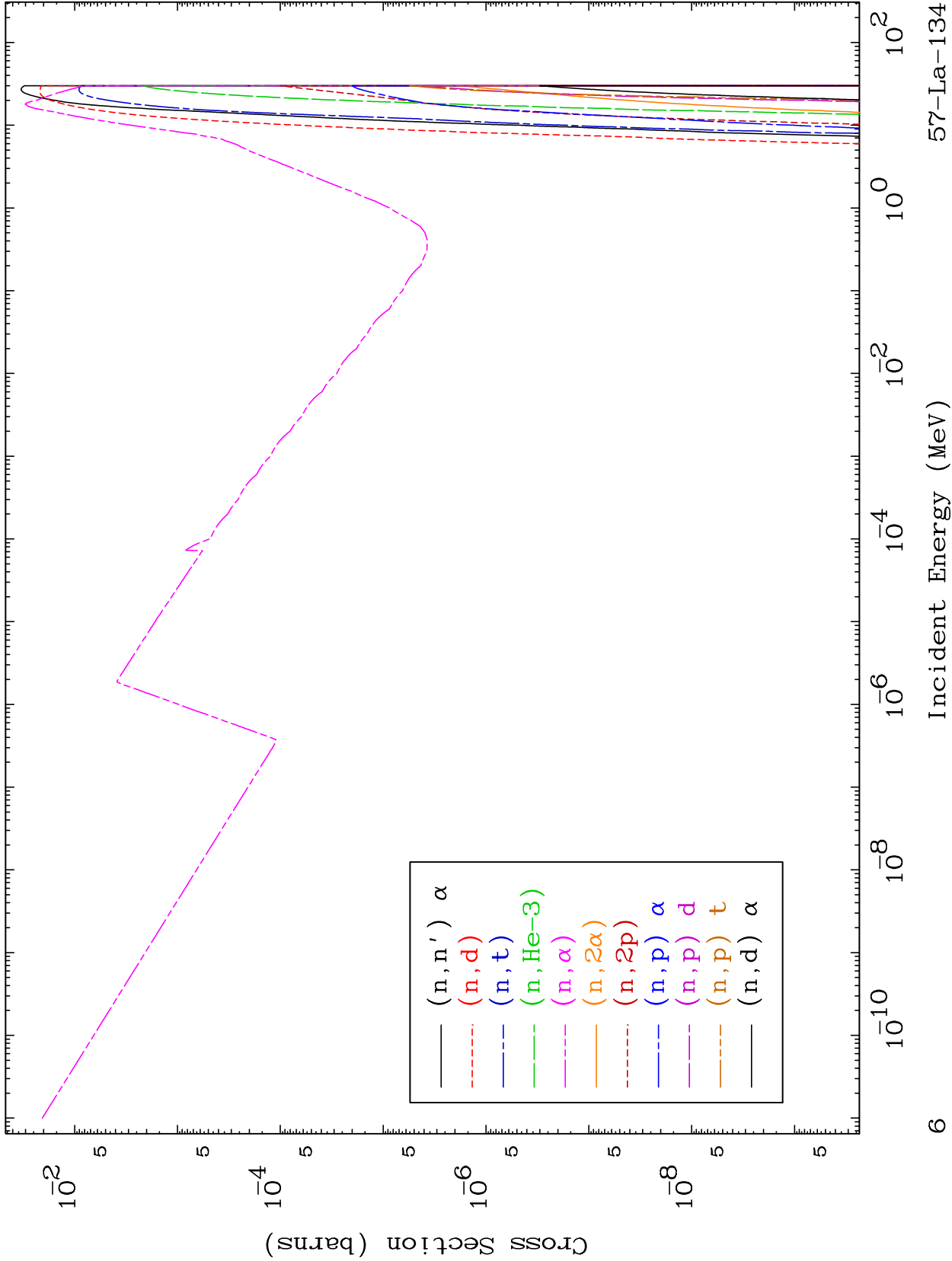
57-La-134



MAT 5713

Charged Particle  
293 Kelvin Cross Sections

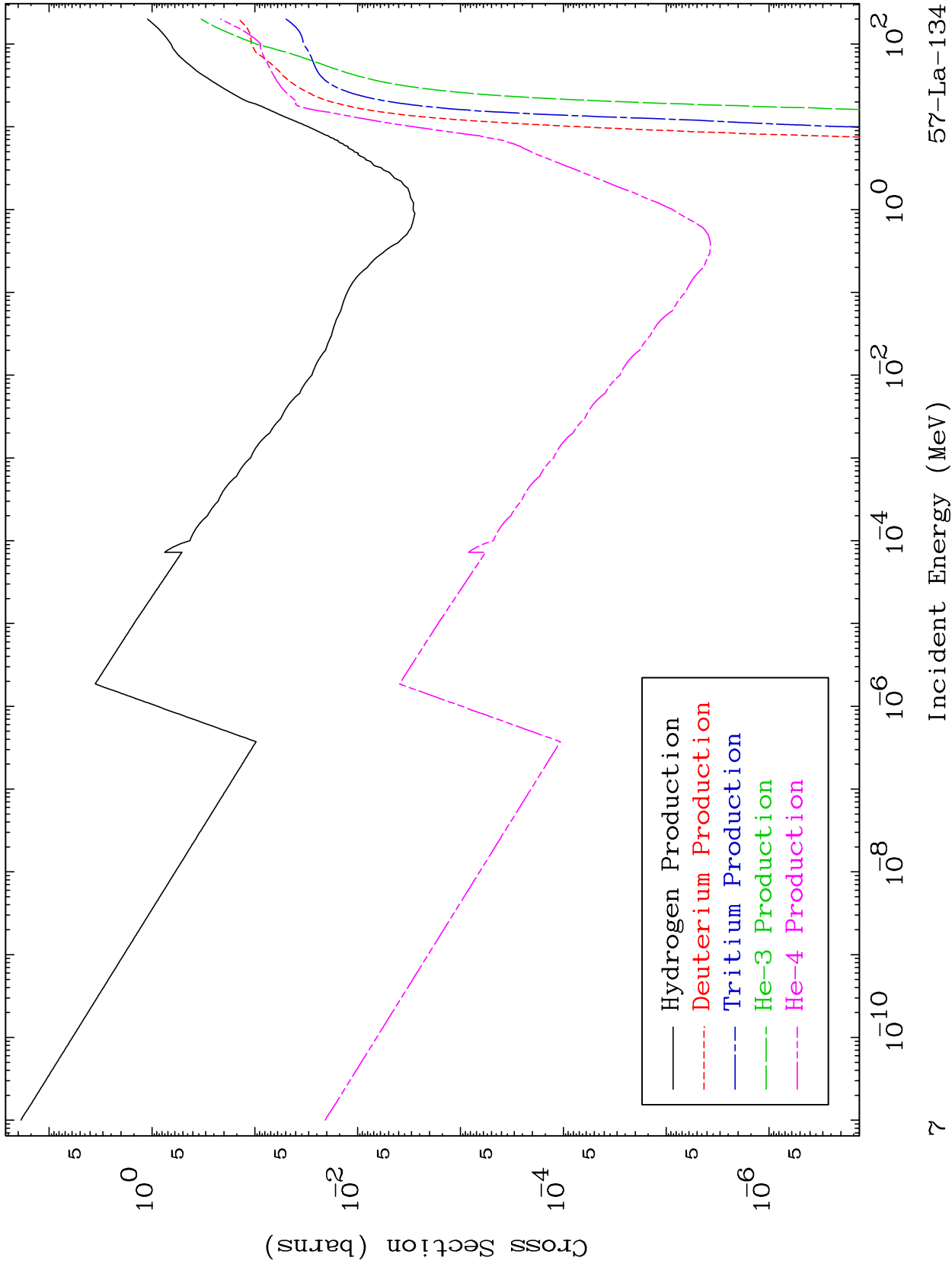
57-La-134



MAT 5713

Particle Production  
293 Kelvin Cross Sections

57-La-134

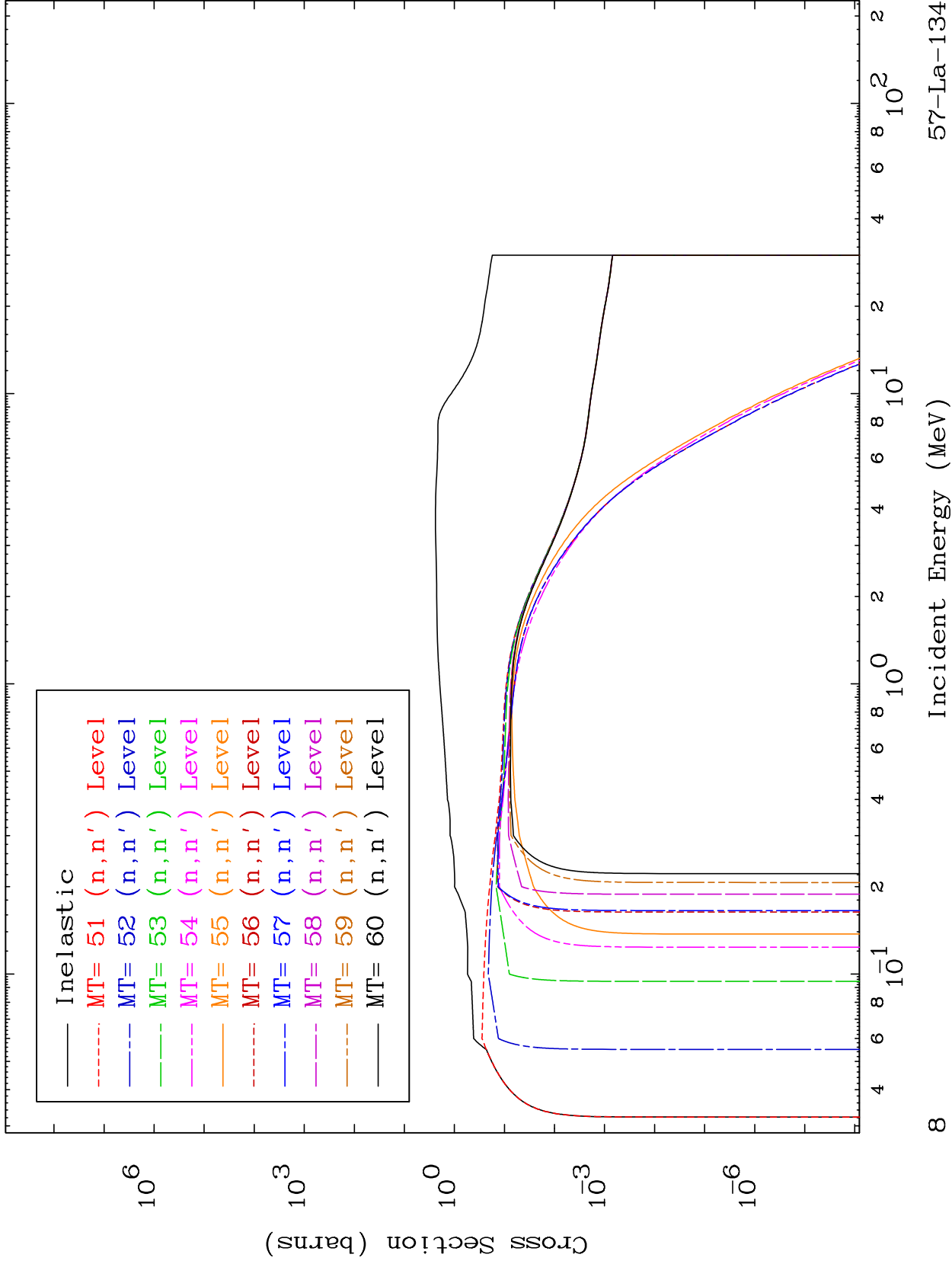


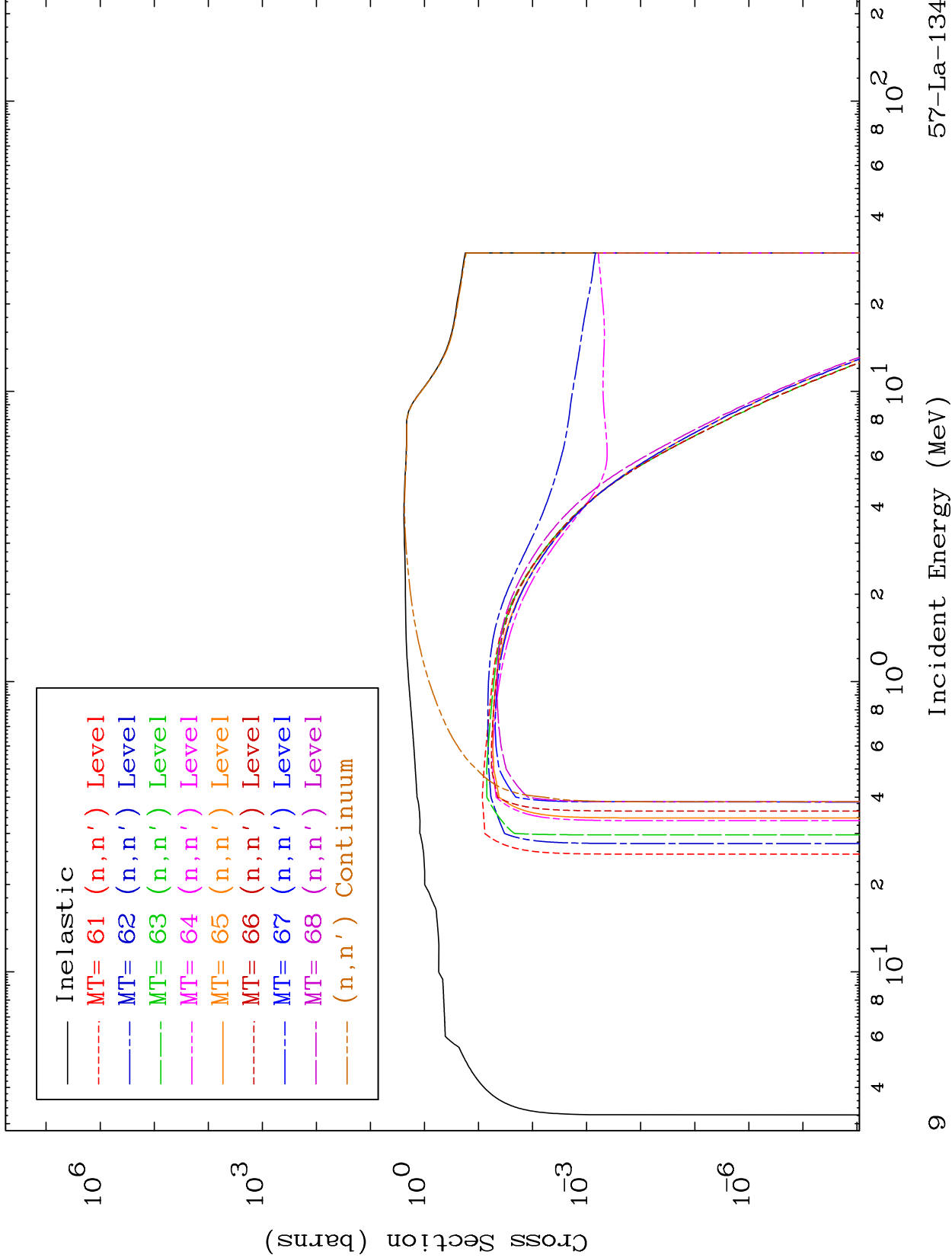


MAT 5713

(n,n') Levels  
293 Kelvin Cross Sections

57-La-134

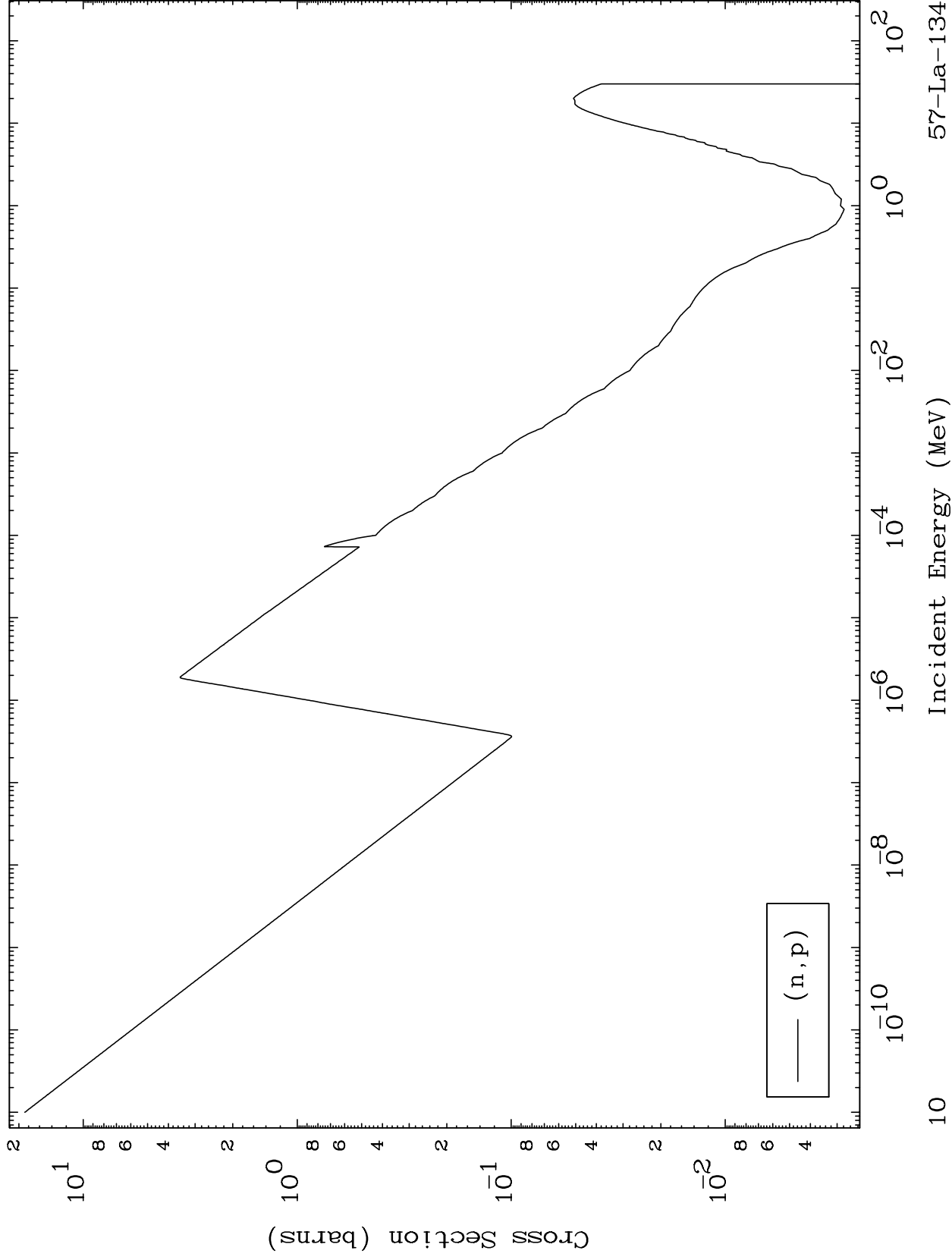




MAT 5713

(n,p) Levels  
293 Kelvin Cross Sections

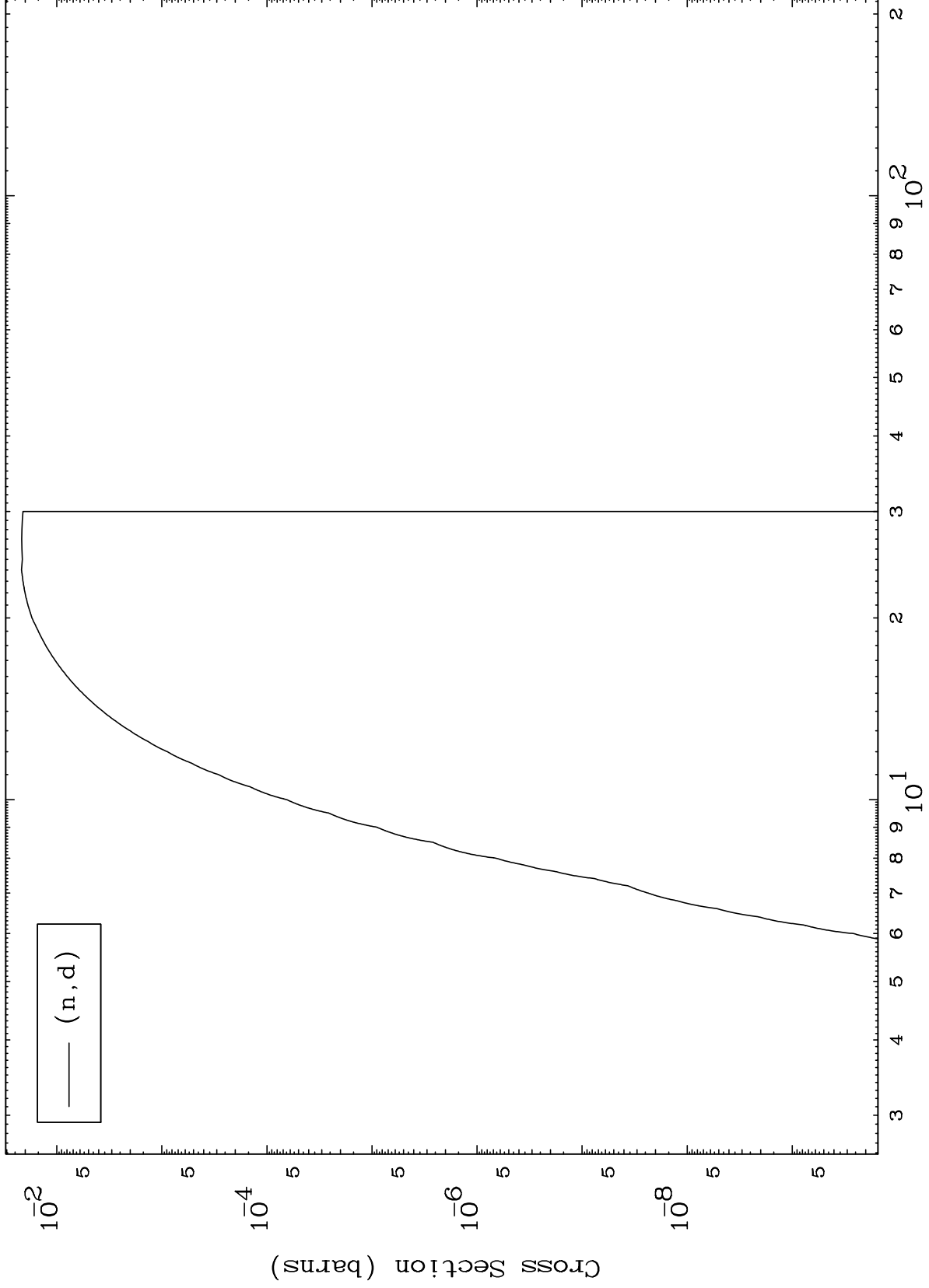
57-La-134



MAT 5713

(n,d) Levels  
293 Kelvin Cross Sections

57-La-134



11

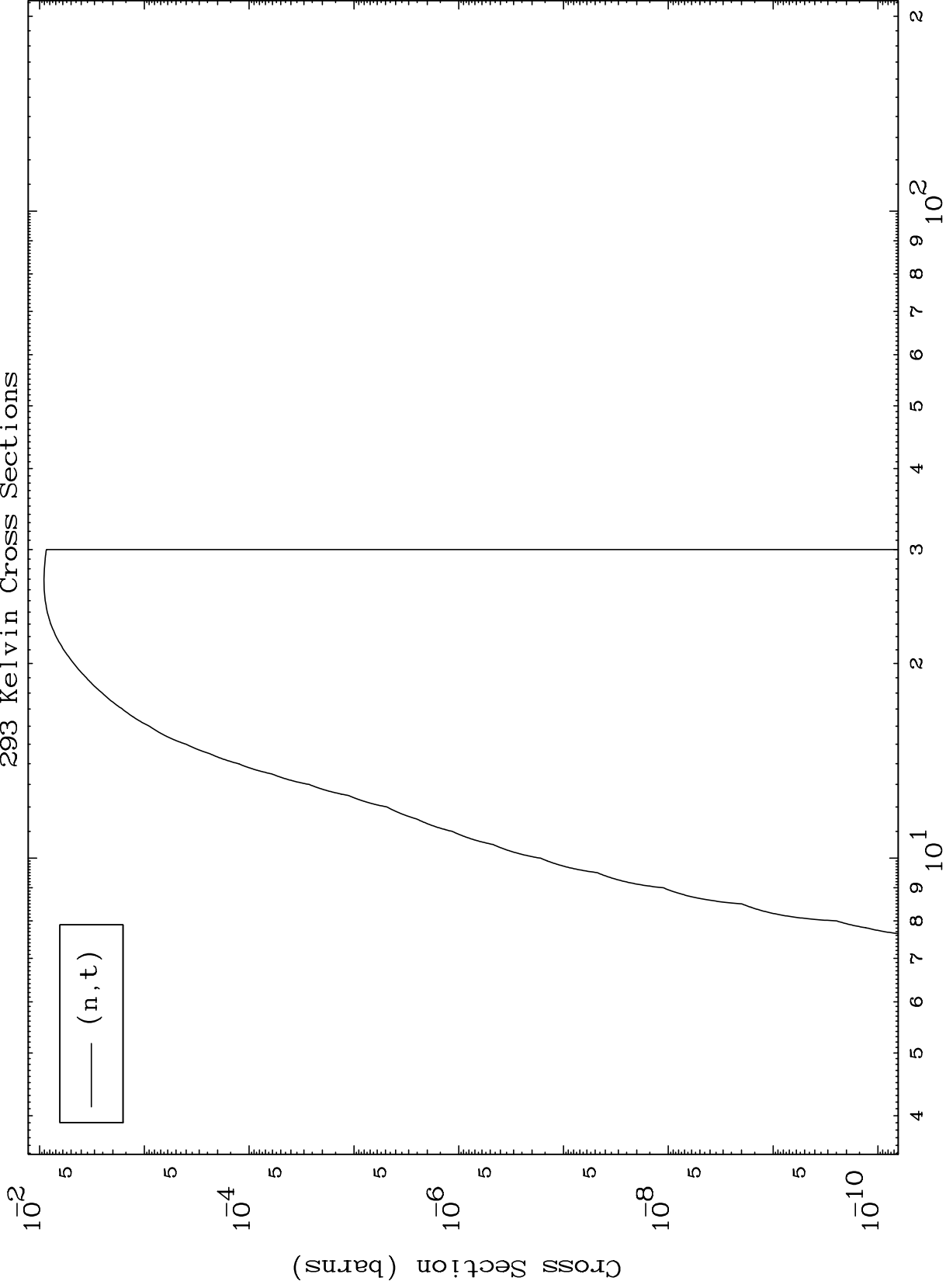
Incident Energy (MeV)

57-La-134

MAT 5713

(n,t) Levels  
293 Kelvin Cross Sections

57-La-134



12

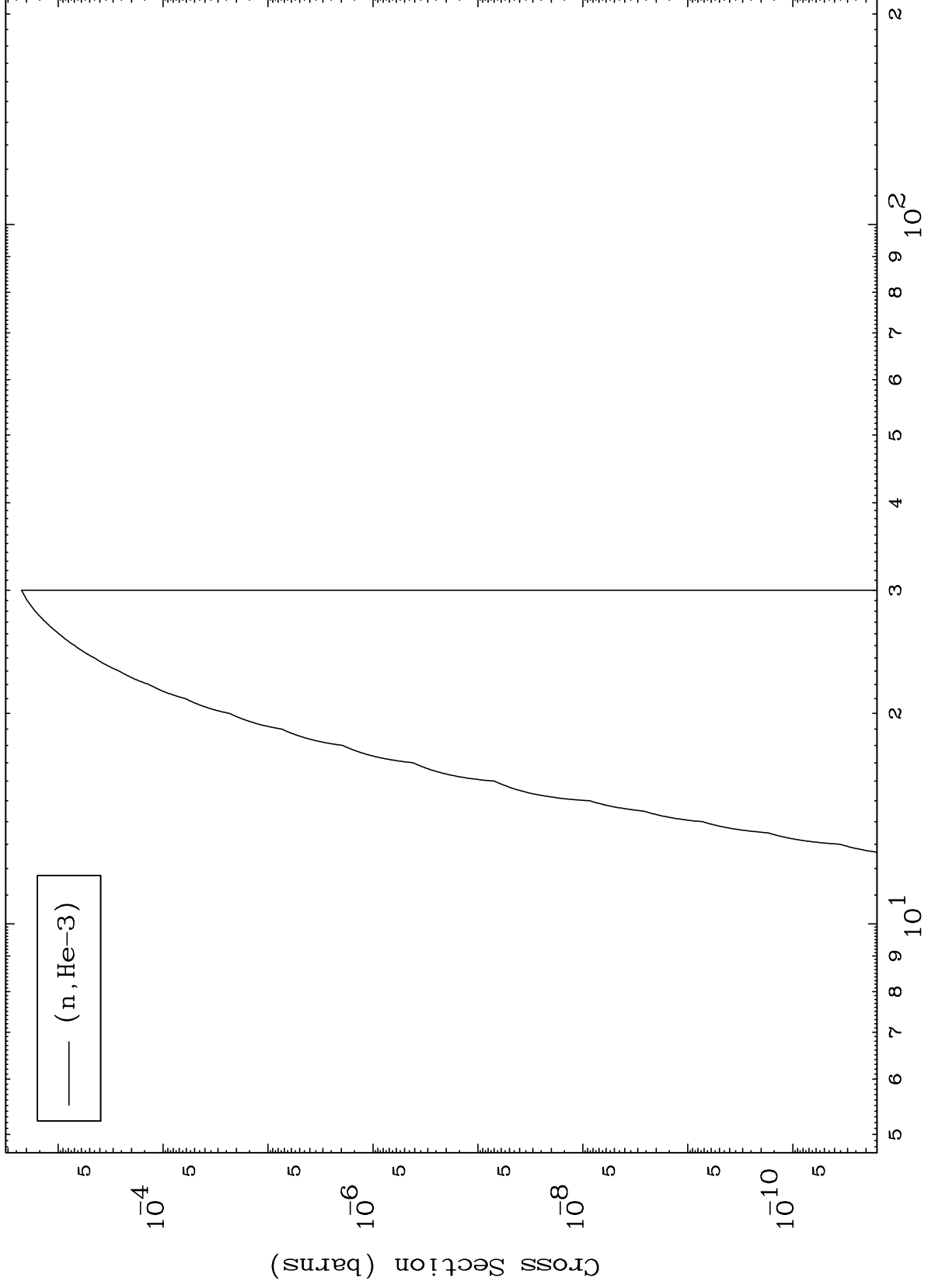
Incident Energy (MeV)

57-La-134

MAT 5713

(n,He3) Levels  
293 Kelvin Cross Sections

57-La-134



13

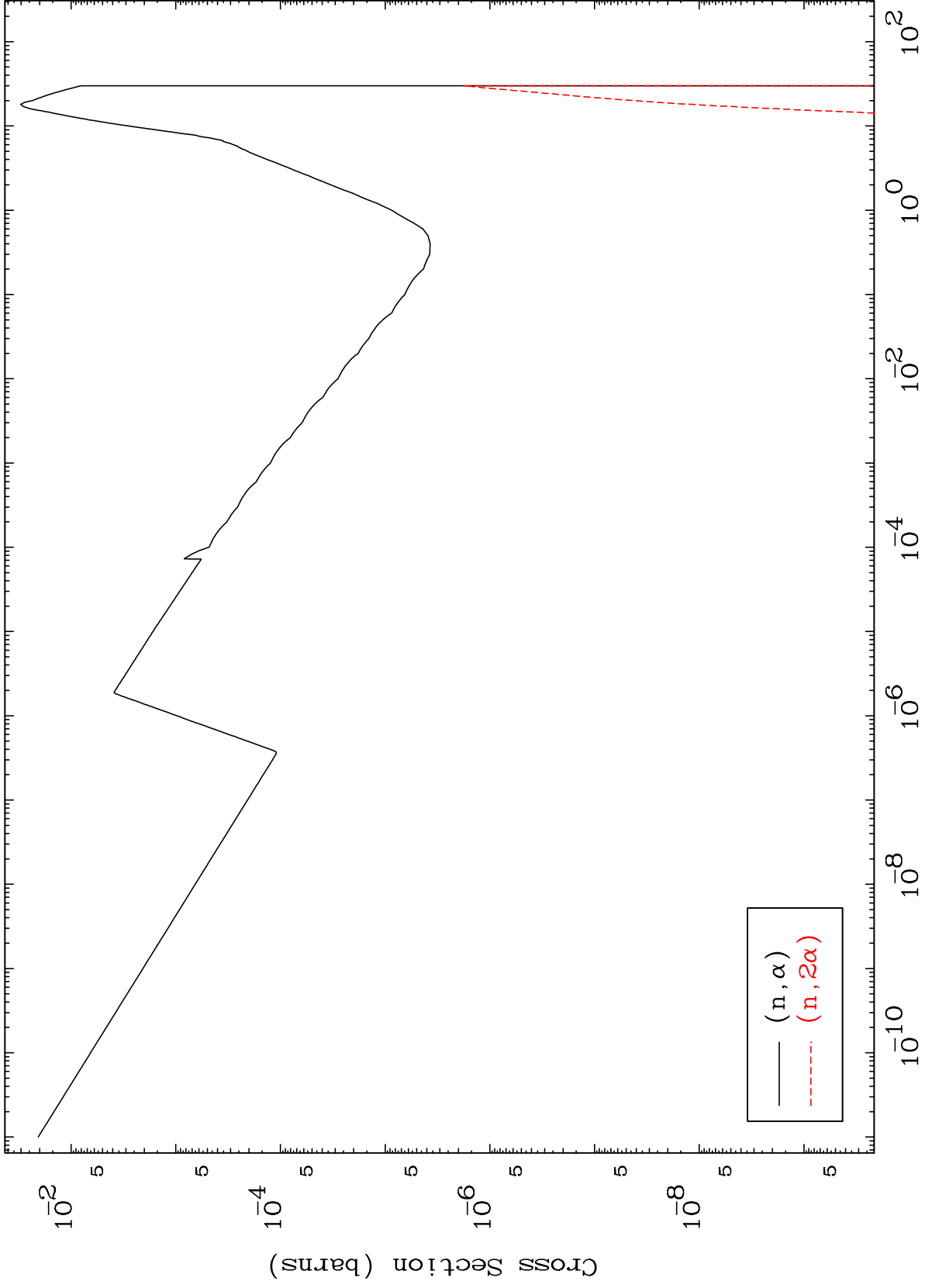
Incident Energy (MeV)

57-La-134

MAT 5713

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

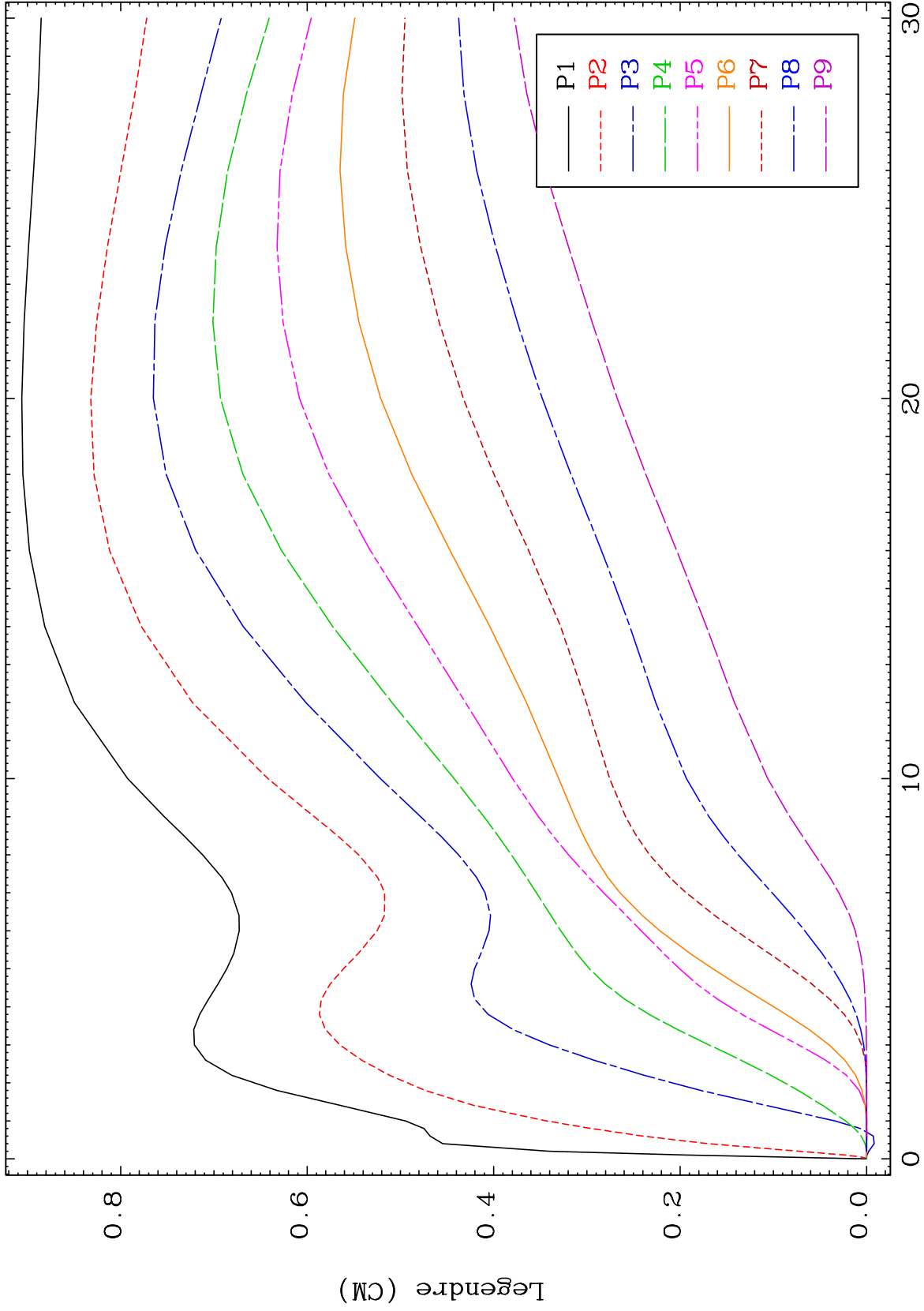
57-La-134



MAT 5713

Elastic Legendre Coefficients

57-La-134



15

Incident Energy (MeV)

57-La-134

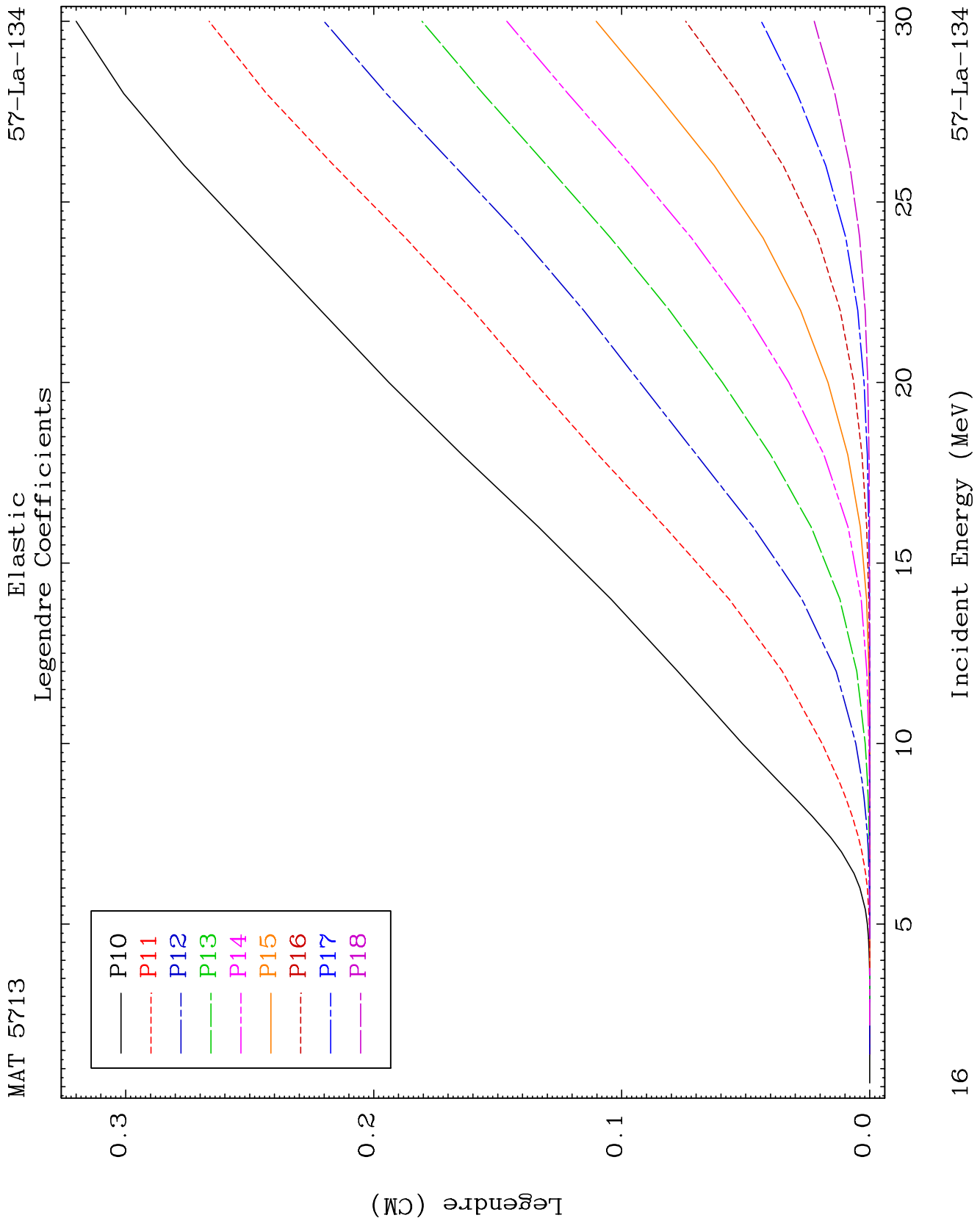
30

20

10

0

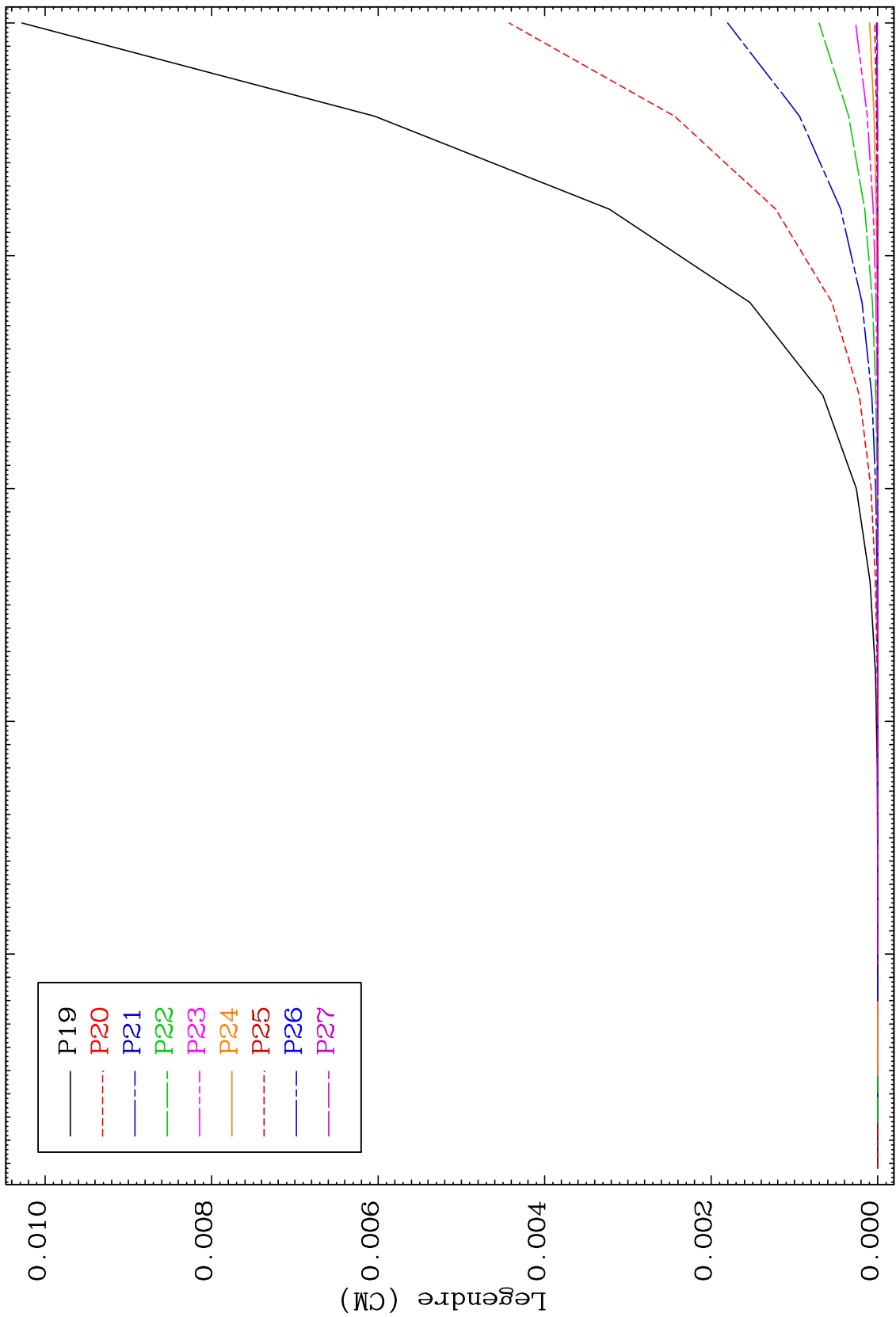




MAT 5713

Elastic Legendre Coefficients

57-La-134



17

Incident Energy (MeV)

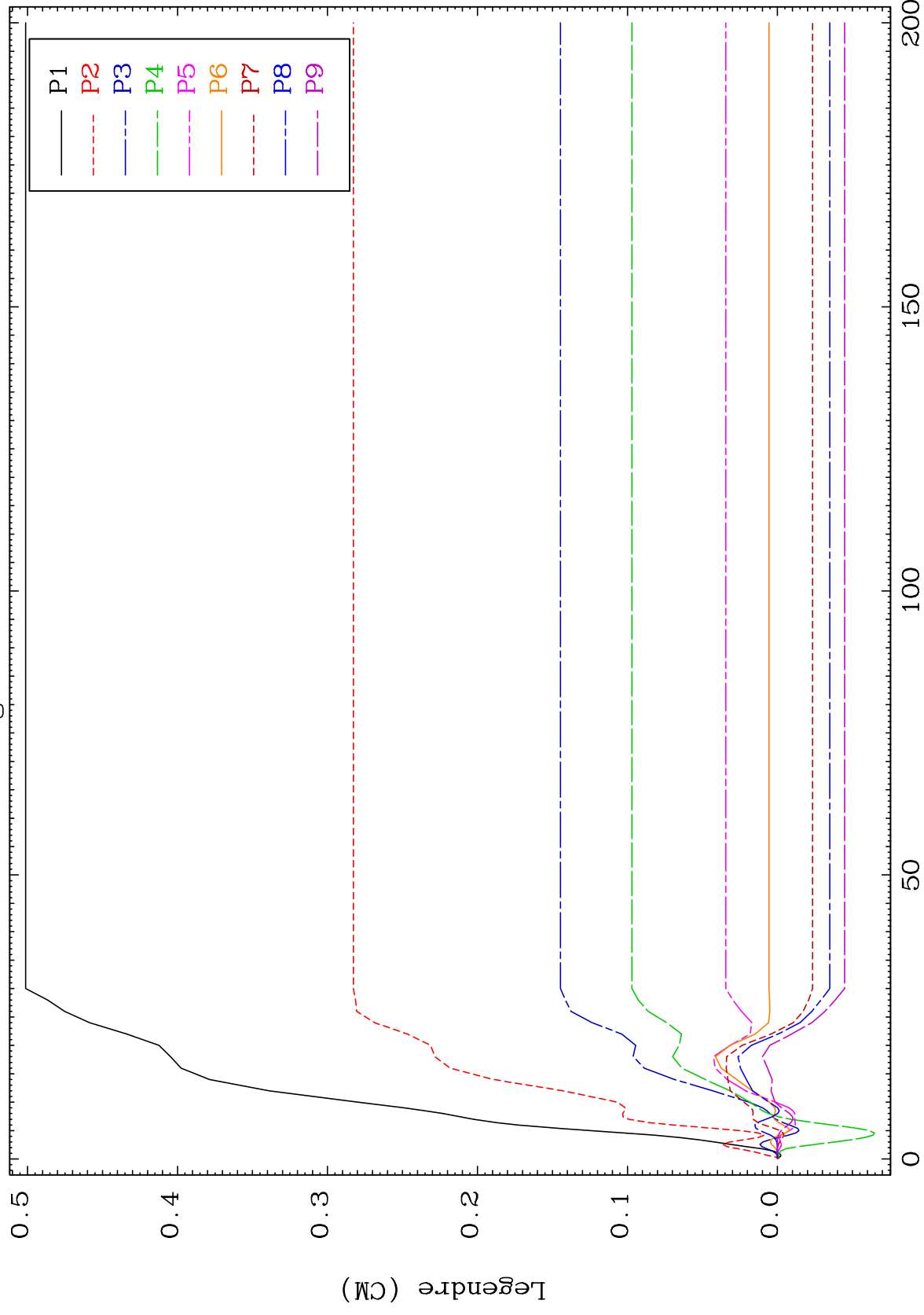
57-La-134



MAT 5713

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

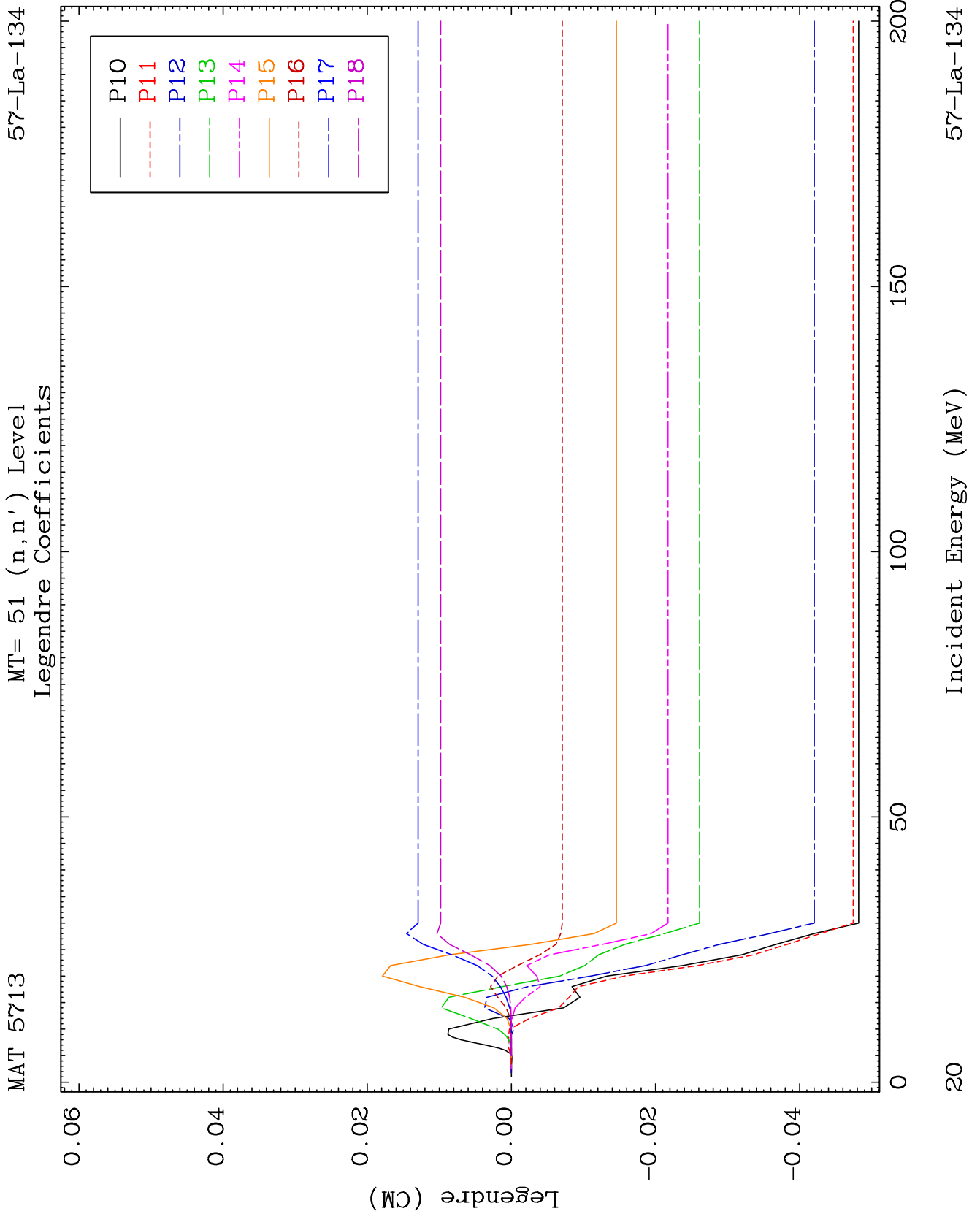
57-La-134



19

Incident Energy (MeV)

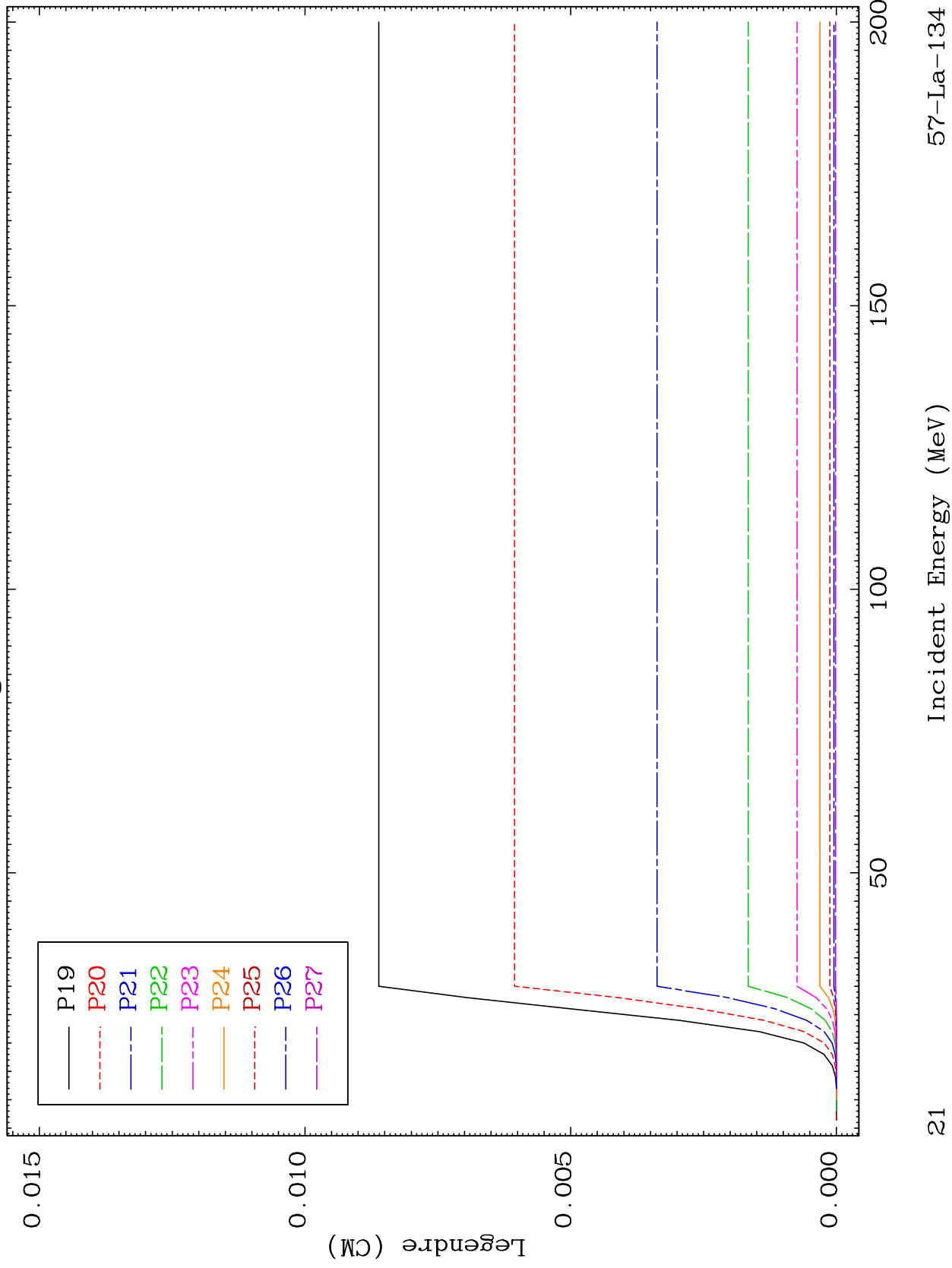
57-La-134



MAT 5713

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

57-La-134



21

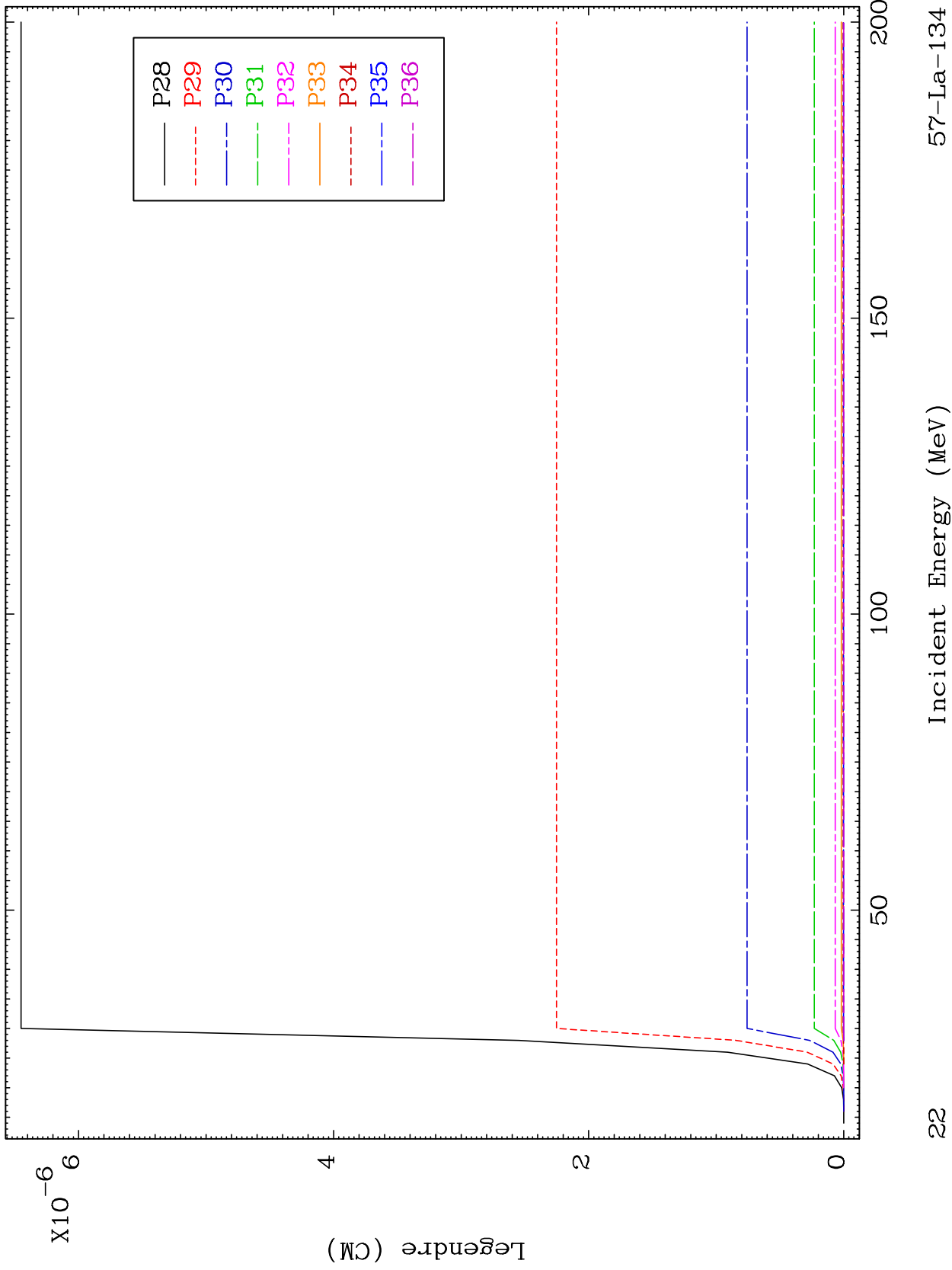
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



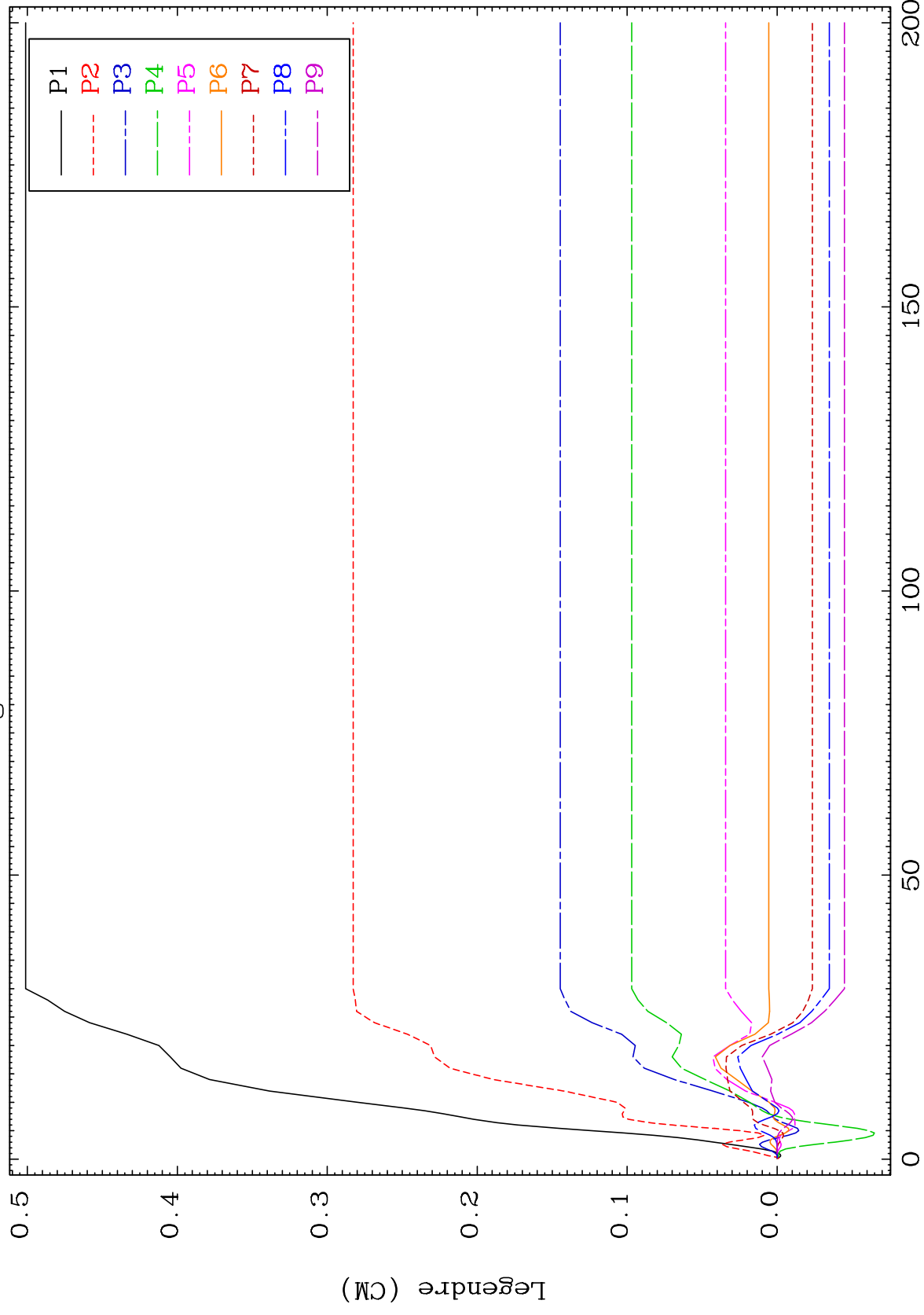
22

57-La-134

MAT 5713

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

57-La-134



23

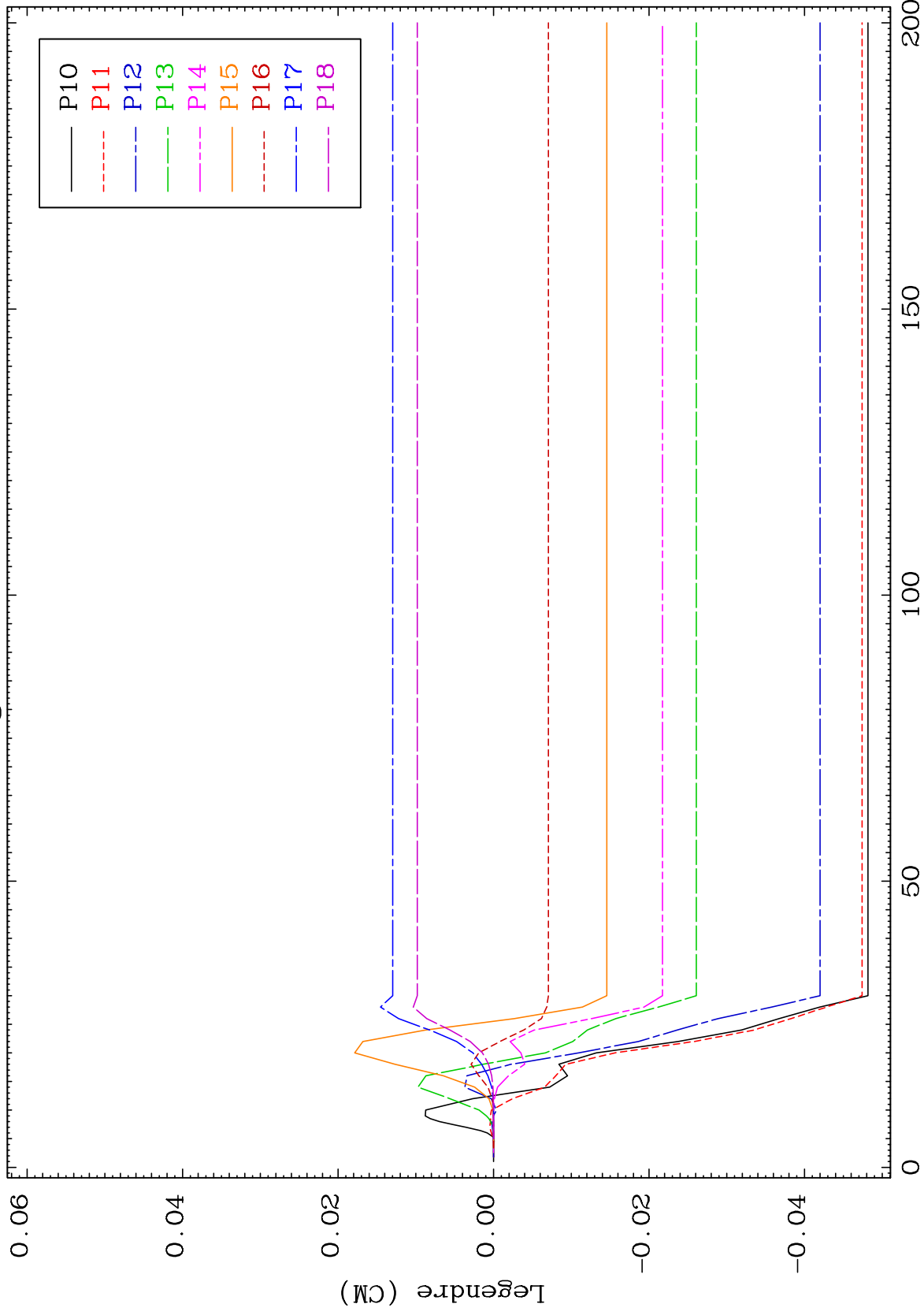
57-La-134



MAT 5713

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

57-La-134



24

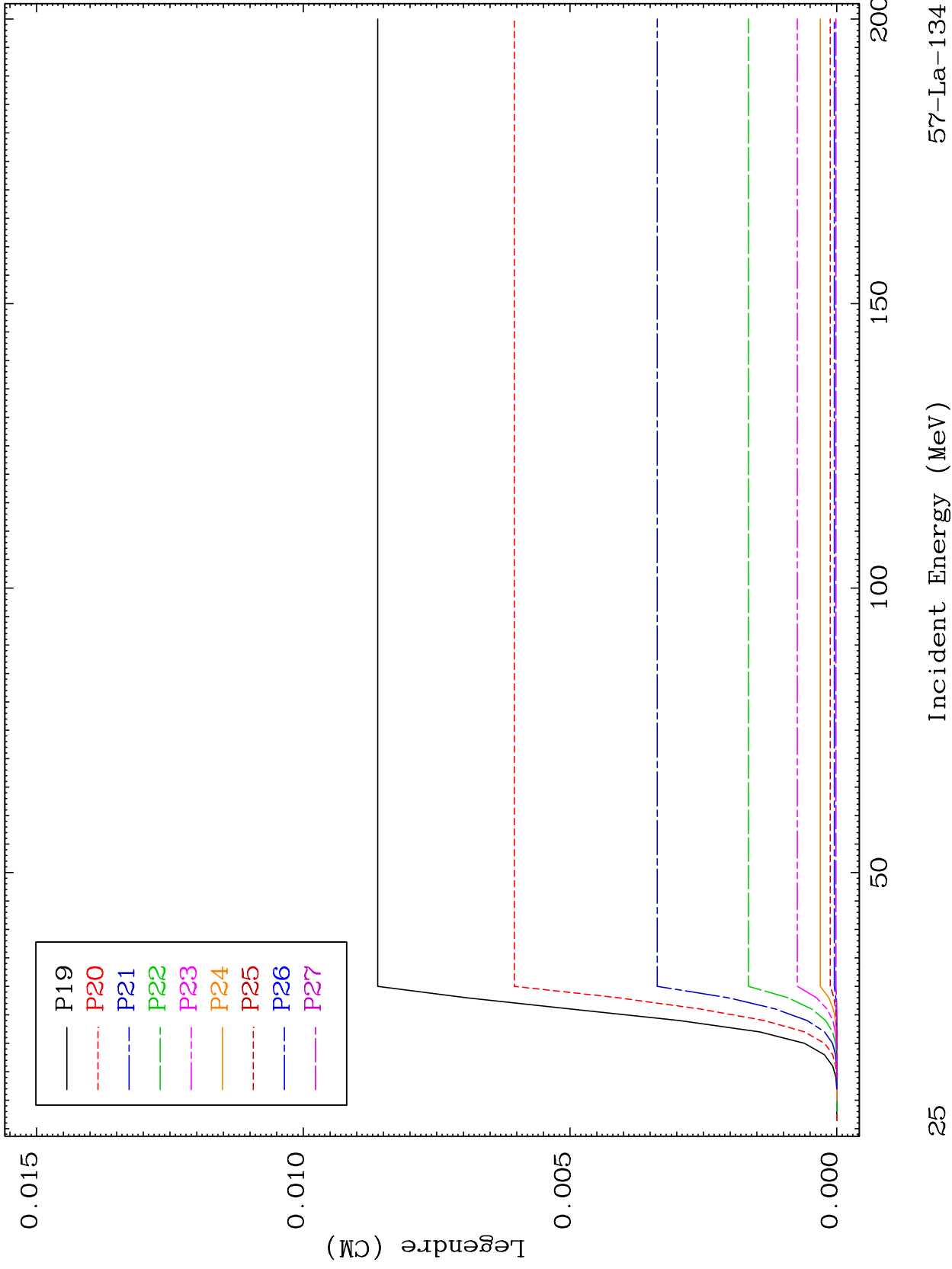
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



25

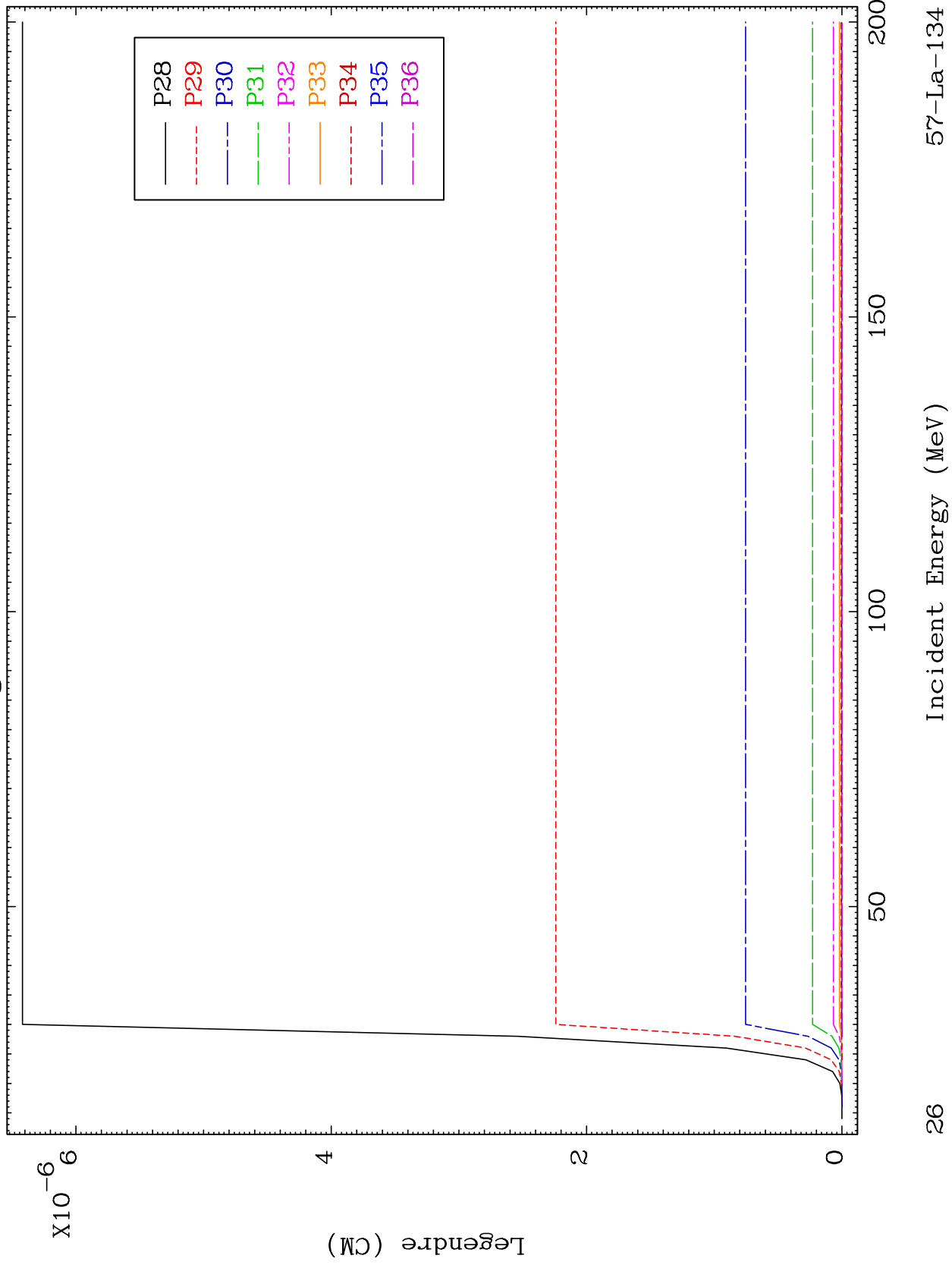
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



26

Incident Energy (MeV)

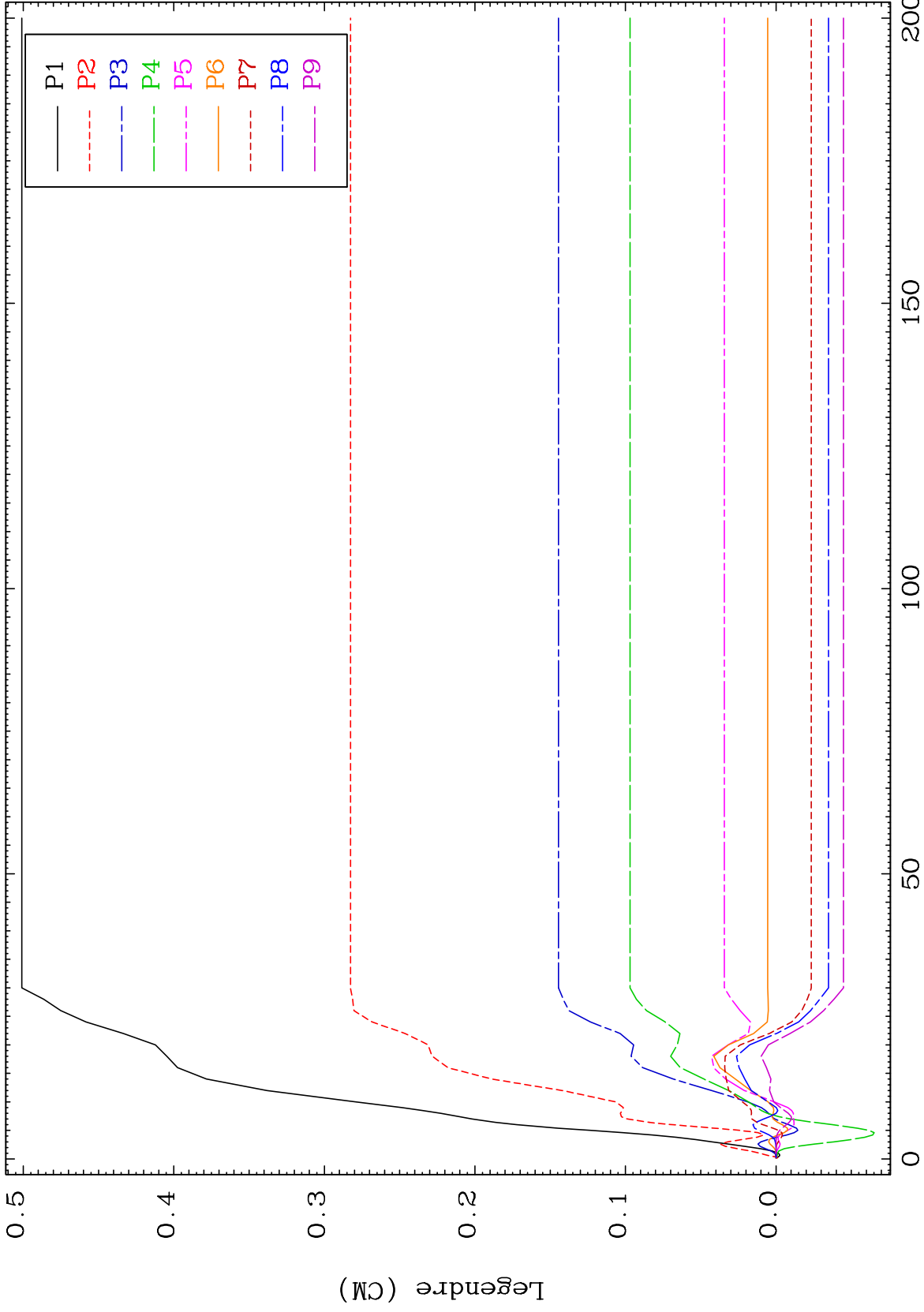
57-La-134

MAT 5713

MT= 53 (n,n') Level

57-La-134

Legendre Coefficients



27

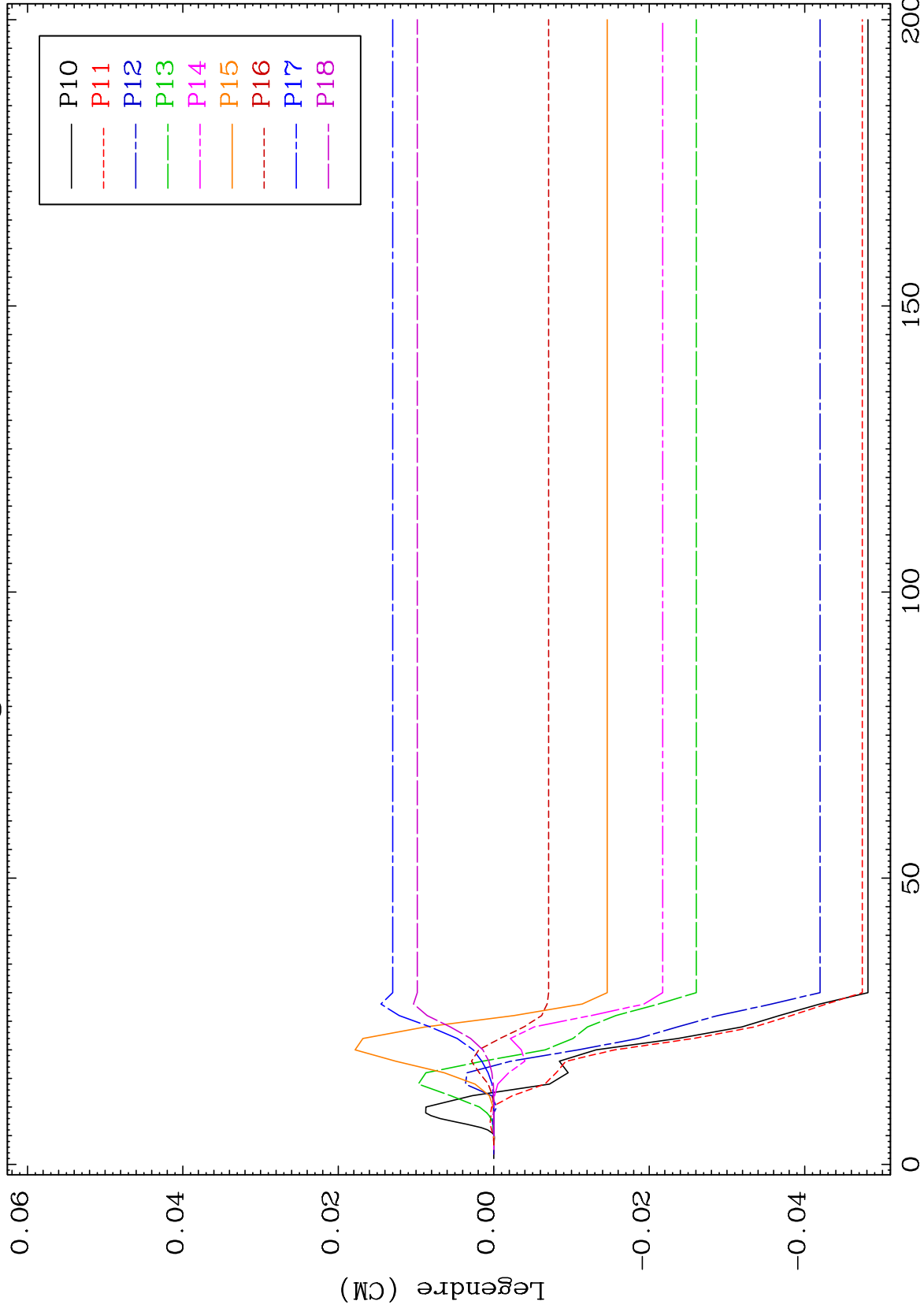
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



28

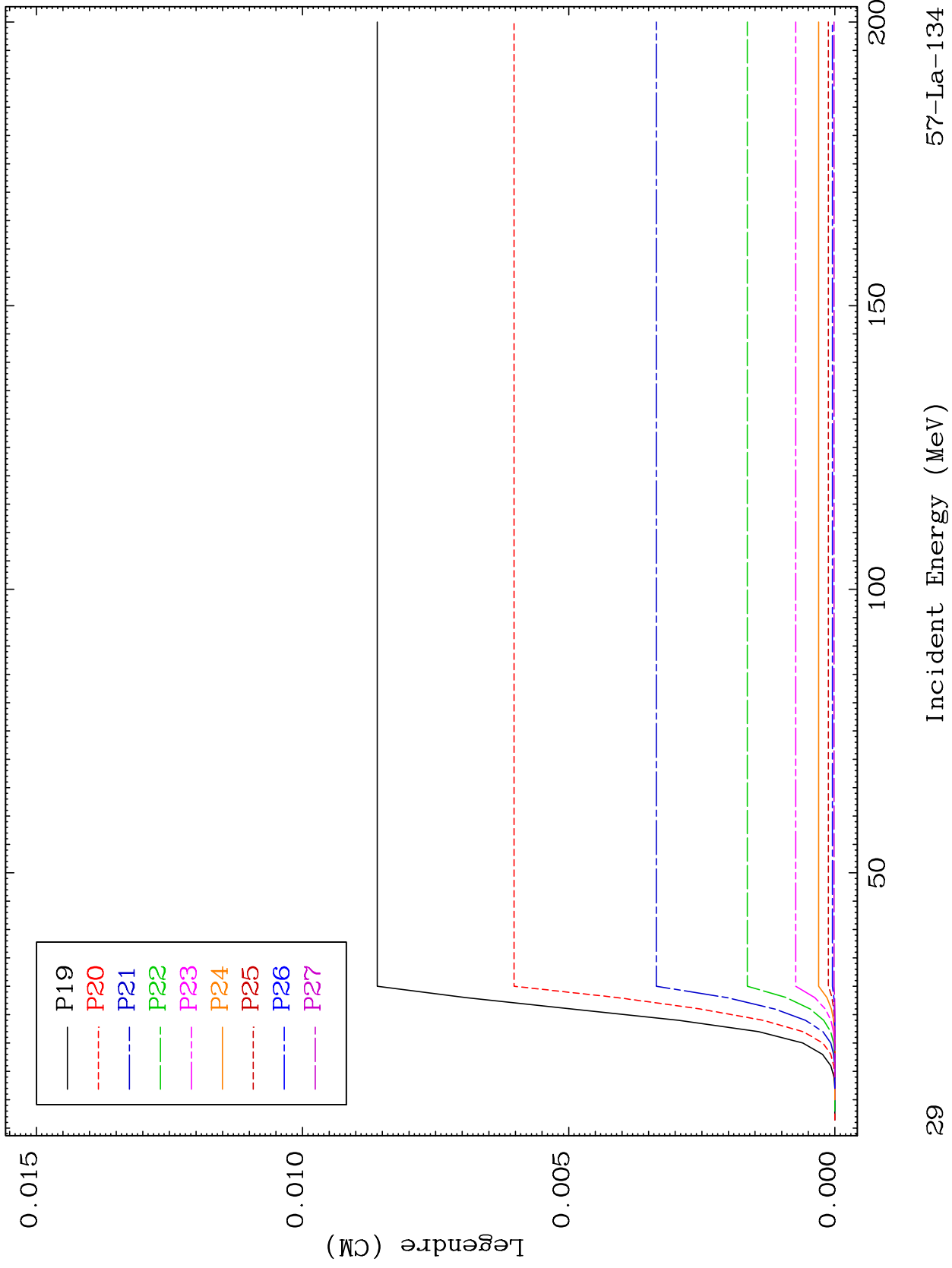
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



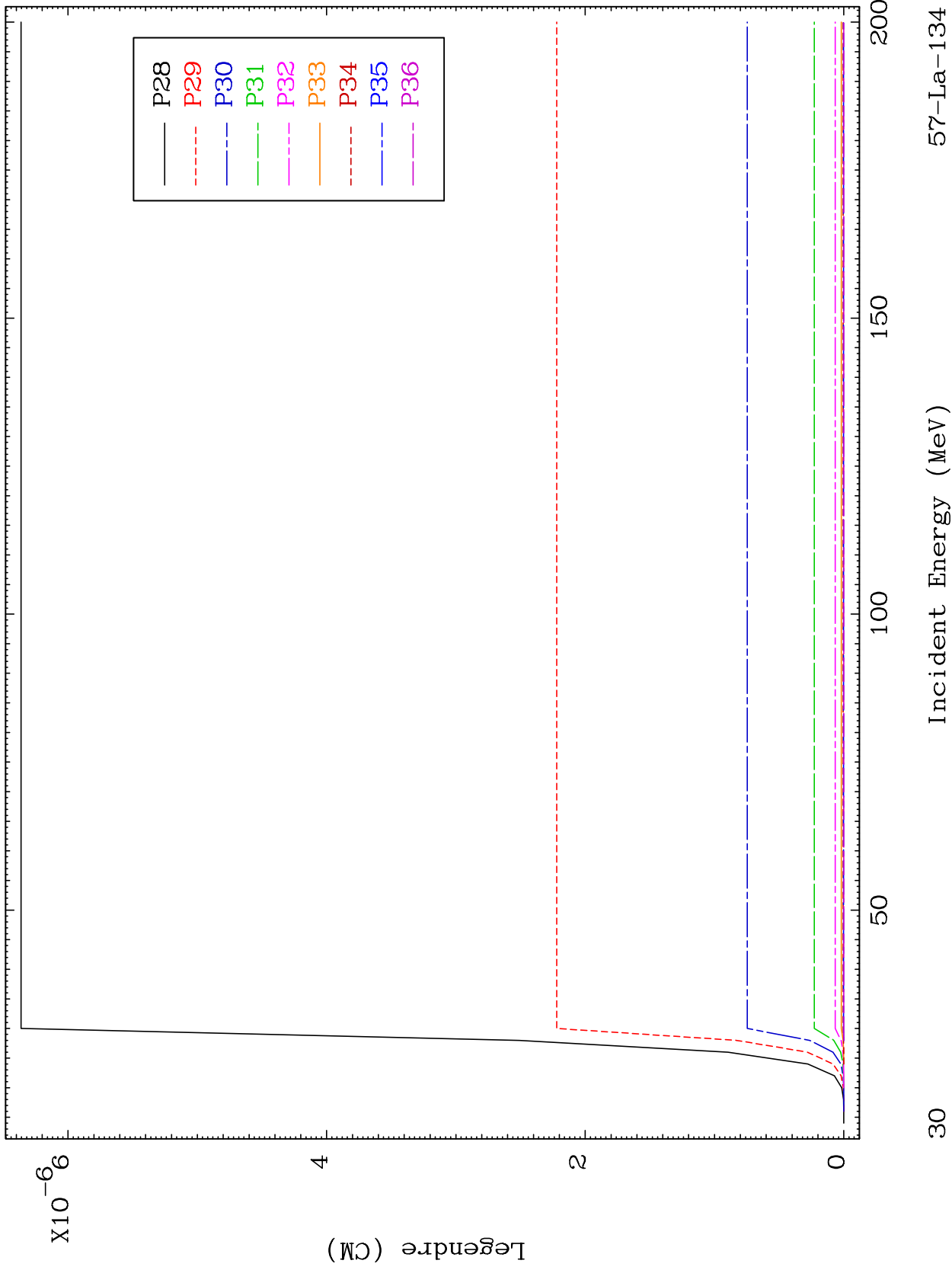
29

57-La-134

MAT 5713

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

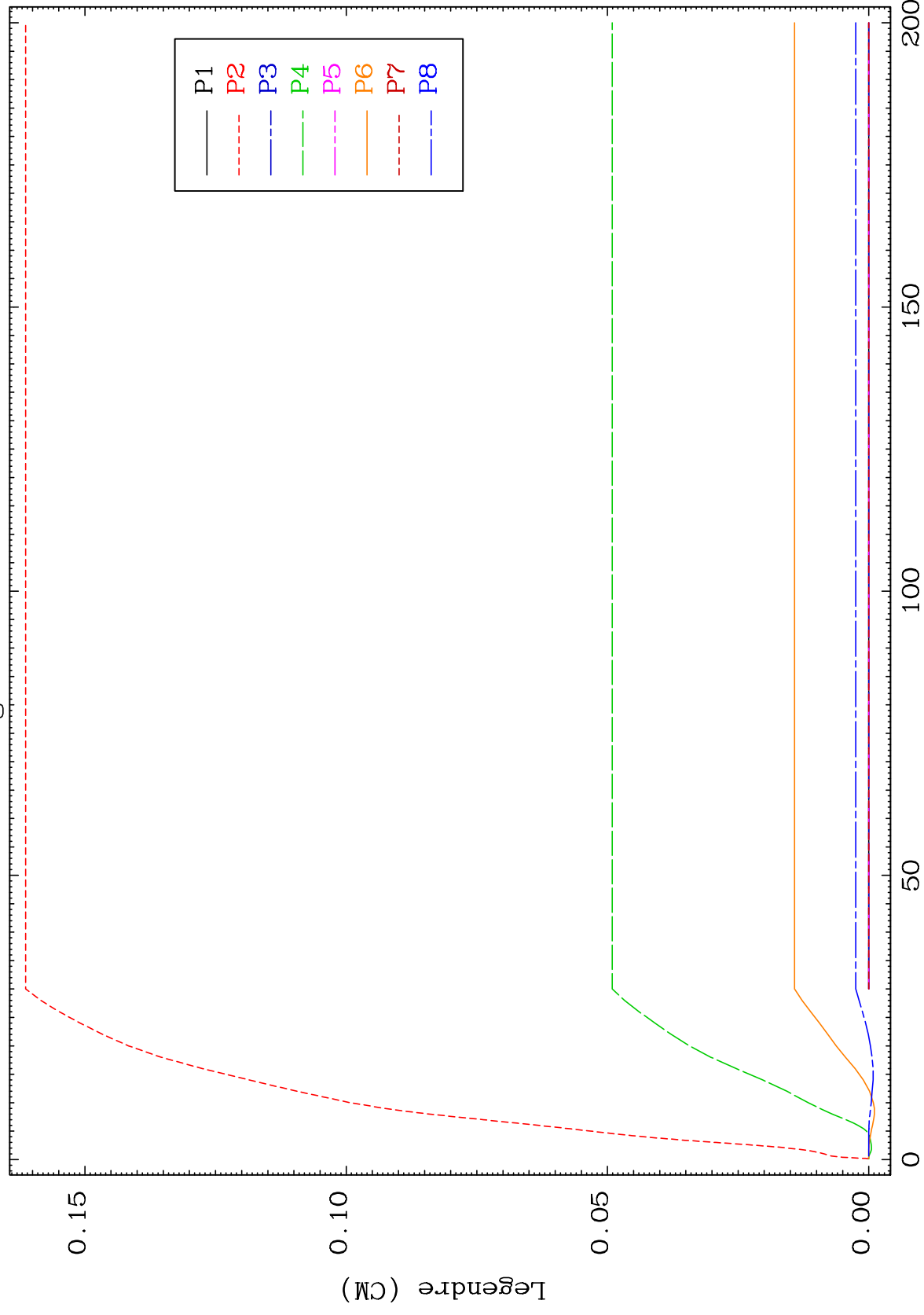
57-La-134



MAT 5713

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

57-La-134



31

Incident Energy (MeV)

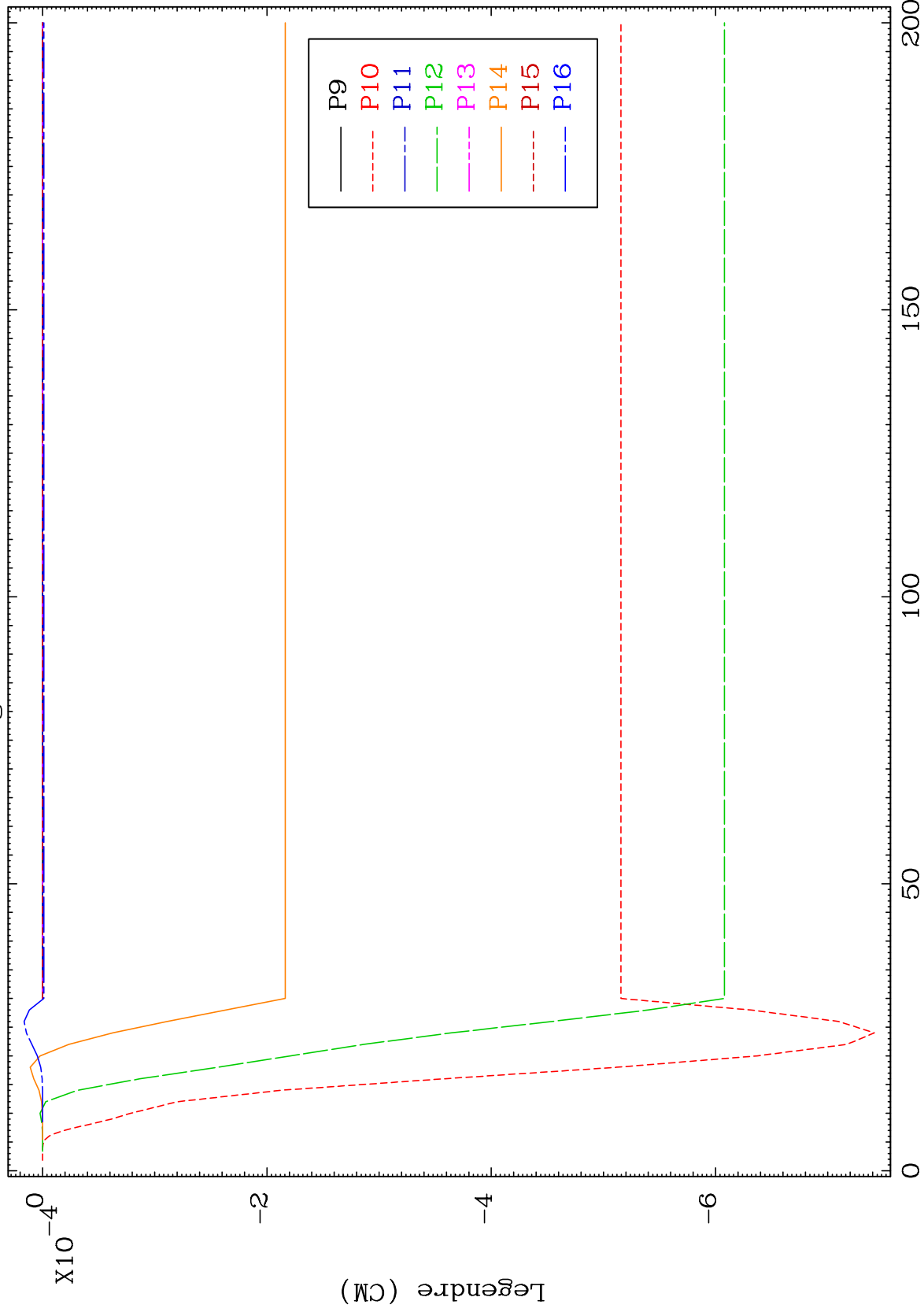
57-La-134



MAT 5713

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

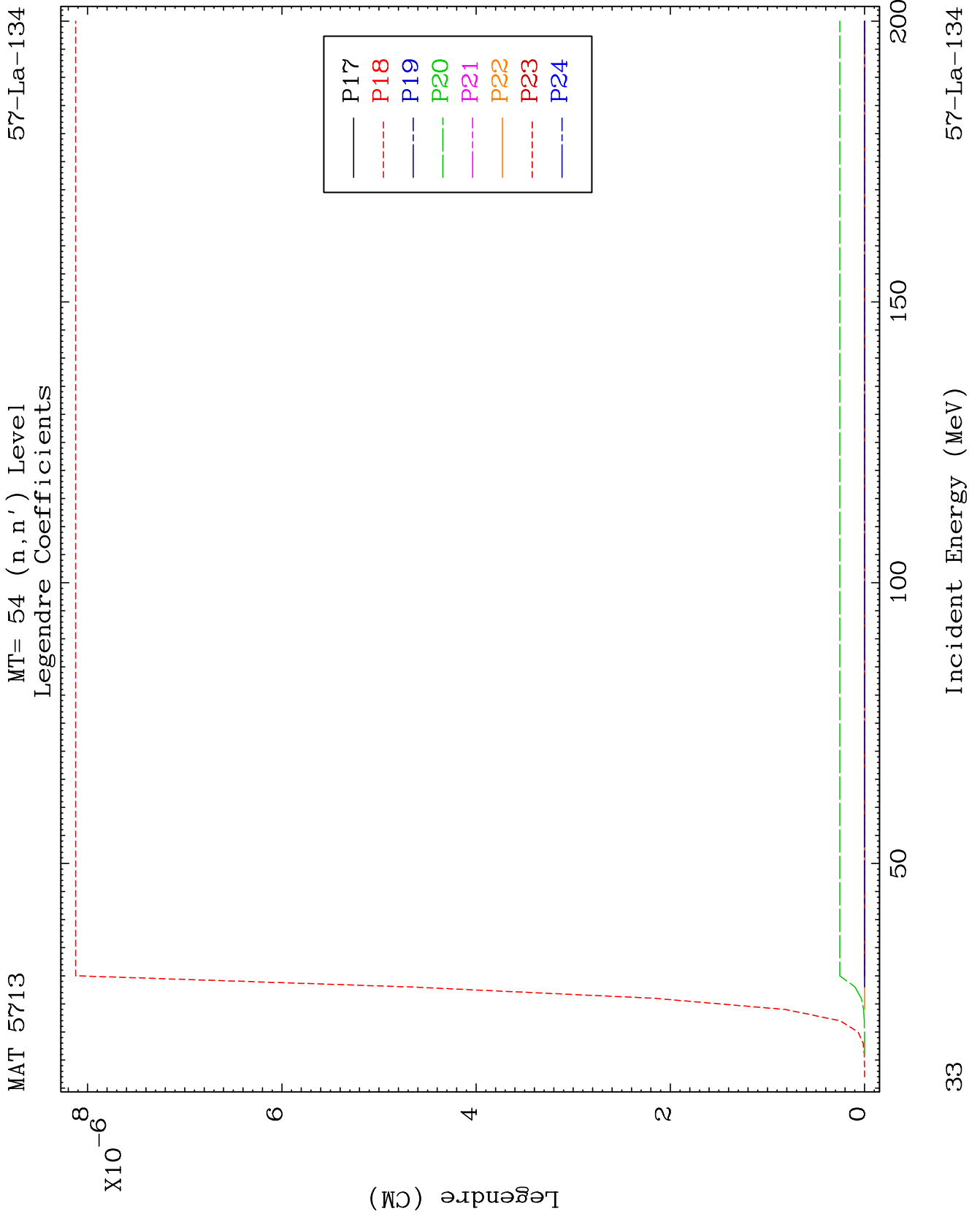
57-La-134



32

Incident Energy (MeV)

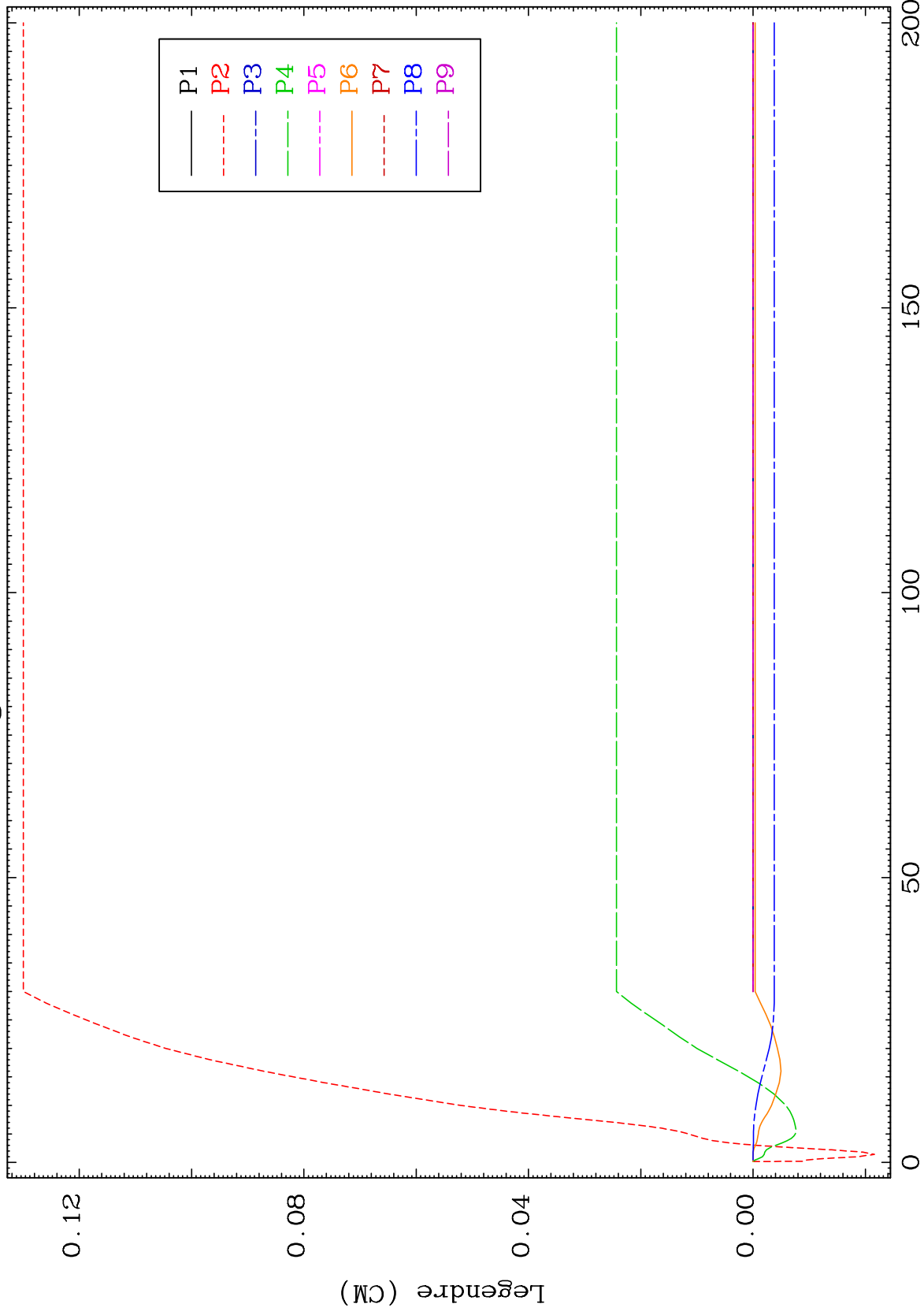
57-La-134



MAT 5713

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

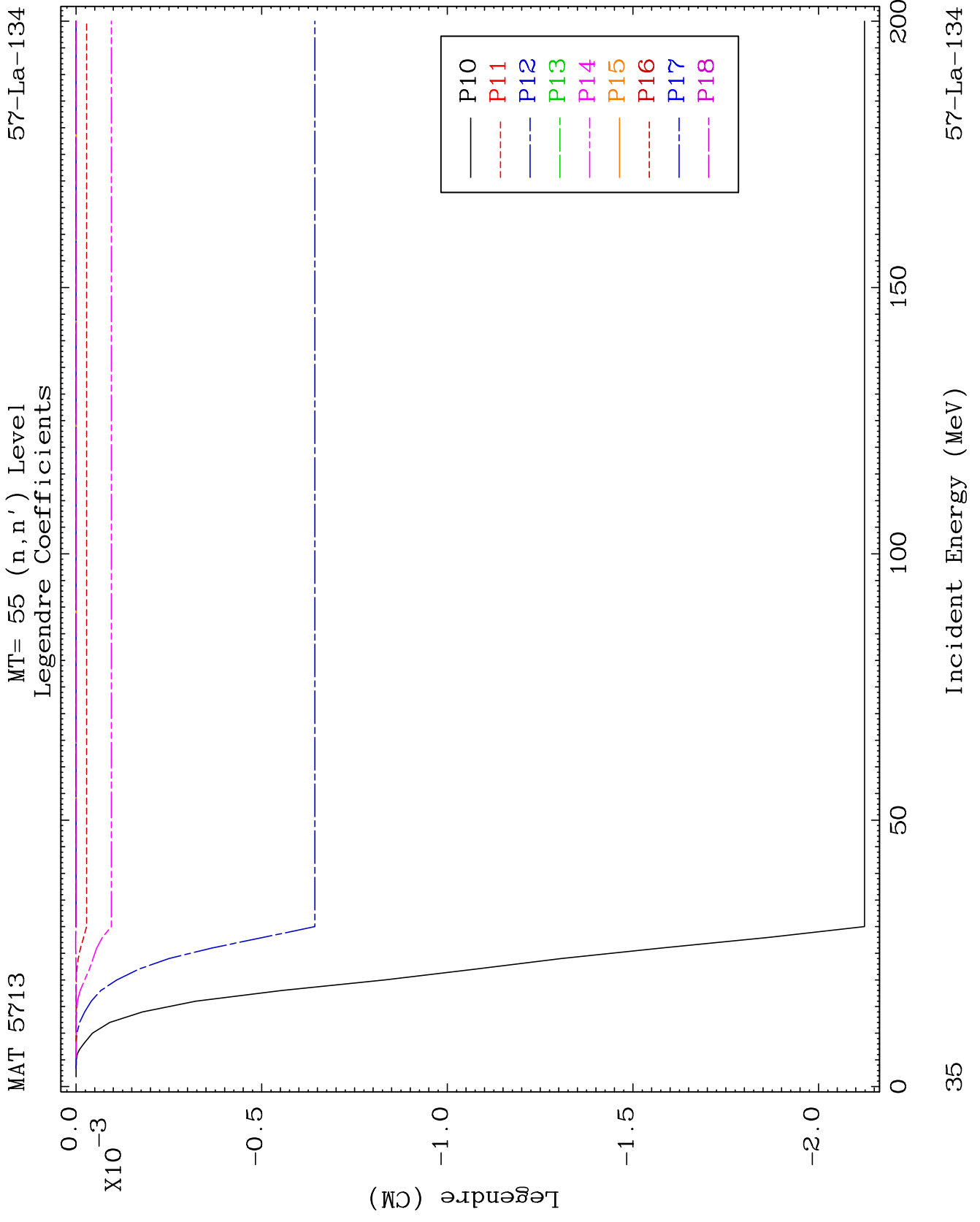
57-La-134

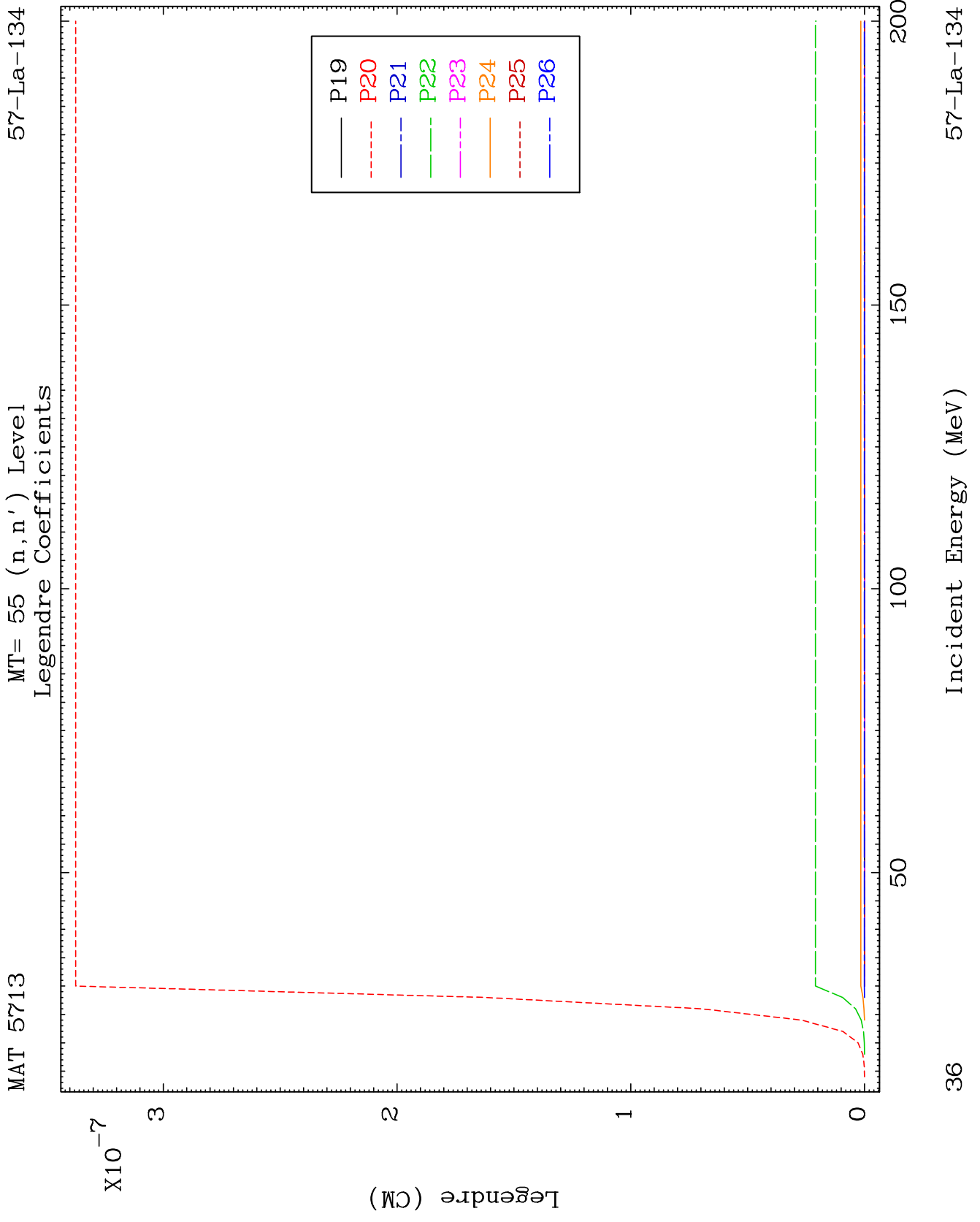


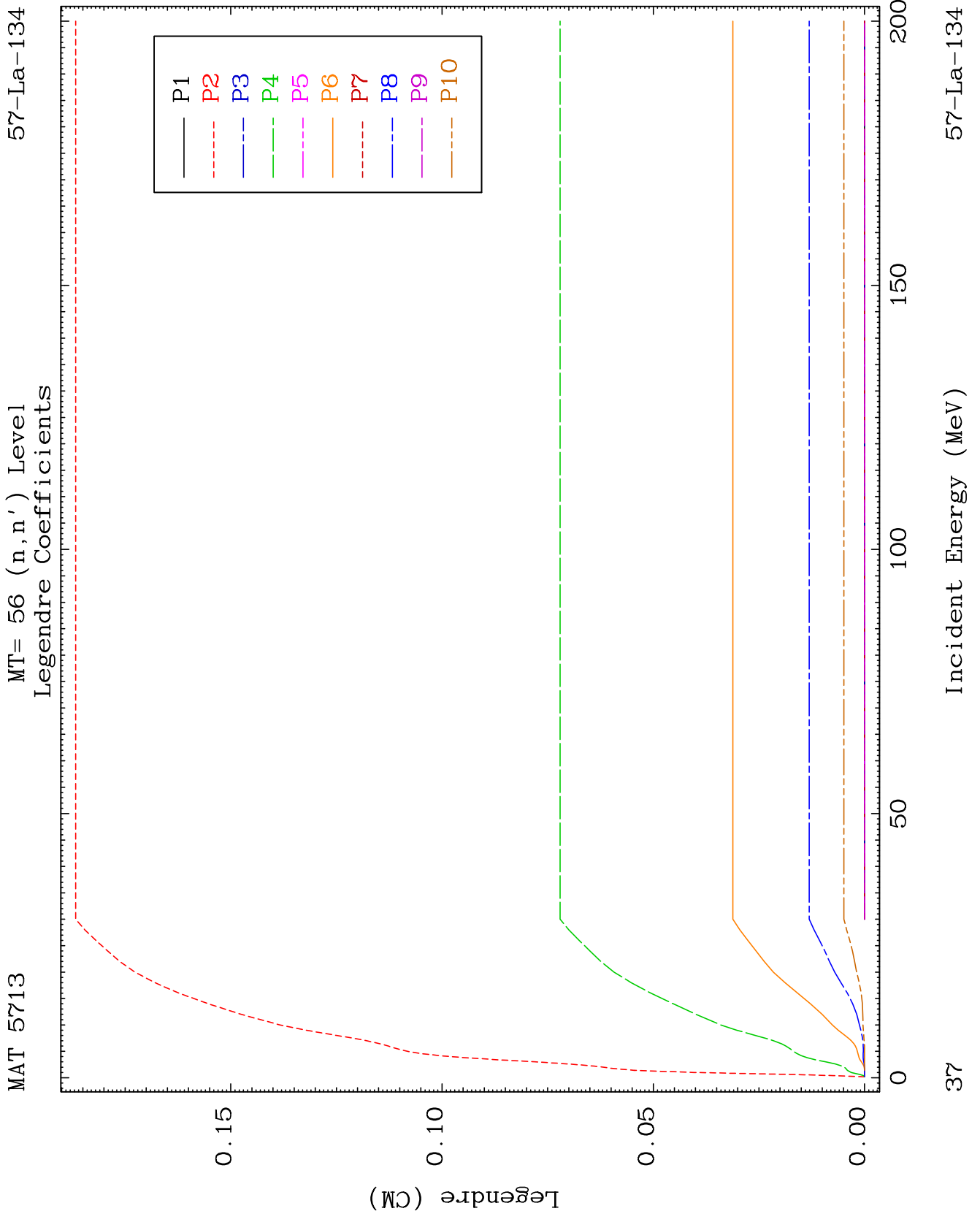
34

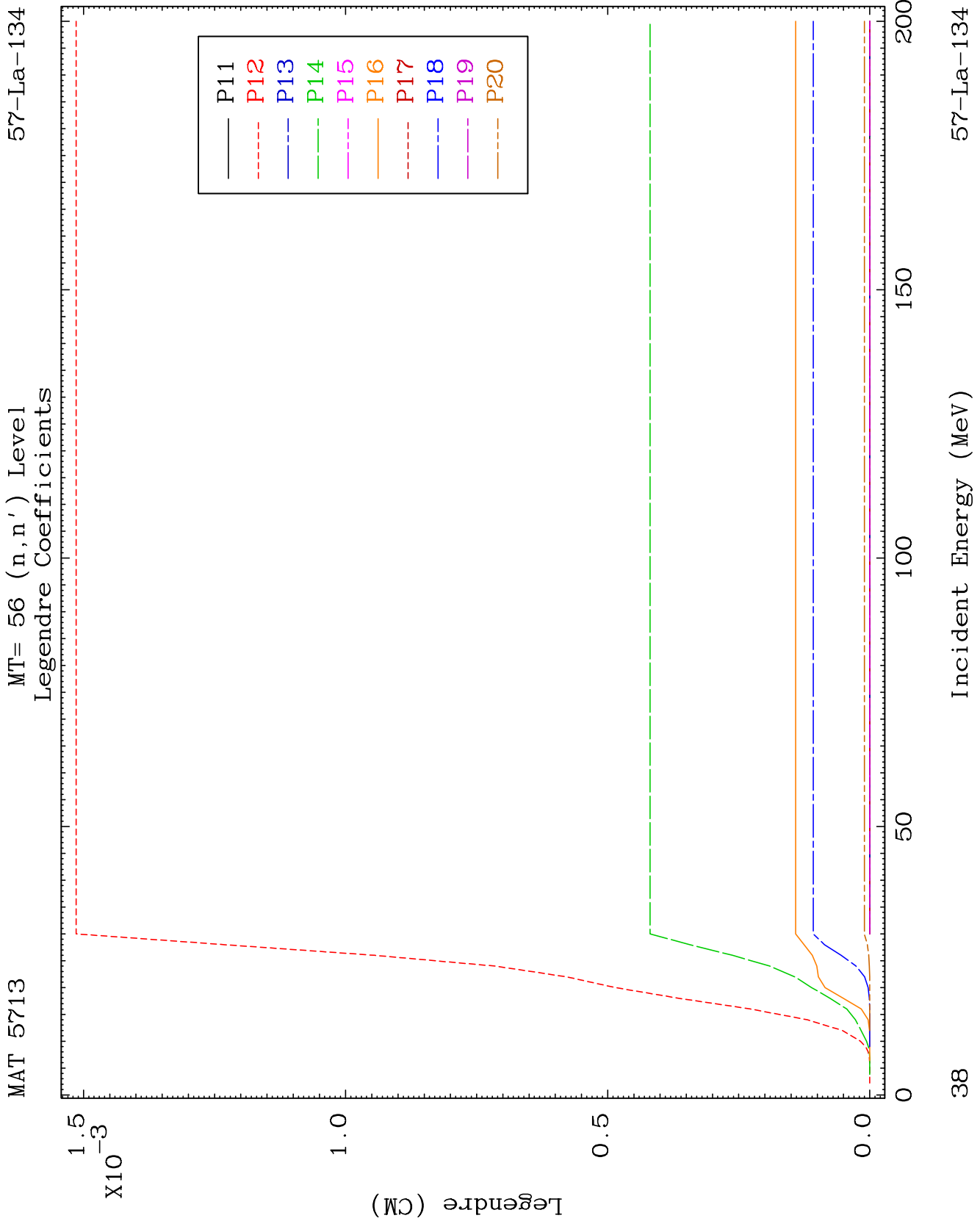
Incident Energy (MeV)

57-La-134





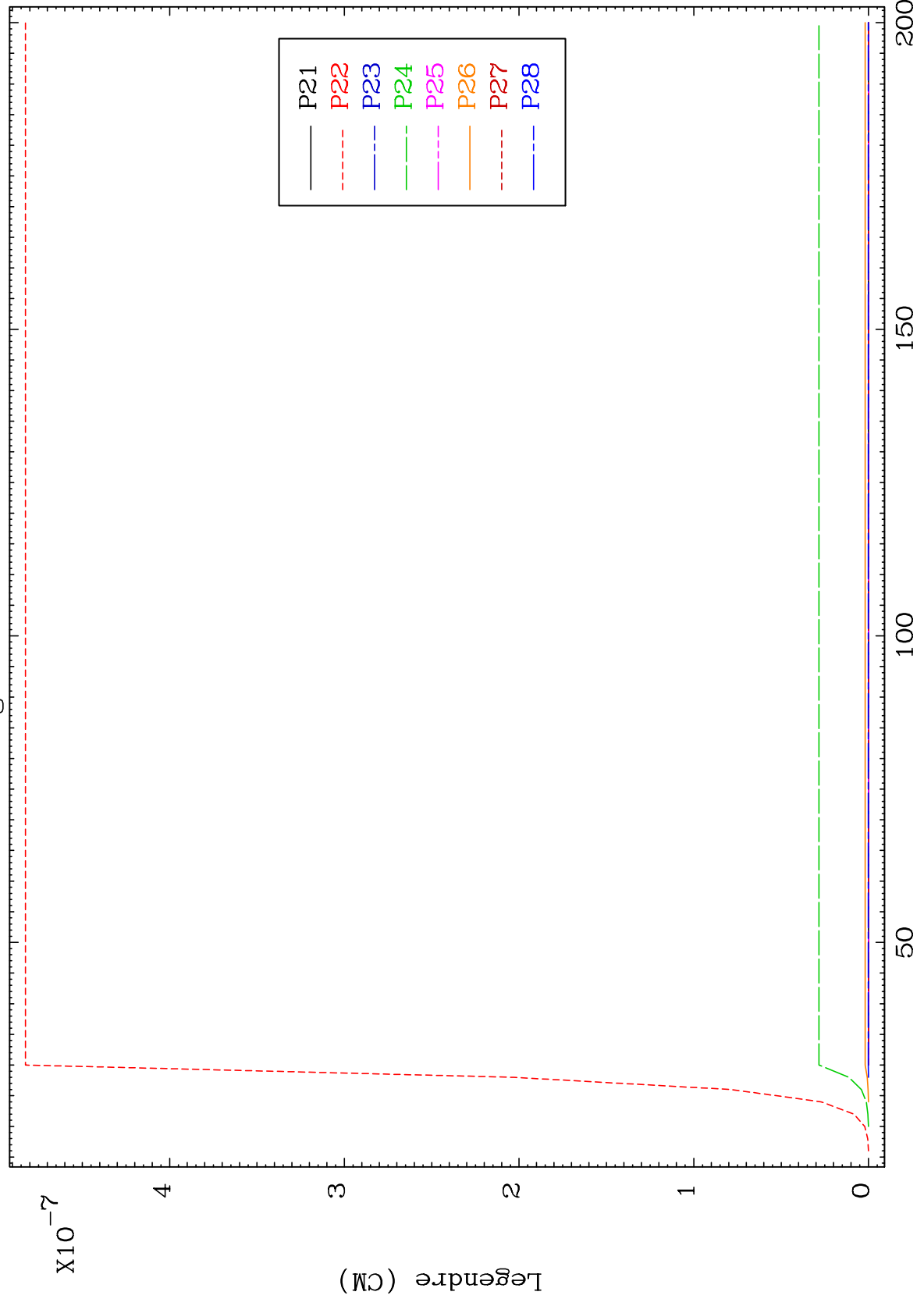




MAT 5713

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

57-La-134

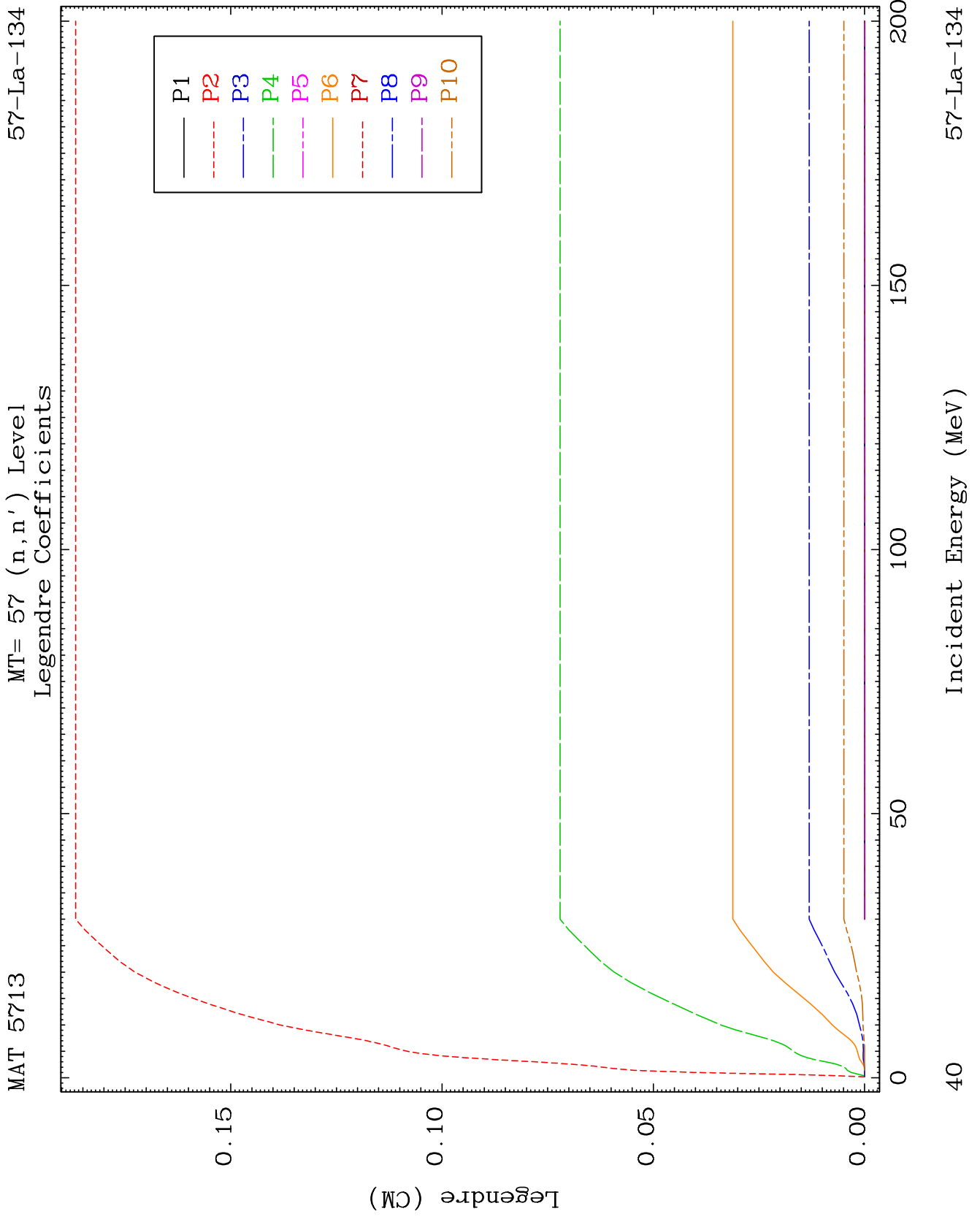


39

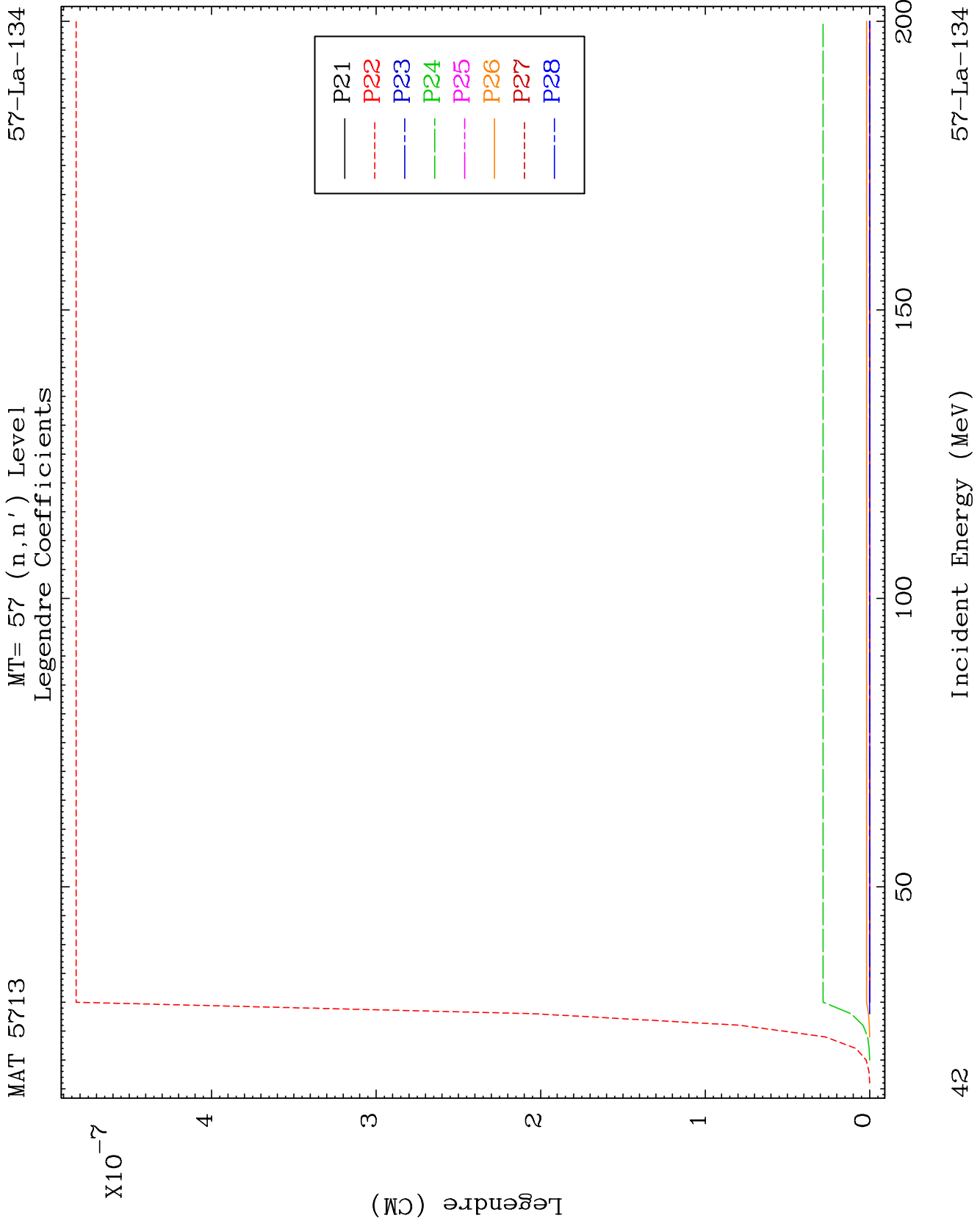
Incident Energy (MeV)

57-La-134





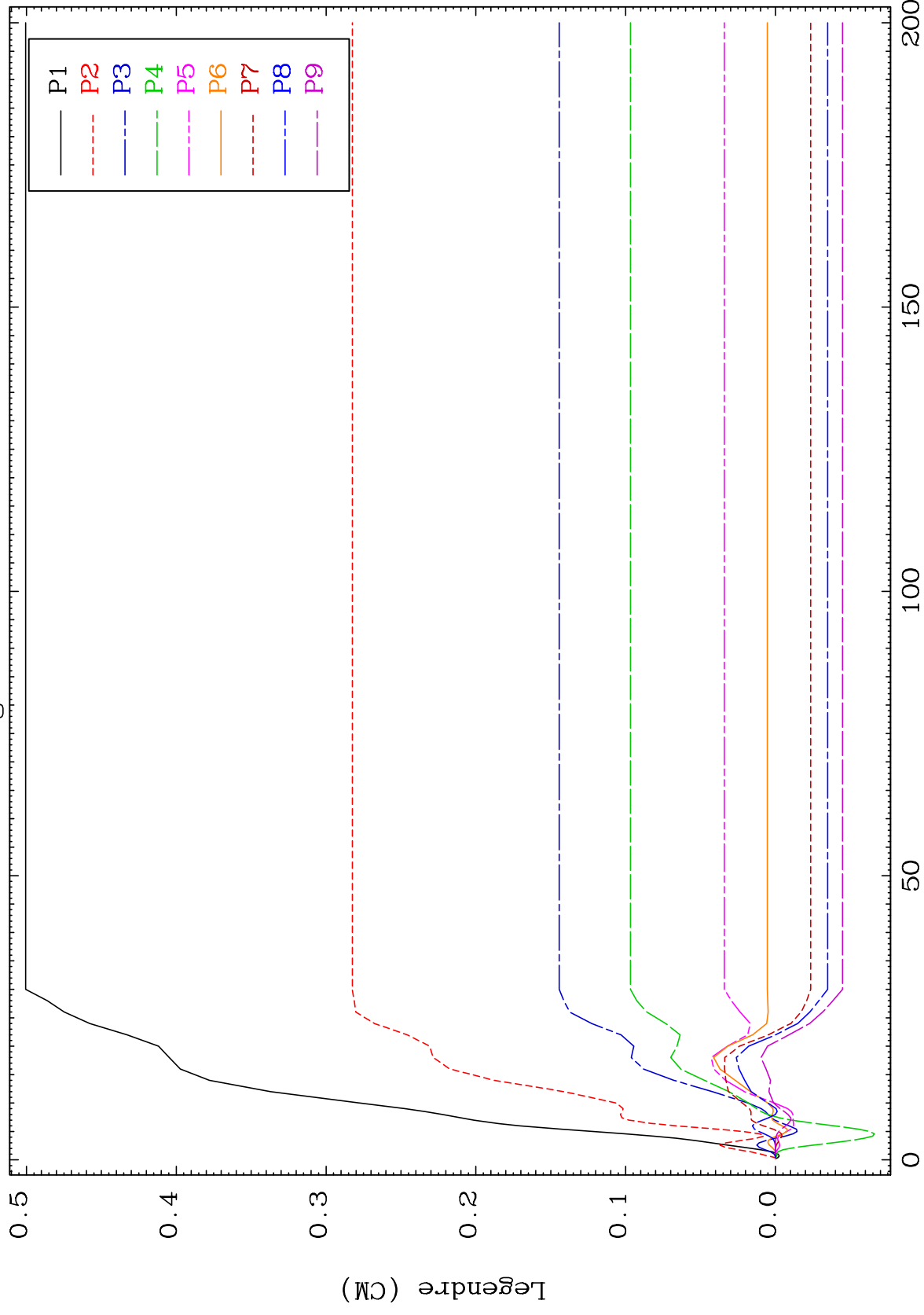




MAT 5713

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

57-La-134



57-La-134

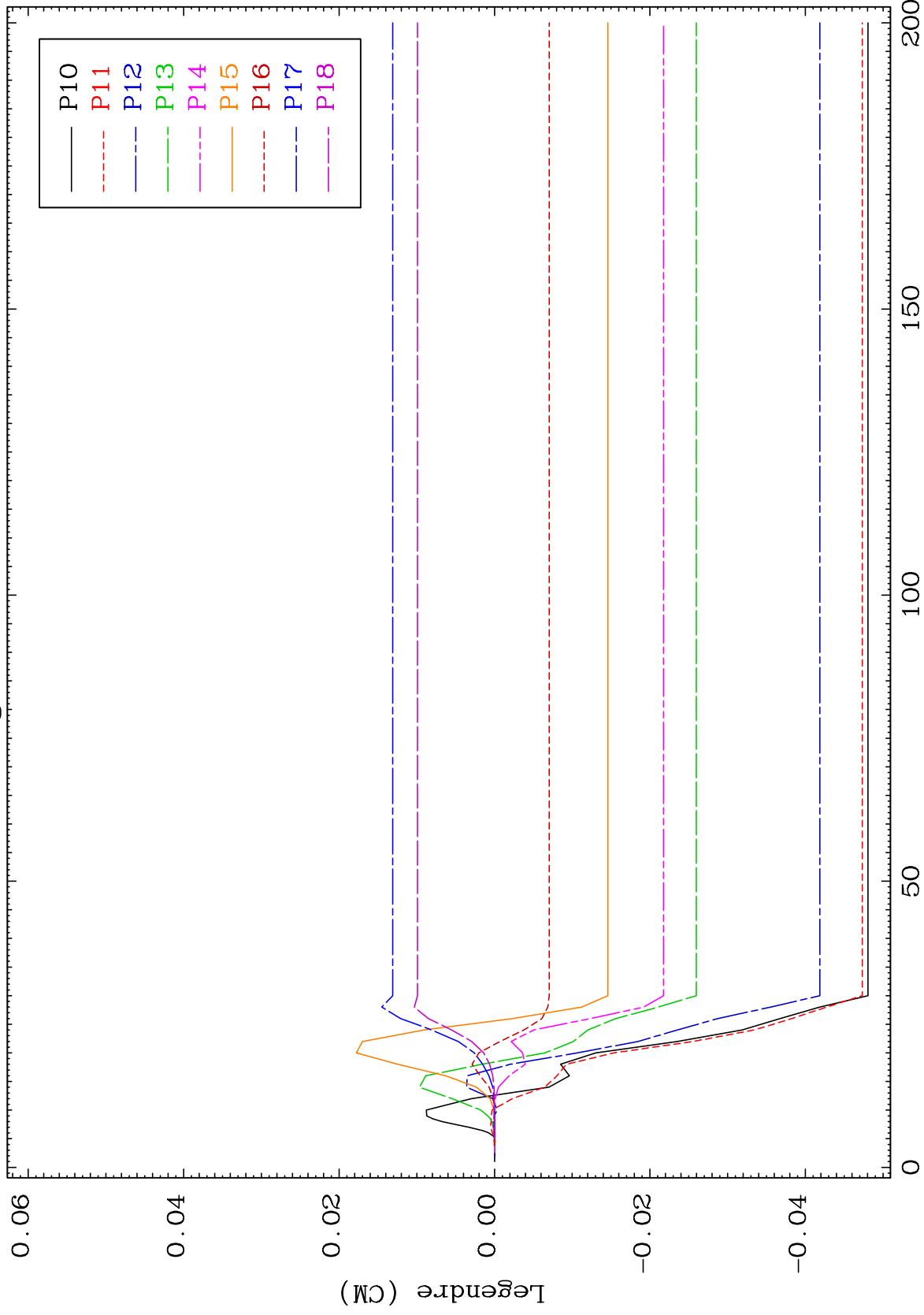
Incident Energy (MeV)

43

MAT 5713

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

57-La-134



44

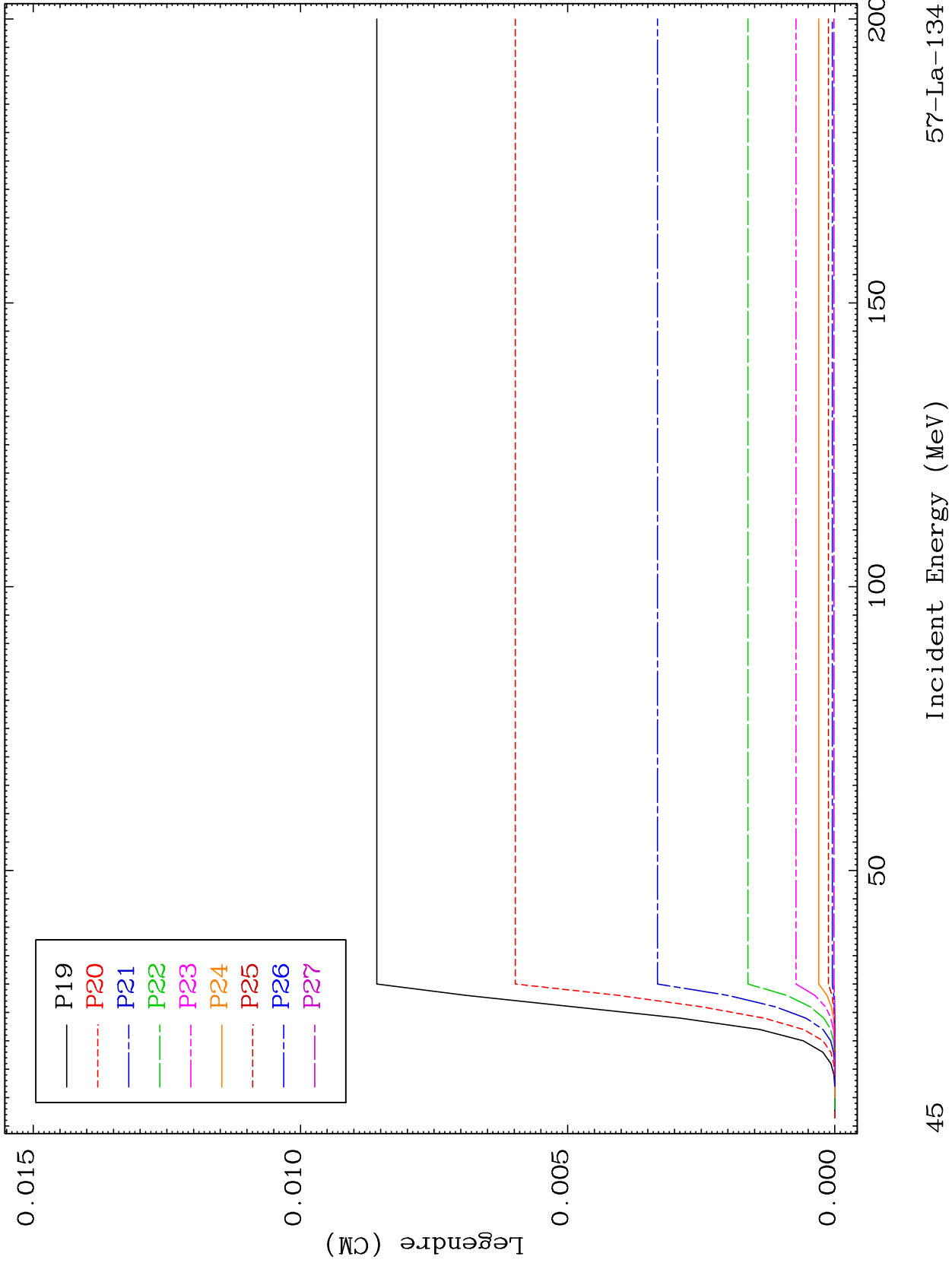
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



45

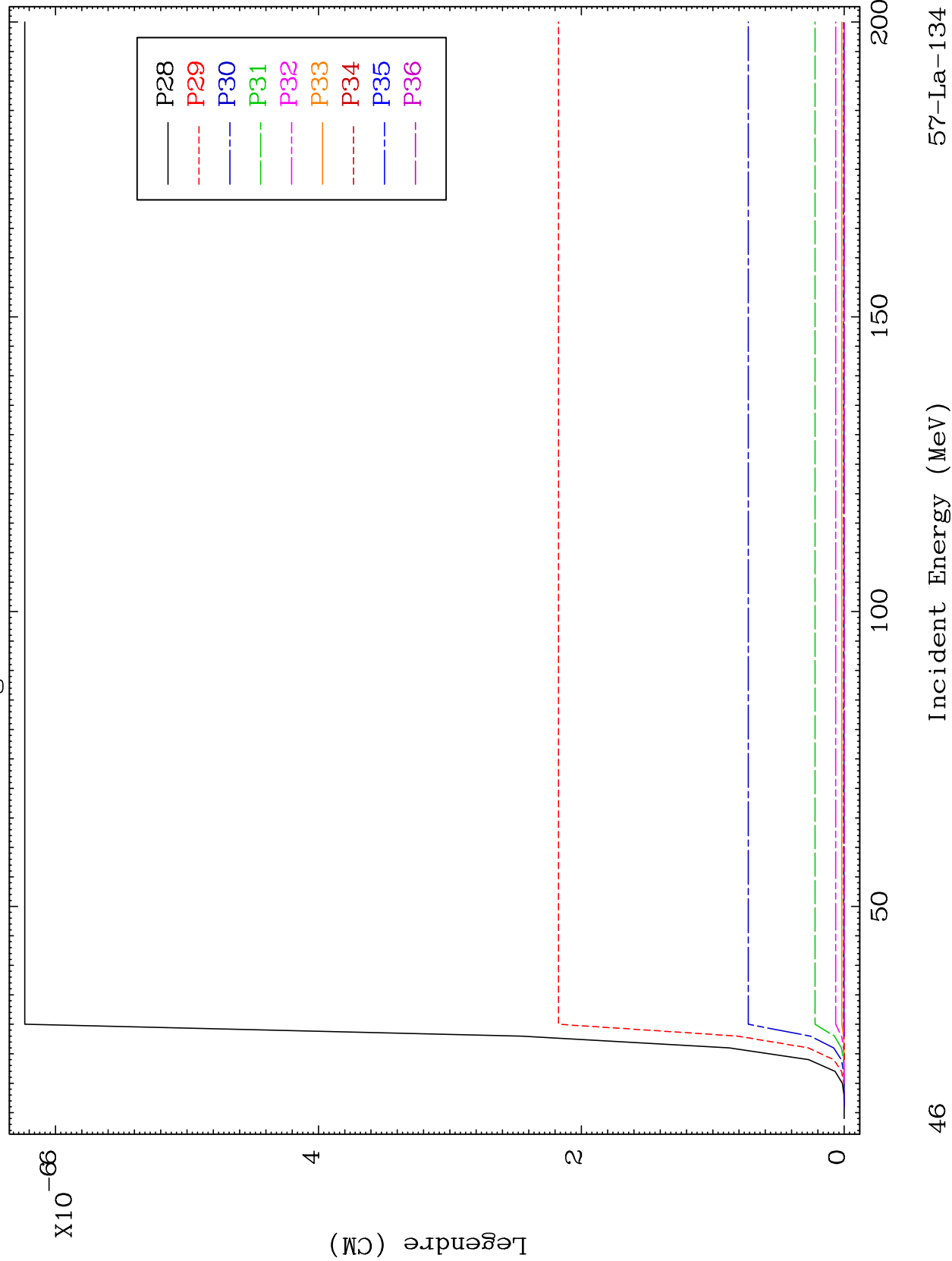
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



46

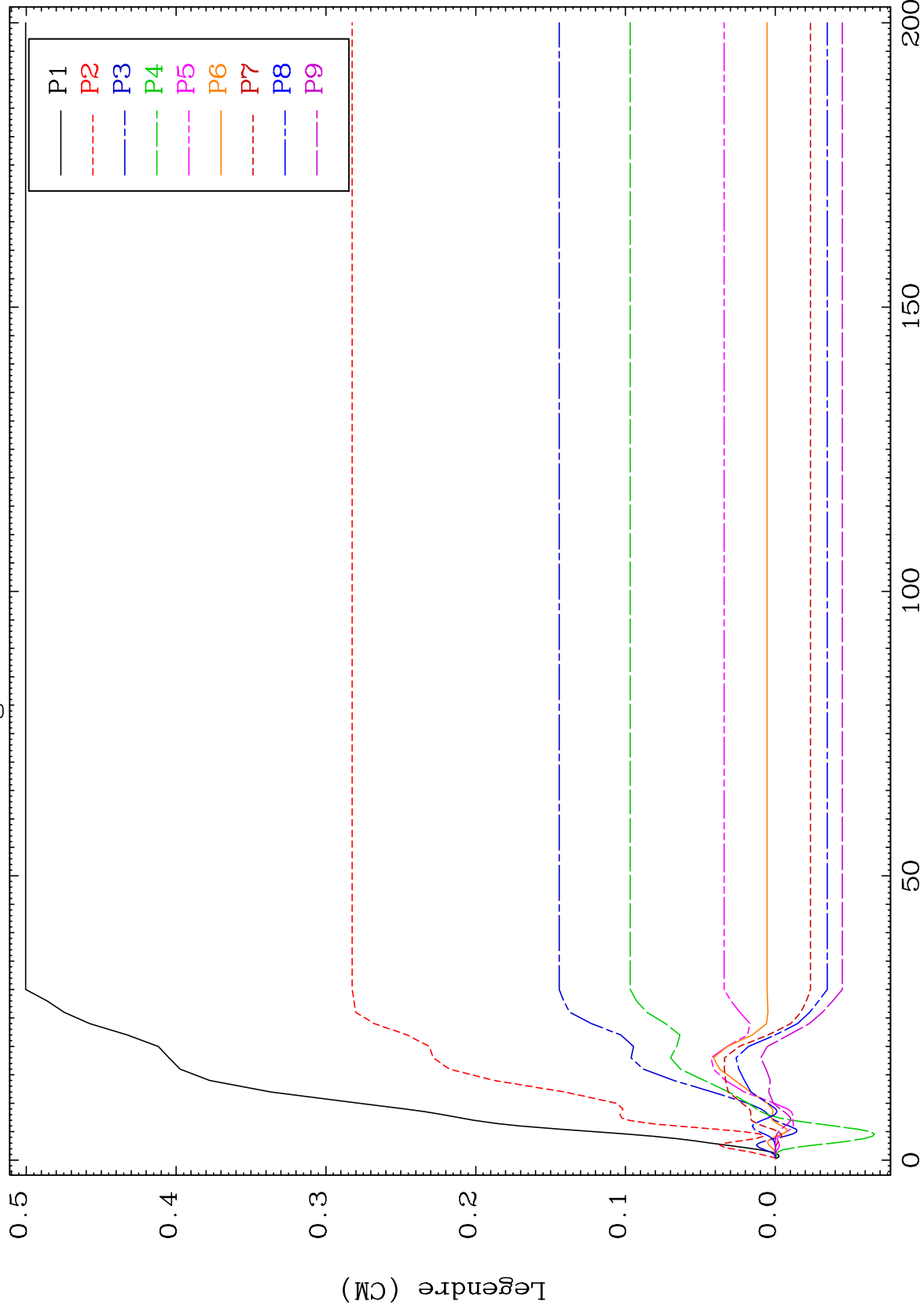
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134

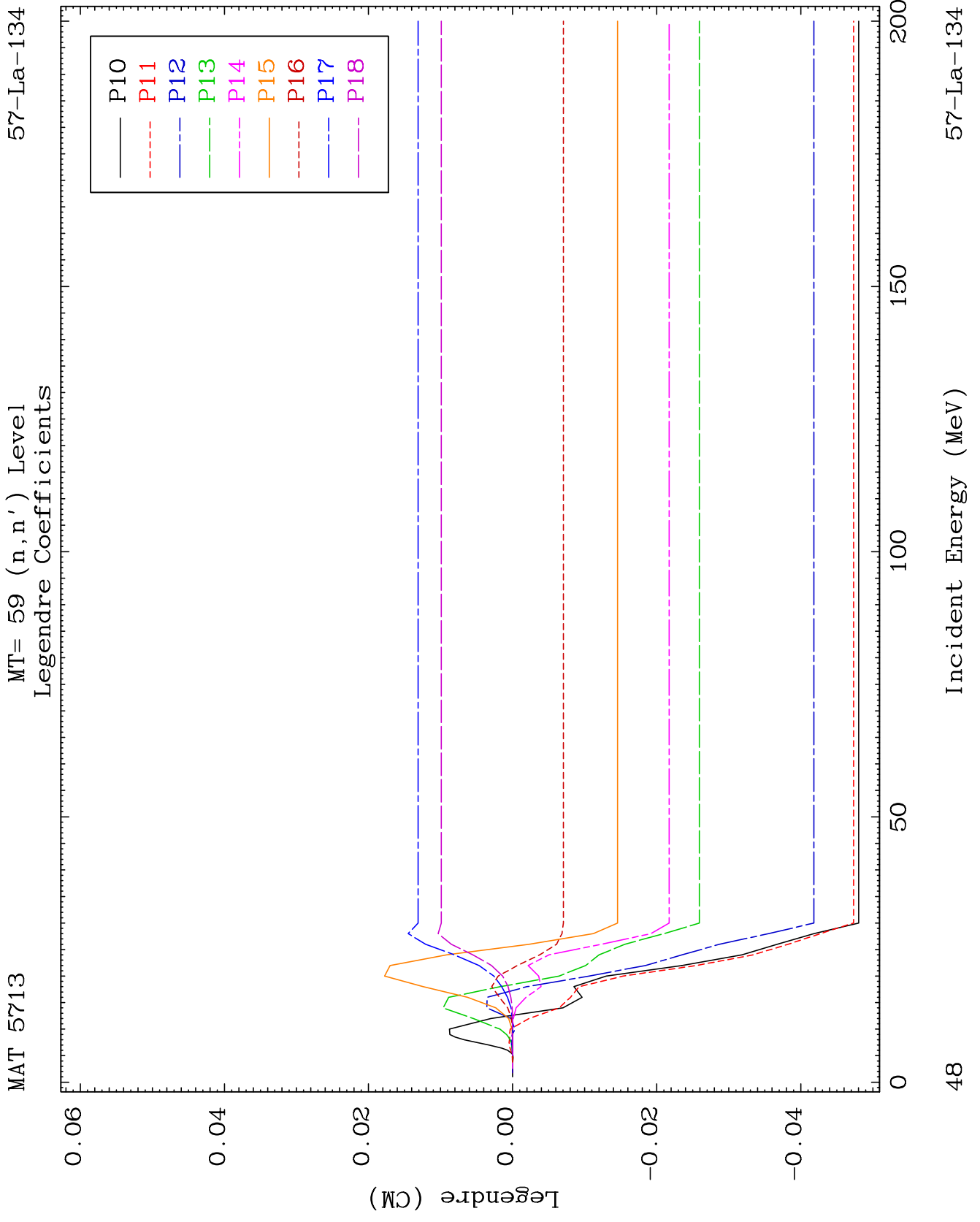


47

Incident Energy (MeV)

57-La-134

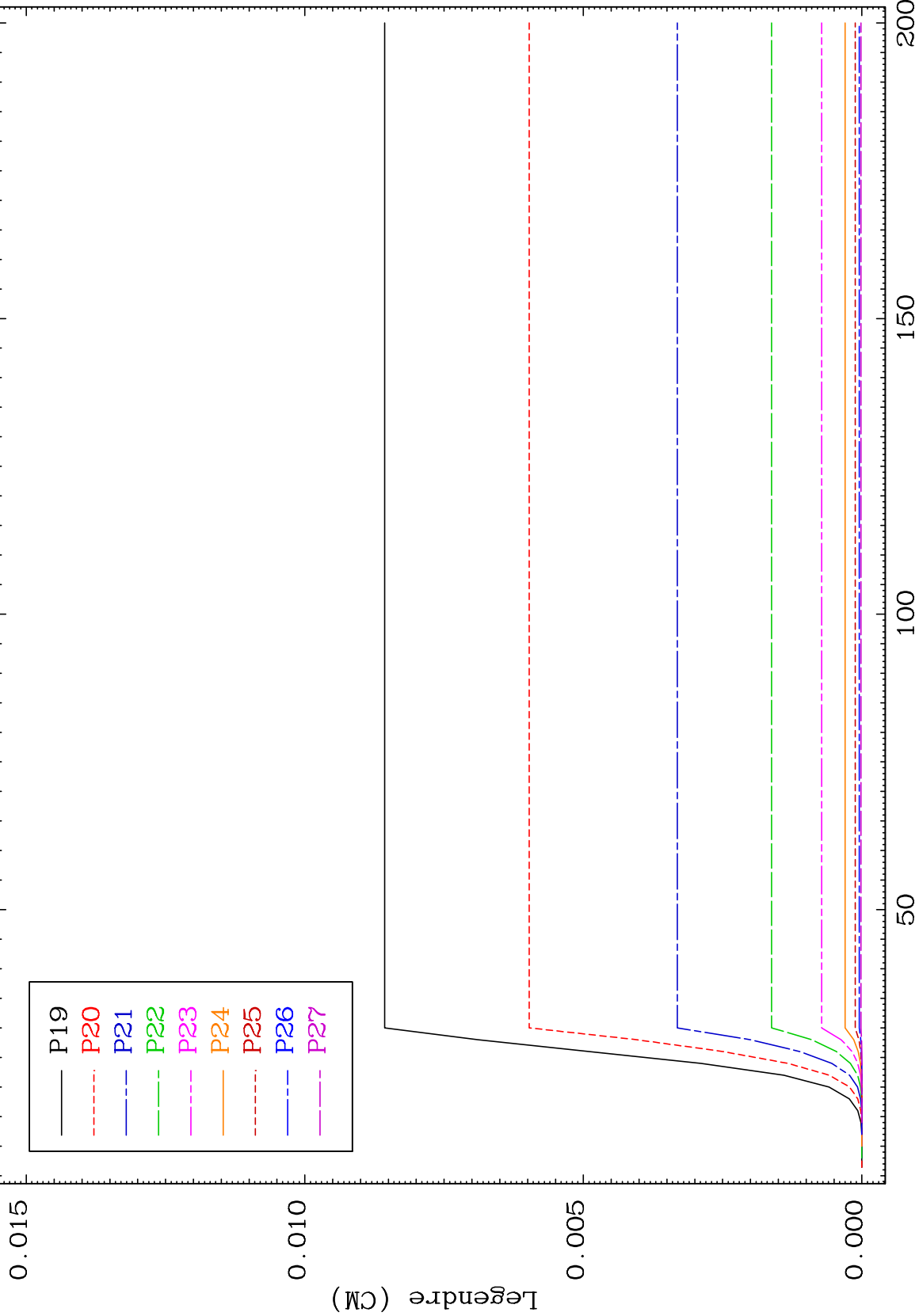




MAT 5713

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

57-La-134



49

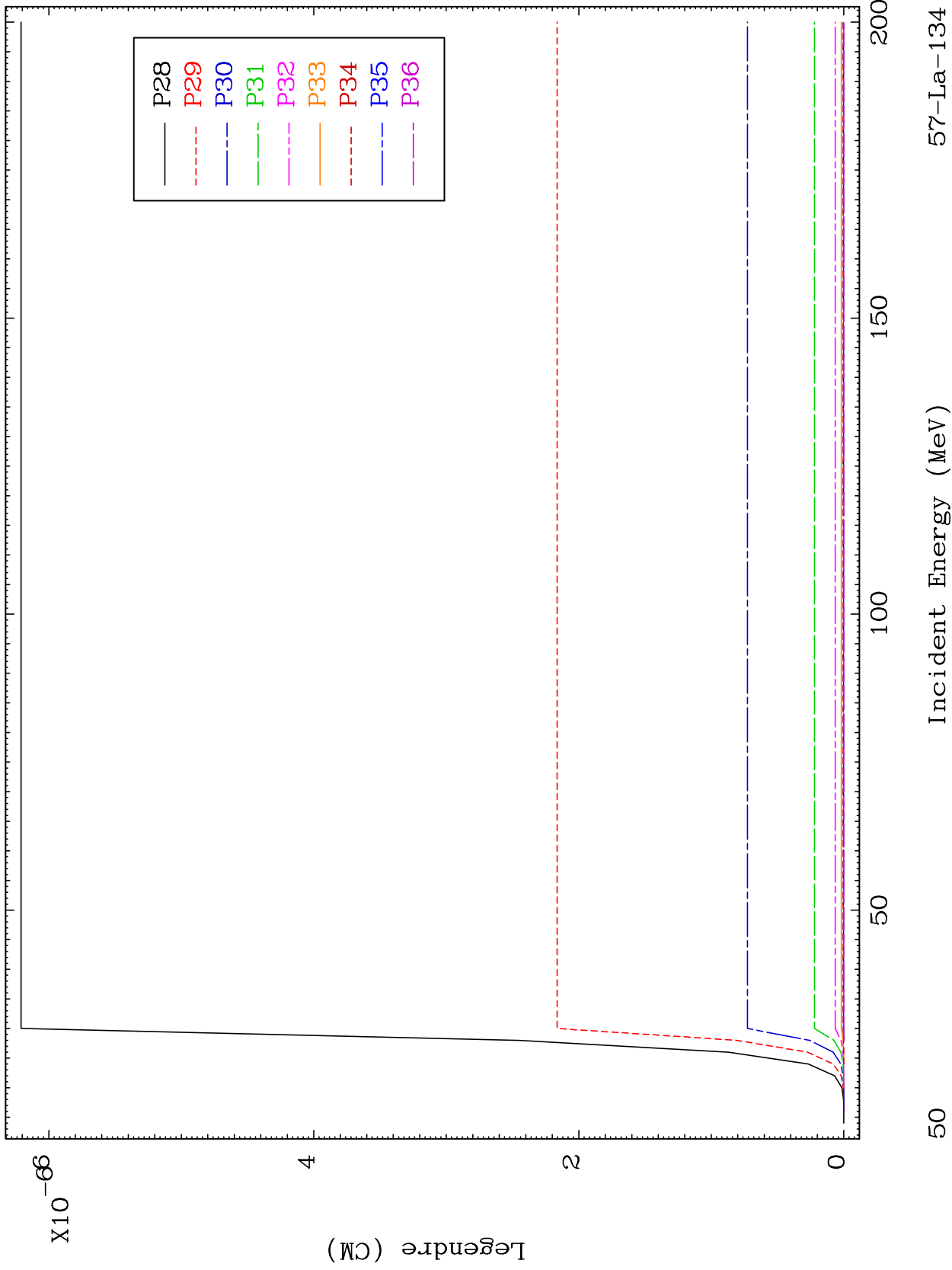
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



50

50

100

150

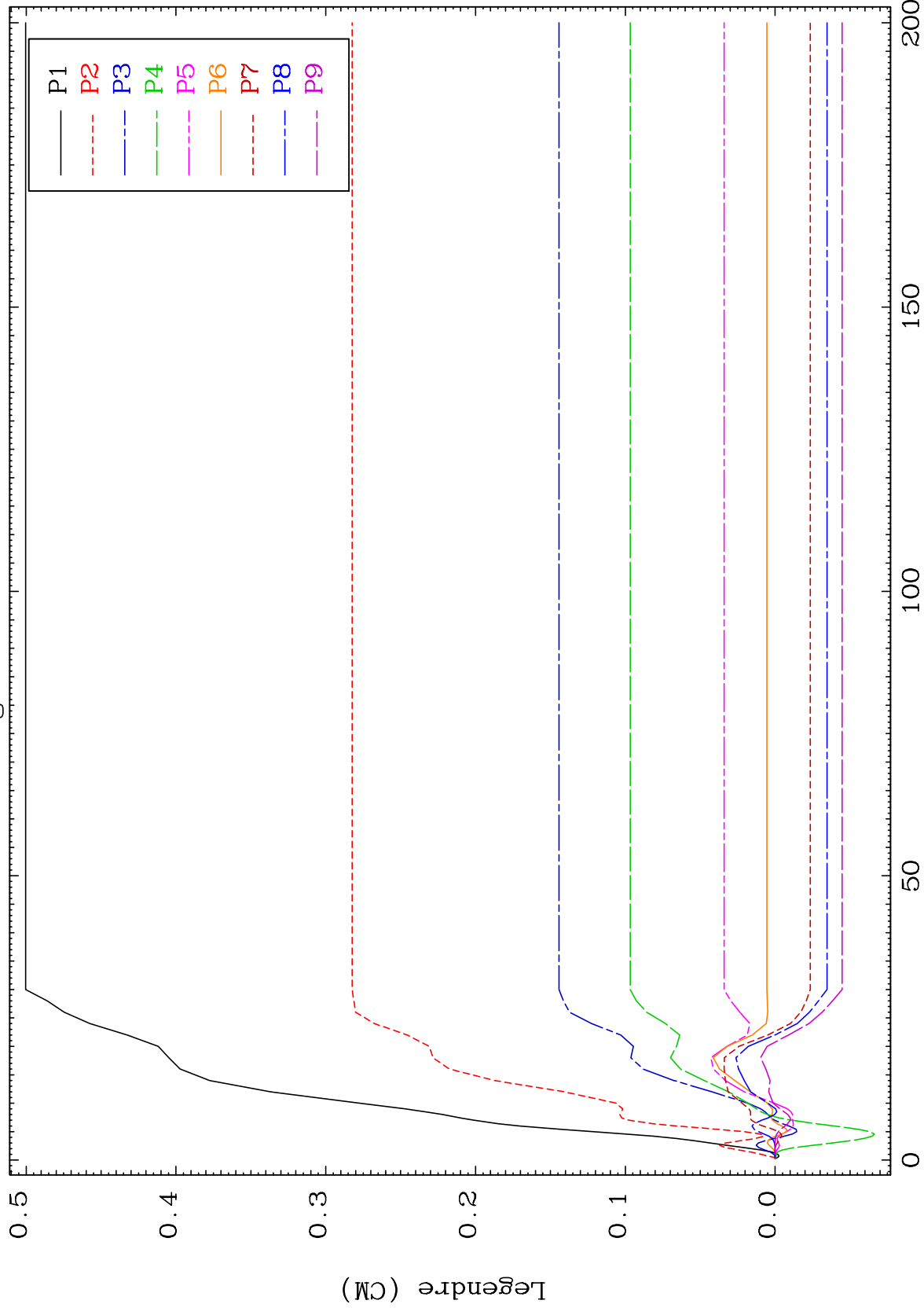
200

57-La-134

MAT 5713

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

57-La-134



51

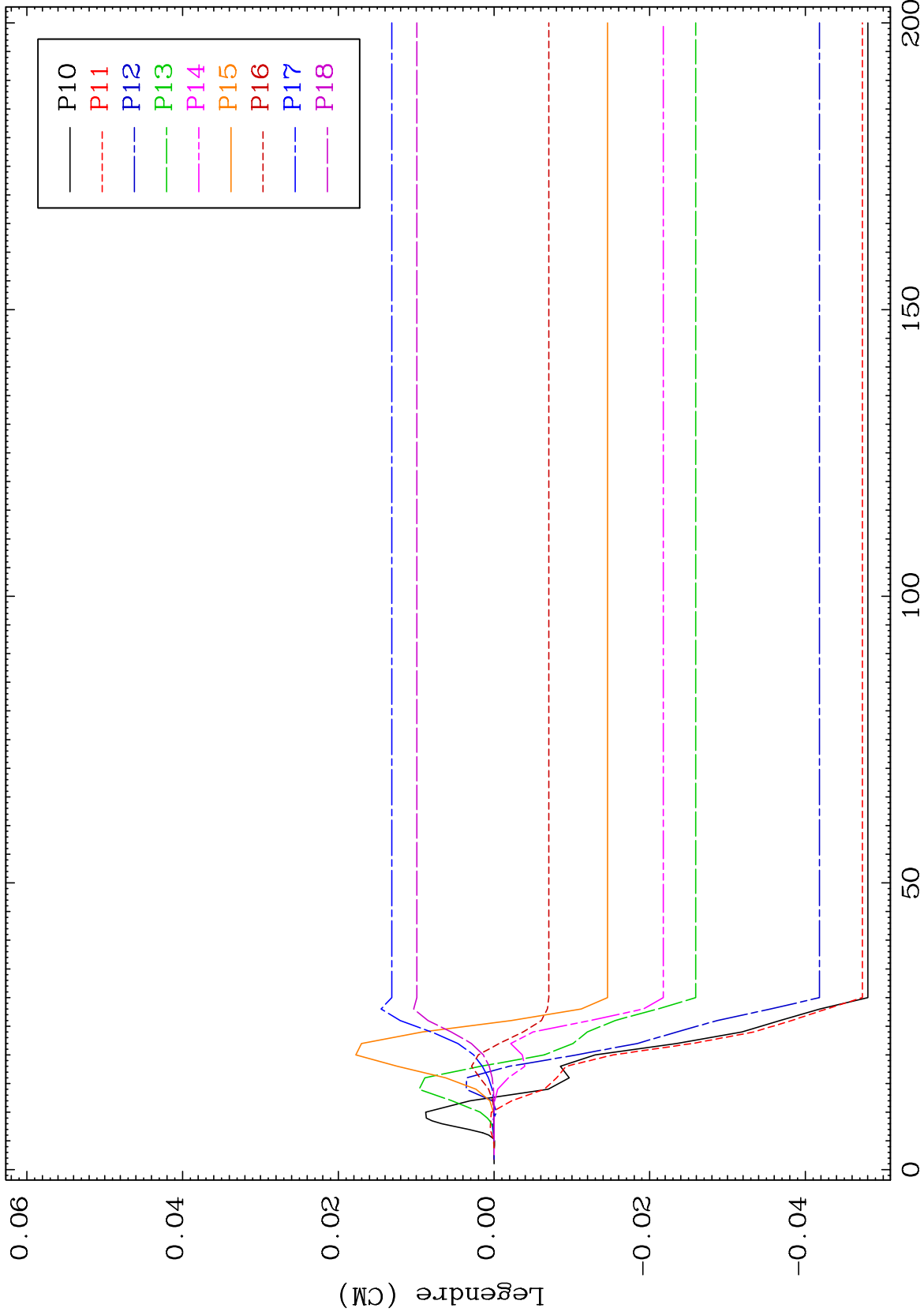
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



52

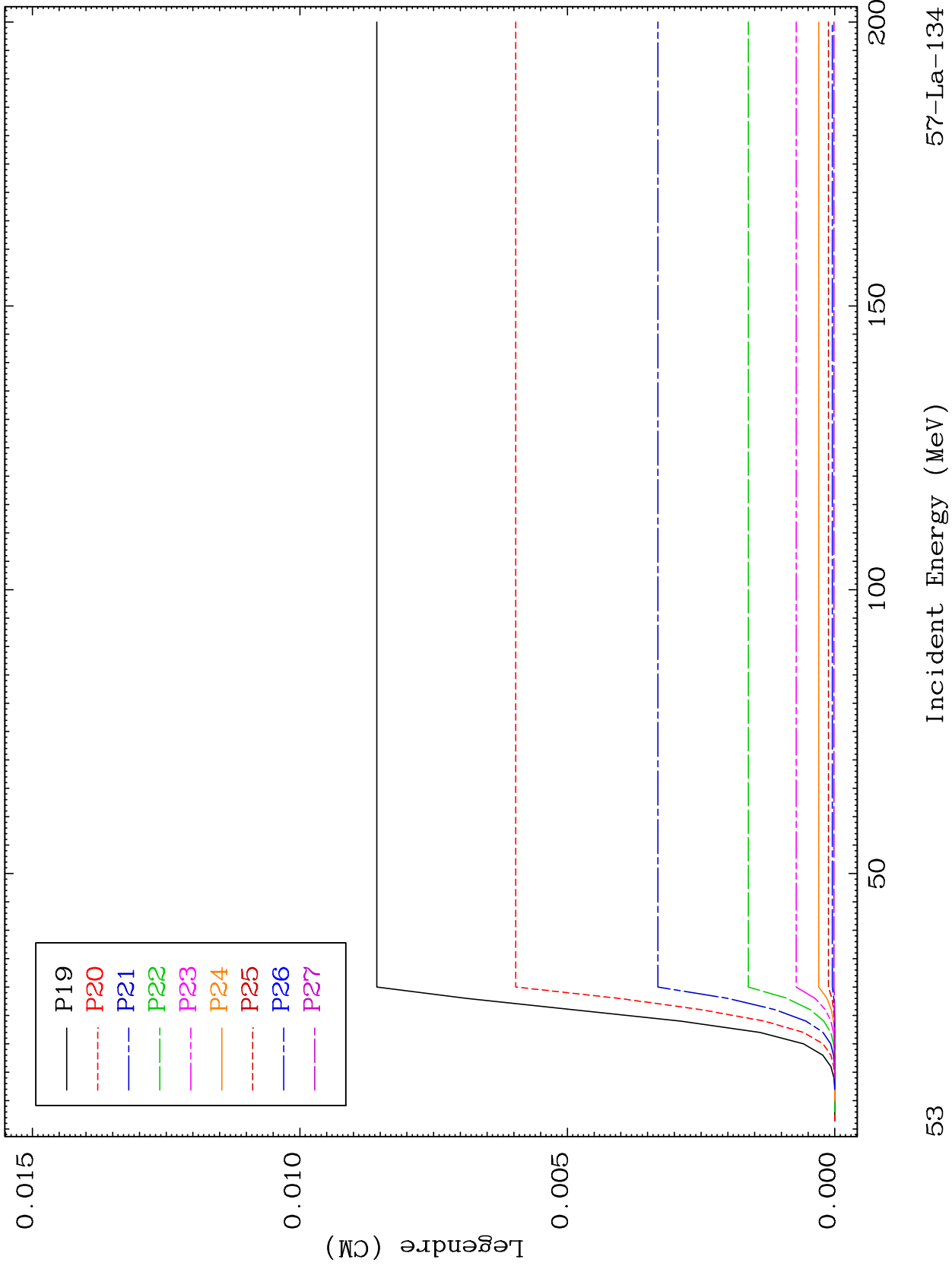
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



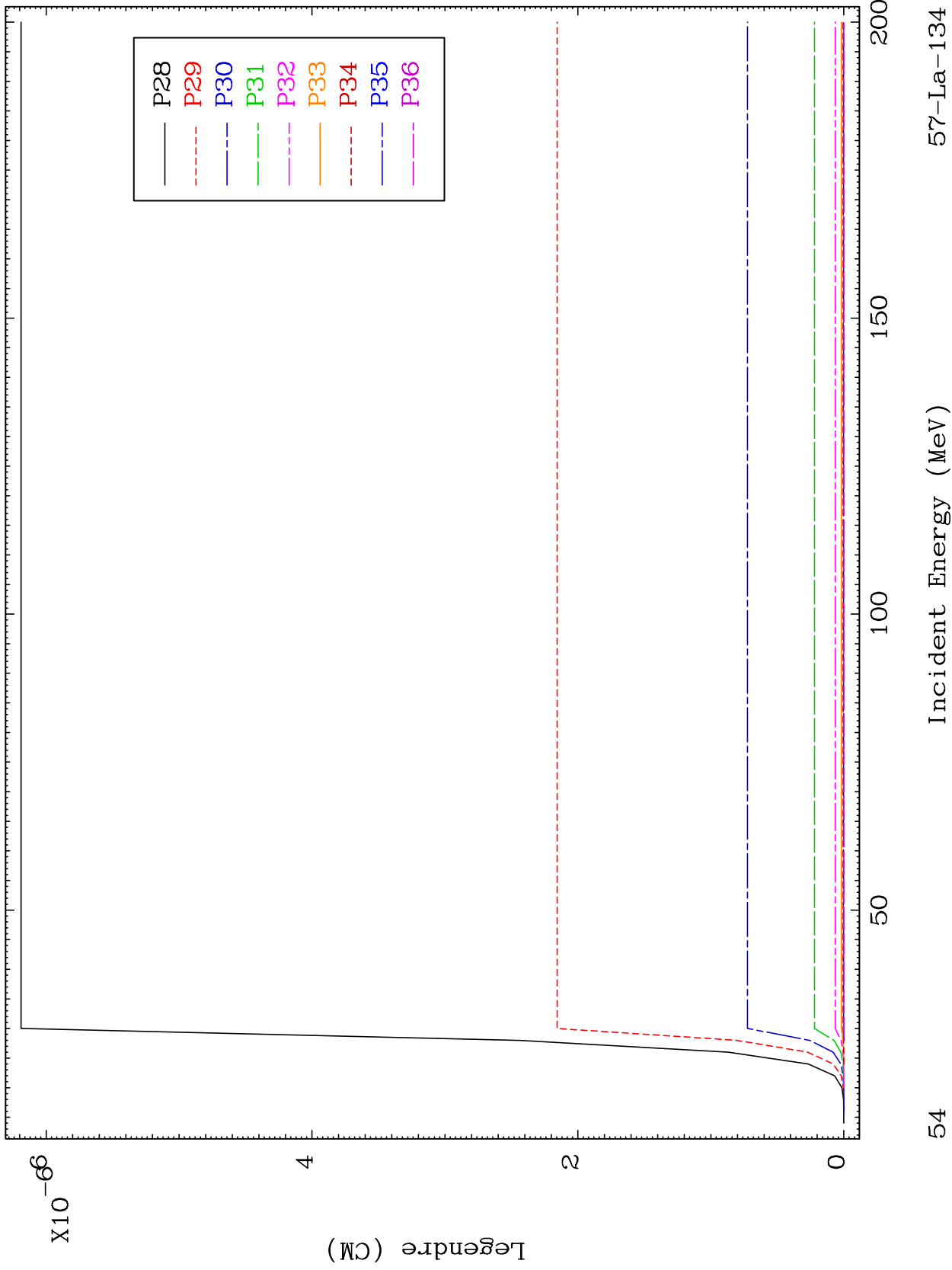
53

57-La-134

MAT 5713

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

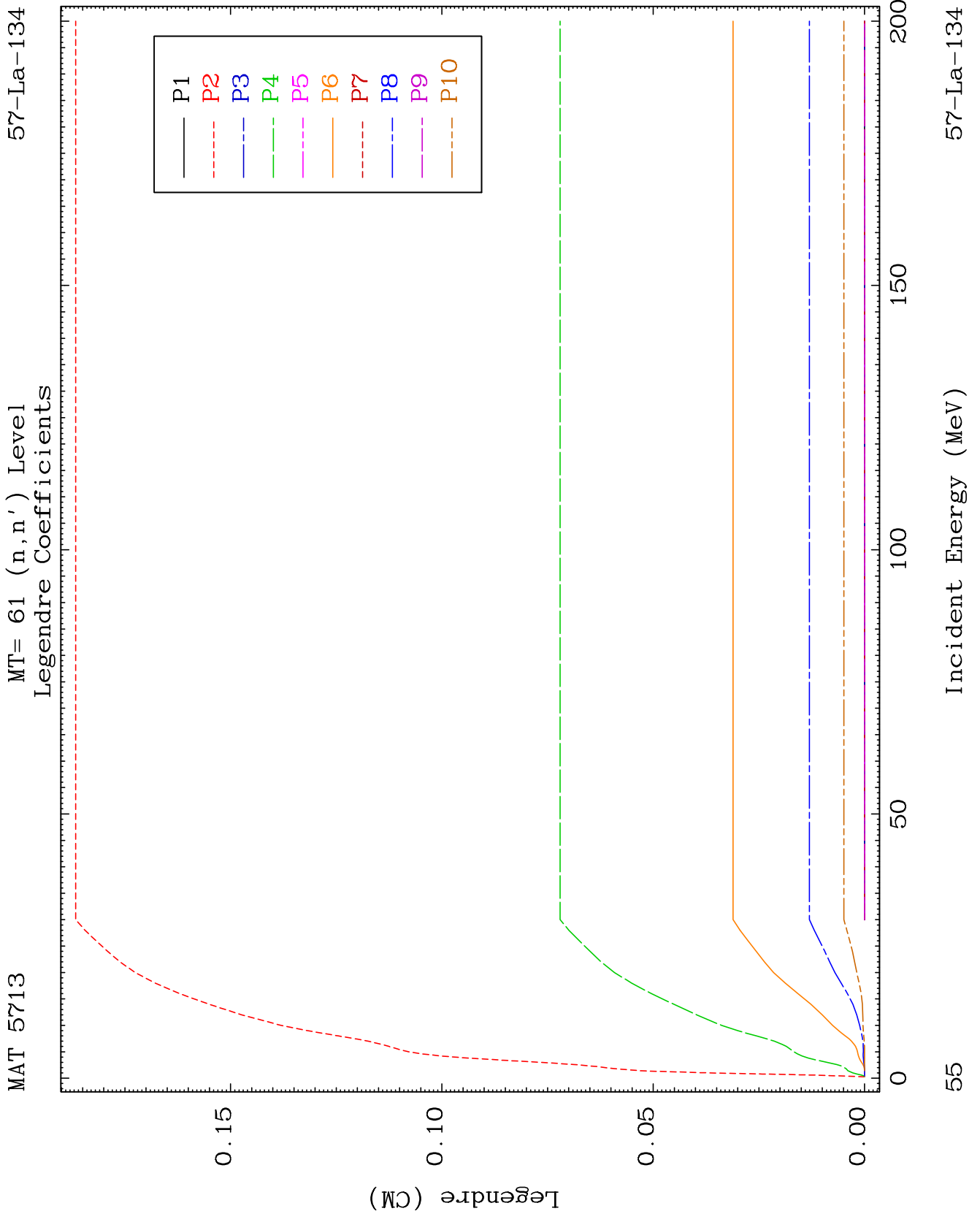
57-La-134



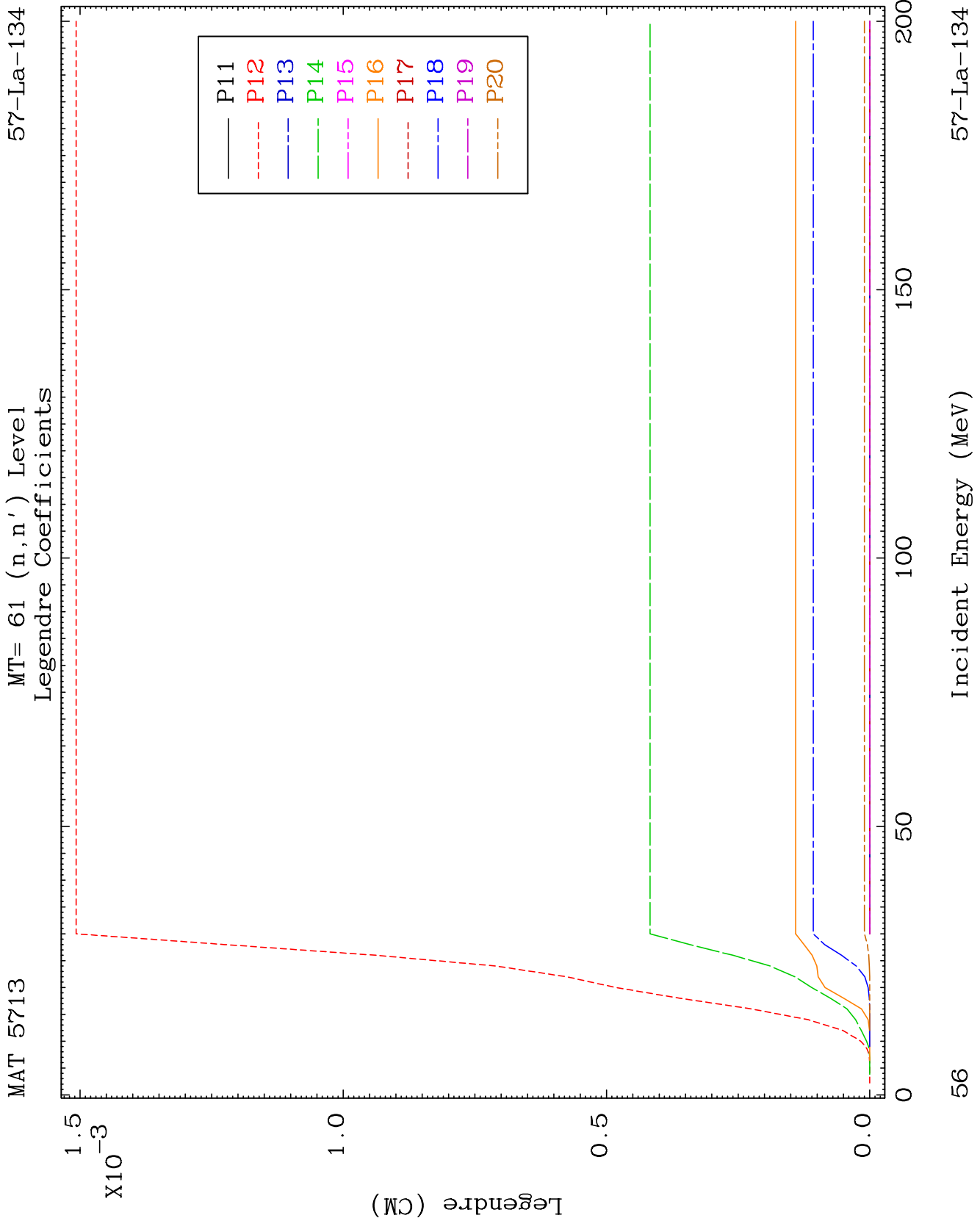
54

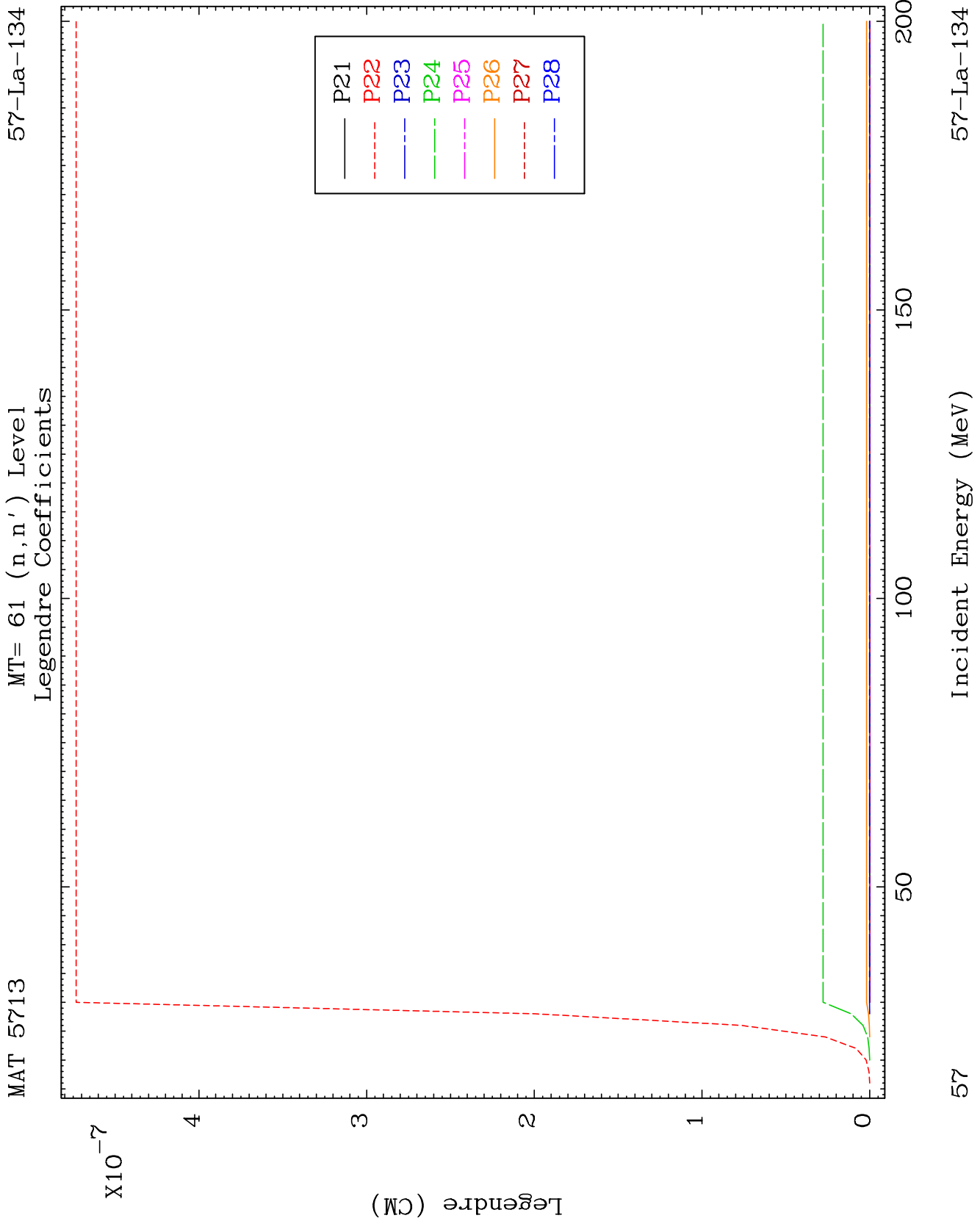
Incident Energy (MeV)

57-La-134





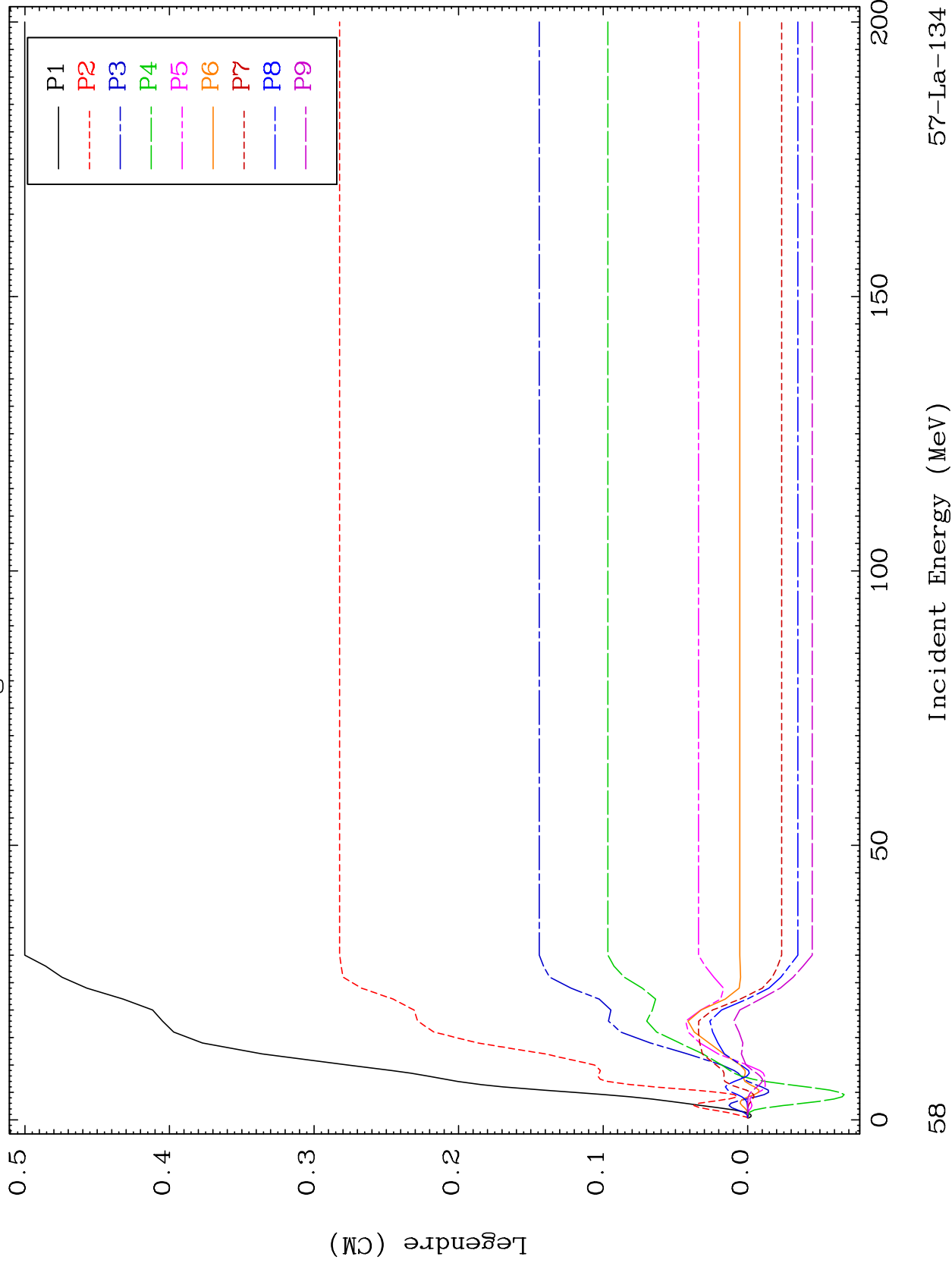




MAT 5713

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

57-La-134



57-La-134

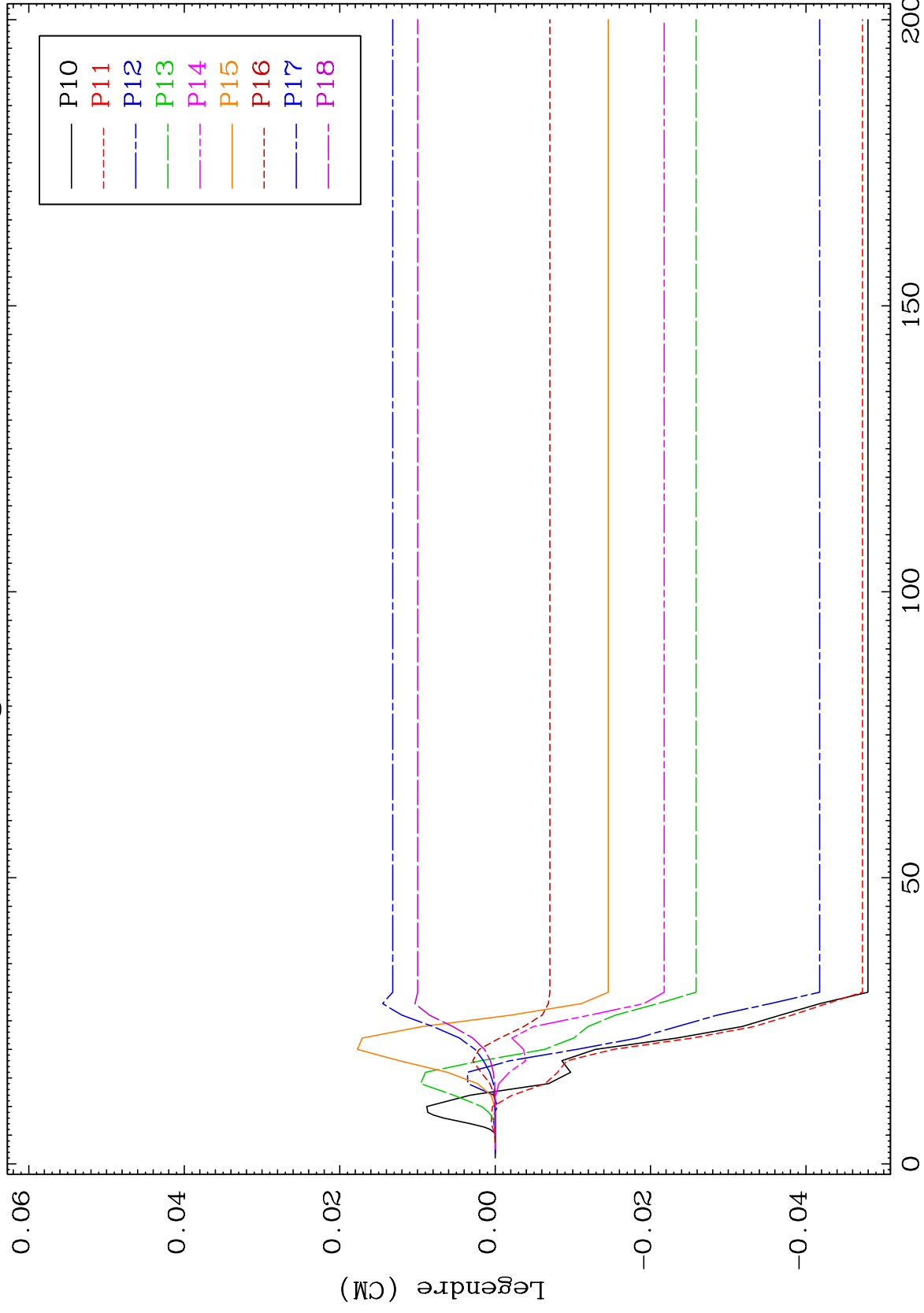
Incident Energy (MeV)

58

MAT 5713

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

57-La-134



59

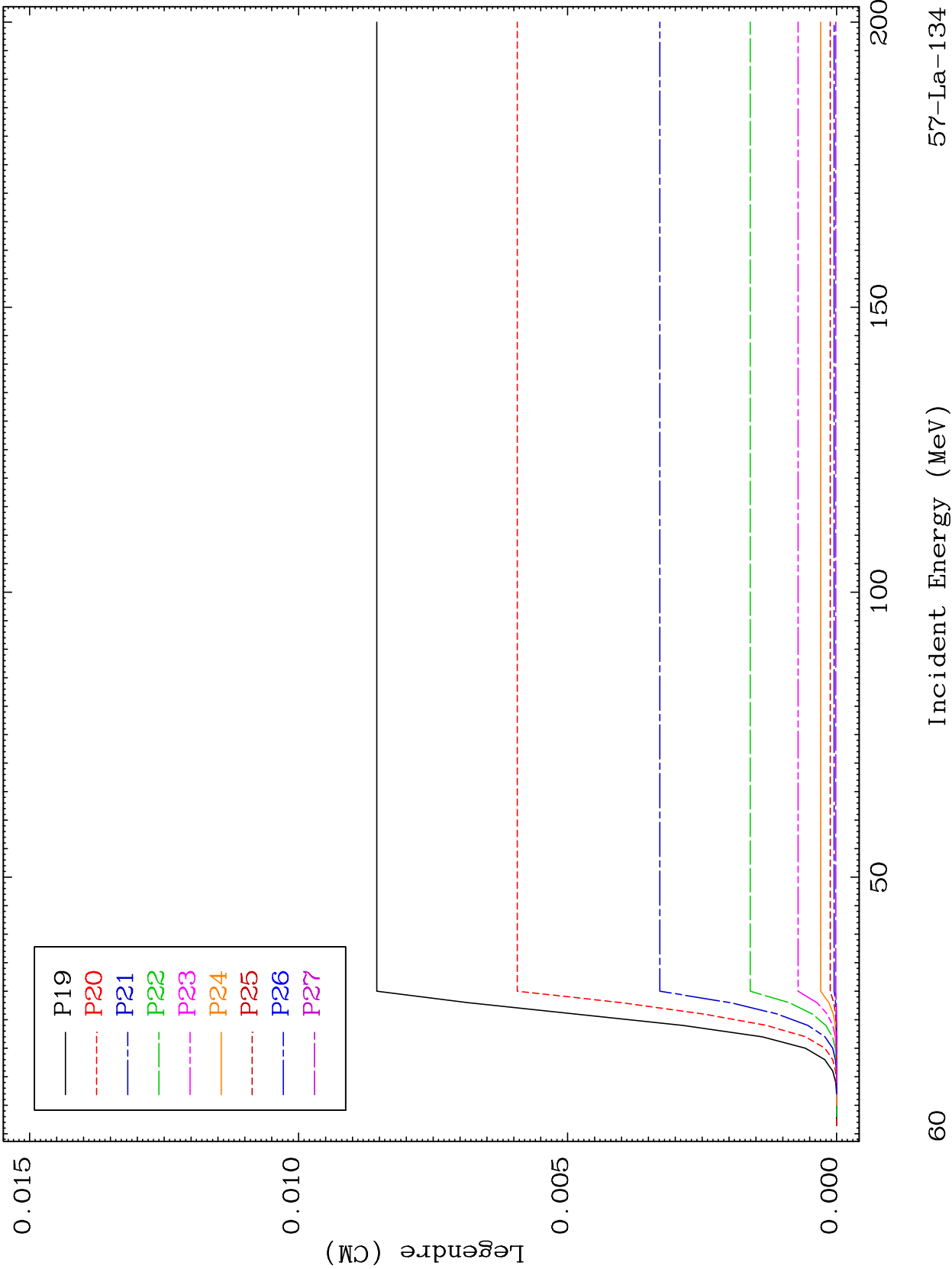
Incident Energy (MeV)

57-La-134

MAT 5713

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

57-La-134



57-La-134

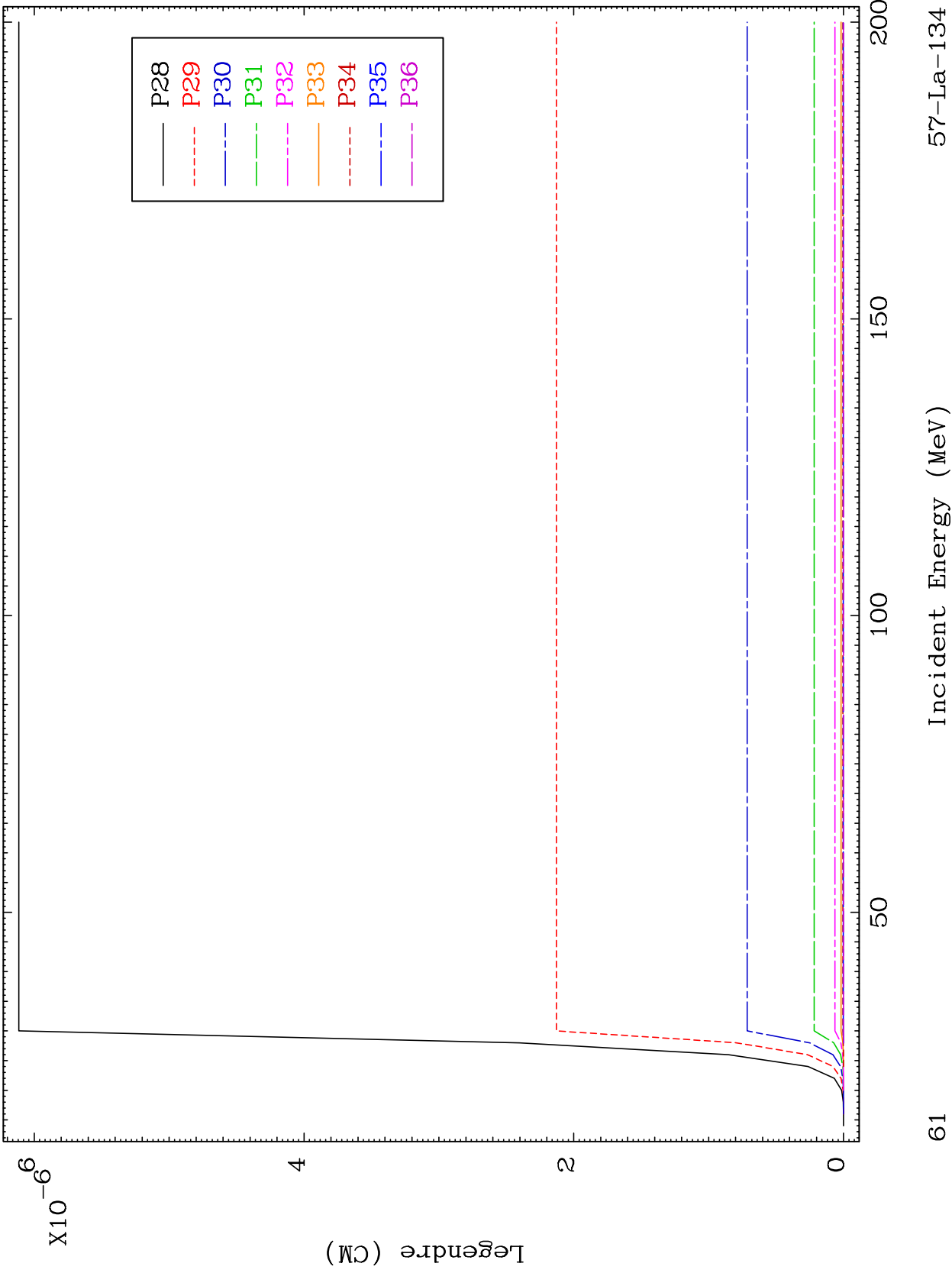
Incident Energy (MeV)

60

MAT 5713

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

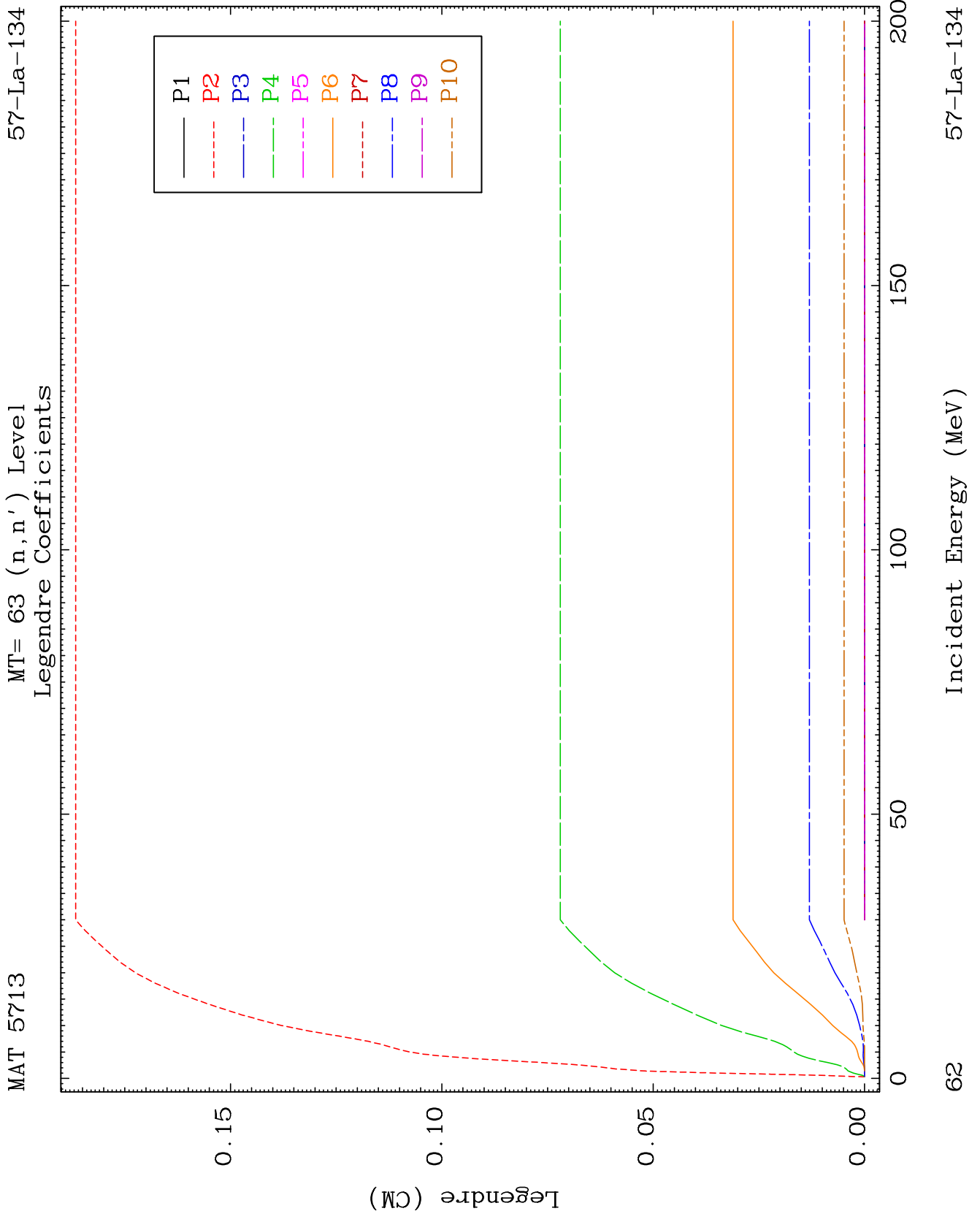
57-La-134

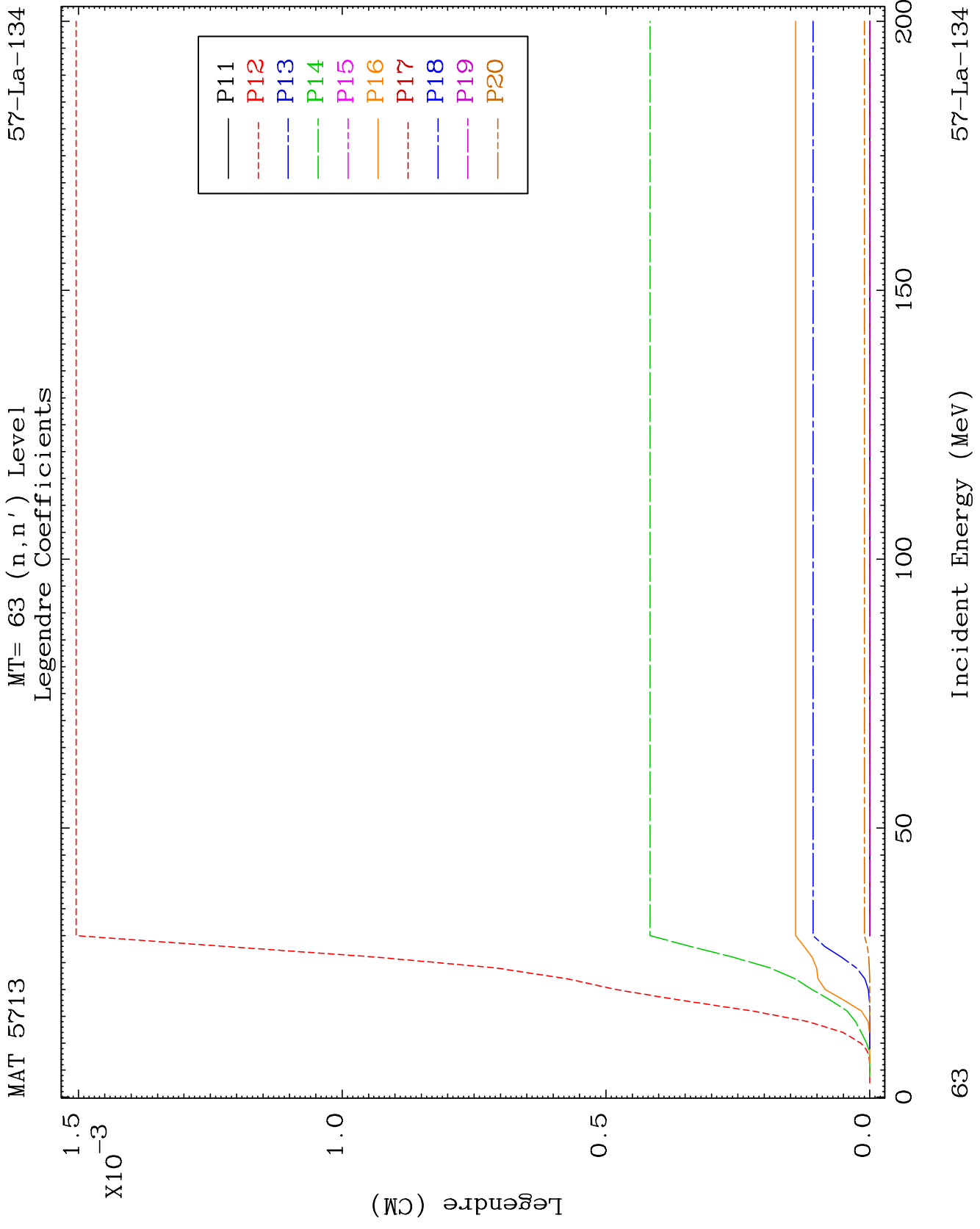


61

Incident Energy (MeV)

57-La-134





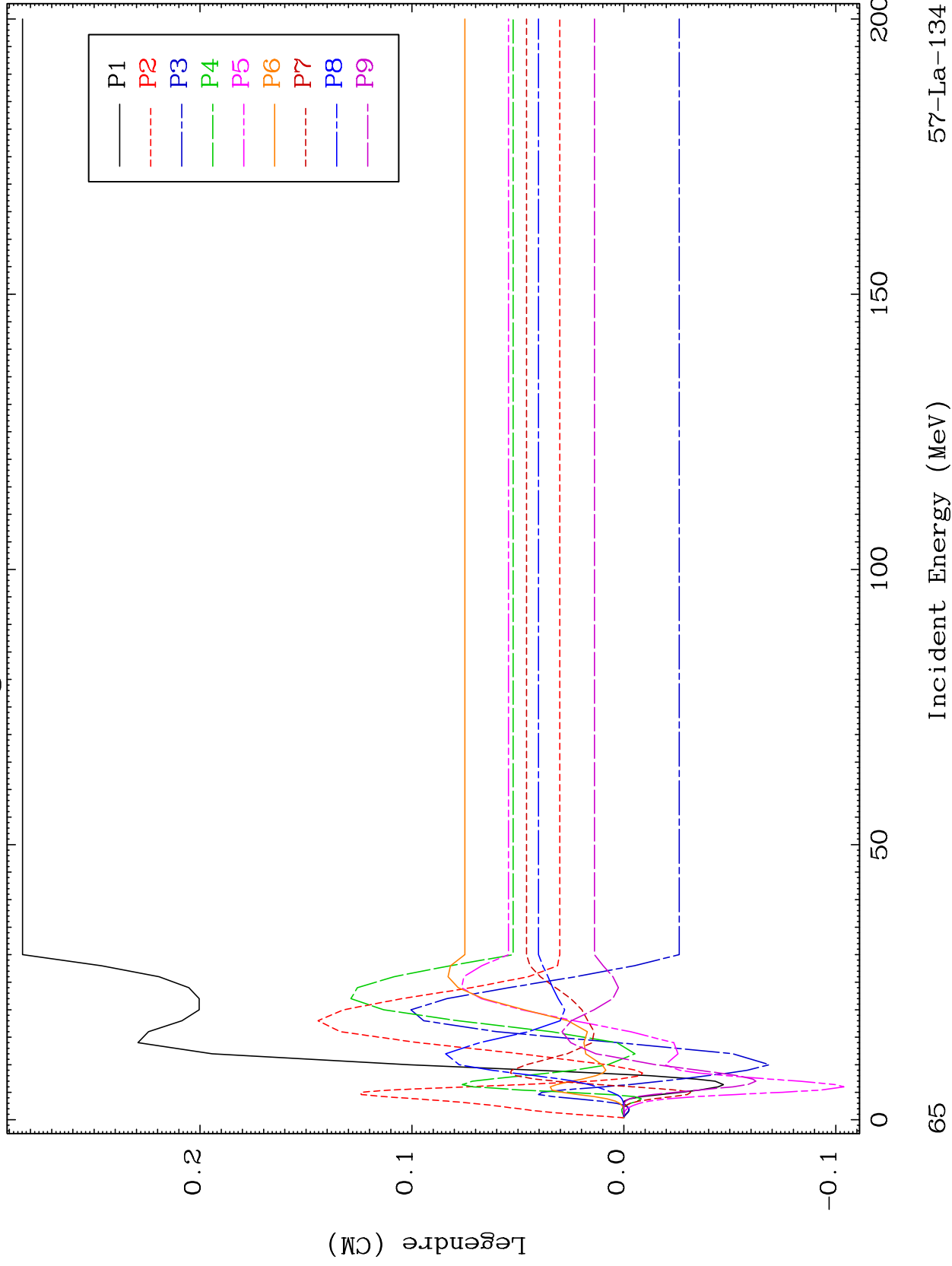




MAT 5713

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

57-La-134



57-La-134

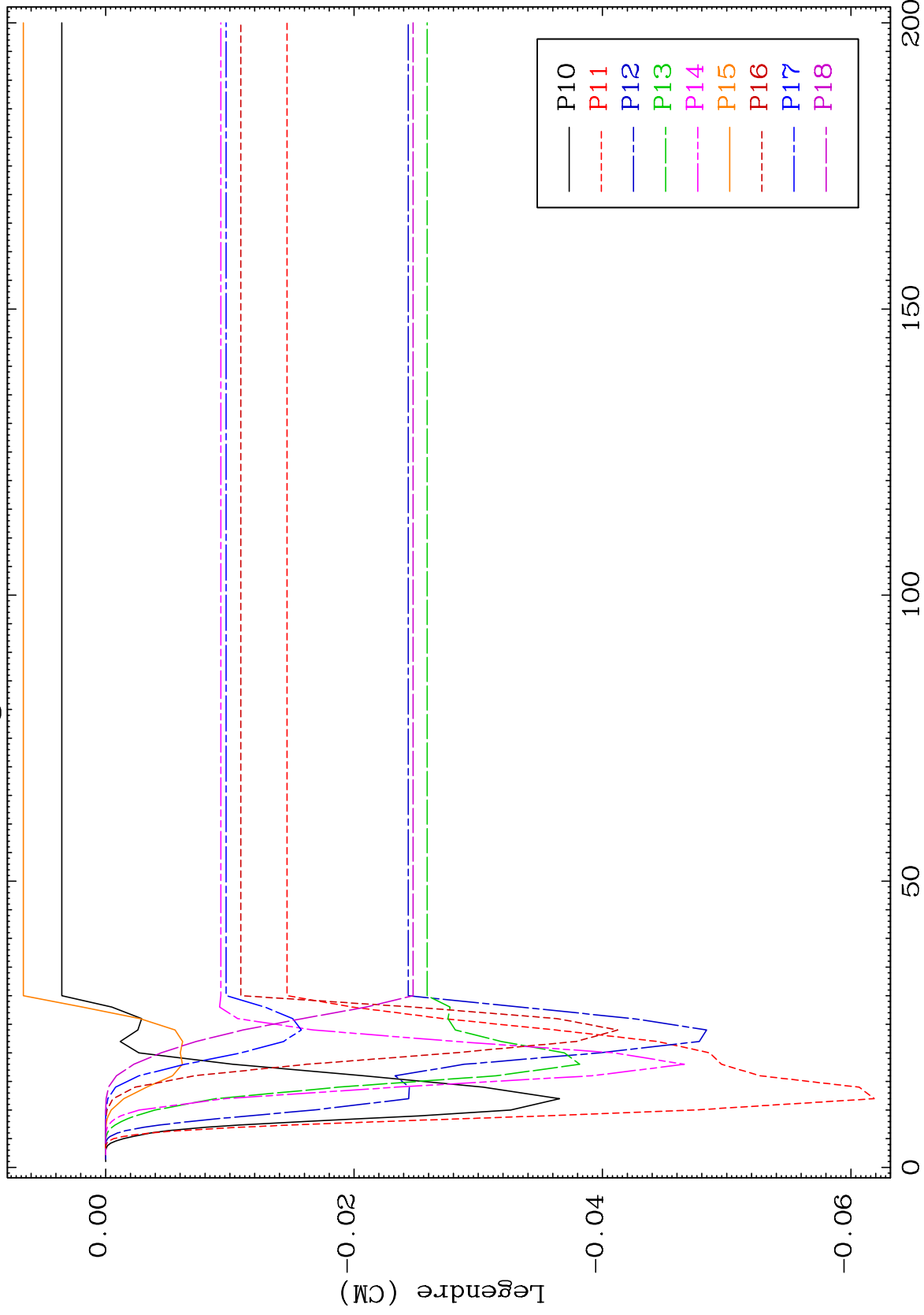
Incident Energy (MeV)

65

MAT 5713

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

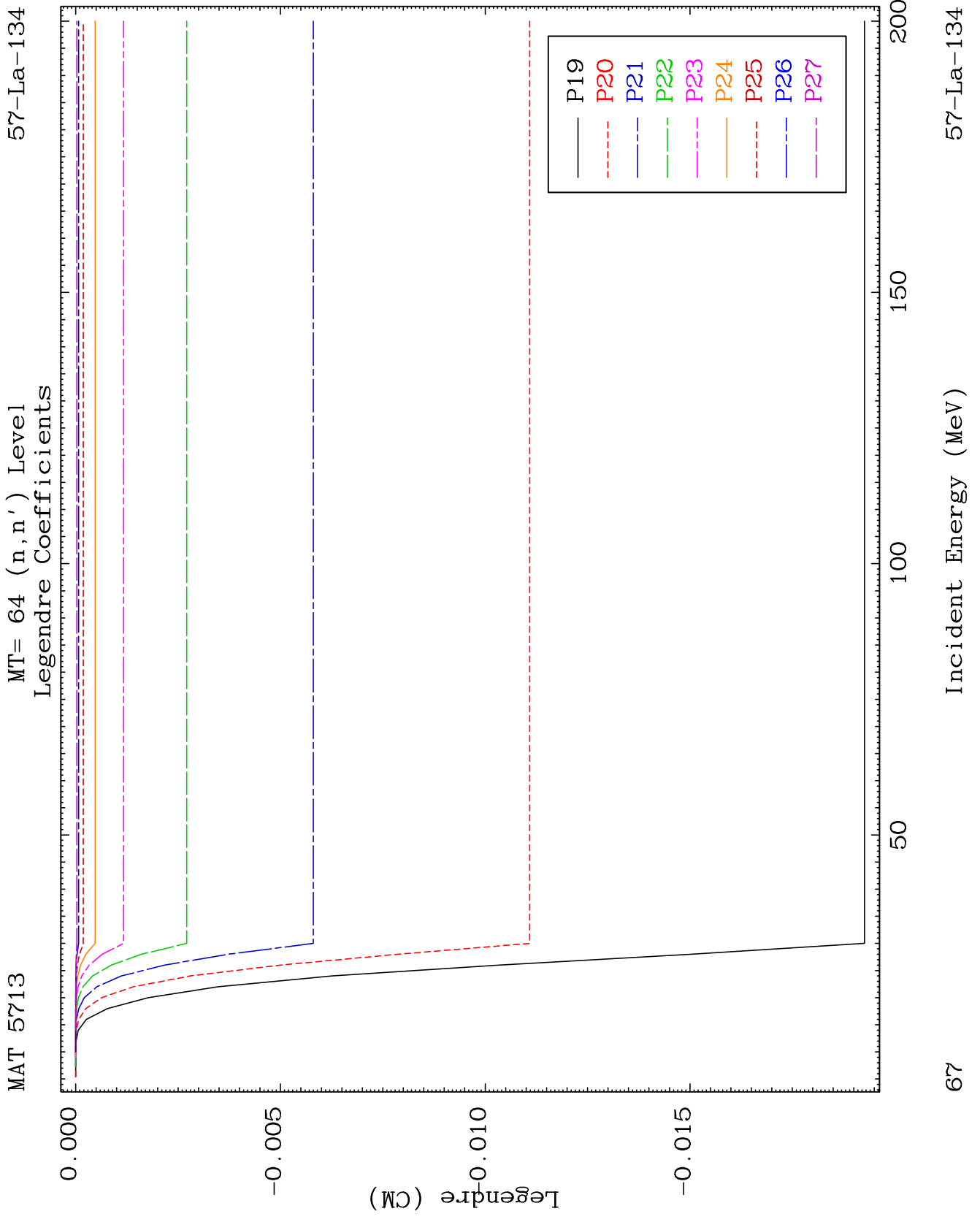
57-La-134

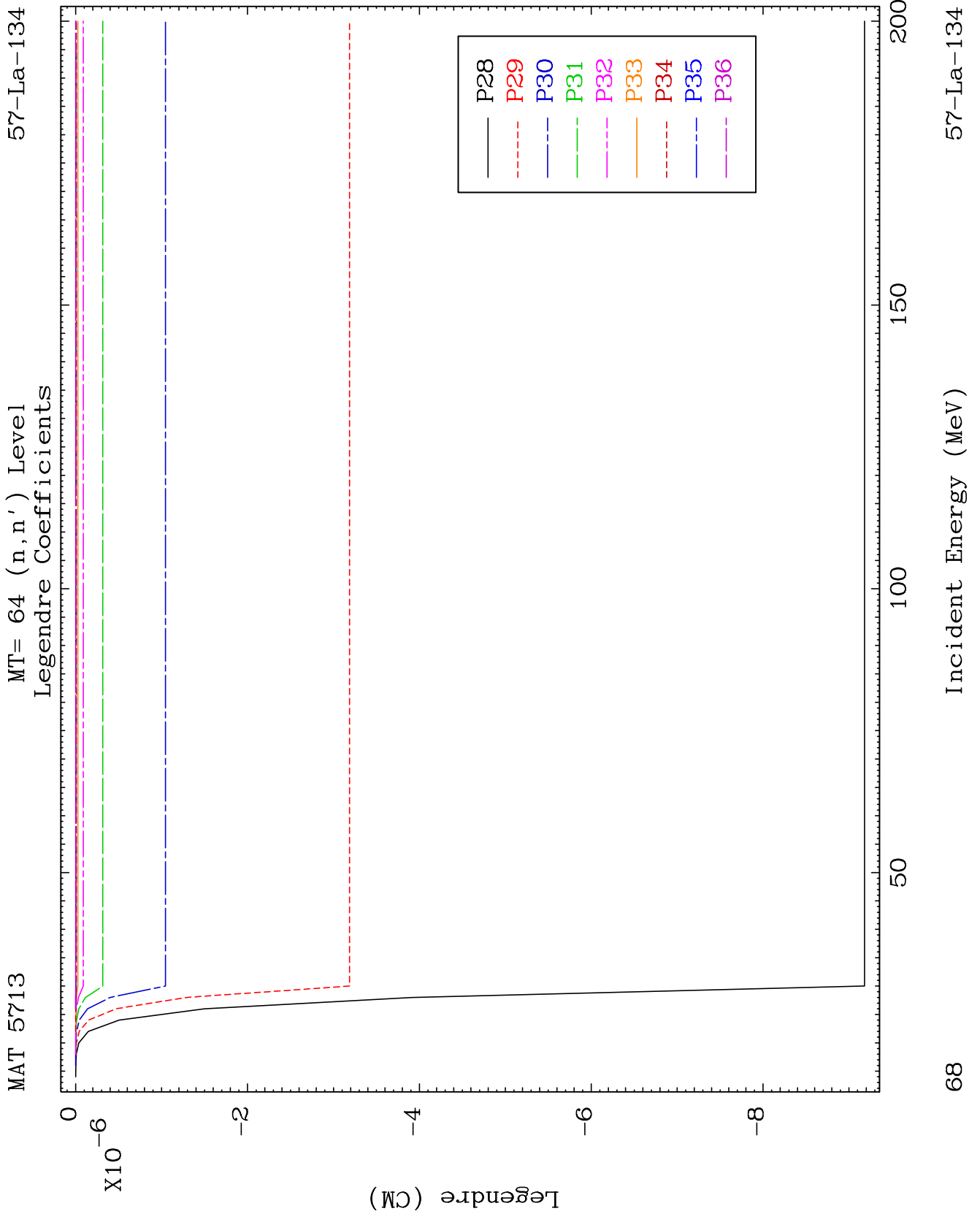


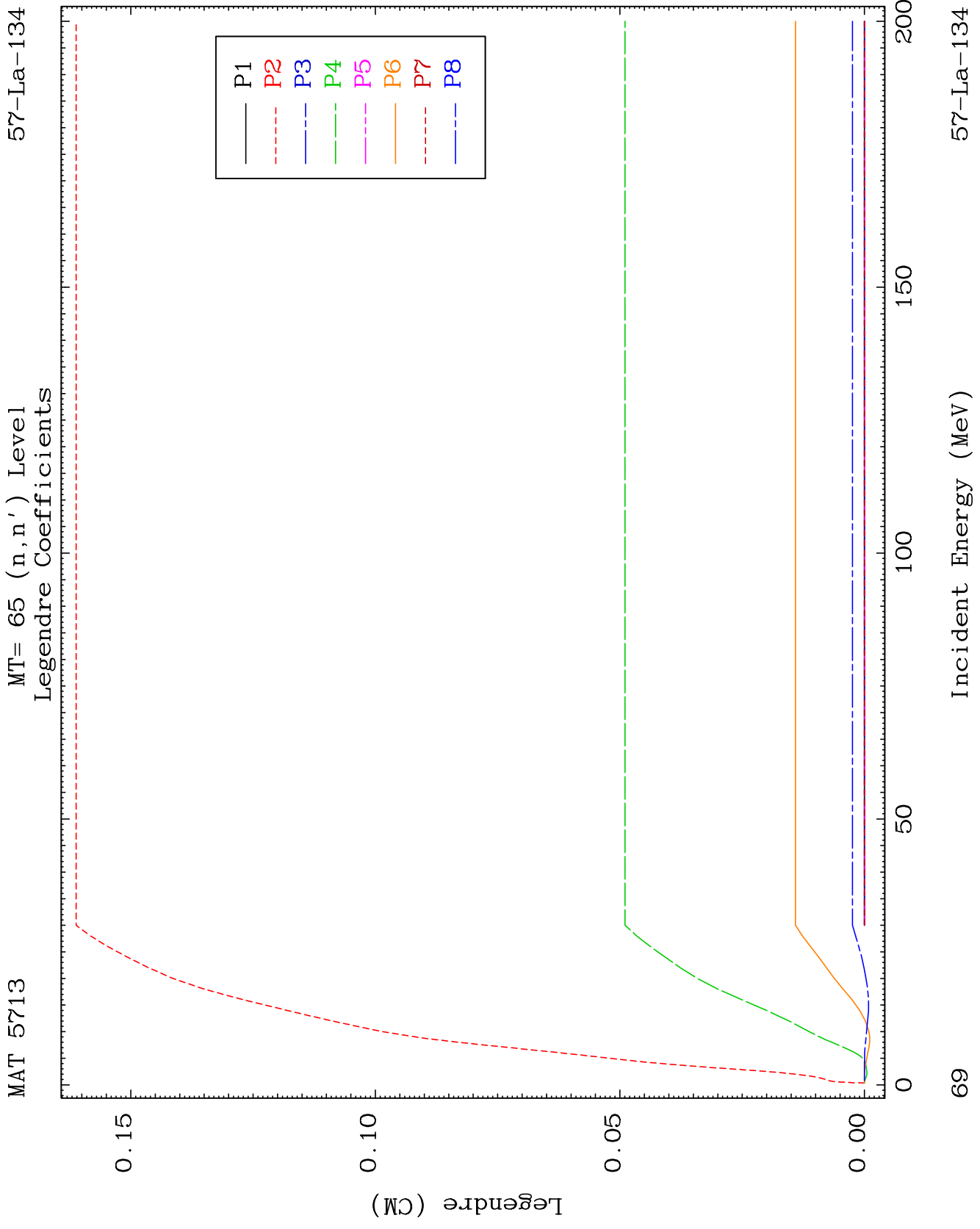
66

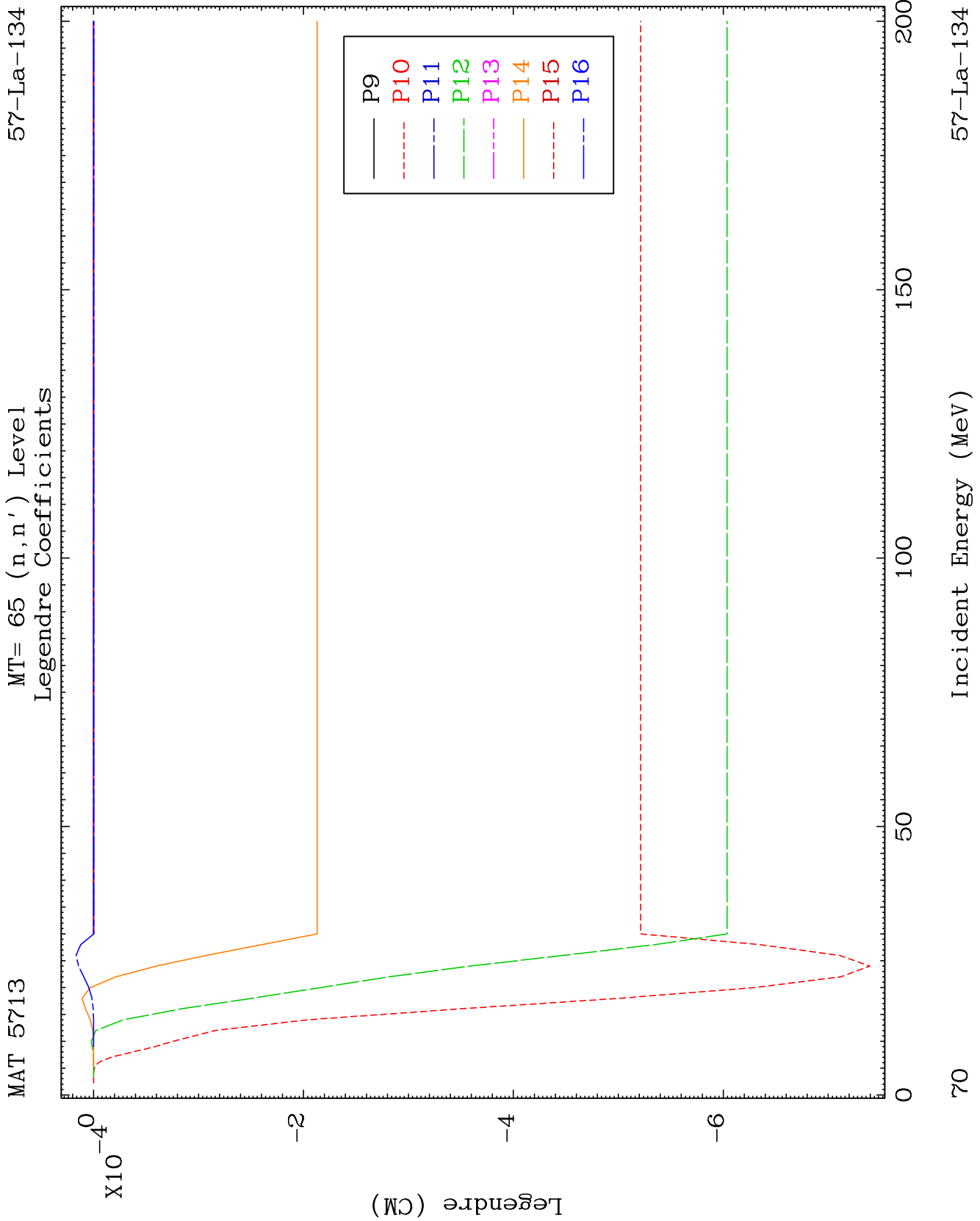
Incident Energy (MeV)

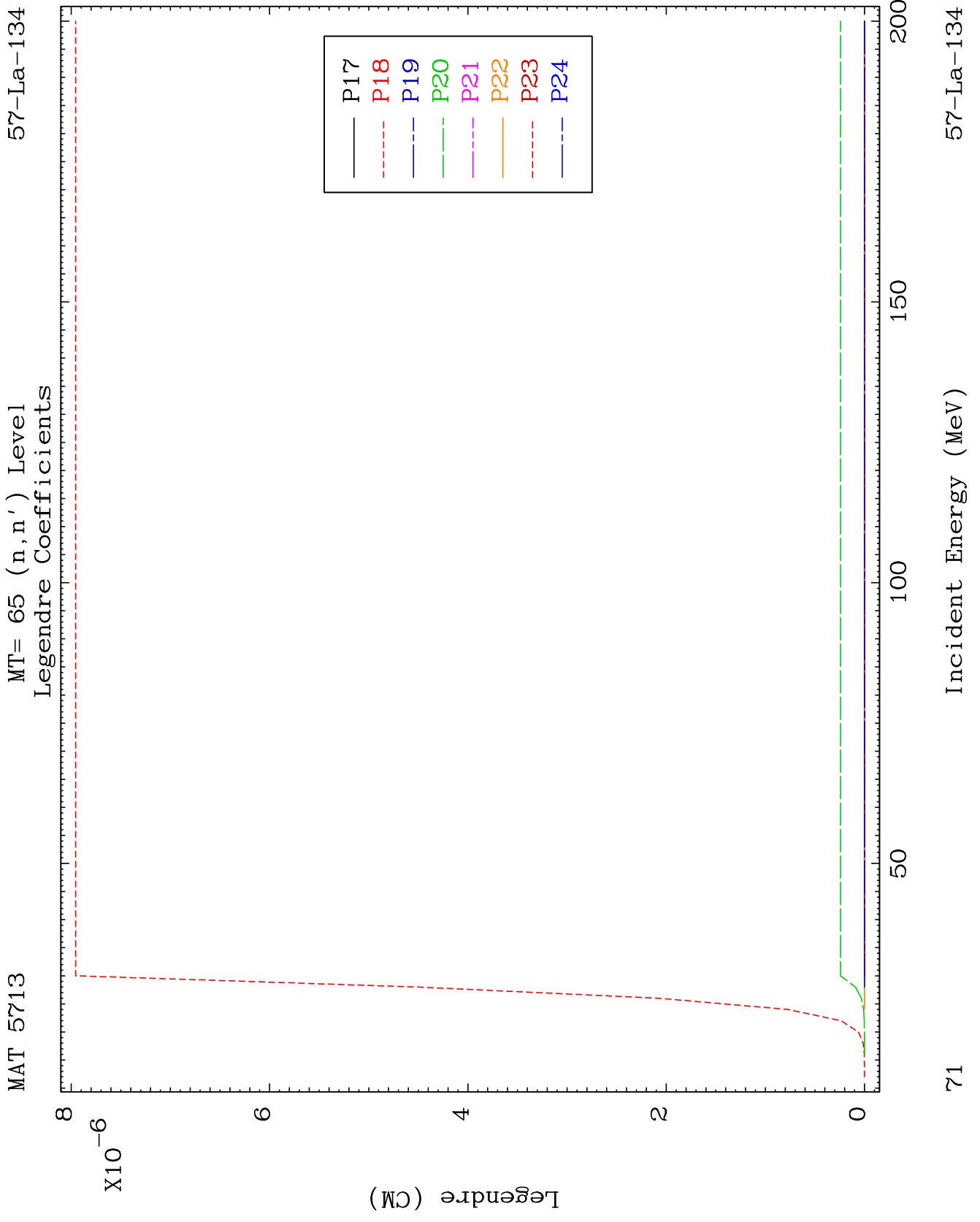
57-La-134



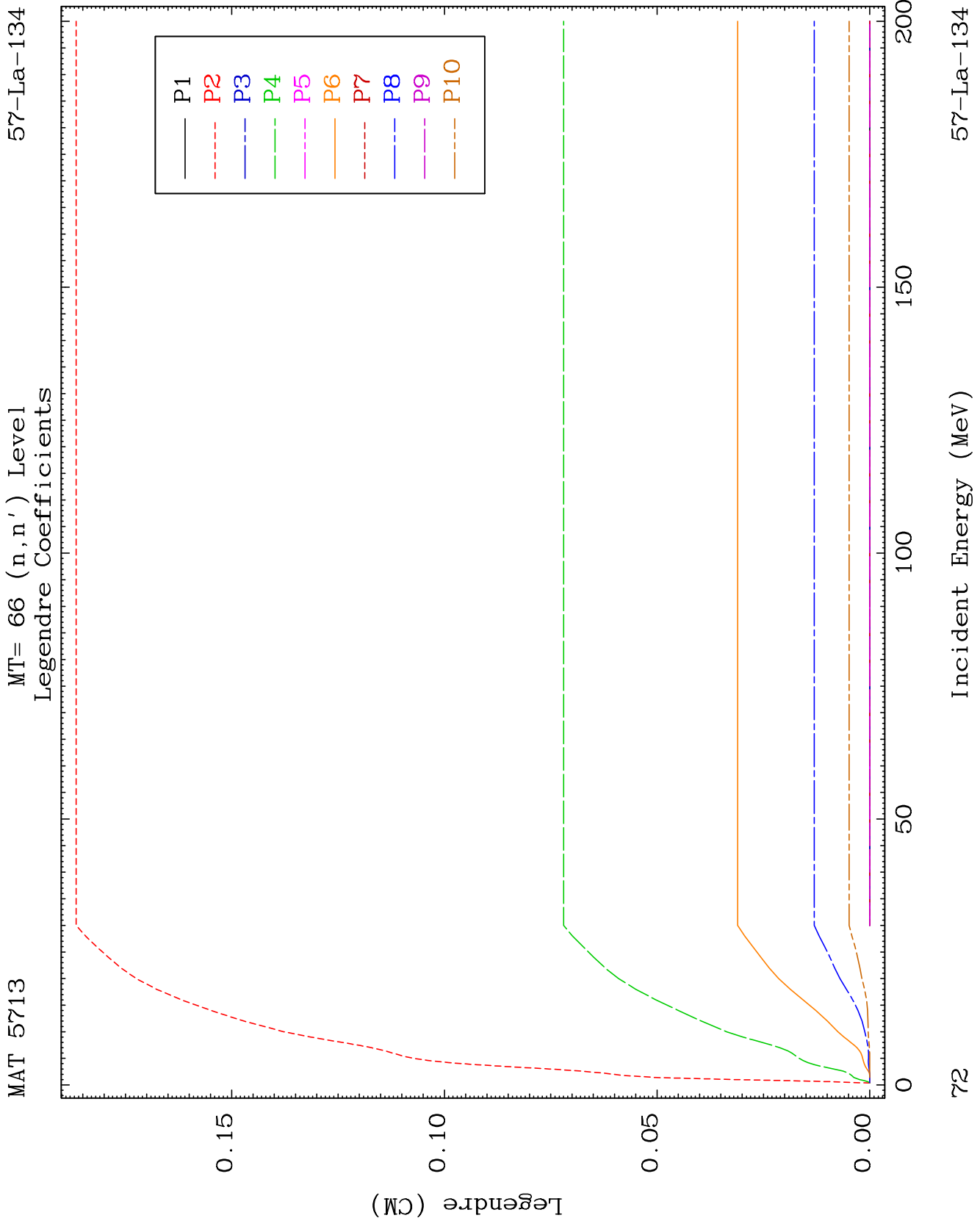




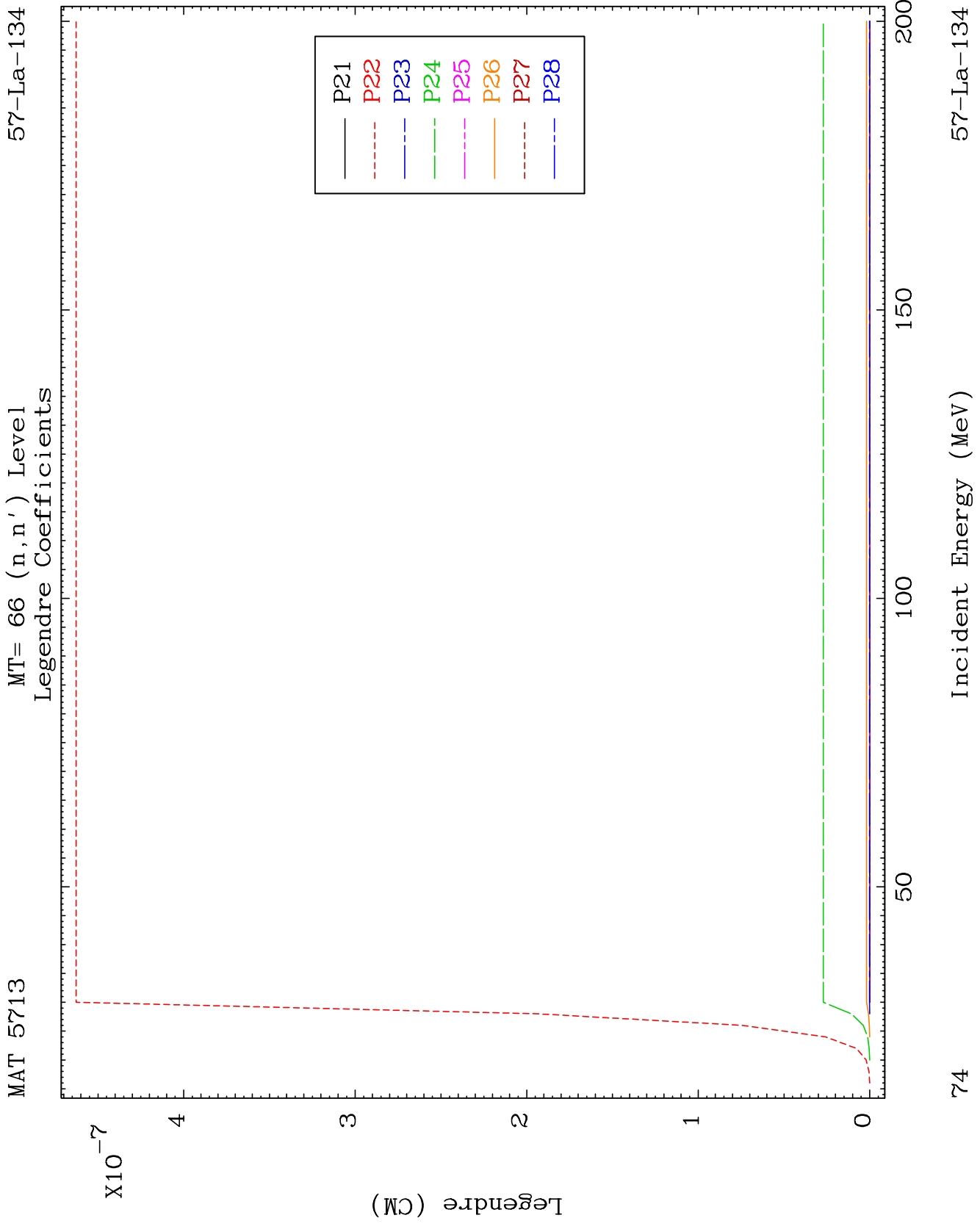


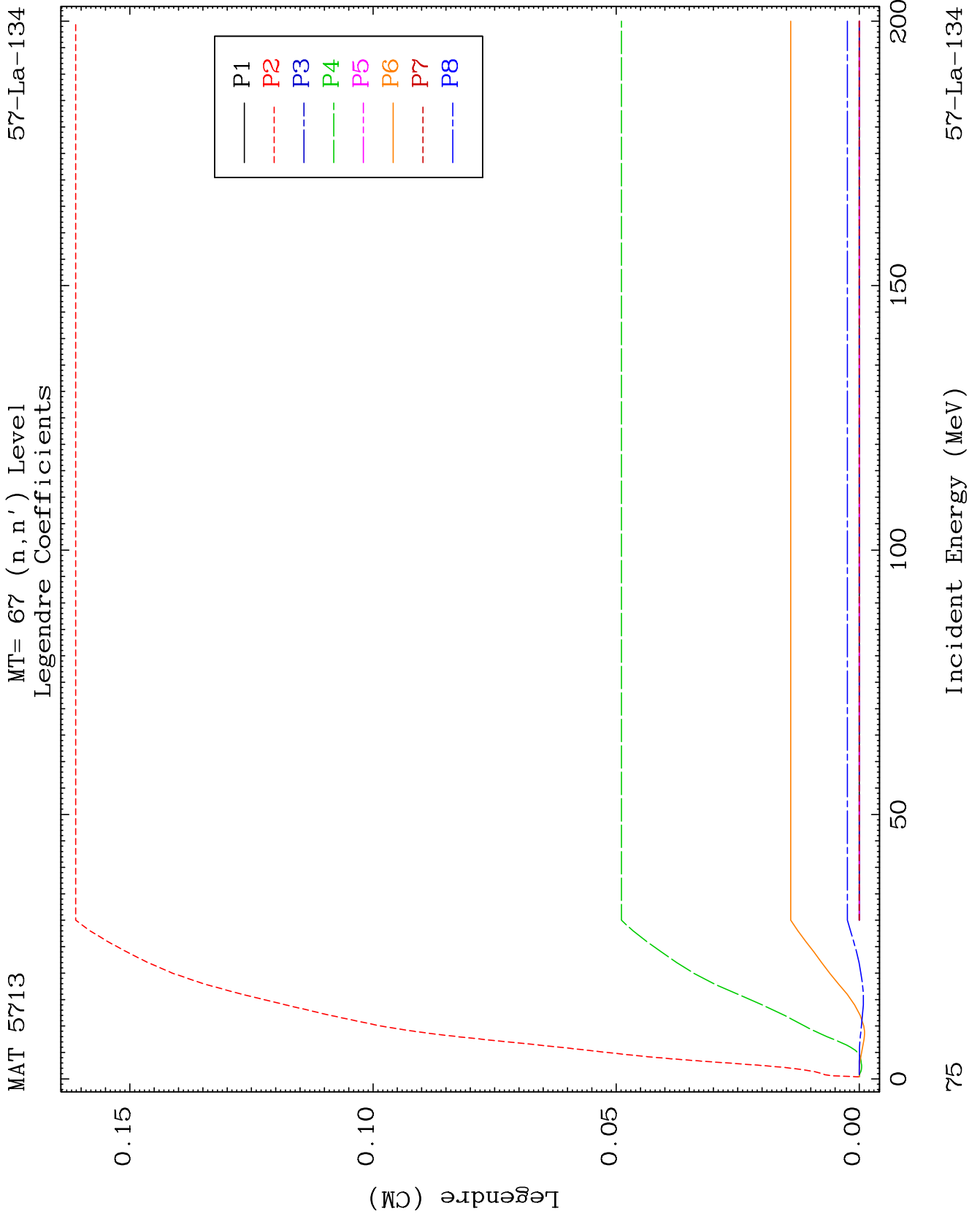


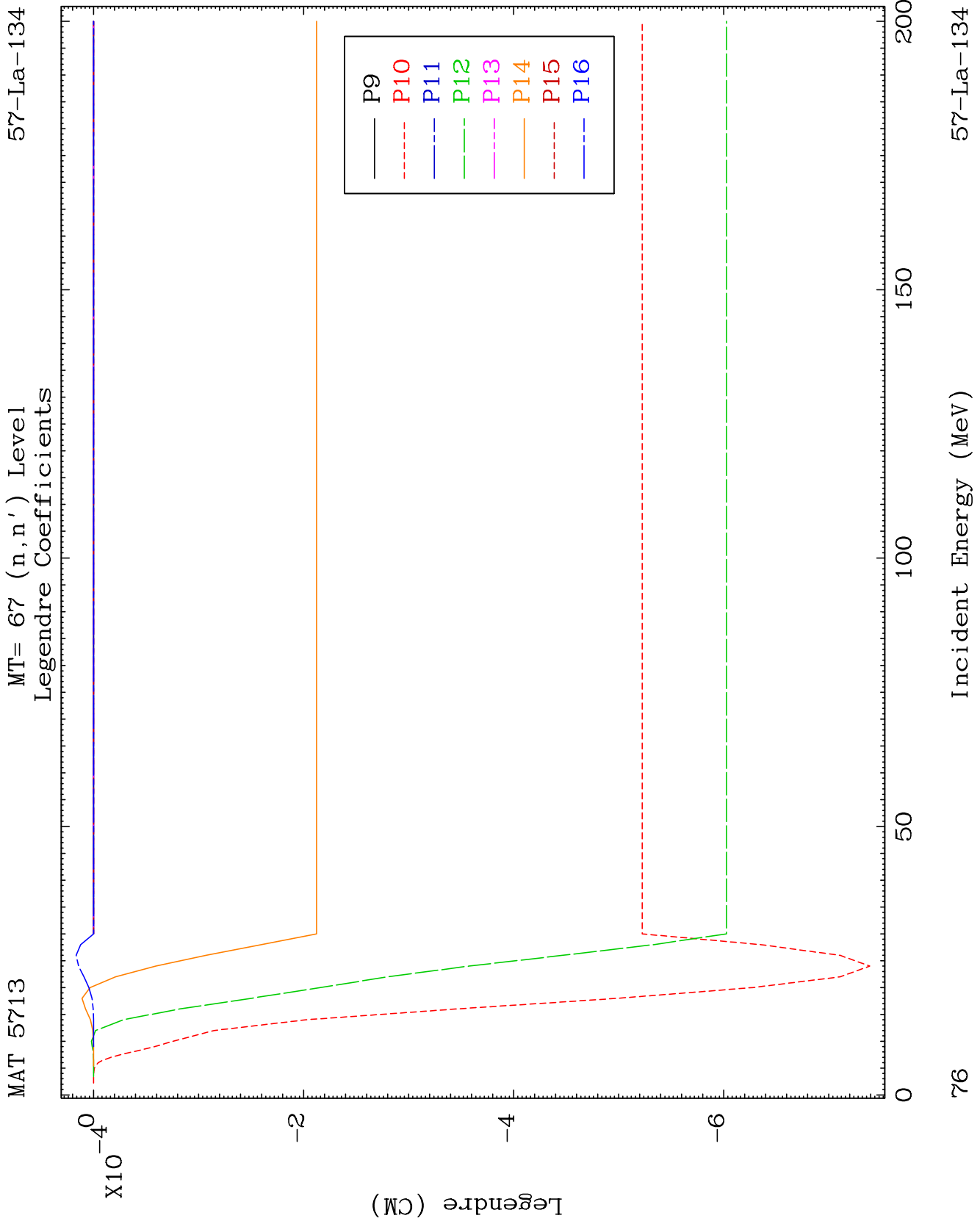


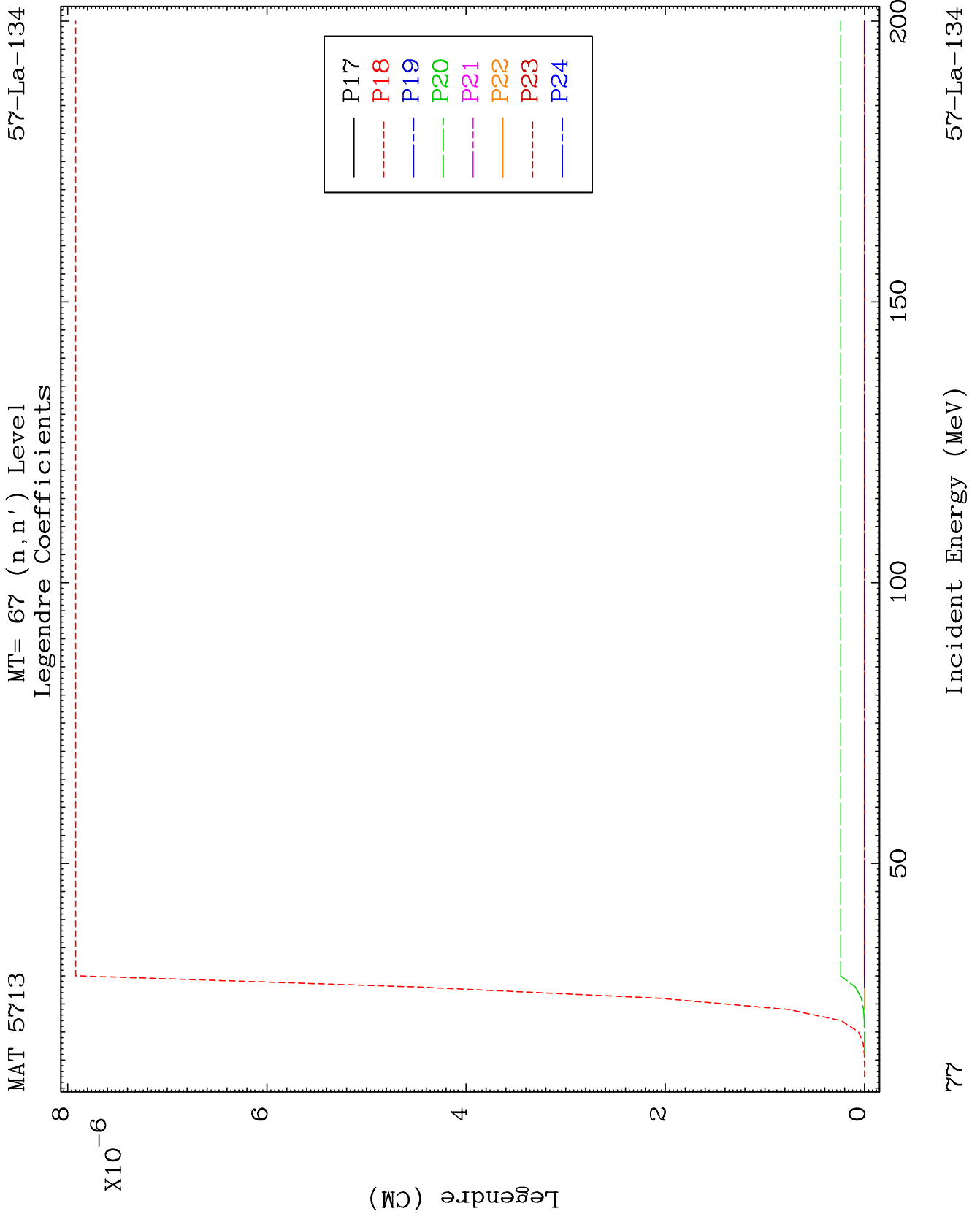




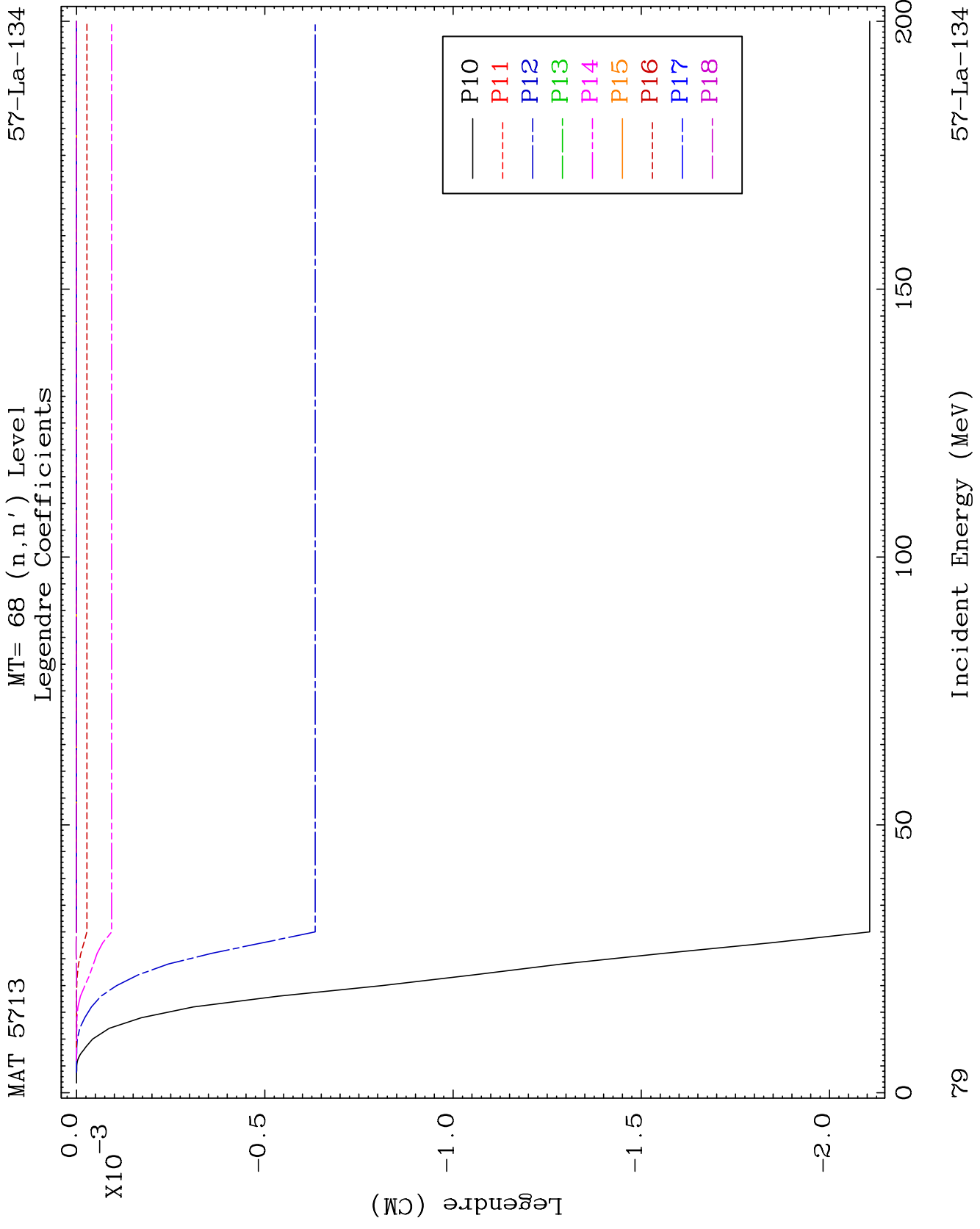




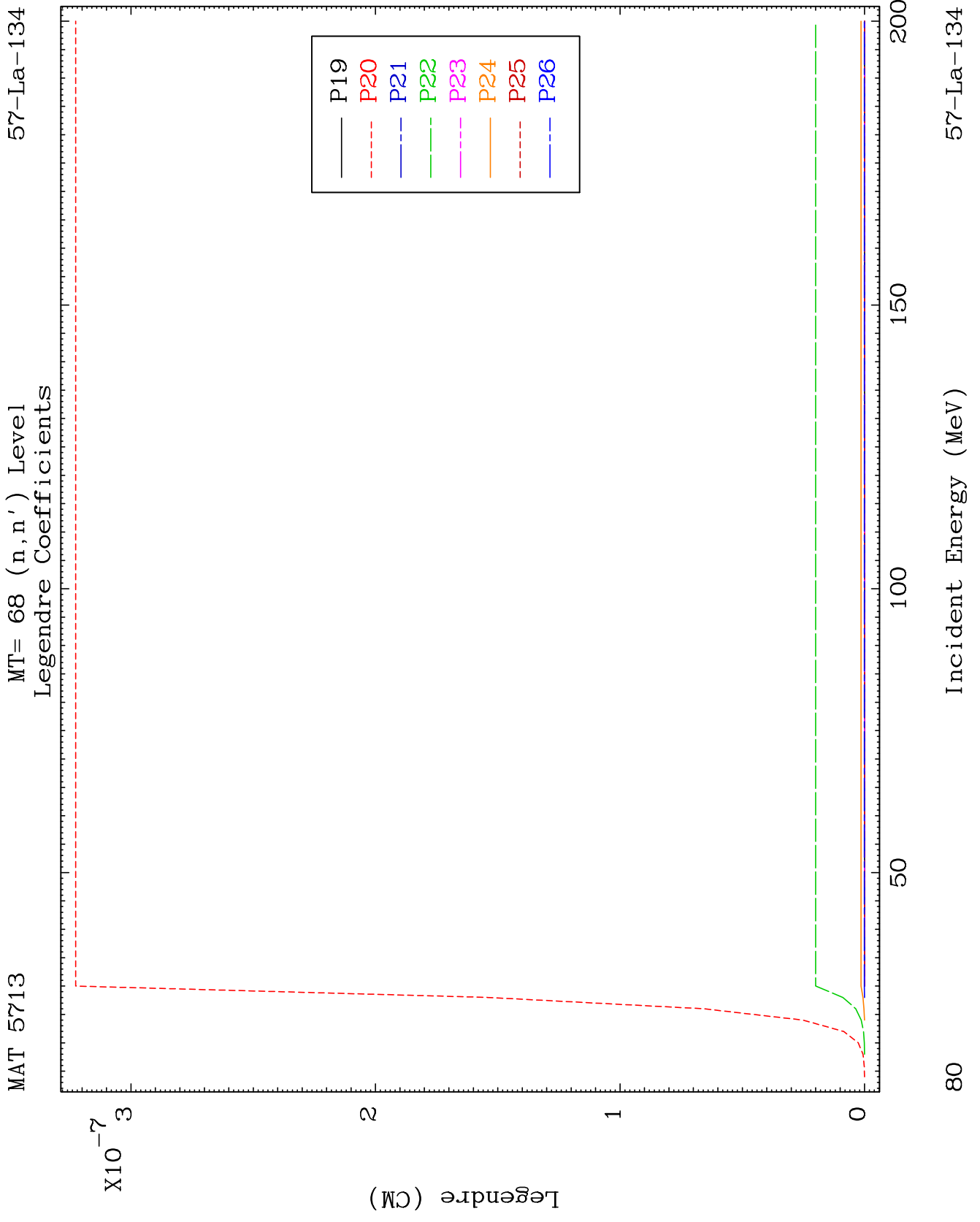










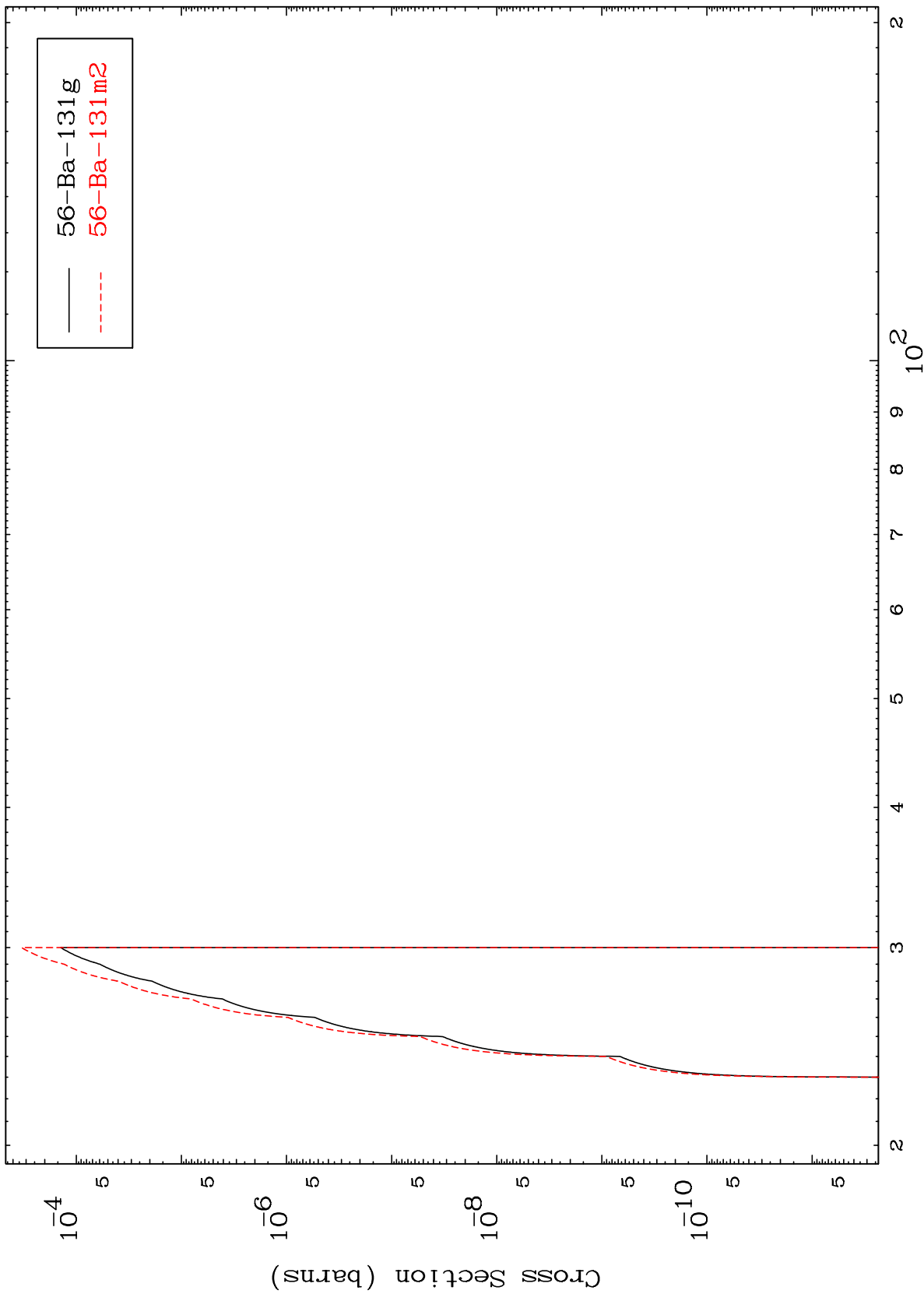


MAT 5713

(n,2n) d

57-La-134

Radionuclide Production Cross Section



81

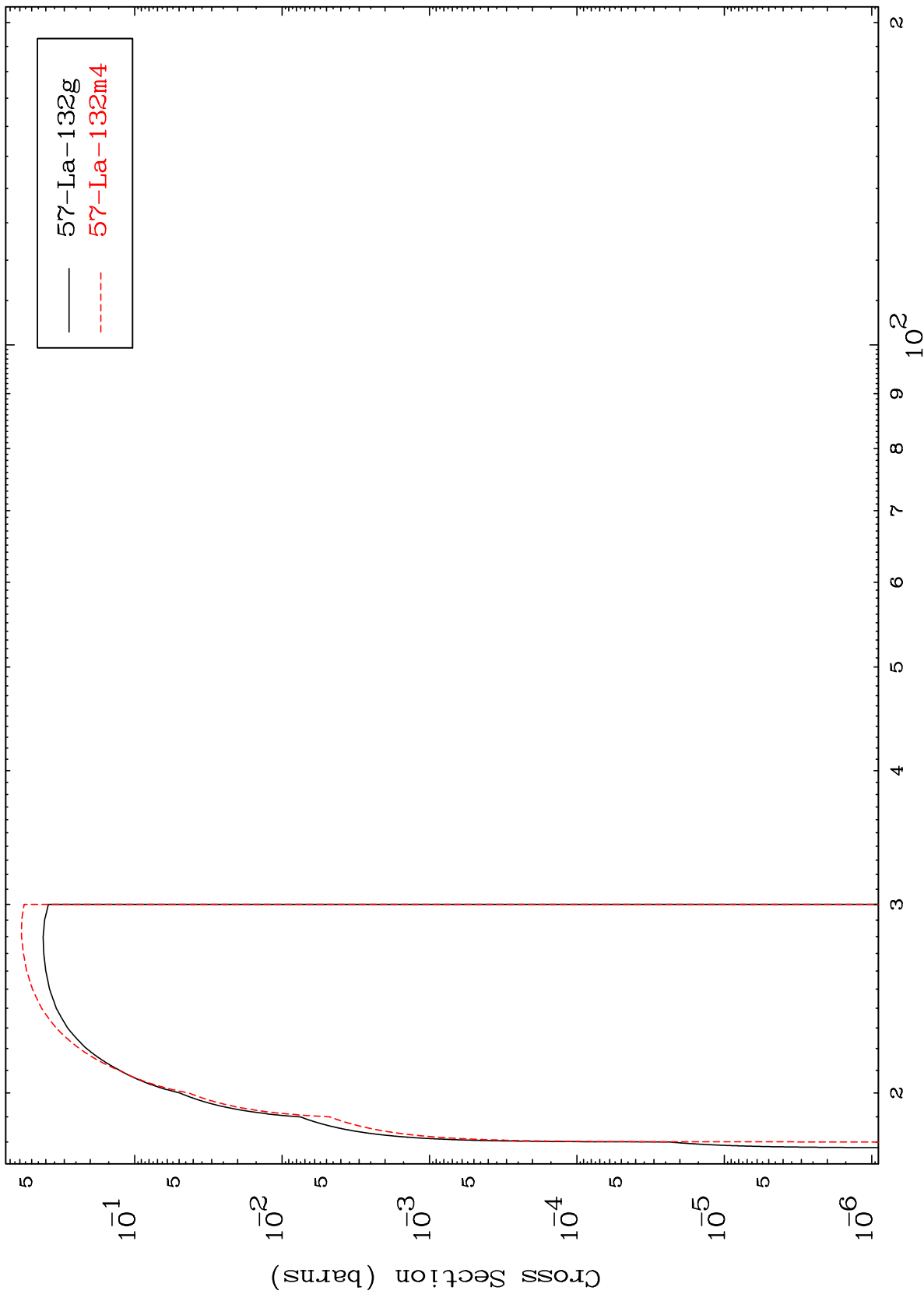
Incident Energy (MeV)

57-La-134

MAT 5713

57-La-134

(n,3n)  
Radionuclide Production Cross Section



57-La-132g  
57-La-132m4

82

57-La-134

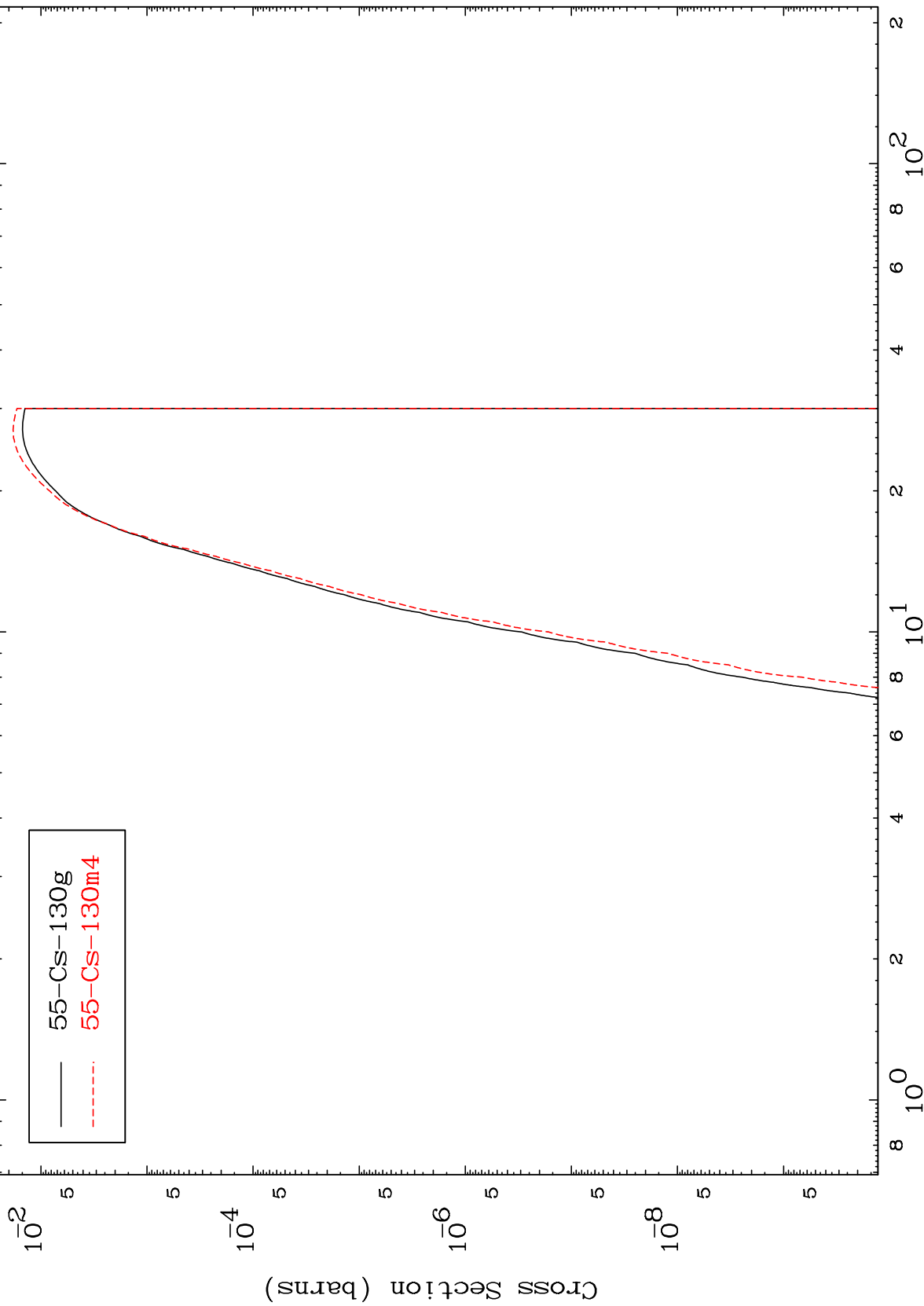
Incident Energy (MeV)

MAT 5713

(n,n')  $\alpha$

57-La-134

Radionuclide Production Cross Section



55-Cs-130g  
55-Cs-130m4

83

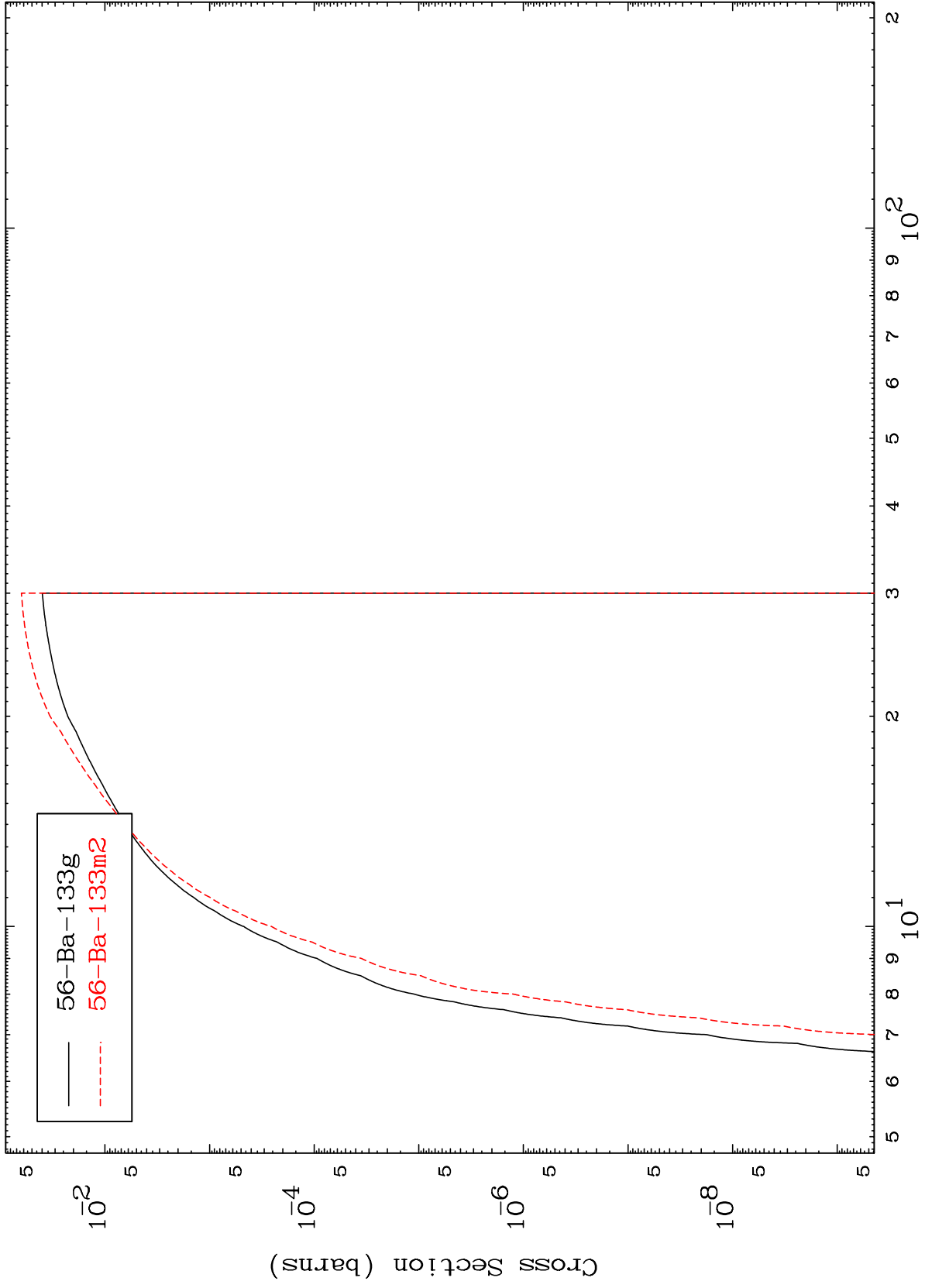
Incident Energy (MeV)

57-La-134

MAT 5713

57-La-134

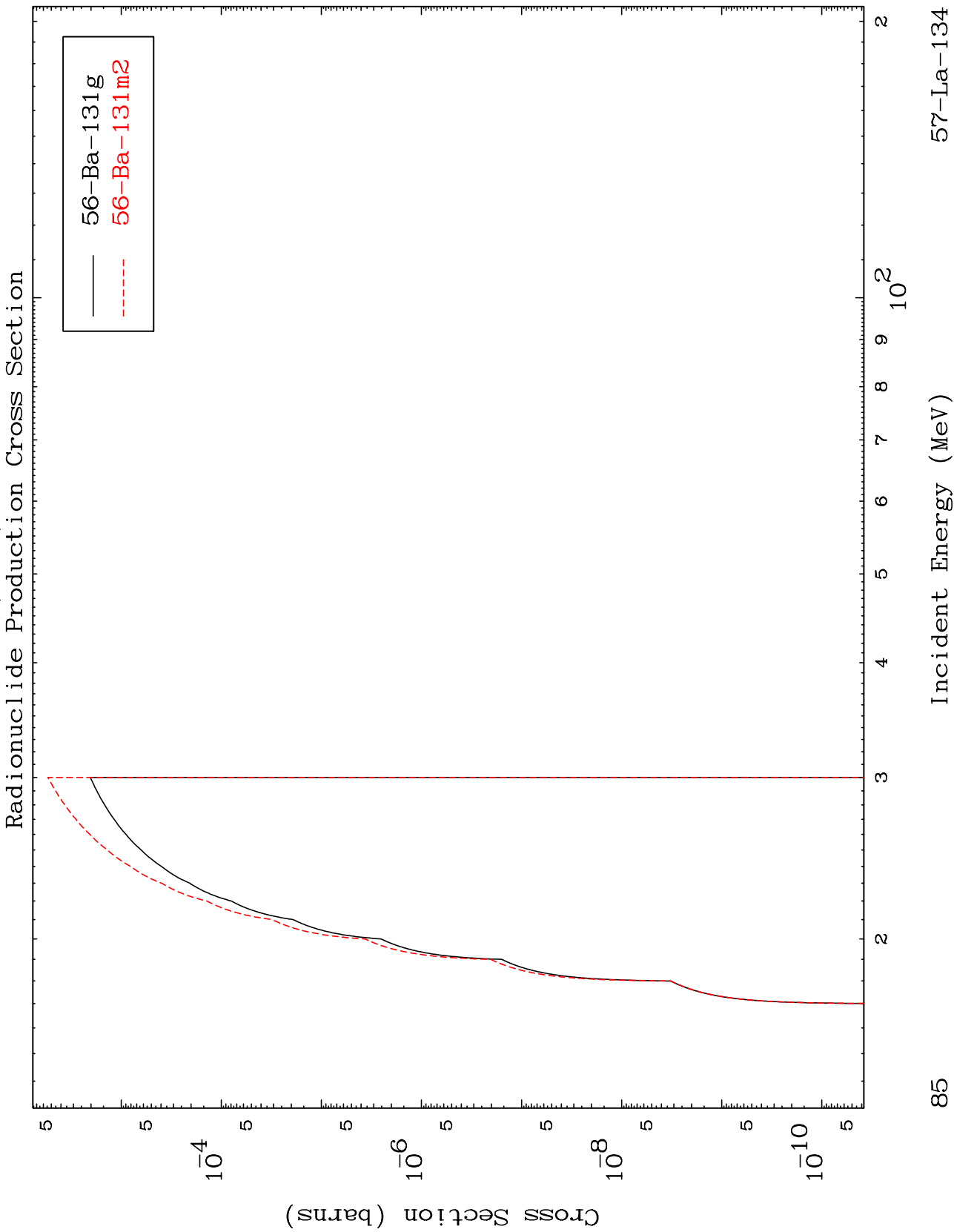
(n,n') p  
Radionuclide Production Cross Section



84

Incident Energy (MeV)

57-La-134

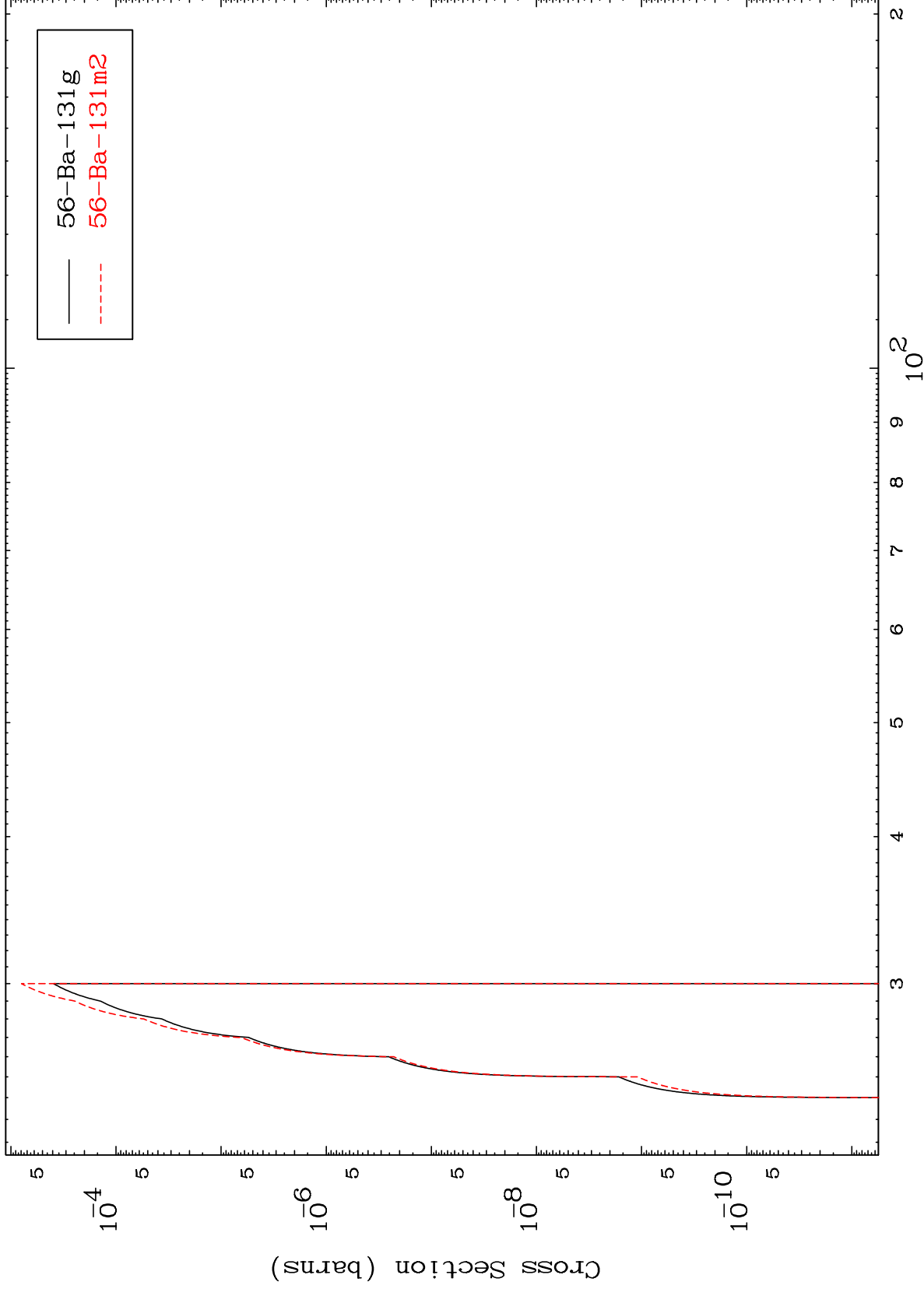


MAT 5713

(n,3n) p

57-La-134

Radionuclide Production Cross Section



86

Incident Energy (MeV)

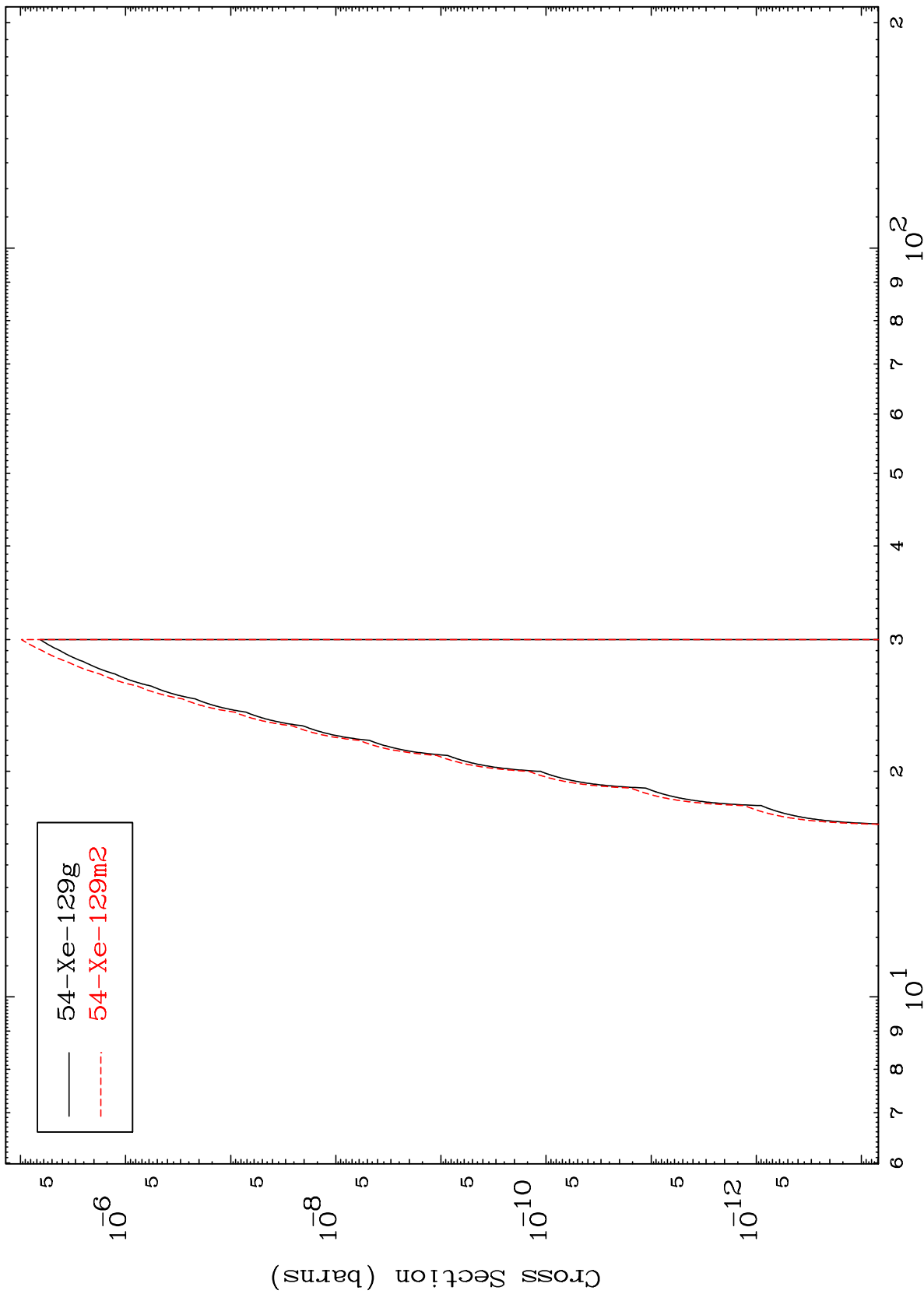
57-La-134

MAT 5713

(n,n') p  $\alpha$

57-La-134

Radionuclide Production Cross Section



87

Incident Energy (MeV)

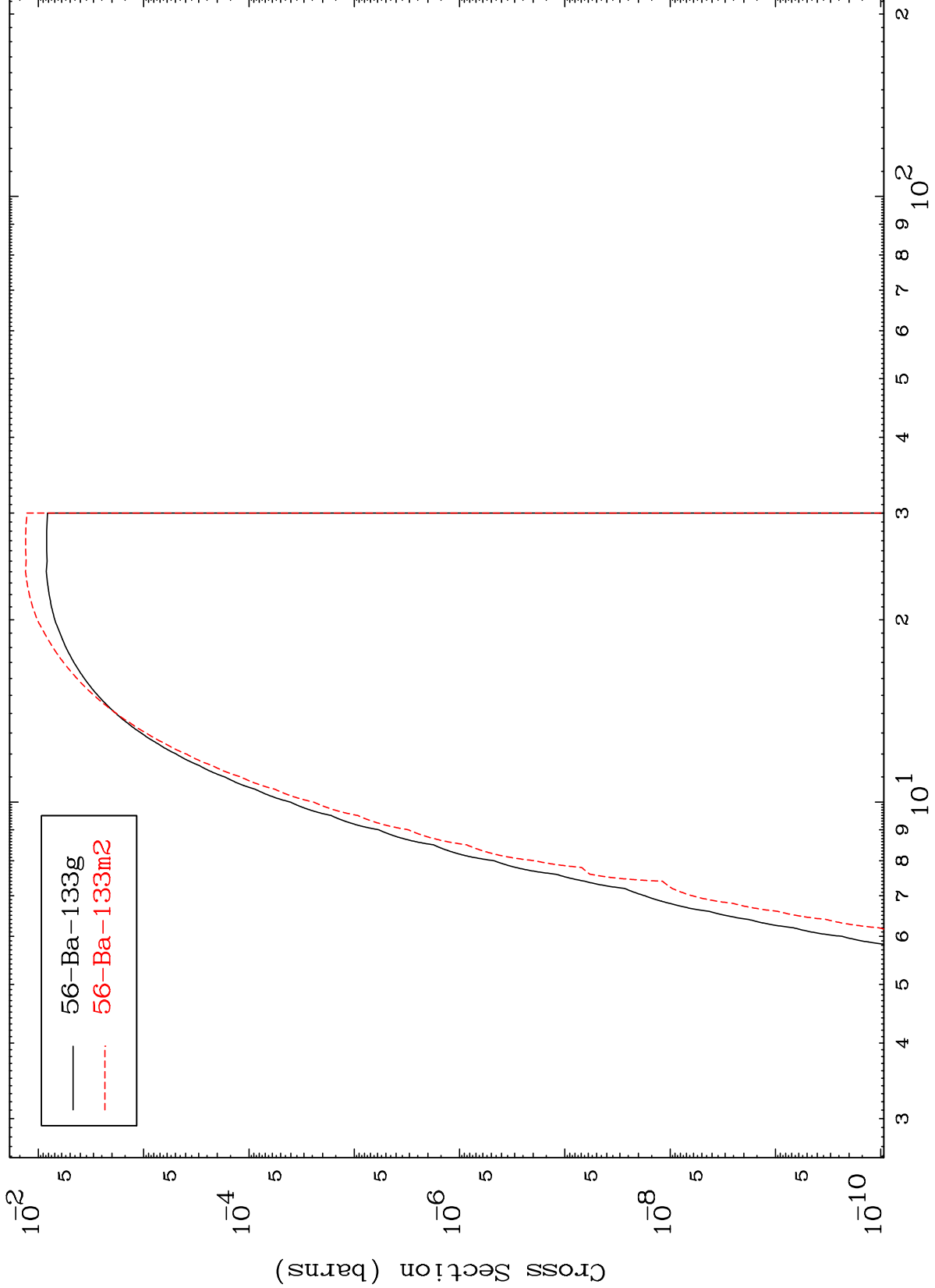
57-La-134



MAT 5713

57-La-134

(n,d)  
Radionuclide Production Cross Section



88

Incident Energy (MeV)

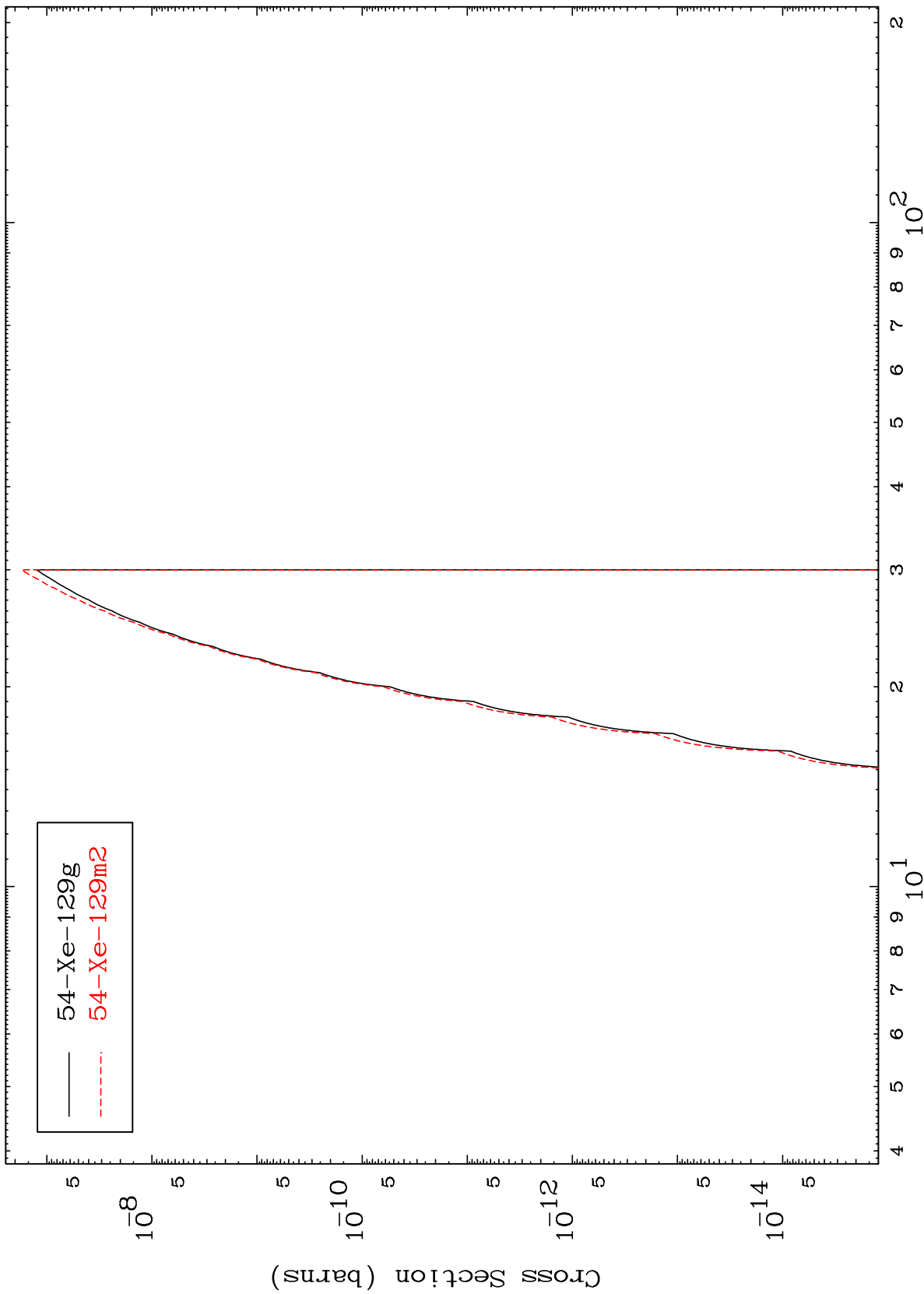
57-La-134

MAT 5713

(n,d)  $\alpha$

57-La-134

Radionuclide Production Cross Section



89

Incident Energy (MeV)

57-La-134