

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

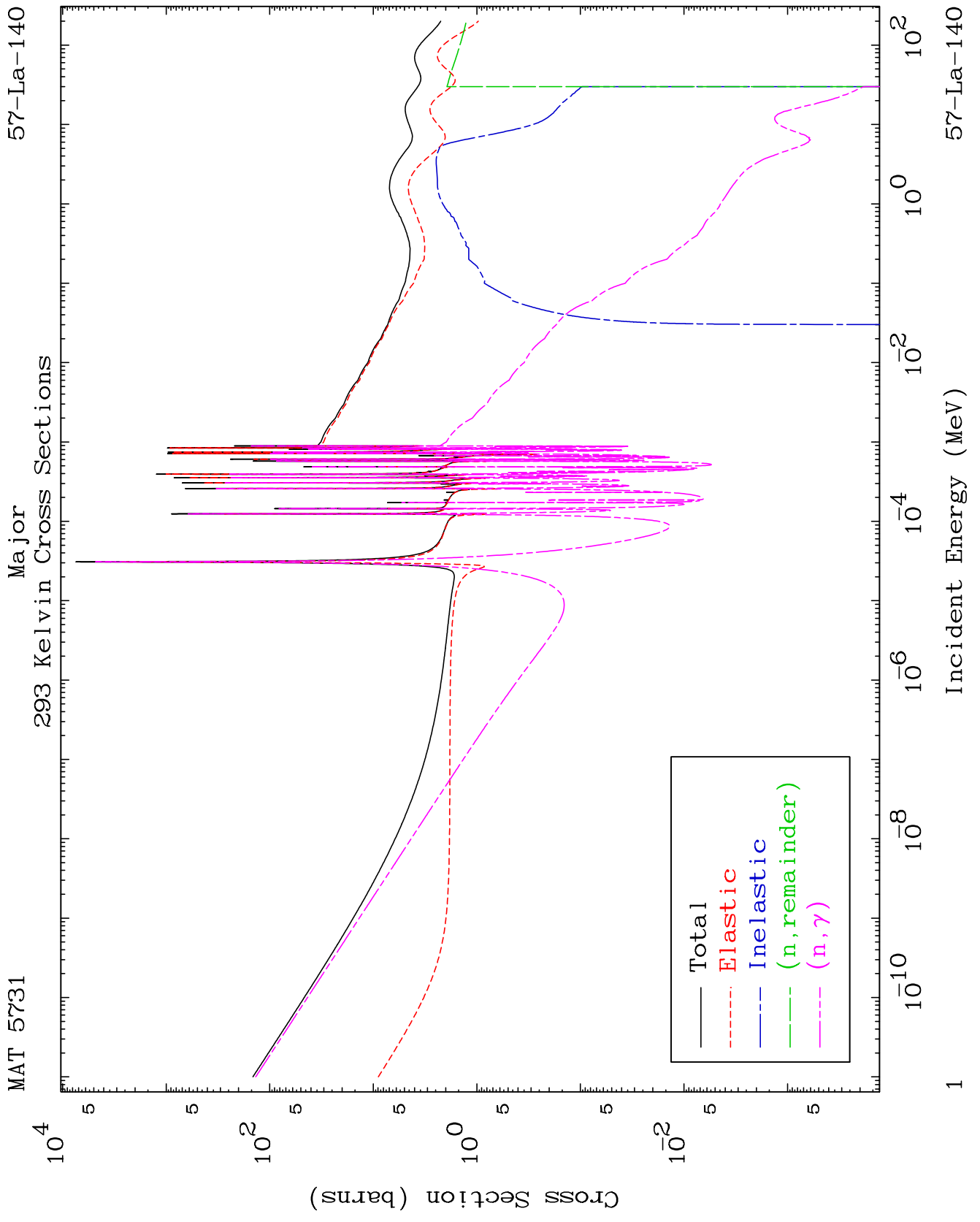
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

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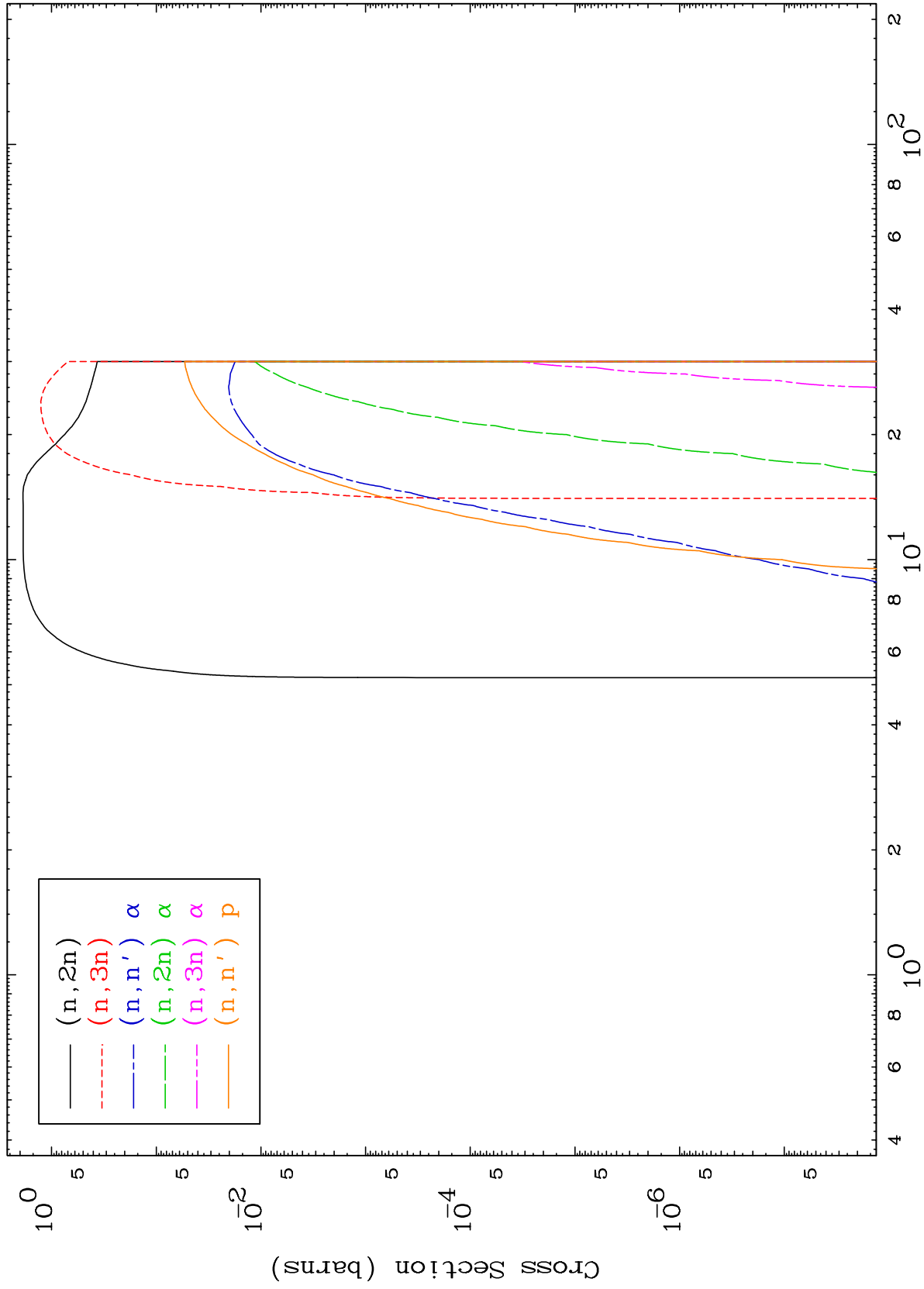
Press Mouse Button to Start



MAT 5731

Neutron Production  
293 Kelvin Cross Sections

57-La-140



2

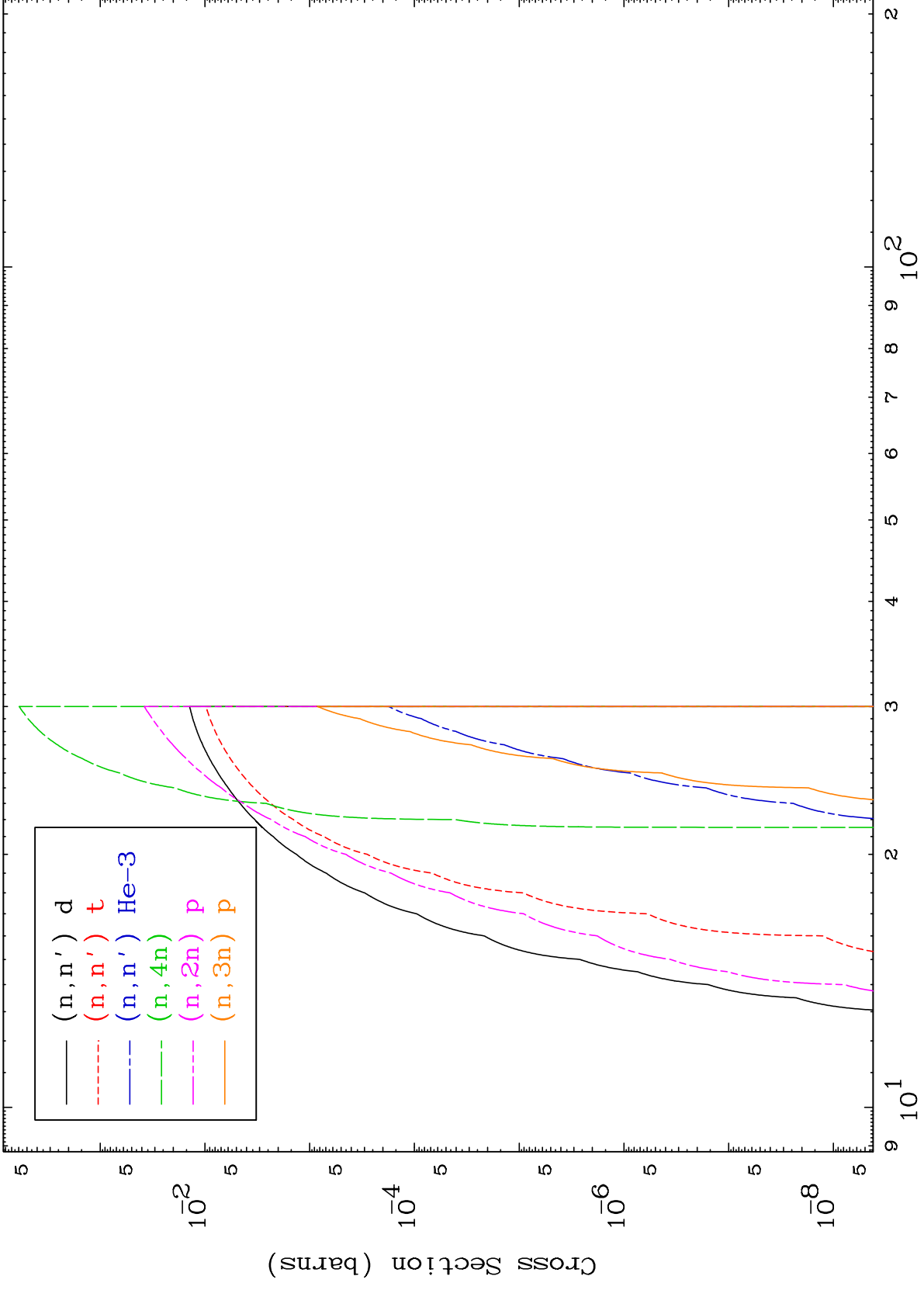
Incident Energy (MeV)

57-La-140

MAT 5731

Neutron Production  
293 Kelvin Cross Sections

57-La-140



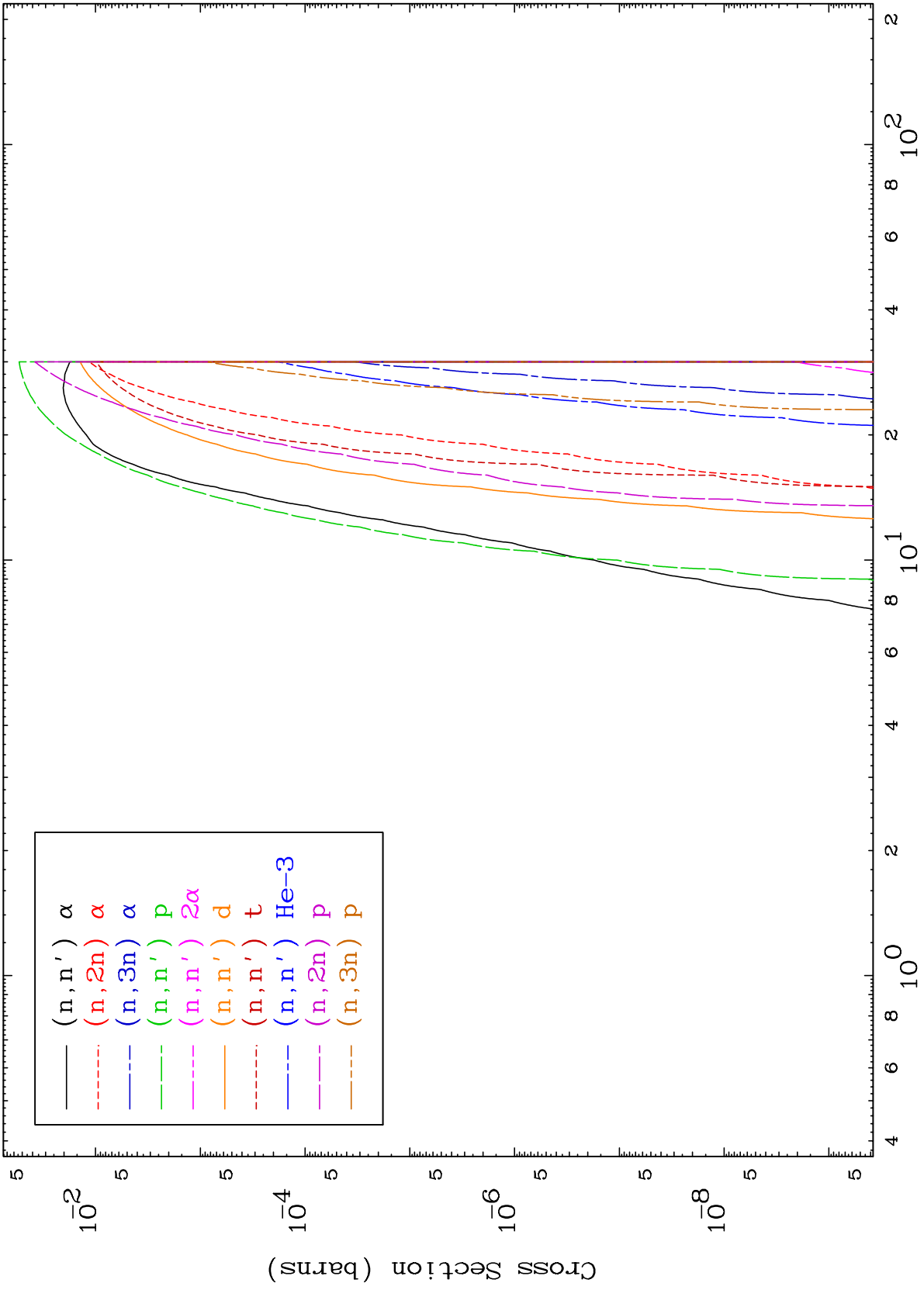
Incident Energy (MeV)

57-La-140

MAT 5731

Charged Particle  
293 Kelvin Cross Sections

57-La-140



4

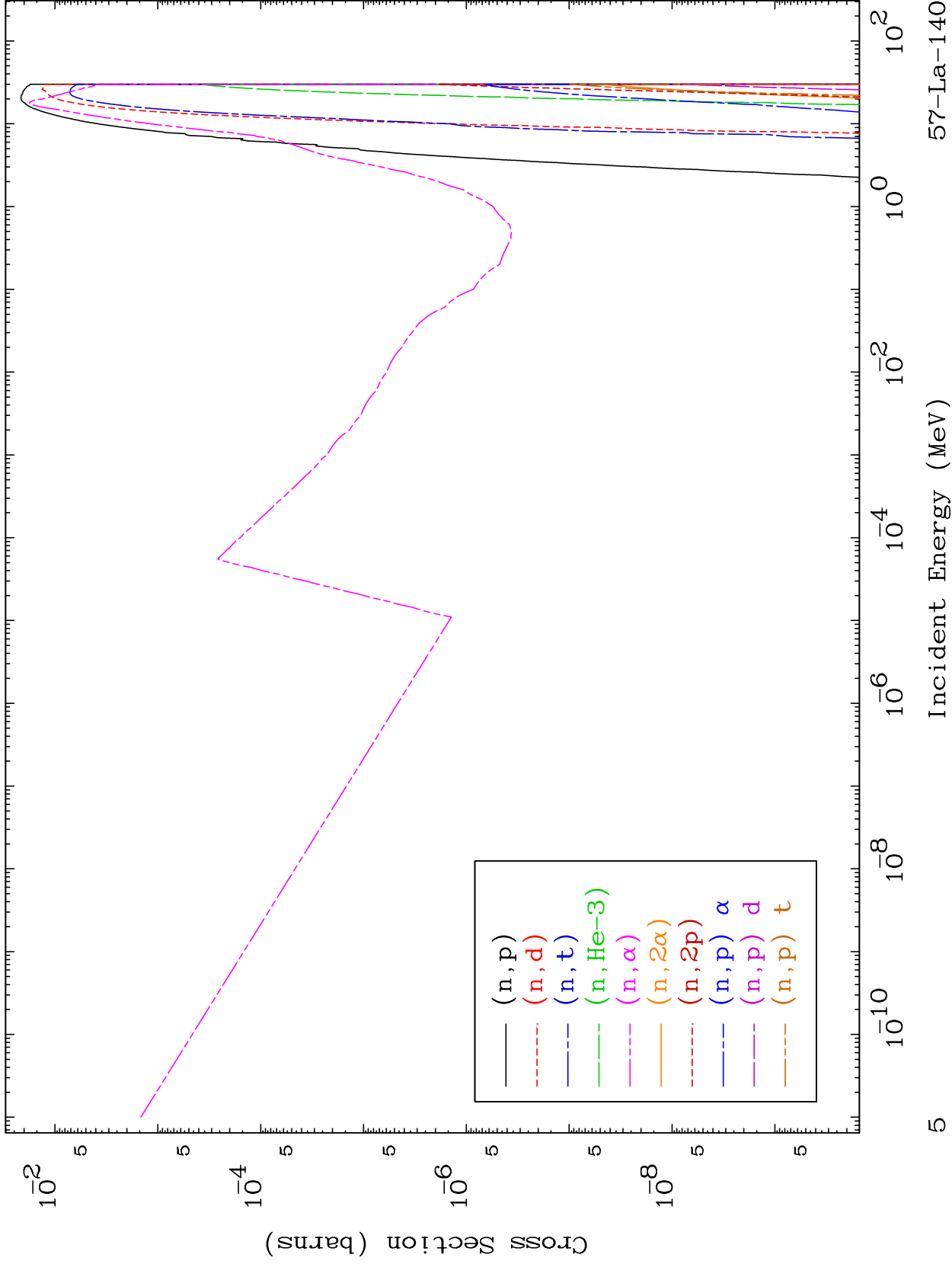
Incident Energy (MeV)

57-La-140

MAT 5731

Charged Particle  
293 Kelvin Cross Sections

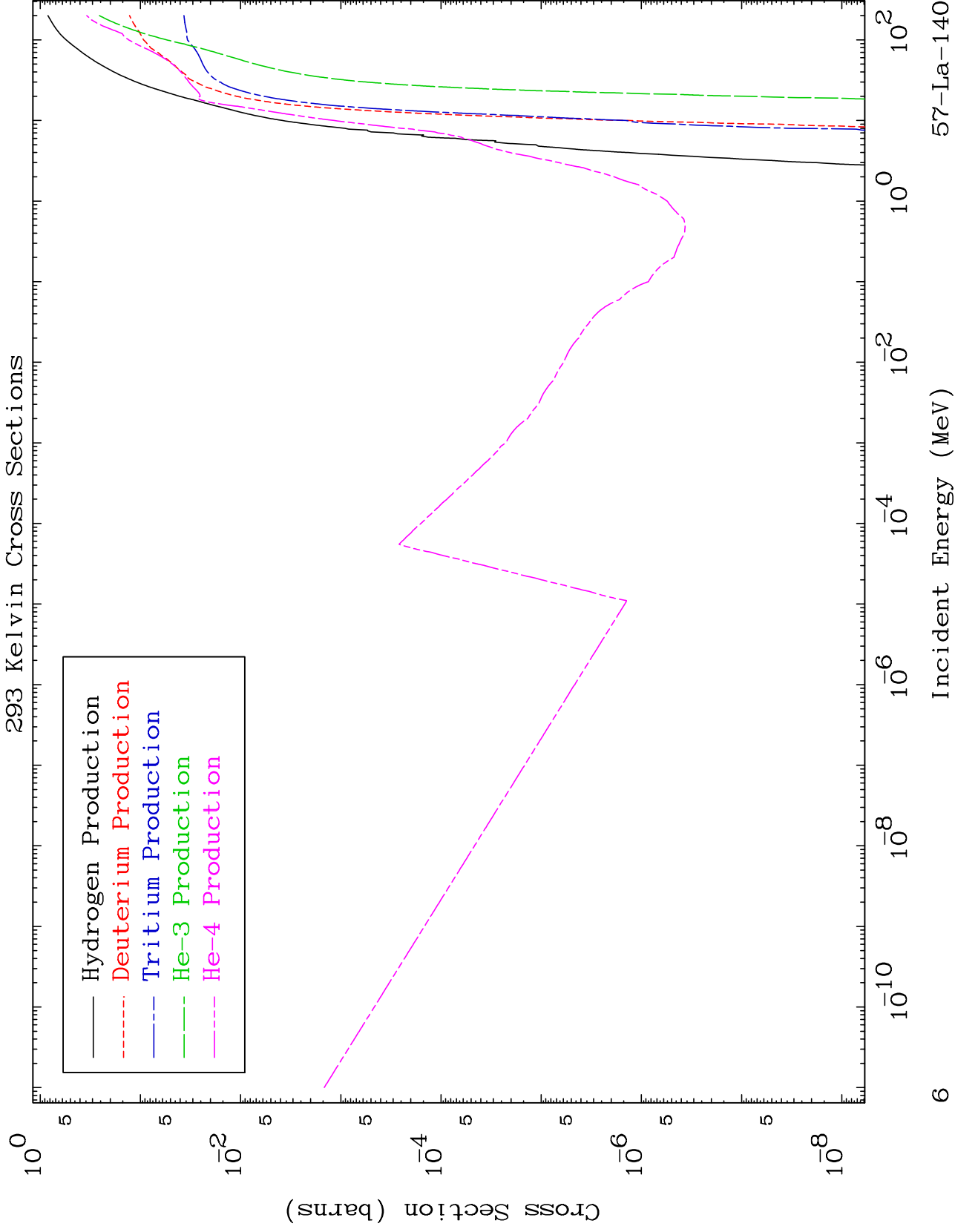
57-La-140



MAT 5731

Particle Production  
293 Kelvin Cross Sections

57-La-140

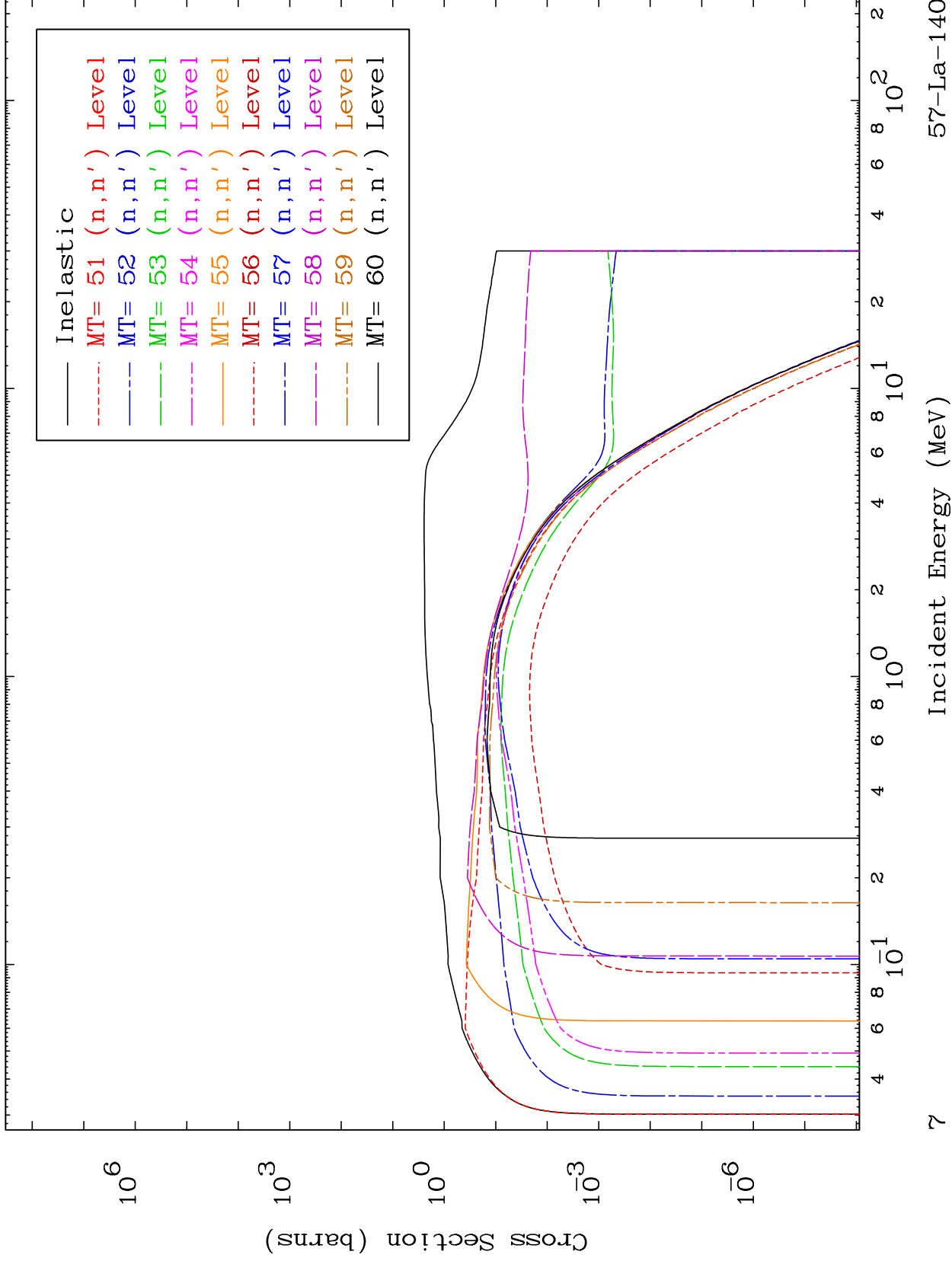


MAT 5731

(n,n') Level

57-La-140

293 Kelvin Cross Sections





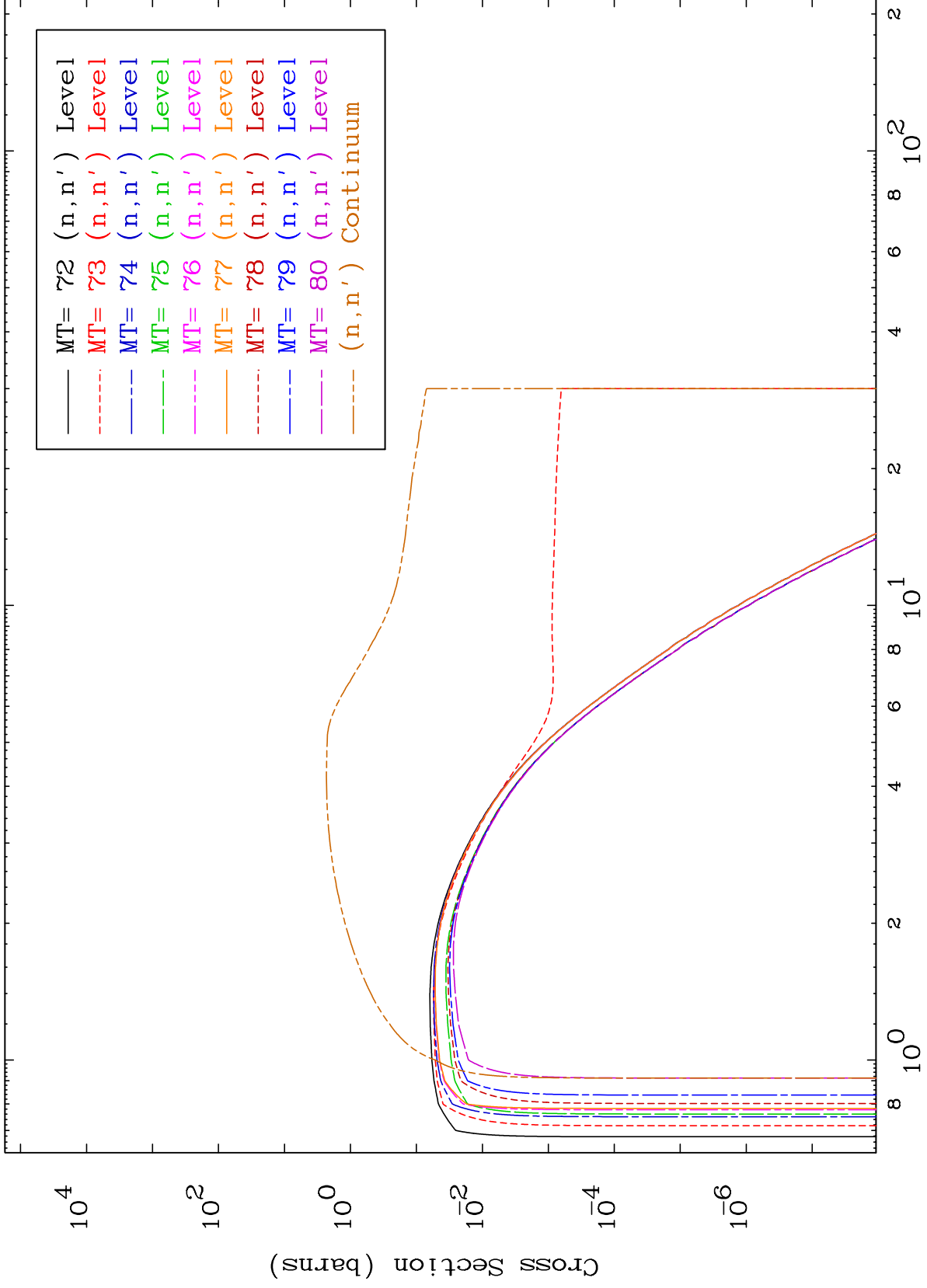


MAT 5731

(n,n') Level

57-La-140

293 Kelvin Cross Sections



9

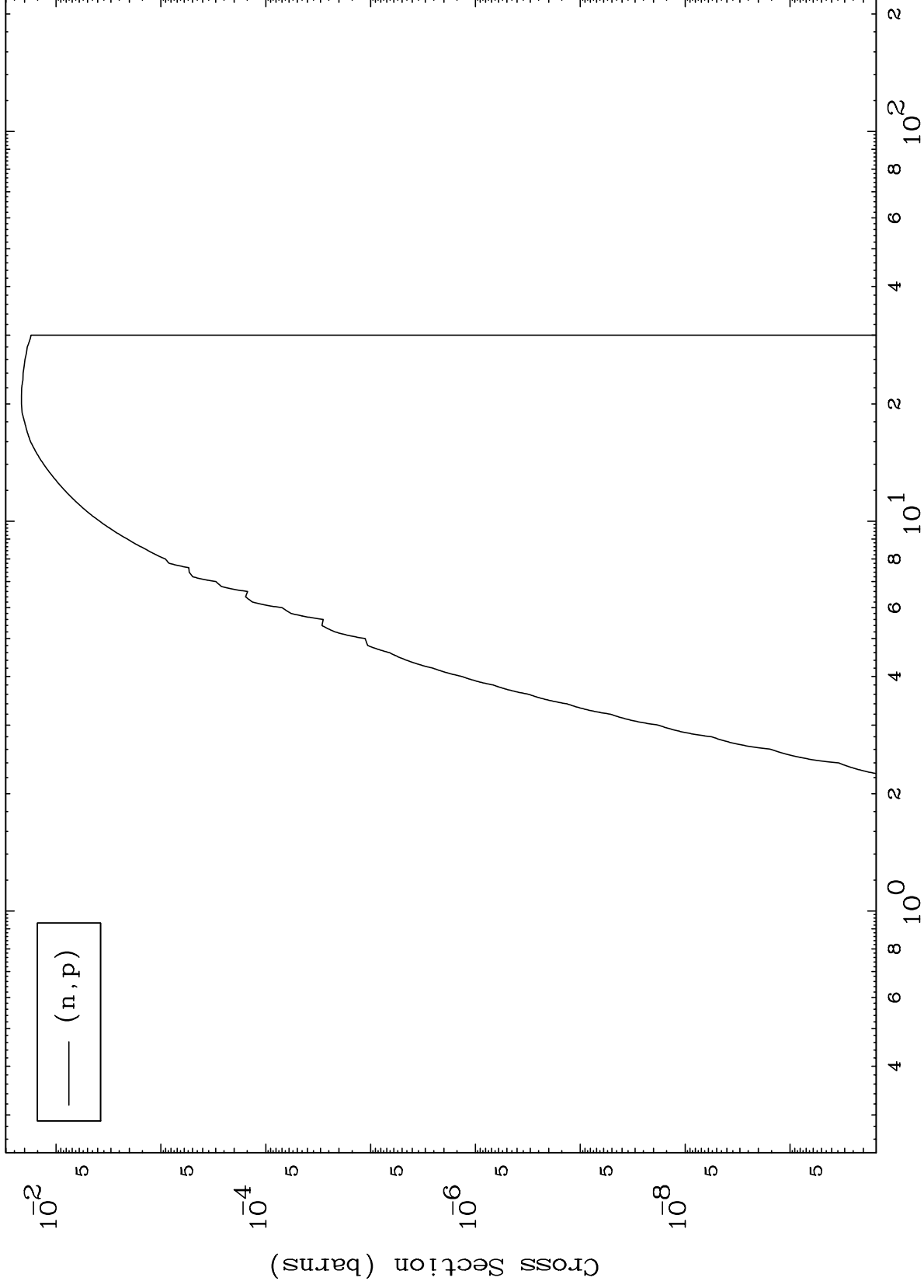
Incident Energy (MeV)

57-La-140

MAT 5731

(n,p) Levels  
293 Kelvin Cross Sections

57-La-140



10

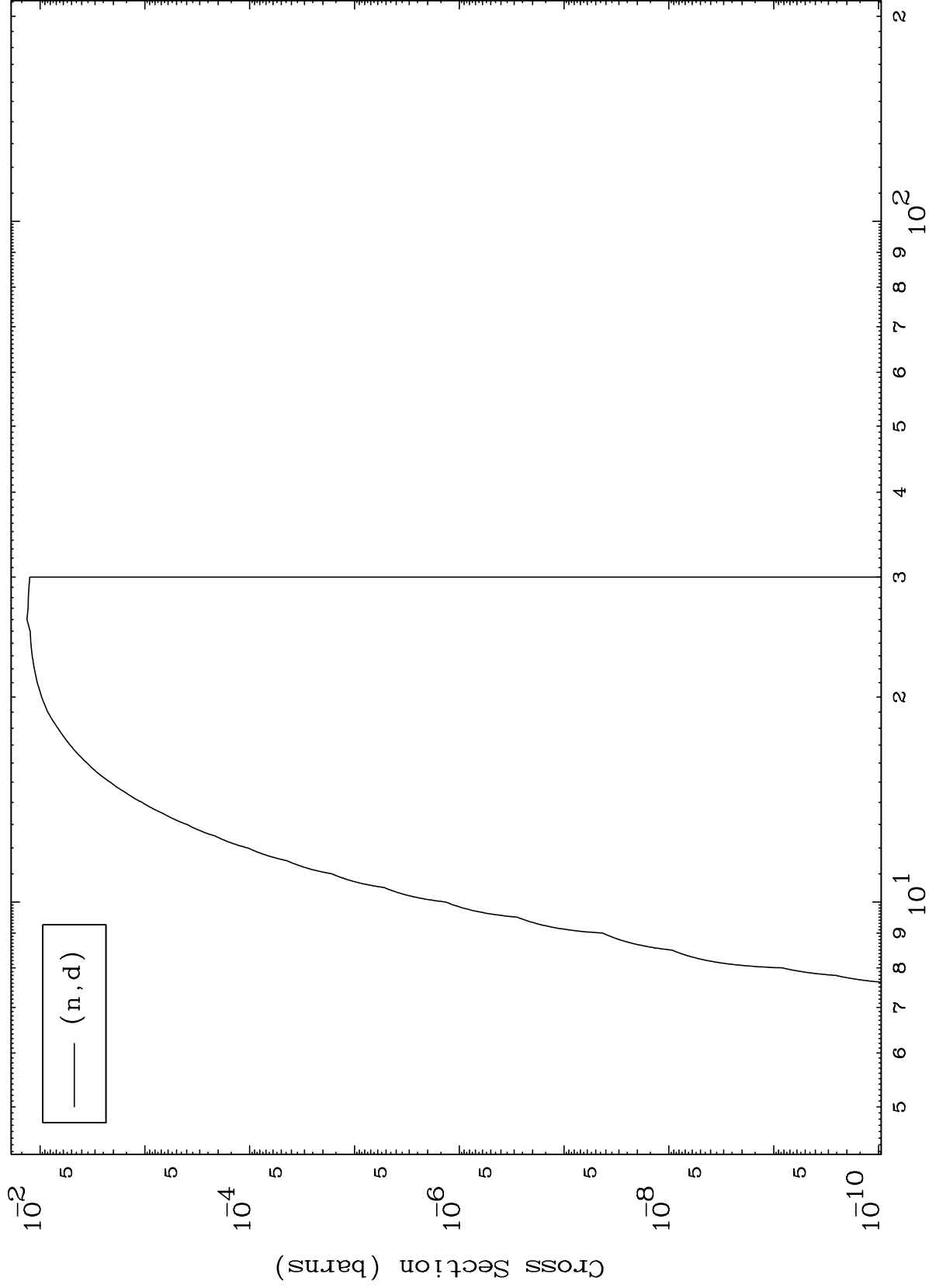
Incident Energy (MeV)

57-La-140

MAT 5731

(n,d) Levels  
293 Kelvin Cross Sections

57-La-140



11

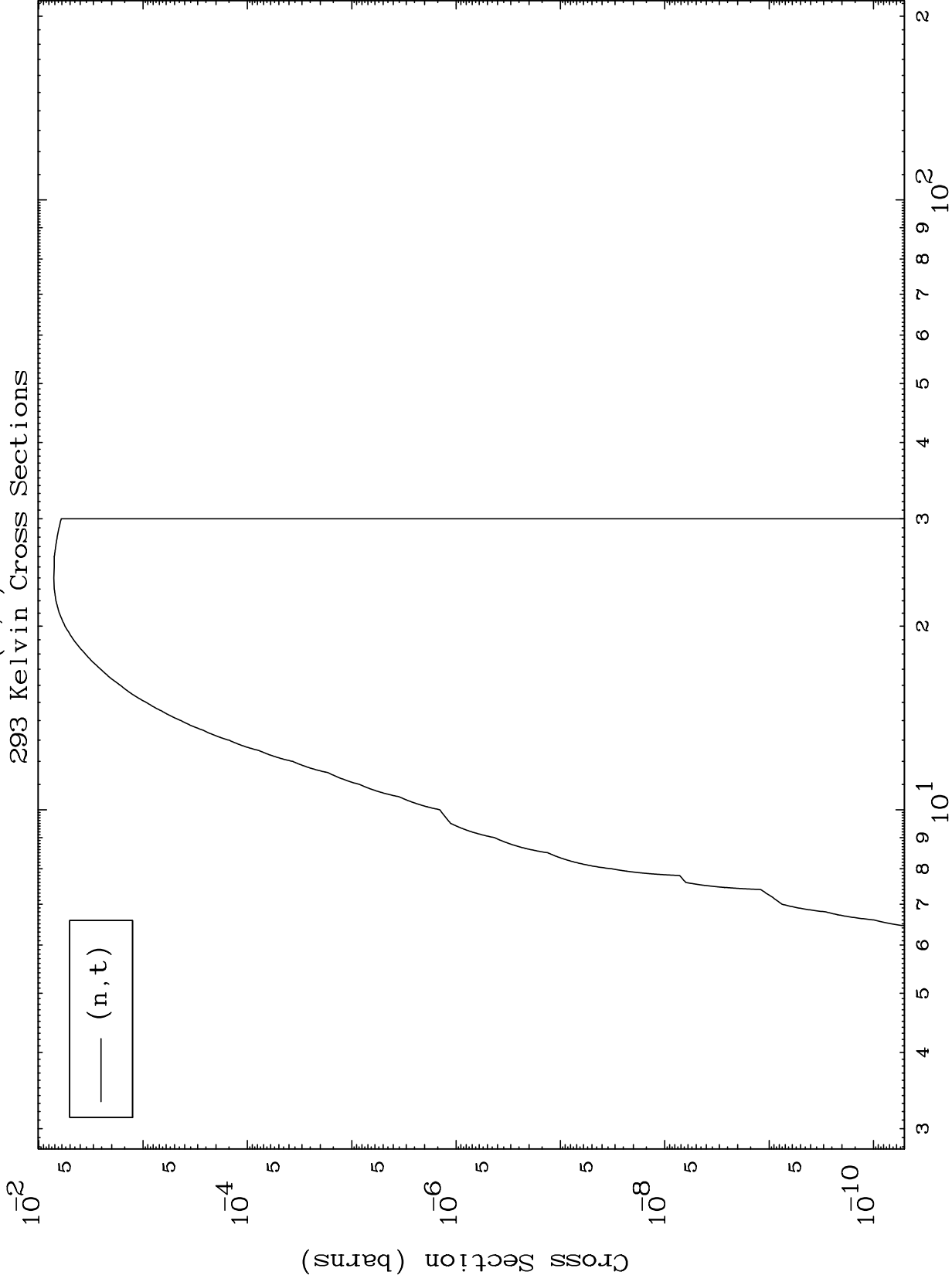
Incident Energy (MeV)

57-La-140

MAT 5731

(n,t) Levels  
293 Kelvin Cross Sections

57-La-140



12

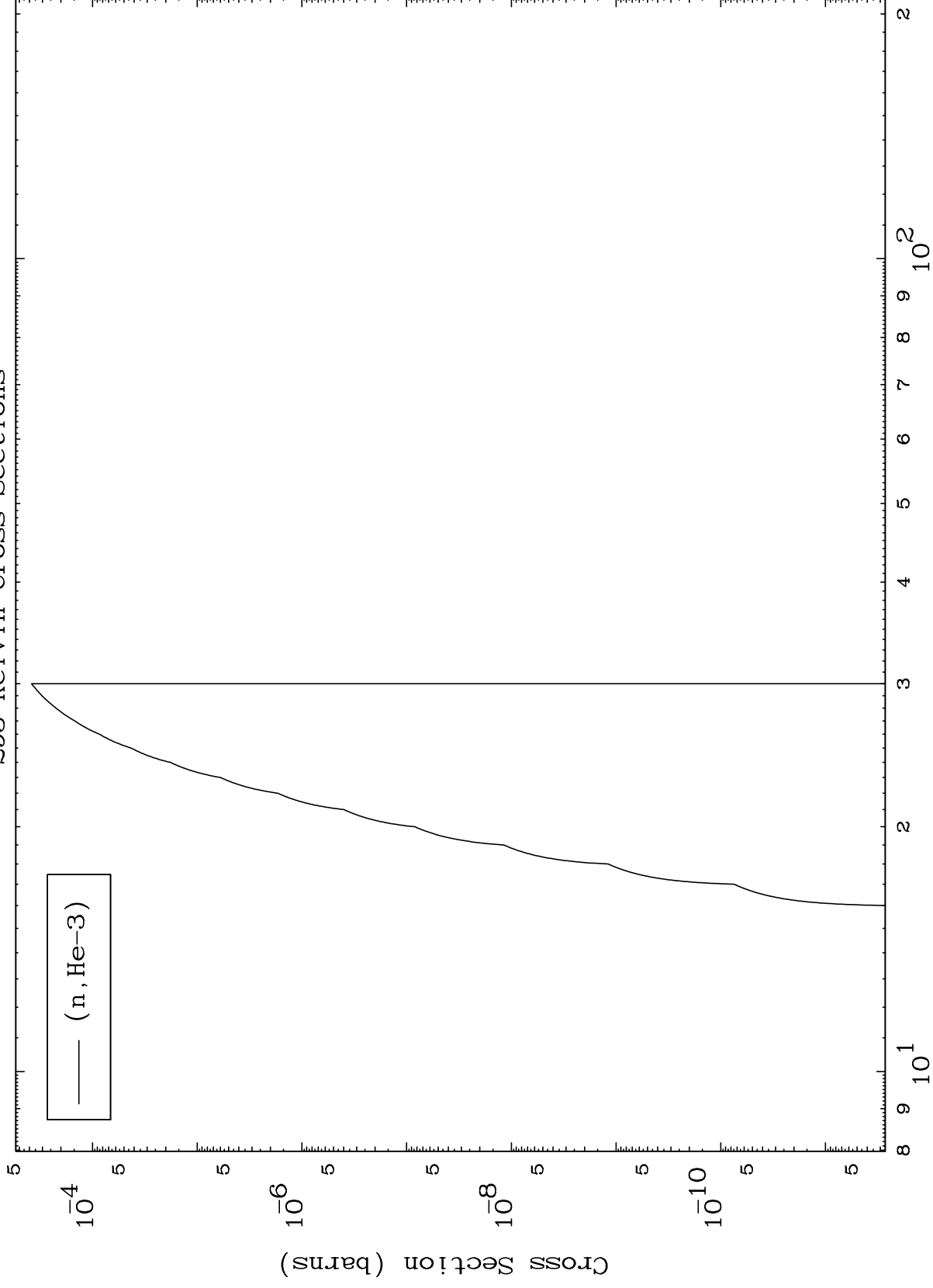
Incident Energy (MeV)

57-La-140

MAT 5731

(n,He3) Levels  
293 Kelvin Cross Sections

57-La-140



13

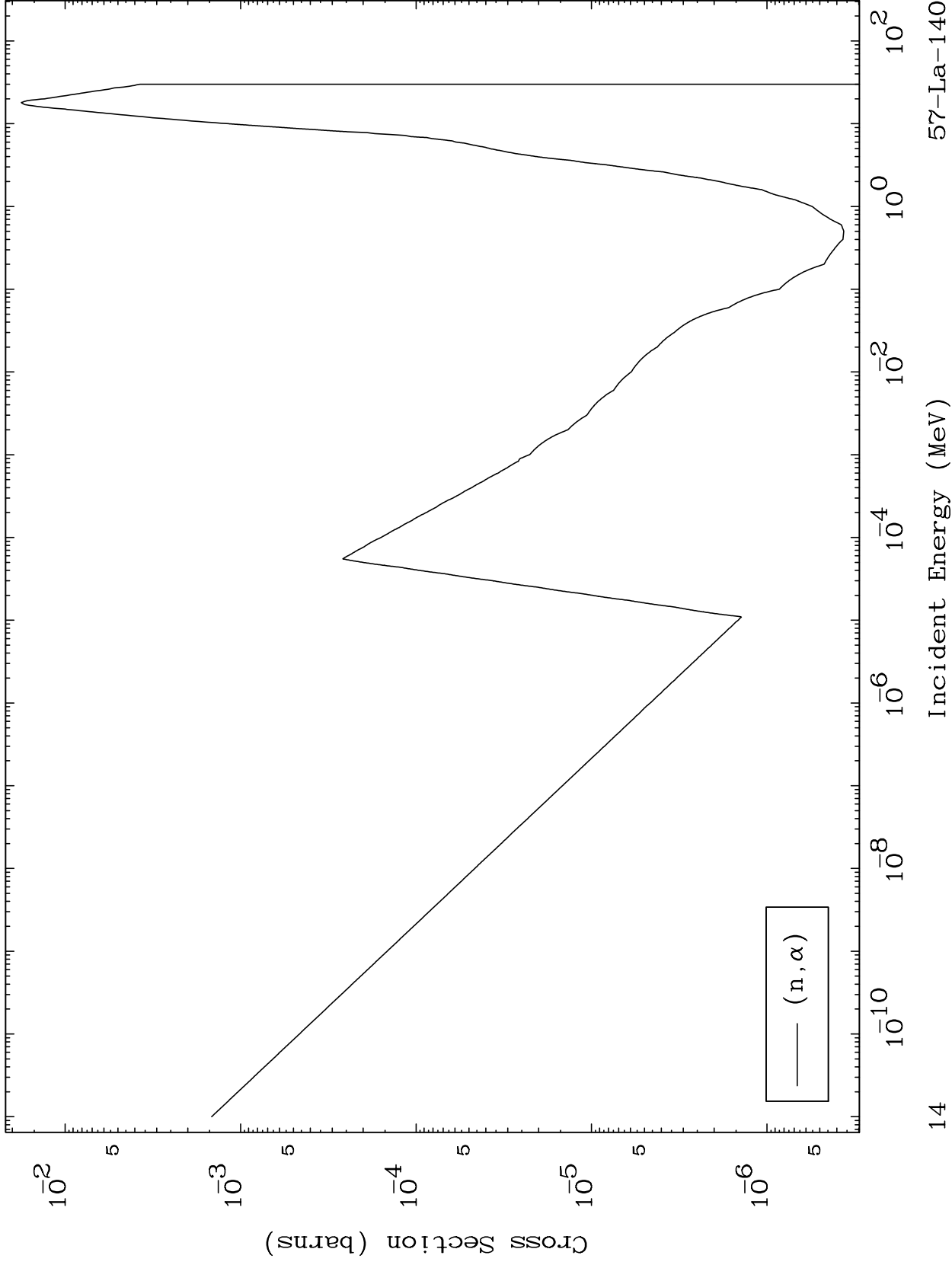
Incident Energy (MeV)

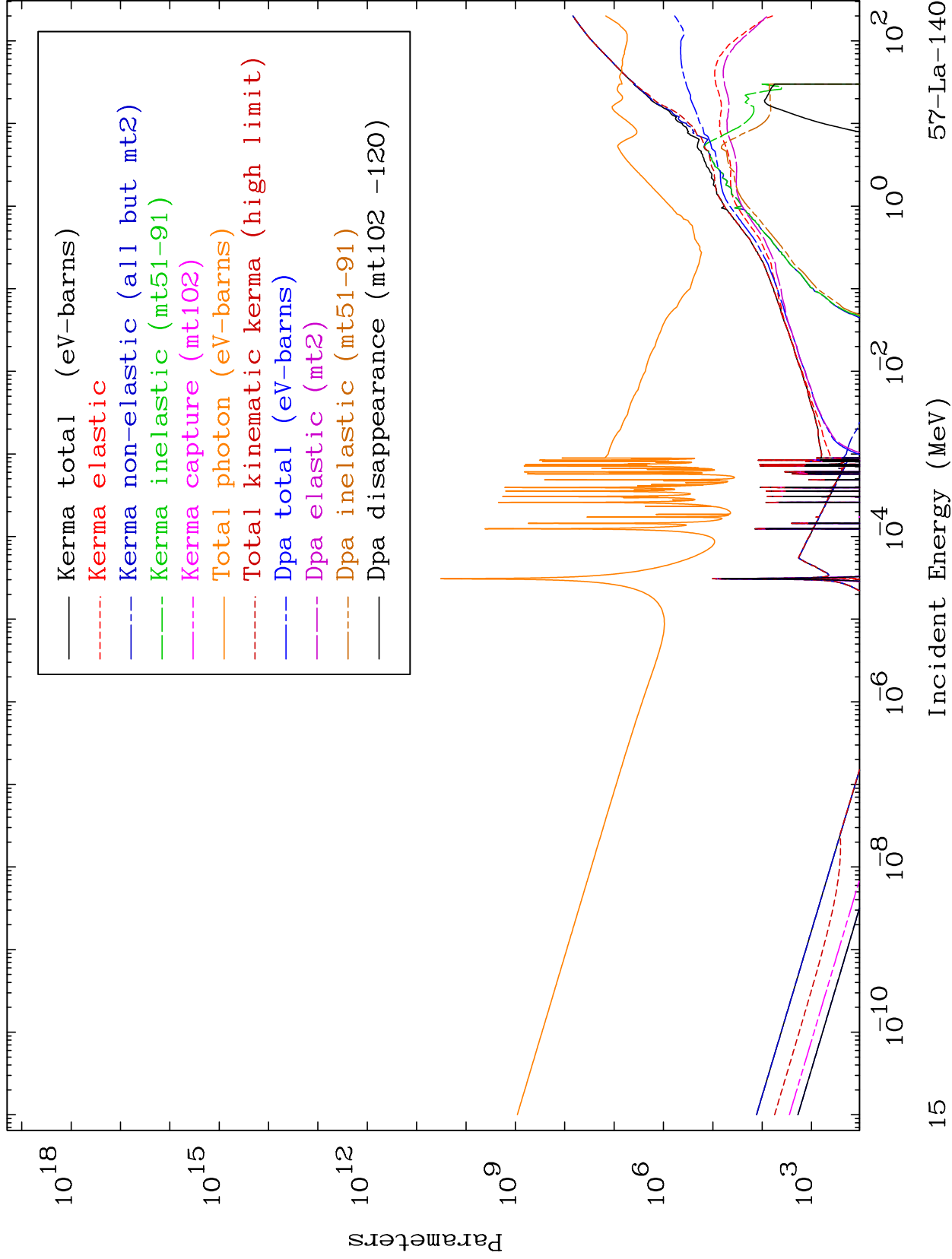
57-La-140

MAT 5731

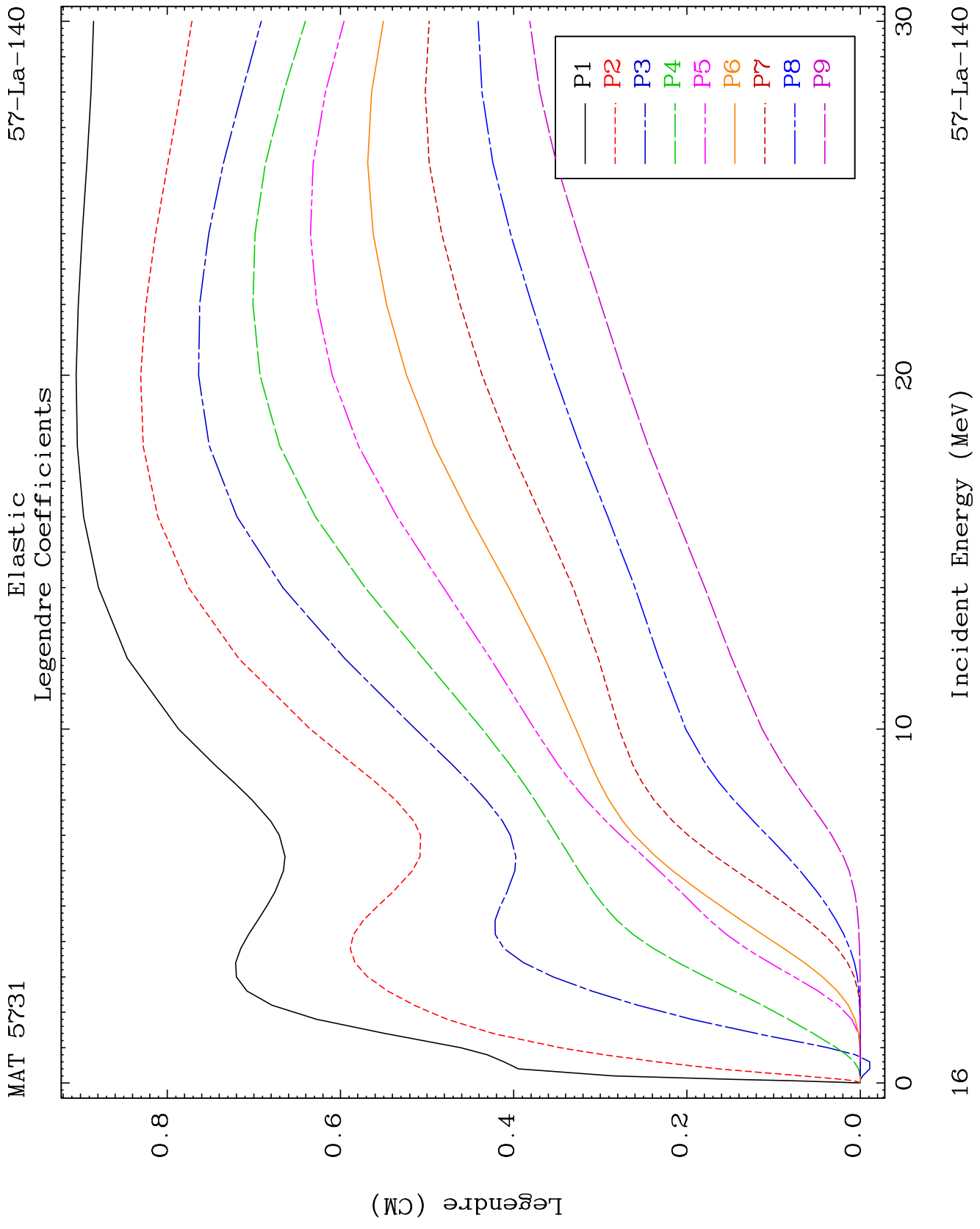
(n,α) Levels  
293 Kelvin Cross Sections

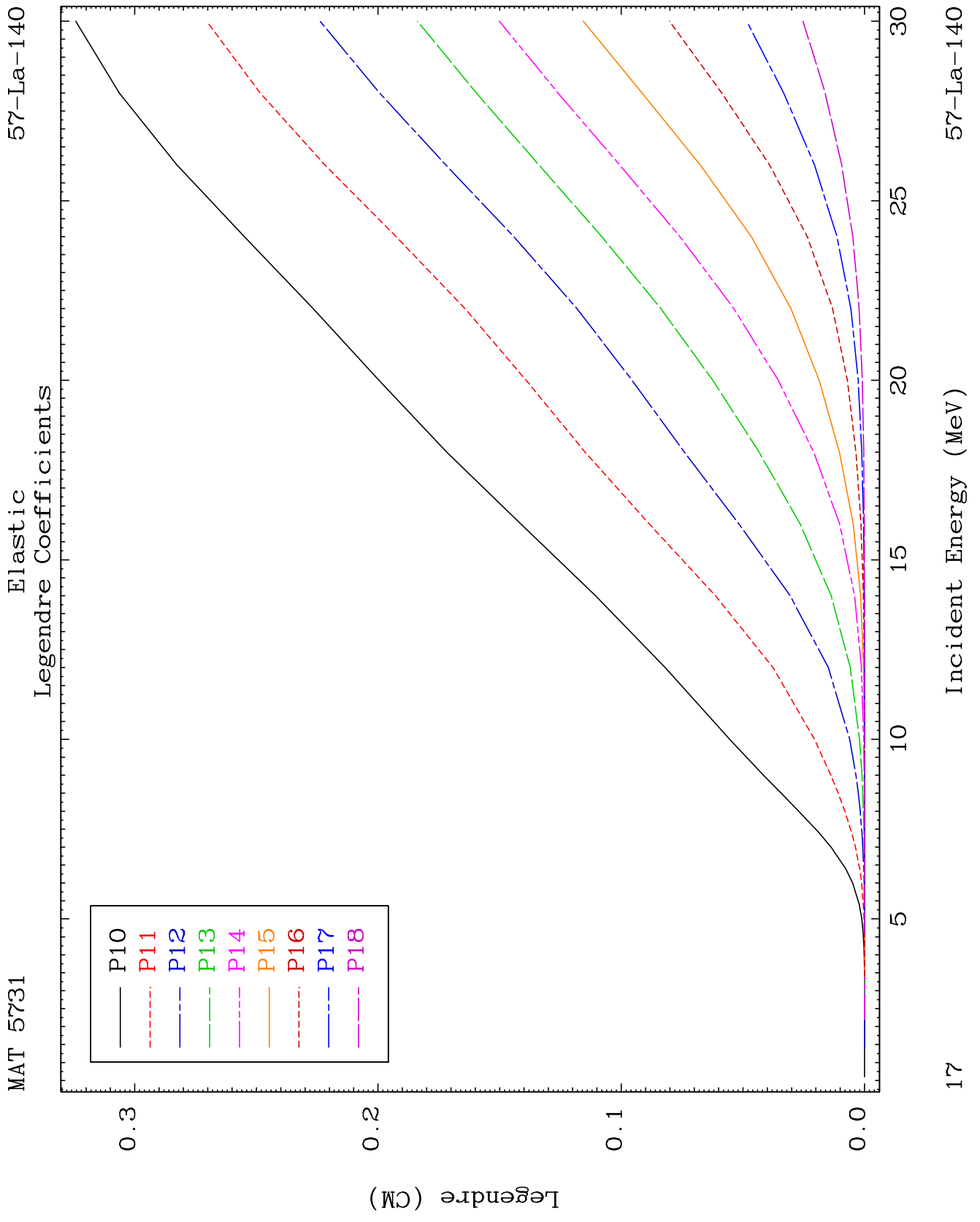
57-La-140

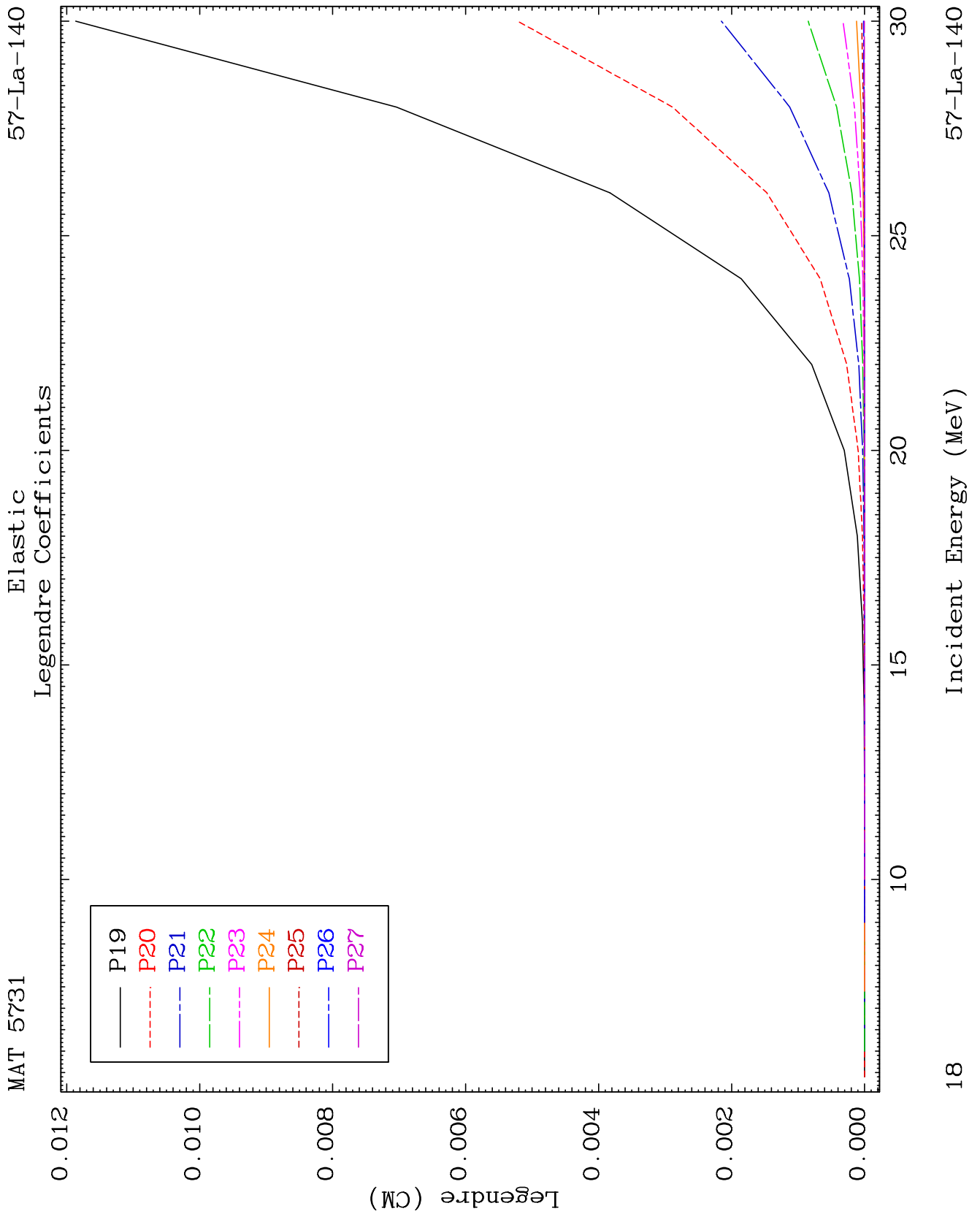








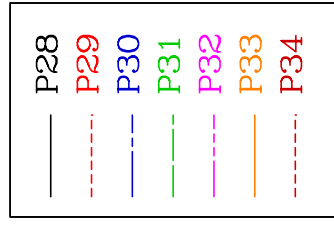




MAT 5731

Elastic Legendre Coefficients

57-La-140



$\times 10^{-6}$

1.2

1.0

0.8

0.6

0.4

0.2

0.0

Legendre (CM)

15

20

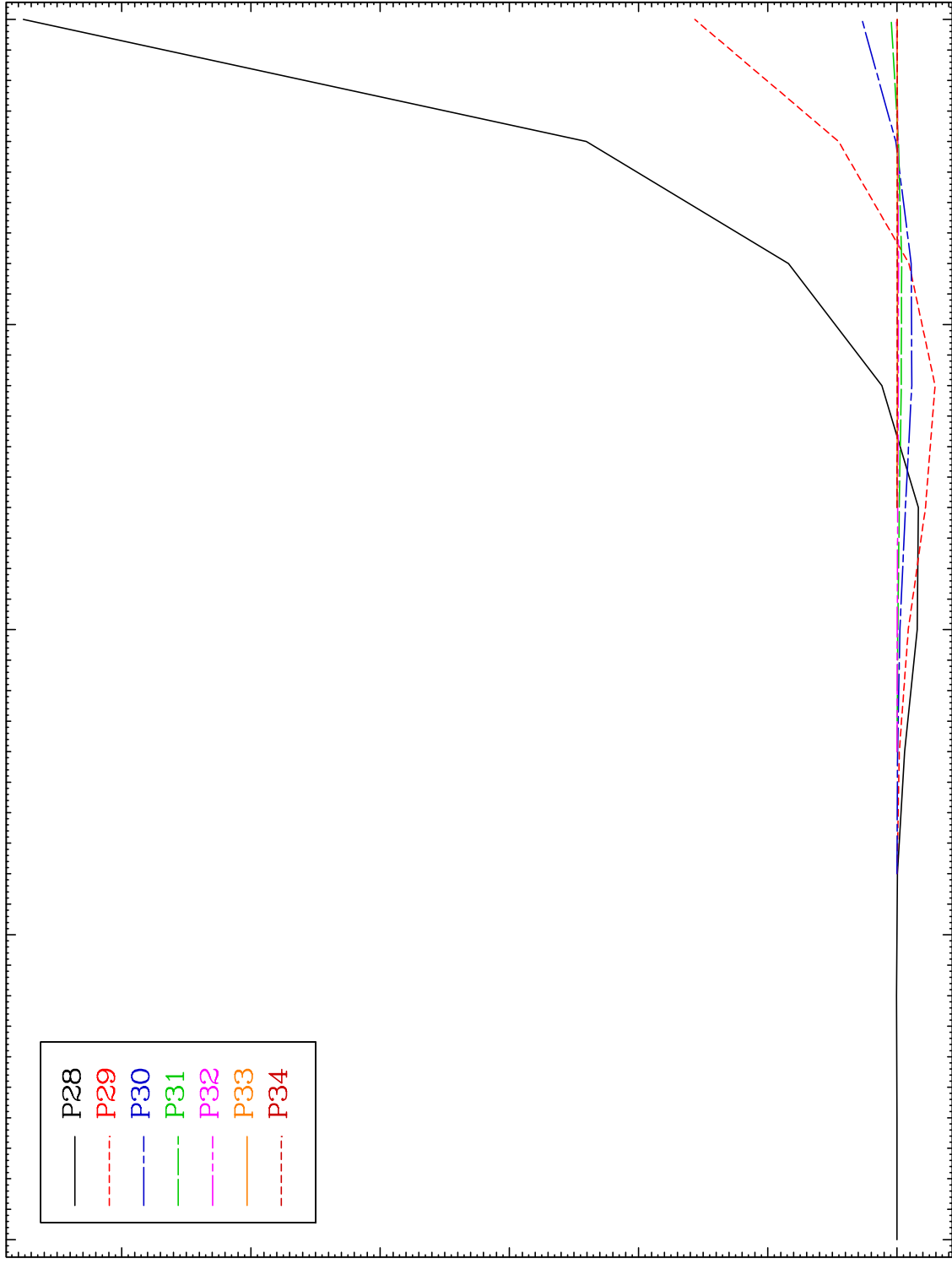
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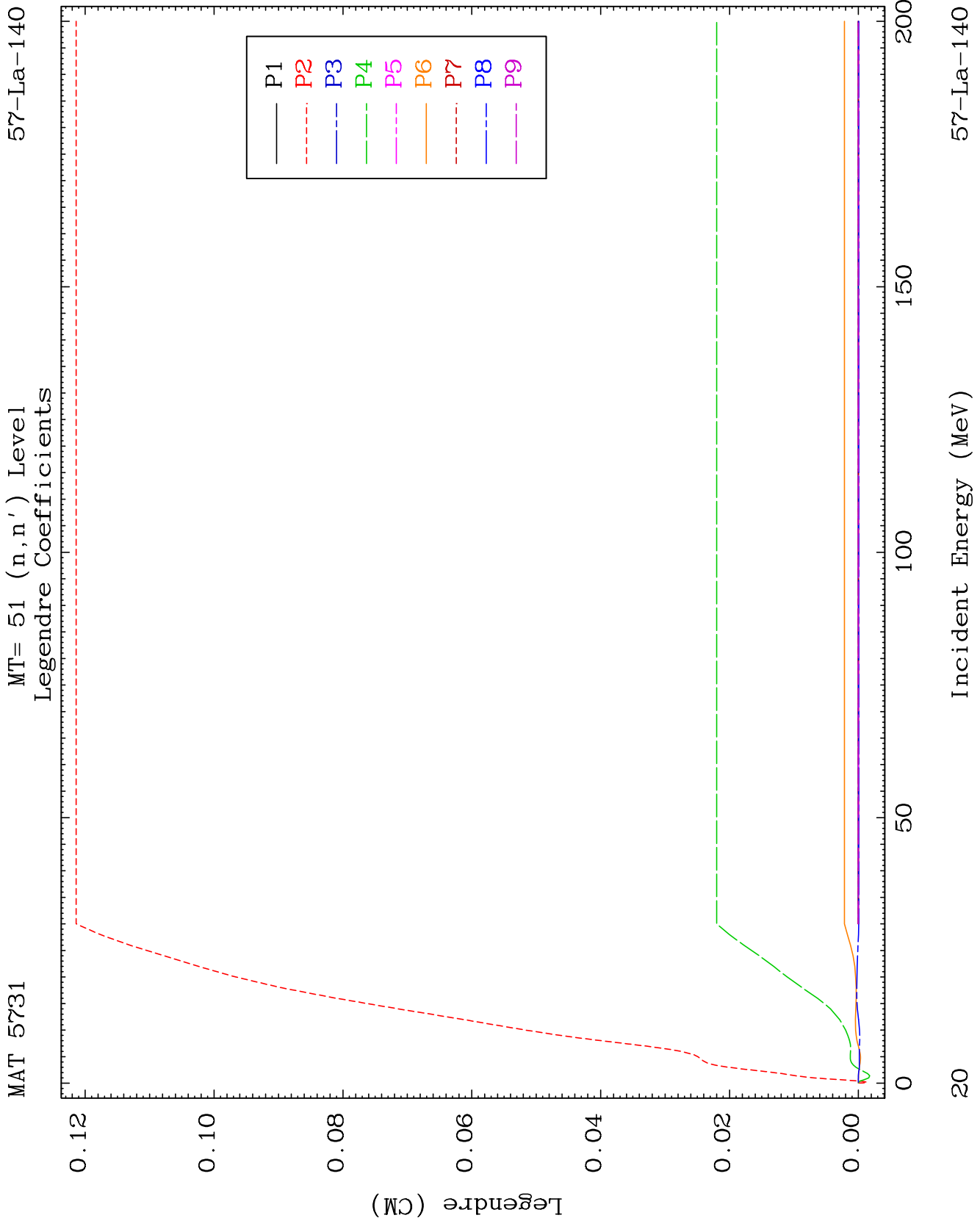
30

19

Incident Energy (MeV)

57-La-140

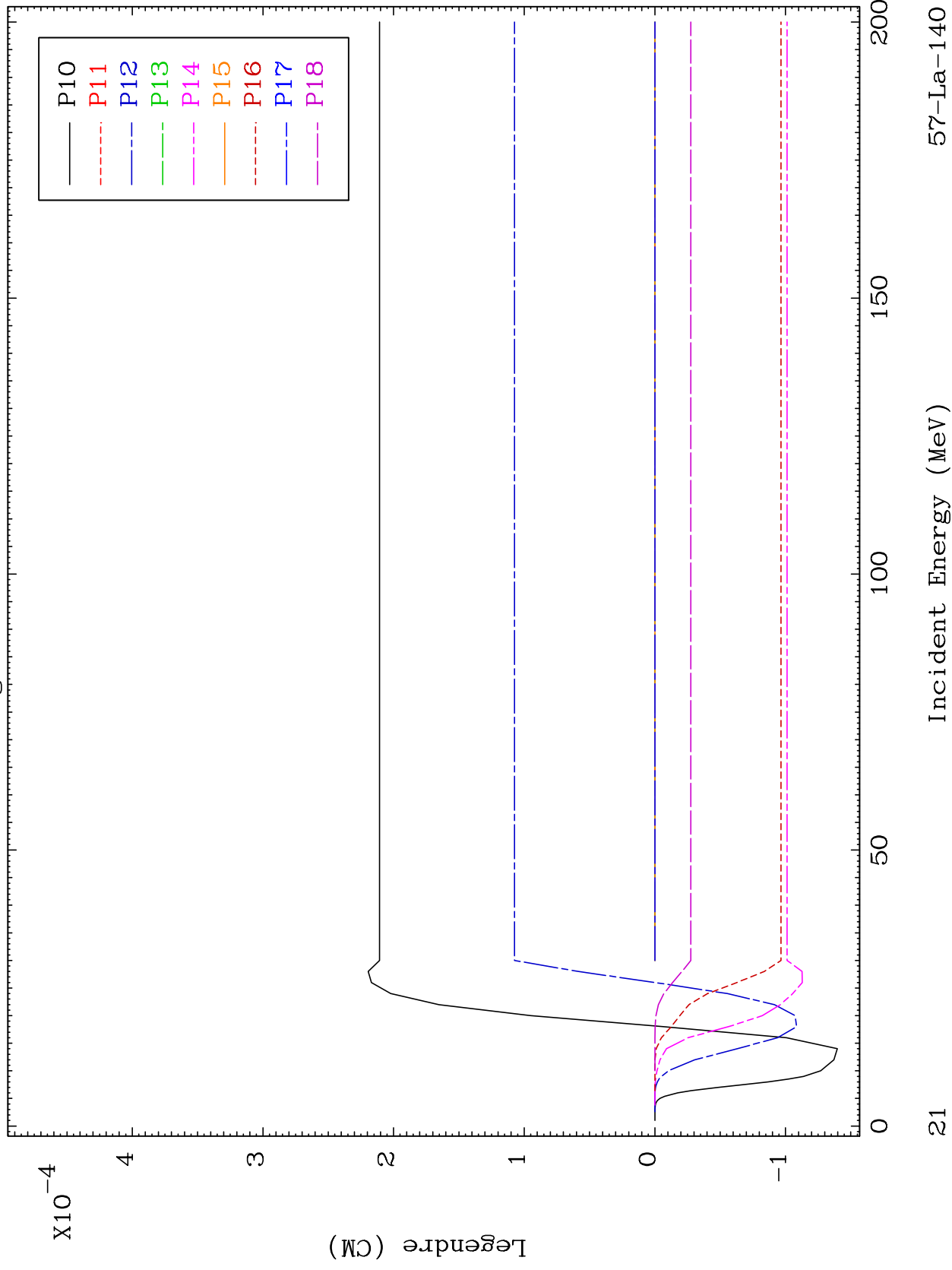




MAT 5731

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

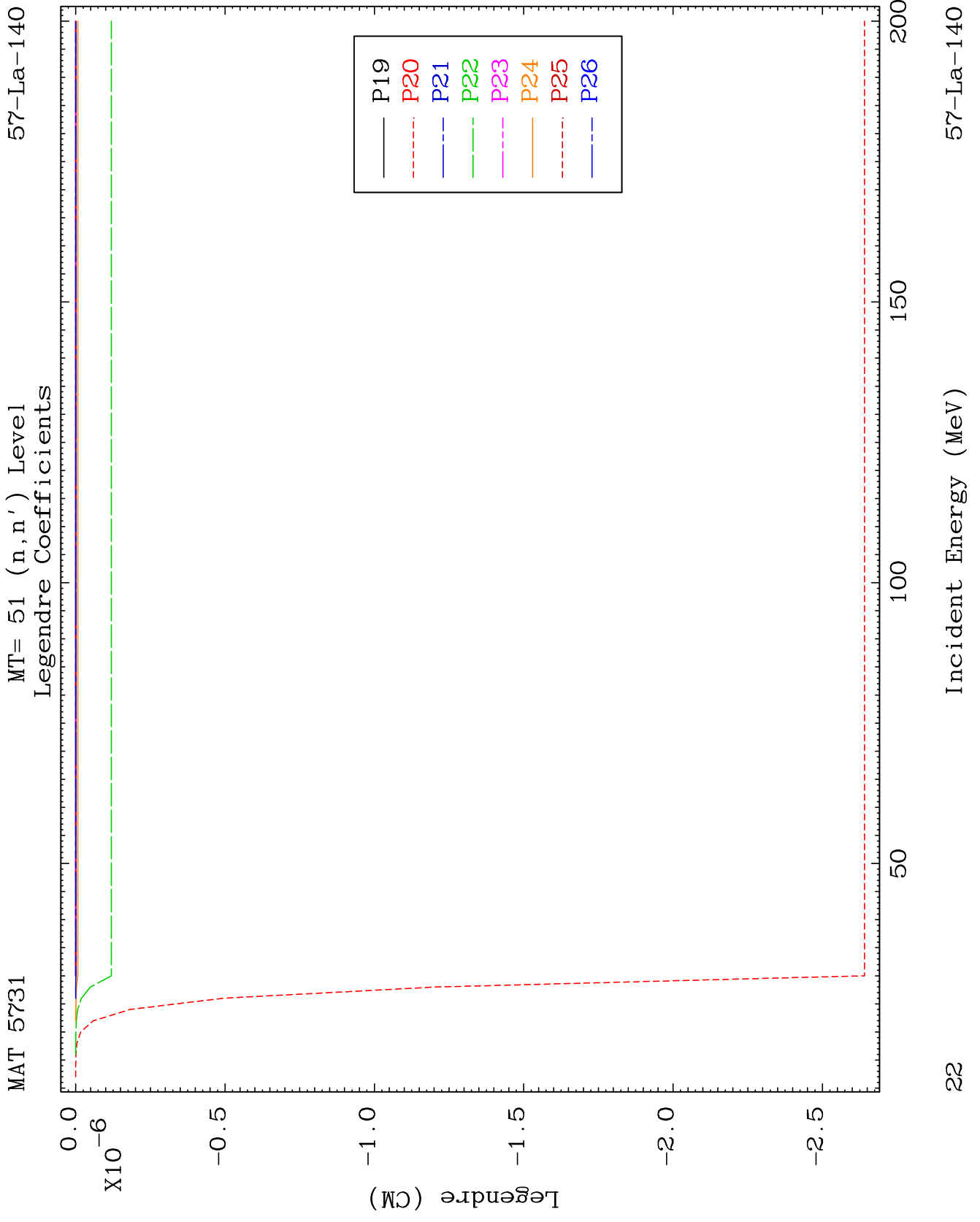
57-La-140



21

Incident Energy (MeV)

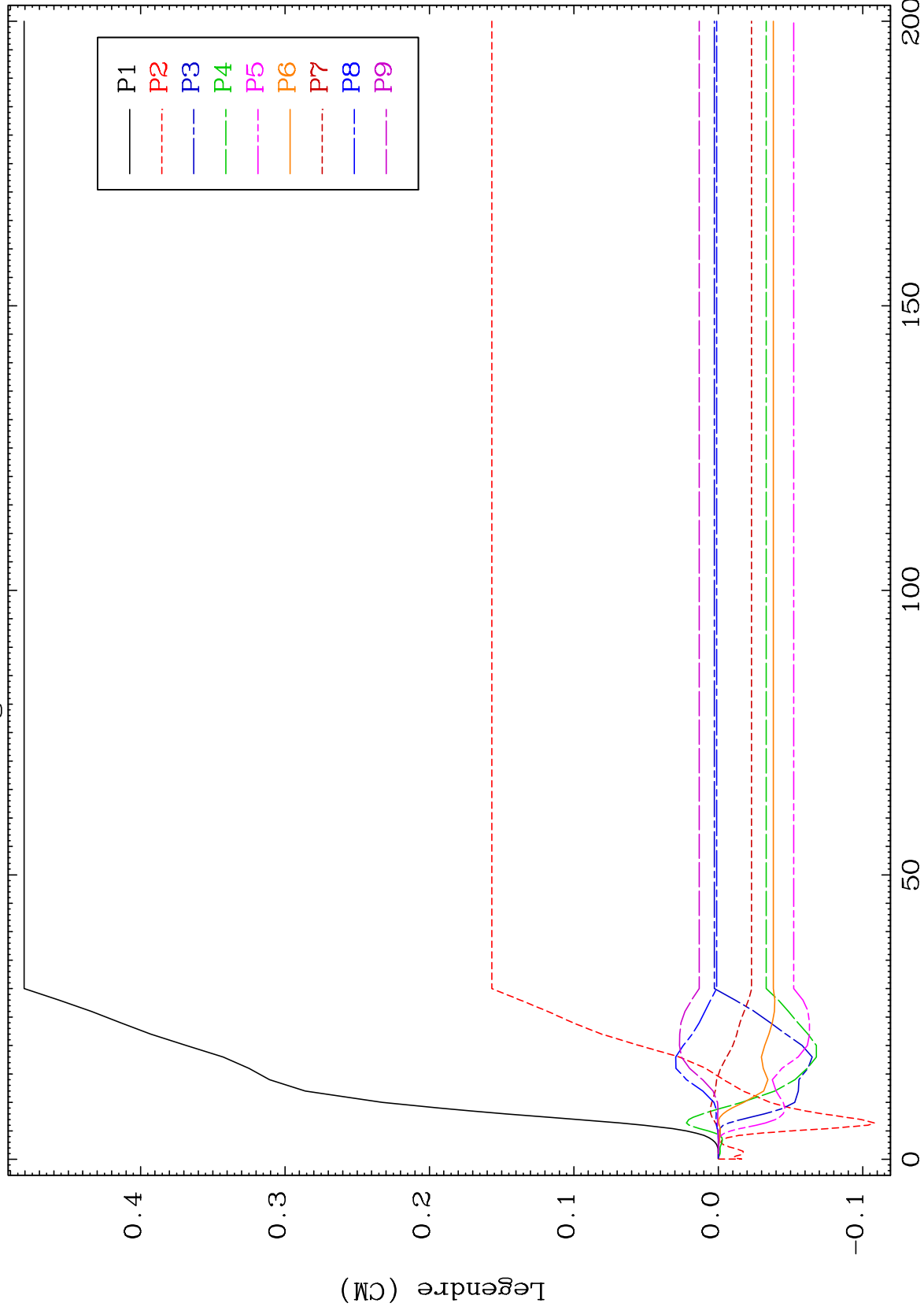
57-La-140



MAT 5731

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

57-La-140



23

Incident Energy (MeV)

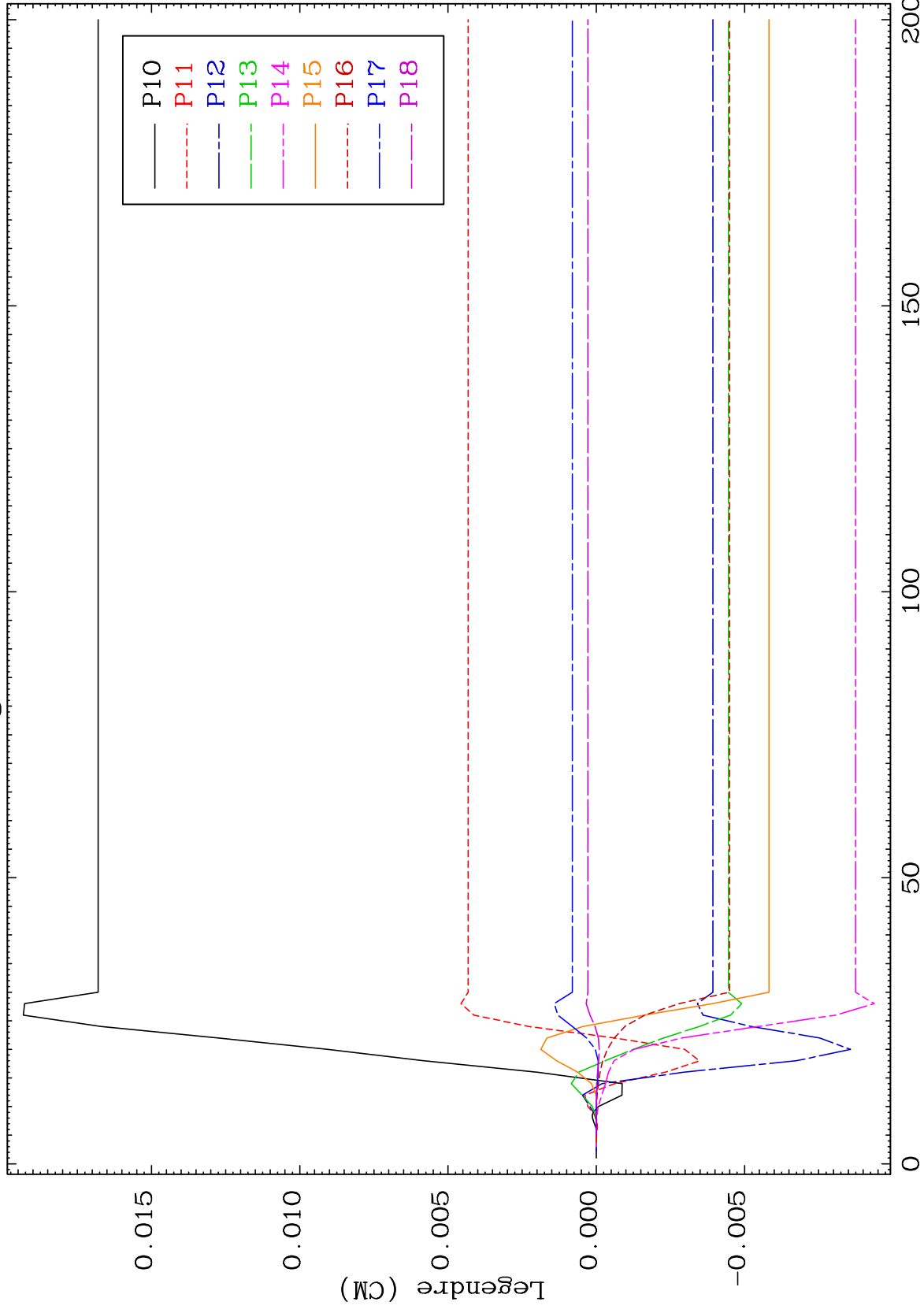
57-La-140



MAT 5731

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

57-La-140



24

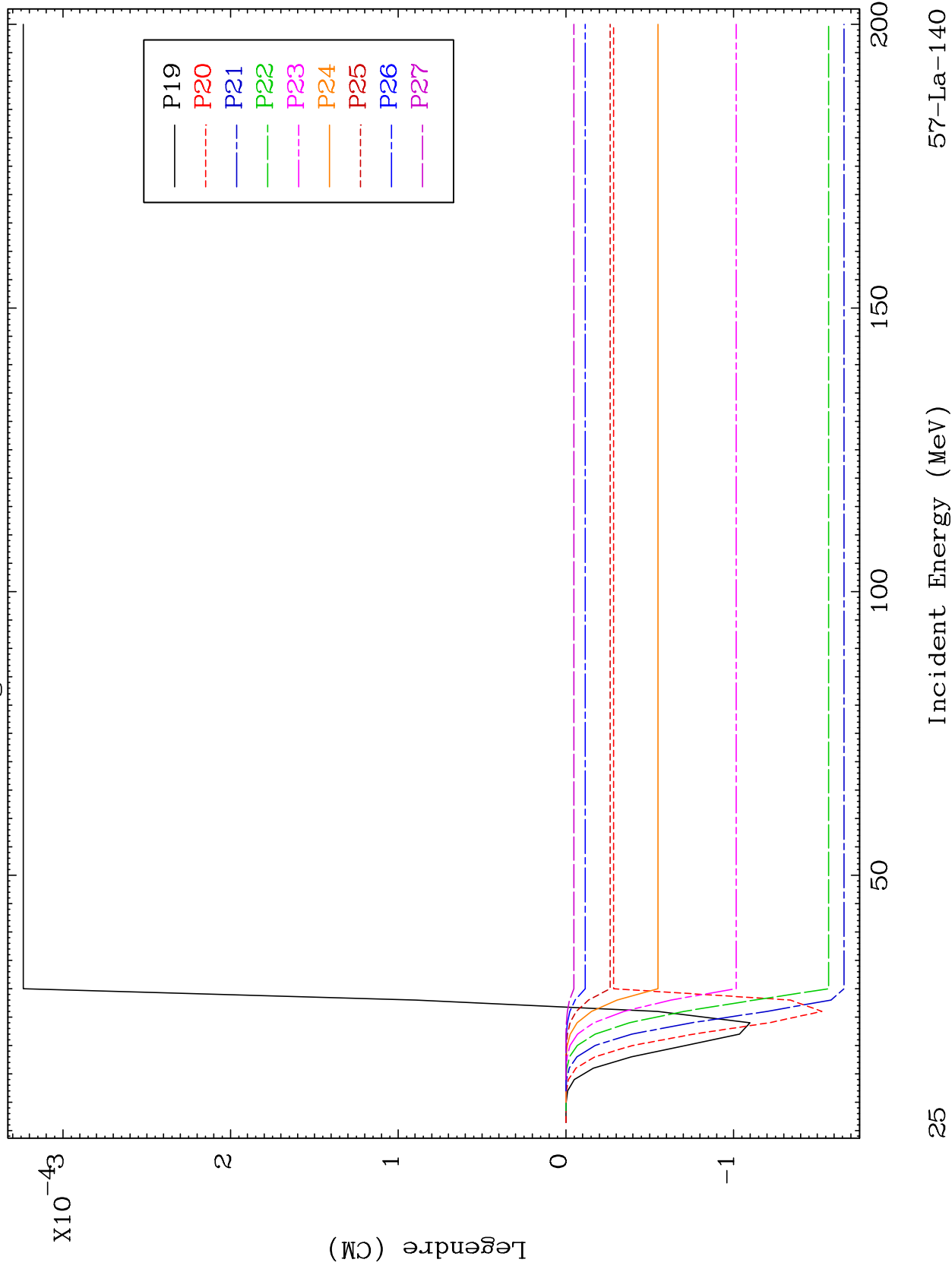
Incident Energy (MeV)

57-La-140

MAT 5731

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

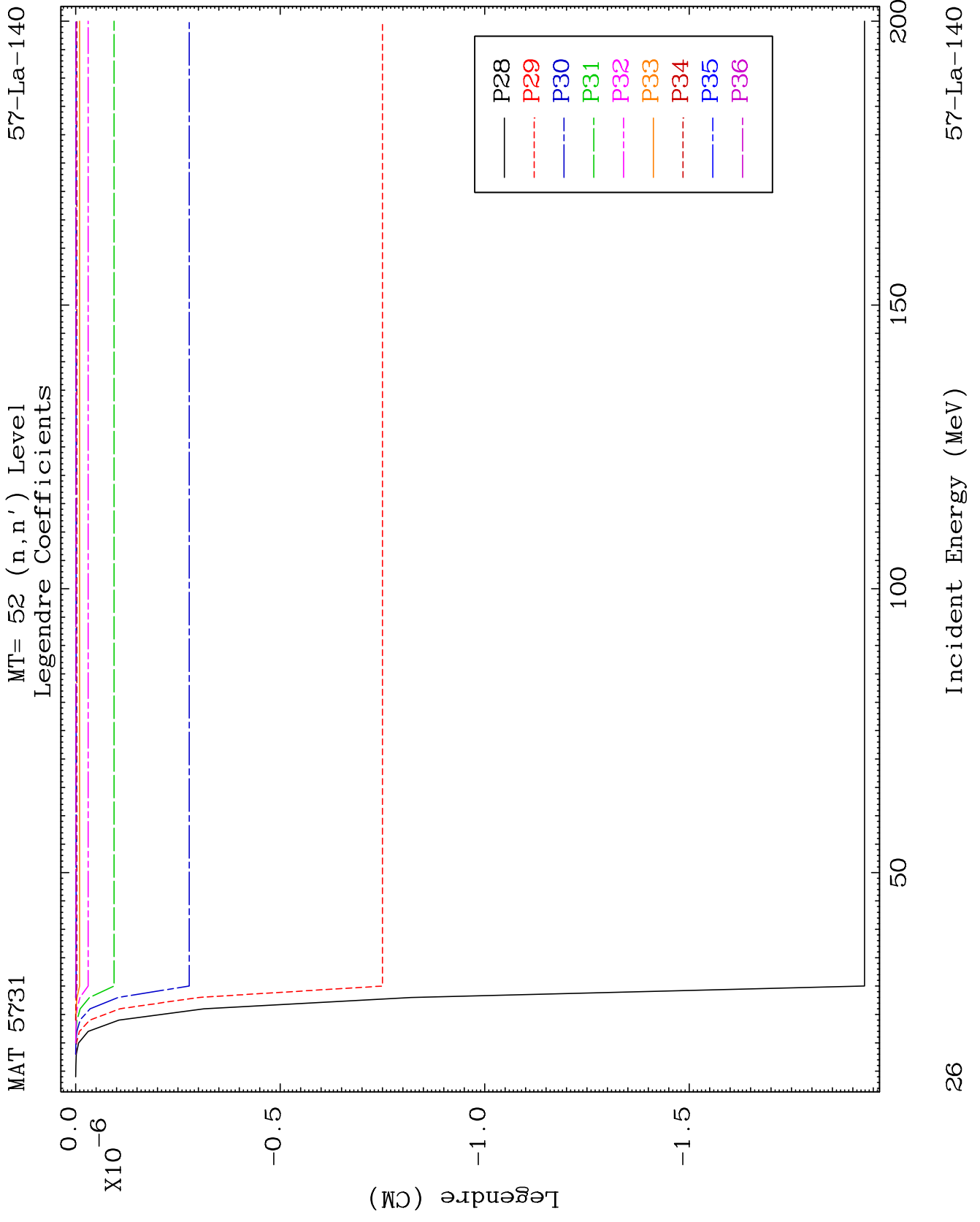
57-La-140



25

Incident Energy (MeV)

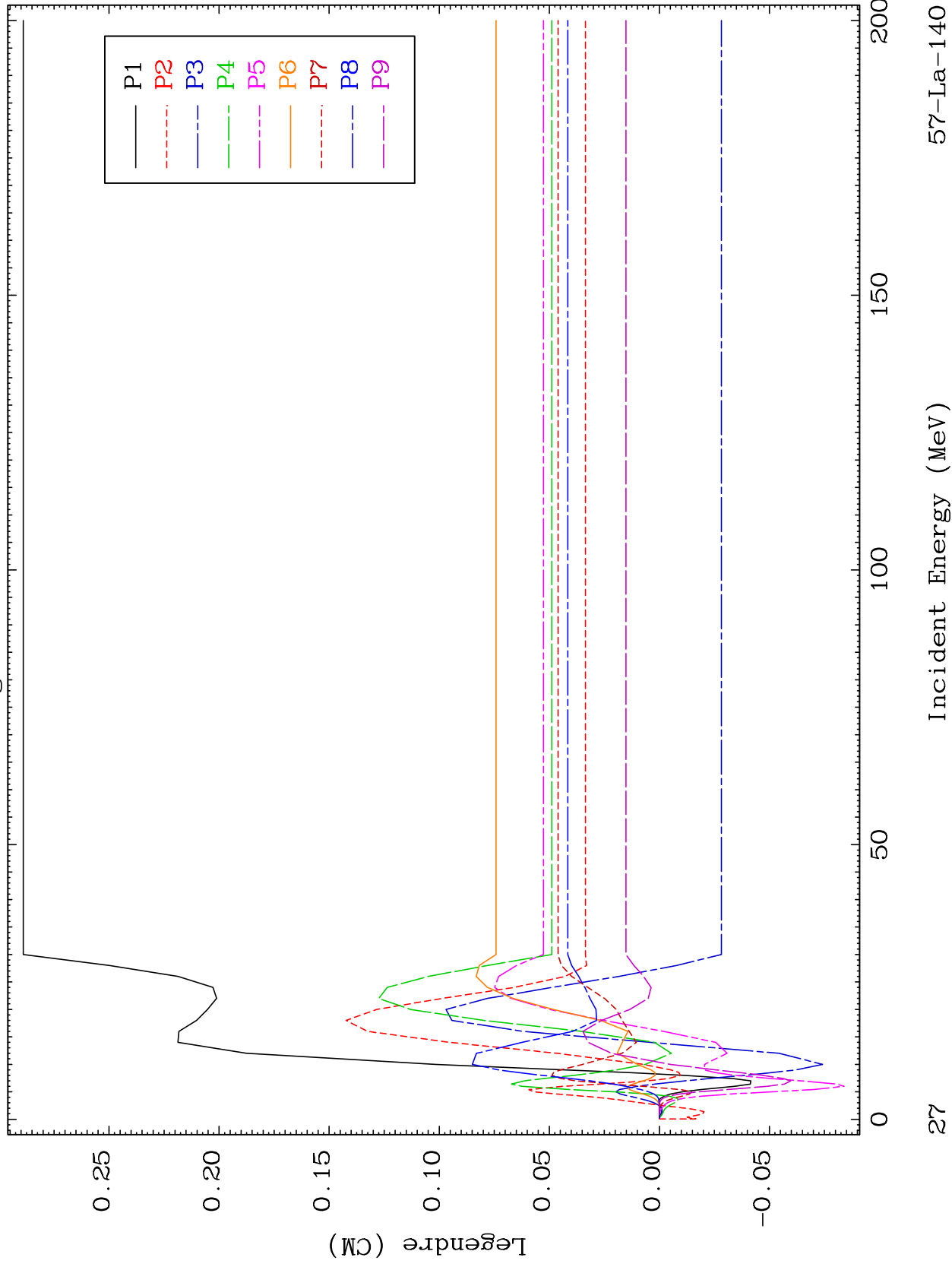
57-La-140



MAT 5731

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

57-La-140



27

Incident Energy (MeV)

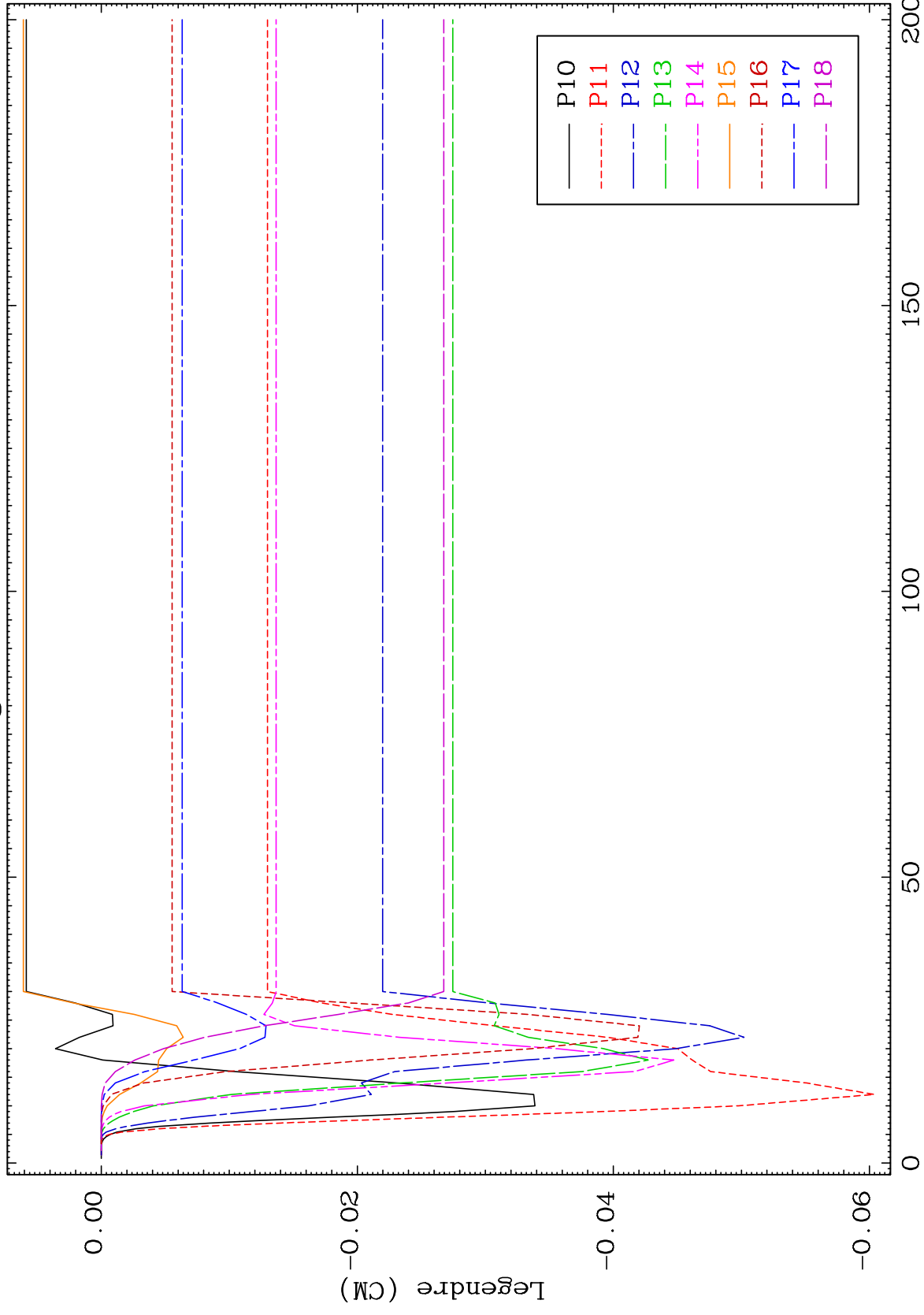
57-La-140

MAT 5731

MT= 53 (n,n') Level

57-La-140

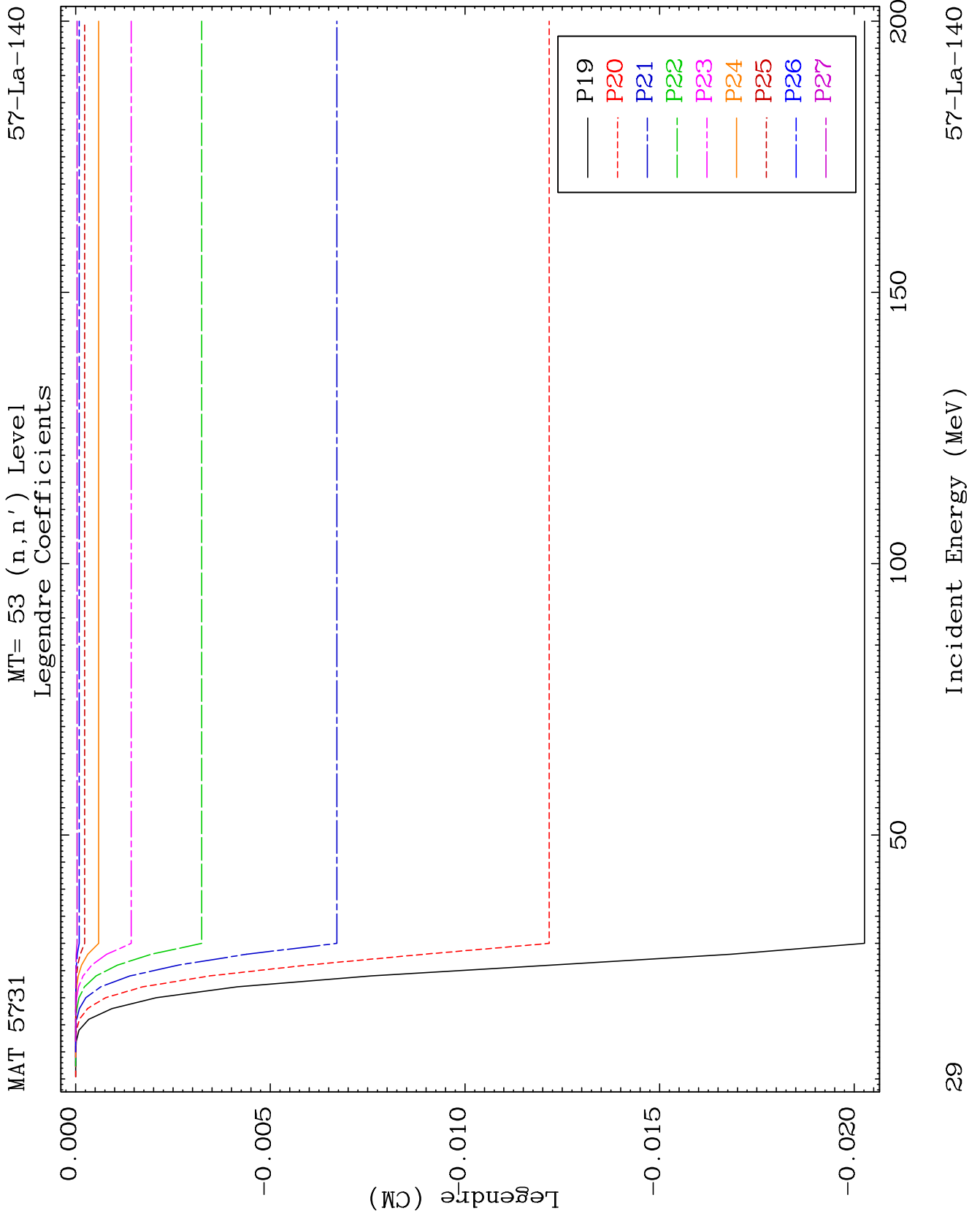
Legendre Coefficients

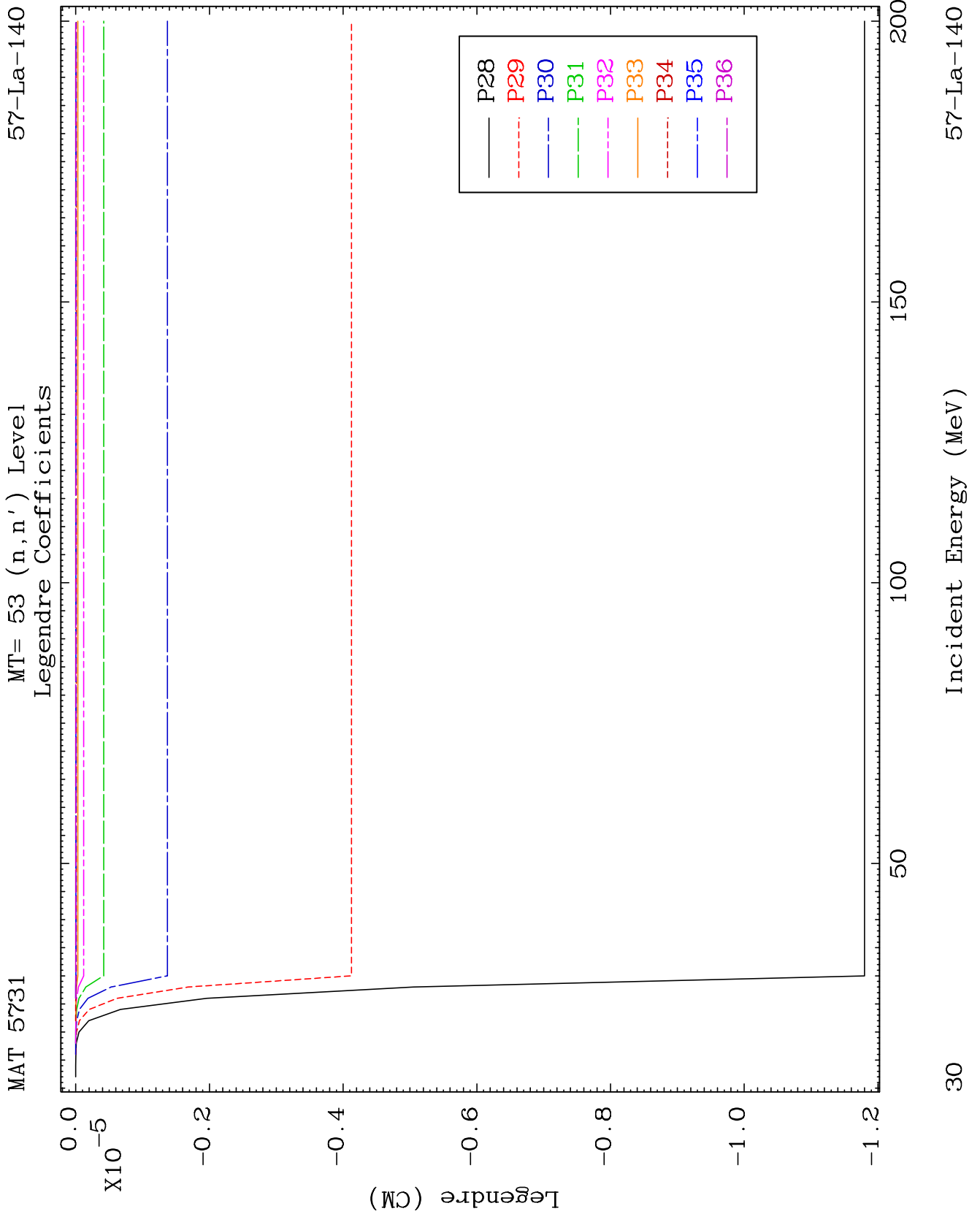


28

Incident Energy (MeV)

57-La-140

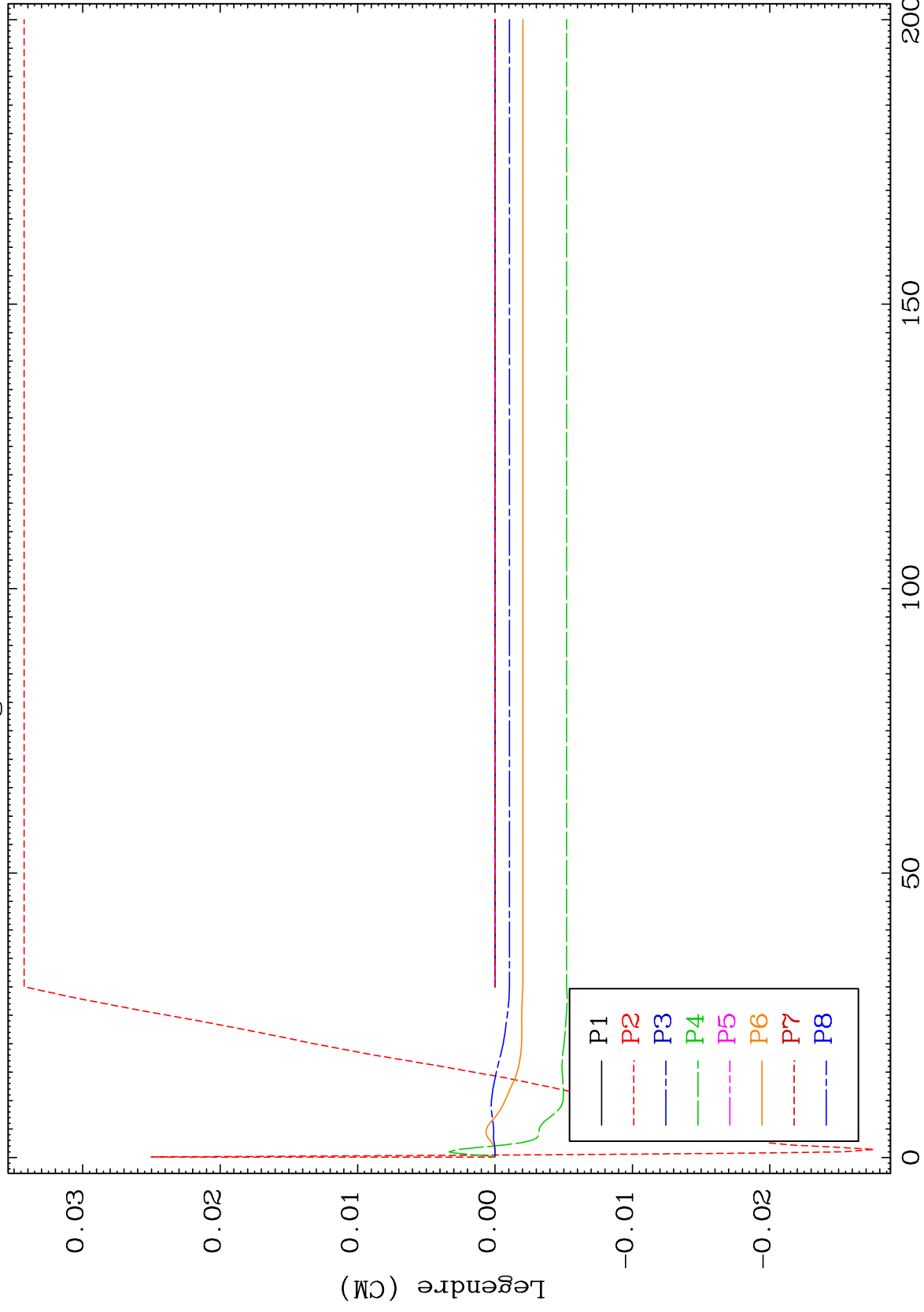




MAT 5731

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

57-La-140



31

Incident Energy (MeV)

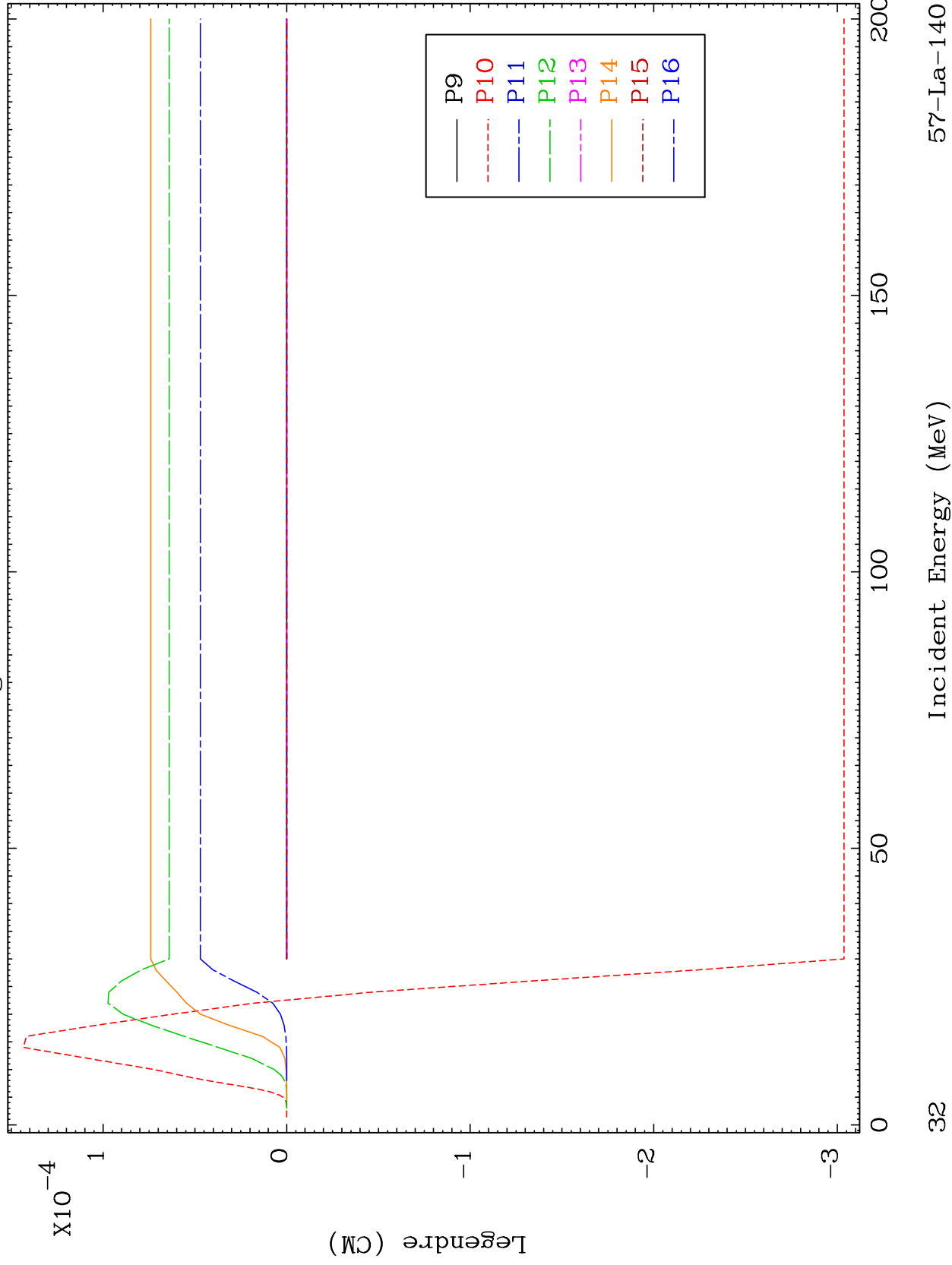
57-La-140



MAT 5731

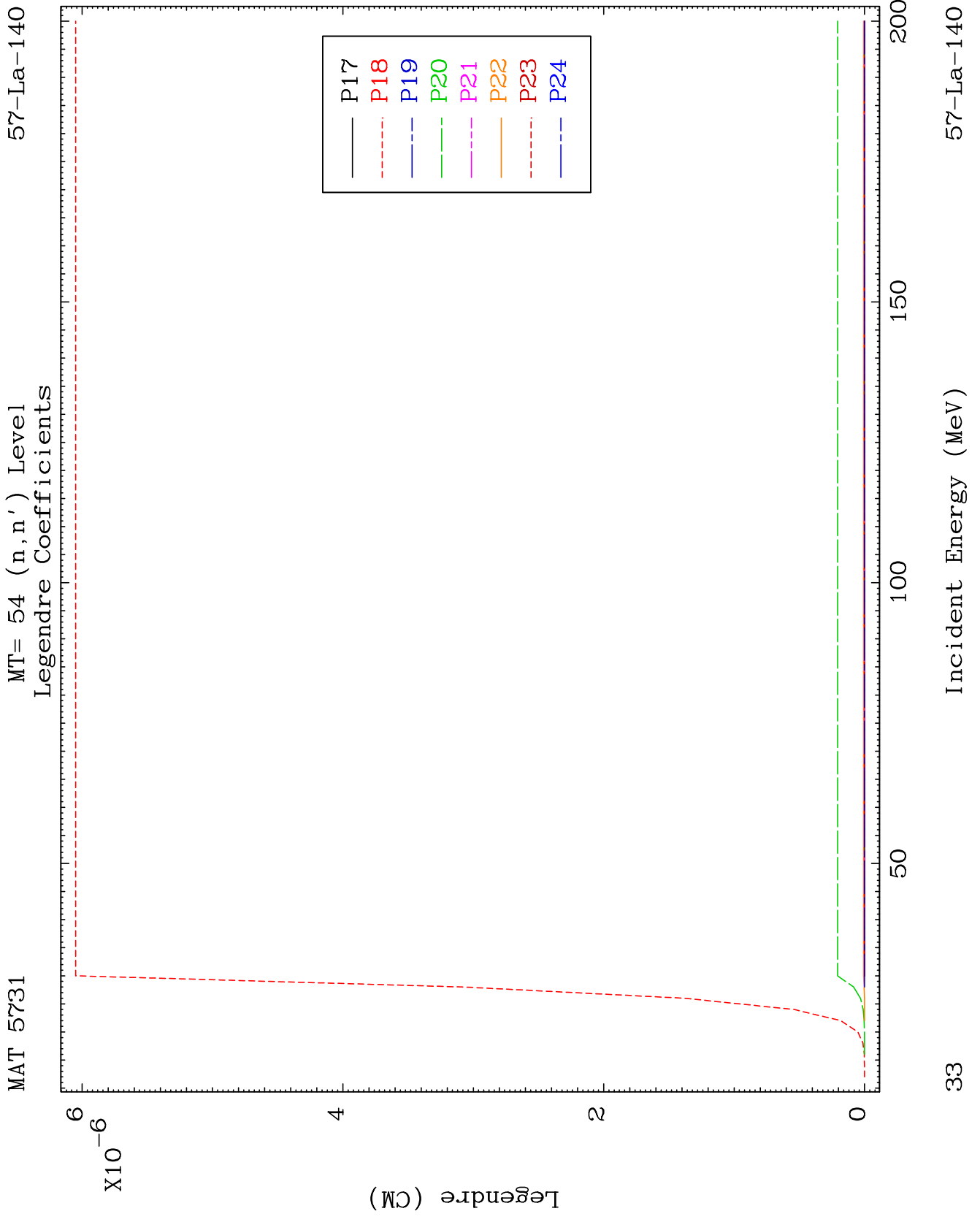
MT= 54 (n,n') Level  
Legendre Coefficients

57-La-140



32

57-La-140

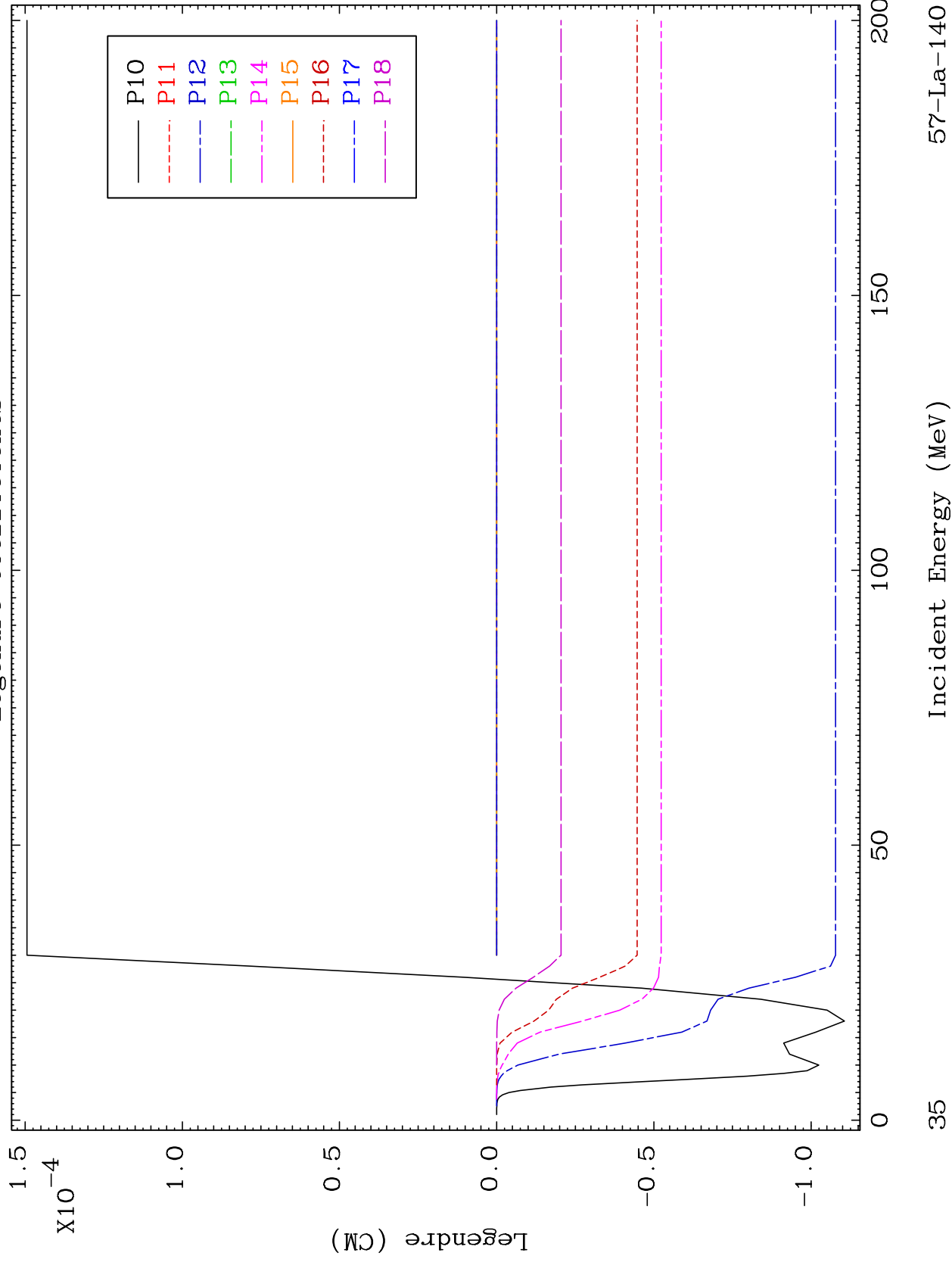




MAT 5731

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

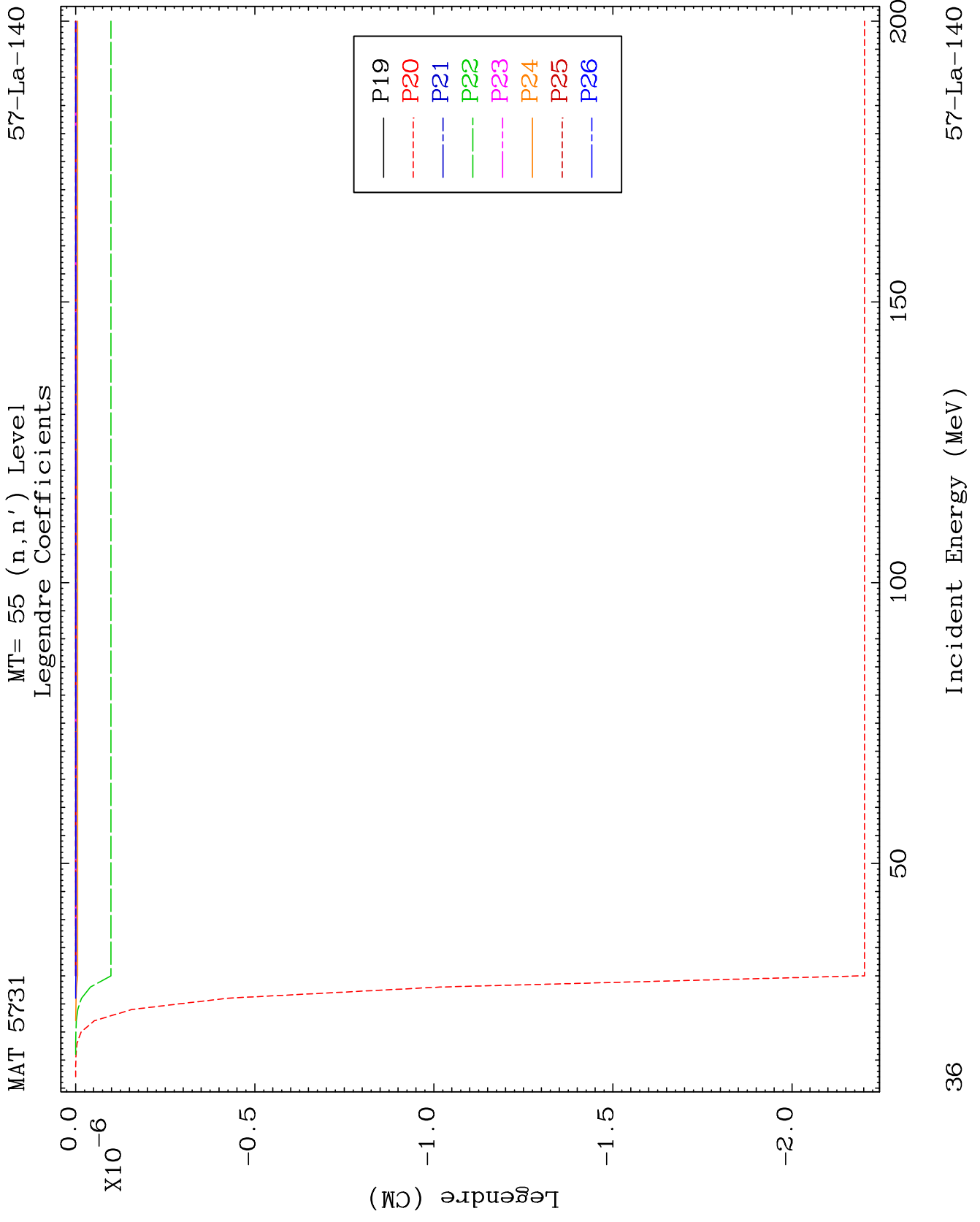
57-La-140



57-La-140

Incident Energy (MeV)

35

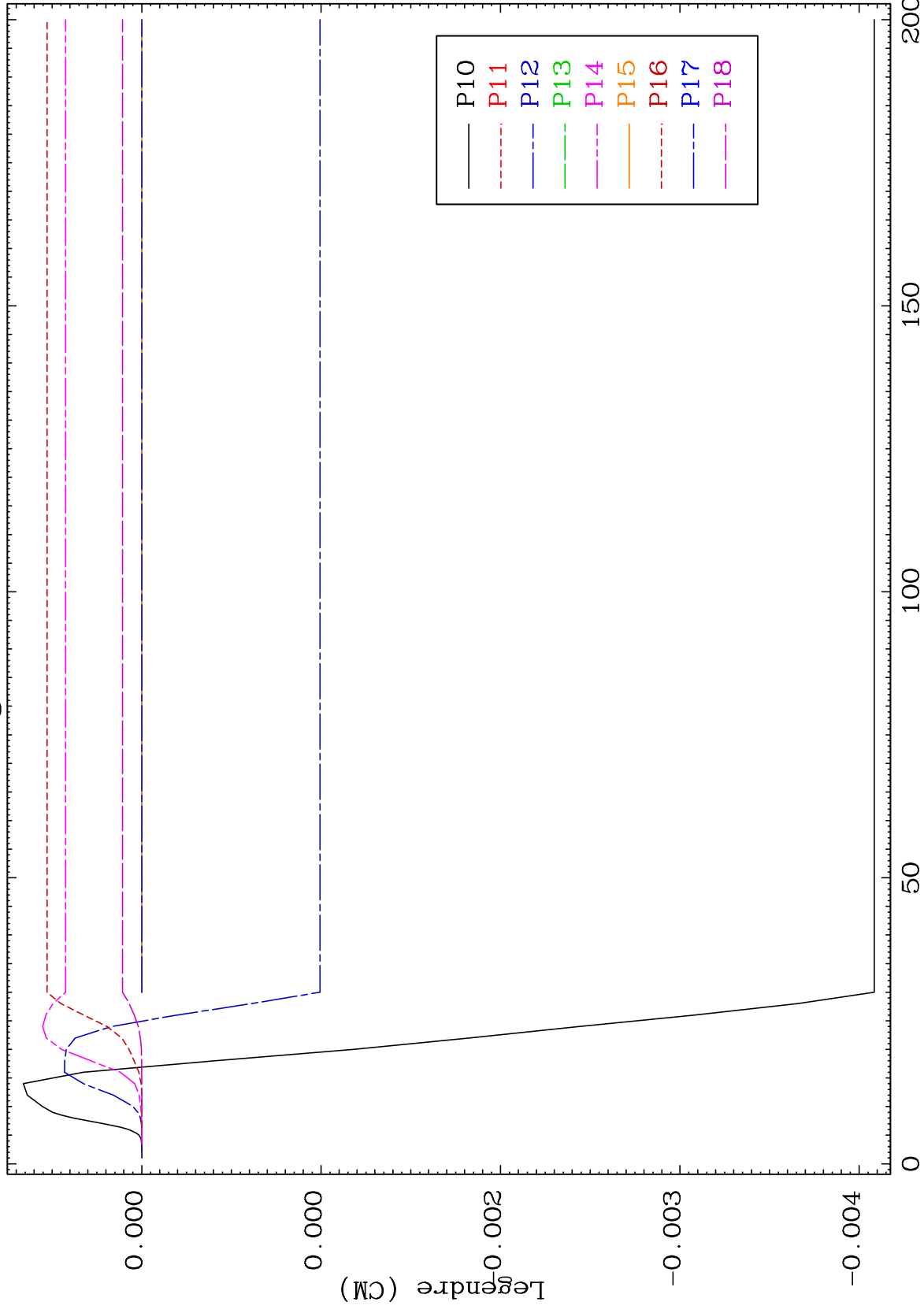




MAT 5731

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

57-La-140



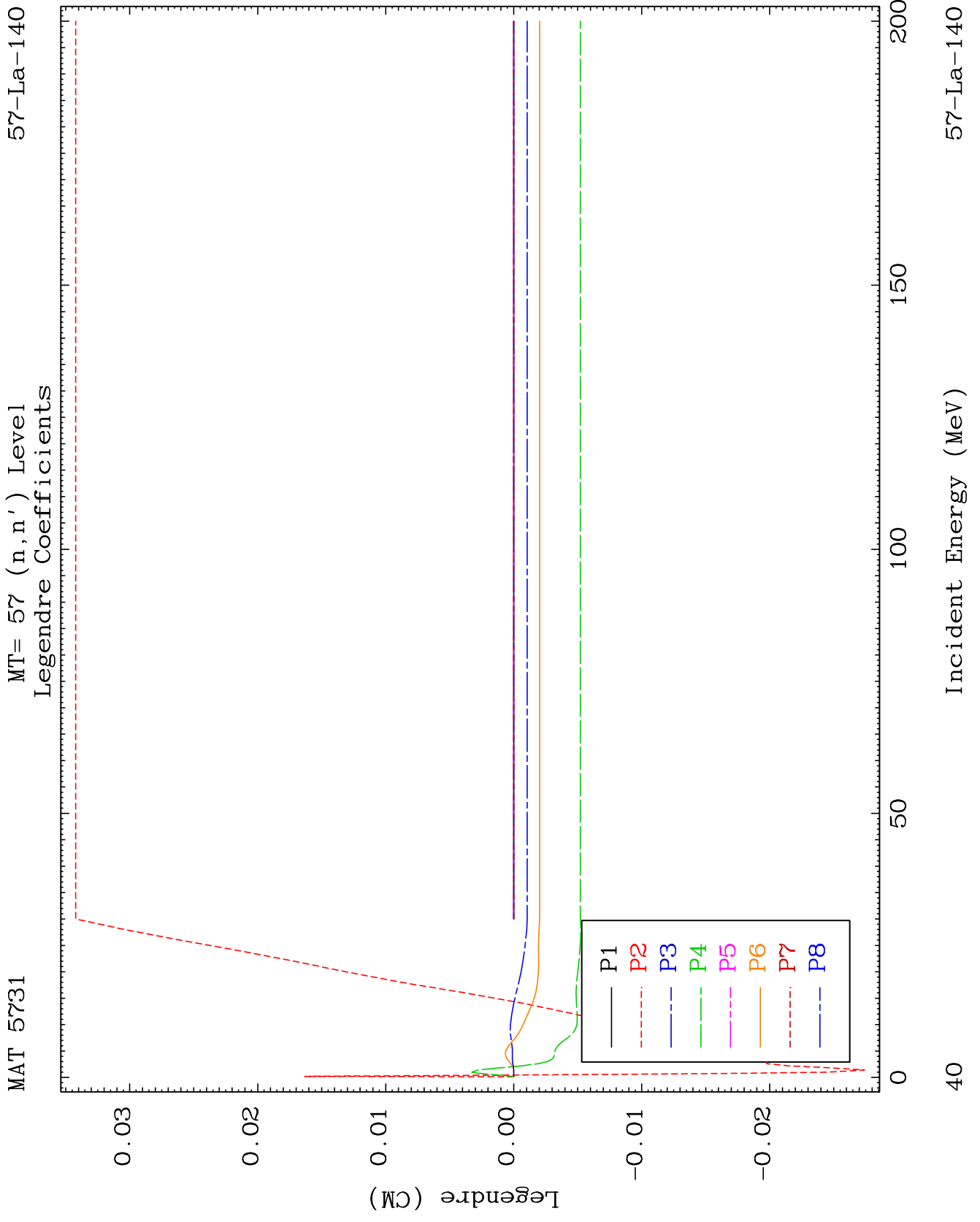
38

Incident Energy (MeV)

57-La-140



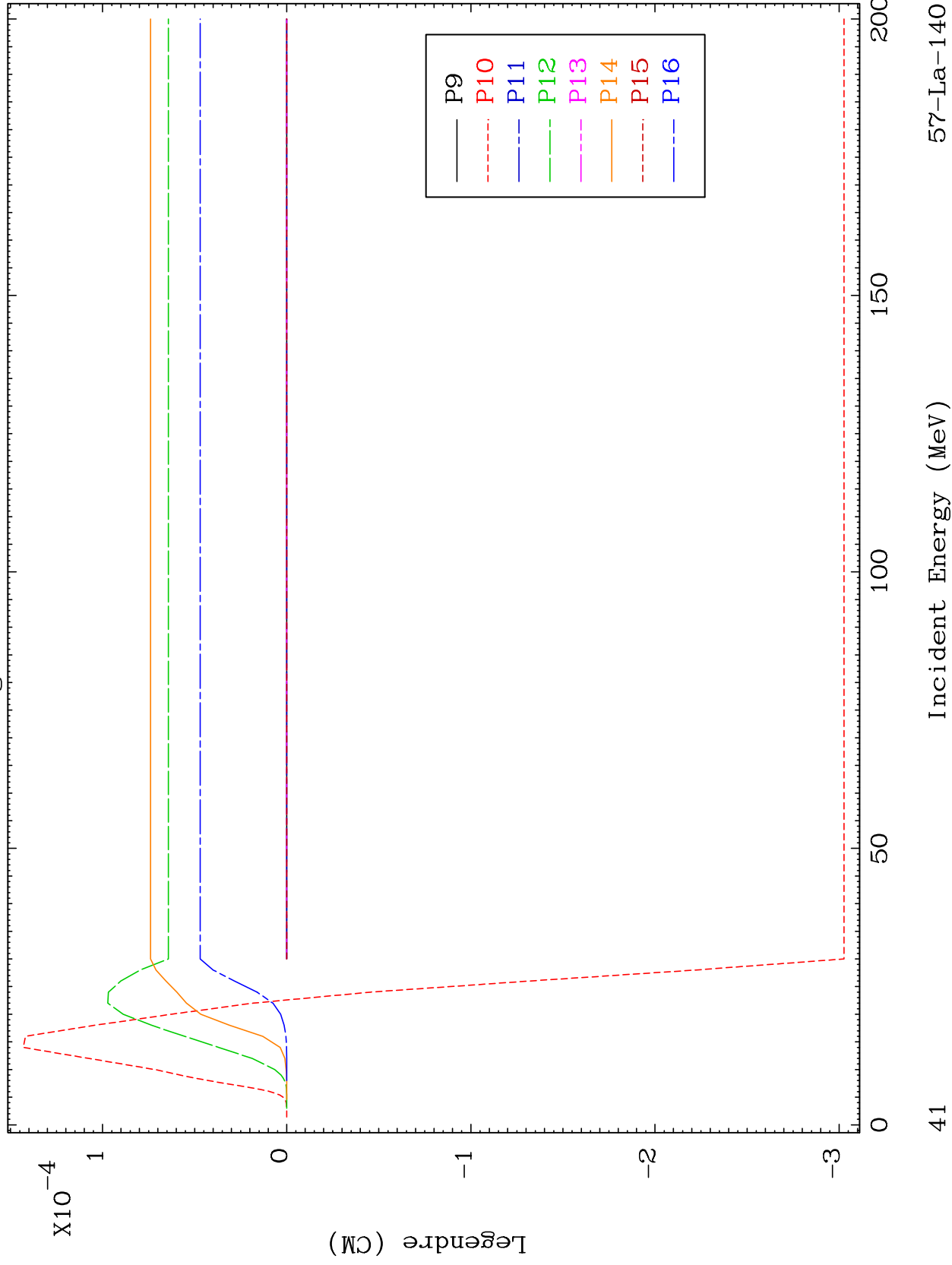


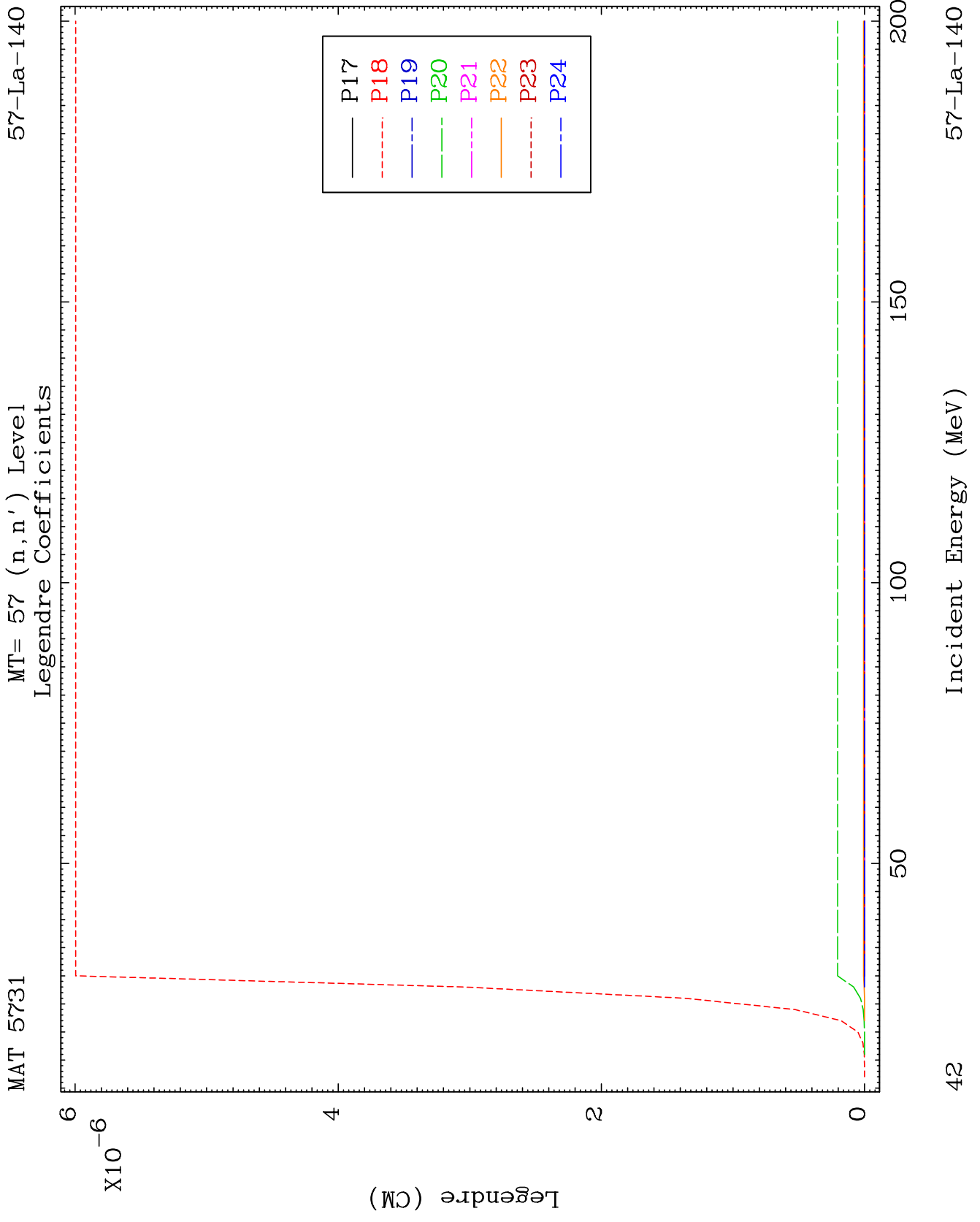


MAT 5731

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

57-La-140

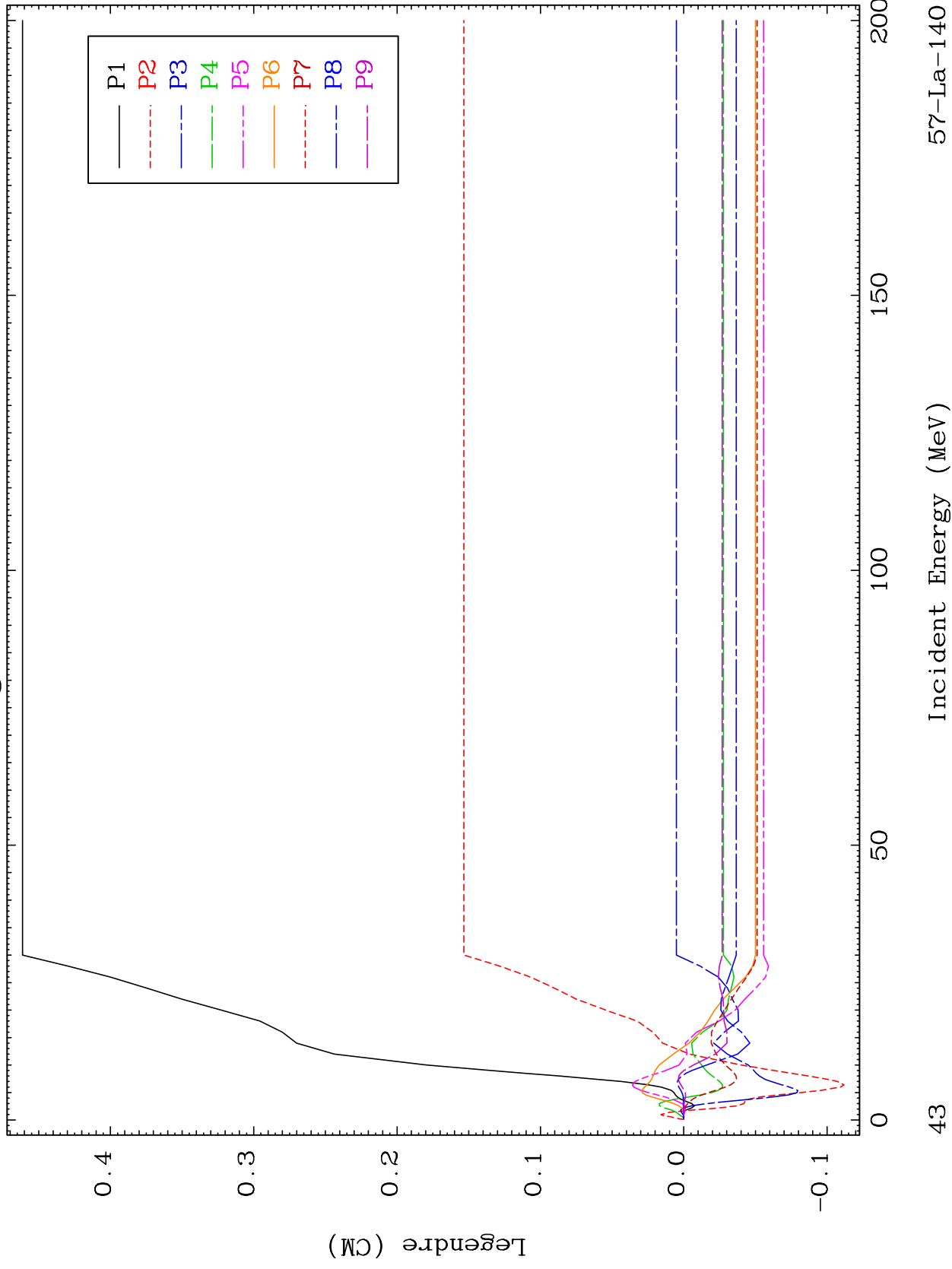




MAT 5731

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

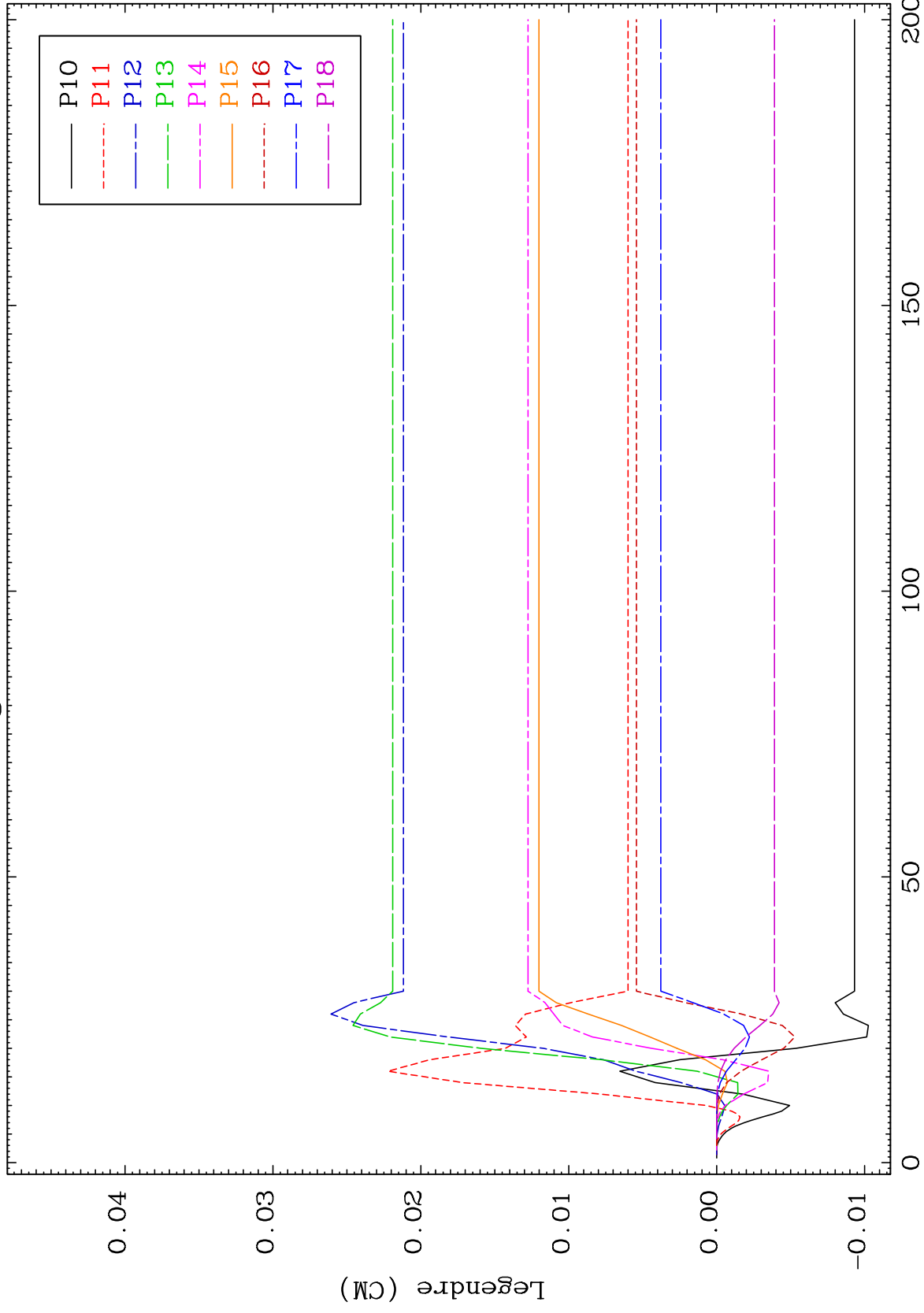
57-La-140



MAT 5731

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

57-La-140



44

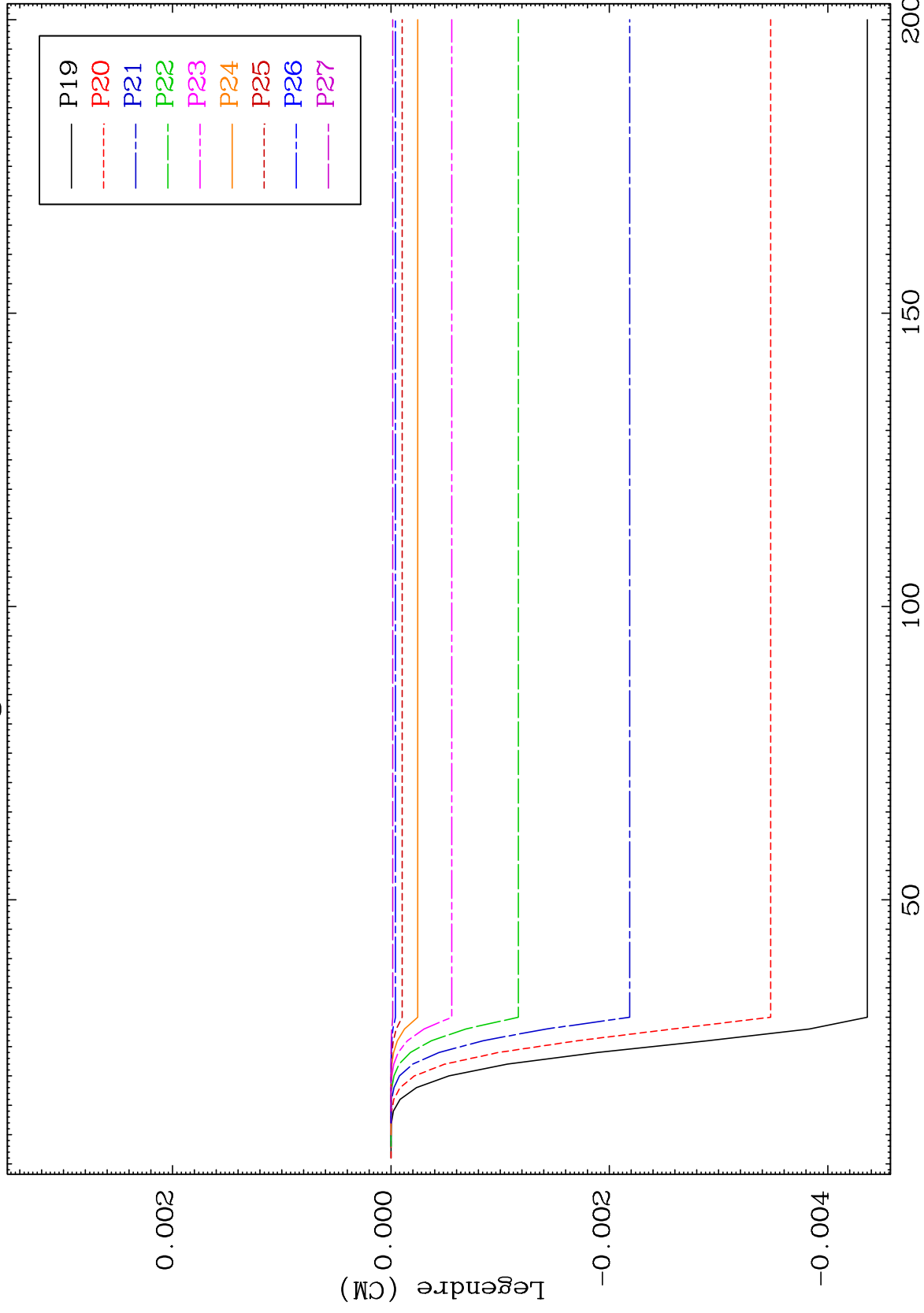
Incident Energy (MeV)

57-La-140

MAT 5731

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

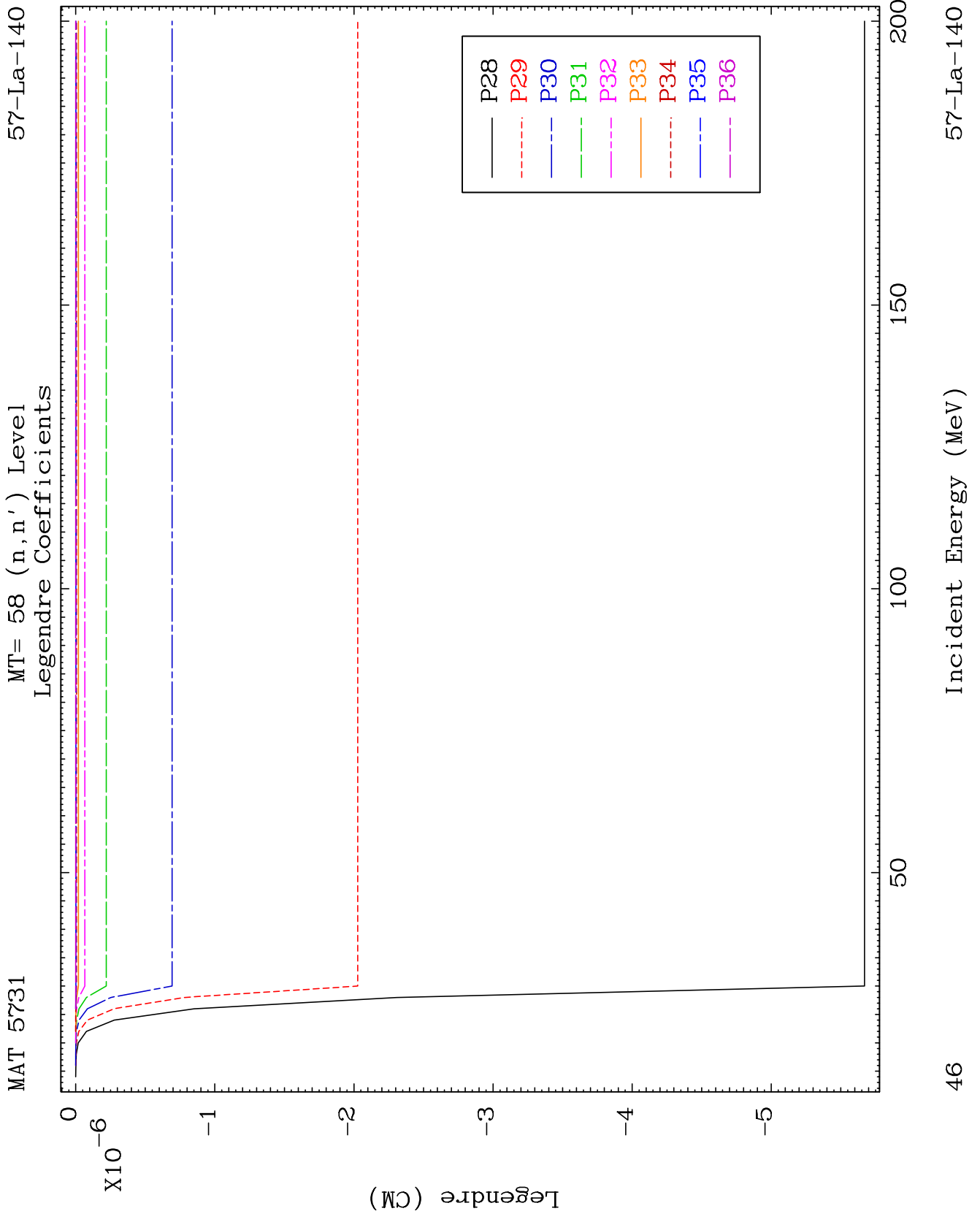
57-La-140

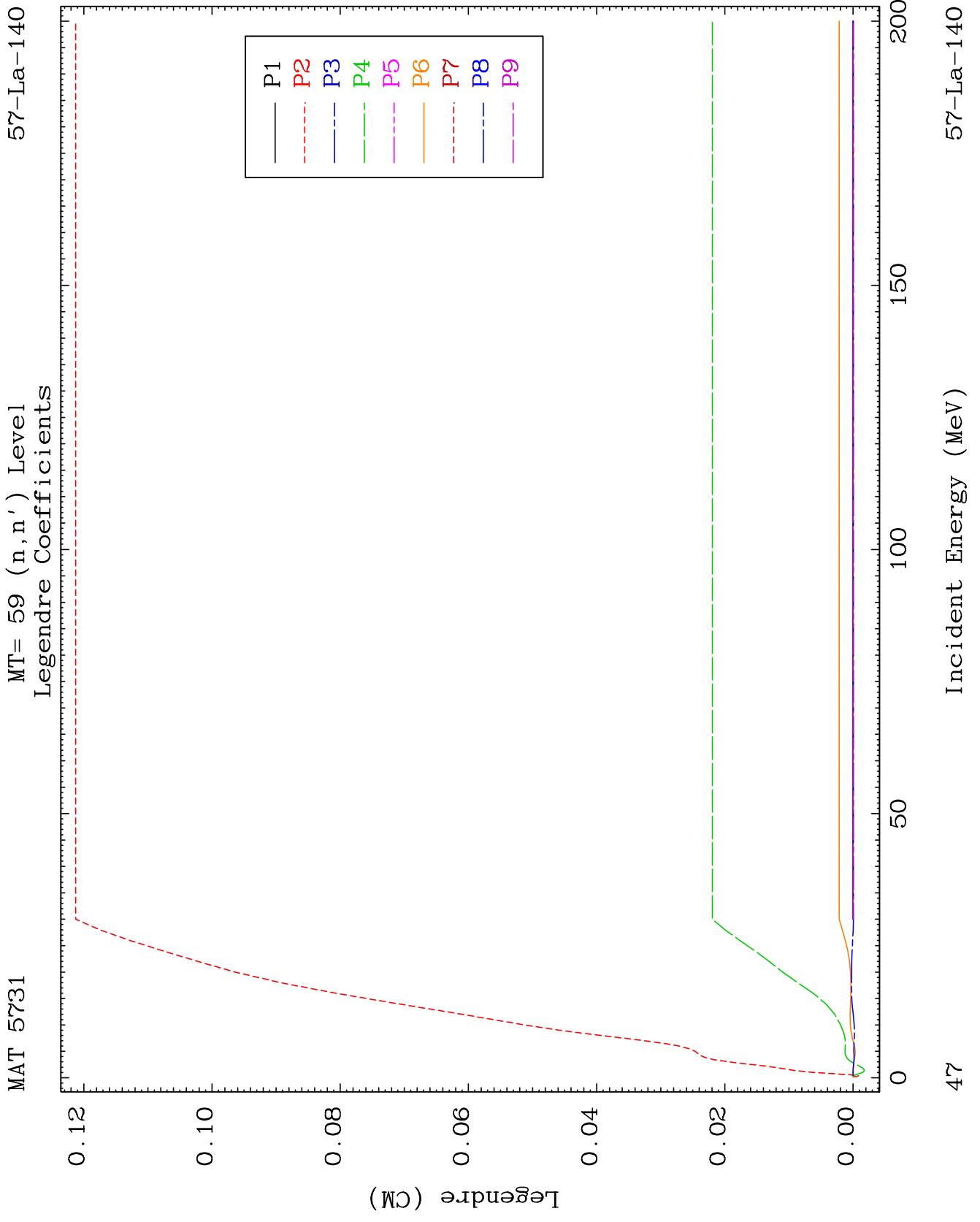


45

Incident Energy (MeV)

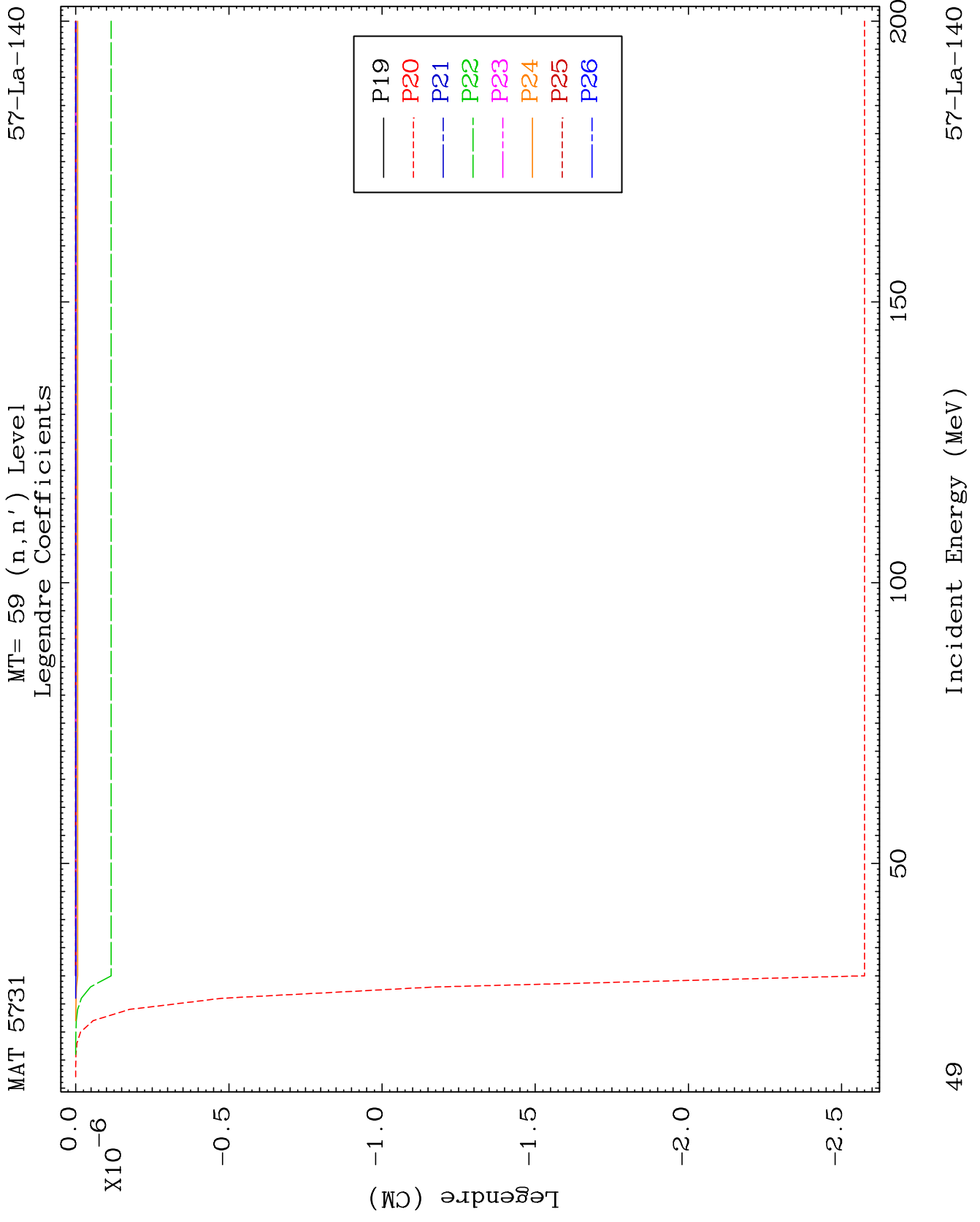
57-La-140









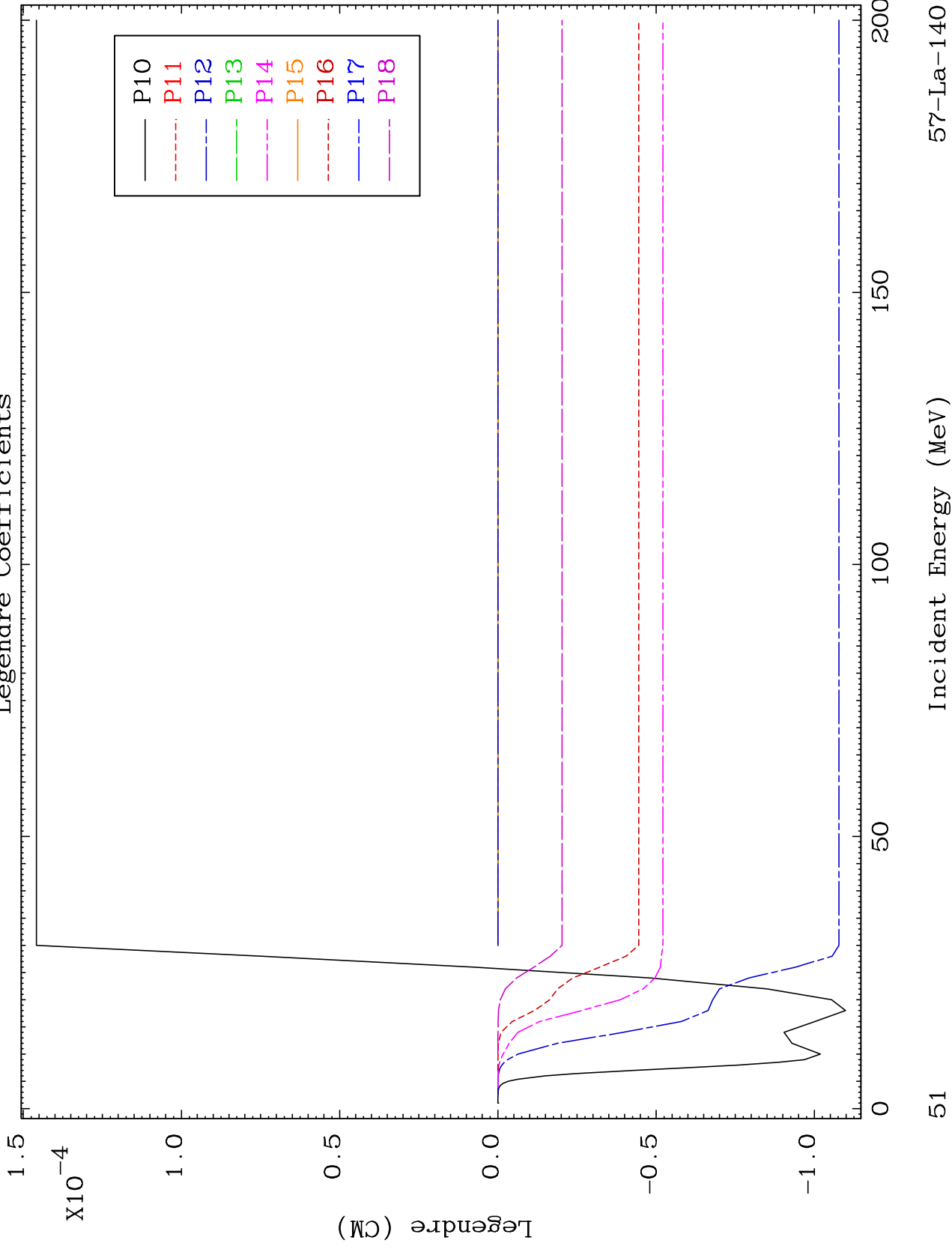




MAT 5731

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

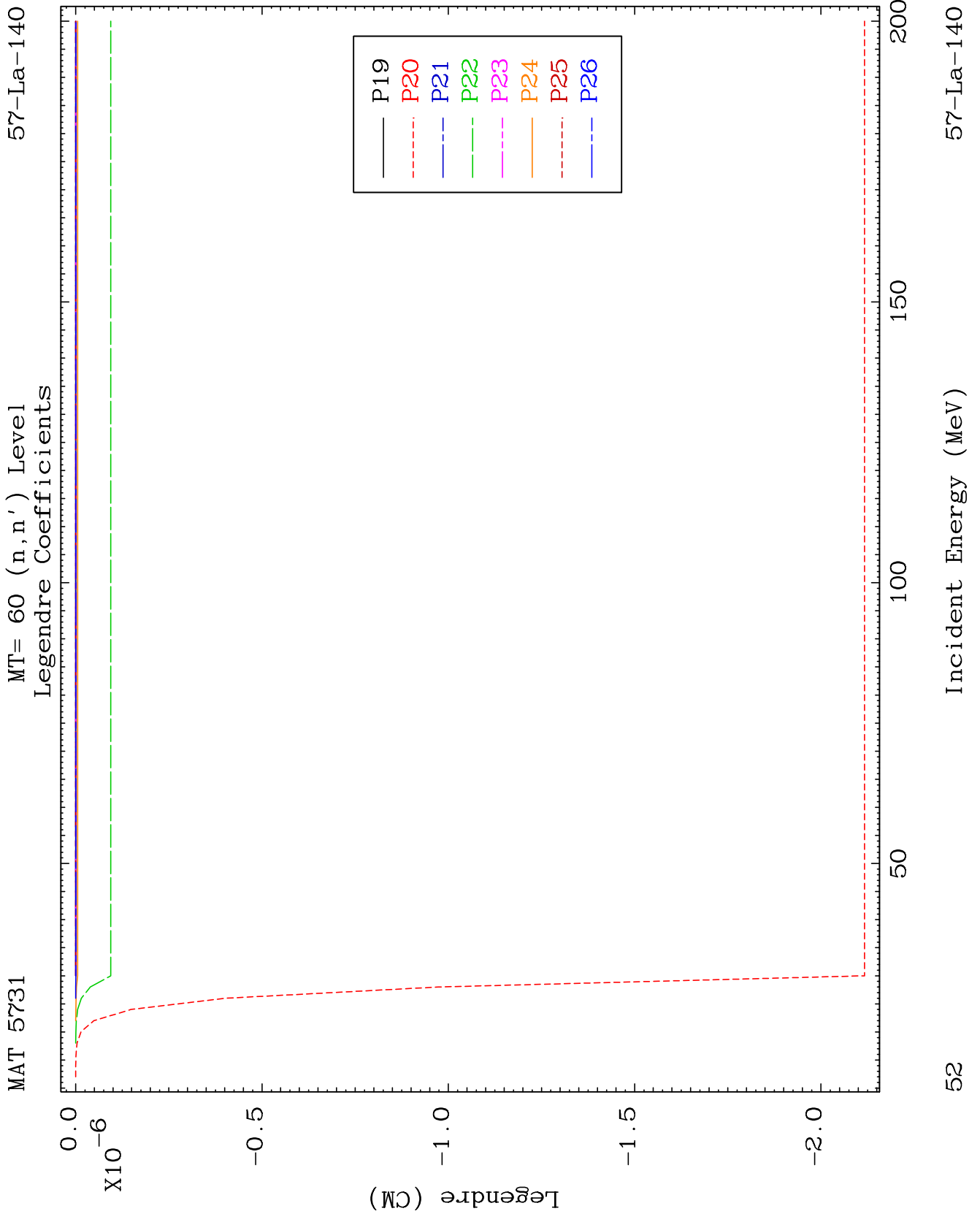
57-La-140



57-La-140

Incident Energy (MeV)

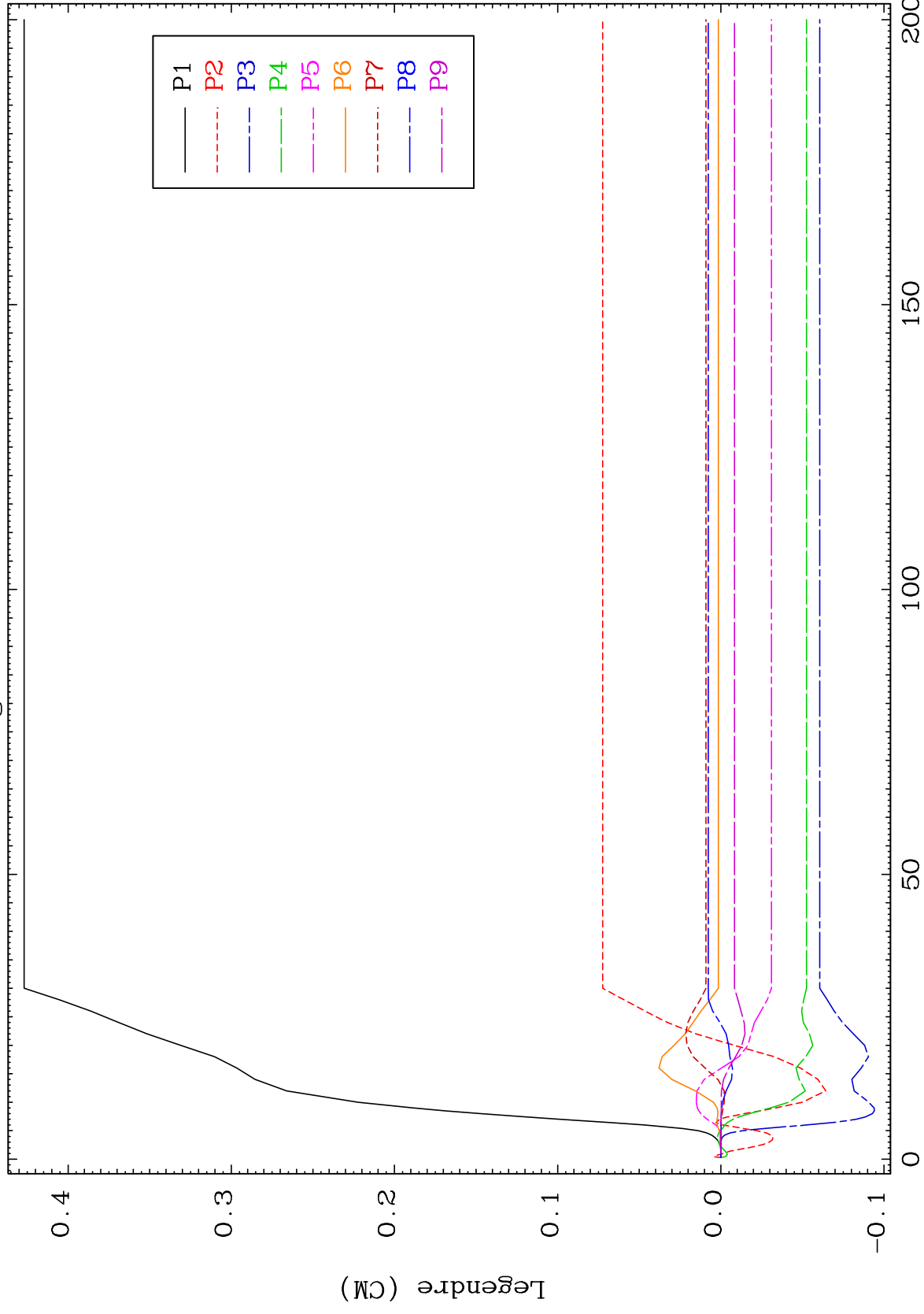
51



MAT 5731

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

57-La-140



57-La-140

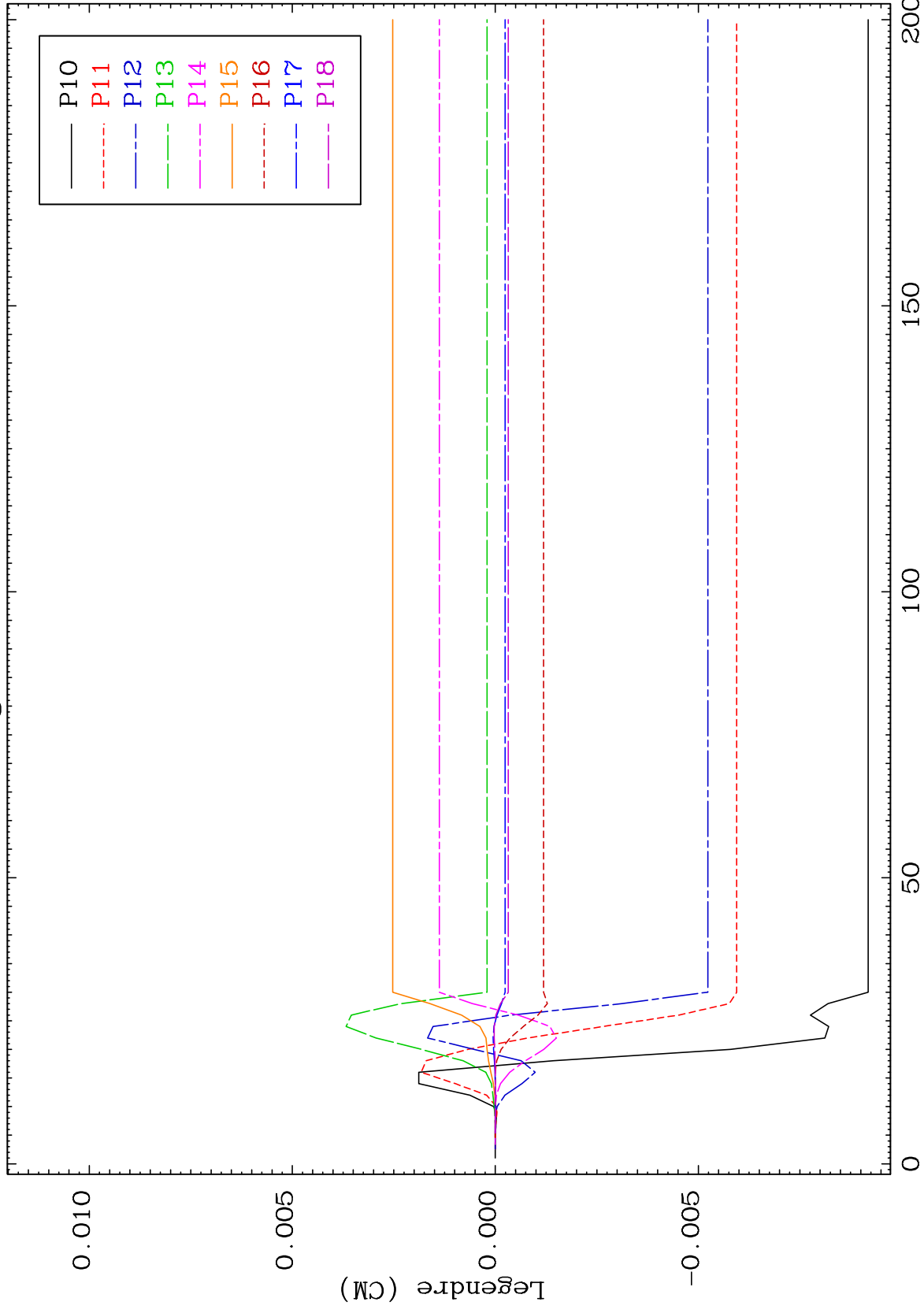
Incident Energy (MeV)

53

MAT 5731

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

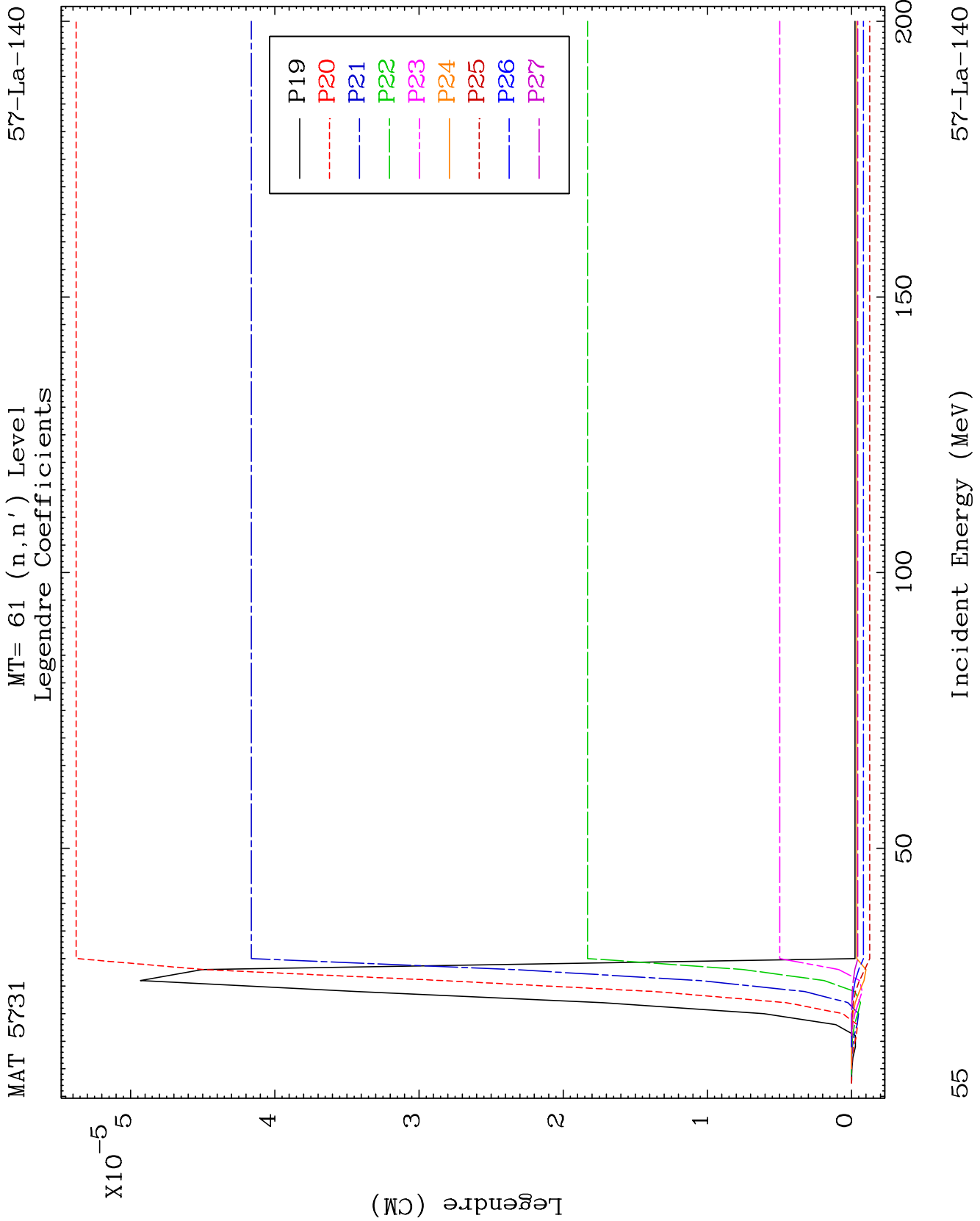
57-La-140



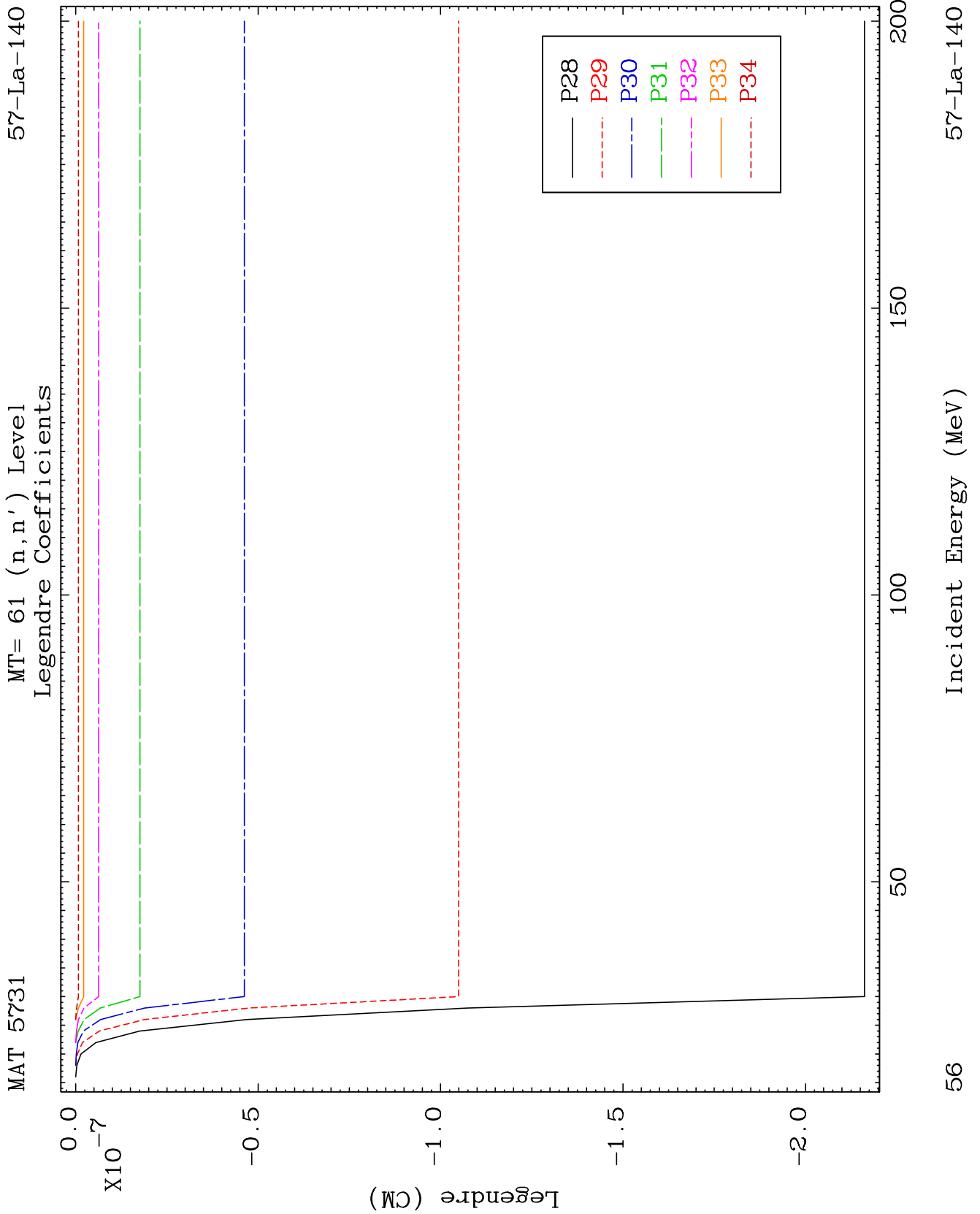
54

Incident Energy (MeV)

57-La-140



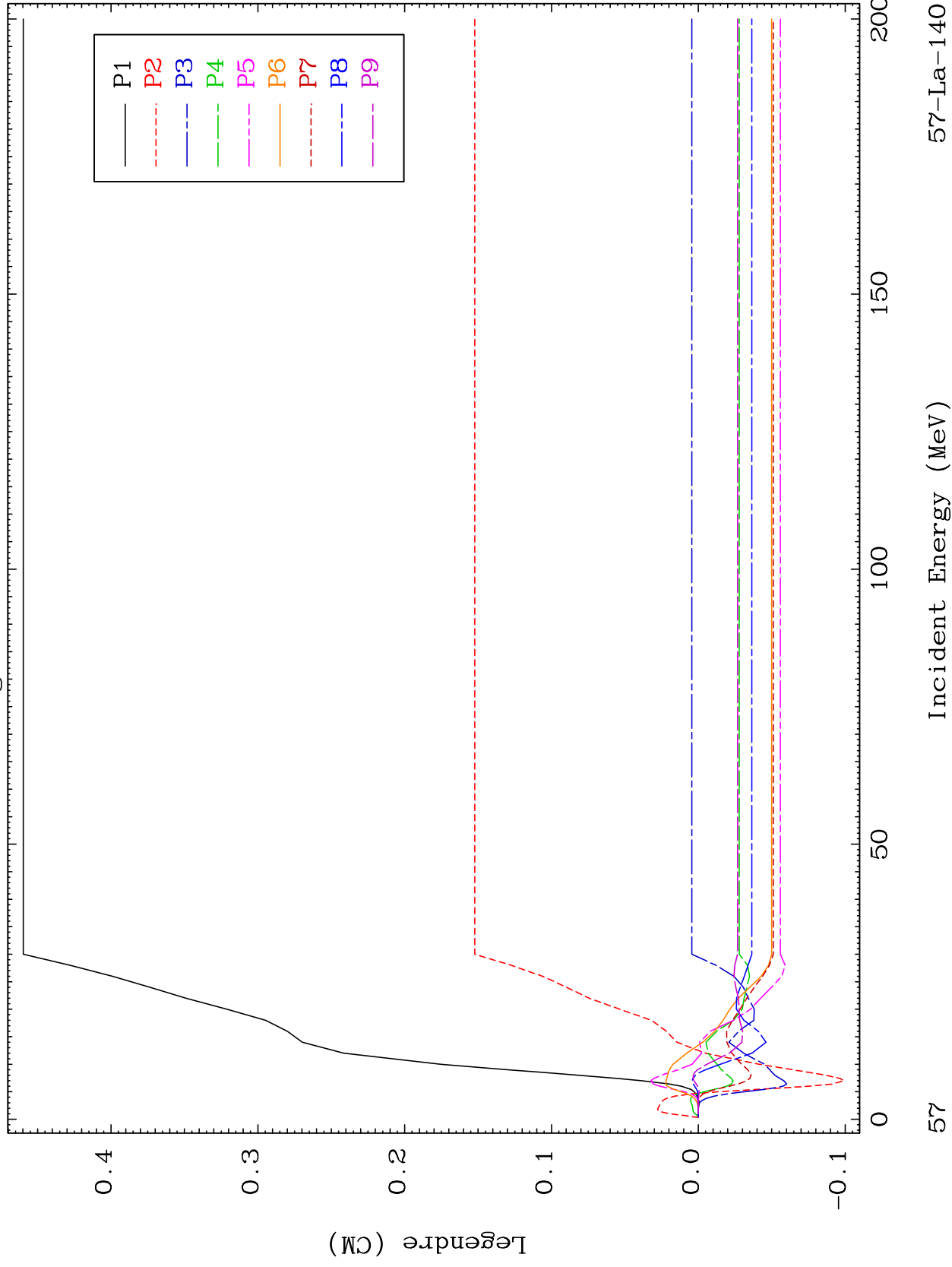




MAT 5731

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

57-La-140



57-La-140

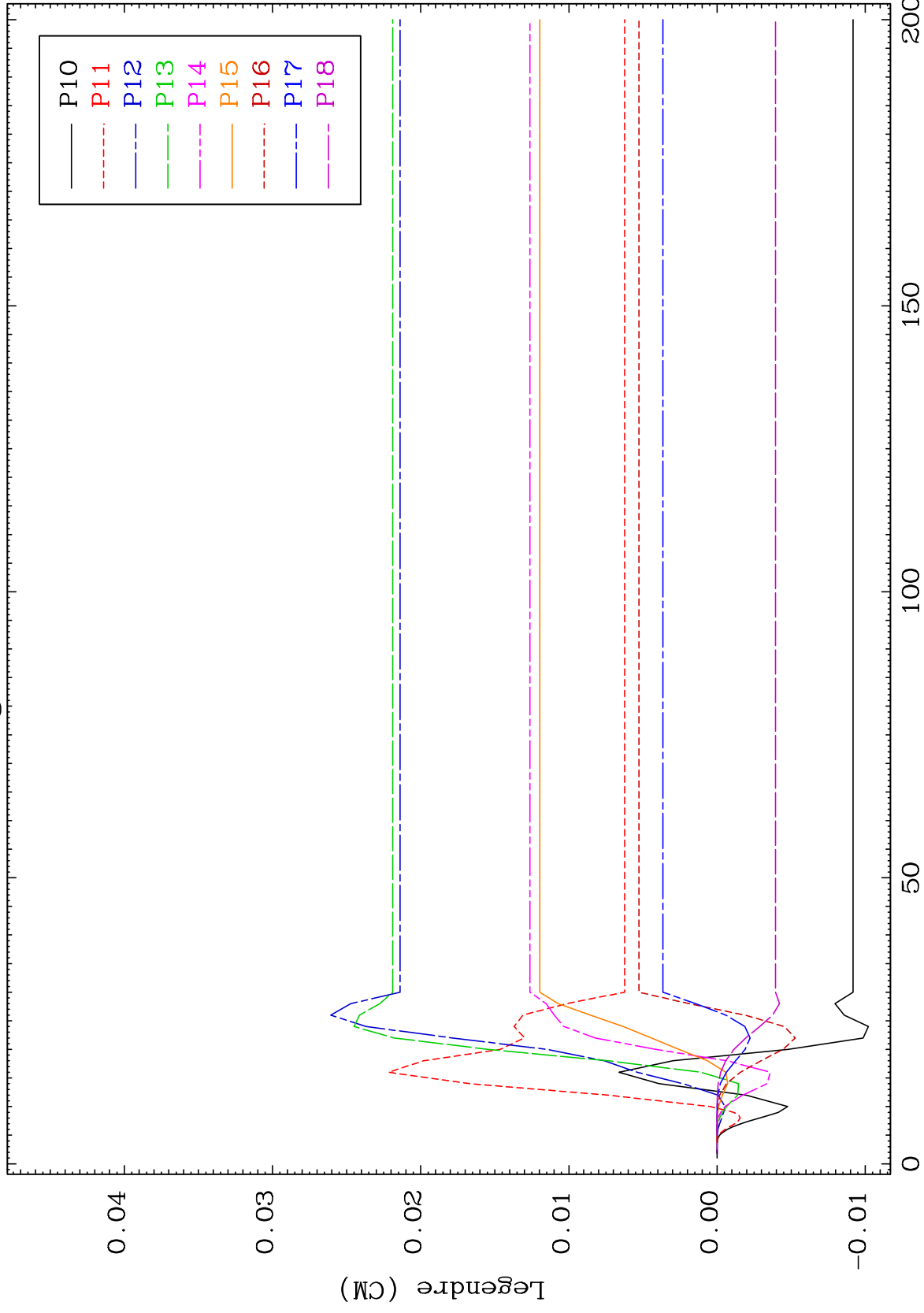
Incident Energy (MeV)

57

MAT 5731

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

57-La-140



58

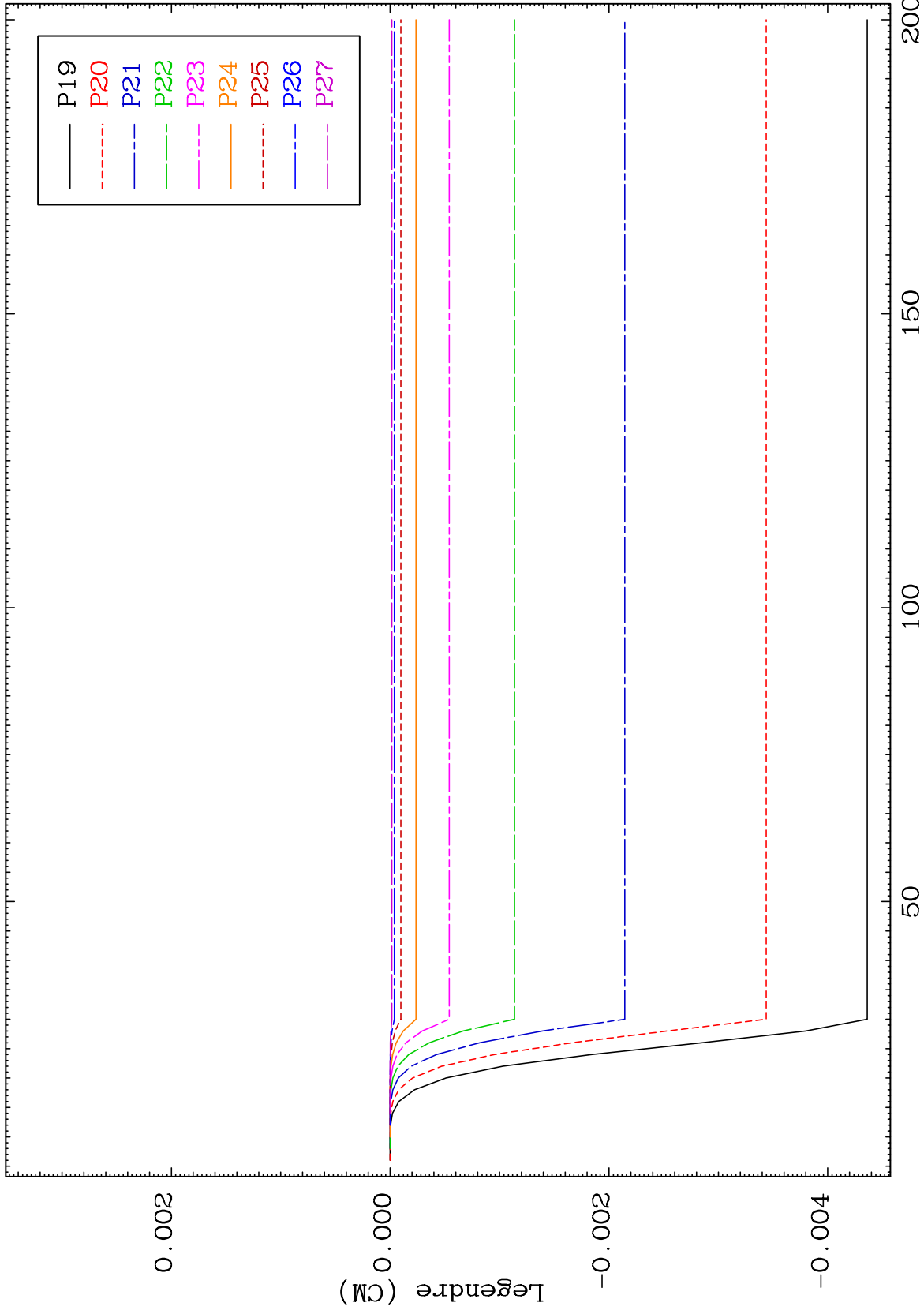
Incident Energy (MeV)

57-La-140

MAT 5731

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

57-La-140

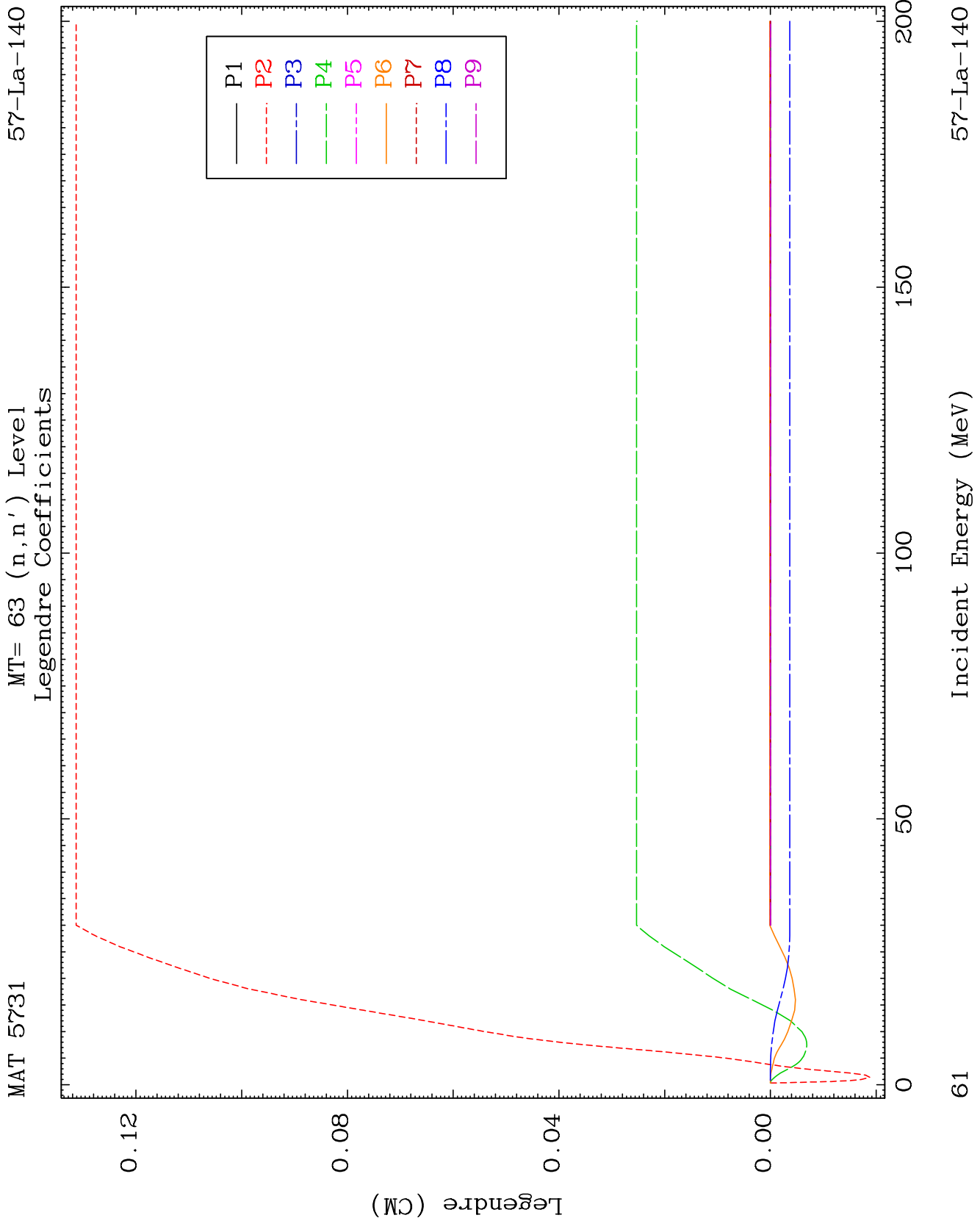


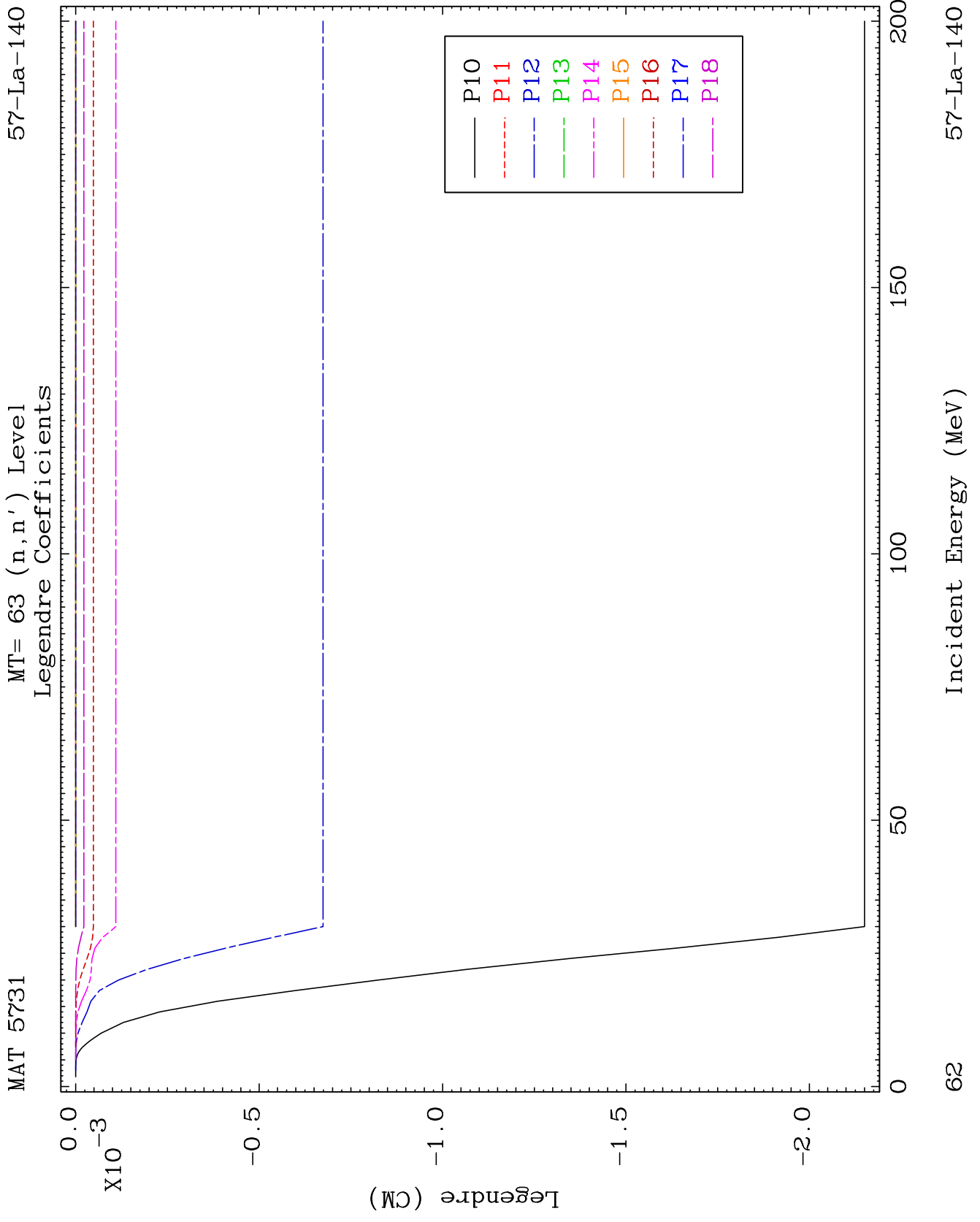
59

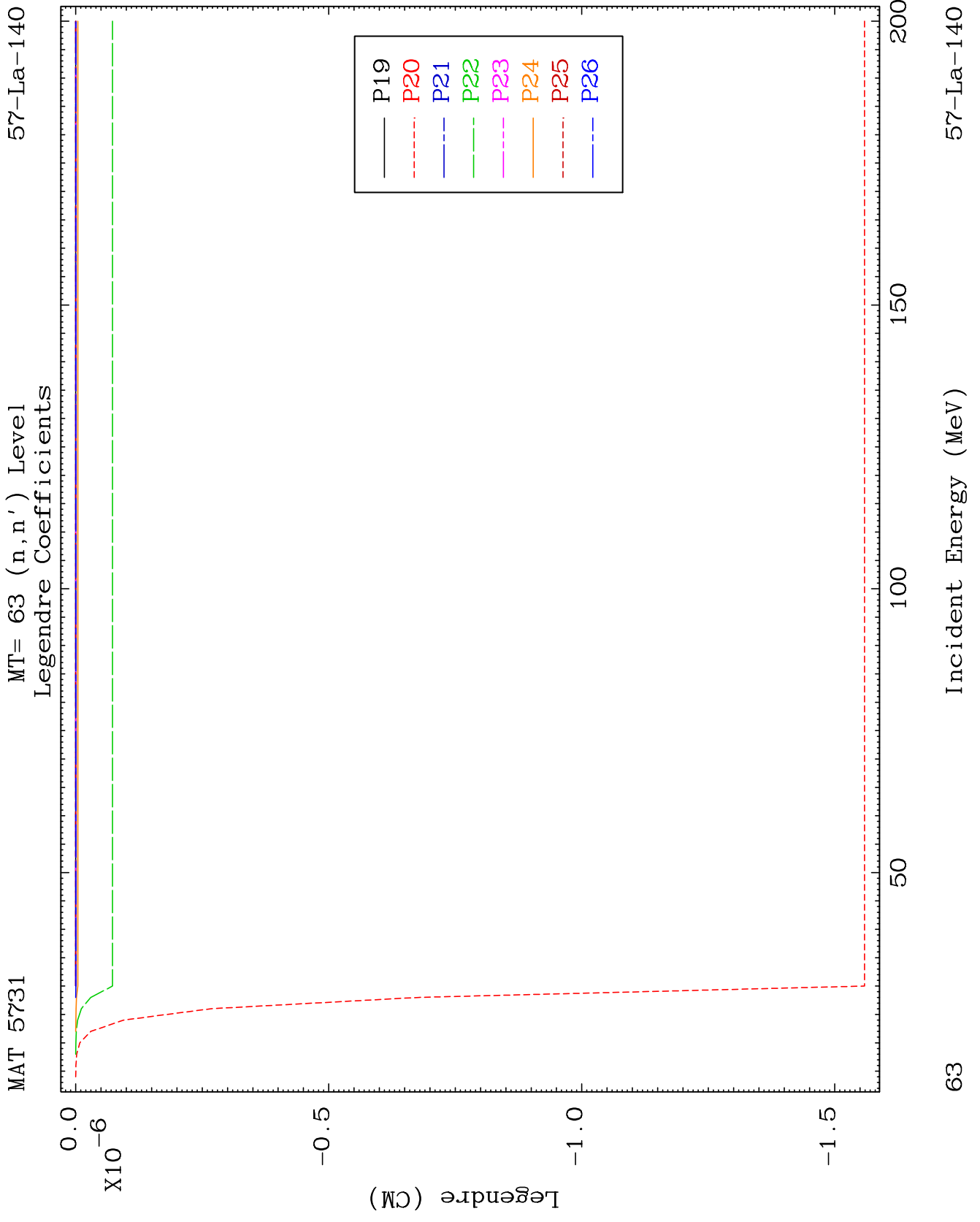
Incident Energy (MeV)

57-La-140







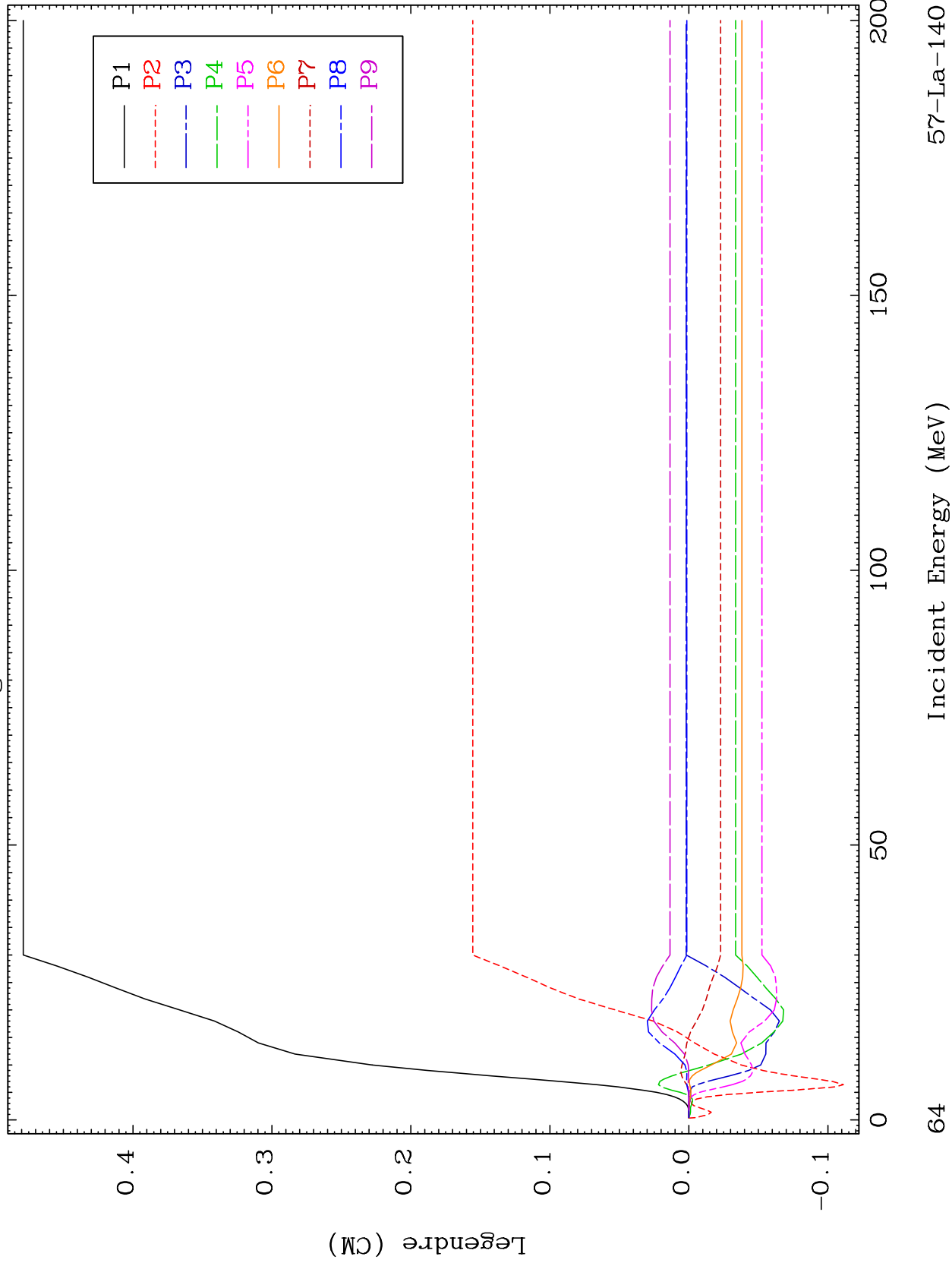




MAT 5731

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

57-La-140



57-La-140

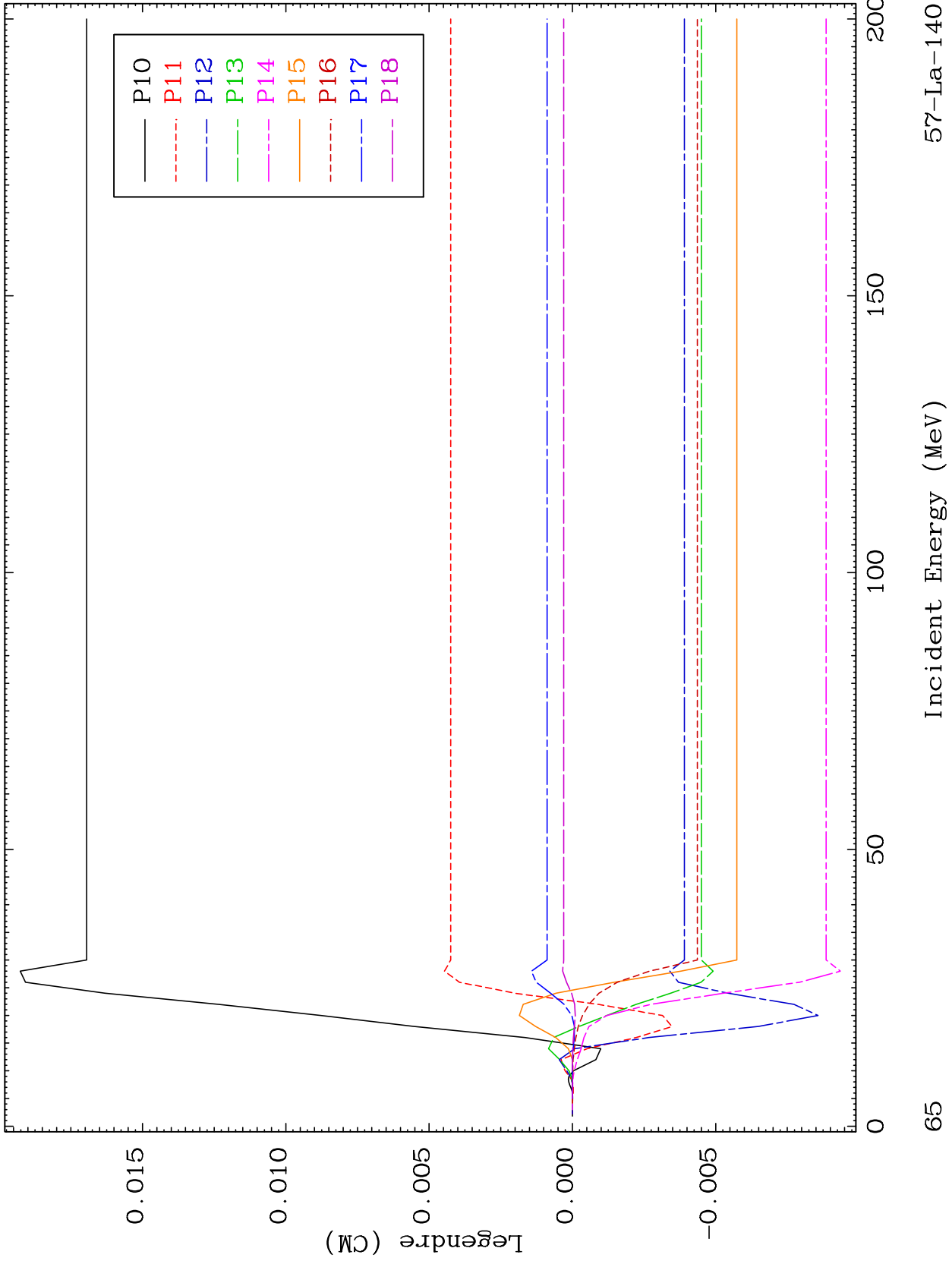
Incident Energy (MeV)

64

MAT 5731

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

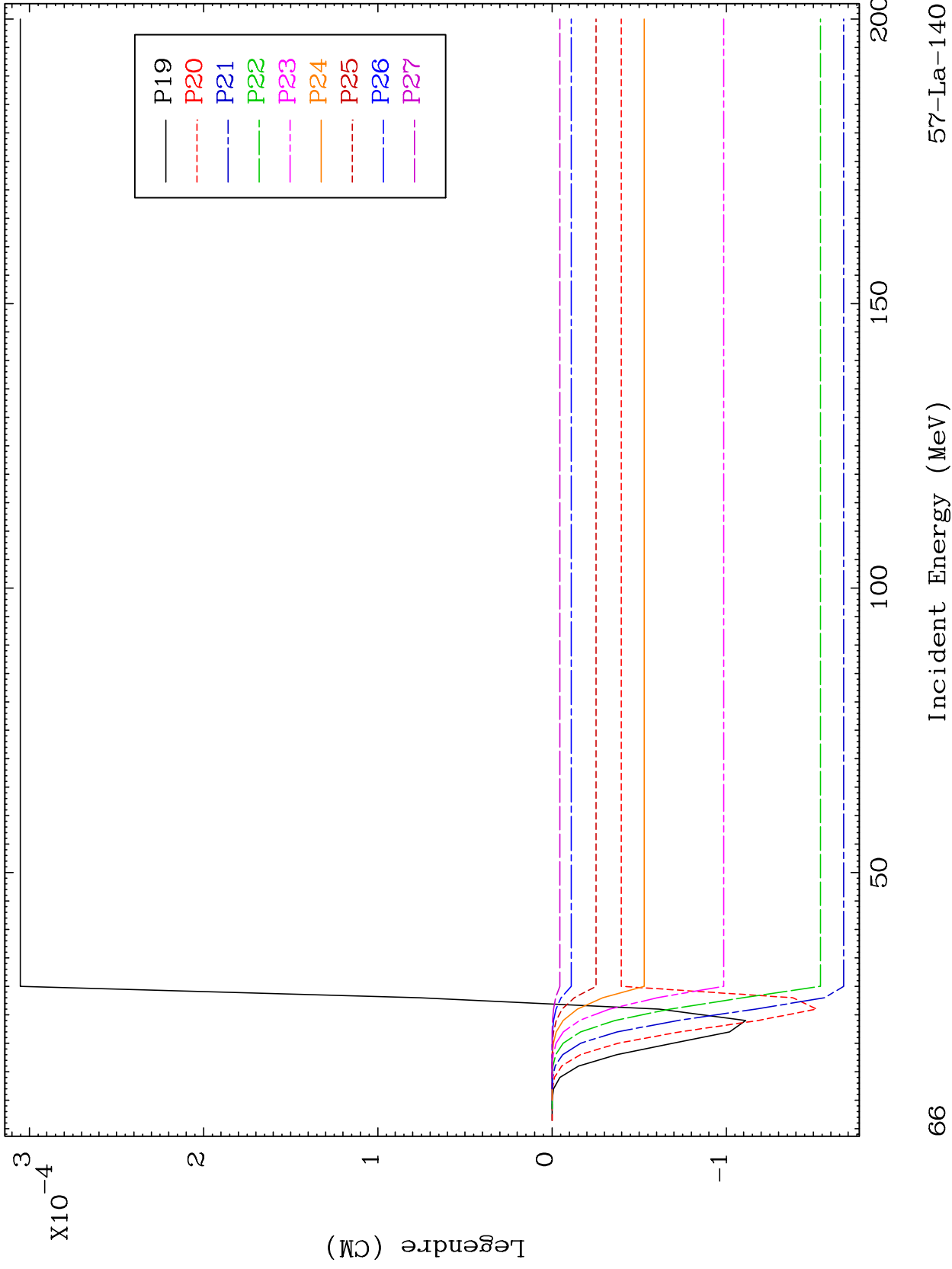
57-La-140



57-La-140

Incident Energy (MeV)

65

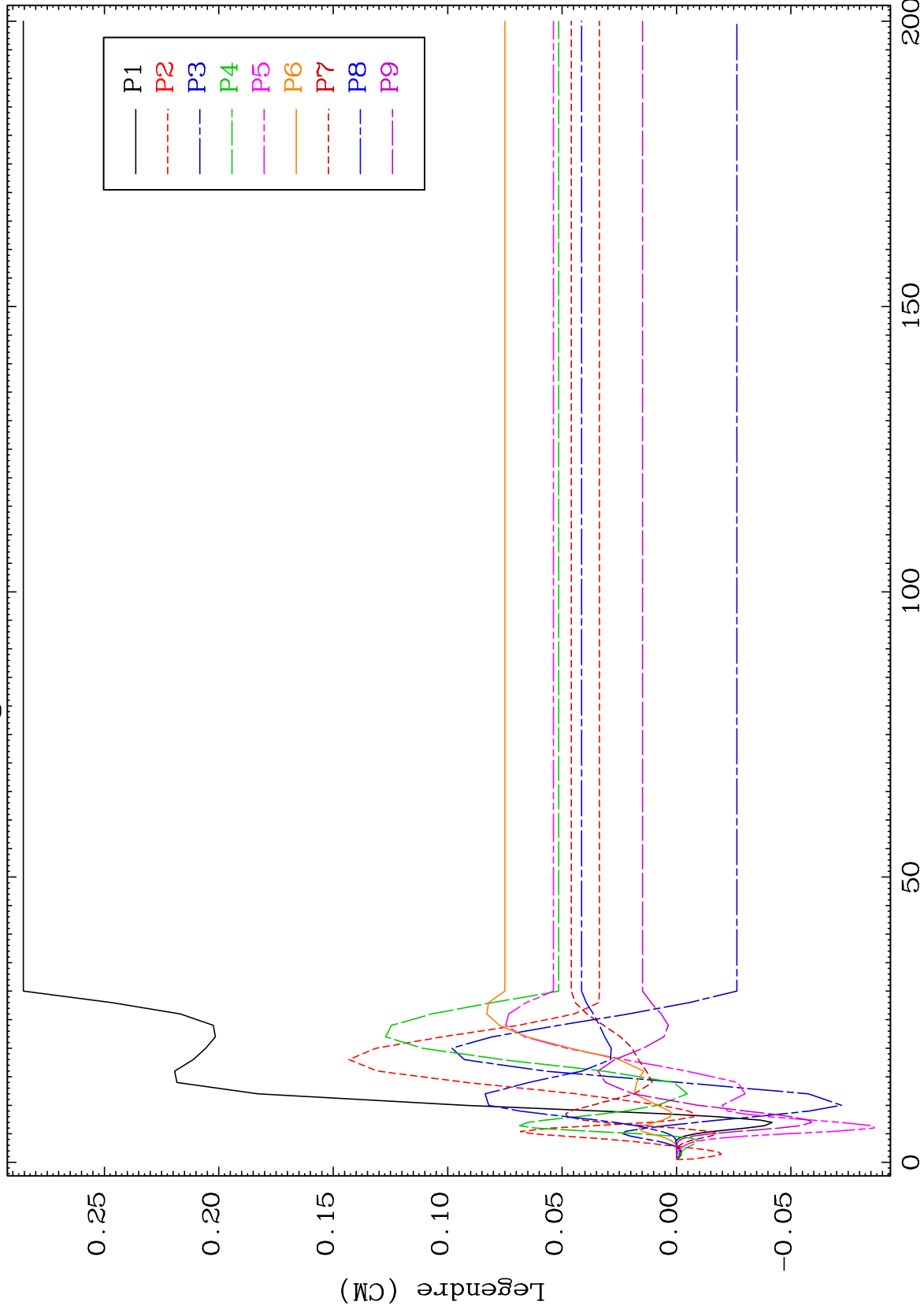




MAT 5731

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

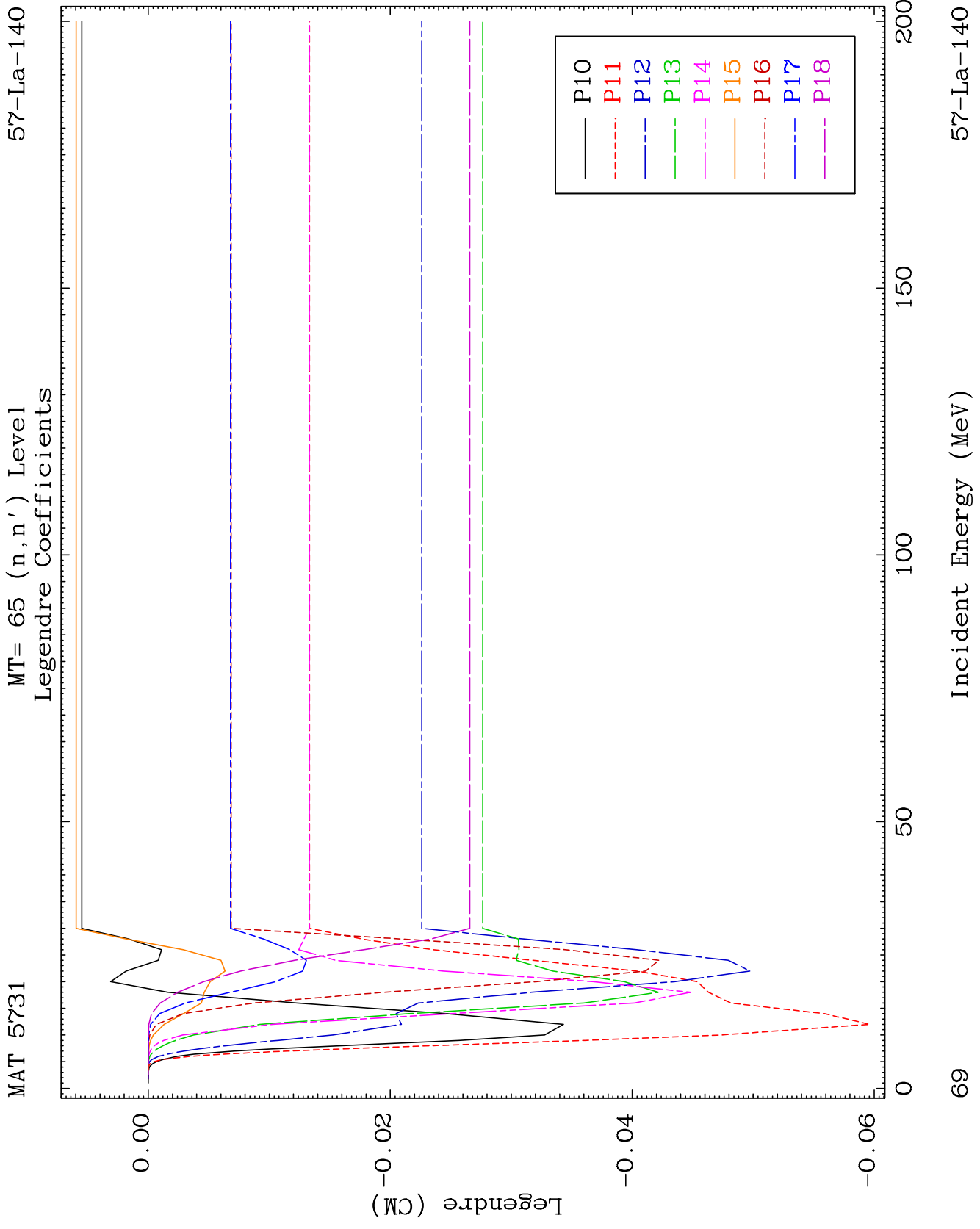
57-La-140

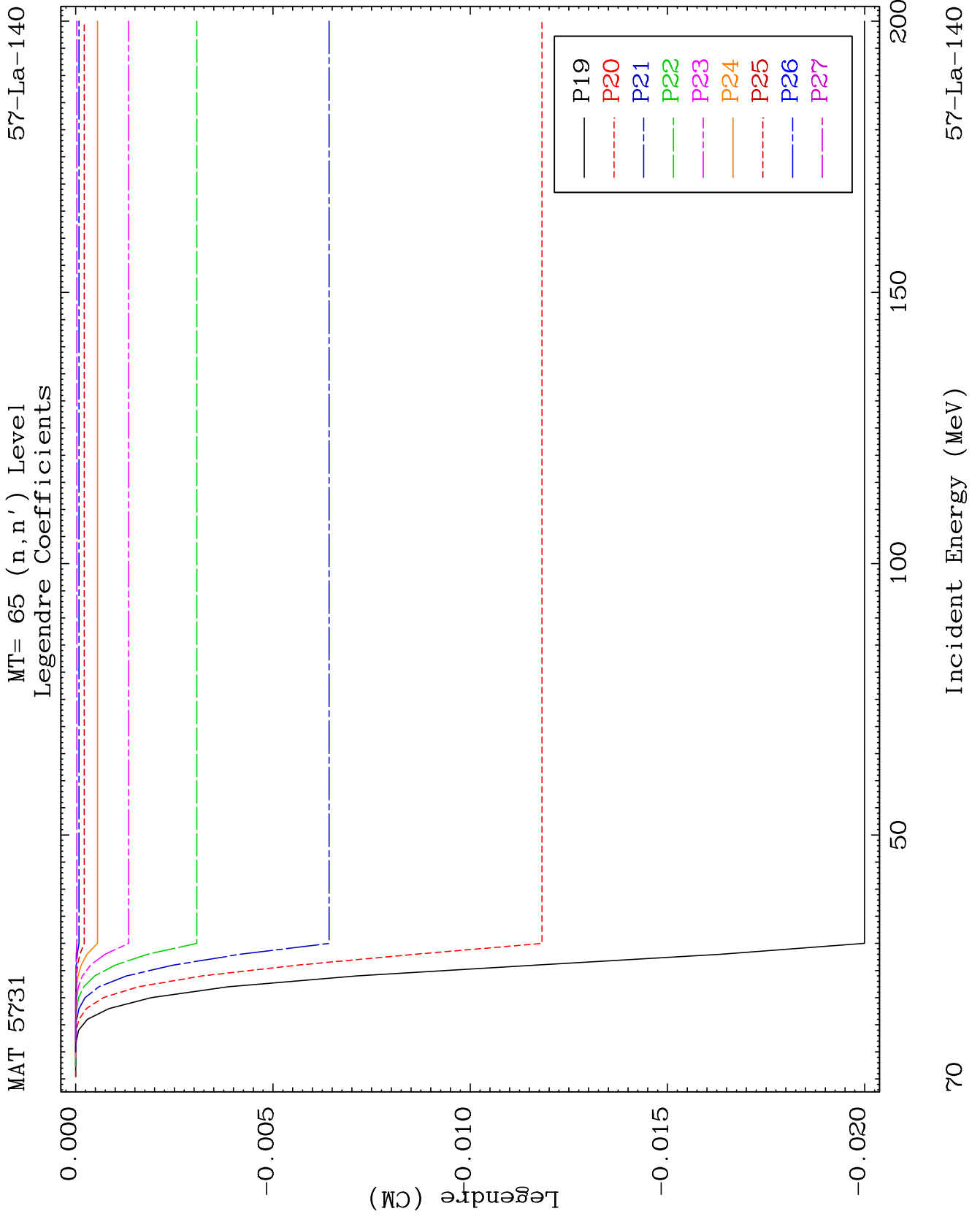


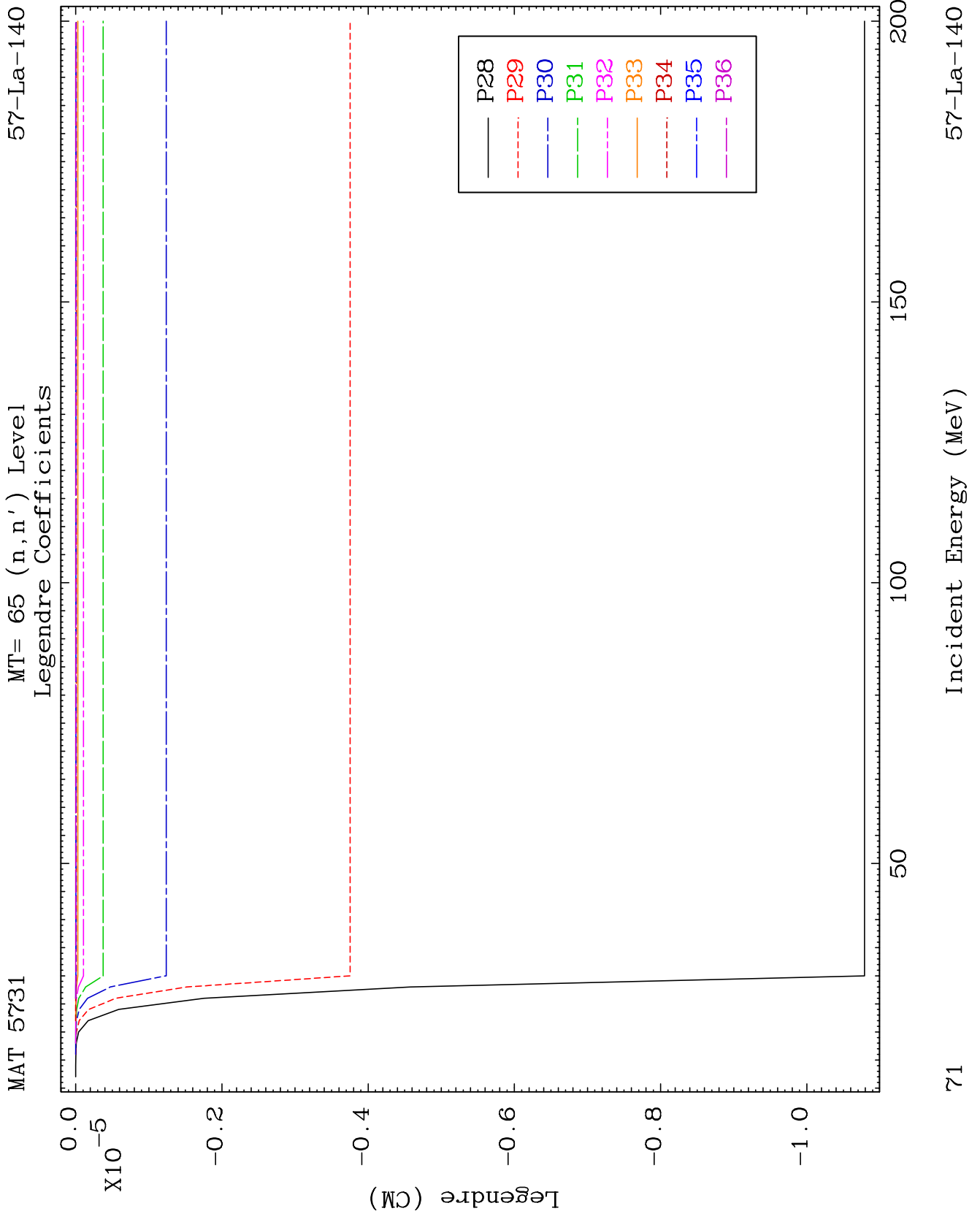
68

Incident Energy (MeV)

57-La-140







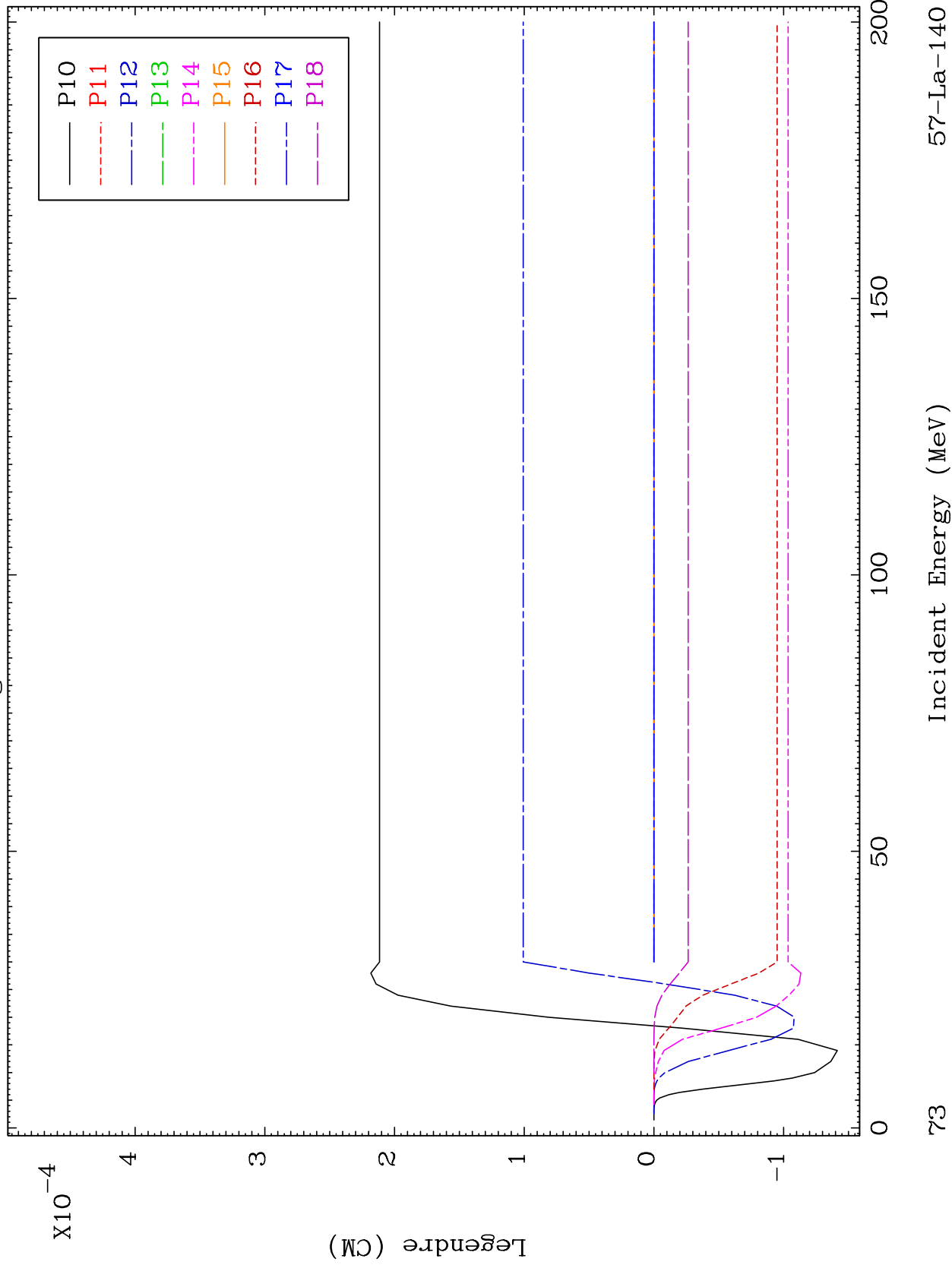


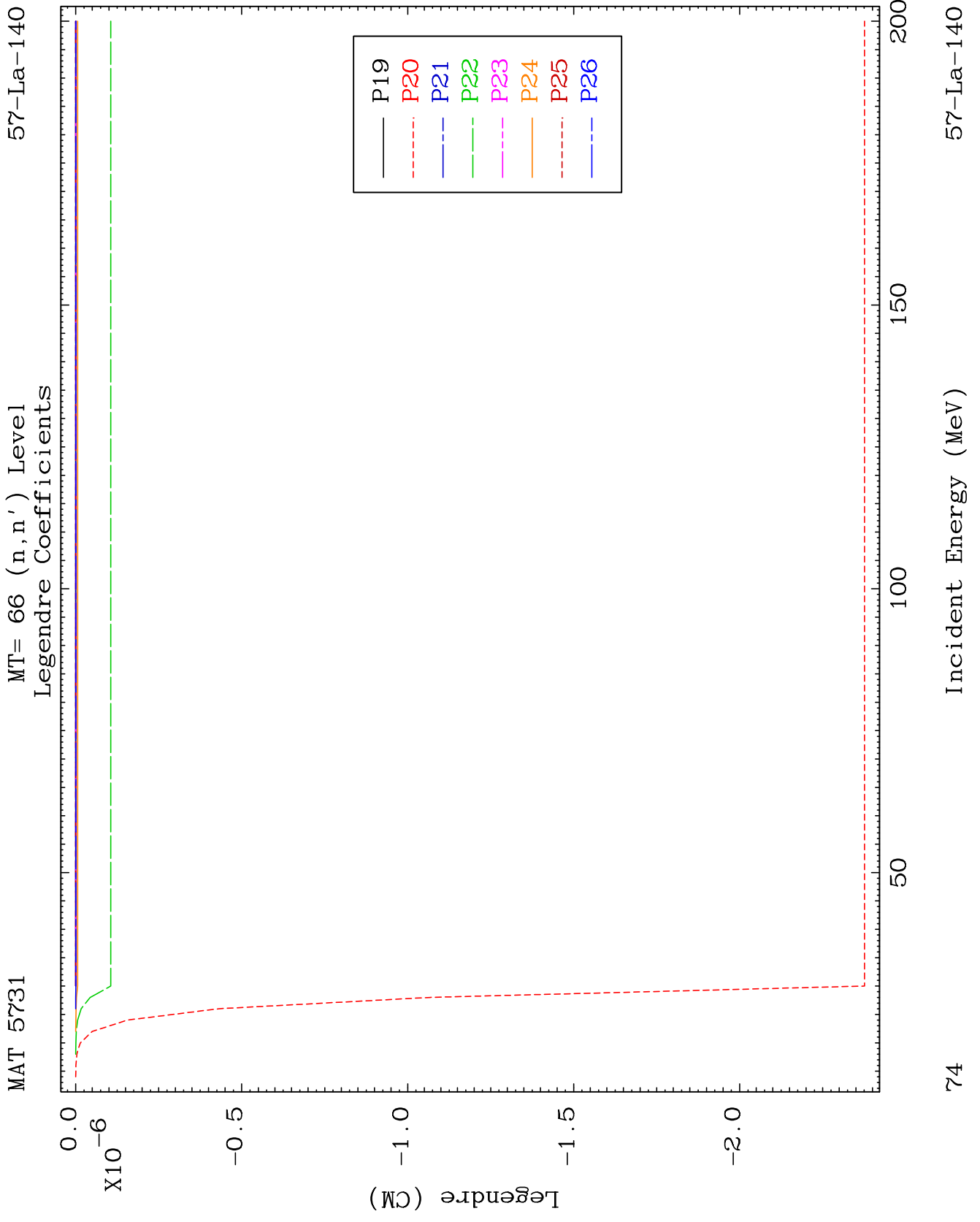


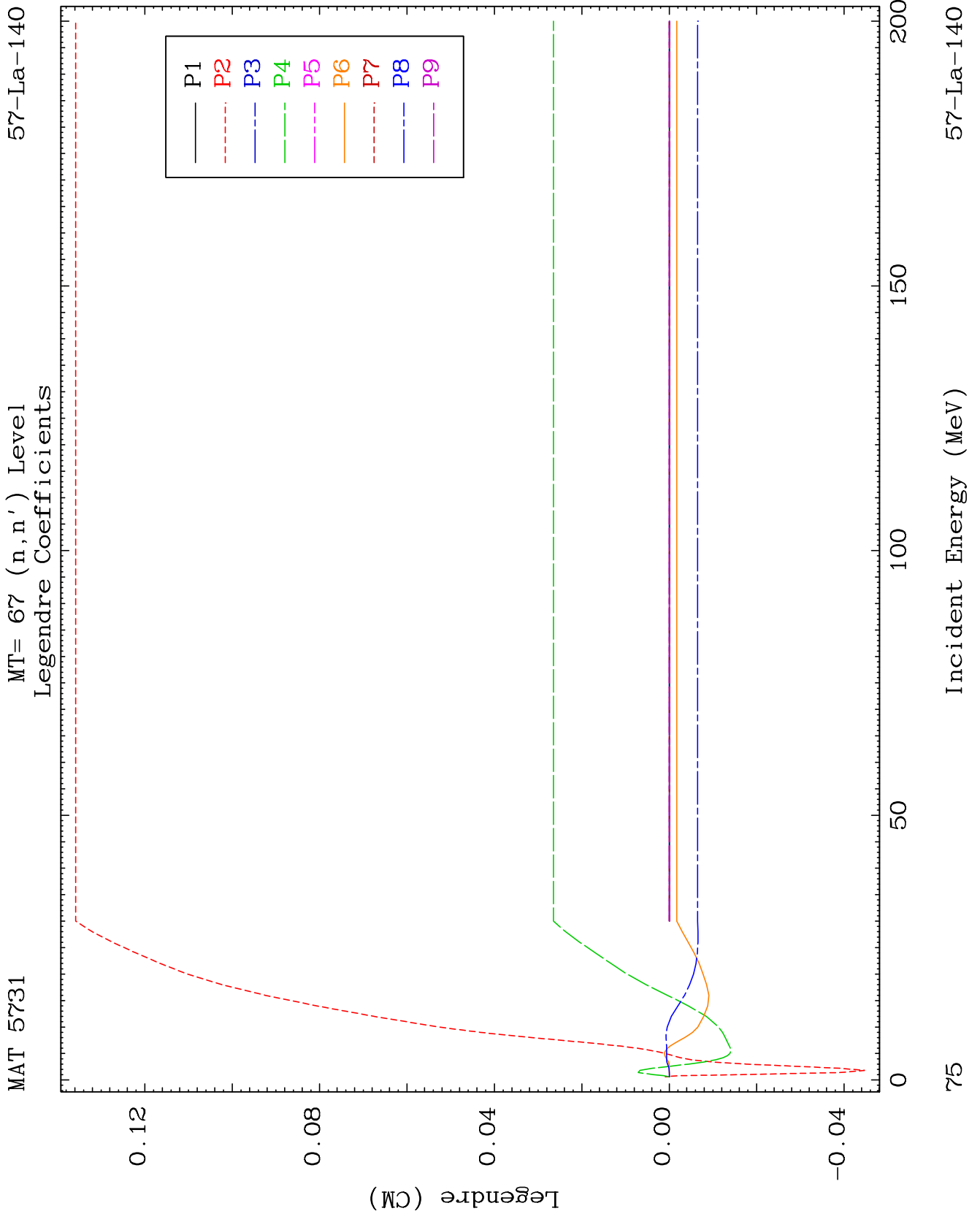
MAT 5731

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

57-La-140



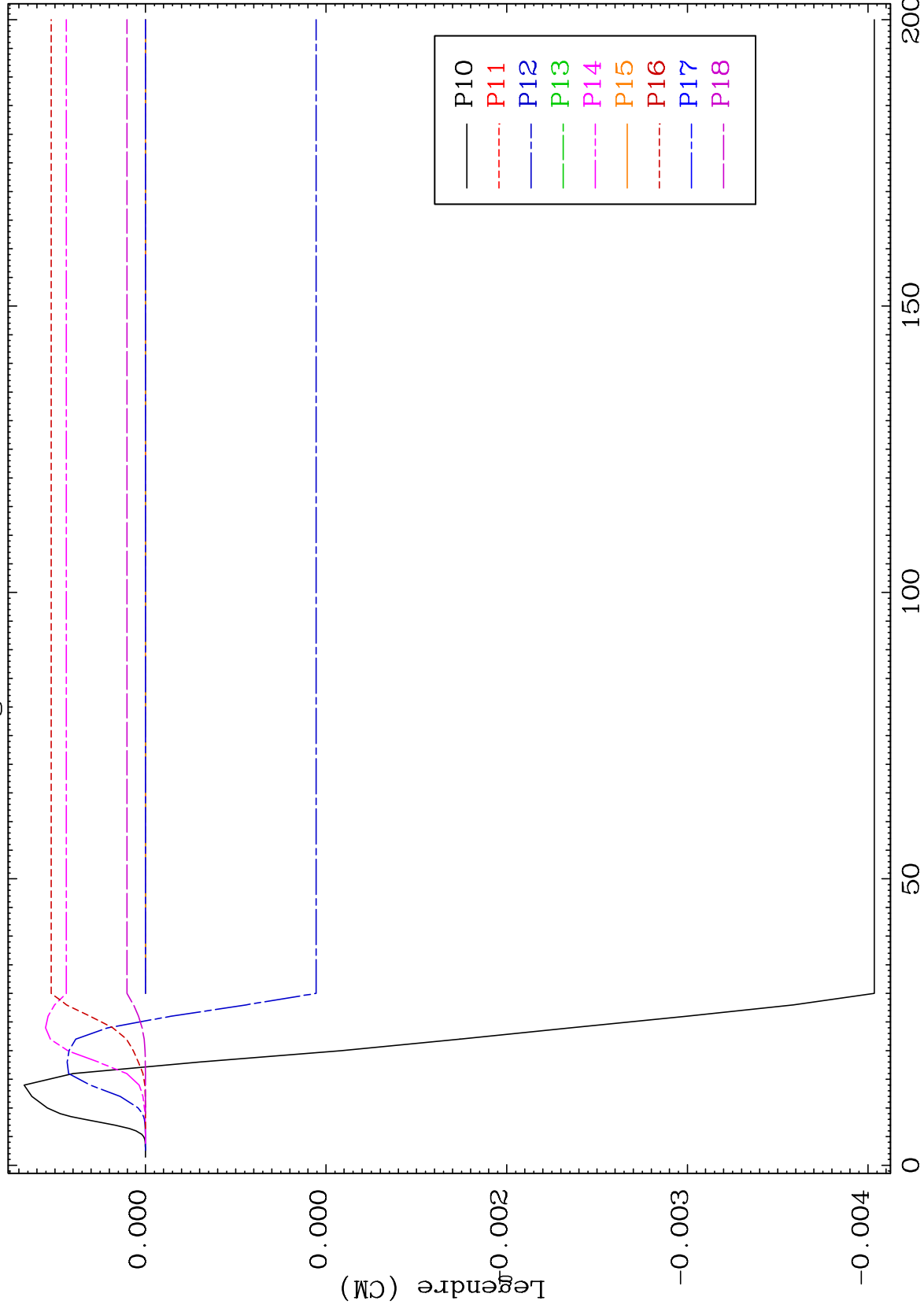




MAT 5731

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

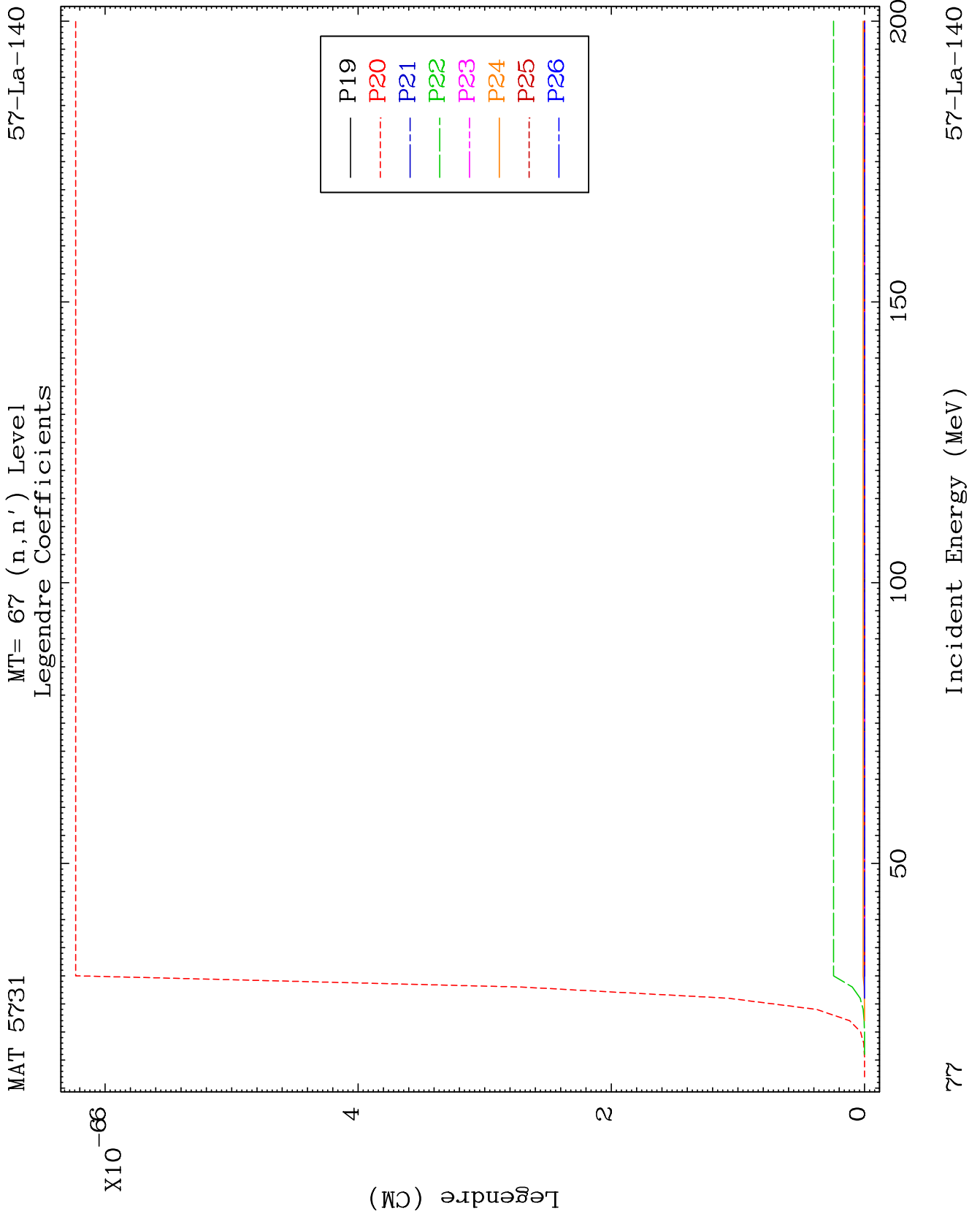
57-La-140

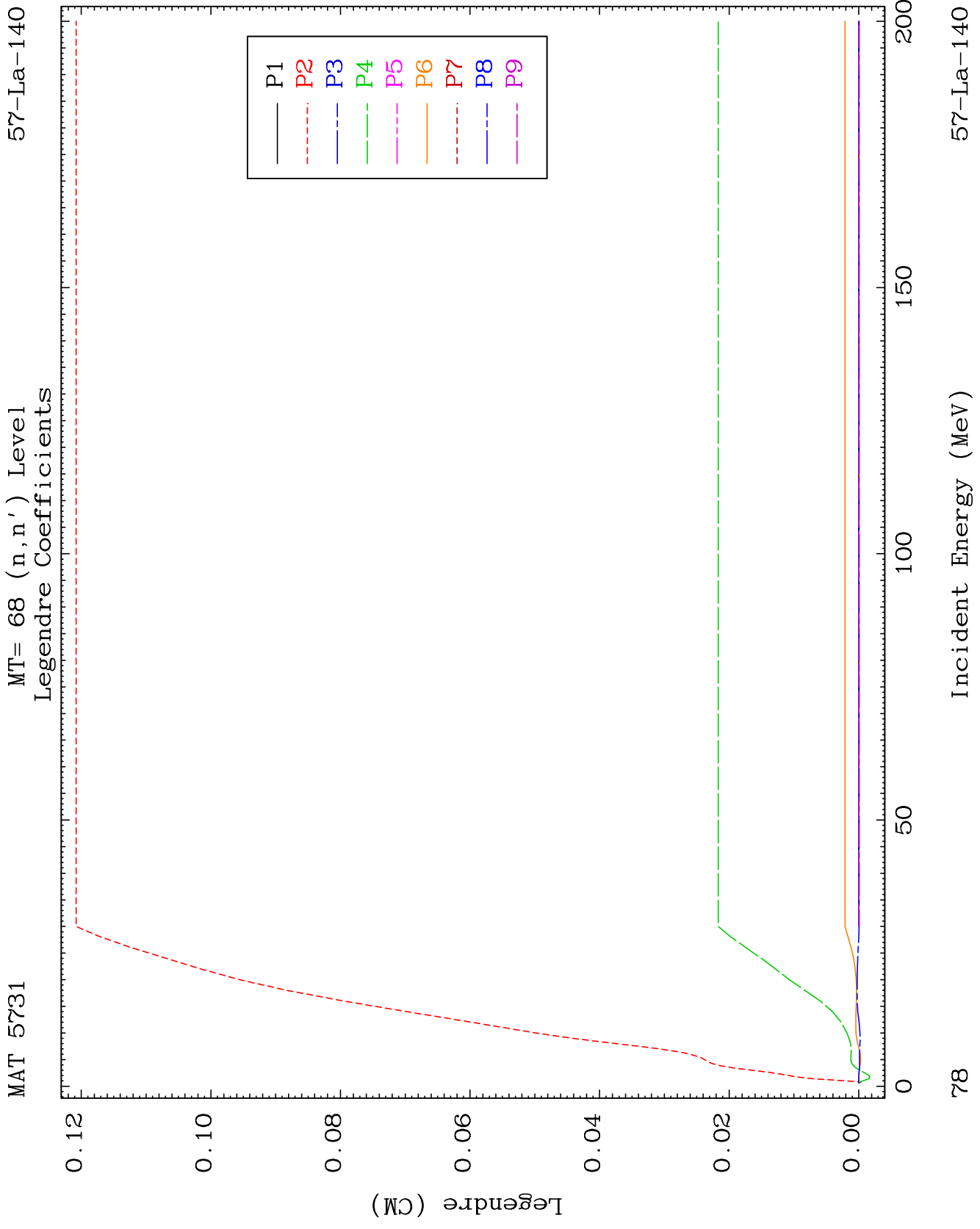


76

Incident Energy (MeV)

57-La-140

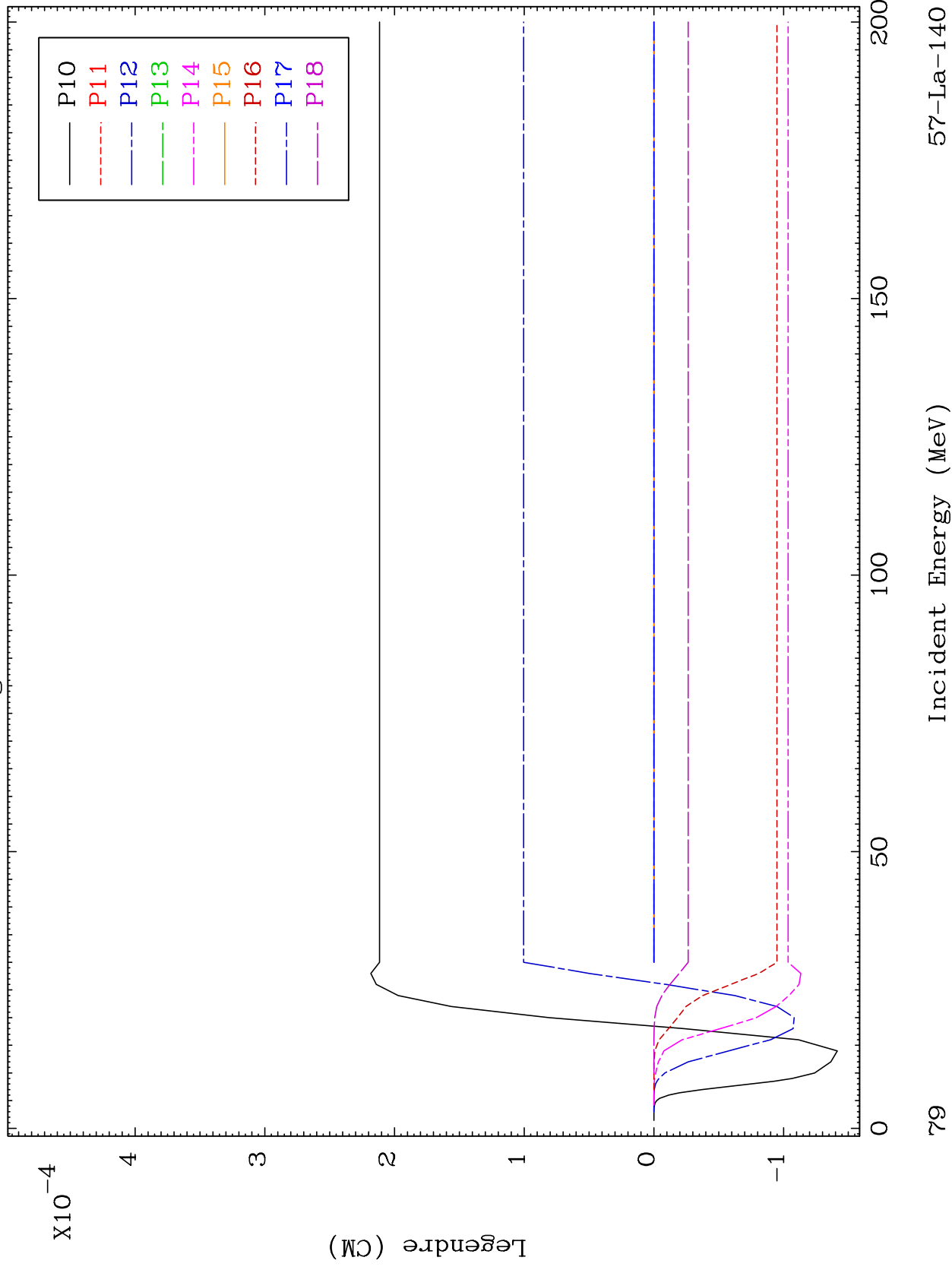




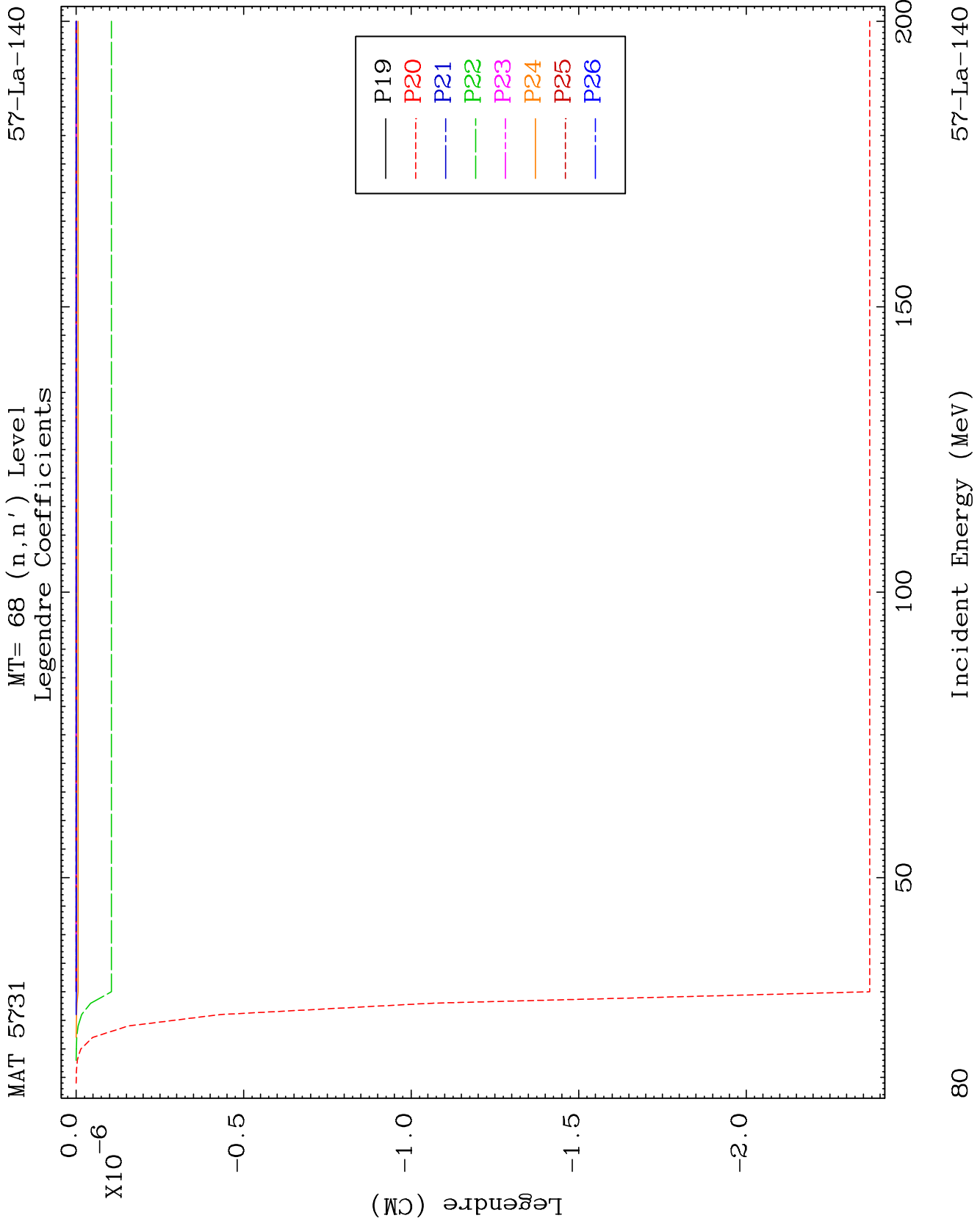
MAT 5731

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

57-La-140





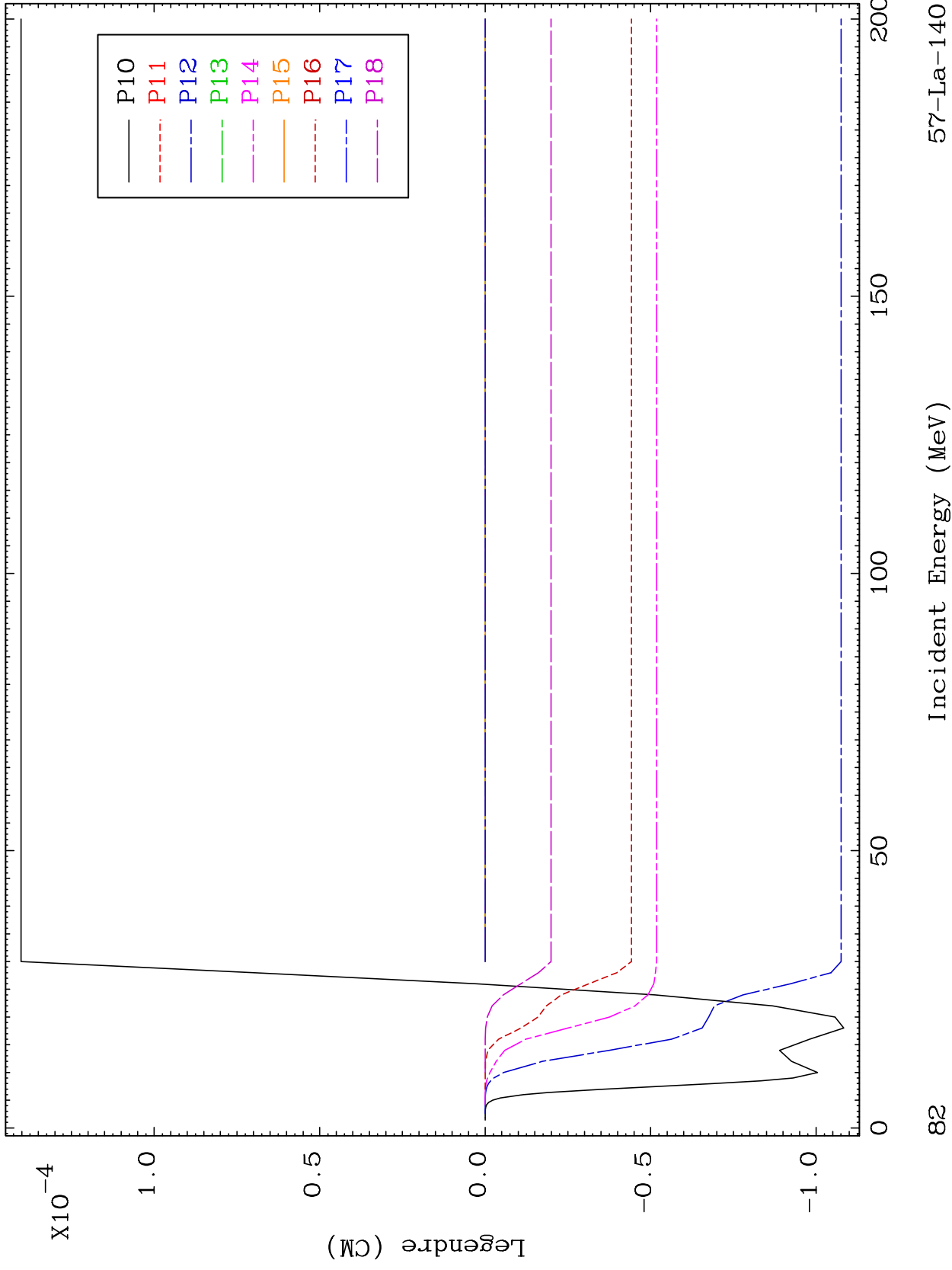




MAT 5731

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

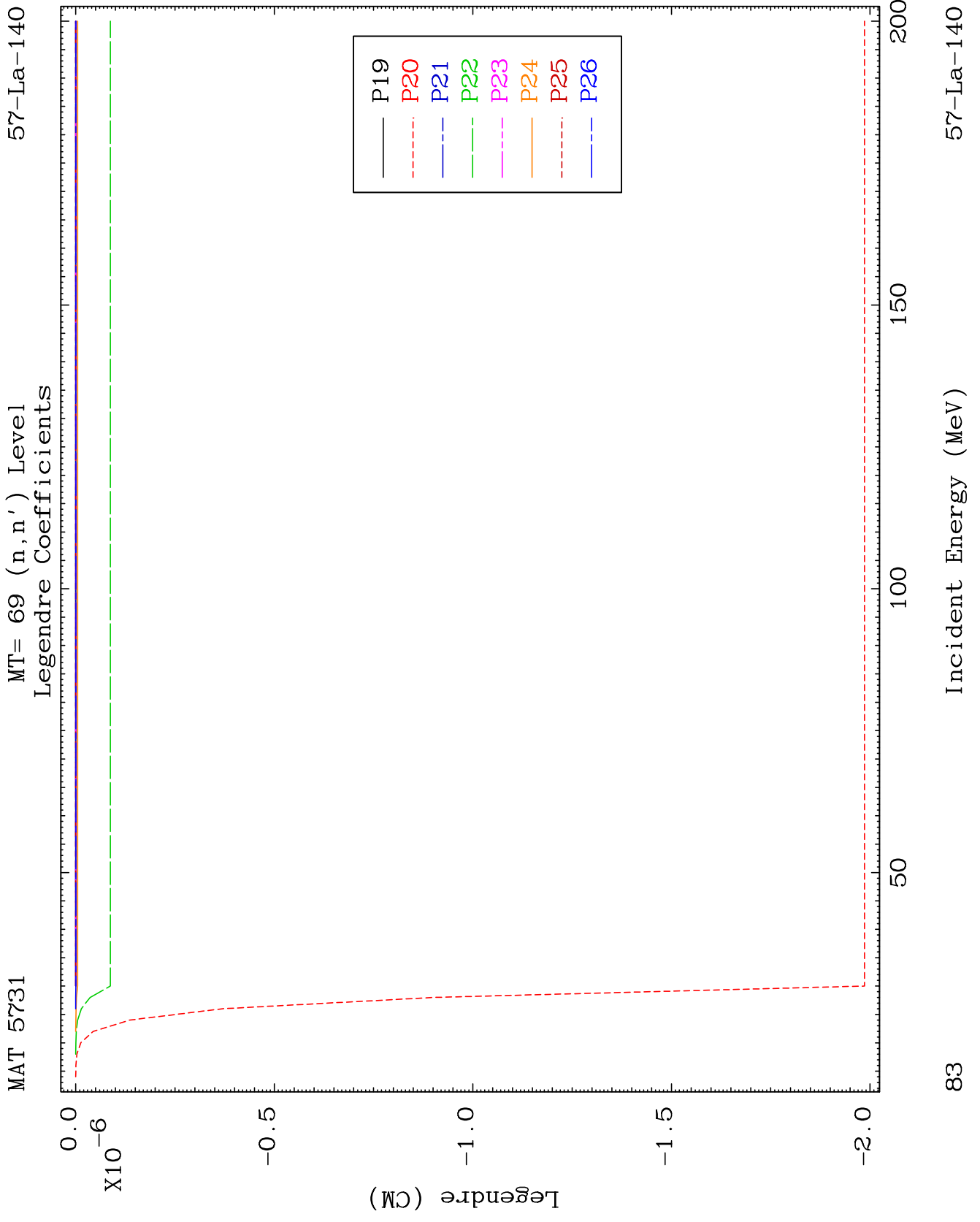
57-La-140



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Incident Energy (MeV)

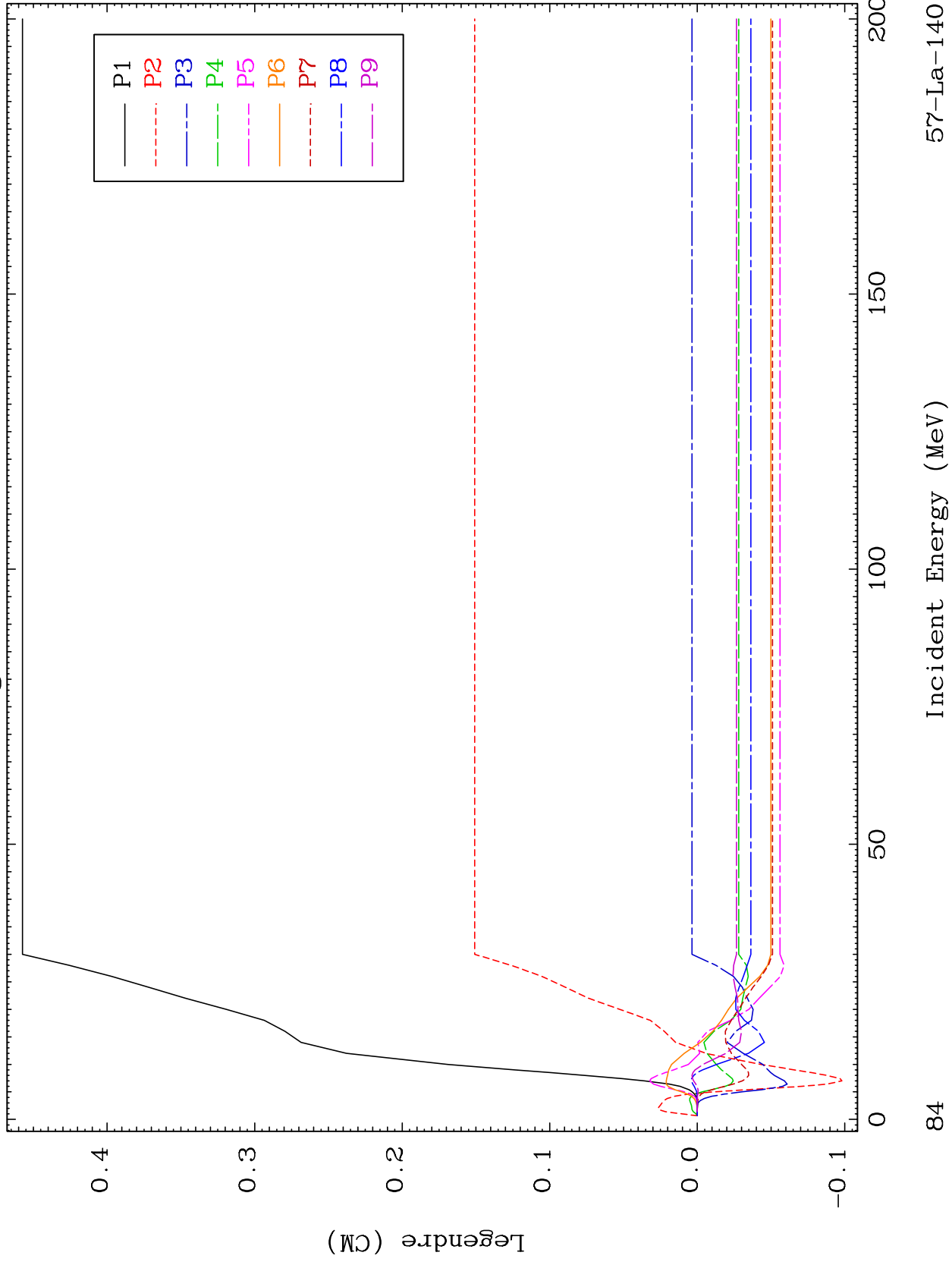
57-La-140



MAT 5731

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

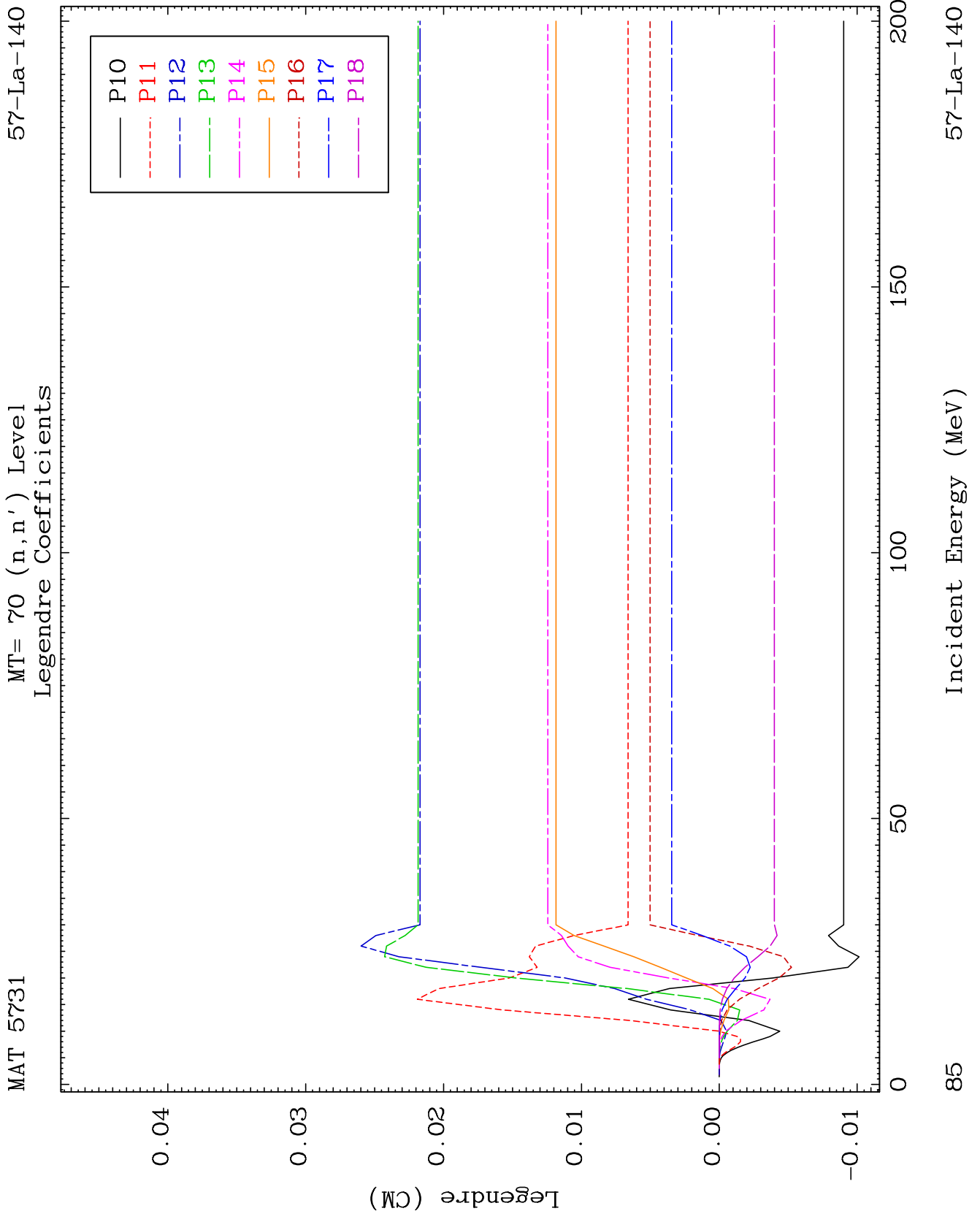
57-La-140



57-La-140

Incident Energy (MeV)

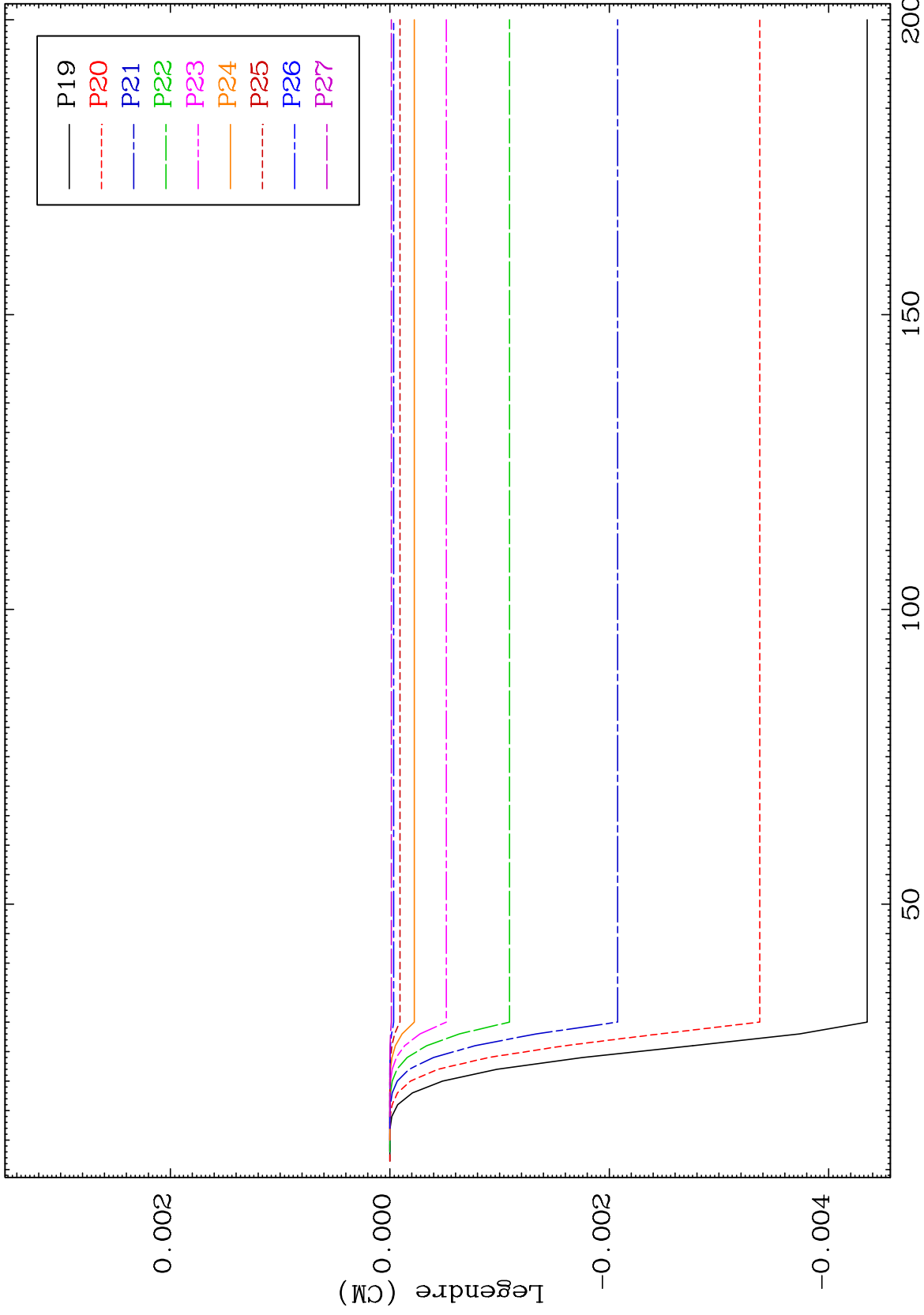
84



MAT 5731

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

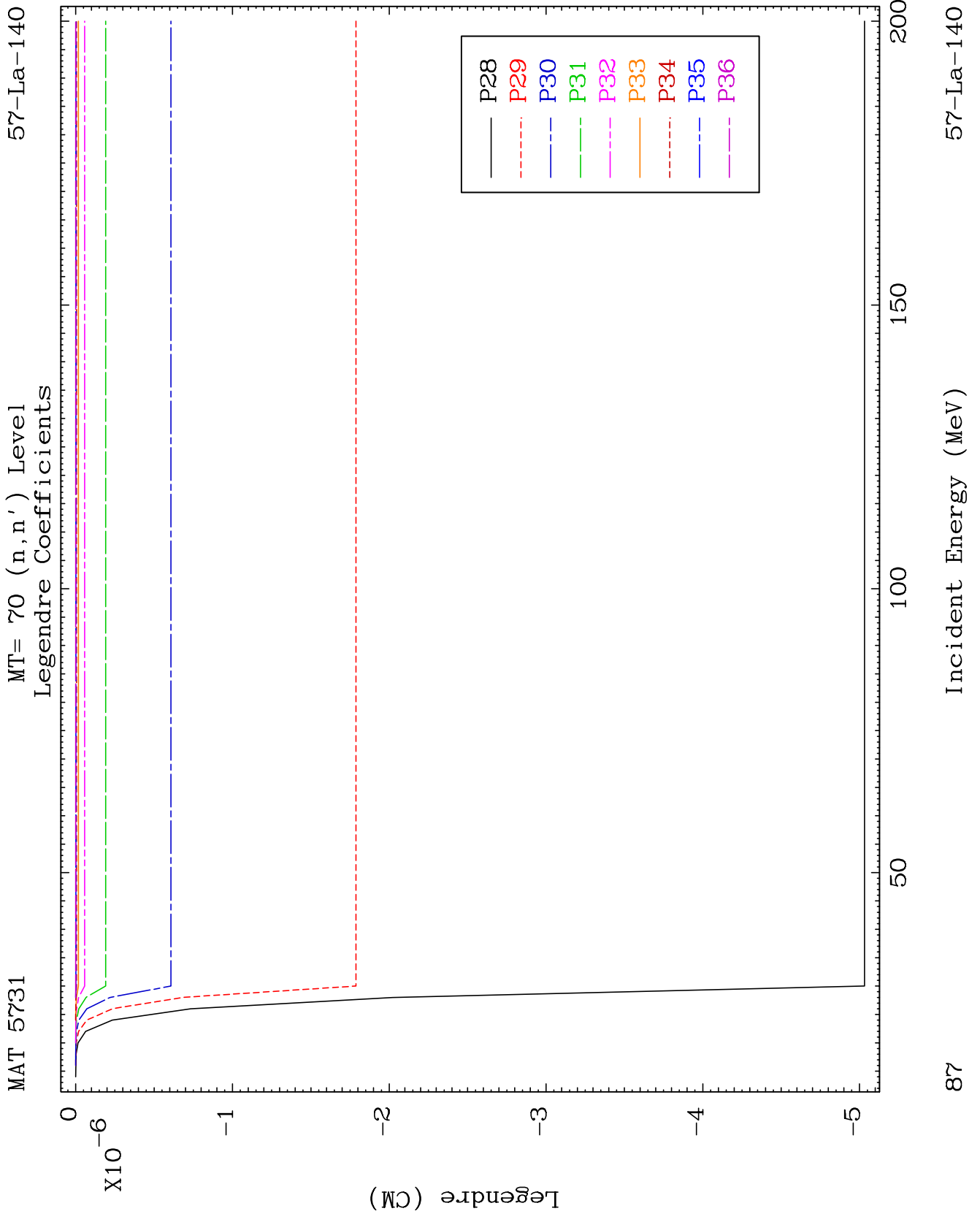
57-La-140



86

Incident Energy (MeV)

57-La-140

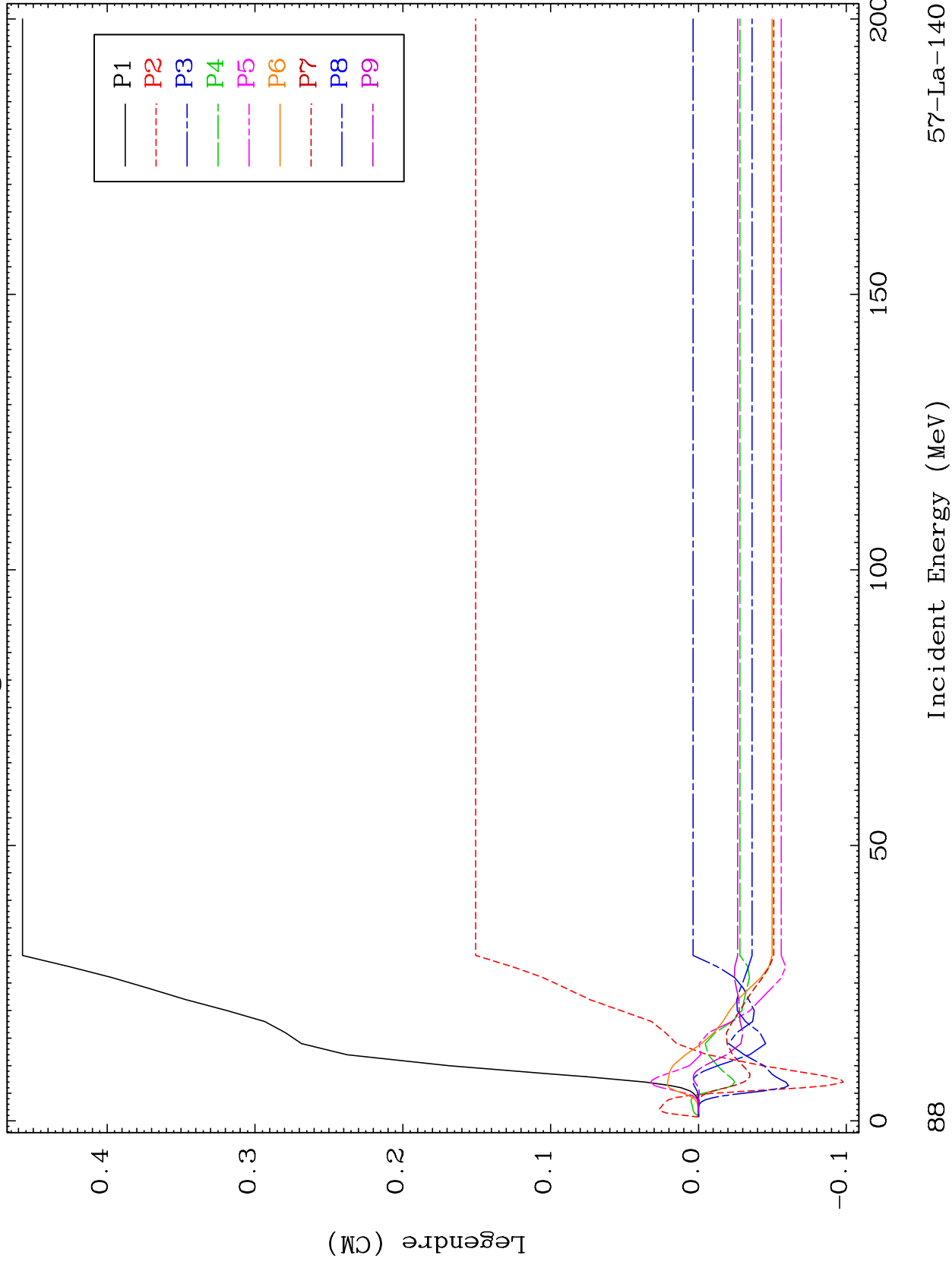




MAT 5731

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

57-La-140



57-La-140

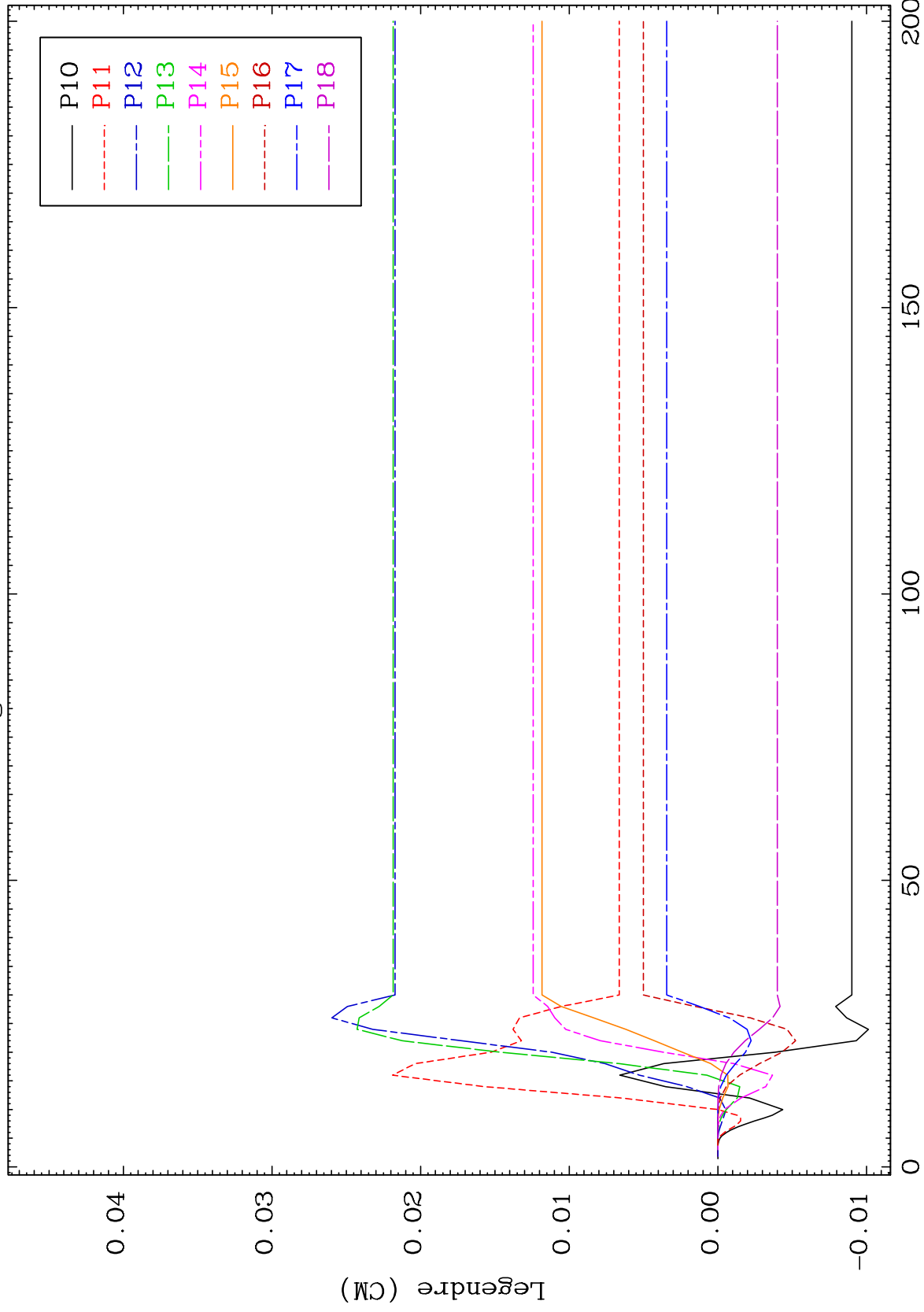
Incident Energy (MeV)

88

MAT 5731

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

57-La-140



89

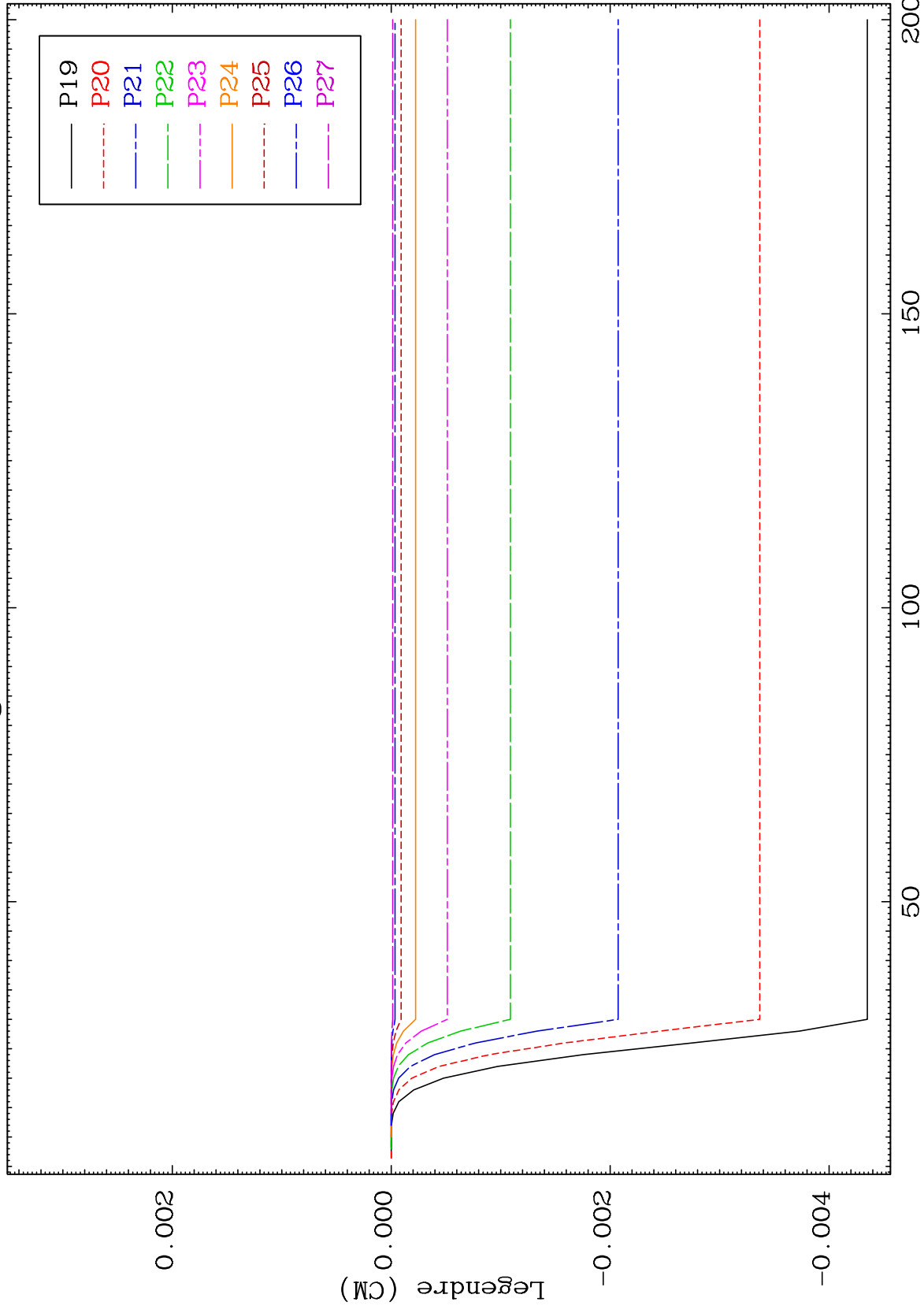
Incident Energy (MeV)

57-La-140

MAT 5731

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

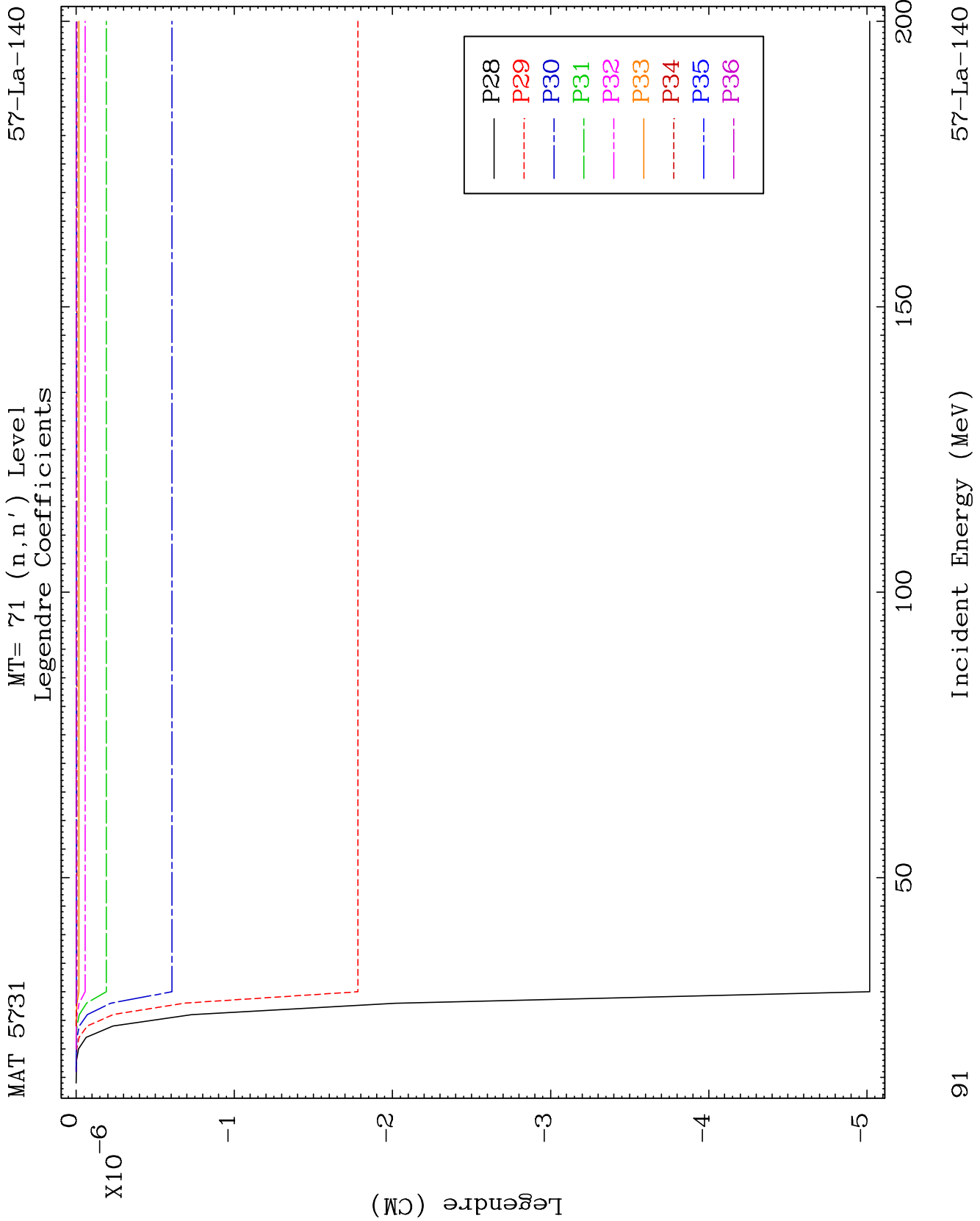
57-La-140



90

Incident Energy (MeV)

57-La-140

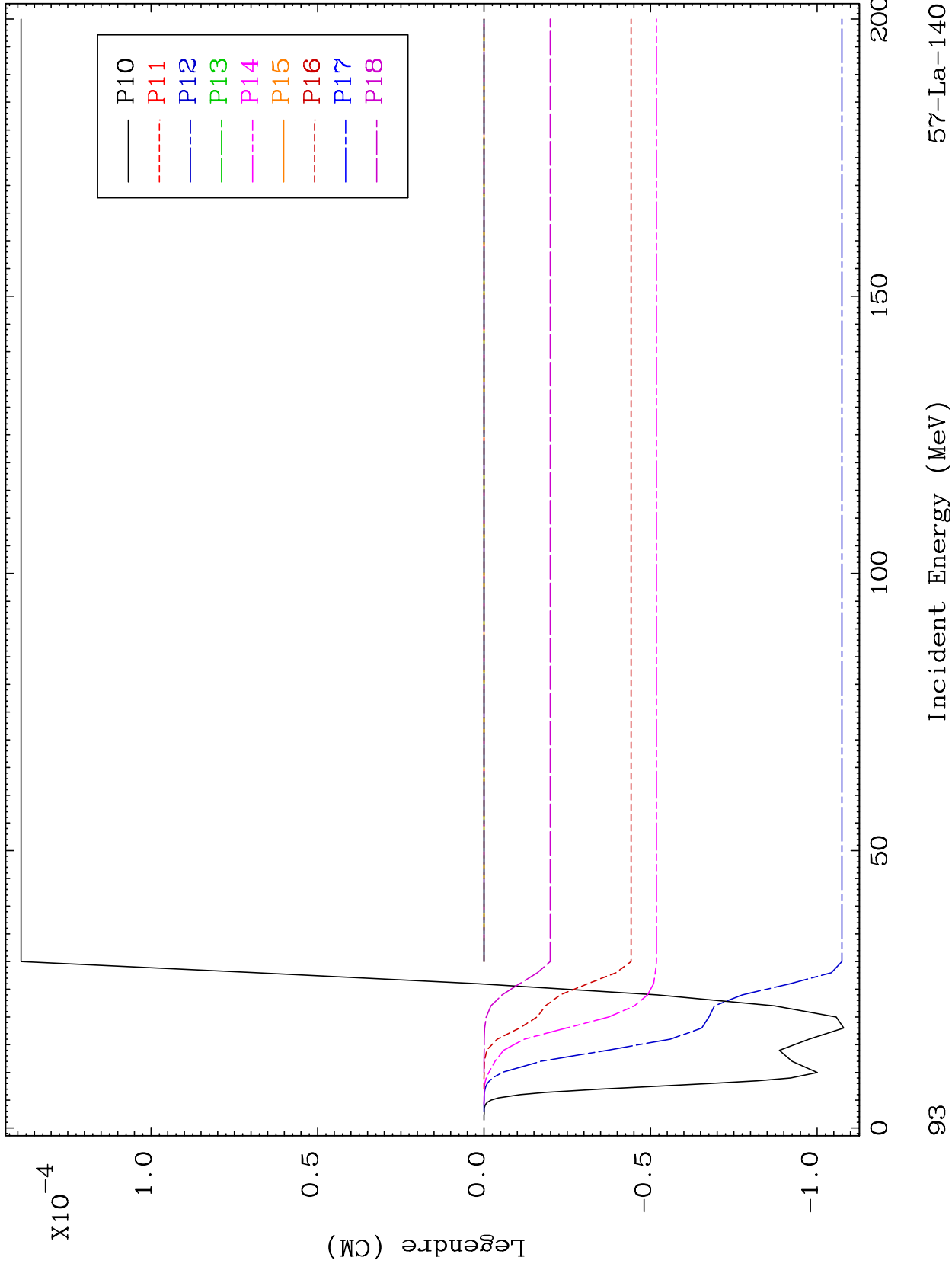


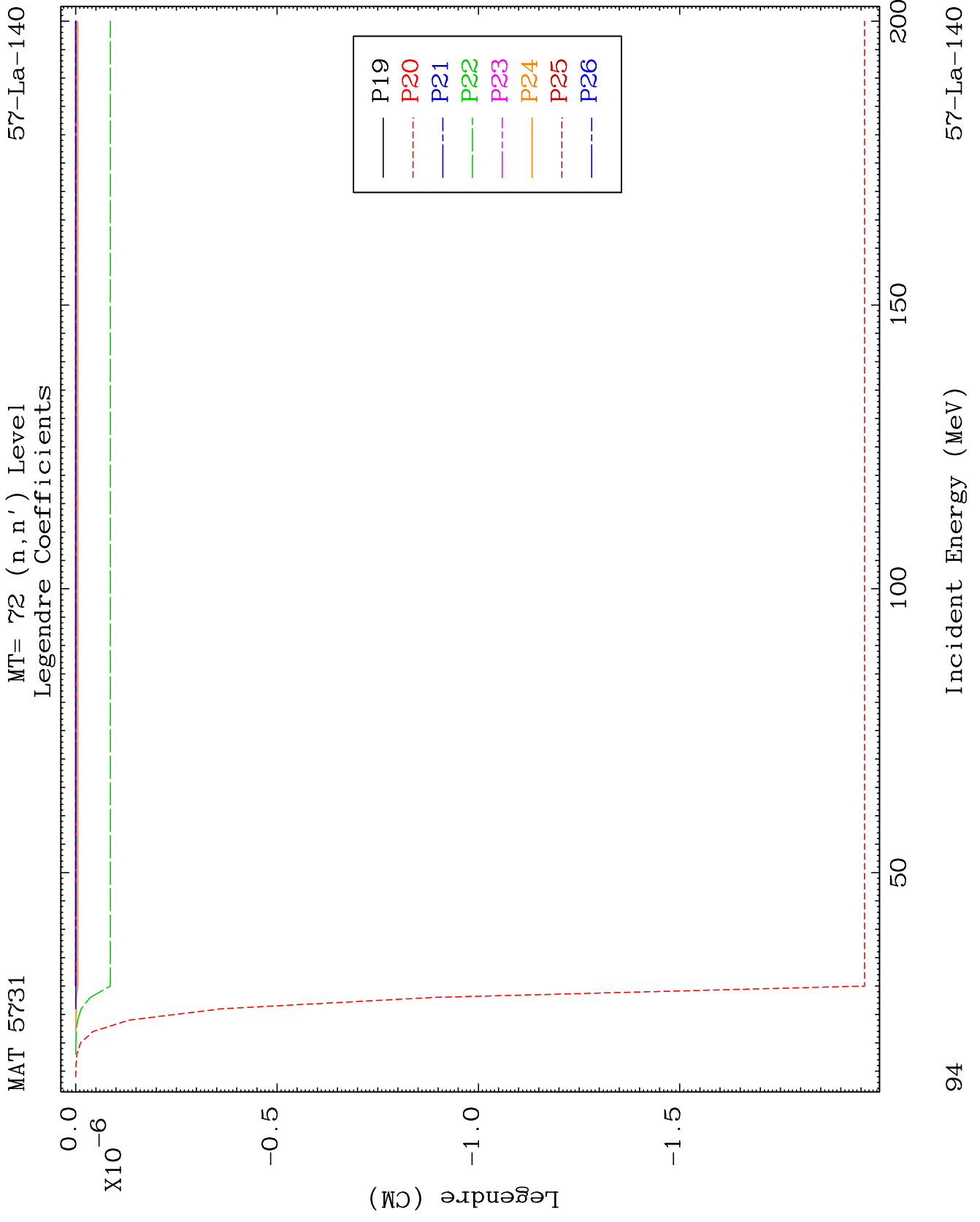


MAT 5731

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

57-La-140

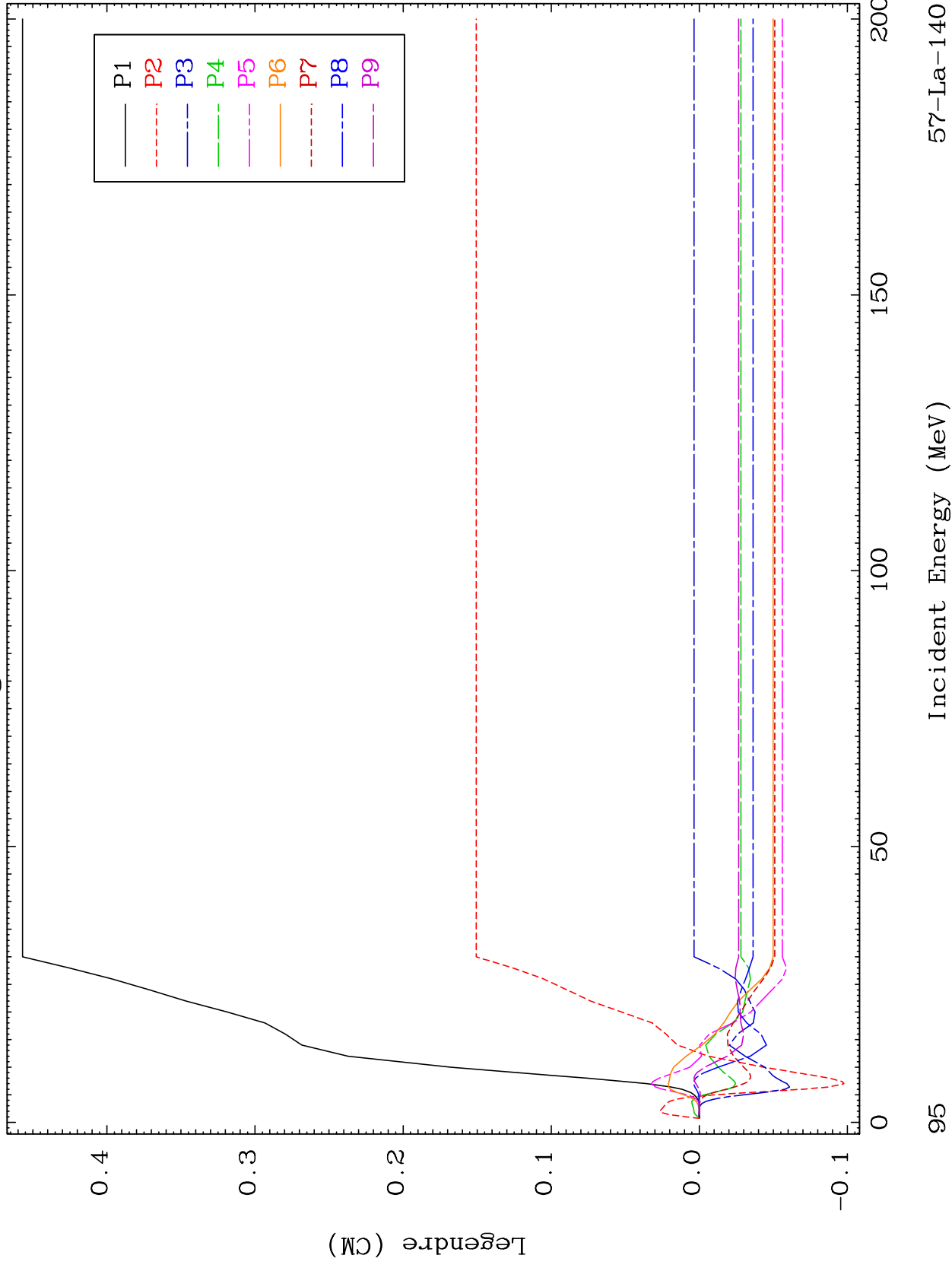




MAT 5731

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

57-La-140



57-La-140

Incident Energy (MeV)

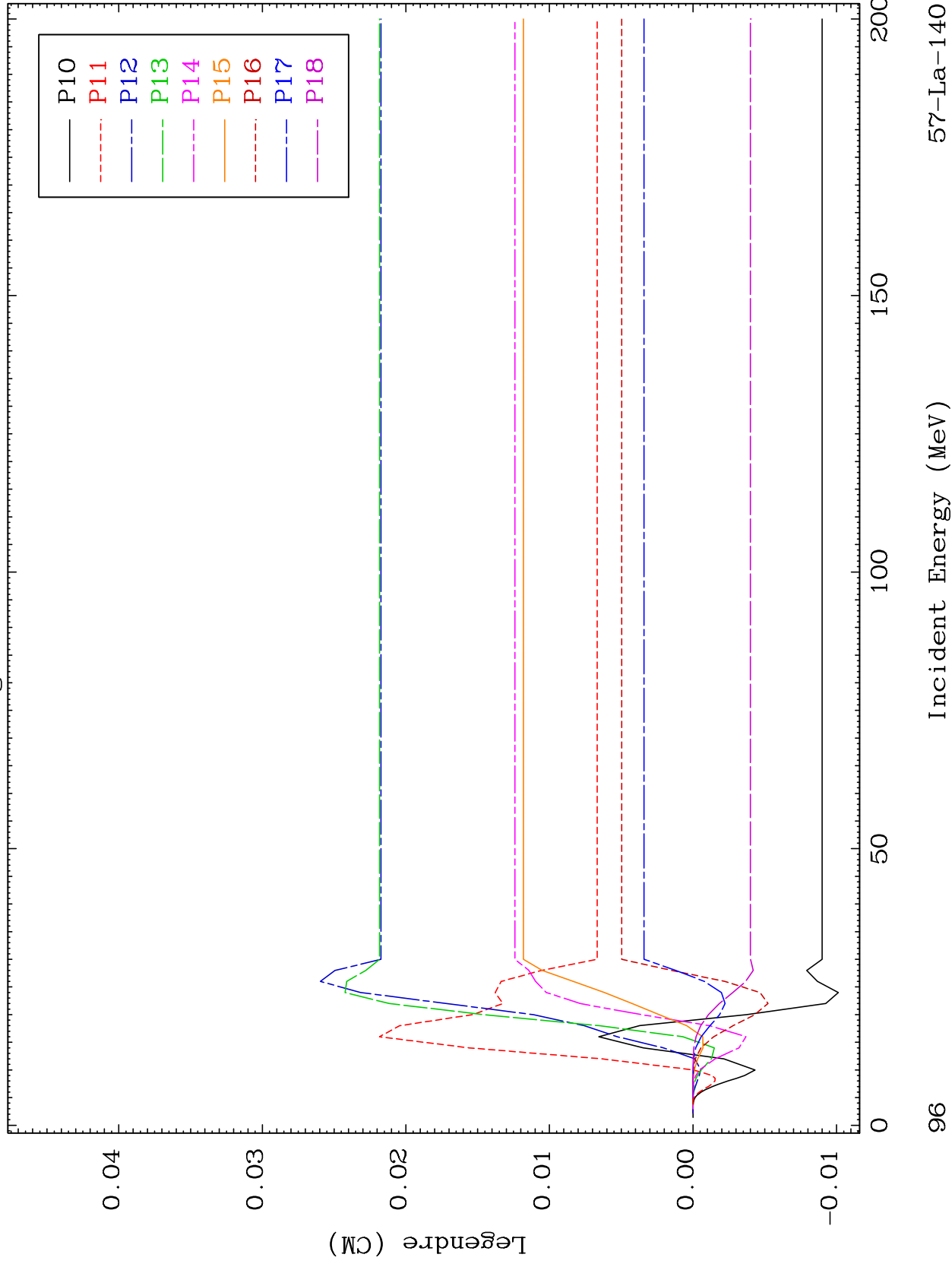
95



MAT 5731

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

57-La-140



57-La-140

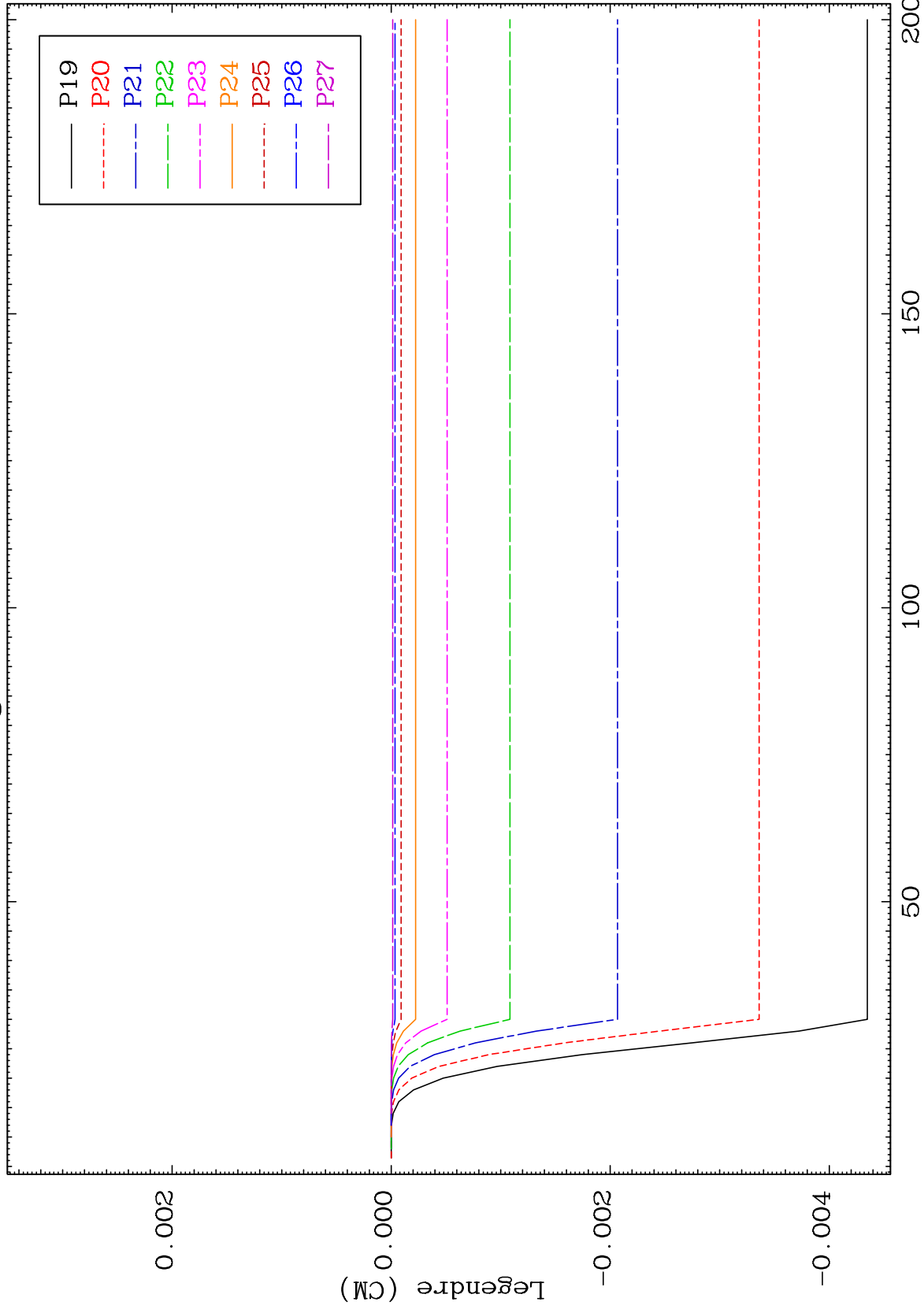
Incident Energy (MeV)

96

MAT 5731

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

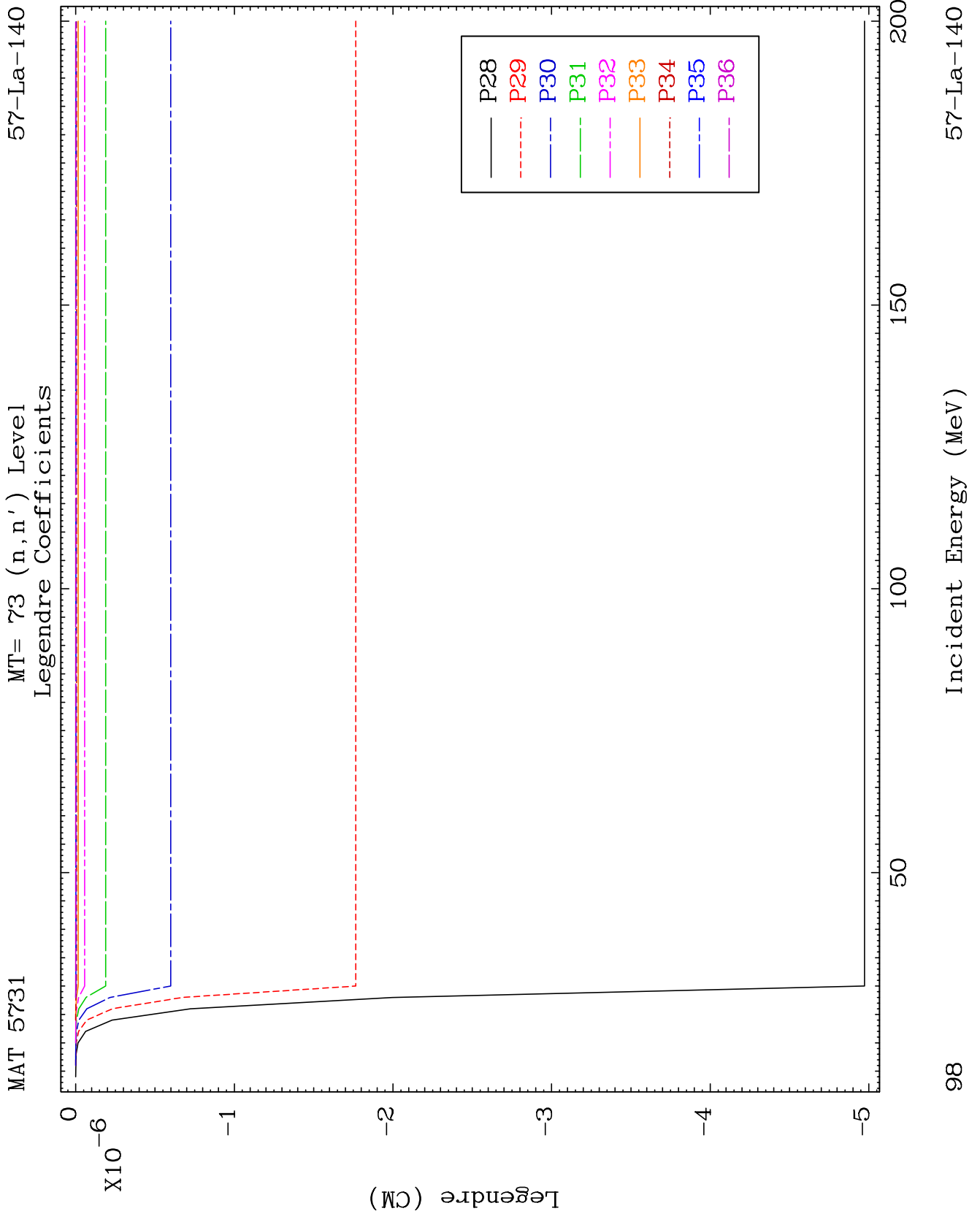
57-La-140



97

Incident Energy (MeV)

57-La-140

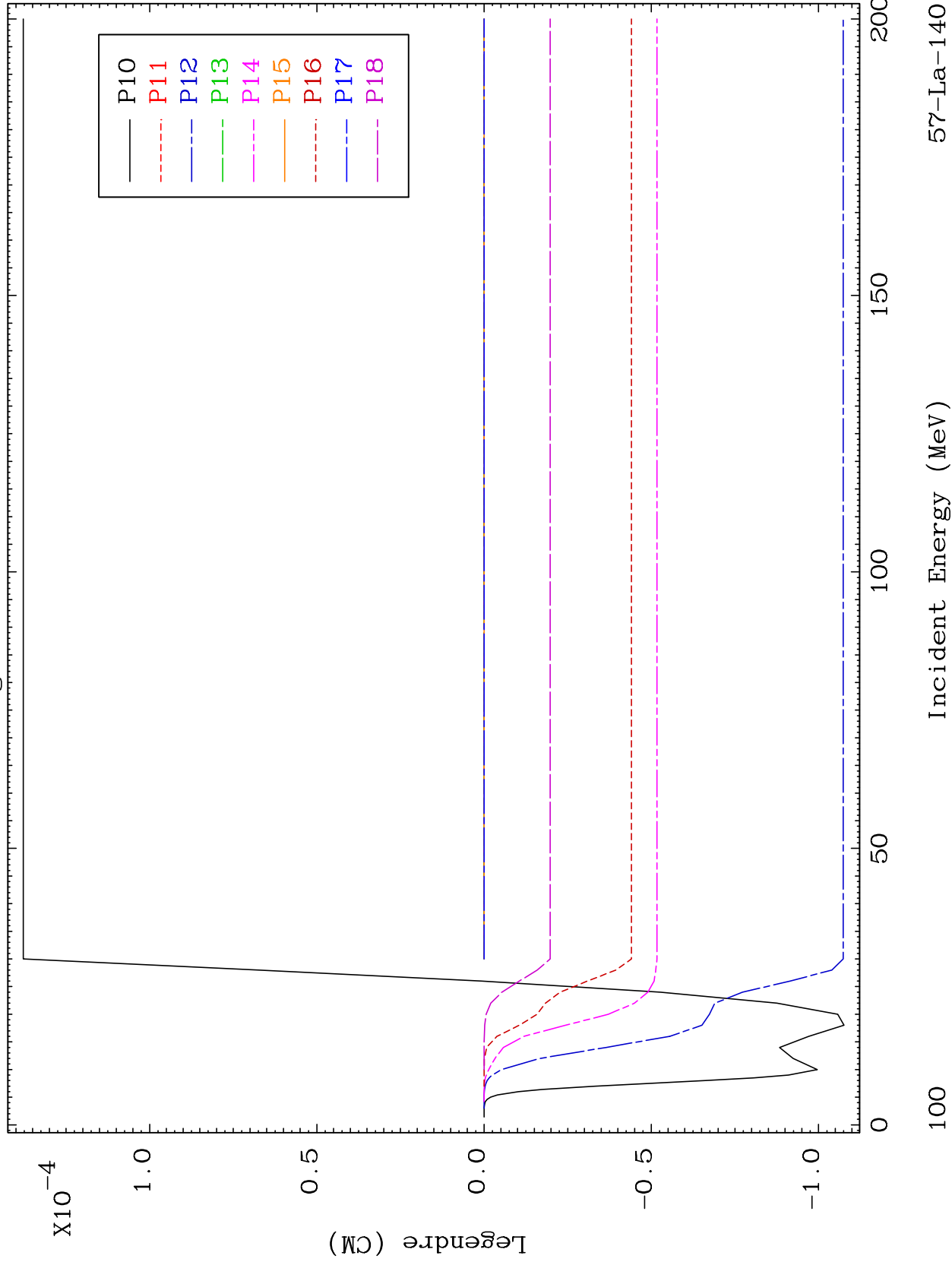


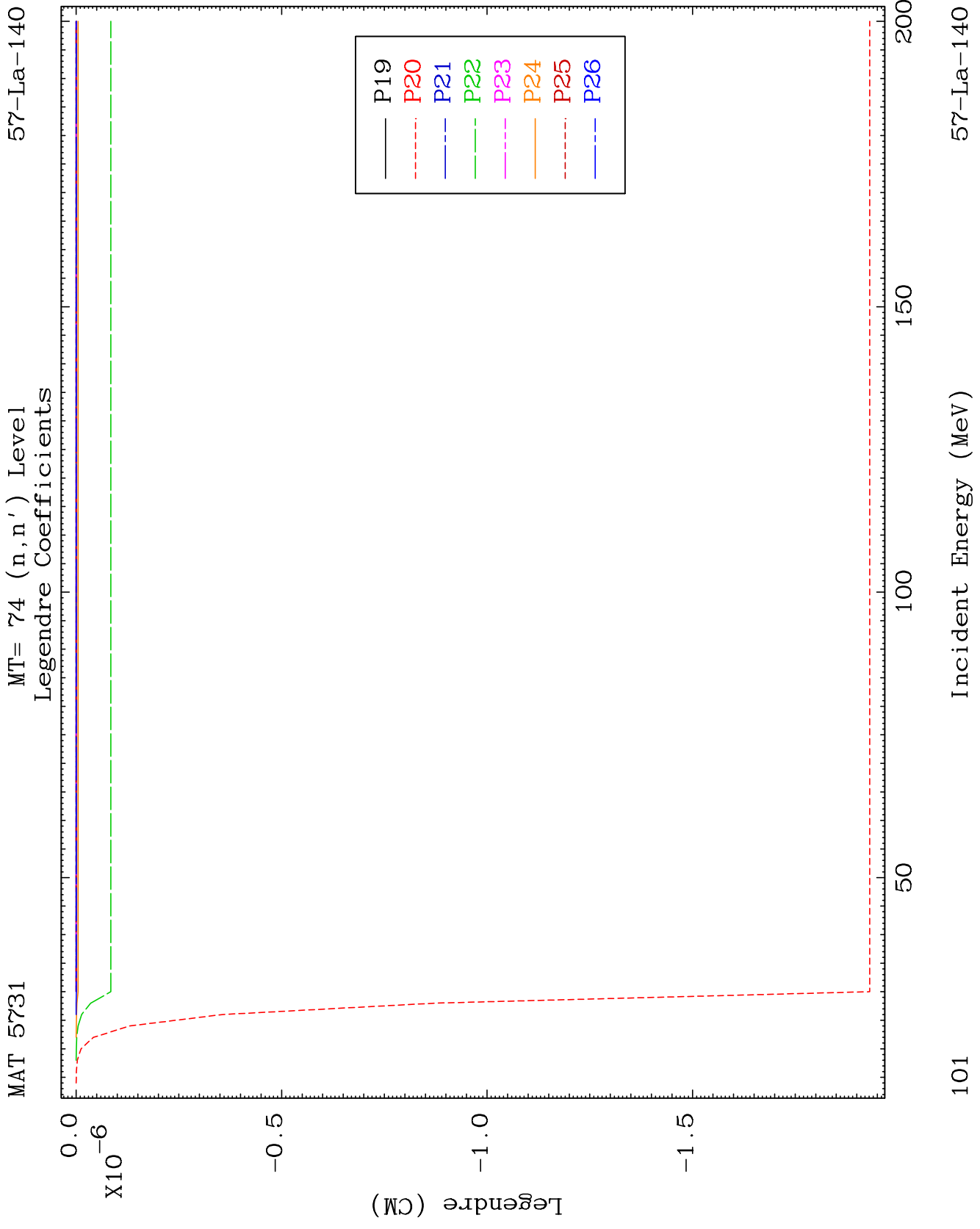


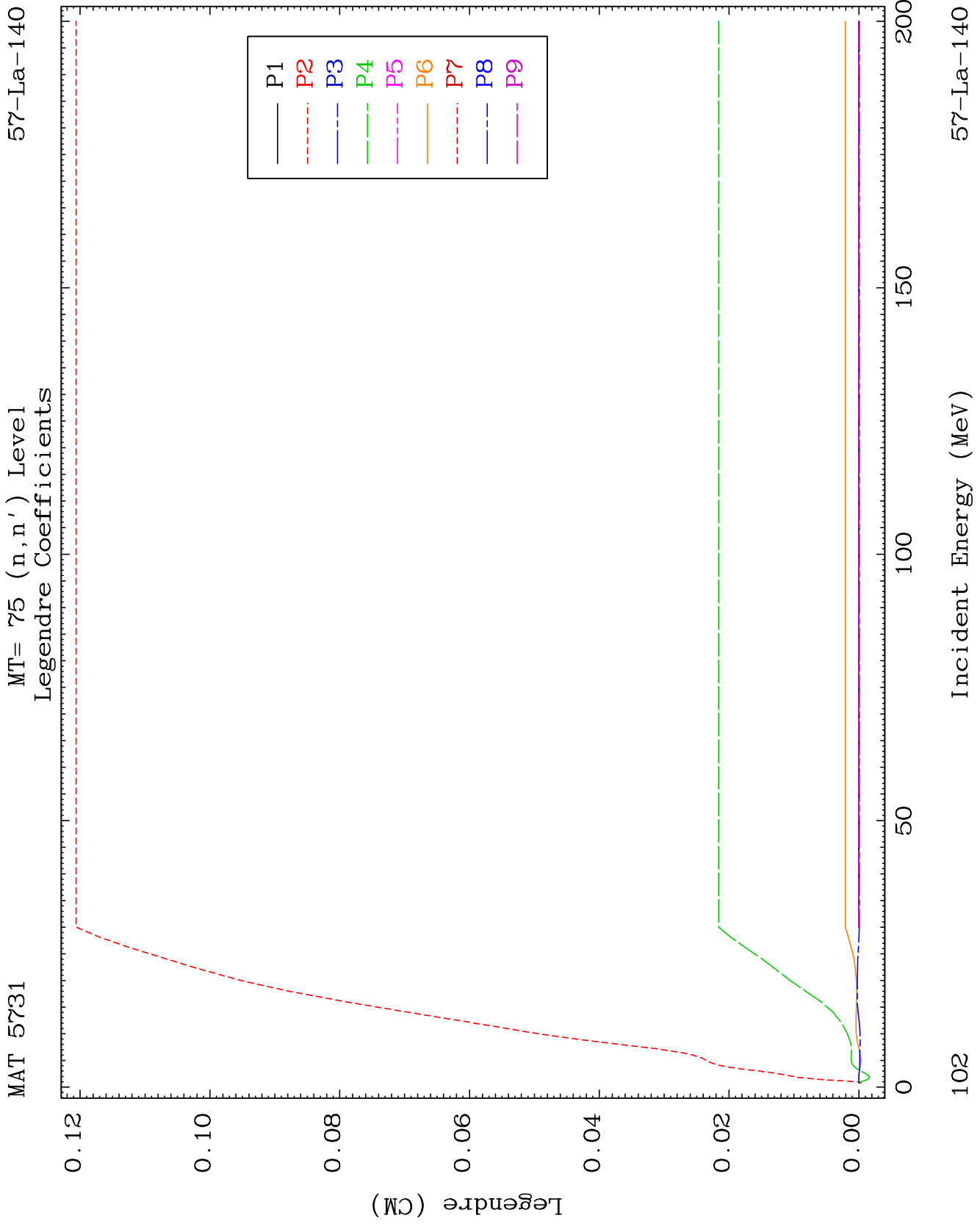
MAT 5731

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

57-La-140



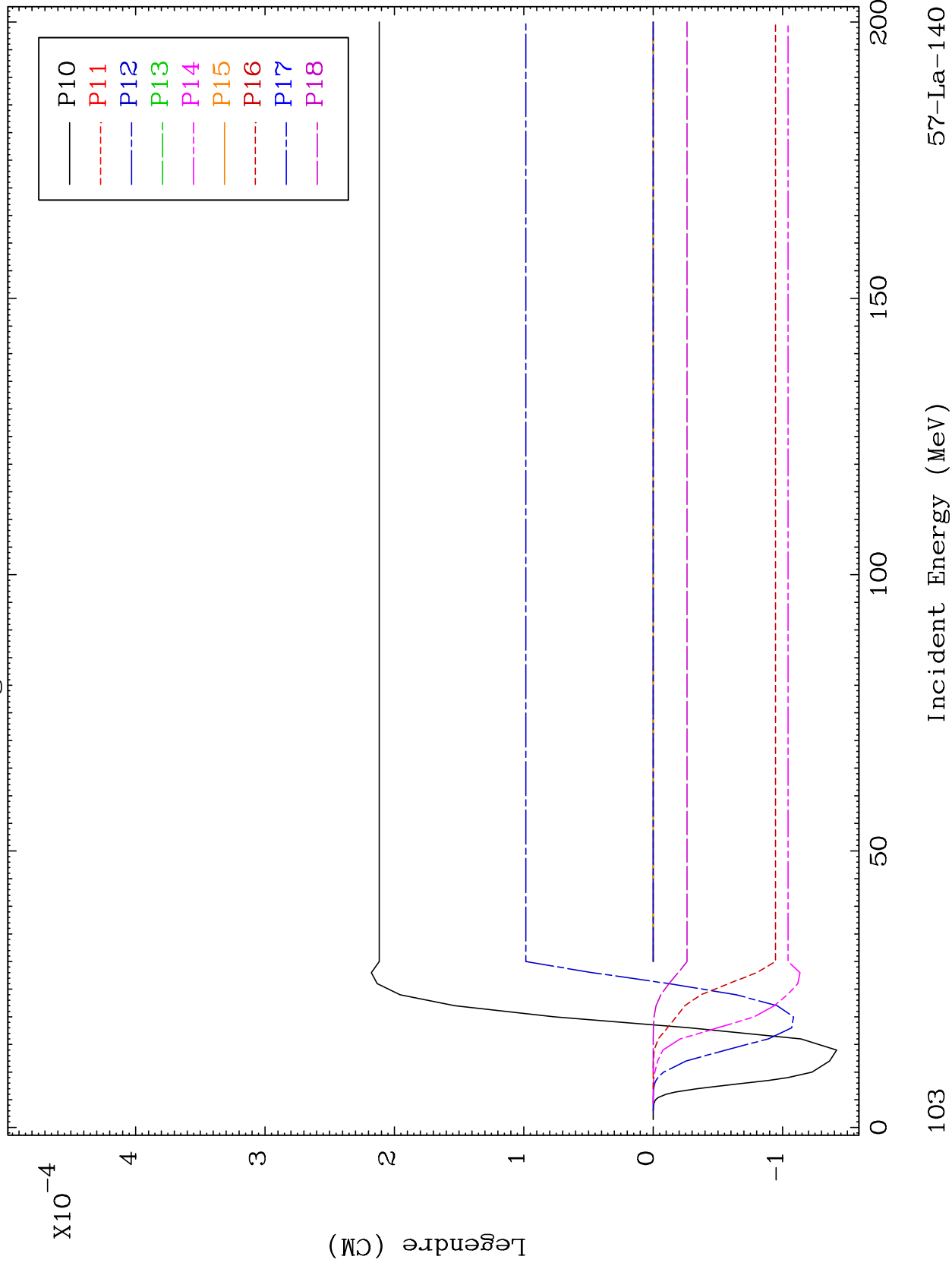




MAT 5731

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

57-La-140

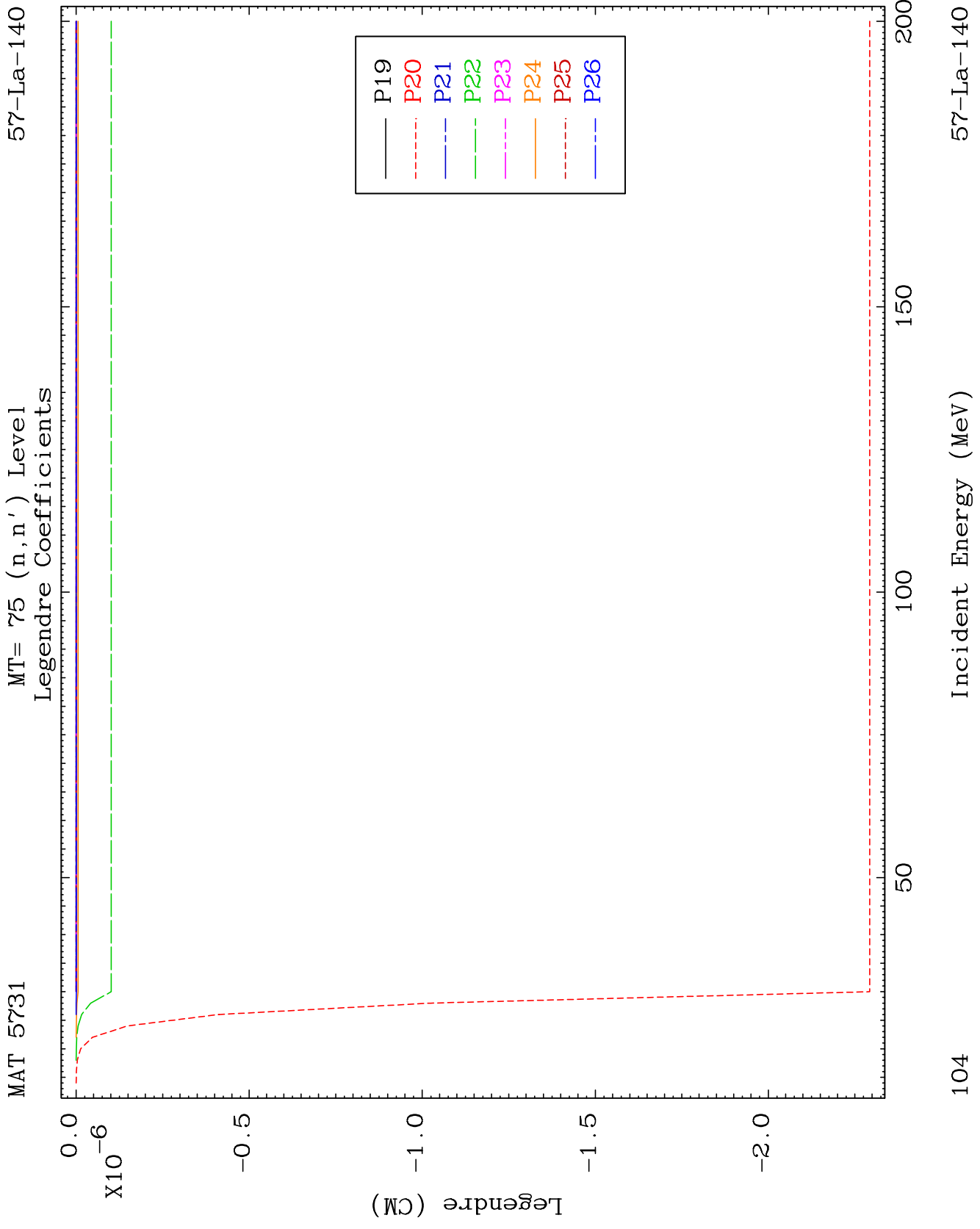


57-La-140

Incident Energy (MeV)

103



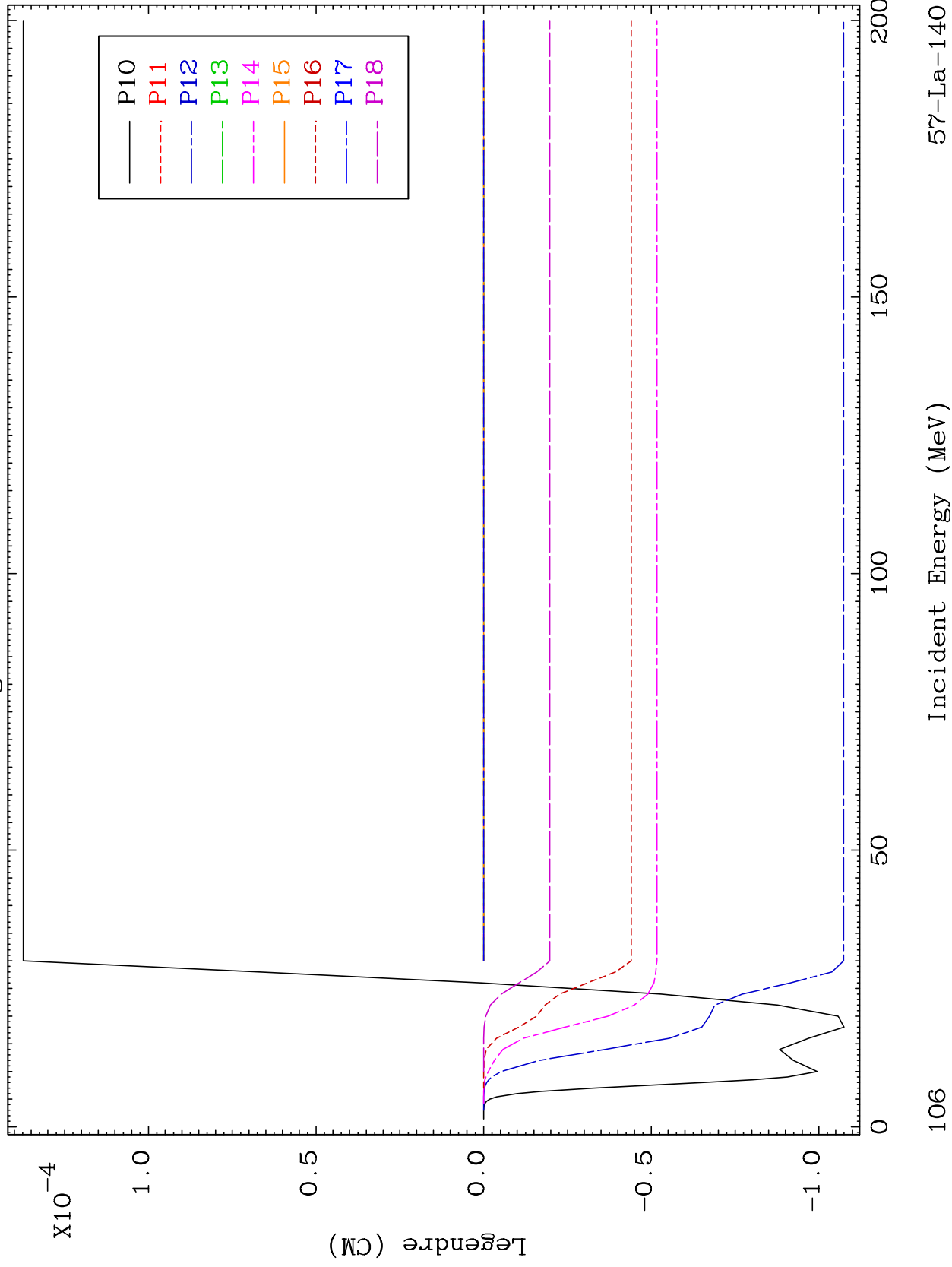


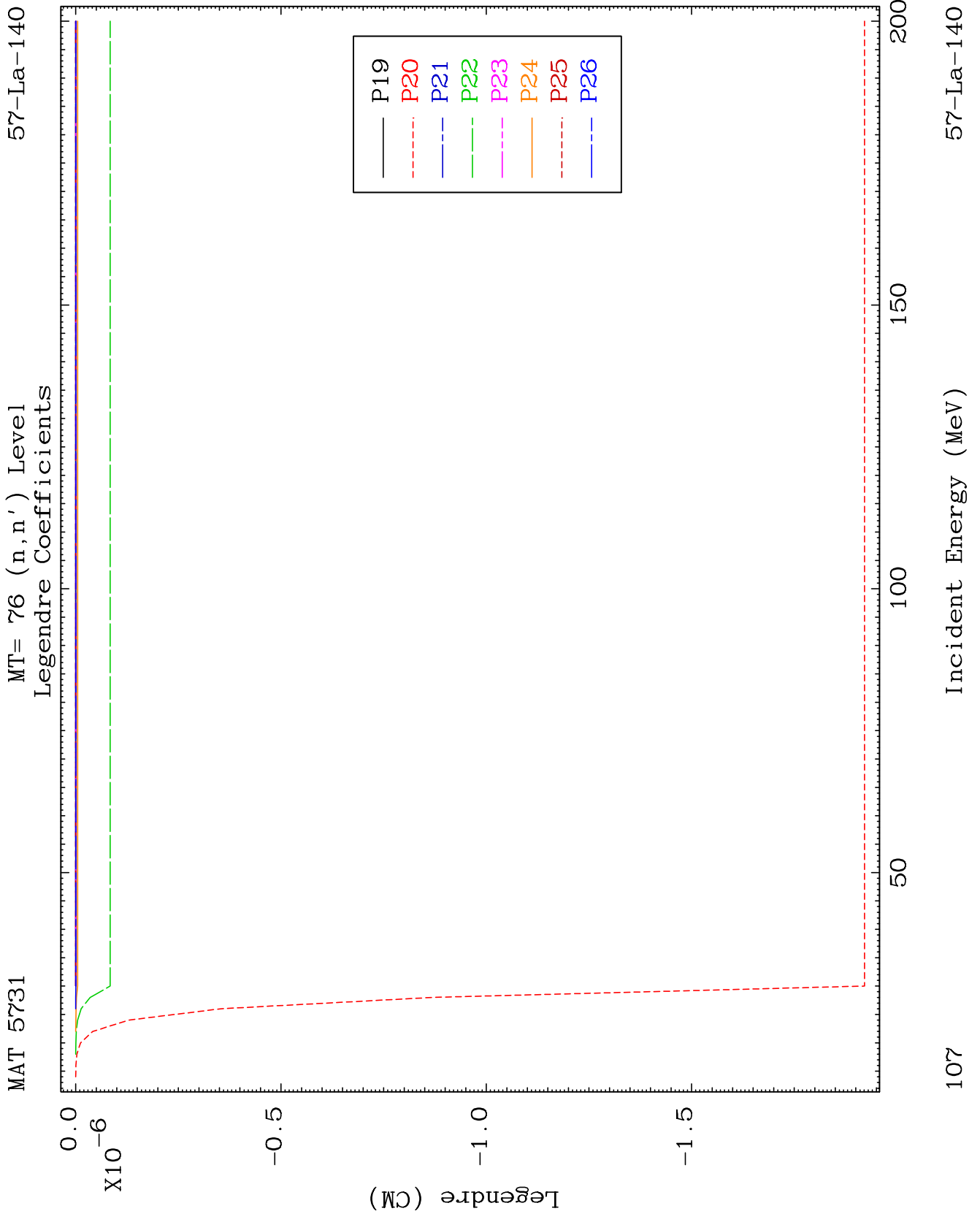


MAT 5731

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

57-La-140



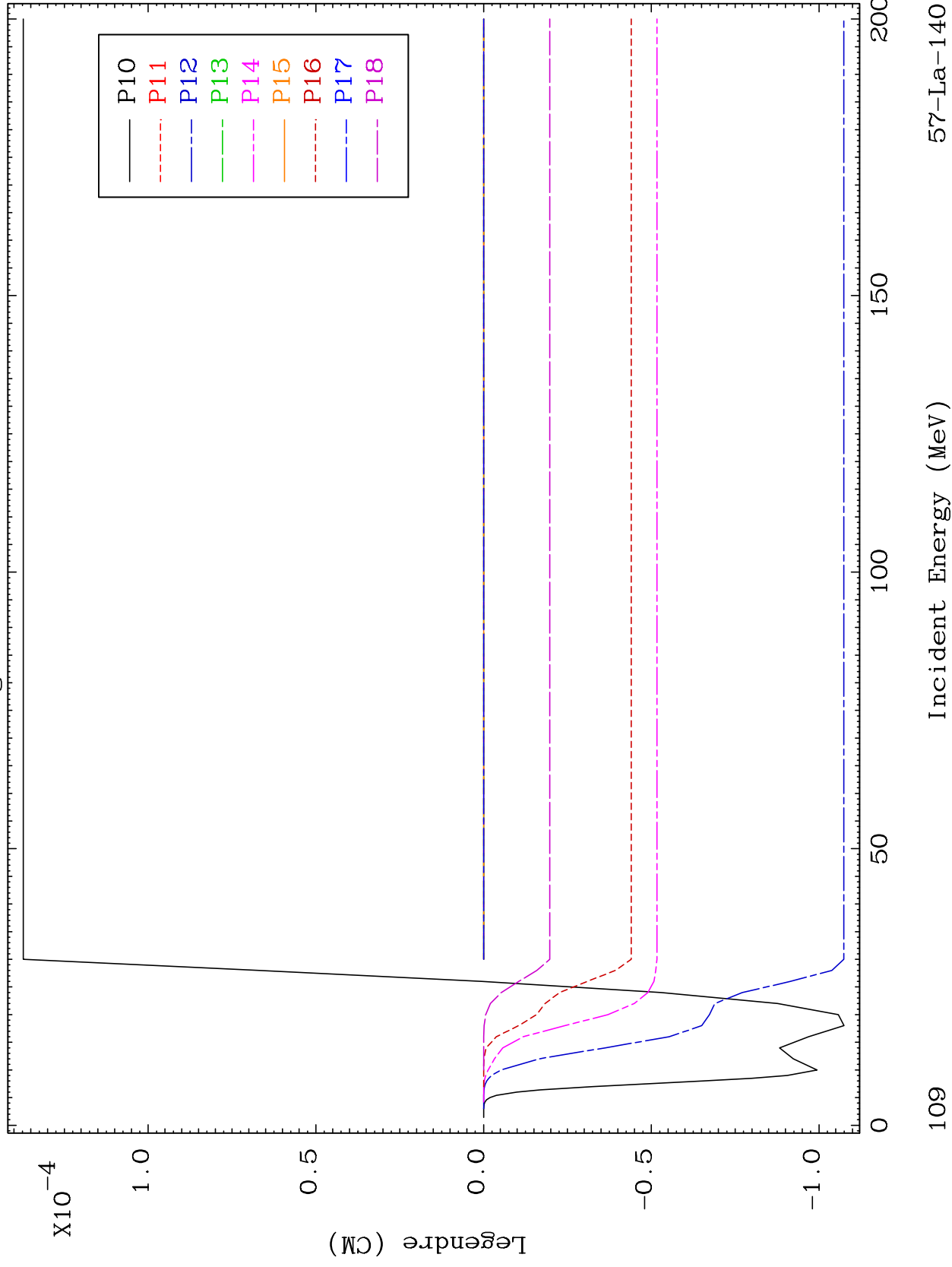




MAT 5731

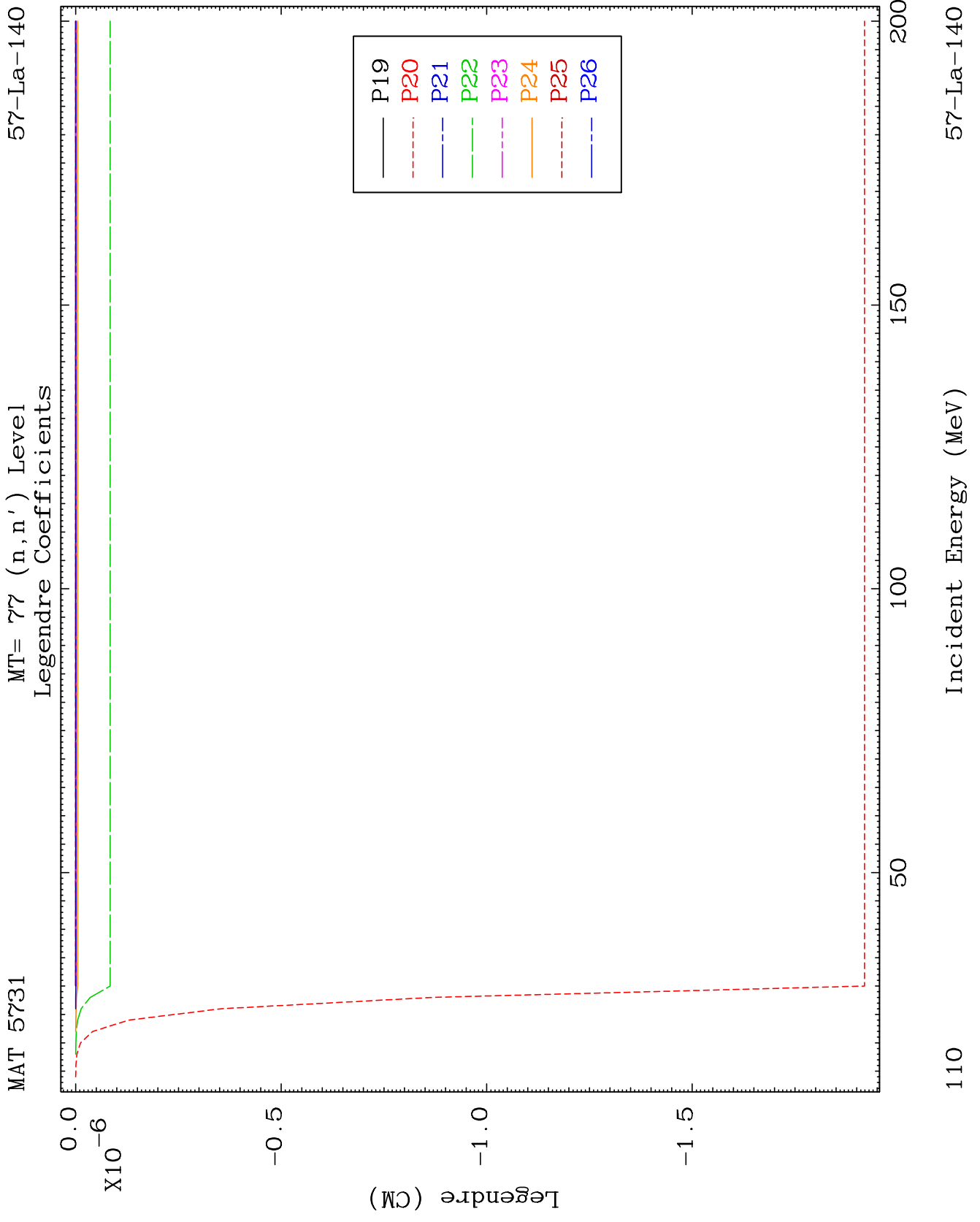
MT= 77 (n,n') Level  
Legendre Coefficients

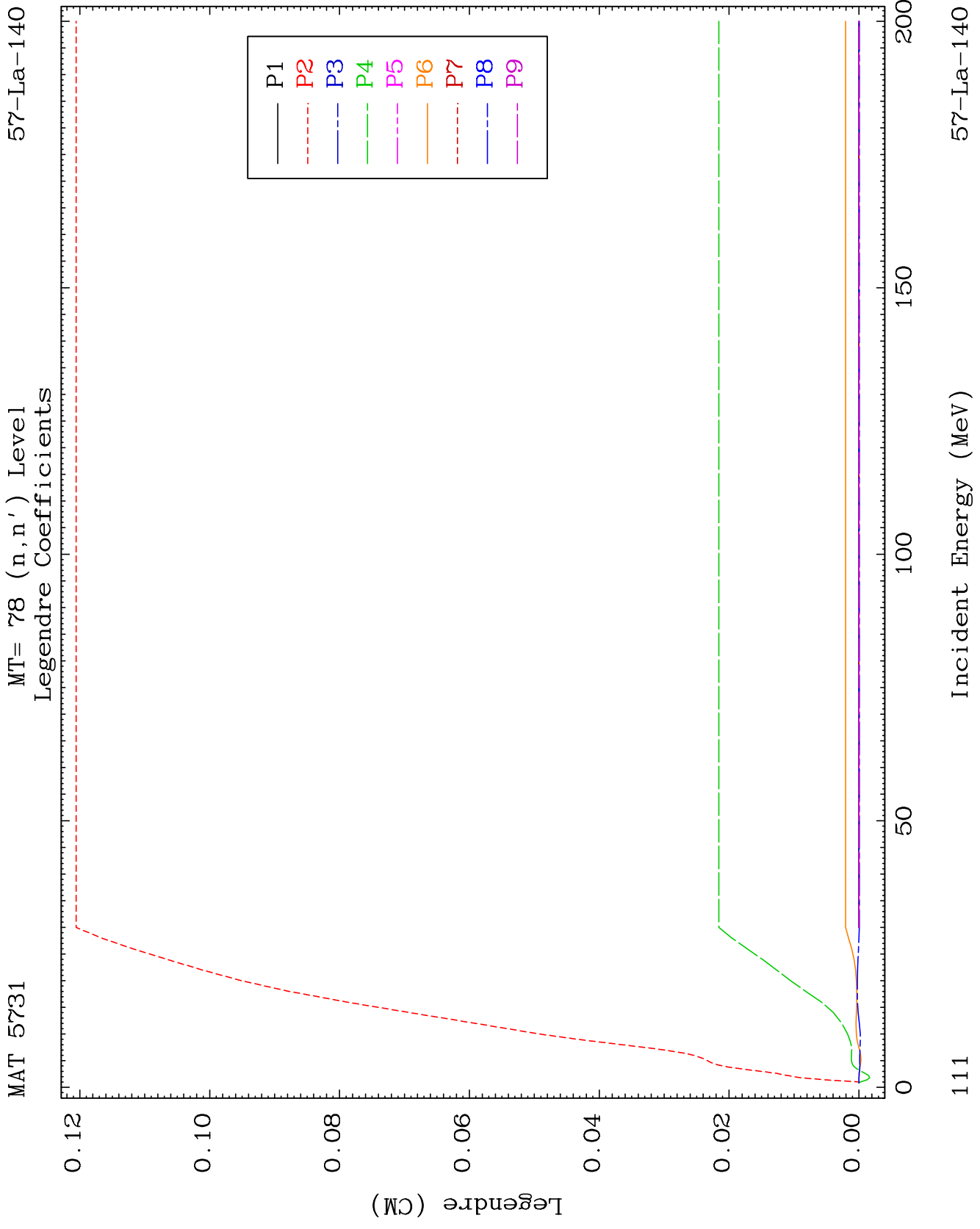
57-La-140



109

57-La-140



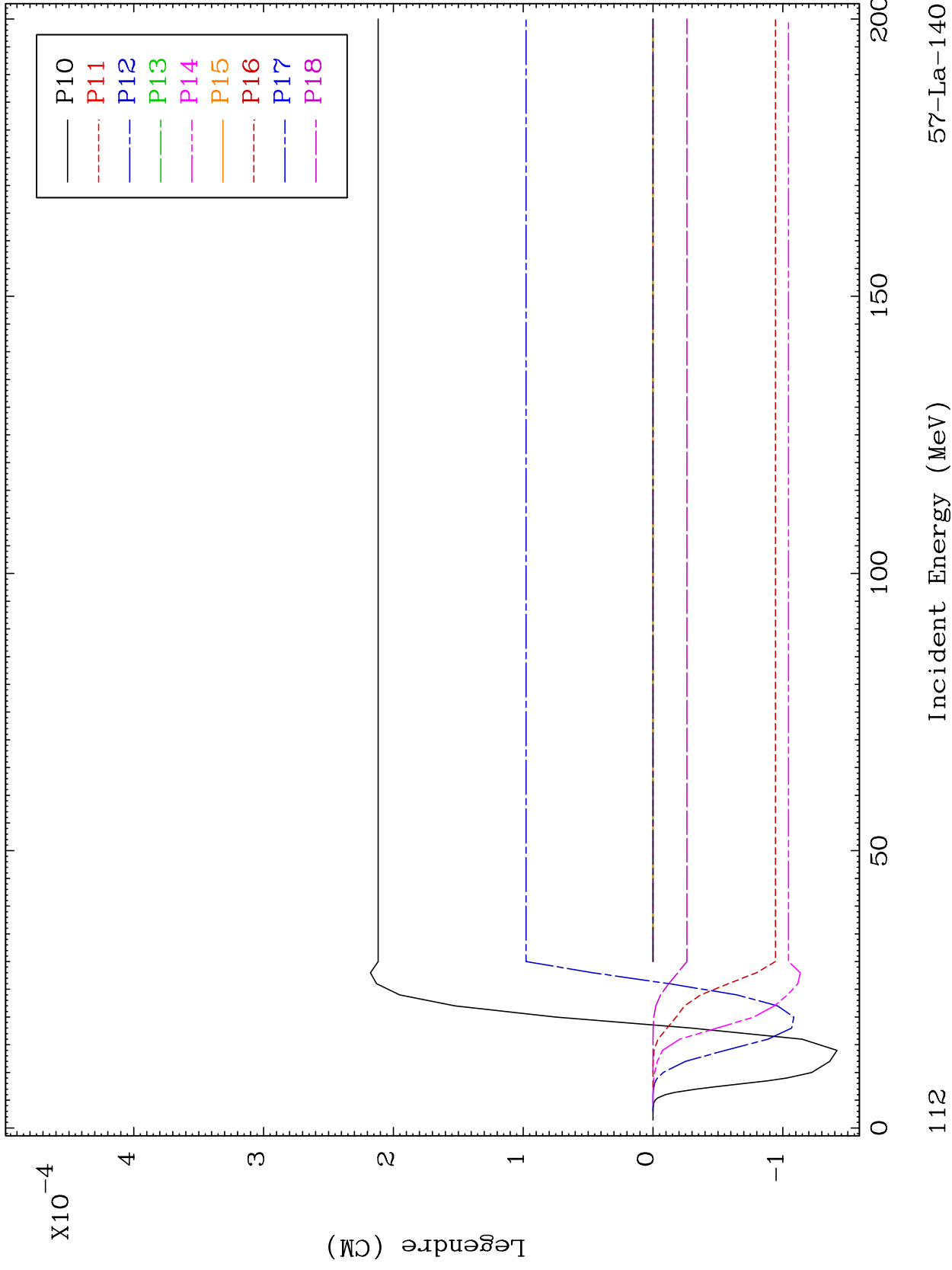




MAT 5731

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

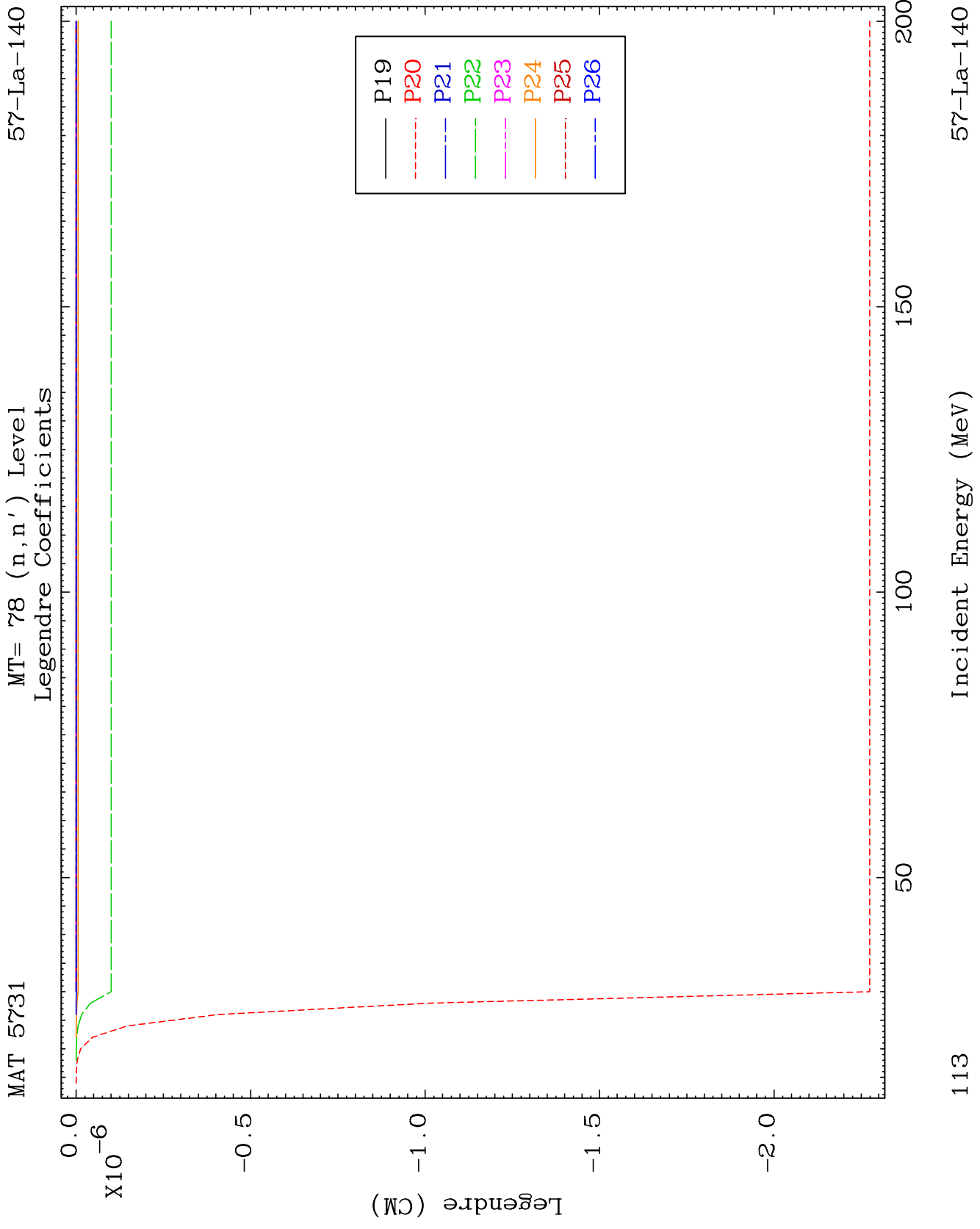
57-La-140

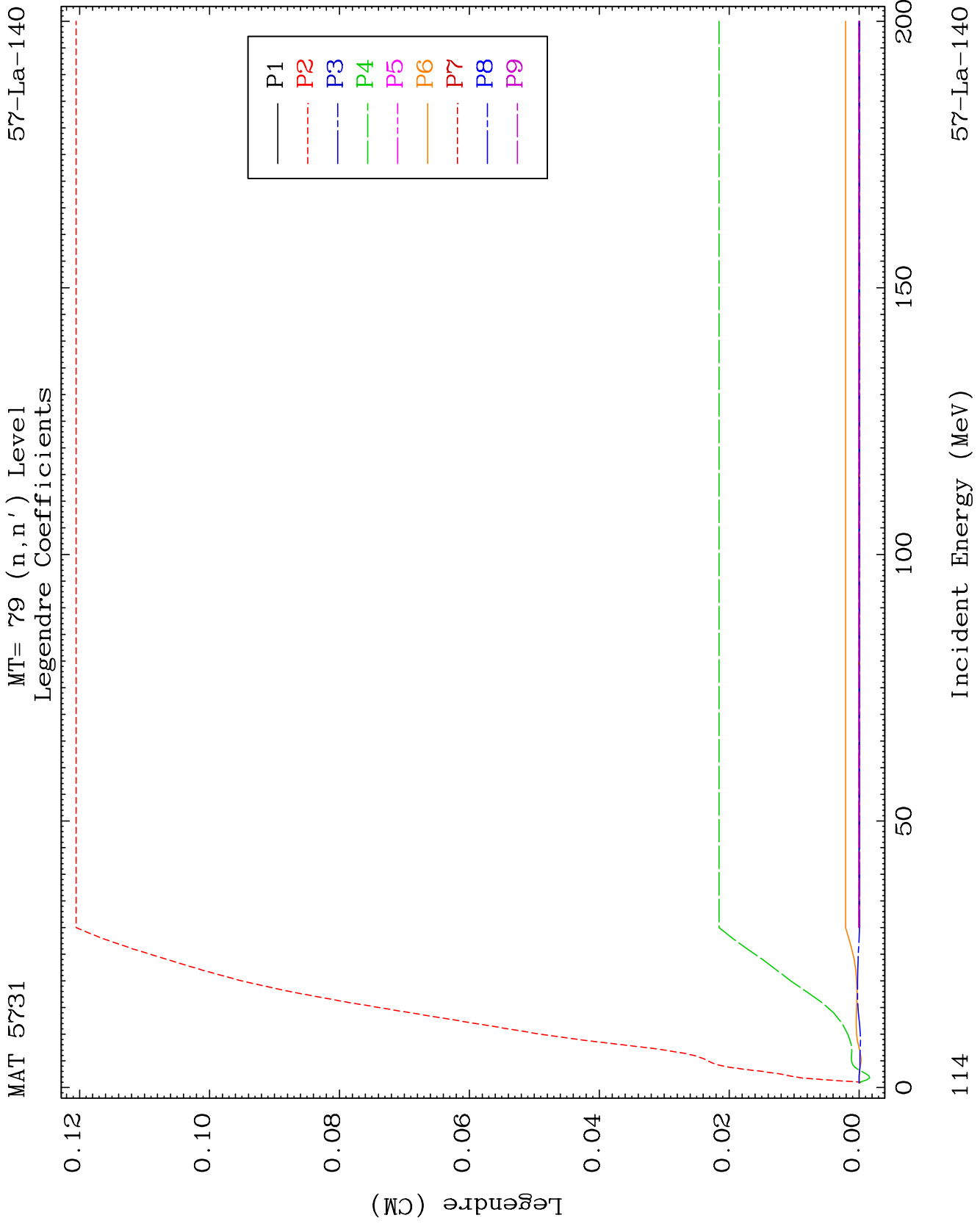


57-La-140

Incident Energy (MeV)

112

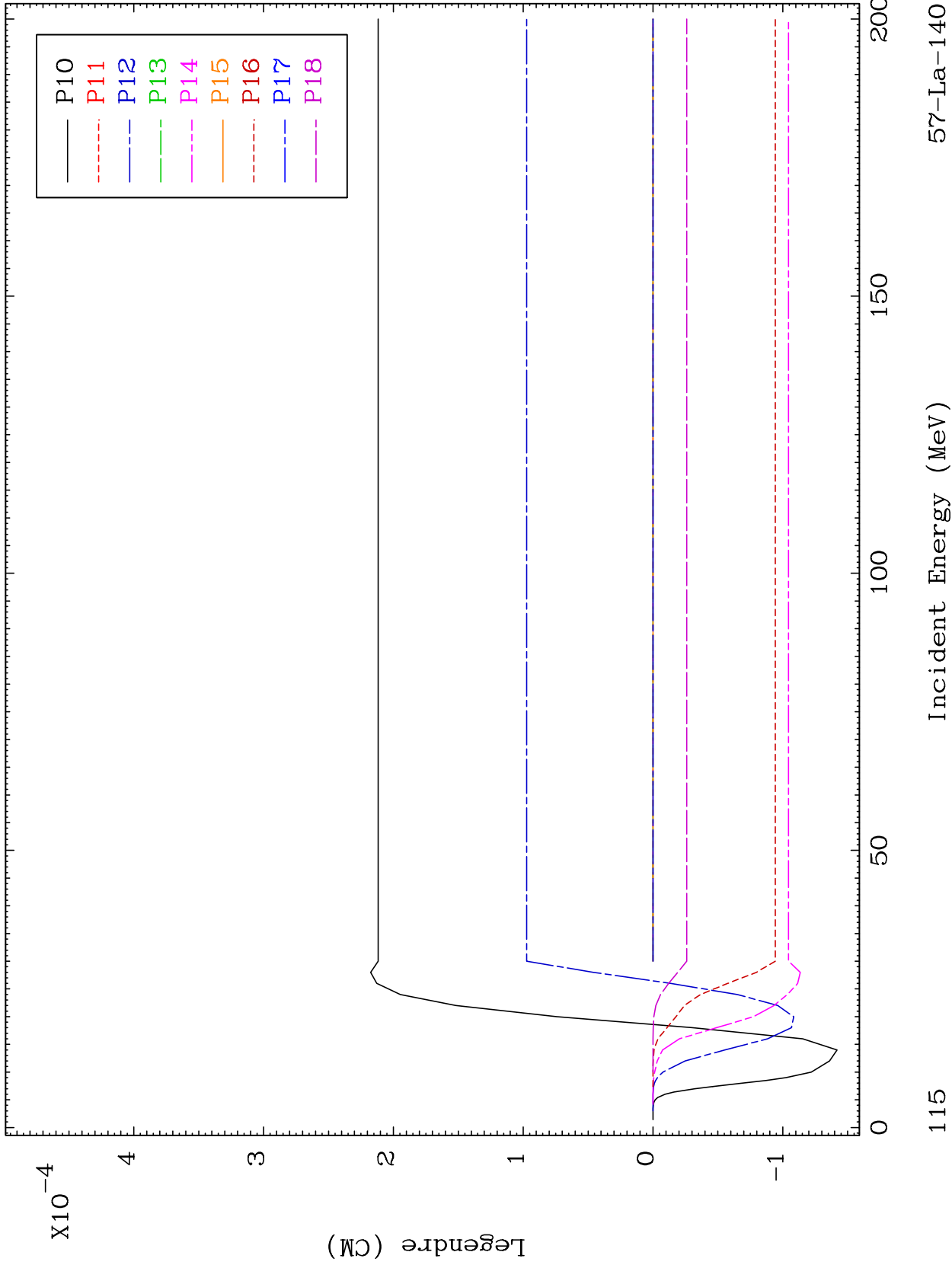




MAT 5731

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

57-La-140

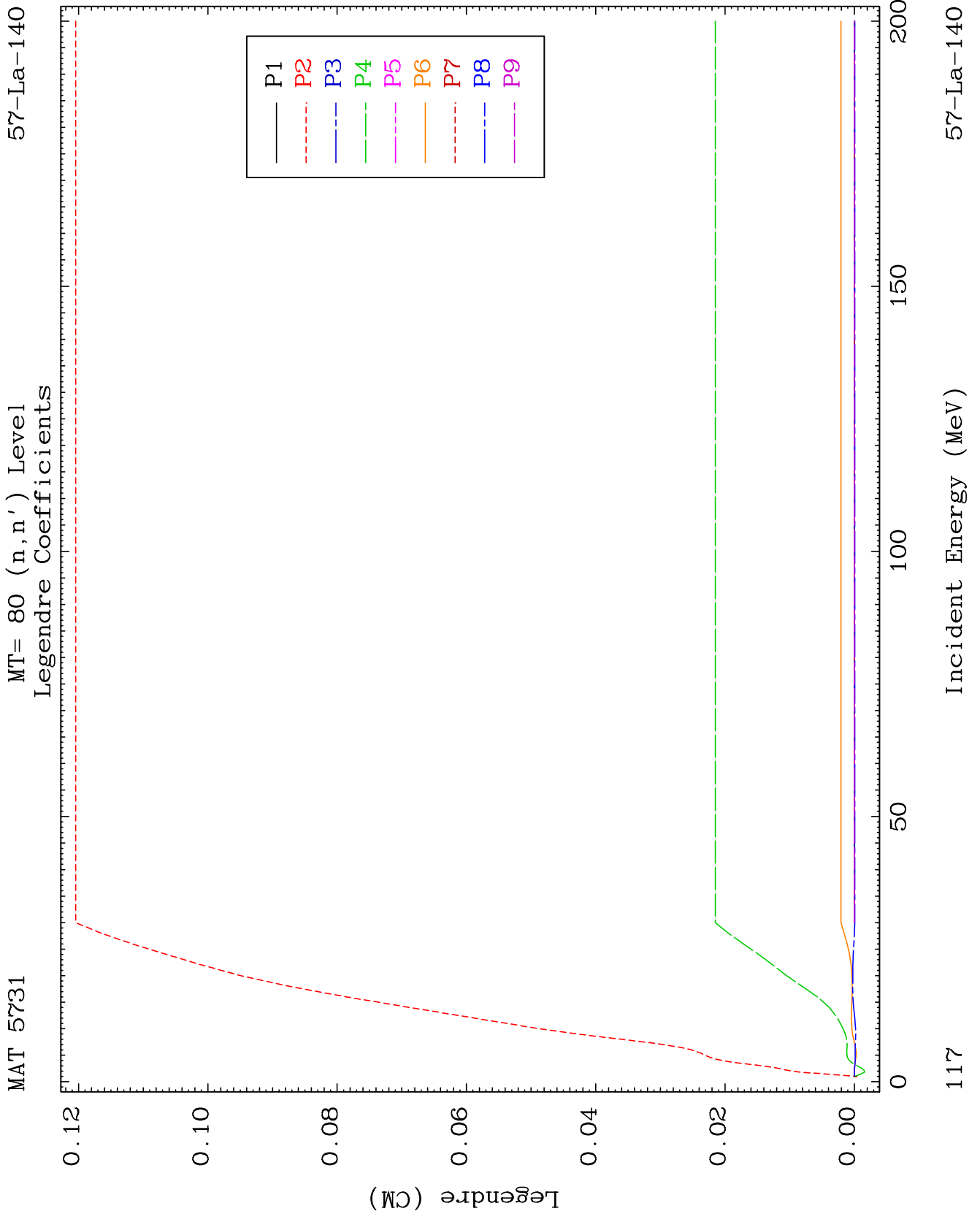


57-La-140

Incident Energy (MeV)

115

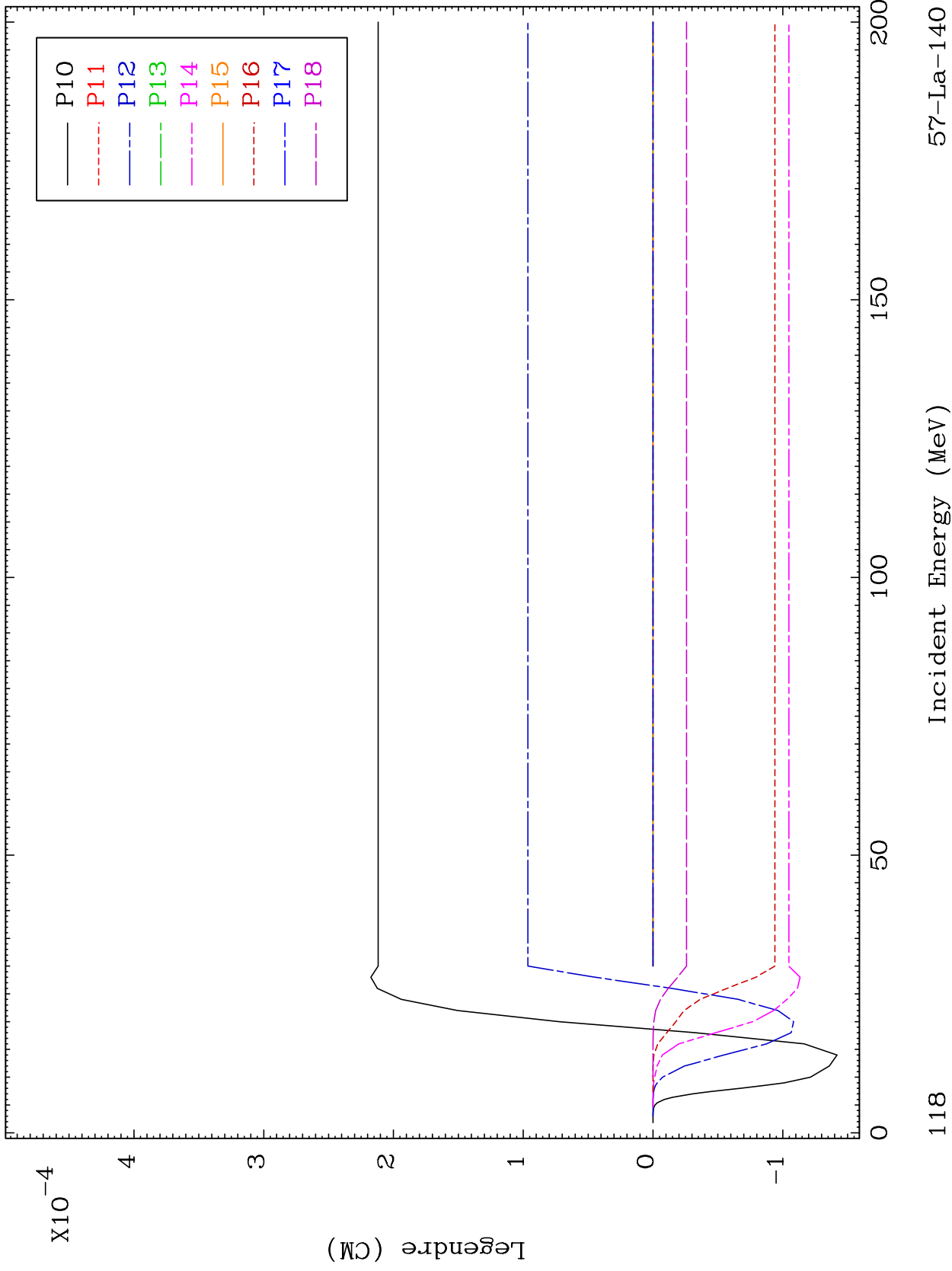


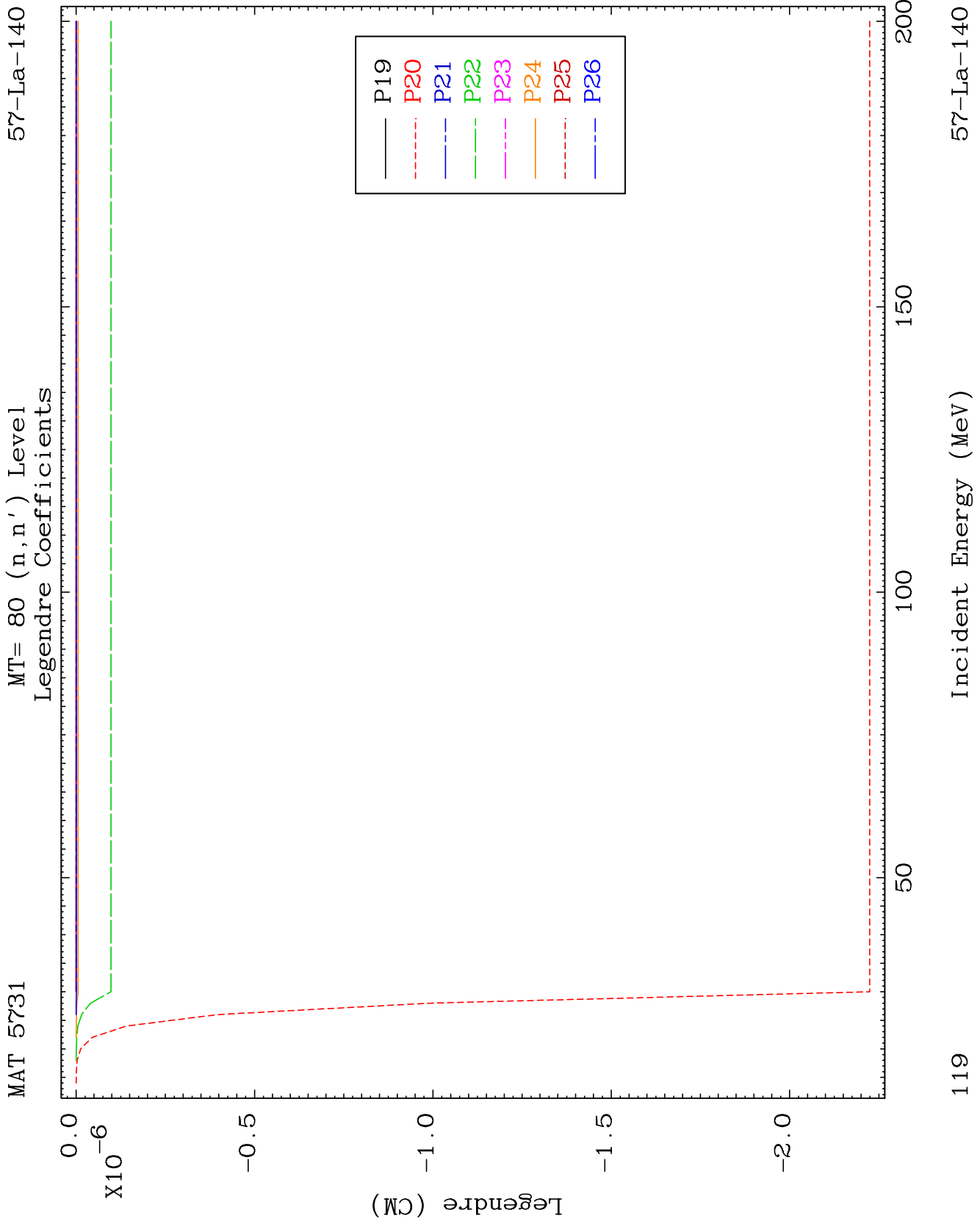


MAT 5731

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

57-La-140



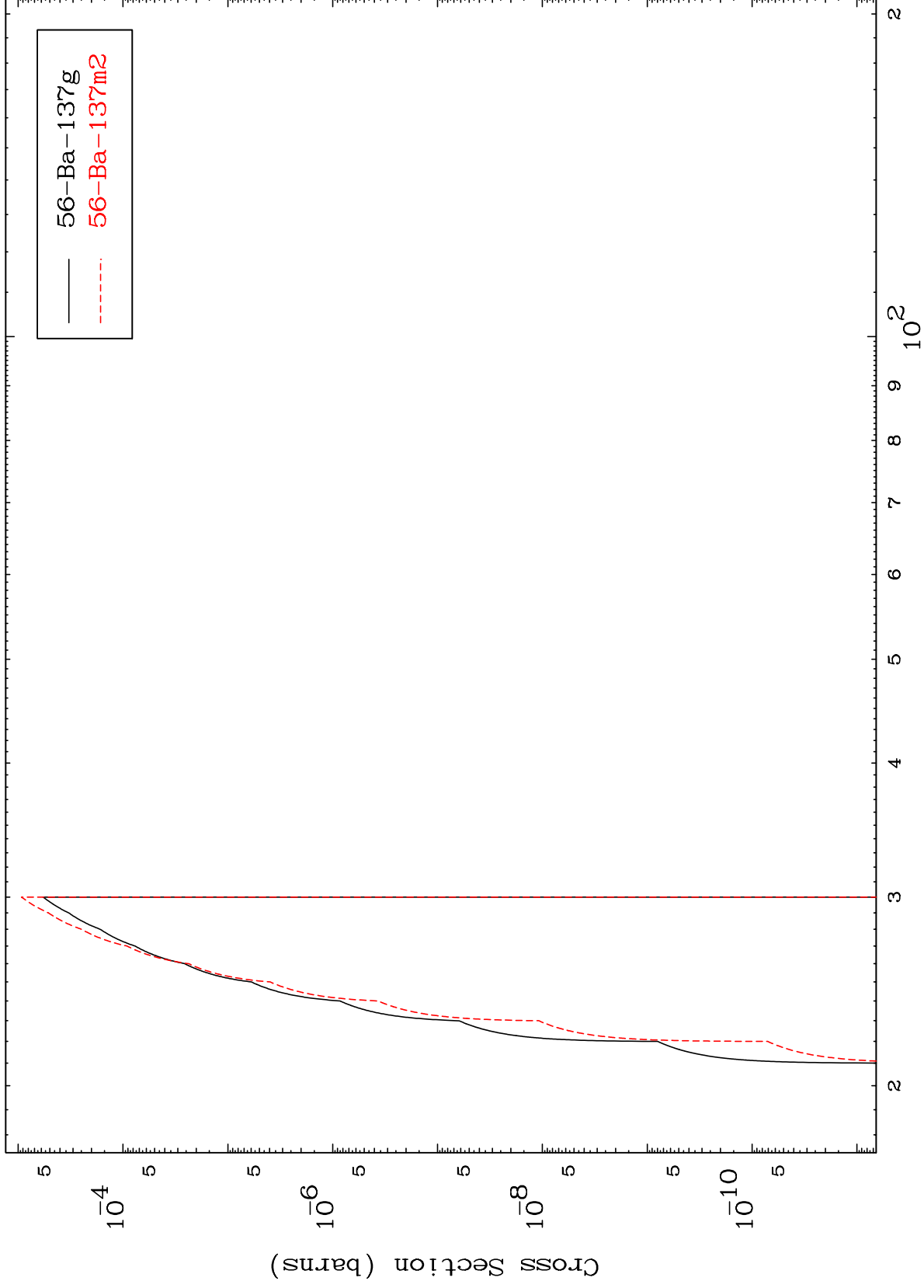




MAT 5731

57-La-140

(n,2n) d  
Radionuclide Production Cross Section



120

Incident Energy (MeV)

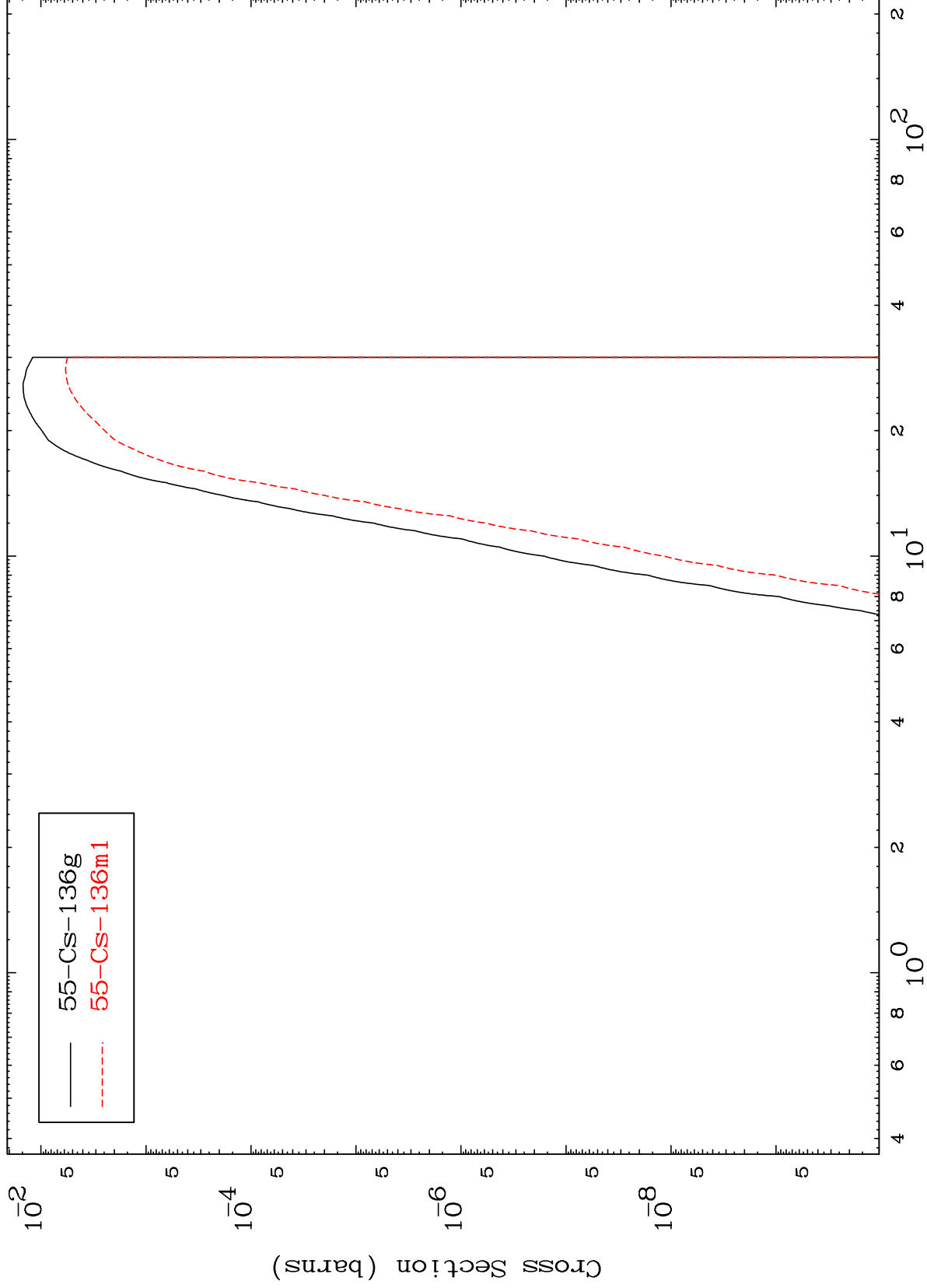
57-La-140

MAT 5731

$(n, n') \alpha$

57-La-140

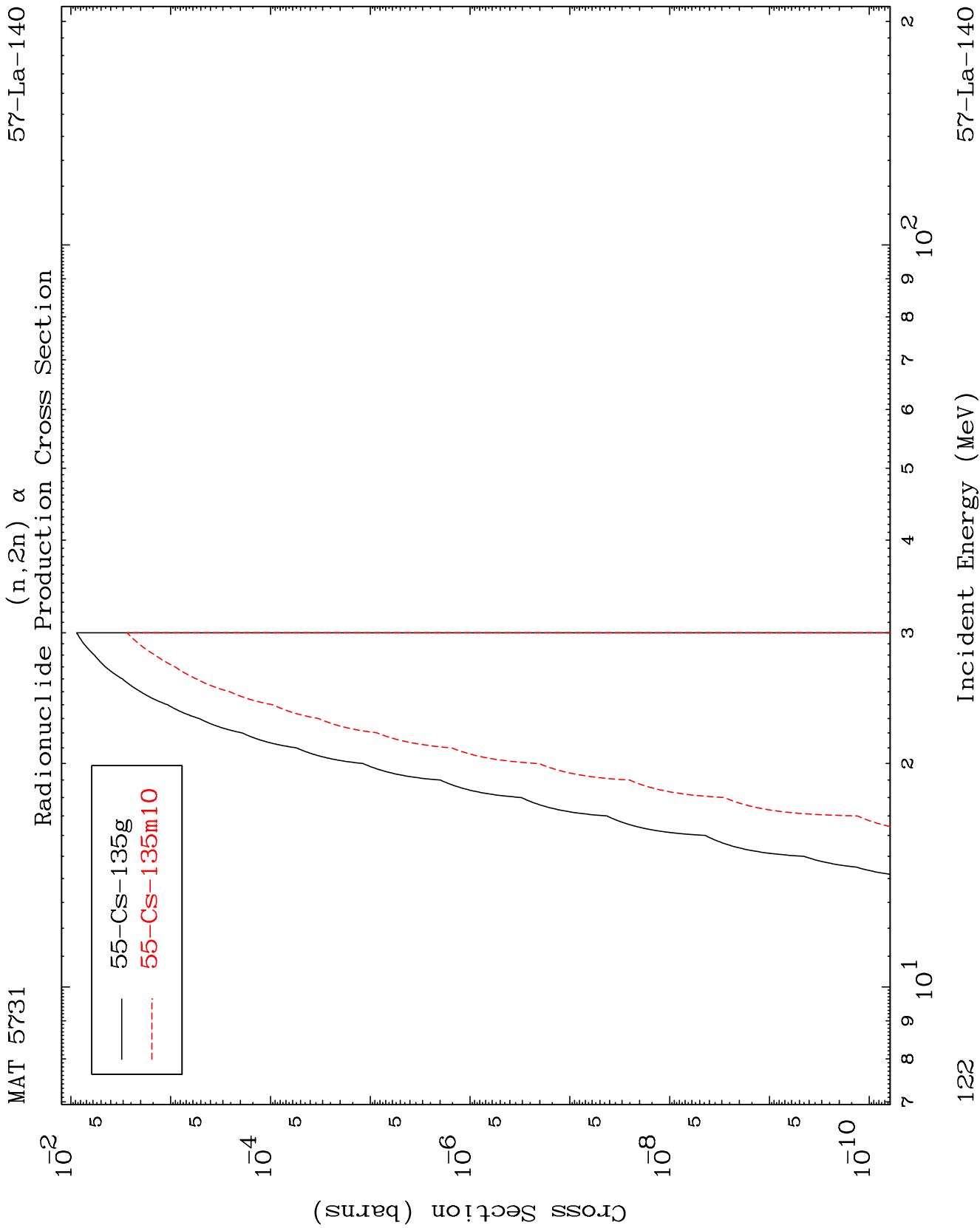
Radionuclide Production Cross Section



121

Incident Energy (MeV)

57-La-140

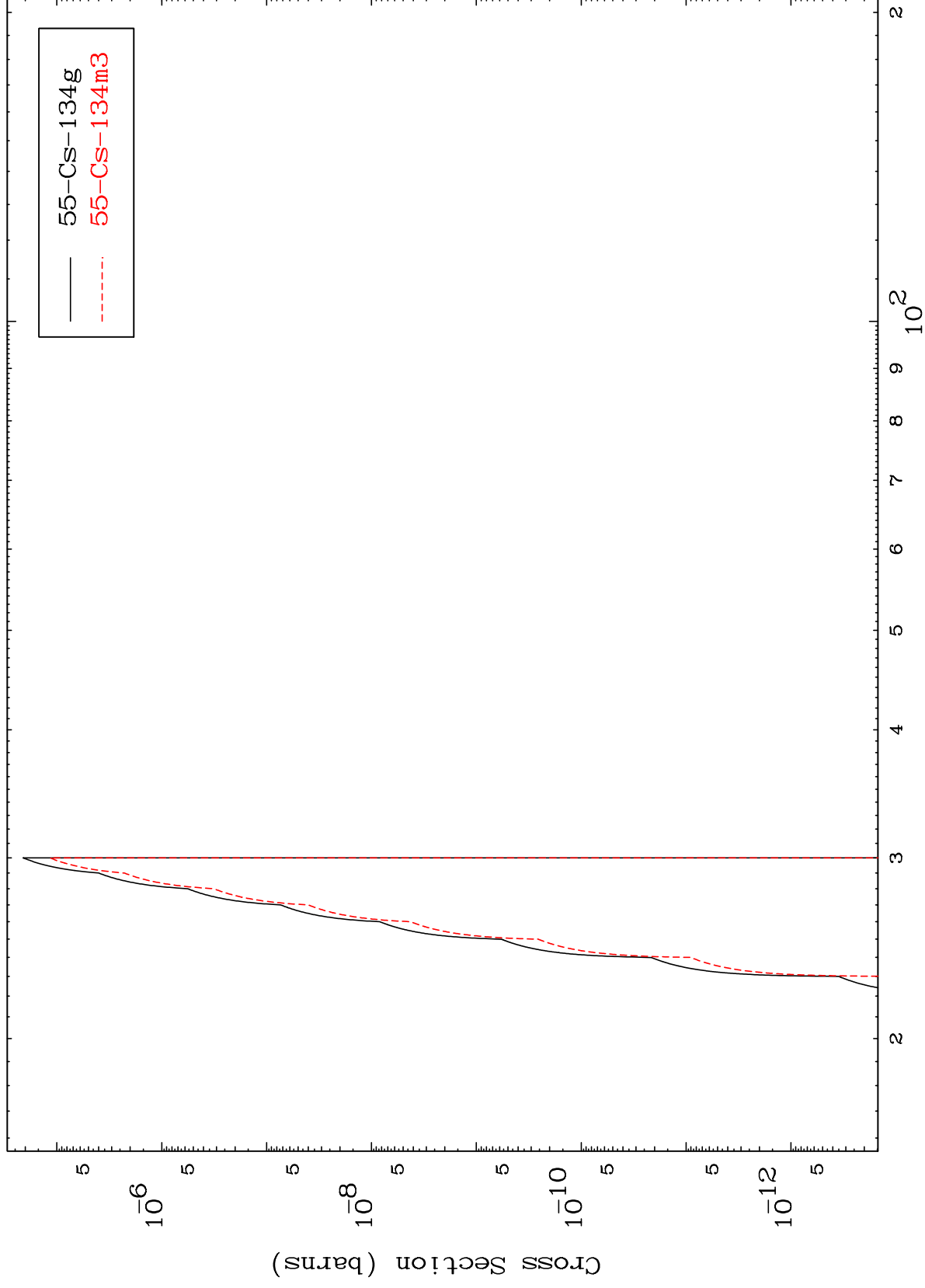


MAT 5731

57-La-140

(n,3n)  $\alpha$

Radionuclide Production Cross Section



123

Incident Energy (MeV)

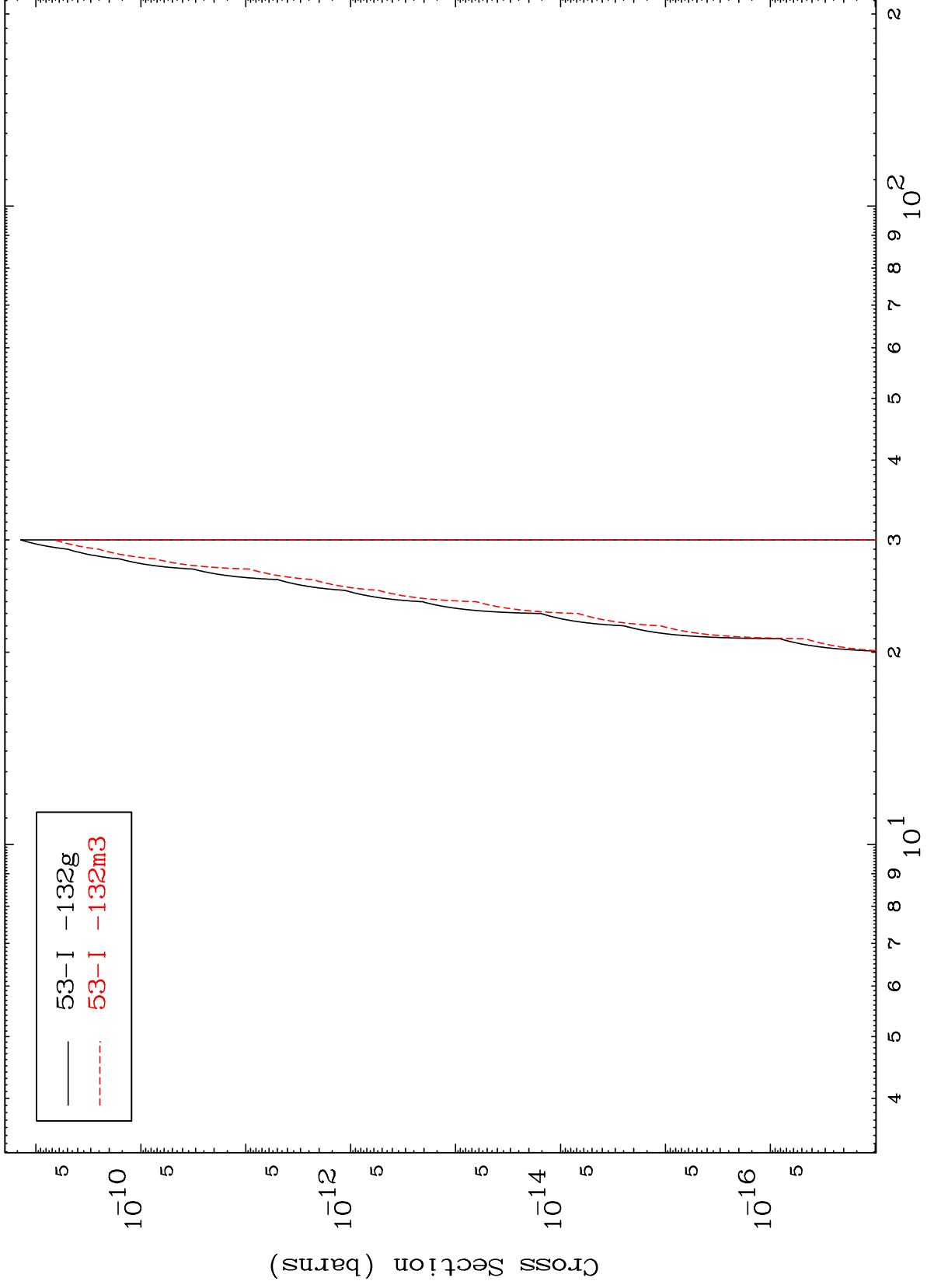
57-La-140

MAT 5731

(n,n') 2α

57-La-140

Radionuclide Production Cross Section



124

Incident Energy (MeV)

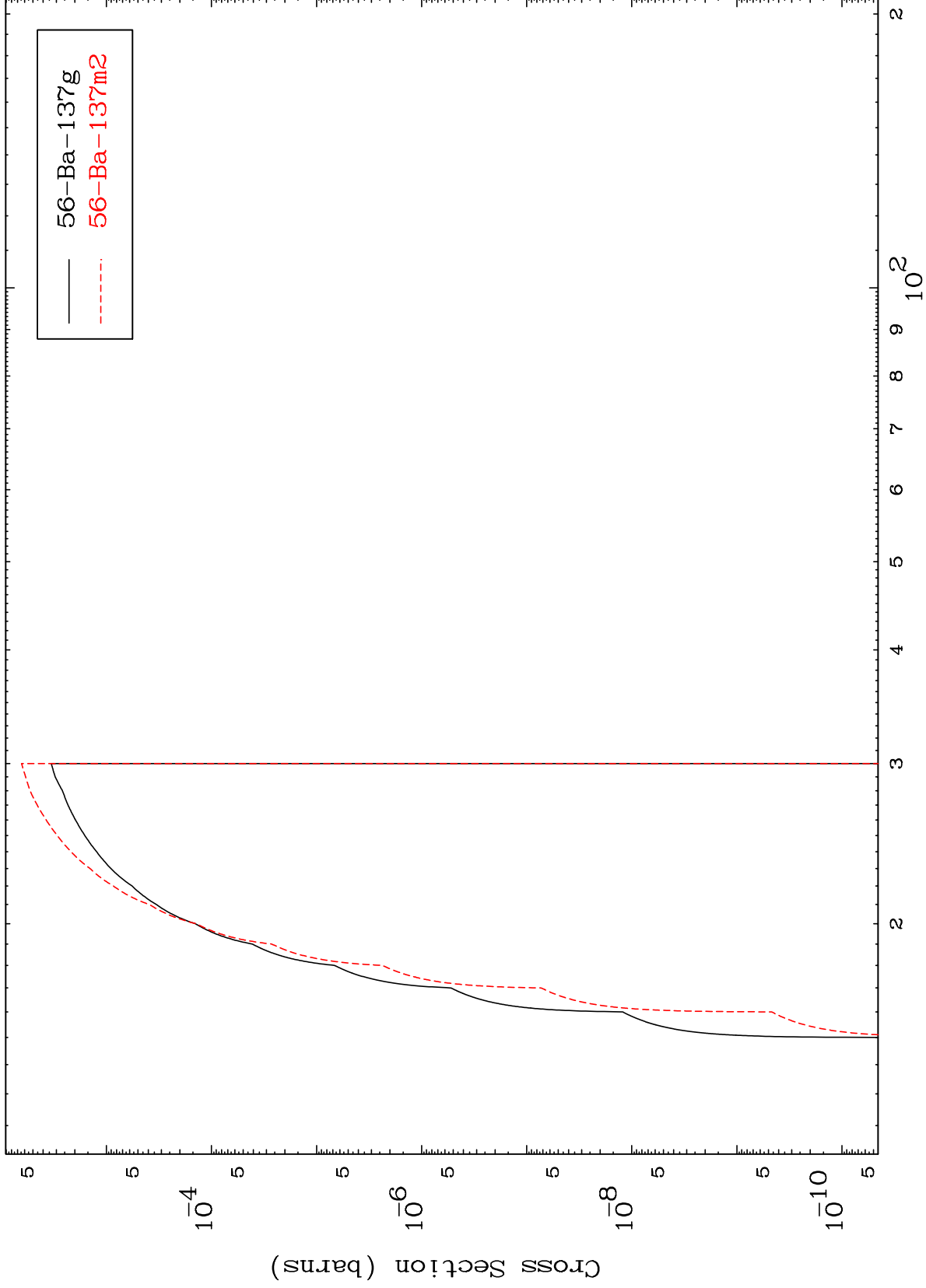
57-La-140

MAT 5731

(n,n') t

57-La-140

Radionuclide Production Cross Section



125

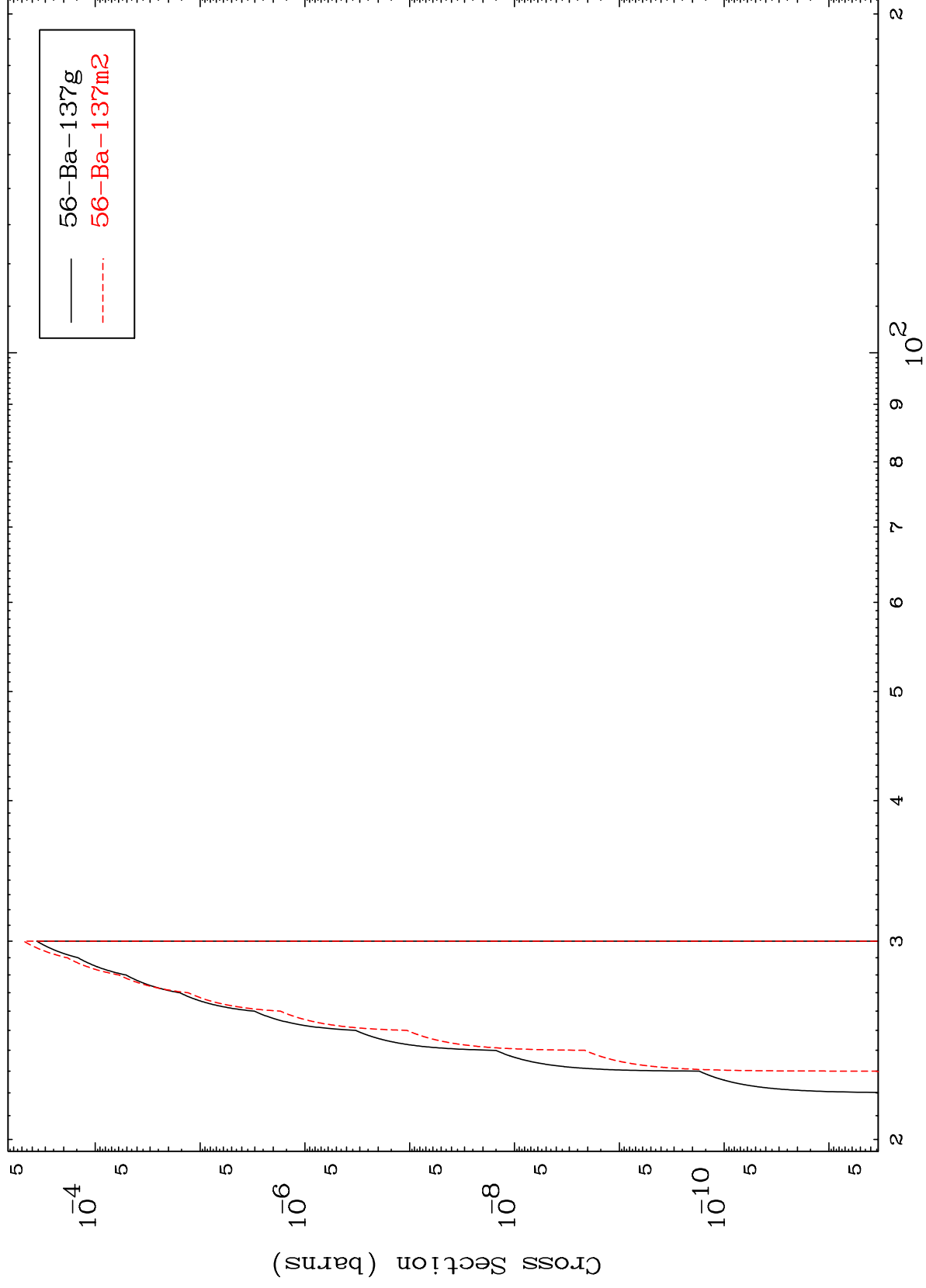
Incident Energy (MeV)

57-La-140

MAT 5731

57-La-140

(n,3n) p  
Radionuclide Production Cross Section

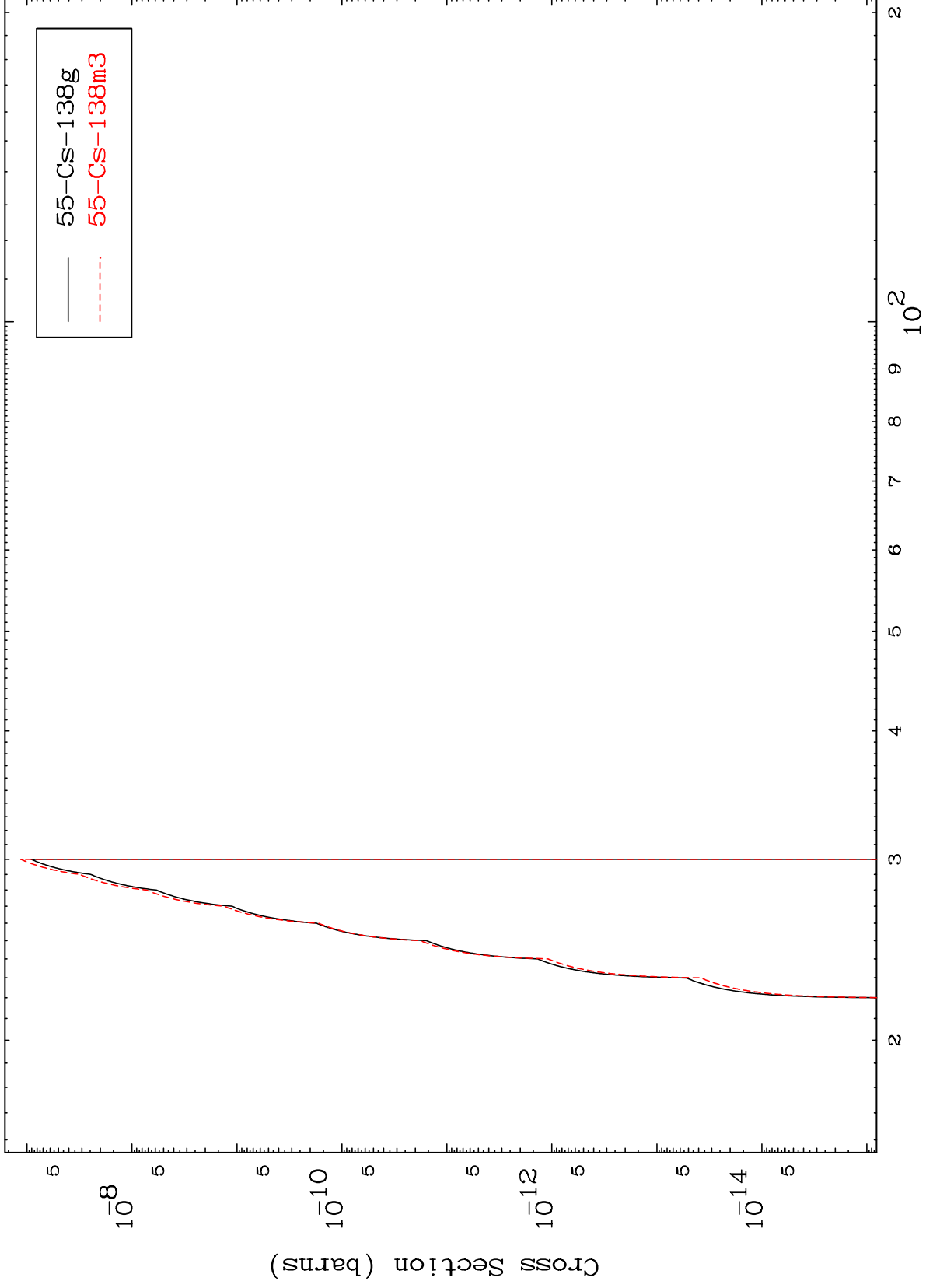


126

Incident Energy (MeV)

57-La-140

(n,2n) p  
Radionuclide Production Cross Section



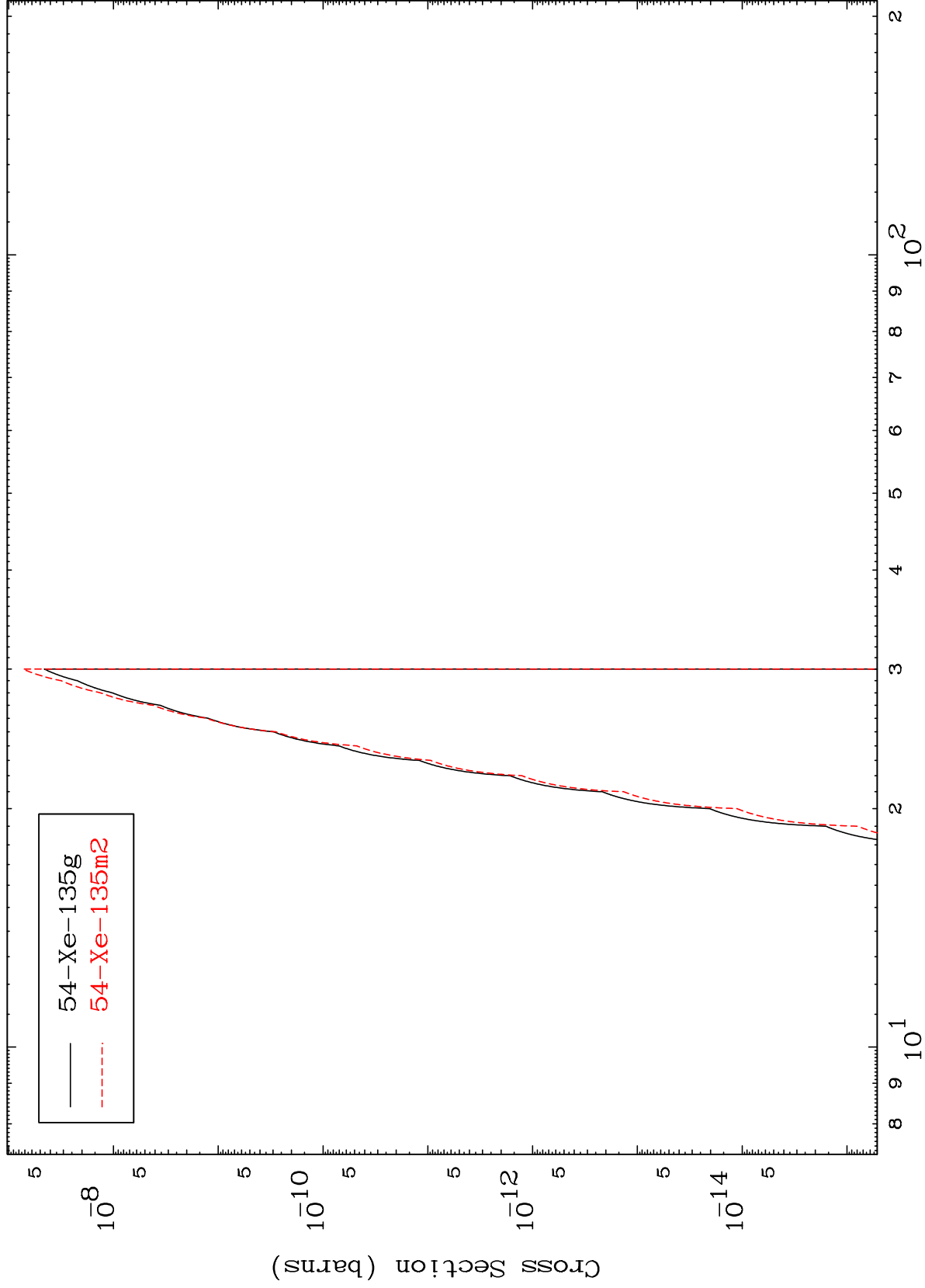


MAT 5731

(n,n') p  $\alpha$

57-La-140

Radionuclide Production Cross Section



128

Incident Energy (MeV)

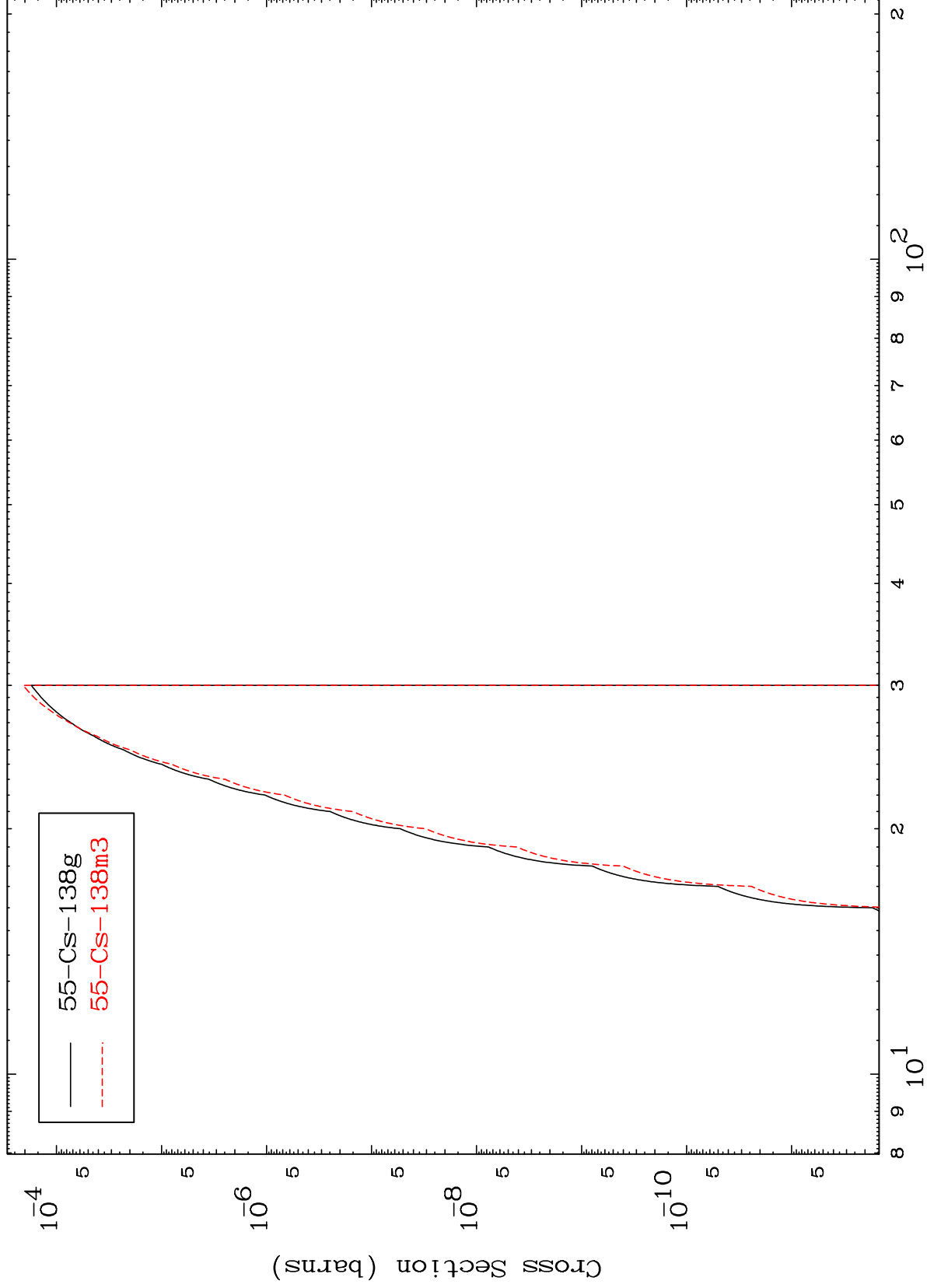
57-La-140

MAT 5731

(n,He-3)

57-La-140

Radionuclide Production Cross Section



129

Incident Energy (MeV)

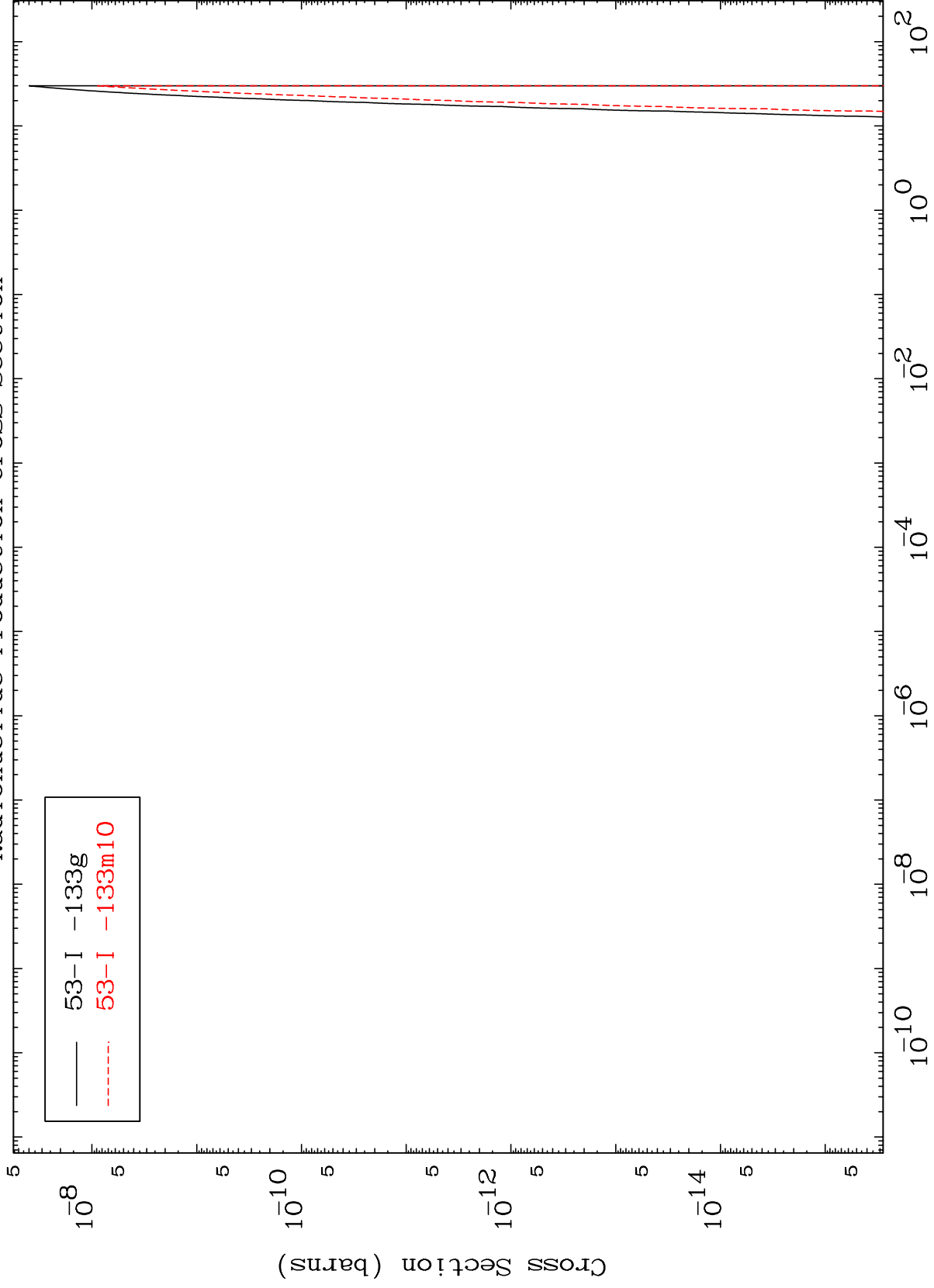
57-La-140

MAT 5731

(n,2α)

57-La-140

Radionuclide Production Cross Section



130

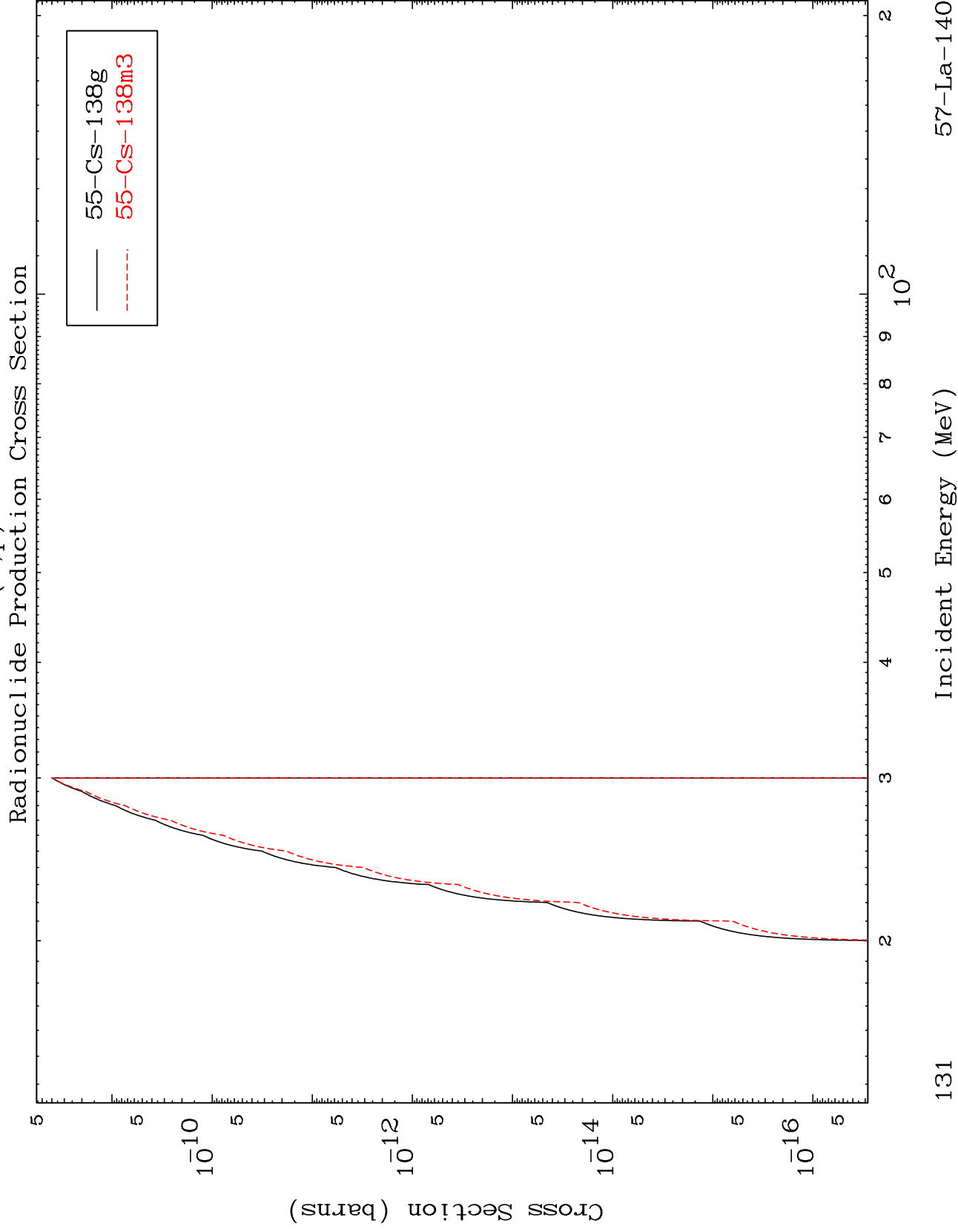
Incident Energy (MeV)

57-La-140

MAT 5731

(n,p) d

57-La-140



131

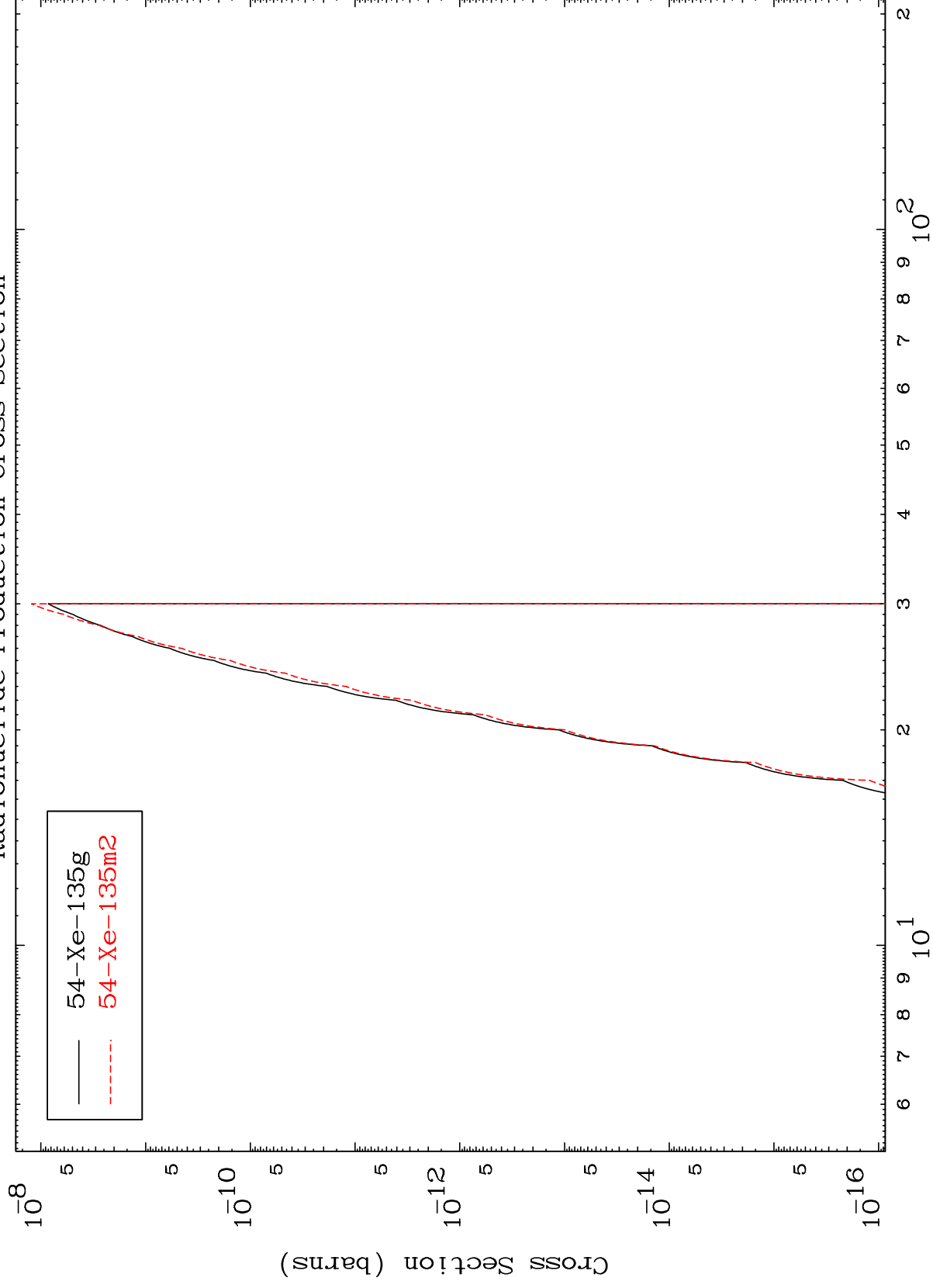
57-La-140

MAT 5731

57-La-140

(n,d)  $\alpha$

Radionuclide Production Cross Section



132

Incident Energy (MeV)

57-La-140