

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

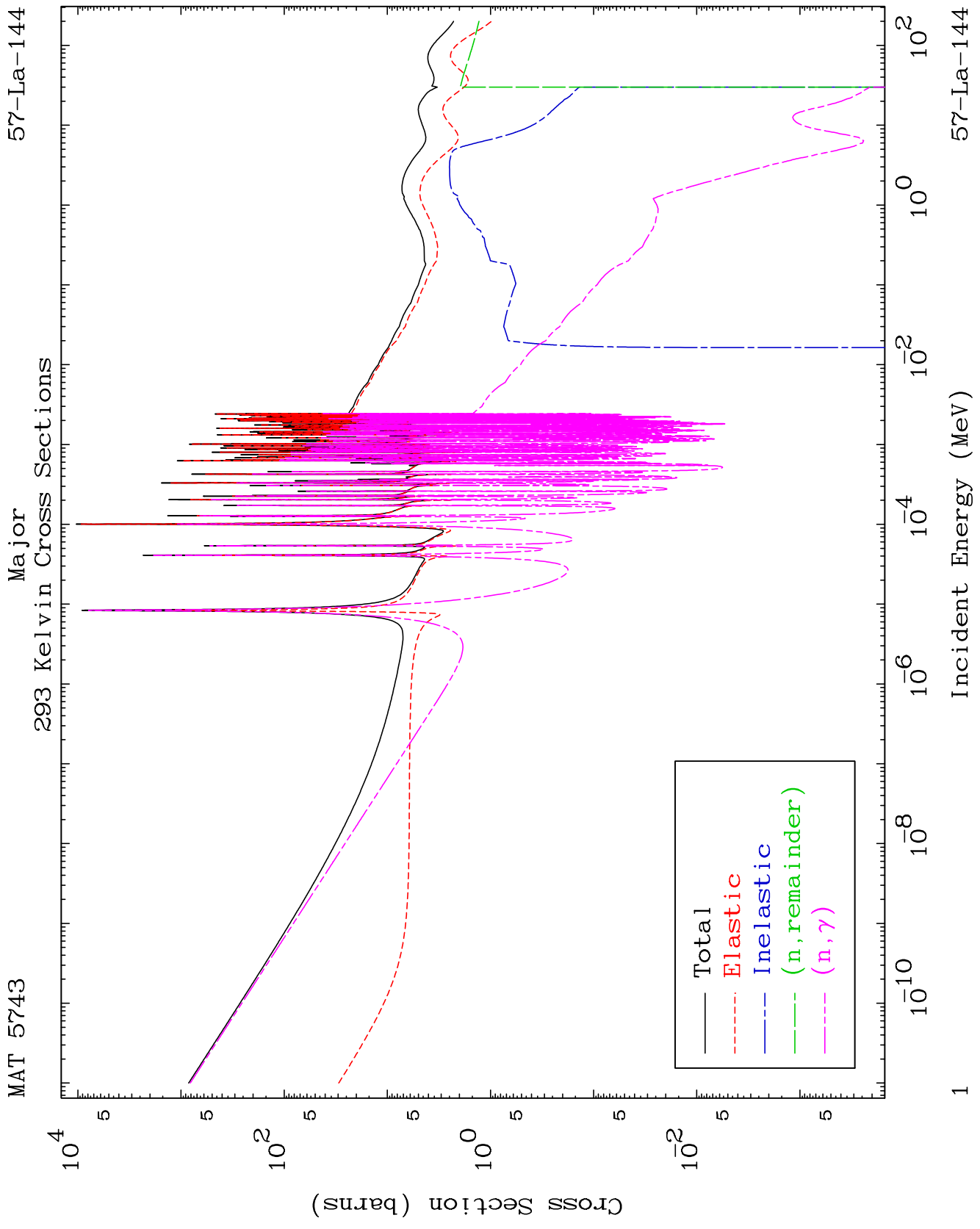
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Web:redcullen1.net/HOMEPAGE.NEW

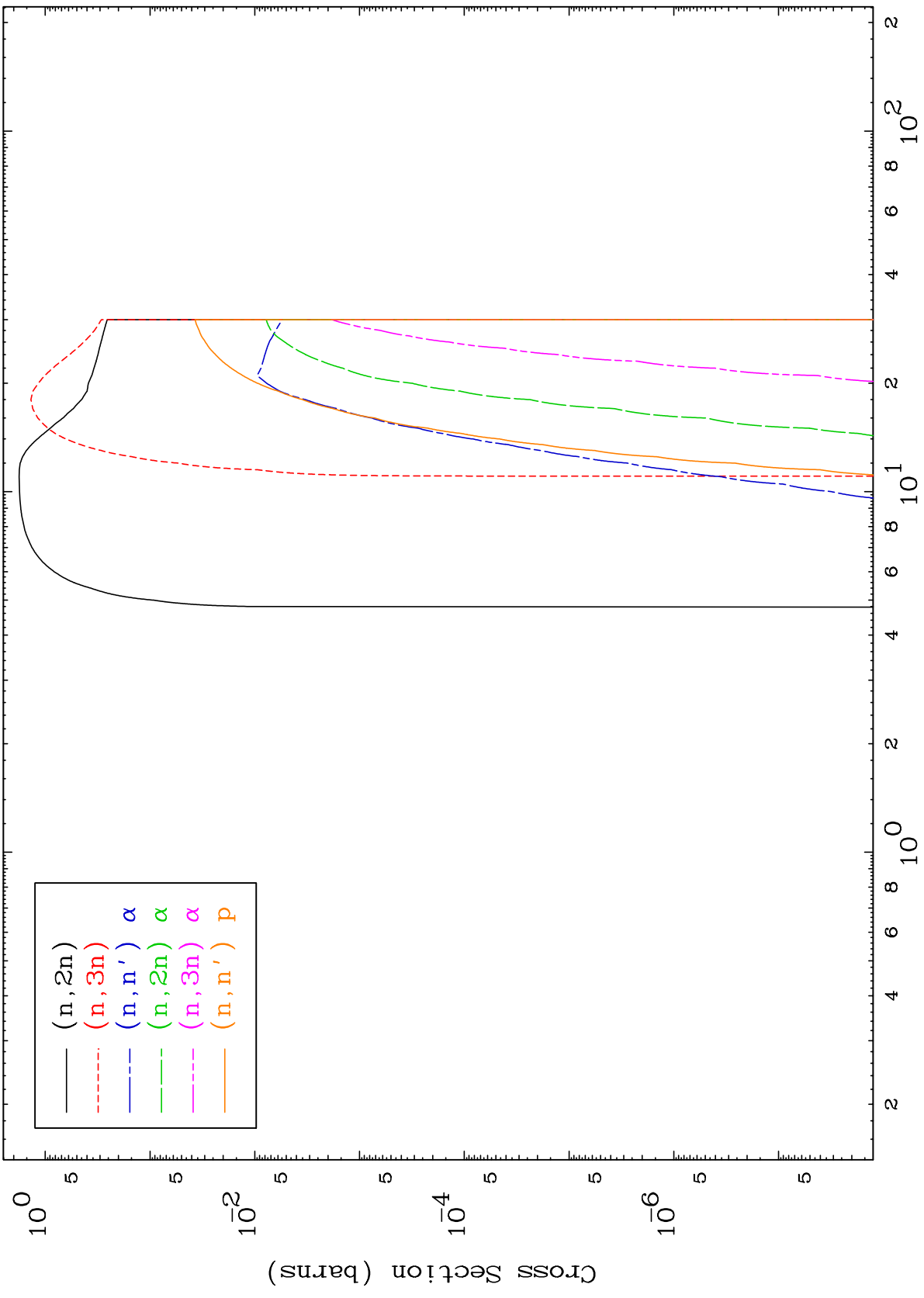
Press Mouse Button to Start



MAT 5743

Neutron Production
293 Kelvin Cross Sections

57-La-144



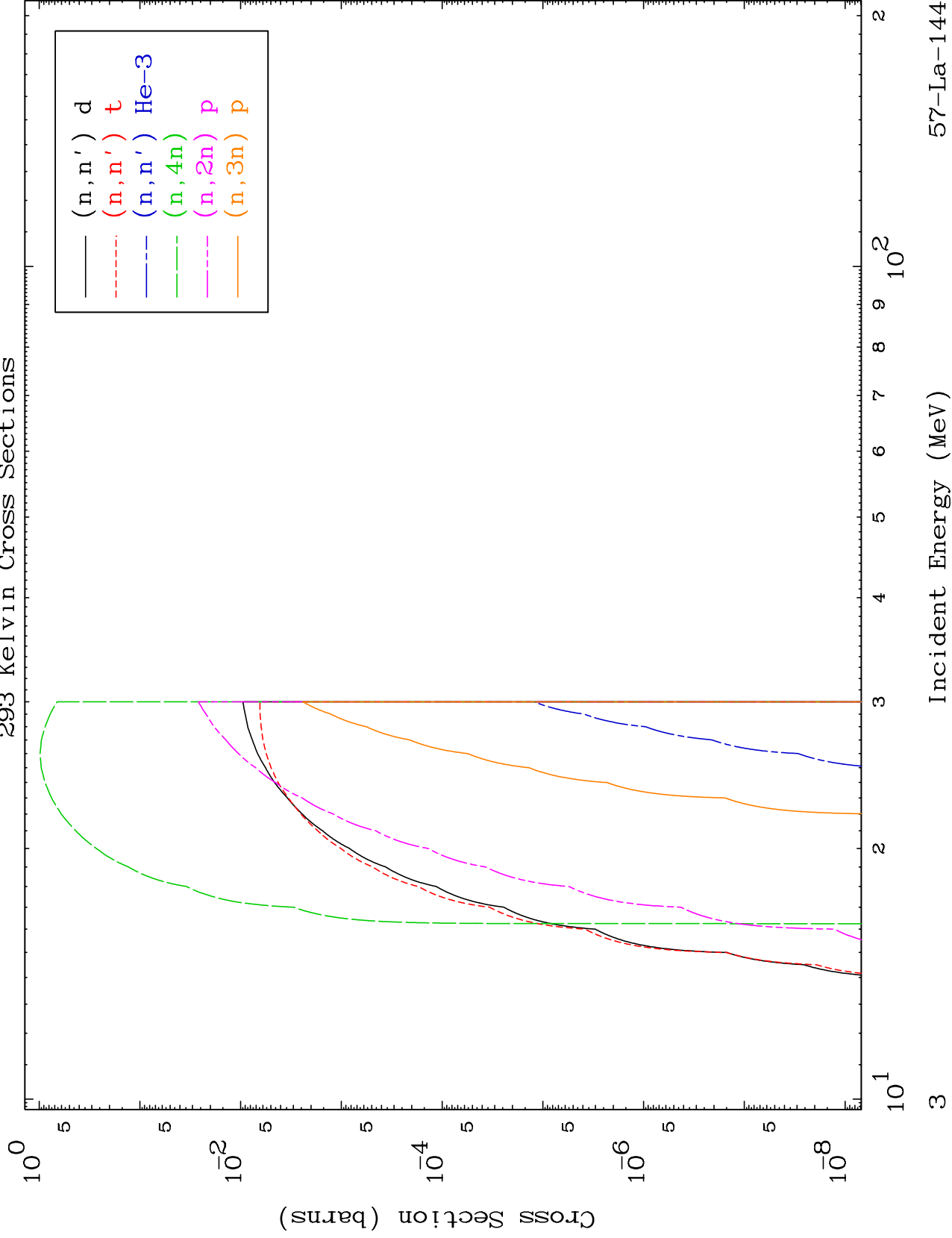
57-La-144

Incident Energy (MeV)

MAT 5743

Neutron Production 293 Kelvin Cross Sections

57-La-144

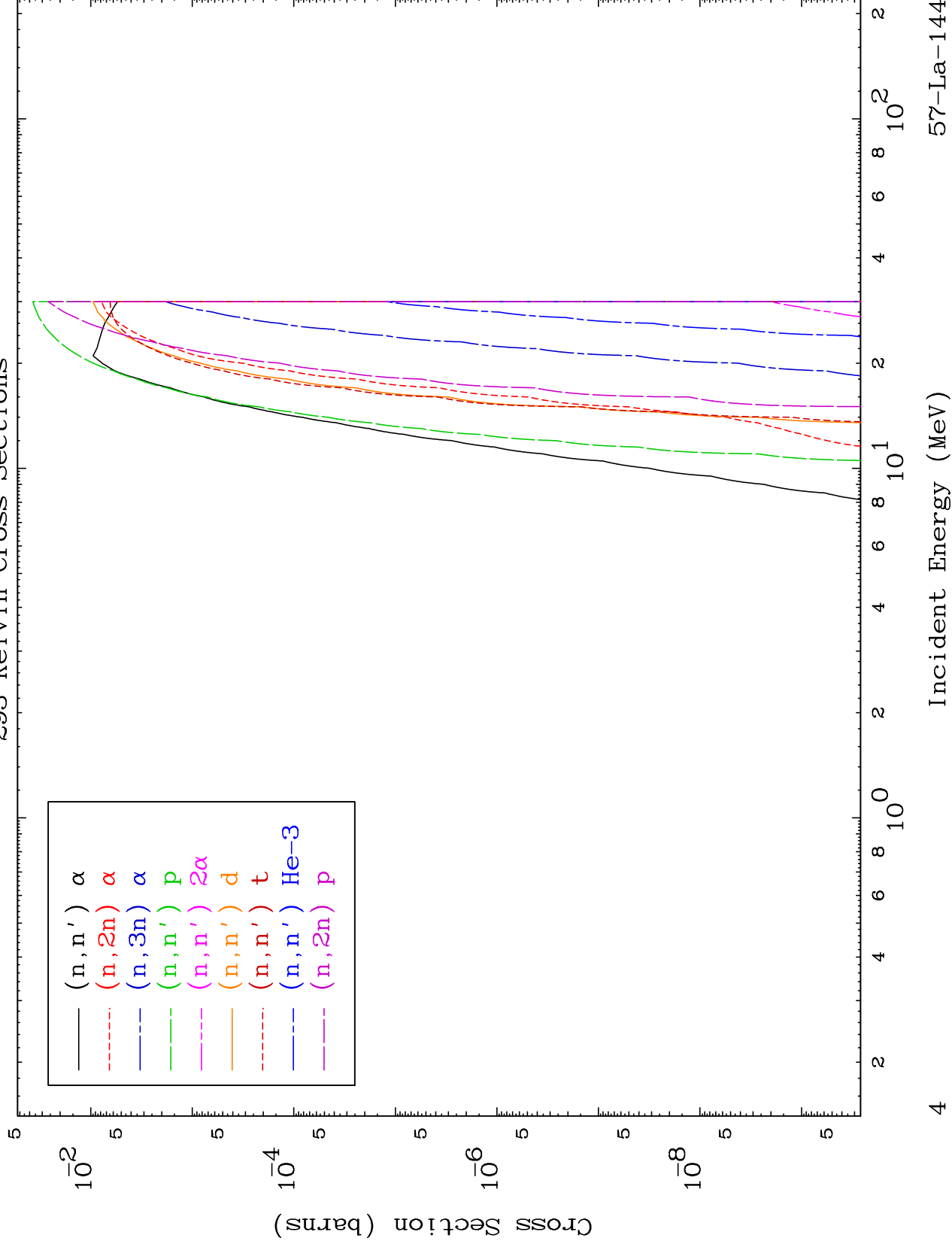


57-La-144

MAT 5743

Charged Particle
293 Kelvin Cross Sections

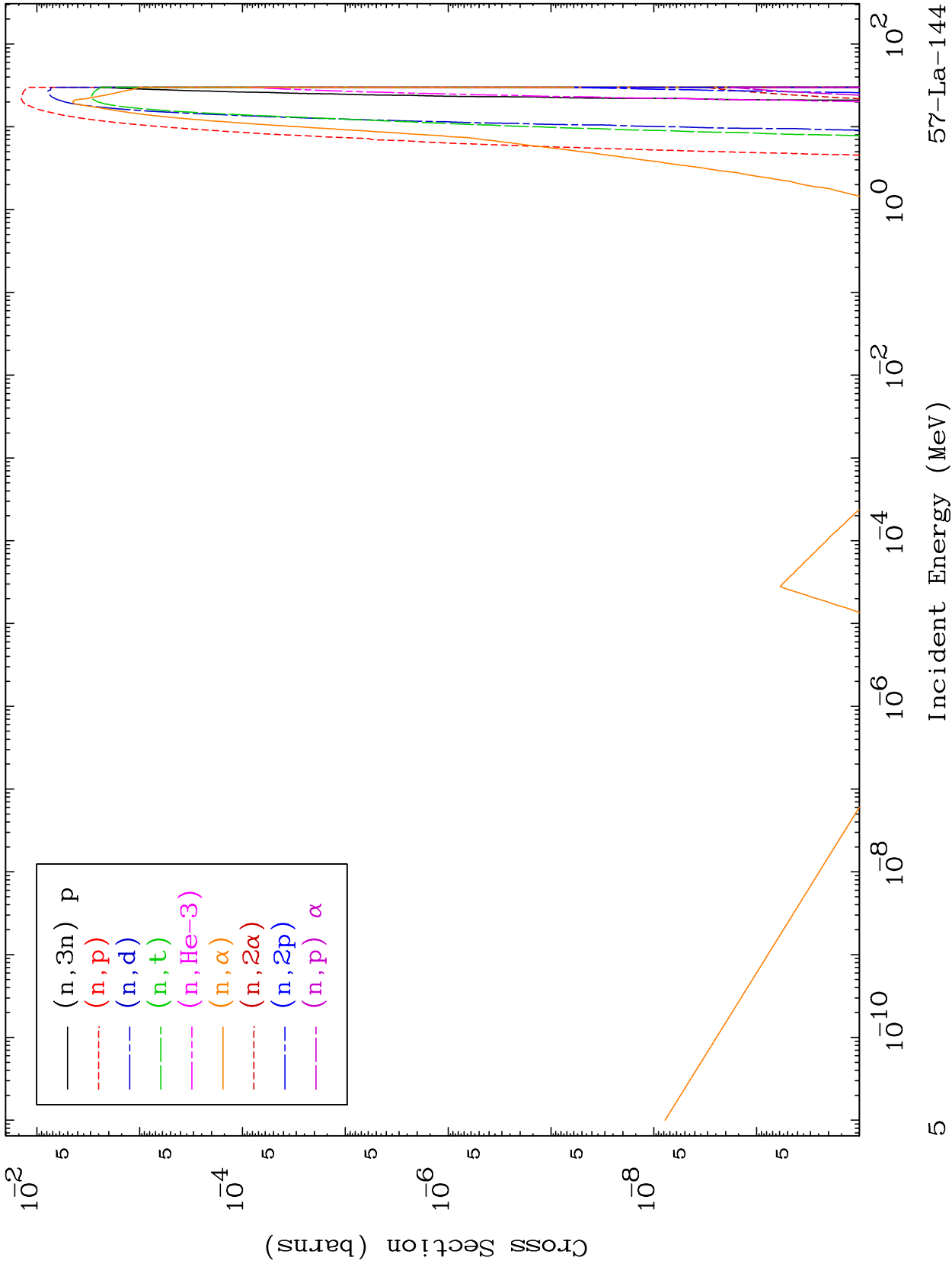
57-La-144



MAT 5743

Charged Particle
293 Kelvin Cross Sections

57-La-144



5

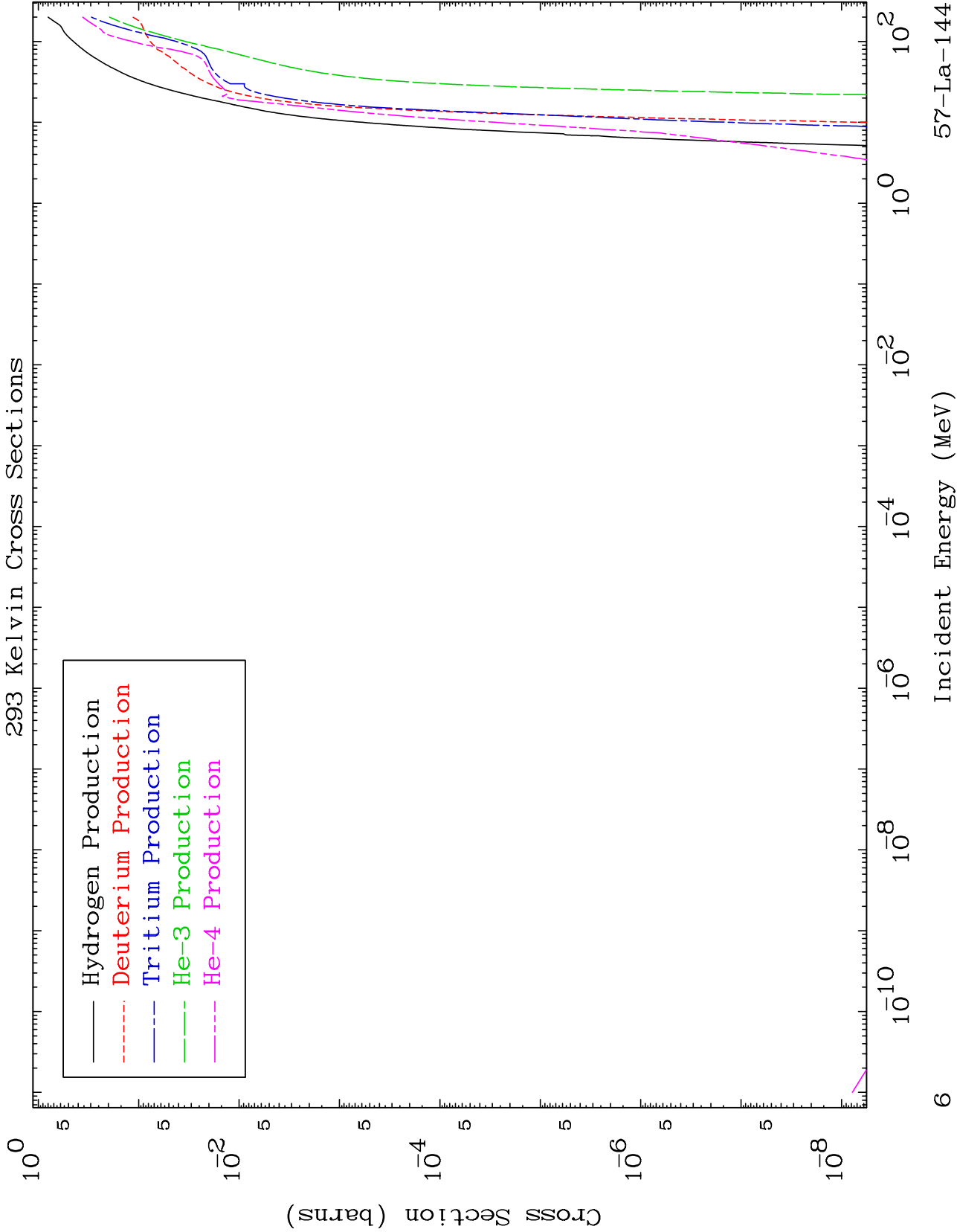
Incident Energy (MeV)

57-La-144

MAT 5743

Particle Production
293 Kelvin Cross Sections

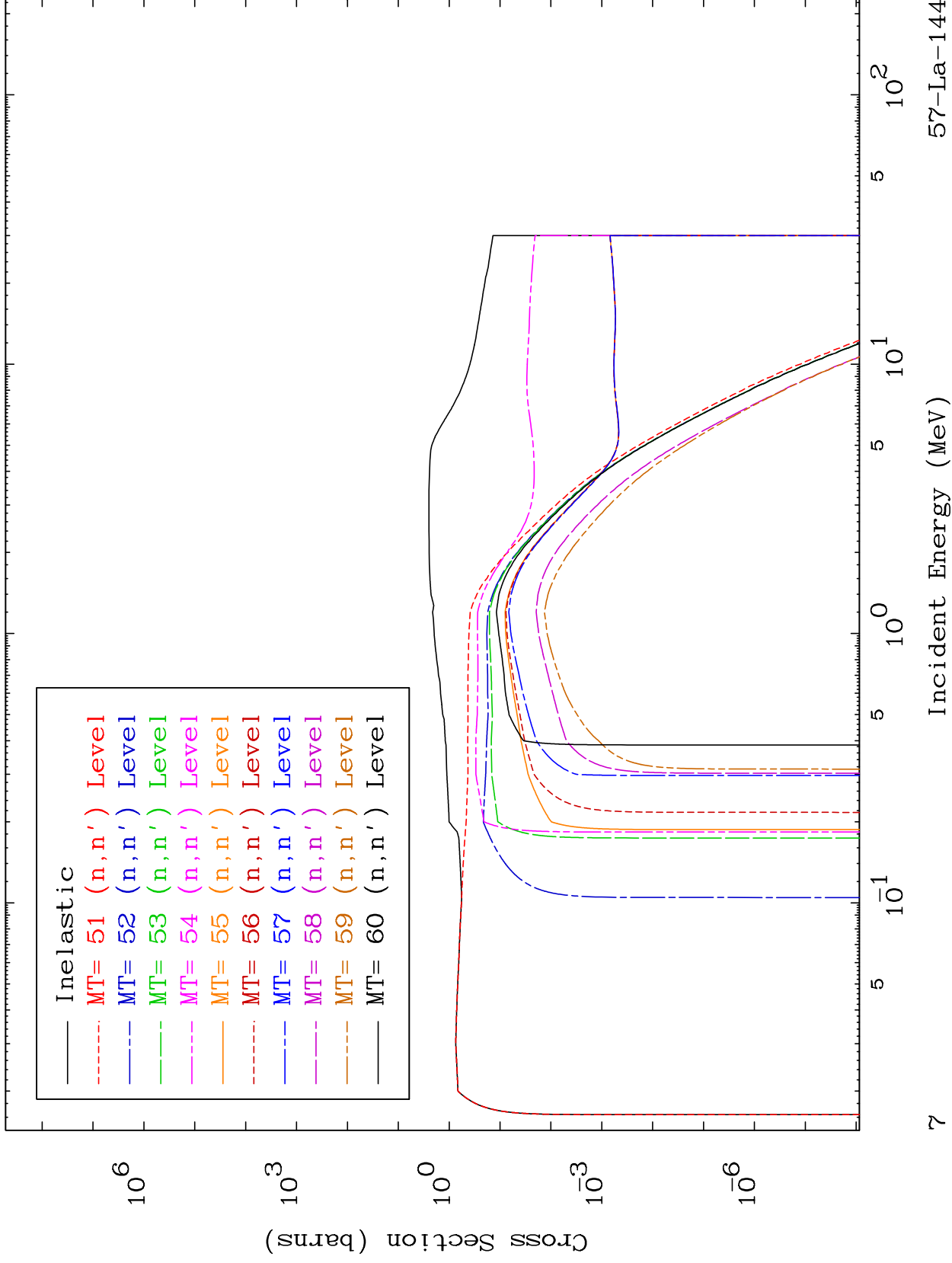
57-La-144



MAT 5743

(n,n') Level
293 Kelvin Cross Sections

57-La-144

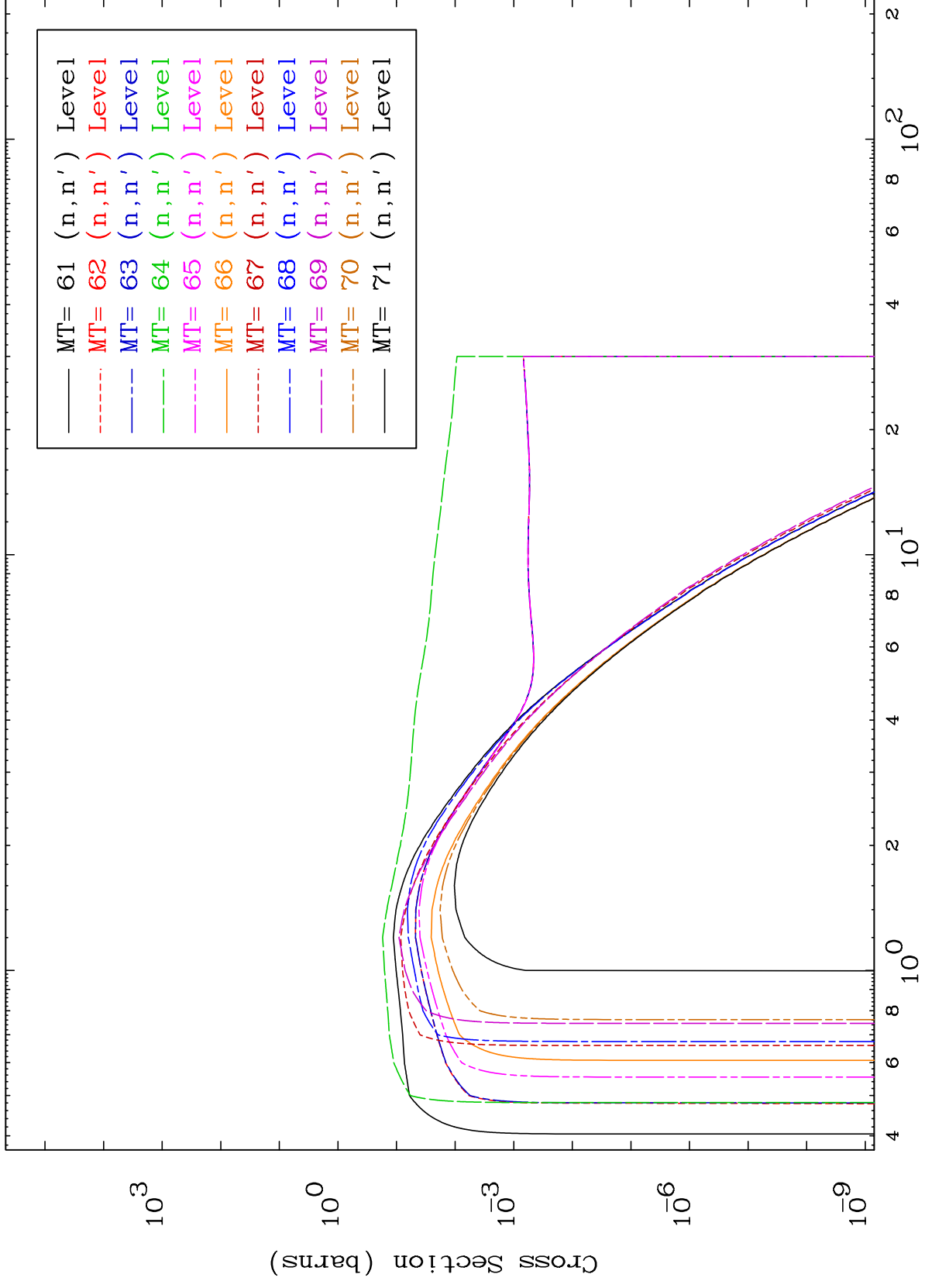


MAT 5743

(n,n') Level

57-La-144

293 Kelvin Cross Sections

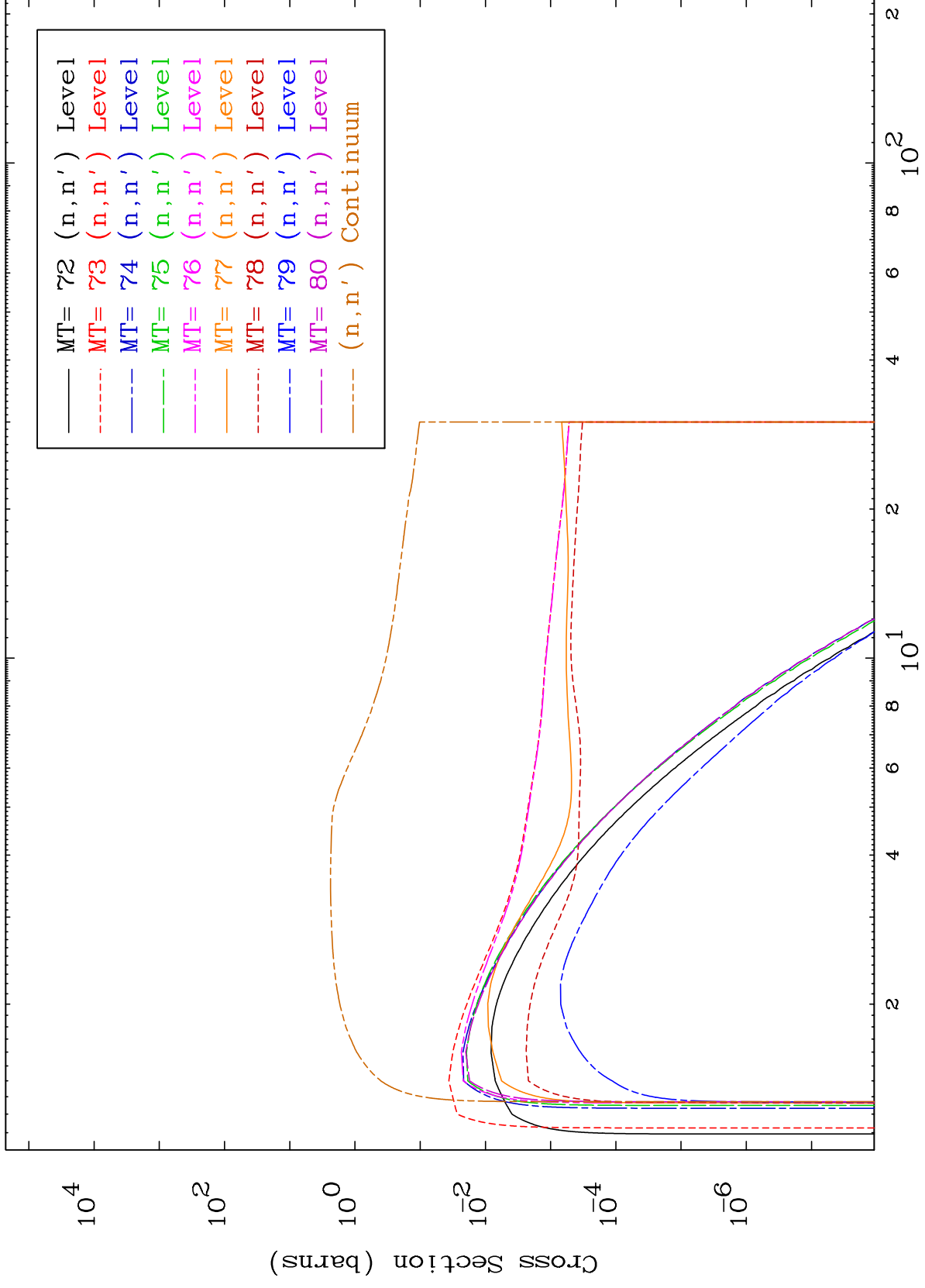


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Incident Energy (MeV)

57-La-144

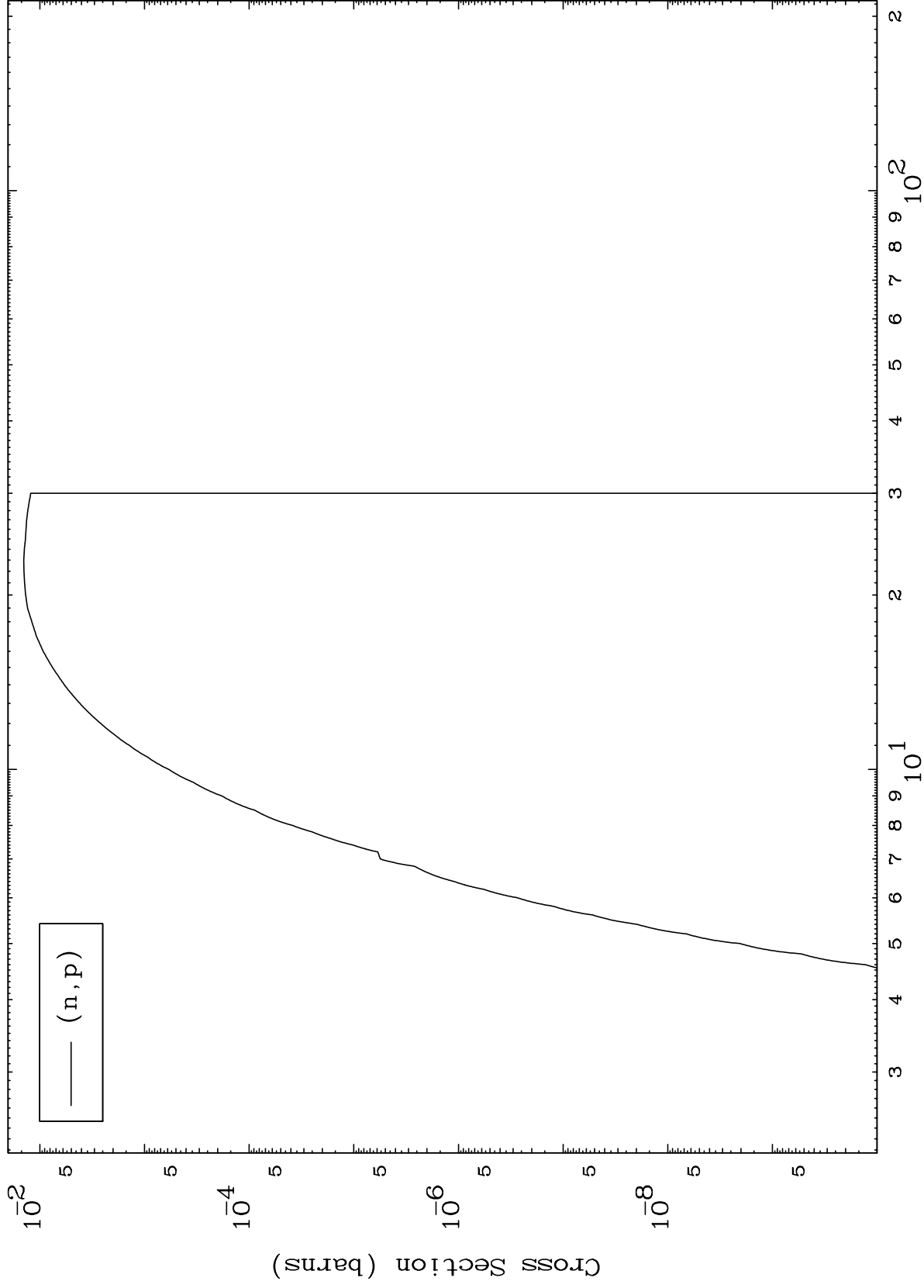
293 Kelvin Cross Sections



MAT 5743

(n,p) Levels
293 Kelvin Cross Sections

57-La-144



10

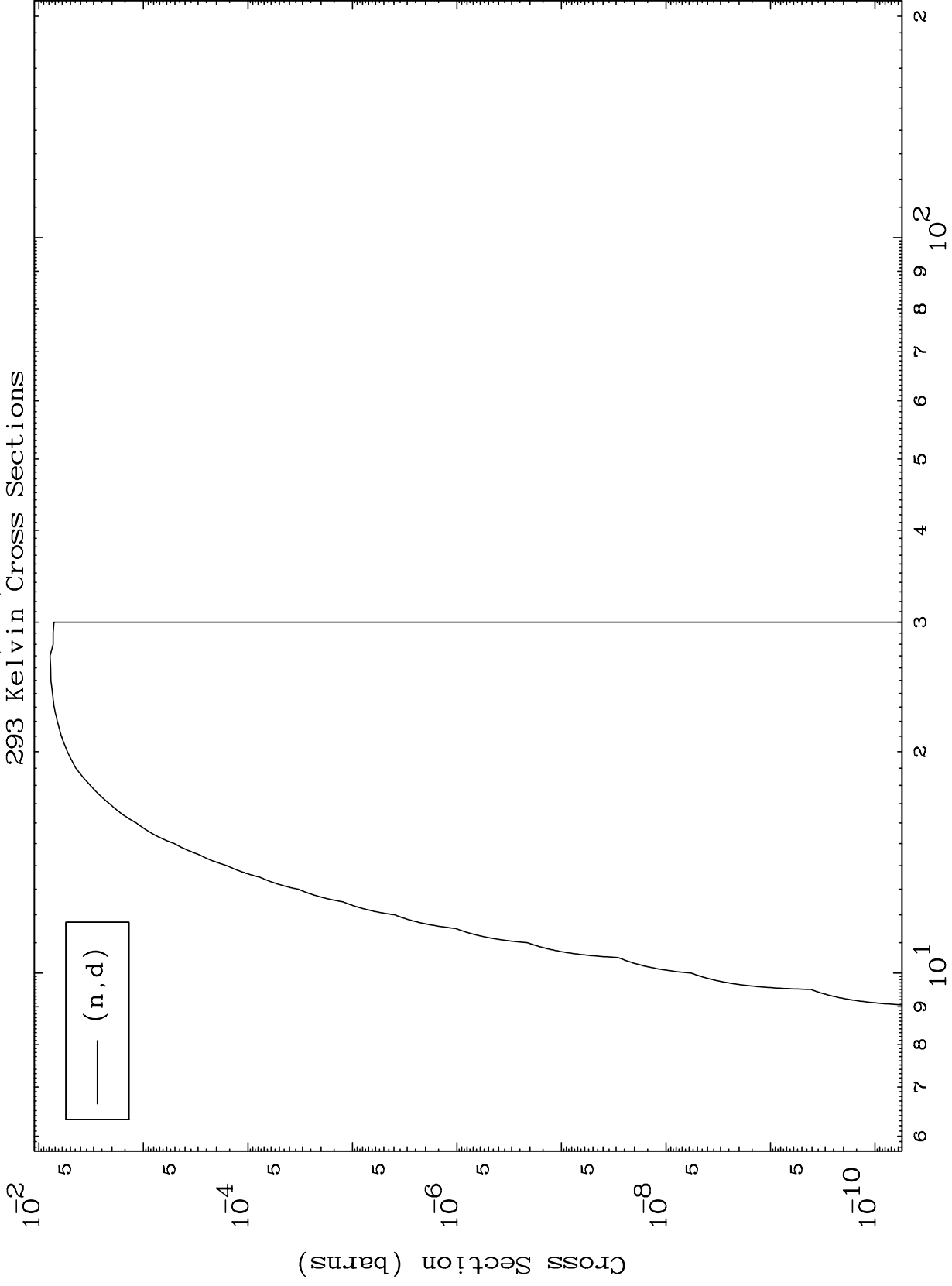
Incident Energy (MeV)

57-La-144

MAT 5743

(n,d) Levels
293 Kelvin Cross Sections

57-La-144



11

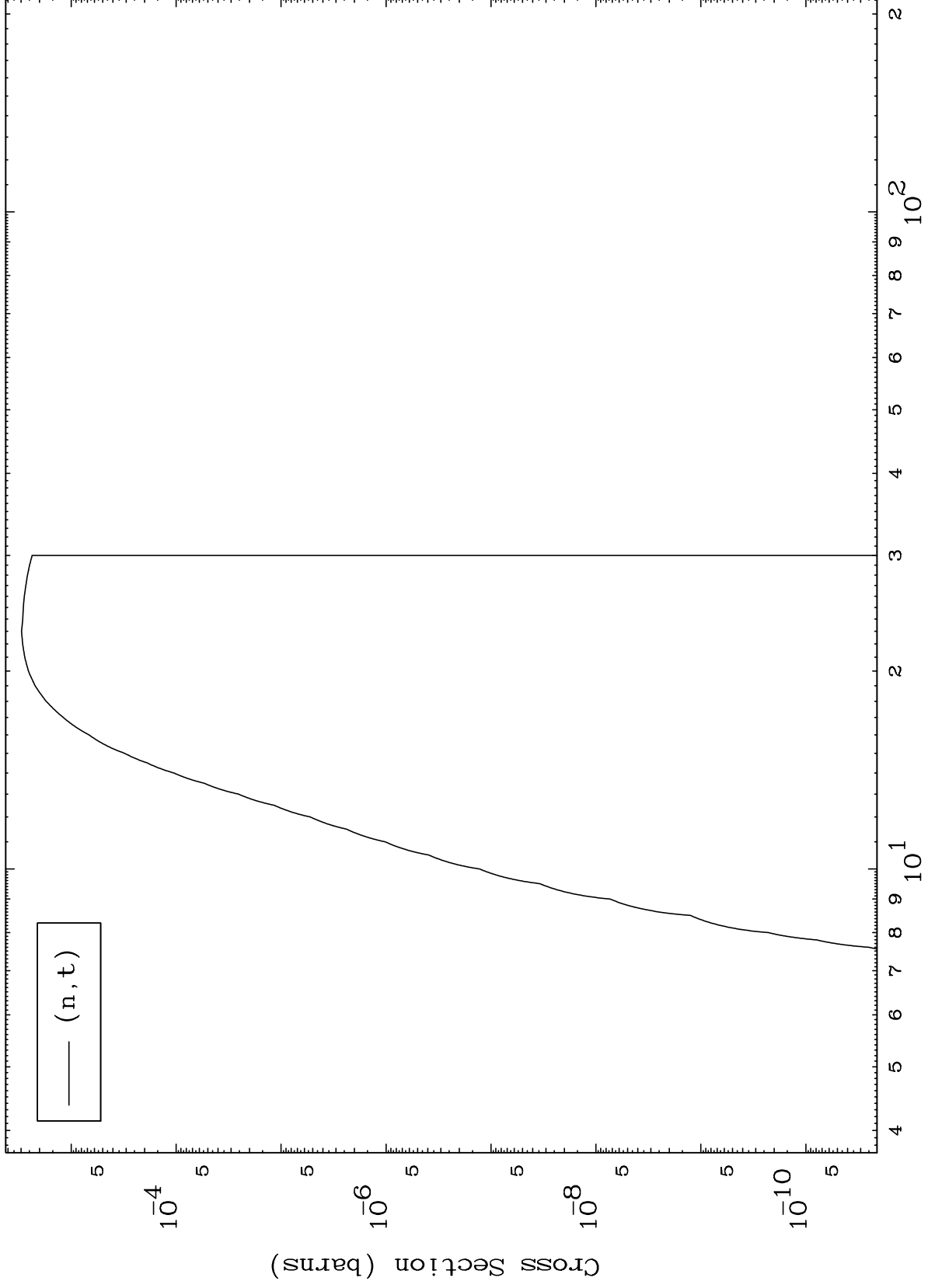
Incident Energy (MeV)

57-La-144

MAT 5743

(n,t) Levels
293 Kelvin Cross Sections

57-La-144



12

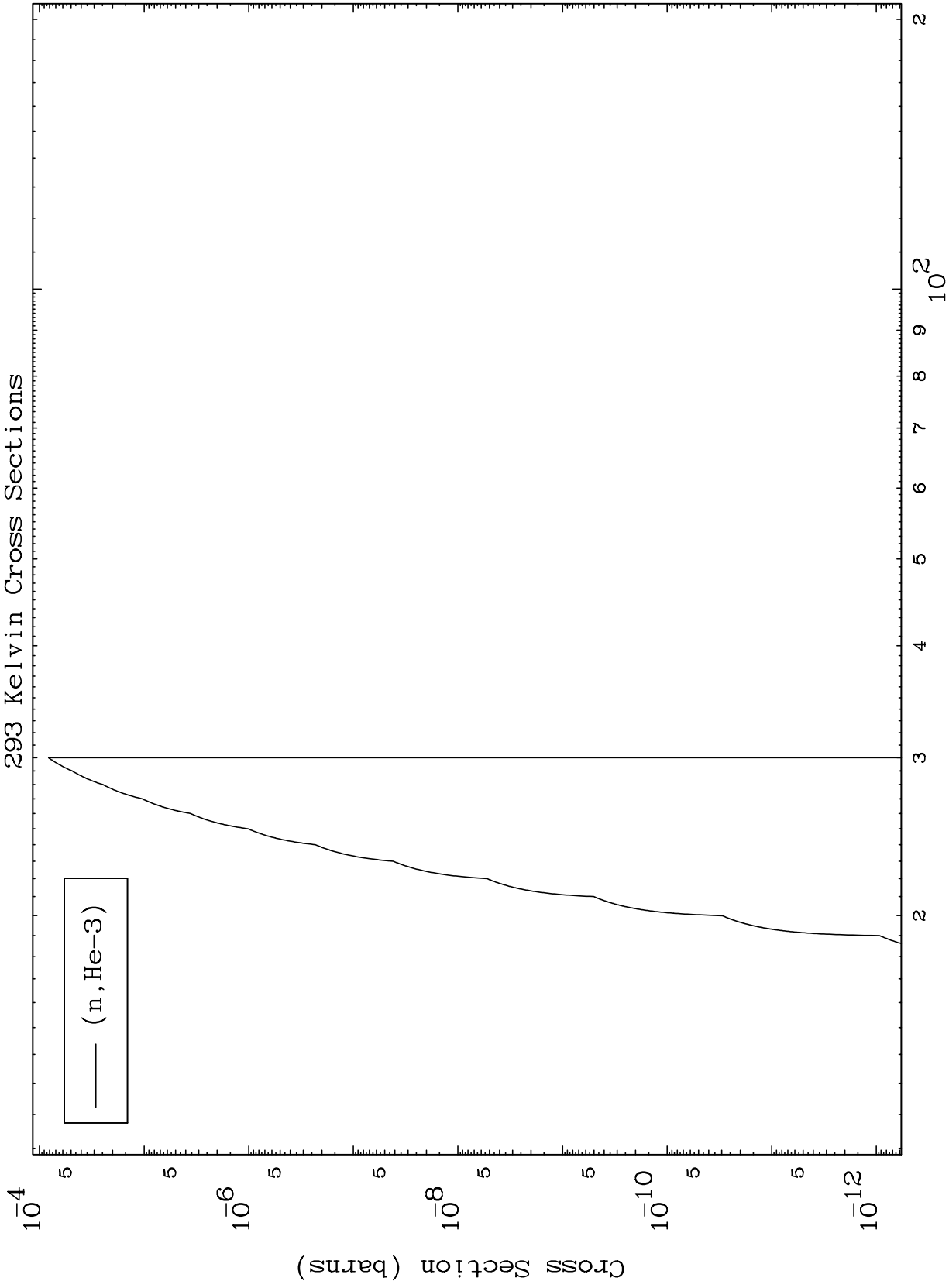
Incident Energy (MeV)

57-La-144

MAT 5743

(n,He3) Levels
293 Kelvin Cross Sections

57-La-144



13

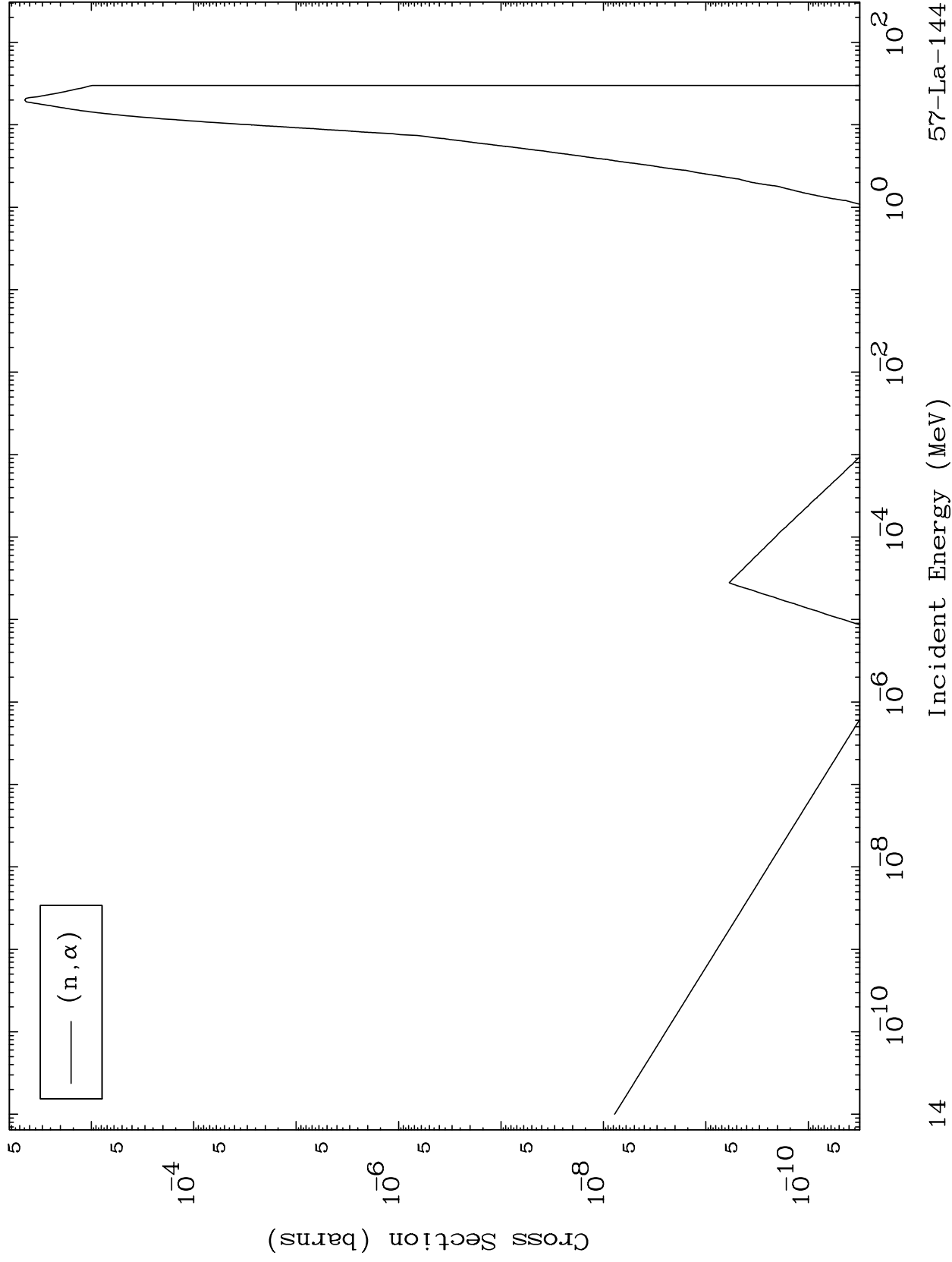
Incident Energy (MeV)

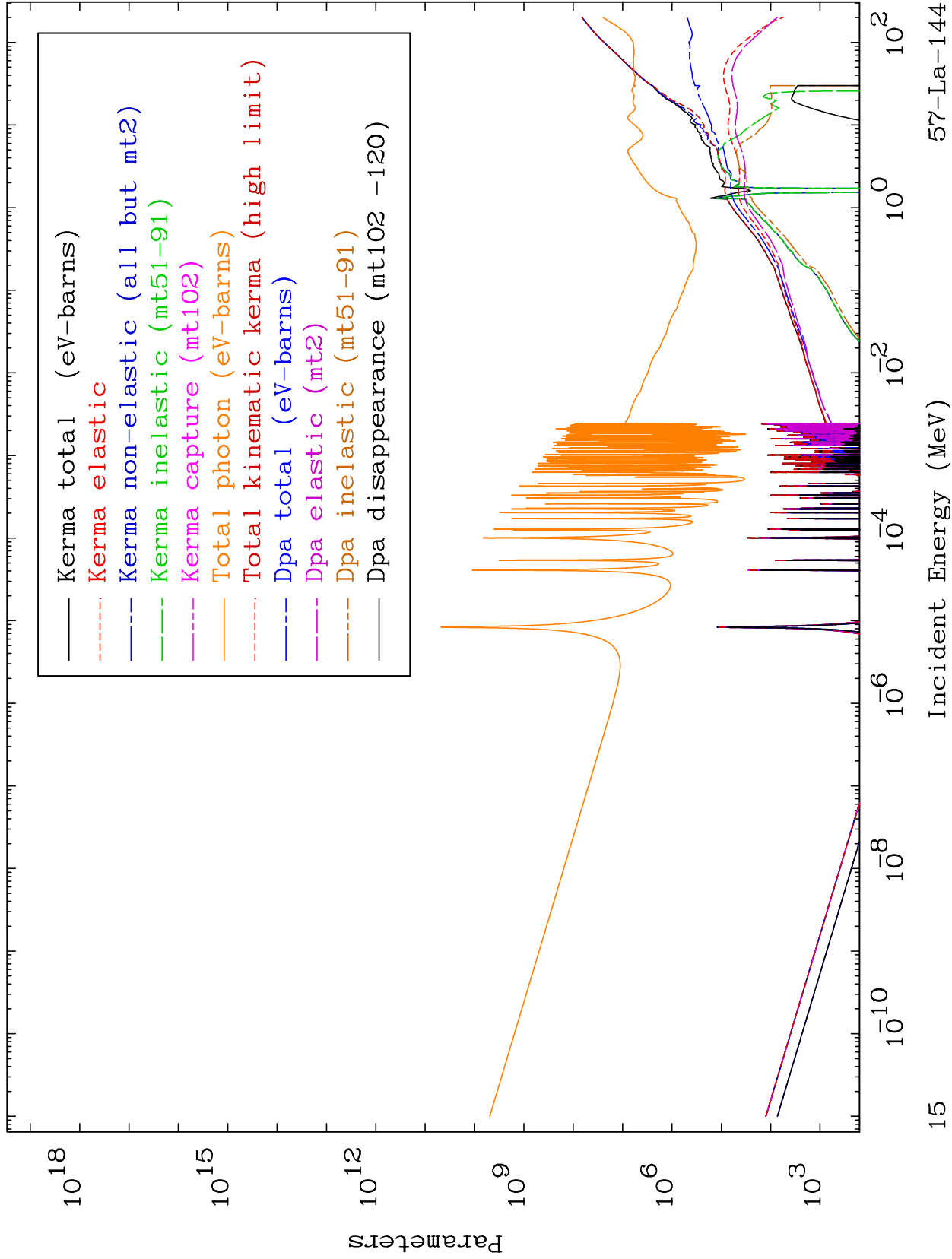
57-La-144

MAT 5743

(n, α) Levels
293 Kelvin Cross Sections

57-La-144

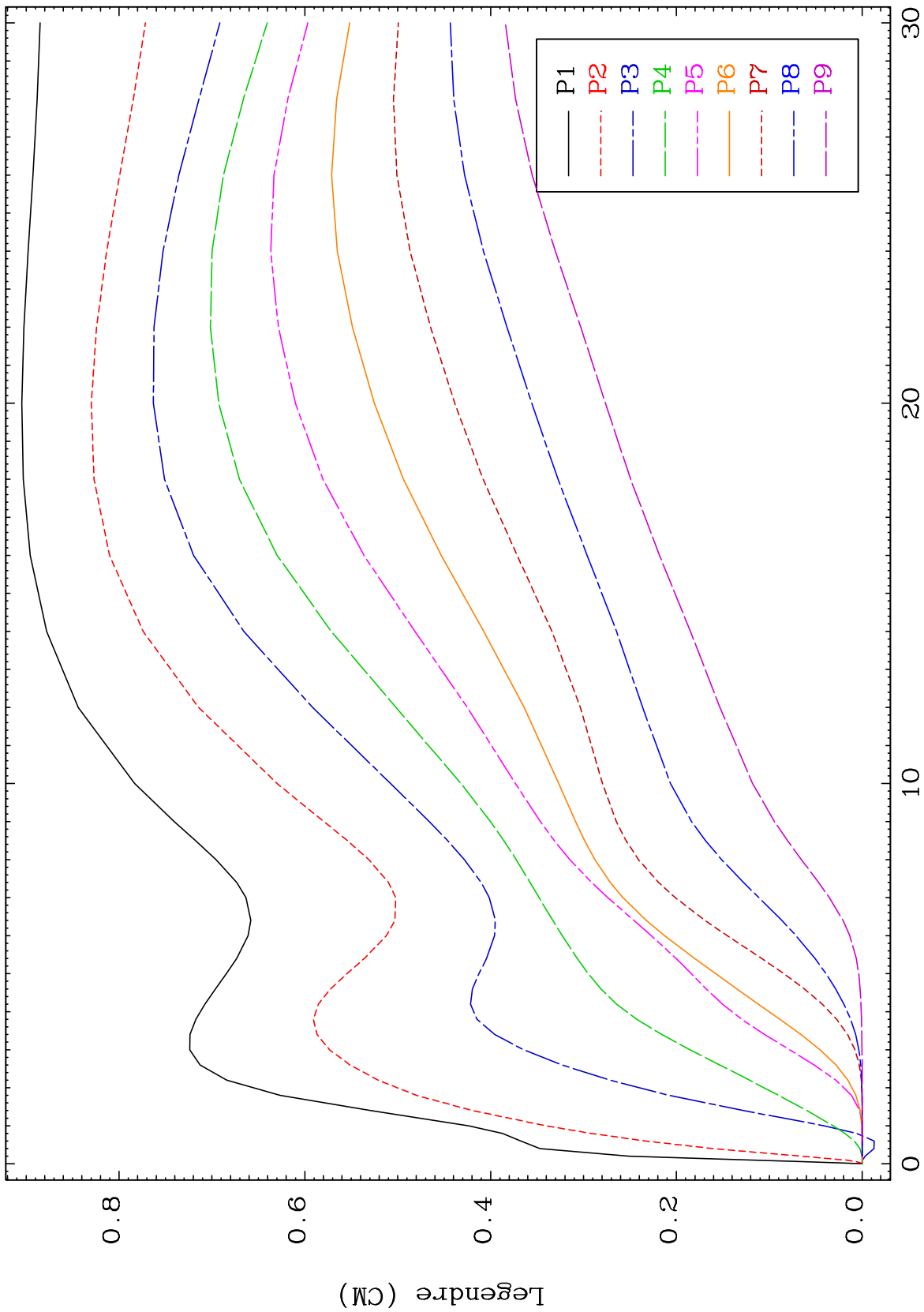




MAT 5743

57-La-144

Elastic Legendre Coefficients



57-La-144

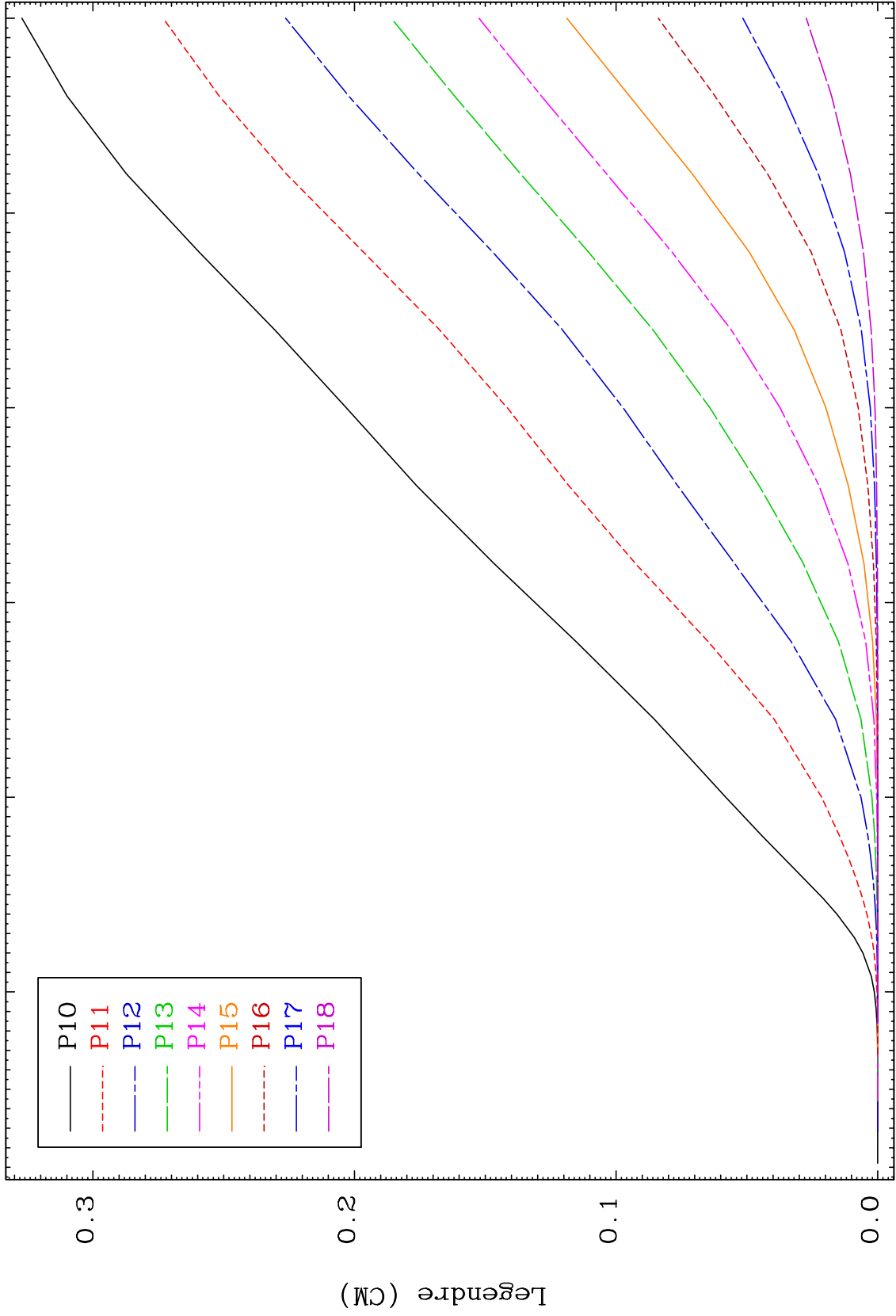
Incident Energy (MeV)

16

MAT 5743

Elastic Legendre Coefficients

57-La-144



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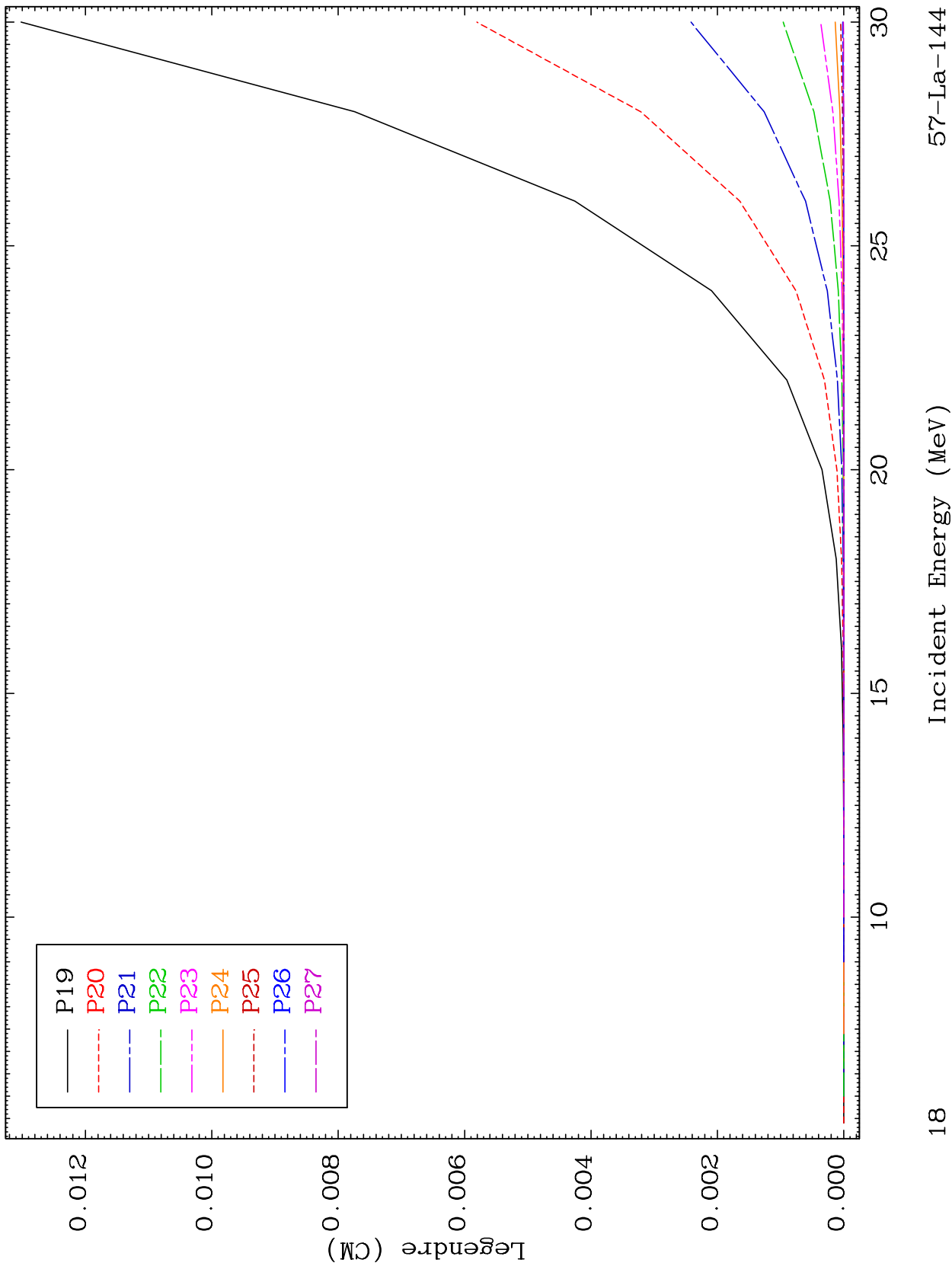
Incident Energy (MeV)

57-La-144

MAT 5743

Elastic Legendre Coefficients

57-La-144



18

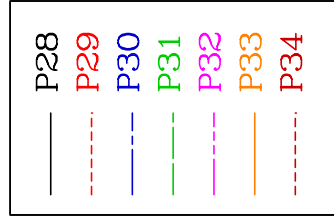
Incident Energy (MeV)

57-La-144

MAT 5743

Elastic
Legendre Coefficients

57-La-144



$\times 10^{-6}$

Legendre (CM)

1.0

0.5

0.0

10

15

20

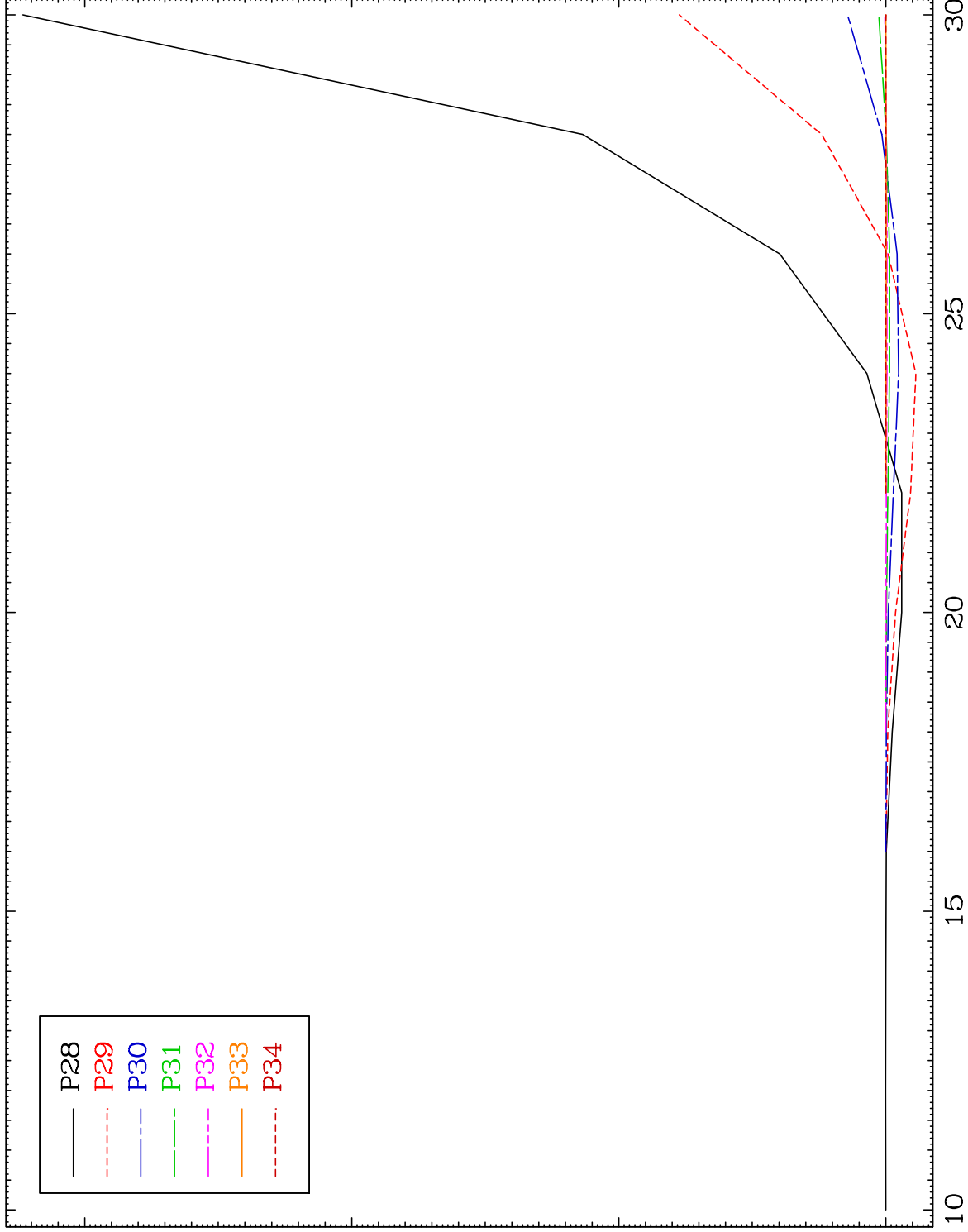
25

30

19

Incident Energy (MeV)

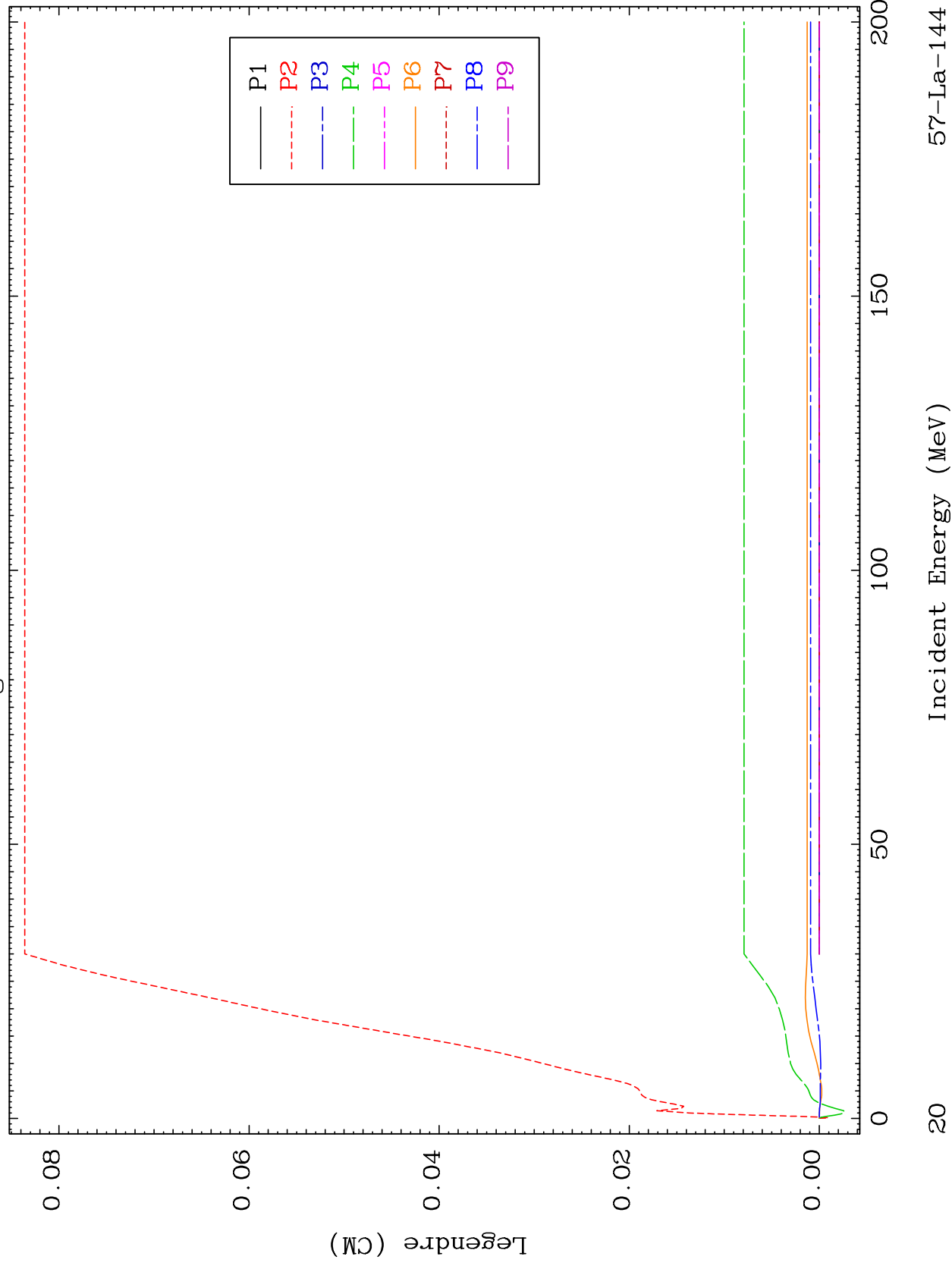
57-La-144



MAT 5743

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

57-La-144

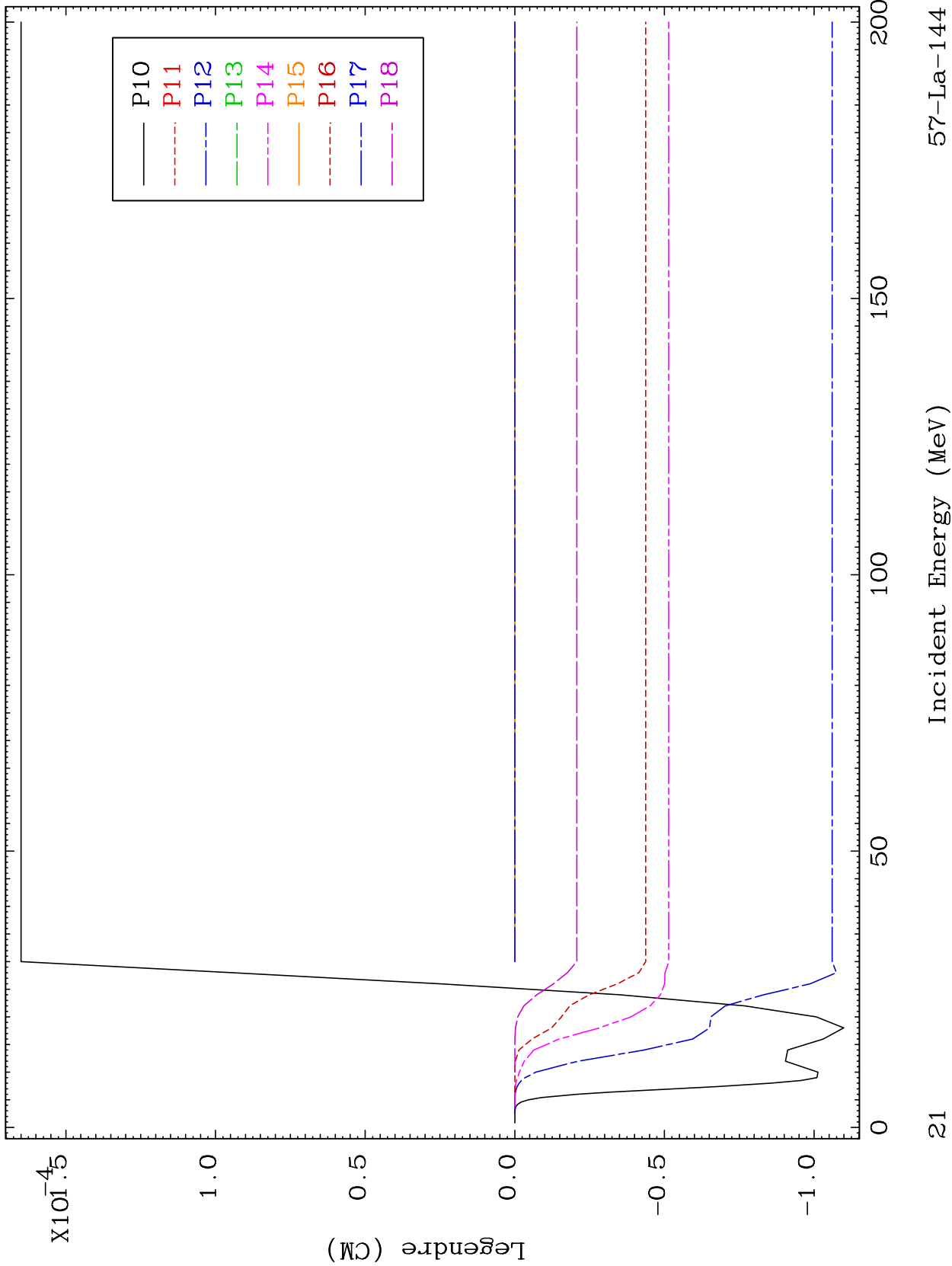


57-La-144

MAT 5743

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

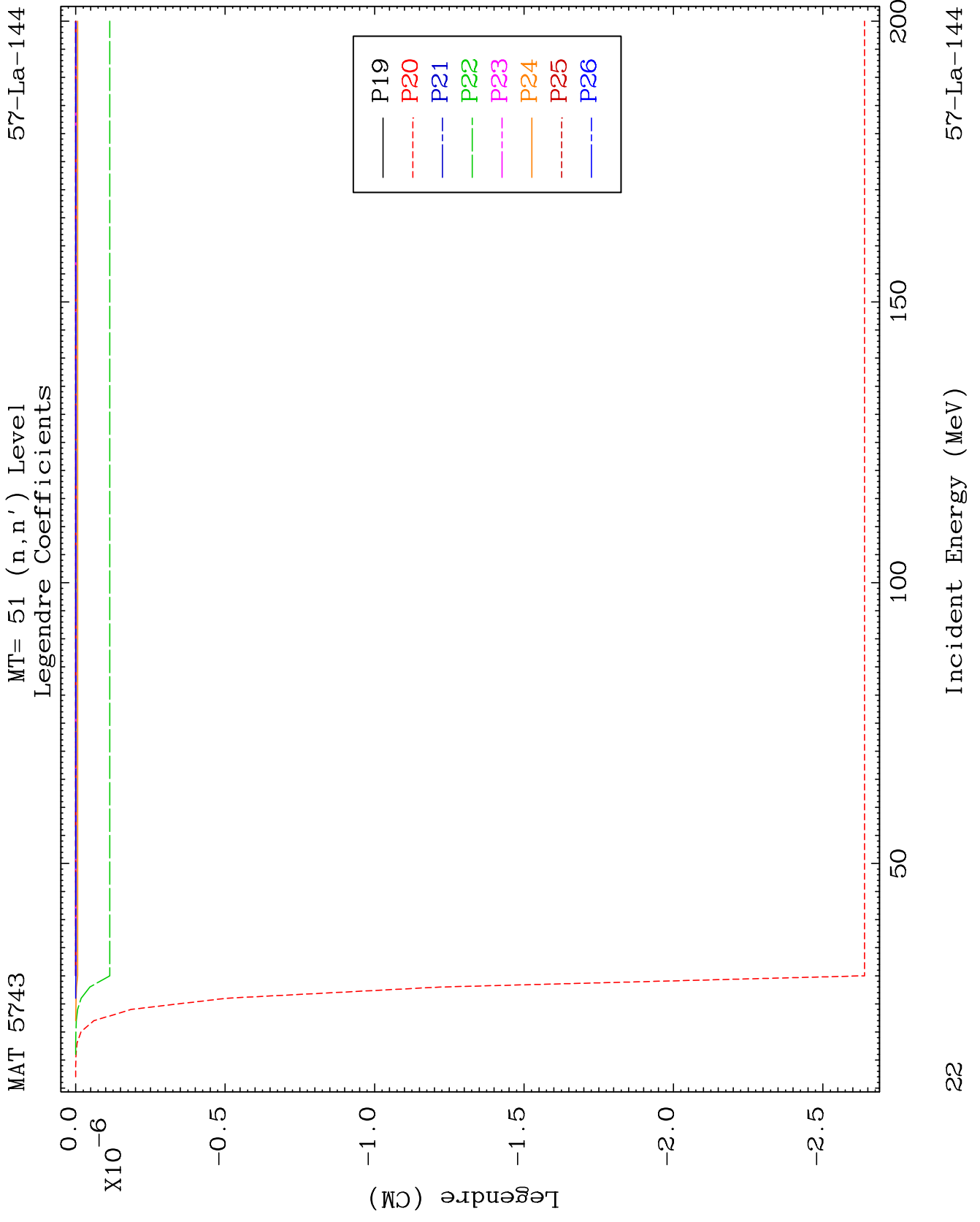
57-La-144



21

Incident Energy (MeV)

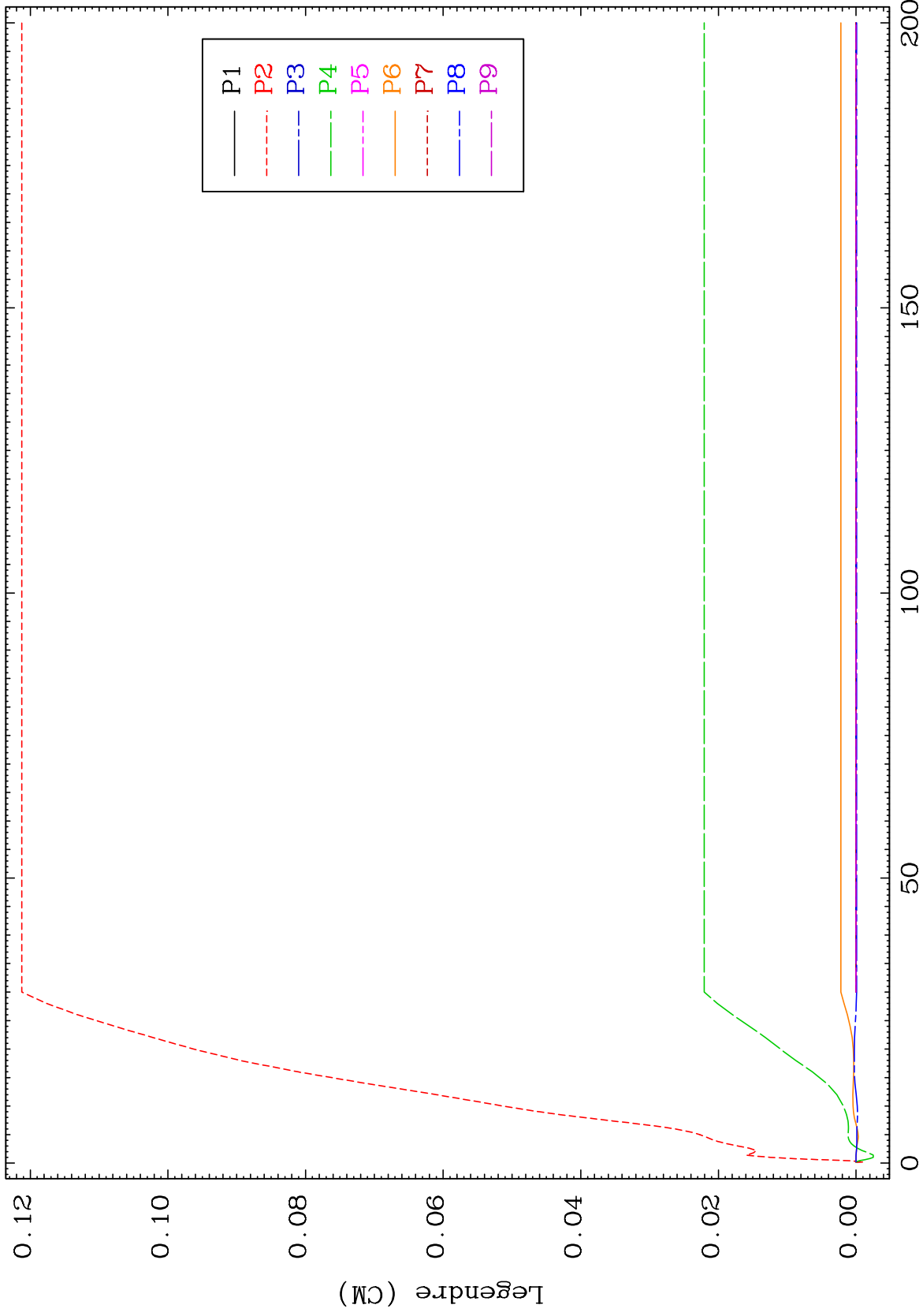
57-La-144



MAT 5743

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

57-La-144



23

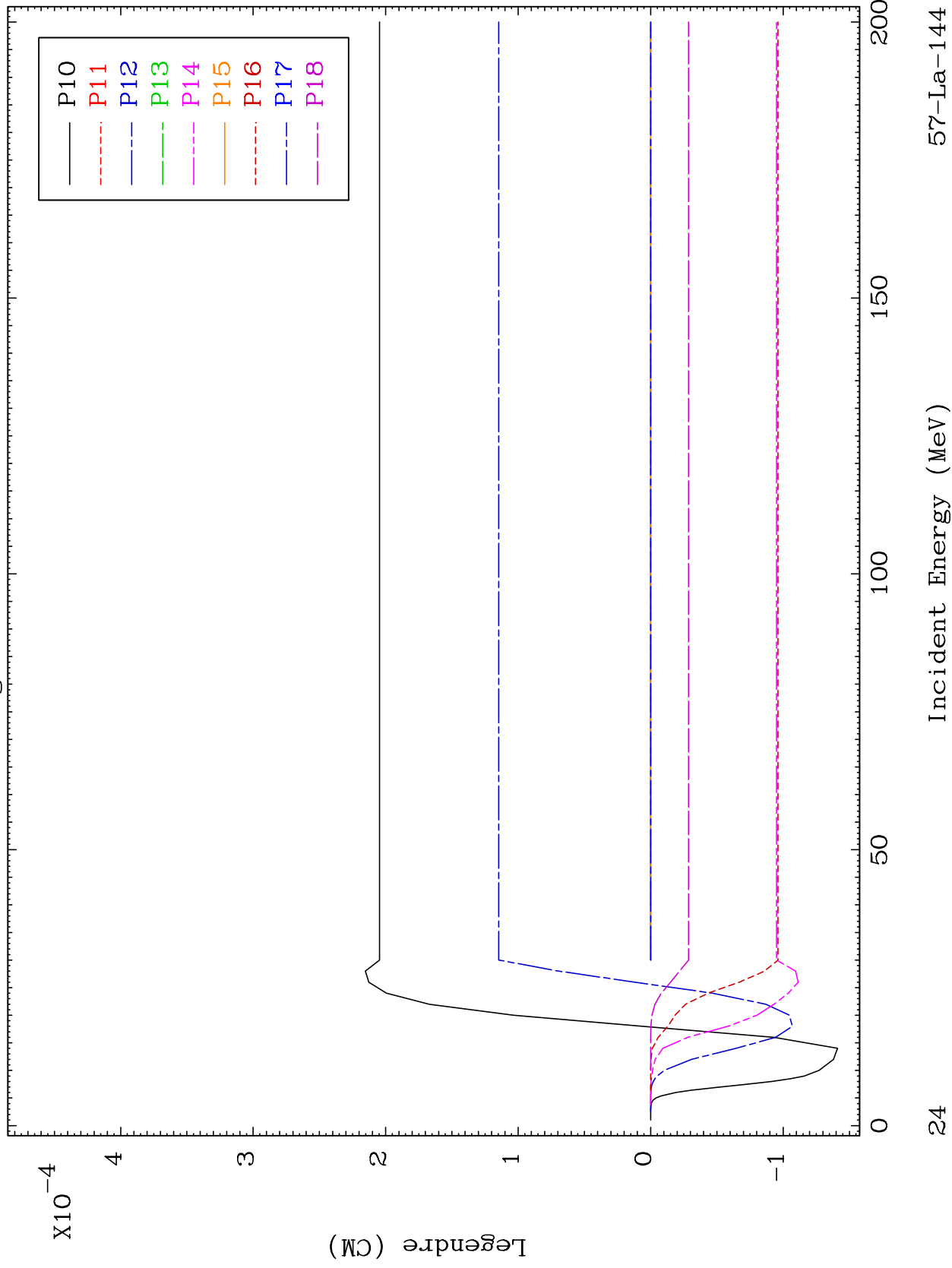
Incident Energy (MeV)

57-La-144

MAT 5743

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

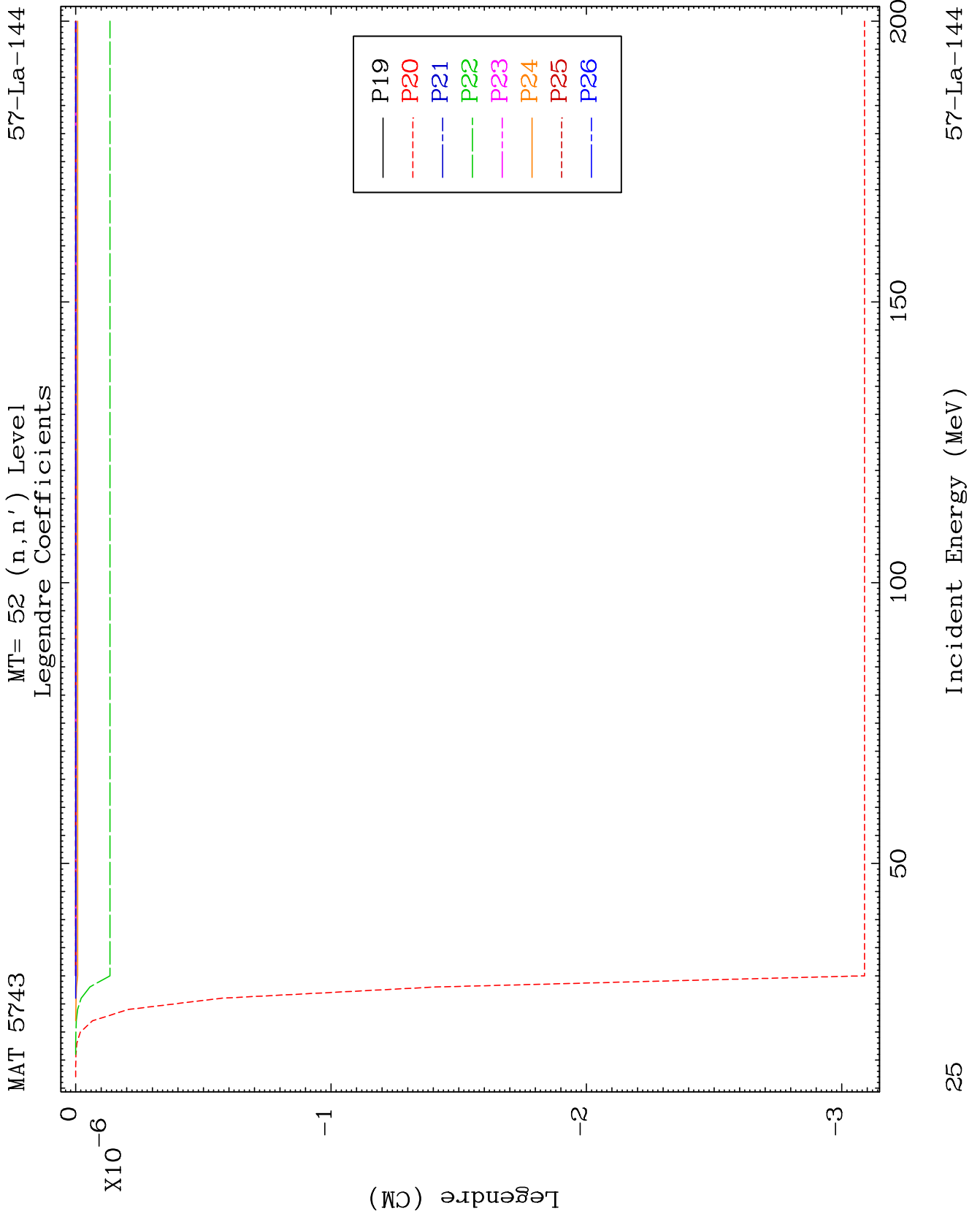
57-La-144



57-La-144

Incident Energy (MeV)

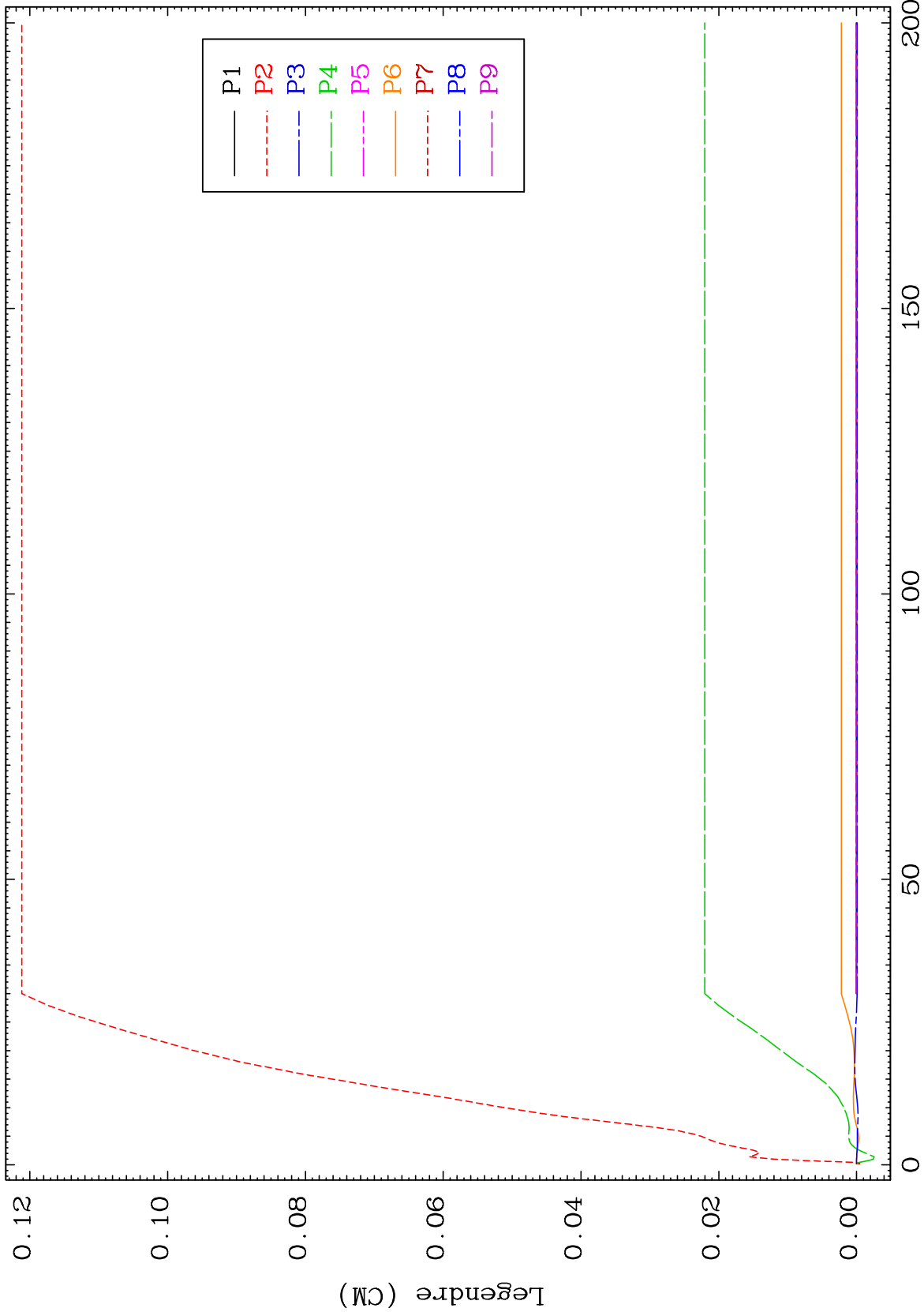
24



MAT 5743

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

57-La-144



26

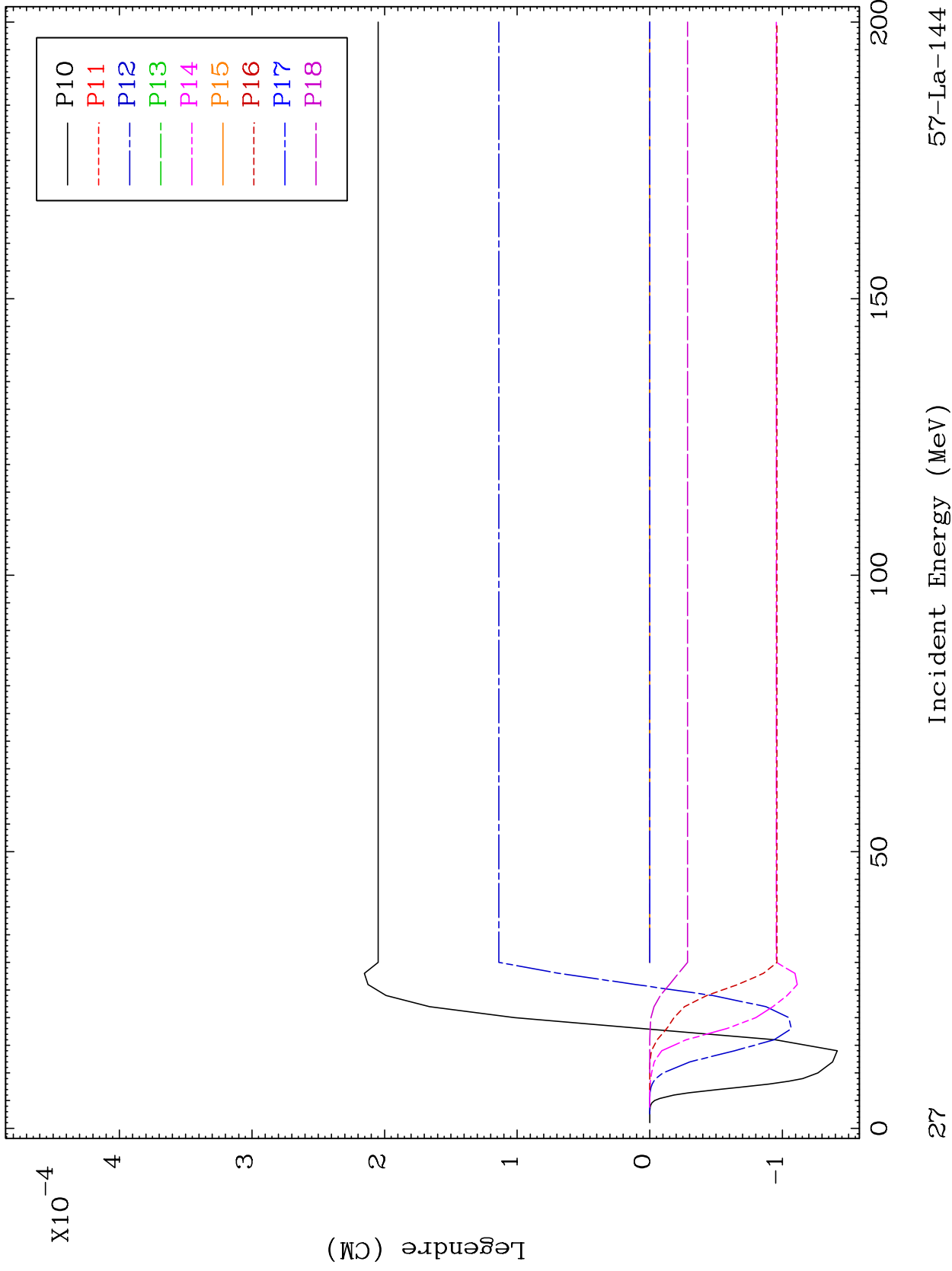
Incident Energy (MeV)

57-La-144

MAT 5743

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

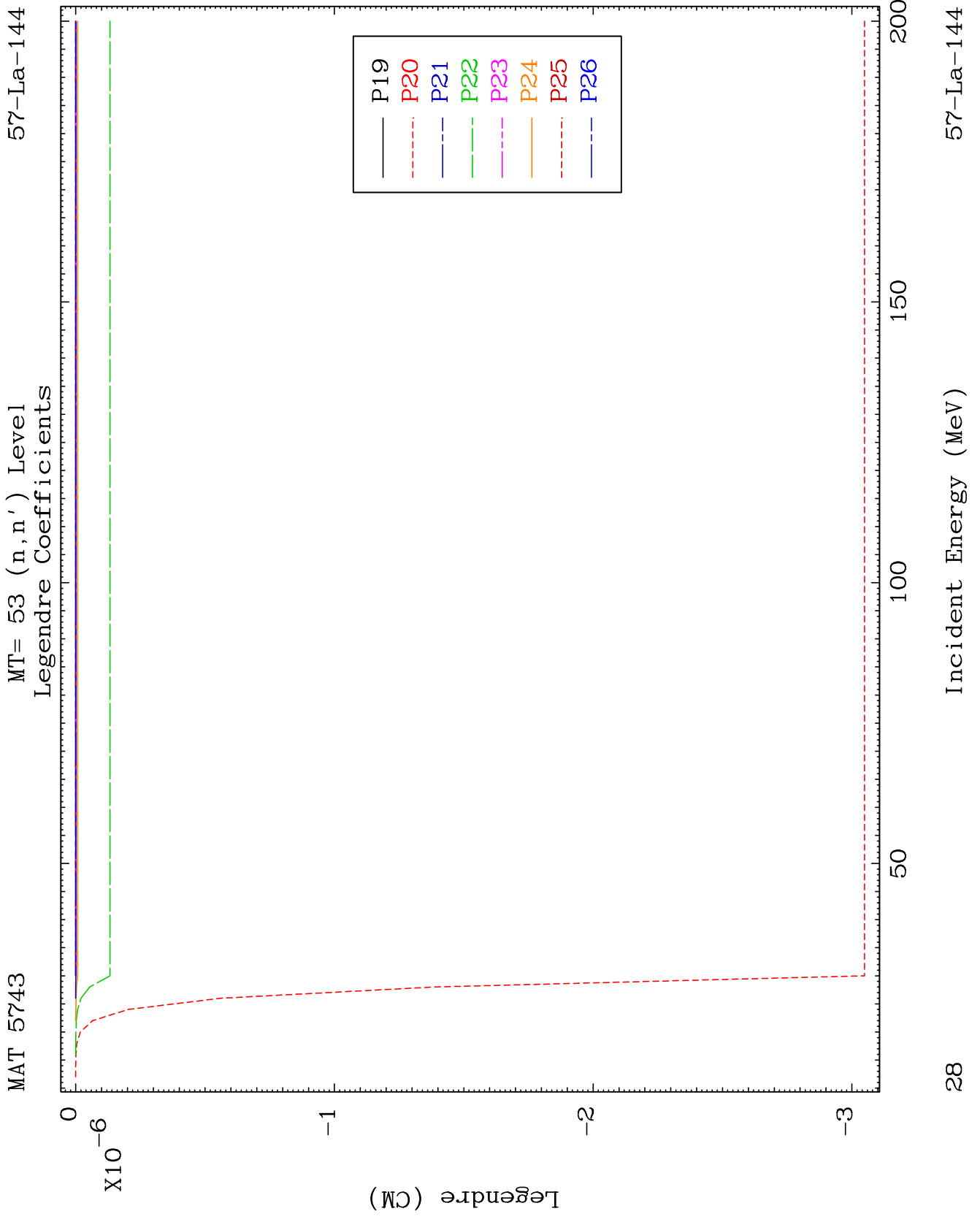
57-La-144



57-La-144

Incident Energy (MeV)

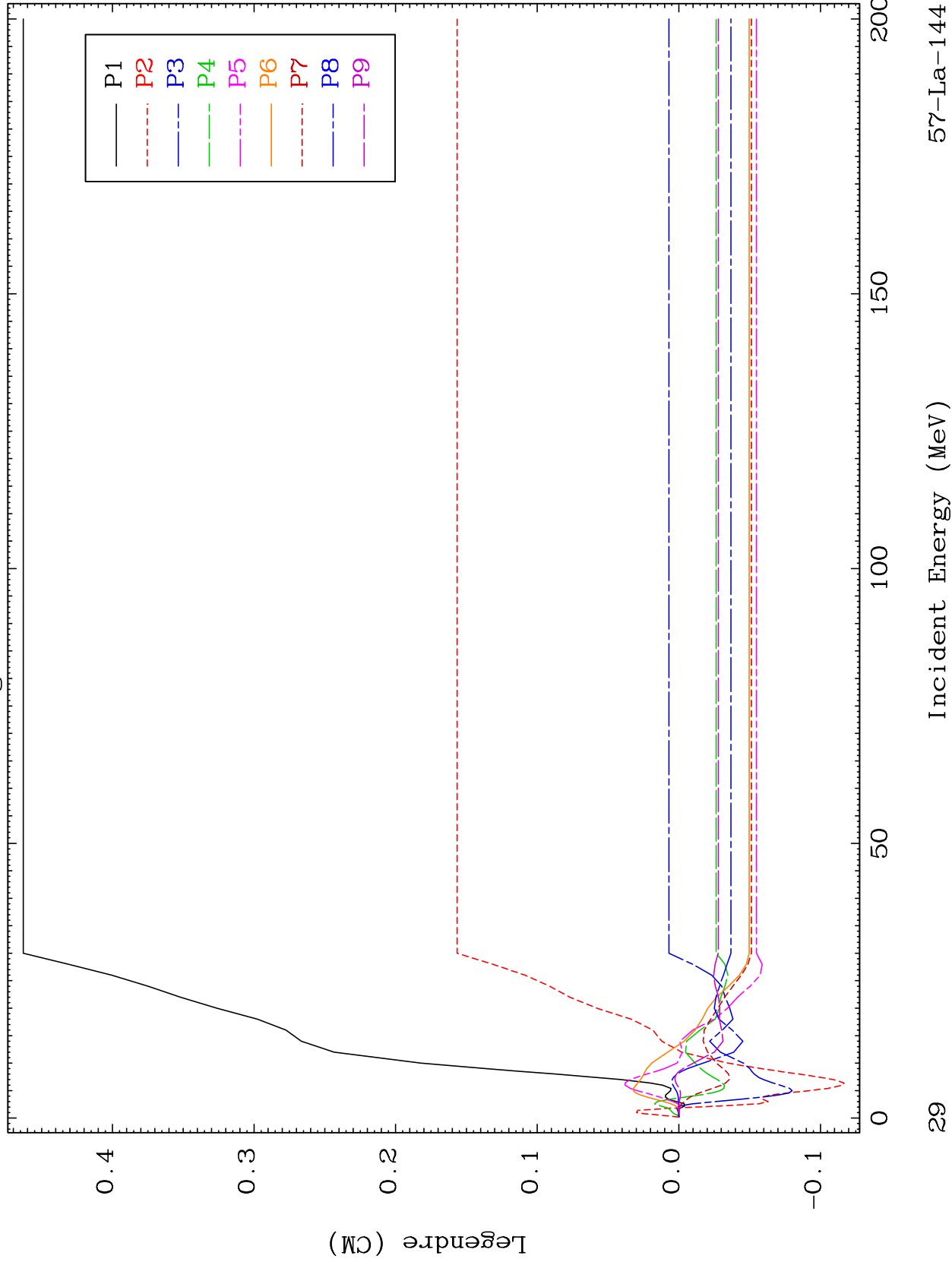
27



MAT 5743

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

57-La-144



57-La-144

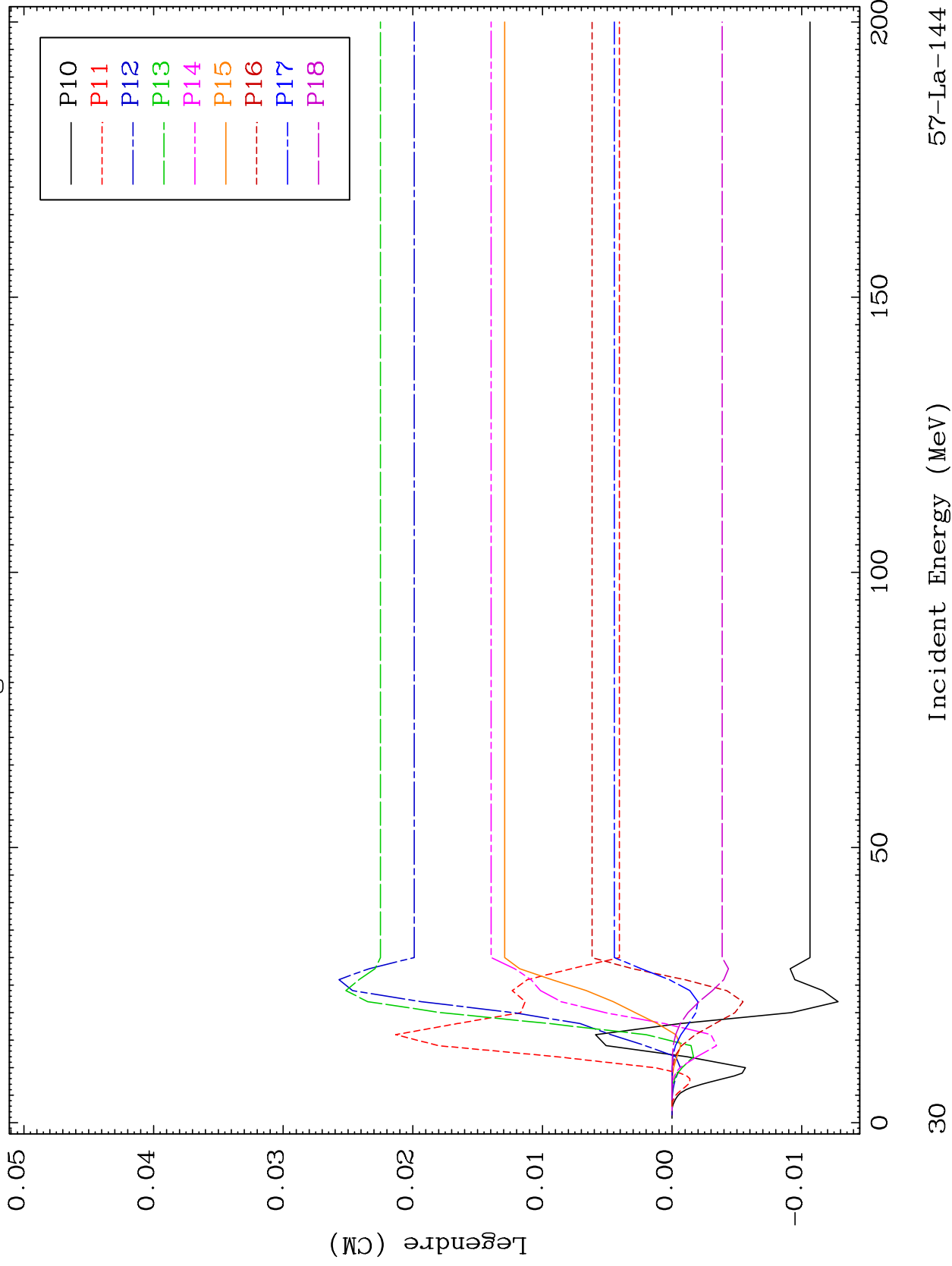
Incident Energy (MeV)

29

MAT 5743

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

57-La-144



57-La-144

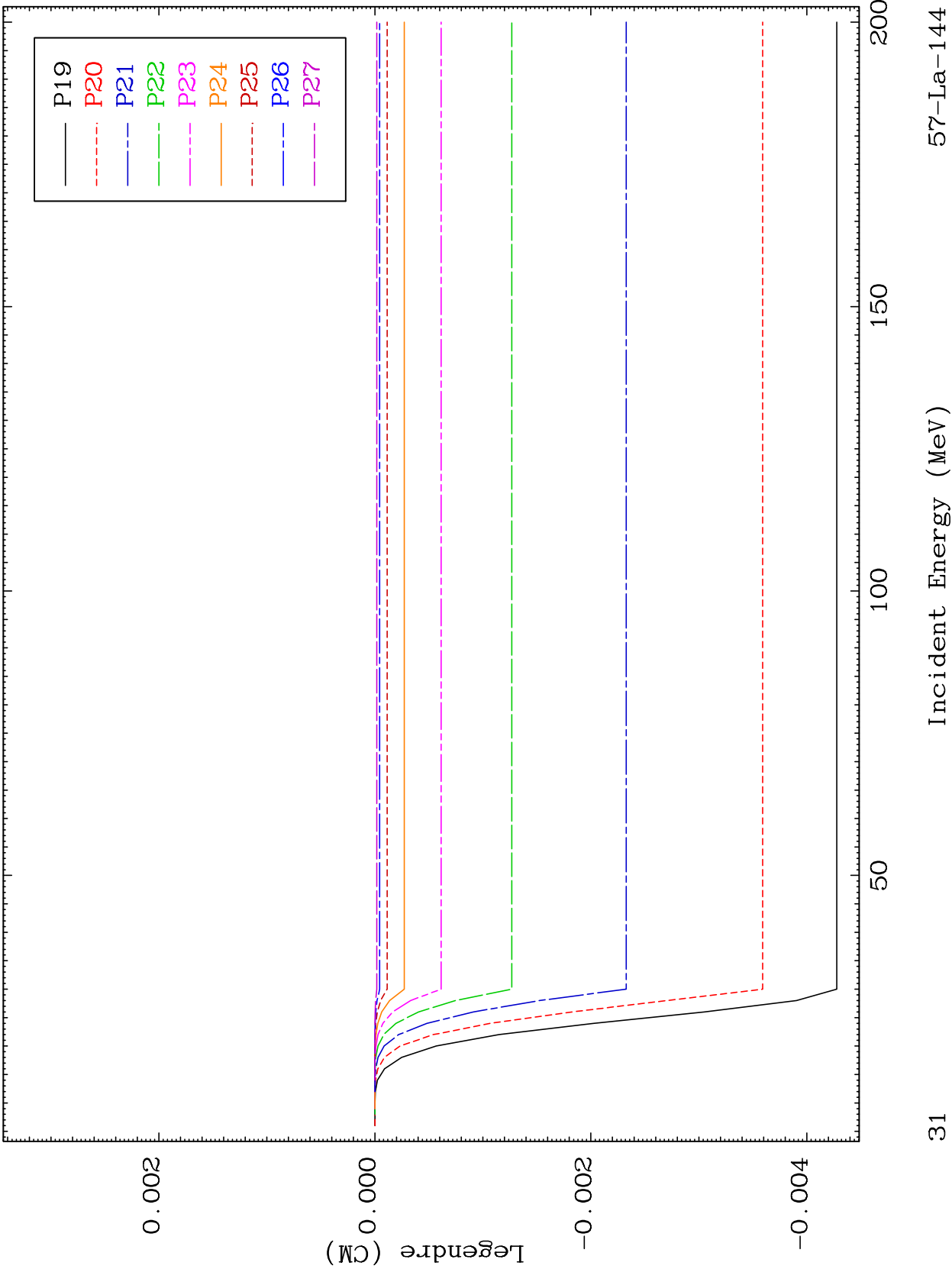
Incident Energy (MeV)

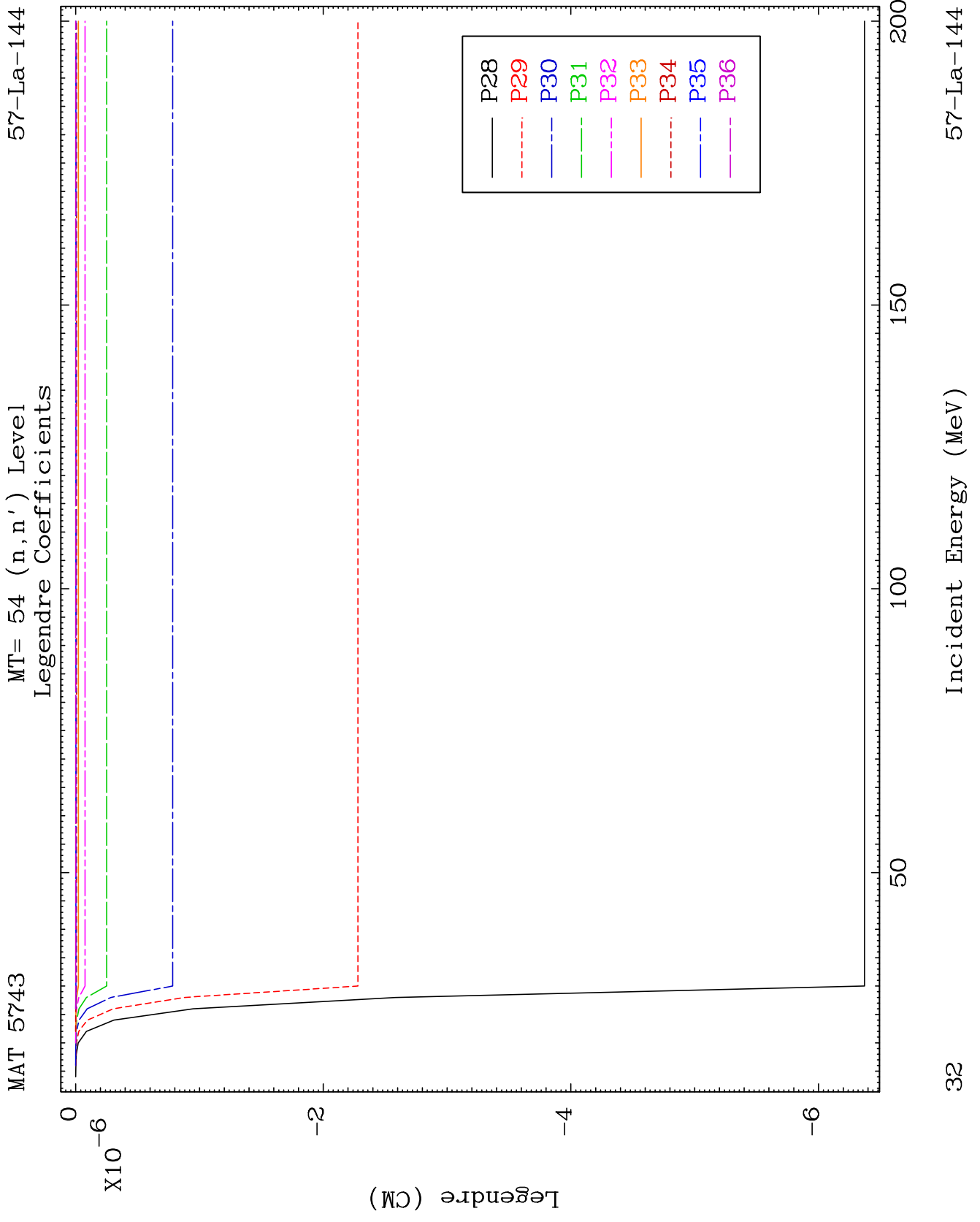
30

MAT 5743

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

57-La-144

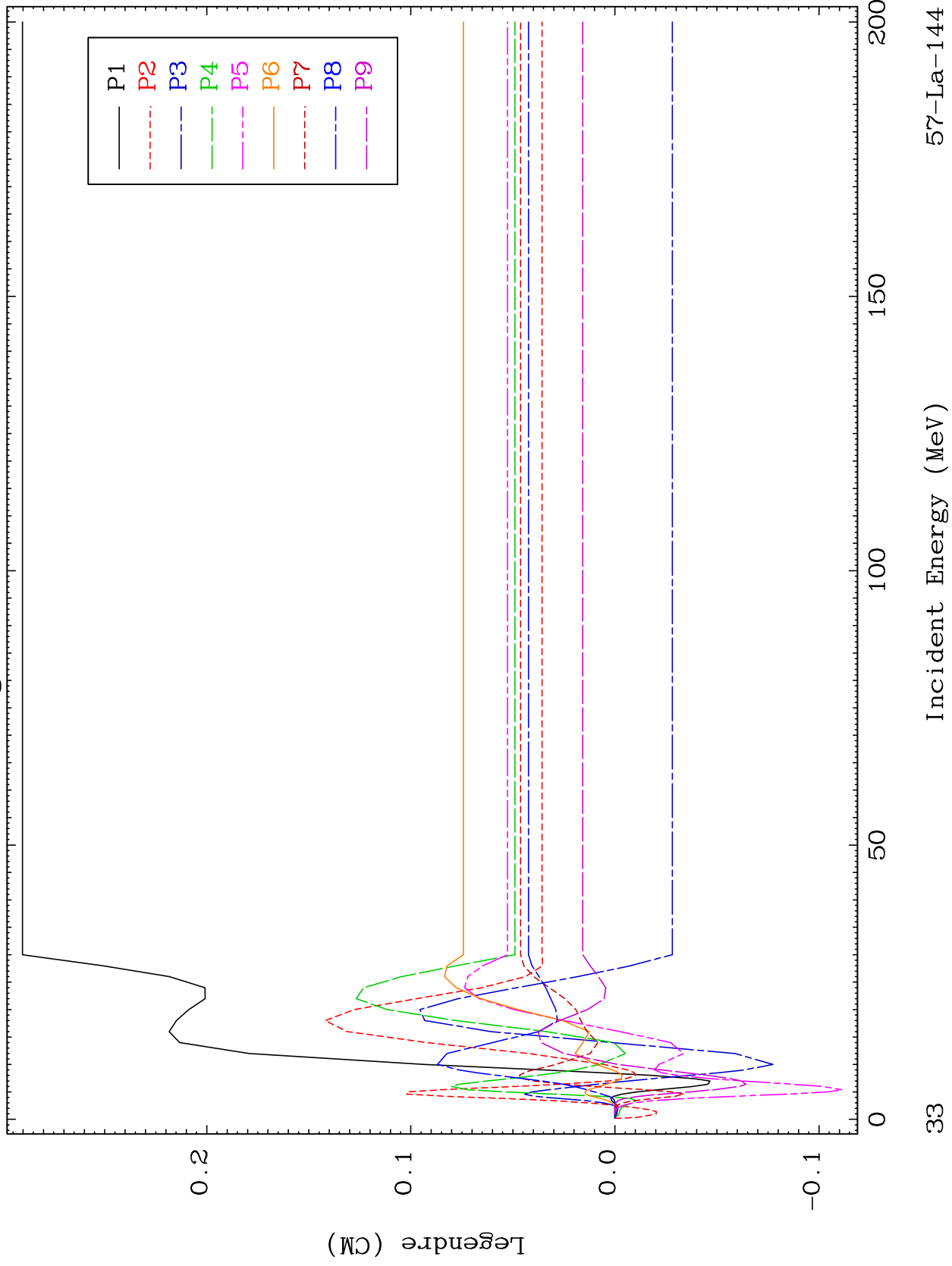




MAT 5743

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

57-La-144



33

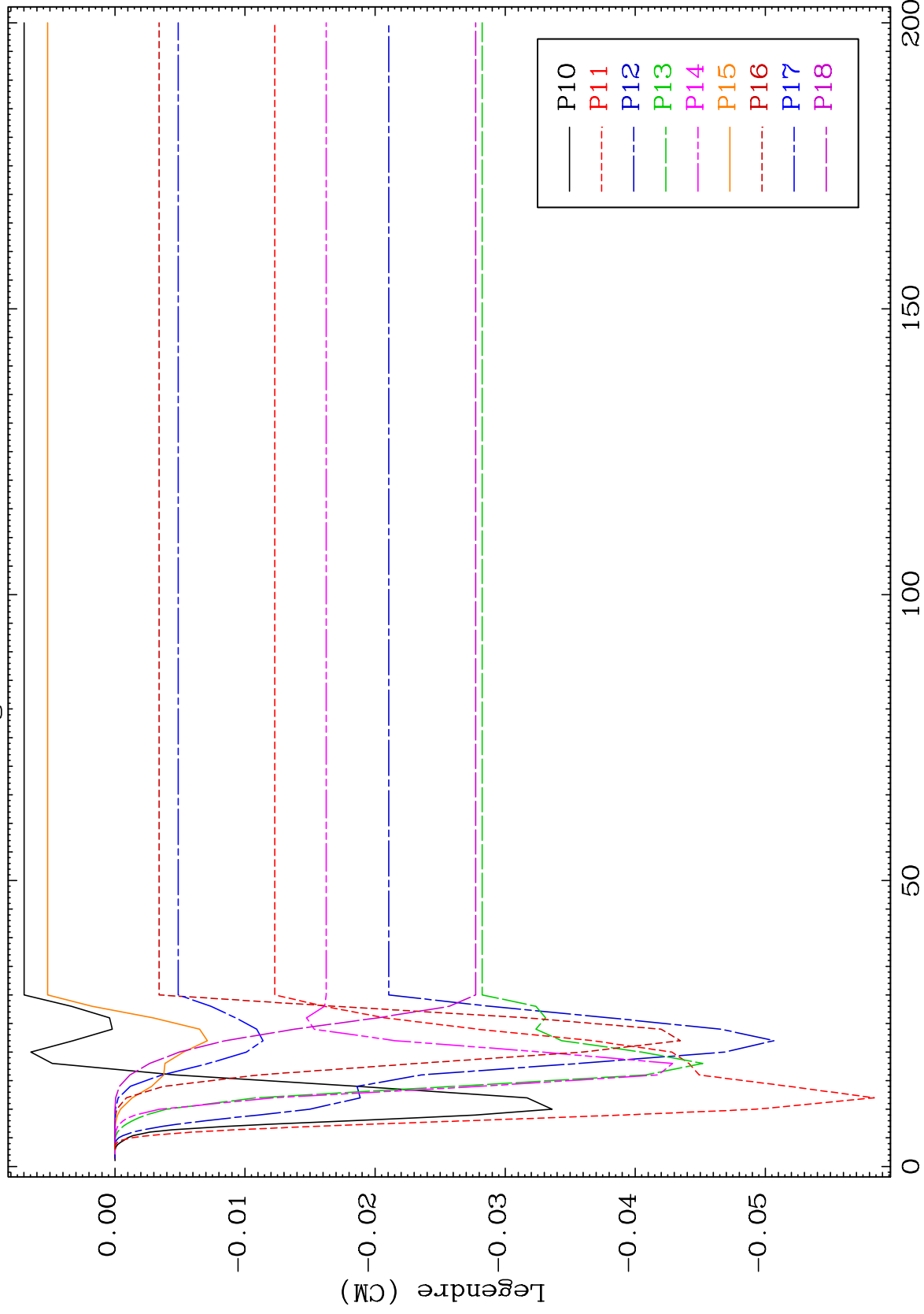
Incident Energy (MeV)

57-La-144

MAT 5743

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

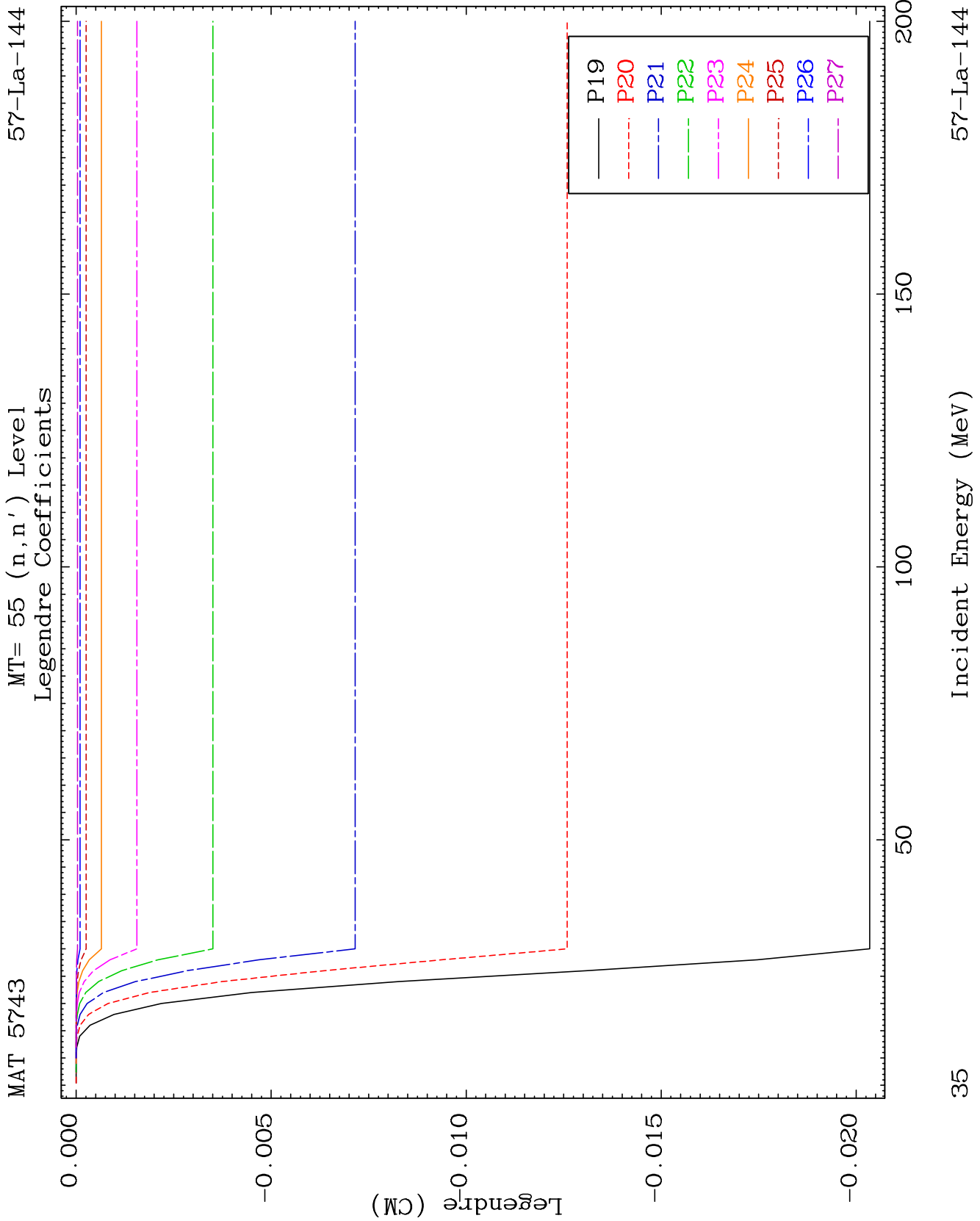
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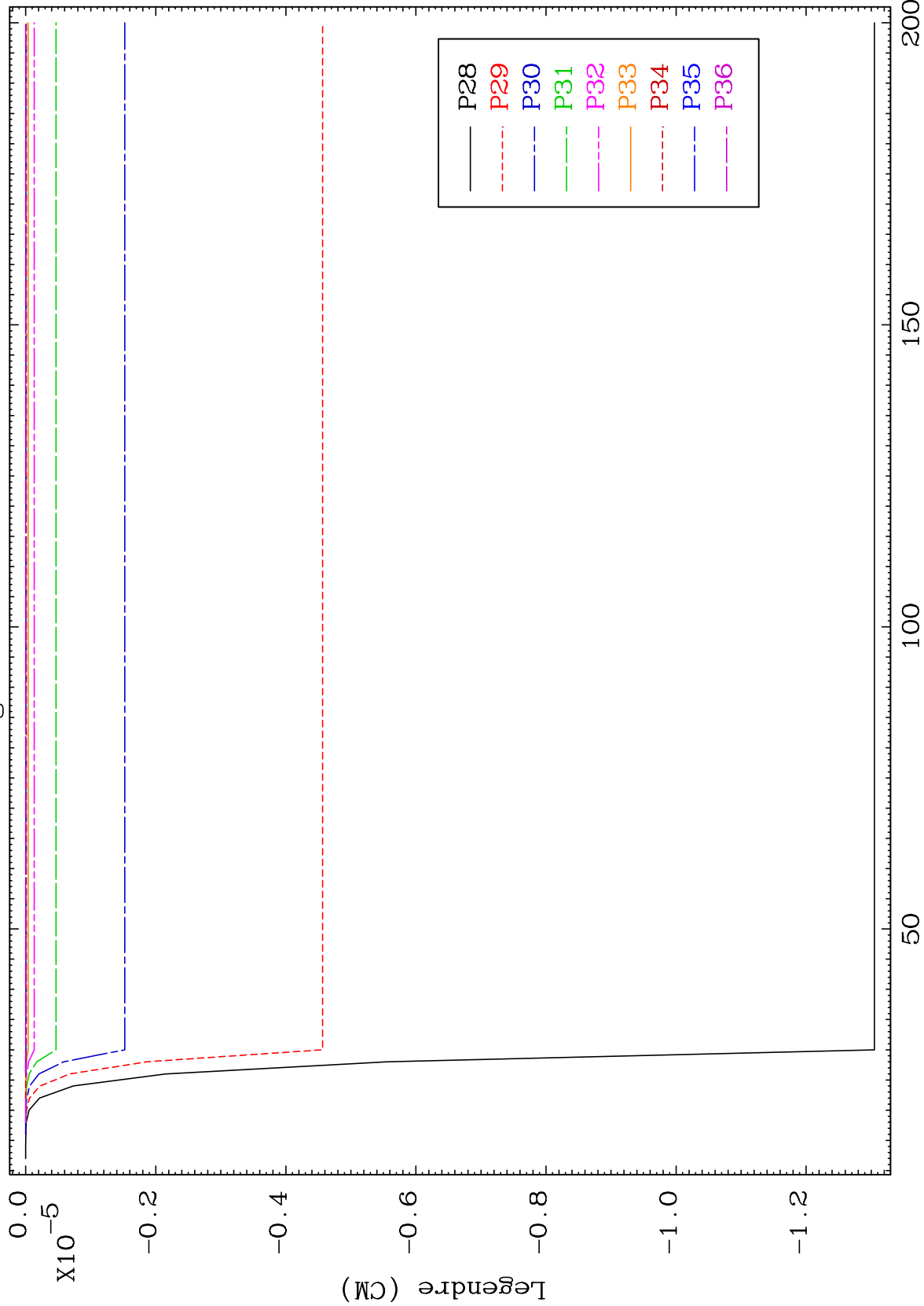


34

Incident Energy (MeV)

57-La-144

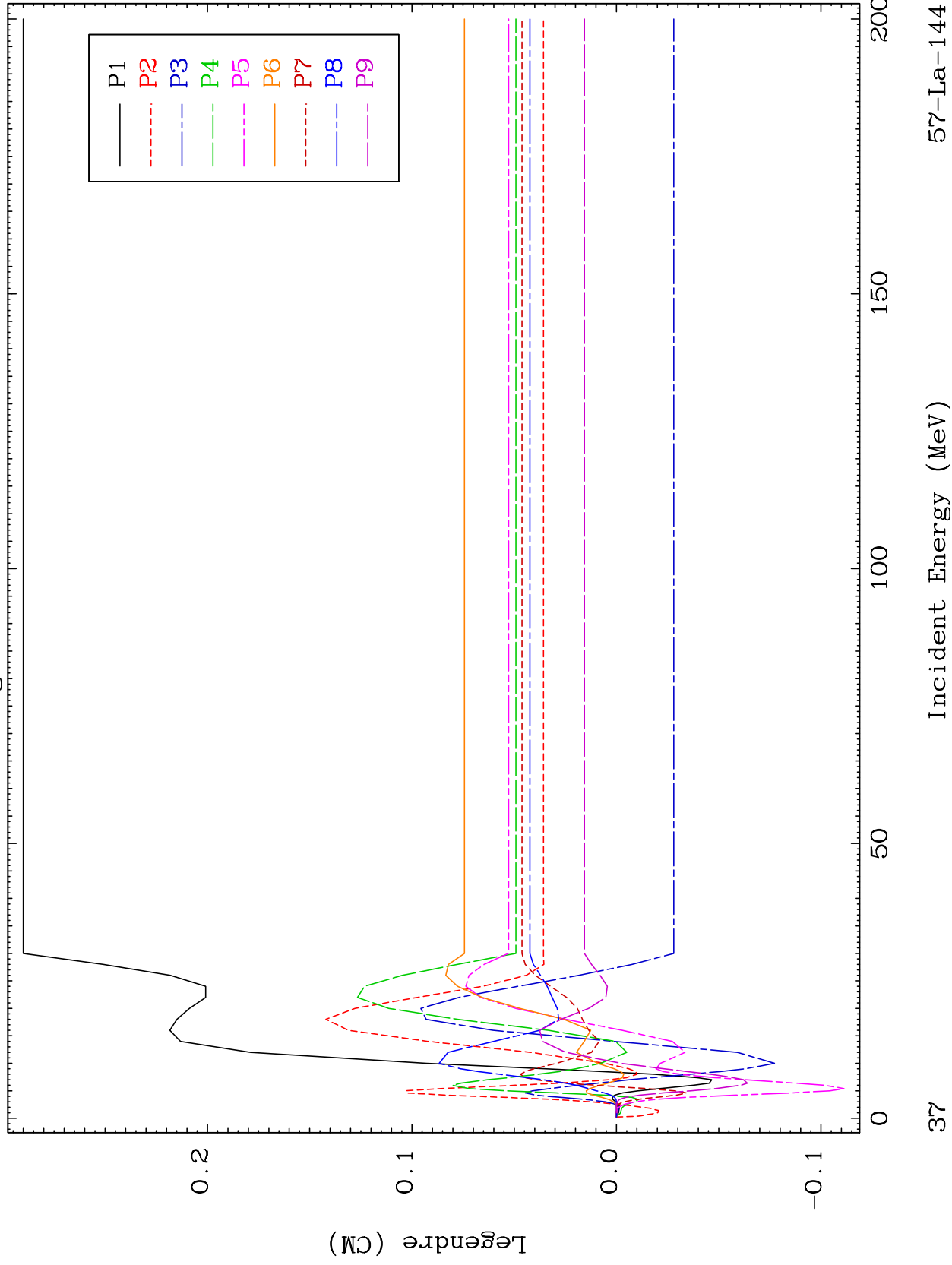




MAT 5743

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

57-La-144



37

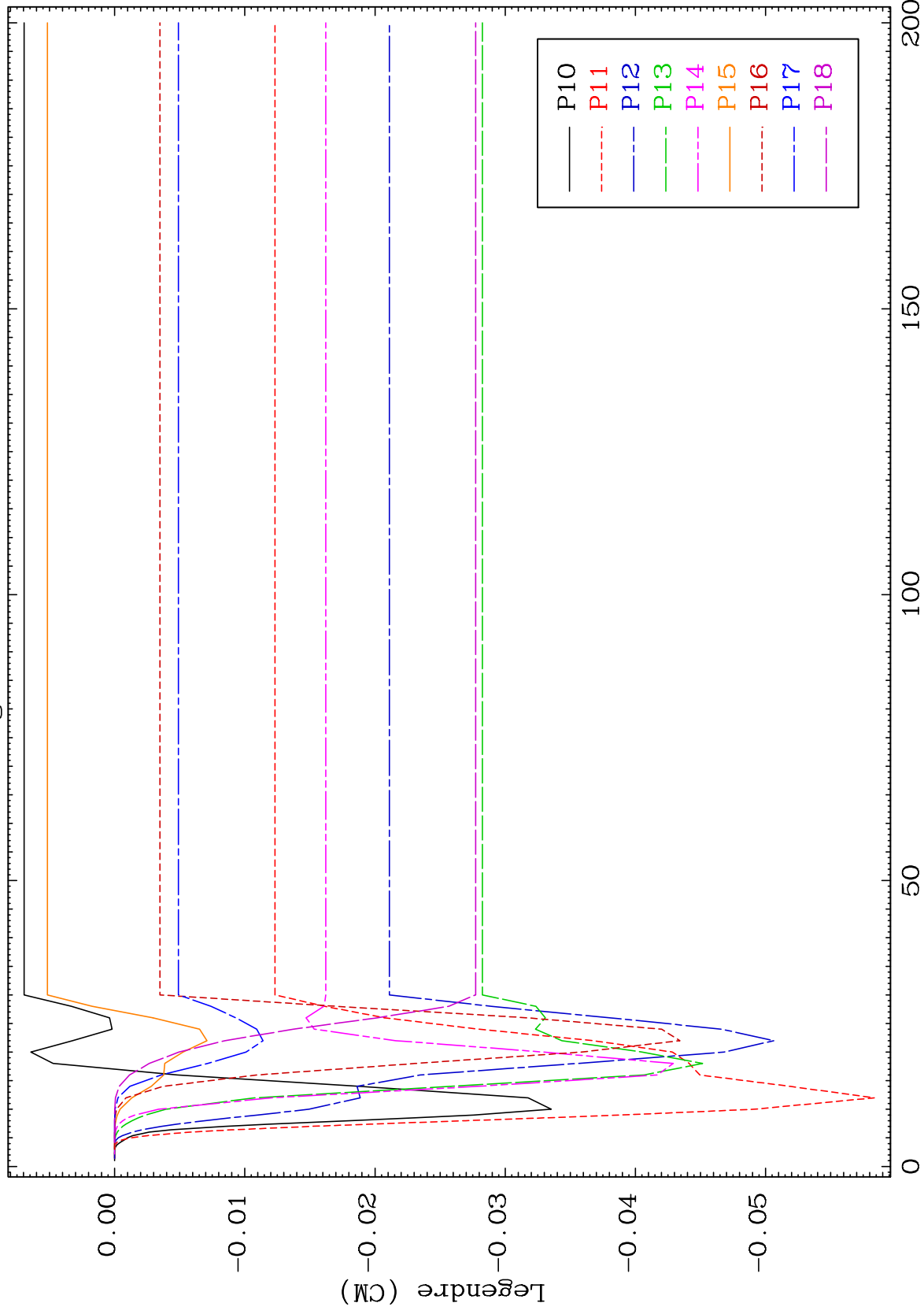
Incident Energy (MeV)

57-La-144

MAT 5743

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

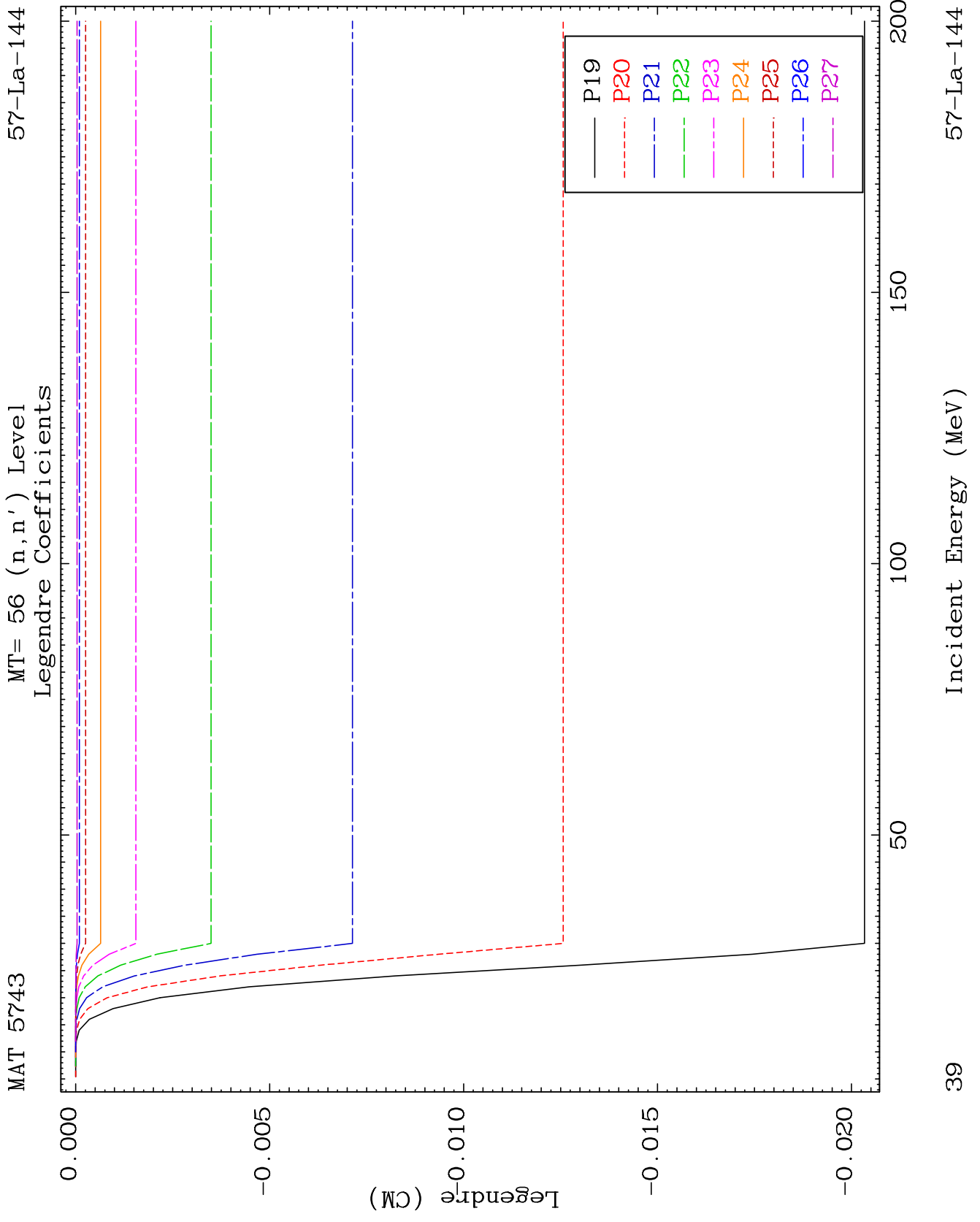
57-La-144



38

Incident Energy (MeV)

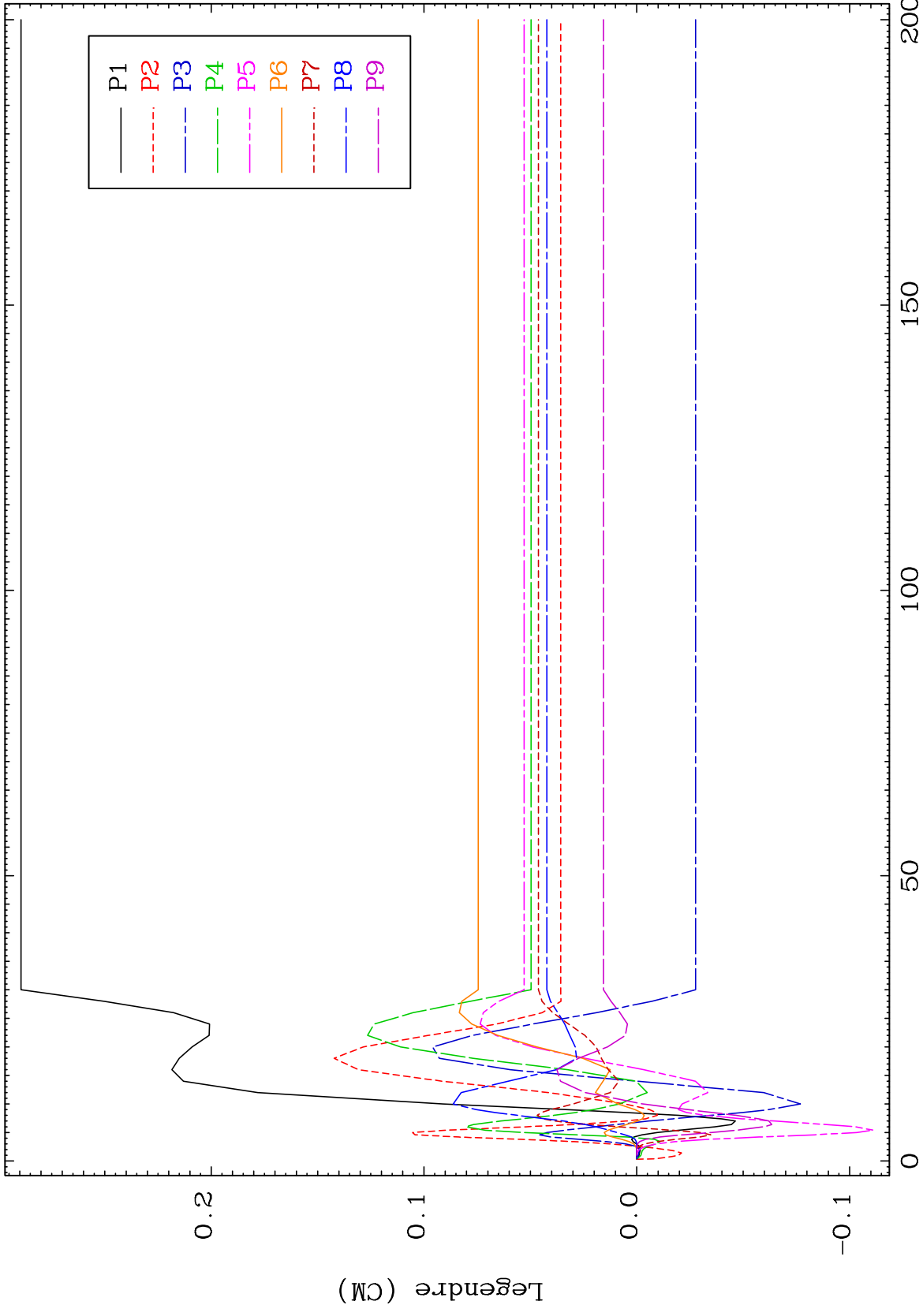
57-La-144



MAT 5743

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

57-La-144



41

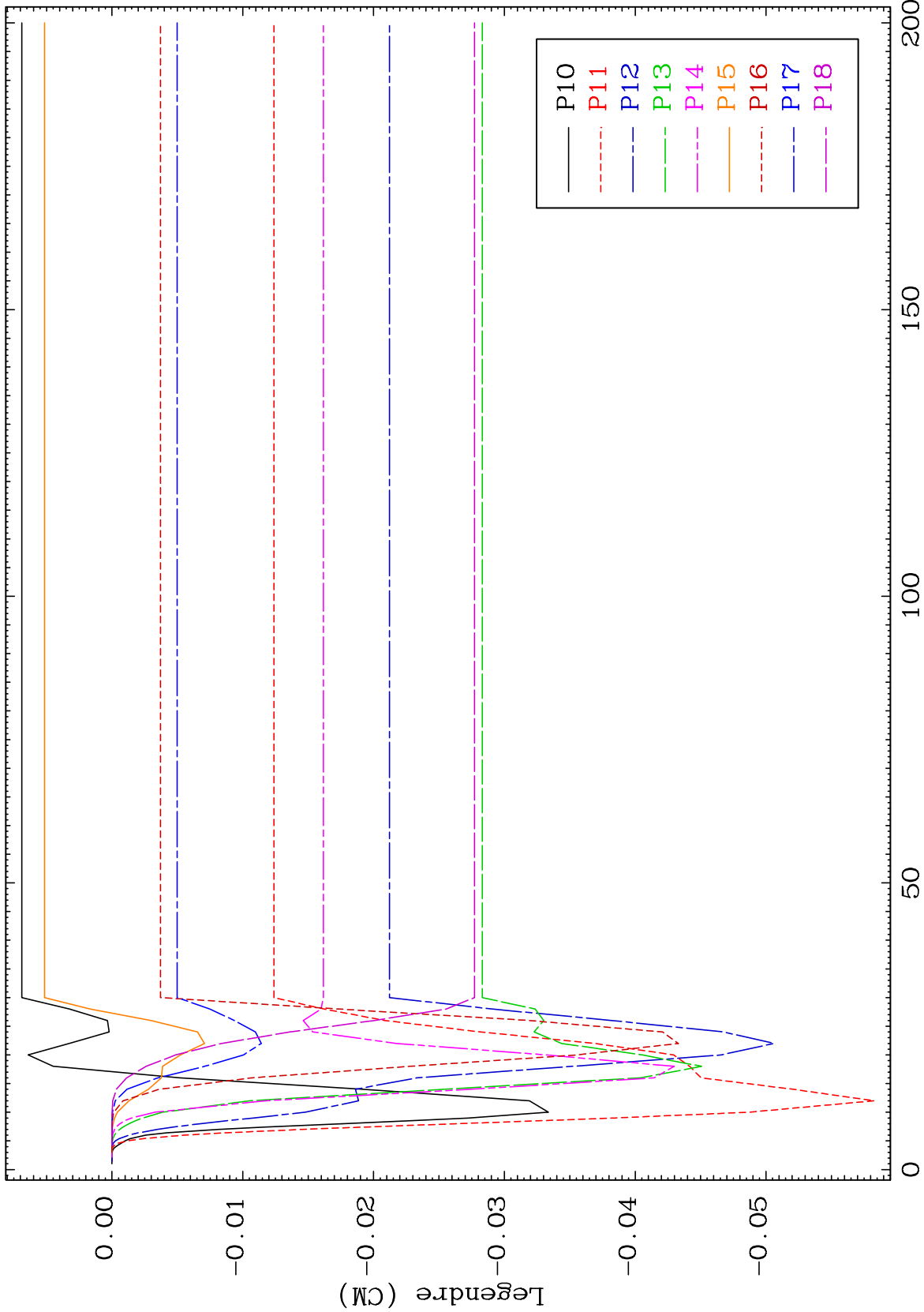
Incident Energy (MeV)

57-La-144

MAT 5743

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

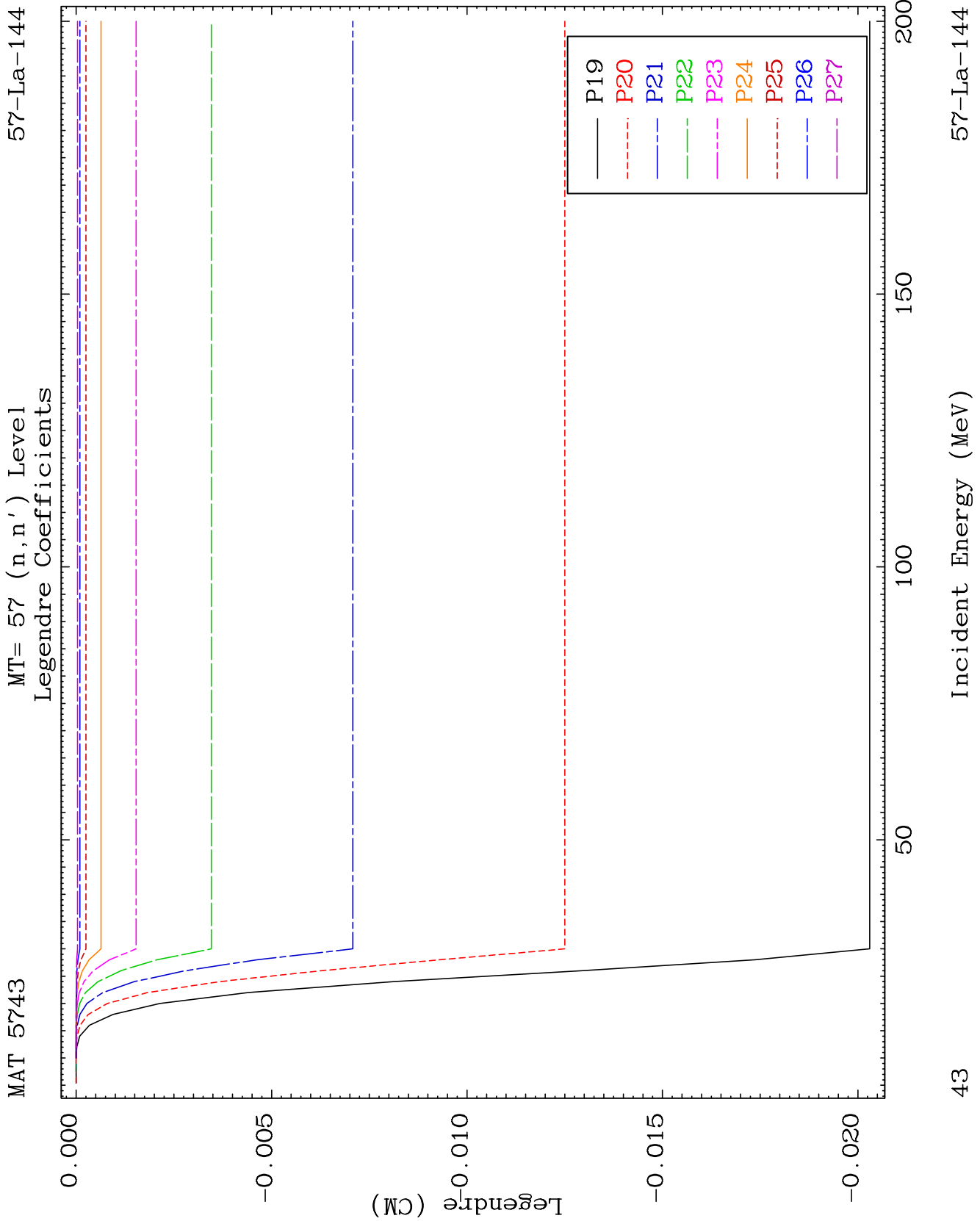
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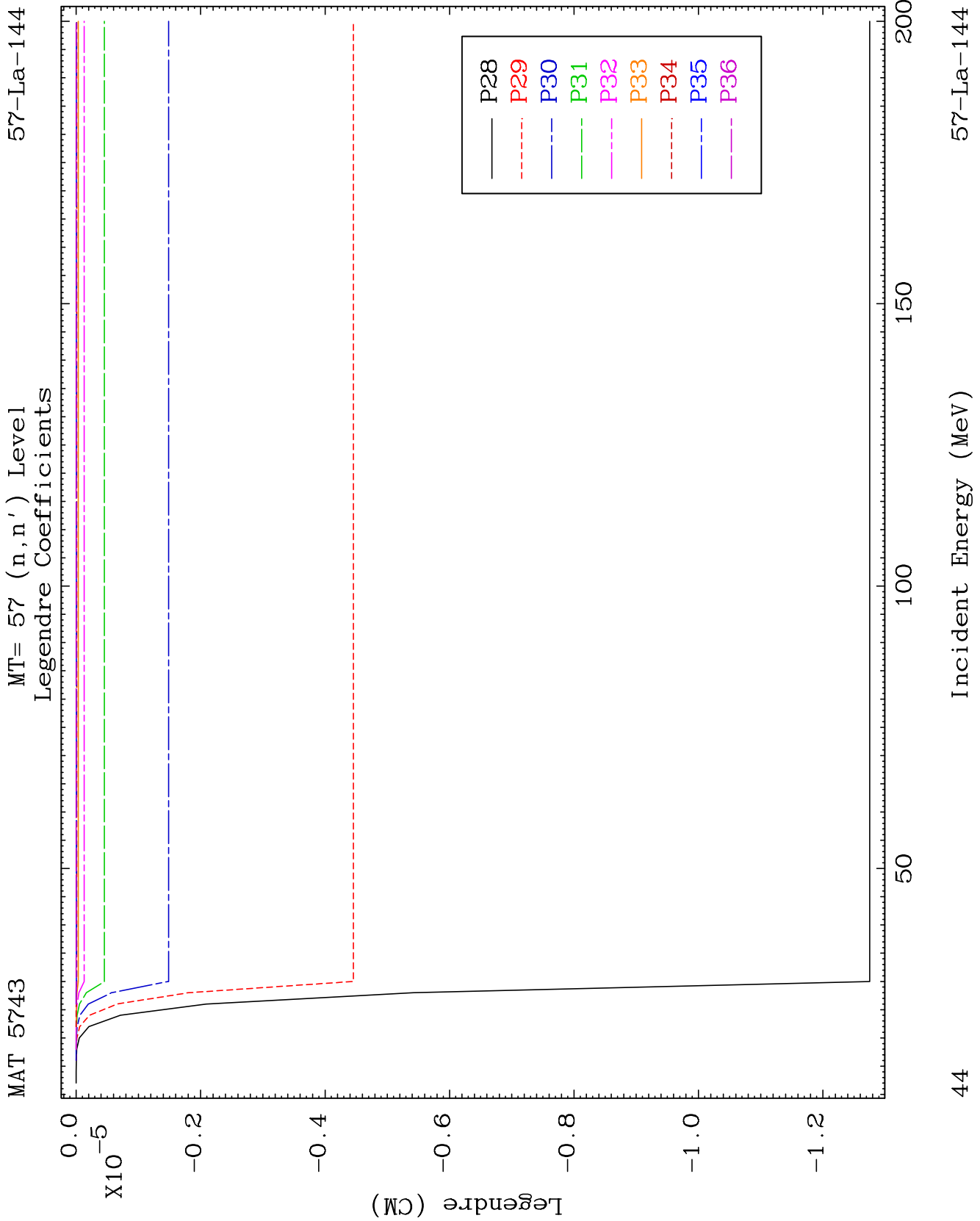


57-La-144

Incident Energy (MeV)

42

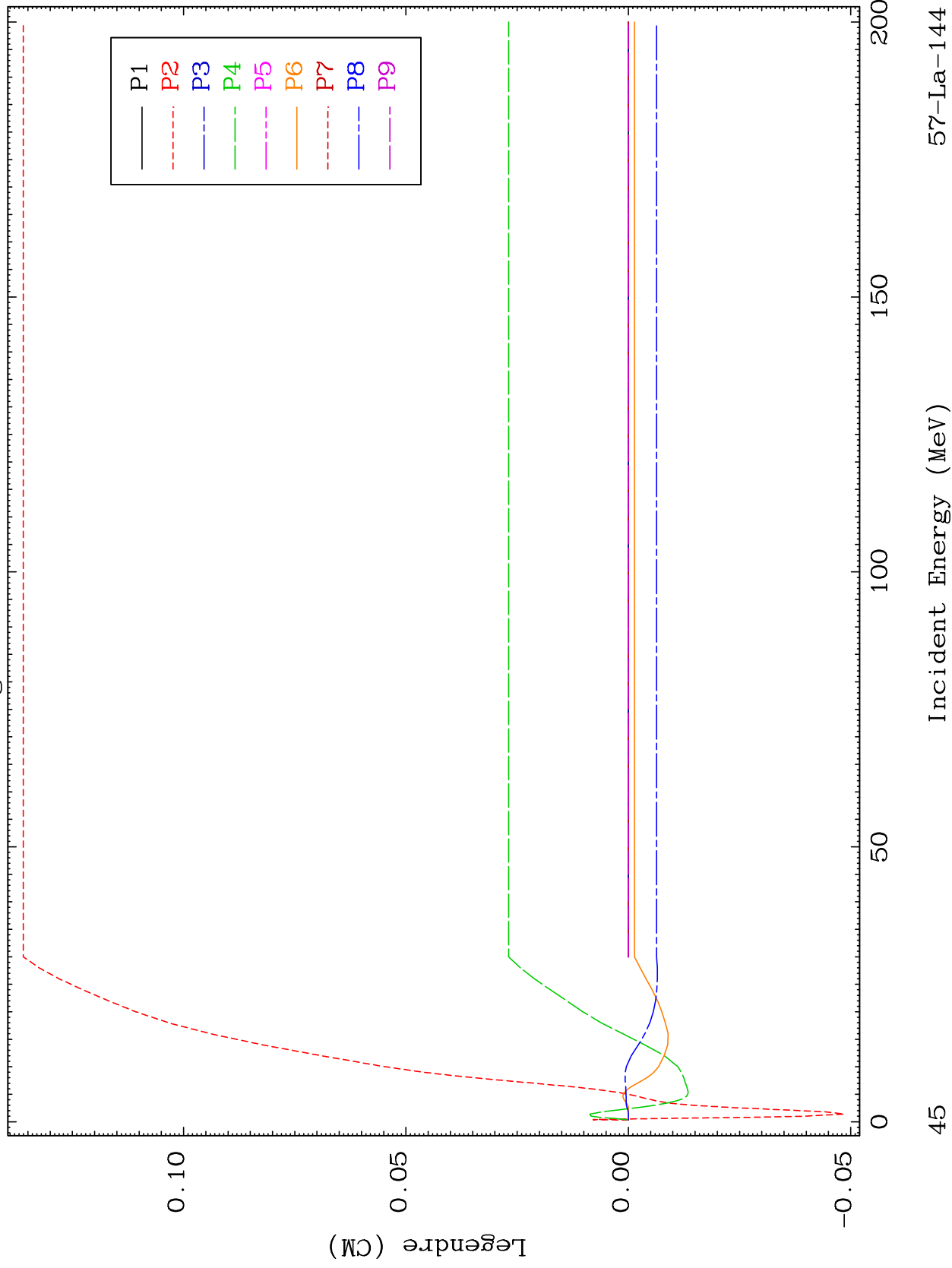




MAT 5743

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

57-La-144

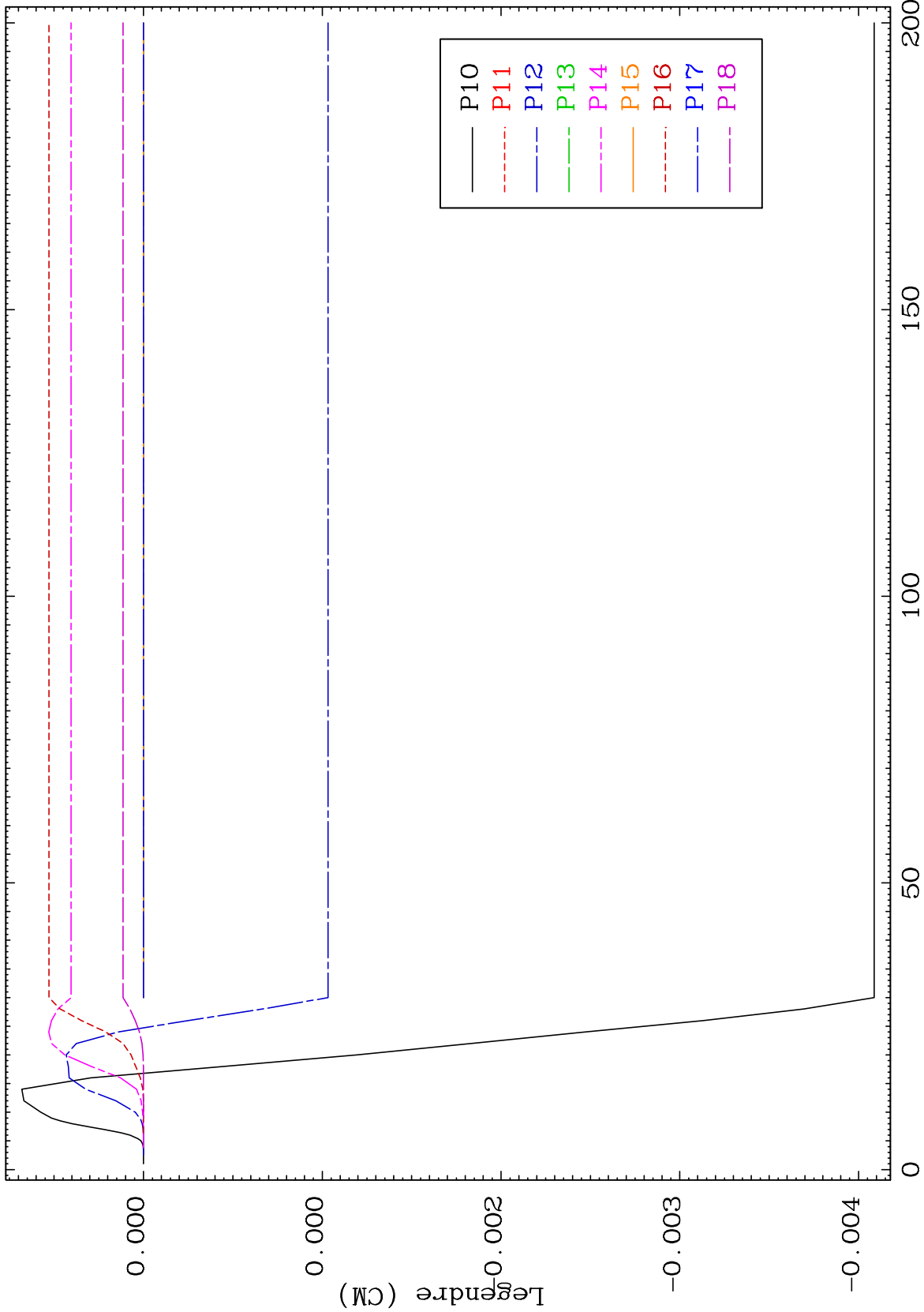


57-La-144

MAT 5743

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

57-La-144



46

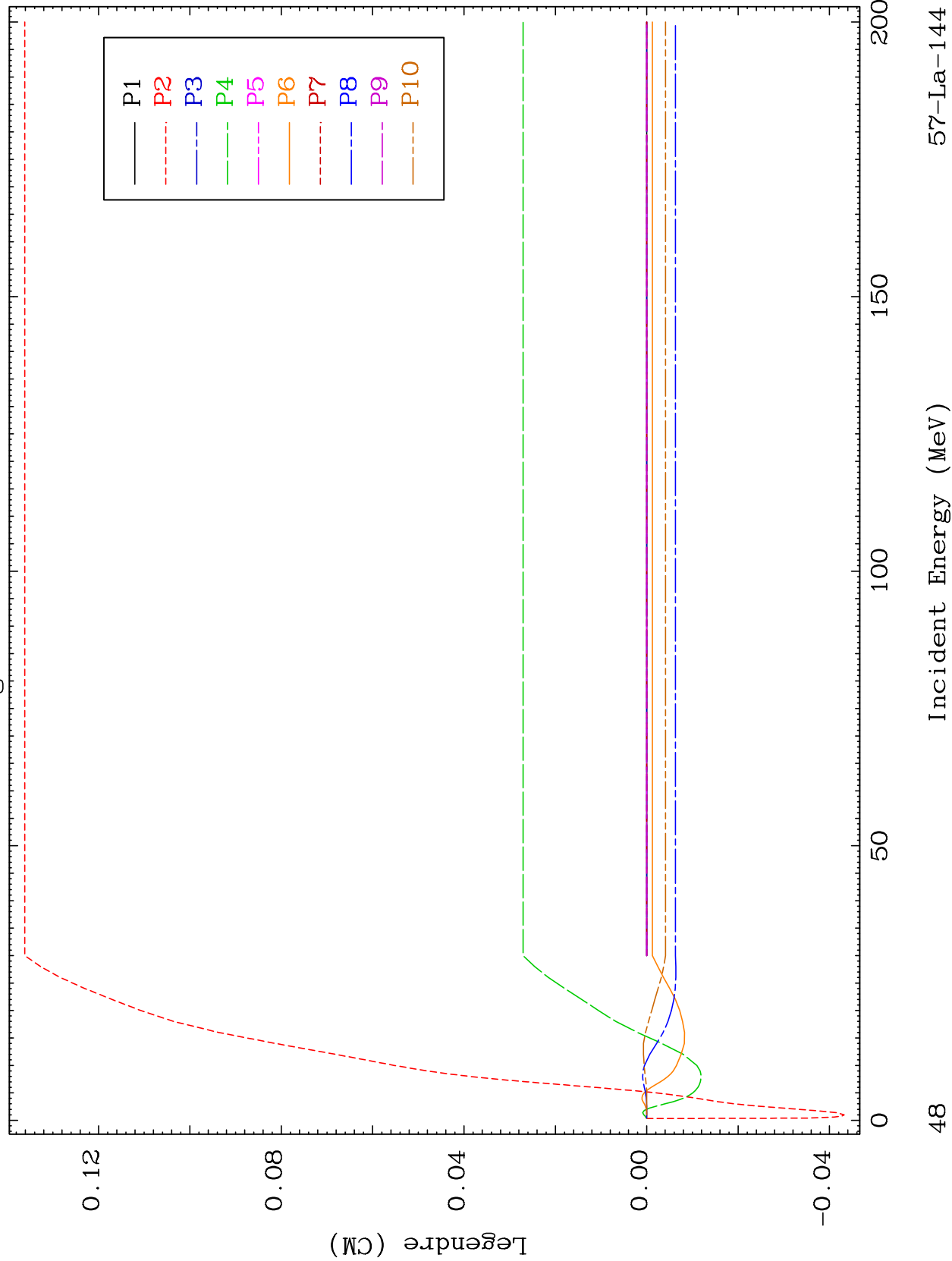
Incident Energy (MeV)

57-La-144

MAT 5743

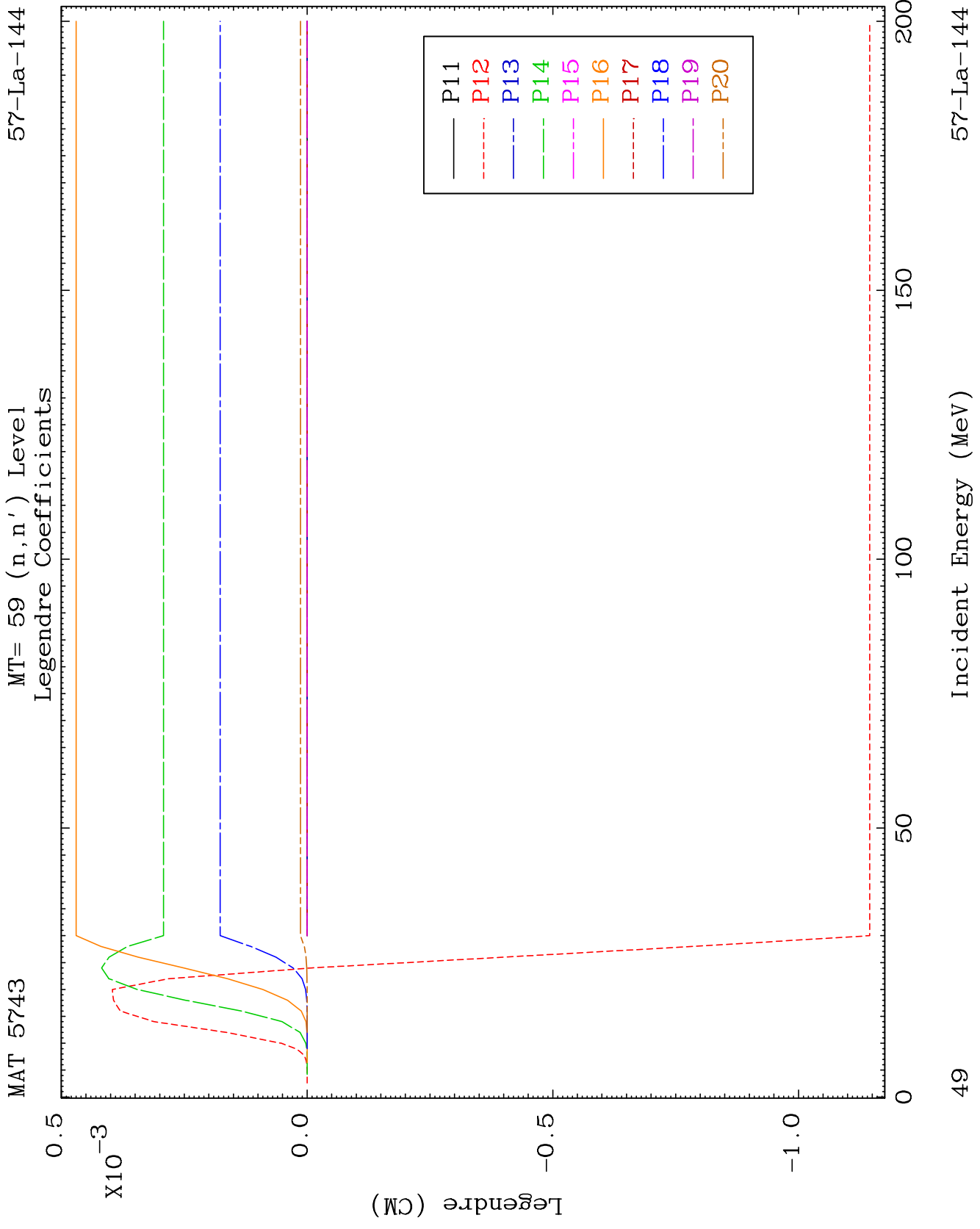
MT= 59 (n,n') Level
Legendre Coefficients

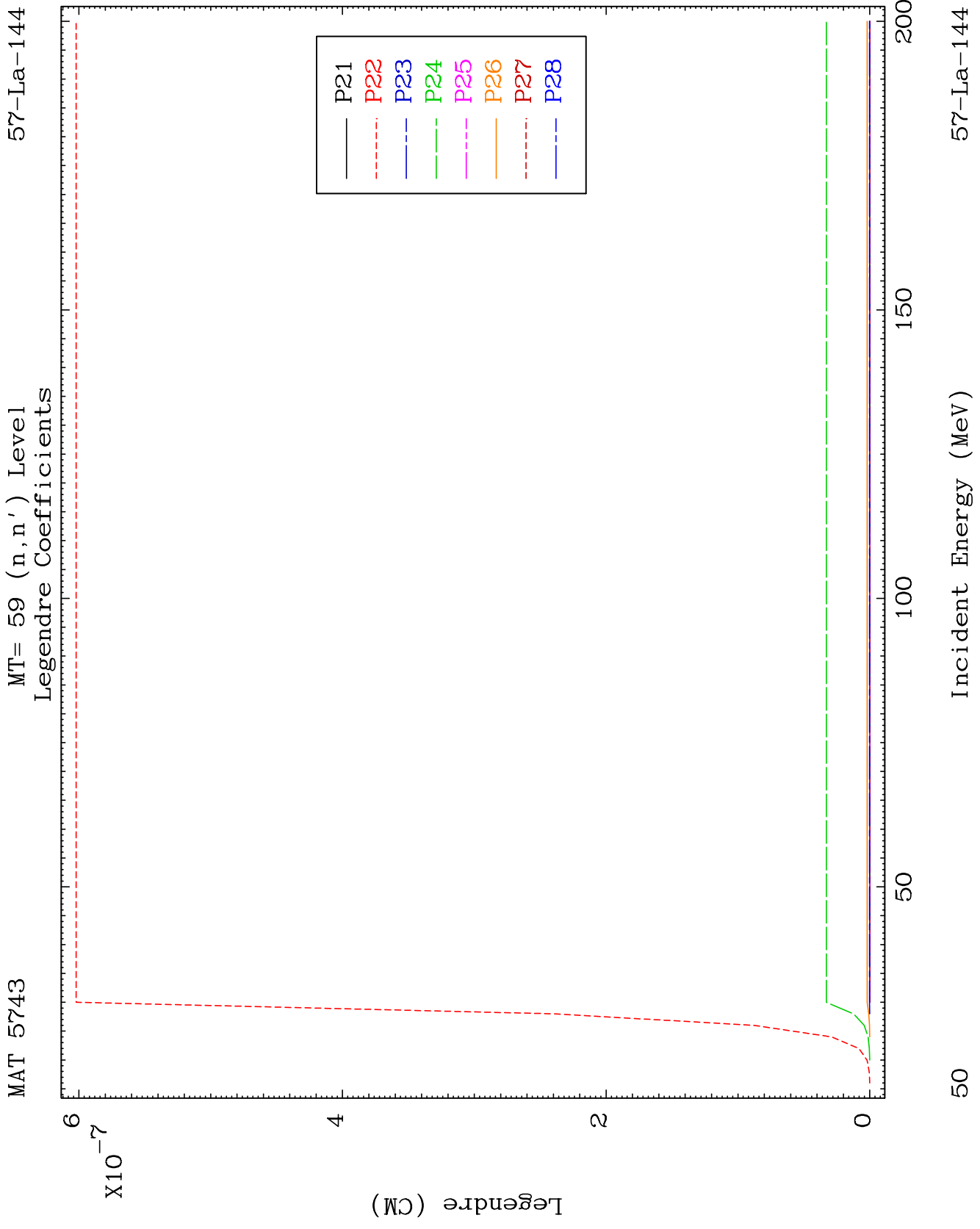
57-La-144



48

57-La-144

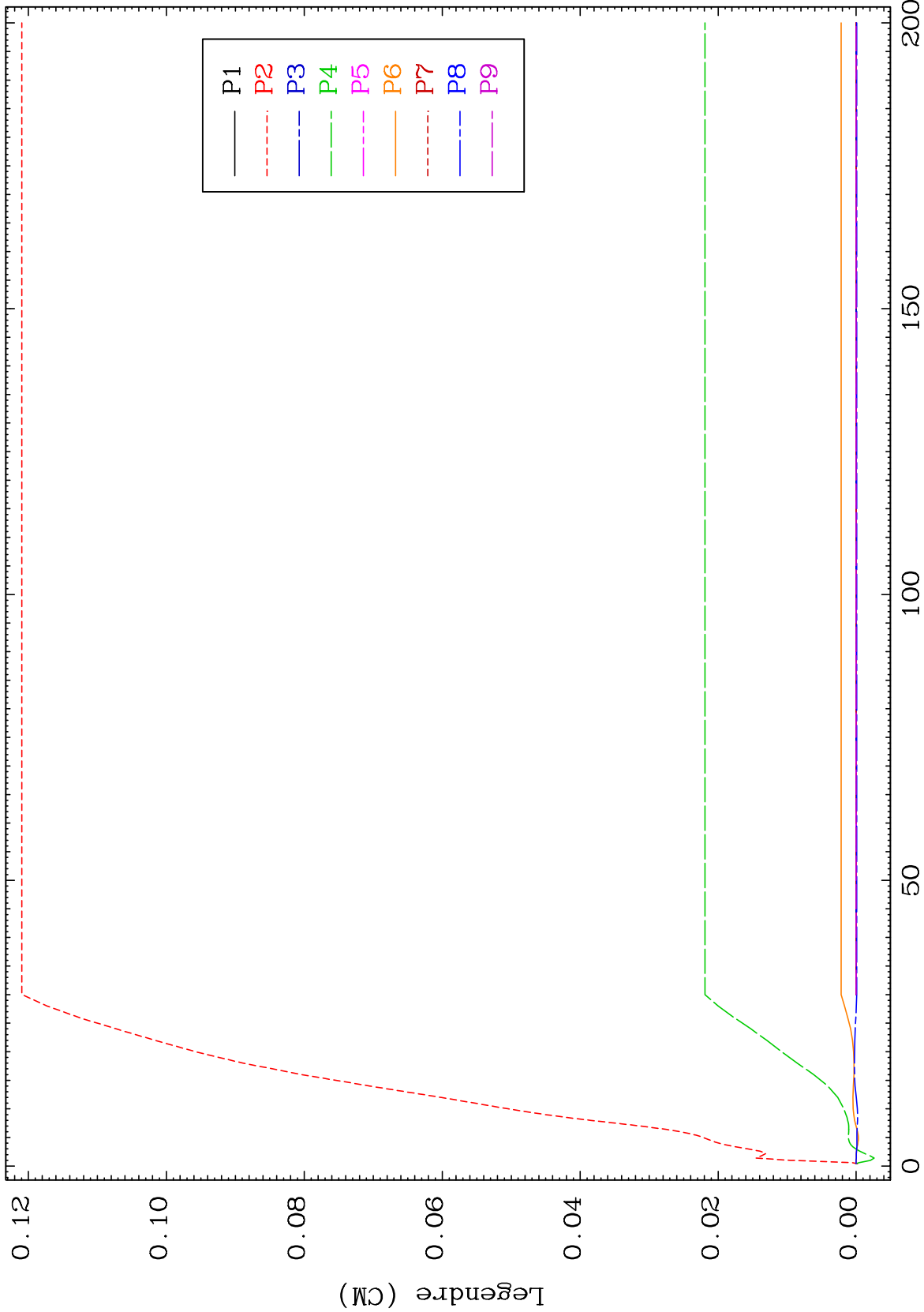




MAT 5743

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

57-La-144



51

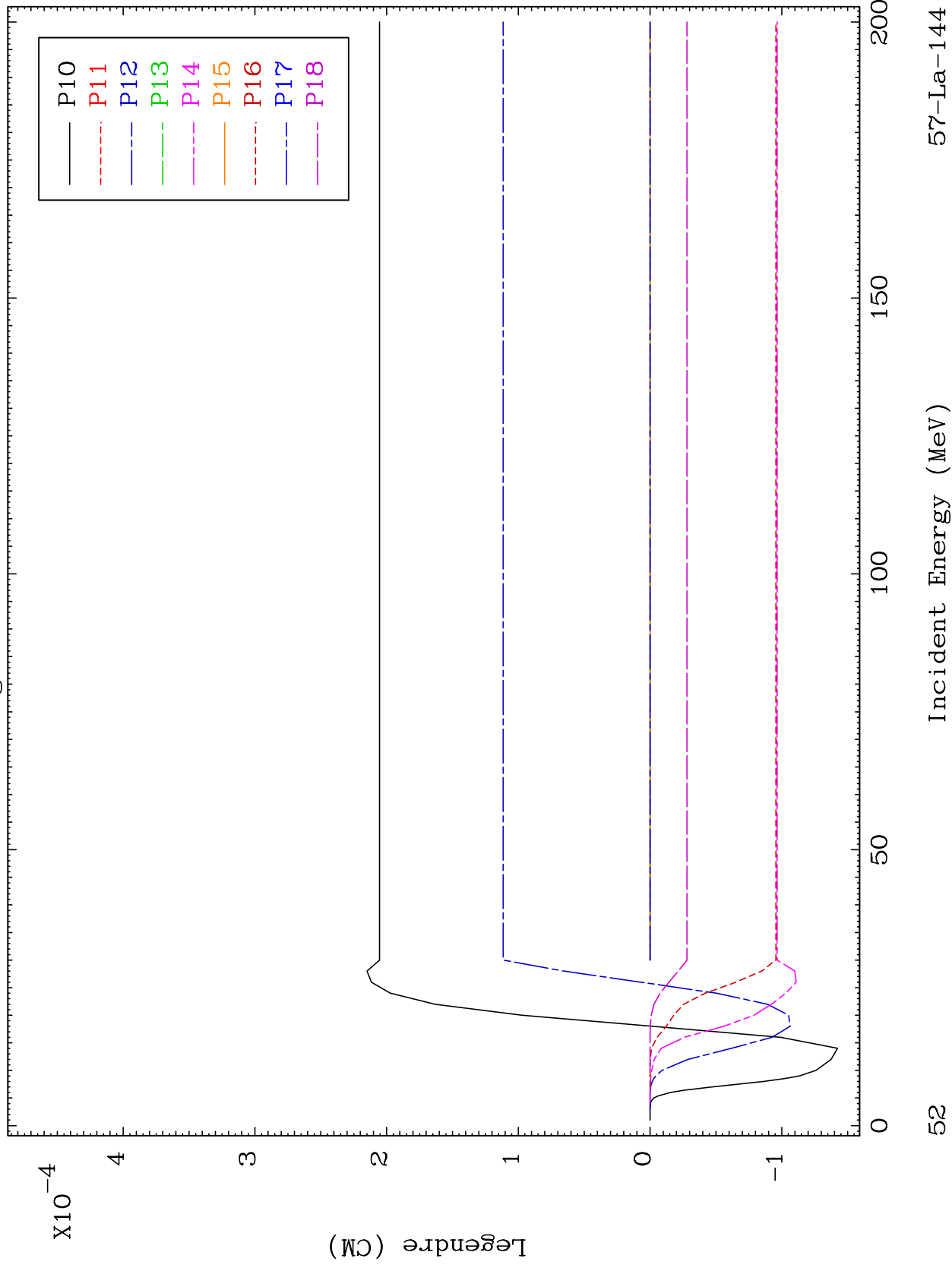
Incident Energy (MeV)

57-La-144

MAT 5743

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

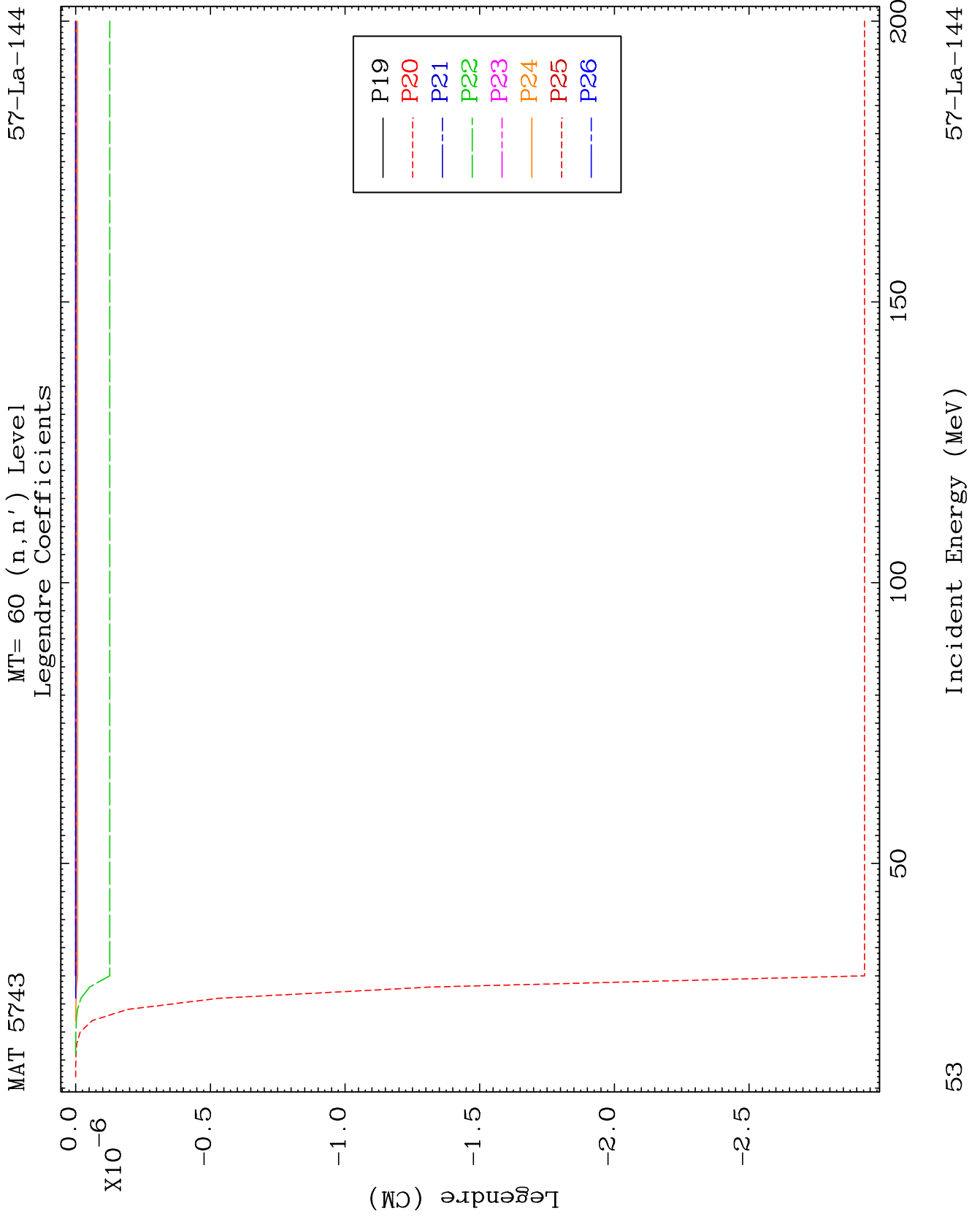
57-La-144



57-La-144

Incident Energy (MeV)

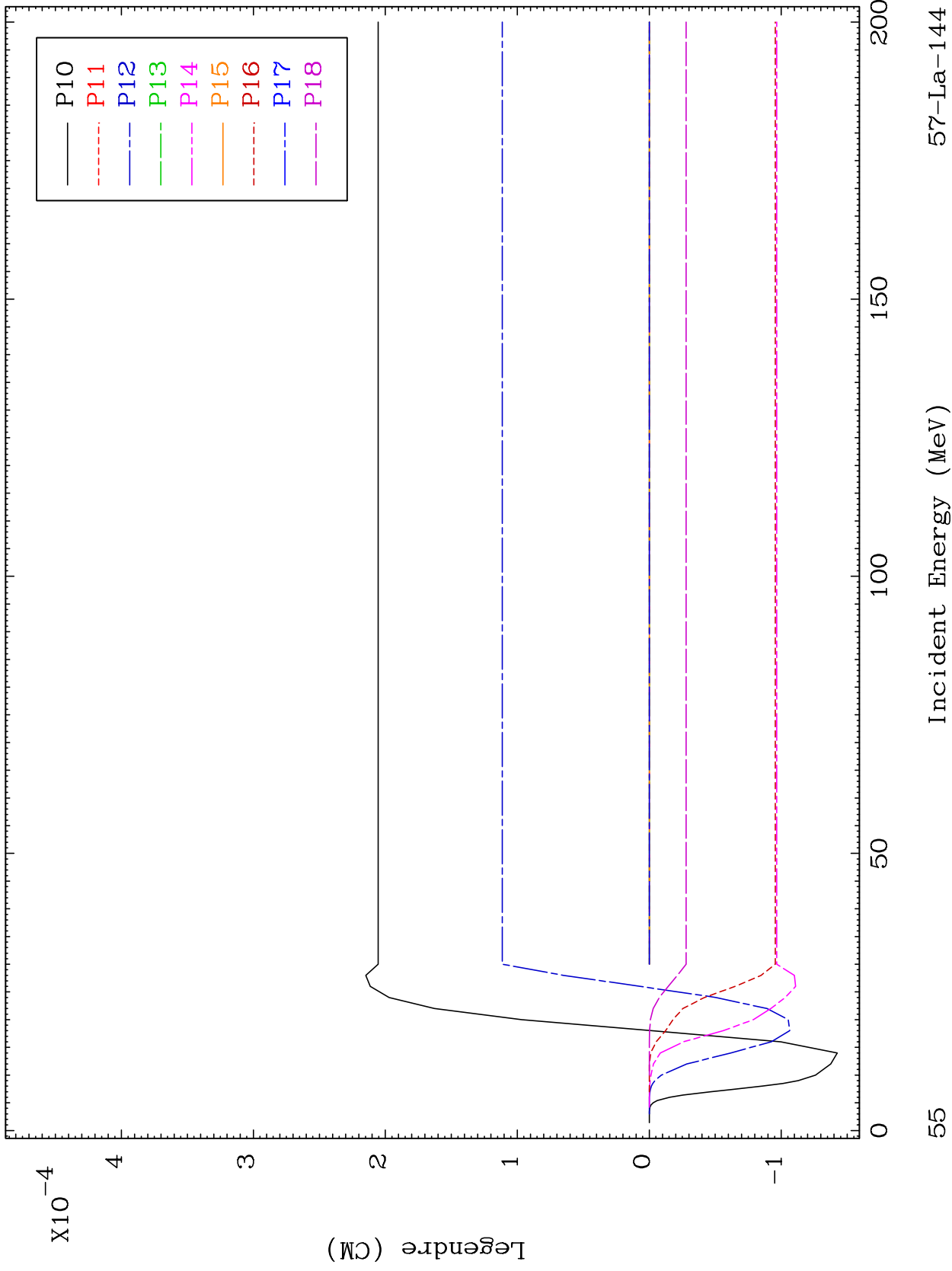
52



MAT 5743

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

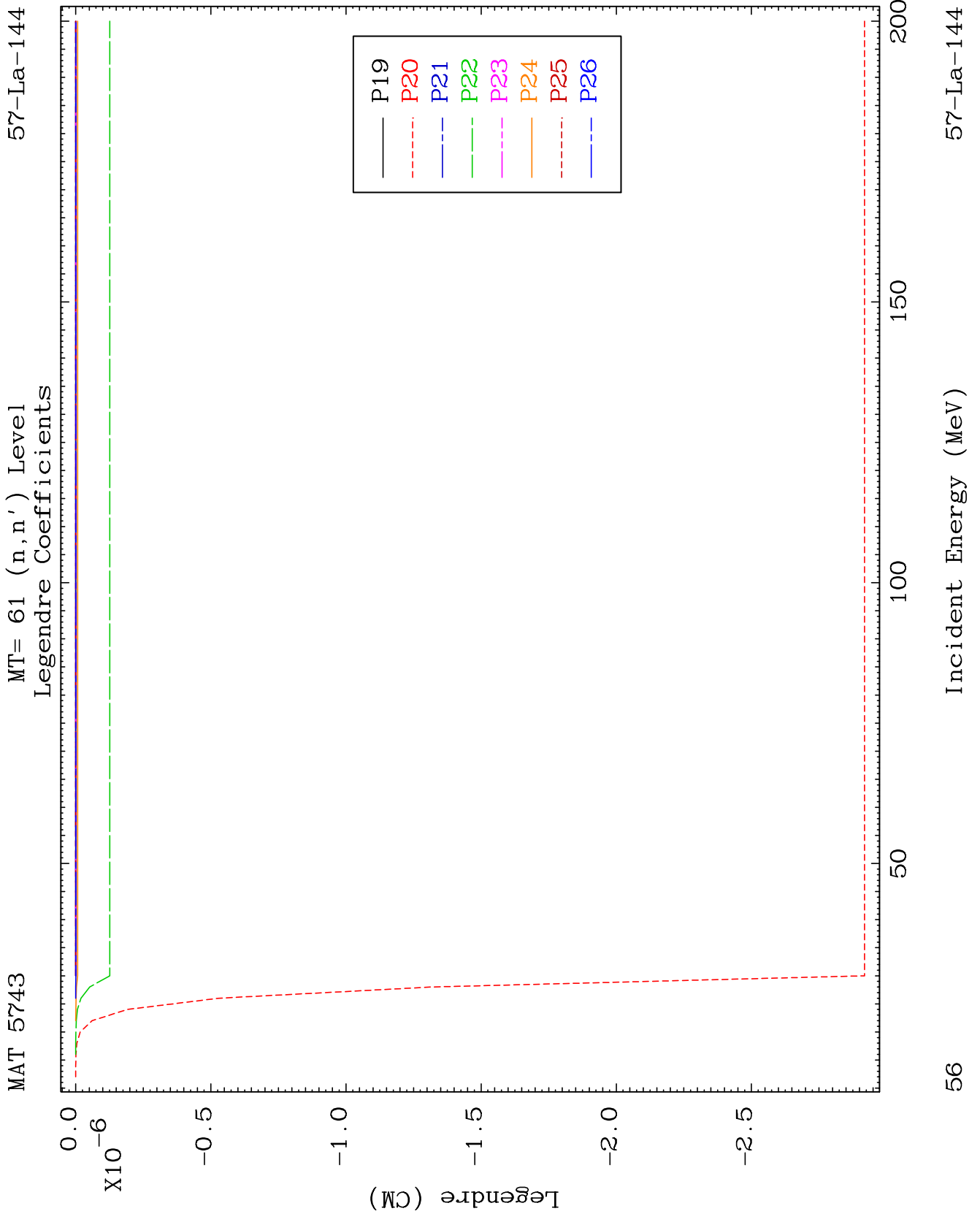
57-La-144



57-La-144

Incident Energy (MeV)

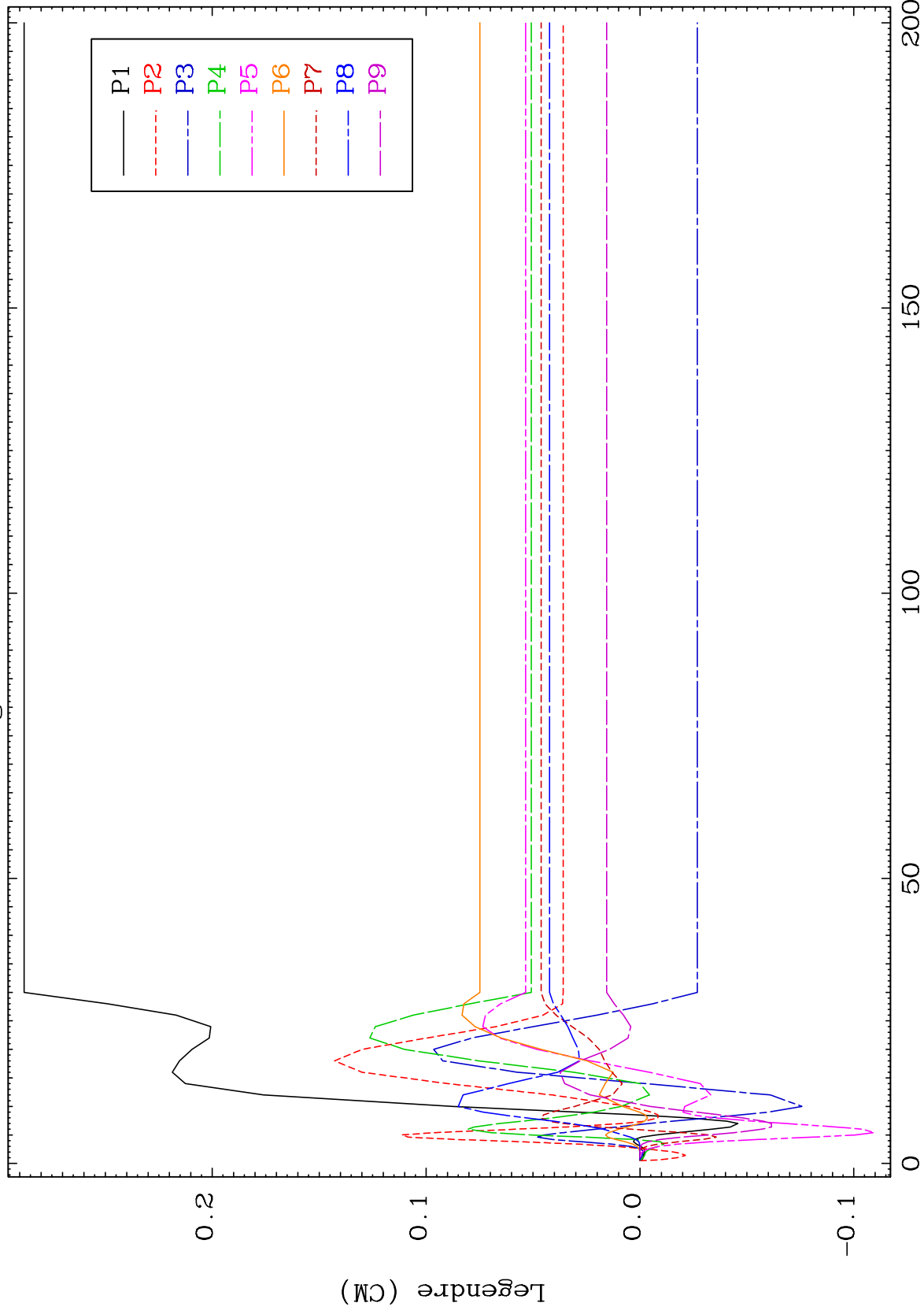
55



MAT 5743

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

57-La-144



57

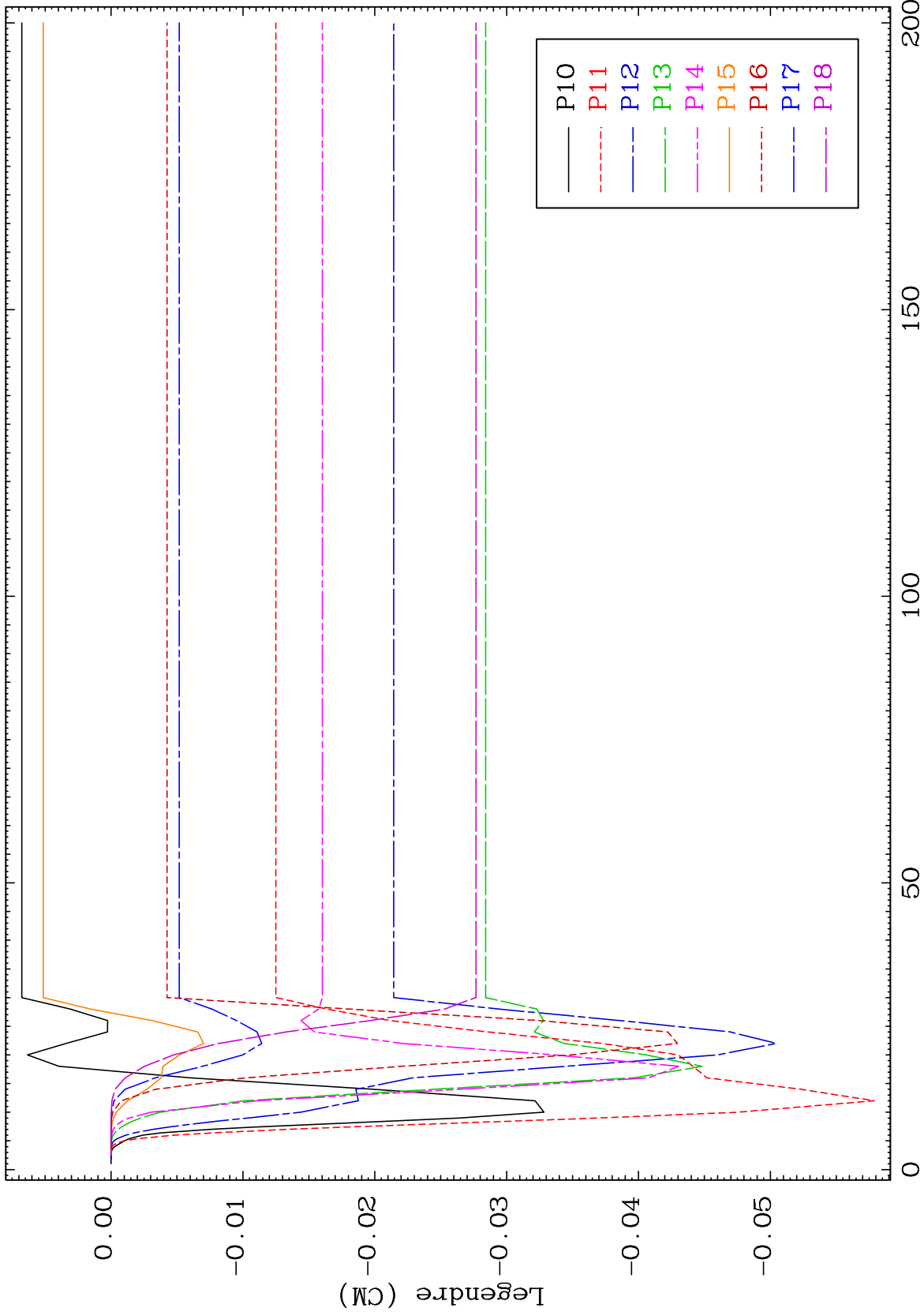
Incident Energy (MeV)

57-La-144

MAT 5743

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

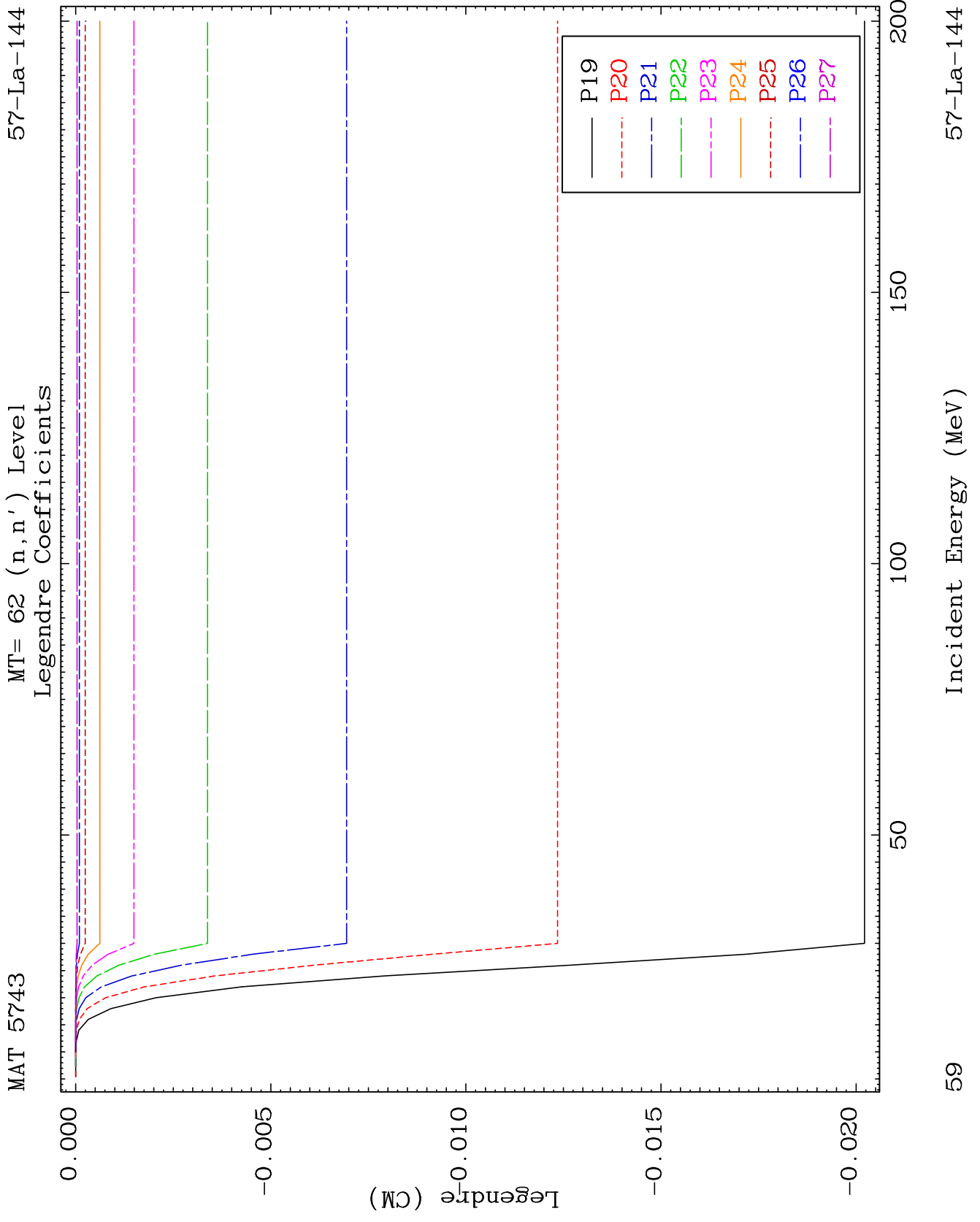
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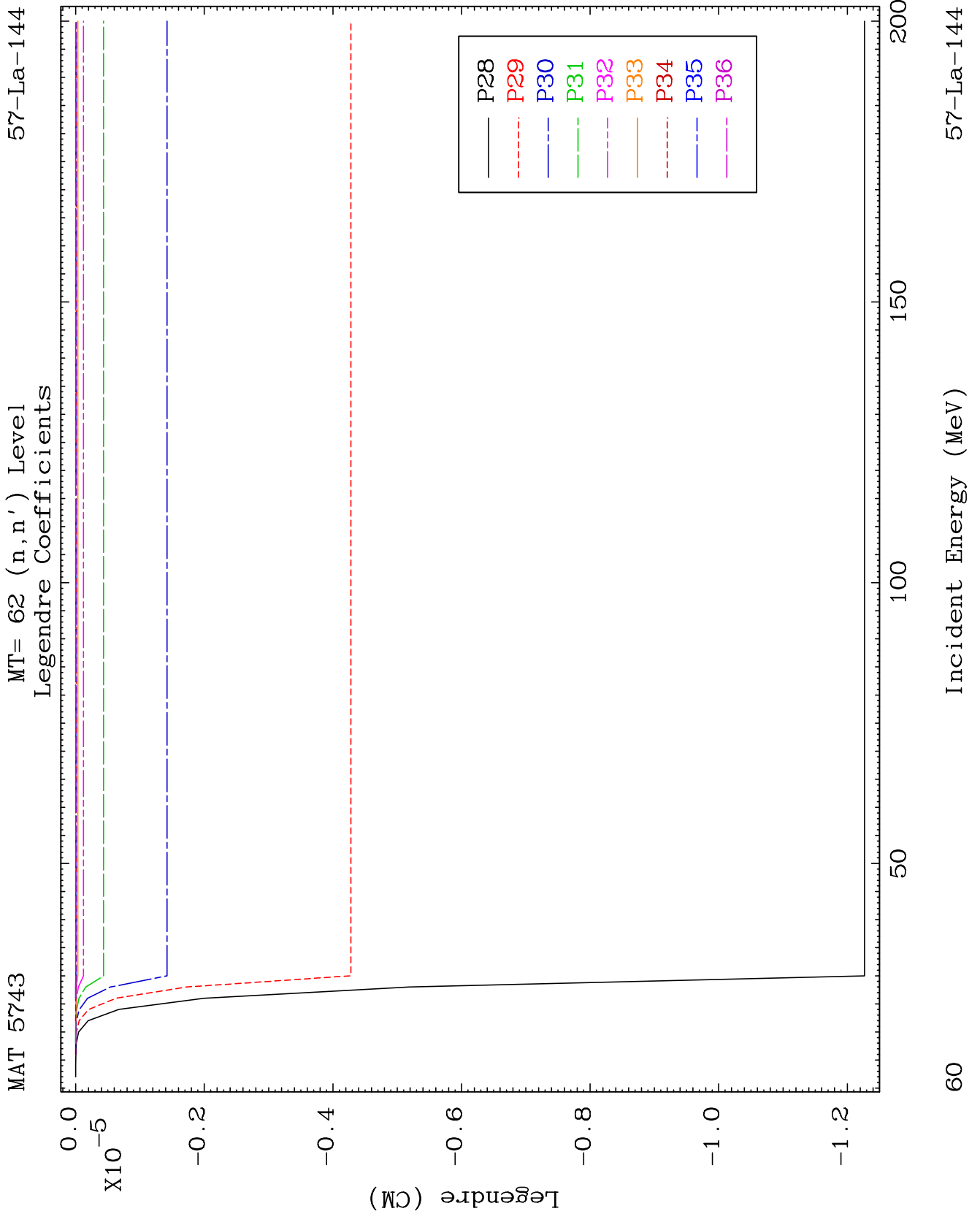


58

Incident Energy (MeV)

57-La-144

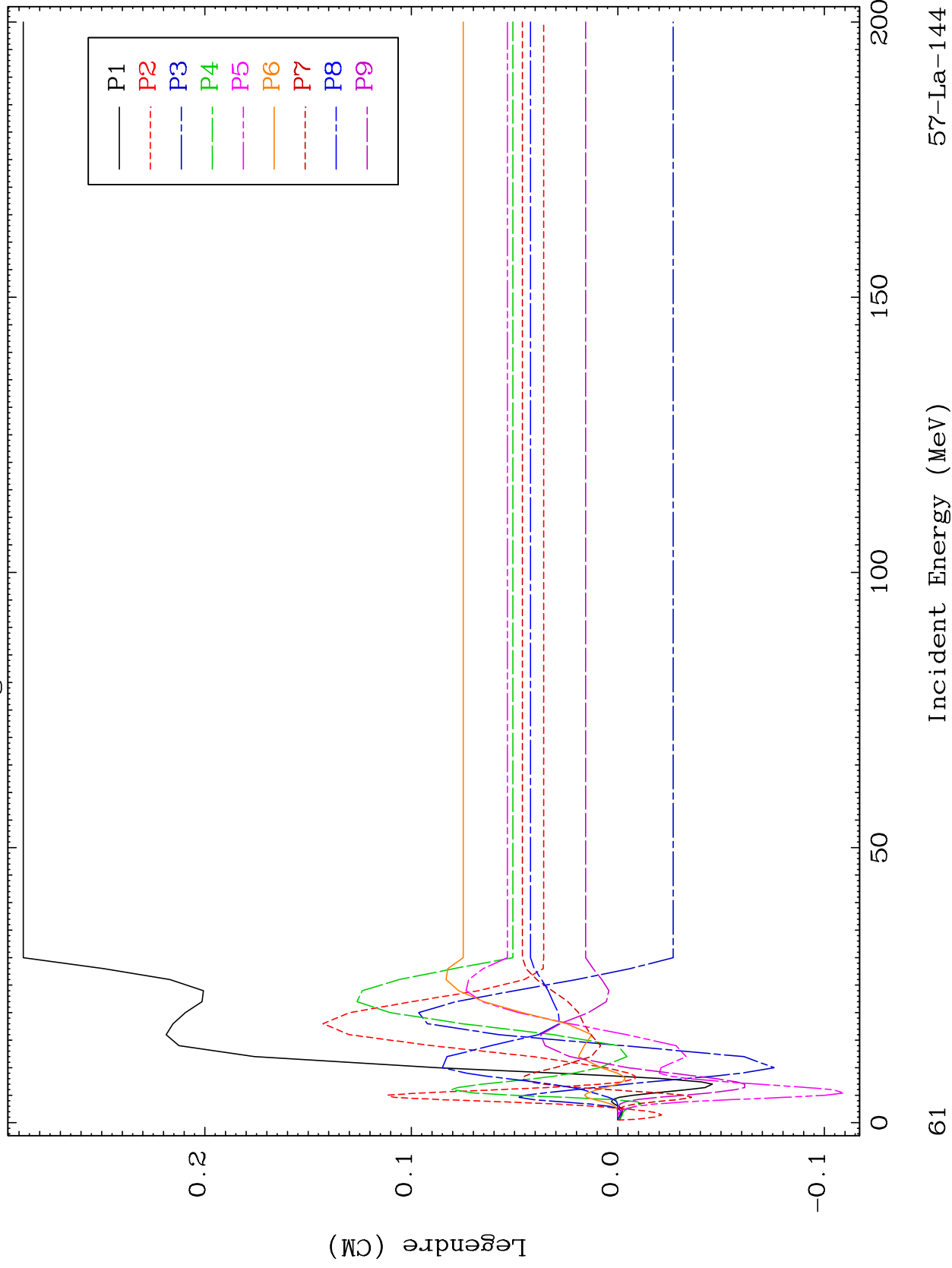




MAT 5743

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

57-La-144



57-La-144

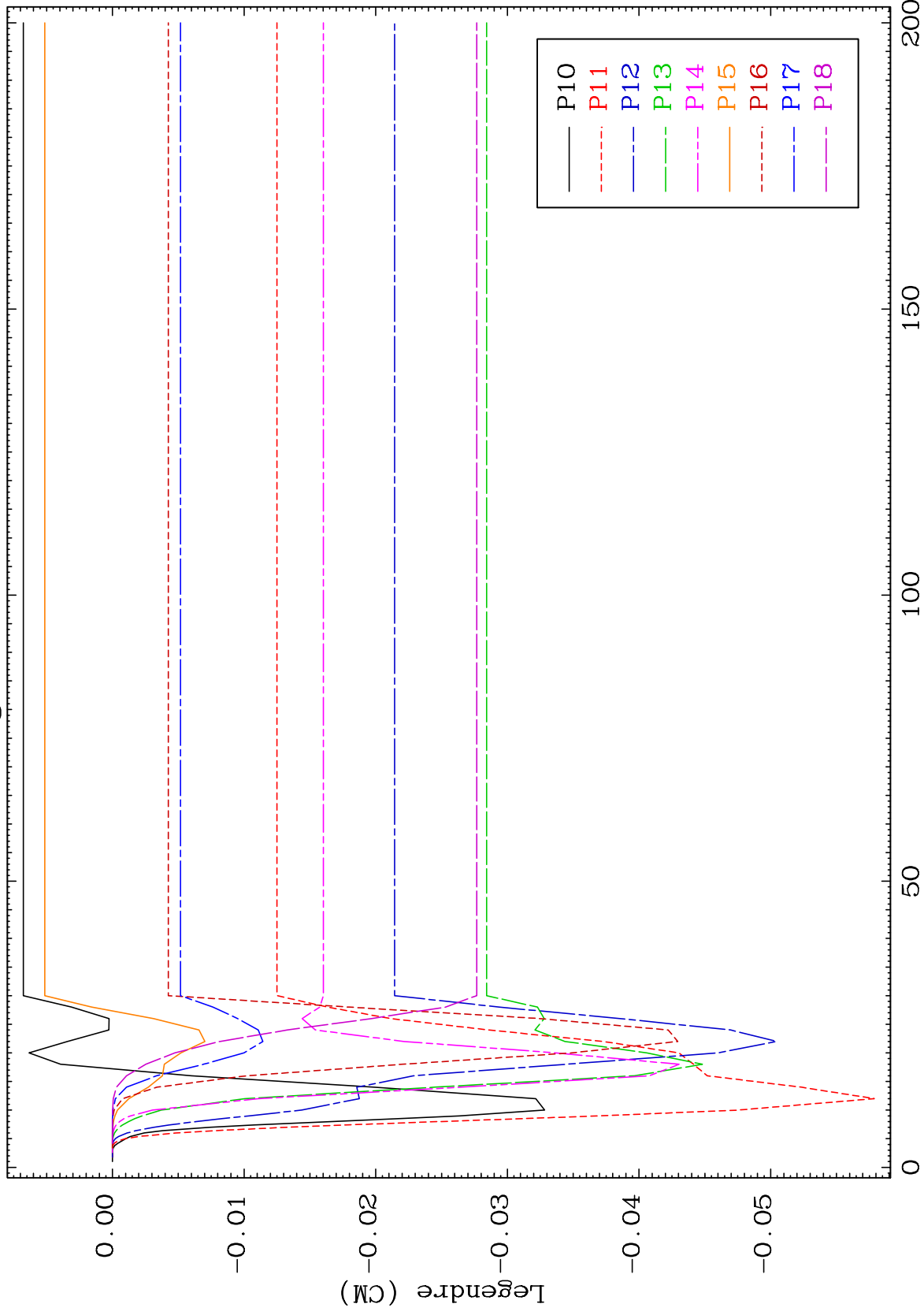
Incident Energy (MeV)

61

MAT 5743

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

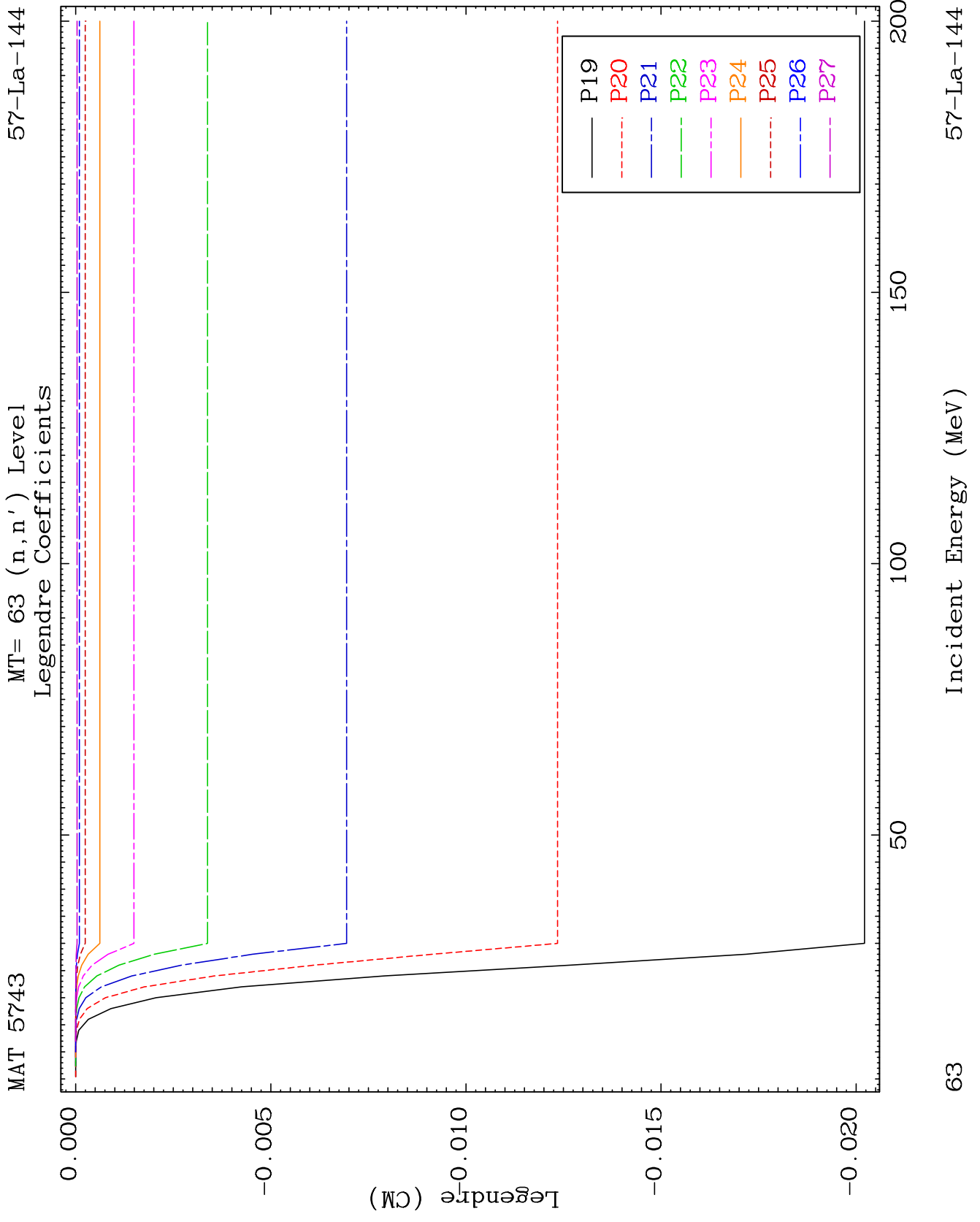
57-La-144

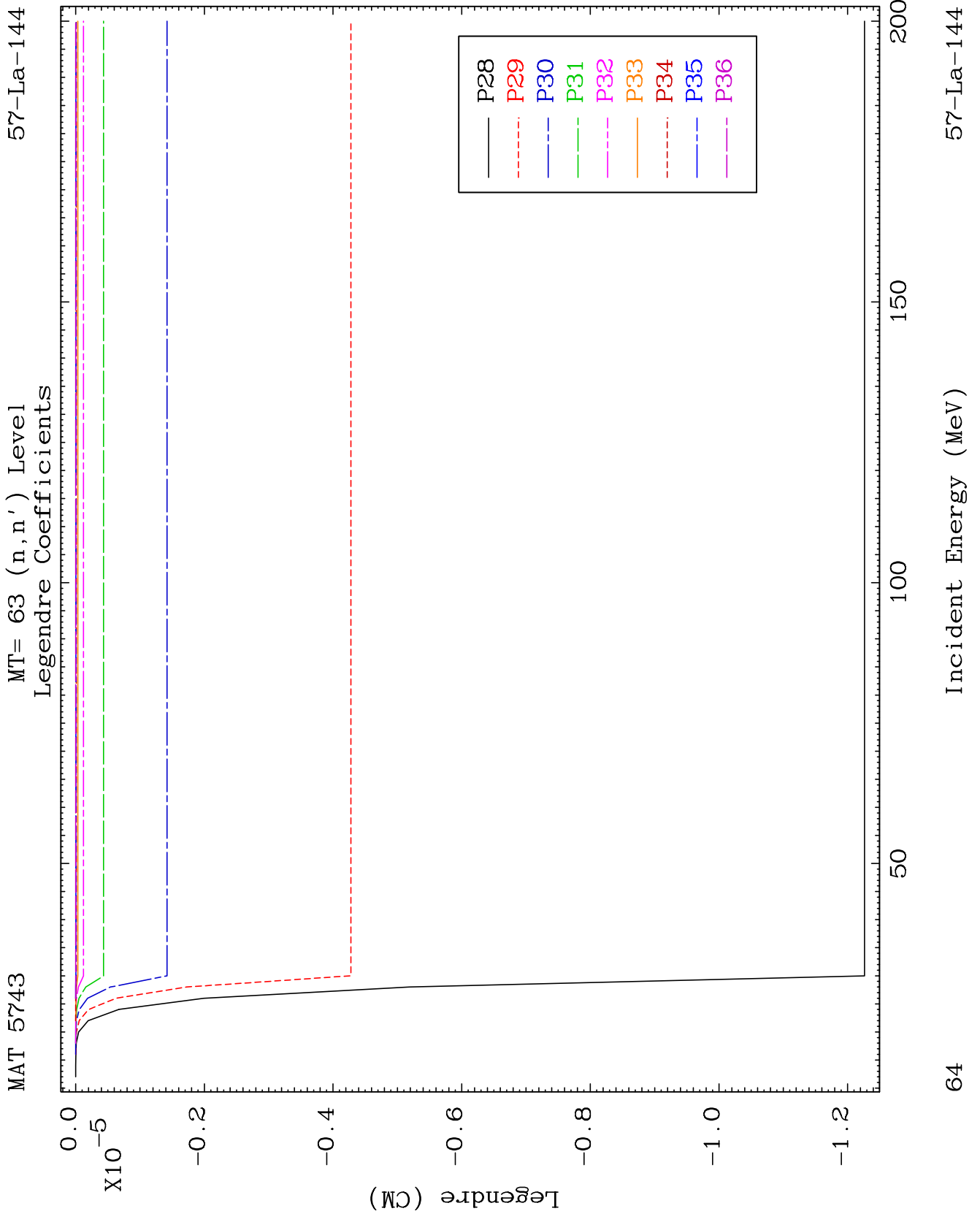


62

Incident Energy (MeV)

57-La-144



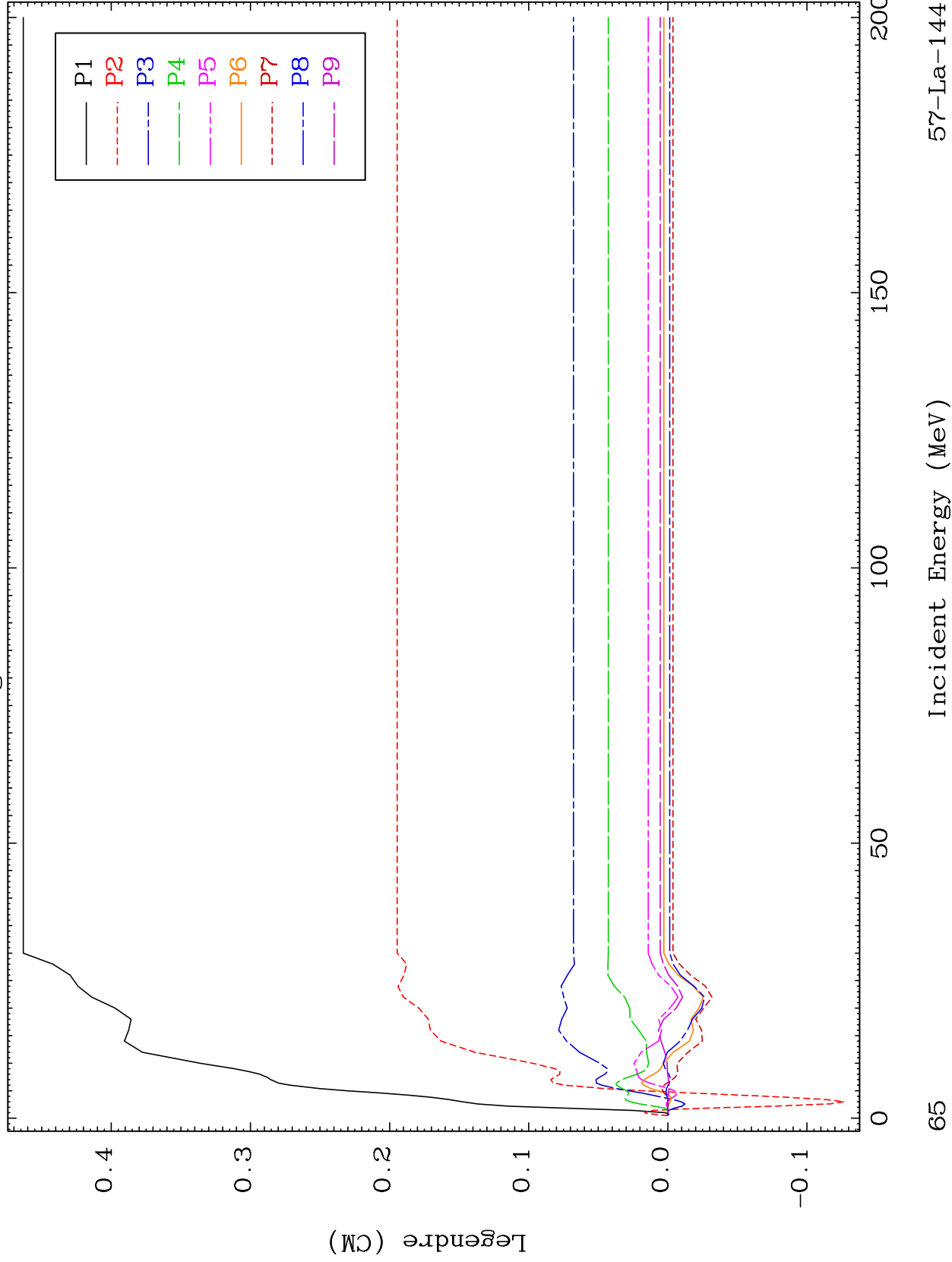


MAT 5743

MT= 64 (n,n') Level

57-La-144

Legendre Coefficients



57-La-144

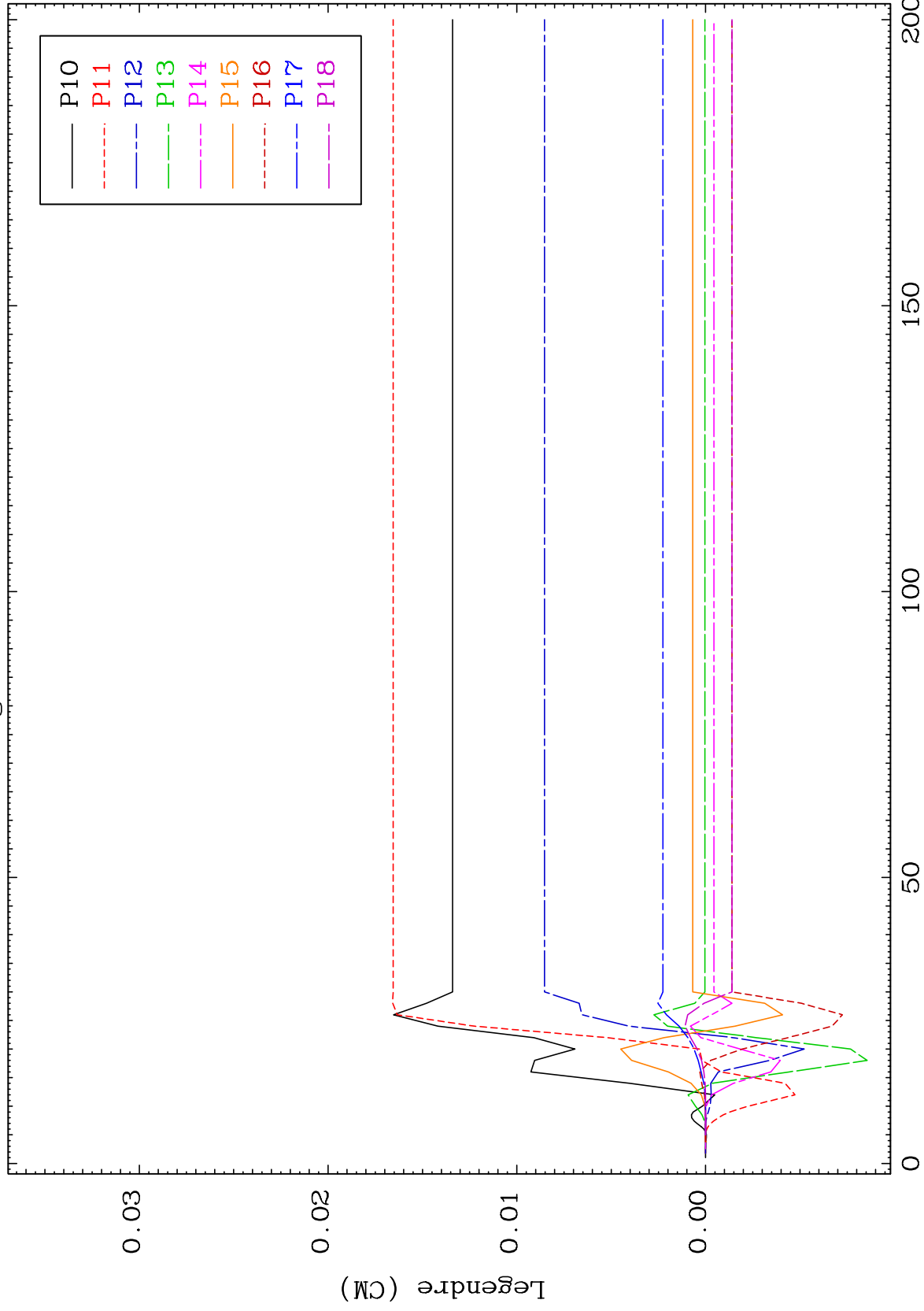
Incident Energy (MeV)

65

MAT 5743

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

57-La-144



66

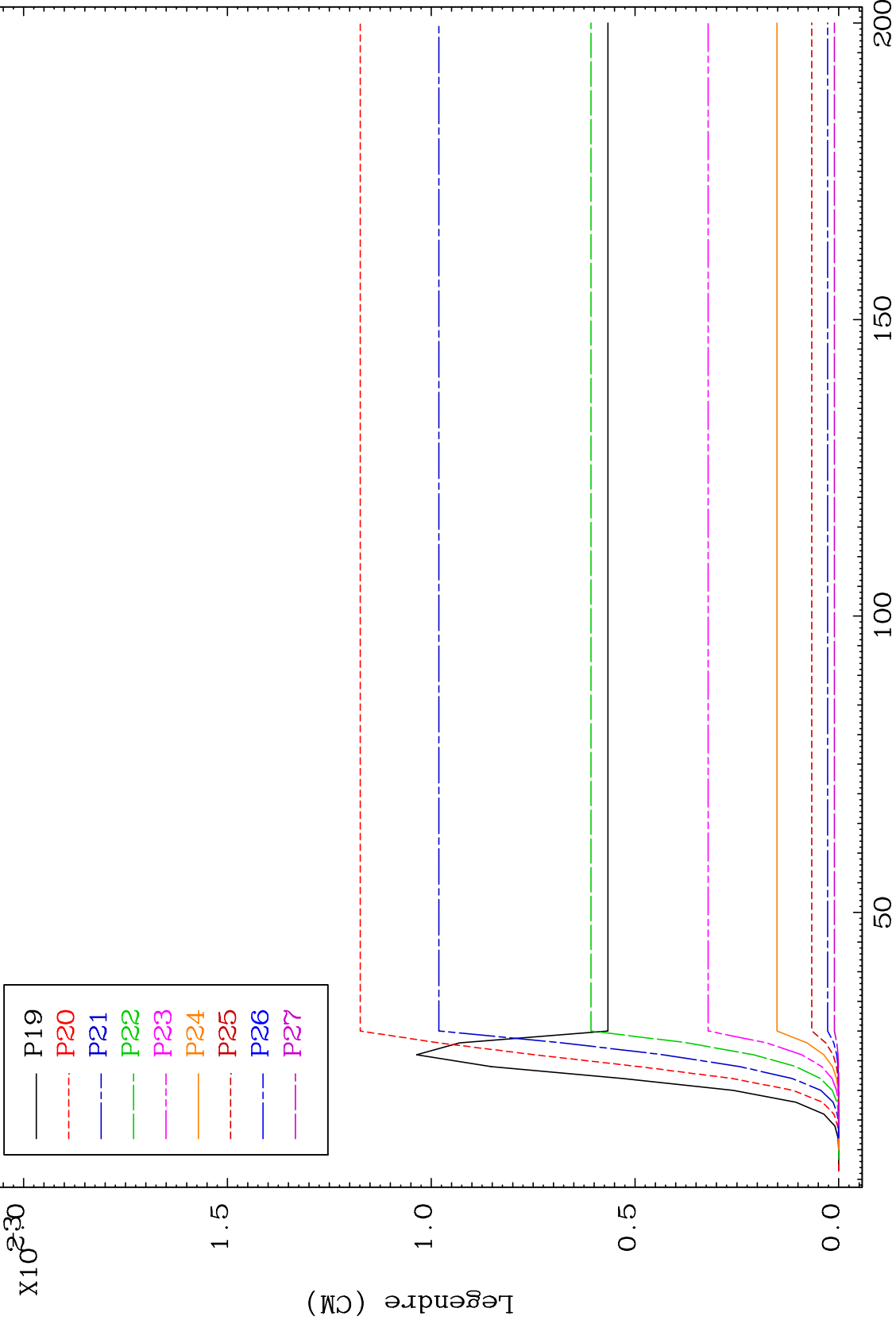
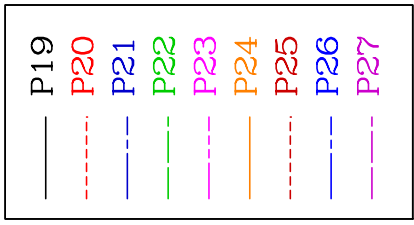
Incident Energy (MeV)

57-La-144

MAT 5743

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

57-La-144



67

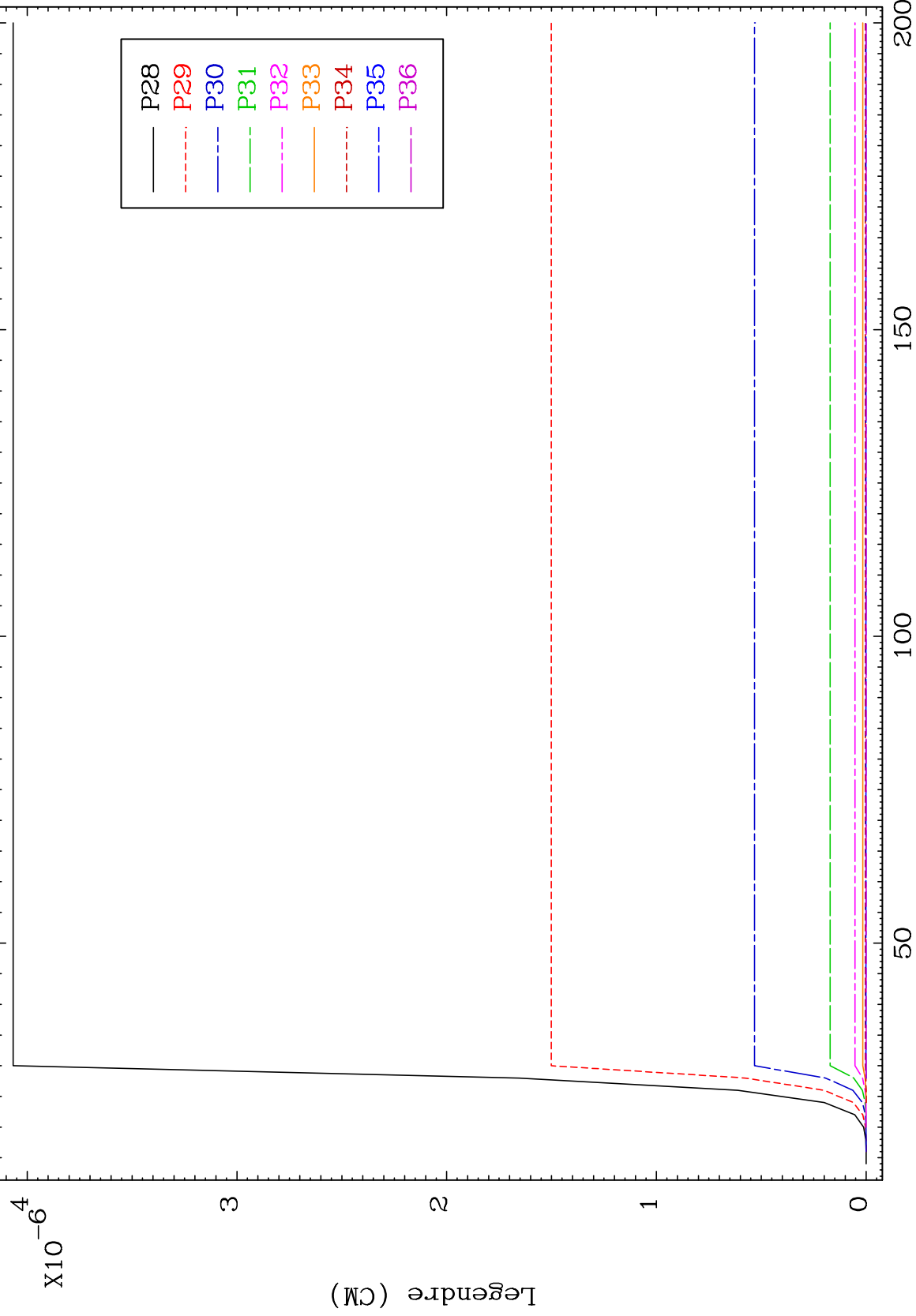
Incident Energy (MeV)

57-La-144

MAT 5743

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

57-La-144



68

Incident Energy (MeV)

57-La-144

200

150

100

50

4×10^{-6}

3

2

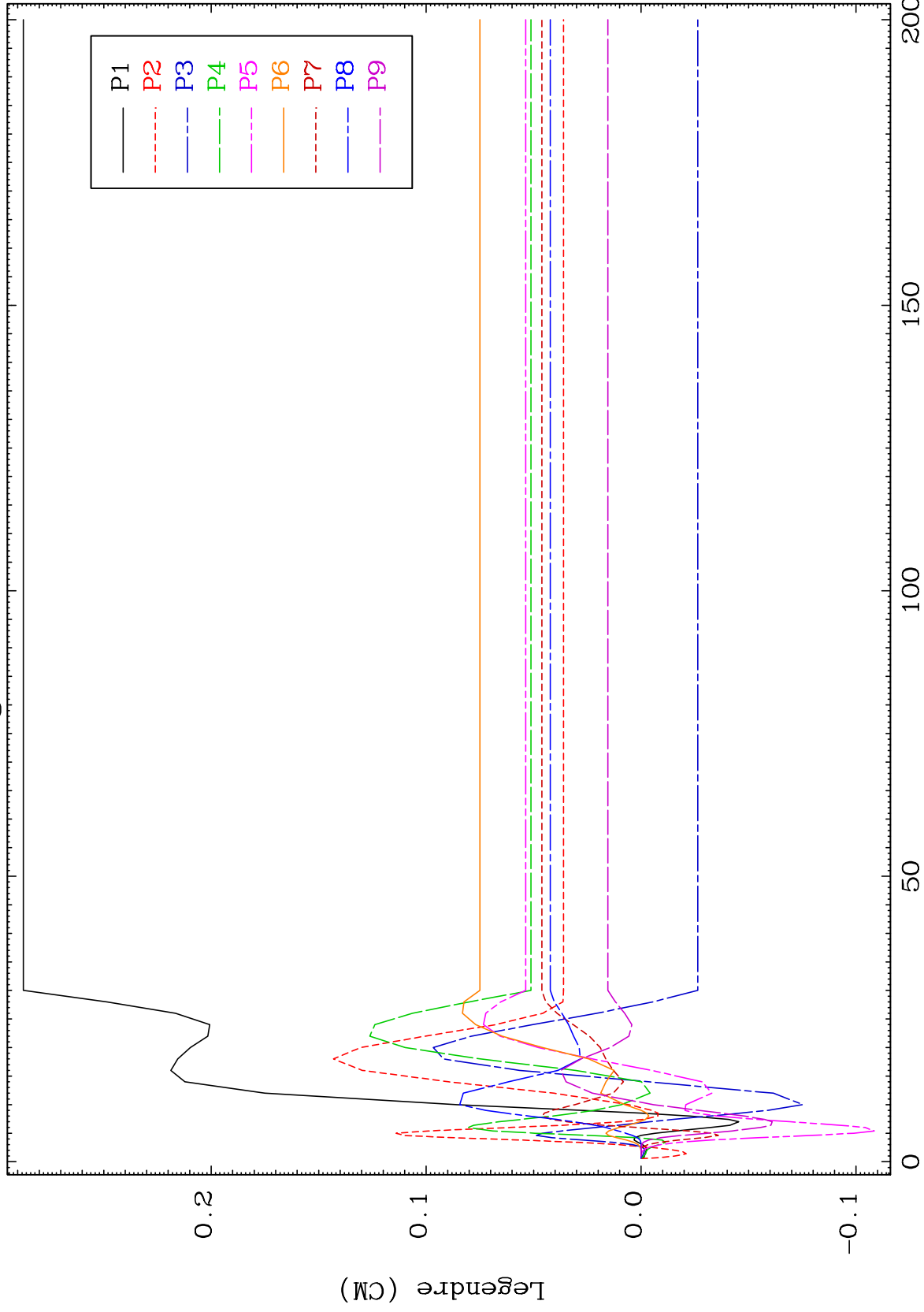
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MAT 5743

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

57-La-144



69

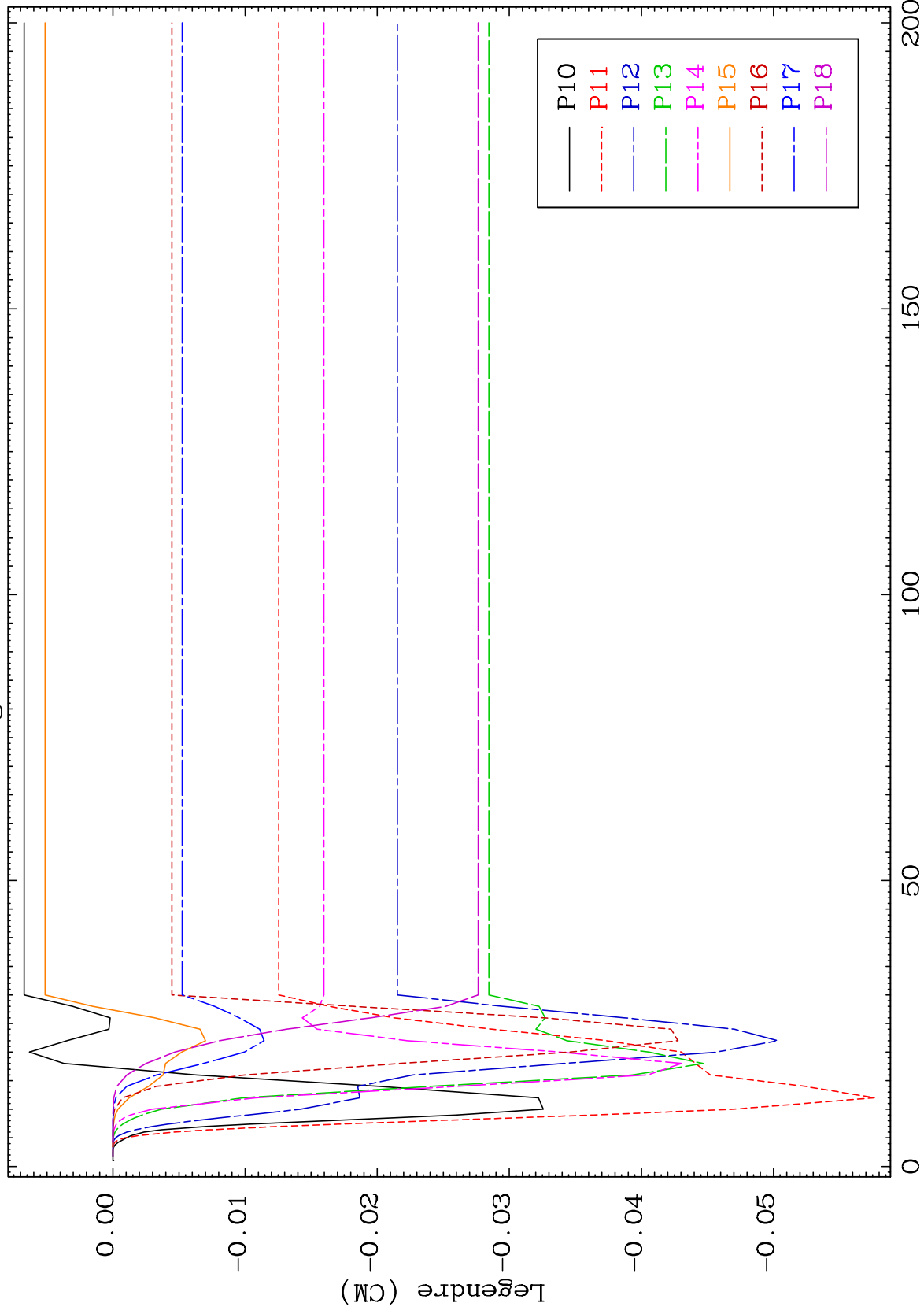
Incident Energy (MeV)

57-La-144

MAT 5743

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

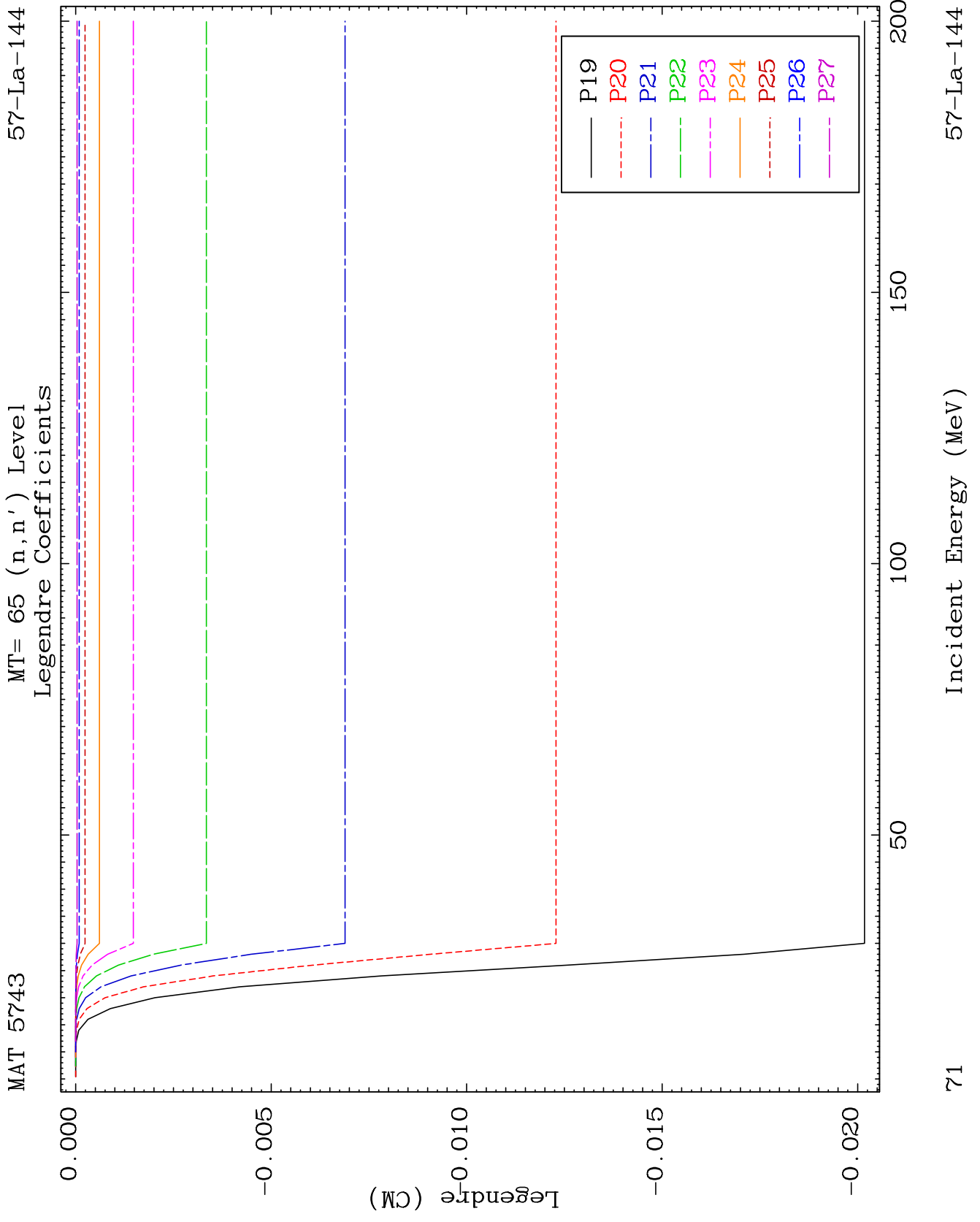
57-La-144

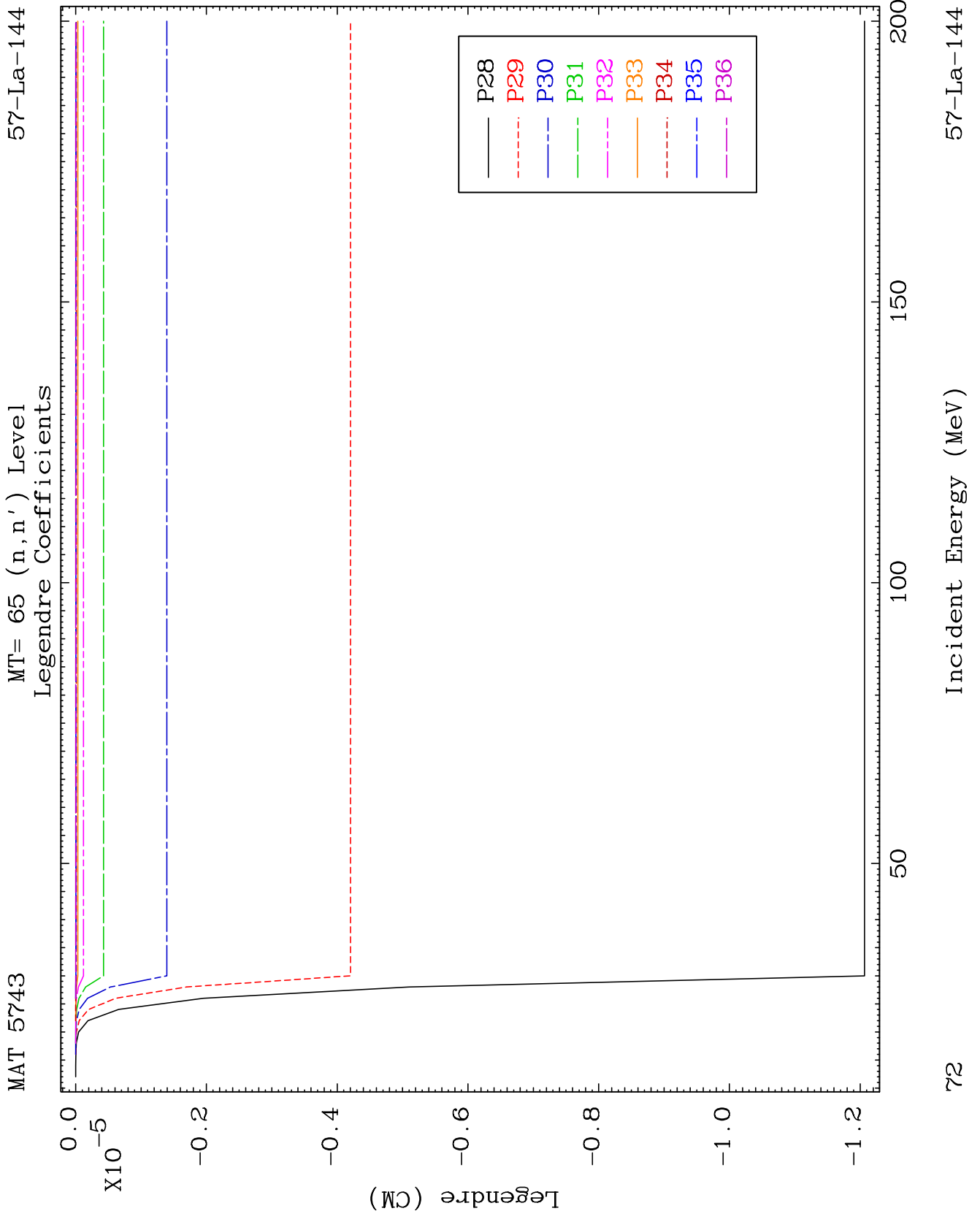


70

Incident Energy (MeV)

57-La-144

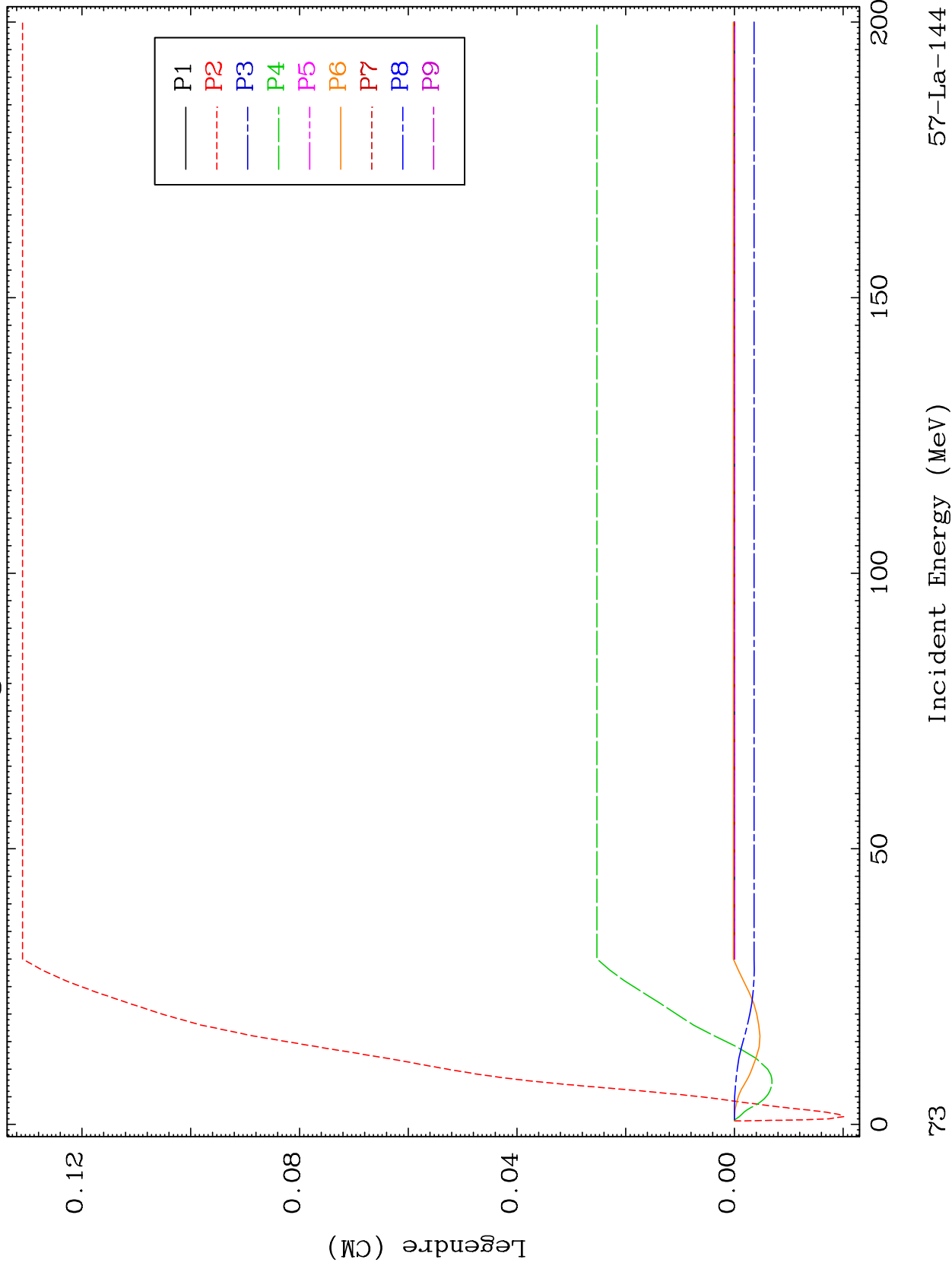




MAT 5743

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

57-La-144



57-La-144

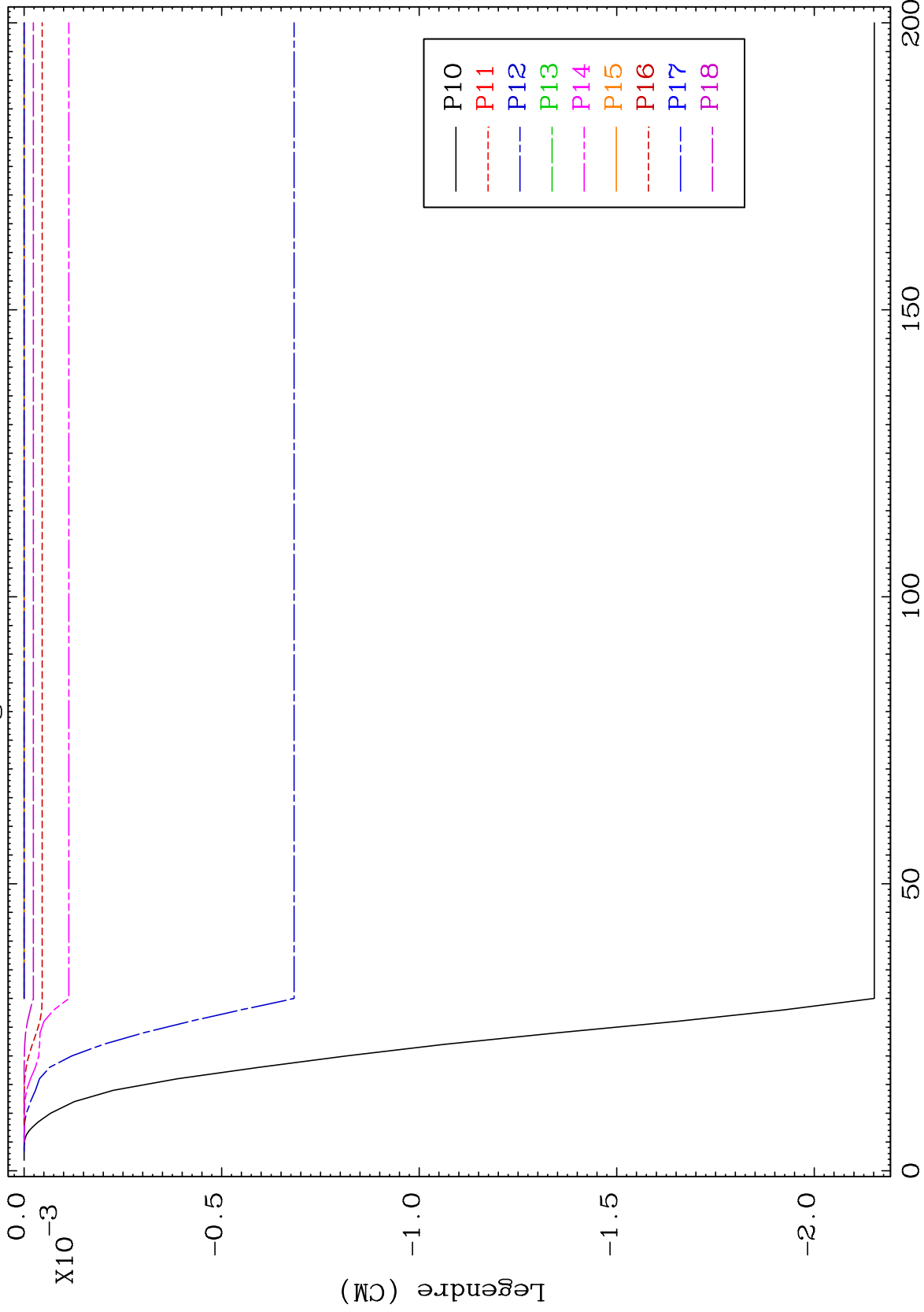
Incident Energy (MeV)

73

MAT 5743

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

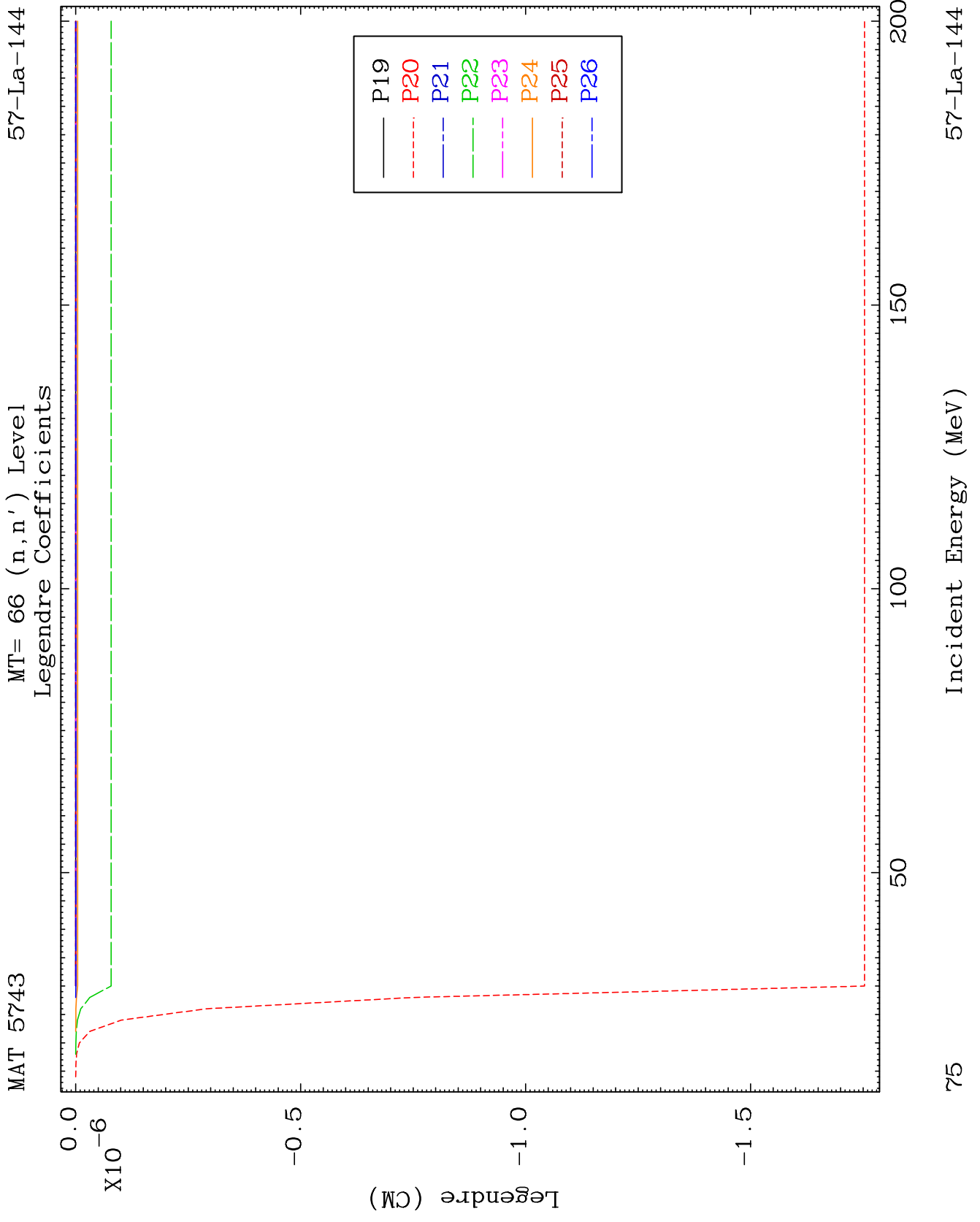
57-La-144



74

Incident Energy (MeV)

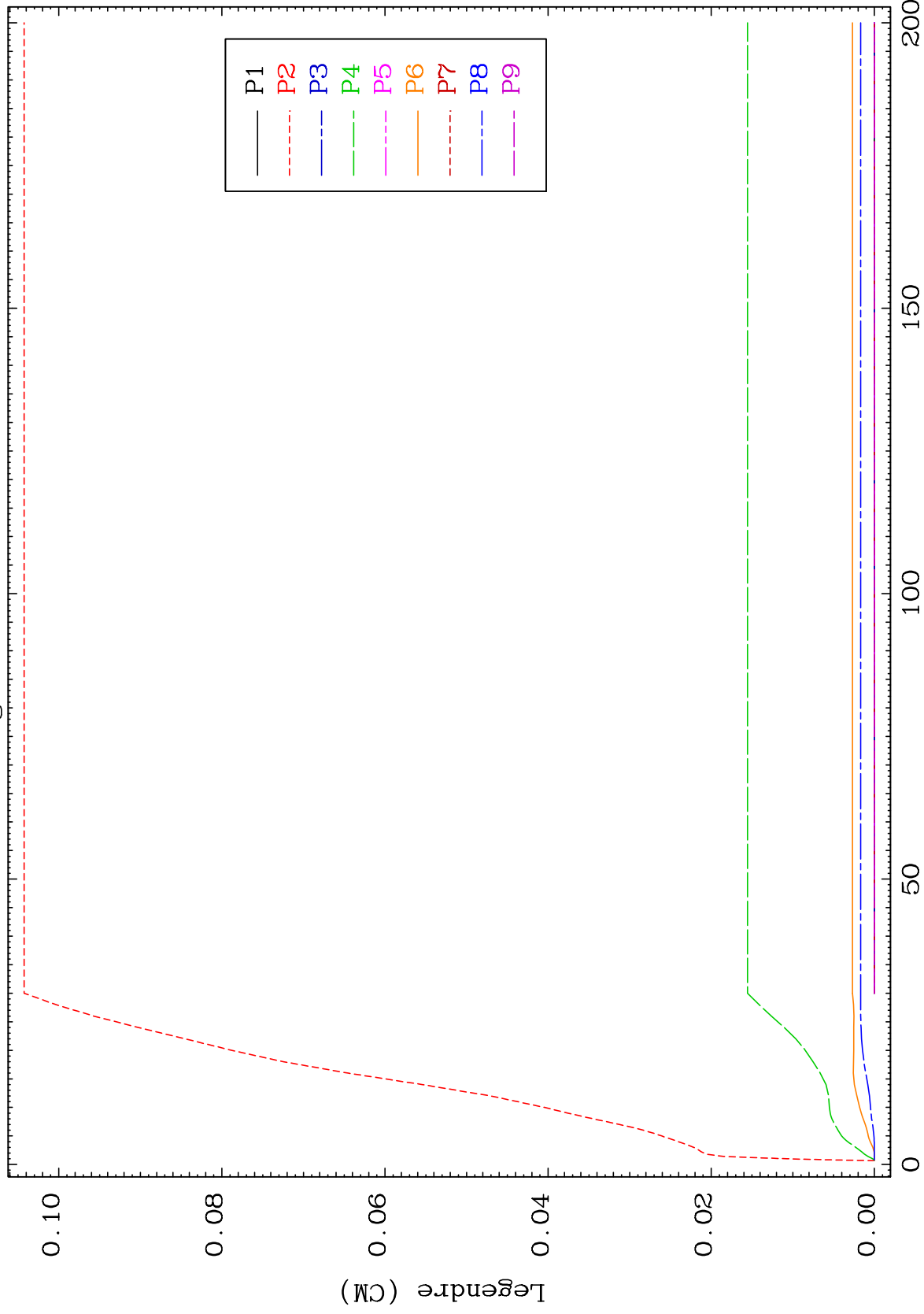
57-La-144



MAT 5743

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

57-La-144



76

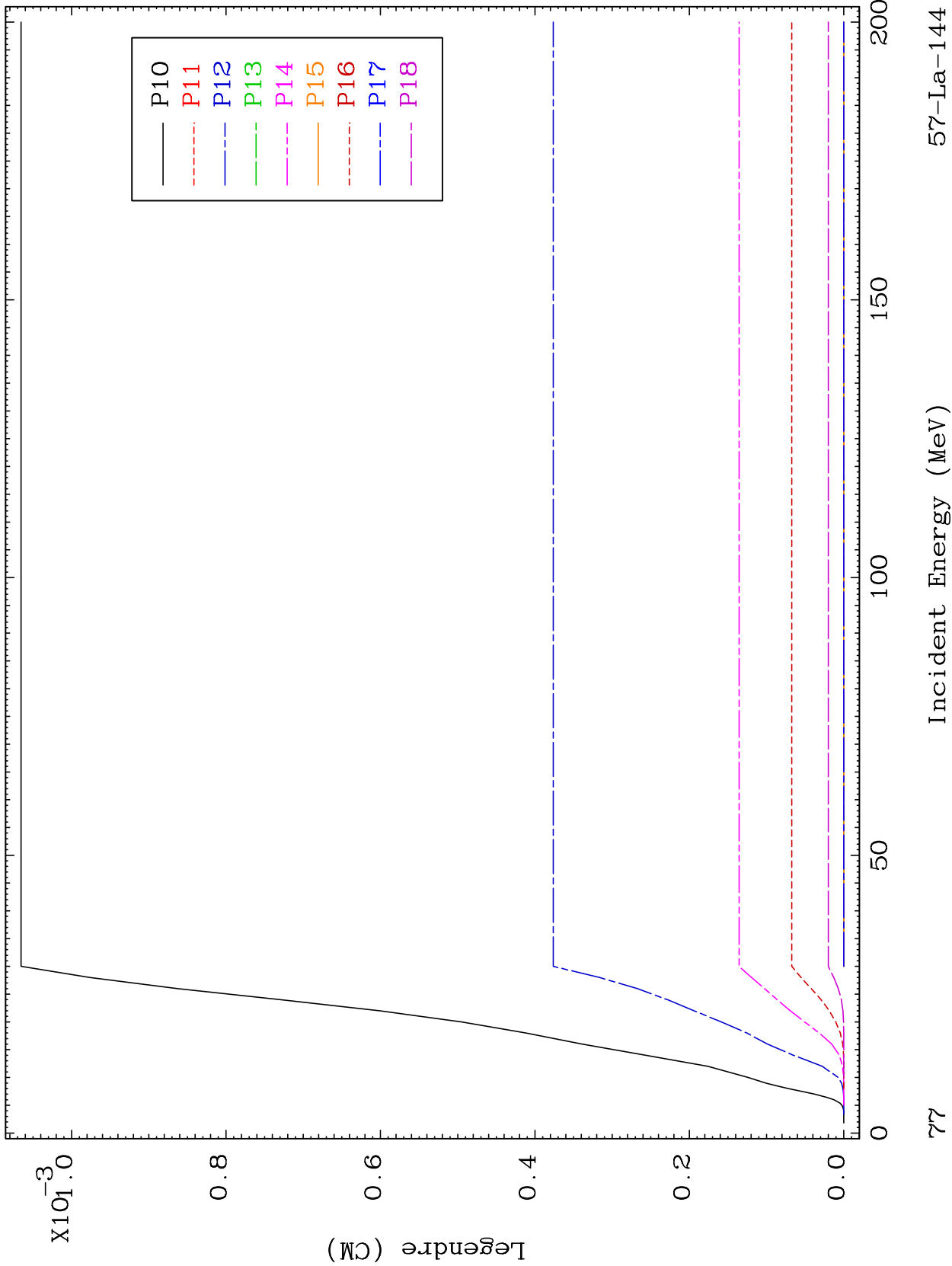
Incident Energy (MeV)

57-La-144

MAT 5743

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

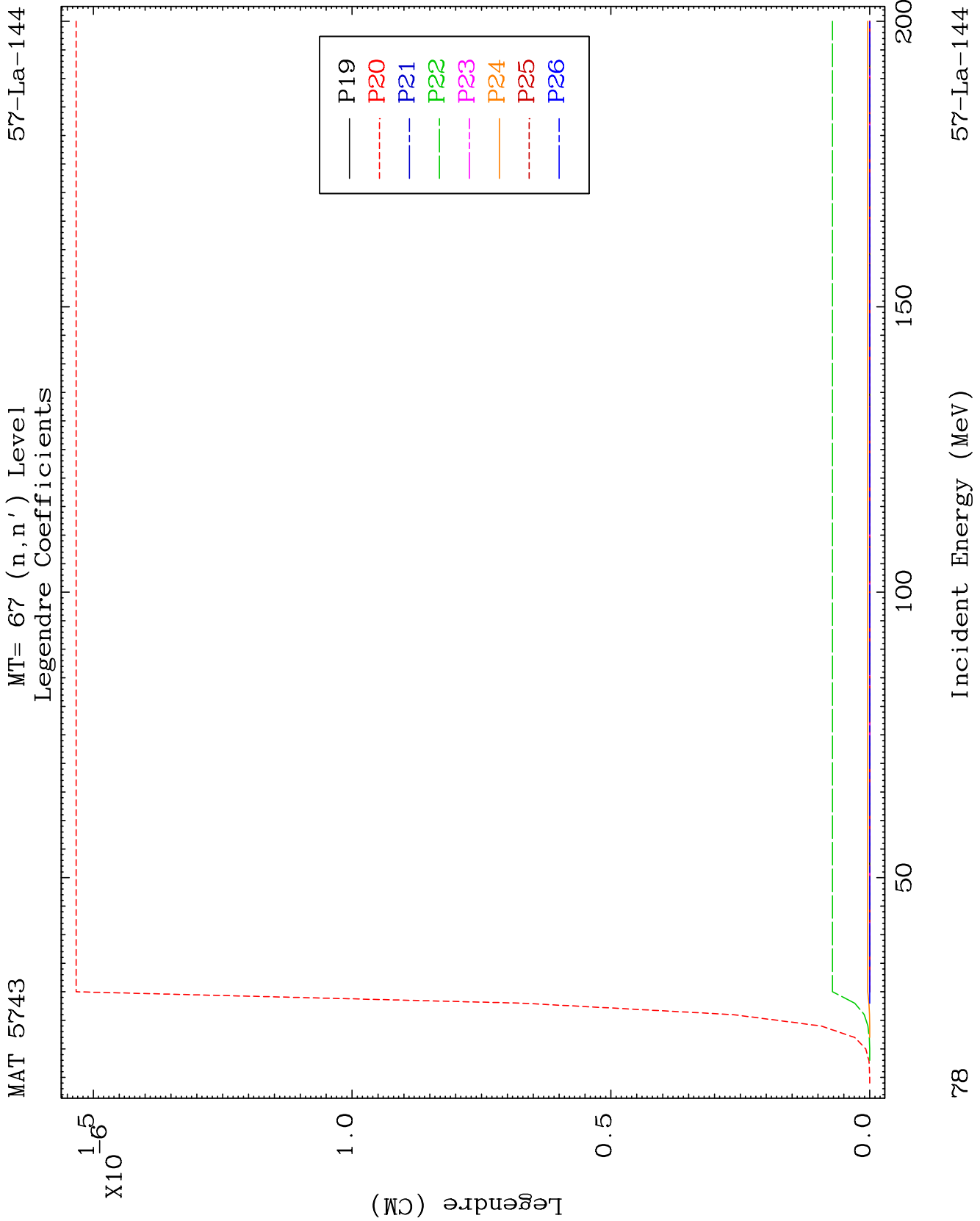
57-La-144

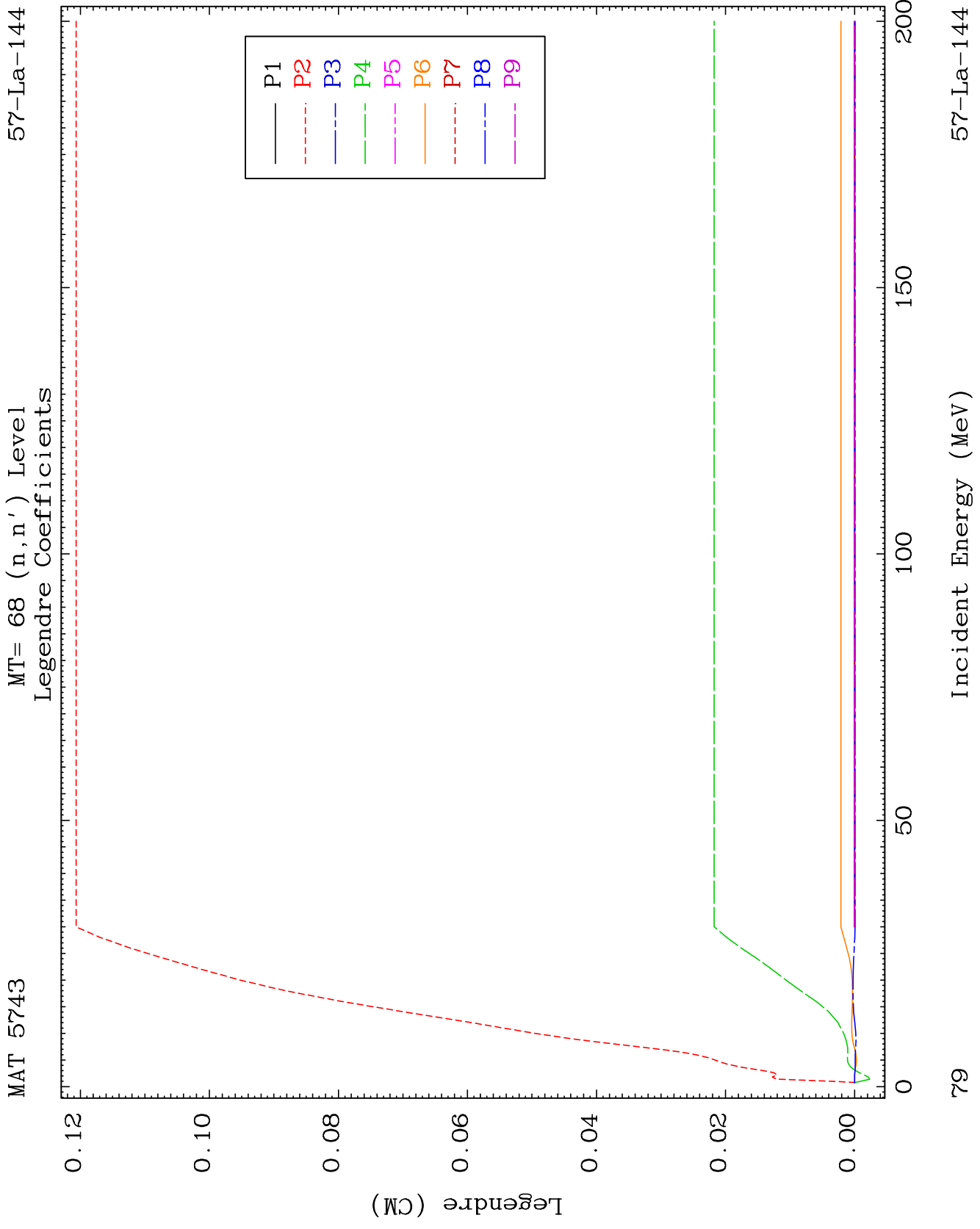


77

Incident Energy (MeV)

57-La-144

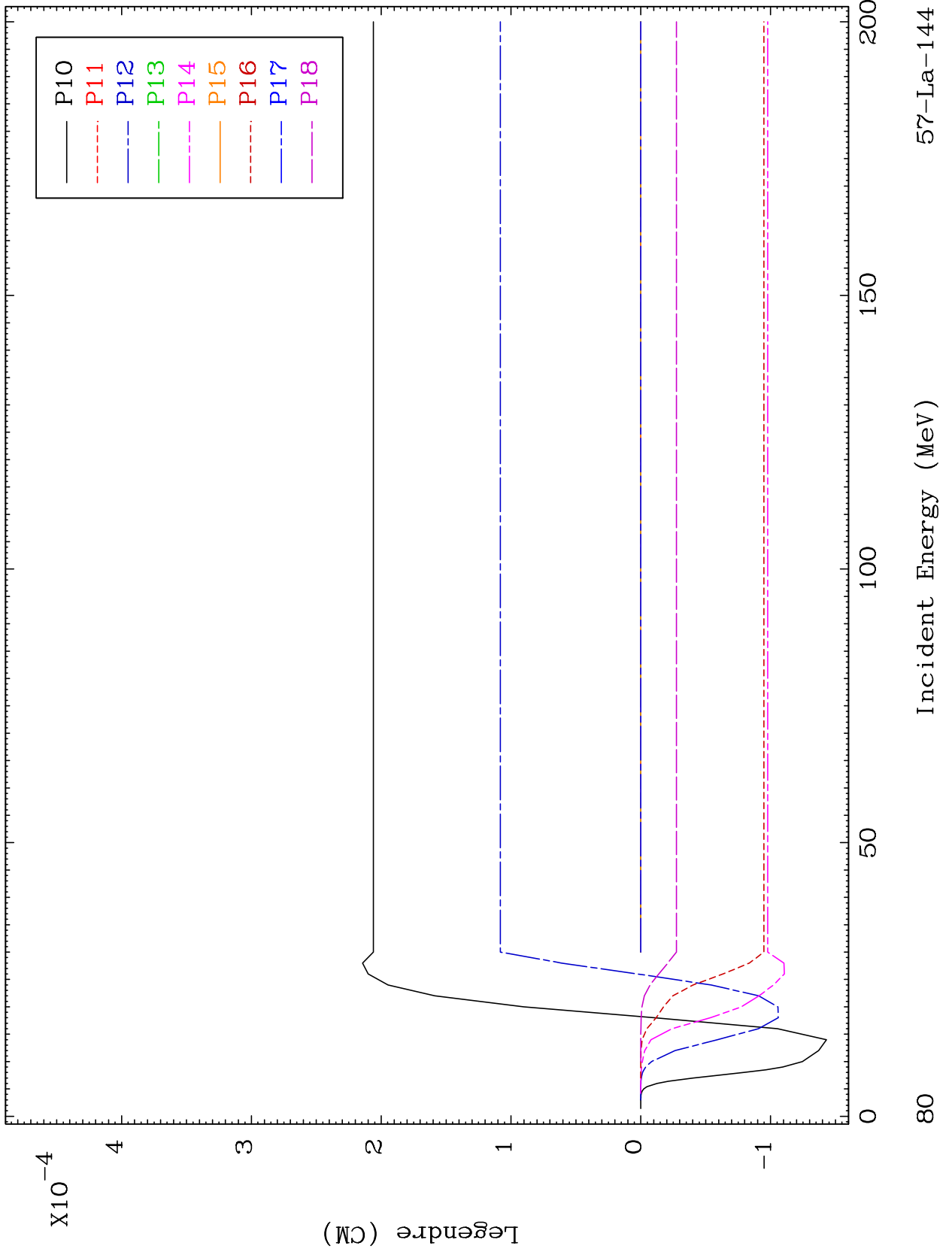




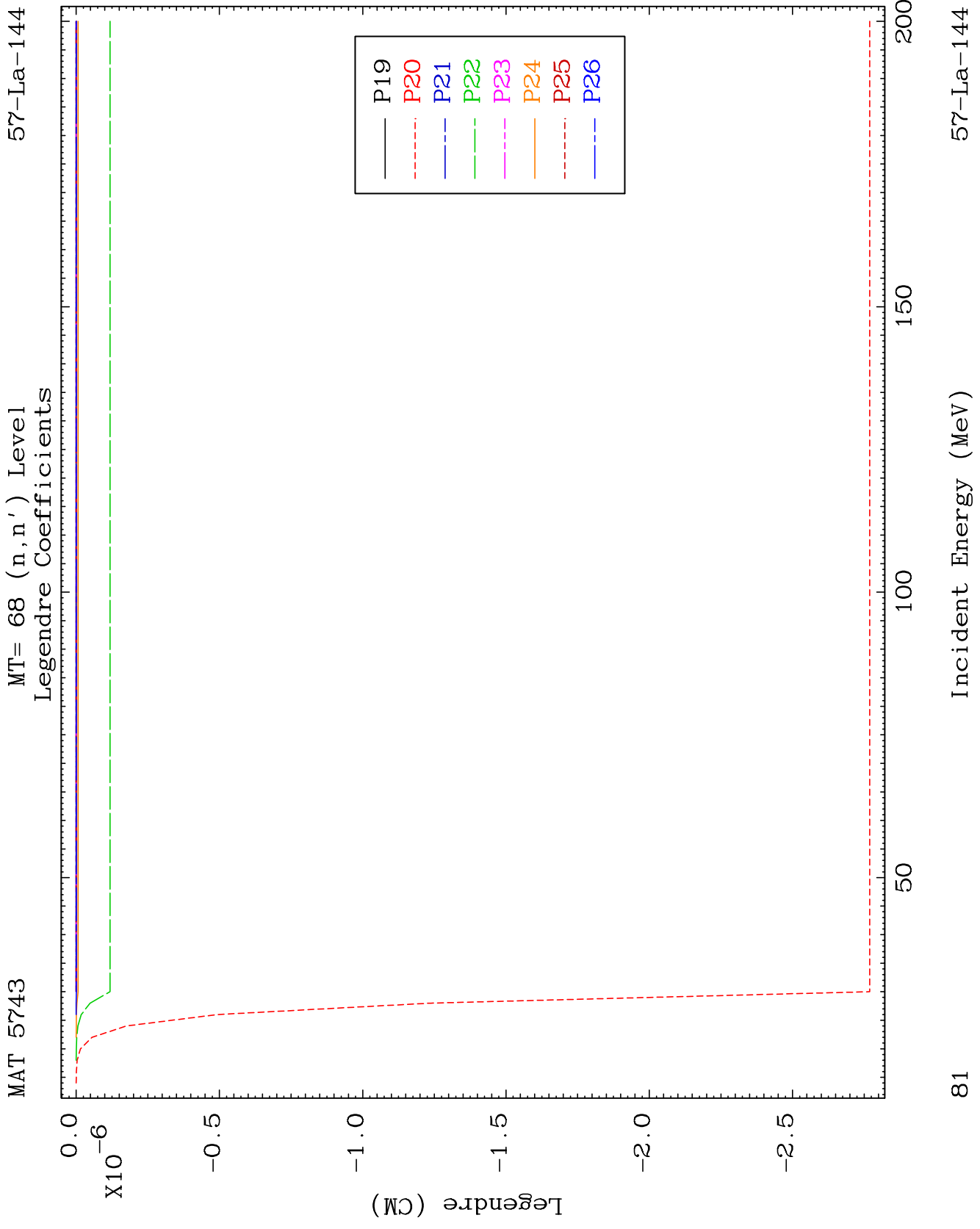
MAT 5743

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

57-La-144



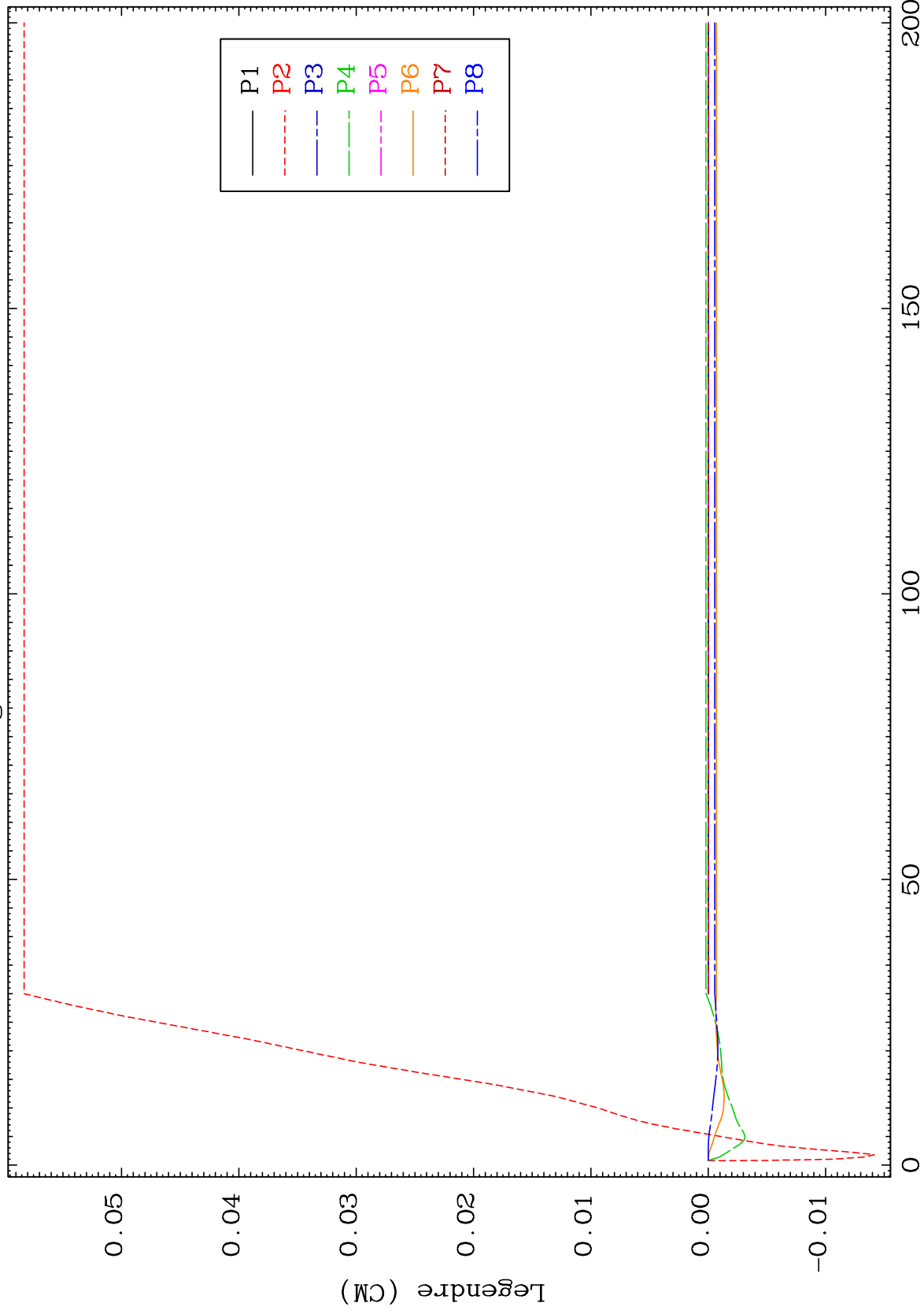
57-La-144



MAT 5743

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

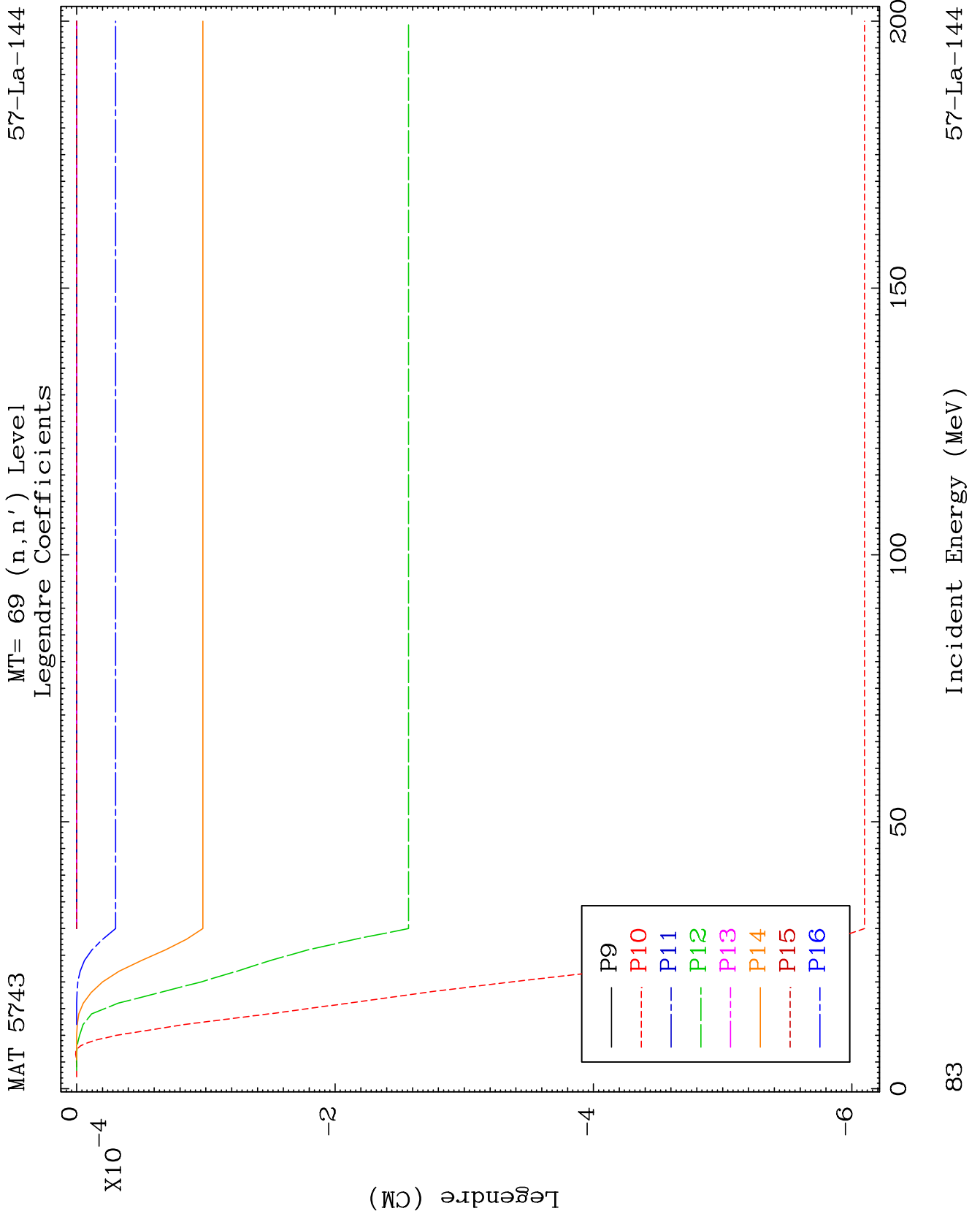
57-La-144



57-La-144

Incident Energy (MeV)

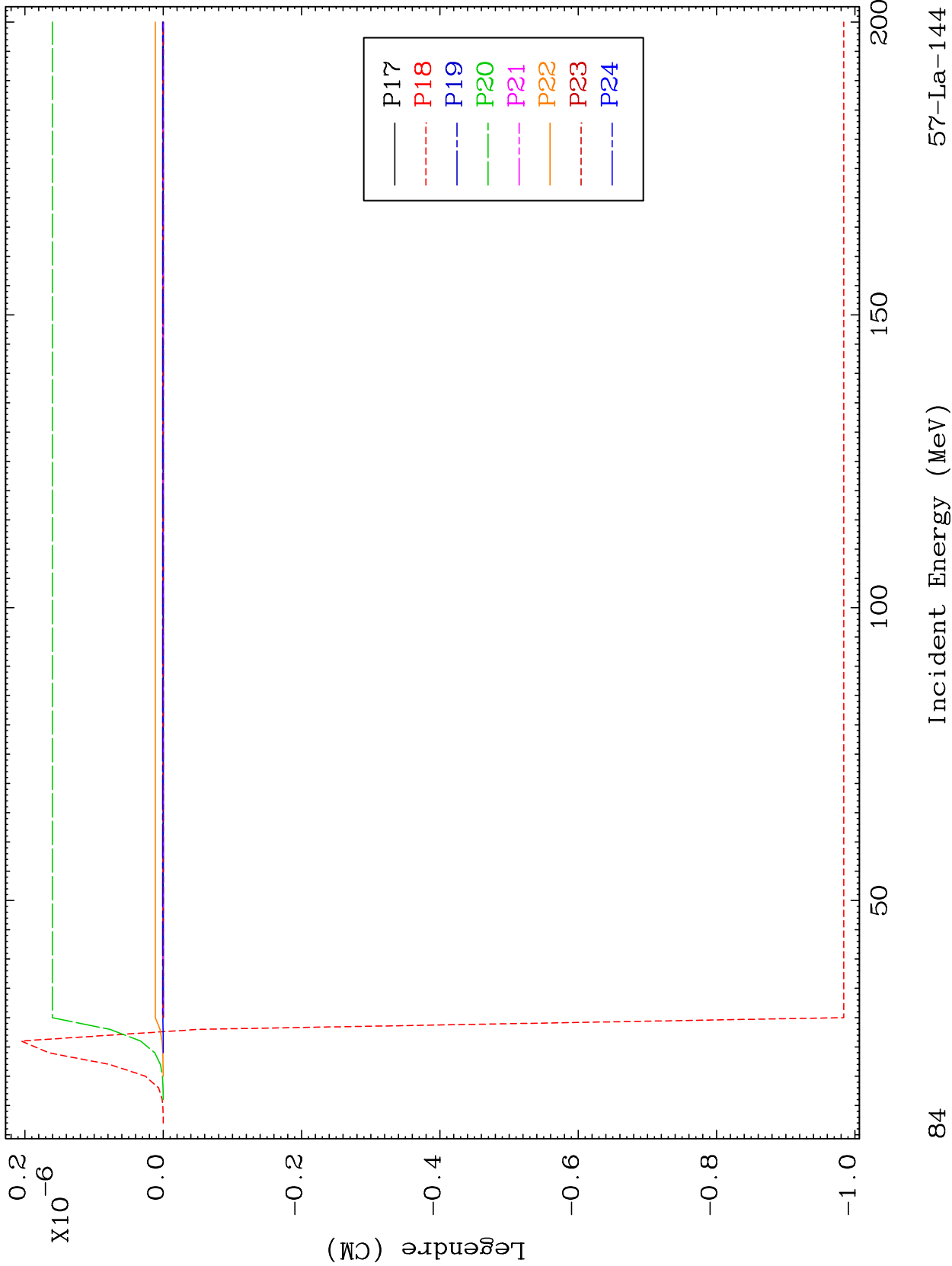
82



MAT 5743

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

57-La-144



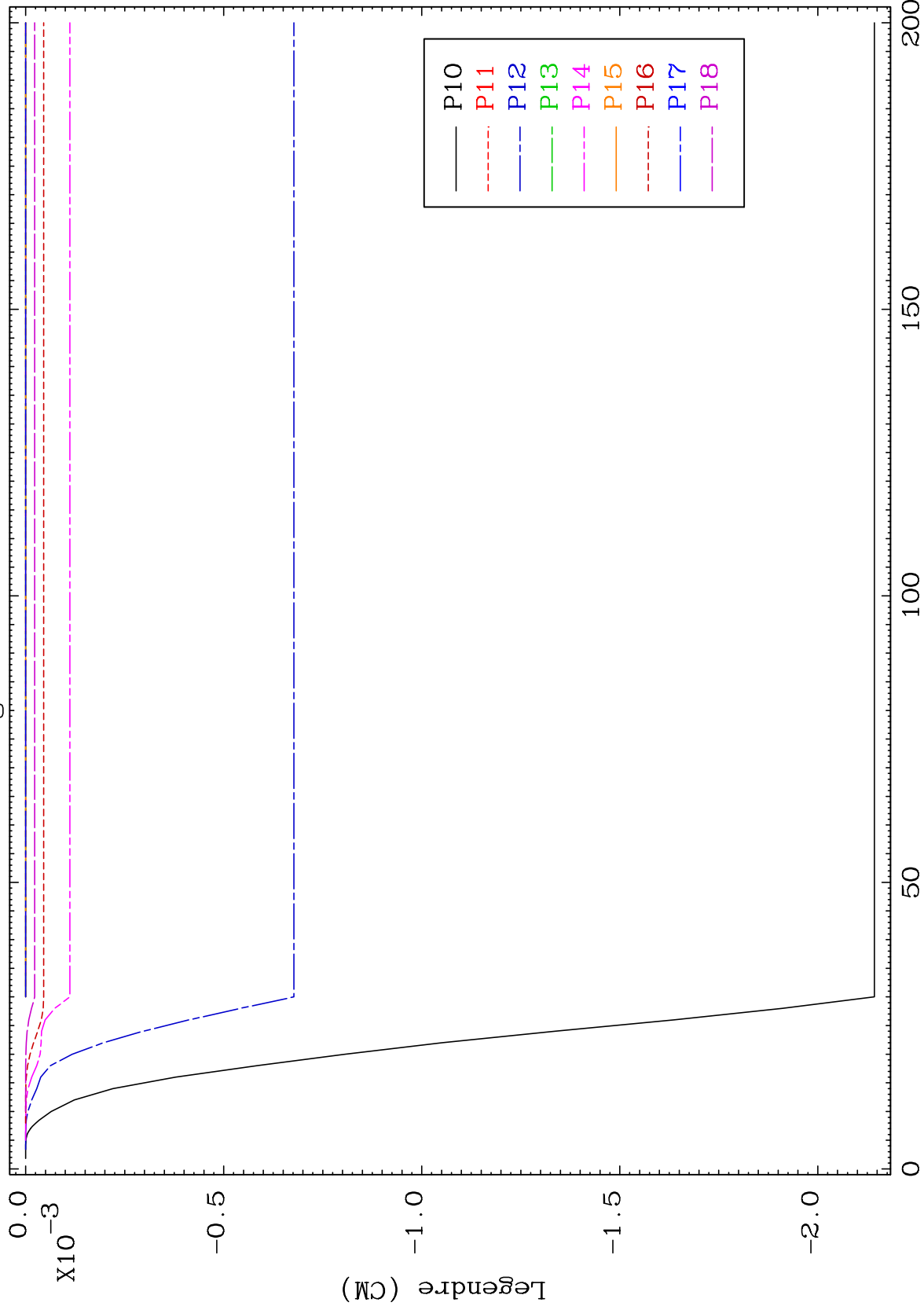
84

57-La-144

MAT 5743

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

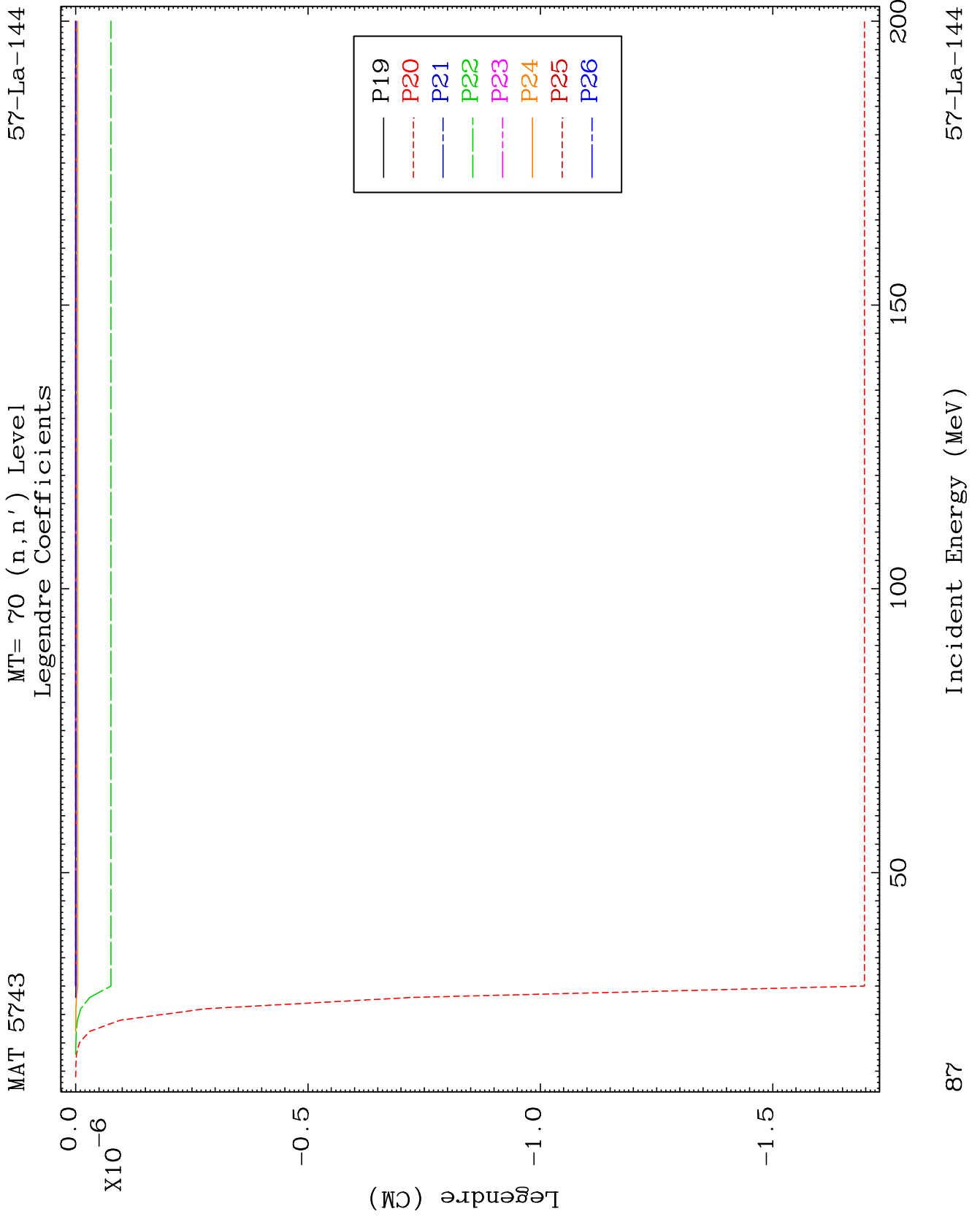
57-La-144



86

Incident Energy (MeV)

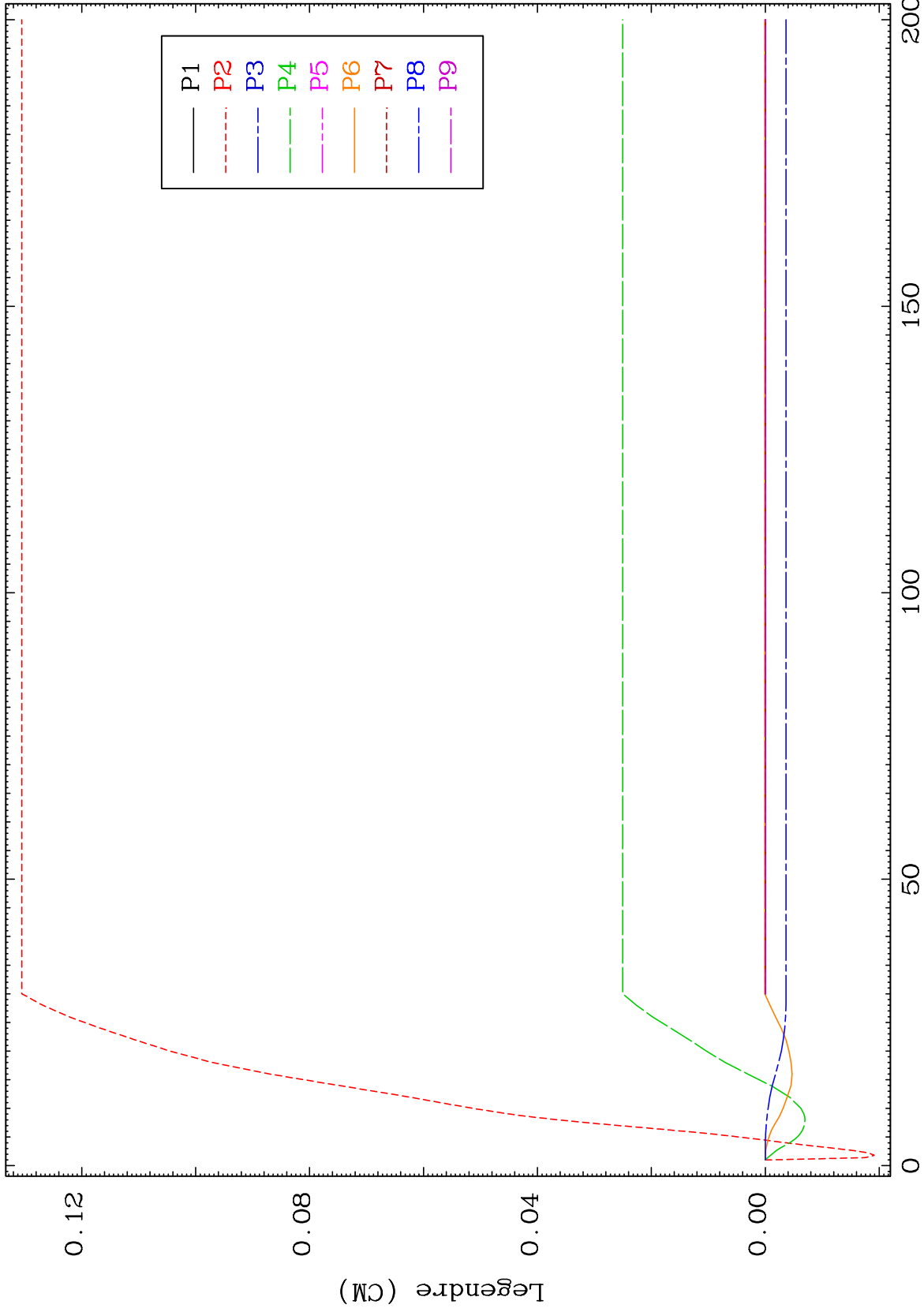
57-La-144



MAT 5743

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

57-La-144



57-La-144

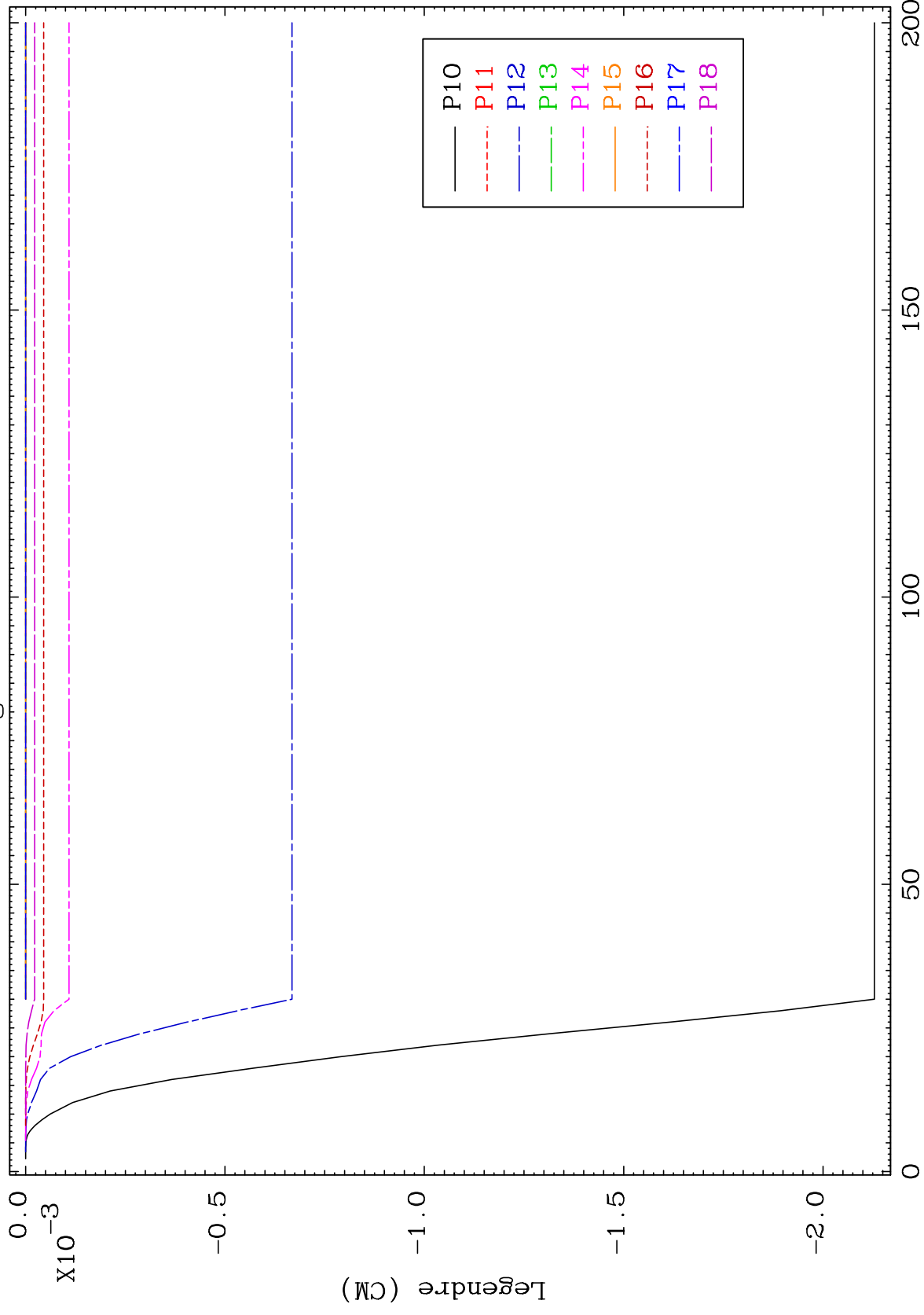
Incident Energy (MeV)

88

MAT 5743

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

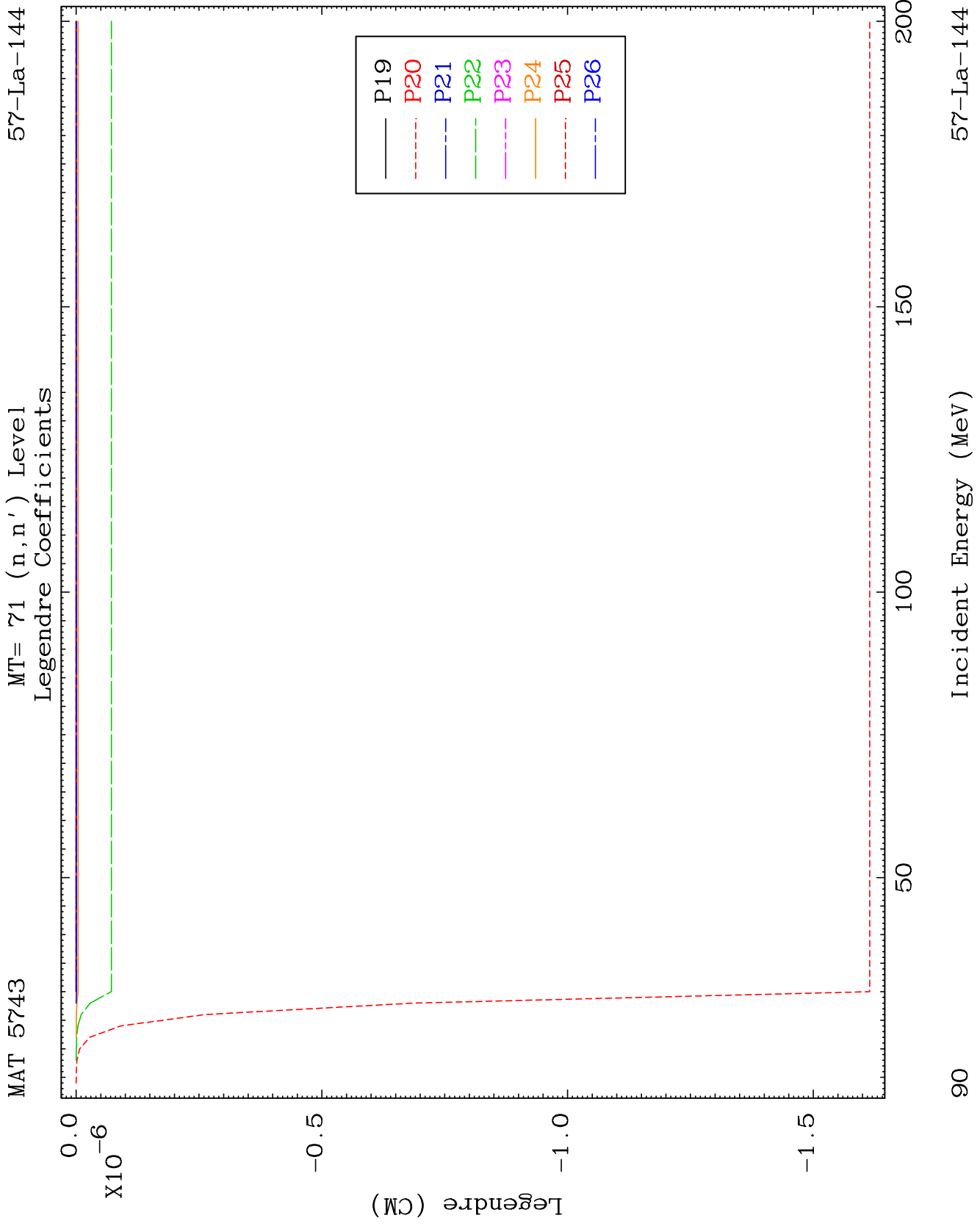
57-La-144



89

Incident Energy (MeV)

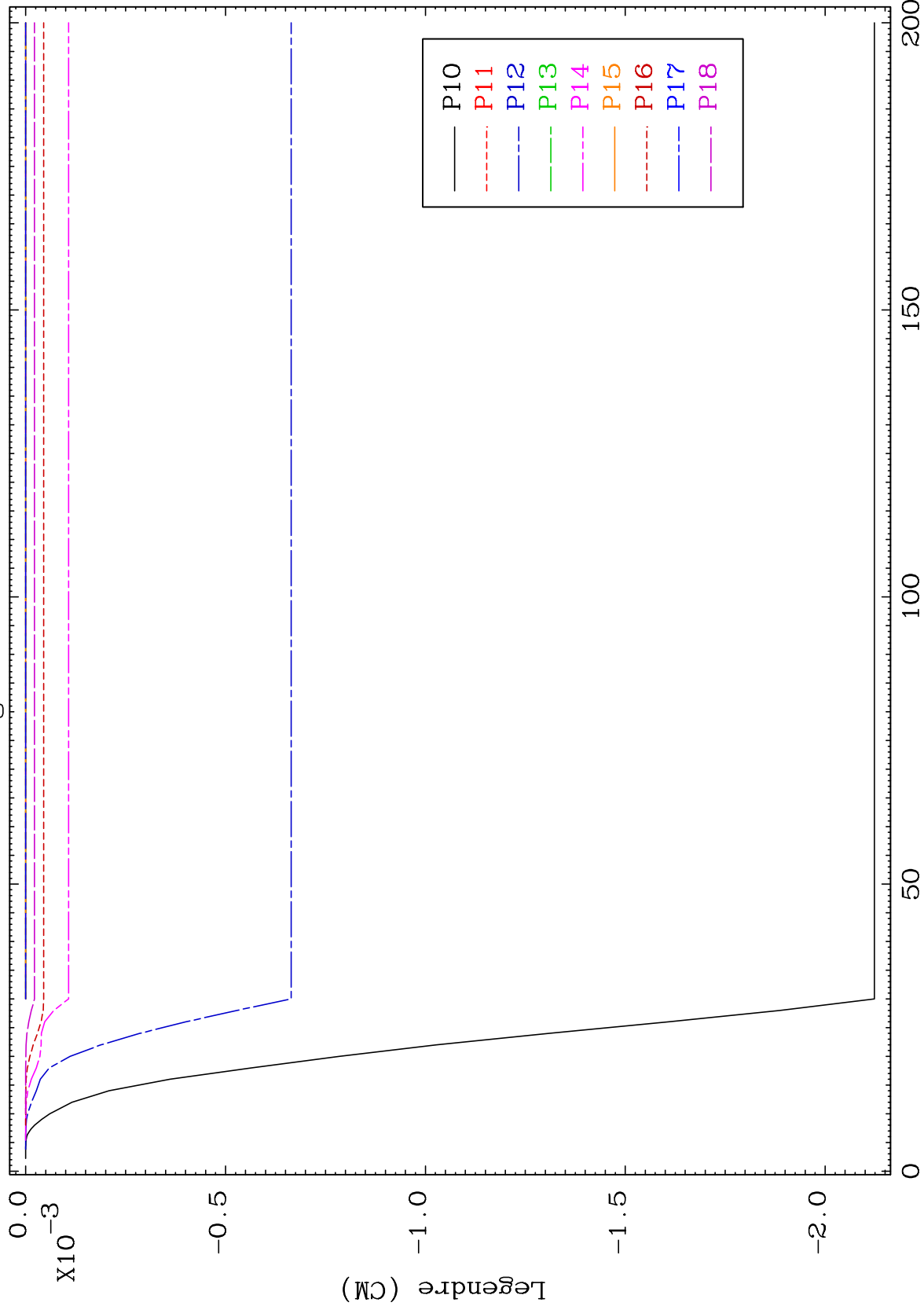
57-La-144



MAT 5743

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

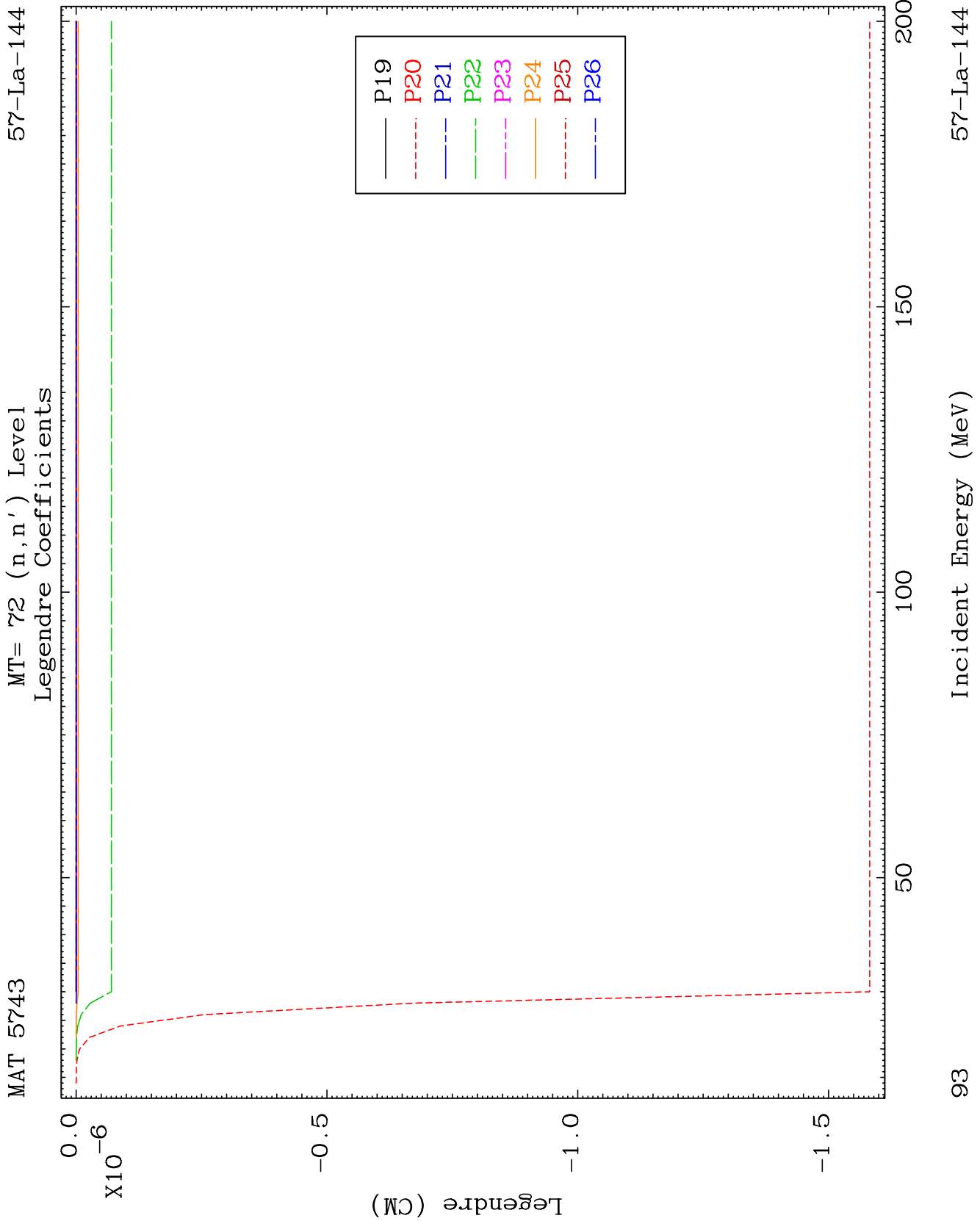
57-La-144



92

Incident Energy (MeV)

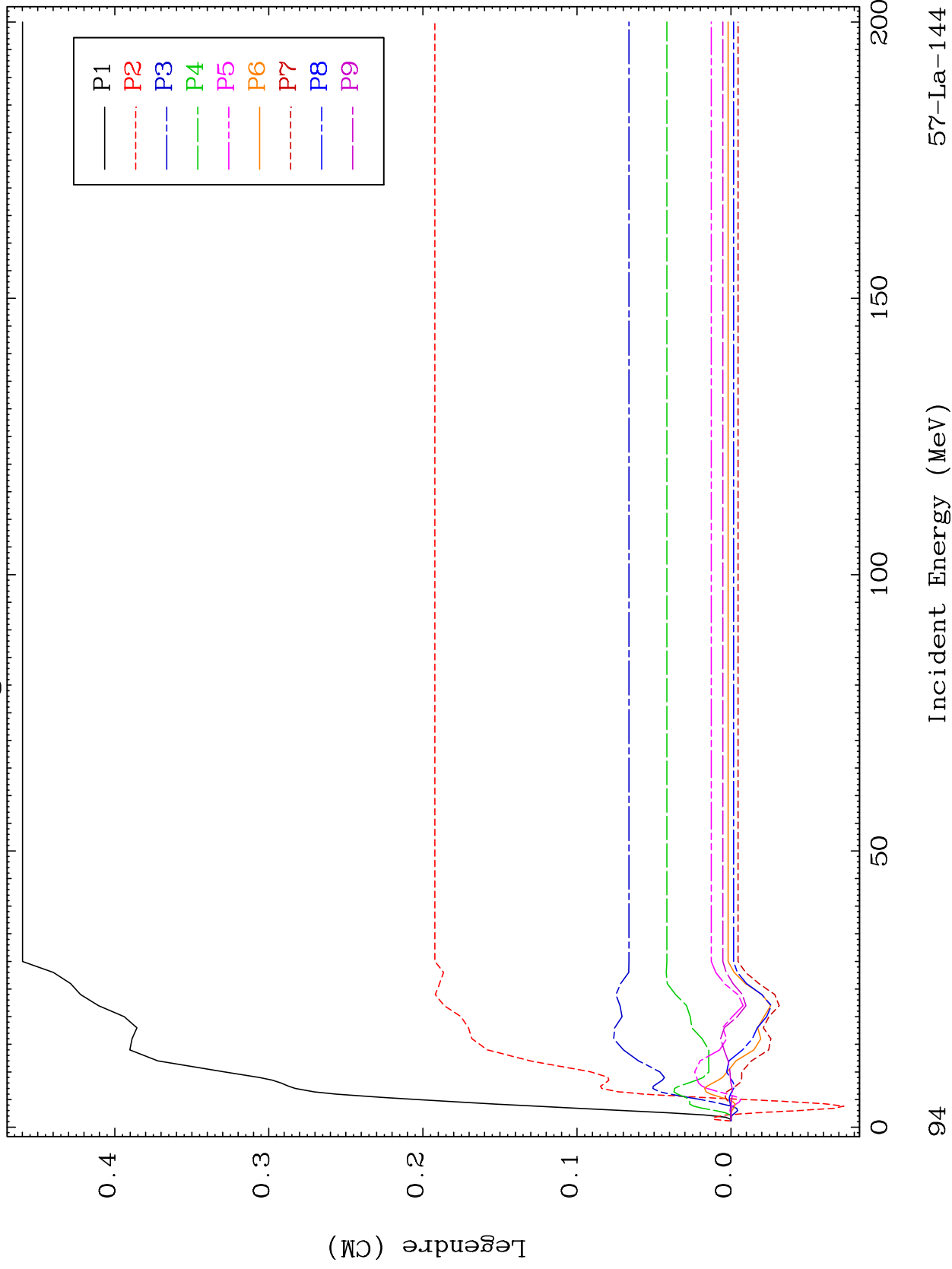
57-La-144



MAT 5743

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

57-La-144



57-La-144

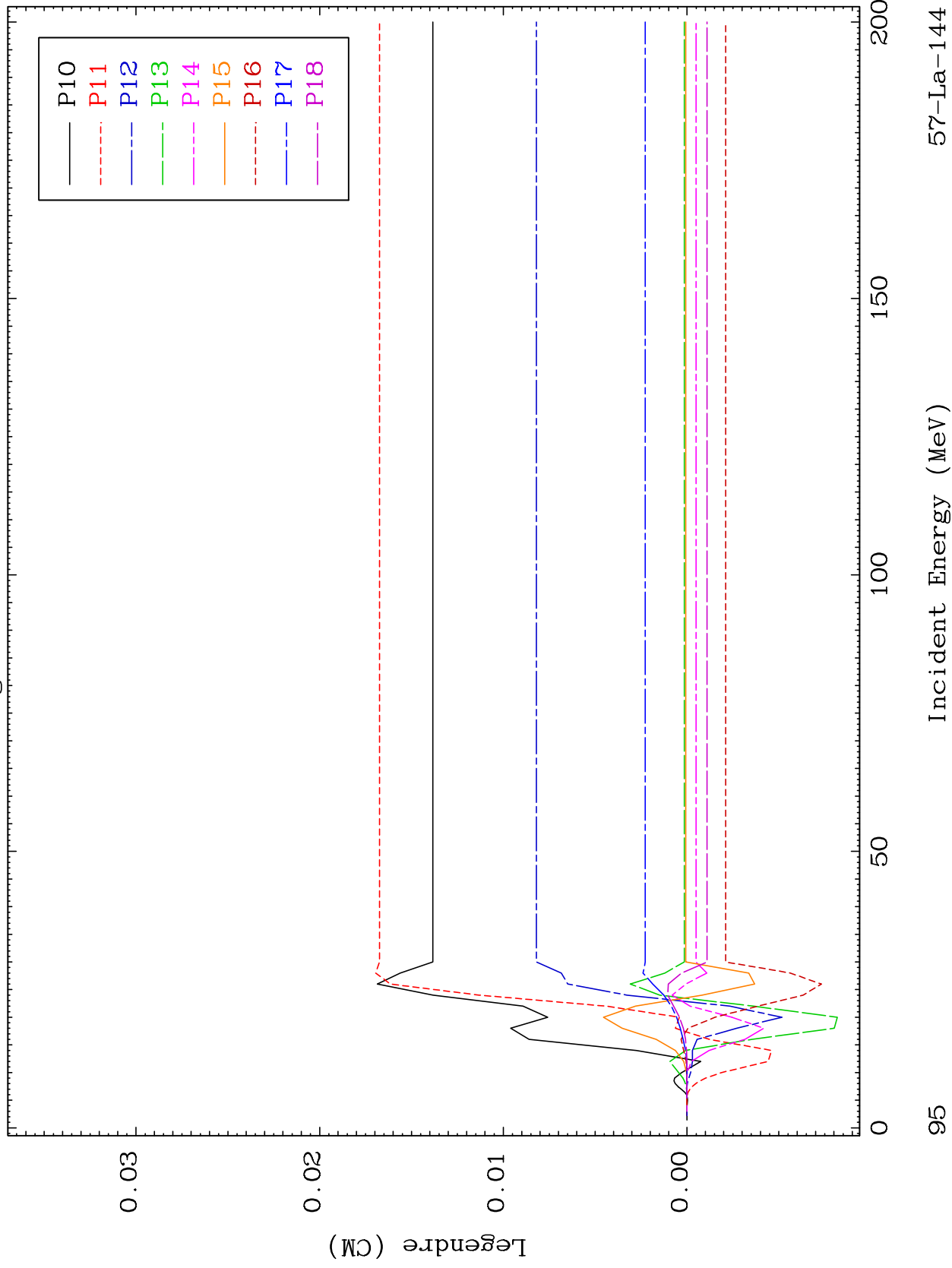
Incident Energy (MeV)

94

MAT 5743

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

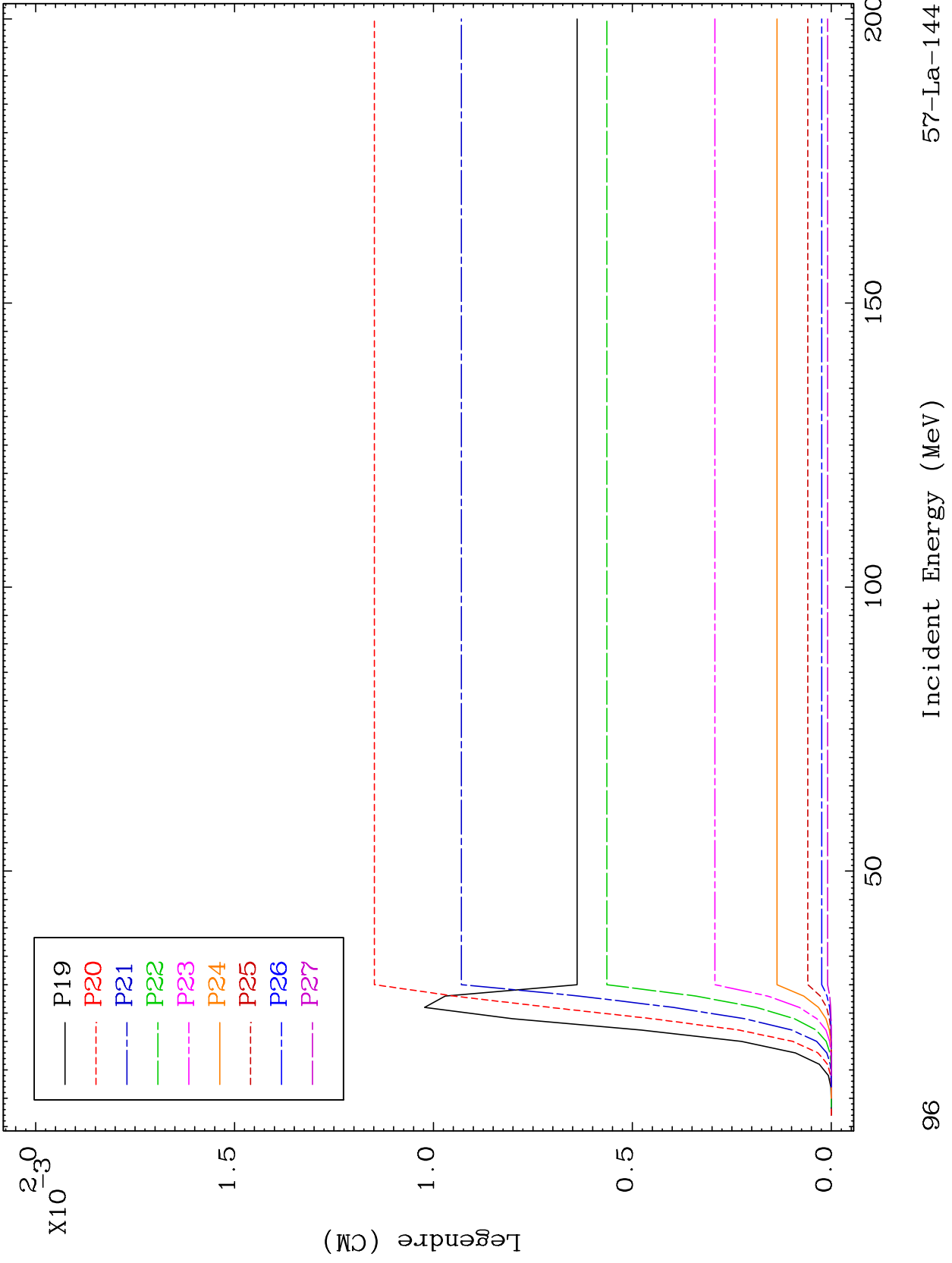
57-La-144



57-La-144

Incident Energy (MeV)

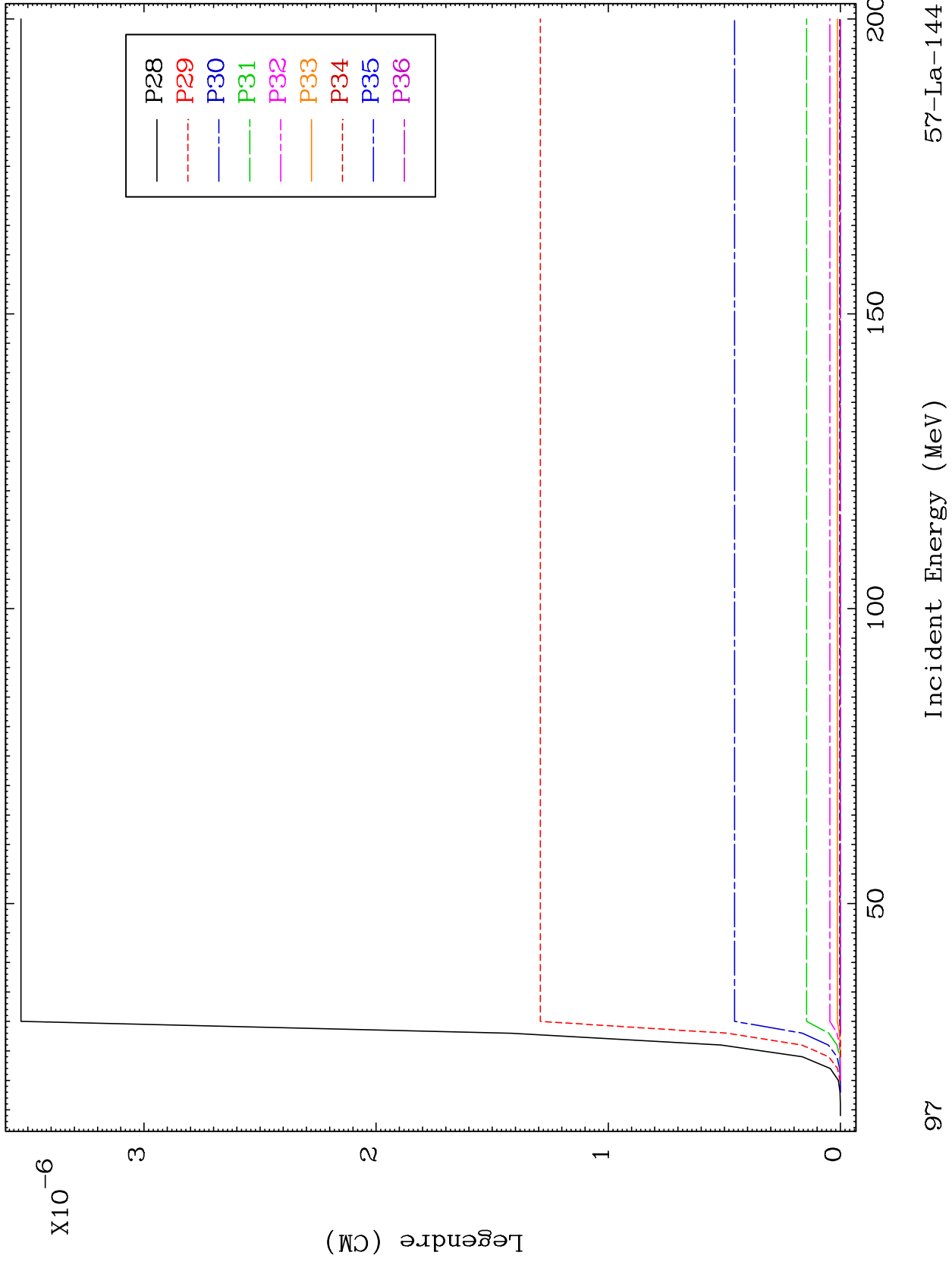
95



MAT 5743

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

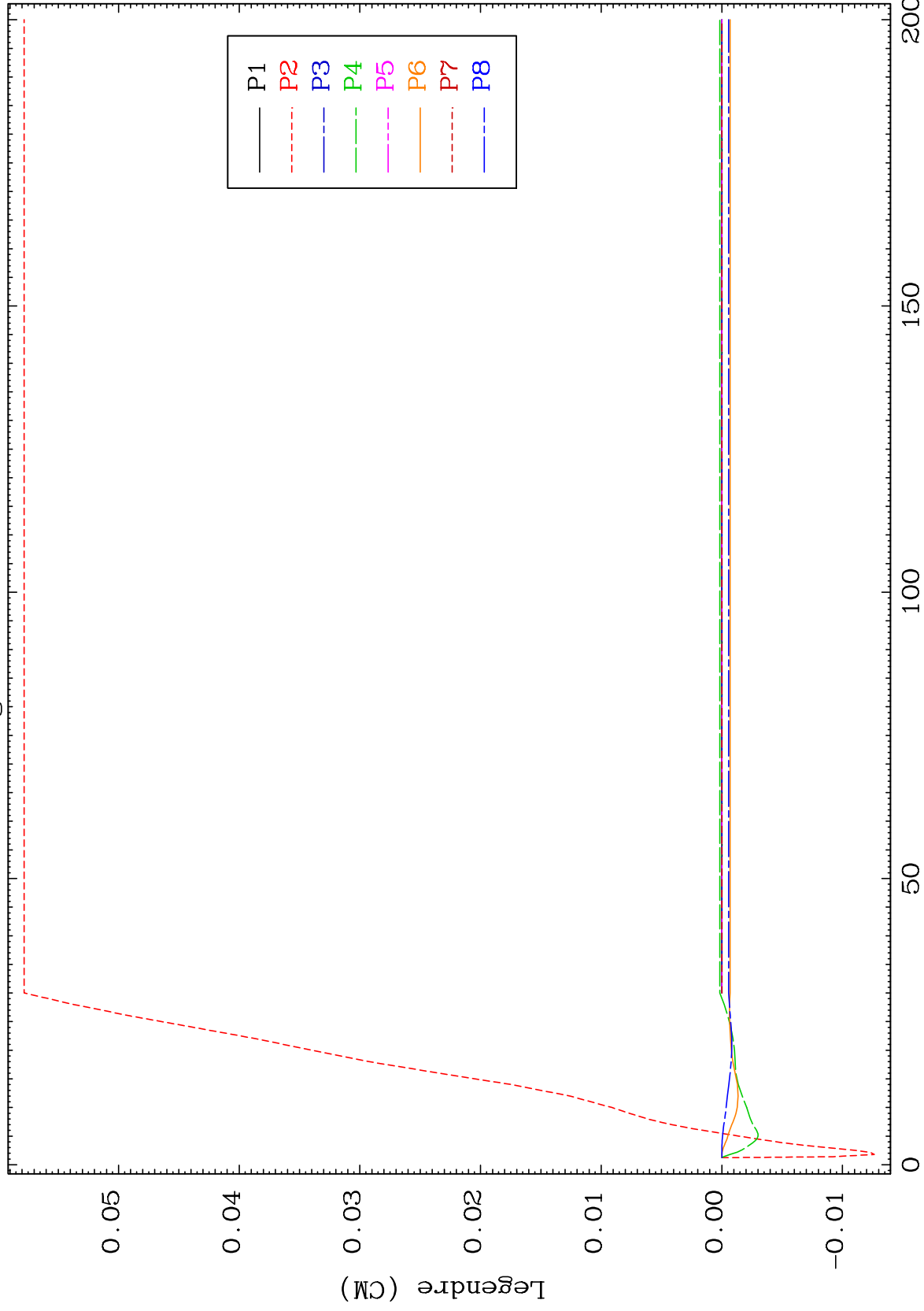
57-La-144



MAT 5743

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

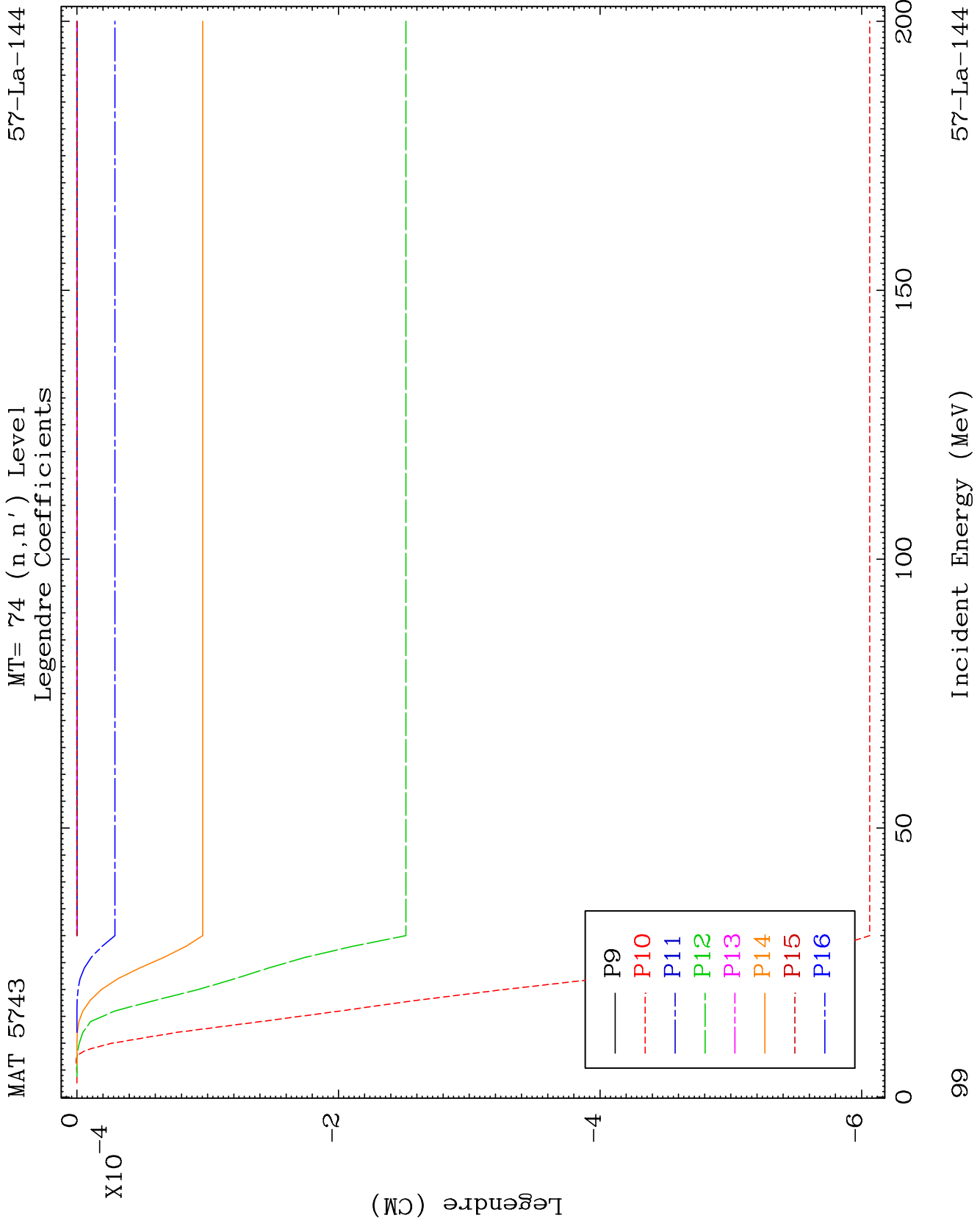
57-La-144



98

Incident Energy (MeV)

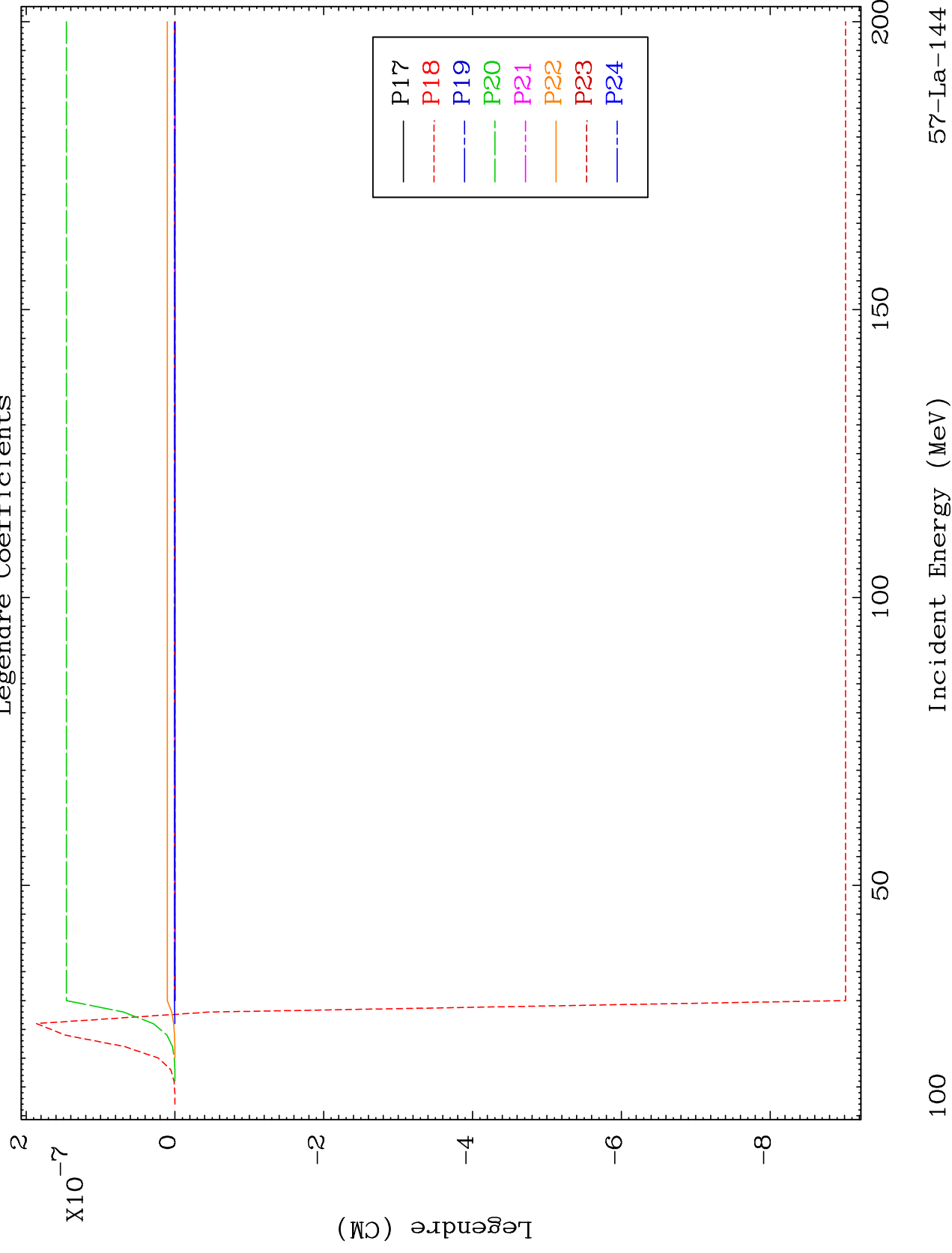
57-La-144



MAT 5743

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

57-La-144



57-La-144

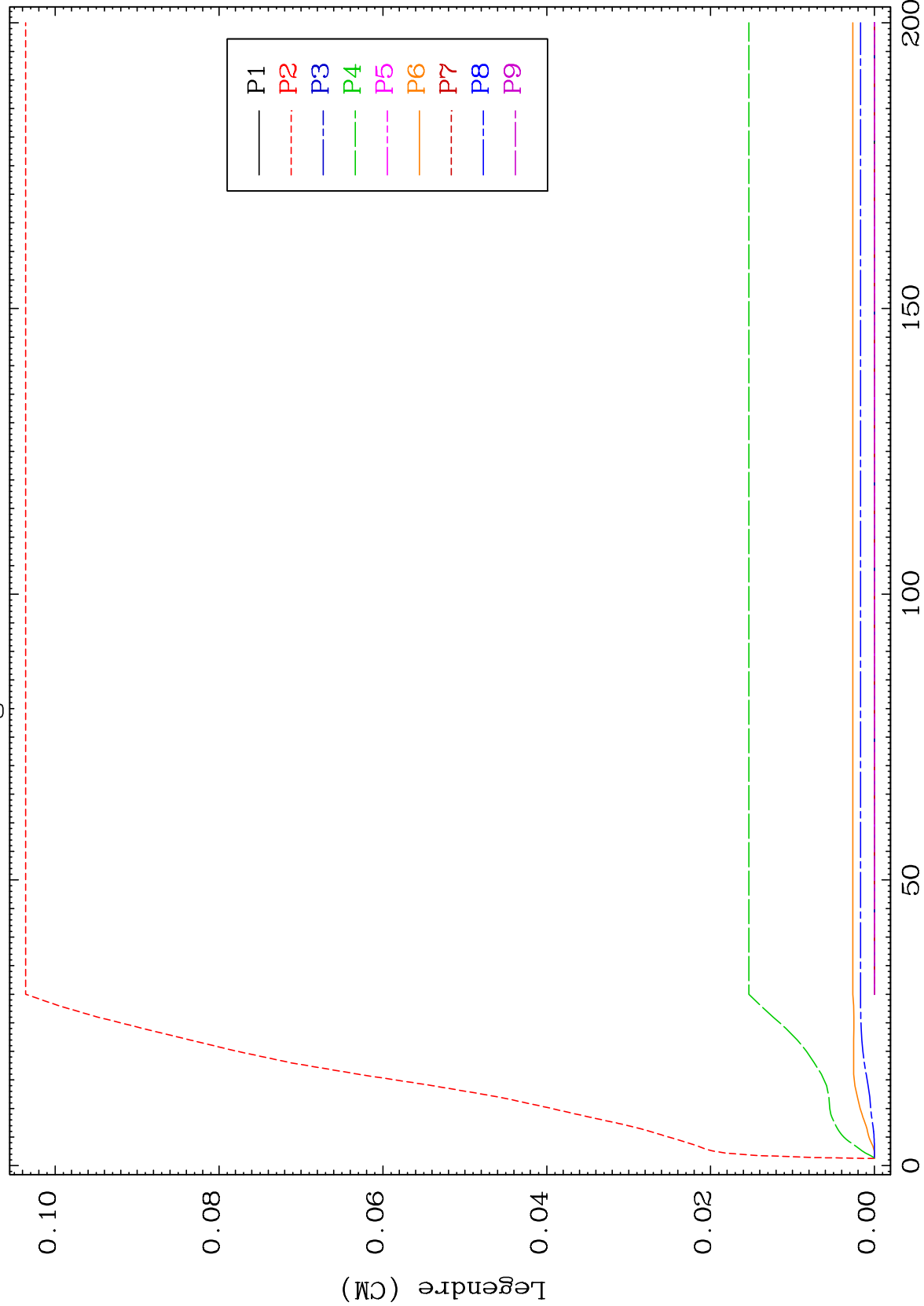
Incident Energy (MeV)

100

MAT 5743

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

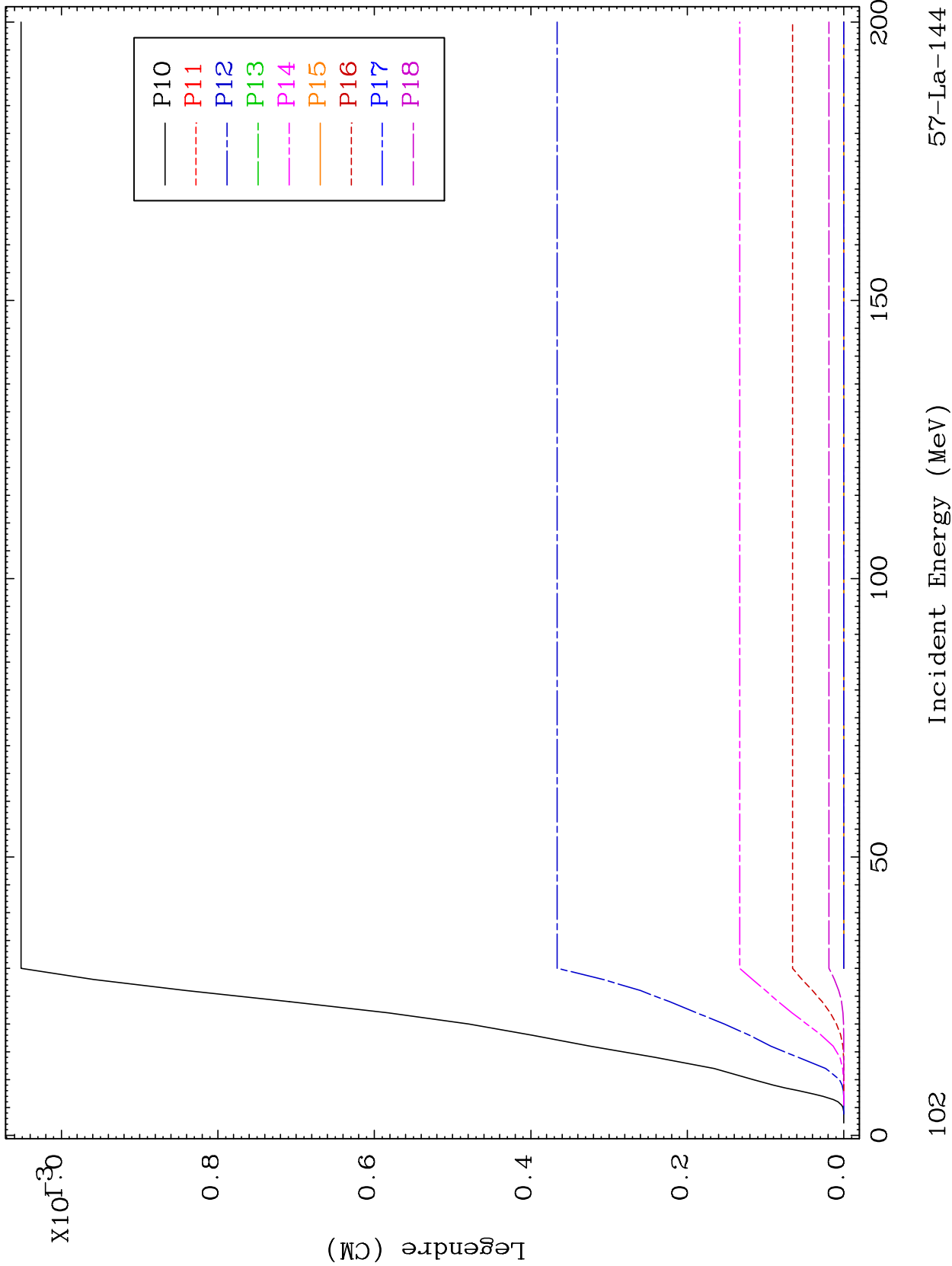
57-La-144

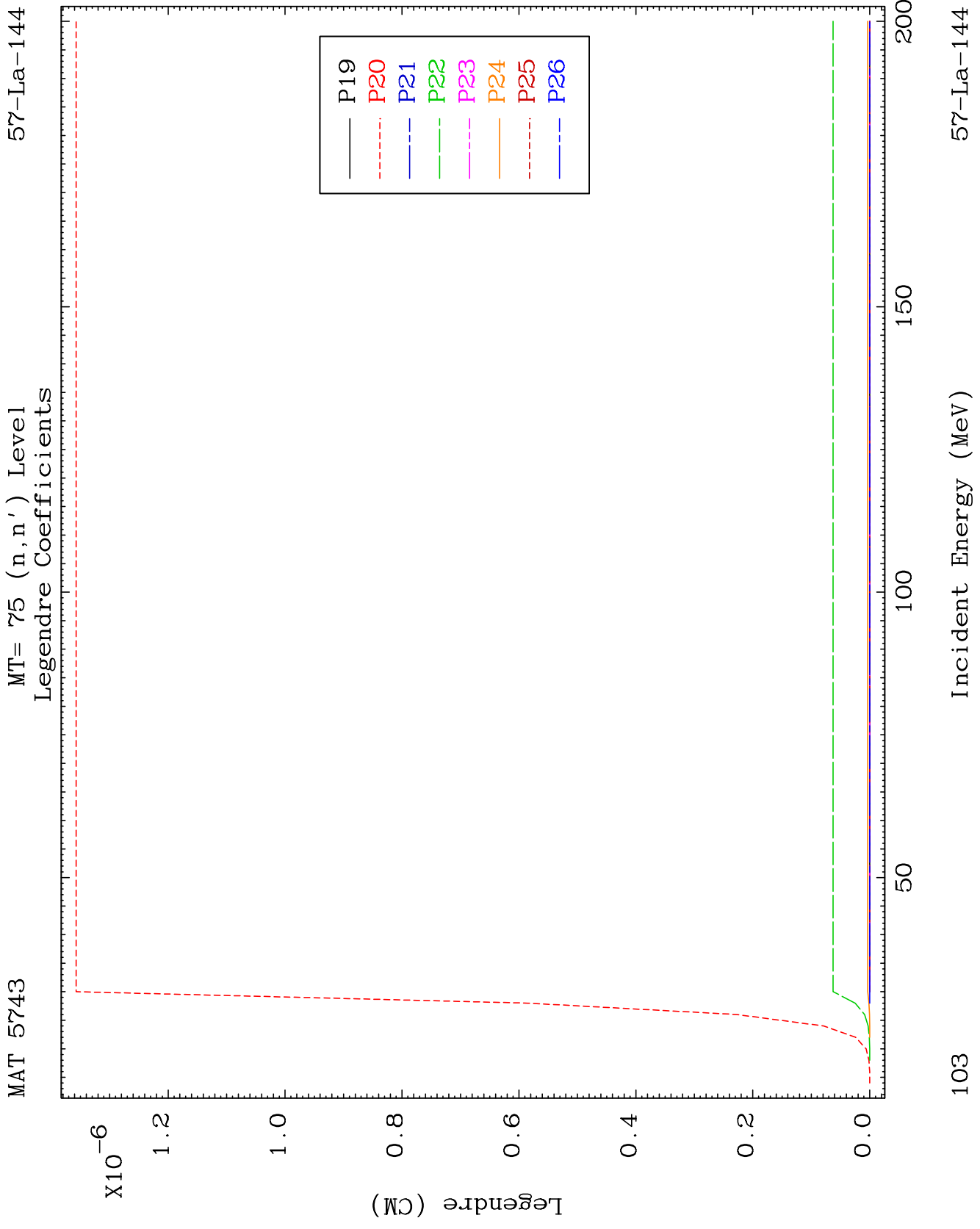


101

Incident Energy (MeV)

57-La-144

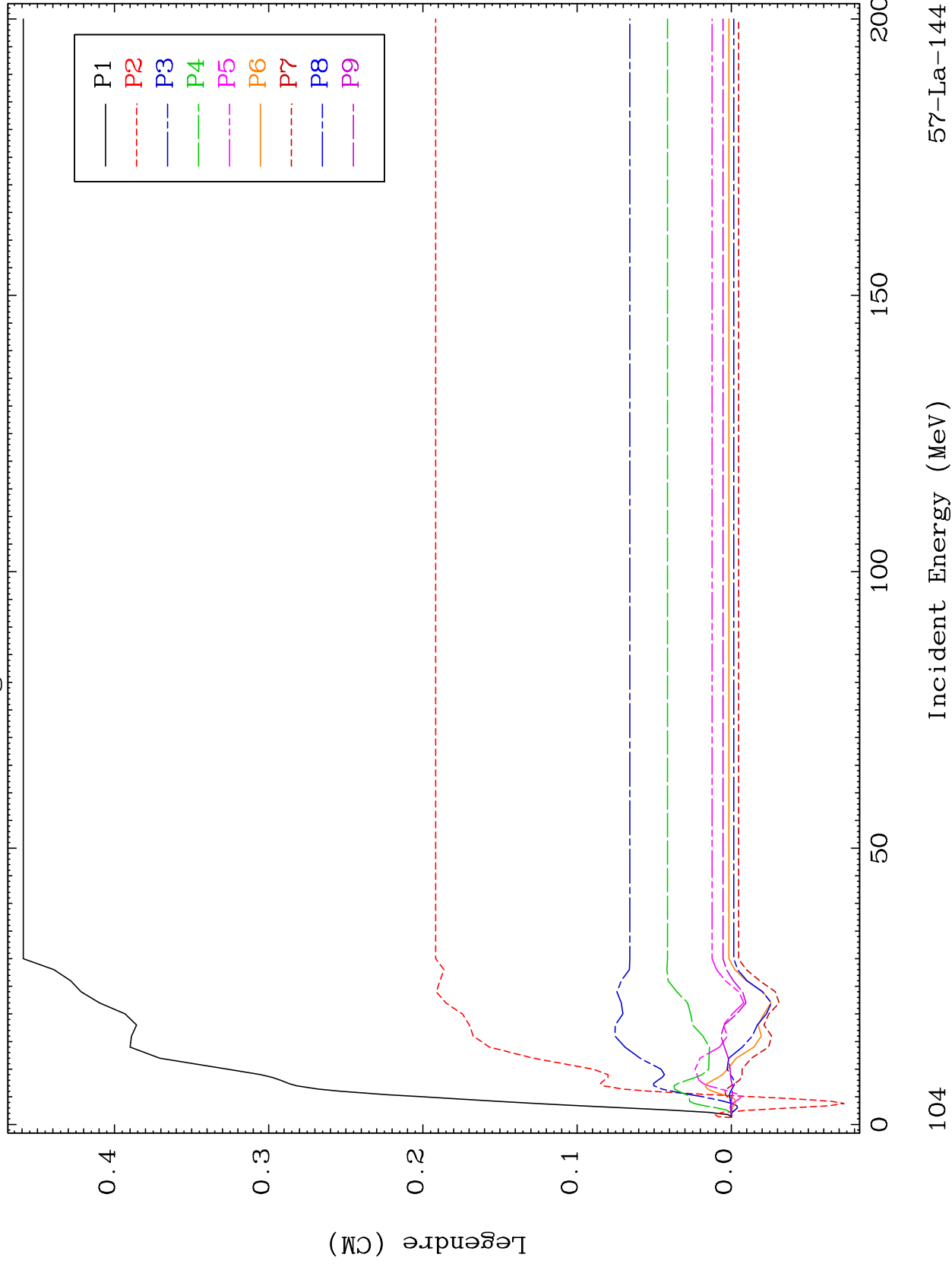




MAT 5743

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

57-La-144



57-La-144

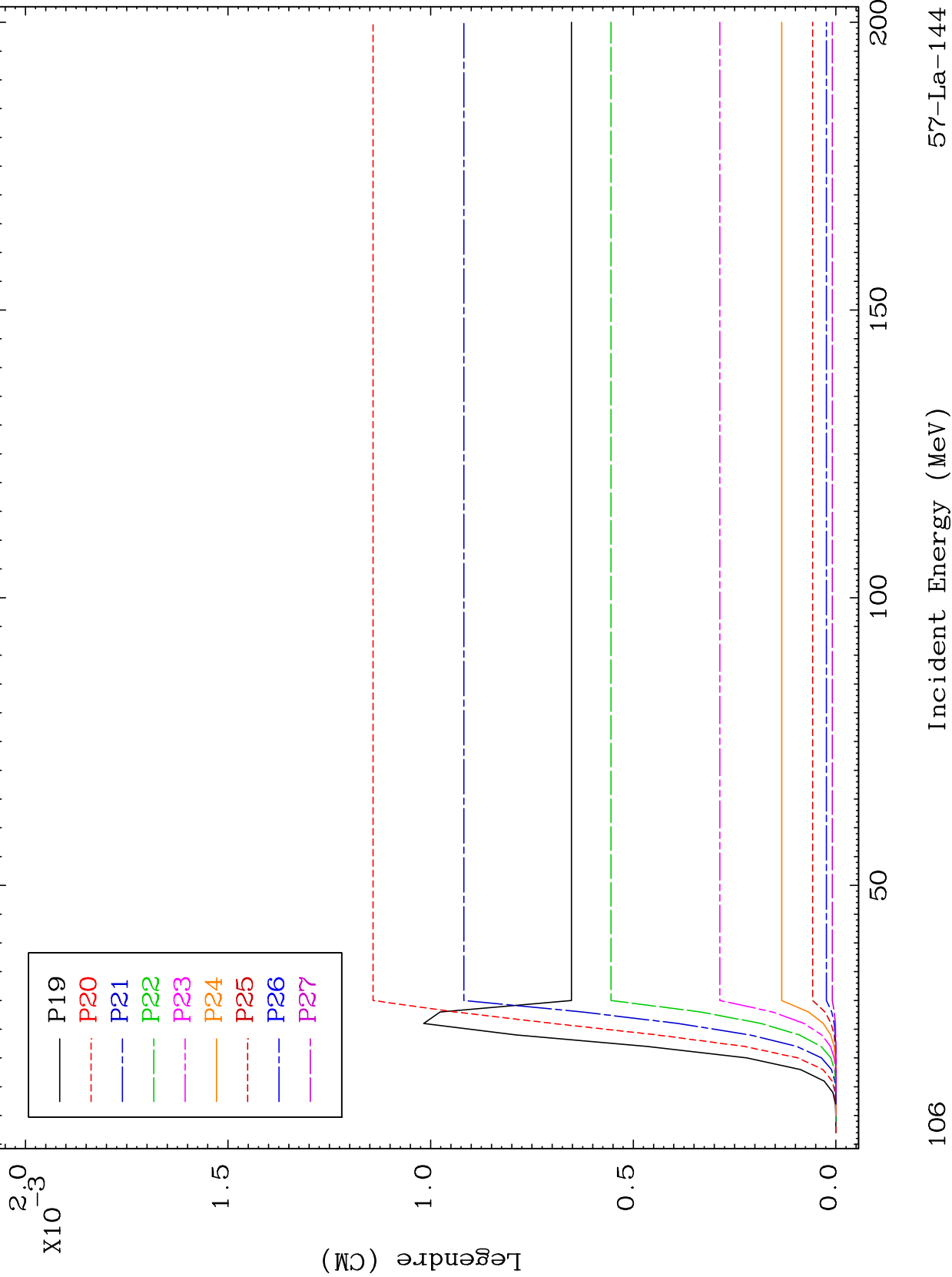
Incident Energy (MeV)

104

MAT 5743

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

57-La-144



106

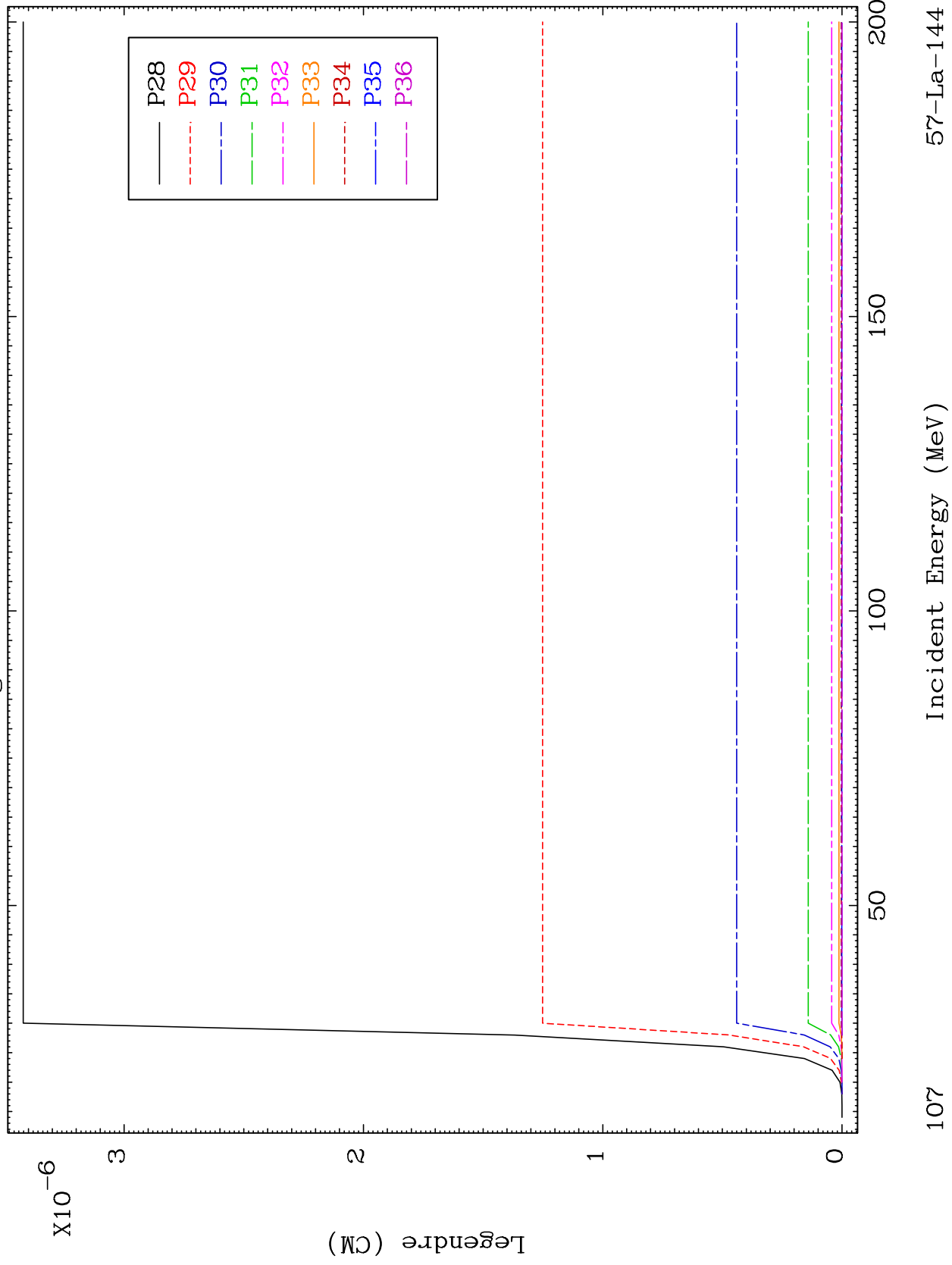
Incident Energy (MeV)

57-La-144

MAT 5743

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

57-La-144

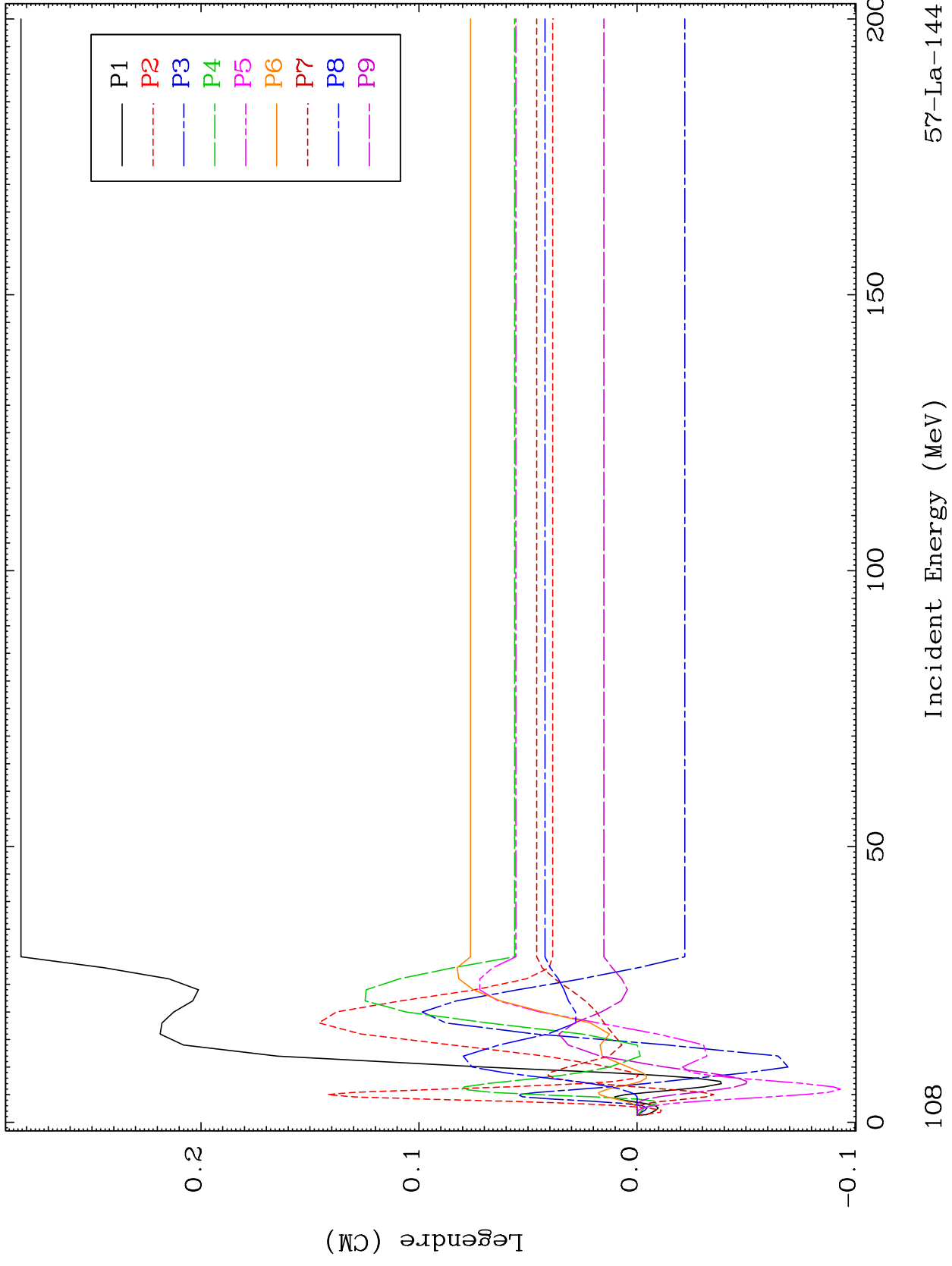


107

MAT 5743

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

57-La-144



57-La-144

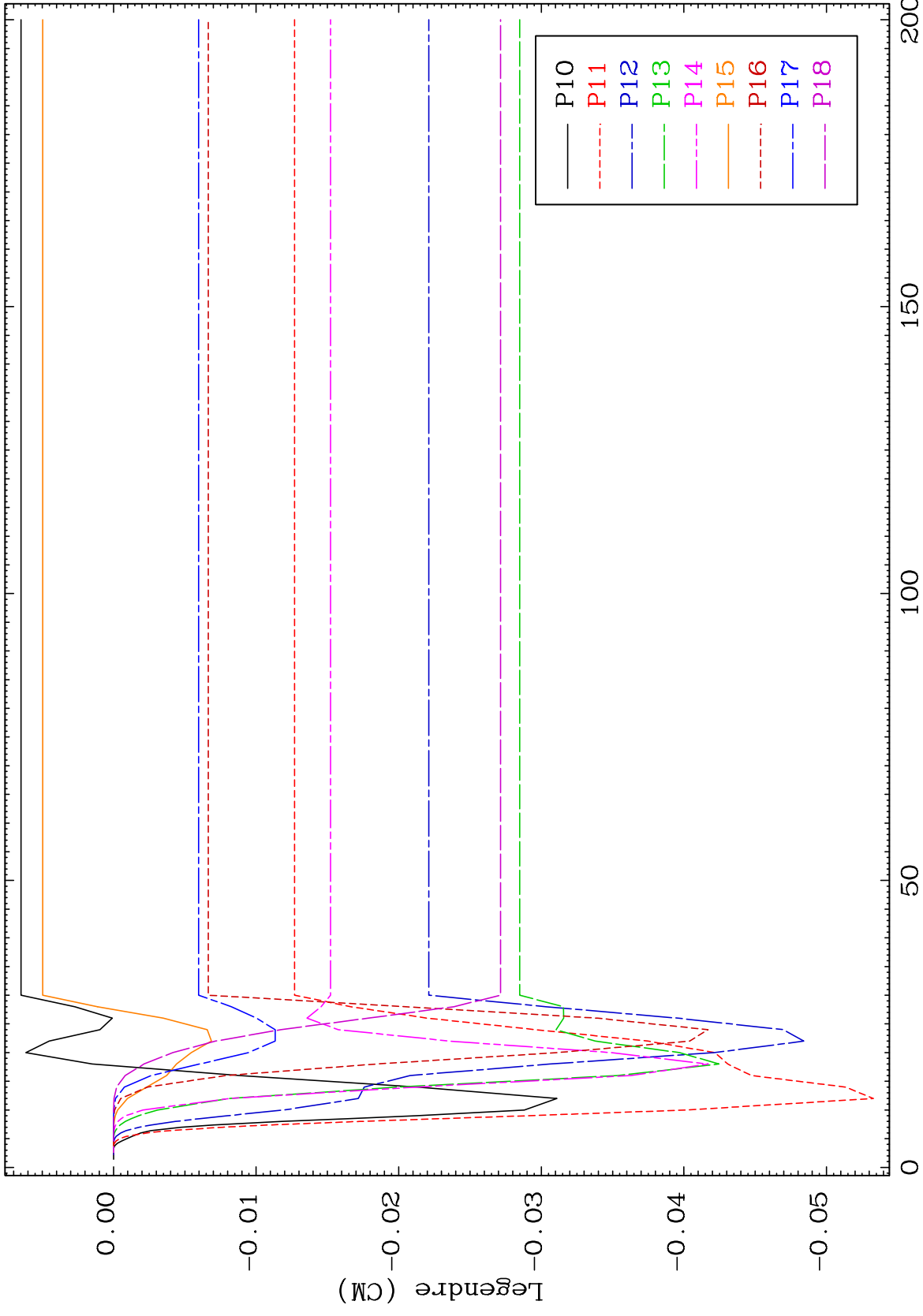
Incident Energy (MeV)

108

MAT 5743

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

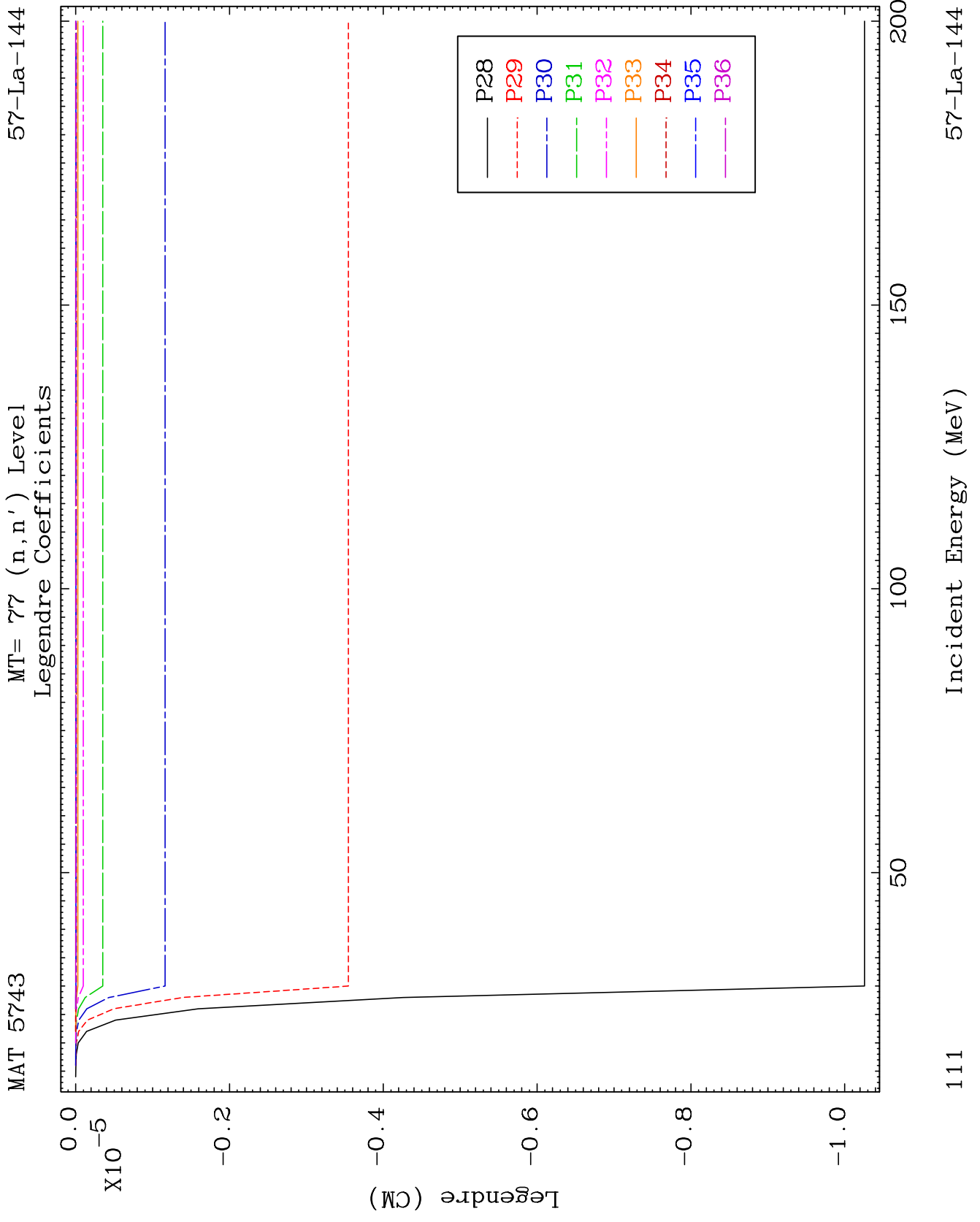
57-La-144



109

Incident Energy (MeV)

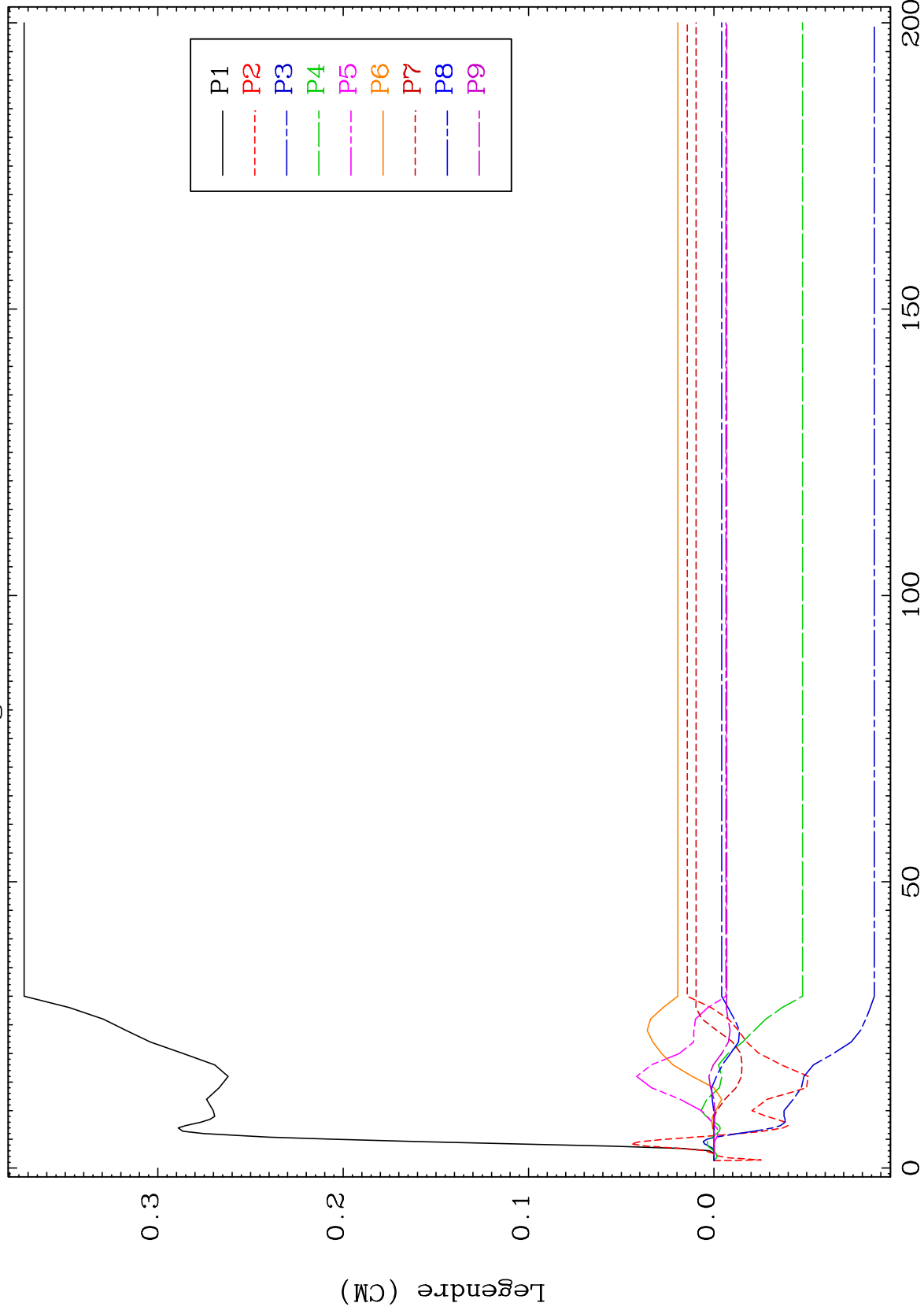
57-La-144



MAT 5743

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

57-La-144



57-La-144

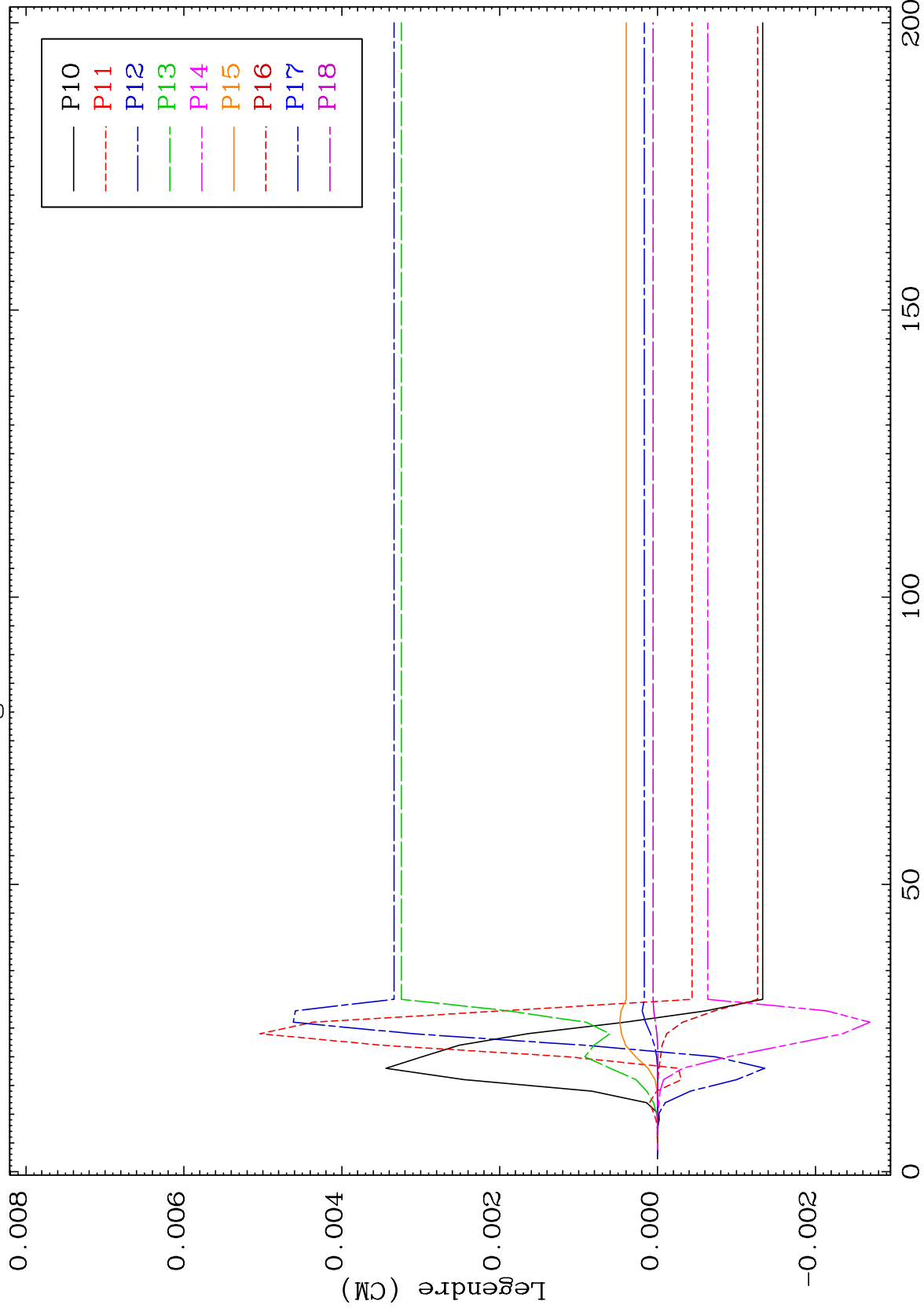
Incident Energy (MeV)

112

MAT 5743

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

57-La-144



113

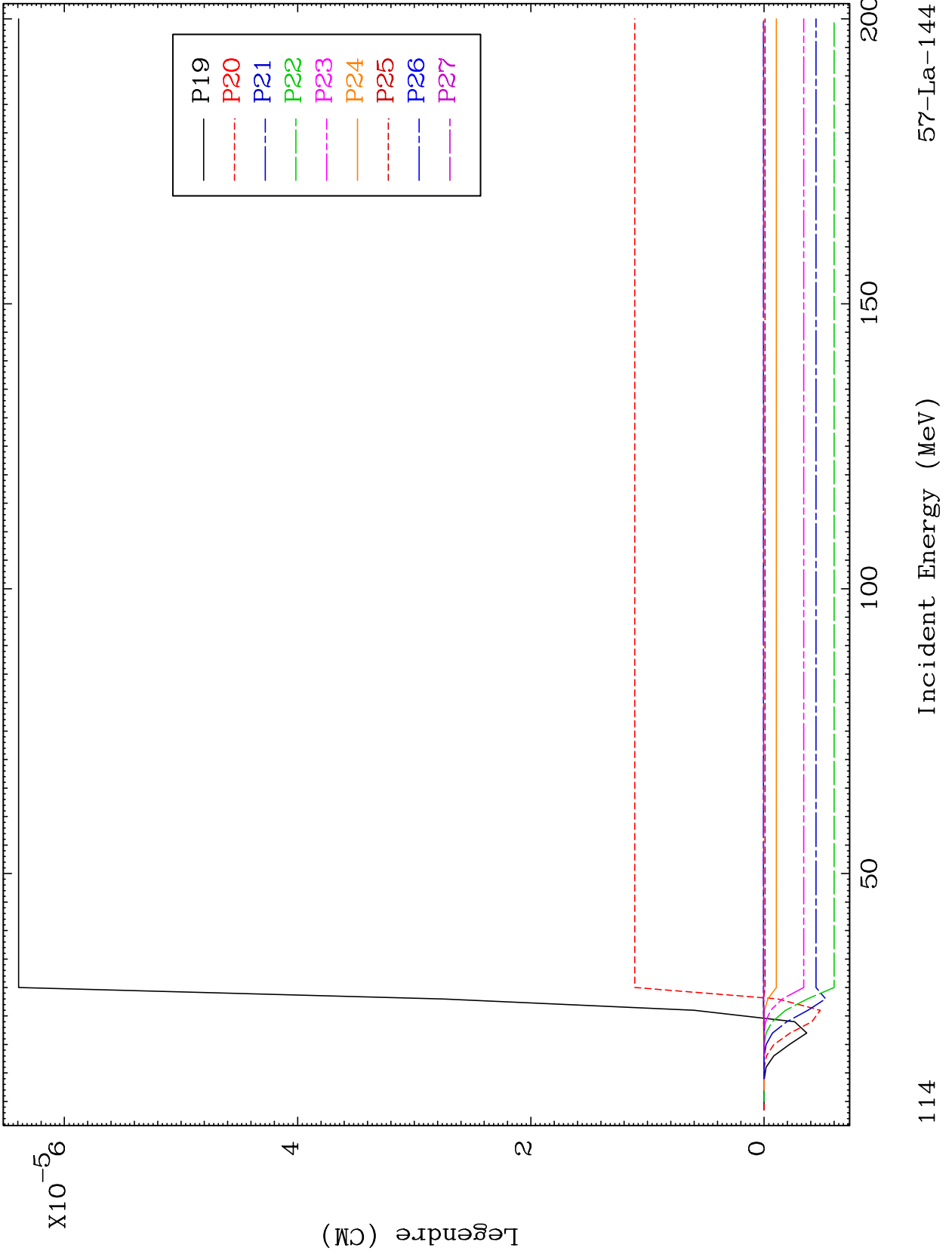
Incident Energy (MeV)

57-La-144

MAT 5743

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

57-La-144



114

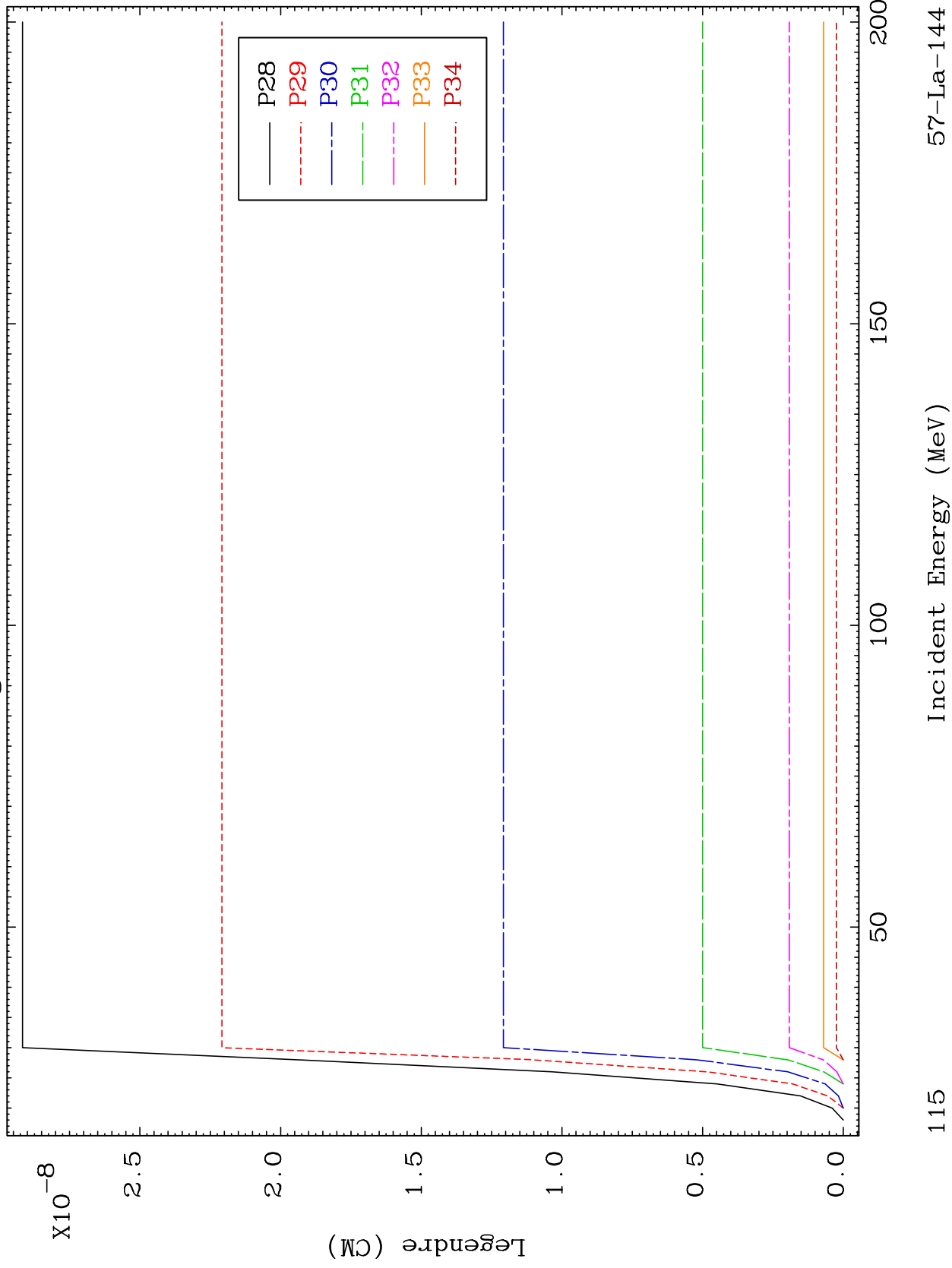
Incident Energy (MeV)

57-La-144

MAT 5743

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

57-La-144



115

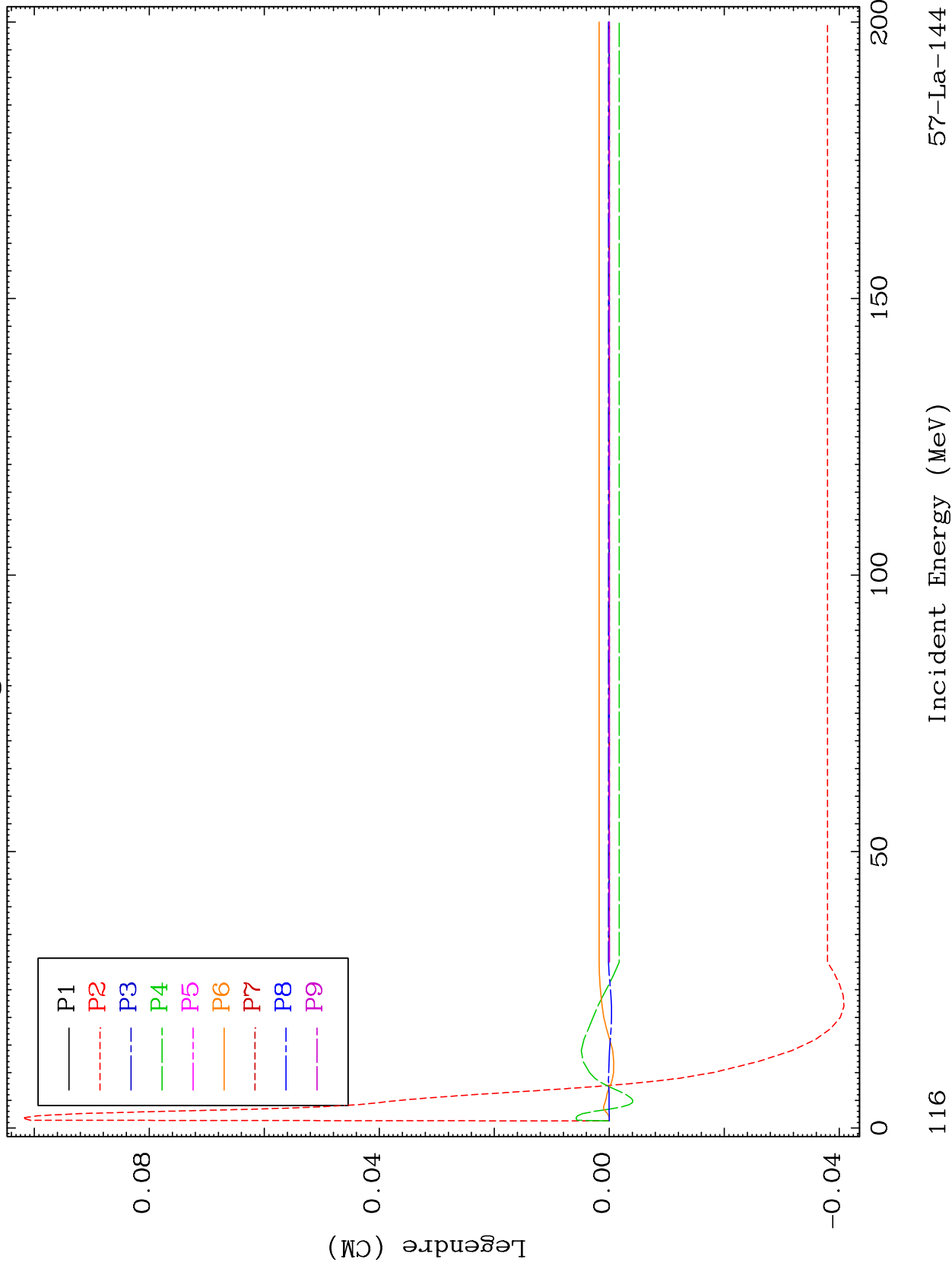
Incident Energy (MeV)

57-La-144

MAT 5743

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

57-La-144



116

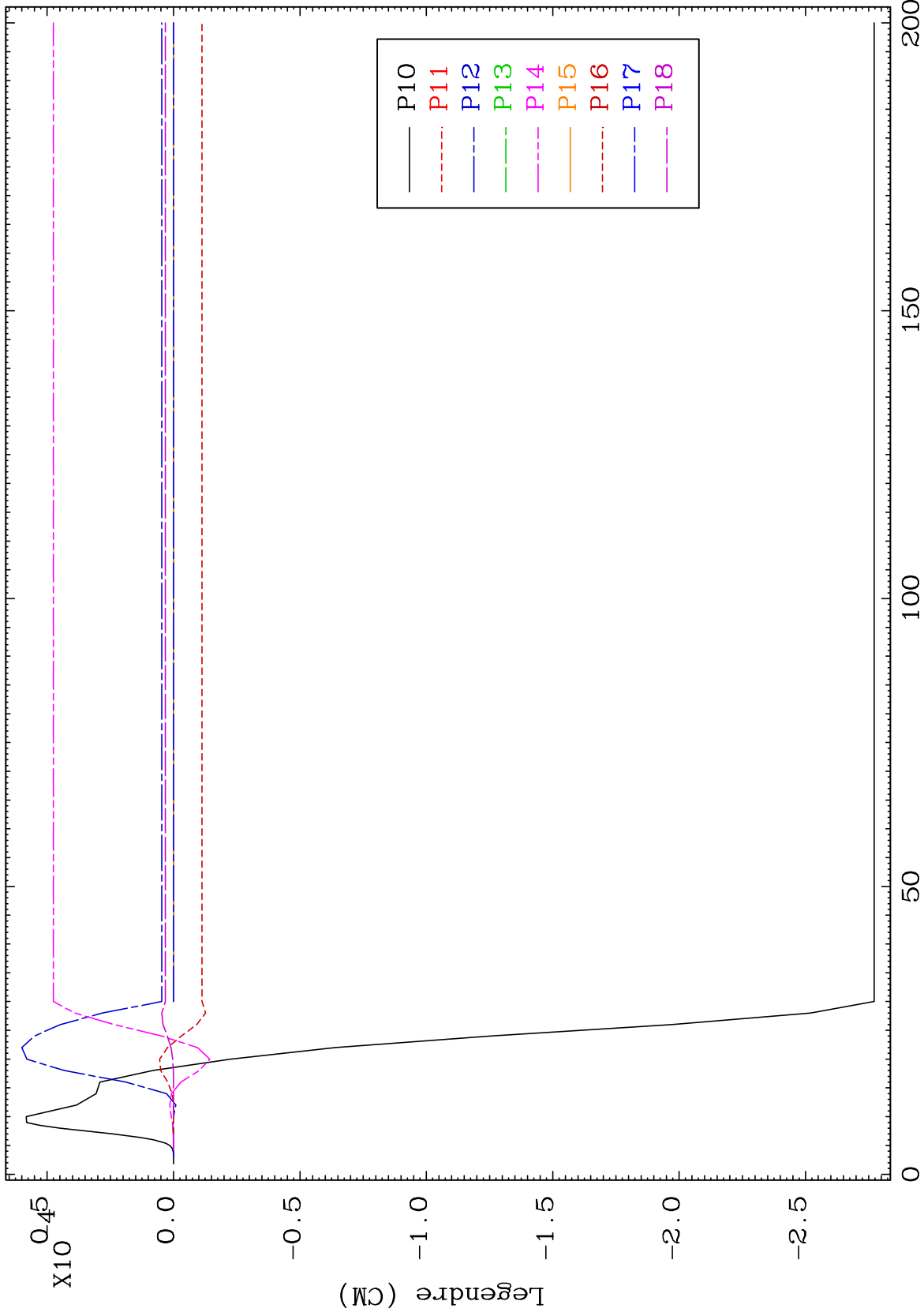
Incident Energy (MeV)

57-La-144

MAT 5743

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

57-La-144



117

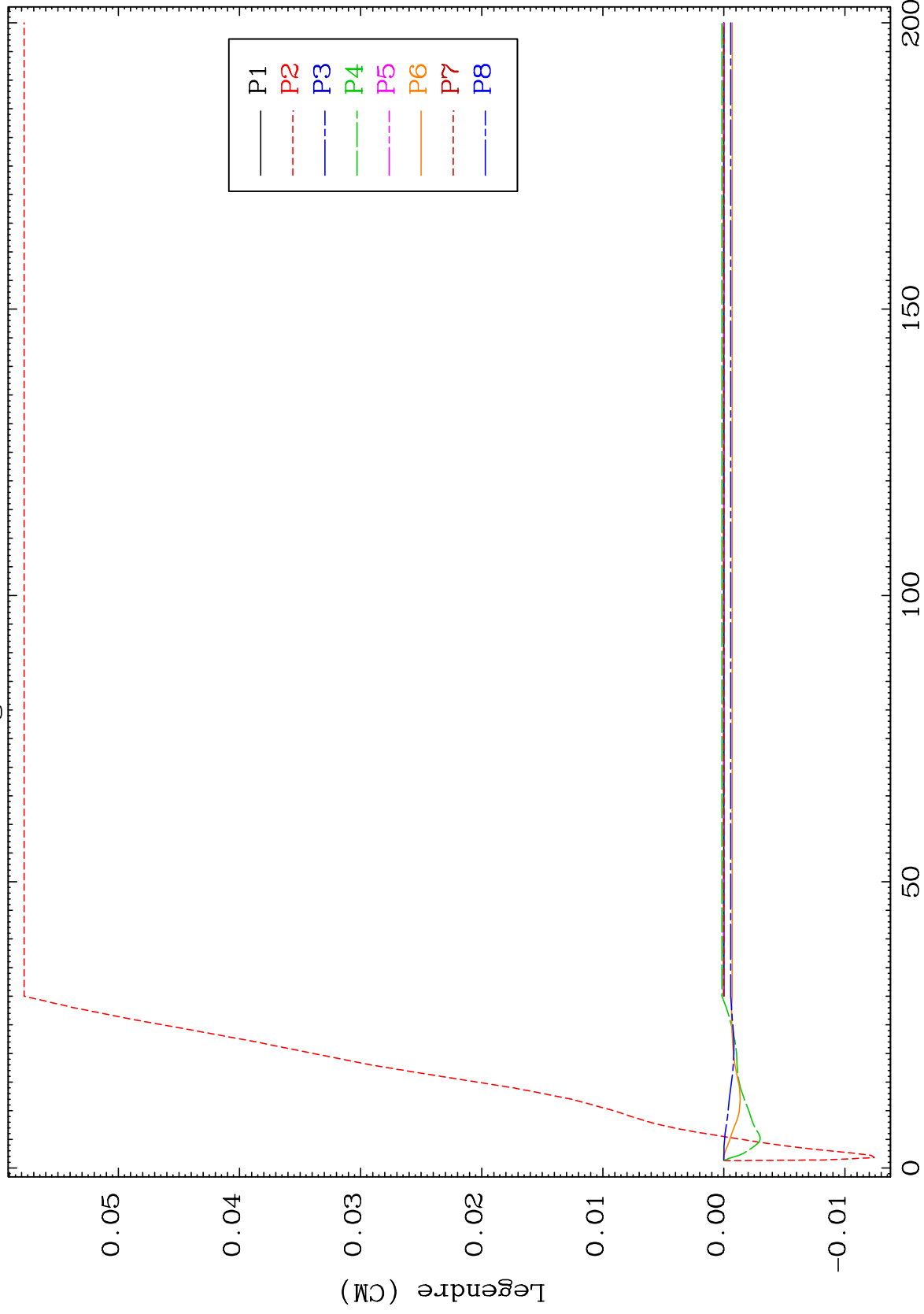
Incident Energy (MeV)

57-La-144

MAT 5743

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

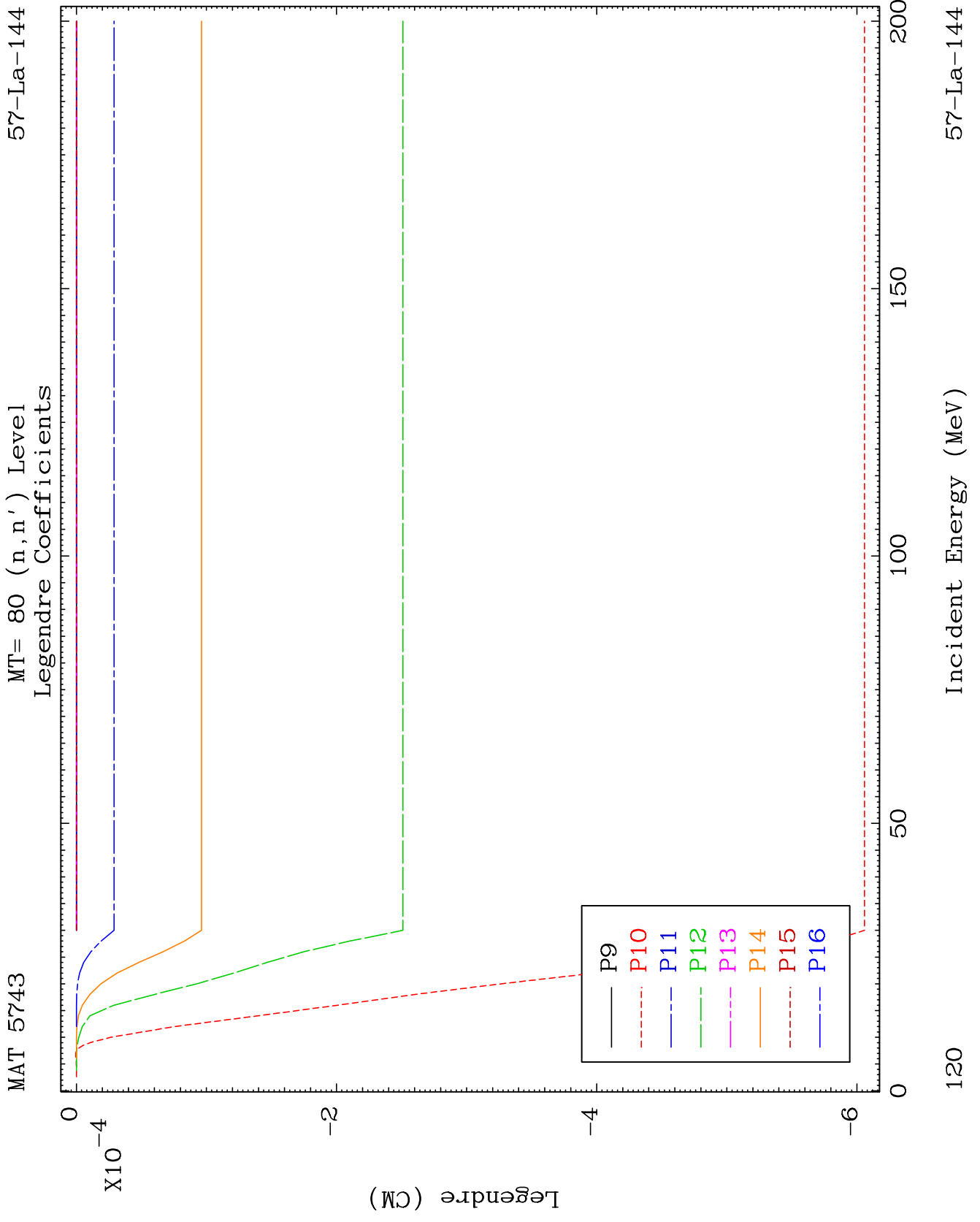
57-La-144

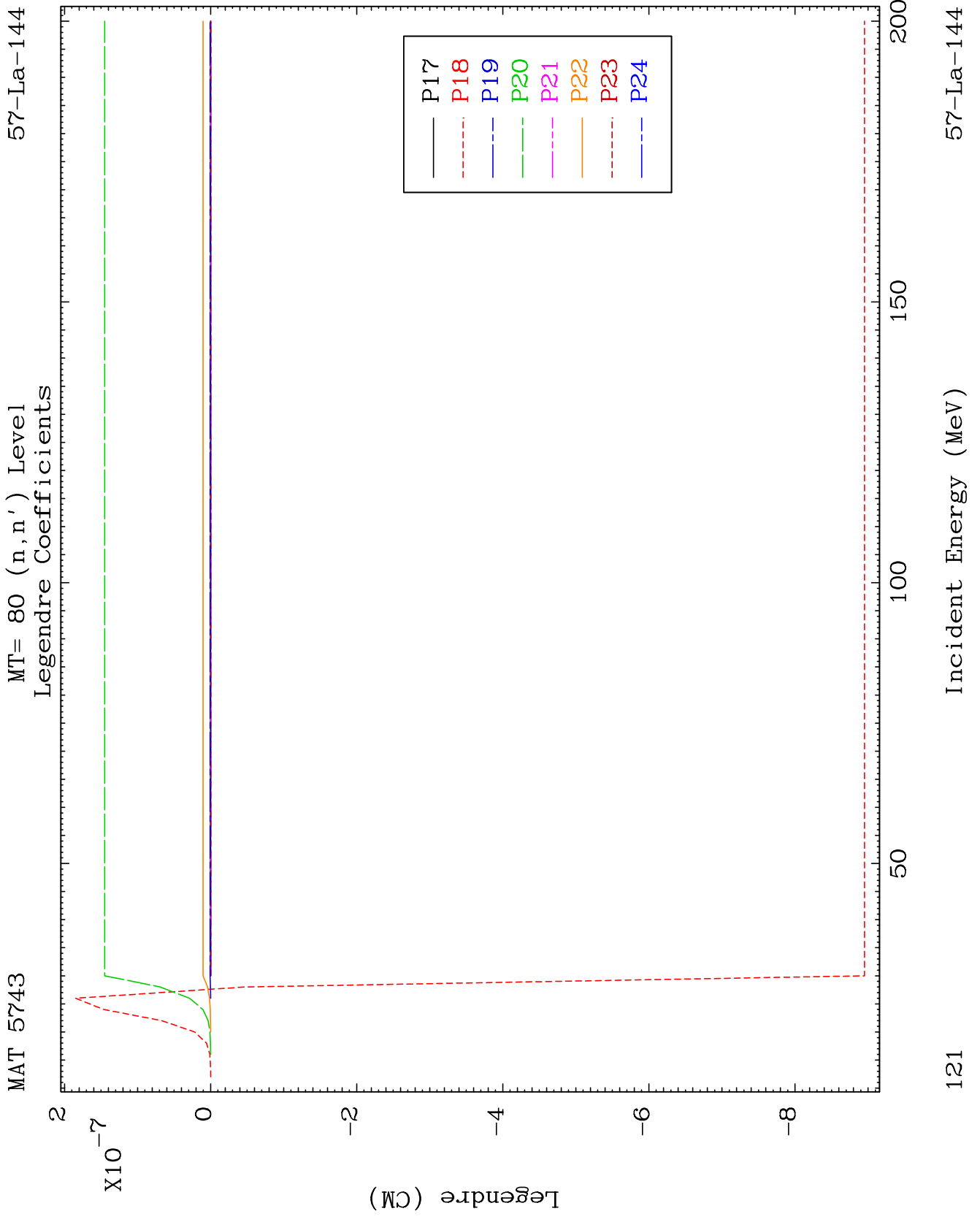


57-La-144

Incident Energy (MeV)

119



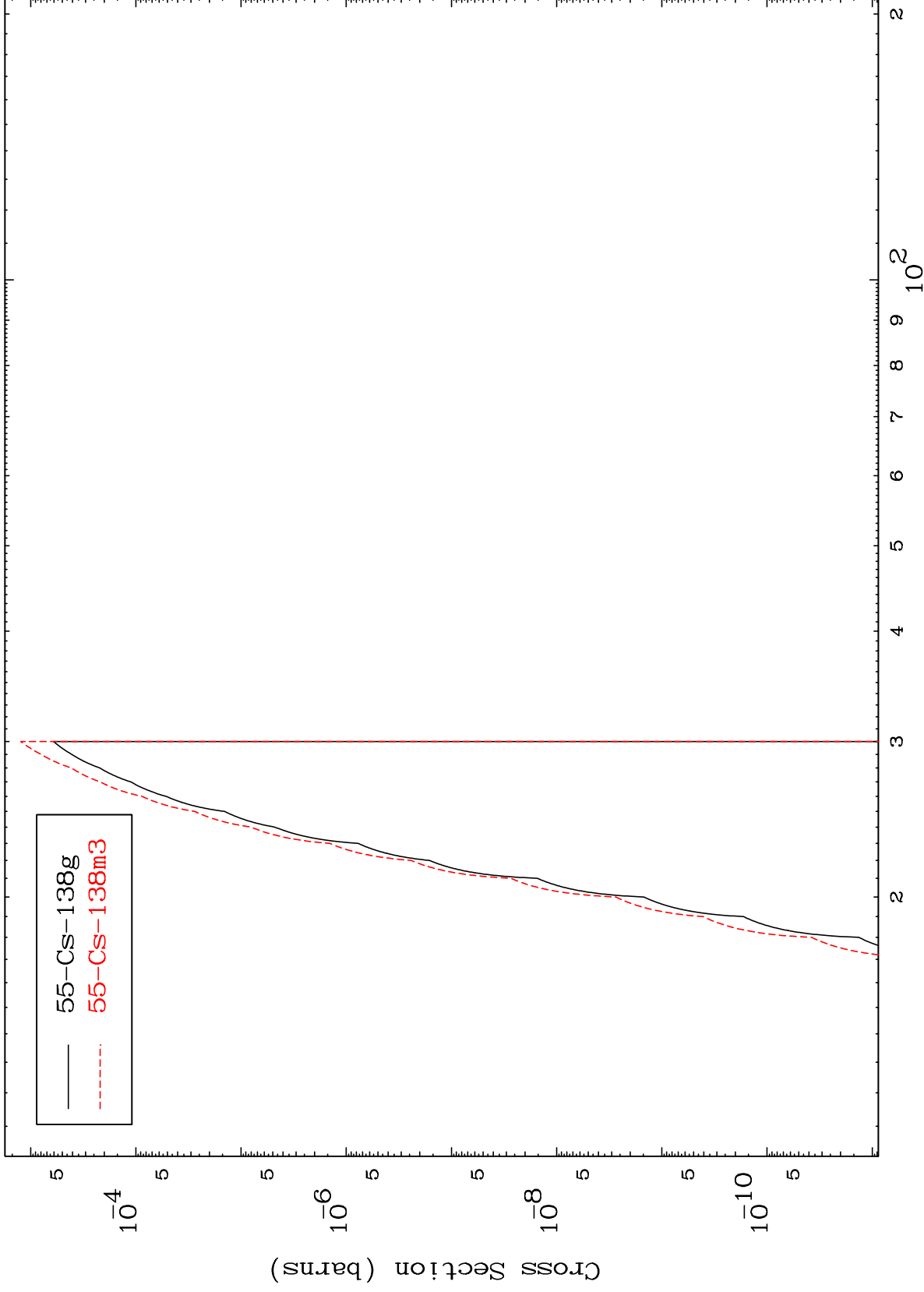


MAT 5743

(n,3n) α

57-La-144

Radionuclide Production Cross Section



122

Incident Energy (MeV)

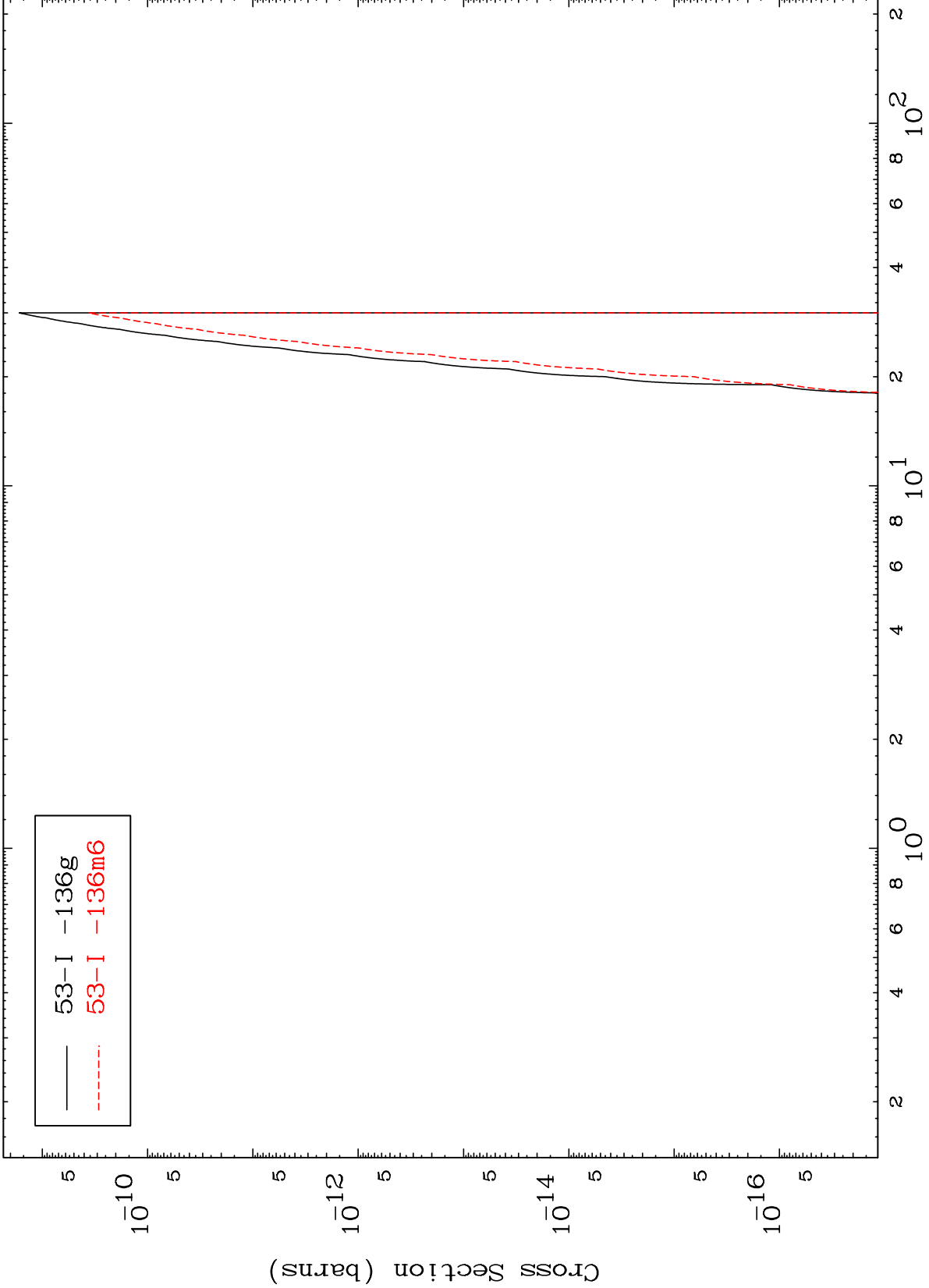
57-La-144

MAT 5743

(n,n') 2α

57-La-144

Radionuclide Production Cross Section



53-I -136g
53-I -136m6