

Program EVALPLOT  
(Version 2018-1)

by

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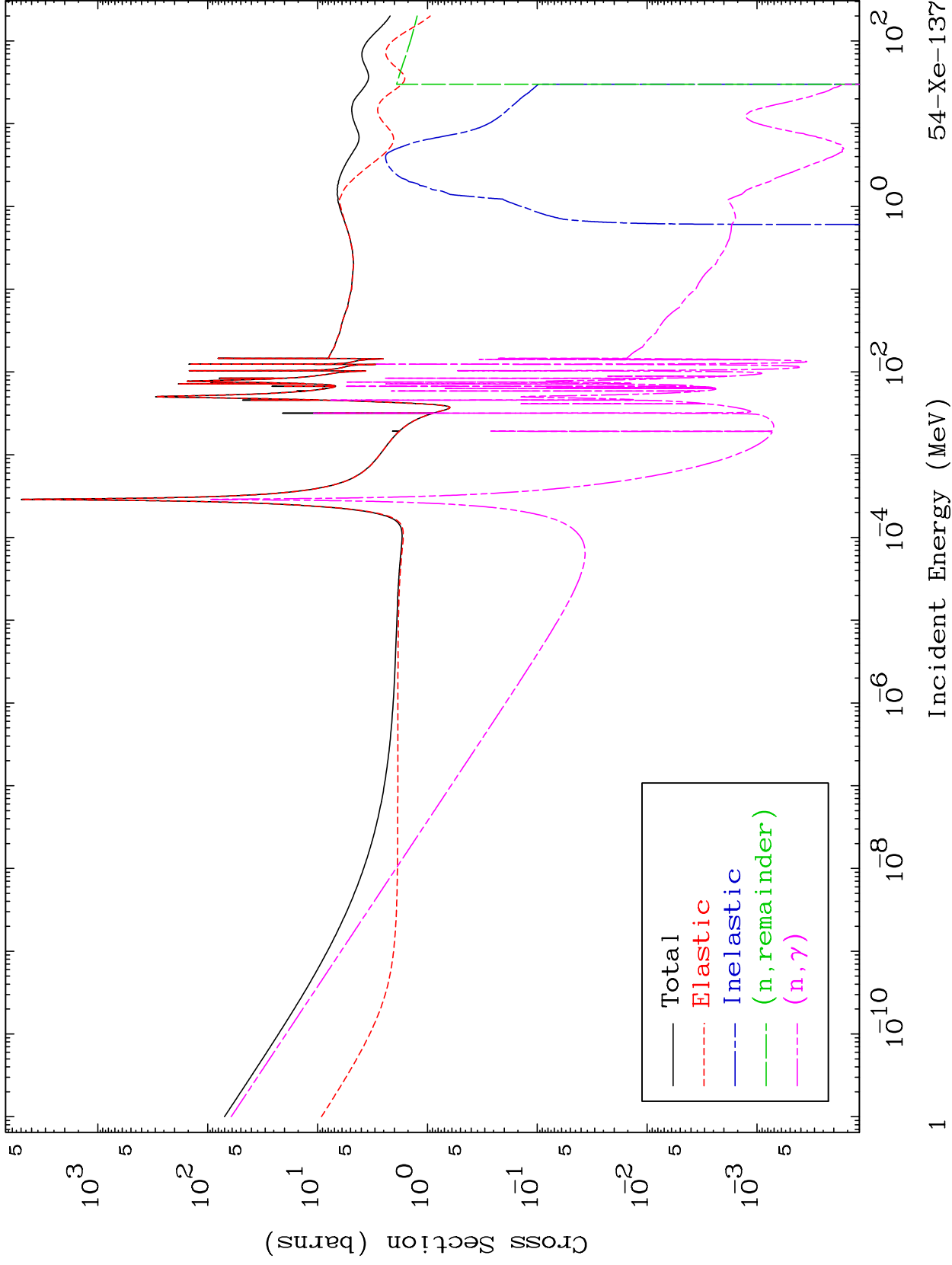
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5464

Major  
293 Kelvin Cross Sections

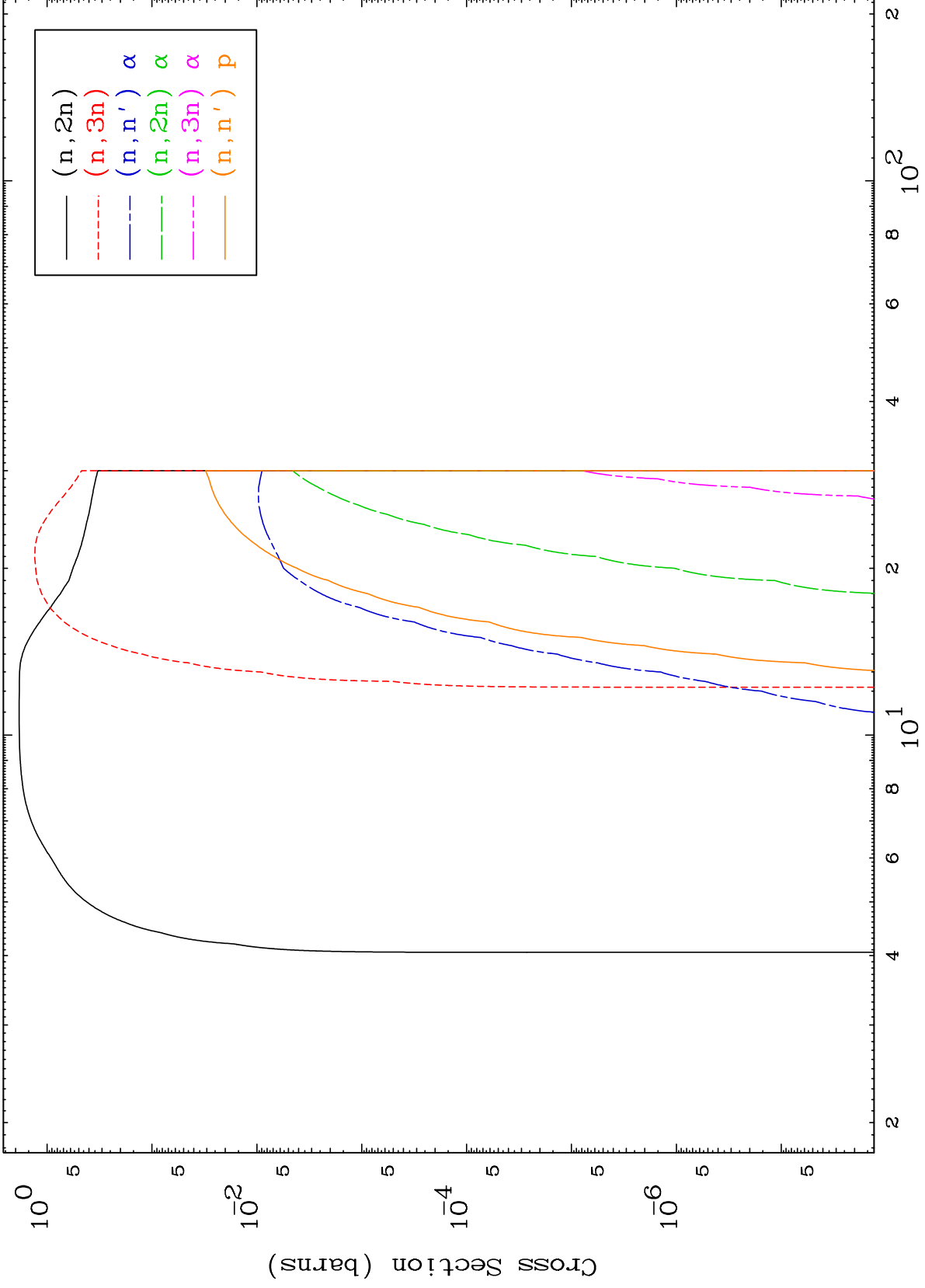
54-Xe-137



MAT 5464

Neutron Production  
293 Kelvin Cross Sections

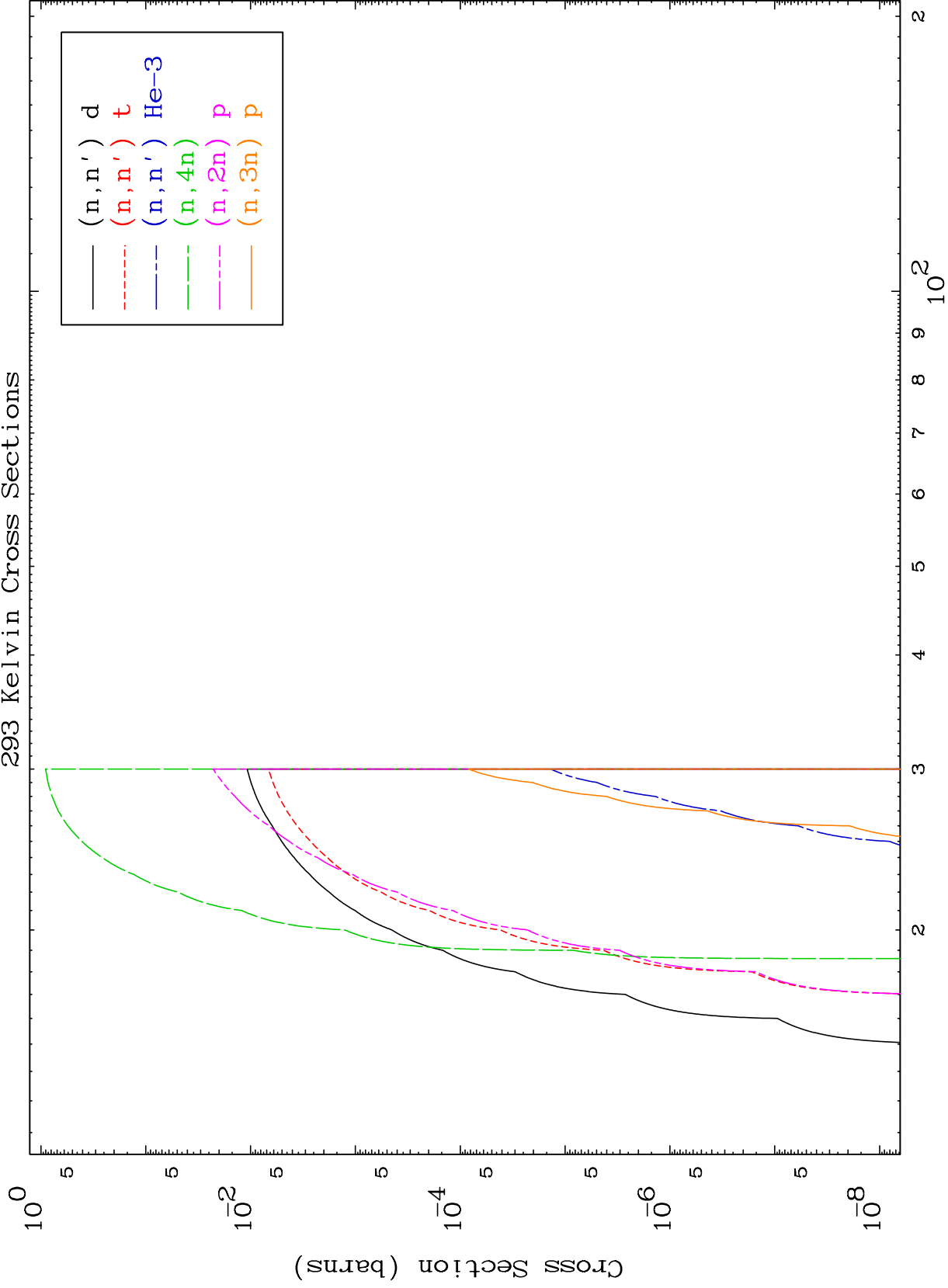
54-Xe-137

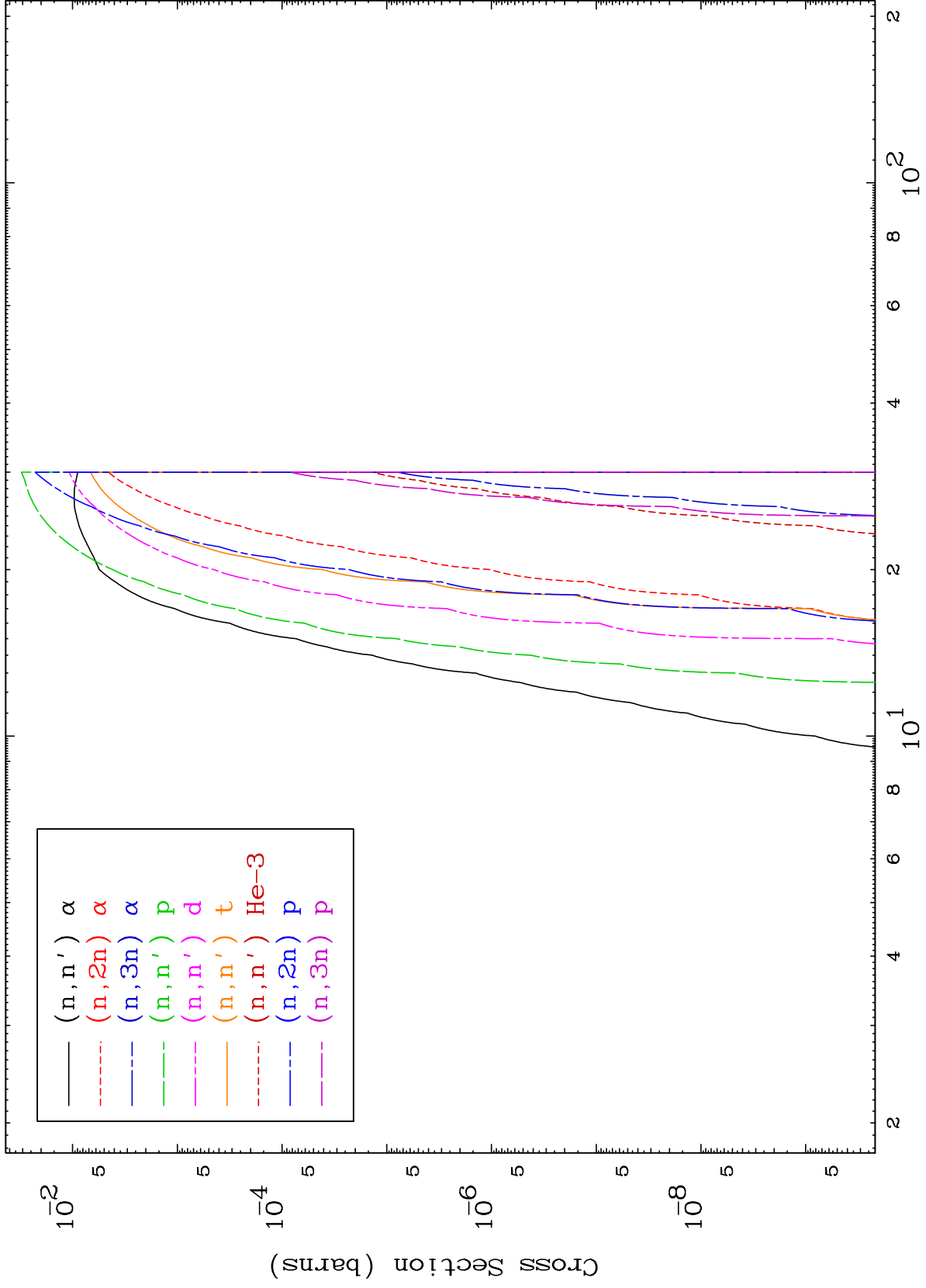


2

Incident Energy (MeV)

54-Xe-137

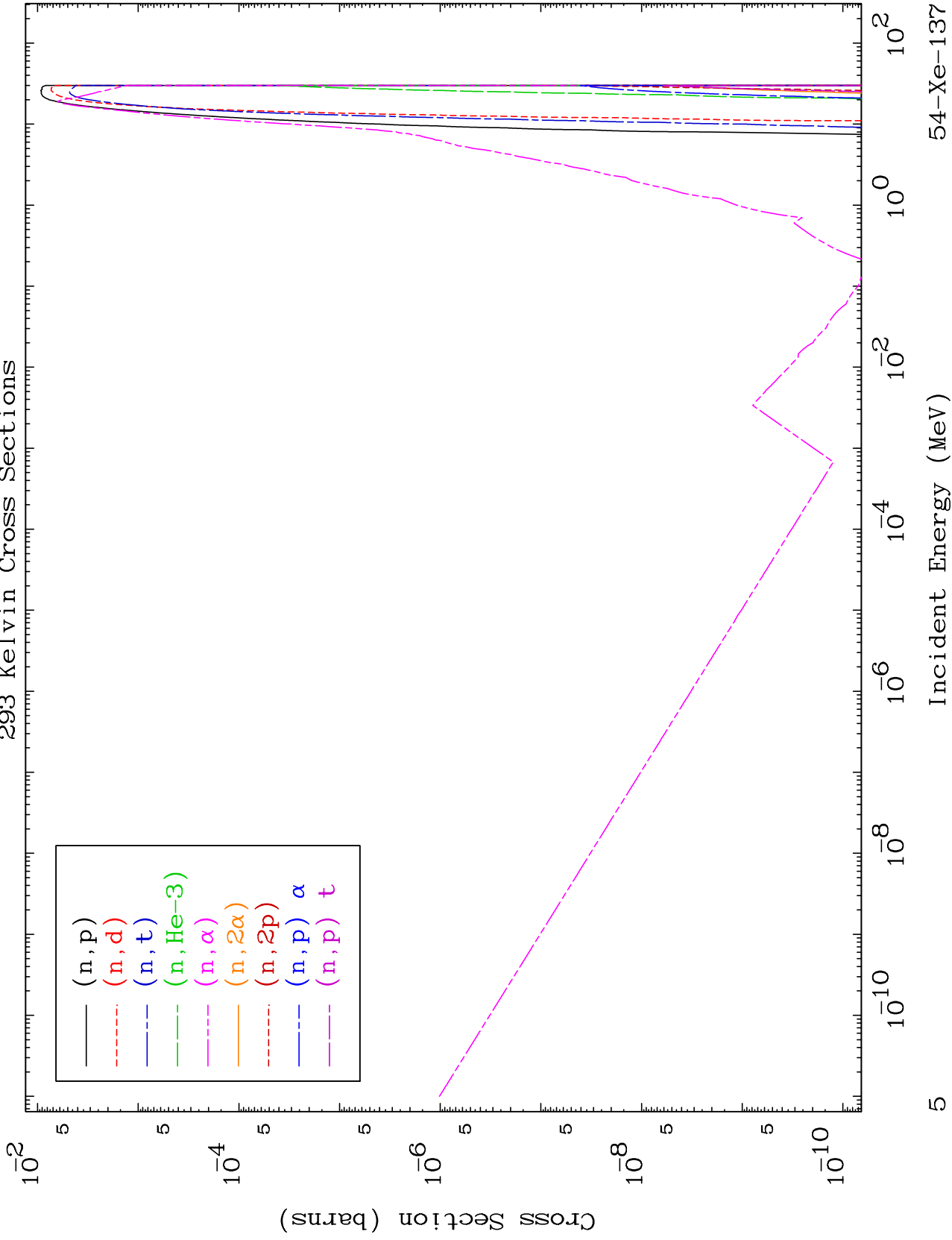




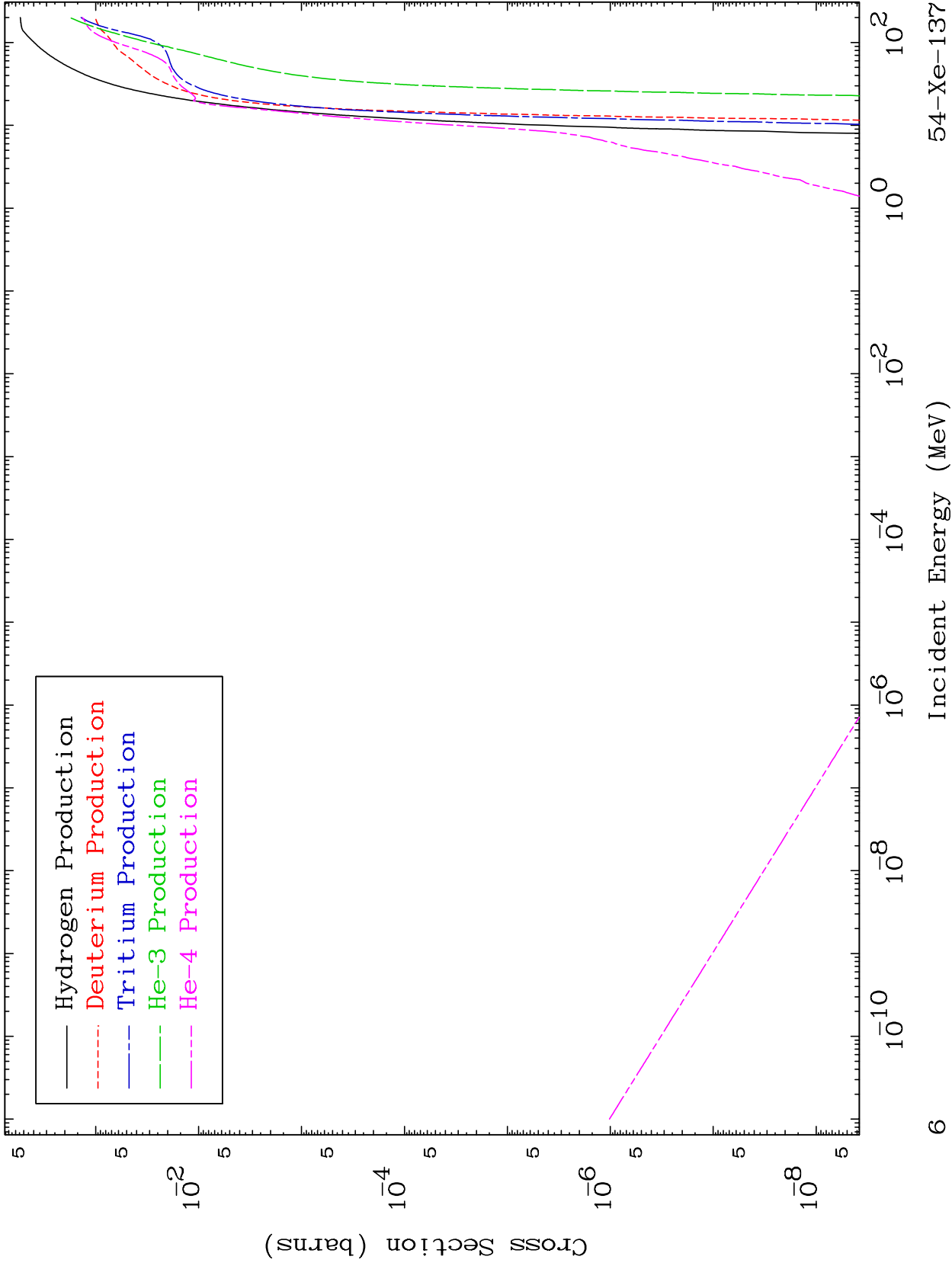
MAT 5464

Charged Particle  
293 Kelvin Cross Sections

54-Xe-137



5

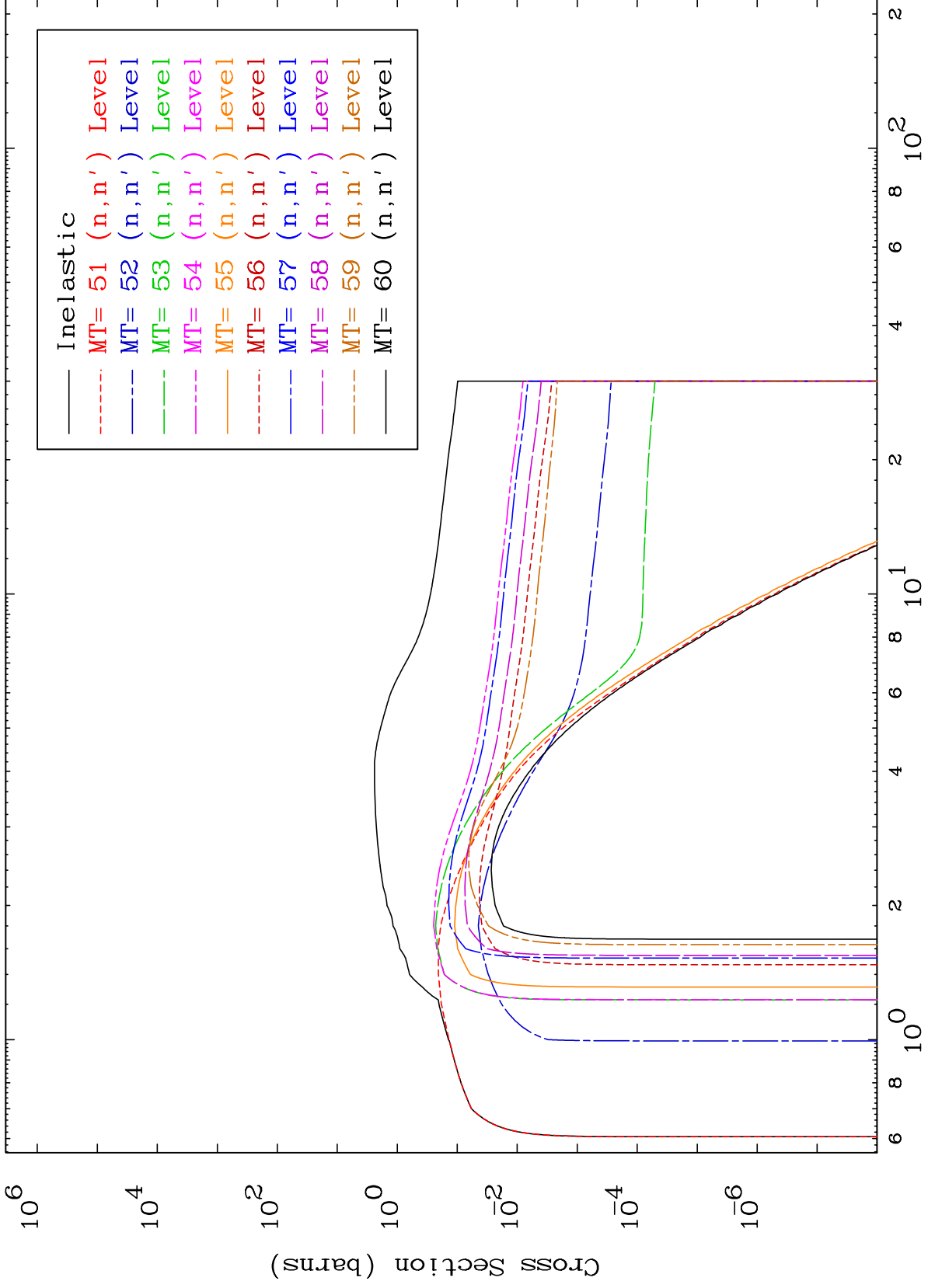


MAT 5464

(n,n') Level

54-Xe-137

293 Kelvin Cross Sections



7

Incident Energy (MeV)

54-Xe-137

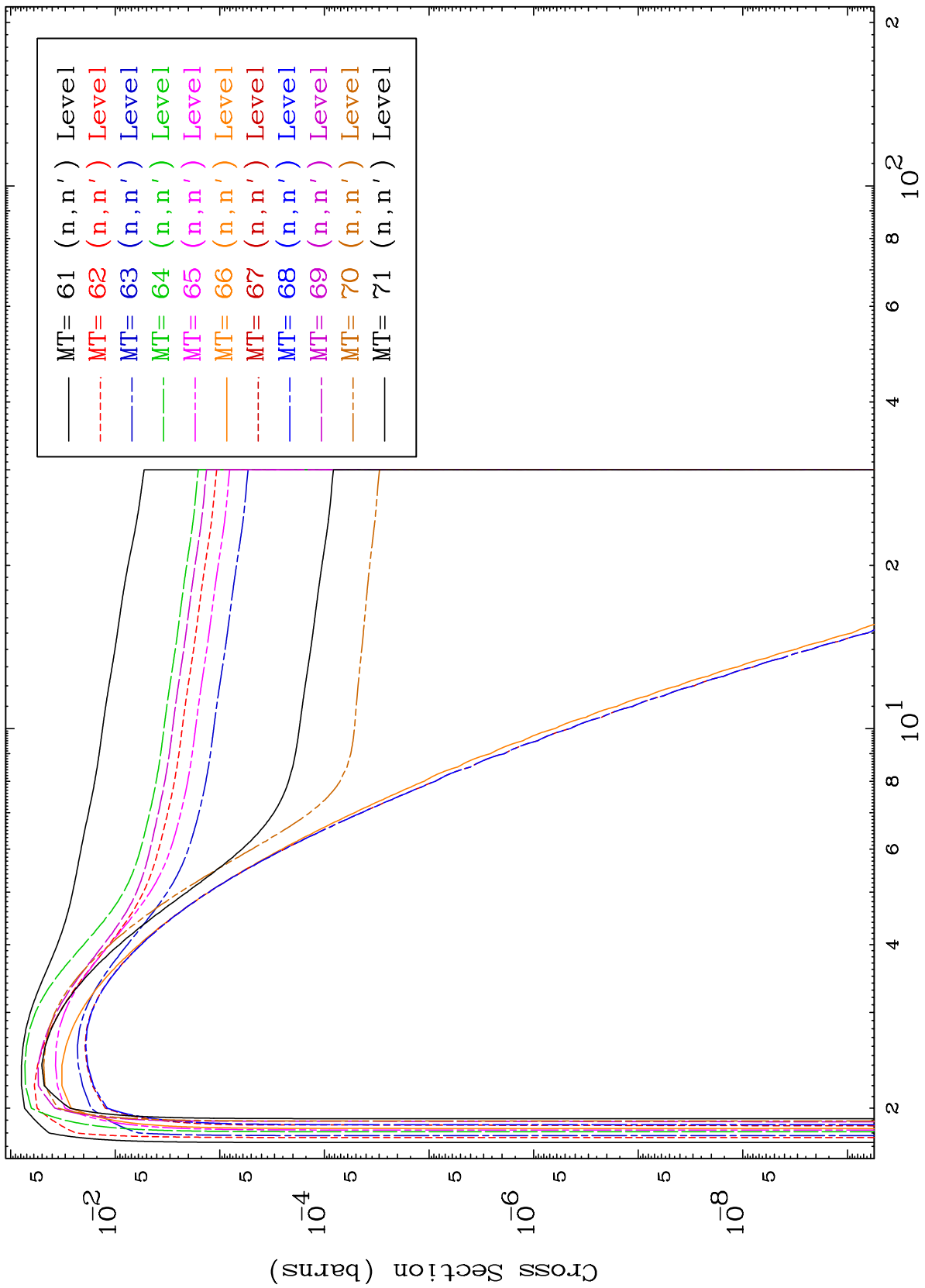


MAT 5464

(n,n') Level

54-Xe-137

293 Kelvin Cross Sections



8

Incident Energy (MeV)

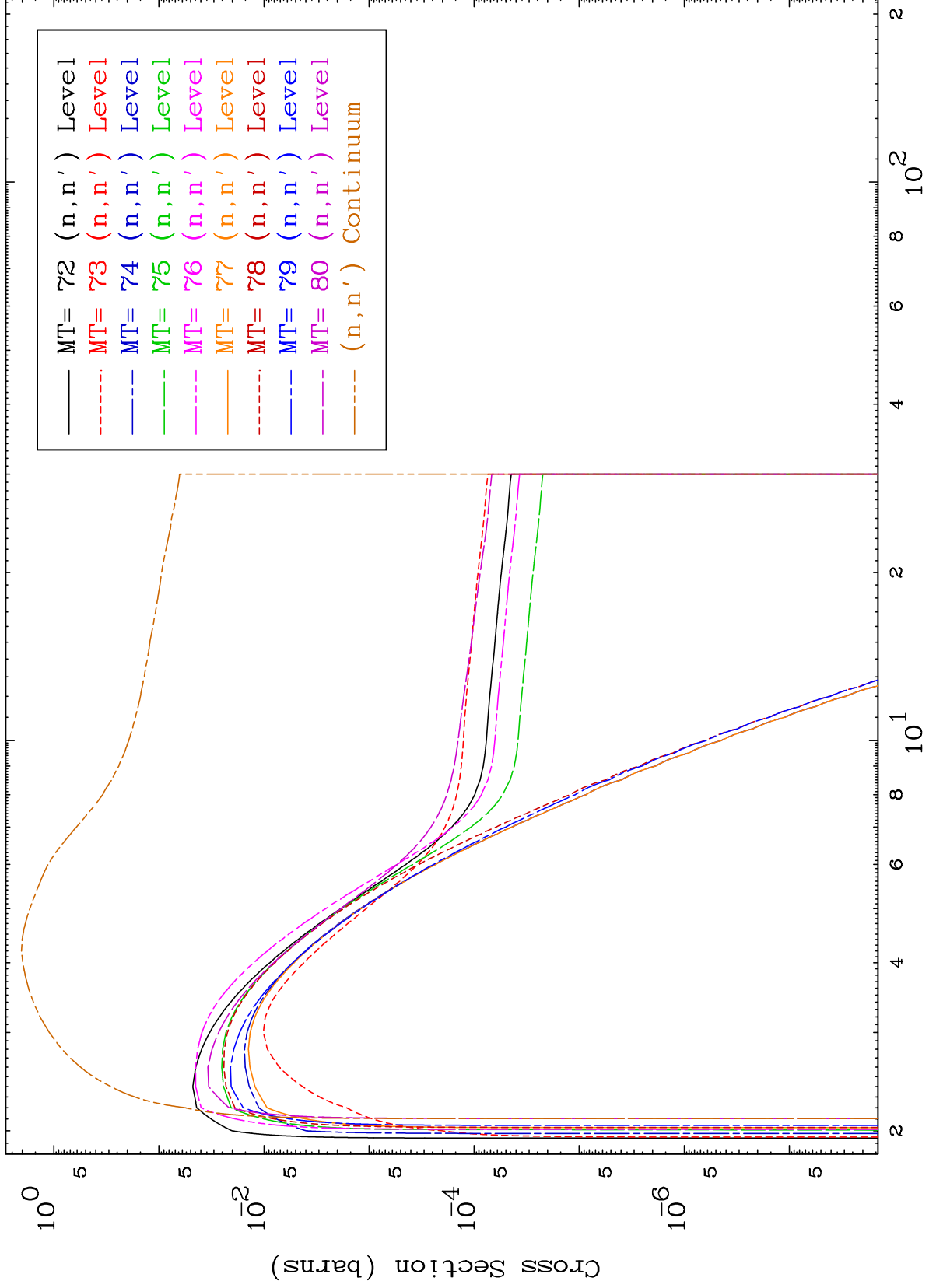
54-Xe-137

MAT 5464

(n,n') Level

54-Xe-137

293 Kelvin Cross Sections



9

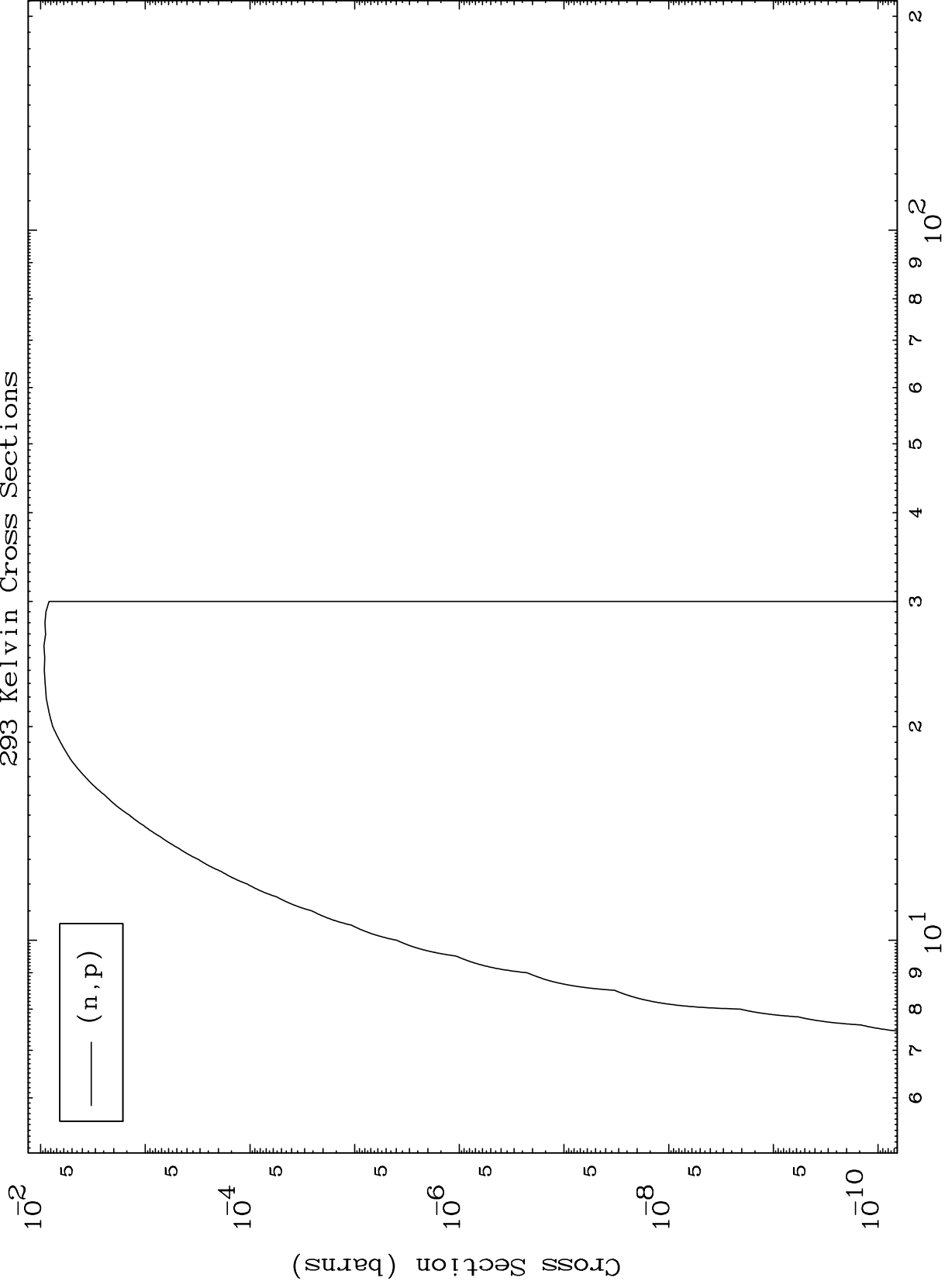
Incident Energy (MeV)

54-Xe-137

MAT 5464

(n,p) Levels  
293 Kelvin Cross Sections

54-Xe-137



10

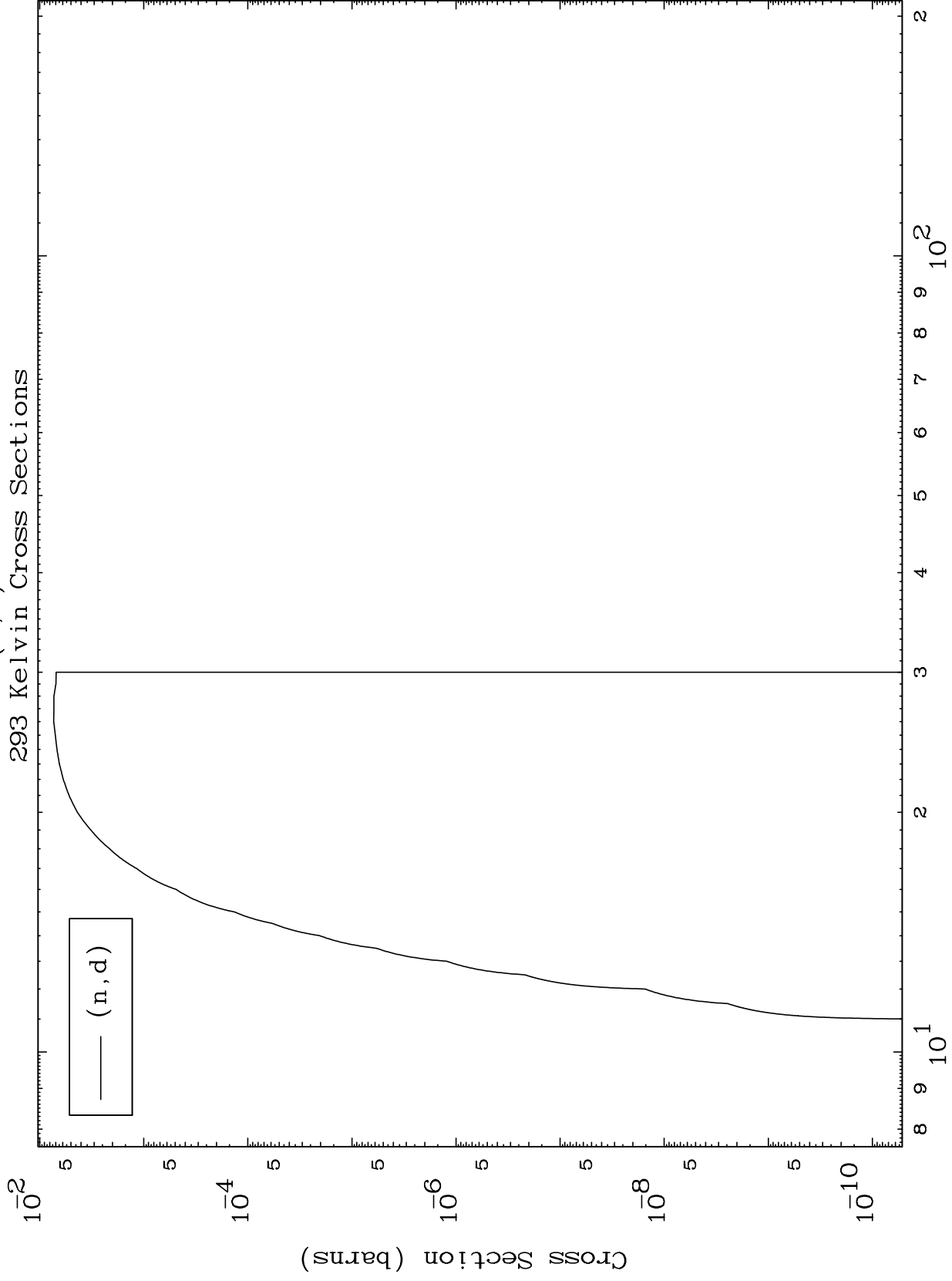
Incident Energy (MeV)

54-Xe-137

MAT 5464

(n,d) Levels  
293 Kelvin Cross Sections

54-Xe-137



11

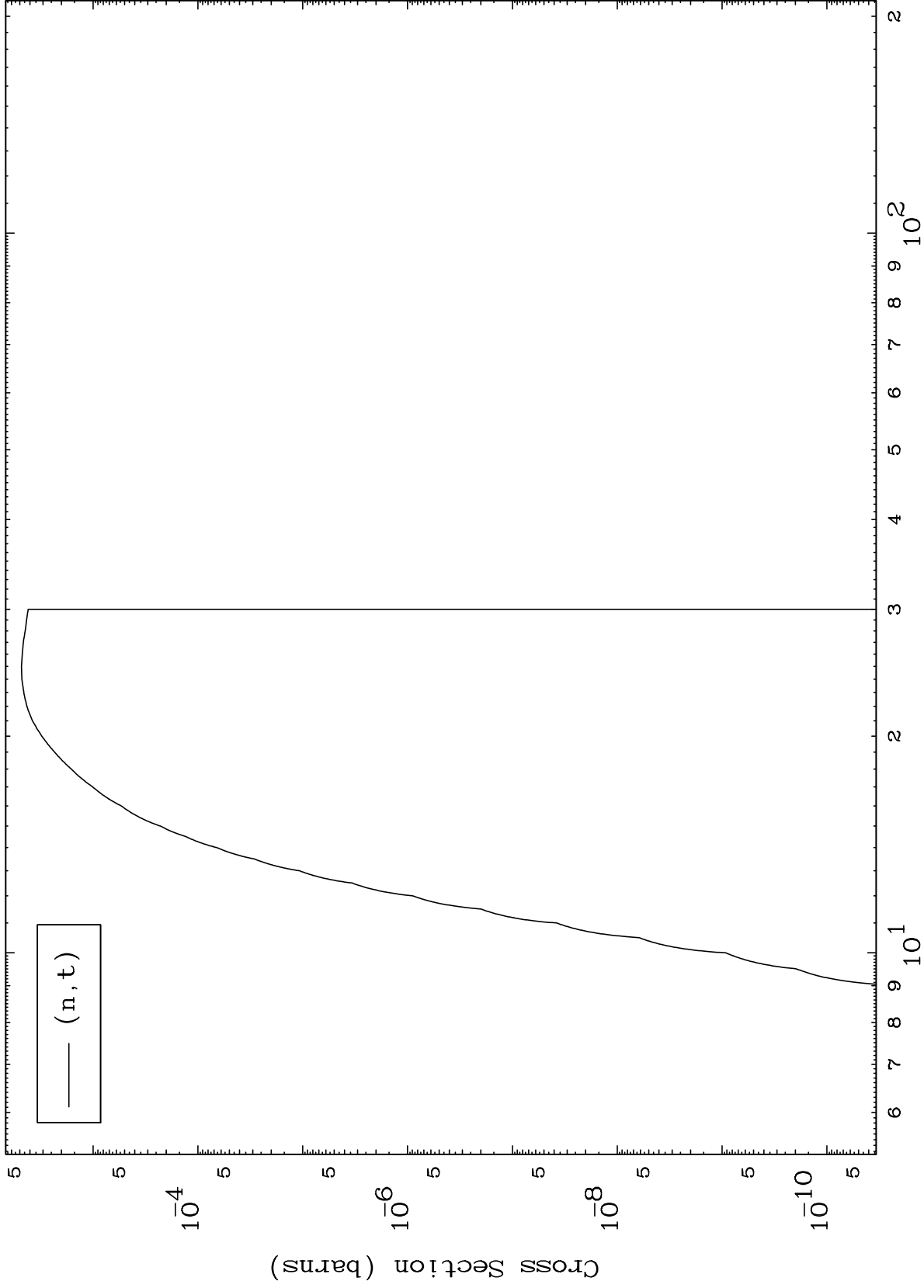
Incident Energy (MeV)

54-Xe-137

MAT 5464

(n,t) Levels  
293 Kelvin Cross Sections

54-Xe-137



12

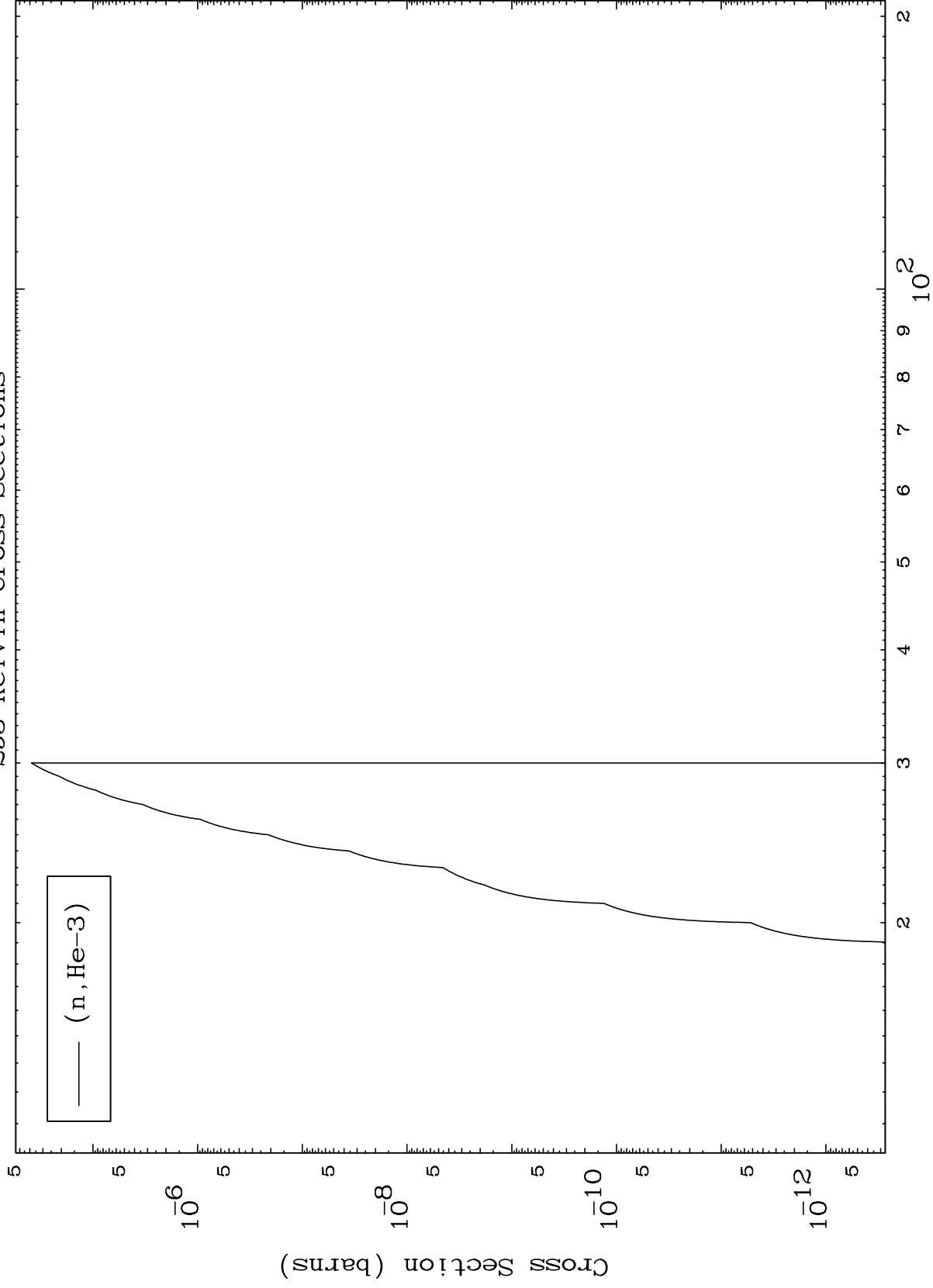
Incident Energy (MeV)

54-Xe-137

MAT 5464

(n,He3) Levels  
293 Kelvin Cross Sections

54-Xe-137



13

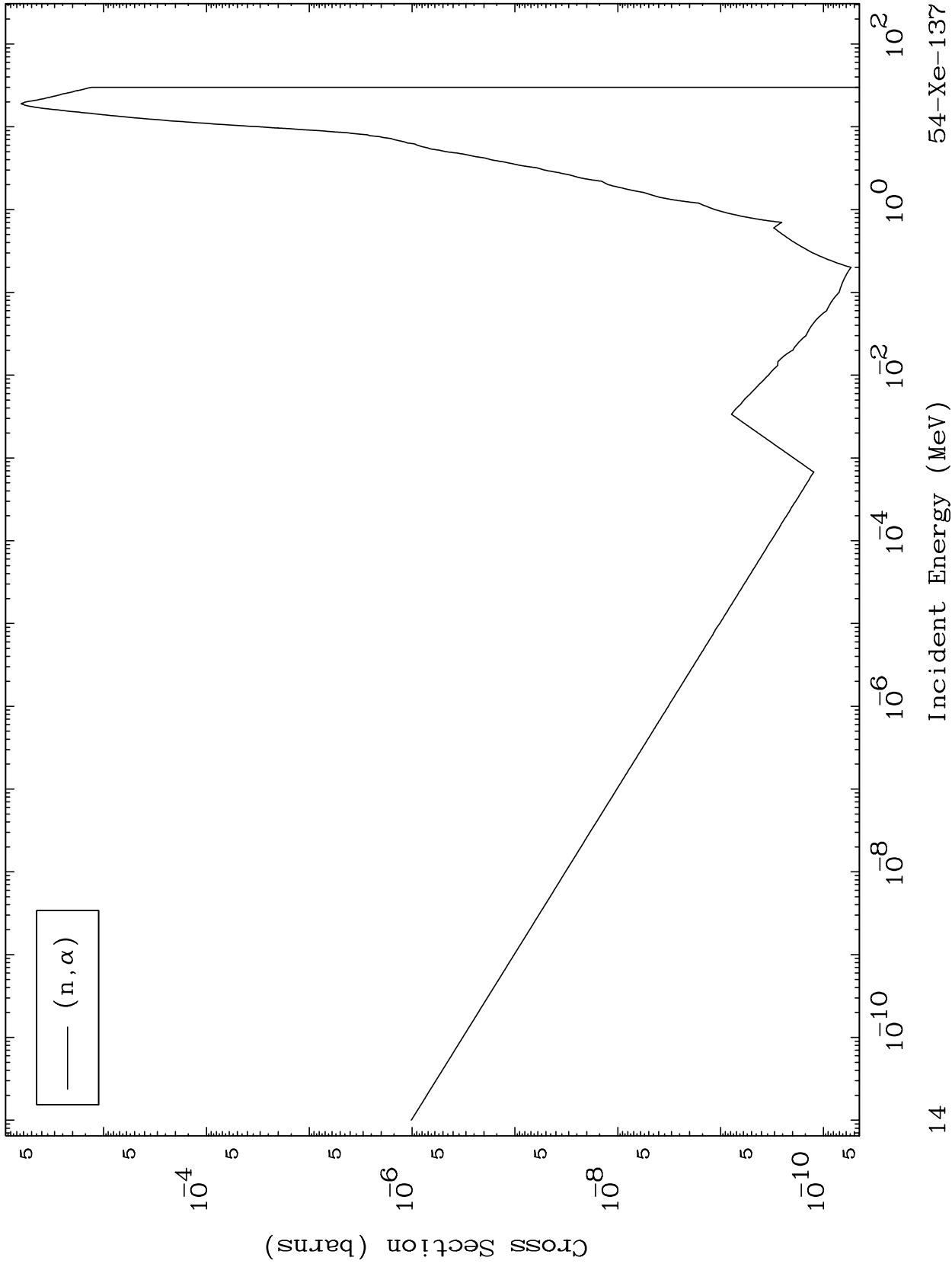
Incident Energy (MeV)

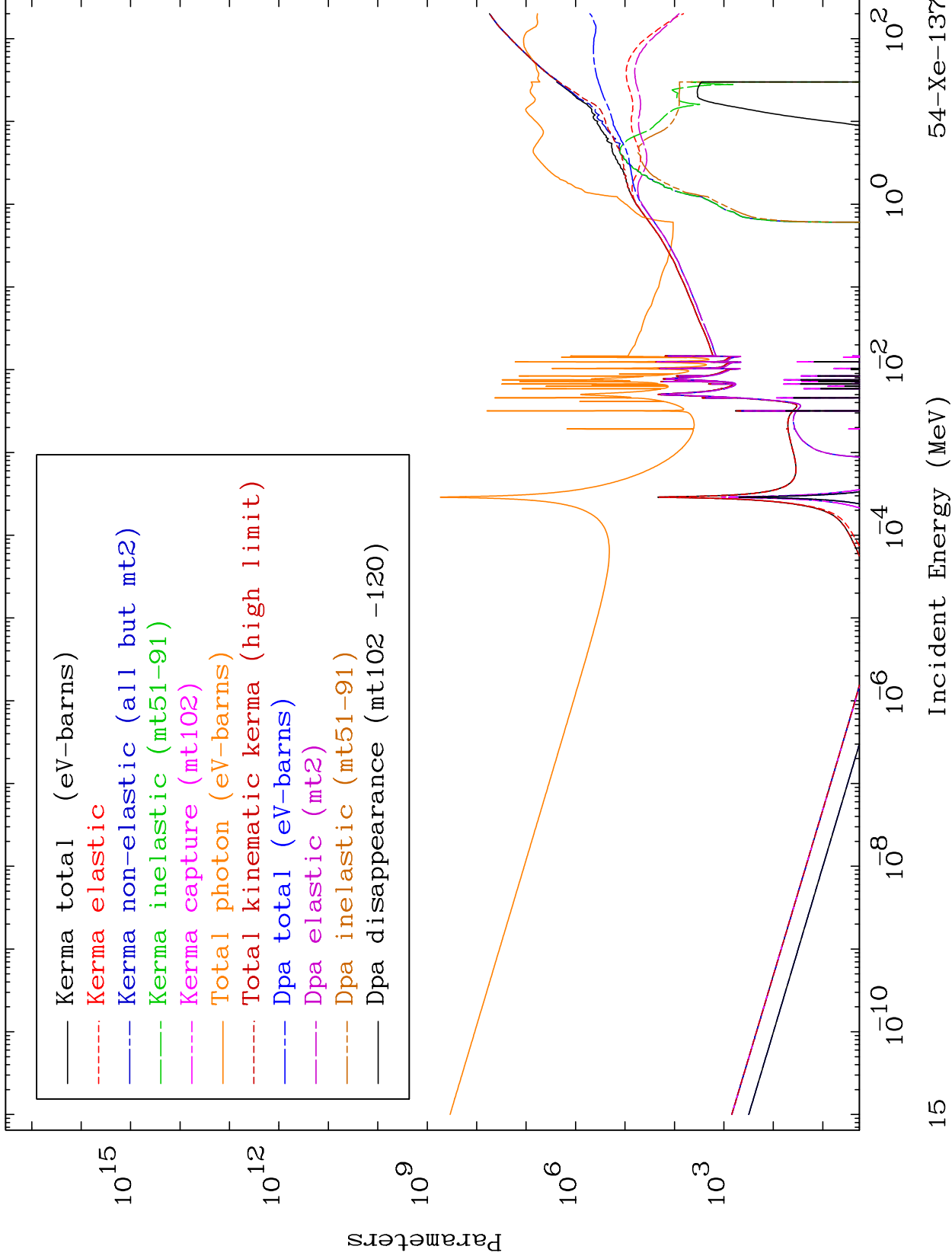
54-Xe-137

MAT 5464

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

54-Xe-137



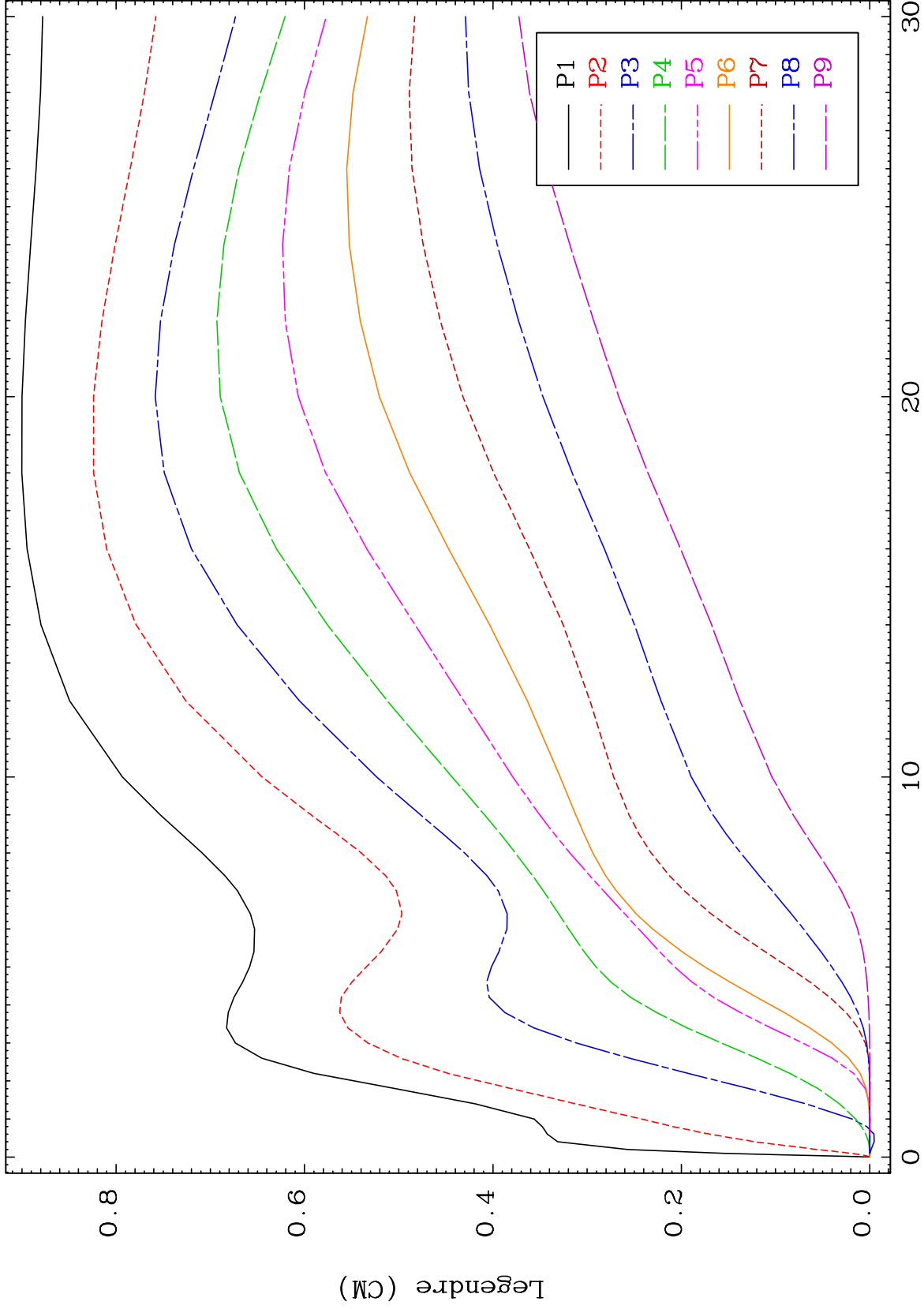




MAT 5464

Elastic Legendre Coefficients

54-Xe-137



16

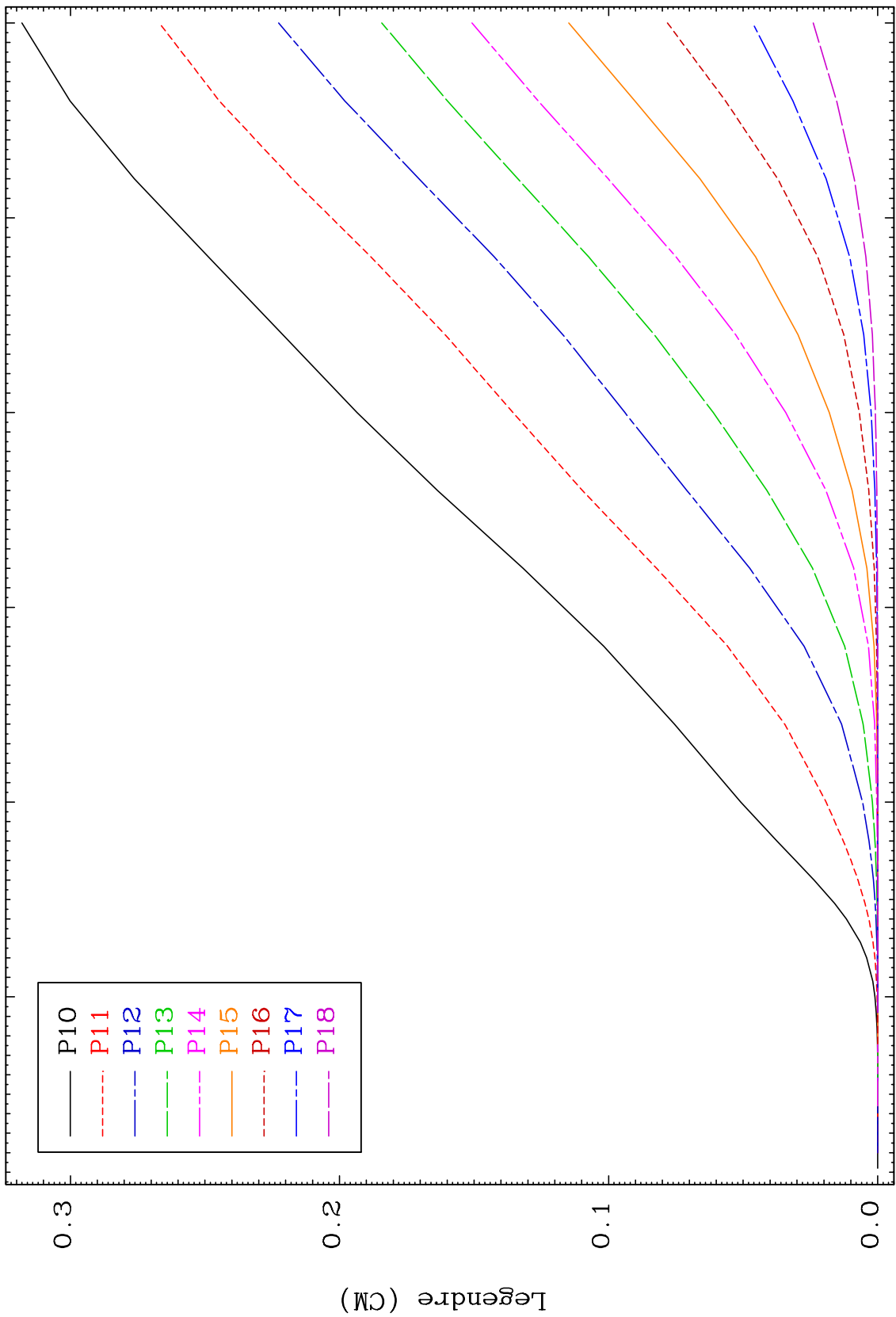
Incident Energy (MeV)

54-Xe-137

MAT 5464

Elastic Legendre Coefficients

54-Xe-137



17

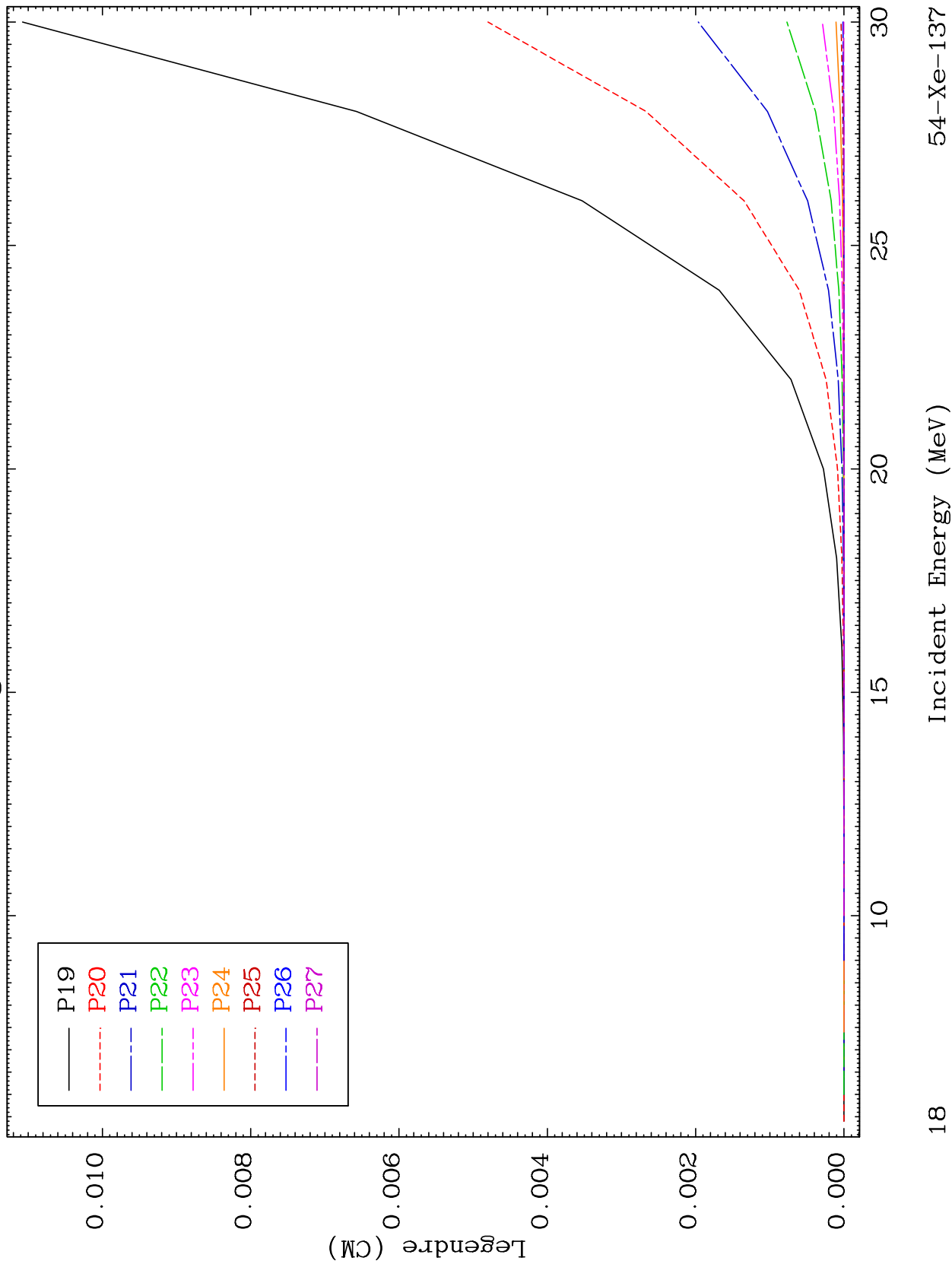
Incident Energy (MeV)

54-Xe-137

MAT 5464

### Elastic Legendre Coefficients

54-Xe-137



18

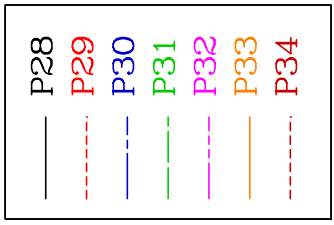
Incident Energy (MeV)

54-Xe-137

MAT 5464

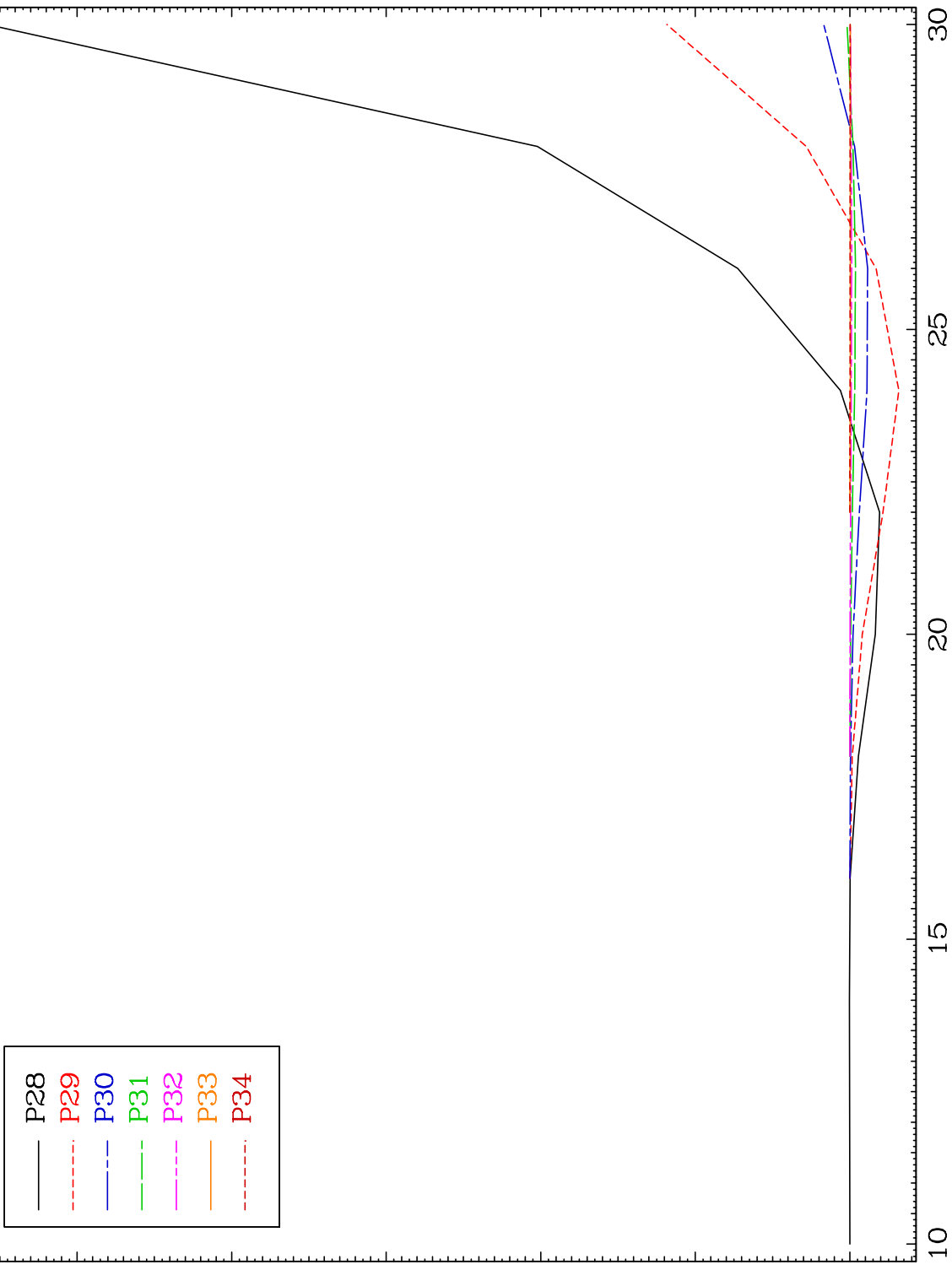
Elastic Legendre Coefficients

54-Xe-137



$\times 10^{-6}$

Legendre (CM)



30

25

20

15

10

Incident Energy (MeV)

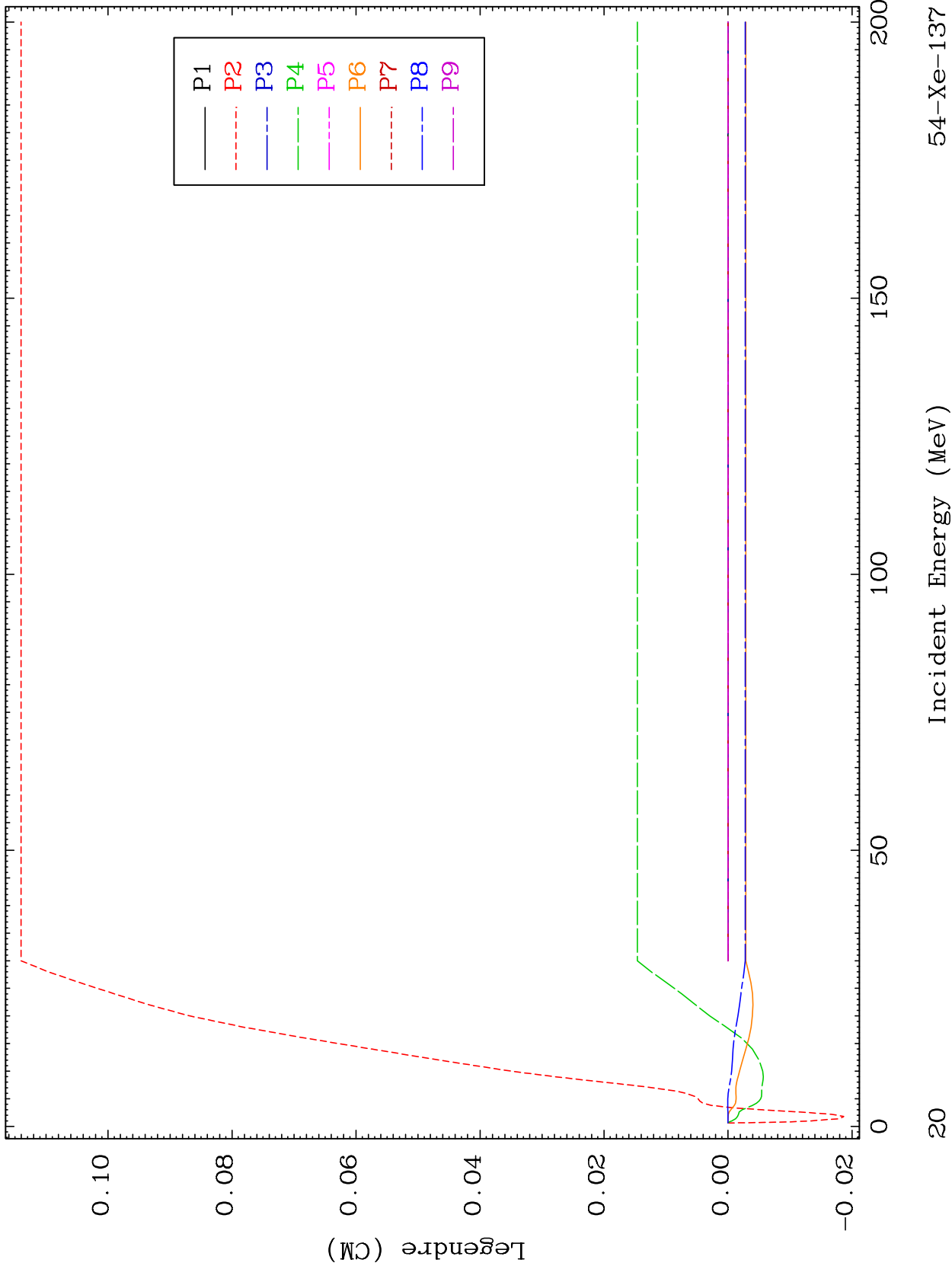
54-Xe-137

19

MAT 5464

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

54-Xe-137

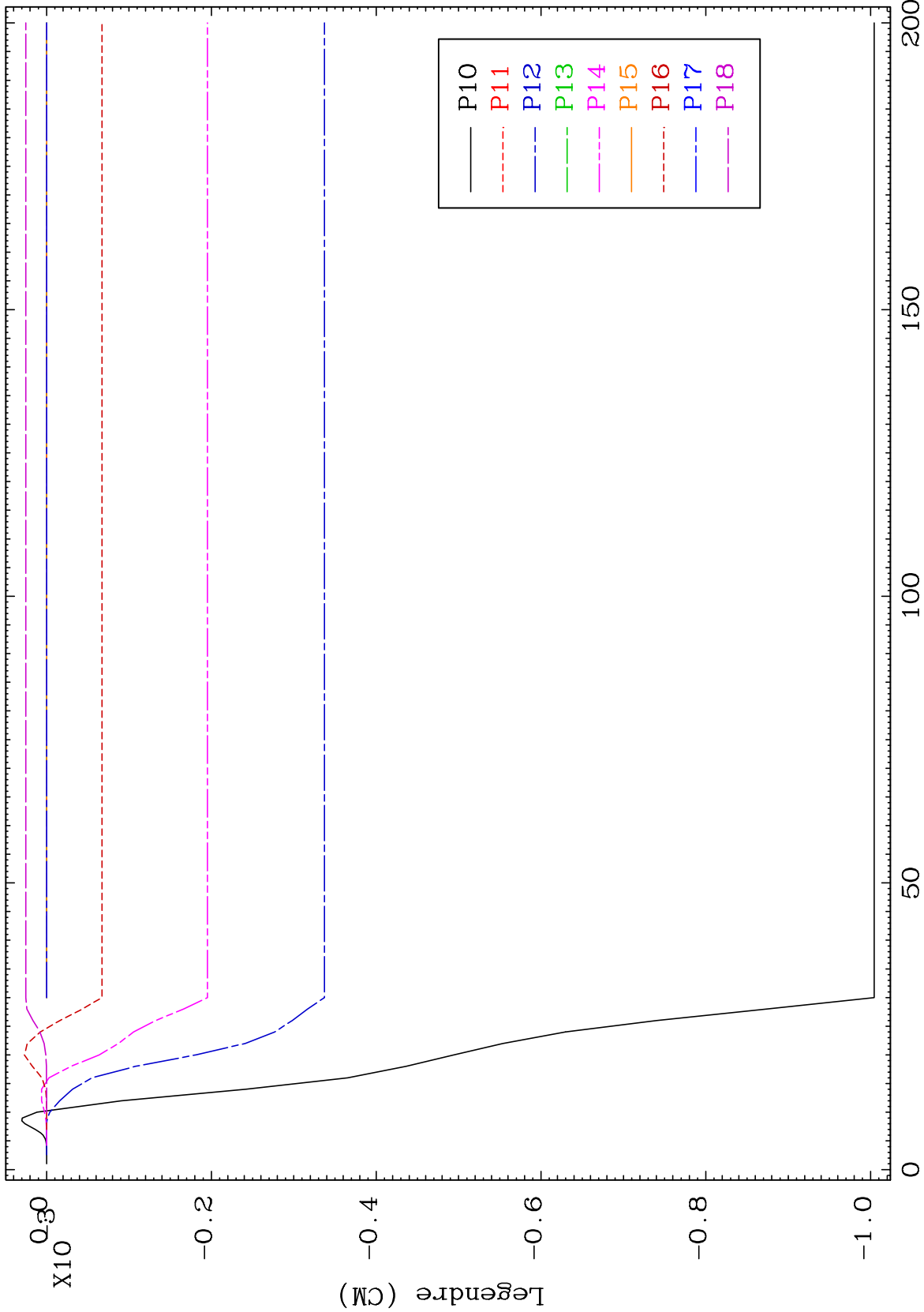


54-Xe-137

MAT 5464

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

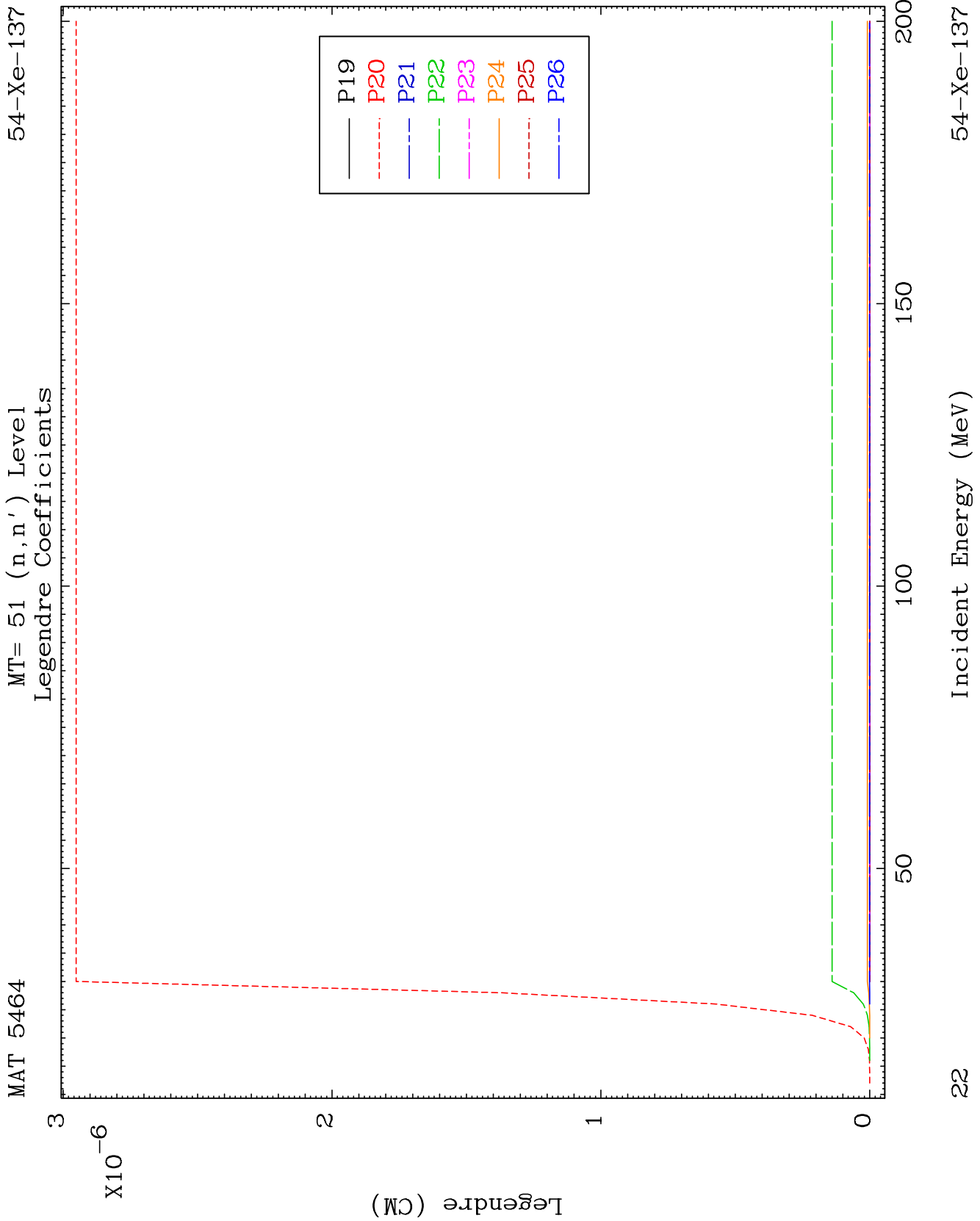
54-Xe-137



21

Incident Energy (MeV)

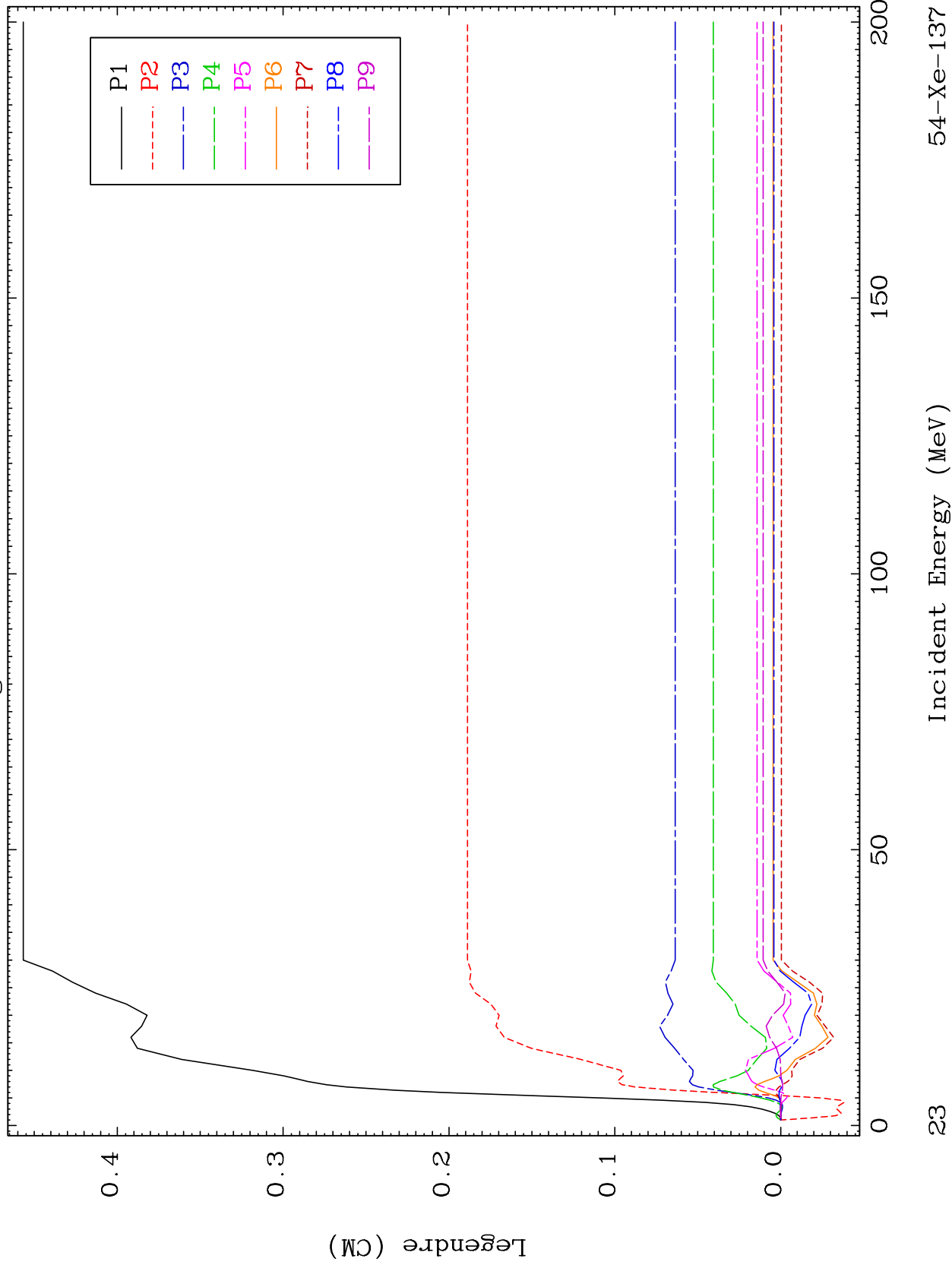
54-Xe-137



MAT 5464

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

54-Xe-137



54-Xe-137

Incident Energy (MeV)

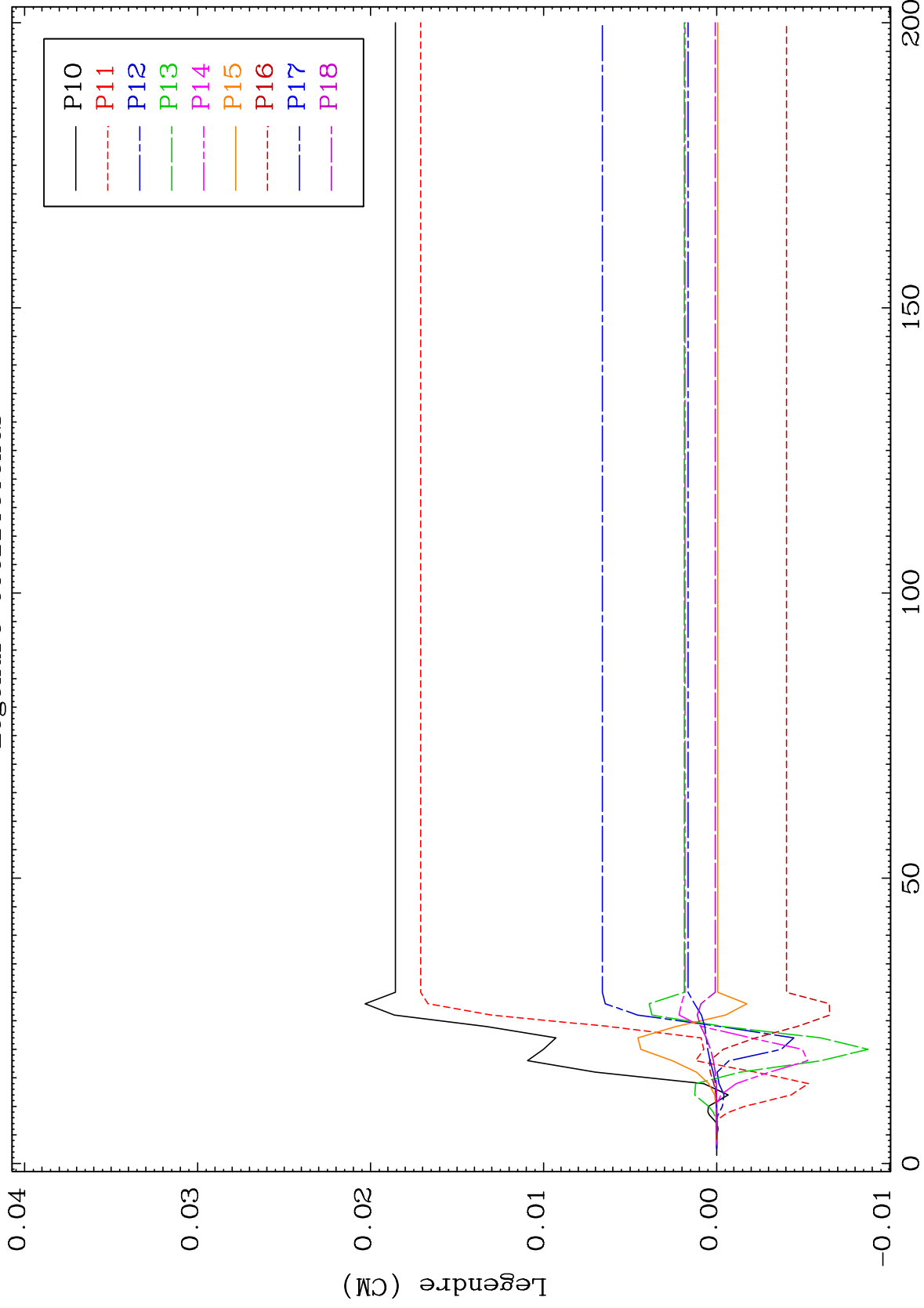
23



MAT 5464

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

54-Xe-137



24

Incident Energy (MeV)

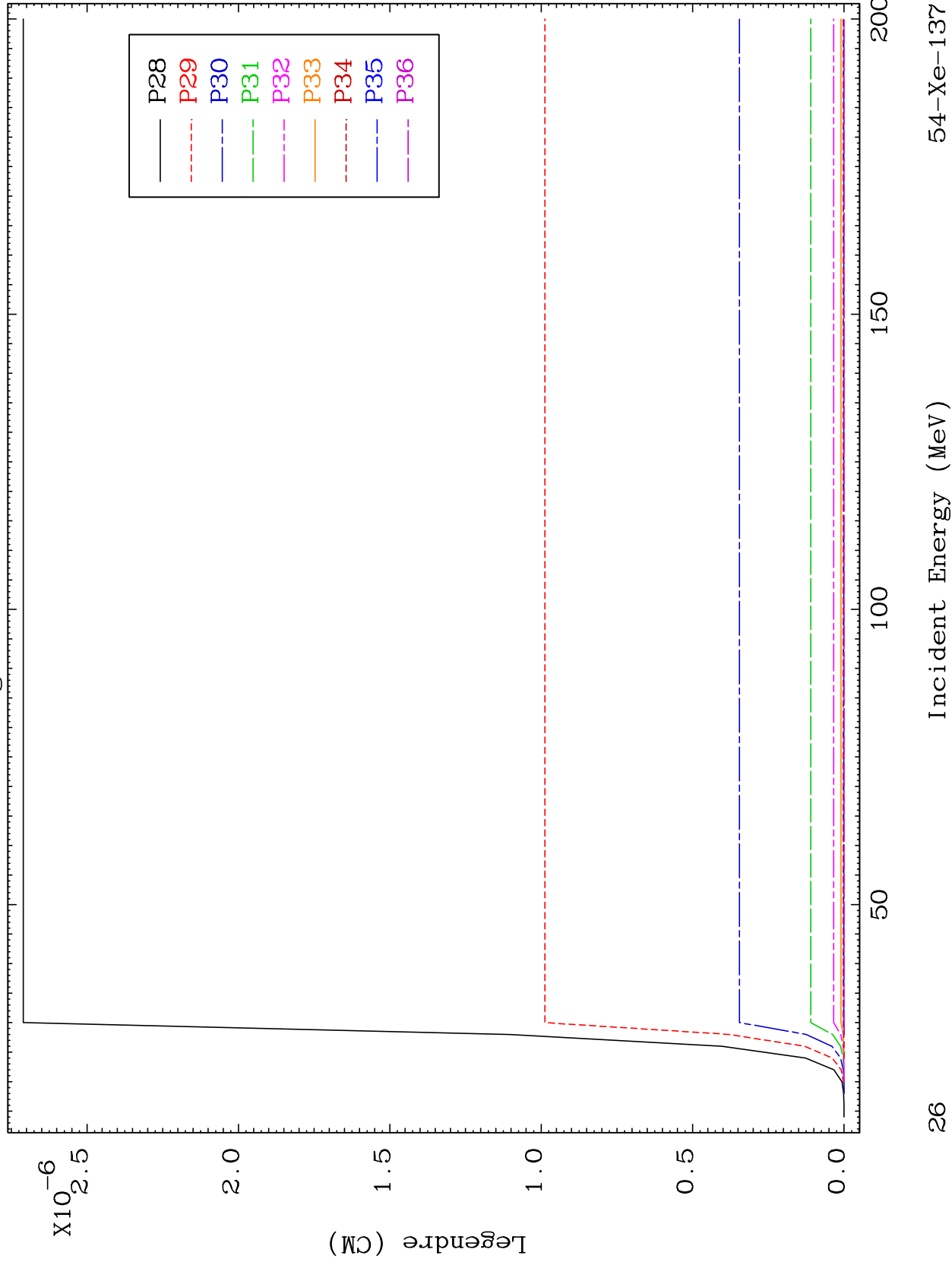
54-Xe-137



MAT 5464

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

54-Xe-137



26

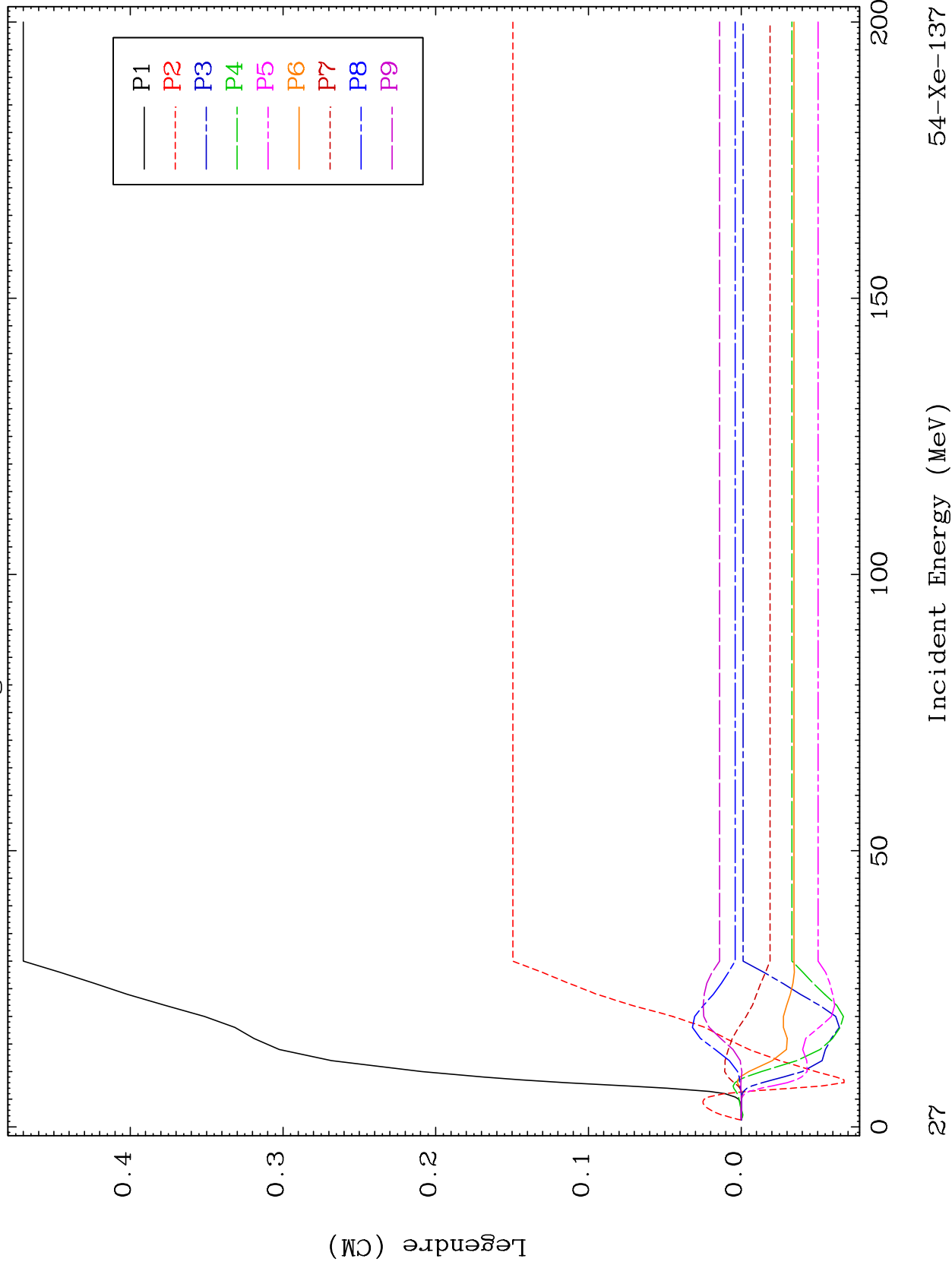
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



27

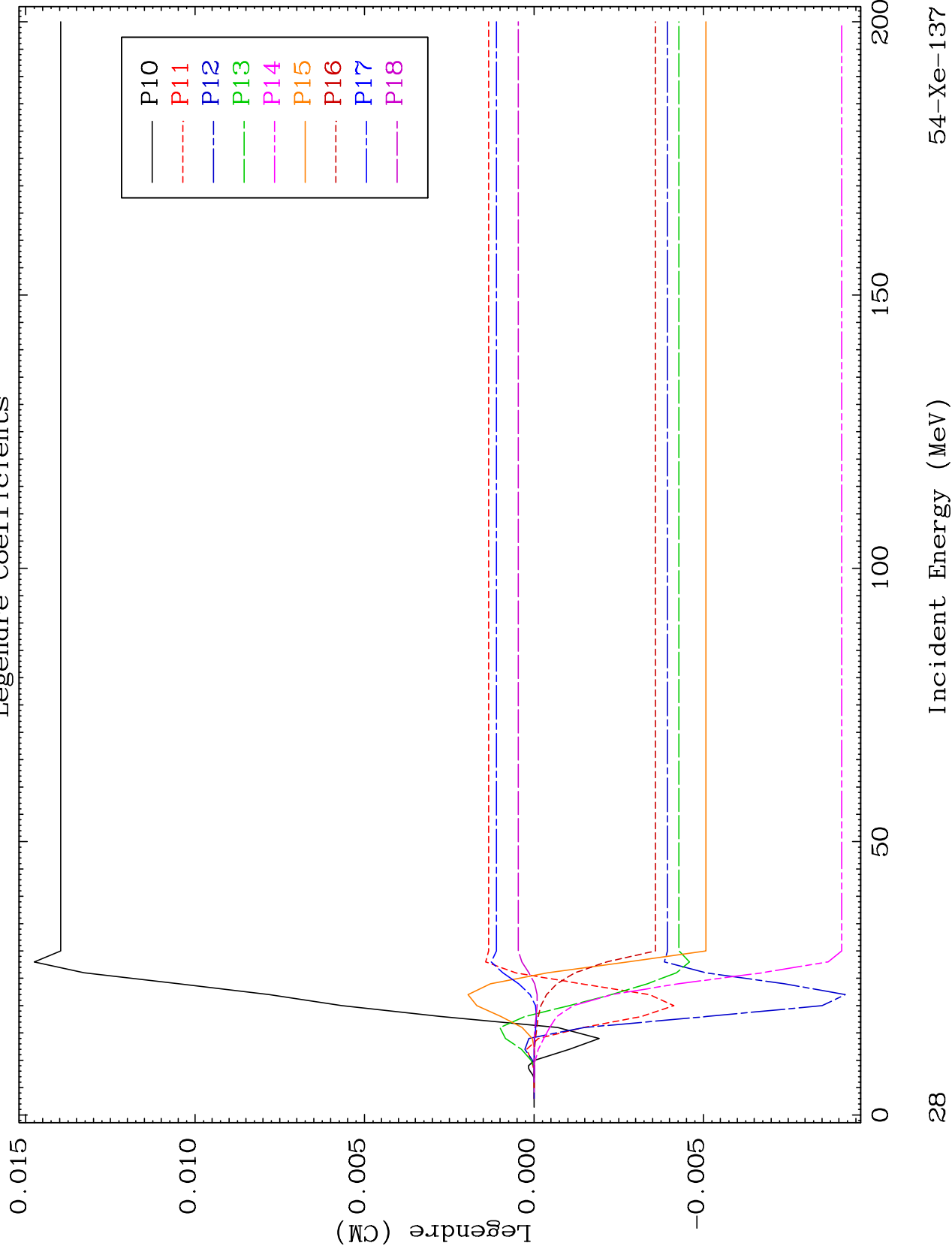
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



54-Xe-137

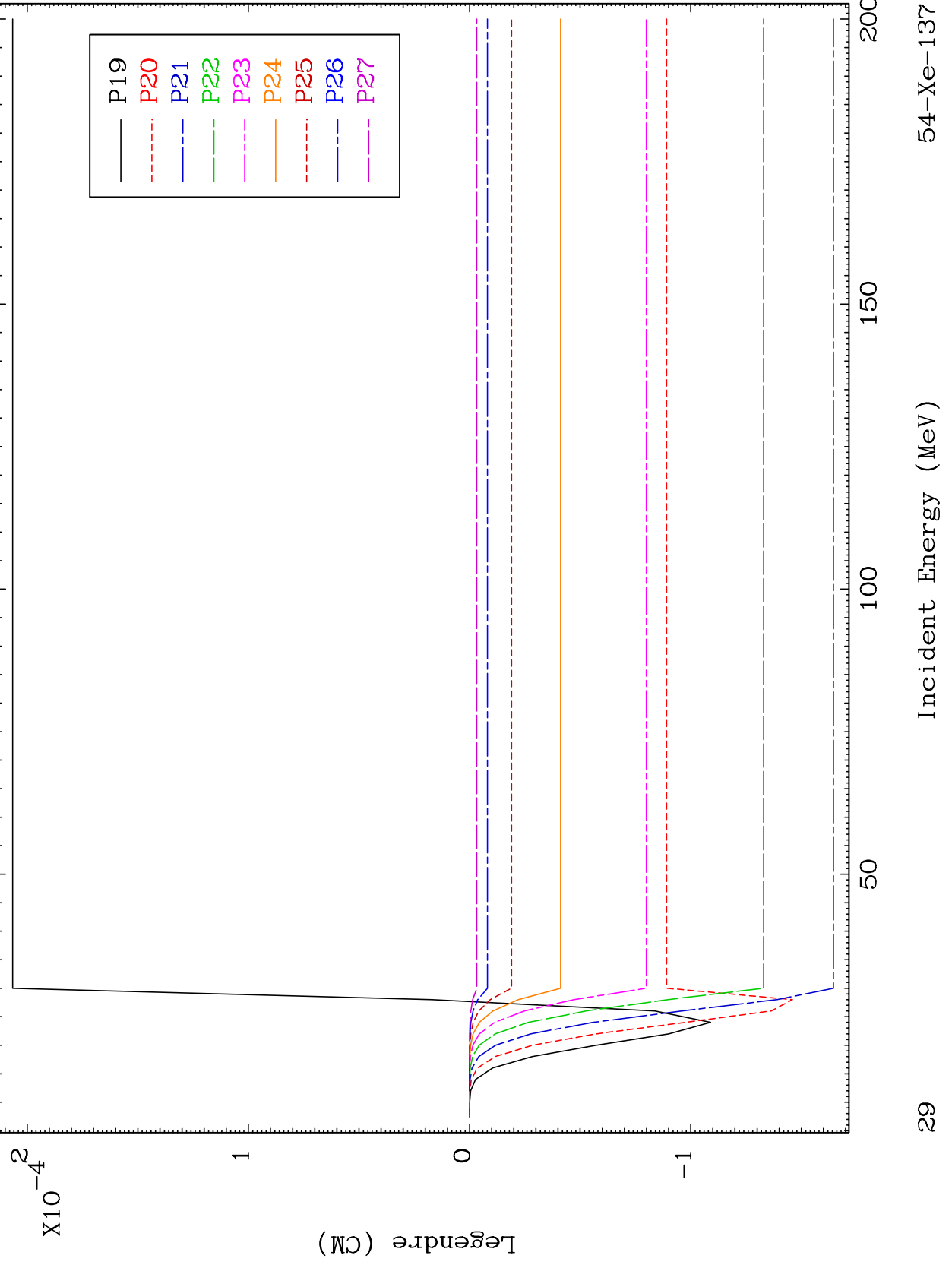
Incident Energy (MeV)

28

MAT 5464

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

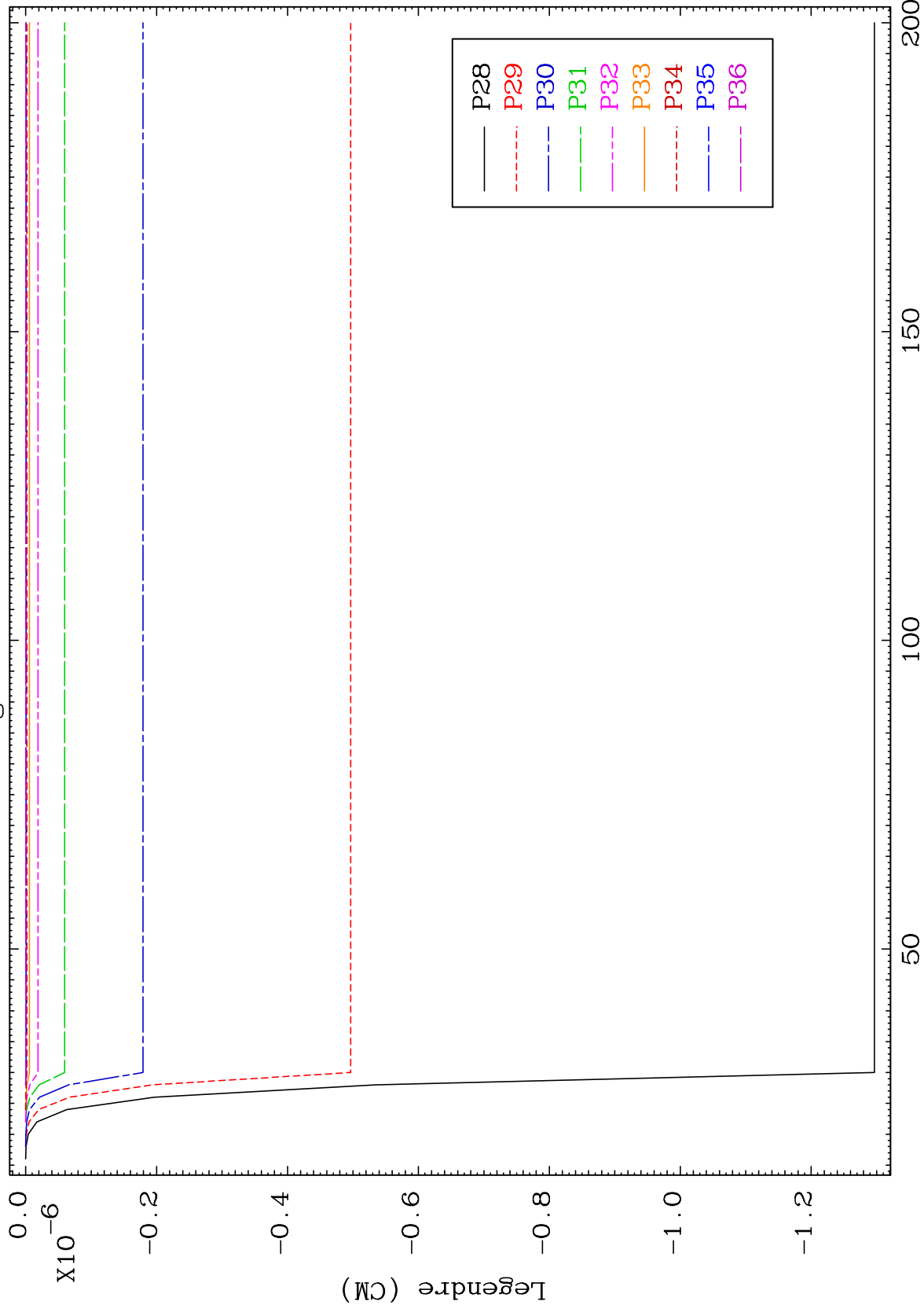
54-Xe-137



MAT 5464

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

54-Xe-137



30

Incident Energy (MeV)

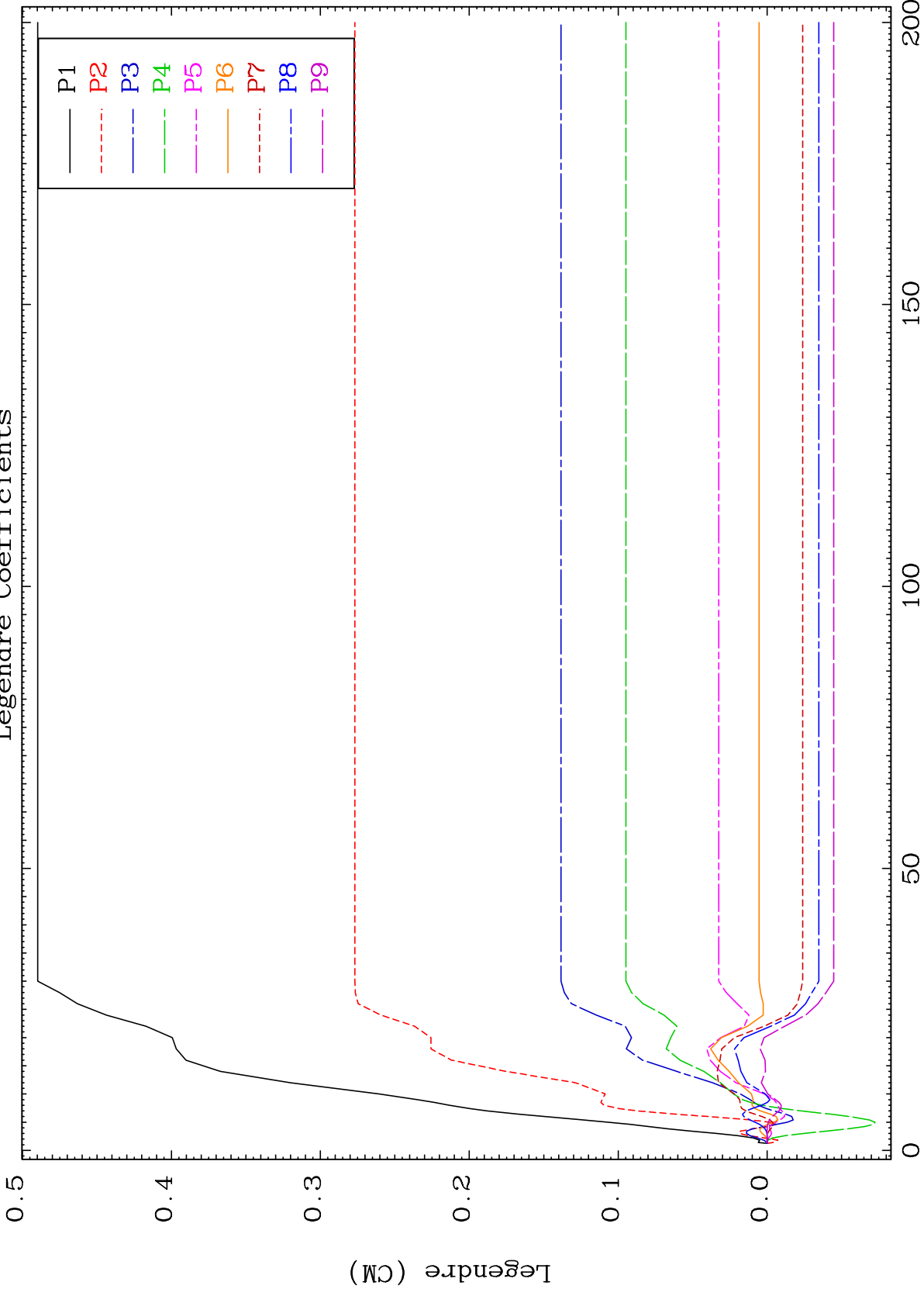
54-Xe-137

MAT 5464

MT= 54 (n,n') Level

54-Xe-137

Legendre Coefficients

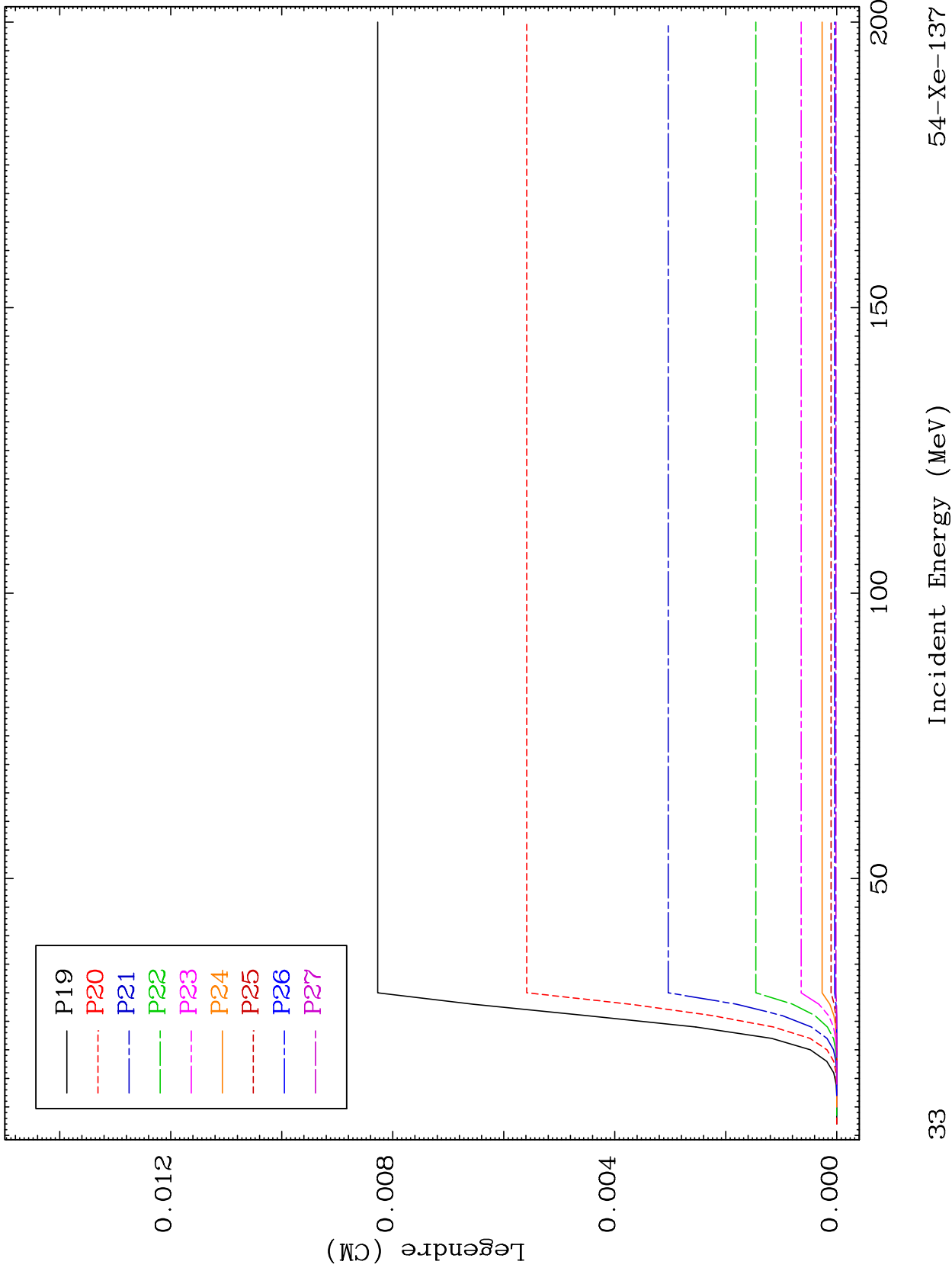


31

54-Xe-137



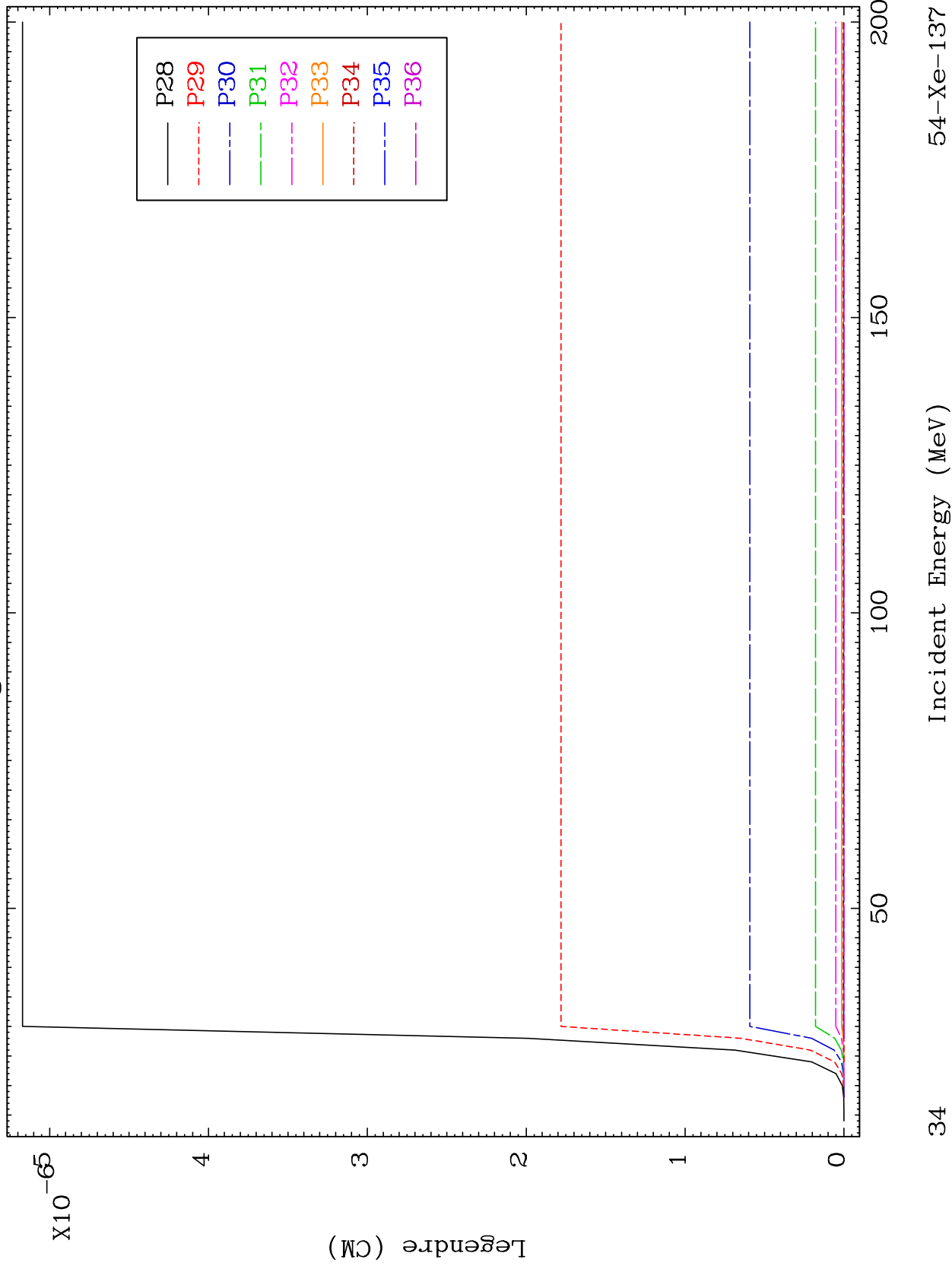




MAT 5464

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

54-Xe-137



34

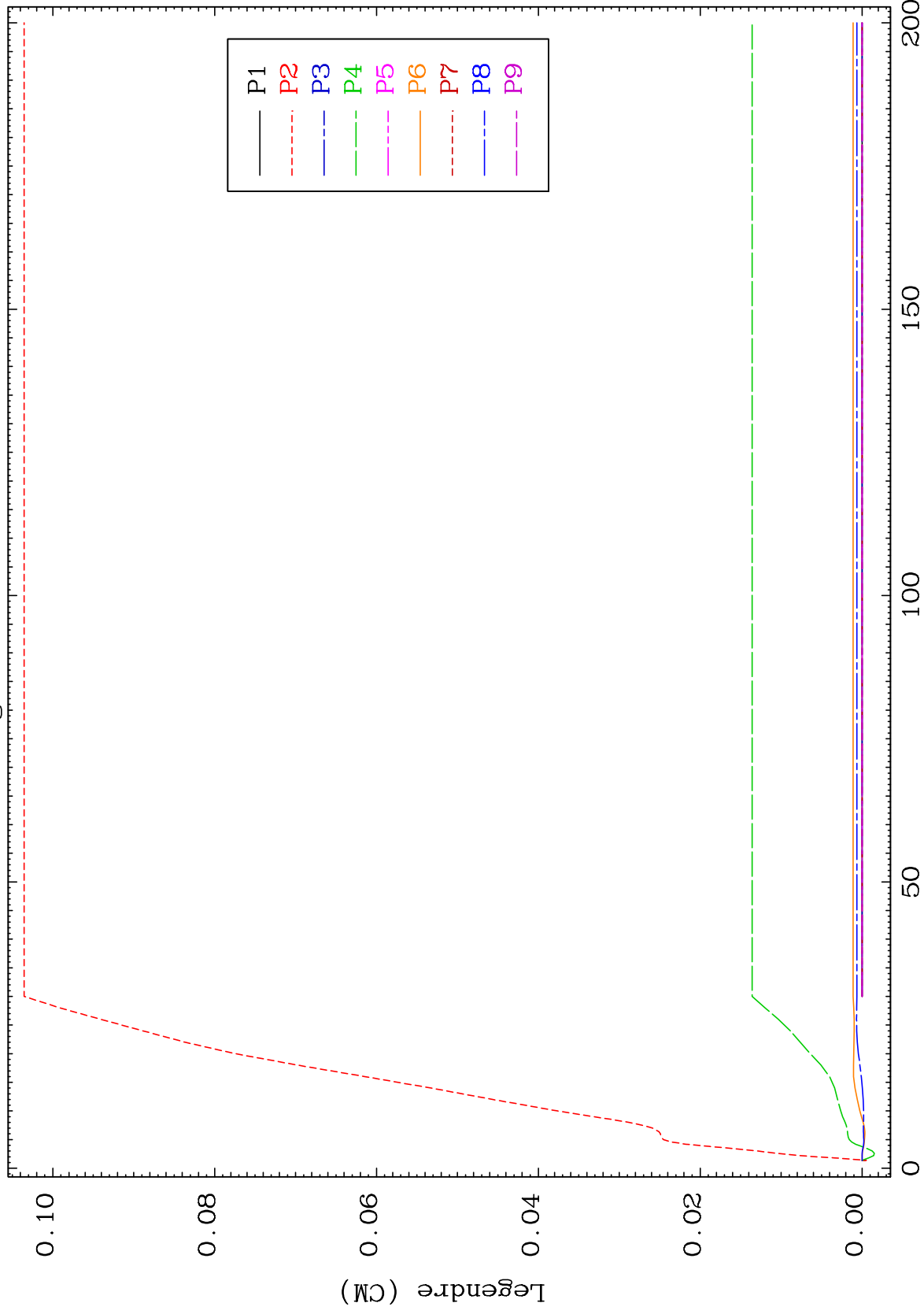
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



54-Xe-137

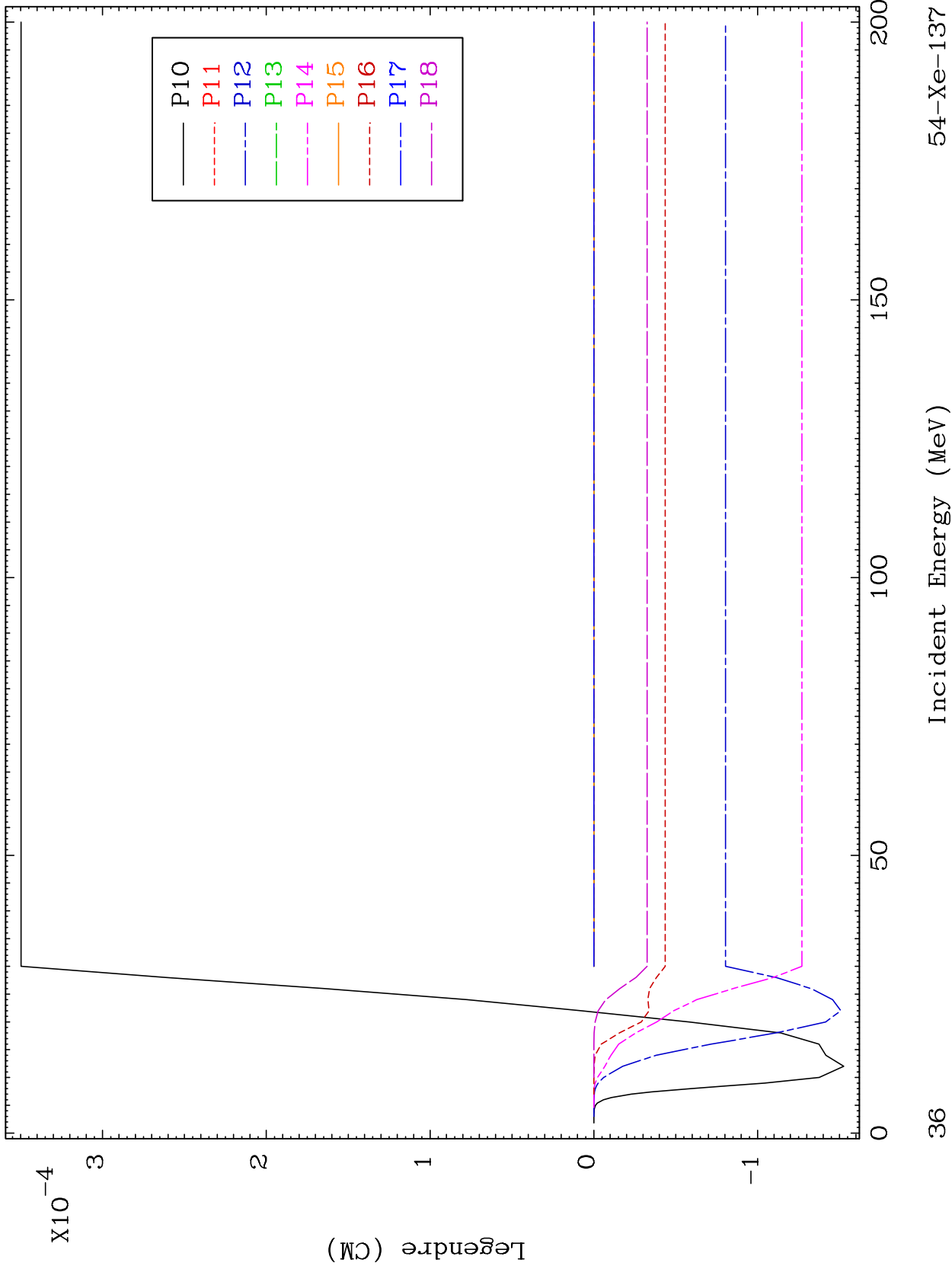
Incident Energy (MeV)

35

MAT 5464

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

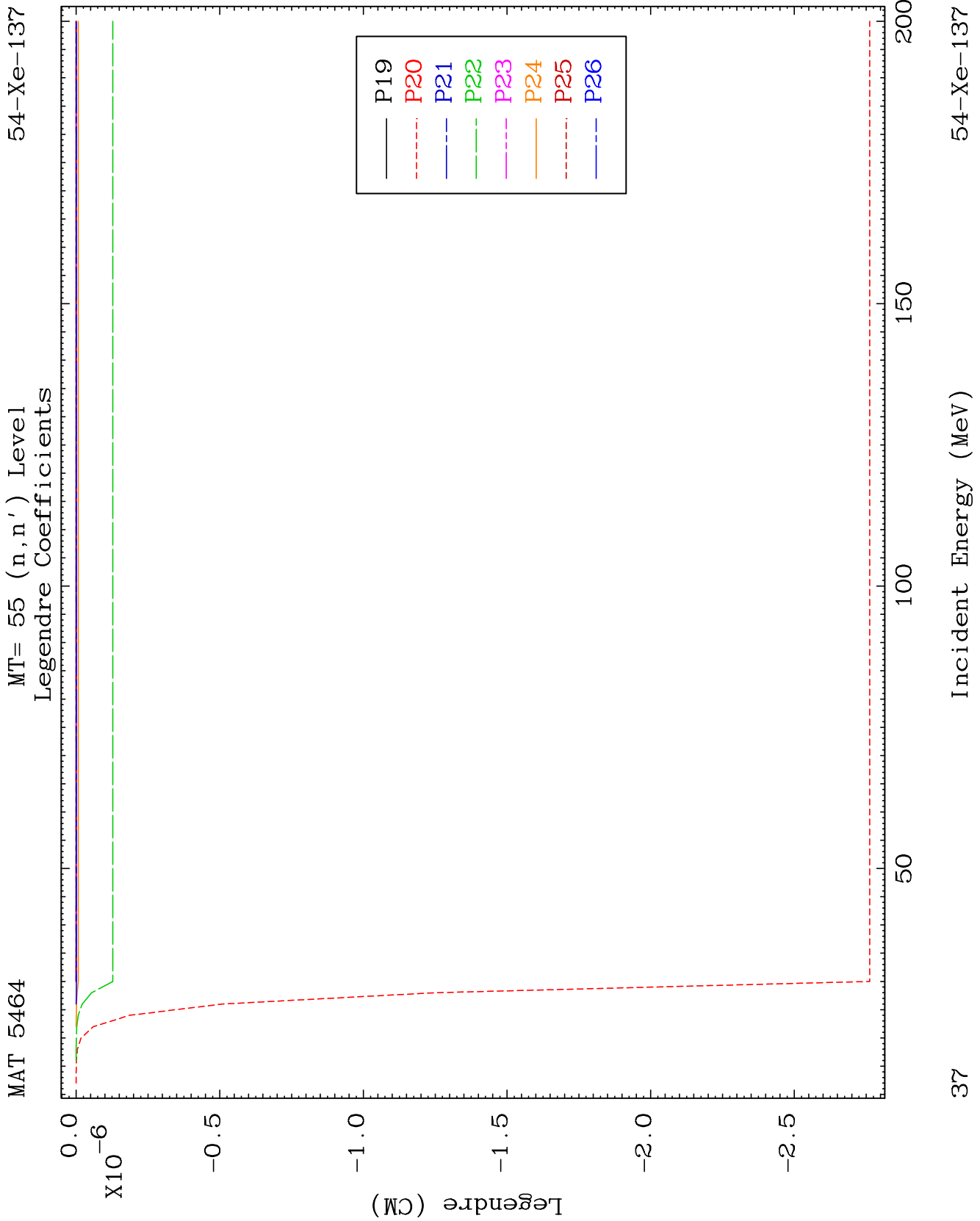
54-Xe-137



54-Xe-137

Incident Energy (MeV)

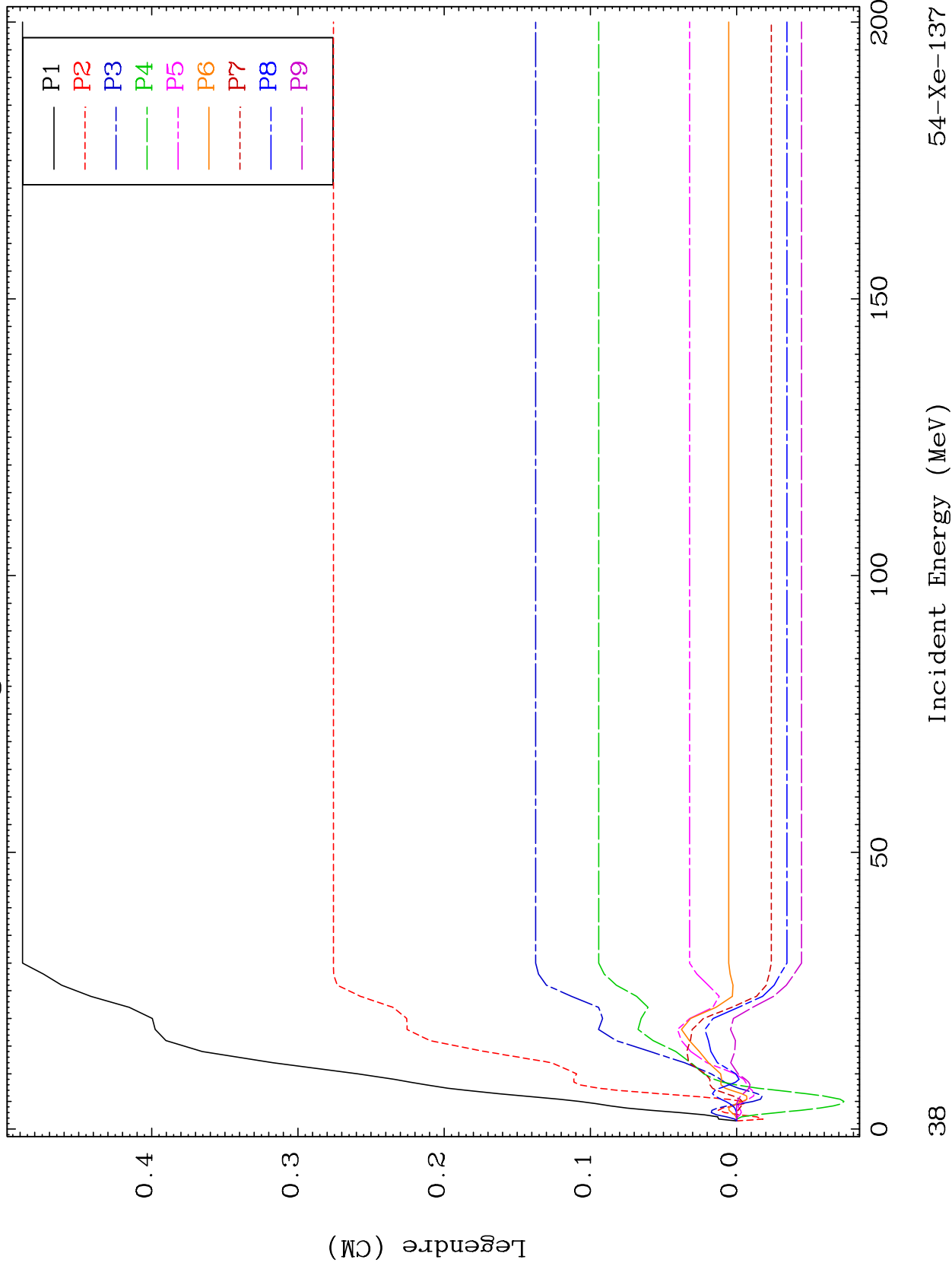
36



MAT 5464

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

54-Xe-137



54-Xe-137

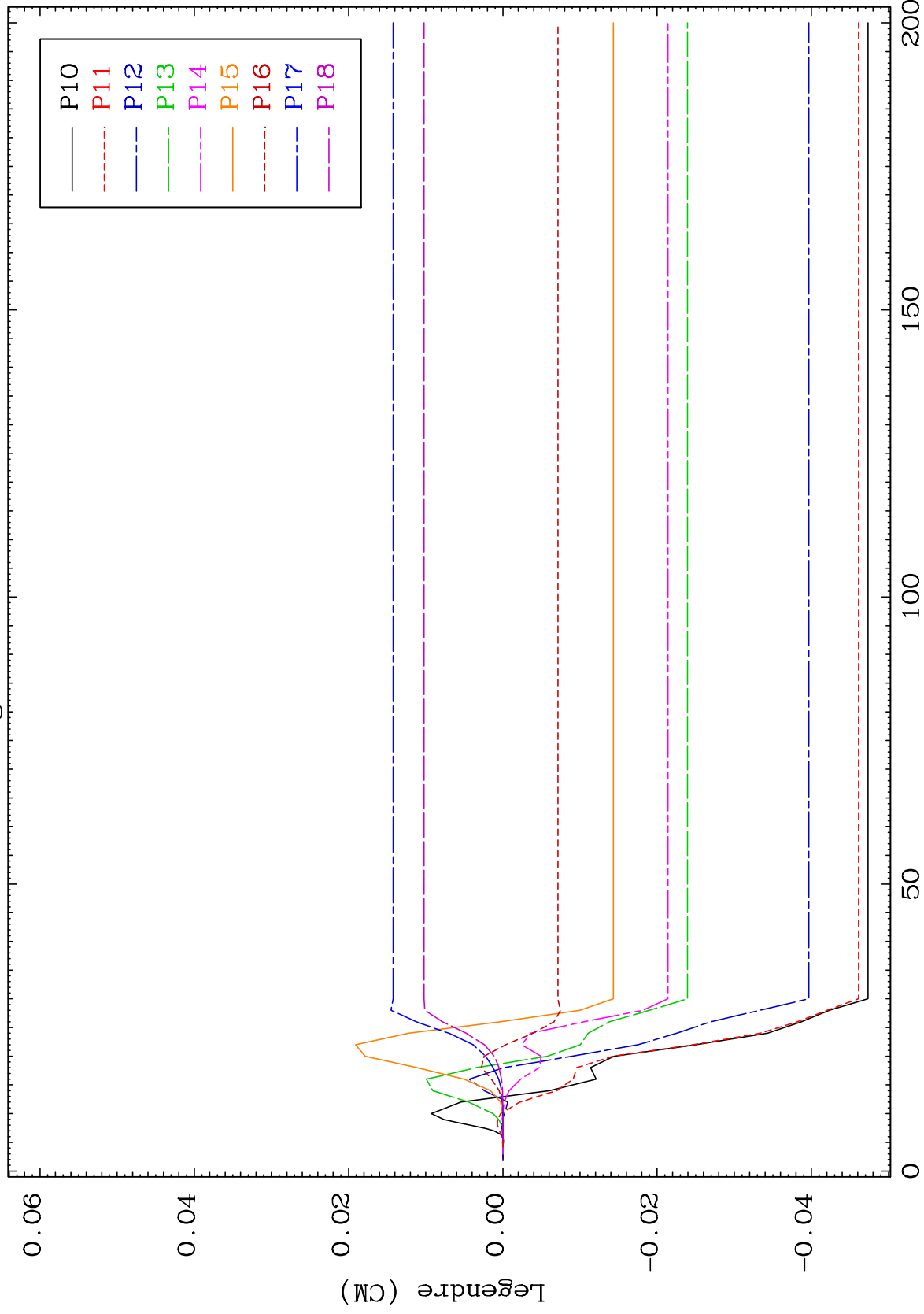
Incident Energy (MeV)

38

MAT 5464

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

54-Xe-137



39

Incident Energy (MeV)

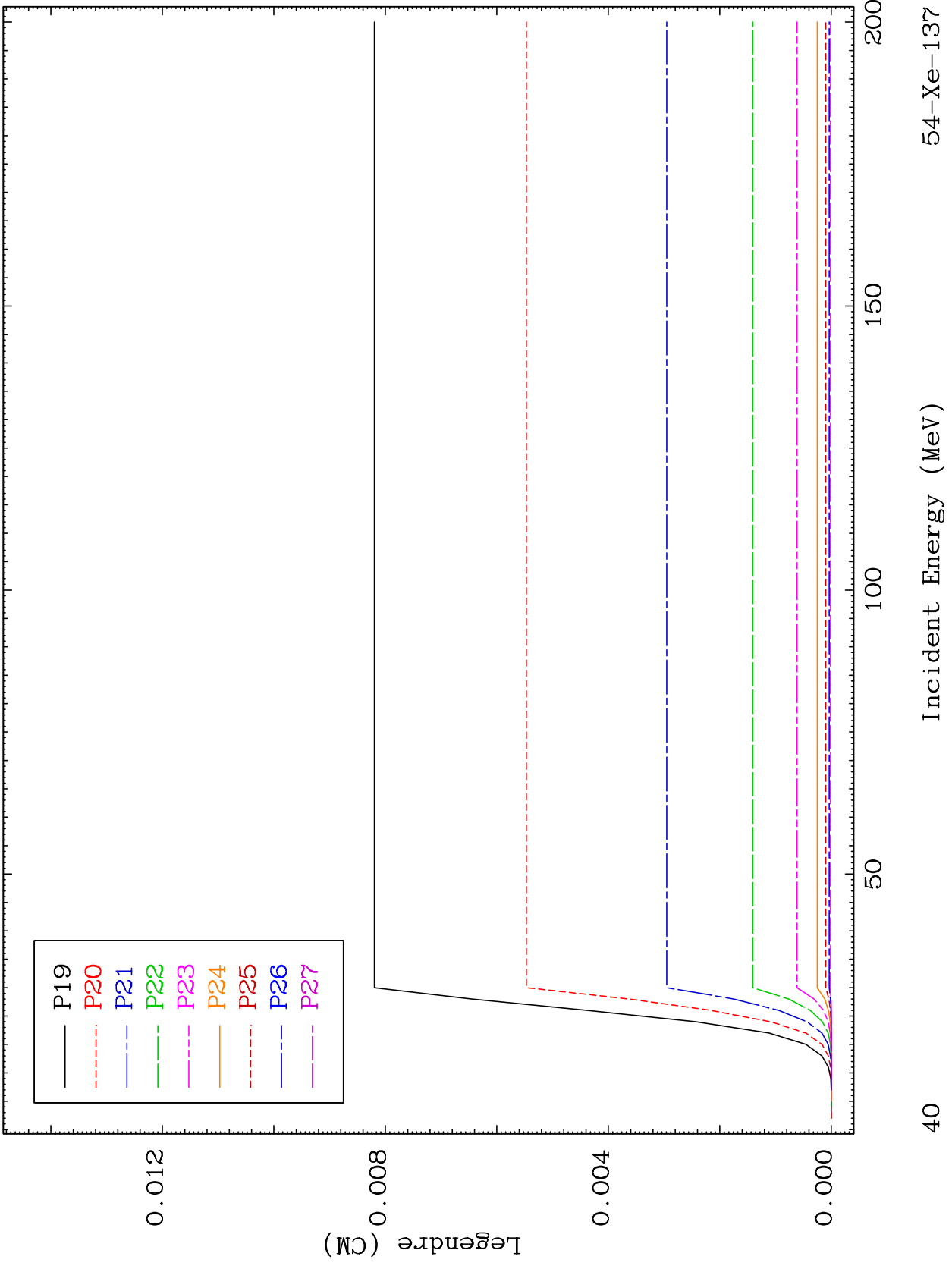
54-Xe-137



MAT 5464

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

54-Xe-137



40

50

100

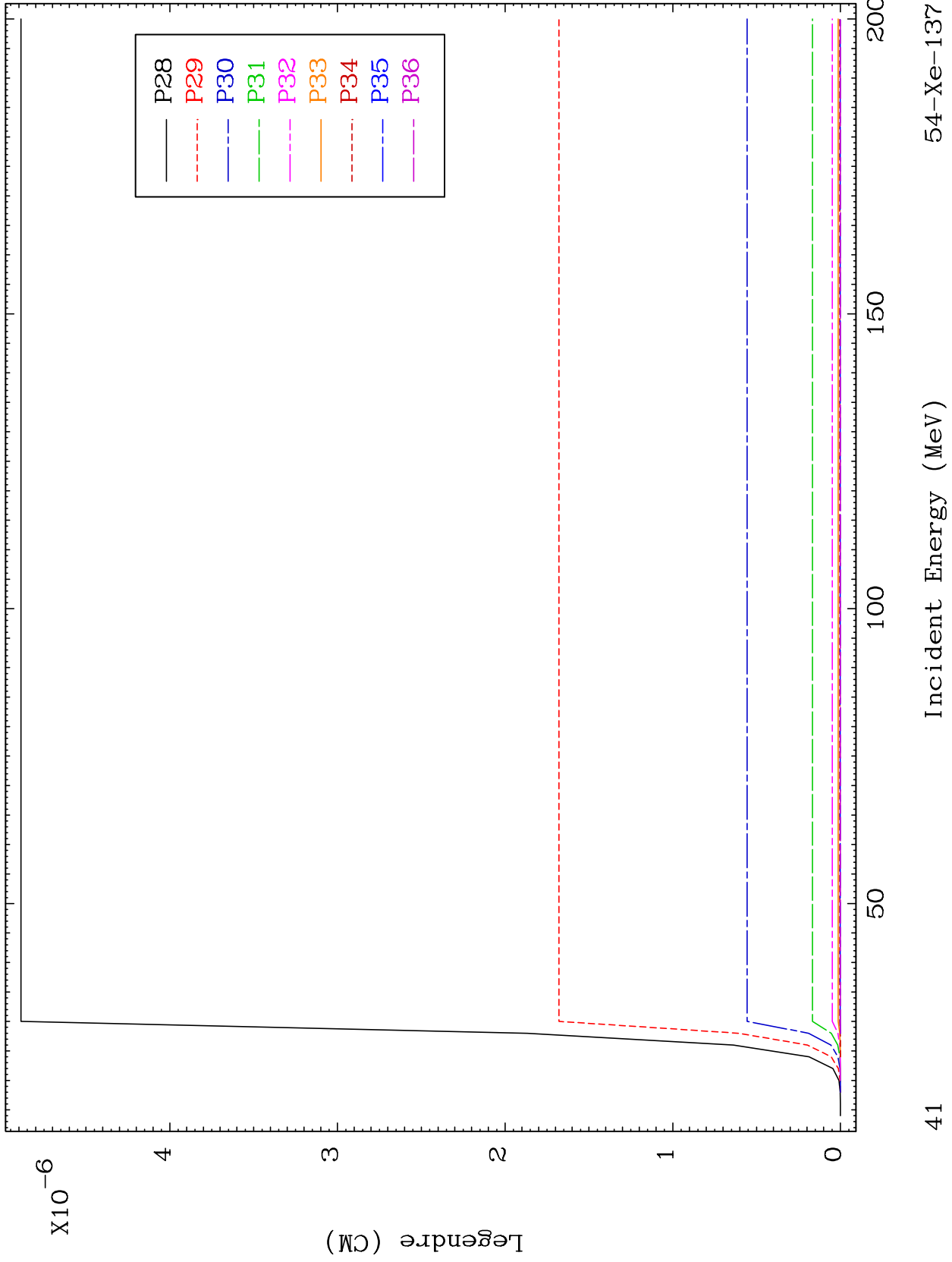
150

200

MAT 5464

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

54-Xe-137

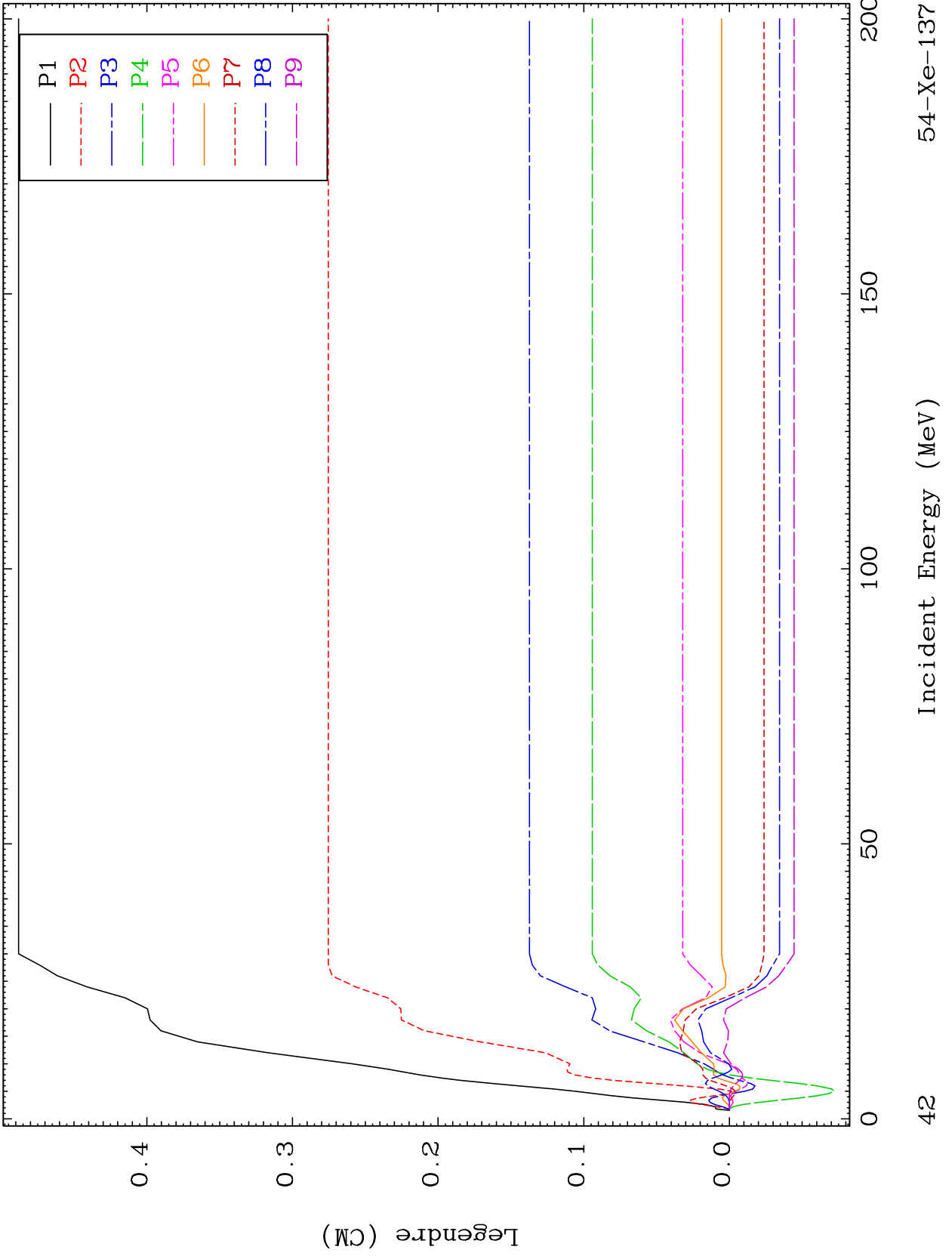


41

MAT 5464

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

54-Xe-137



54-Xe-137

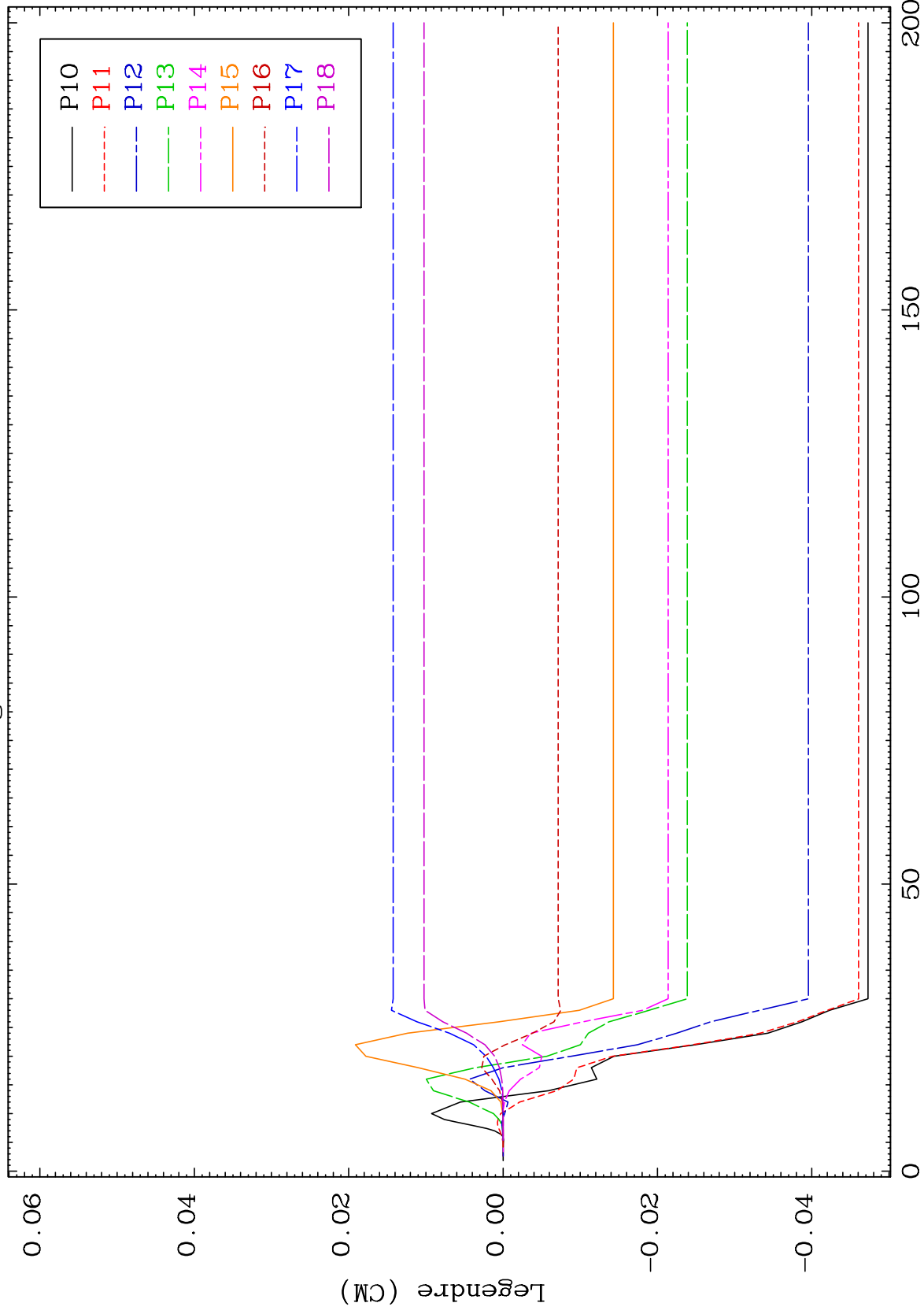
Incident Energy (MeV)

42

MAT 5464

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

54-Xe-137



43

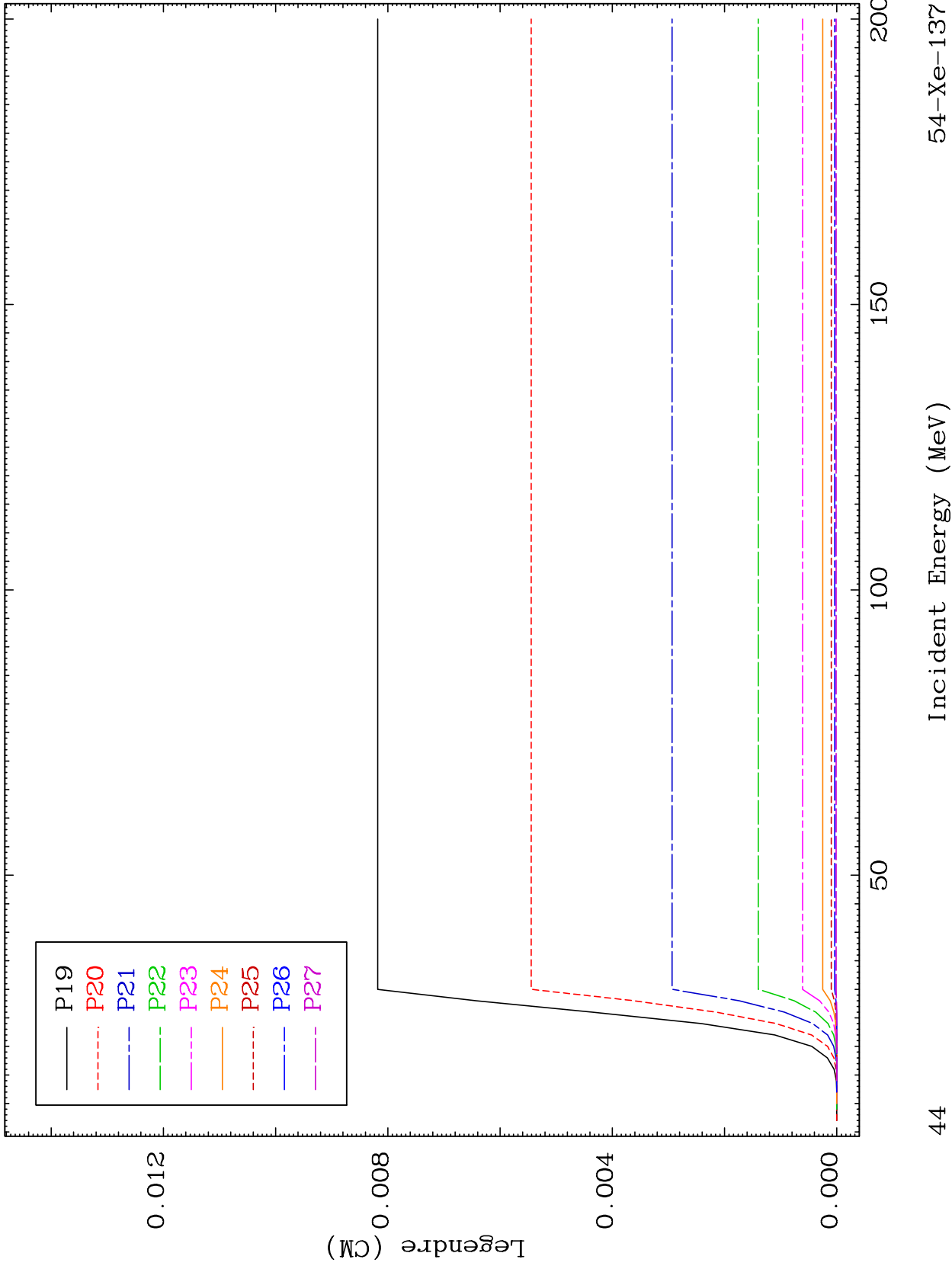
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



44

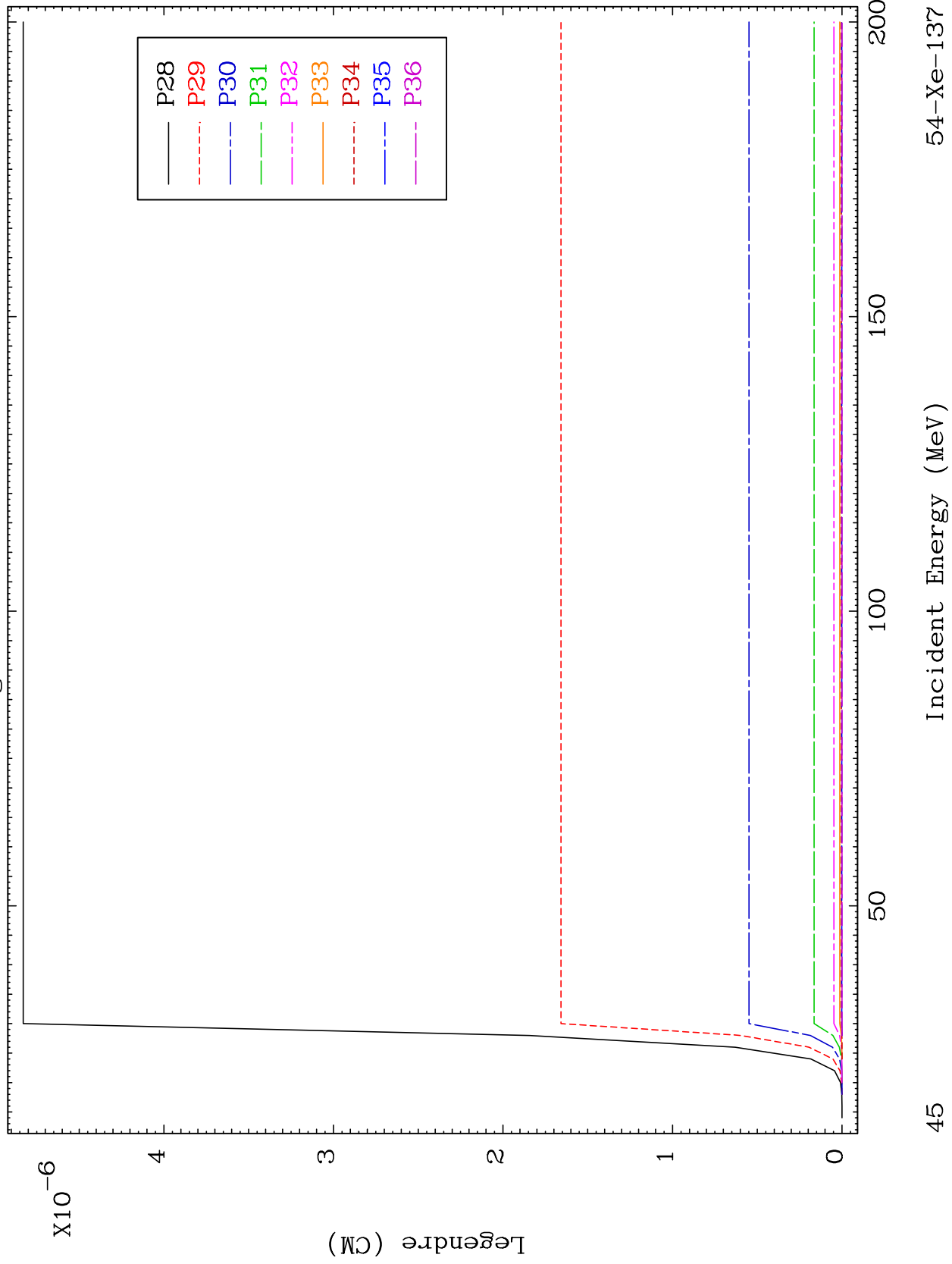
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



54-Xe-137

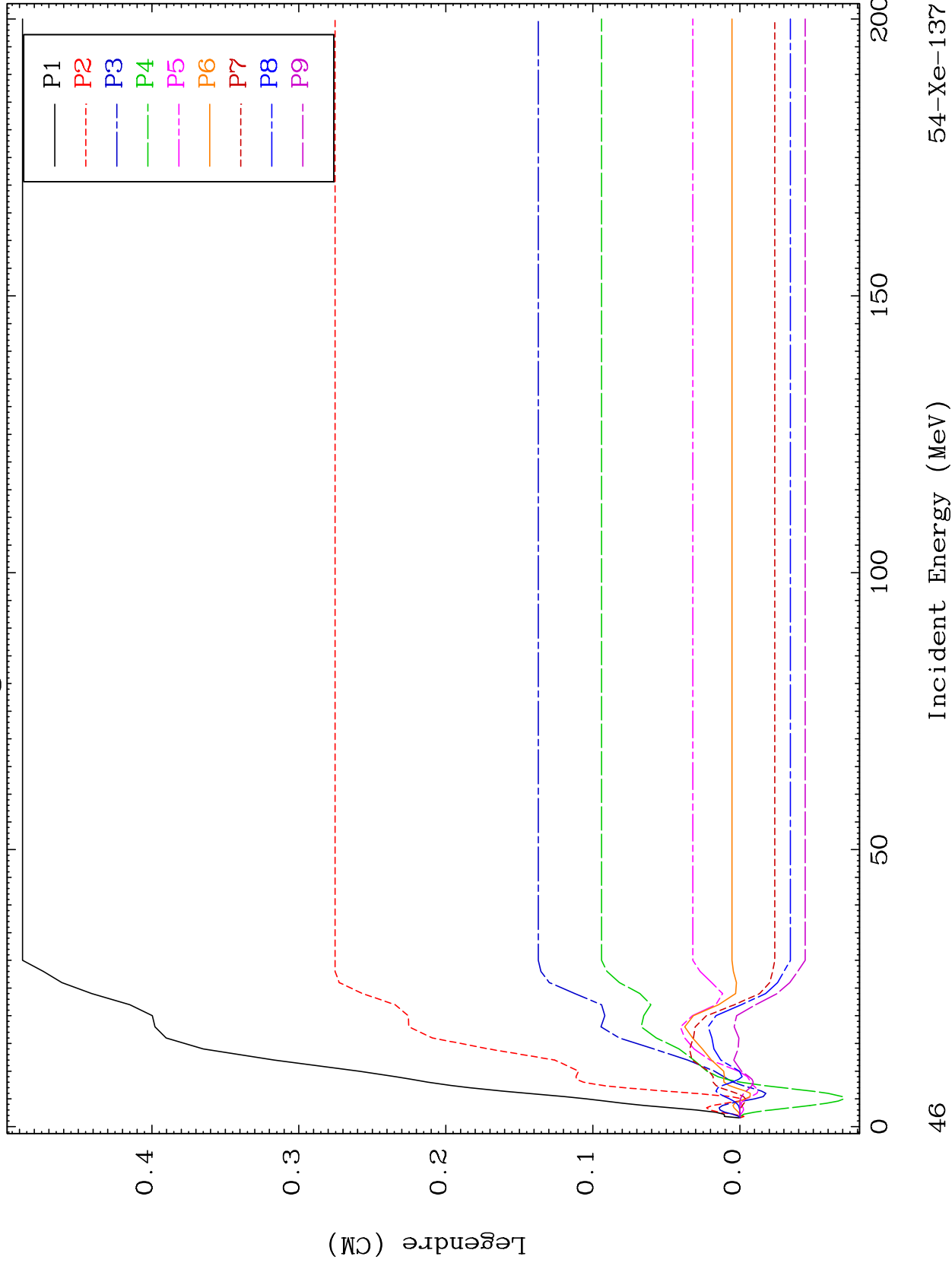
Incident Energy (MeV)

45

MAT 5464

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

54-Xe-137



46

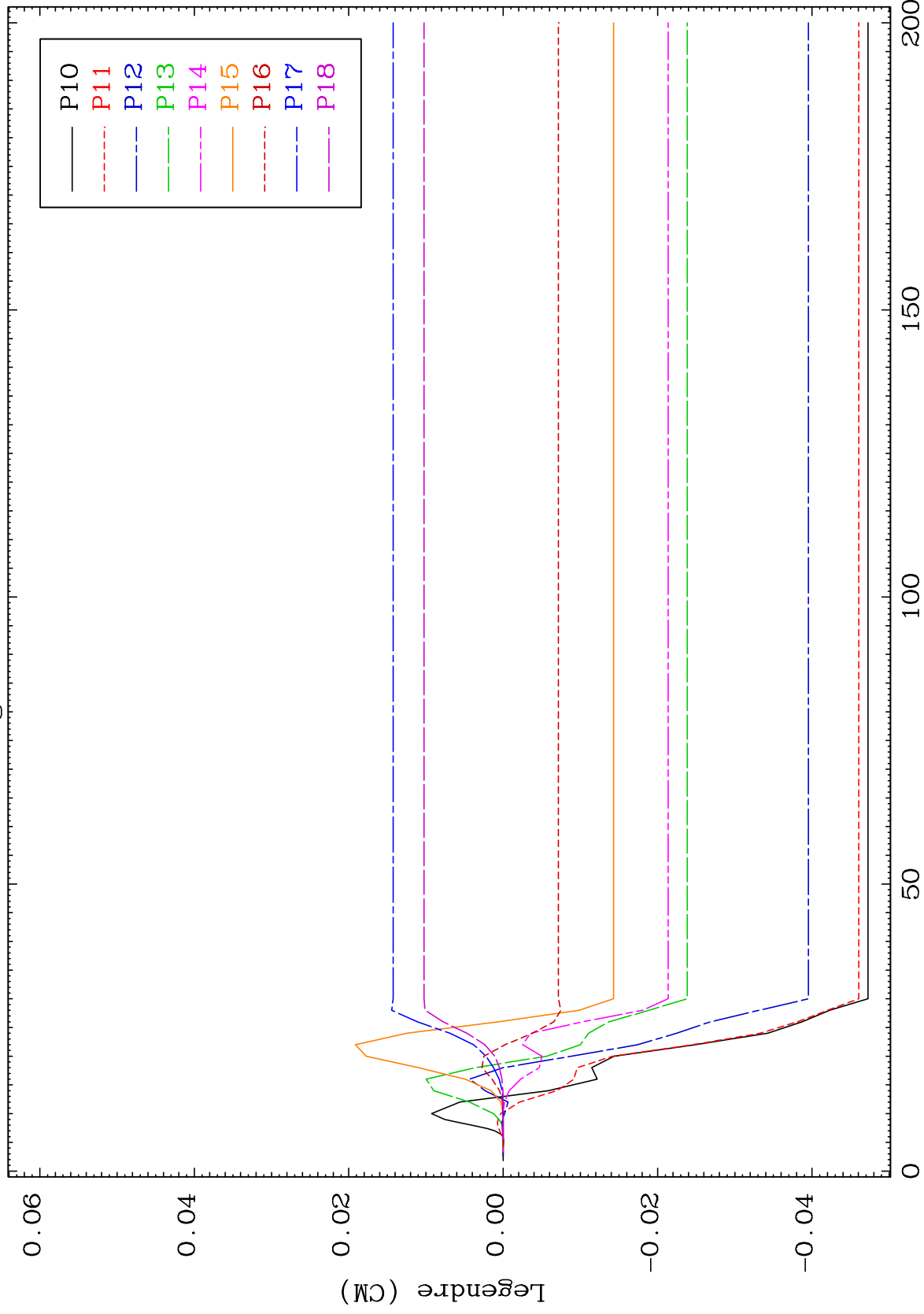
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



47

Incident Energy (MeV)

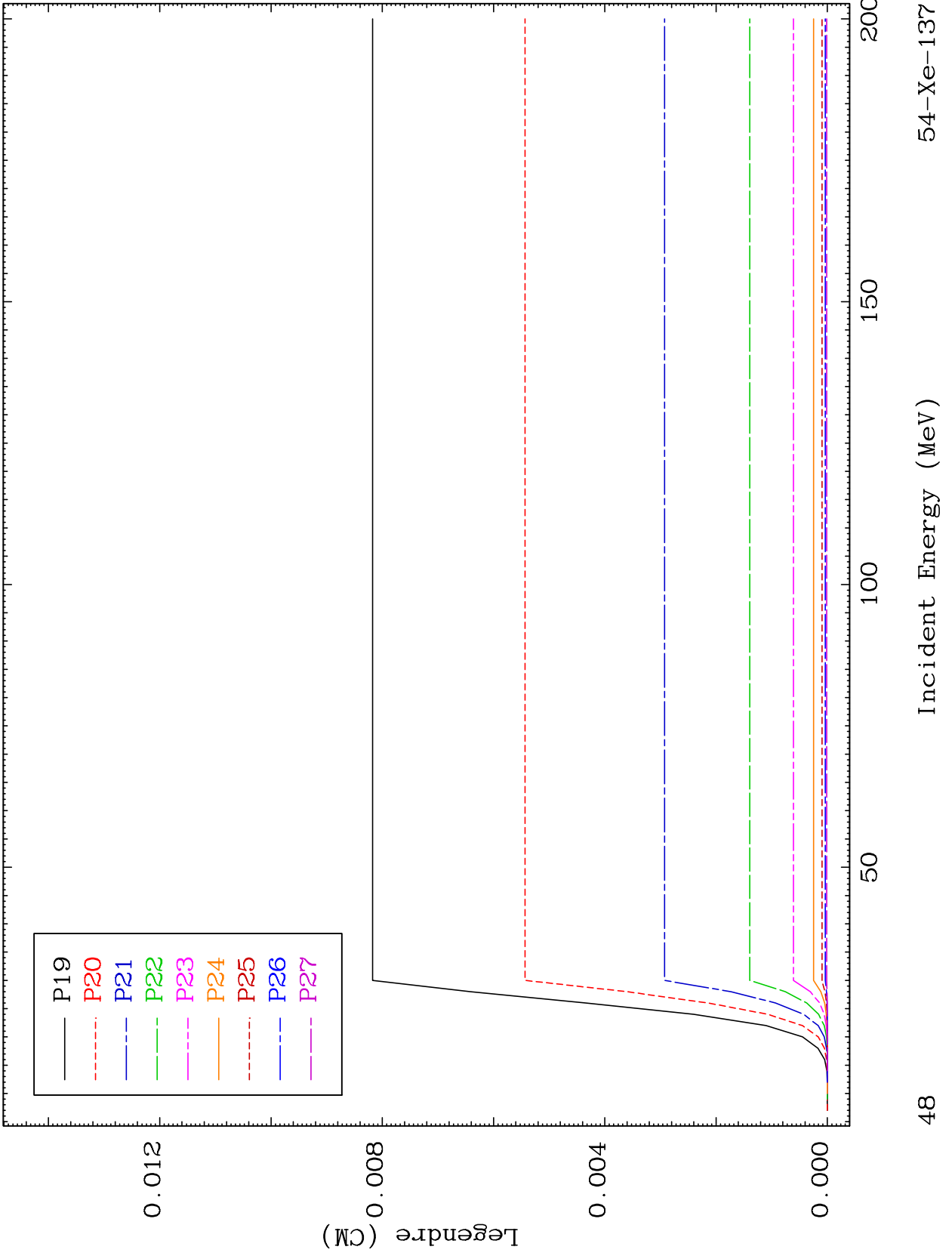
54-Xe-137



MAT 5464

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

54-Xe-137



54-Xe-137

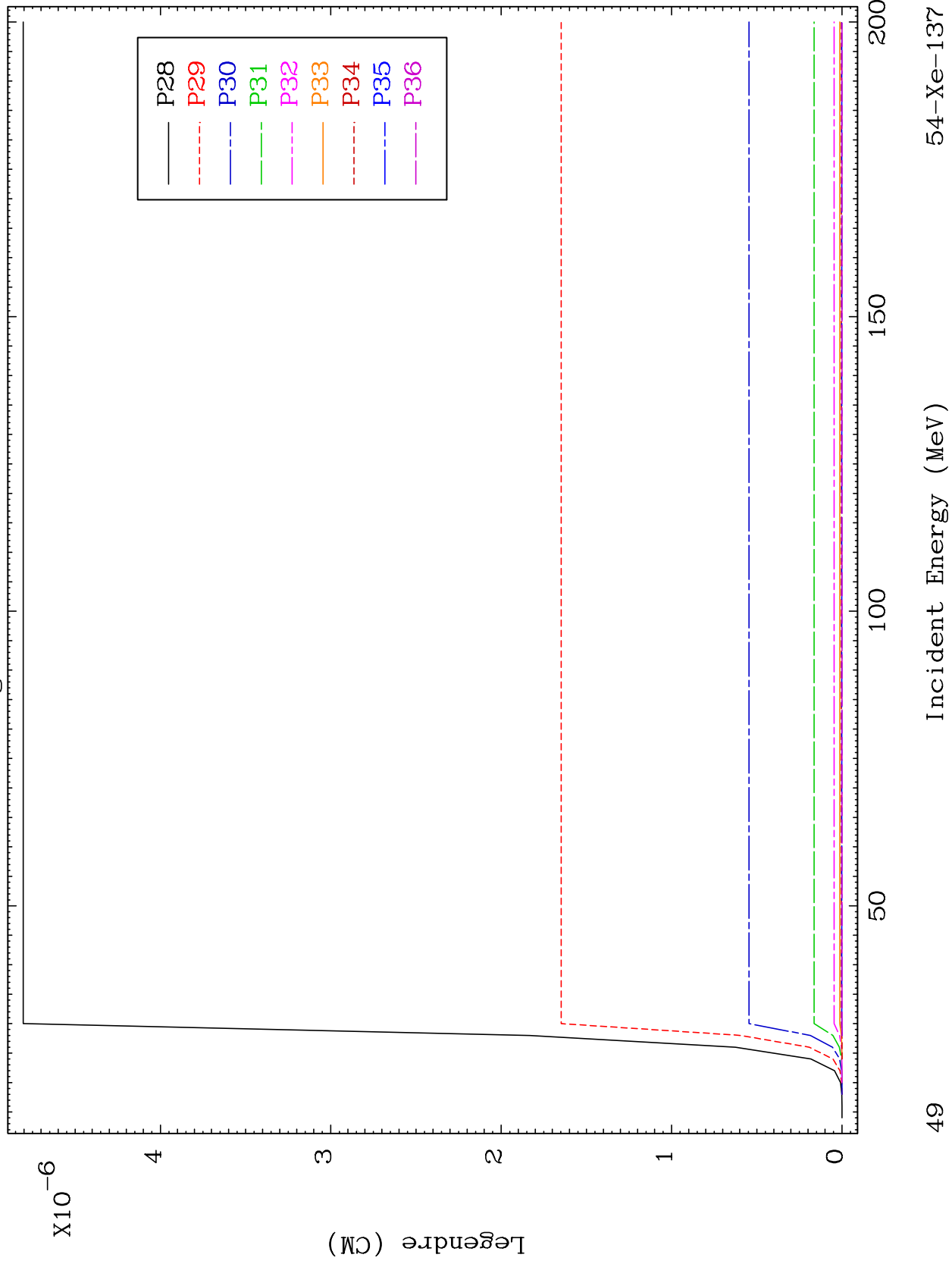
Incident Energy (MeV)

48

MAT 5464

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

54-Xe-137



49

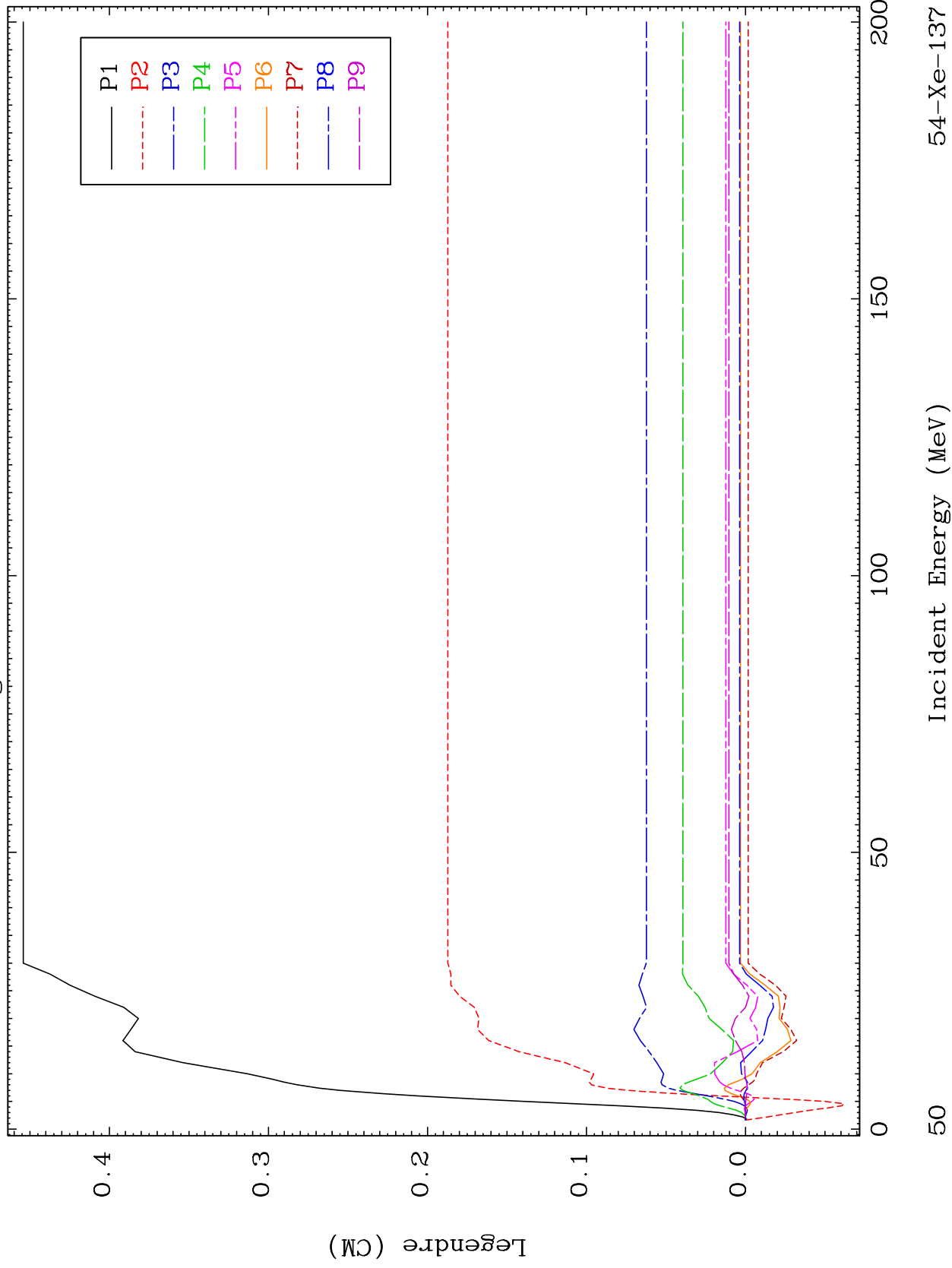
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



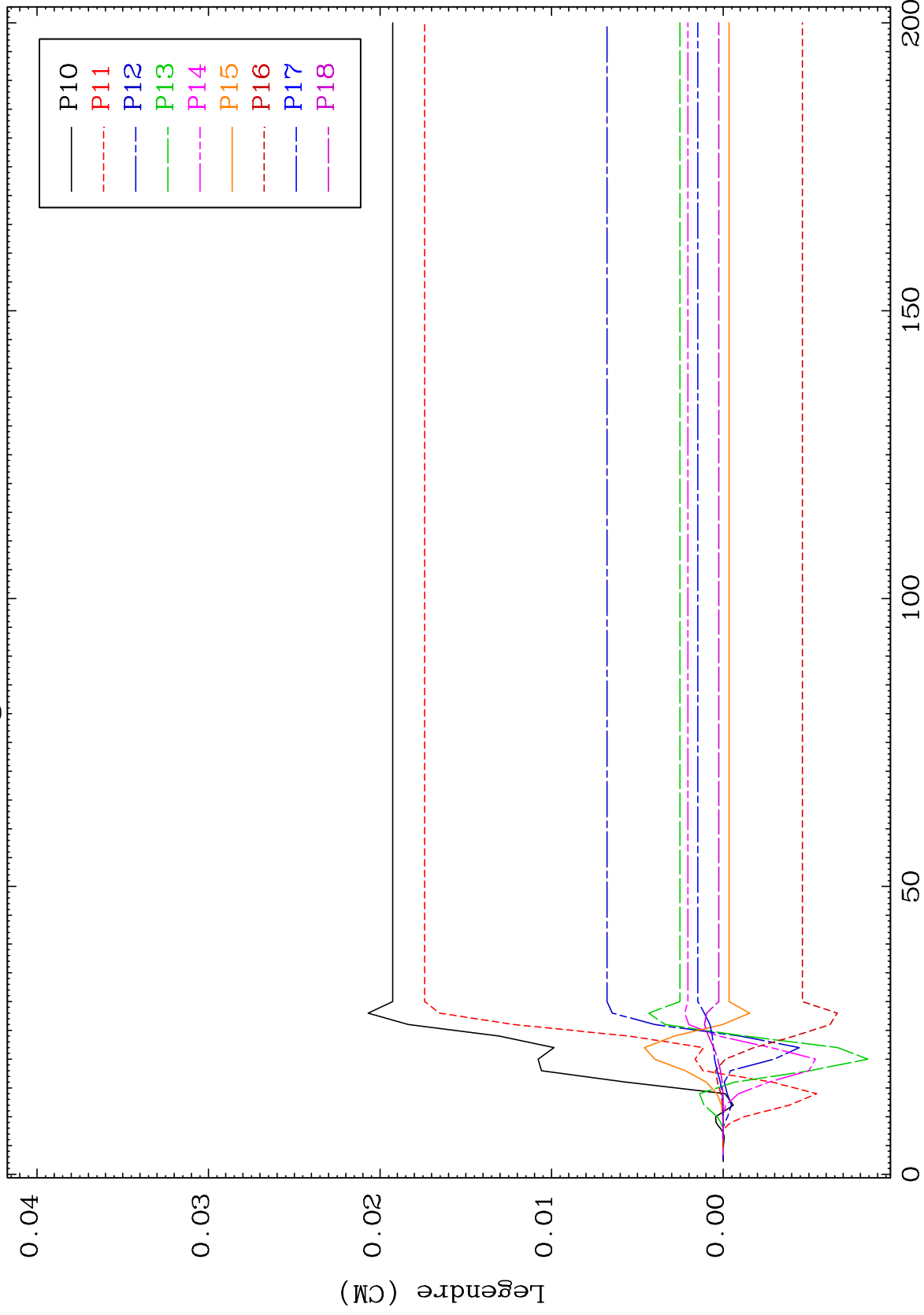
54-Xe-137

Incident Energy (MeV)

MAT 5464

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

54-Xe-137



51

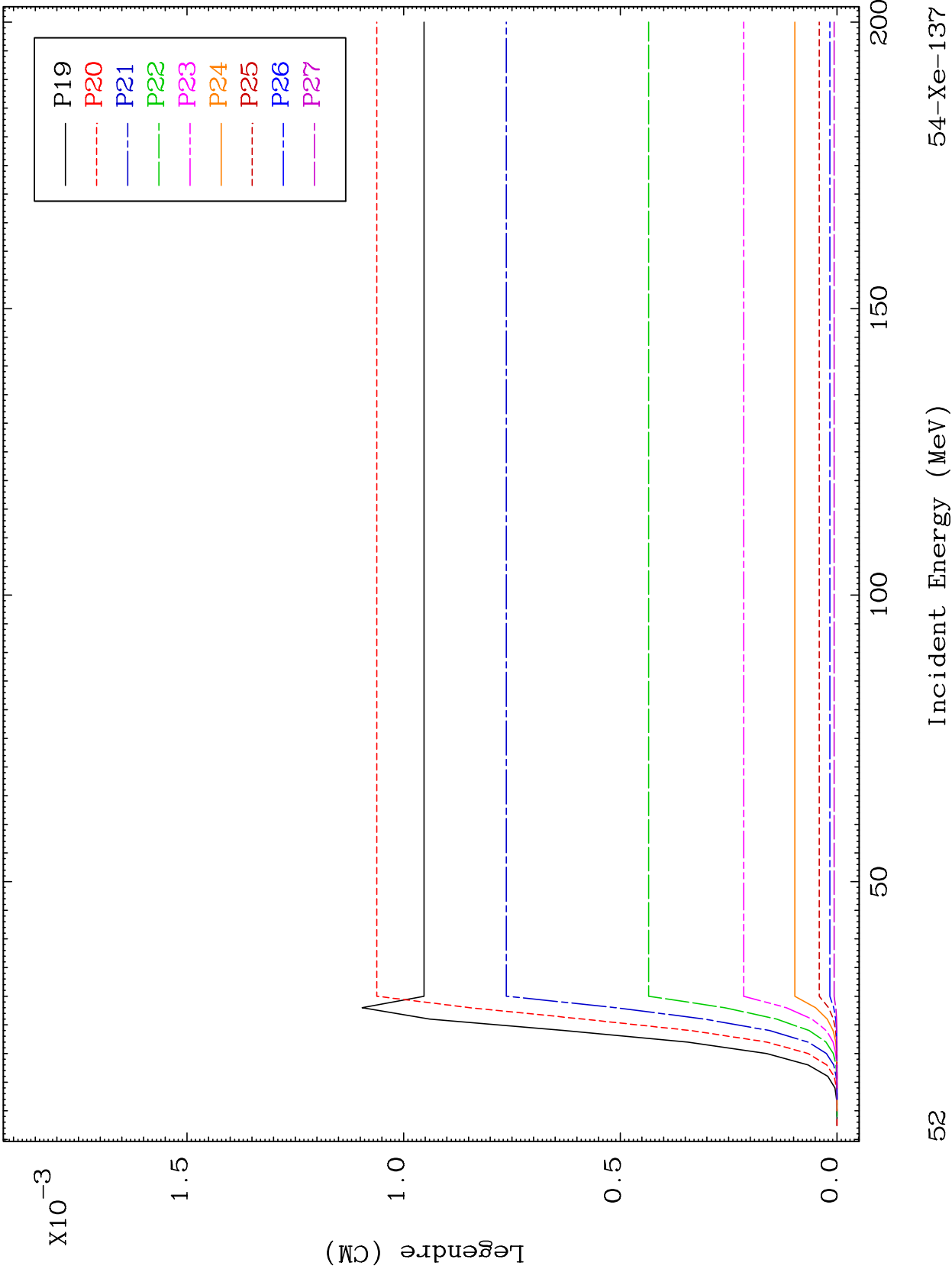
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



52

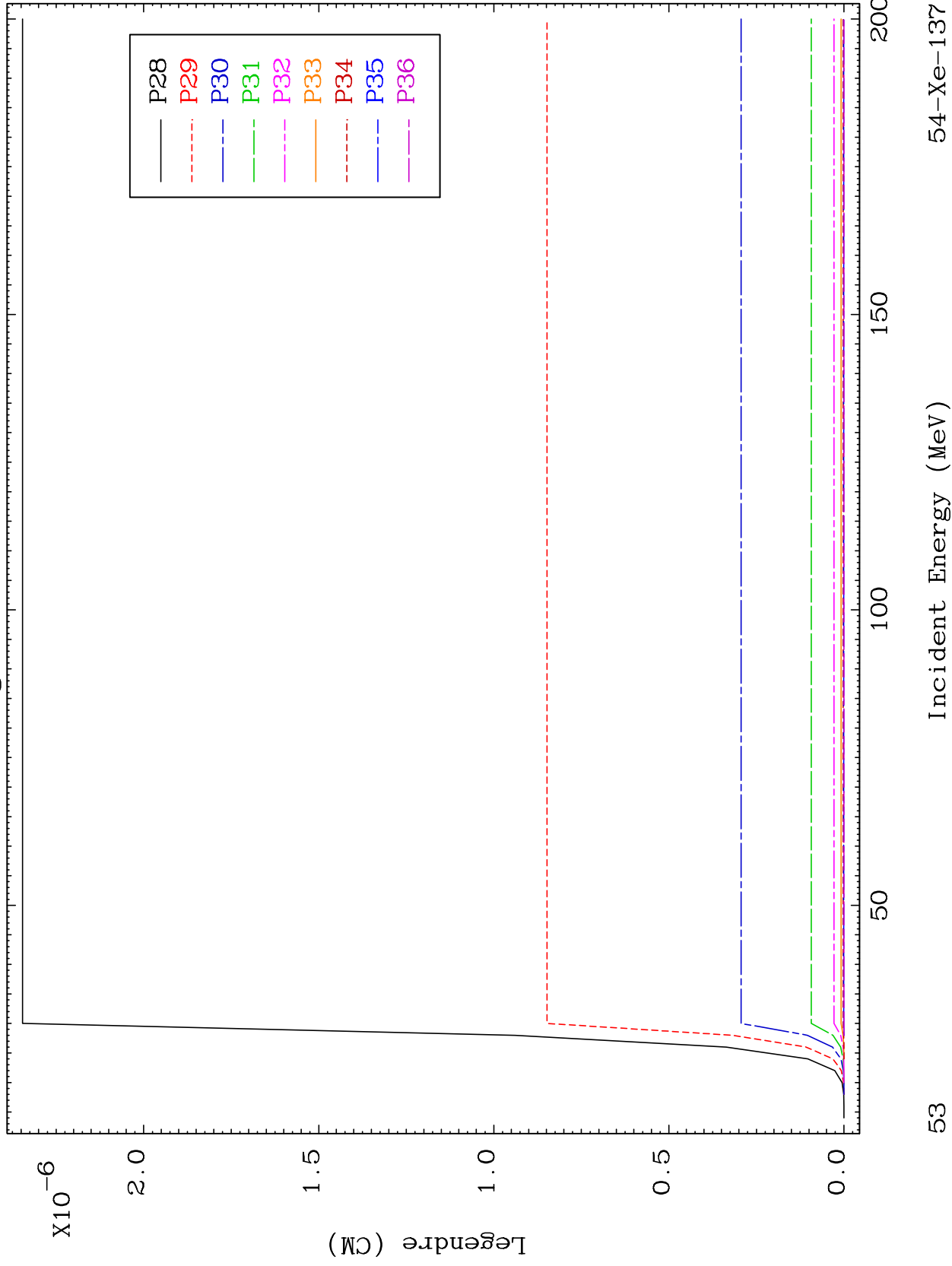
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



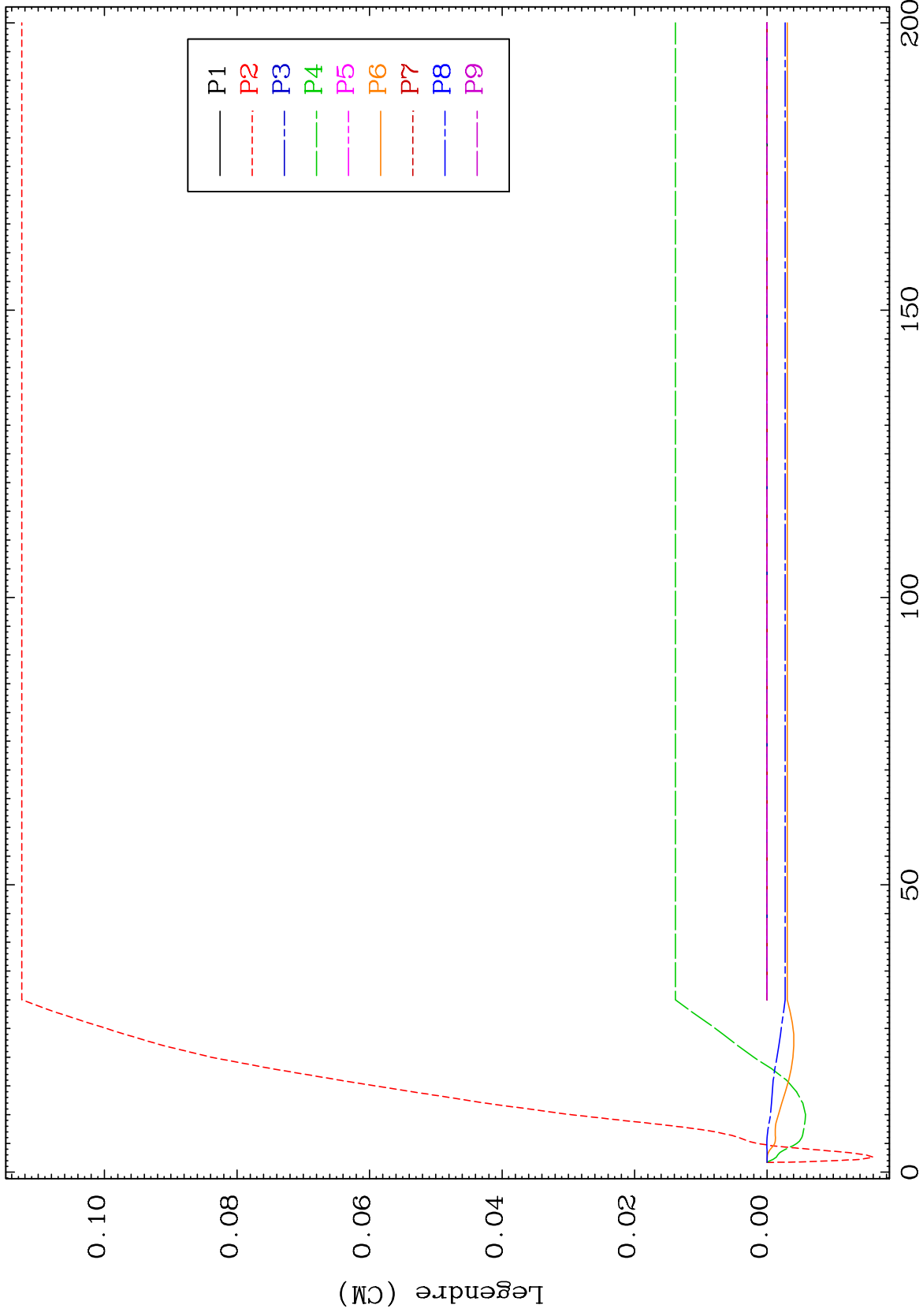
53

54-Xe-137

MAT 5464

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

54-Xe-137



54-Xe-137

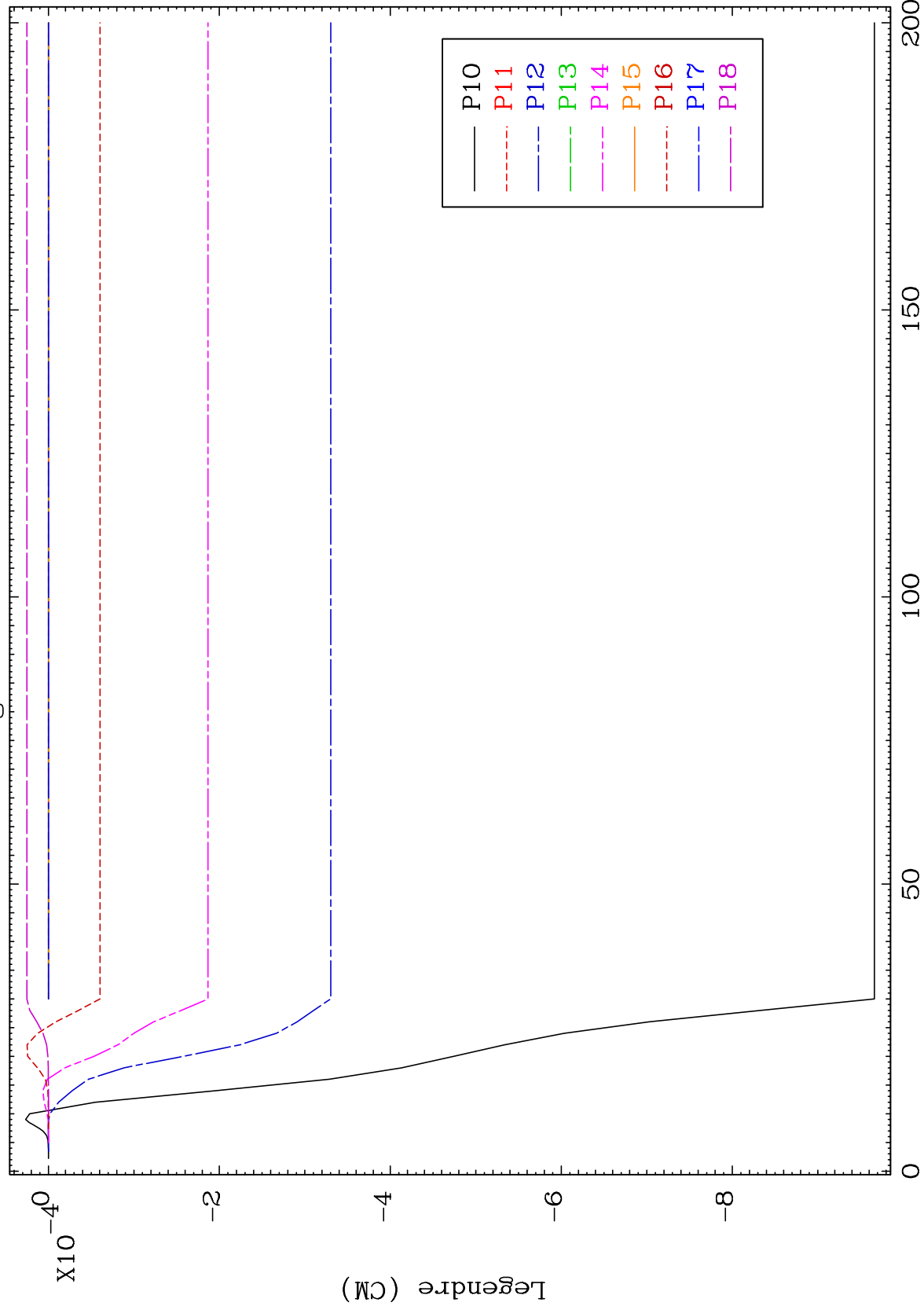
Incident Energy (MeV)

54

MAT 5464

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

54-Xe-137



55

Incident Energy (MeV)

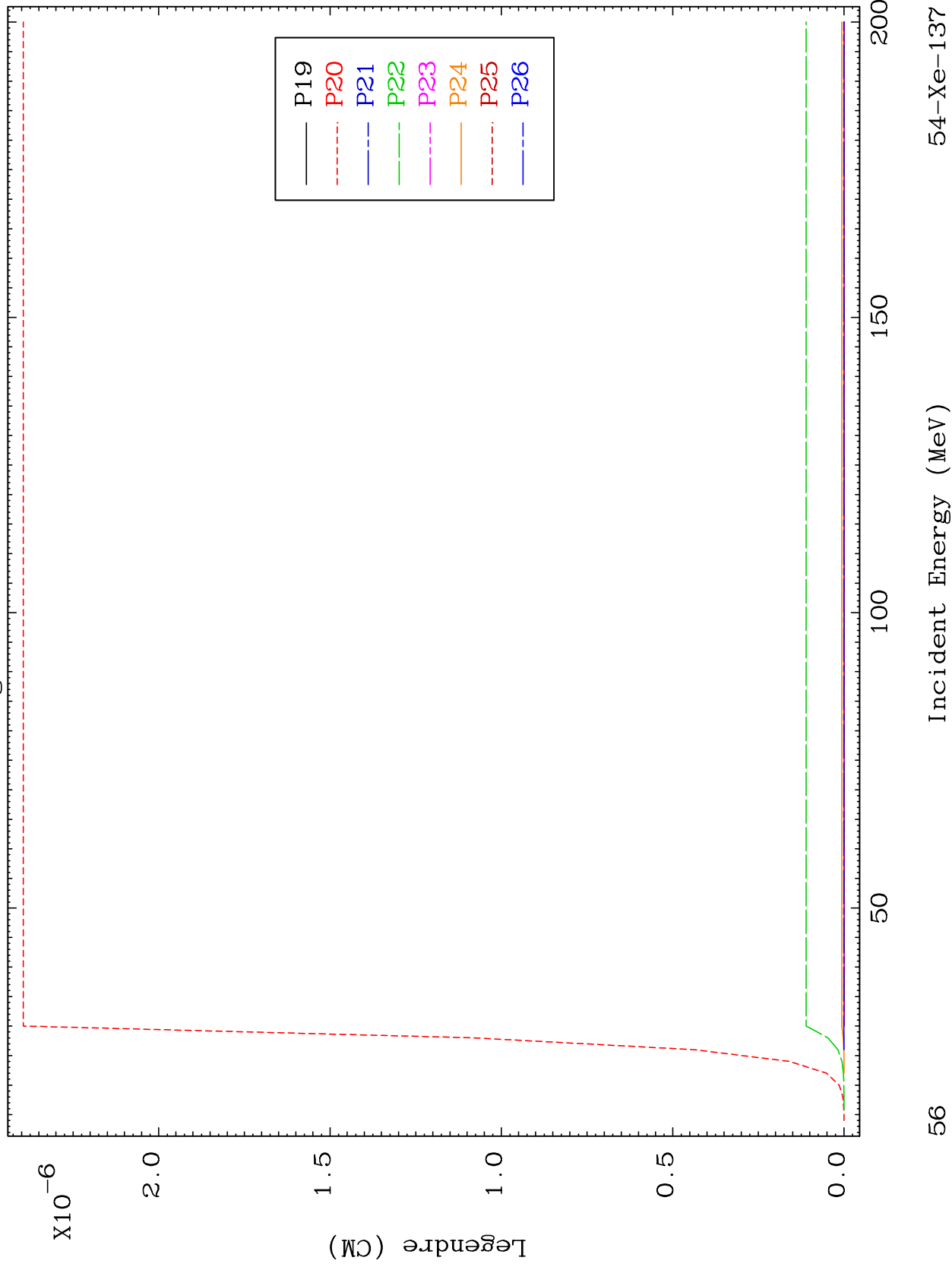
54-Xe-137



MAT 5464

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

54-Xe-137



54-Xe-137

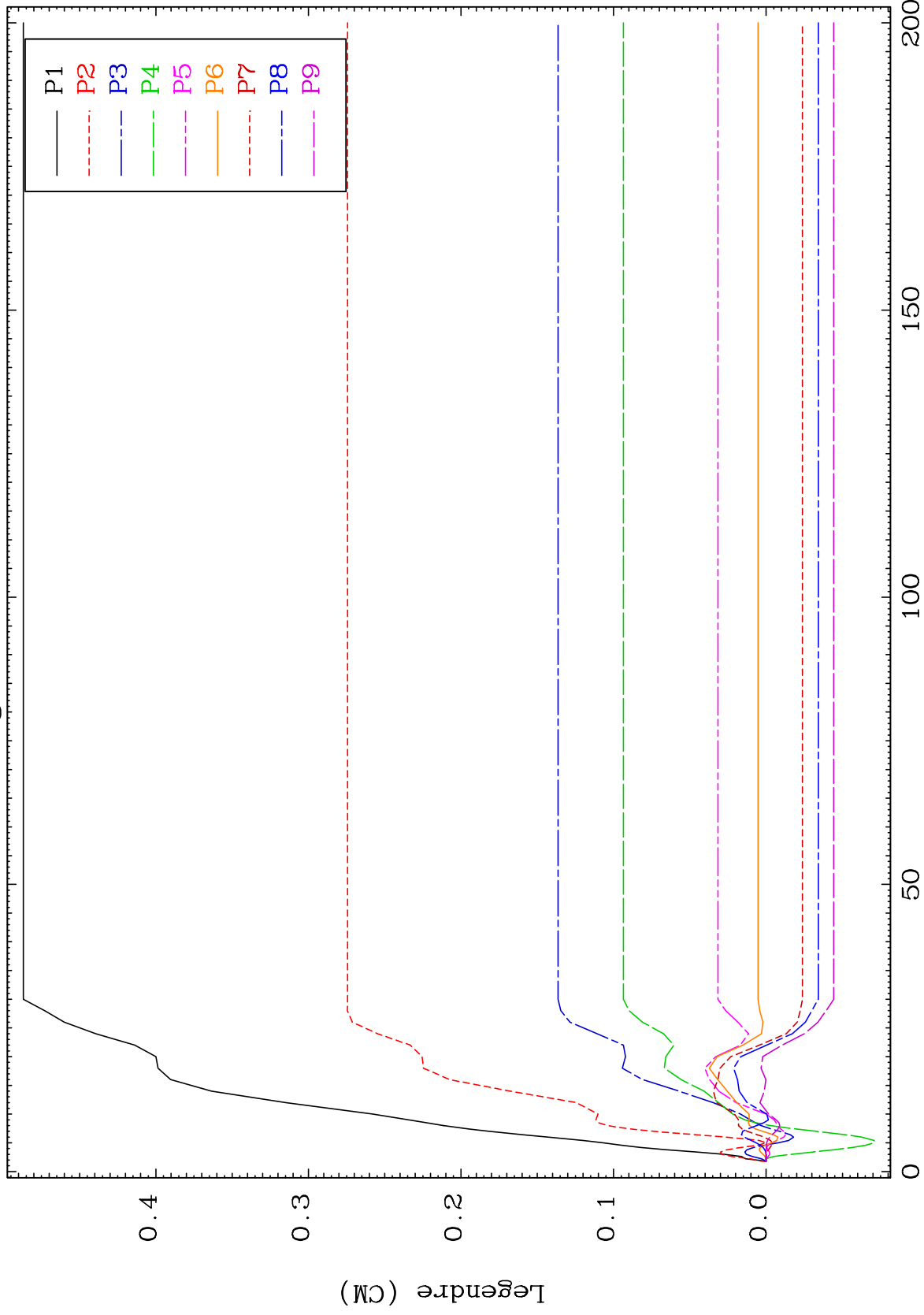
Incident Energy (MeV)

56

MAT 5464

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

54-Xe-137



54-Xe-137

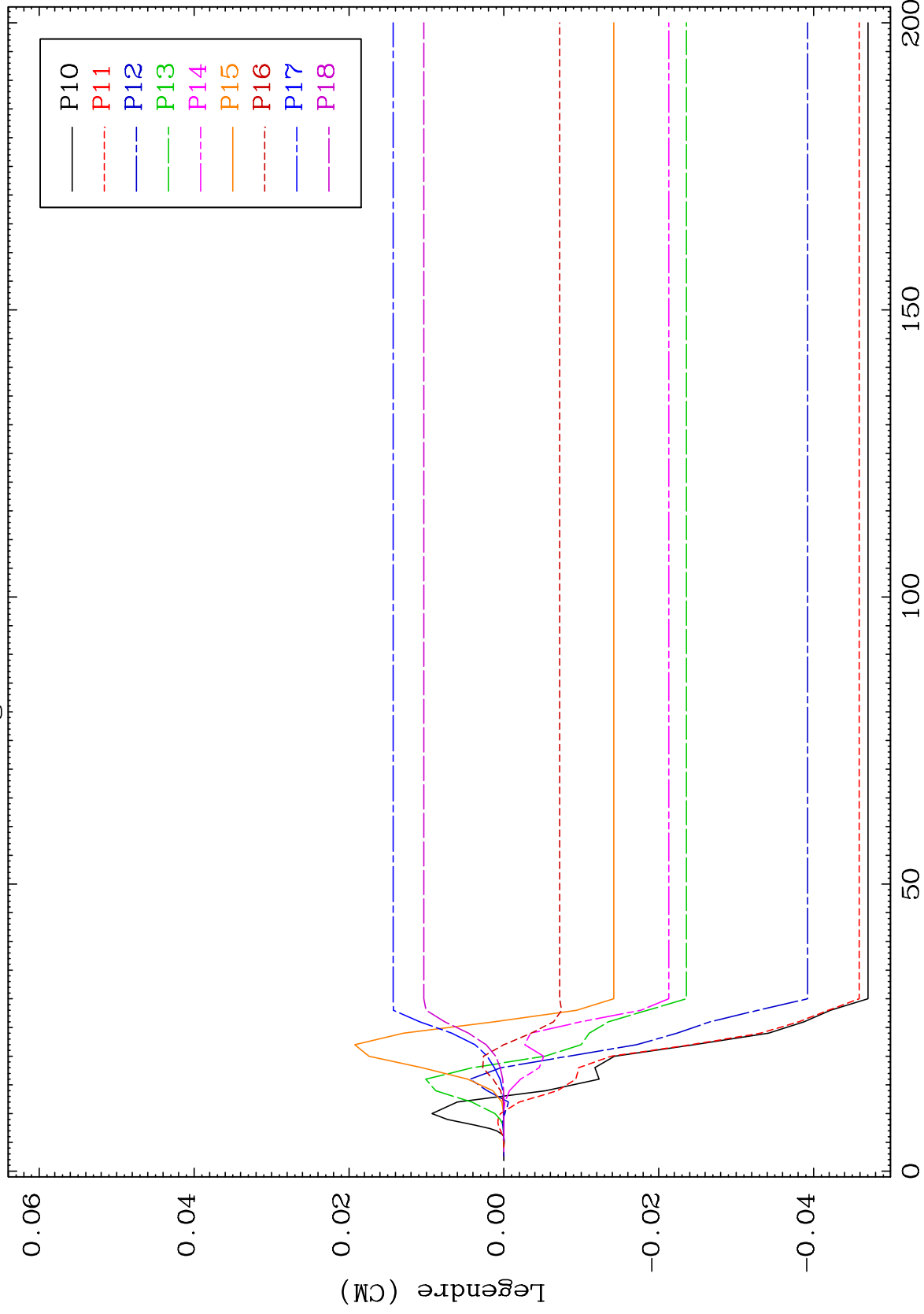
Incident Energy (MeV)

57

MAT 5464

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

54-Xe-137



58

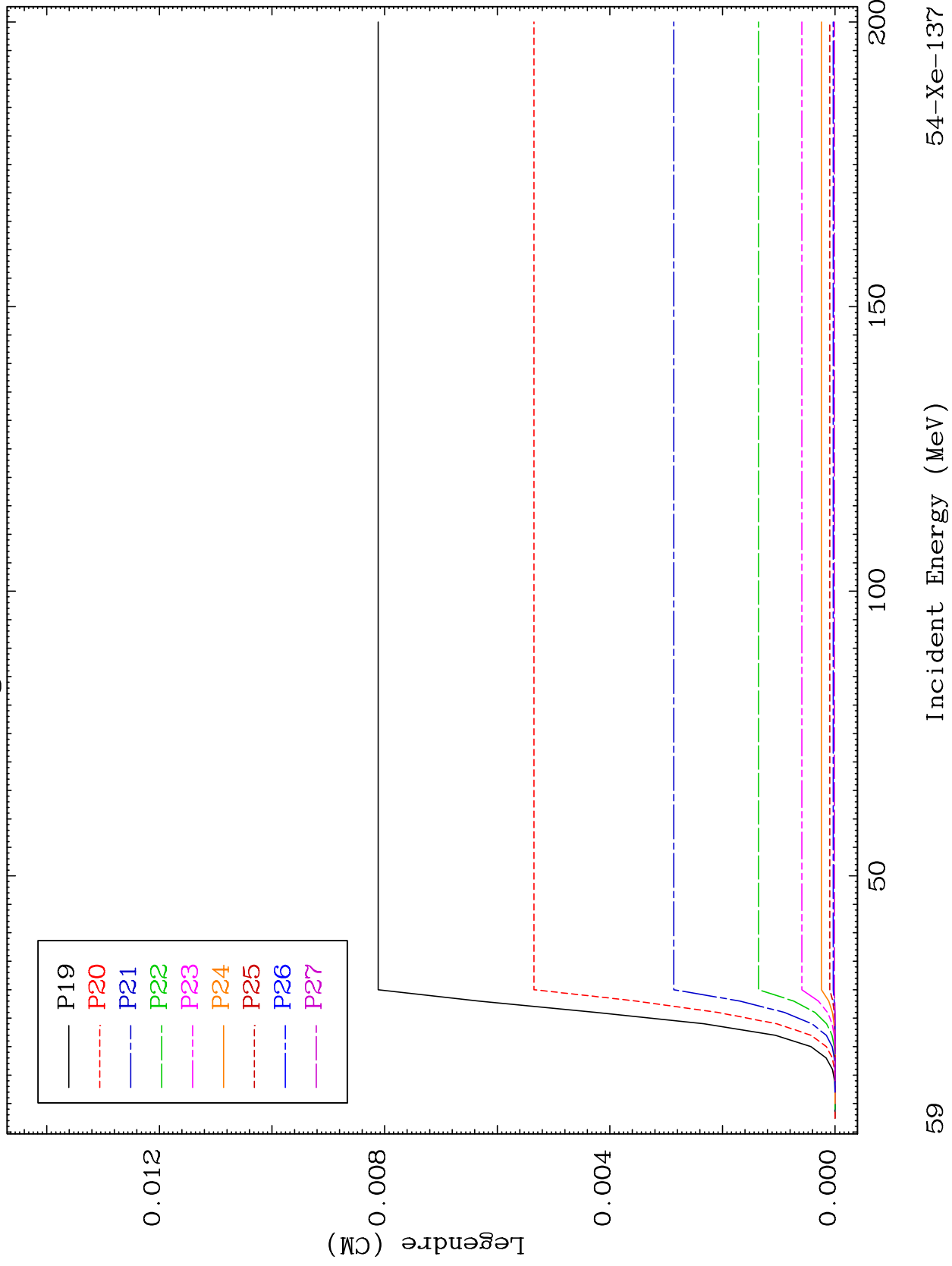
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



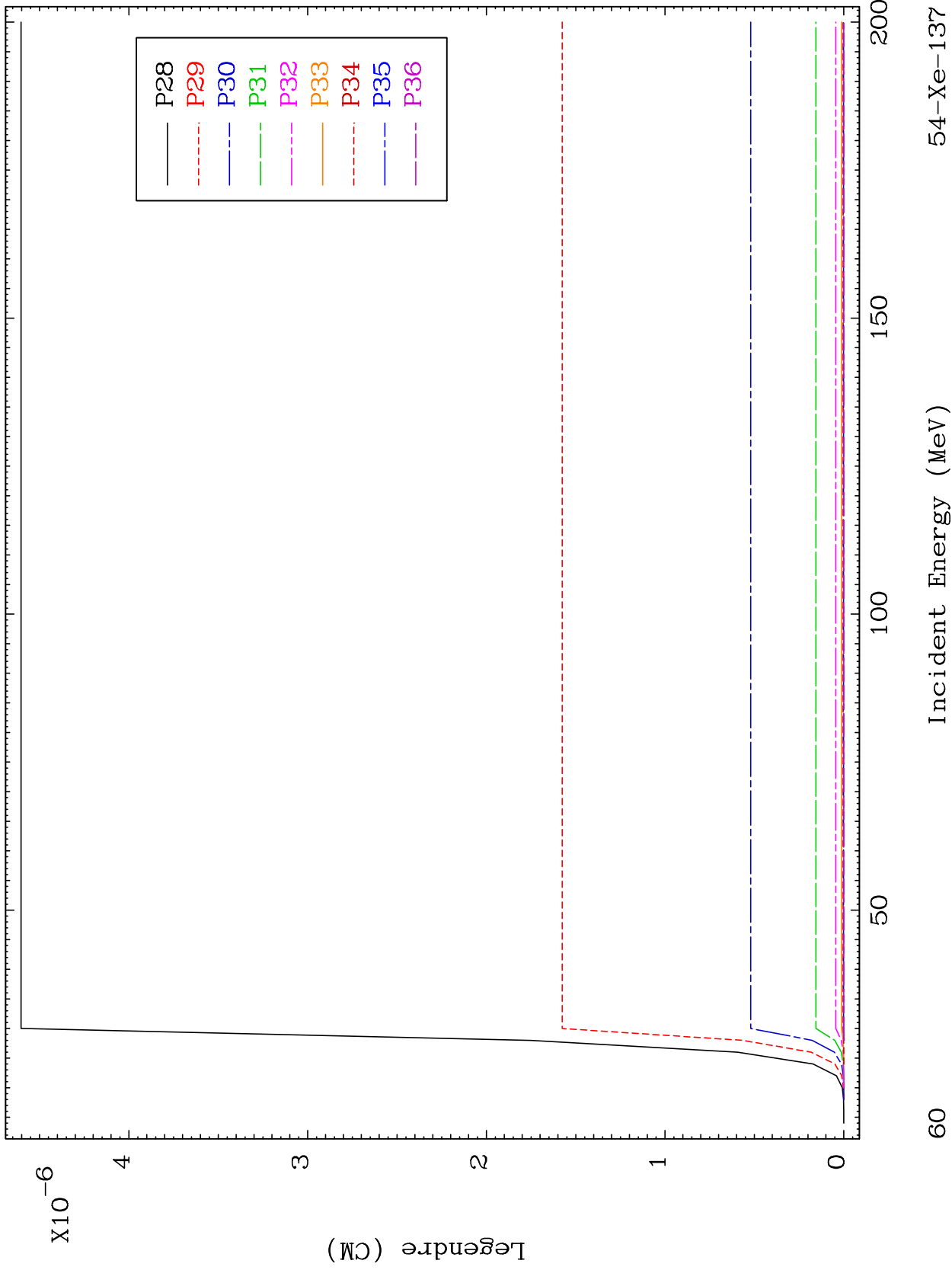
59

54-Xe-137

MAT 5464

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

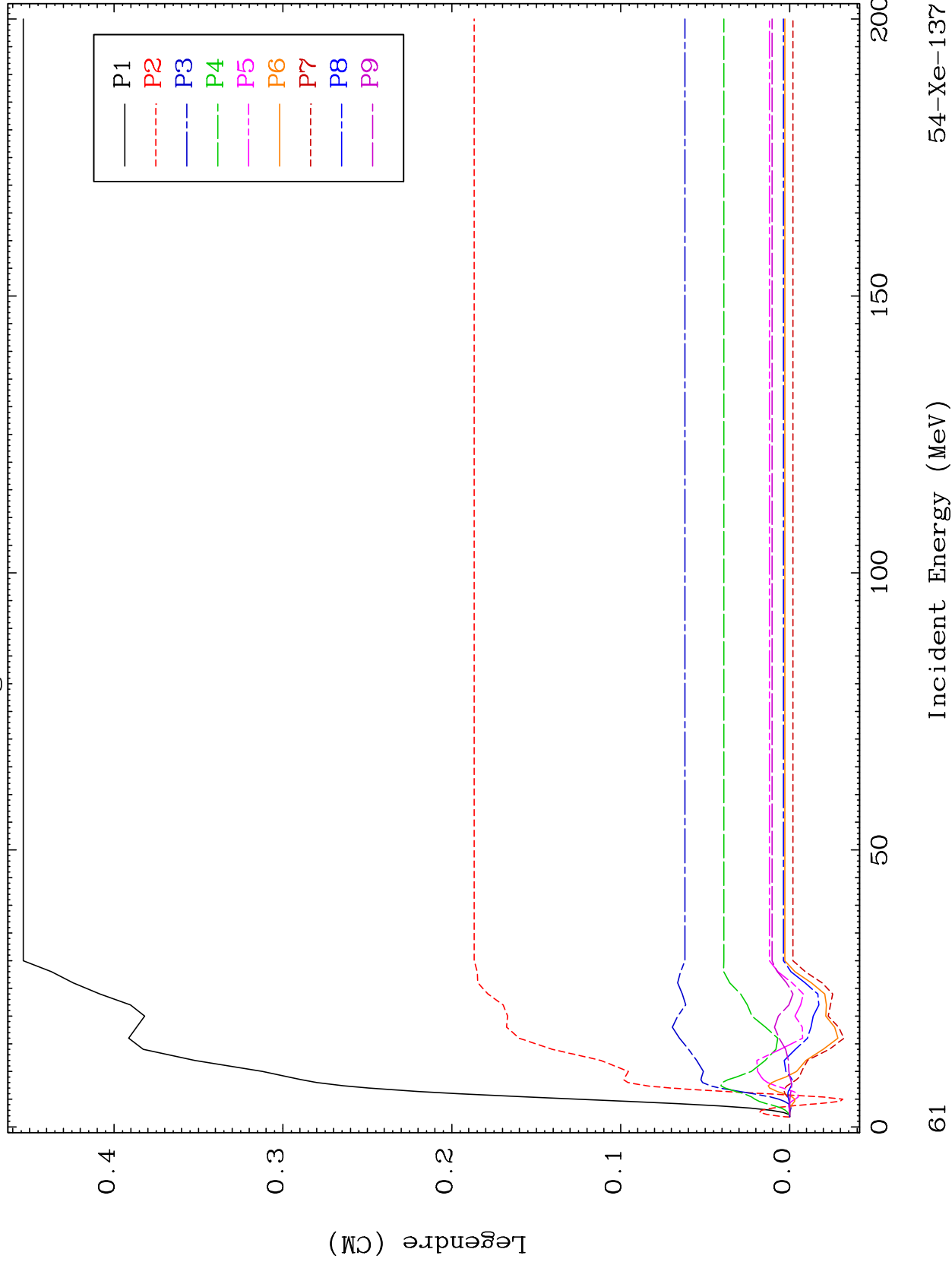
54-Xe-137



MAT 5464

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

54-Xe-137



54-Xe-137

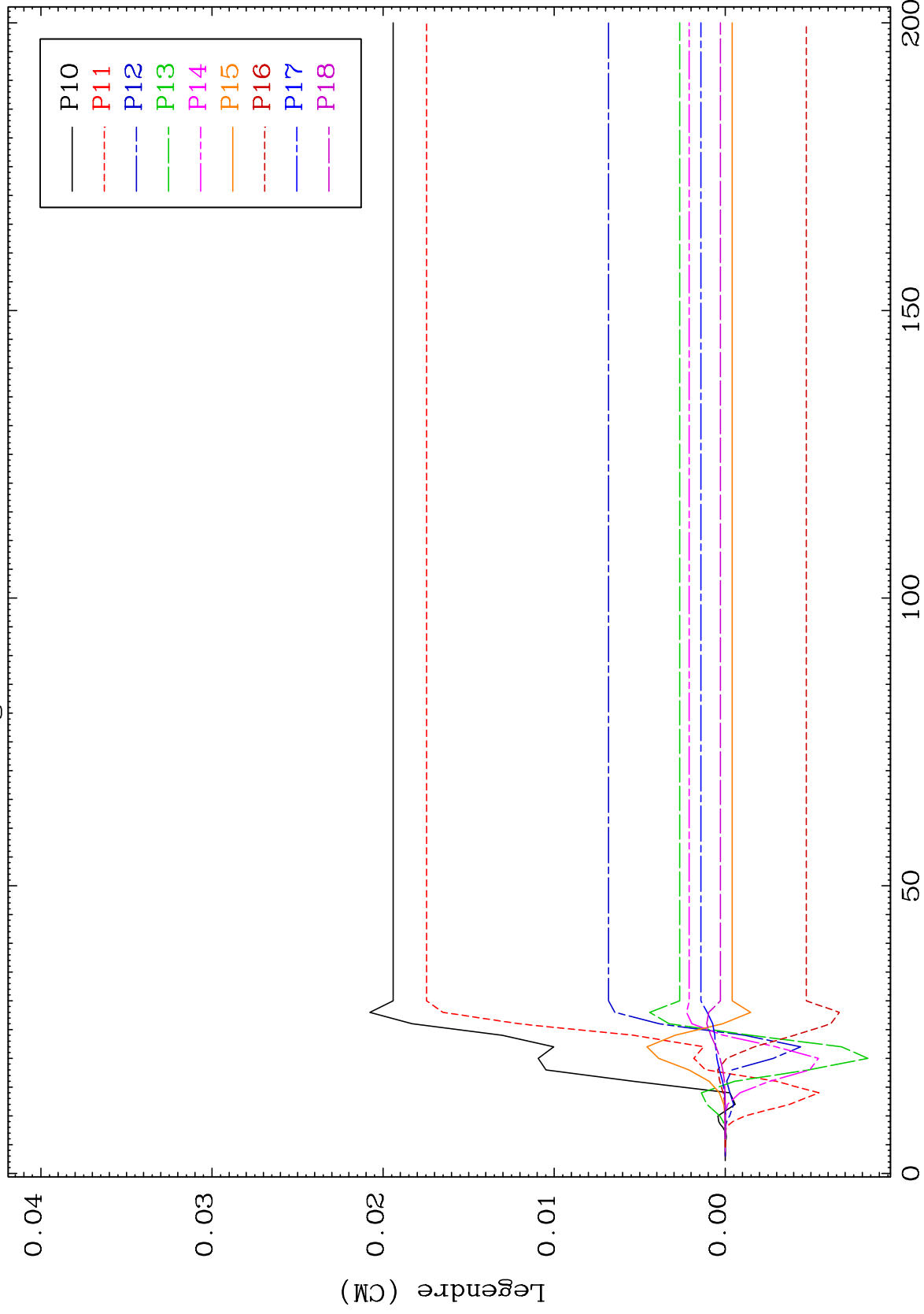
Incident Energy (MeV)

61

MAT 5464

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

54-Xe-137



62

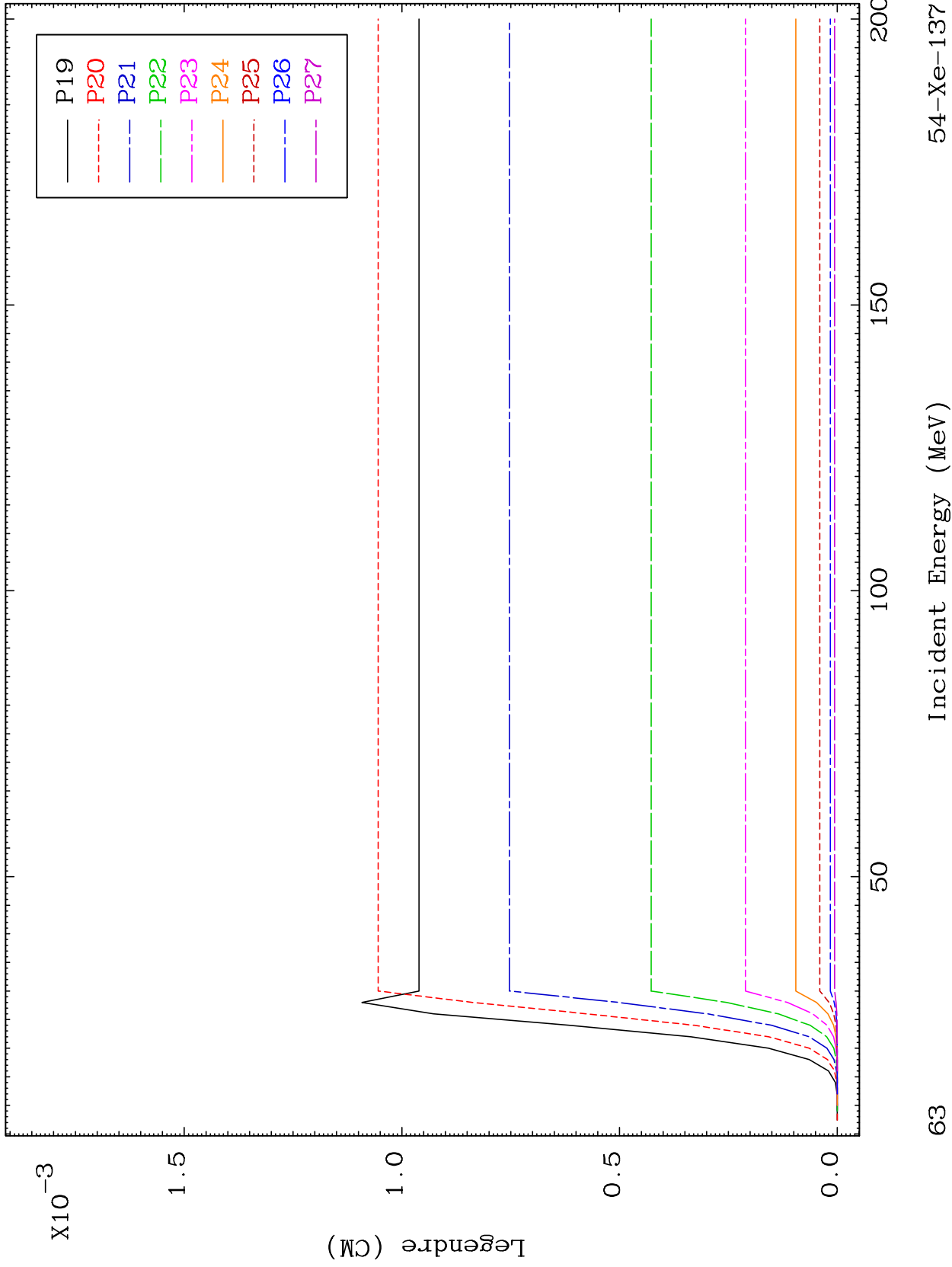
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



63

Incident Energy (MeV)

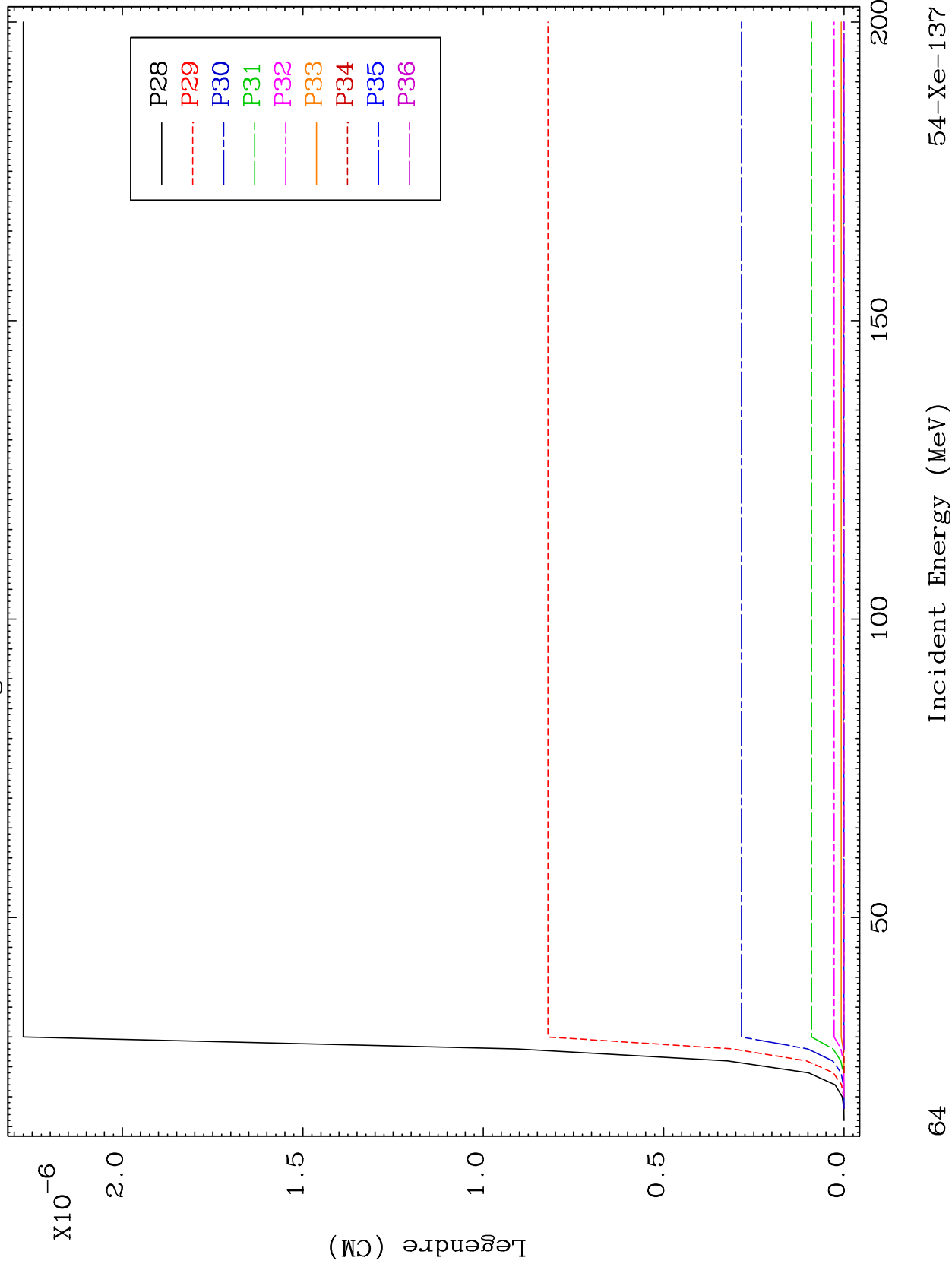
54-Xe-137



MAT 5464

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

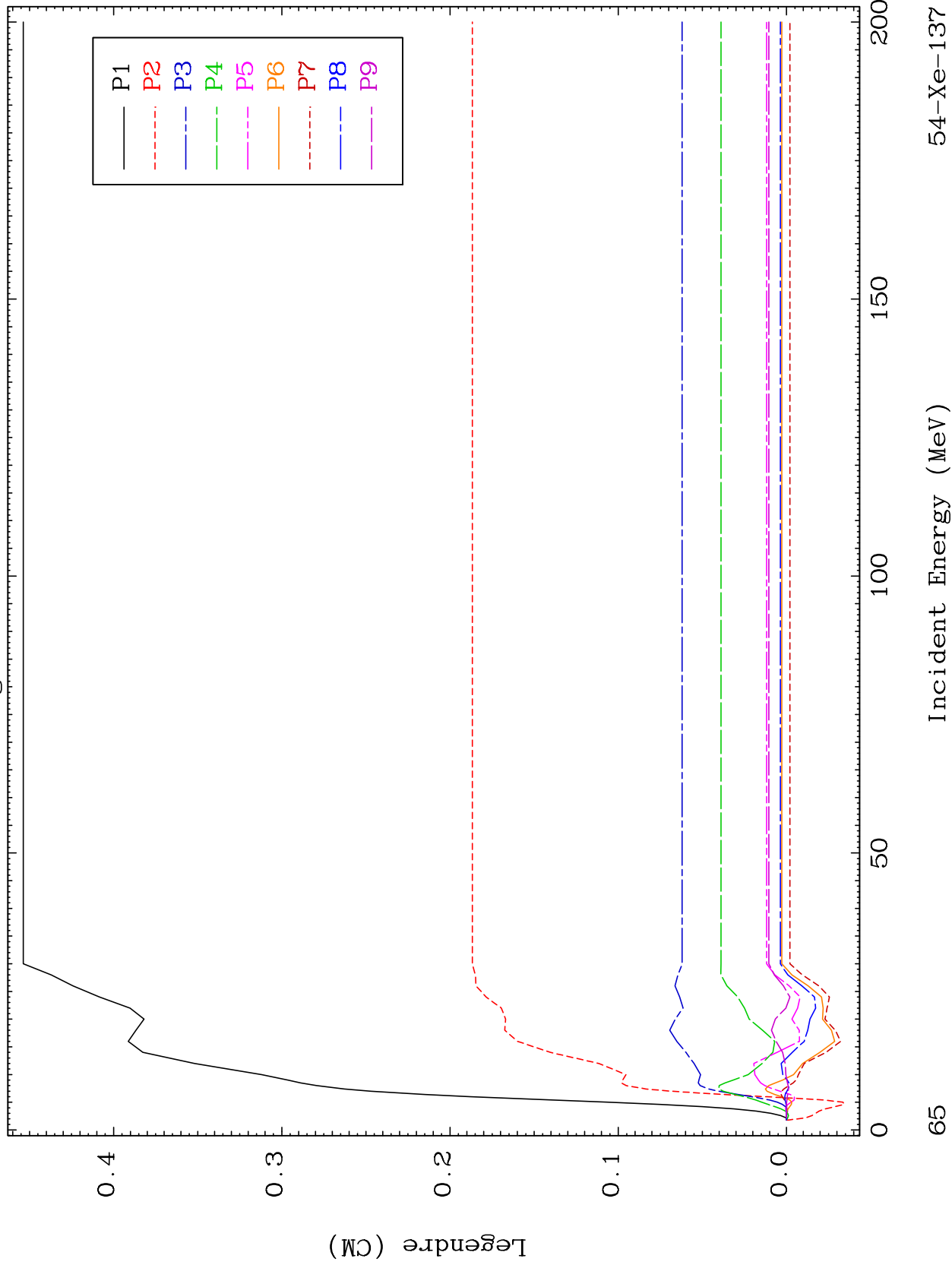
54-Xe-137



MAT 5464

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

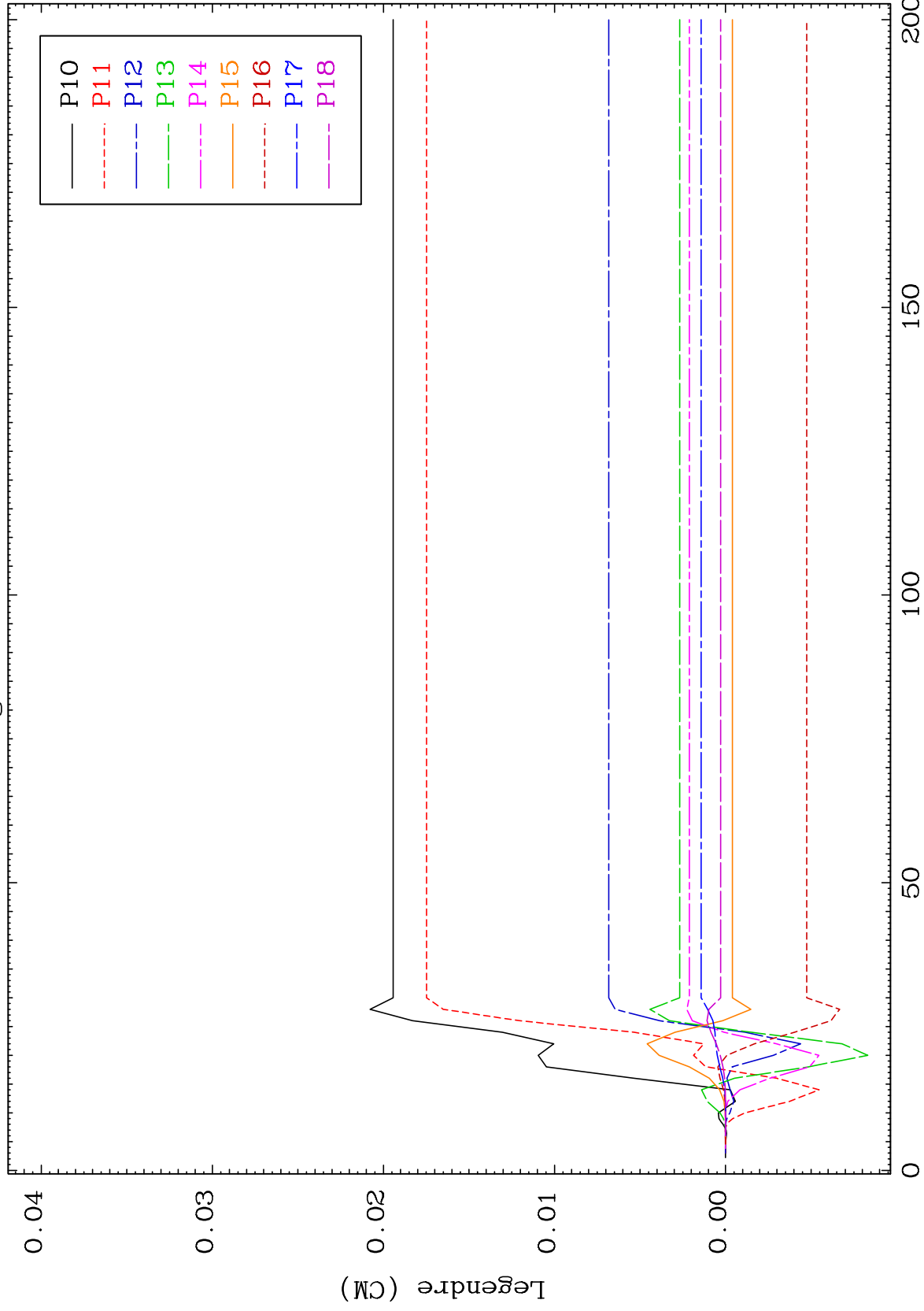
54-Xe-137



MAT 5464

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

54-Xe-137



66

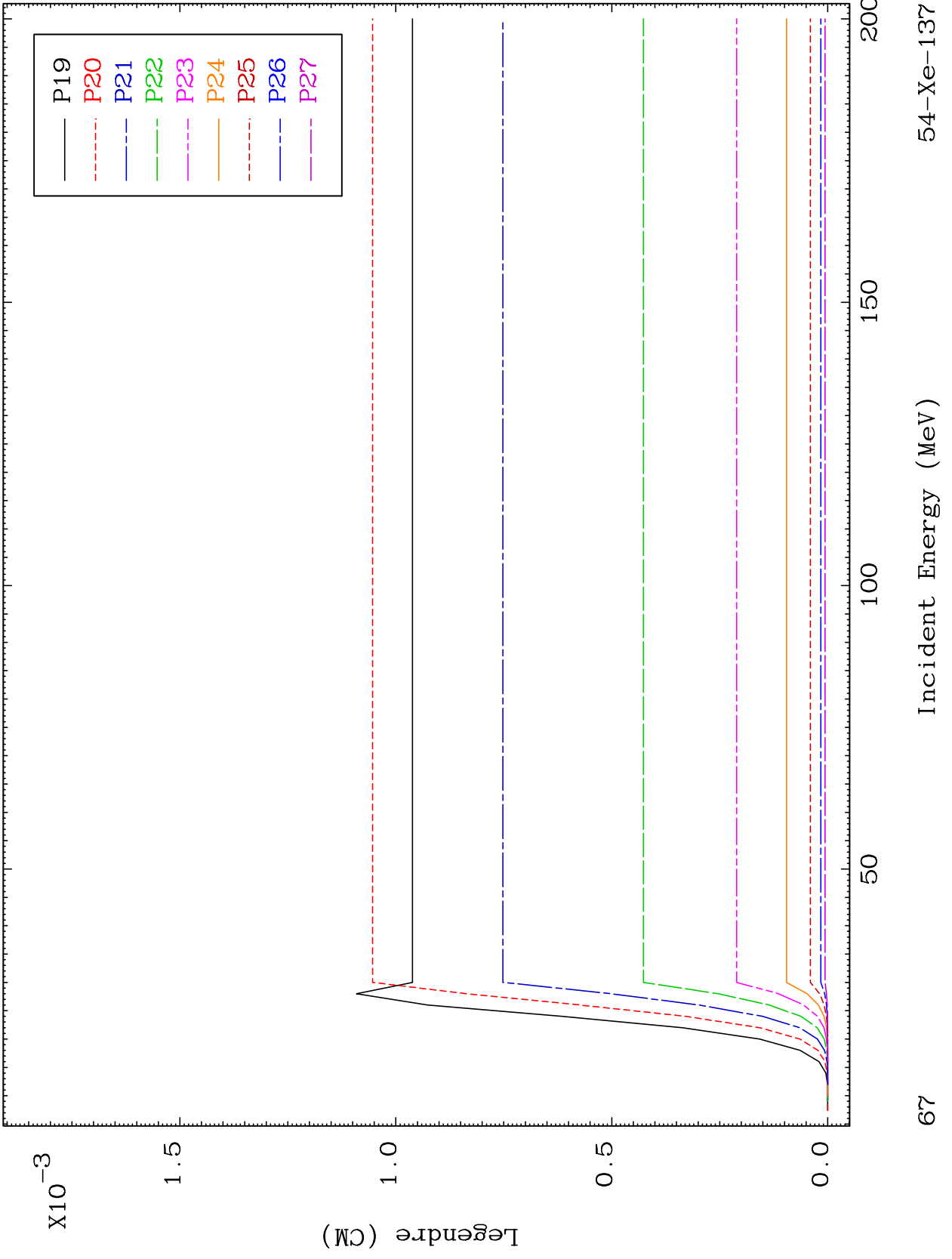
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

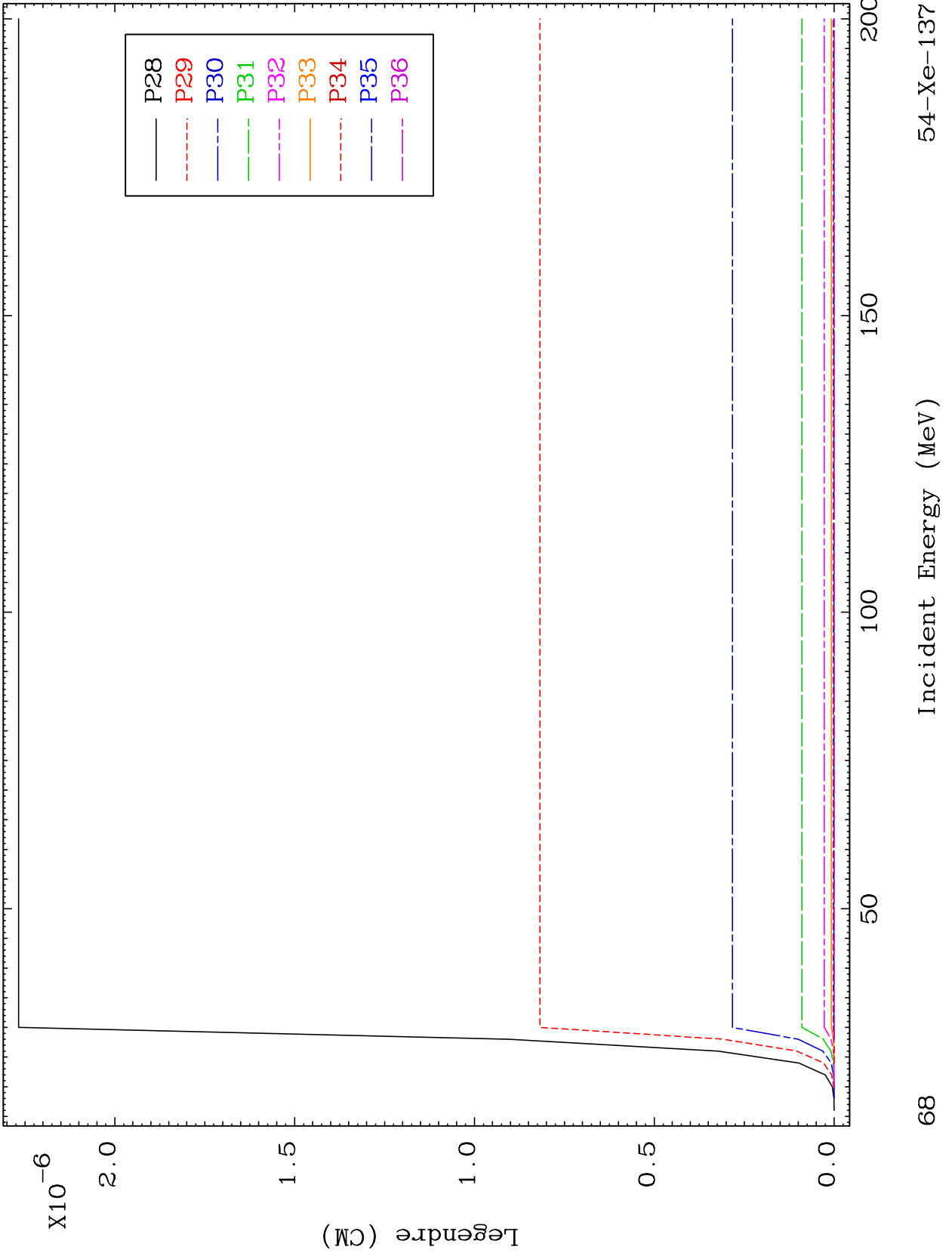
54-Xe-137



MAT 5464

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

54-Xe-137



68

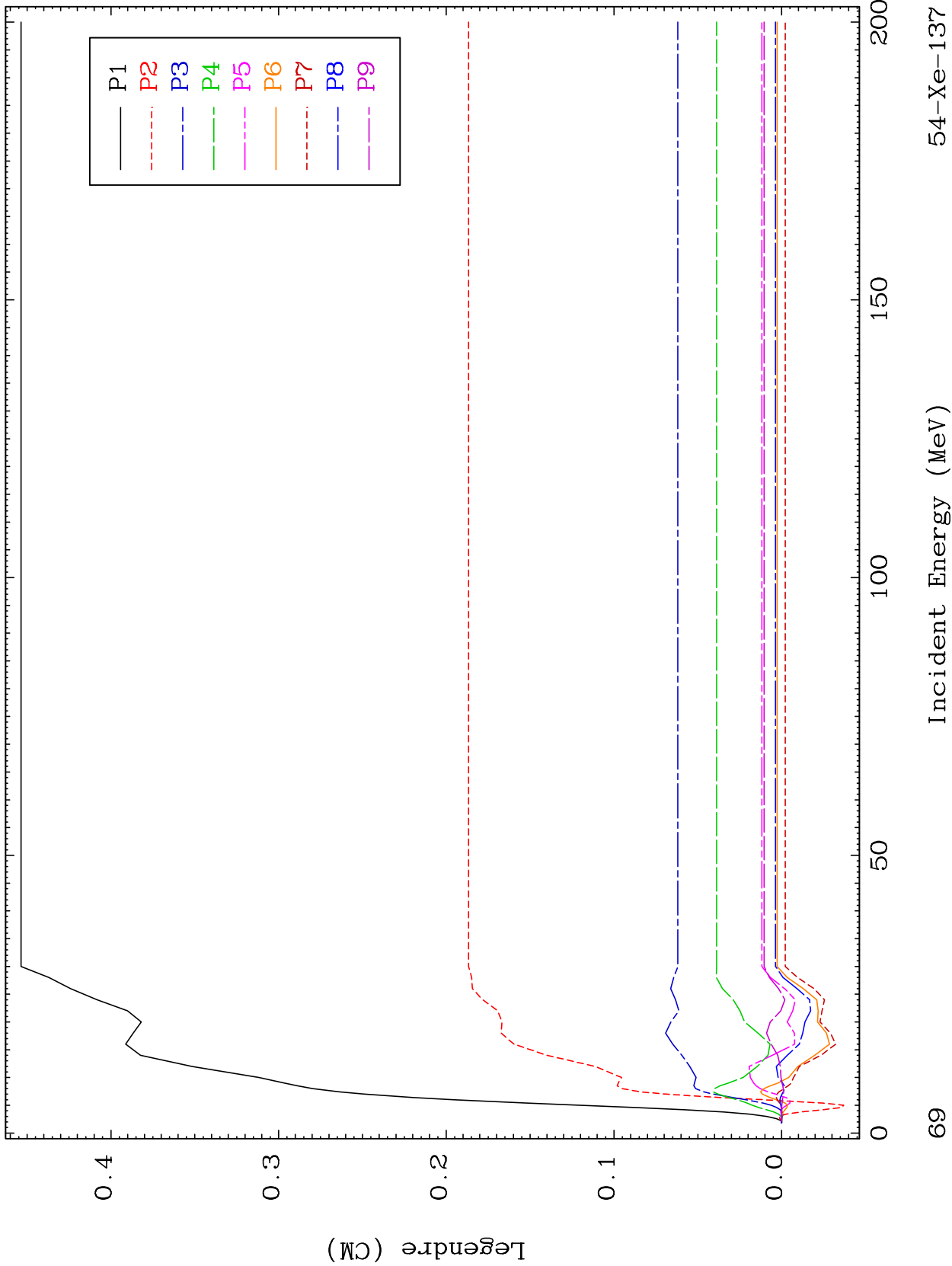
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



54-Xe-137

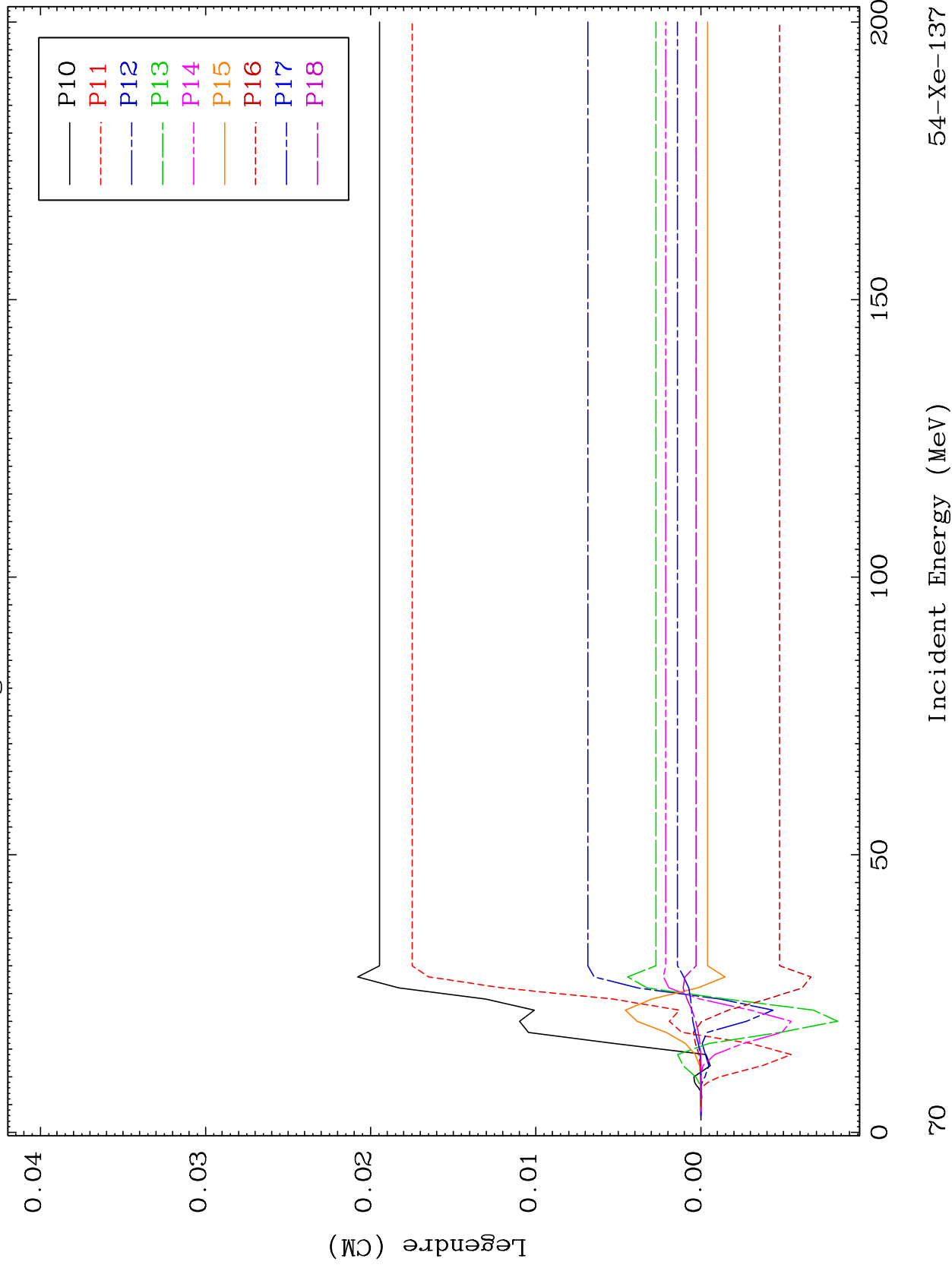
Incident Energy (MeV)

69

MAT 5464

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

54-Xe-137



54-Xe-137

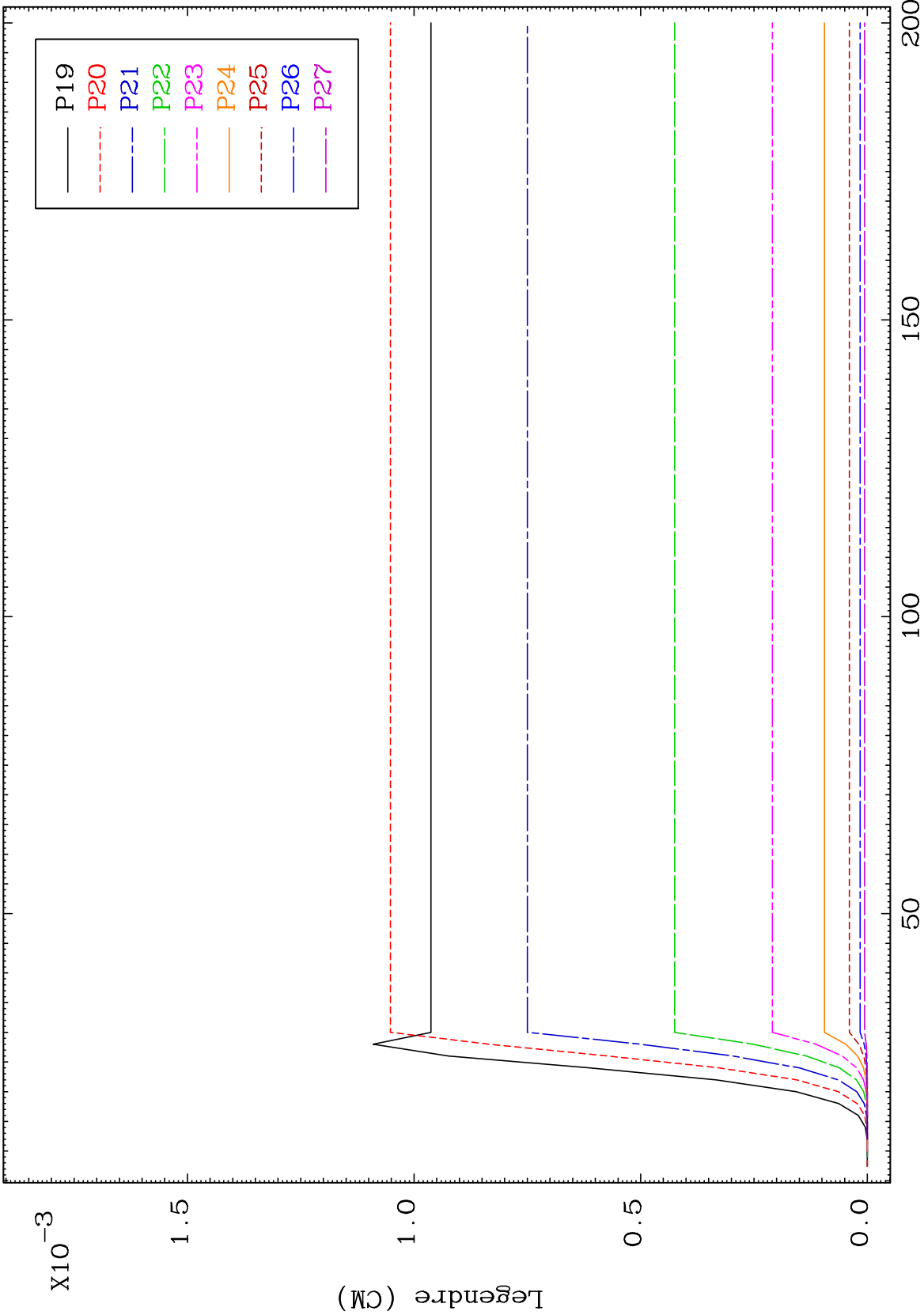
Incident Energy (MeV)

70

MAT 5464

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

54-Xe-137



71

Incident Energy (MeV)

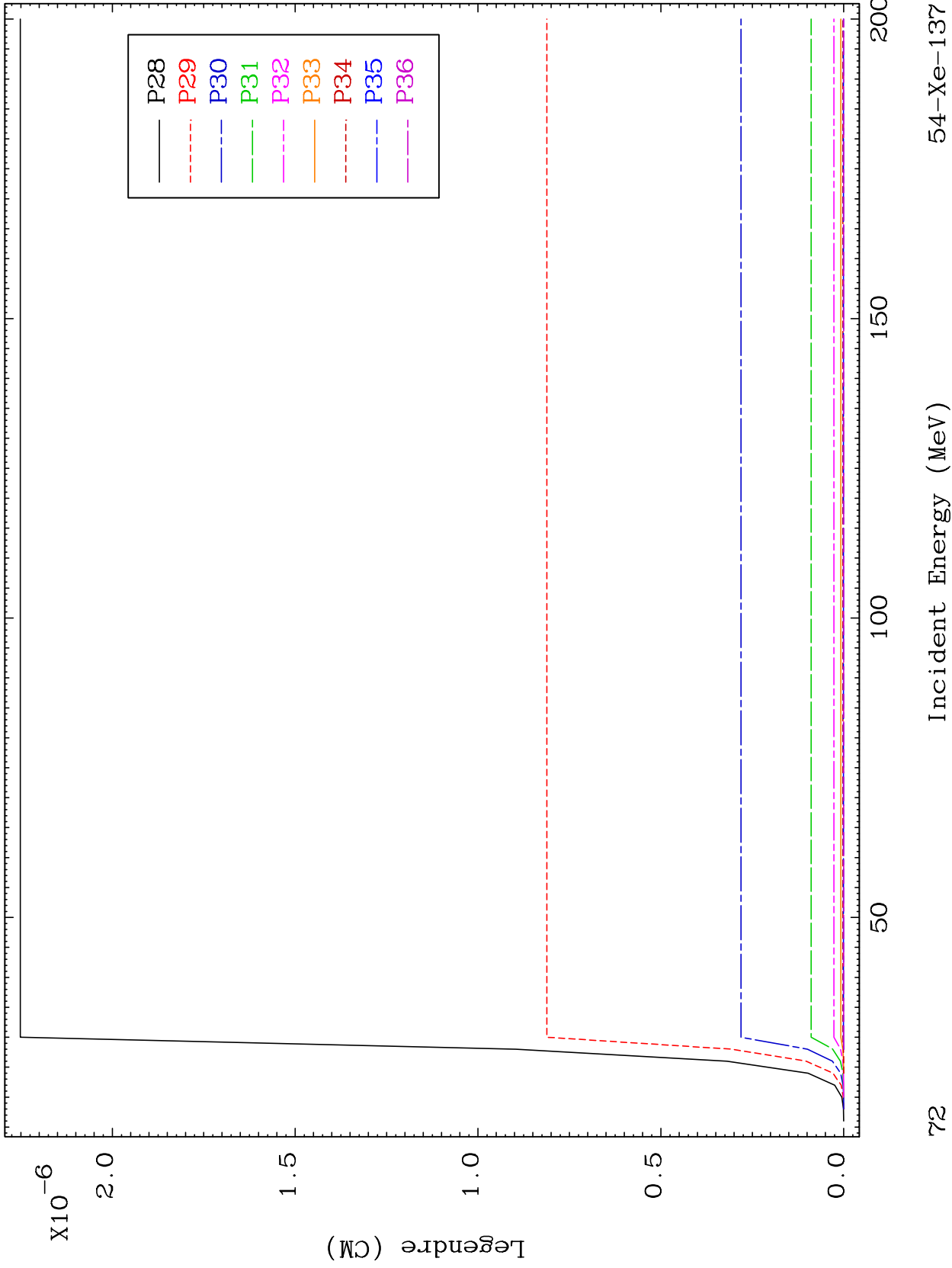
54-Xe-137



MAT 5464

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

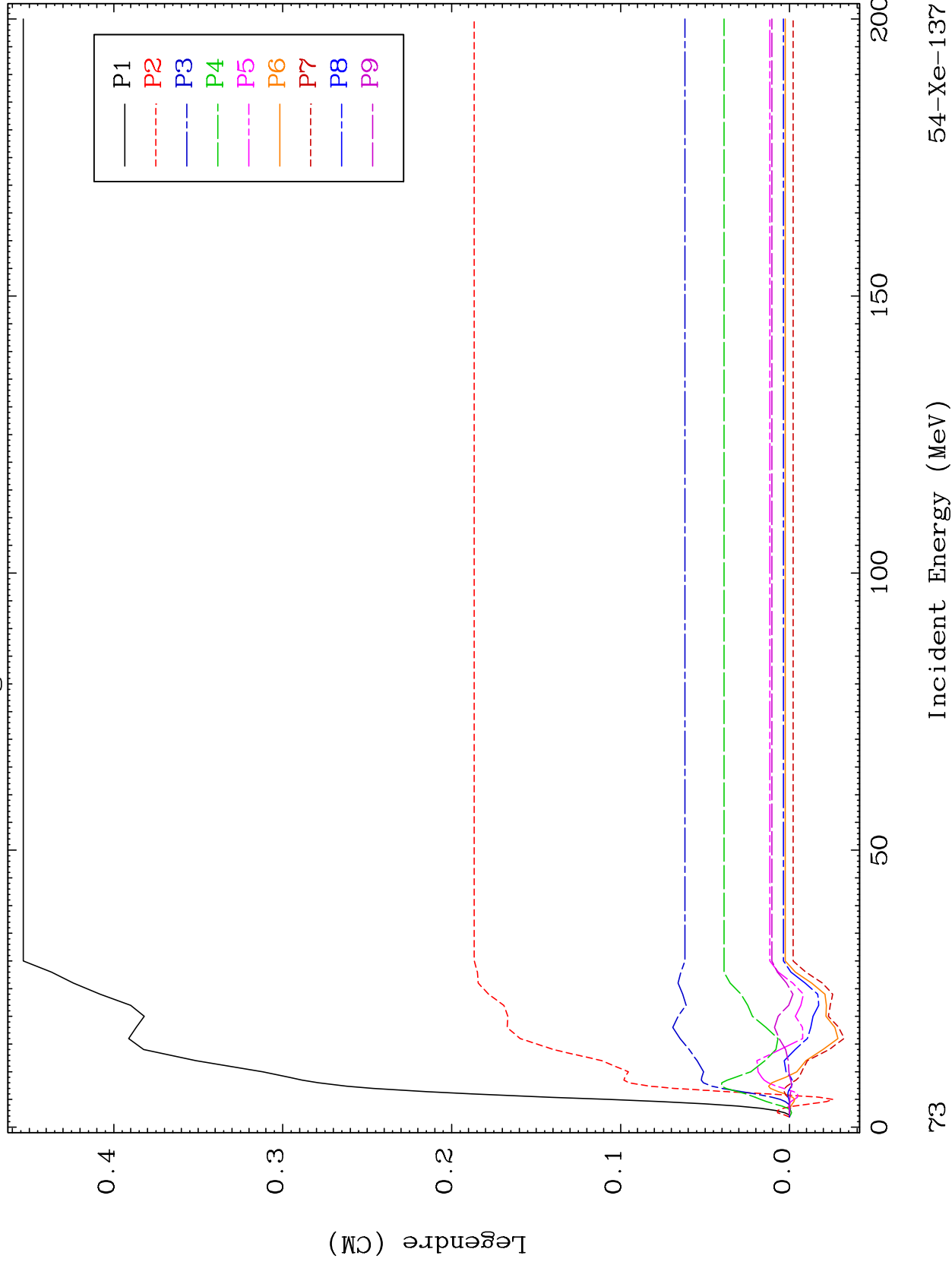
54-Xe-137



MAT 5464

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

54-Xe-137



54-Xe-137

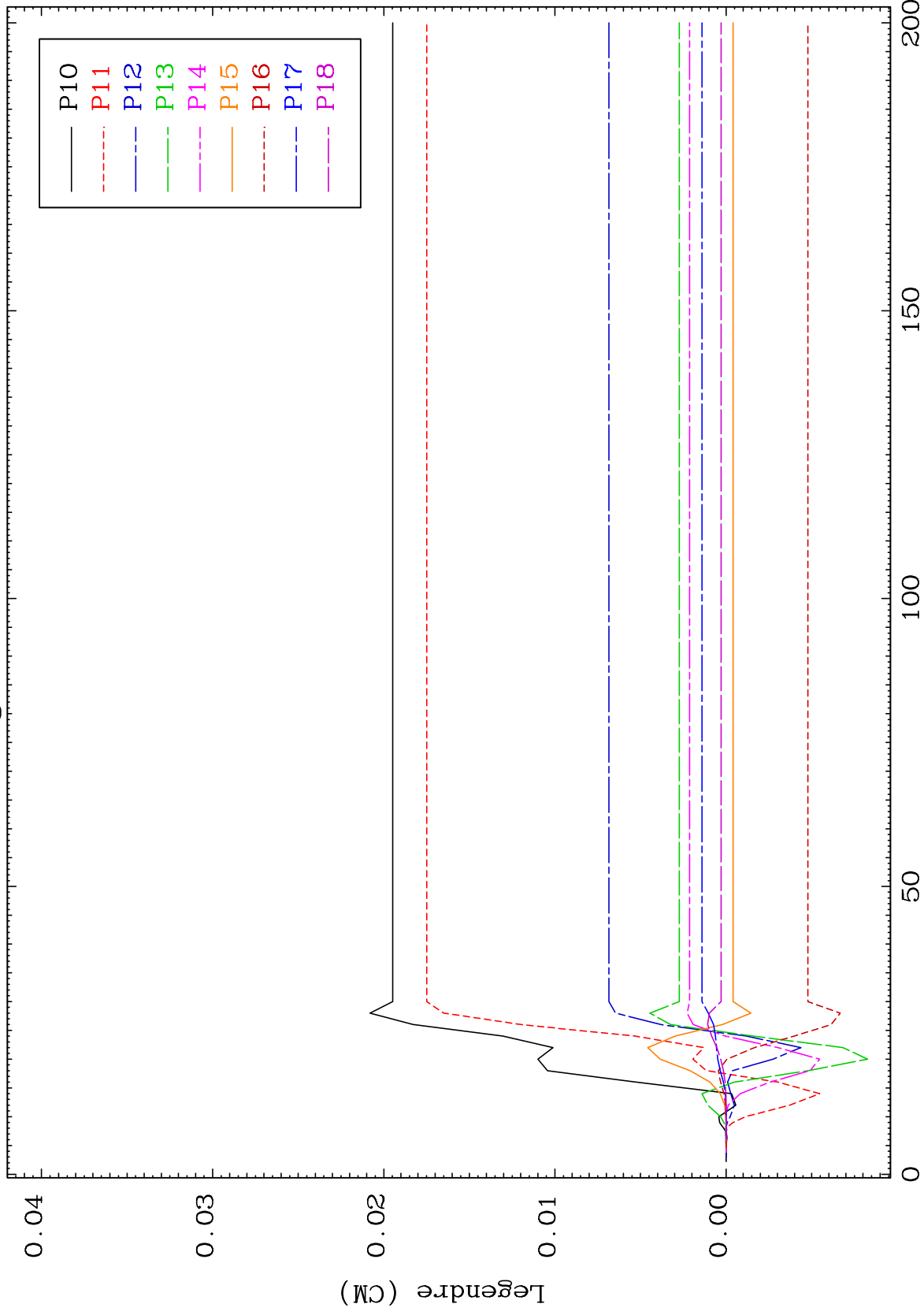
Incident Energy (MeV)

73

MAT 5464

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

54-Xe-137



74

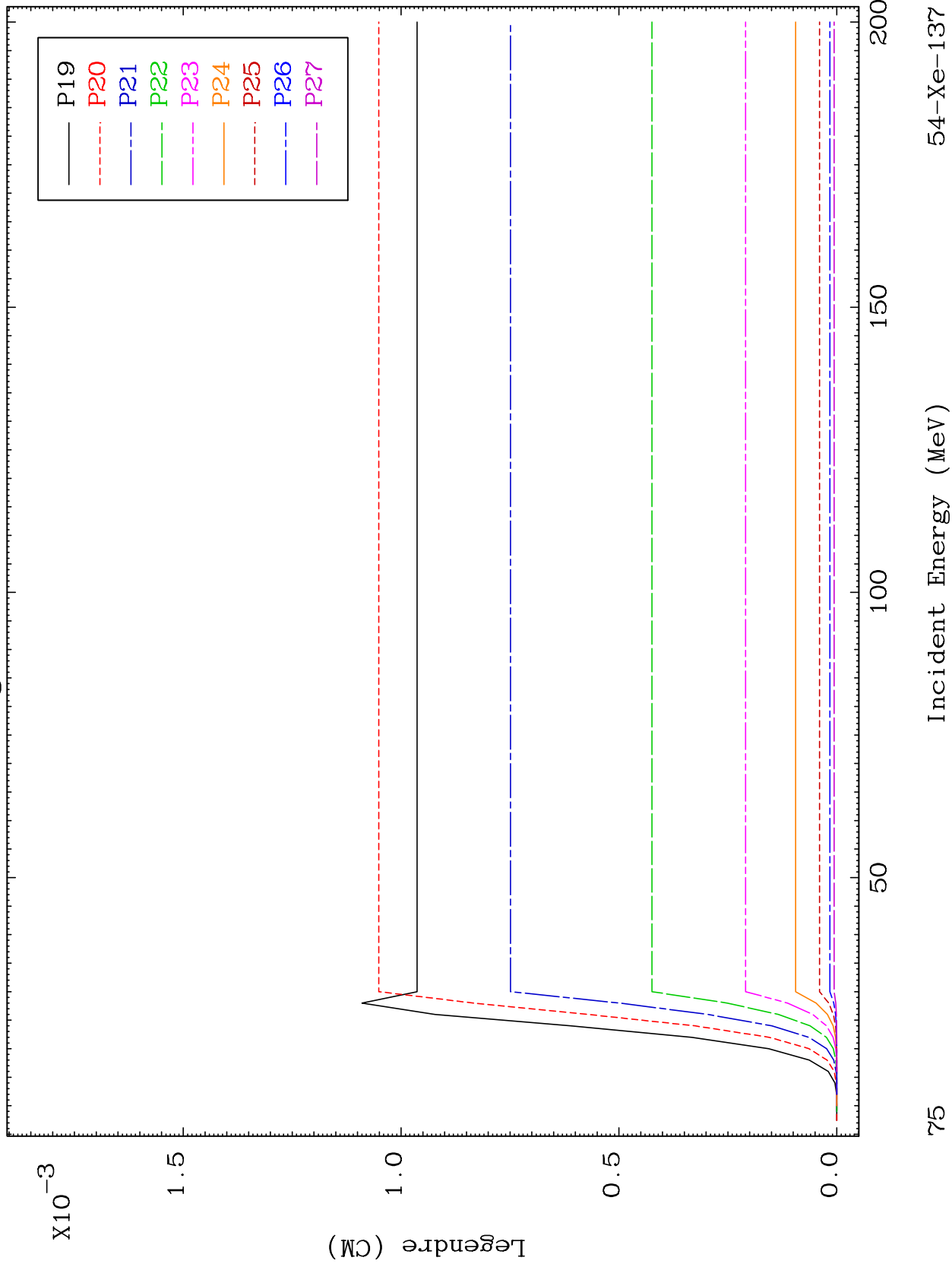
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

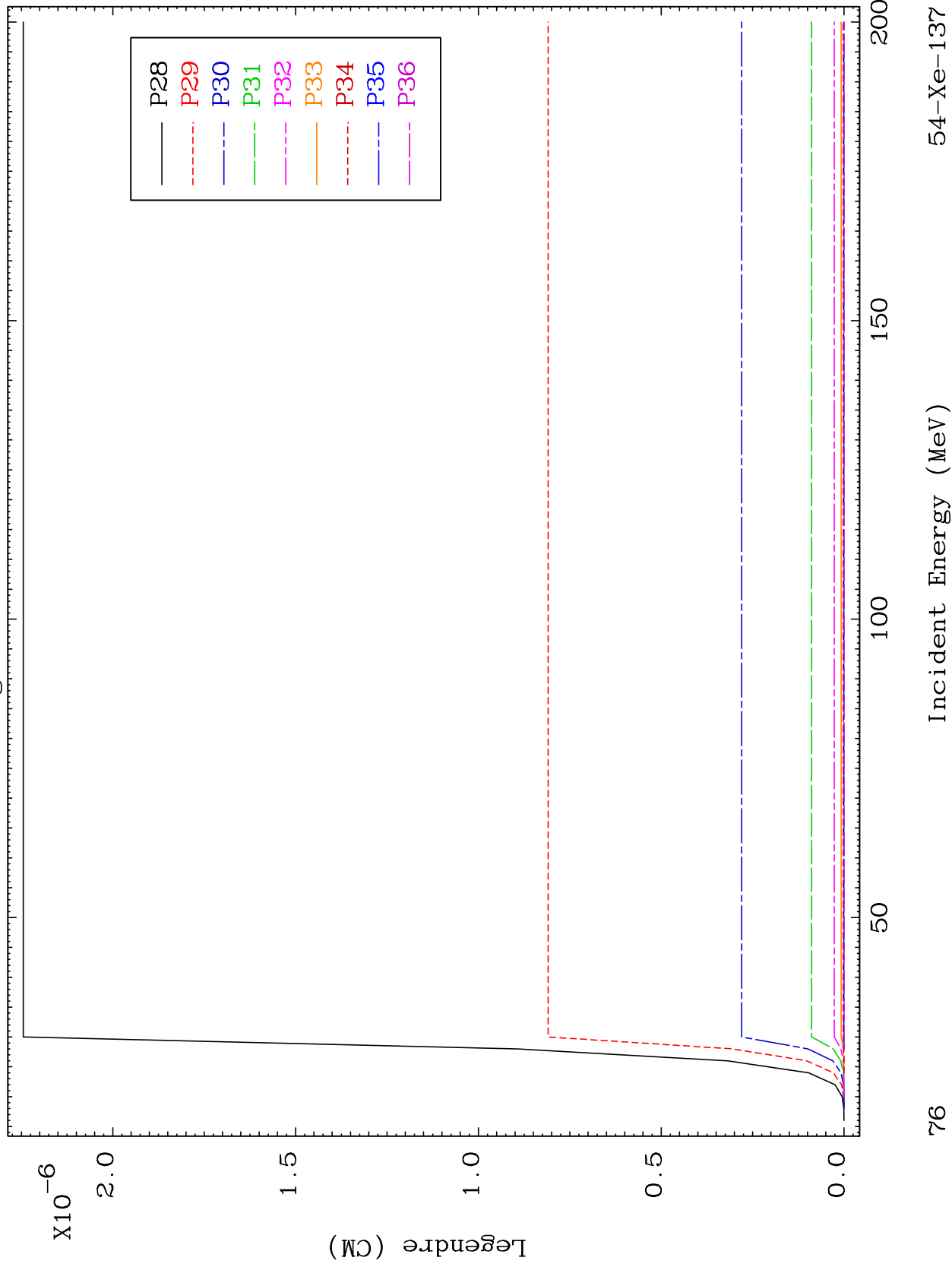
54-Xe-137



MAT 5464

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

54-Xe-137



54-Xe-137

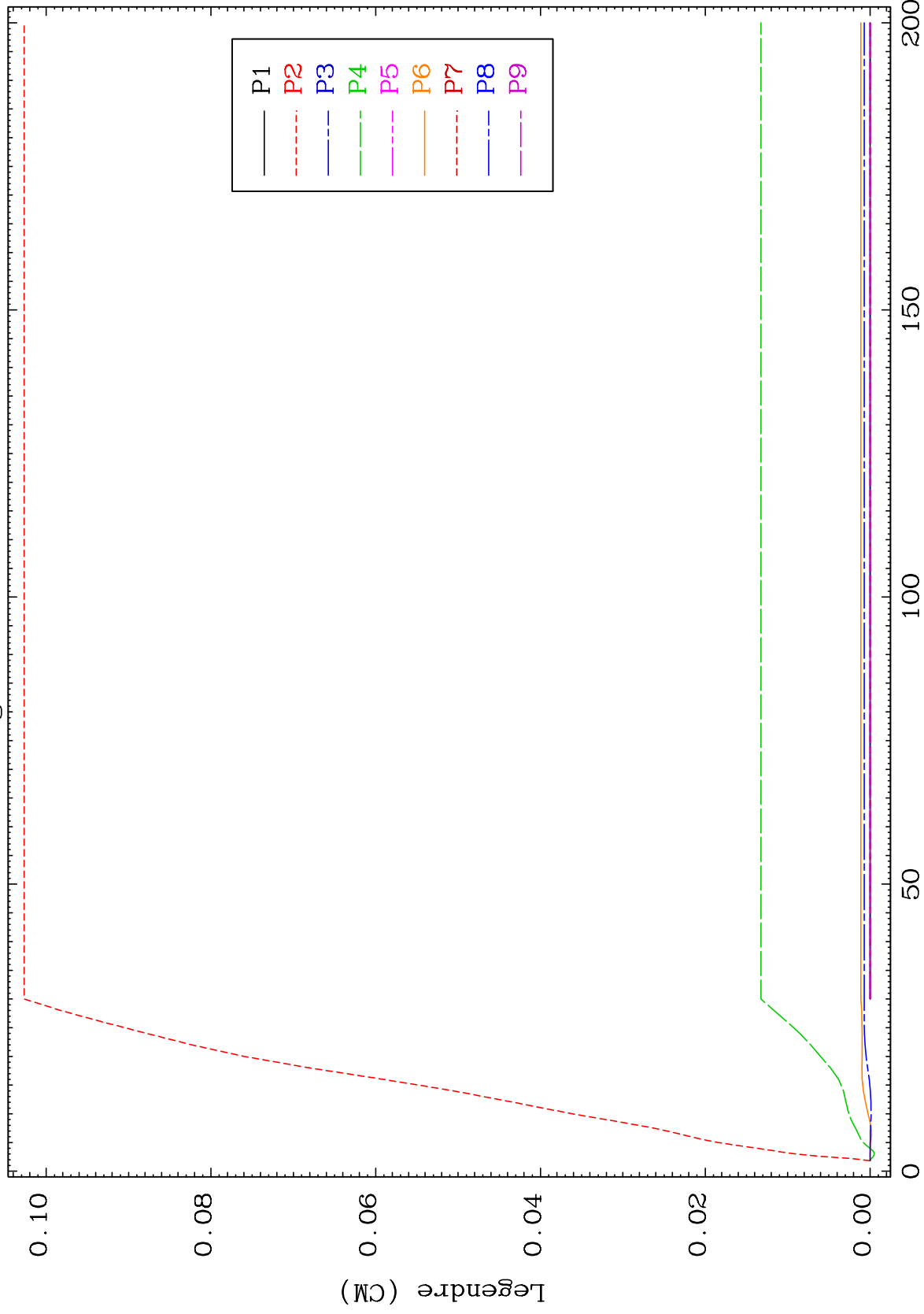
Incident Energy (MeV)

76

MAT 5464

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

54-Xe-137



77

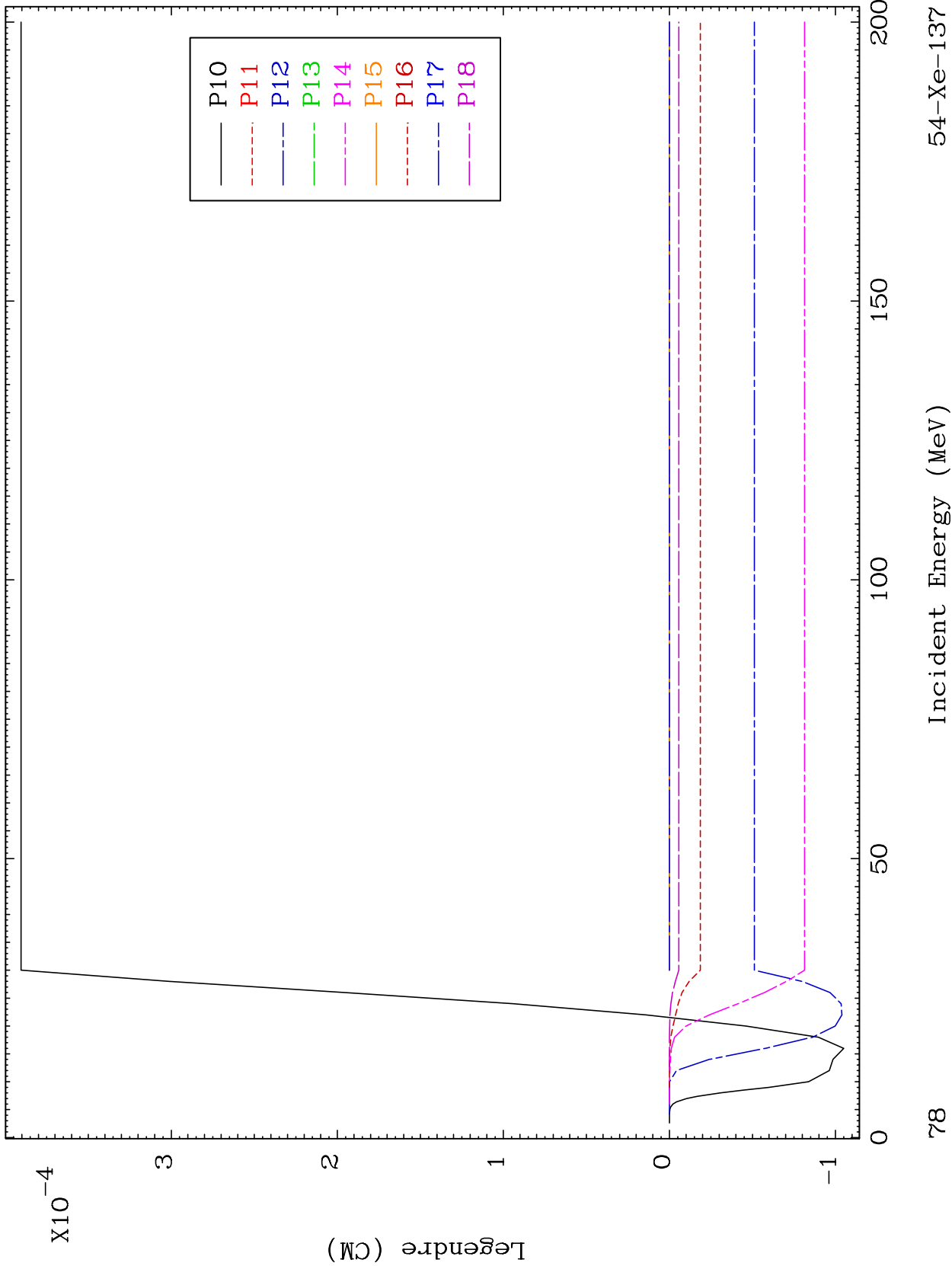
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



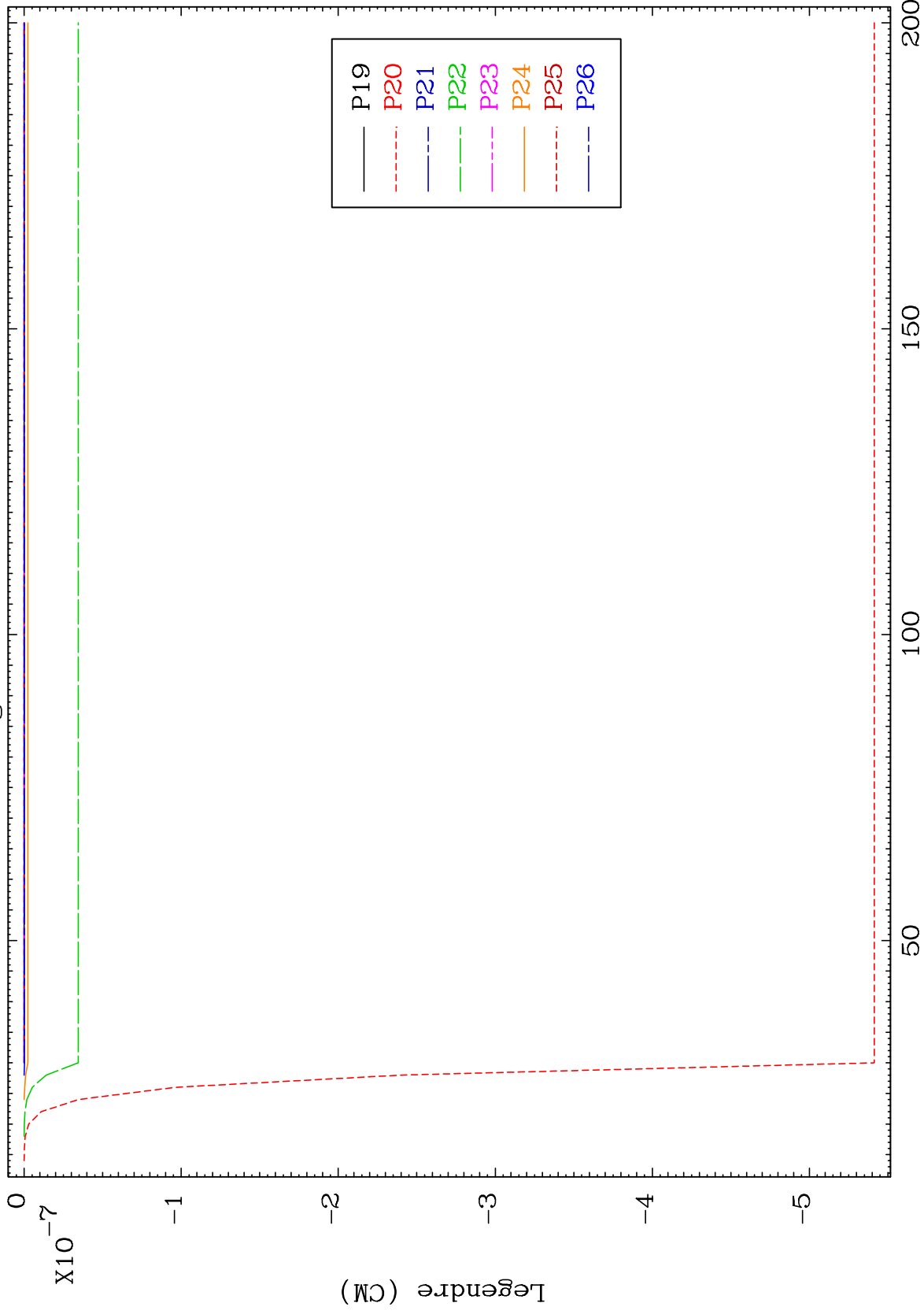
78

54-Xe-137

MAT 5464

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

54-Xe-137



79

Incident Energy (MeV)

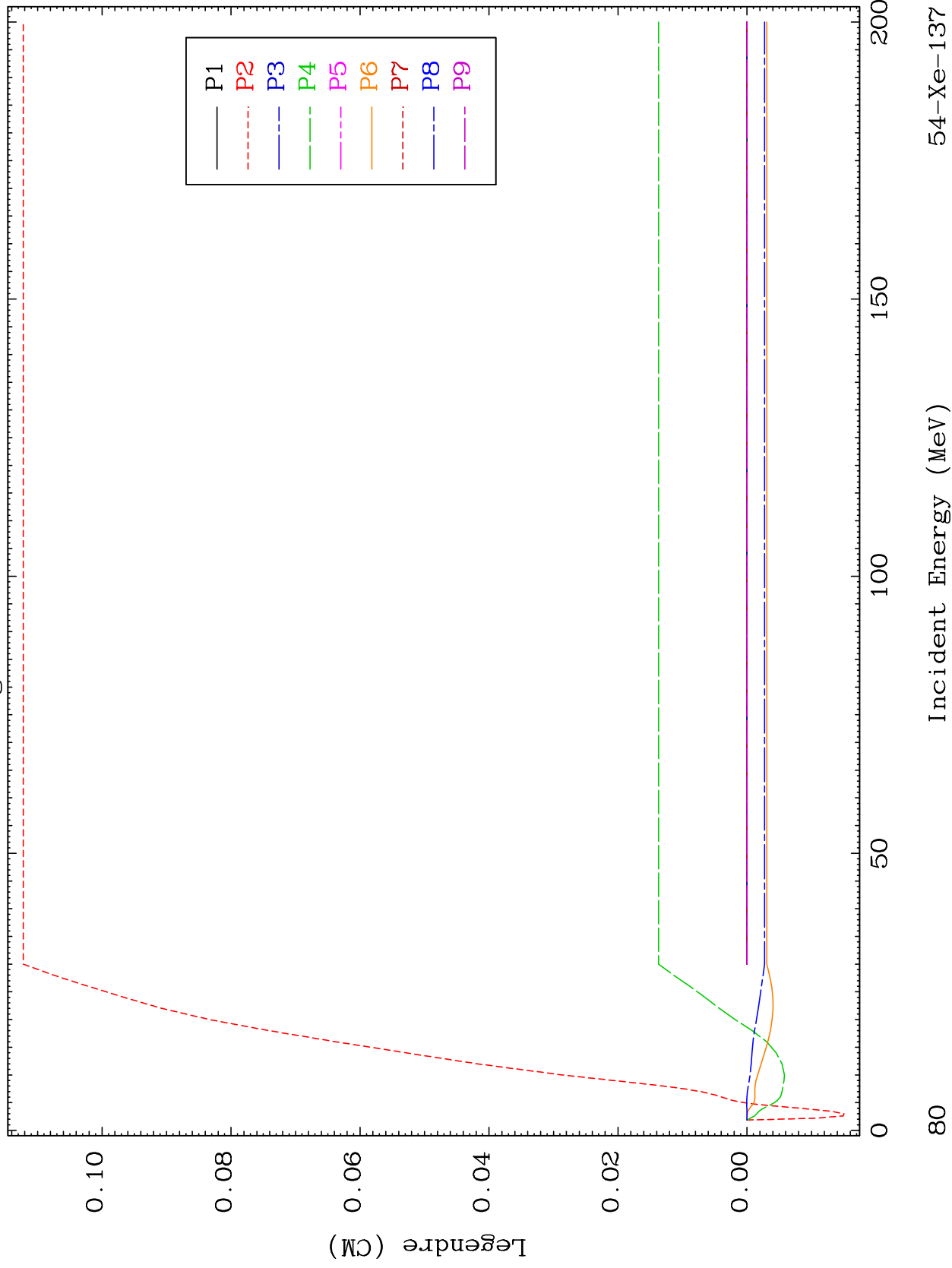
54-Xe-137



MAT 5464

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

54-Xe-137

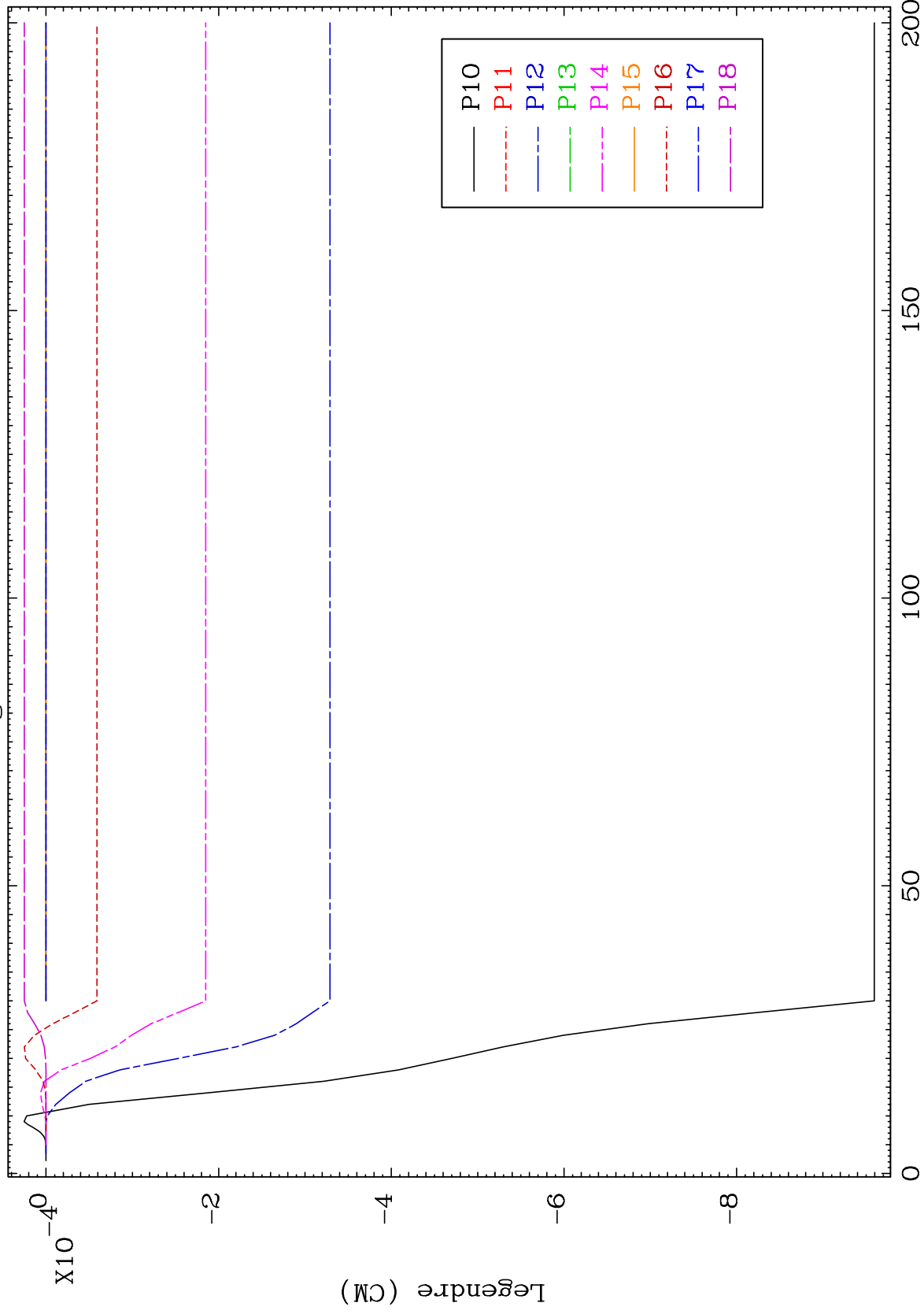


54-Xe-137

MAT 5464

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

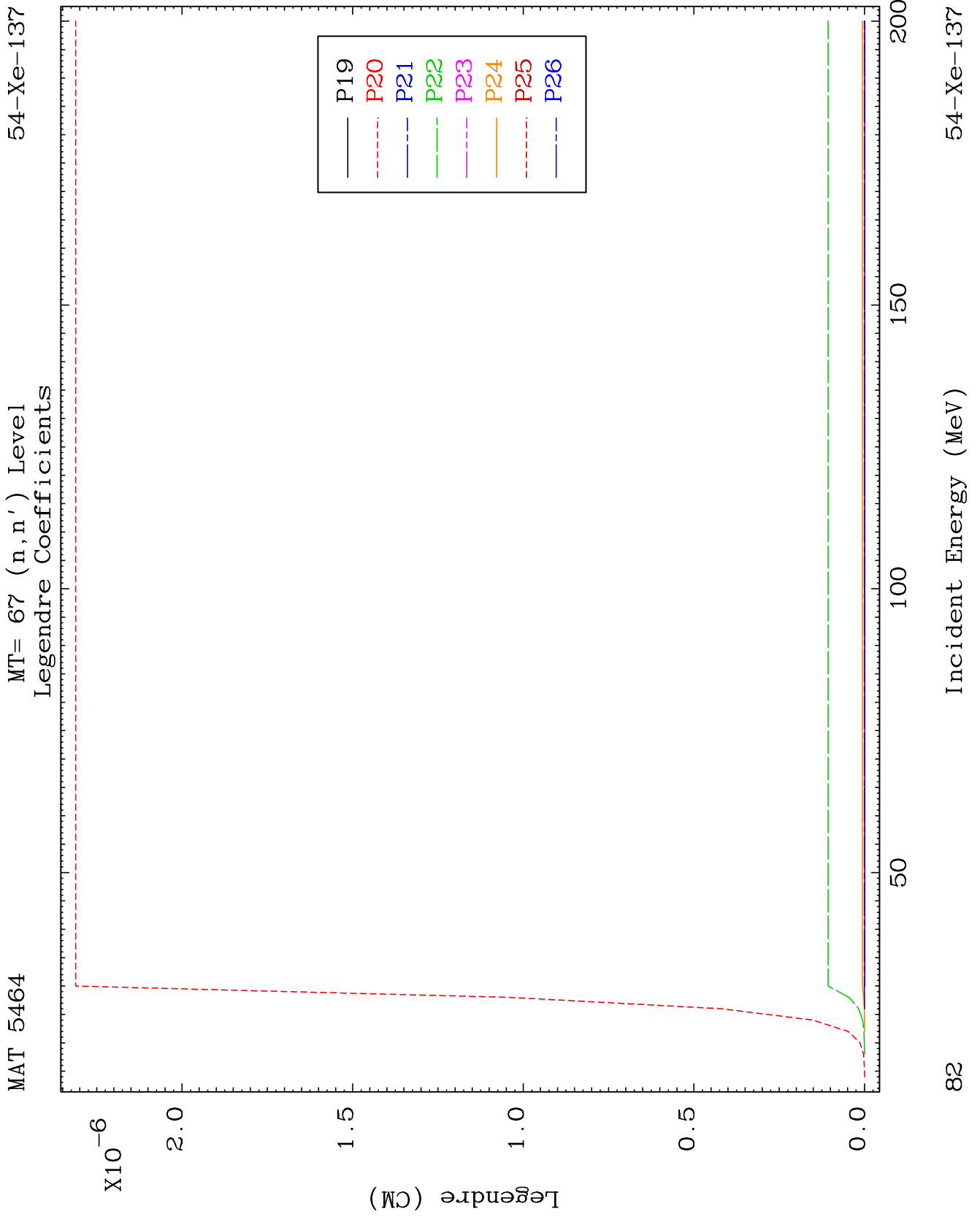
54-Xe-137



81

Incident Energy (MeV)

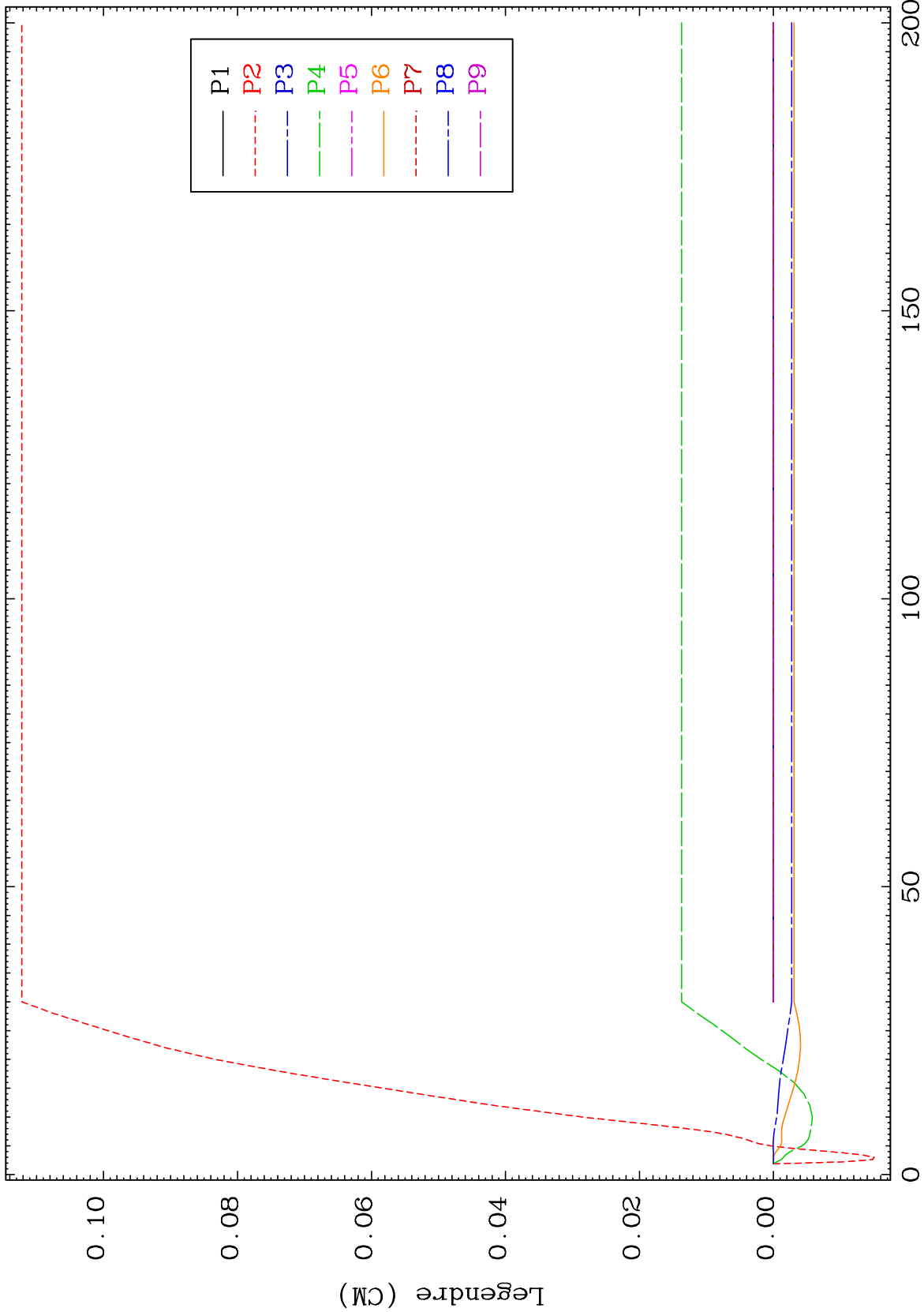
54-Xe-137



MAT 5464

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

54-Xe-137



83

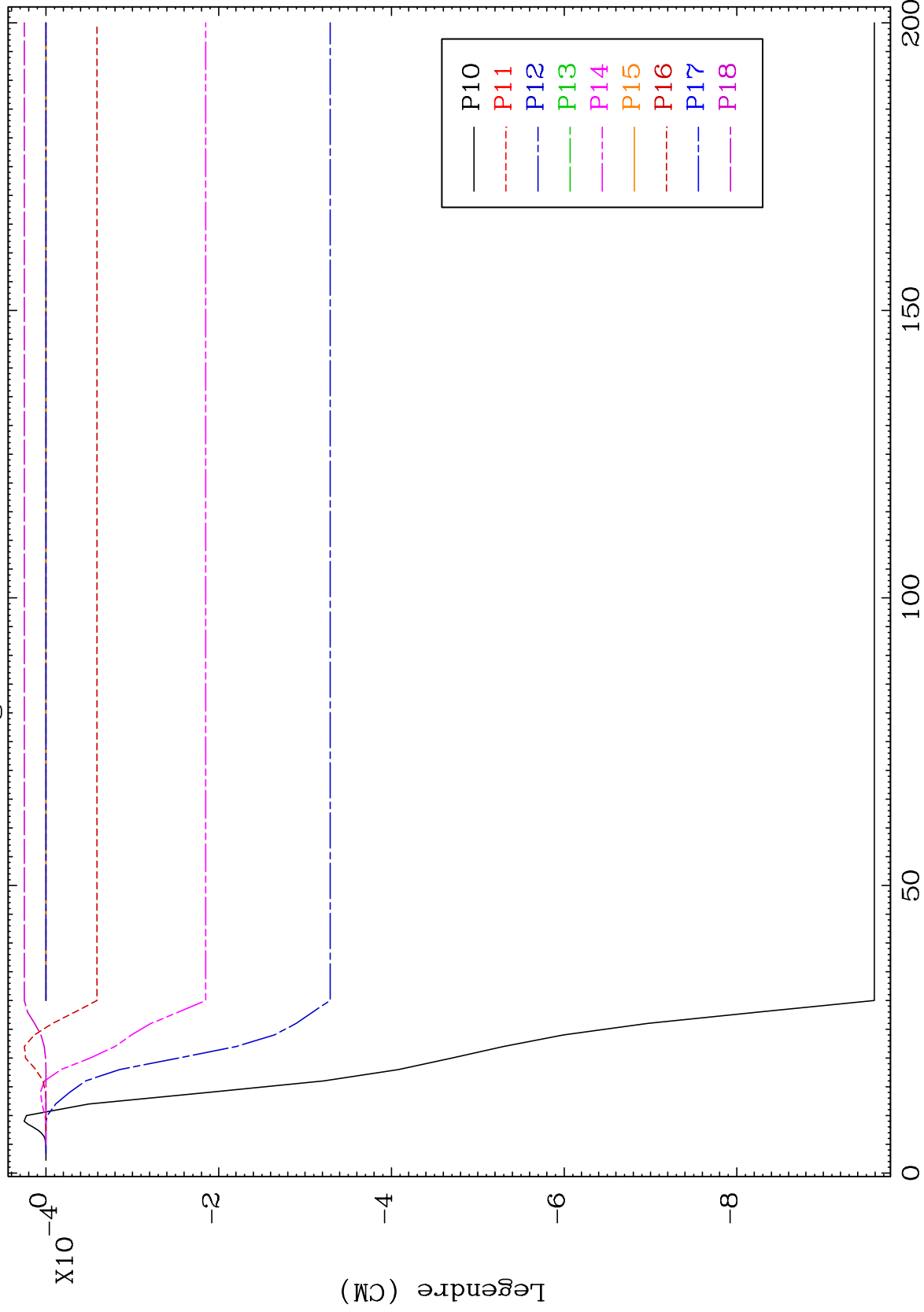
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

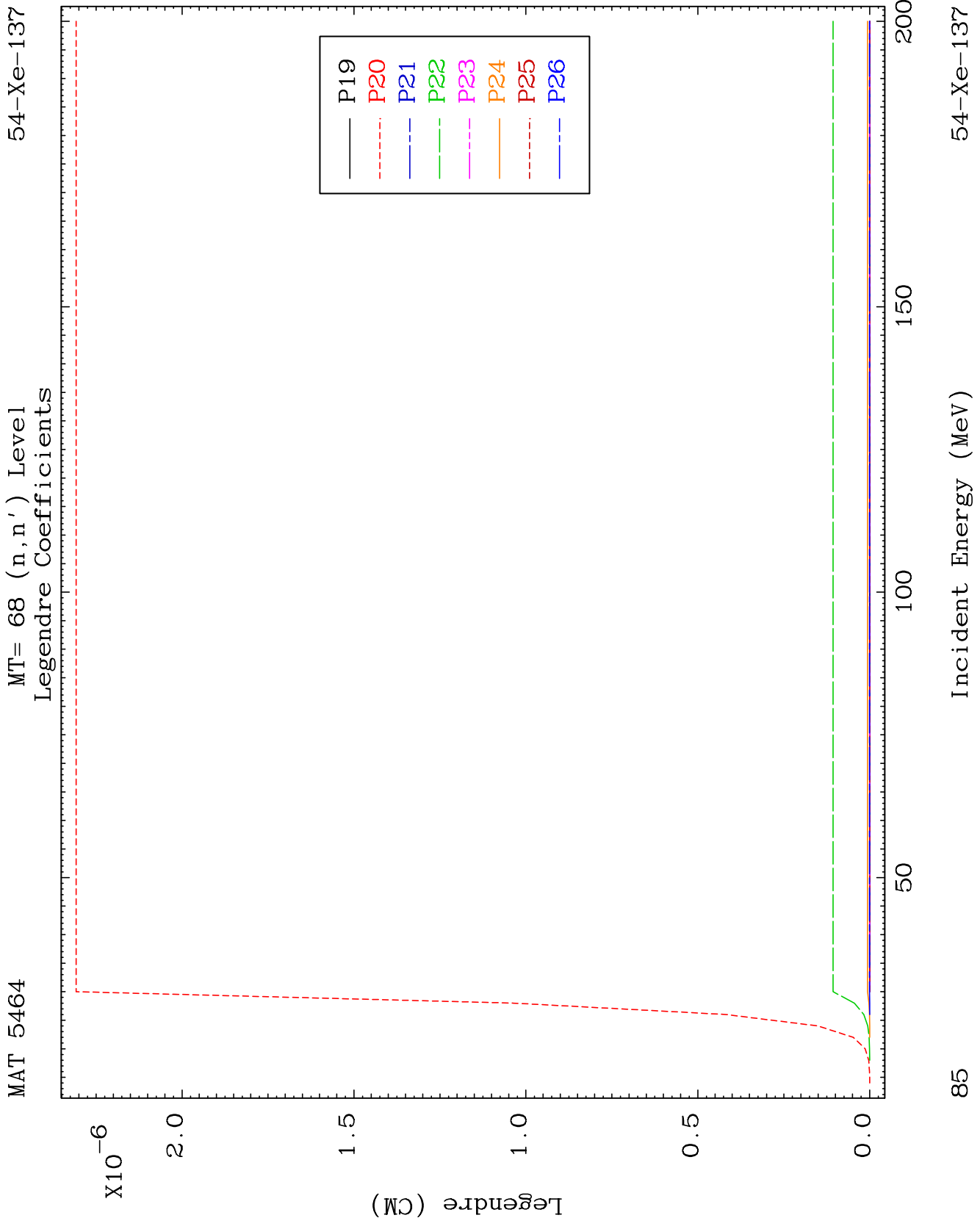
54-Xe-137



84

Incident Energy (MeV)

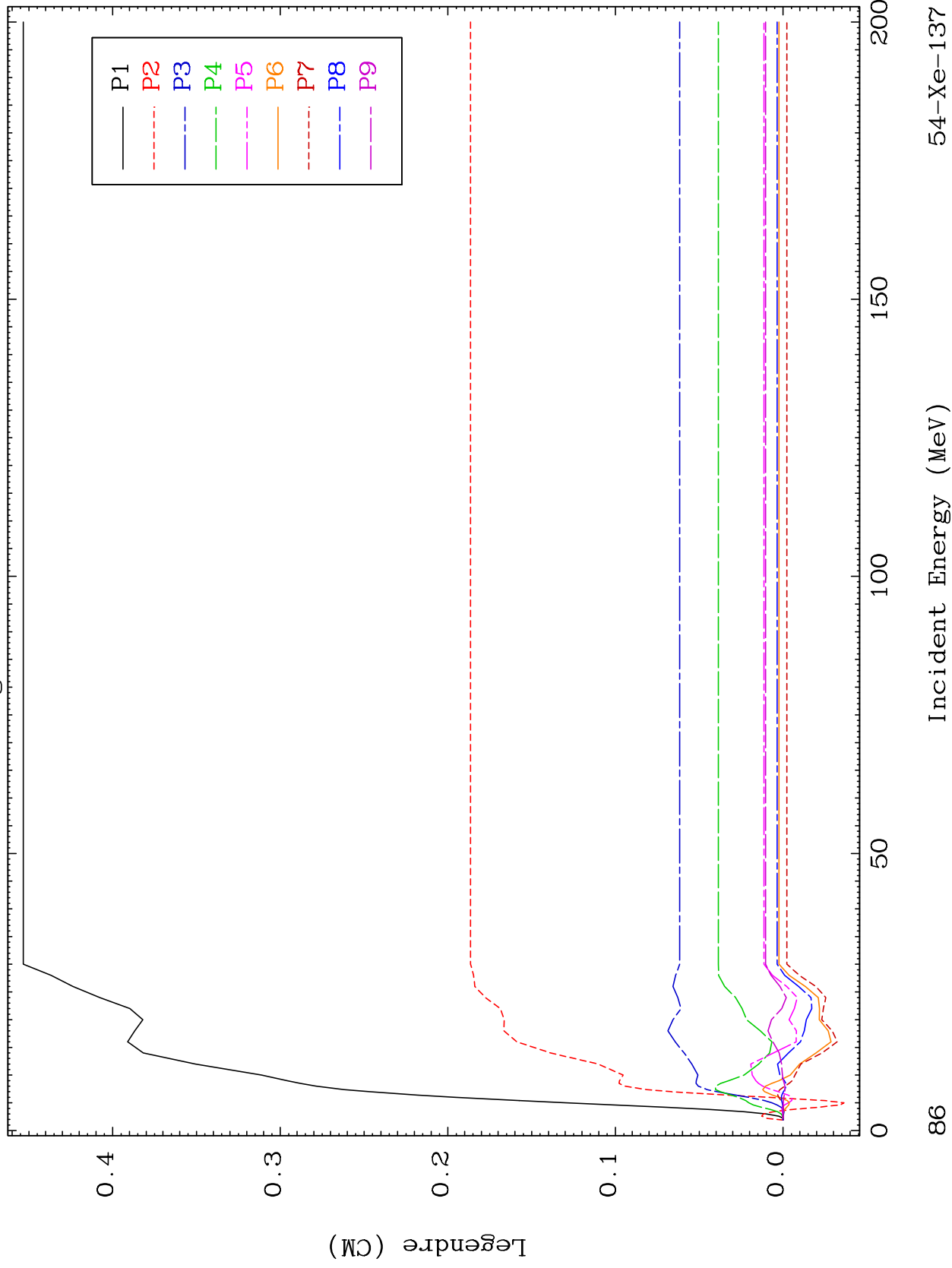
54-Xe-137



MAT 5464

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

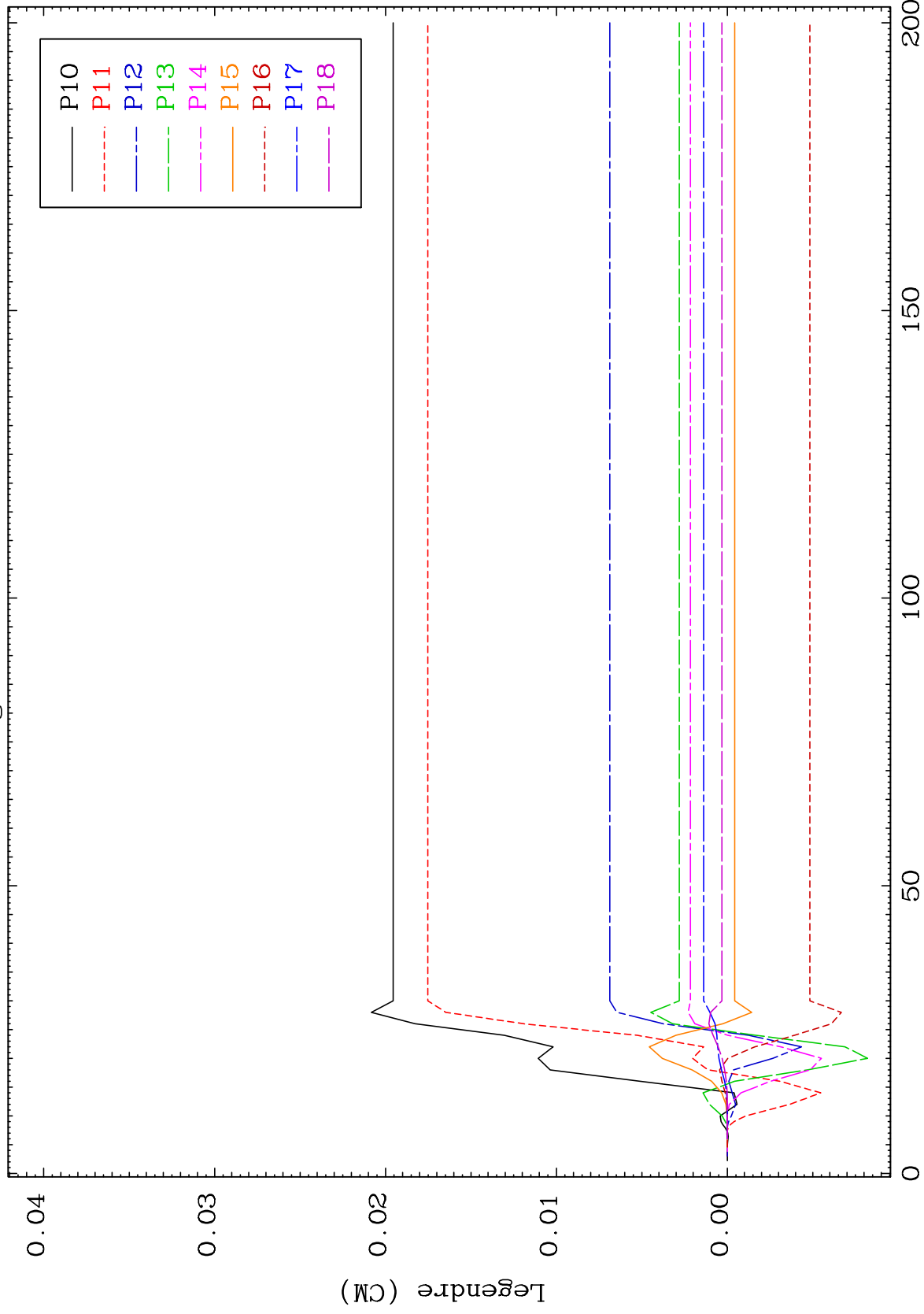
54-Xe-137



MAT 5464

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

54-Xe-137



87

Incident Energy (MeV)

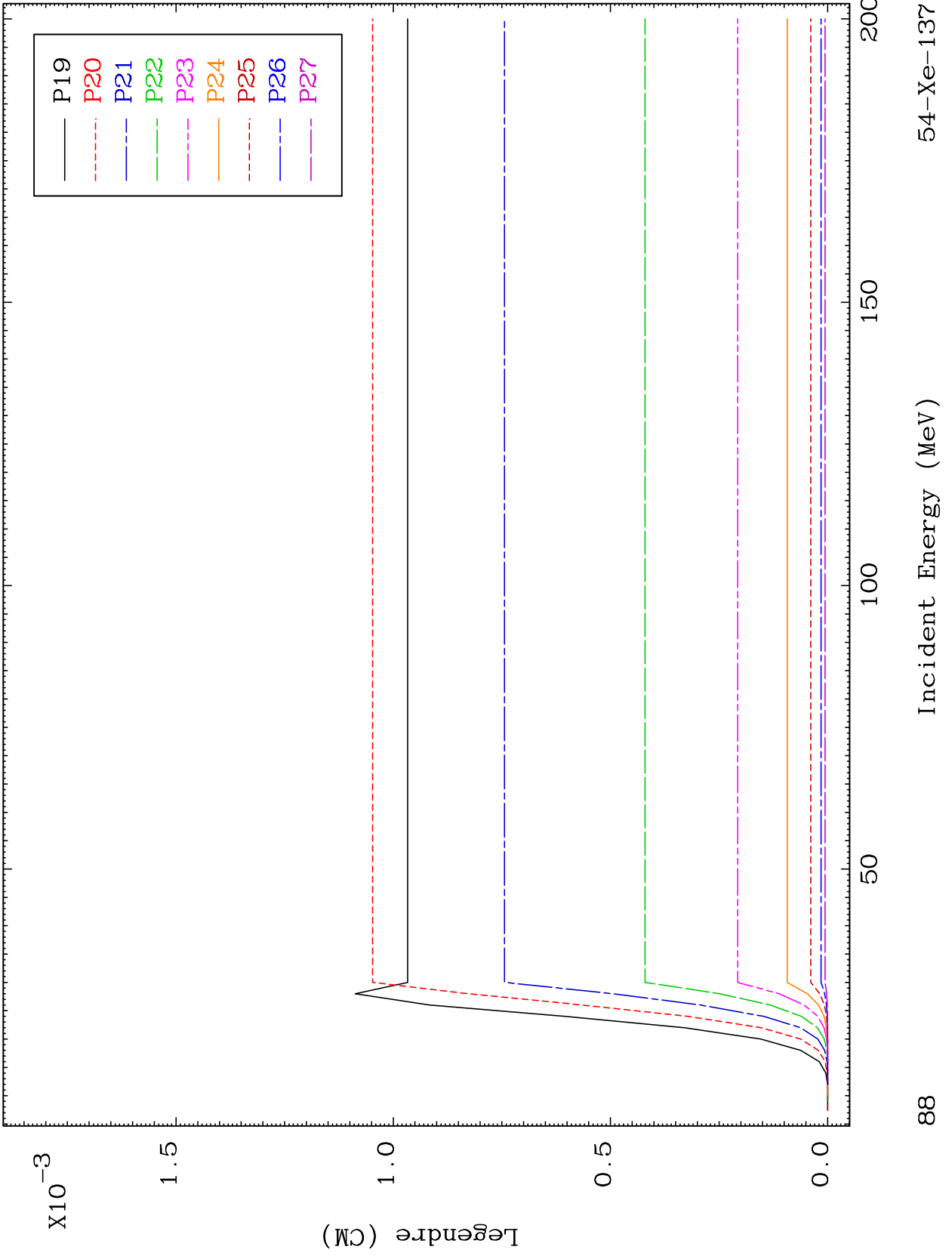
54-Xe-137



MAT 5464

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

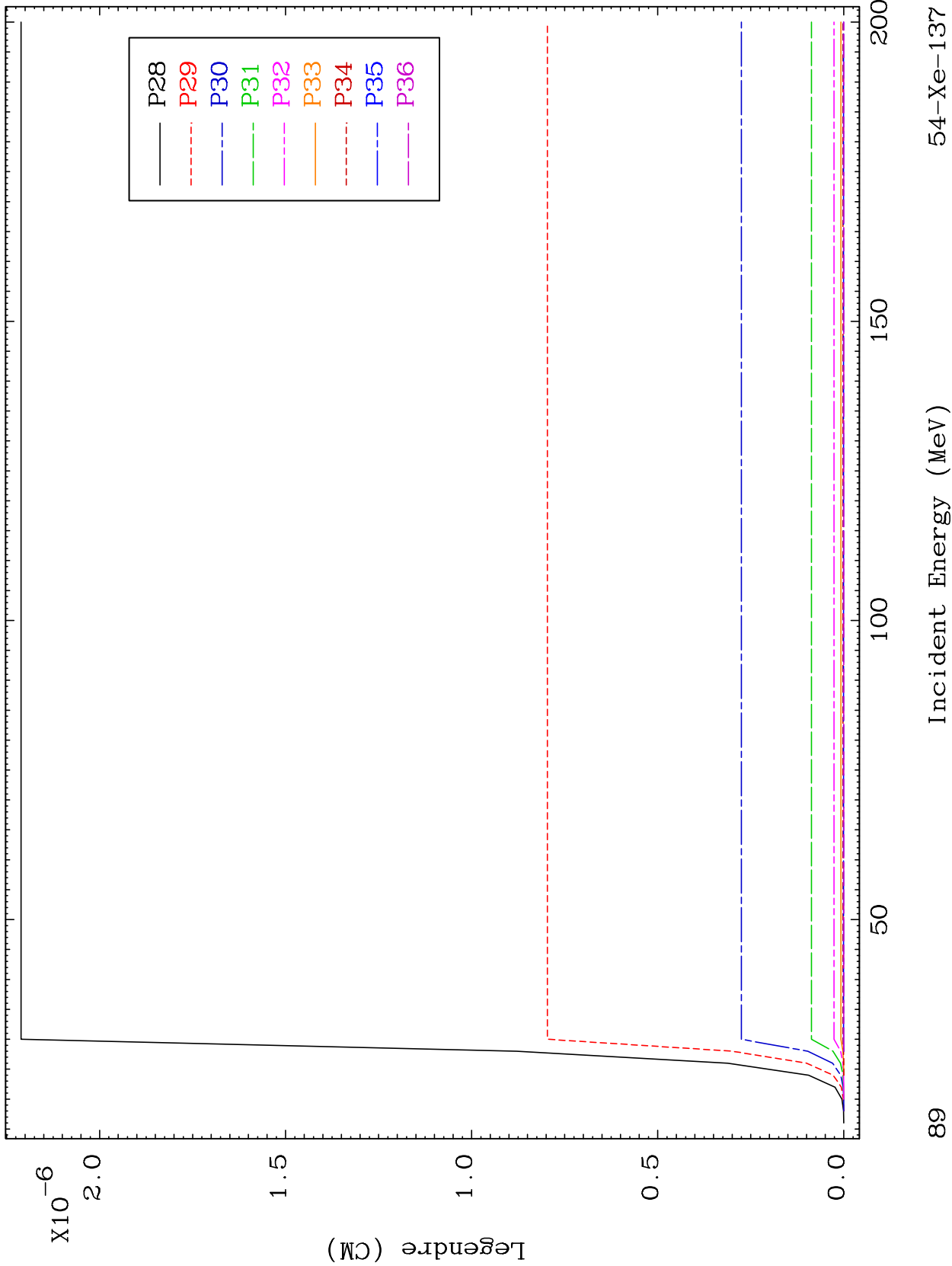
54-Xe-137



MAT 5464

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

54-Xe-137



54-Xe-137

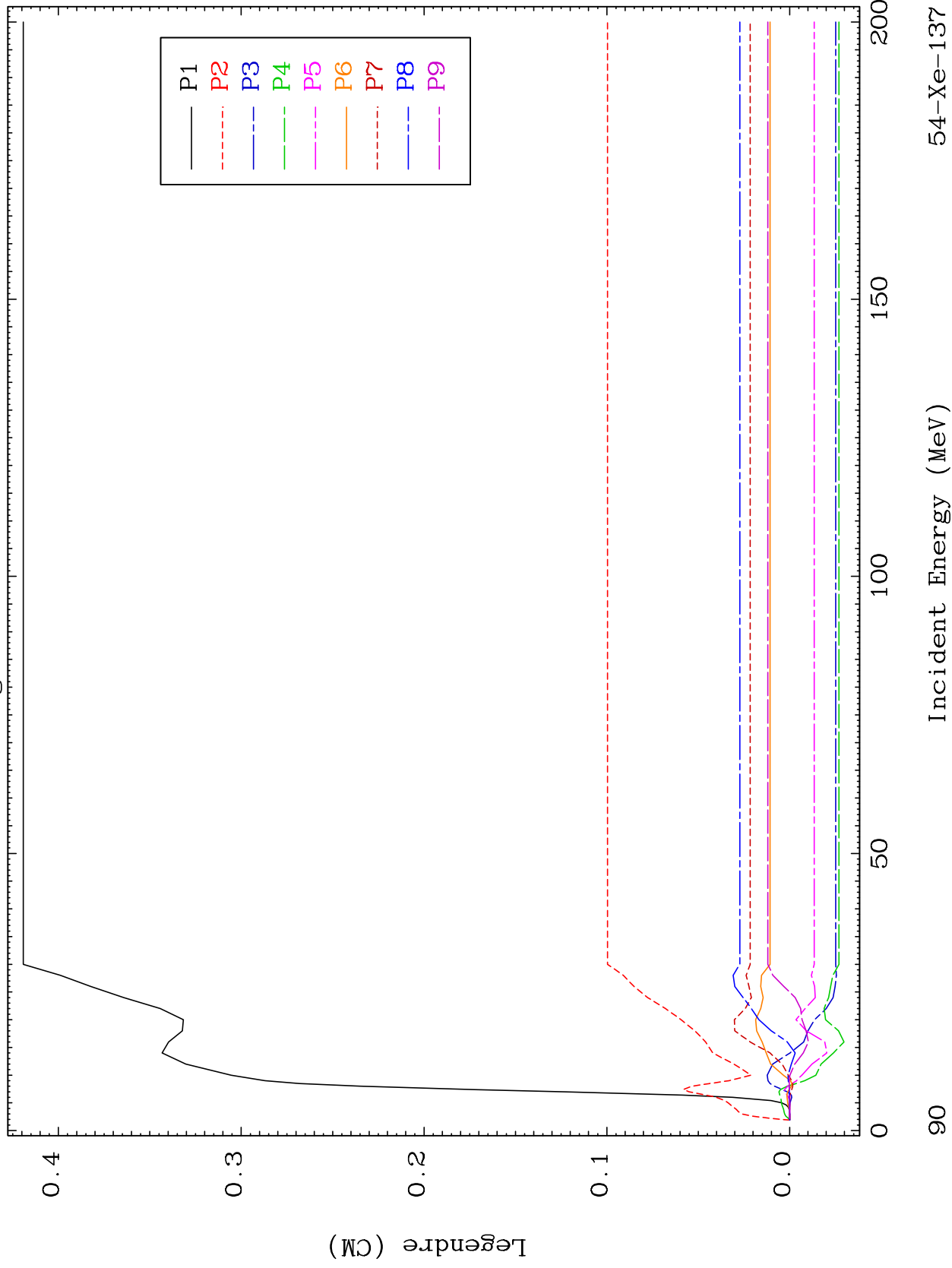
Incident Energy (MeV)

89

MAT 5464

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

54-Xe-137



54-Xe-137

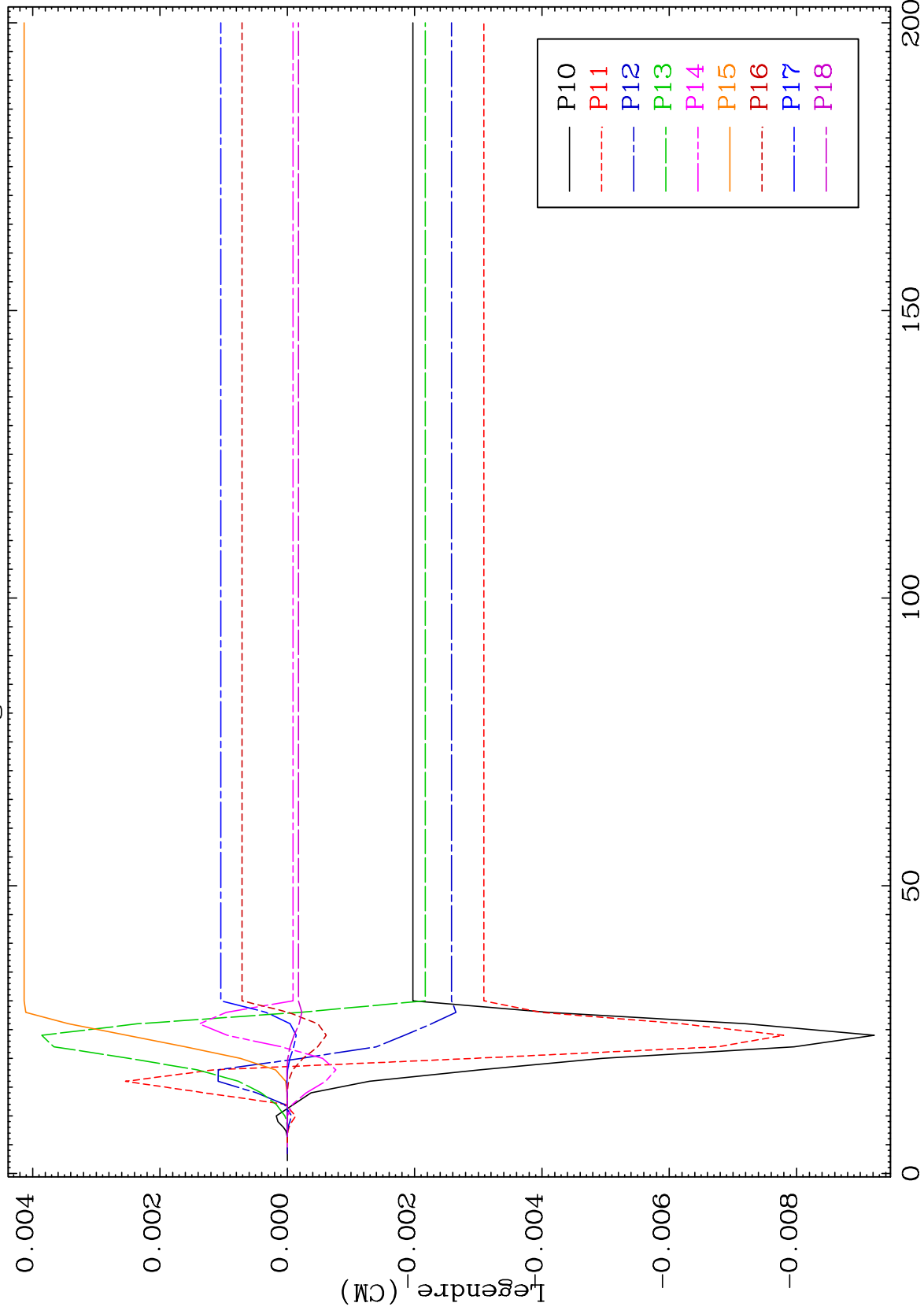
Incident Energy (MeV)

90

MAT 5464

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

54-Xe-137



91

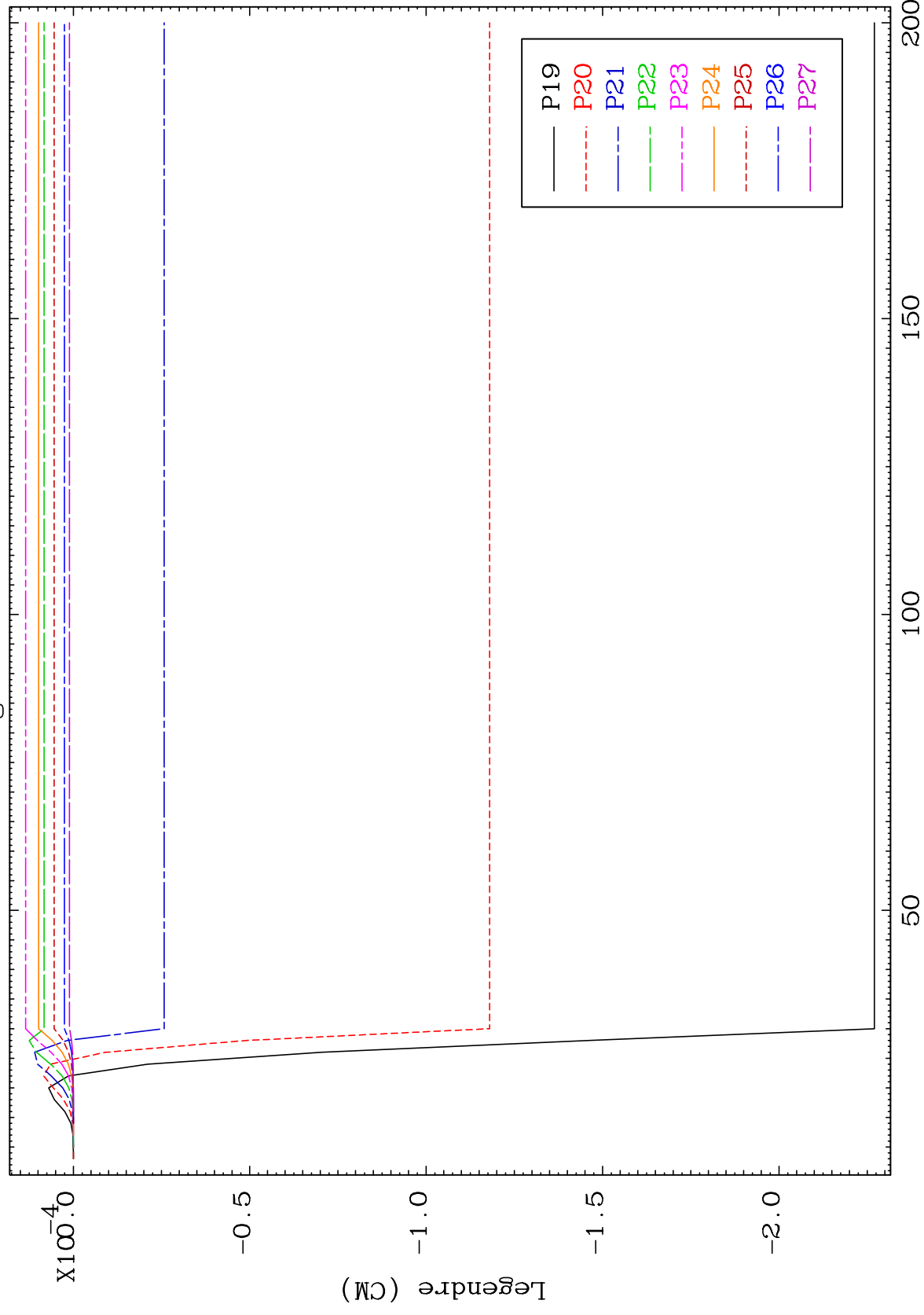
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

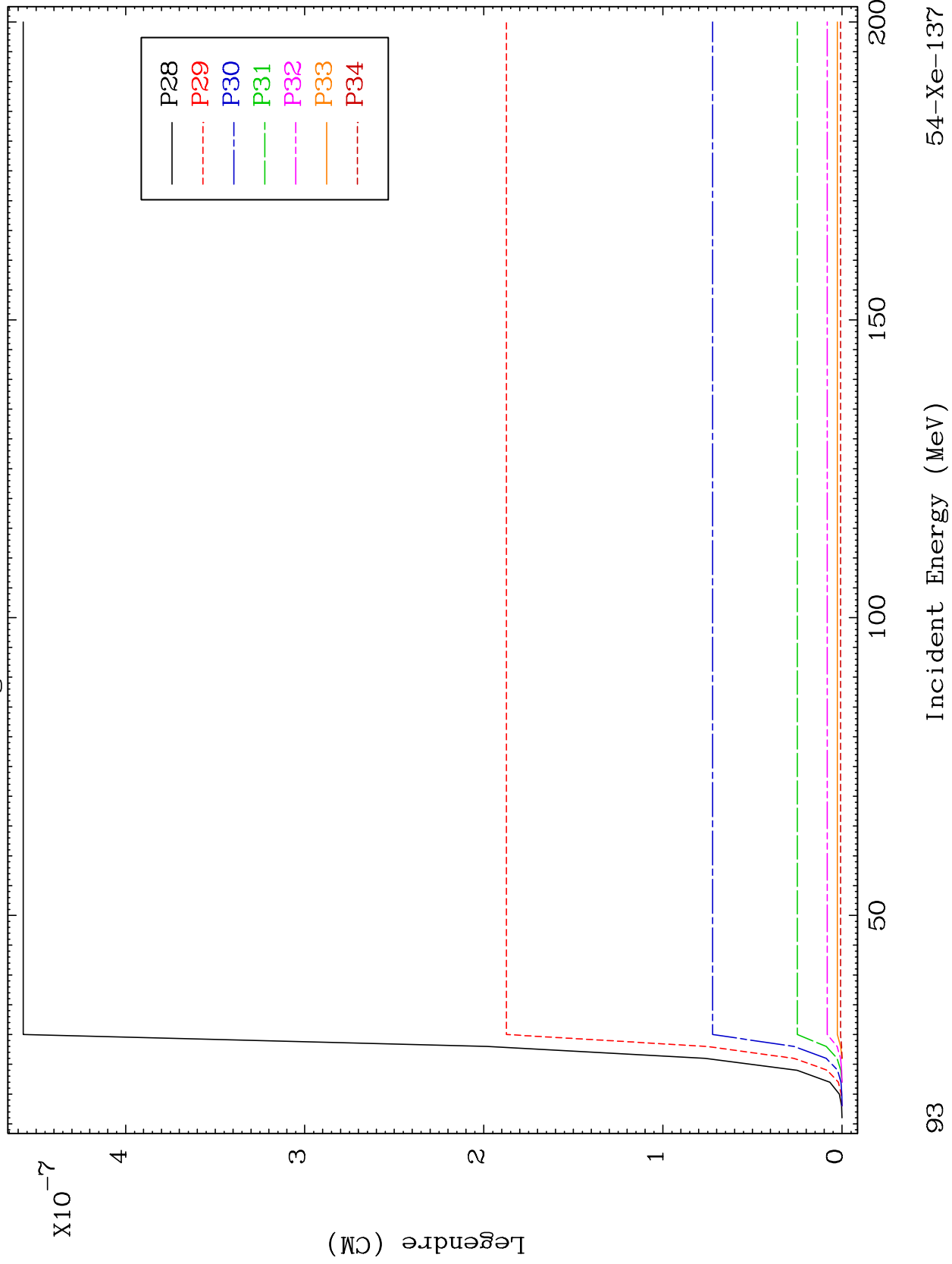
54-Xe-137



MAT 5464

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

54-Xe-137



93

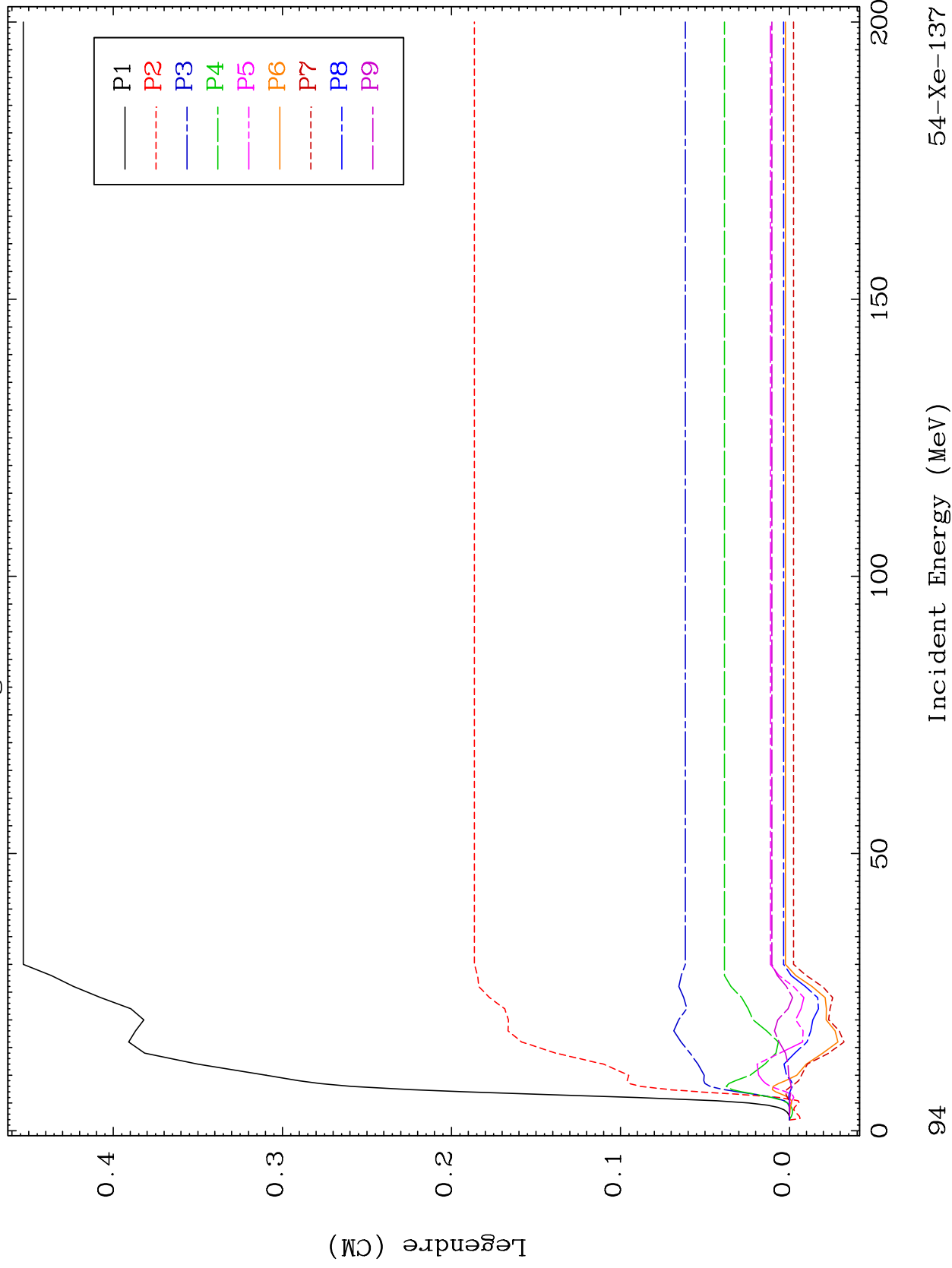
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



54-Xe-137

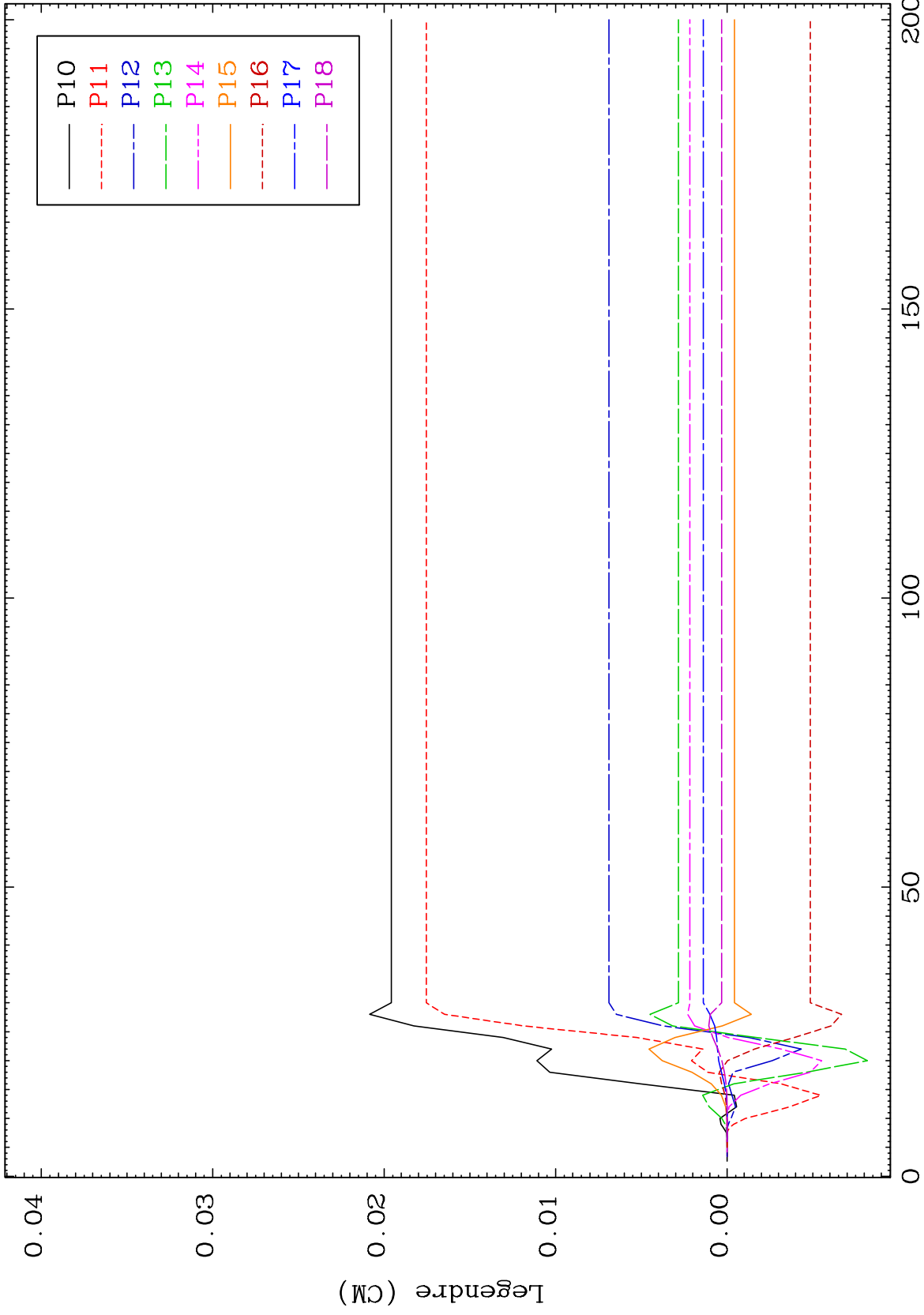
Incident Energy (MeV)

94

MAT 5464

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

54-Xe-137

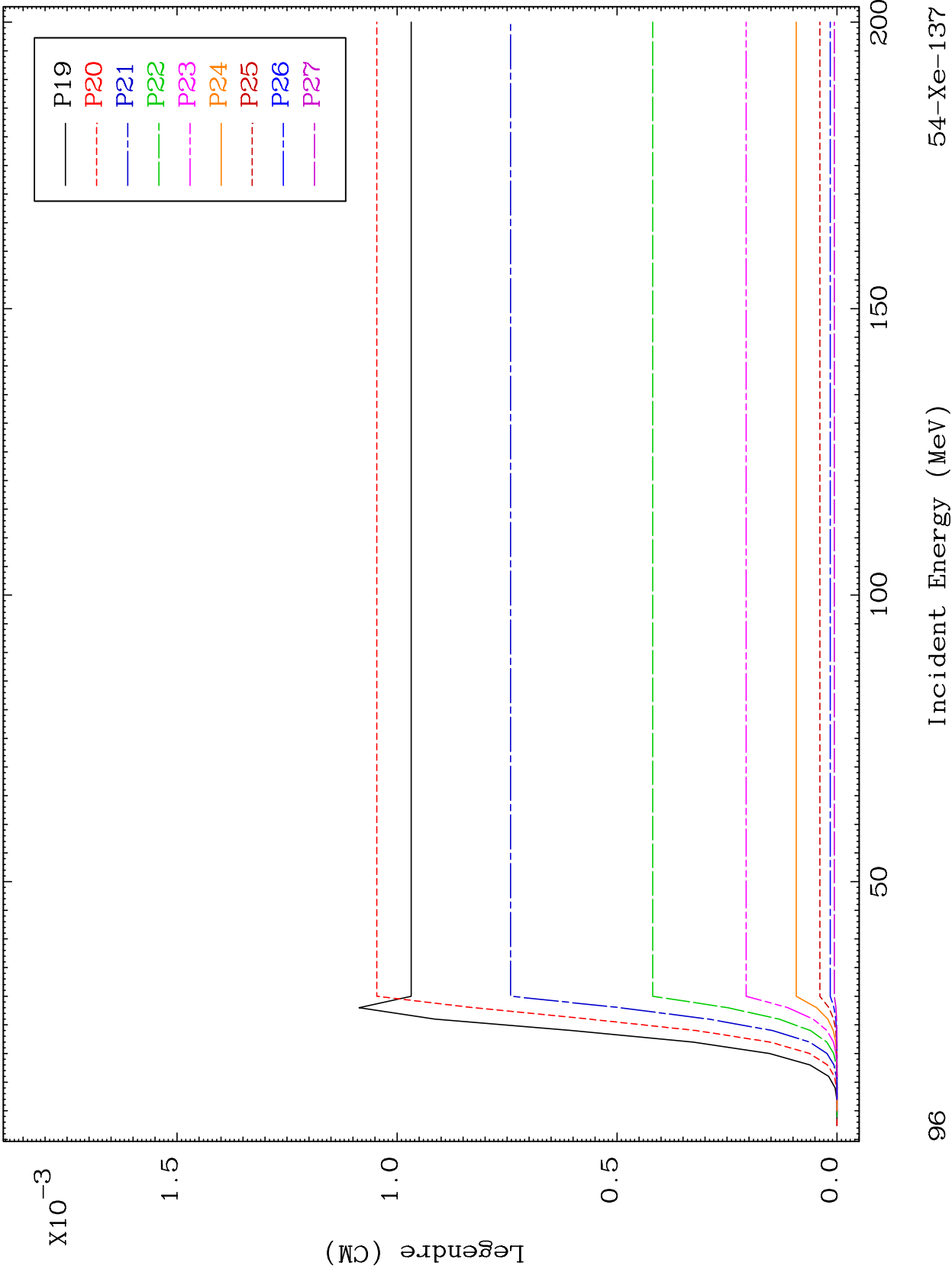


95

Incident Energy (MeV)

54-Xe-137

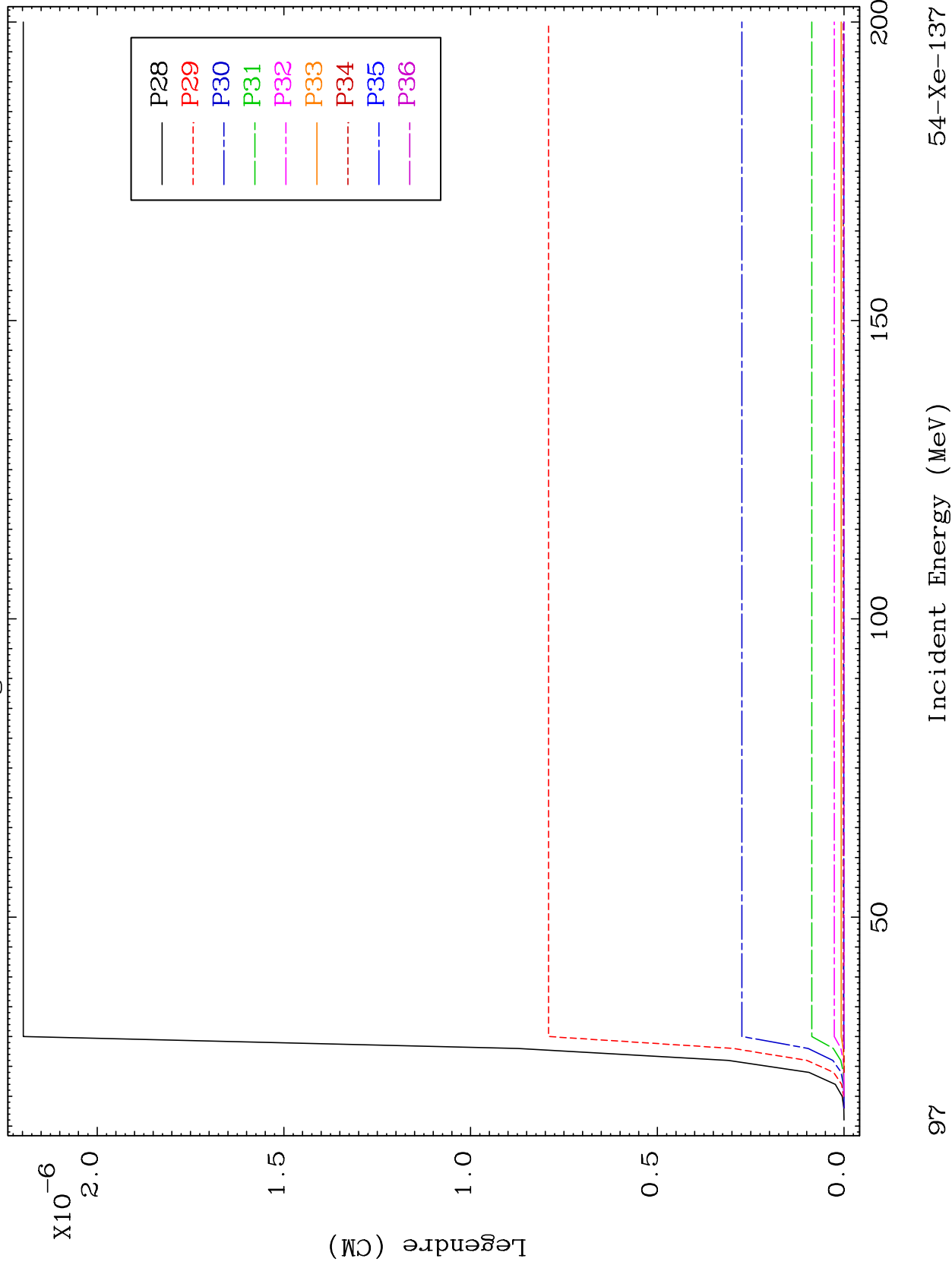




MAT 5464

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

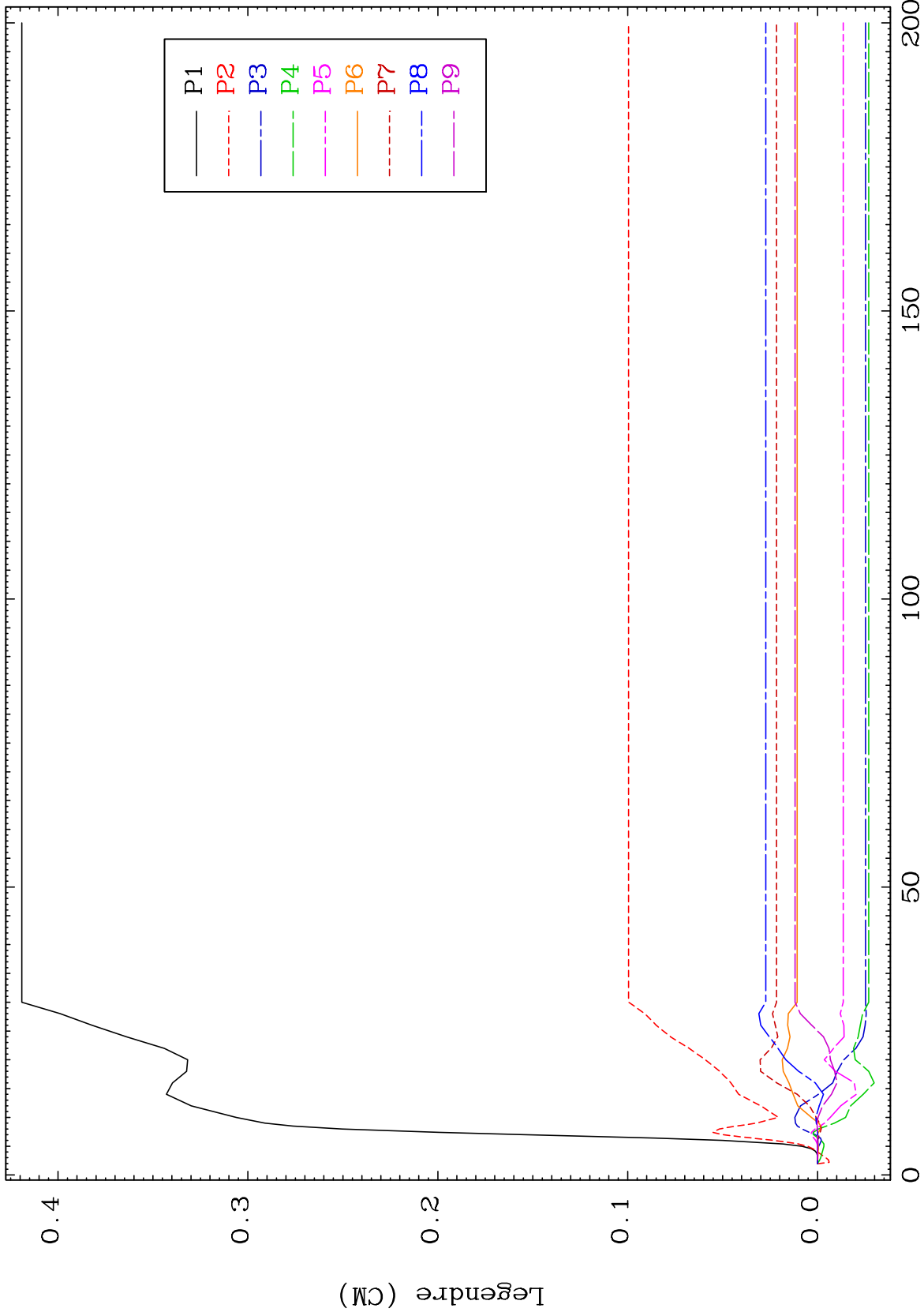
54-Xe-137



MAT 5464

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

54-Xe-137



98

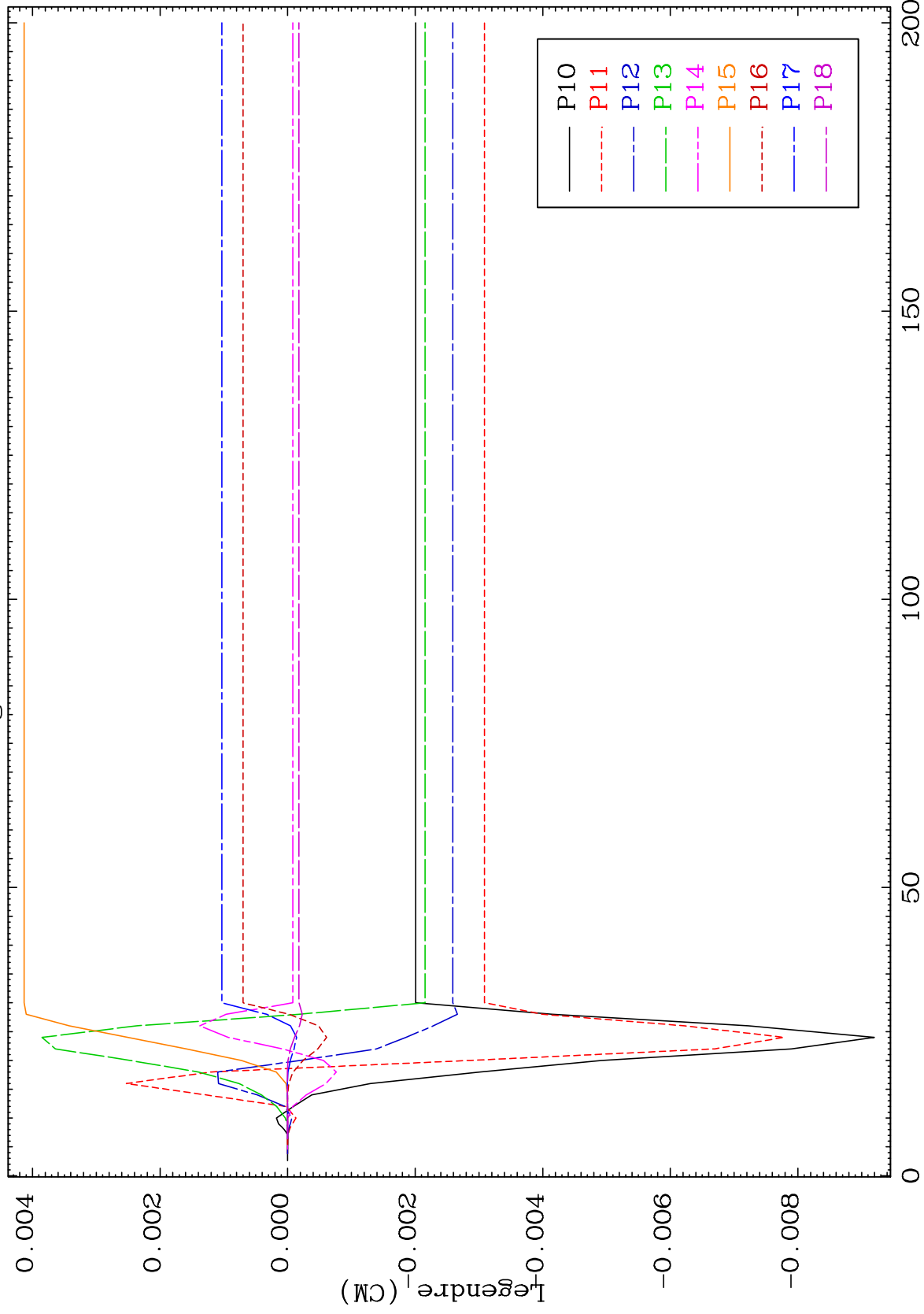
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



99

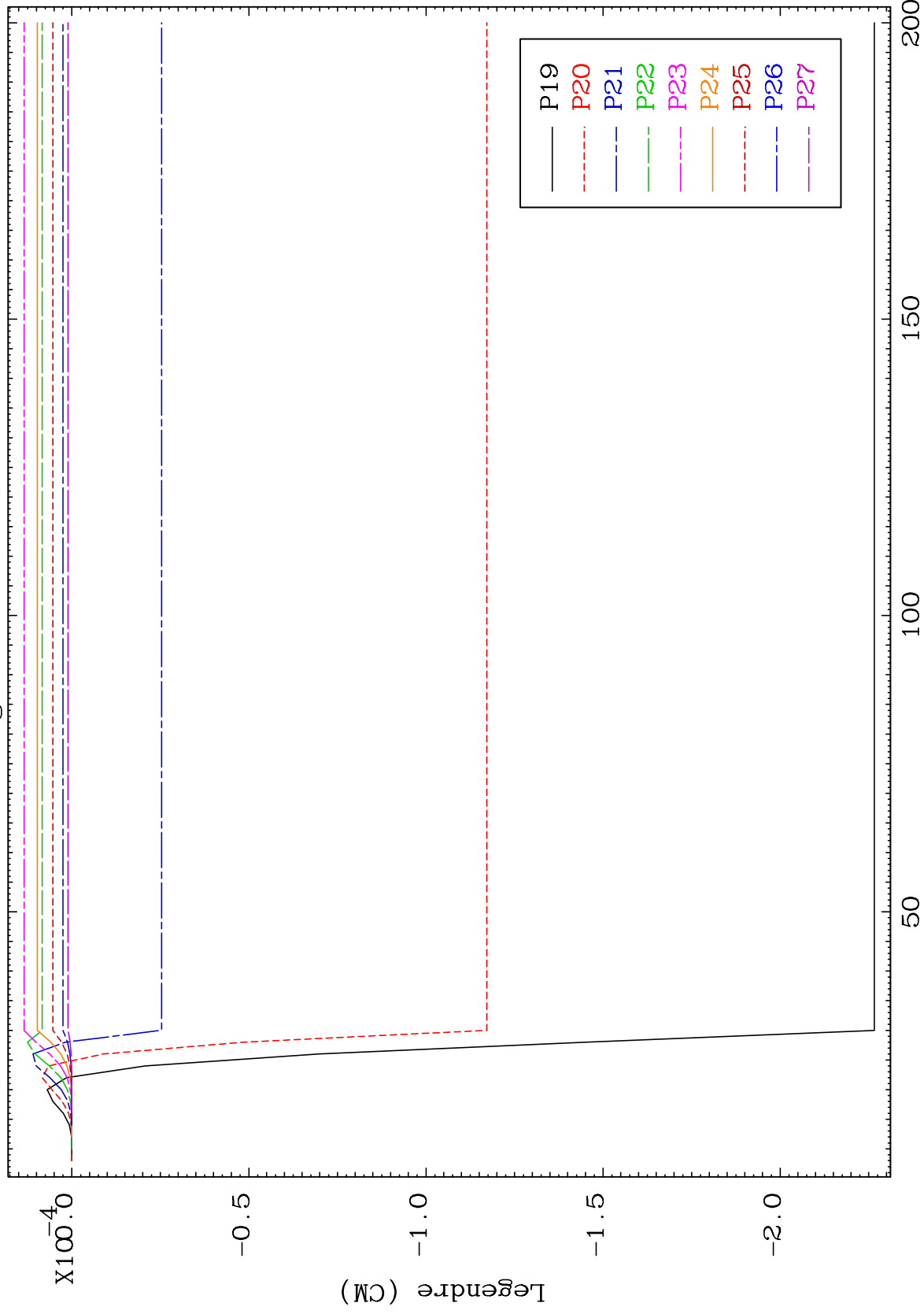
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



100

Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137

$\times 10^{-7}$

4

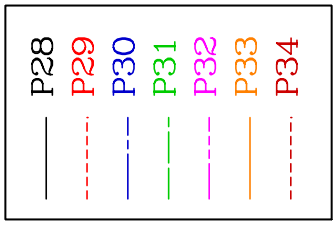
3

2

1

0

Legendre (CM)



50

100

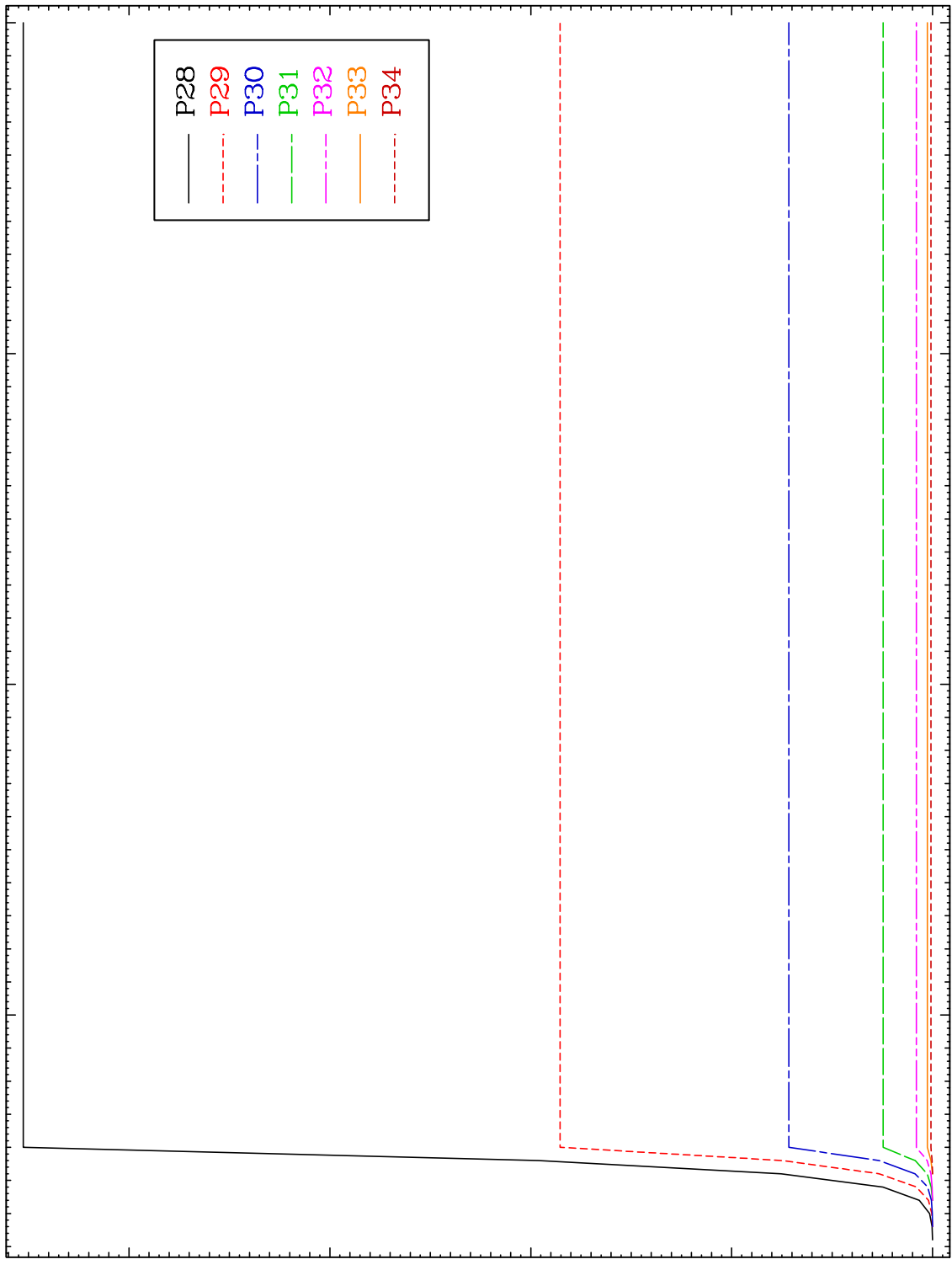
150

200

101

Incident Energy (MeV)

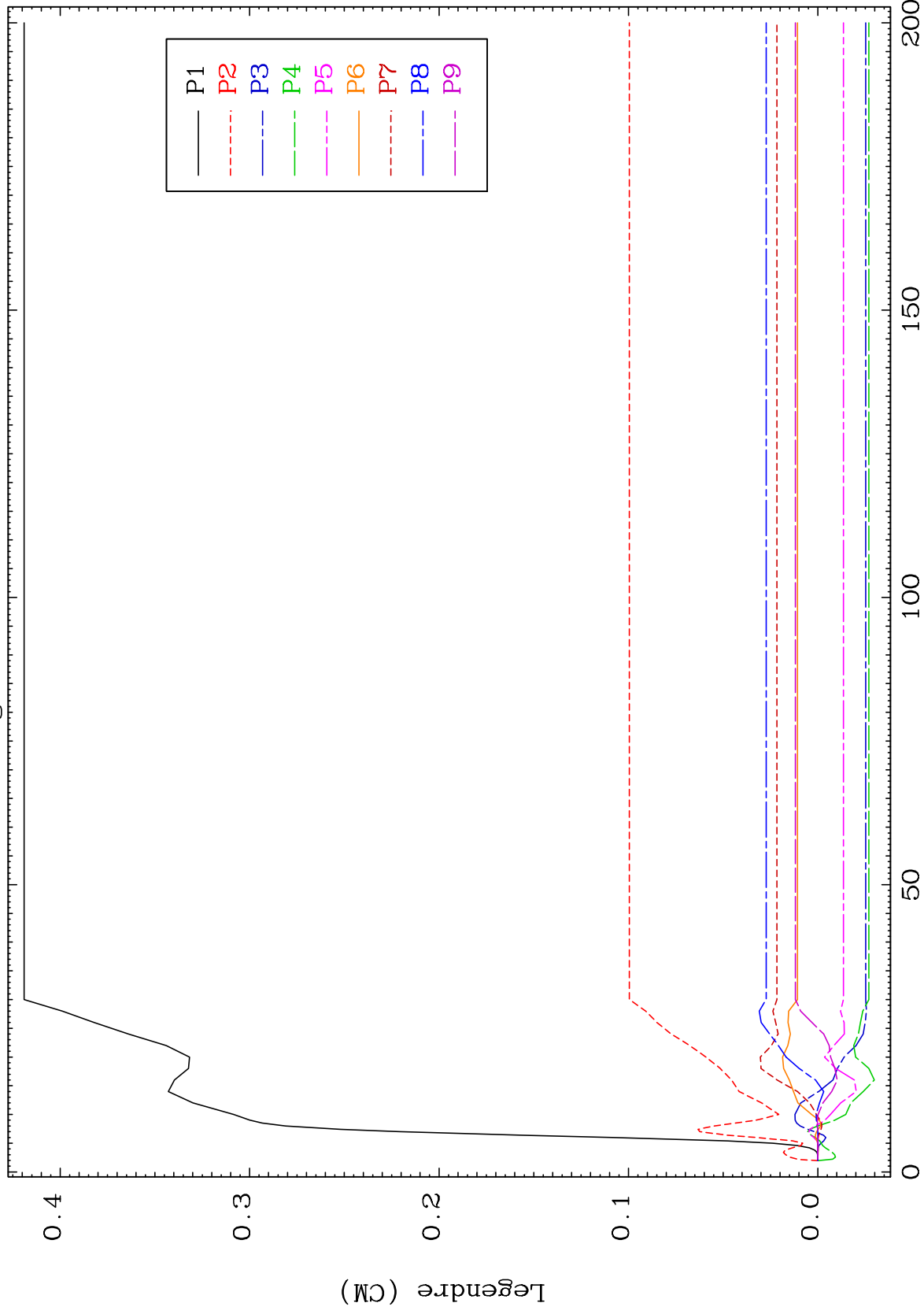
54-Xe-137



MAT 5464

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

54-Xe-137



54-Xe-137

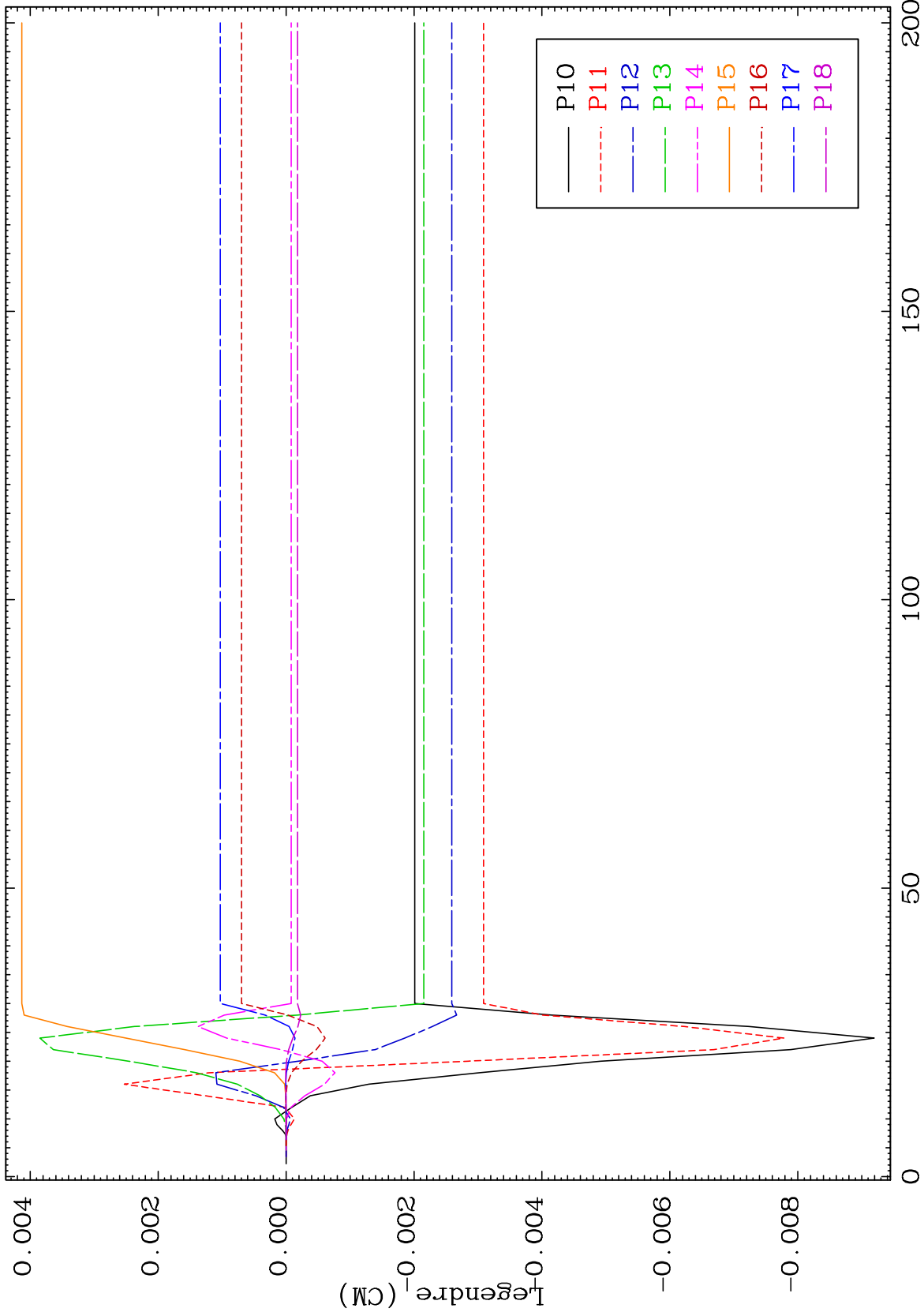
Incident Energy (MeV)

102

MAT 5464

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

54-Xe-137



103

Incident Energy (MeV)

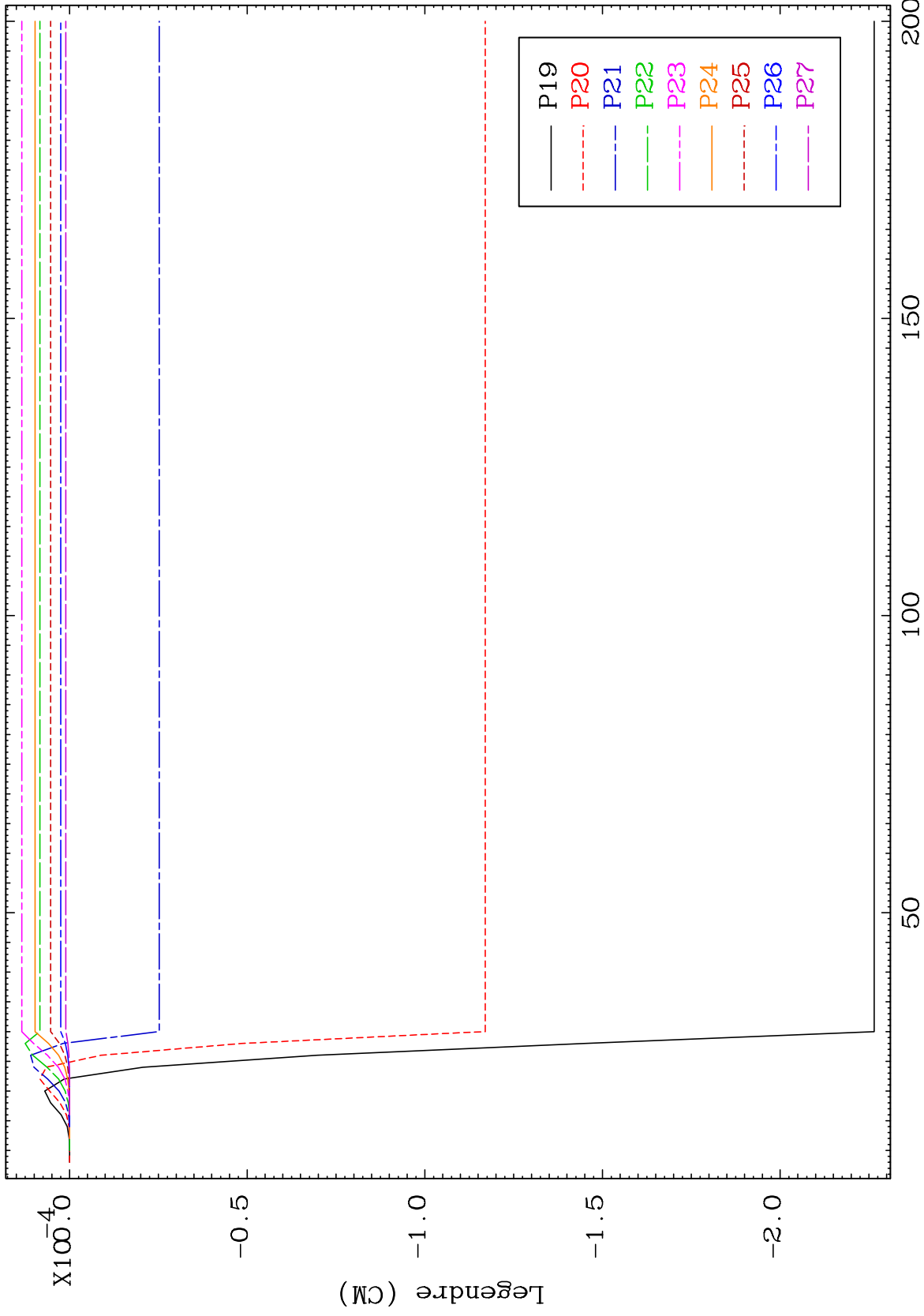
54-Xe-137



MAT 5464

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

54-Xe-137



104

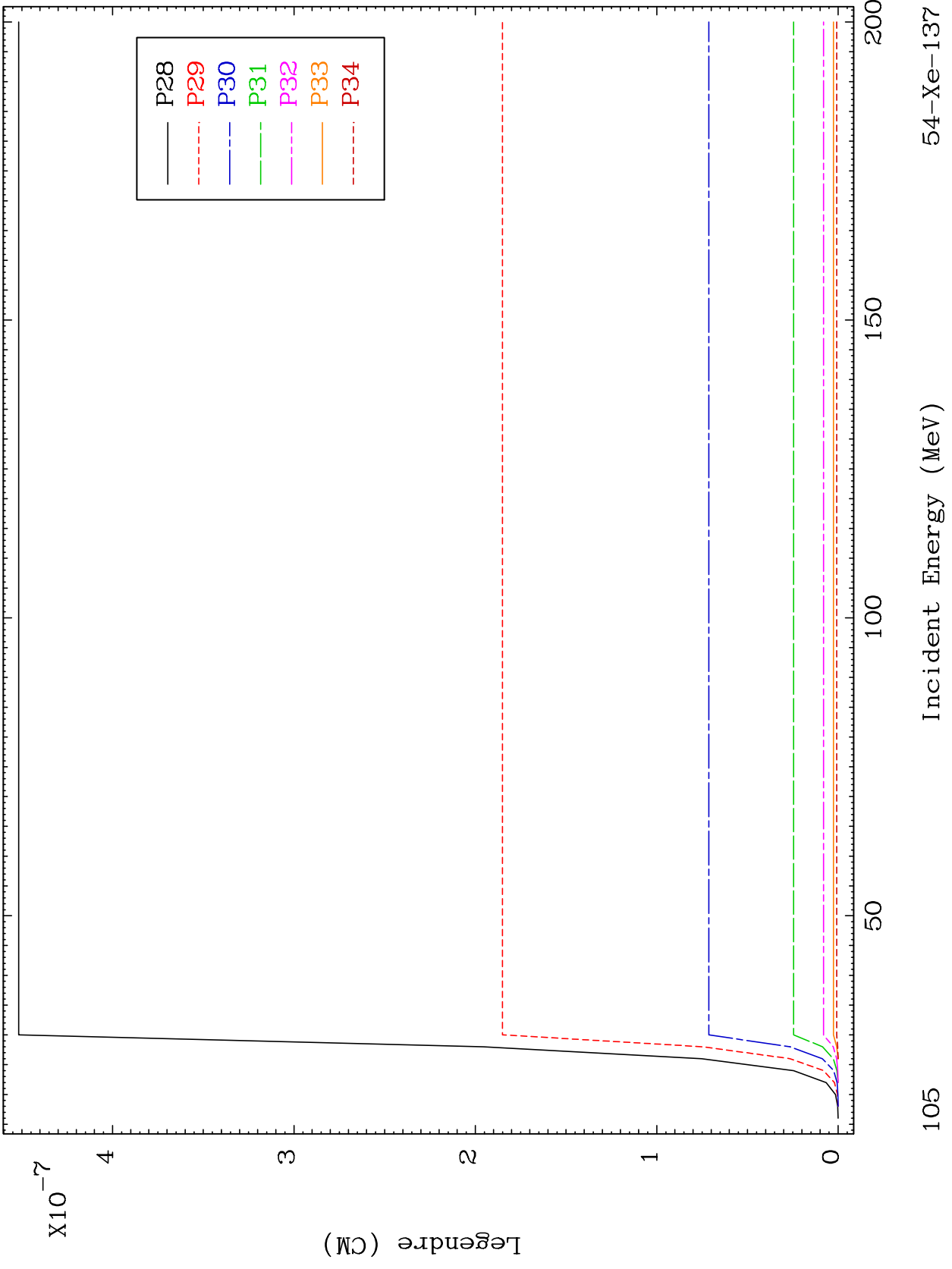
Incident Energy (MeV)

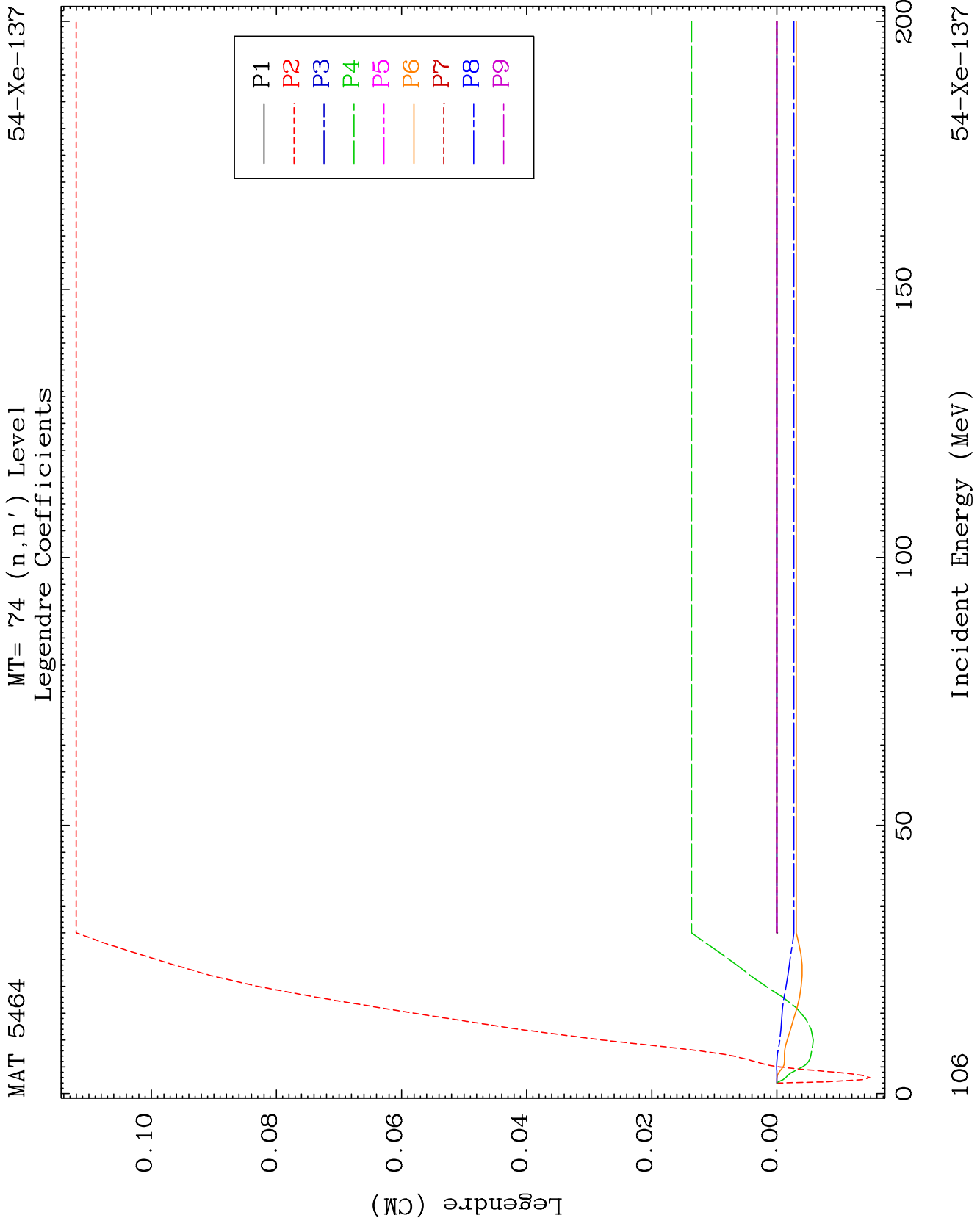
54-Xe-137

MAT 5464

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

54-Xe-137

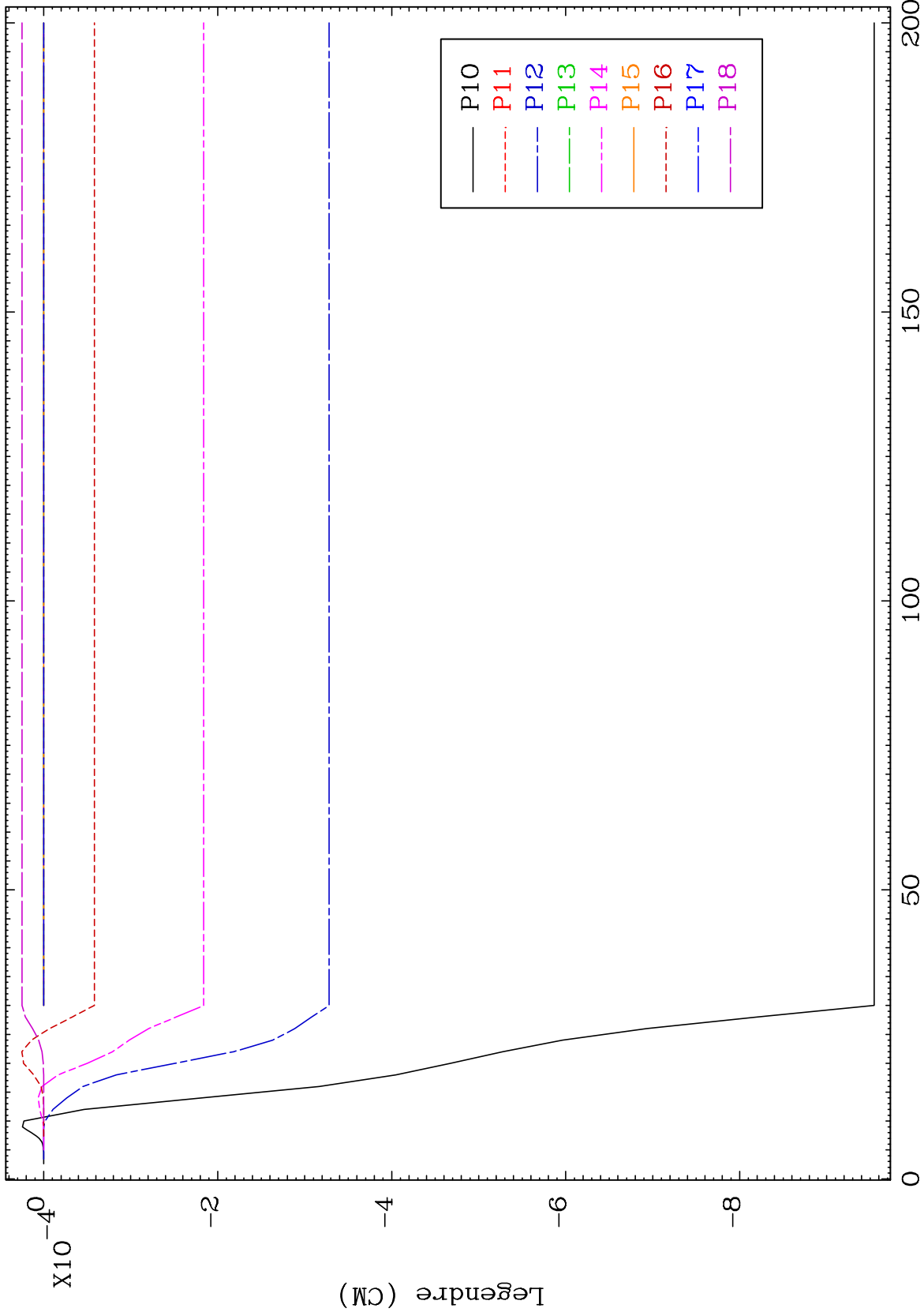




MAT 5464

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

54-Xe-137



107

Incident Energy (MeV)

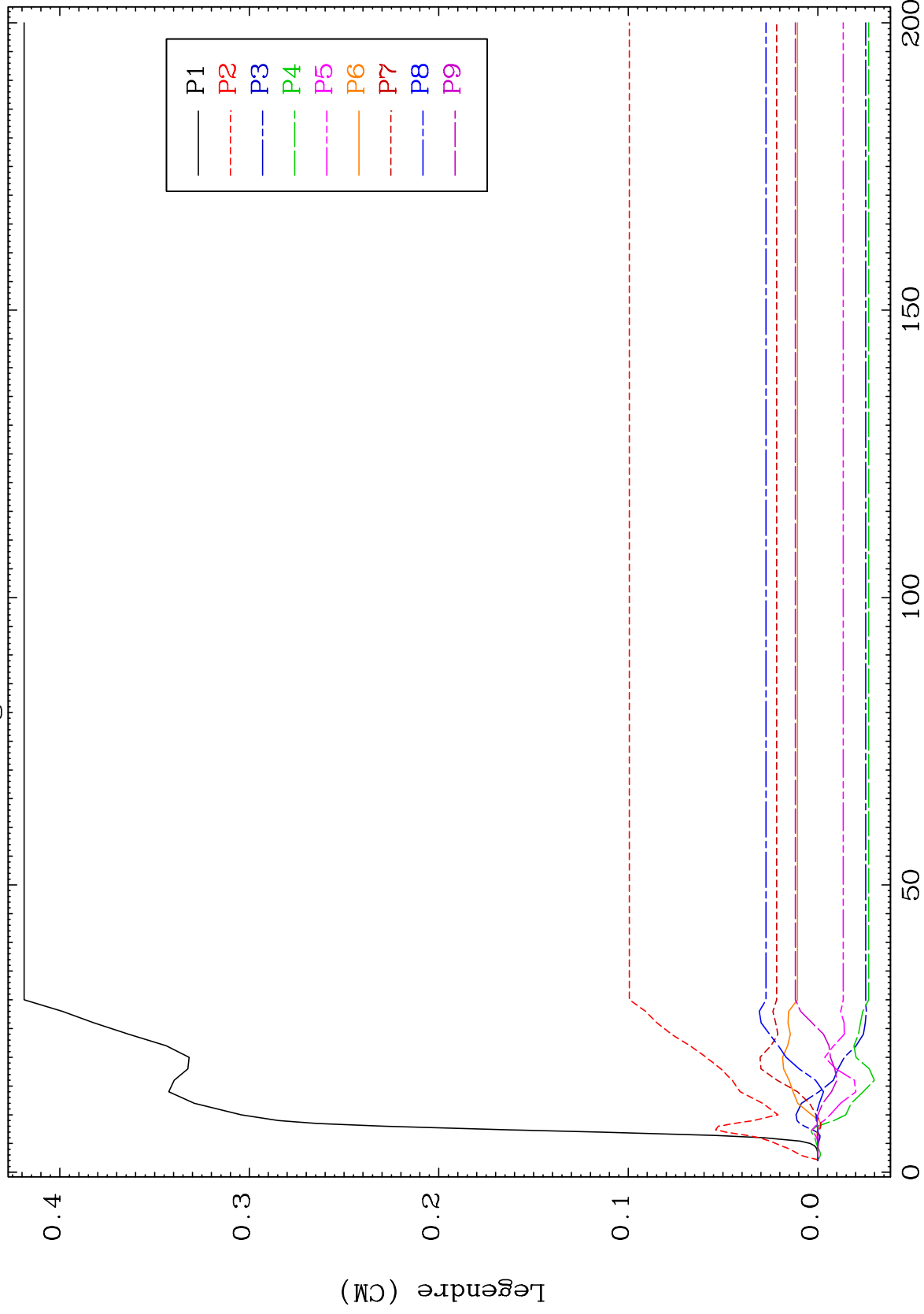
54-Xe-137



MAT 5464

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

54-Xe-137



54-Xe-137

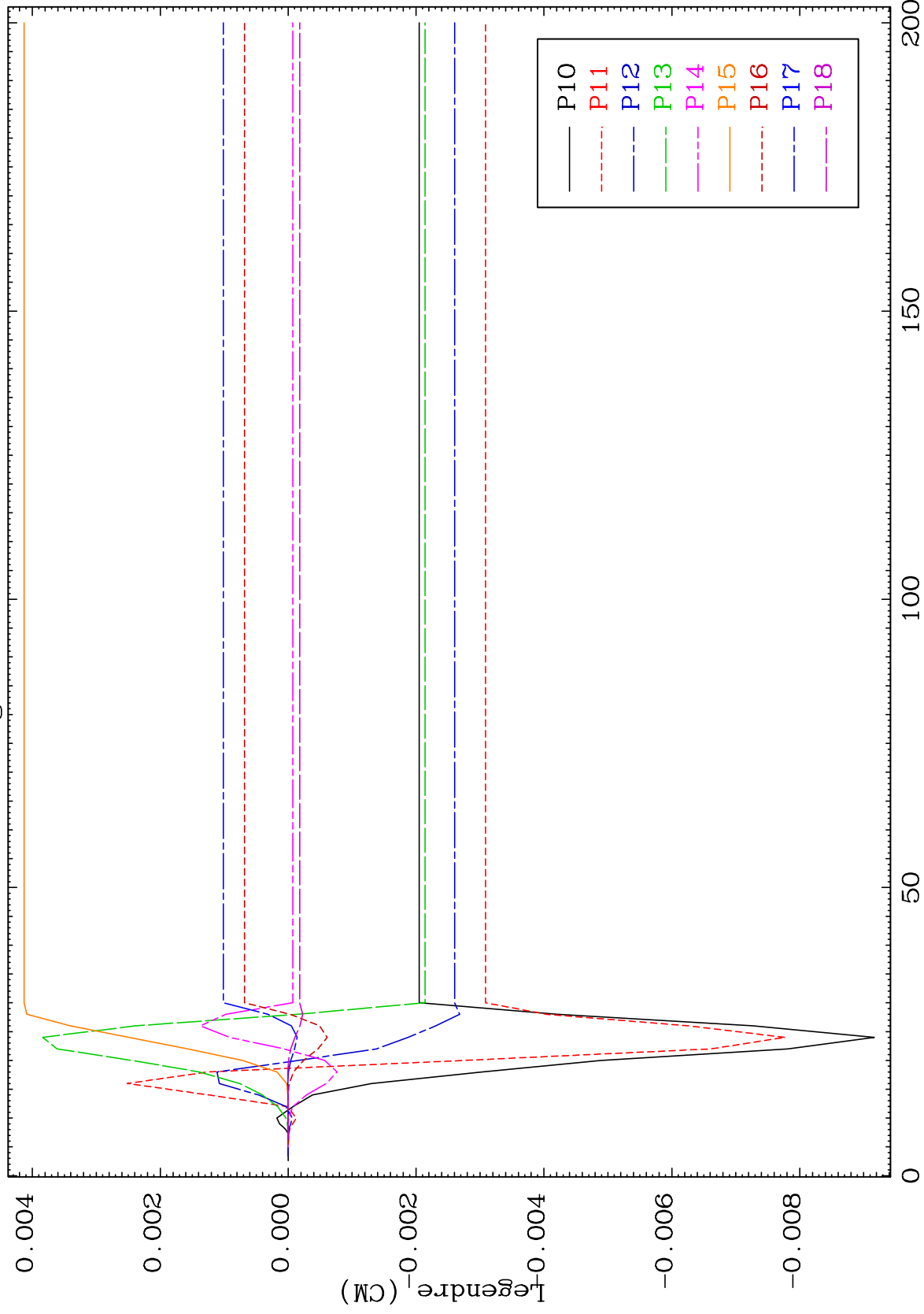
Incident Energy (MeV)

109

MAT 5464

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

54-Xe-137



110

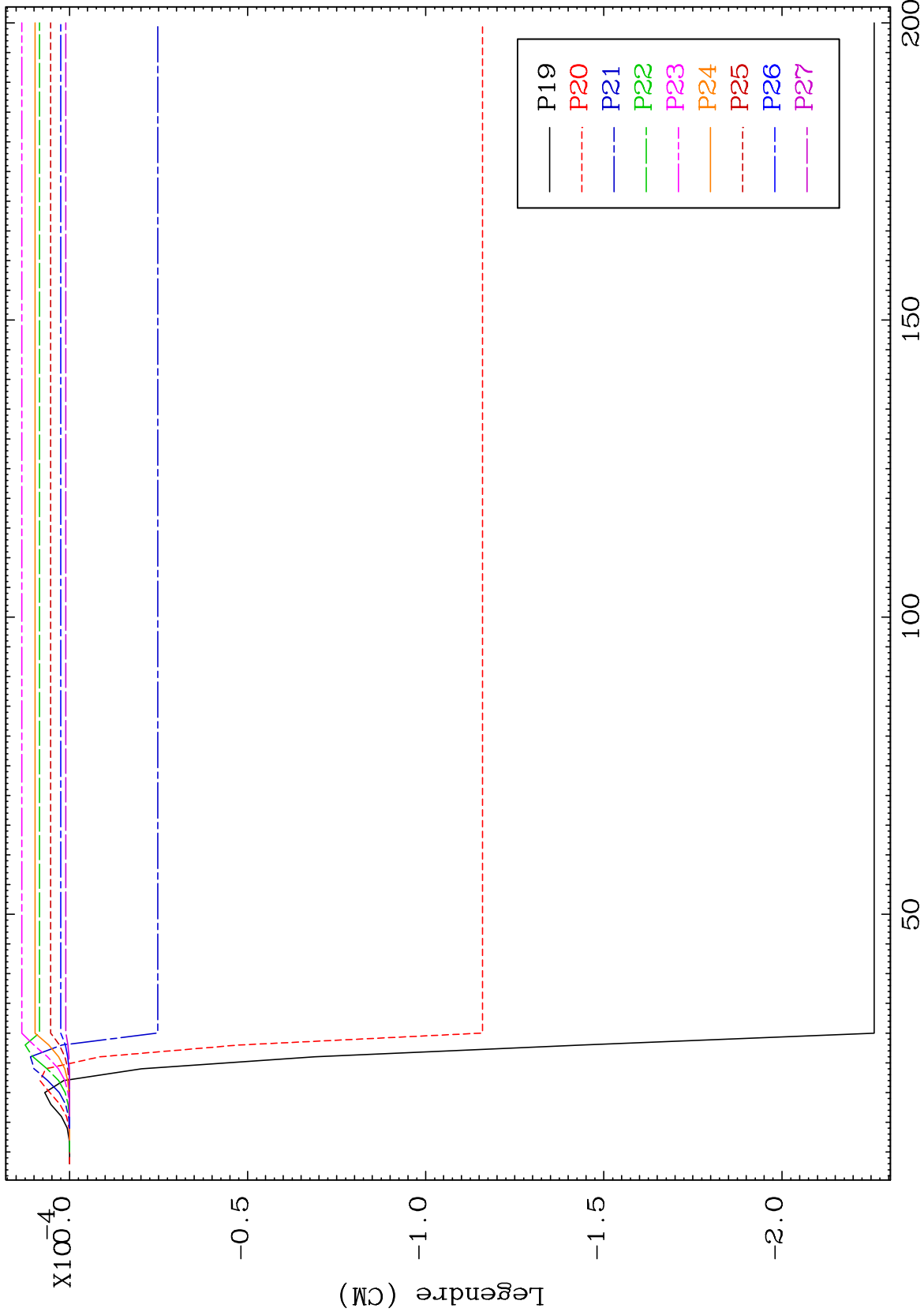
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



111

Incident Energy (MeV)

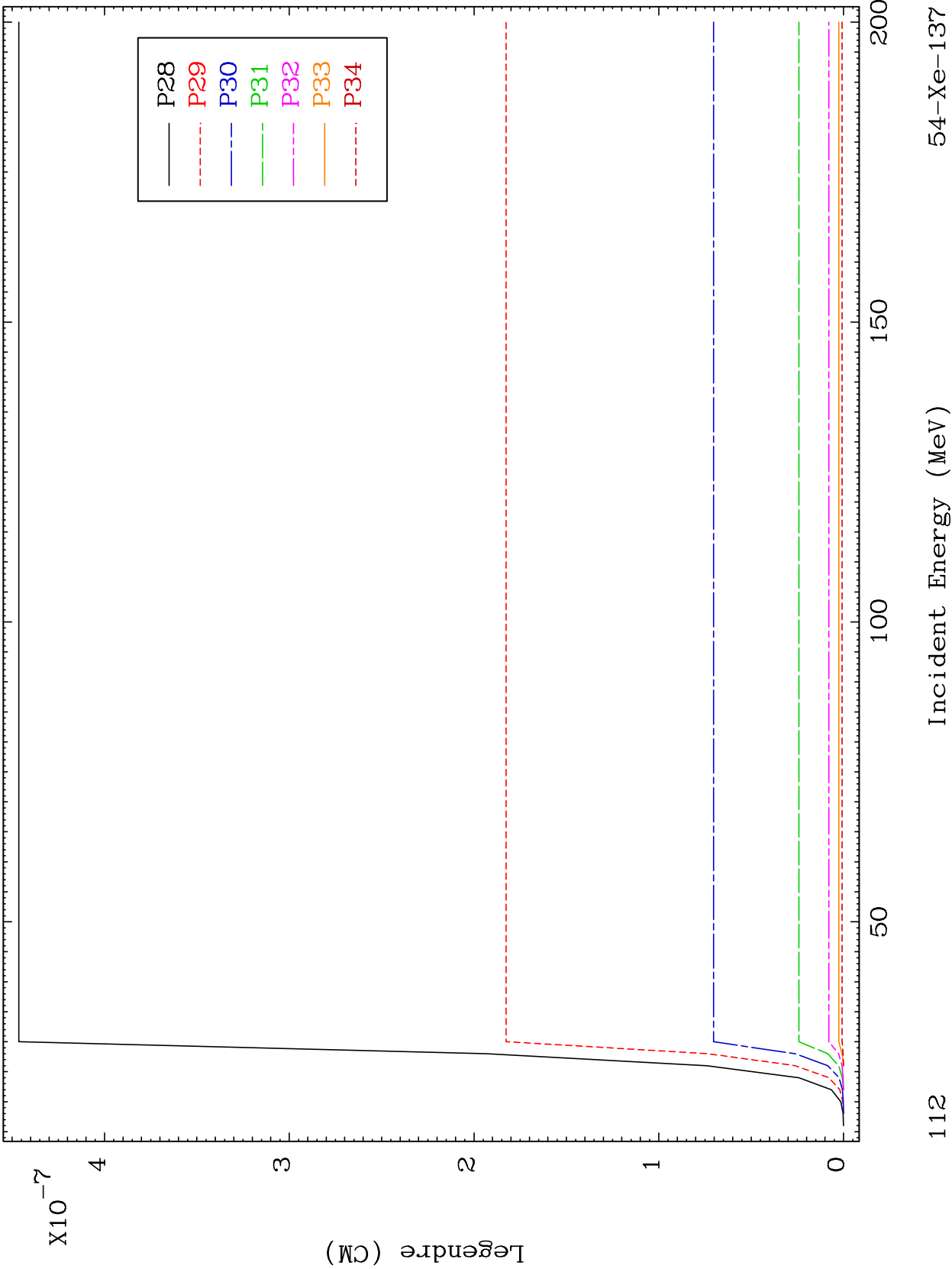
54-Xe-137



MAT 5464

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

54-Xe-137



112

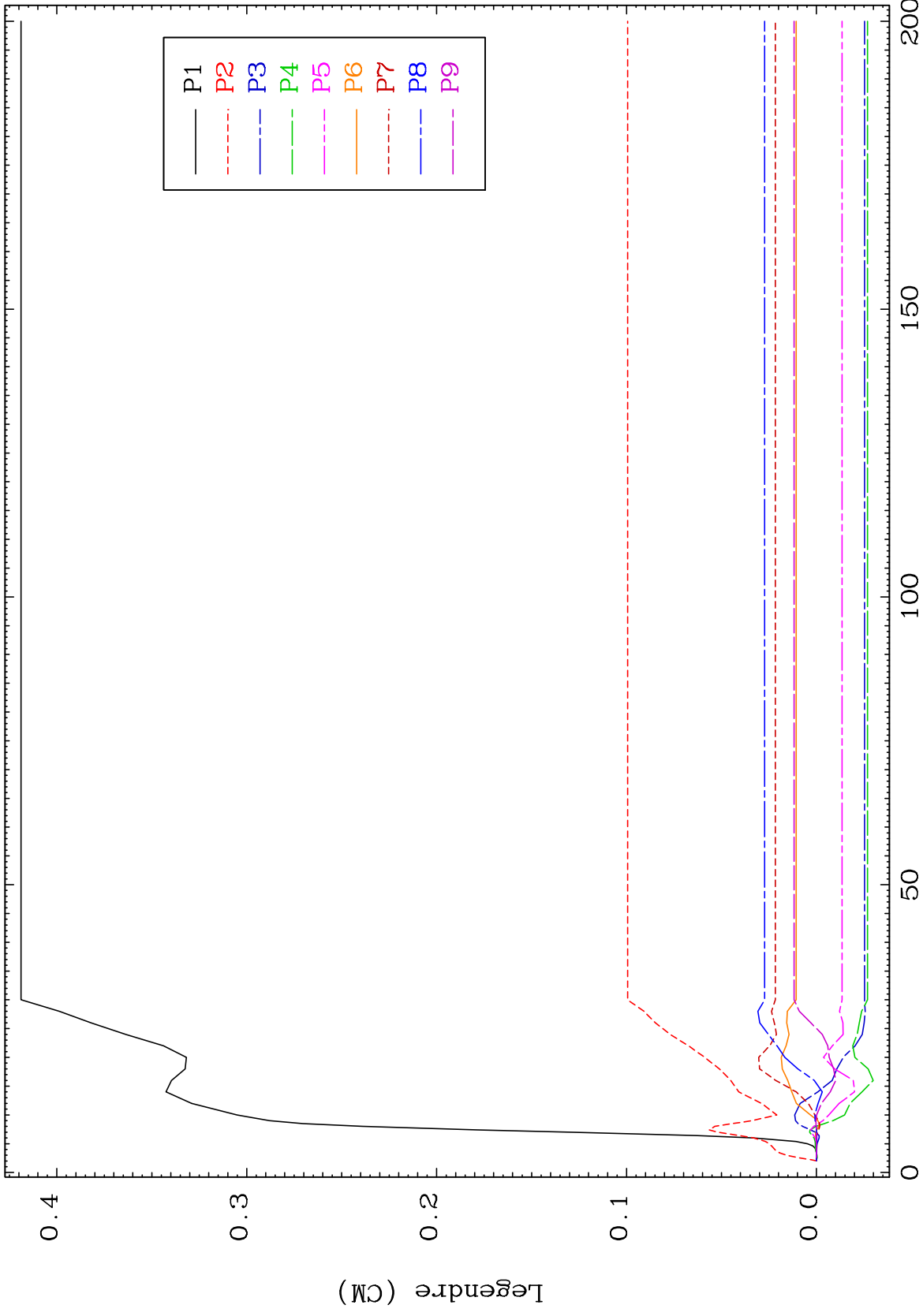
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



113

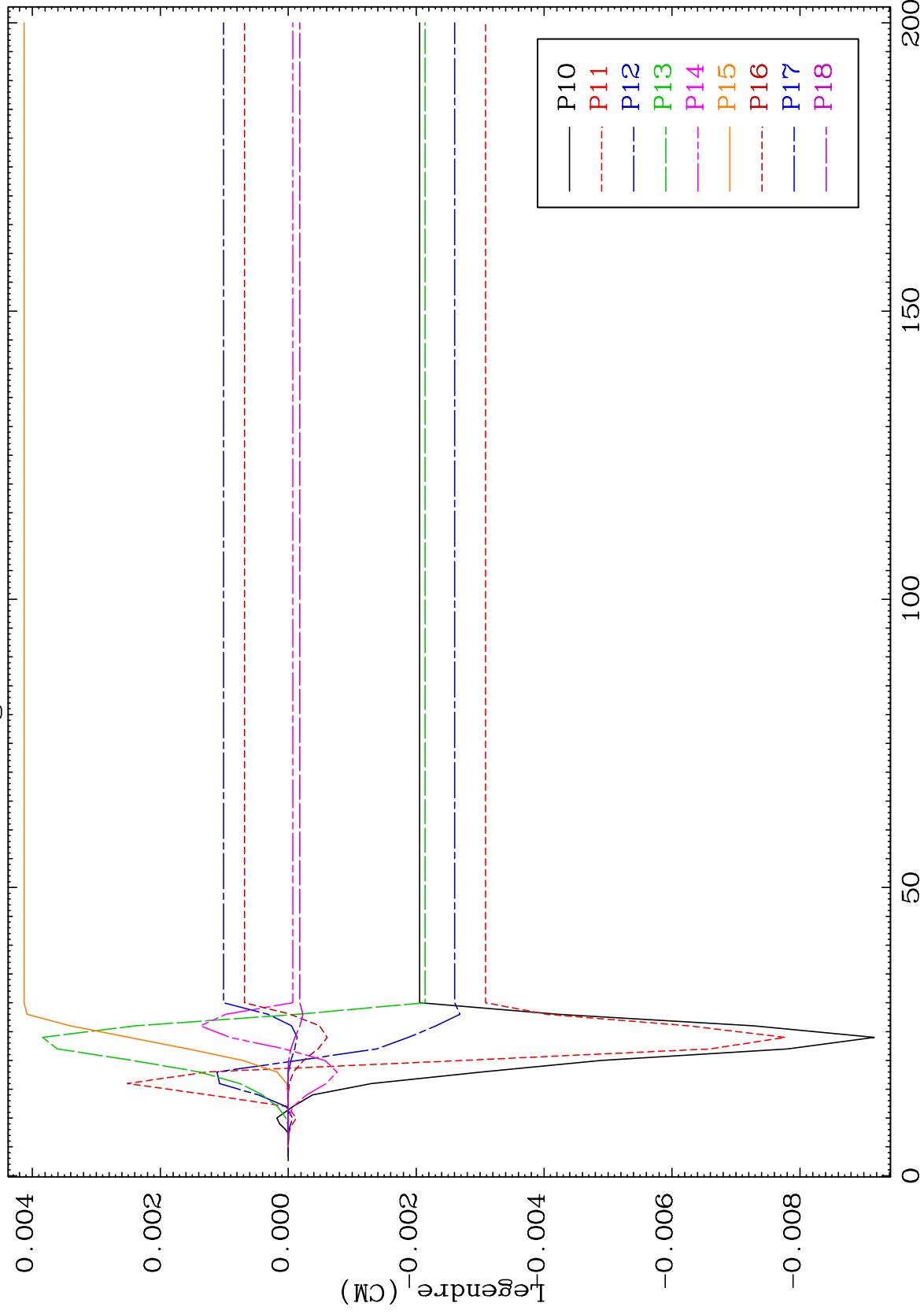
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



114

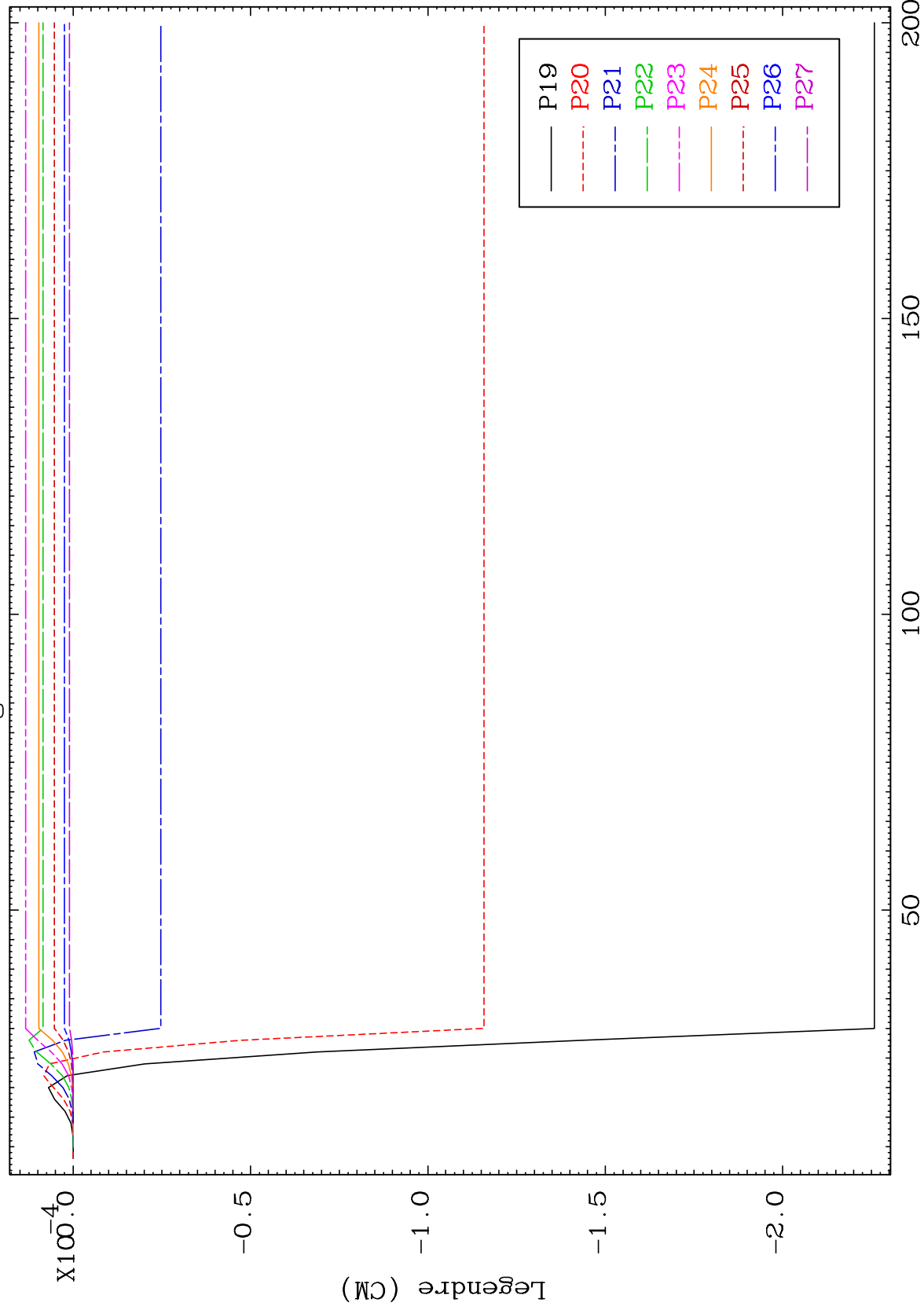
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



115

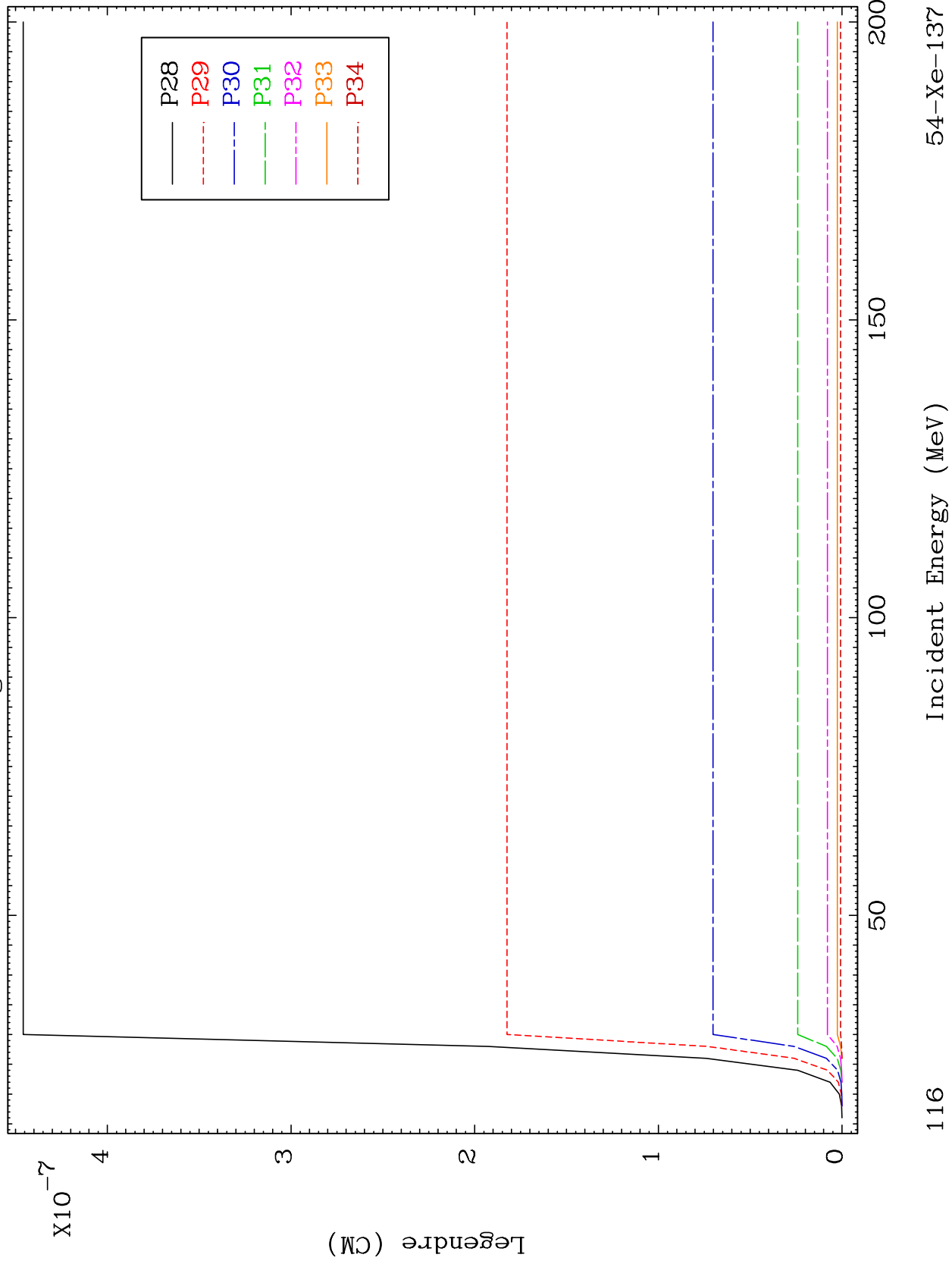
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



116

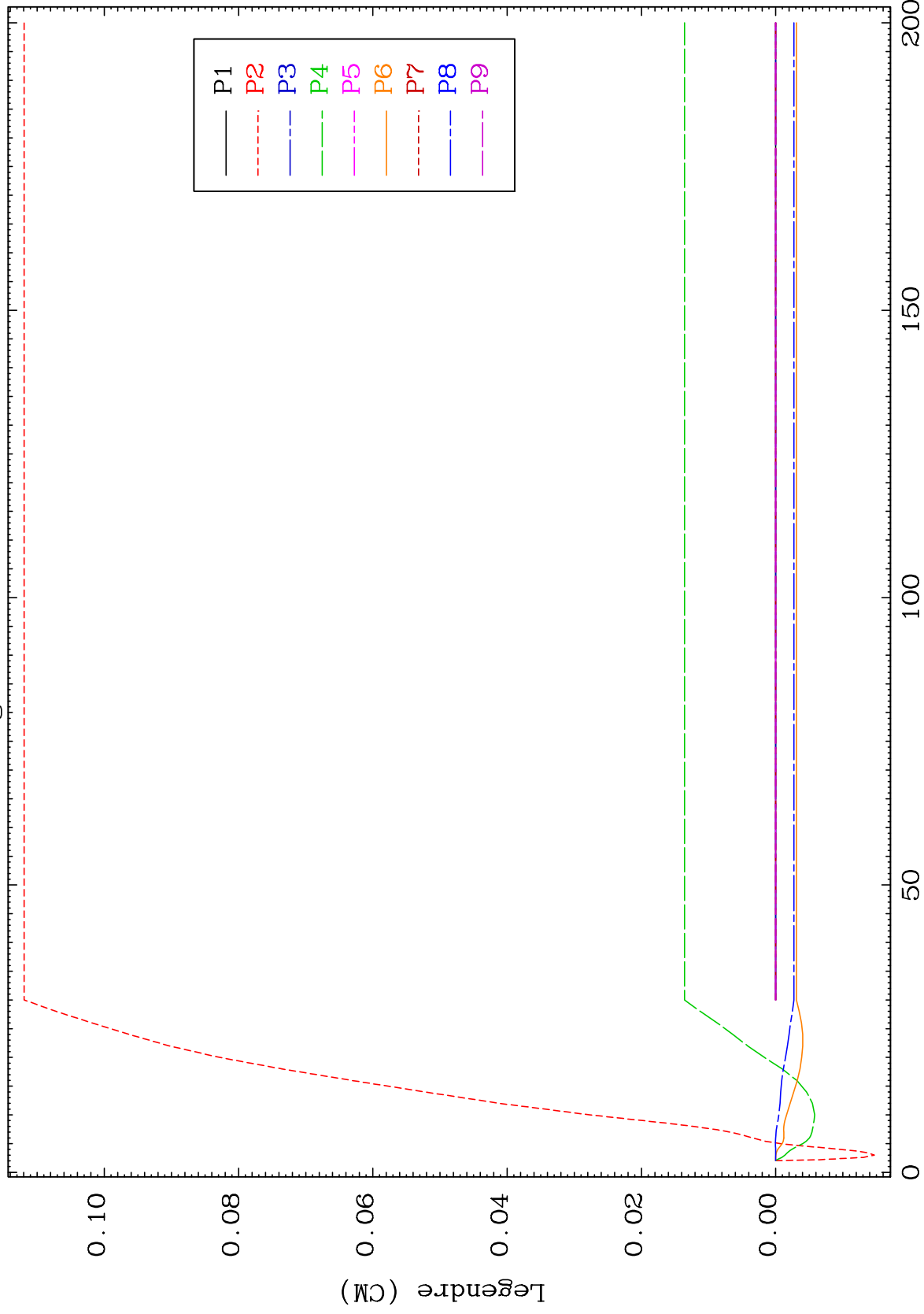
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



117

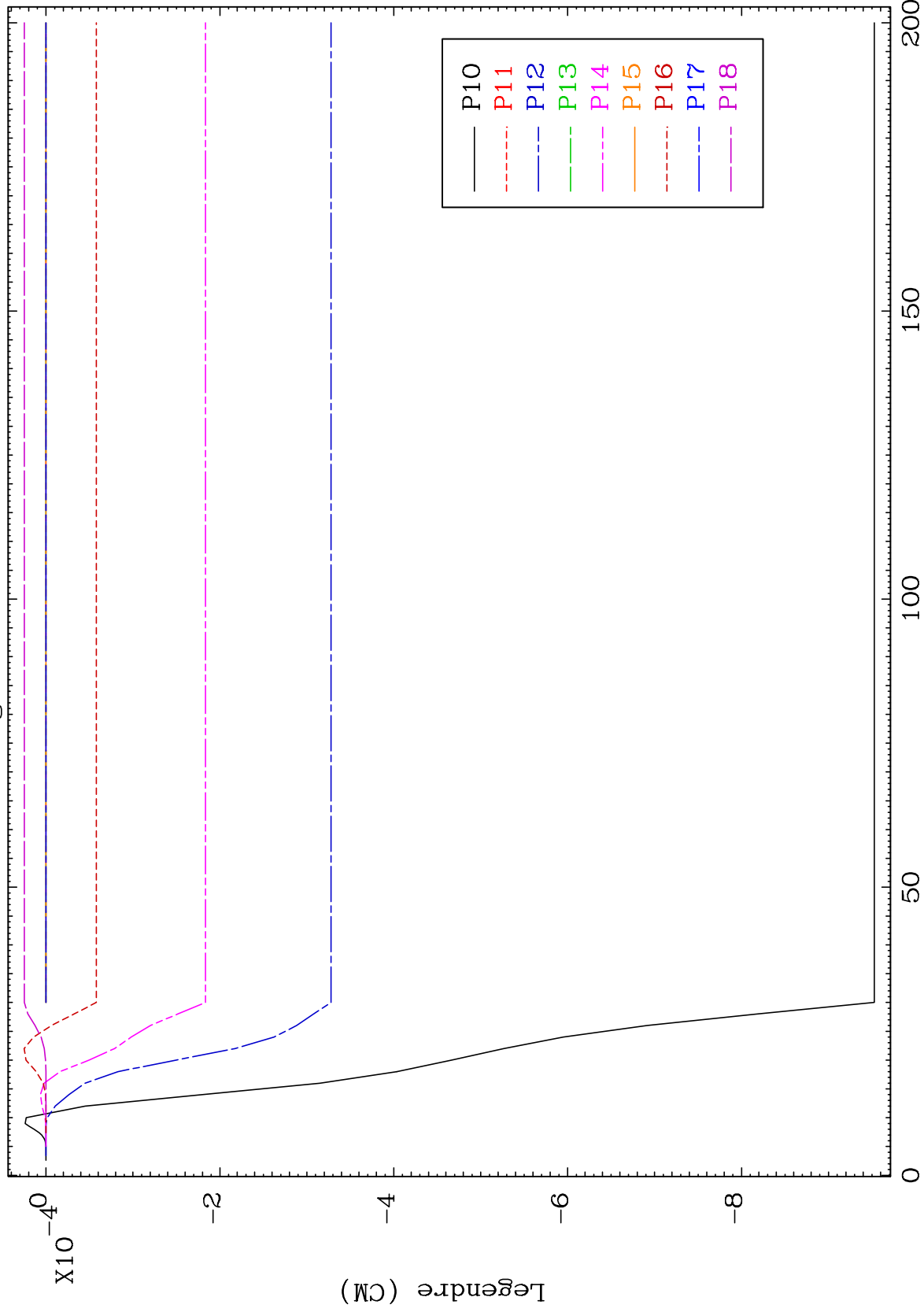
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



118

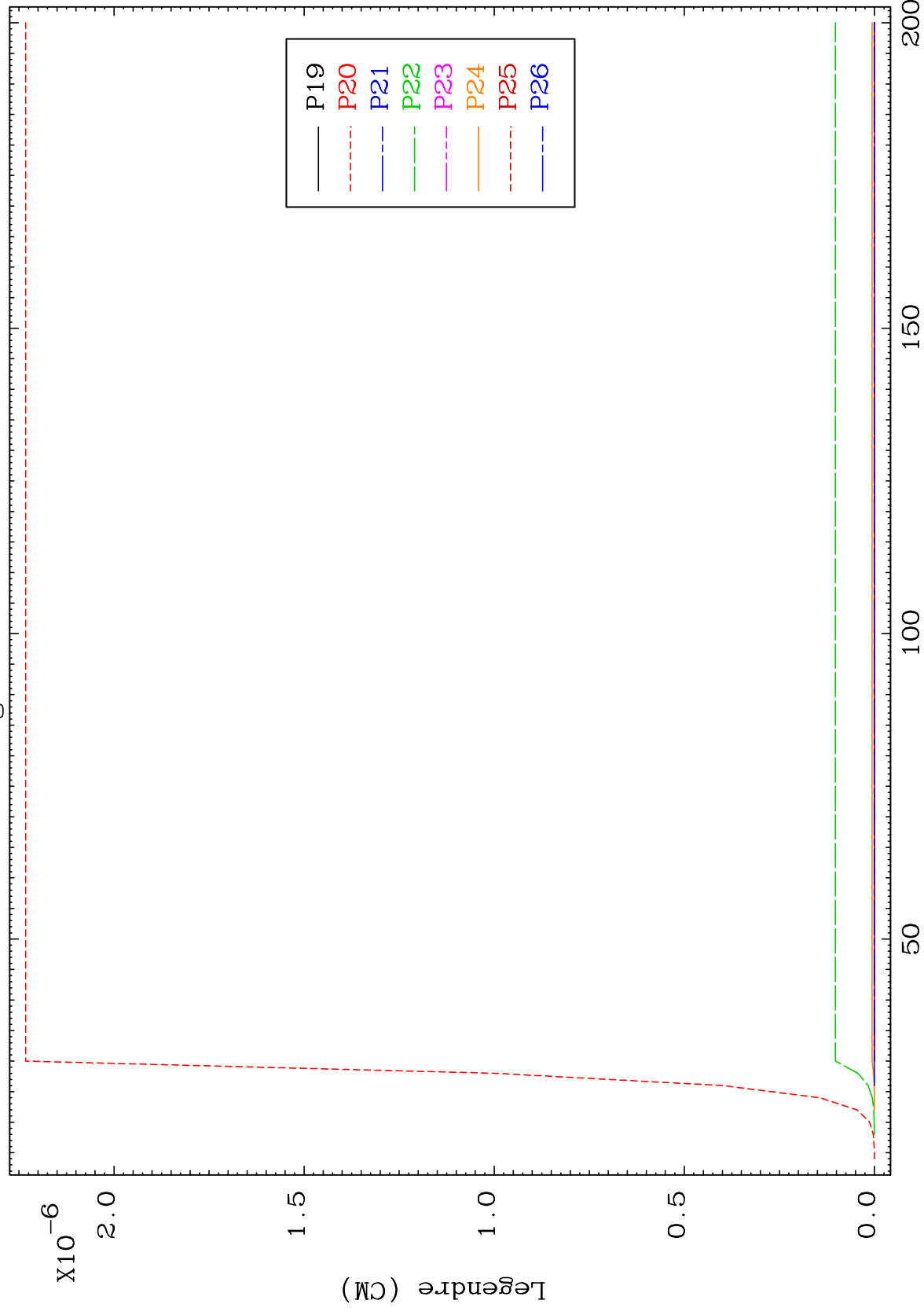
Incident Energy (MeV)

54-Xe-137

MAT 5464

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

54-Xe-137



119

Incident Energy (MeV)

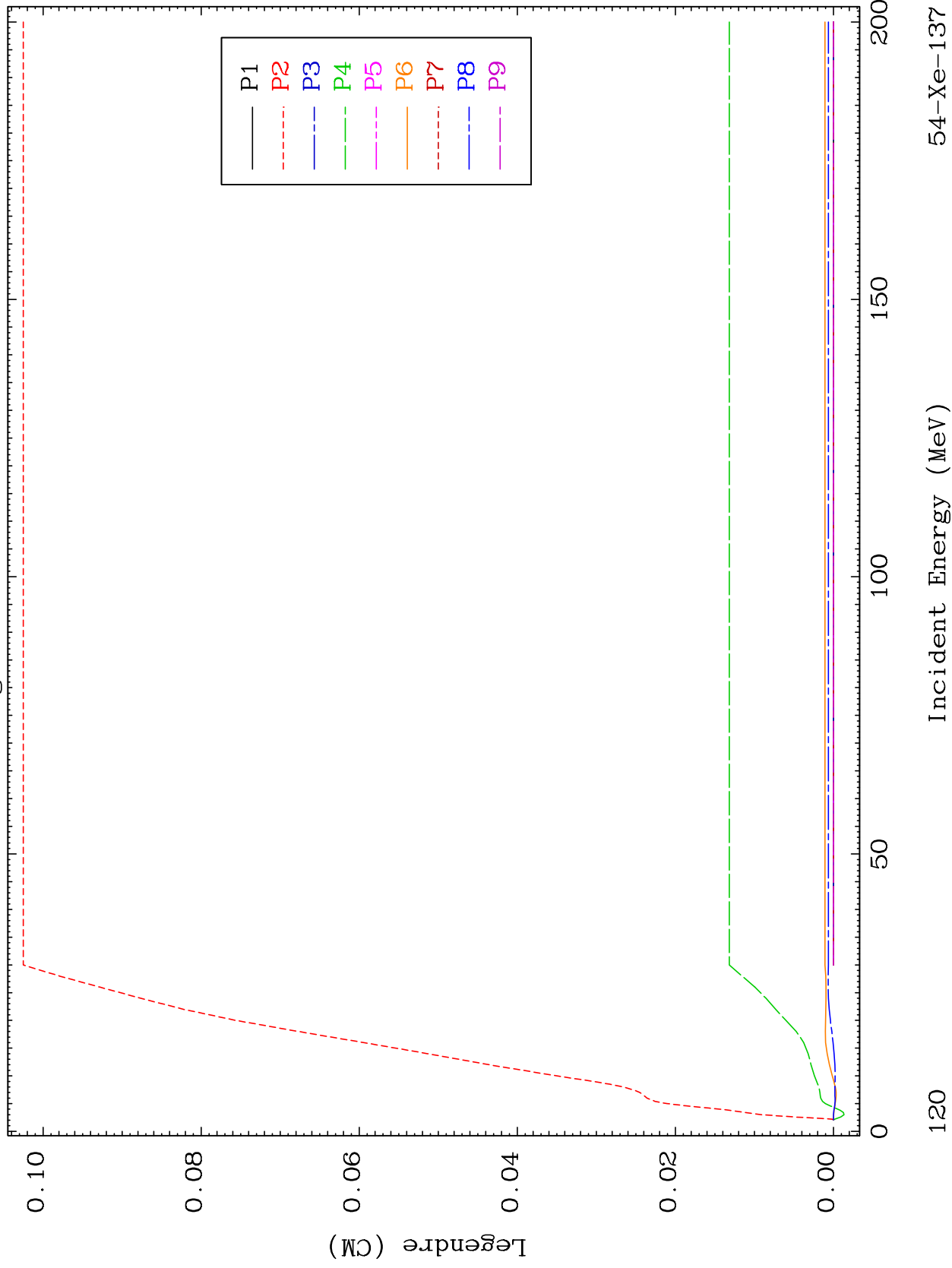
54-Xe-137



MAT 5464

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

54-Xe-137



54-Xe-137

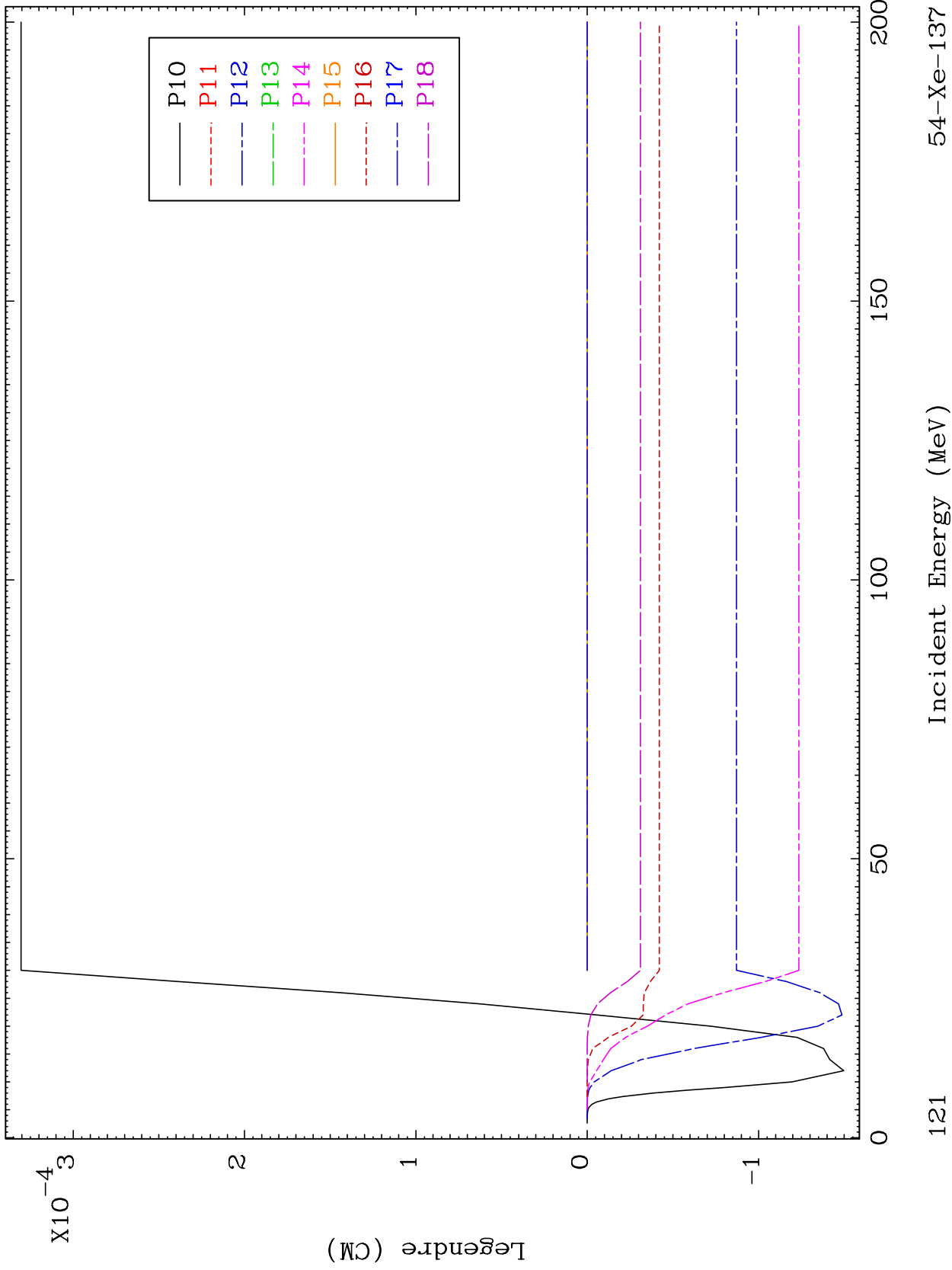
Incident Energy (MeV)

120

MAT 5464

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

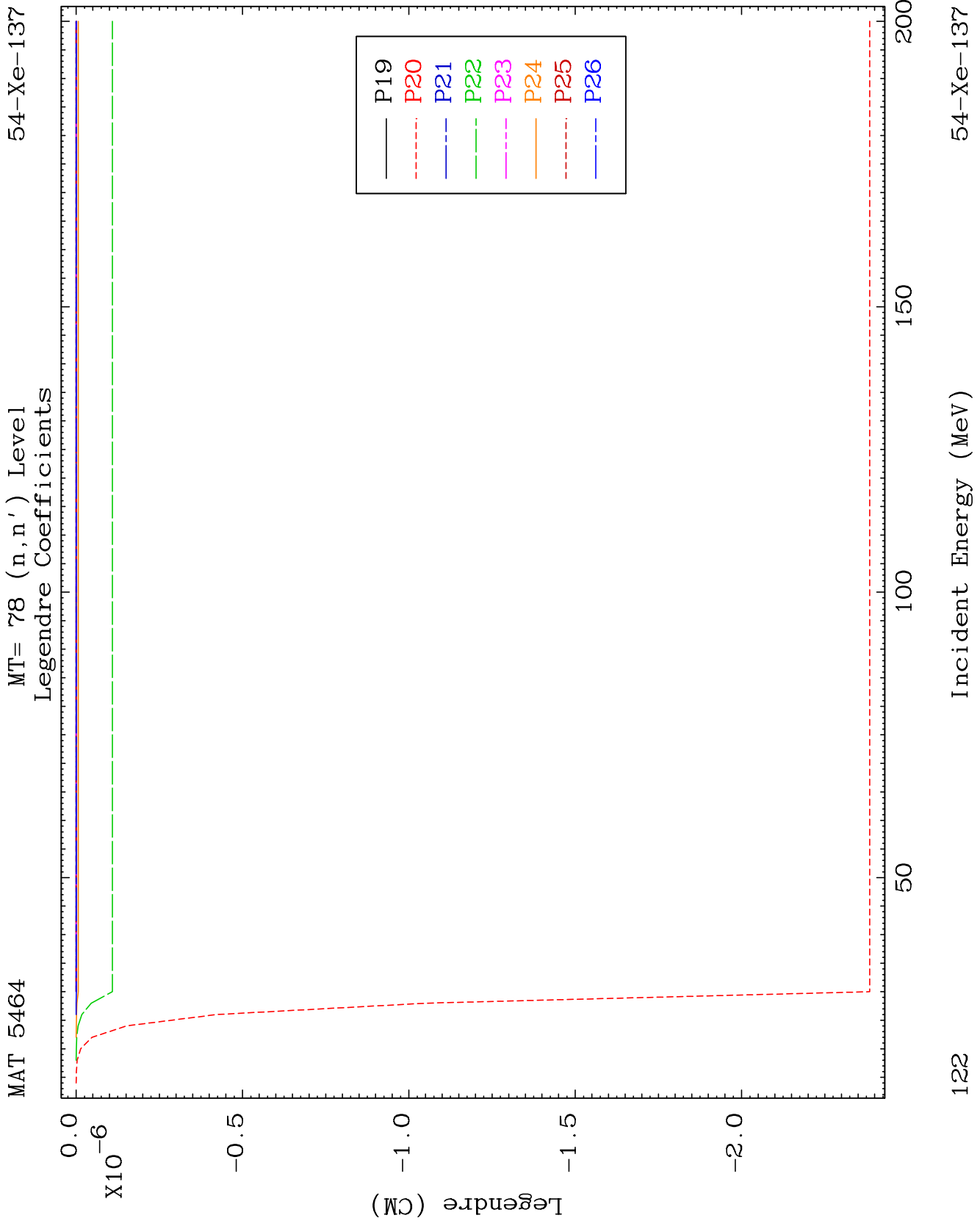
54-Xe-137



121

Incident Energy (MeV)

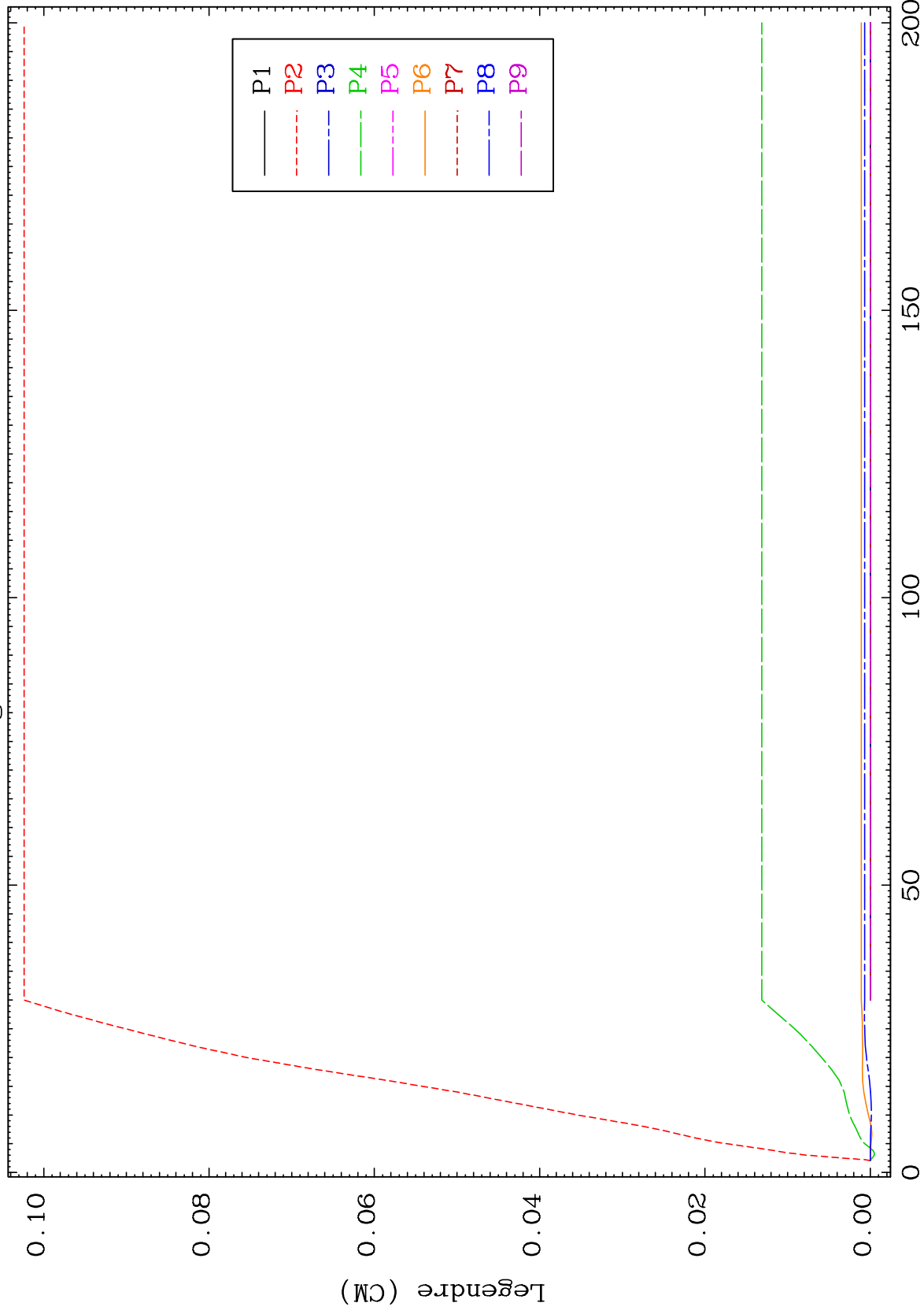
54-Xe-137



MAT 5464

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

54-Xe-137



123

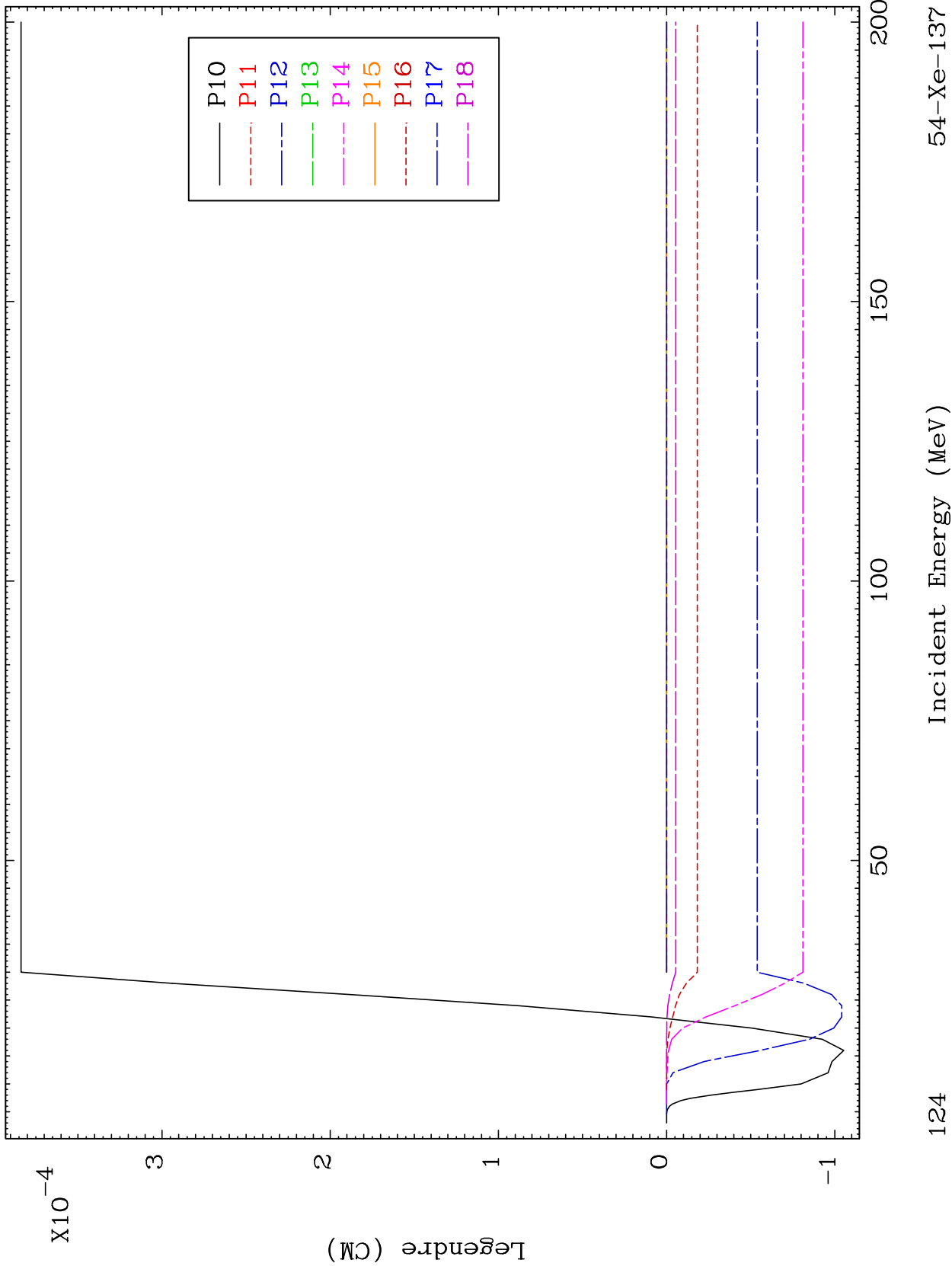
Incident Energy (MeV)

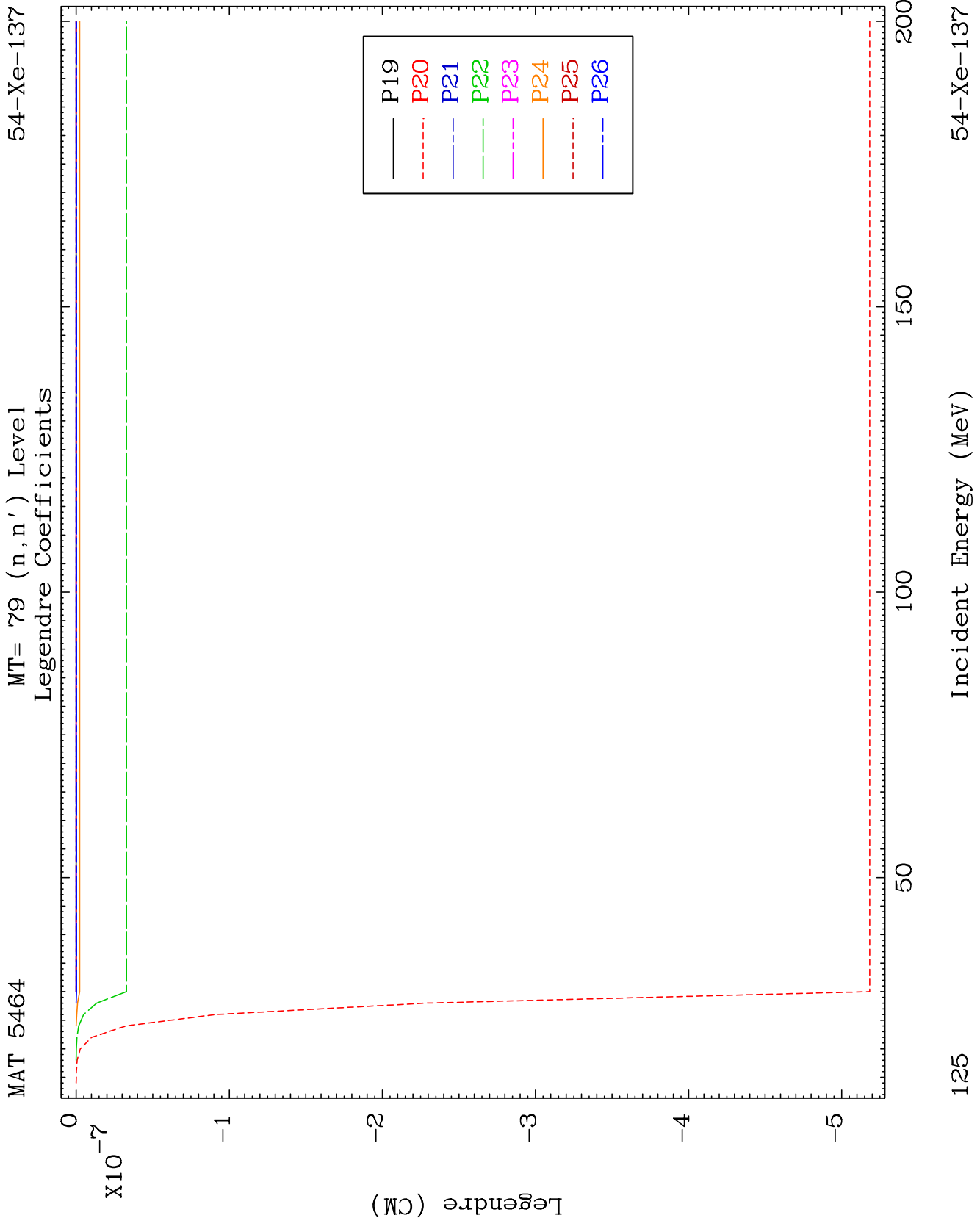
54-Xe-137

MAT 5464

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

54-Xe-137

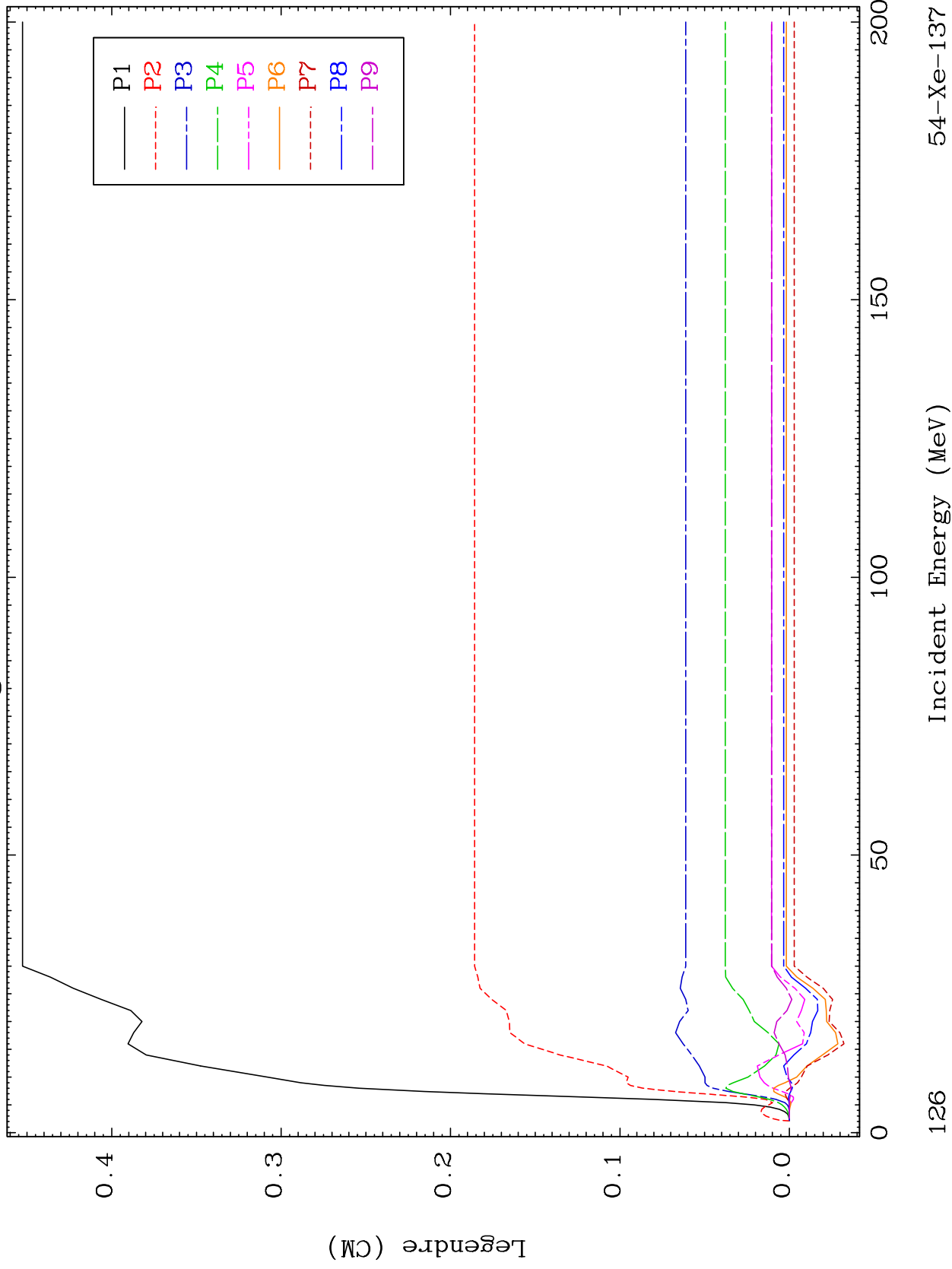




MAT 5464

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

54-Xe-137



54-Xe-137

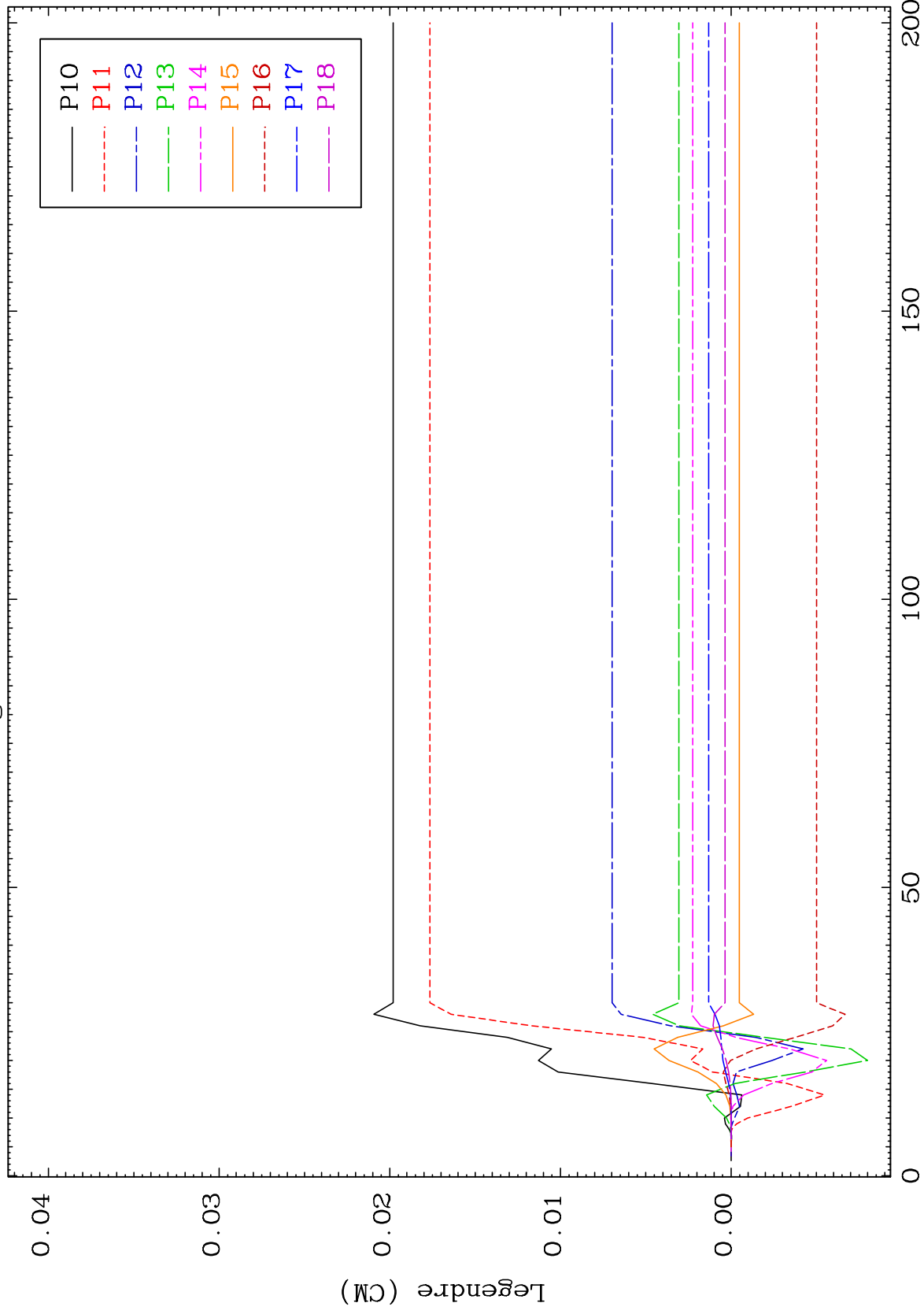
Incident Energy (MeV)

126

MAT 5464

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

54-Xe-137



127

Incident Energy (MeV)

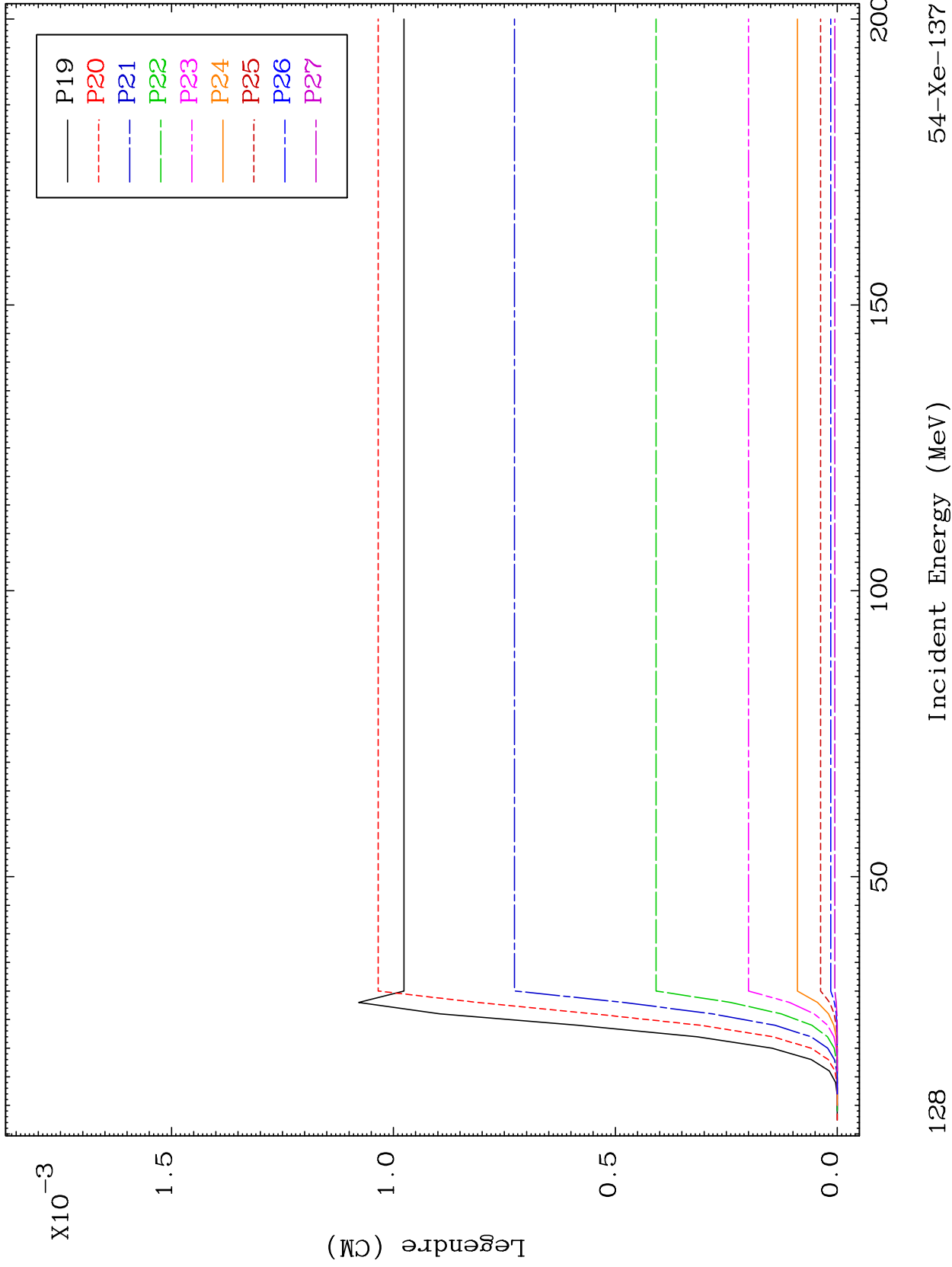
54-Xe-137



MAT 5464

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

54-Xe-137



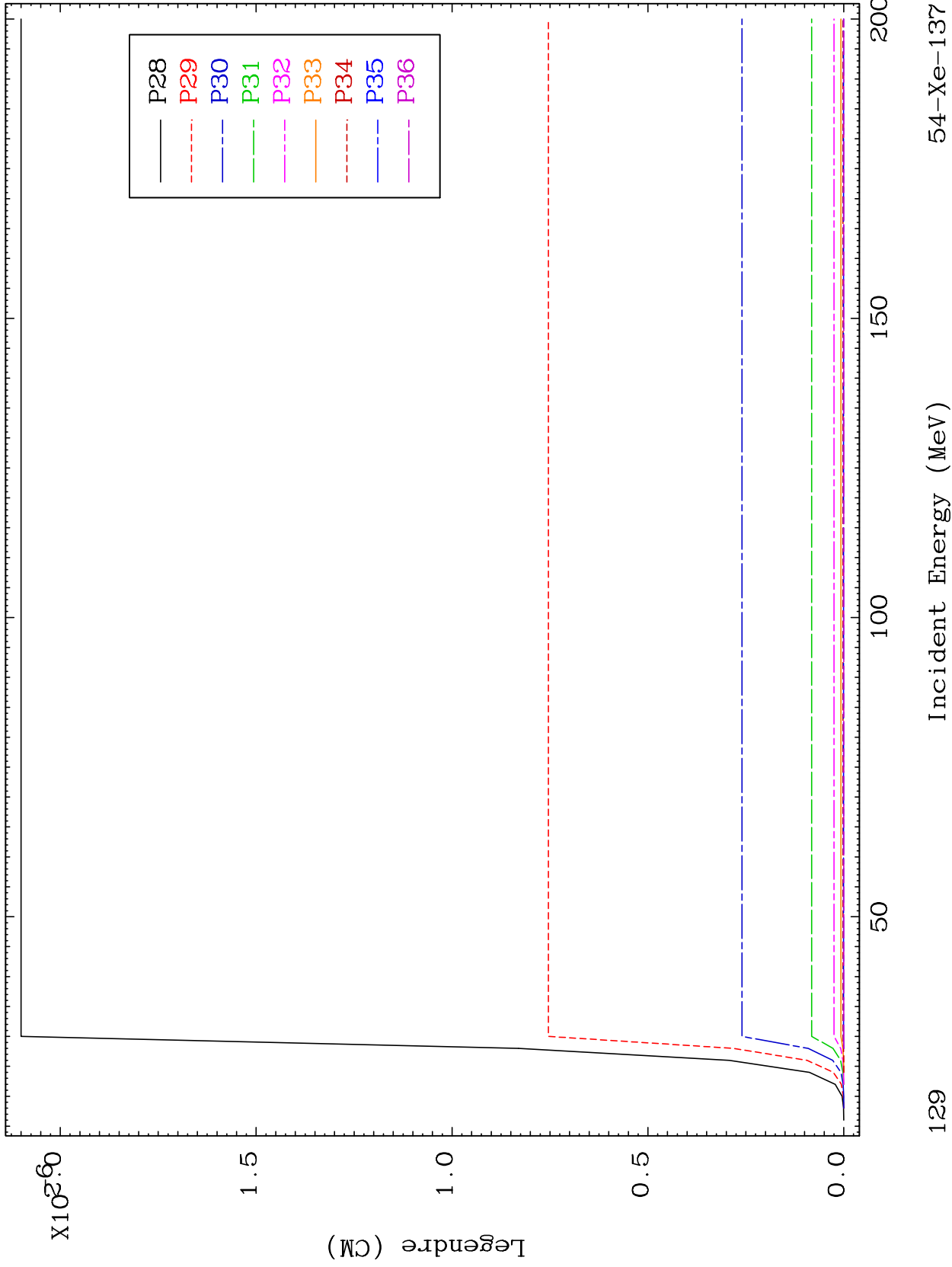
128

54-Xe-137

MAT 5464

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

54-Xe-137



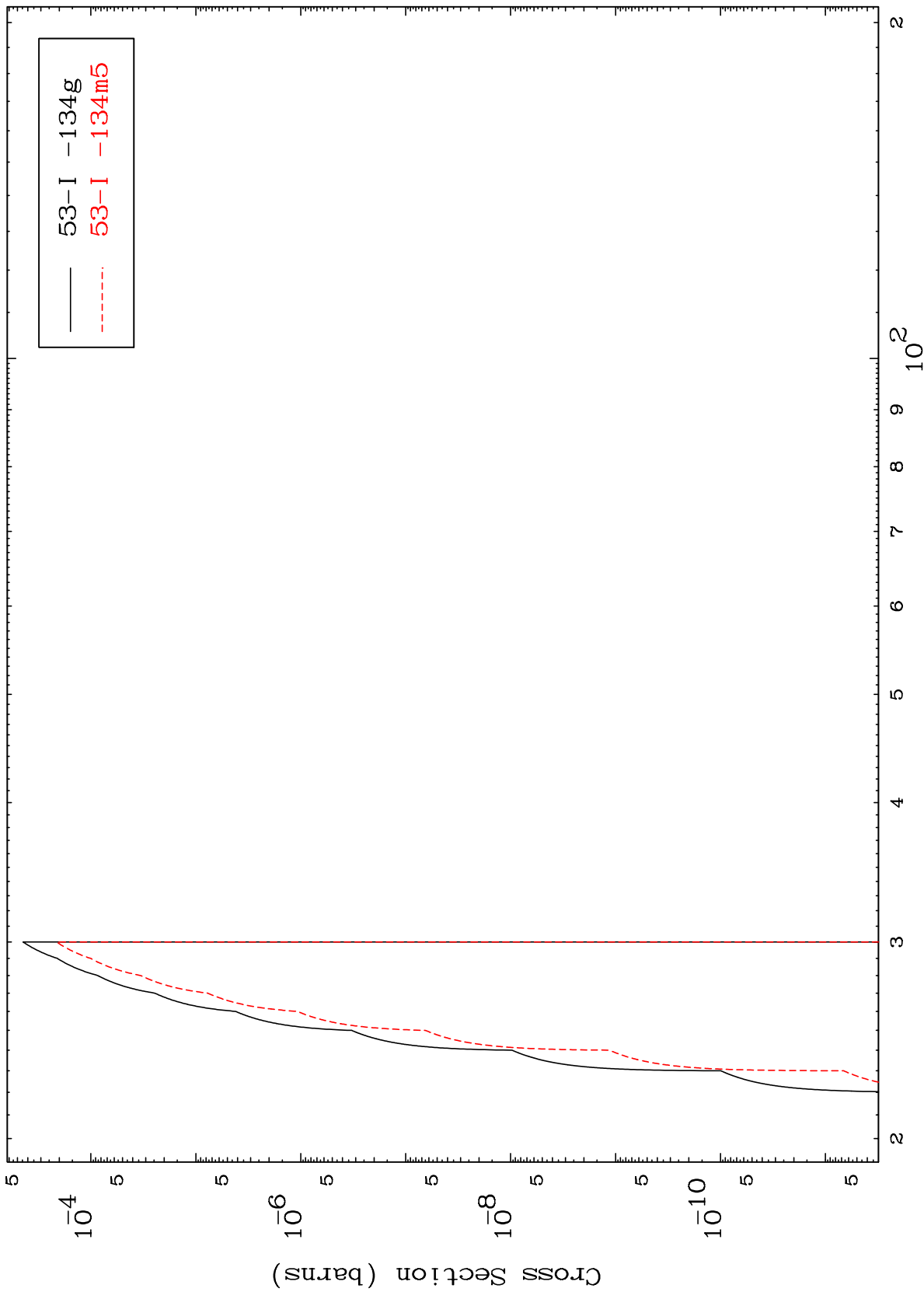
129

MAT 5464

(n,2n) d

54-Xe-137

Radionuclide Production Cross Section



130

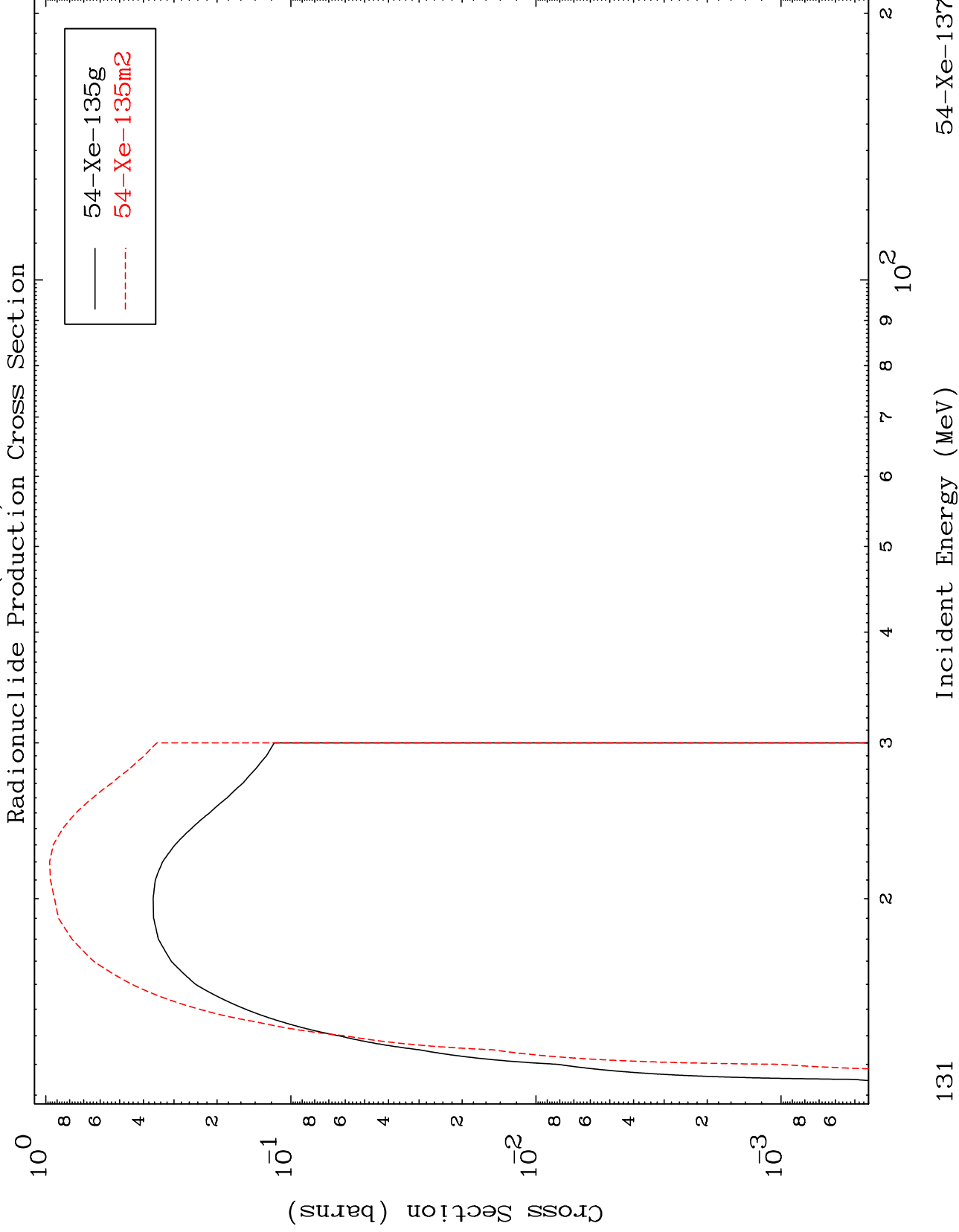
Incident Energy (MeV)

54-Xe-137

MAT 5464

(n,3n)

54-Xe-137



131

Incident Energy (MeV)

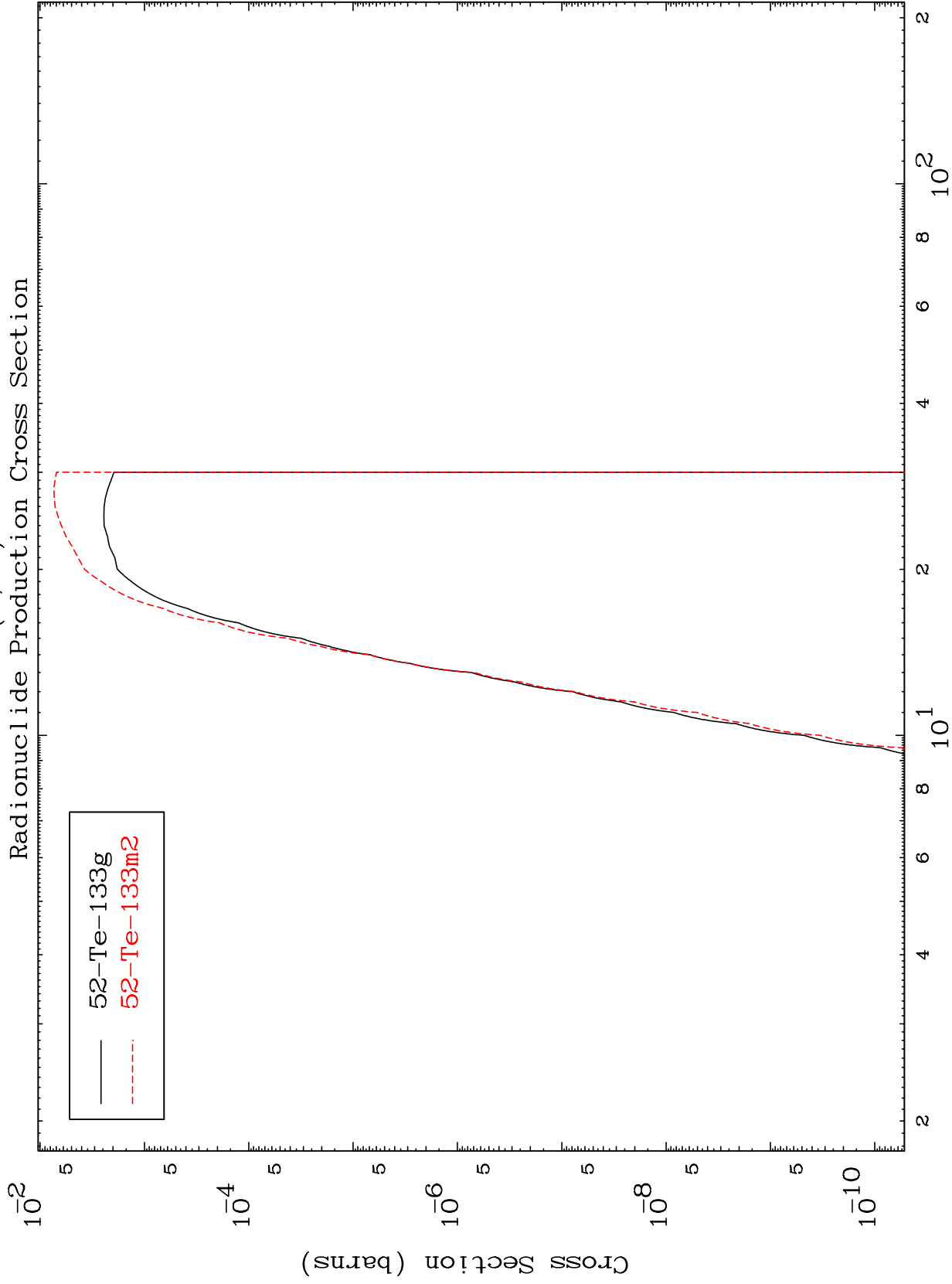
54-Xe-137

MAT 5464

54-Xe-137

(n,n')  $\alpha$

Radionuclide Production Cross Section

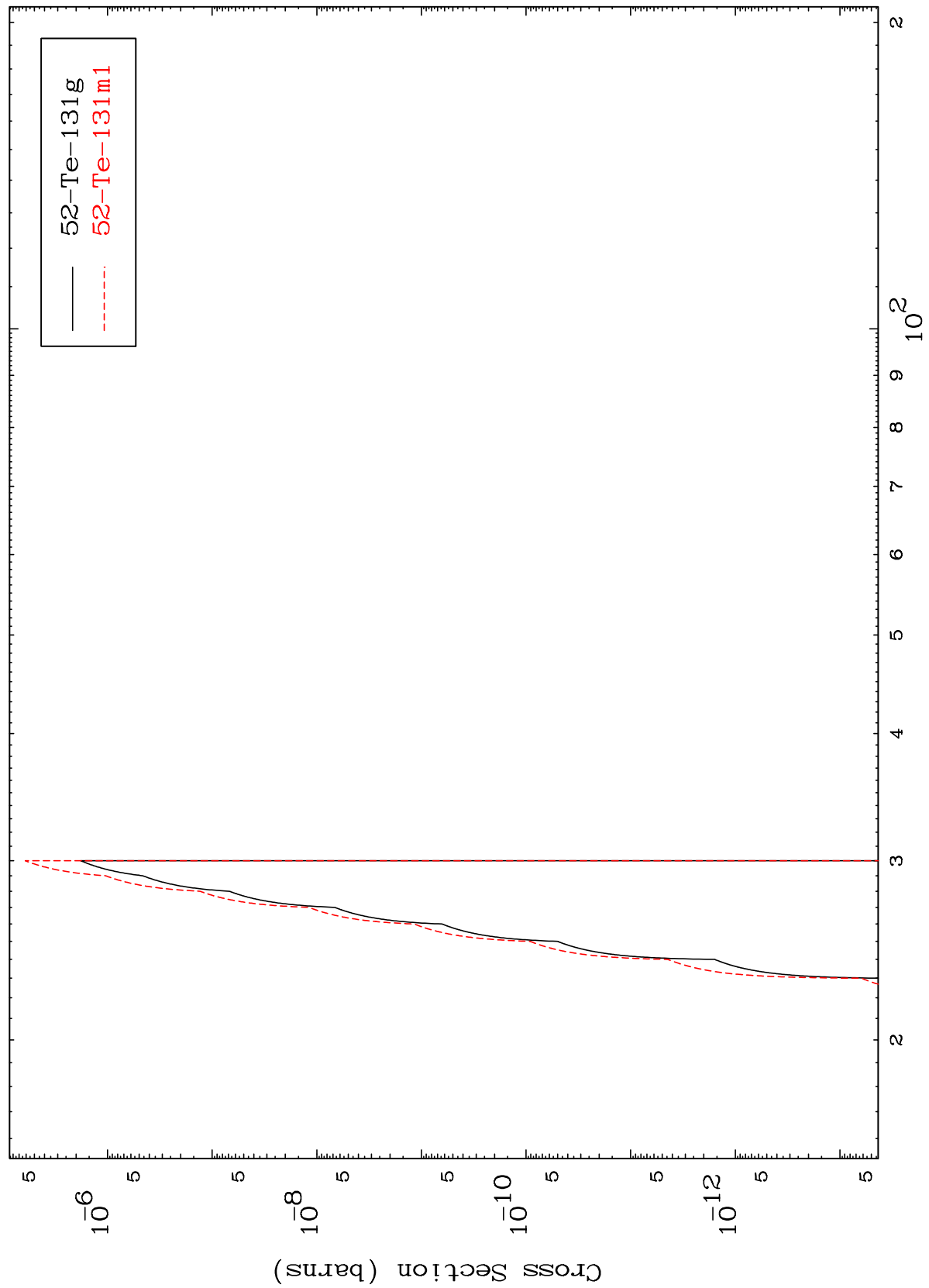


54-Xe-137

Incident Energy (MeV)

132

Radionuclide Production Cross Section

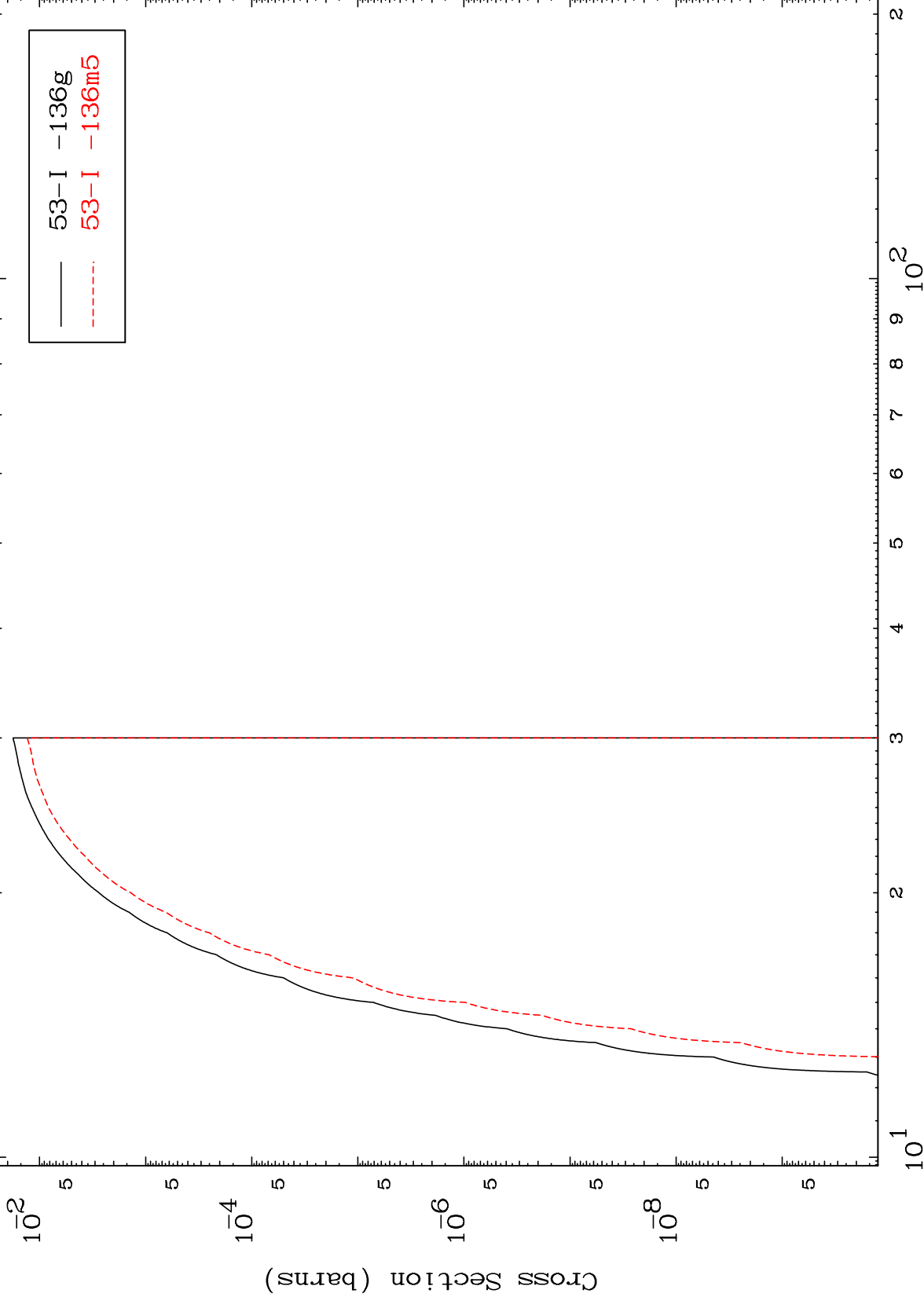


MAT 5464

(n,n') p

54-Xe-137

Radionuclide Production Cross Section



134

Incident Energy (MeV)

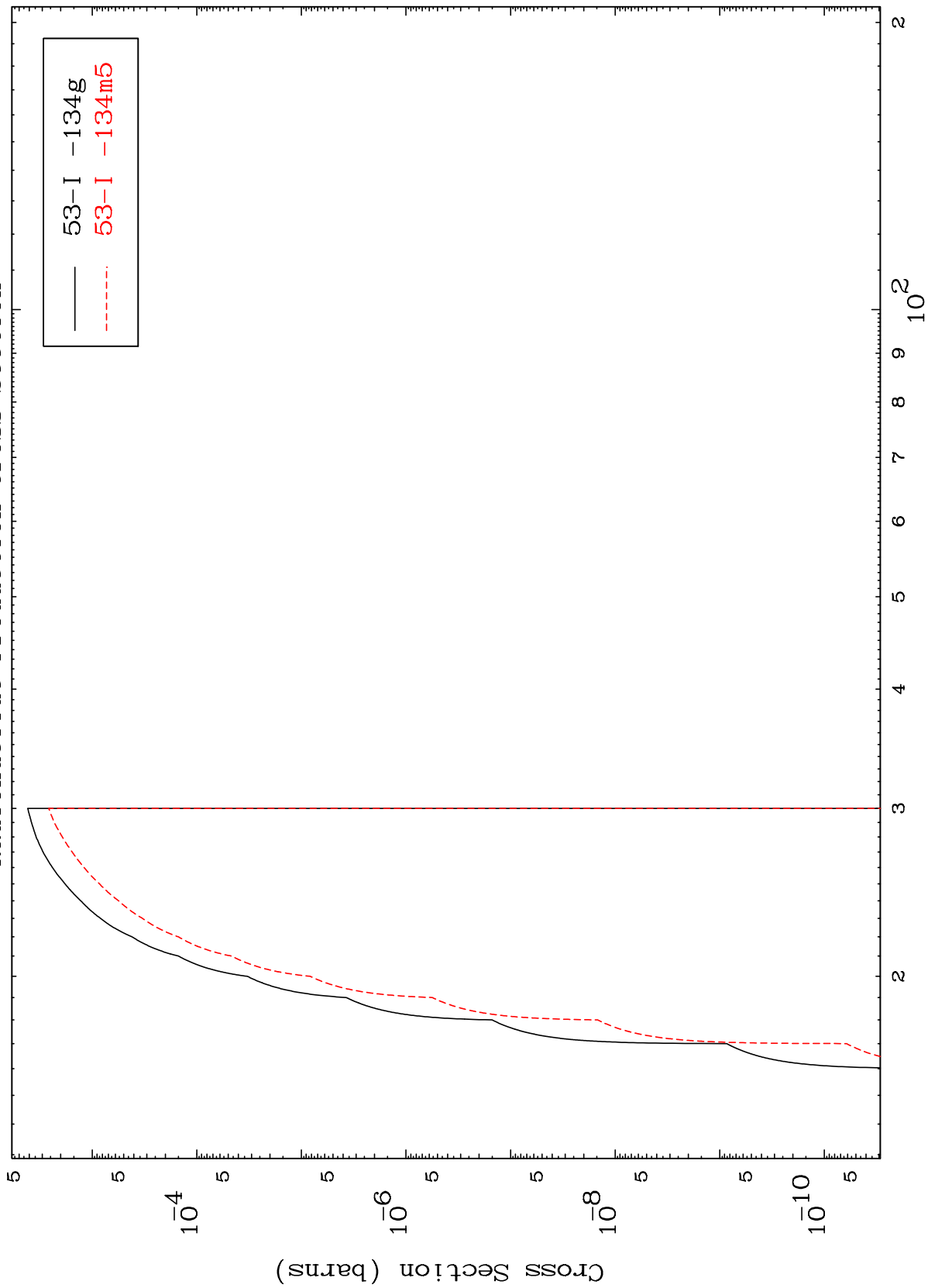
54-Xe-137

MAT 5464

(n,n') t

54-Xe-137

Radionuclide Production Cross Section



135

Incident Energy (MeV)

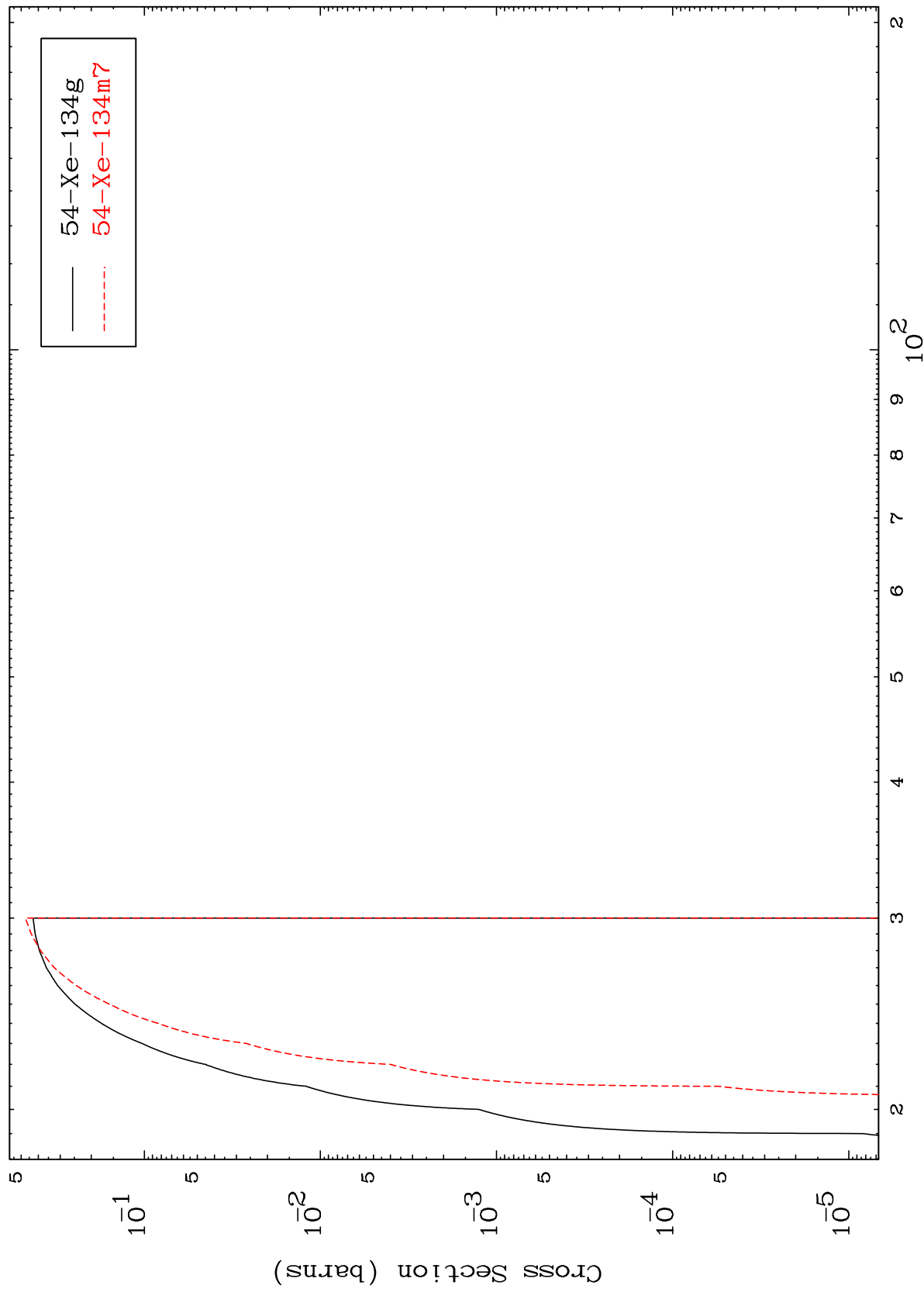
54-Xe-137



MAT 5464

54-Xe-137

(n,4n)  
Radionuclide Production Cross Section



136

54-Xe-137

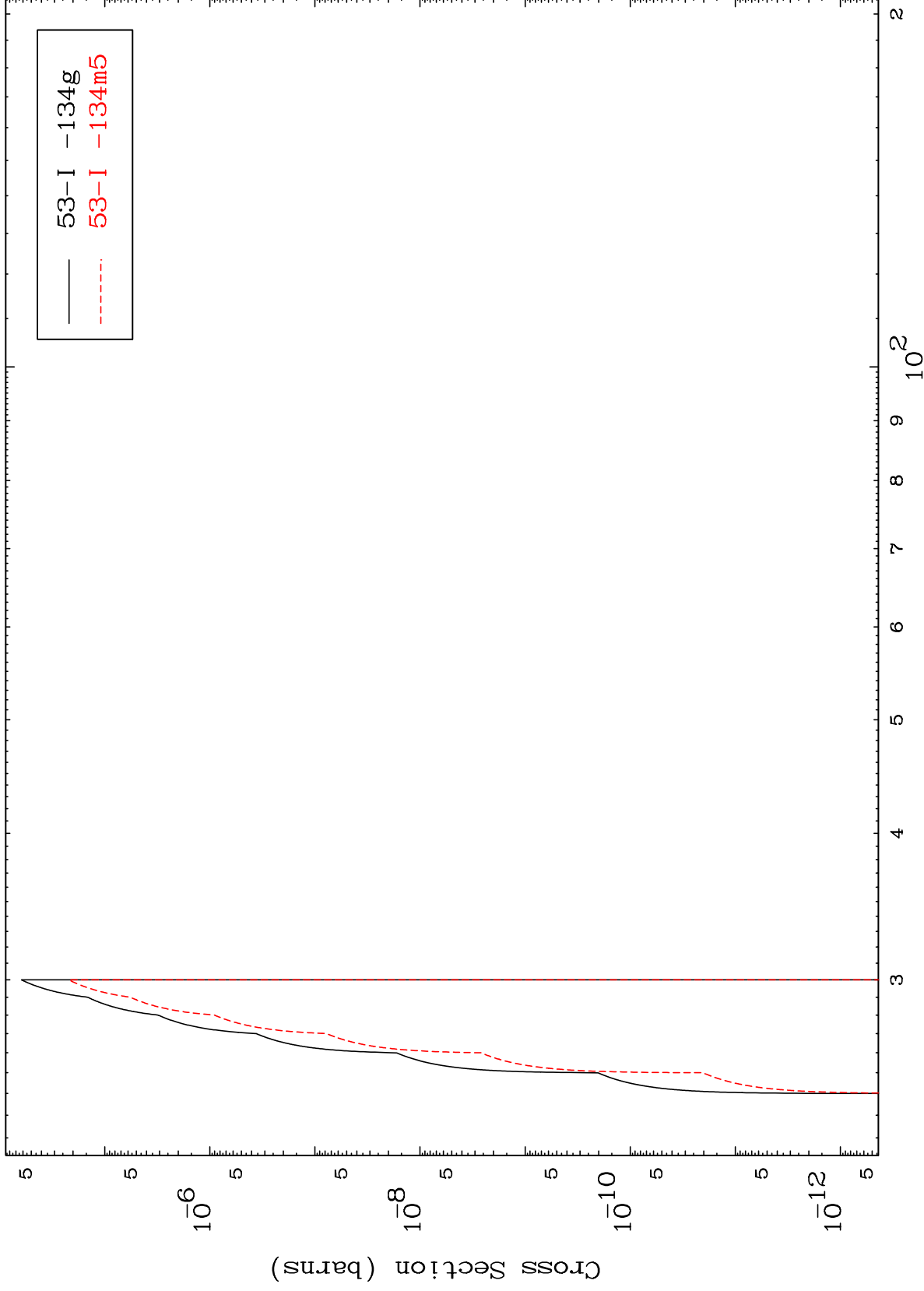
Incident Energy (MeV)

MAT 5464

(n,3n) p

54-Xe-137

Radionuclide Production Cross Section



137

Incident Energy (MeV)

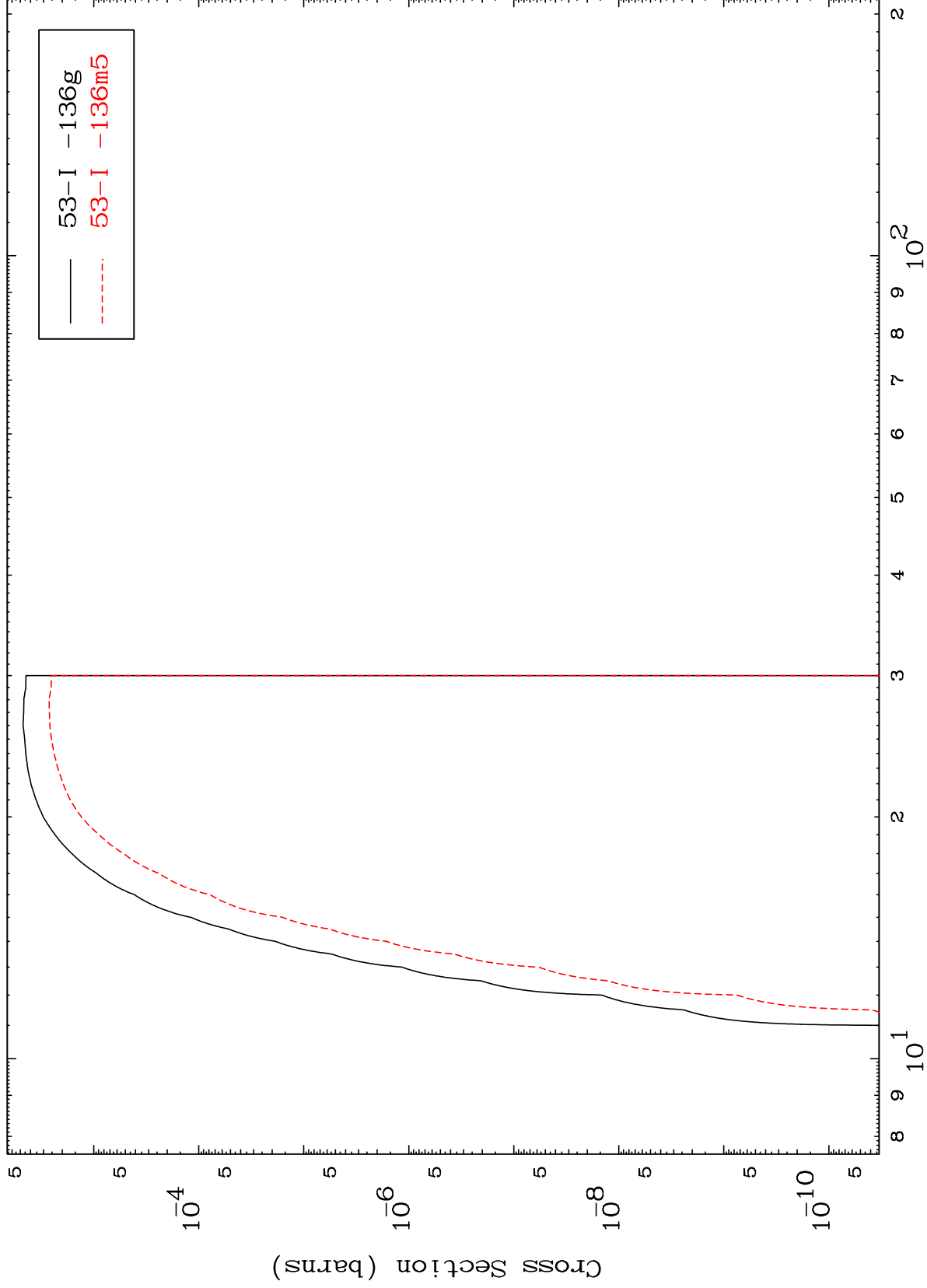
54-Xe-137

MAT 5464

(n,d)

54-Xe-137

Radionuclide Production Cross Section



138

Incident Energy (MeV)

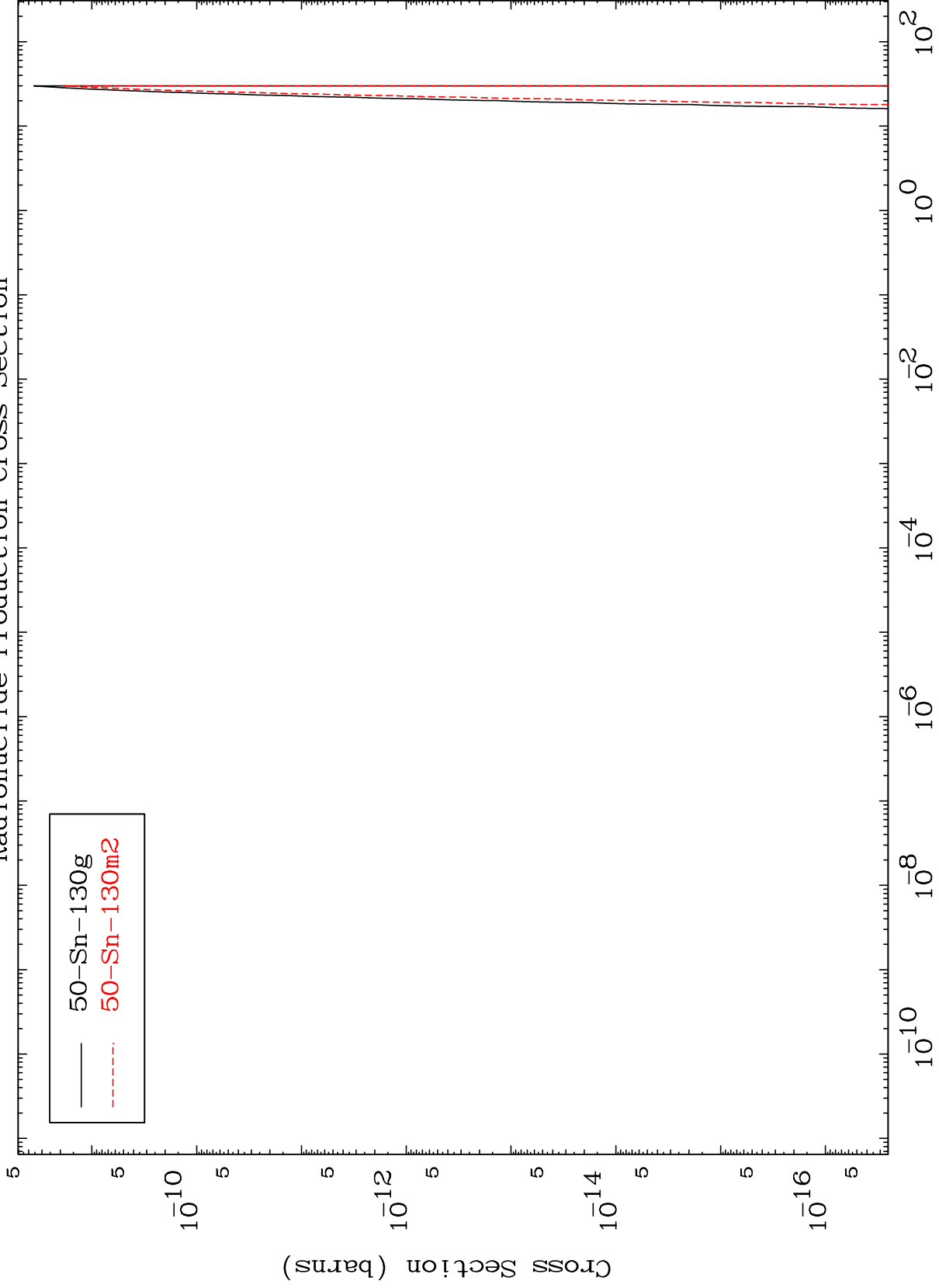
54-Xe-137

MAT 5464

(n,2α)

54-Xe-137

Radionuclide Production Cross Section



139

Incident Energy (MeV)

54-Xe-137