

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail: redcullen1@comcast.net

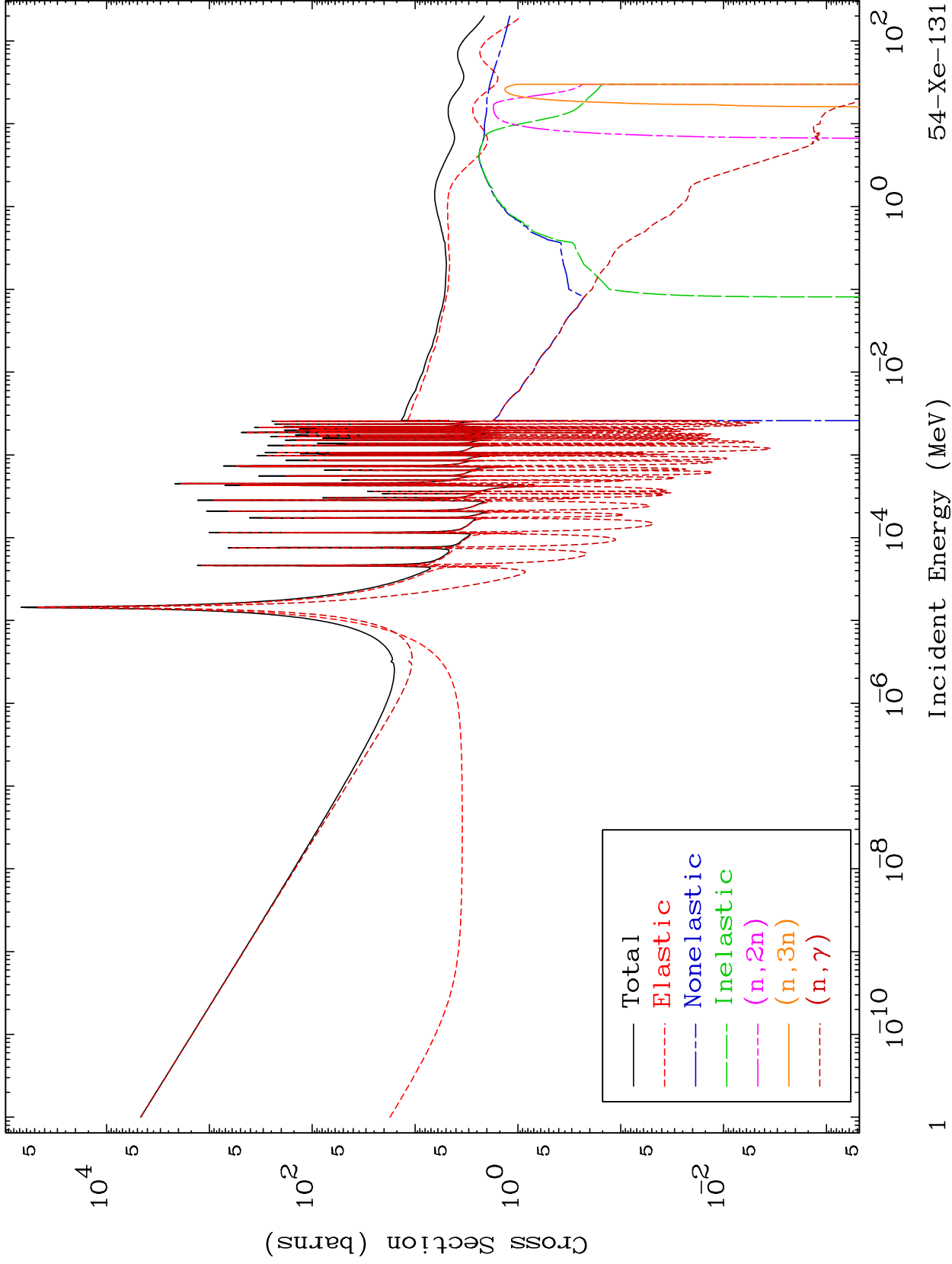
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

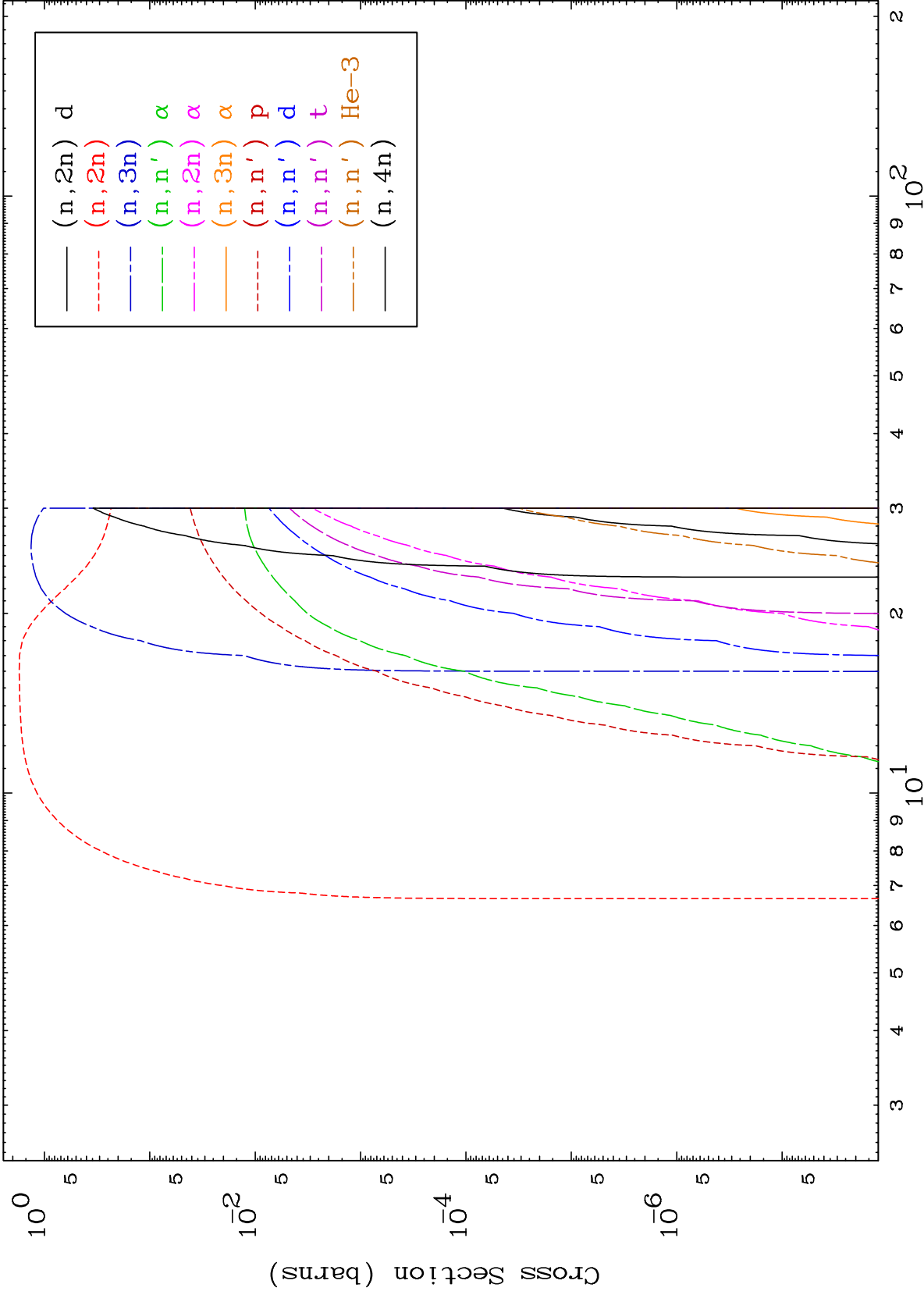
MAT 5446

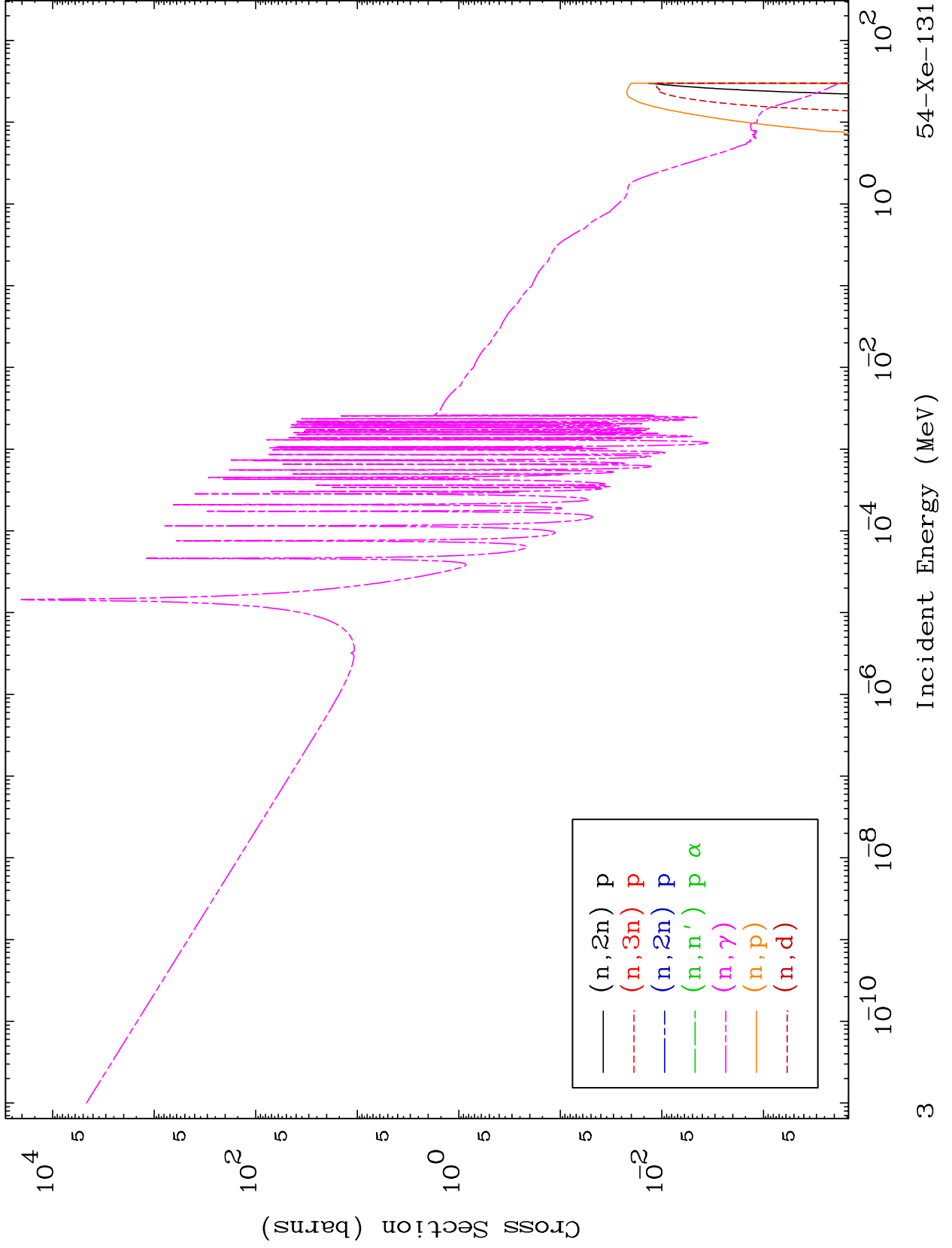
Neutron Major
293 Kelvin Cross Sections

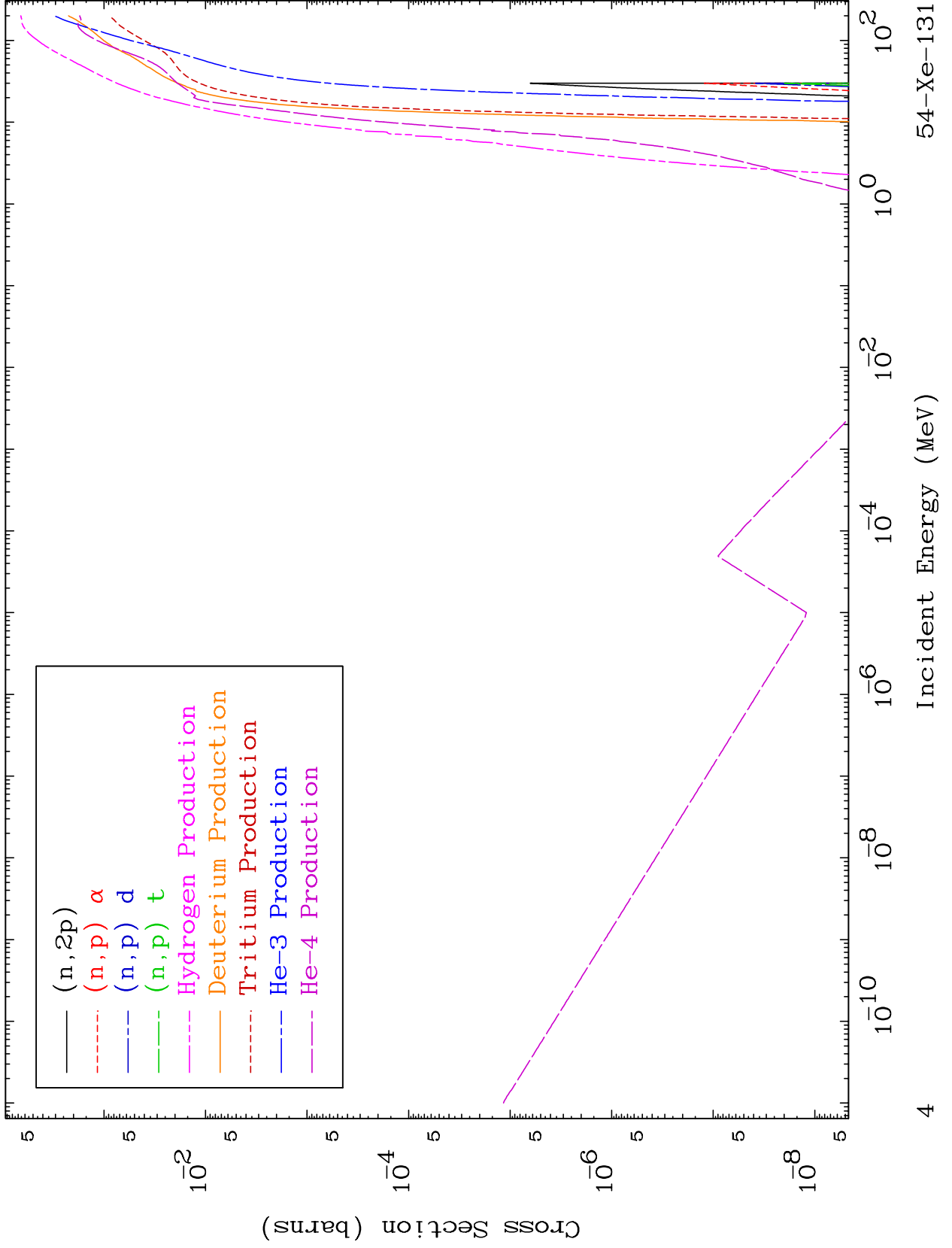
54-Xe-131

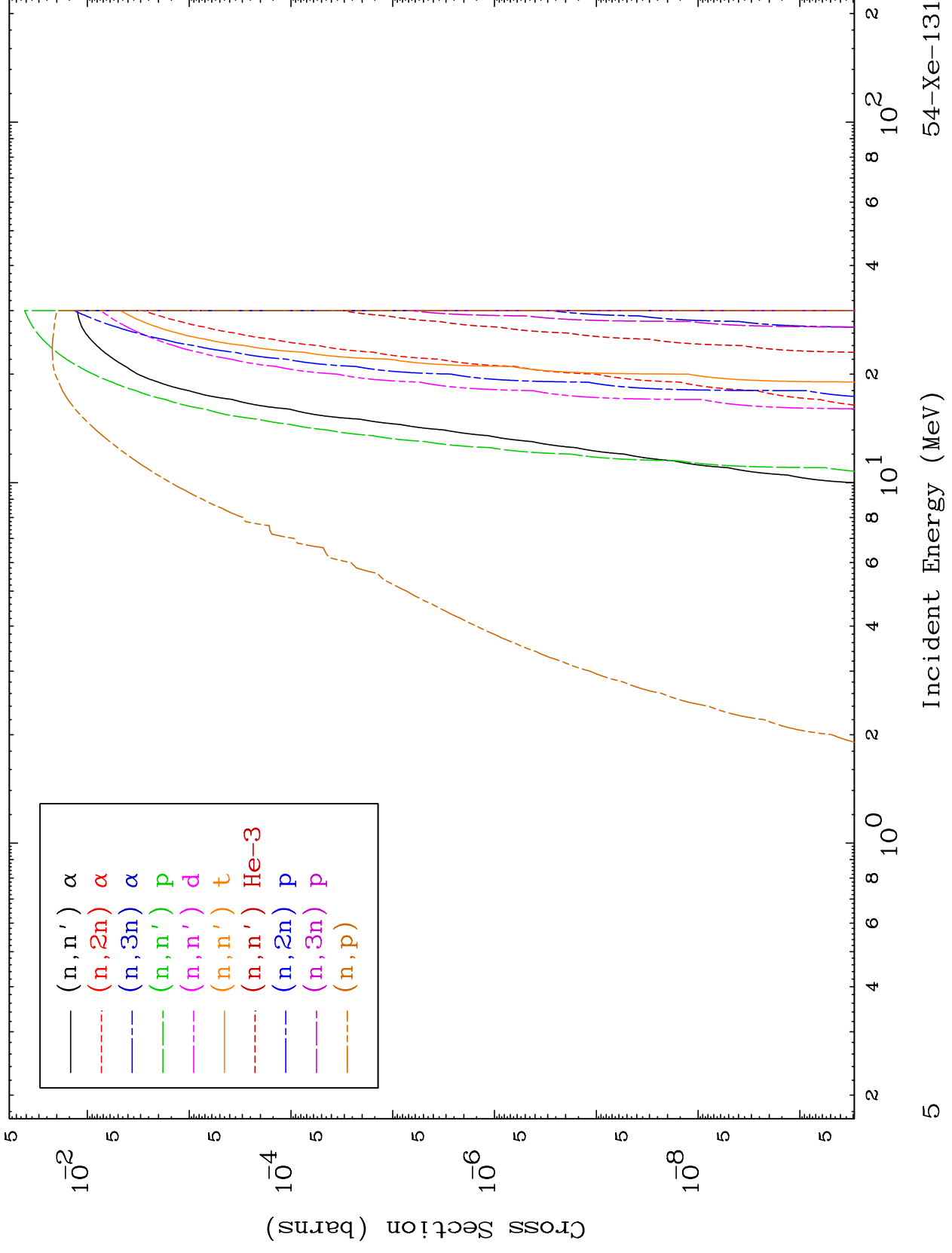


Neutron Absorption
293 Kelvin Cross Sections





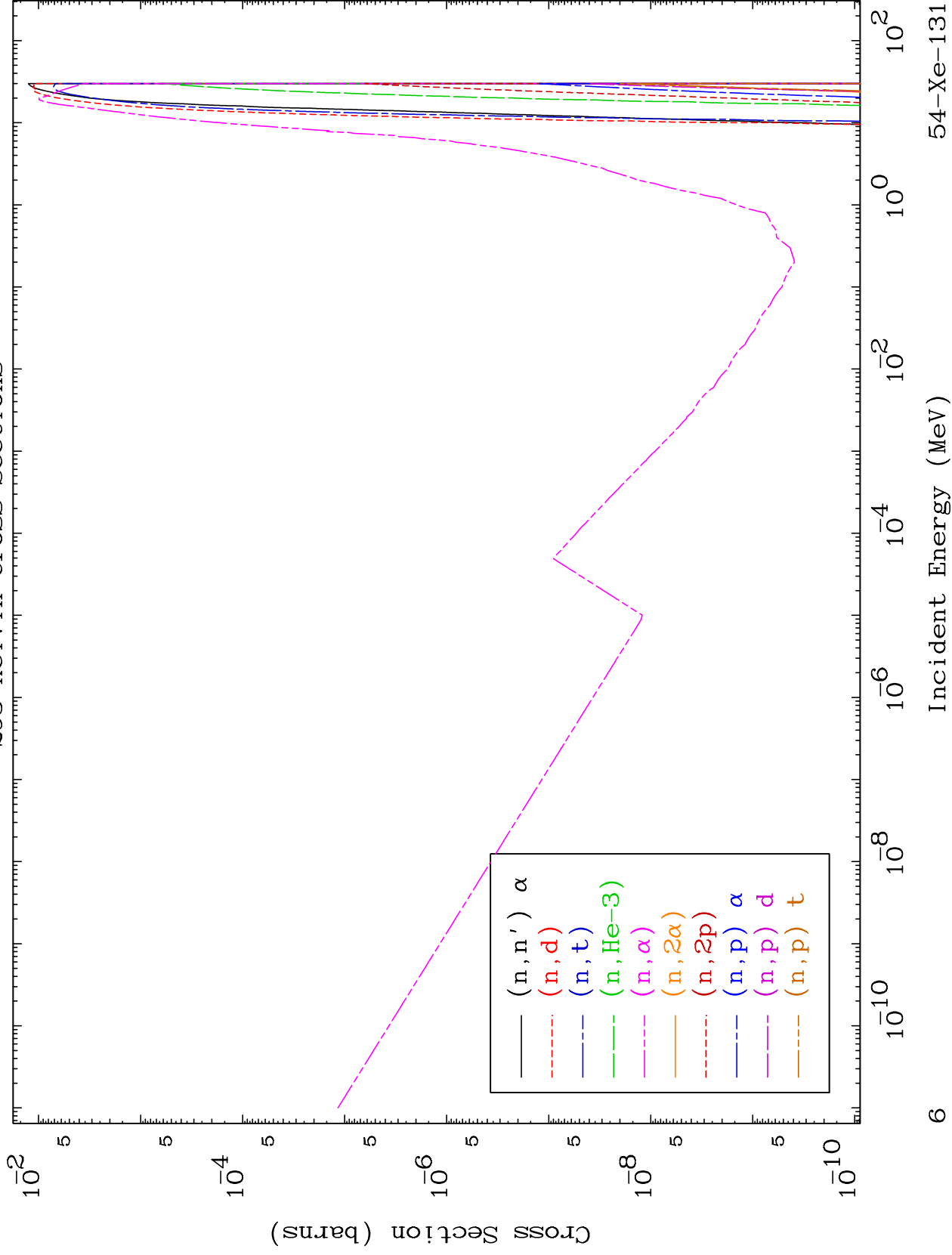


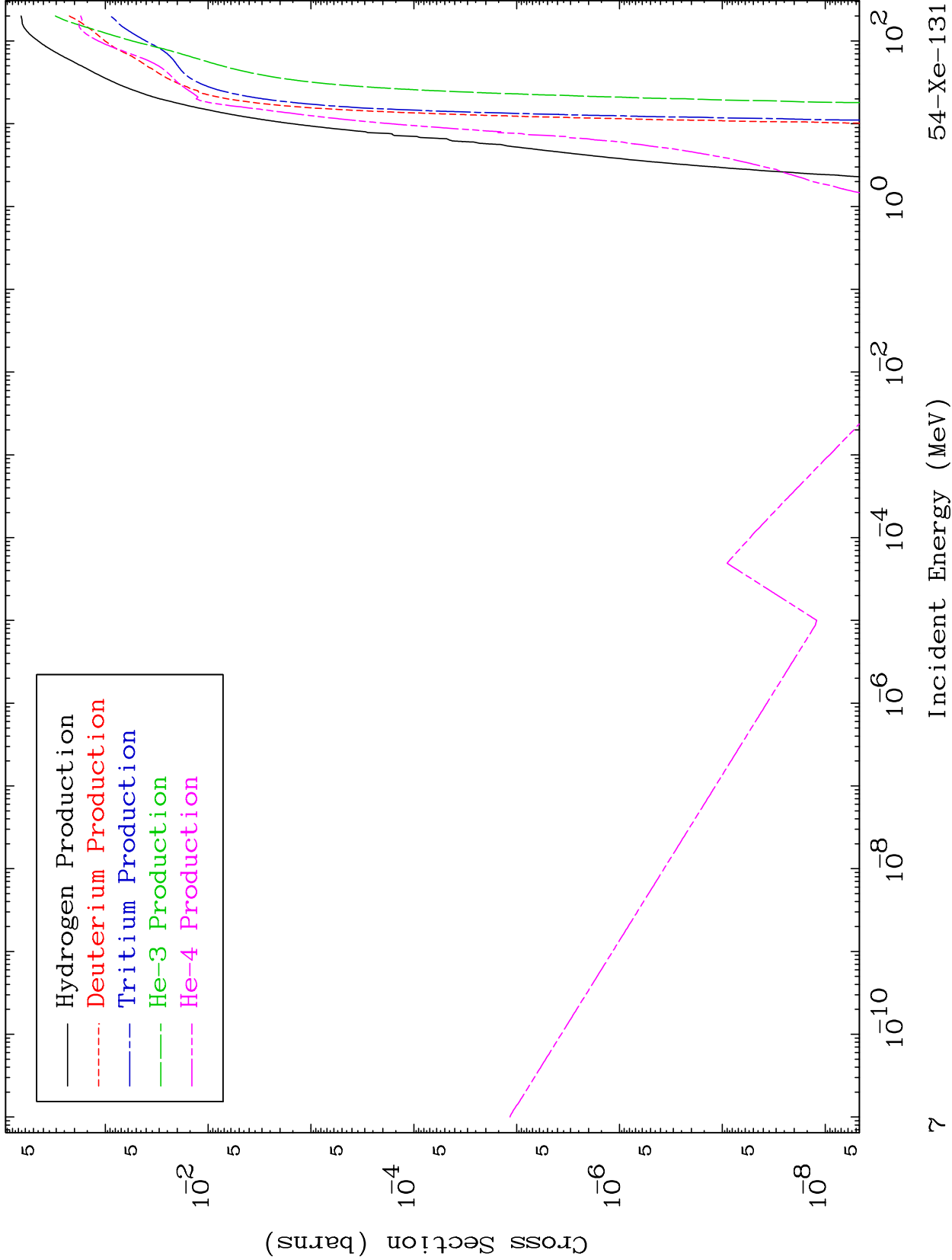


MAT 5446

Charged Particle
293 Kelvin Cross Sections

54-Xe-131



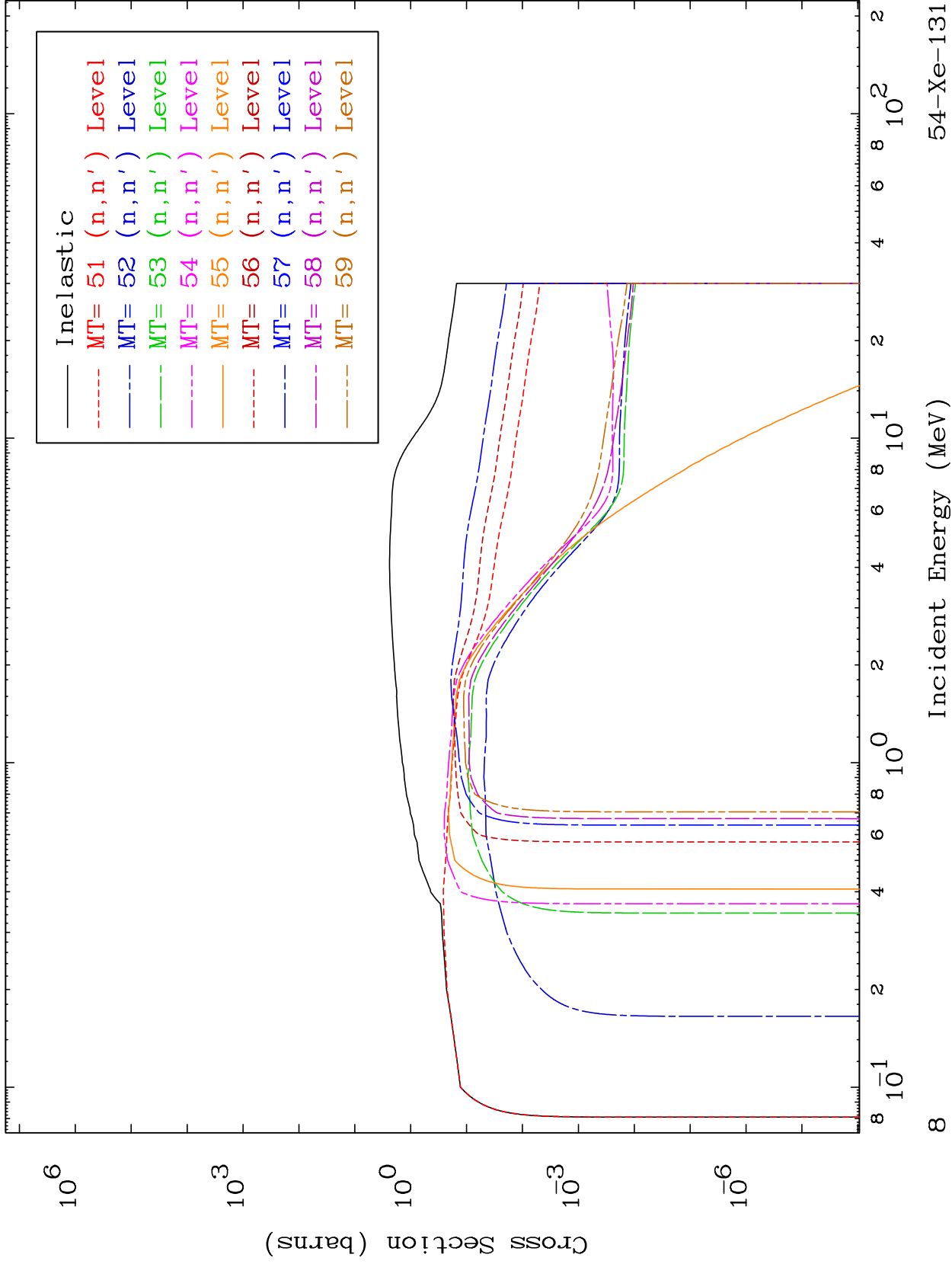


MAT 5446

(n,n') Levels

293 Kelvin Cross Sections

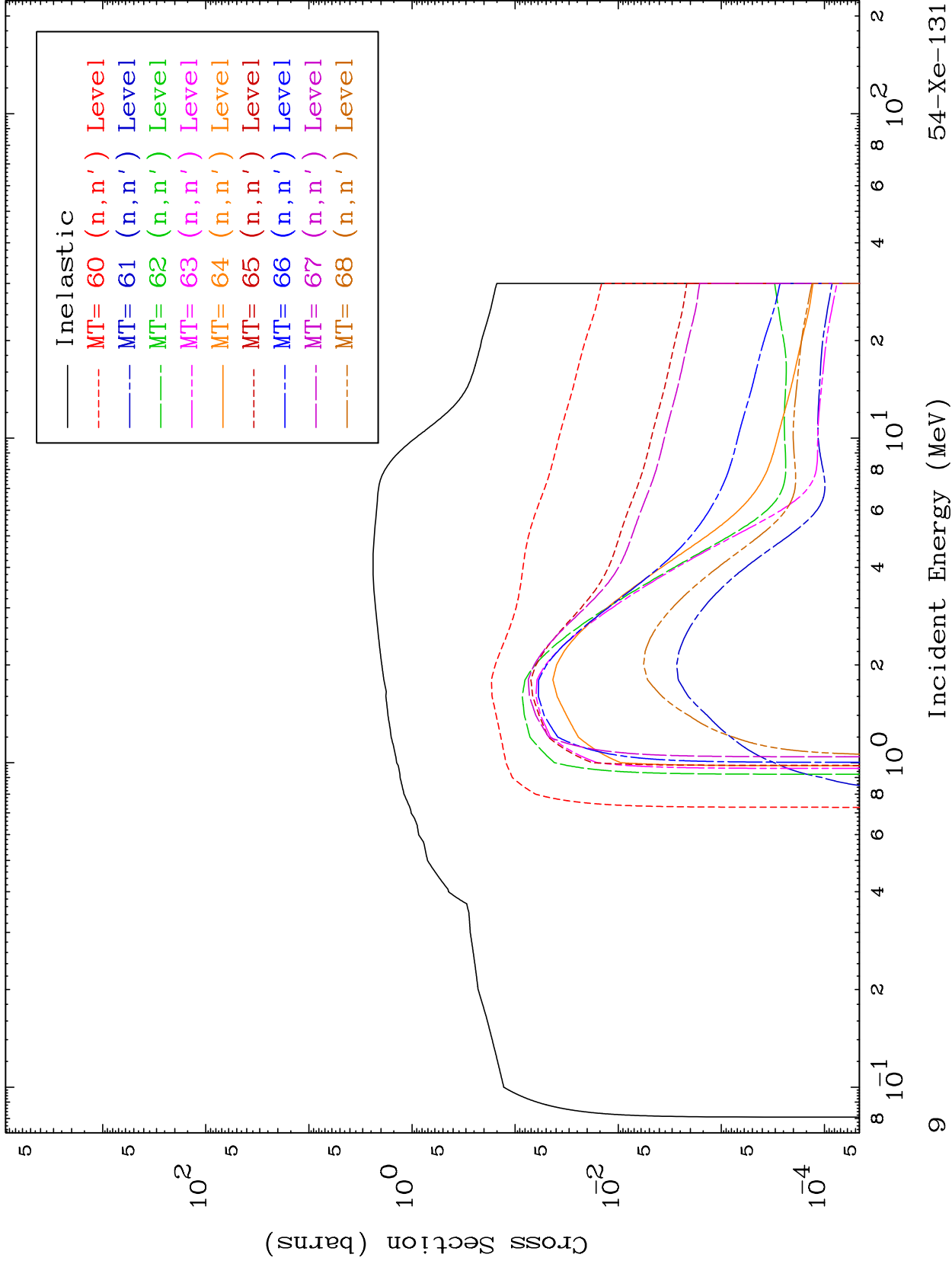
54-Xe-131



54-Xe-131

Incident Energy (MeV)

8

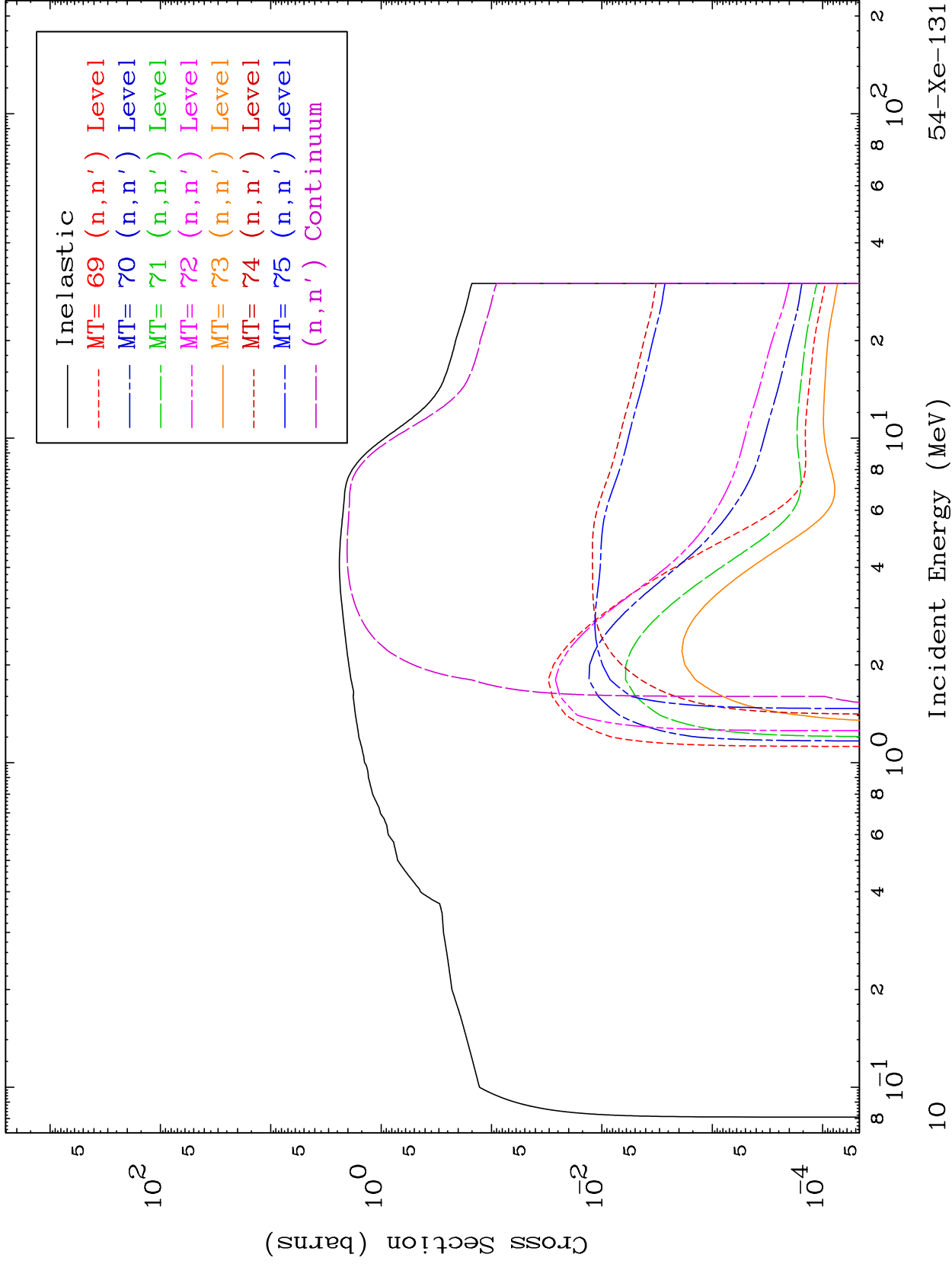


MAT 5446

(n,n') Levels

54-Xe-131

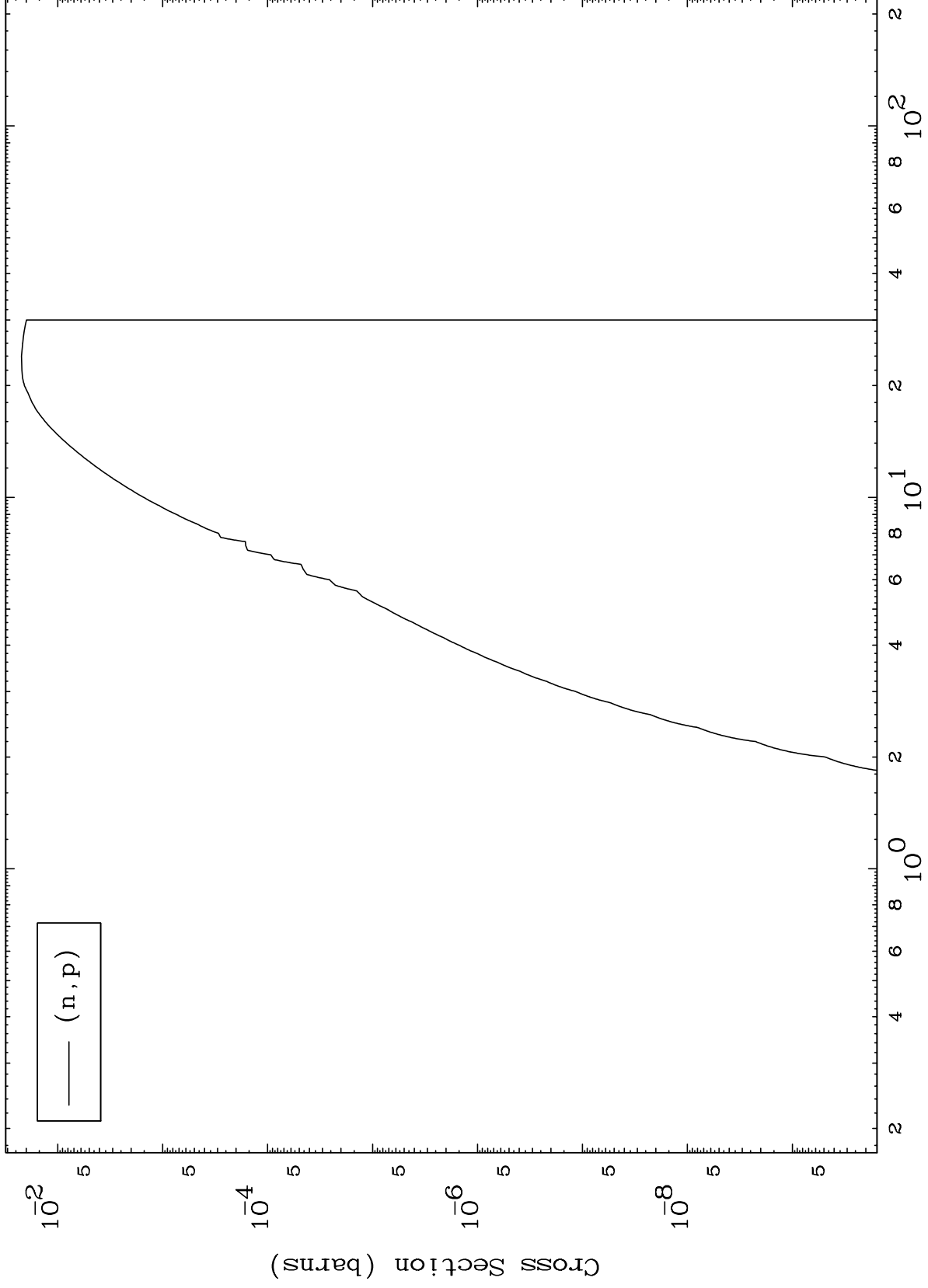
293 Kelvin Cross Sections



MAT 5446

(n,p) Levels
293 Kelvin Cross Sections

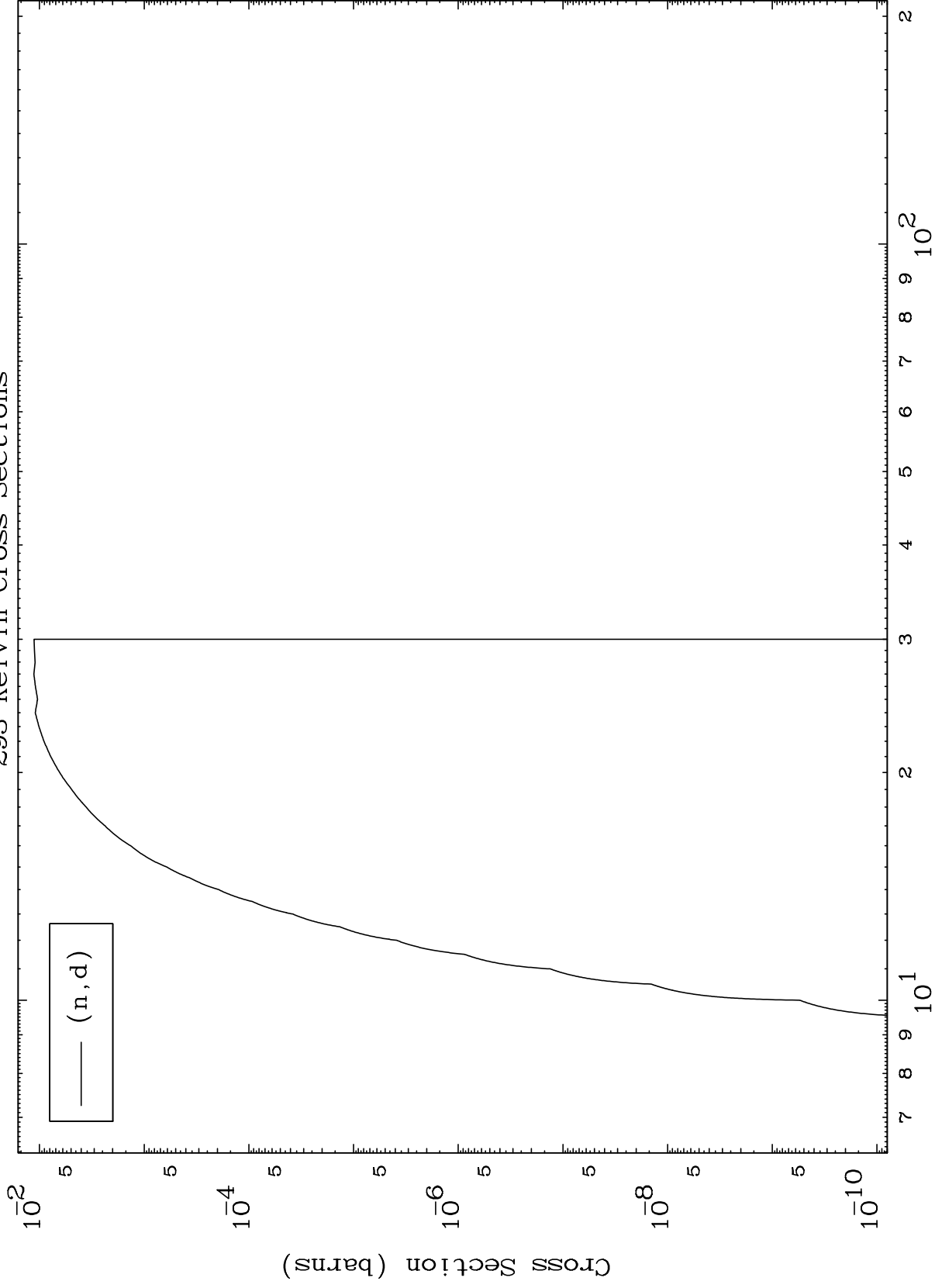
54-Xe-131



MAT 5446

(n,d) Levels
293 Kelvin Cross Sections

54-Xe-131



12

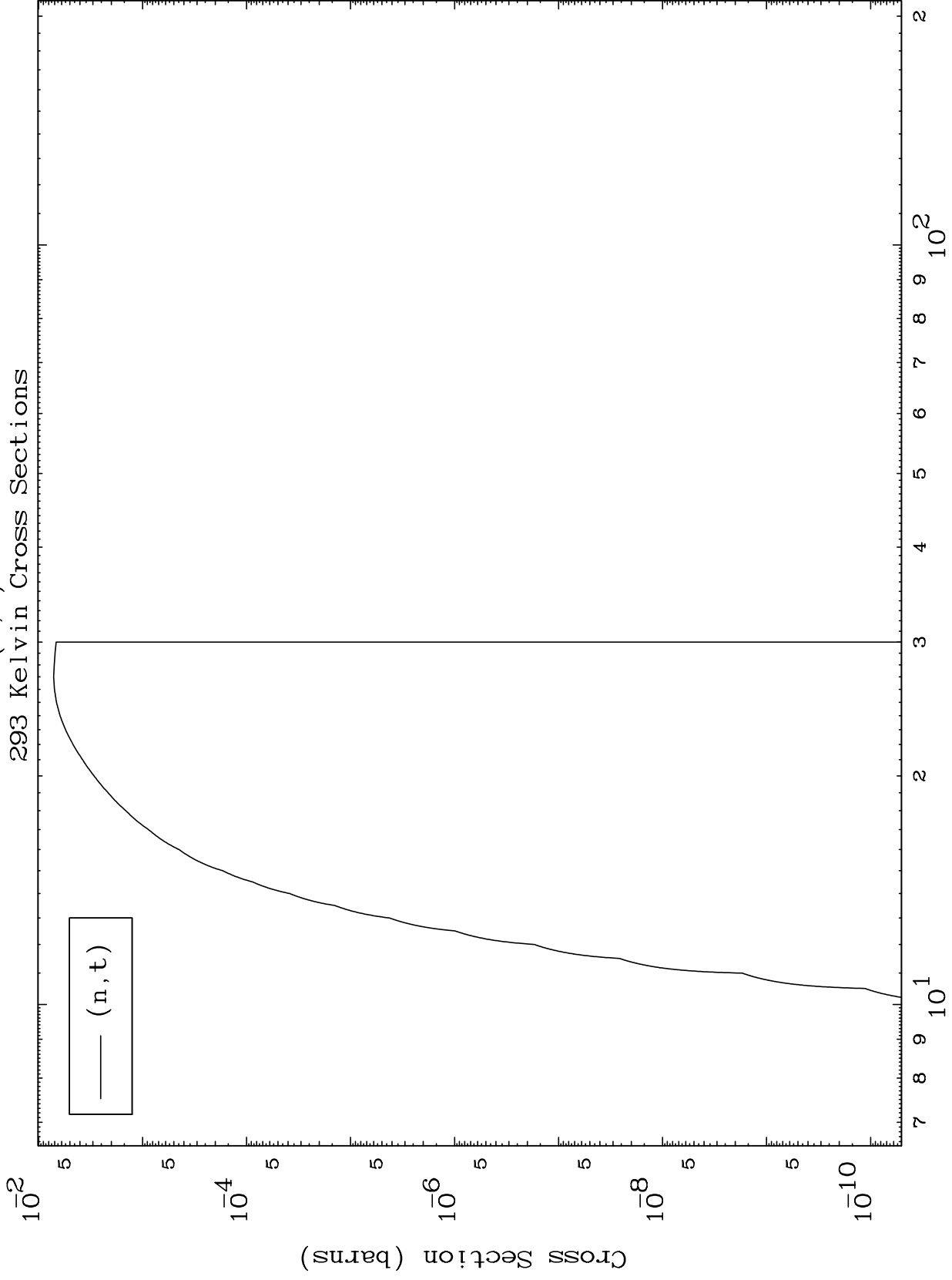
Incident Energy (MeV)

54-Xe-131

MAT 5446

(n,t) Levels
293 Kelvin Cross Sections

54-Xe-131



13

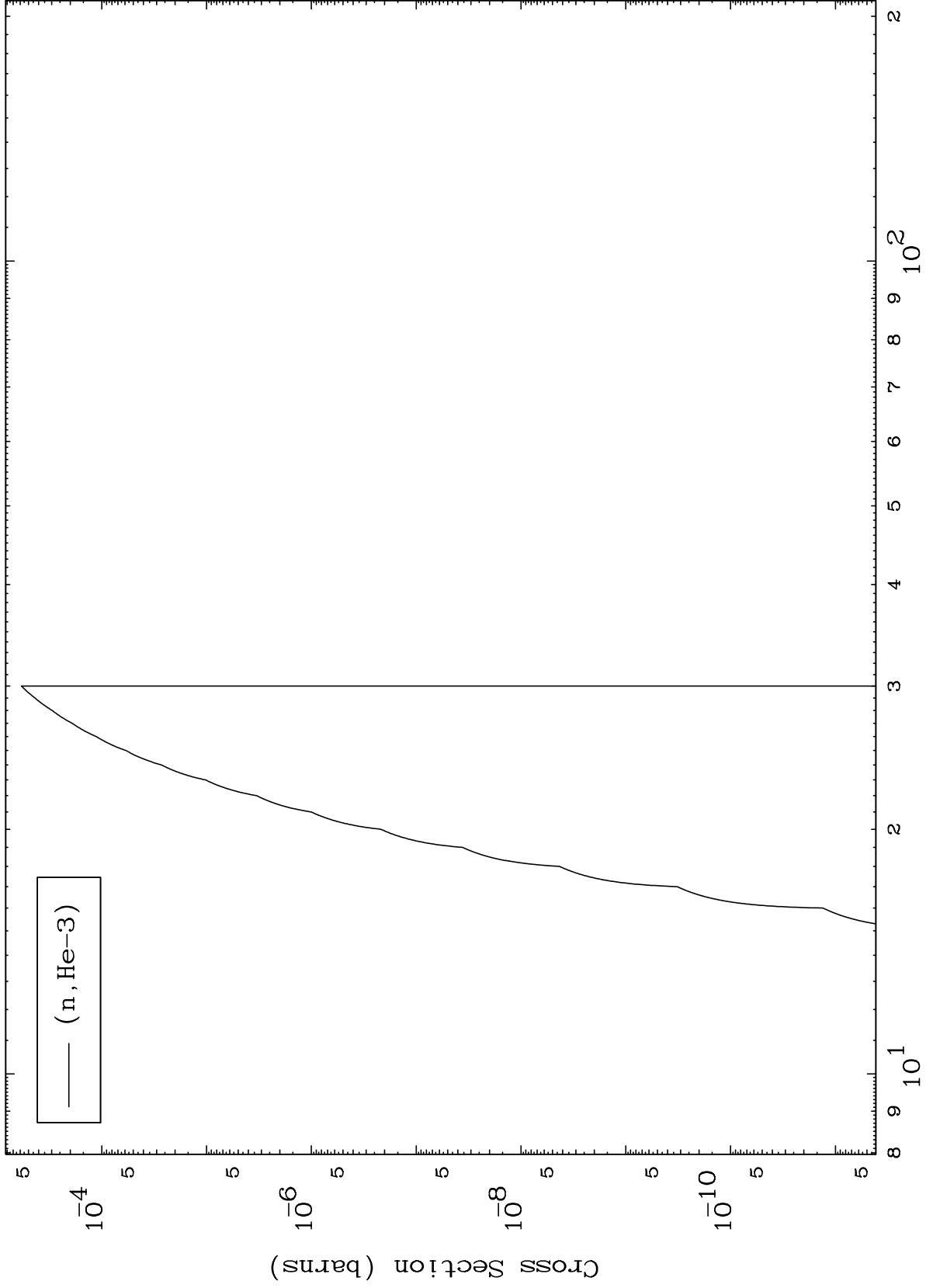
Incident Energy (MeV)

54-Xe-131

MAT 5446

(n,He3) Levels
293 Kelvin Cross Sections

54-Xe-131



14

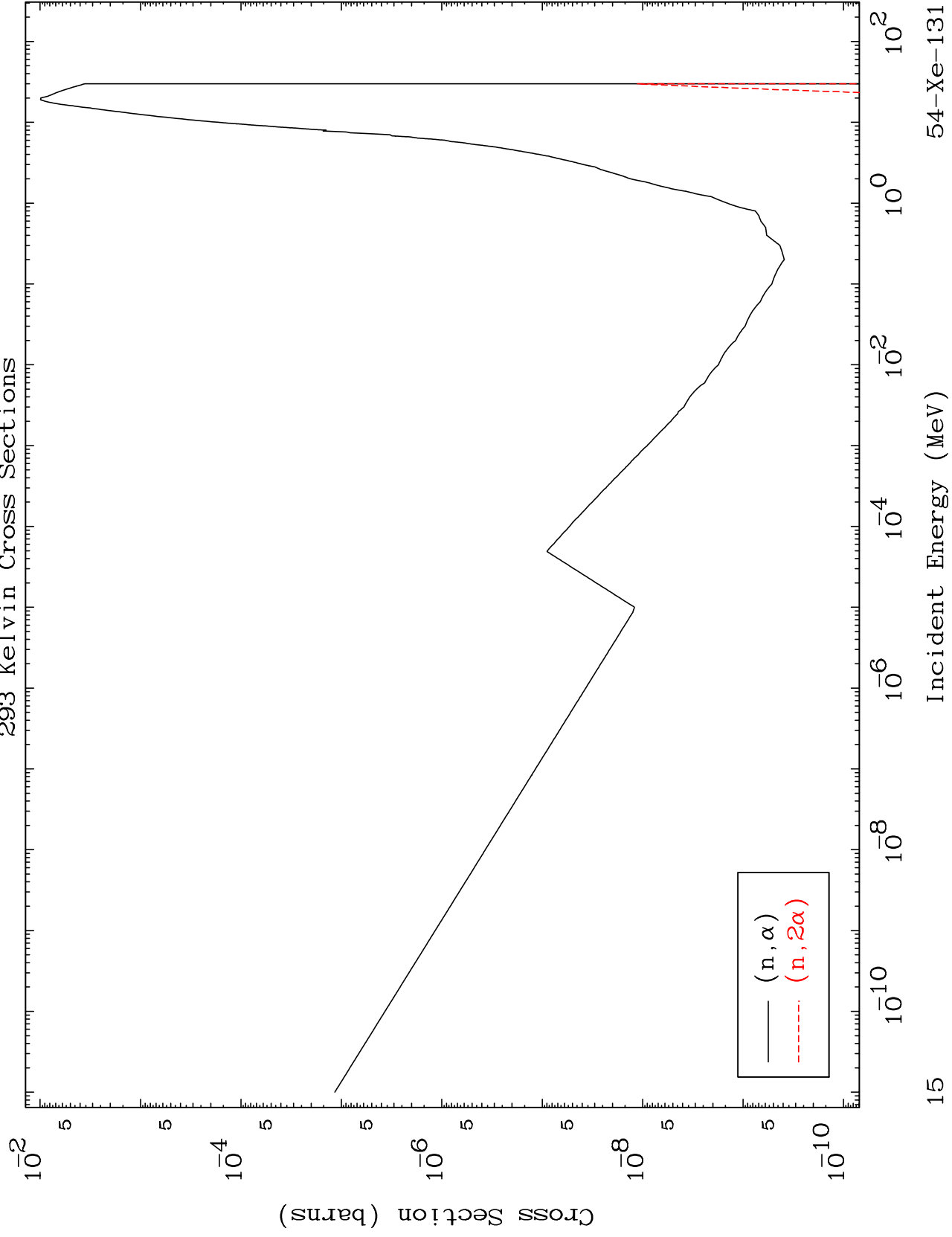
Incident Energy (MeV)

54-Xe-131

MAT 5446

(n, α) Levels
293 Kelvin Cross Sections

54-Xe-131

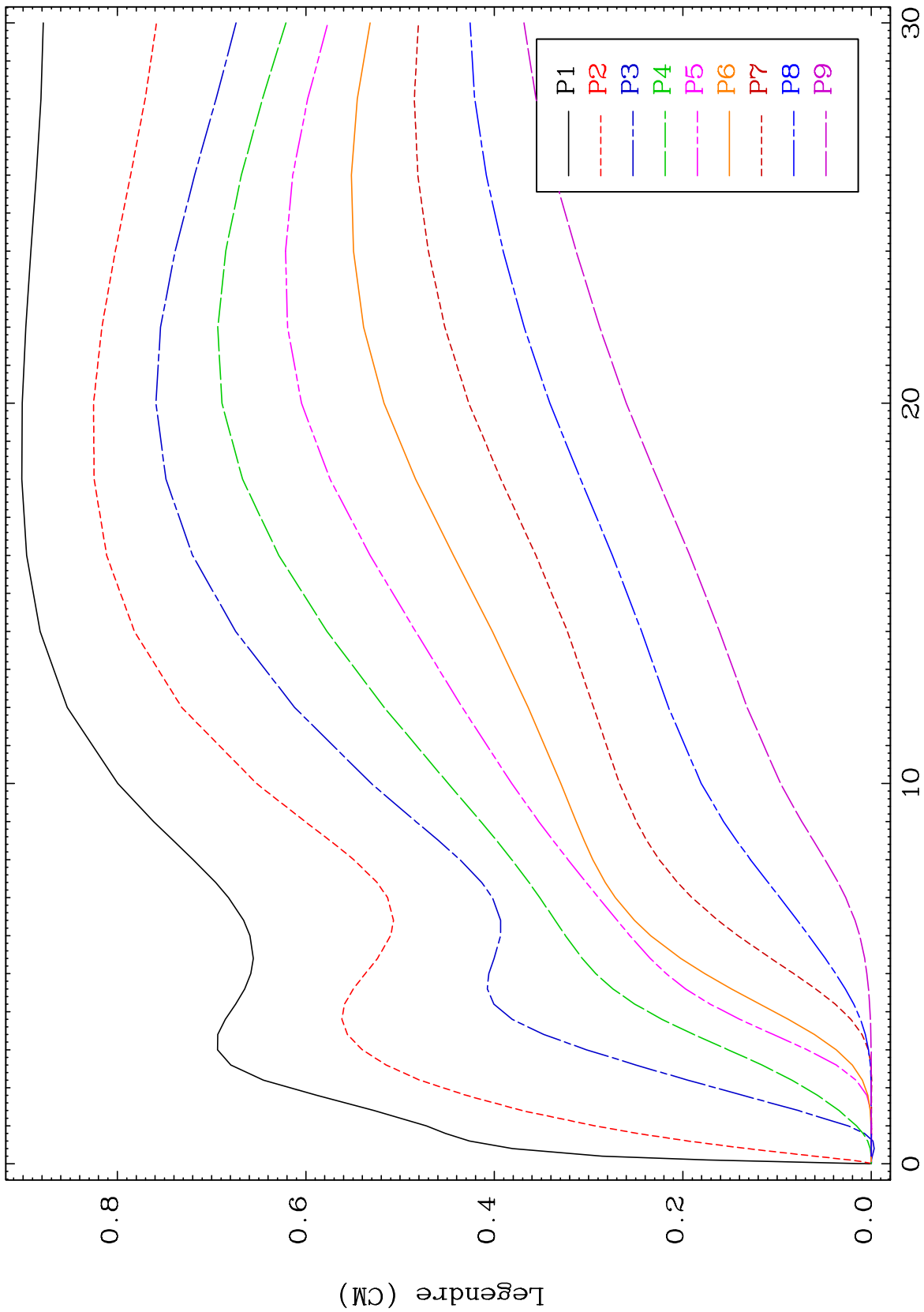


15

MAT 5446

54-Xe-131

Elastic Legendre Coefficients



16

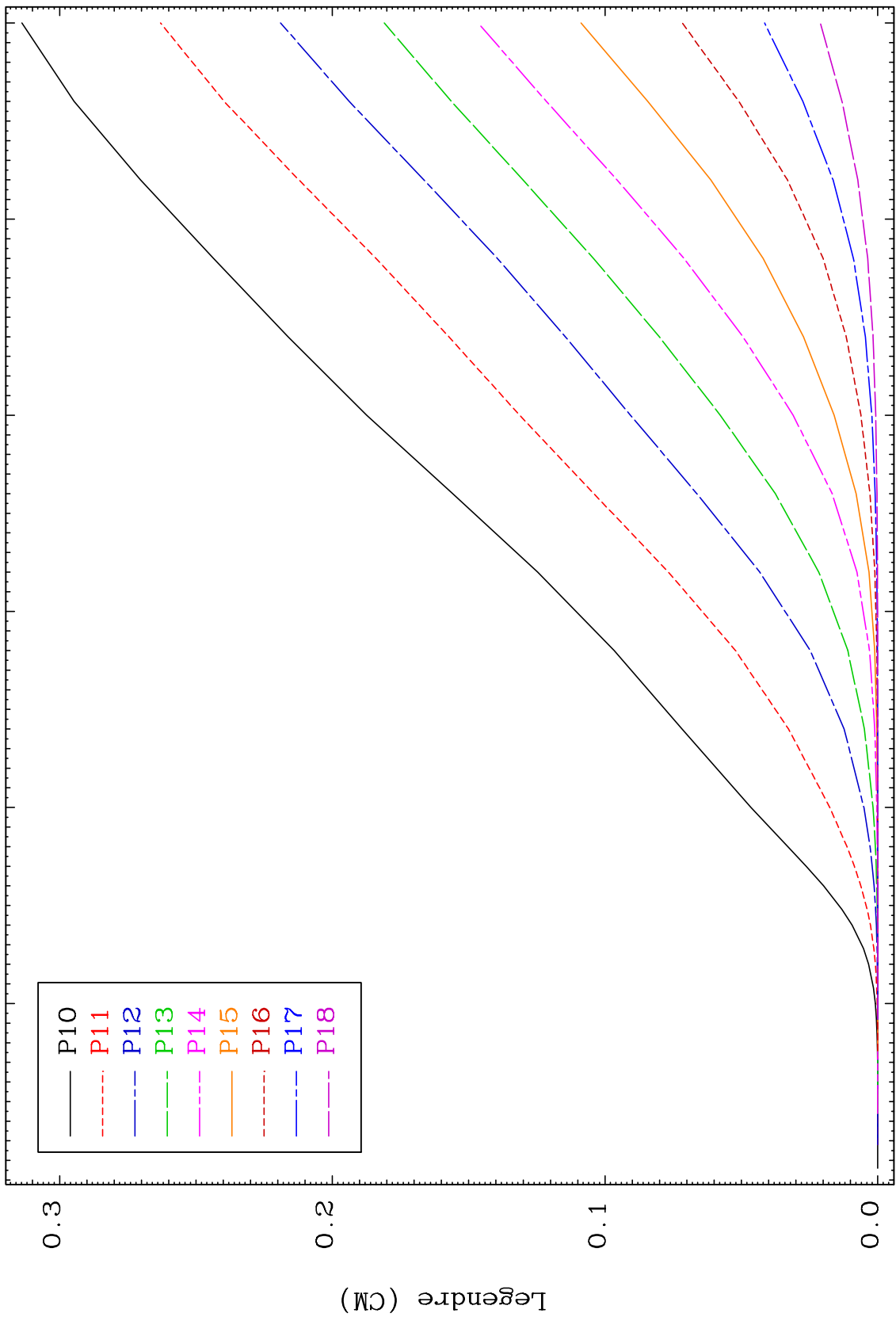
Incident Energy (MeV)

54-Xe-131

MAT 5446

Elastic Legendre Coefficients

54-Xe-131



17

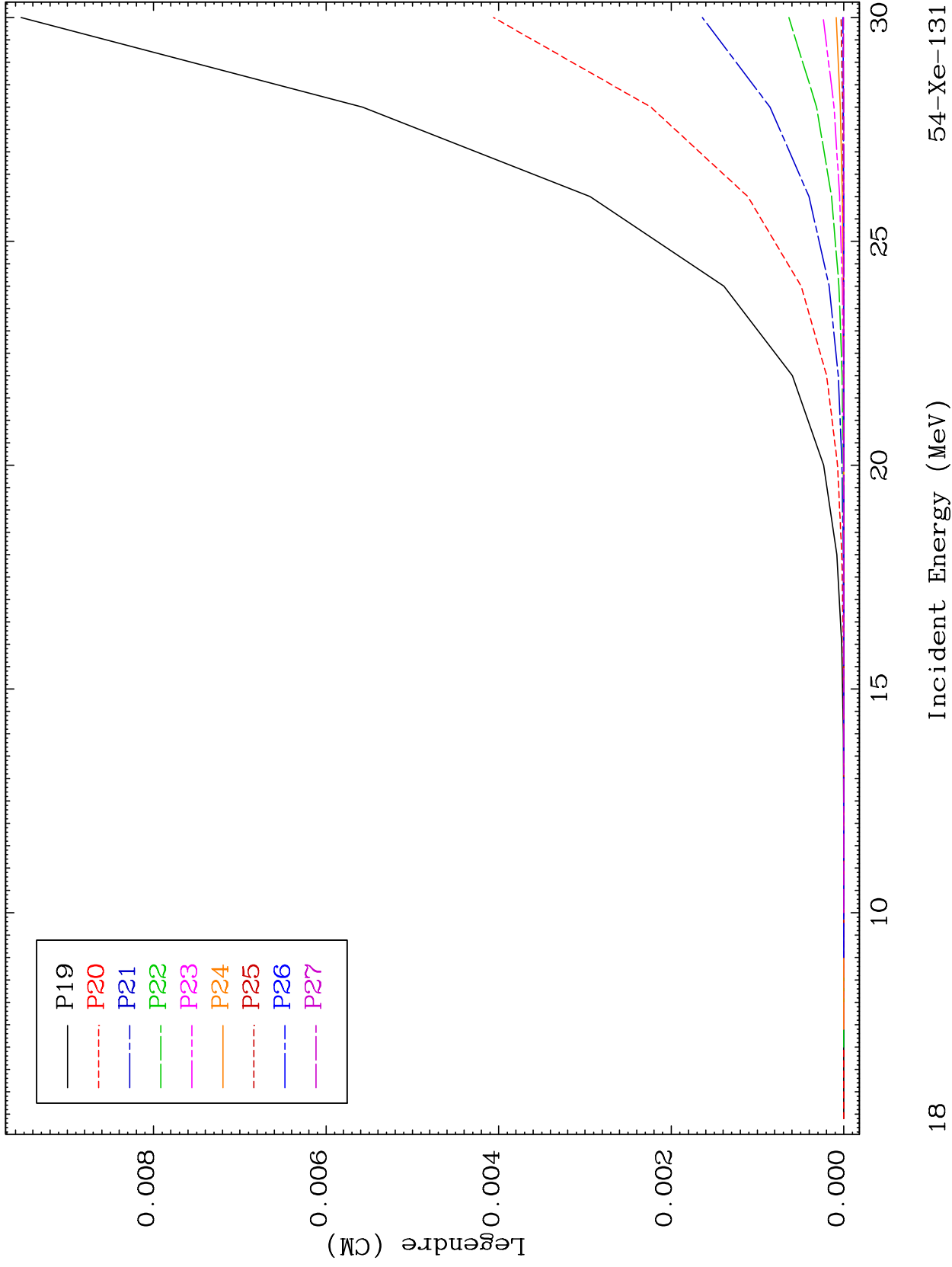
54-Xe-131

Incident Energy (MeV)

MAT 5446

Elastic Legendre Coefficients

54-Xe-131



18

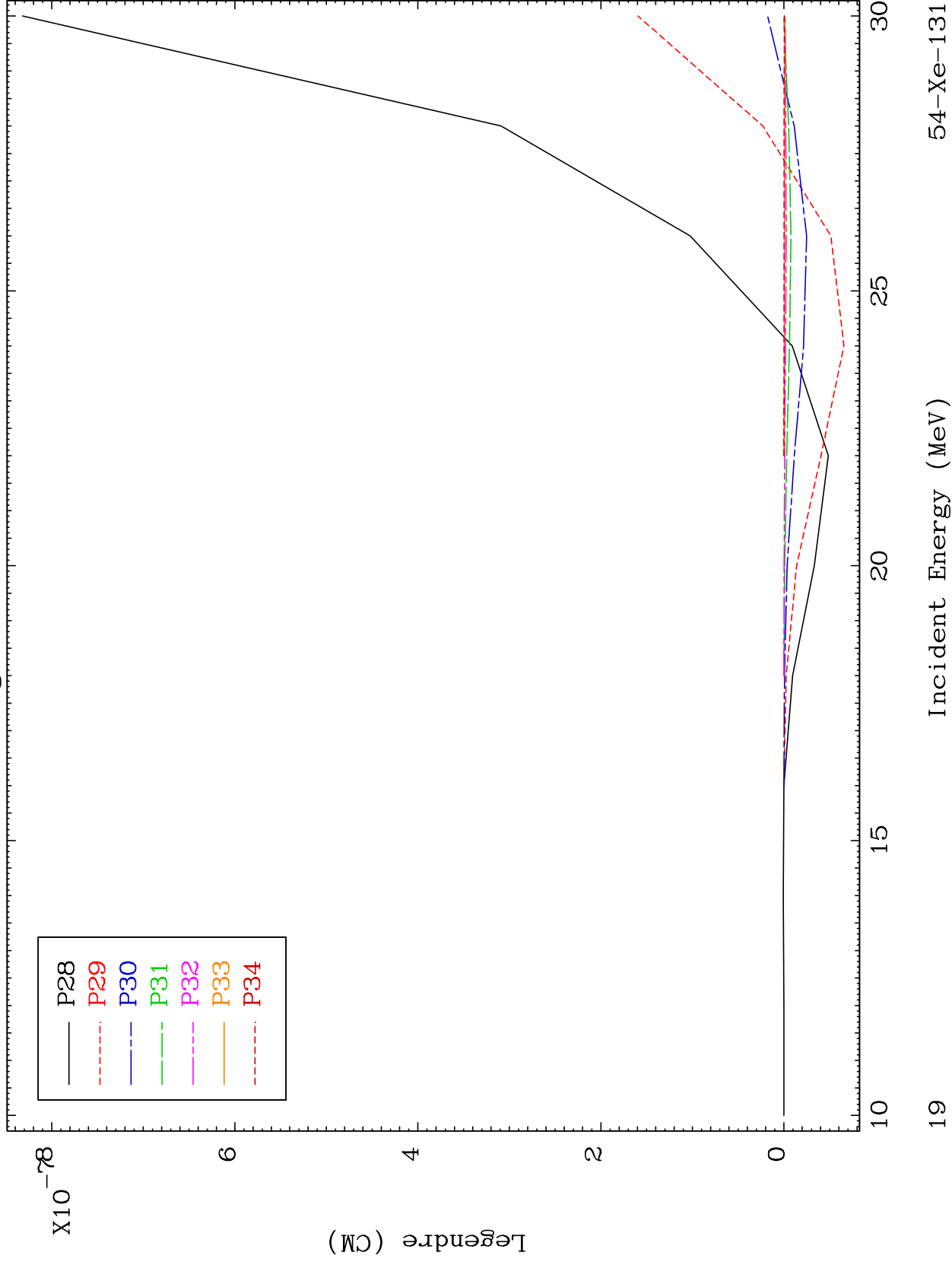
Incident Energy (MeV)

54-Xe-131

MAT 5446

Elastic
Legendre Coefficients

54-Xe-131



19

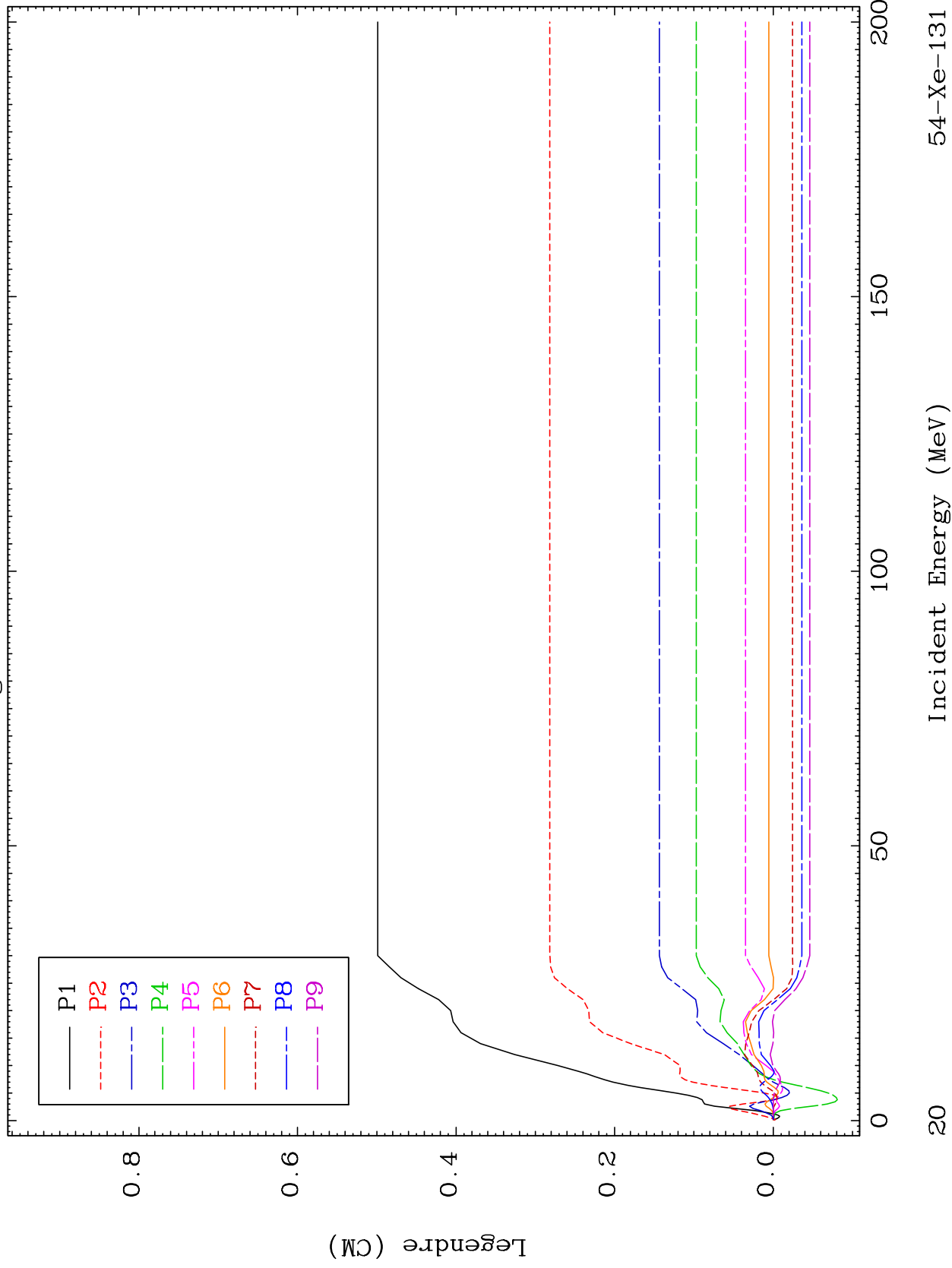
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



54-Xe-131

Incident Energy (MeV)

0

50

100

150

200

Legendre (CM)

0.8

0.6

0.4

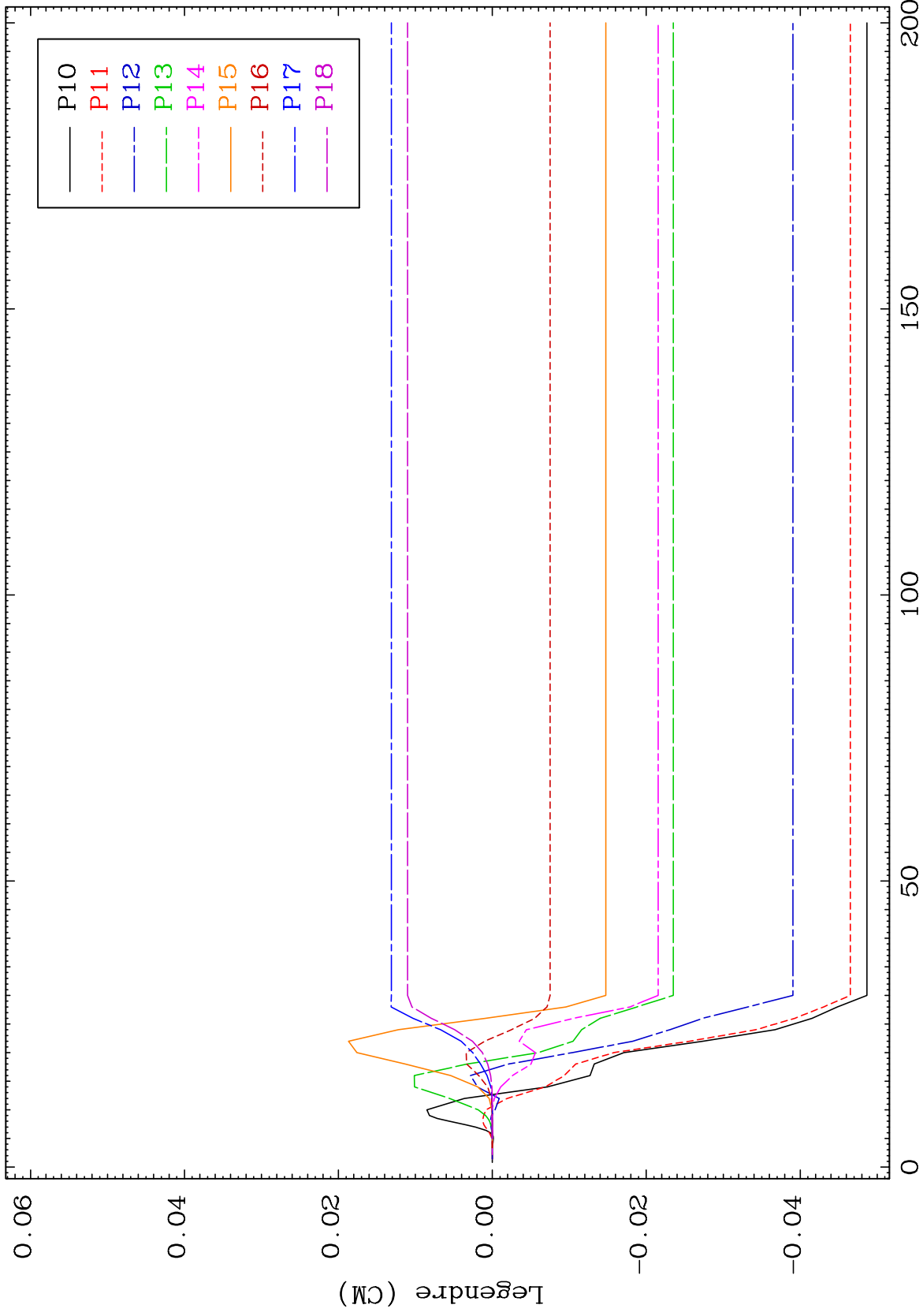
0.2

0.0

MAT 5446

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

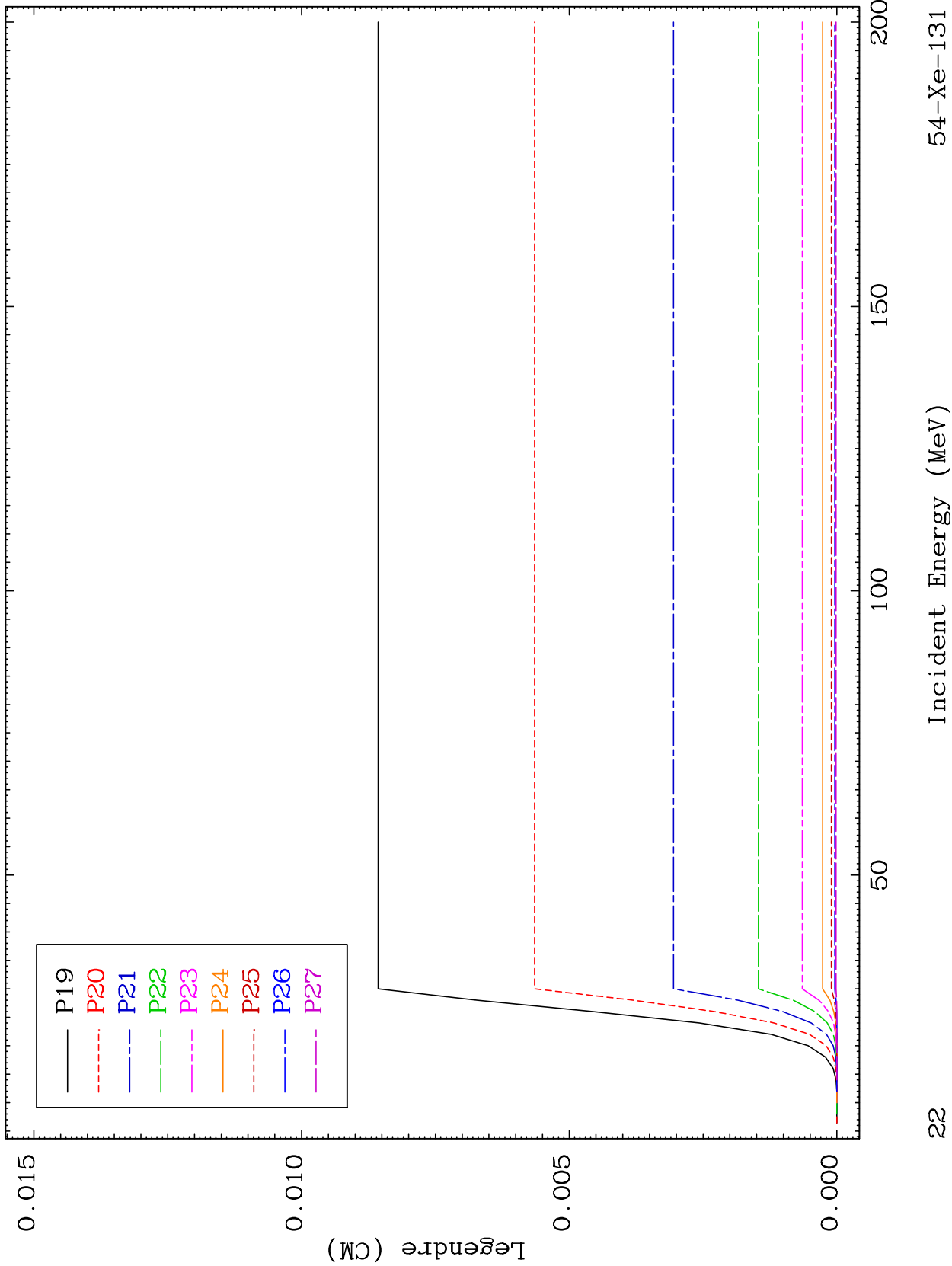
54-Xe-131



21

Incident Energy (MeV)

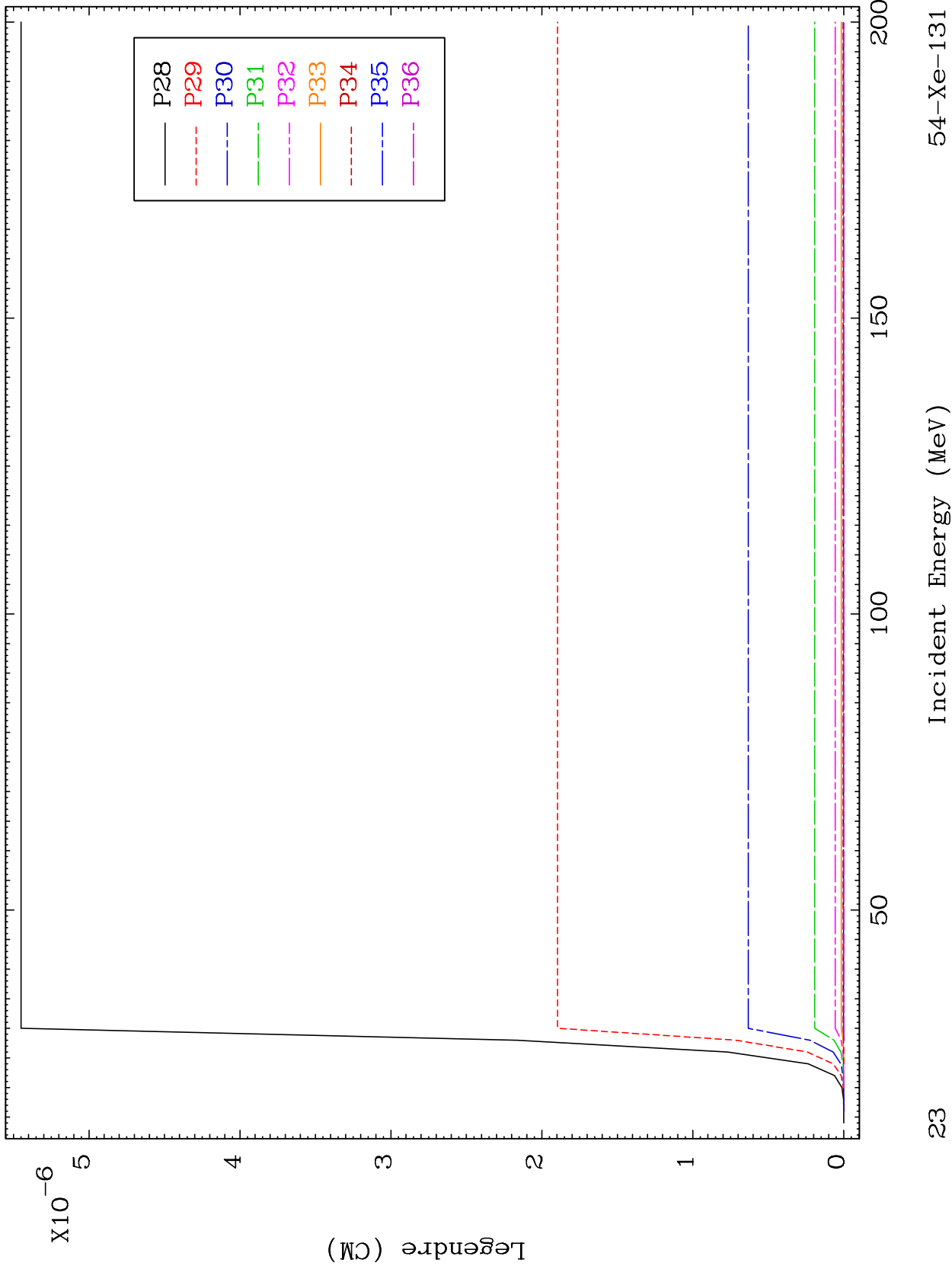
54-Xe-131



MAT 5446

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

54-Xe-131

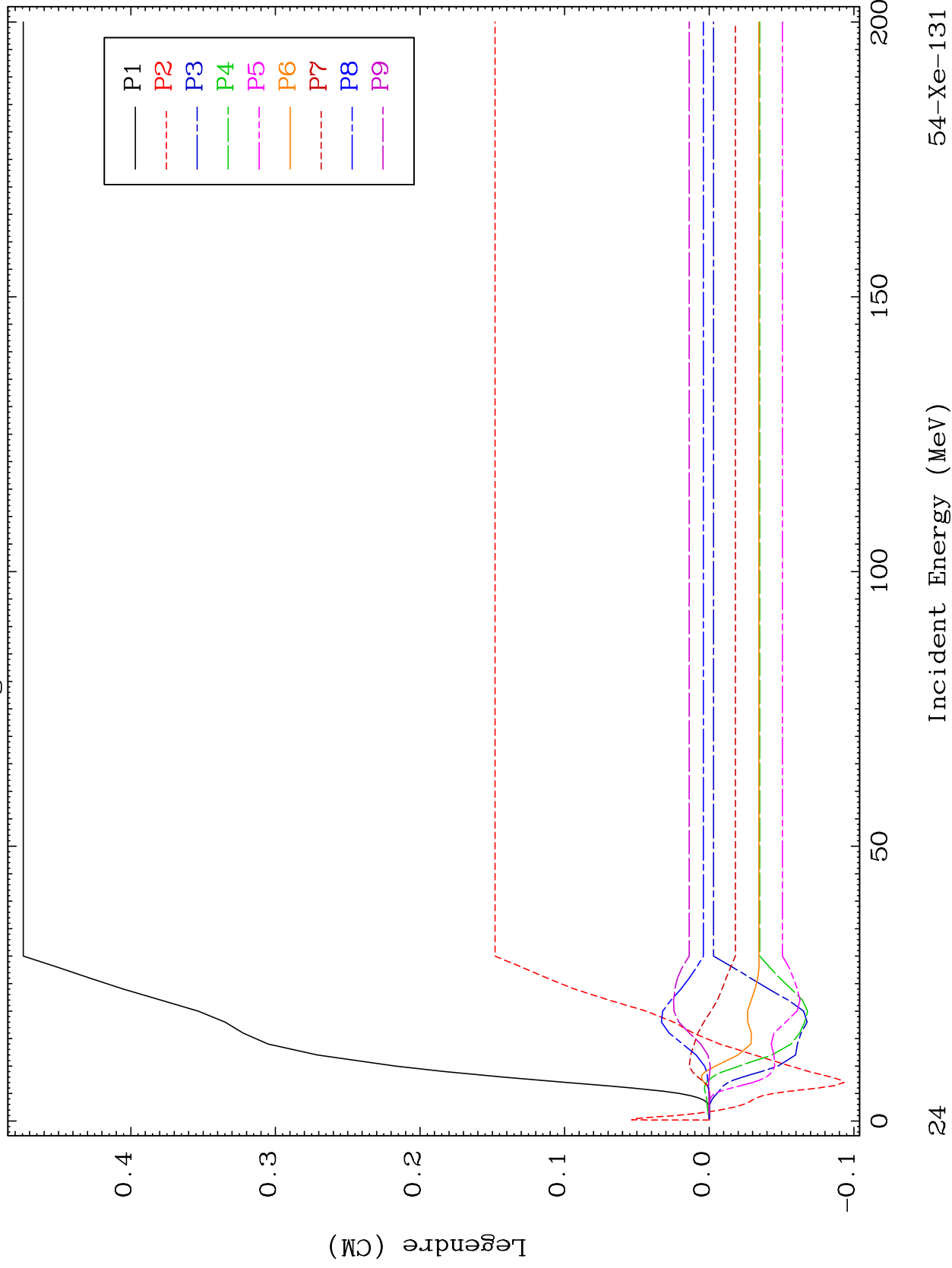


23

MAT 5446

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

54-Xe-131



54-Xe-131

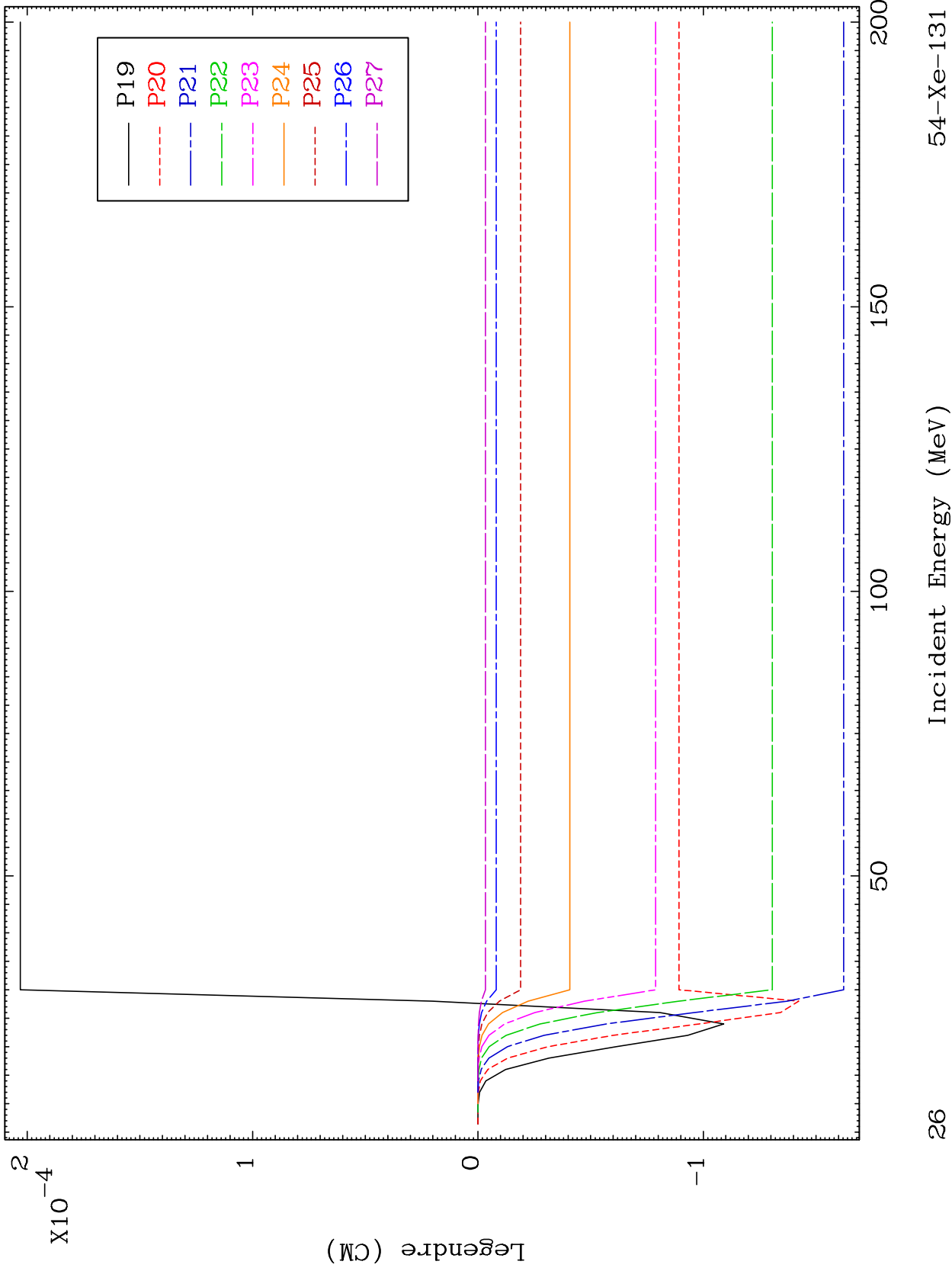
Incident Energy (MeV)

24

MAT 5446

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

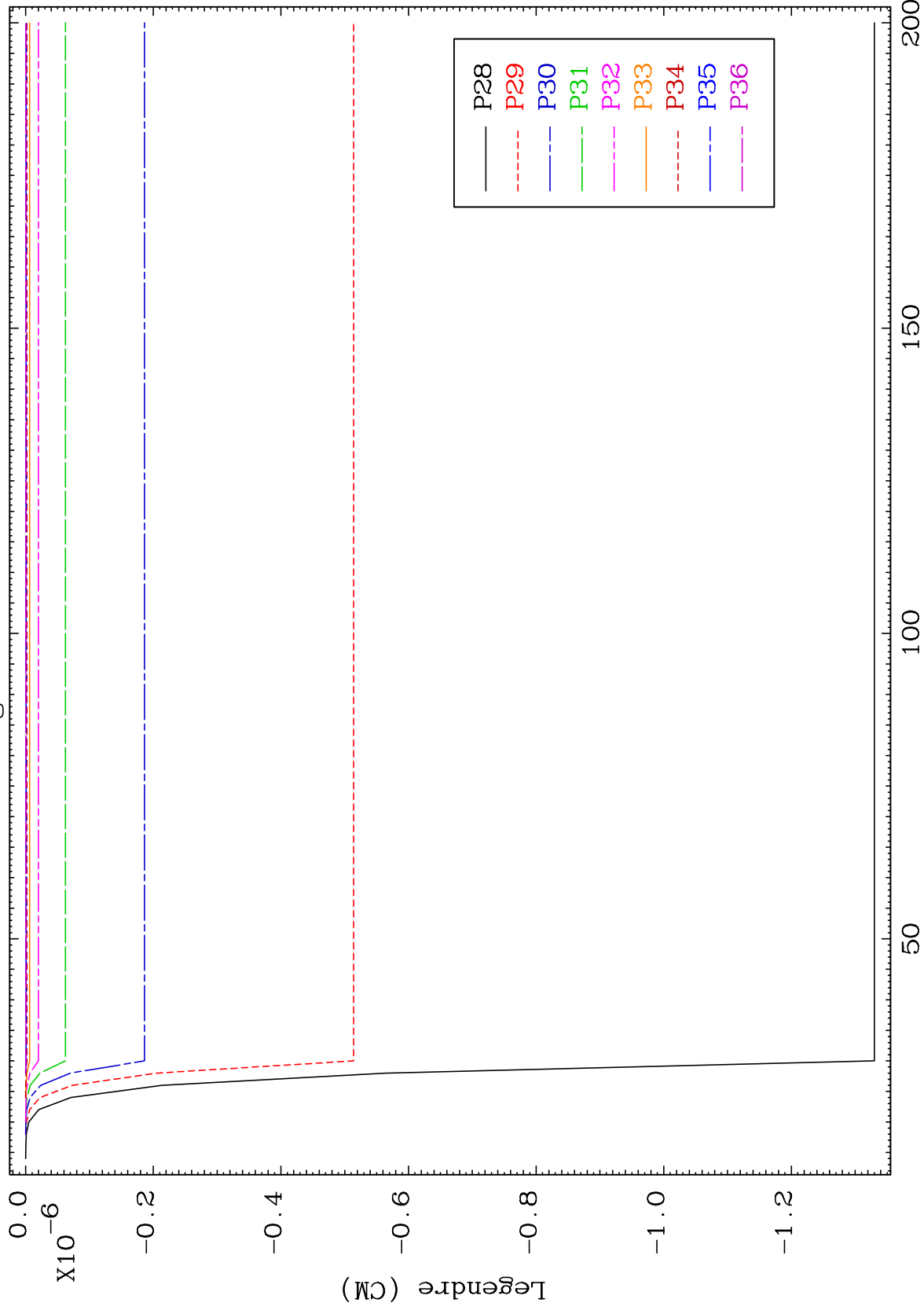
54-Xe-131



MAT 5446

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

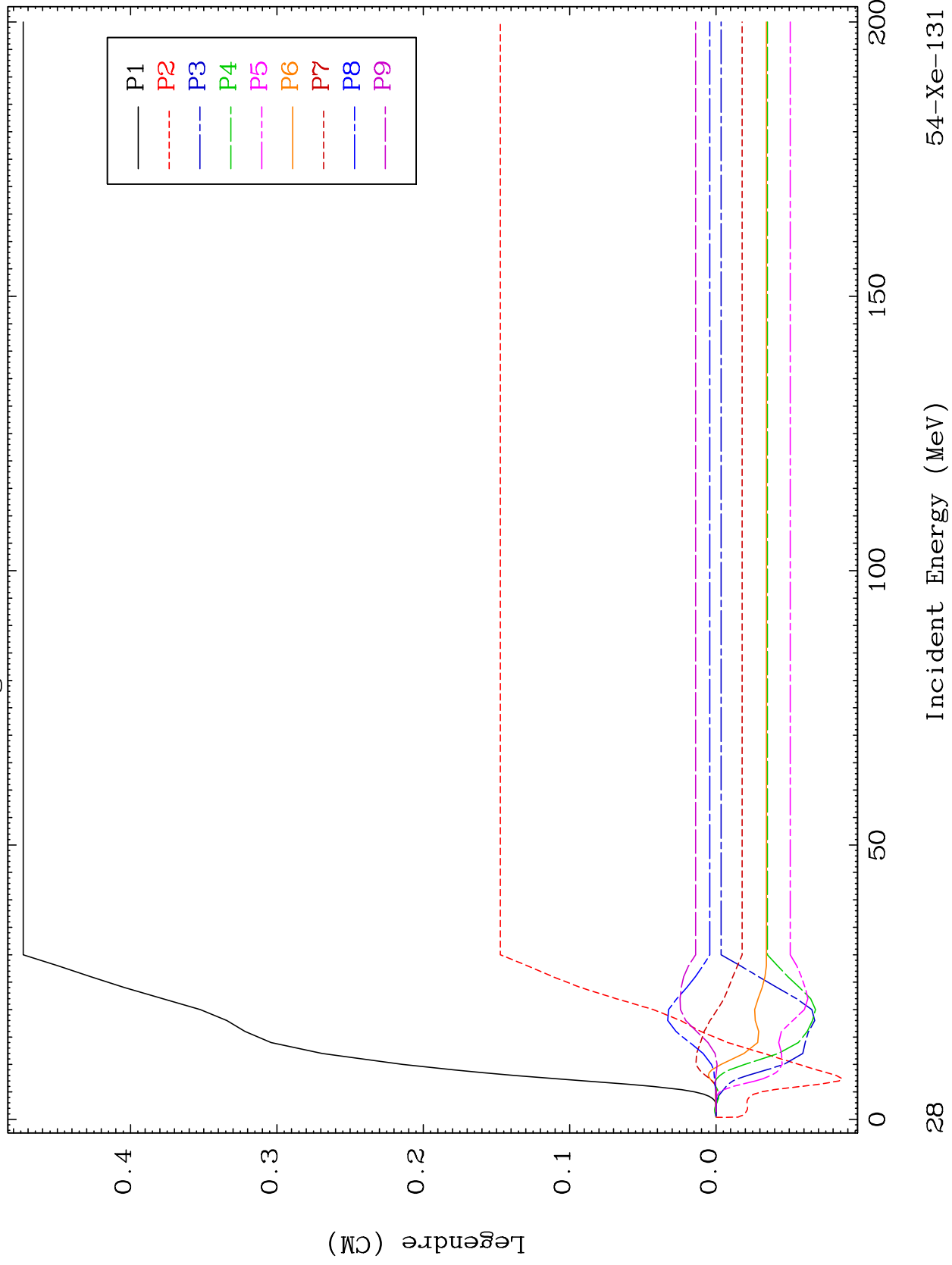
54-Xe-131



MAT 5446

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

54-Xe-131



54-Xe-131

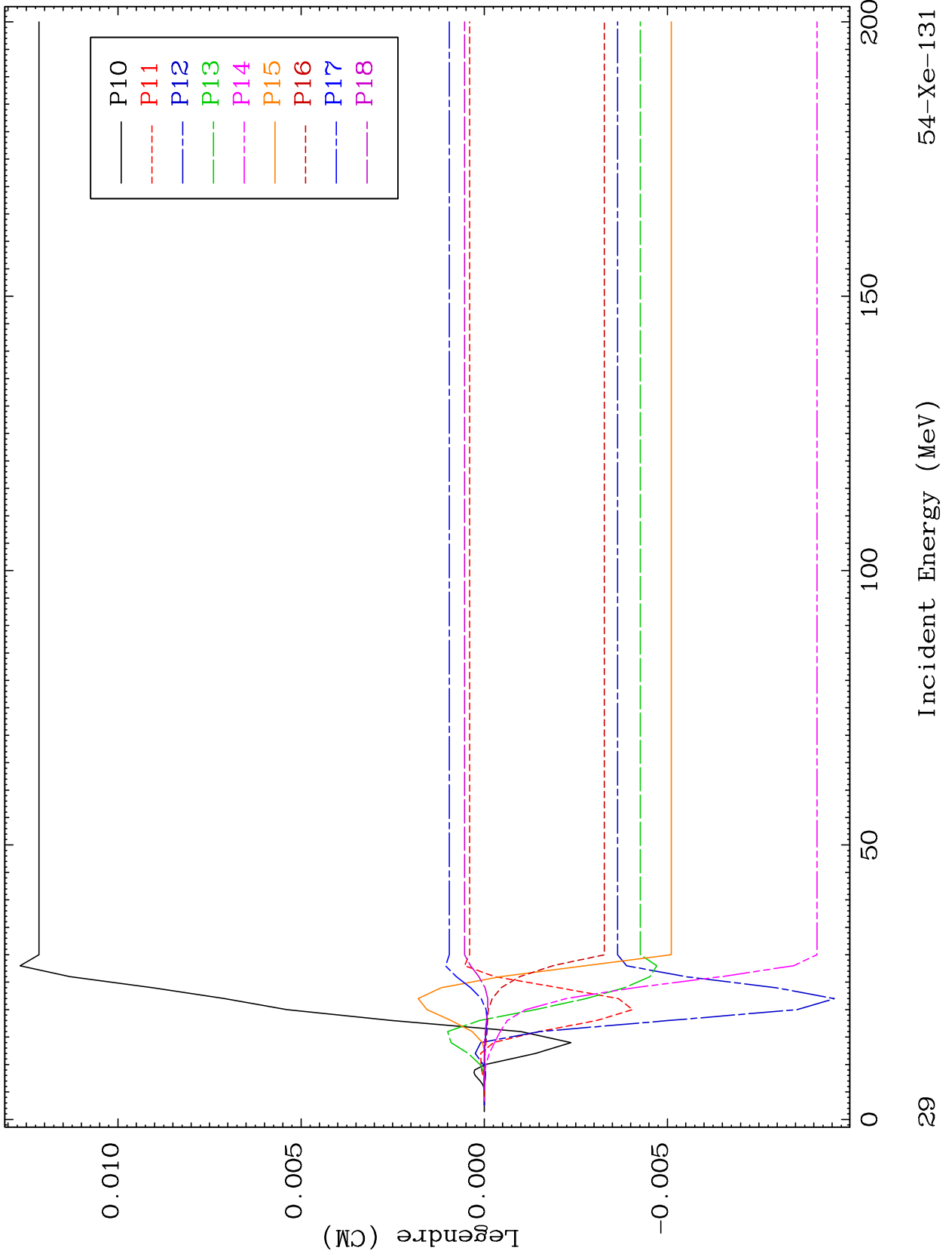
Incident Energy (MeV)

28

MAT 5446

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

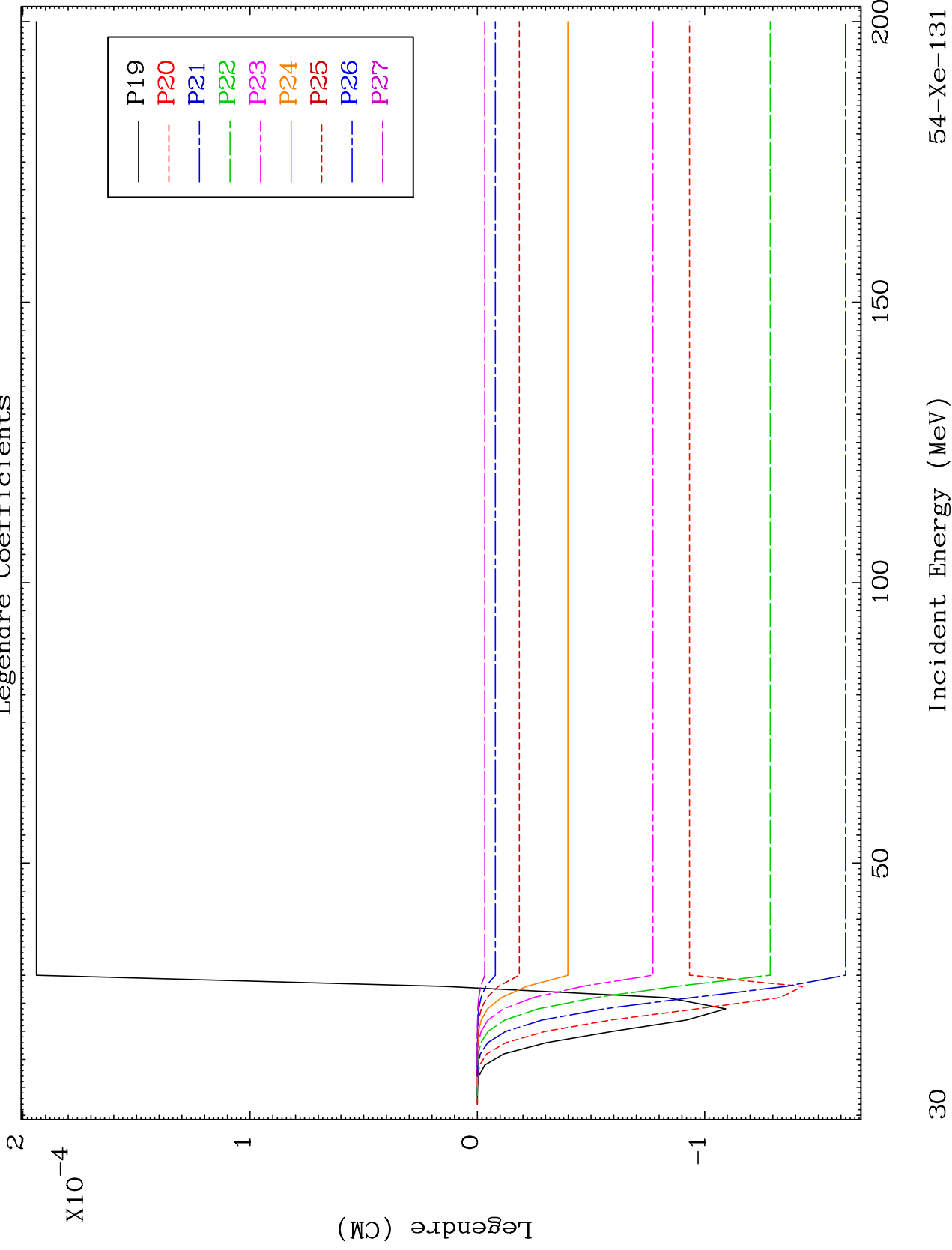
54-Xe-131



MAT 5446

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

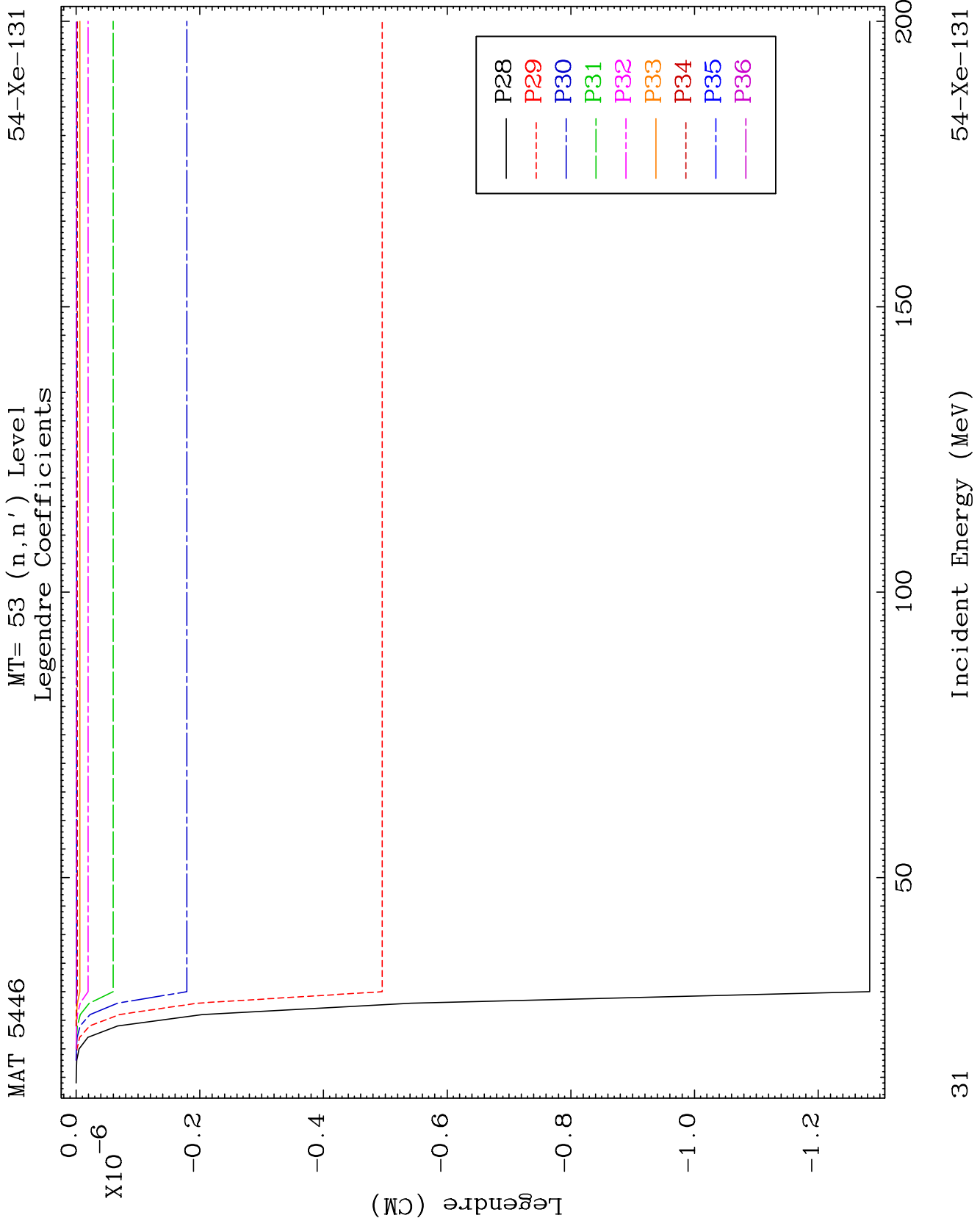
54-Xe-131



54-Xe-131

Incident Energy (MeV)

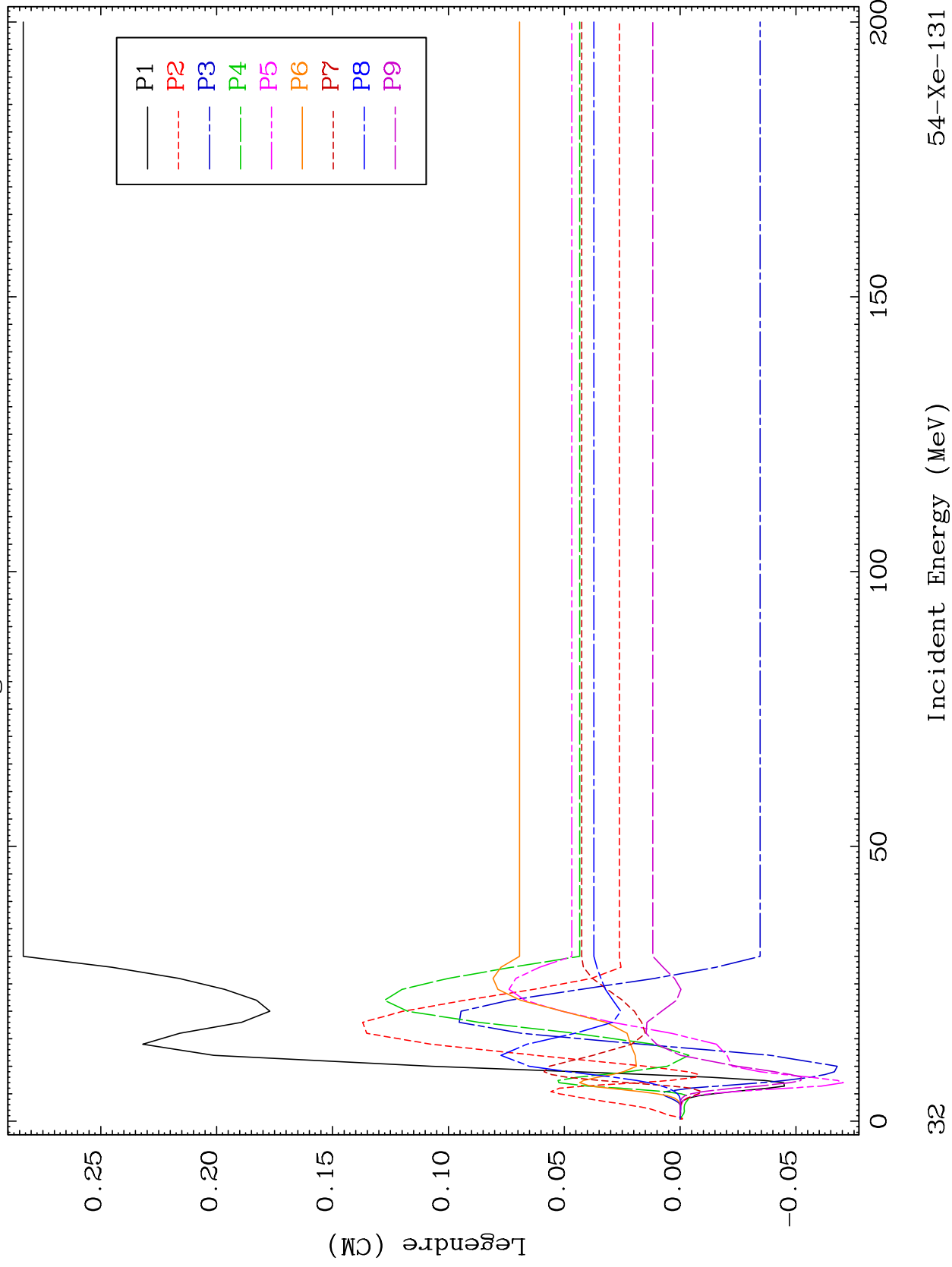
30



MAT 5446

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

54-Xe-131



54-Xe-131

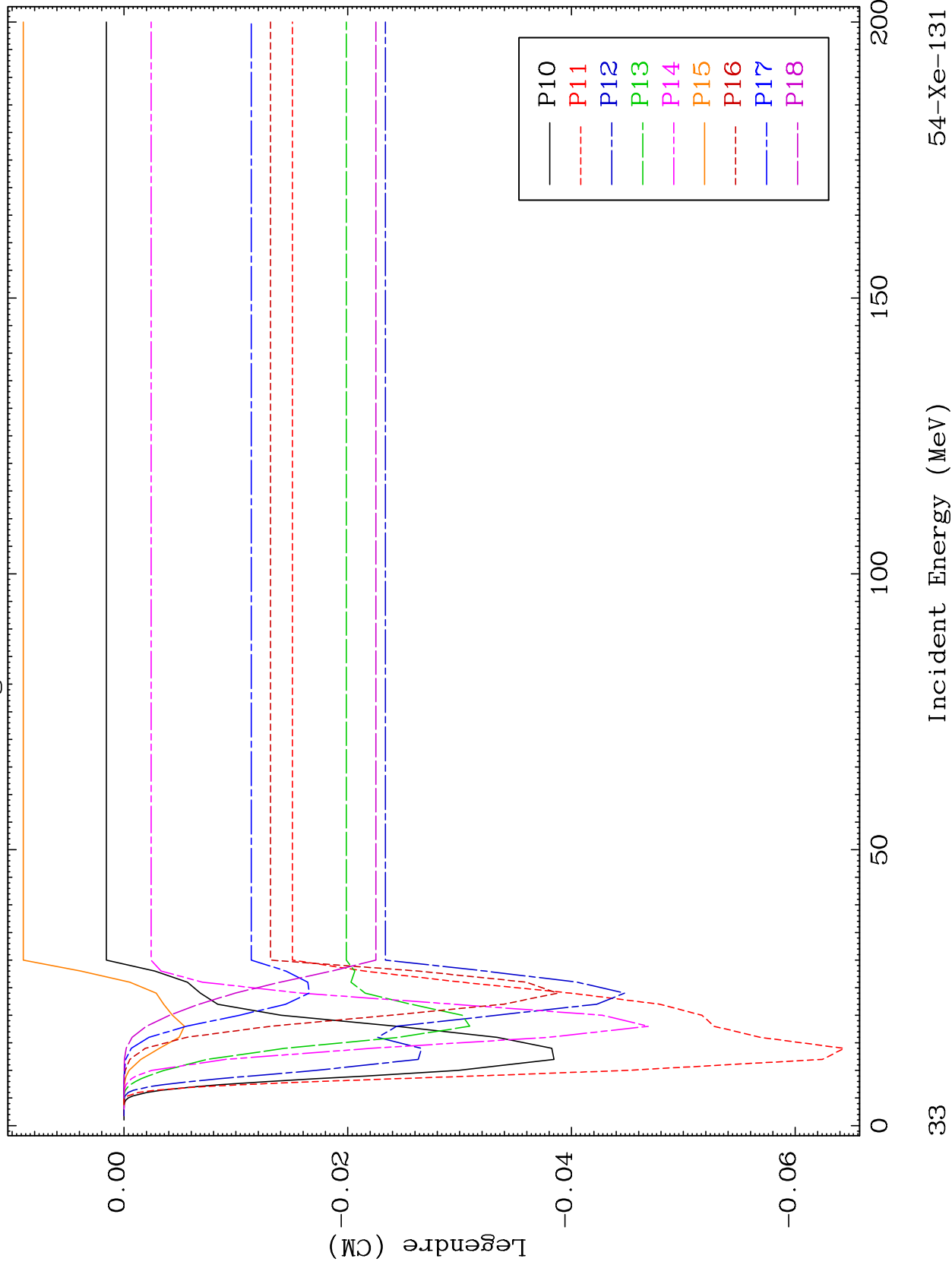
Incident Energy (MeV)

32

MAT 5446

54-Xe-131

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



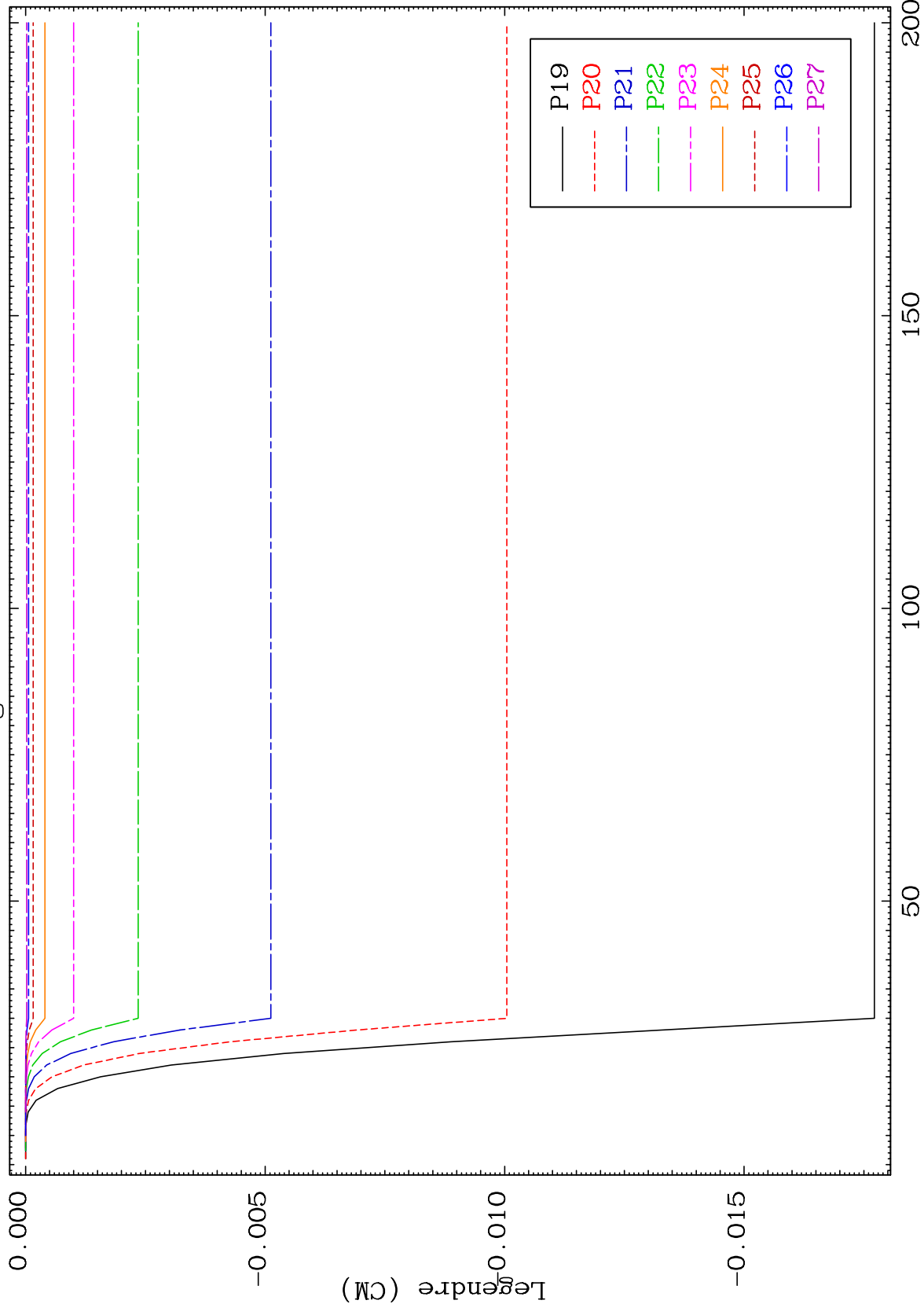
33

54-Xe-131

MAT 5446

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

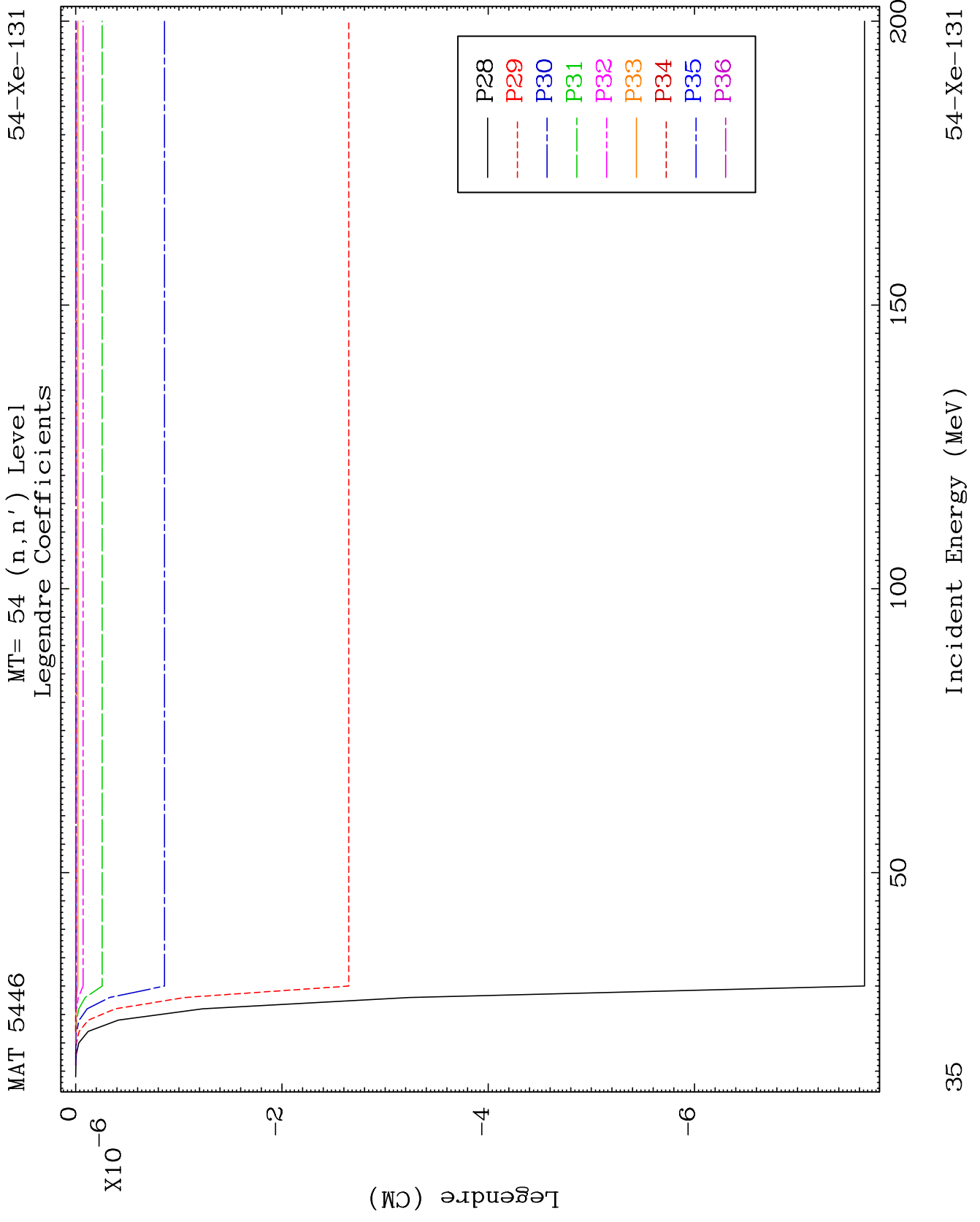
54-Xe-131

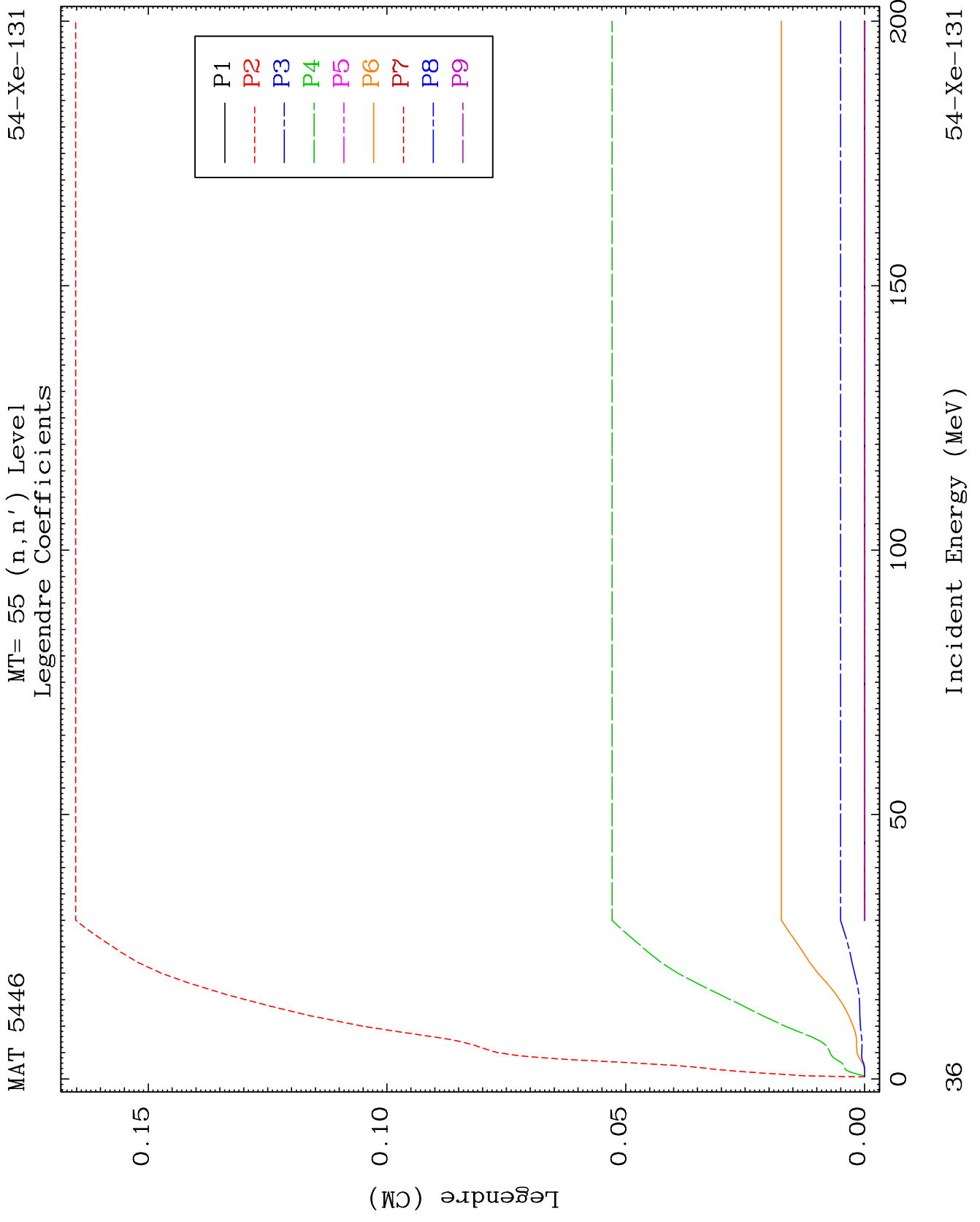


34

Incident Energy (MeV)

54-Xe-131

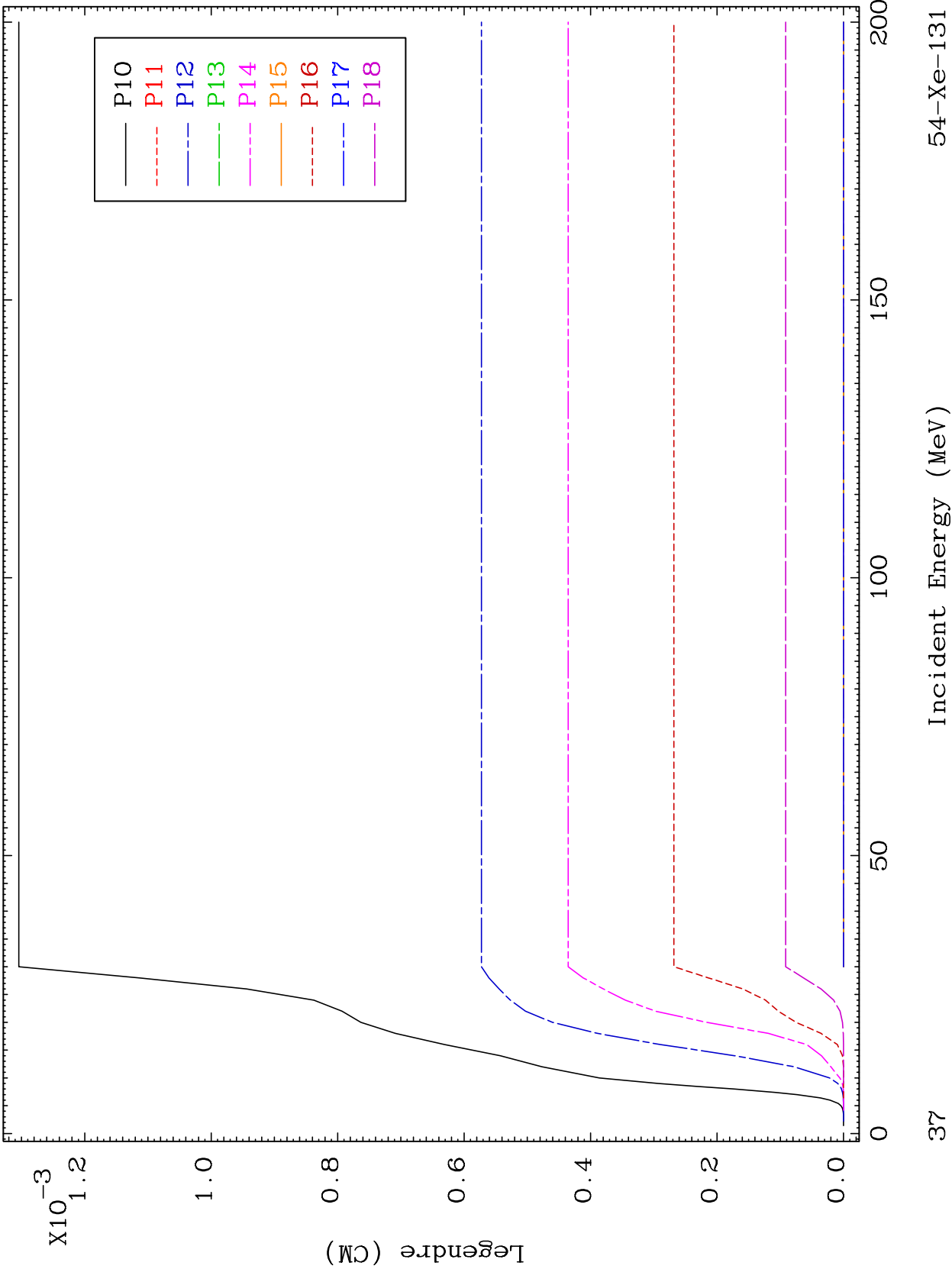




MAT 5446

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

54-Xe-131



37

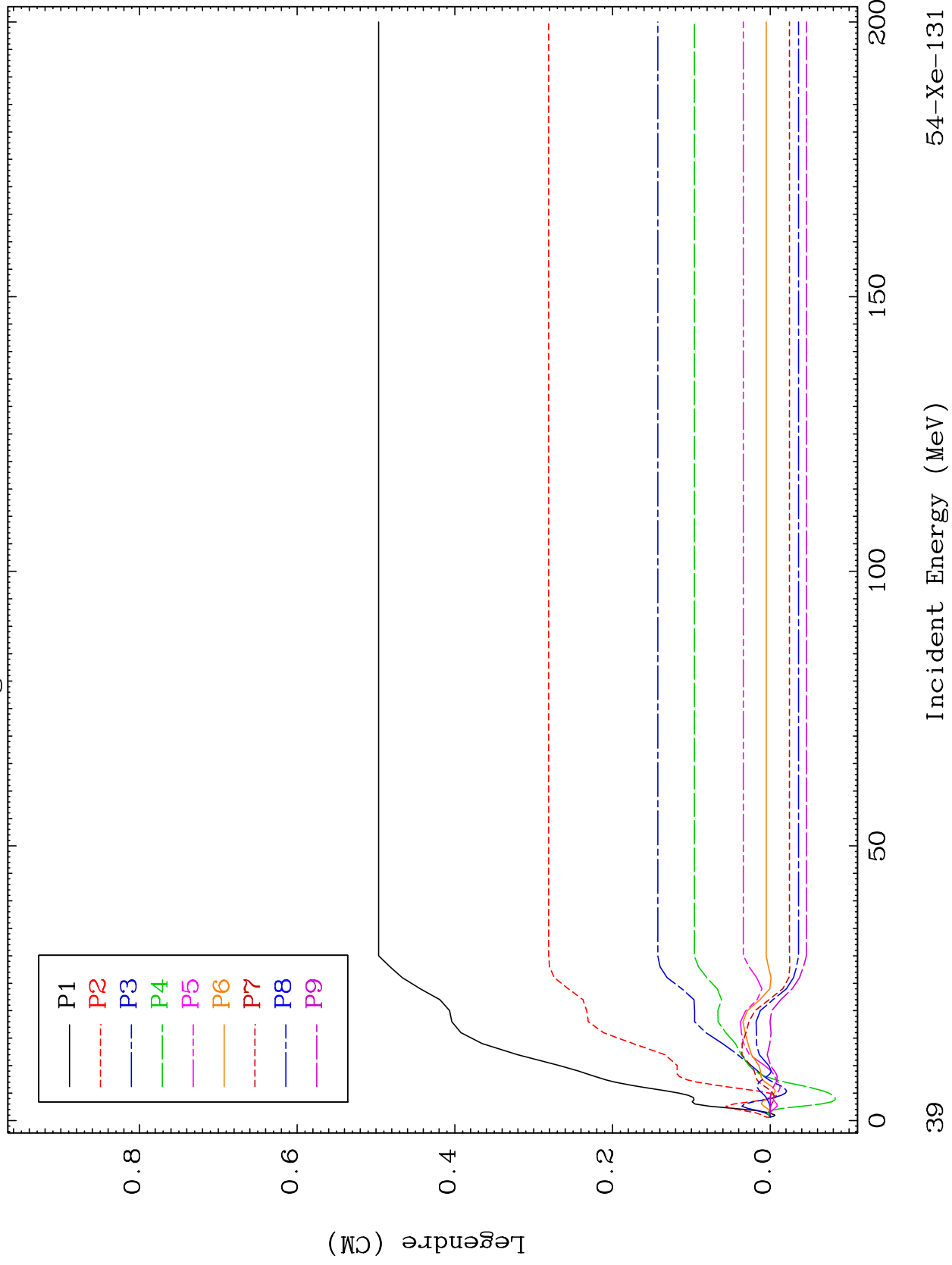
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



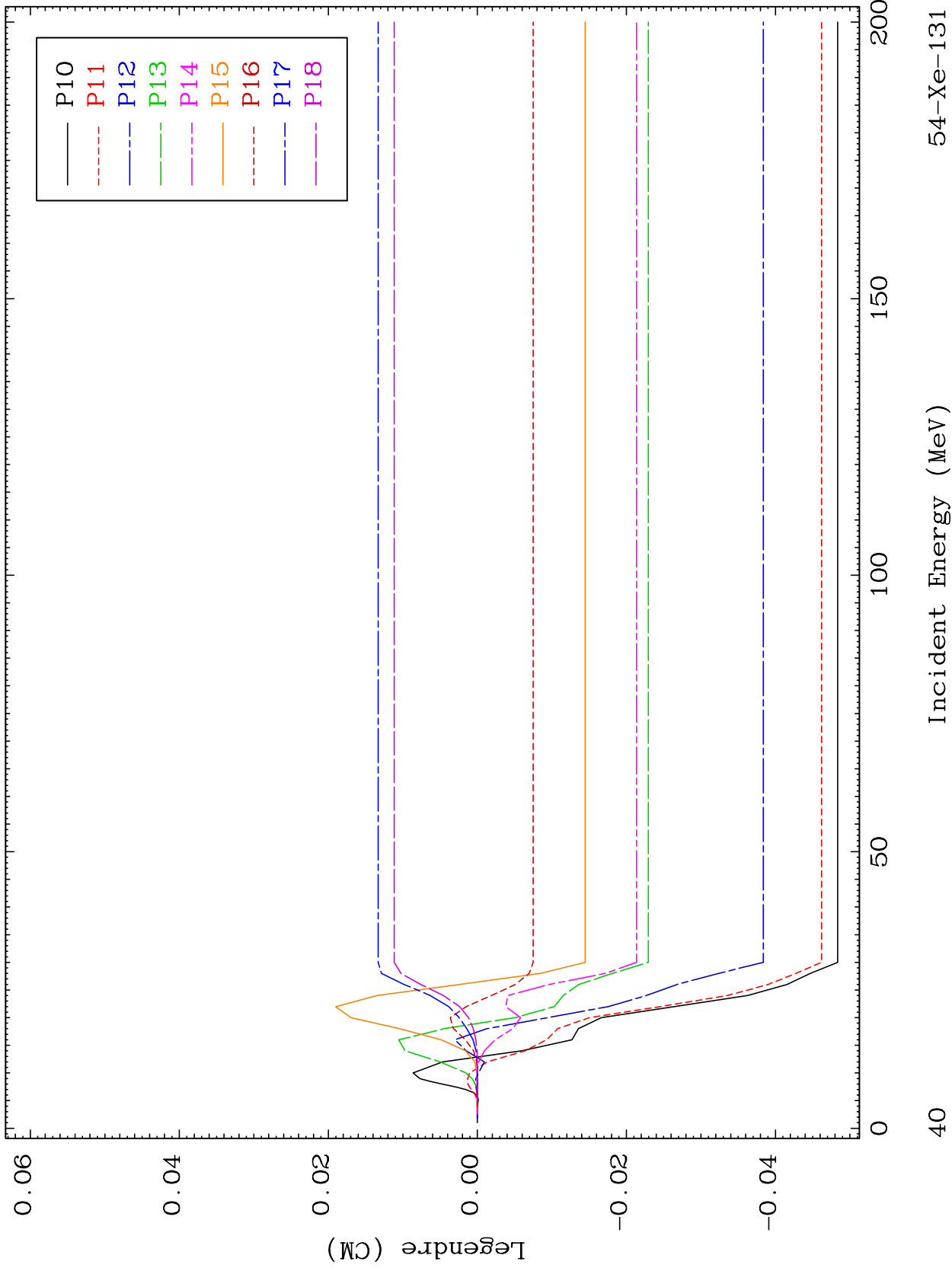
39

54-Xe-131

MAT 5446

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

54-Xe-131



54-Xe-131

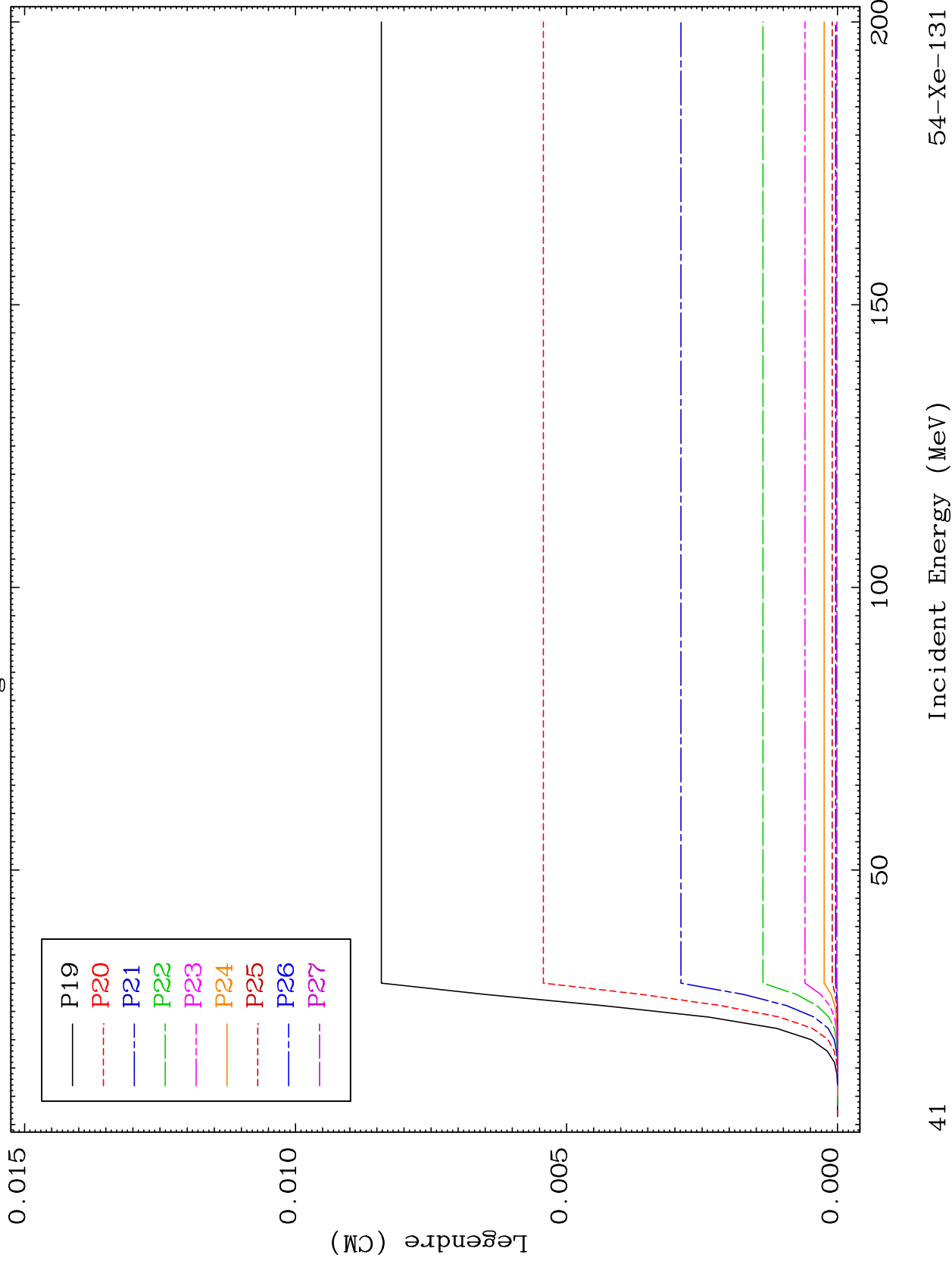
Incident Energy (MeV)

40

MAT 5446

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

54-Xe-131



41

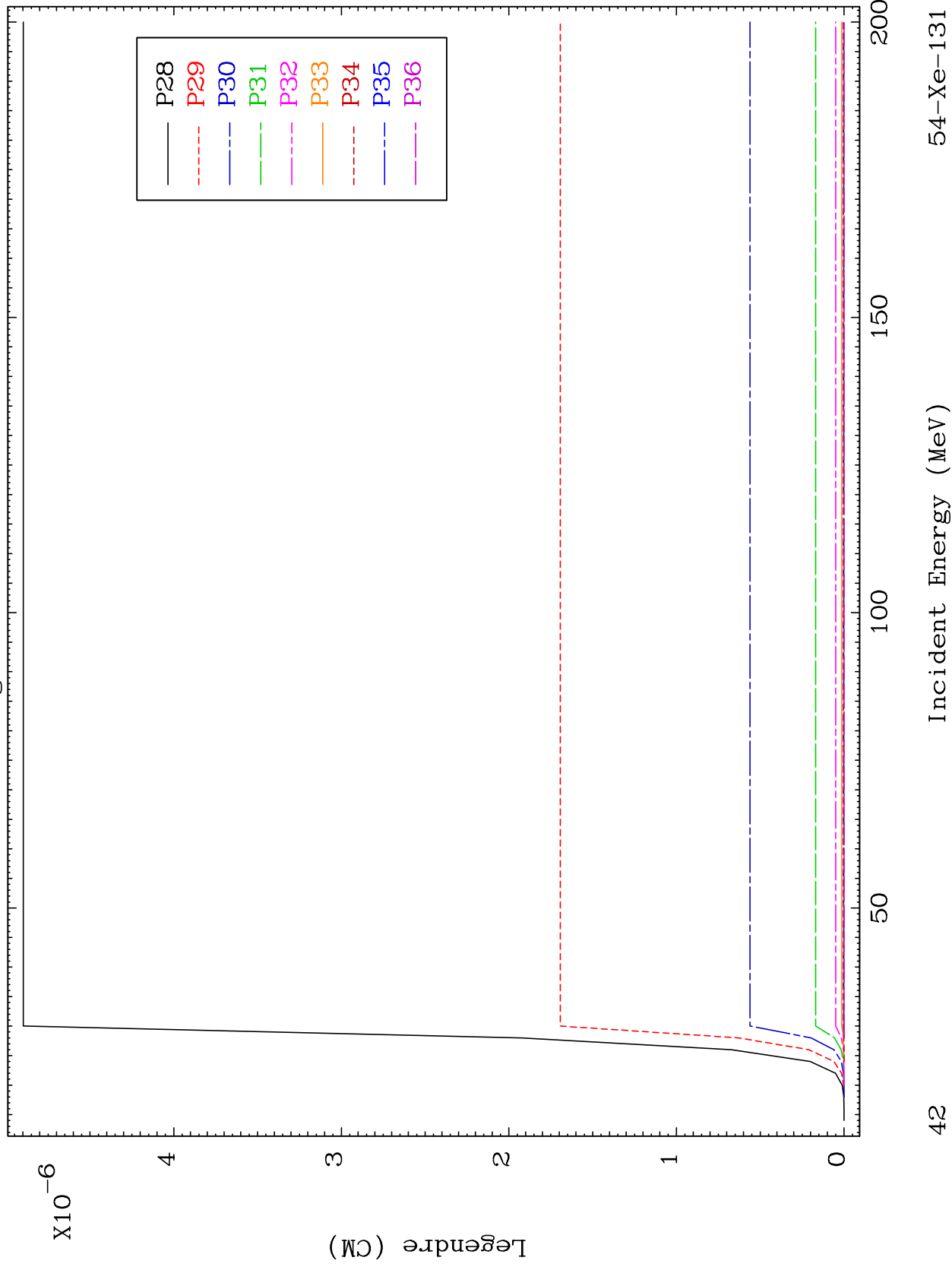
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

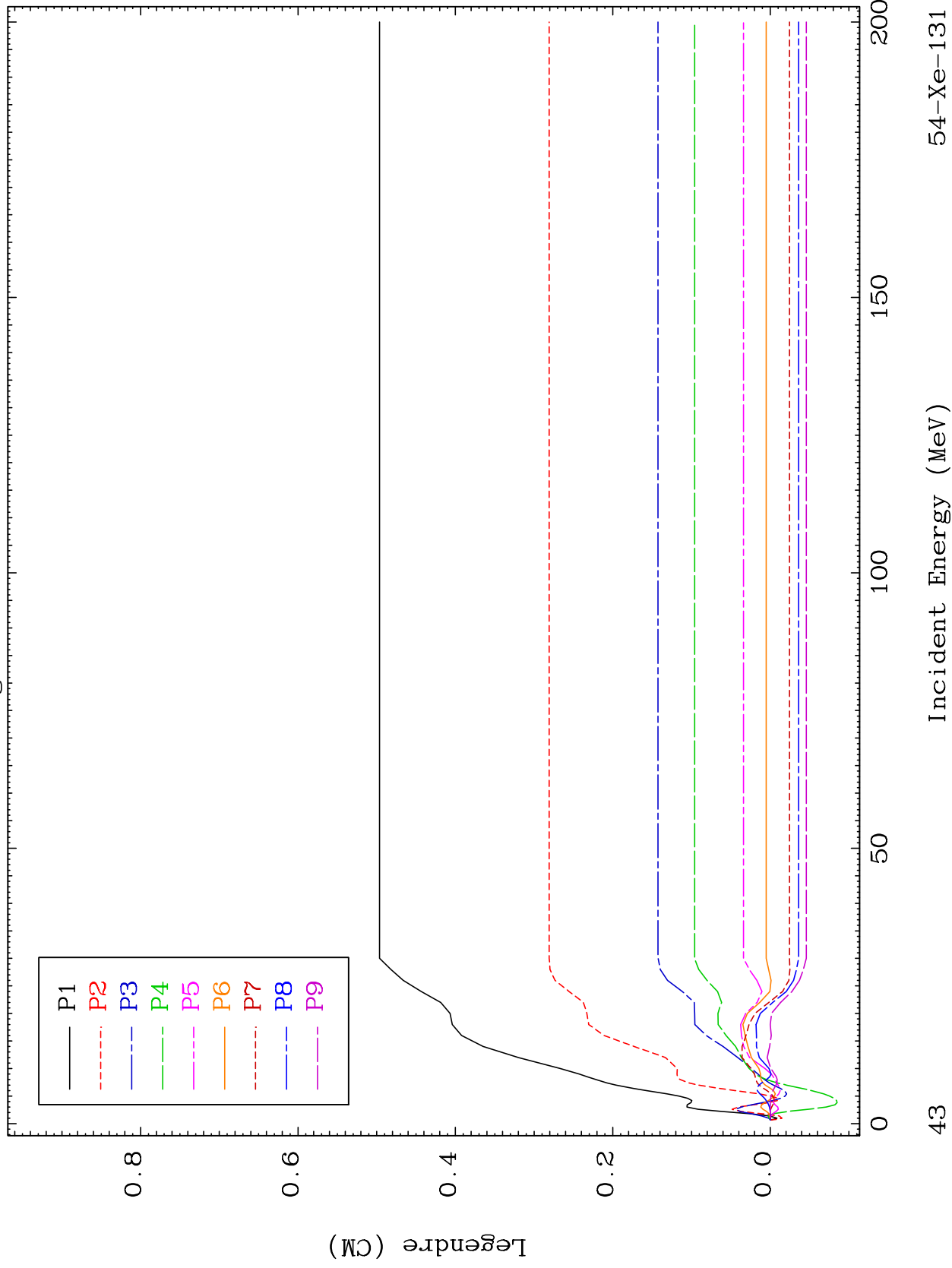
54-Xe-131



MAT 5446

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

54-Xe-131



54-Xe-131

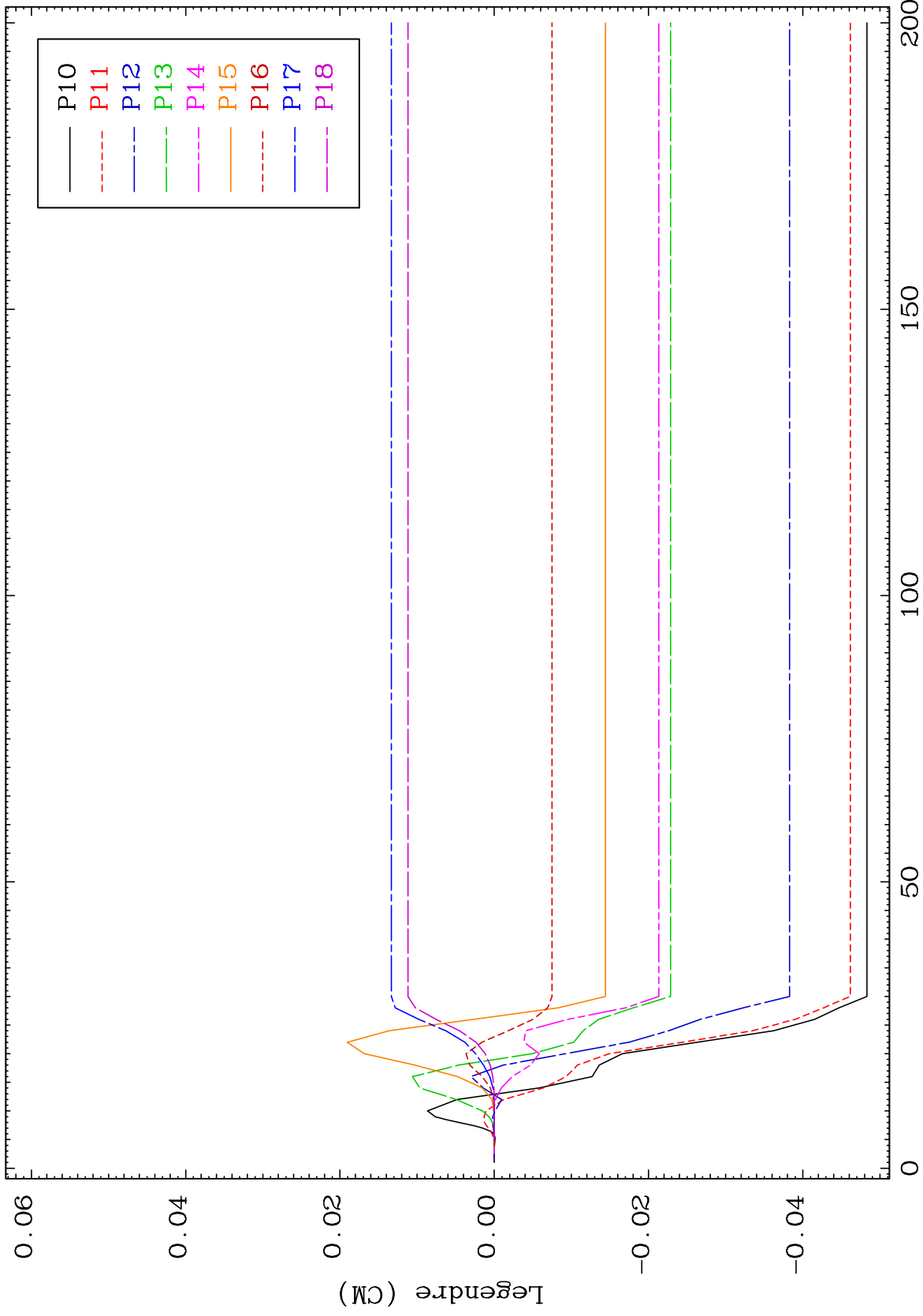
Incident Energy (MeV)

43

MAT 5446

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

54-Xe-131



44

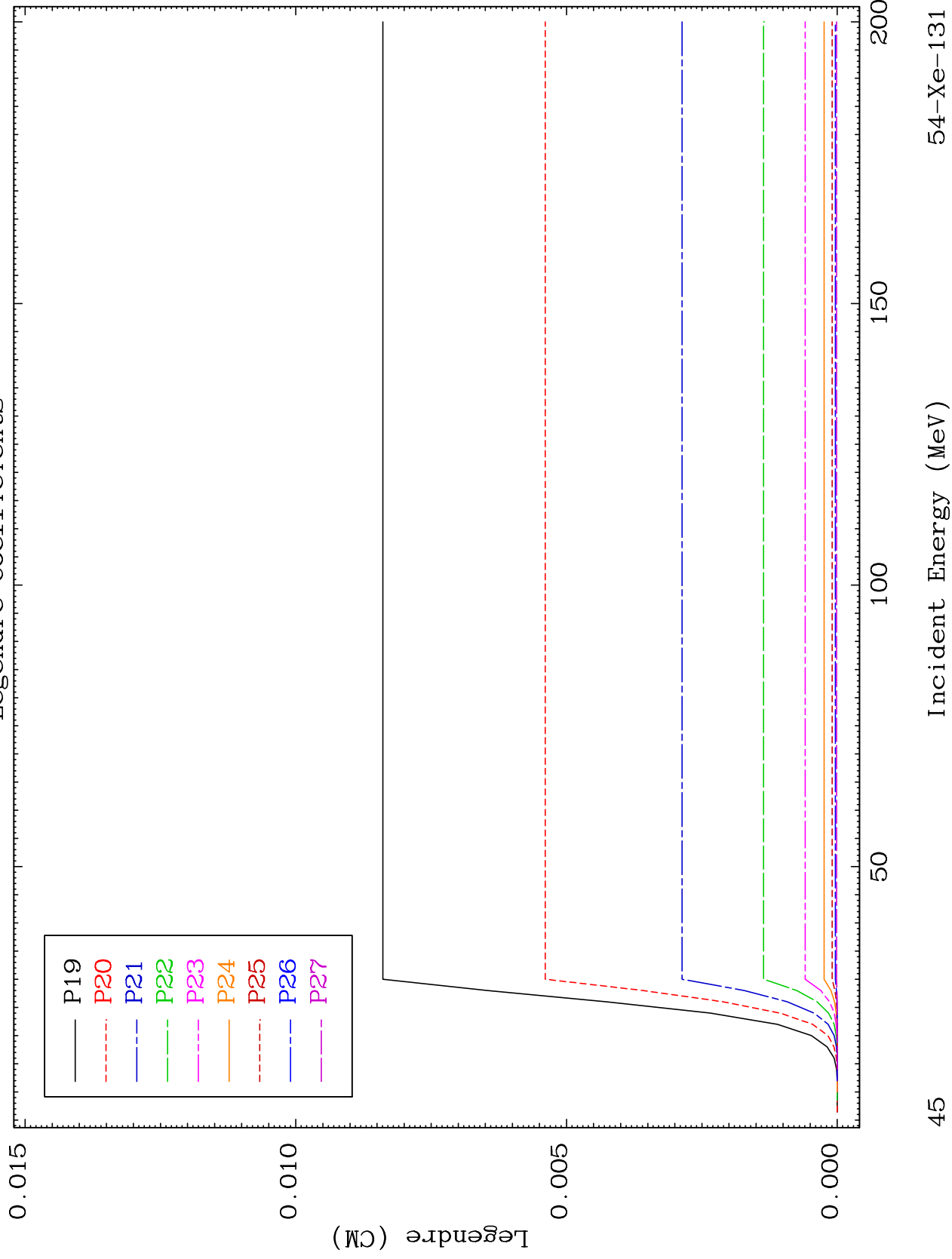
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



45

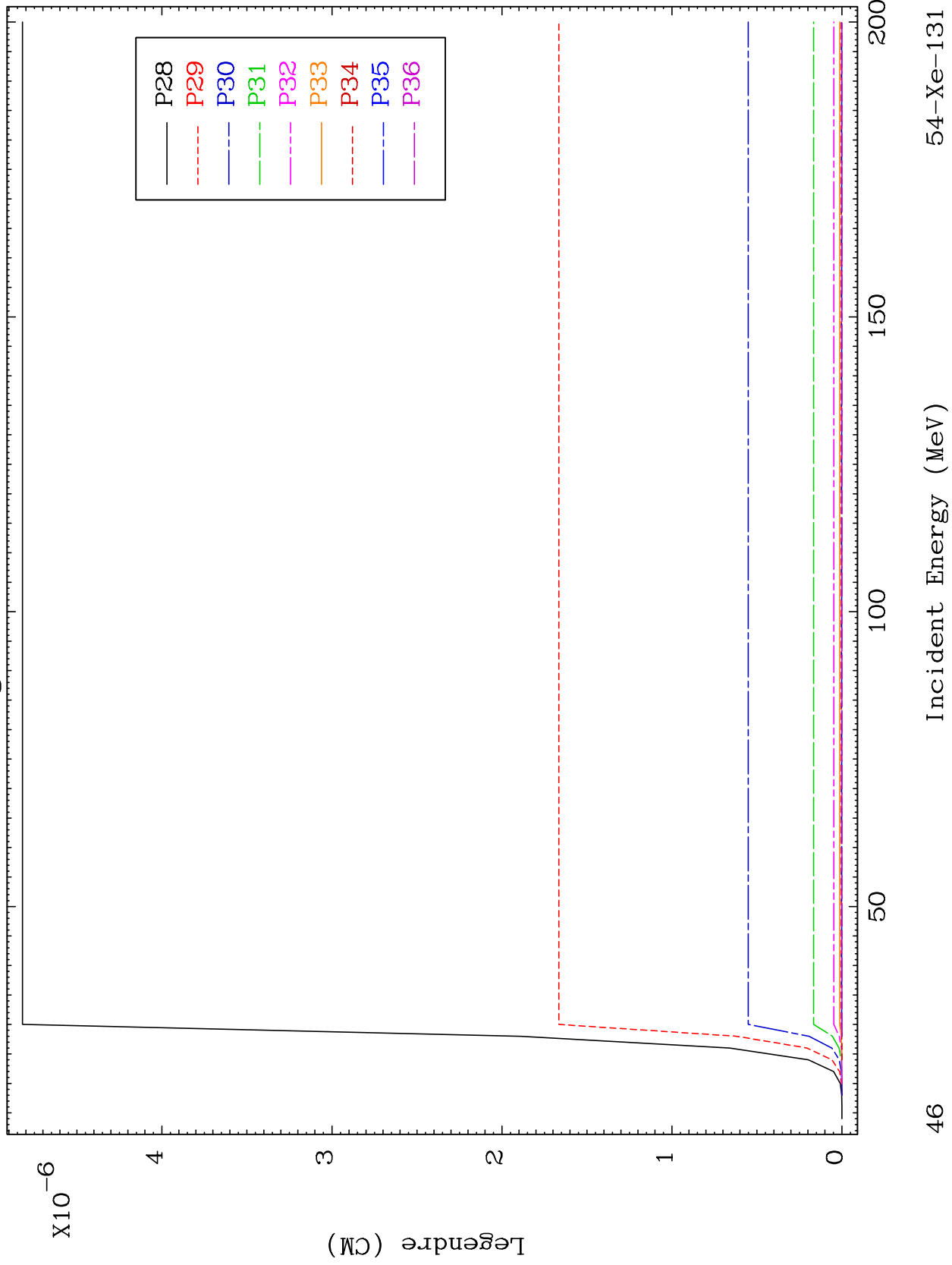
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

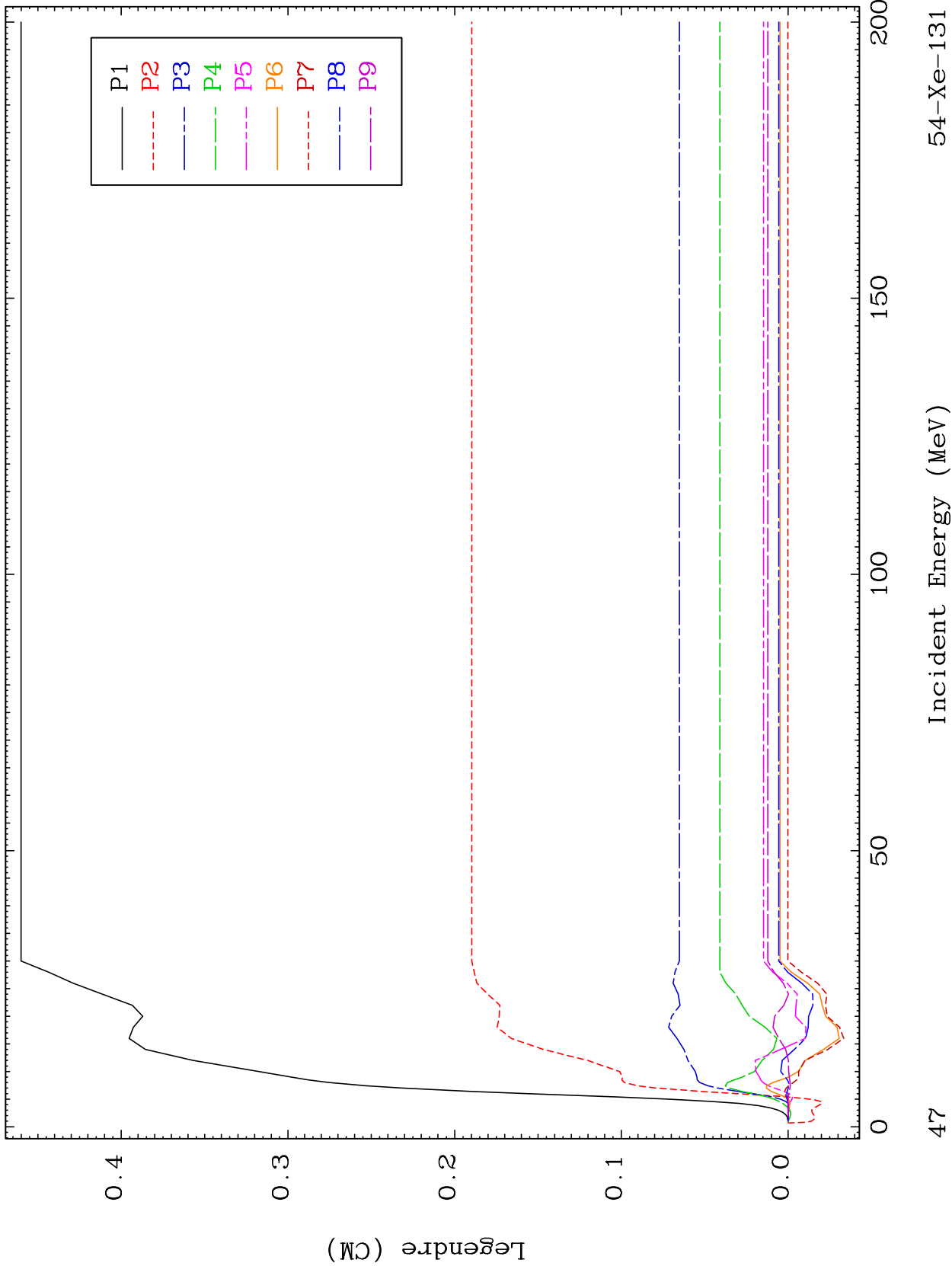
54-Xe-131



MAT 5446

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

54-Xe-131



54-Xe-131

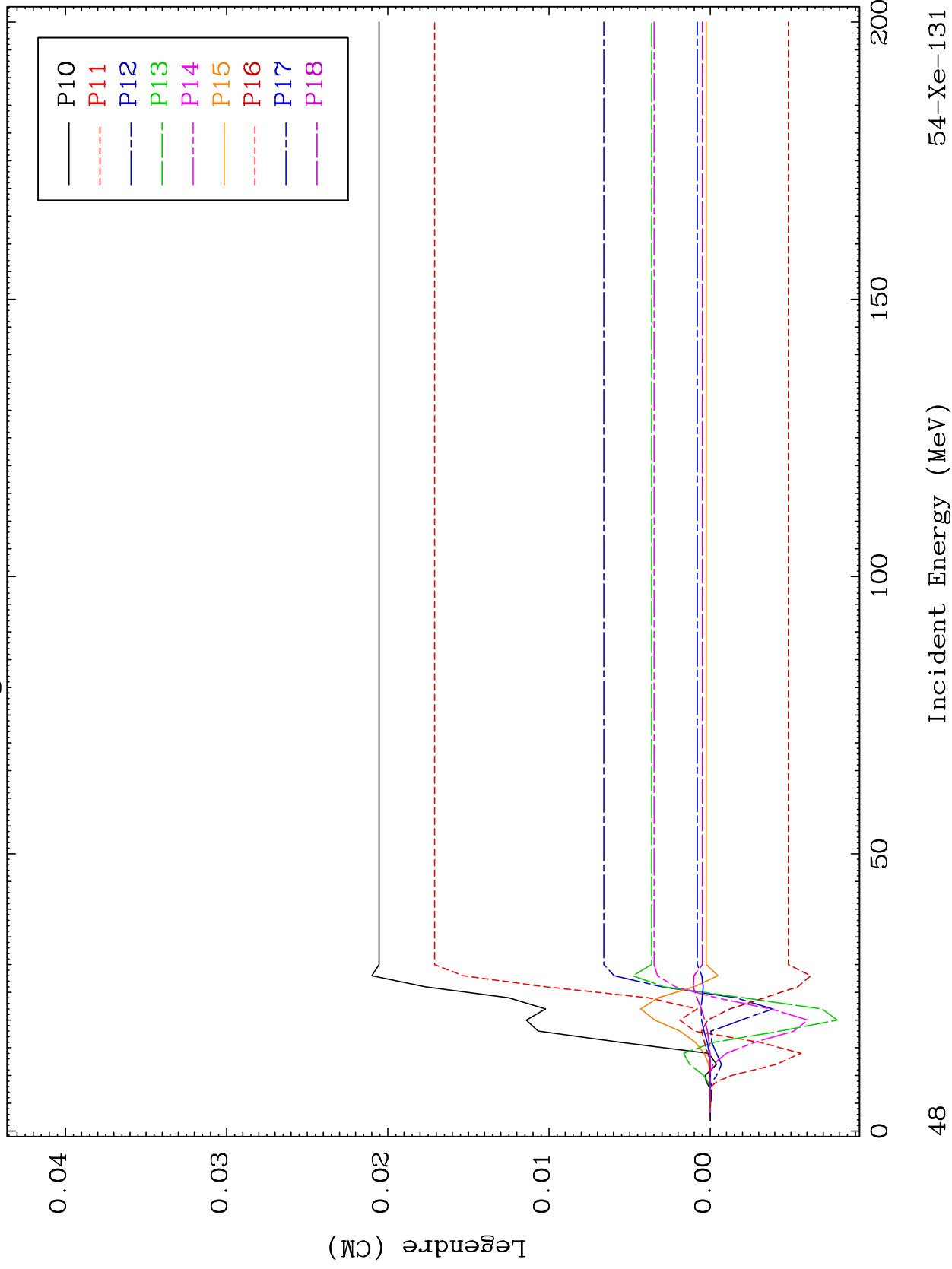
Incident Energy (MeV)

47

MAT 5446

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

54-Xe-131



54-Xe-131

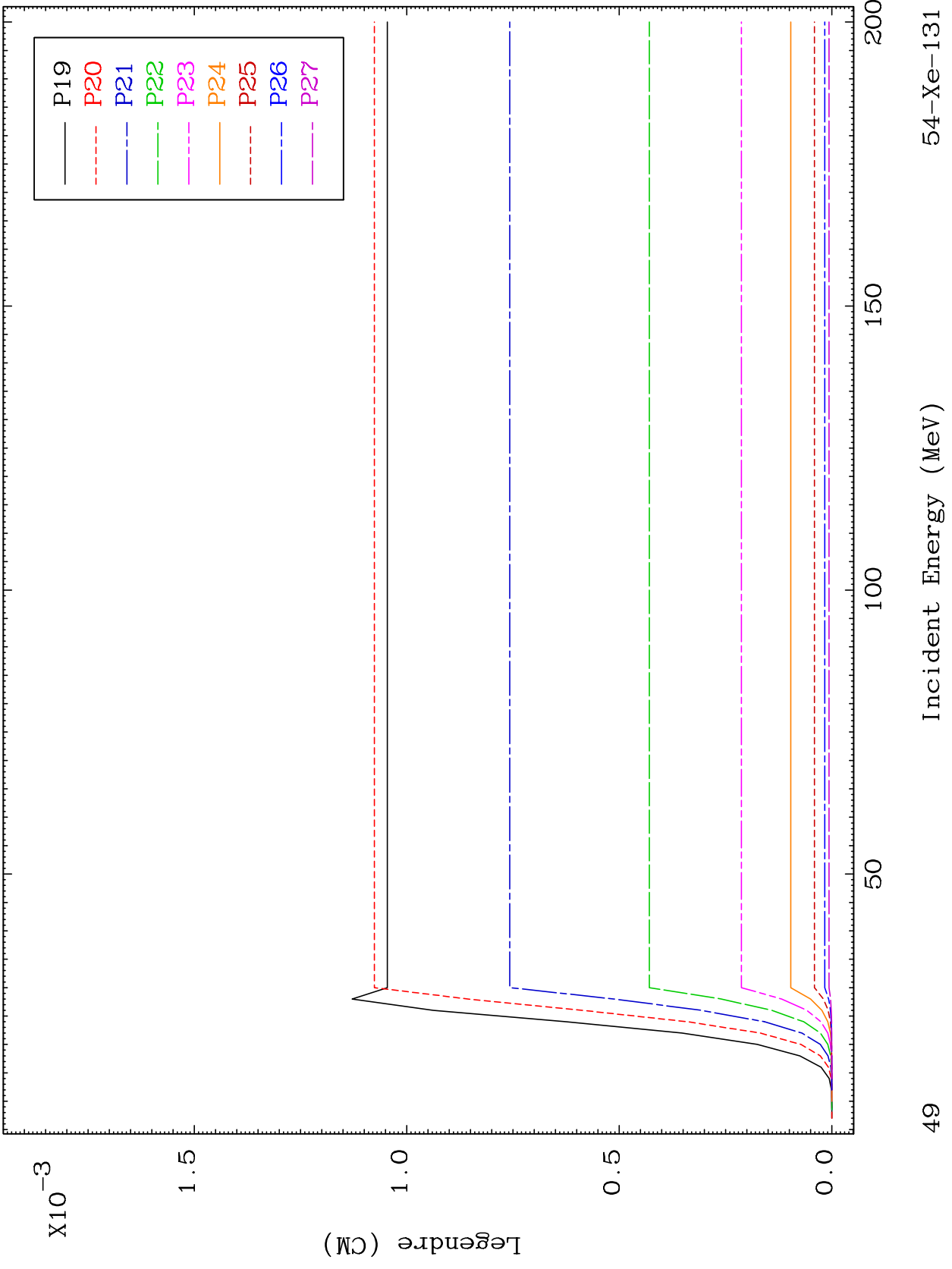
Incident Energy (MeV)

48

MAT 5446

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

54-Xe-131

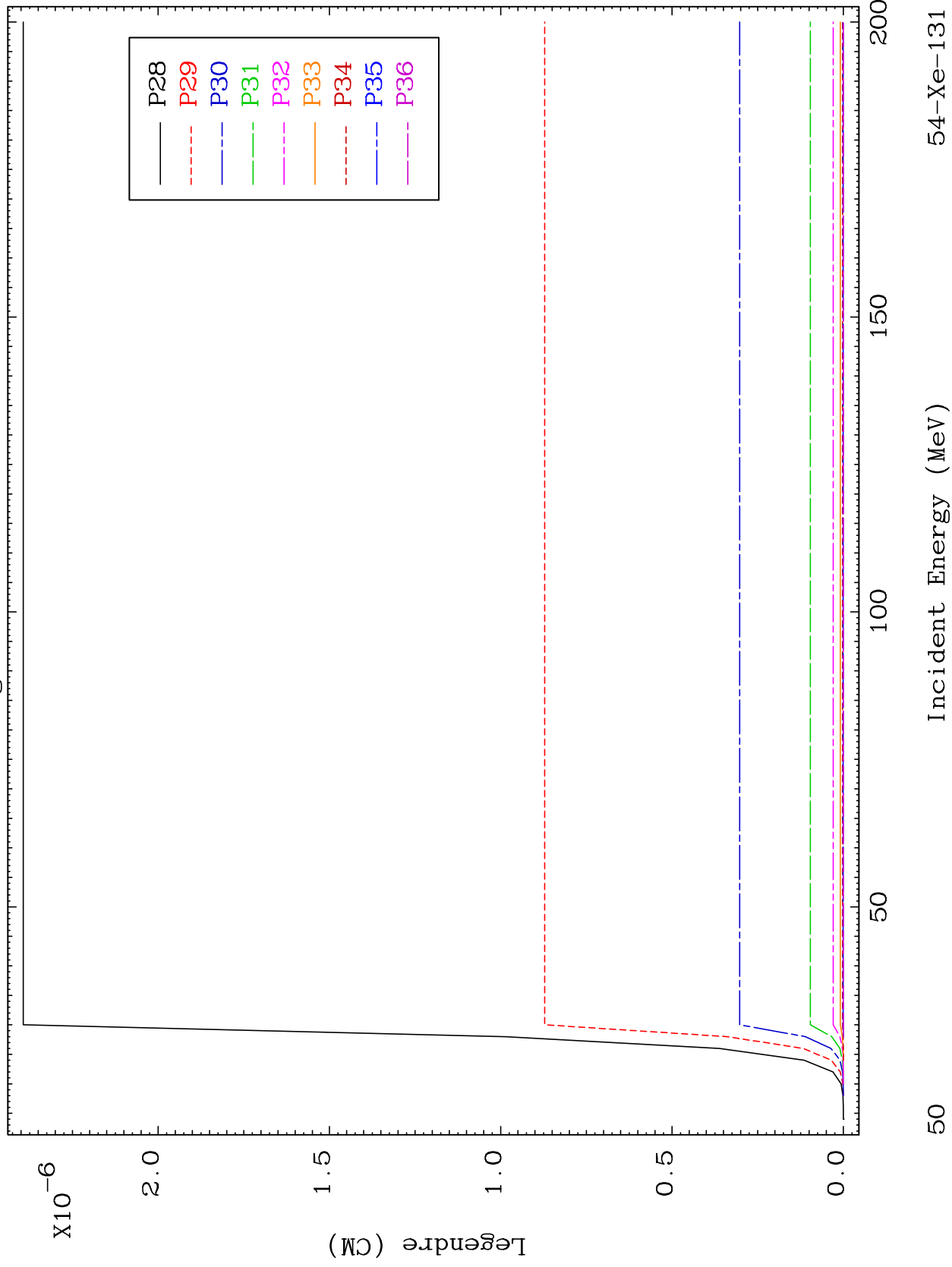


49

MAT 5446

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

54-Xe-131

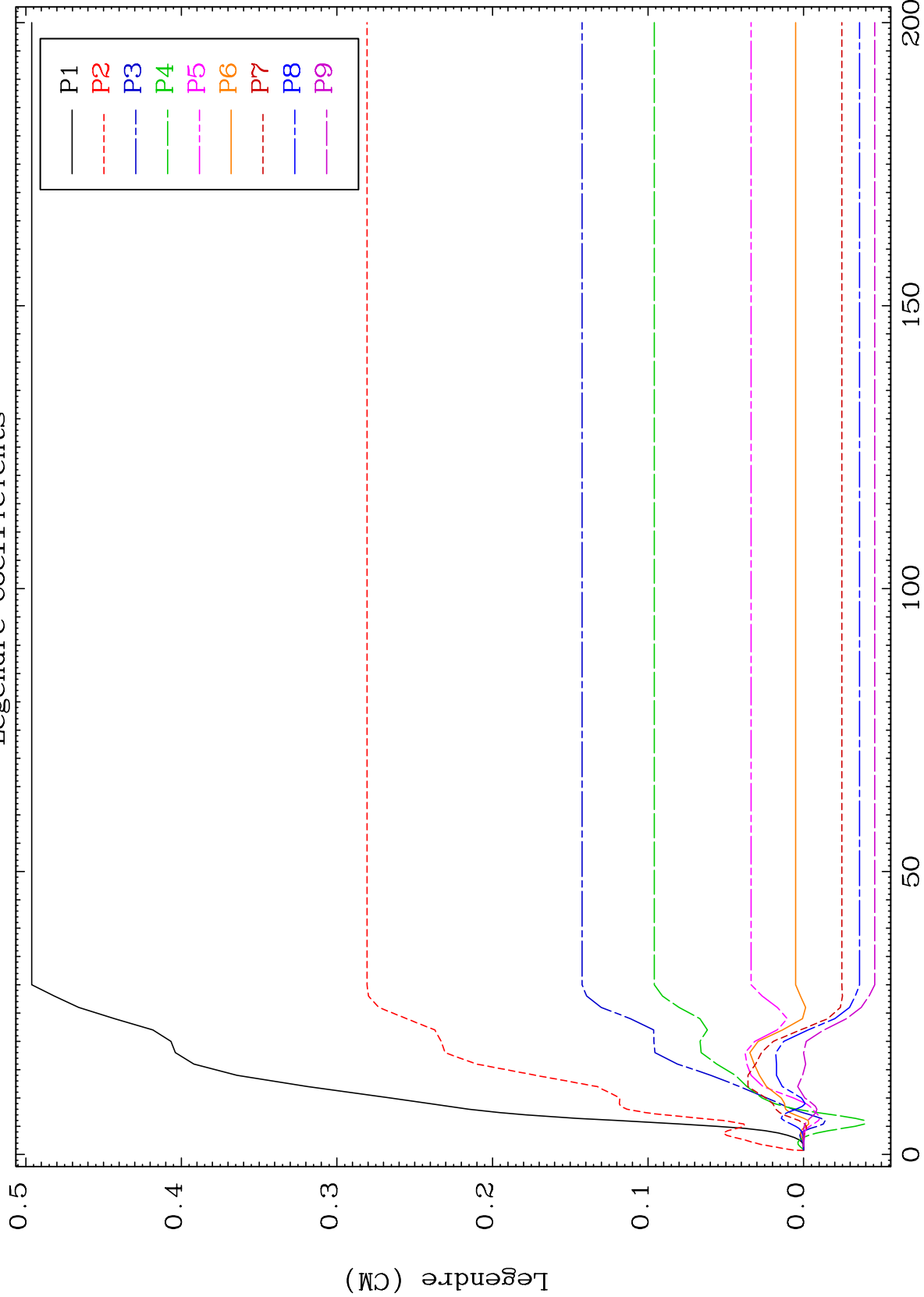


MAT 5446

MT= 59 (n,n') Level

54-Xe-131

Legendre Coefficients



51

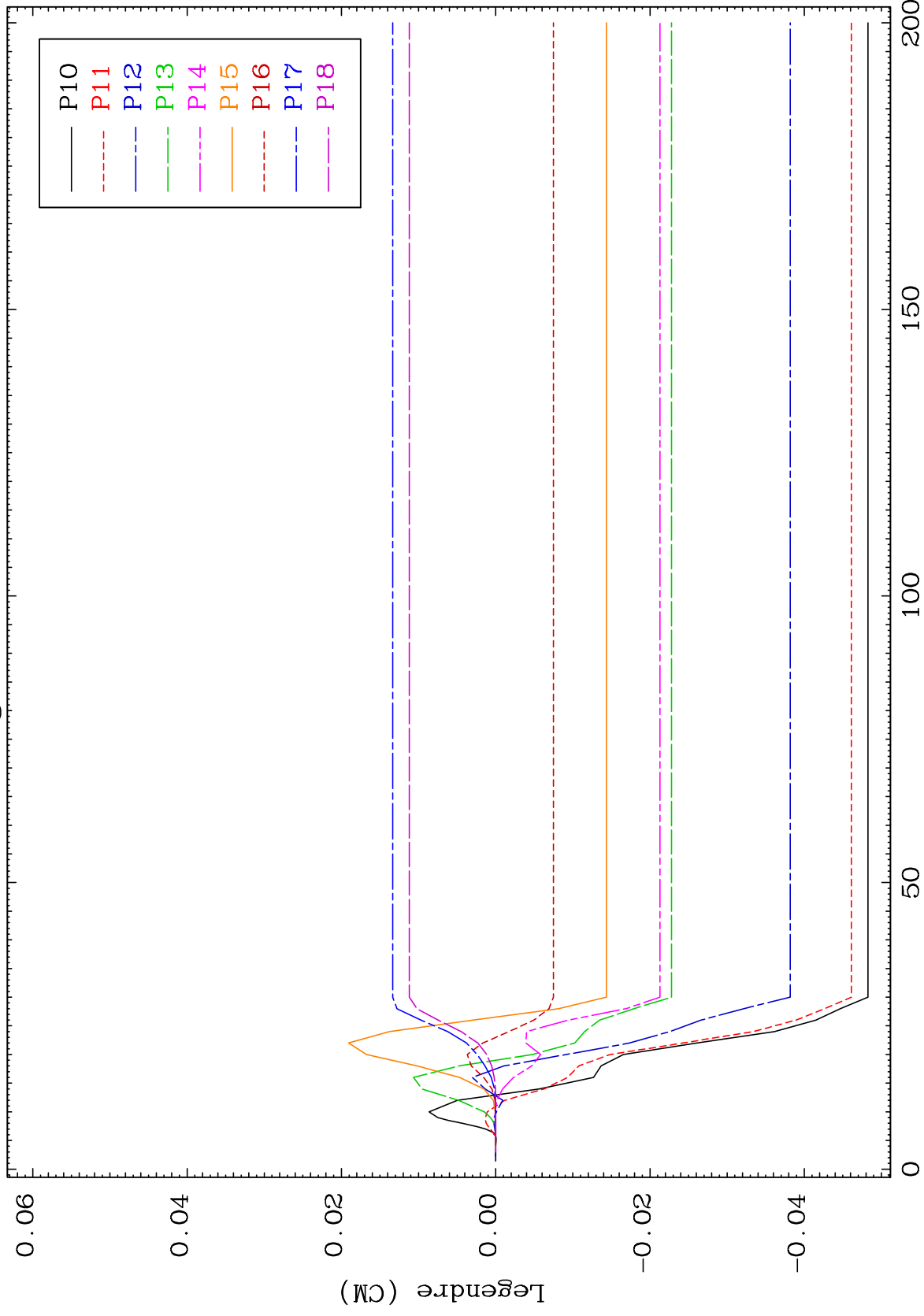
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



52

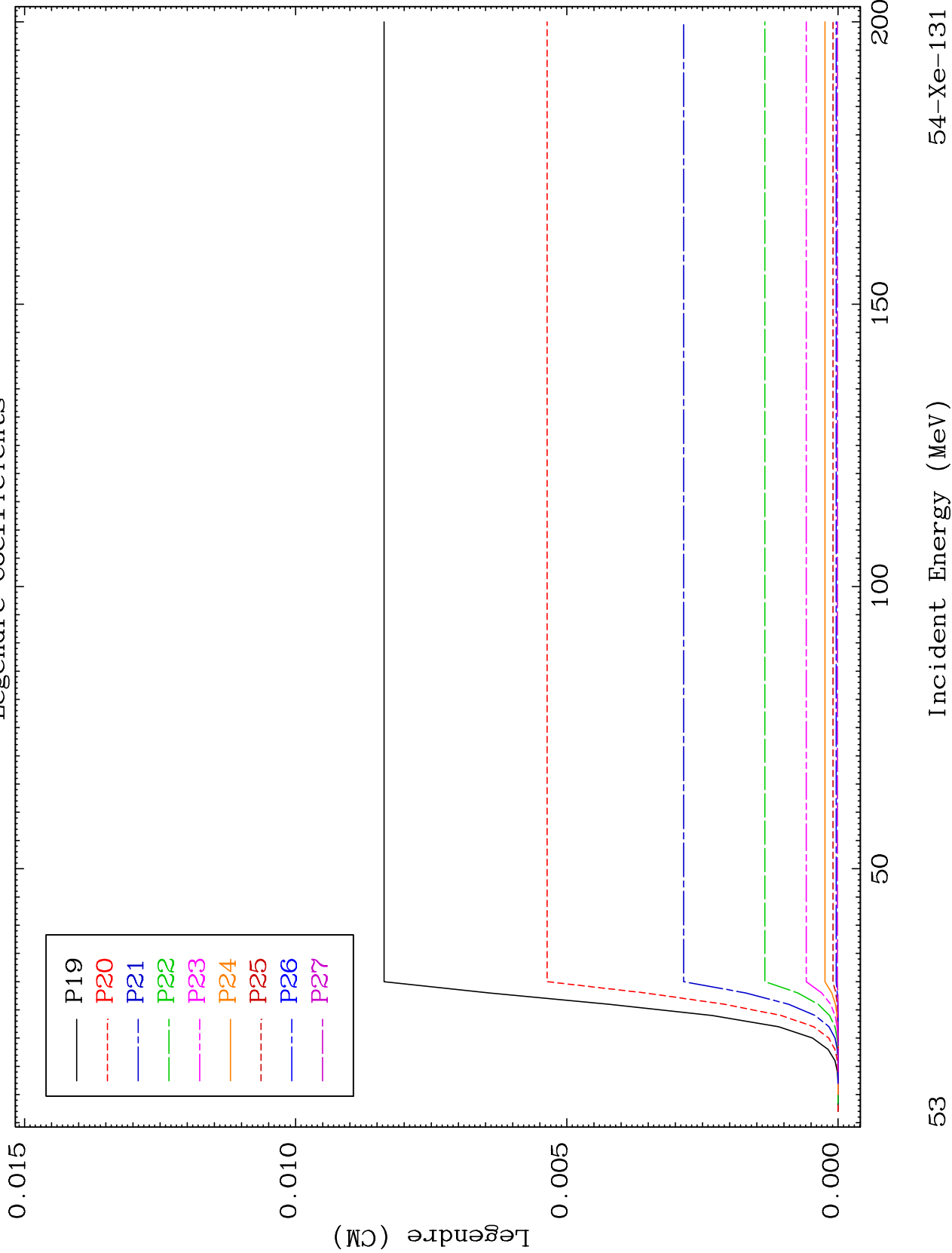
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



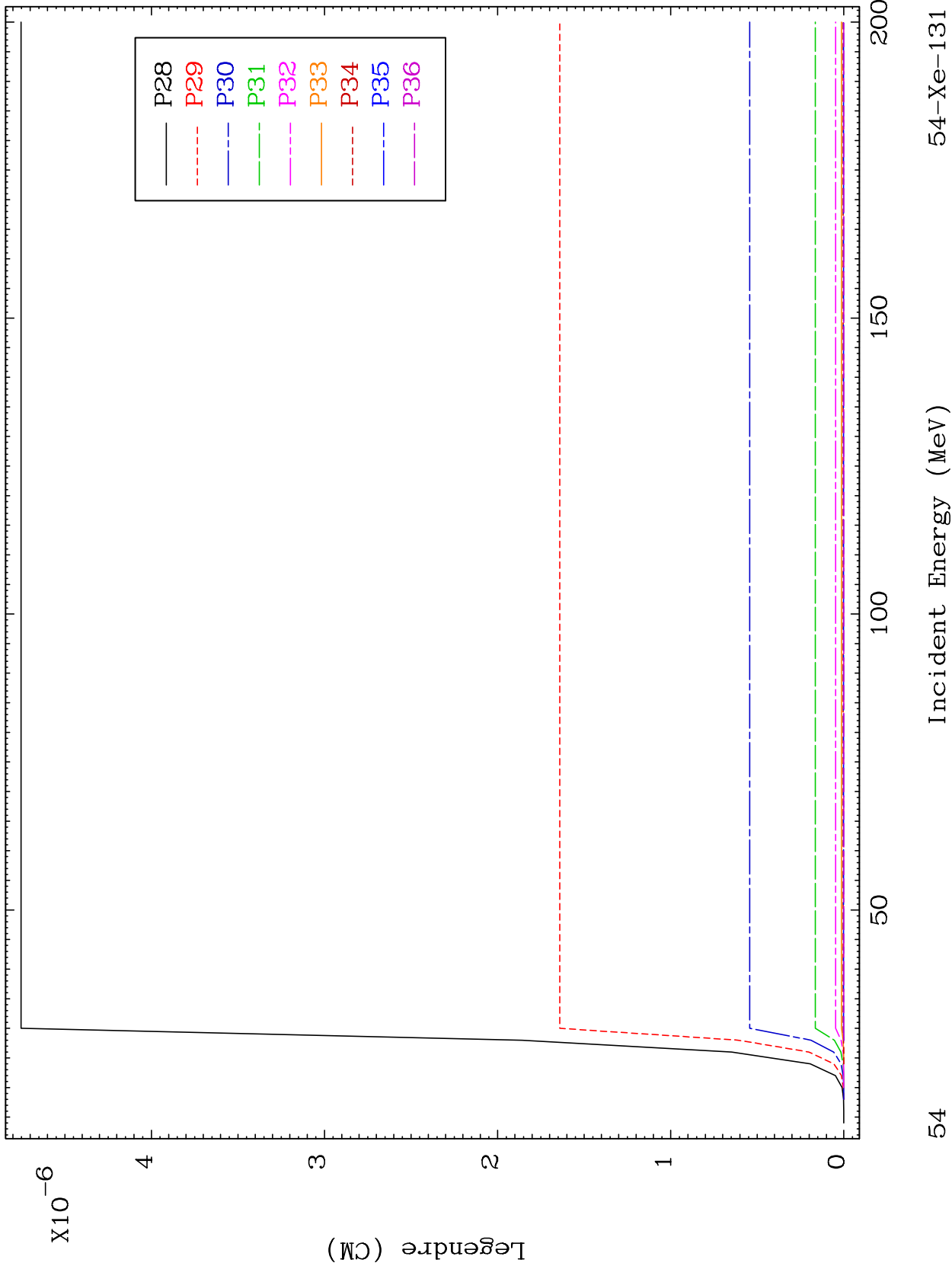
53

54-Xe-131

MAT 5446

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

54-Xe-131

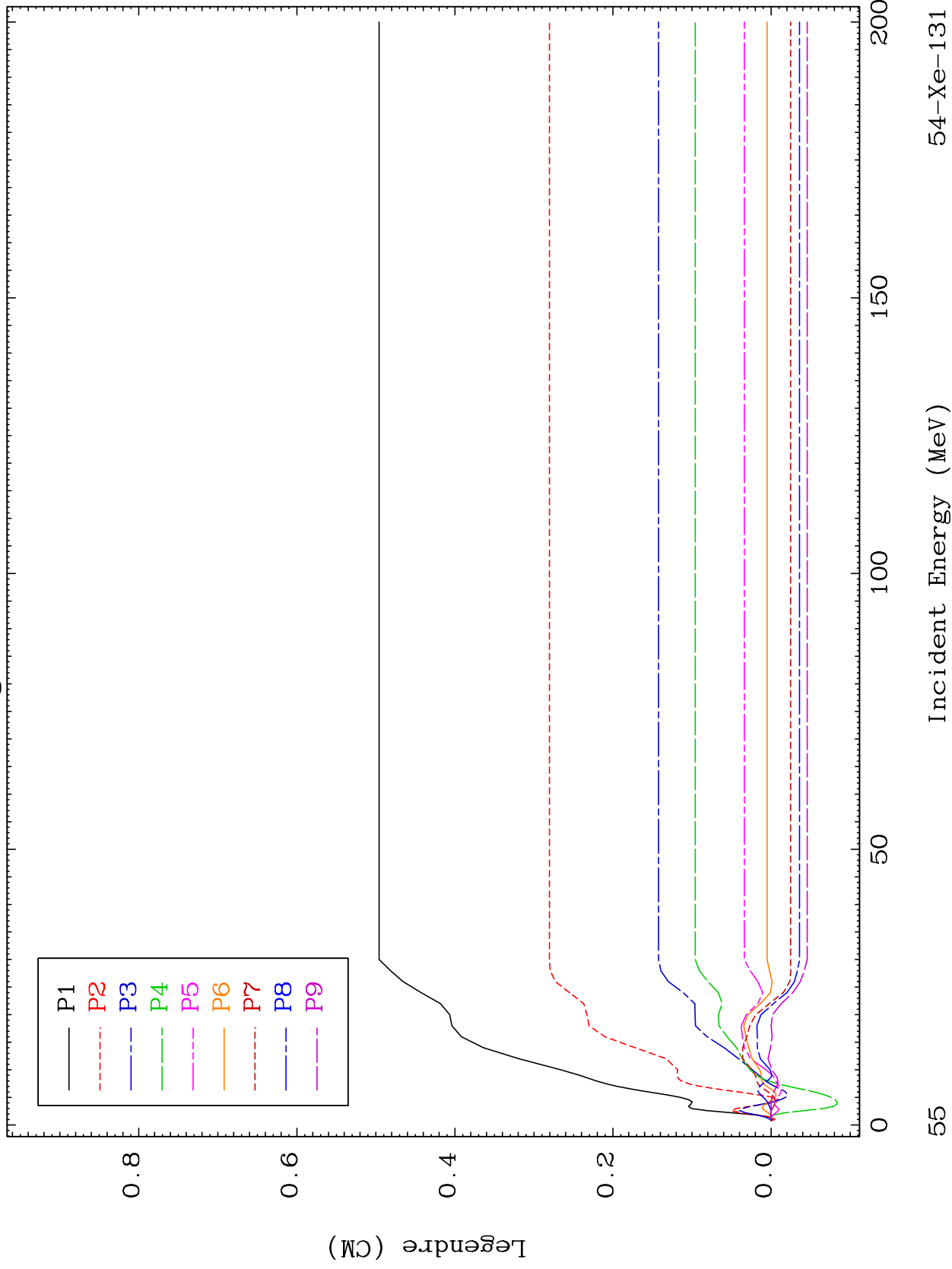


54

MAT 5446

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

54-Xe-131



54-Xe-131

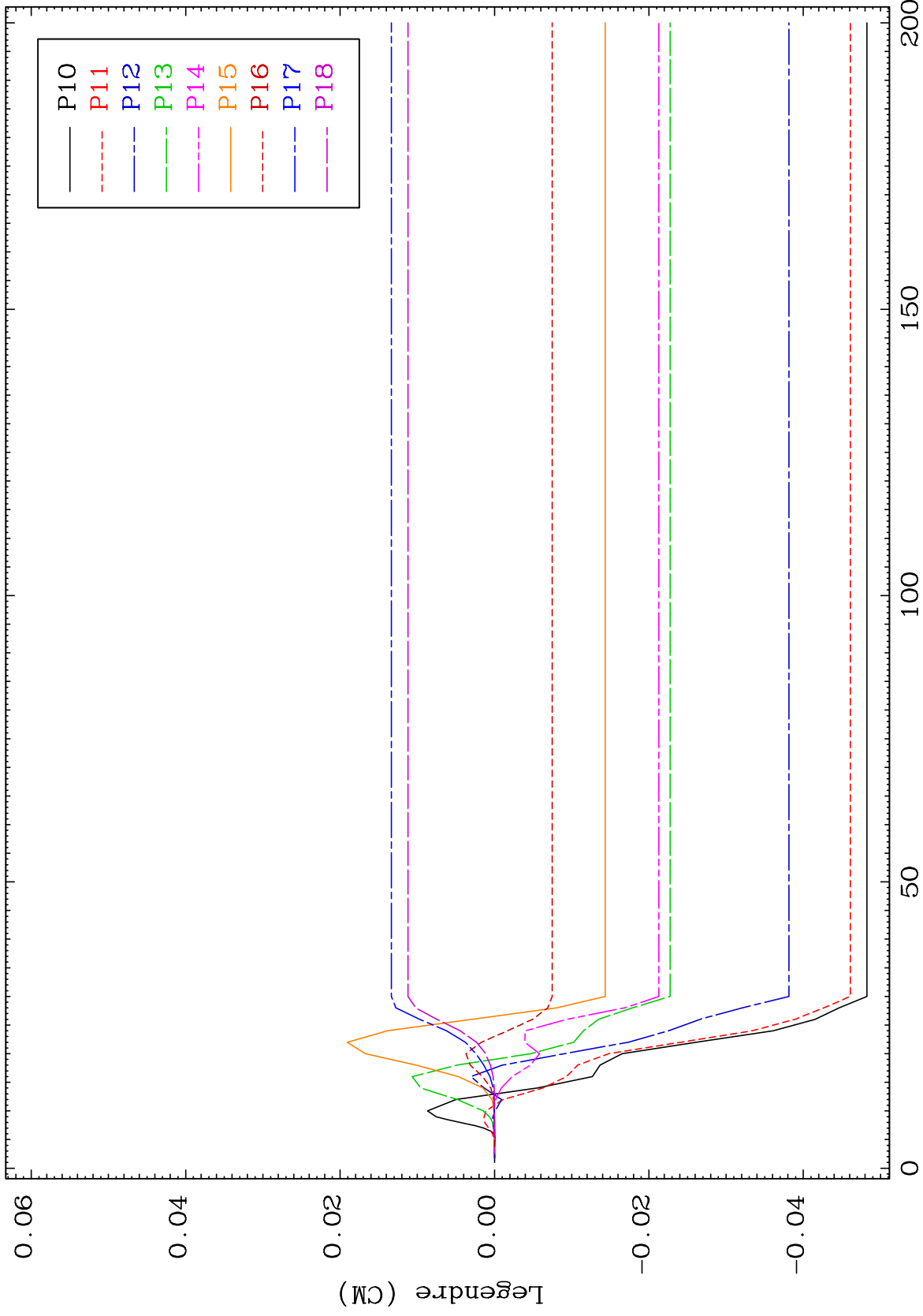
Incident Energy (MeV)

55

MAT 5446

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

54-Xe-131



56

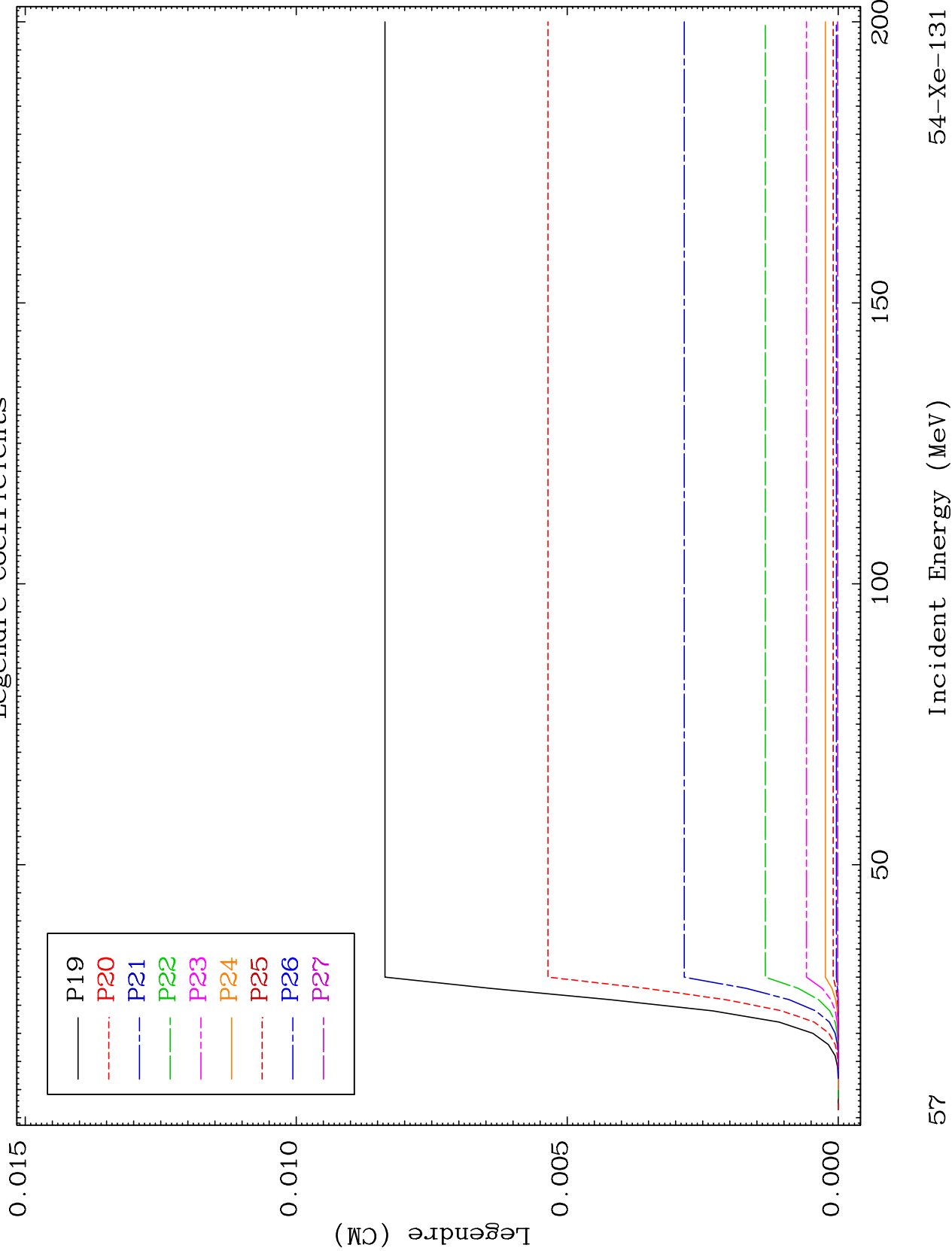
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



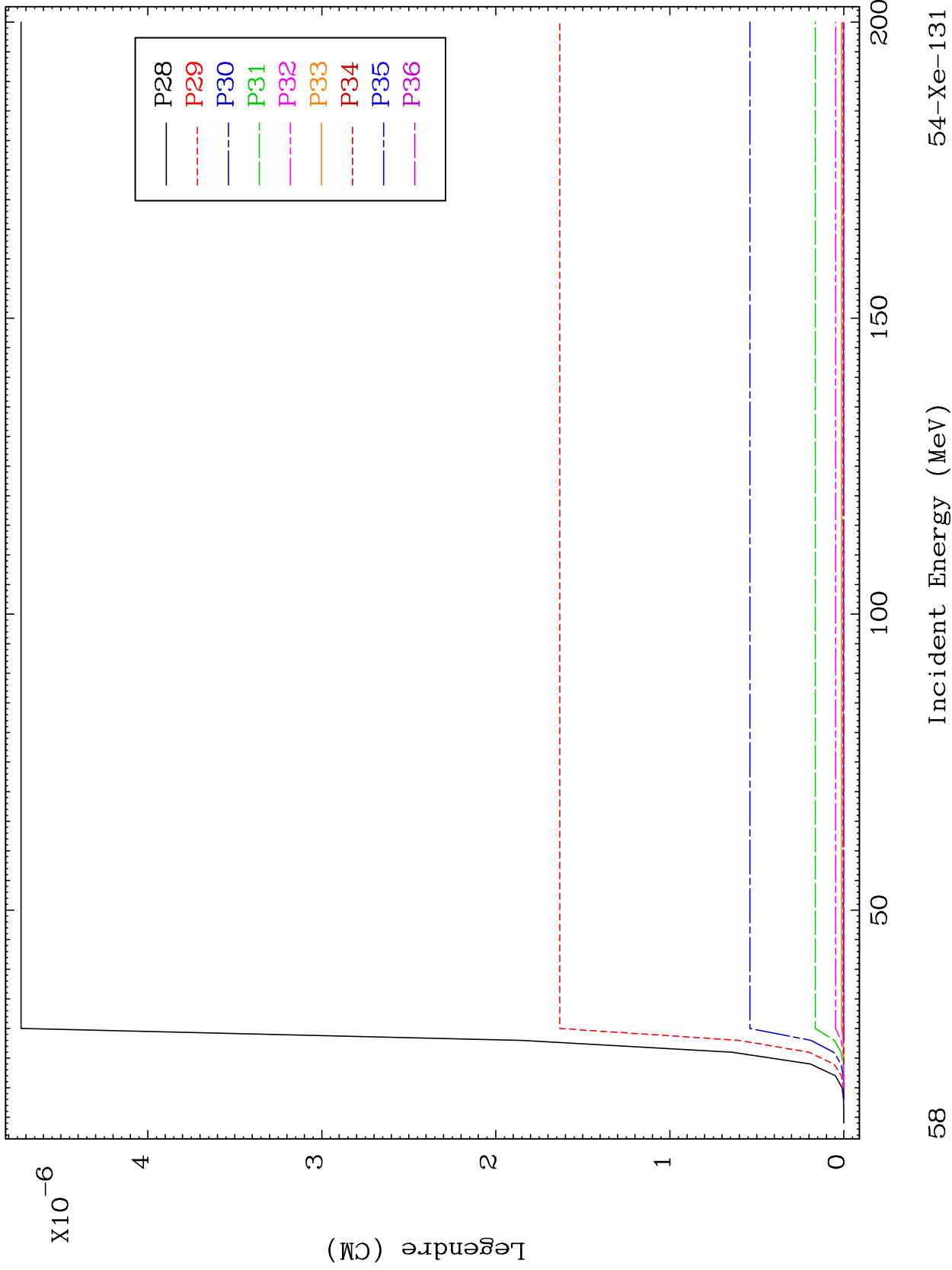
57

54-Xe-131

MAT 5446

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

54-Xe-131



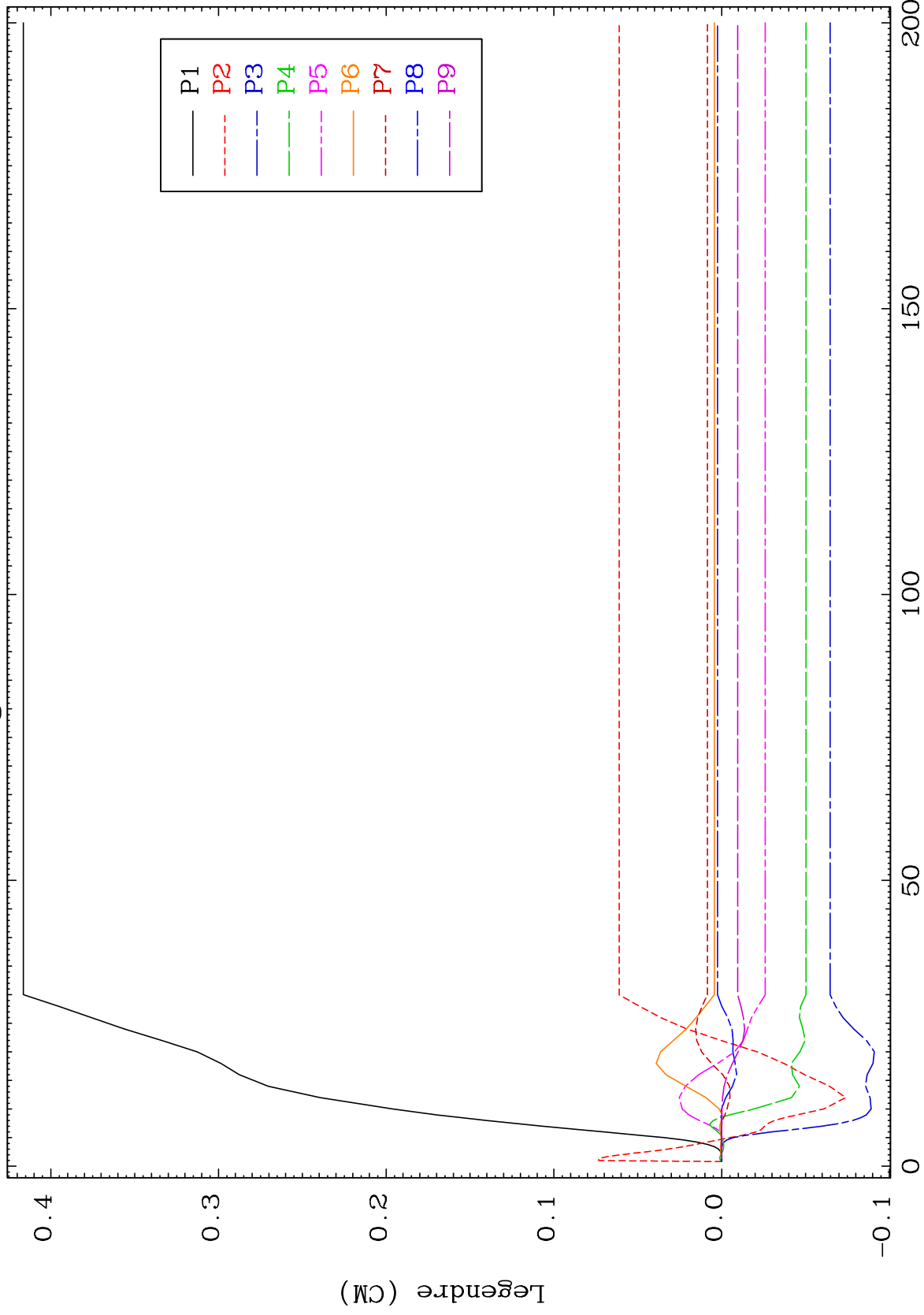
58

54-Xe-131

MAT 5446

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

54-Xe-131



59

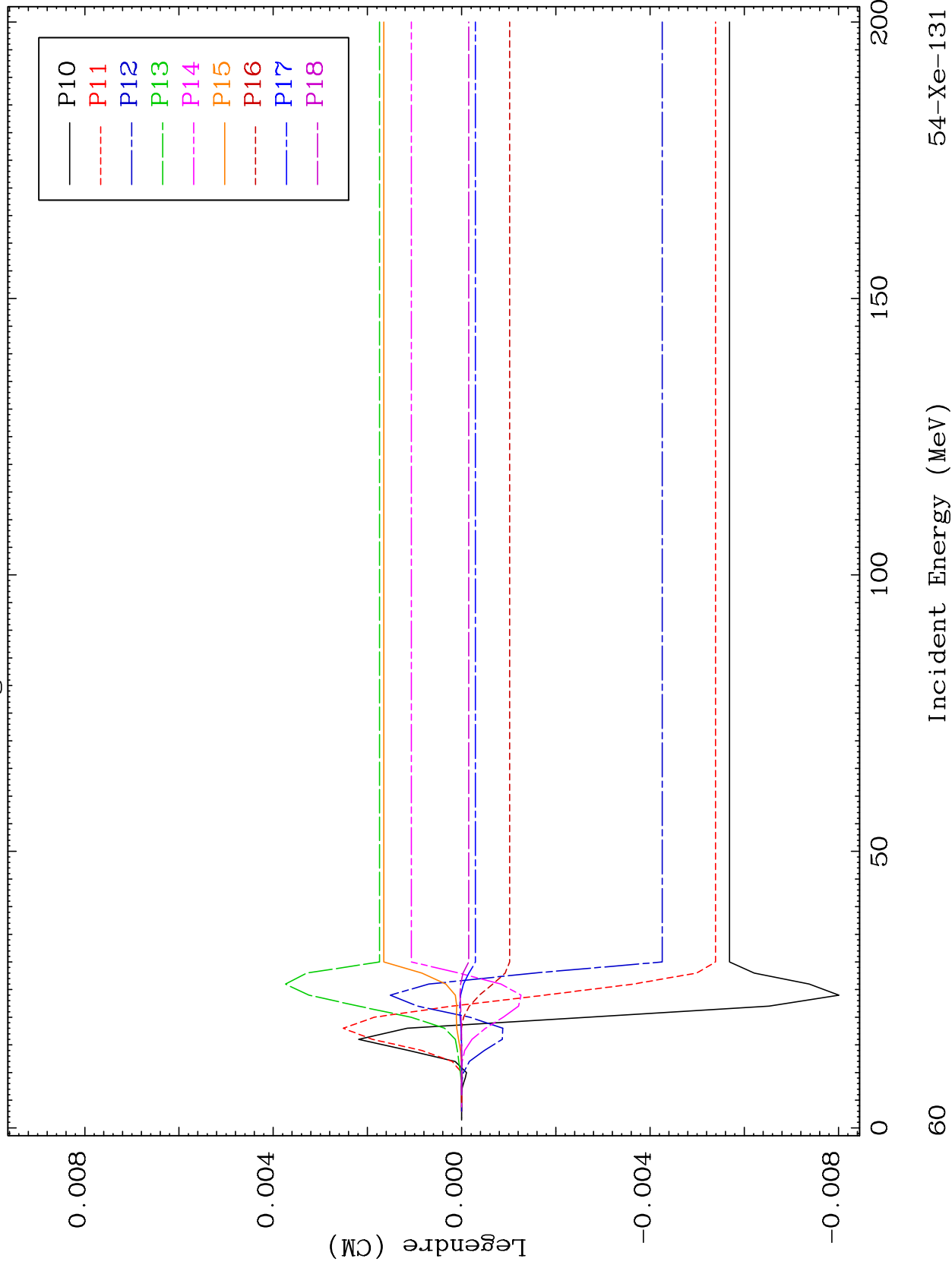
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



54-Xe-131

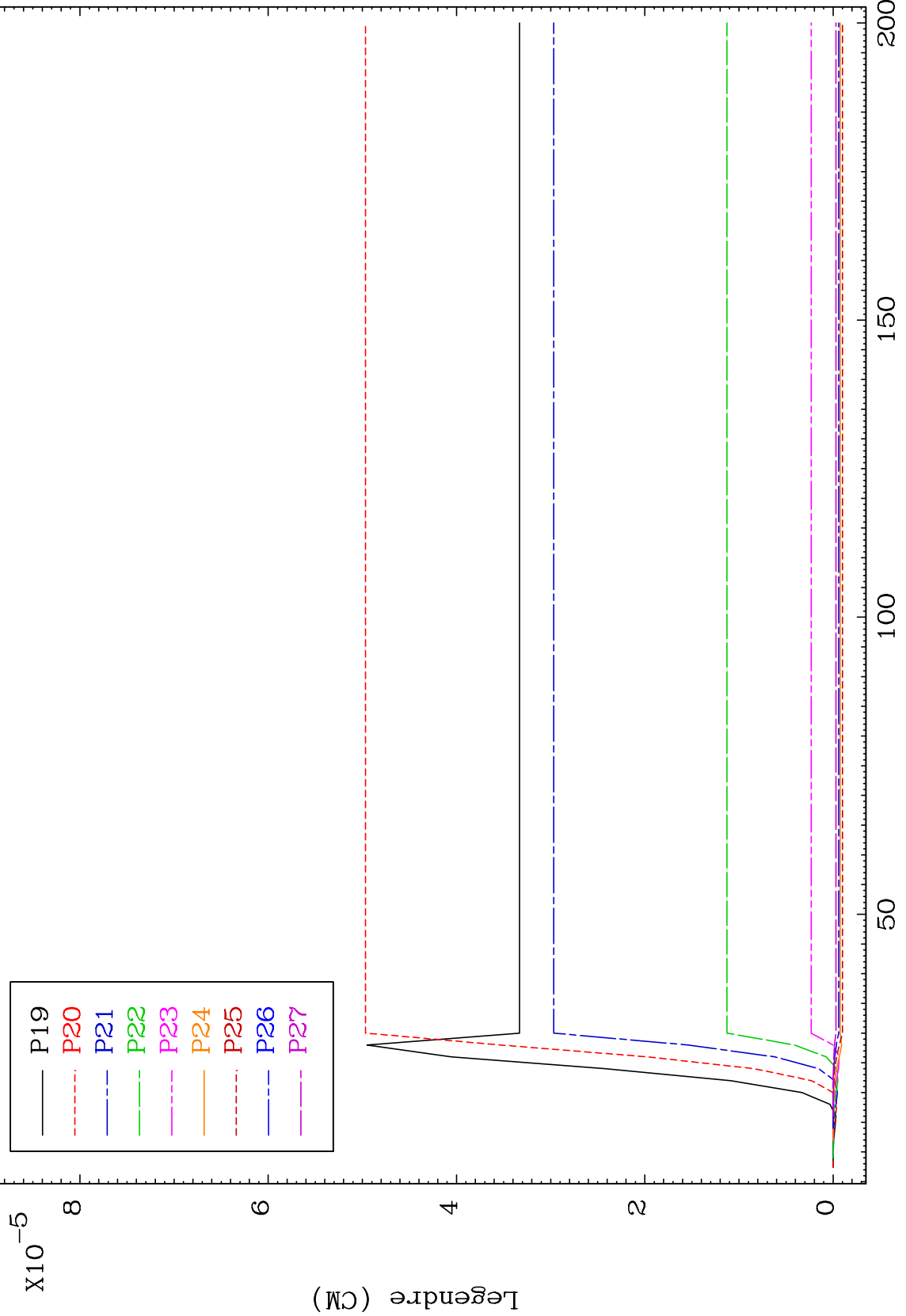
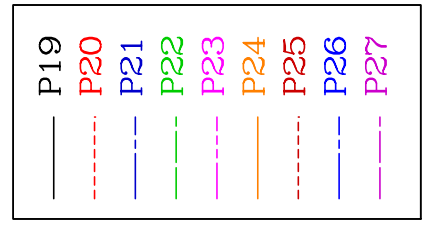
Incident Energy (MeV)

60

MAT 5446

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

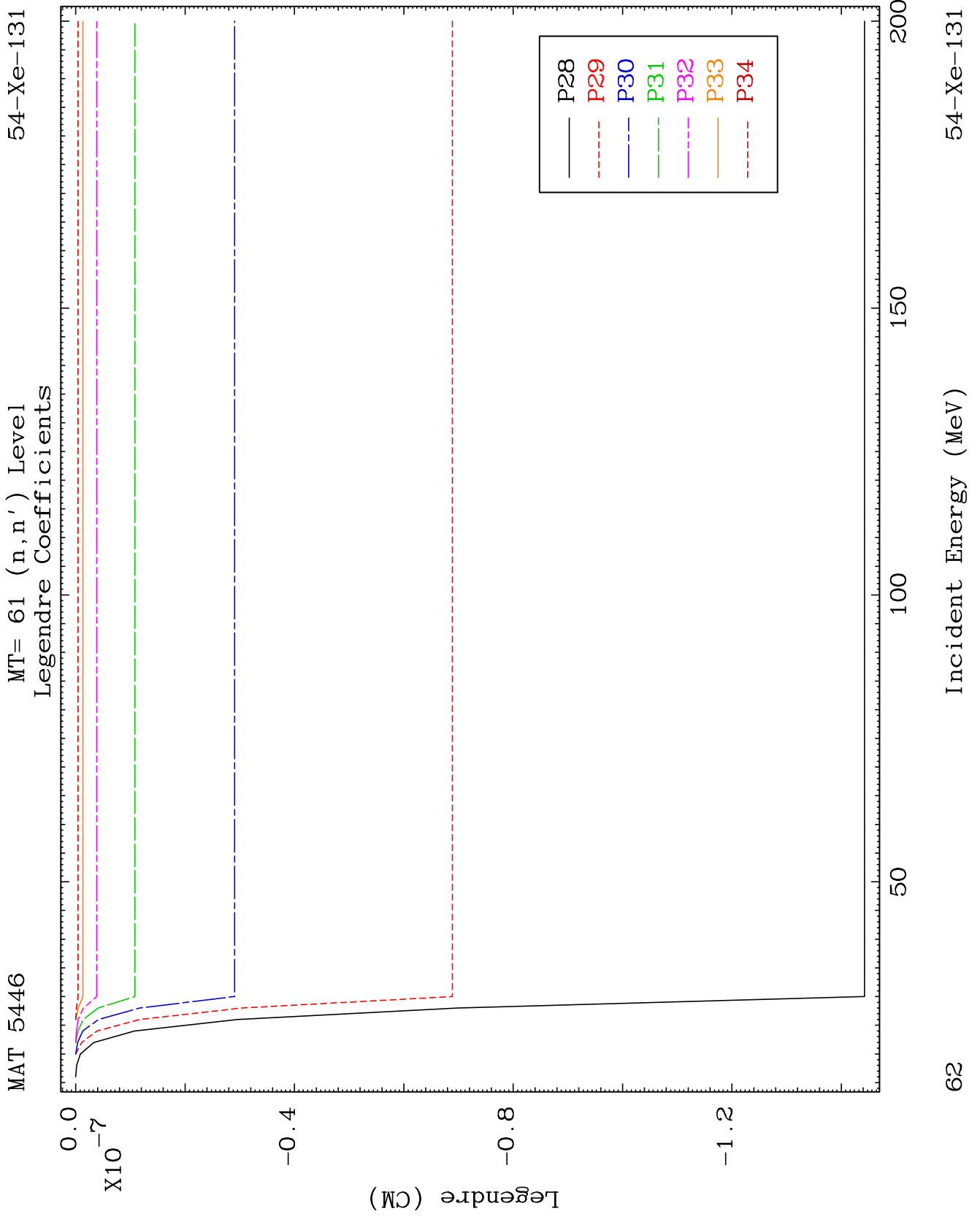
54-Xe-131



61

Incident Energy (MeV)

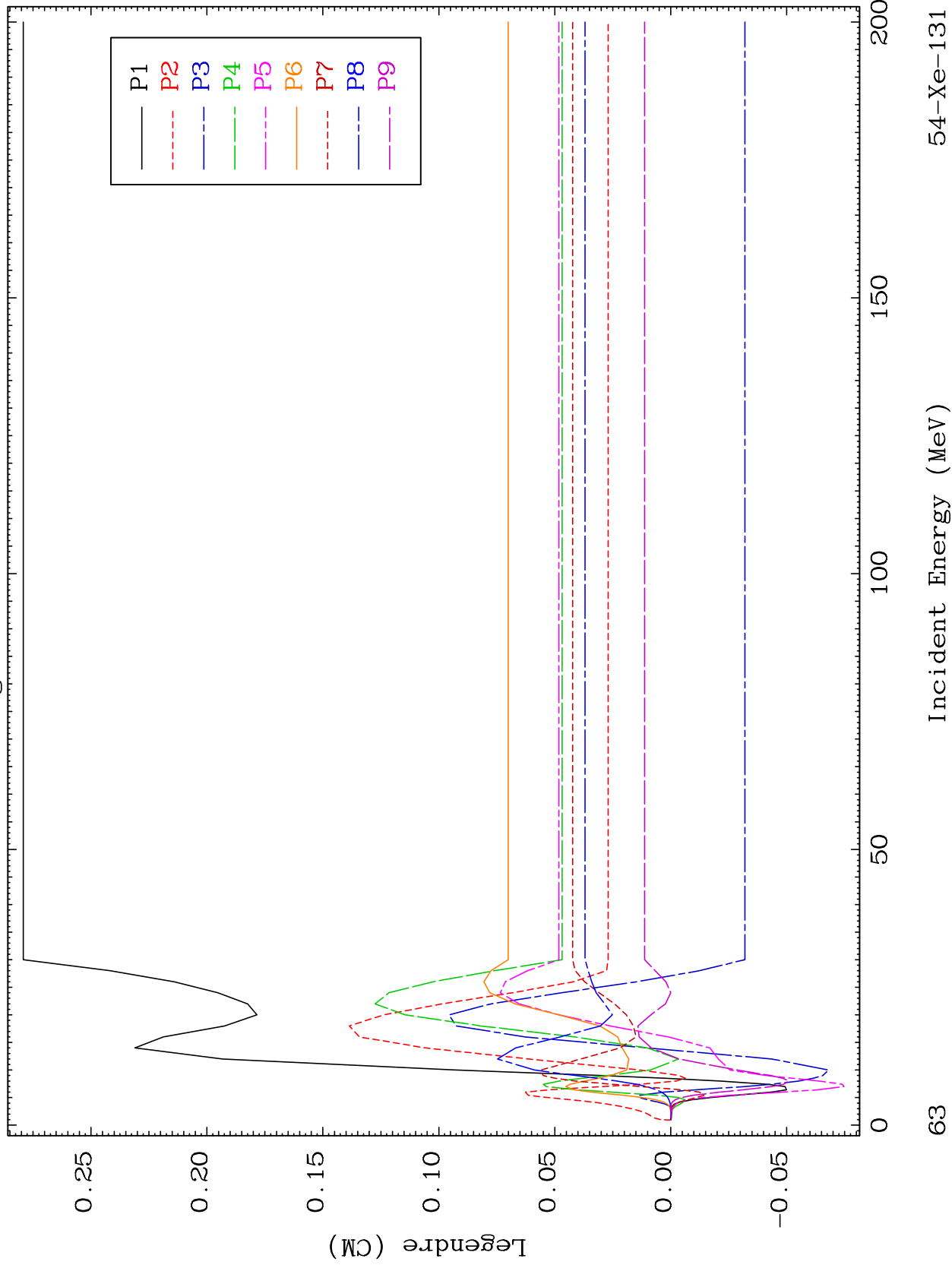
54-Xe-131



MAT 5446

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

54-Xe-131



54-Xe-131

Incident Energy (MeV)

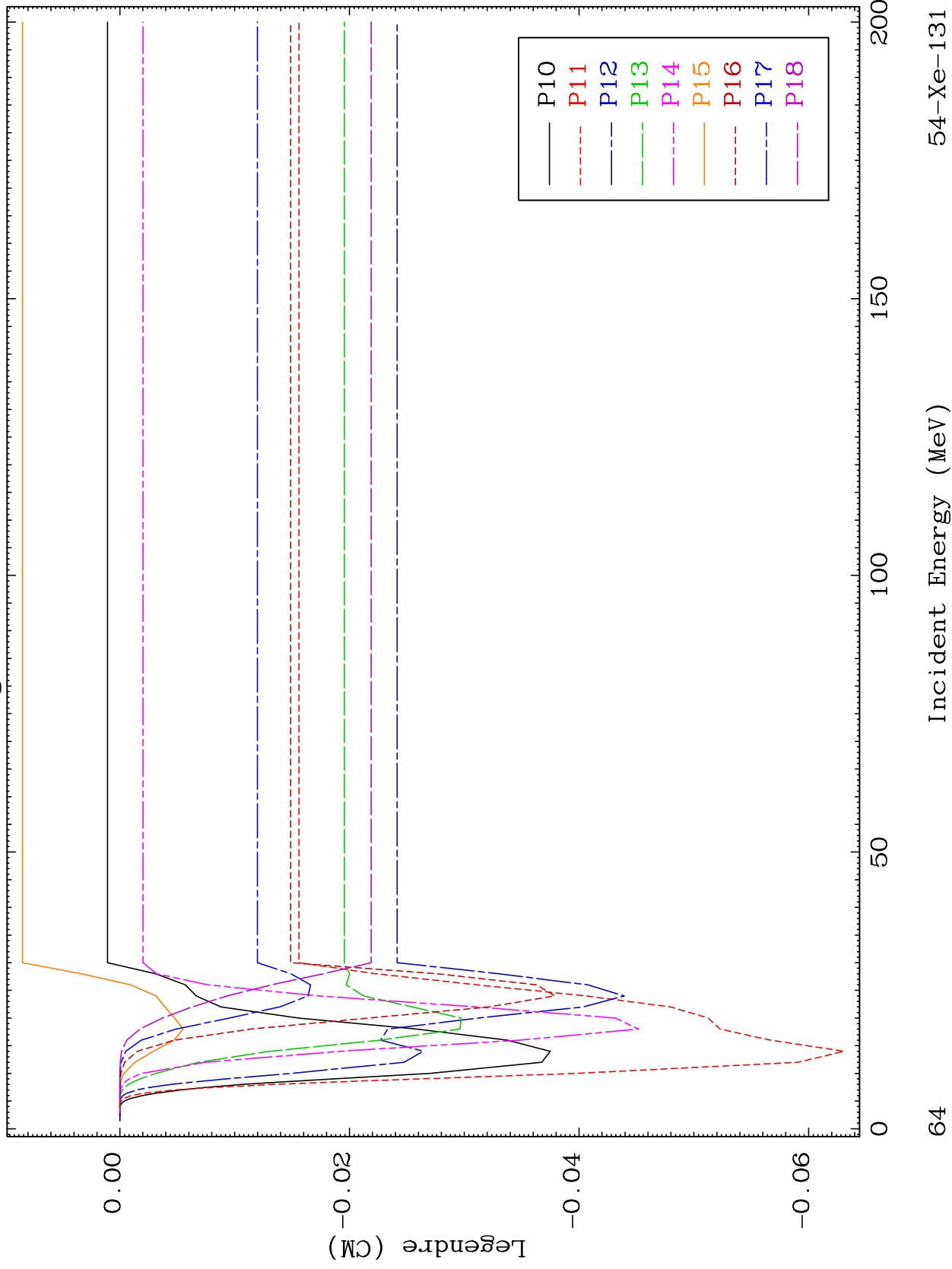
63

MAT 5446

MT= 62 (n,n') Level

54-Xe-131

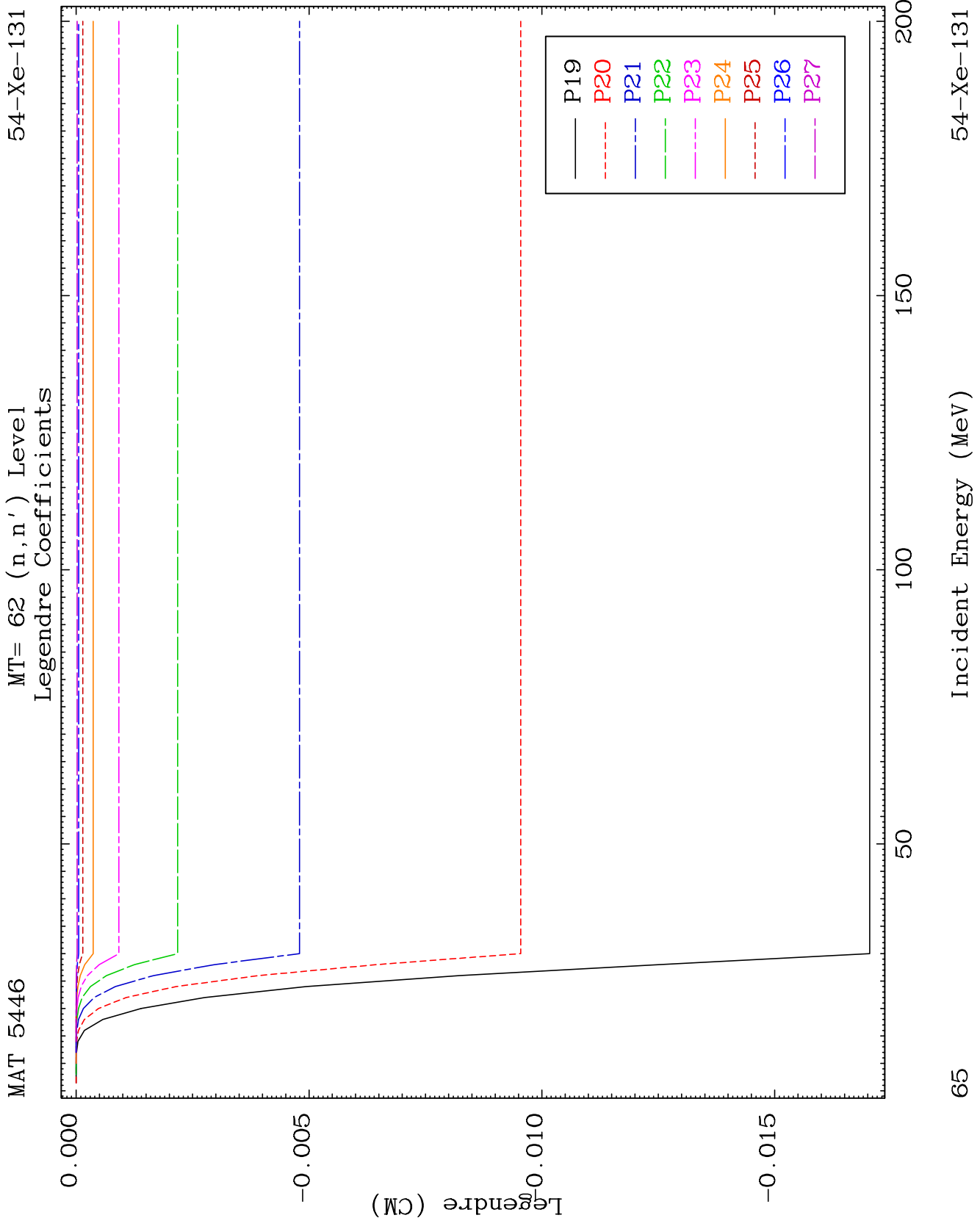
Legendre Coefficients



64

Incident Energy (MeV)

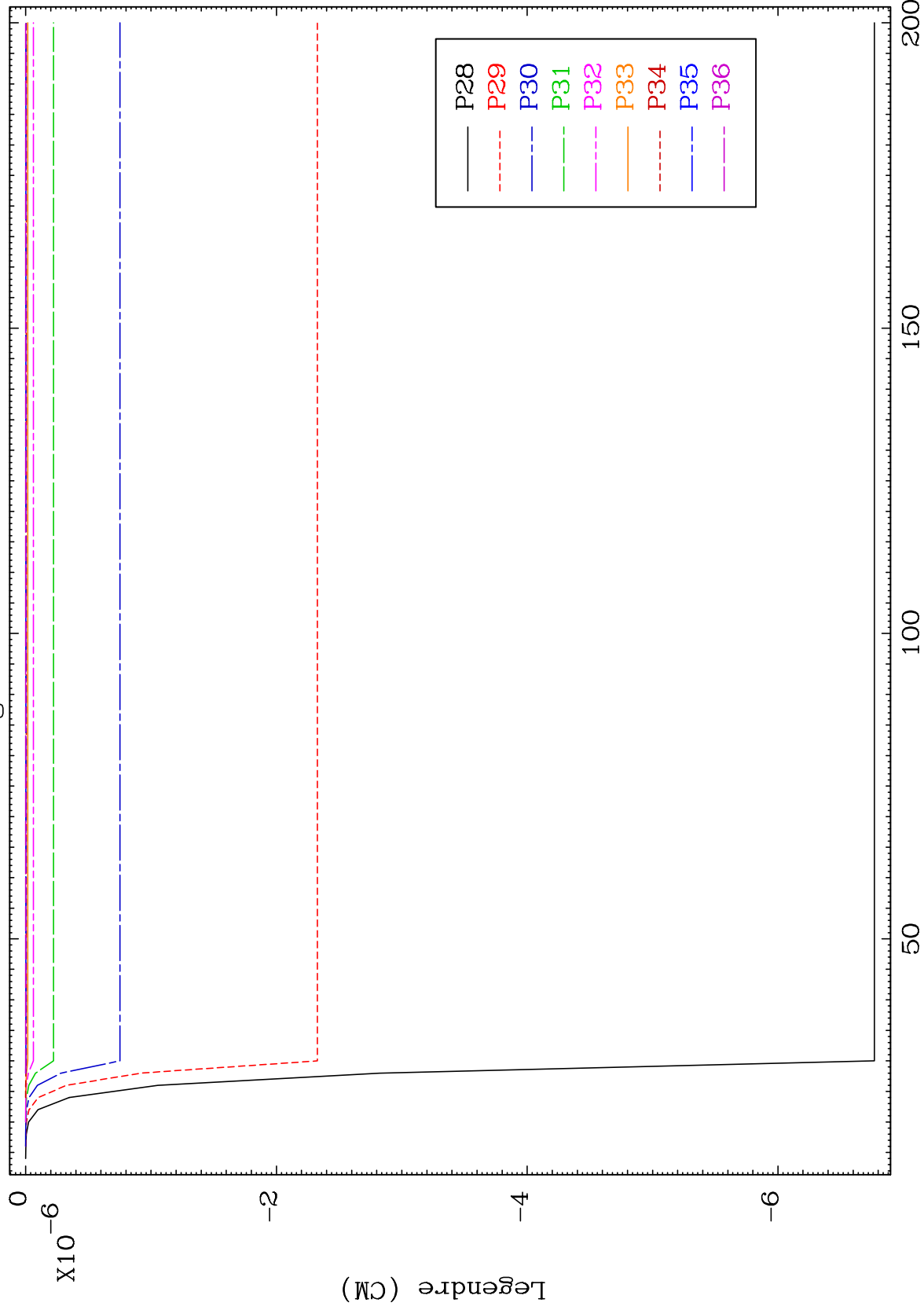
54-Xe-131



MAT 5446

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

54-Xe-131



66

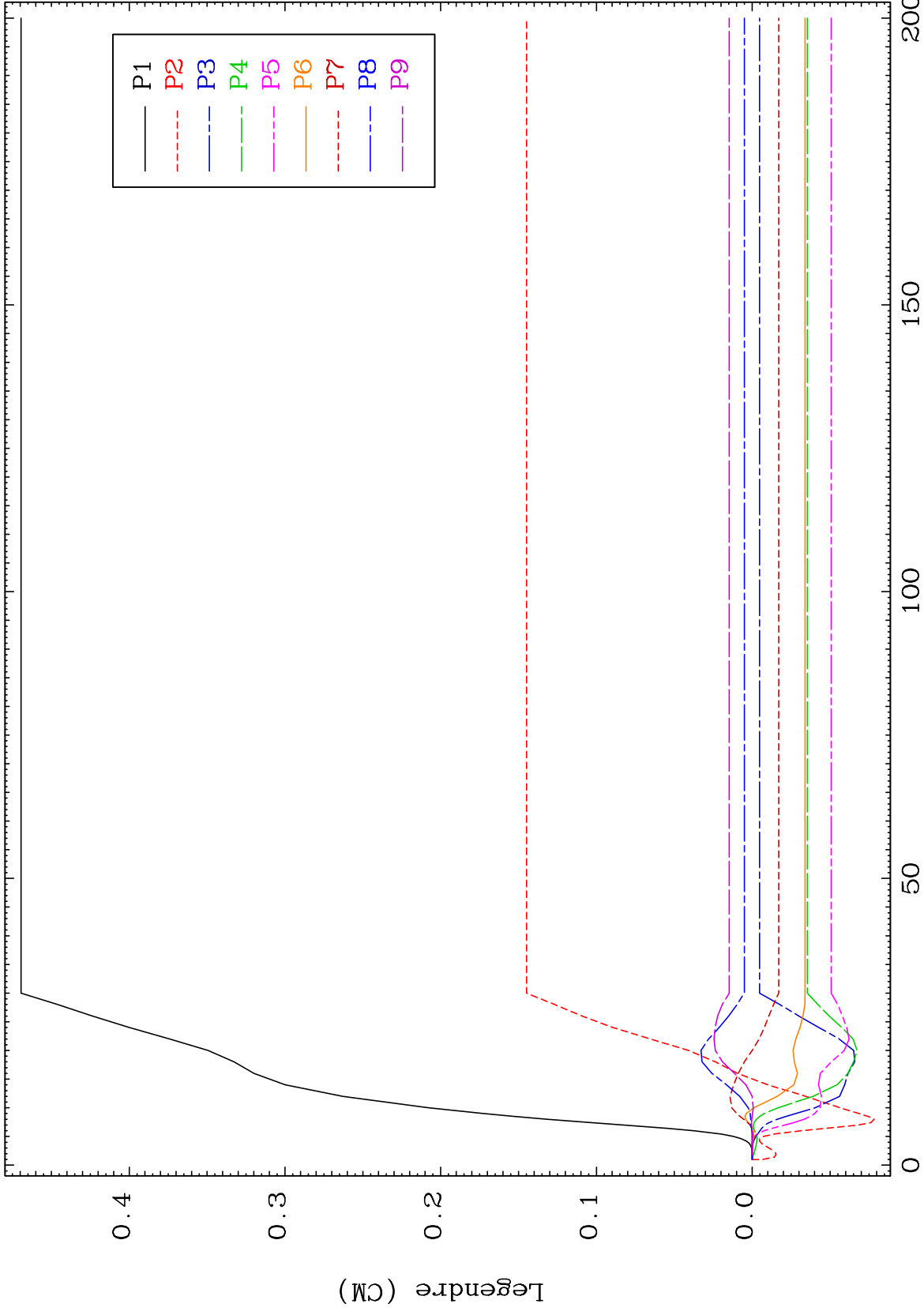
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



67

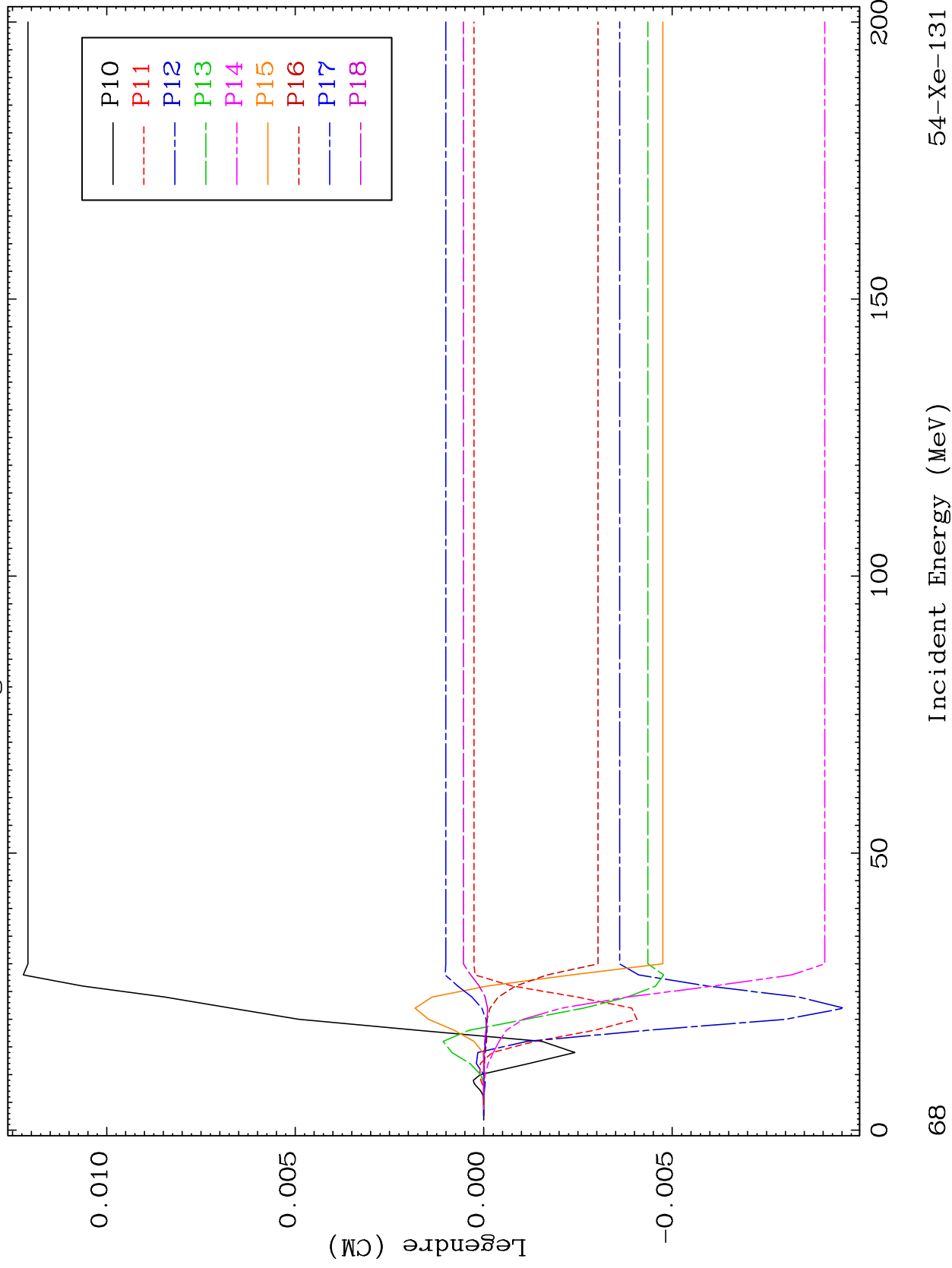
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



54-Xe-131

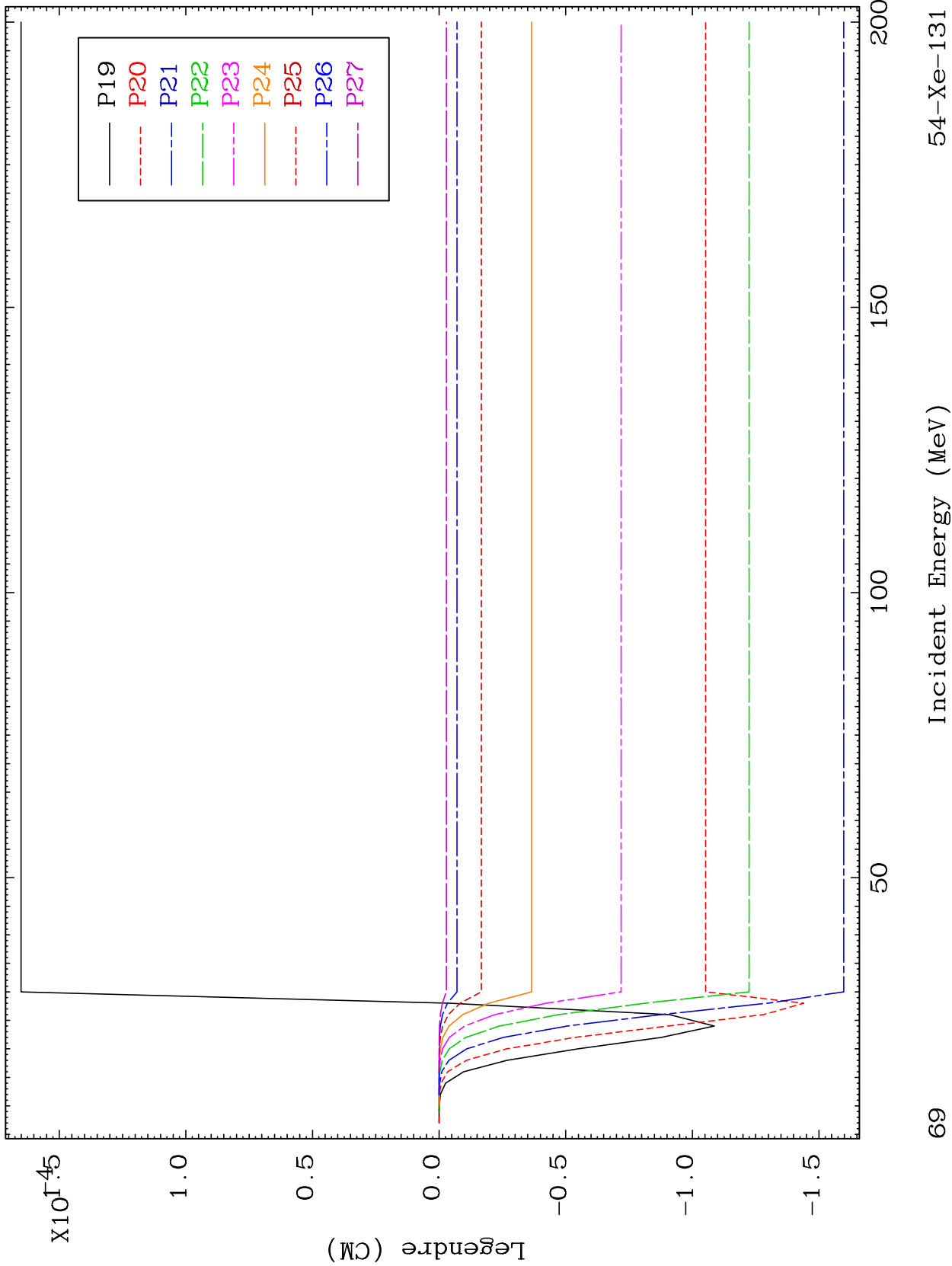
Incident Energy (MeV)

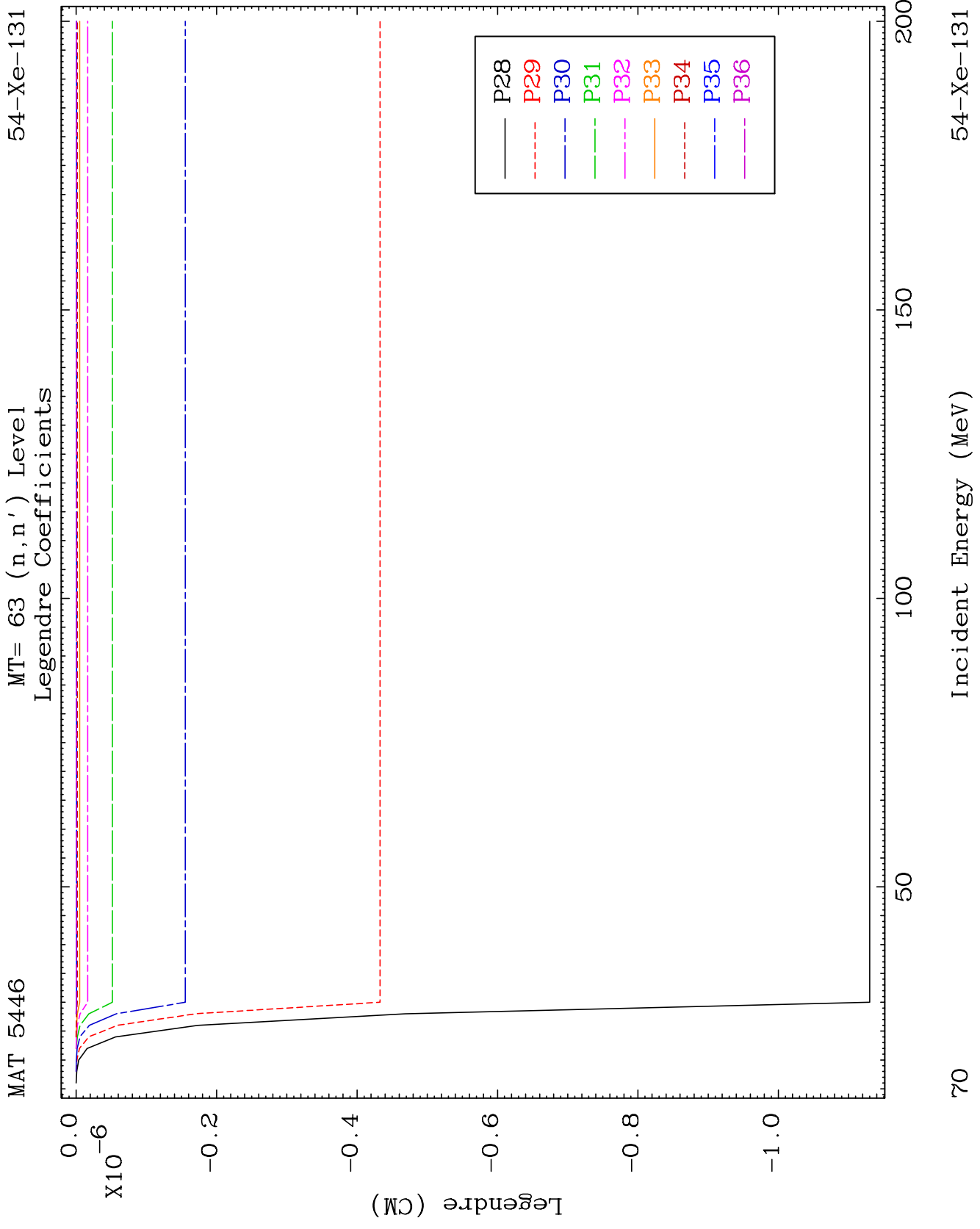
68

MAT 5446

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

54-Xe-131

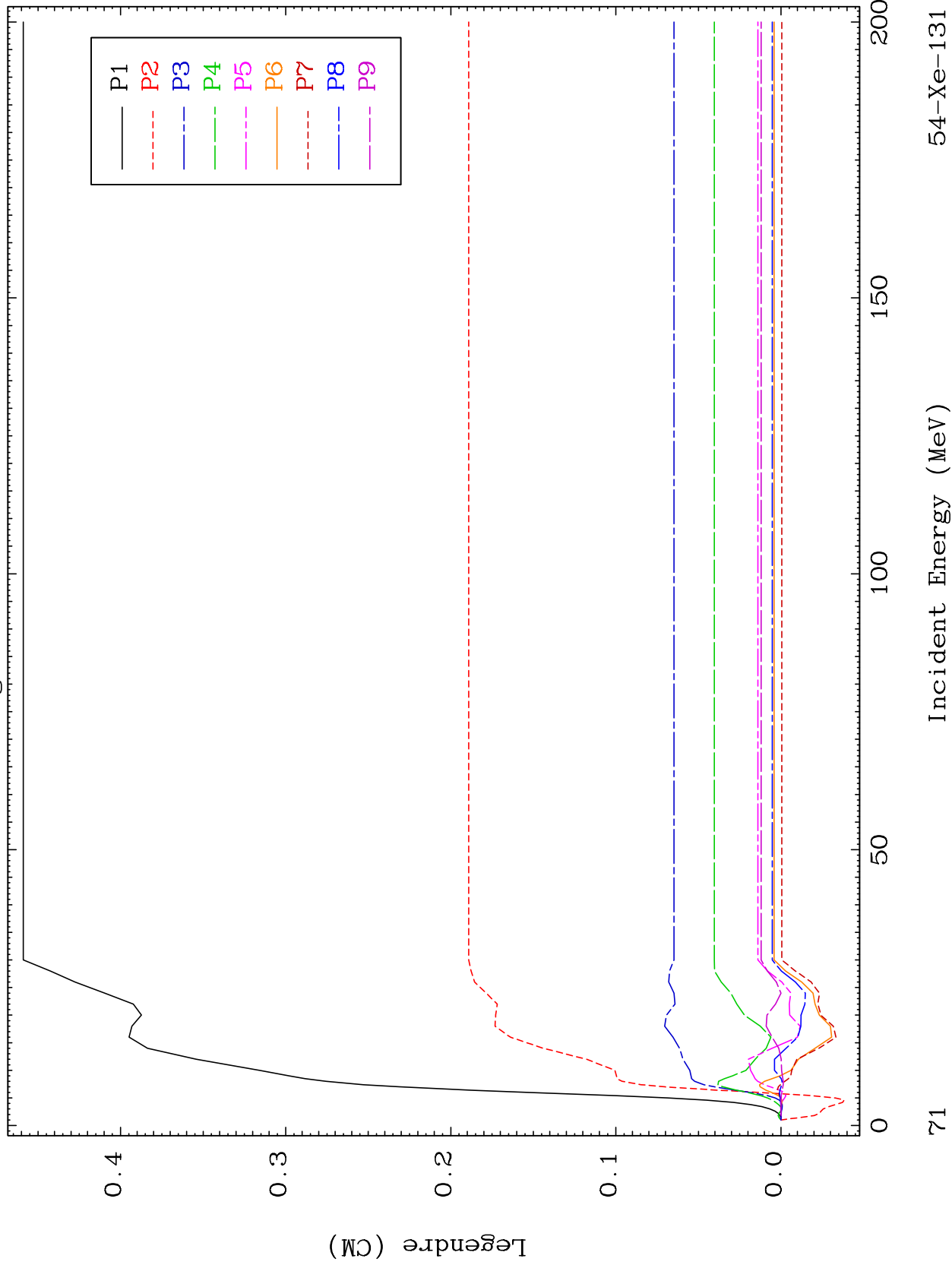




MAT 5446

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

54-Xe-131



54-Xe-131

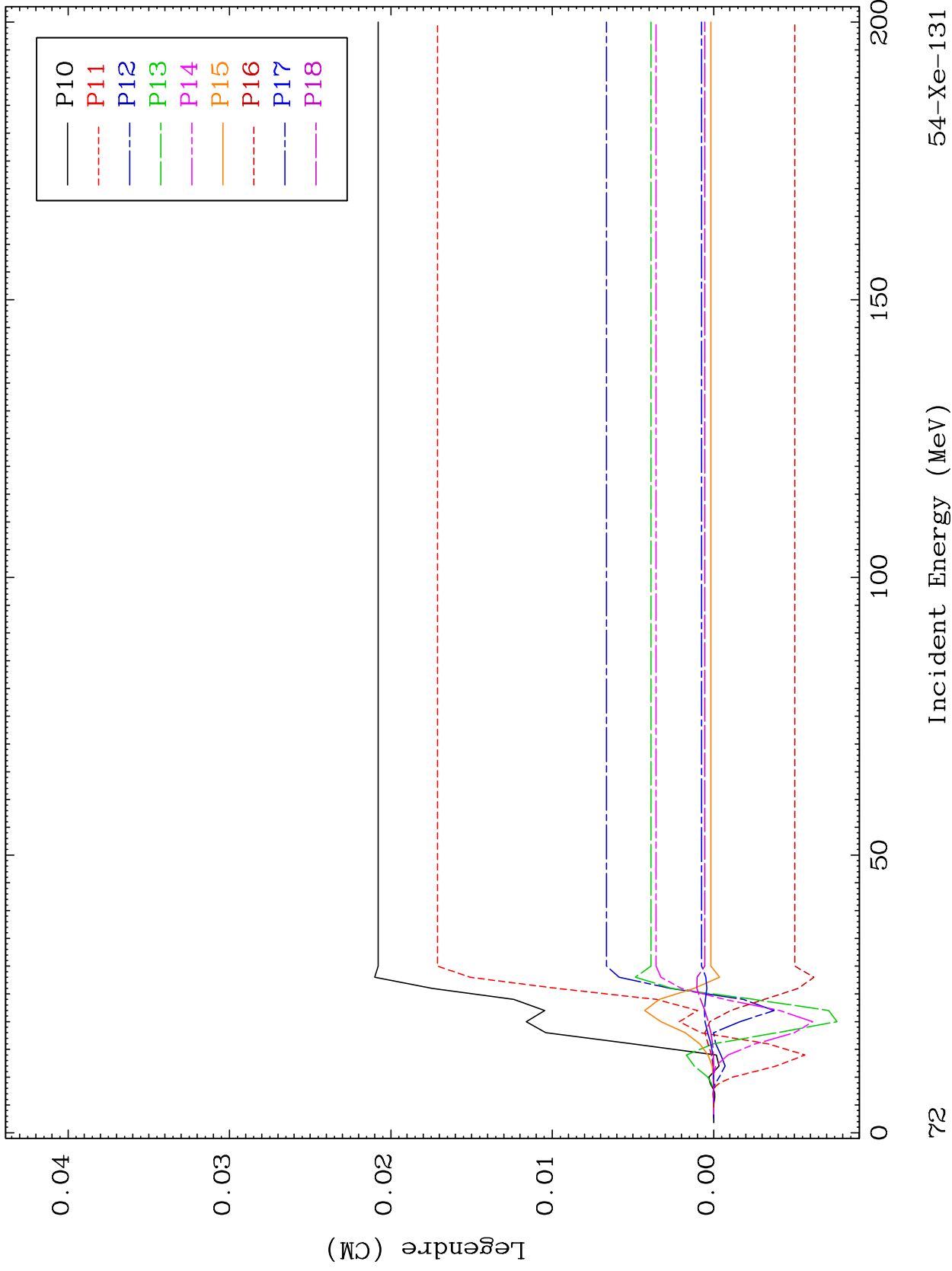
Incident Energy (MeV)

71

MAT 5446

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

54-Xe-131



72

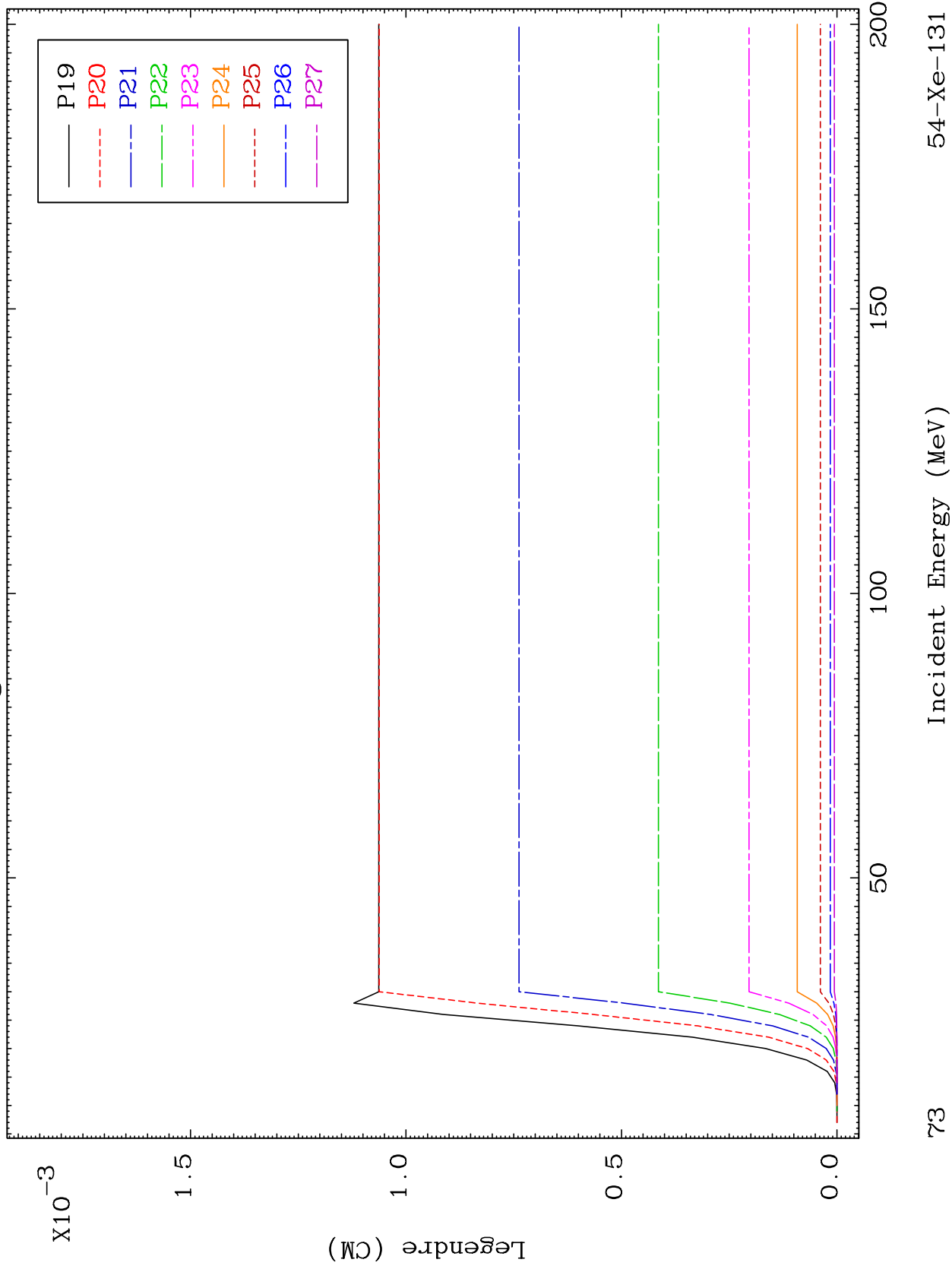
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

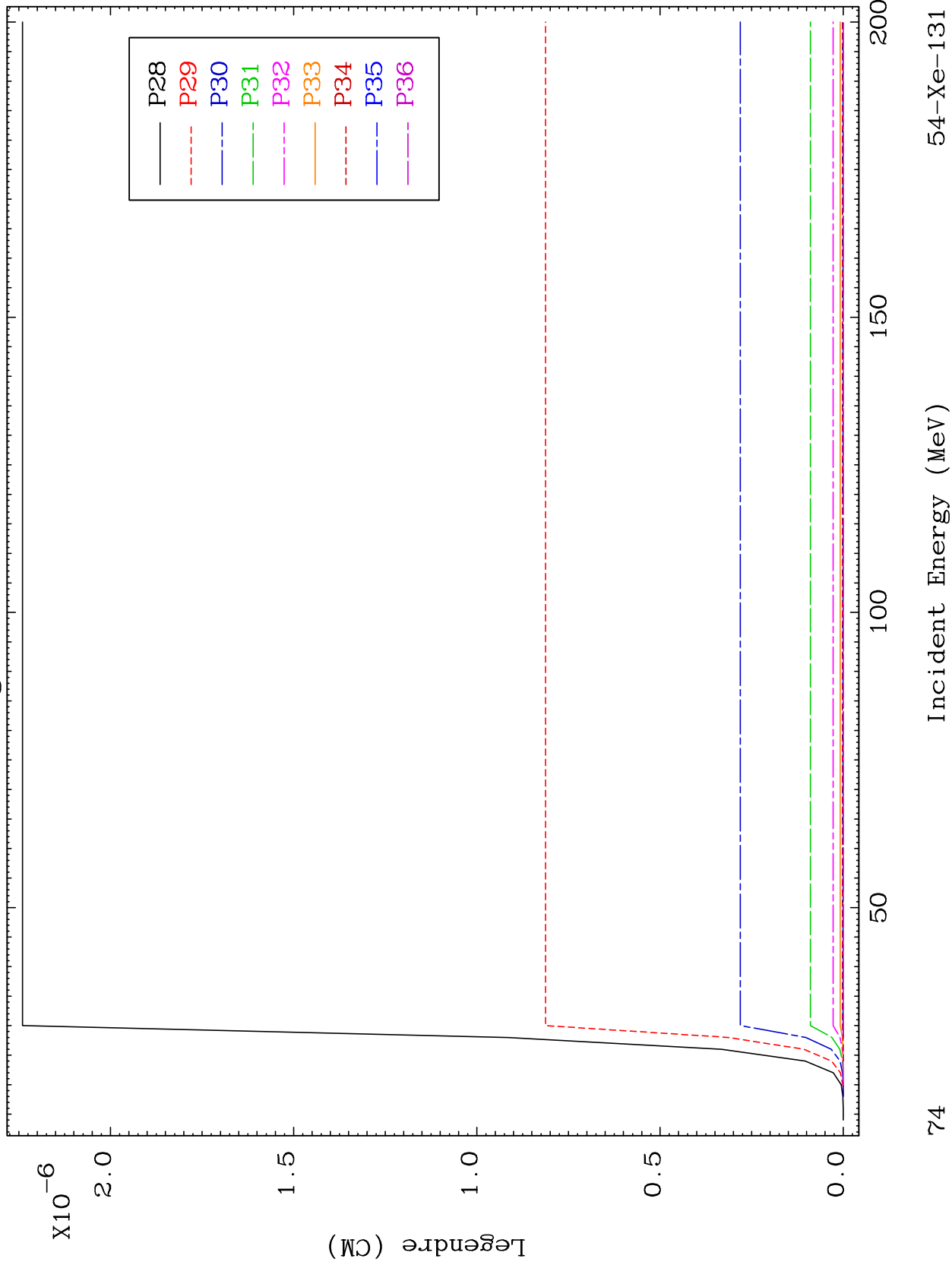
54-Xe-131



MAT 5446

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

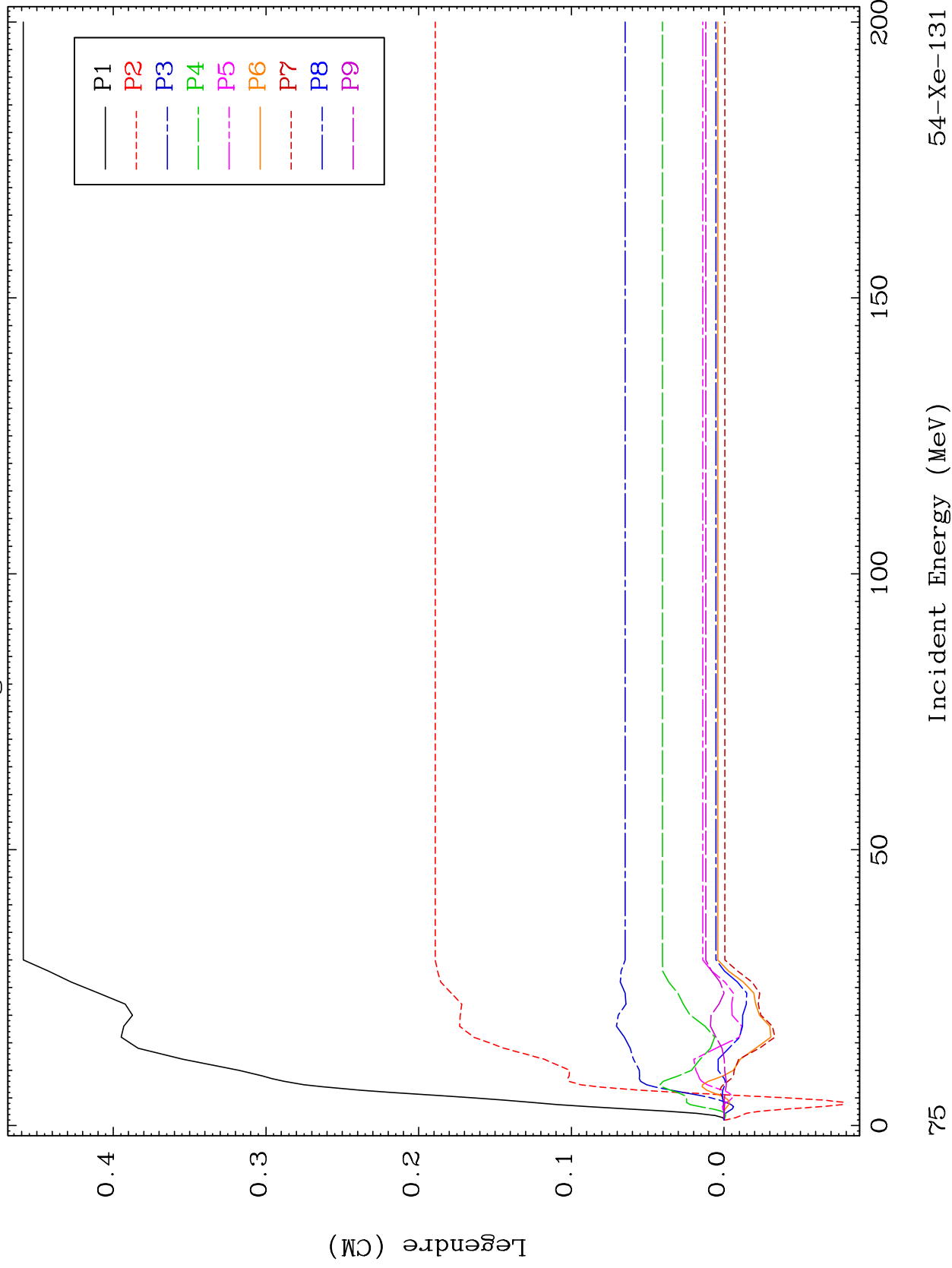
54-Xe-131



MAT 5446

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

54-Xe-131



54-Xe-131

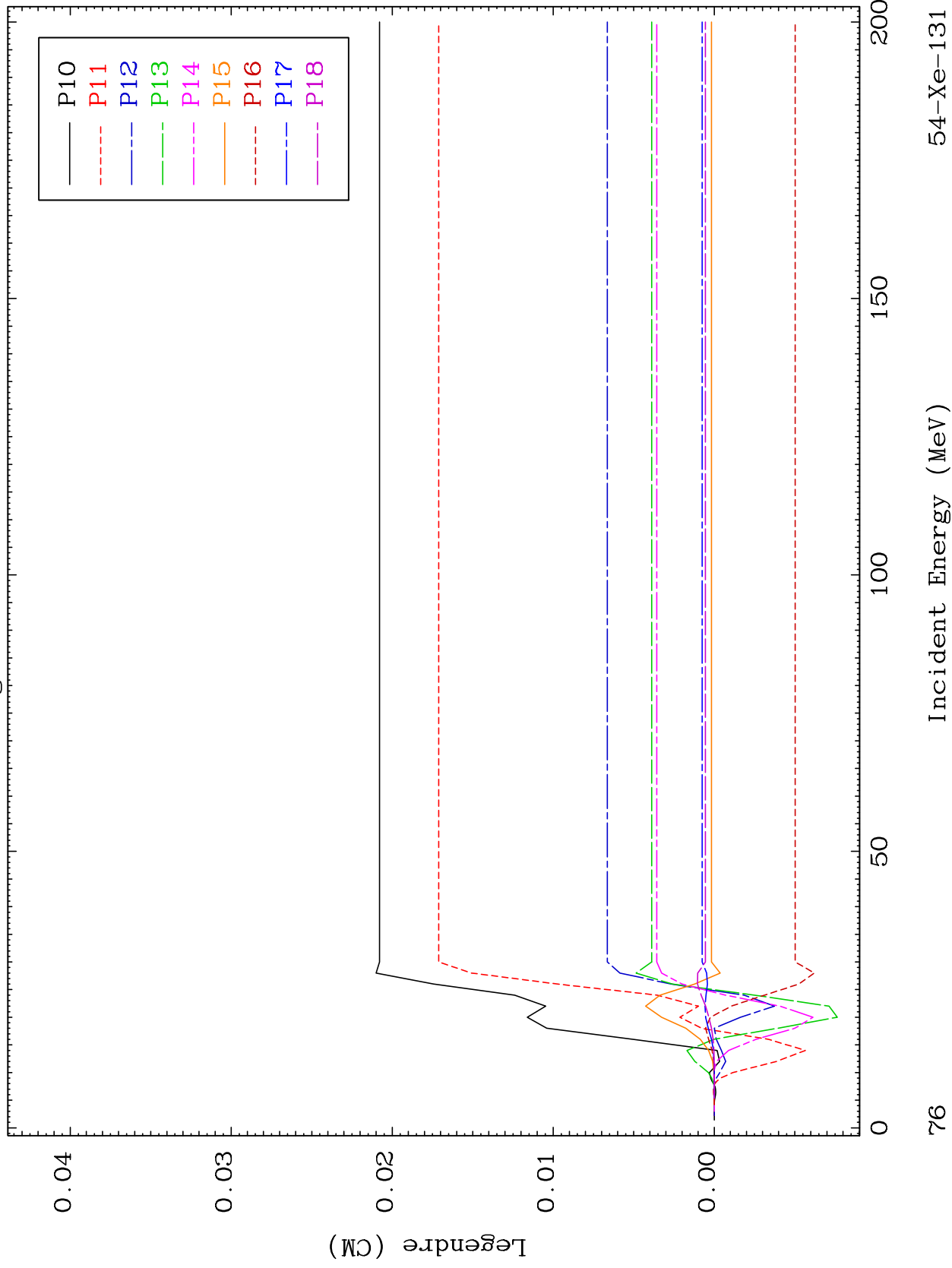
Incident Energy (MeV)

75

MAT 5446

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

54-Xe-131



54-Xe-131

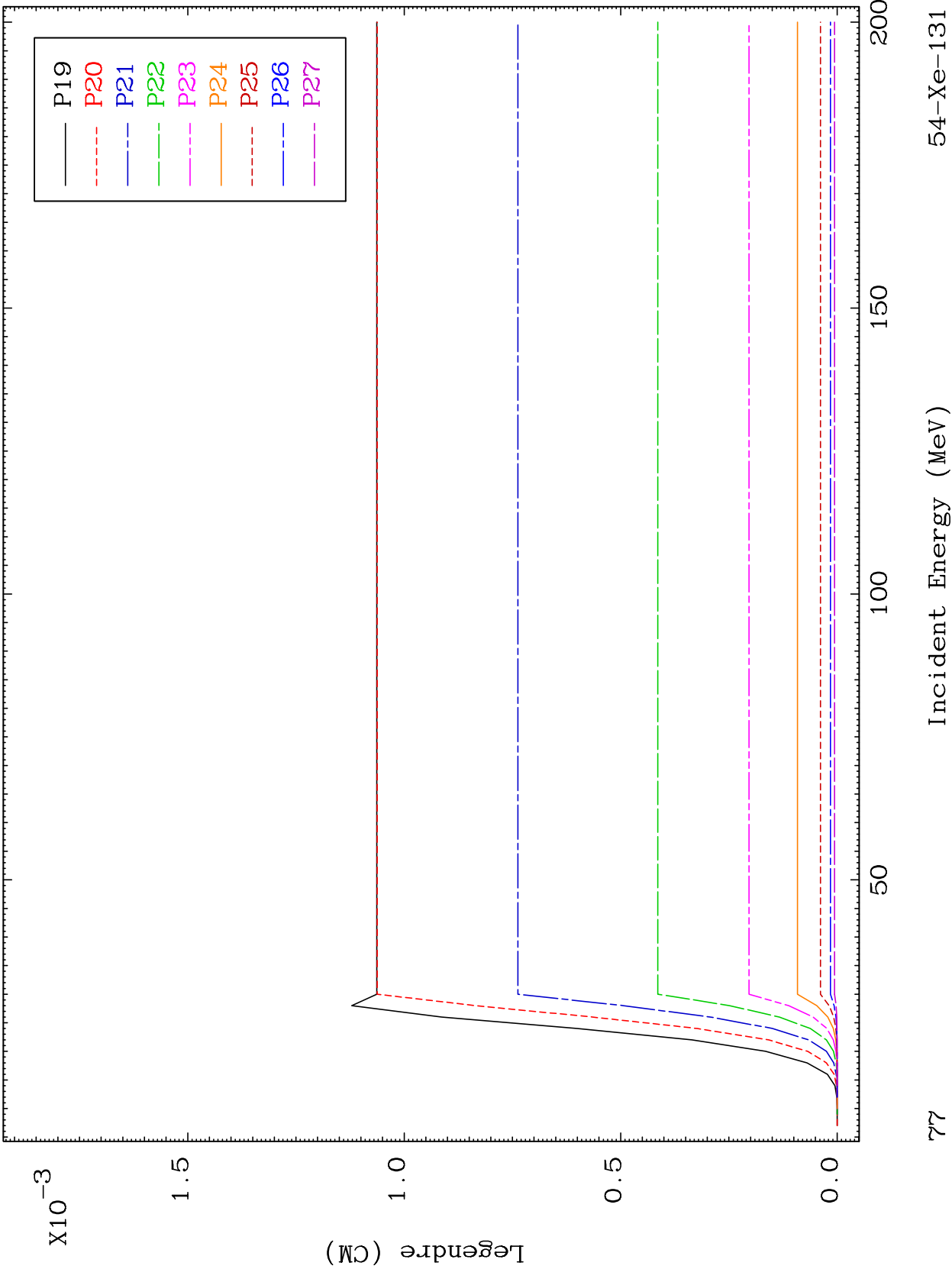
Incident Energy (MeV)

76

MAT 5446

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

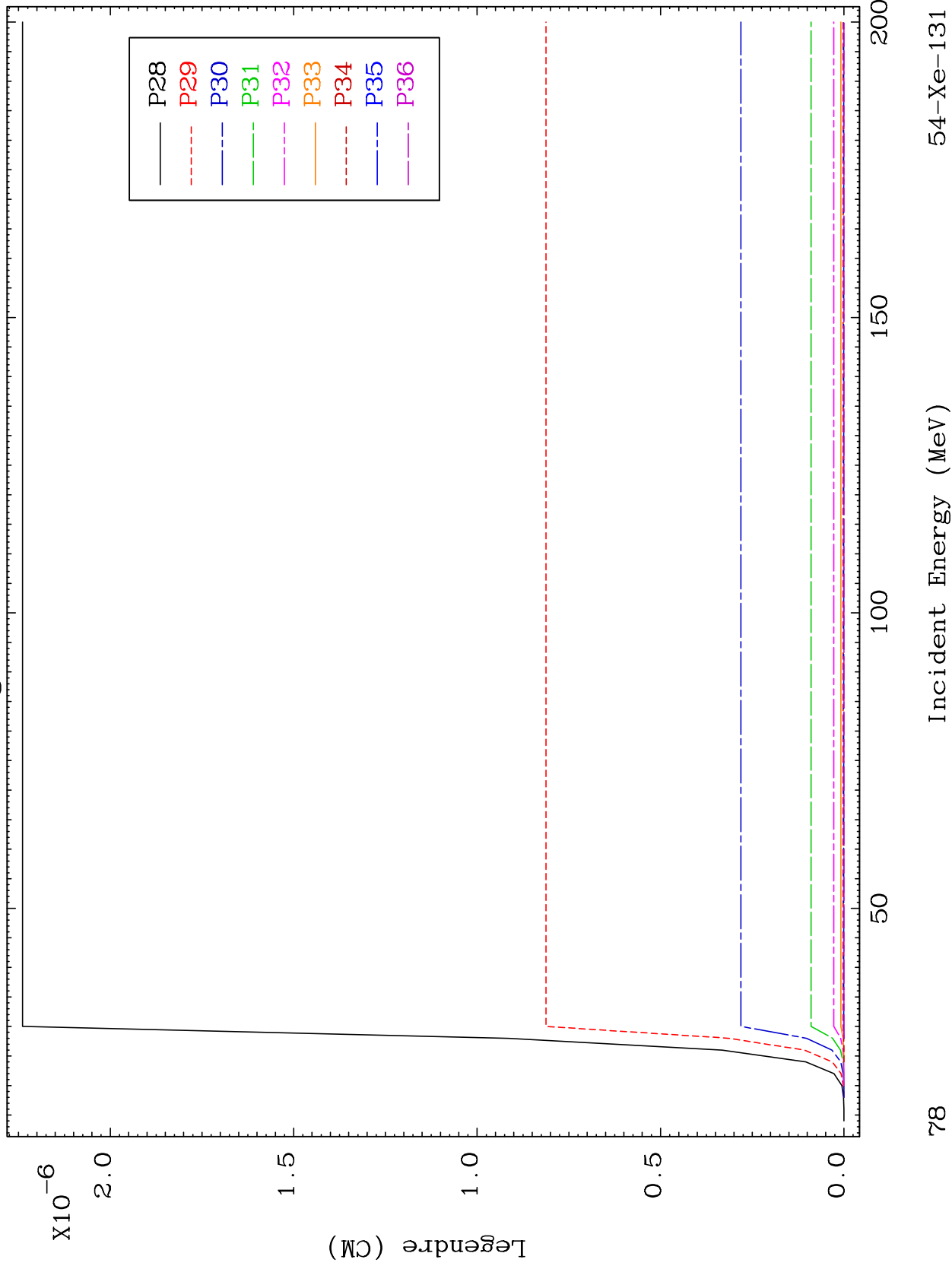
54-Xe-131



MAT 5446

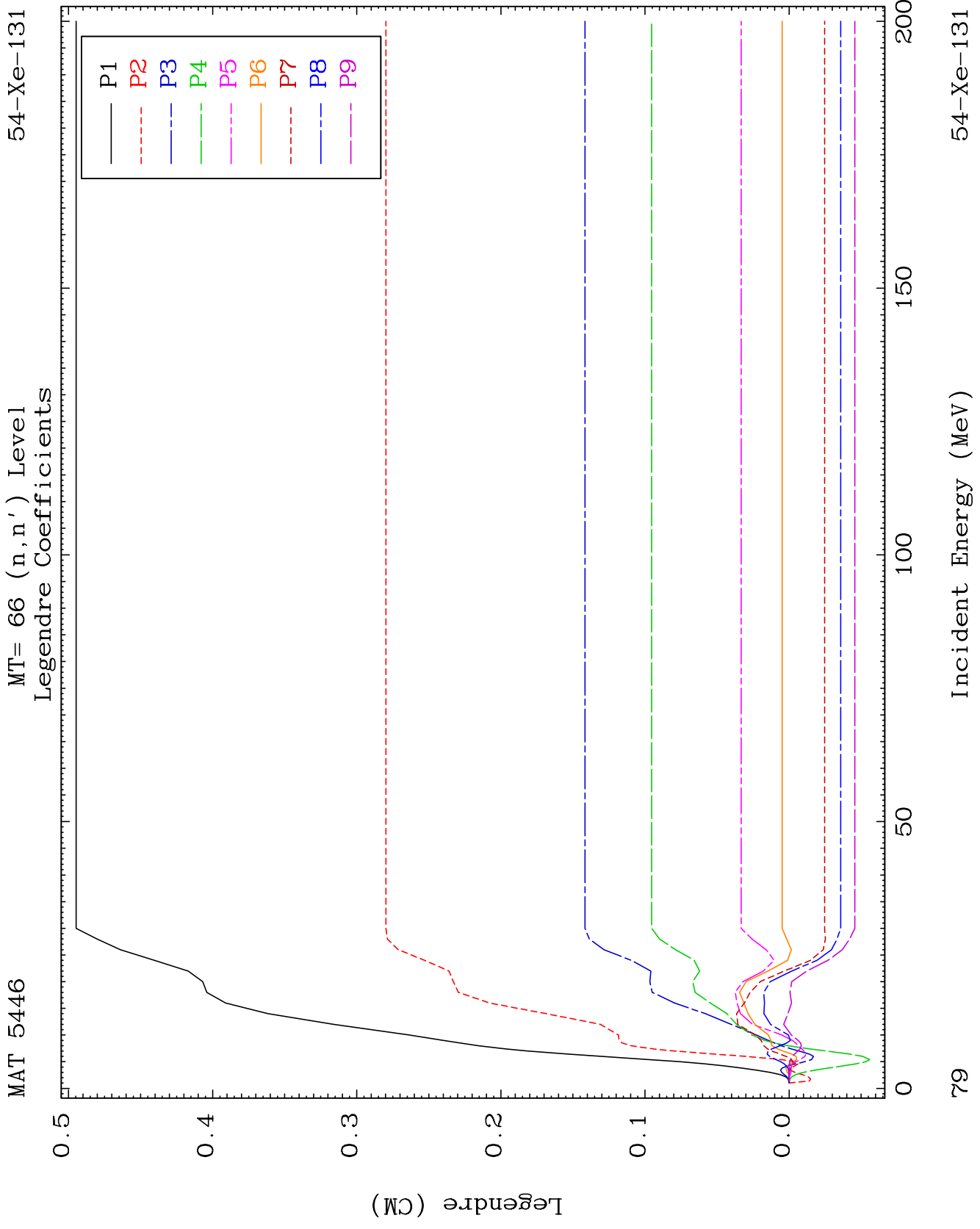
MT= 65 (n,n') Level
Legendre Coefficients

54-Xe-131



78

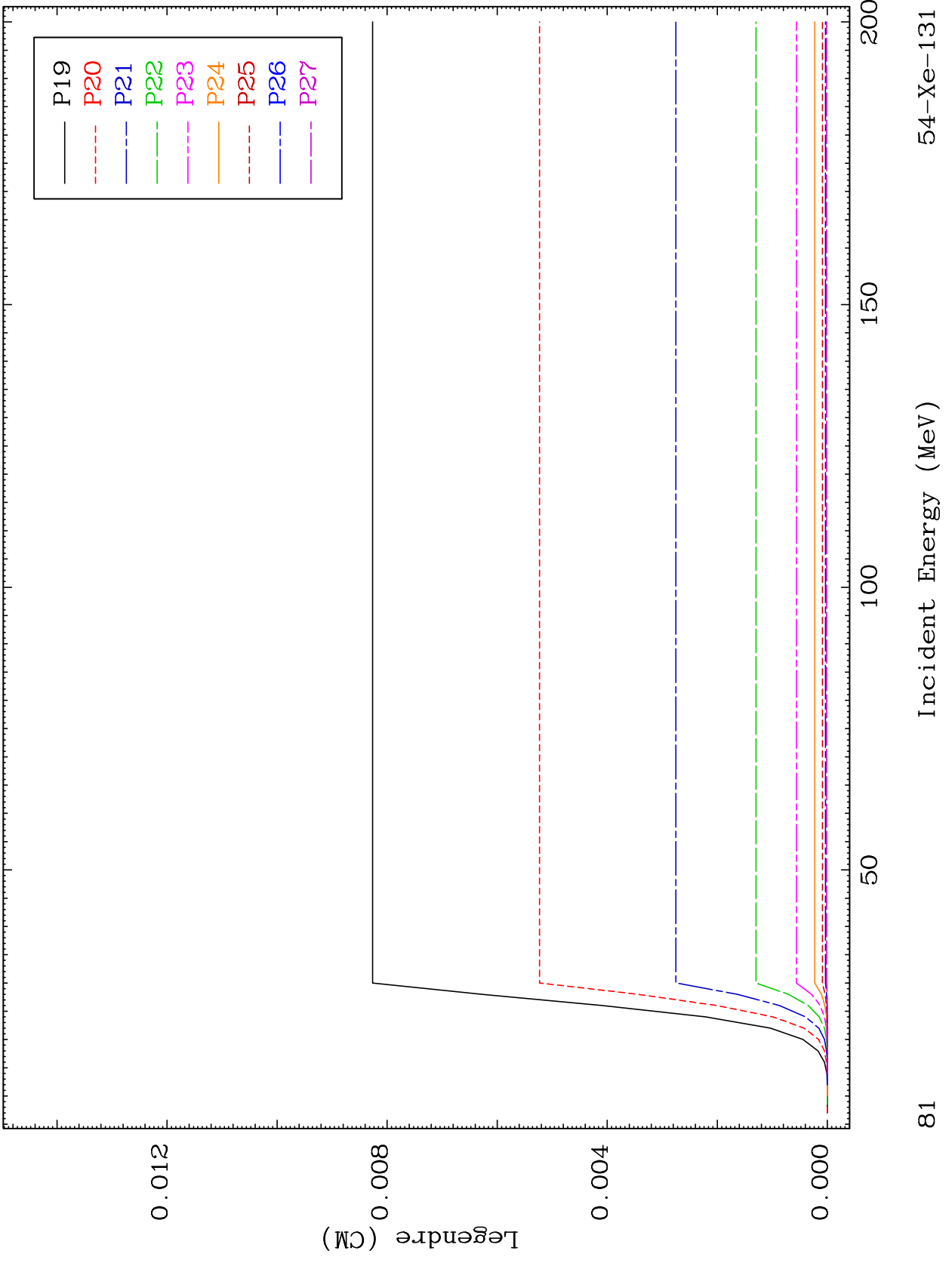
54-Xe-131



MAT 5446

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

54-Xe-131



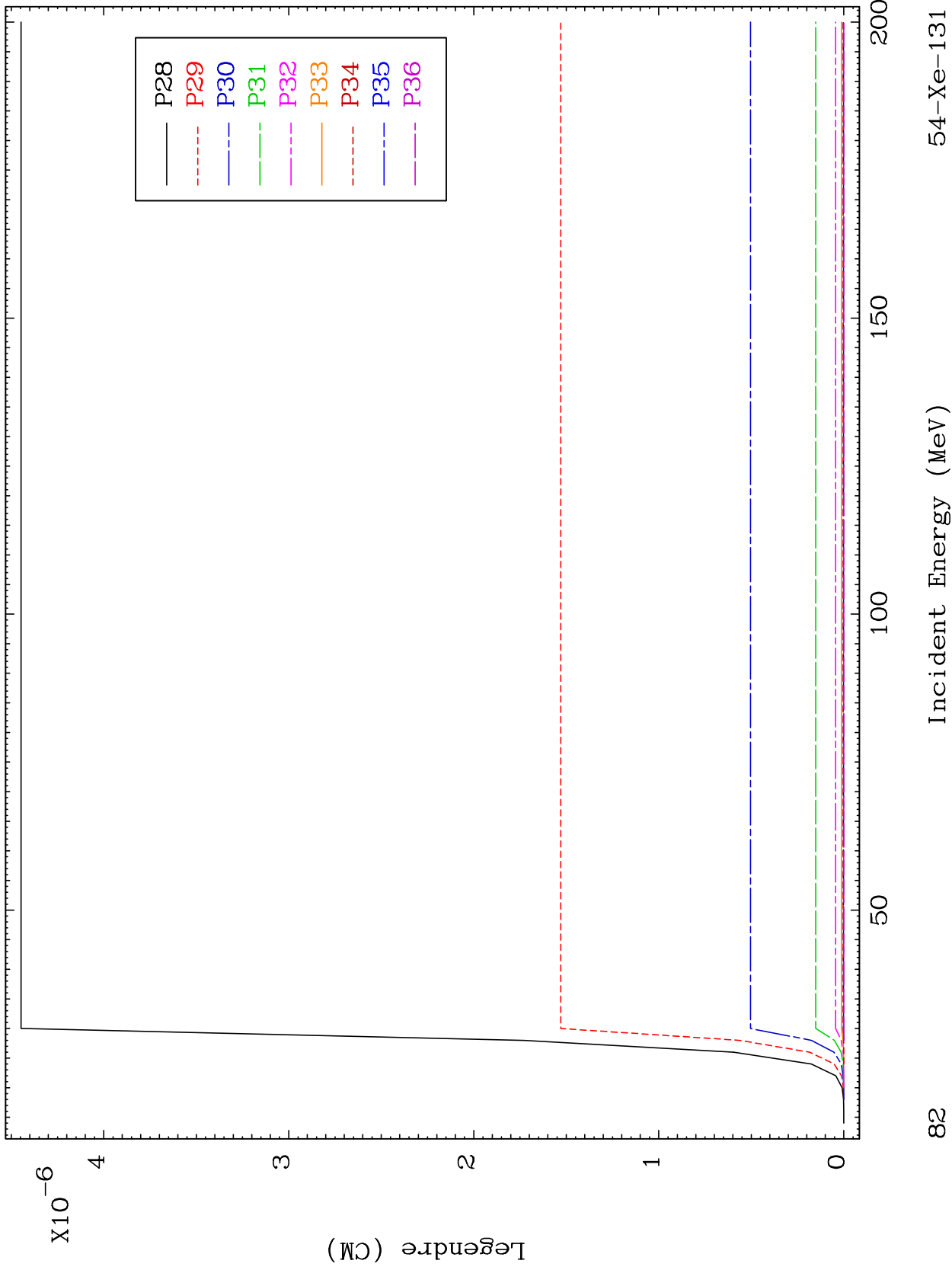
81

54-Xe-131

MAT 5446

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

54-Xe-131

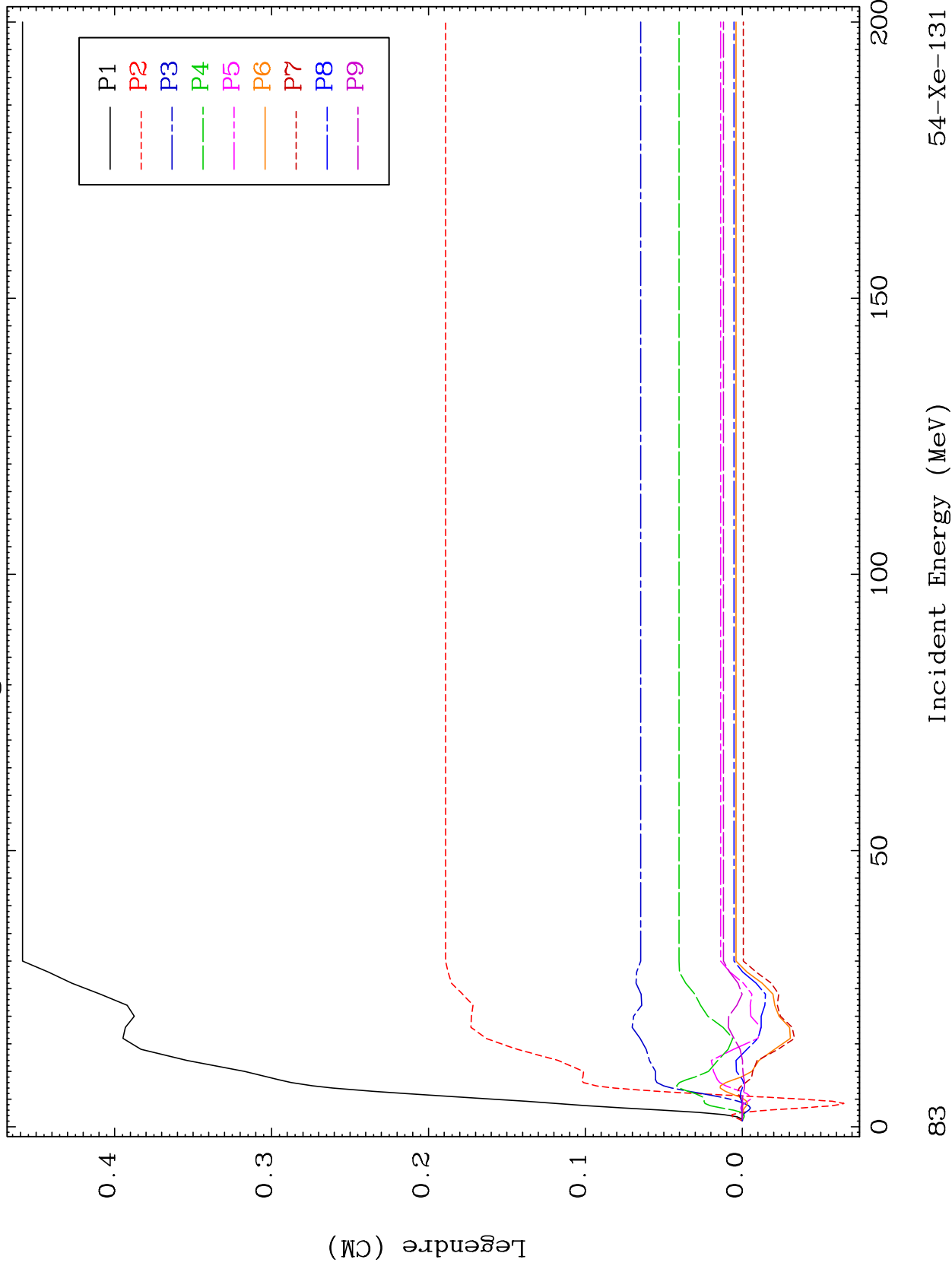


MAT 5446

MT= 67 (n,n') Level

54-Xe-131

Legendre Coefficients



83

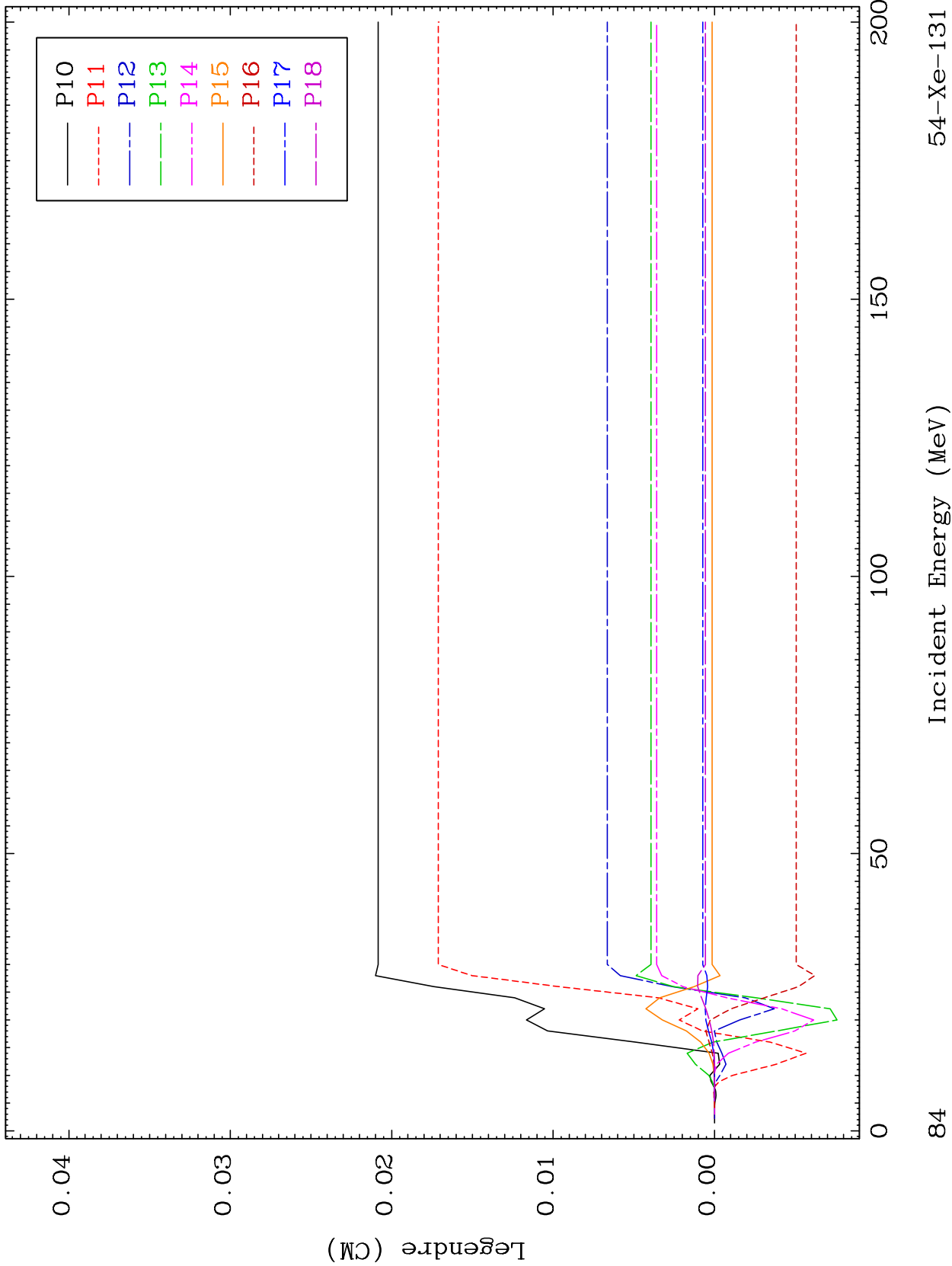
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



54-Xe-131

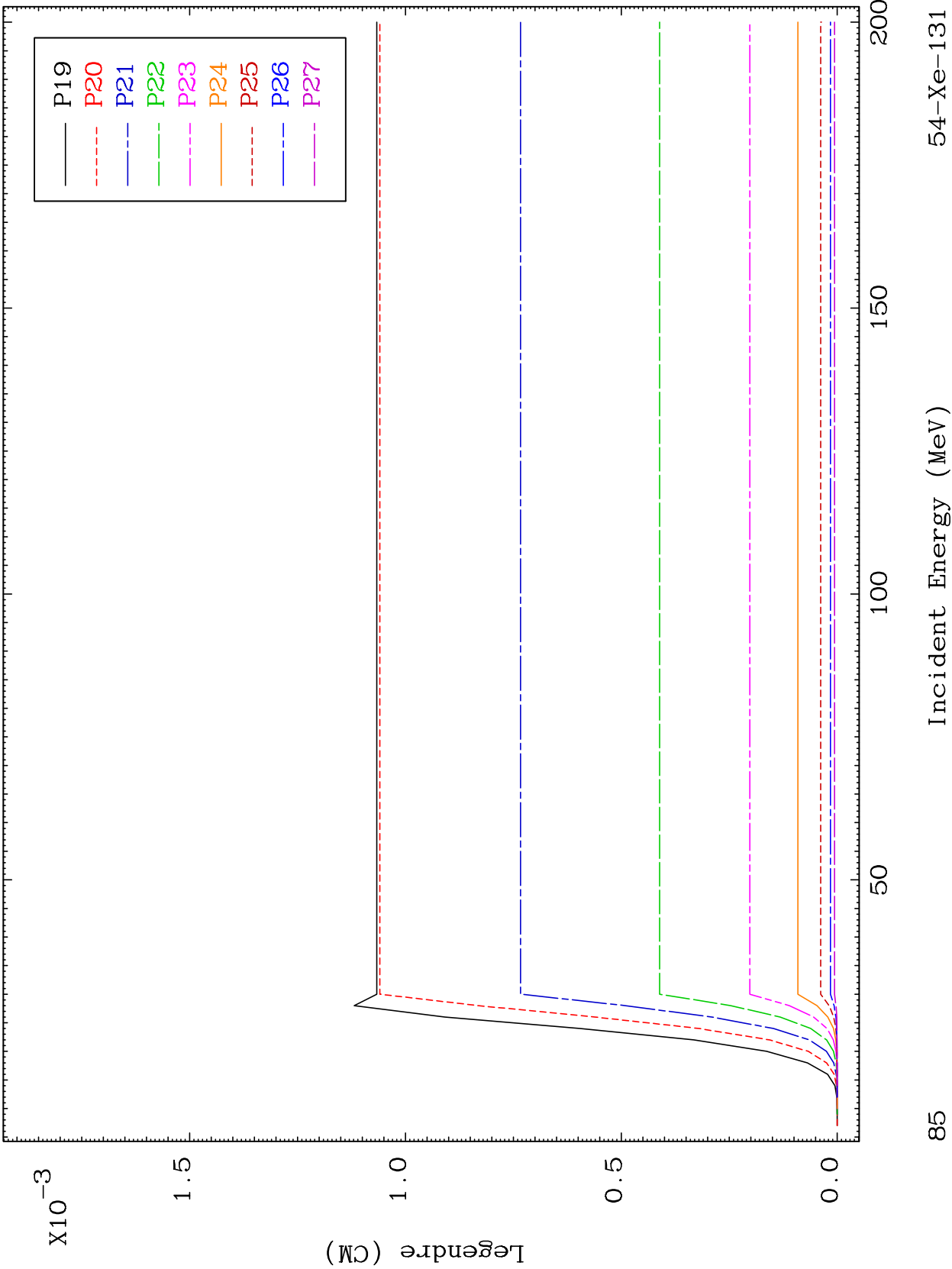
Incident Energy (MeV)

84

MAT 5446

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

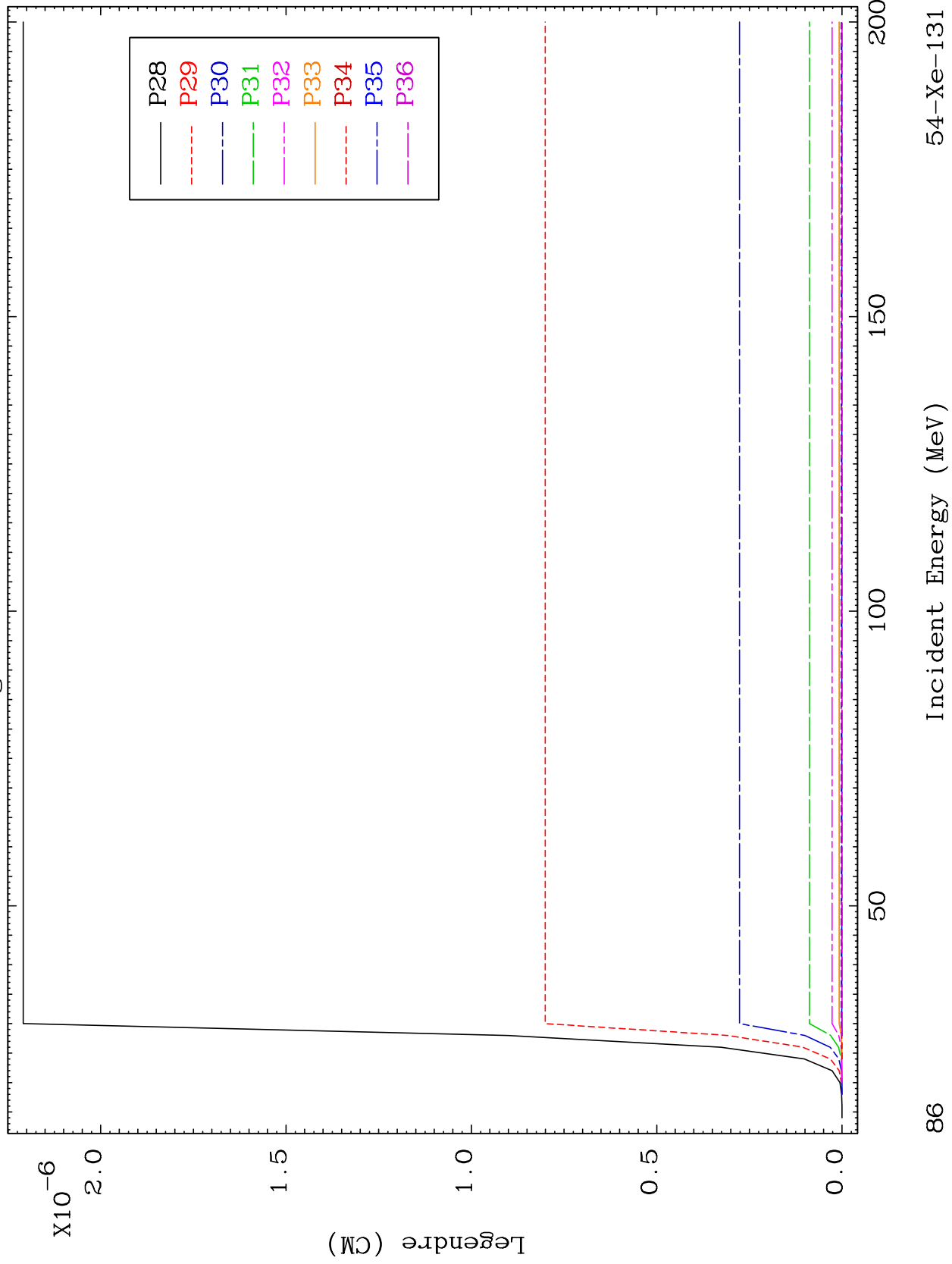
54-Xe-131



MAT 5446

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

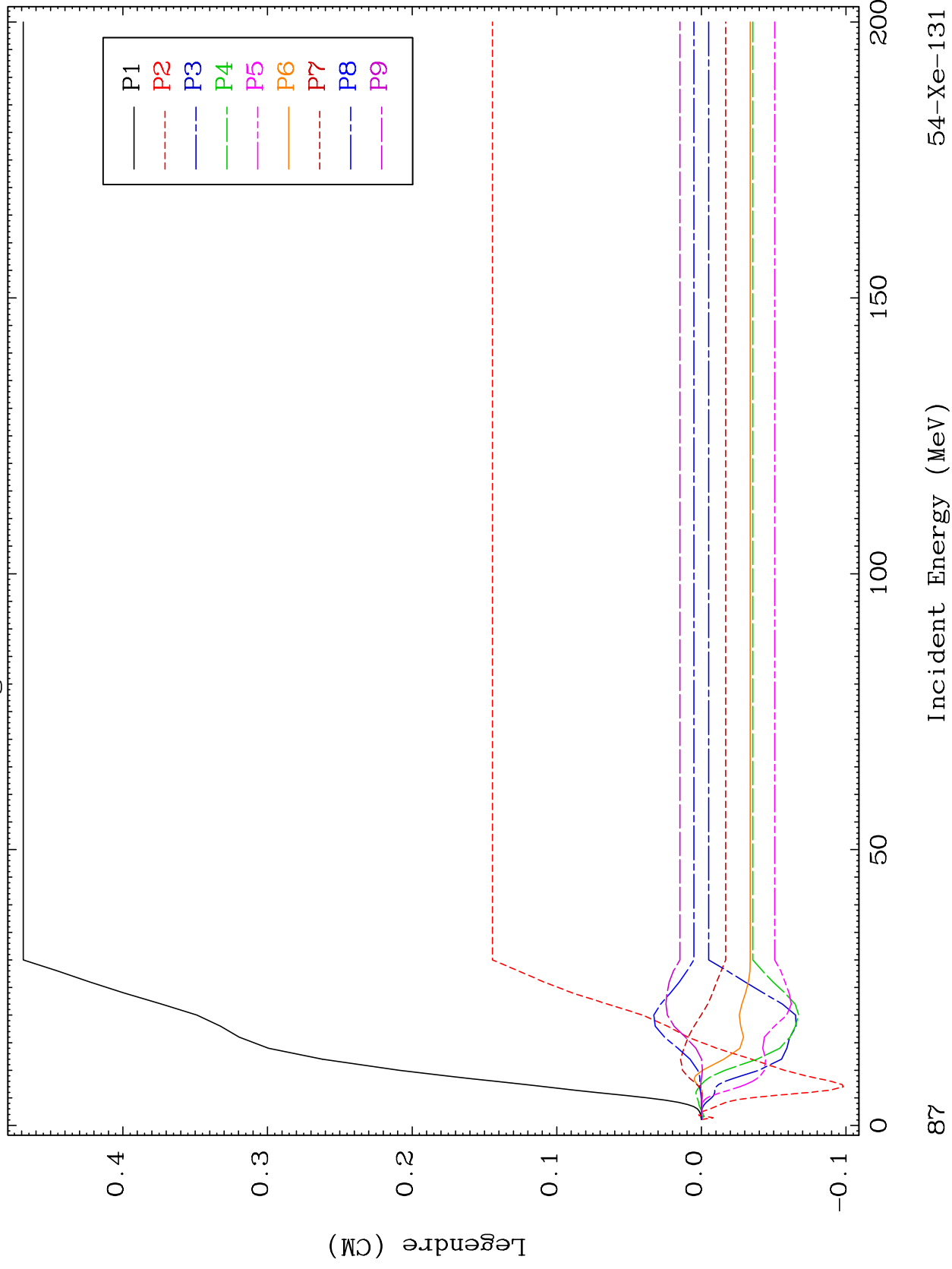
54-Xe-131



MAT 5446

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

54-Xe-131



87

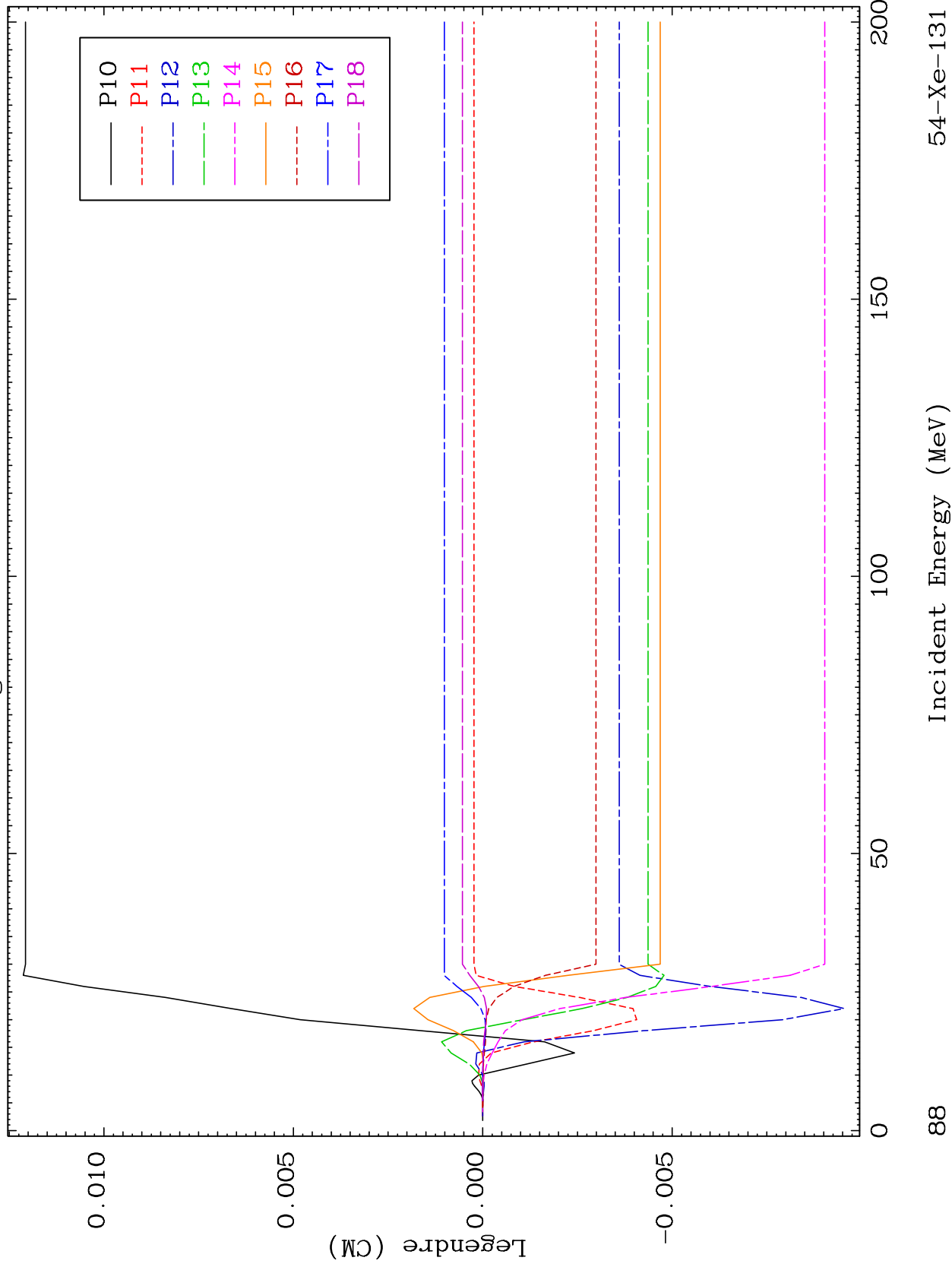
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

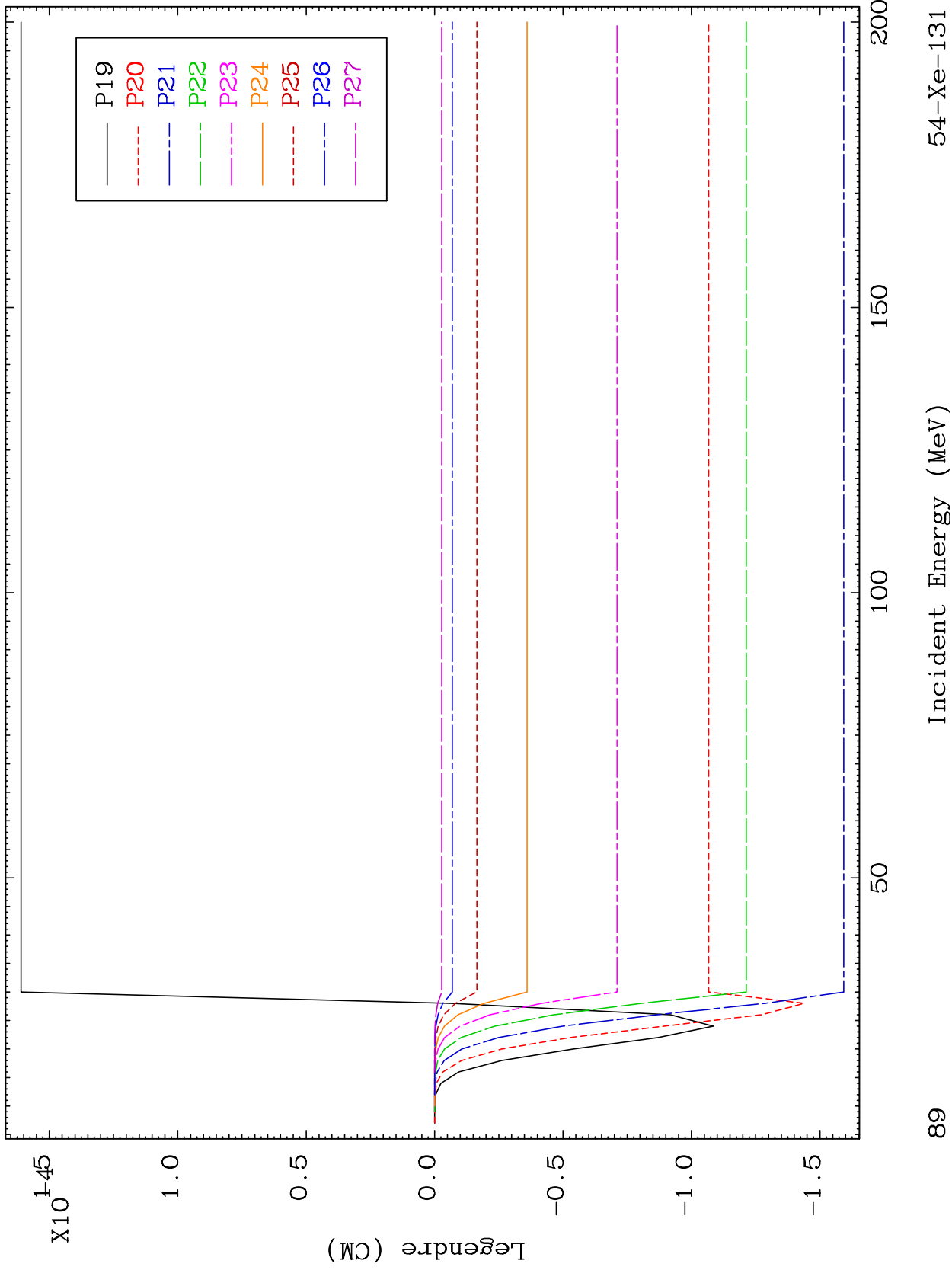
54-Xe-131

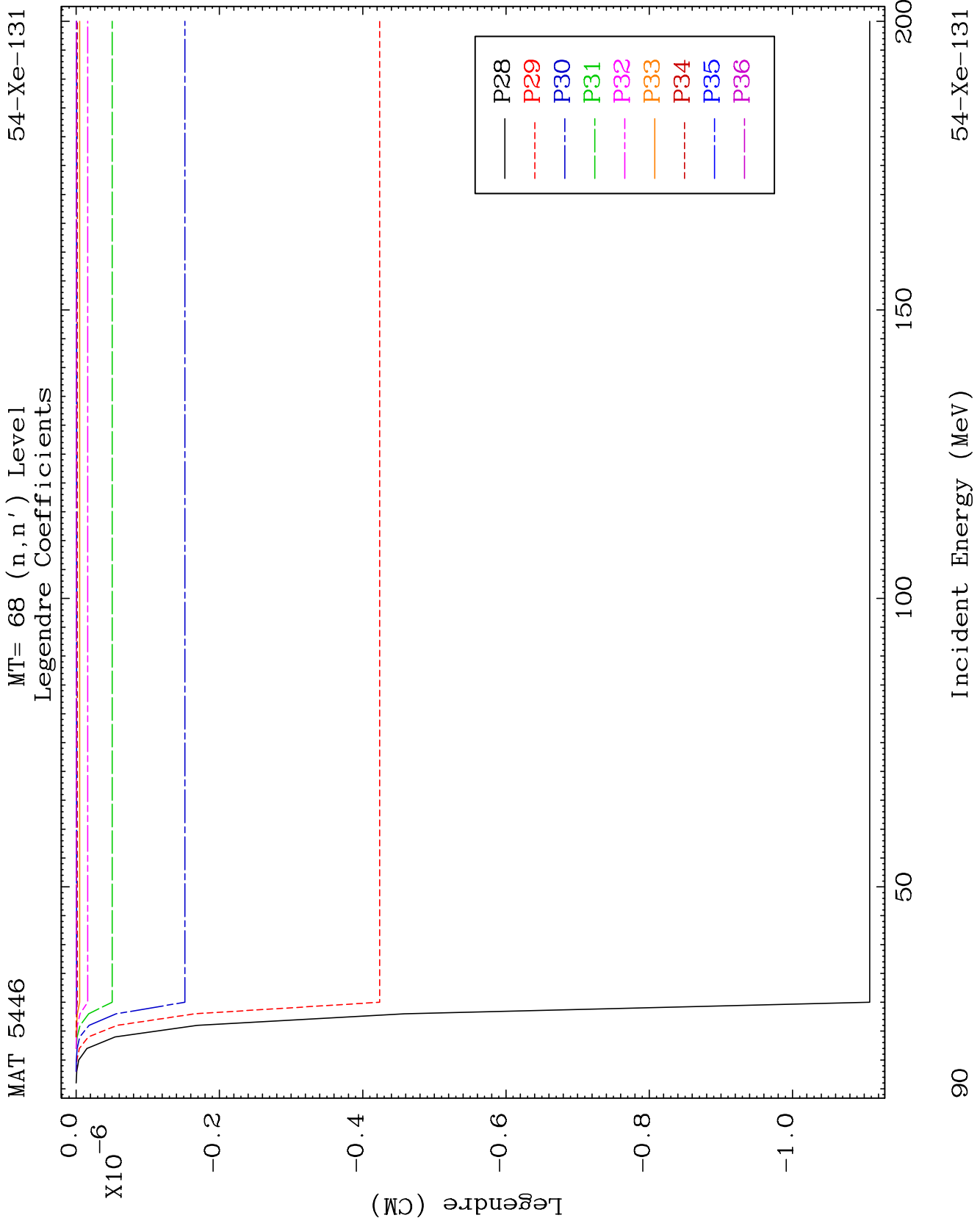


88

Incident Energy (MeV)

54-Xe-131

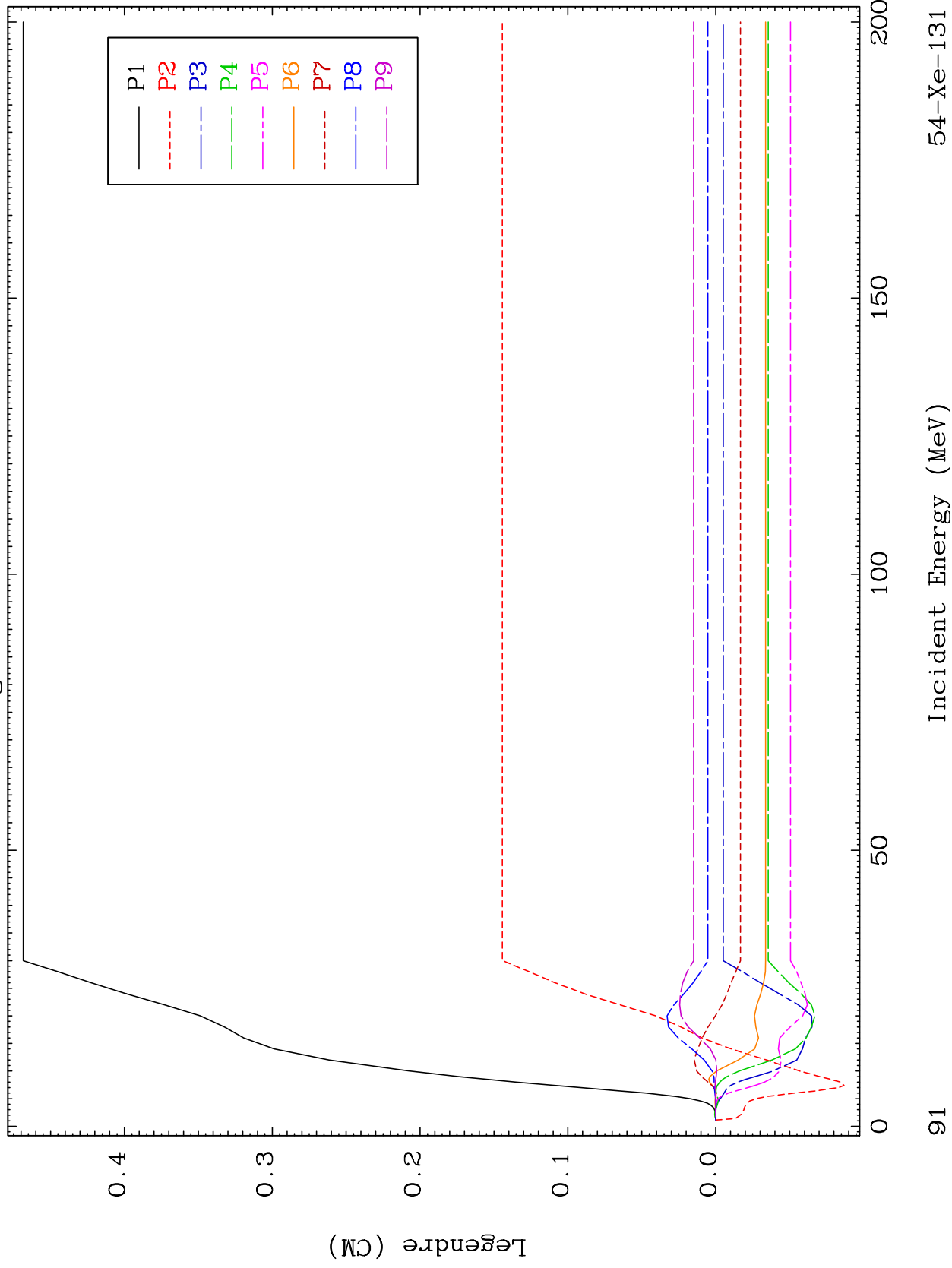




MAT 5446

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

54-Xe-131



91

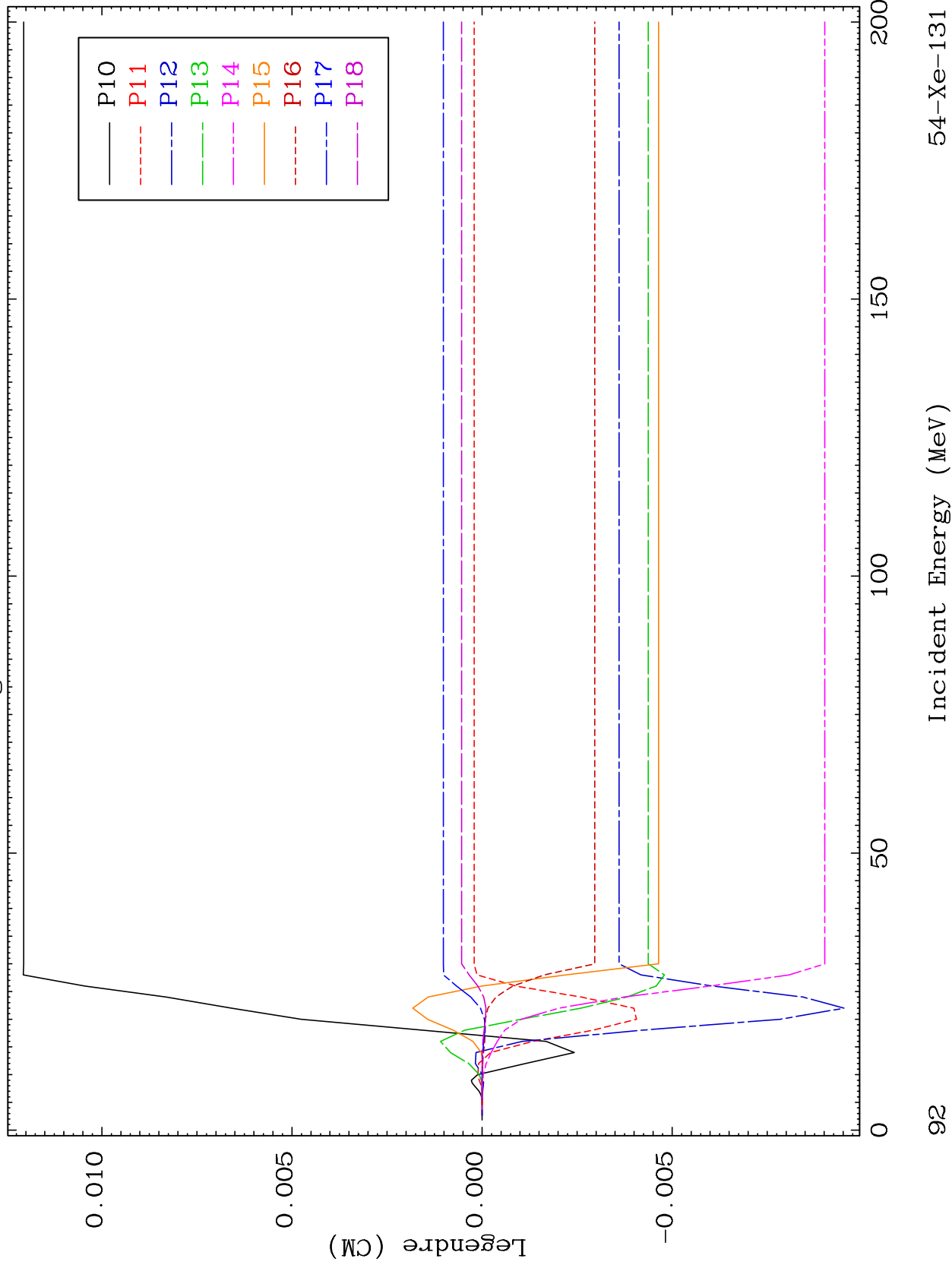
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



92

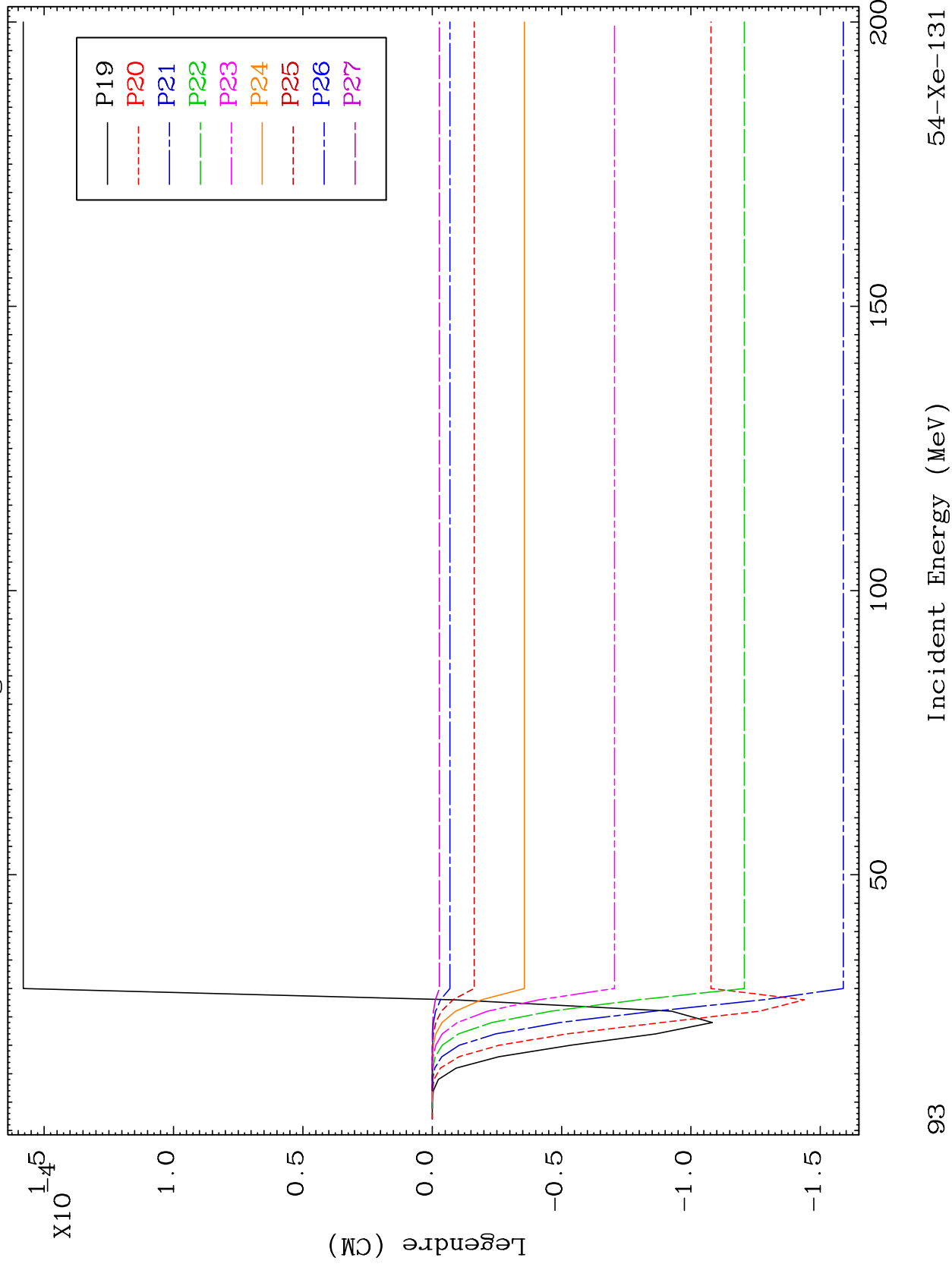
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



93

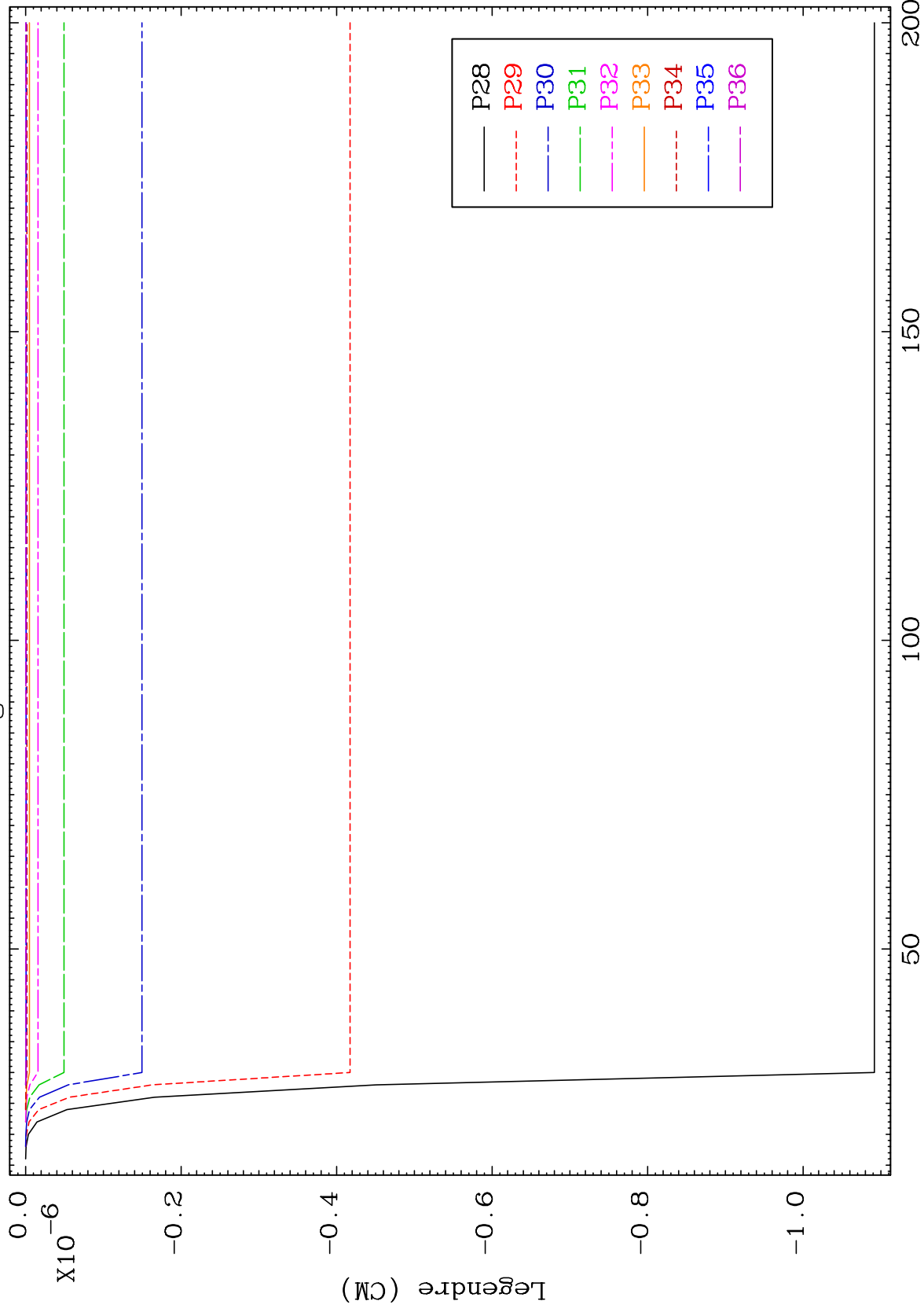
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



94

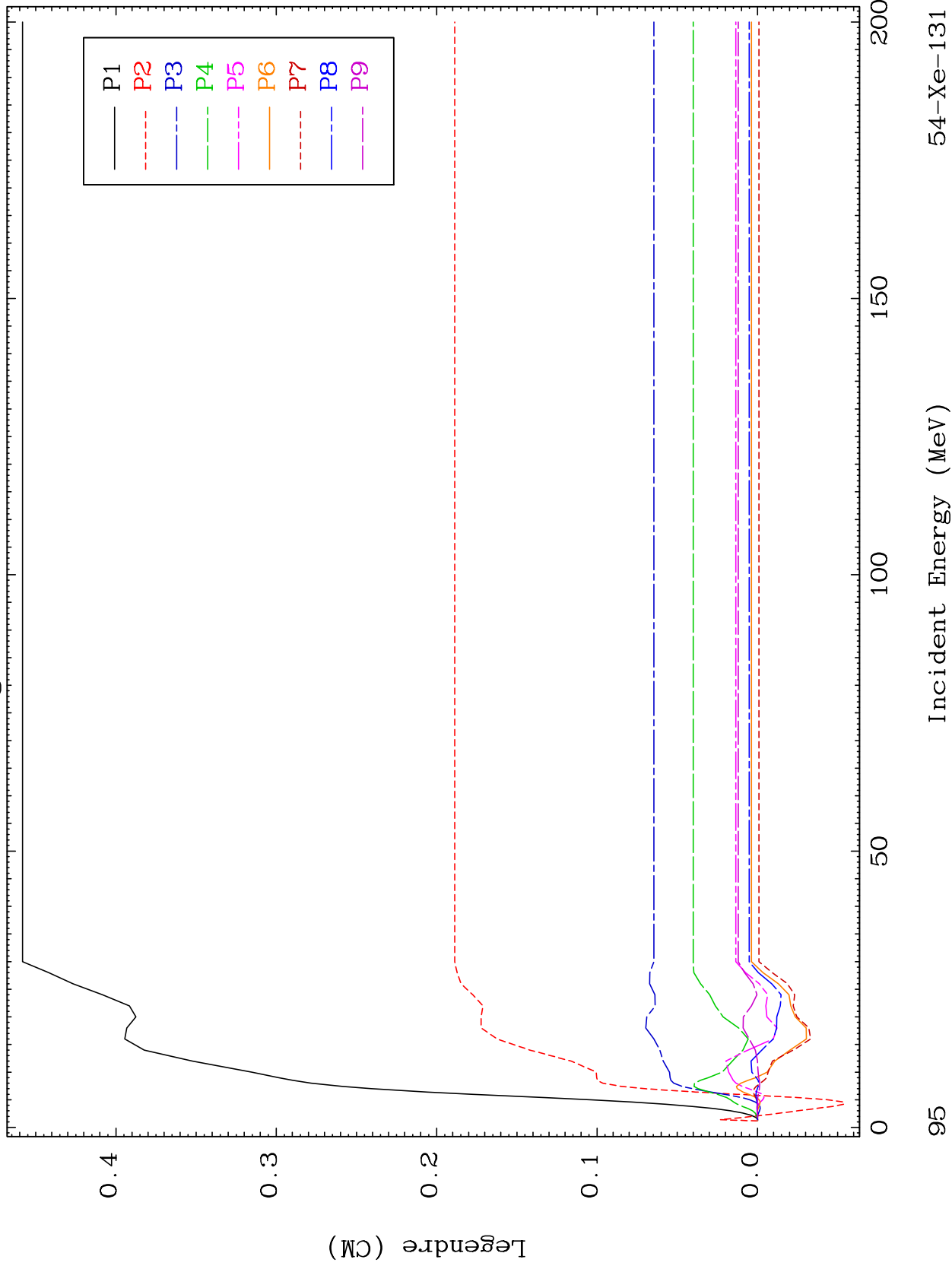
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



54-Xe-131

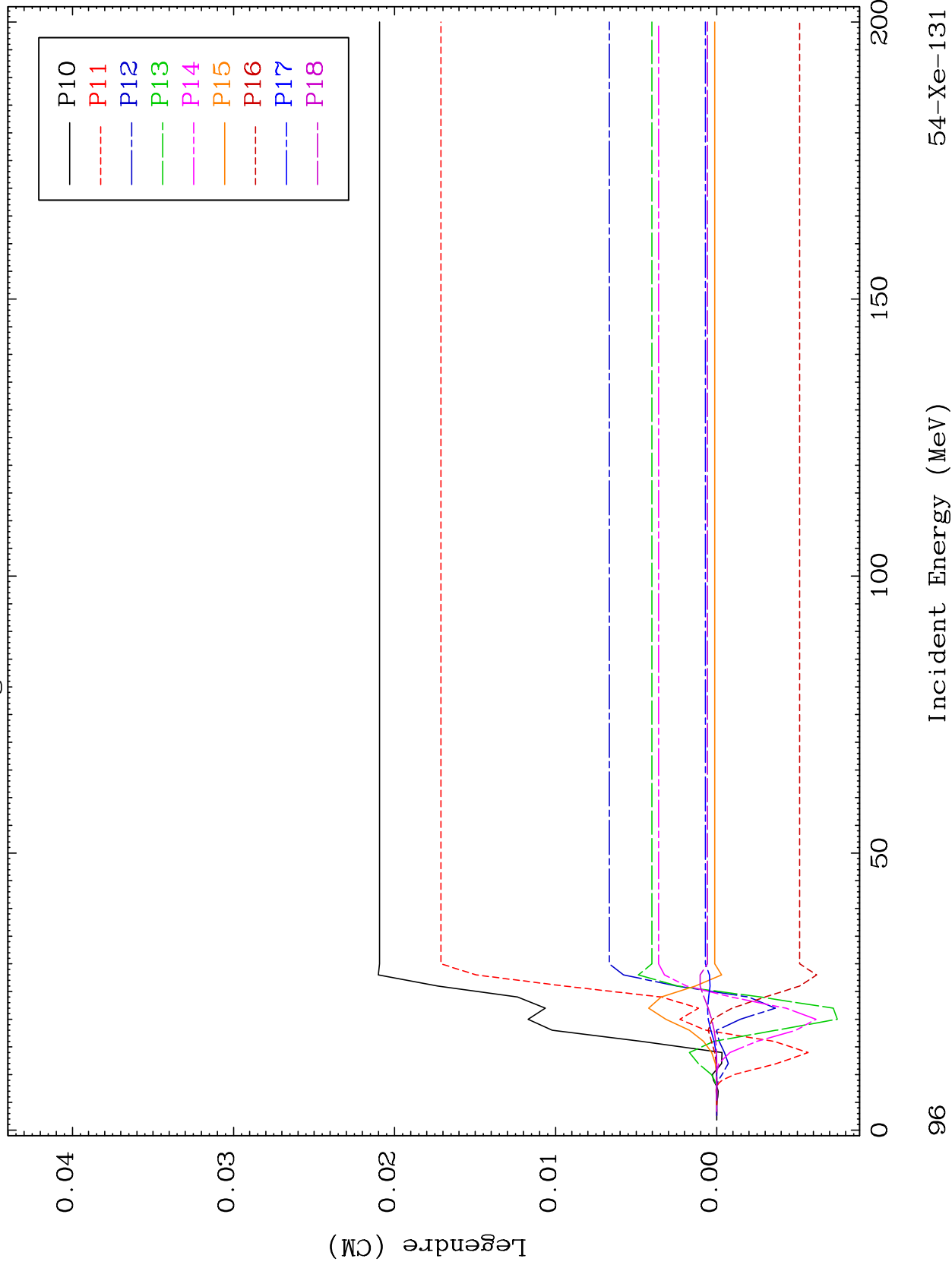
Incident Energy (MeV)

95

MAT 5446

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

54-Xe-131



54-Xe-131

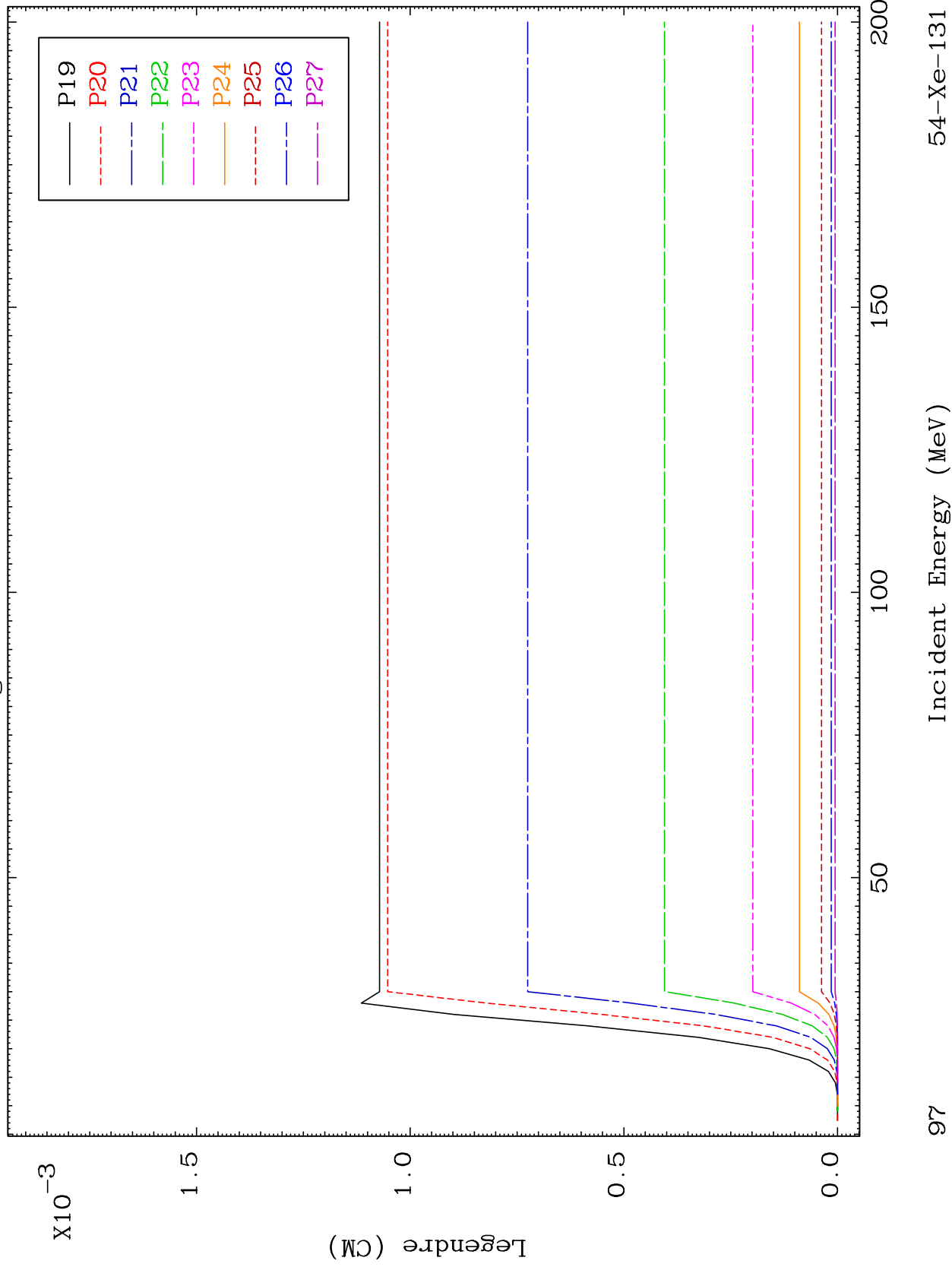
Incident Energy (MeV)

96

MAT 5446

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

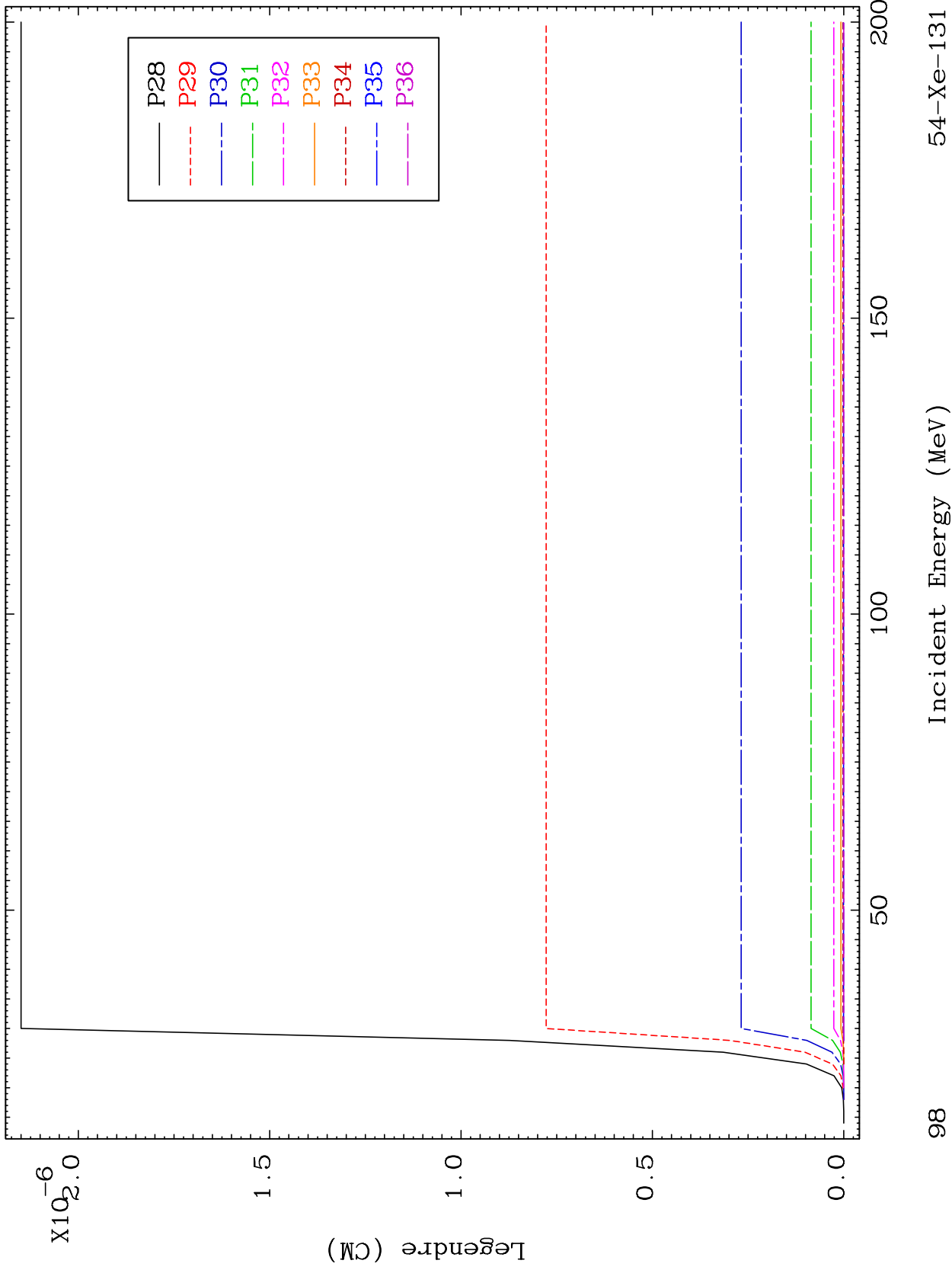
54-Xe-131



MAT 5446

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

54-Xe-131



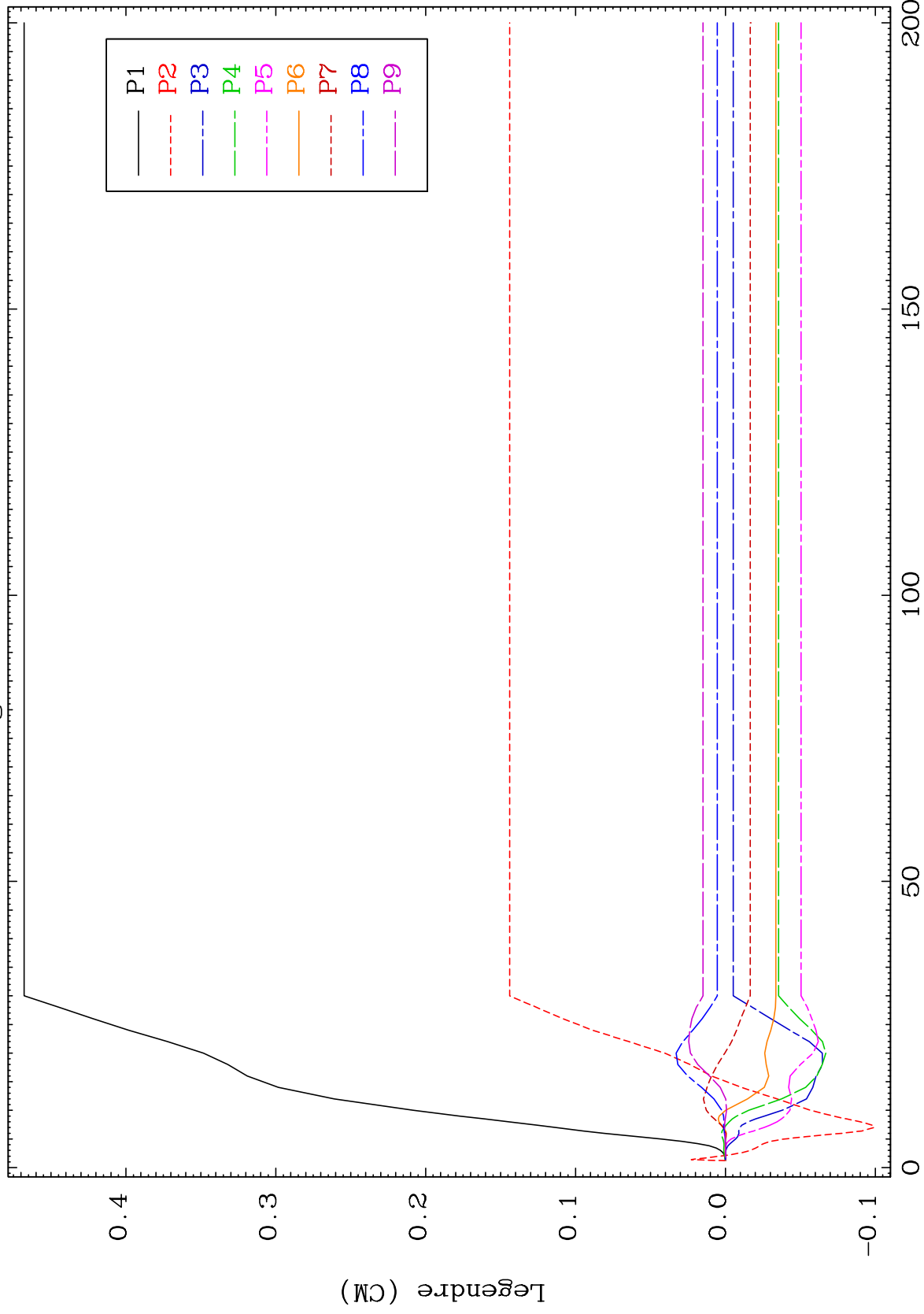
98

54-Xe-131

MAT 5446

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

54-Xe-131



99

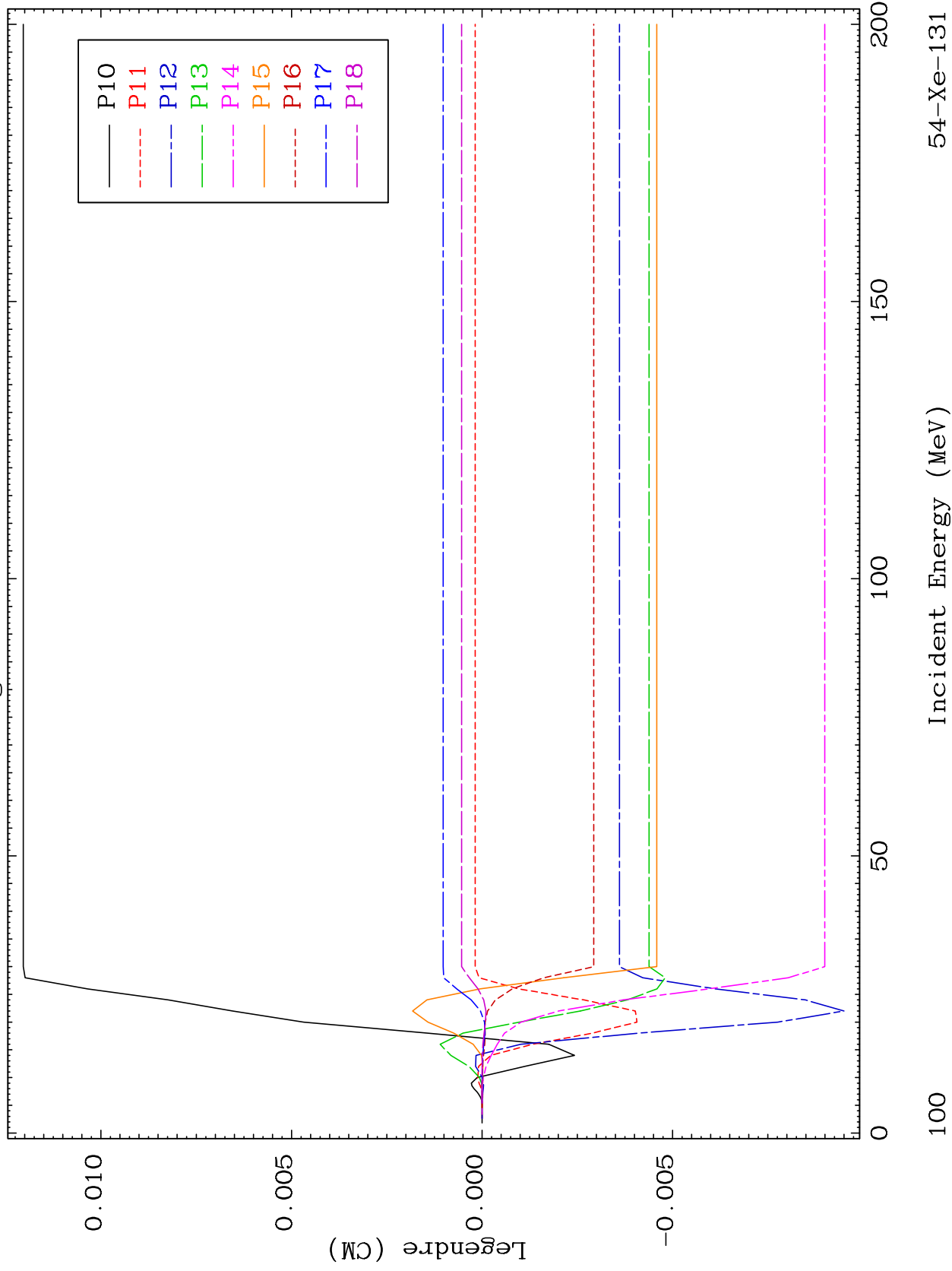
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



54-Xe-131

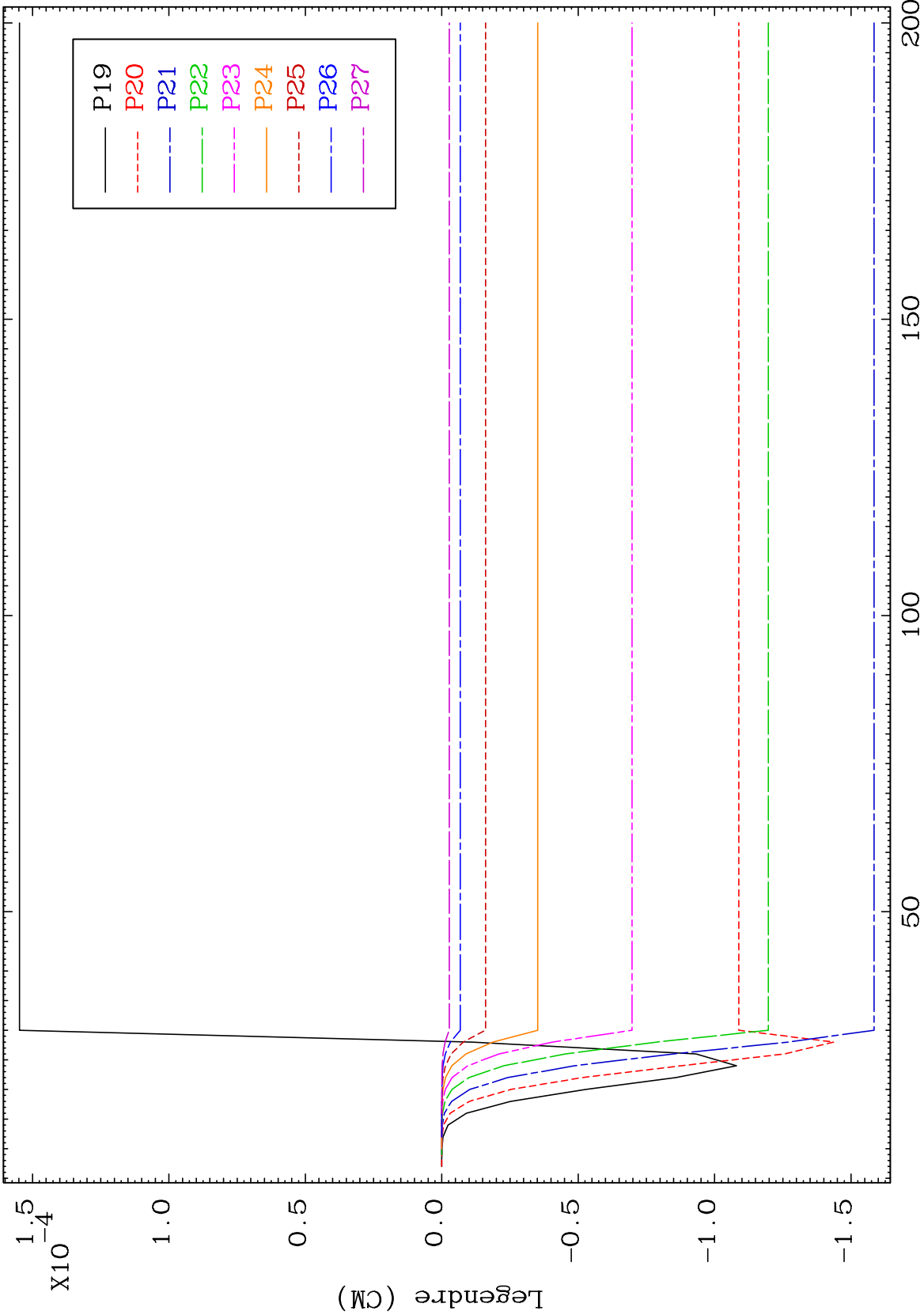
Incident Energy (MeV)

100

MAT 5446

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

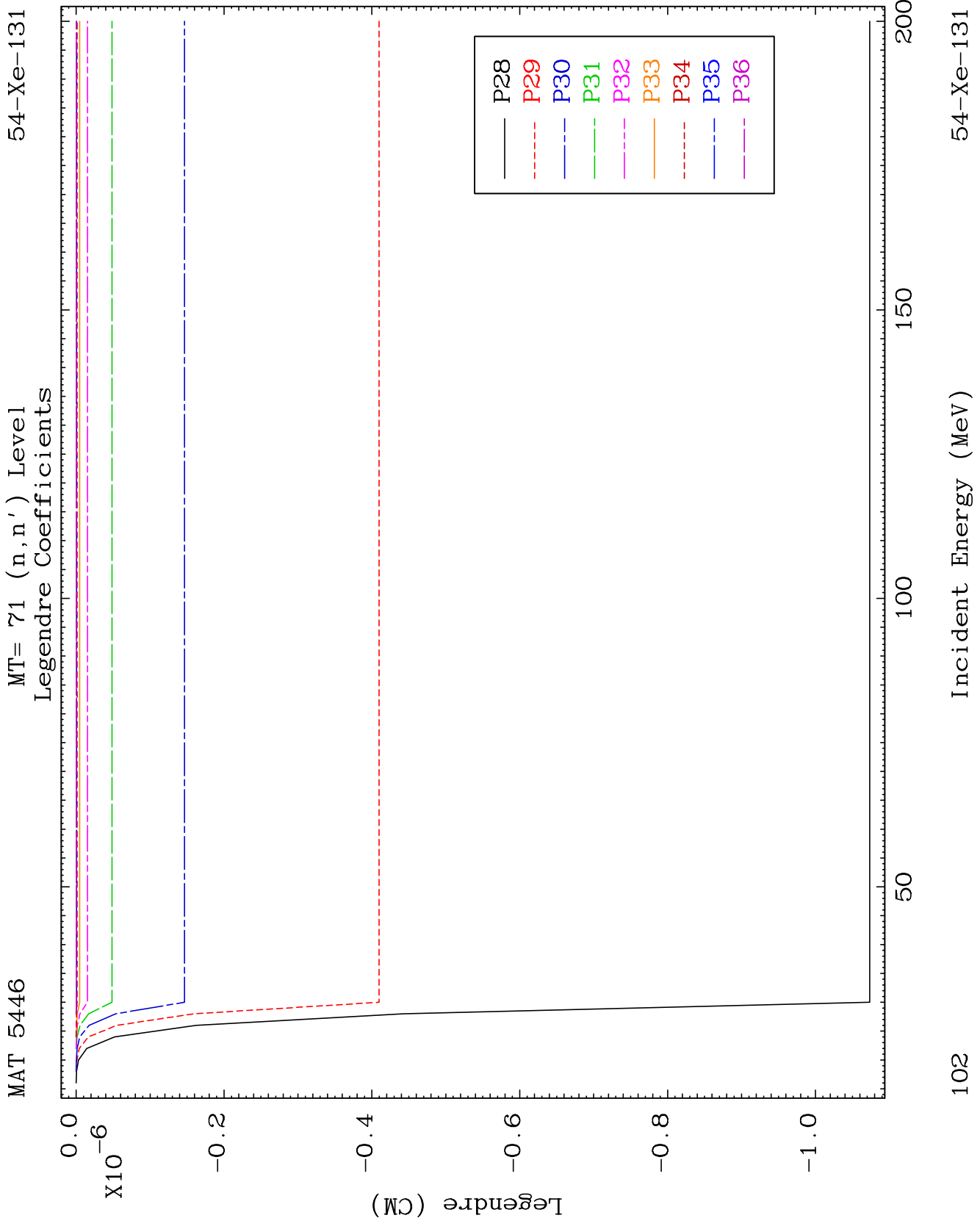
54-Xe-131



101

Incident Energy (MeV)

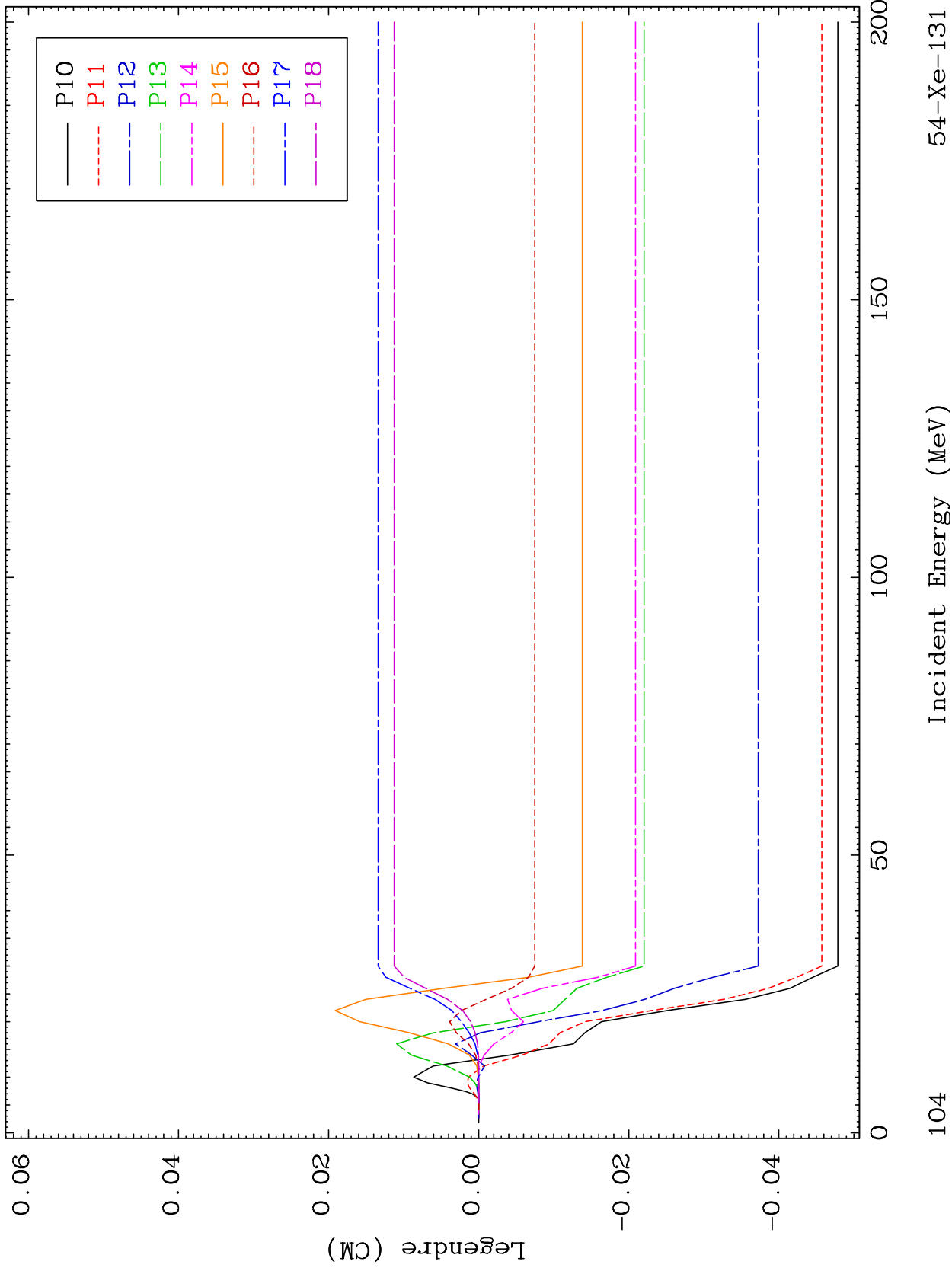
54-Xe-131



MAT 5446

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

54-Xe-131



104

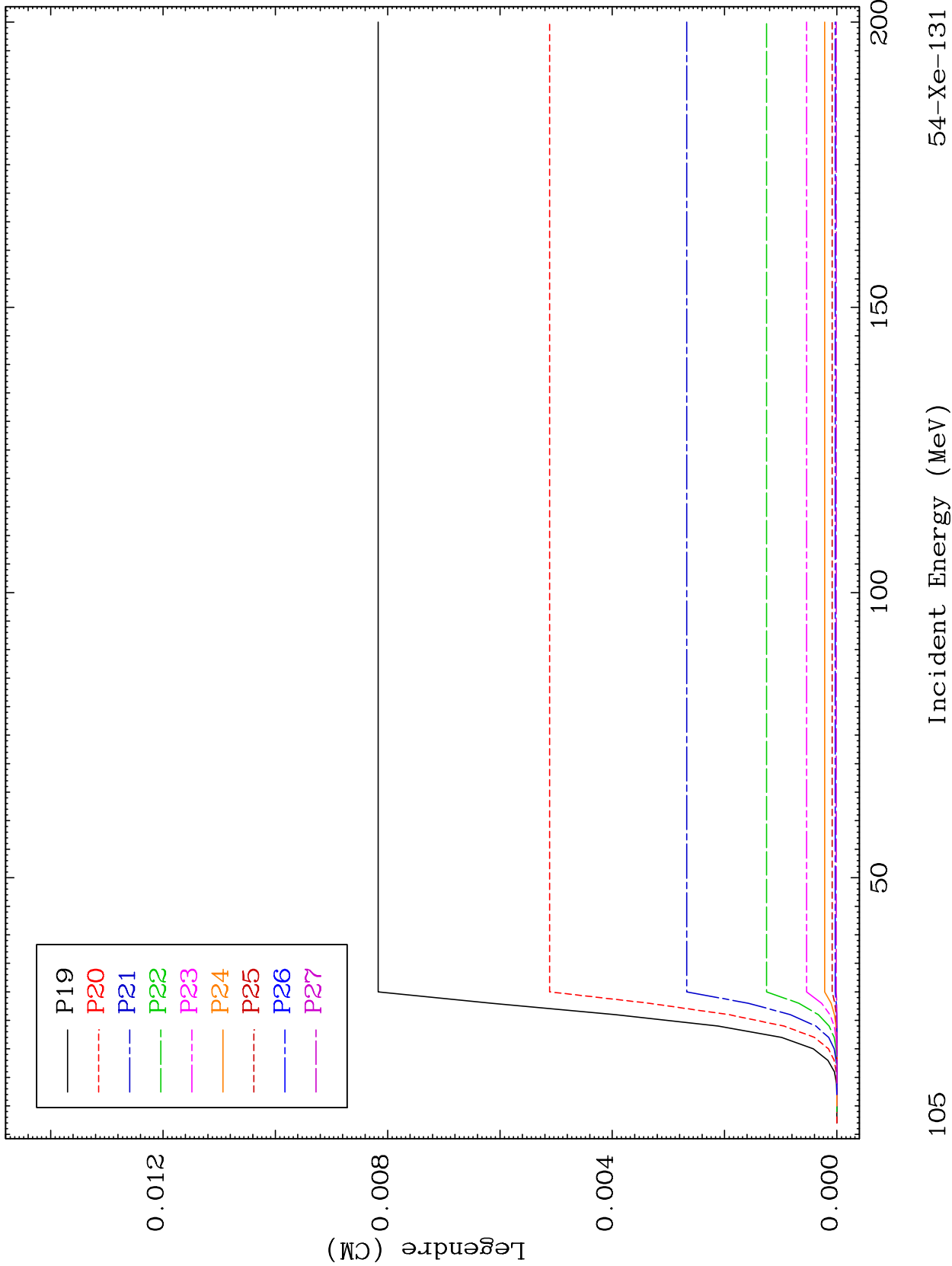
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



105

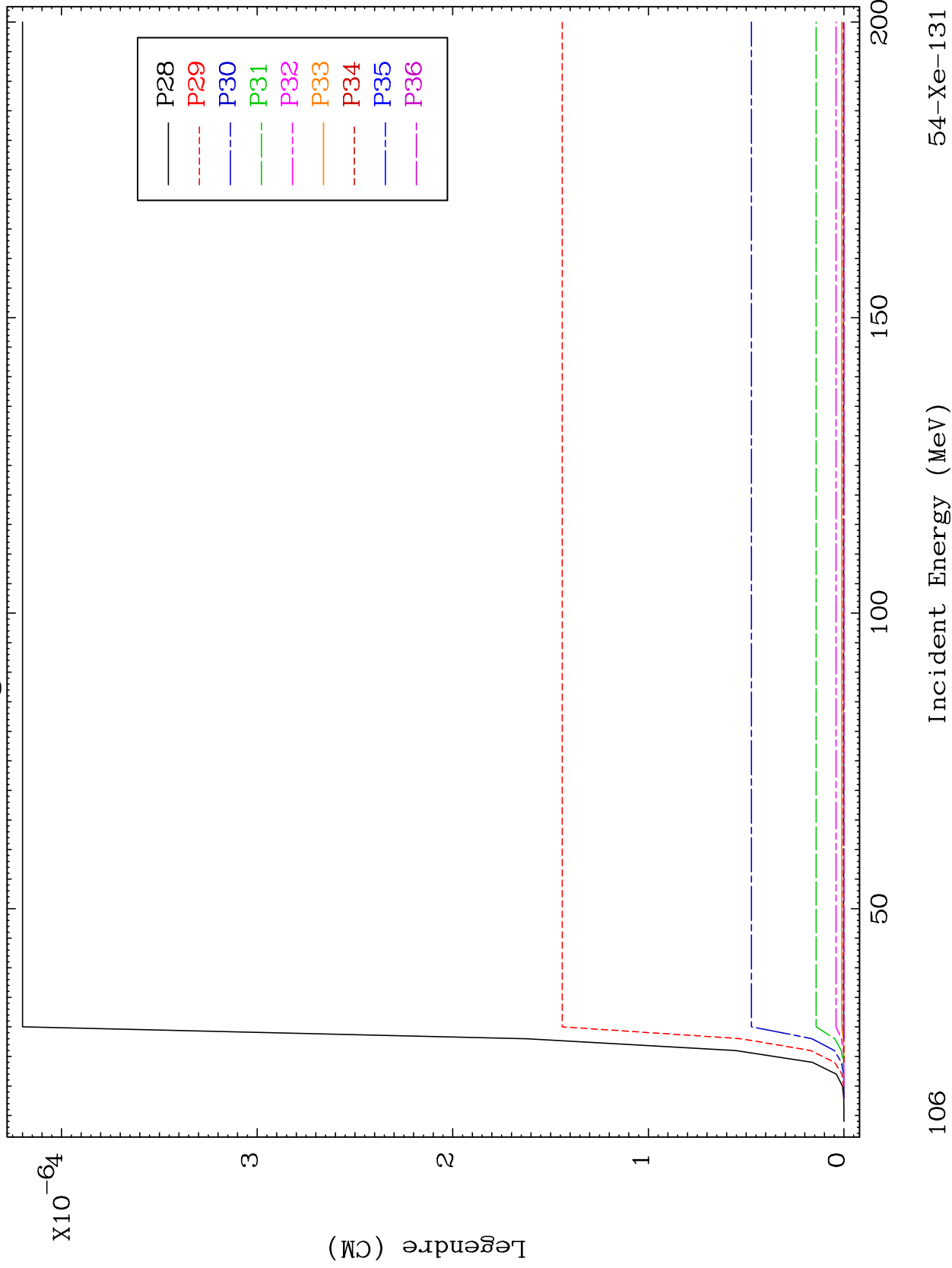
Incident Energy (MeV)

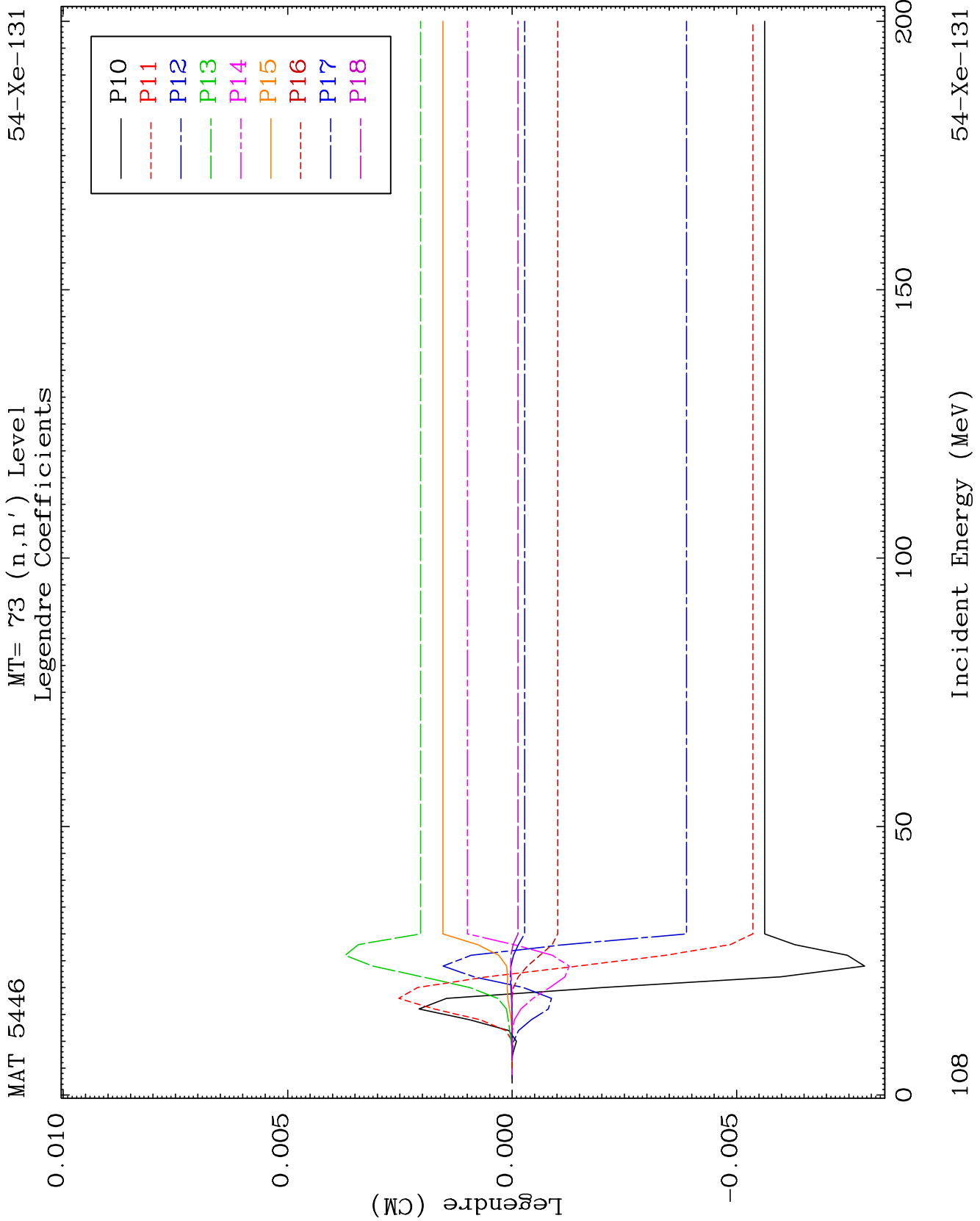
54-Xe-131

MAT 5446

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

54-Xe-131

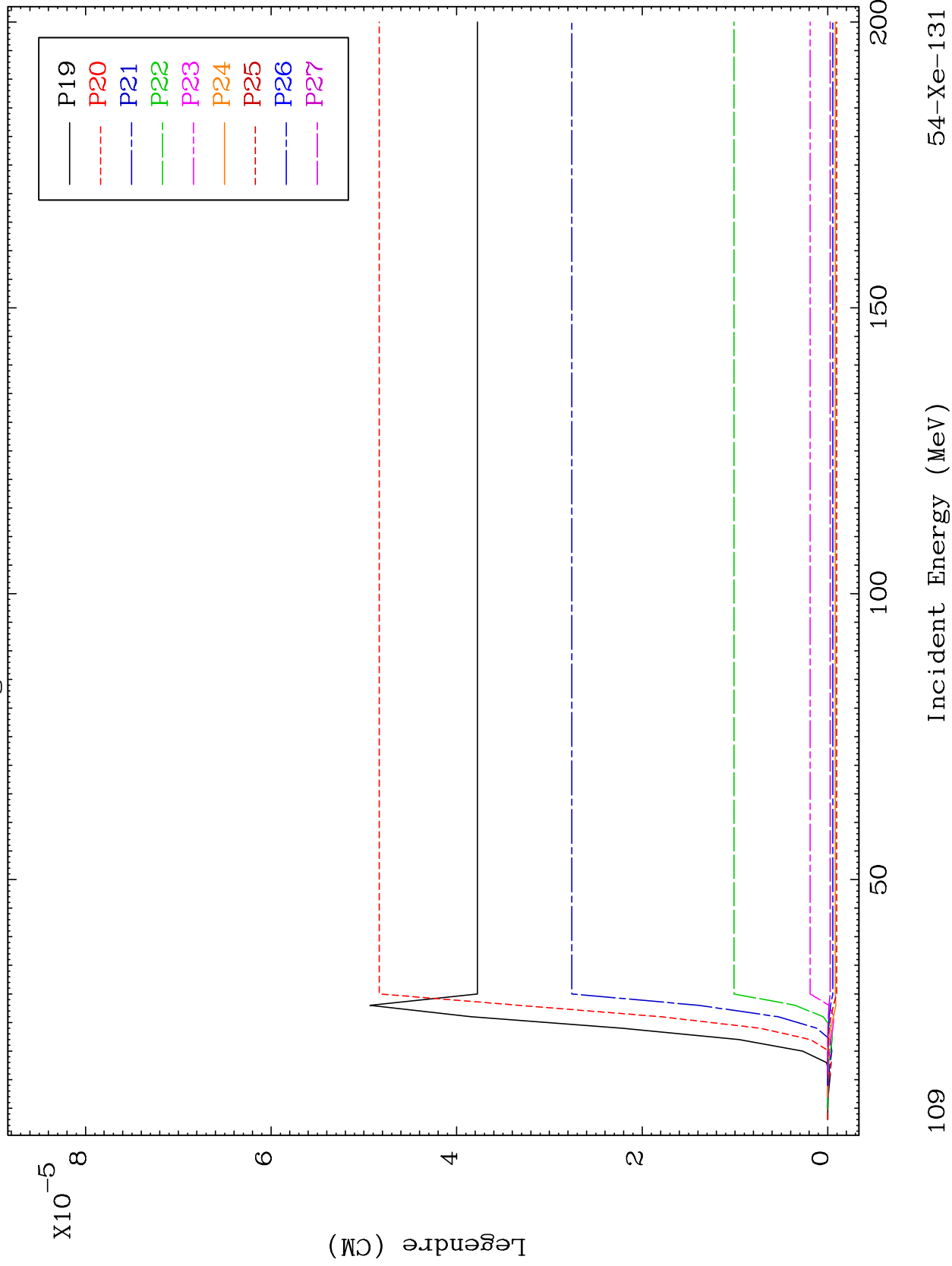




MAT 5446

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

54-Xe-131



109

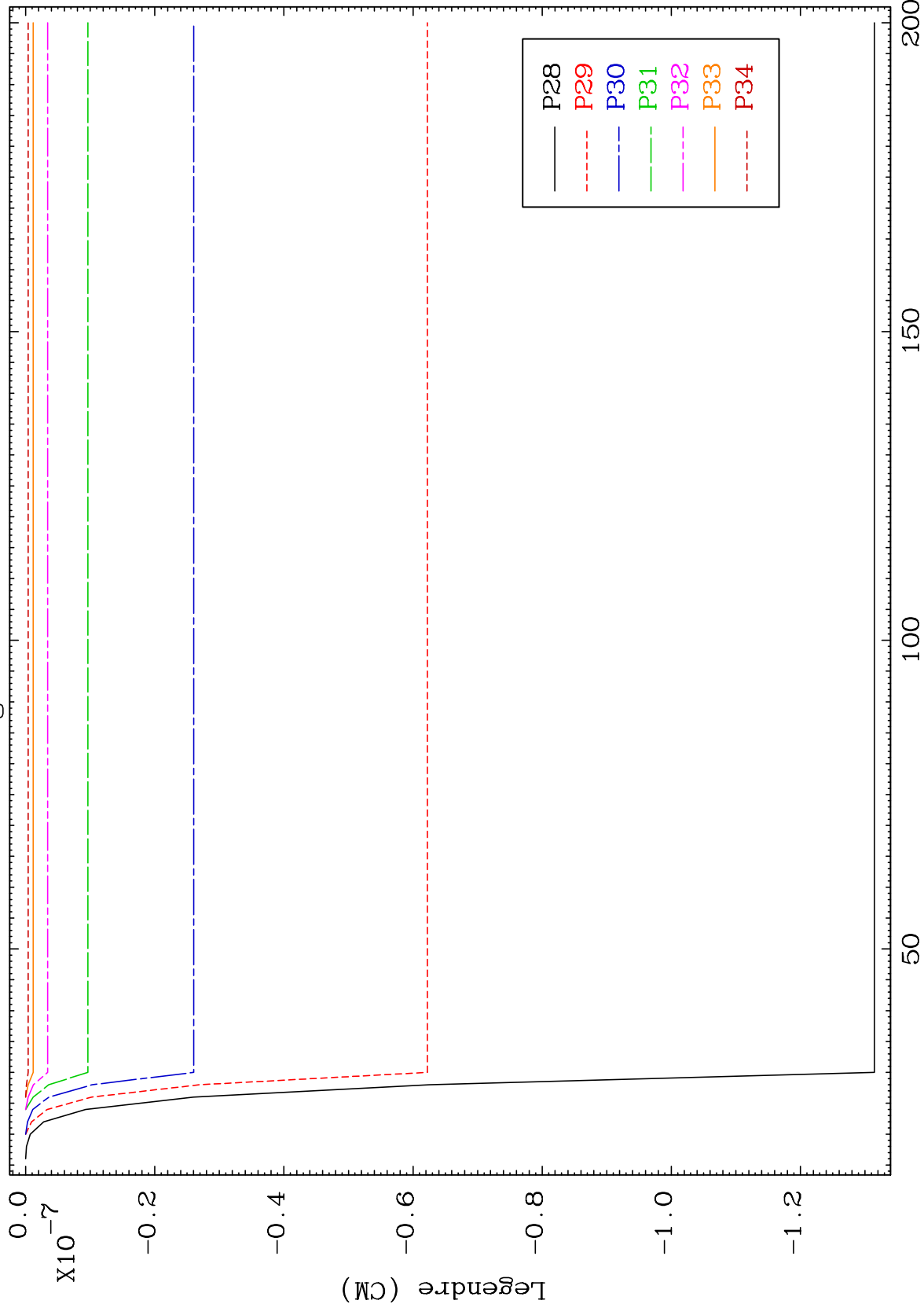
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



110

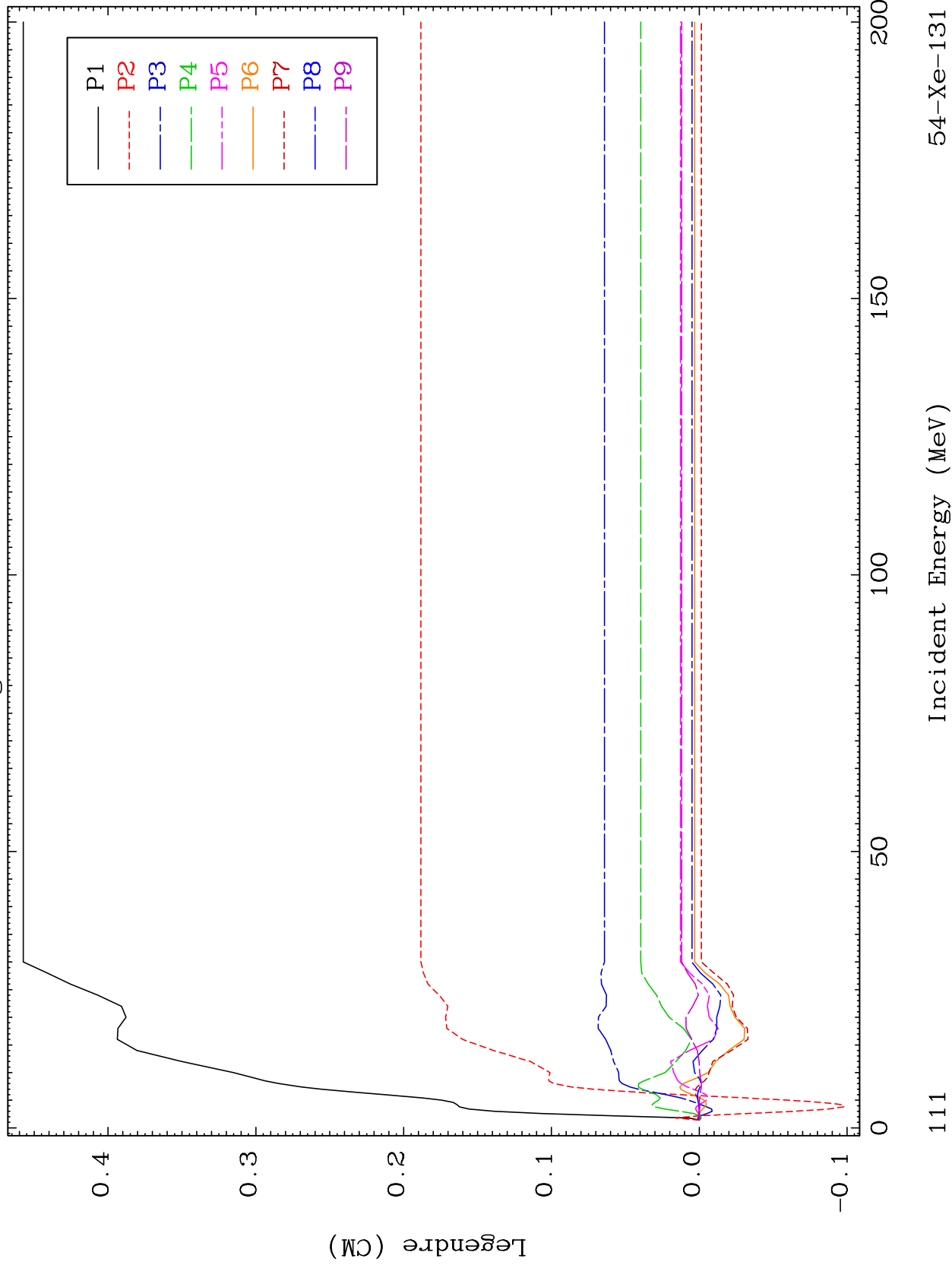
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



54-Xe-131

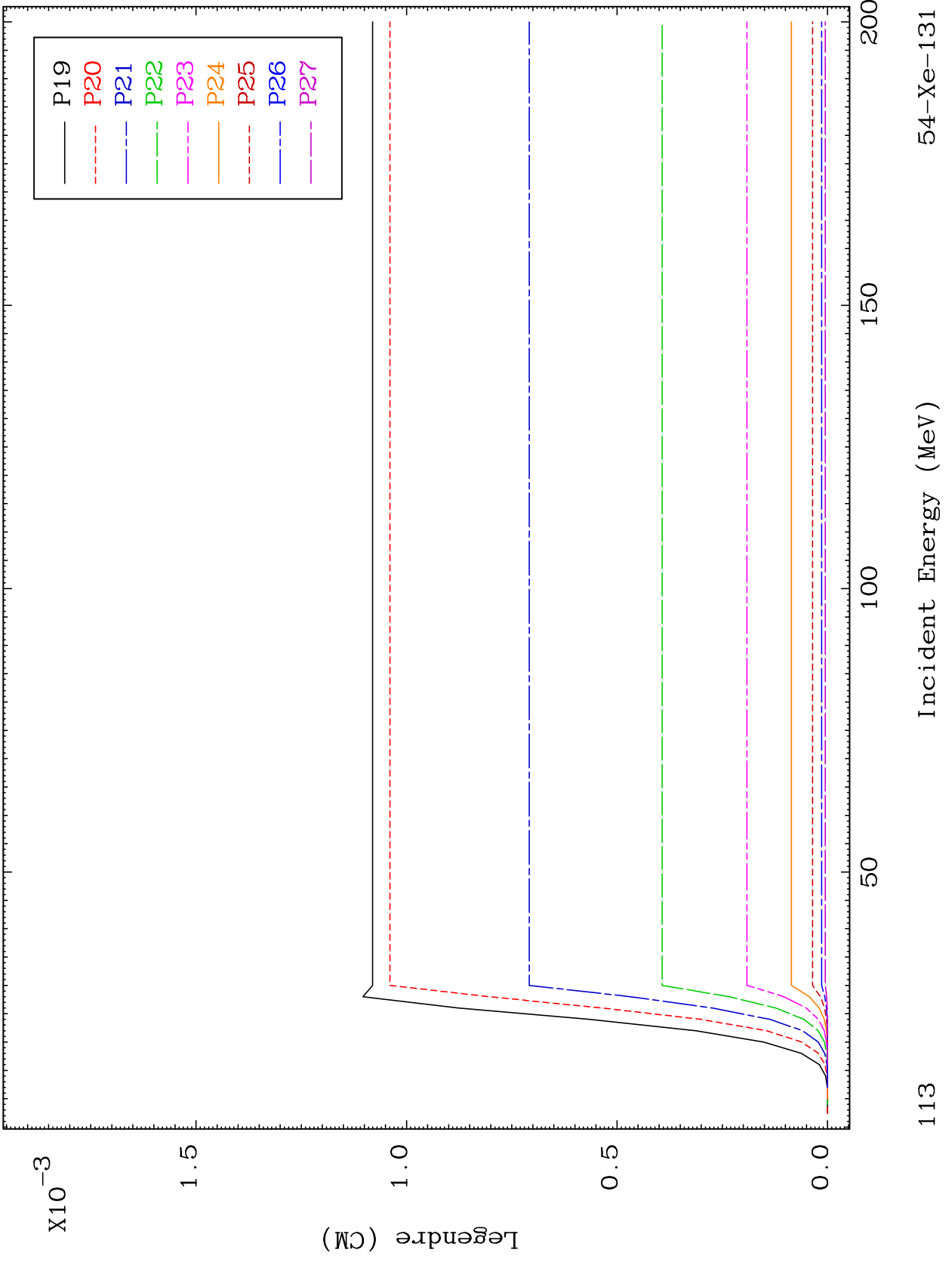
Incident Energy (MeV)

111

MAT 5446

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

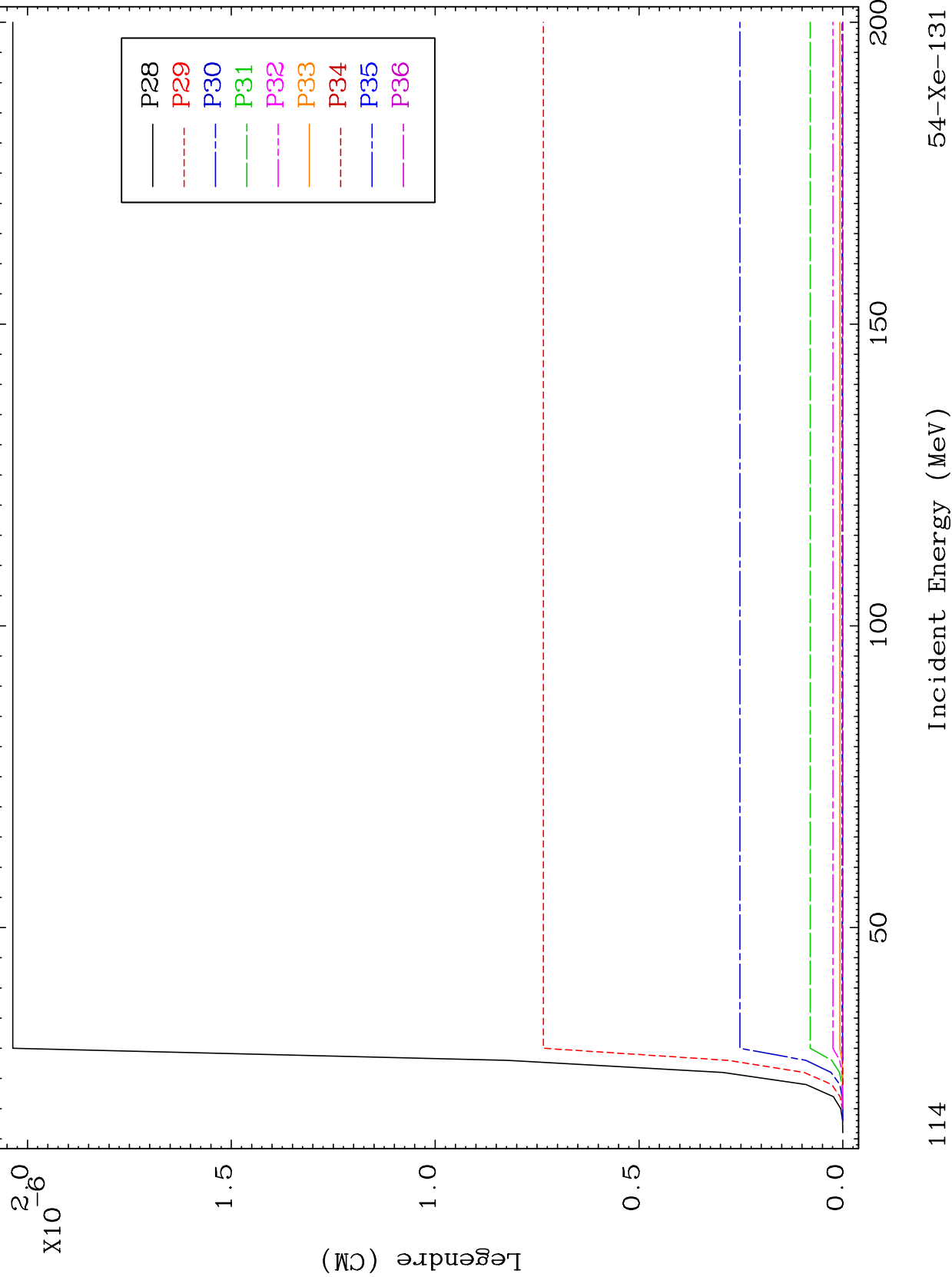
54-Xe-131



MAT 5446

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

54-Xe-131



114

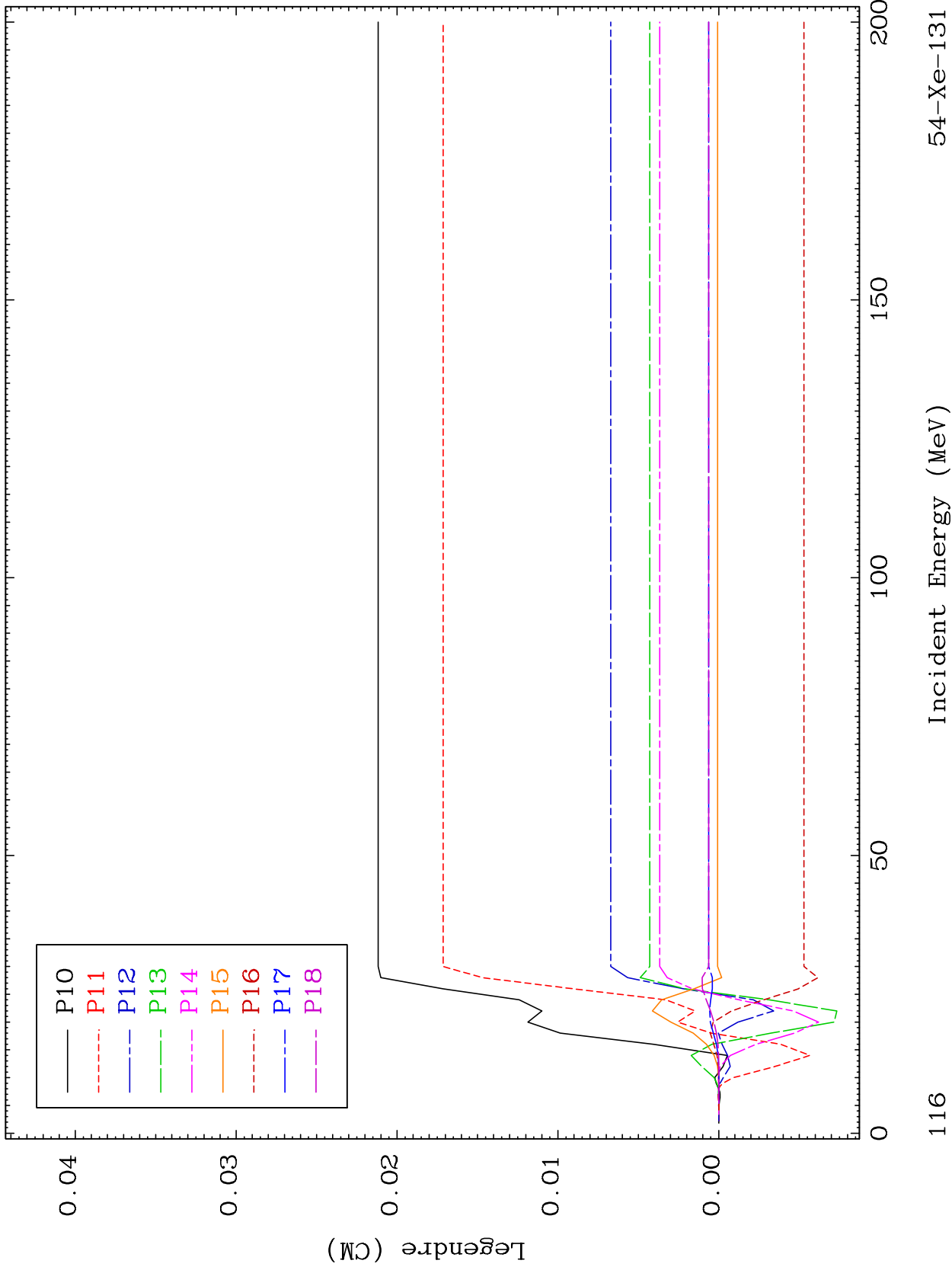
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



116

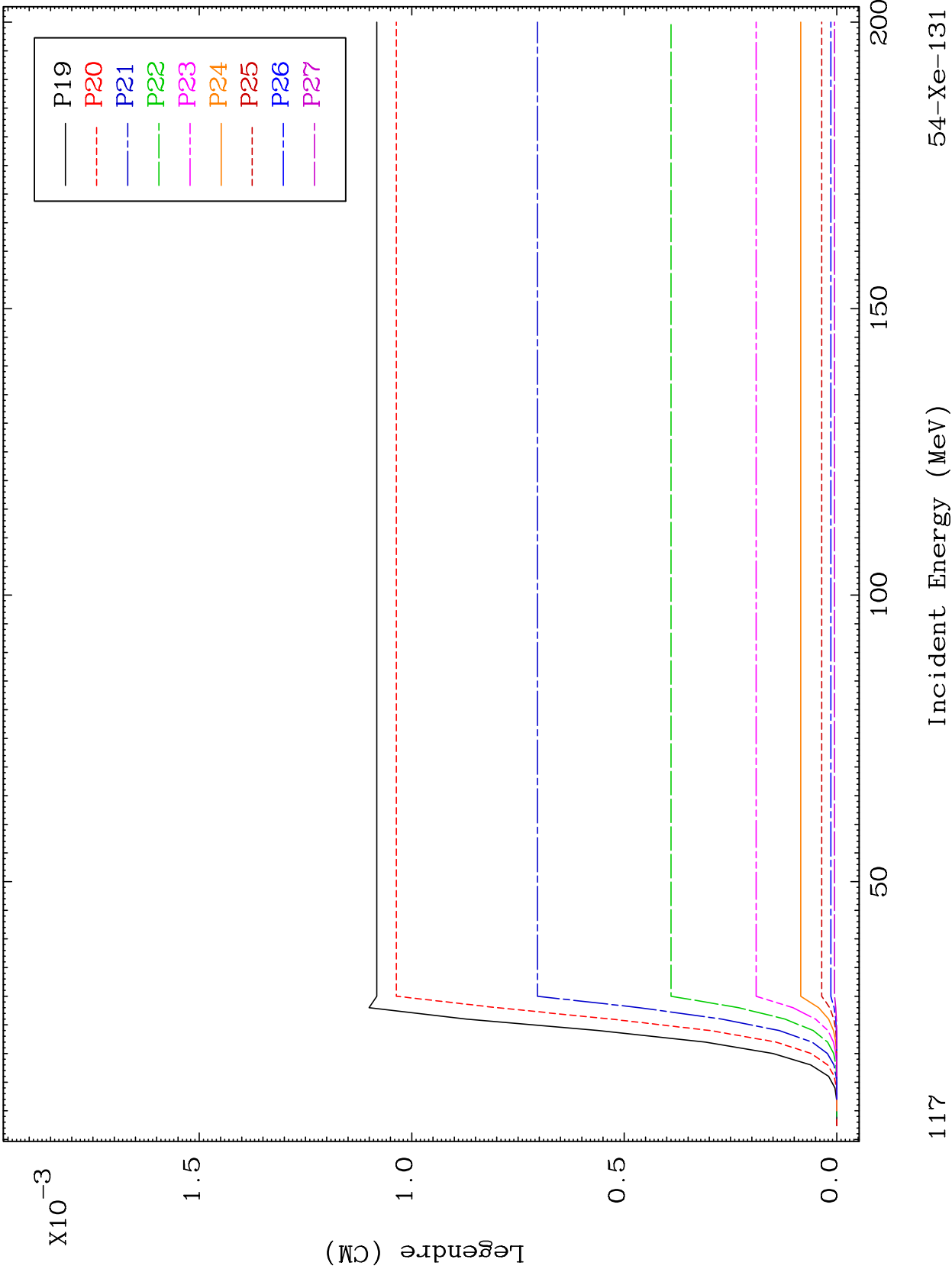
Incident Energy (MeV)

54-Xe-131

MAT 5446

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

54-Xe-131



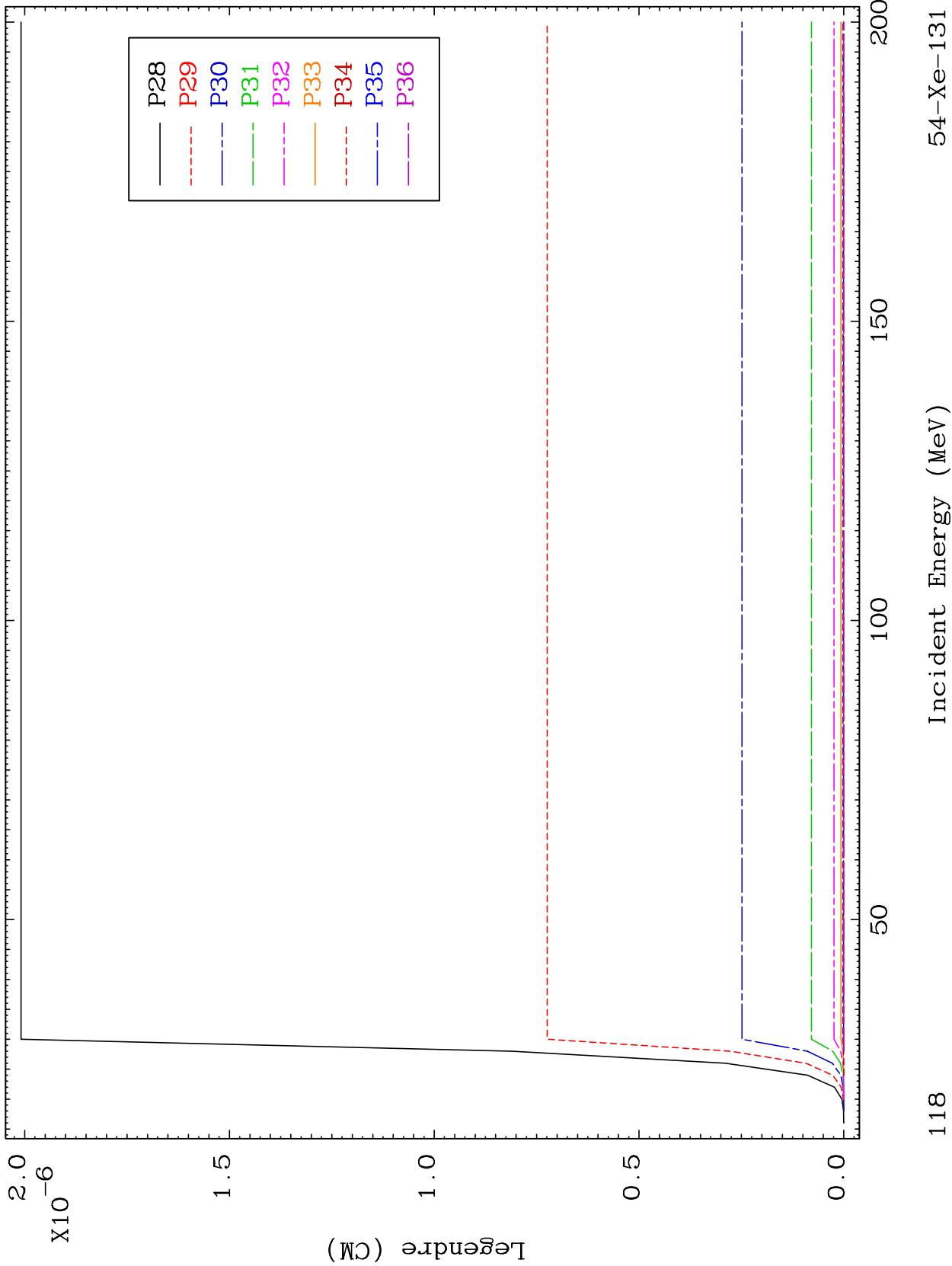
117

54-Xe-131

MAT 5446

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

54-Xe-131



118

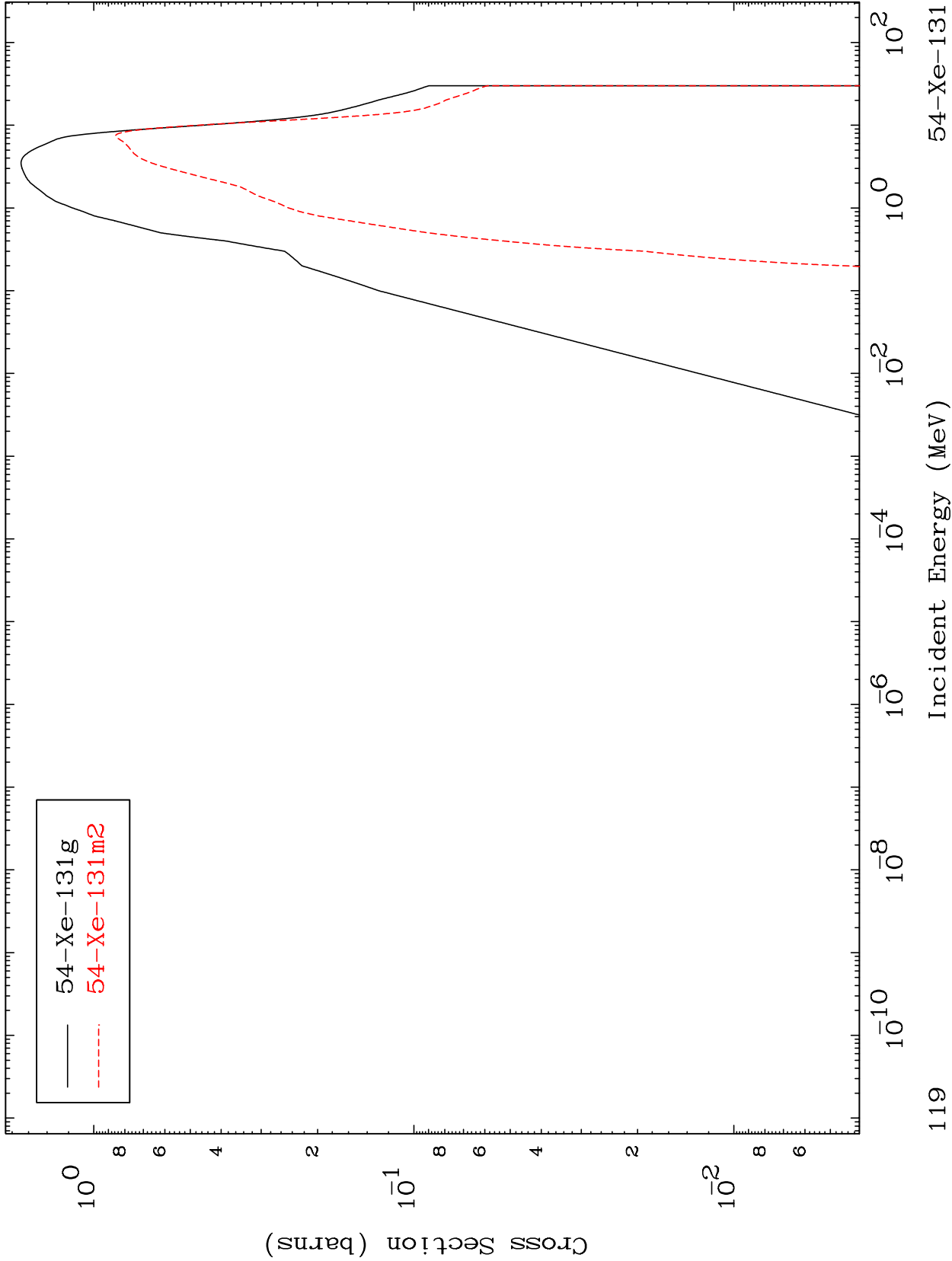
Incident Energy (MeV)

54-Xe-131

MAT 5446

54-Xe-131

Inelastic
Radionuclide Production Cross Section



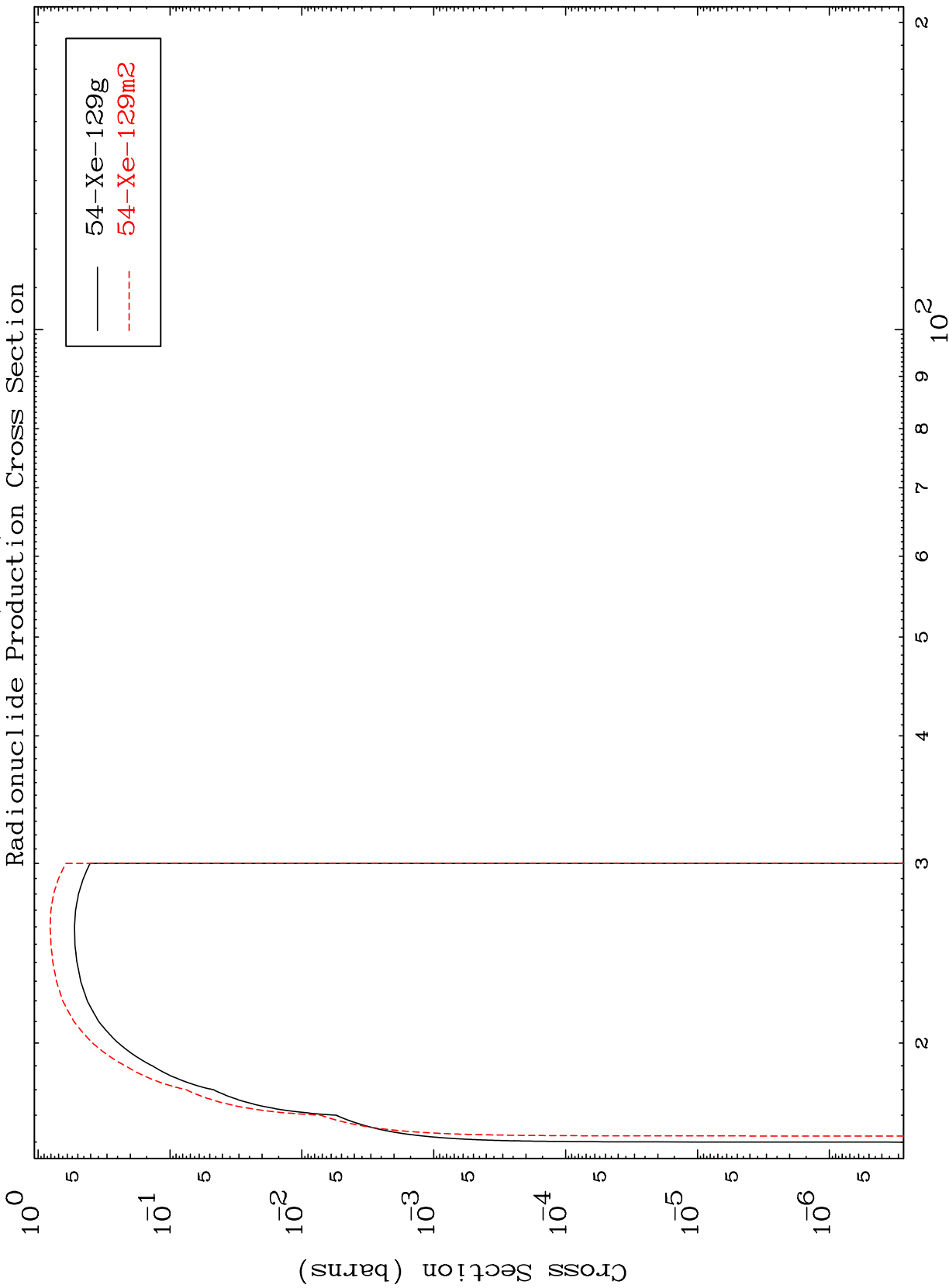
119

54-Xe-131

MAT 5446

54-Xe-131

(n,3n)
Radionuclide Production Cross Section



120

Incident Energy (MeV)

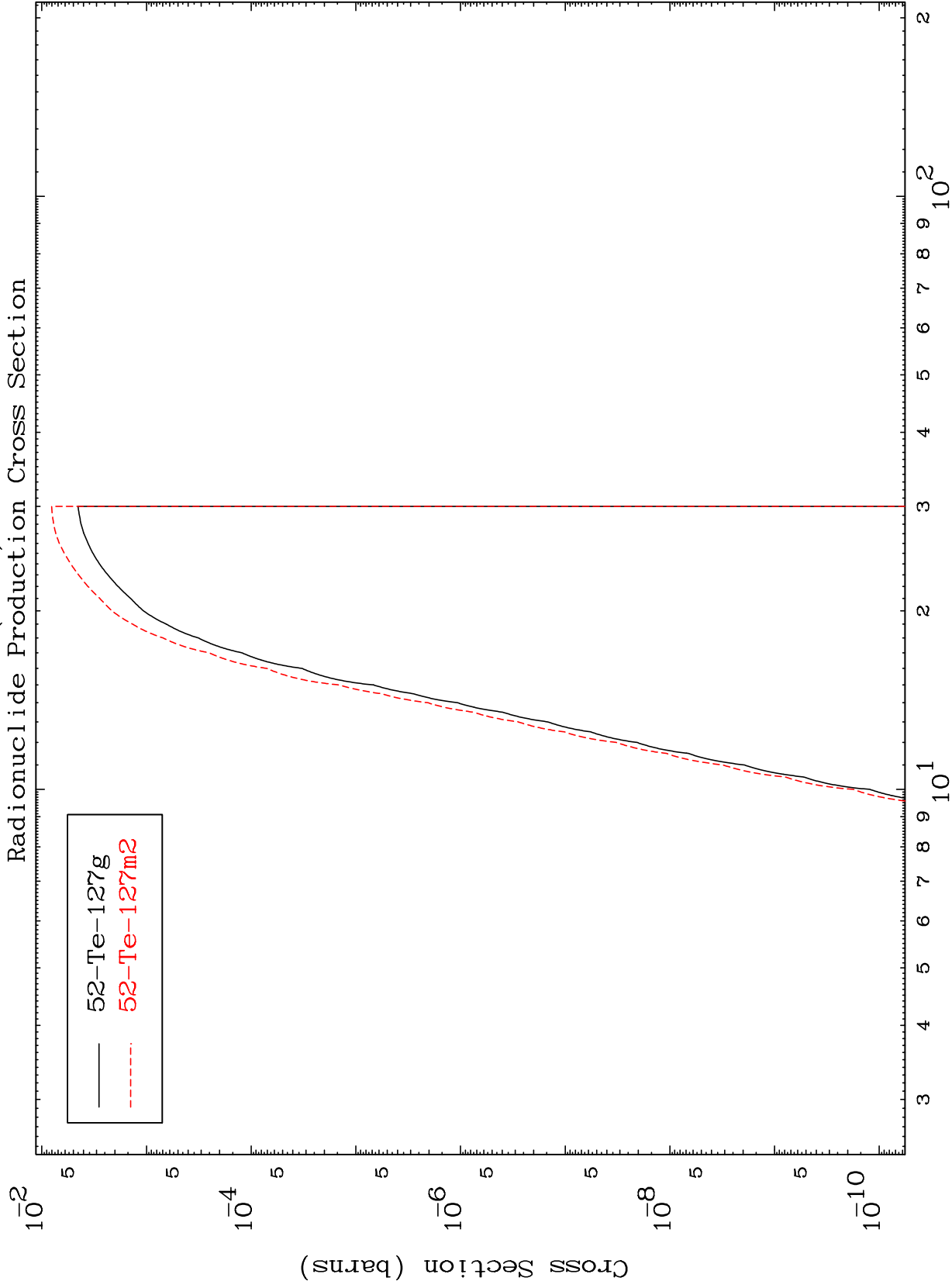
54-Xe-131

MAT 5446

54-Xe-131

(n,n') α

Radionuclide Production Cross Section

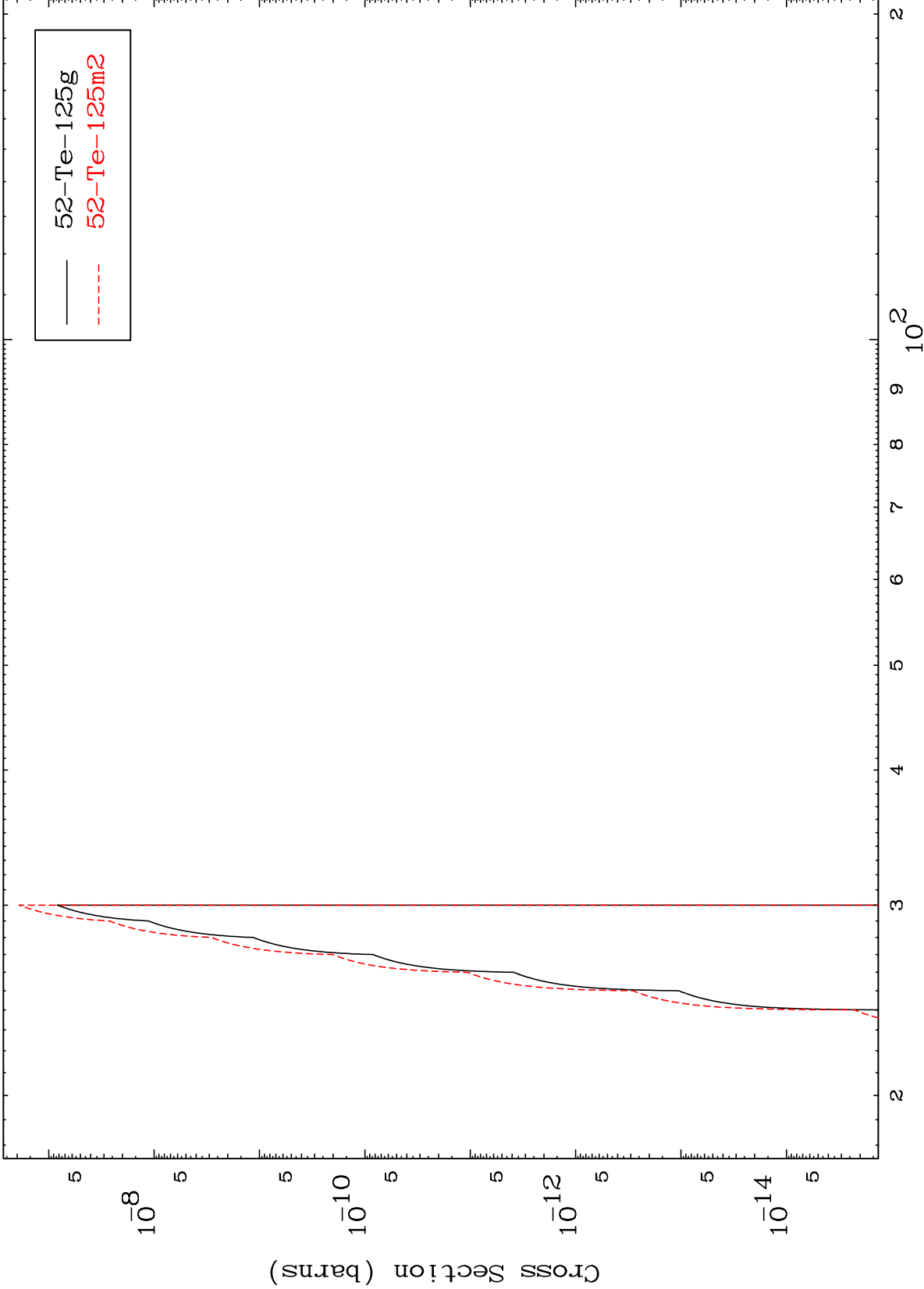


121

Incident Energy (MeV)

54-Xe-131

Radionuclide Production Cross Section



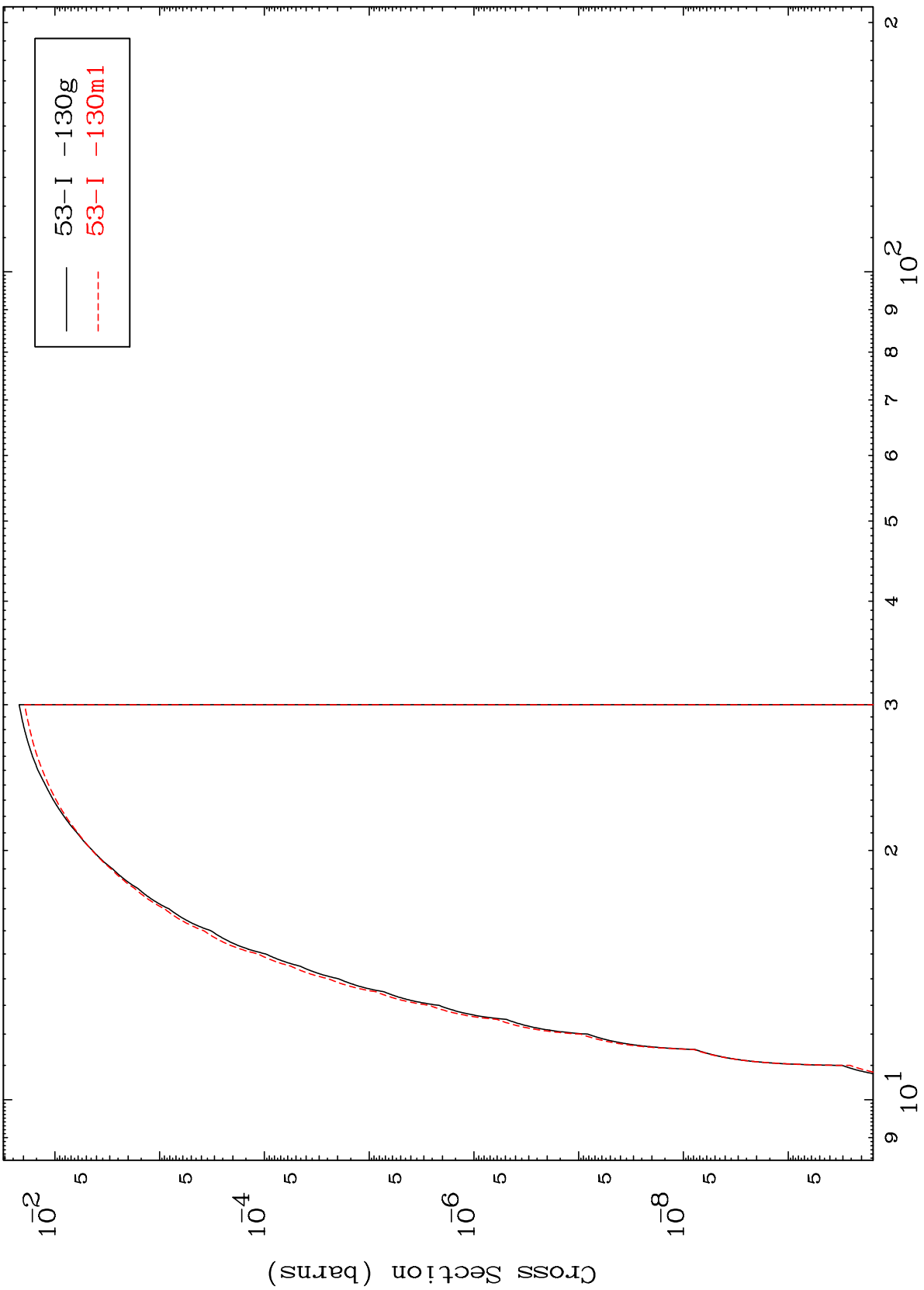
52-Te-125g
52-Te-125m2

MAT 5446

(n,n') p

54-Xe-131

Radionuclide Production Cross Section



53-I -130g
53-I -130m1

123

Incident Energy (MeV)

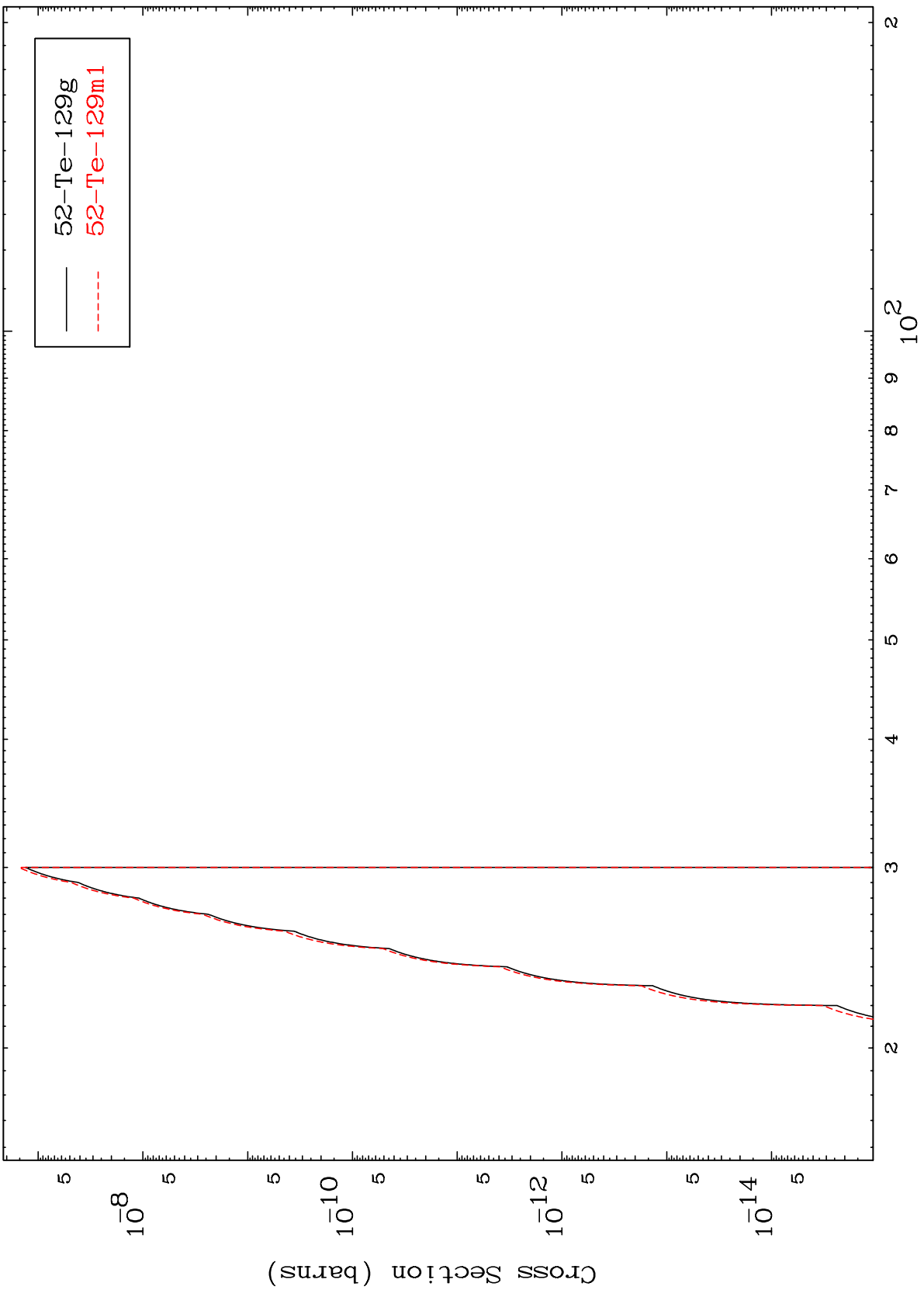
54-Xe-131

MAT 5446

(n,2n) p

54-Xe-131

Radionuclide Production Cross Section

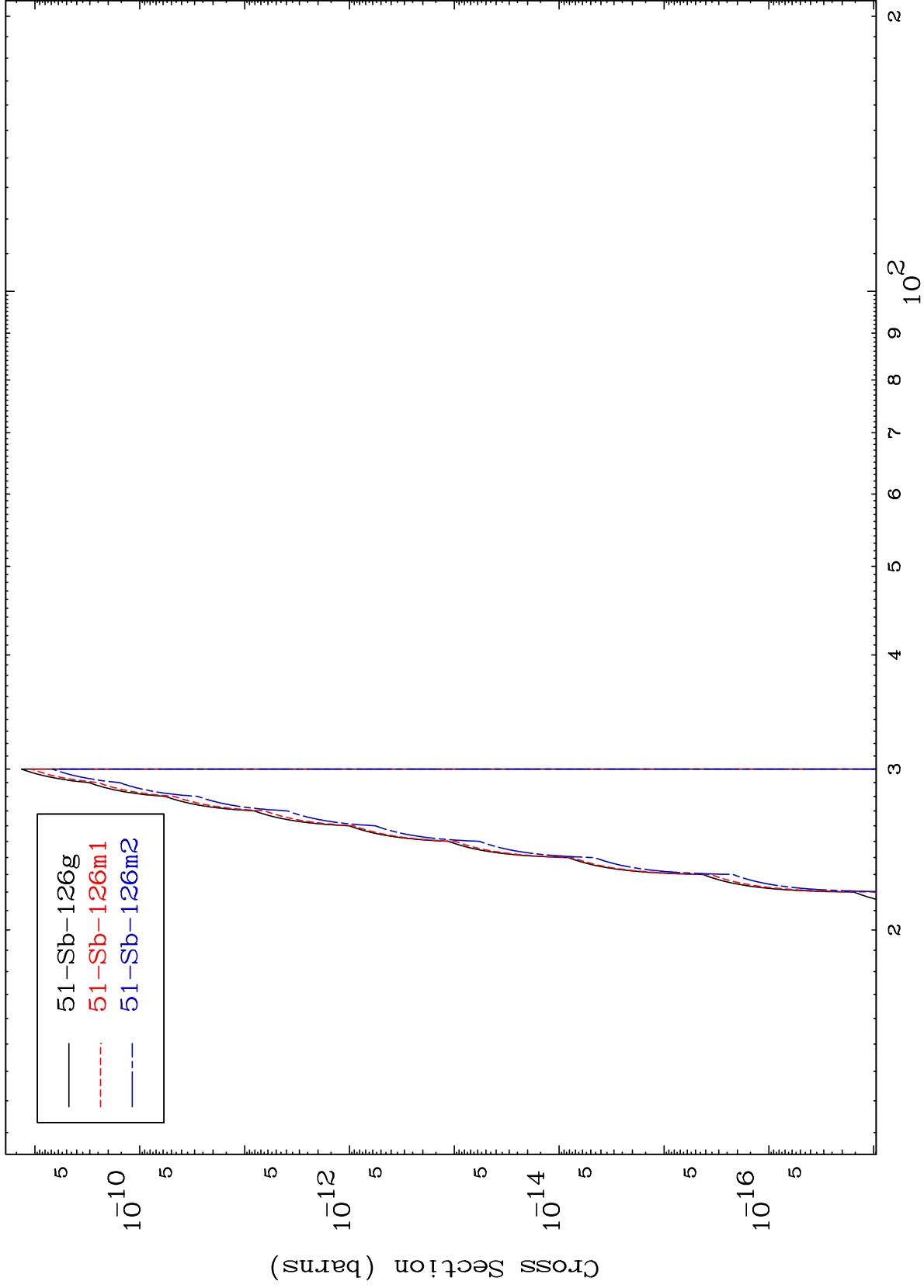


124

Incident Energy (MeV)

54-Xe-131

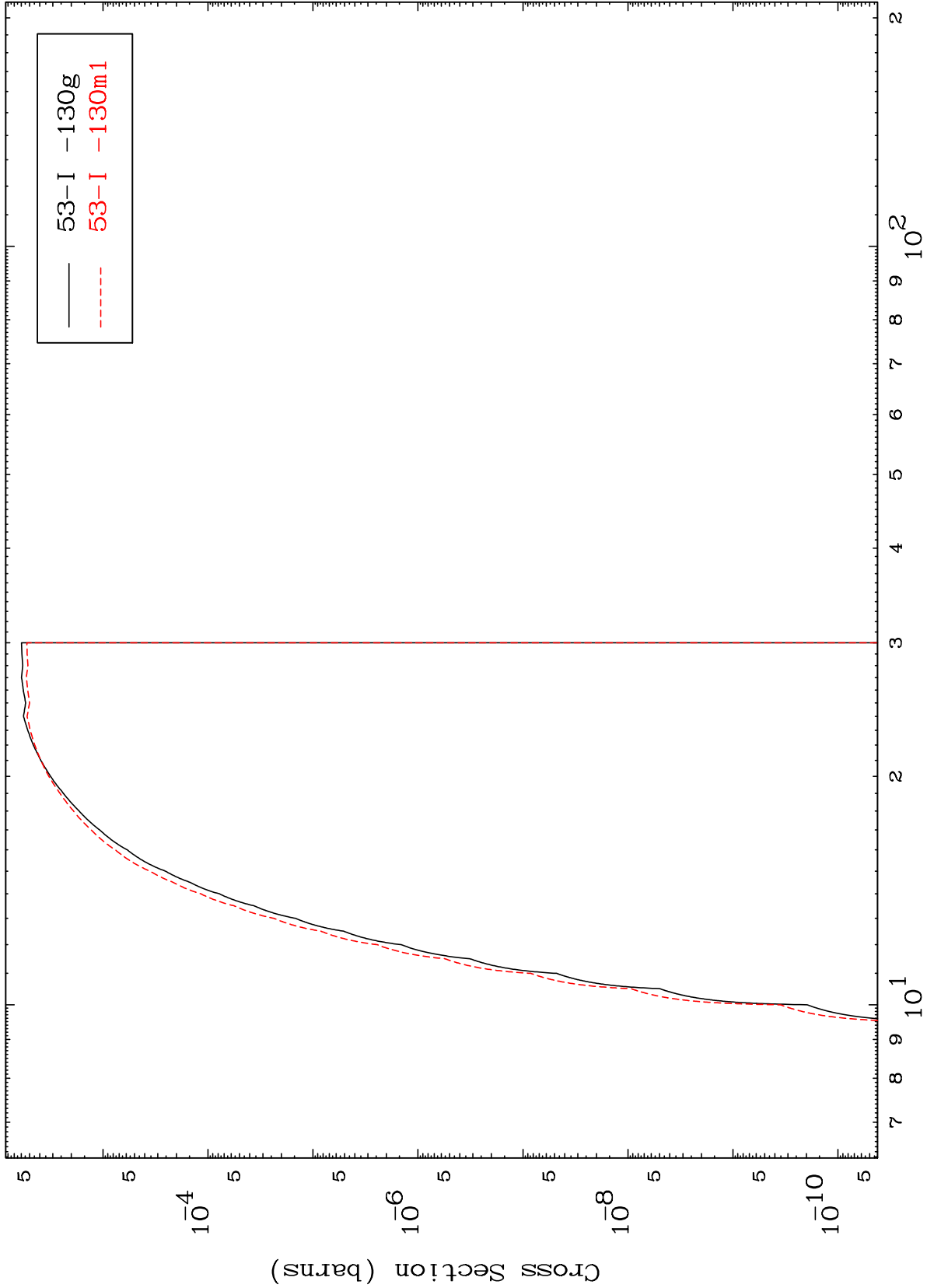
Radionuclide Production Cross Section



MAT 5446

54-Xe-131

(n,d)
Radionuclide Production Cross Section



126

Incident Energy (MeV)

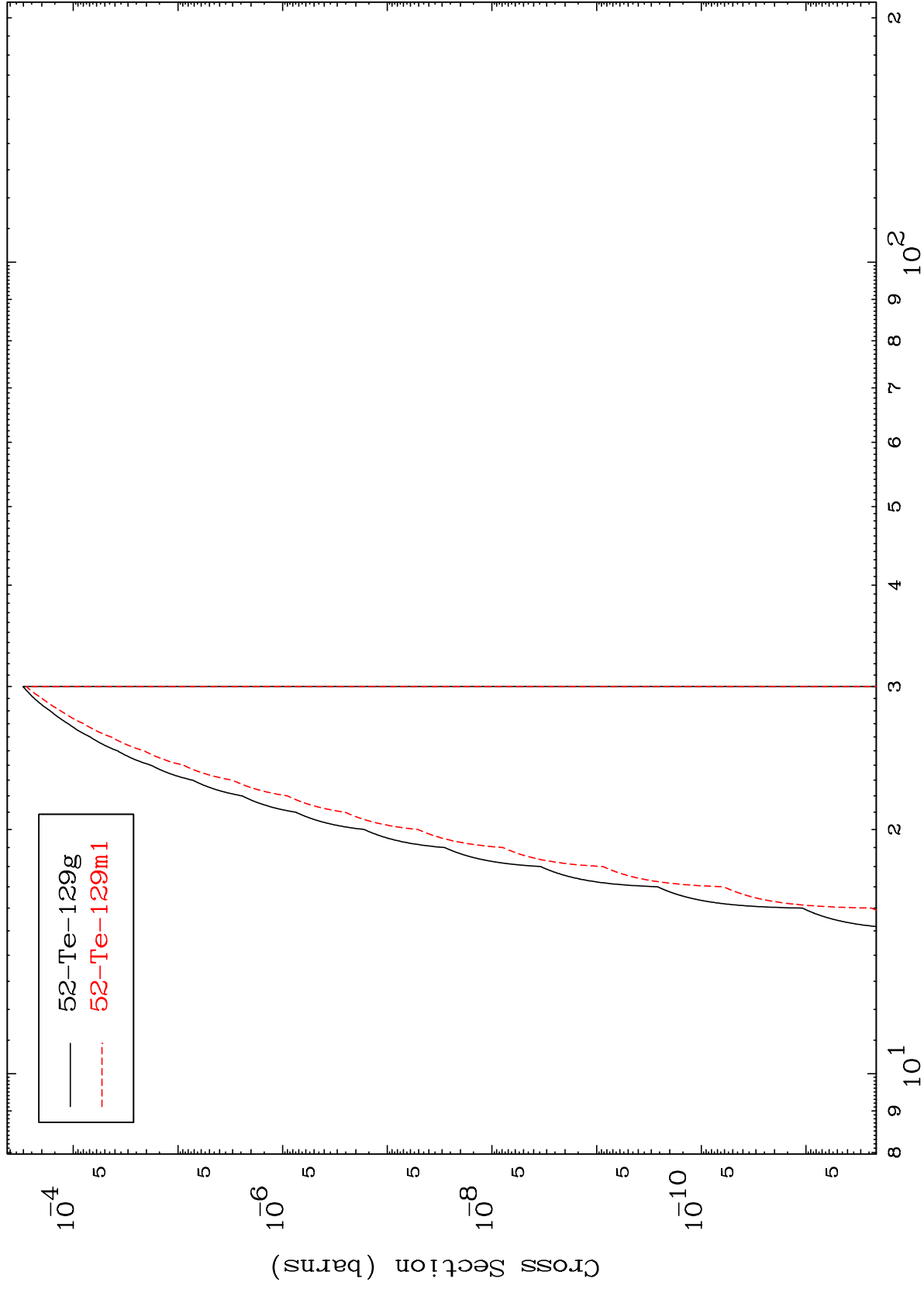
54-Xe-131

MAT 5446

(n,He-3)

54-Xe-131

Radionuclide Production Cross Section



127

Incident Energy (MeV)

54-Xe-131

Radionuclide Production Cross Section

