

Program EVALPLOT
(Version 2017-1)

by

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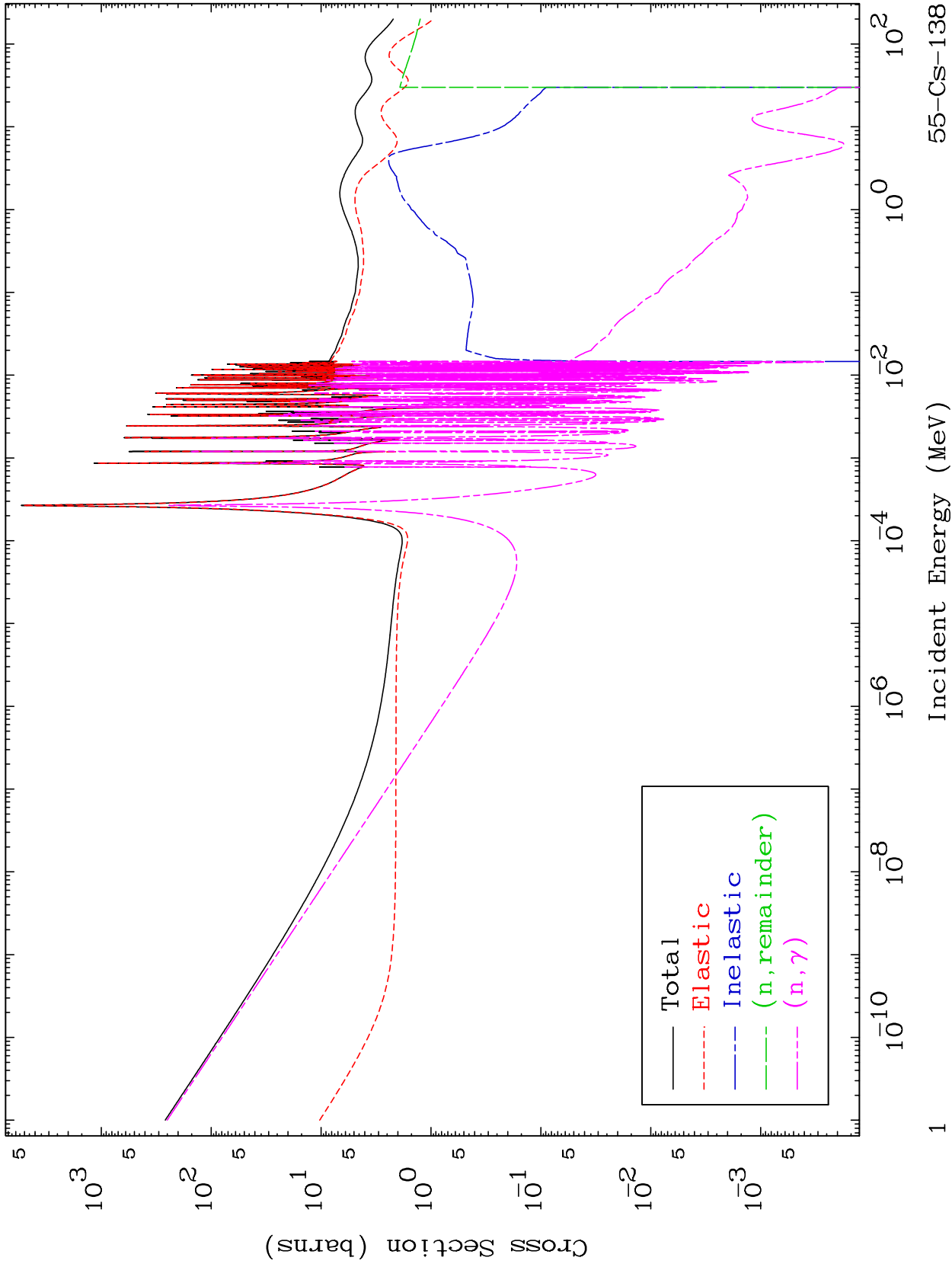
Press Mouse Button to Start

MAT 5540

Major

293 Kelvin Cross Sections

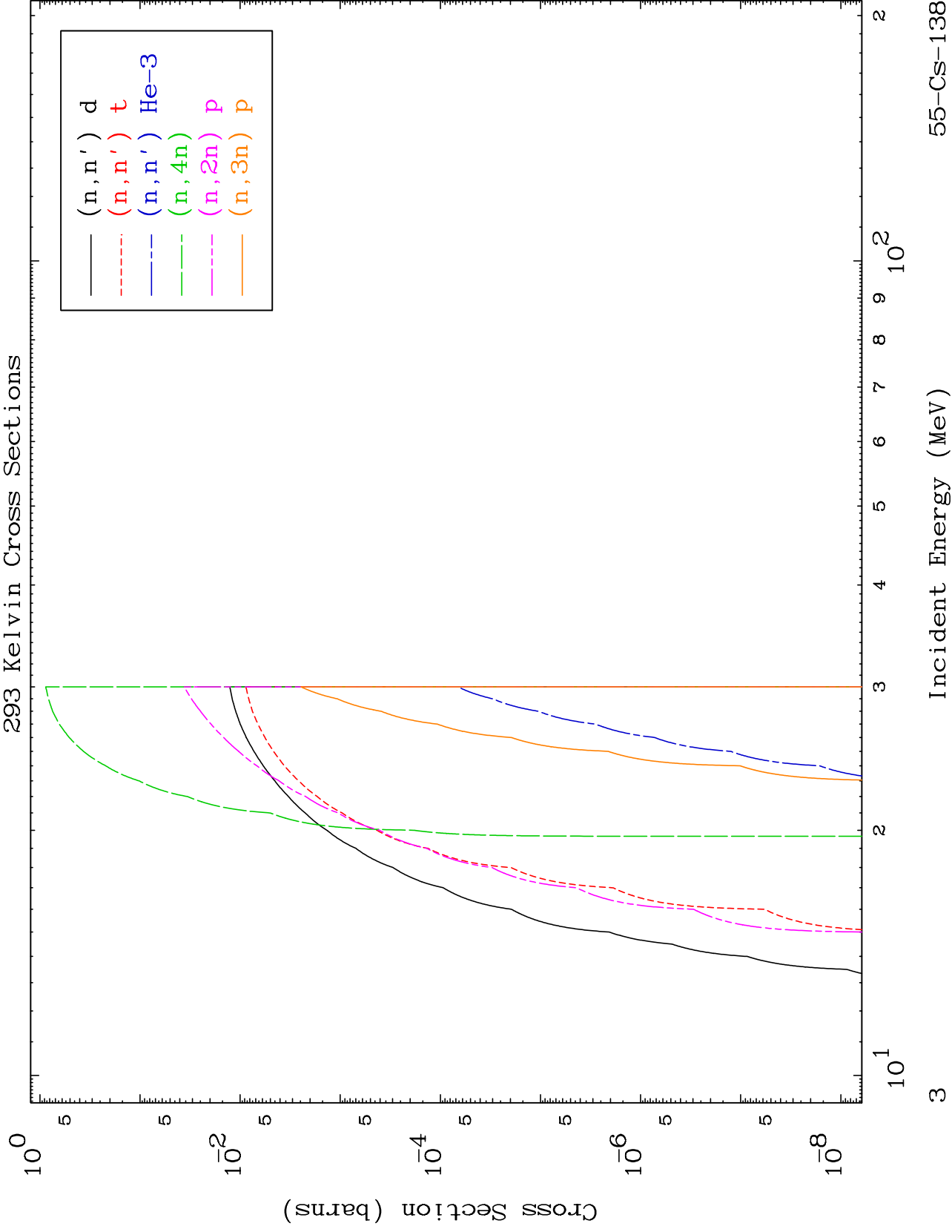
55-Cs-138



MAT 5540

Neutron Production
293 Kelvin Cross Sections

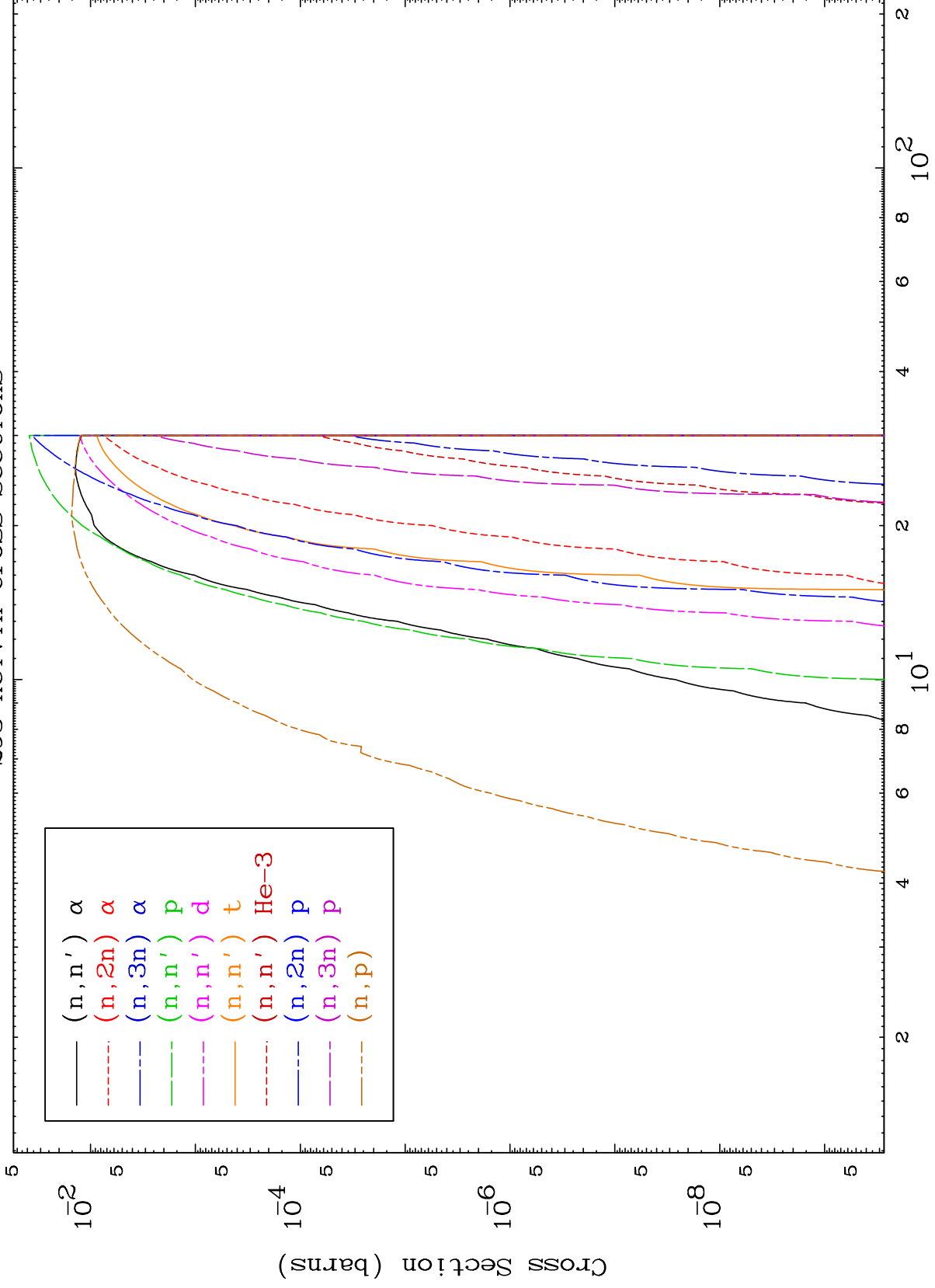
55-Cs-138



55-Cs-138

Incident Energy (MeV)

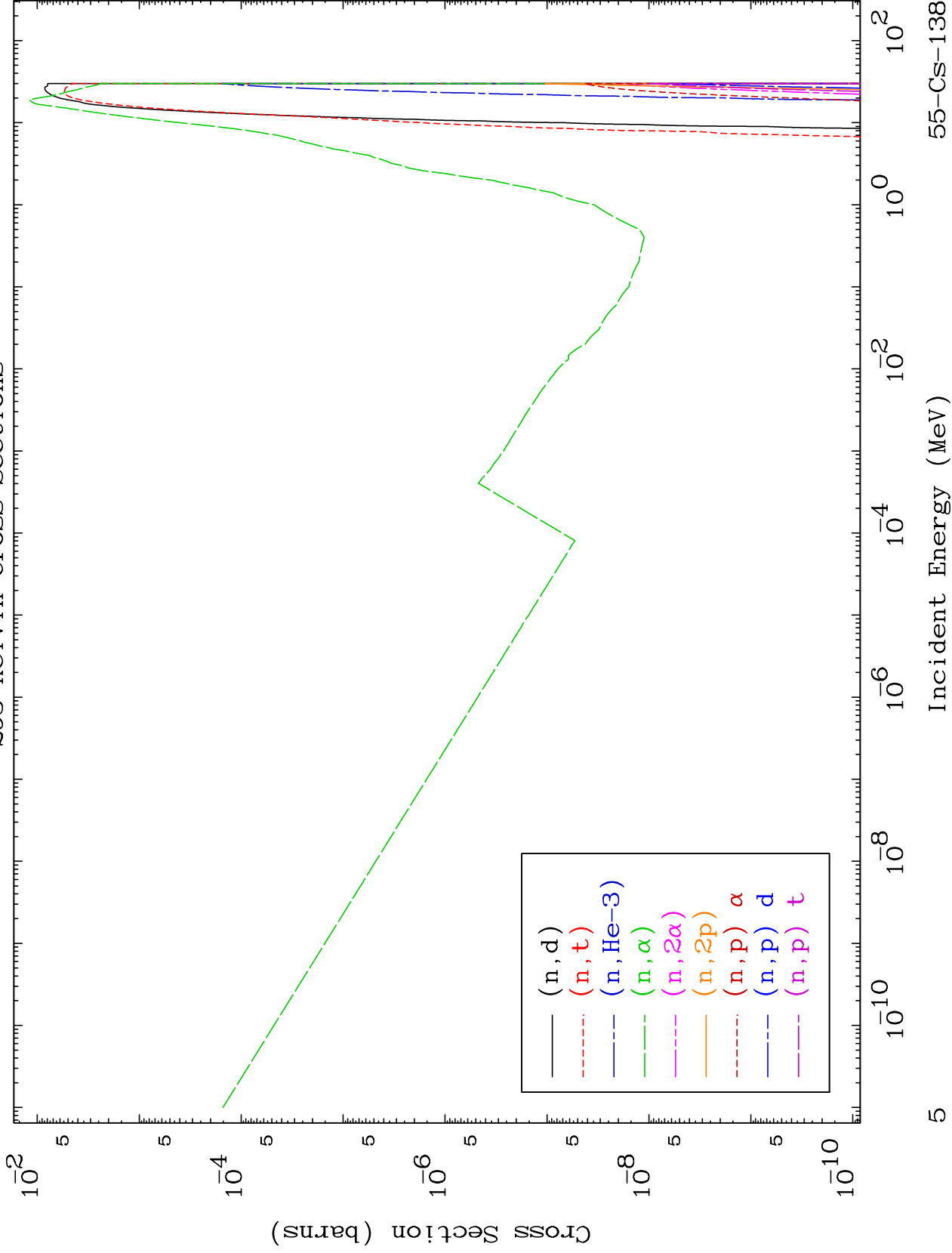
3



MAT 5540

Charged Particle
293 Kelvin Cross Sections

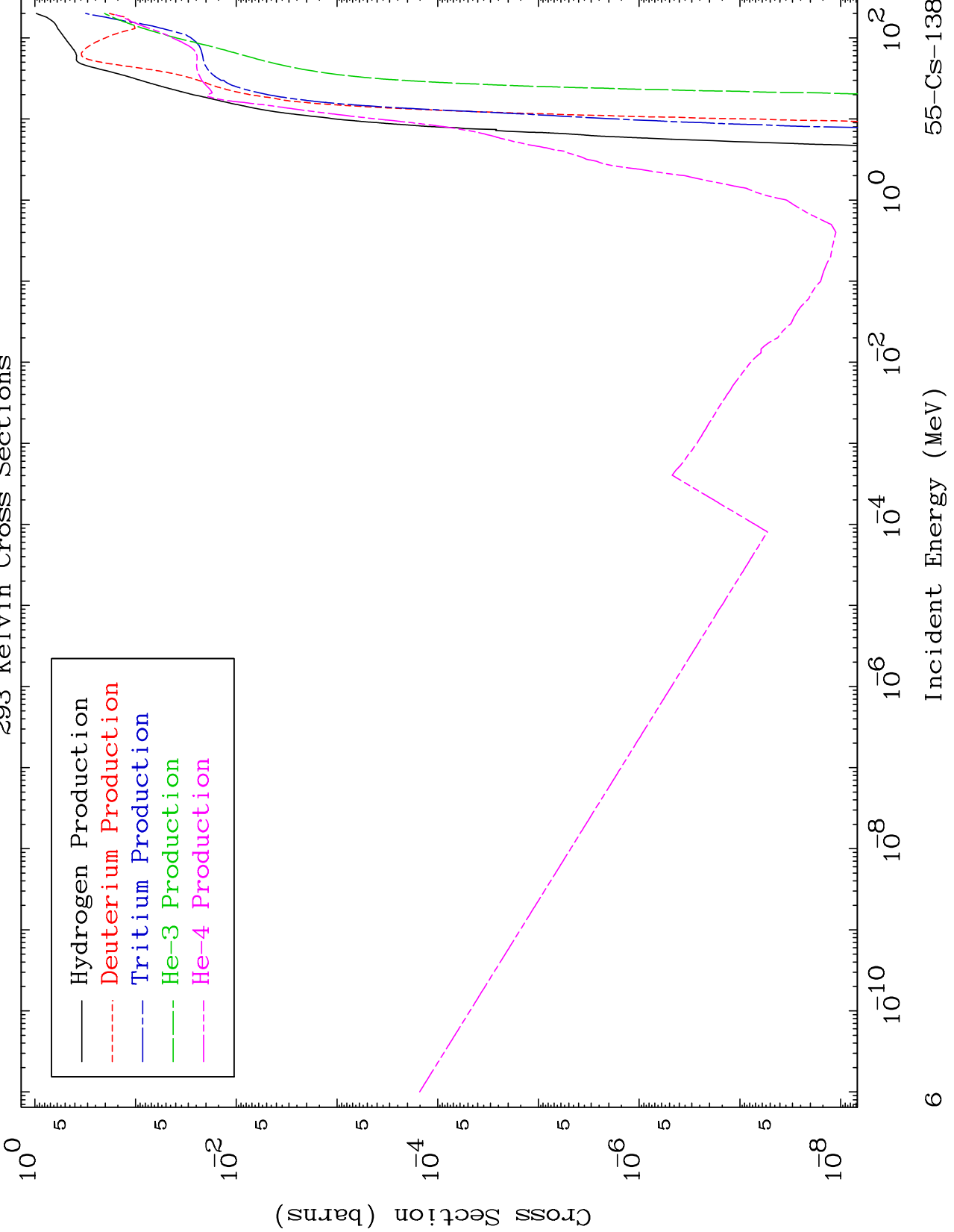
55-Cs-138



MAT 5540

Particle Production
293 Kelvin Cross Sections

55-Cs-138

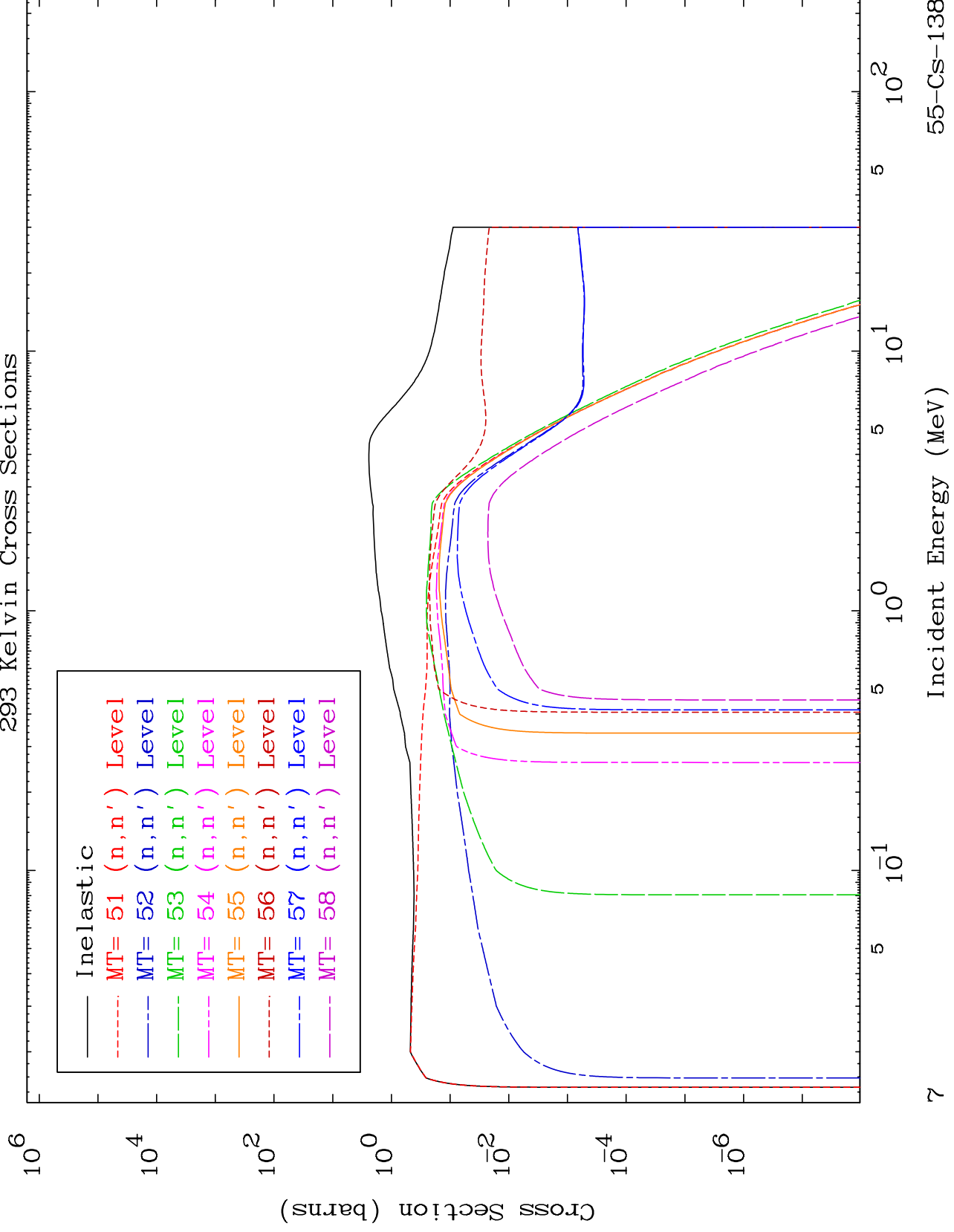


Legend:
— Hydrogen Production
- - - Deuterium Production
- . - Tritium Production
- - - He-3 Production
- - - He-4 Production

MAT 5540

(n,n') Level
293 Kelvin Cross Sections

55-Cs-138

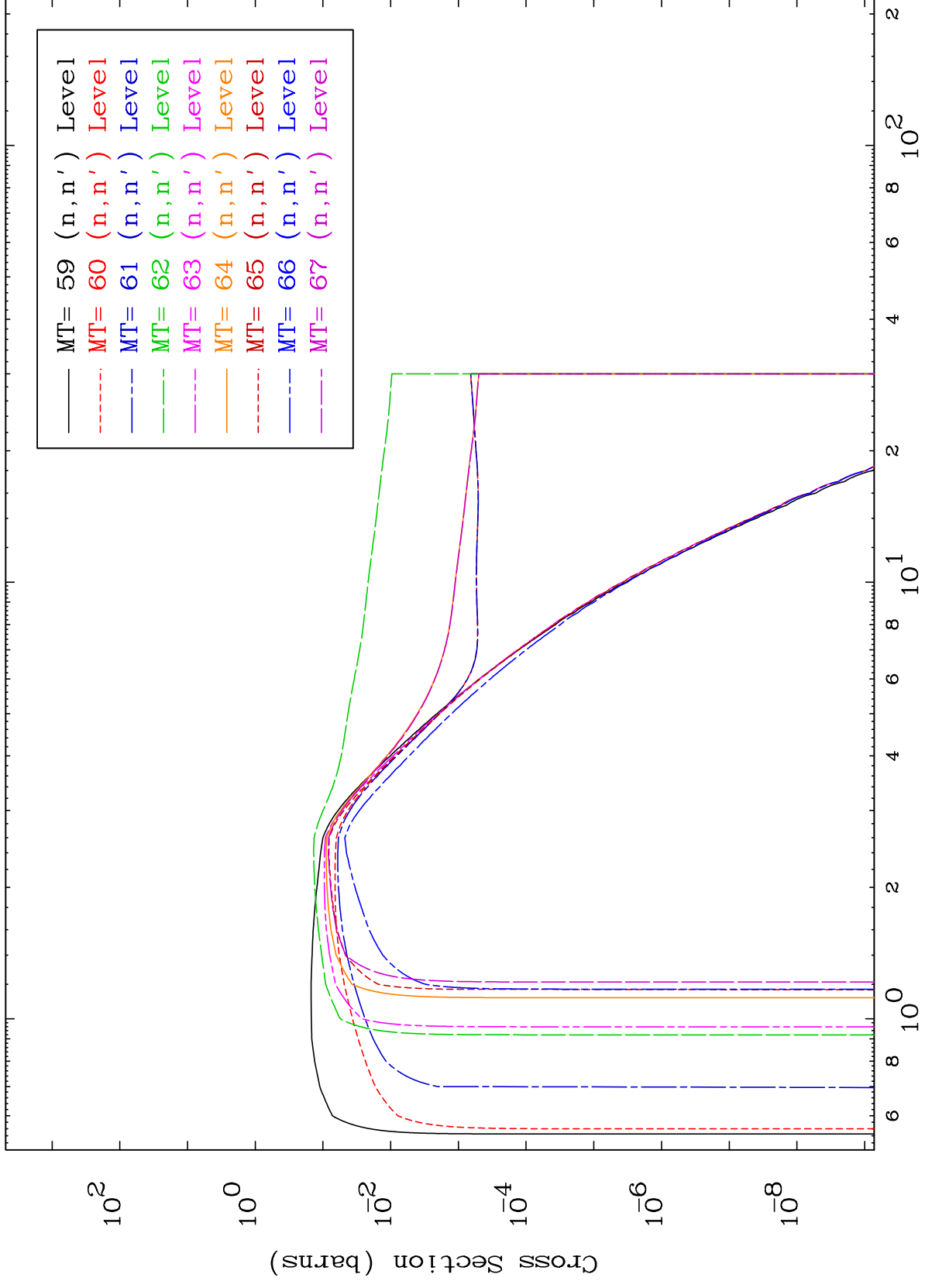


MAT 5540

(n,n') Level

55-Cs-138

293 Kelvin Cross Sections

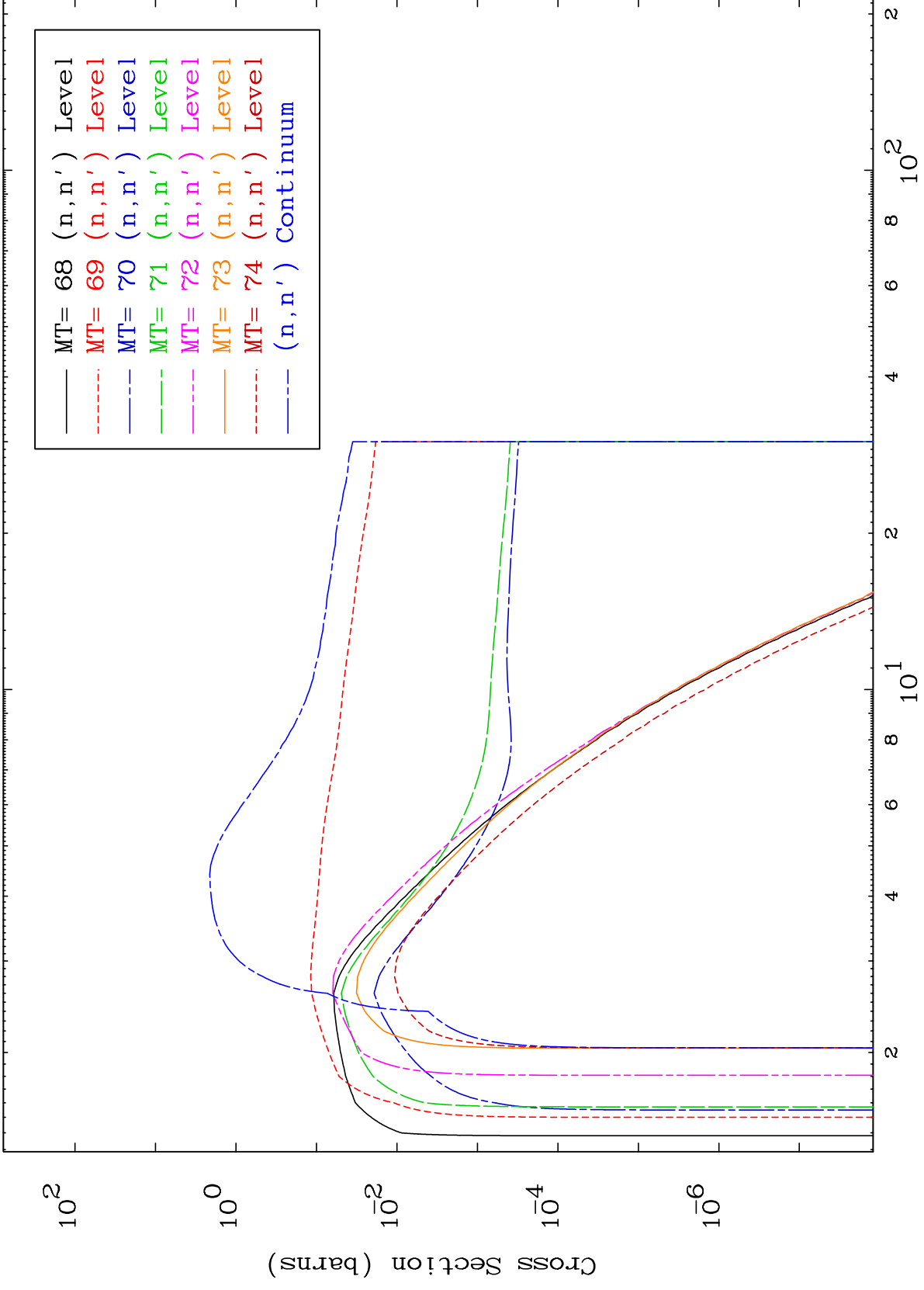


8

Incident Energy (MeV)

55-Cs-138

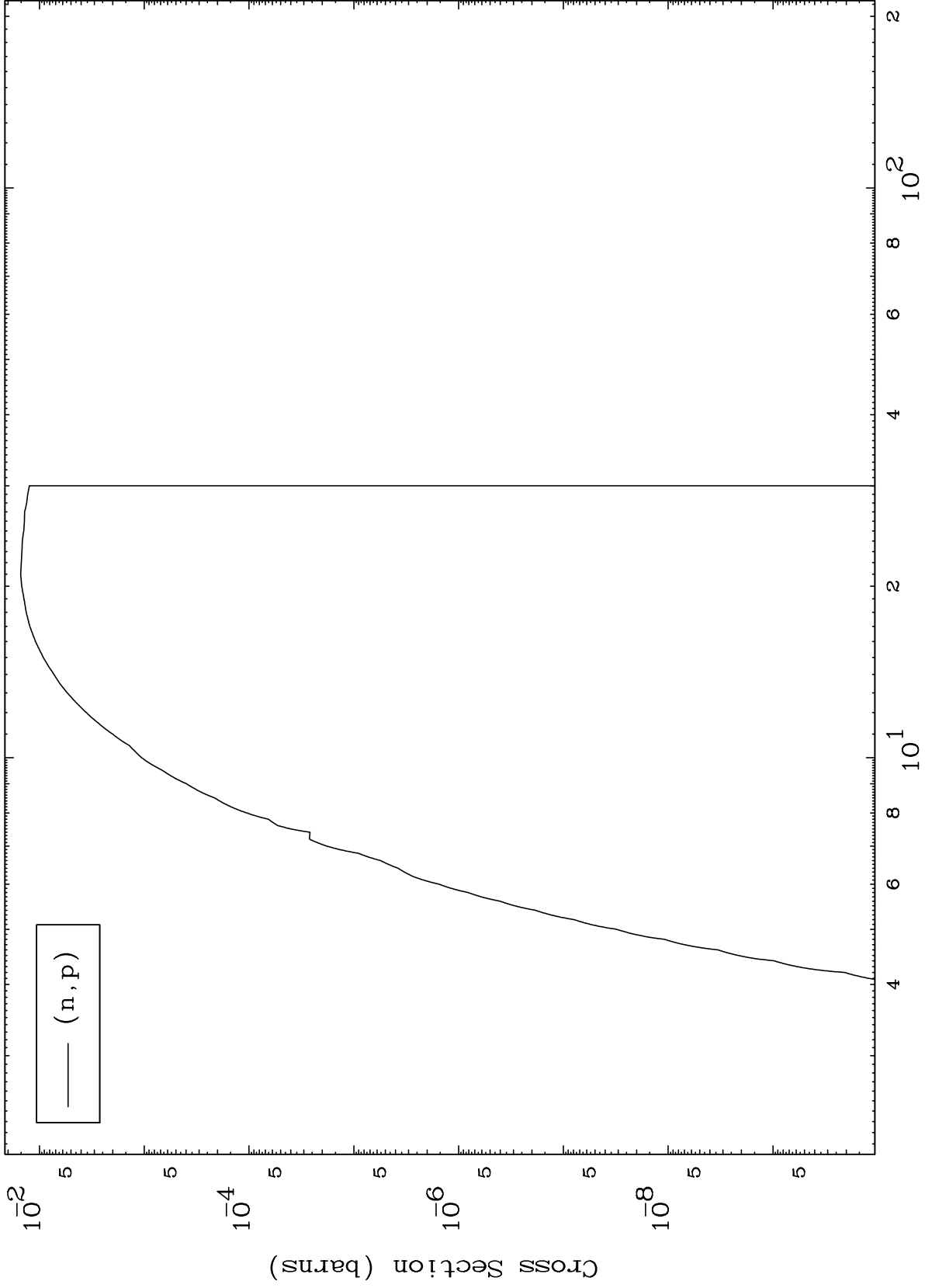
293 Kelvin Cross Sections



MAT 5540

(n,p) Levels
293 Kelvin Cross Sections

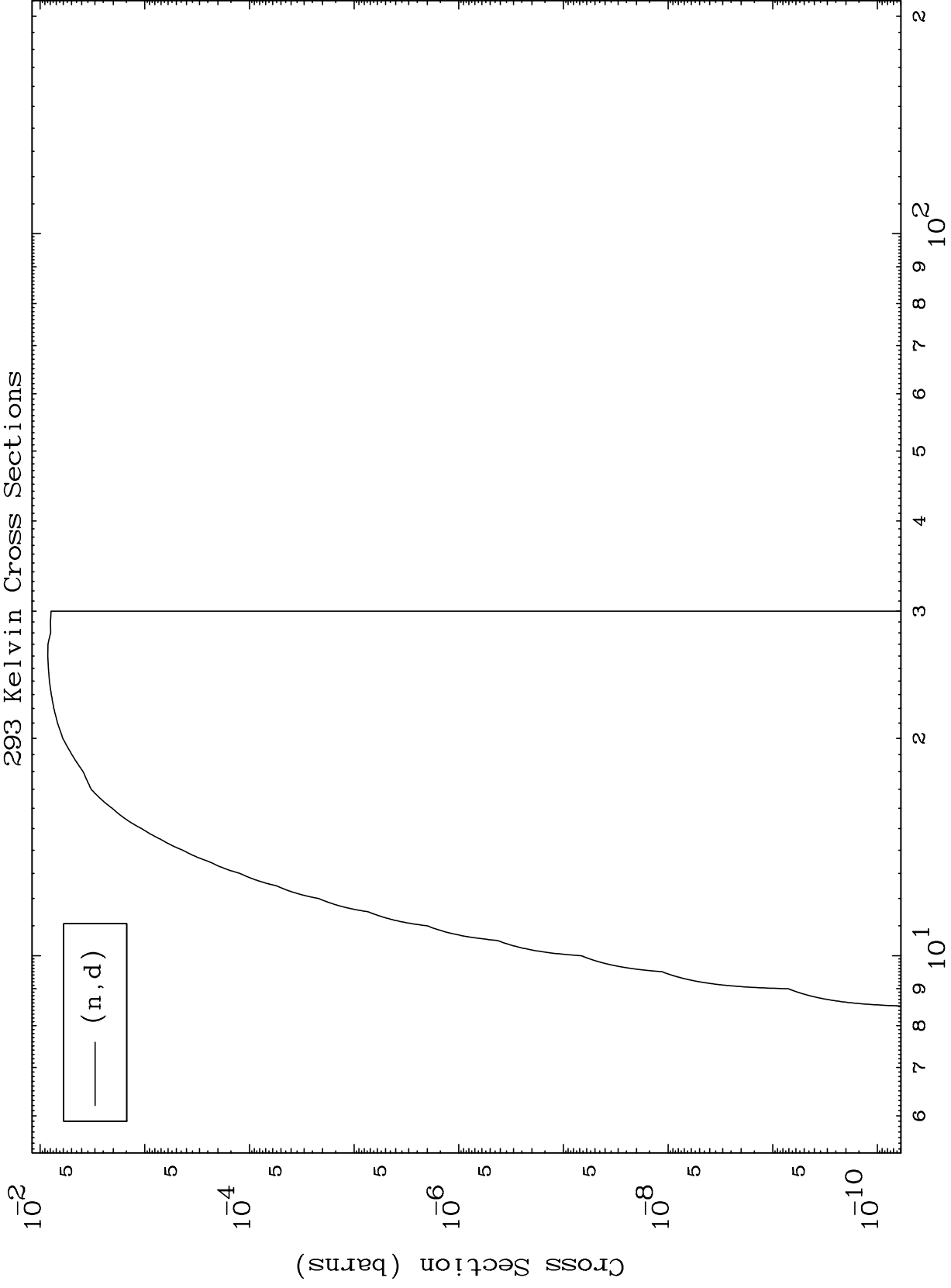
55-Cs-138



MAT 5540

(n,d) Levels
293 Kelvin Cross Sections

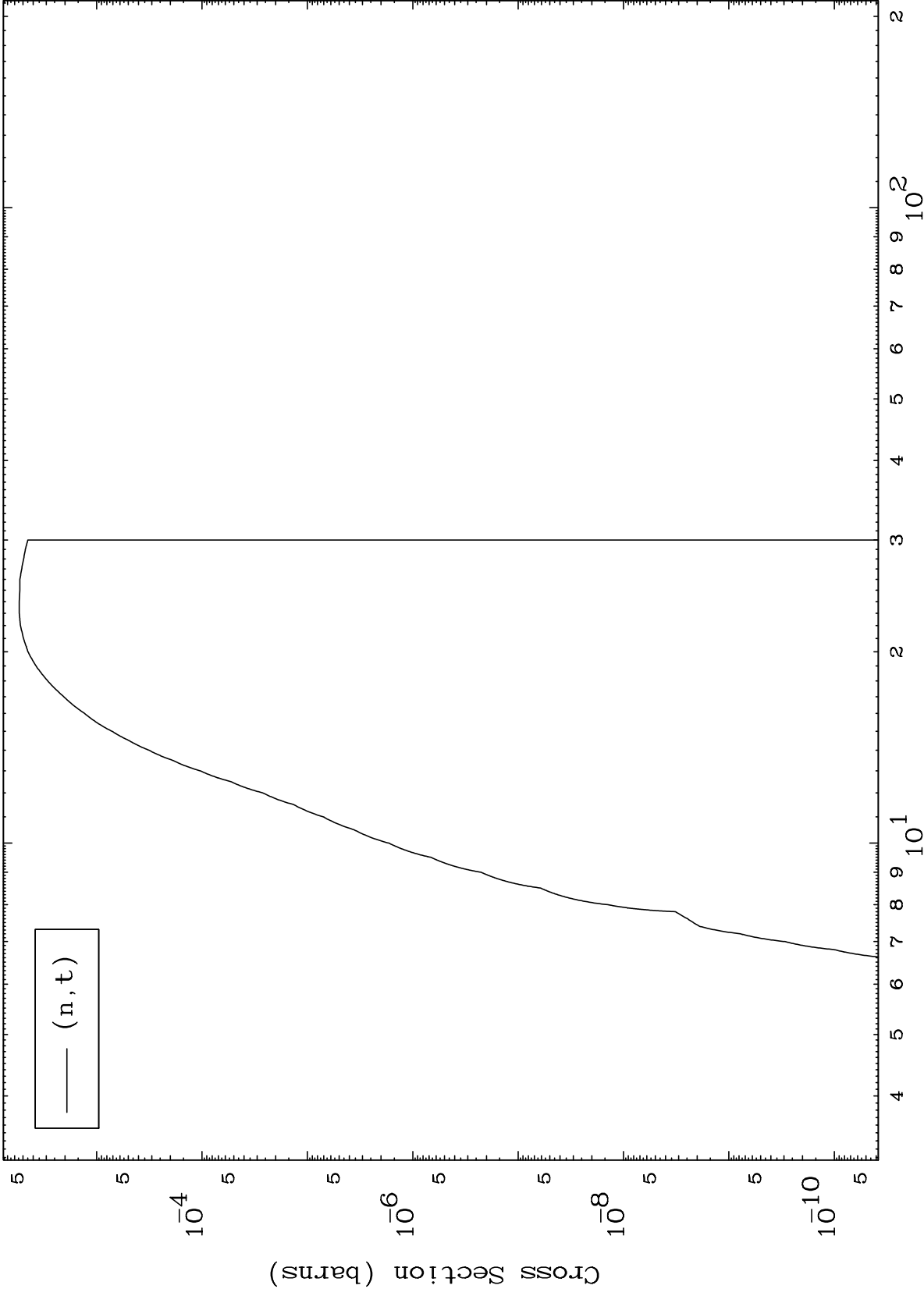
55-Cs-138



MAT 5540

(n,t) Levels
293 Kelvin Cross Sections

55-Cs-138



(n,t)

12

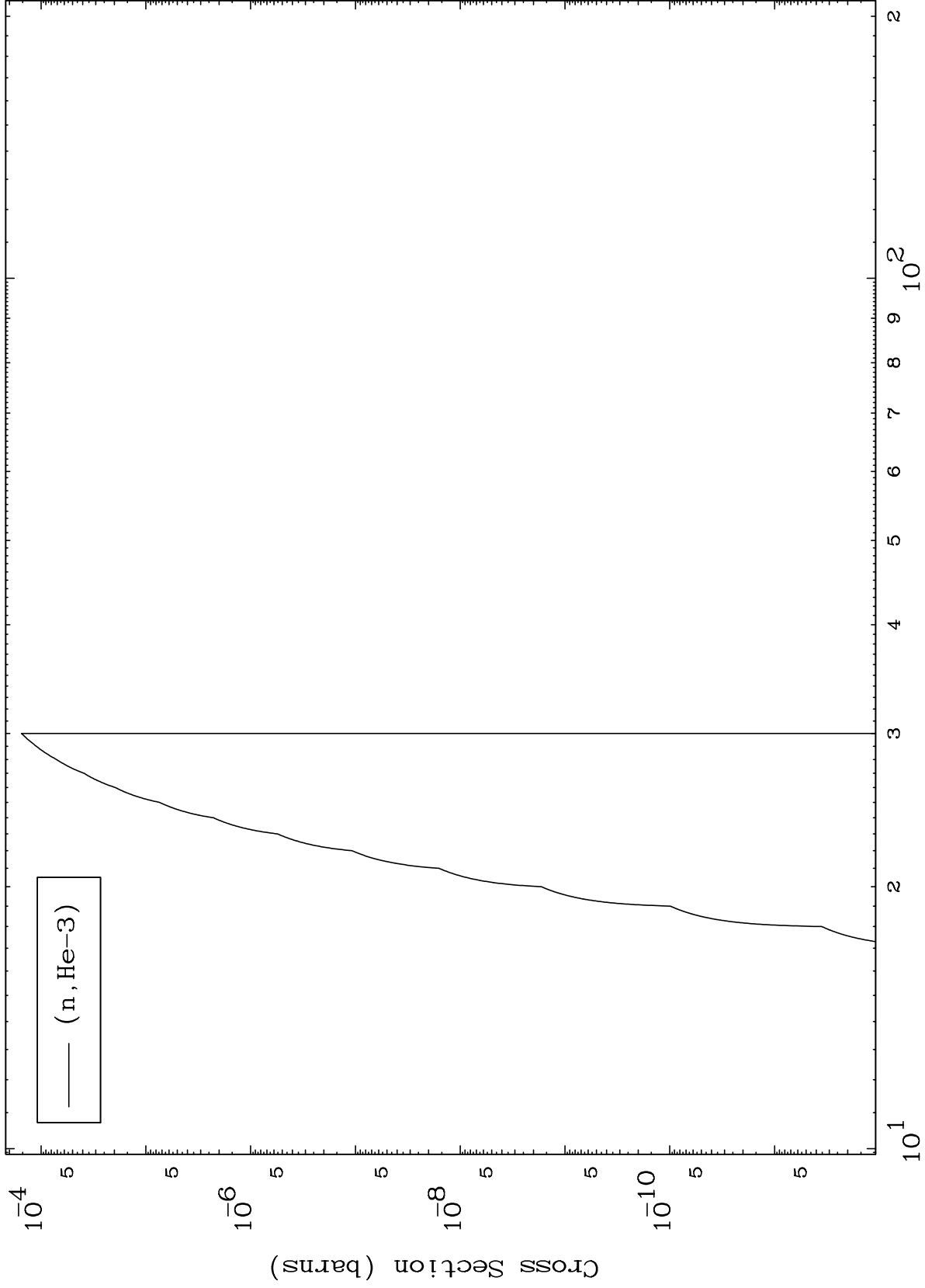
Incident Energy (MeV)

55-Cs-138

MAT 5540

(n,He3) Levels
293 Kelvin Cross Sections

55-Cs-138



13

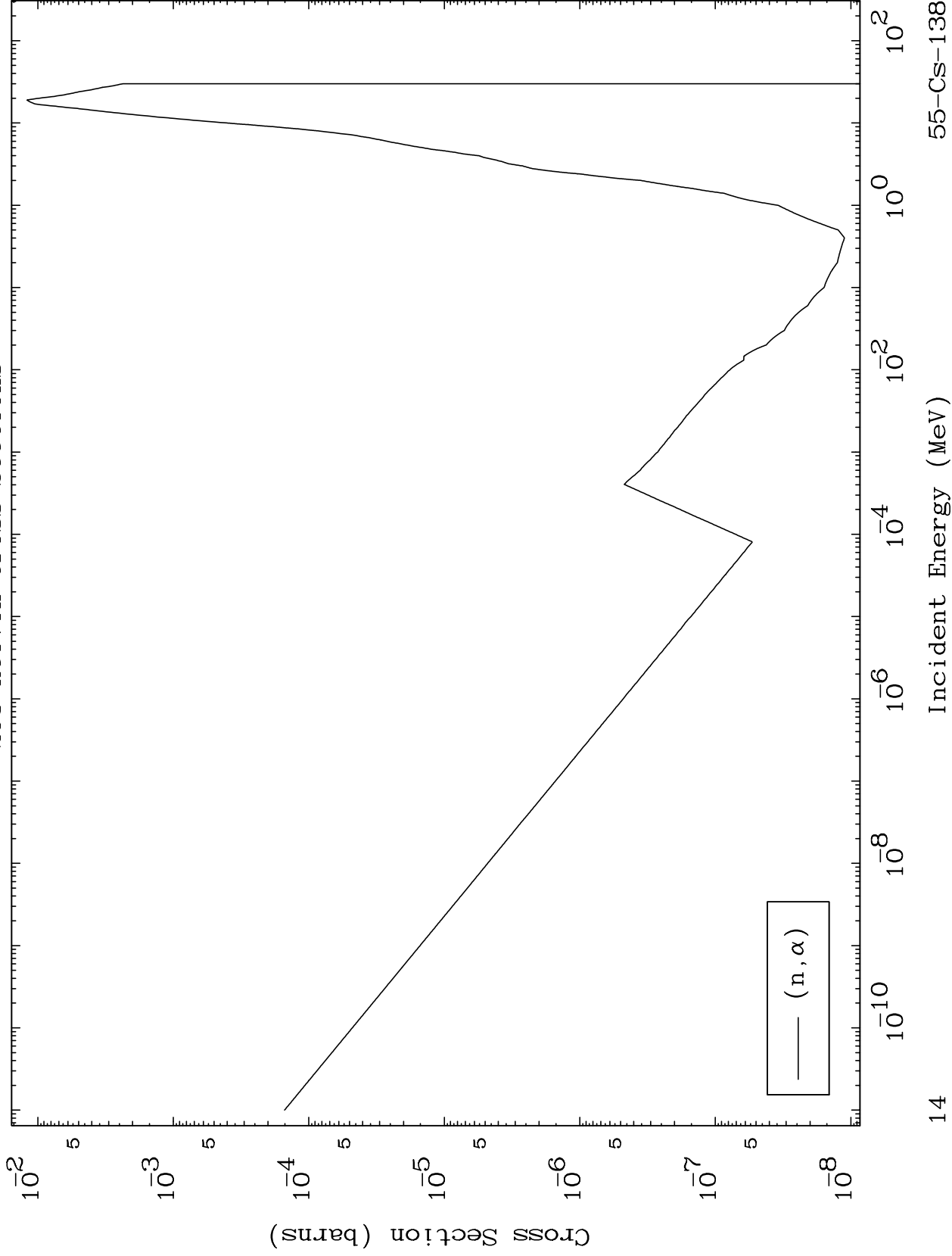
Incident Energy (MeV)

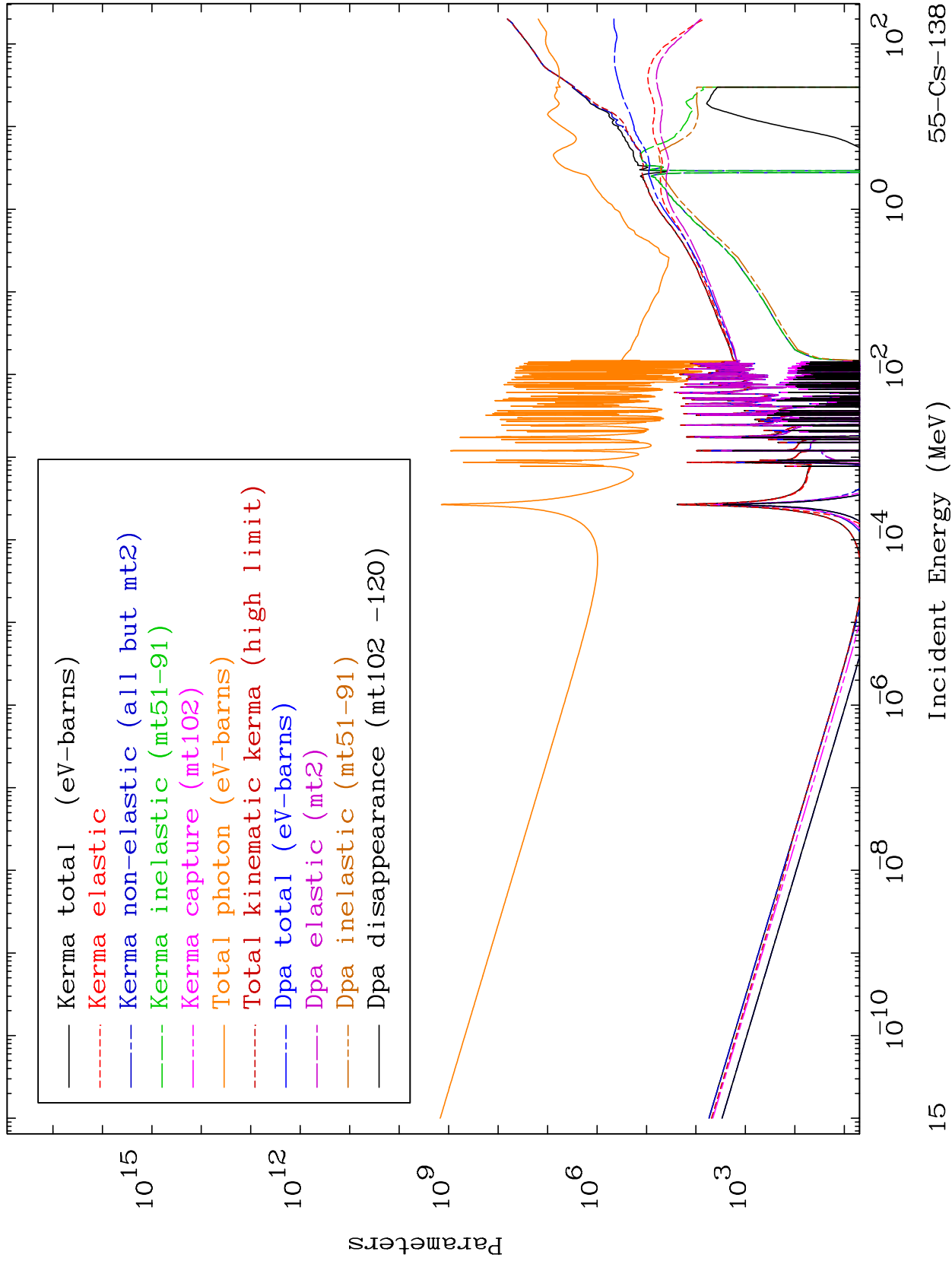
55-Cs-138

MAT 5540

(n, α) Levels
293 Kelvin Cross Sections

55-Cs-138

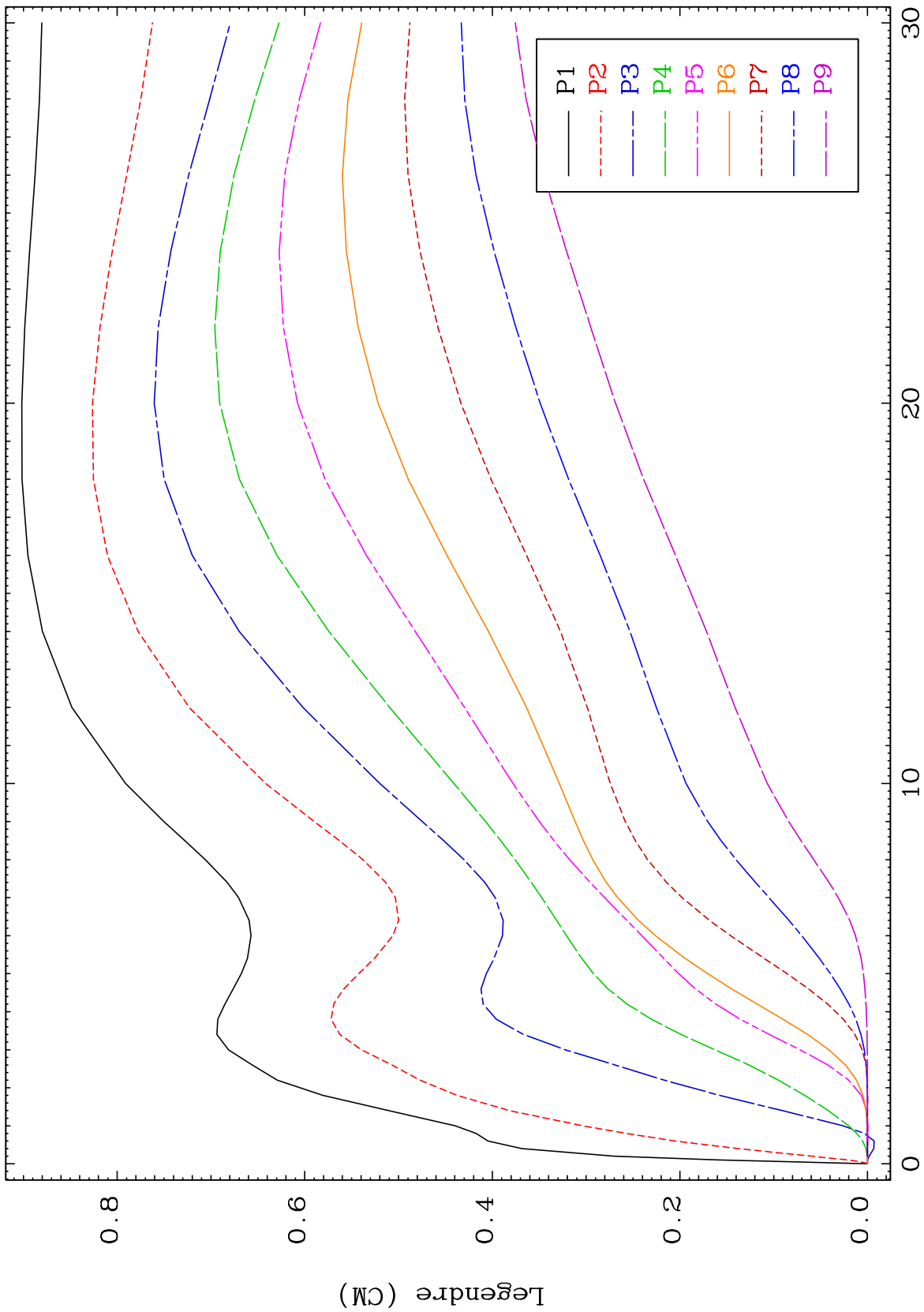




MAT 5540

Elastic Legendre Coefficients

55-Cs-138



55-Cs-138

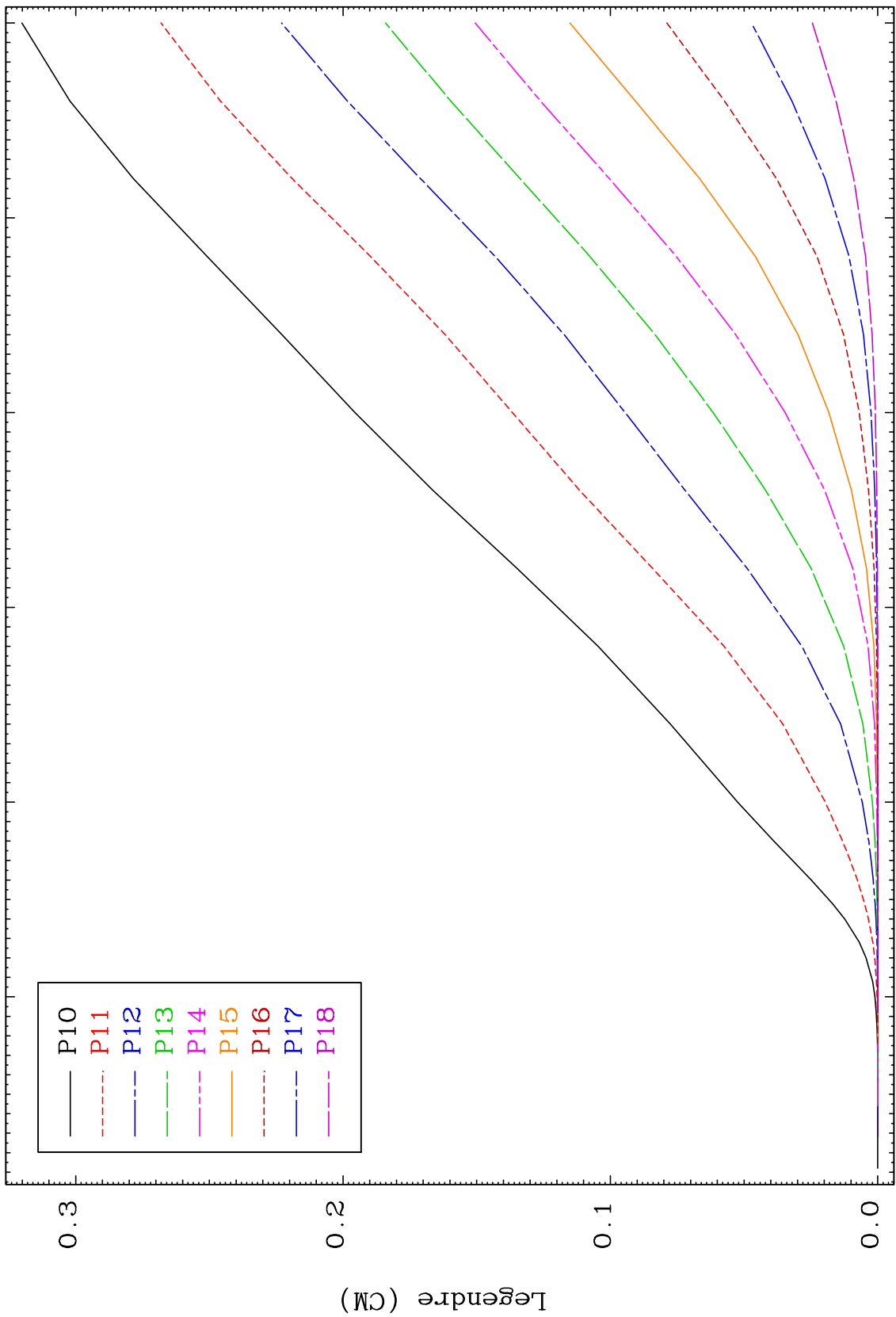
Incident Energy (MeV)

16

MAT 5540

Elastic Legendre Coefficients

55-Cs-138



17

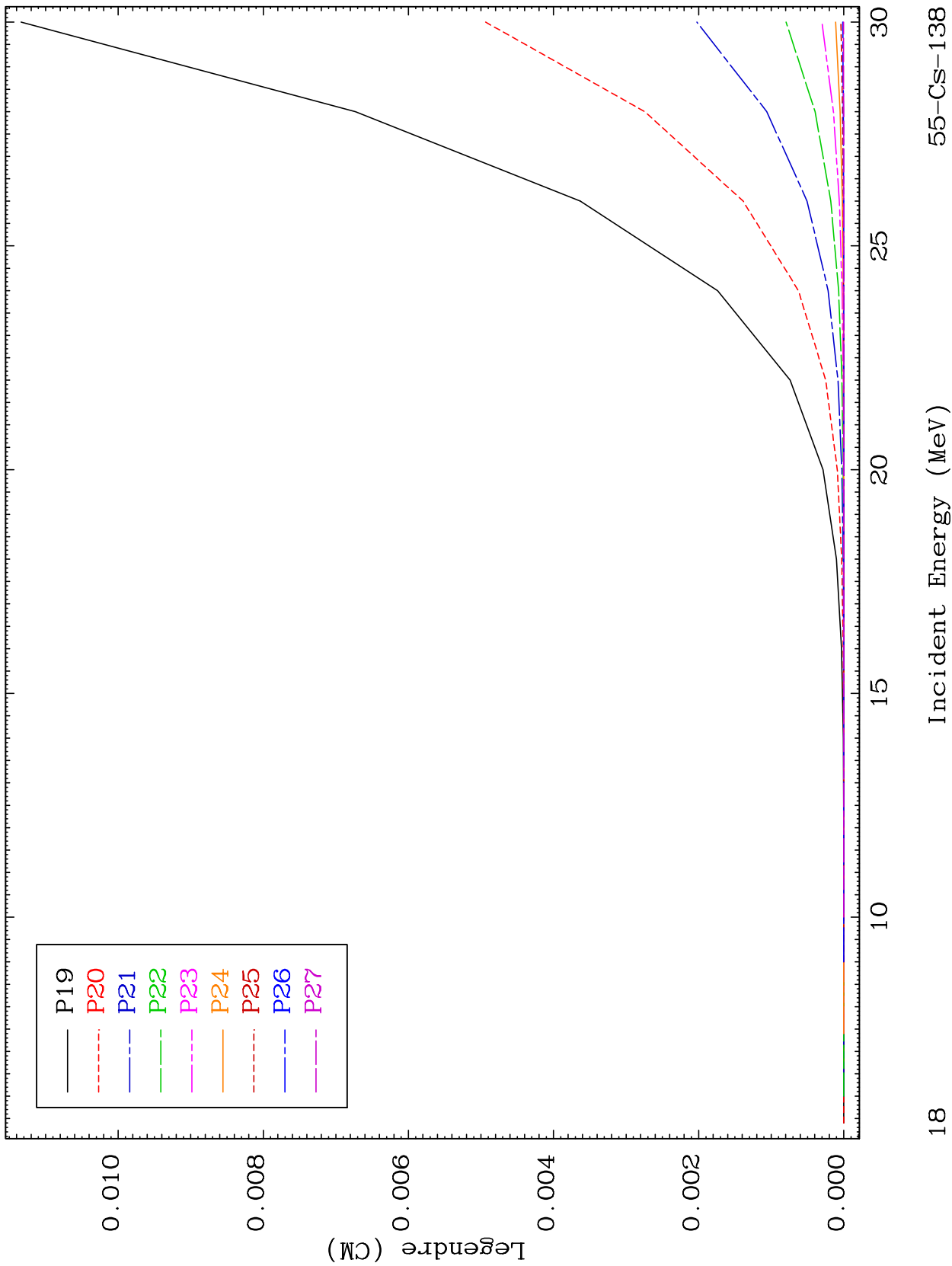
55-Cs-138

Incident Energy (MeV)

MAT 5540

Elastic Legendre Coefficients

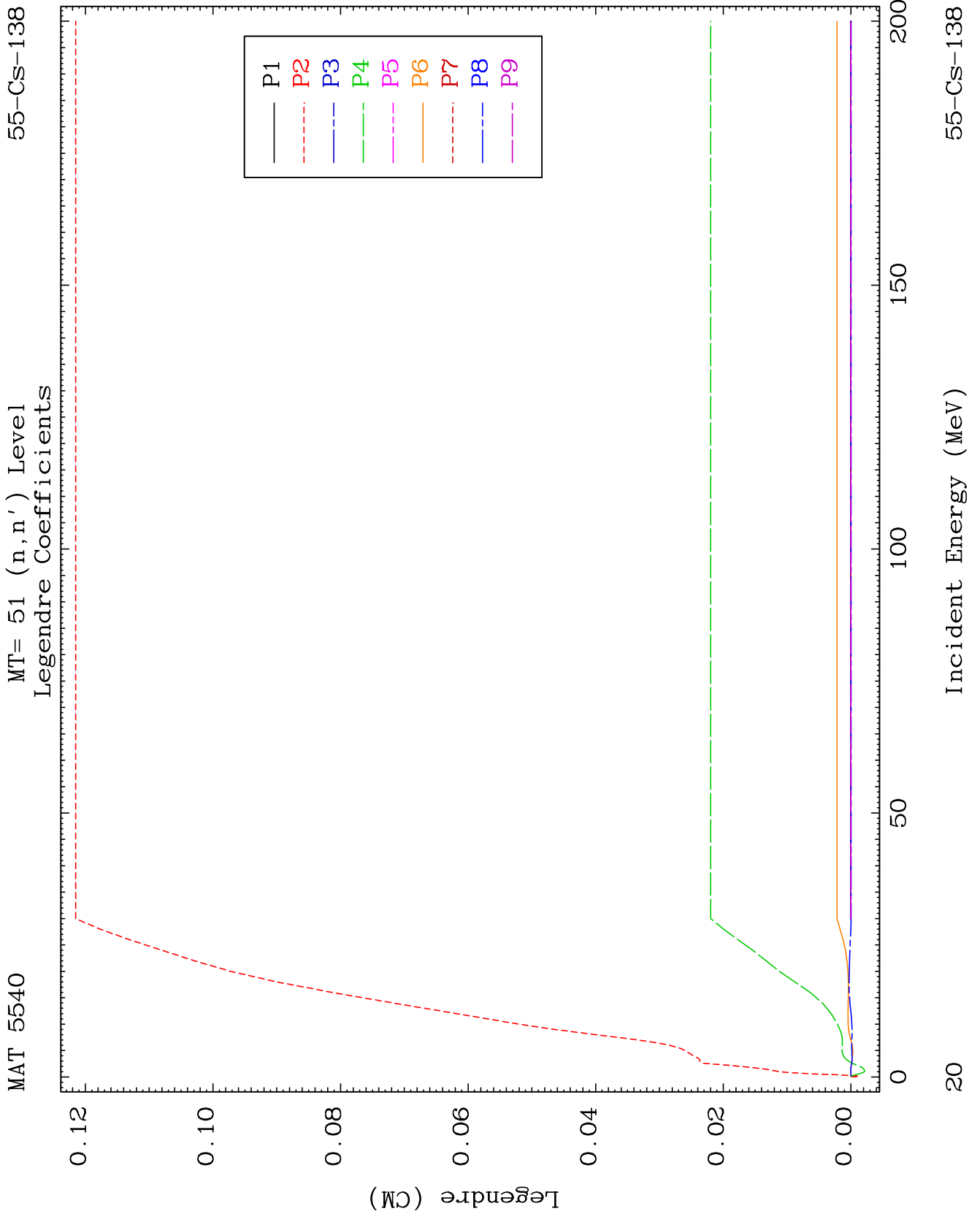
55-Cs-138



18

Incident Energy (MeV)

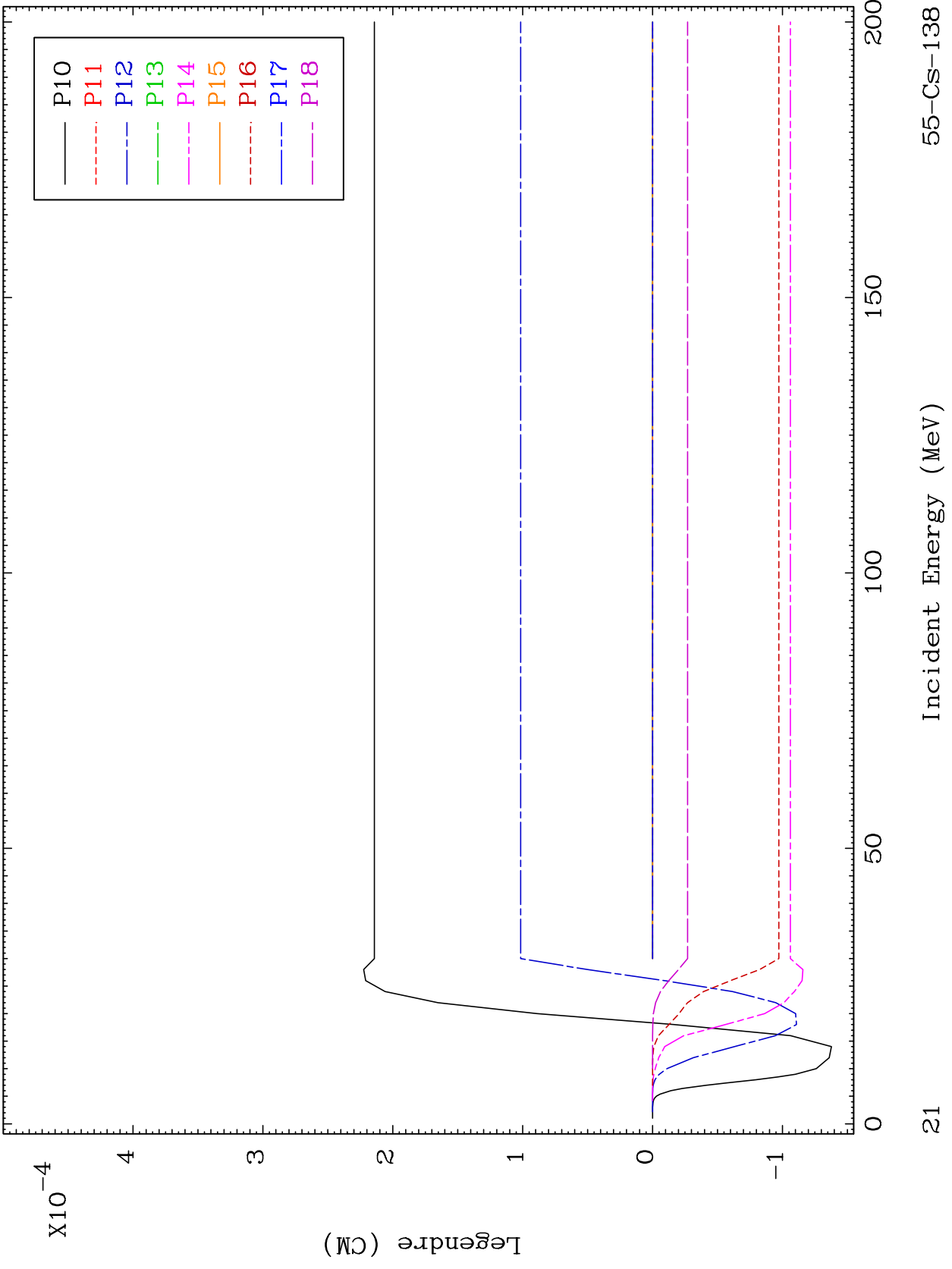
55-Cs-138

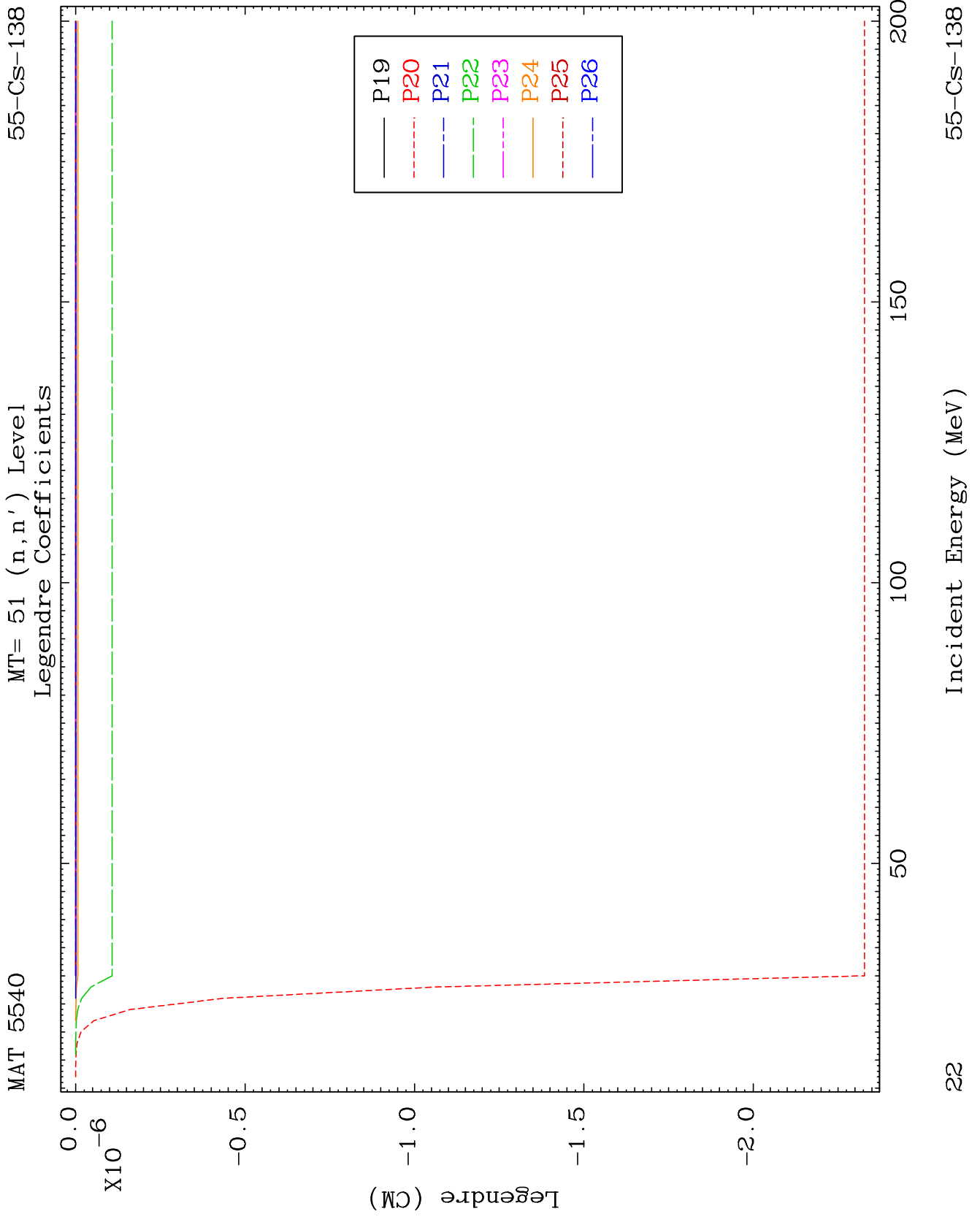


MAT 5540

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

55-Cs-138

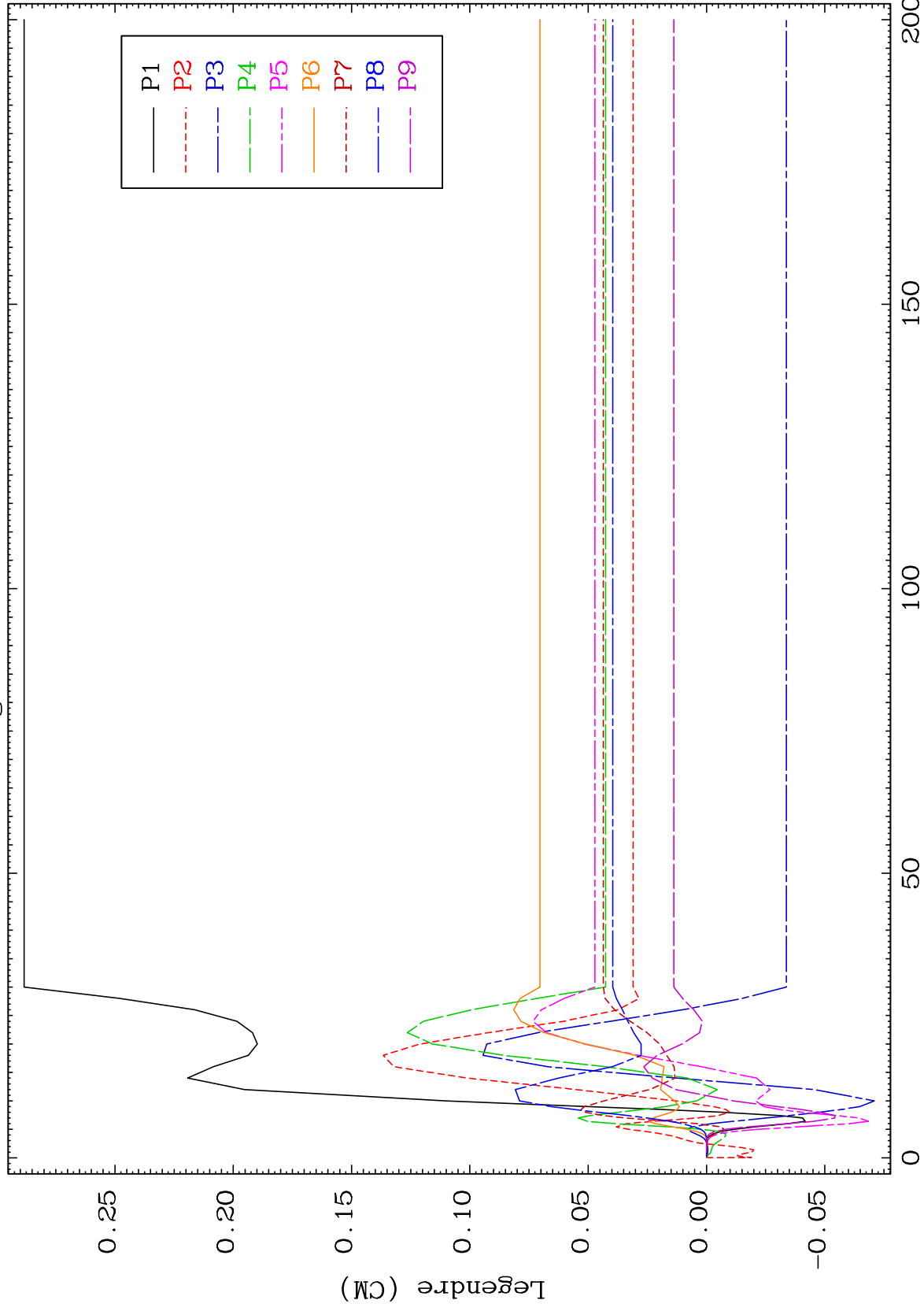




MAT 5540

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

55-Cs-138



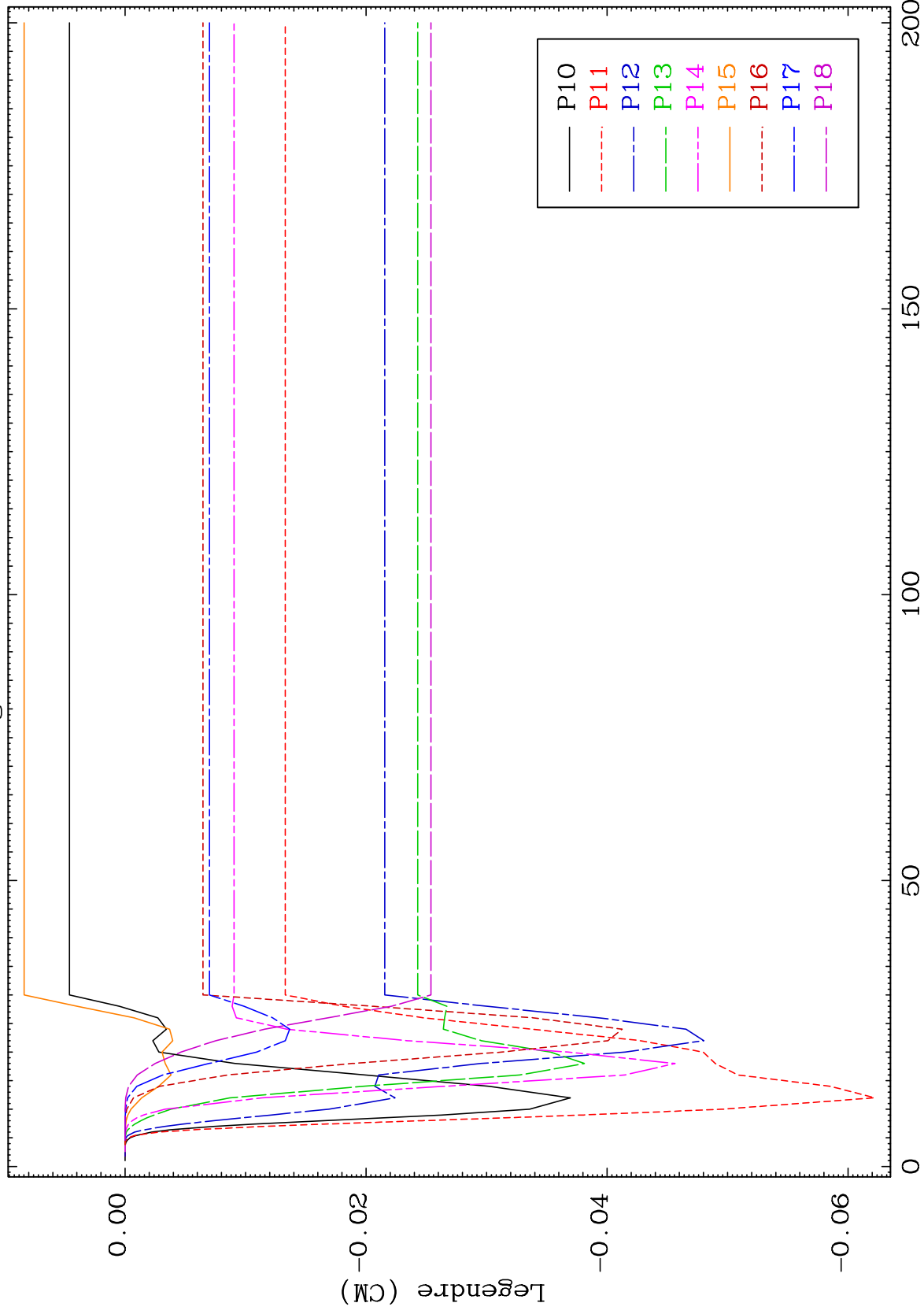
23

55-Cs-138

MAT 5540

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

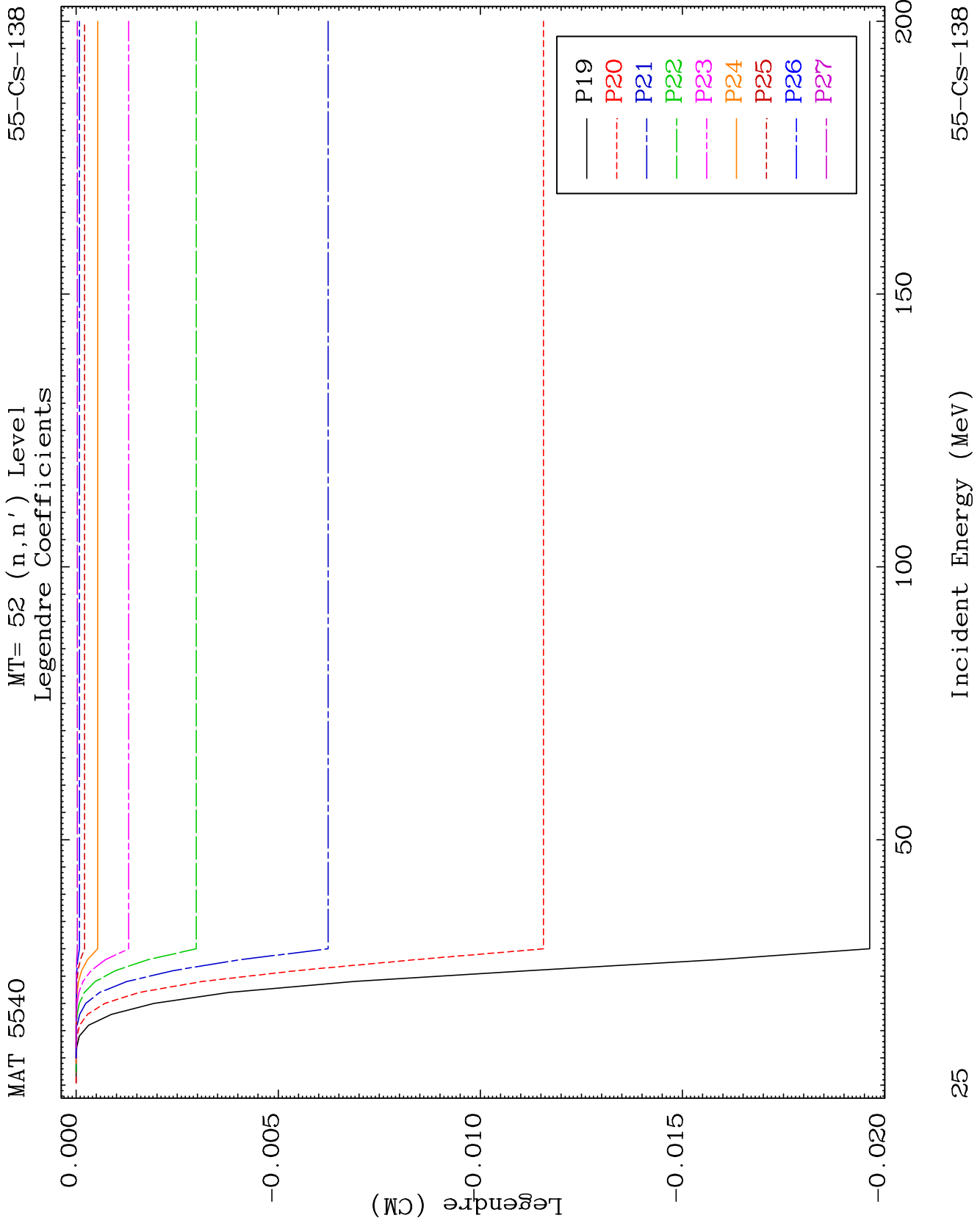
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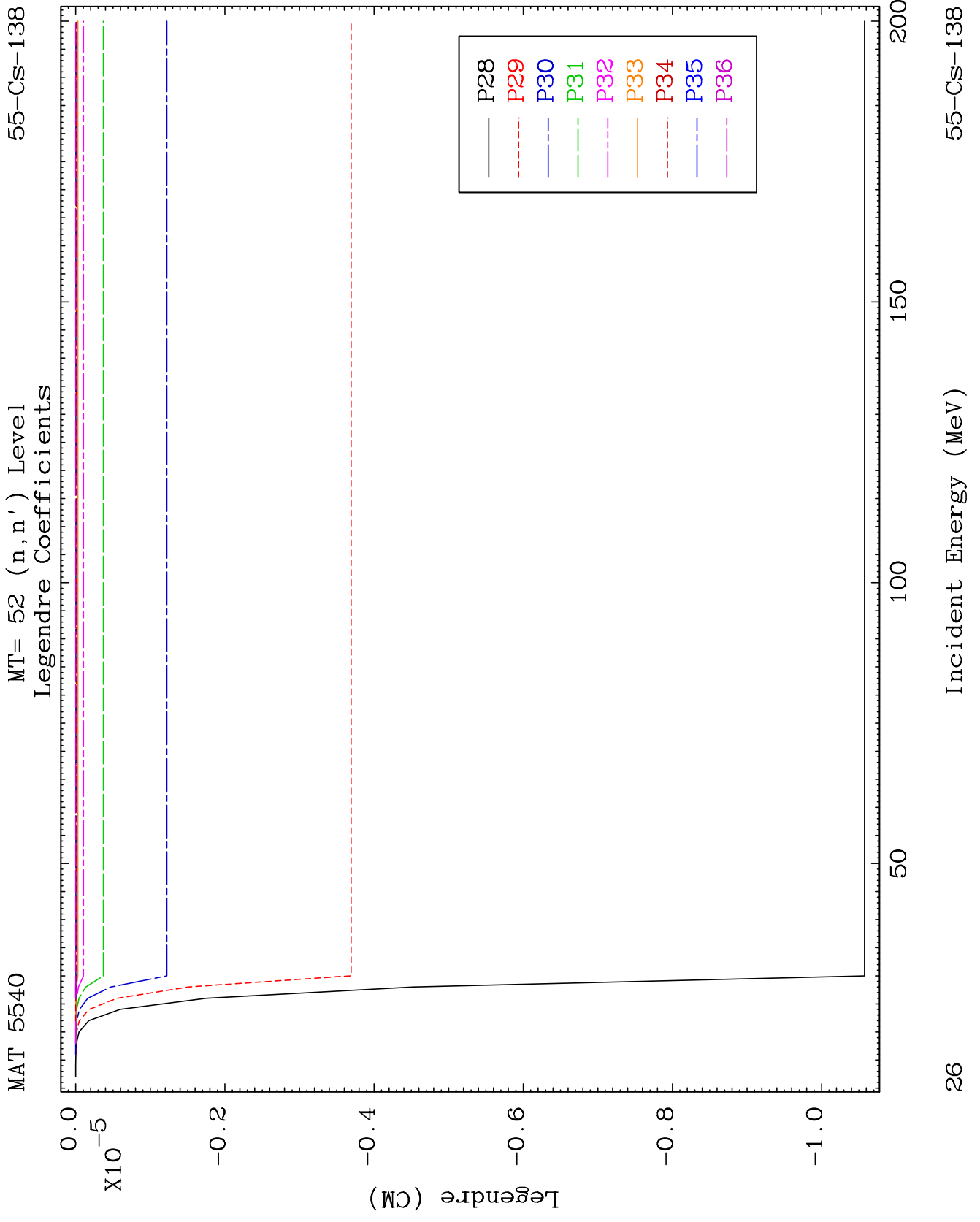


24

Incident Energy (MeV)

55-Cs-138

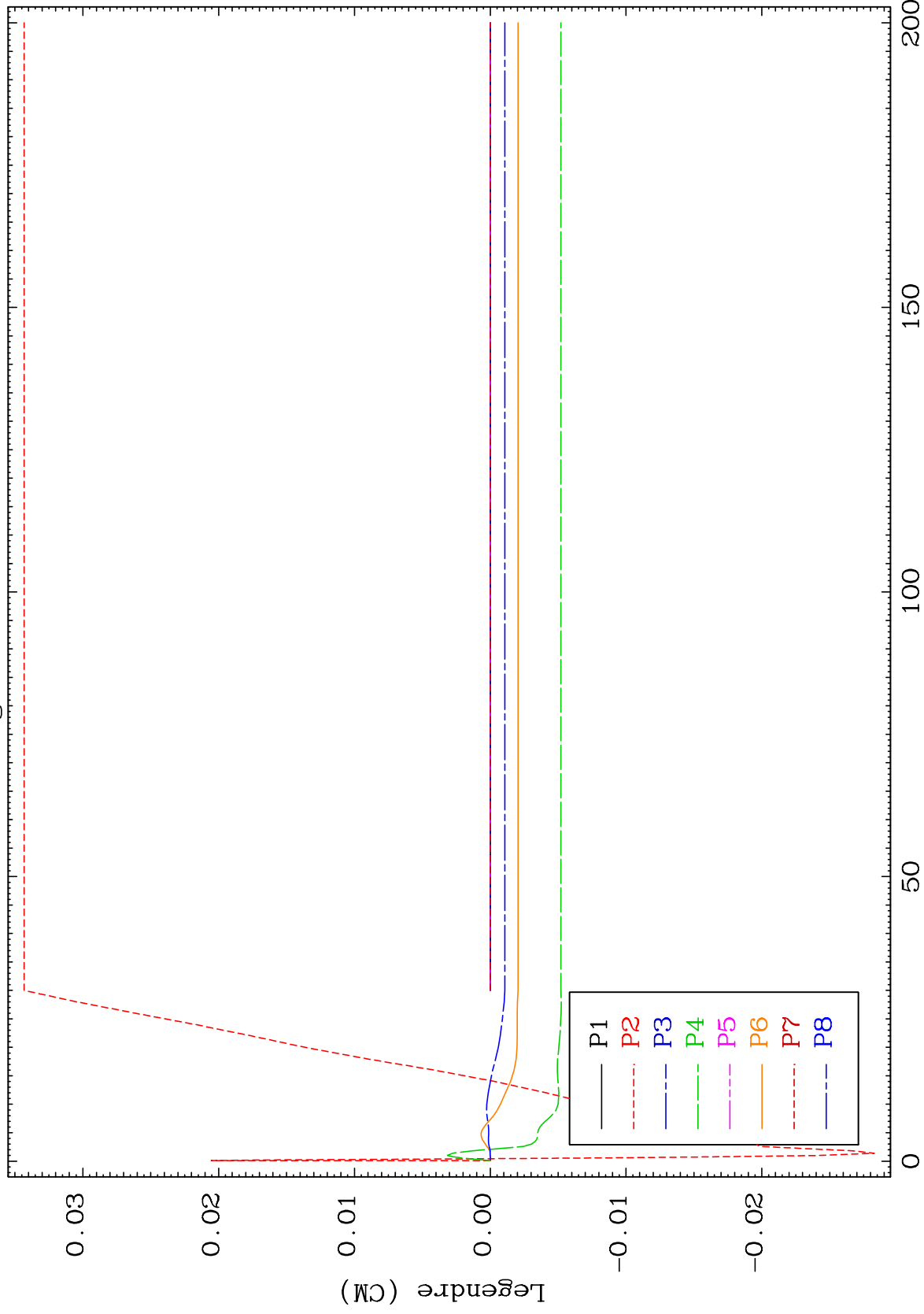




MAT 5540

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

55-Cs-138



27

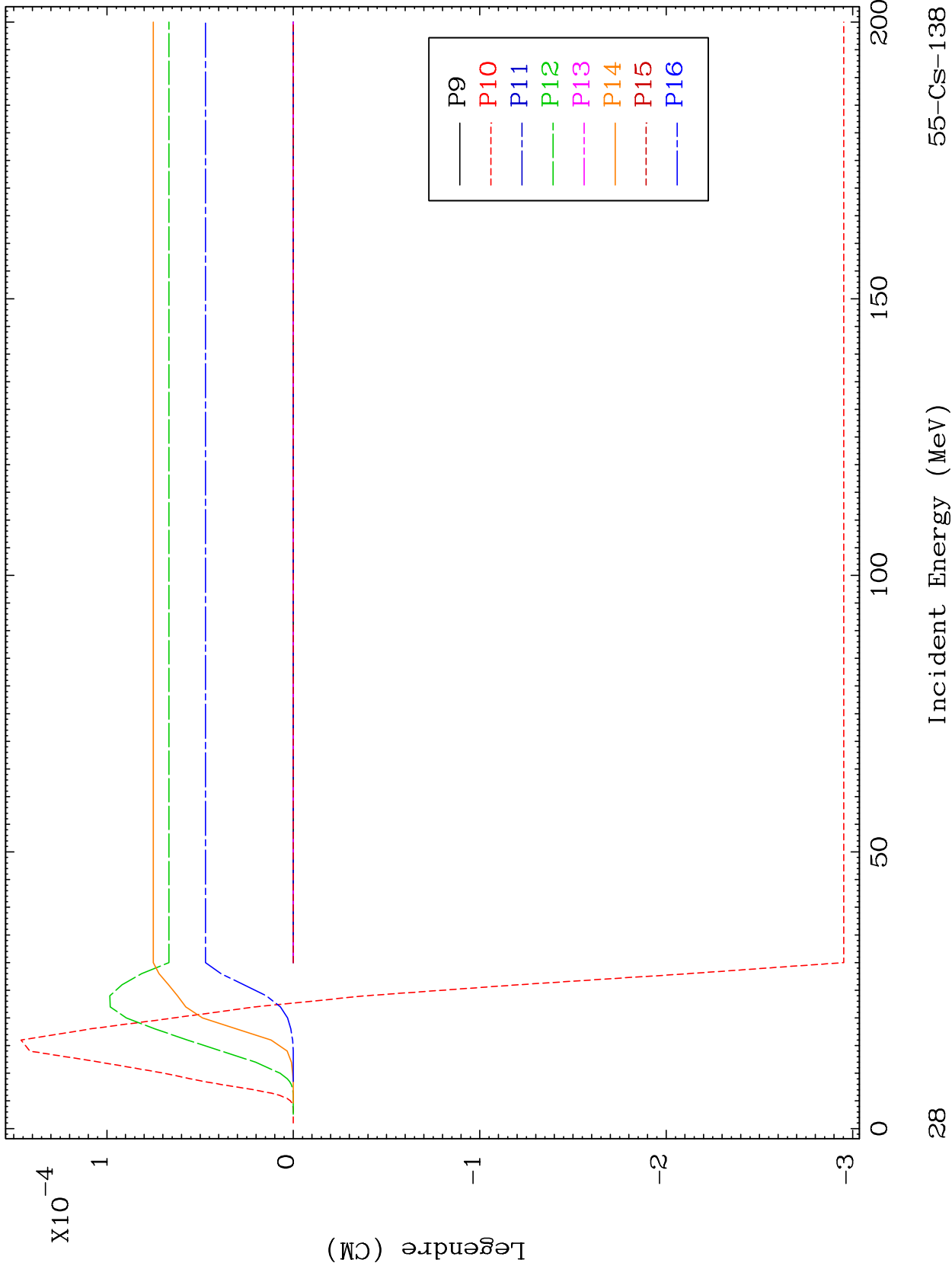
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

55-Cs-138



28

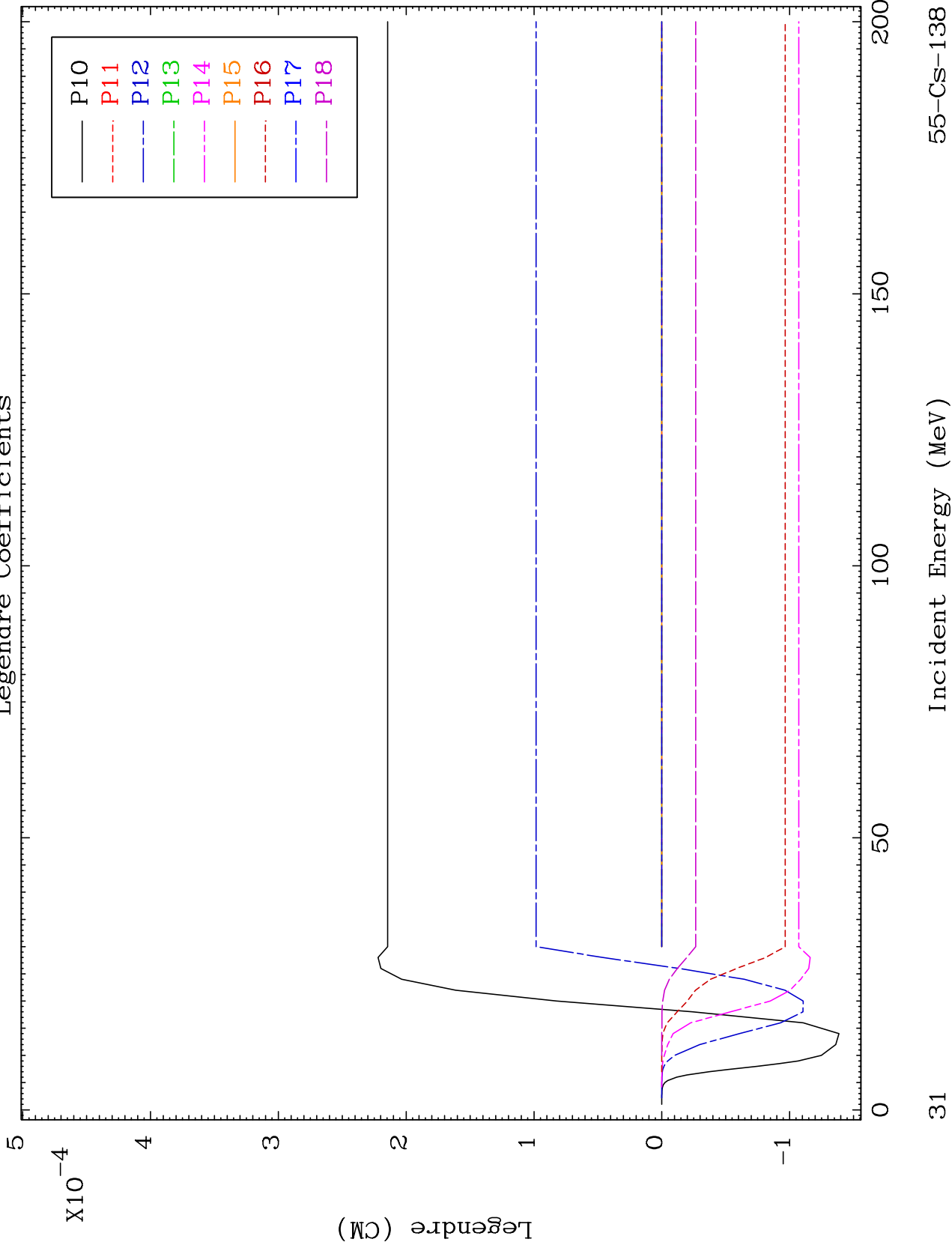
Incident Energy (MeV)

55-Cs-138

MAT 5540

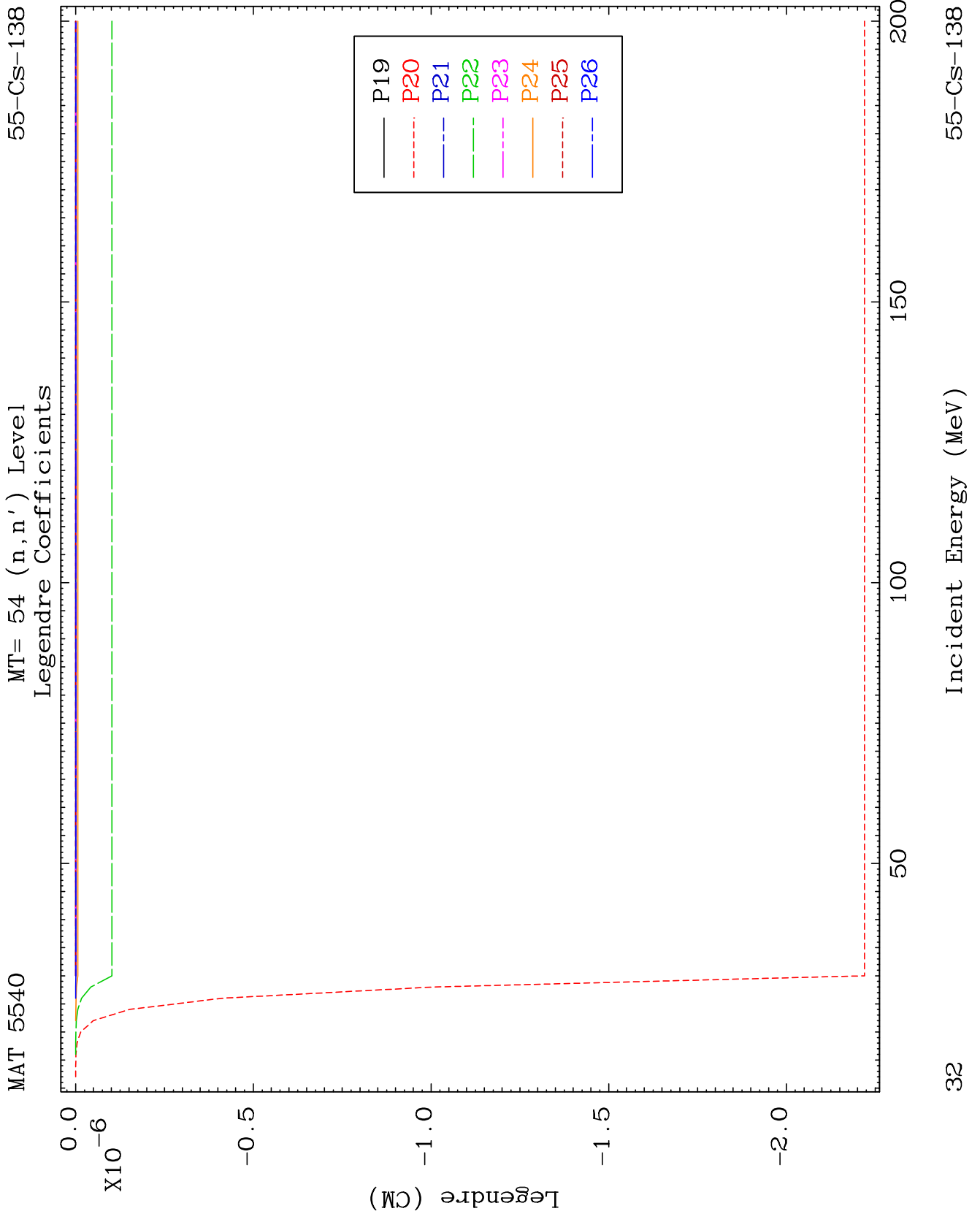
MT= 54 (n,n') Level
Legendre Coefficients

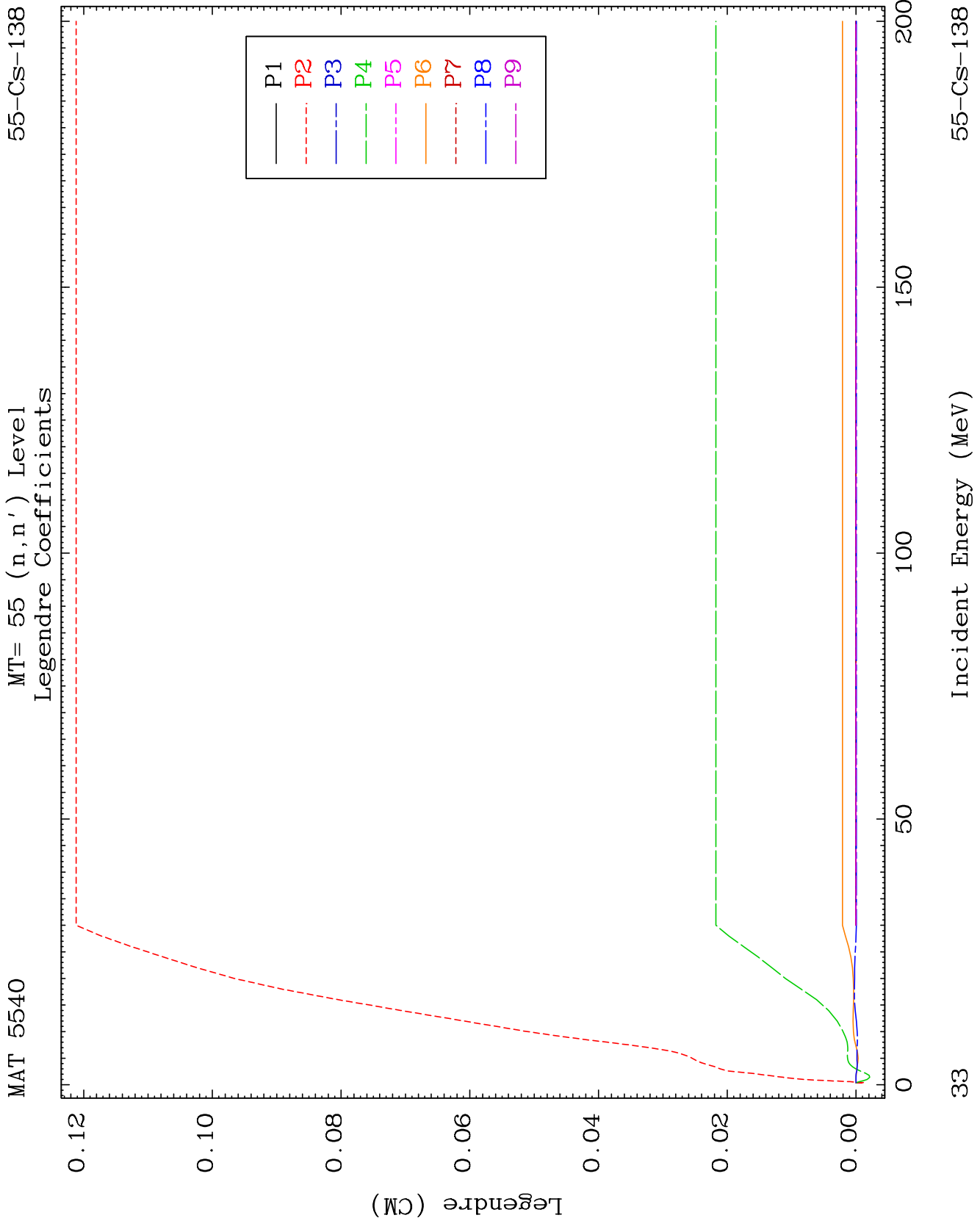
55-Cs-138

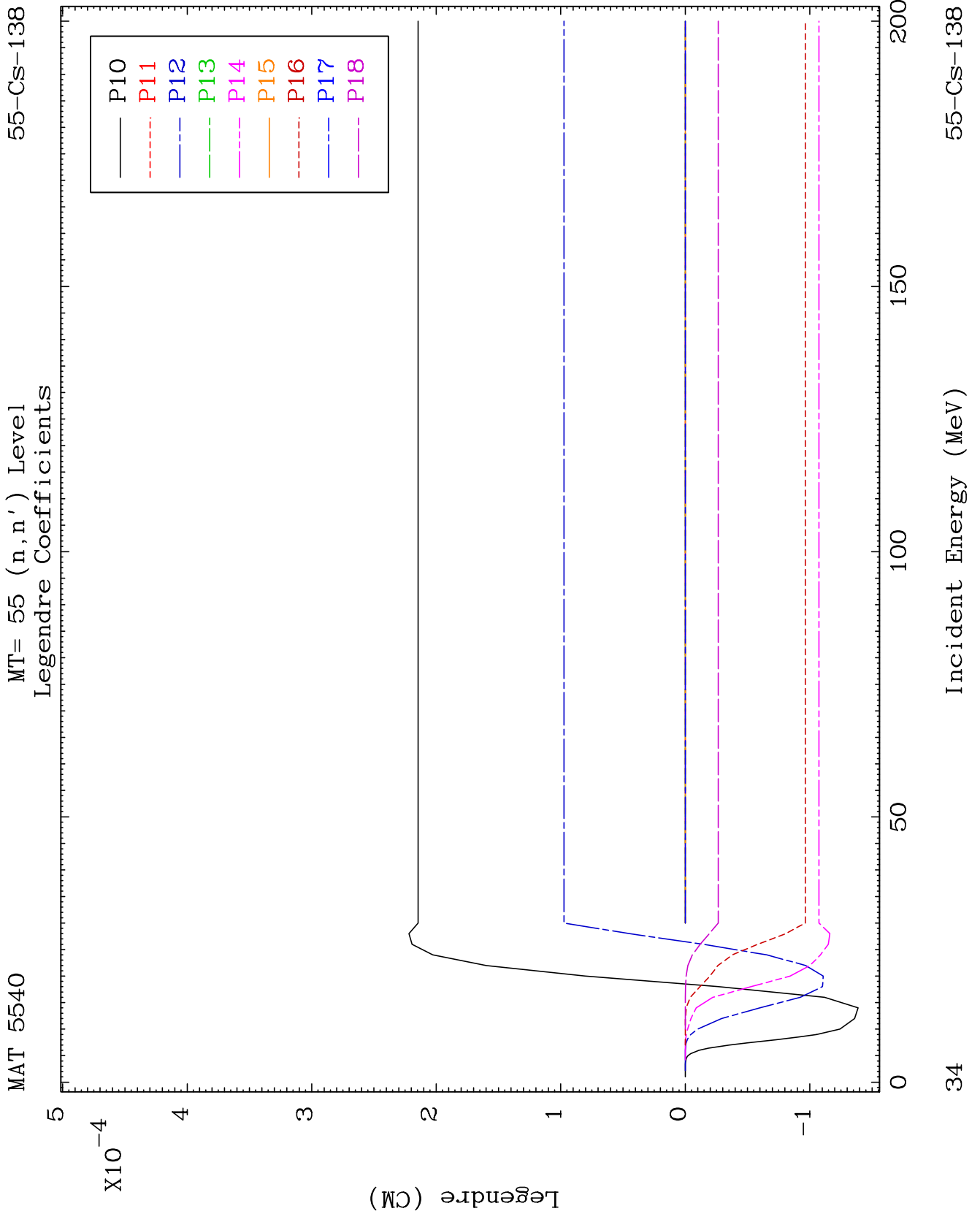


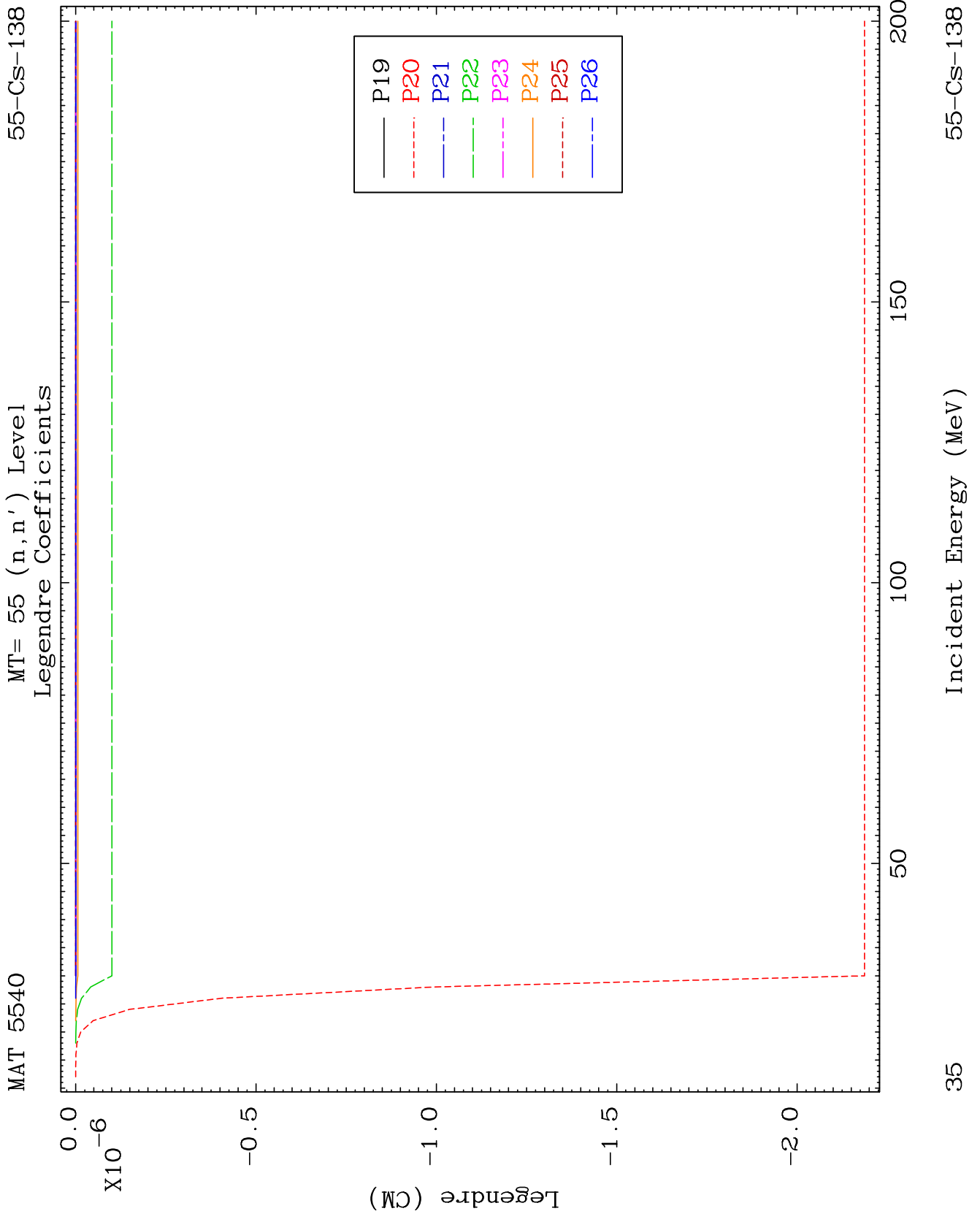
31

55-Cs-138





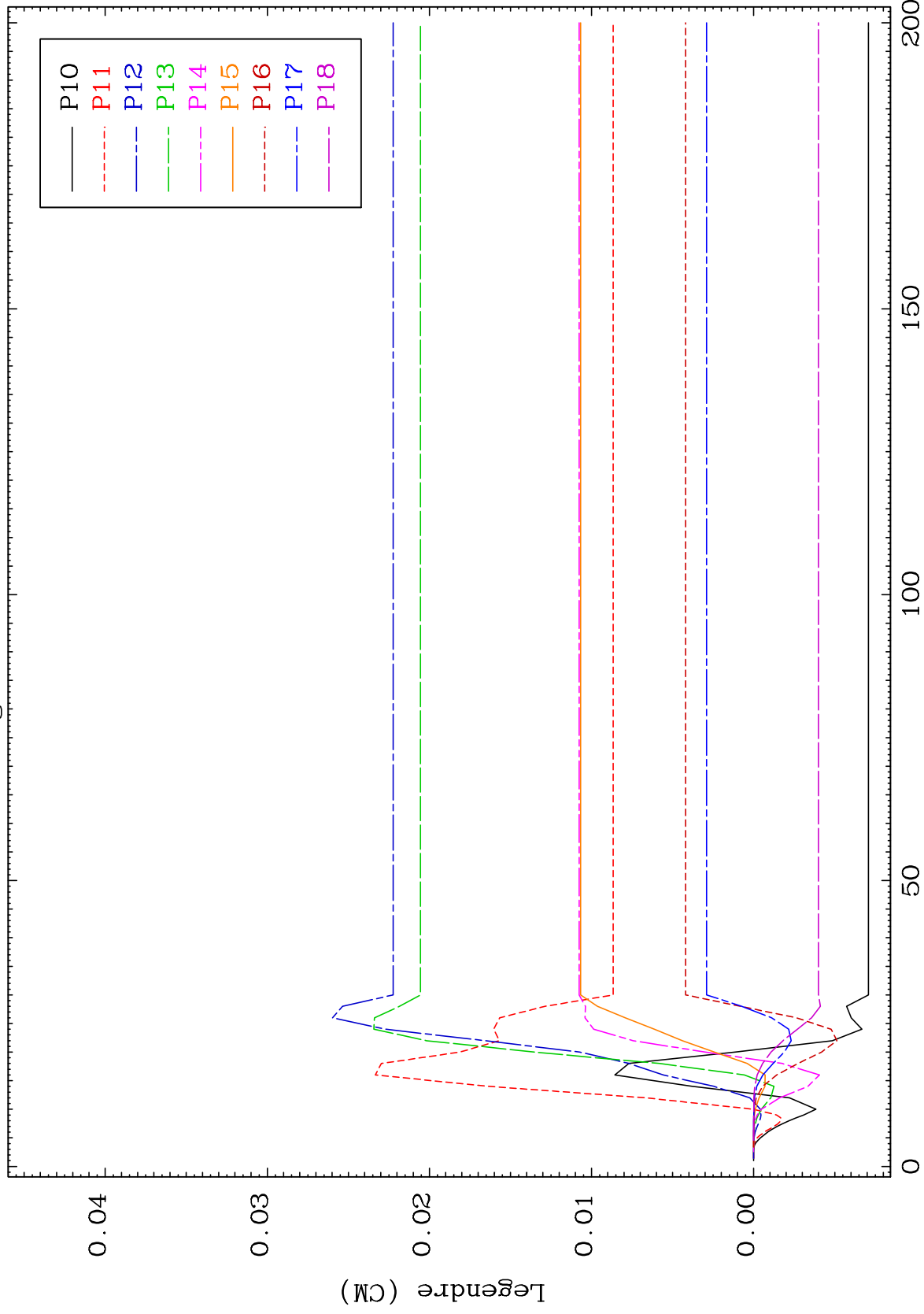




MAT 5540

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

55-Cs-138



37

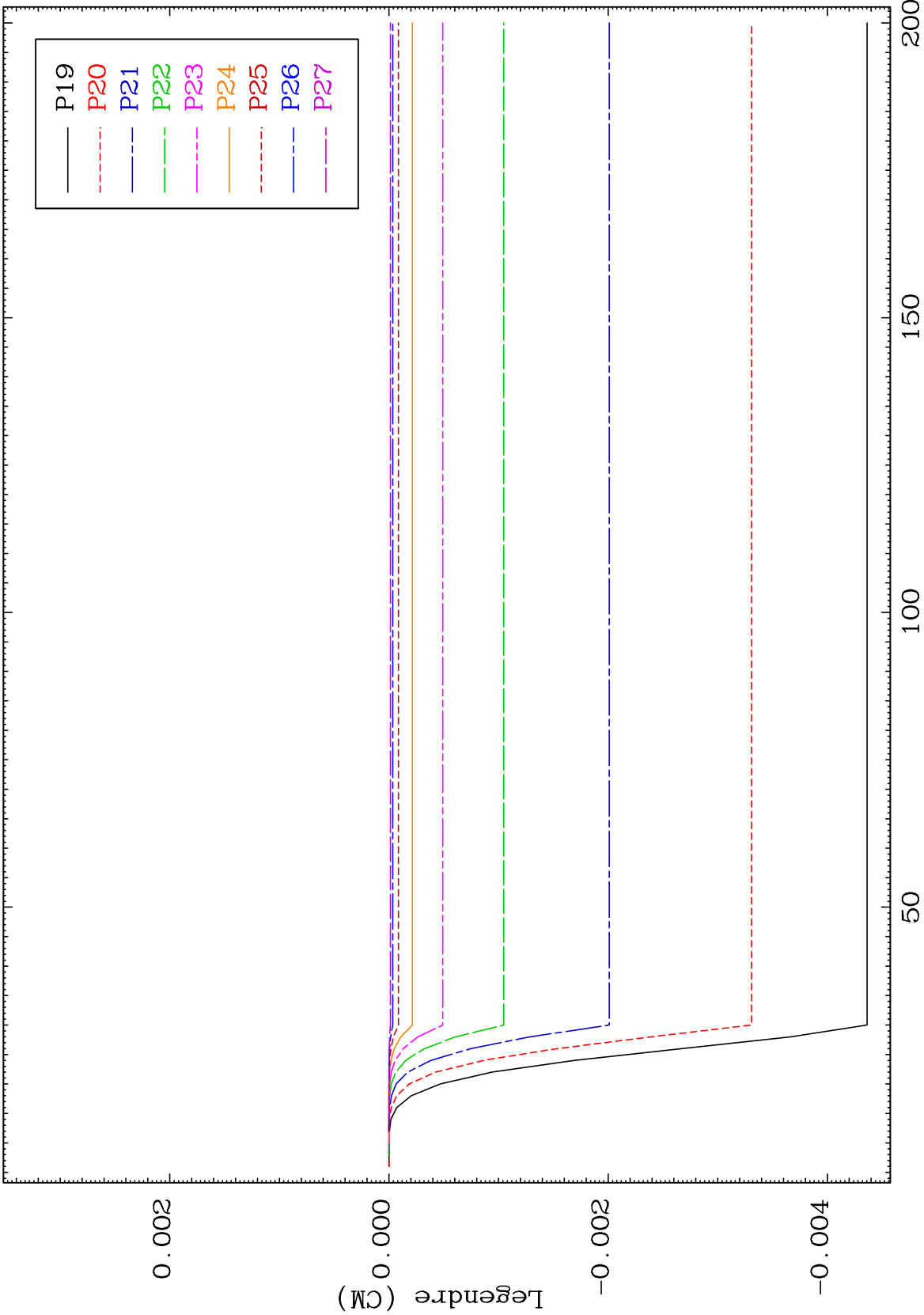
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

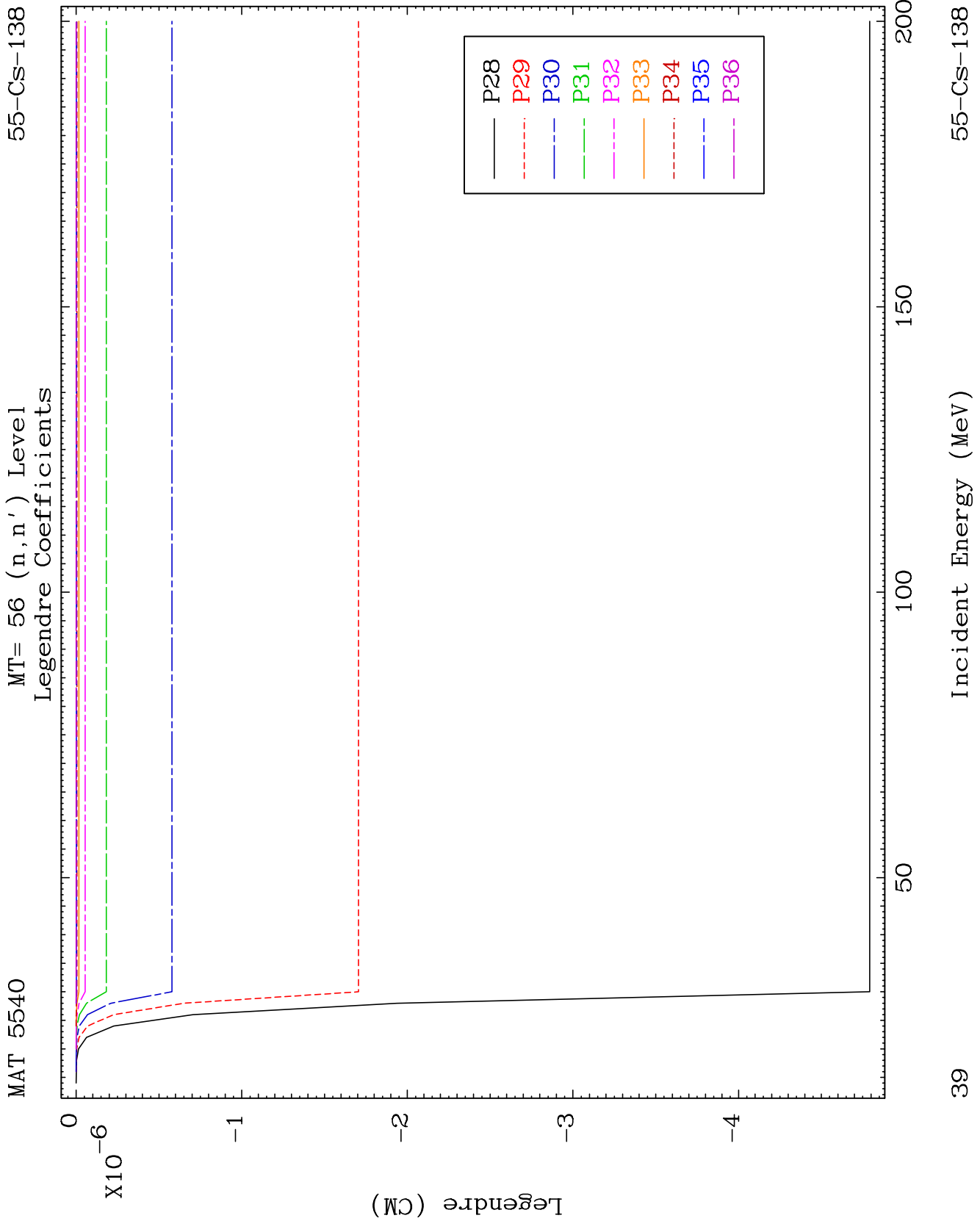
55-Cs-138



38

Incident Energy (MeV)

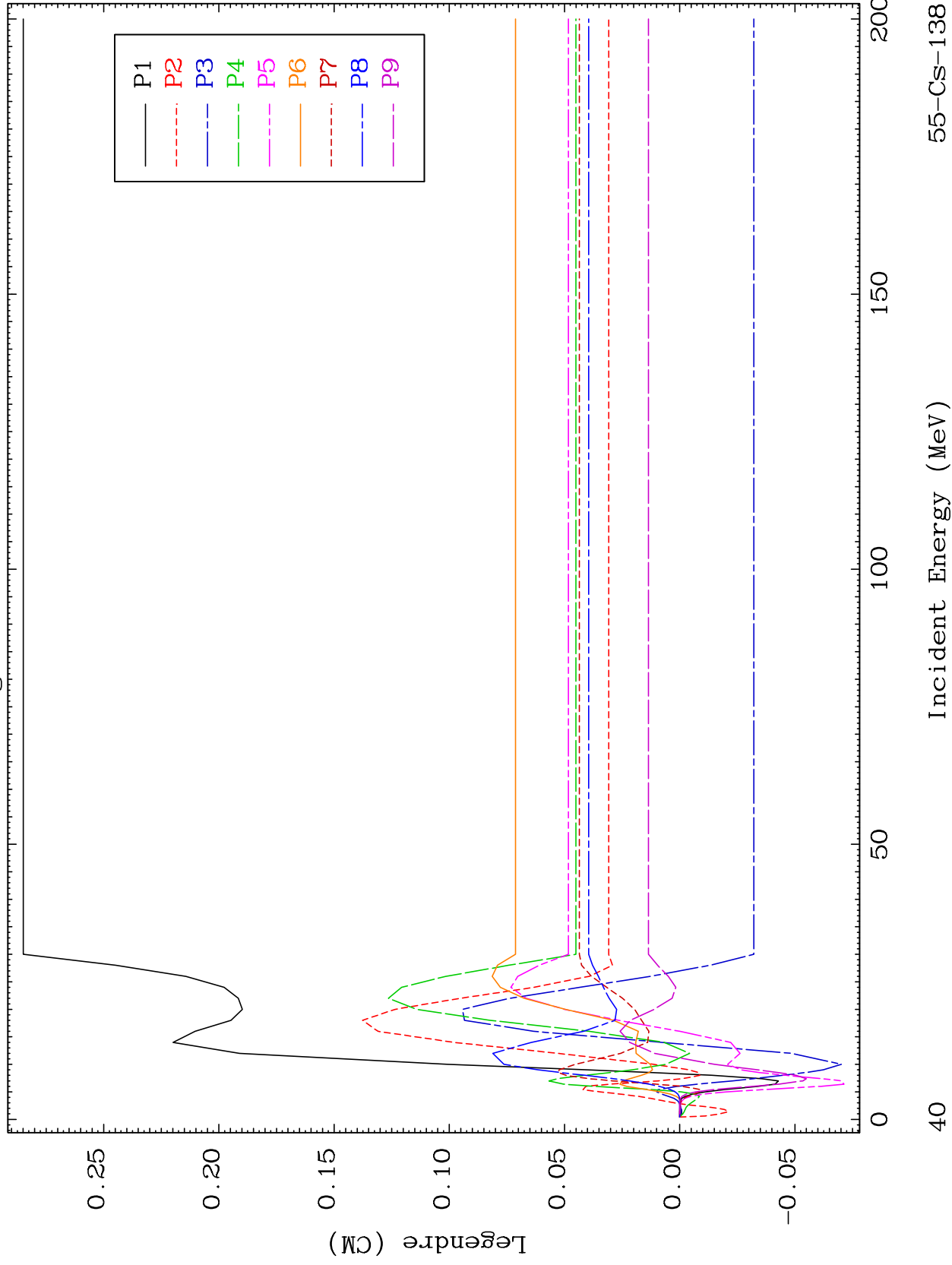
55-Cs-138



MAT 5540

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

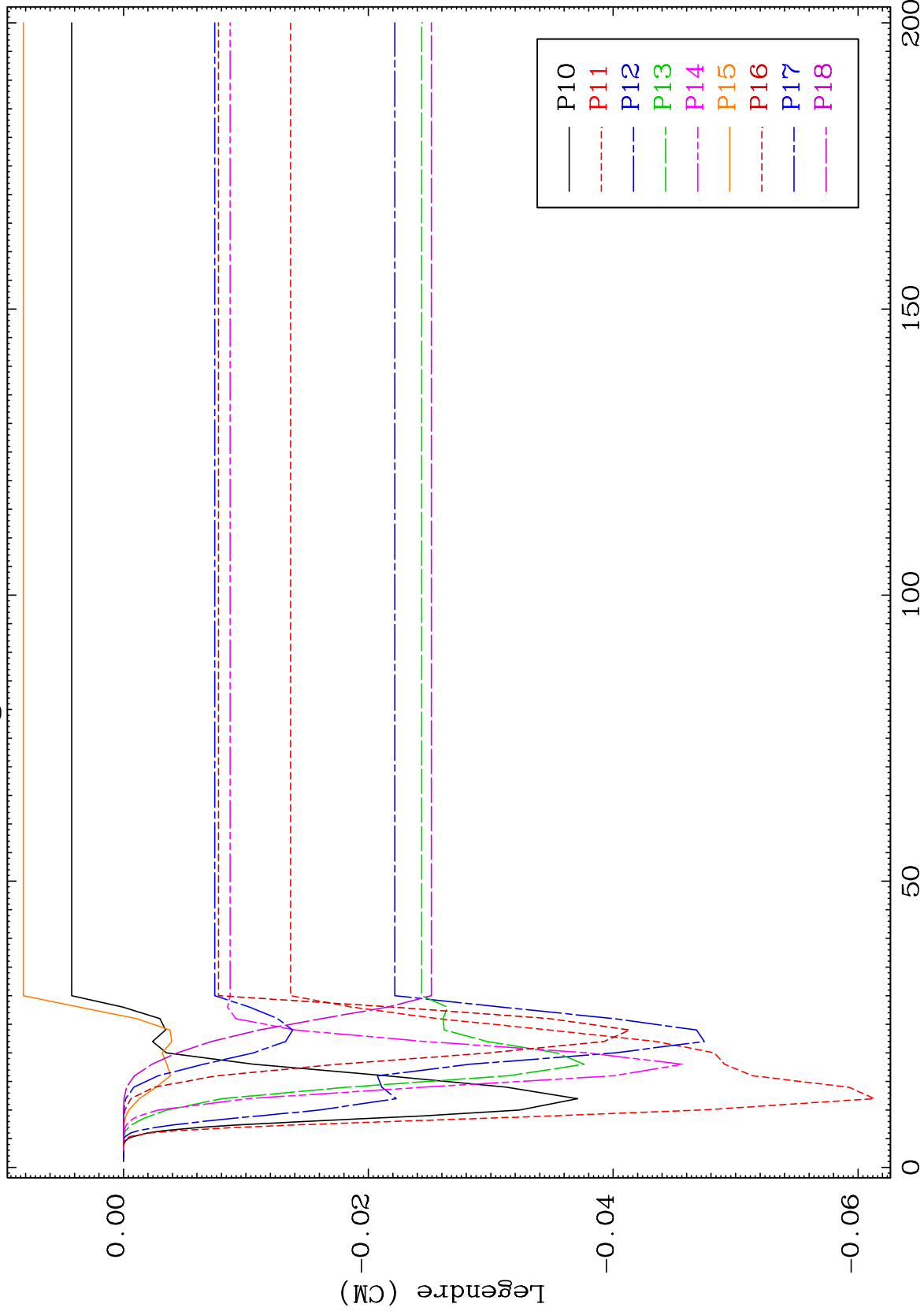
55-Cs-138



MAT 5540

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

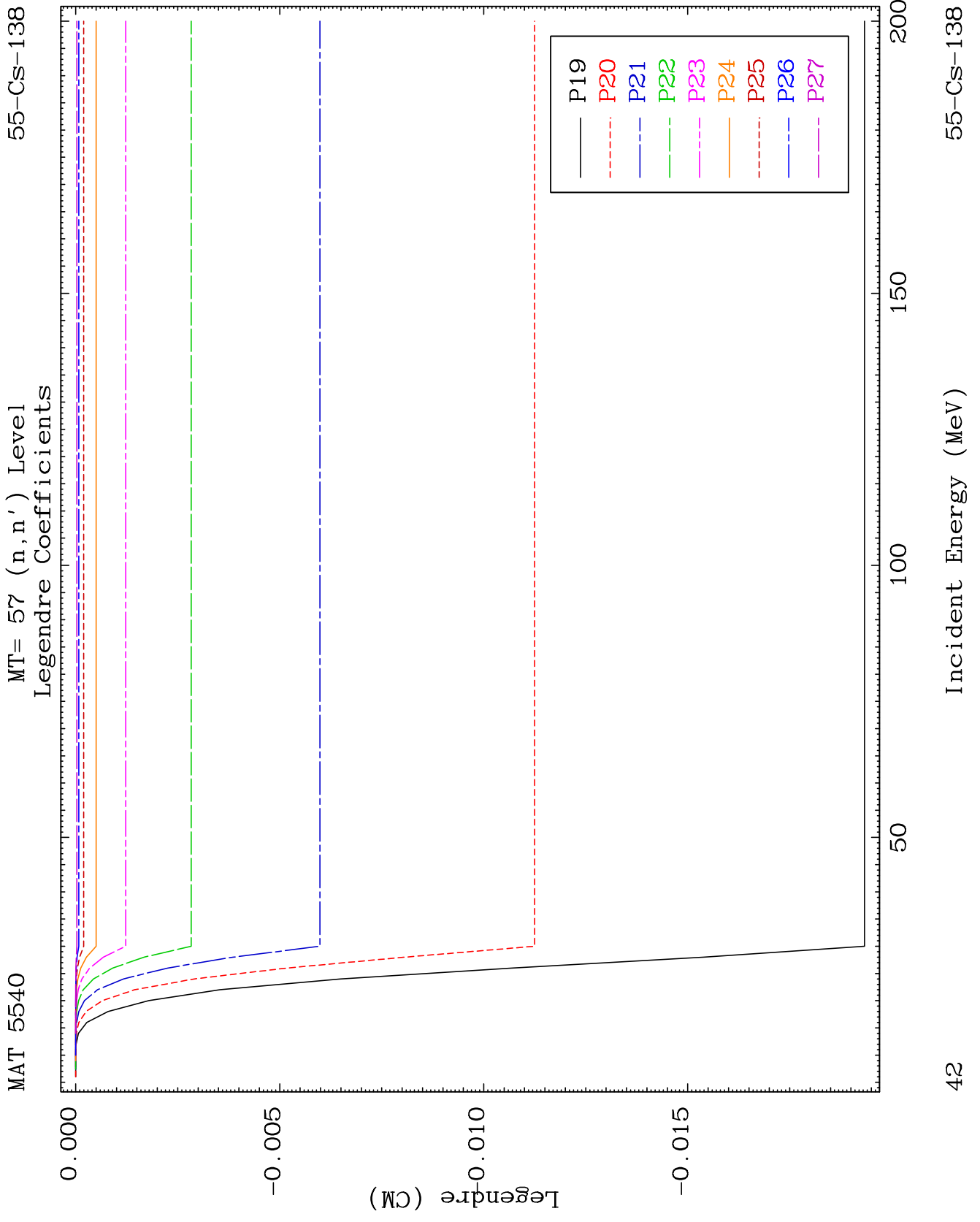
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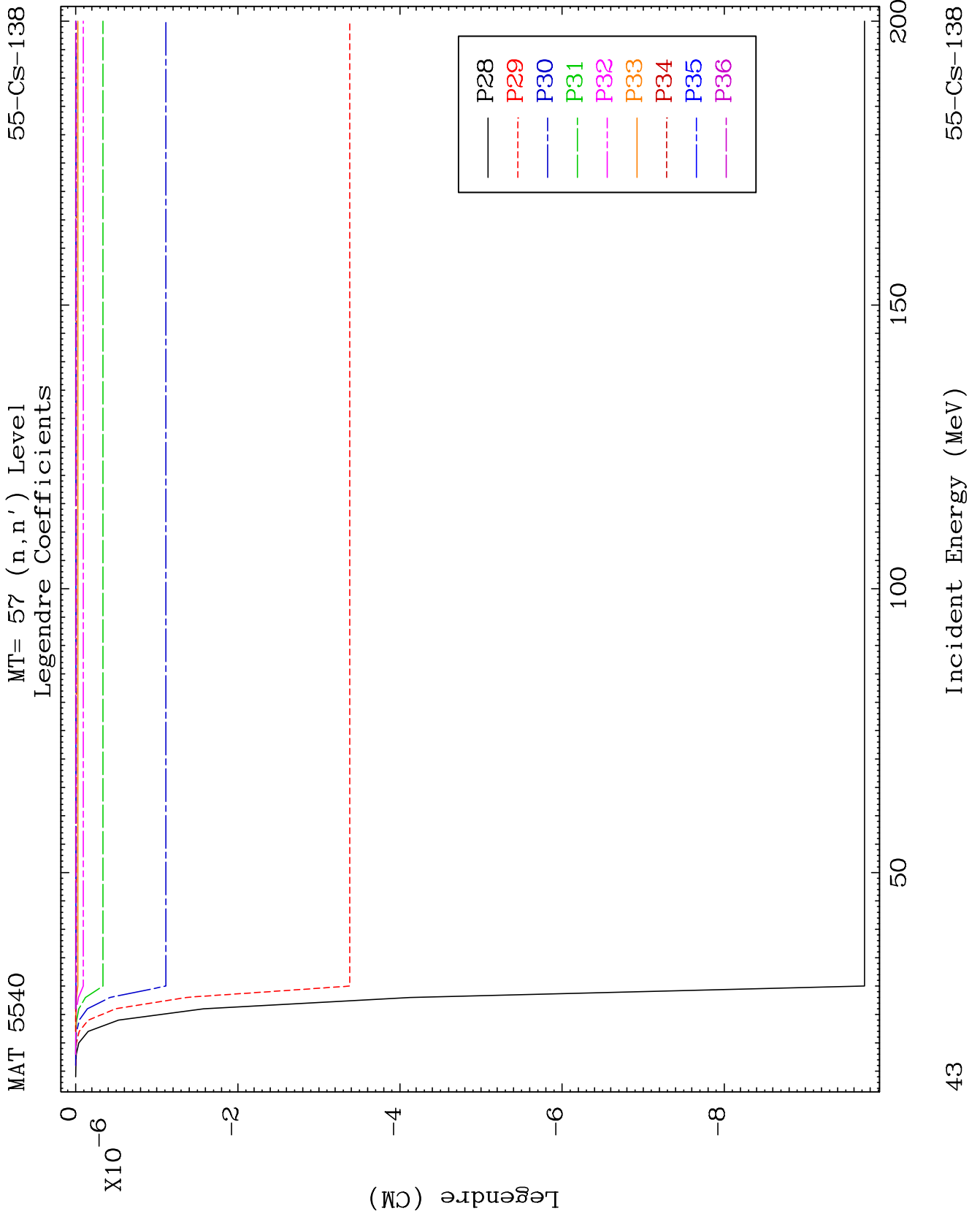


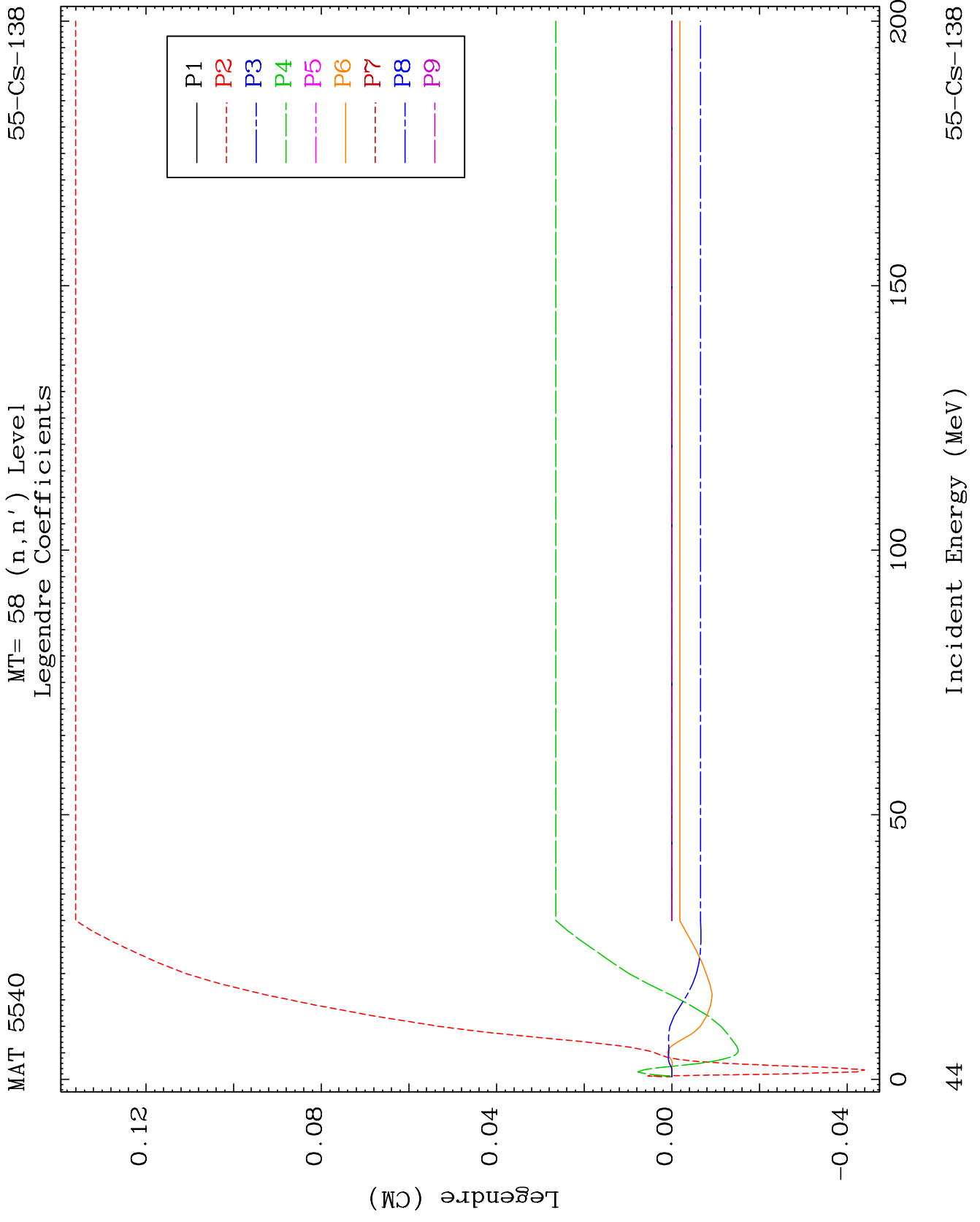
41

Incident Energy (MeV)

55-Cs-138



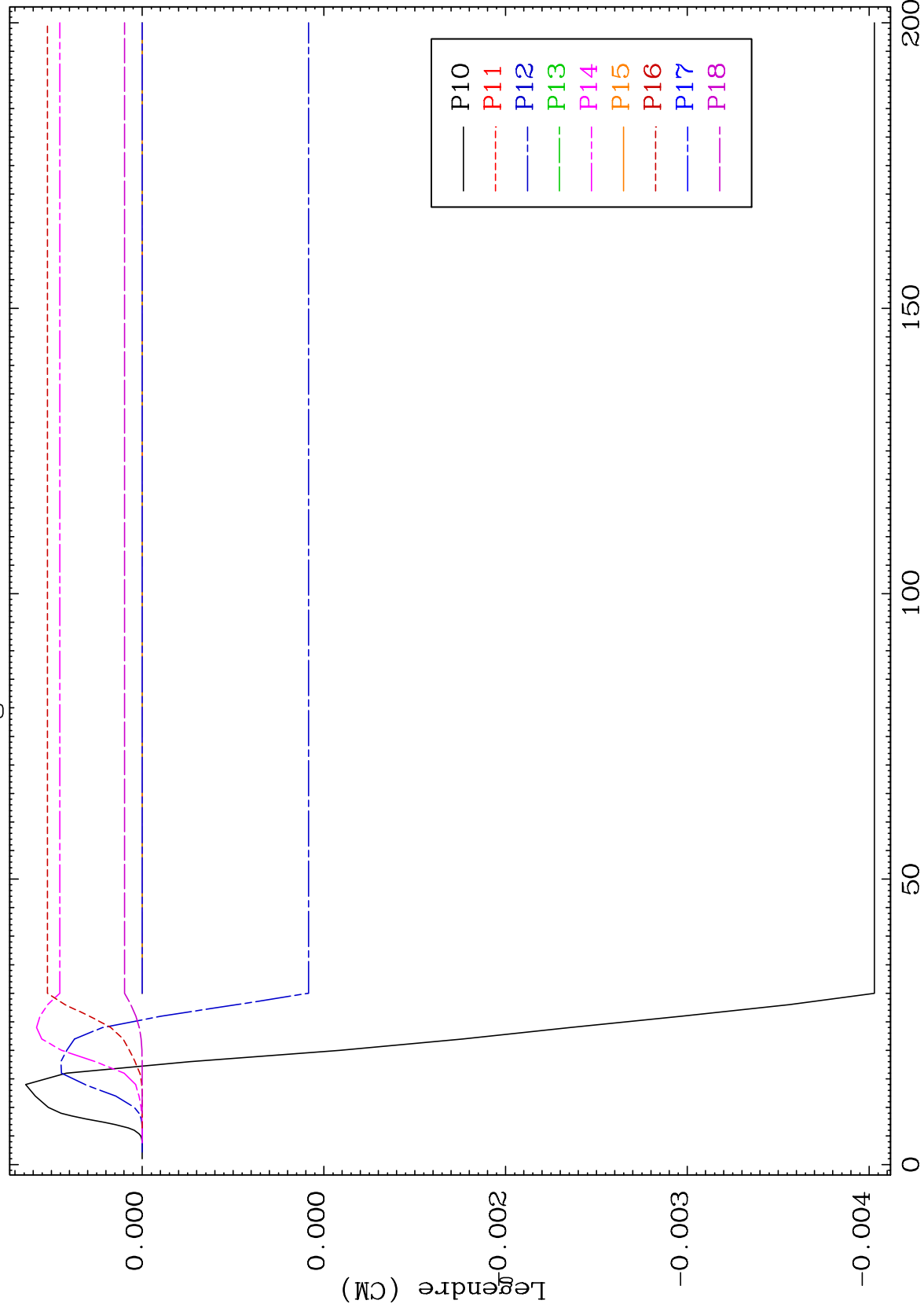




MAT 5540

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

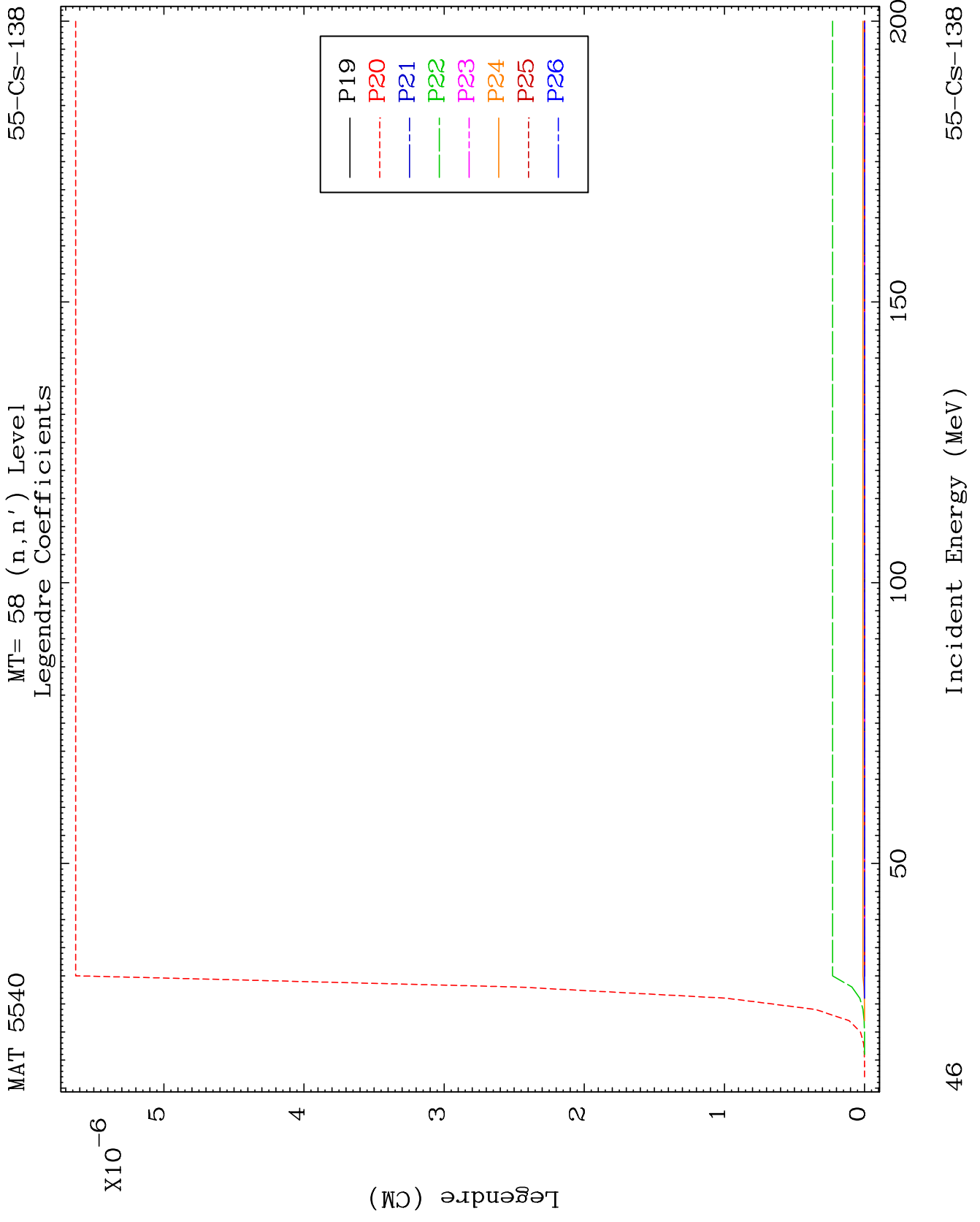
55-Cs-138

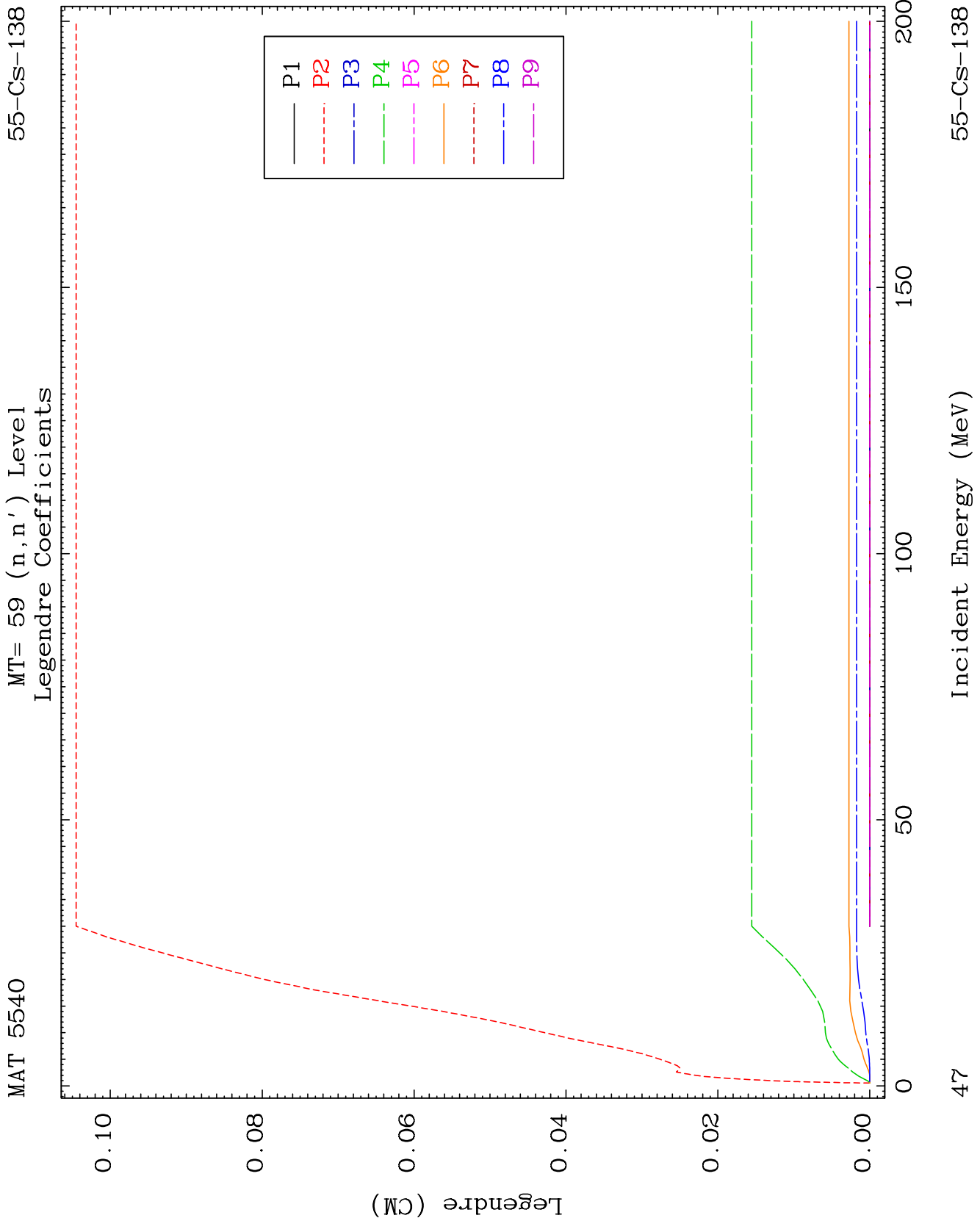


45

Incident Energy (MeV)

55-Cs-138





55-Cs-138

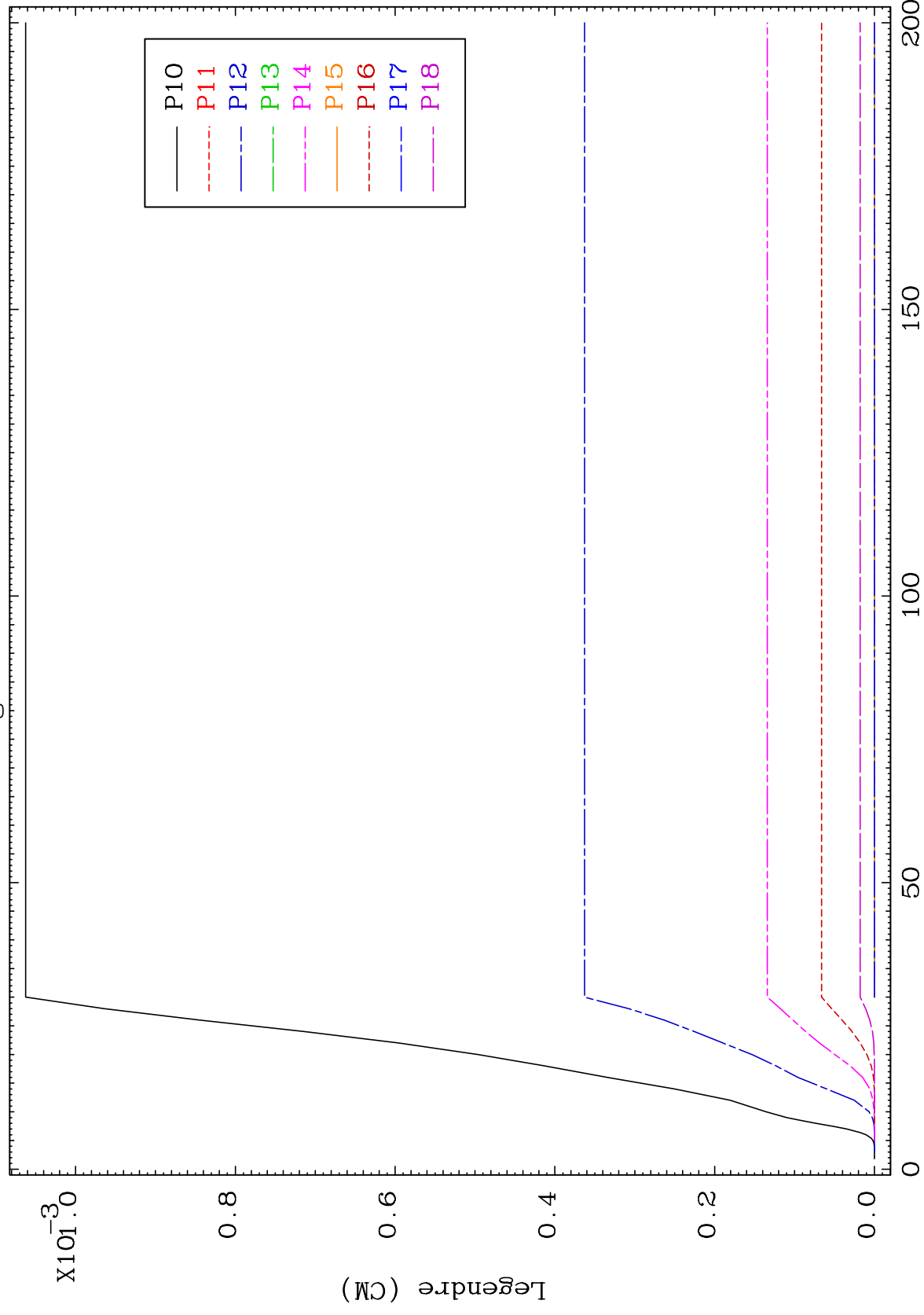
Incident Energy (MeV)

47

MAT 5540

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

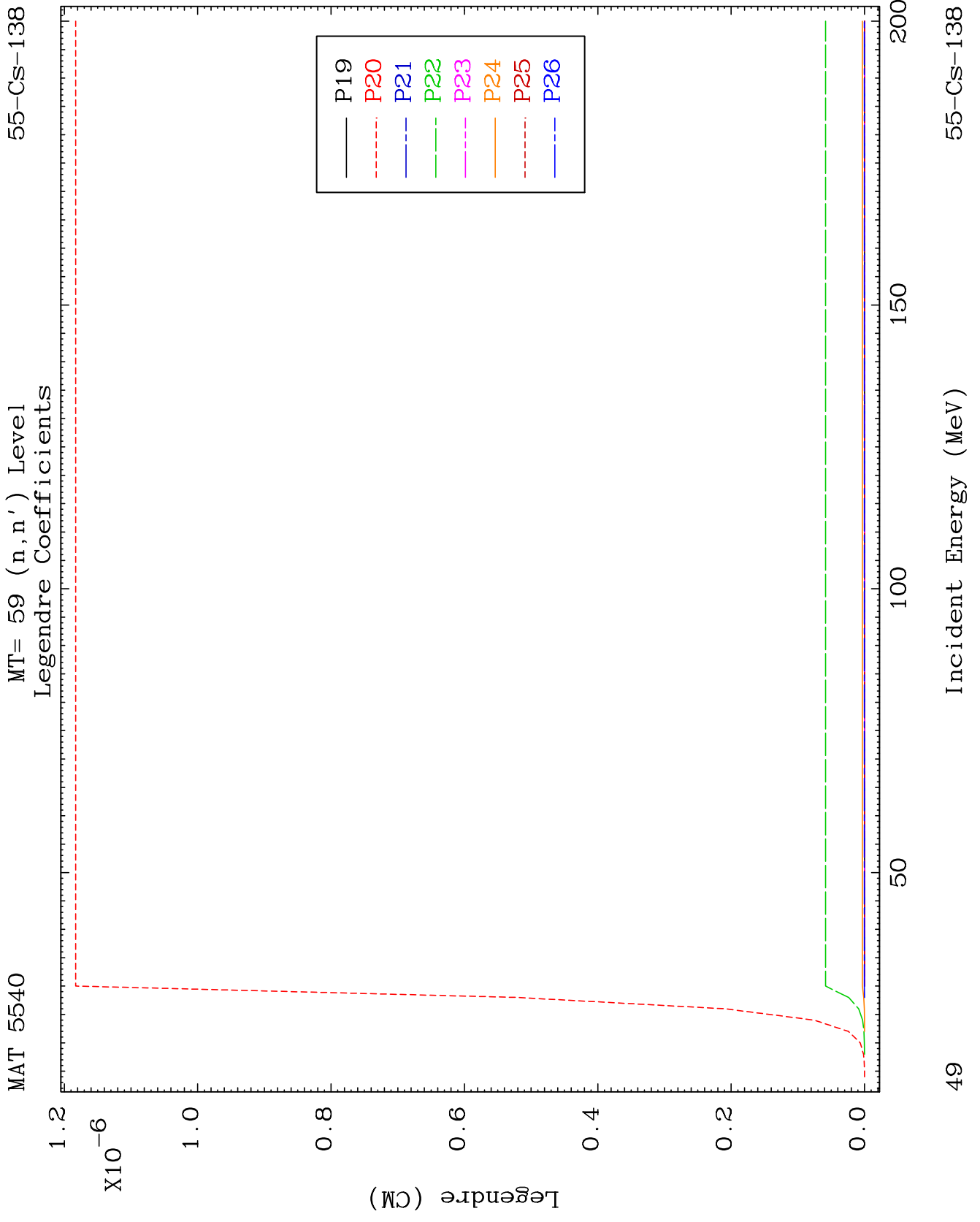
55-Cs-138



55-Cs-138

Incident Energy (MeV)

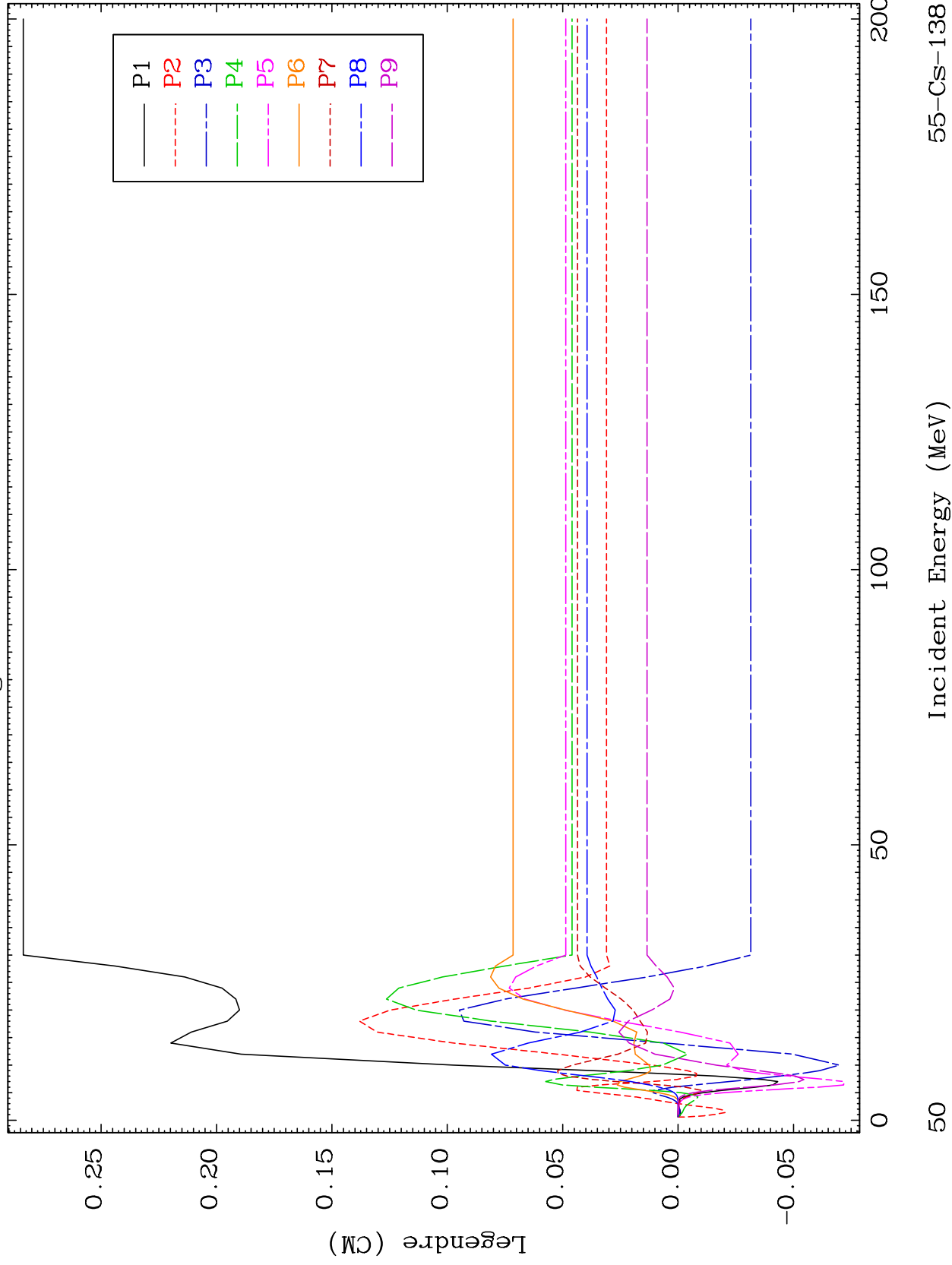
48



MAT 5540

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

55-Cs-138



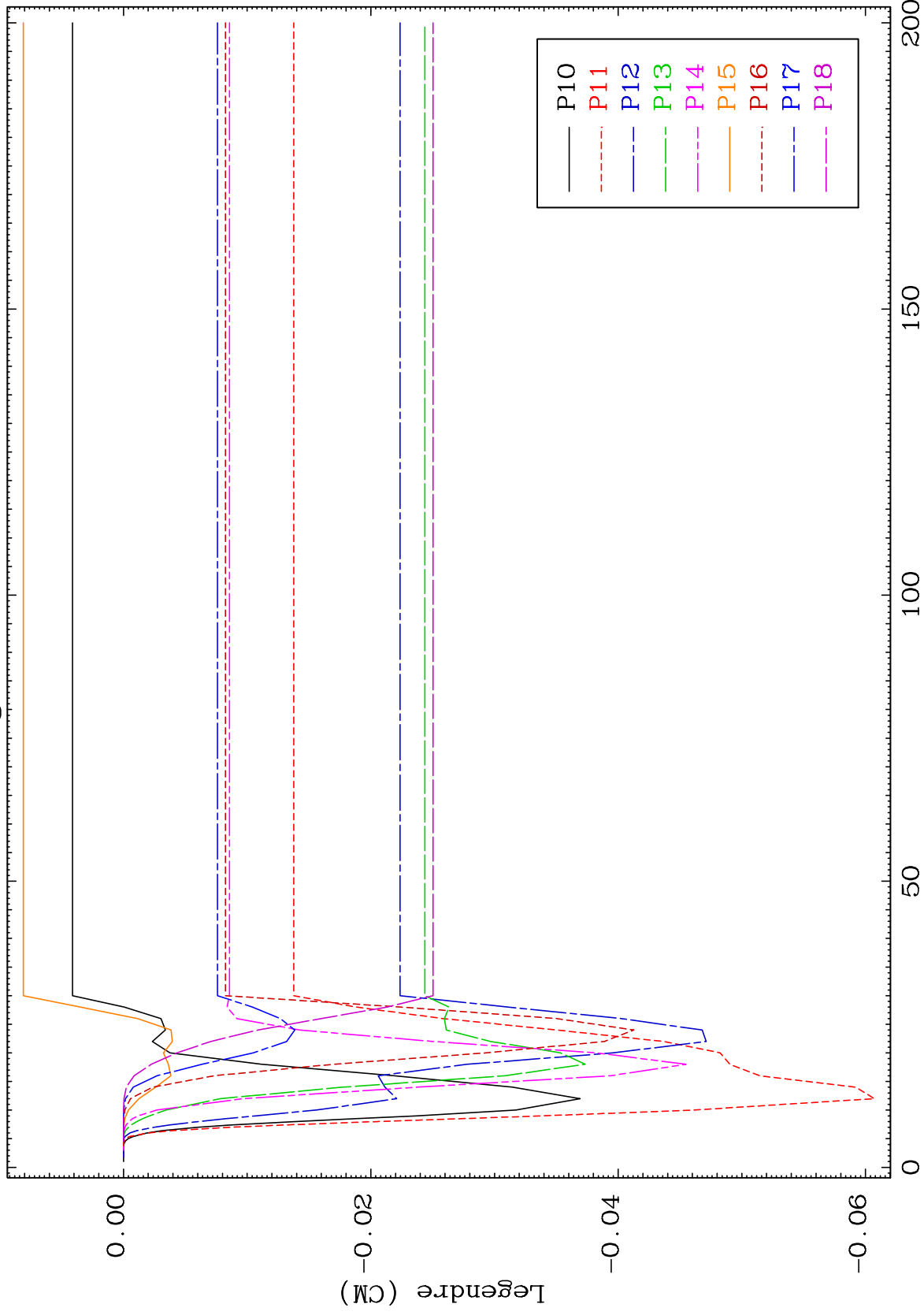
55-Cs-138

Incident Energy (MeV)

MAT 5540

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

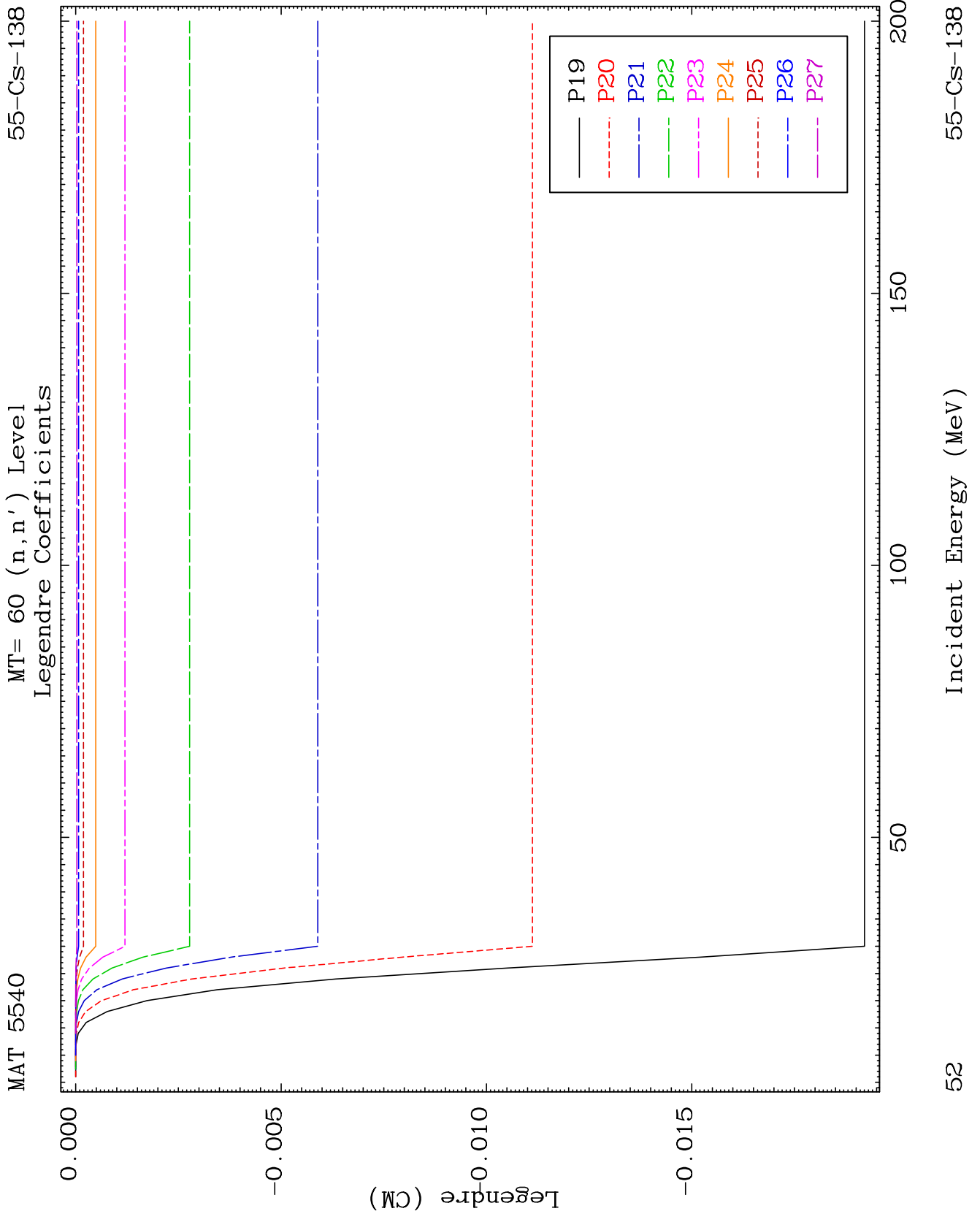
55-Cs-138

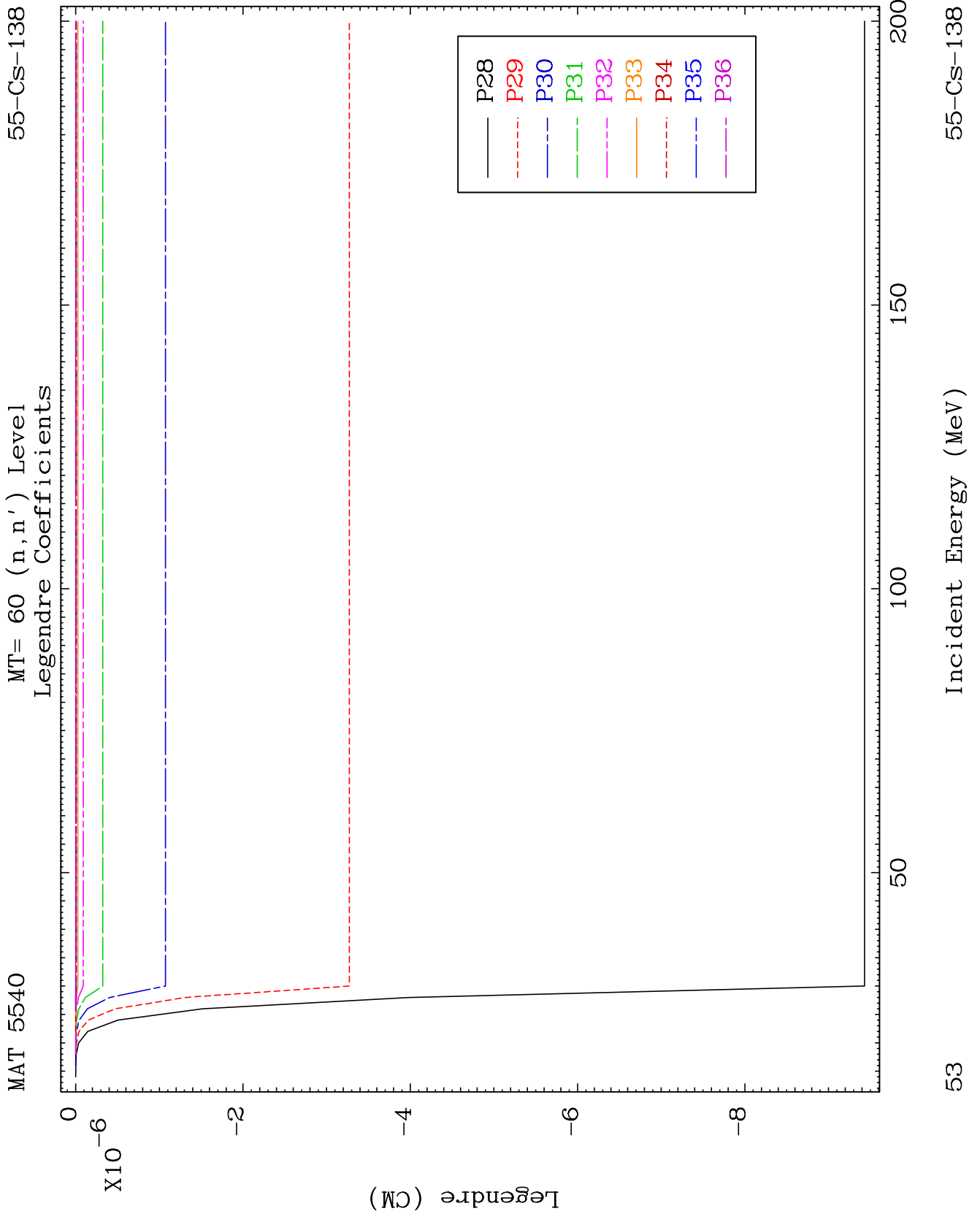


51

Incident Energy (MeV)

55-Cs-138

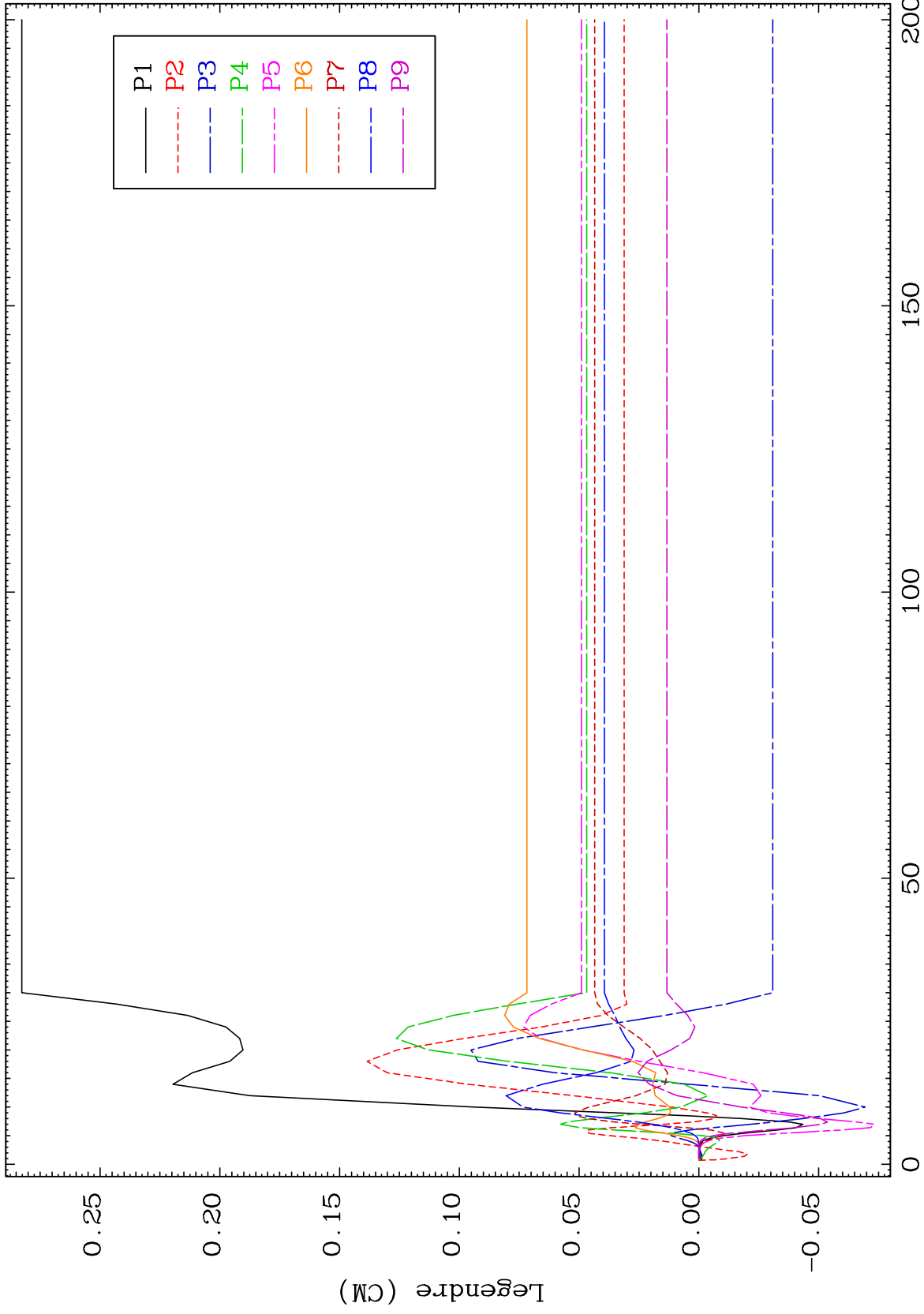




MAT 5540

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

55-Cs-138



55-Cs-138

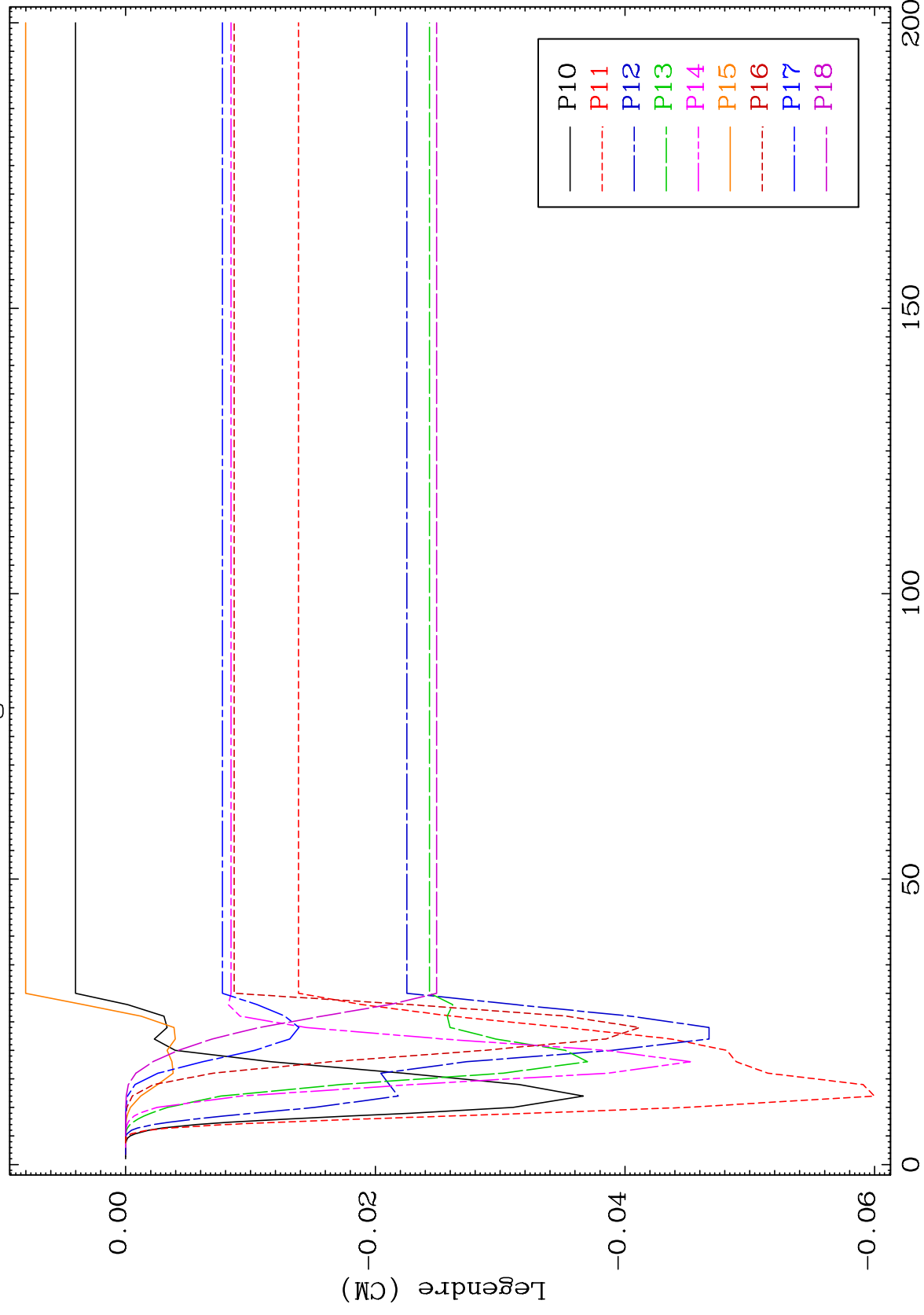
Incident Energy (MeV)

54

MAT 5540

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

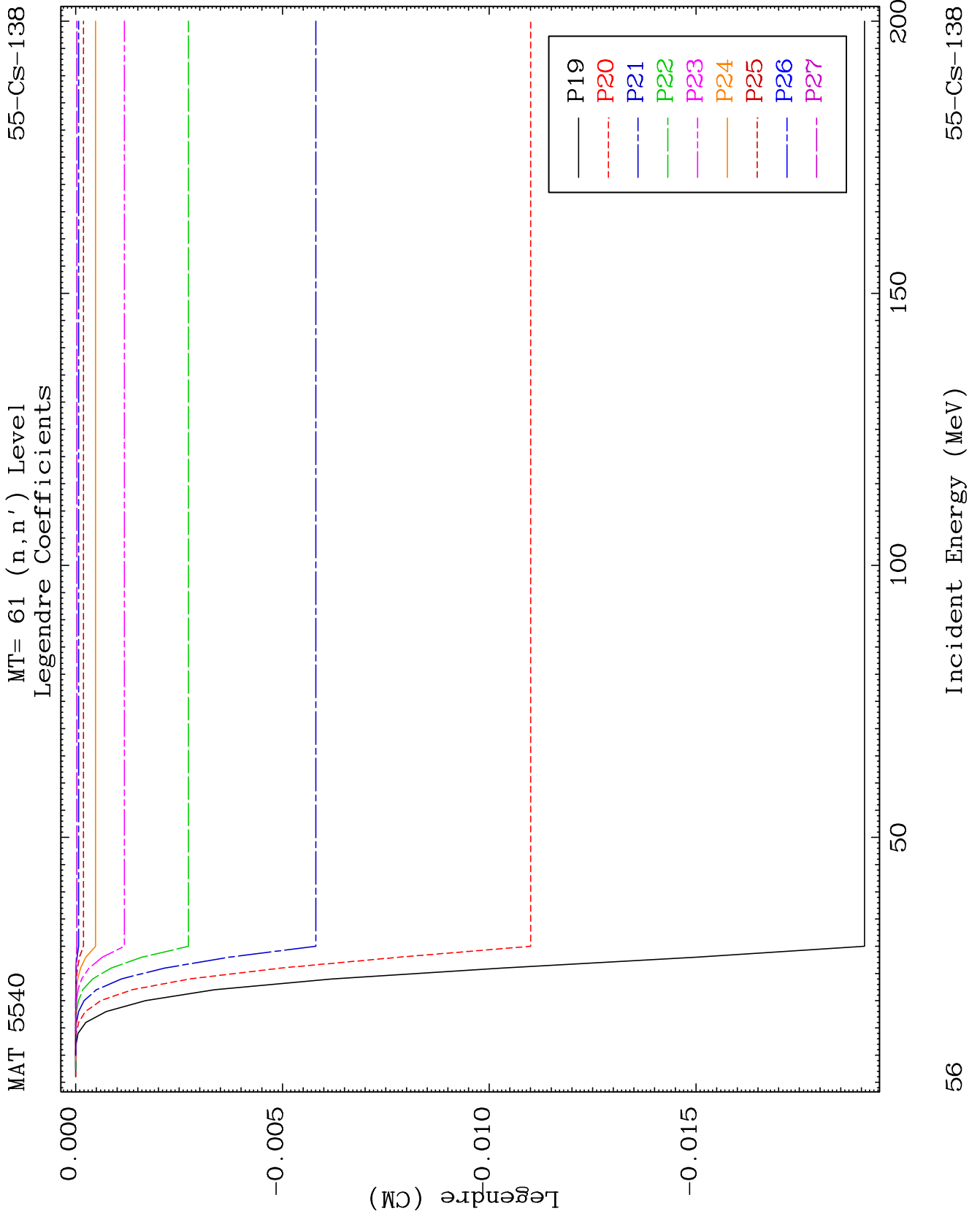
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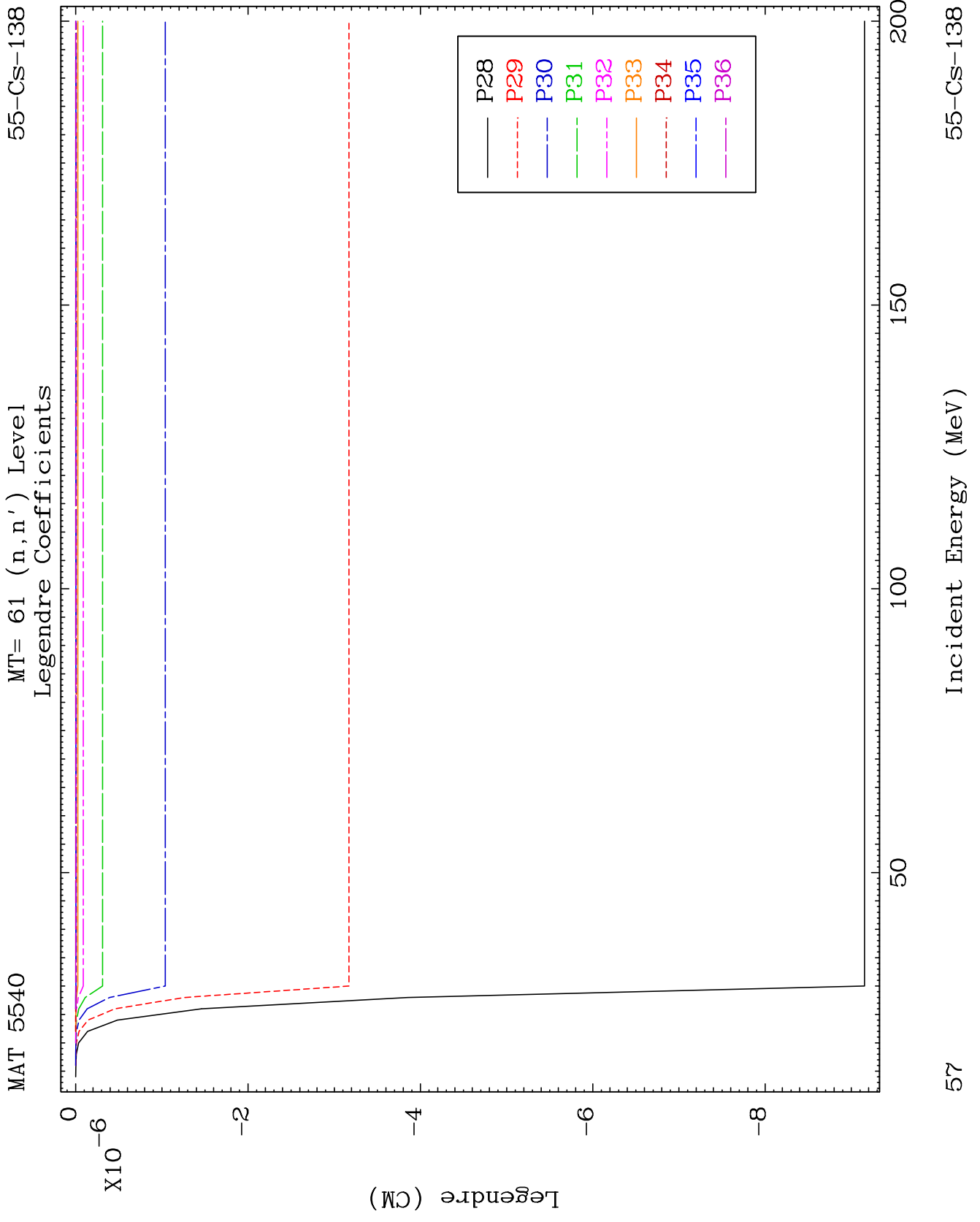


55-Cs-138

Incident Energy (MeV)

55

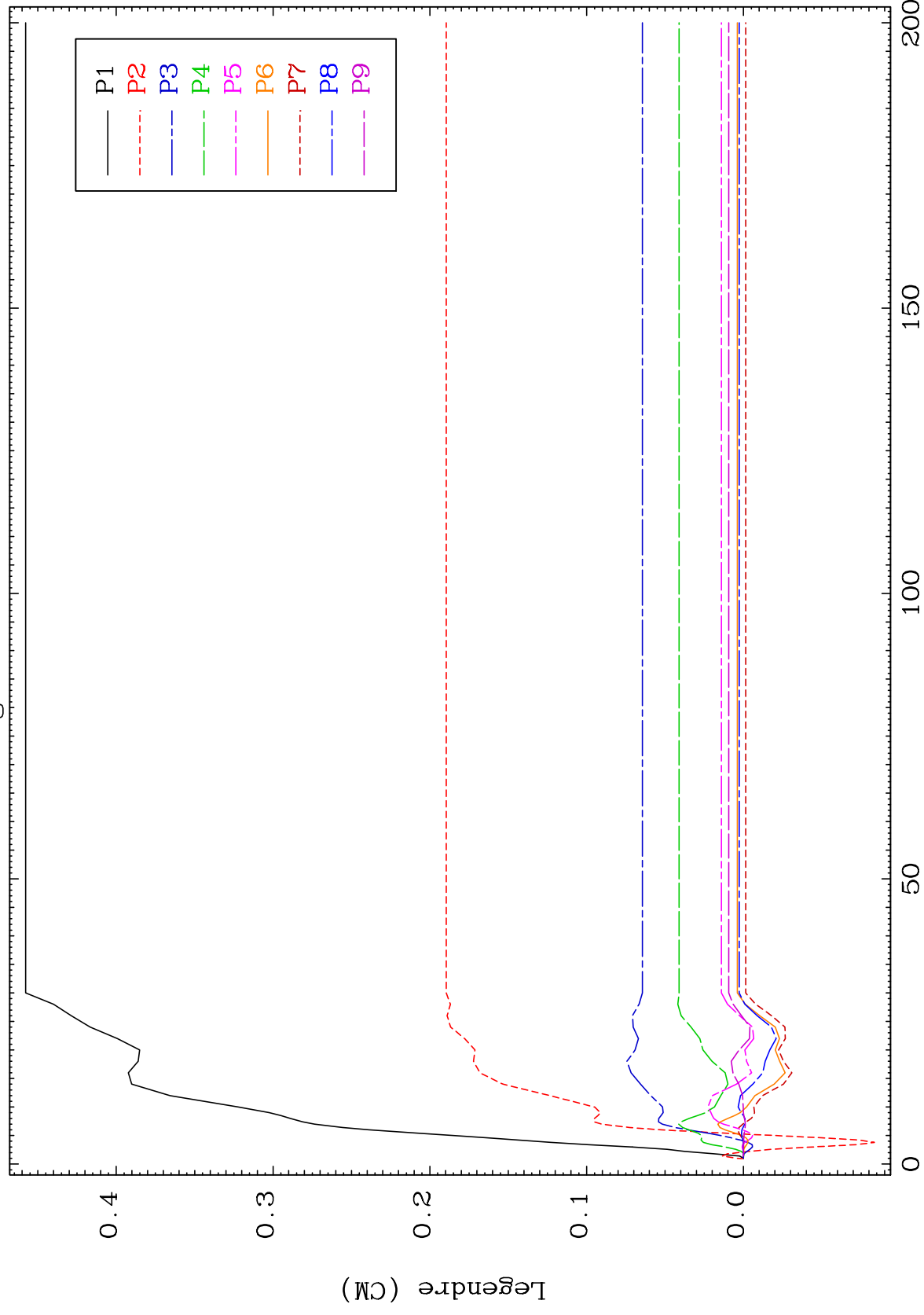




MAT 5540

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

55-Cs-138



55-Cs-138

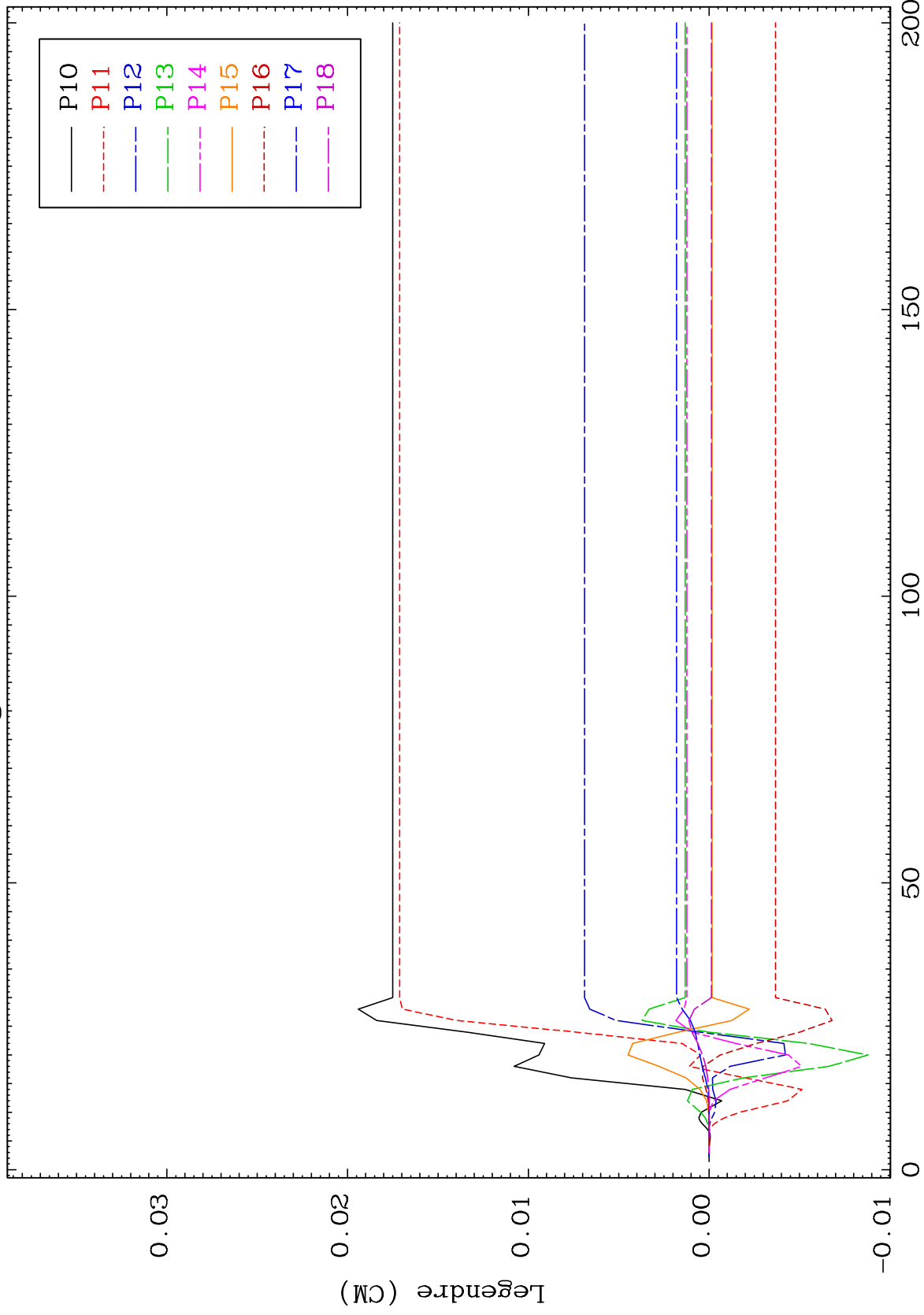
Incident Energy (MeV)

58

MAT 5540

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

55-Cs-138



59

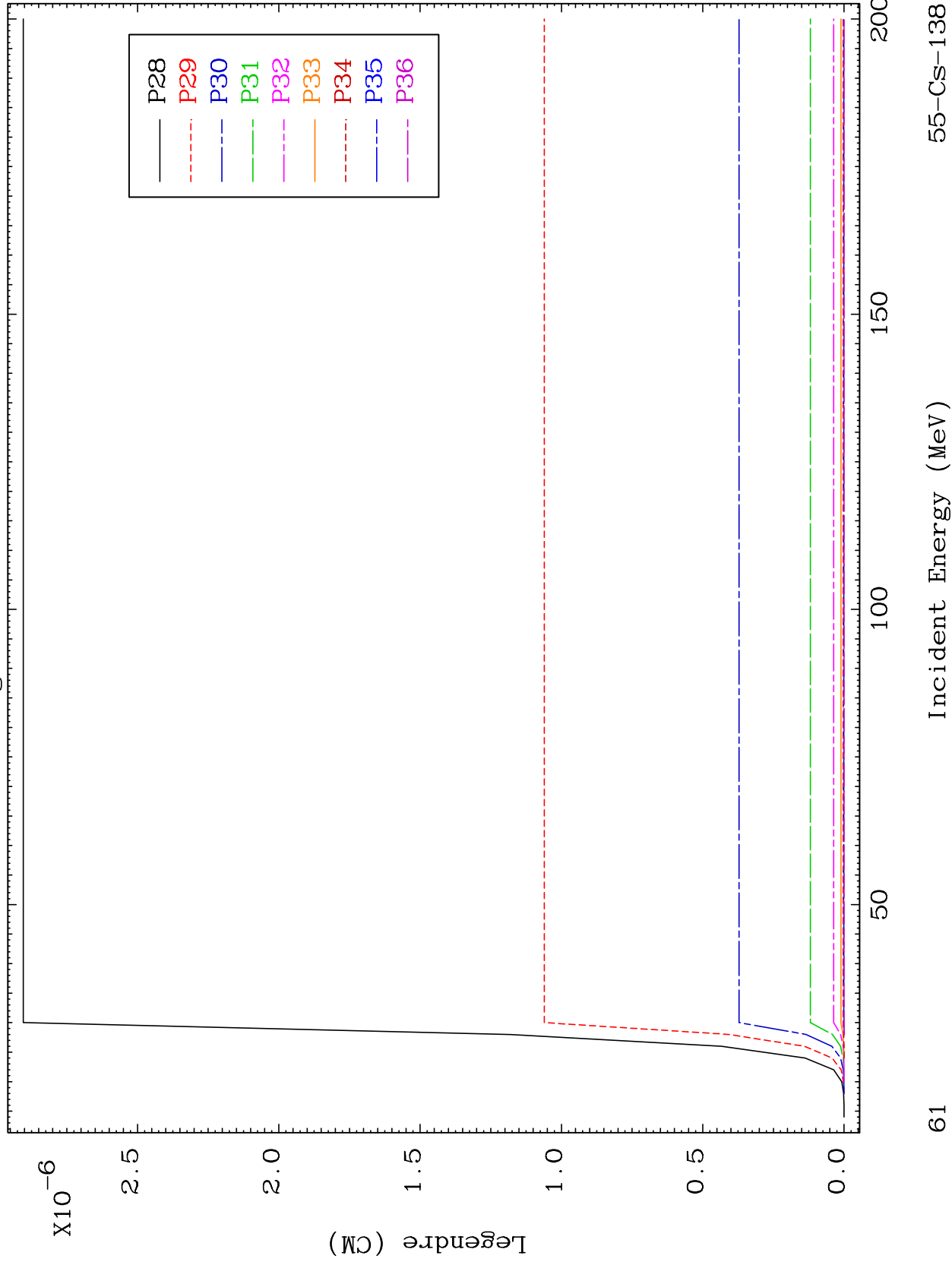
Incident Energy (MeV)

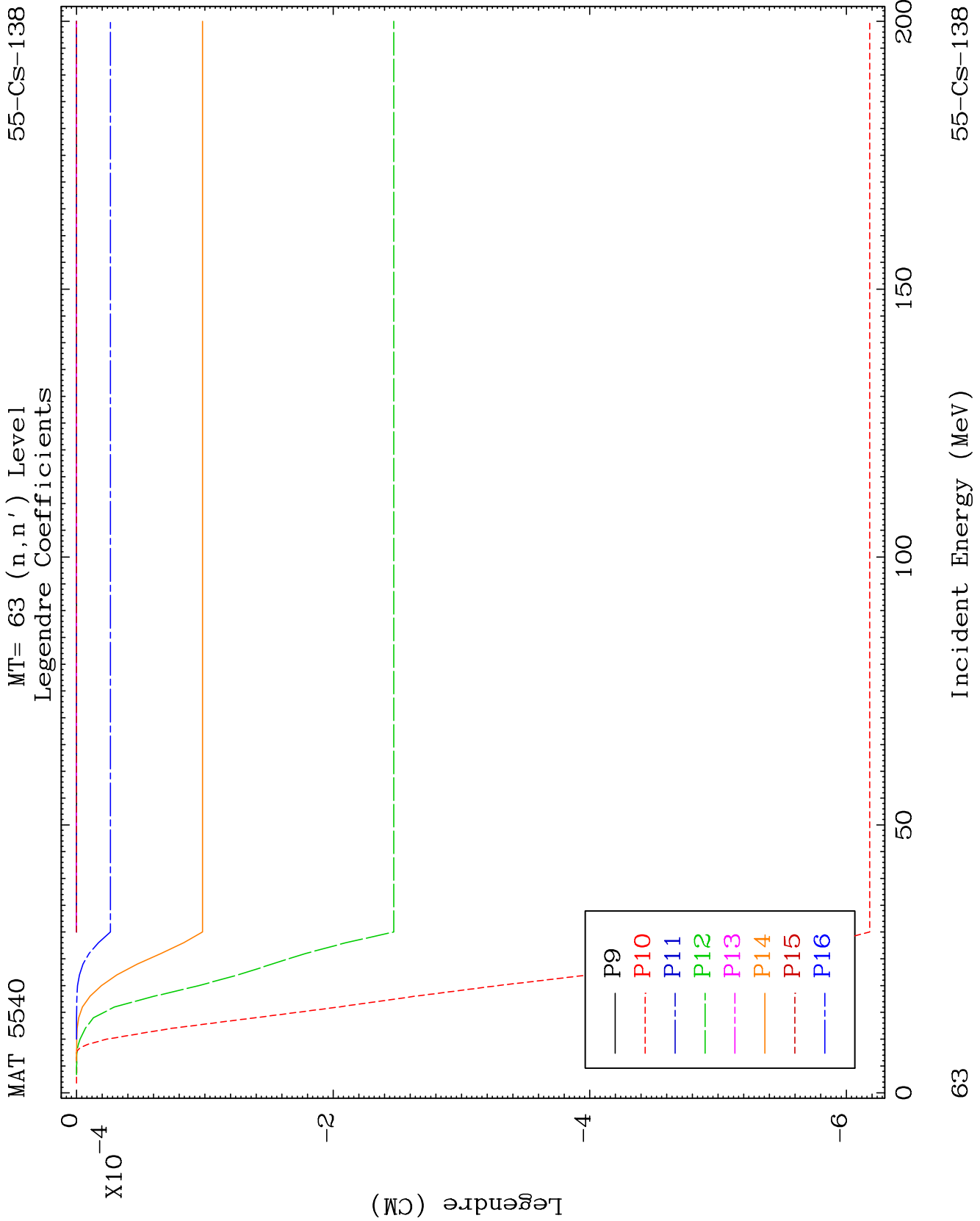
55-Cs-138

MAT 5540

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

55-Cs-138

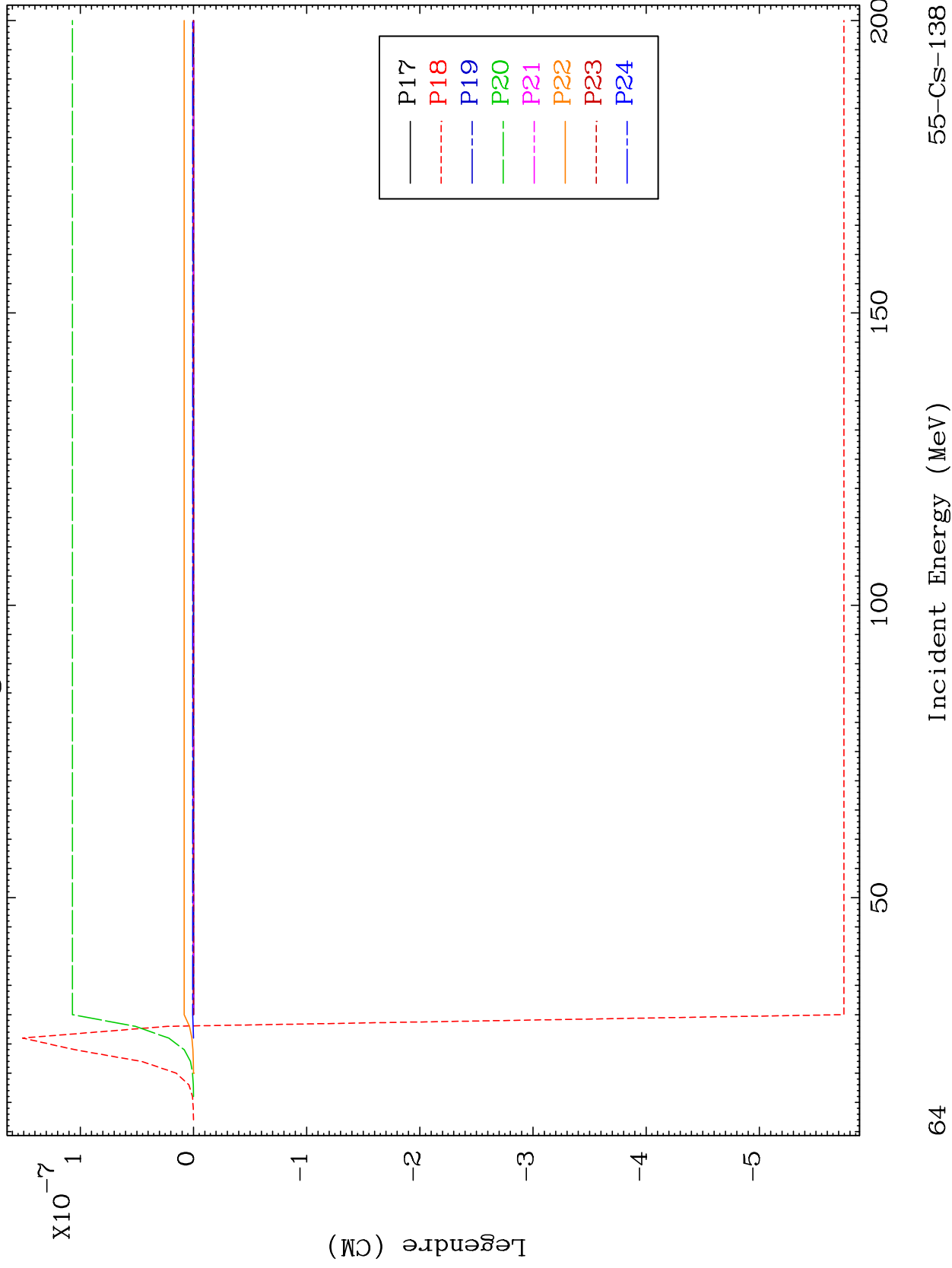




MAT 5540

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

55-Cs-138



64

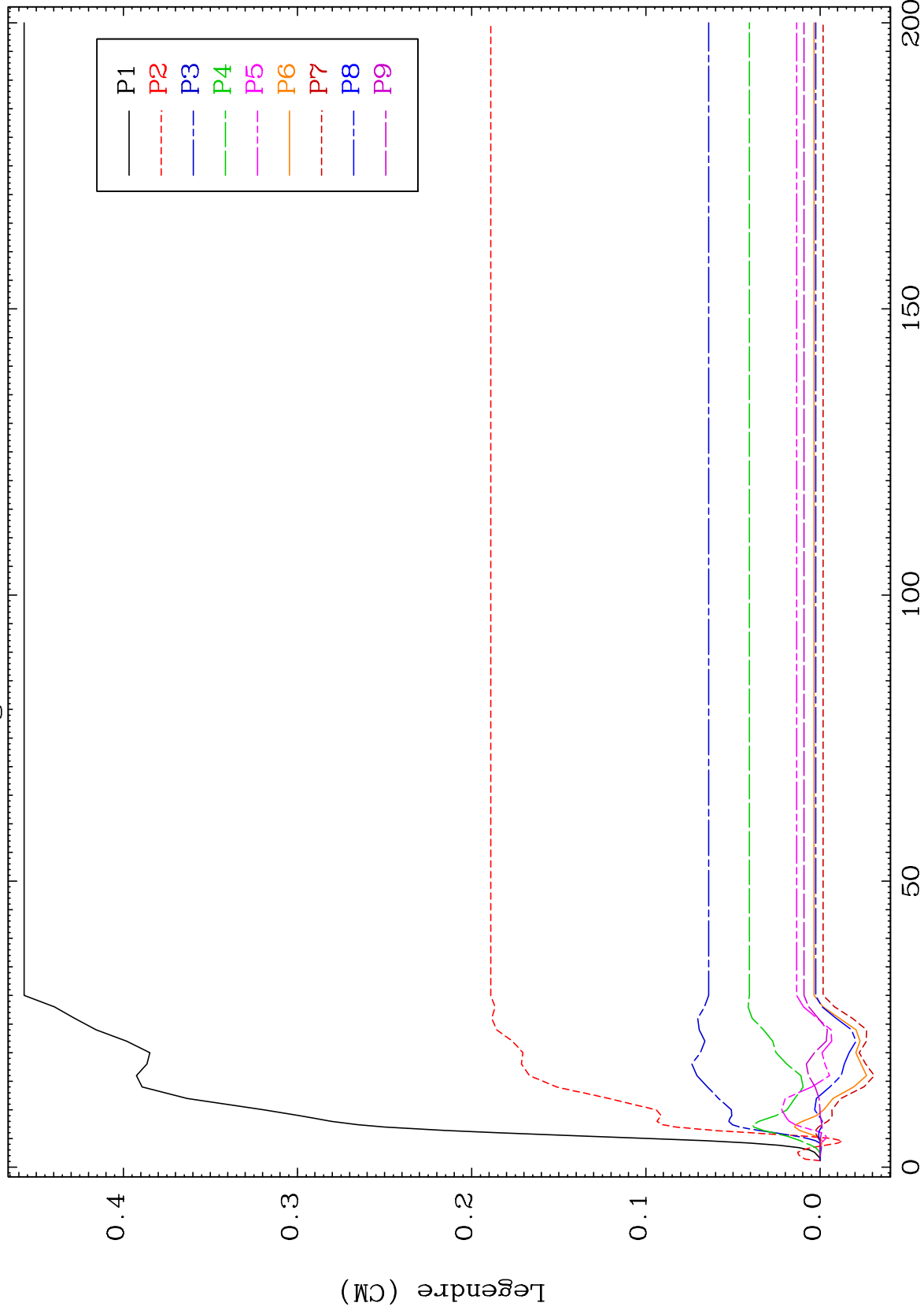
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

55-Cs-138



65

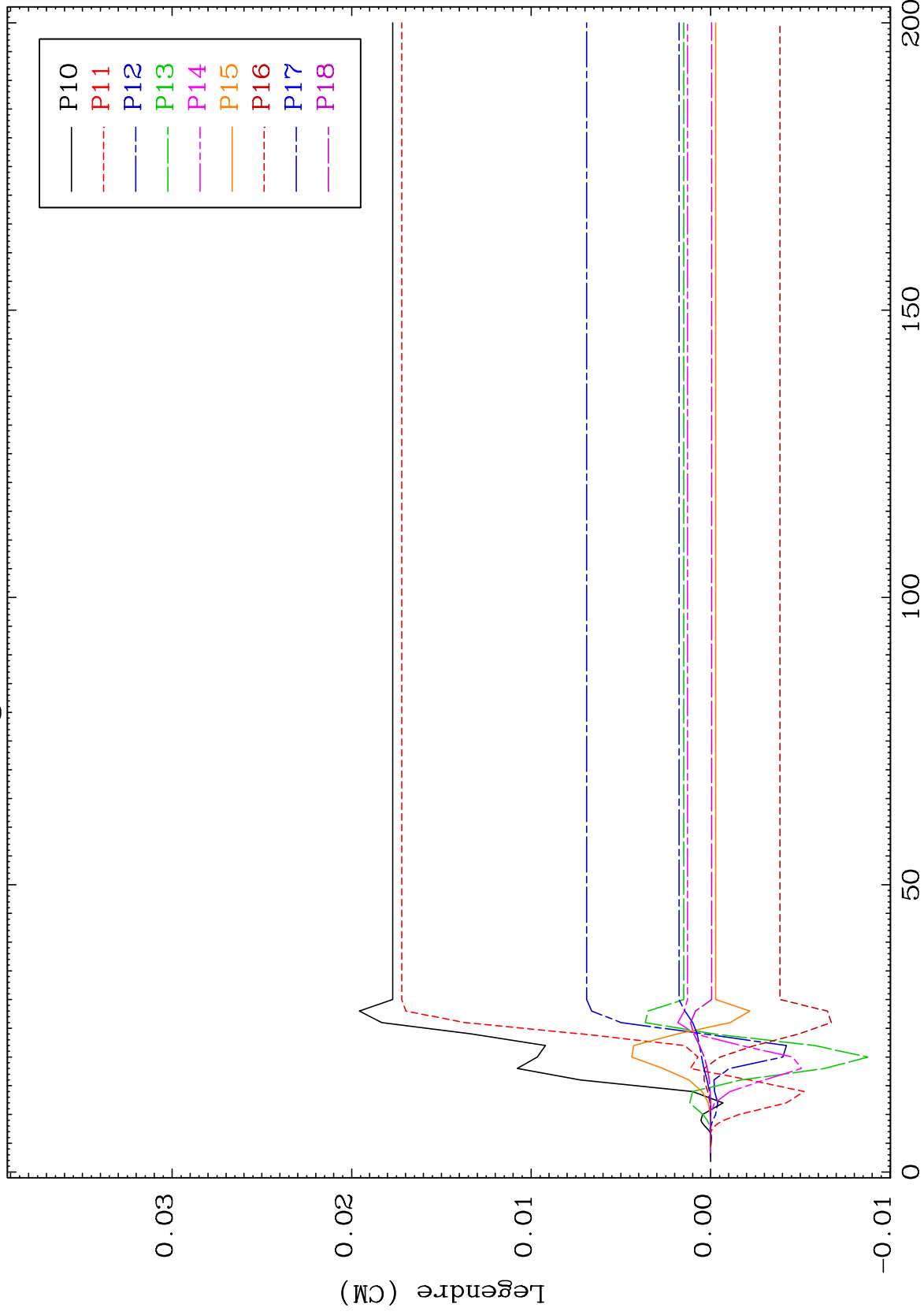
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

55-Cs-138



66

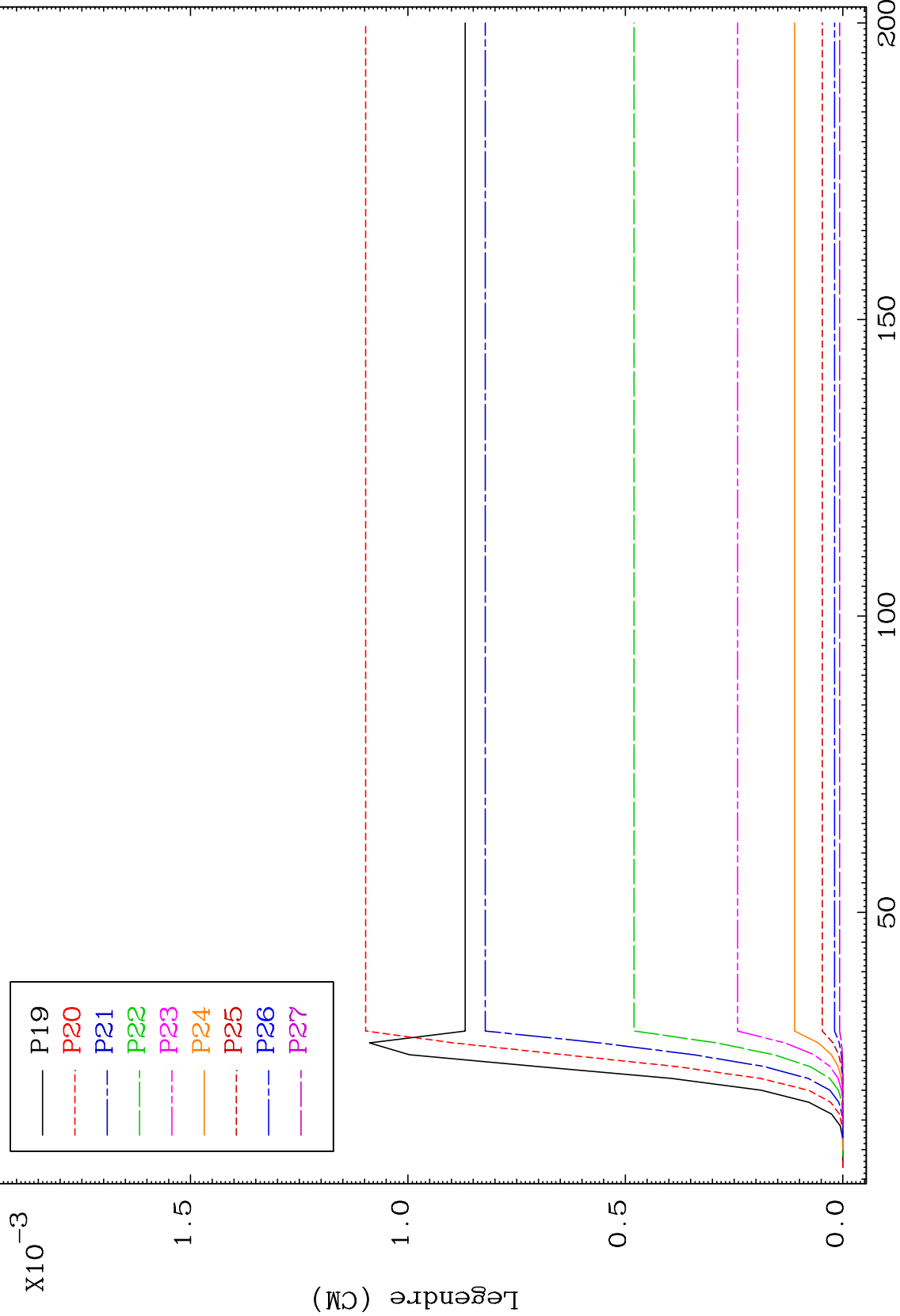
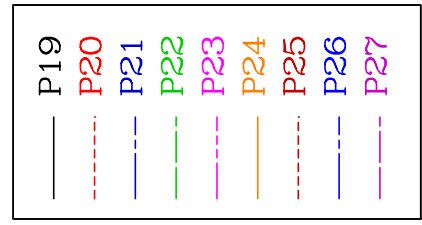
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

55-Cs-138



67

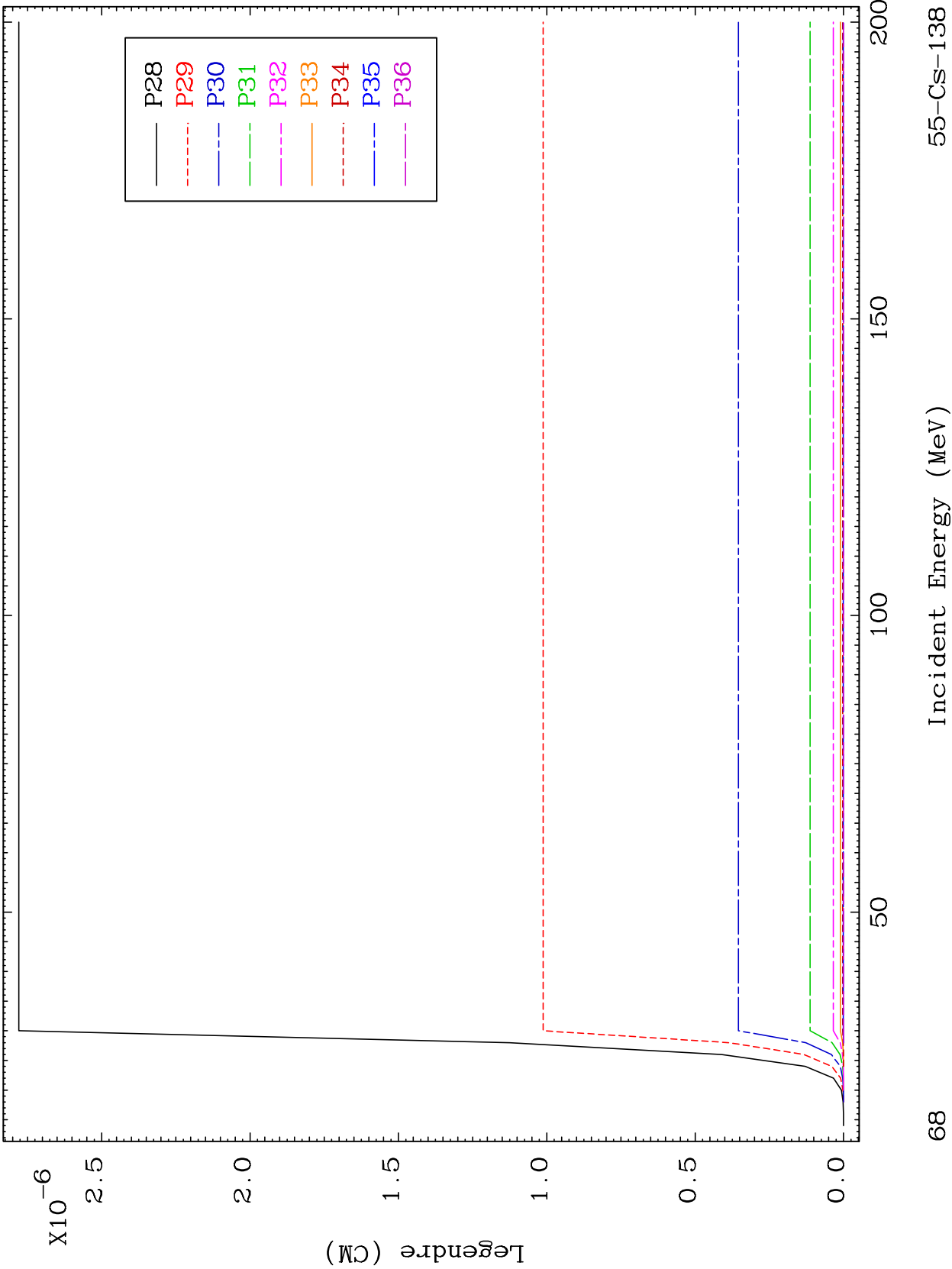
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

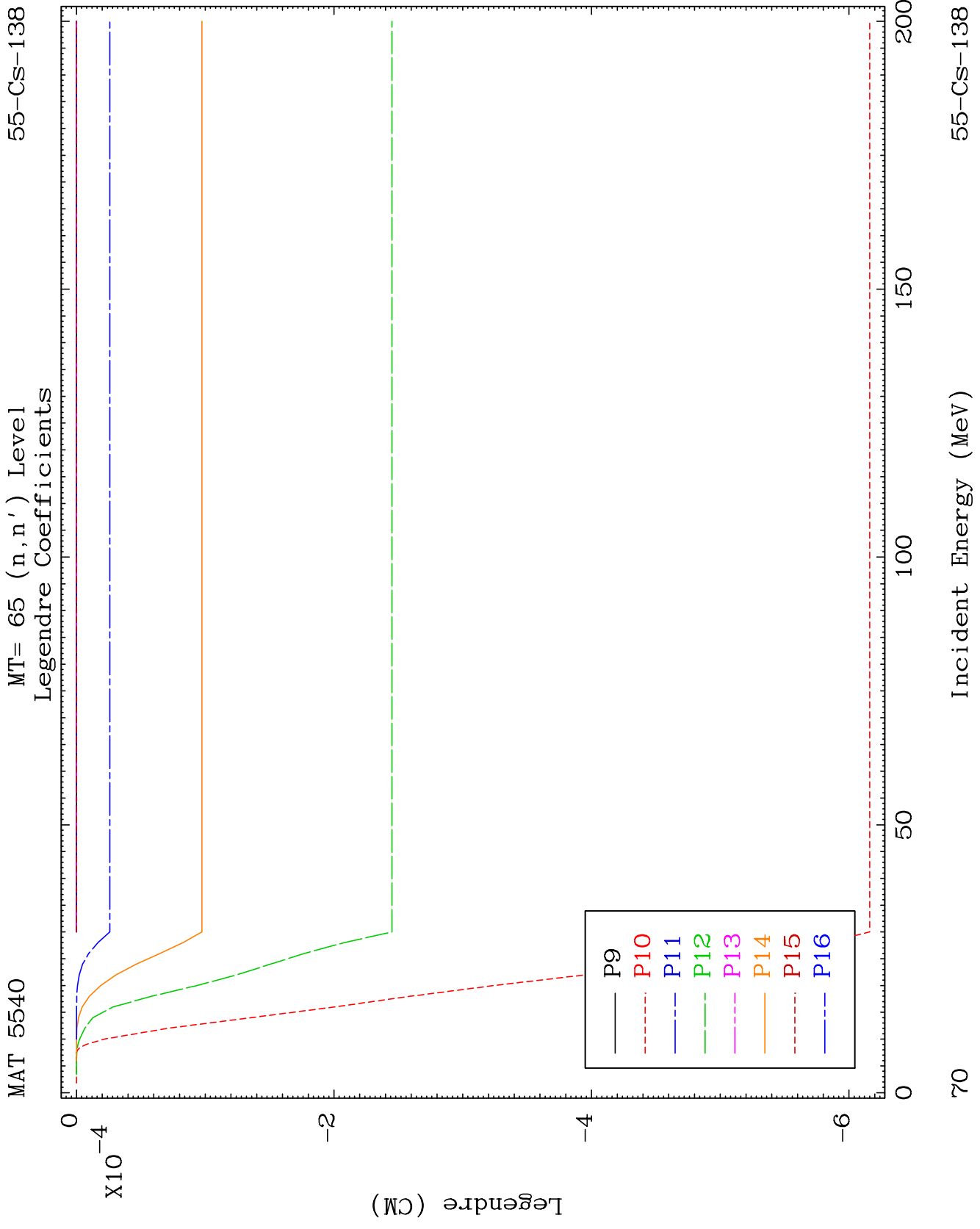
55-Cs-138



68

Incident Energy (MeV)

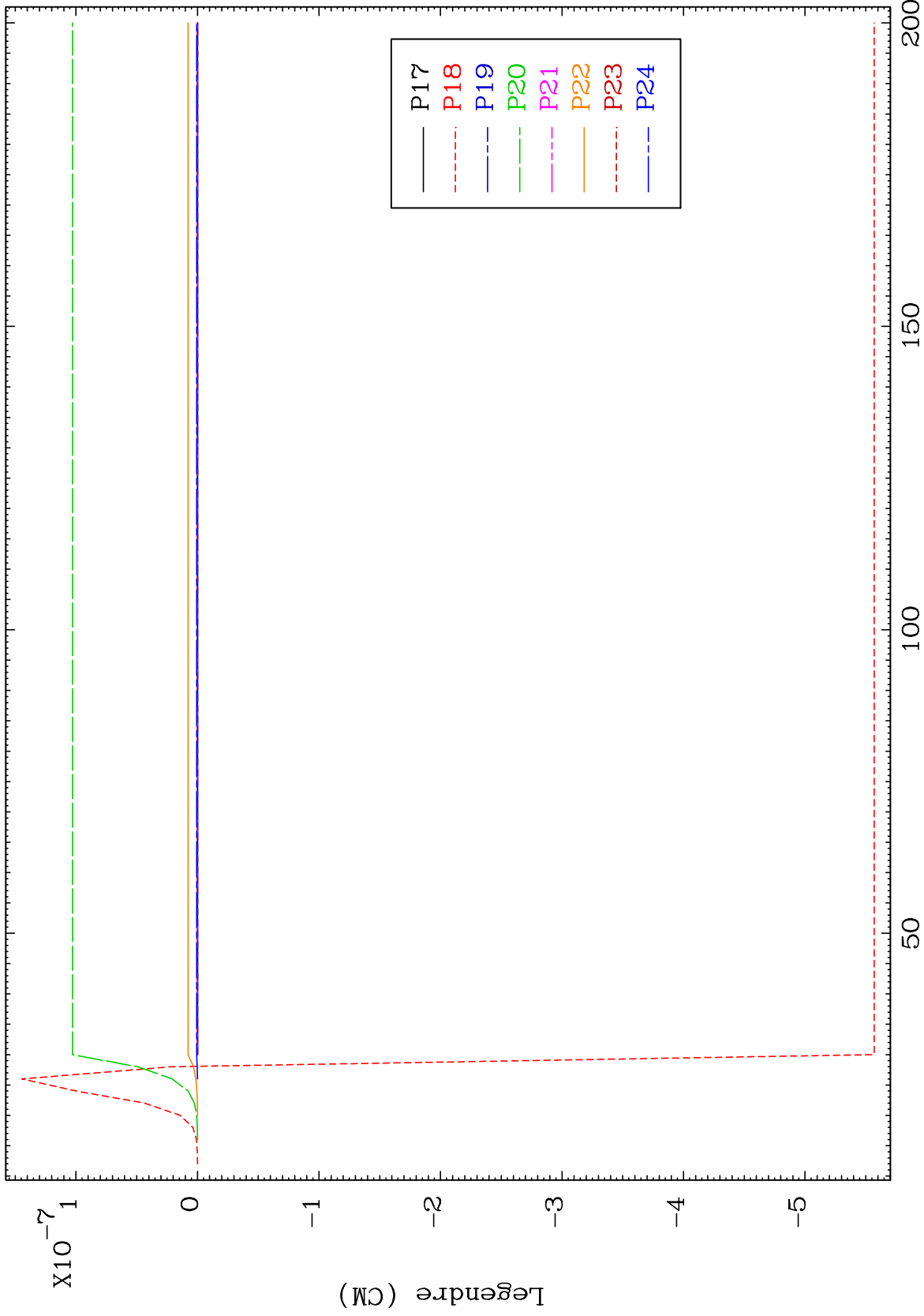
55-Cs-138



MAT 5540

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

55-Cs-138



71

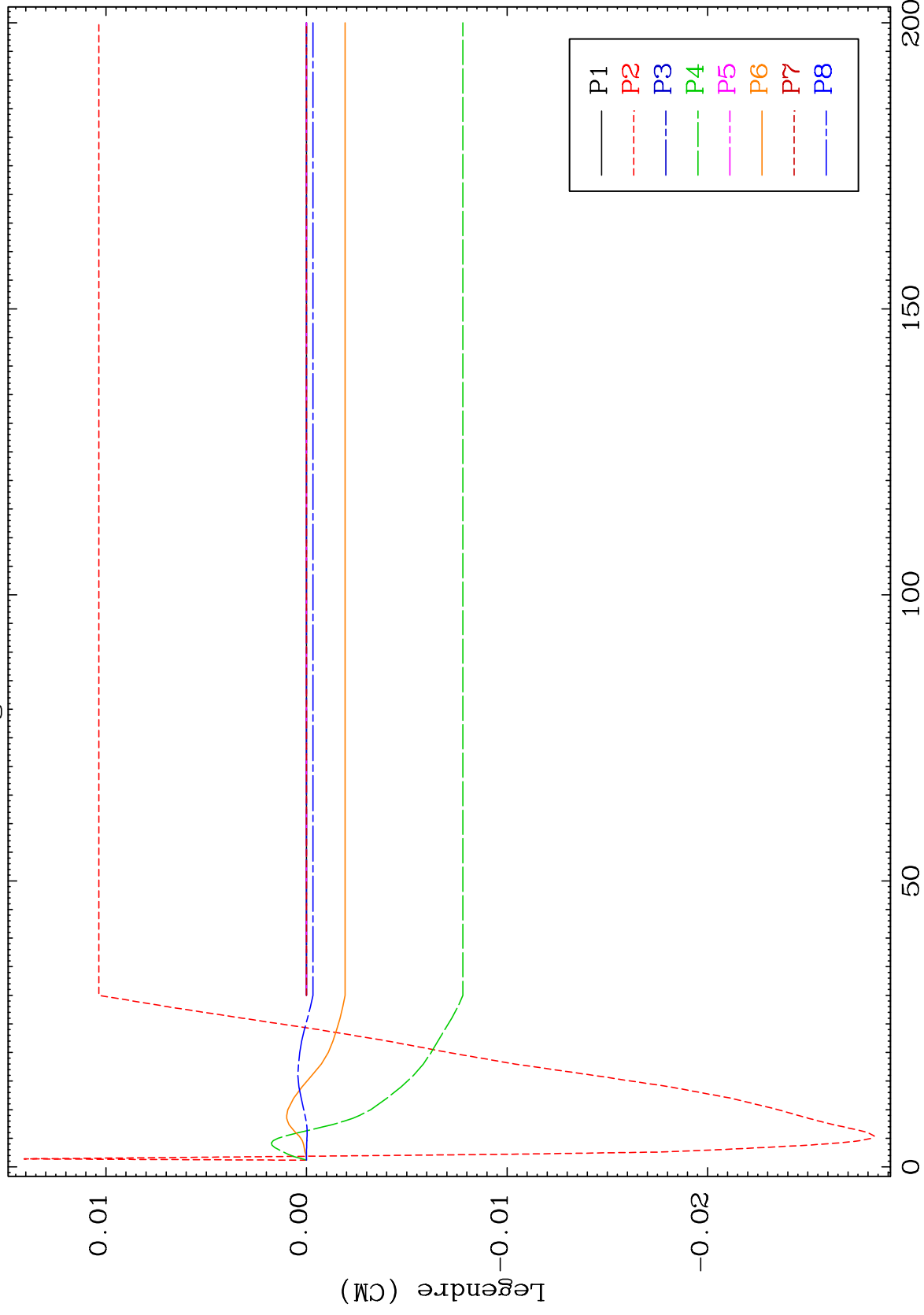
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

55-Cs-138



72

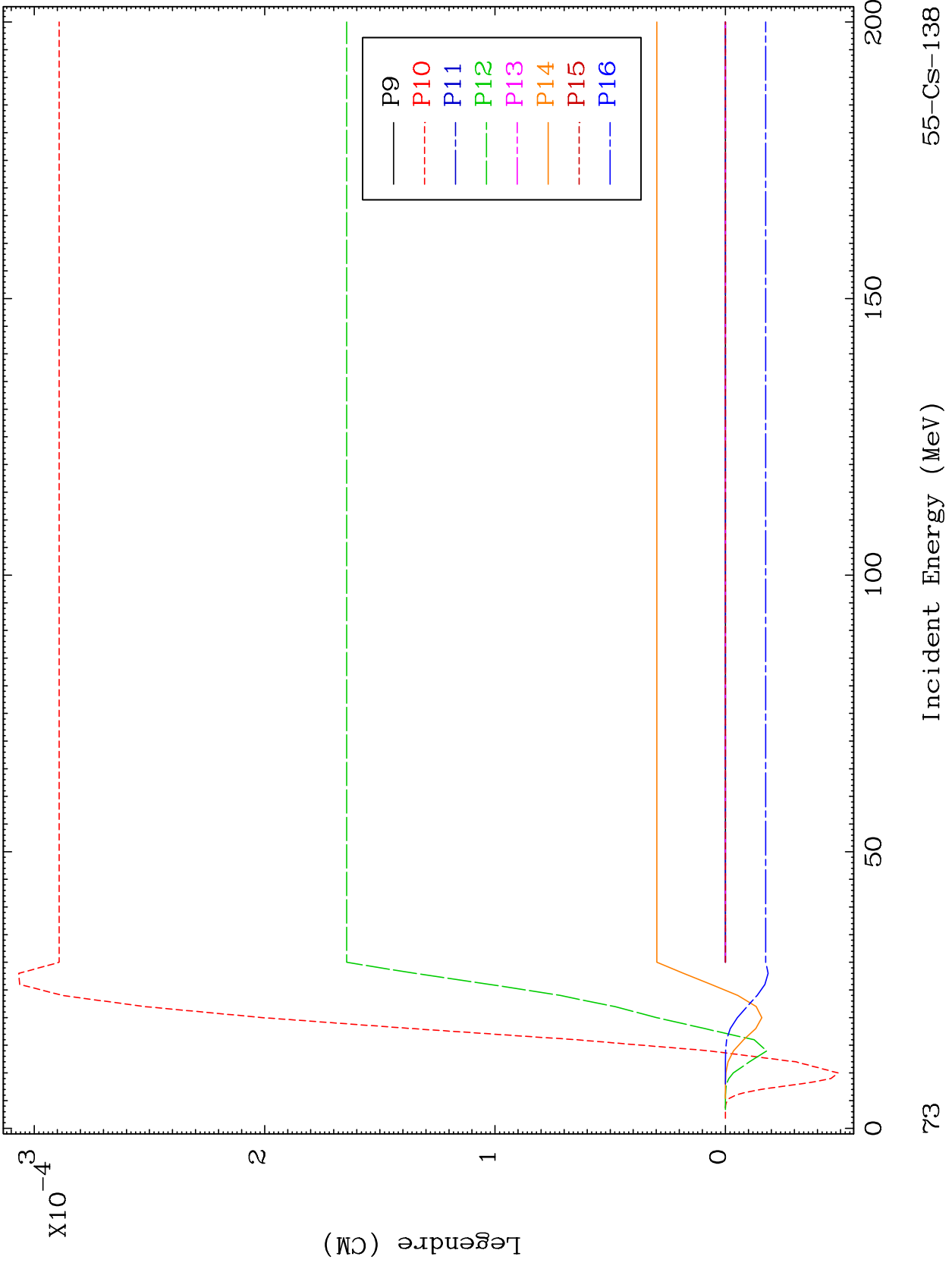
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

55-Cs-138



55-Cs-138

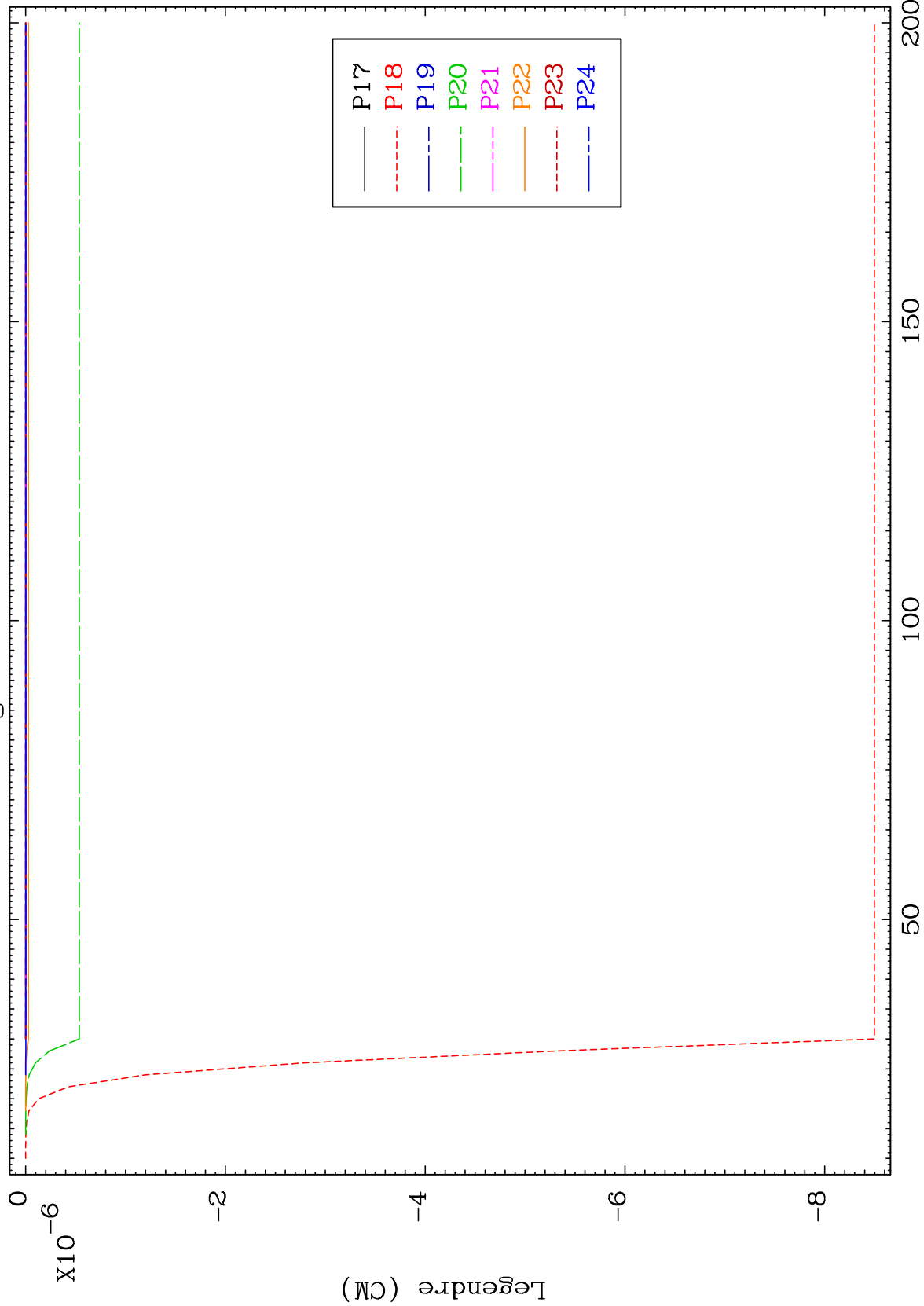
Incident Energy (MeV)

73

MAT 5540

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

55-Cs-138



55-Cs-138

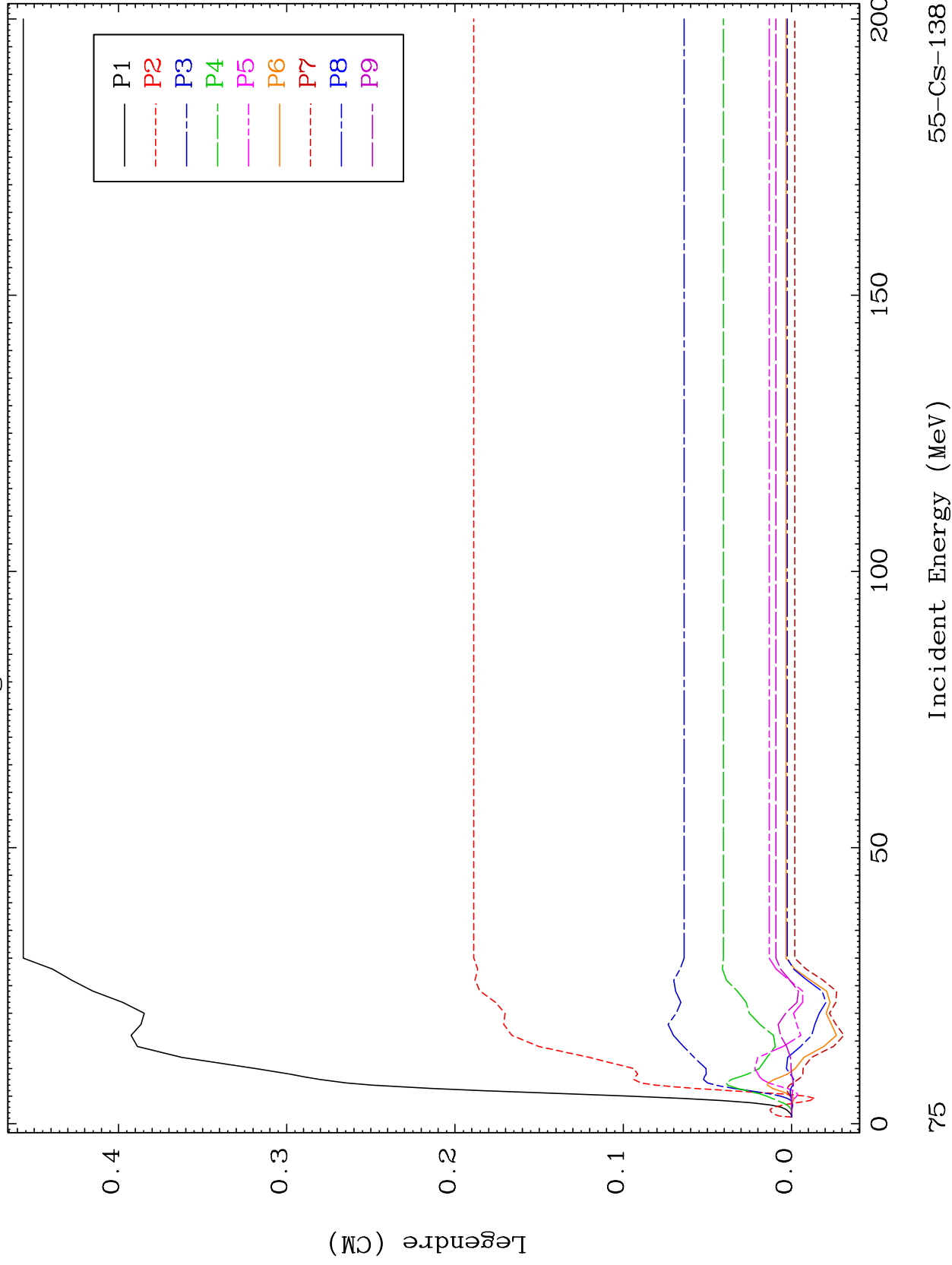
Incident Energy (MeV)

74

MAT 5540

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

55-Cs-138



55-Cs-138

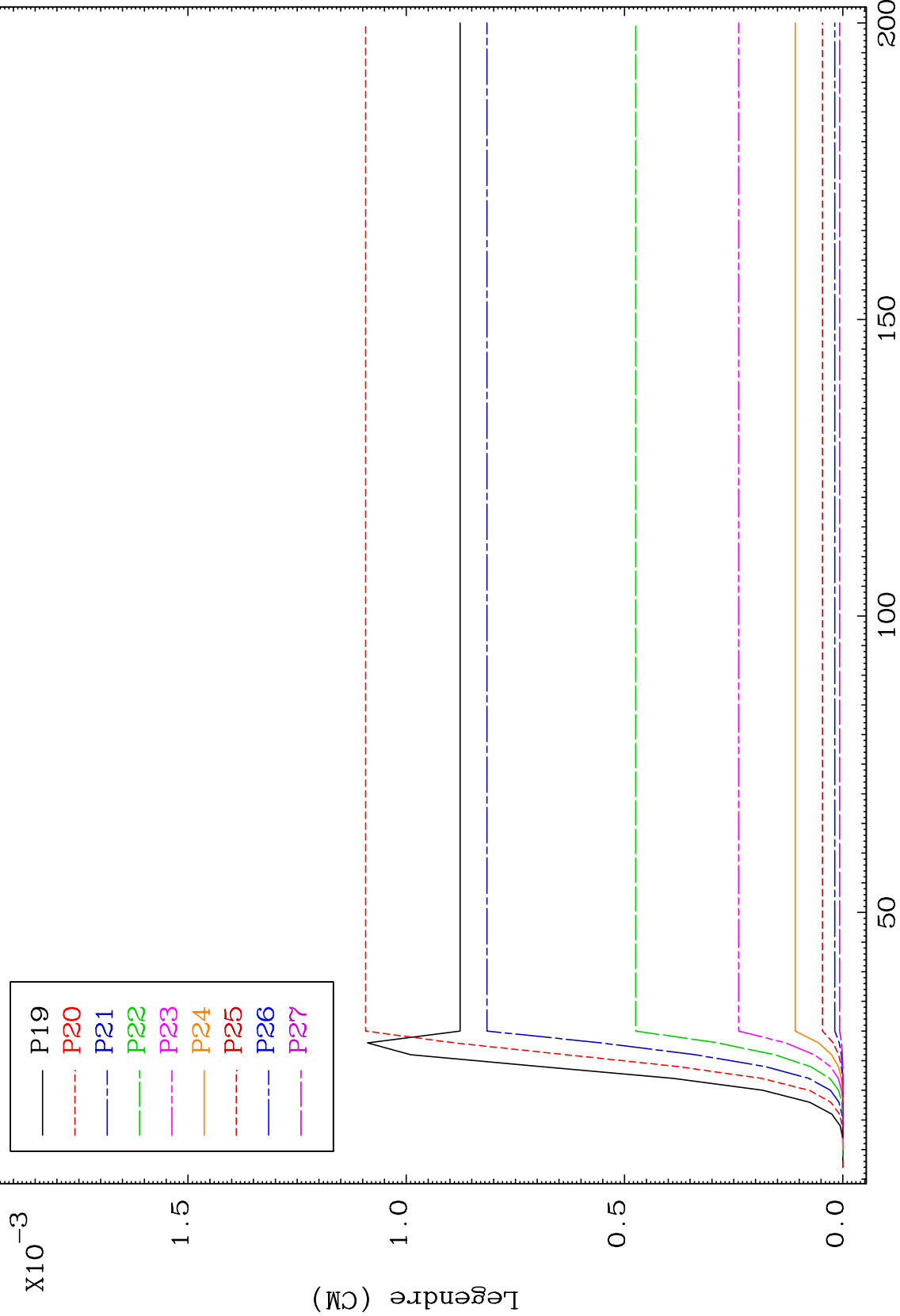
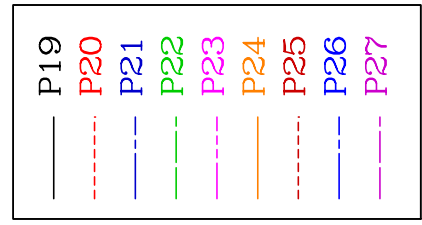
Incident Energy (MeV)

75

MAT 5540

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

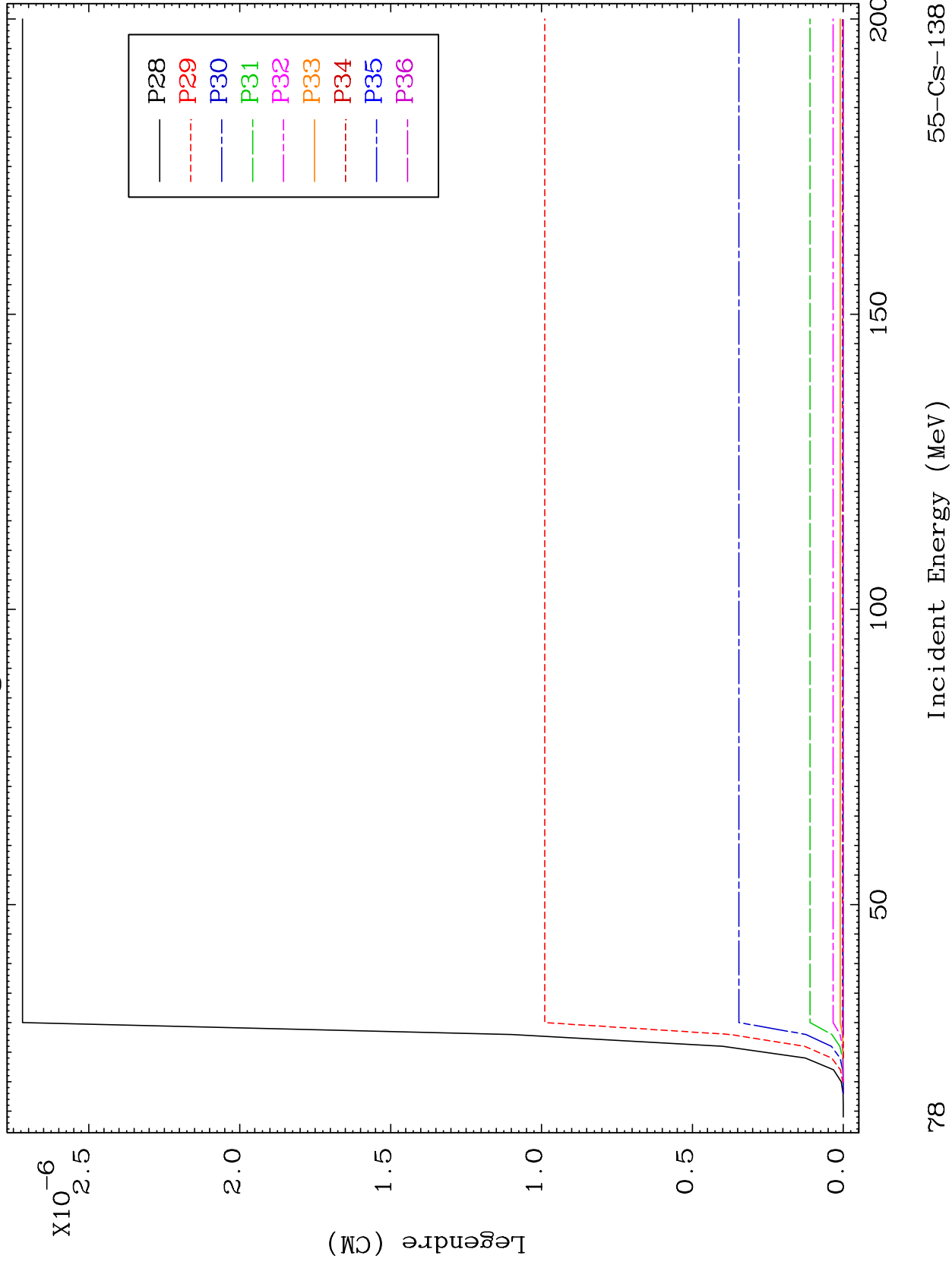
55-Cs-138



MAT 5540

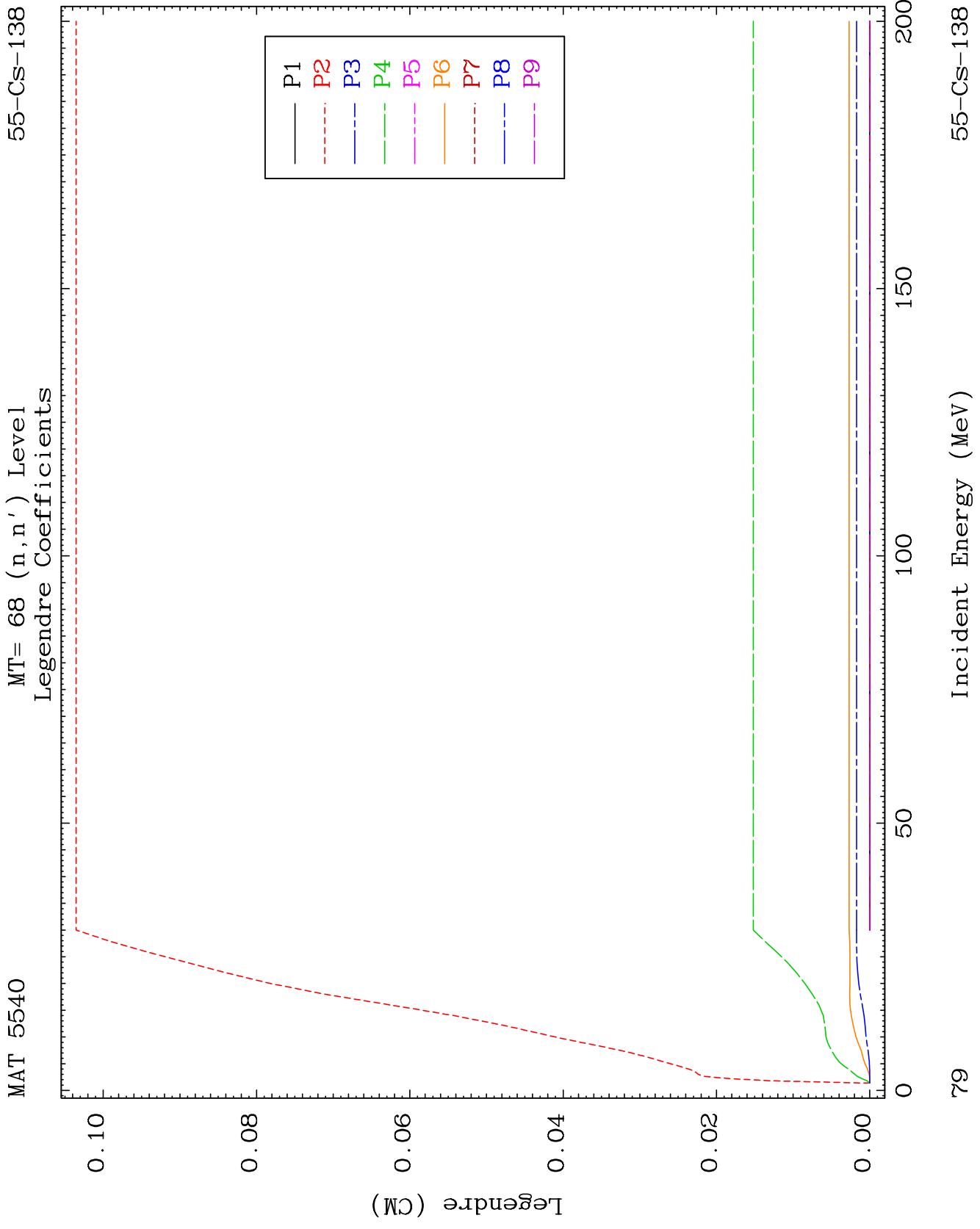
MT= 67 (n,n') Level
Legendre Coefficients

55-Cs-138



78

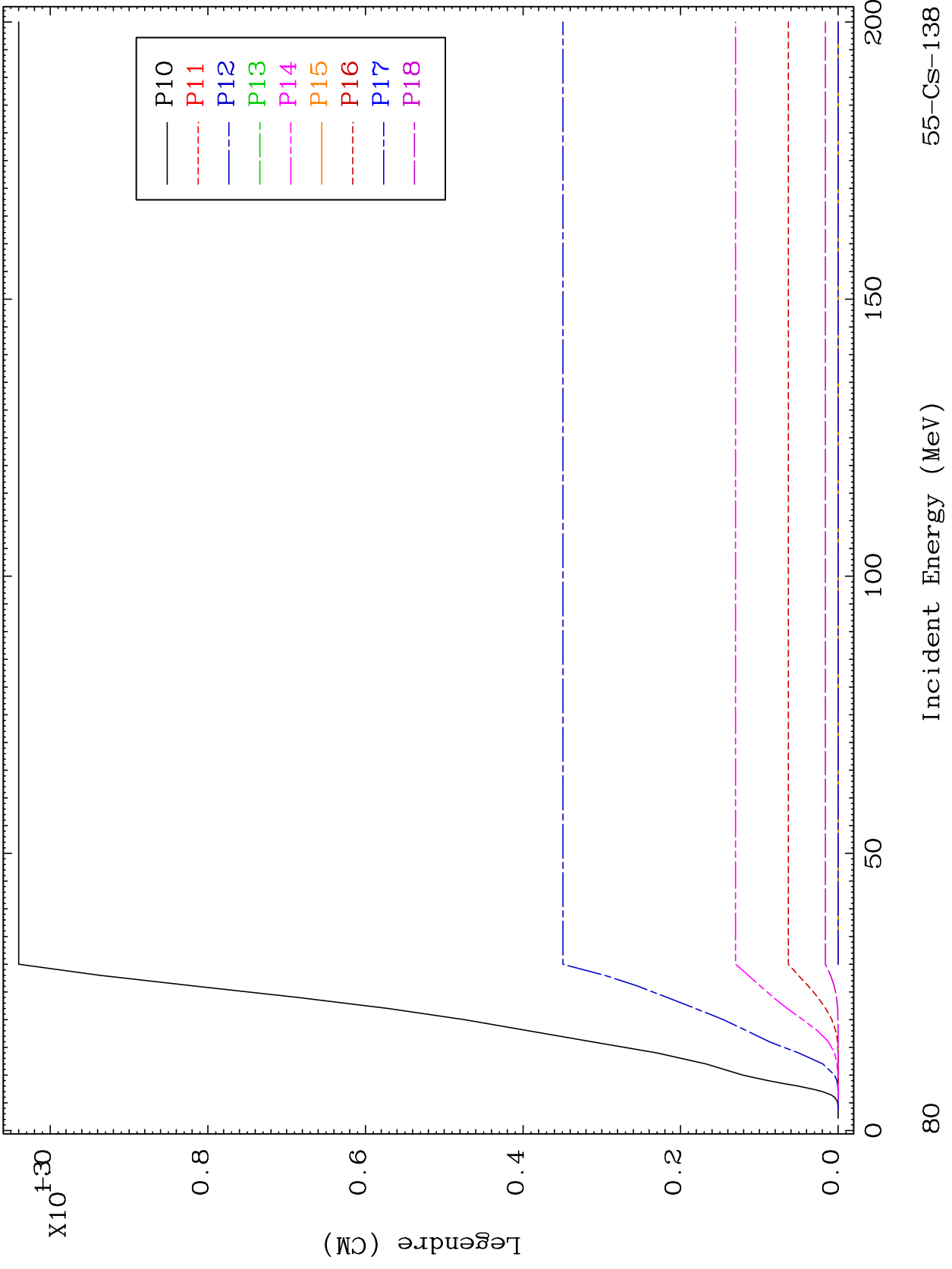
55-Cs-138



MAT 5540

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

55-Cs-138

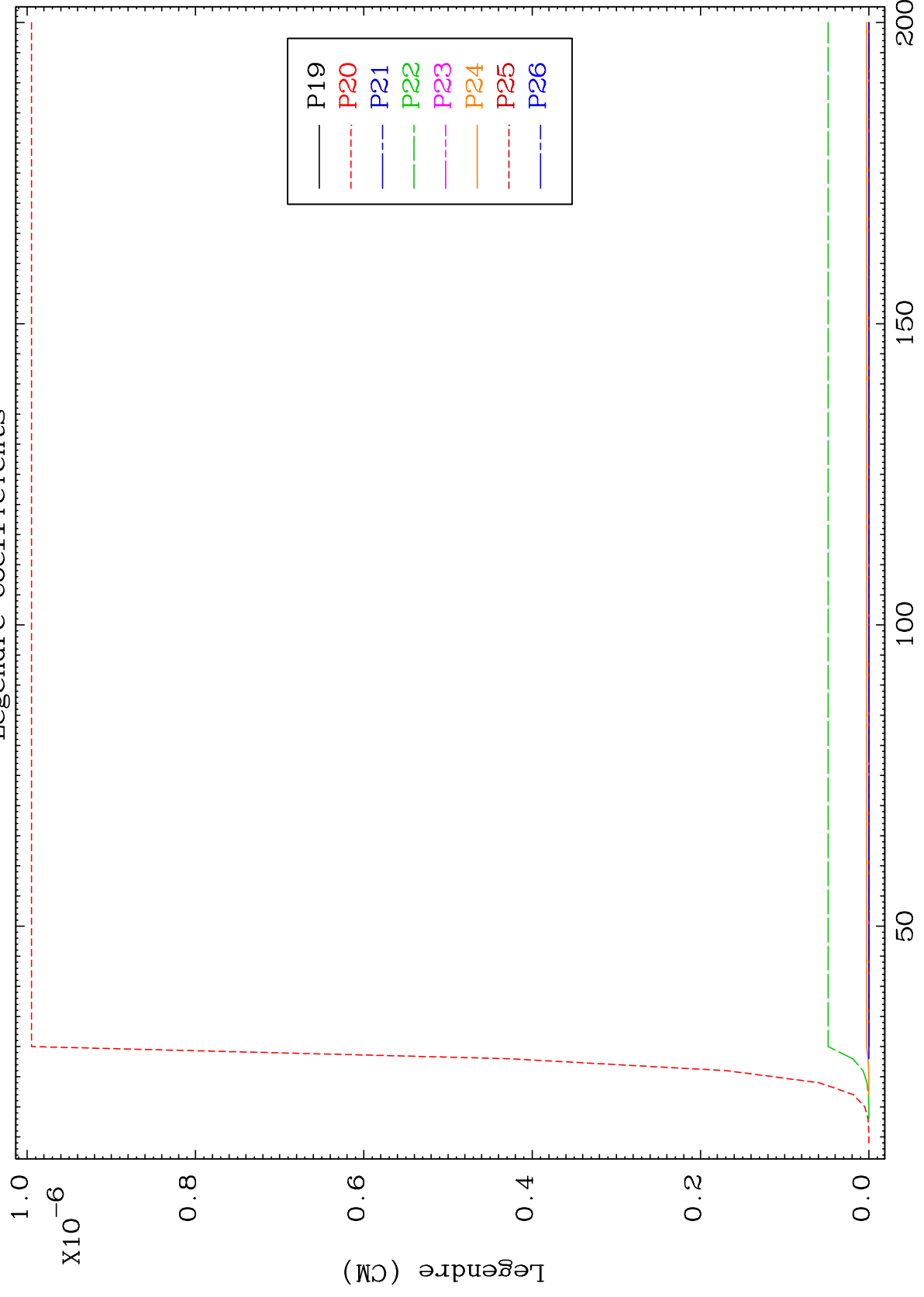


55-Cs-138

MAT 5540

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

55-Cs-138



55-Cs-138

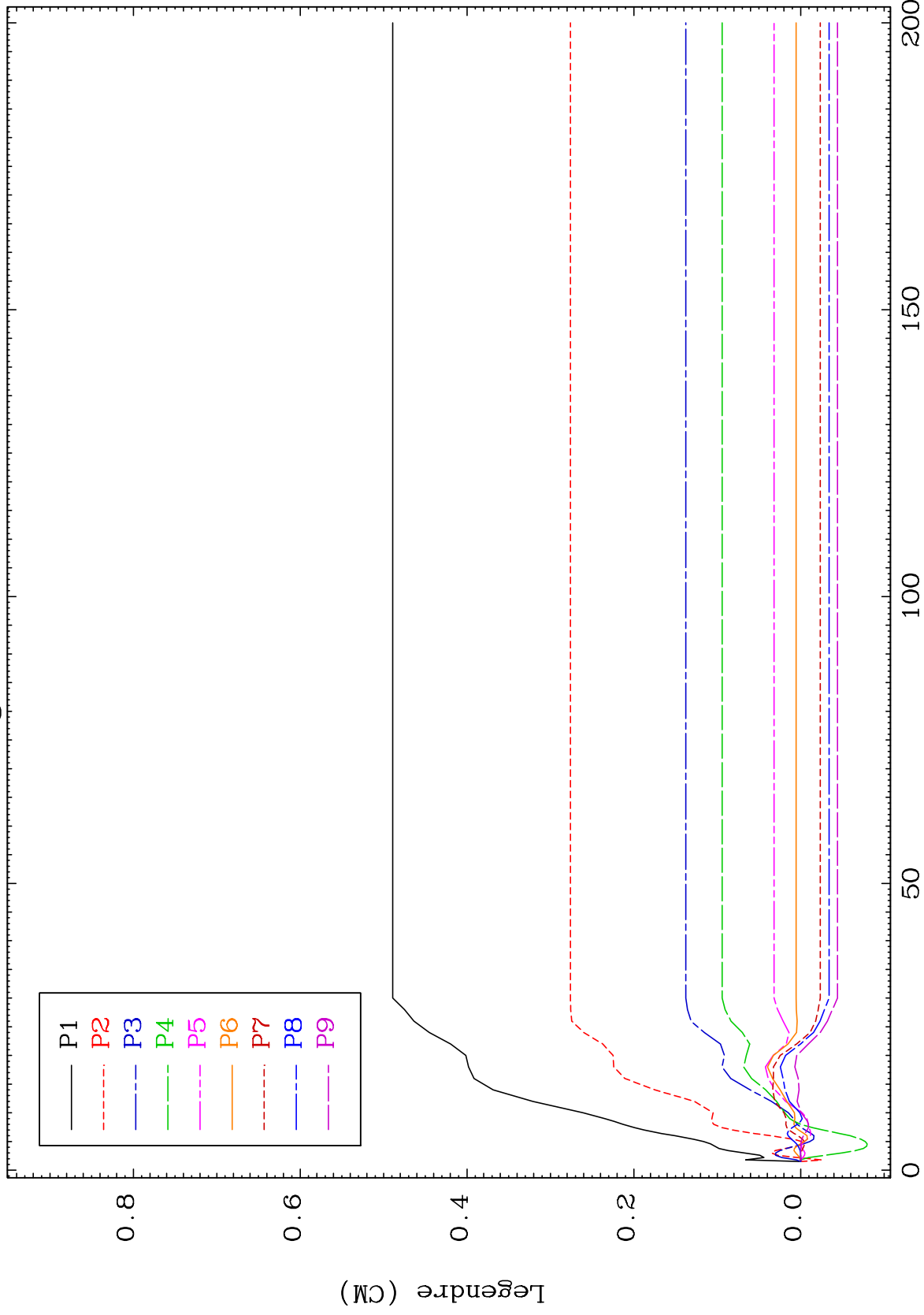
Incident Energy (MeV)

81

MAT 5540

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

55-Cs-138



82

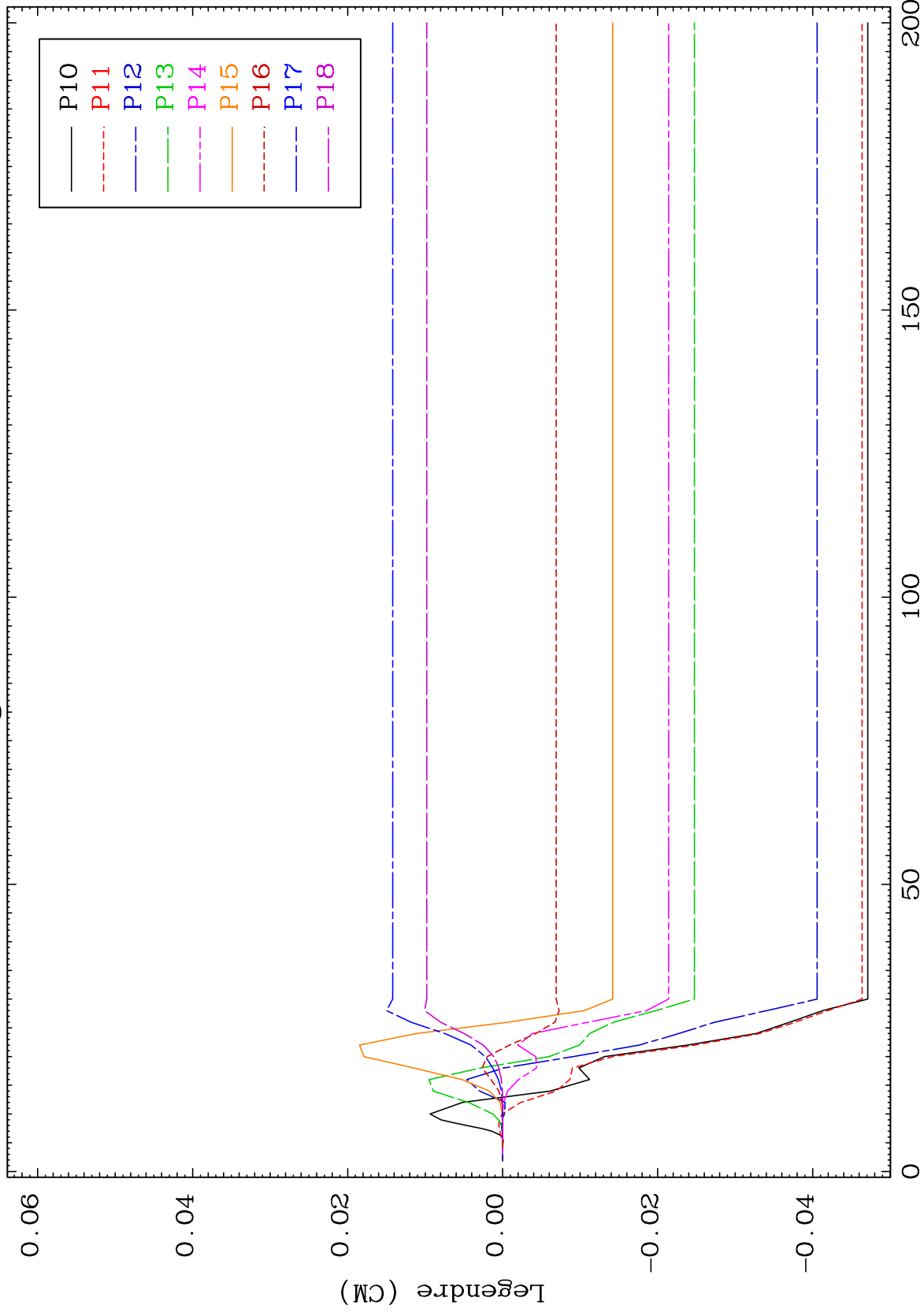
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

55-Cs-138



83

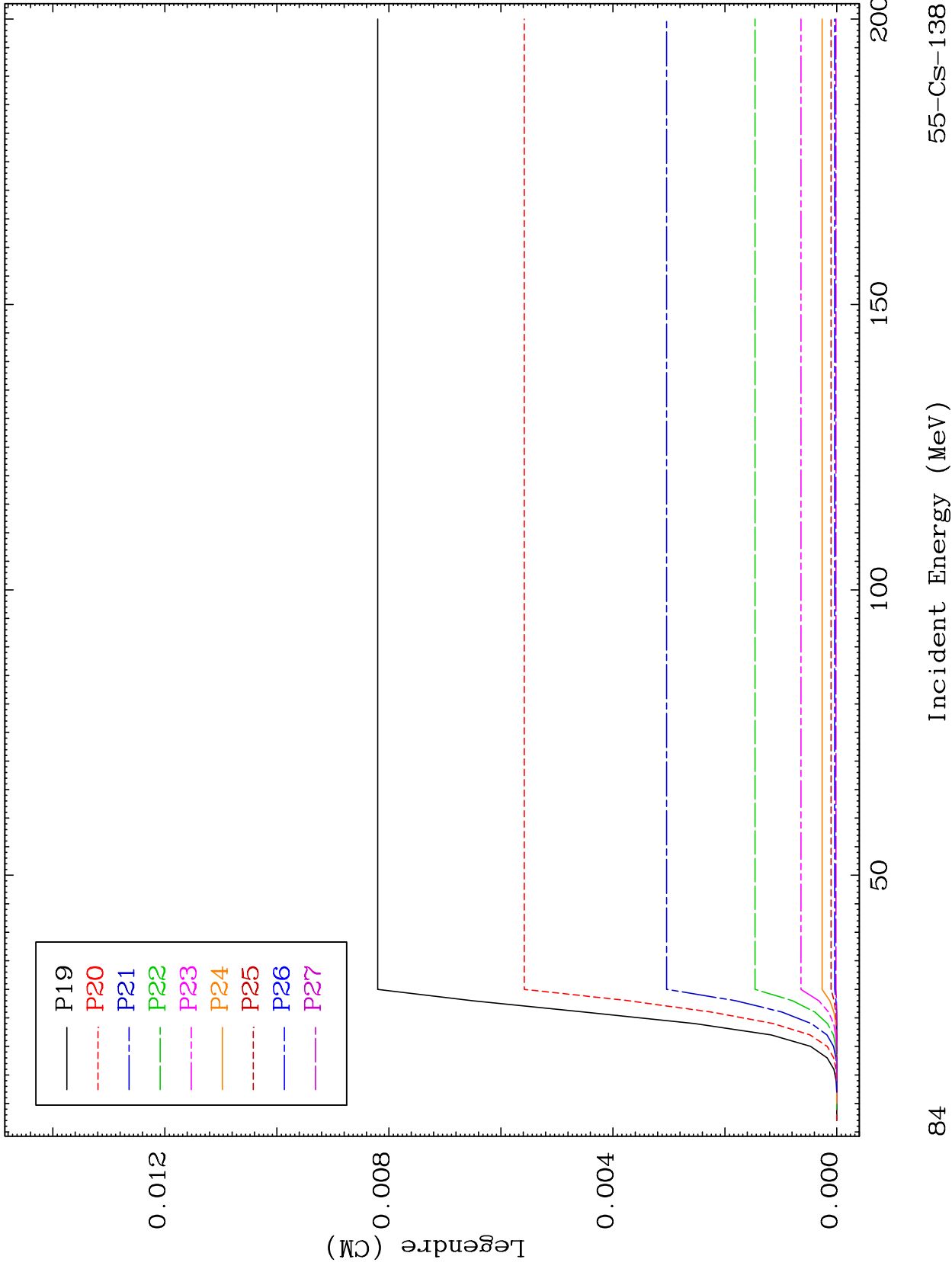
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

55-Cs-138



84

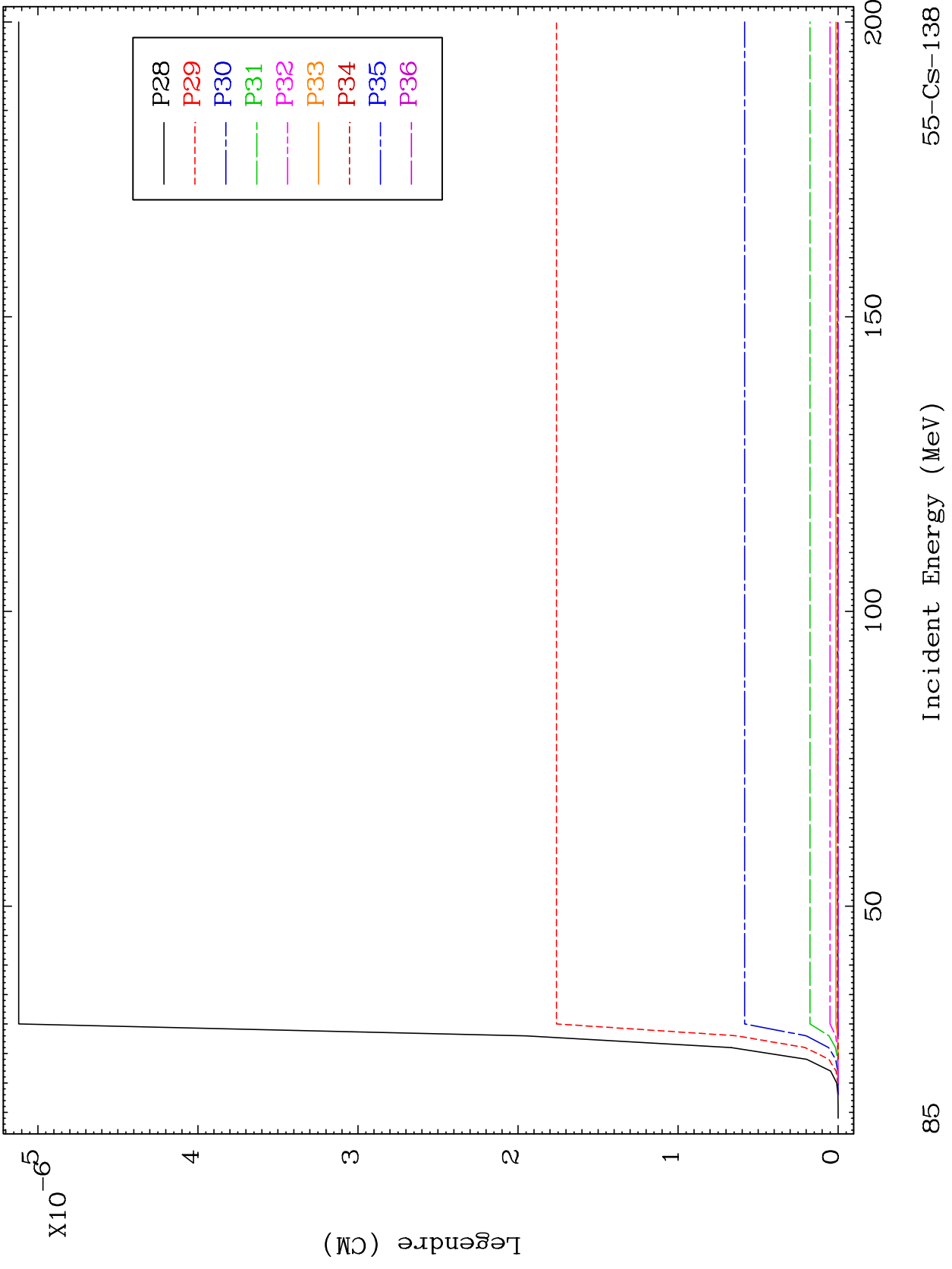
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

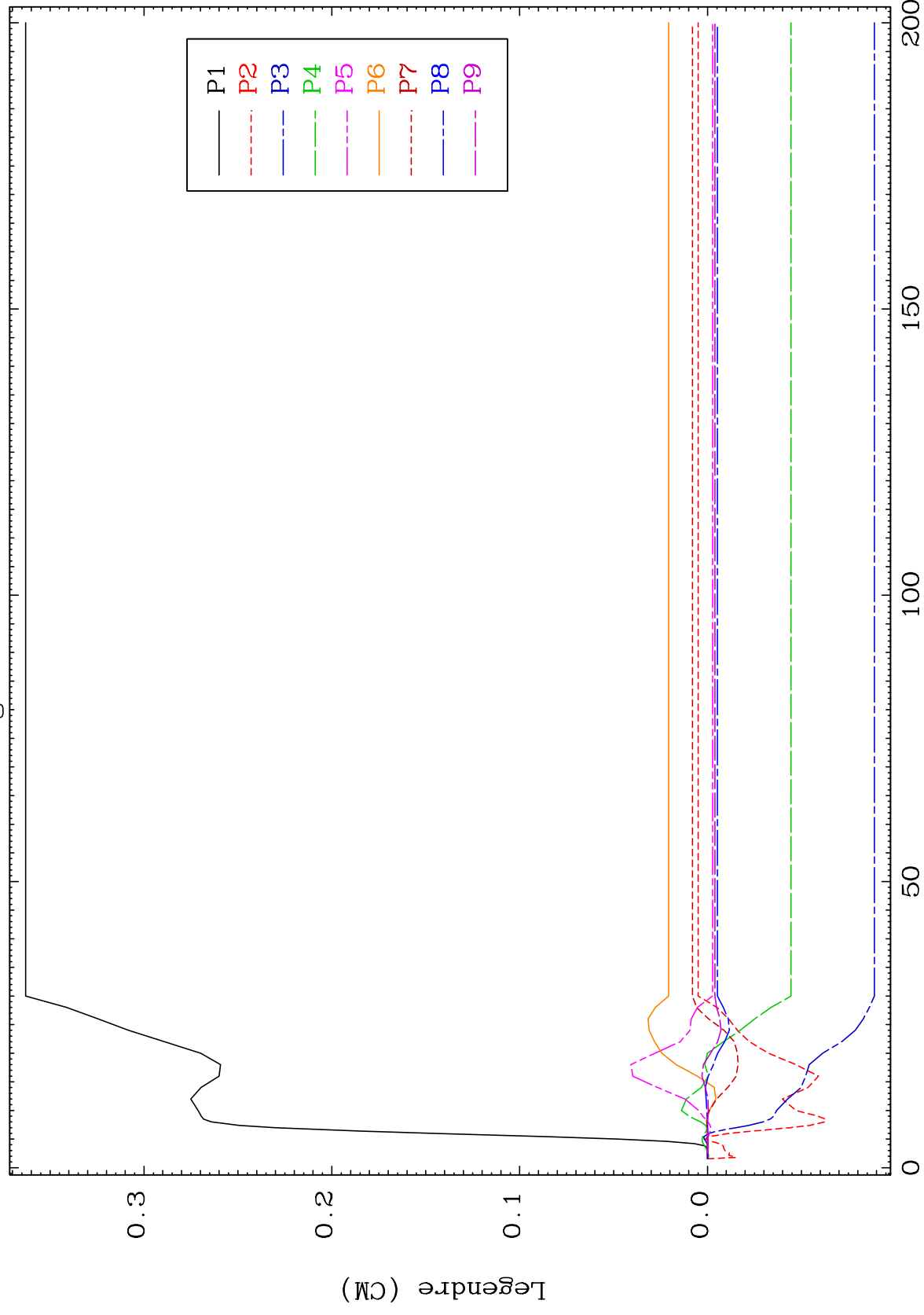
55-Cs-138



MAT 5540

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

55-Cs-138



86

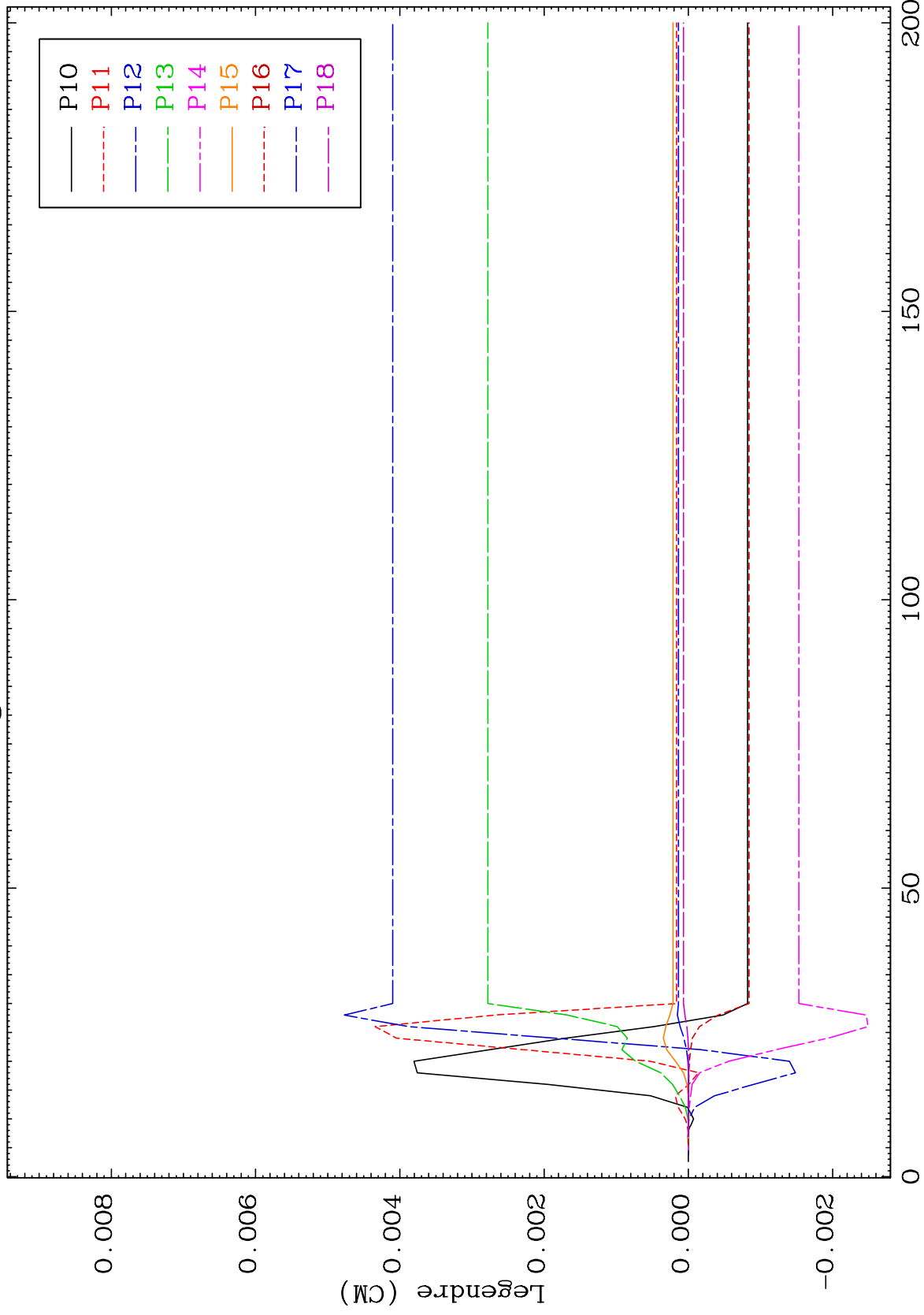
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

55-Cs-138



87

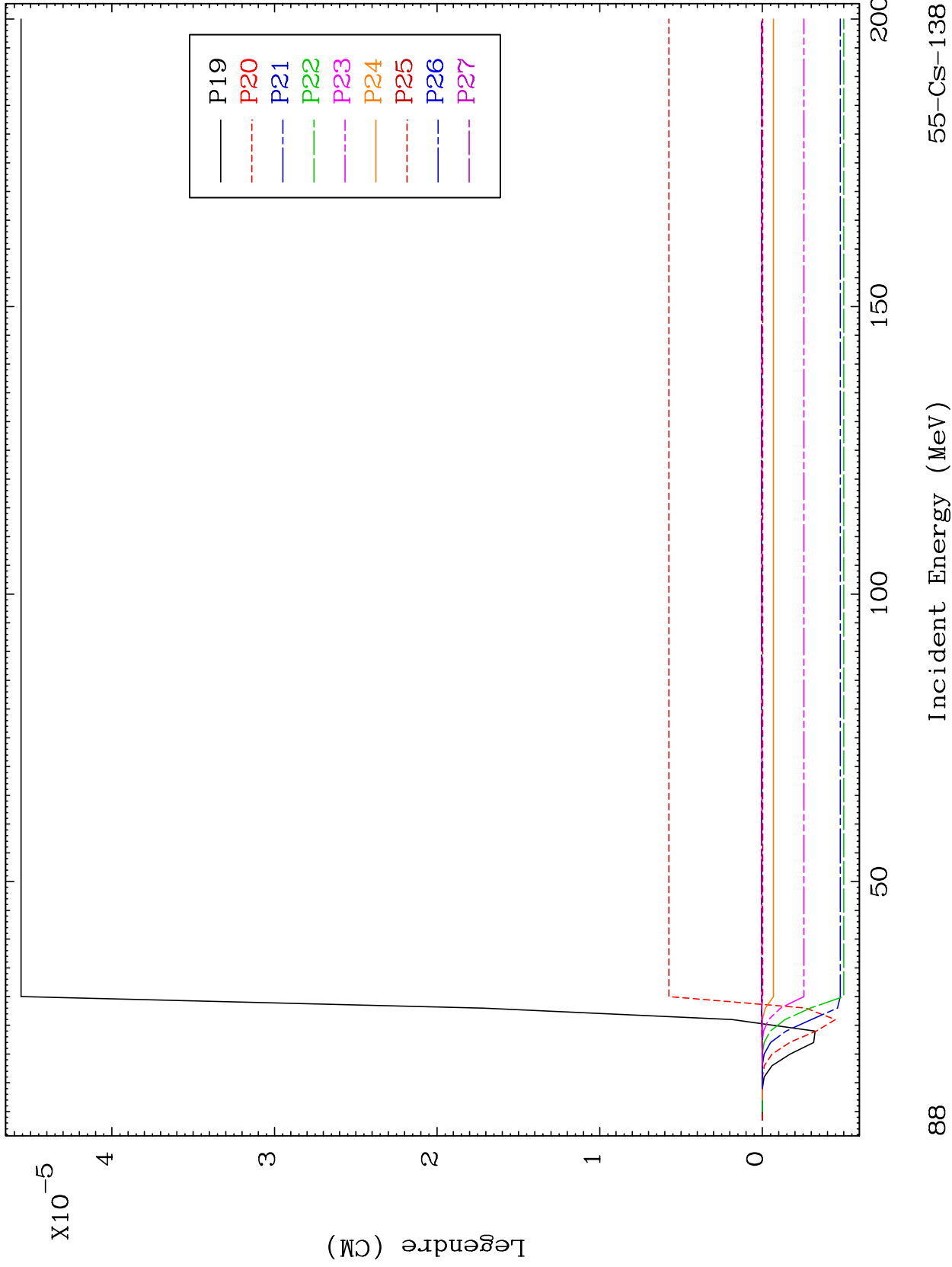
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

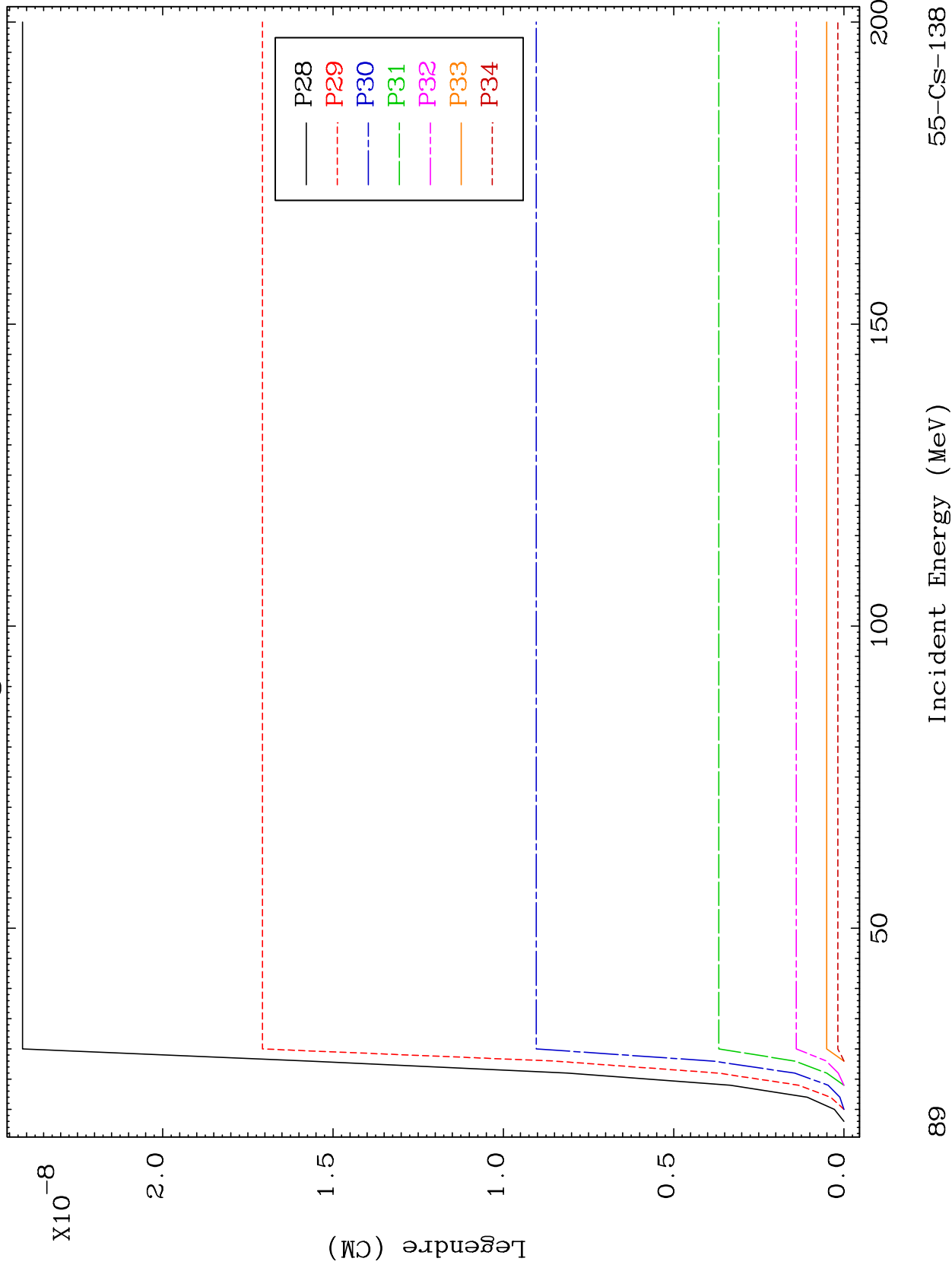
55-Cs-138



MAT 5540

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

55-Cs-138



89

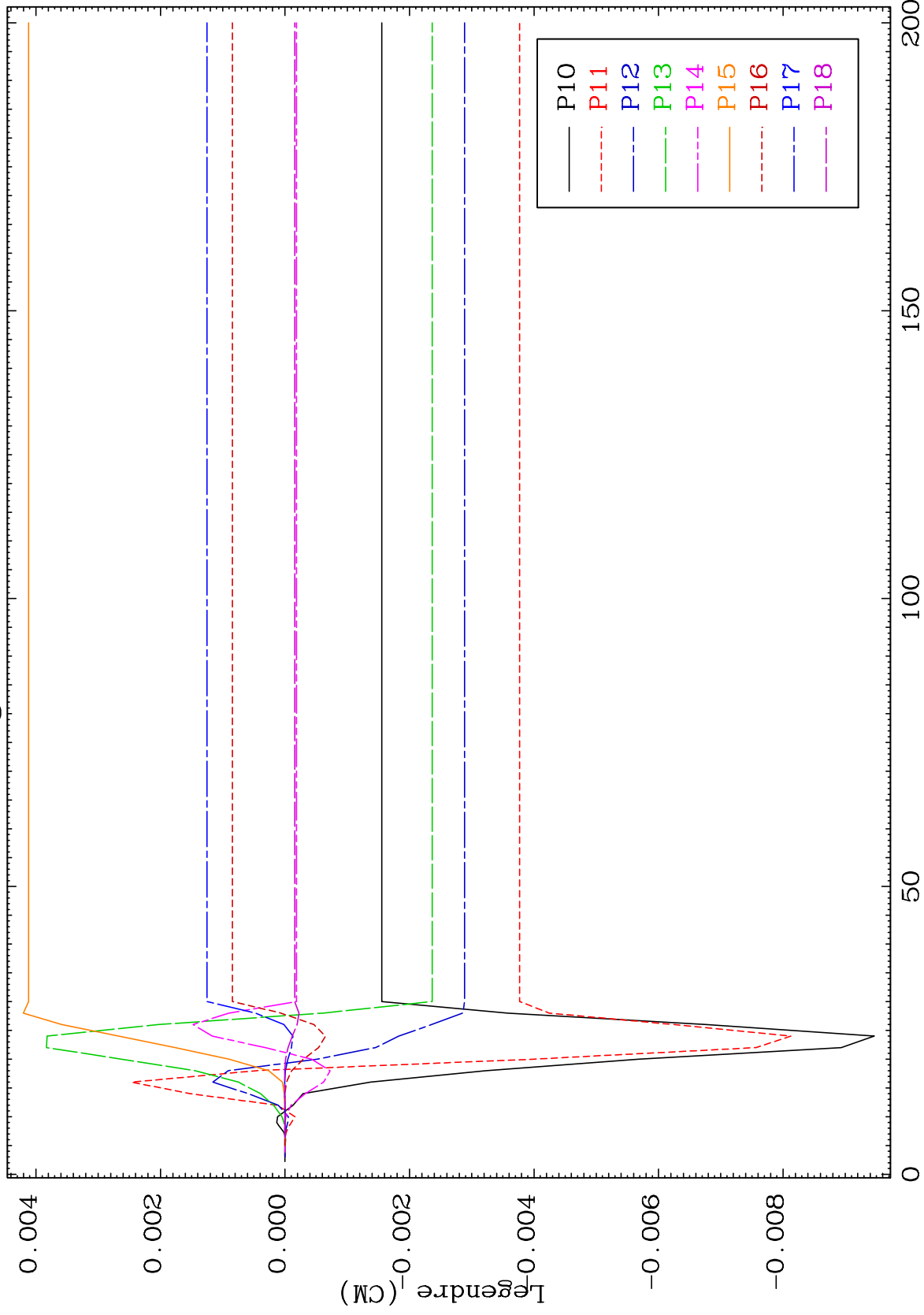
Incident Energy (MeV)

55-Cs-138

MAT 5540

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

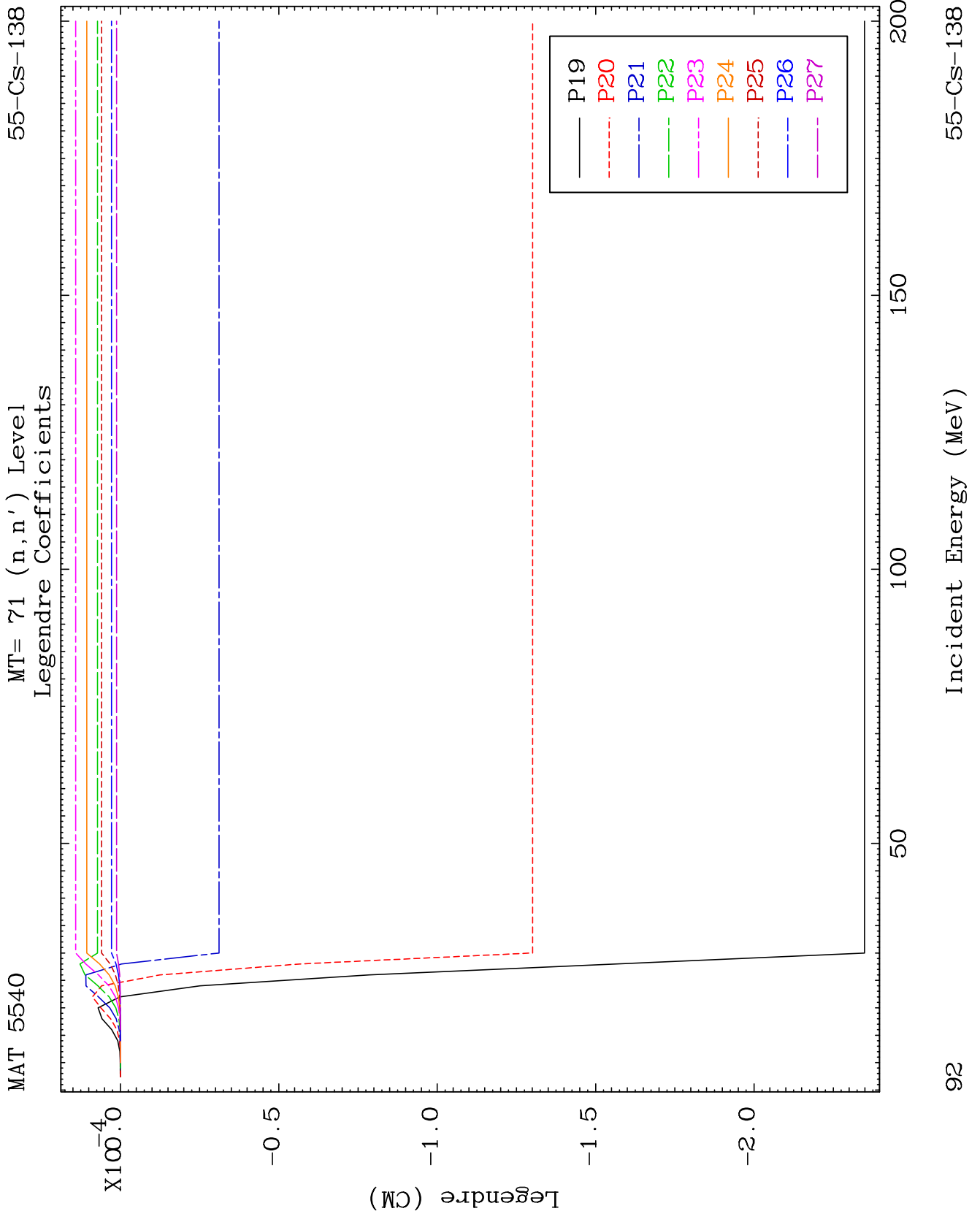
55-Cs-138



91

Incident Energy (MeV)

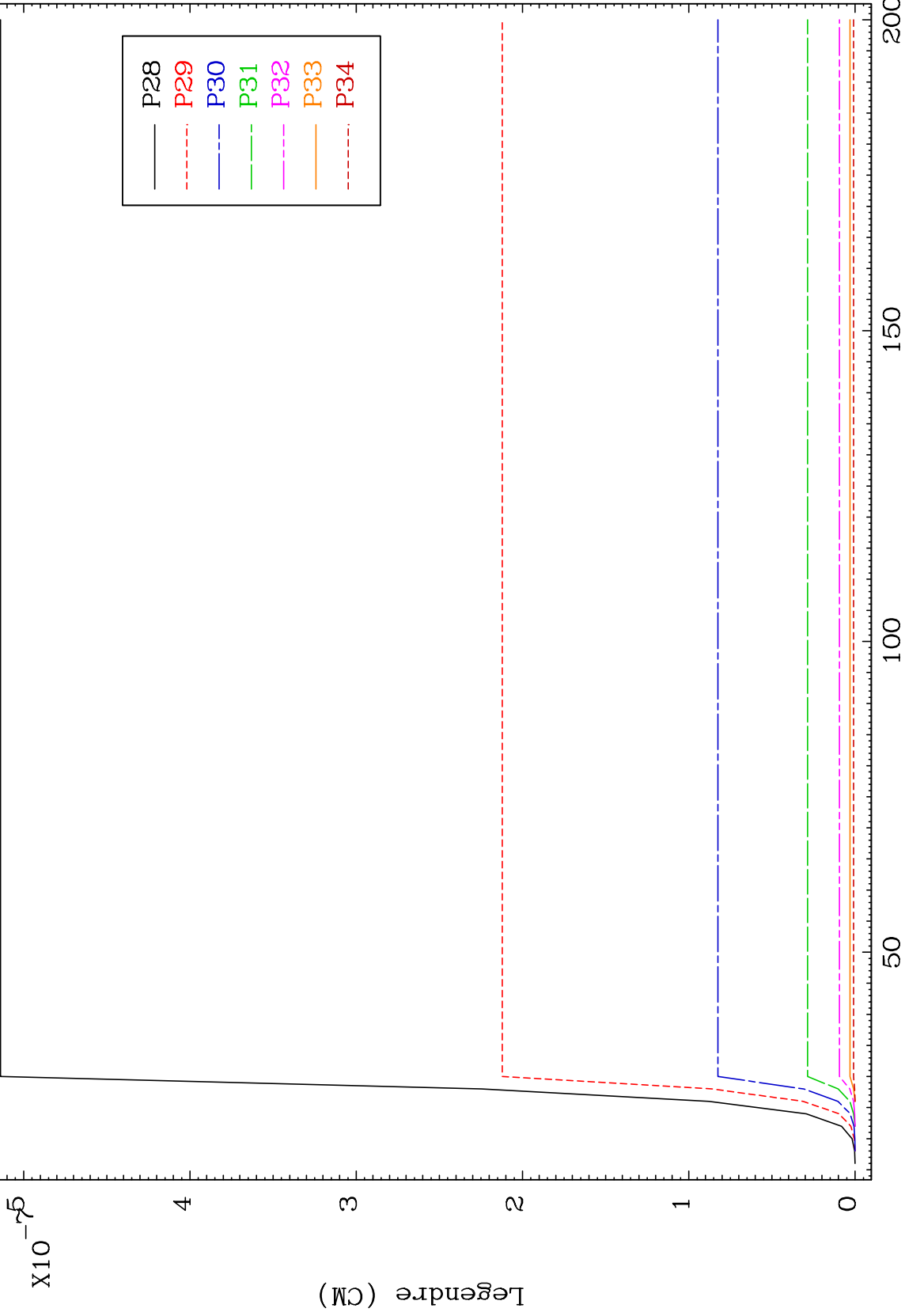
55-Cs-138



MAT 5540

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

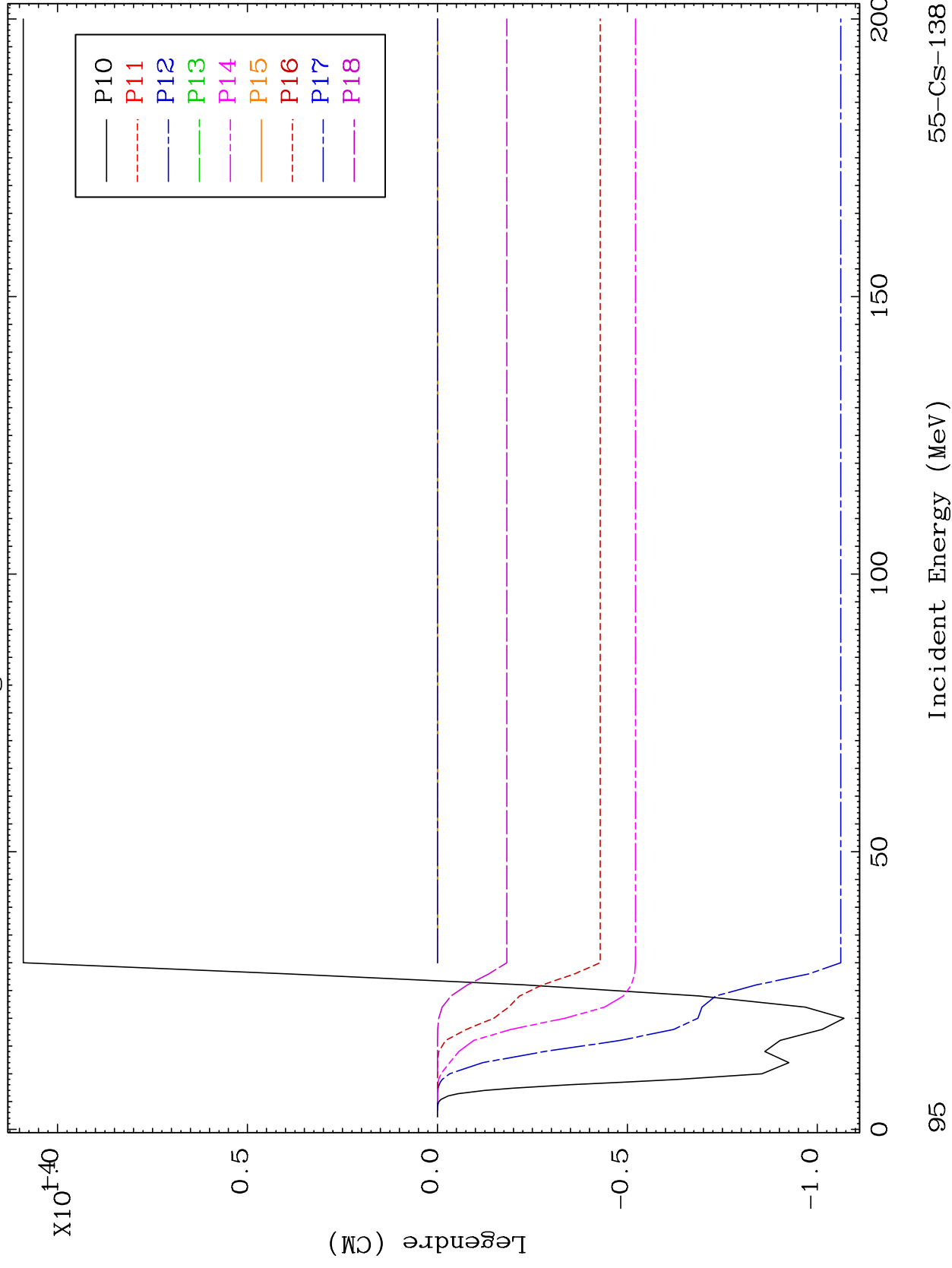
55-Cs-138

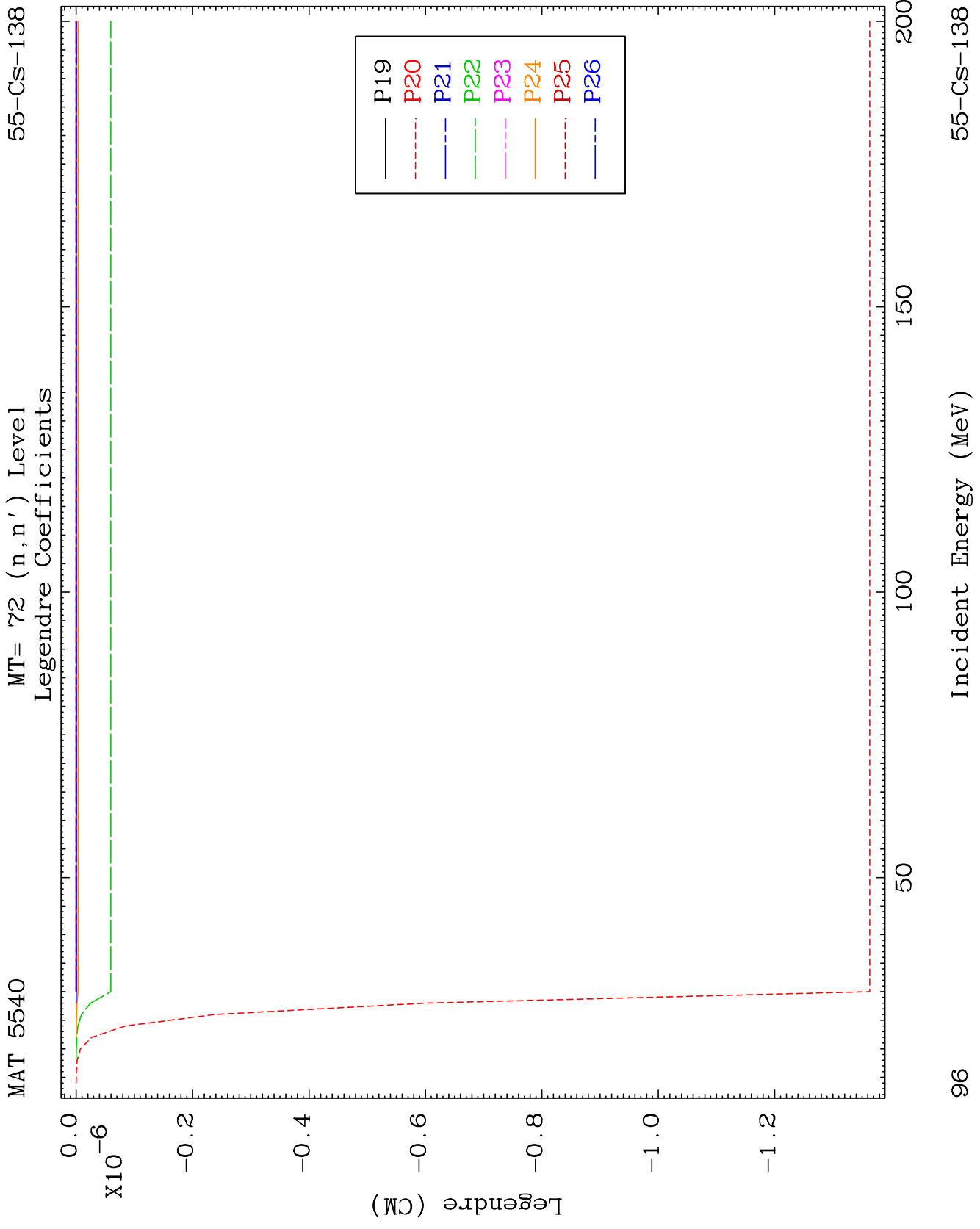


MAT 5540

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

55-Cs-138

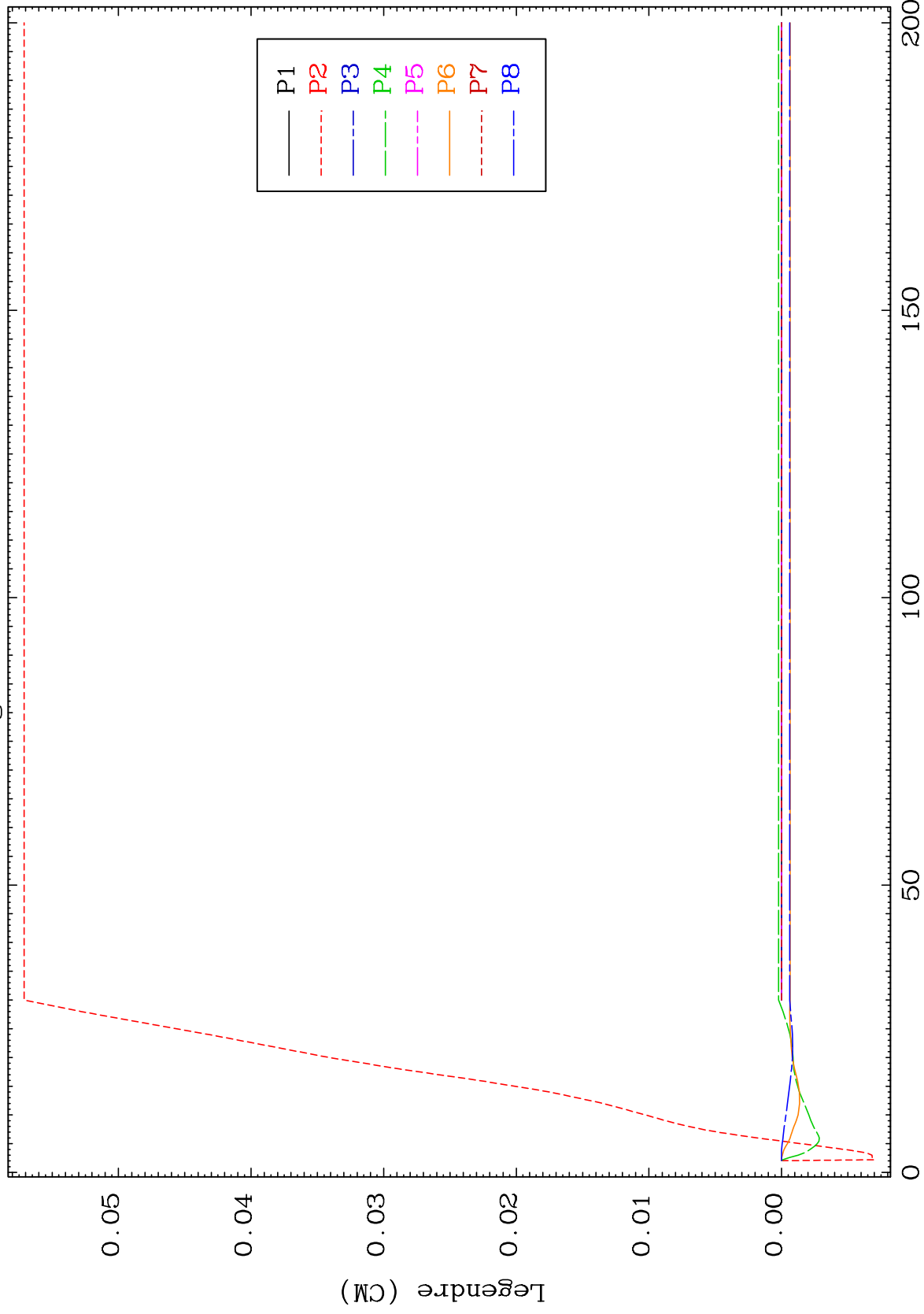




MAT 5540

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

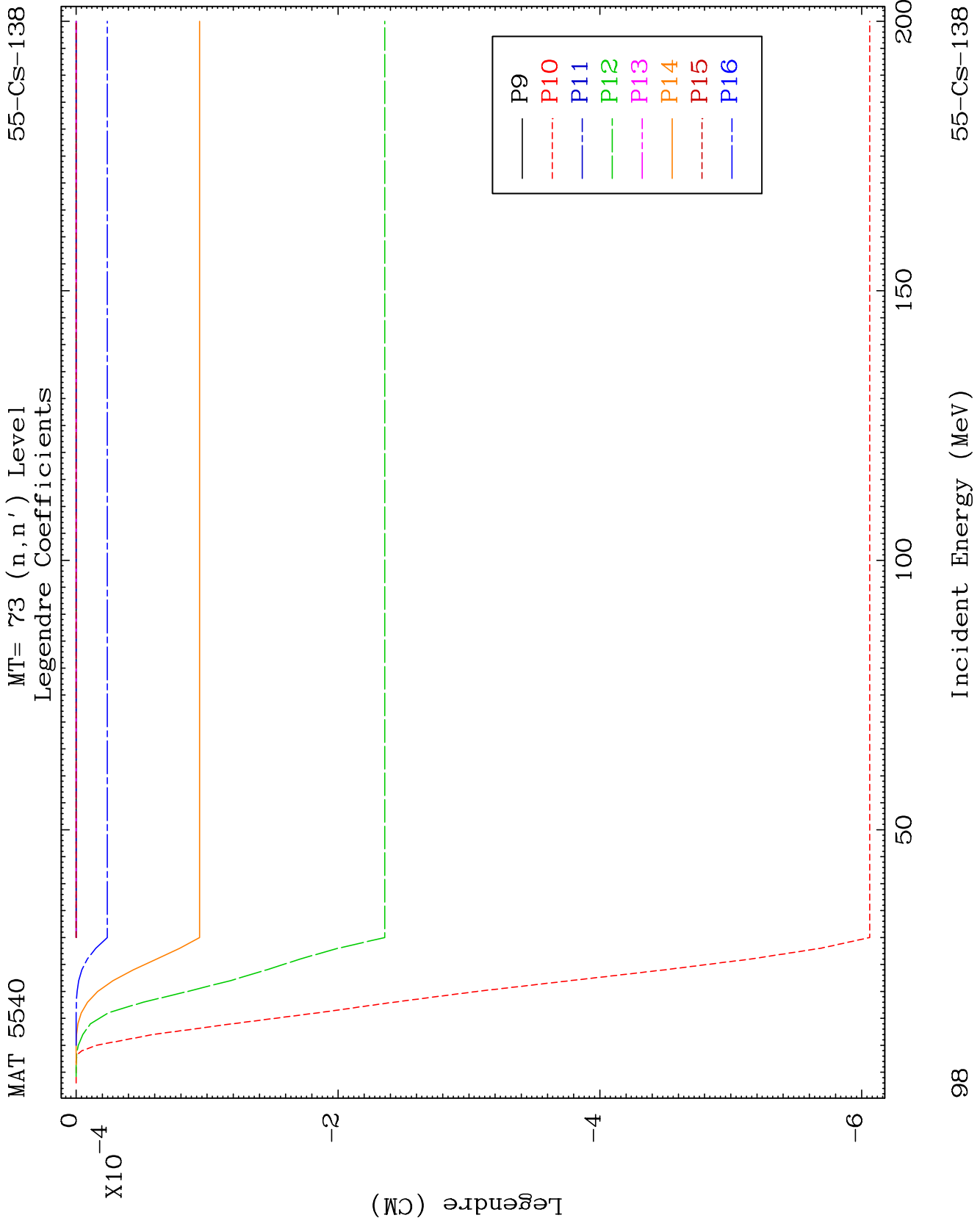
55-Cs-138



97

Incident Energy (MeV)

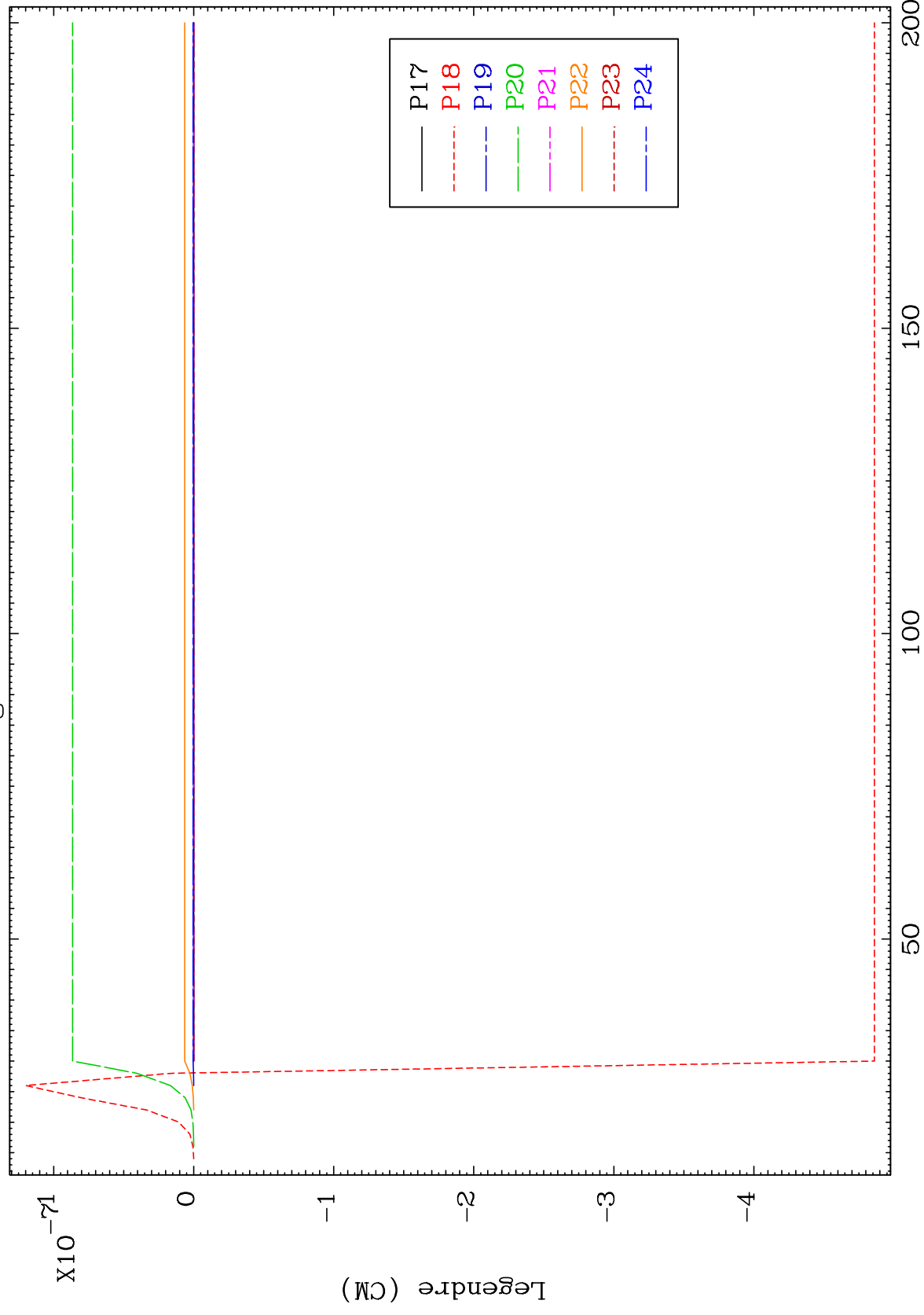
55-Cs-138



MAT 5540

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

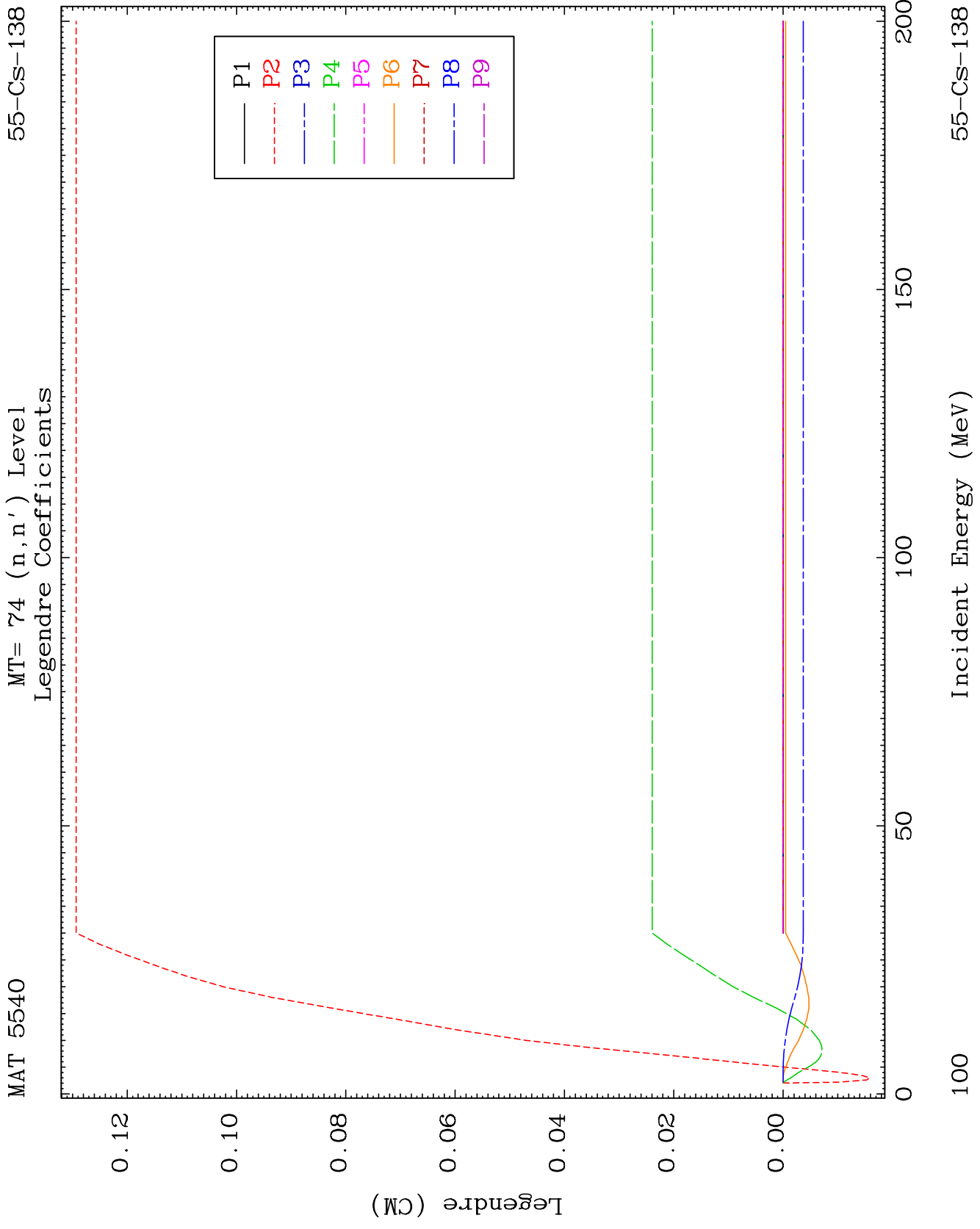
55-Cs-138

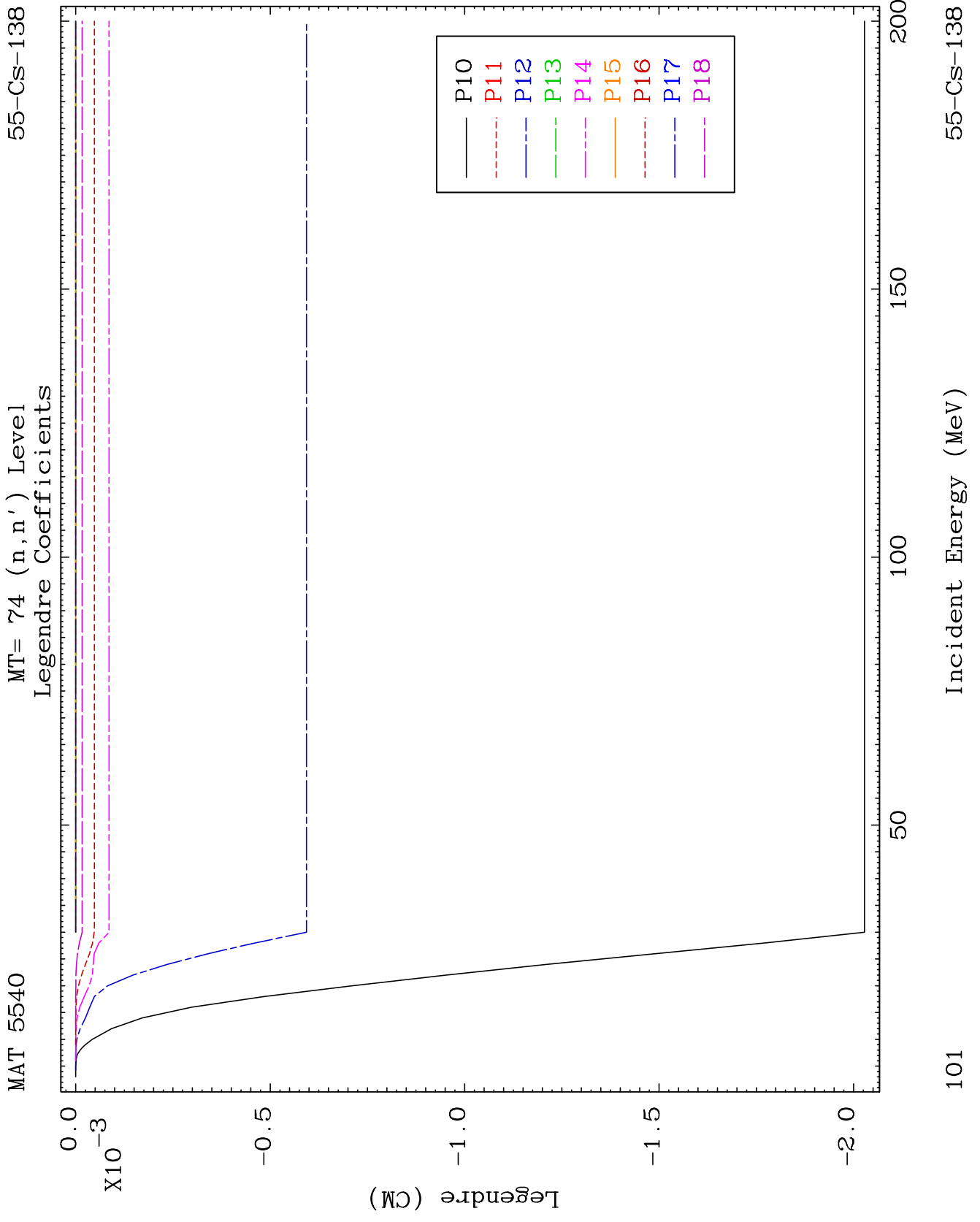


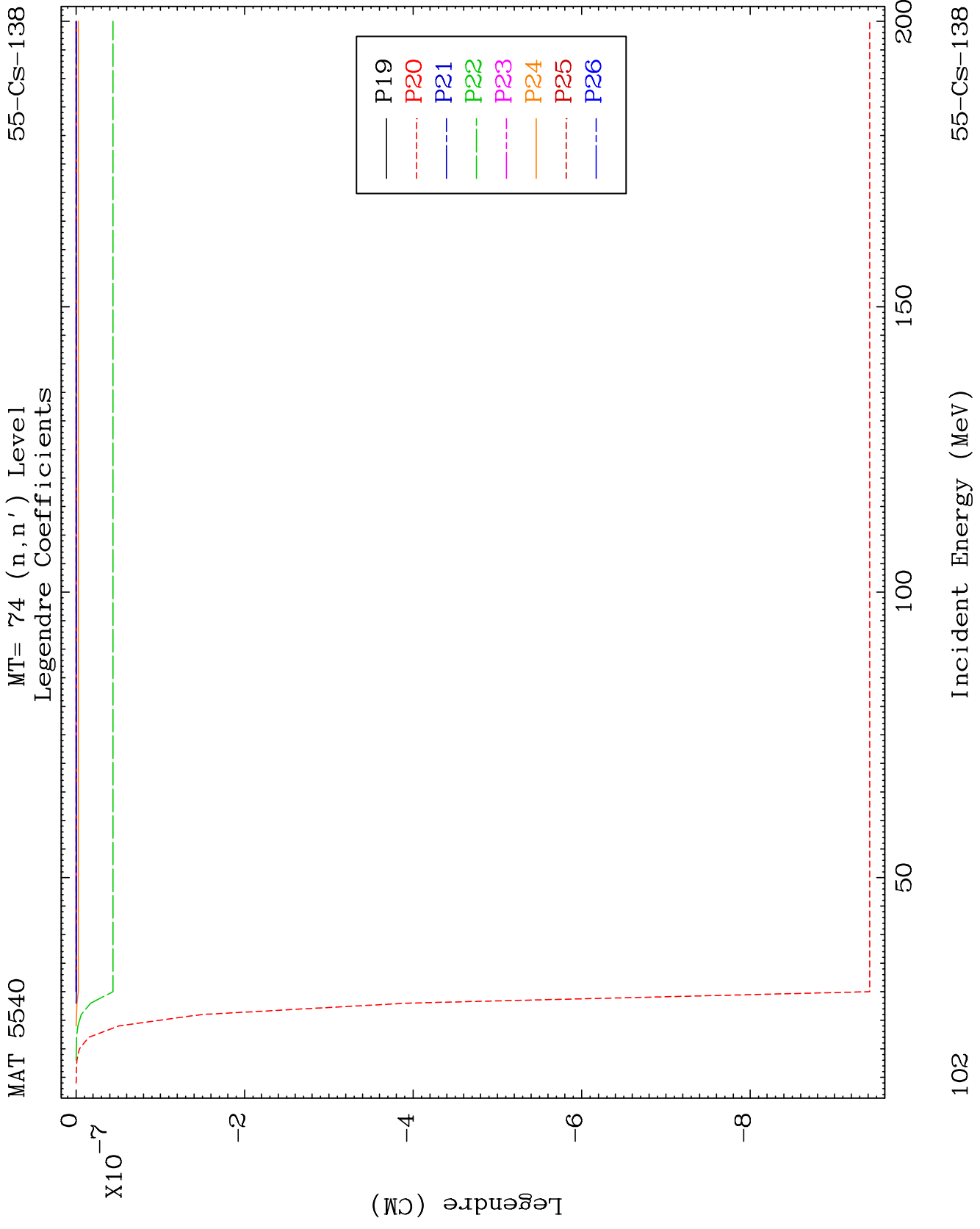
99

Incident Energy (MeV)

55-Cs-138



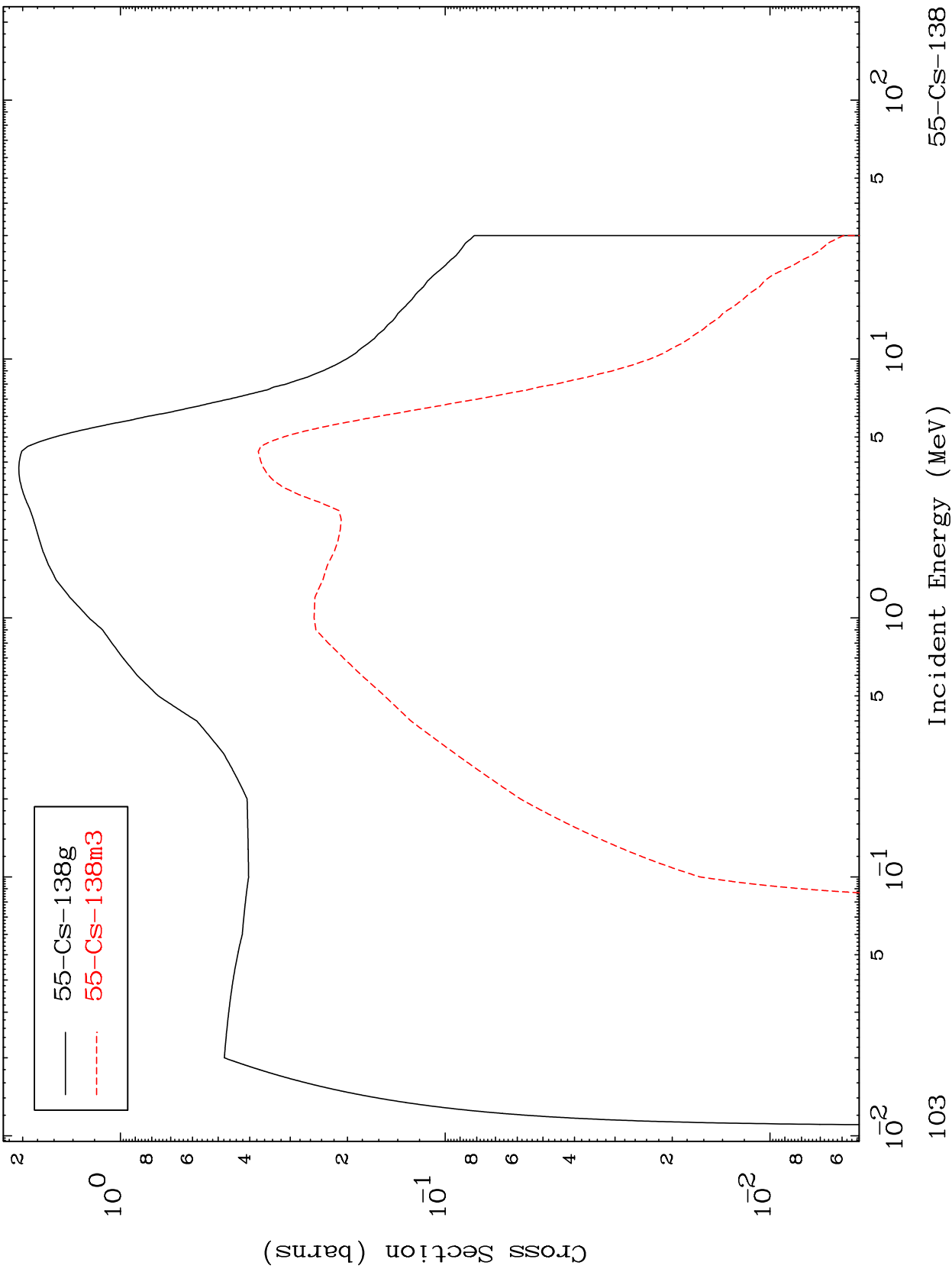




MAT 5540

55-Cs-138

Inelastic
Radionuclide Production Cross Section



55-Cs-138

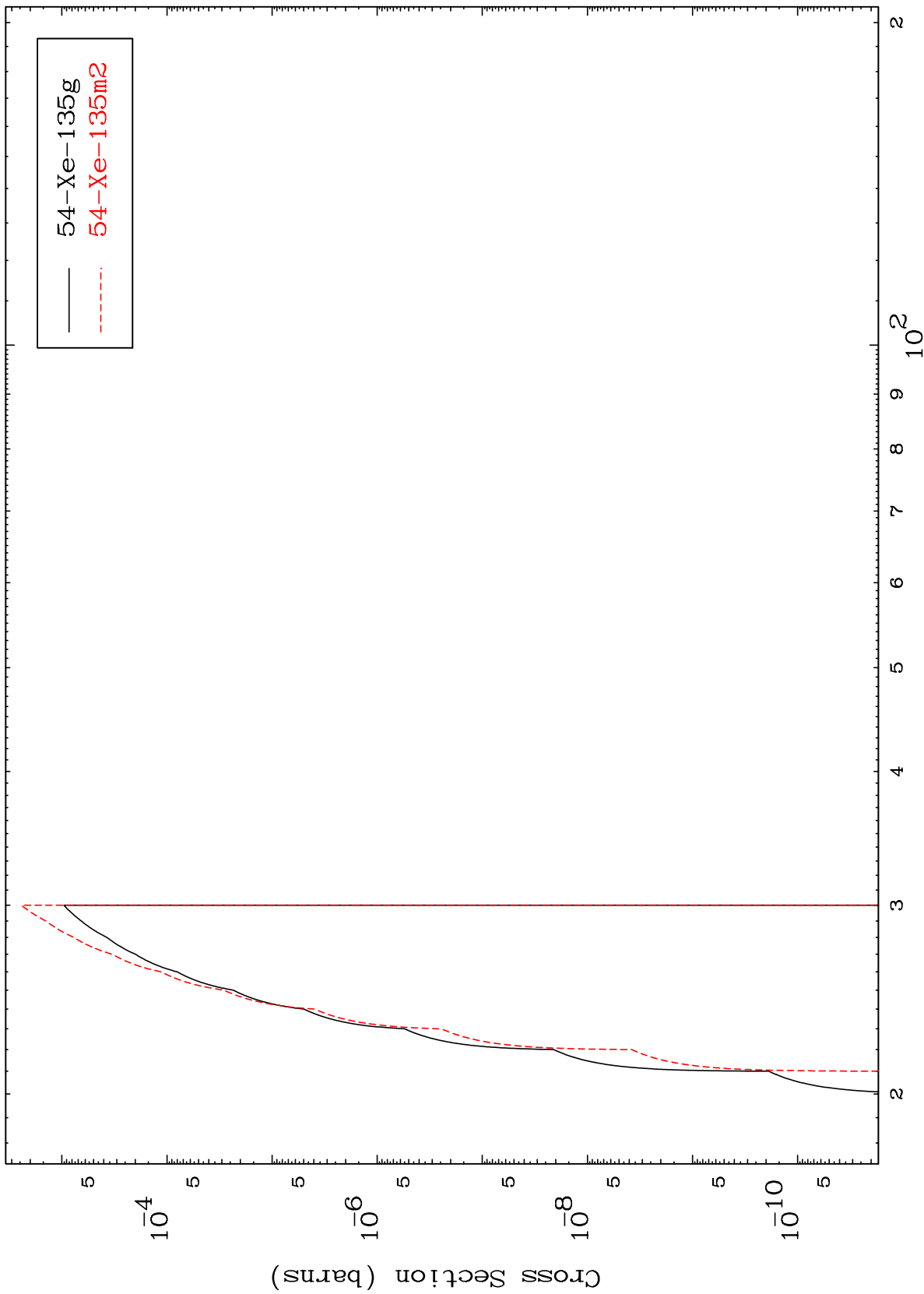
Incident Energy (MeV)

103

MAT 5540

55-Cs-138

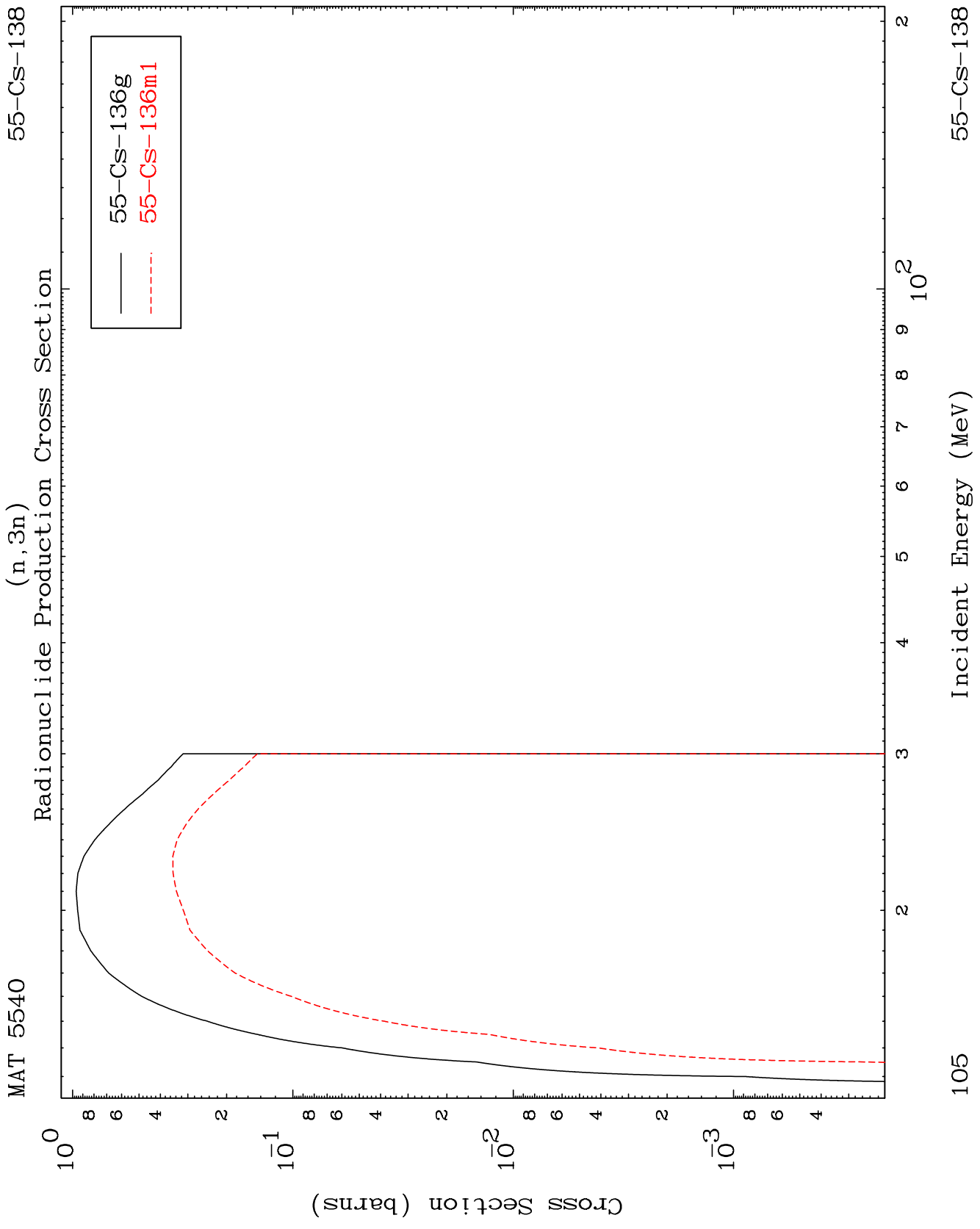
(n,2n) d
Radionuclide Production Cross Section



104

Incident Energy (MeV)

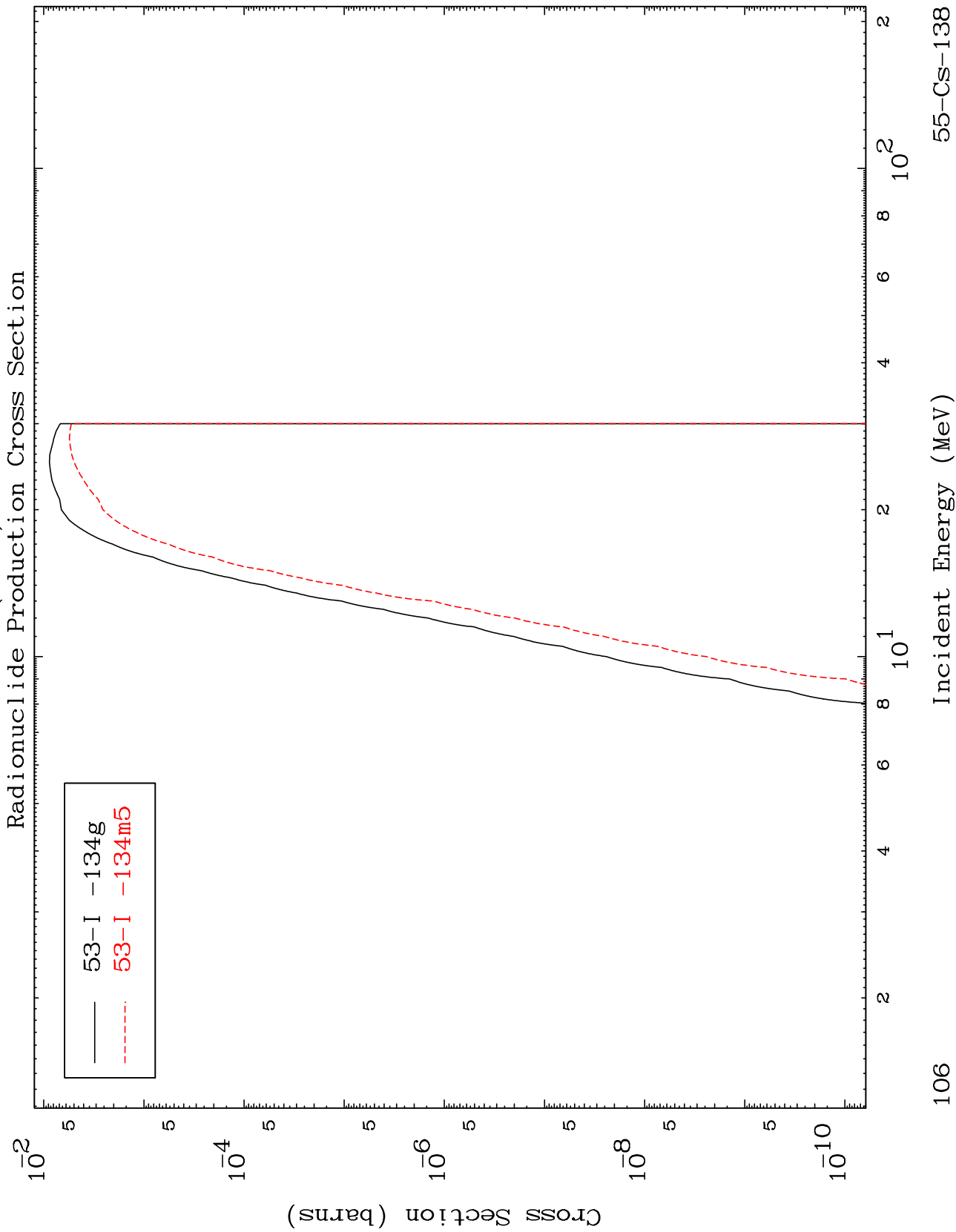
55-Cs-138



MAT 5540

(n,n') α

55-Cs-138



53-I -134g
53-I -134m5

106

Incident Energy (MeV)

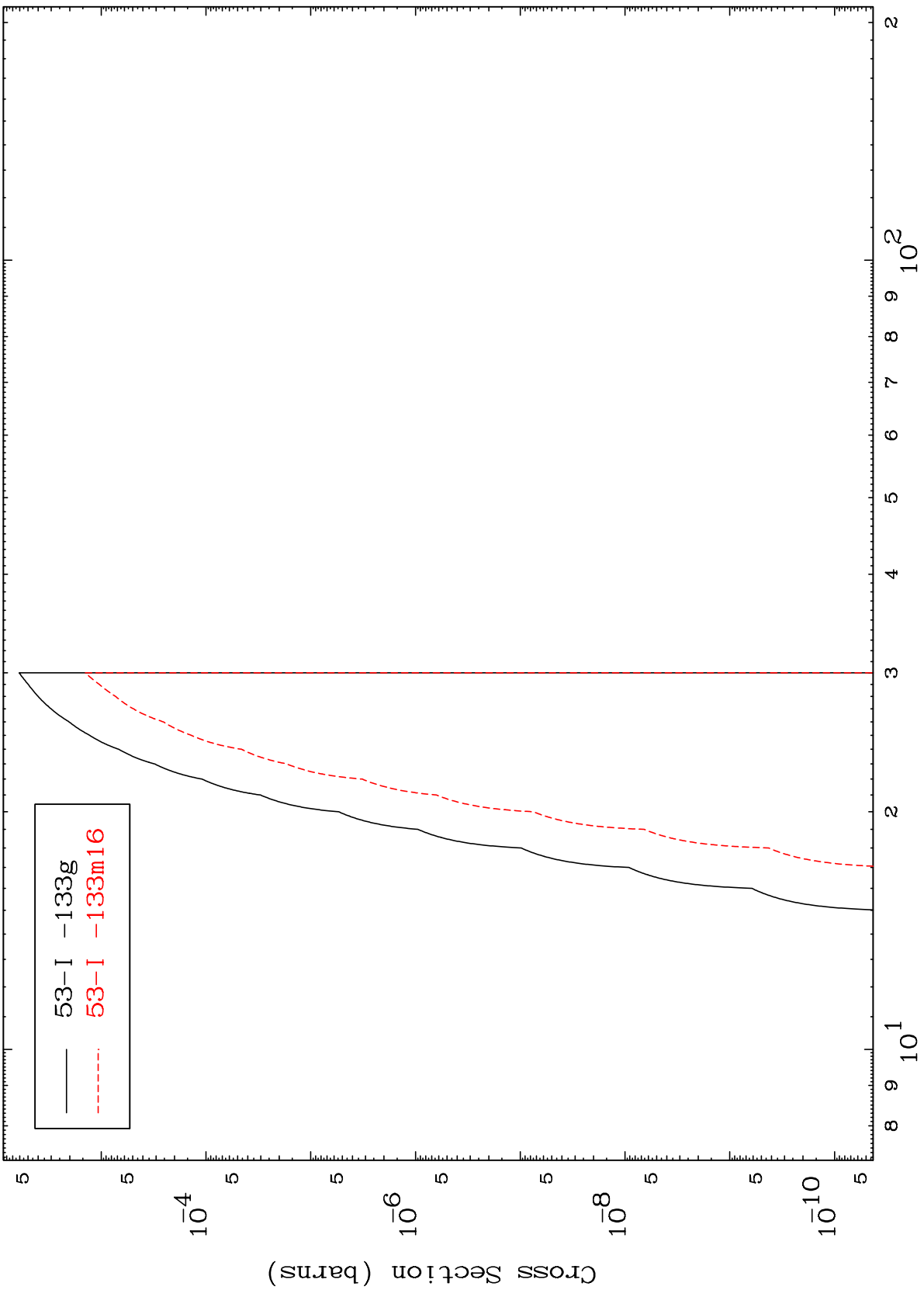
55-Cs-138

MAT 5540

(n,2n) α

55-Cs-138

Radionuclide Production Cross Section

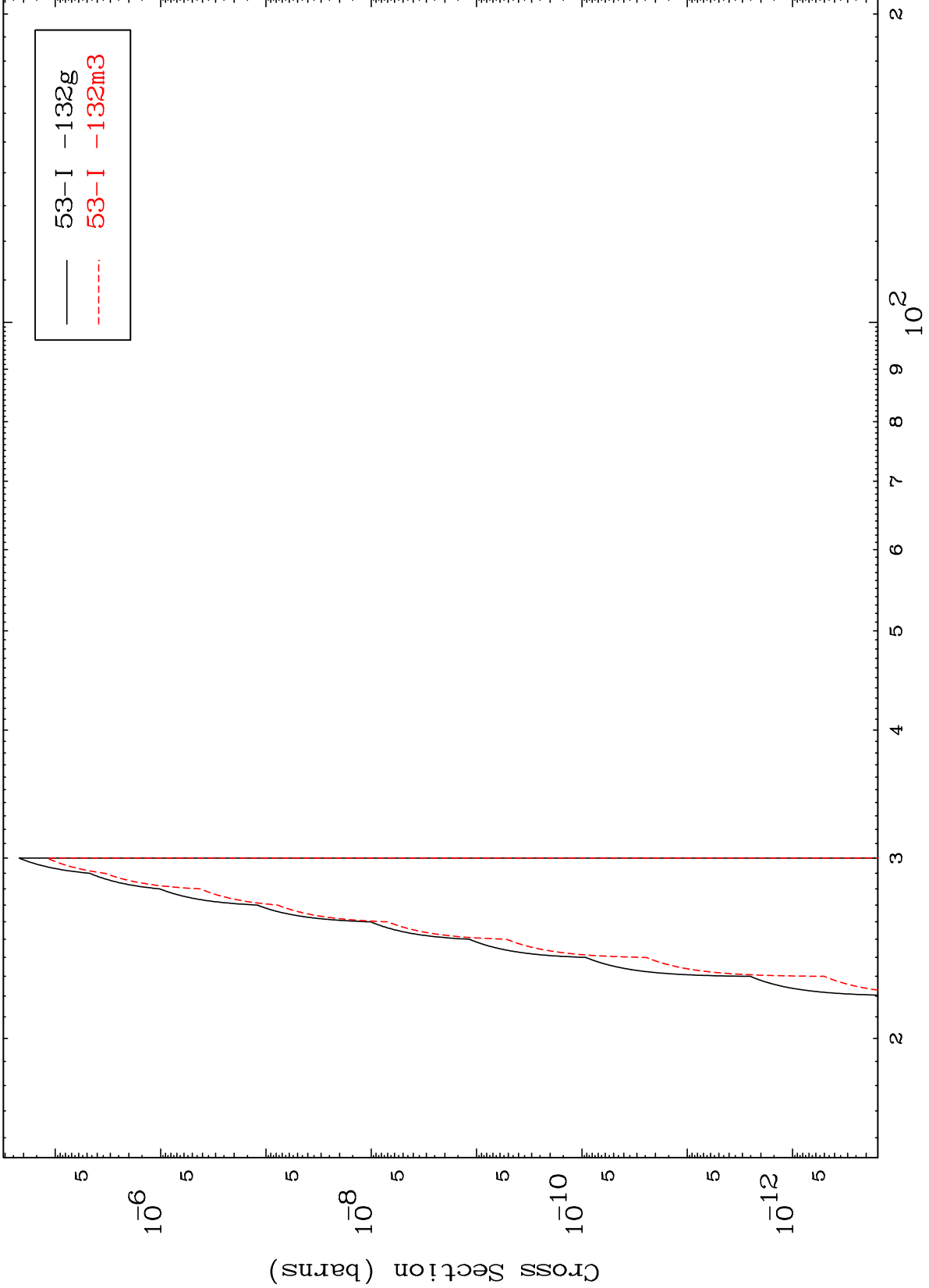


107

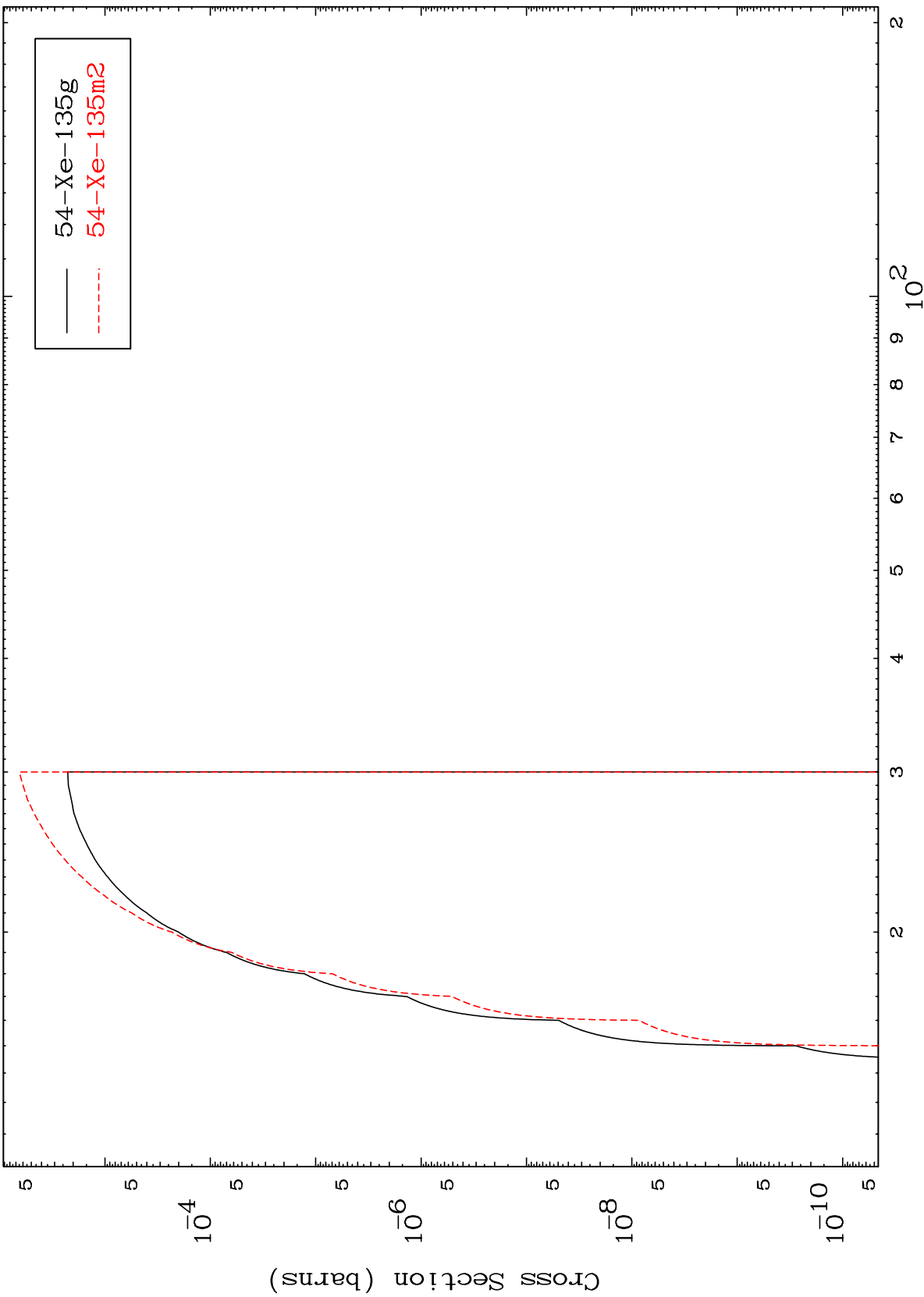
Incident Energy (MeV)

55-Cs-138

Radionuclide Production Cross Section



Radionuclide Production Cross Section

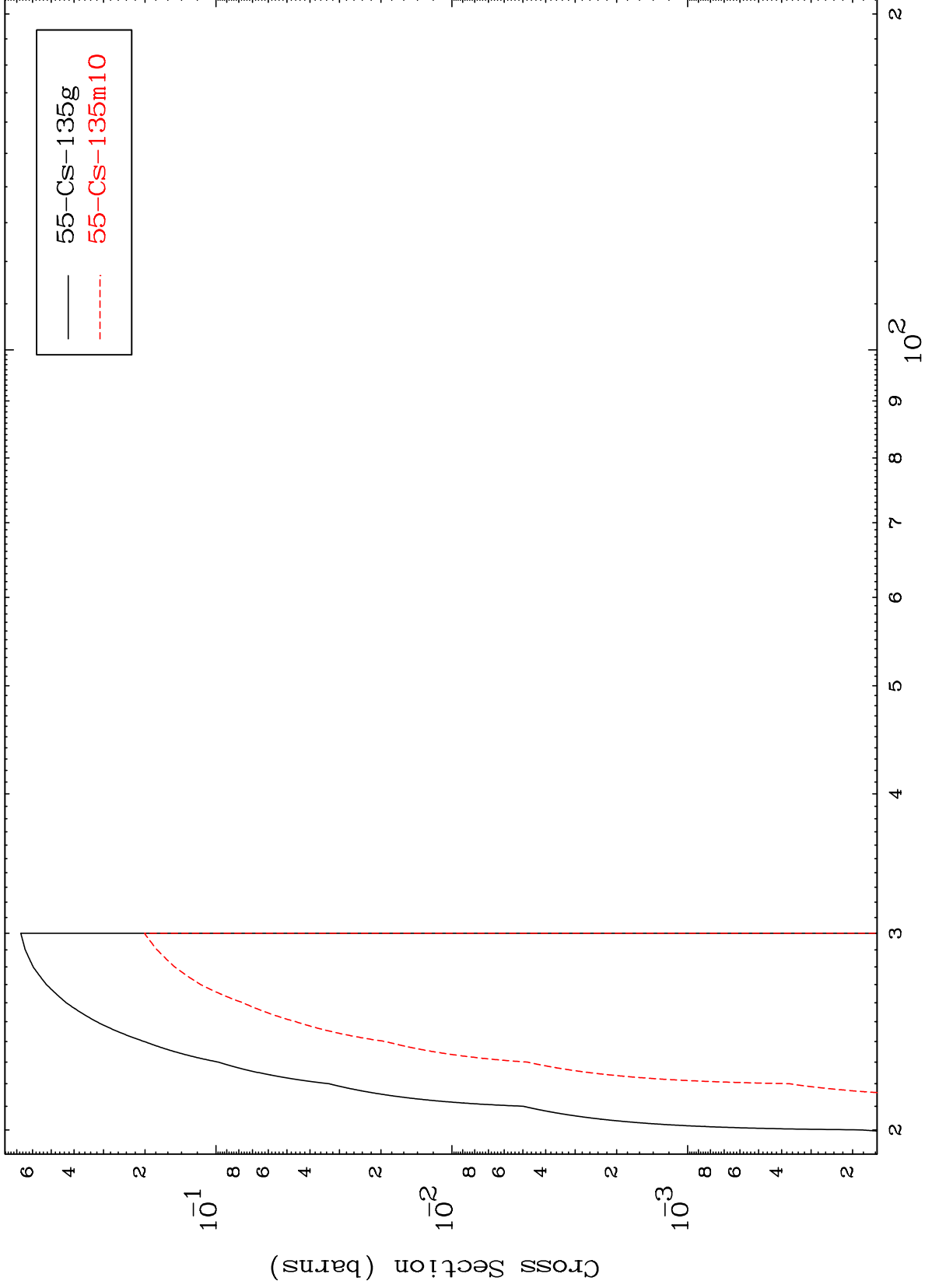


MAT 5540

(n,4n)

55-Cs-138

Radionuclide Production Cross Section



110

Incident Energy (MeV)

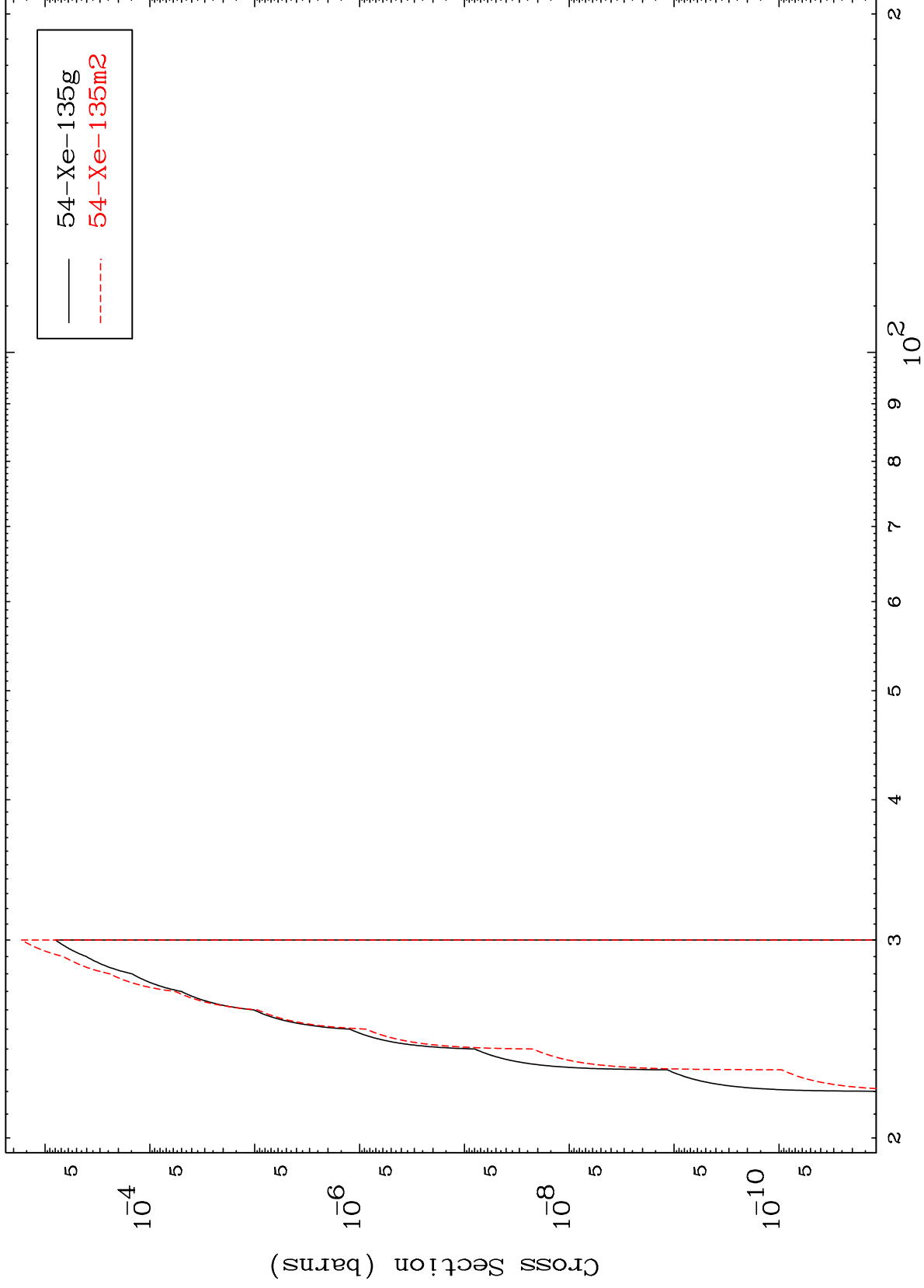
55-Cs-138

MAT 5540

(n,3n) p

55-Cs-138

Radionuclide Production Cross Section



111

Incident Energy (MeV)

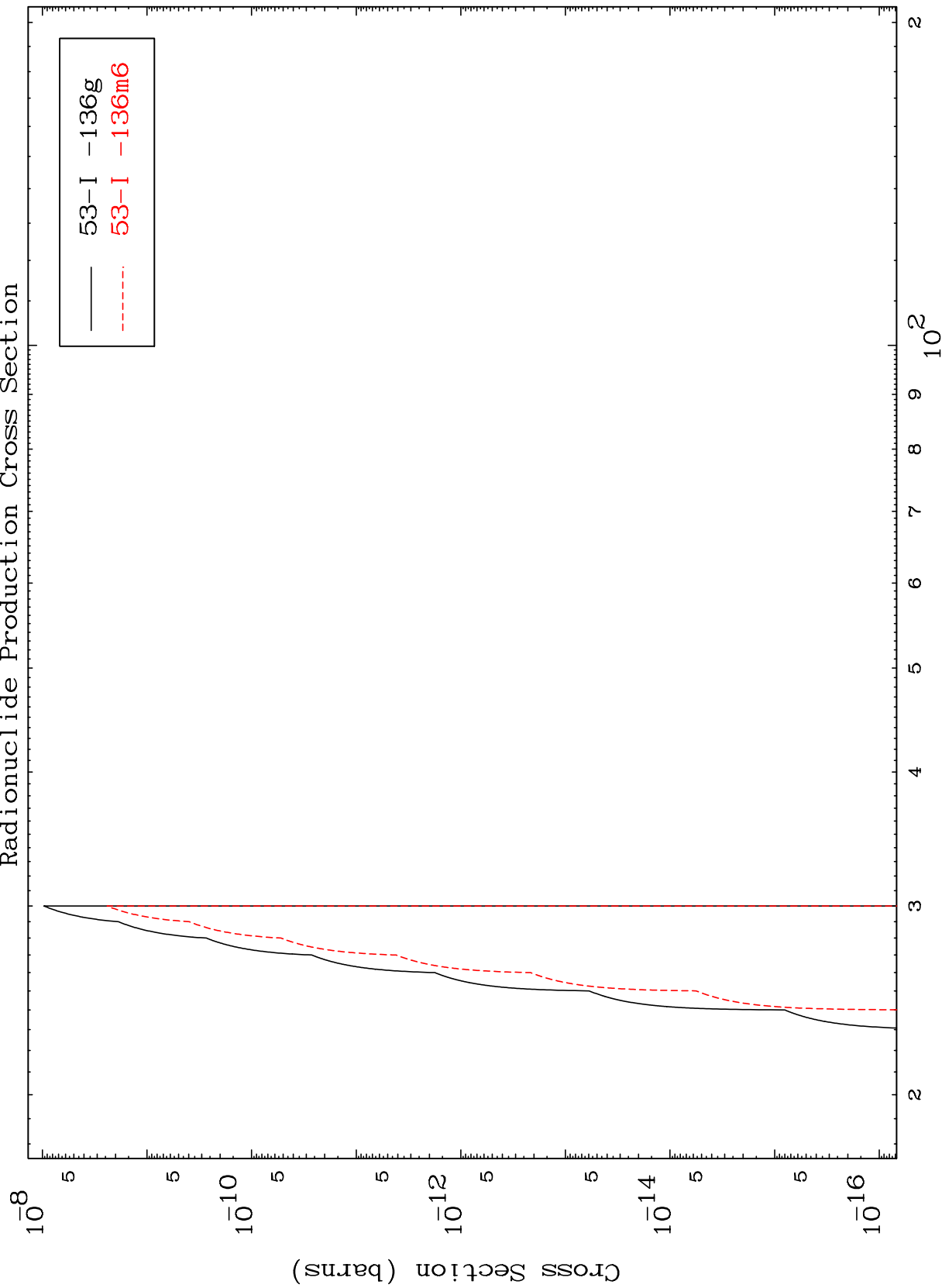
55-Cs-138

MAT 5540

(n,2n) p

55-Cs-138

Radionuclide Production Cross Section



112

Incident Energy (MeV)

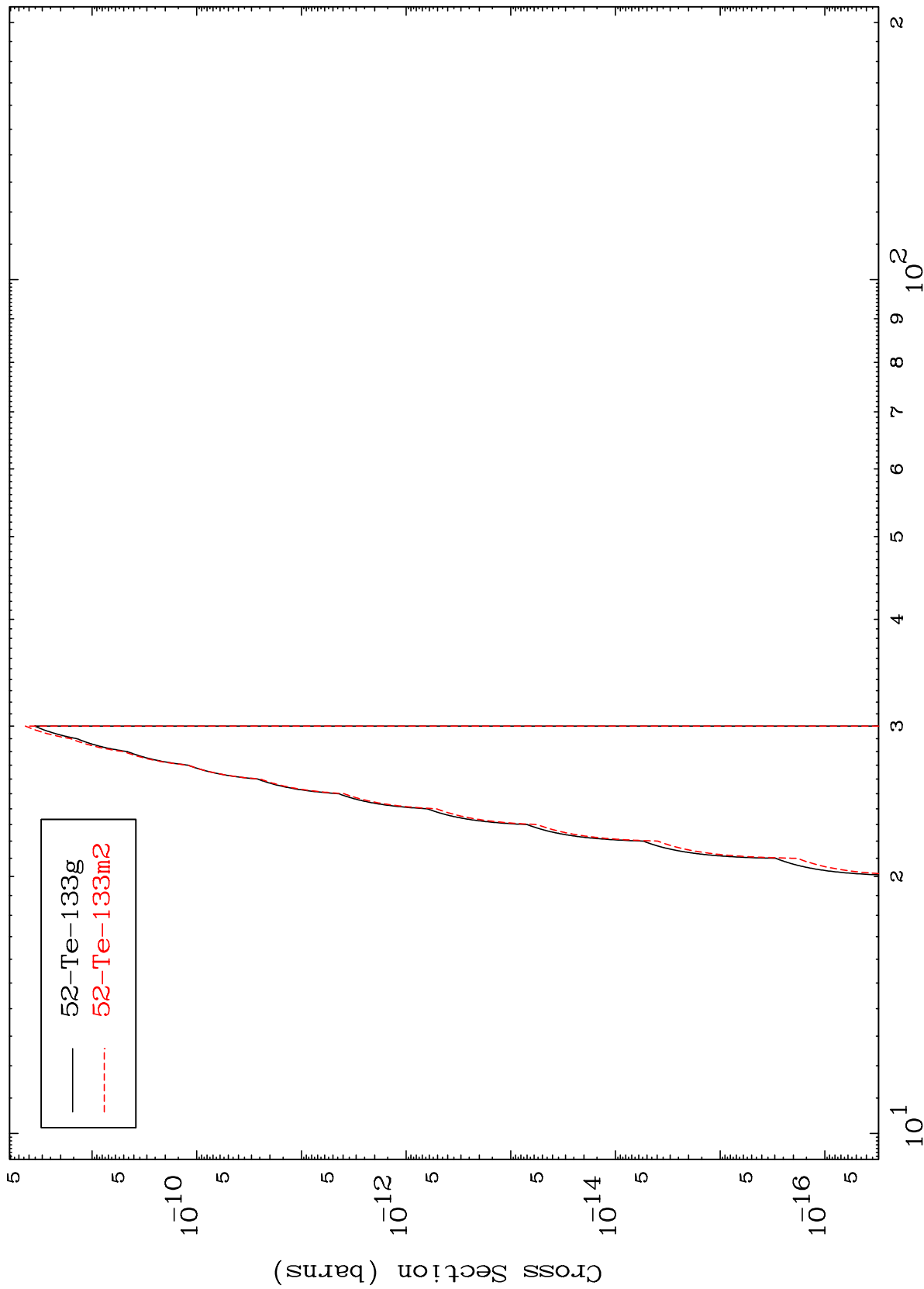
55-Cs-138

MAT 5540

(n,n') p α

55-Cs-138

Radionuclide Production Cross Section



52-Te-133g
52-Te-133m2

Incident Energy (MeV)

55-Cs-138

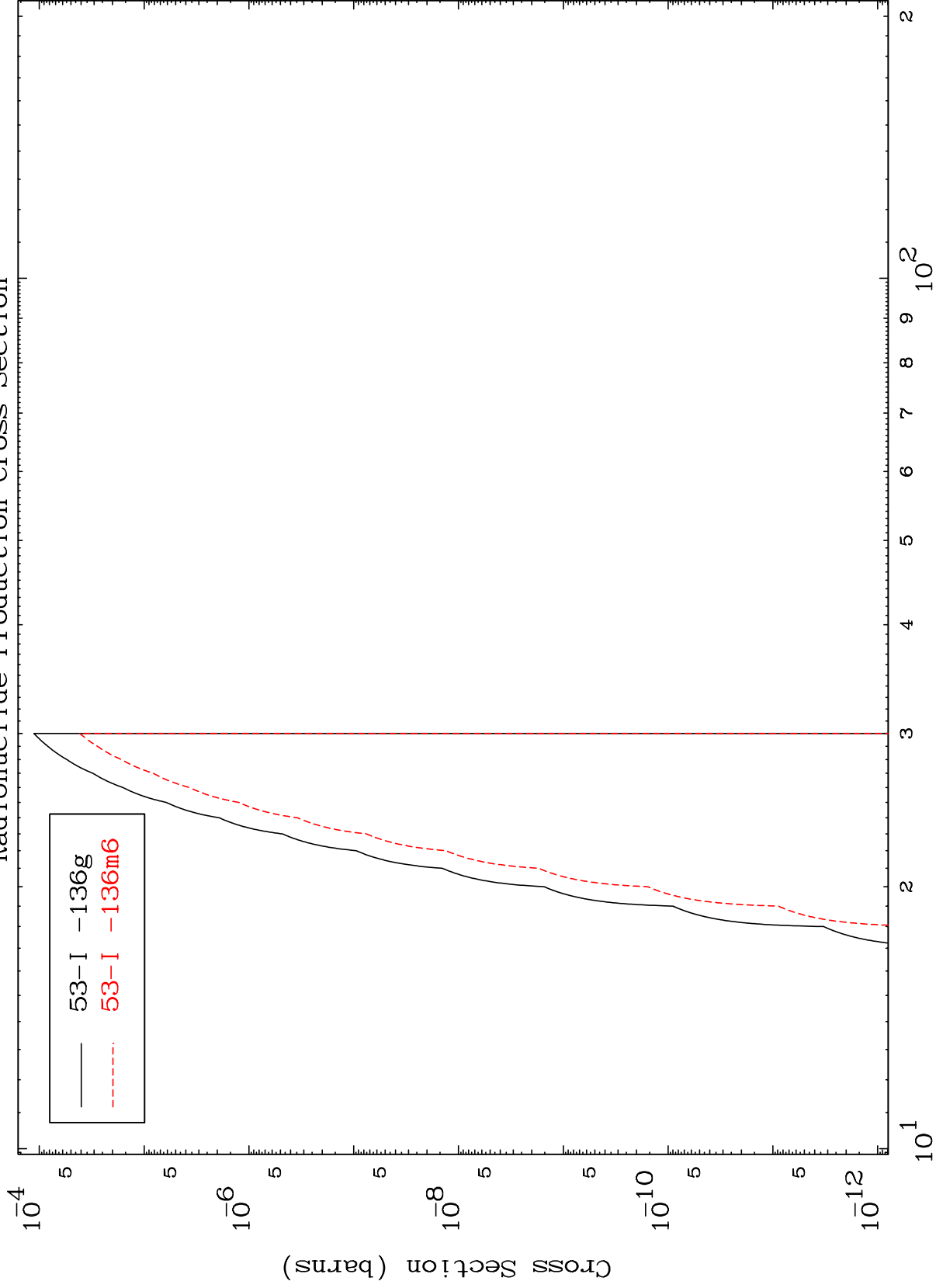
113

MAT 5540

(n,He-3)

55-Cs-138

Radionuclide Production Cross Section



114

Incident Energy (MeV)

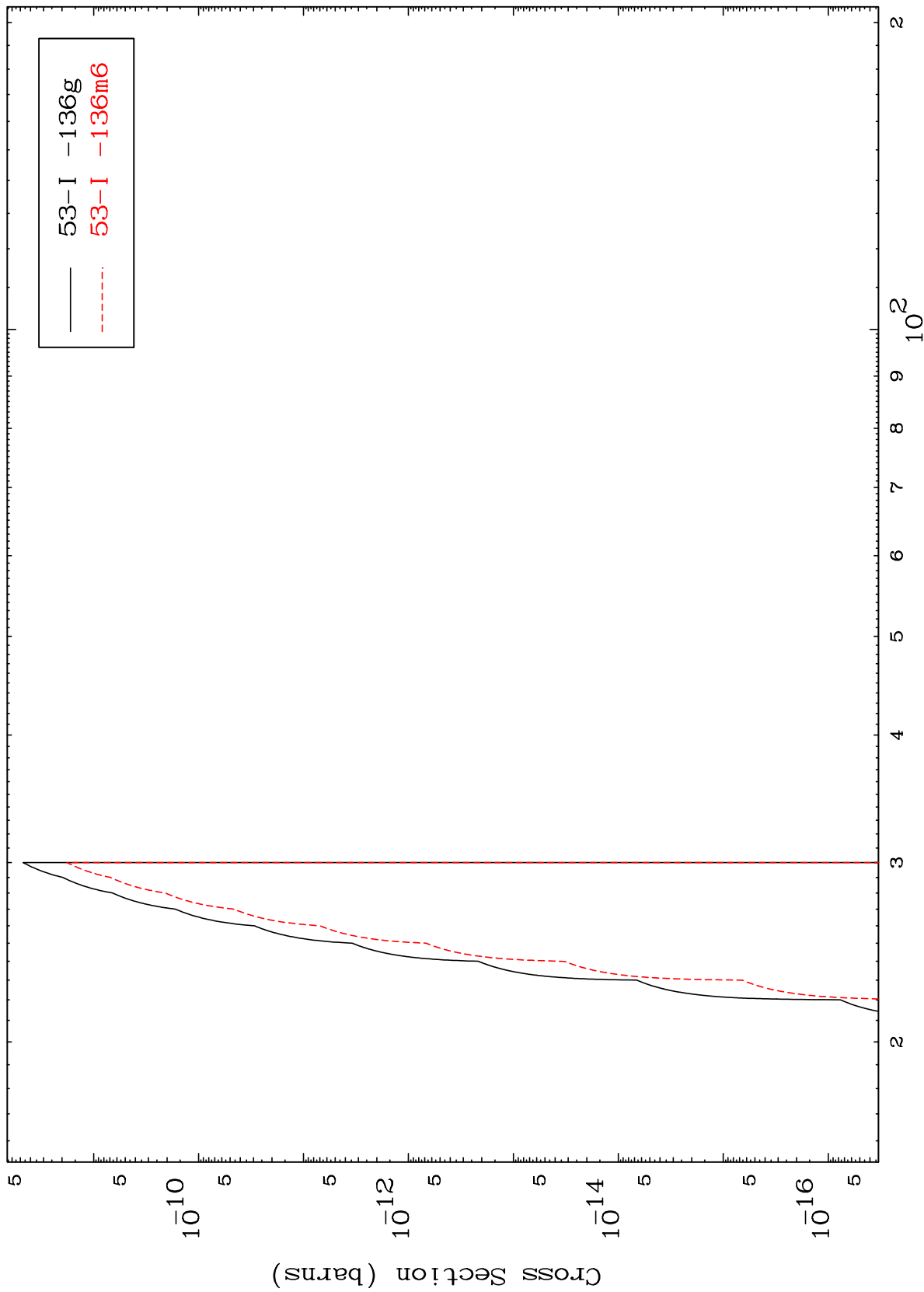
55-Cs-138

MAT 5540

(n,p) d

55-Cs-138

Radionuclide Production Cross Section



115

Incident Energy (MeV)

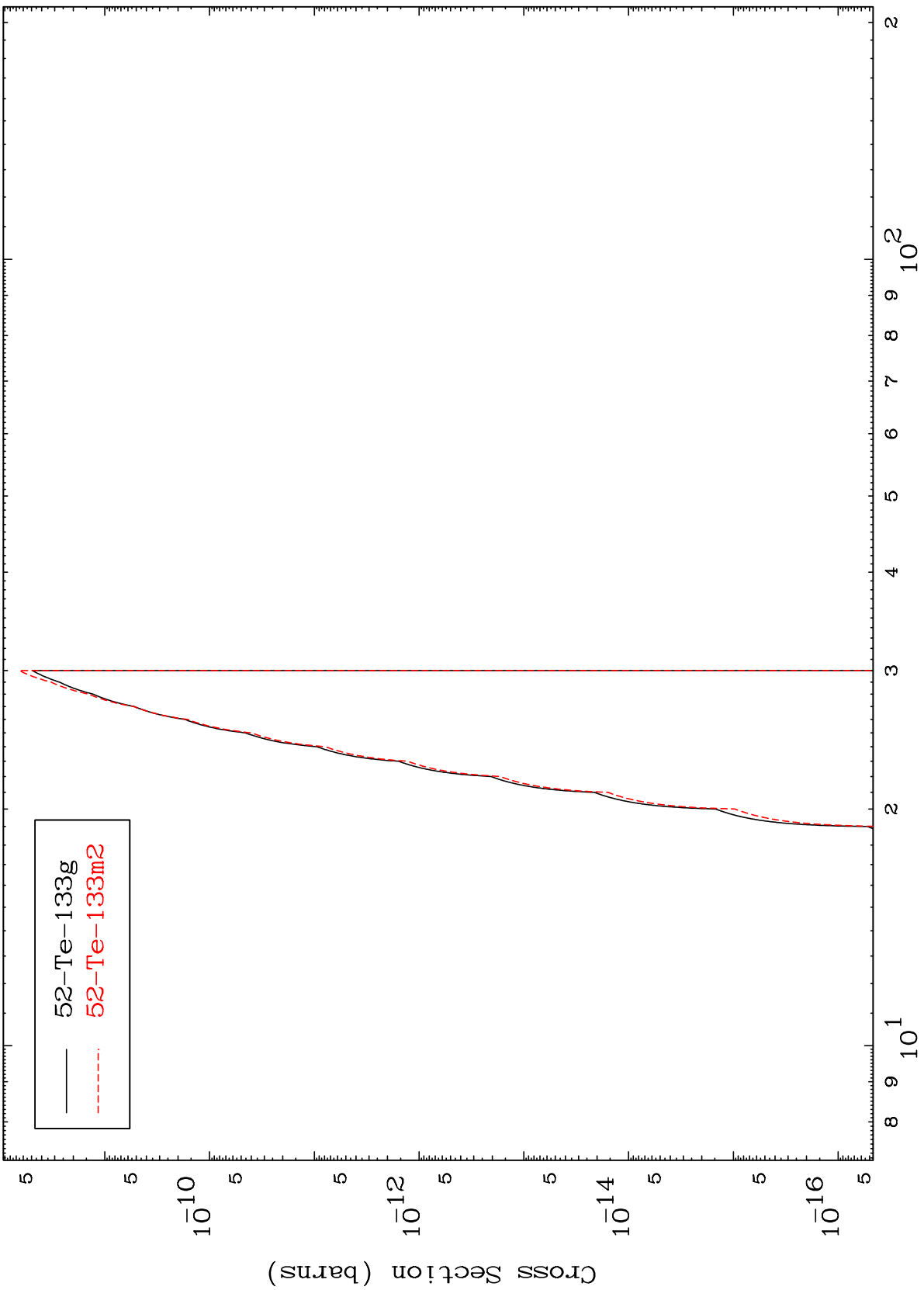
55-Cs-138

MAT 5540

(n,d) α

55-Cs-138

Radionuclide Production Cross Section



116

Incident Energy (MeV)

55-Cs-138