

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

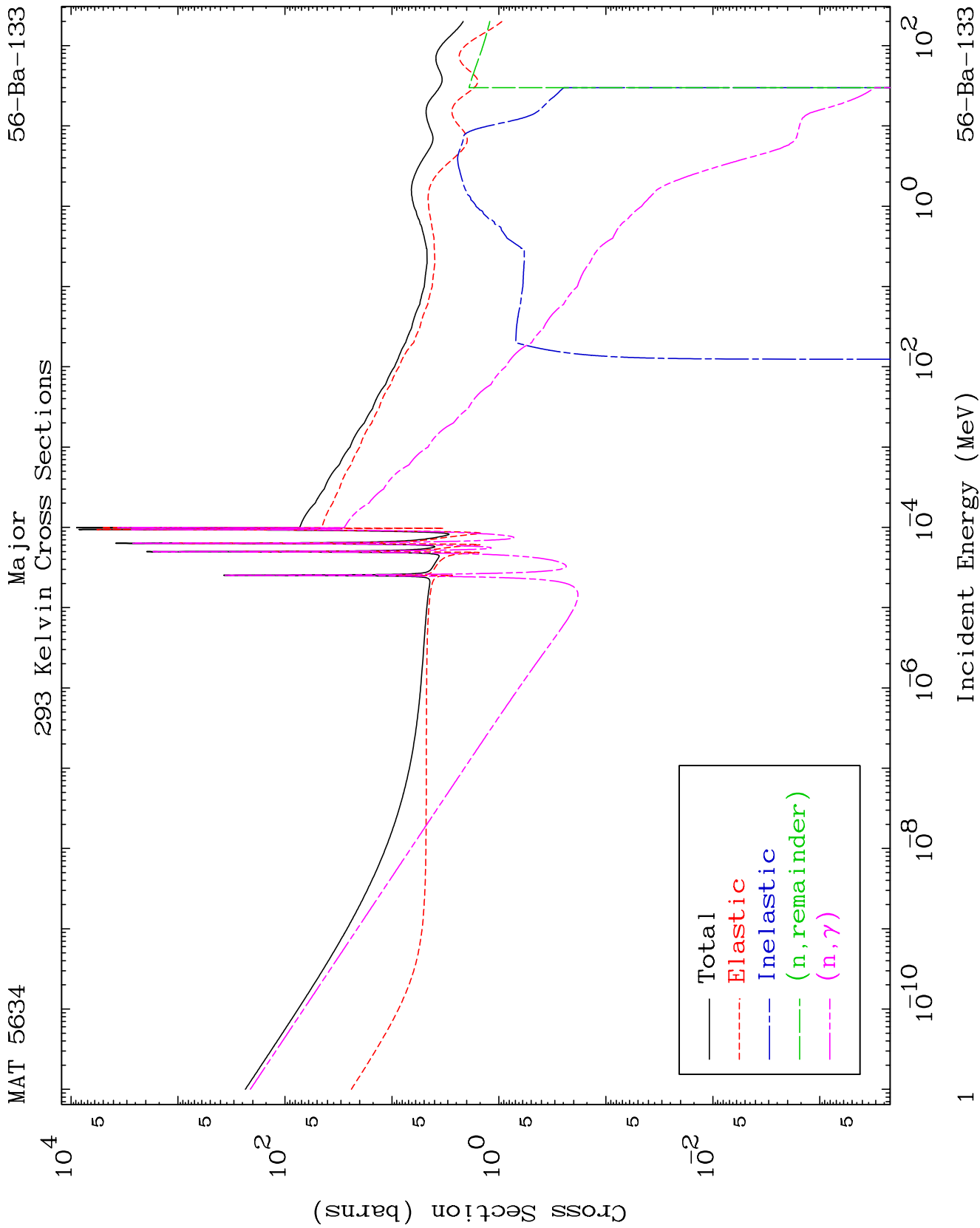
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

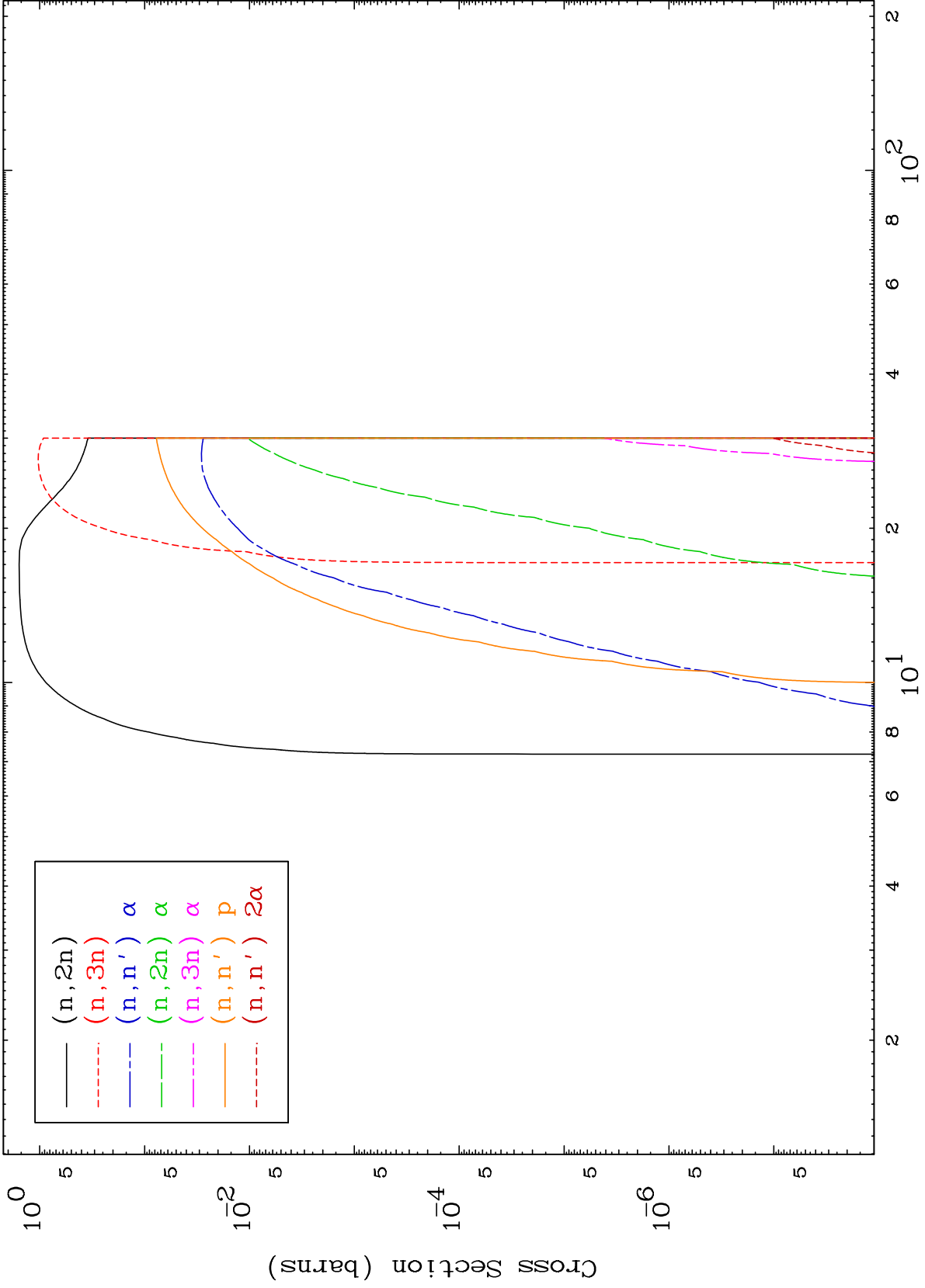
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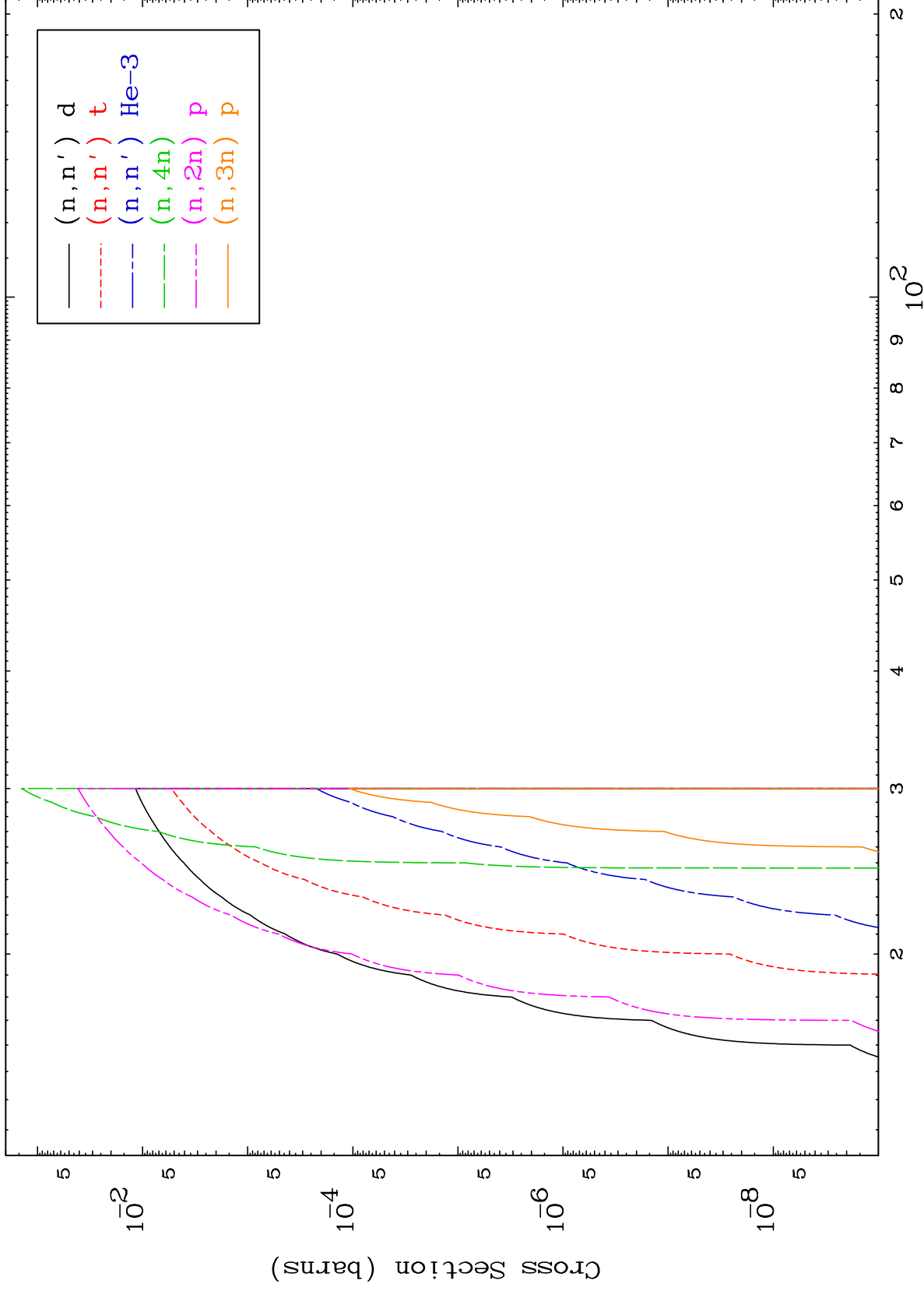


MAT 5634

Neutron Production
293 Kelvin Cross Sections

56-Ba-133

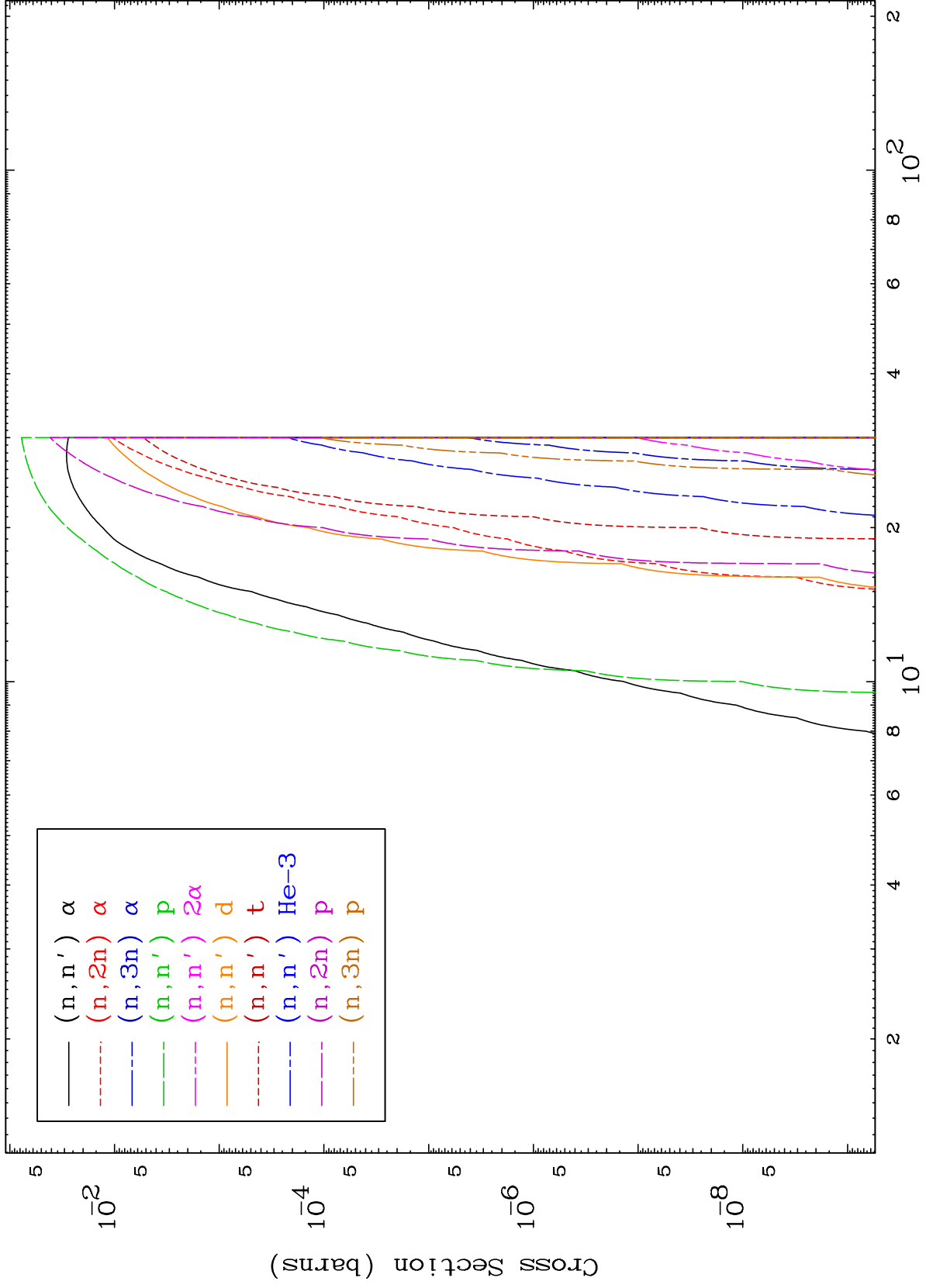




MAT 5634

Charged Particle
293 Kelvin Cross Sections

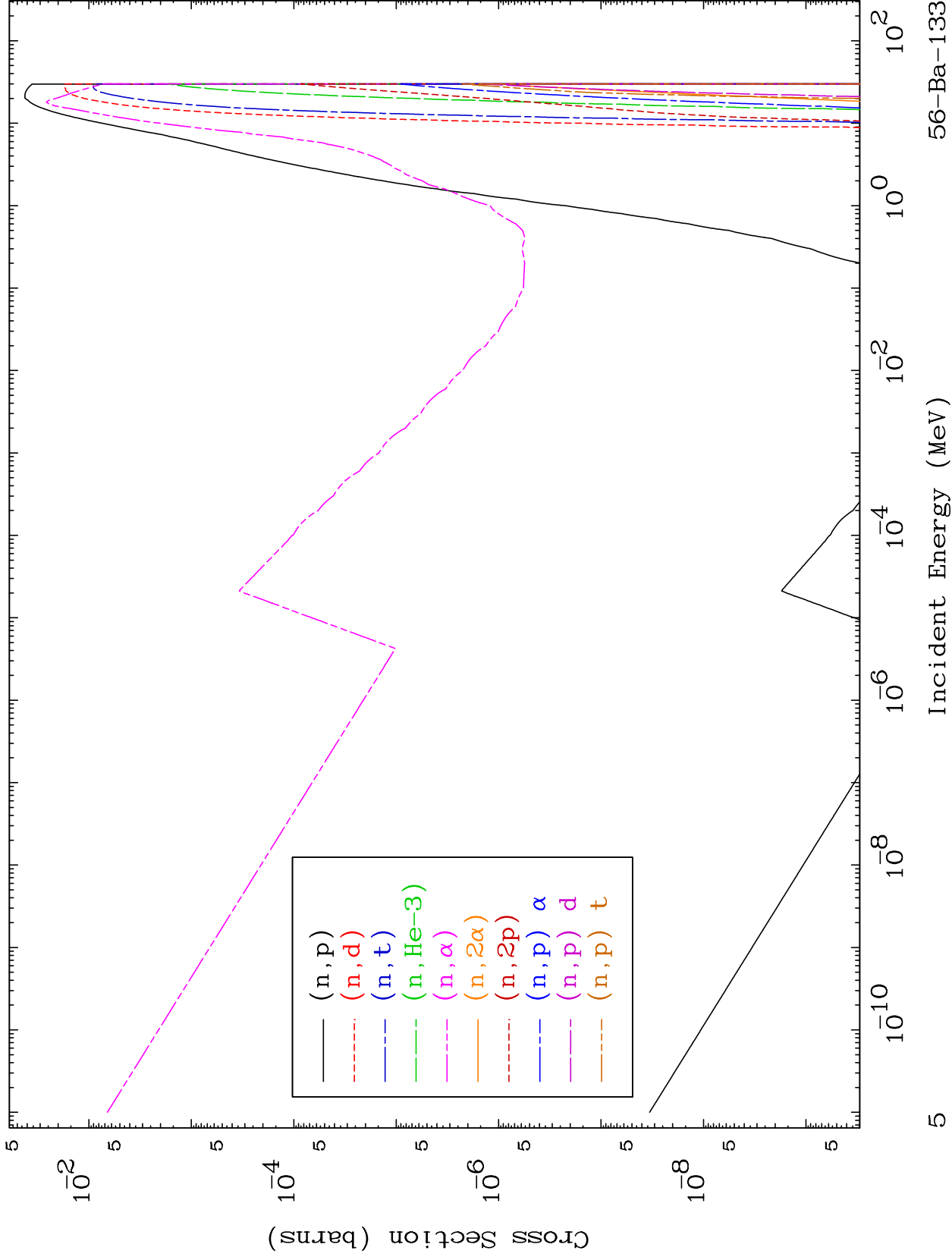
56-Ba-133



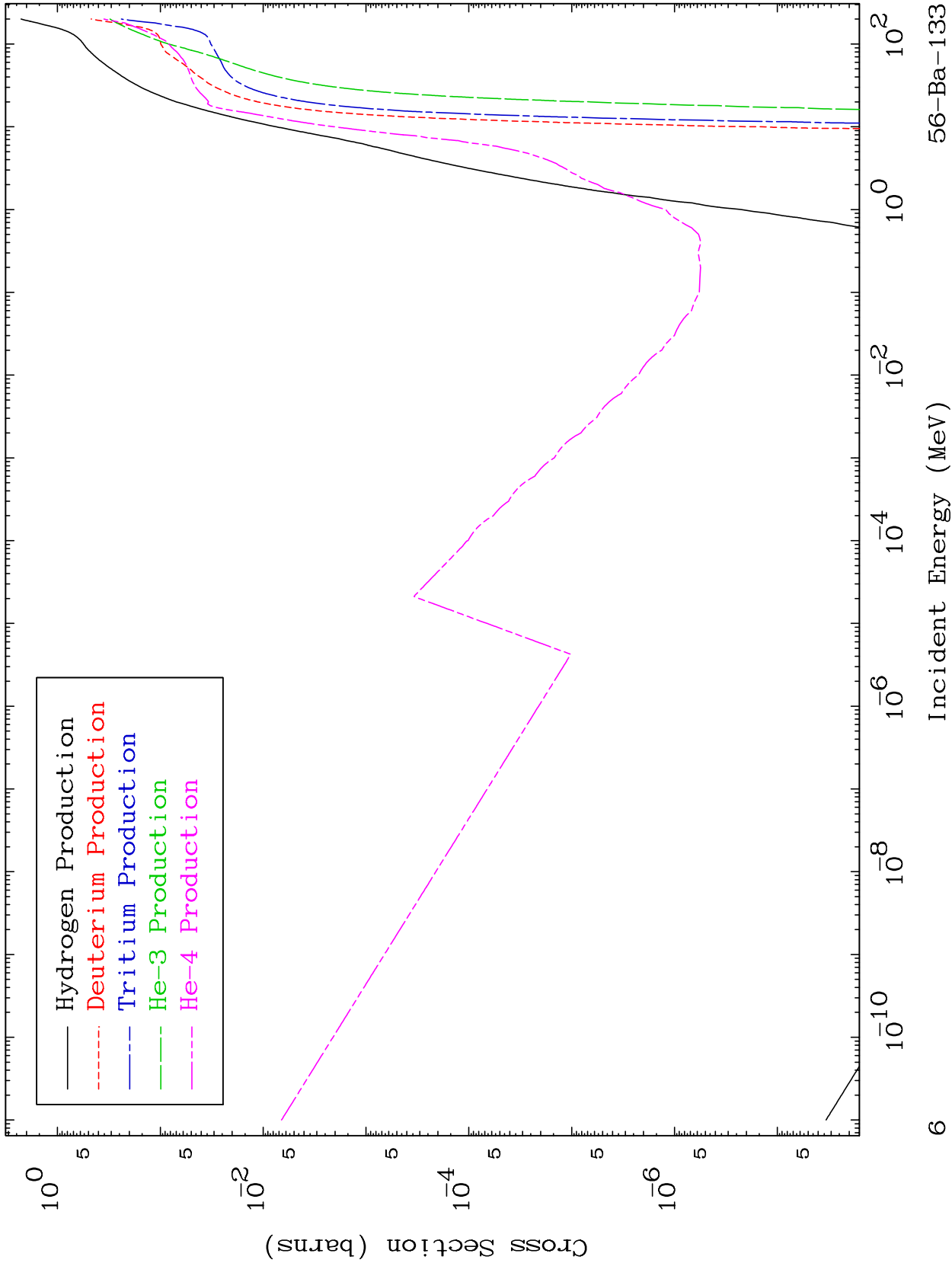
MAT 5634

Charged Particle
293 Kelvin Cross Sections

56-Ba-133



5

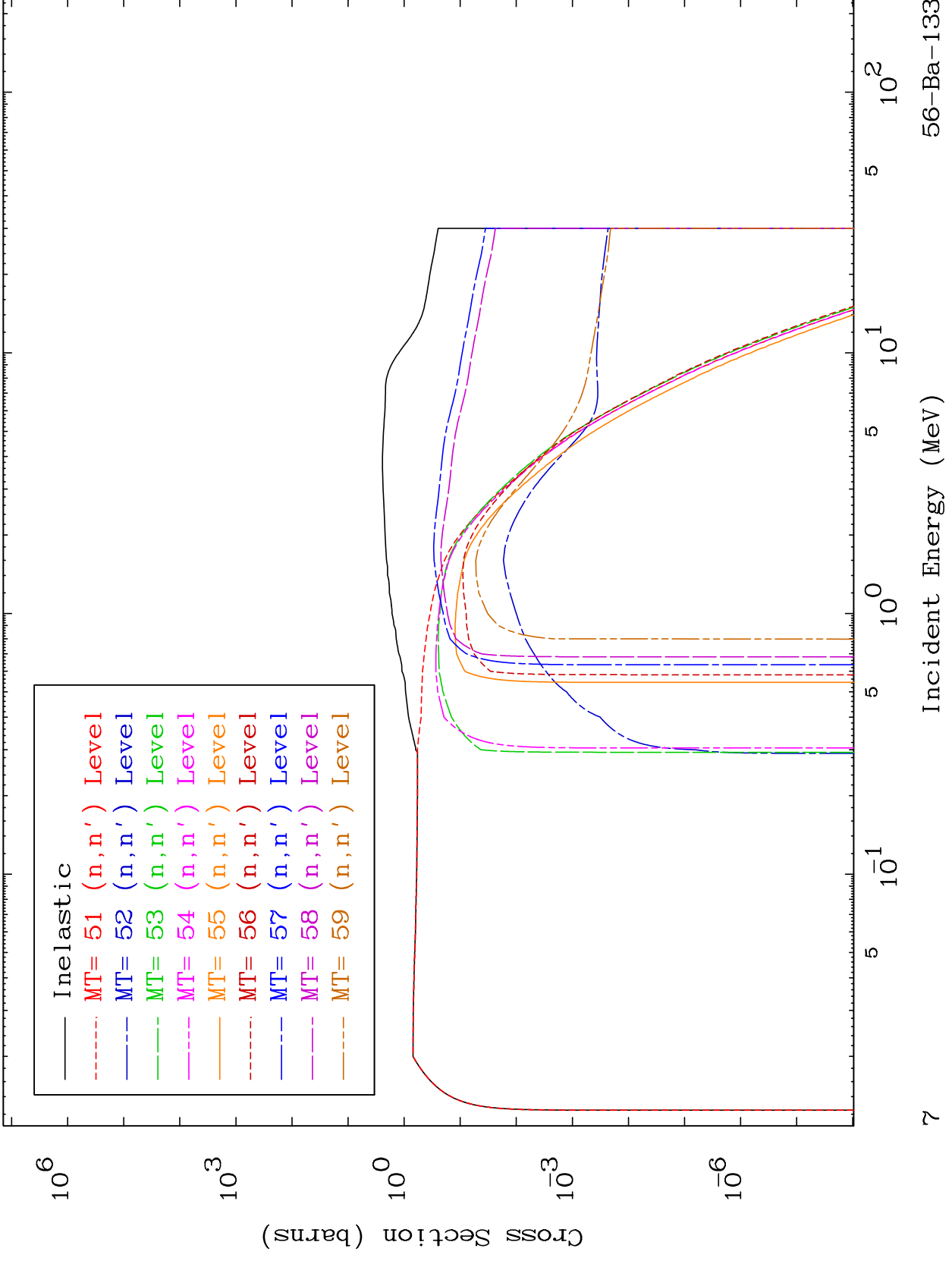


MAT 5634

(n,n') Level

56-Ba-133

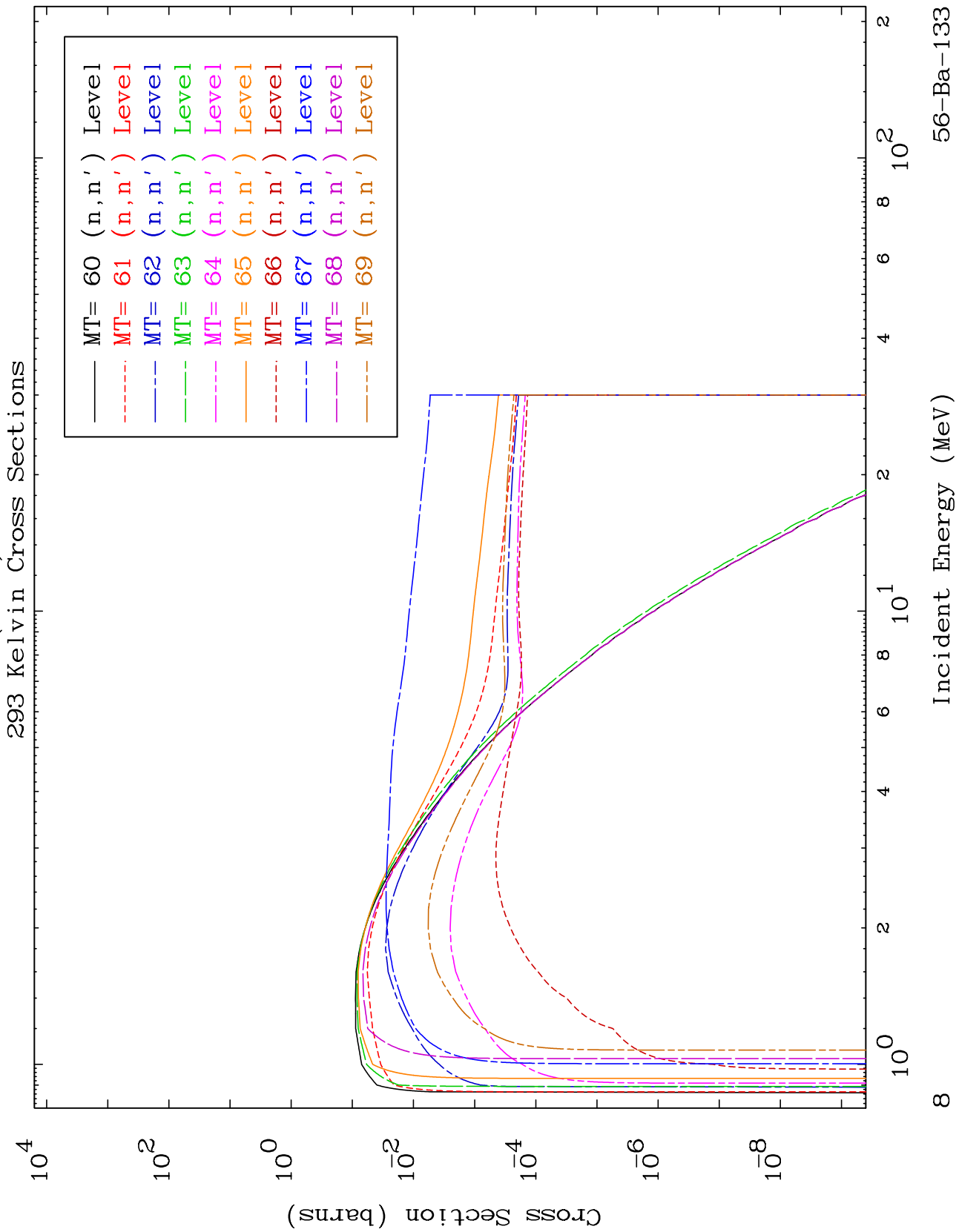
293 Kelvin Cross Sections



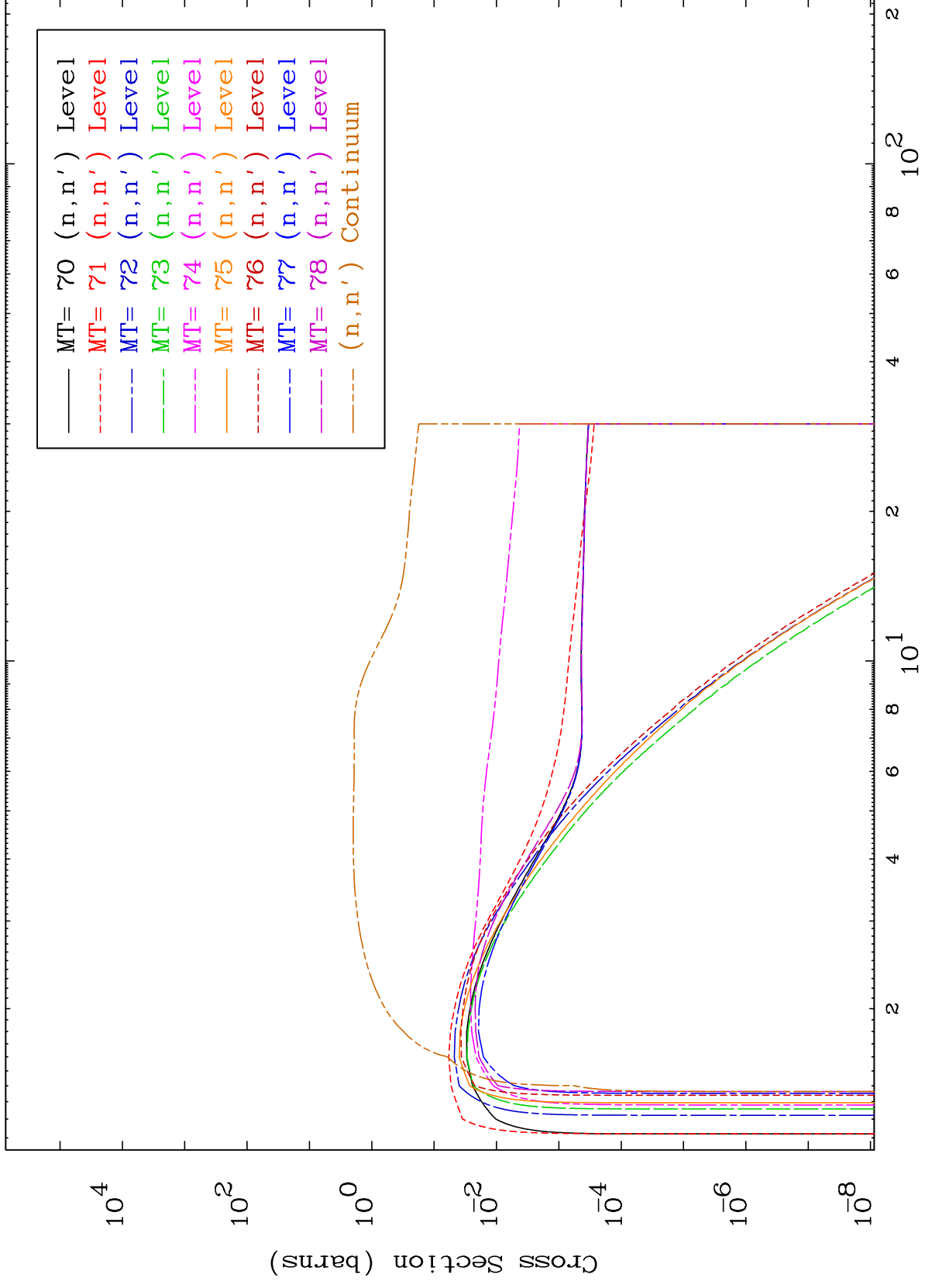
MAT 5634

(n,n') Level

56-Ba-133



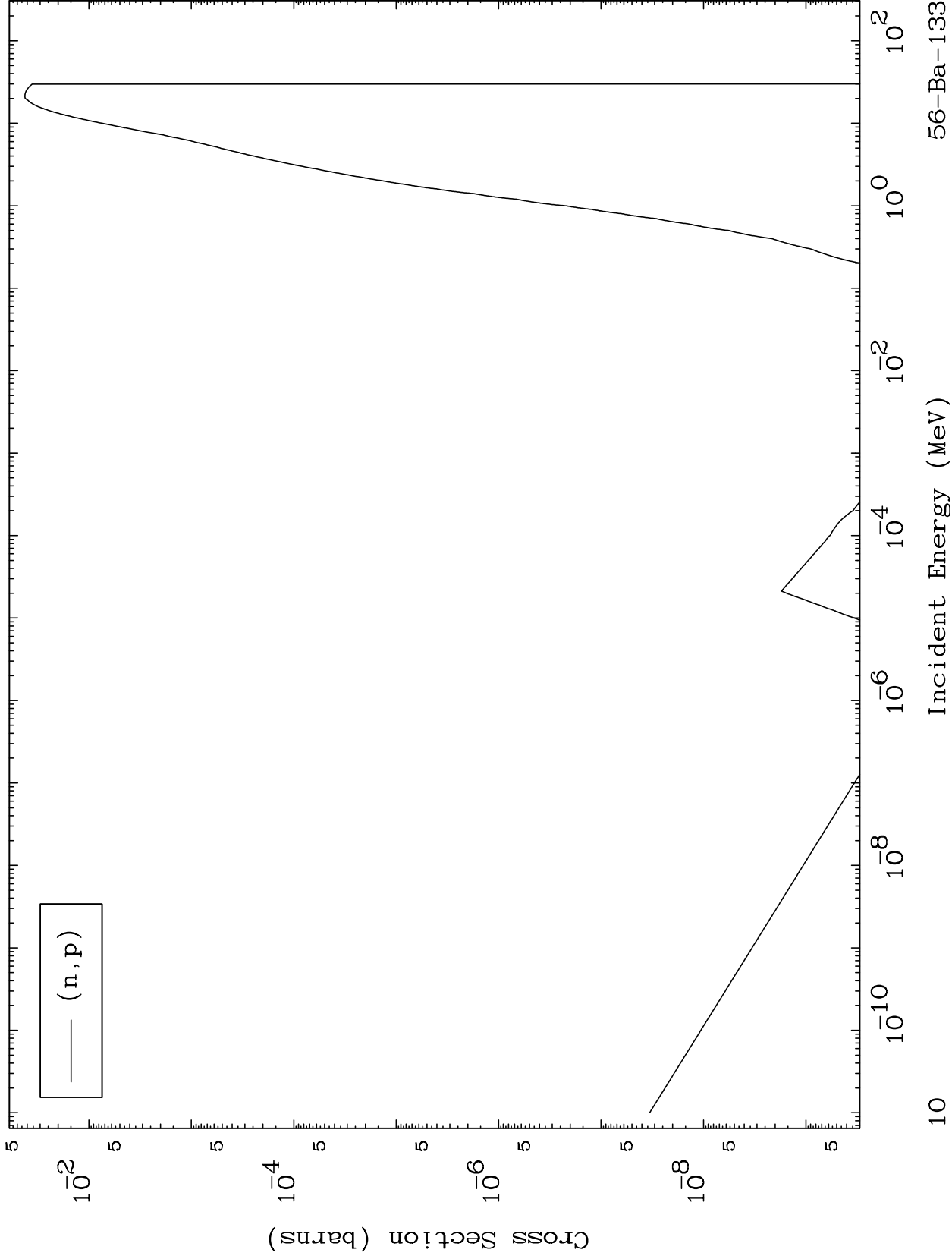
293 Kelvin Cross Sections



MAT 5634

(n,p) Levels
293 Kelvin Cross Sections

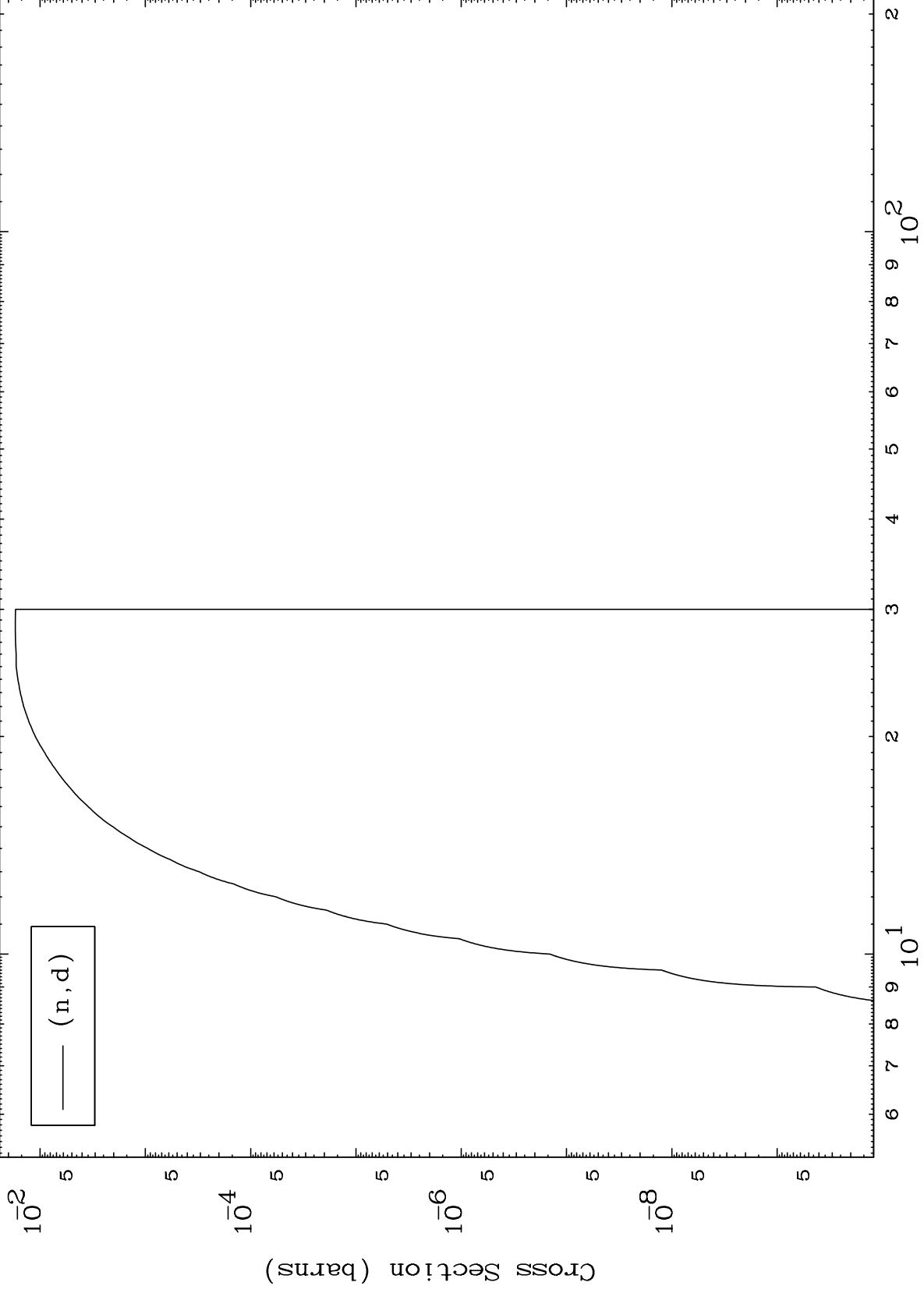
56-Ba-133



MAT 5634

(n,d) Levels
293 Kelvin Cross Sections

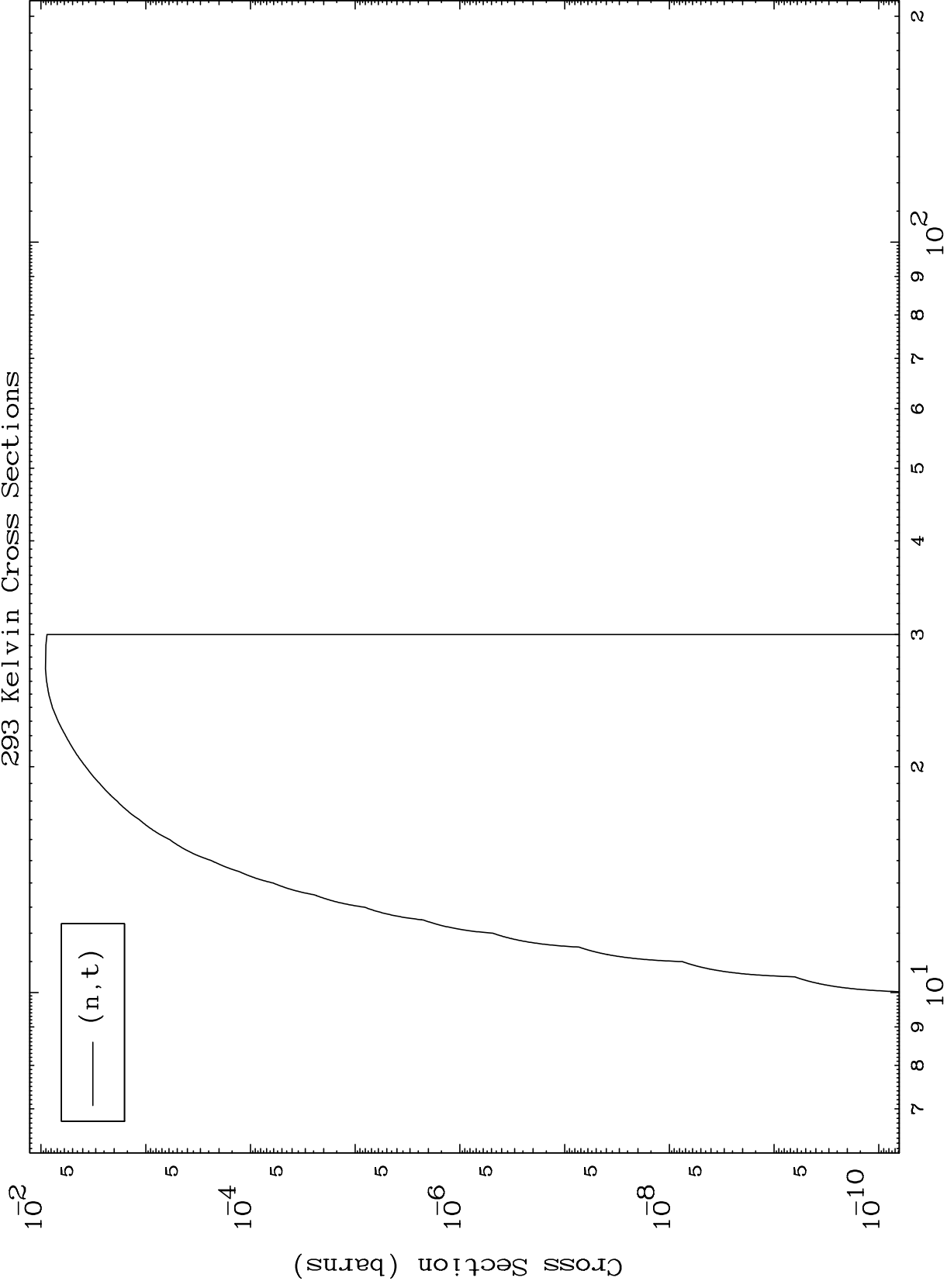
56-Ba-133



MAT 5634

(n, t) Levels
293 Kelvin Cross Sections

56-Ba-133



12

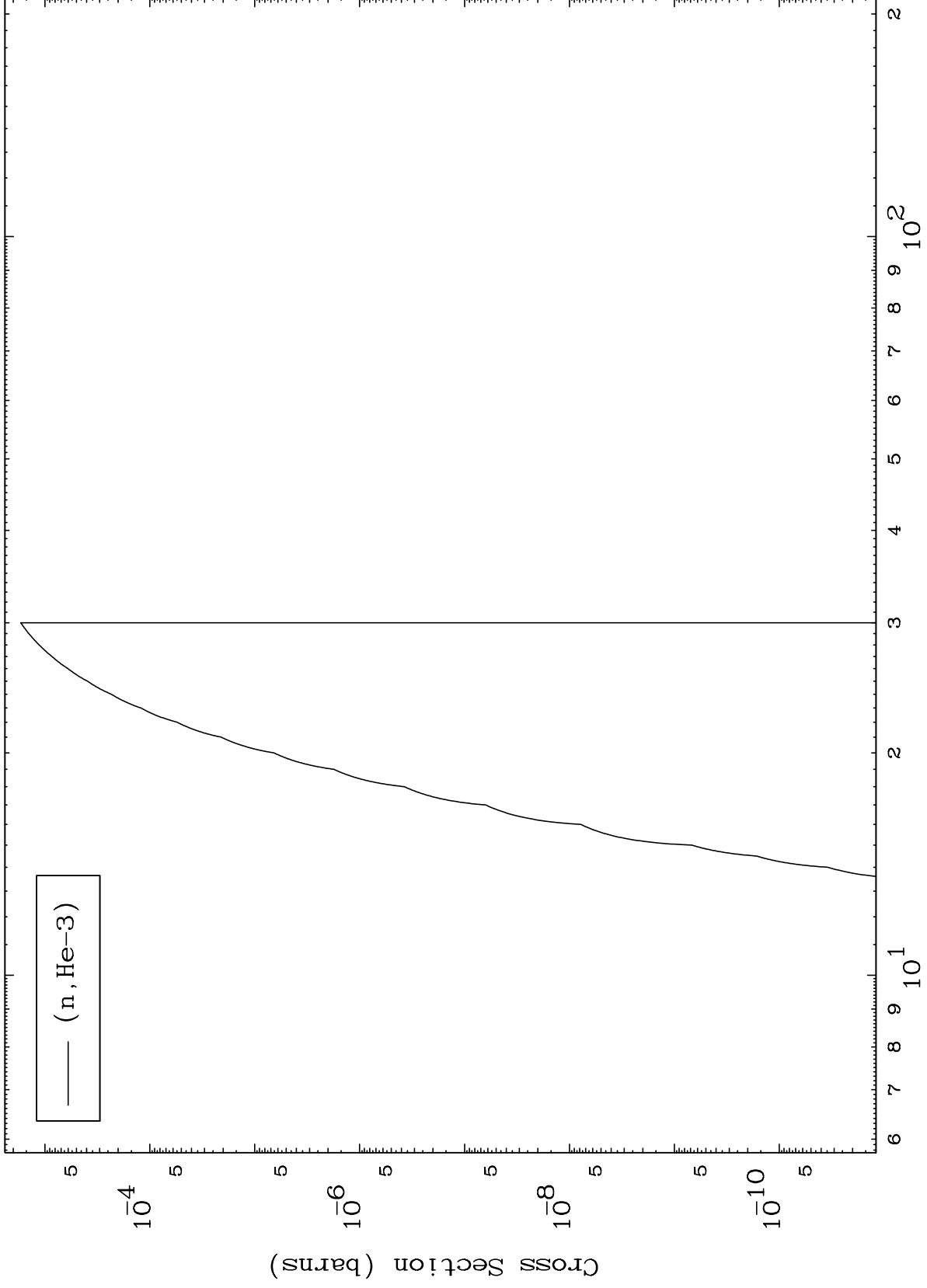
Incident Energy (MeV)

56-Ba-133

MAT 5634

(n,He3) Levels
293 Kelvin Cross Sections

56-Ba-133



13

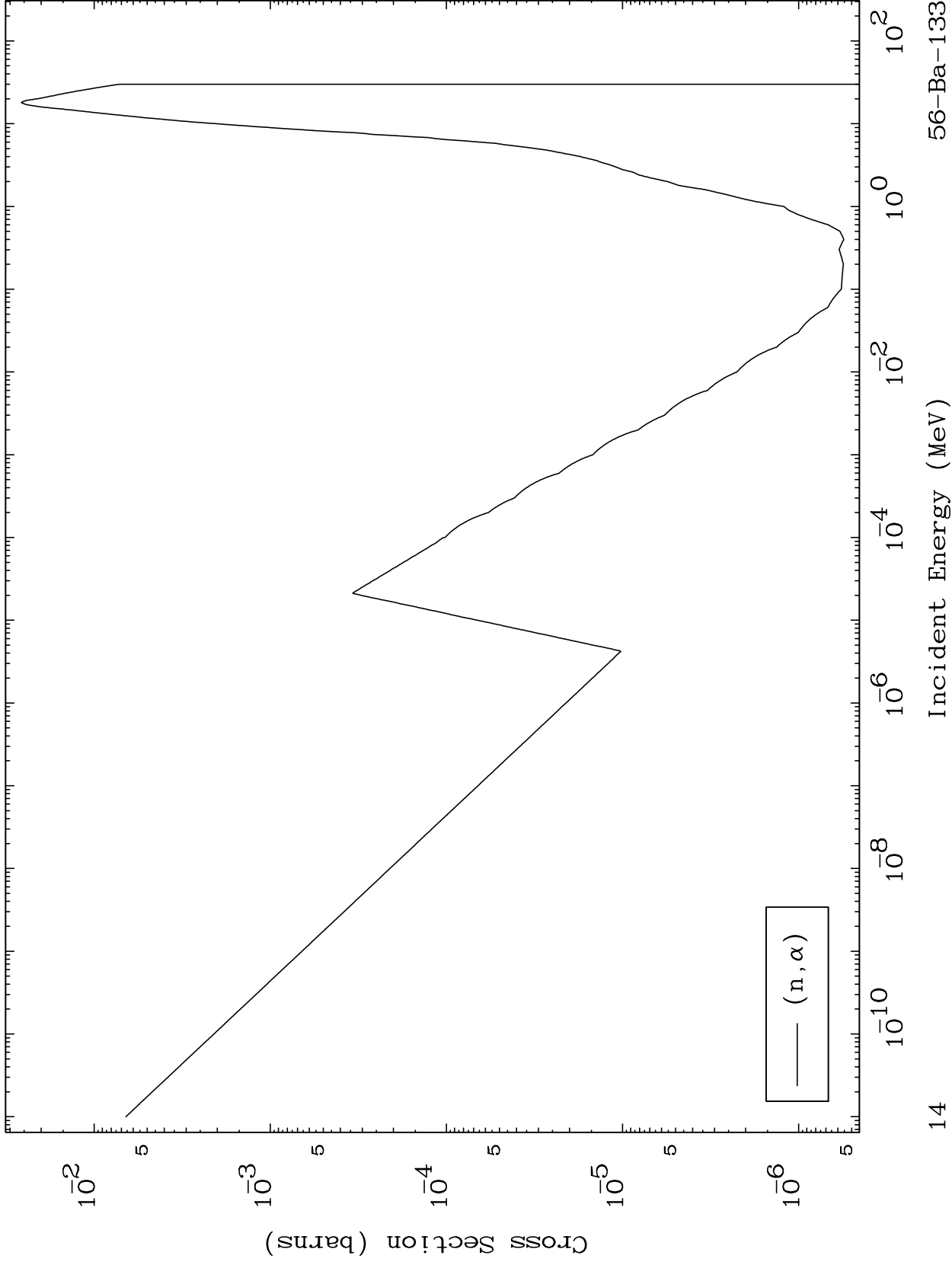
Incident Energy (MeV)

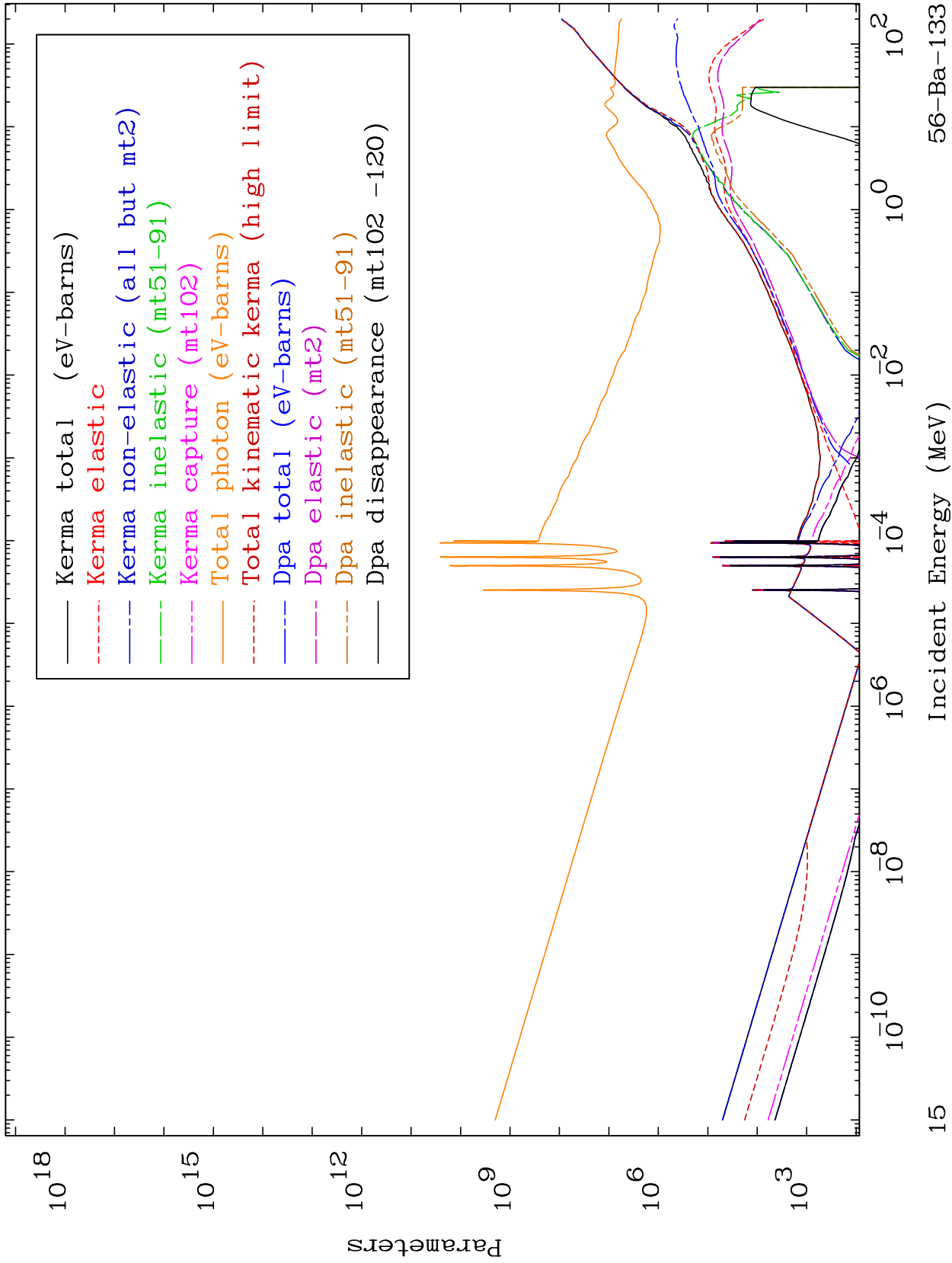
56-Ba-133

MAT 5634

(n, α) Levels
293 Kelvin Cross Sections

56-Ba-133

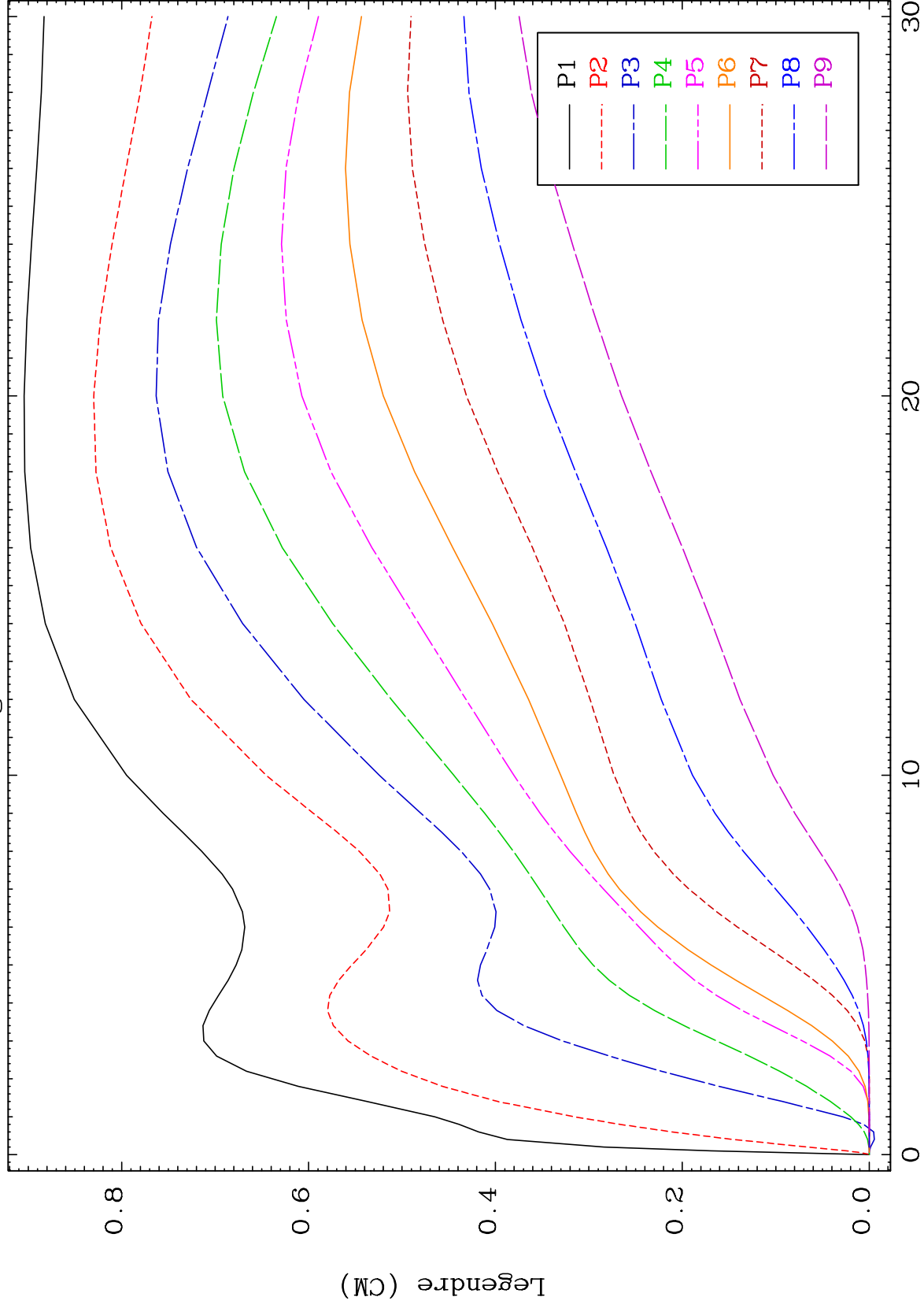




MAT 5634

Elastic Legendre Coefficients

56-Ba-133



16

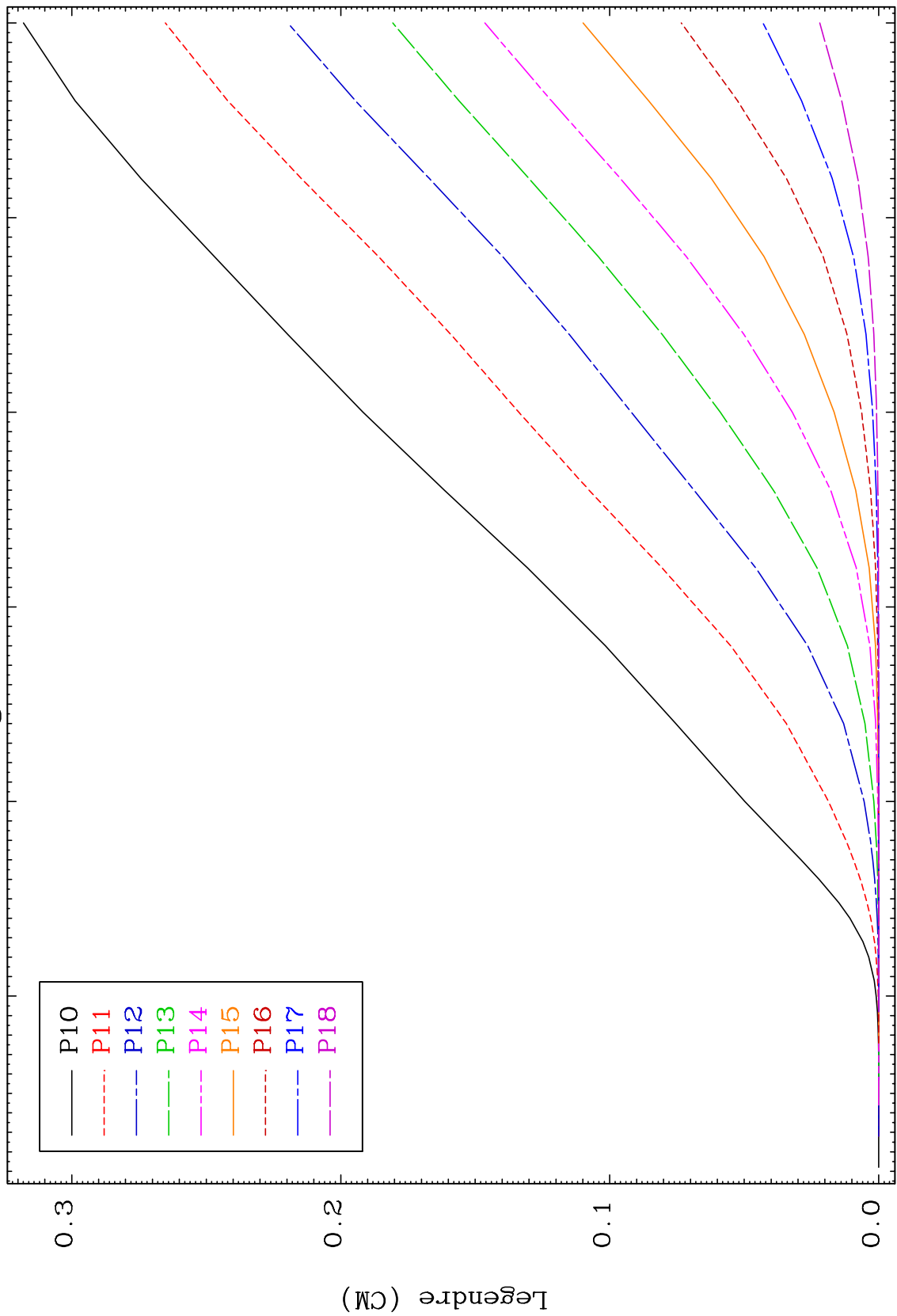
Incident Energy (MeV)

56-Ba-133

MAT 5634

Elastic Legendre Coefficients

56-Ba-133



17

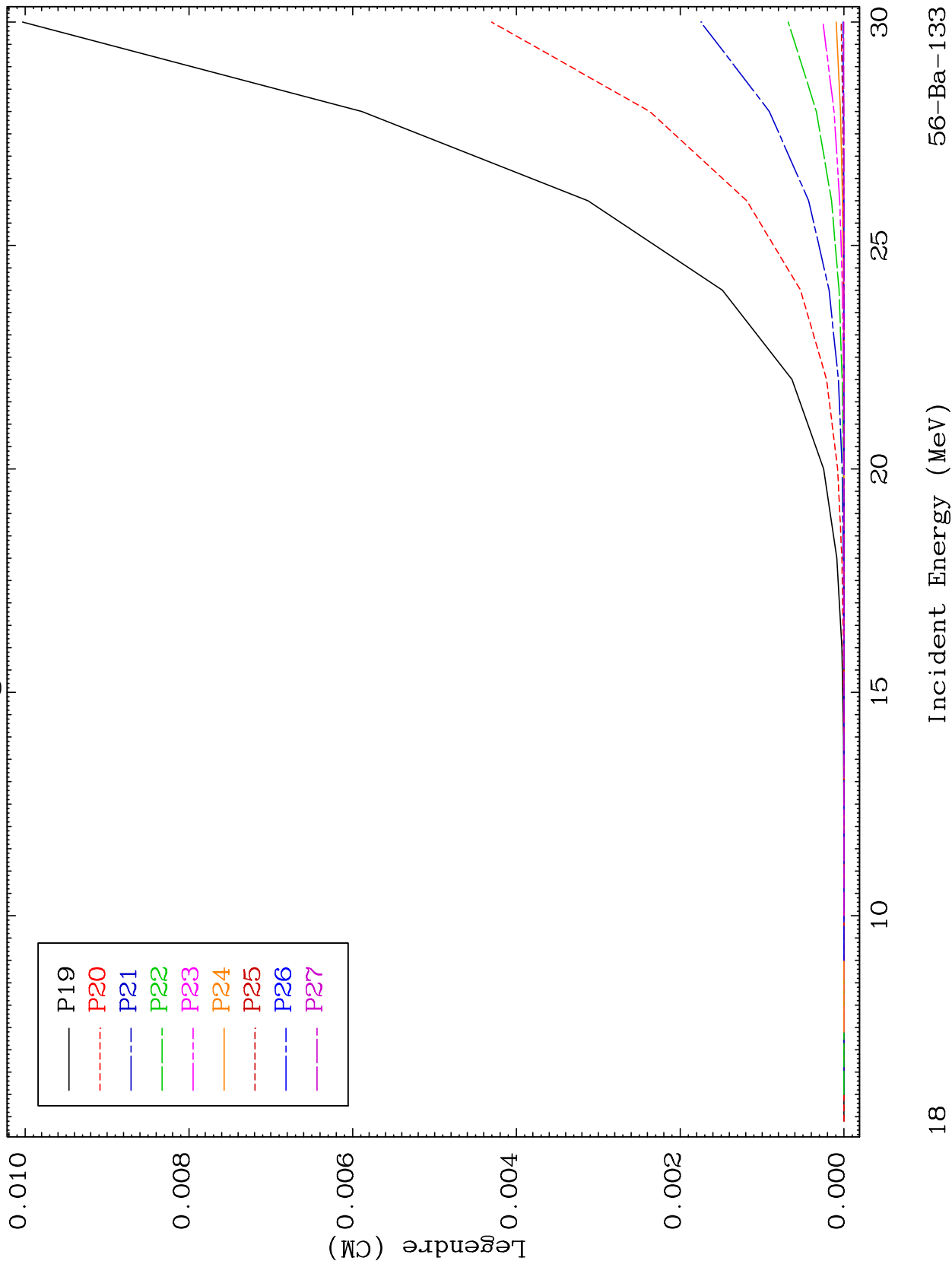
56-Ba-133

Incident Energy (MeV)

MAT 5634

Elastic Legendre Coefficients

56-Ba-133



18

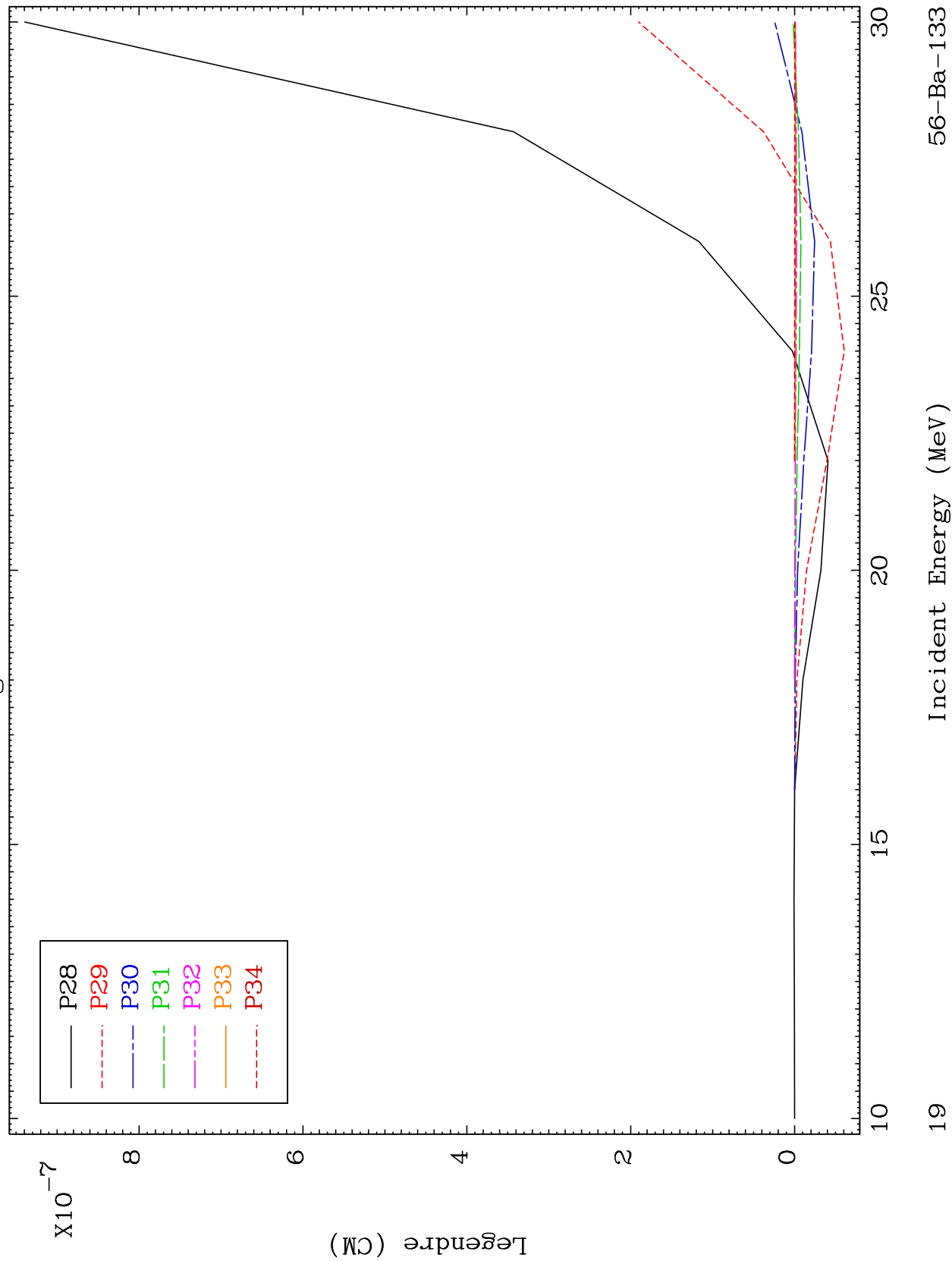
Incident Energy (MeV)

56-Ba-133

MAT 5634

Elastic Legendre Coefficients

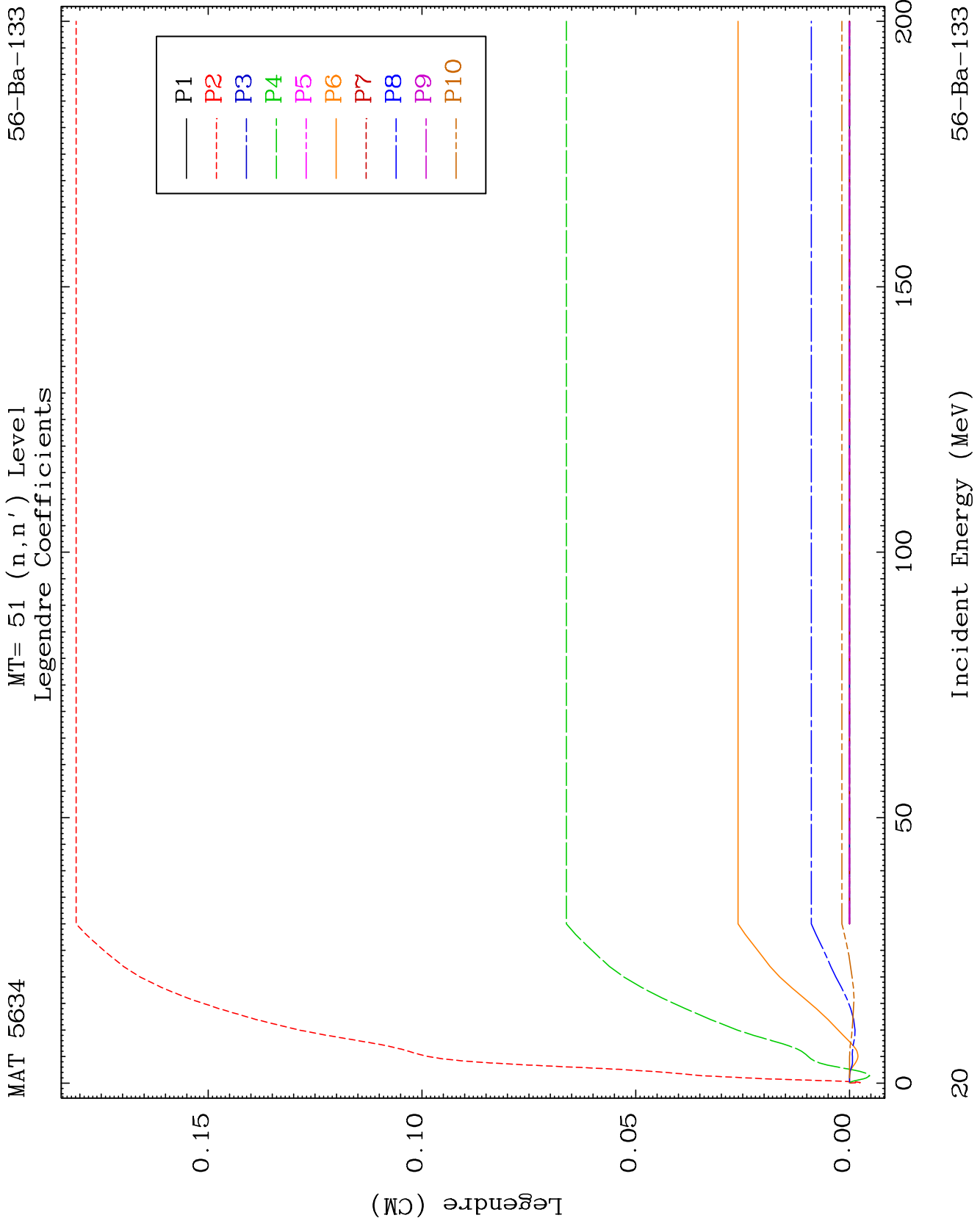
56-Ba-133



19

Incident Energy (MeV)

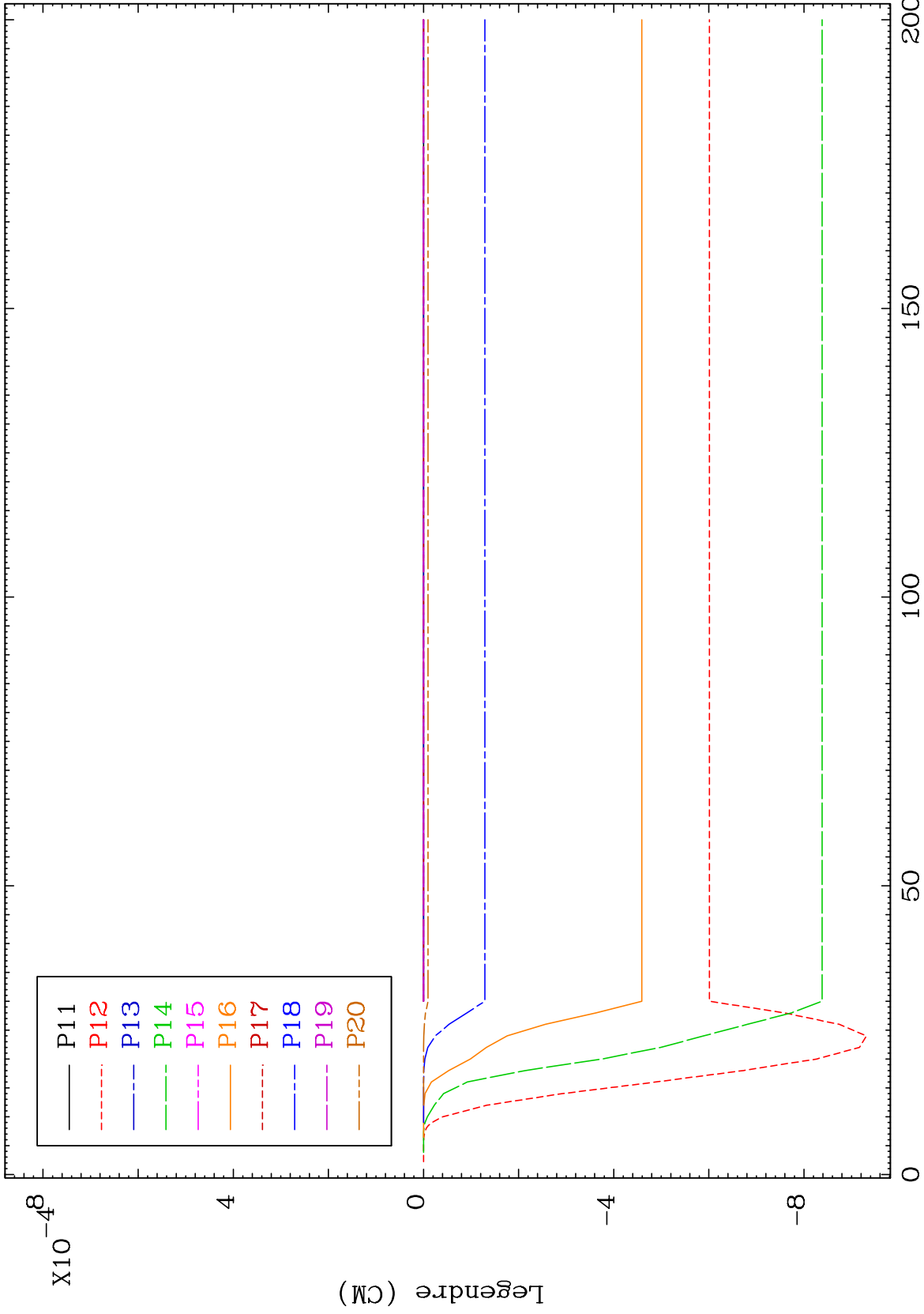
56-Ba-133



MAT 5634

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

56-Ba-133



21

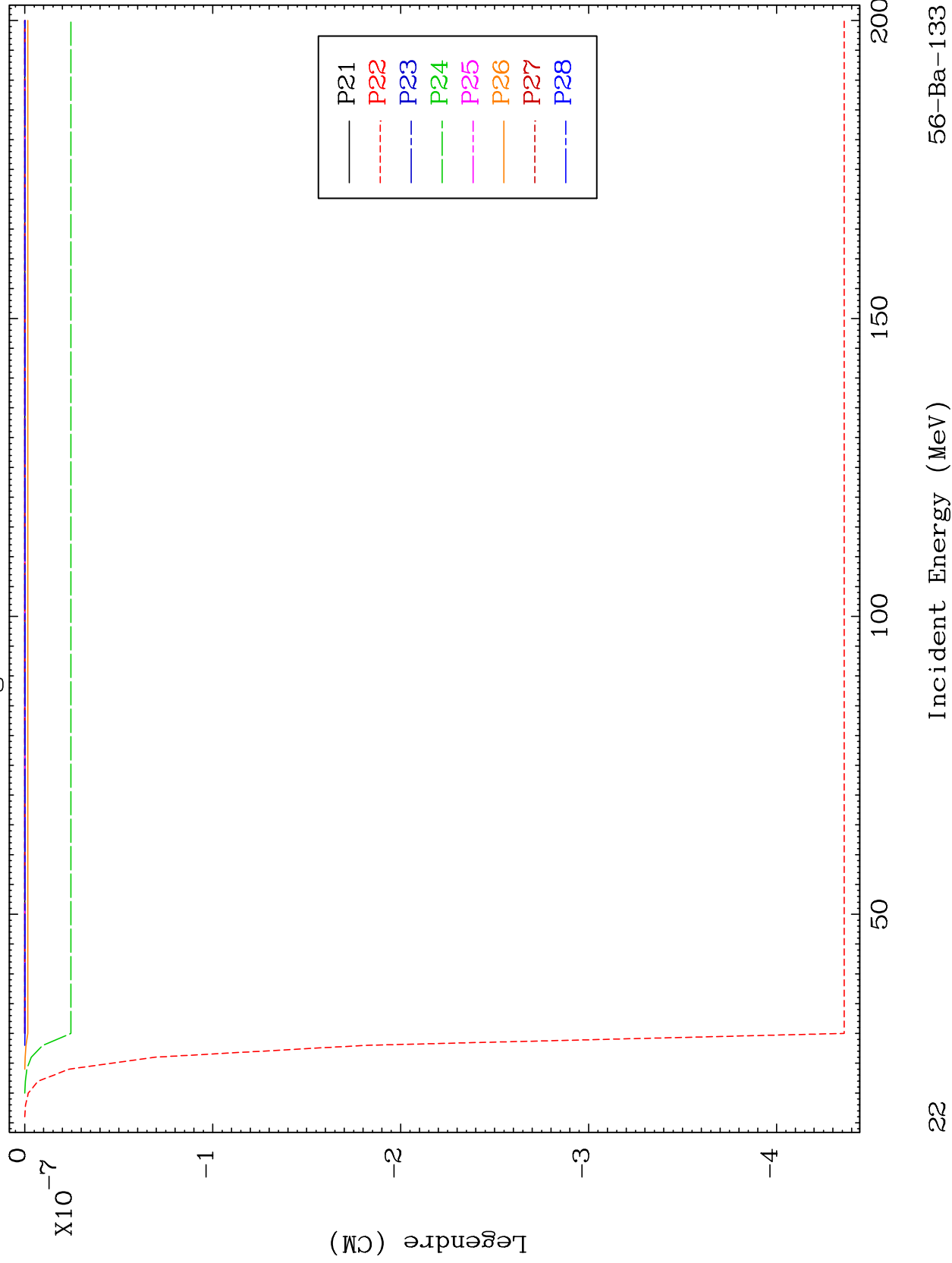
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



22

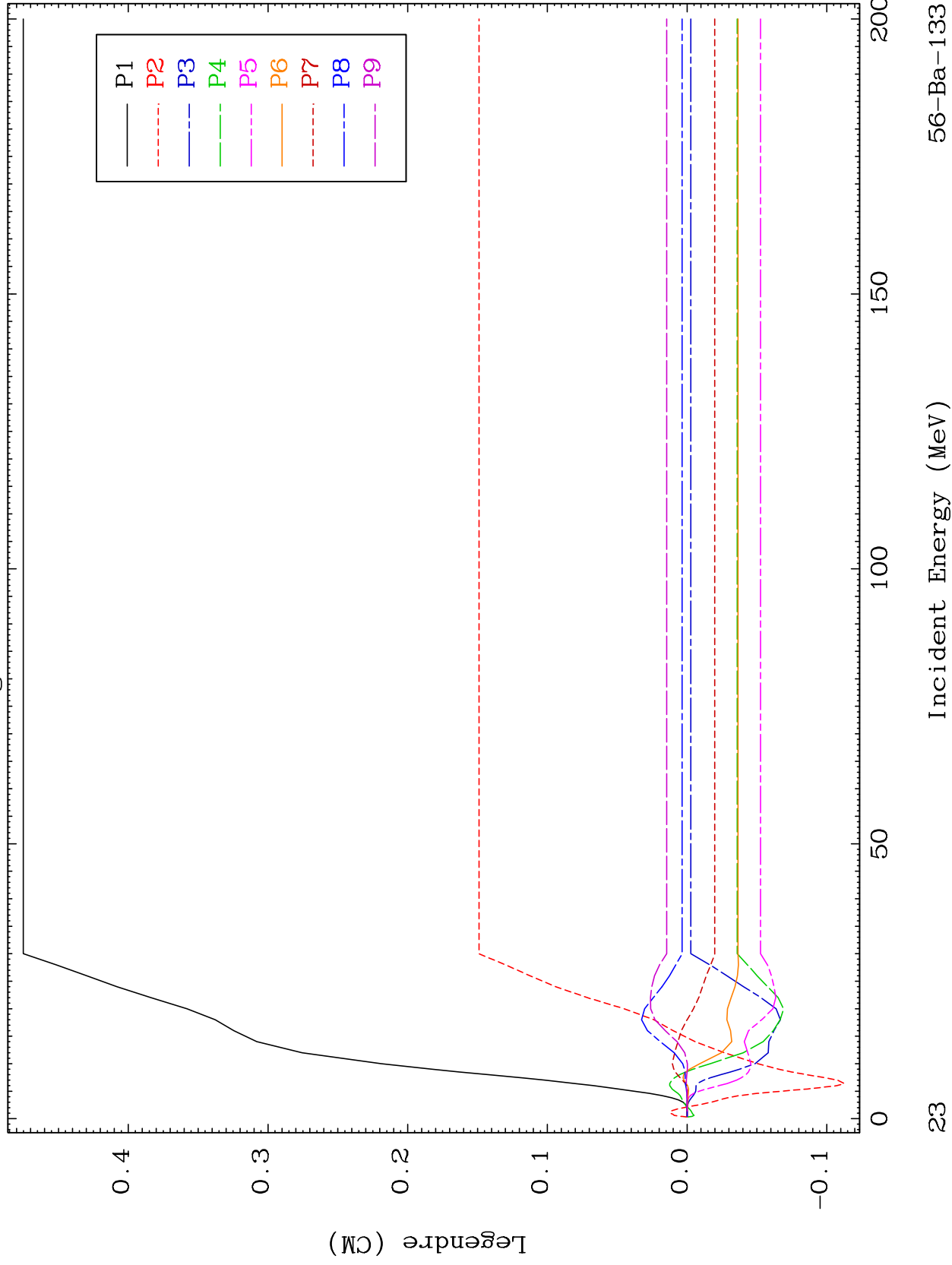
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



56-Ba-133

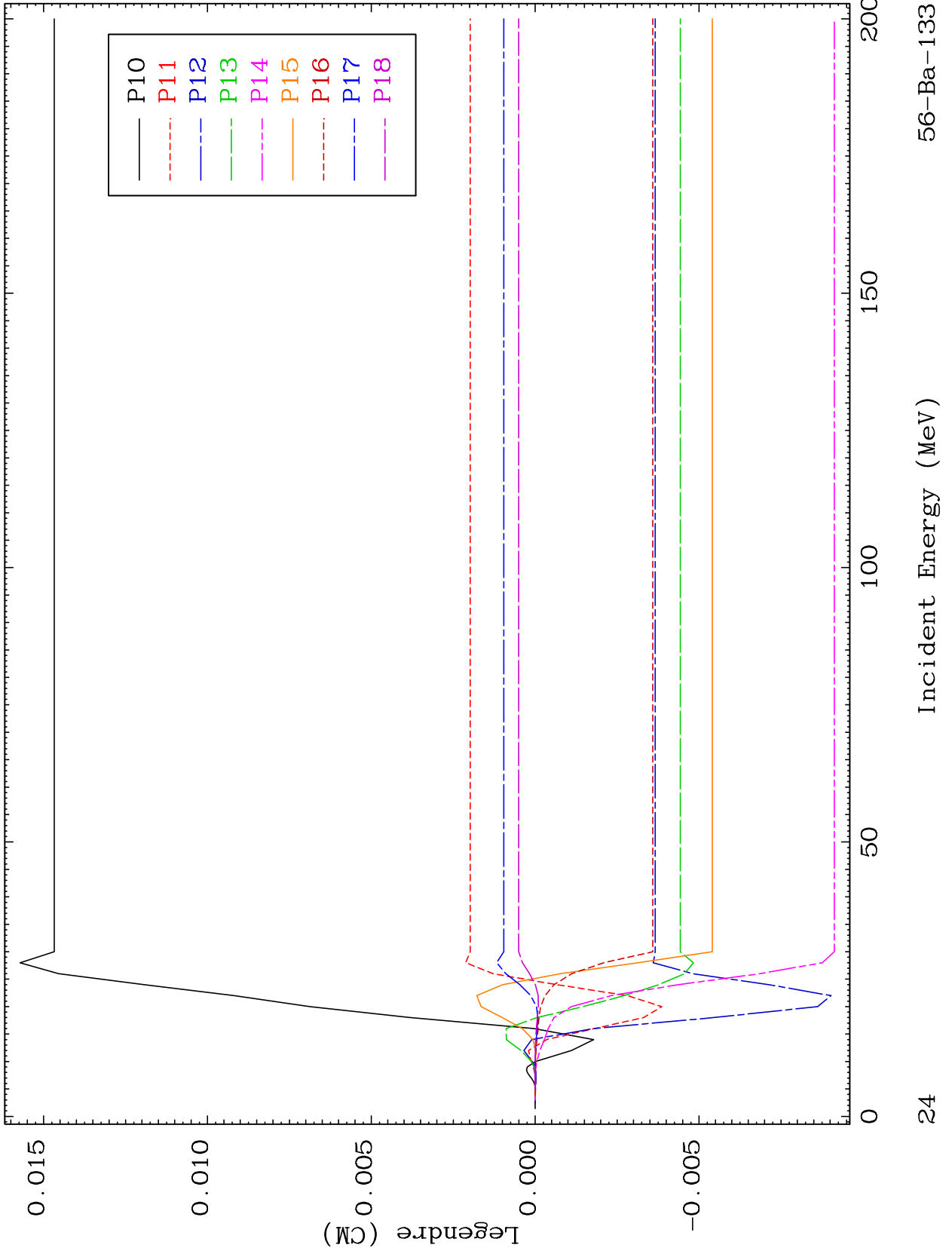
Incident Energy (MeV)

23

MAT 5634

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

56-Ba-133



24

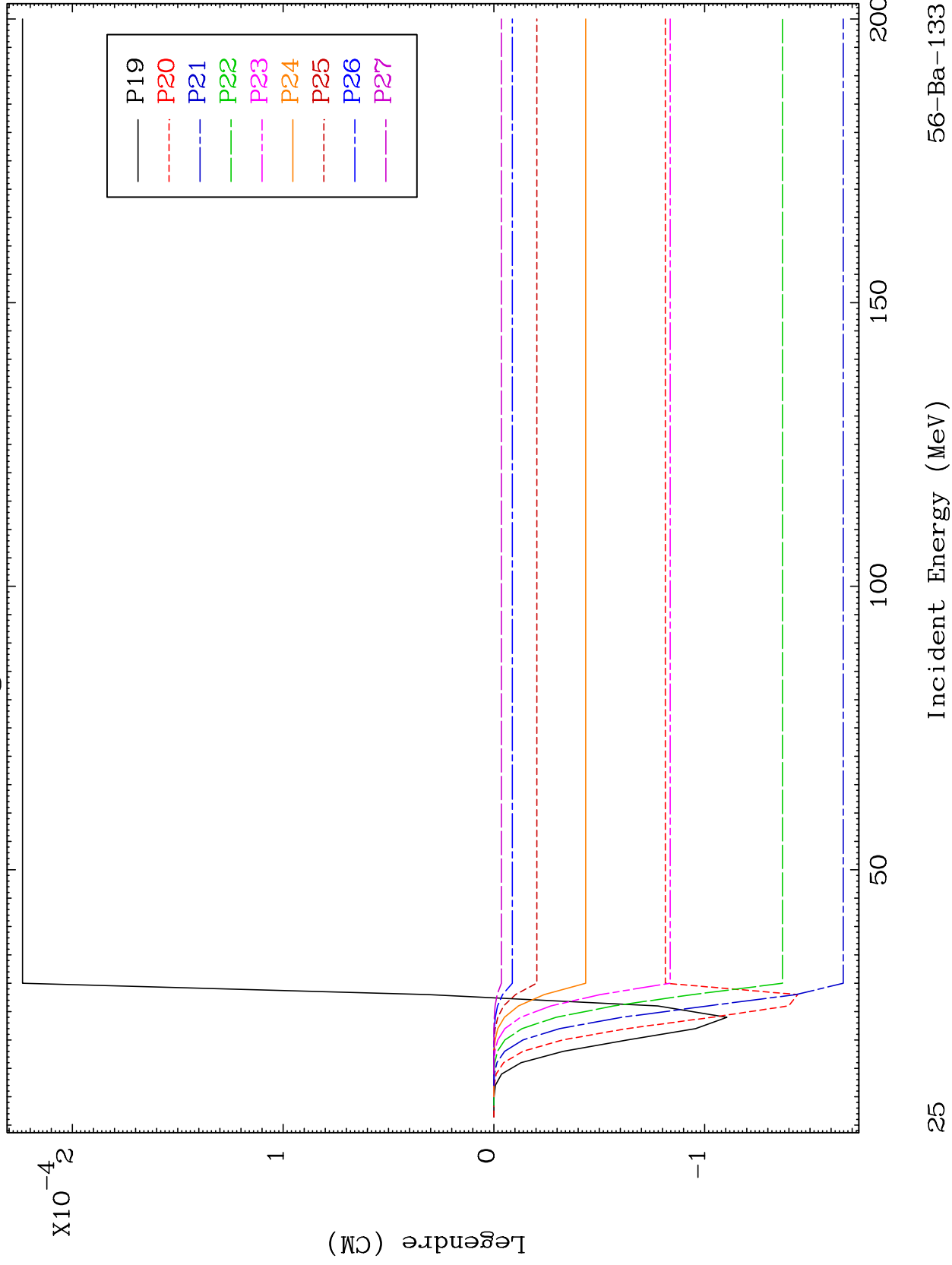
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

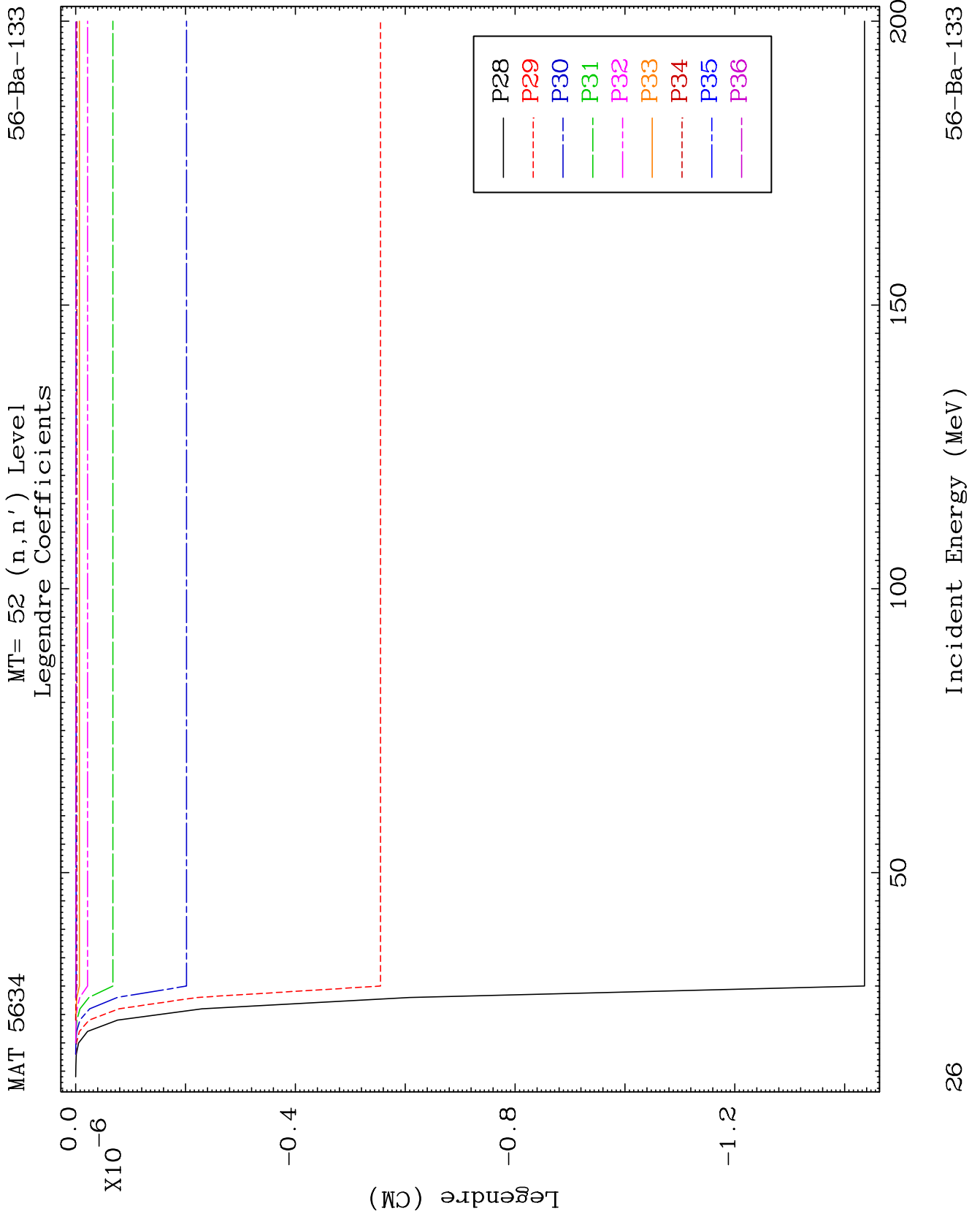
56-Ba-133

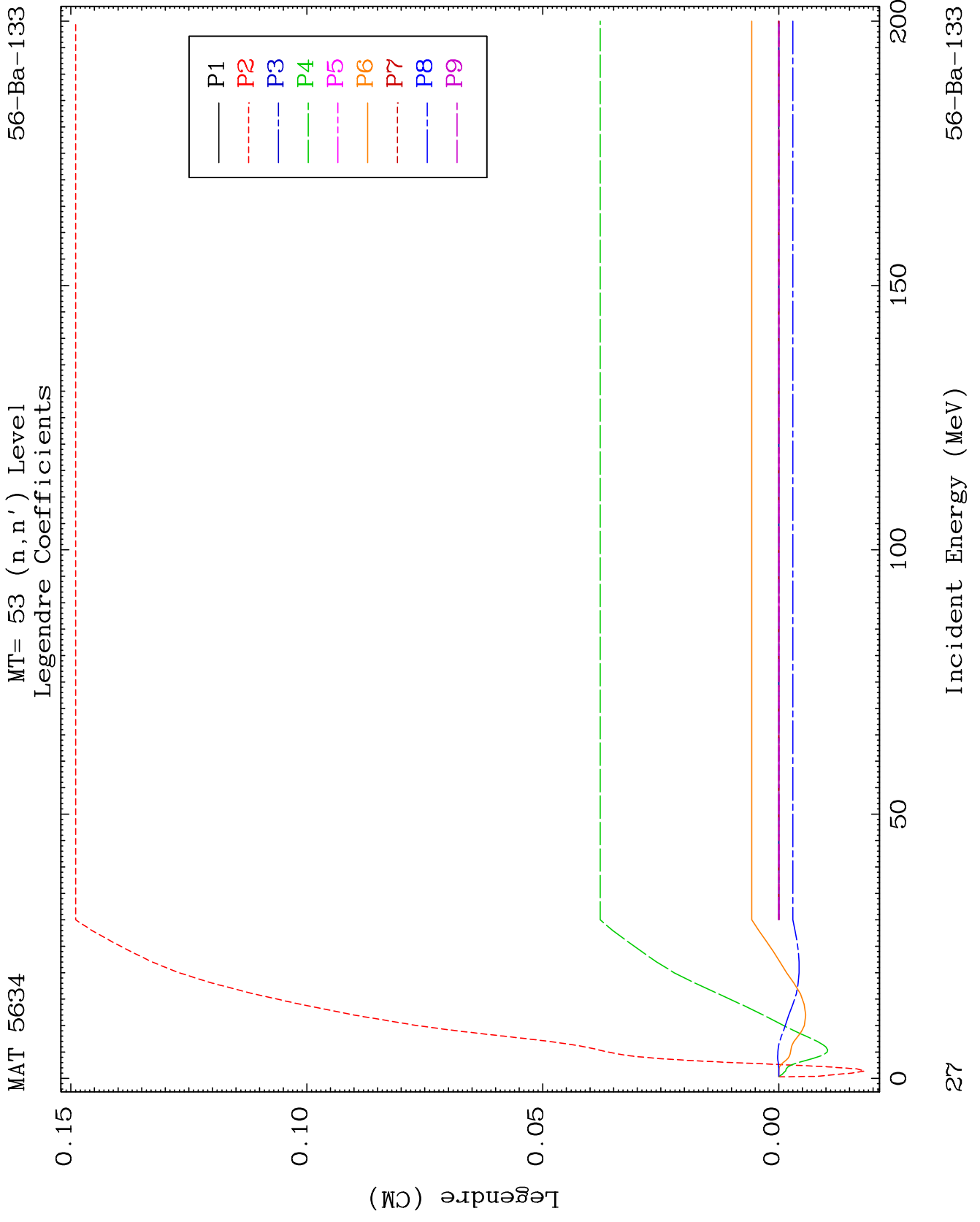


25

Incident Energy (MeV)

56-Ba-133

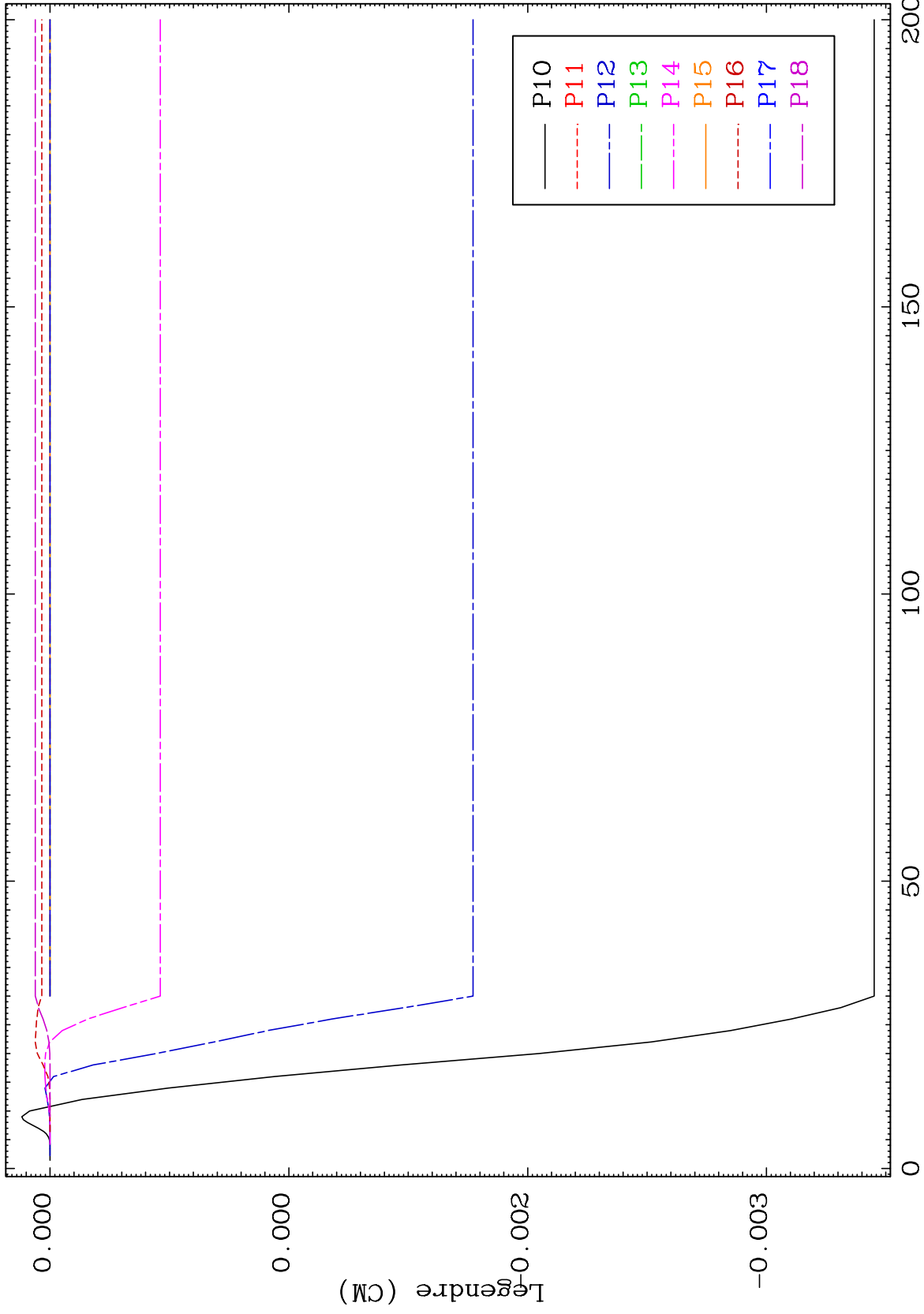




MAT 5634

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

56-Ba-133



28

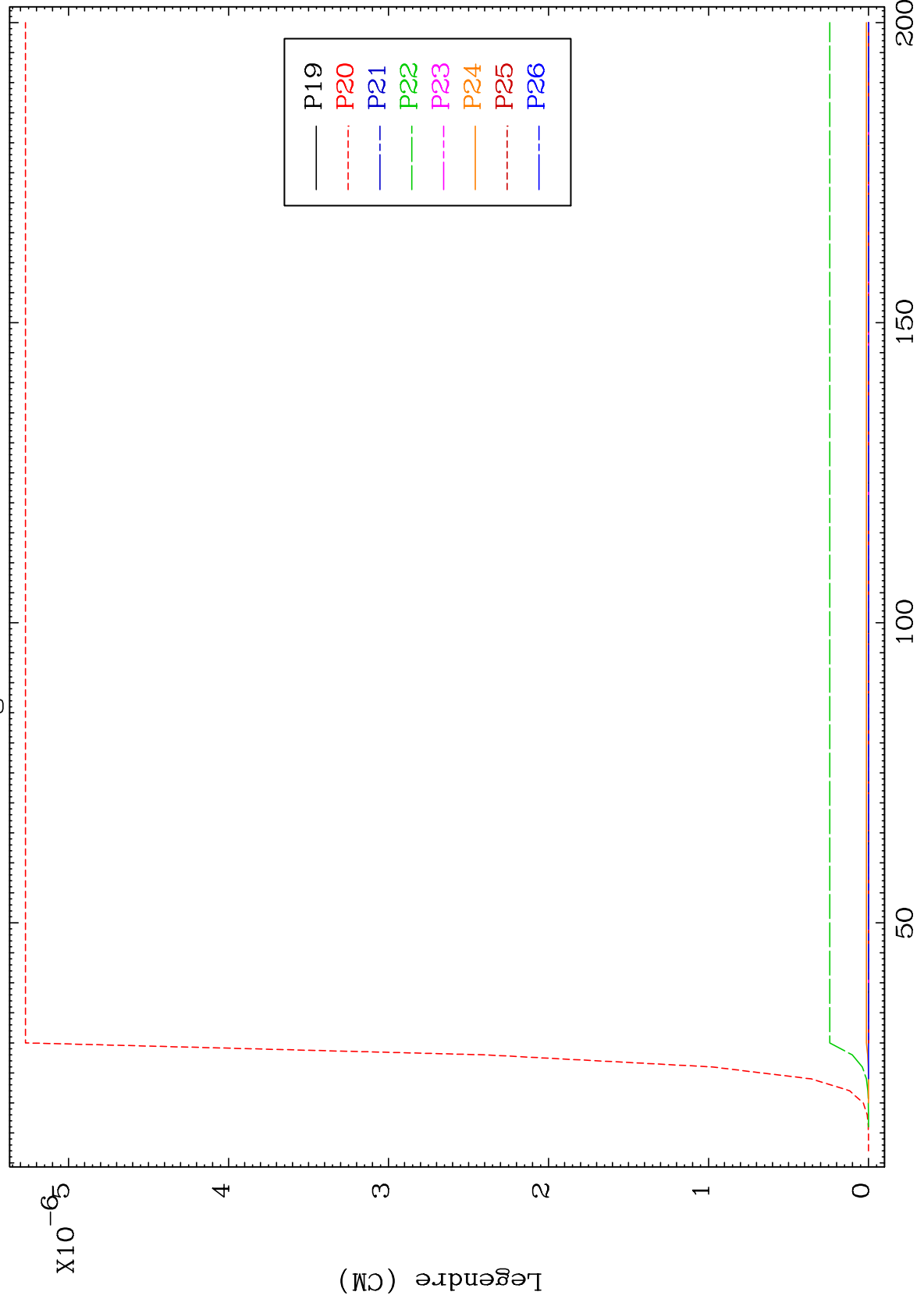
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



56-Ba-133

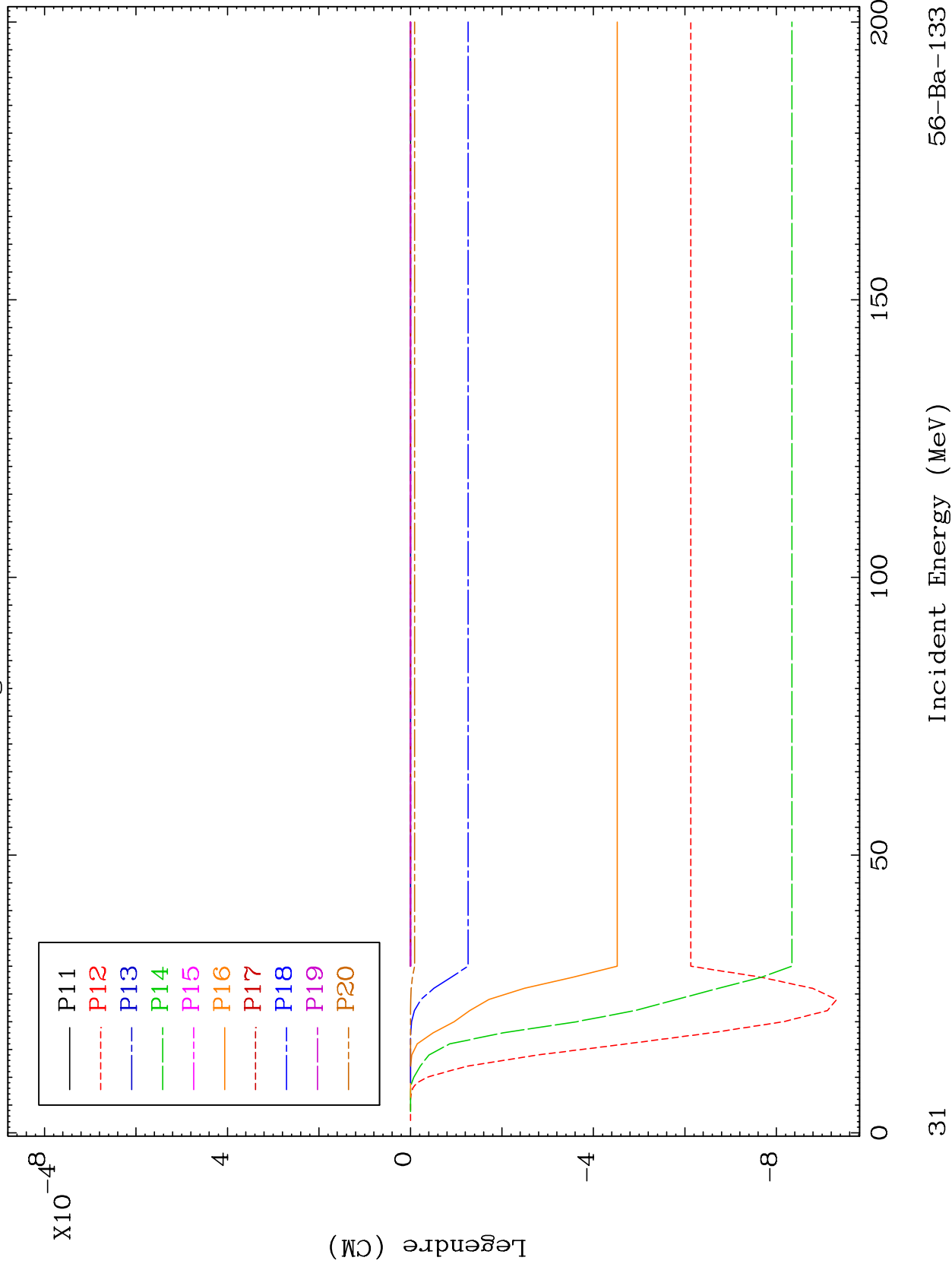
Incident Energy (MeV)

29

MAT 5634

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

56-Ba-133



31

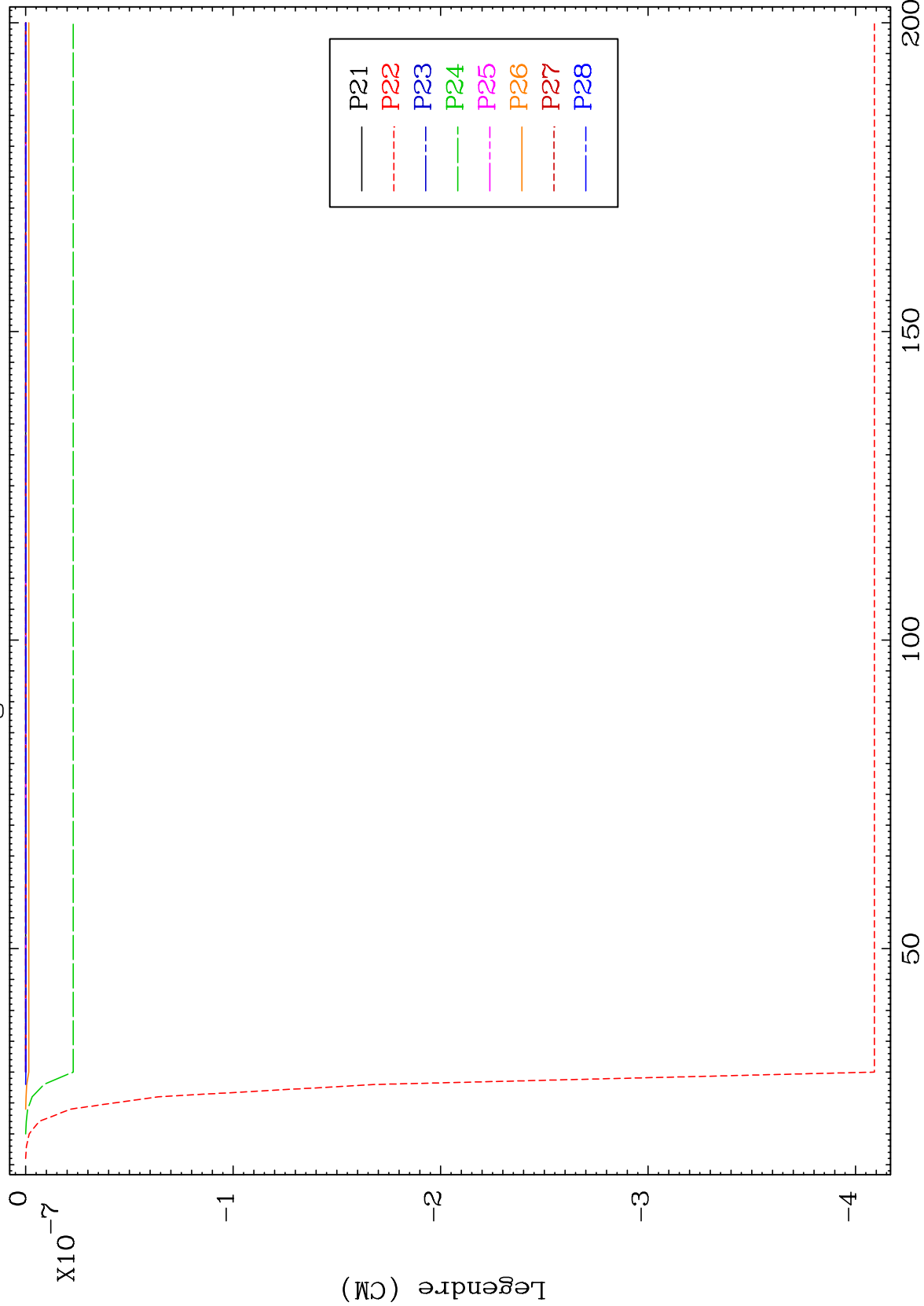
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



32

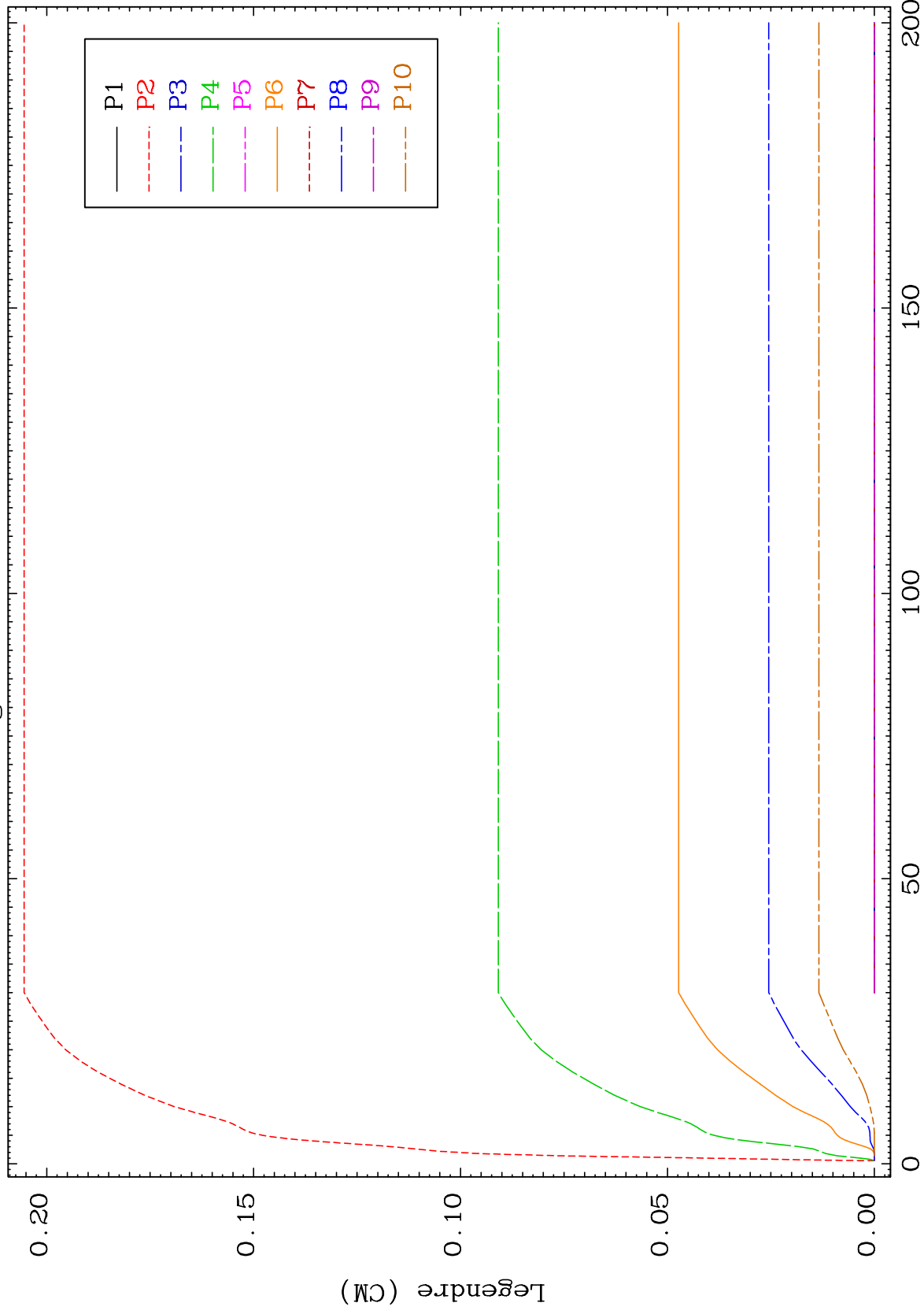
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



33

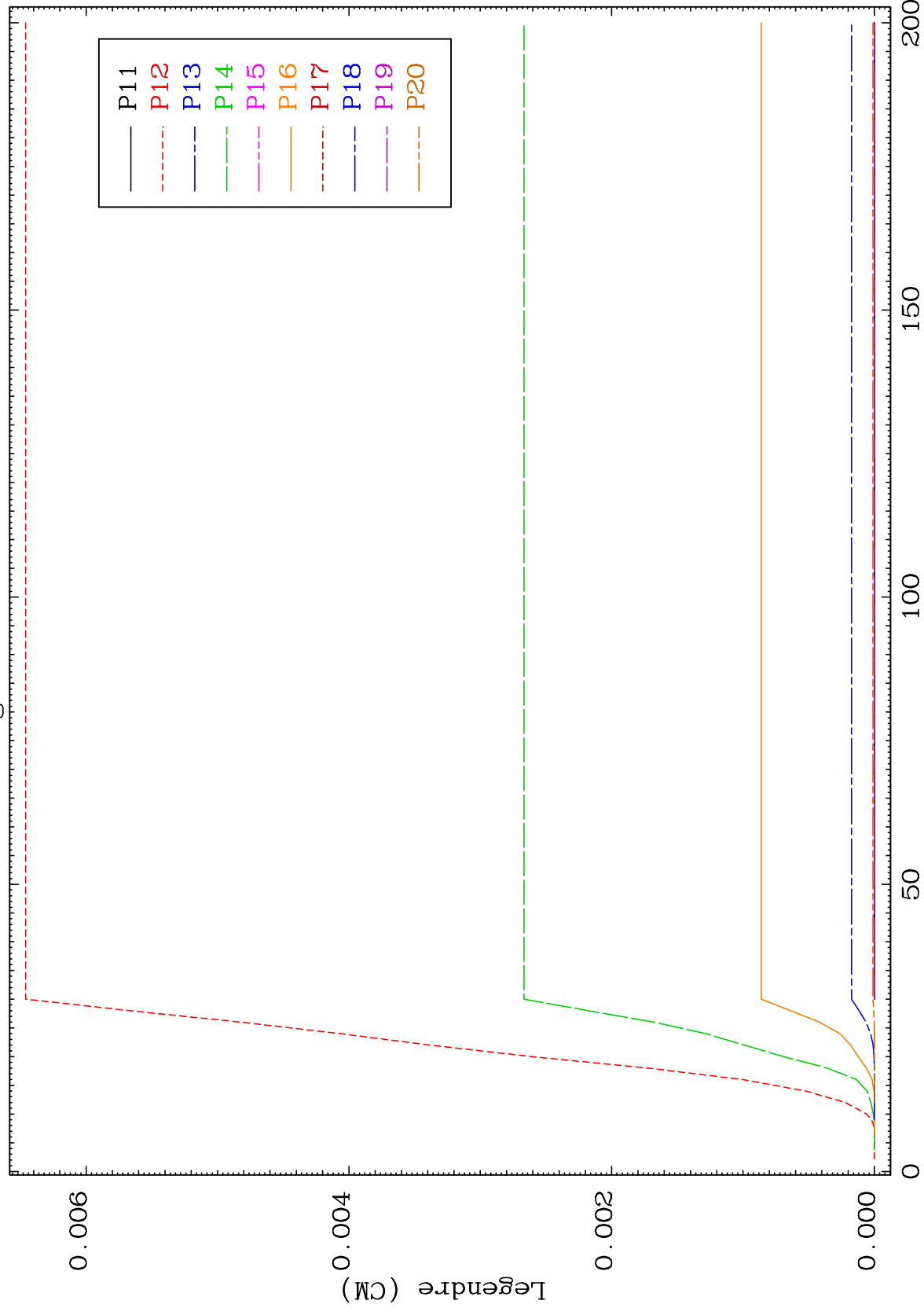
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

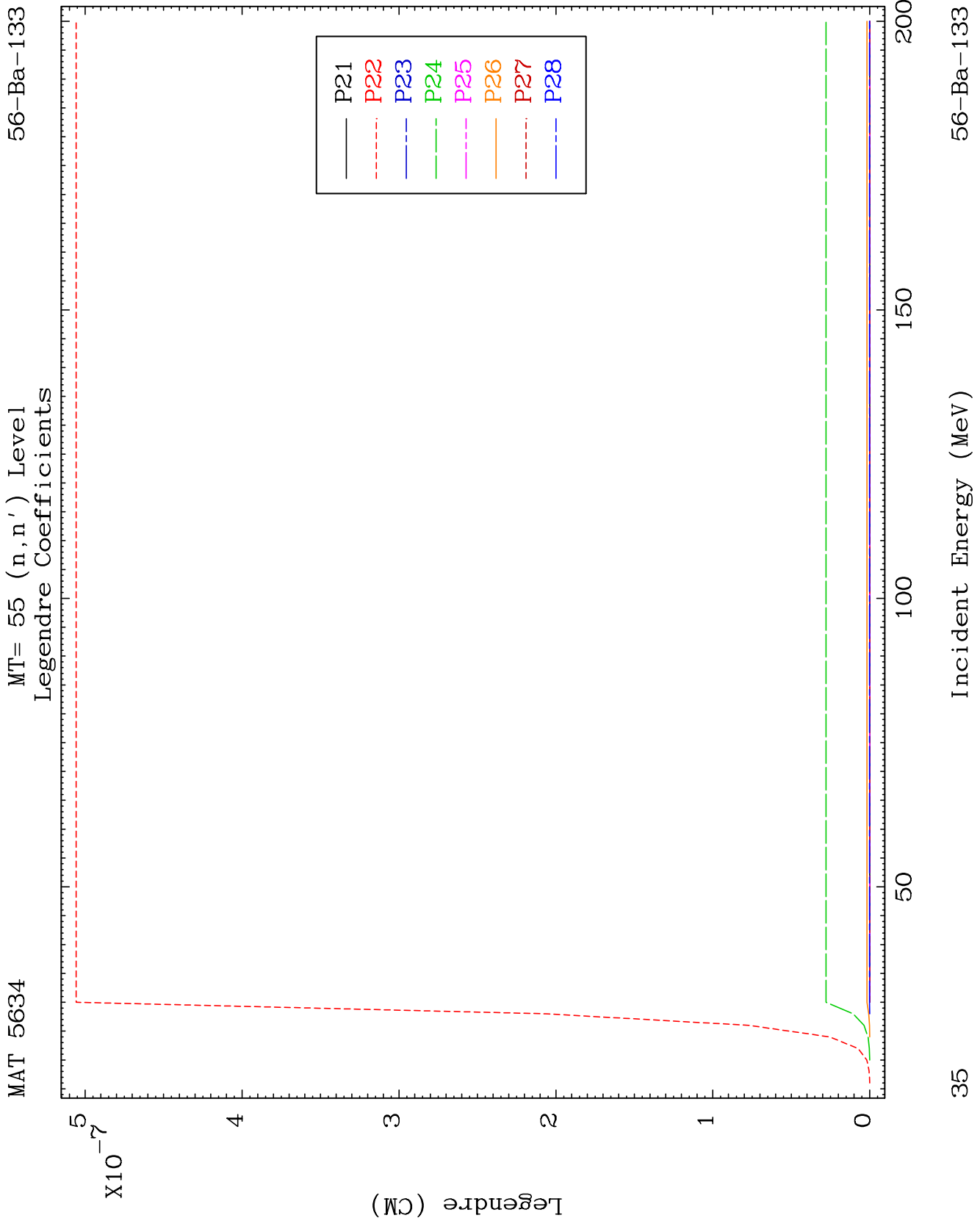
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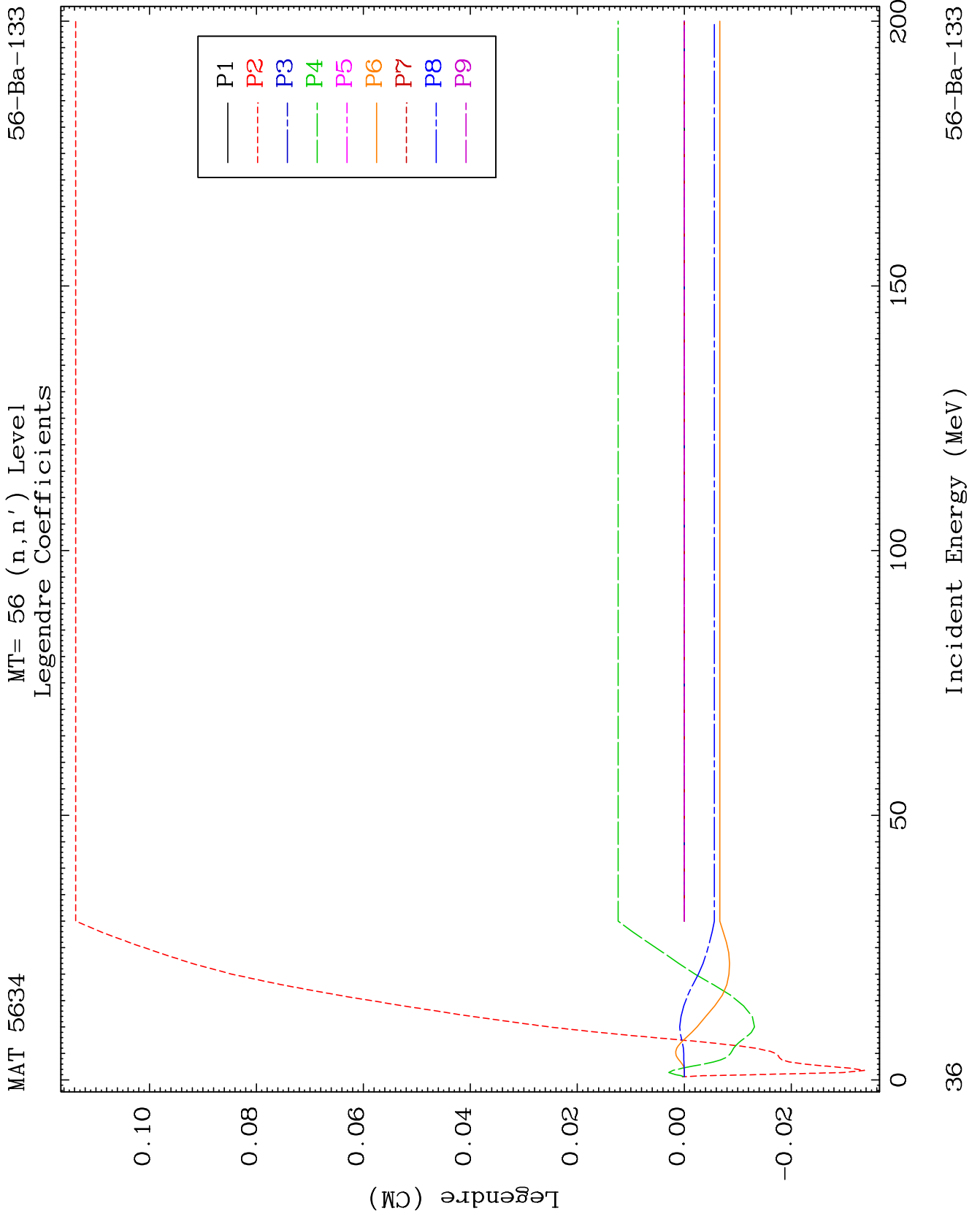


34

Incident Energy (MeV)

56-Ba-133

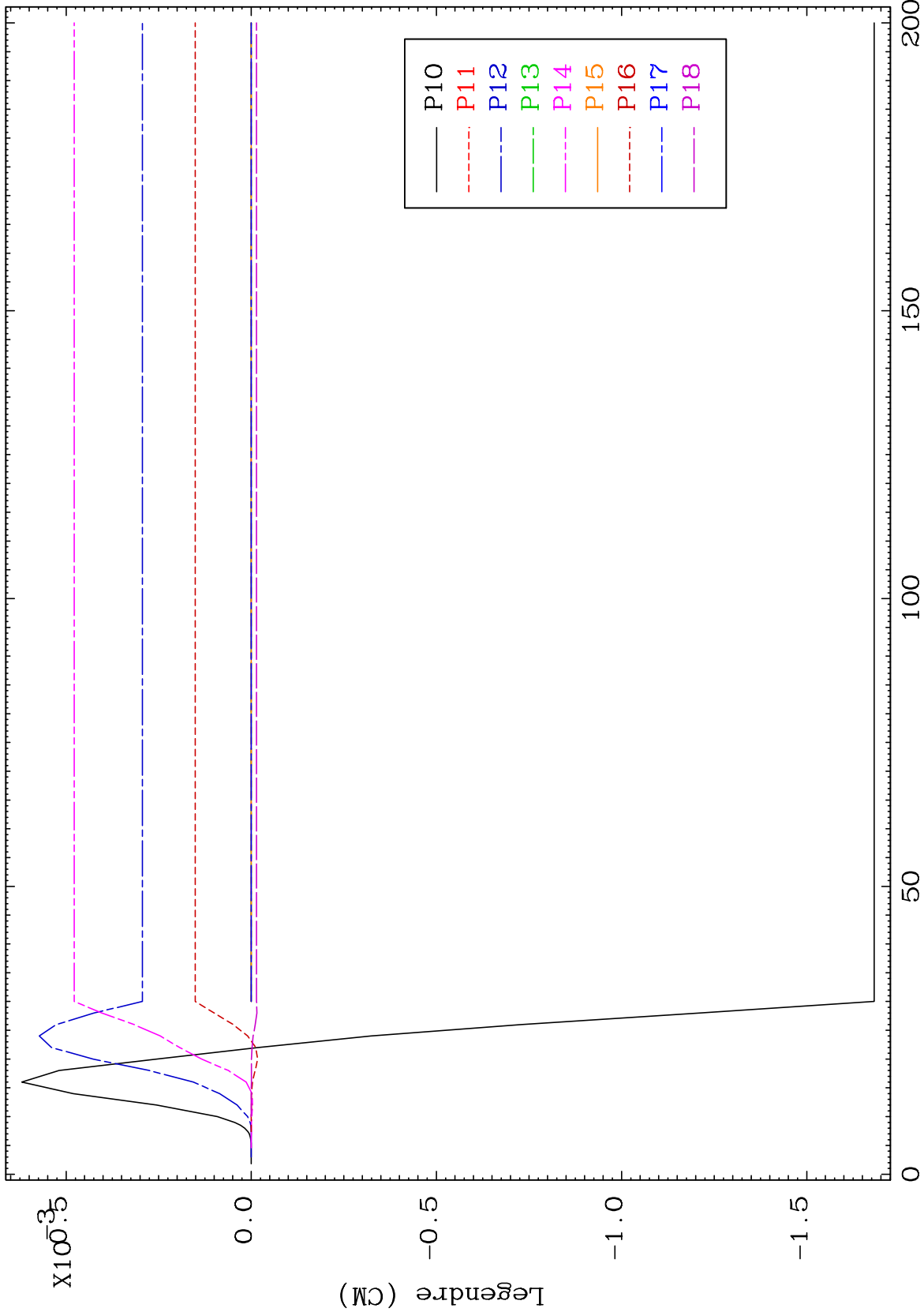




MAT 5634

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

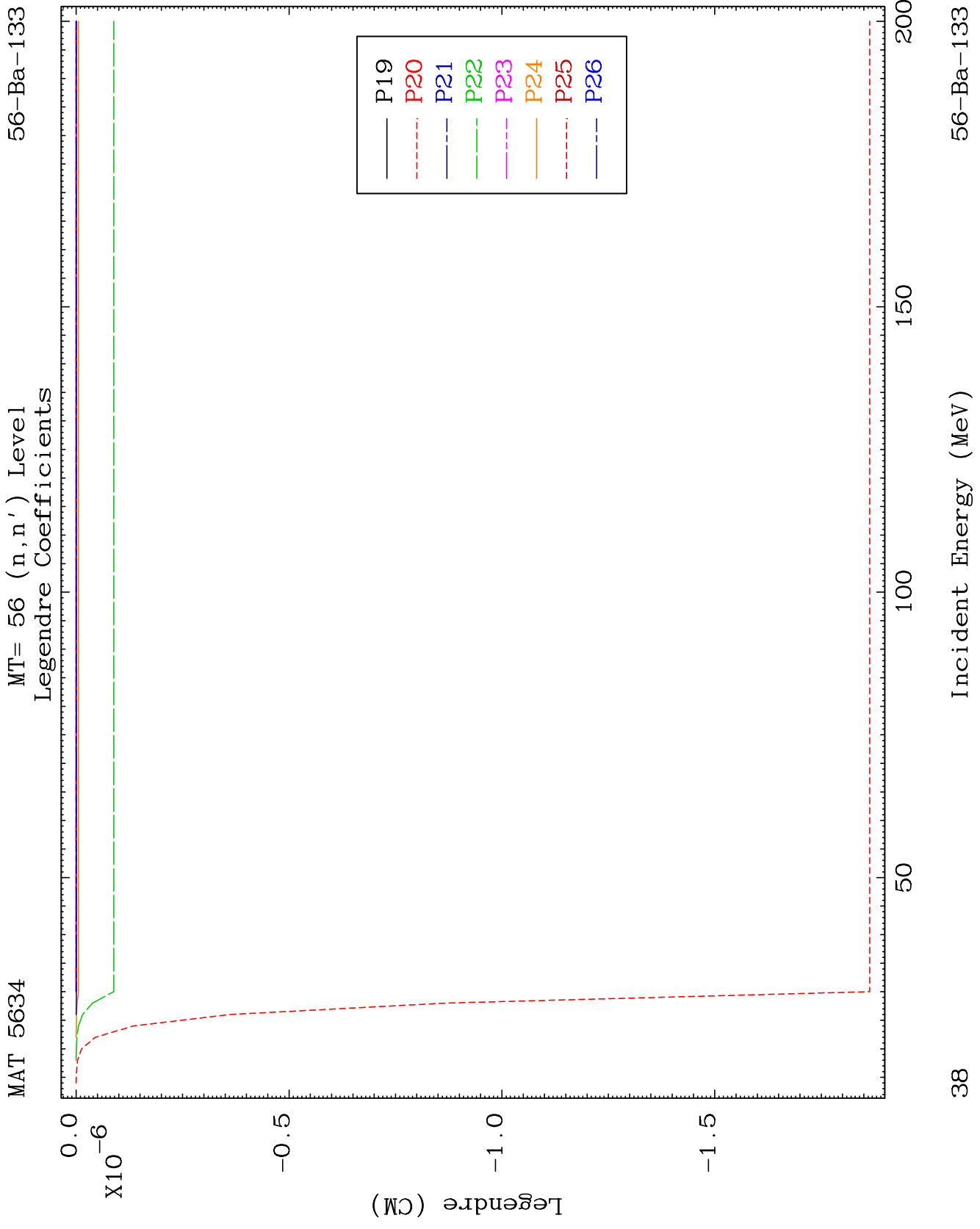
56-Ba-133



37

Incident Energy (MeV)

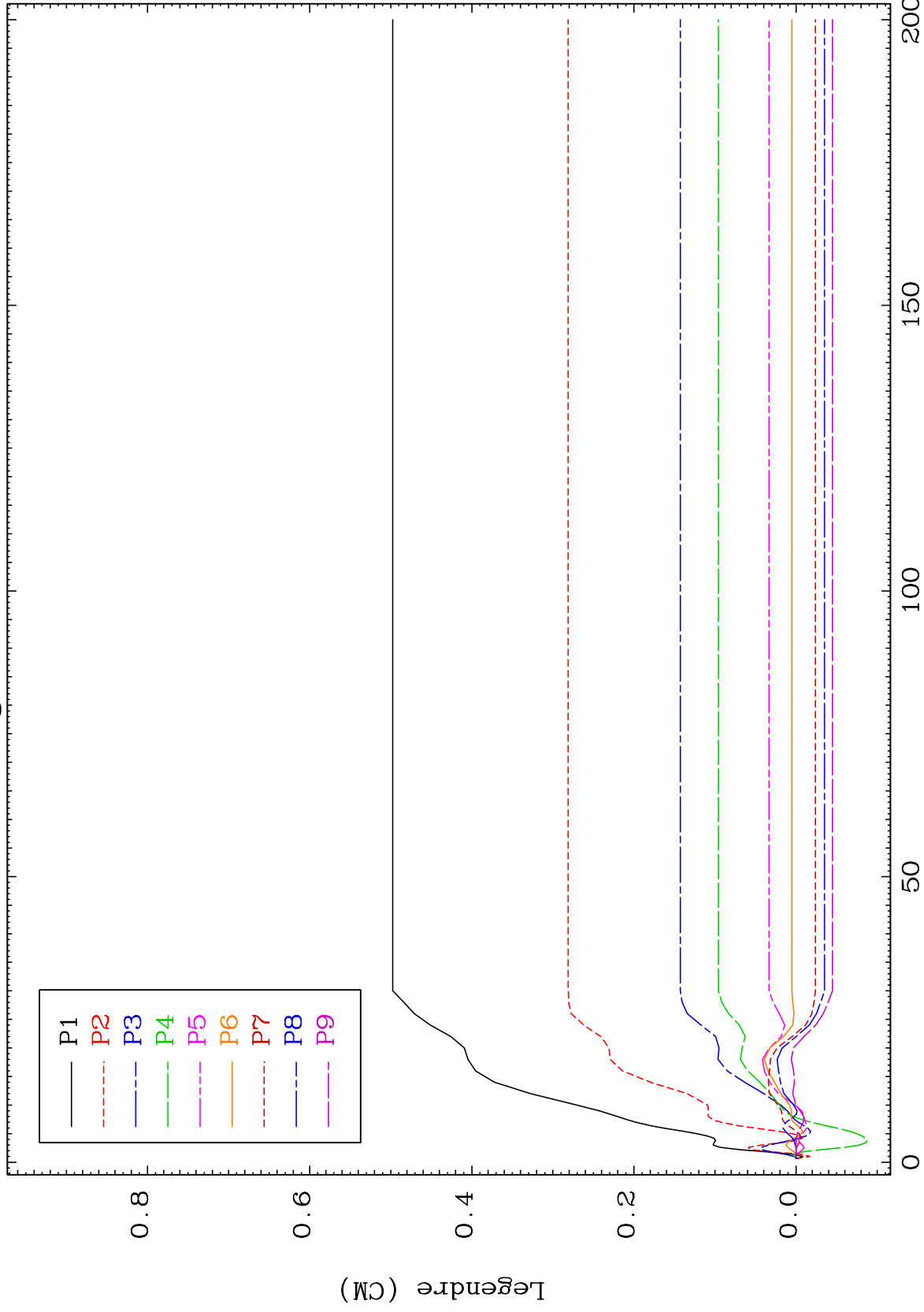
56-Ba-133



MAT 5634

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

56-Ba-133



56-Ba-133

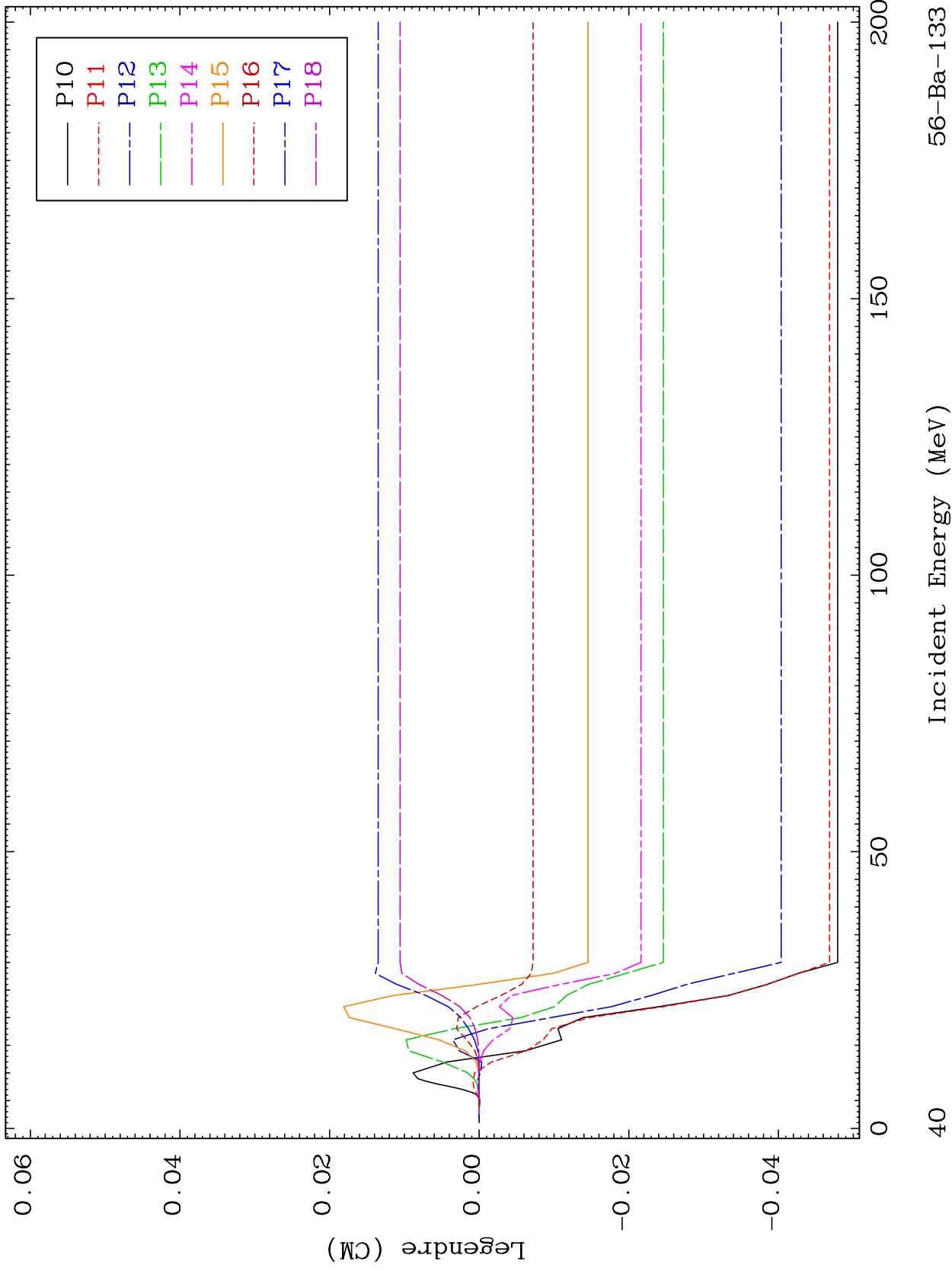
Incident Energy (MeV)

39

MAT 5634

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

56-Ba-133



56-Ba-133

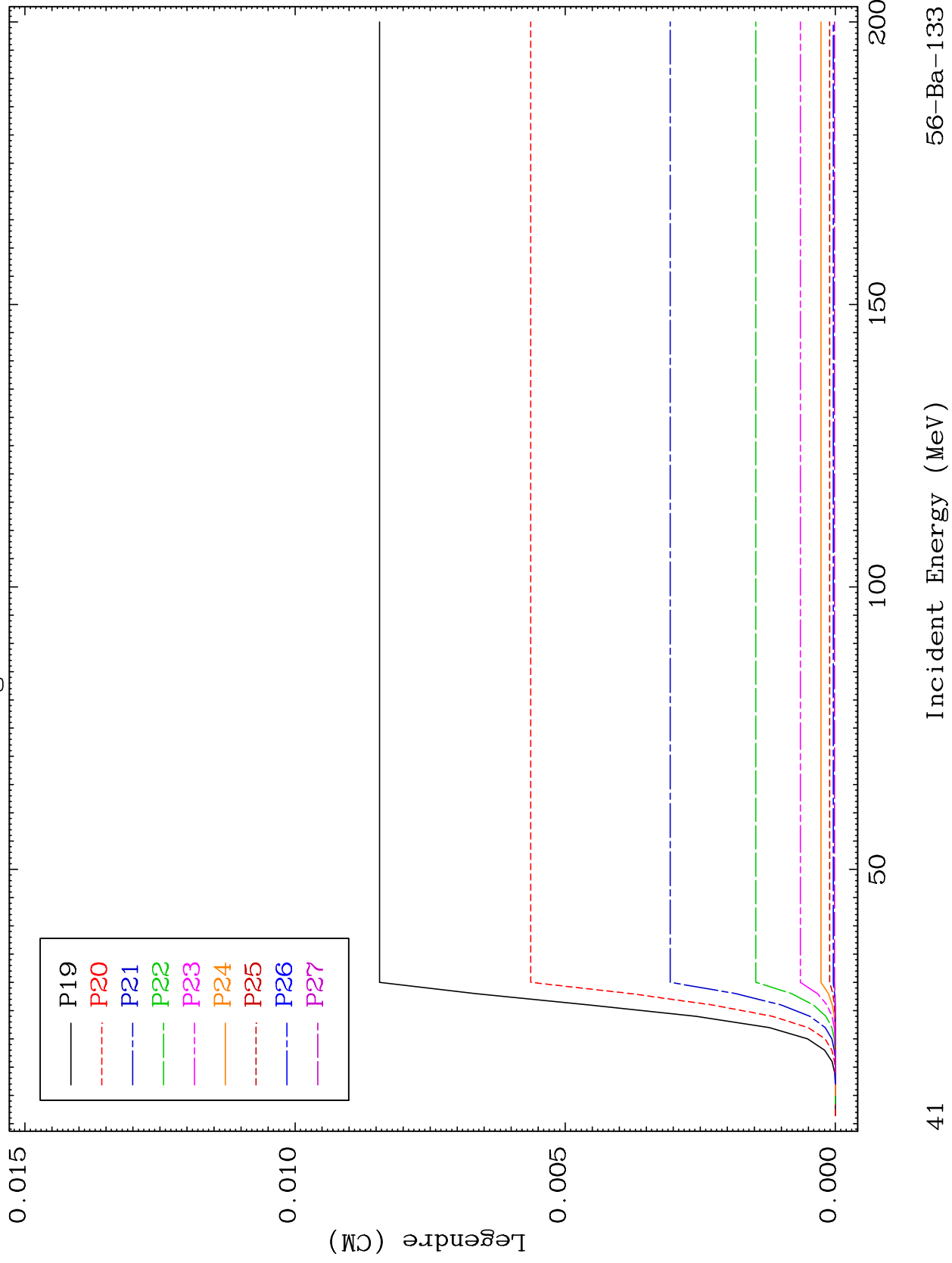
Incident Energy (MeV)

40

MAT 5634

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

56-Ba-133



41

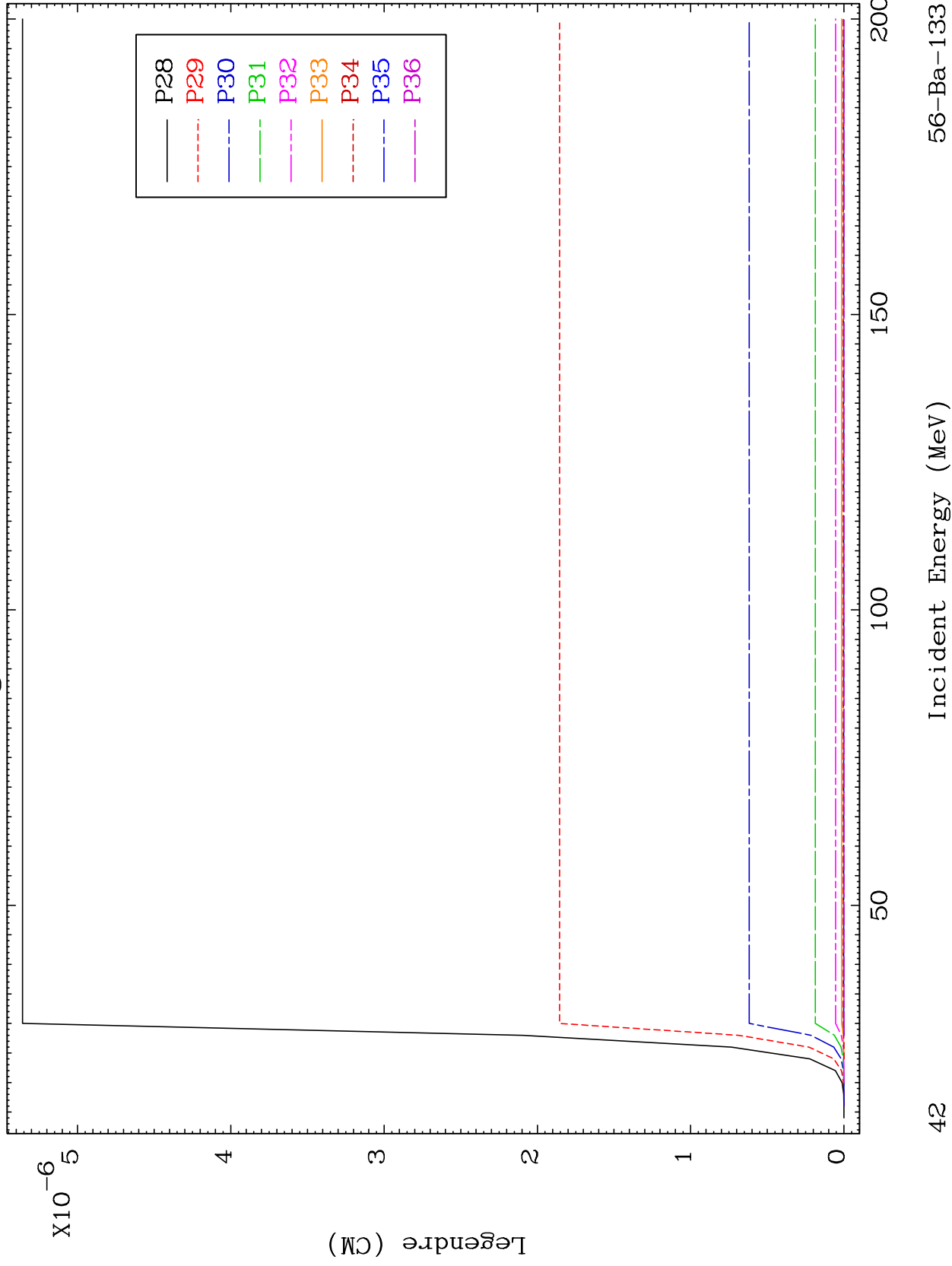
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



42

Incident Energy (MeV)

56-Ba-133

200

150

100

50

$\times 10^{-6}$

5

4

3

2

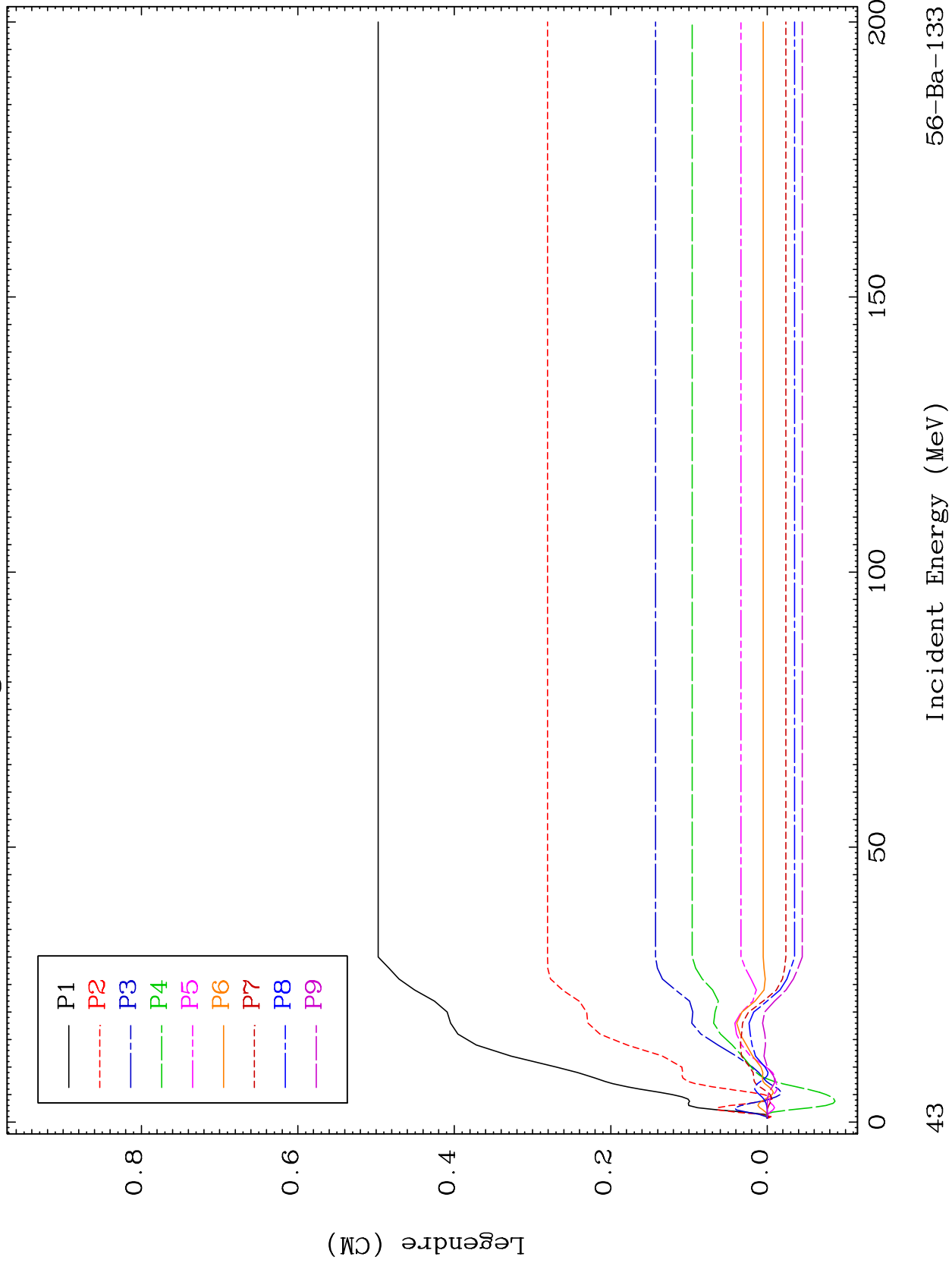
1

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MAT 5634

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

56-Ba-133



56-Ba-133

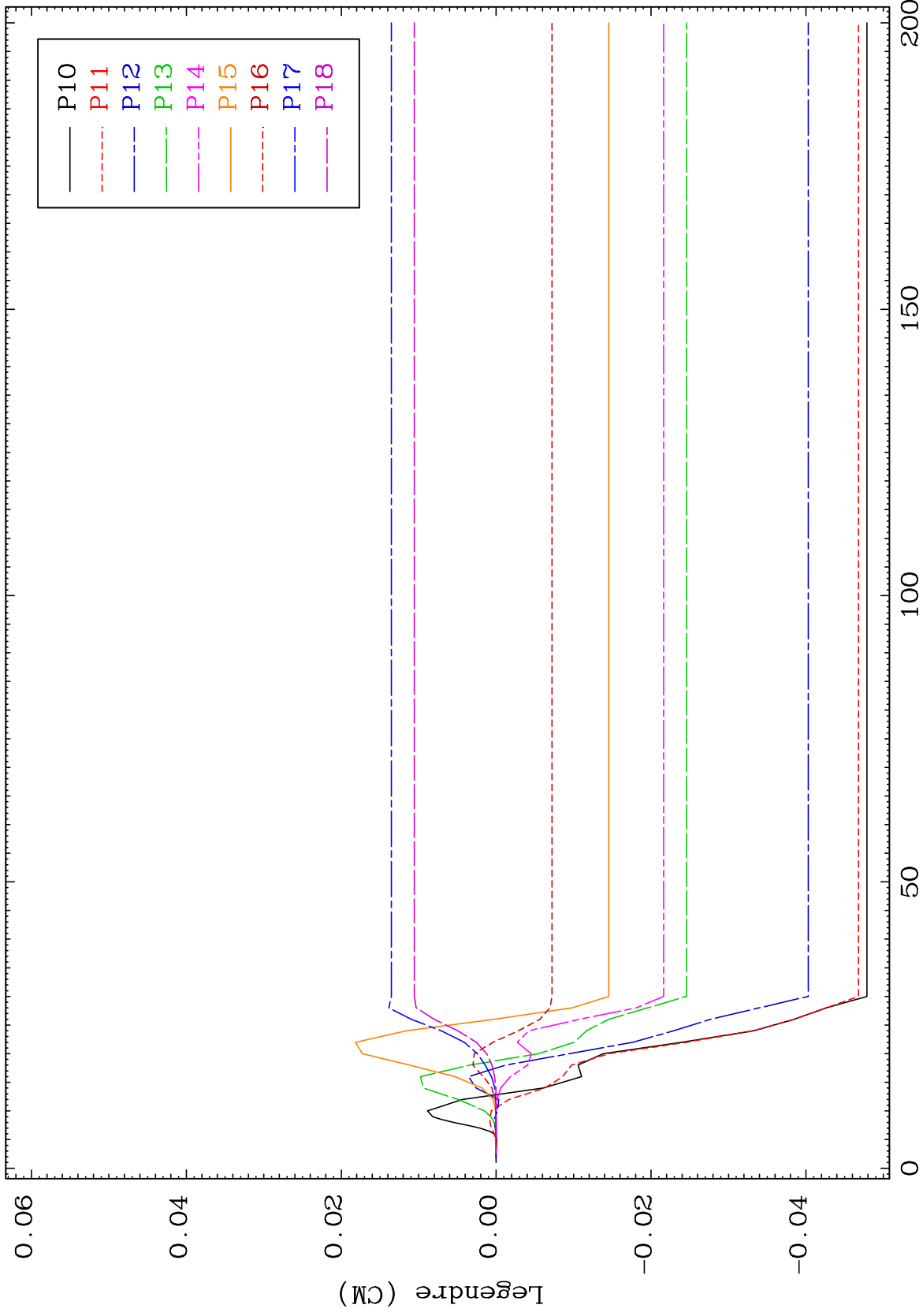
Incident Energy (MeV)

43

MAT 5634

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

56-Ba-133



44

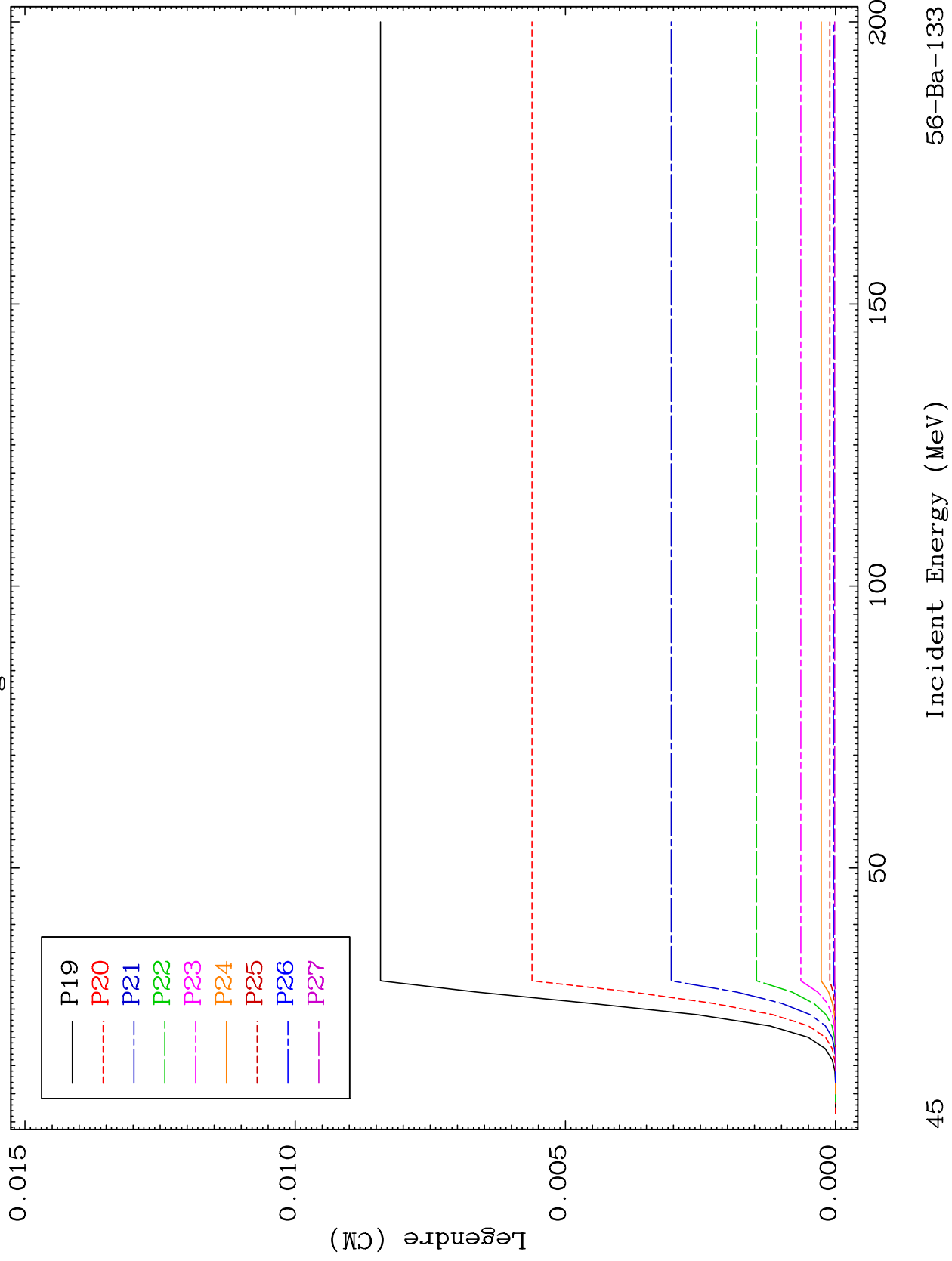
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



45

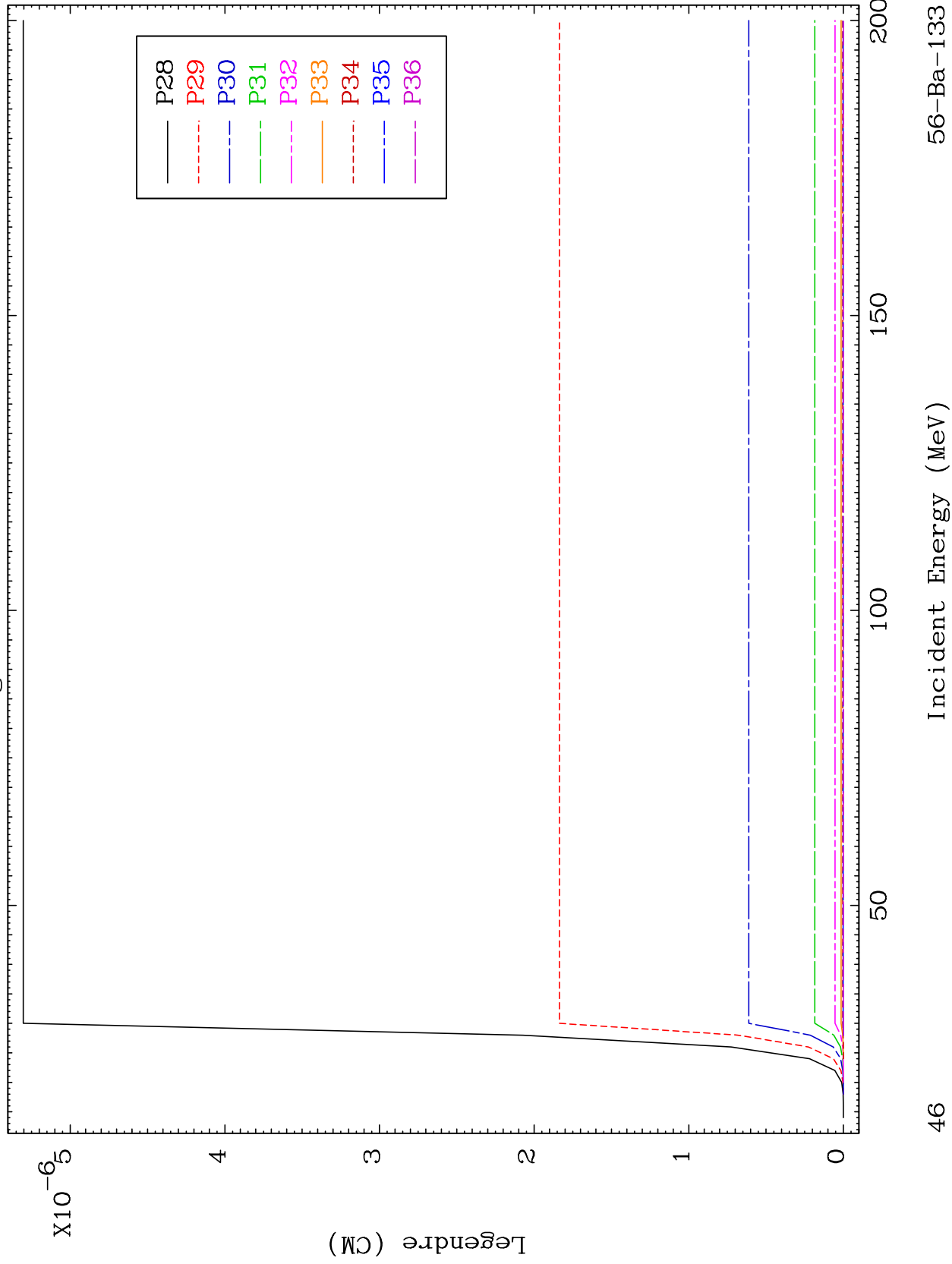
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



46

Incident Energy (MeV)

56-Ba-133

200

150

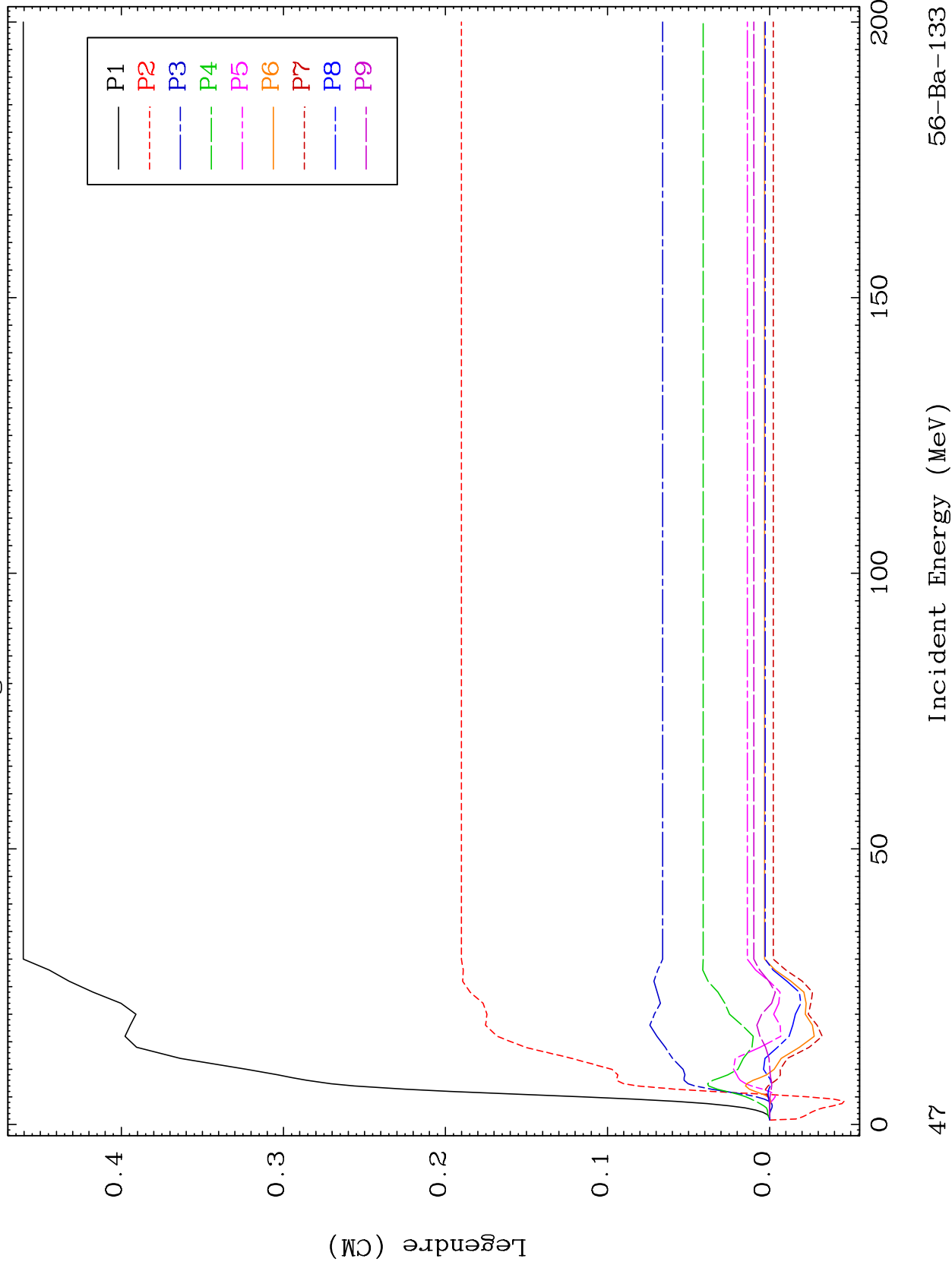
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50

MAT 5634

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

56-Ba-133

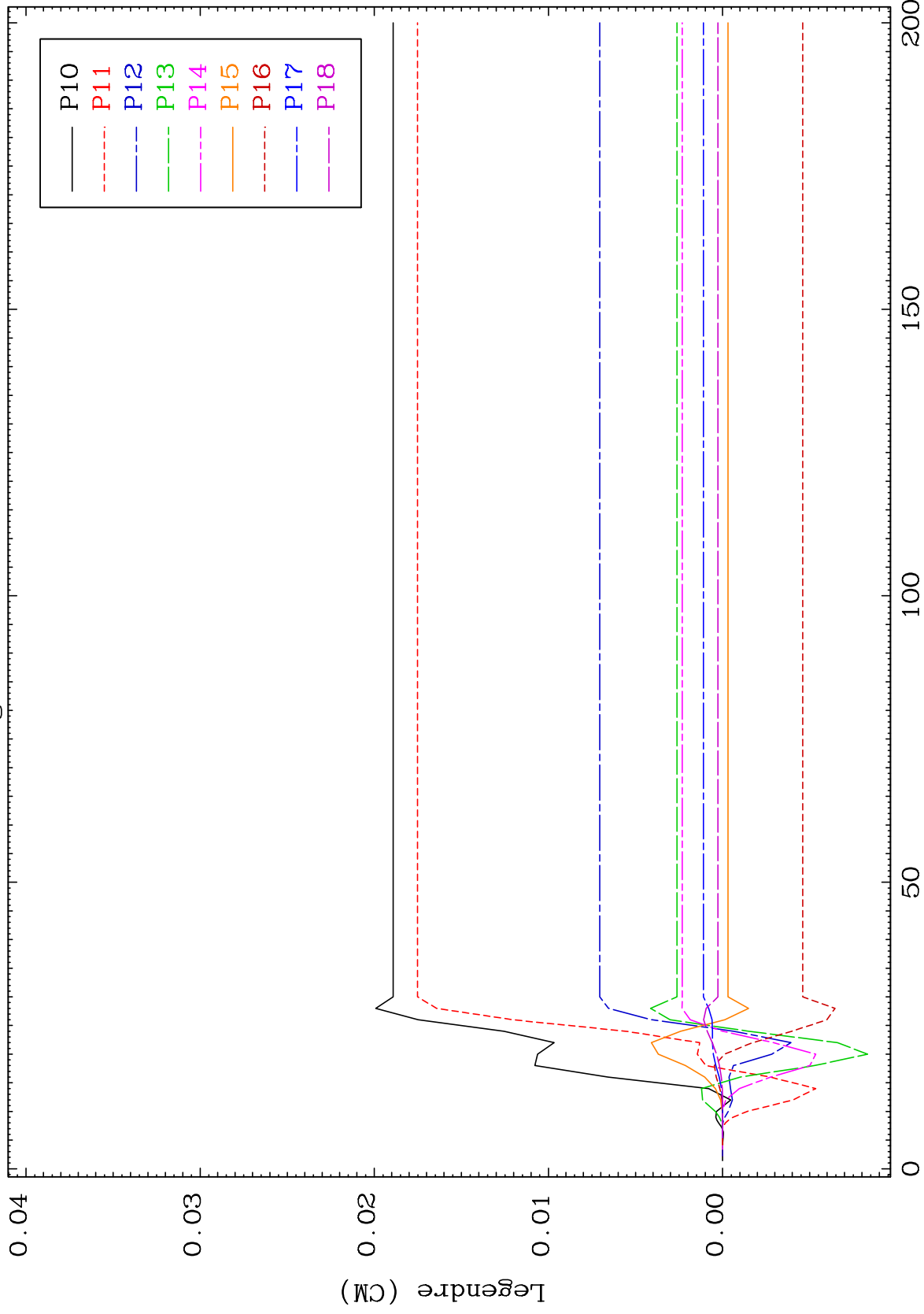


56-Ba-133

MAT 5634

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

56-Ba-133



48

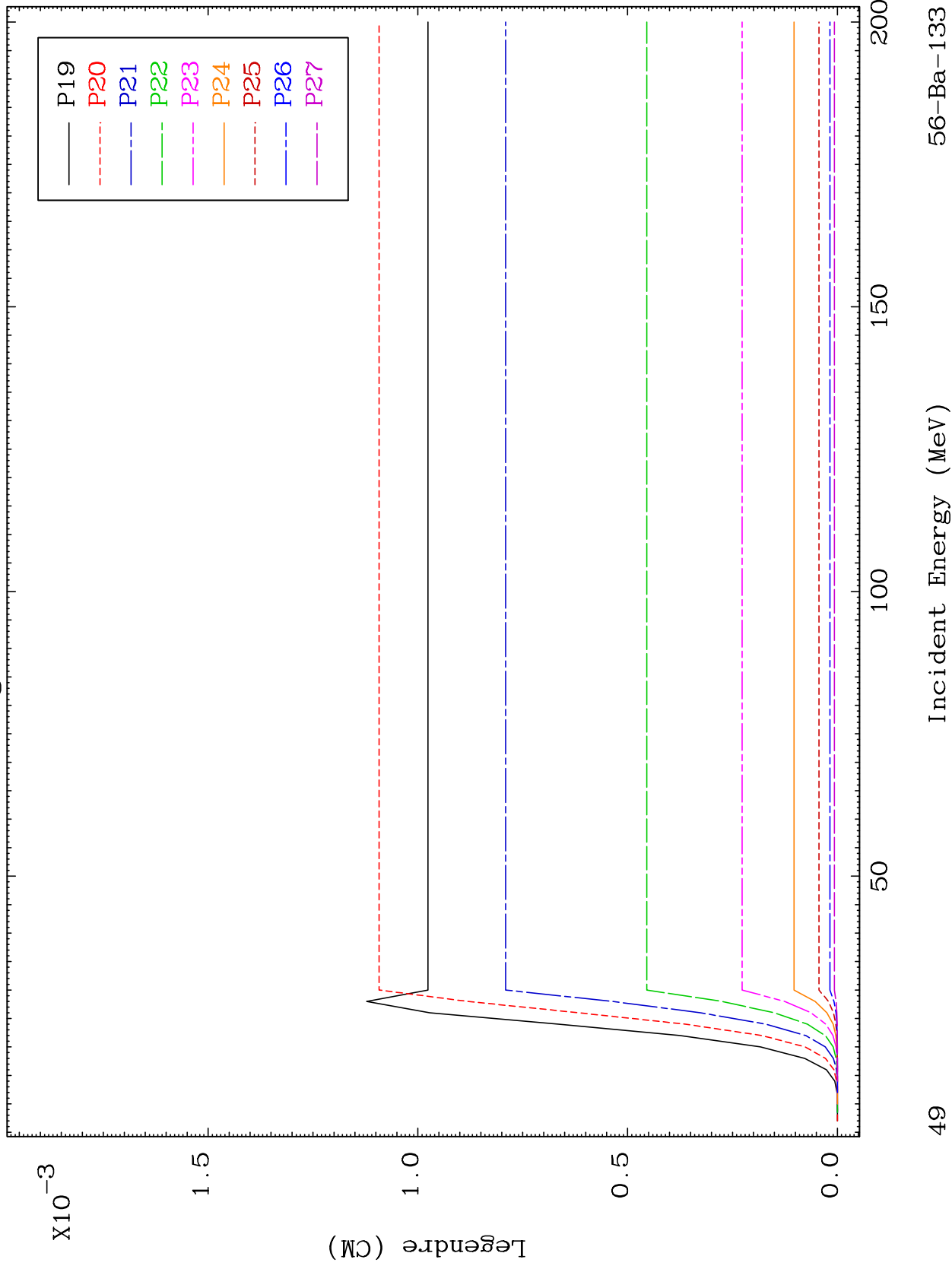
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

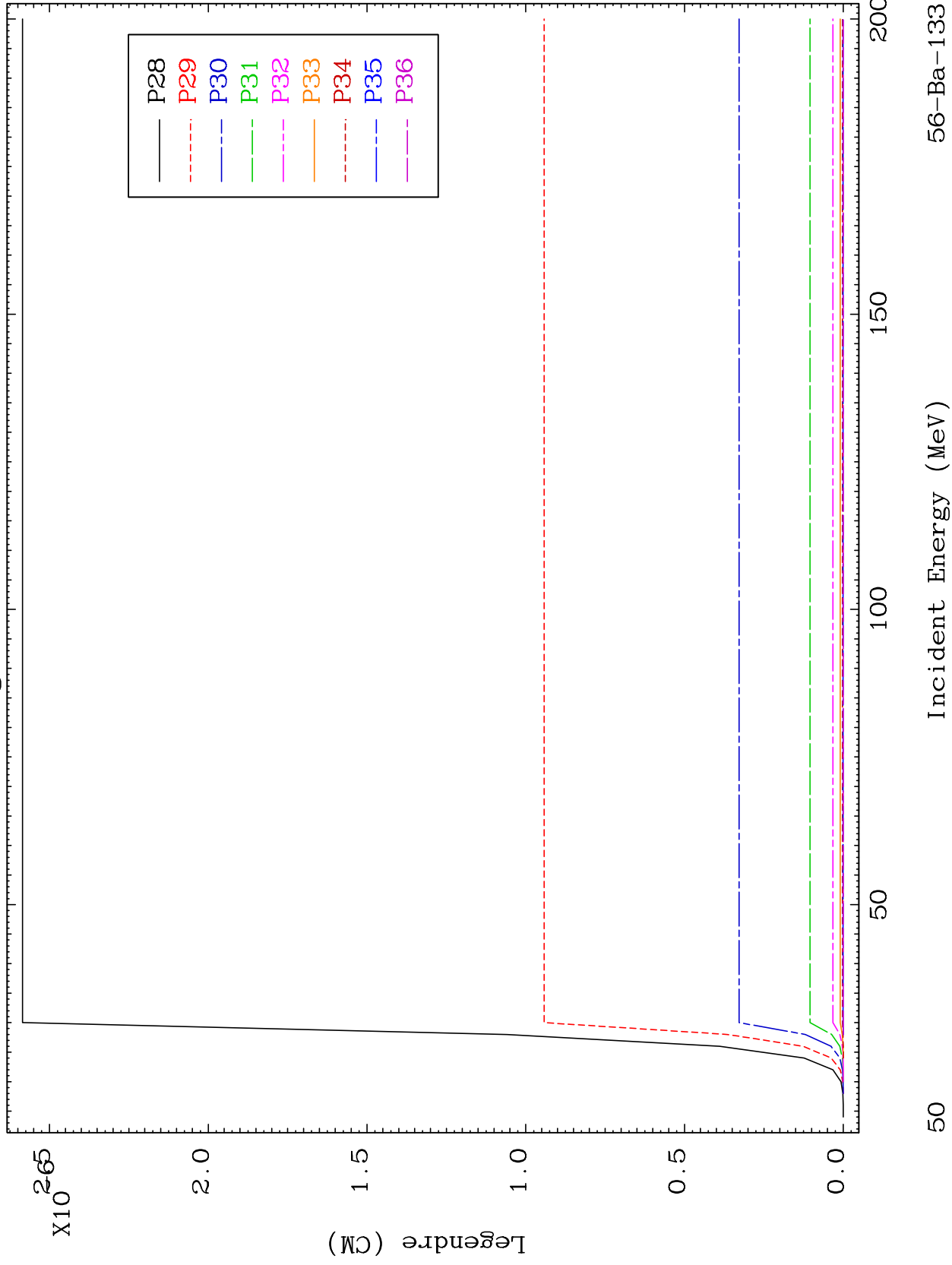
56-Ba-133



MAT 5634

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

56-Ba-133



50

50

100

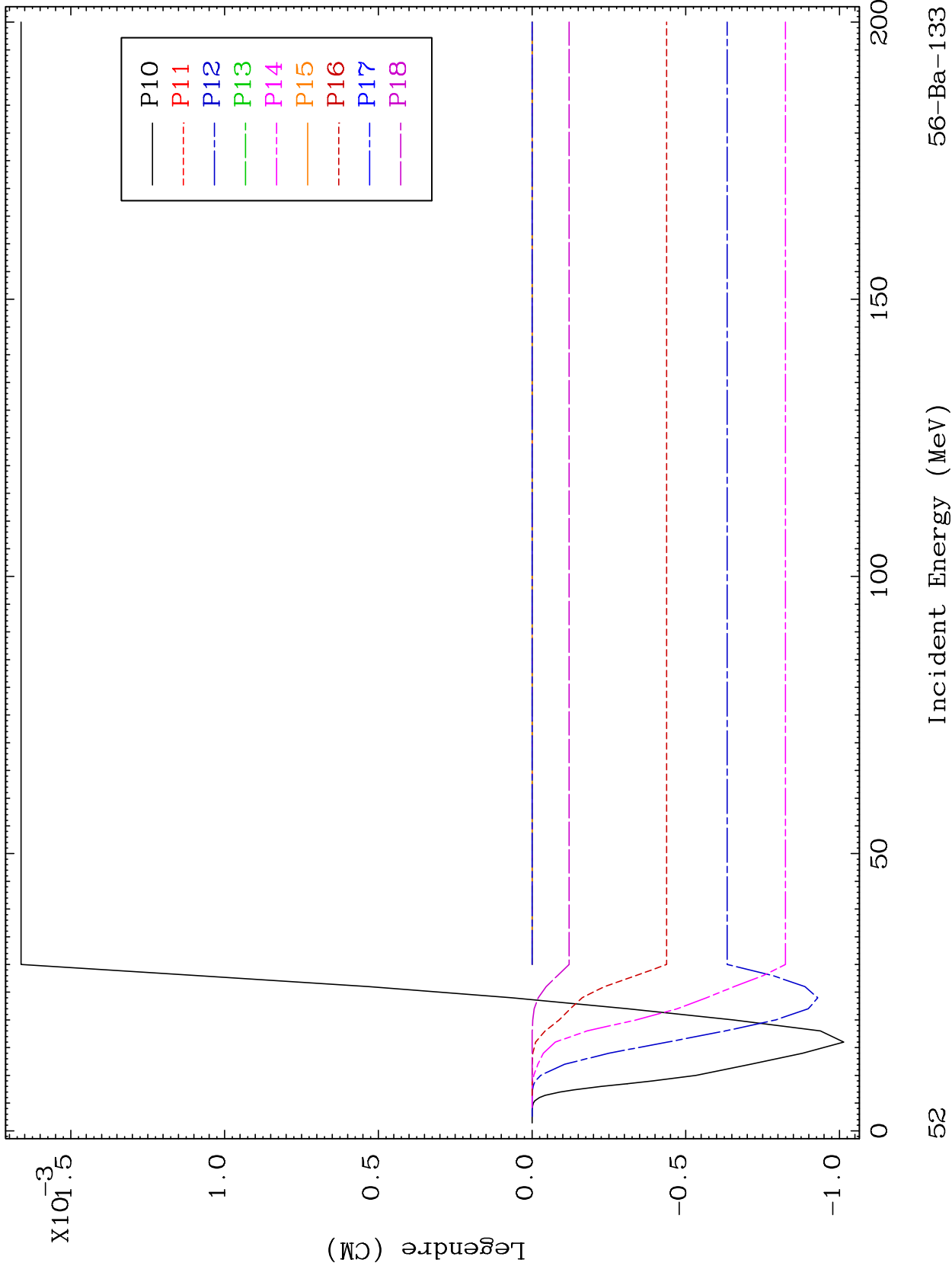
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200

MAT 5634

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

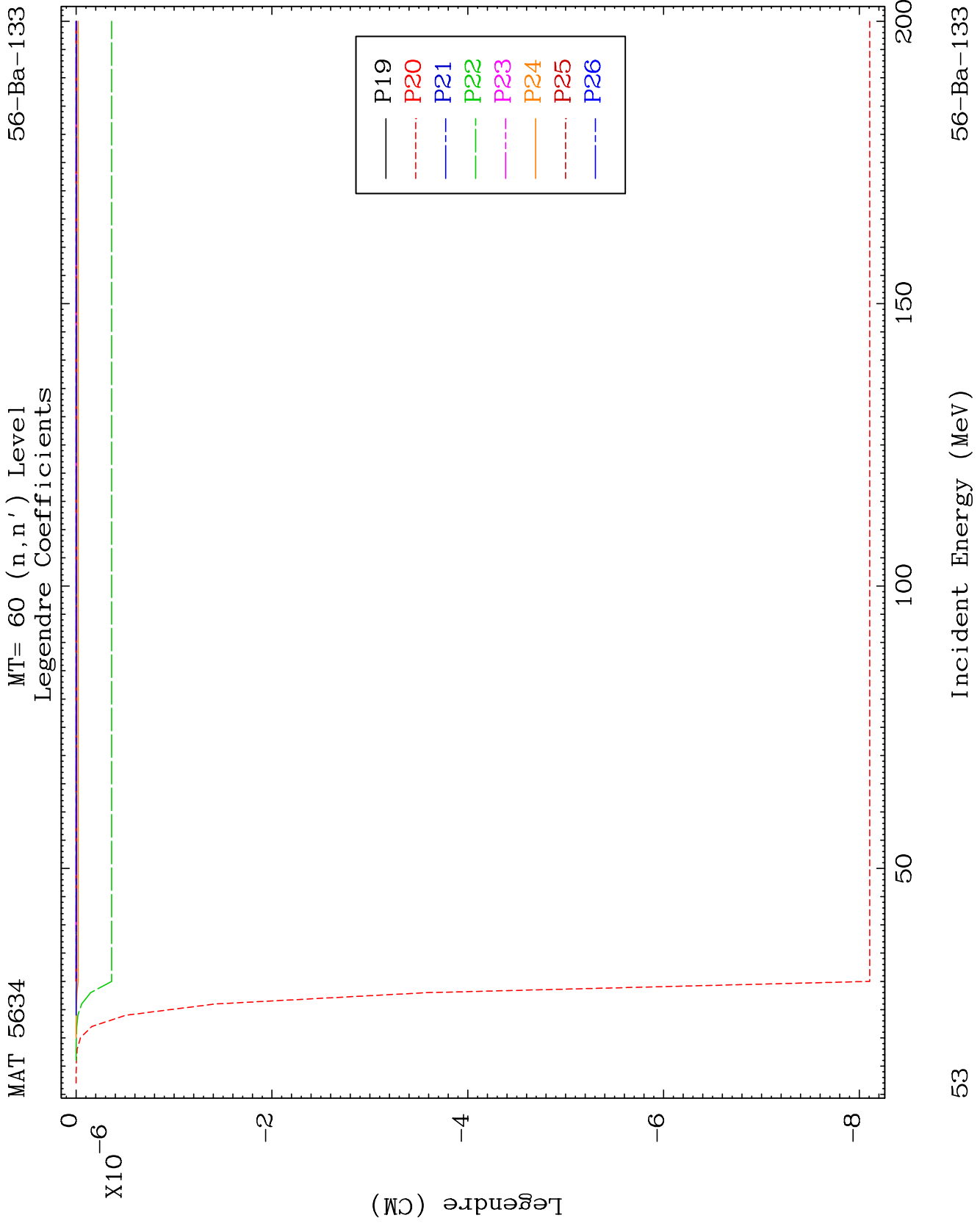
56-Ba-133



52

Incident Energy (MeV)

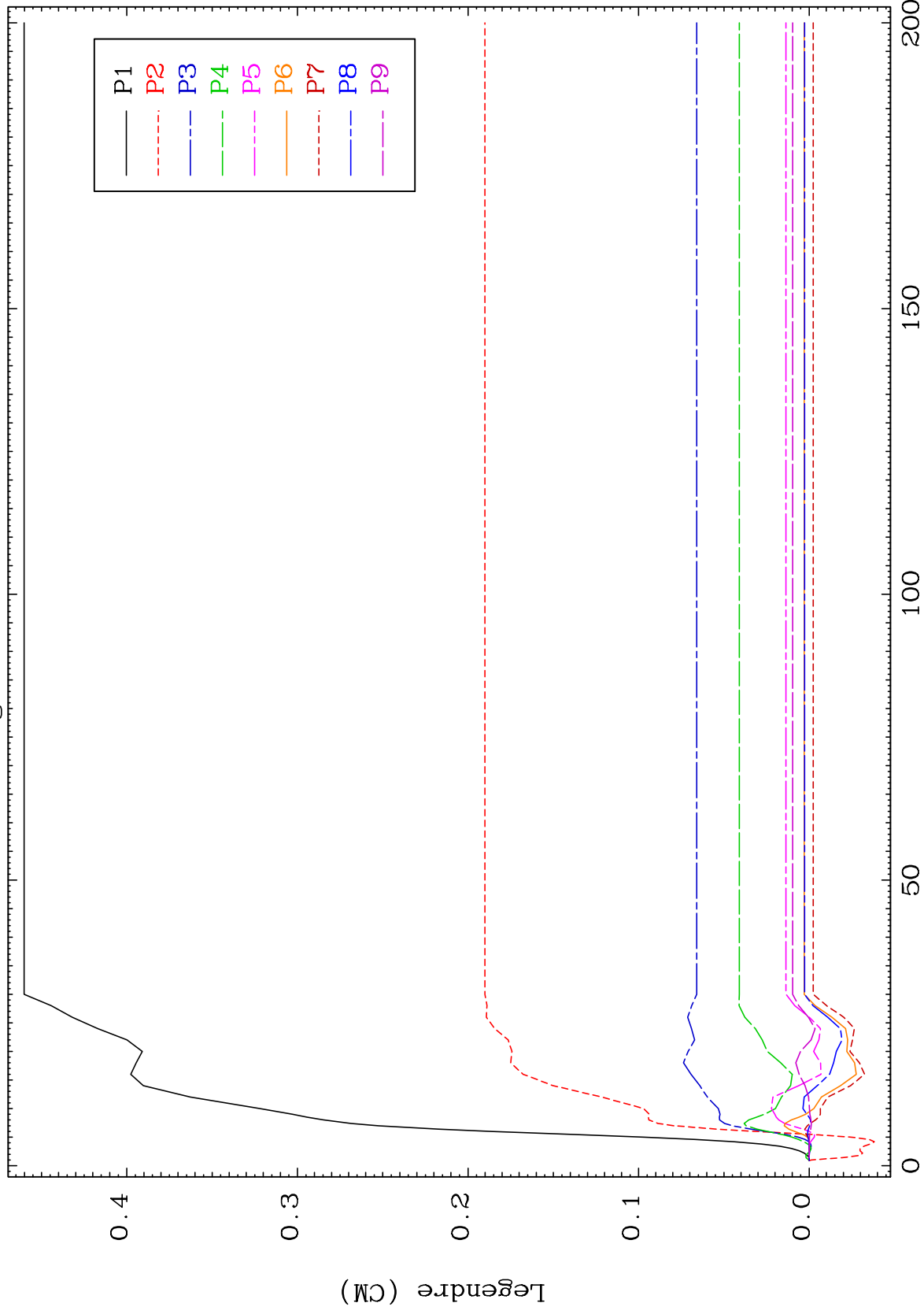
56-Ba-133



MAT 5634

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

56-Ba-133



56-Ba-133

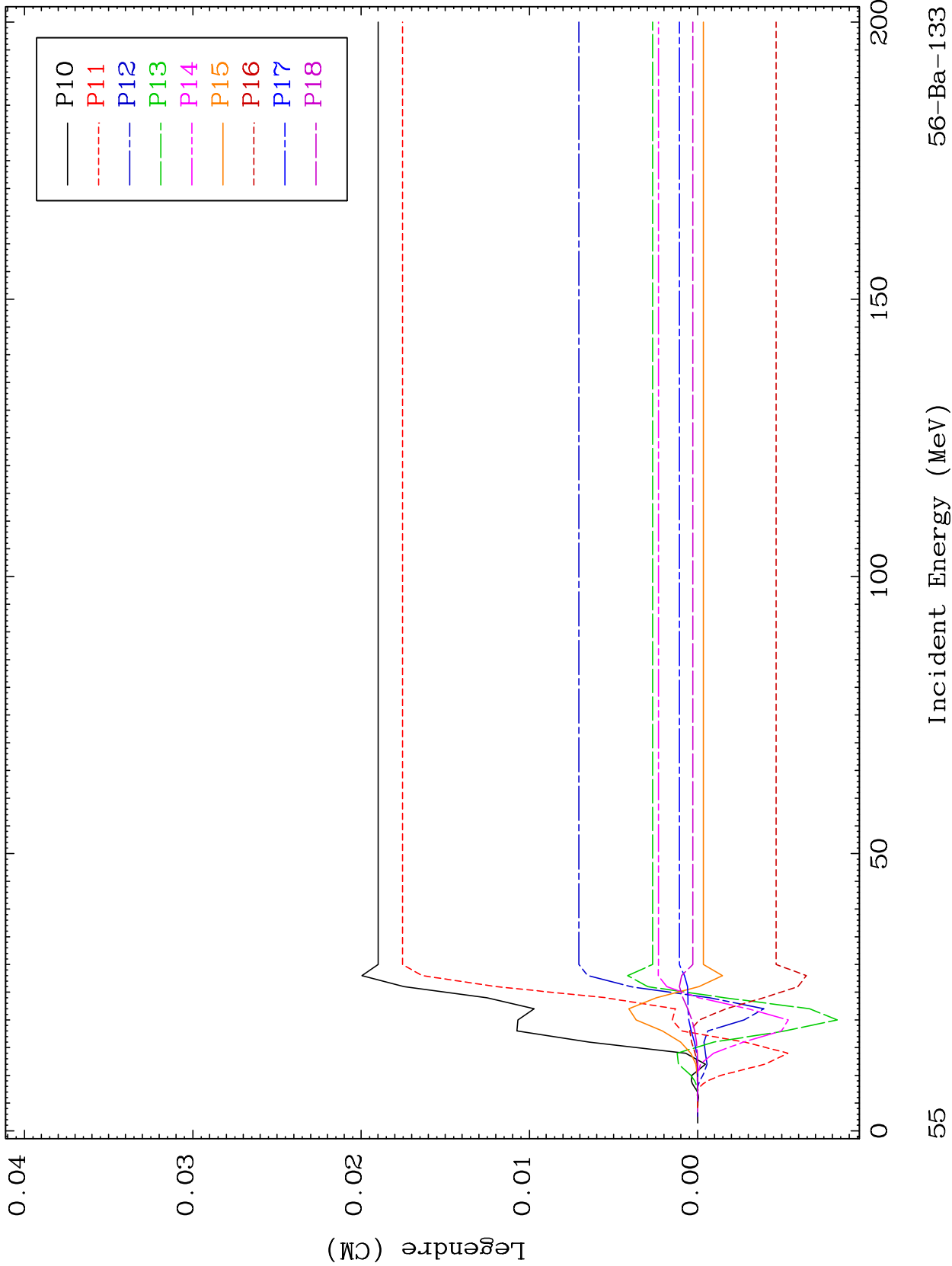
Incident Energy (MeV)

54

MAT 5634

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

56-Ba-133



56-Ba-133

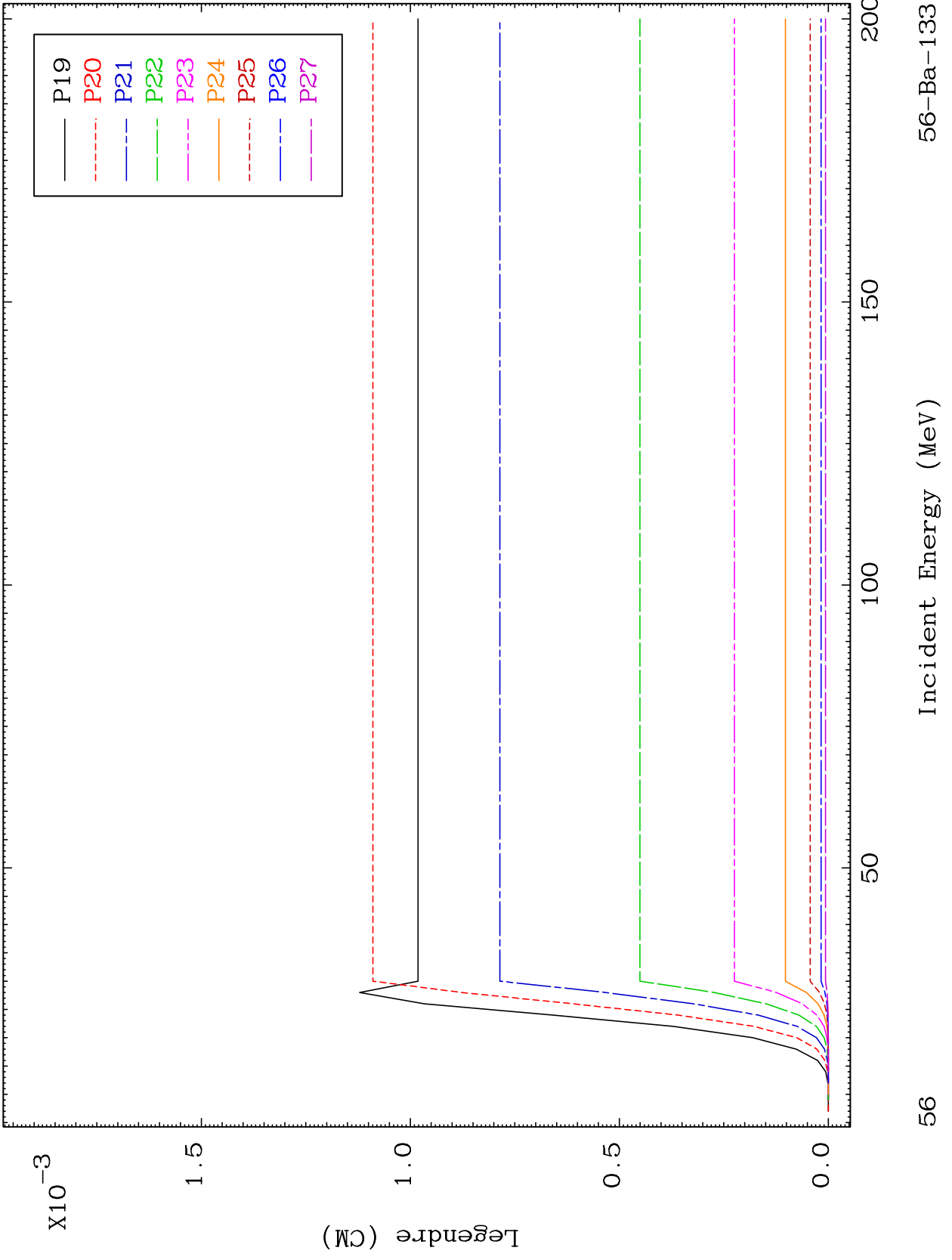
Incident Energy (MeV)

55

MAT 5634

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

56-Ba-133

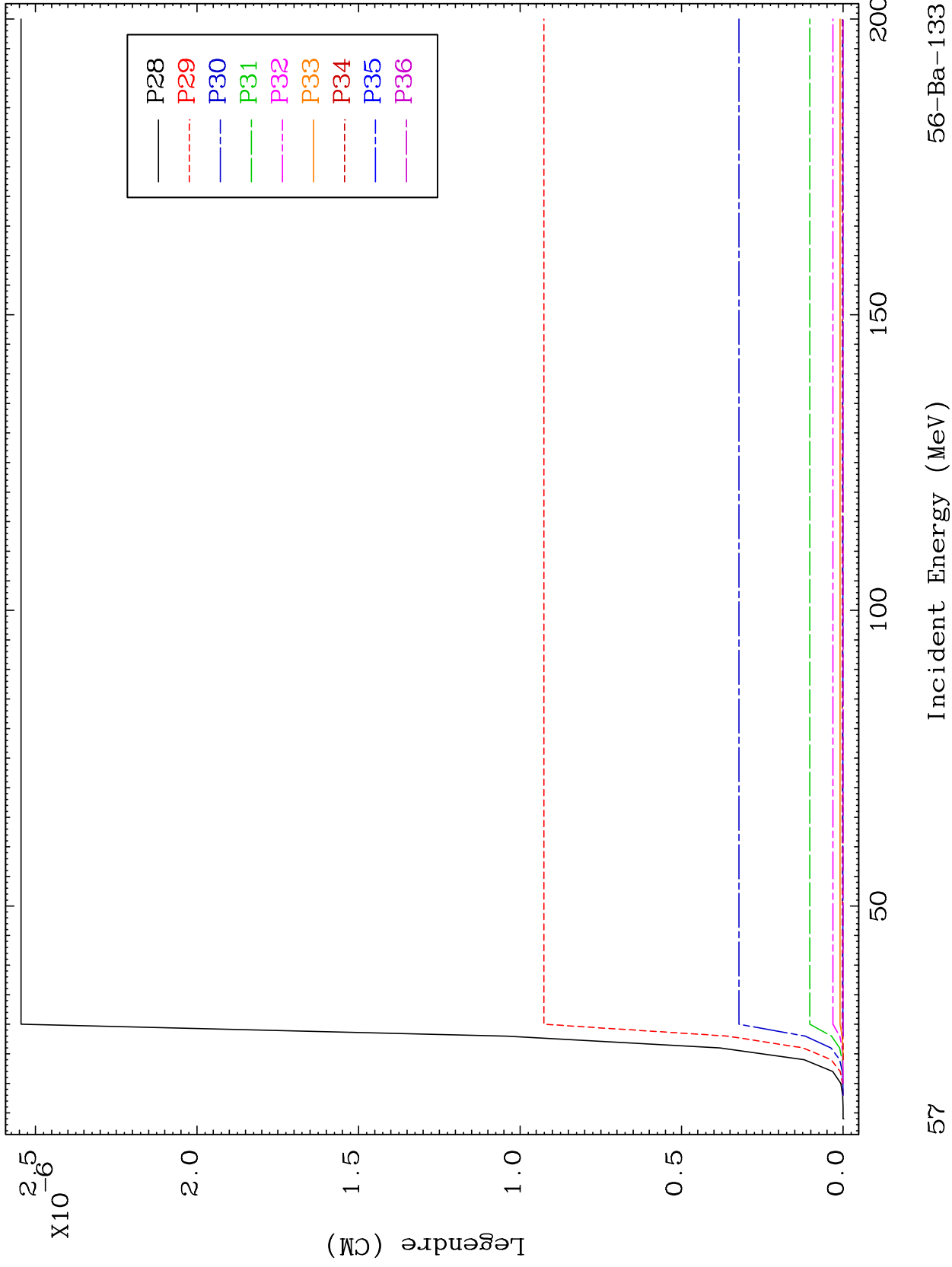


56

MAT 5634

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

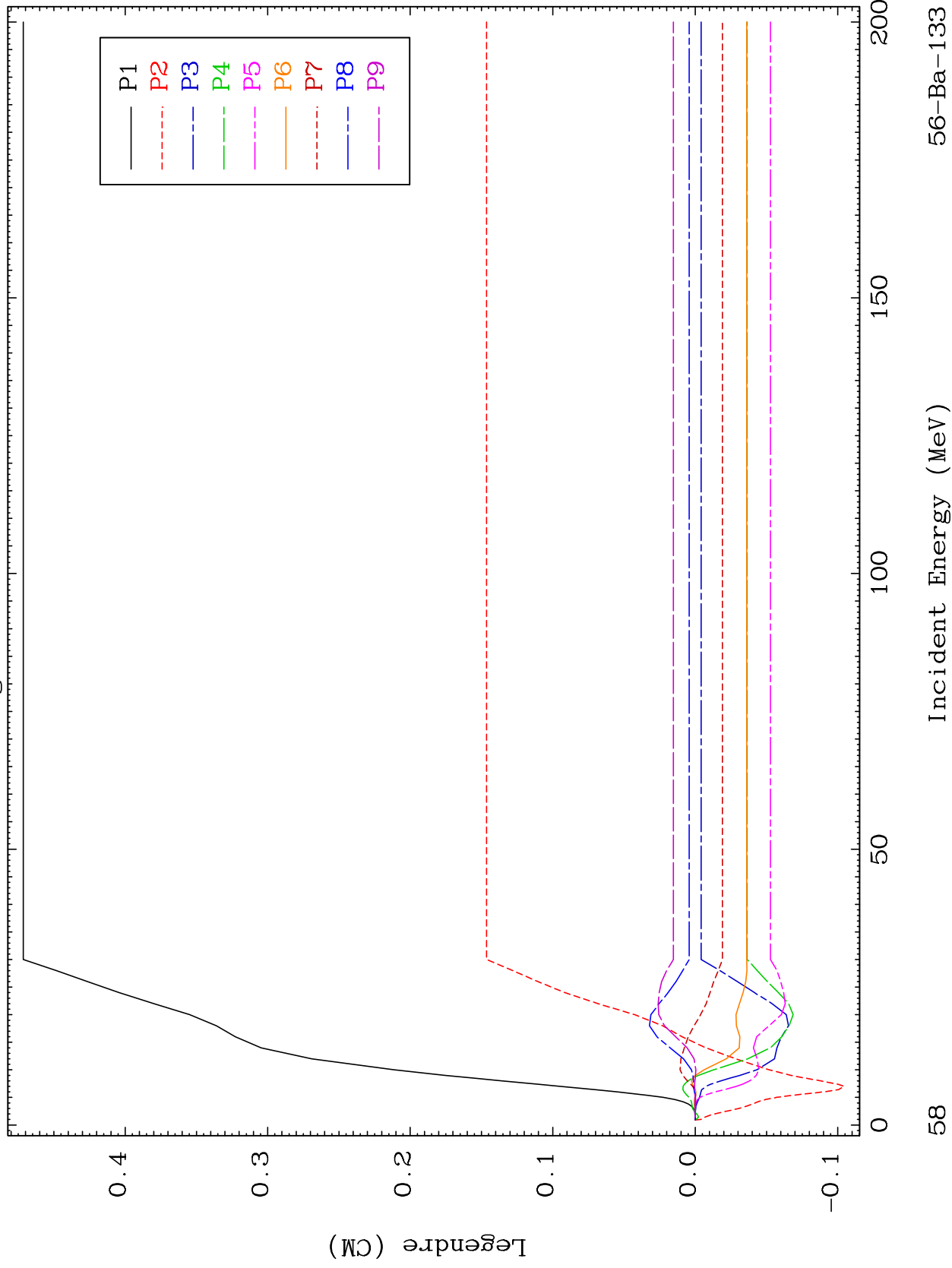
56-Ba-133



MAT 5634

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

56-Ba-133



56-Ba-133

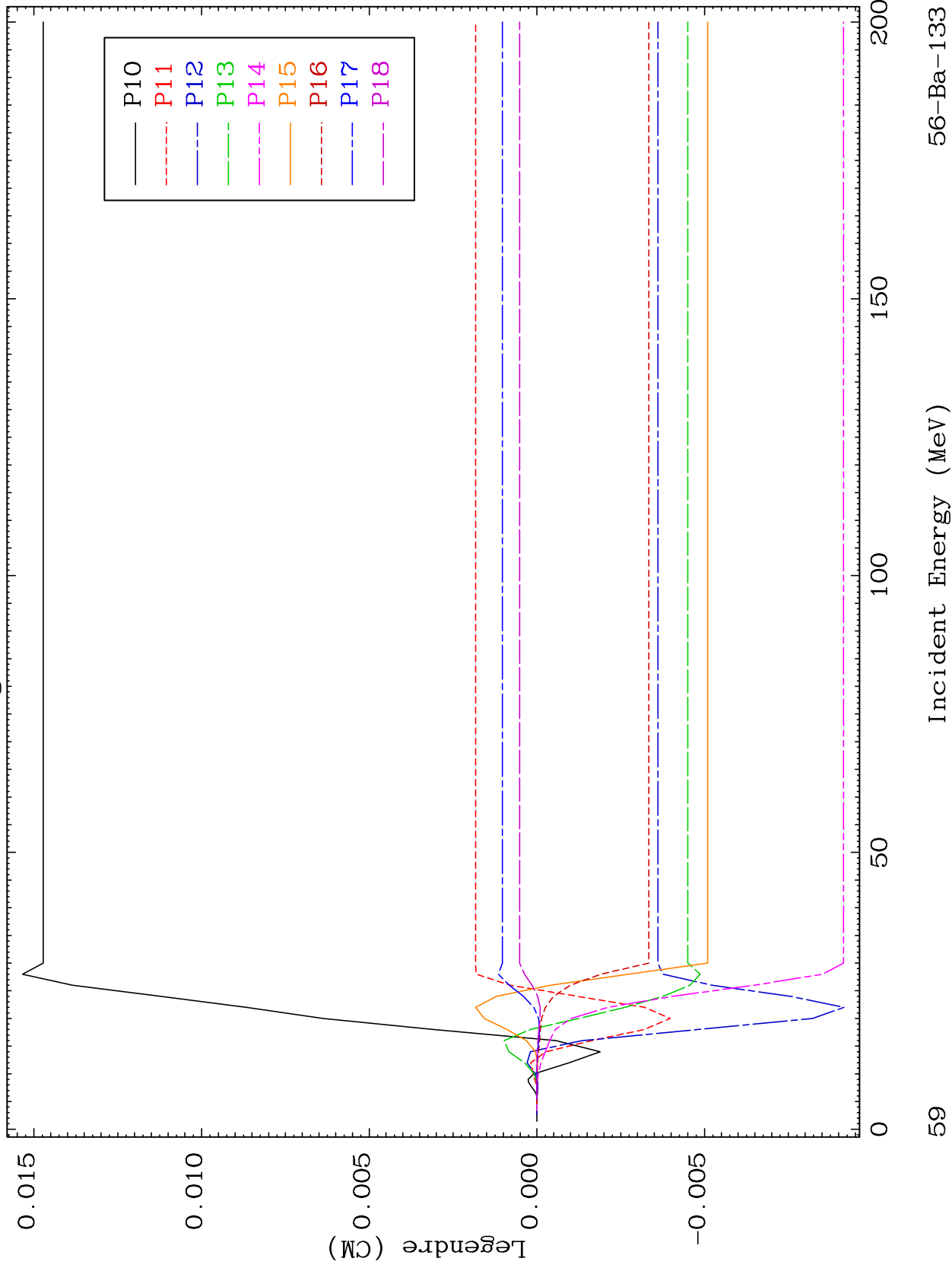
Incident Energy (MeV)

58

MAT 5634

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

56-Ba-133



56-Ba-133

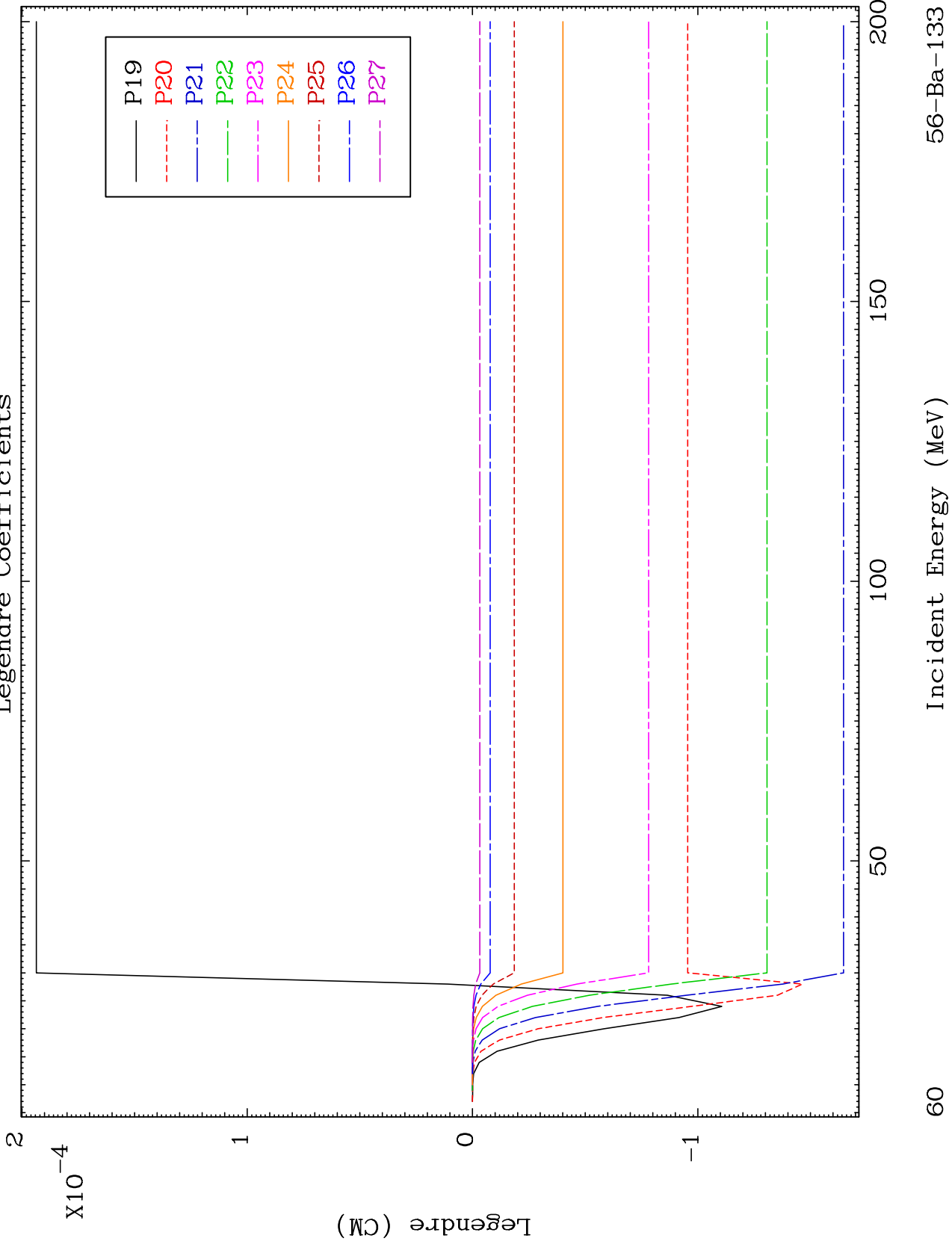
Incident Energy (MeV)

59

MAT 5634

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

56-Ba-133



60

Incident Energy (MeV)

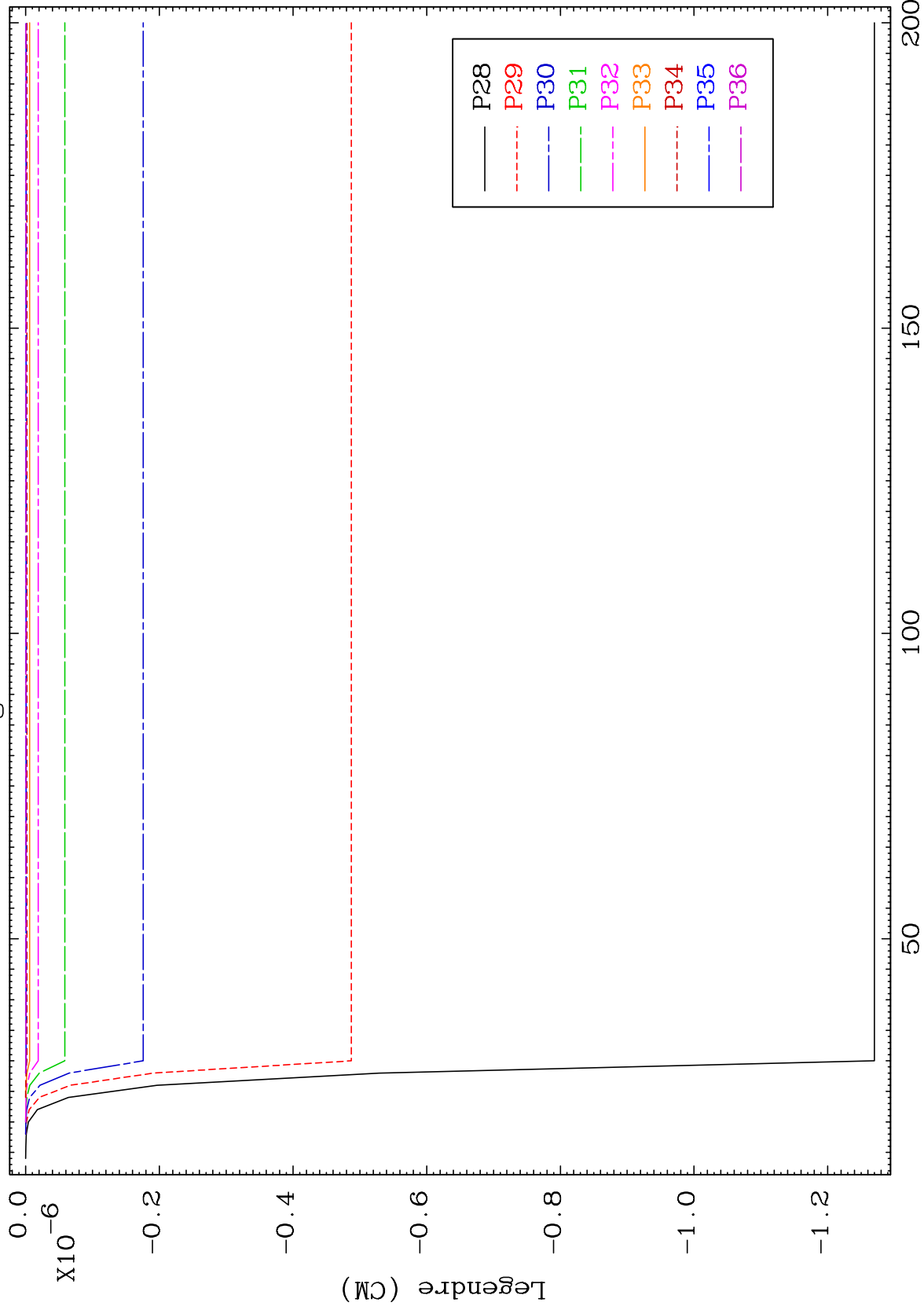
56-Ba-133

MAT 5634

MT= 62 (n,n') Level

56-Ba-133

Legendre Coefficients



56-Ba-133

Incident Energy (MeV)

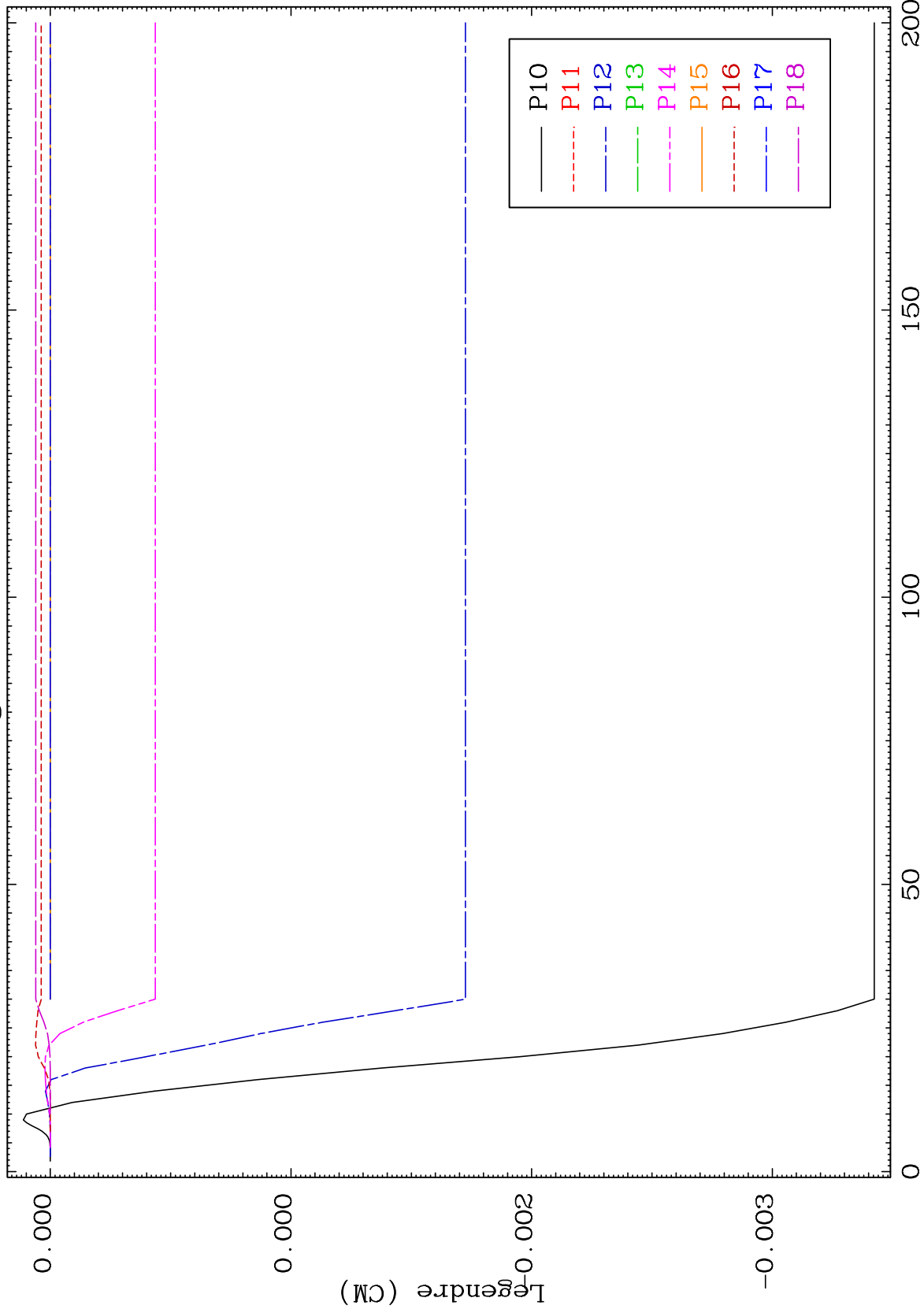
61

MAT 5634

MT= 63 (n,n') Level

56-Ba-133

Legendre Coefficients



63

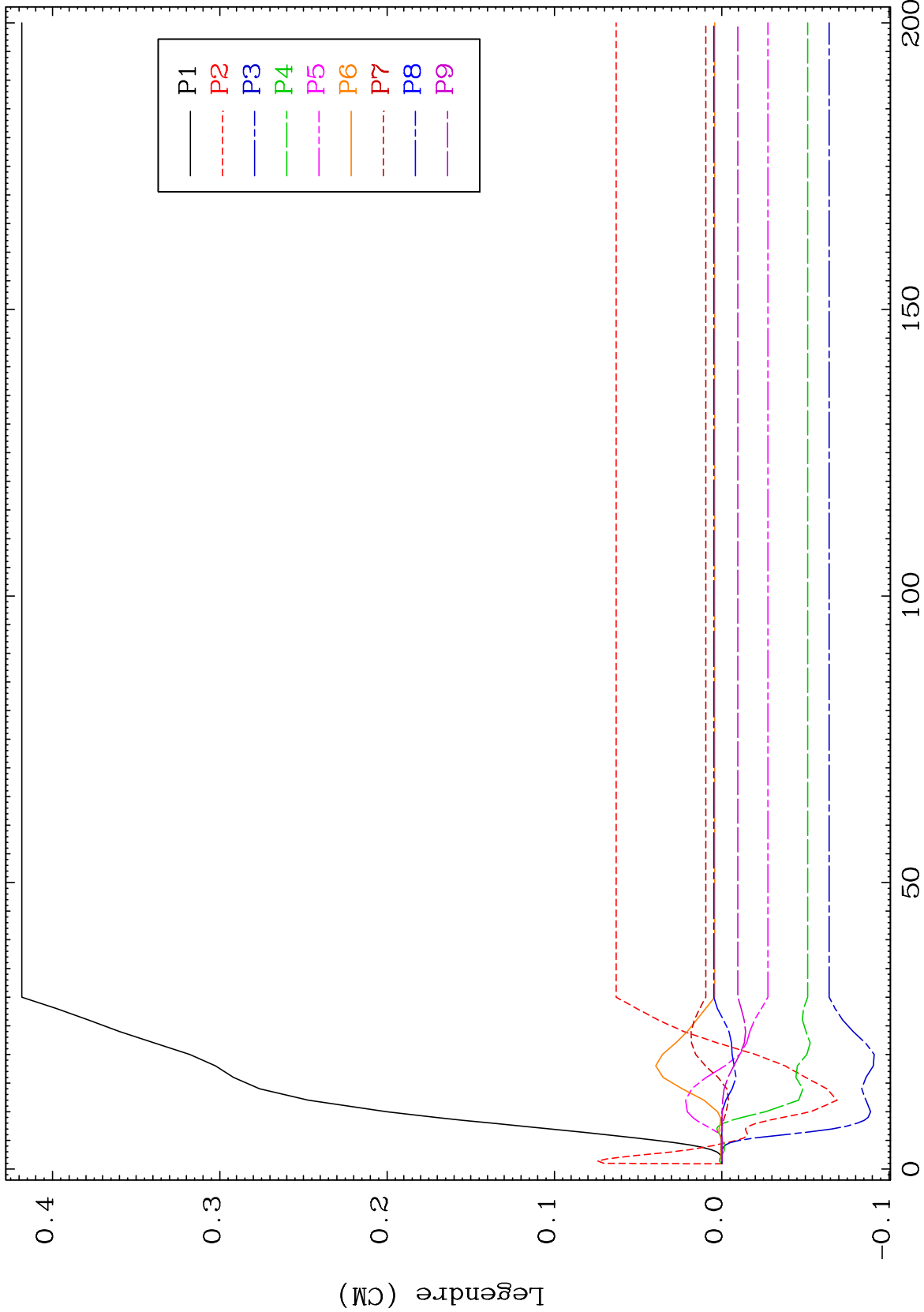
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



56-Ba-133

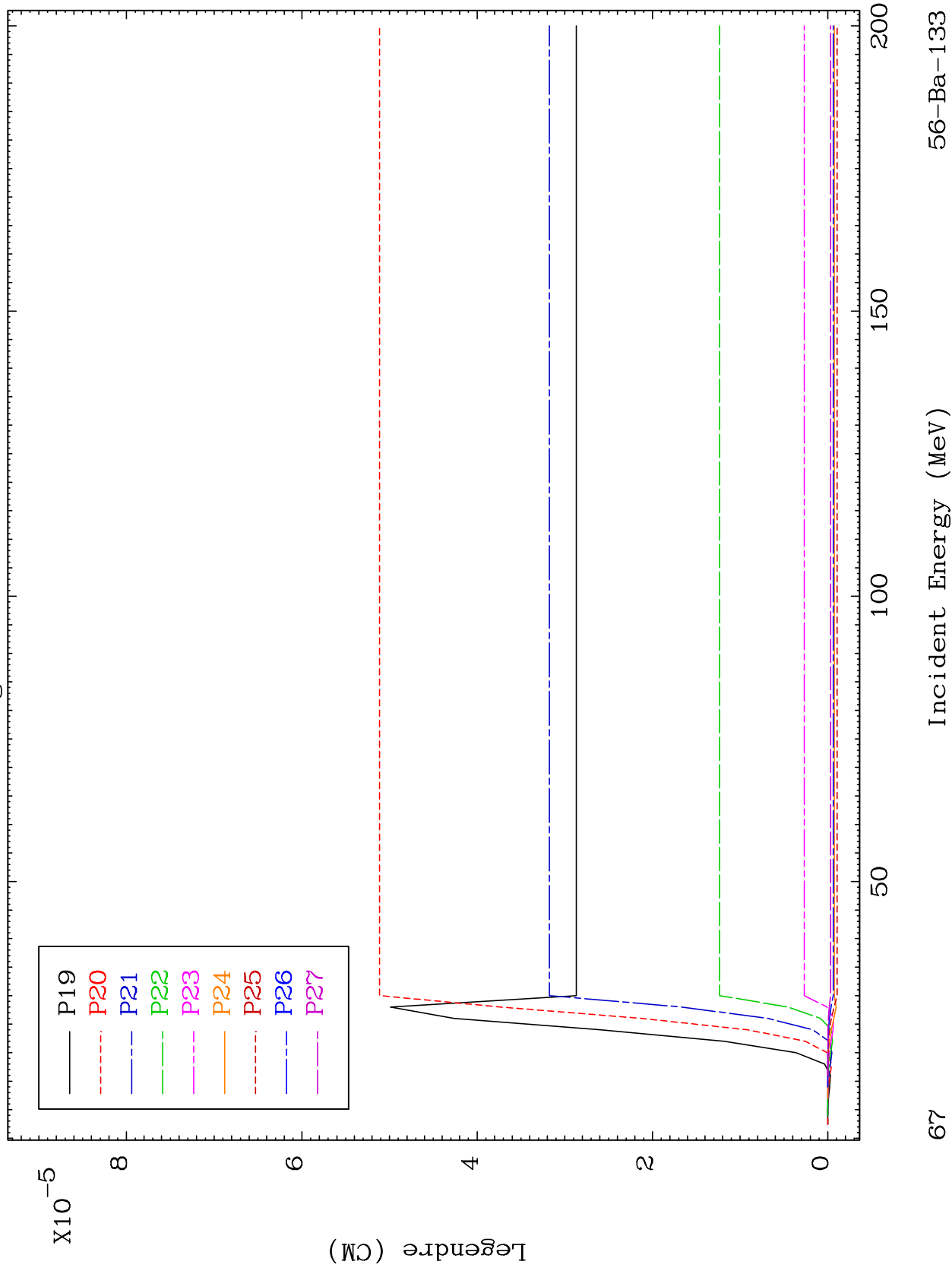
Incident Energy (MeV)

65

MAT 5634

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

56-Ba-133

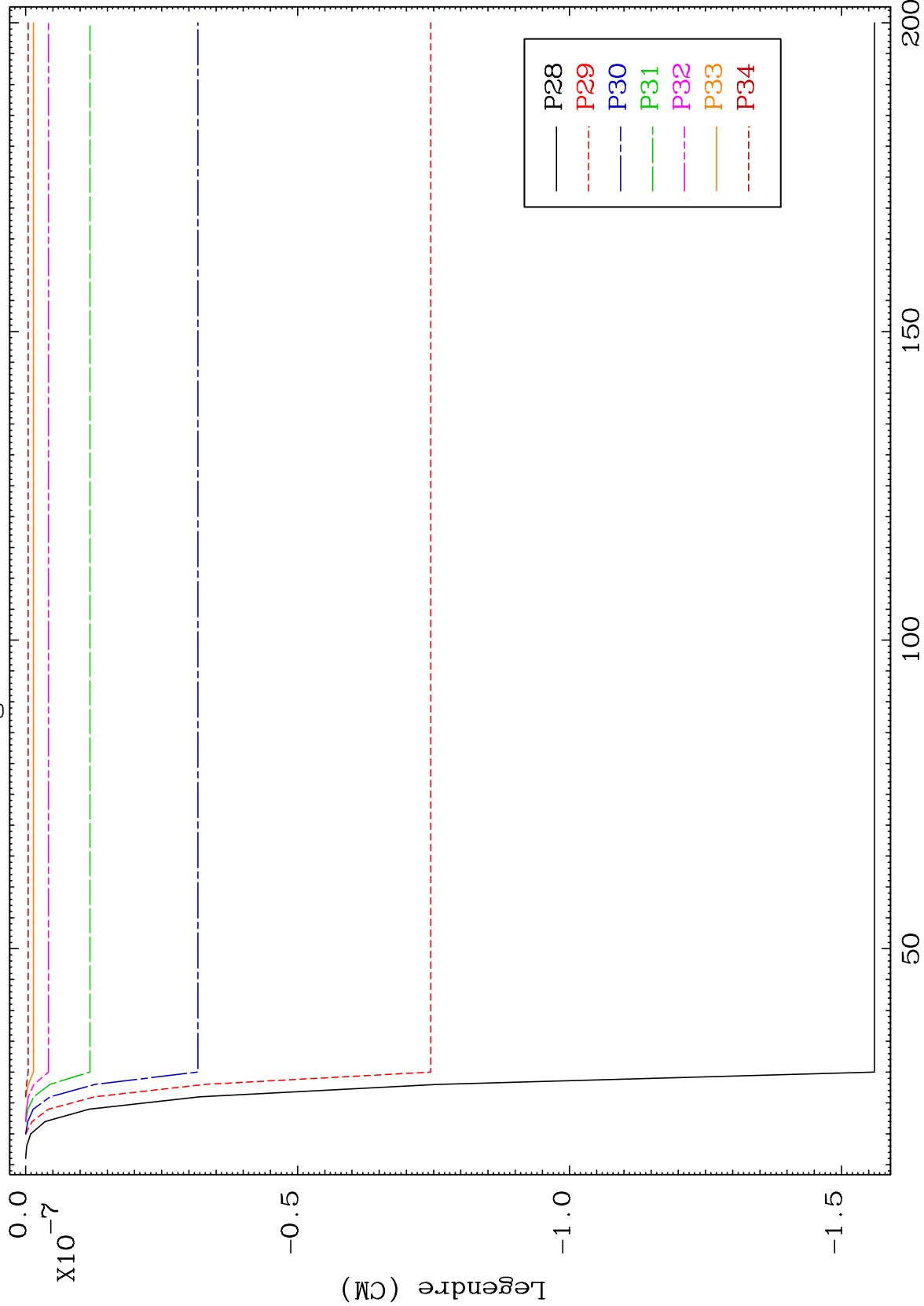


MAT 5634

MT= 64 (n,n') Level

56-Ba-133

Legendre Coefficients



56-Ba-133

Incident Energy (MeV)

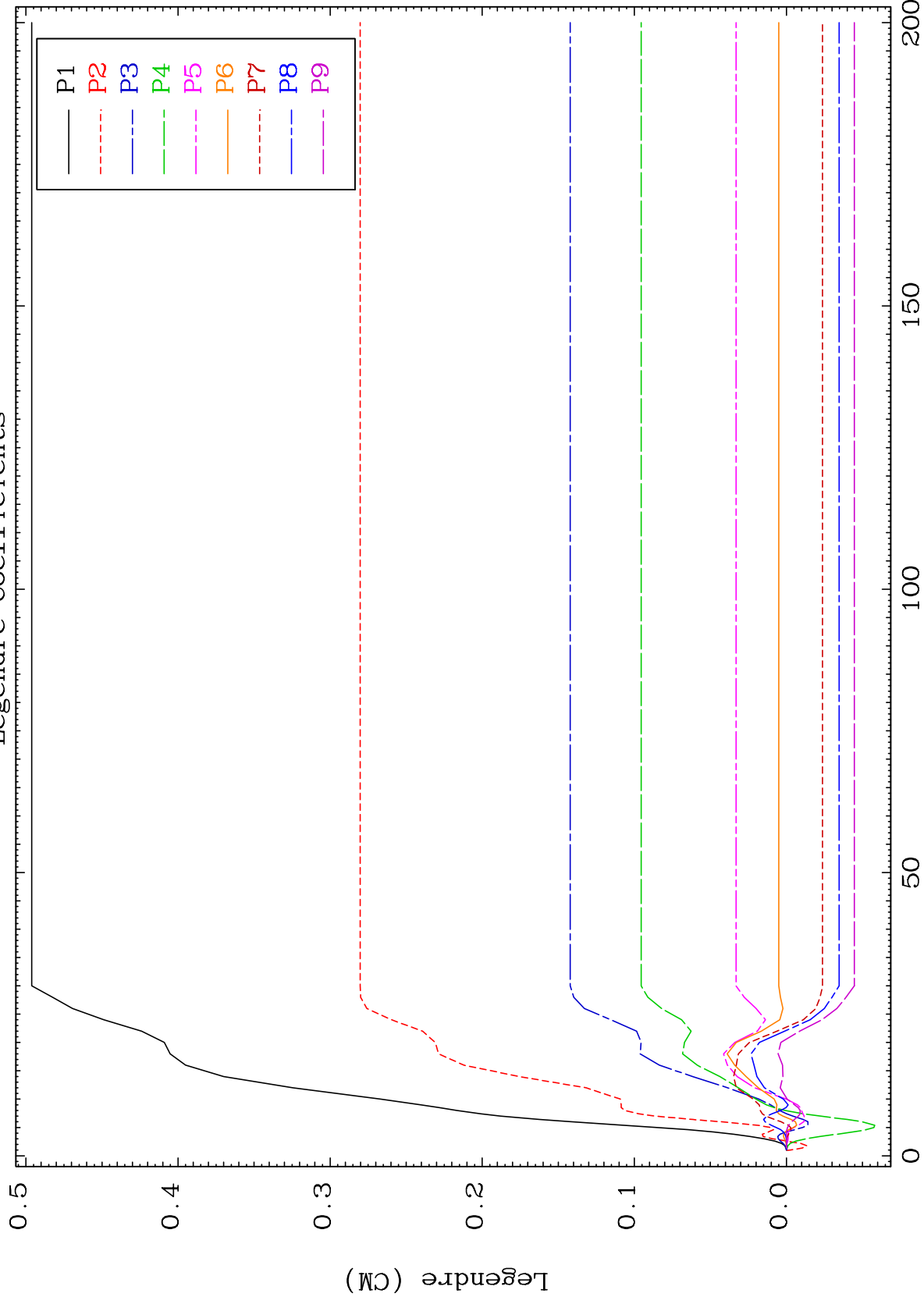
68

MAT 5634

MT= 65 (n,n') Level

56-Ba-133

Legendre Coefficients



69

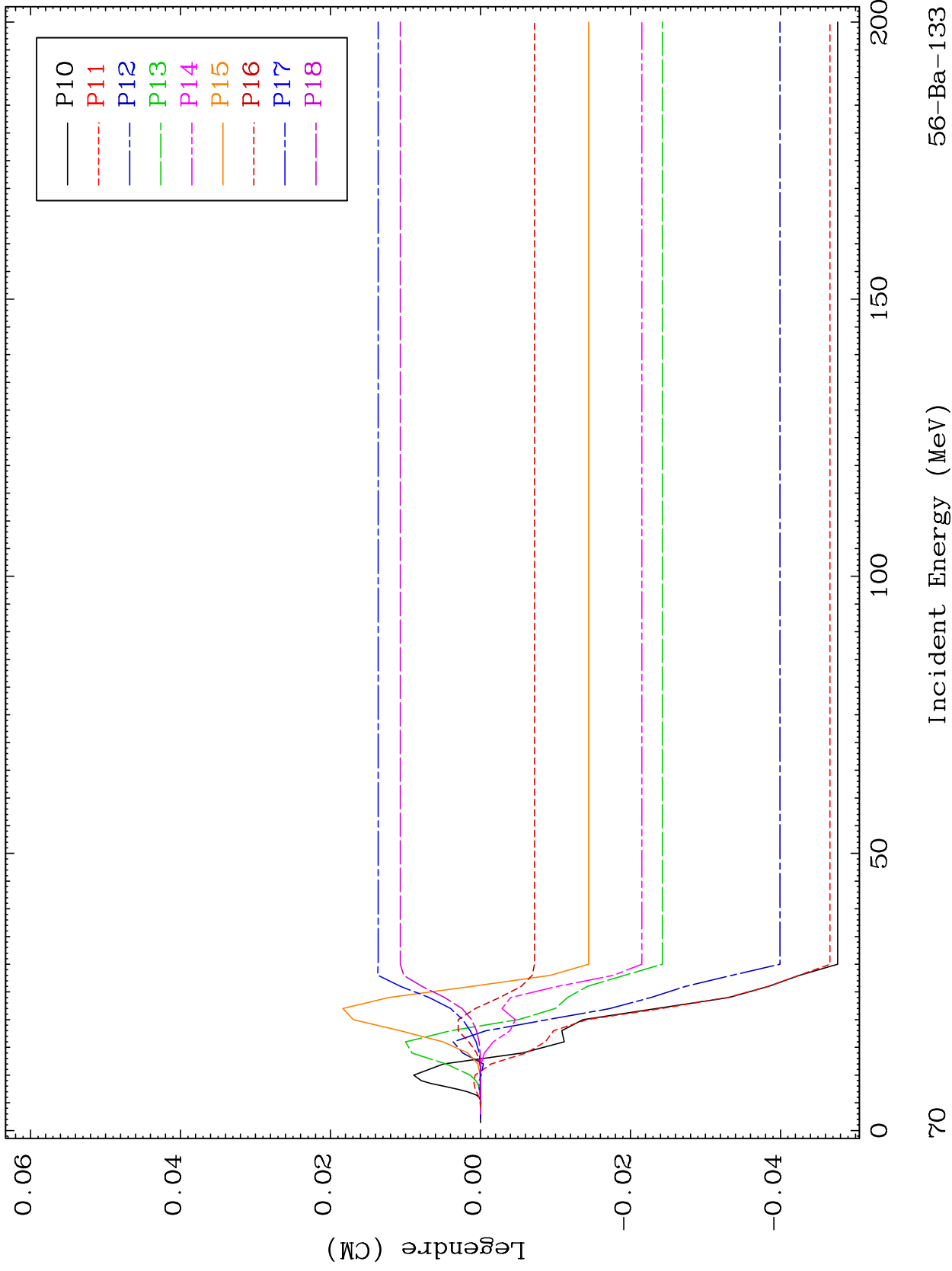
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



56-Ba-133

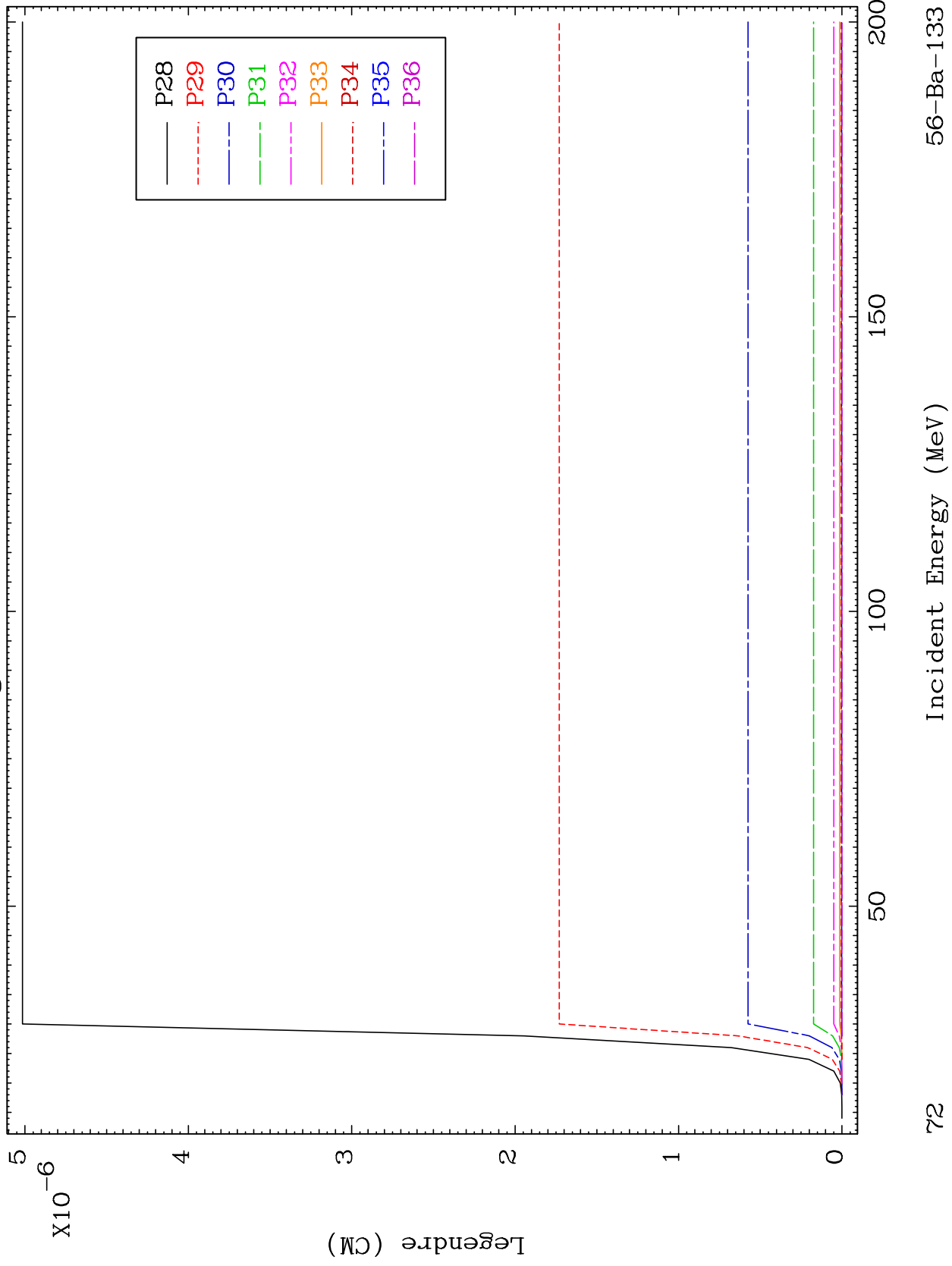
Incident Energy (MeV)

70

MAT 5634

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

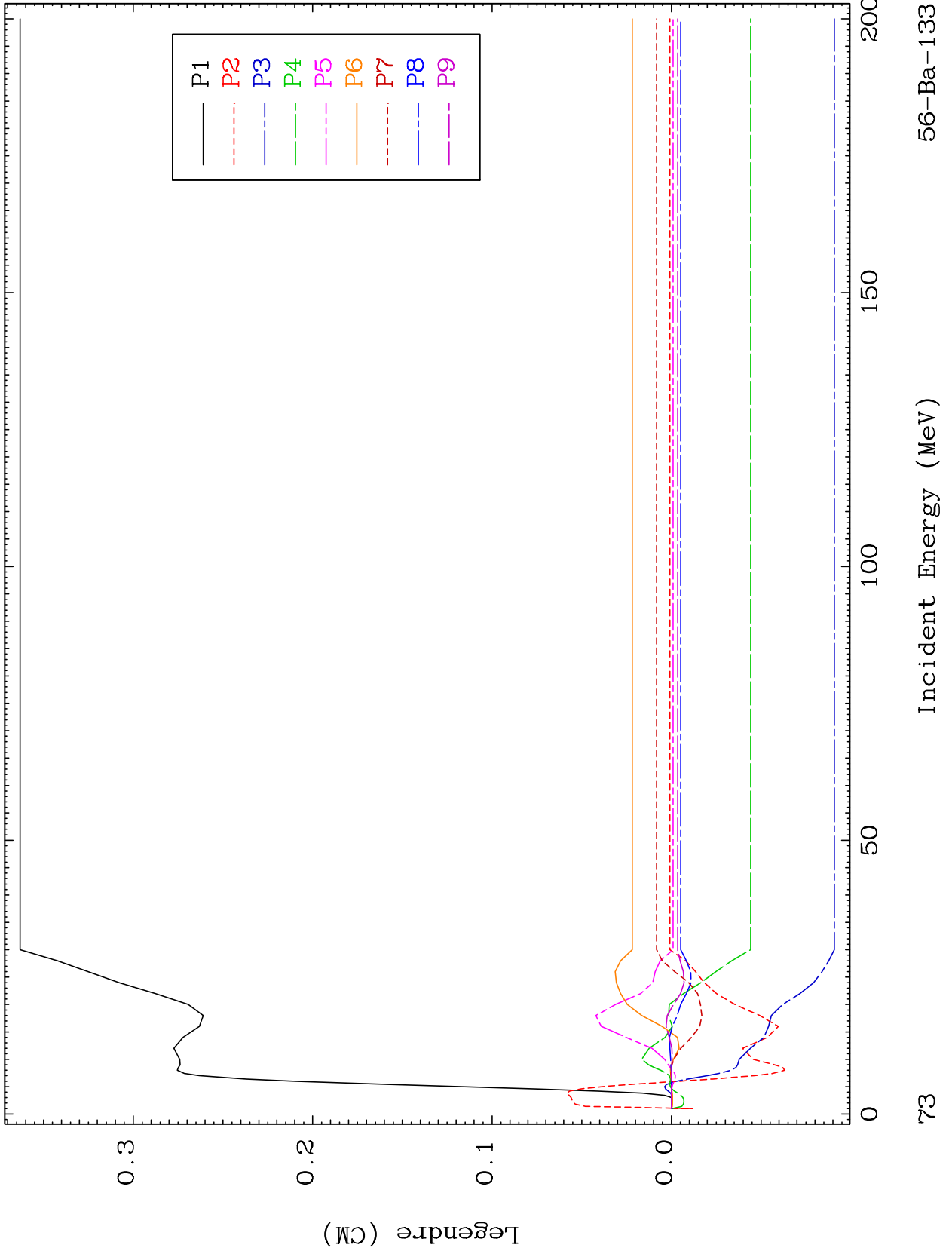
56-Ba-133



MAT 5634

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

56-Ba-133



73

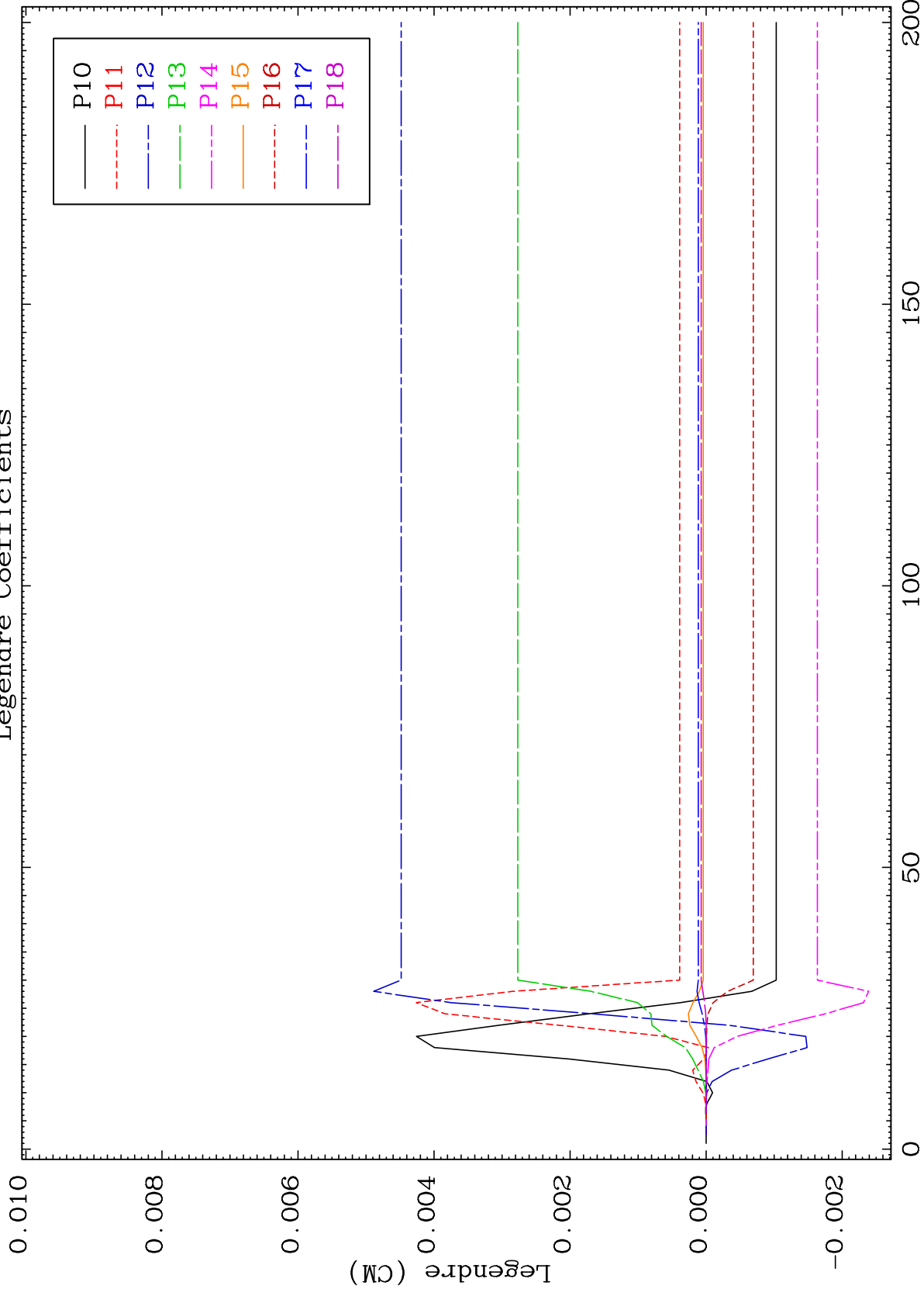
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



74

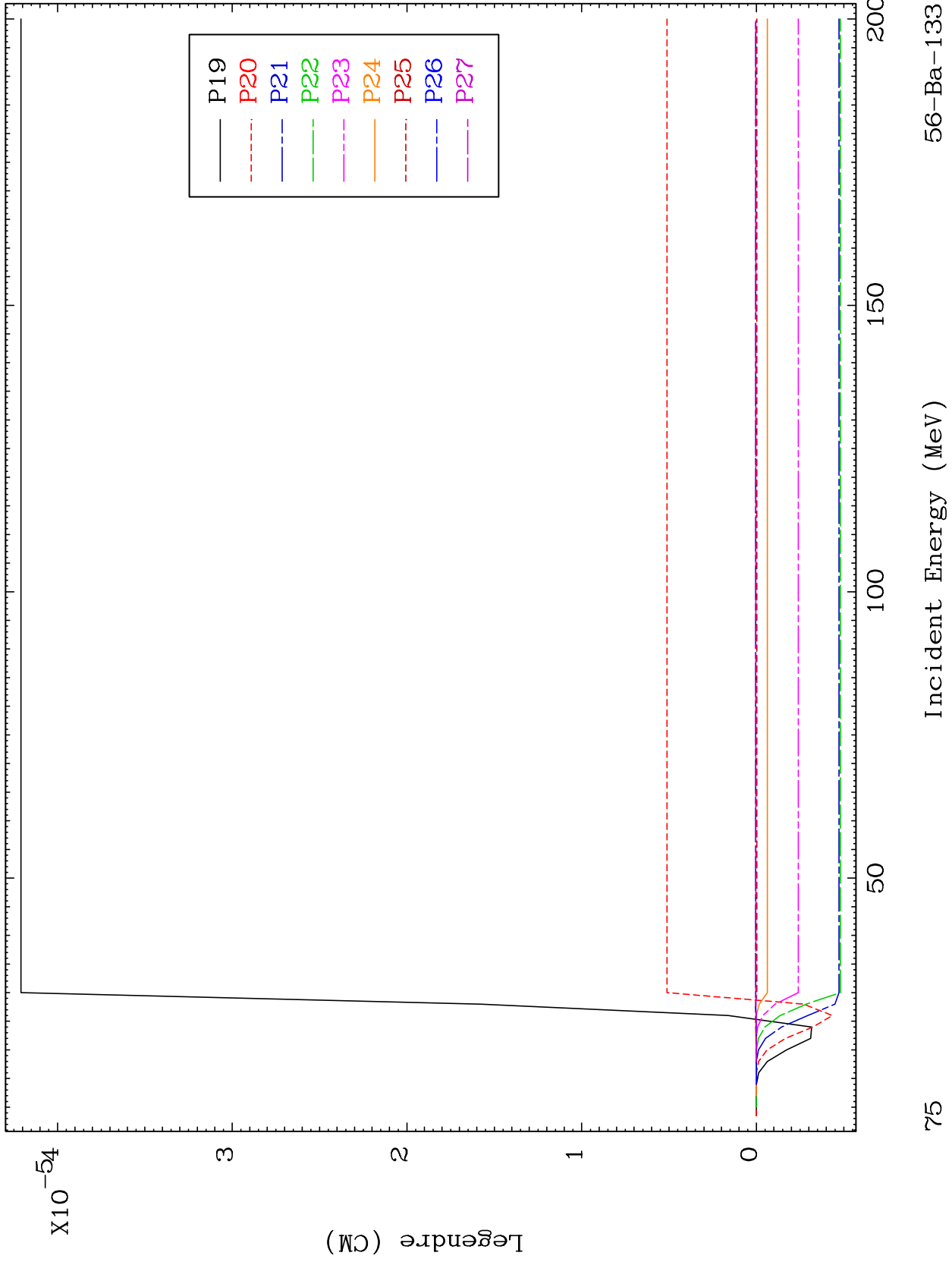
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

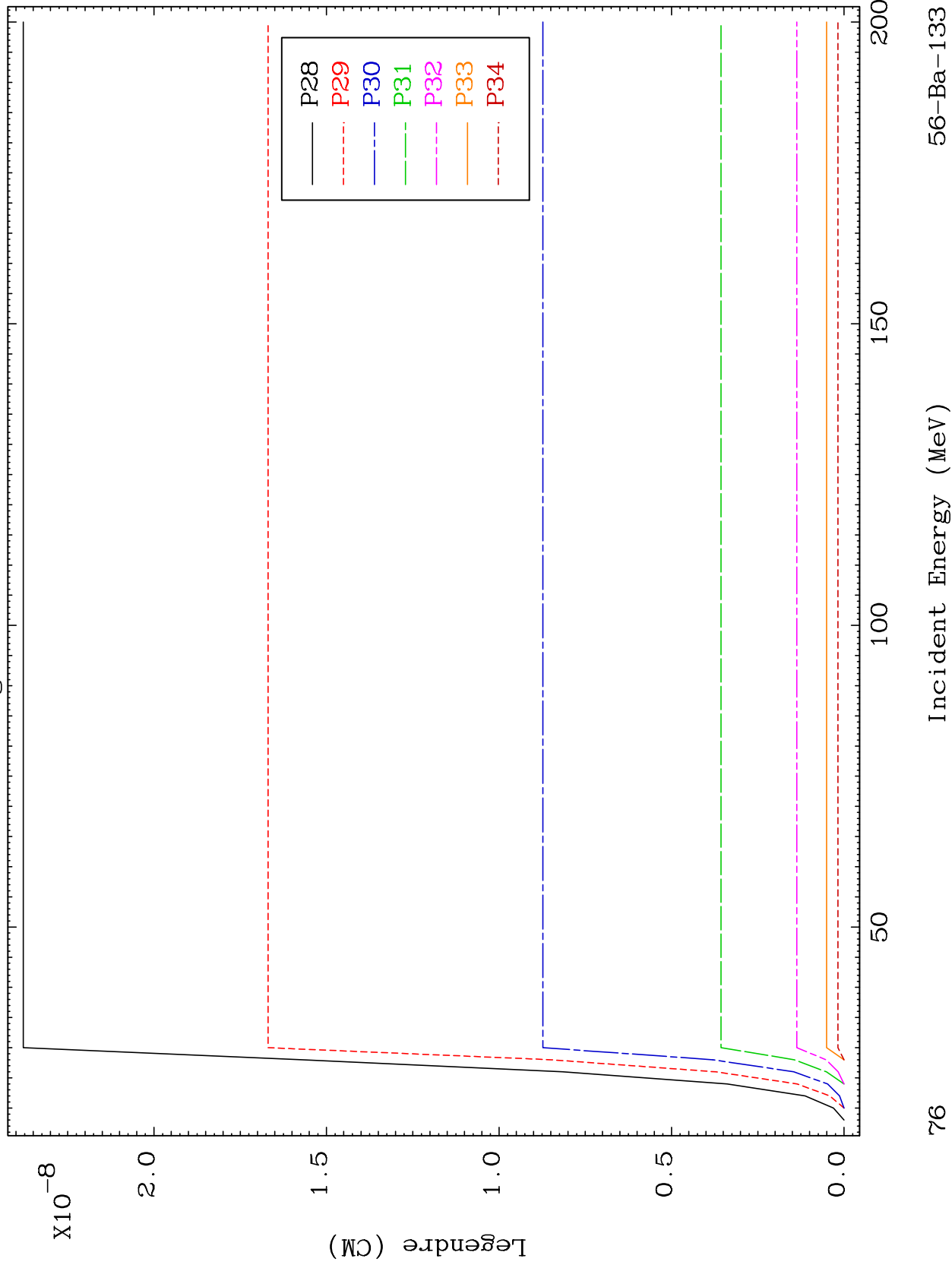
56-Ba-133



MAT 5634

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

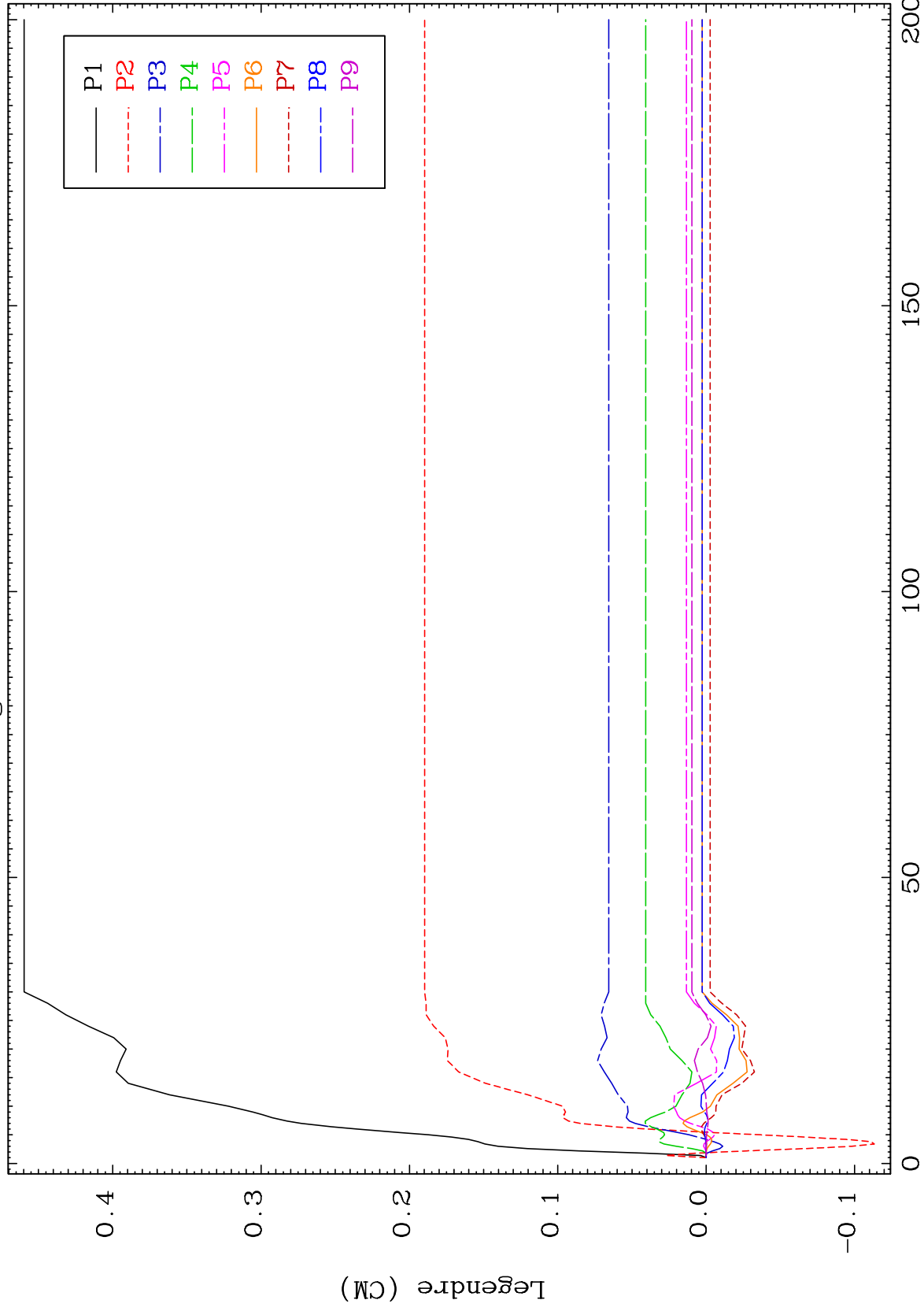
56-Ba-133



MAT 5634

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

56-Ba-133



77

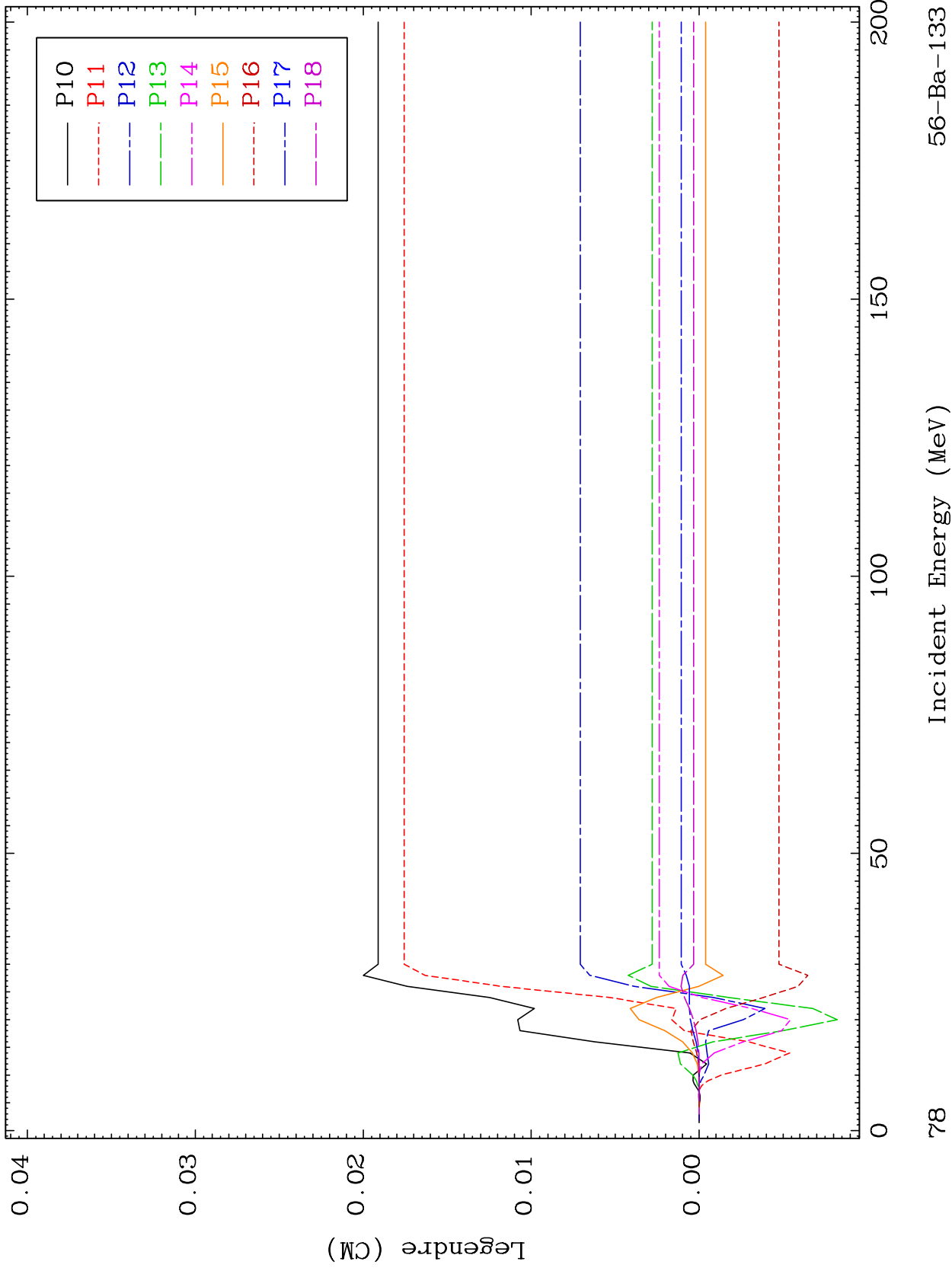
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



78

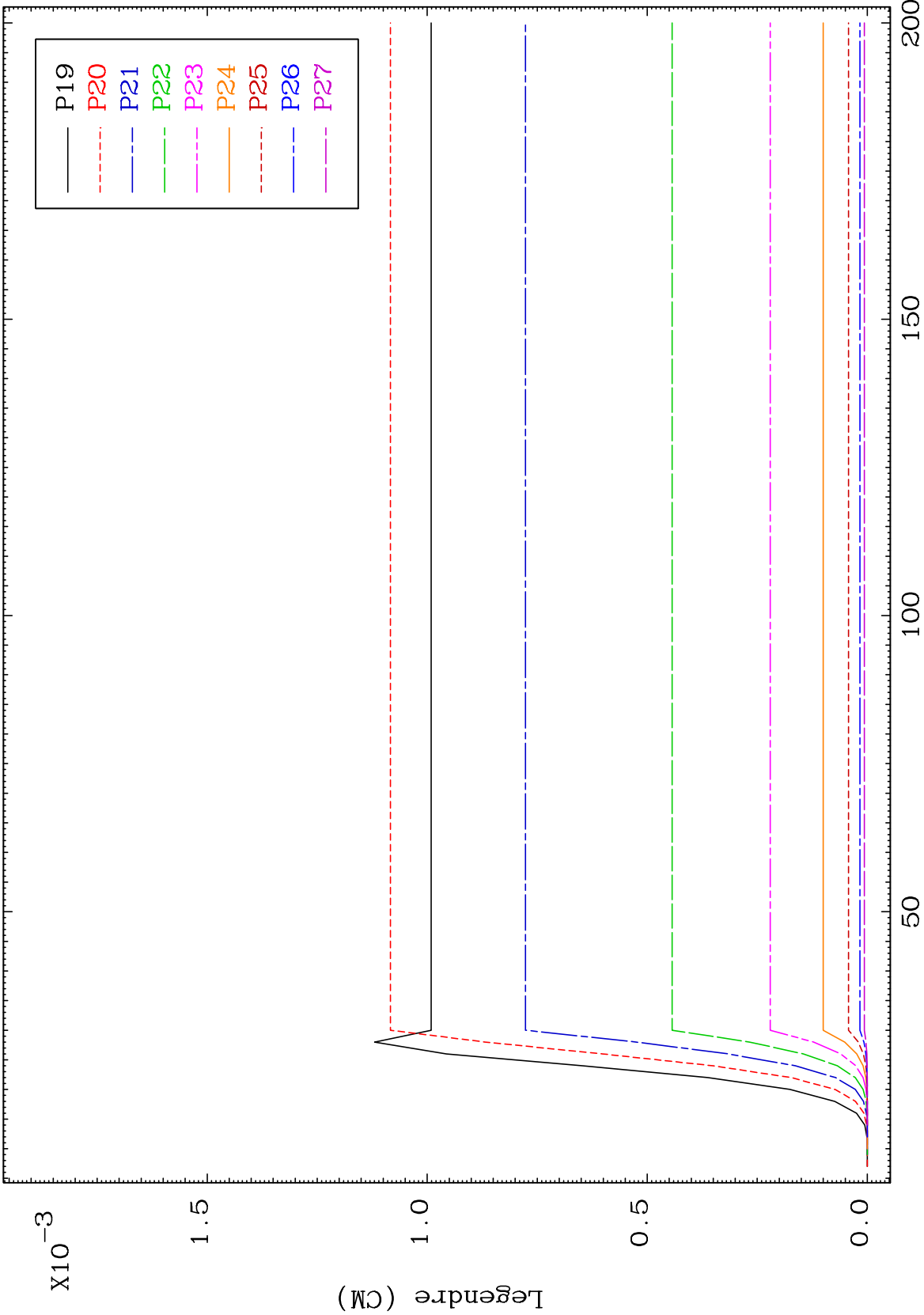
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

56-Ba-133



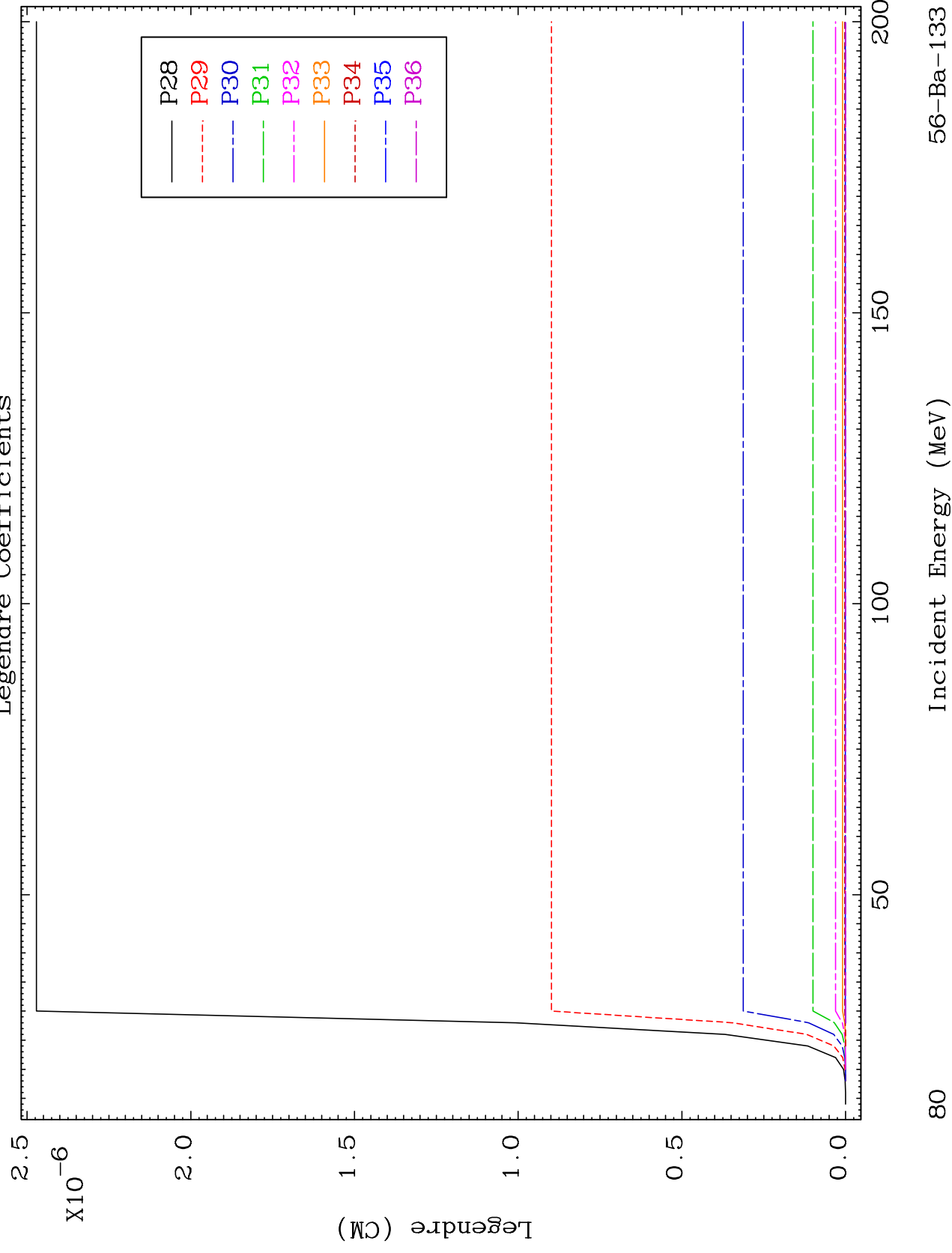
79

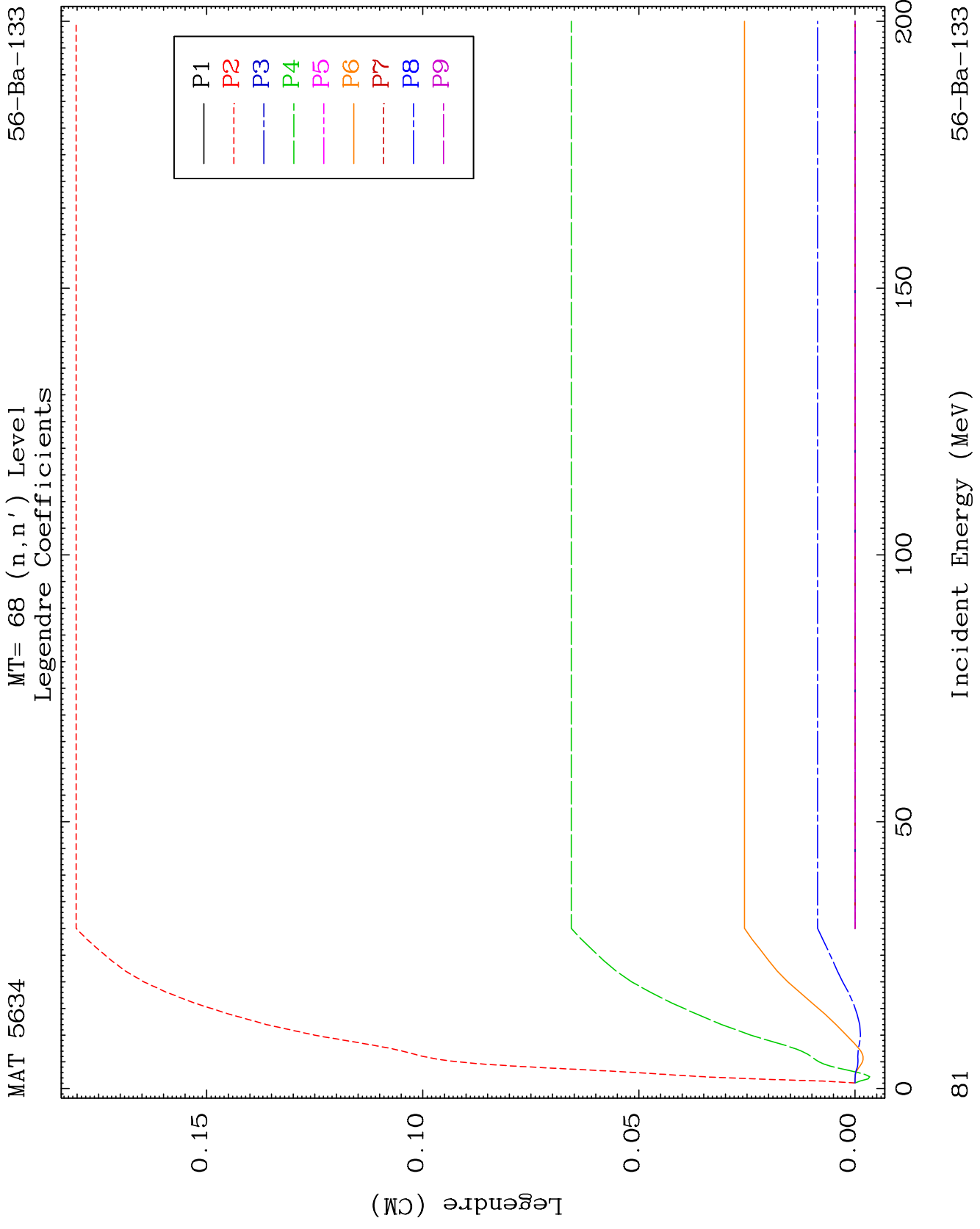
56-Ba-133

MAT 5634

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

56-Ba-133

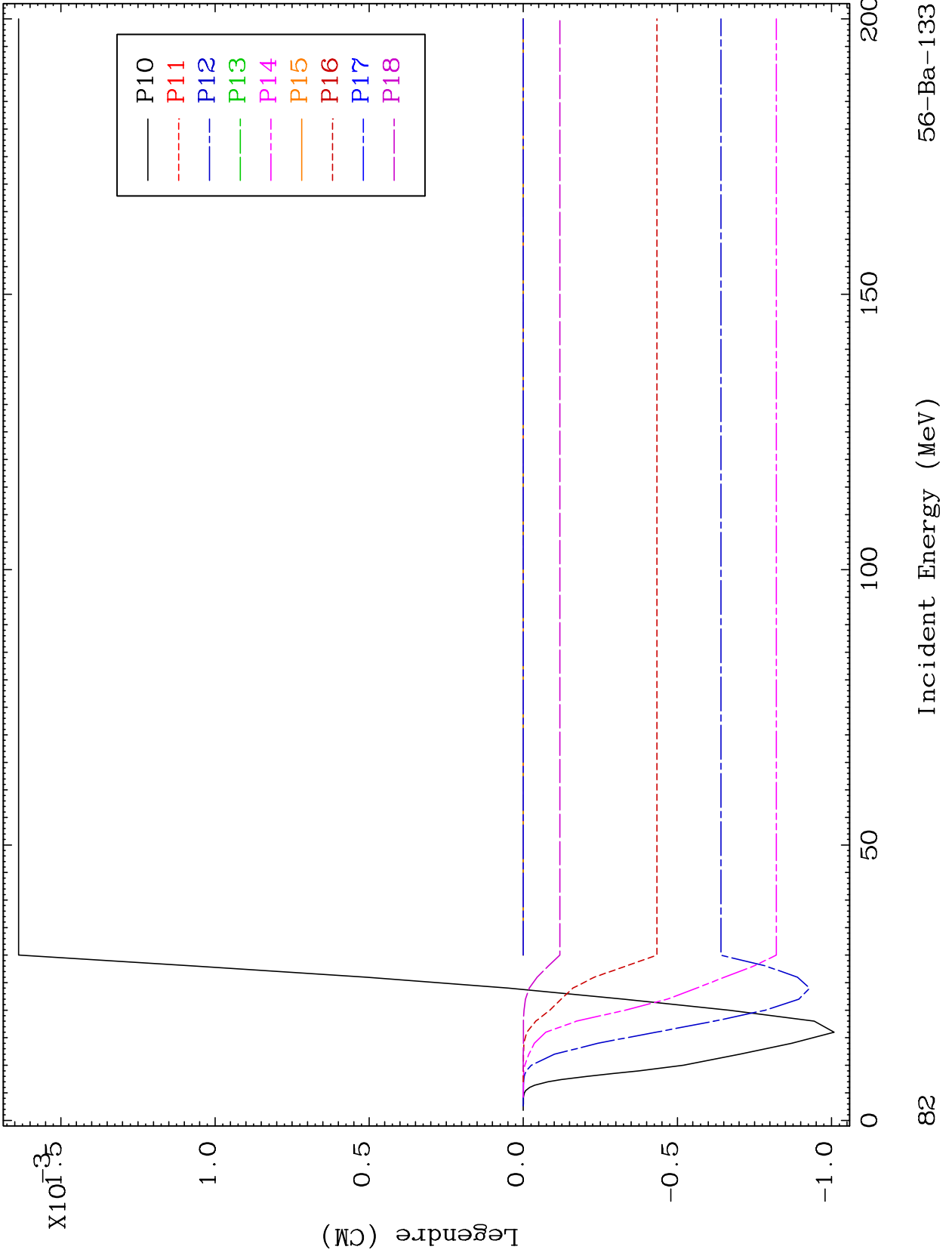




MAT 5634

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

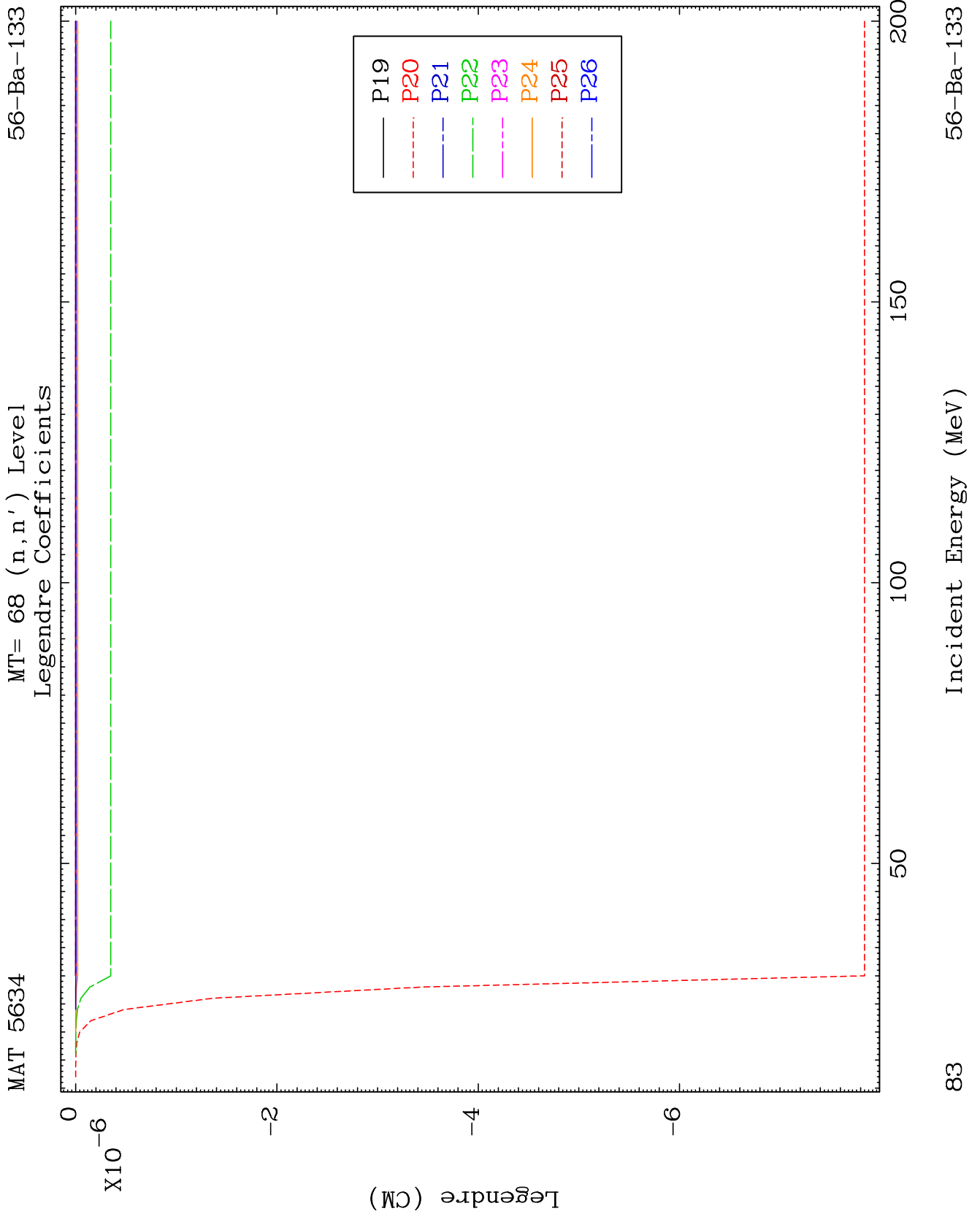
56-Ba-133



82

Incident Energy (MeV)

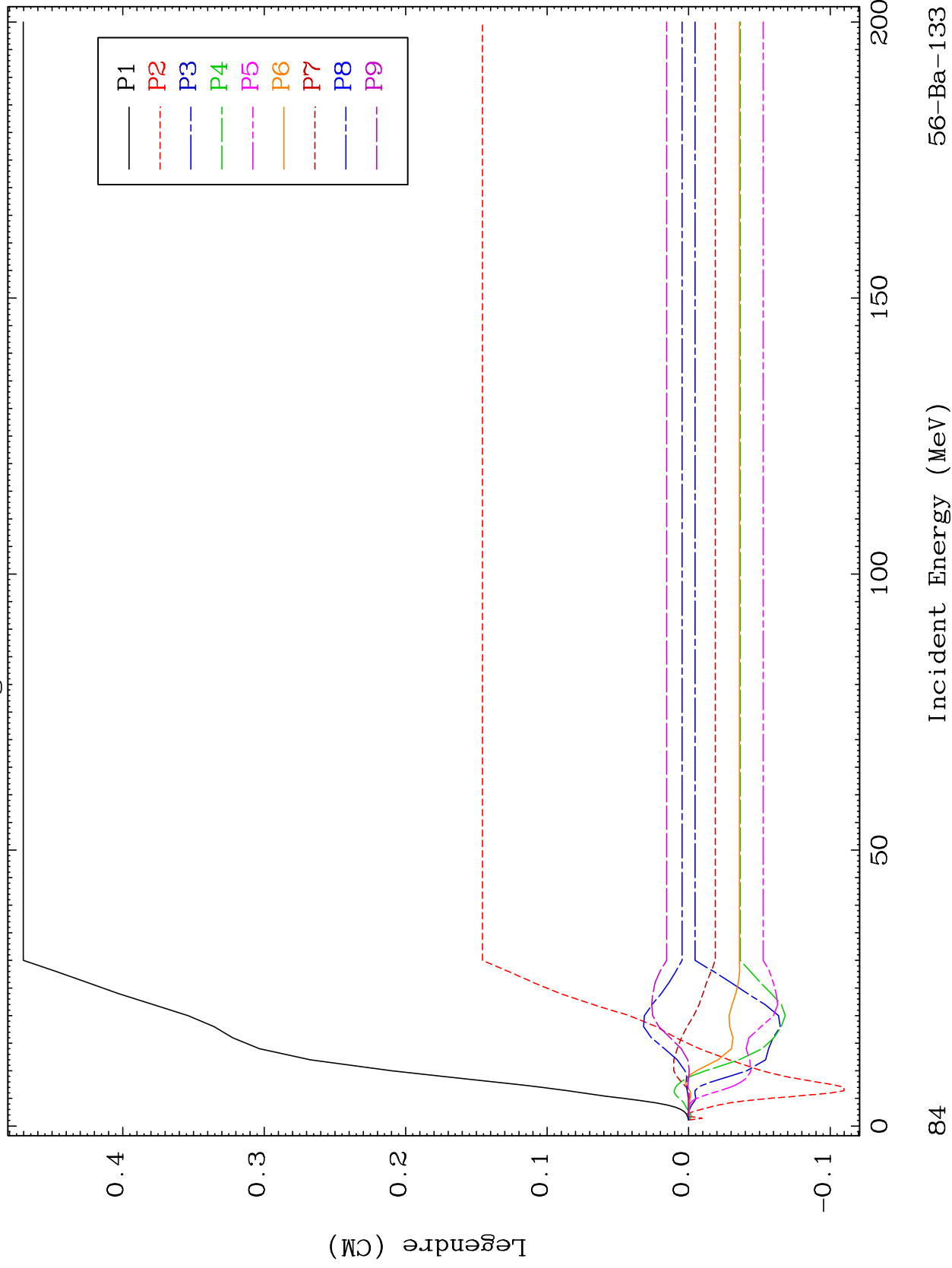
56-Ba-133



MAT 5634

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

56-Ba-133



56-Ba-133

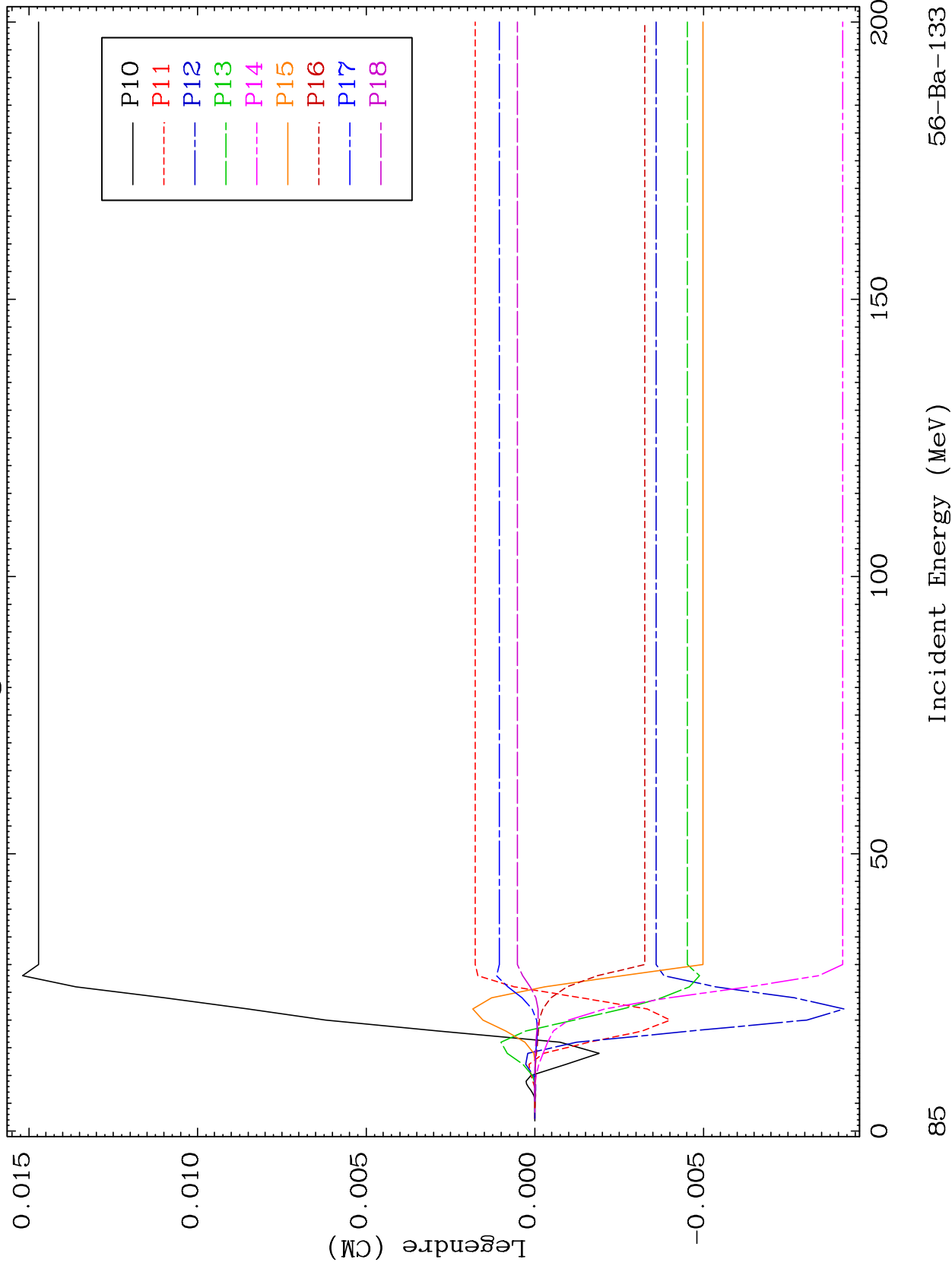
Incident Energy (MeV)

84

MAT 5634

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

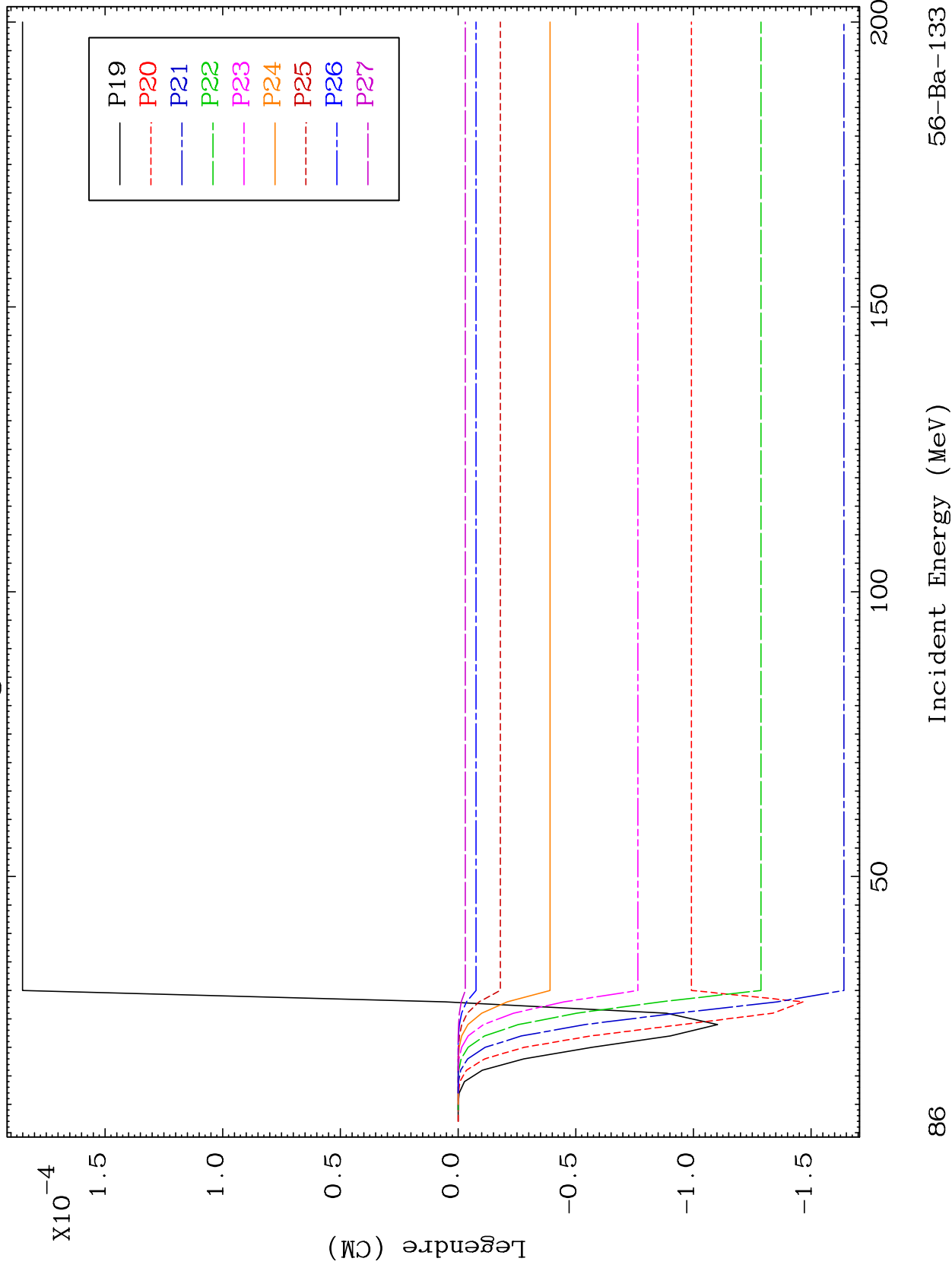
56-Ba-133

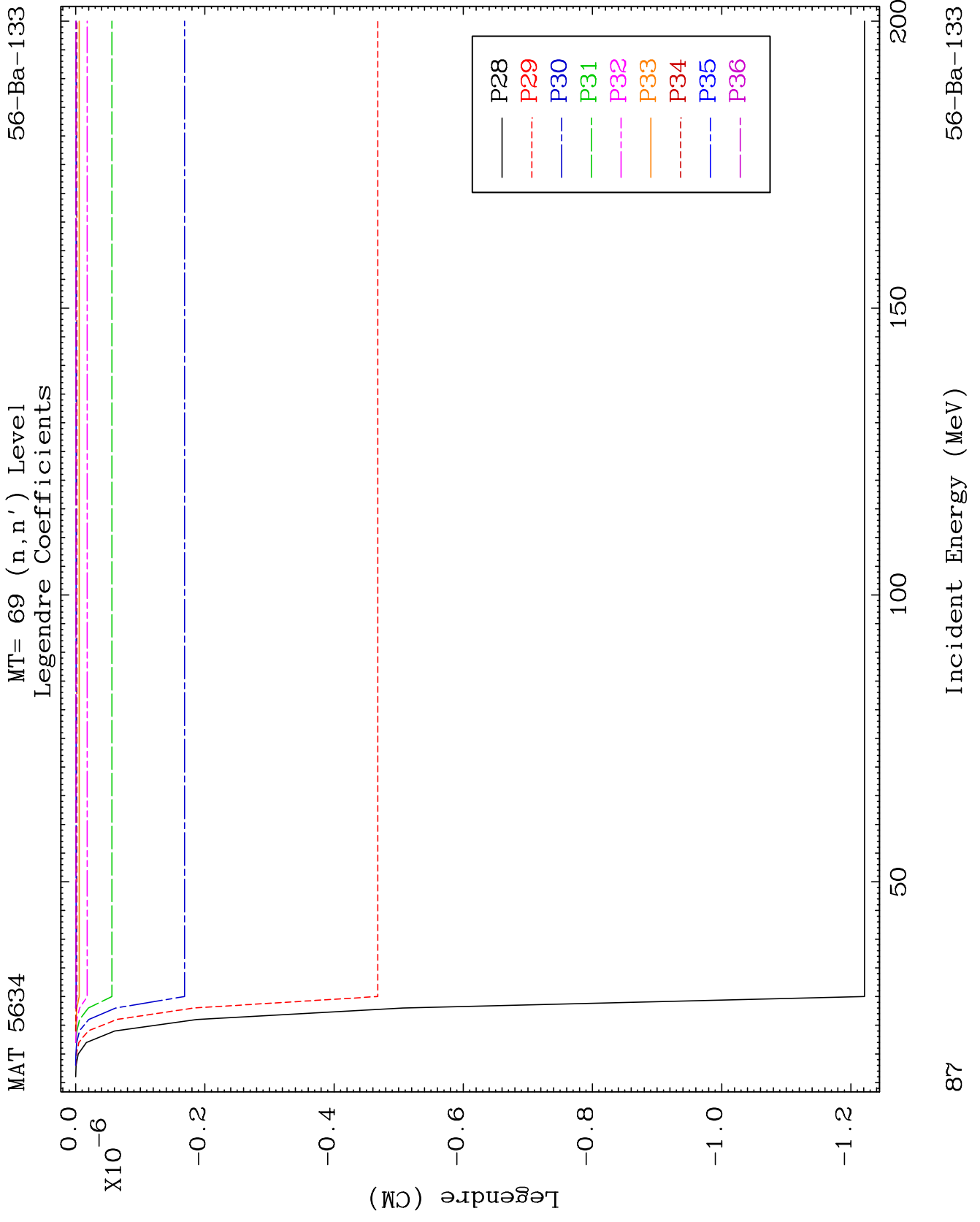


56-Ba-133

Incident Energy (MeV)

85

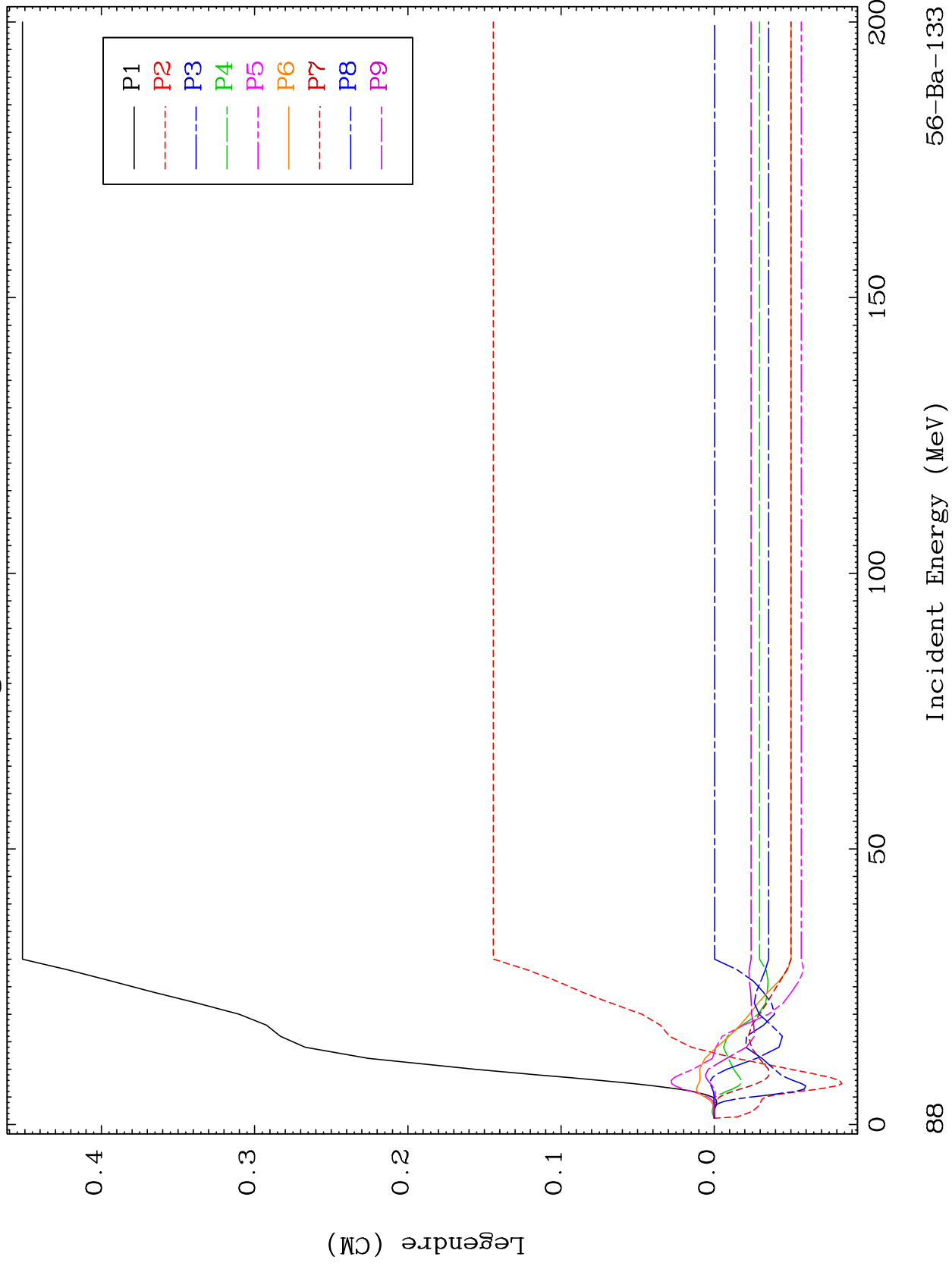




MAT 5634

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

56-Ba-133



56-Ba-133

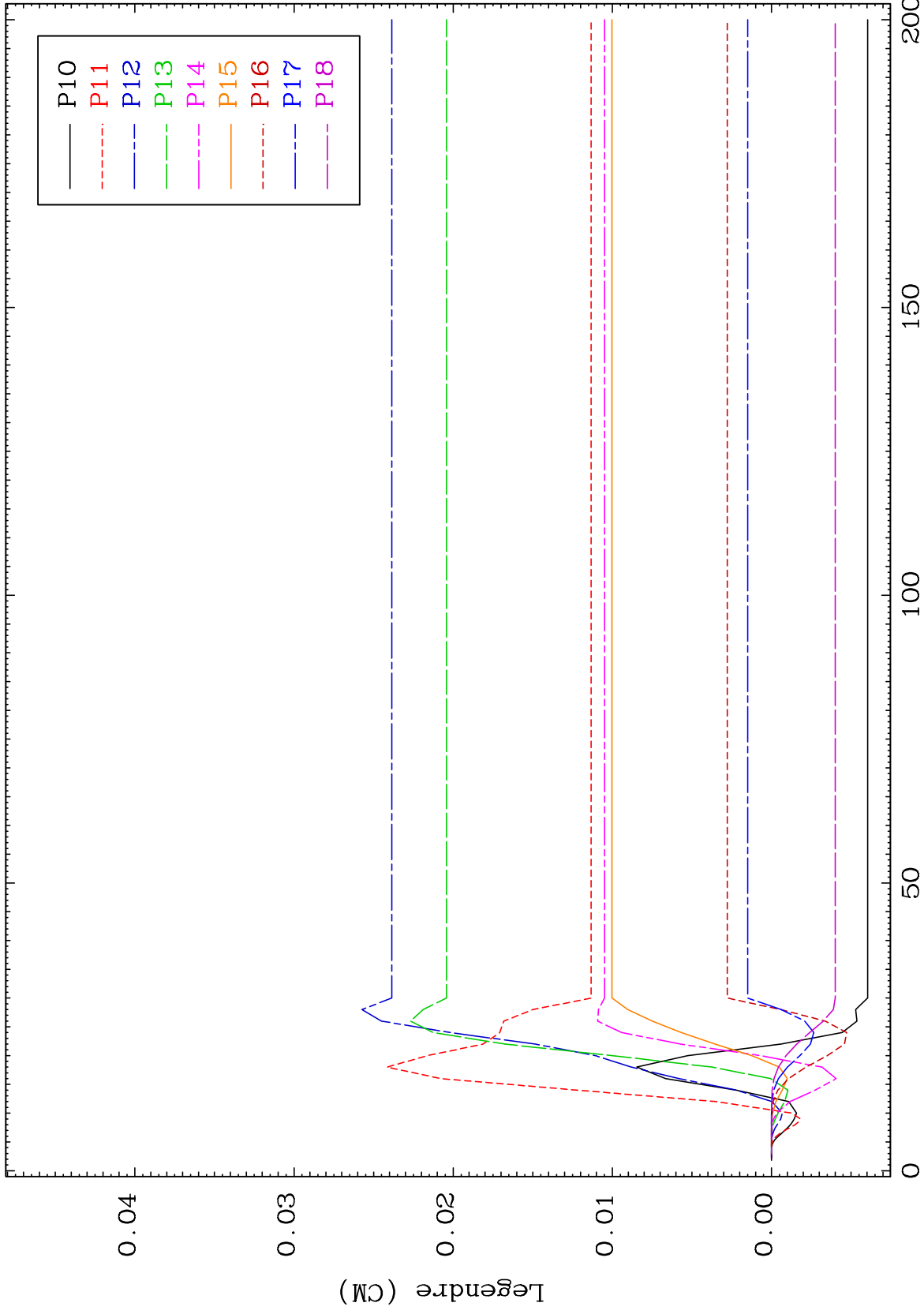
Incident Energy (MeV)

88

MAT 5634

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

56-Ba-133



89

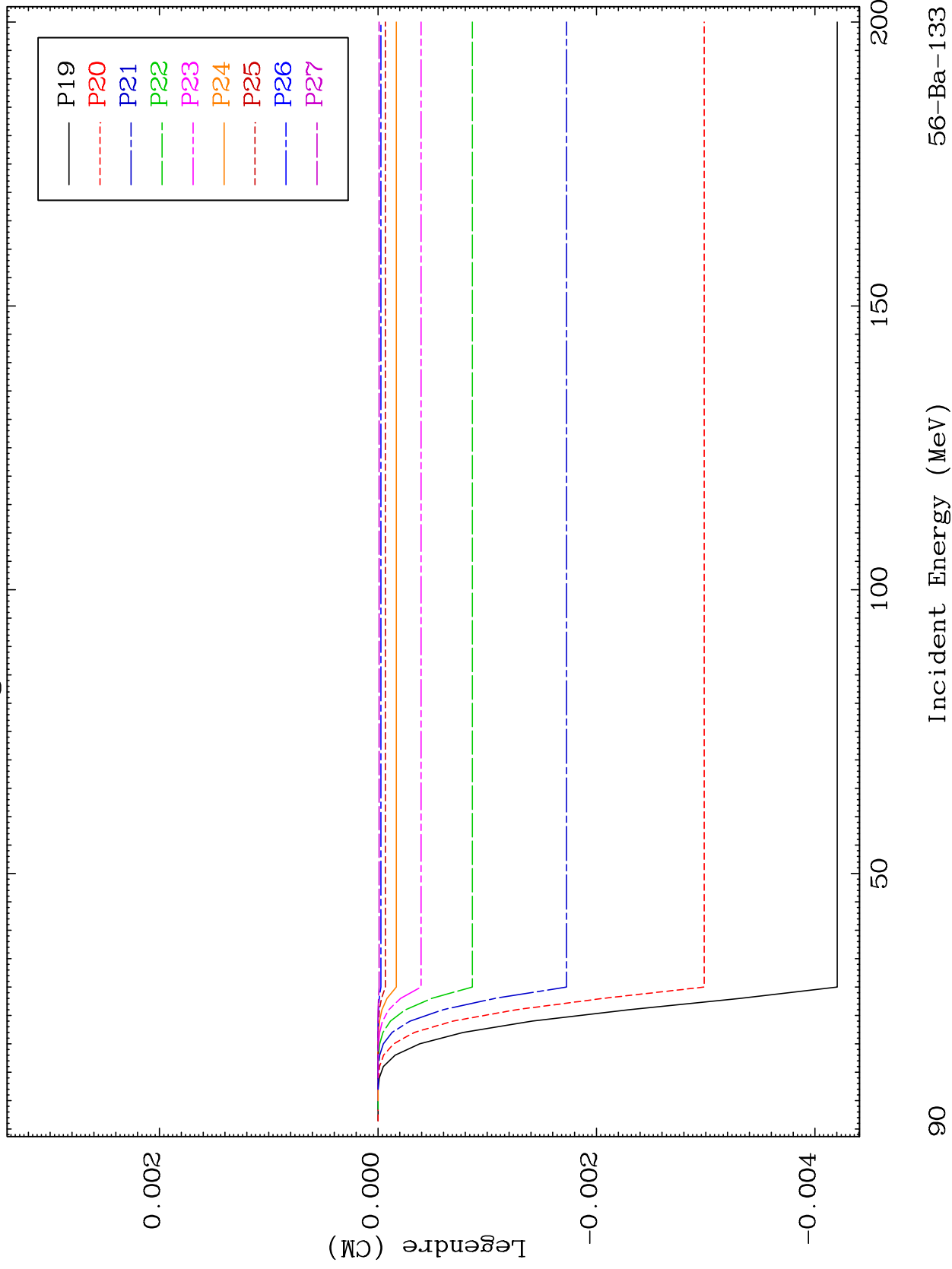
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

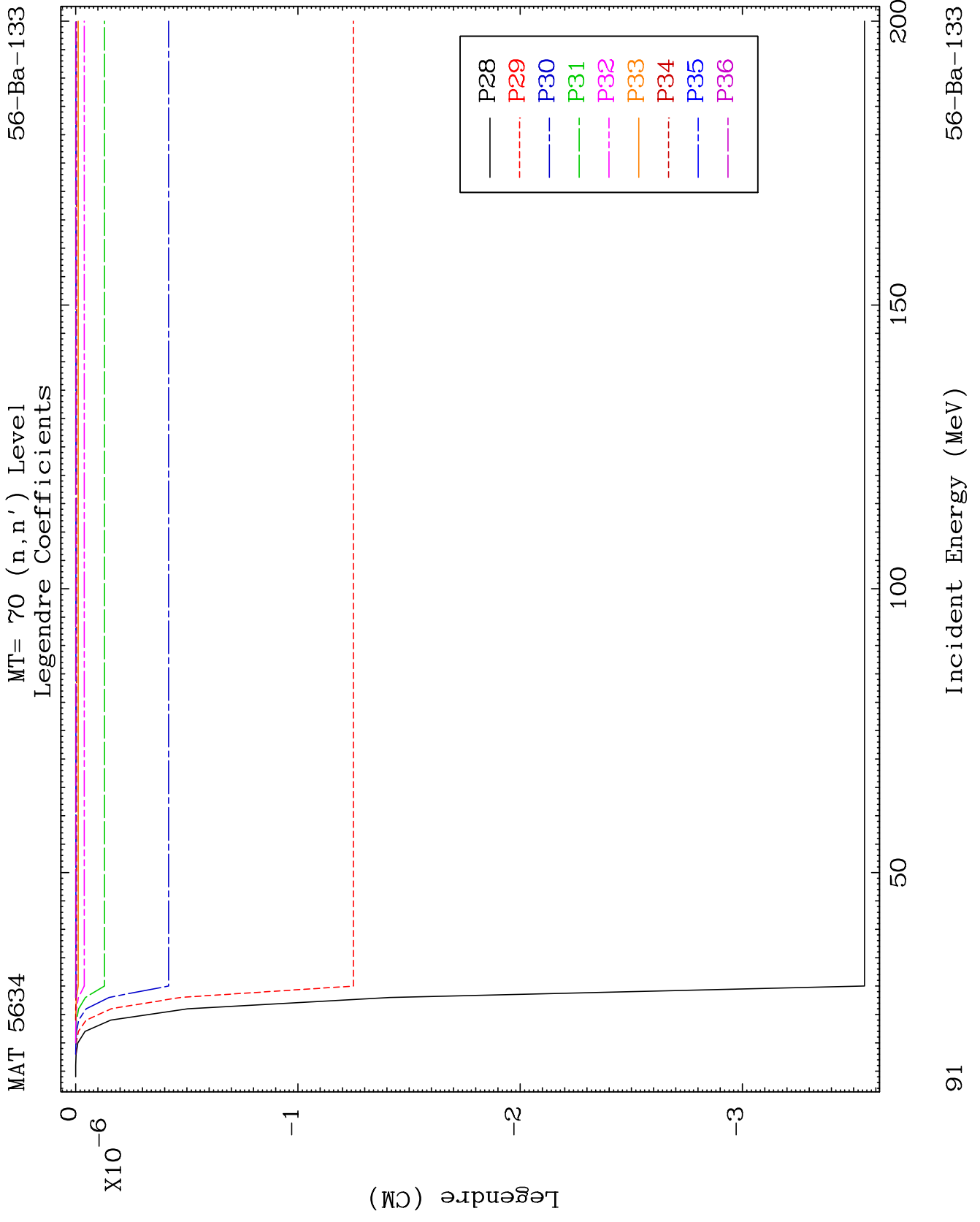
56-Ba-133

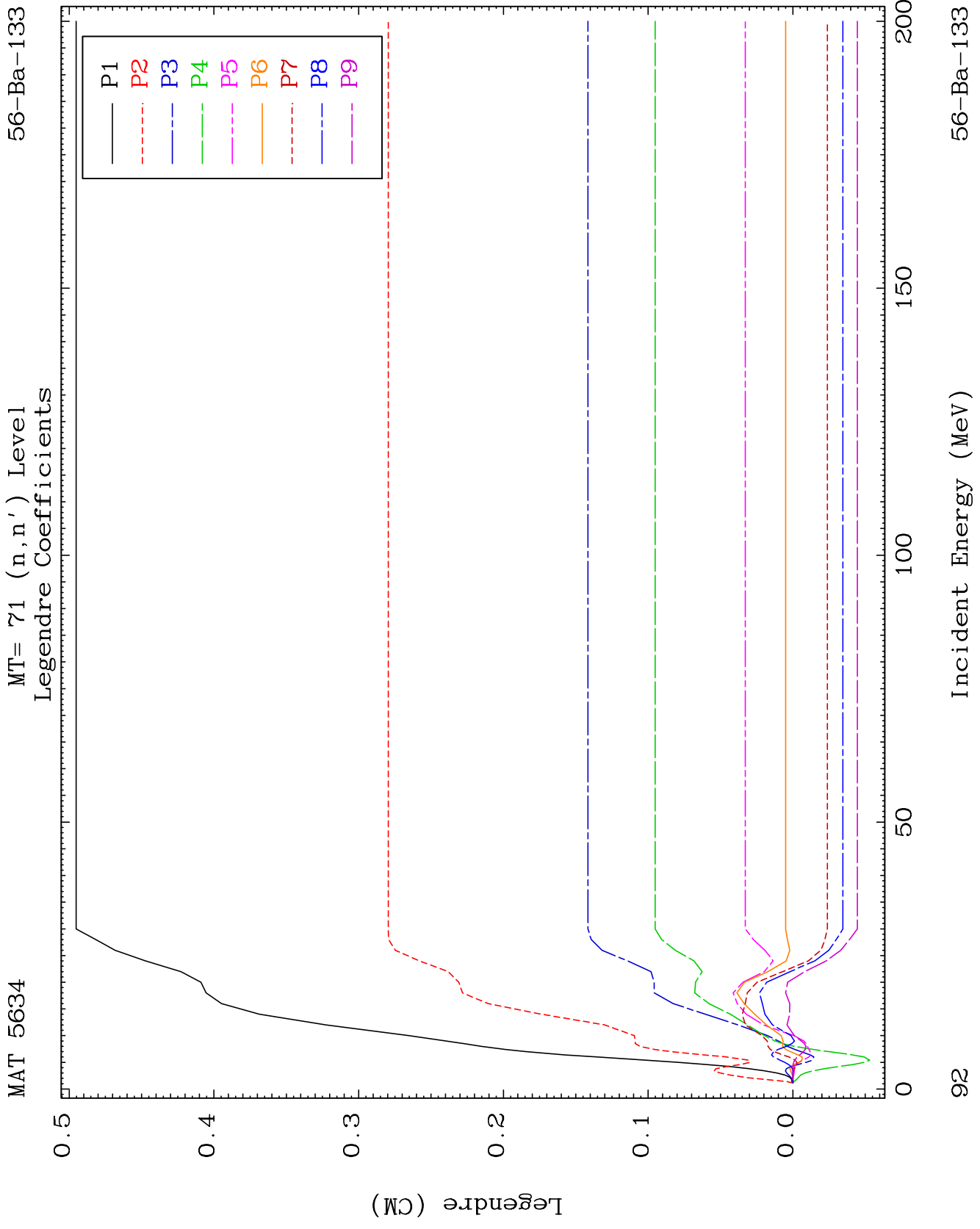


90

Incident Energy (MeV)

56-Ba-133

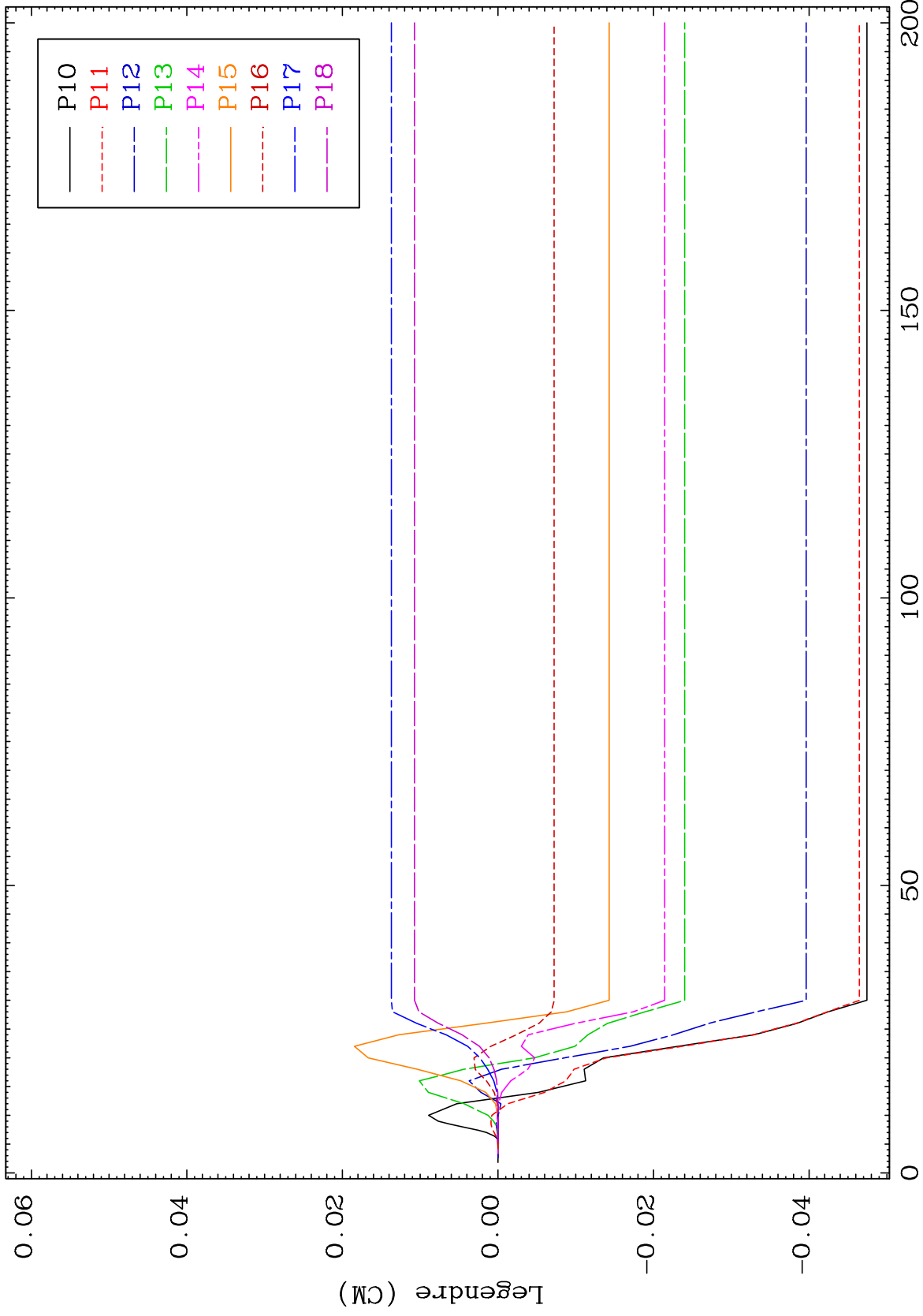




MAT 5634

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

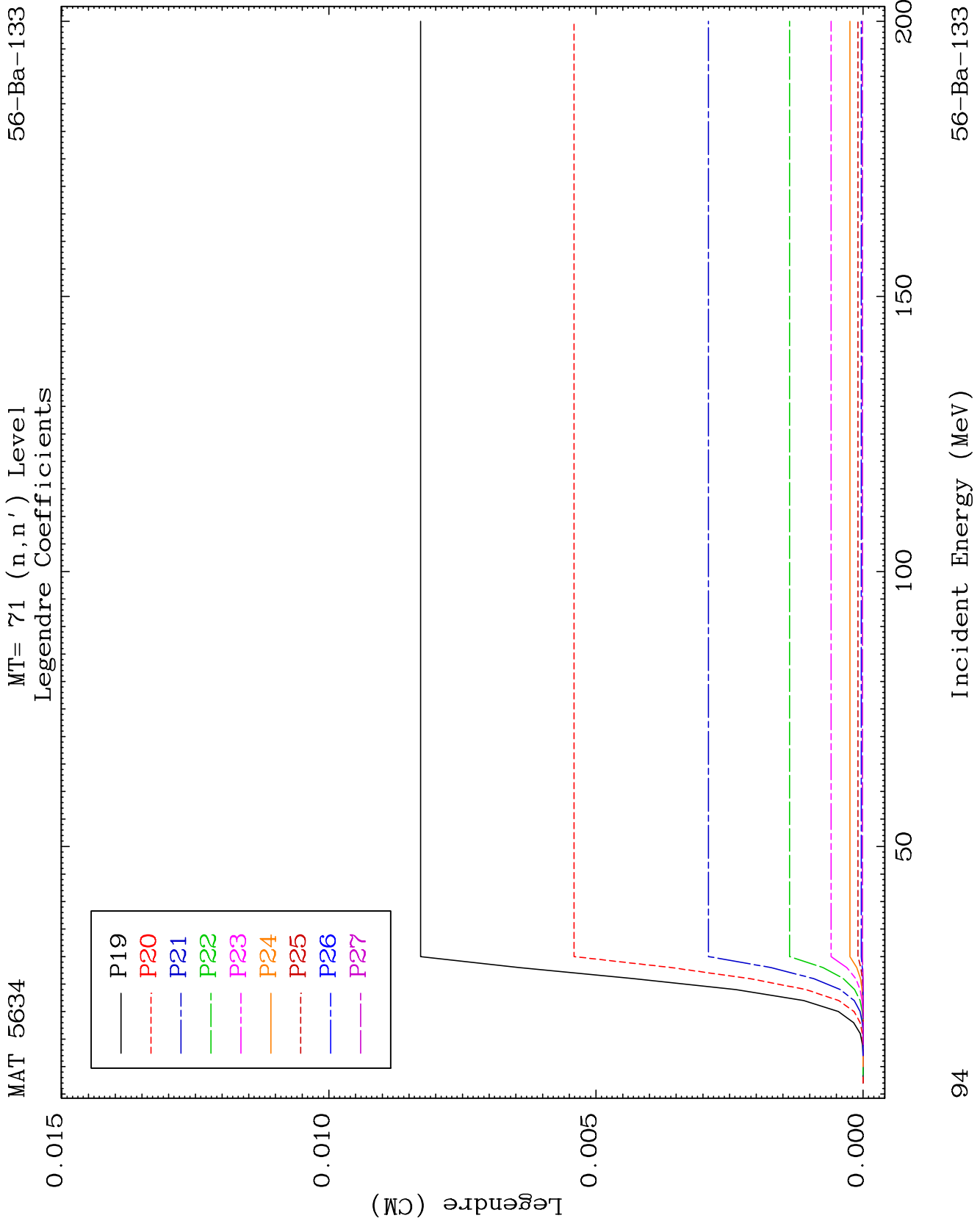
56-Ba-133



93

Incident Energy (MeV)

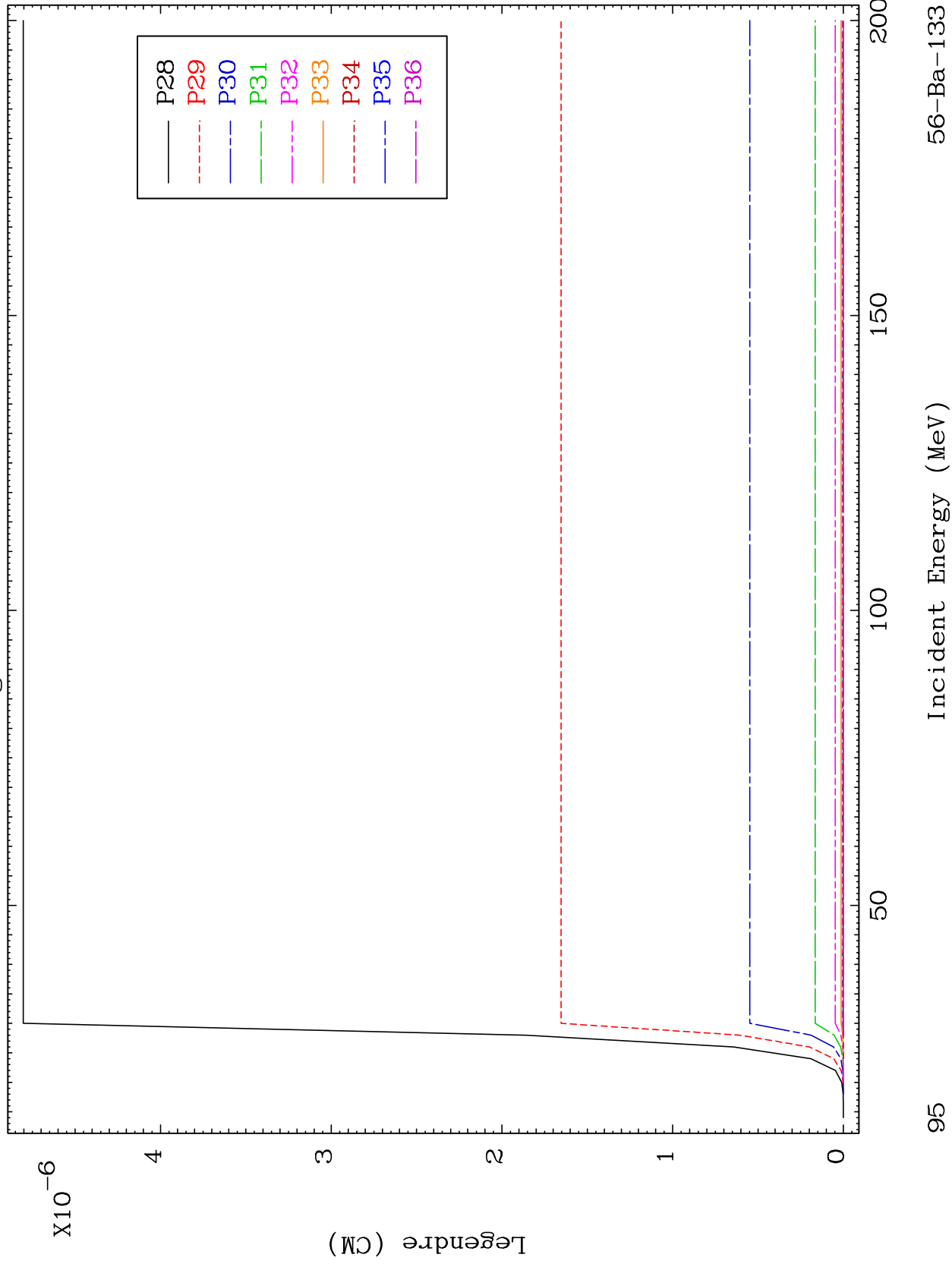
56-Ba-133



MAT 5634

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

56-Ba-133



95

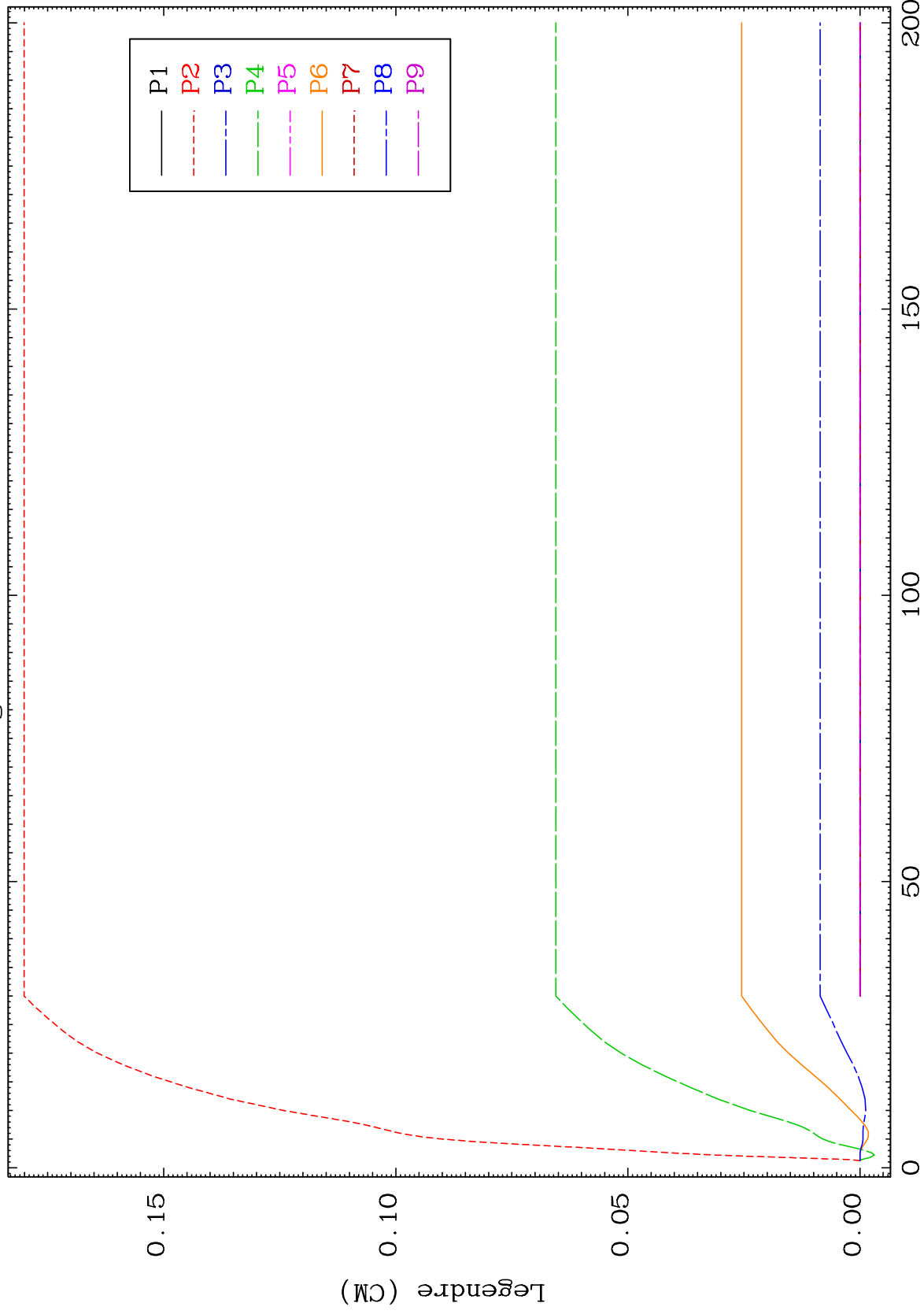
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

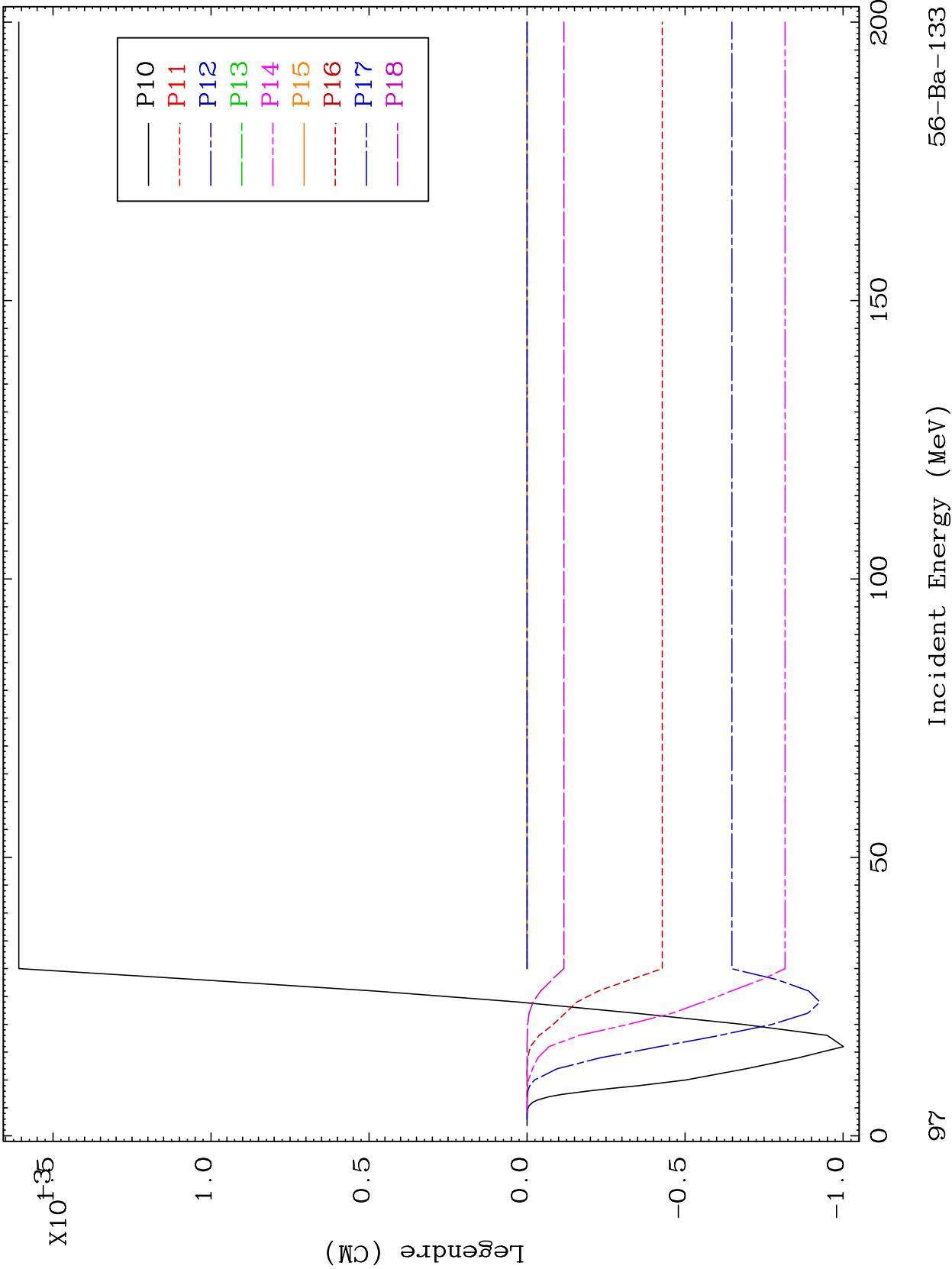
56-Ba-133



96

Incident Energy (MeV)

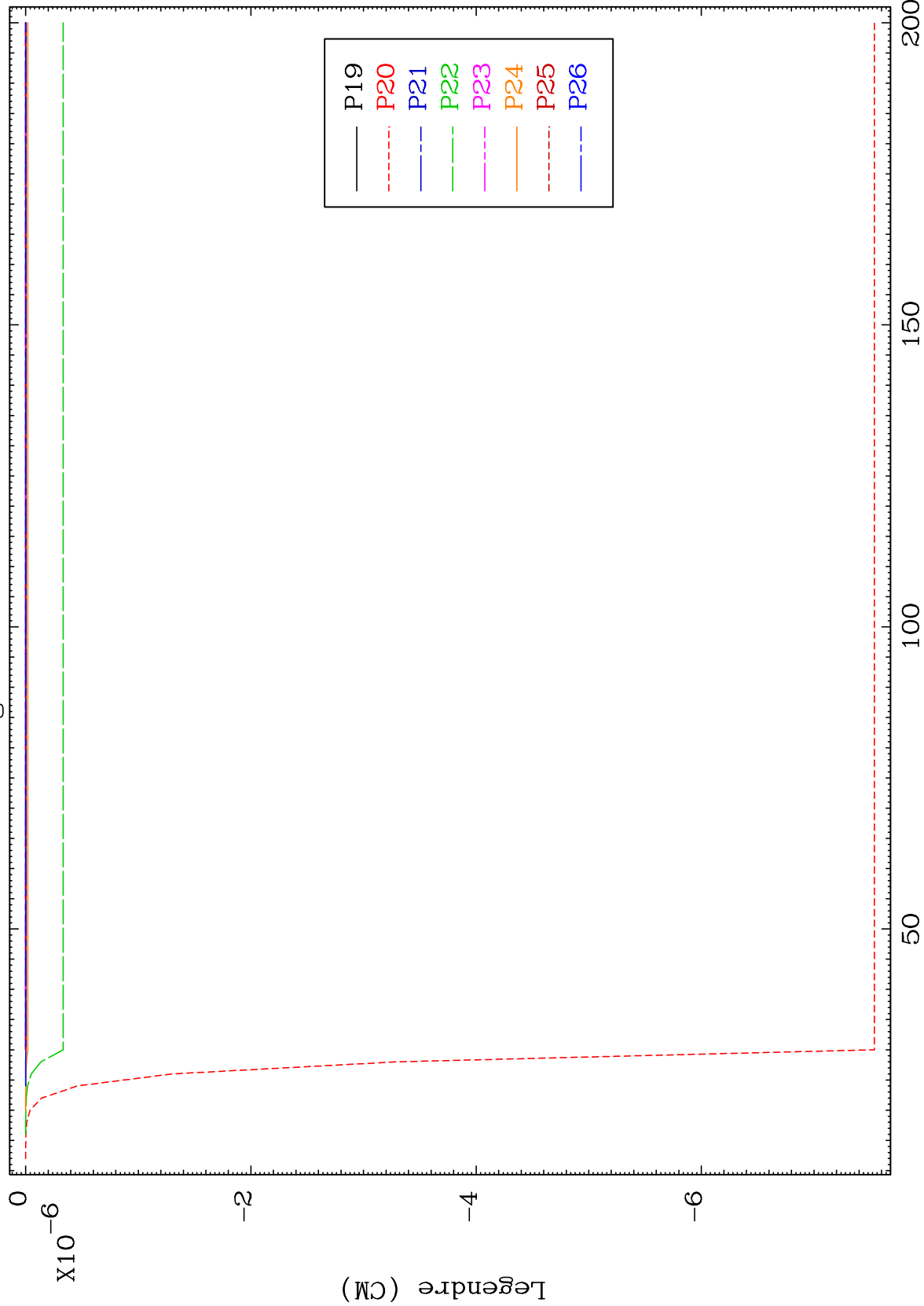
56-Ba-133



MAT 5634

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

56-Ba-133



56-Ba-133

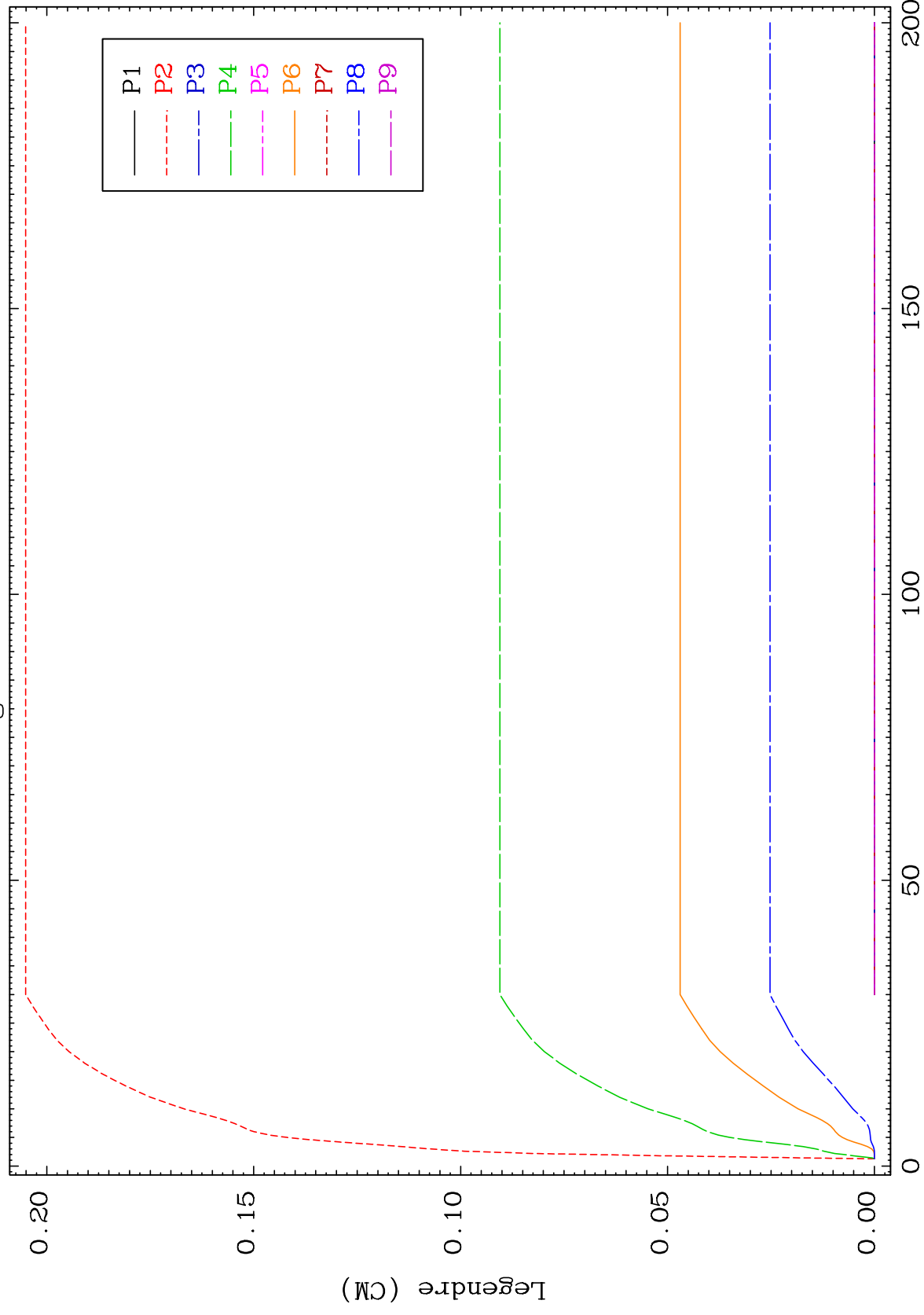
Incident Energy (MeV)

98

MAT 5634

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

56-Ba-133



99

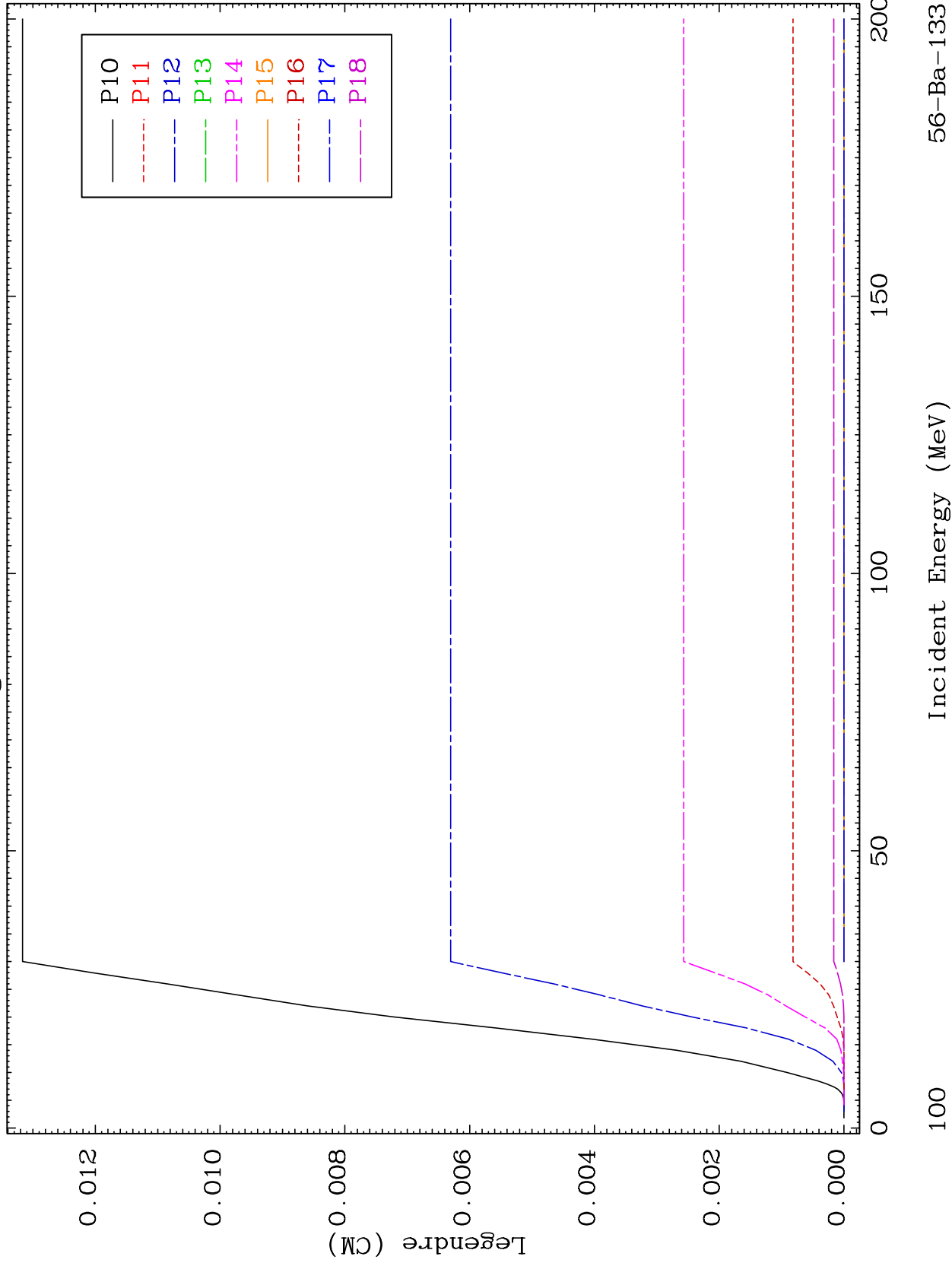
Incident Energy (MeV)

56-Ba-133

MAT 5634

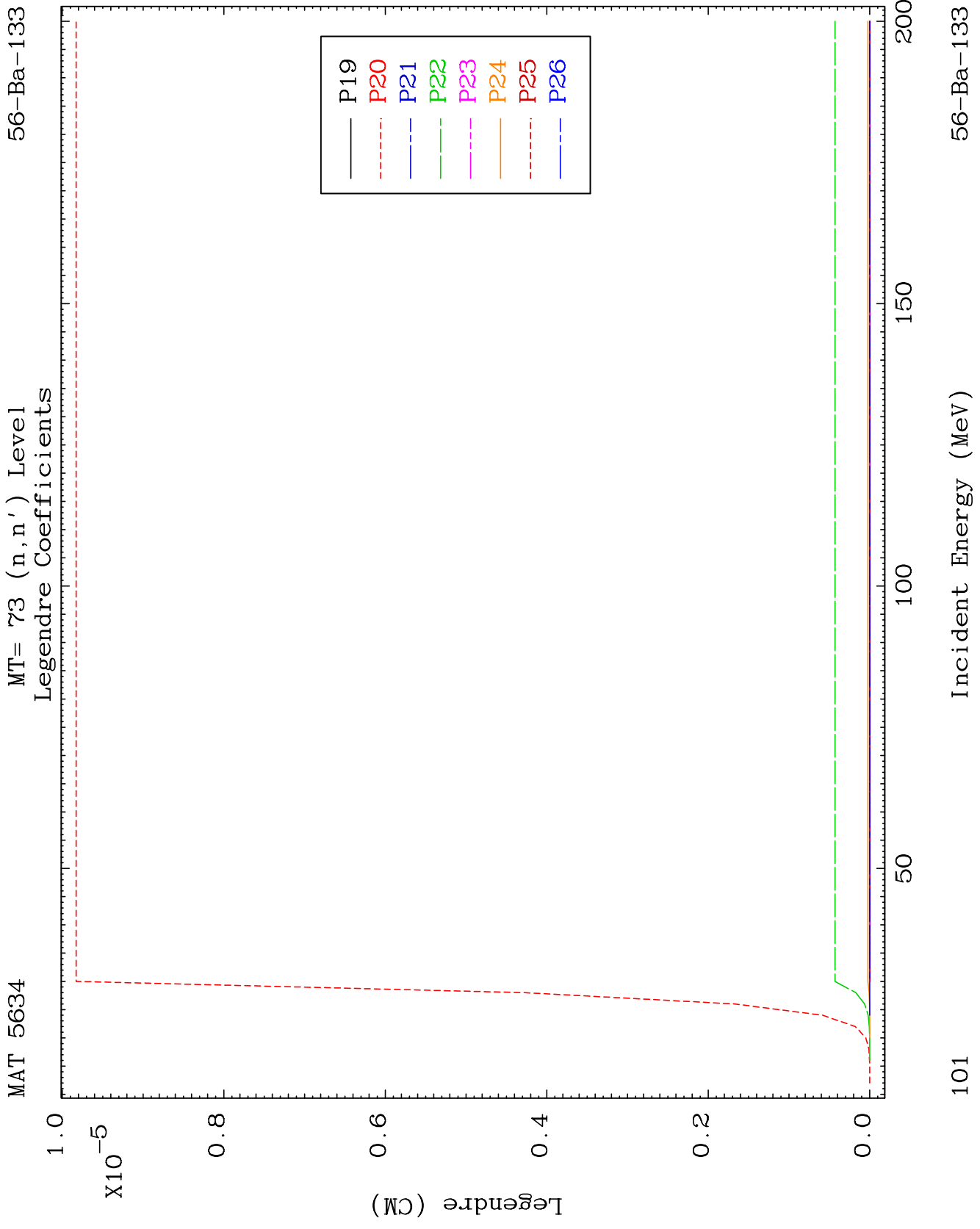
MT= 73 (n,n') Level
Legendre Coefficients

56-Ba-133



56-Ba-133

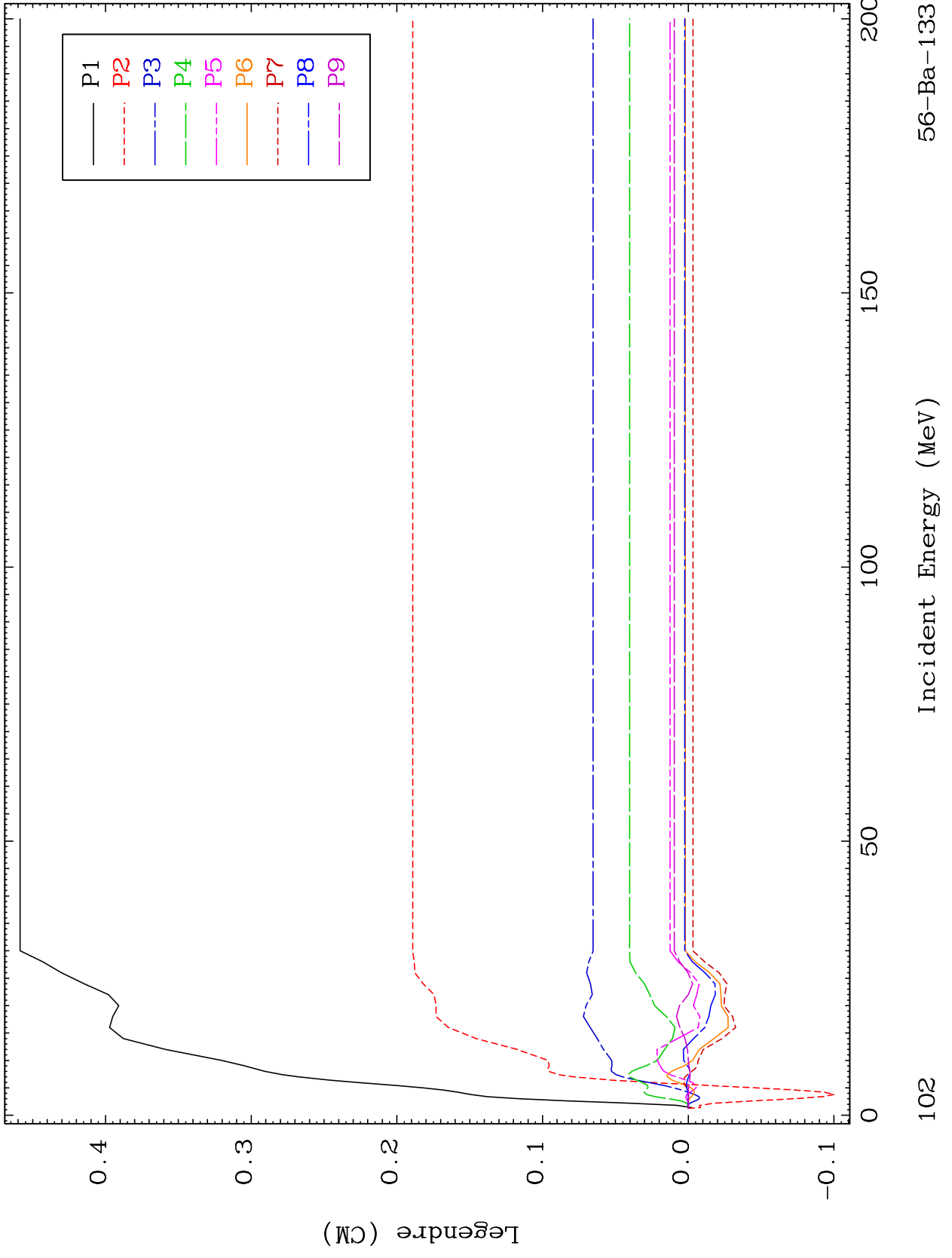
Incident Energy (MeV)



MAT 5634

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

56-Ba-133



56-Ba-133

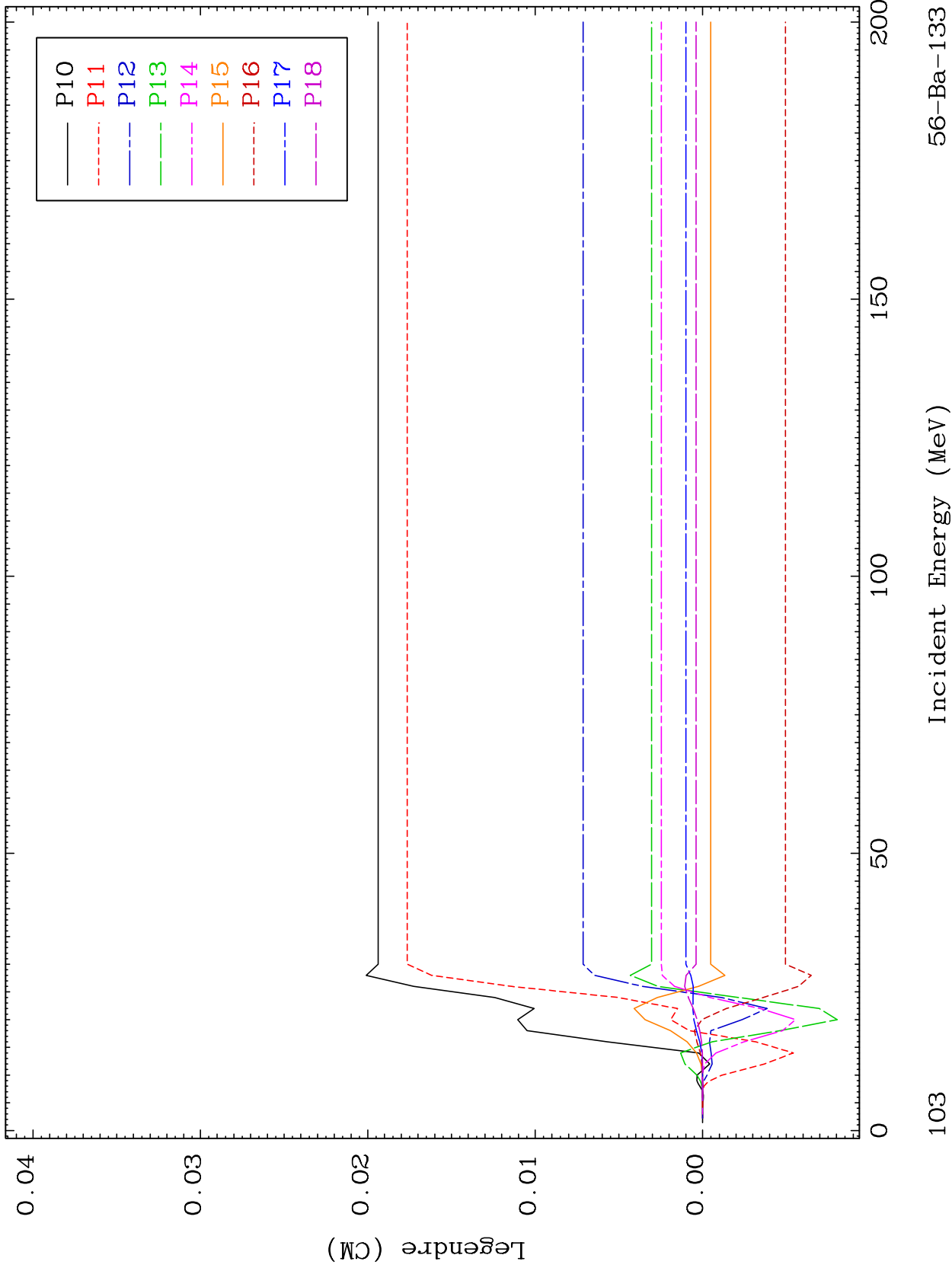
Incident Energy (MeV)

102

MAT 5634

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

56-Ba-133

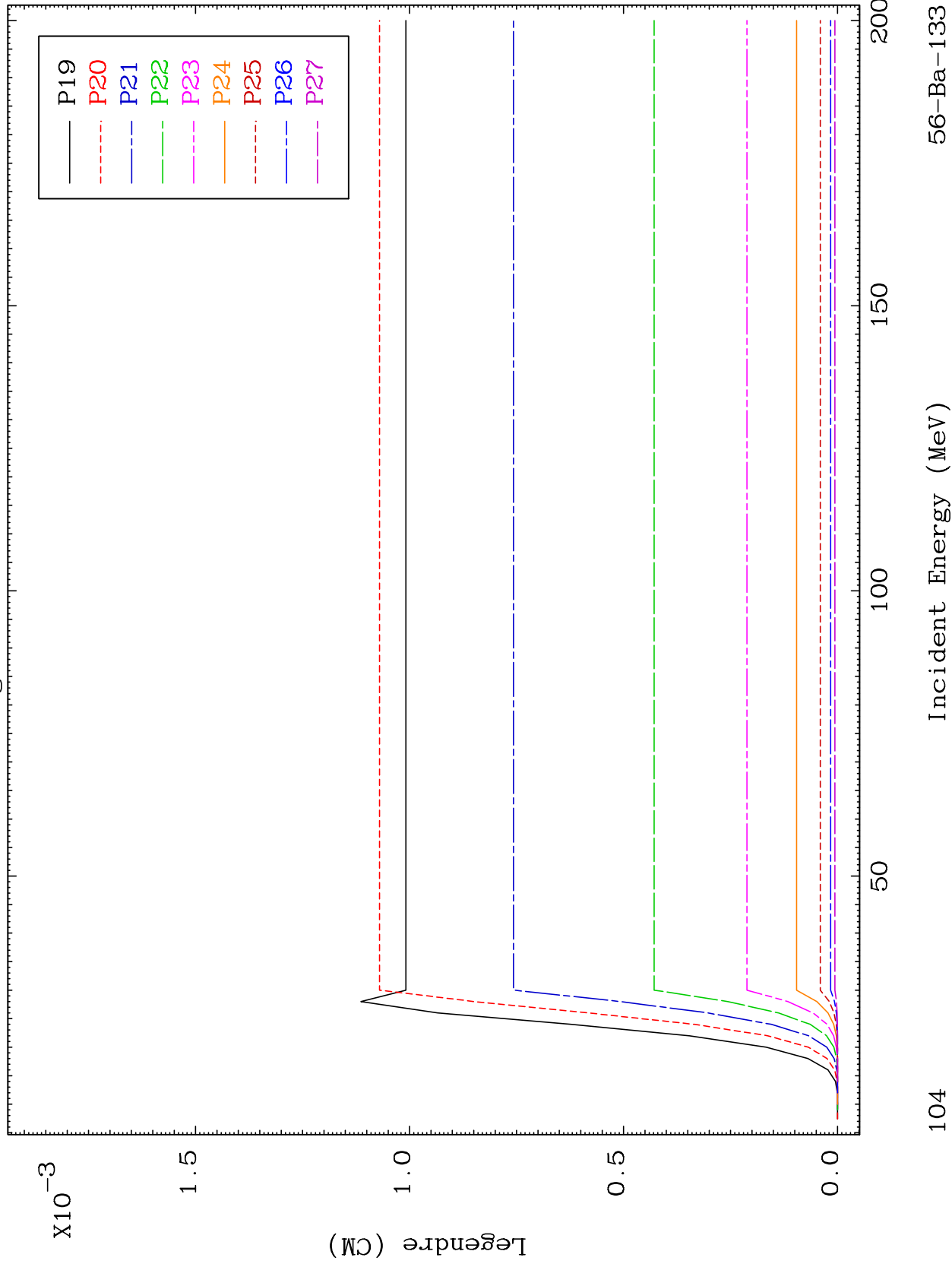


103

MAT 5634

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

56-Ba-133



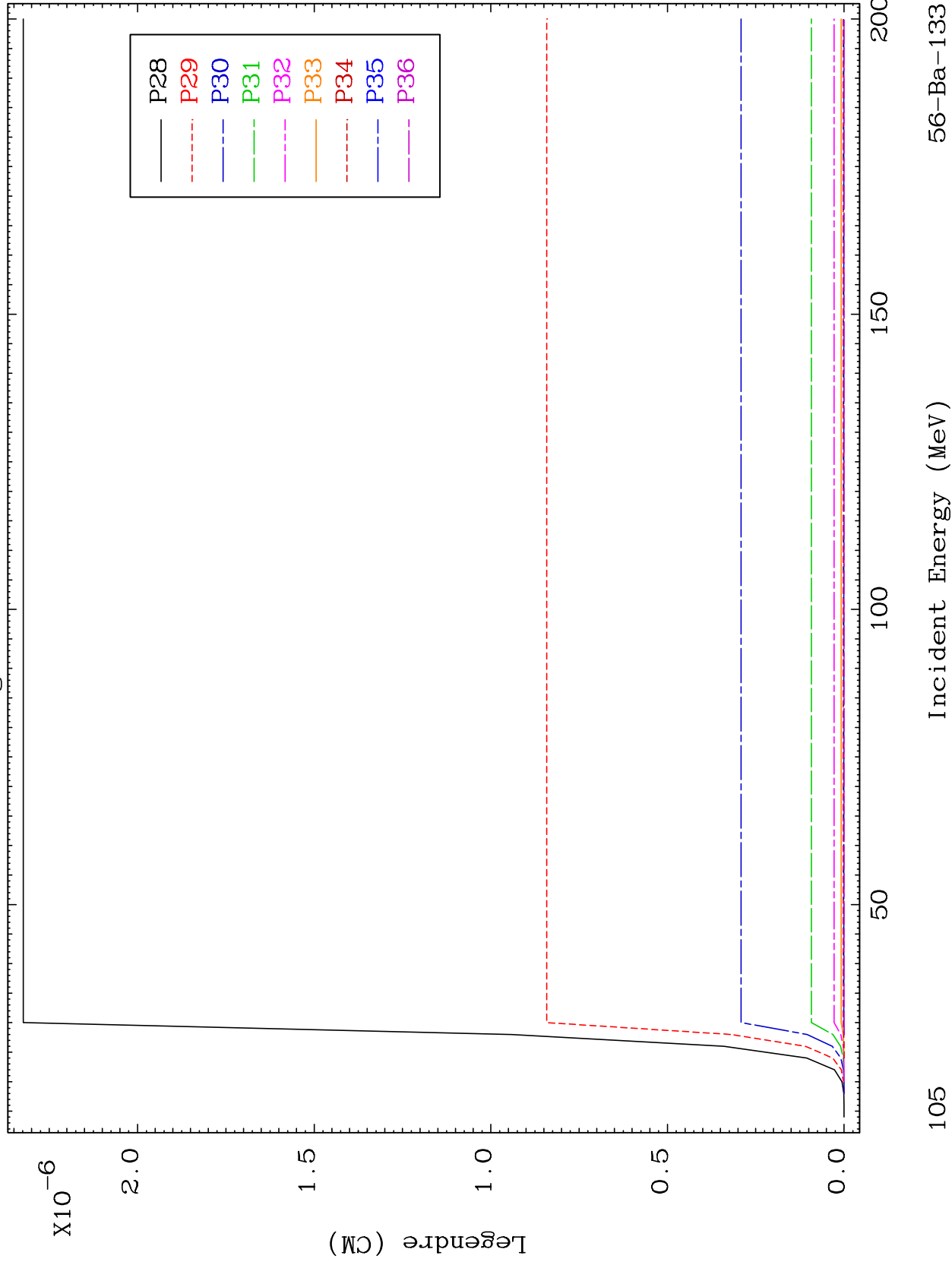
104

56-Ba-133

MAT 5634

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

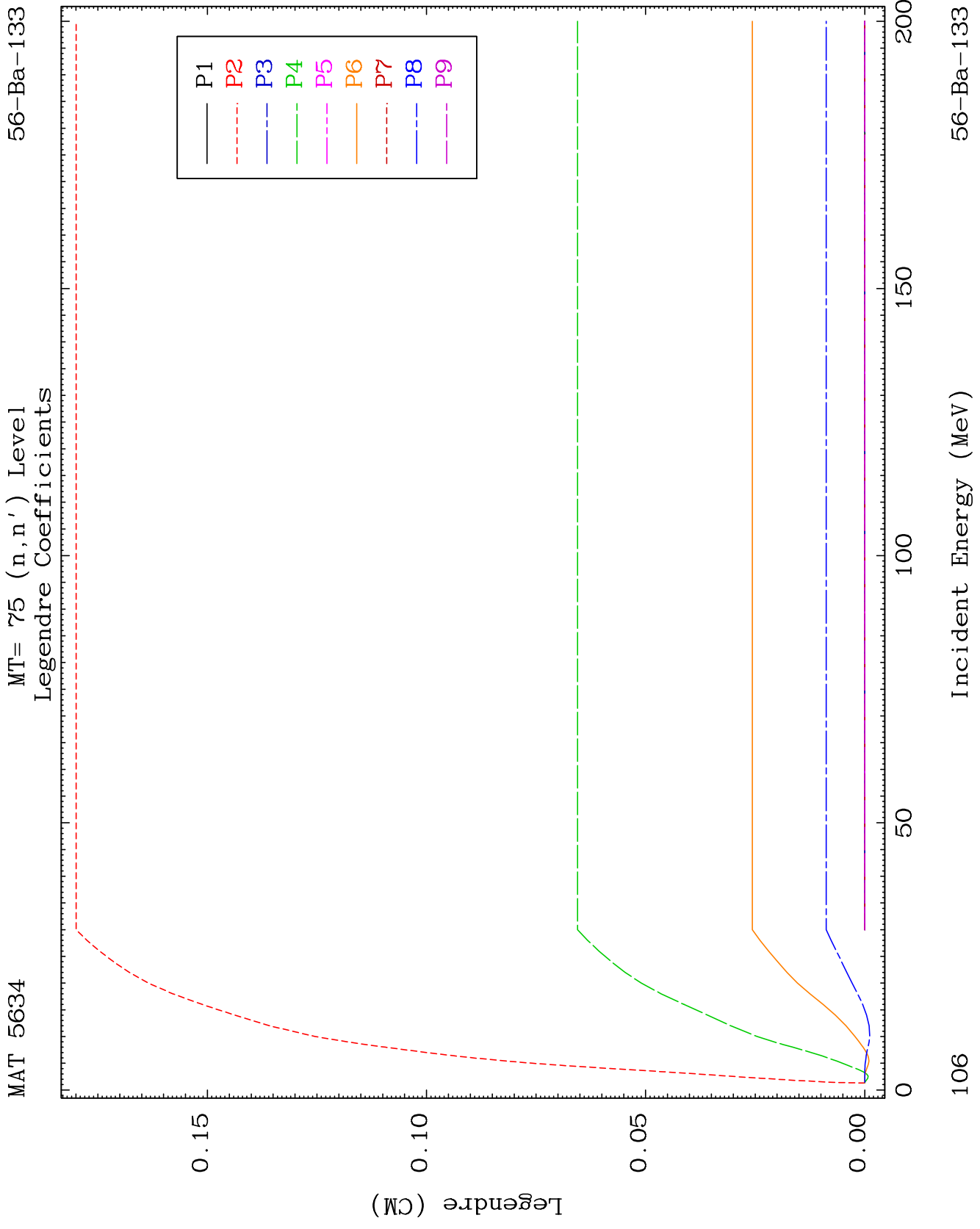
56-Ba-133



105

Incident Energy (MeV)

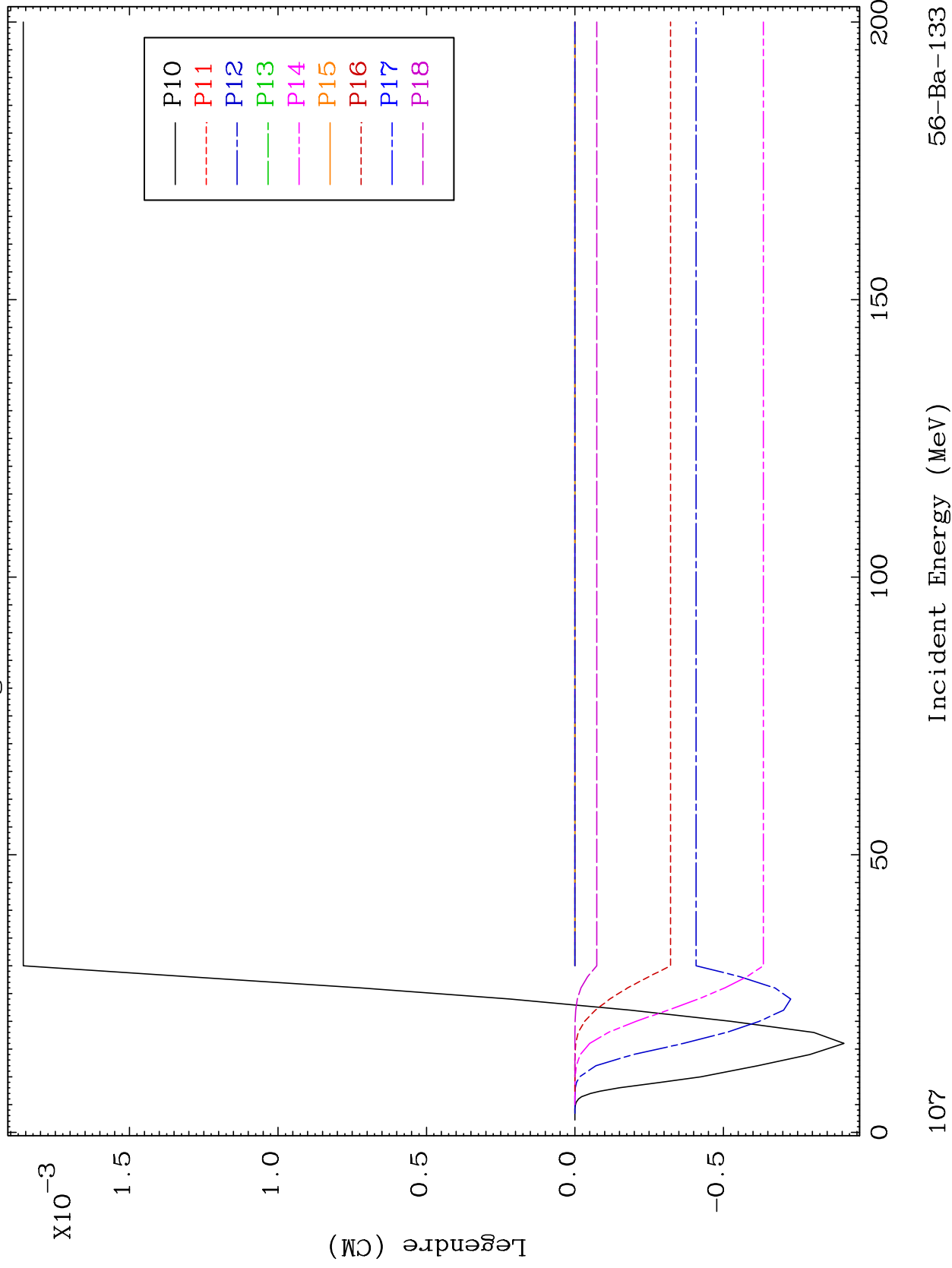
56-Ba-133



MAT 5634

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

56-Ba-133



107

Incident Energy (MeV)

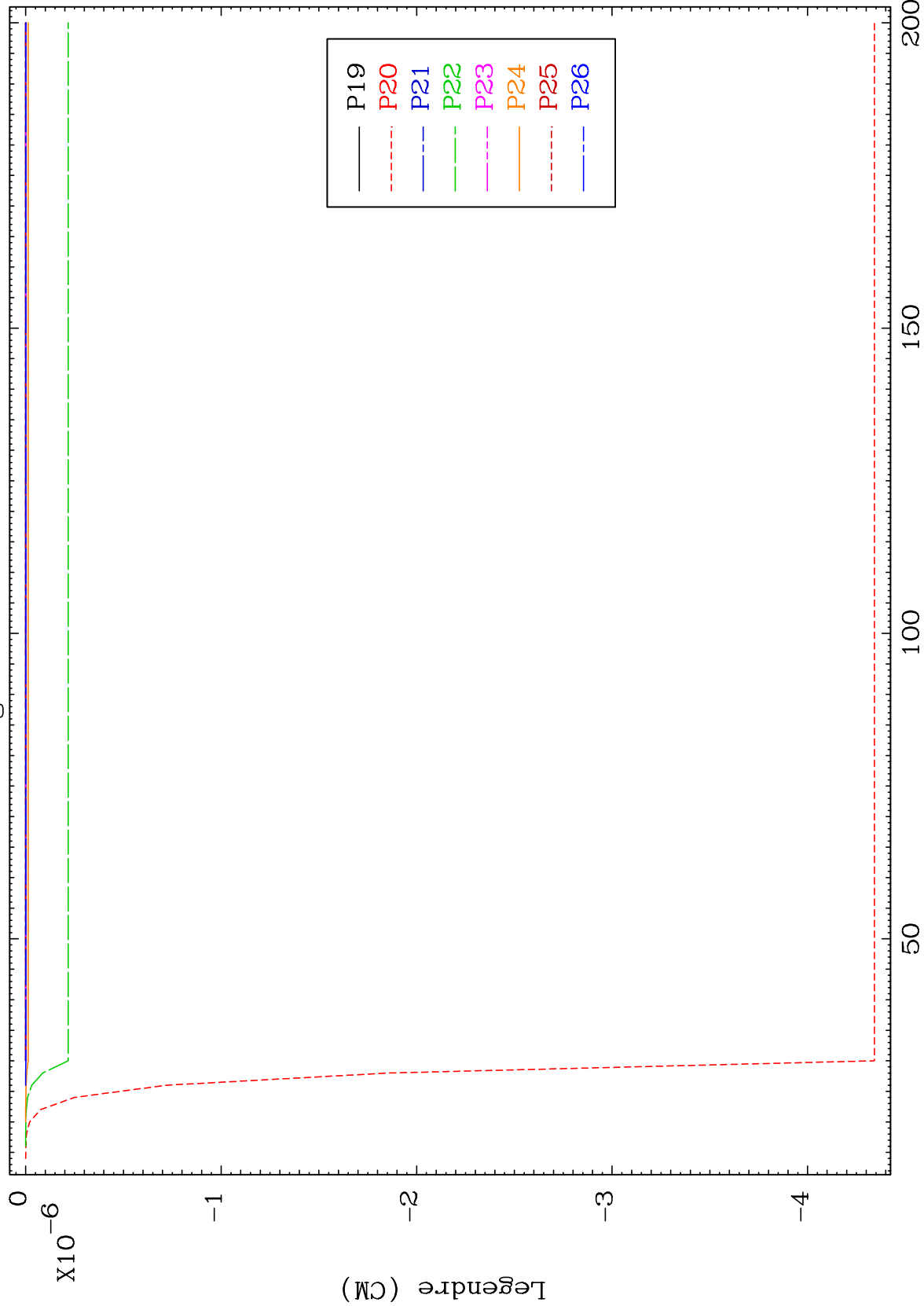
56-Ba-133

MAT 5634

MT= 75 (n,n') Level

56-Ba-133

Legendre Coefficients



56-Ba-133

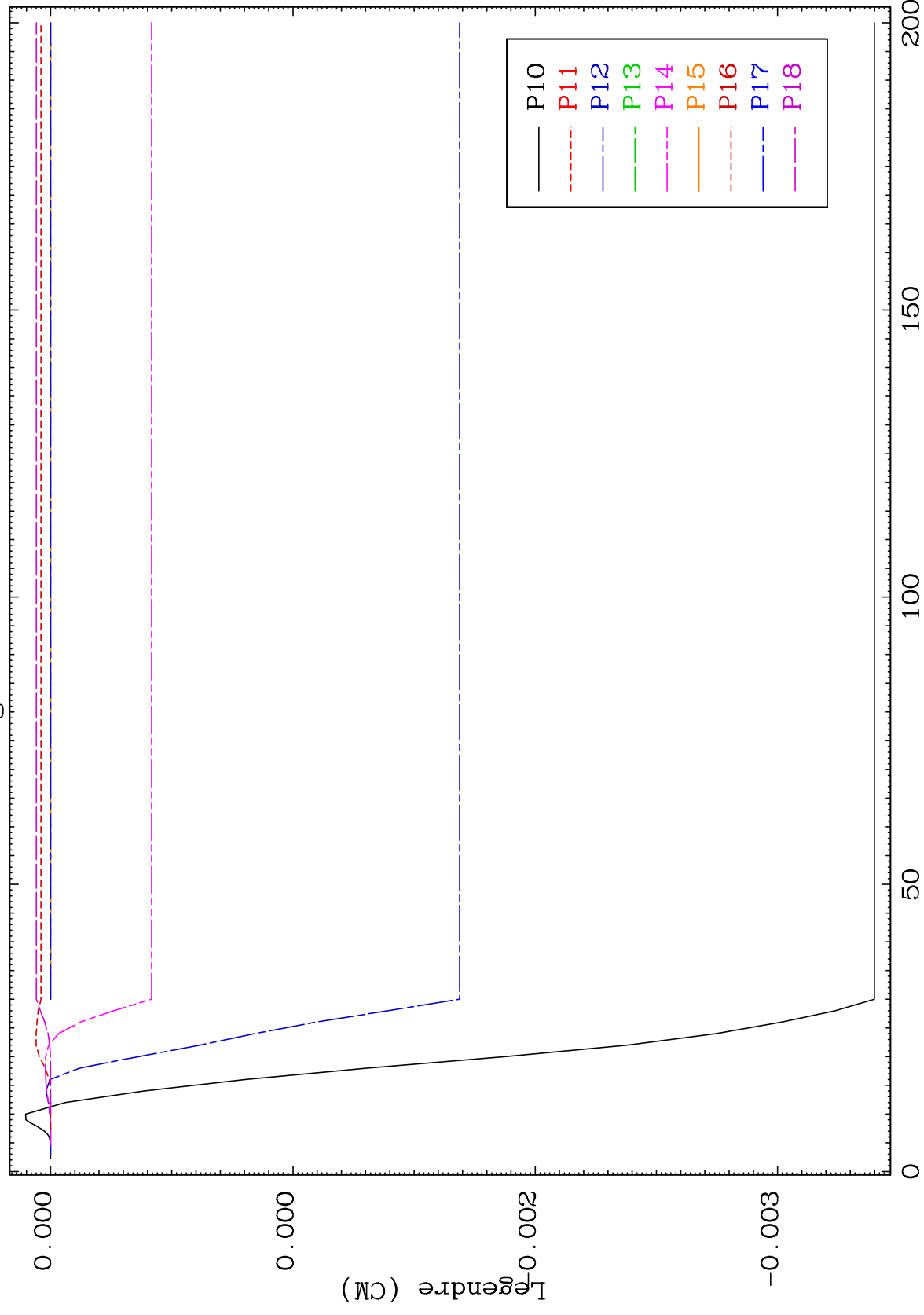
Incident Energy (MeV)

108

MAT 5634

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

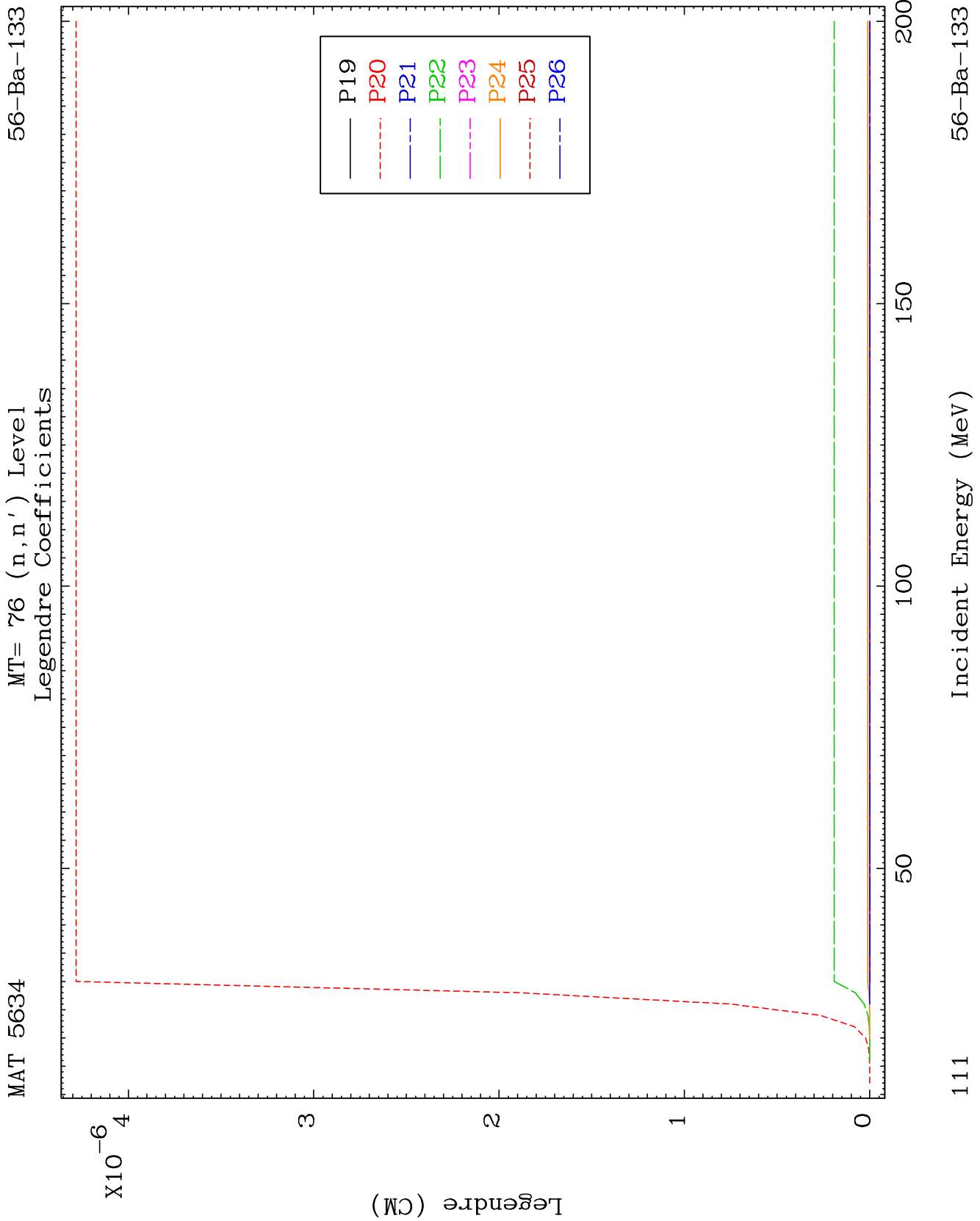
56-Ba-133



110

Incident Energy (MeV)

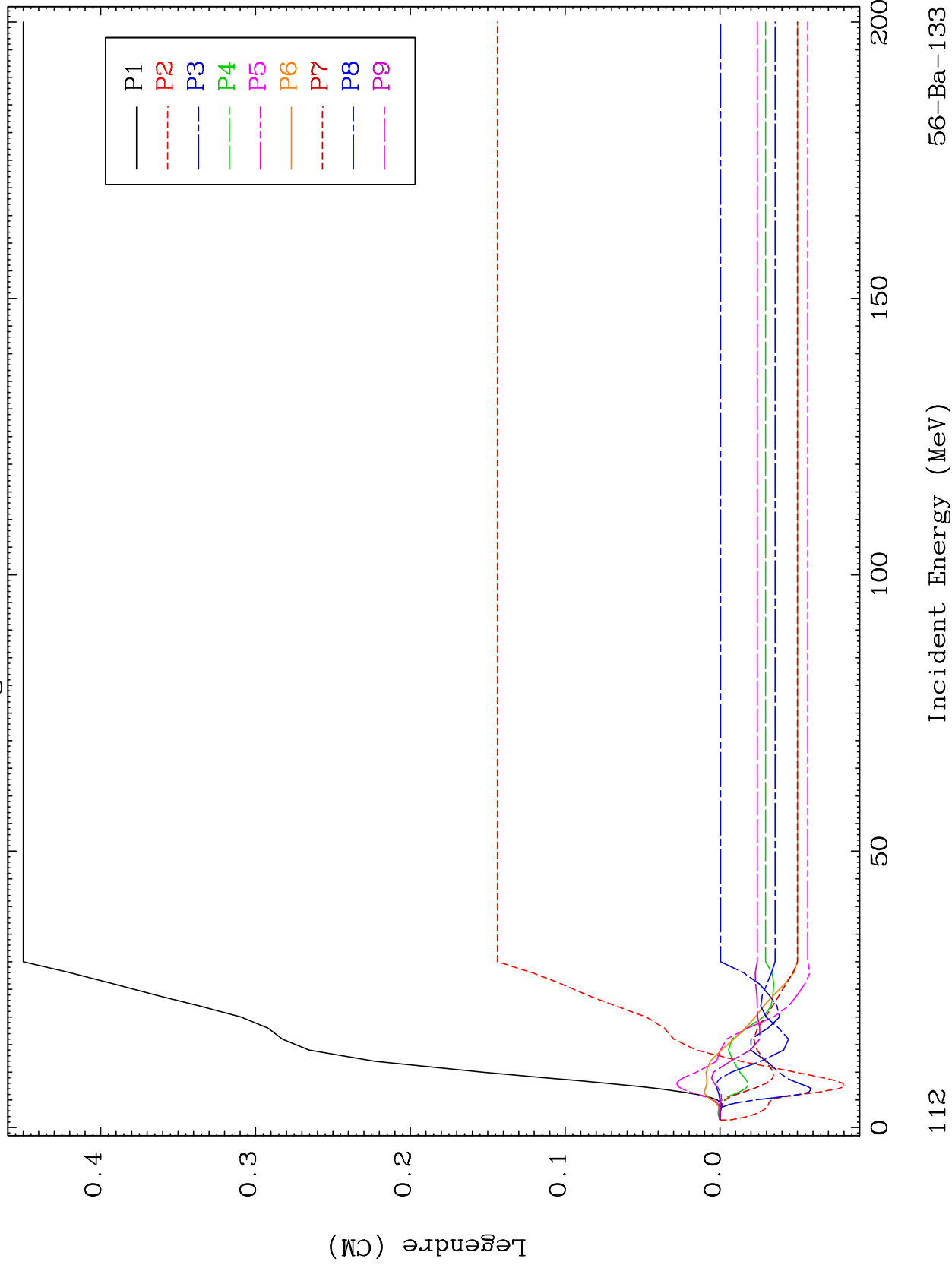
56-Ba-133



MAT 5634

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

56-Ba-133



56-Ba-133

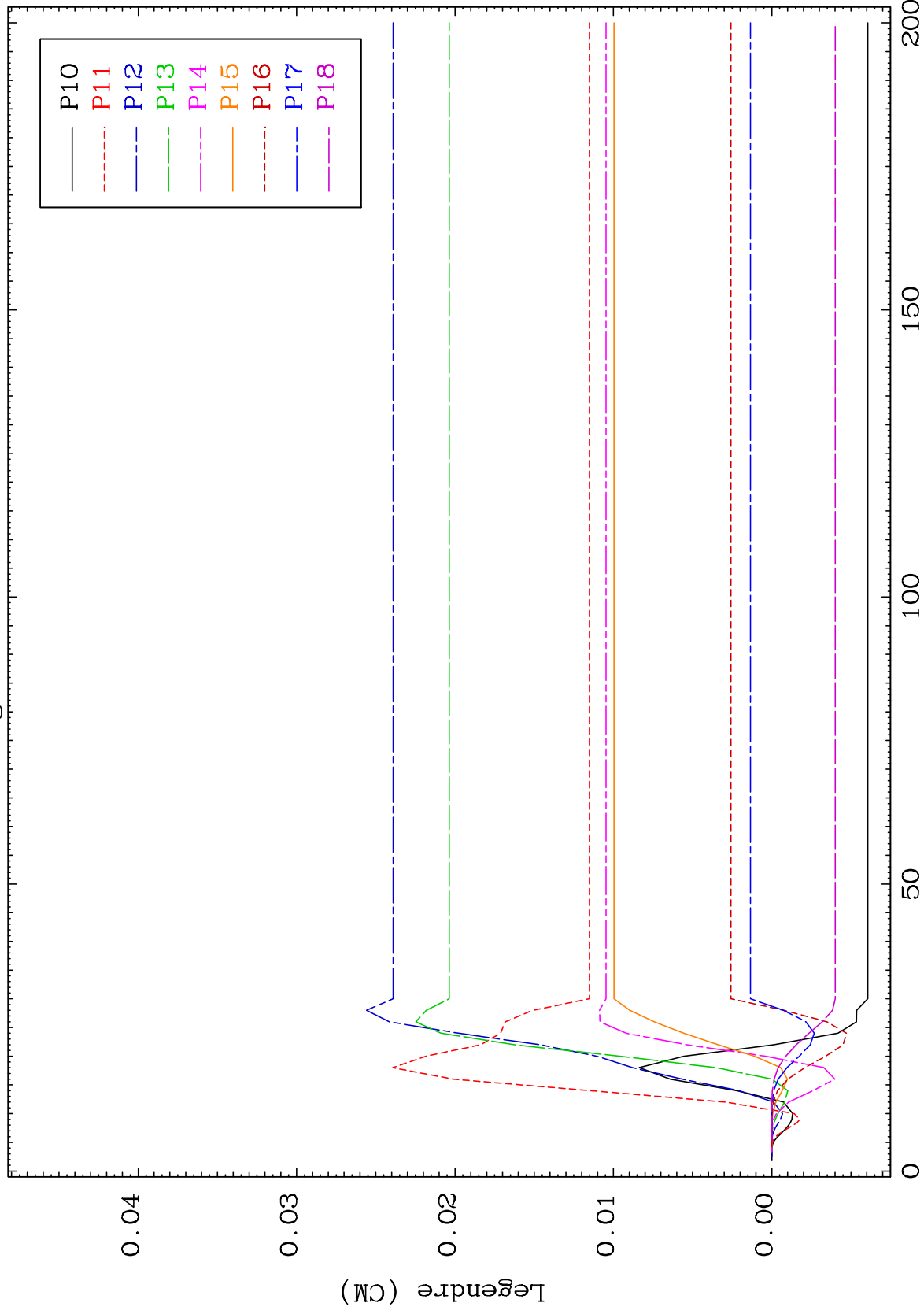
Incident Energy (MeV)

112

MAT 5634

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

56-Ba-133



113

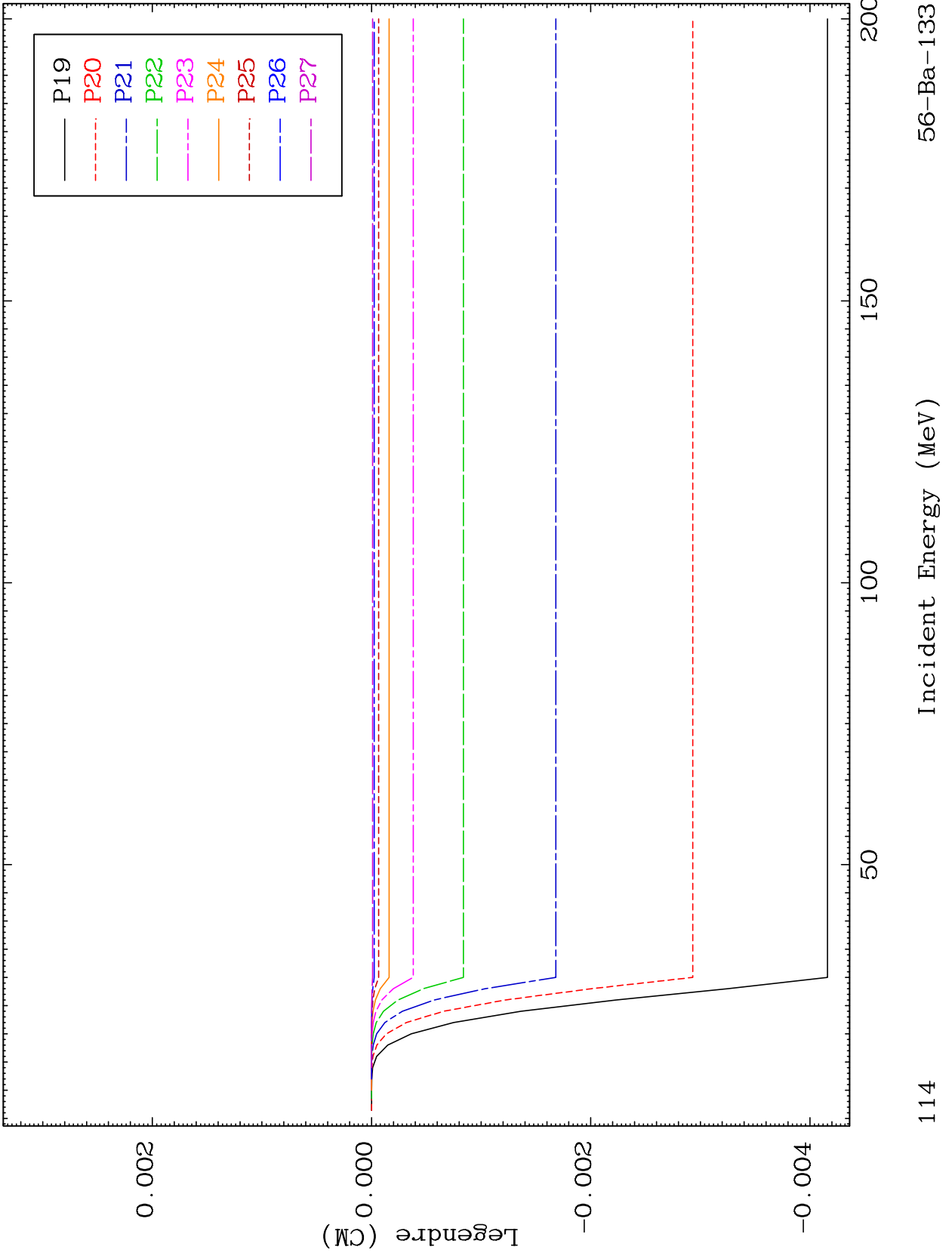
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

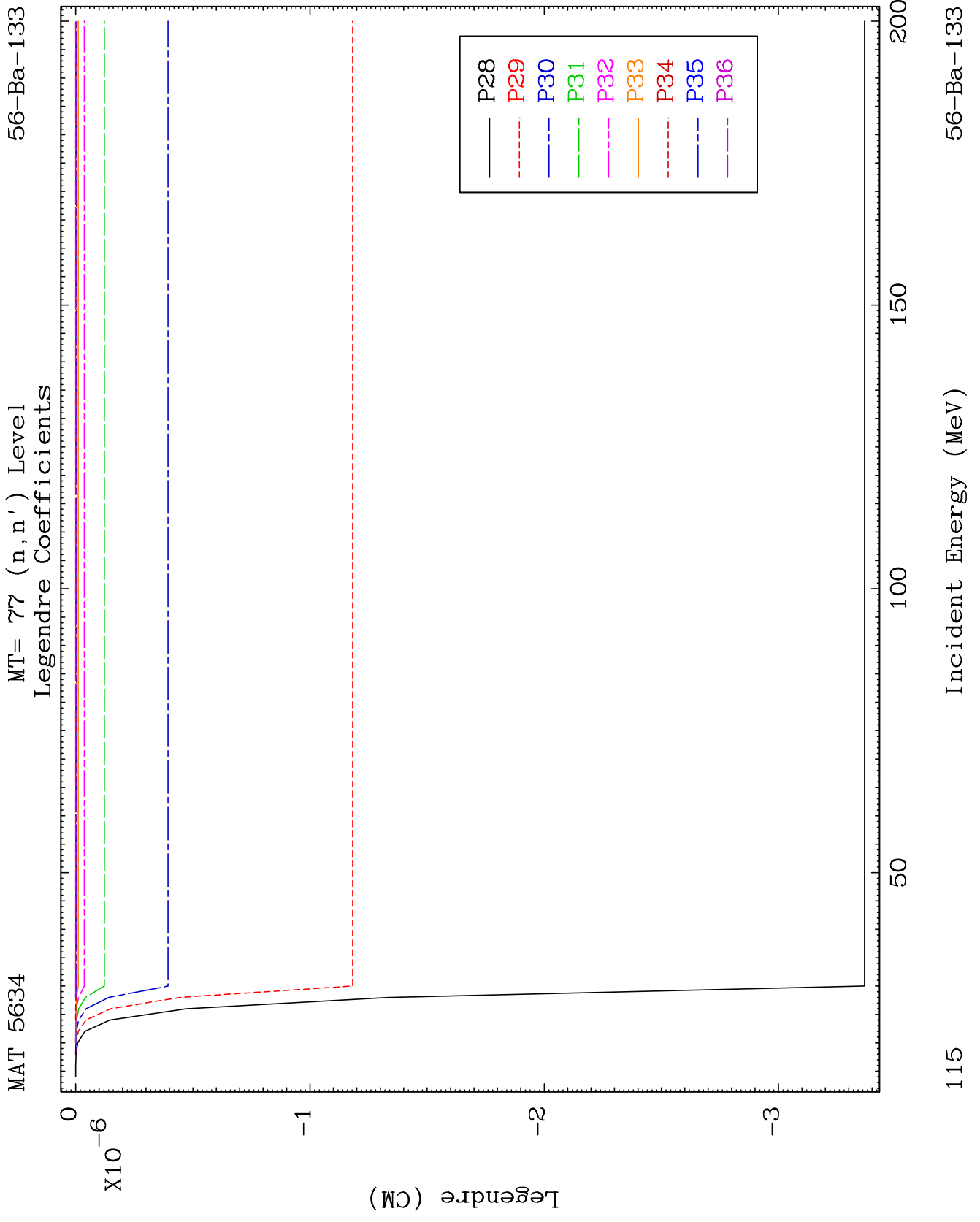
56-Ba-133



114

Incident Energy (MeV)

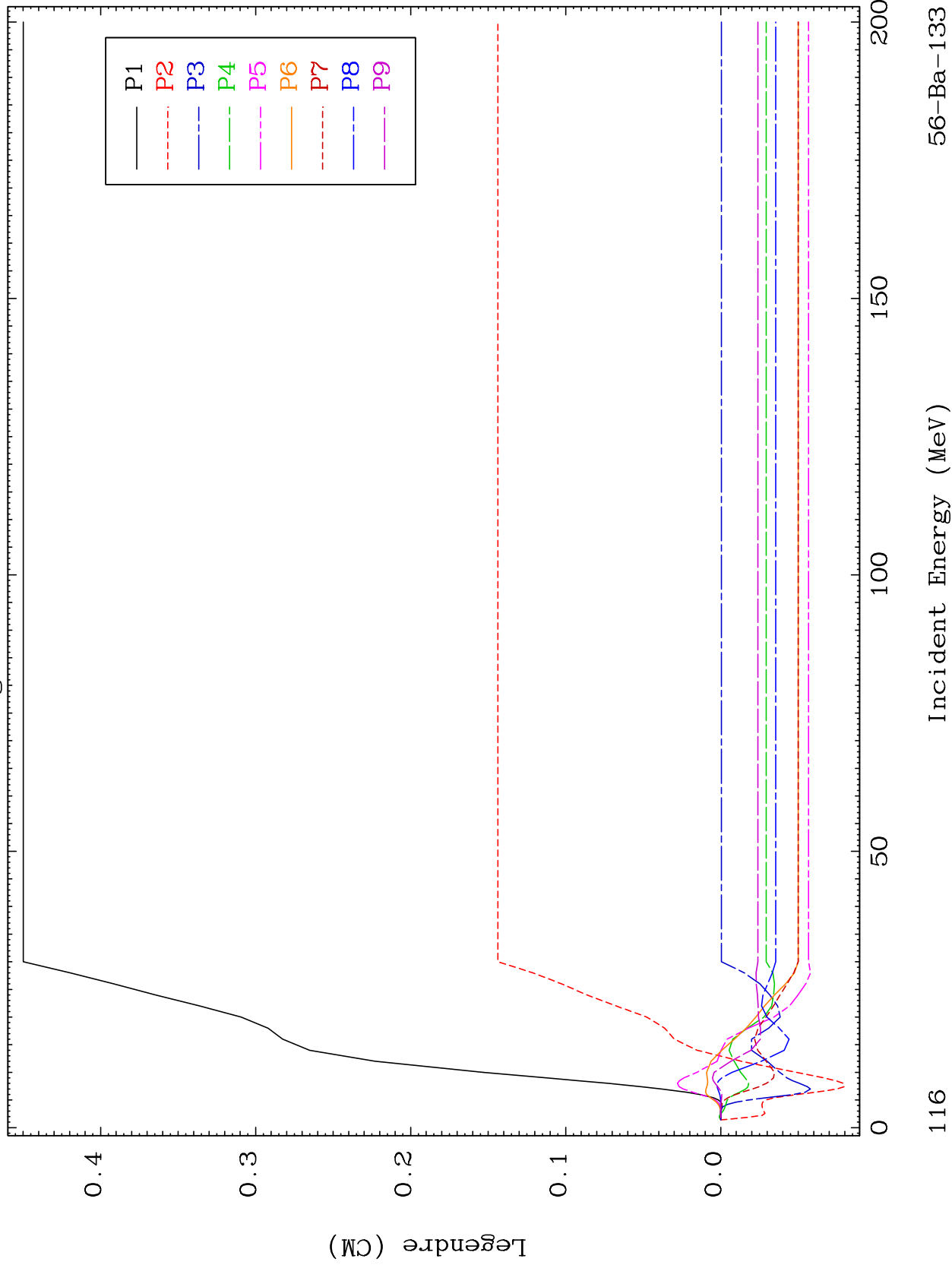
56-Ba-133



MAT 5634

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

56-Ba-133



56-Ba-133

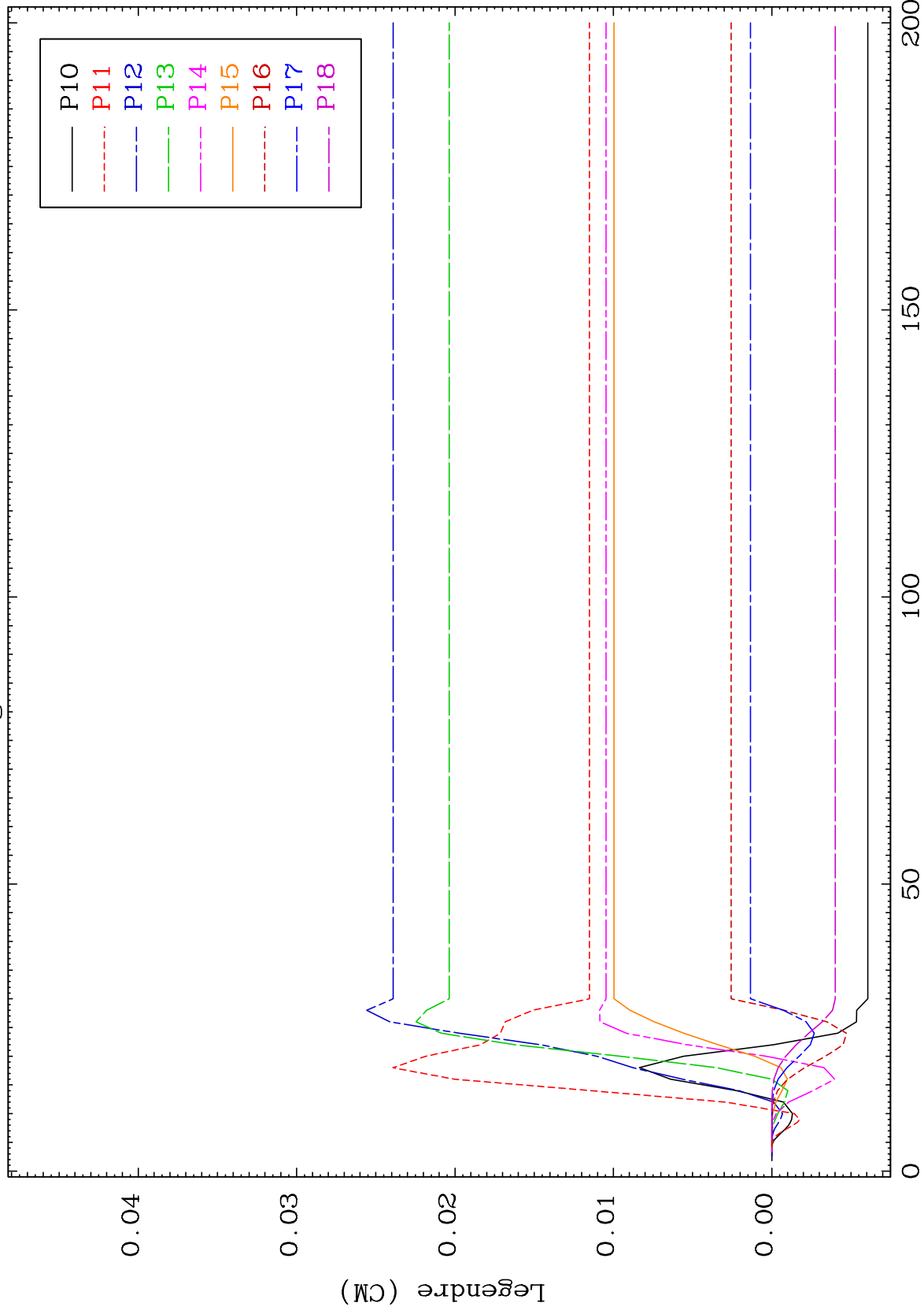
Incident Energy (MeV)

116

MAT 5634

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

56-Ba-133



117

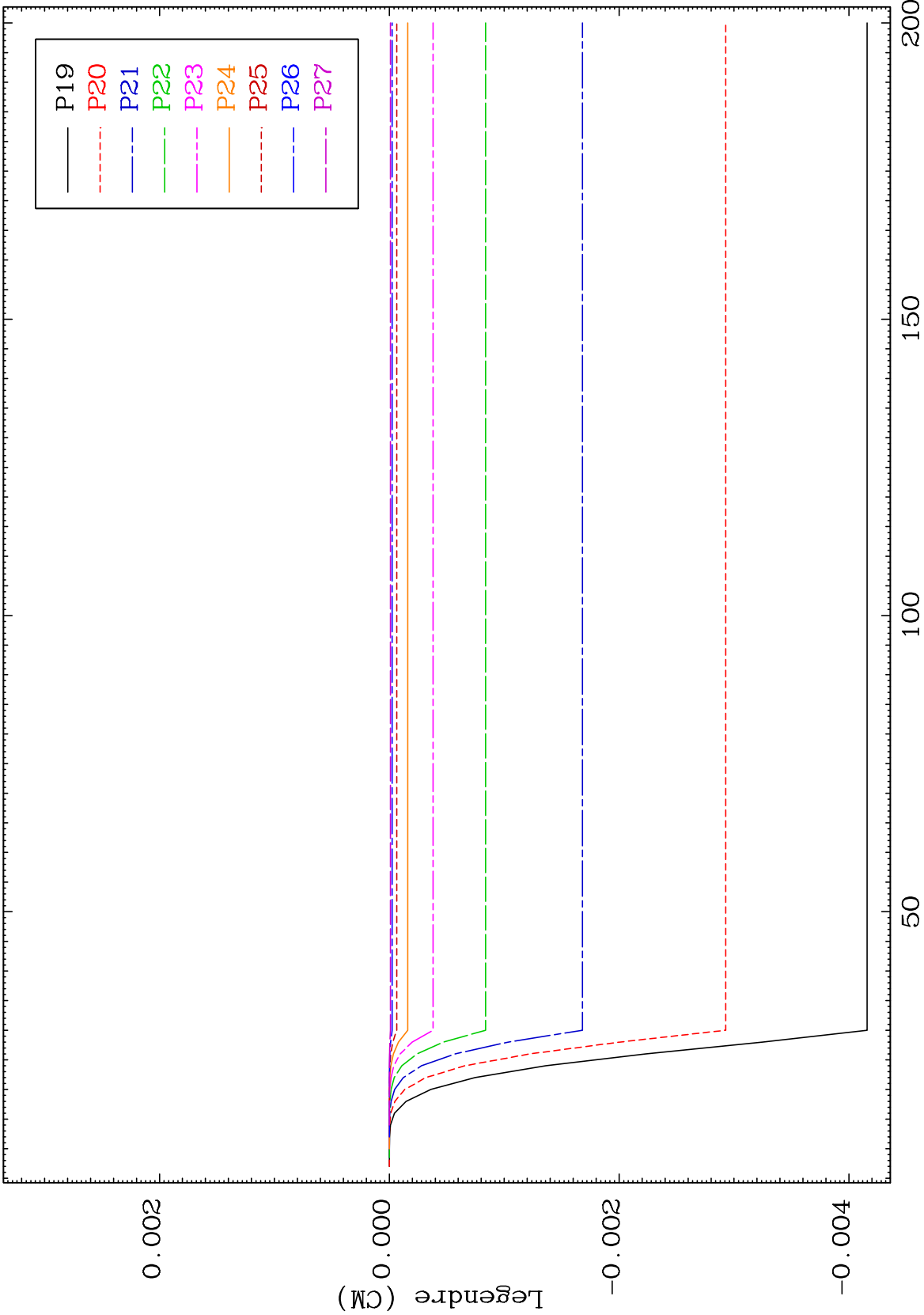
Incident Energy (MeV)

56-Ba-133

MAT 5634

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

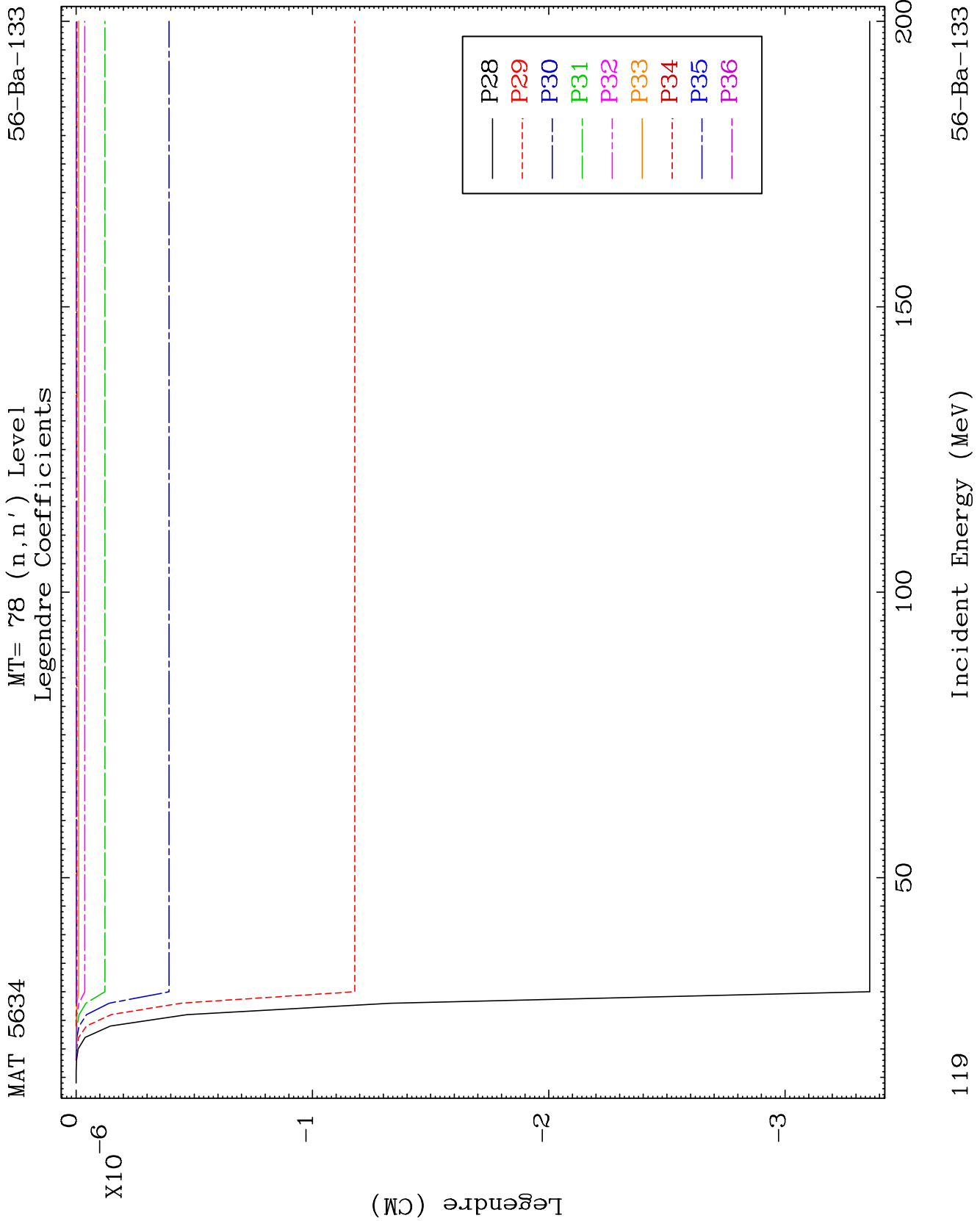
56-Ba-133



118

Incident Energy (MeV)

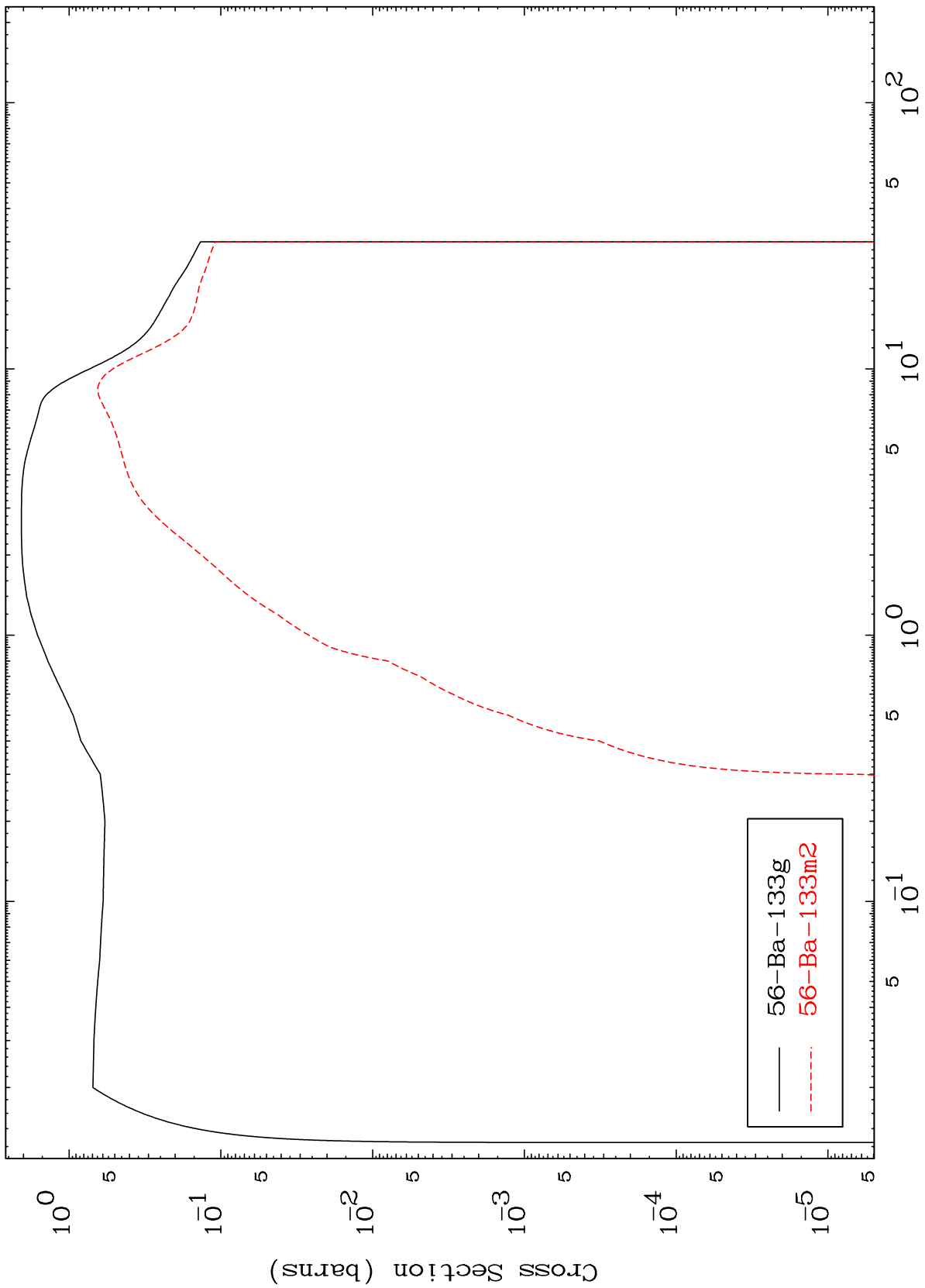
56-Ba-133



MAT 5634

56-Ba-133

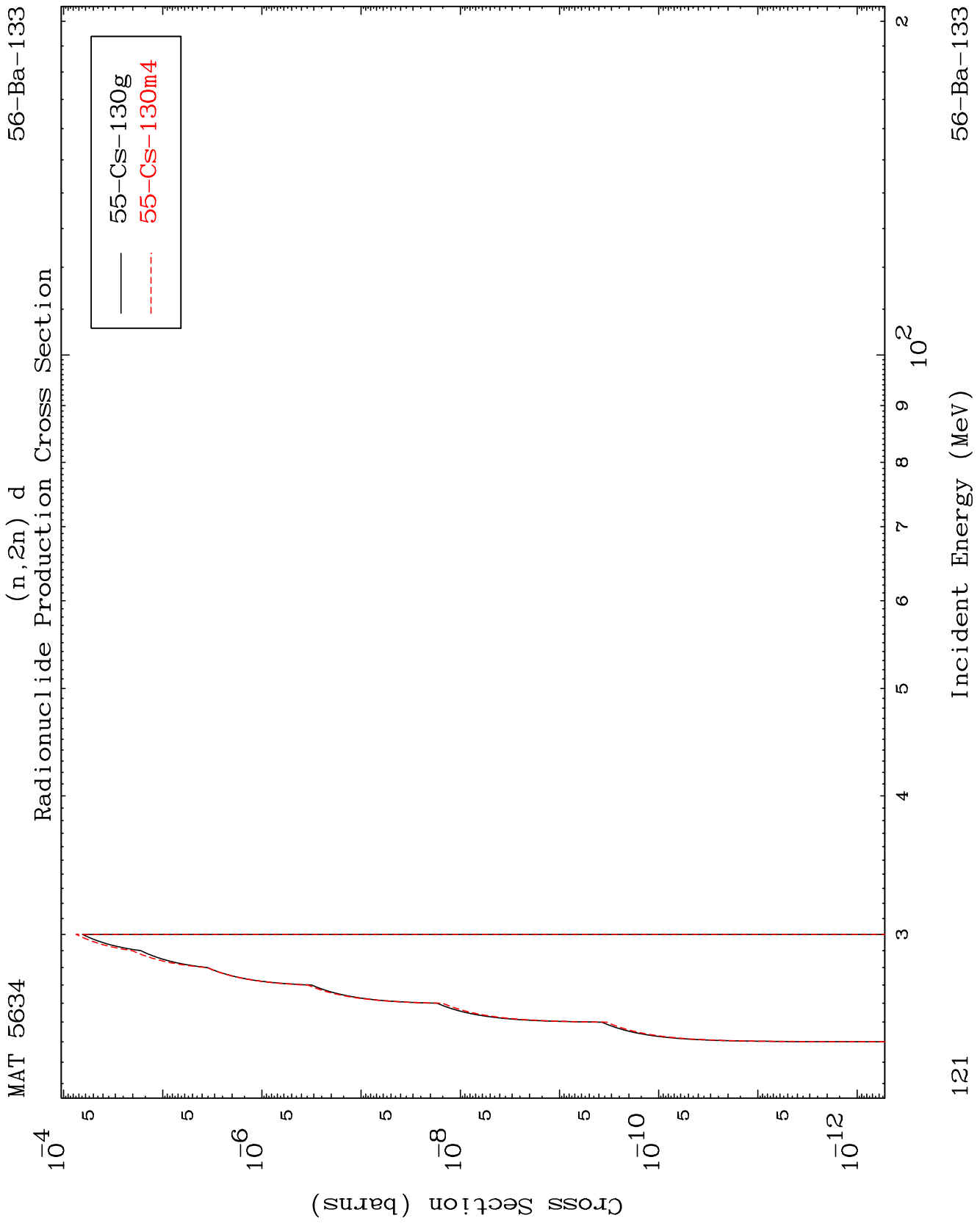
Inelastic
Radionuclide Production Cross Section



56-Ba-133g
56-Ba-133m2

120

56-Ba-133

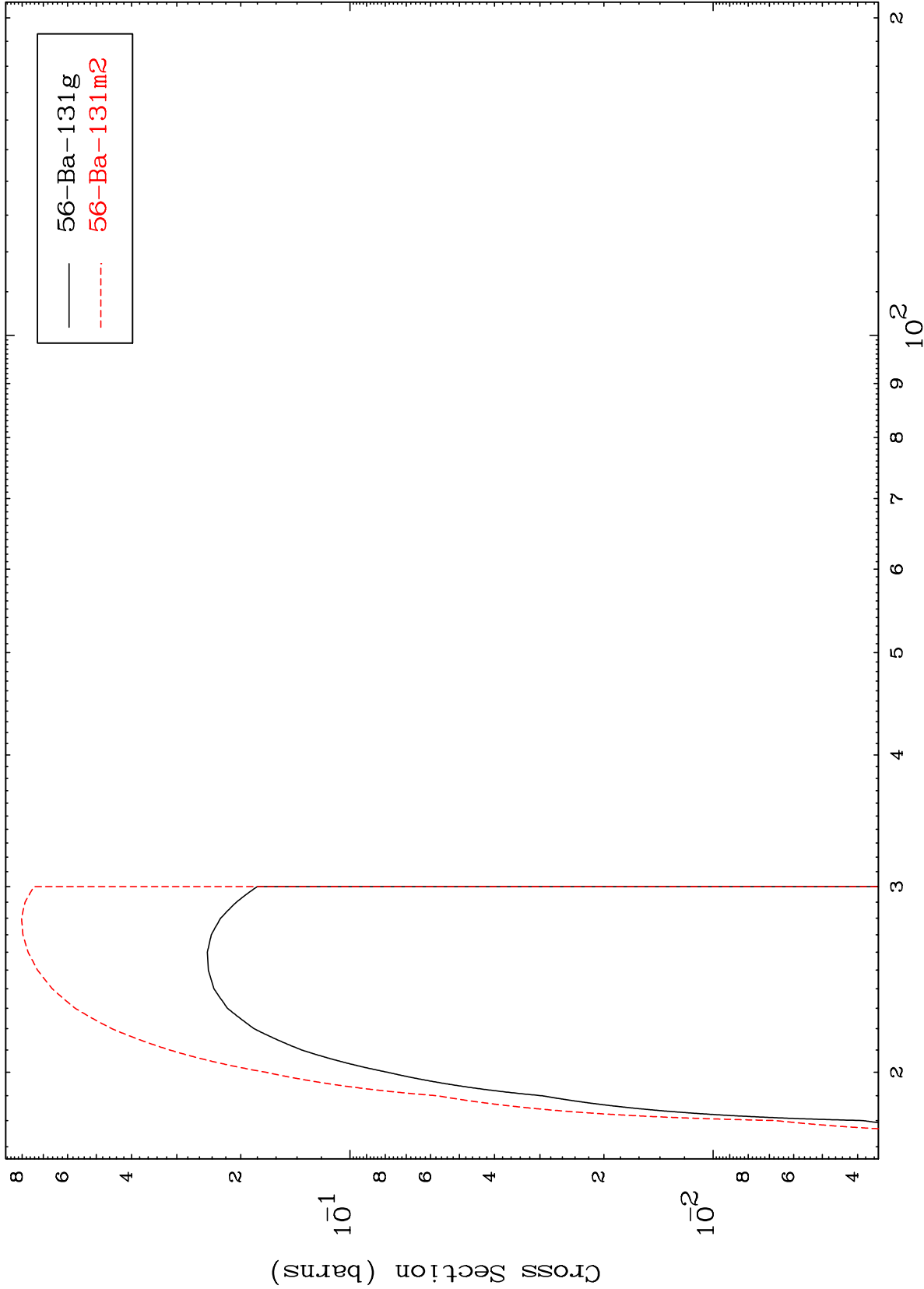


MAT 5634

(n,3n)

56-Ba-133

Radionuclide Production Cross Section



122

Incident Energy (MeV)

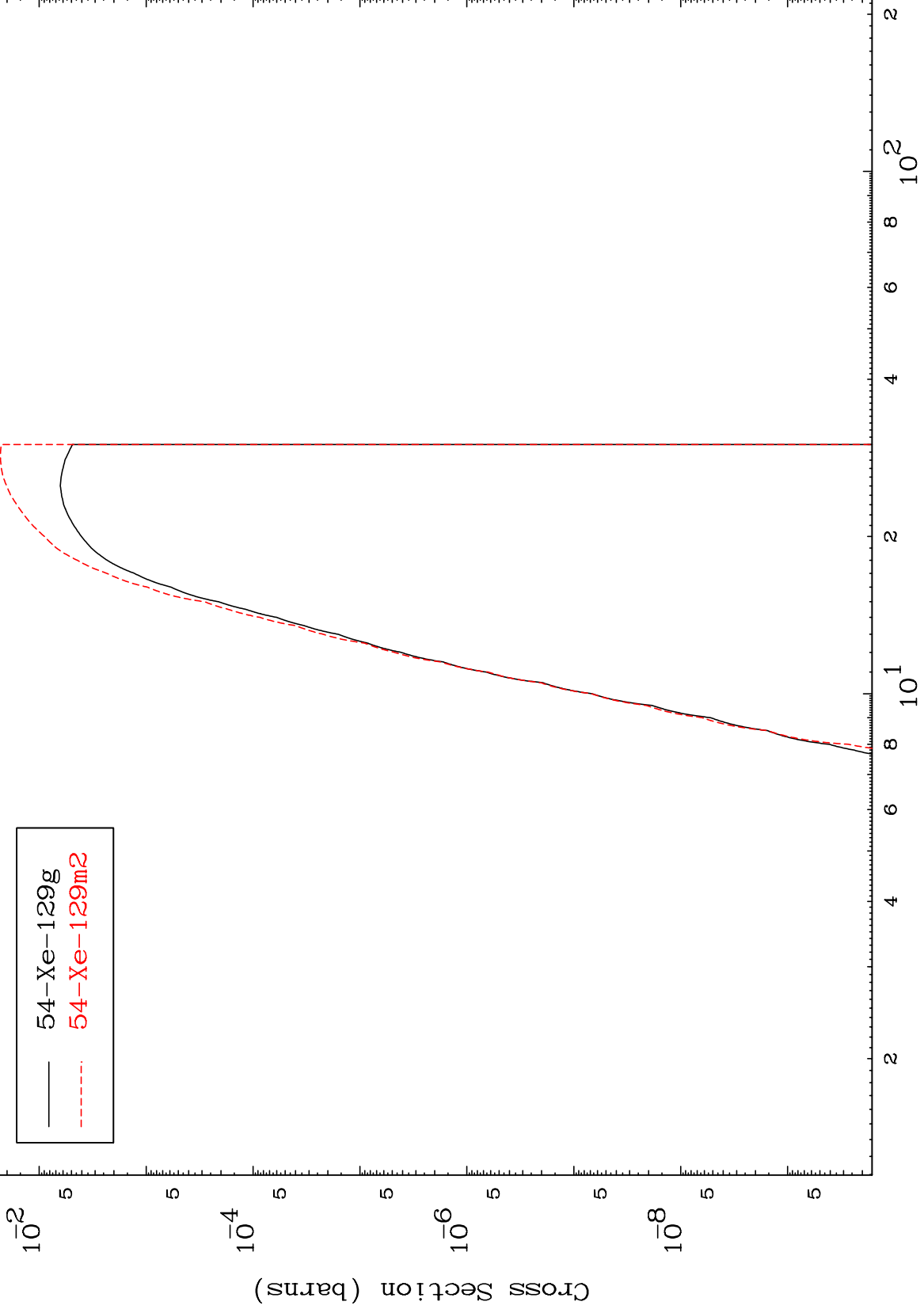
56-Ba-133

MAT 5634

(n,n') α

56-Ba-133

Radionuclide Production Cross Section



54-Xe-129g
54-Xe-129m2

123

Incident Energy (MeV)

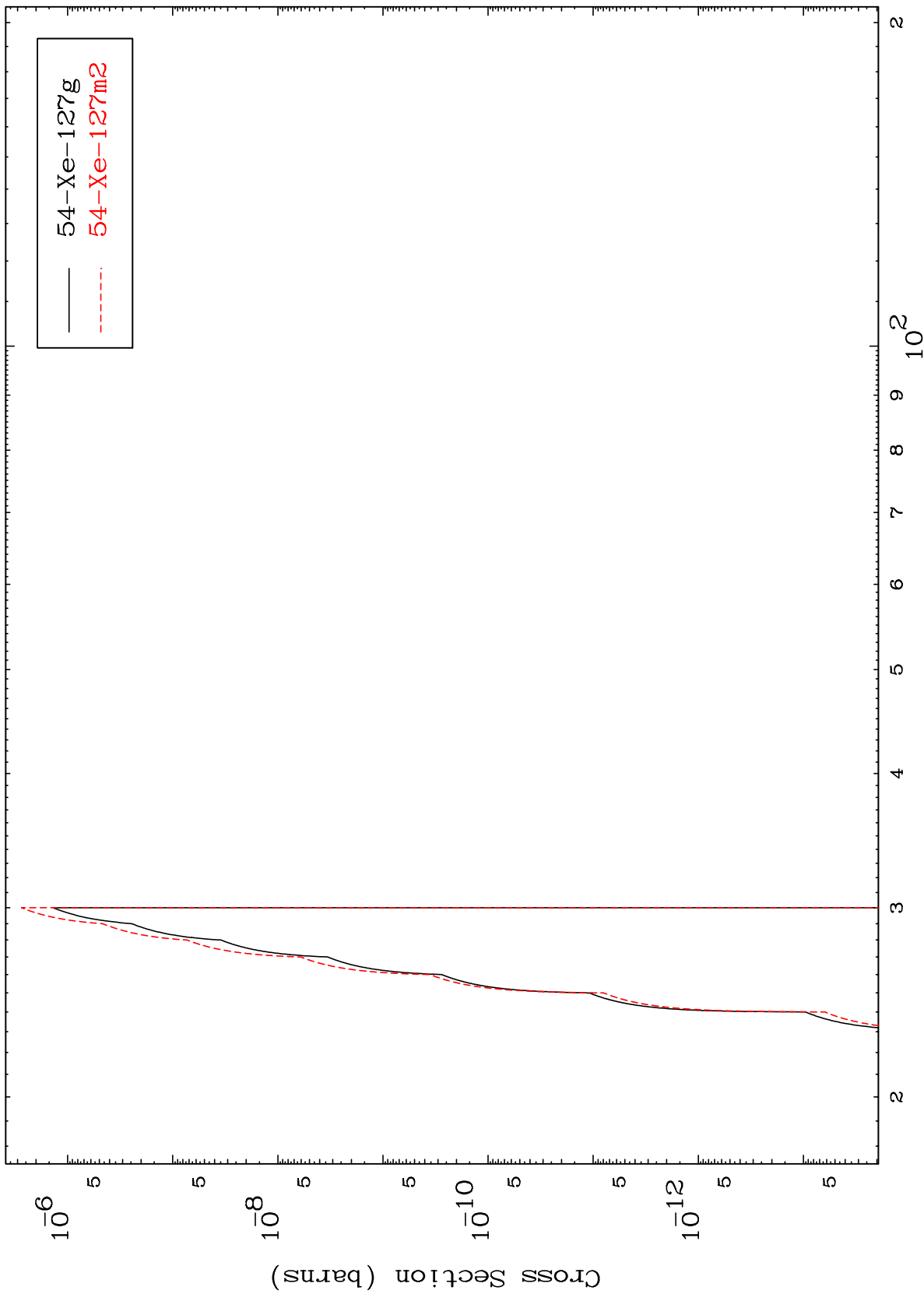
56-Ba-133

MAT 5634

(n,3n) α

56-Ba-133

Radionuclide Production Cross Section



124

Incident Energy (MeV)

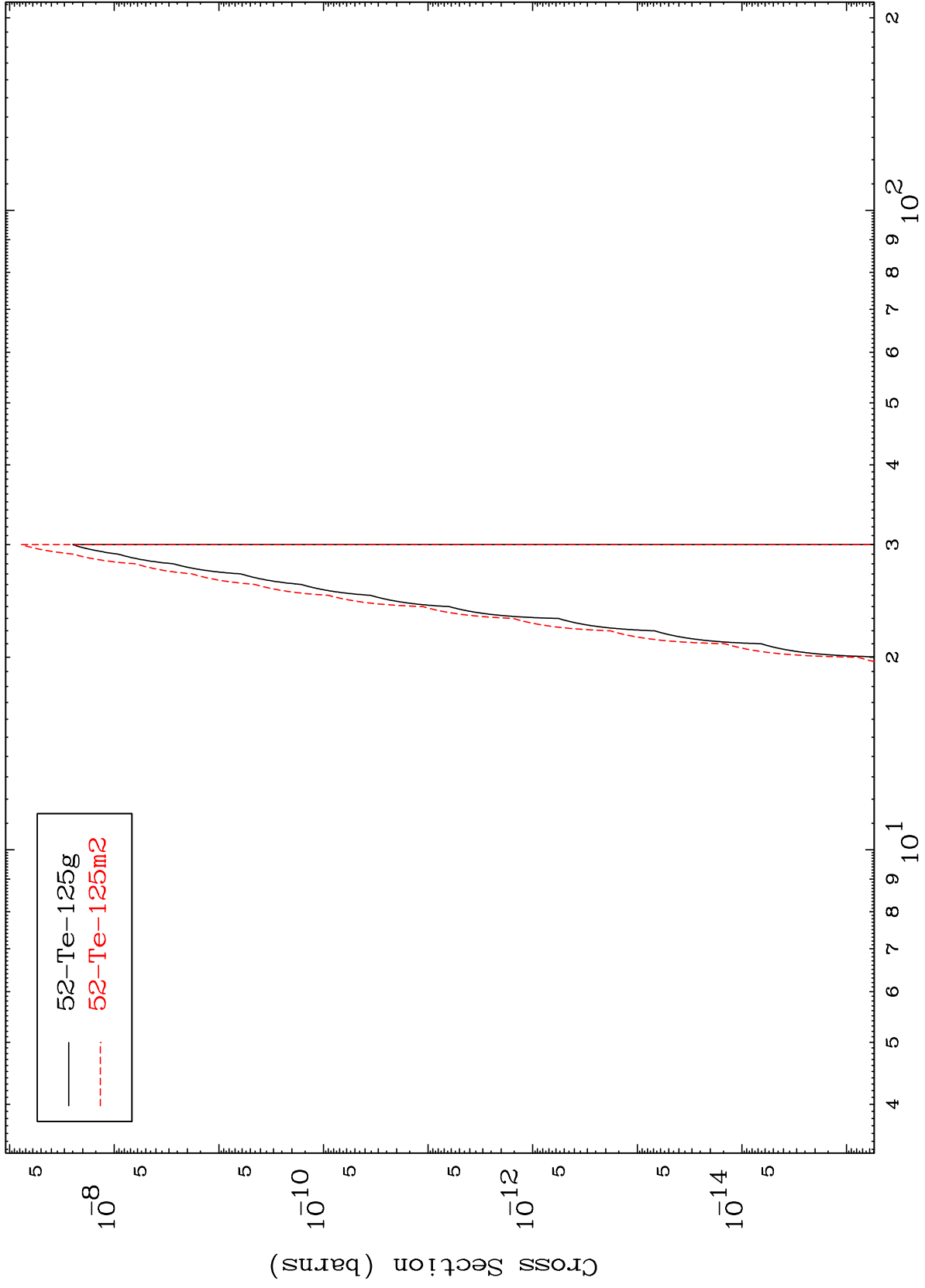
56-Ba-133

MAT 5634

(n,n') 2α

56-Ba-133

Radionuclide Production Cross Section



— 52-Te-125g
- - - 52-Te-125m2

125

Incident Energy (MeV)

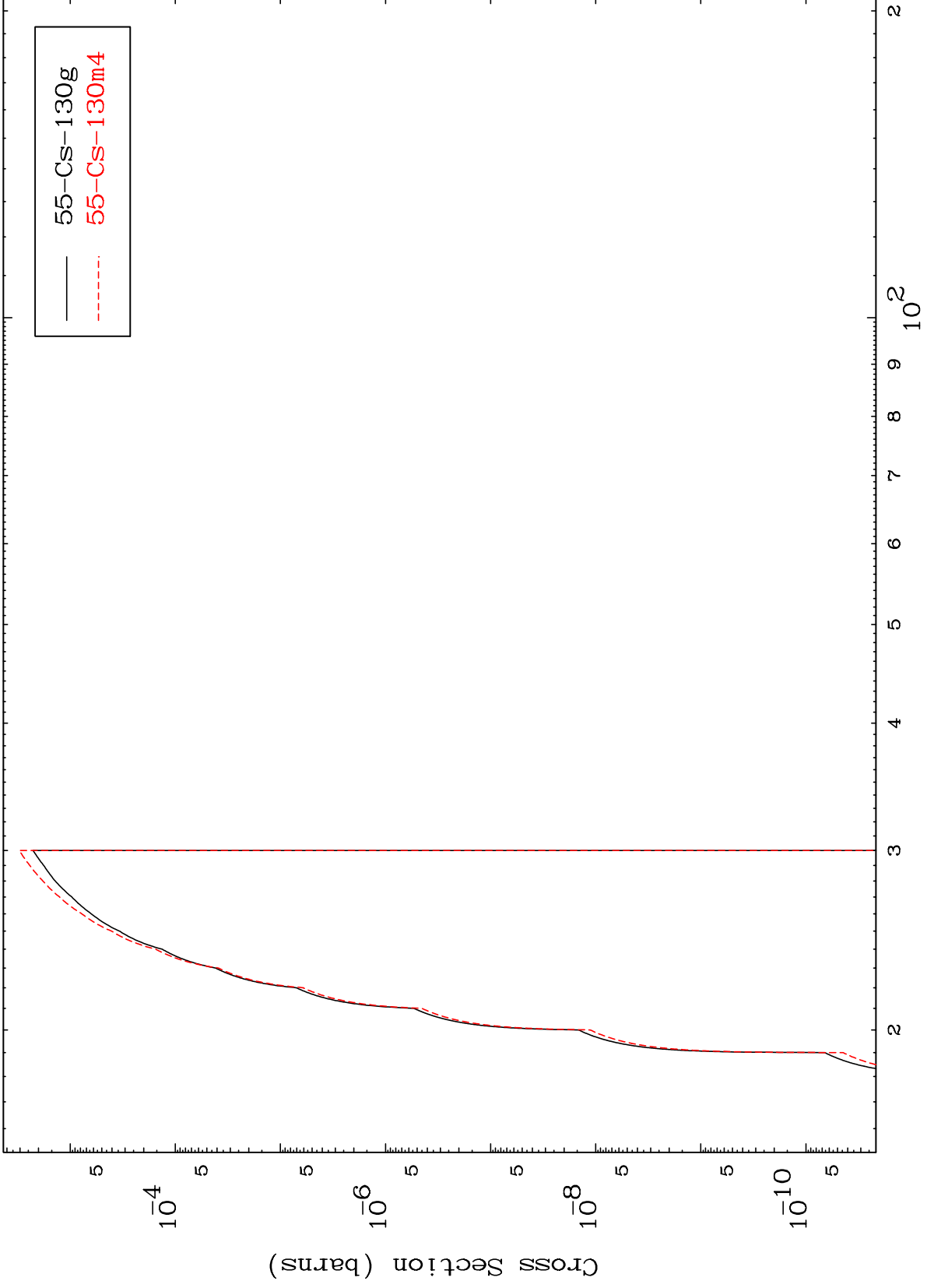
56-Ba-133

MAT 5634

(n,n') t

56-Ba-133

Radionuclide Production Cross Section



126

Incident Energy (MeV)

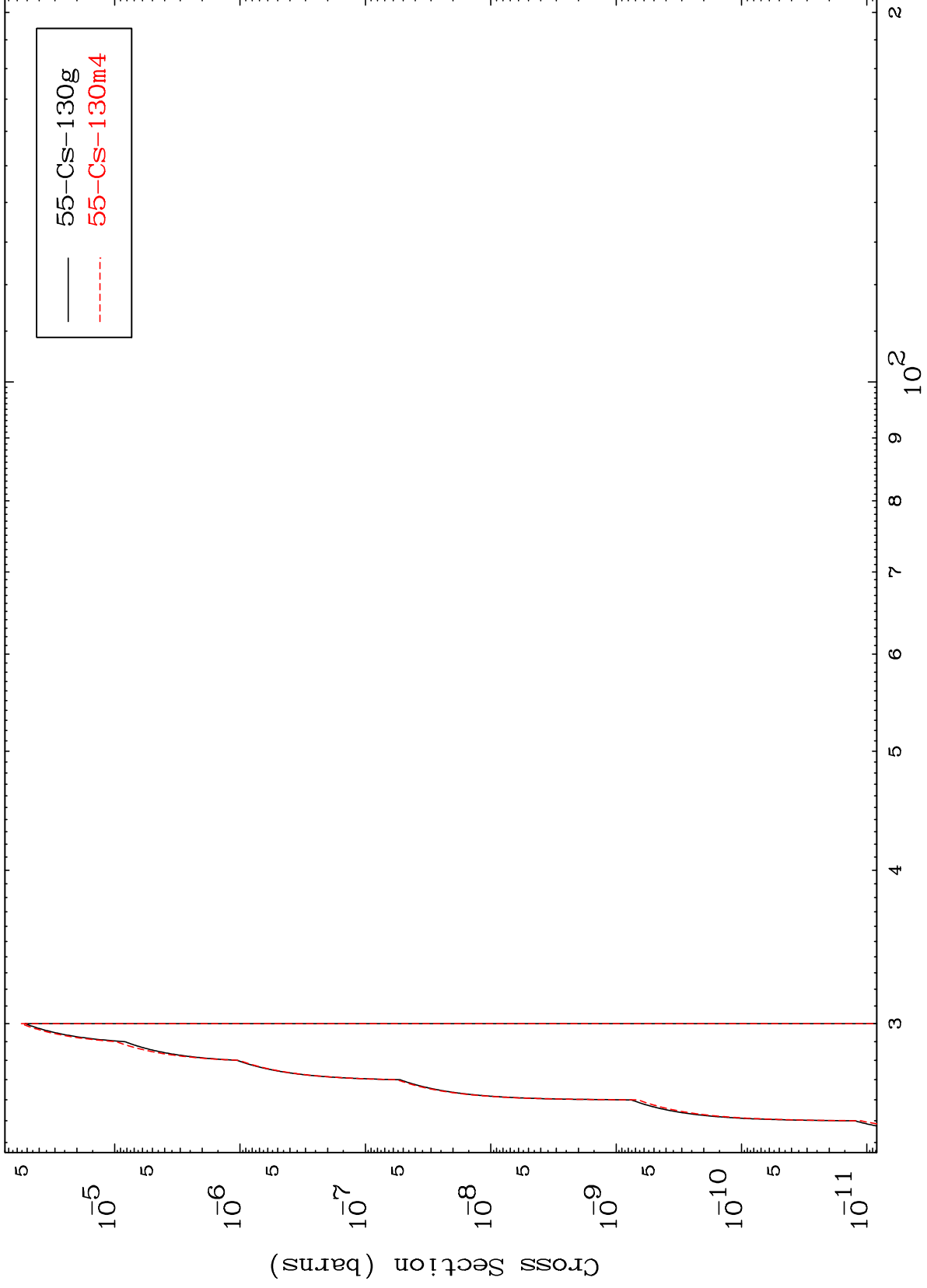
56-Ba-133

MAT 5634

(n,3n) p

56-Ba-133

Radionuclide Production Cross Section



127

Incident Energy (MeV)

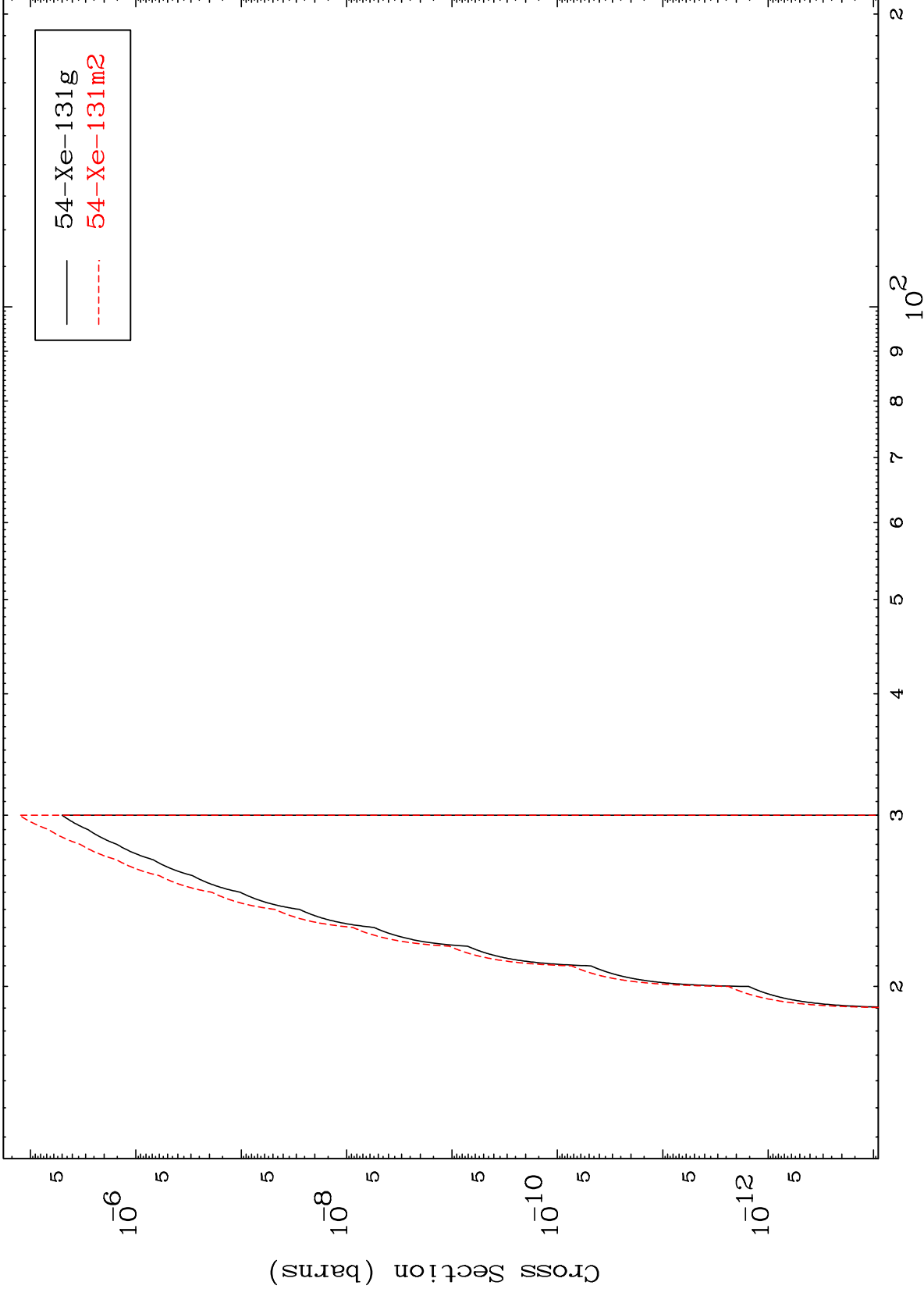
56-Ba-133

MAT 5634

(n,2n) p

56-Ba-133

Radionuclide Production Cross Section



54-Xe-131g
54-Xe-131m2

128

Incident Energy (MeV)

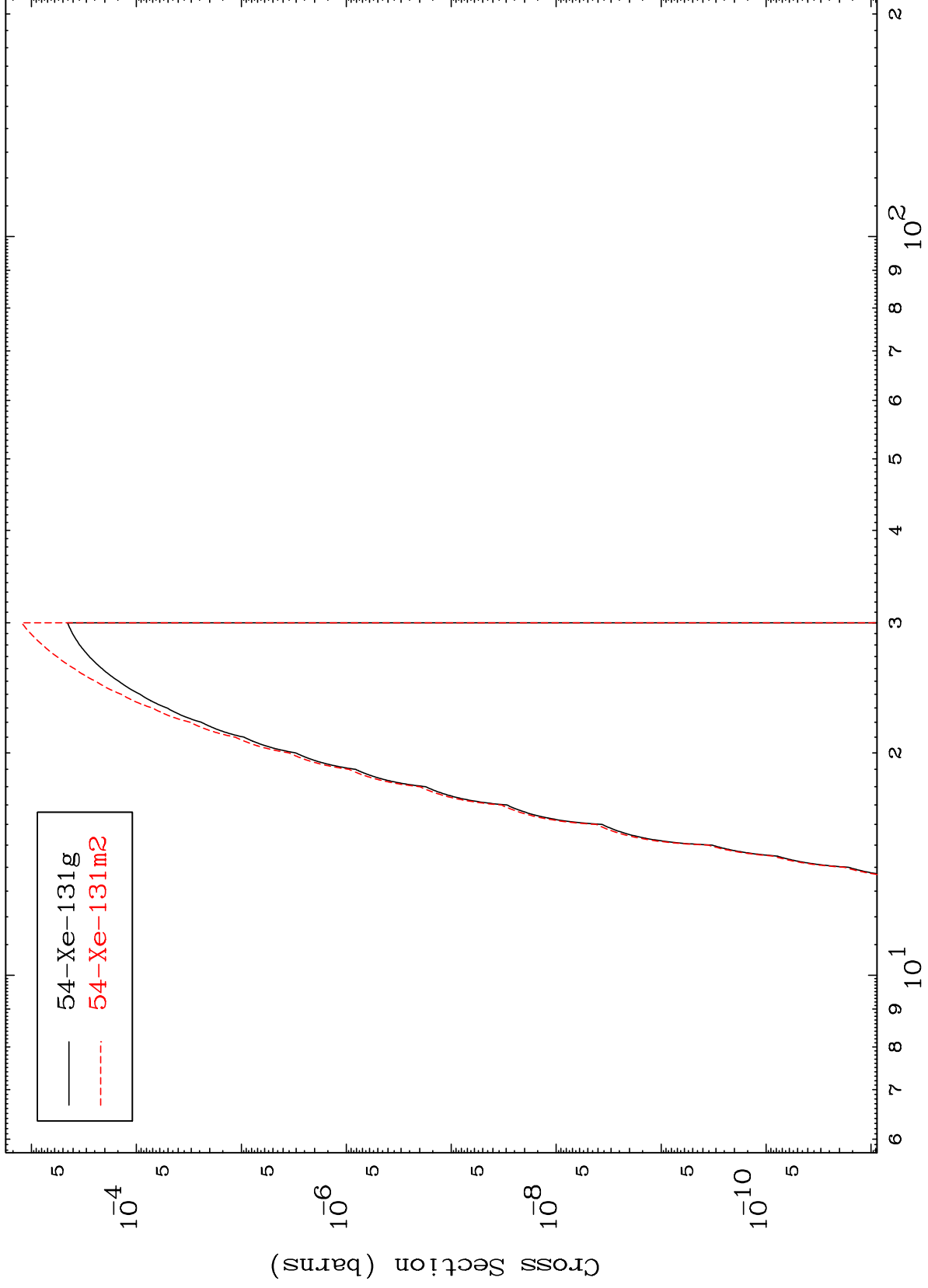
56-Ba-133

MAT 5634

(n,He-3)

56-Ba-133

Radionuclide Production Cross Section



129

Incident Energy (MeV)

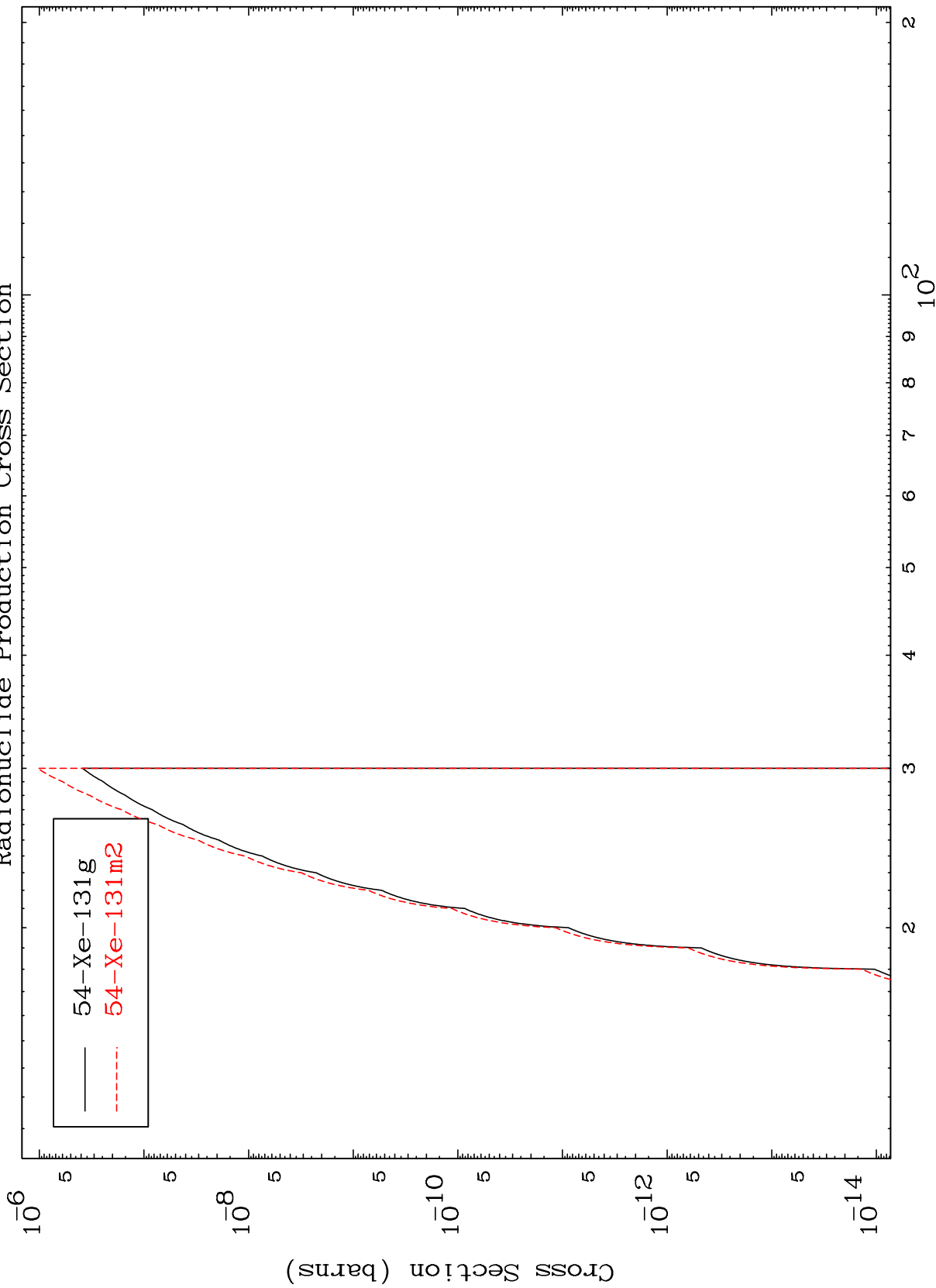
56-Ba-133

MAT 5634

(n,p) d

56-Ba-133

Radionuclide Production Cross Section



130

Incident Energy (MeV)

56-Ba-133