

Program EVALPLOT
(Version 2017-1)

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

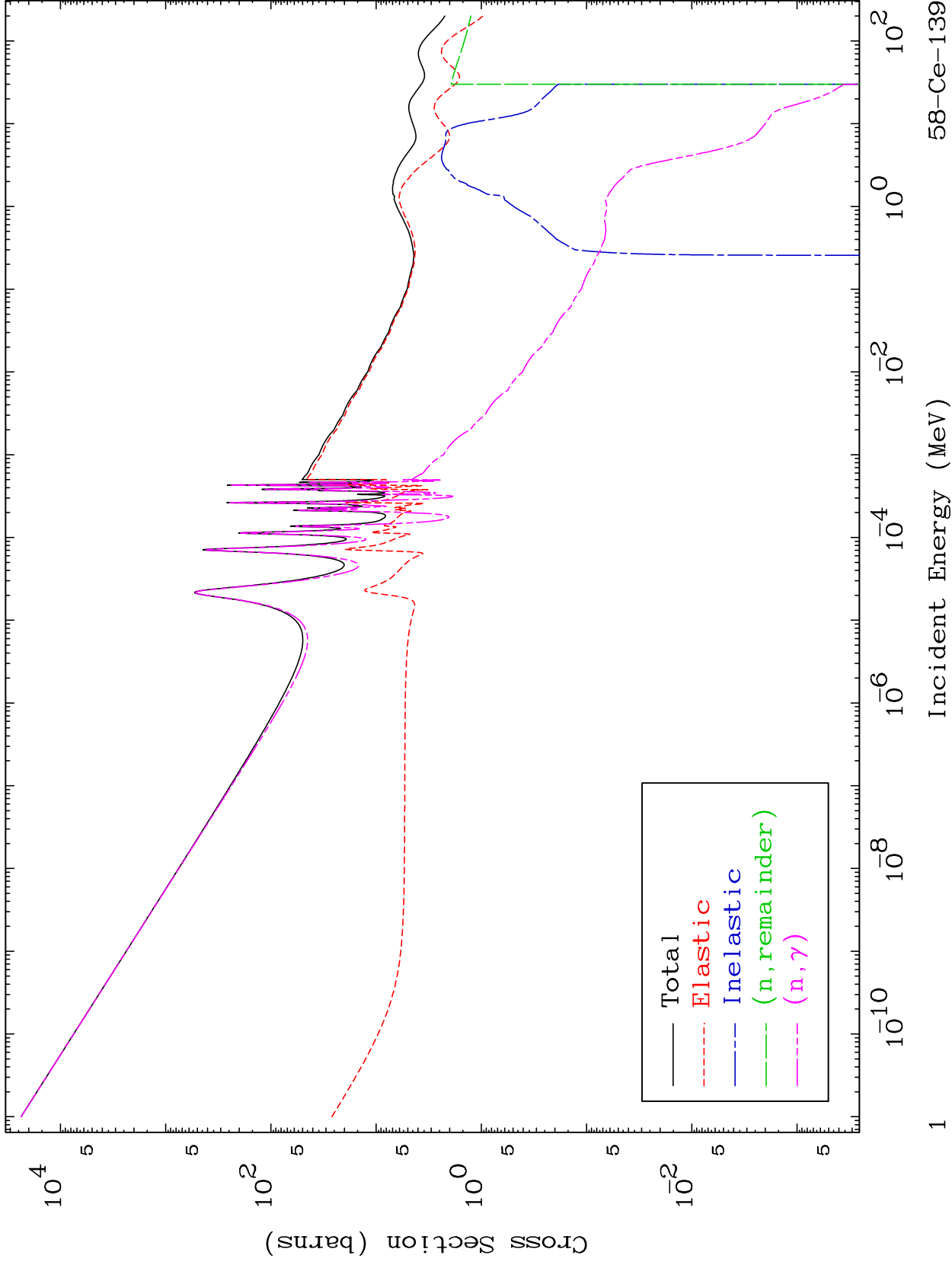
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Press Mouse Button to Start

MAT 5834

Major
293 Kelvin Cross Sections

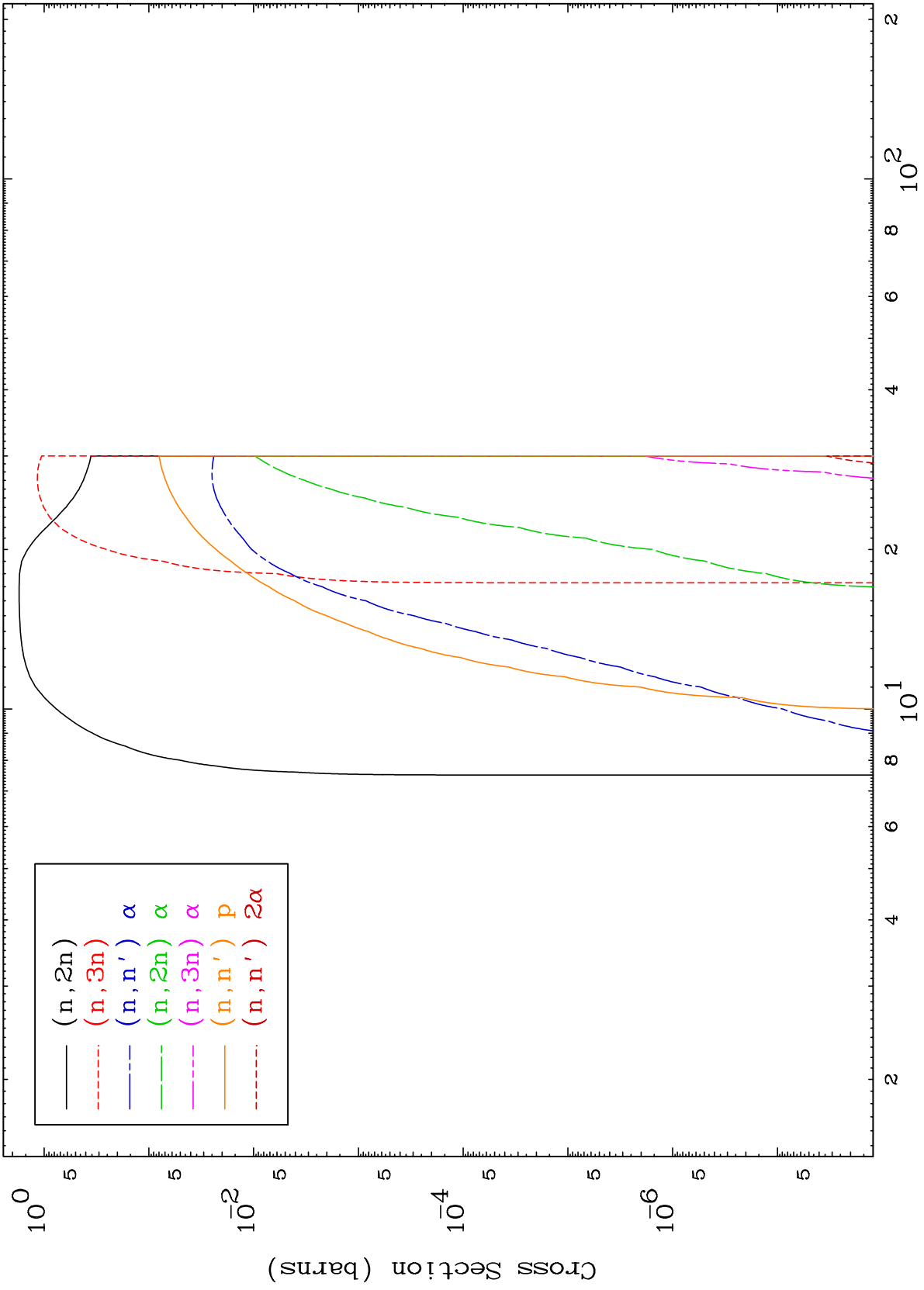
58-Ce-139

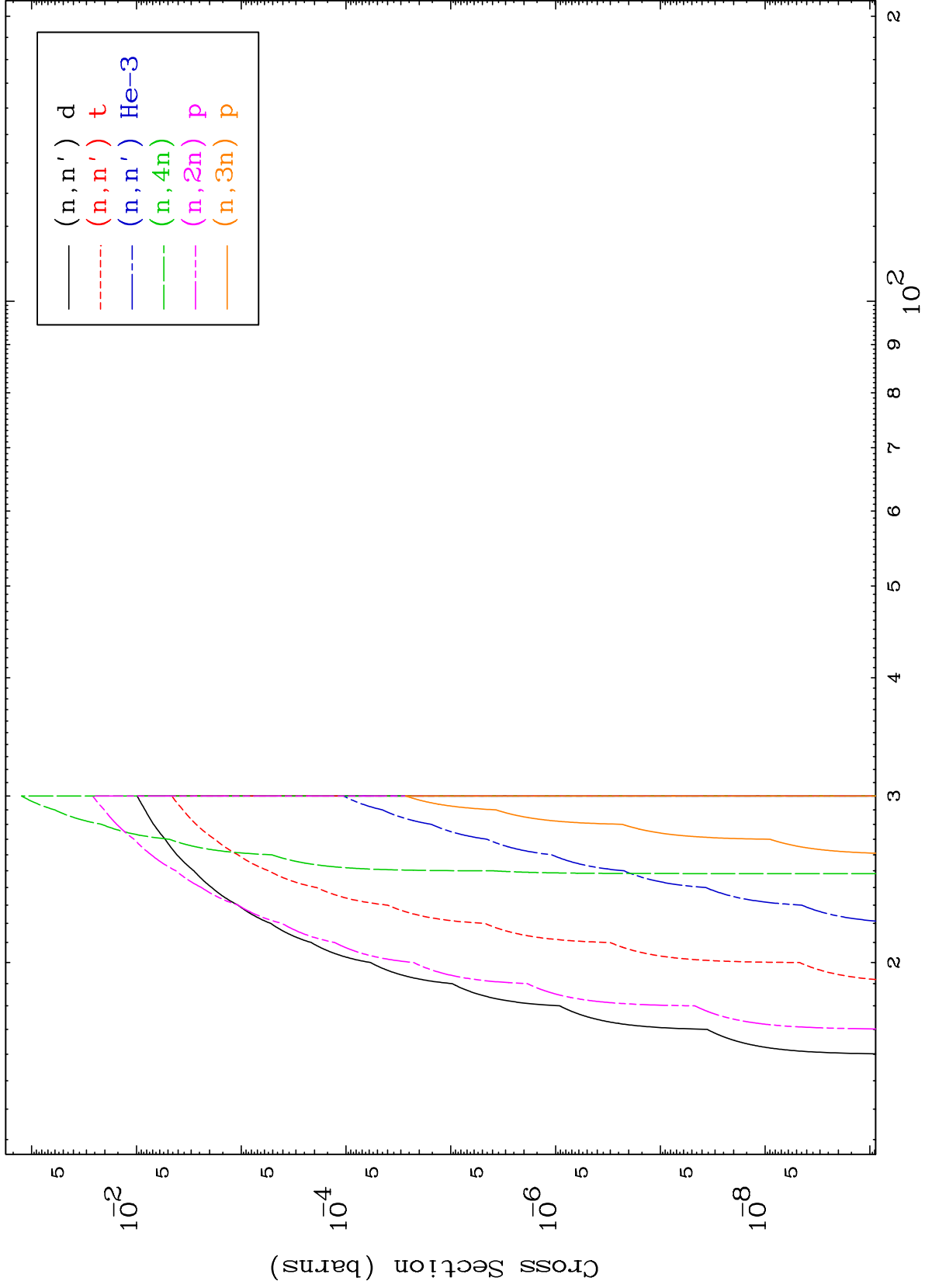


MAT 5834

Neutron Production
293 Kelvin Cross Sections

58-Ce-139

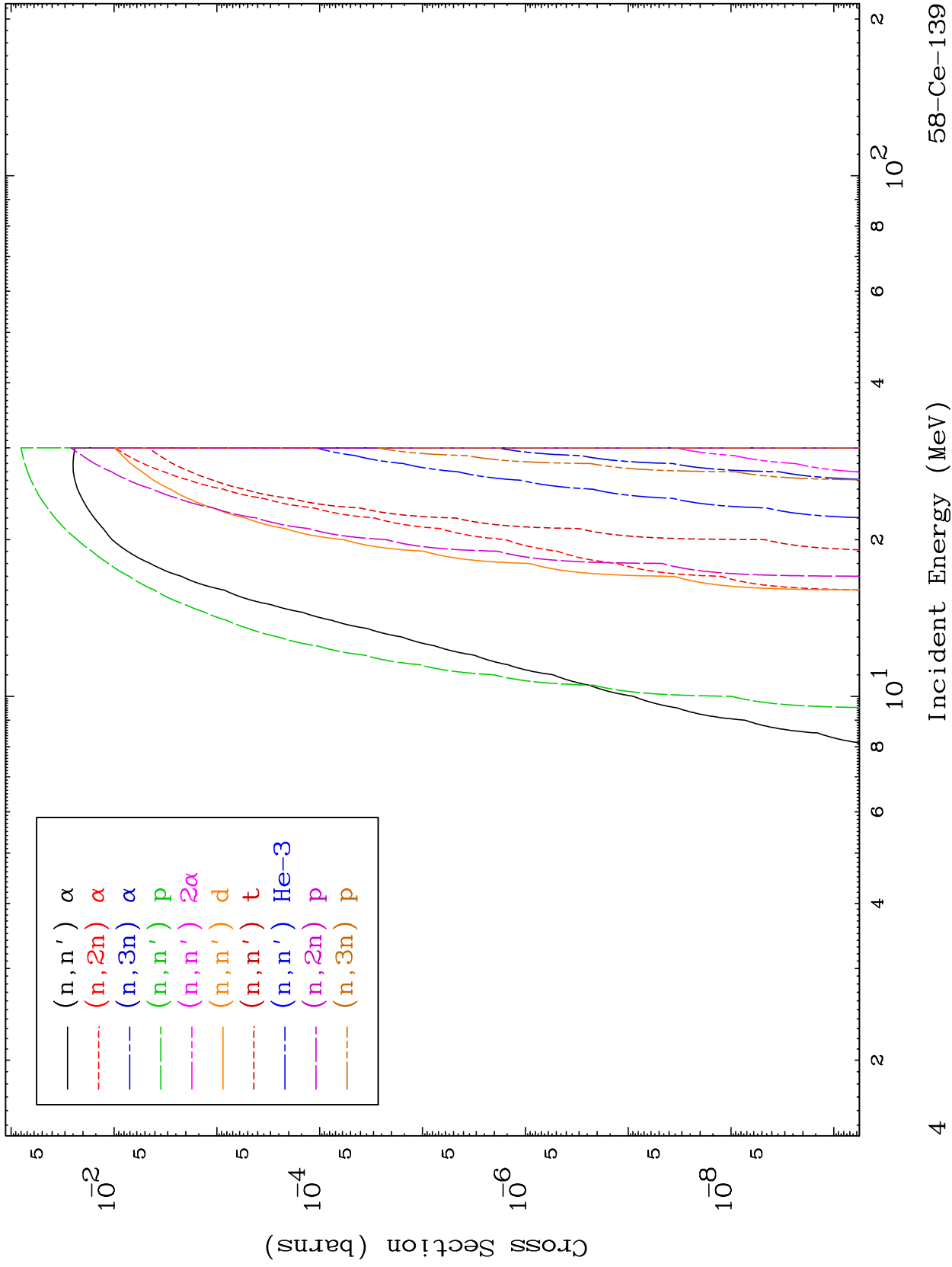


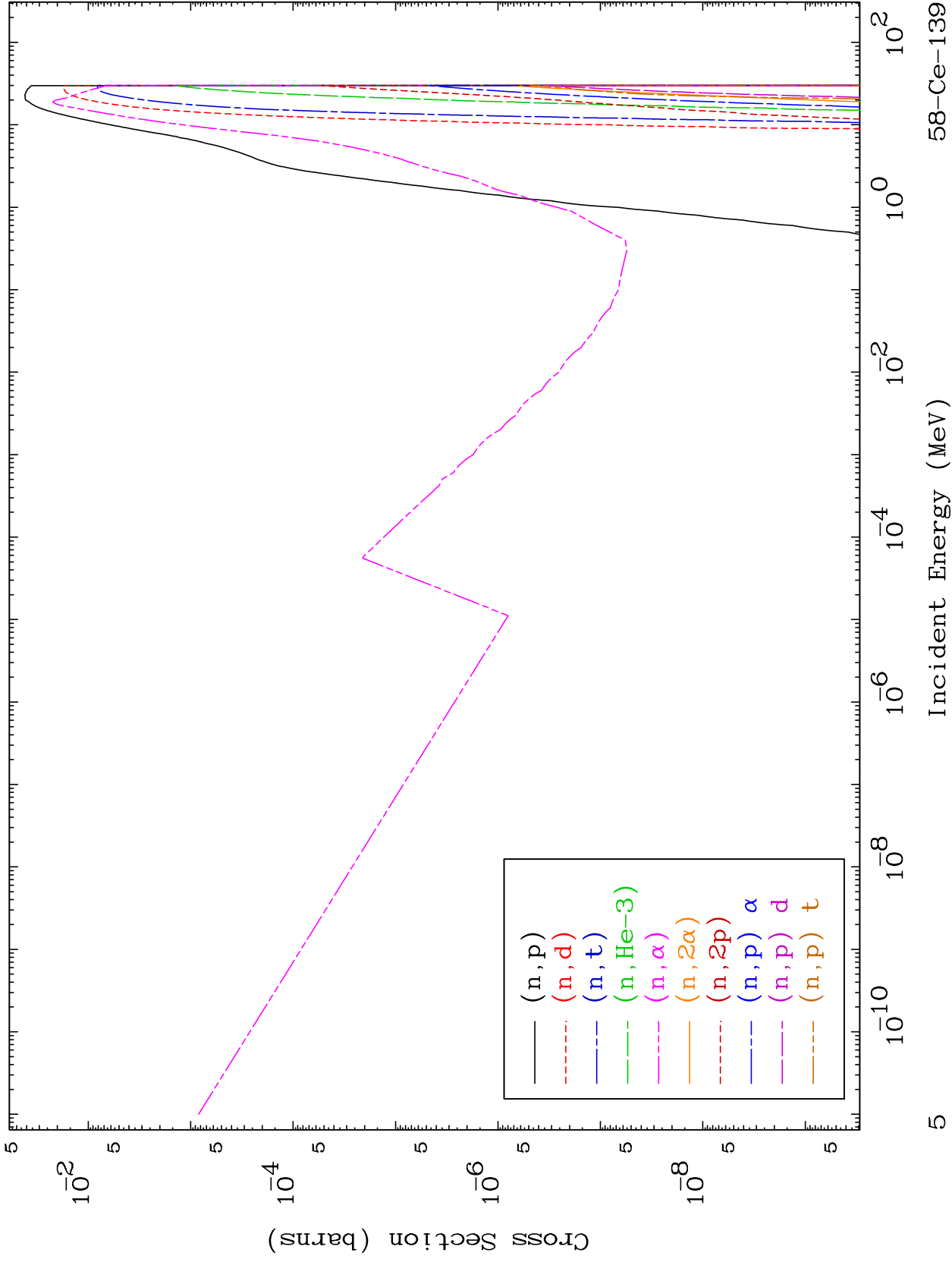


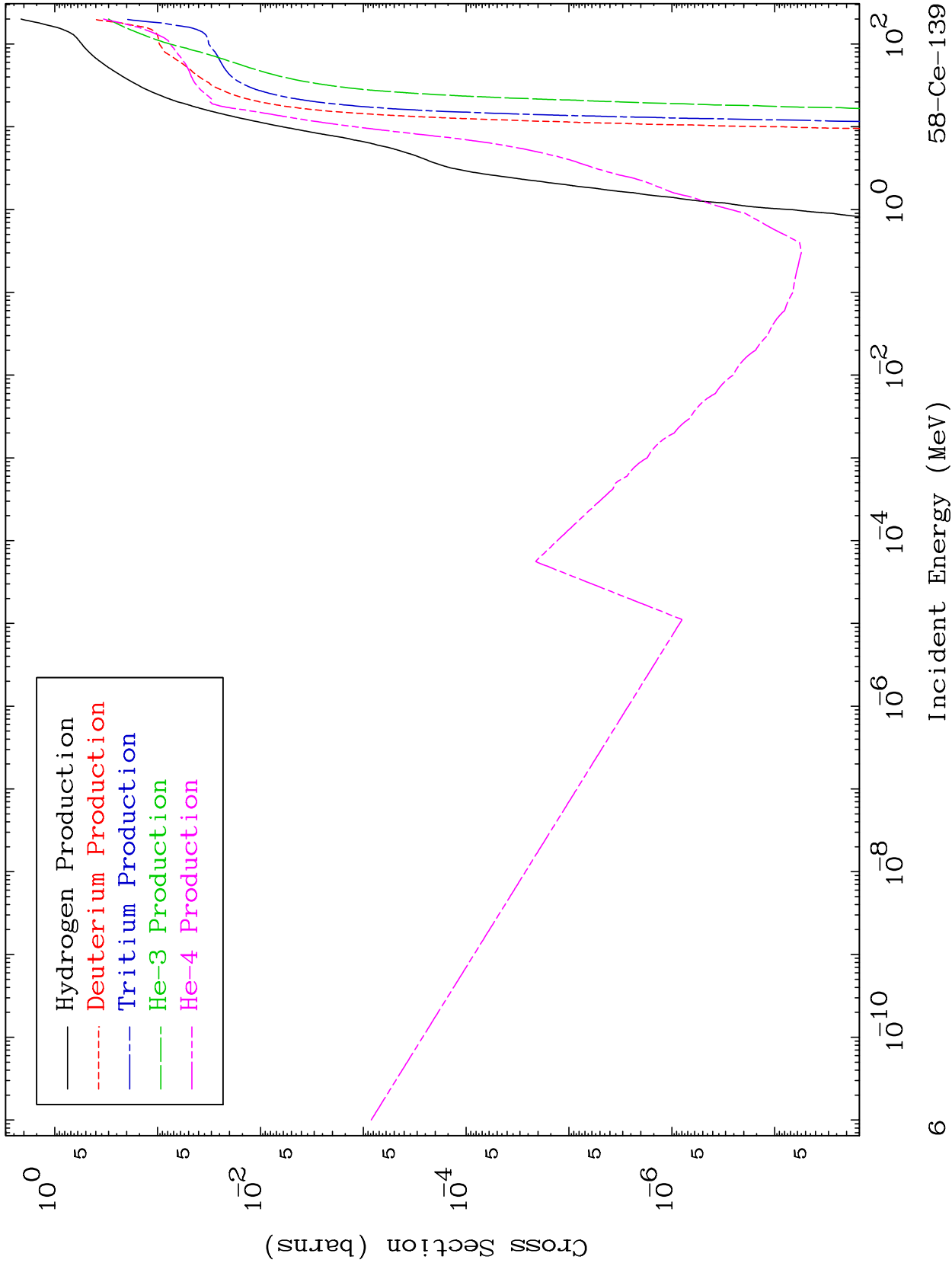
MAT 5834

Charged Particle
293 Kelvin Cross Sections

58-Ce-139





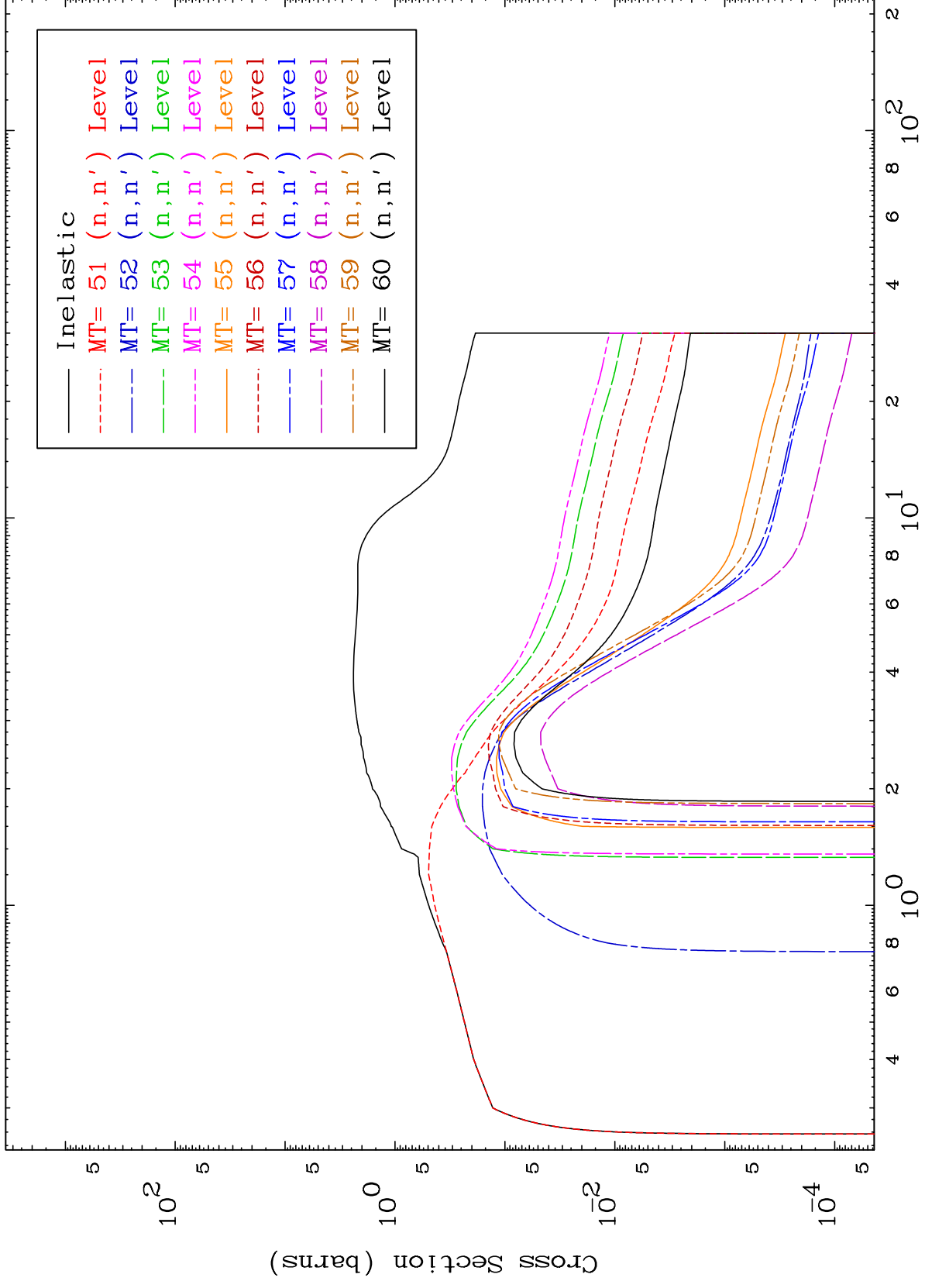


MAT 5834

(n,n') Level

58-Ce-139

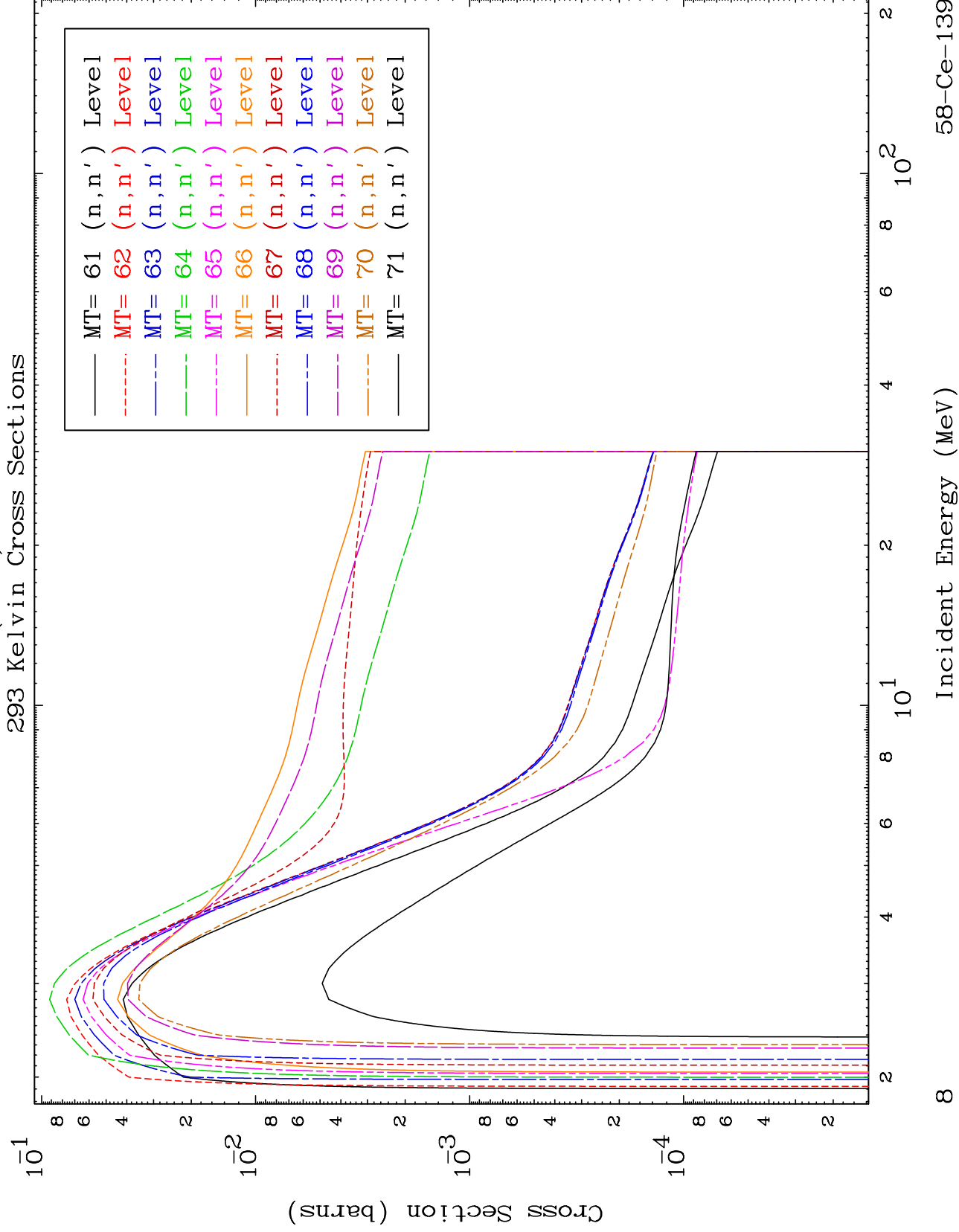
293 Kelvin Cross Sections



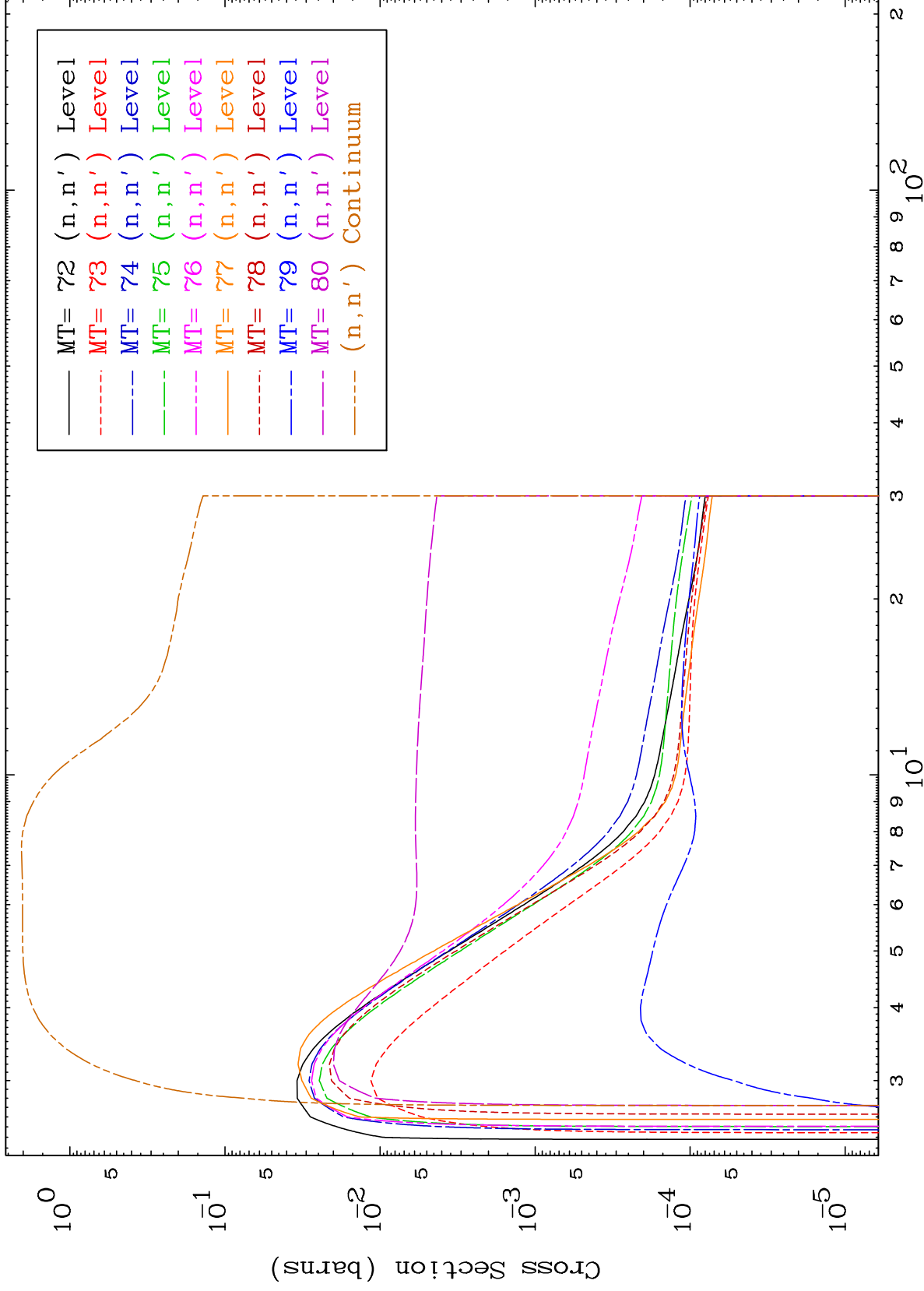
MAT 5834

(n,n') Level

58-Ce-139



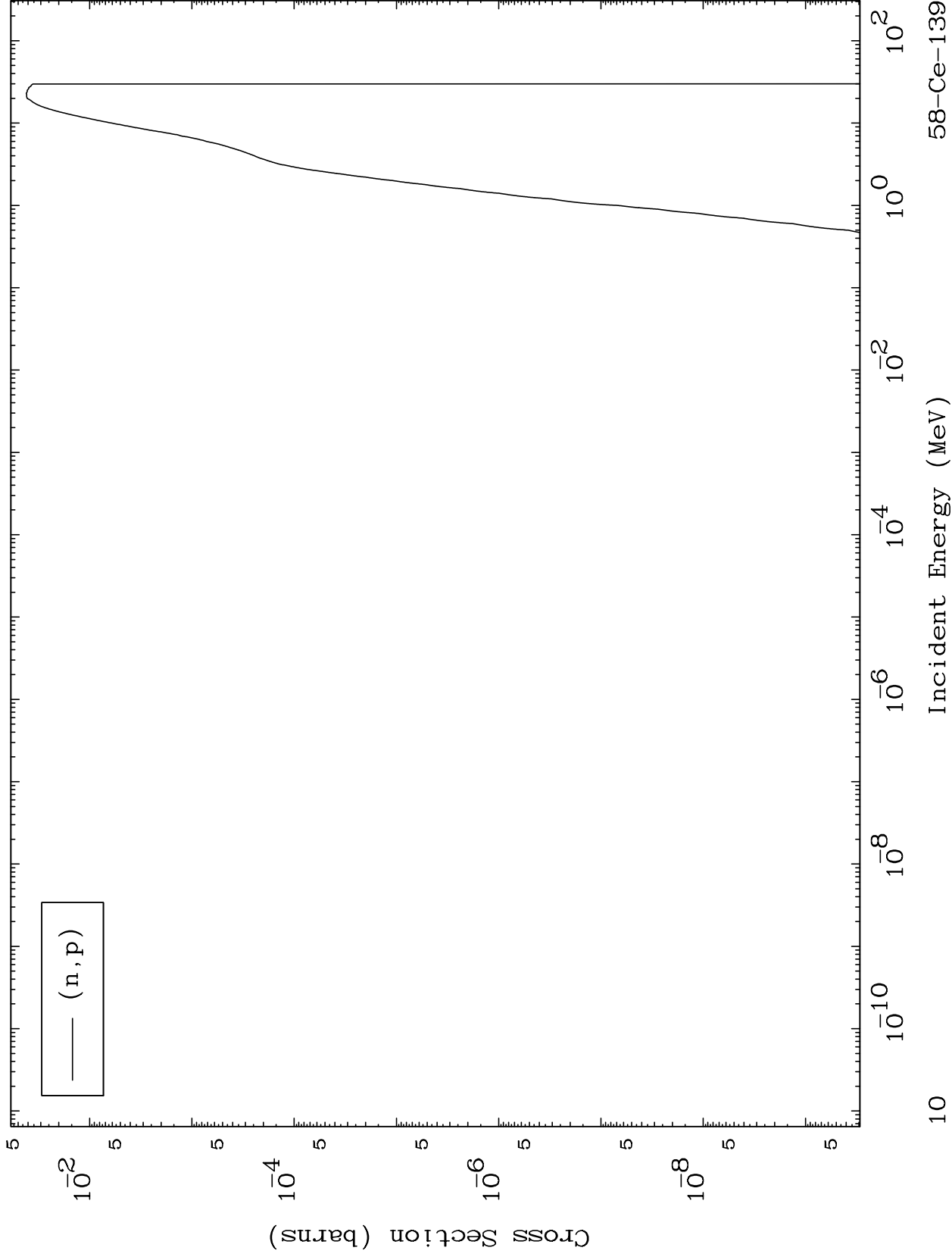
293 Kelvin Cross Sections



MAT 5834

(n,p) Levels
293 Kelvin Cross Sections

58-Ce-139



10

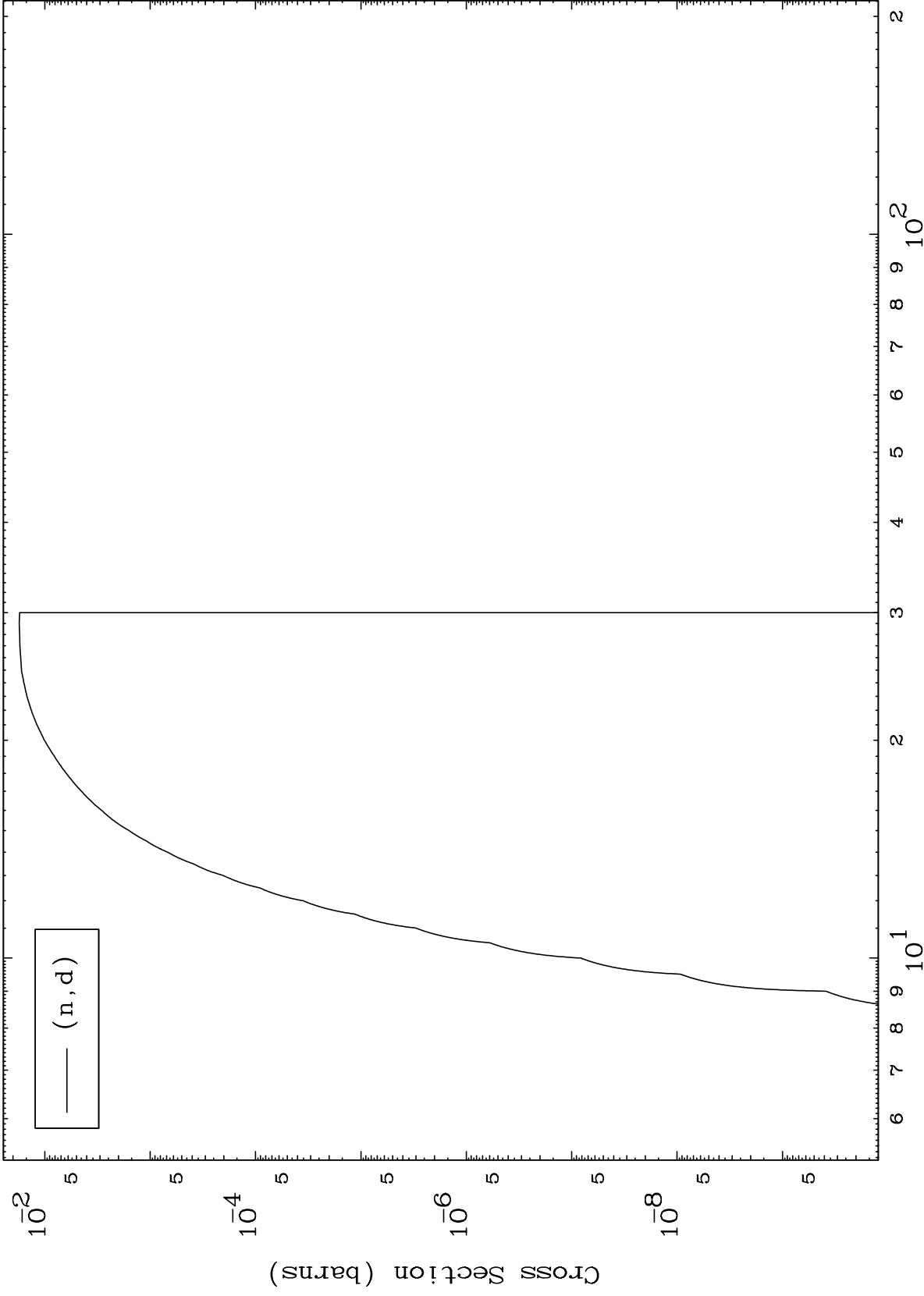
Incident Energy (MeV)

58-Ce-139

MAT 5834

(n,d) Levels
293 Kelvin Cross Sections

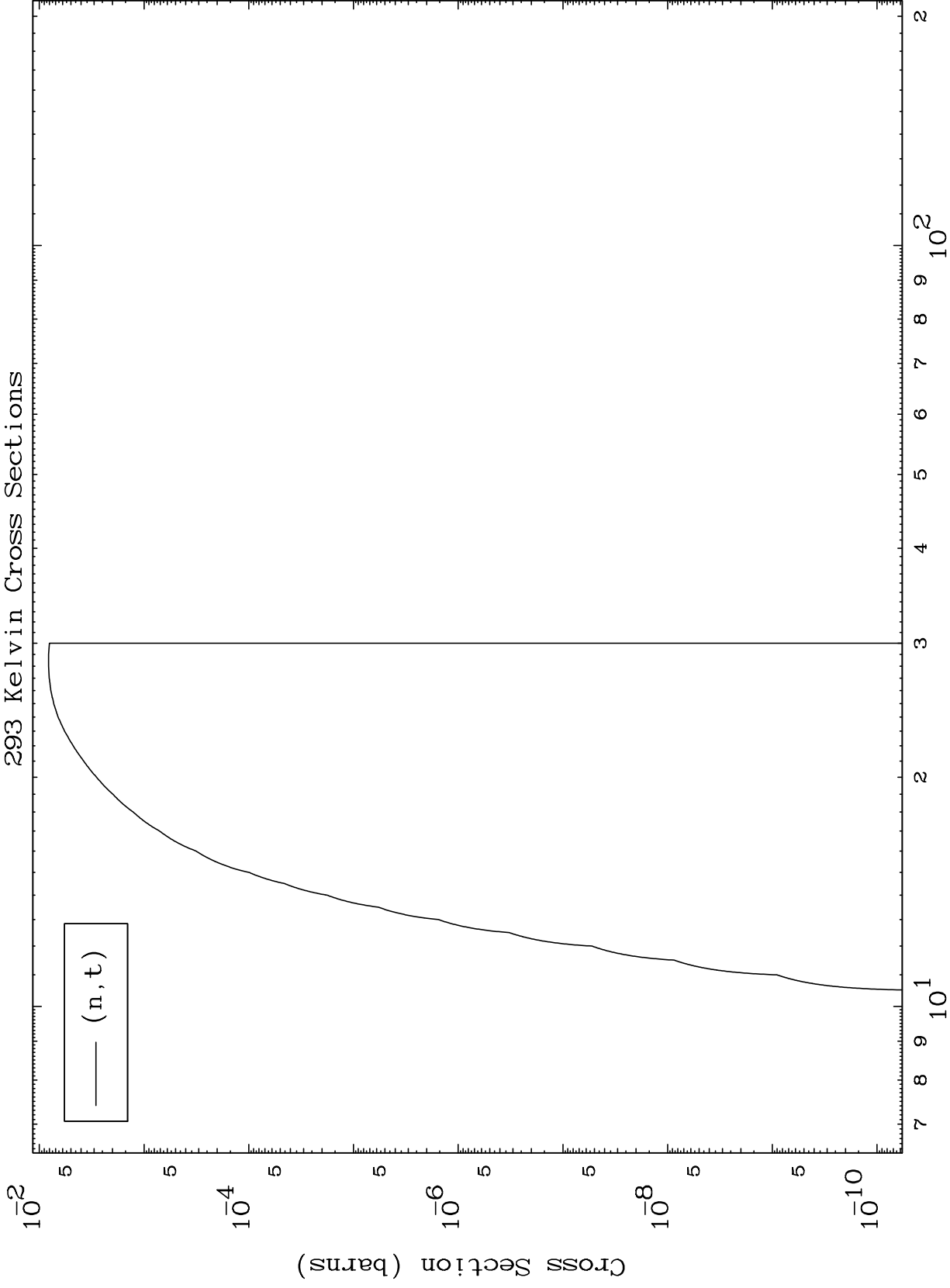
58-Ce-139



MAT 5834

(n,t) Levels
293 Kelvin Cross Sections

58-Ce-139



12

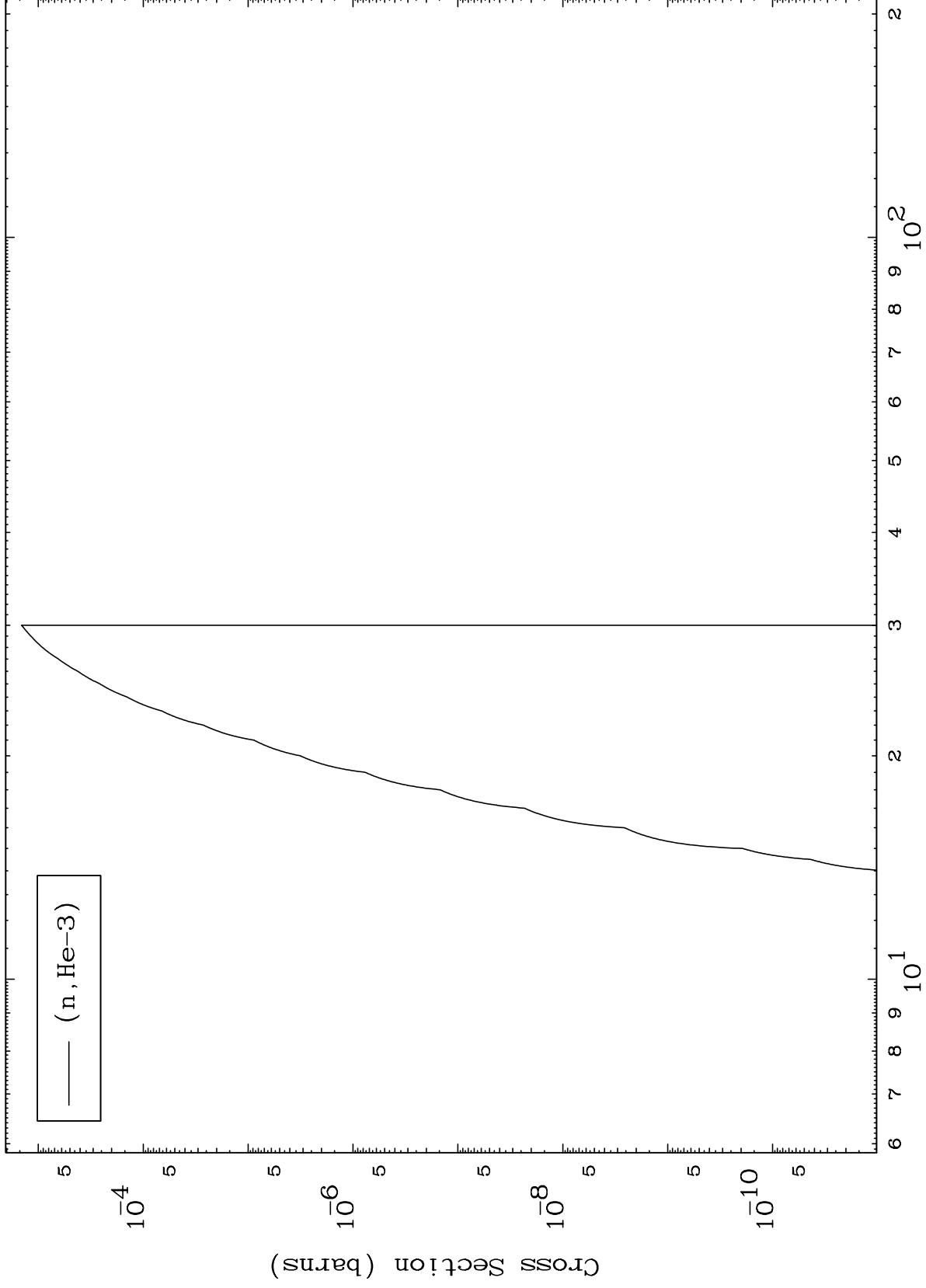
Incident Energy (MeV)

58-Ce-139

MAT 5834

(n,He3) Levels
293 Kelvin Cross Sections

58-Ce-139



13

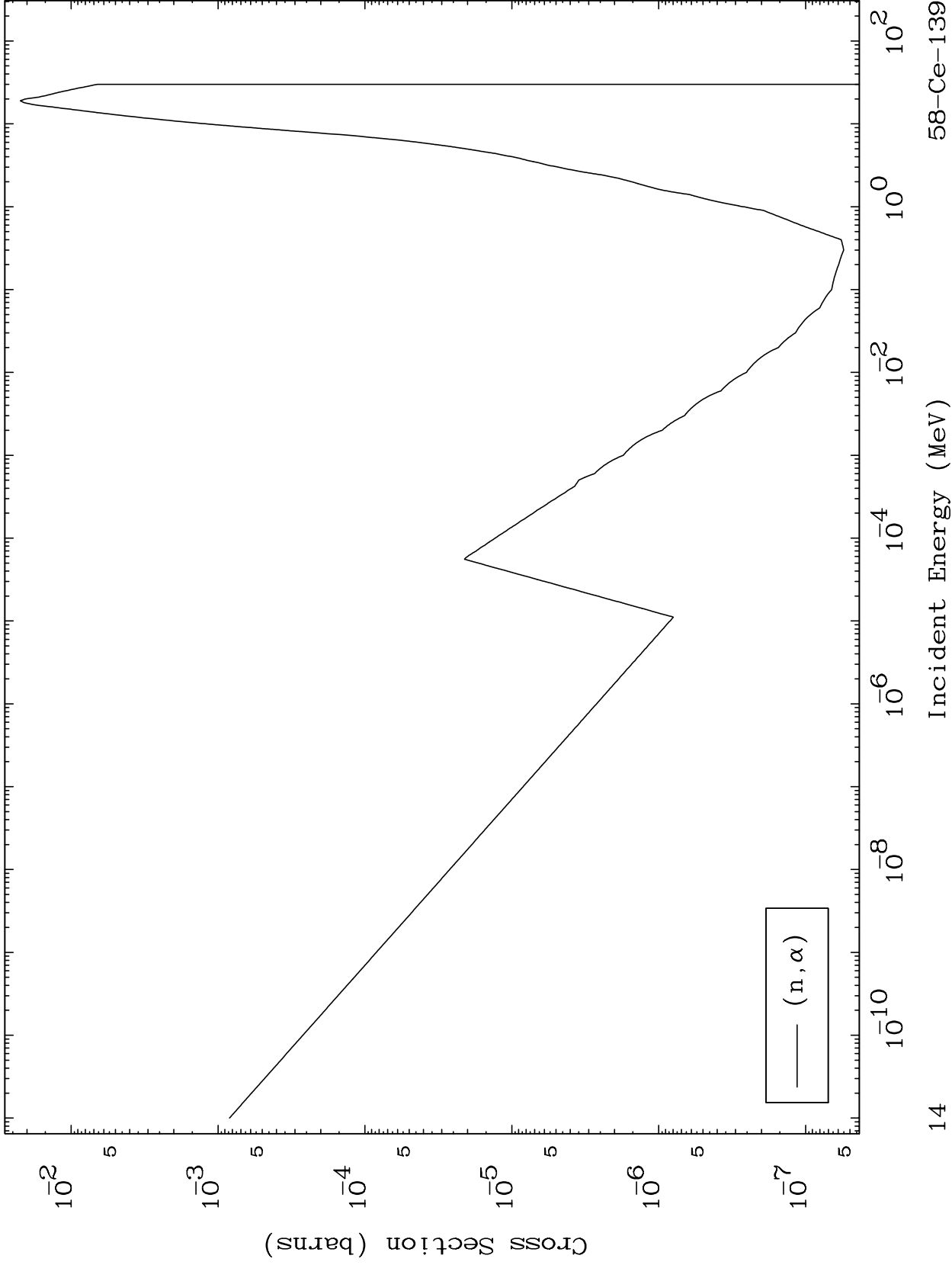
Incident Energy (MeV)

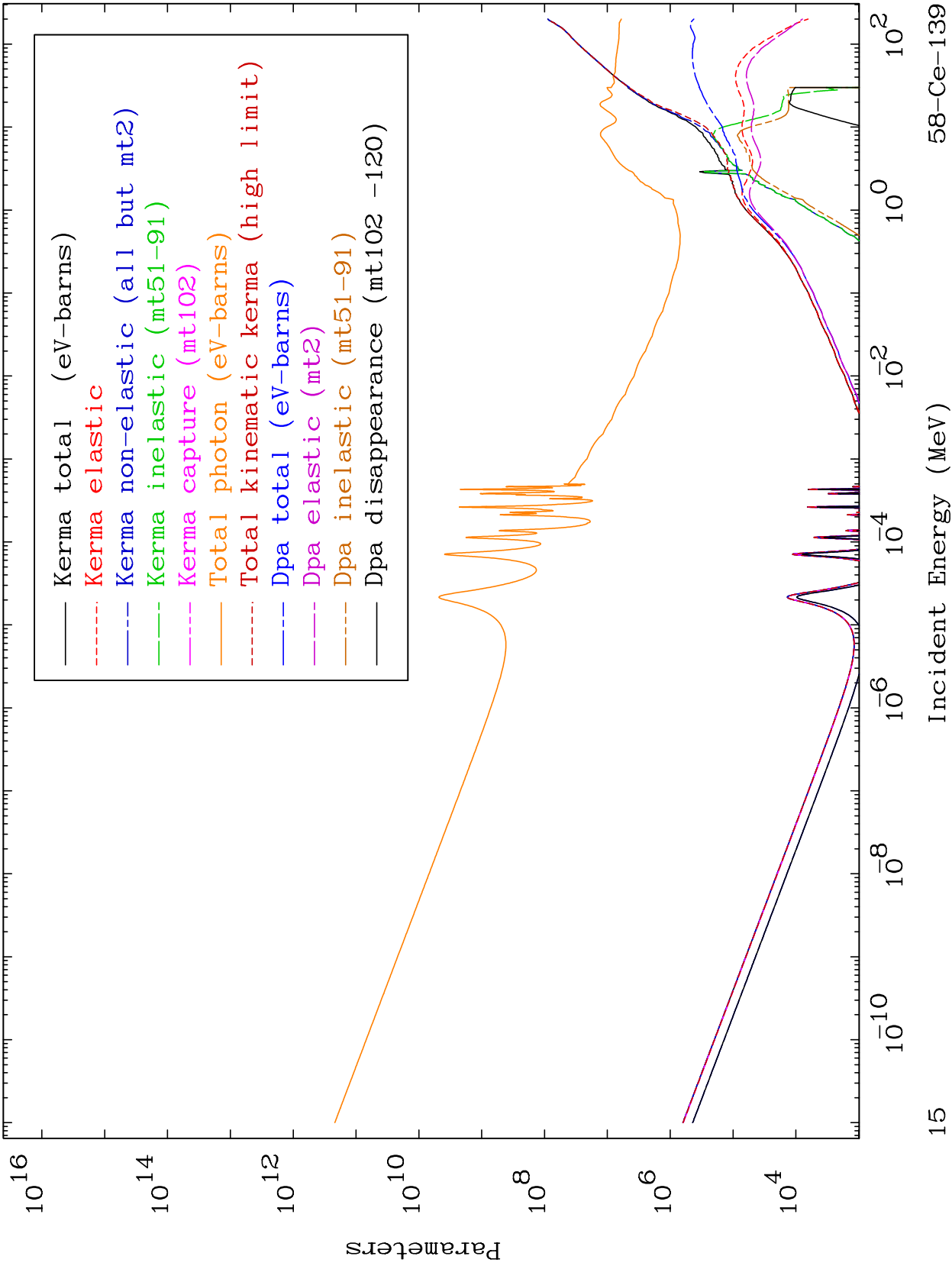
58-Ce-139

MAT 5834

(n, α) Levels
293 Kelvin Cross Sections

58-Ce-139

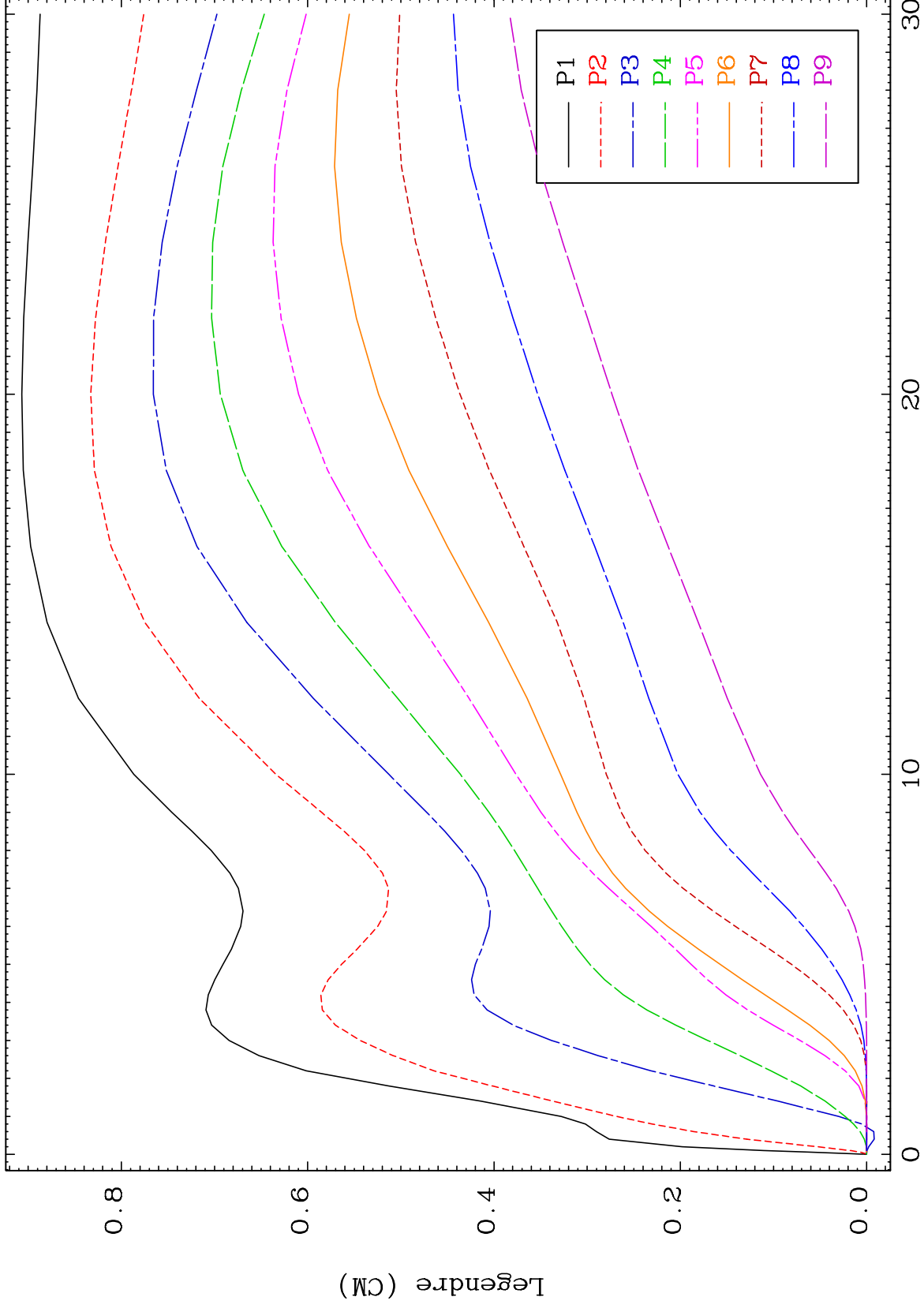




MAT 5834

Elastic Legendre Coefficients

58-Ce-139



16

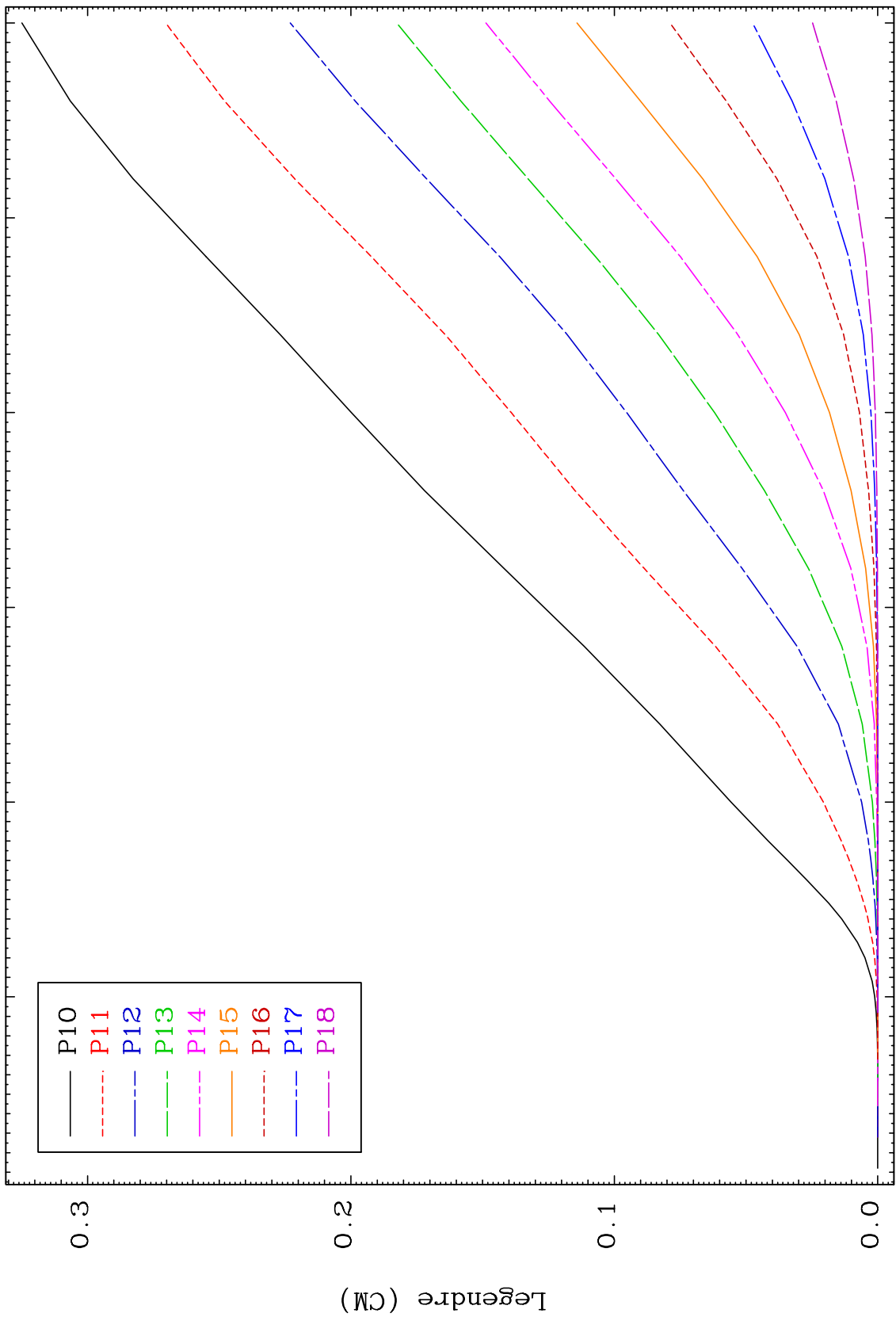
Incident Energy (MeV)

58-Ce-139

MAT 5834

Elastic Legendre Coefficients

58-Ce-139



17

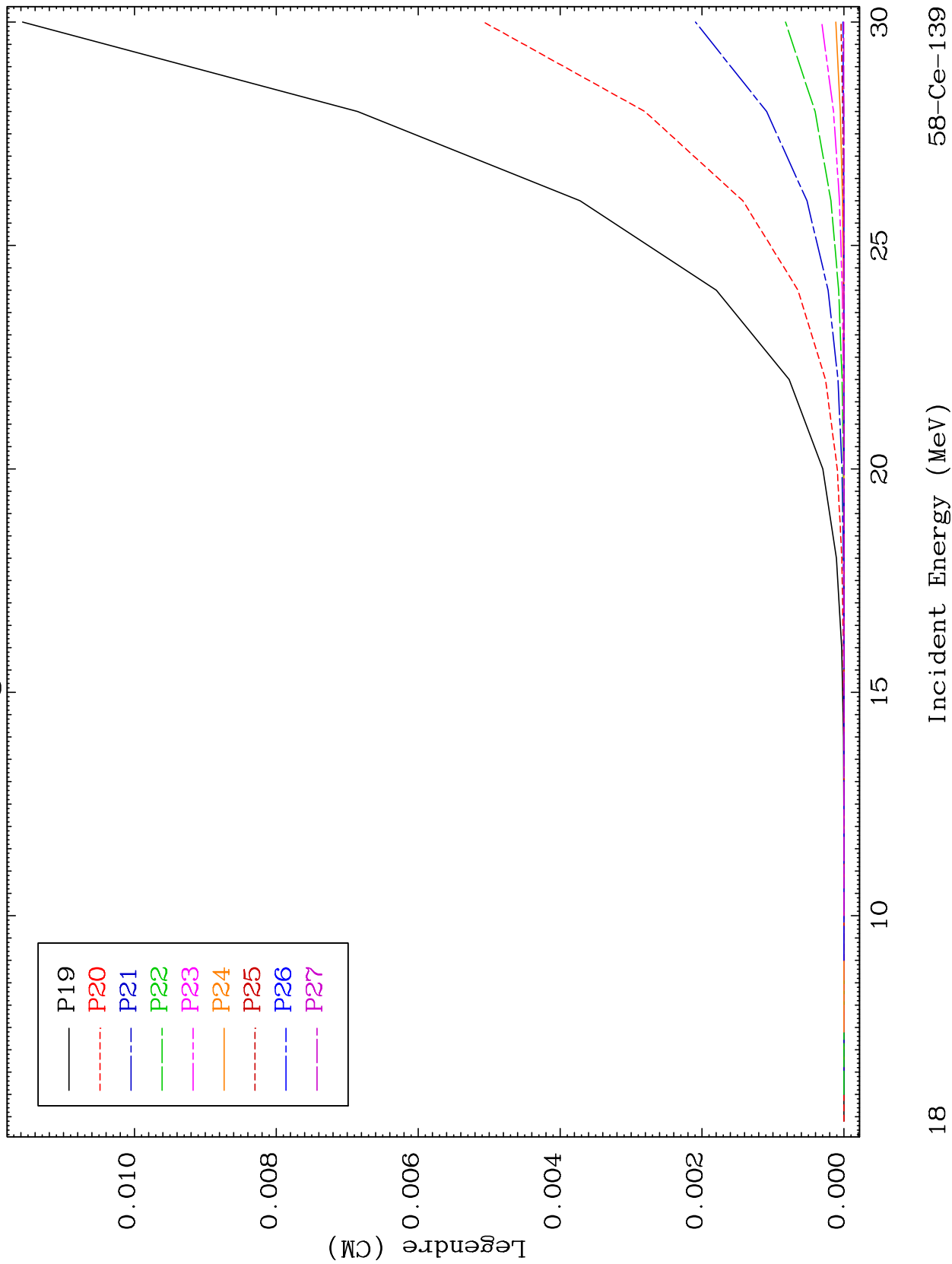
Incident Energy (MeV)

58-Ce-139

MAT 5834

Elastic Legendre Coefficients

58-Ce-139

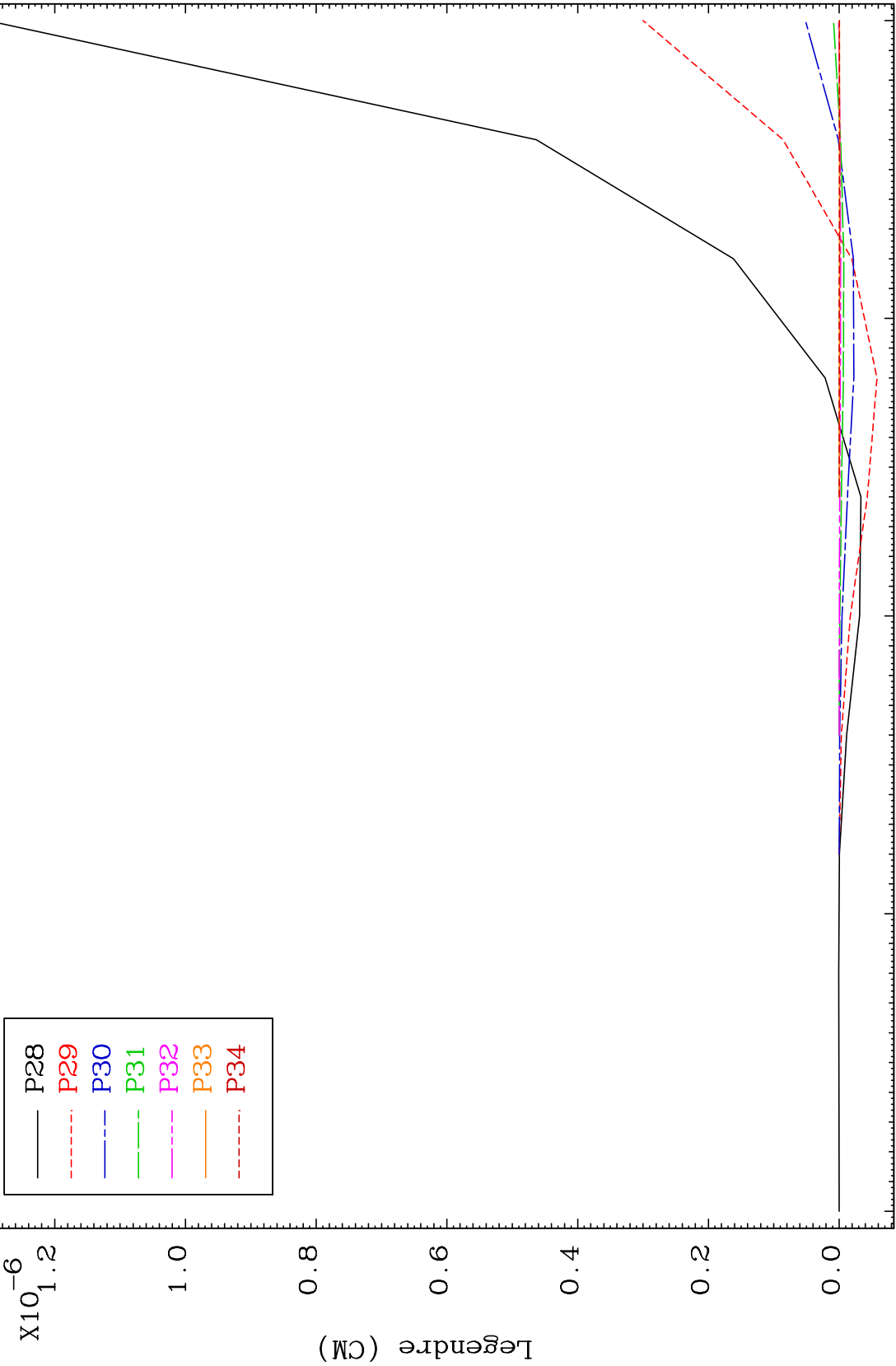
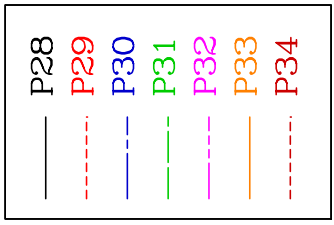


- P19
- P20
- P21
- P22
- P23
- P24
- P25
- P26
- P27

MAT 5834

Elastic Legendre Coefficients

58-Ce-139



58-Ce-139

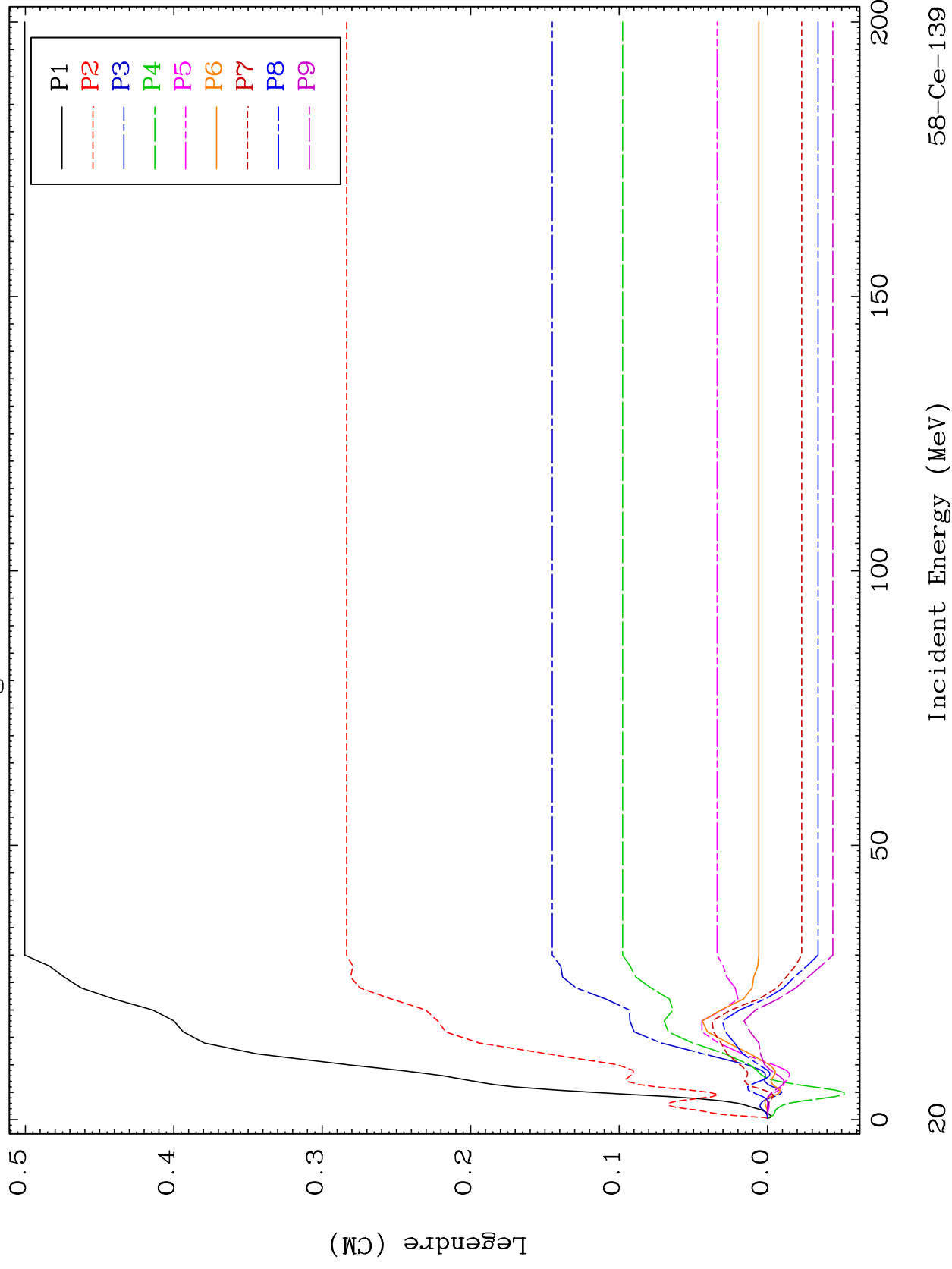
Incident Energy (MeV)

19

MAT 5834

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

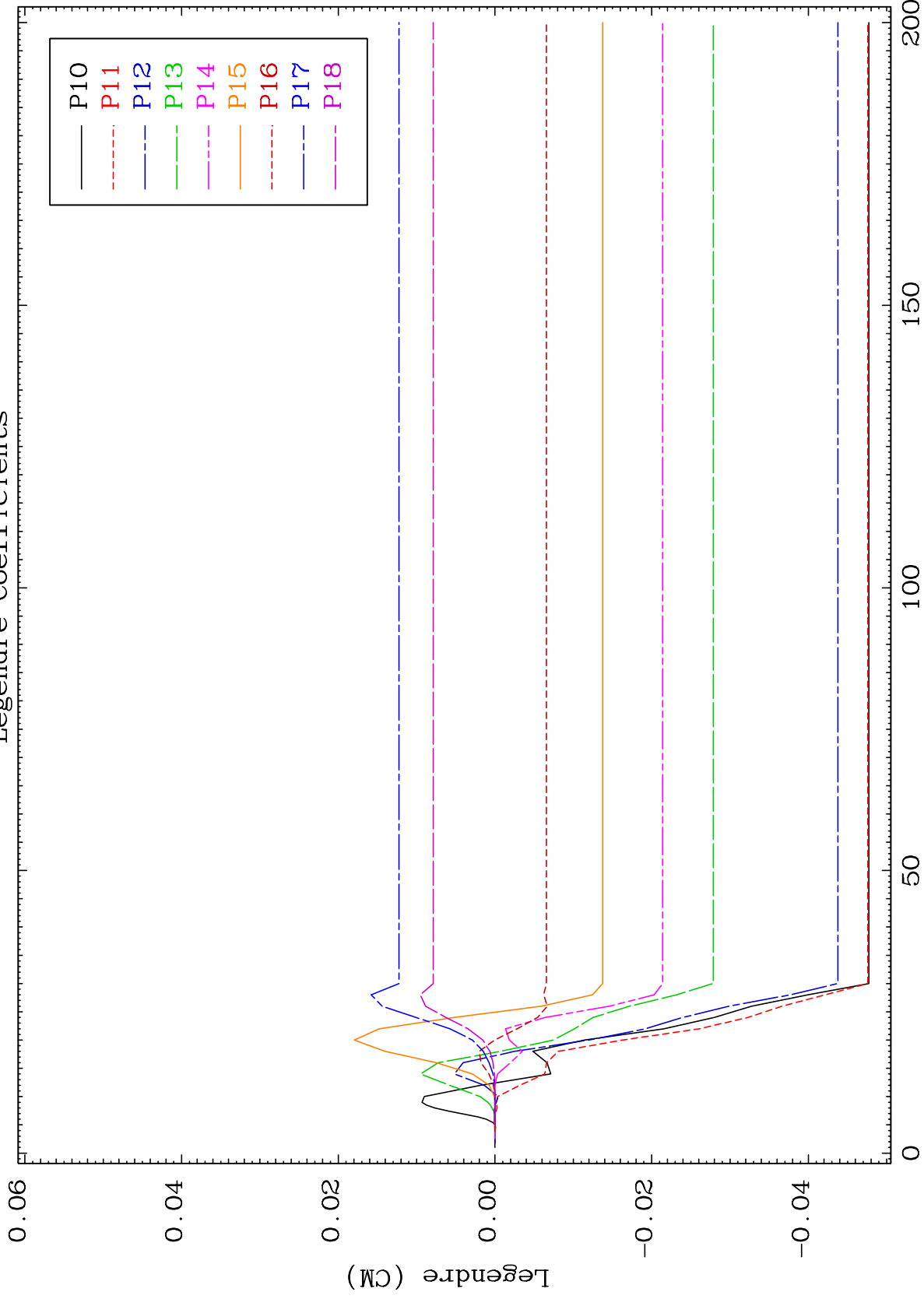
58-Ce-139



MAT 5834

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

58-Ce-139



21

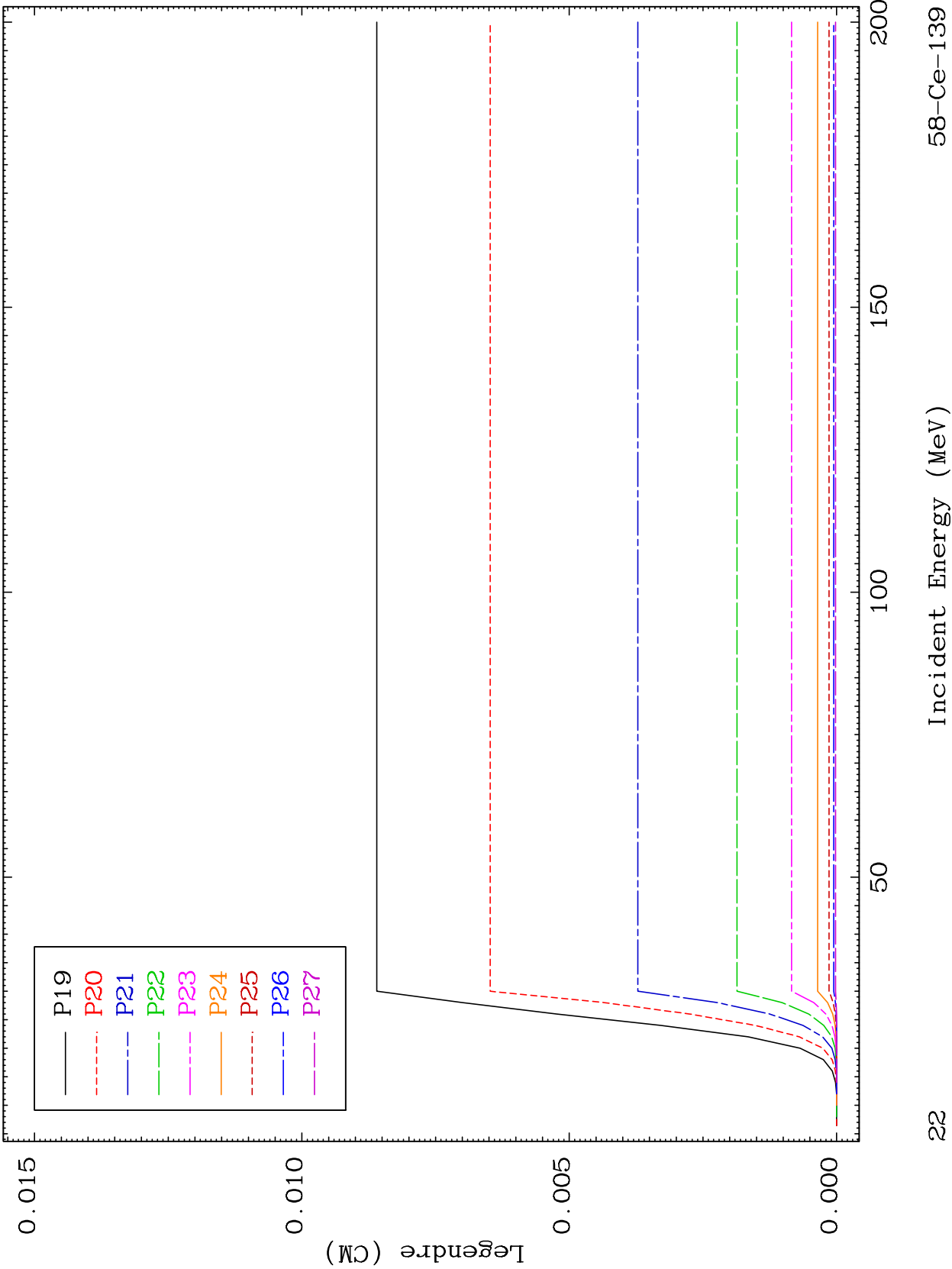
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



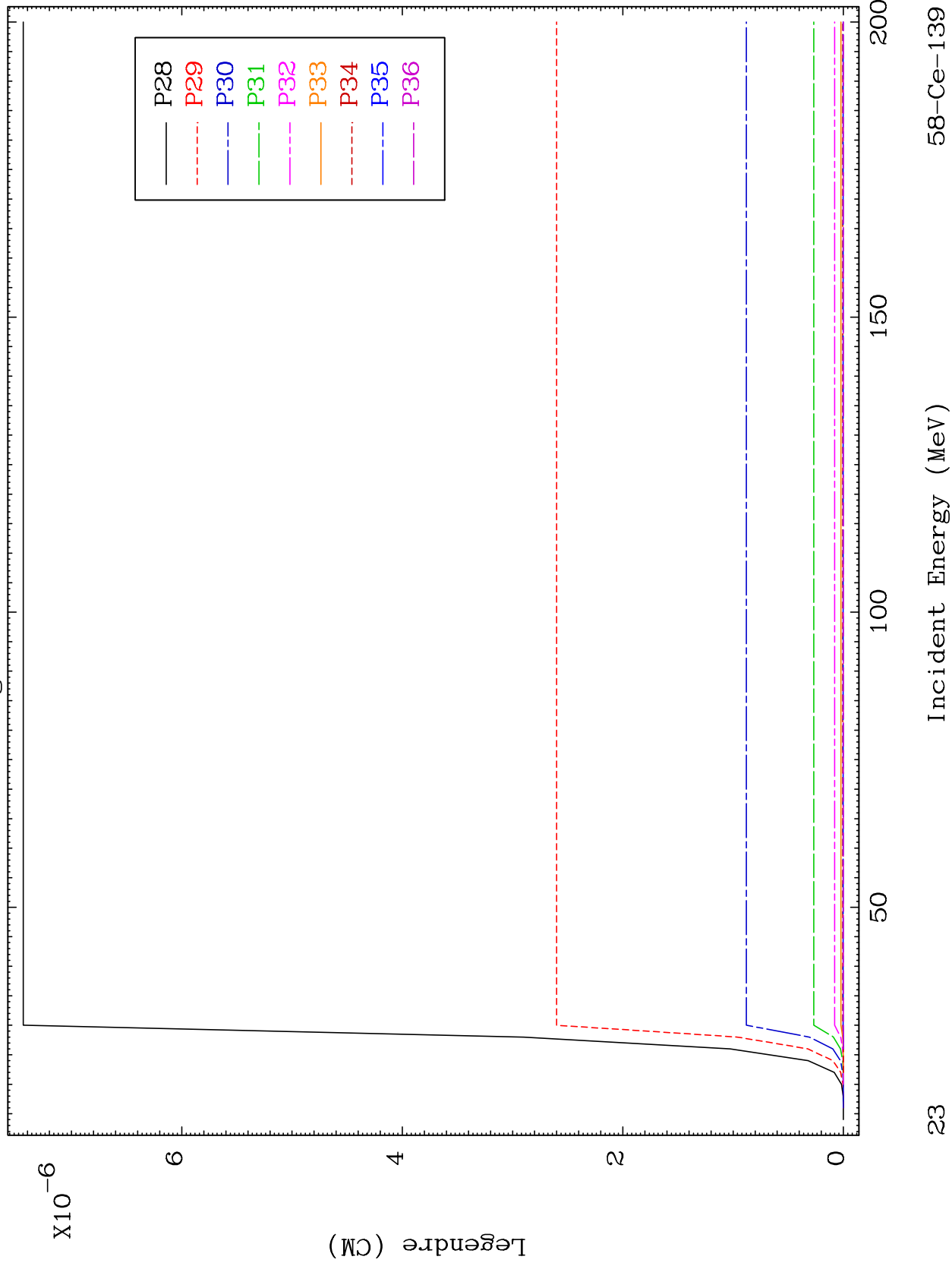
22

58-Ce-139

MAT 5834

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

58-Ce-139

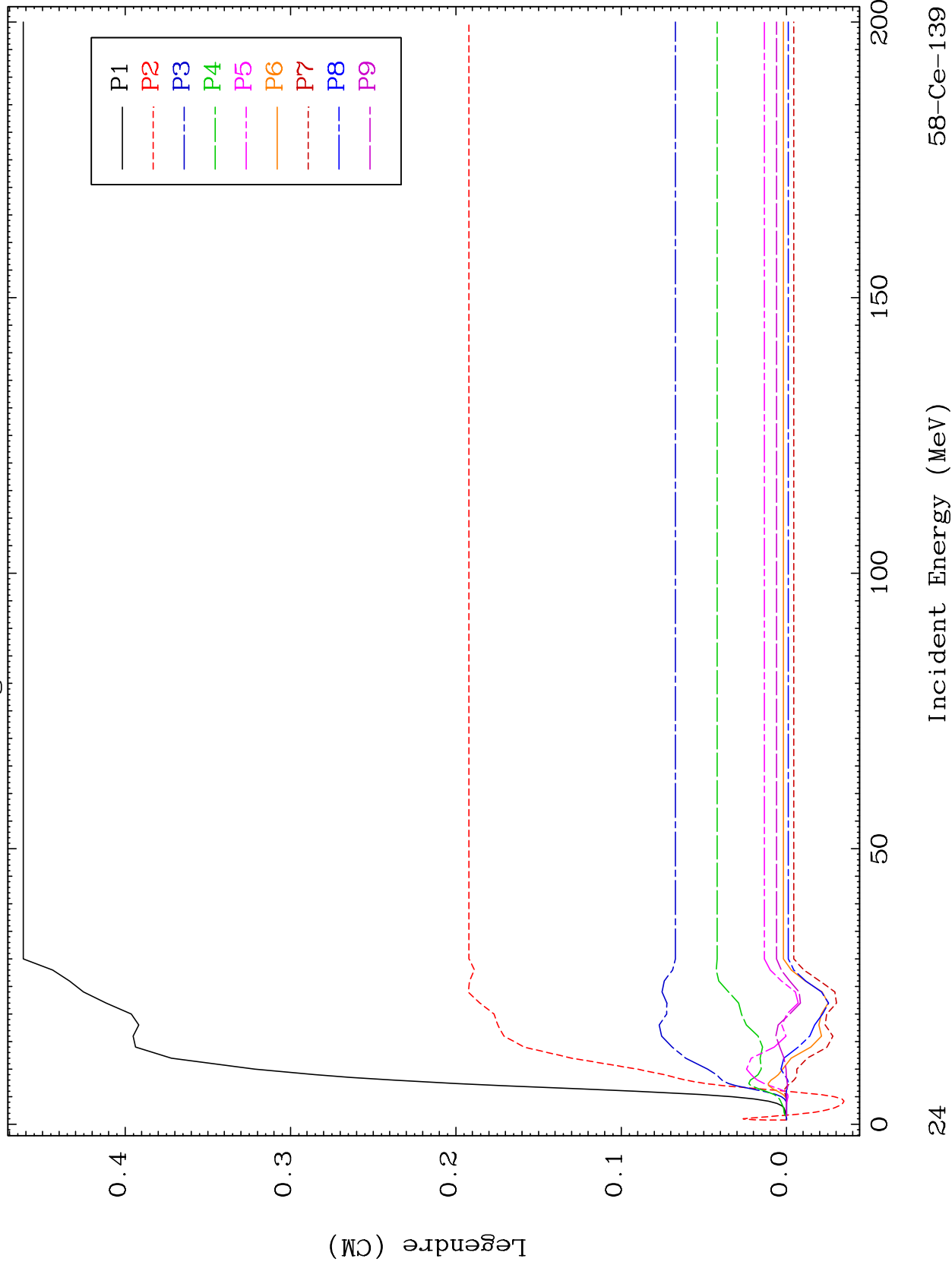


23

MAT 5834

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

58-Ce-139



58-Ce-139

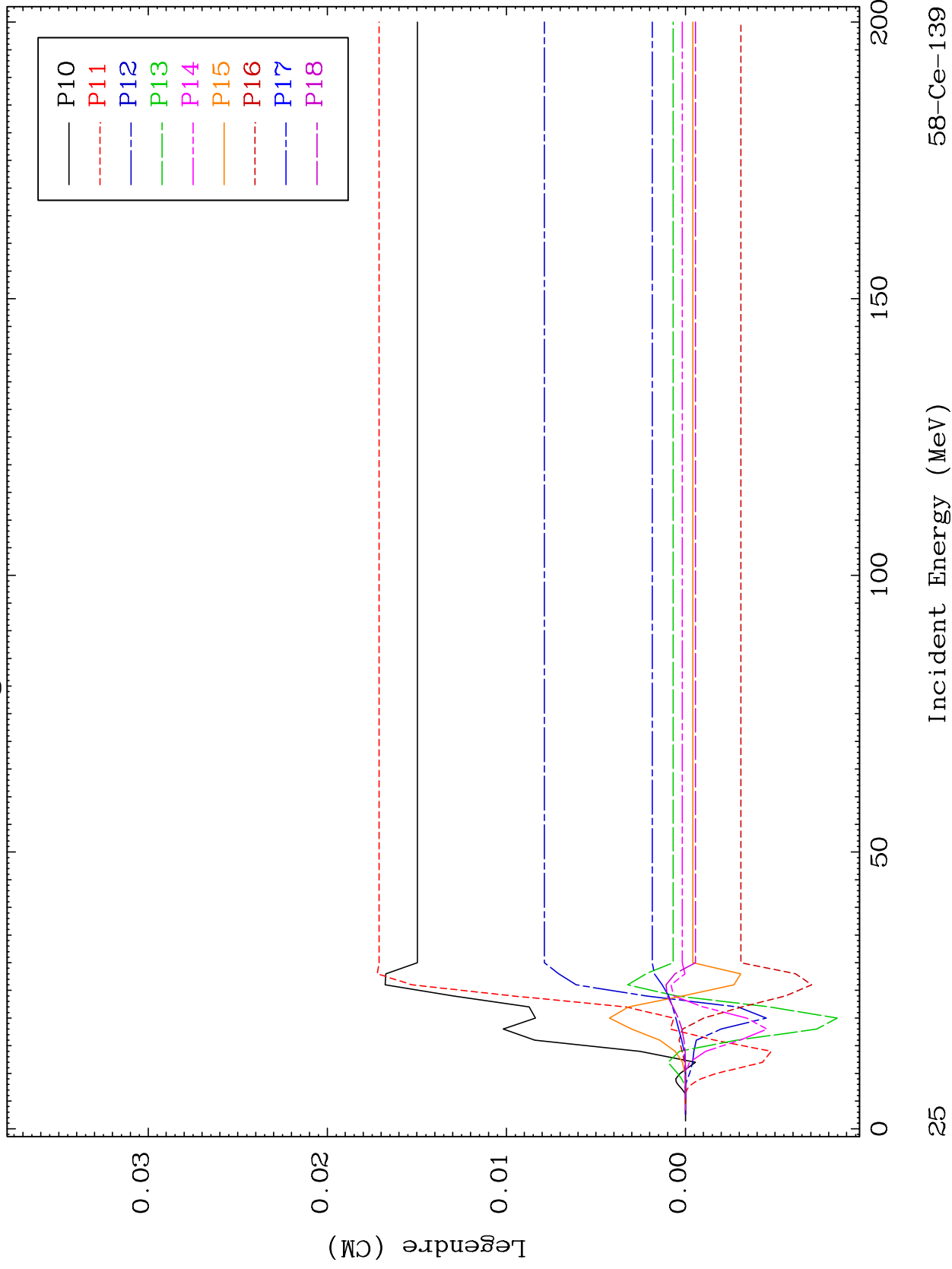
Incident Energy (MeV)

24

MAT 5834

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

58-Ce-139



58-Ce-139

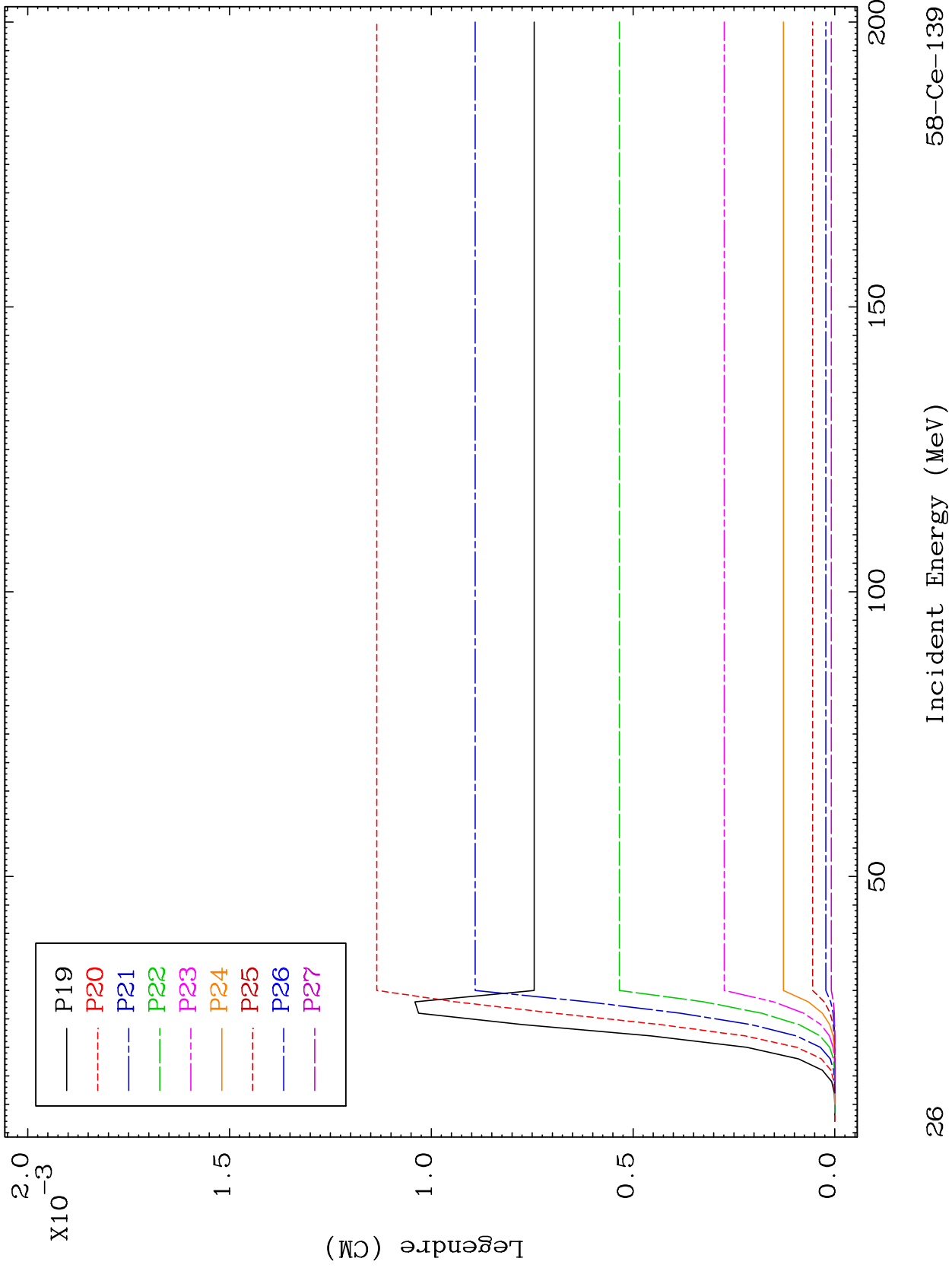
Incident Energy (MeV)

25

MAT 5834

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

58-Ce-139



26

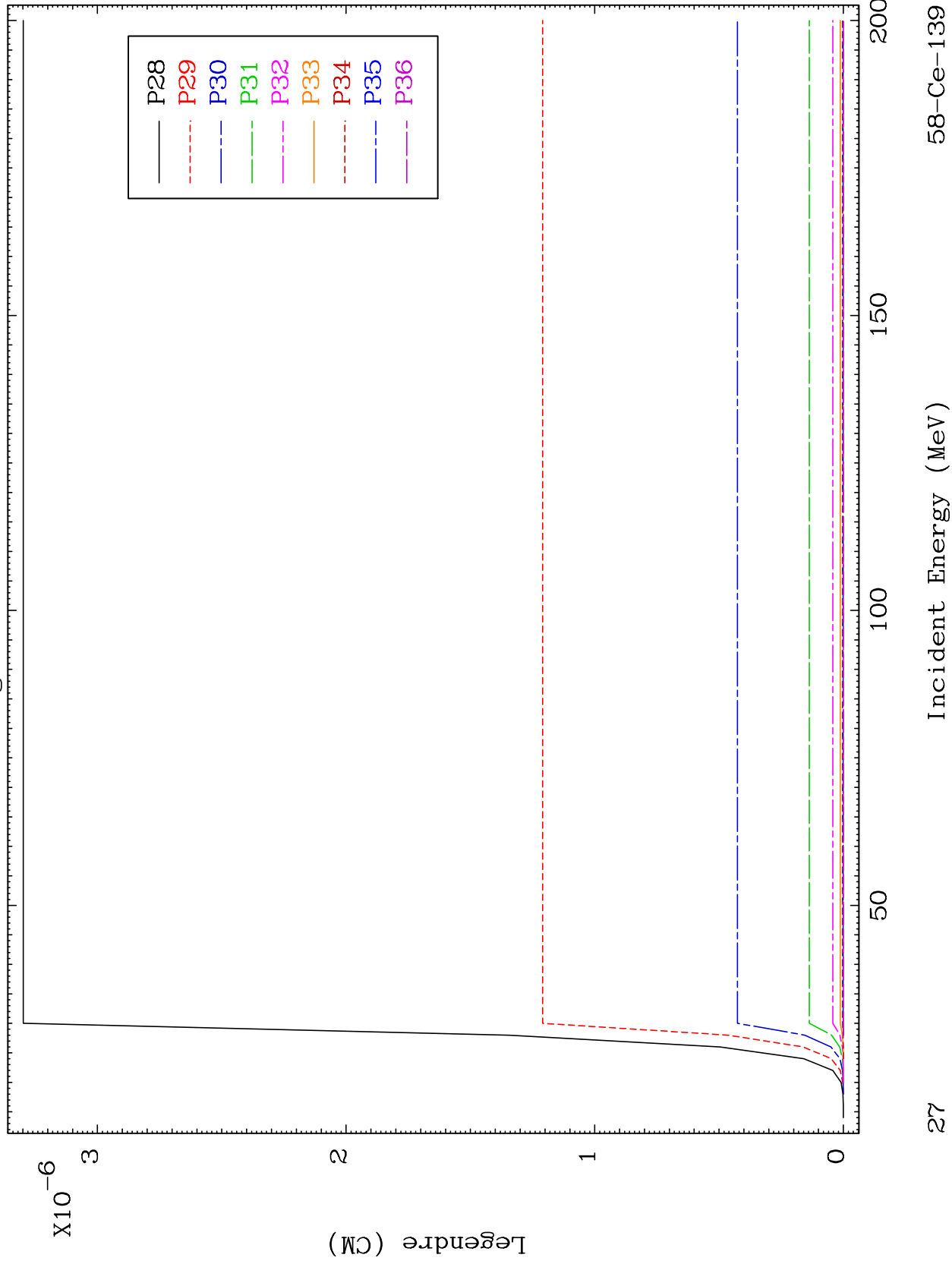
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139

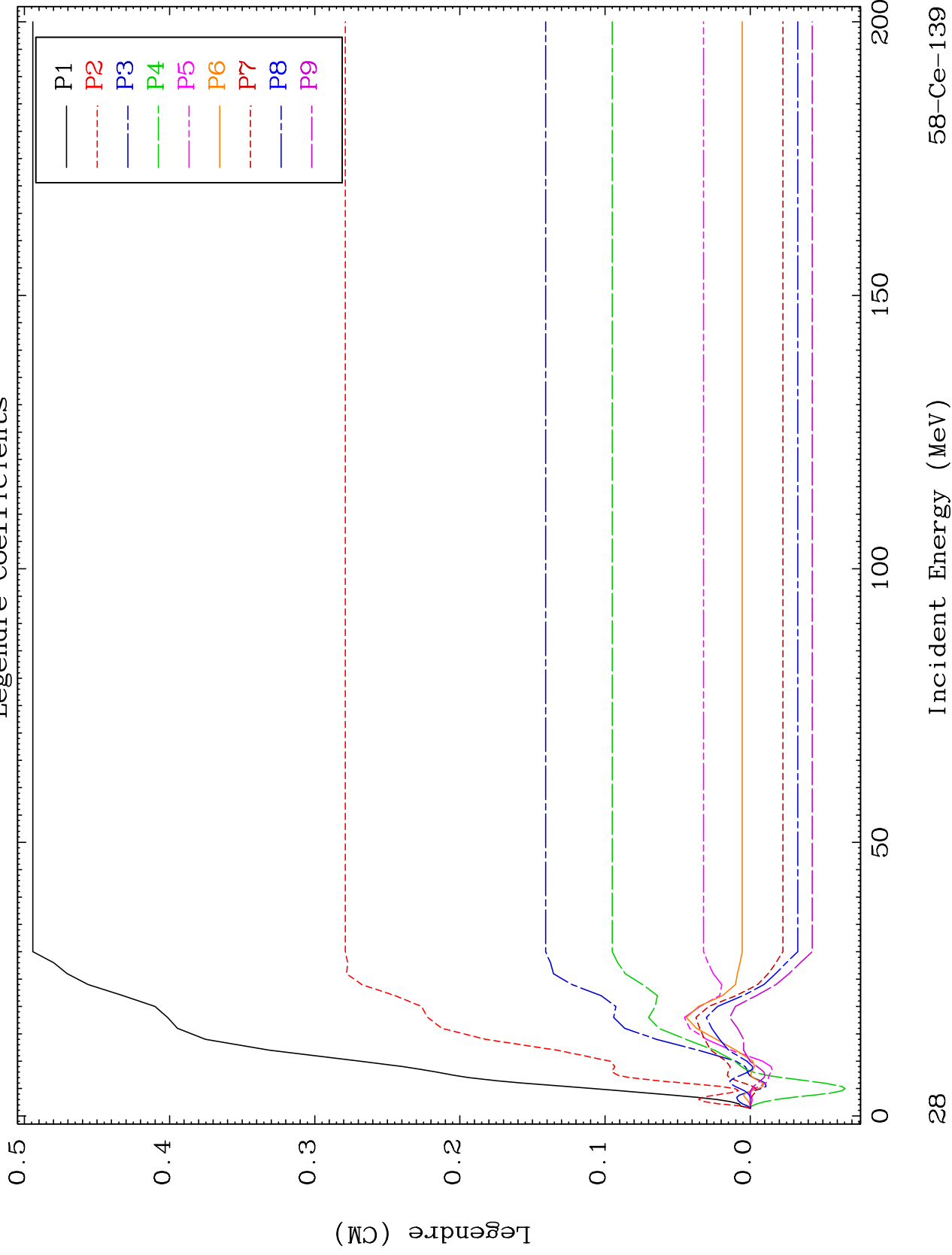


27

MAT 5834

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

58-Ce-139



58-Ce-139

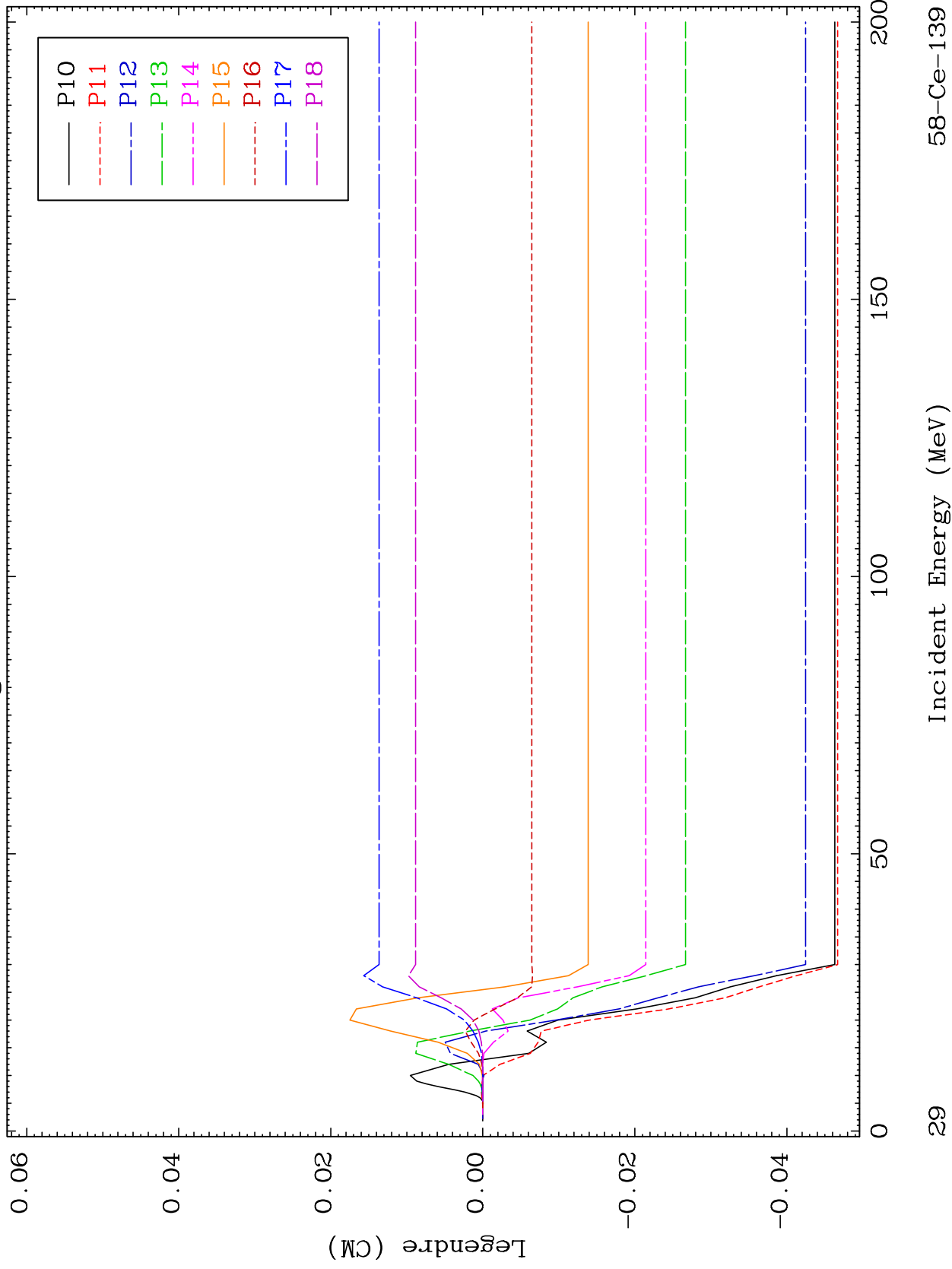
Incident Energy (MeV)

28

MAT 5834

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

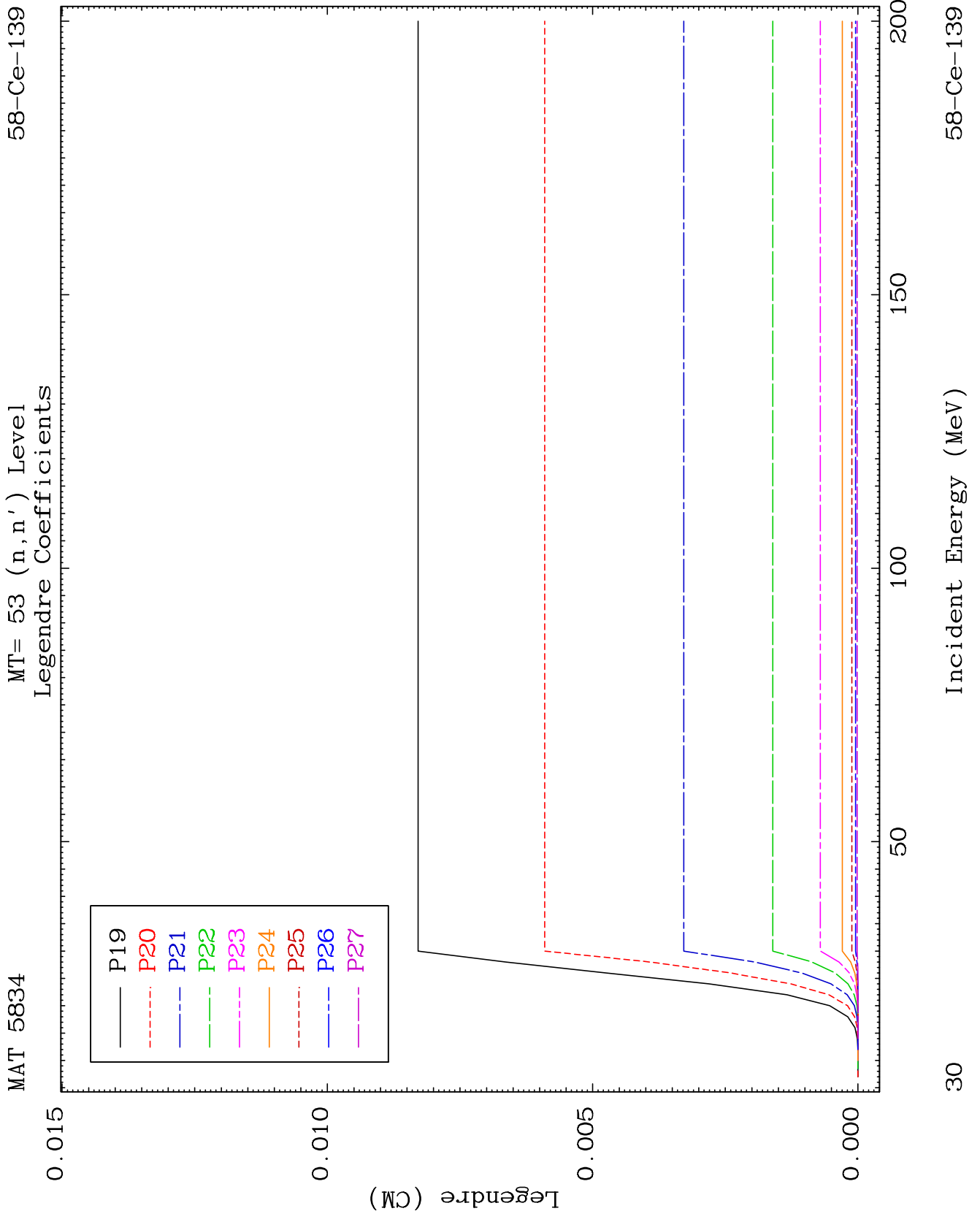
58-Ce-139



58-Ce-139

Incident Energy (MeV)

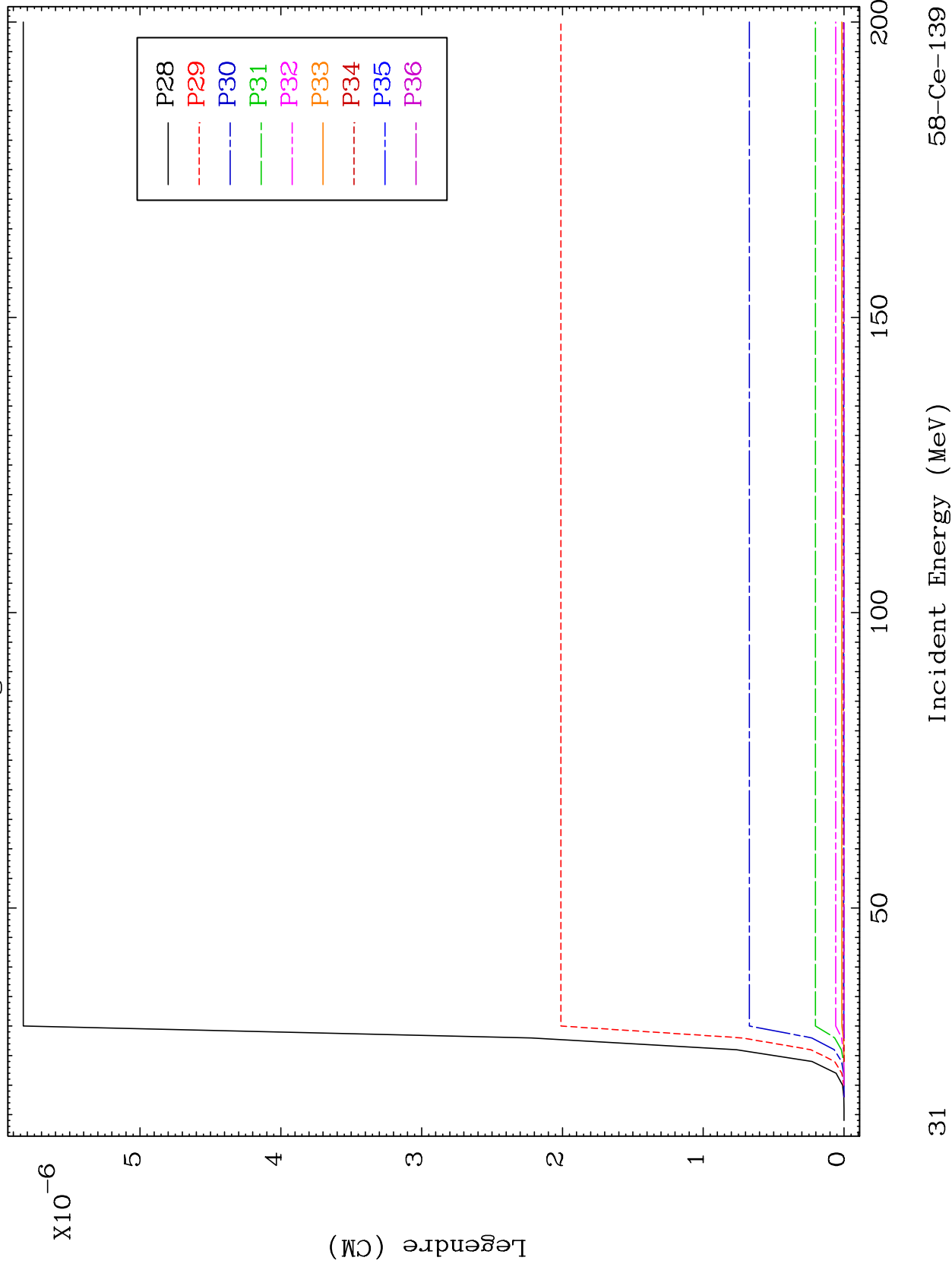
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MAT 5834

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

58-Ce-139



31

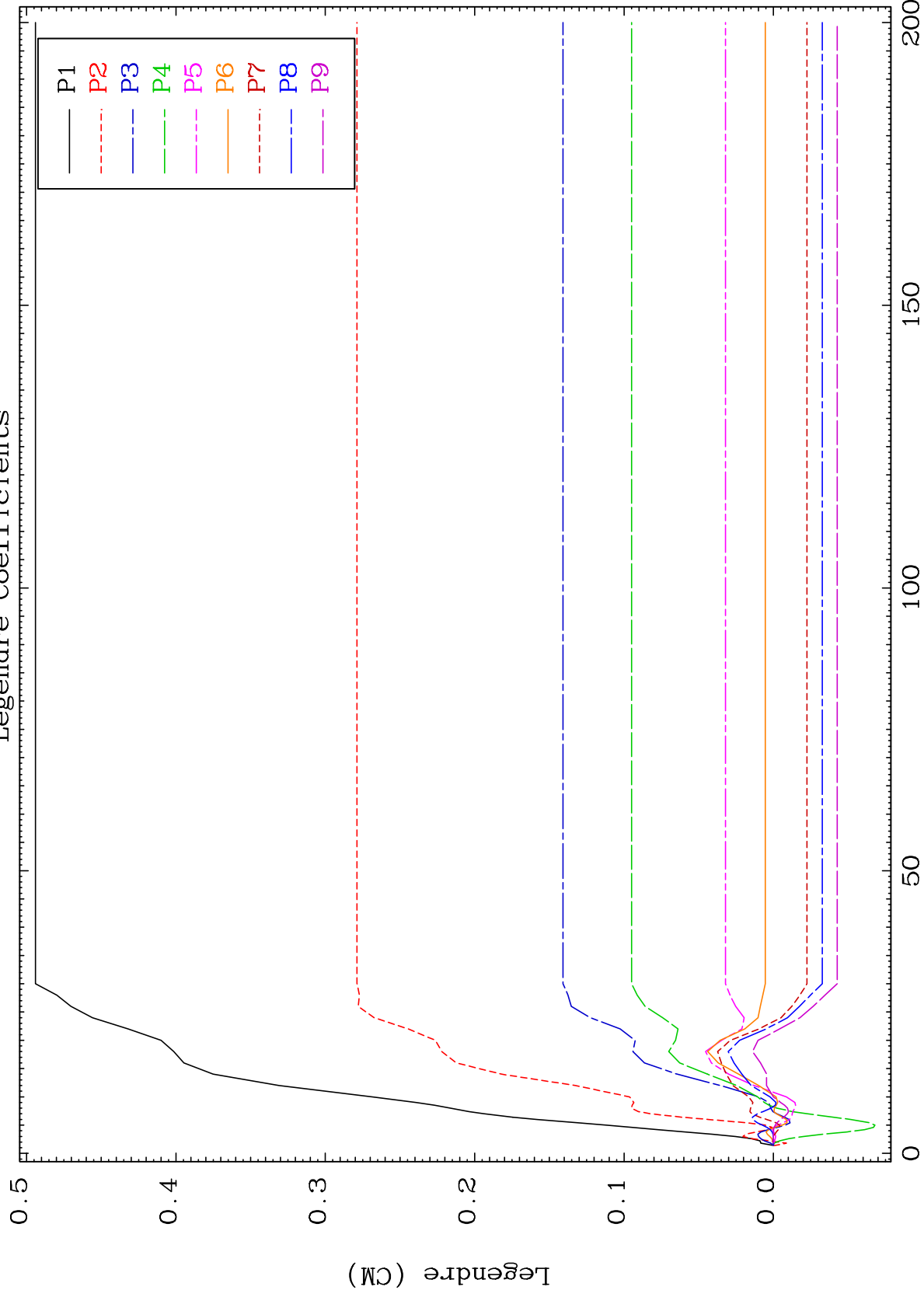
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



32

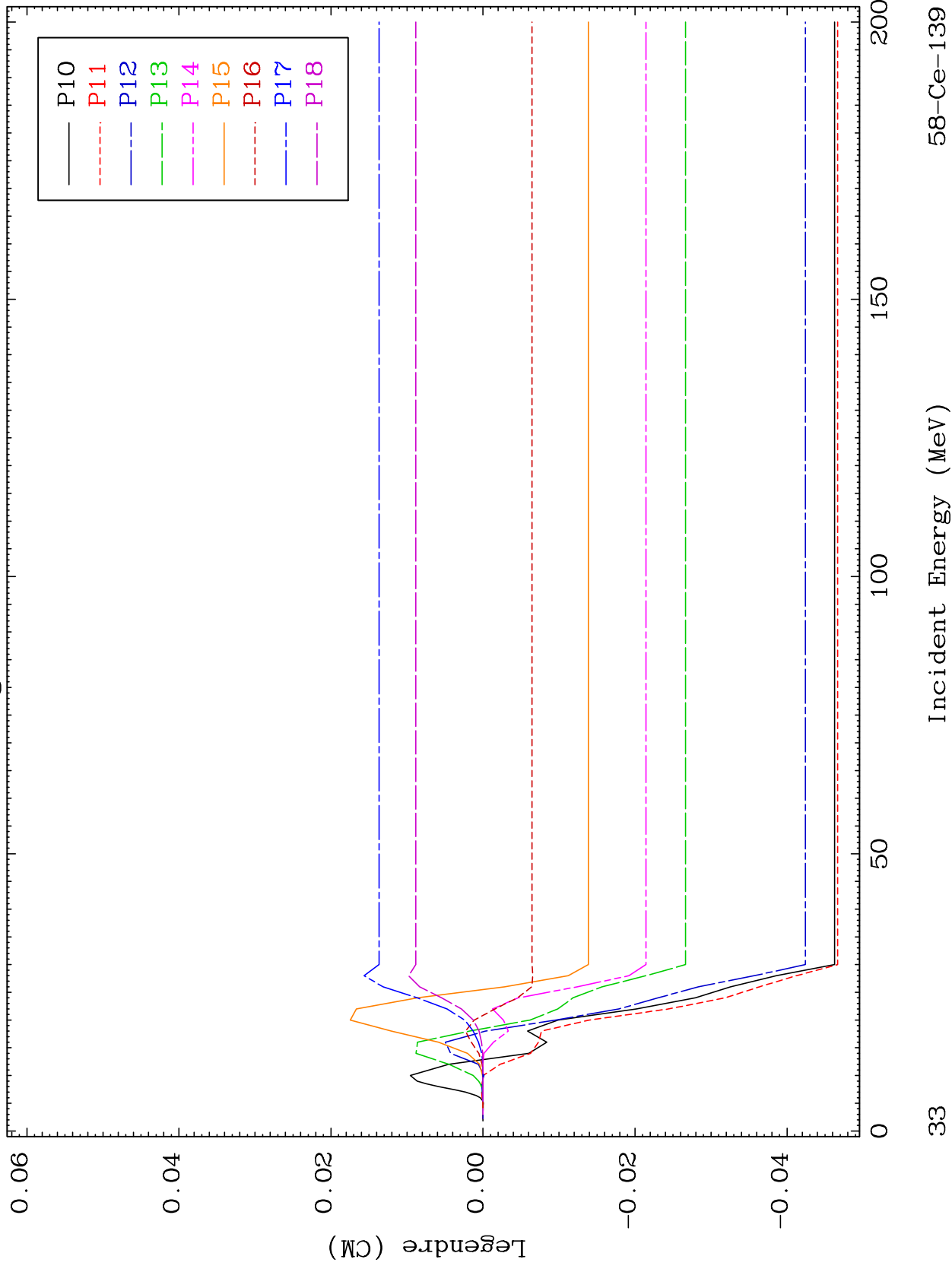
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

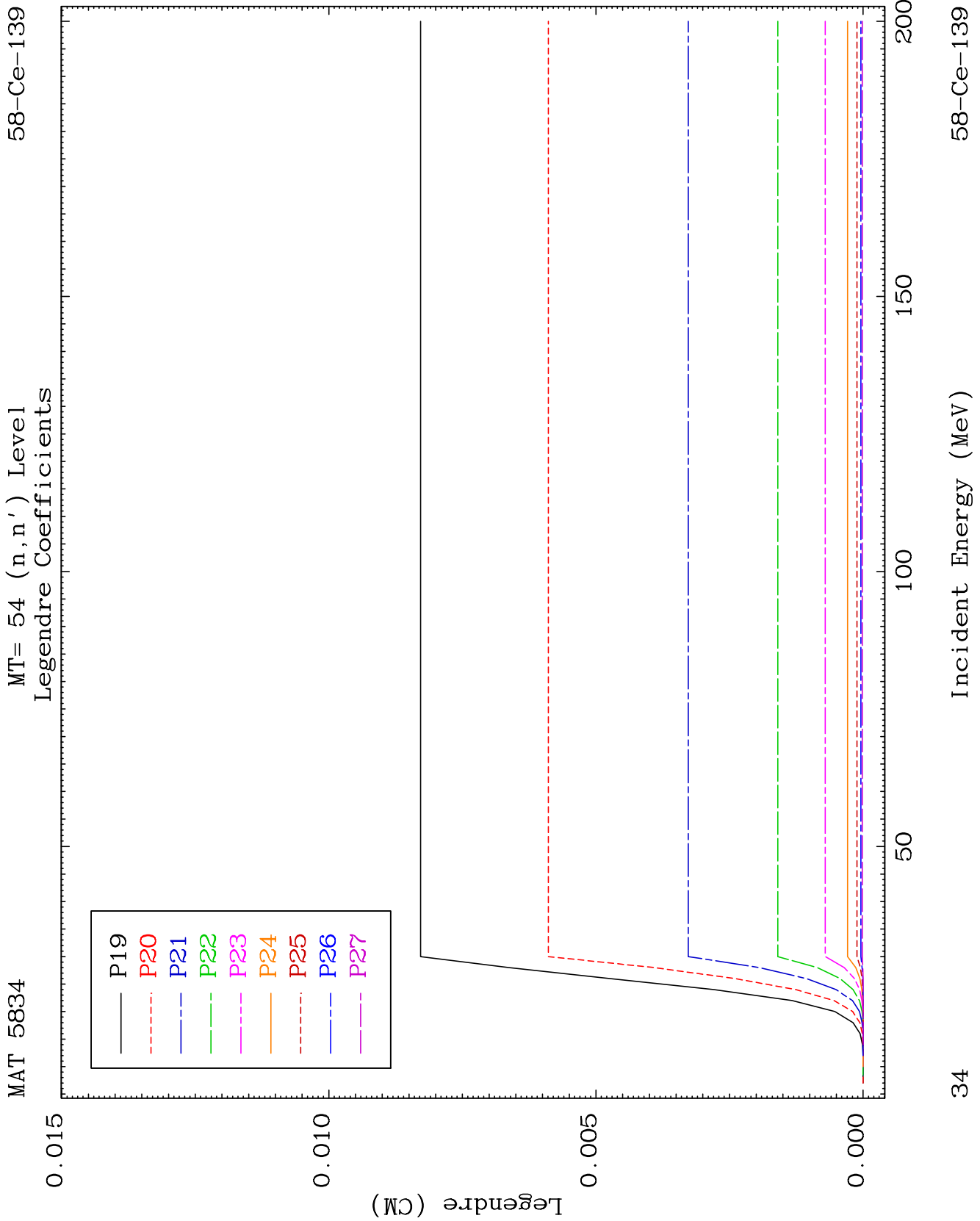
58-Ce-139



58-Ce-139

Incident Energy (MeV)

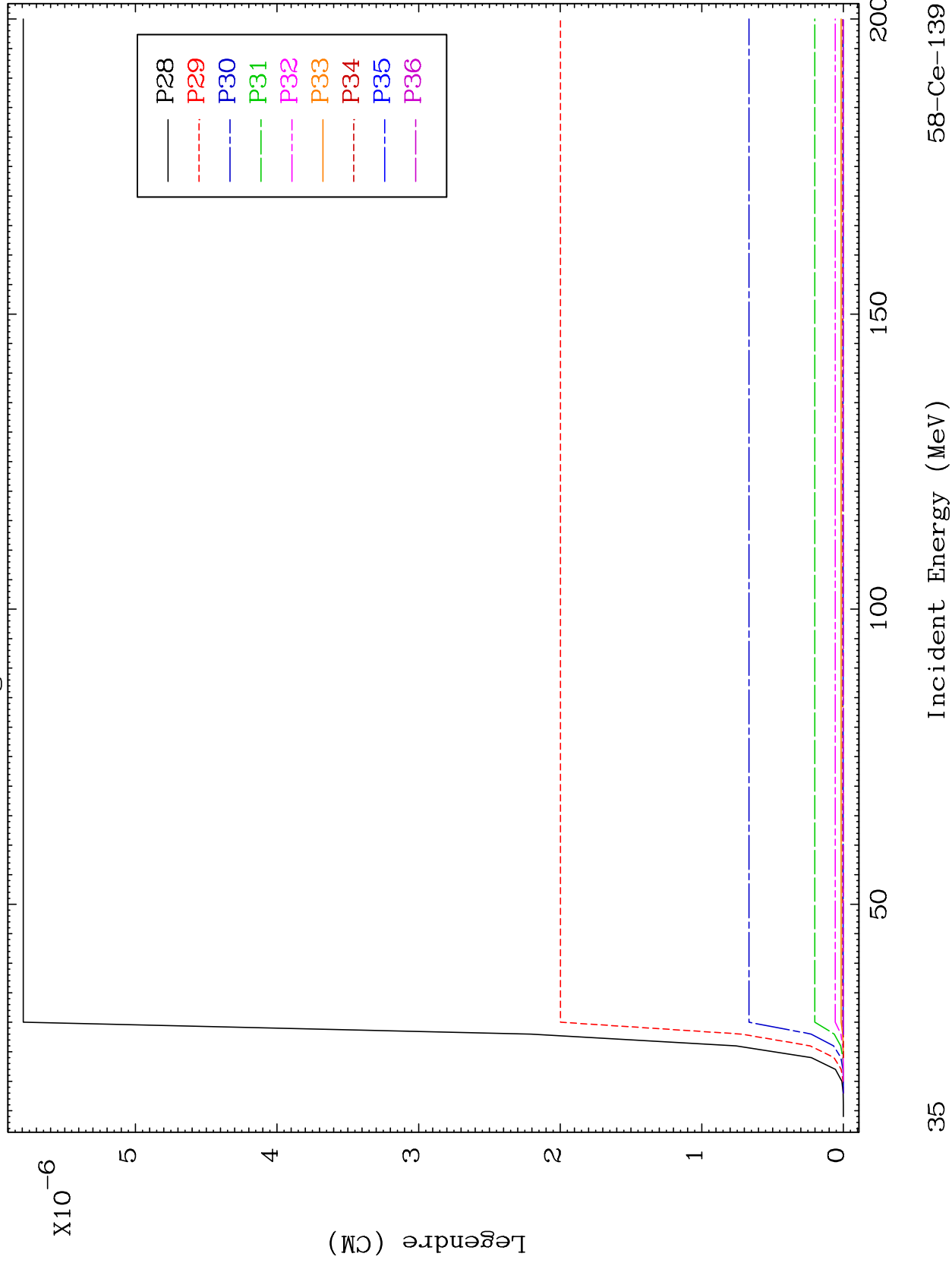
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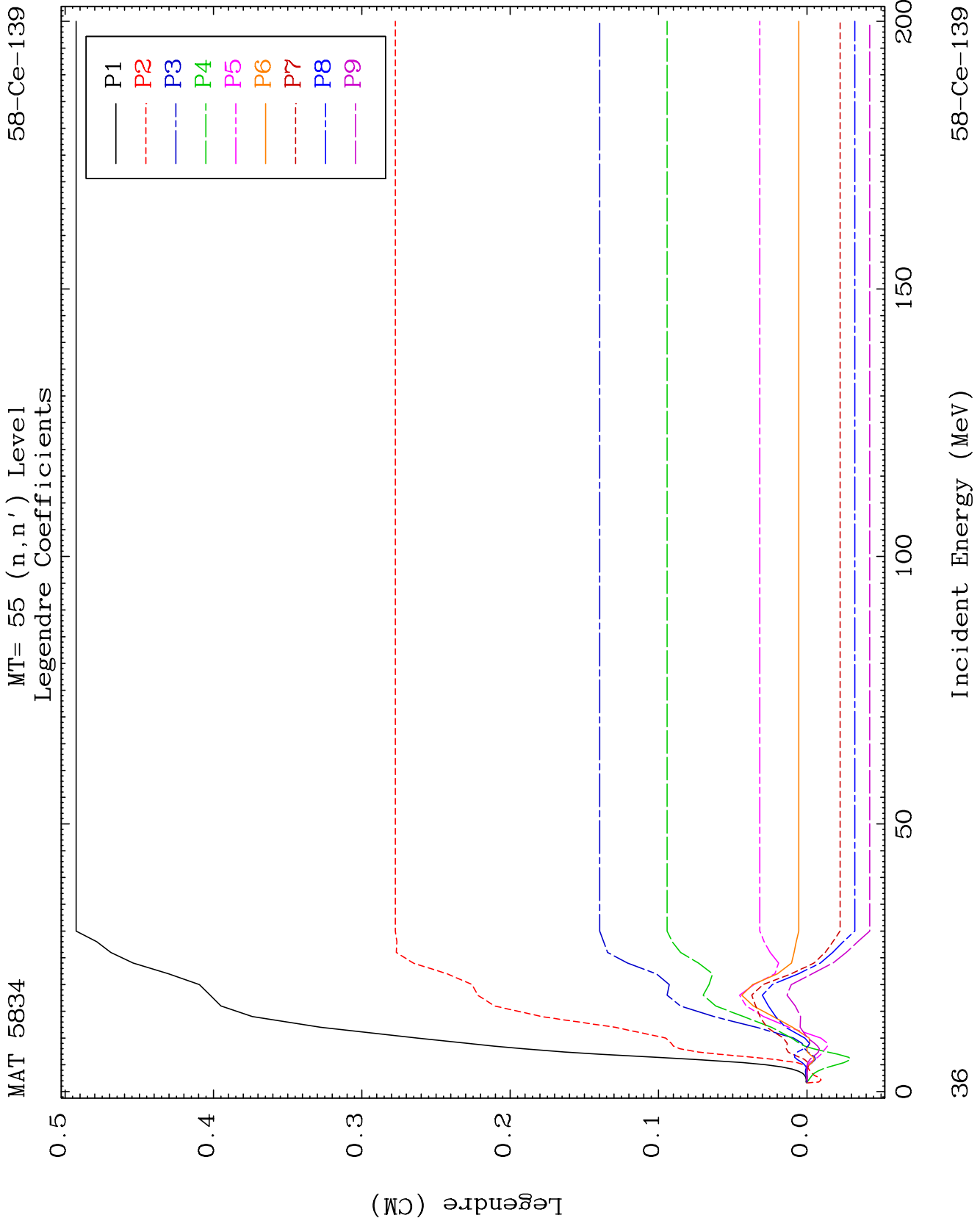


MAT 5834

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

58-Ce-139

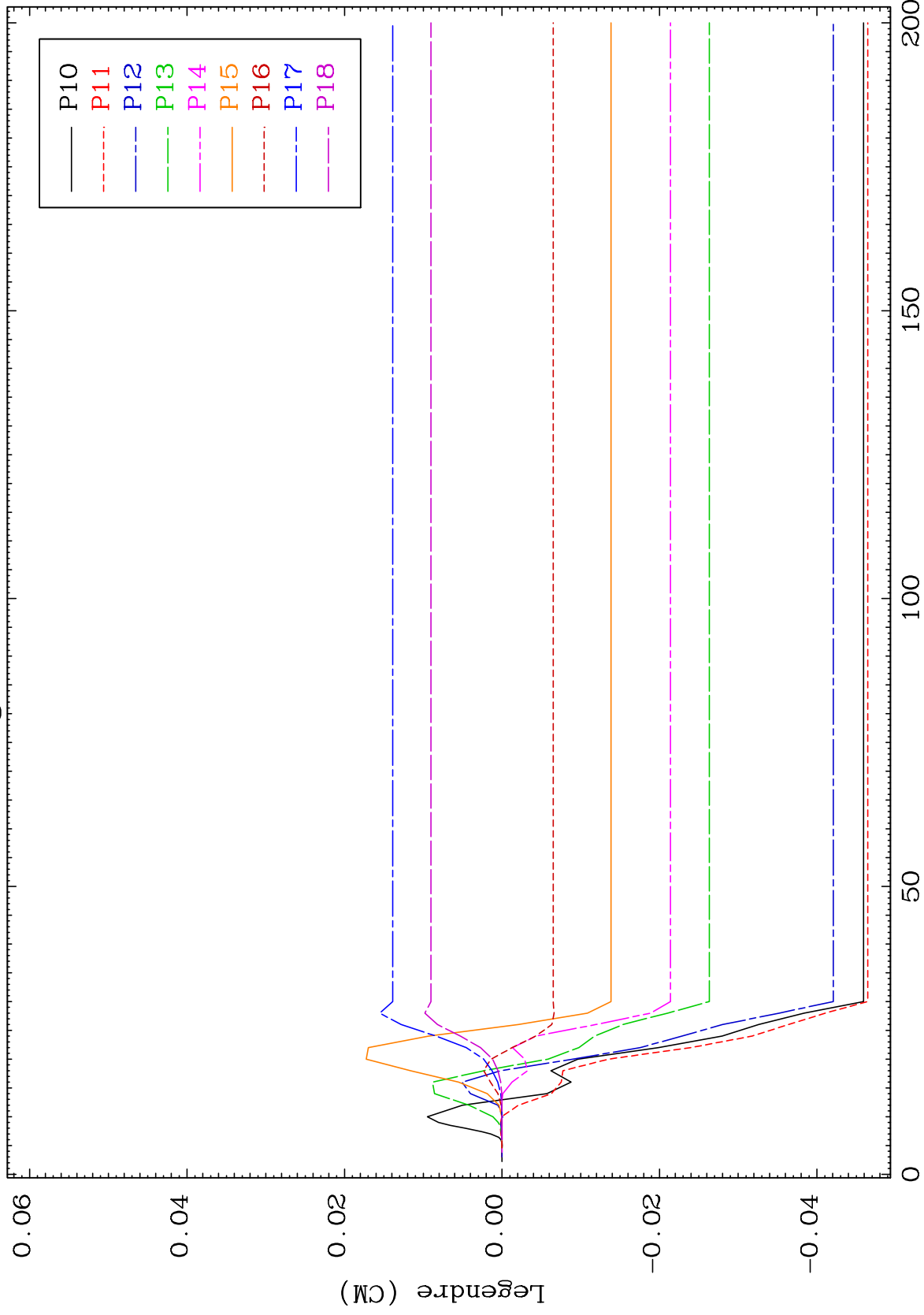




MAT 5834

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

58-Ce-139



37

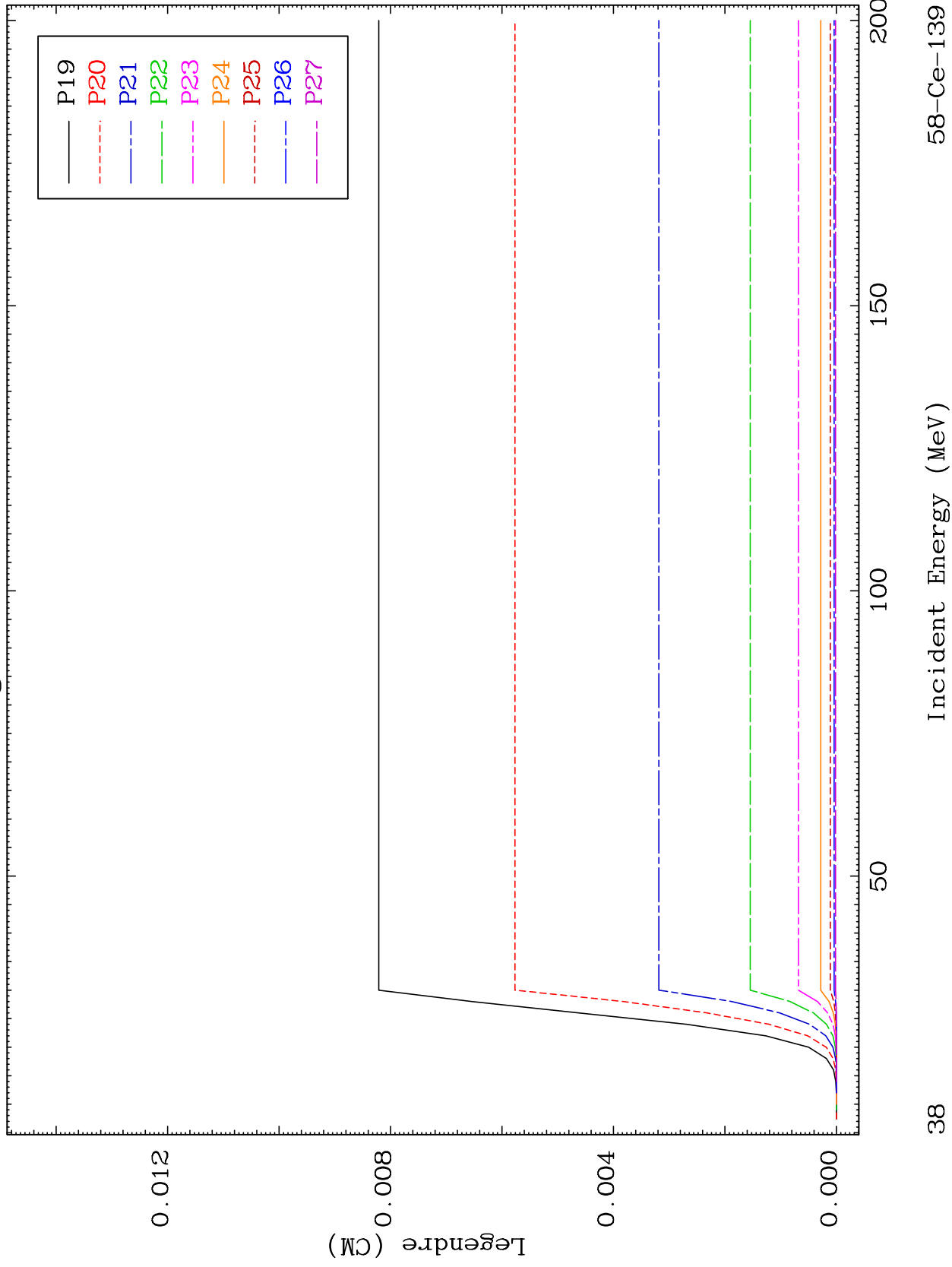
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



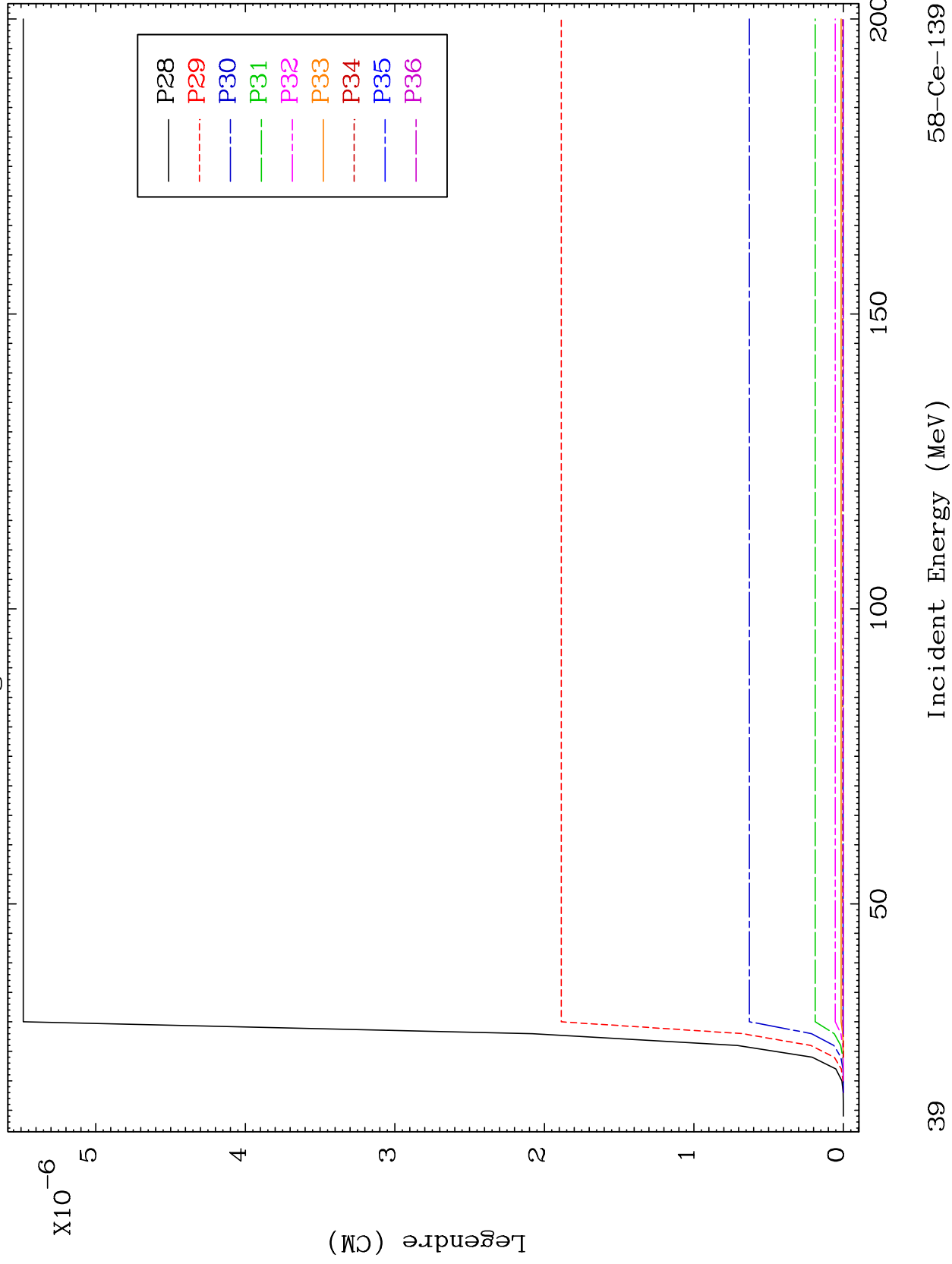
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58-Ce-139

MAT 5834

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

58-Ce-139

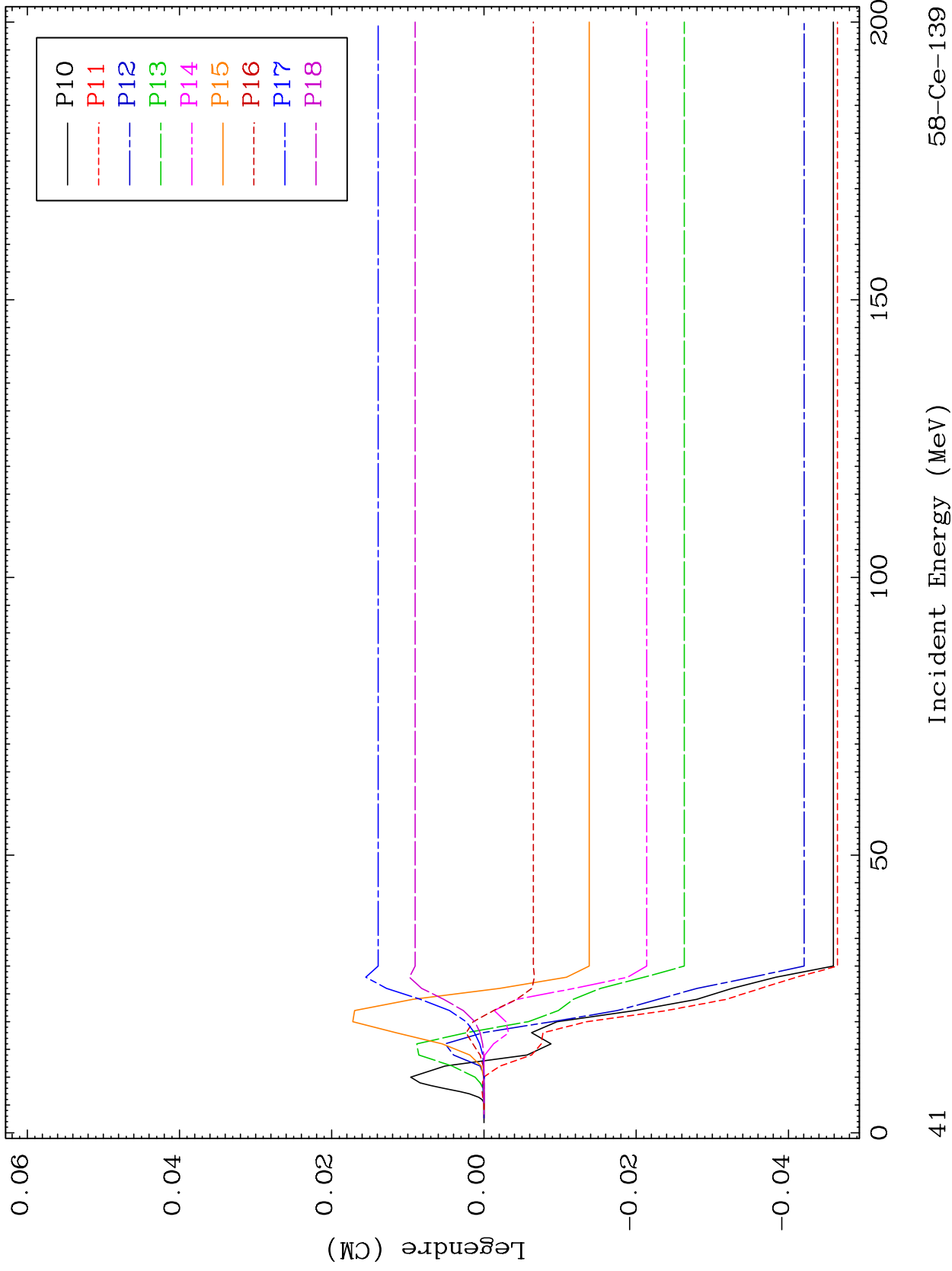


39

MAT 5834

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

58-Ce-139



41

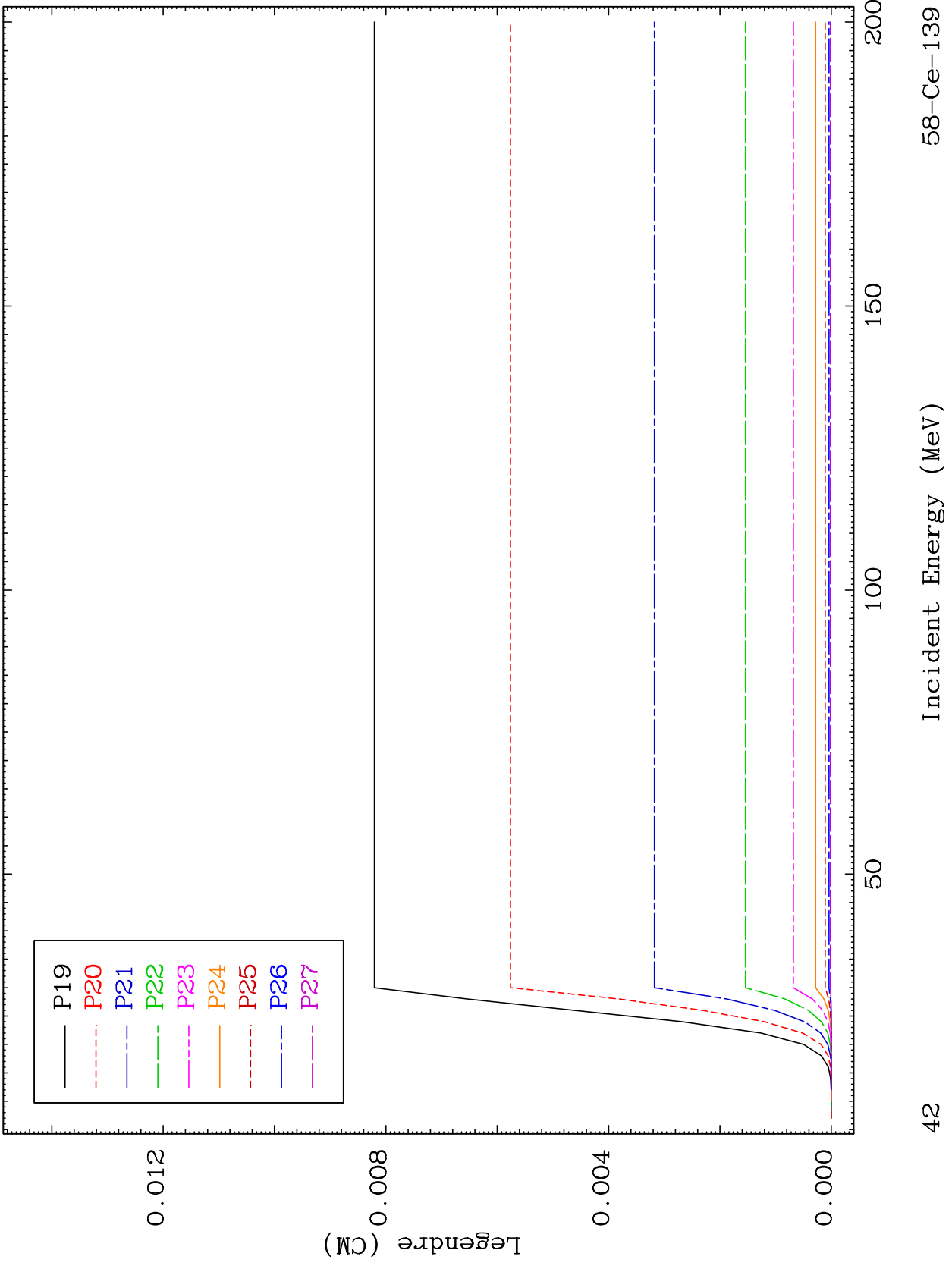
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



42

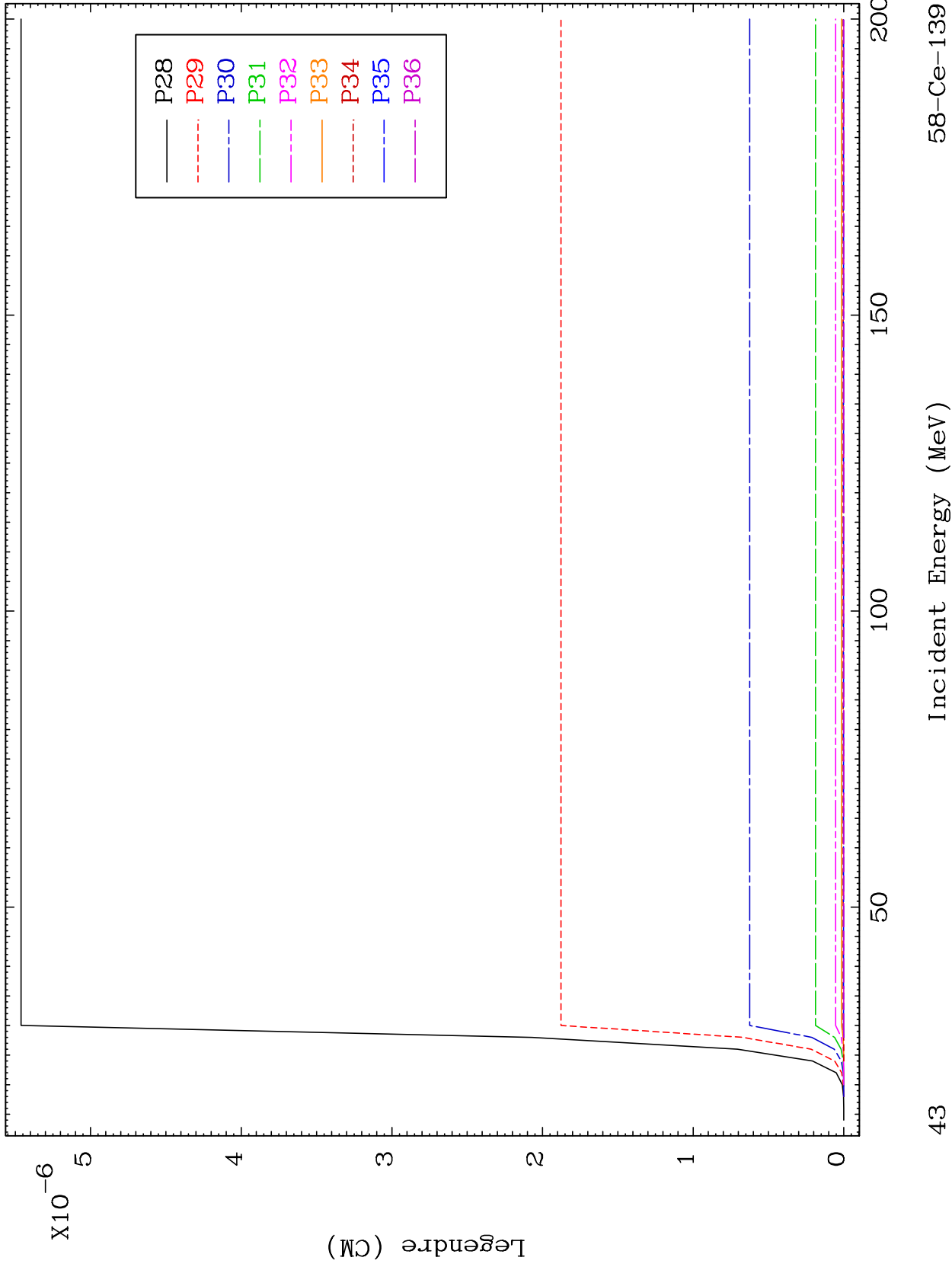
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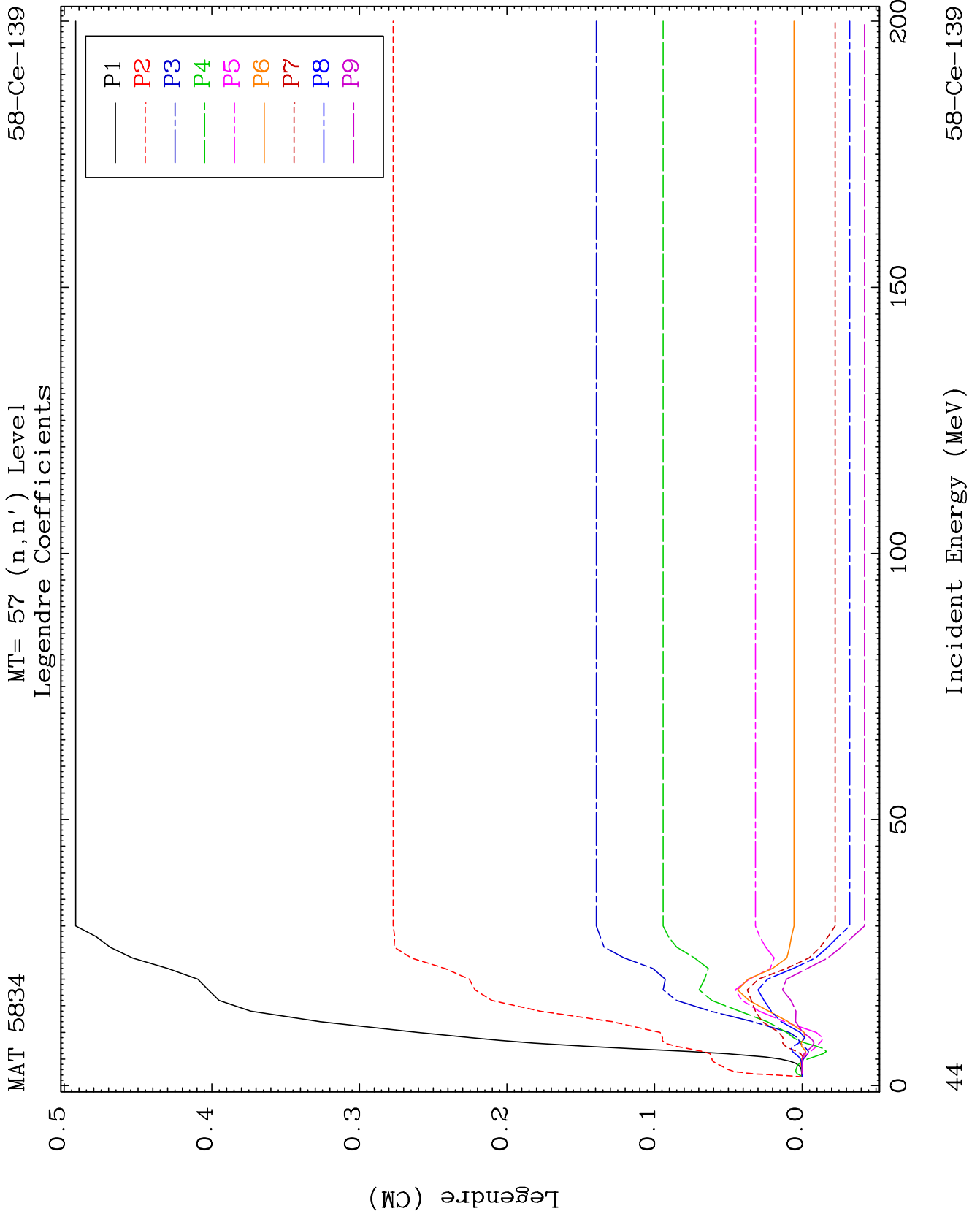
58-Ce-139

MAT 5834

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

58-Ce-139

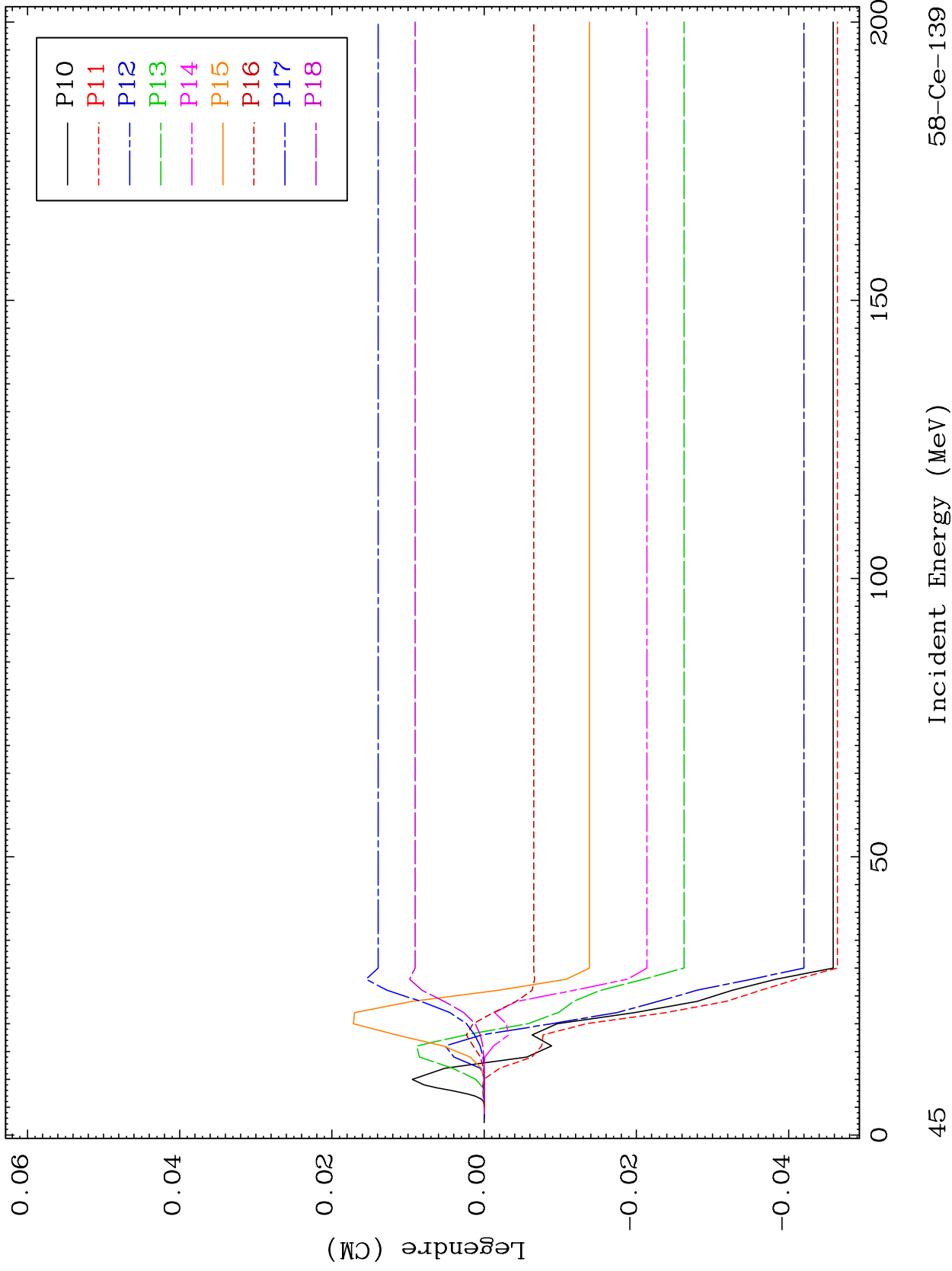




MAT 5834

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

58-Ce-139



58-Ce-139

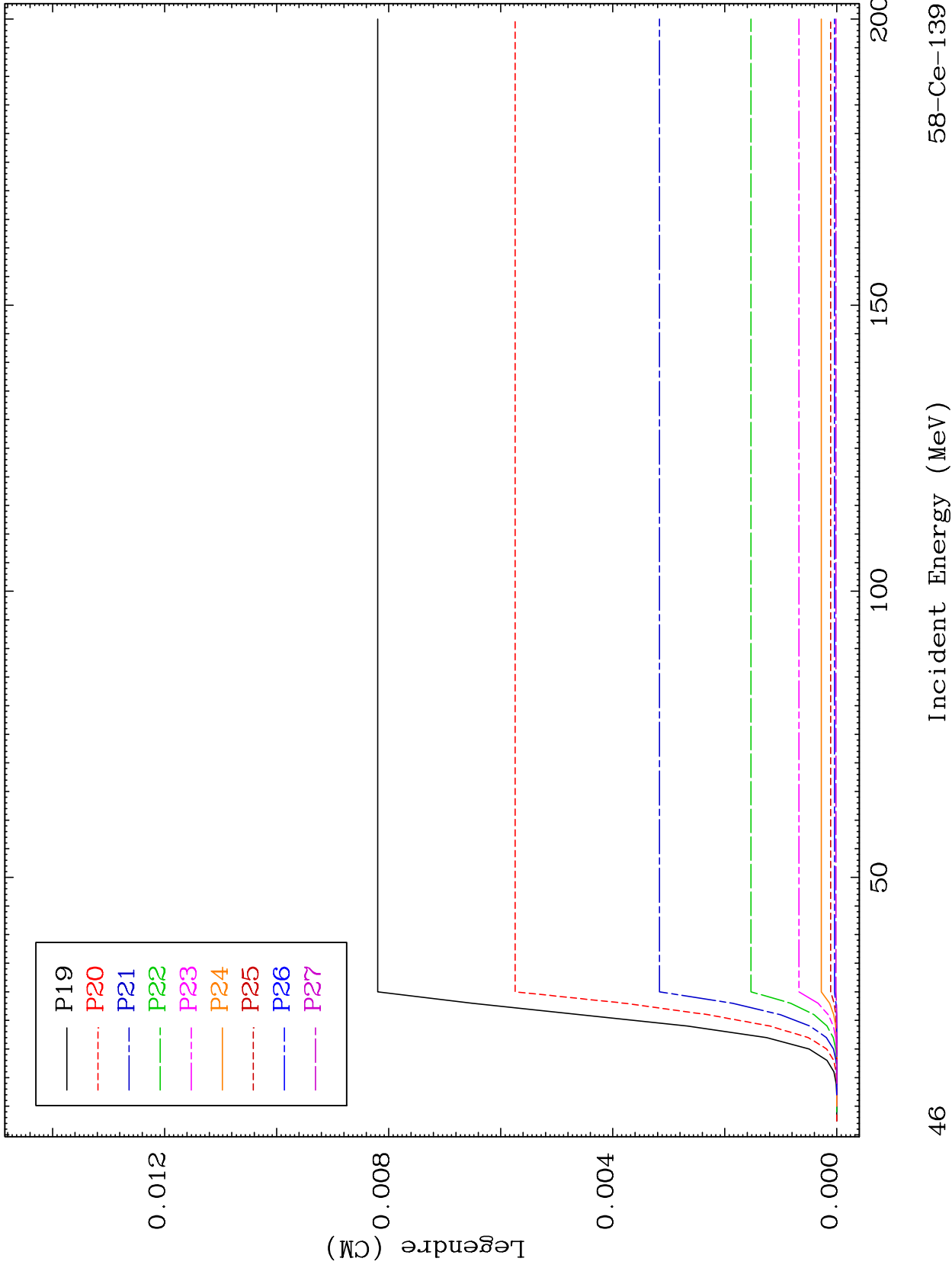
Incident Energy (MeV)

45

MAT 5834

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

58-Ce-139



46

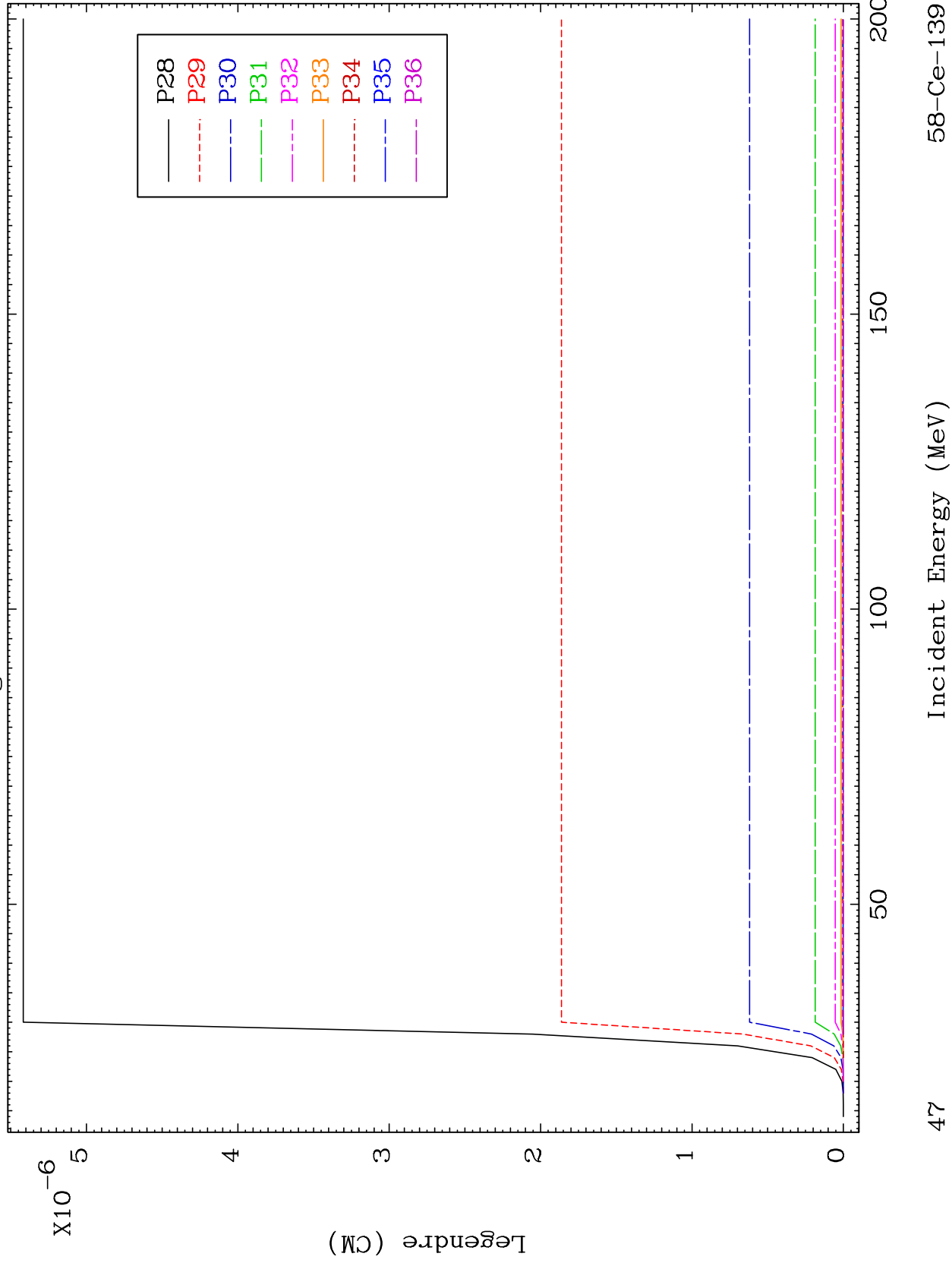
Incident Energy (MeV)

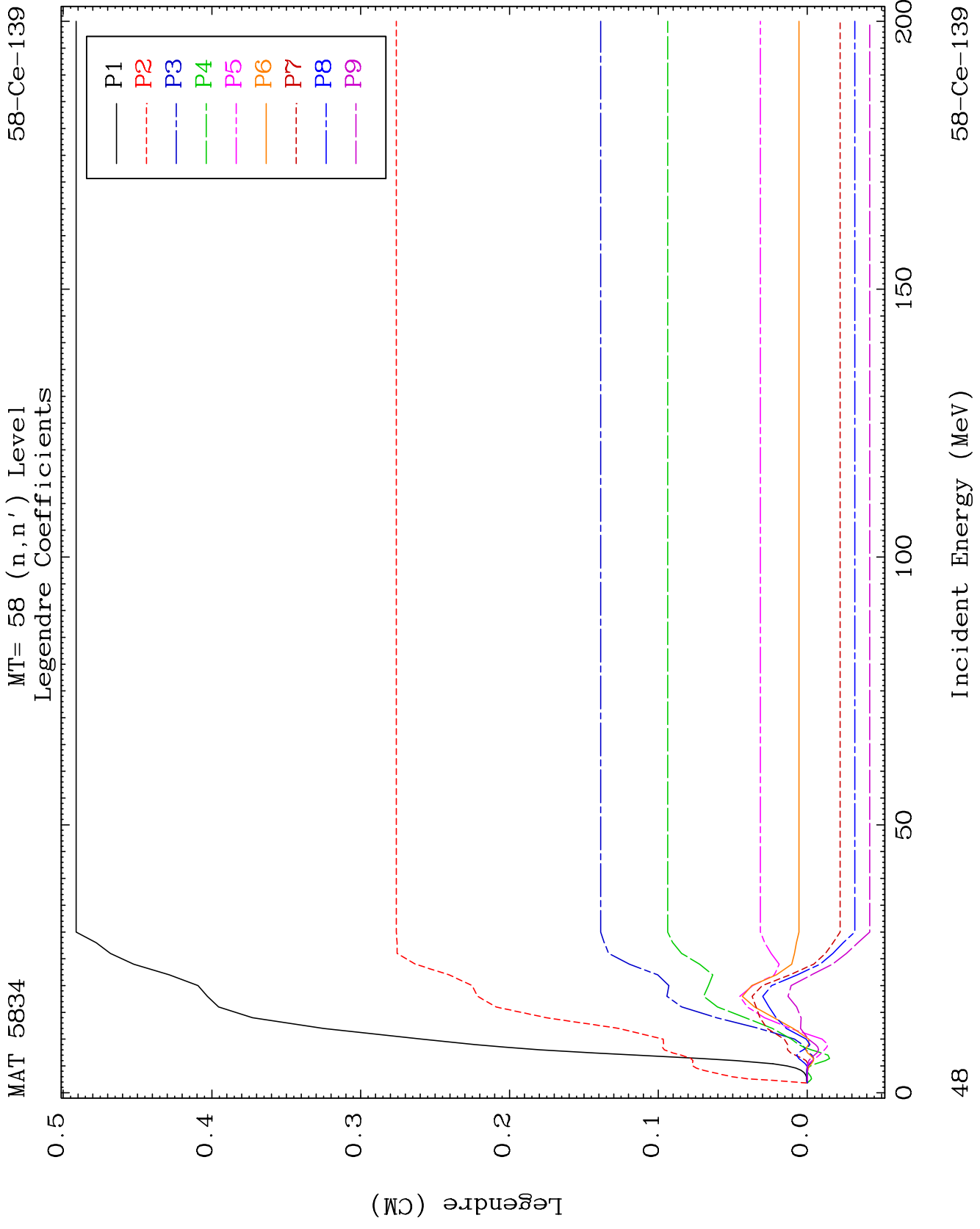
58-Ce-139

MAT 5834

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

58-Ce-139

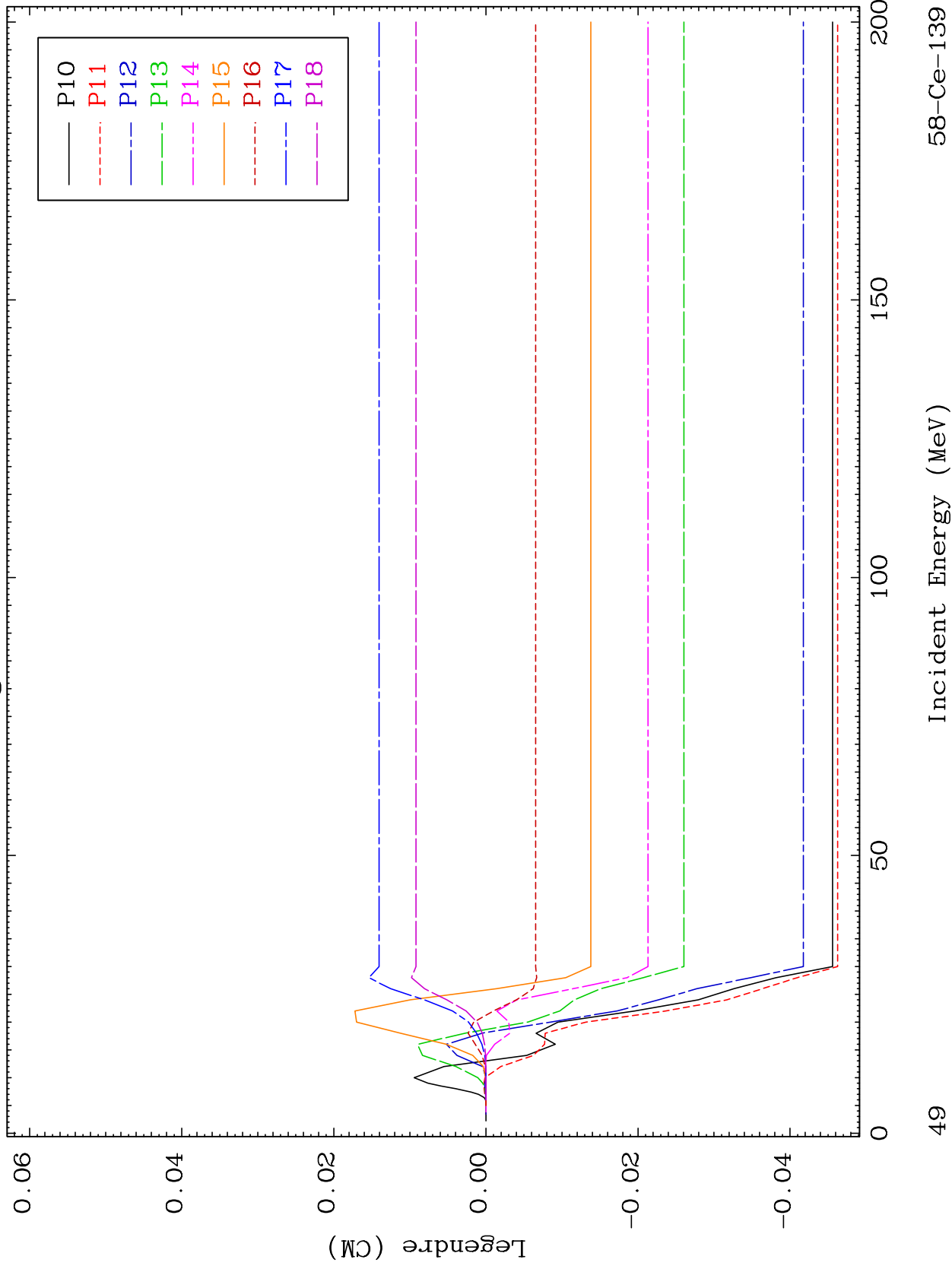




MAT 5834

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

58-Ce-139



58-Ce-139

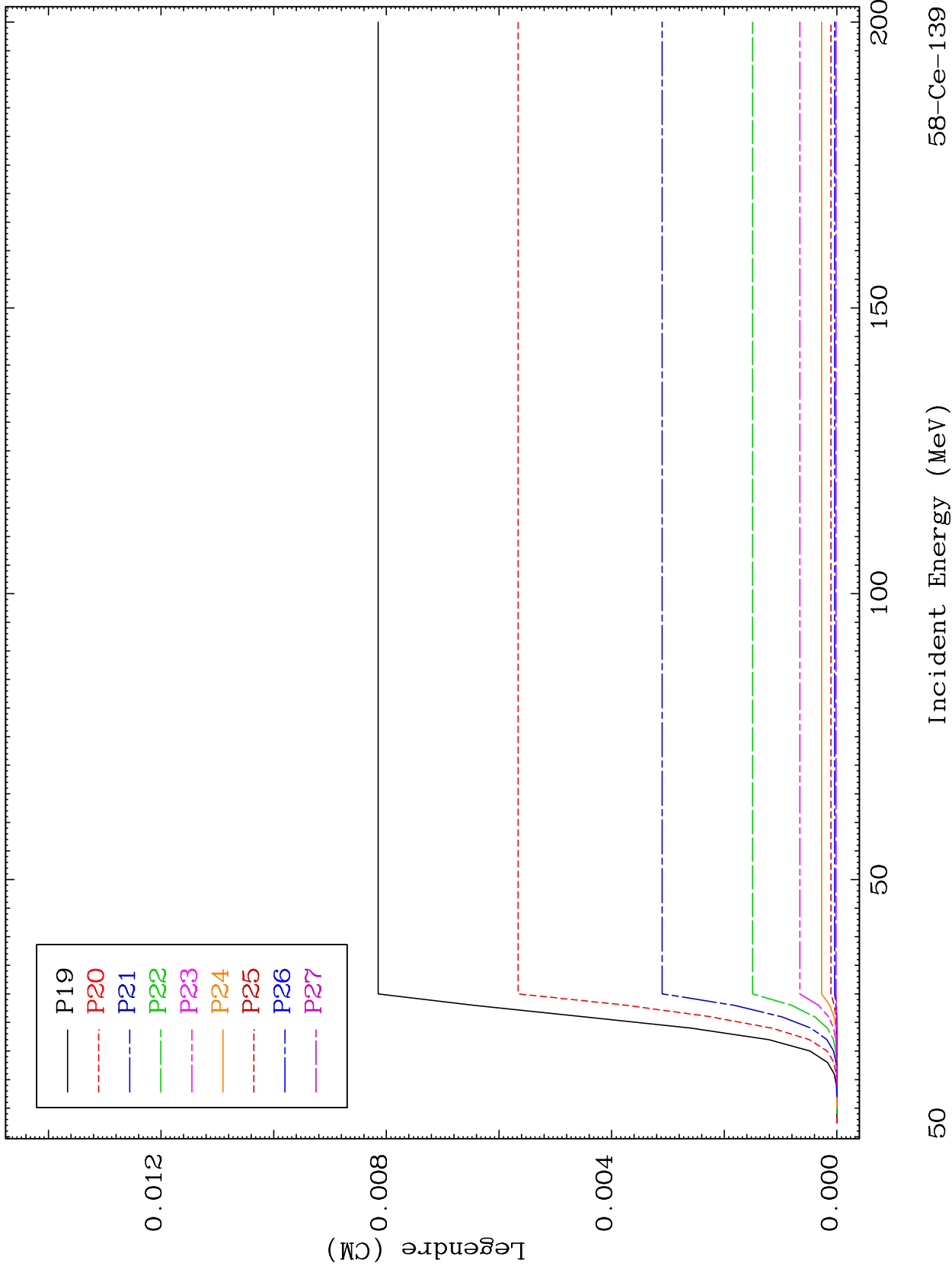
Incident Energy (MeV)

49

MAT 5834

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

58-Ce-139



58-Ce-139

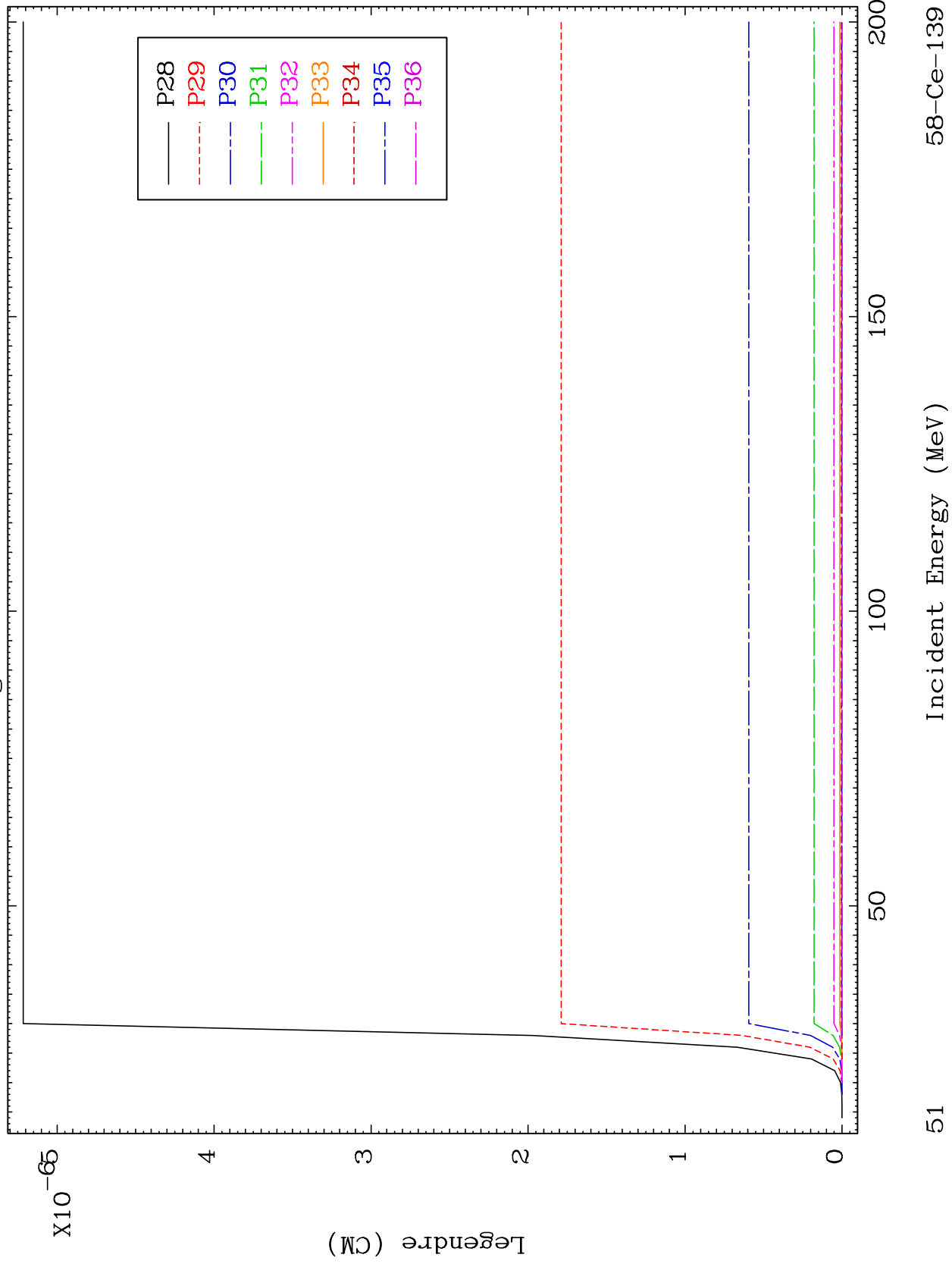
Incident Energy (MeV)

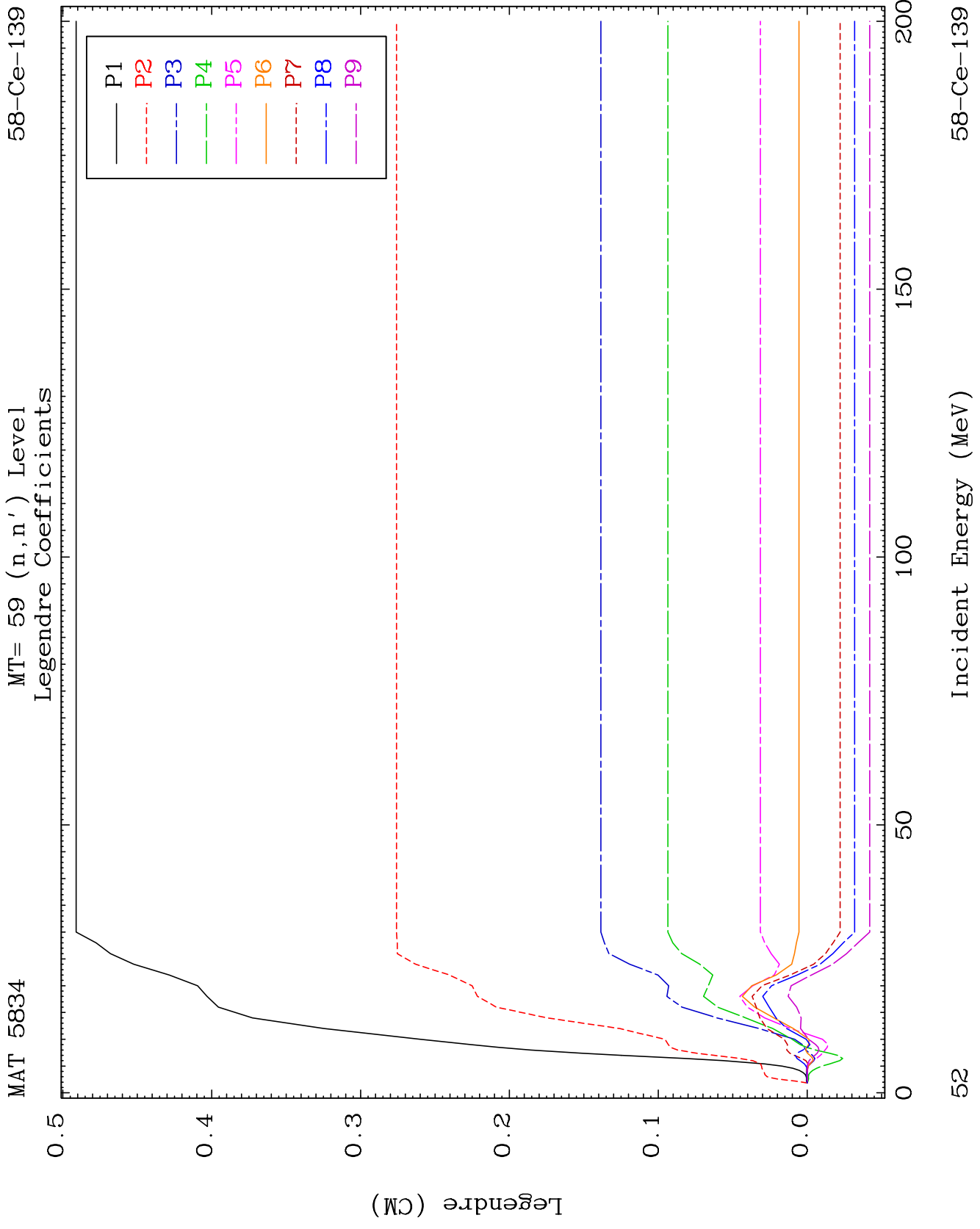
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MAT 5834

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

58-Ce-139

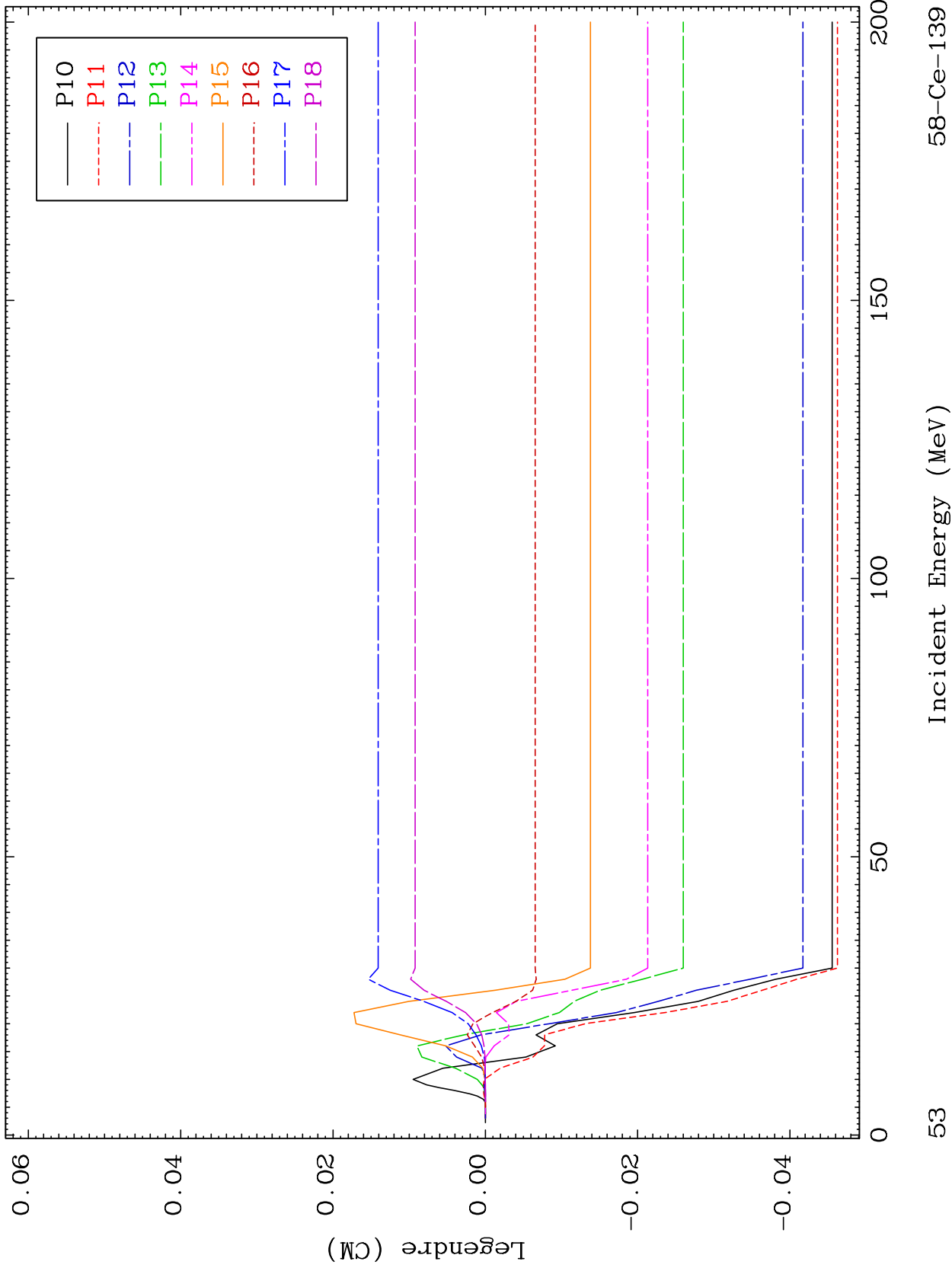




MAT 5834

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

58-Ce-139



53

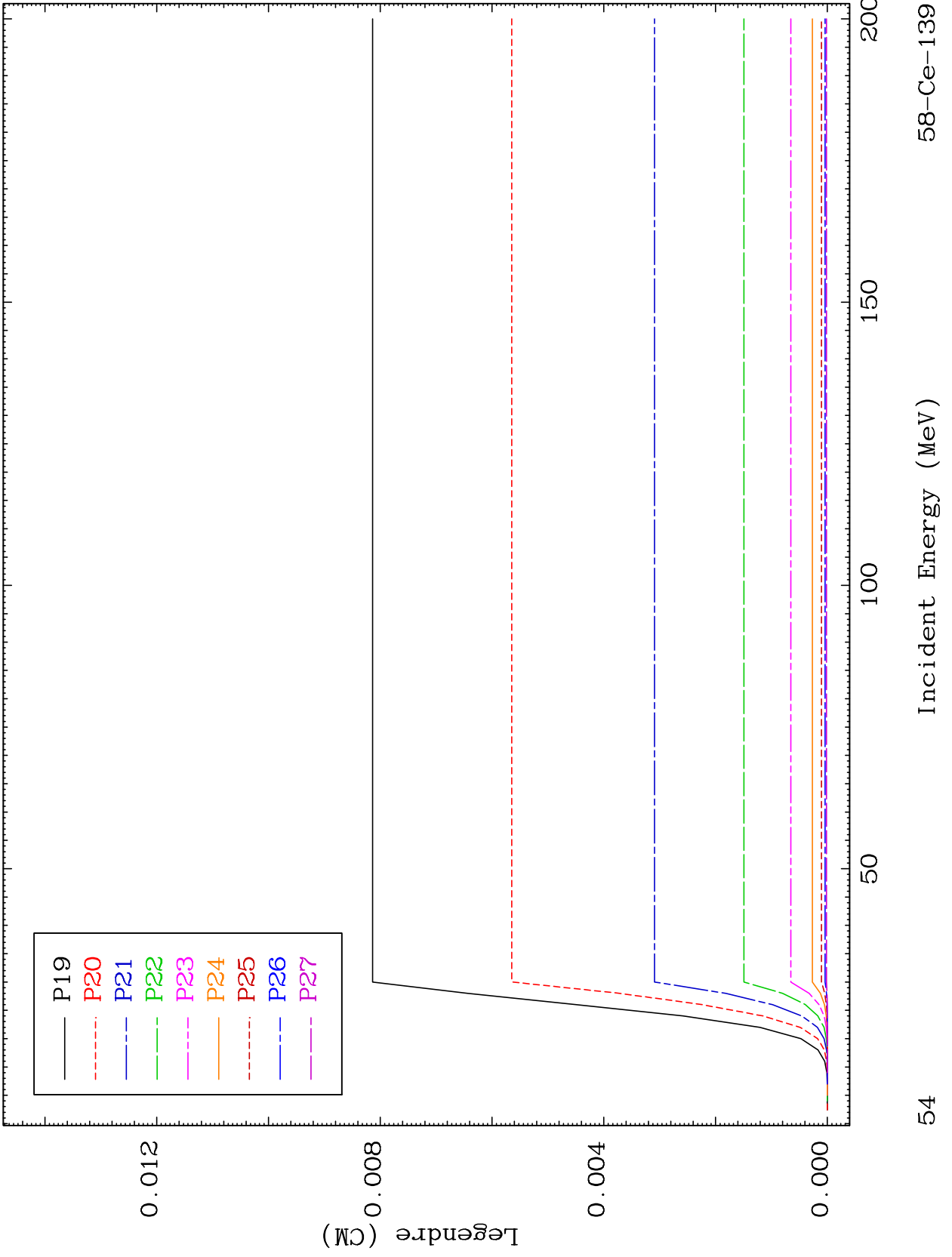
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



54

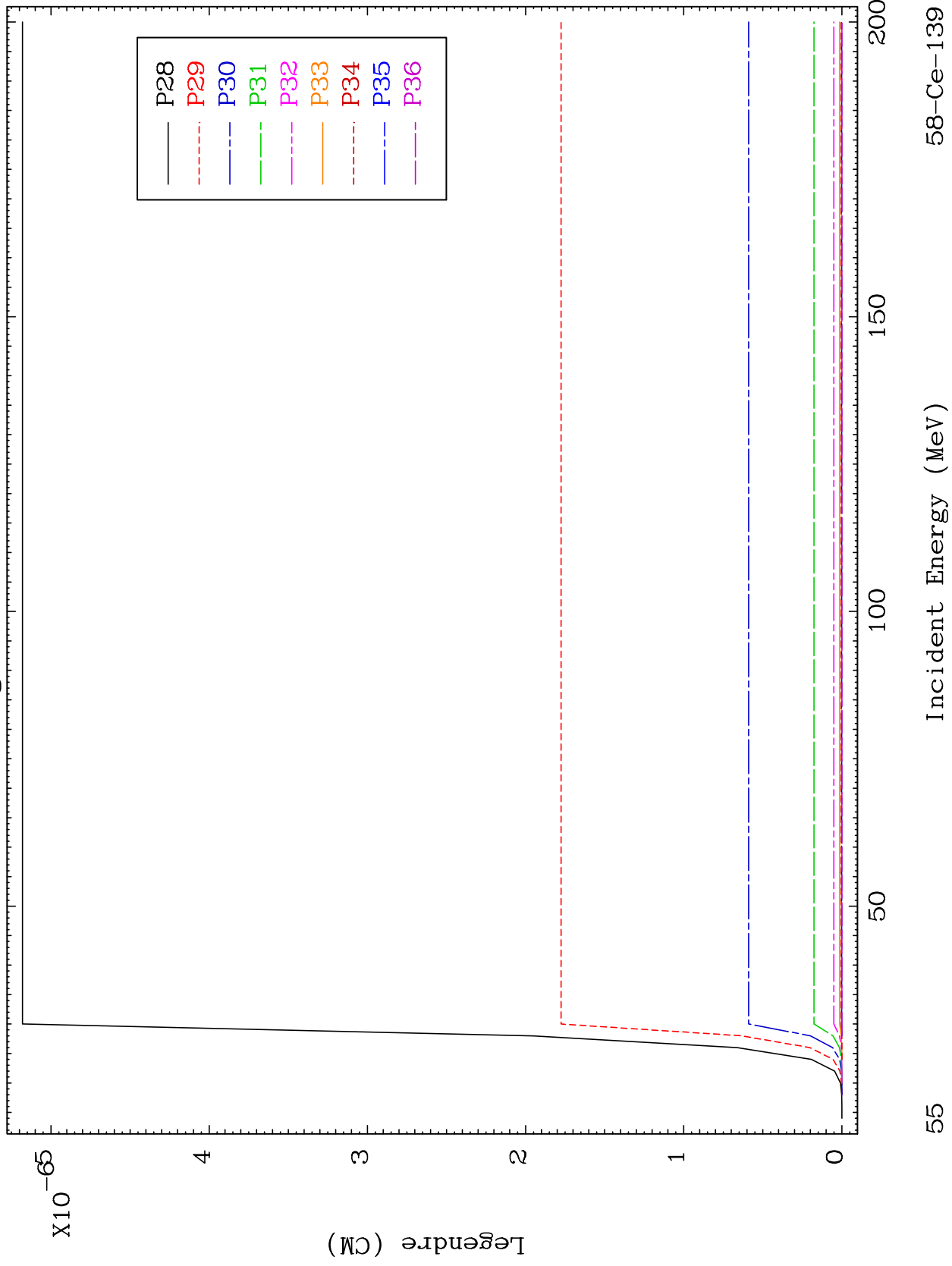
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

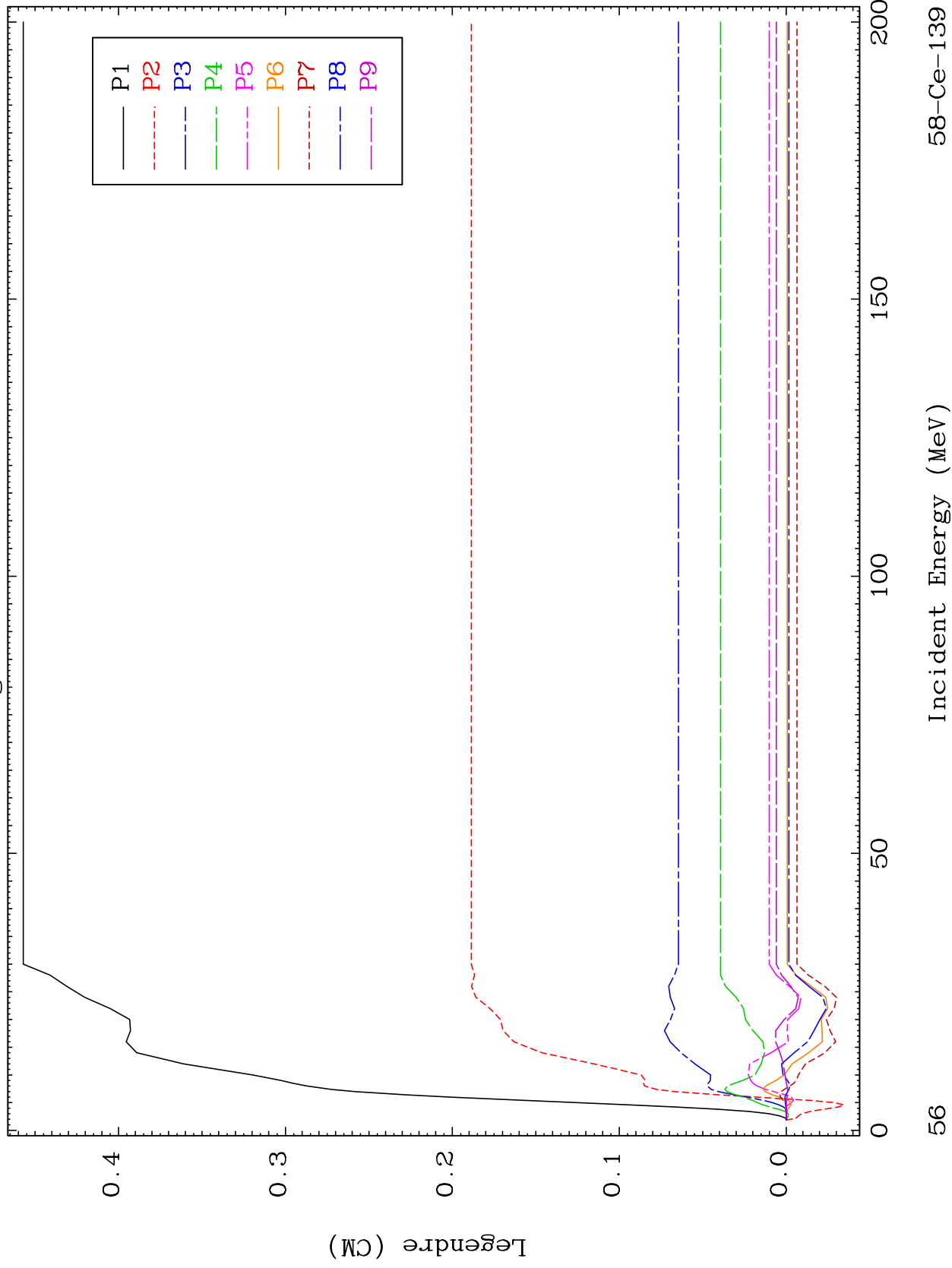
58-Ce-139



MAT 5834

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

58-Ce-139



58-Ce-139

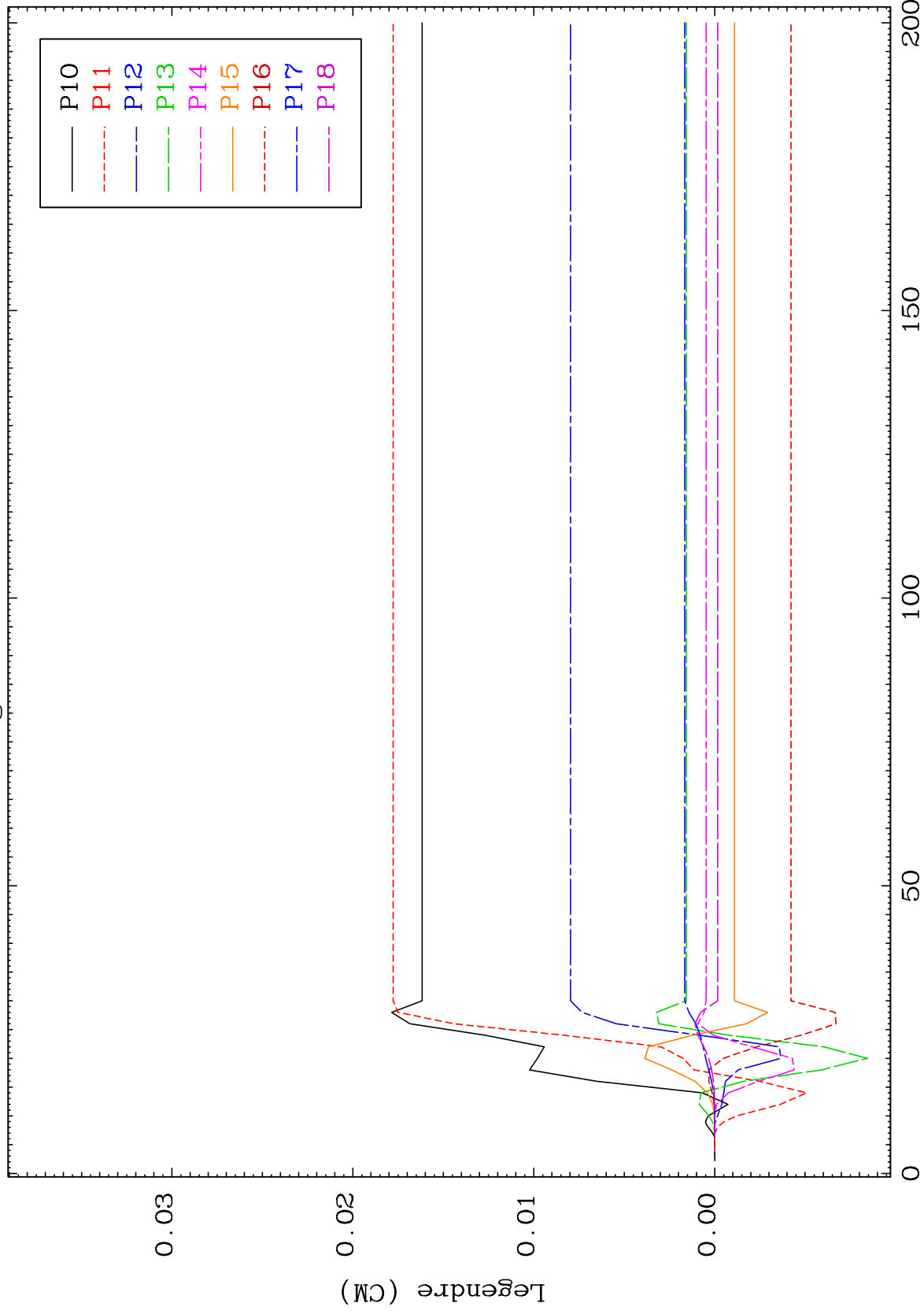
Incident Energy (MeV)

56

MAT 5834

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

58-Ce-139



57

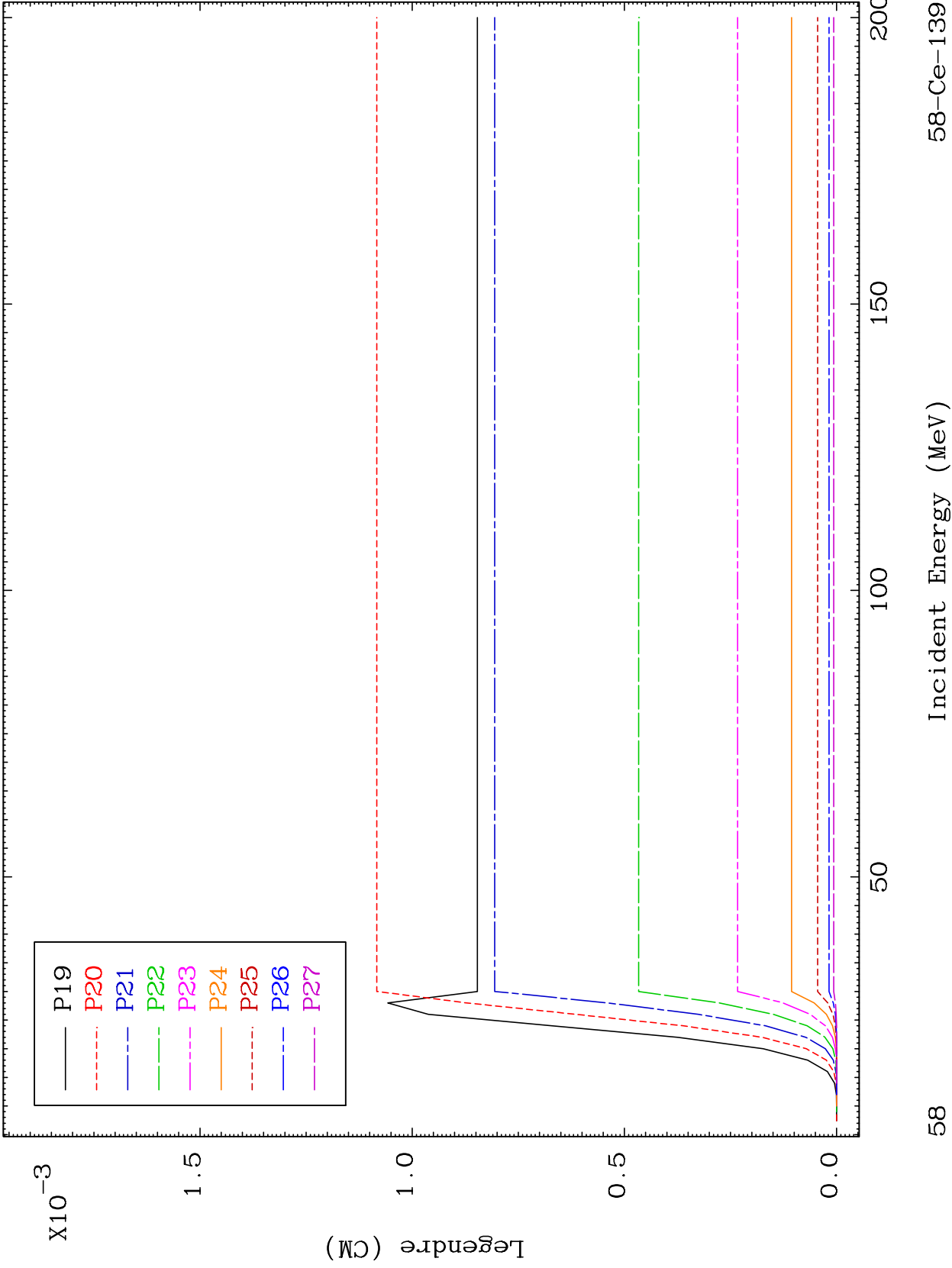
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



58

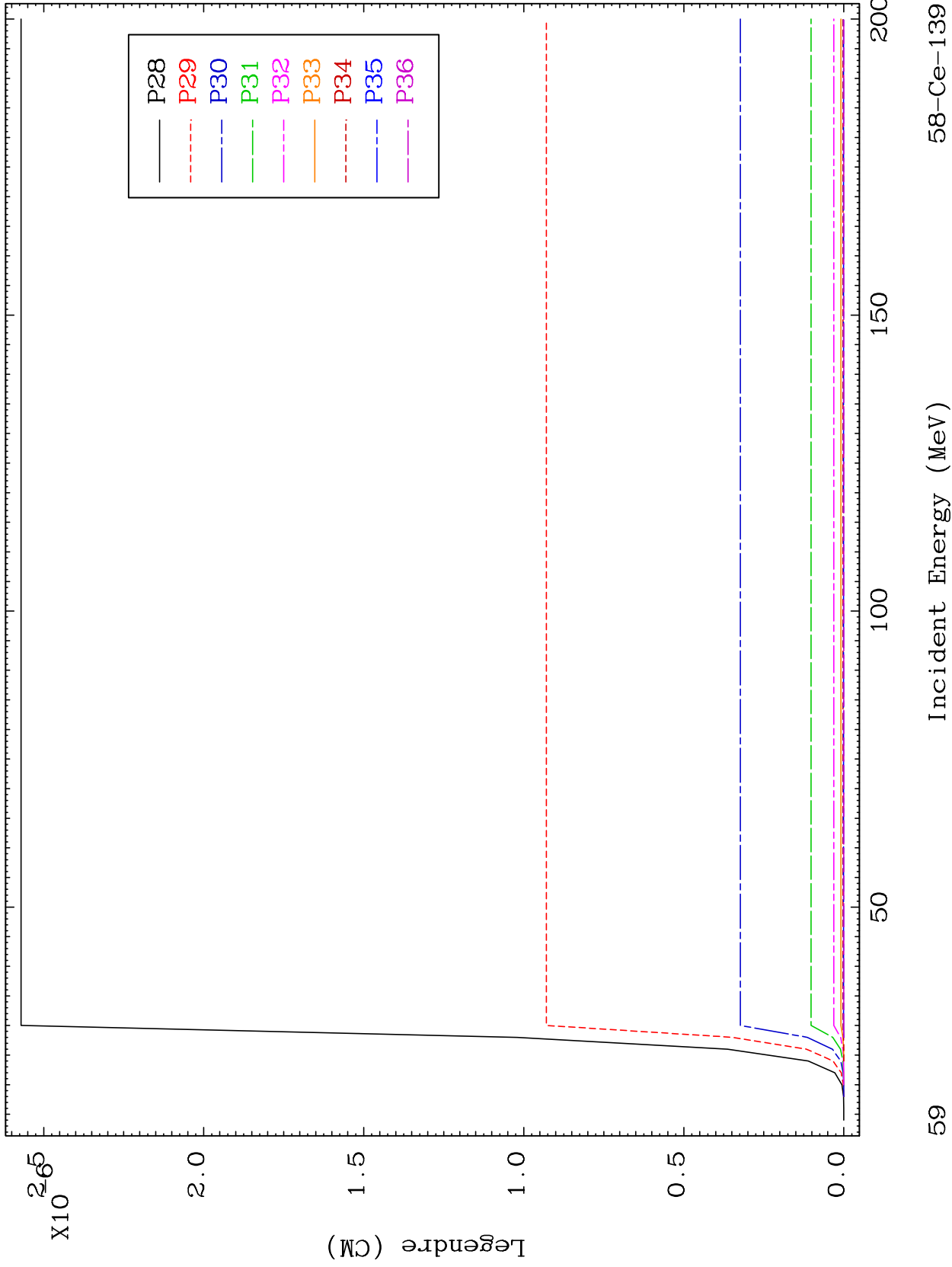
Incident Energy (MeV)

58-Ce-139

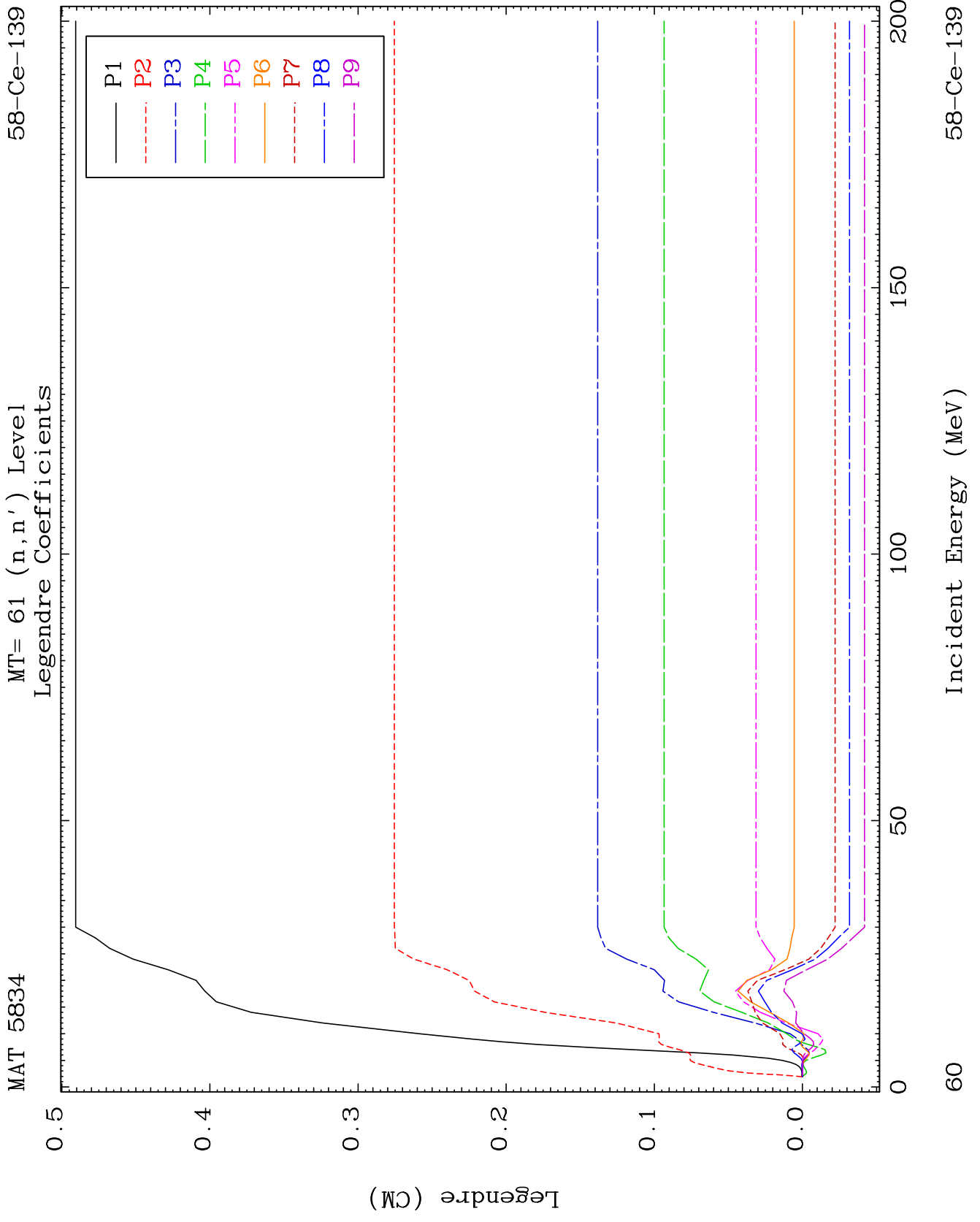
MAT 5834

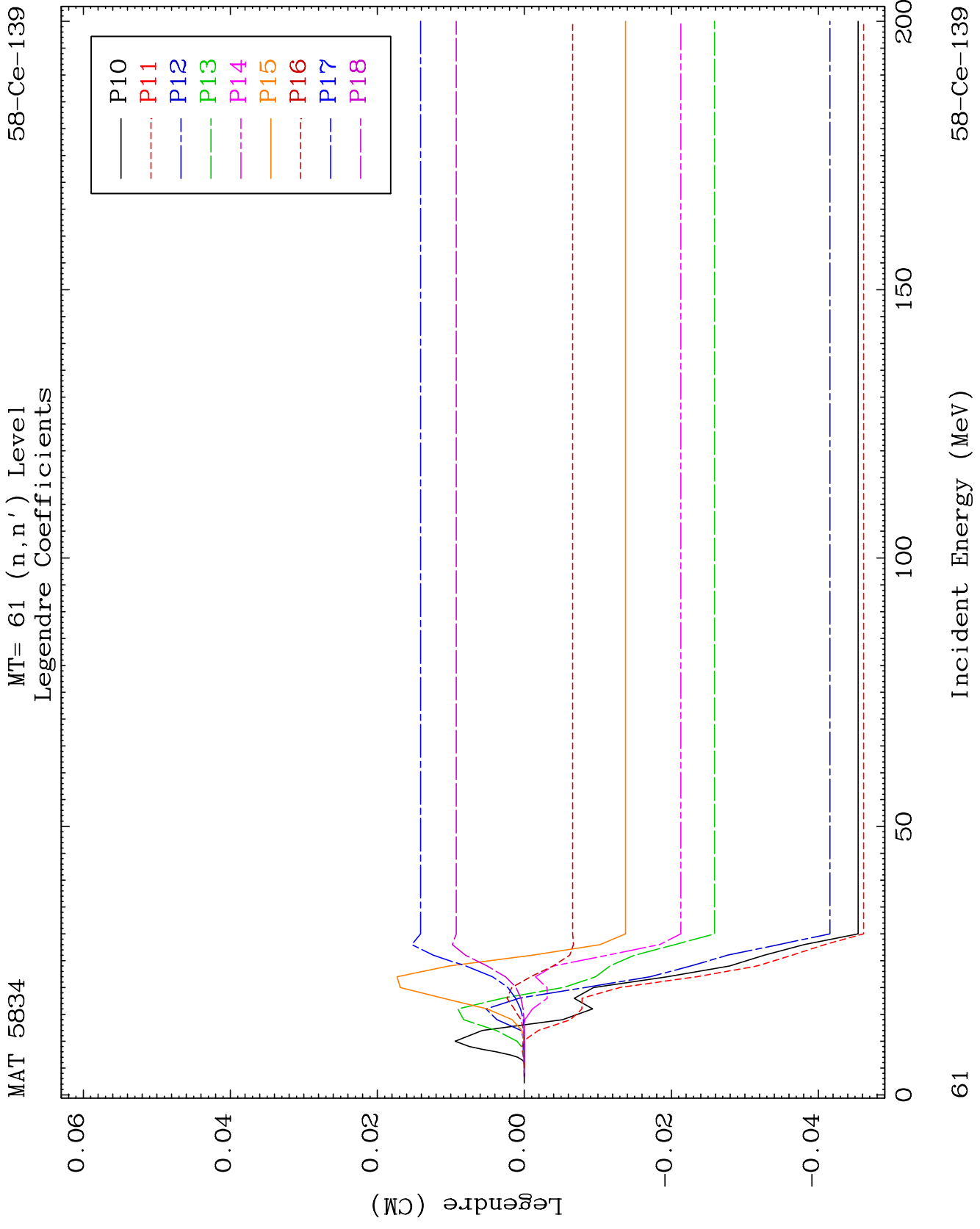
MT= 60 (n,n') Level
Legendre Coefficients

58-Ce-139



59

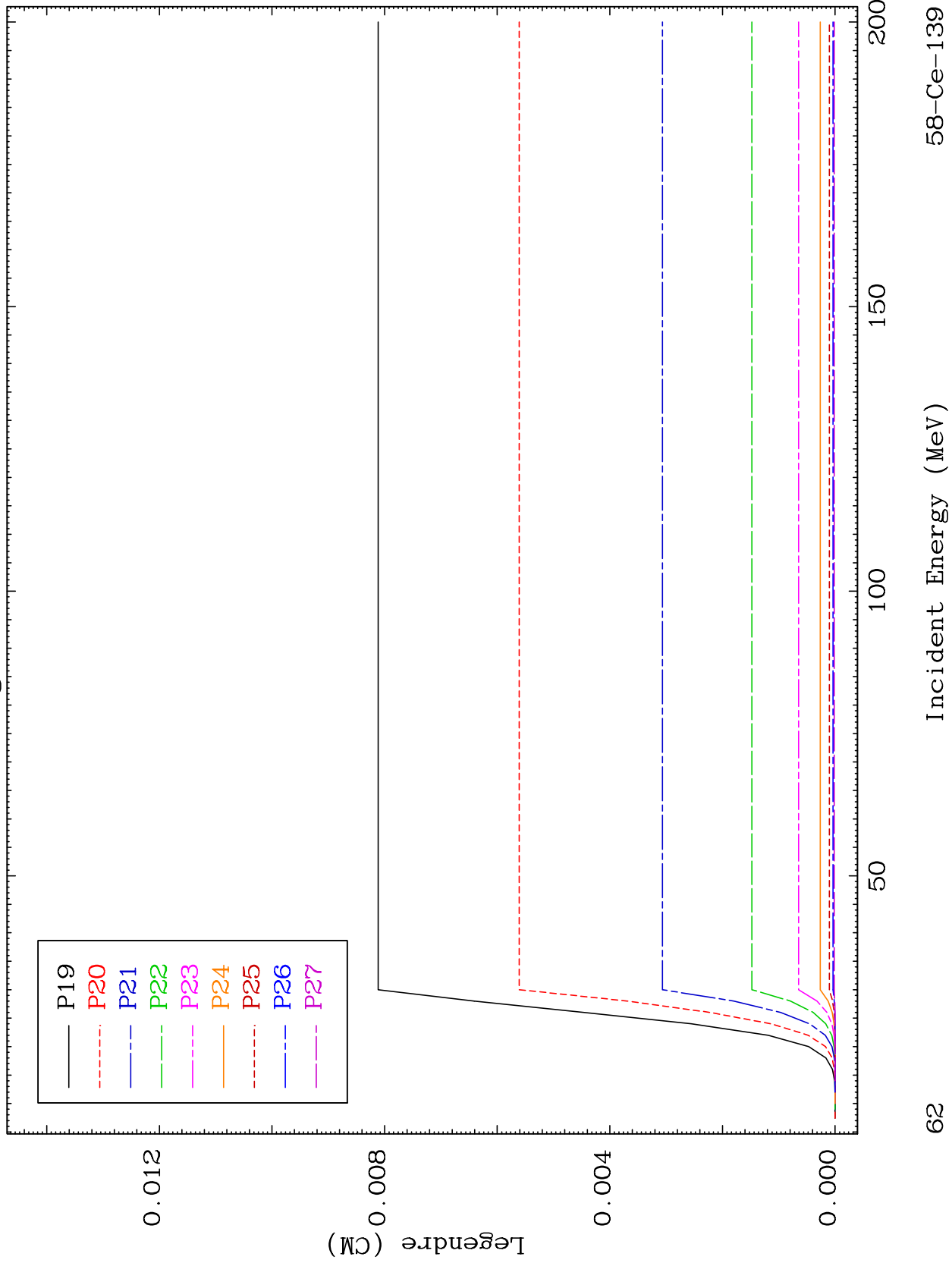




MAT 5834

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

58-Ce-139



62

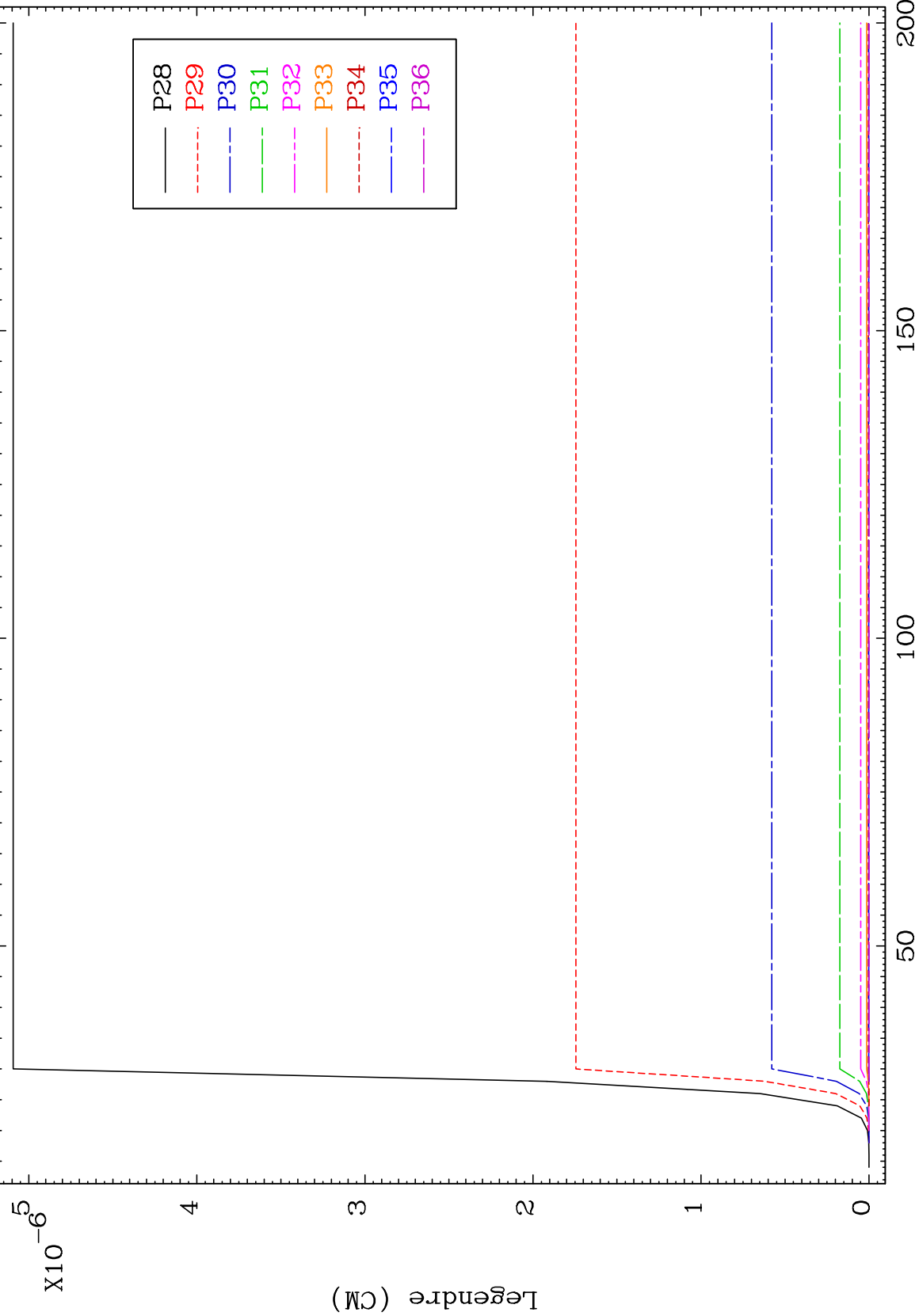
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

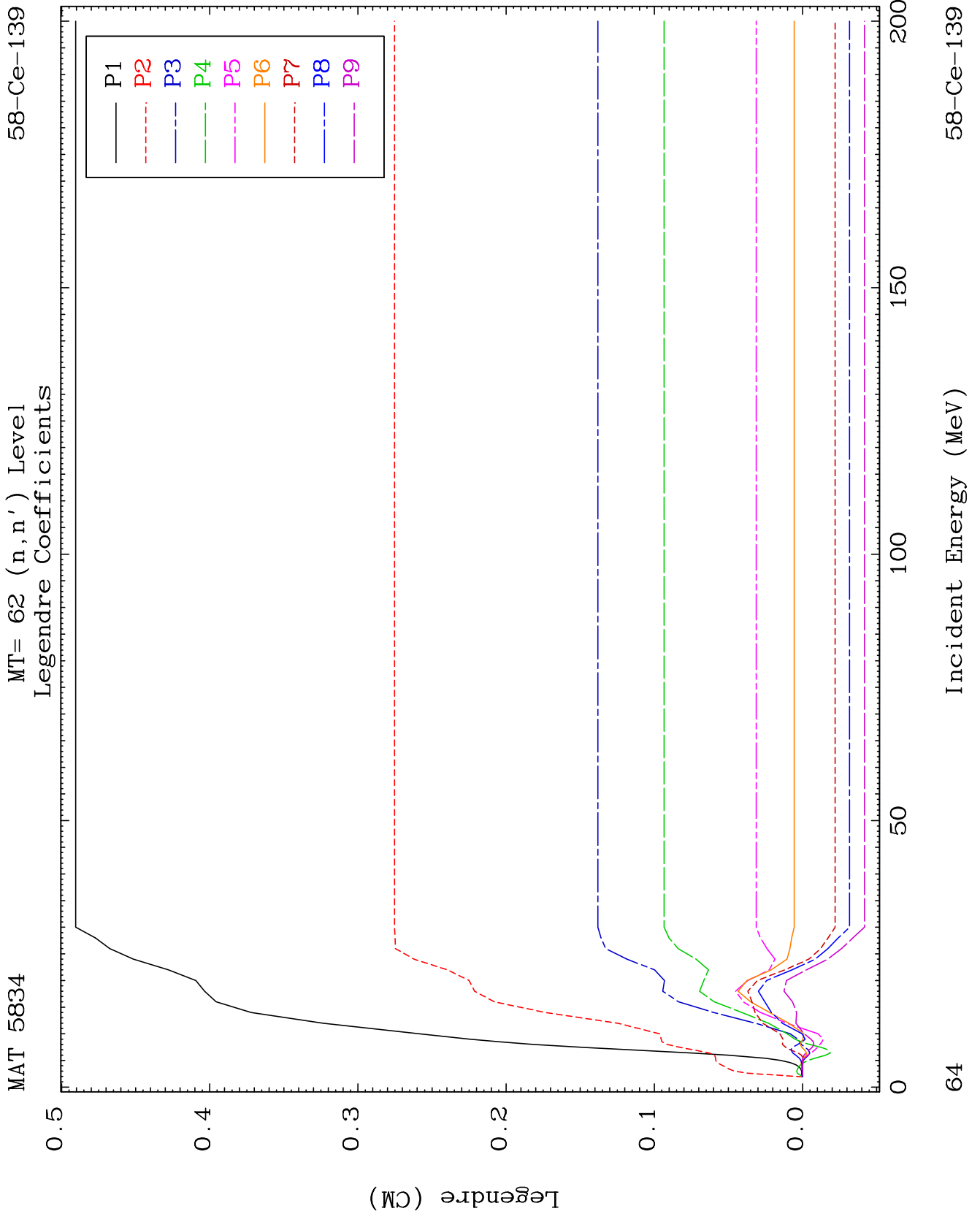
58-Ce-139



63

Incident Energy (MeV)

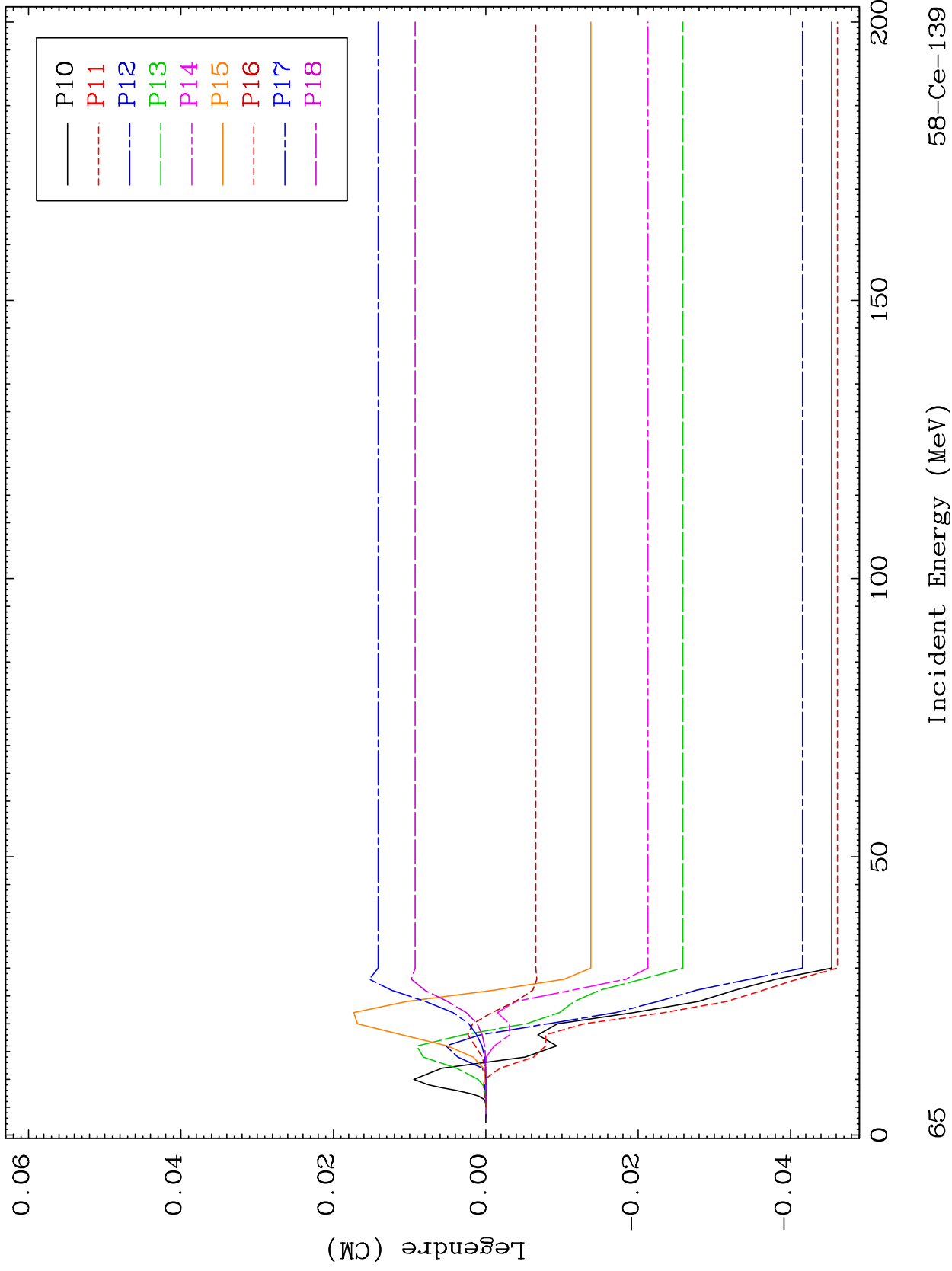
58-Ce-139



MAT 5834

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

58-Ce-139



58-Ce-139

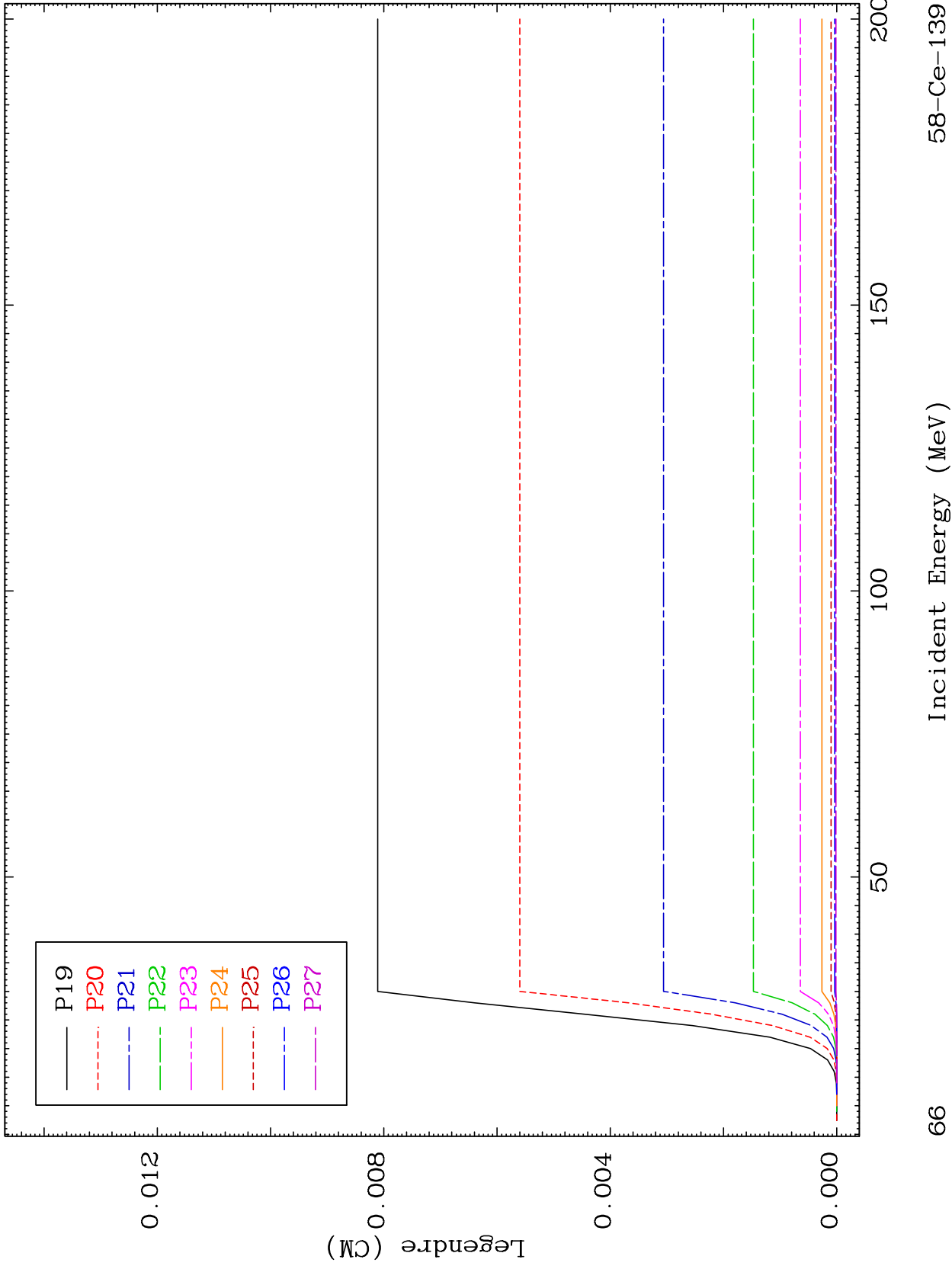
Incident Energy (MeV)

65

MAT 5834

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

58-Ce-139



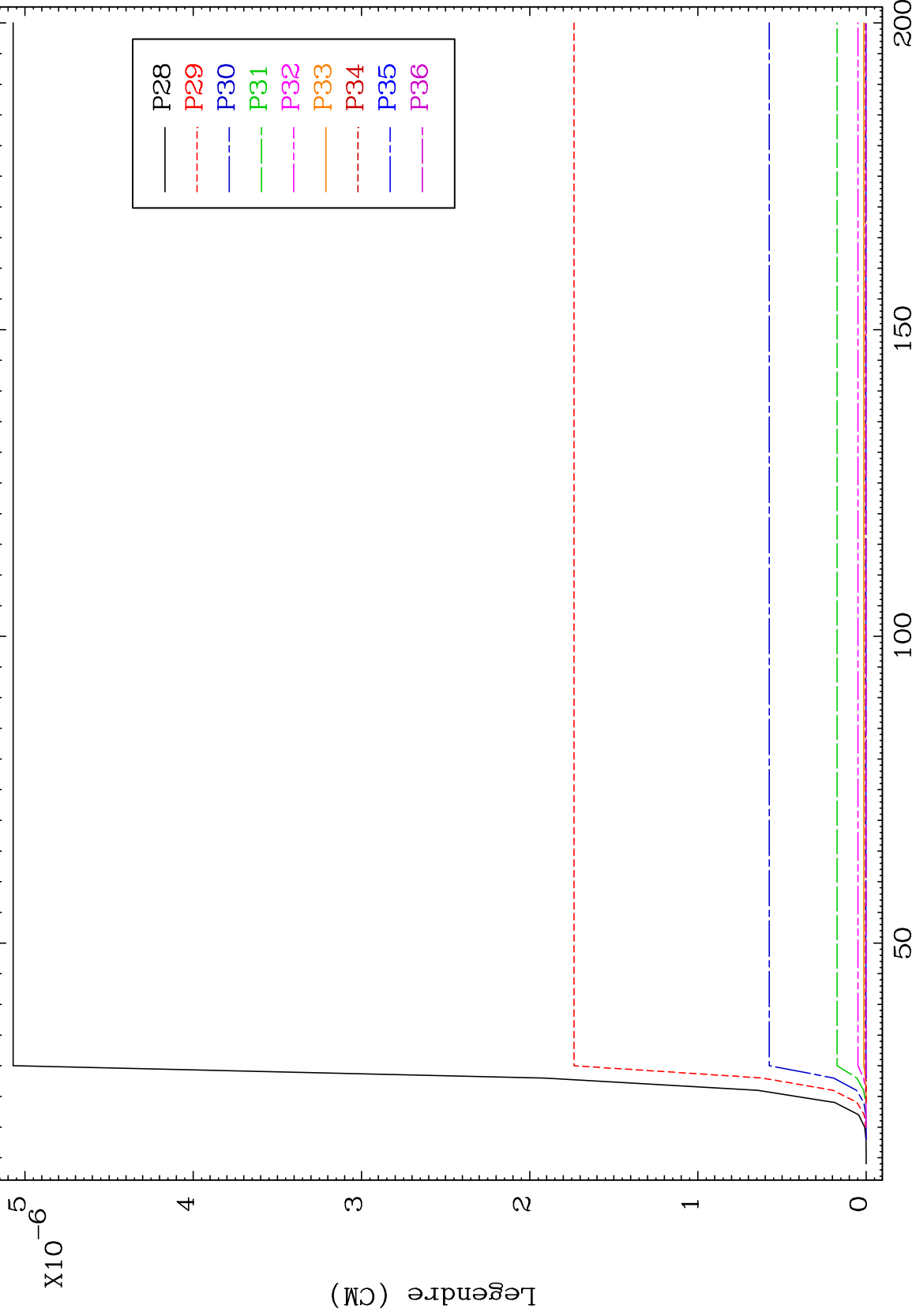
66

58-Ce-139

MAT 5834

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

58-Ce-139



67

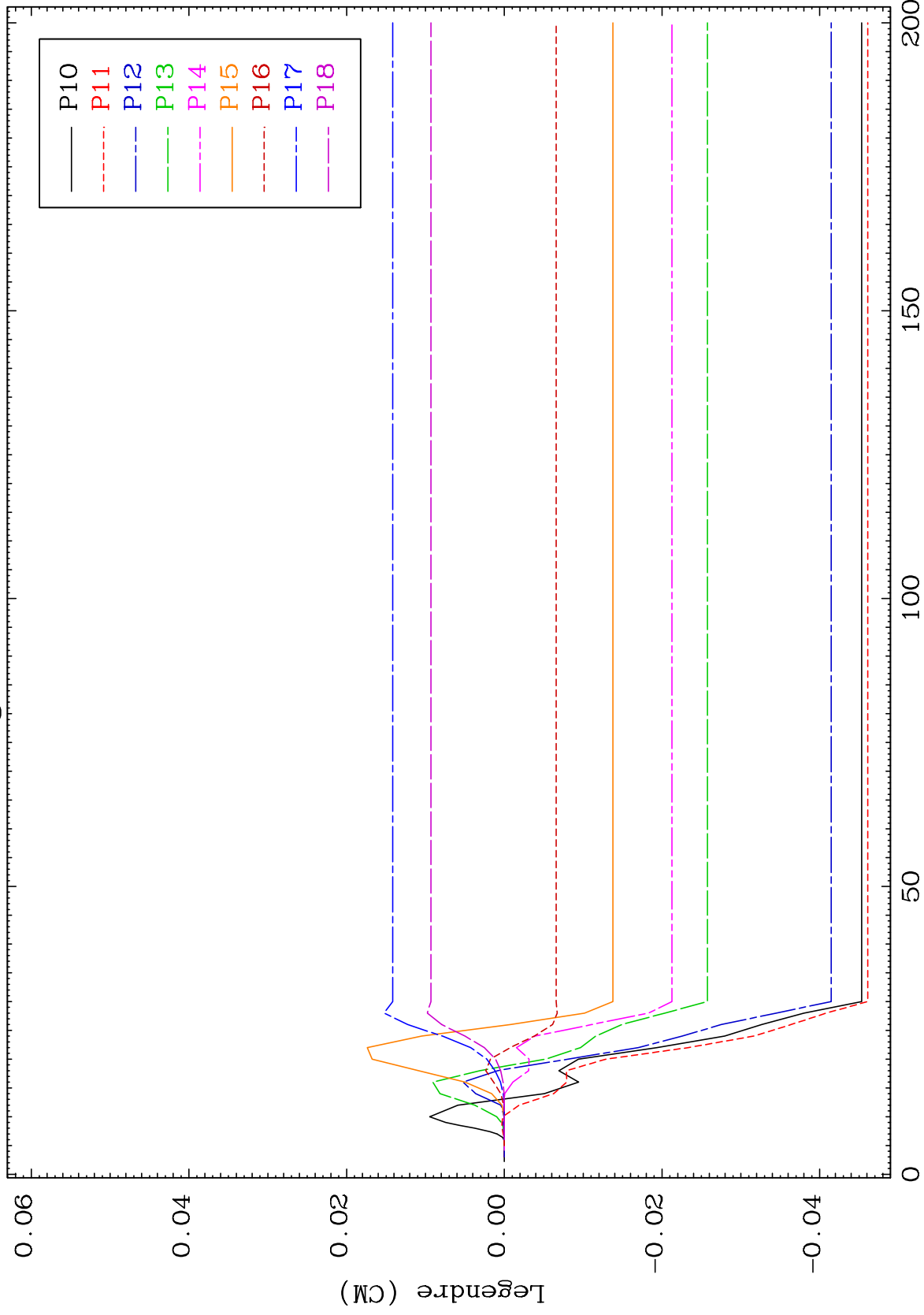
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



69

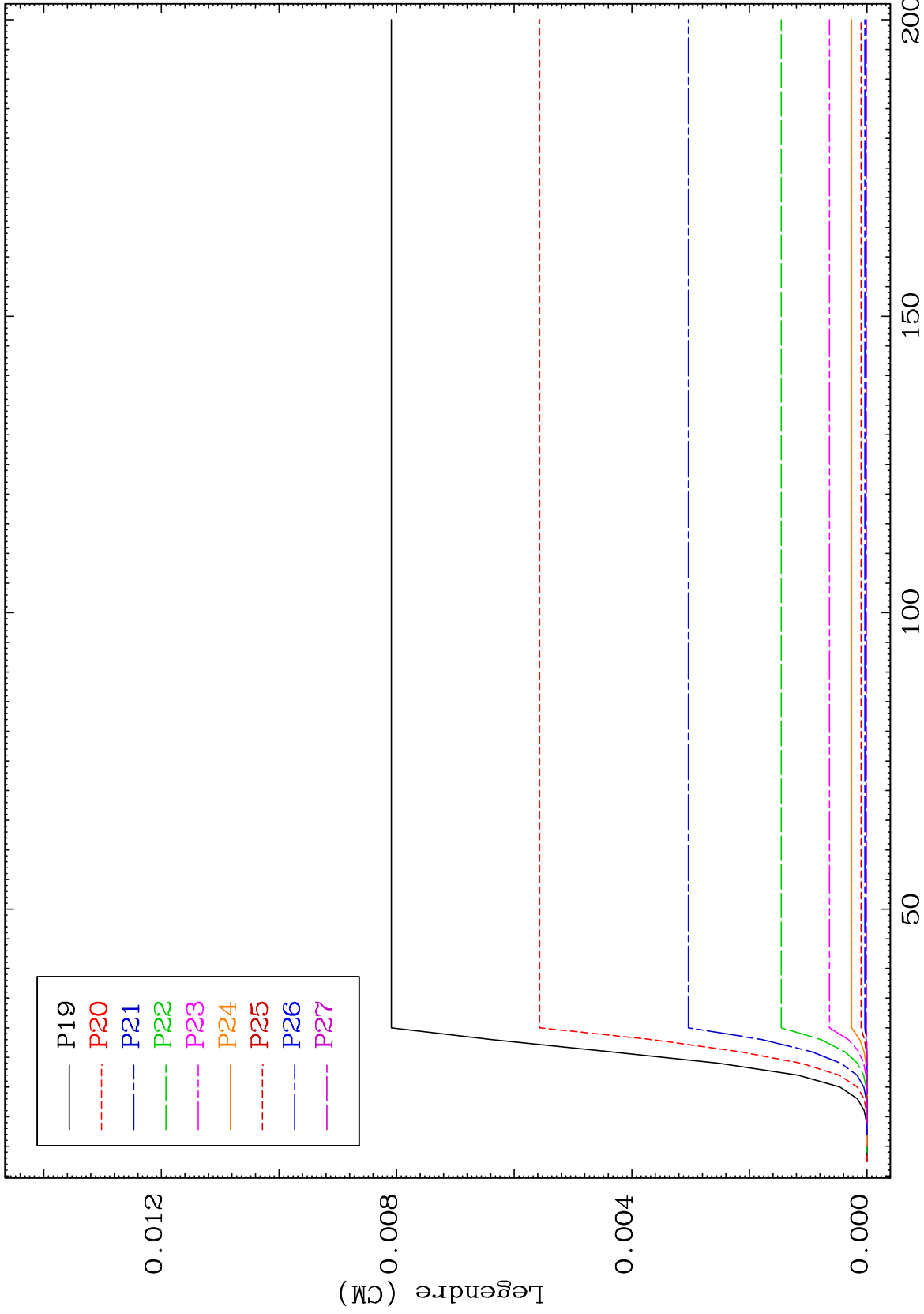
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



70

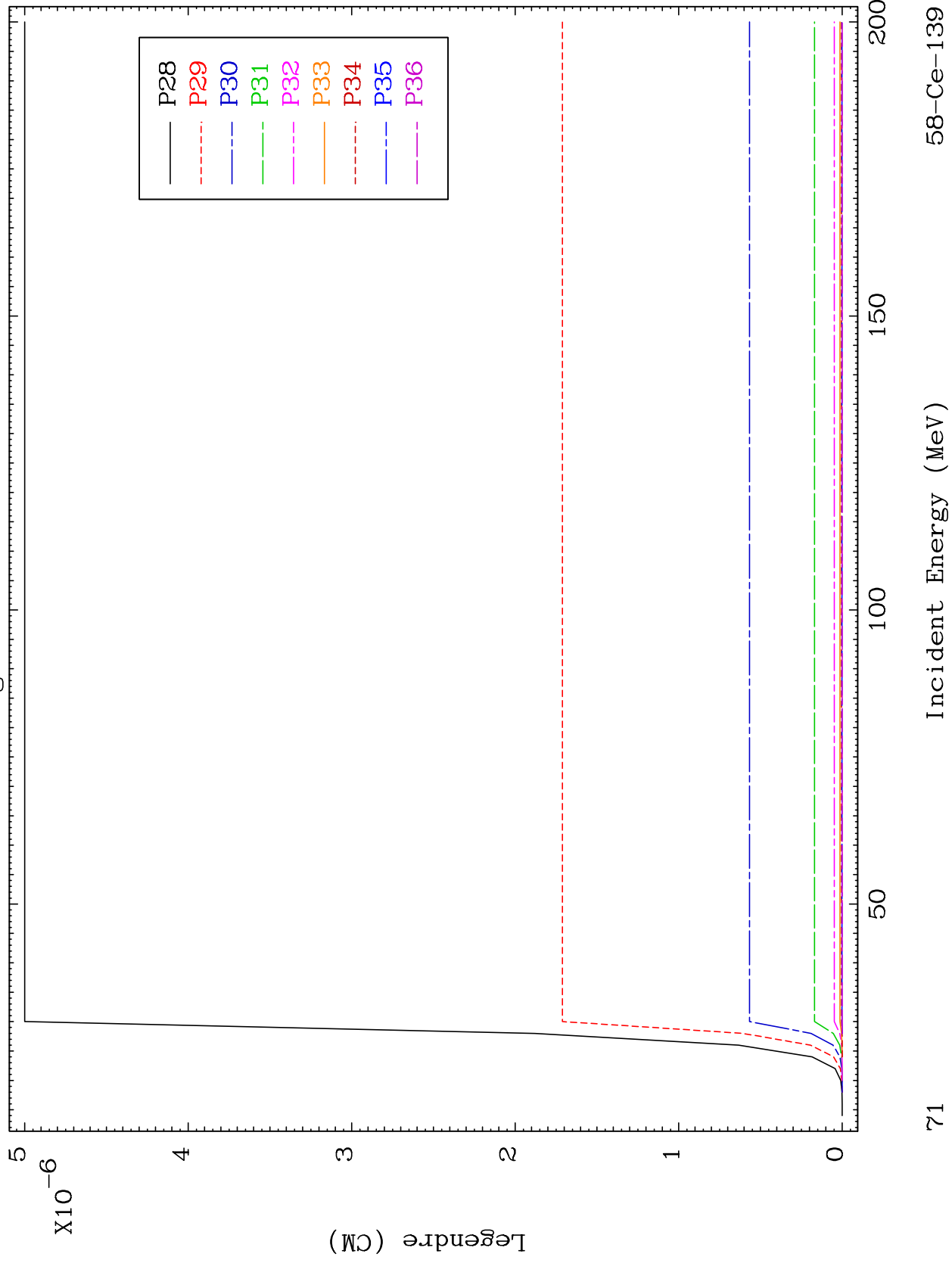
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

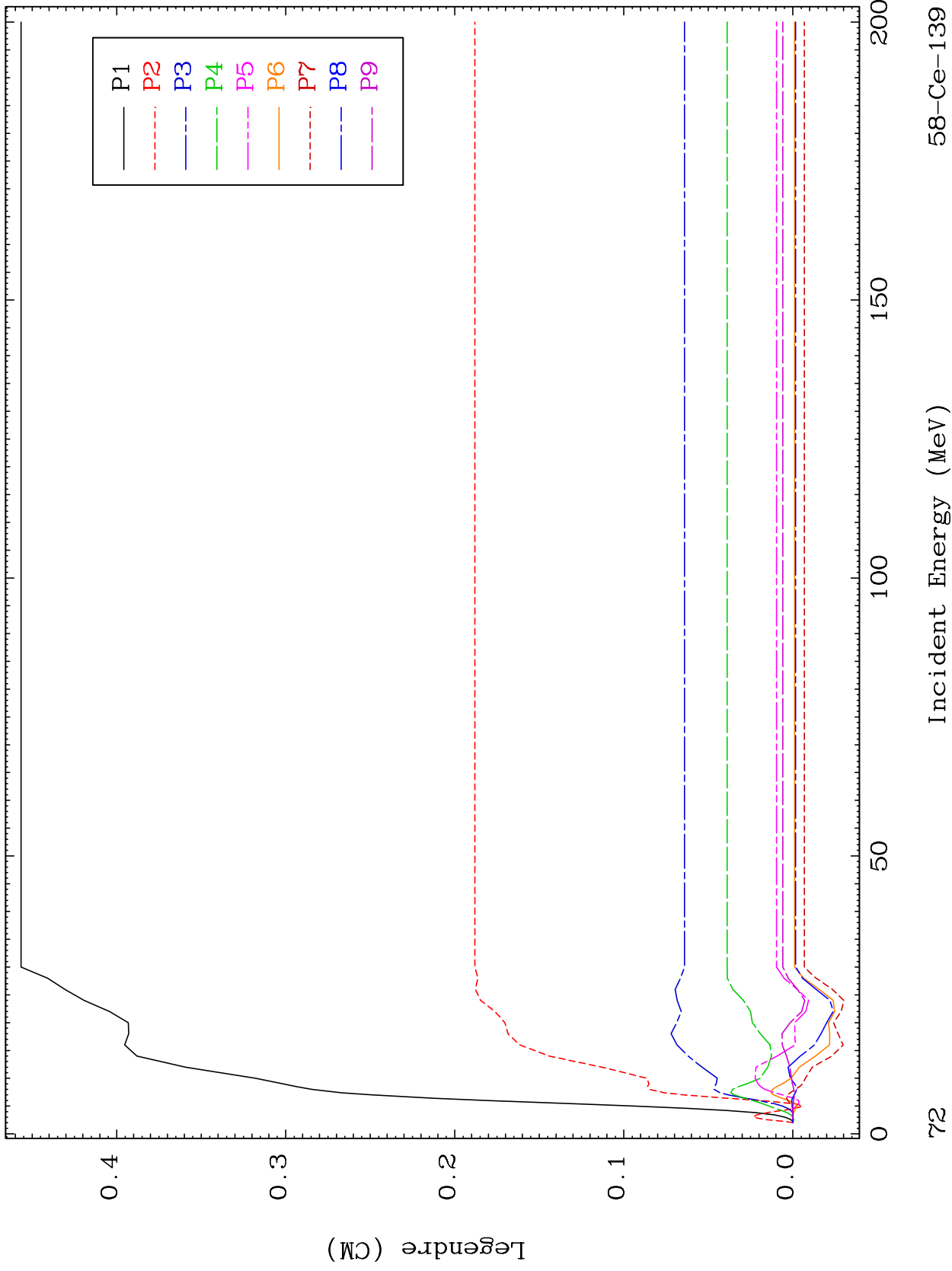
58-Ce-139



MAT 5834

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

58-Ce-139



58-Ce-139

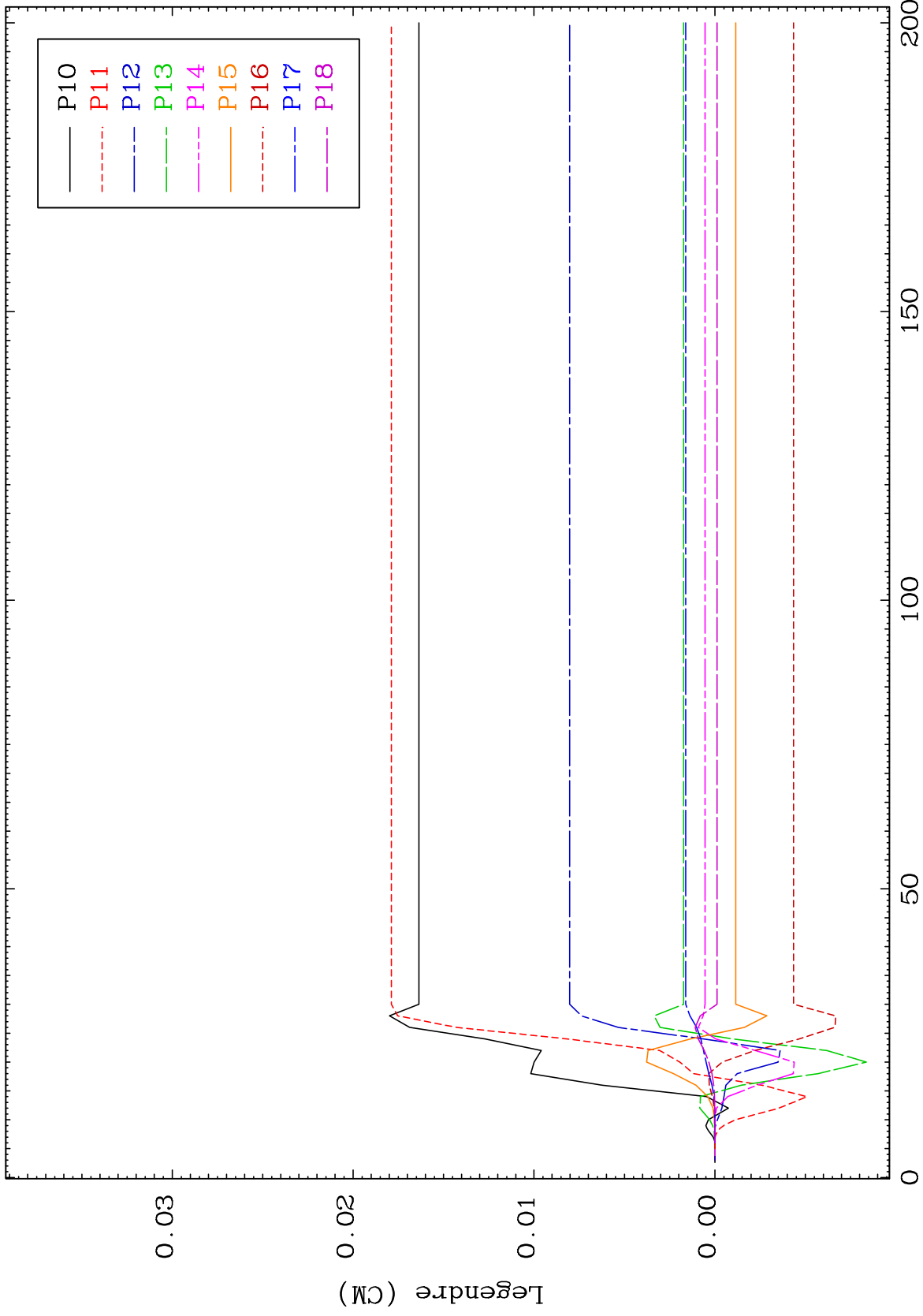
Incident Energy (MeV)

72

MAT 5834

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

58-Ce-139



73

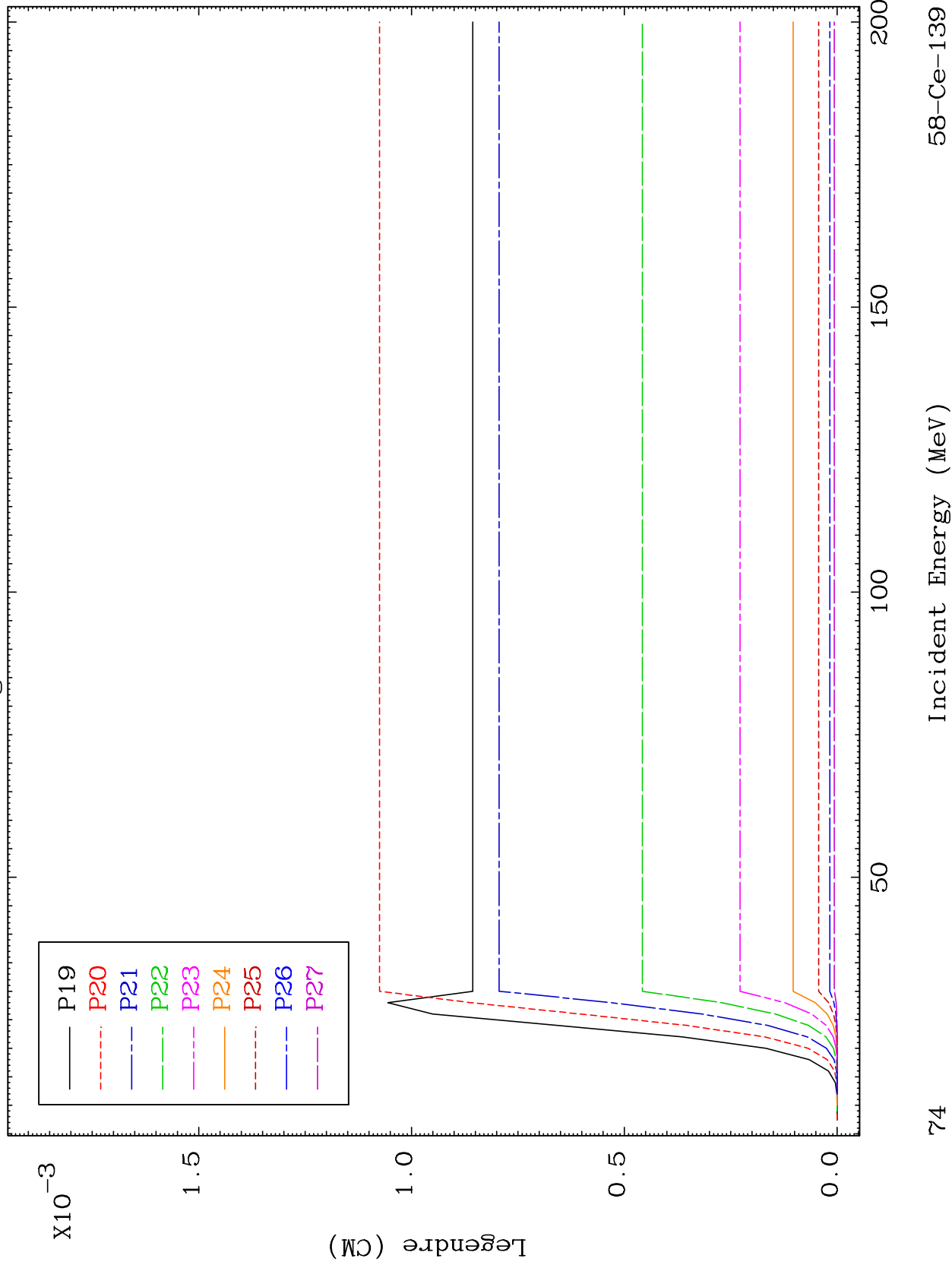
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

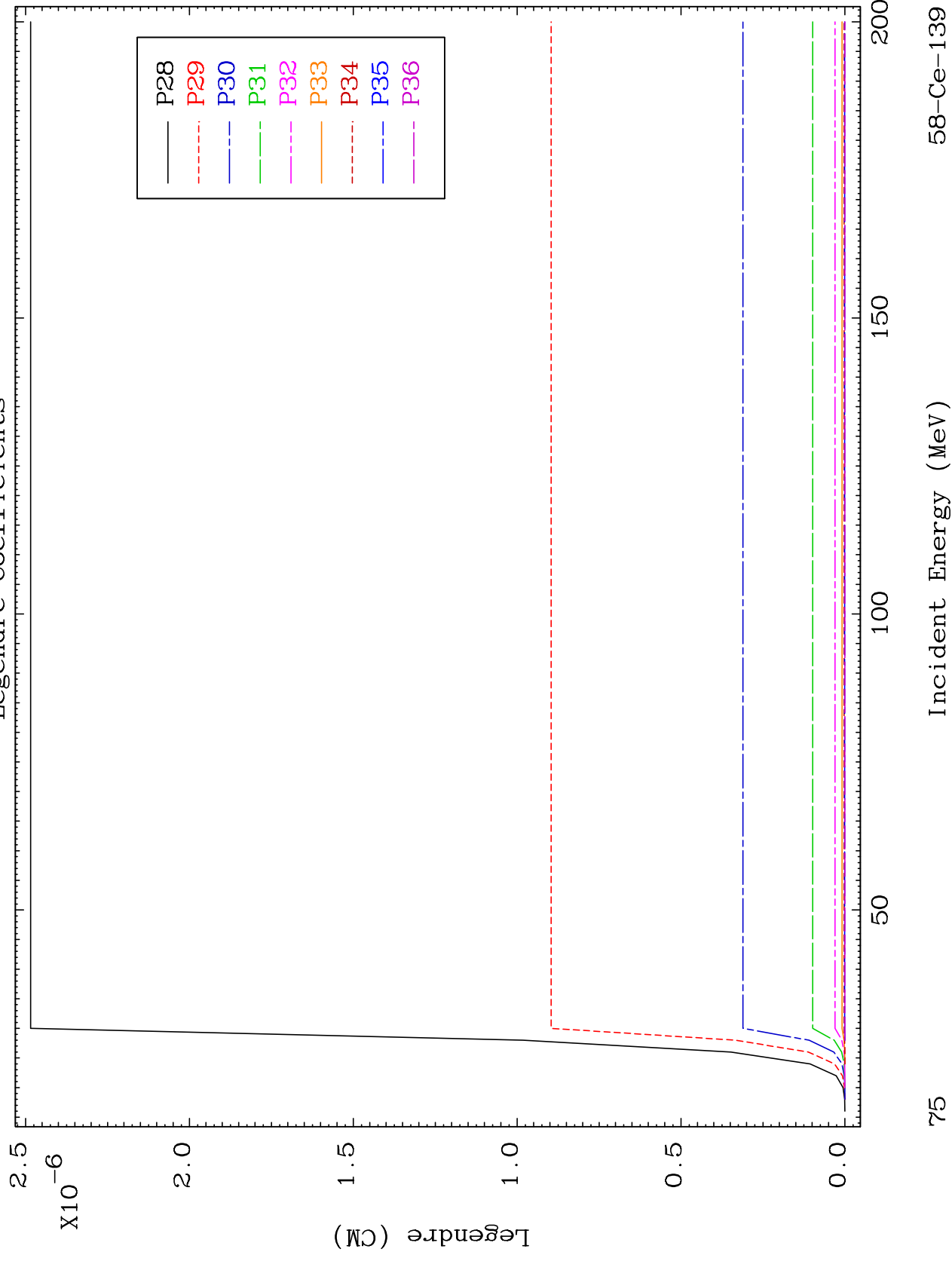
58-Ce-139



MAT 5834

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

58-Ce-139



75

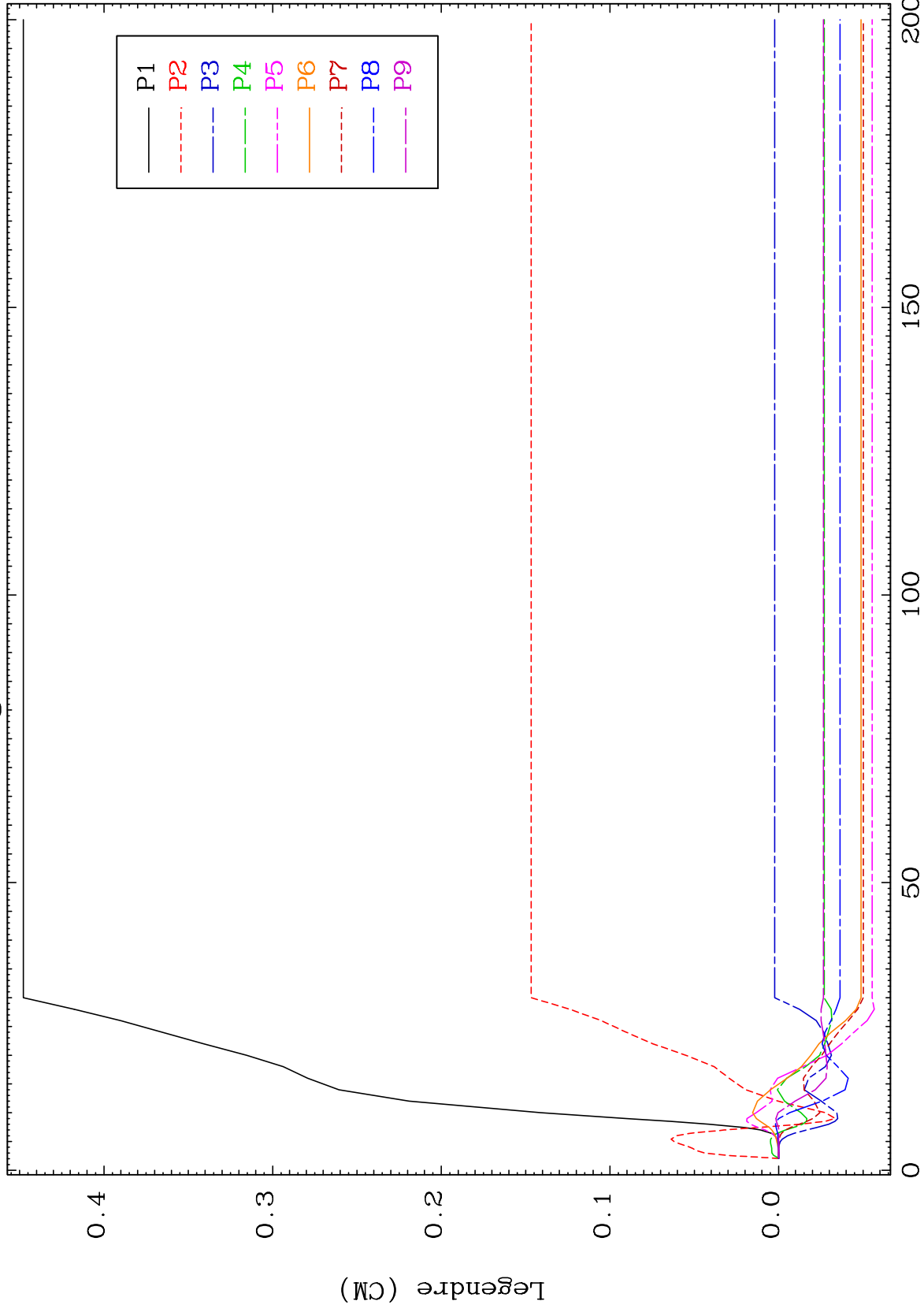
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



76

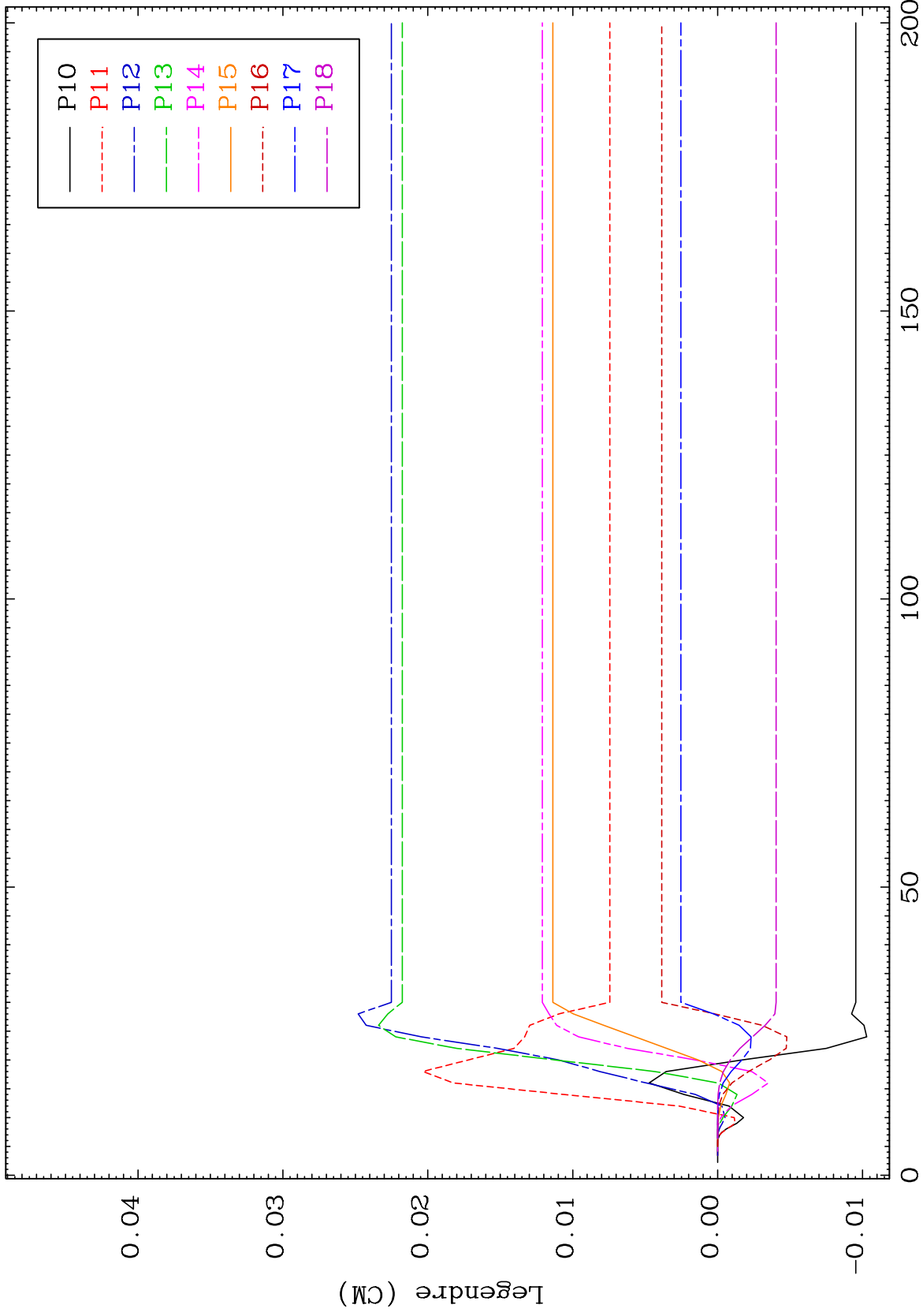
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



77

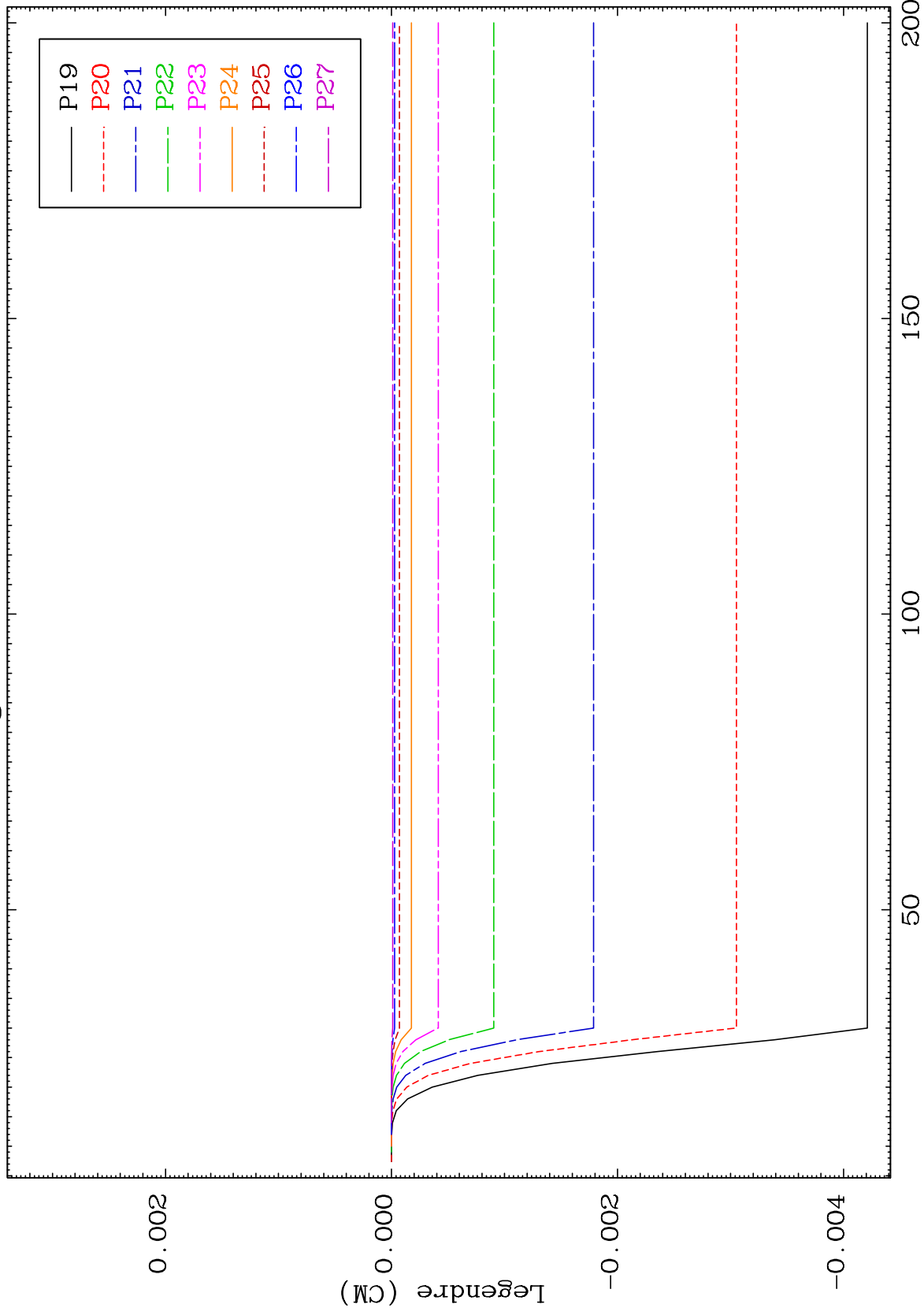
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



78

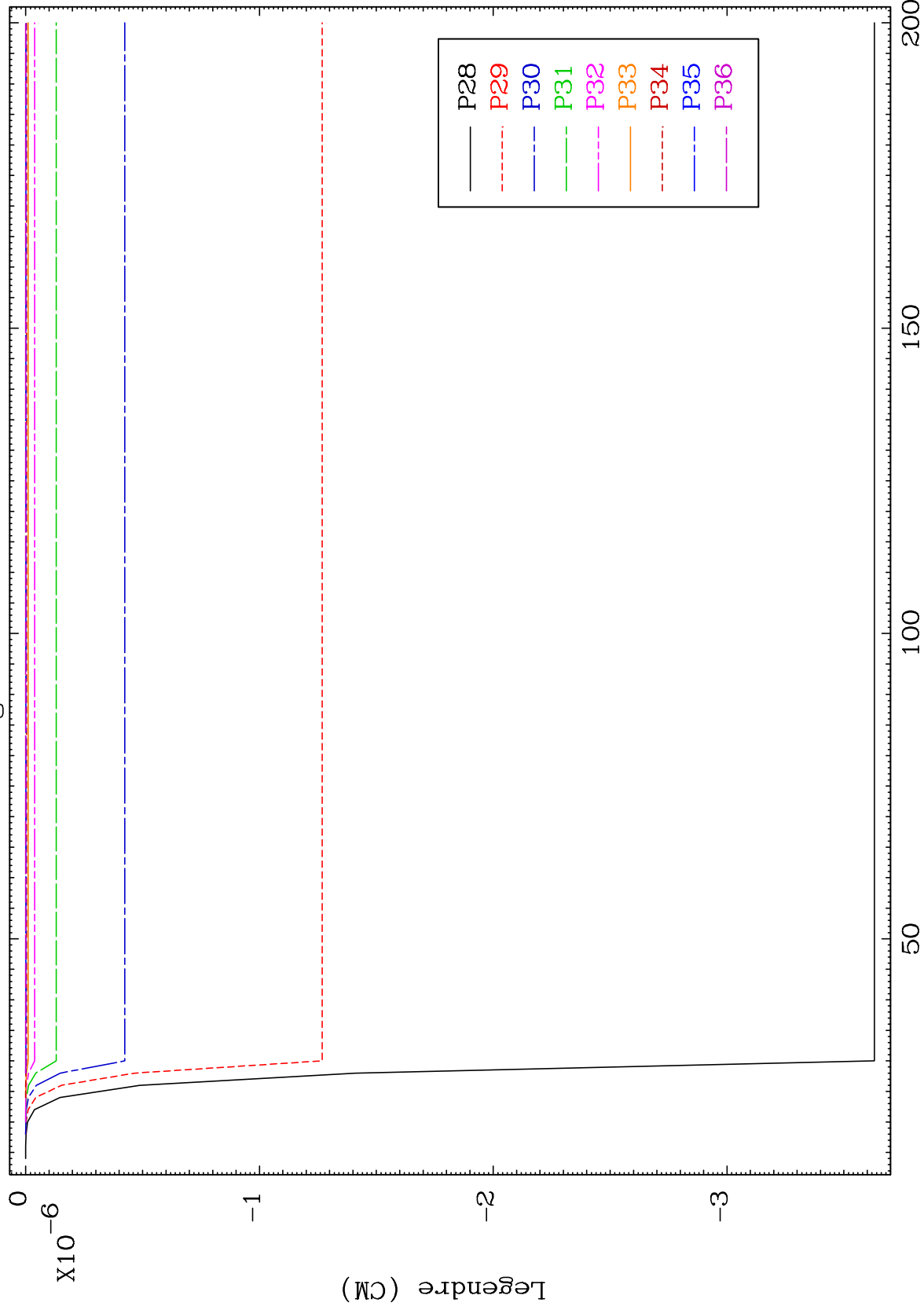
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



79

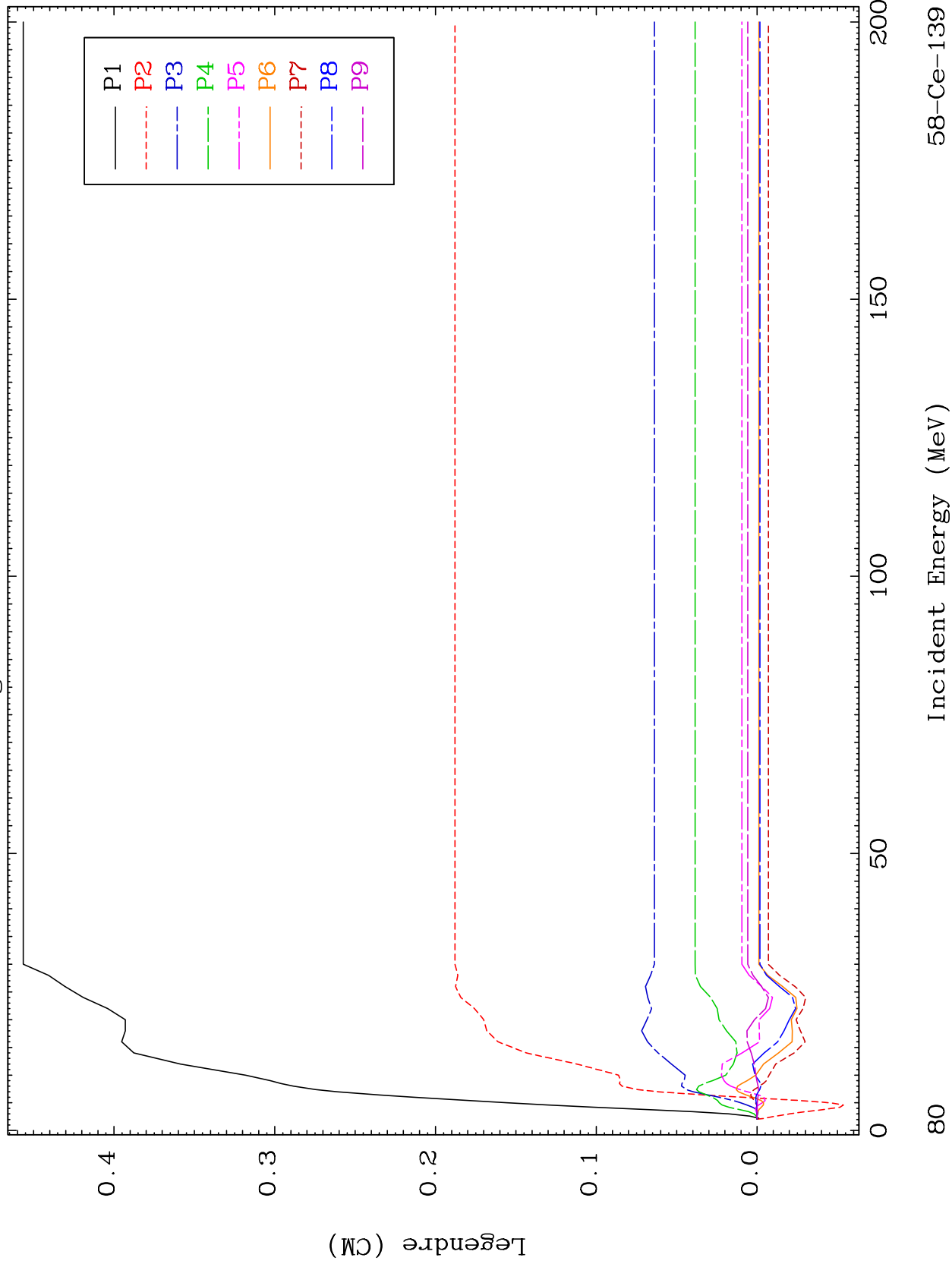
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139

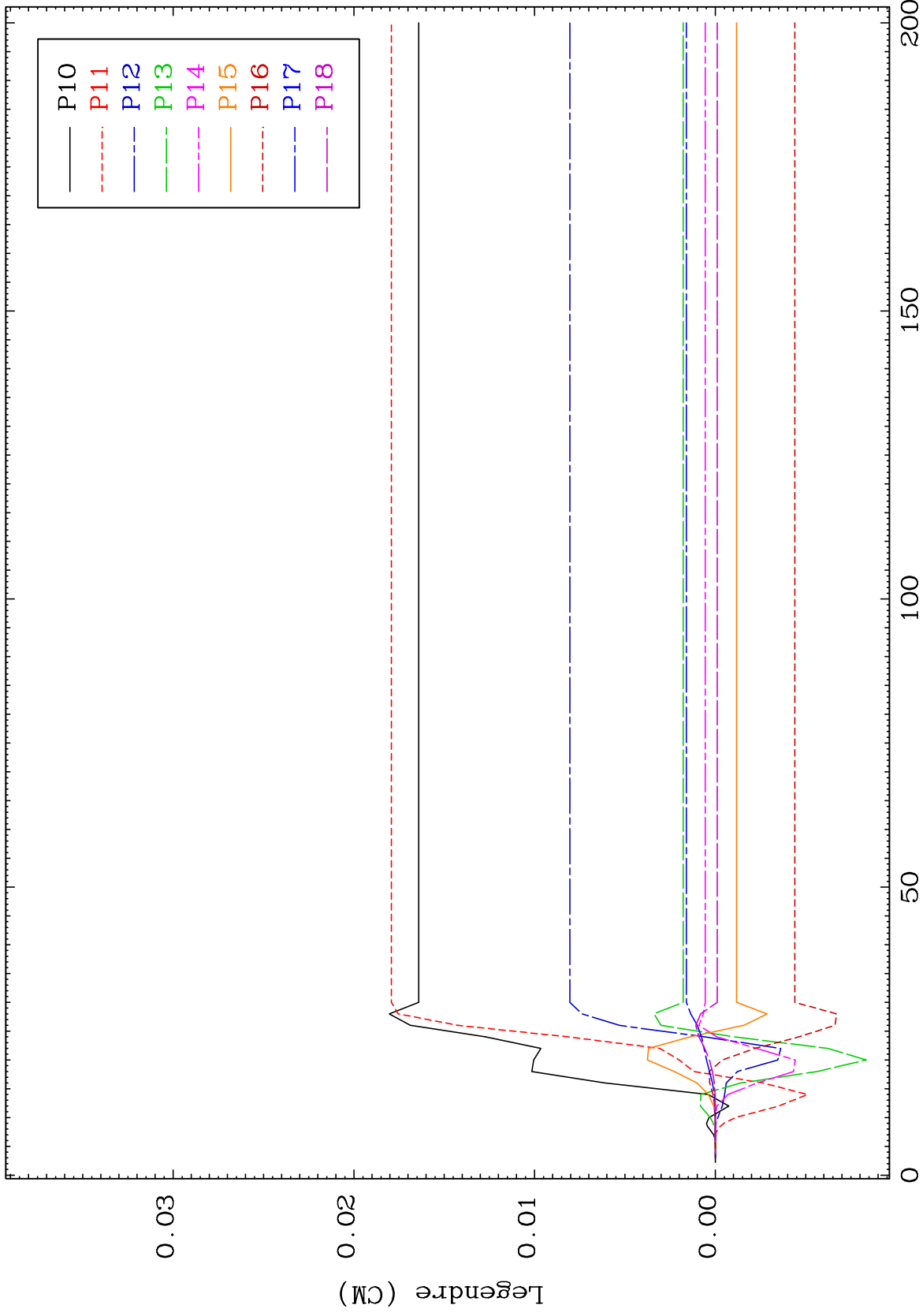


58-Ce-139

MAT 5834

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

58-Ce-139



81

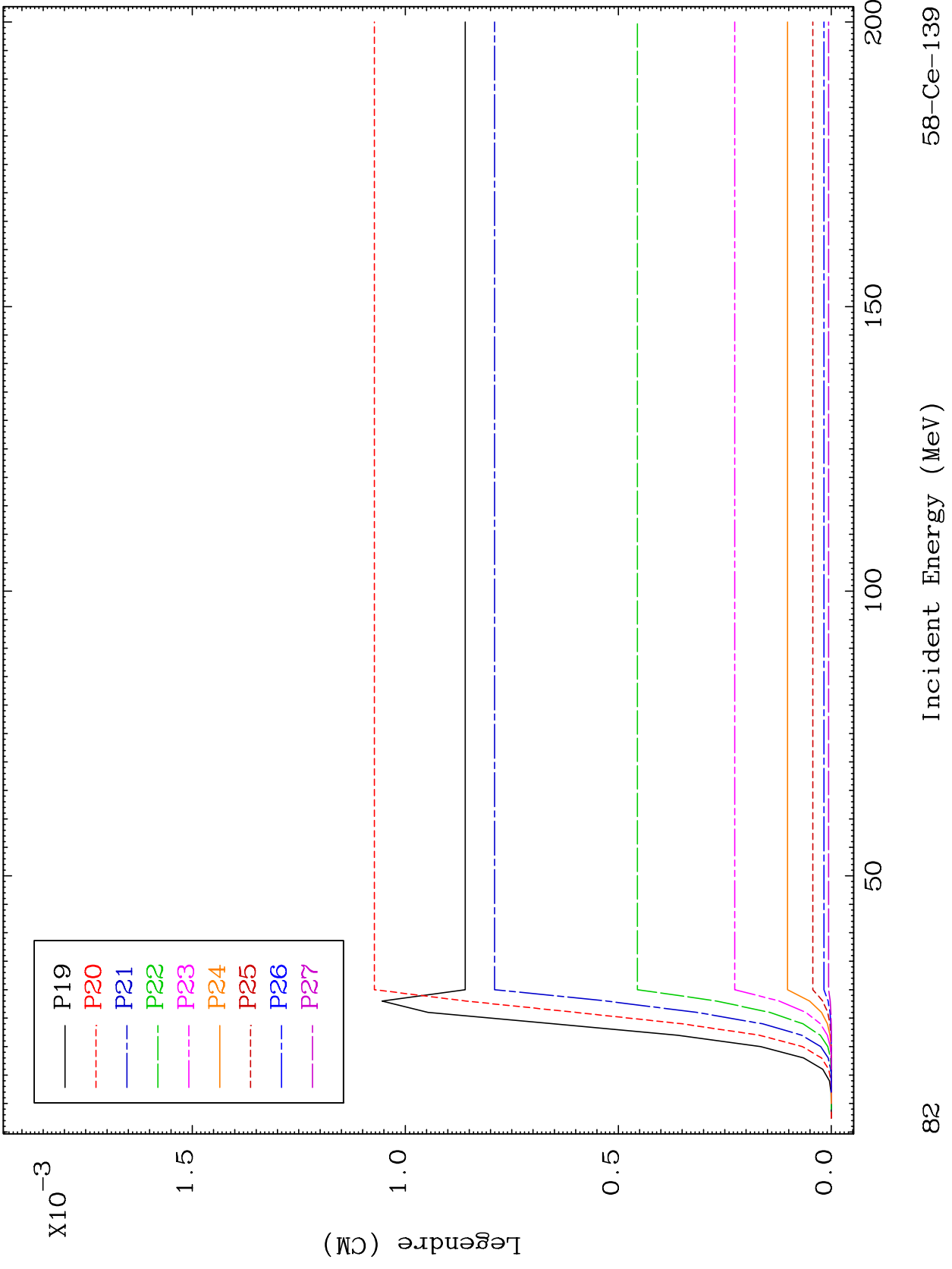
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

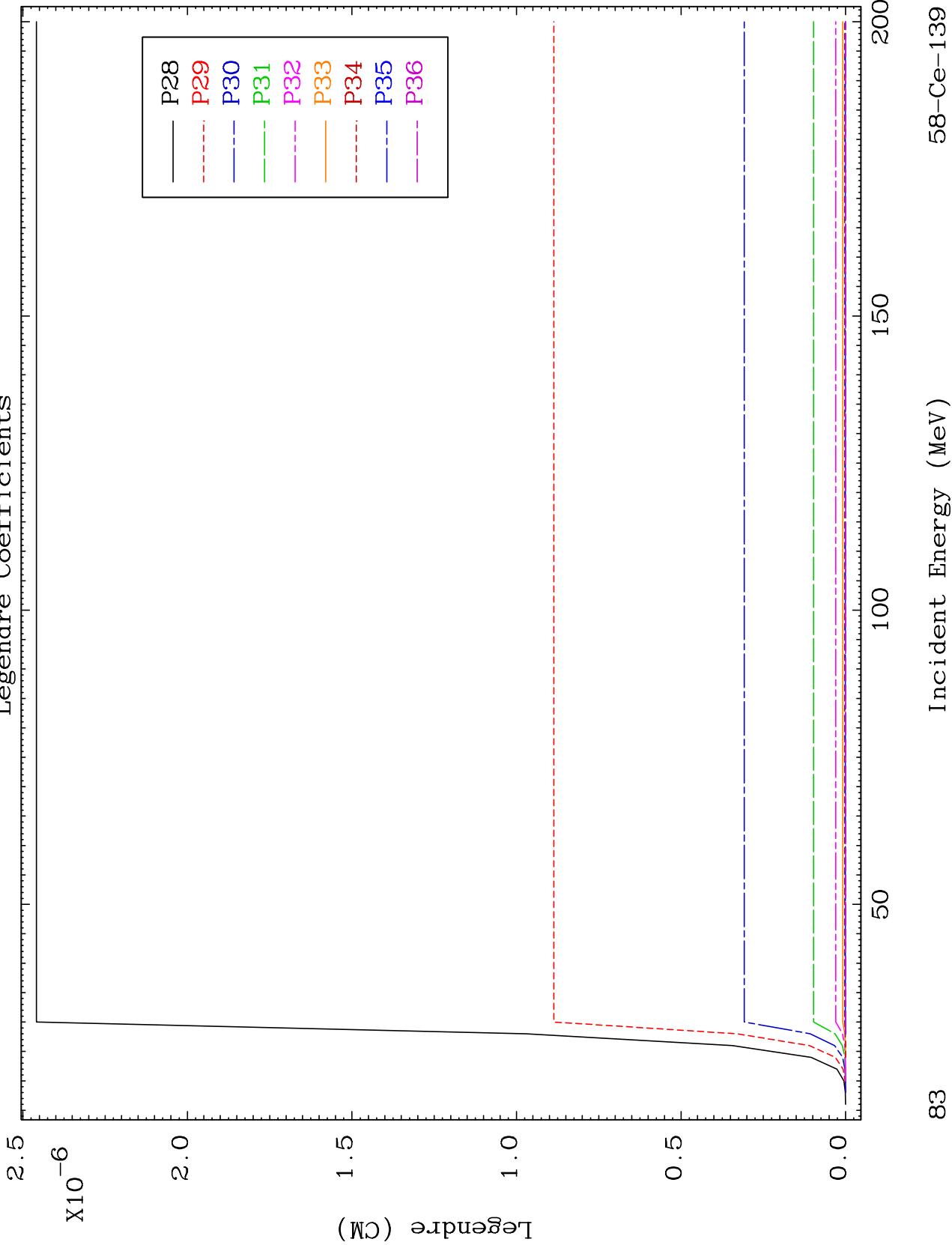
58-Ce-139



MAT 5834

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

58-Ce-139



83

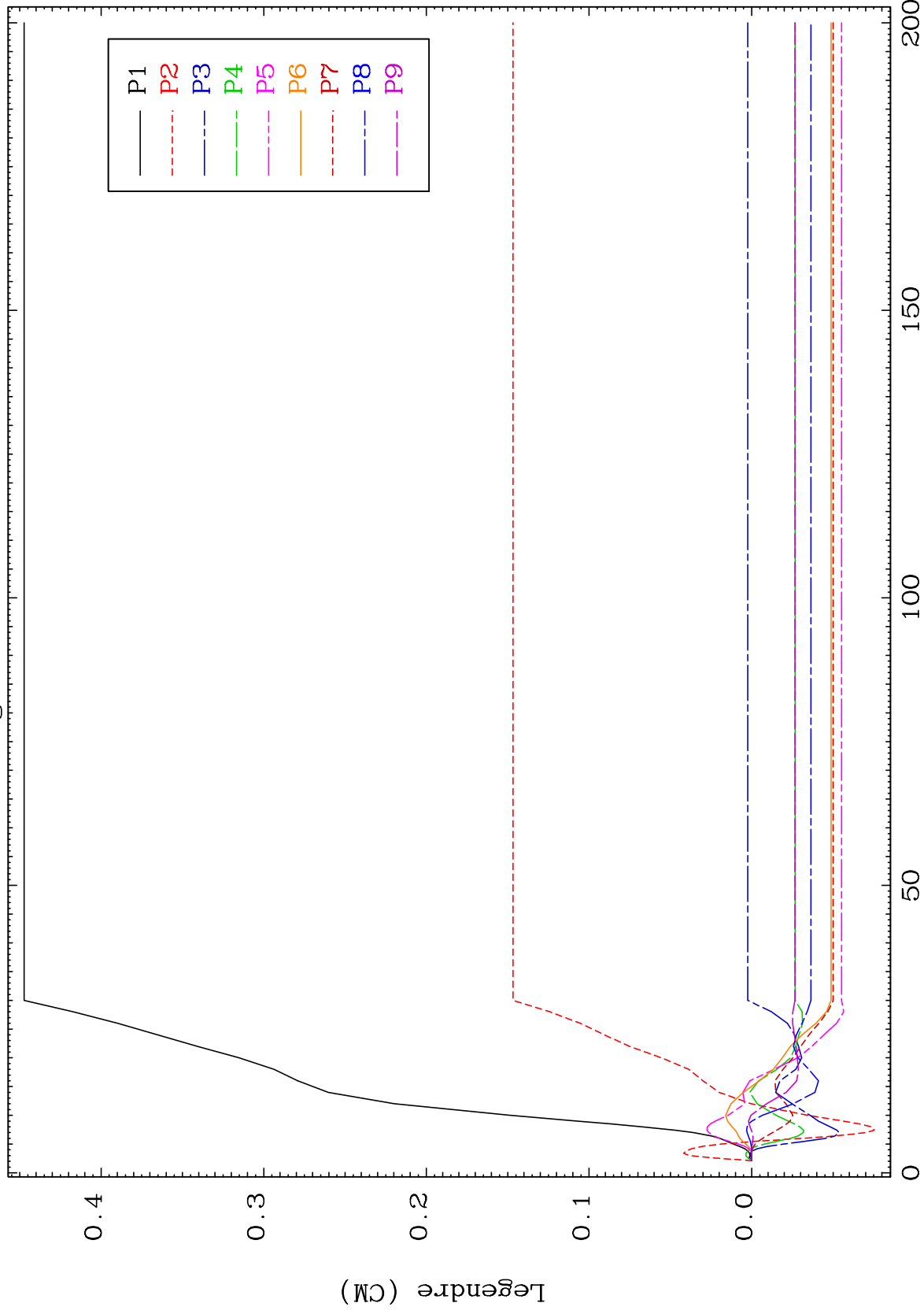
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



84

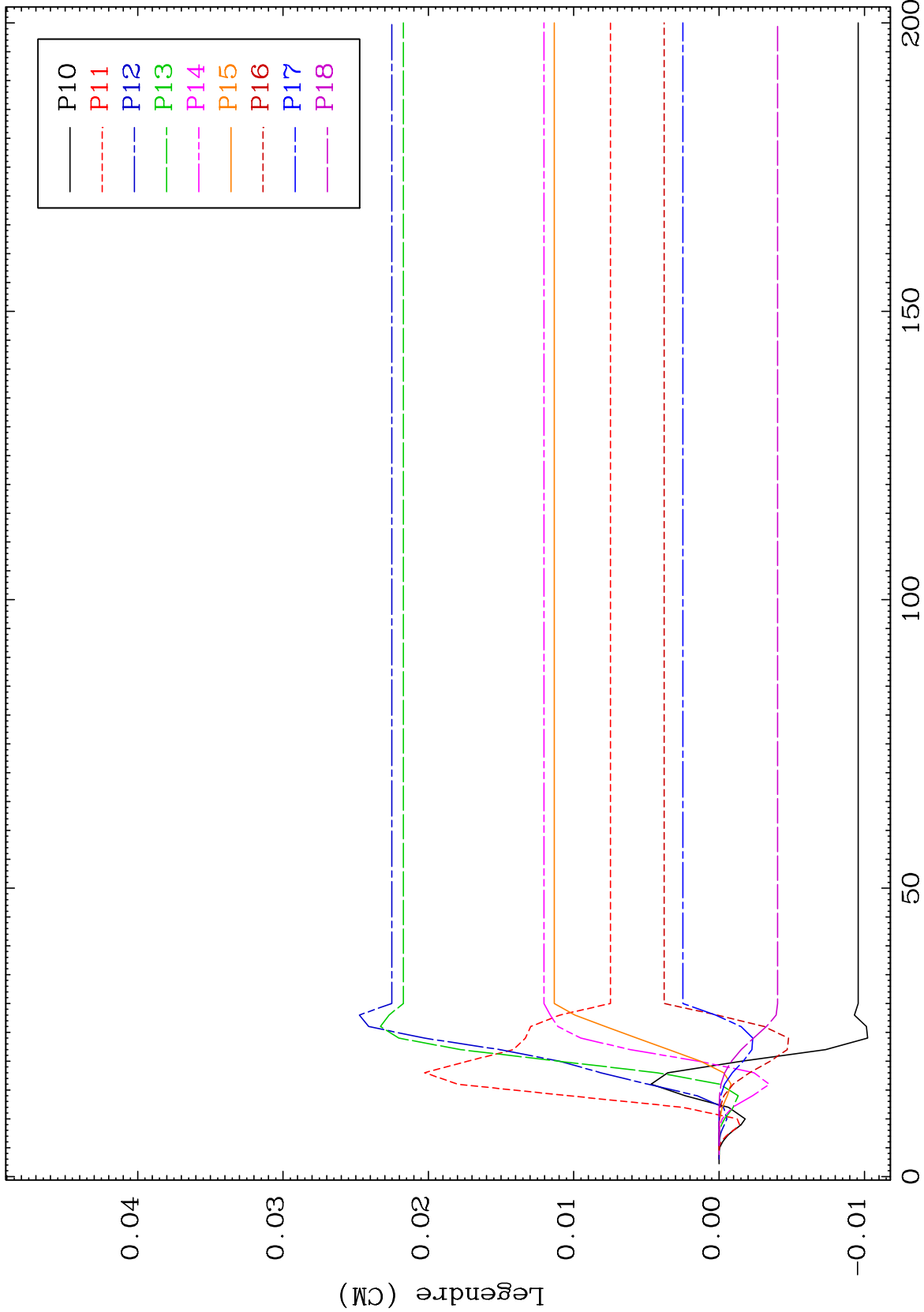
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



85

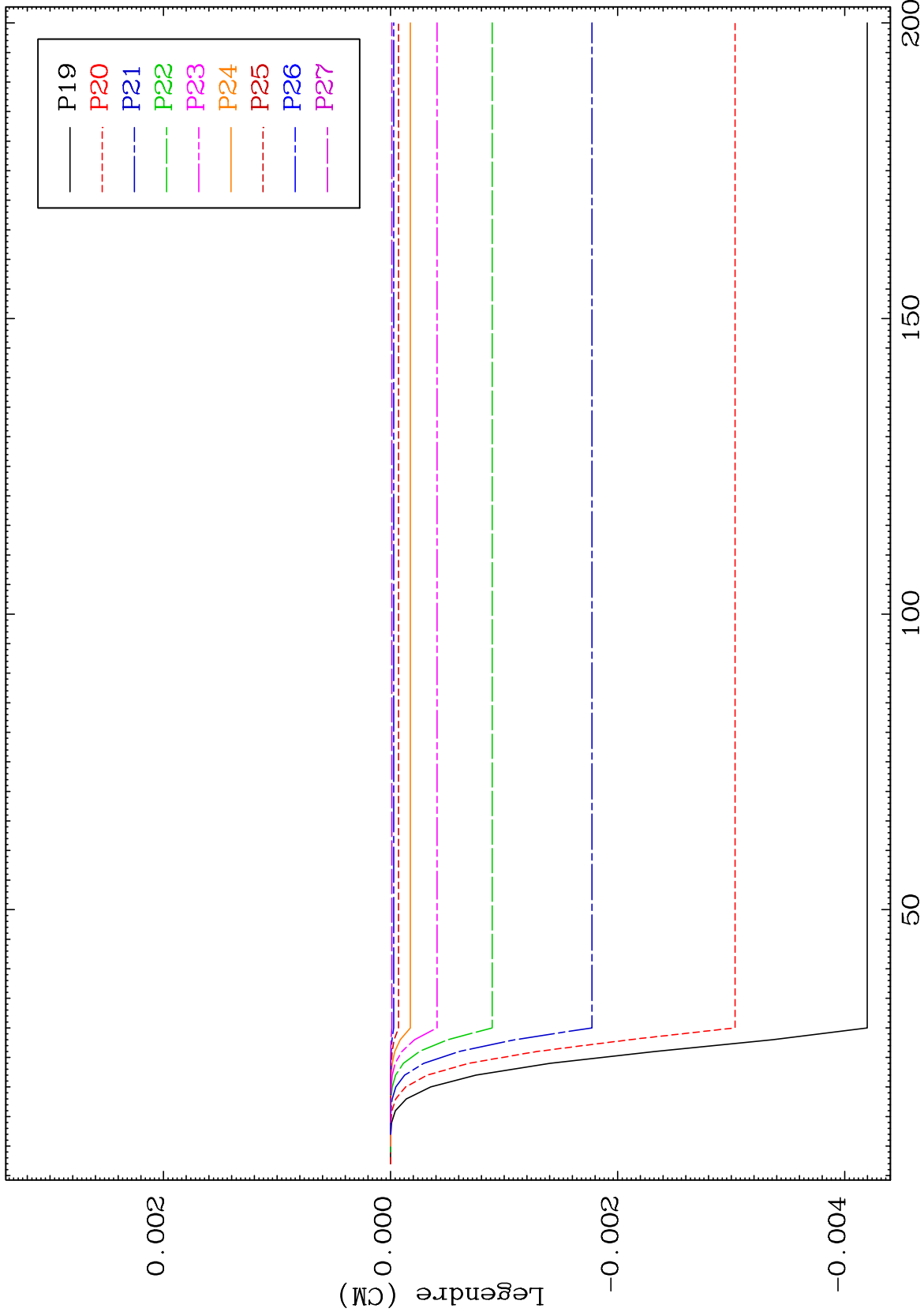
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

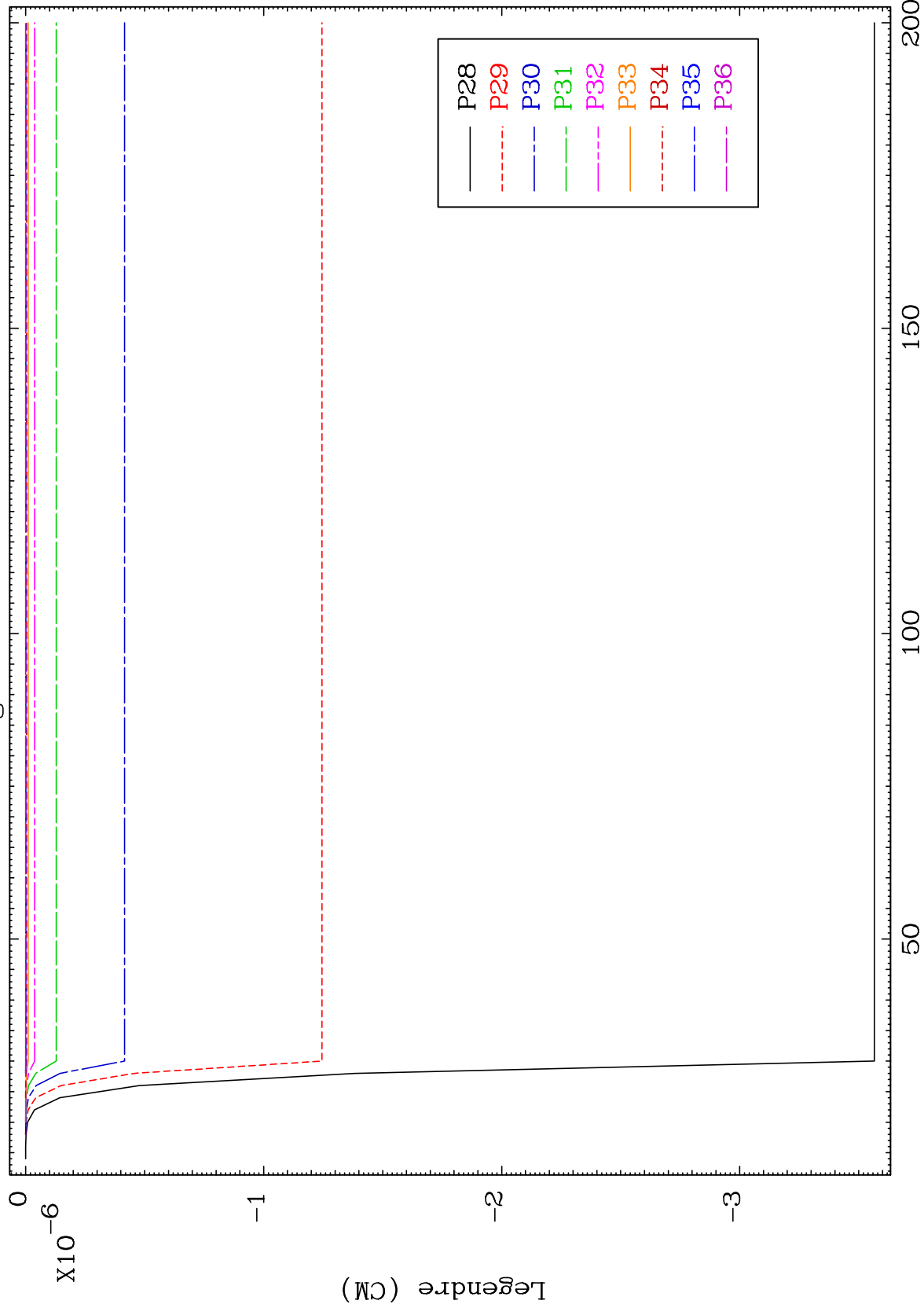
58-Ce-139



MAT 5834

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

58-Ce-139



87

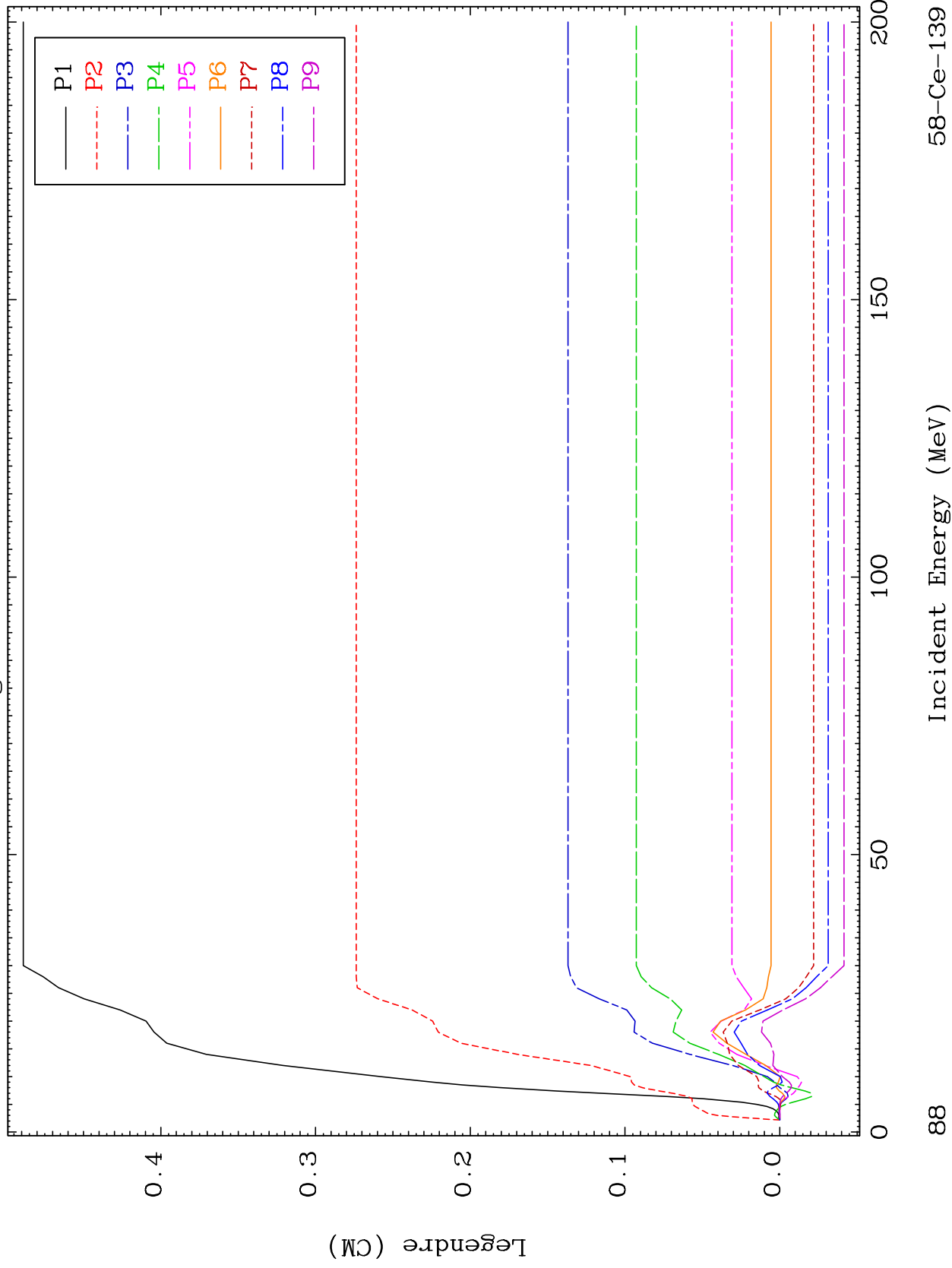
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



58-Ce-139

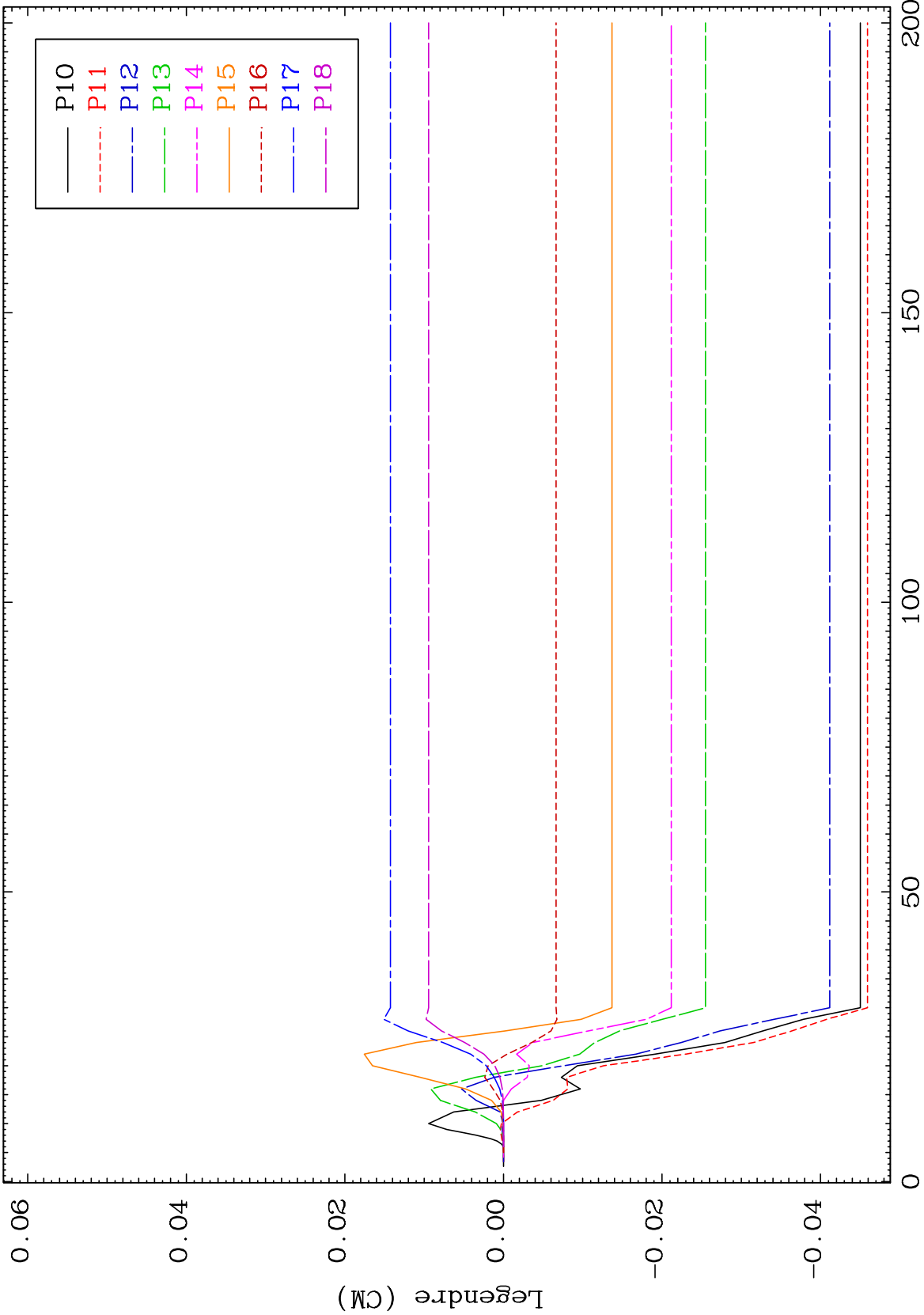
Incident Energy (MeV)

88

MAT 5834

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

58-Ce-139



89

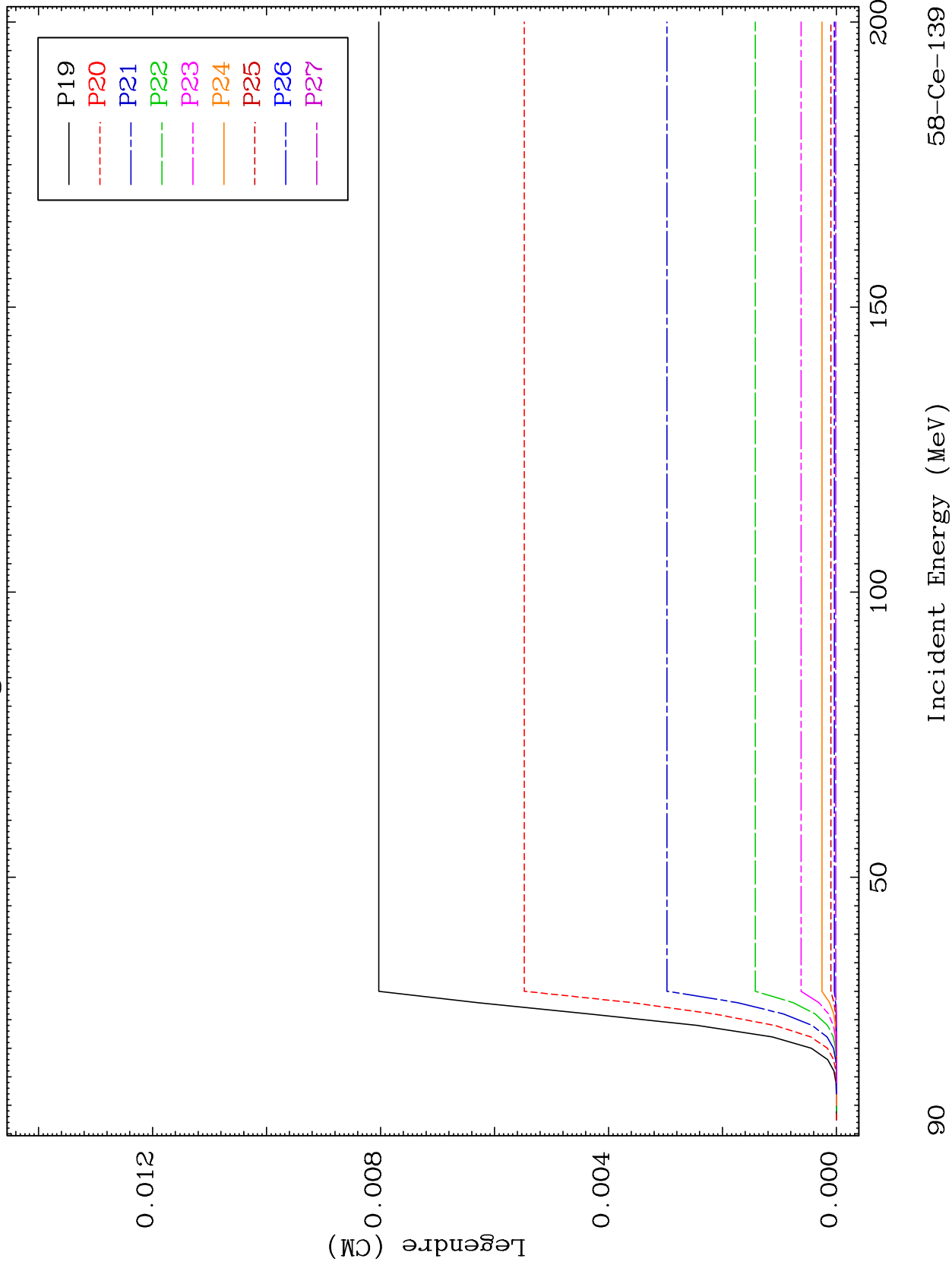
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

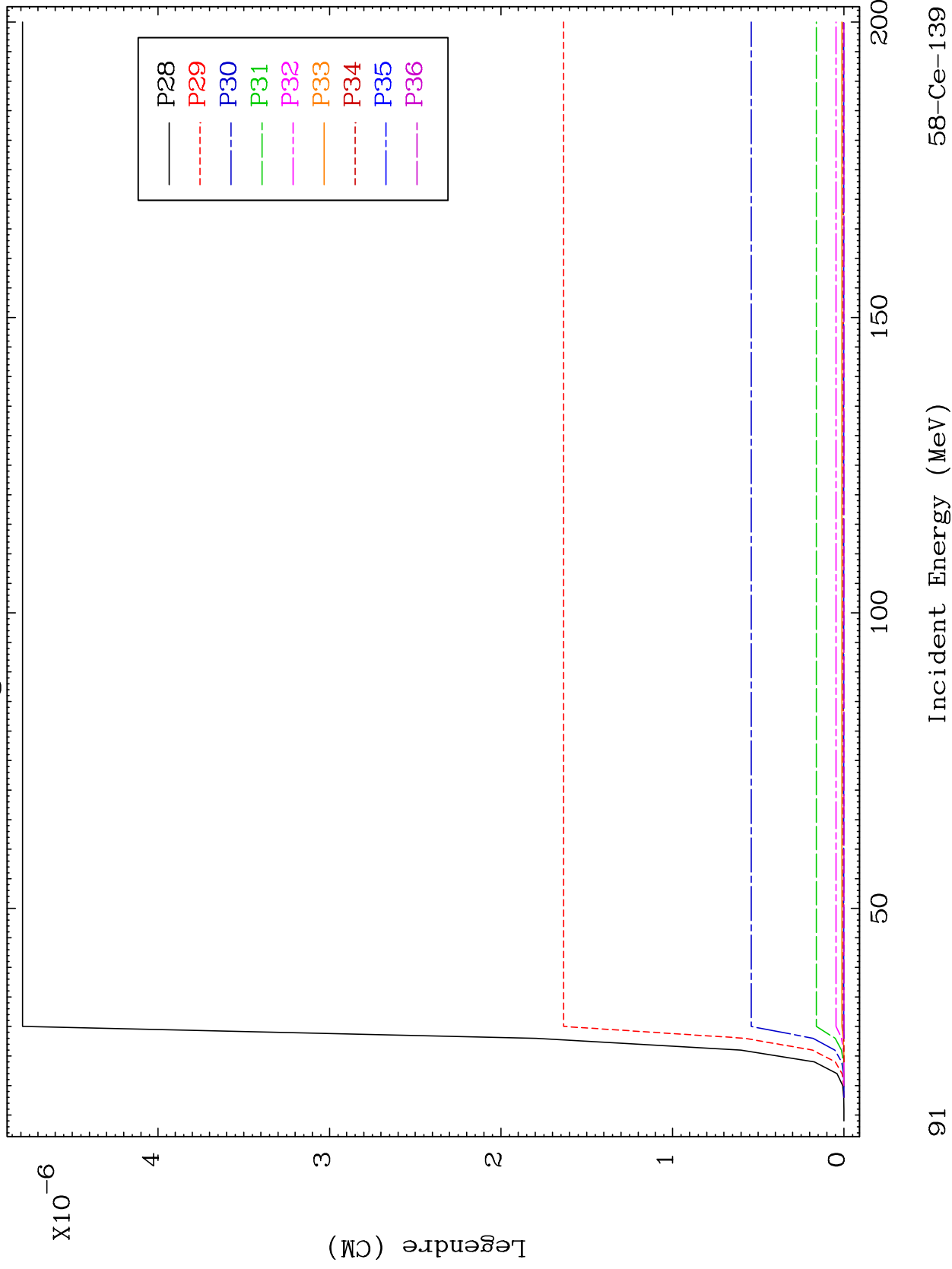
58-Ce-139



MAT 5834

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

58-Ce-139

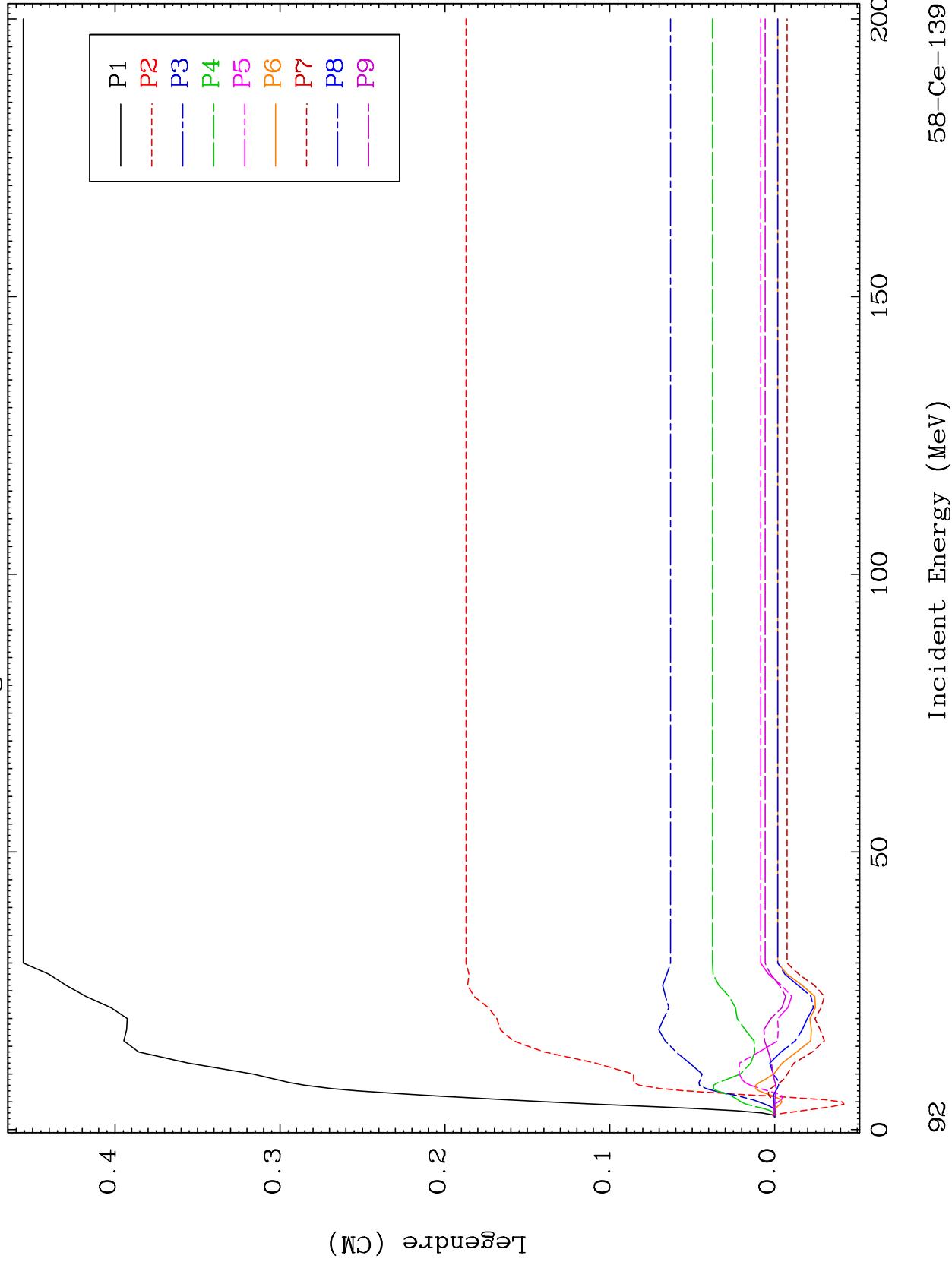


91

MAT 5834

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

58-Ce-139



58-Ce-139

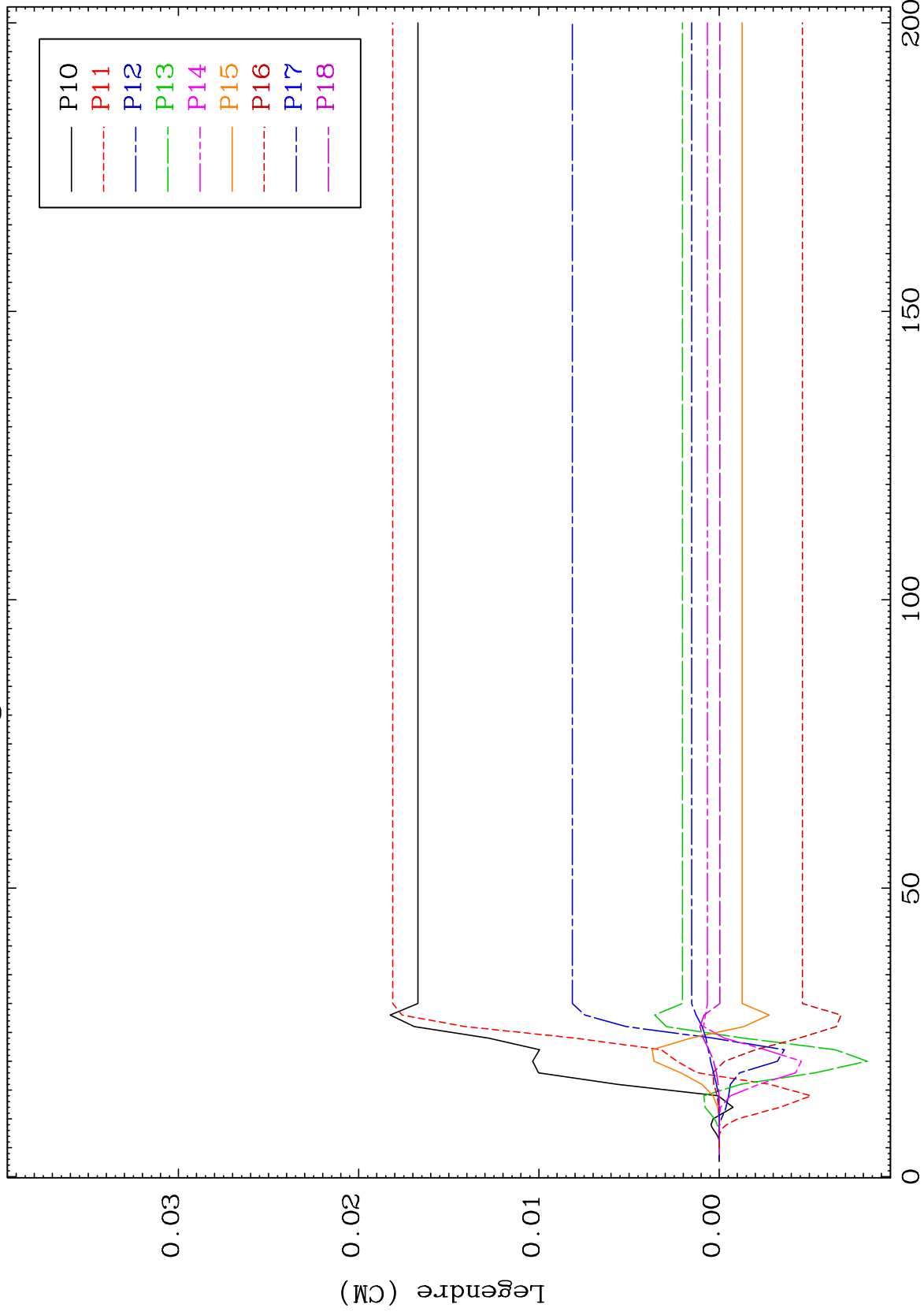
Incident Energy (MeV)

92

MAT 5834

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

58-Ce-139



93

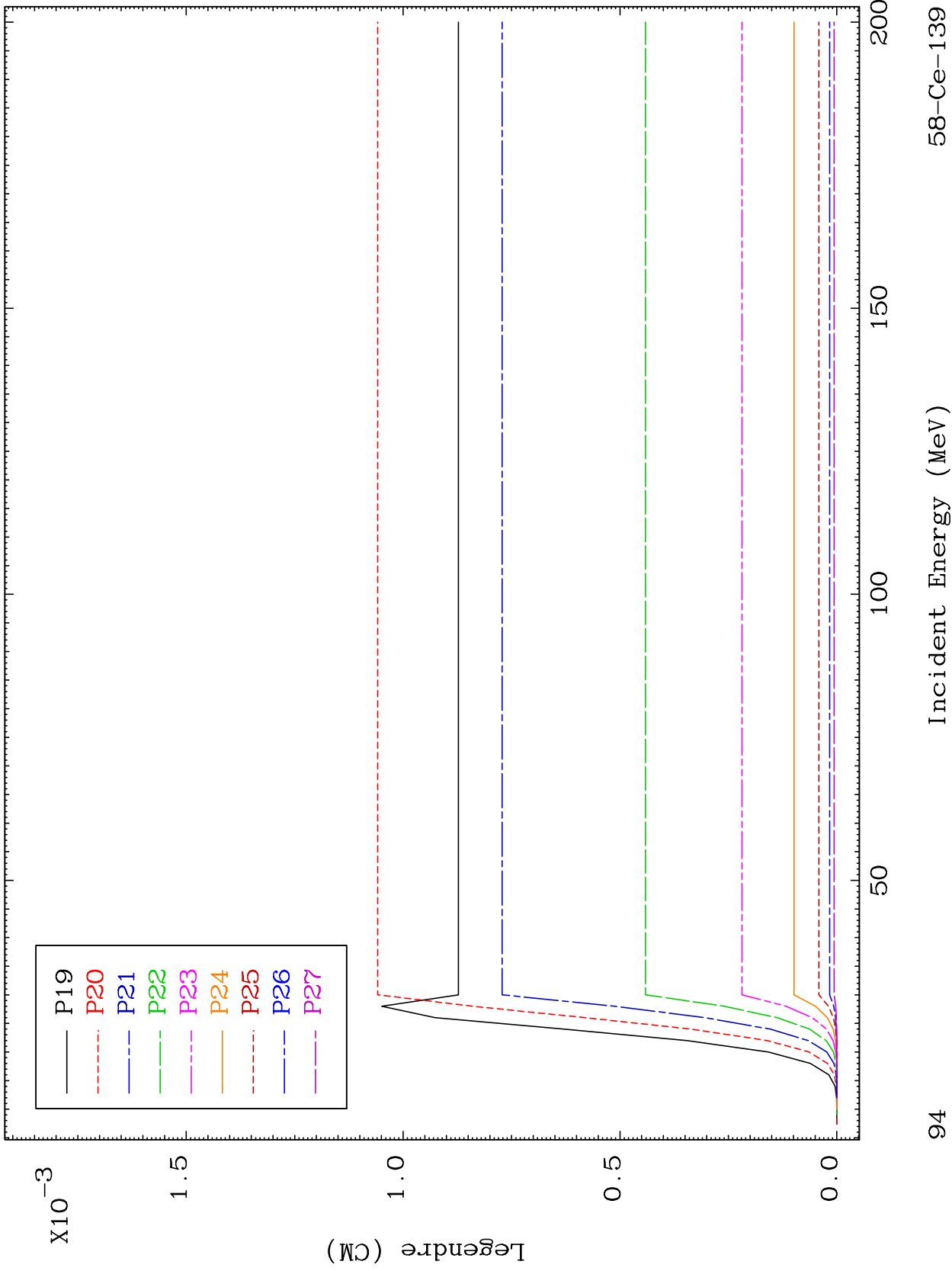
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

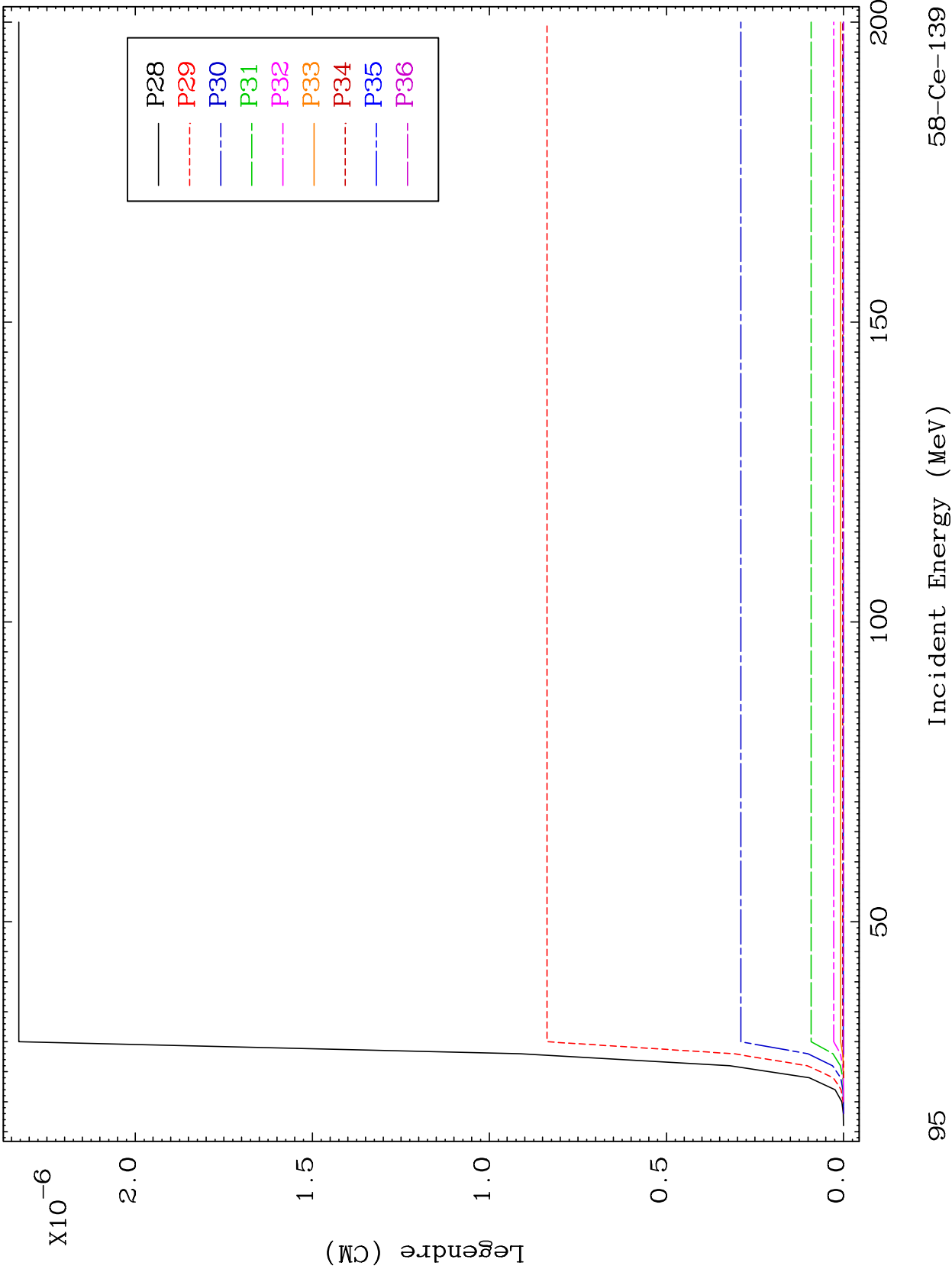
58-Ce-139



MAT 5834

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

58-Ce-139



95

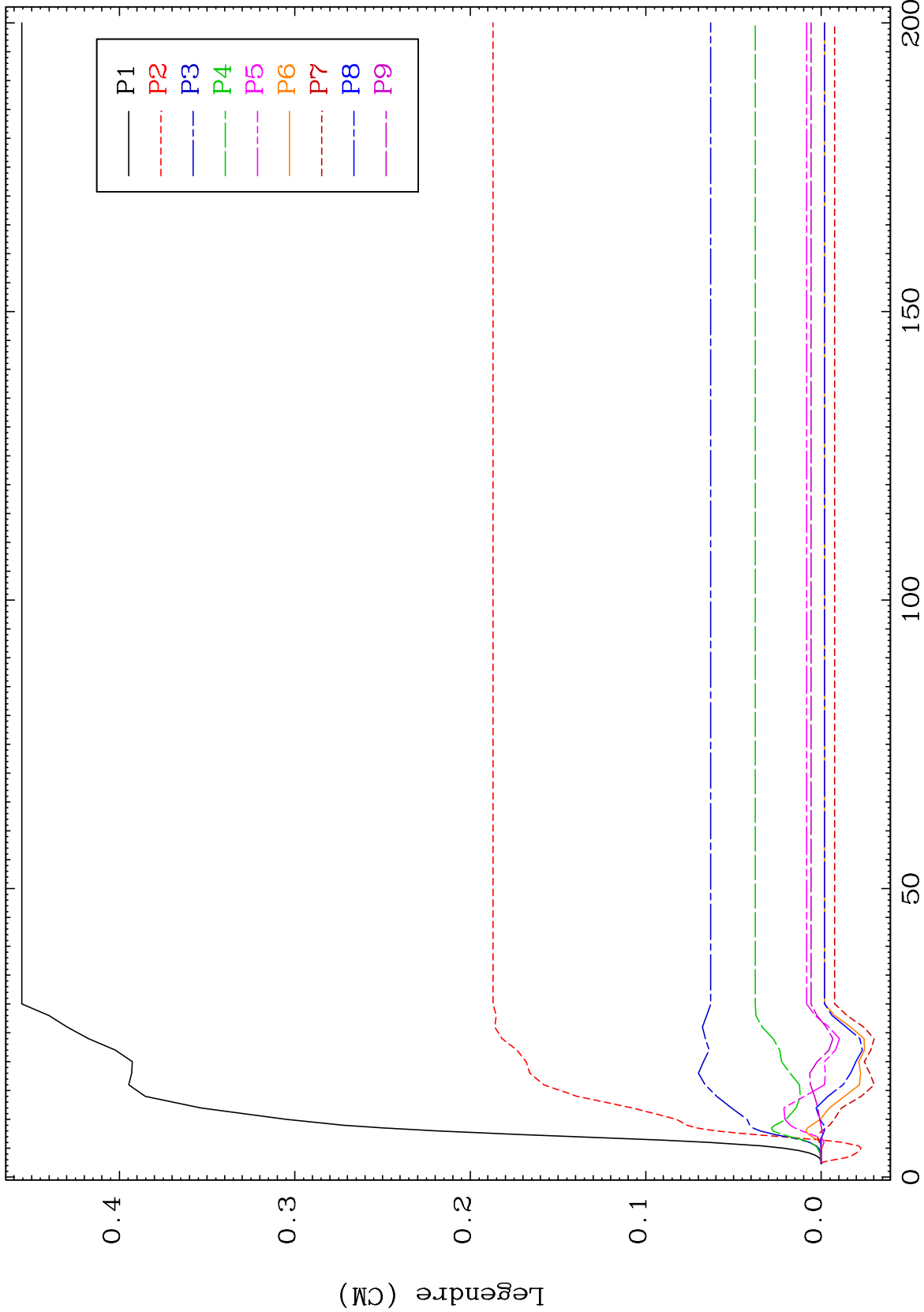
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



96

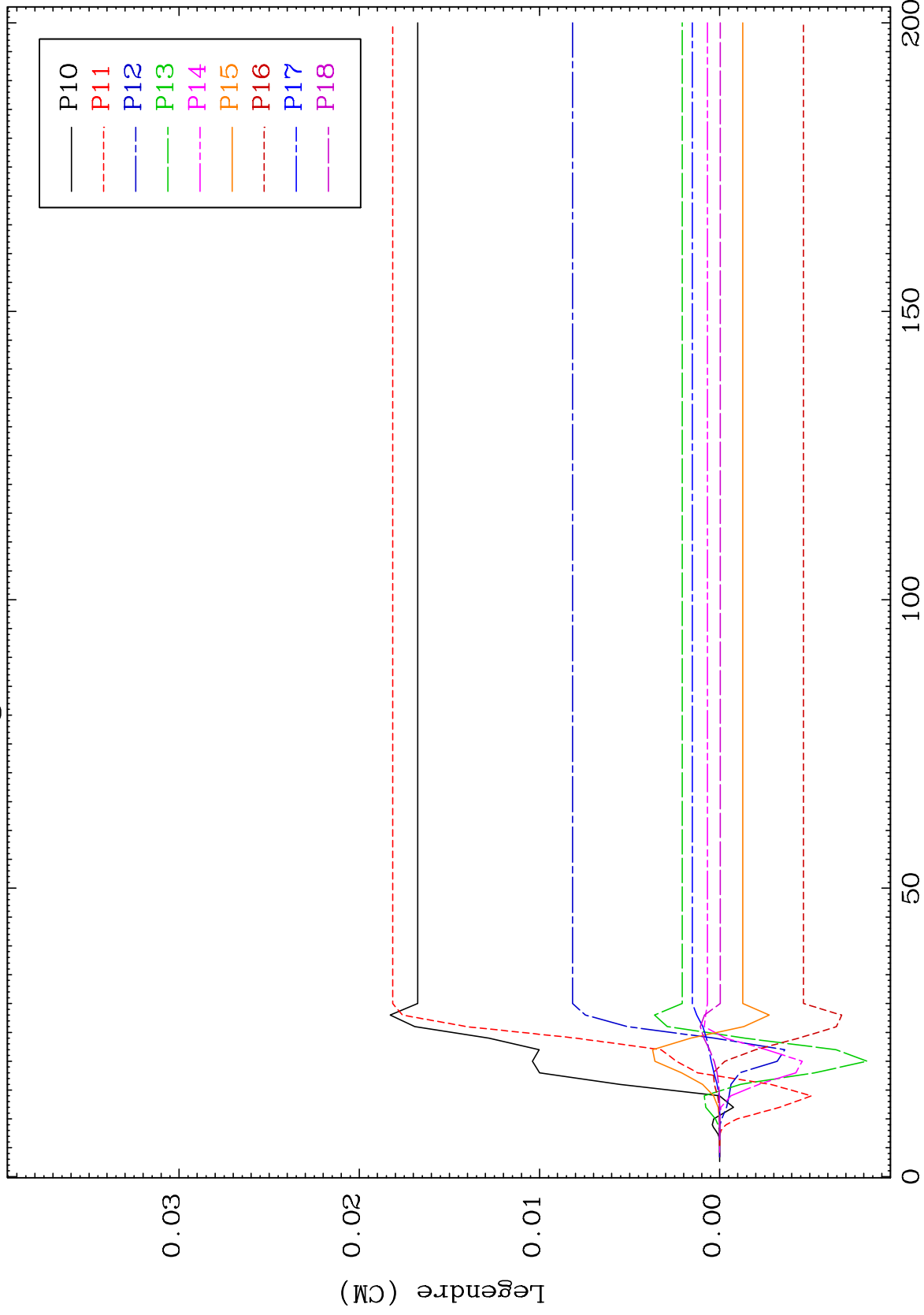
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



97

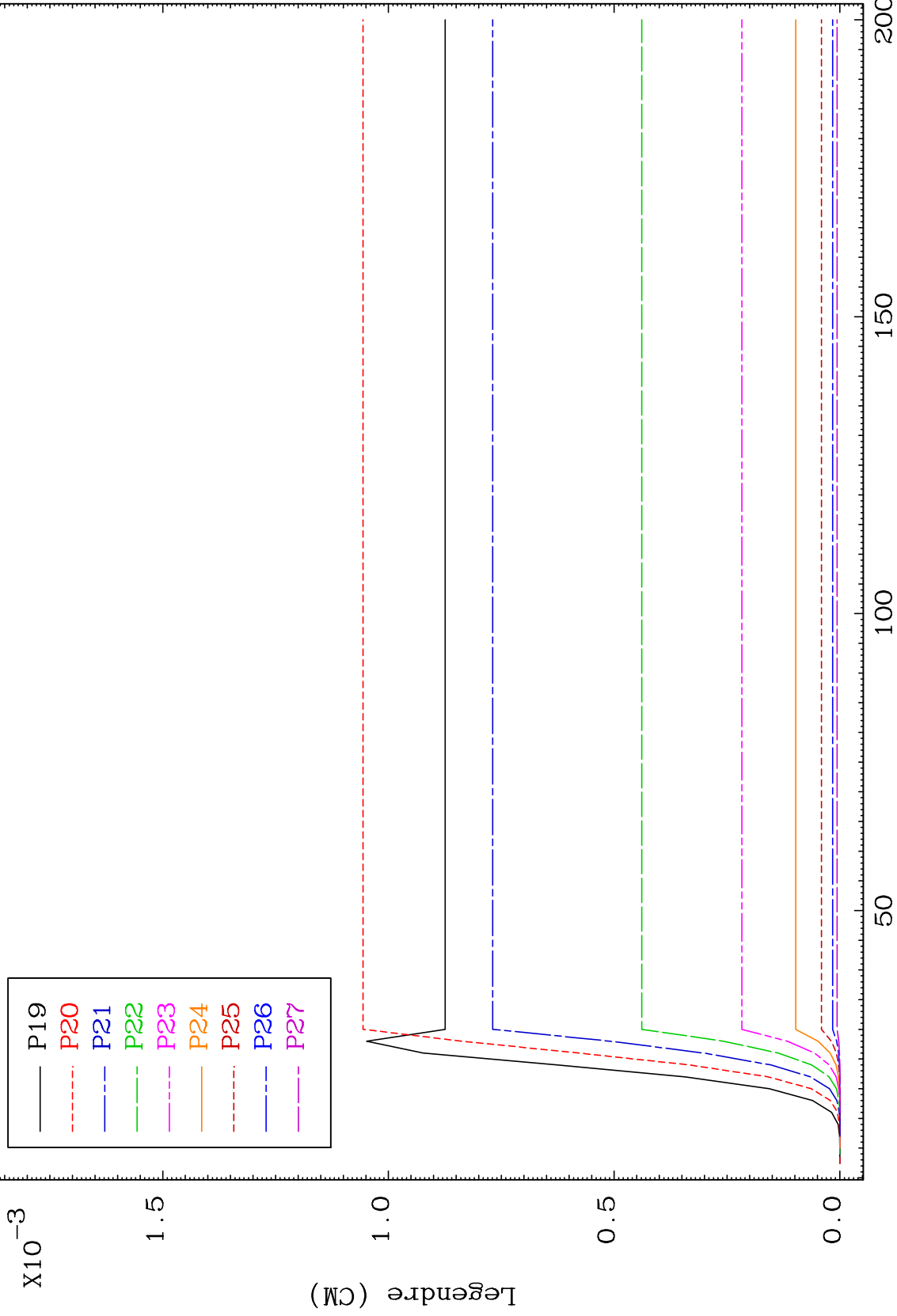
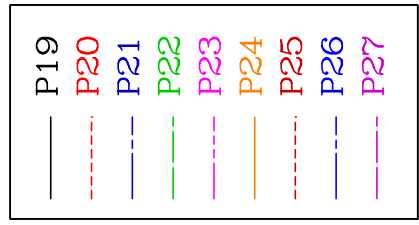
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



98

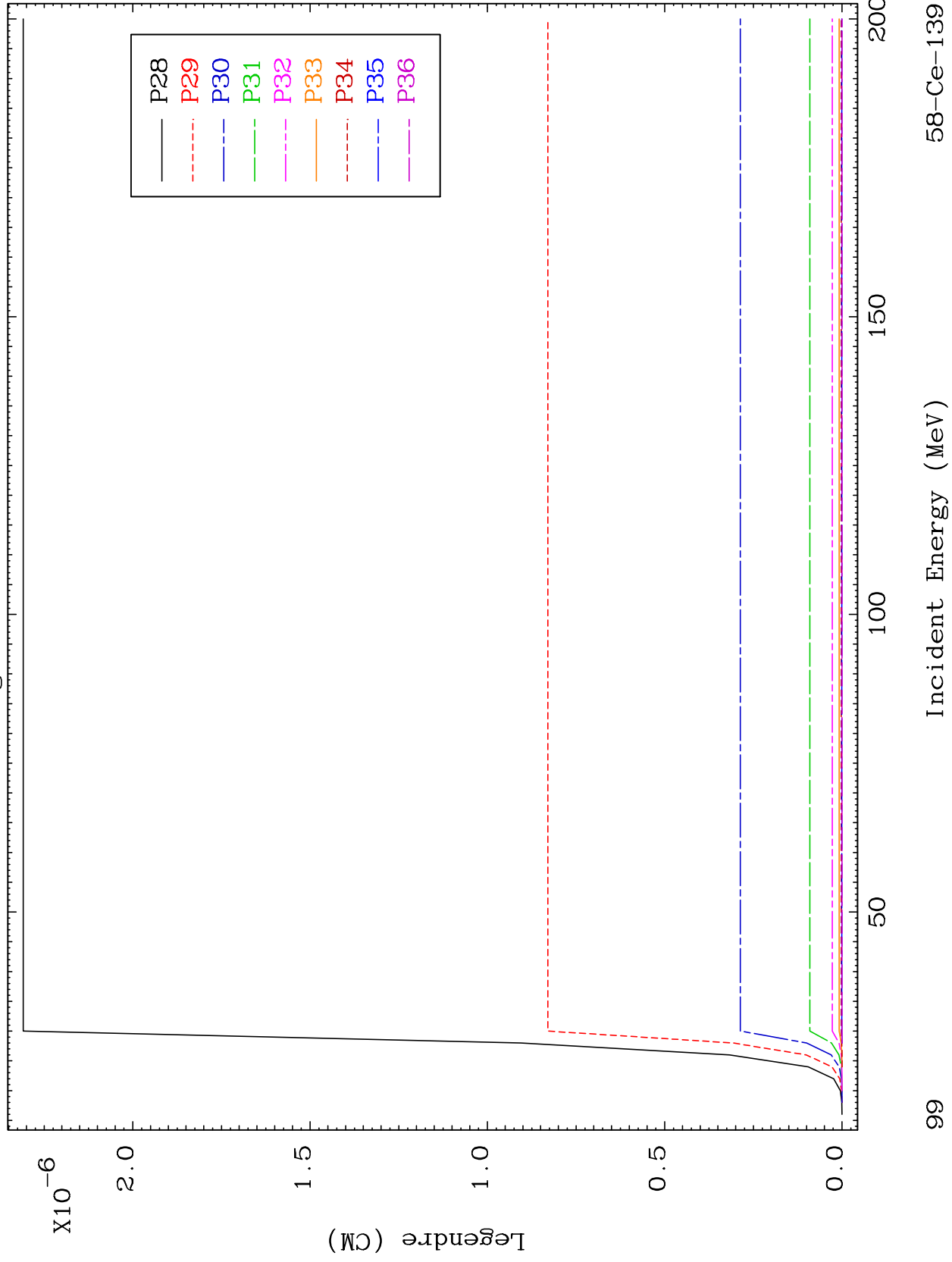
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



99

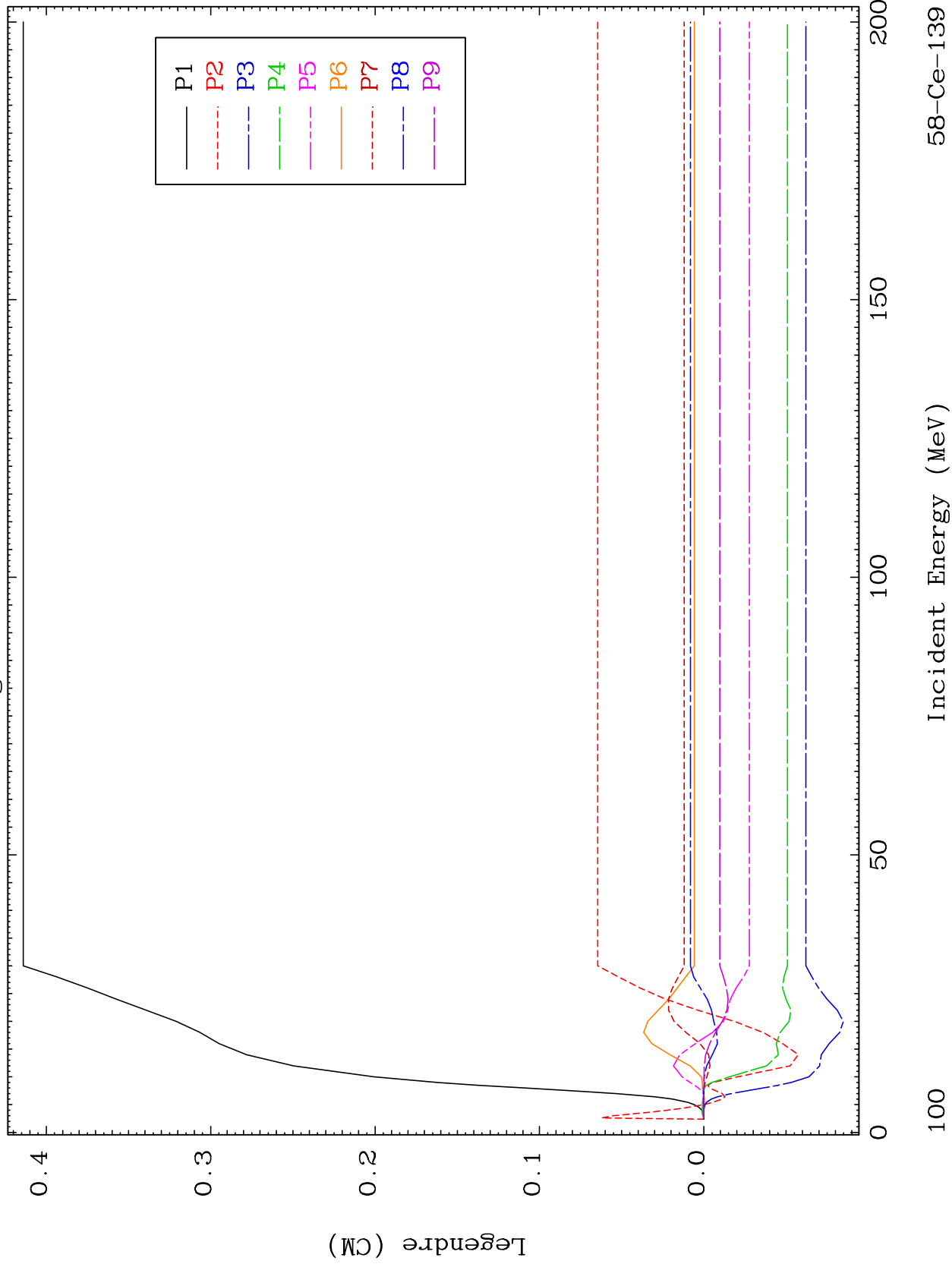
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

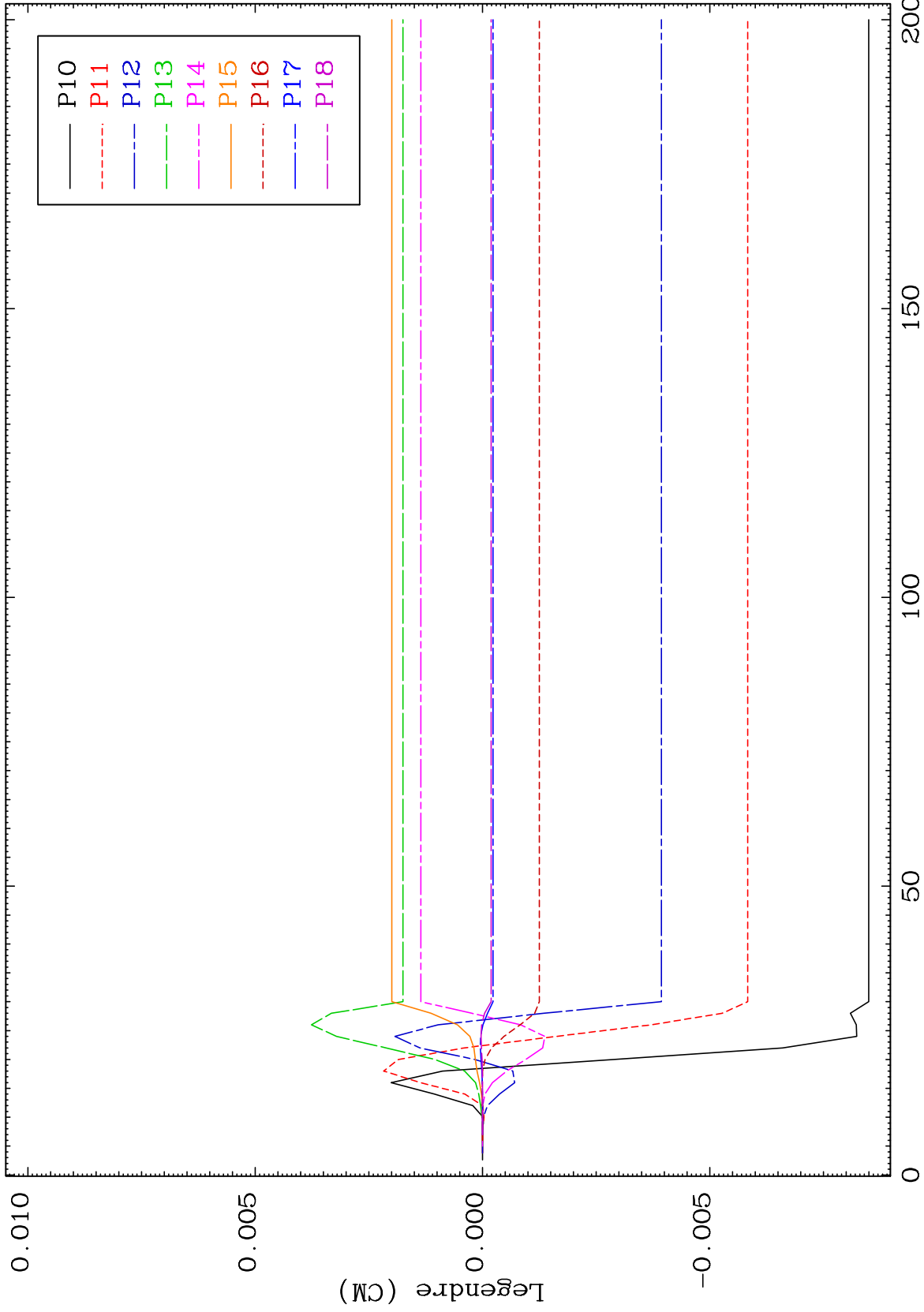
58-Ce-139



MAT 5834

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

58-Ce-139



101

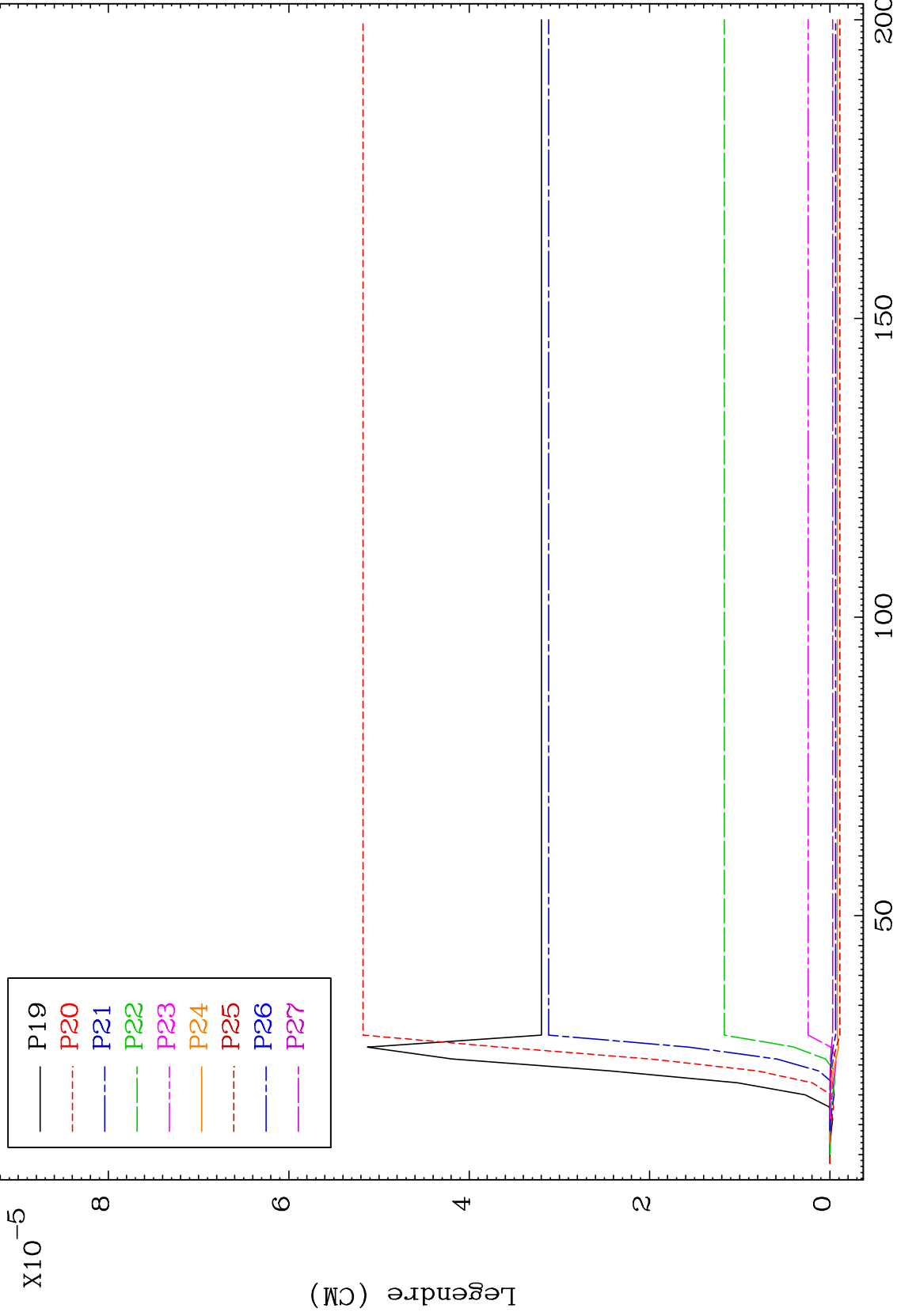
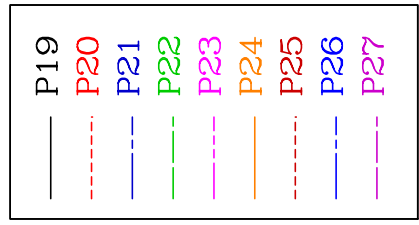
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

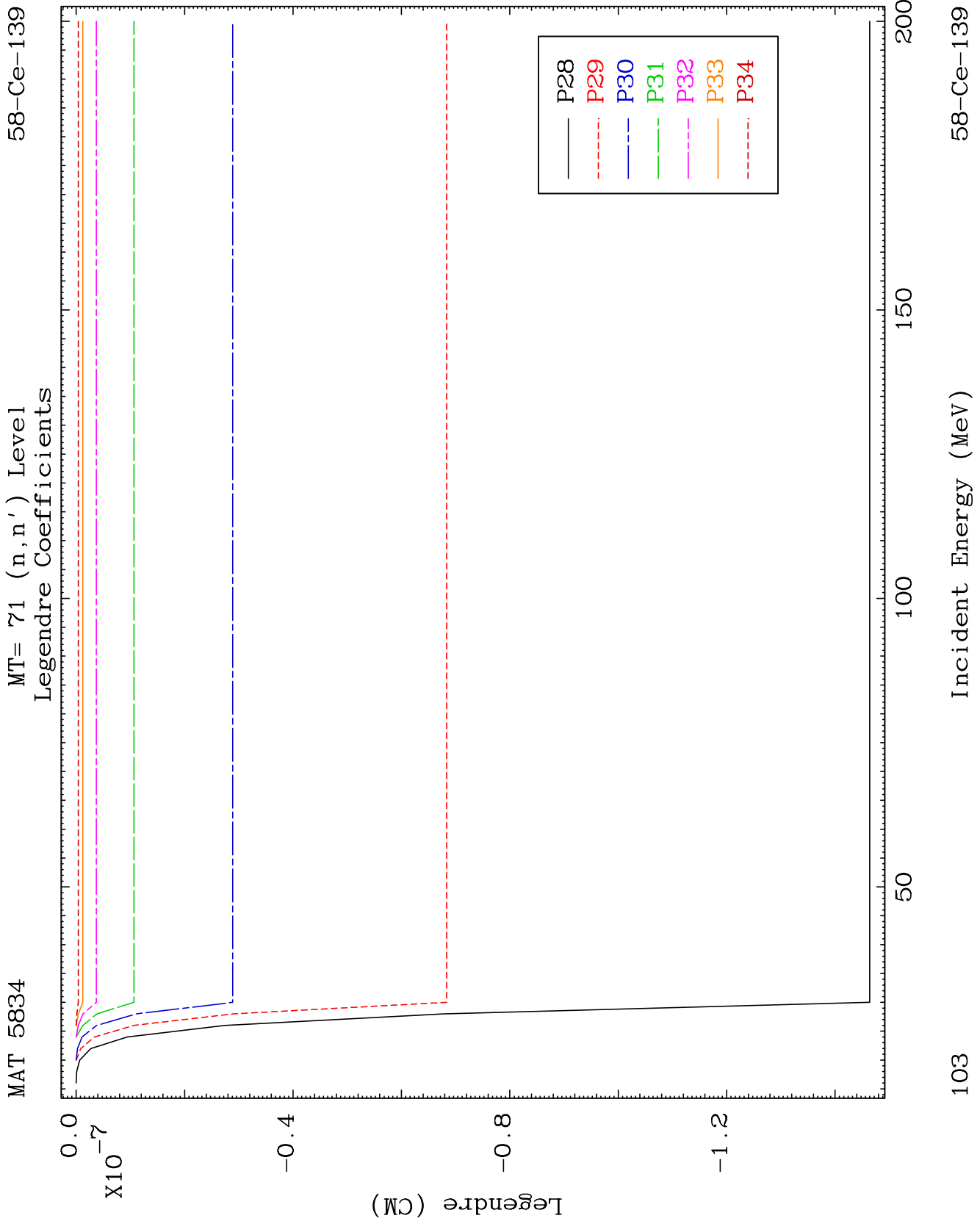
58-Ce-139



102

Incident Energy (MeV)

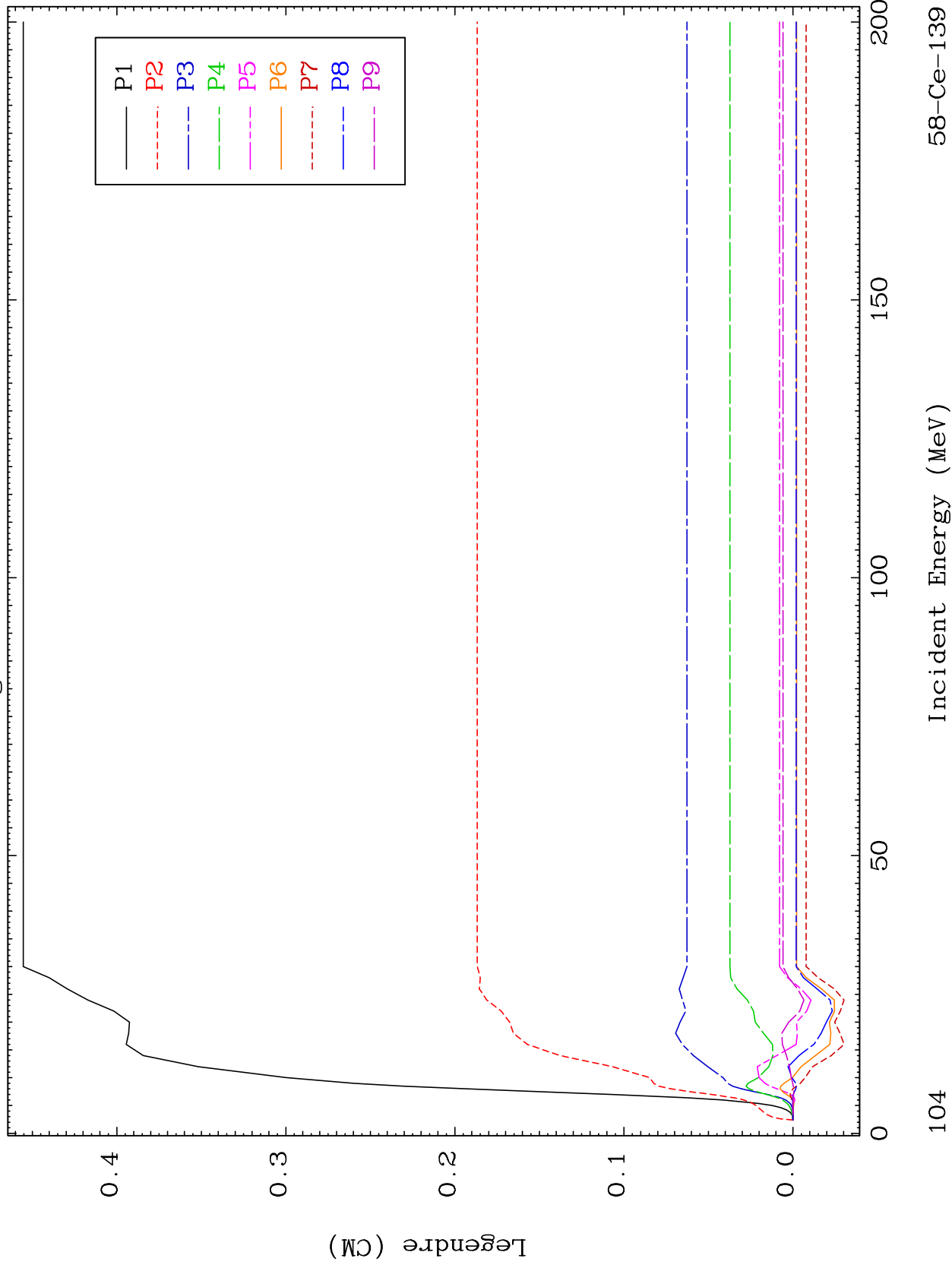
58-Ce-139



MAT 5834

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

58-Ce-139



58-Ce-139

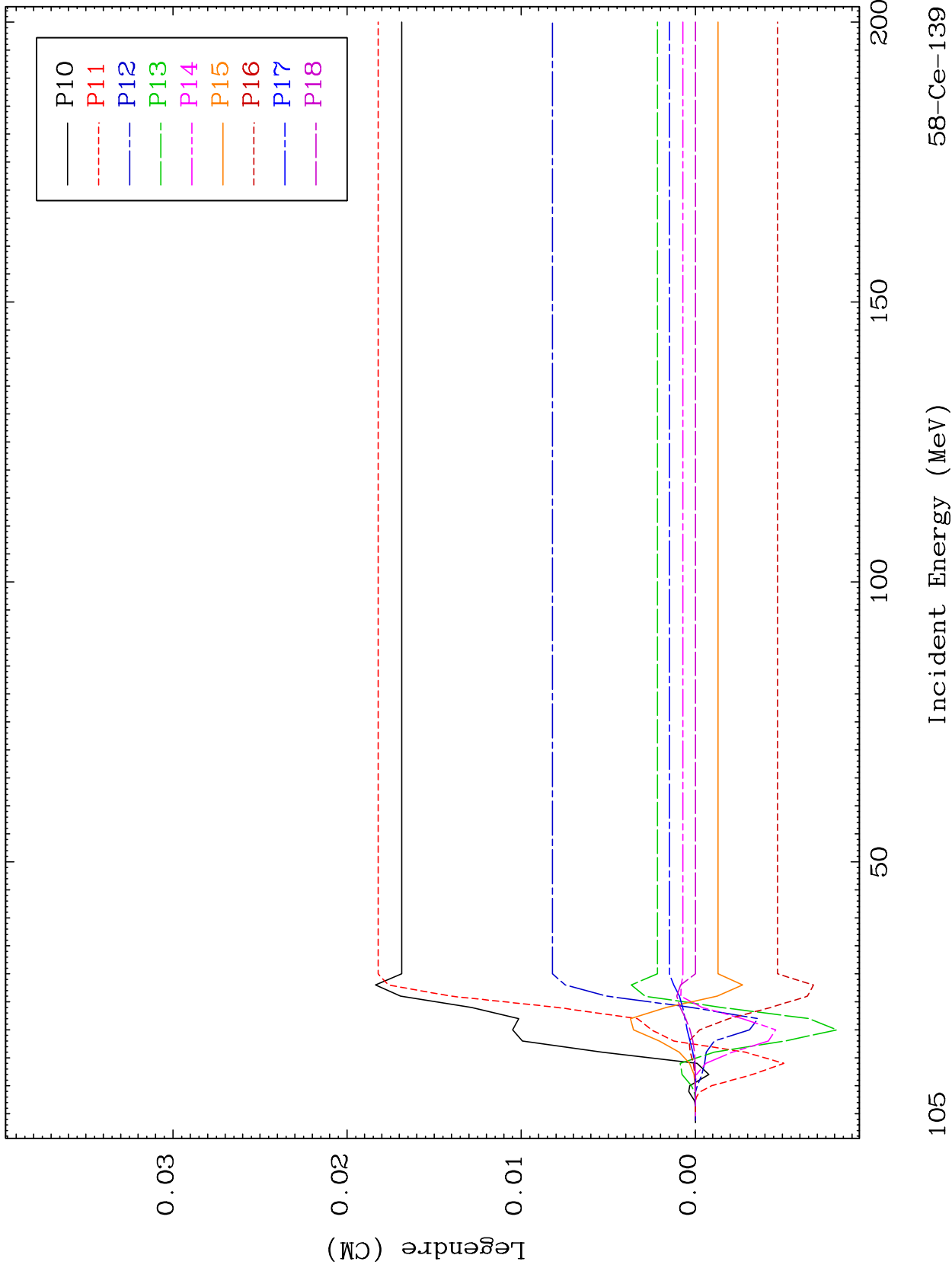
Incident Energy (MeV)

104

MAT 5834

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

58-Ce-139



105

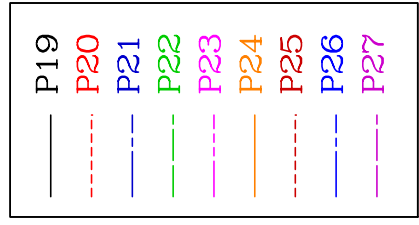
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



$\times 10^{-3}$

1.5

Legendre (CM)

1.0

0.5

0.0

50

100

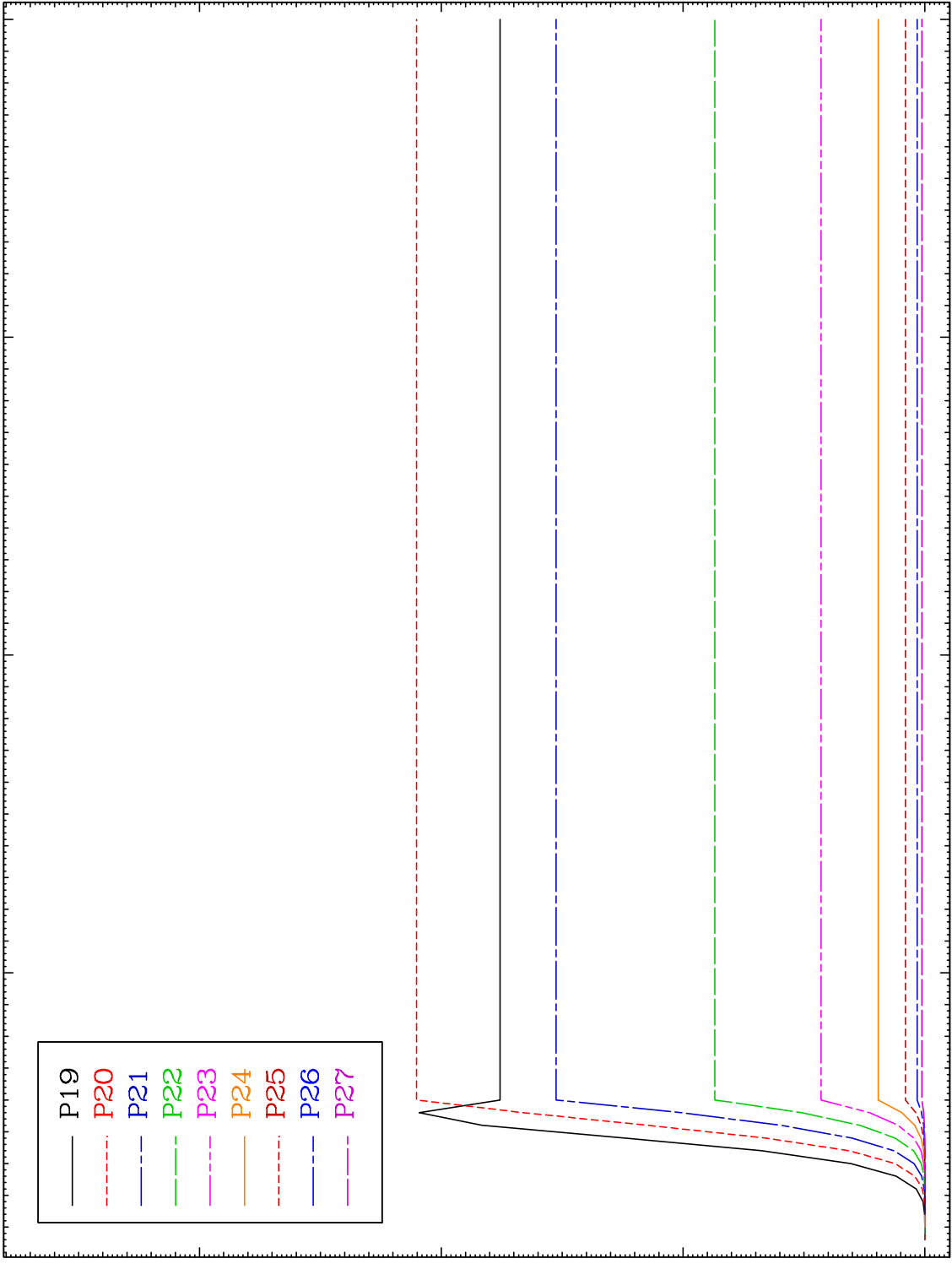
150

200

106

Incident Energy (MeV)

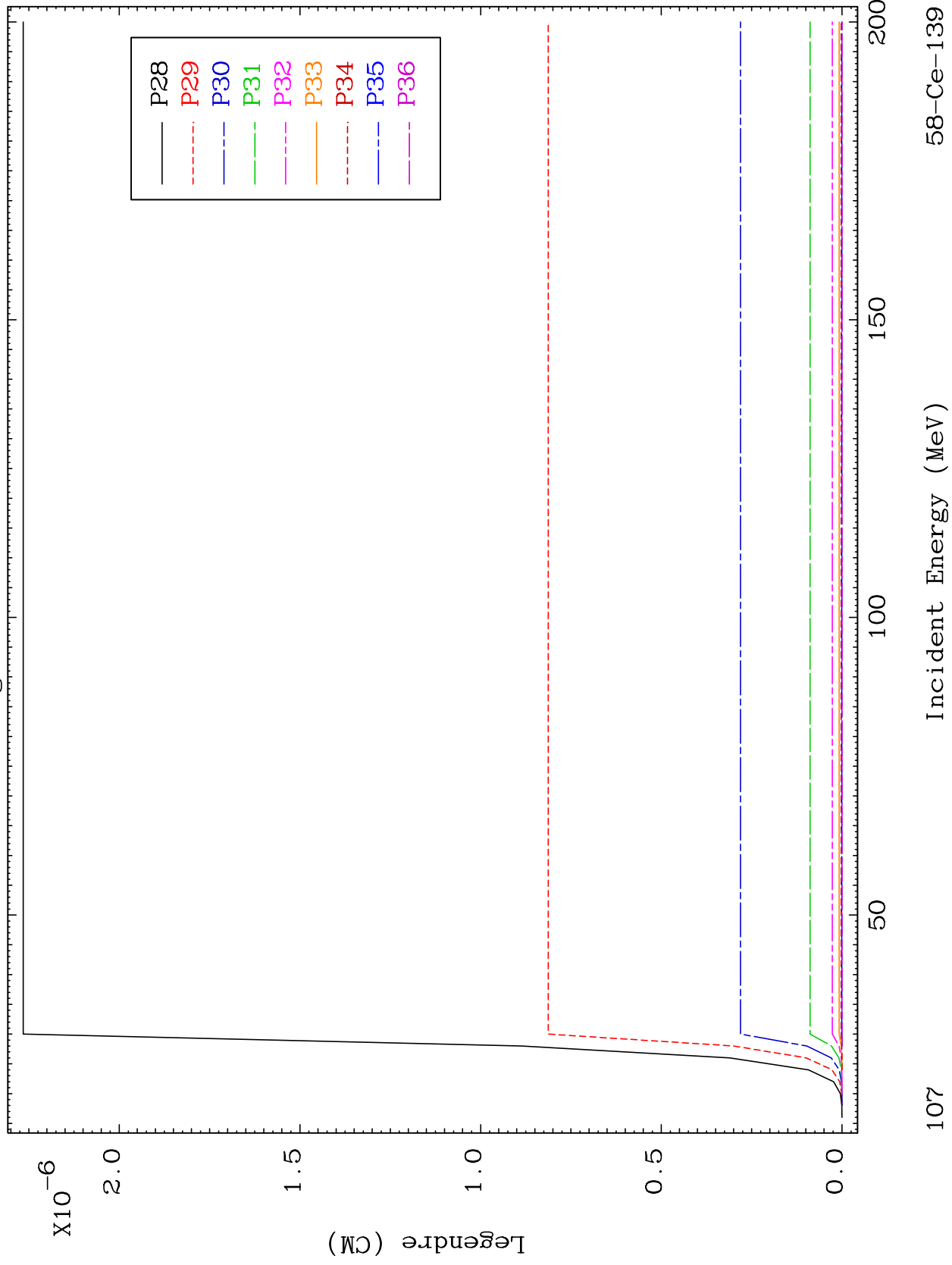
58-Ce-139



MAT 5834

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

58-Ce-139

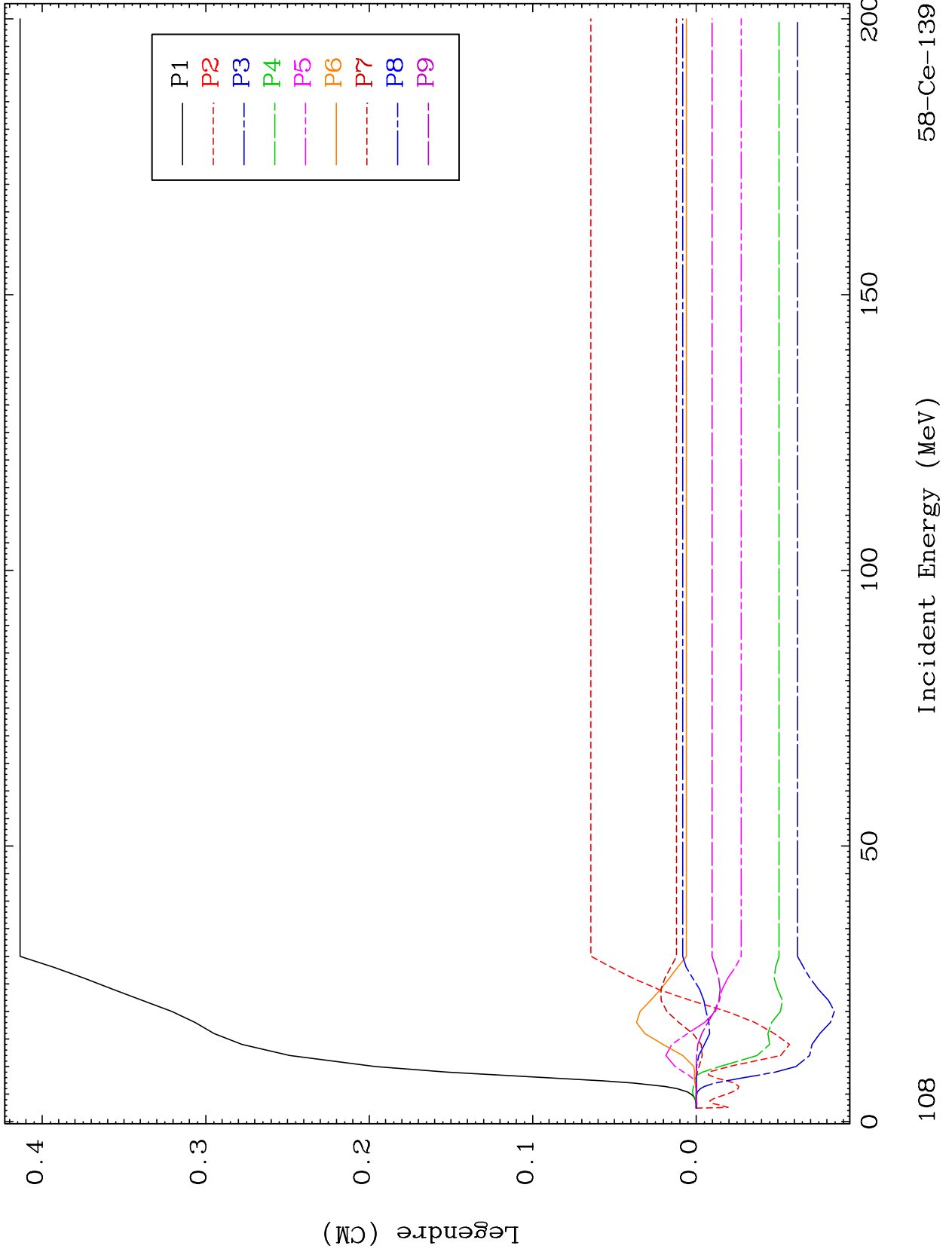


107

MAT 5834

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

58-Ce-139



58-Ce-139

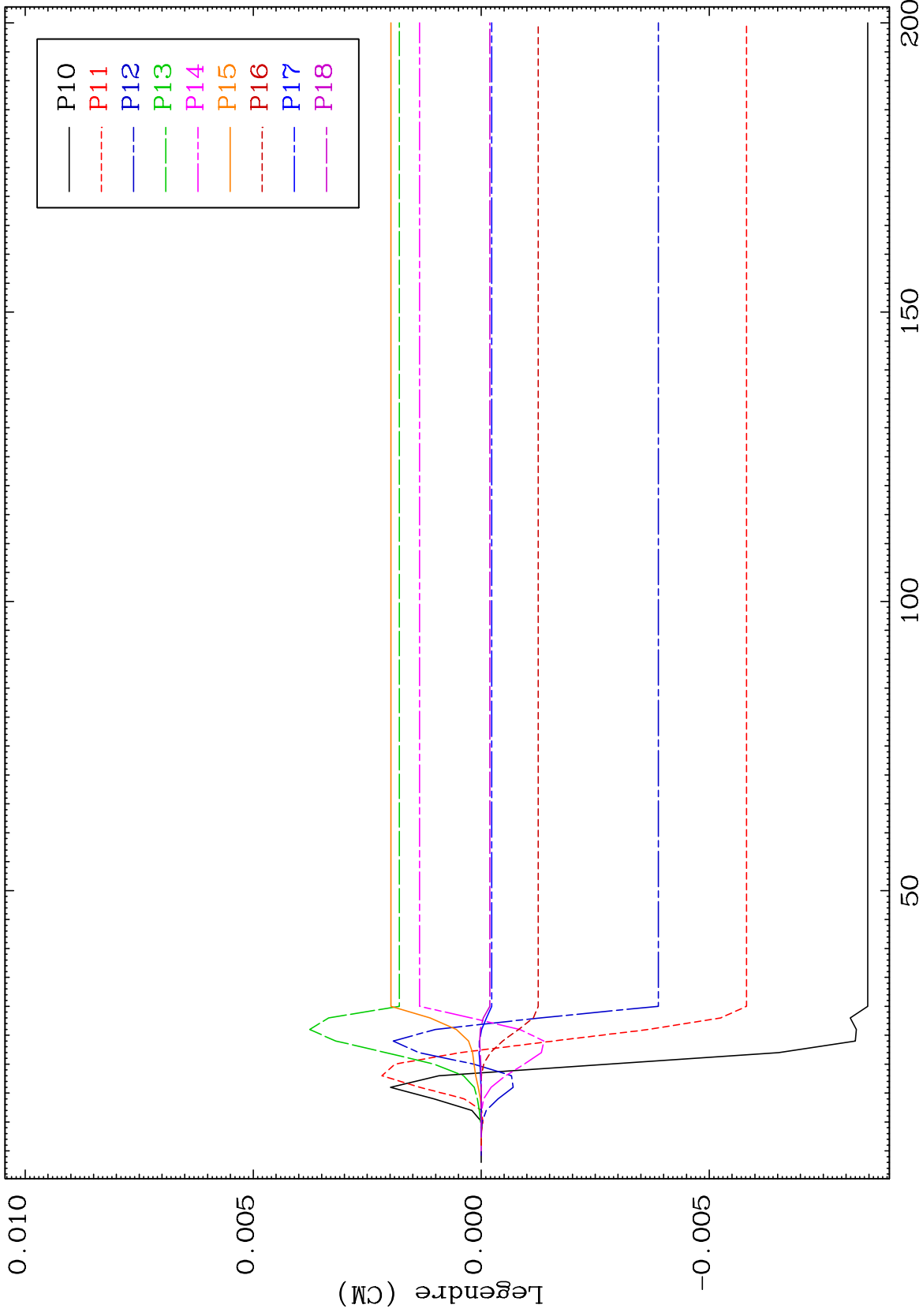
Incident Energy (MeV)

108

MAT 5834

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

58-Ce-139



109

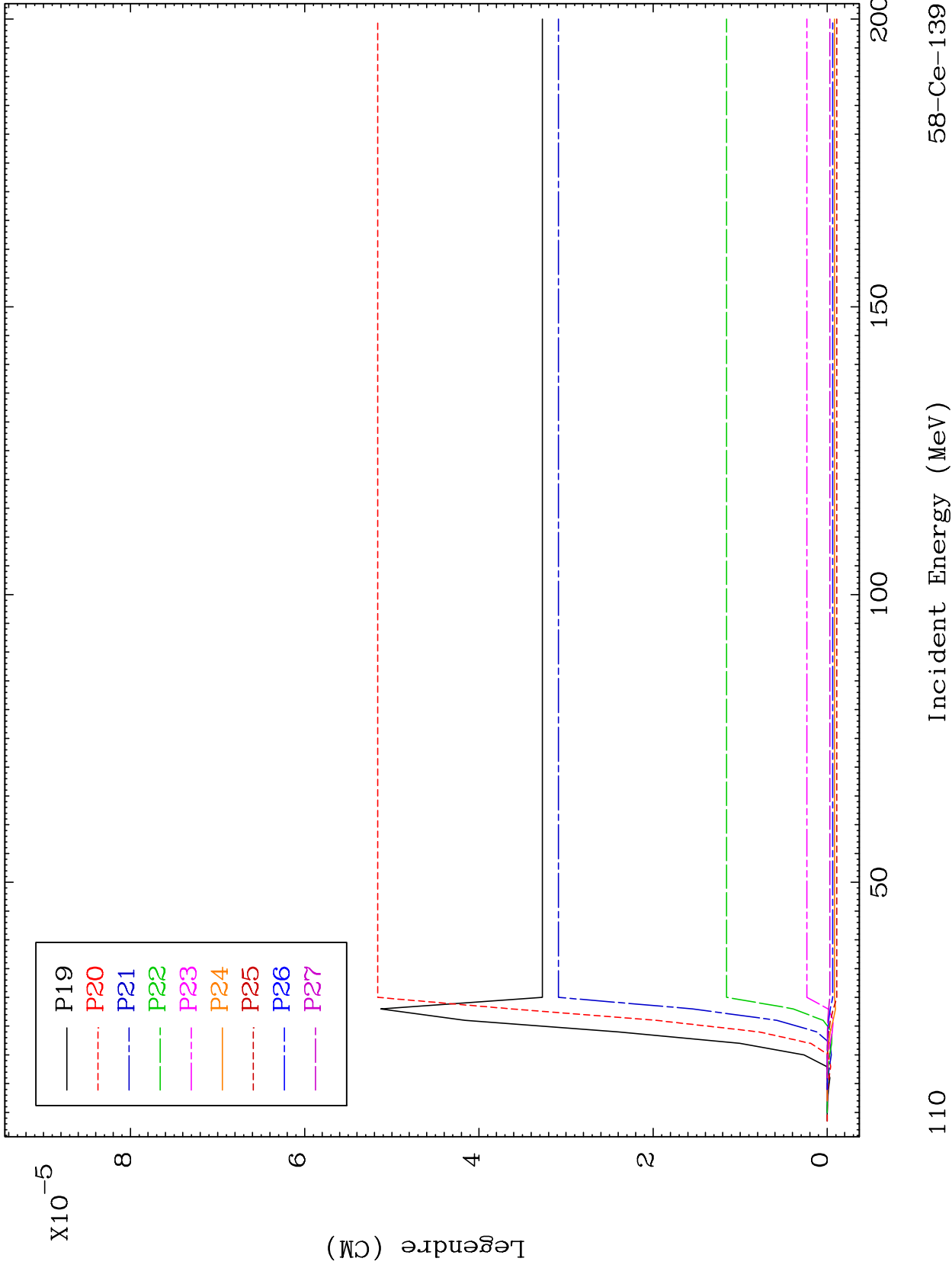
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

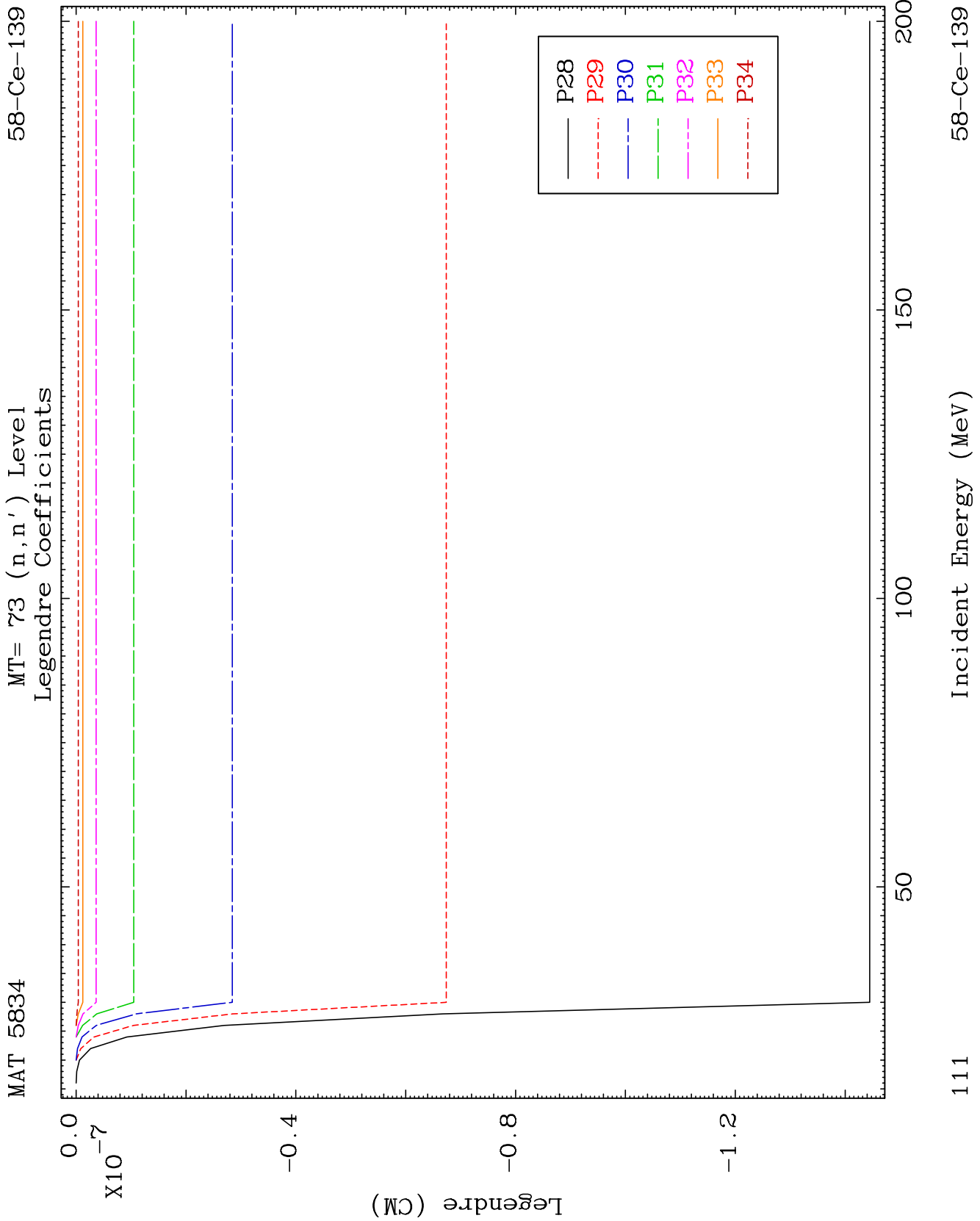
58-Ce-139



110

Incident Energy (MeV)

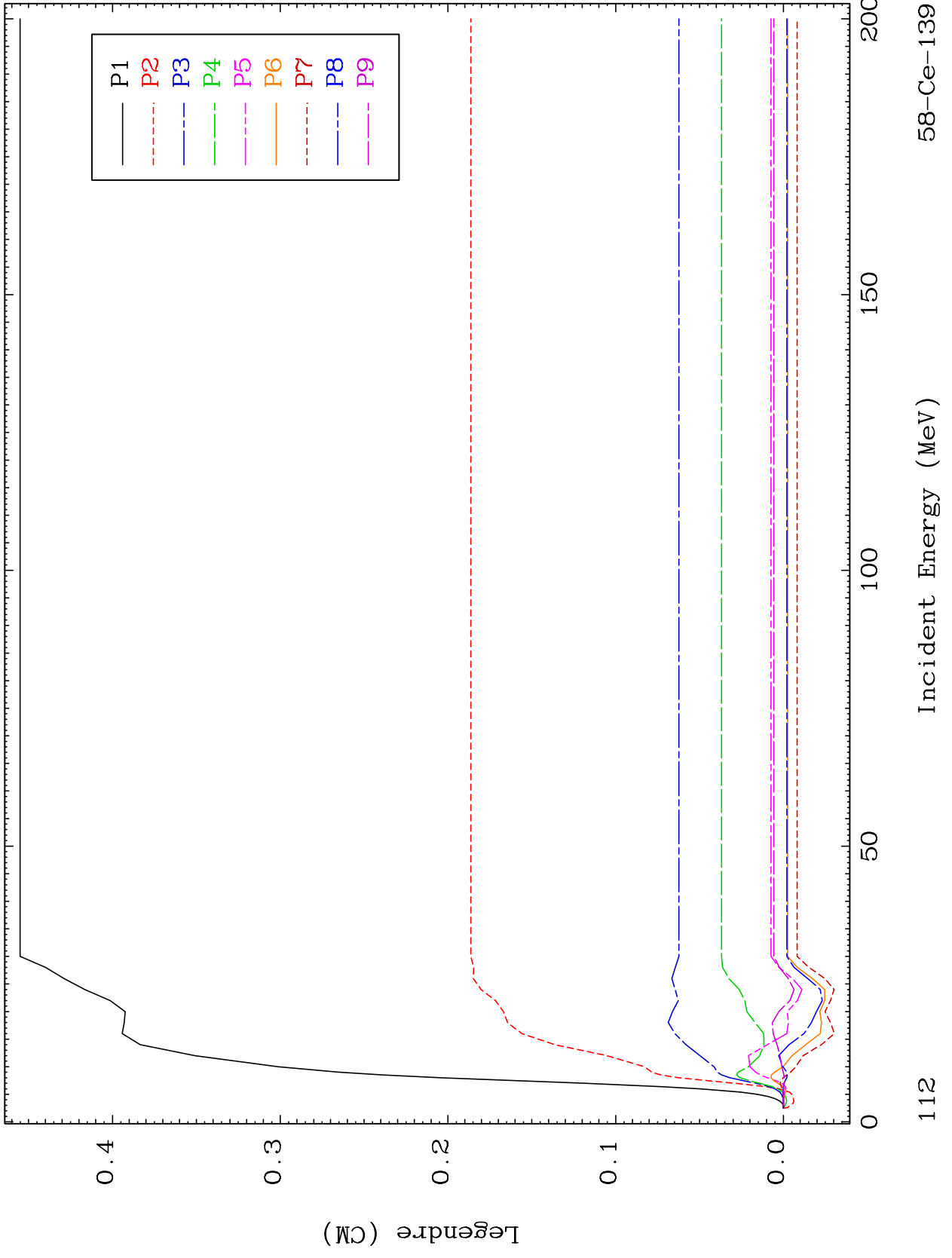
58-Ce-139



MAT 5834

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

58-Ce-139



58-Ce-139

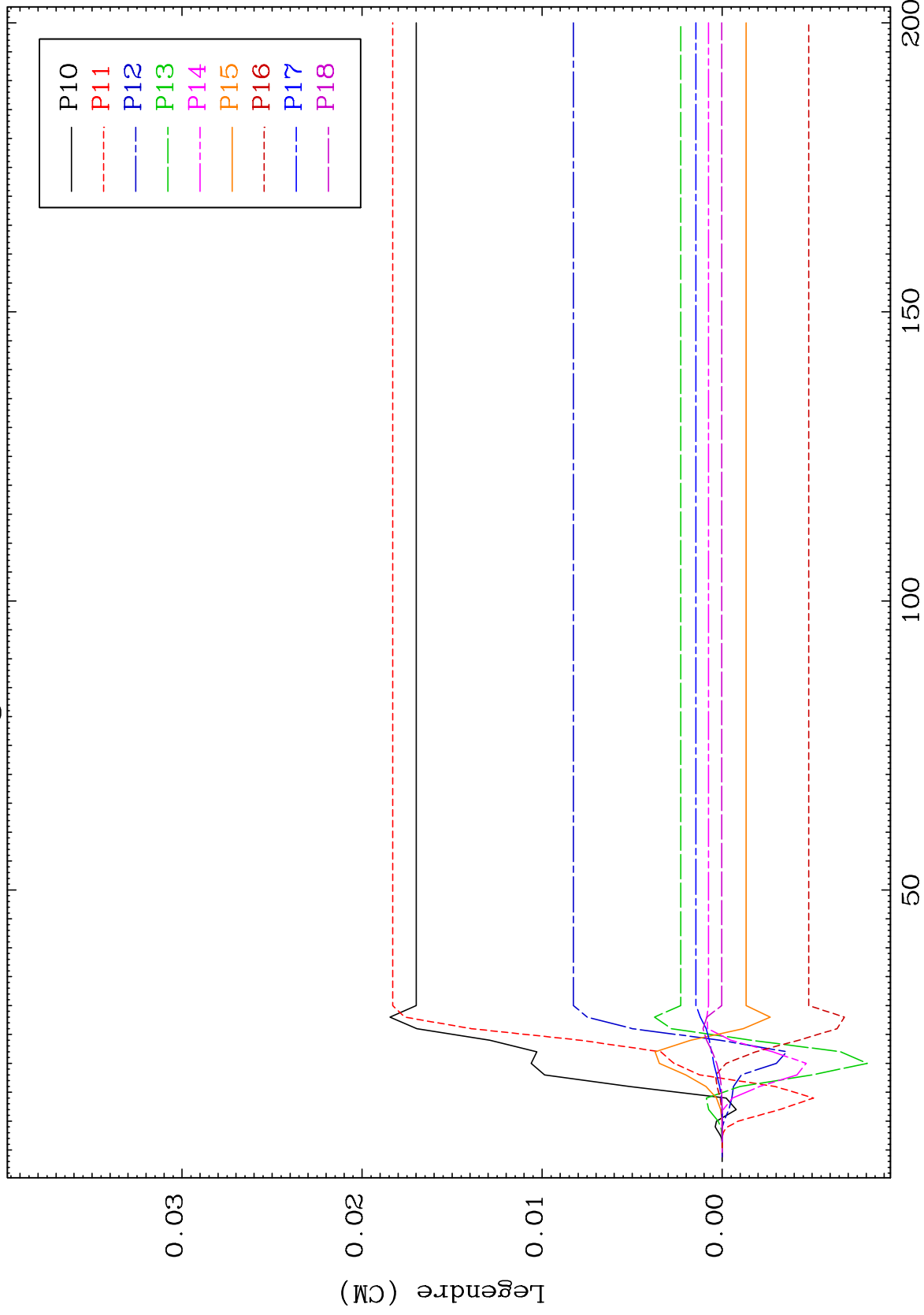
Incident Energy (MeV)

112

MAT 5834

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

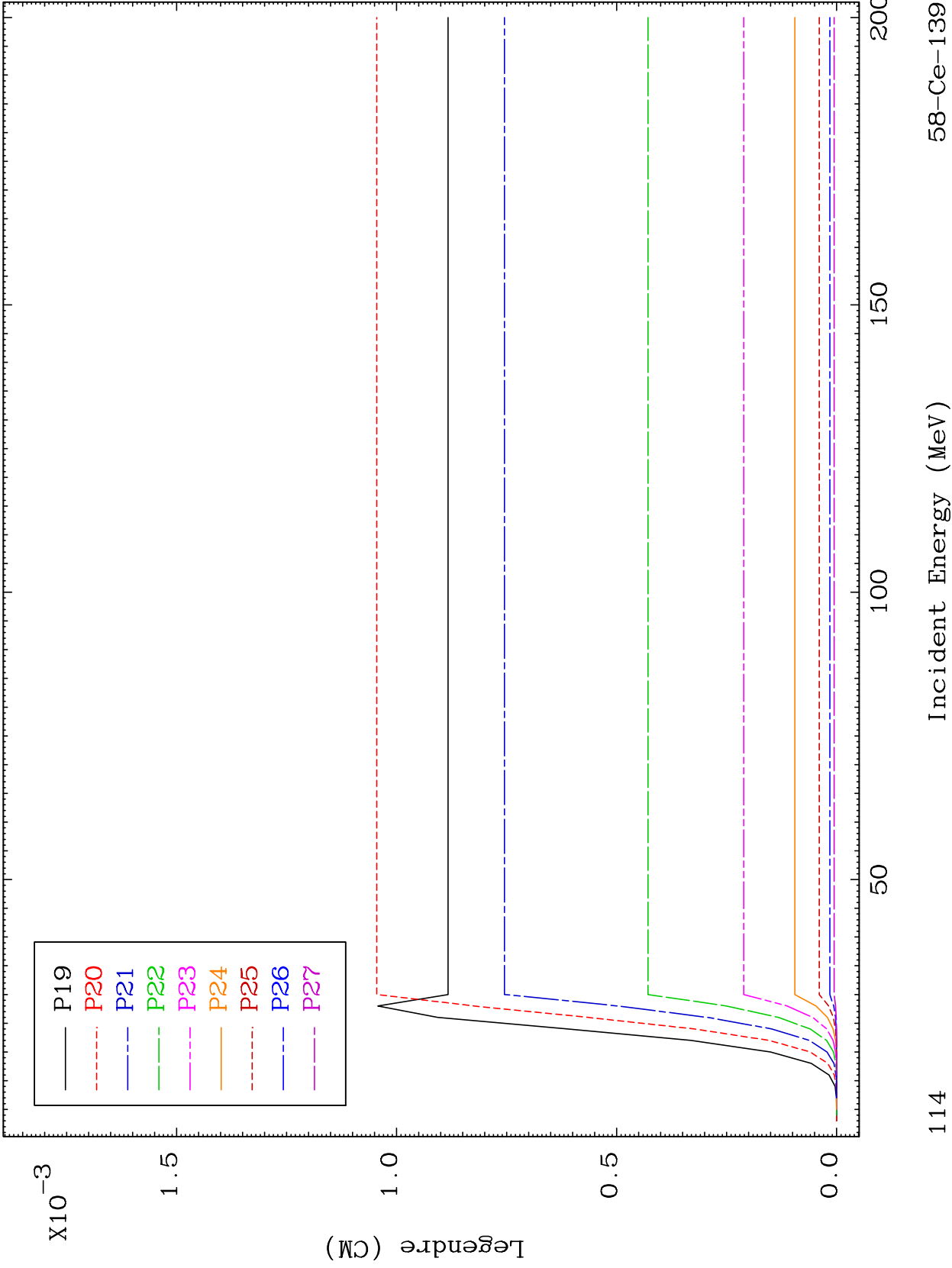
58-Ce-139



113

Incident Energy (MeV)

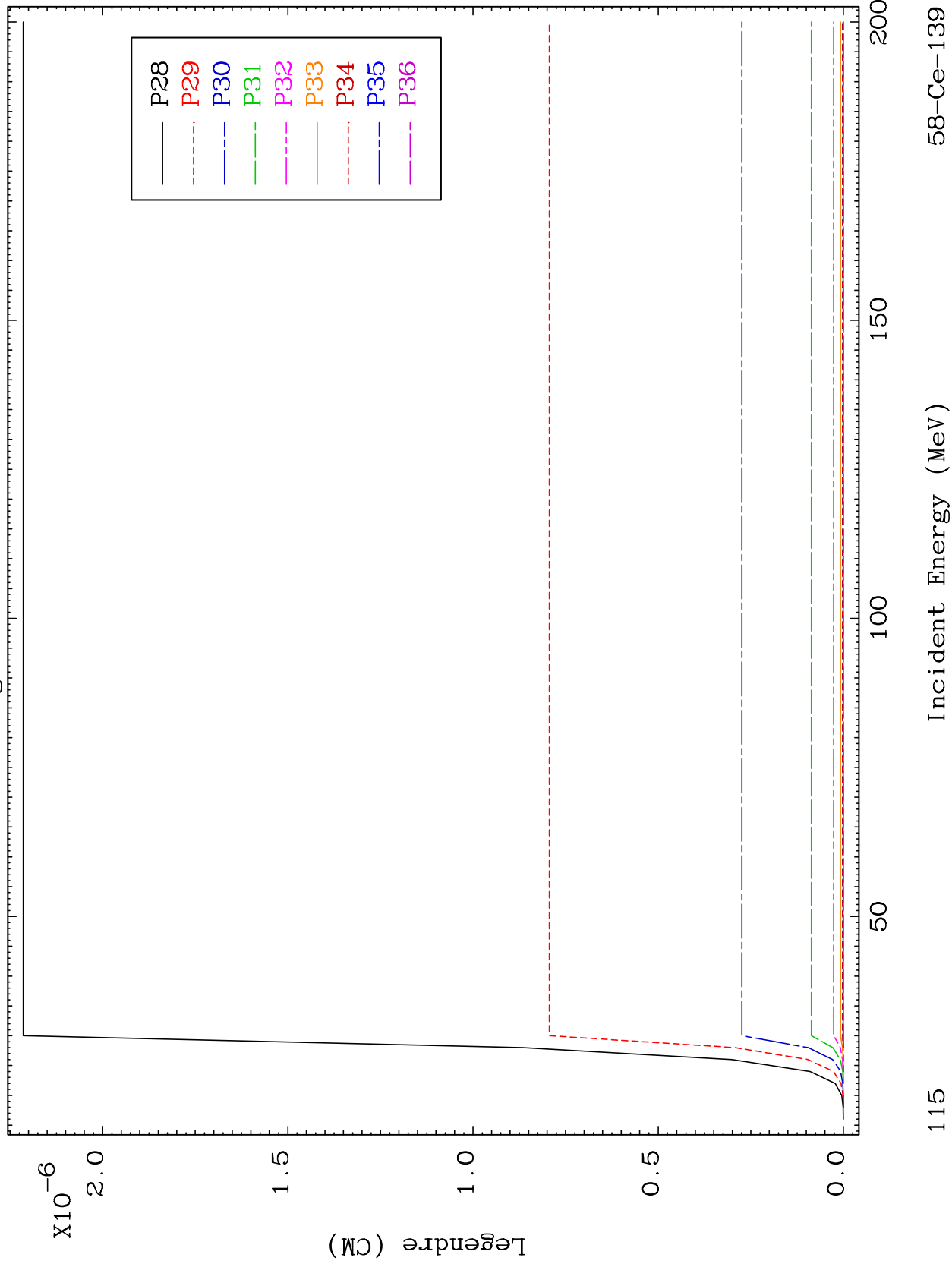
58-Ce-139



MAT 5834

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

58-Ce-139



58-Ce-139

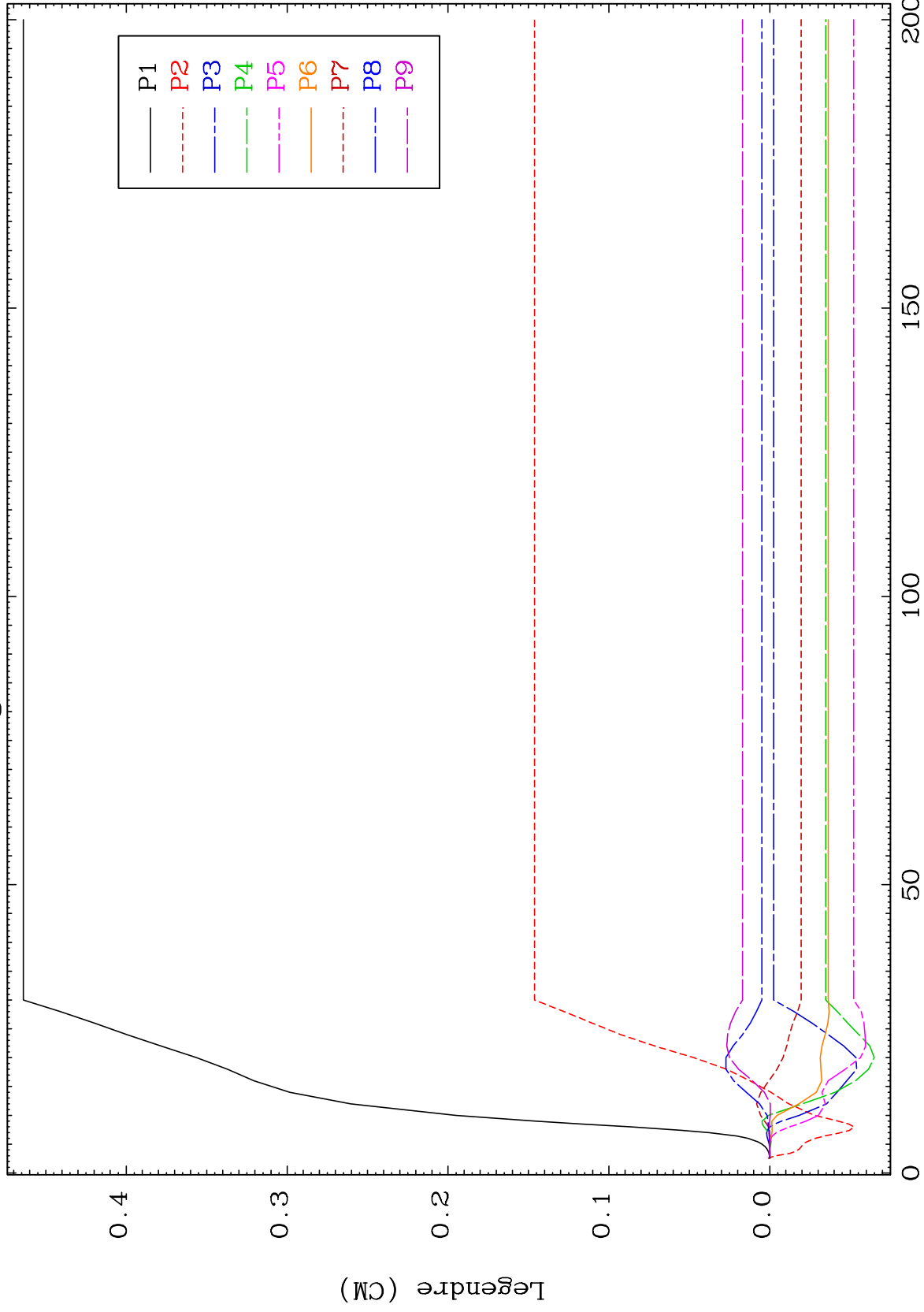
Incident Energy (MeV)

115

MAT 5834

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

58-Ce-139



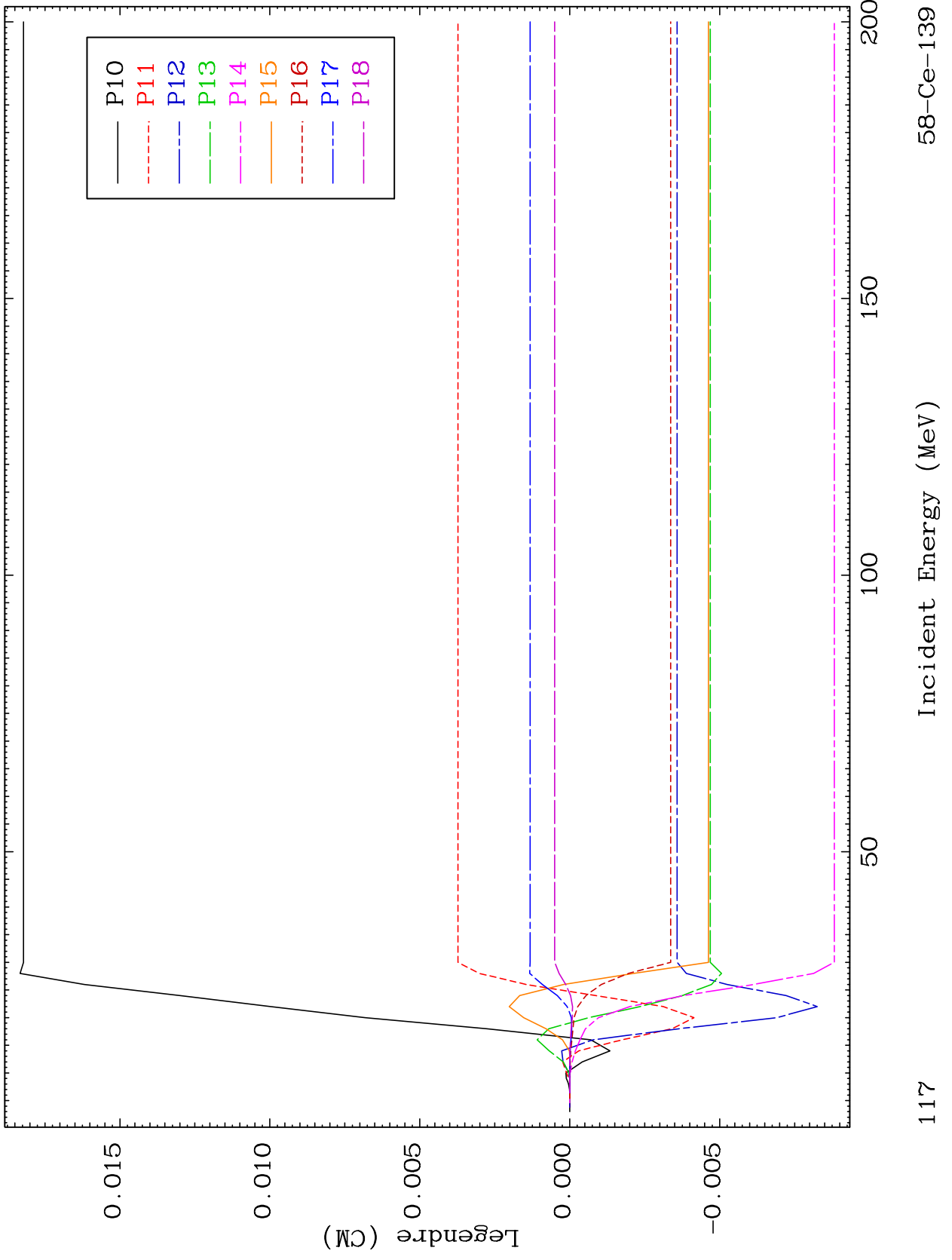
116

58-Ce-139

MAT 5834

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

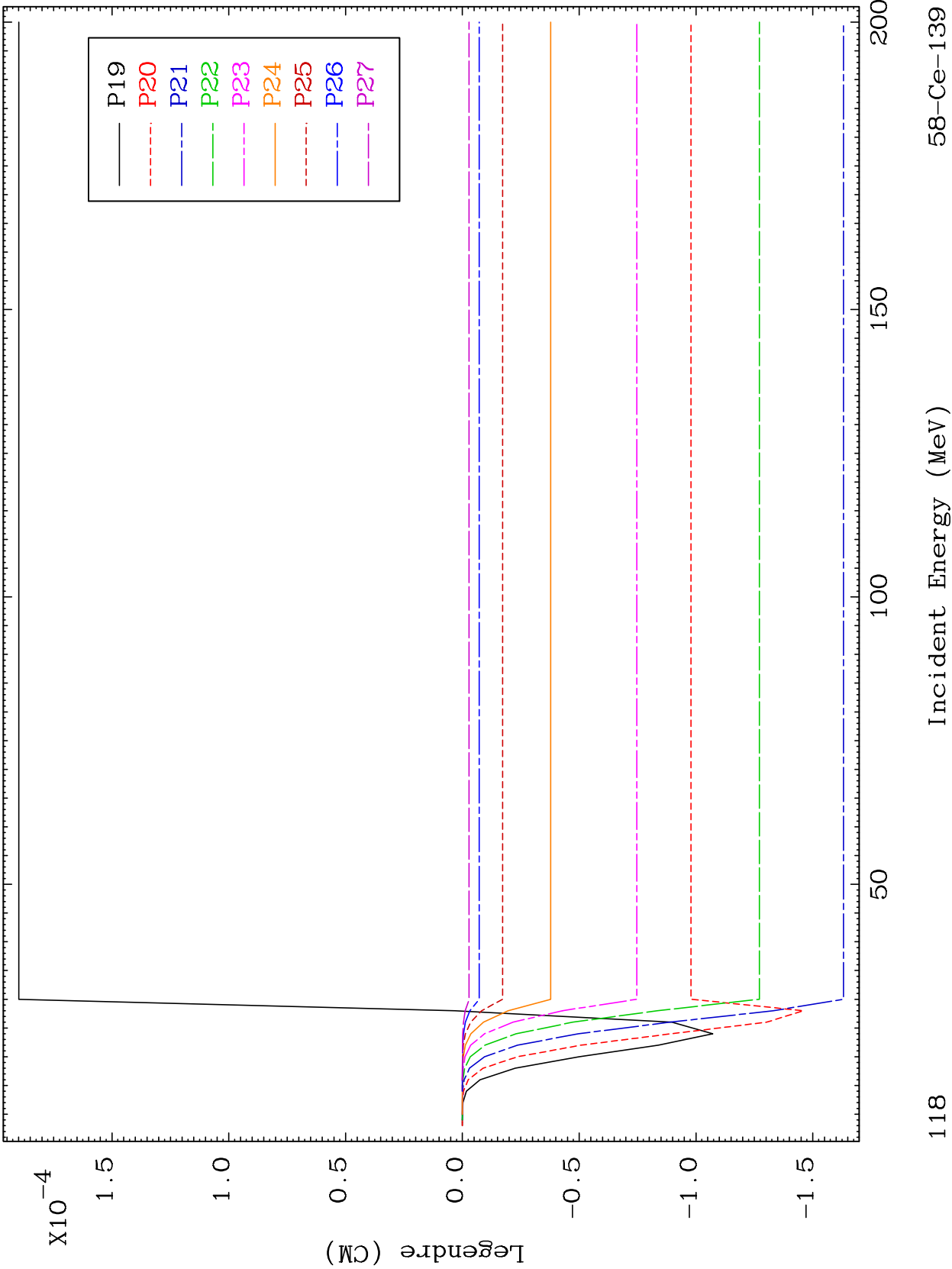
58-Ce-139



MAT 5834

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

58-Ce-139



118

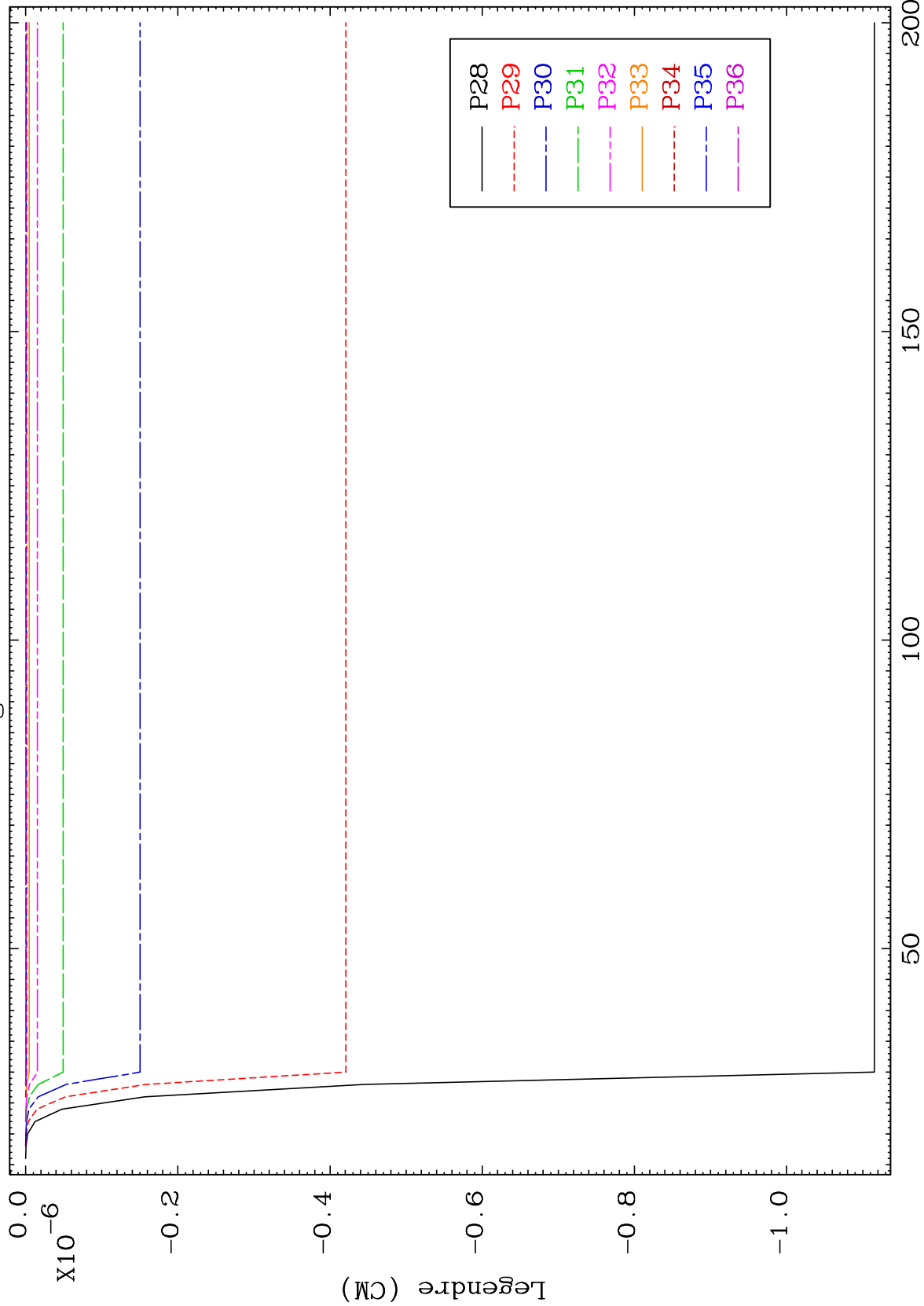
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



119

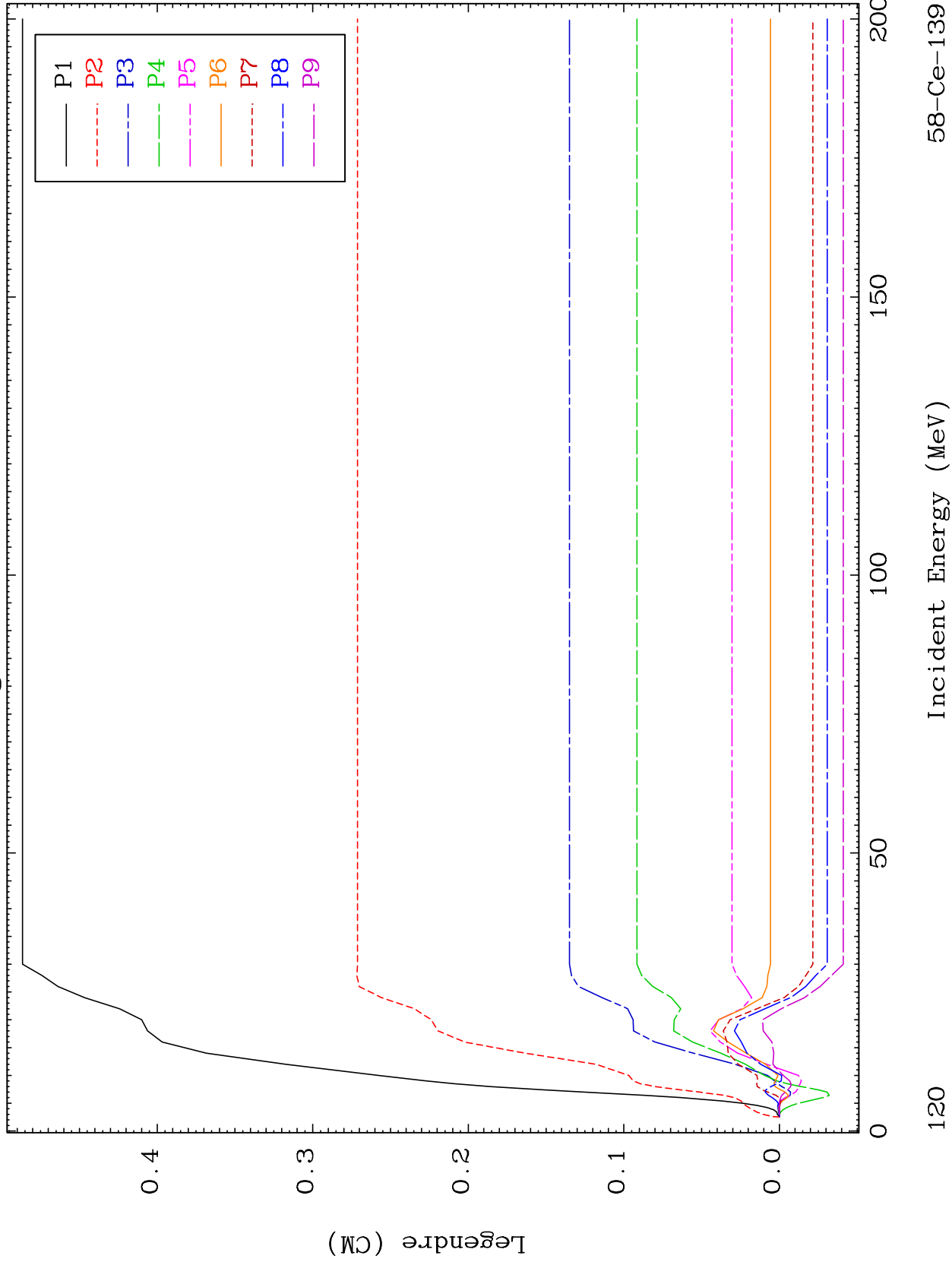
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139

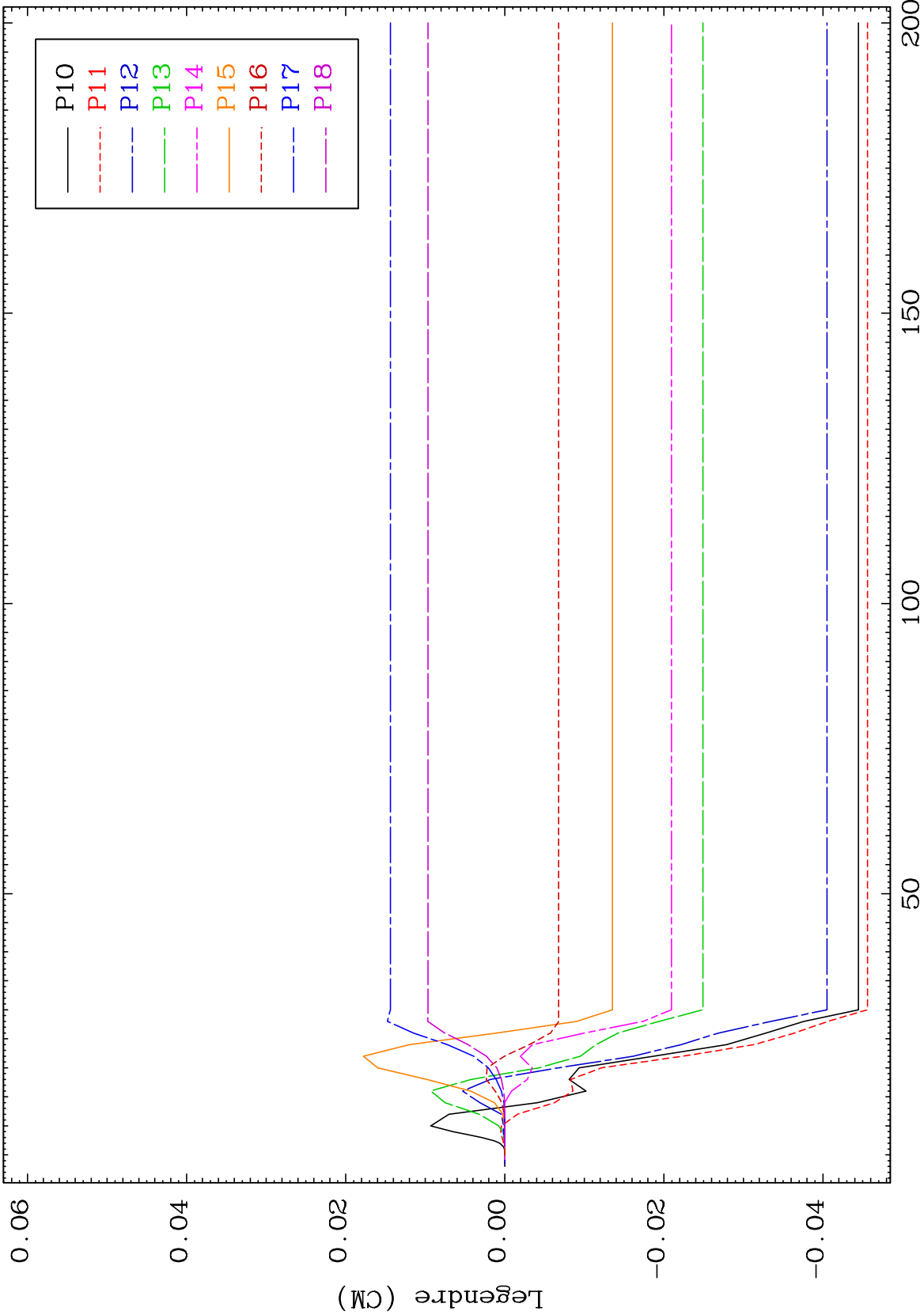


58-Ce-139

MAT 5834

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

58-Ce-139



121

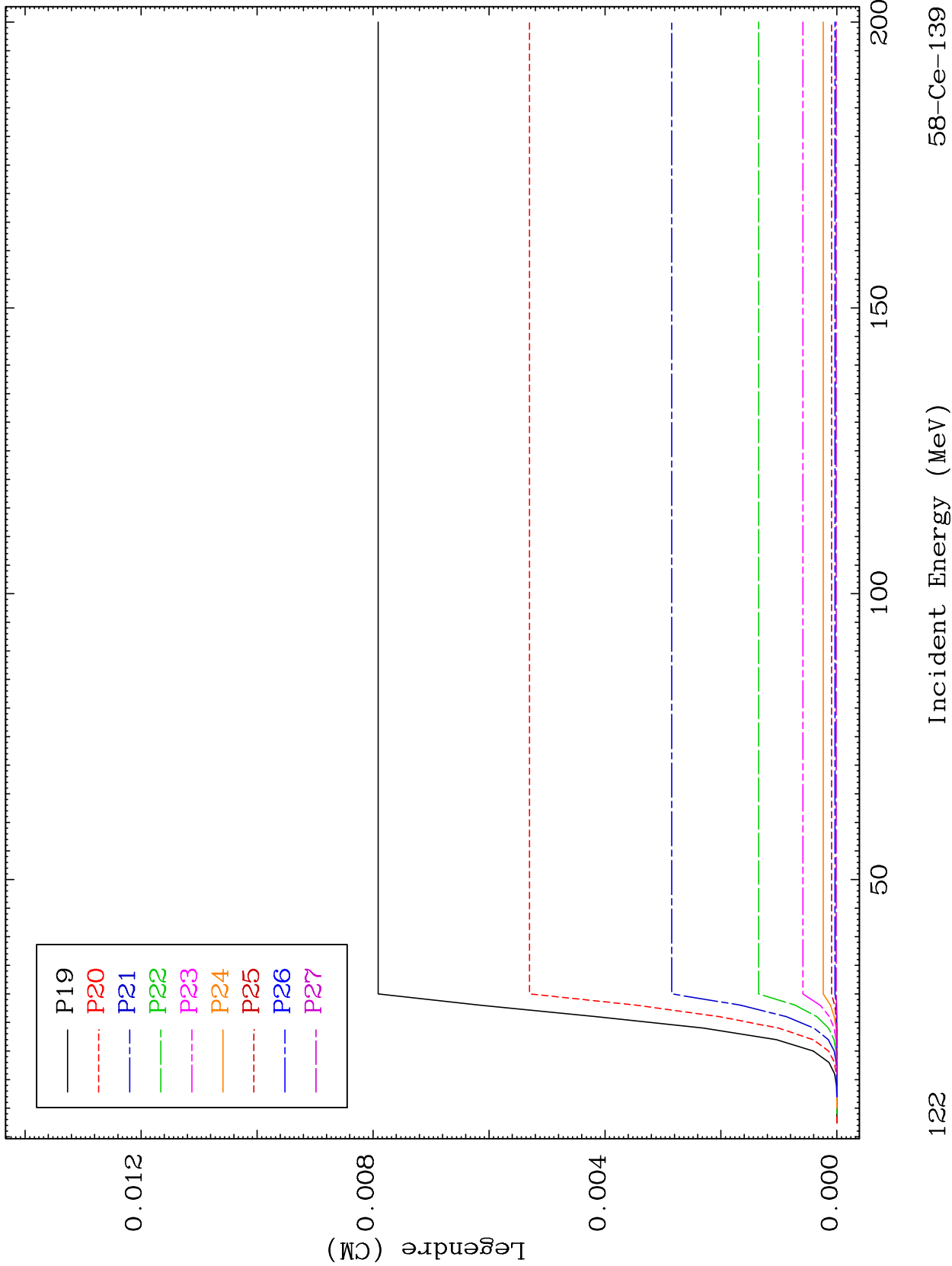
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



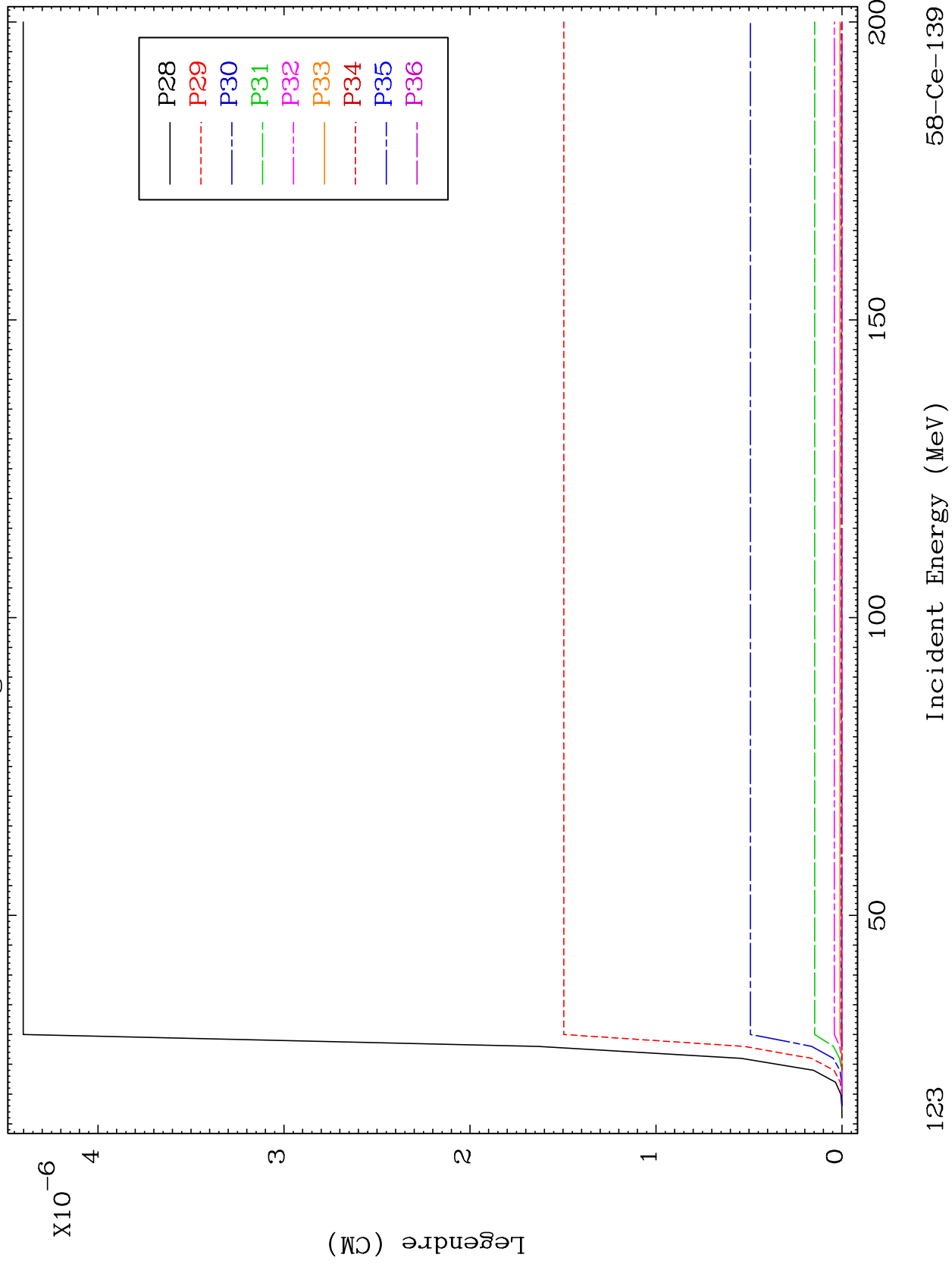
122

58-Ce-139

MAT 5834

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

58-Ce-139

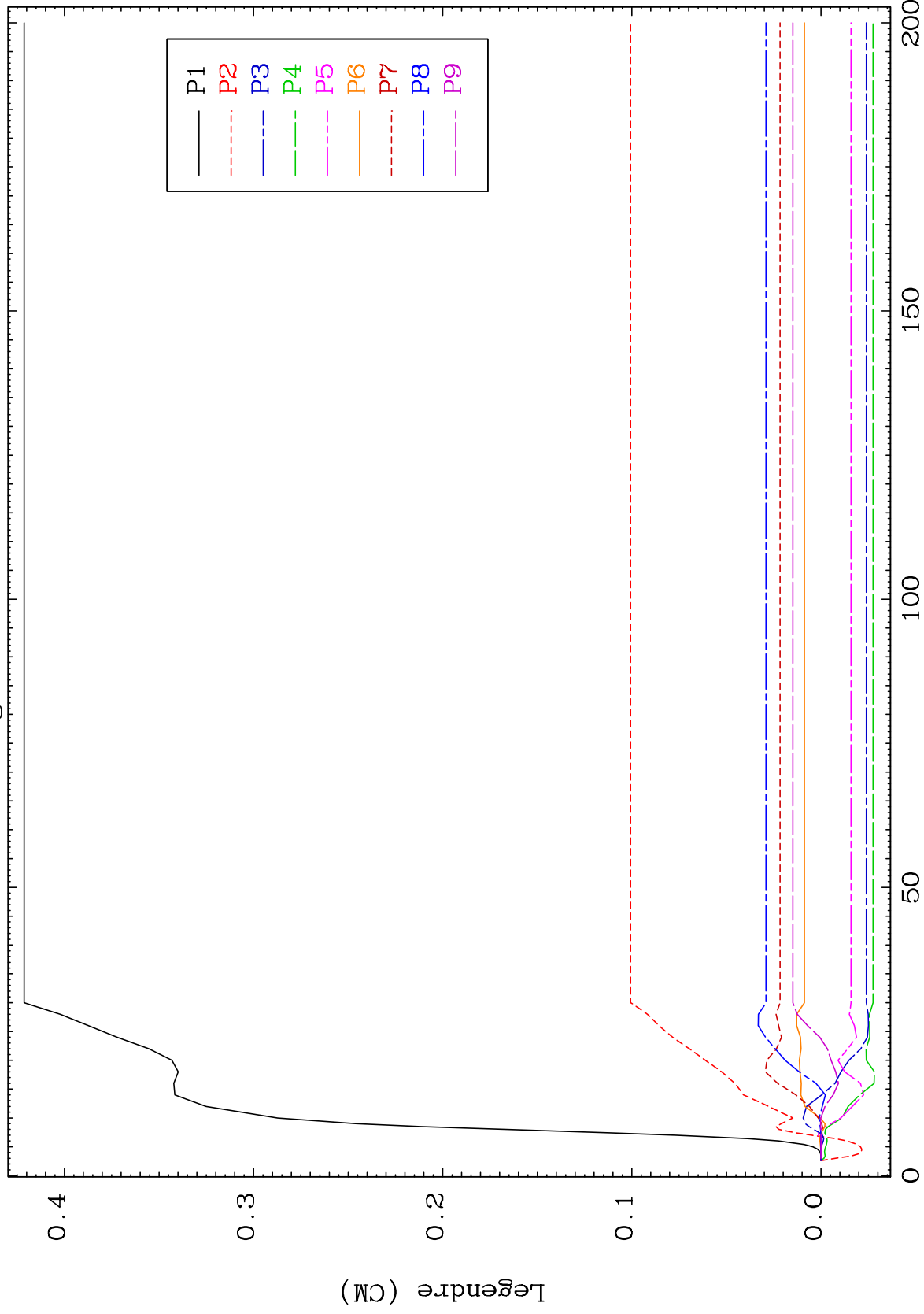


123

MAT 5834

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

58-Ce-139



124

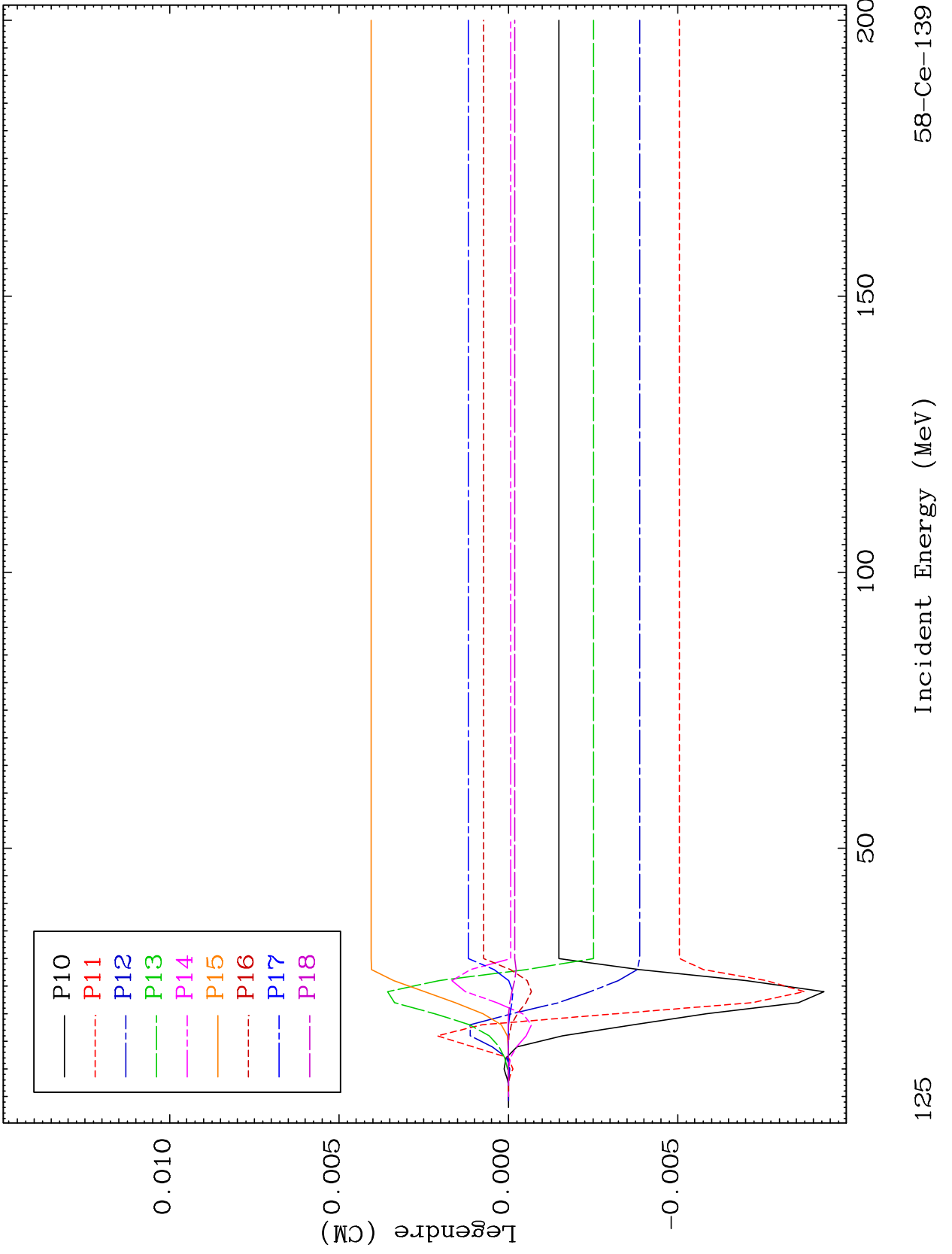
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



125

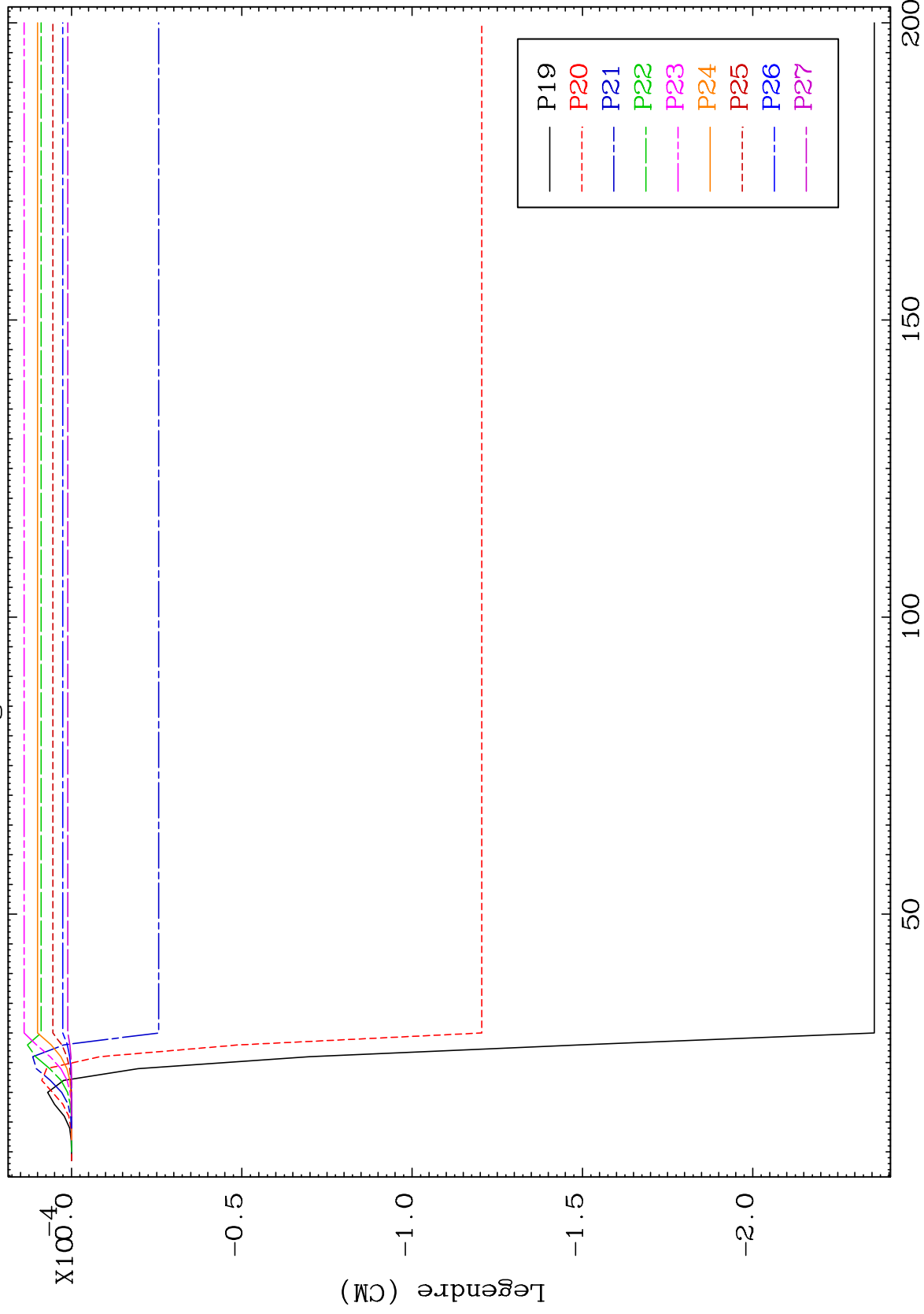
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



126

Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139

$\times 10^{-7}$

4

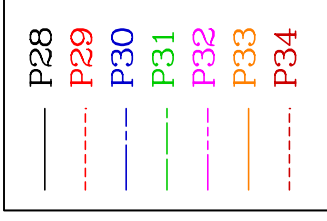
3

2

1

0

Legendre (CM)



50

100

150

200

127

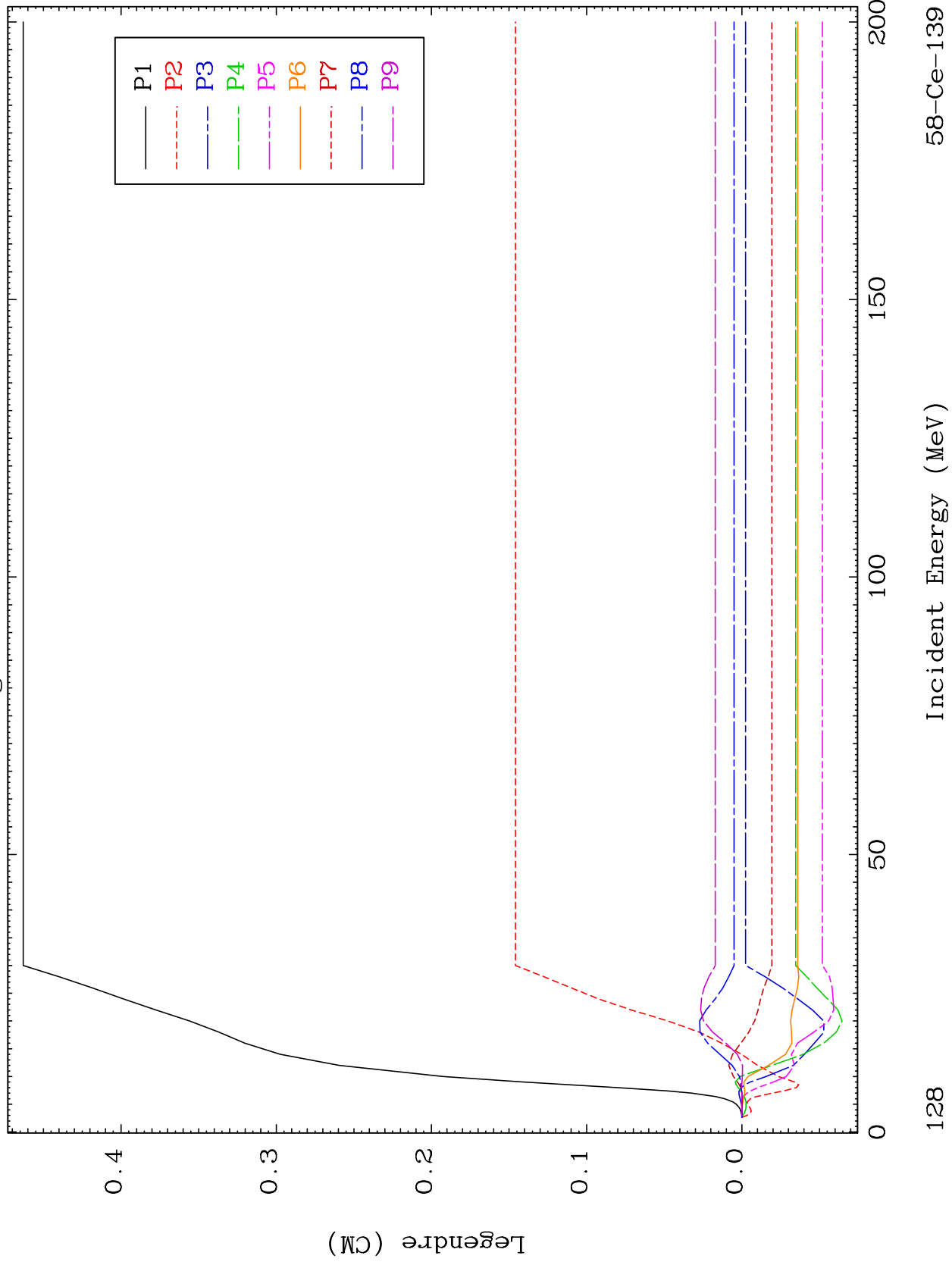
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



58-Ce-139

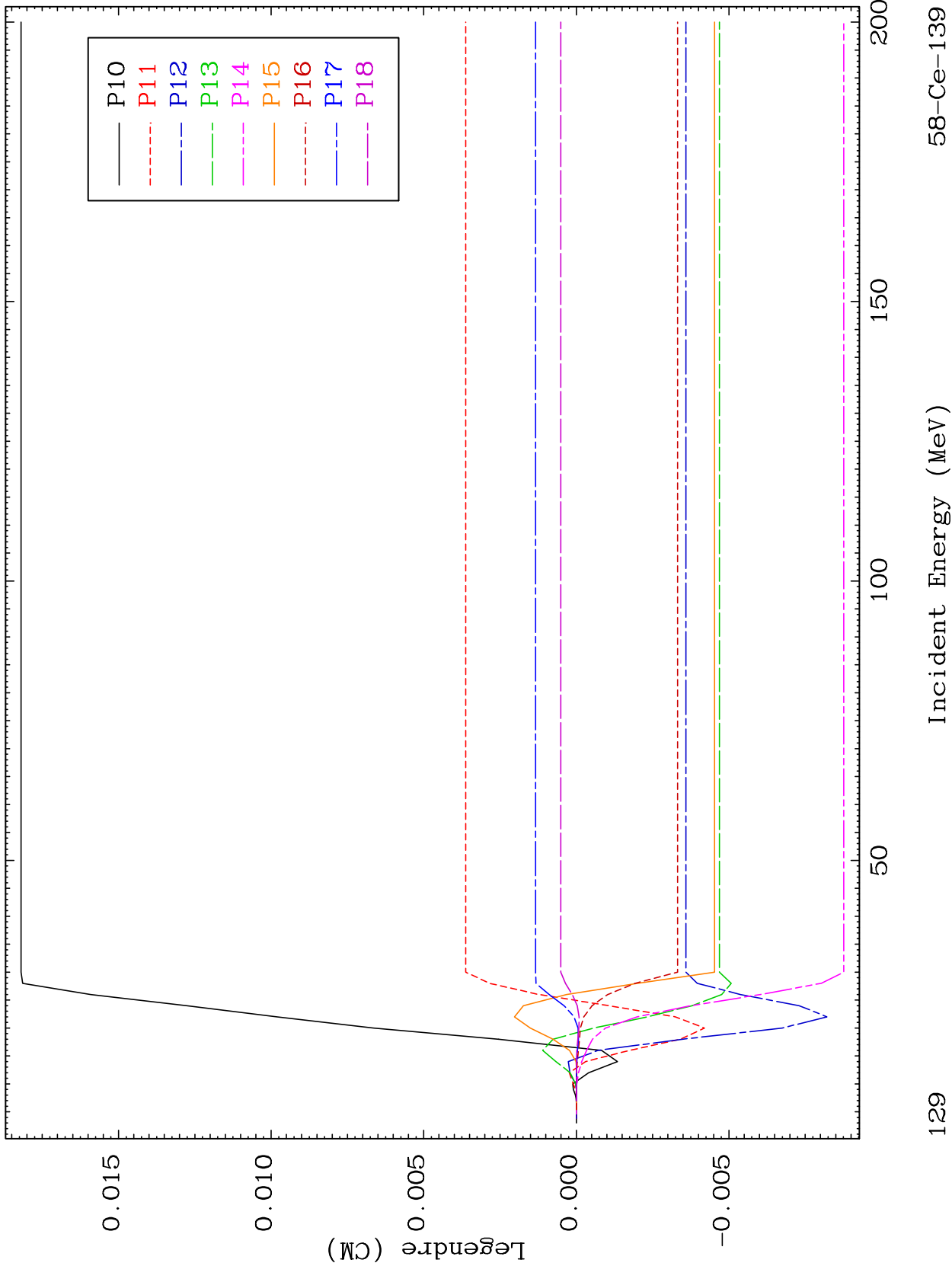
Incident Energy (MeV)

128

MAT 5834

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

58-Ce-139



129

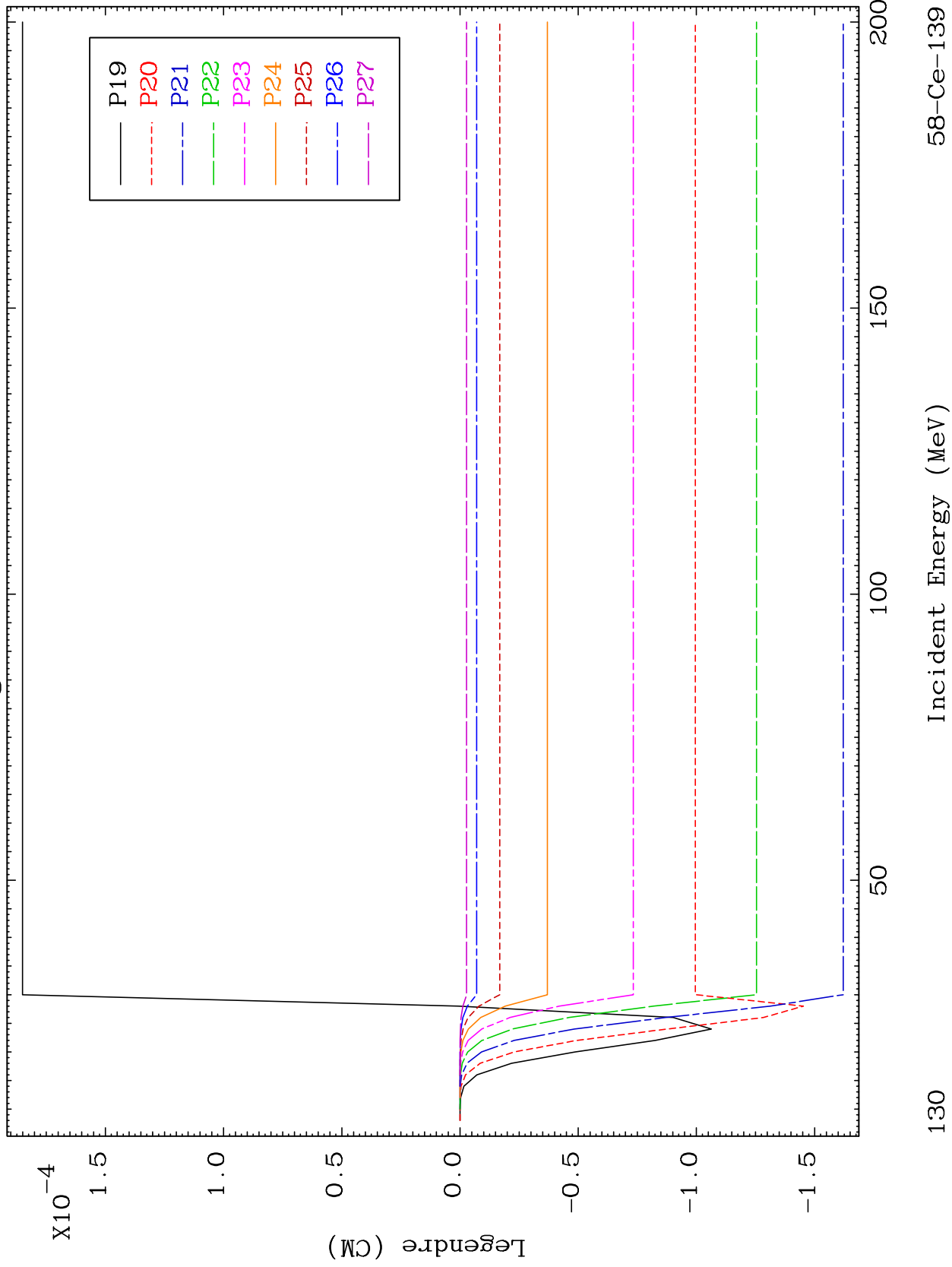
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

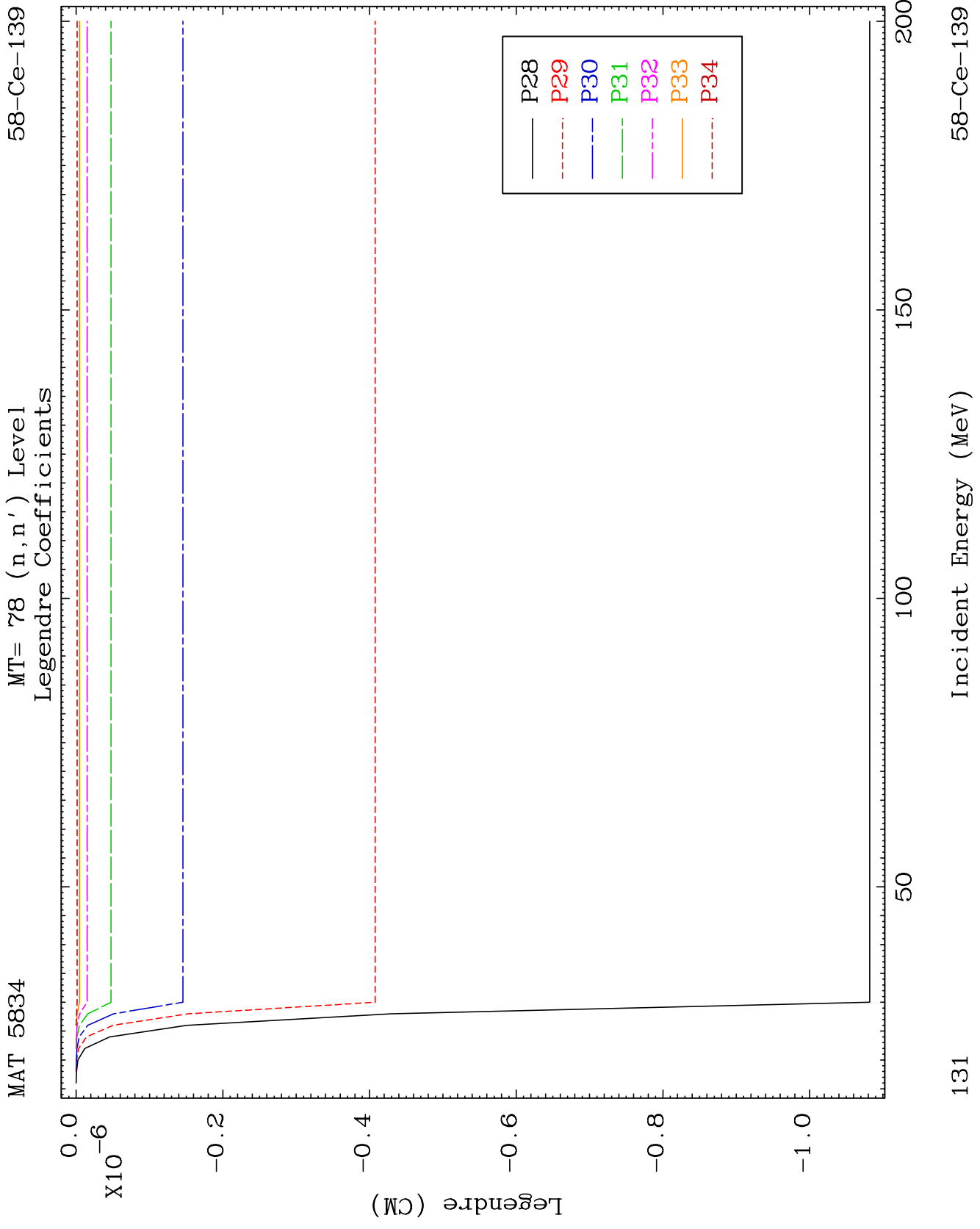
58-Ce-139



130

Incident Energy (MeV)

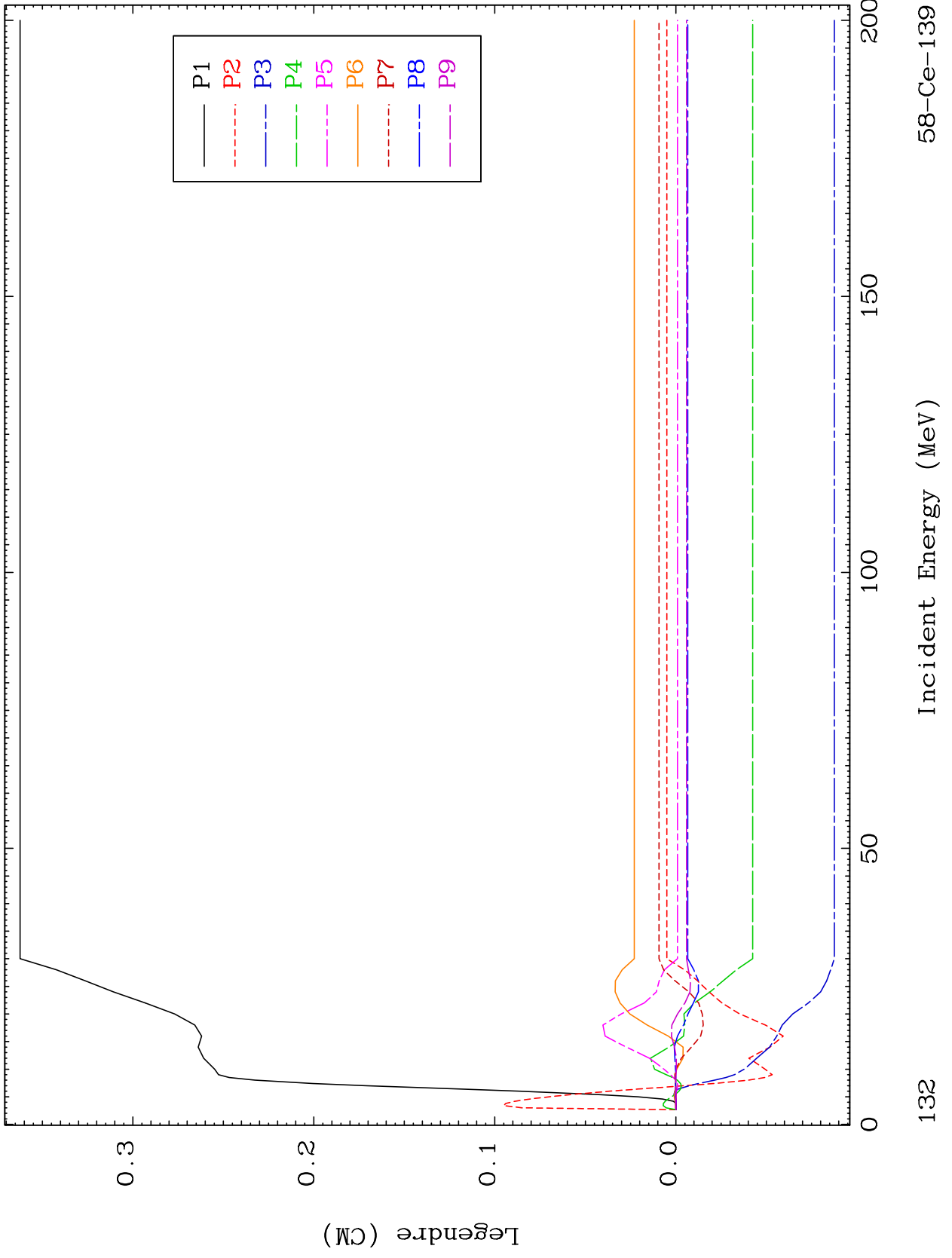
58-Ce-139



MAT 5834

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

58-Ce-139



58-Ce-139

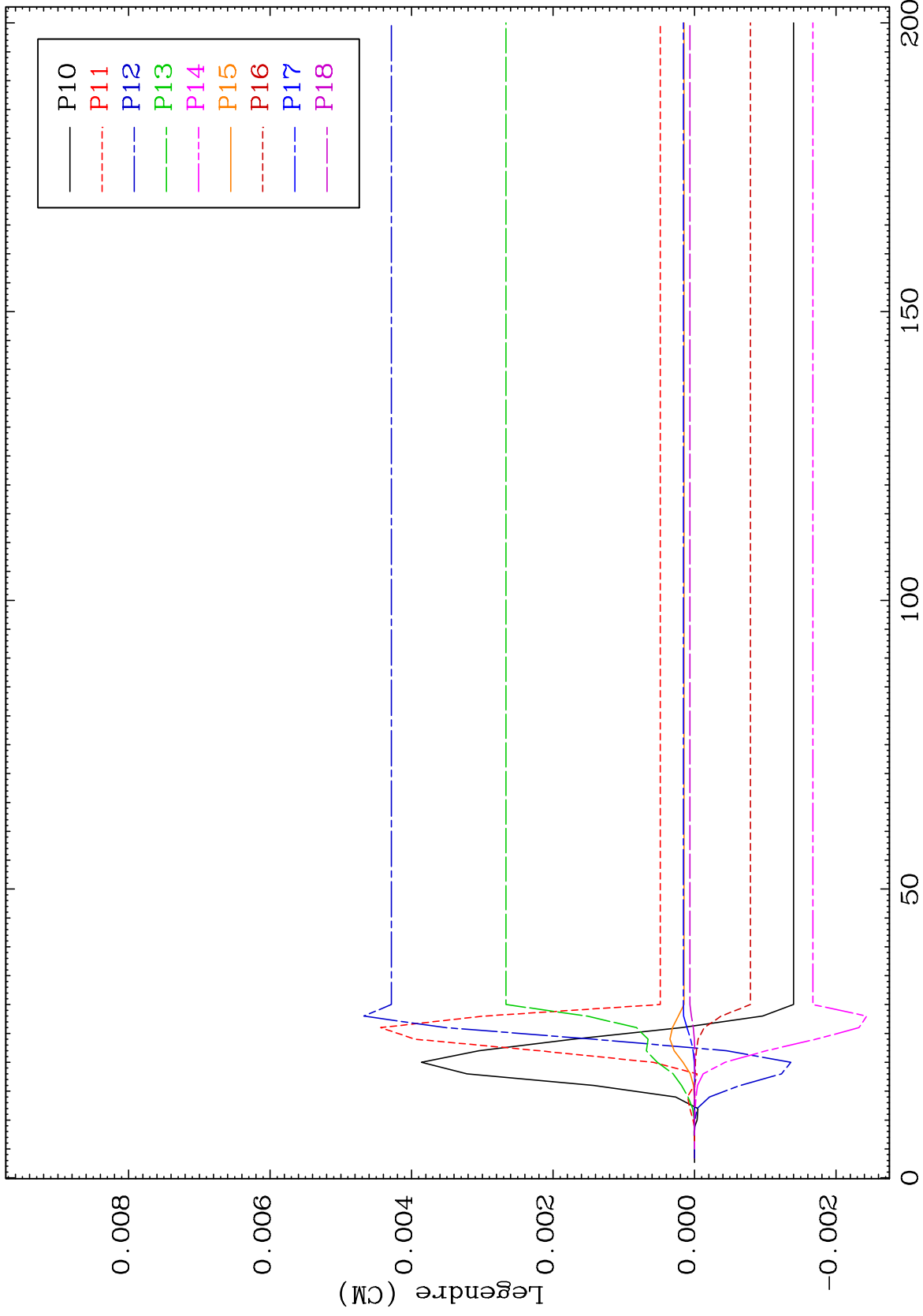
Incident Energy (MeV)

132

MAT 5834

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

58-Ce-139



133

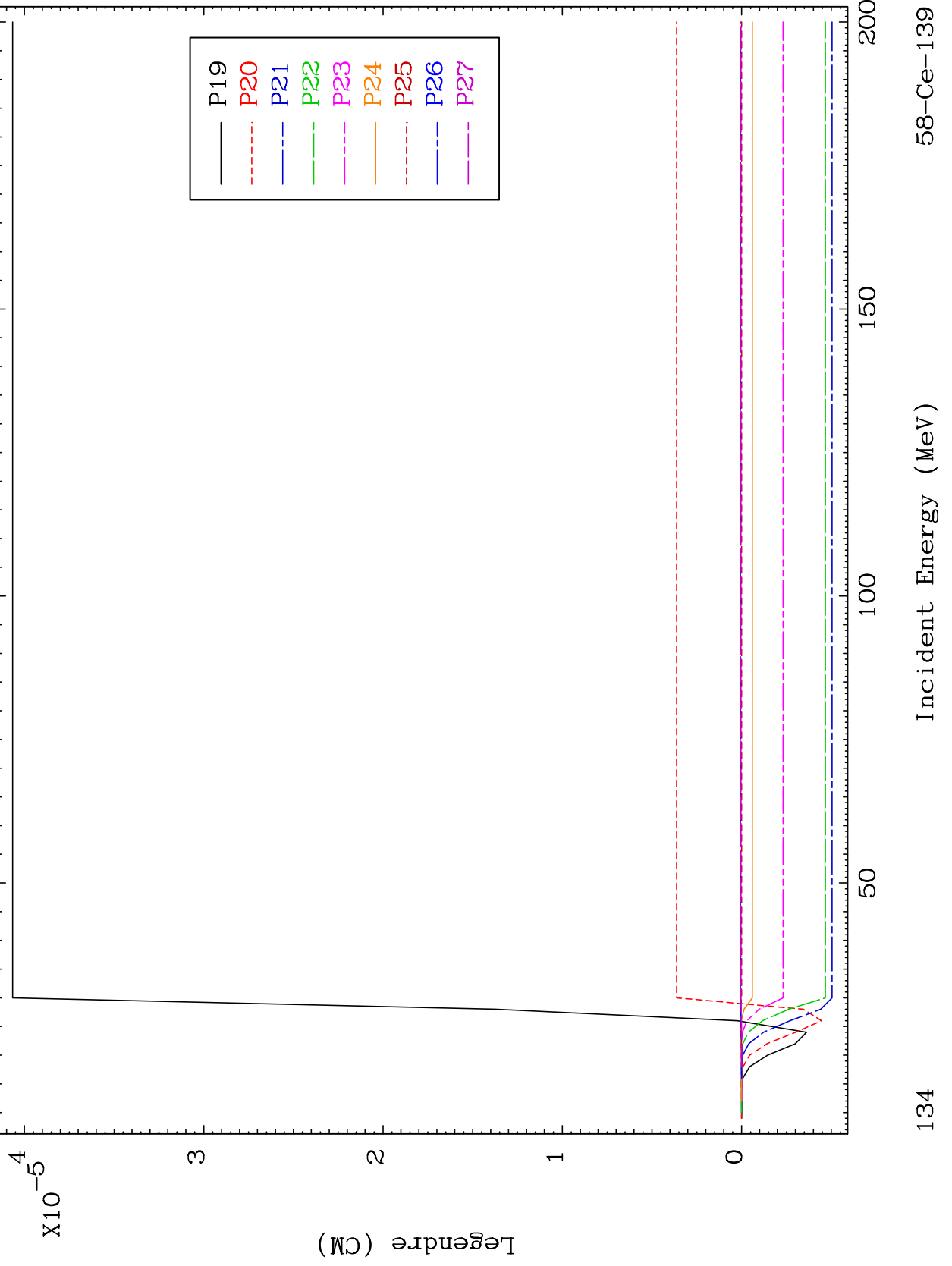
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



134

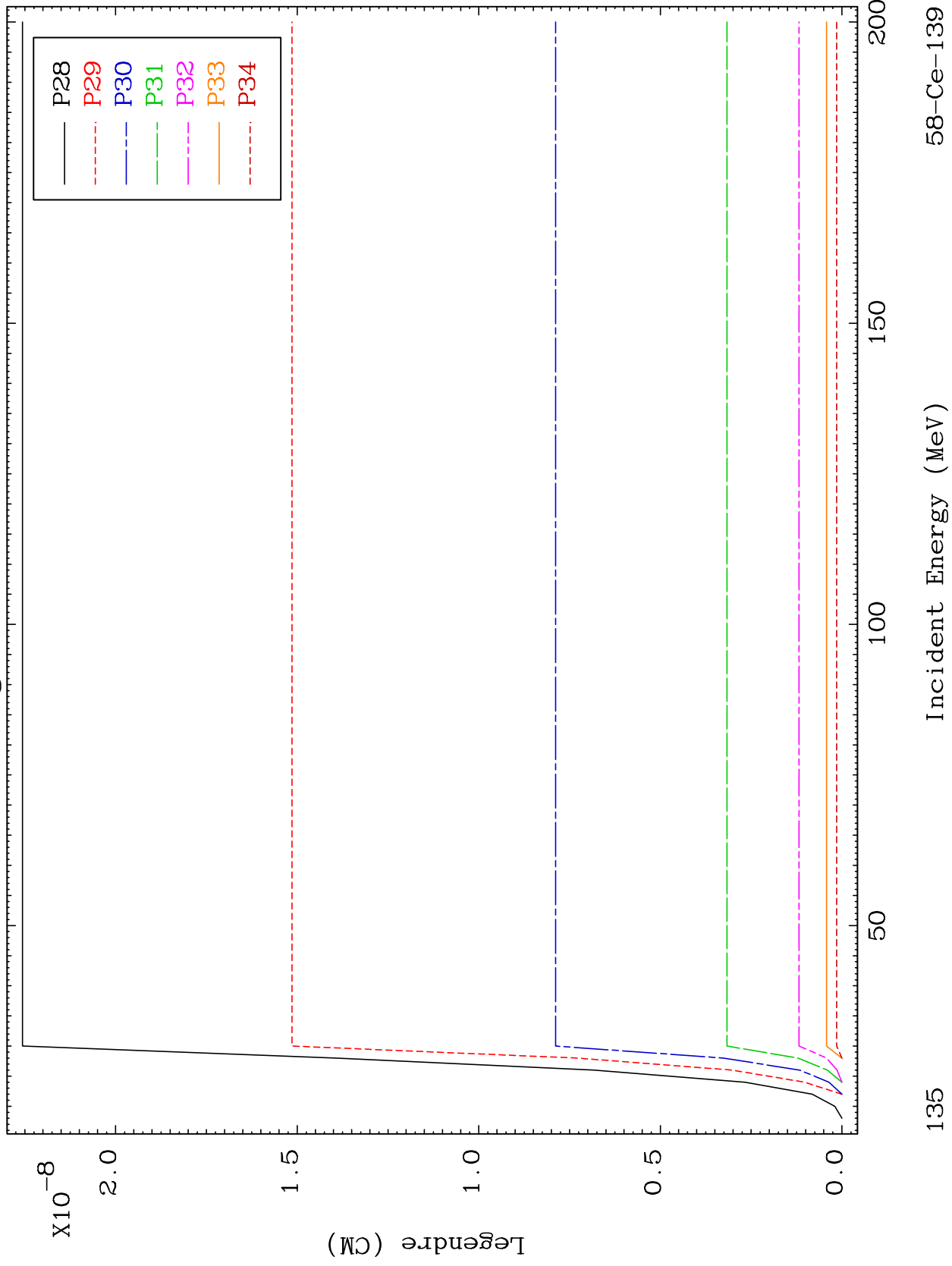
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139

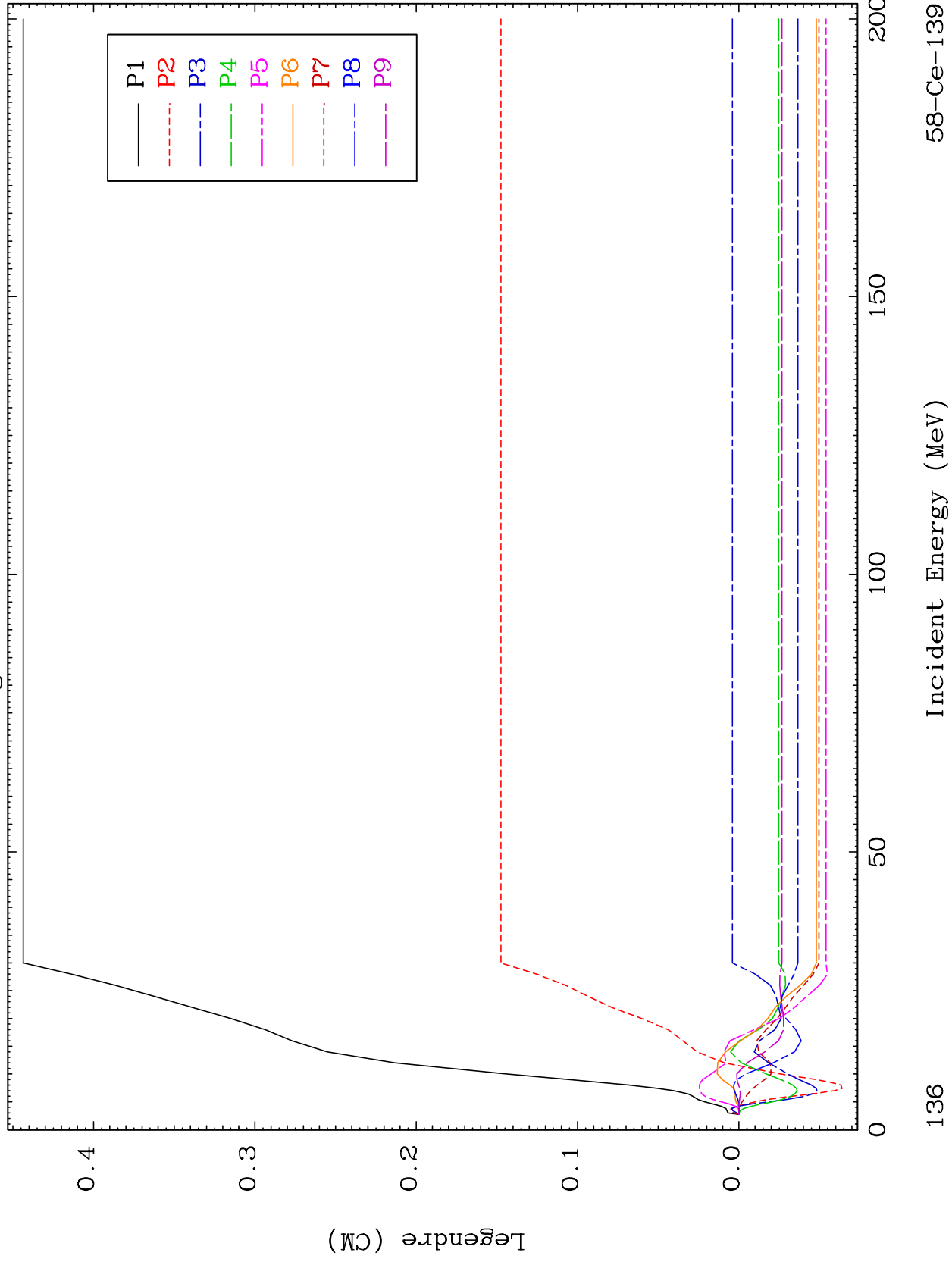


58-Ce-139

MAT 5834

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

58-Ce-139



58-Ce-139

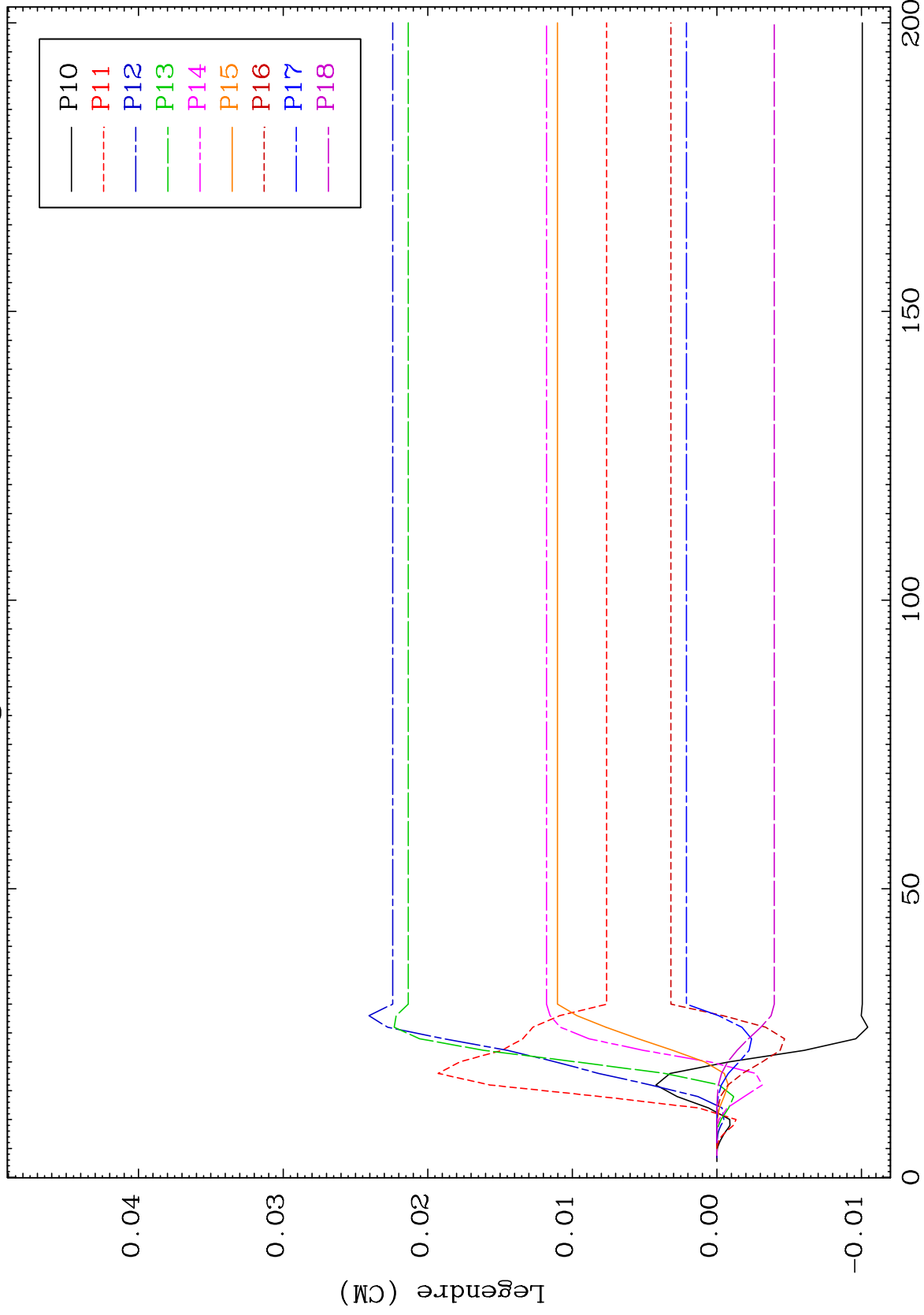
Incident Energy (MeV)

136

MAT 5834

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

58-Ce-139



137

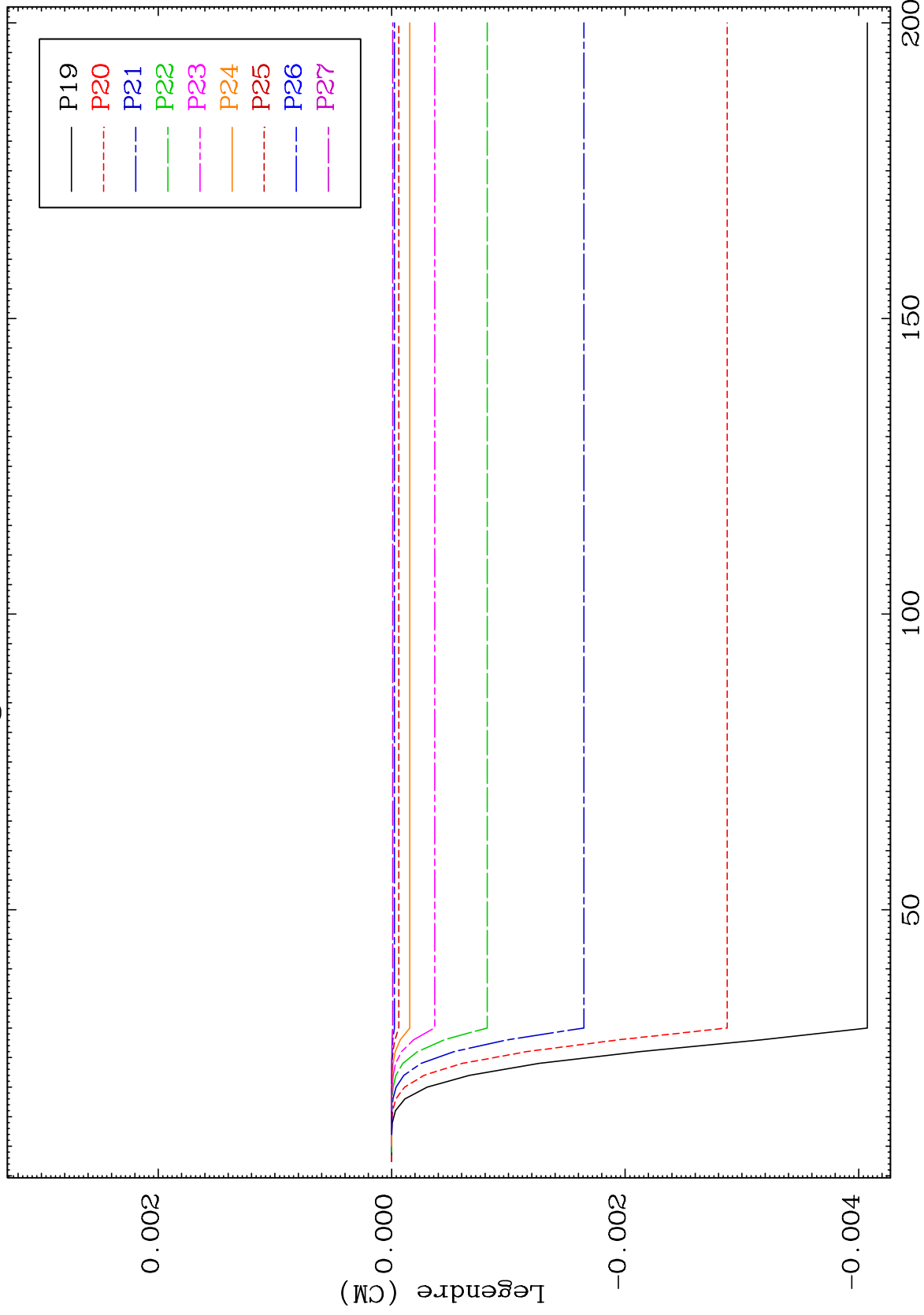
Incident Energy (MeV)

58-Ce-139

MAT 5834

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

58-Ce-139



138

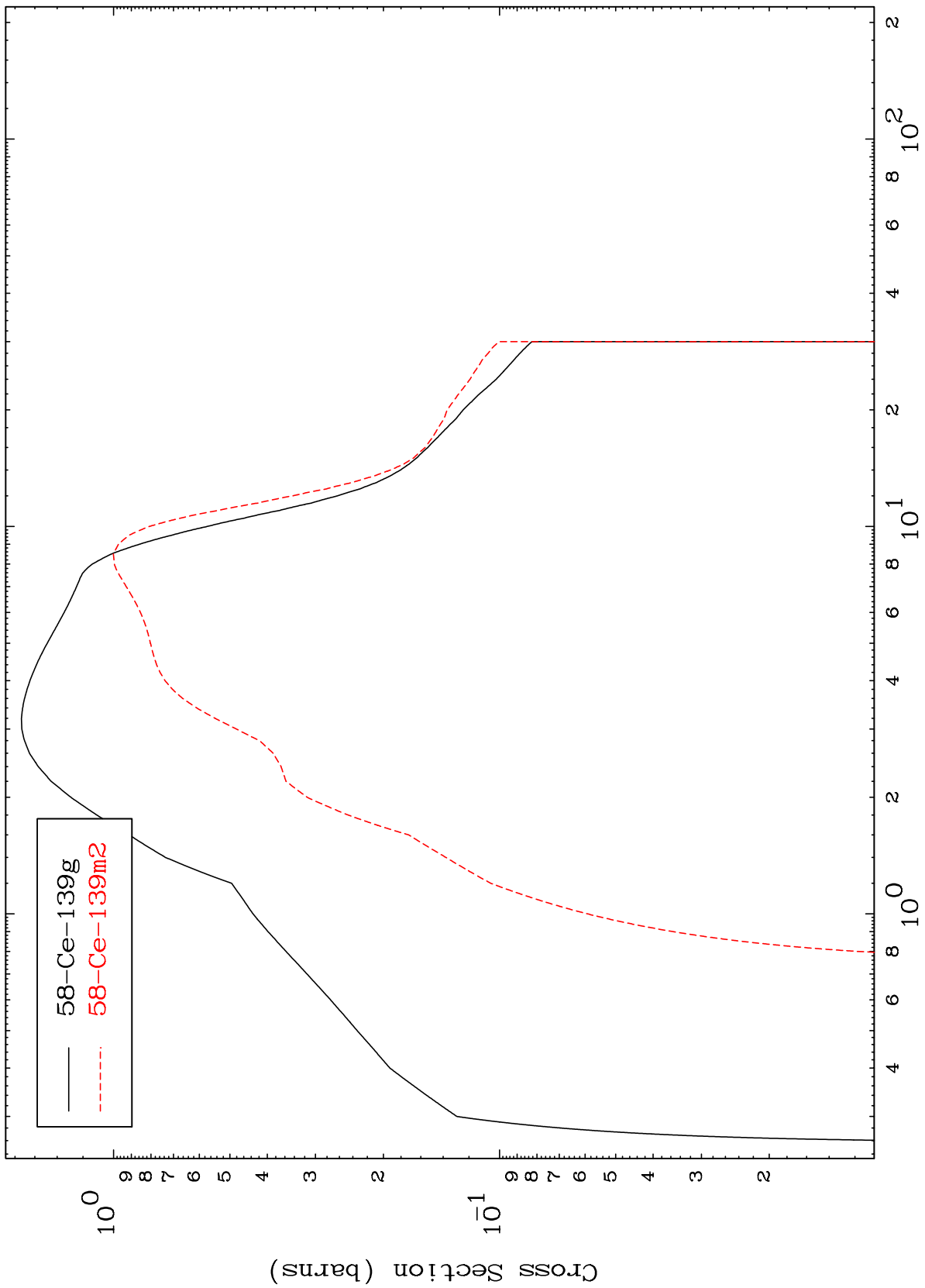
Incident Energy (MeV)

58-Ce-139

MAT 5834

58-Ce-139

Radionuclide Production Cross Section



58-Ce-139g
58-Ce-139m2

58-Ce-139

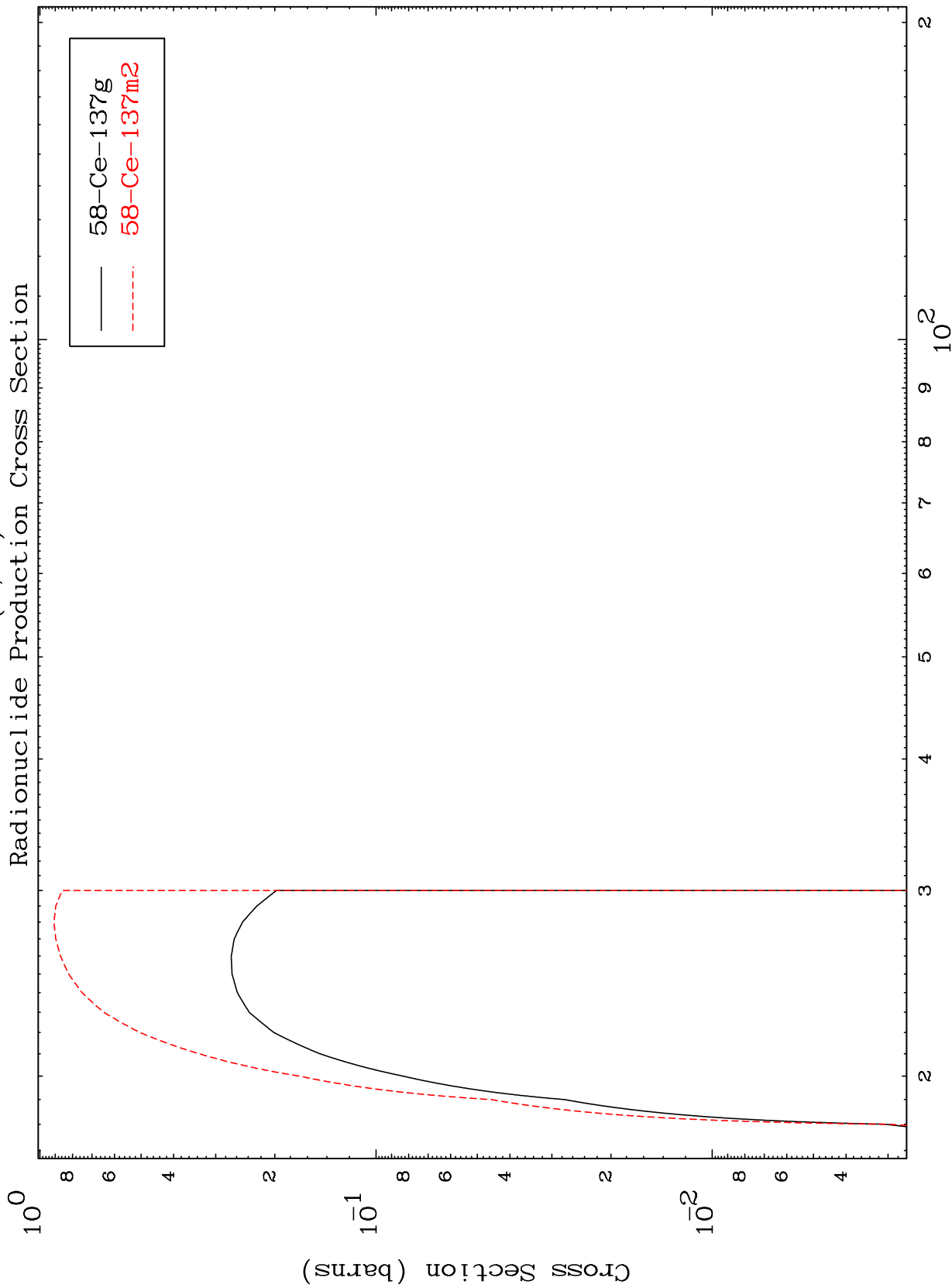
Incident Energy (MeV)

140

MAT 5834

58-Ce-139

(n,3n)
Radionuclide Production Cross Section



141

Incident Energy (MeV)

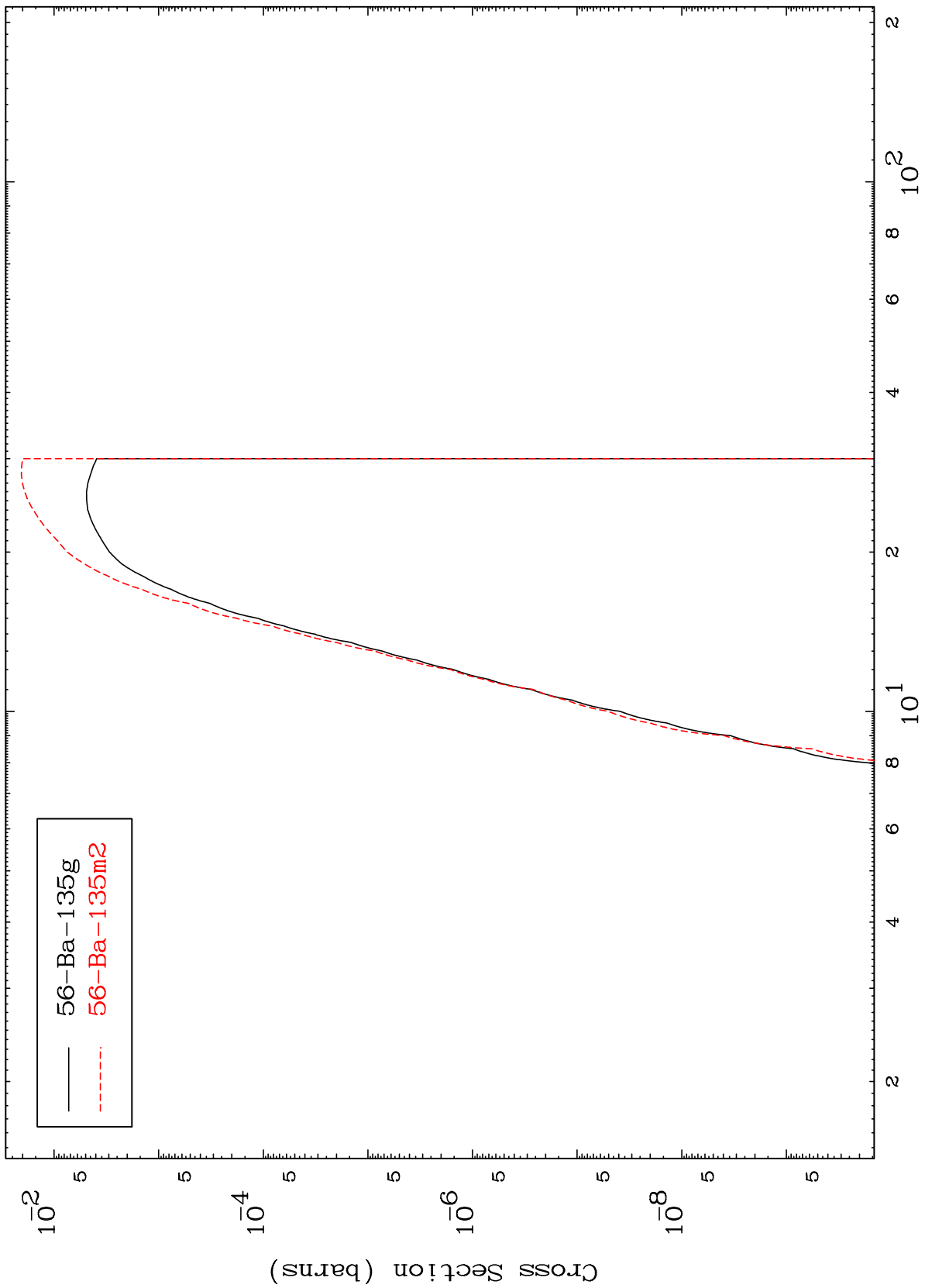
58-Ce-139

MAT 5834

(n,n') α

58-Ce-139

Radionuclide Production Cross Section



142

Incident Energy (MeV)

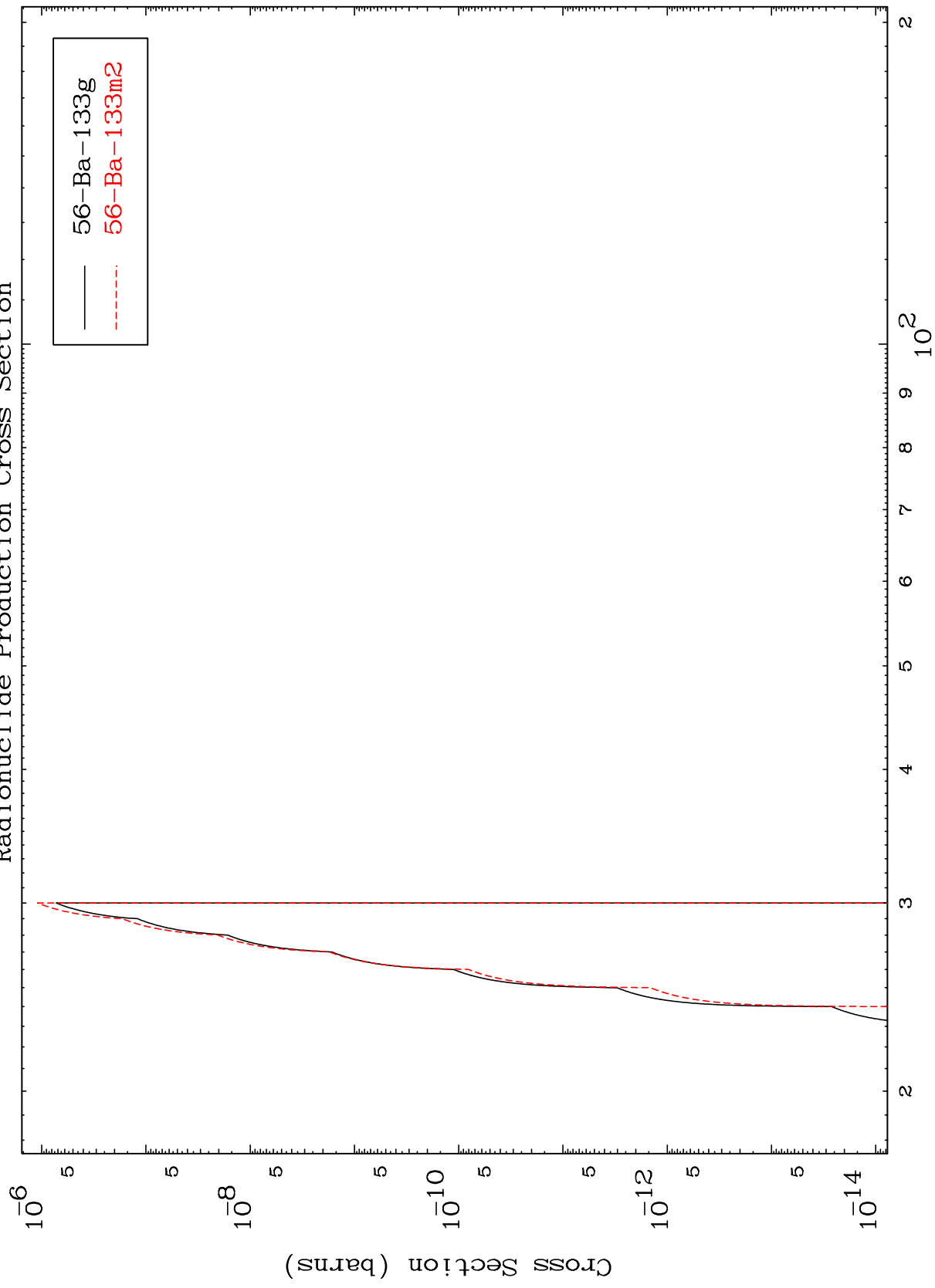
58-Ce-139

MAT 5834

(n,3n) α

58-Ce-139

Radionuclide Production Cross Section



143

Incident Energy (MeV)

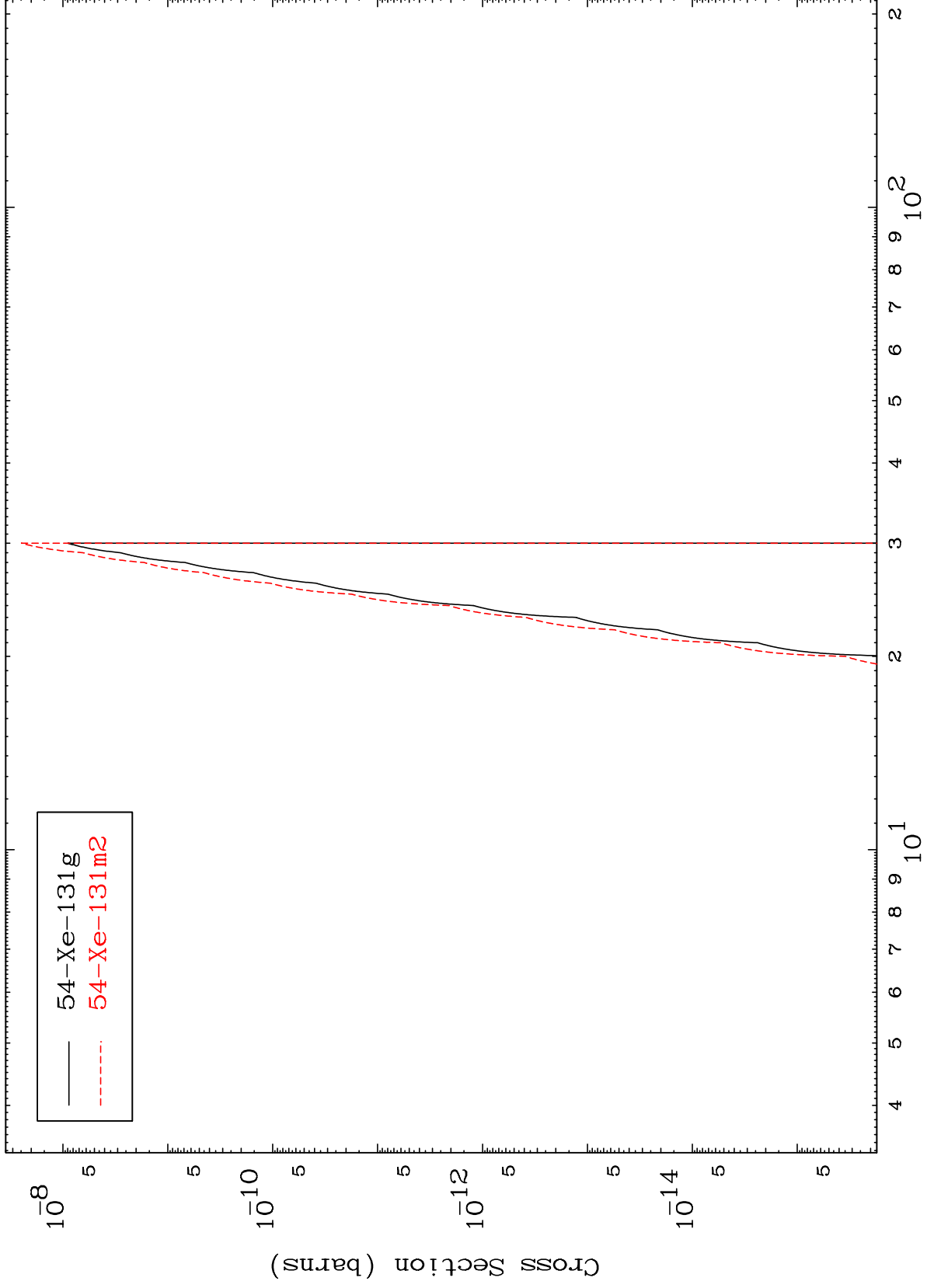
58-Ce-139

MAT 5834

(n,n') 2α

58-Ce-139

Radionuclide Production Cross Section



144

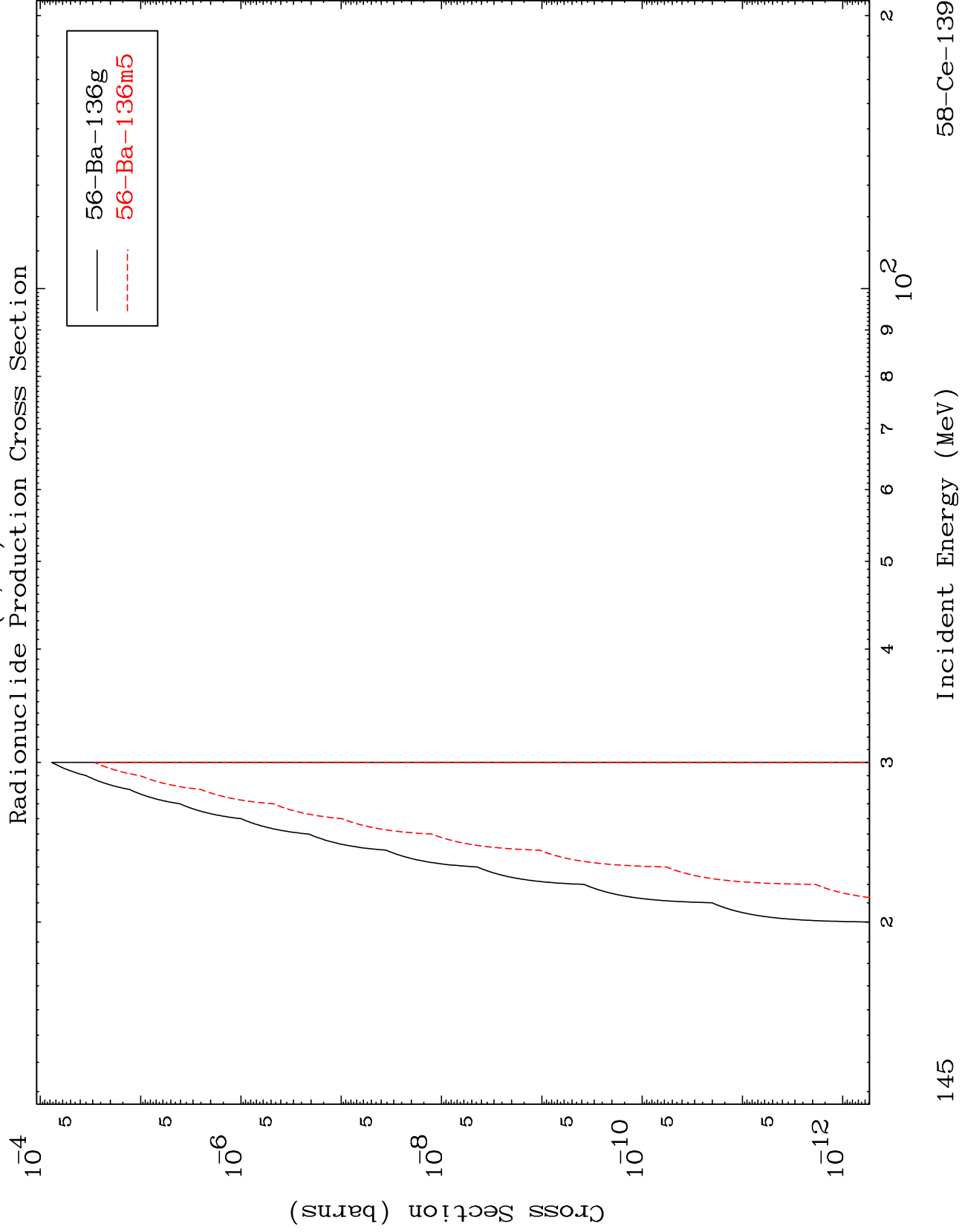
Incident Energy (MeV)

58-Ce-139

MAT 5834

(n,n') He-3

58-Ce-139



145

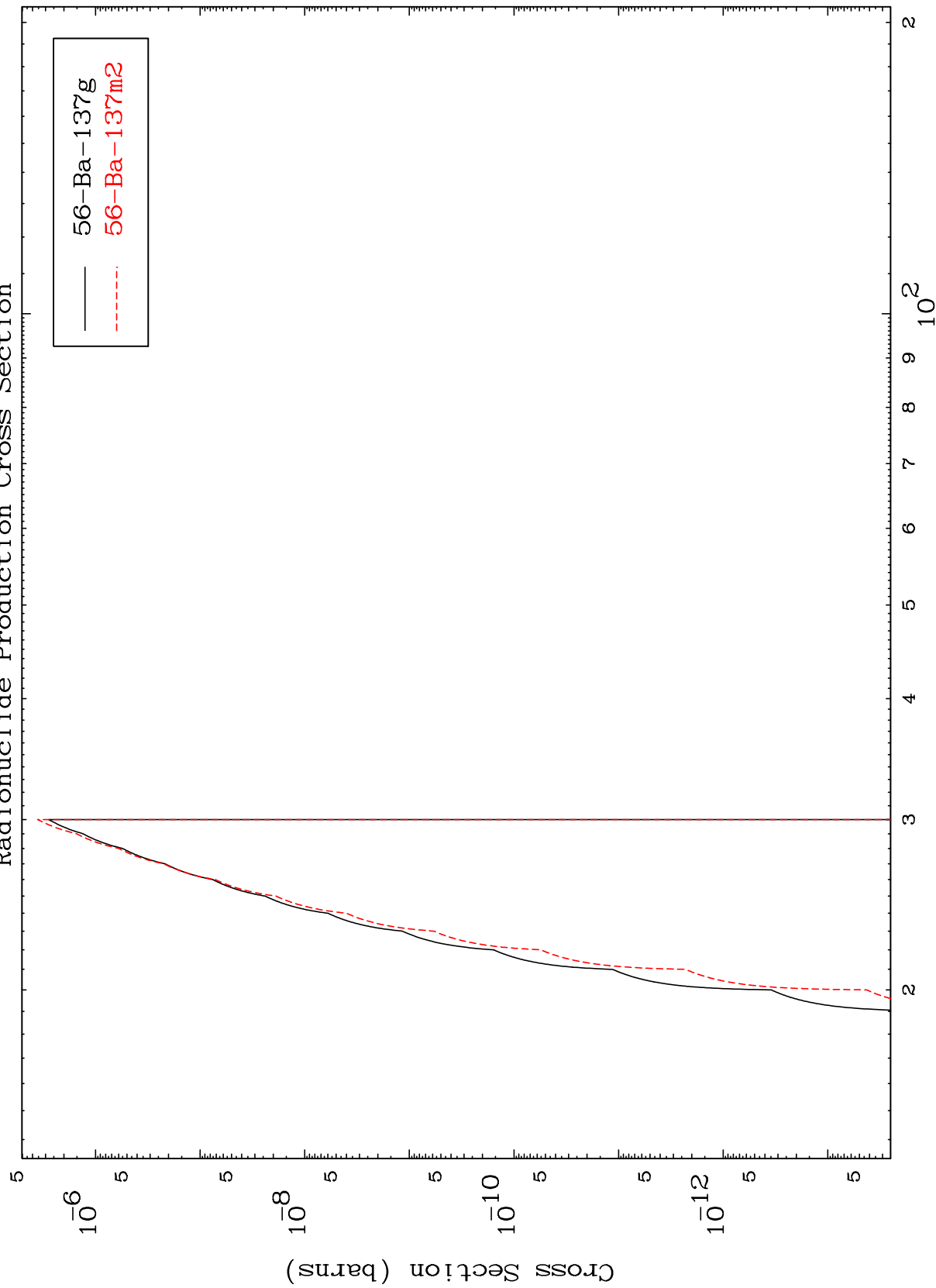
58-Ce-139

MAT 5834

(n,2n) p

58-Ce-139

Radionuclide Production Cross Section



146

Incident Energy (MeV)

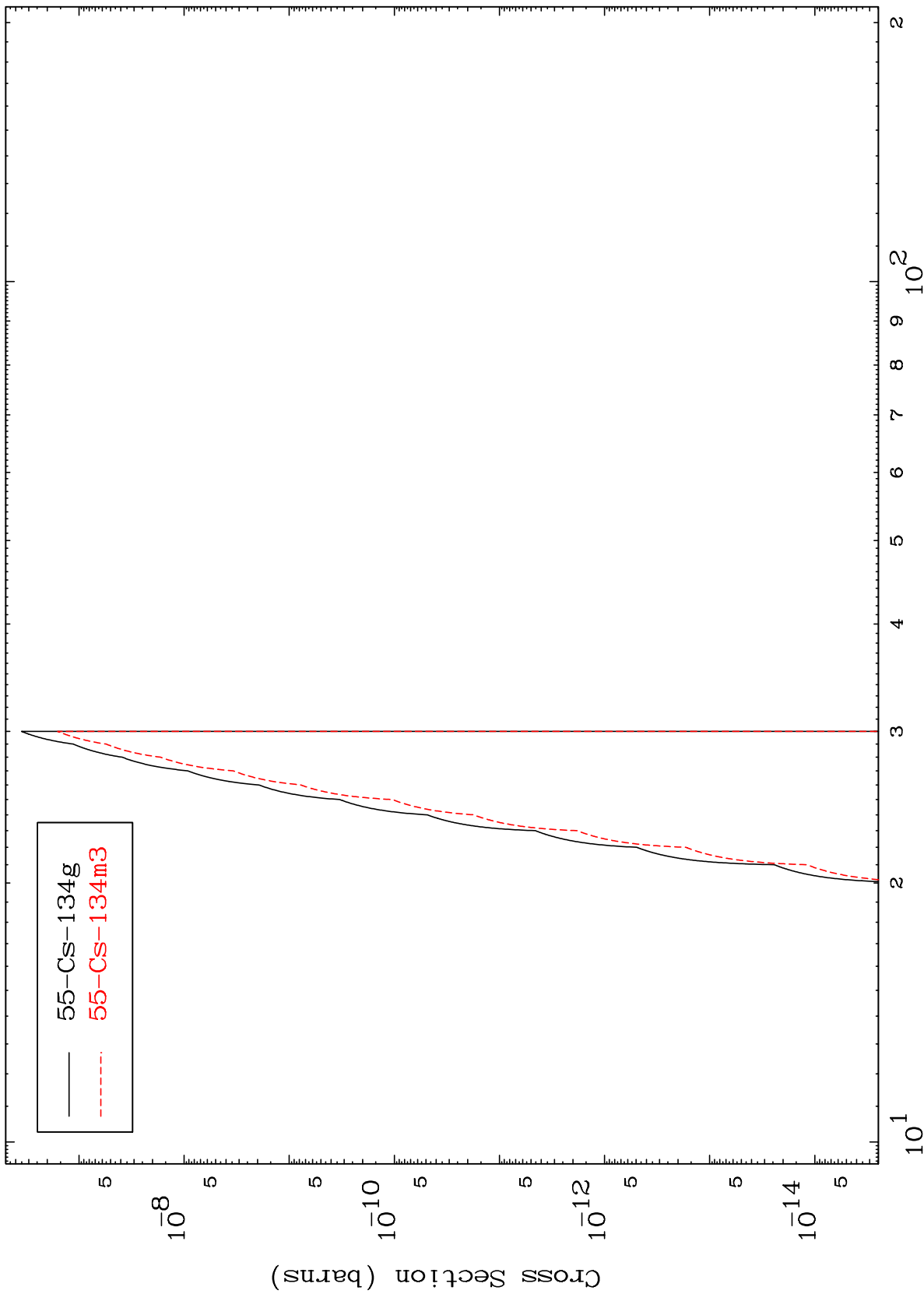
58-Ce-139

MAT 5834

(n,n') p α

58-Ce-139

Radionuclide Production Cross Section



147

Incident Energy (MeV)

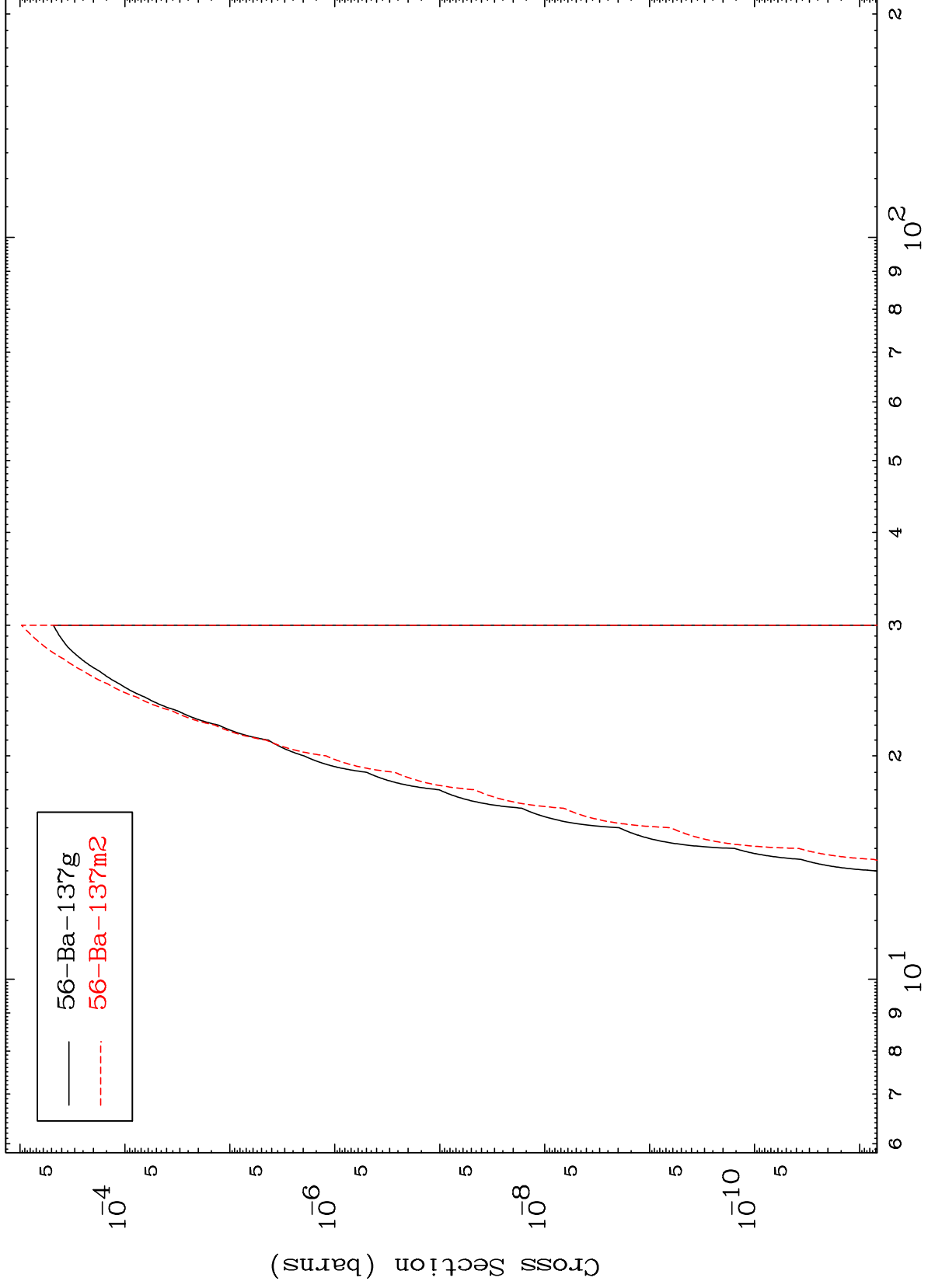
58-Ce-139

MAT 5834

(n,He-3)

58-Ce-139

Radionuclide Production Cross Section



148

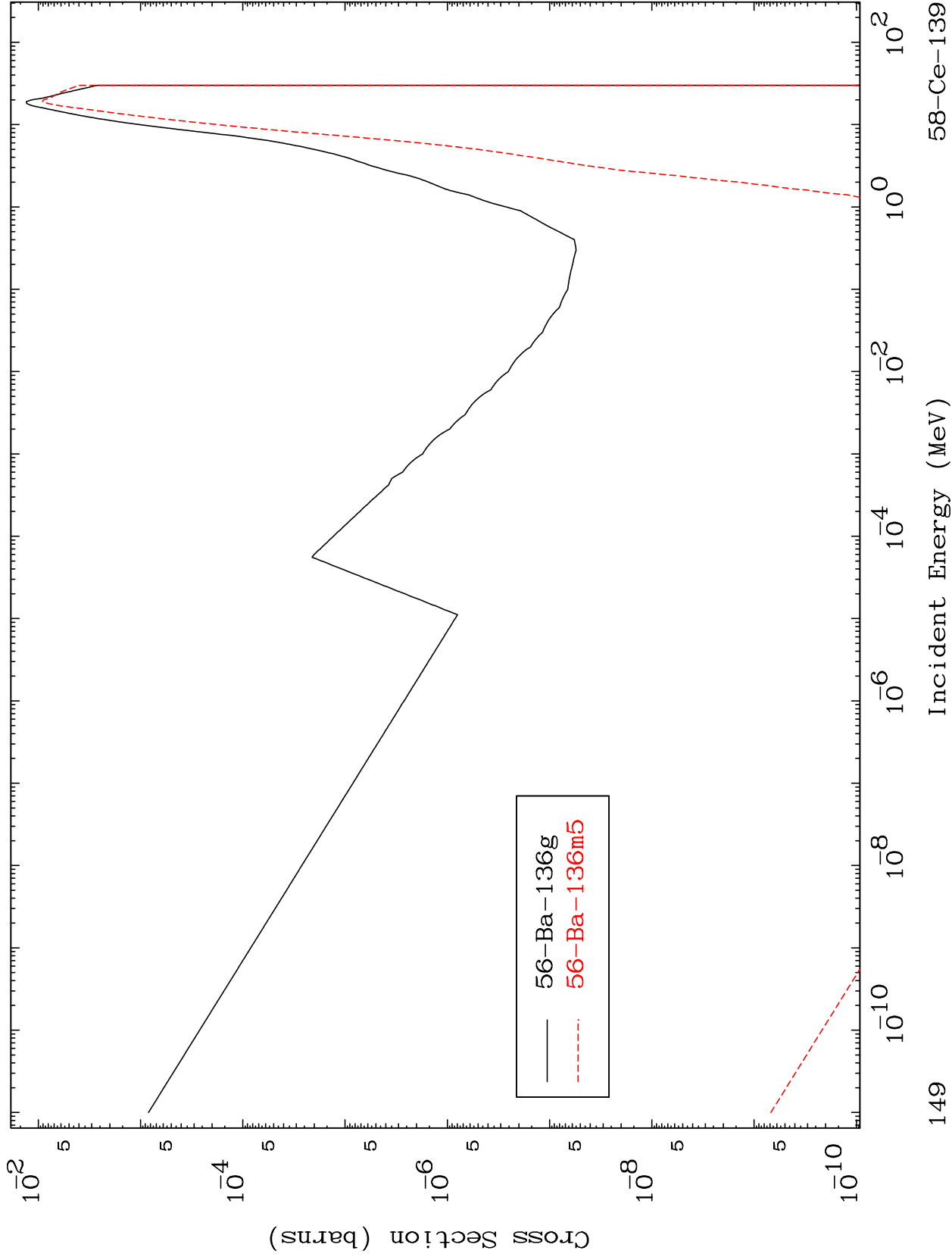
Incident Energy (MeV)

58-Ce-139

MAT 5834

58-Ce-139

Radionuclide Production Cross Section

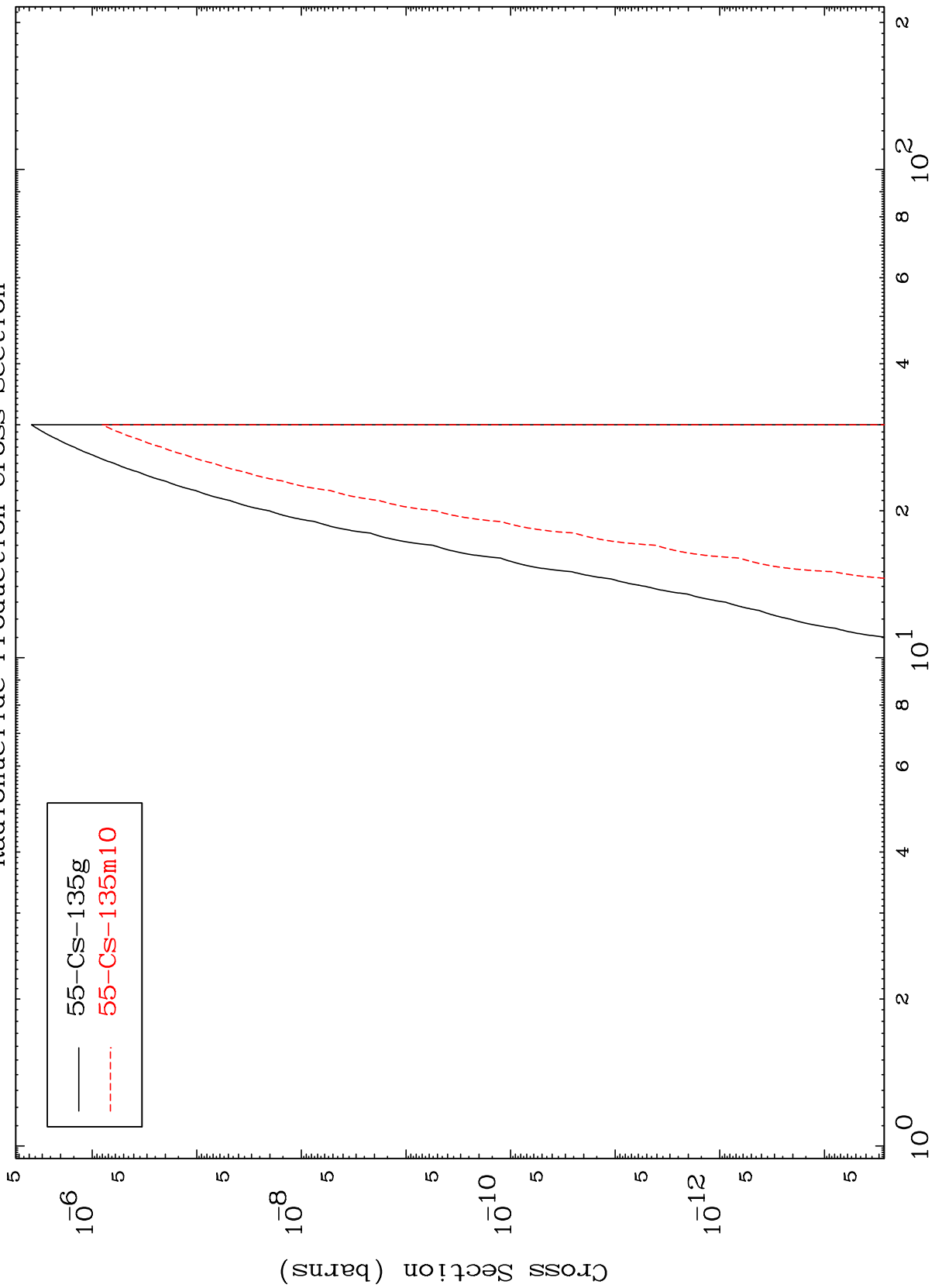


MAT 5834

(n,p) α

58-Ce-139

Radionuclide Production Cross Section



— 55-Cs-135g
- - - 55-Cs-135m10

150

Incident Energy (MeV)

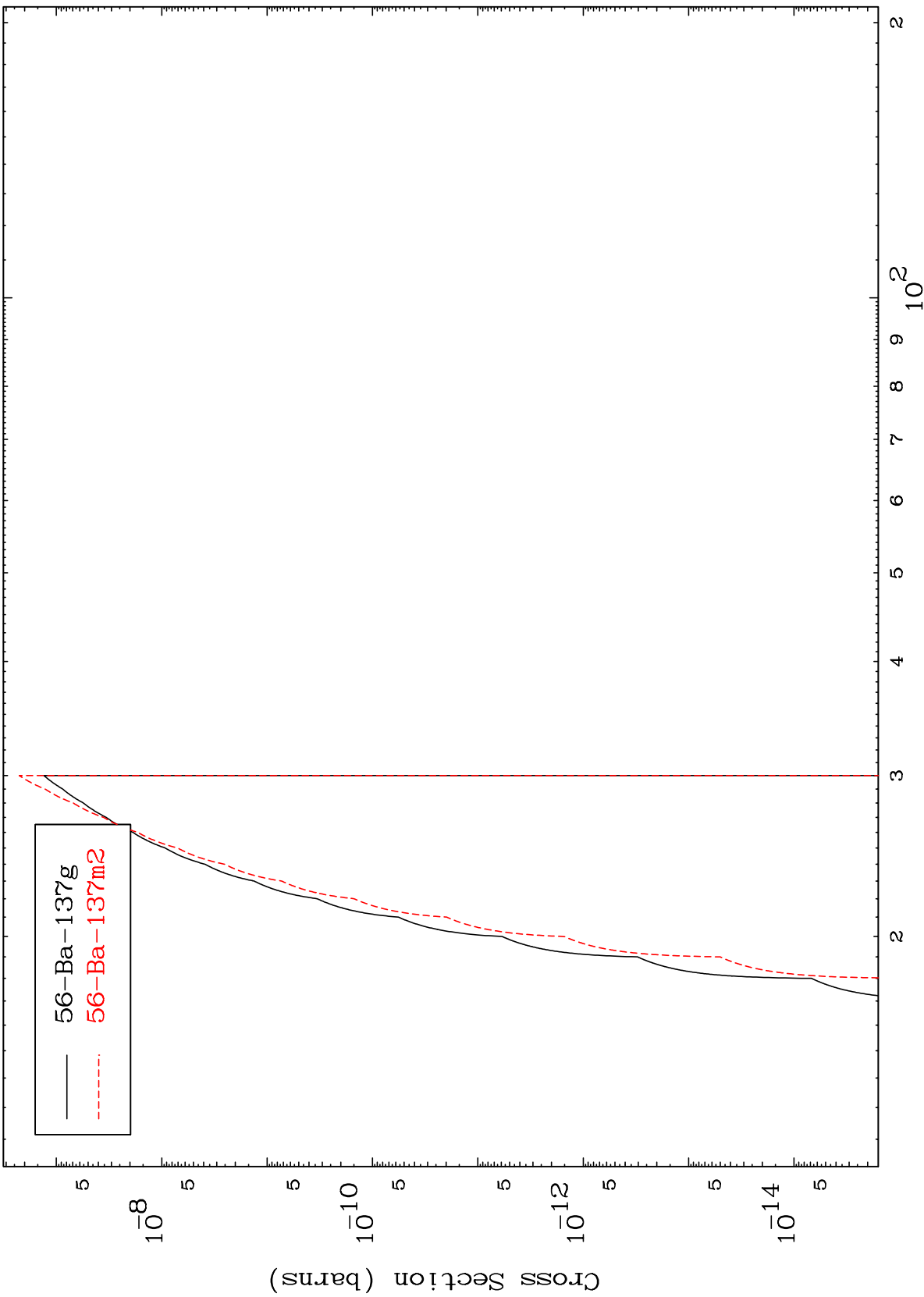
58-Ce-139

MAT 5834

(n,p) d

58-Ce-139

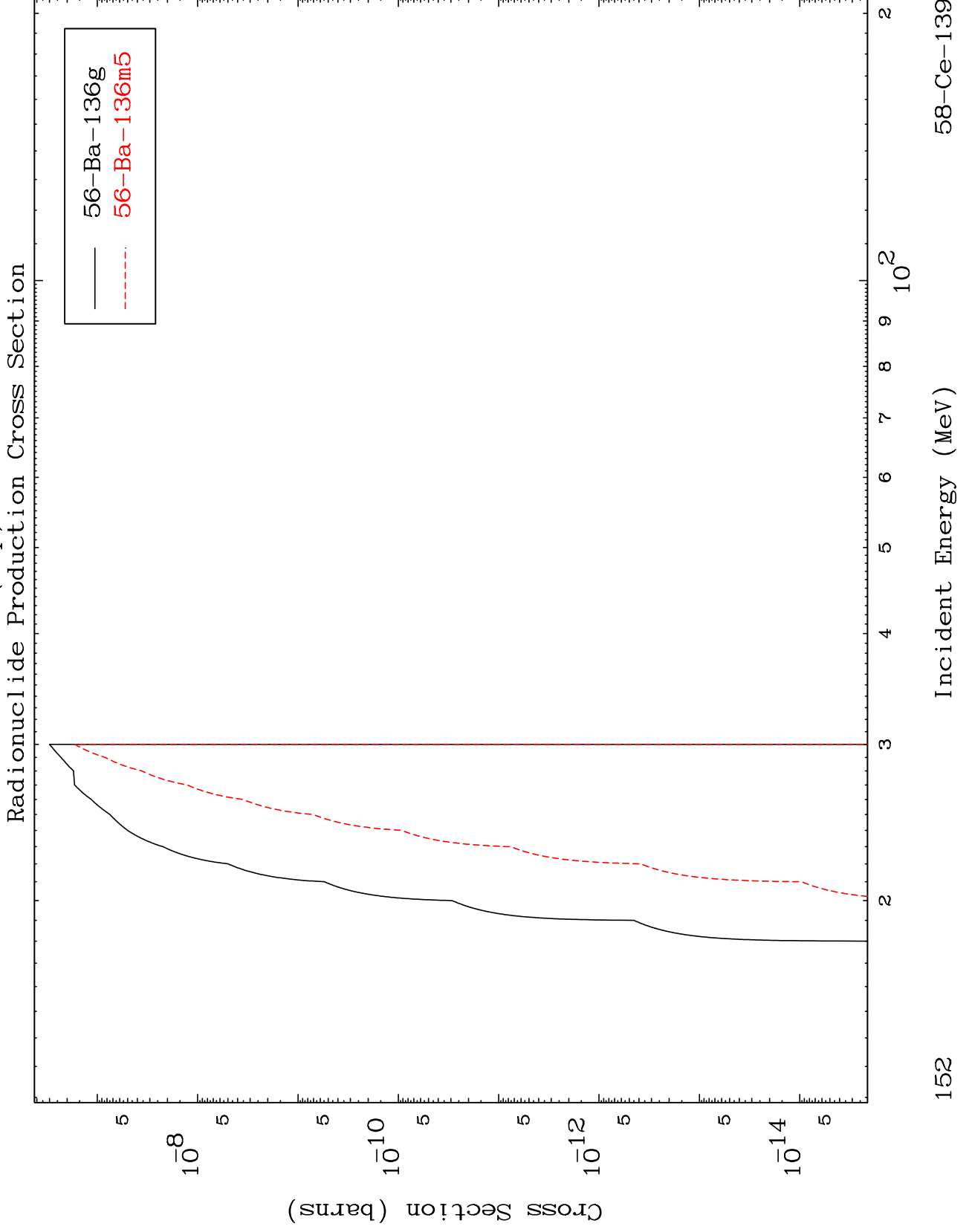
Radionuclide Production Cross Section



151

Incident Energy (MeV)

58-Ce-139

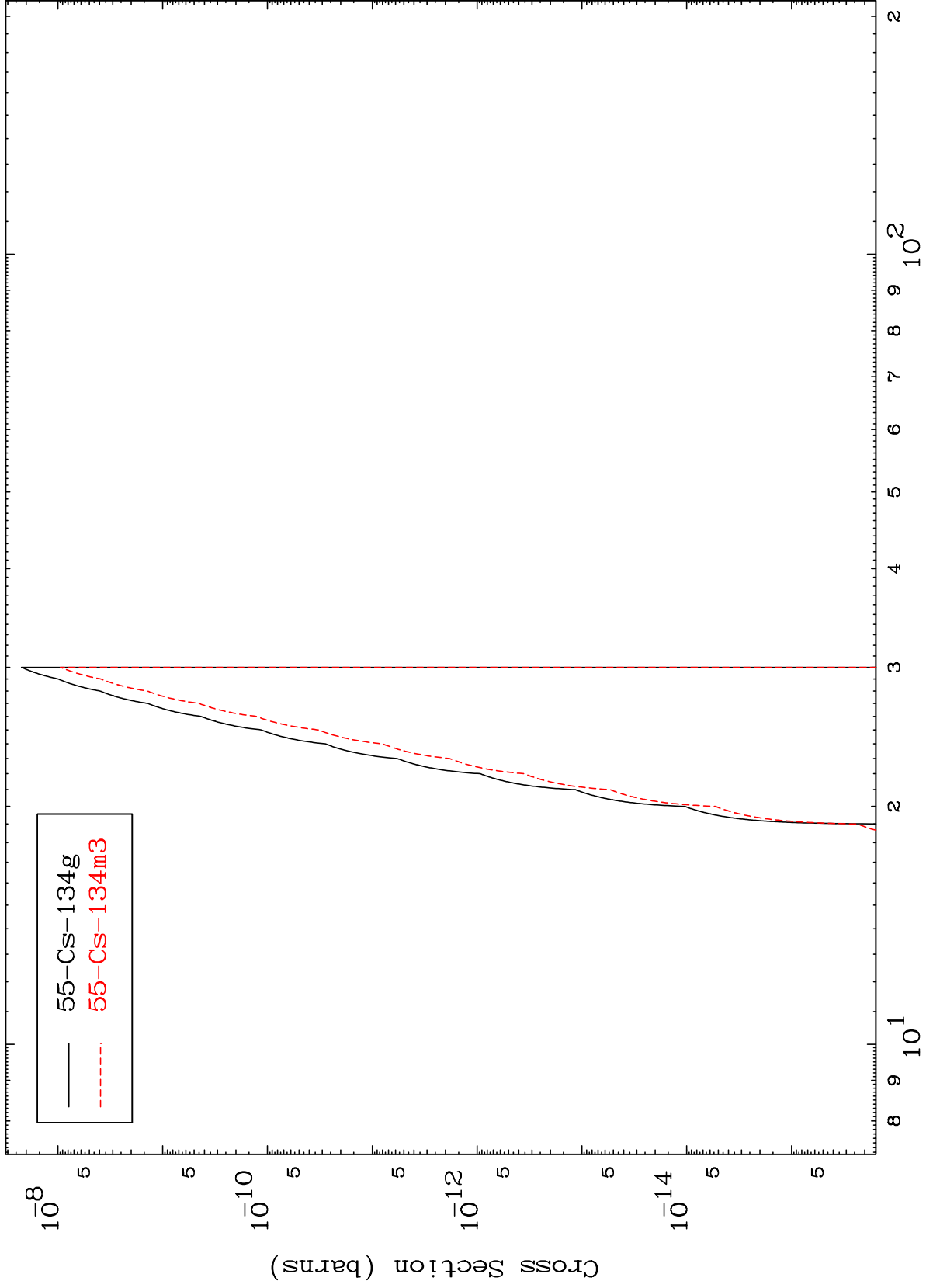


MAT 5834

(n,d) α

58-Ce-139

Radionuclide Production Cross Section



153

Incident Energy (MeV)

58-Ce-139