

Program EVALPLOT
(Version 2018-1)

by

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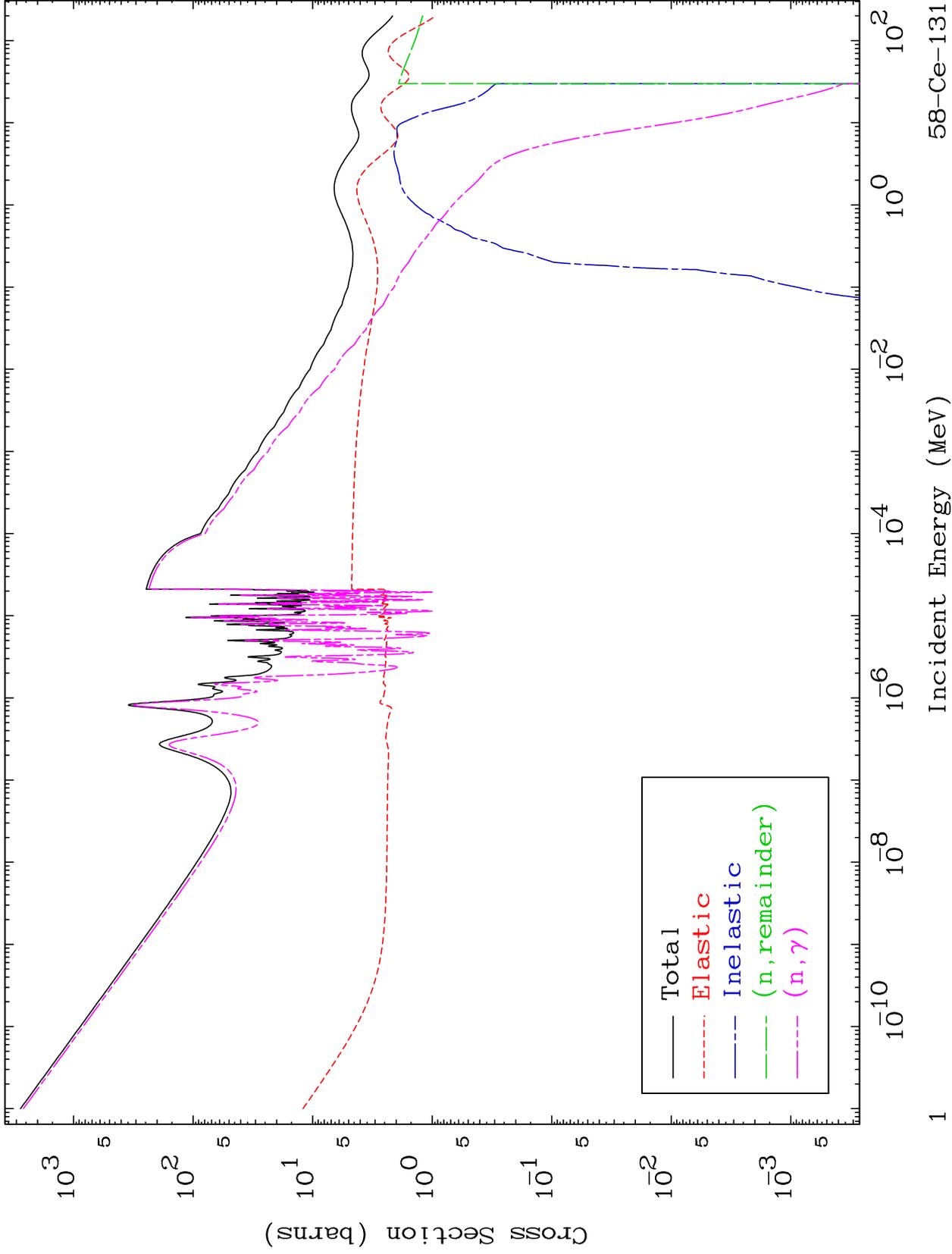
Press Mouse Button to Start

MAT 5810

Major

293 Kelvin Cross Sections

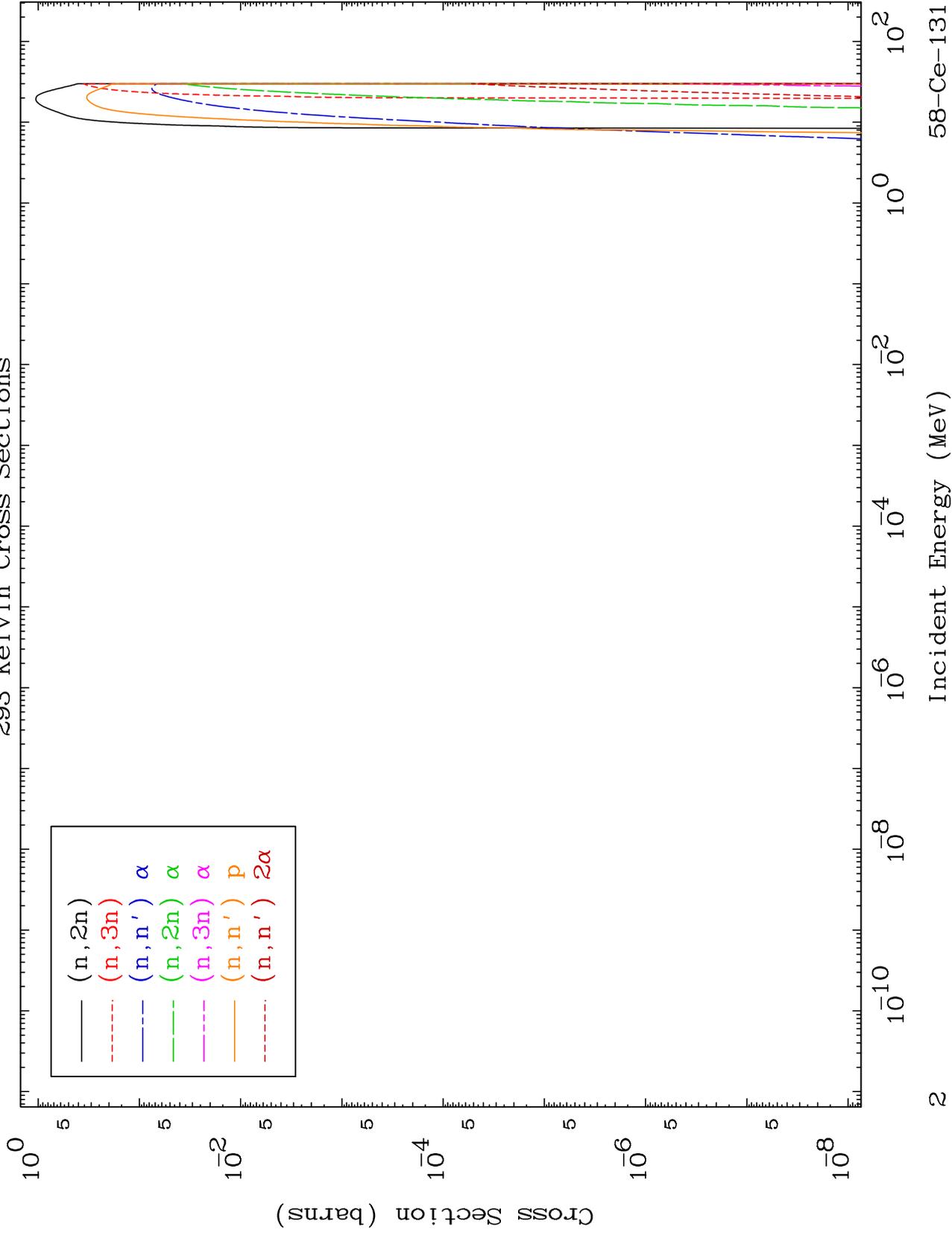
58-Ce-131



MAT 5810

Neutron Production
293 Kelvin Cross Sections

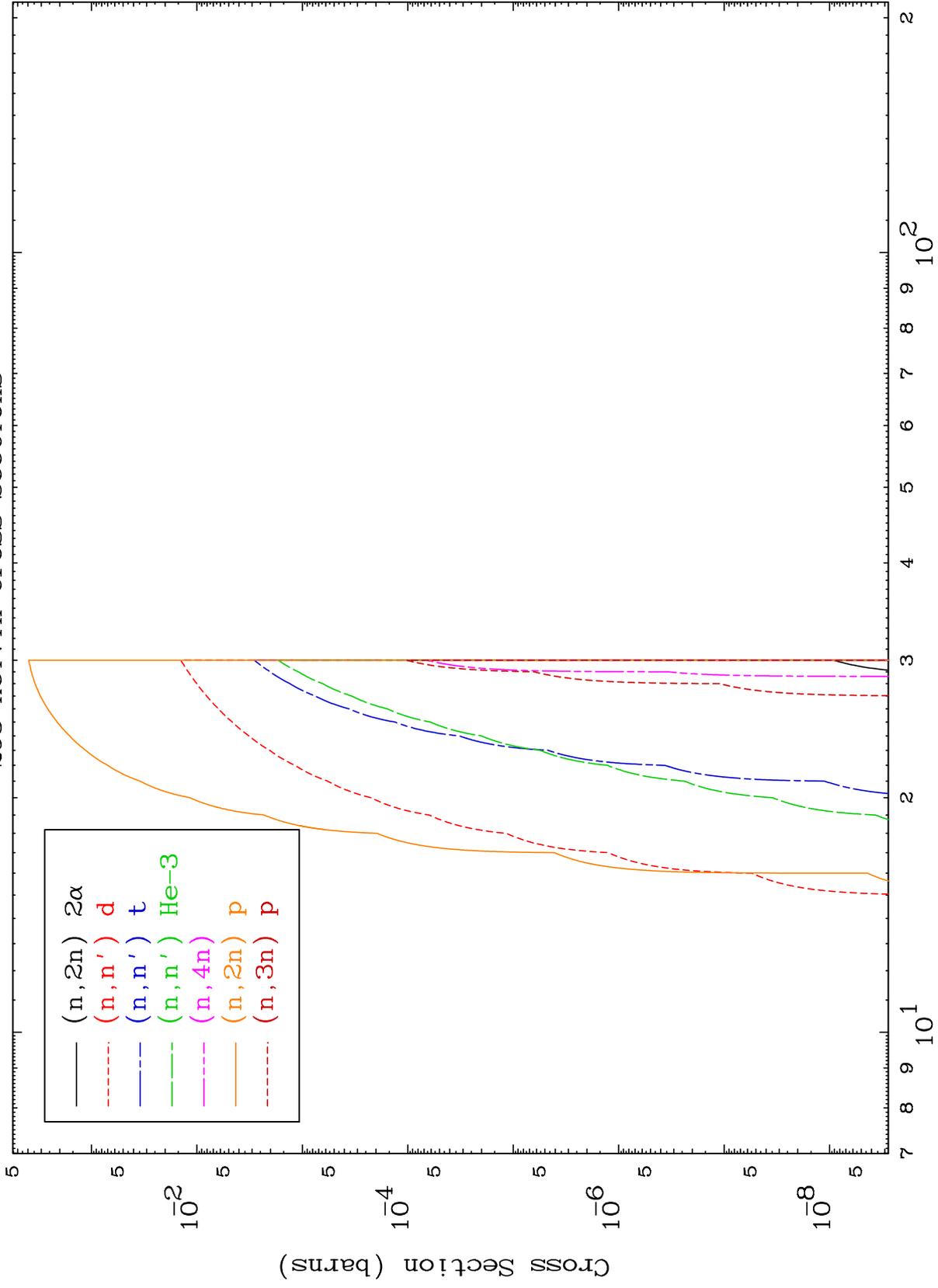
58-Ce-131



MAT 5810

Neutron Production
293 Kelvin Cross Sections

58-Ce-131



3

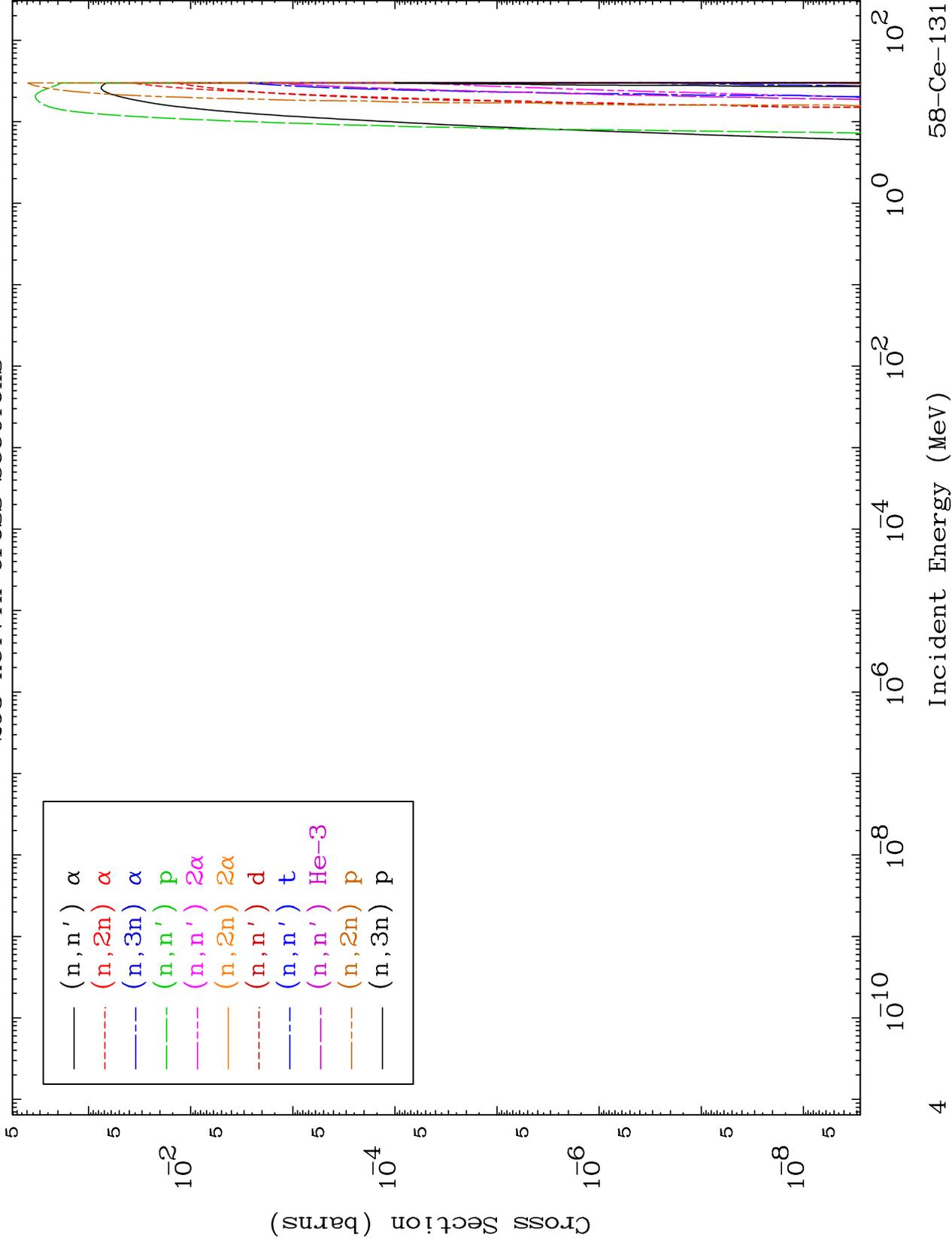
Incident Energy (MeV)

58-Ce-131

MAT 5810

Charged Particle
293 Kelvin Cross Sections

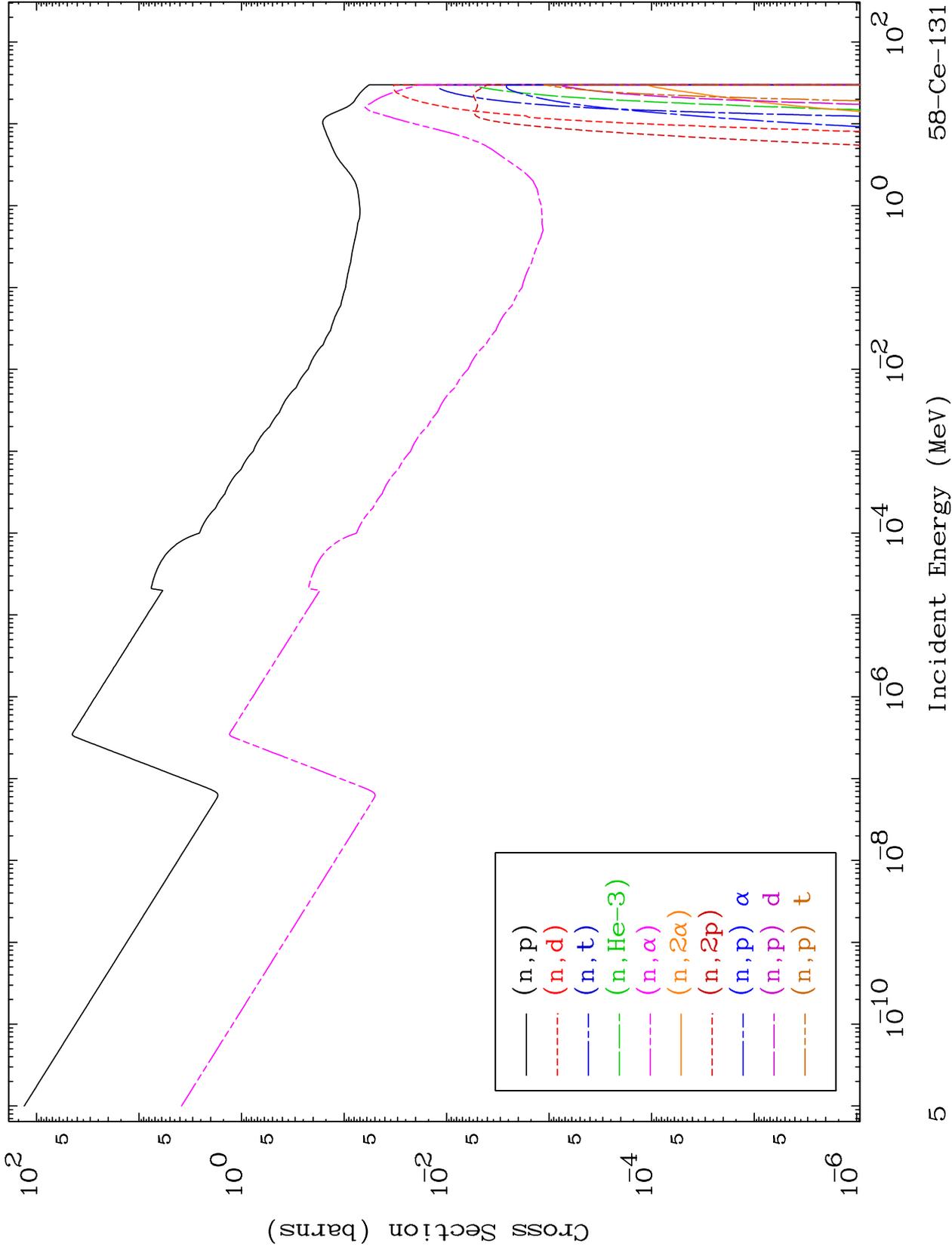
58-Ce-131

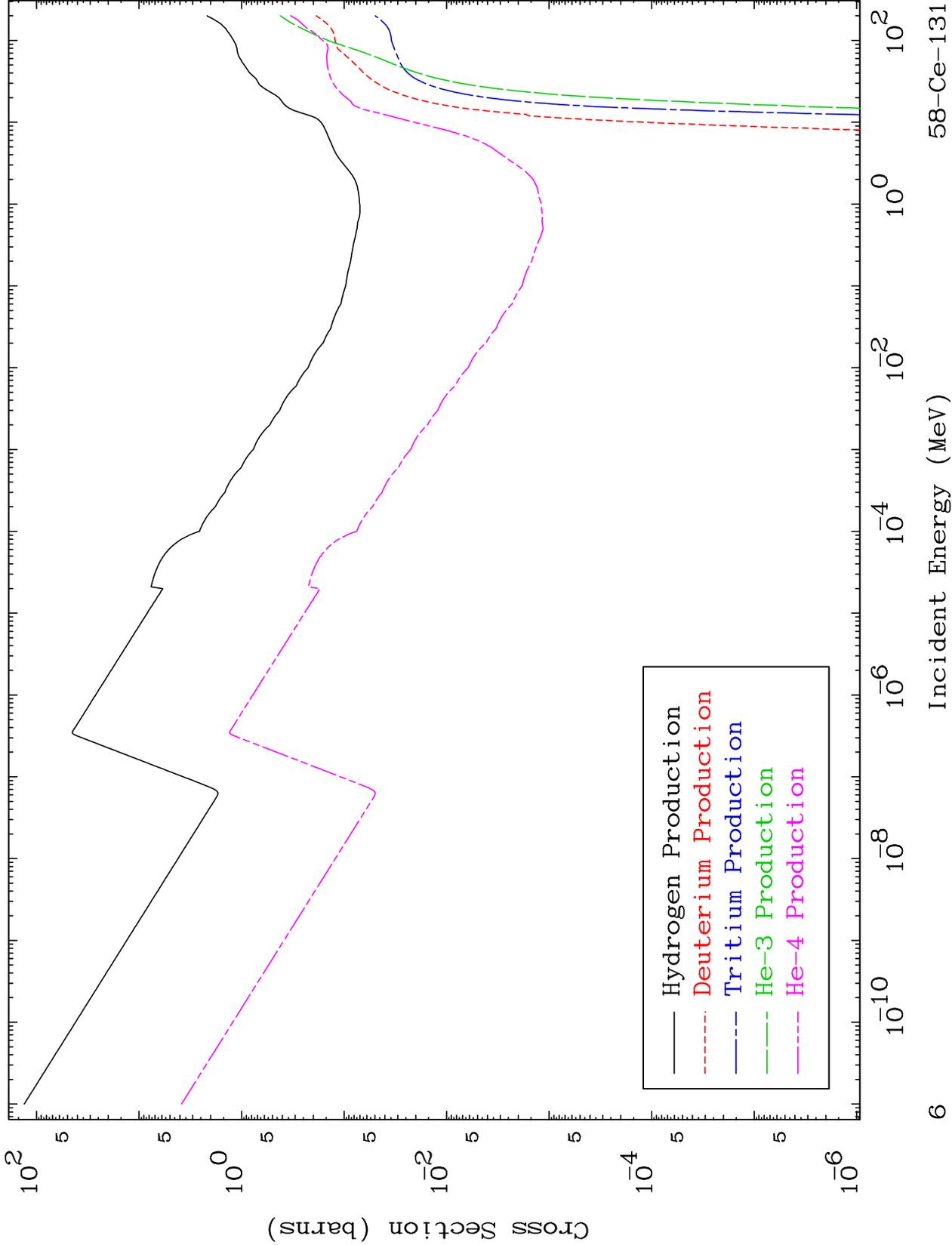


MAT 5810

Charged Particle
293 Kelvin Cross Sections

58-Ce-131

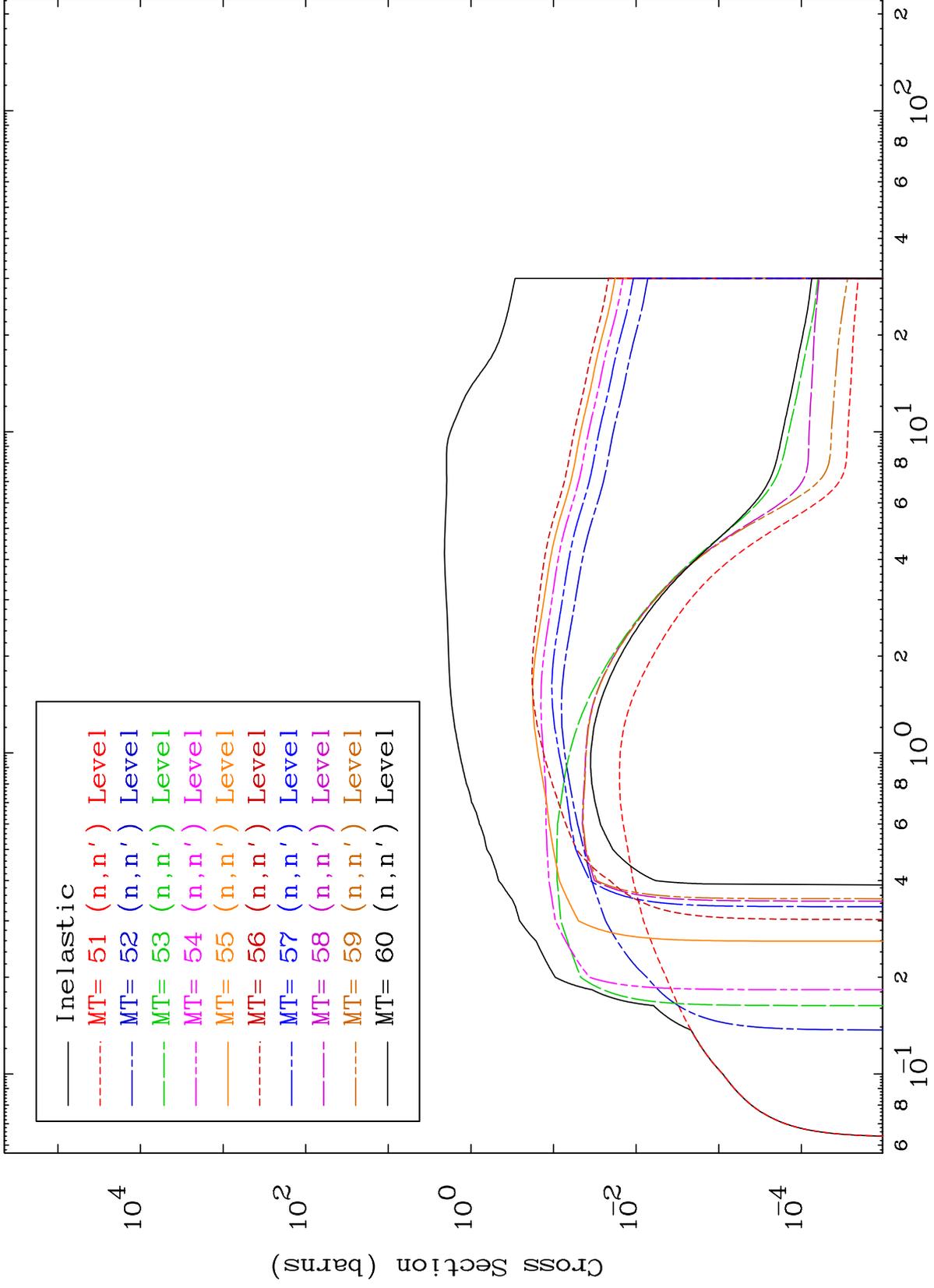




MAT 5810

(n,n') Level
293 Kelvin Cross Sections

58-Ce-131



7

Incident Energy (MeV)

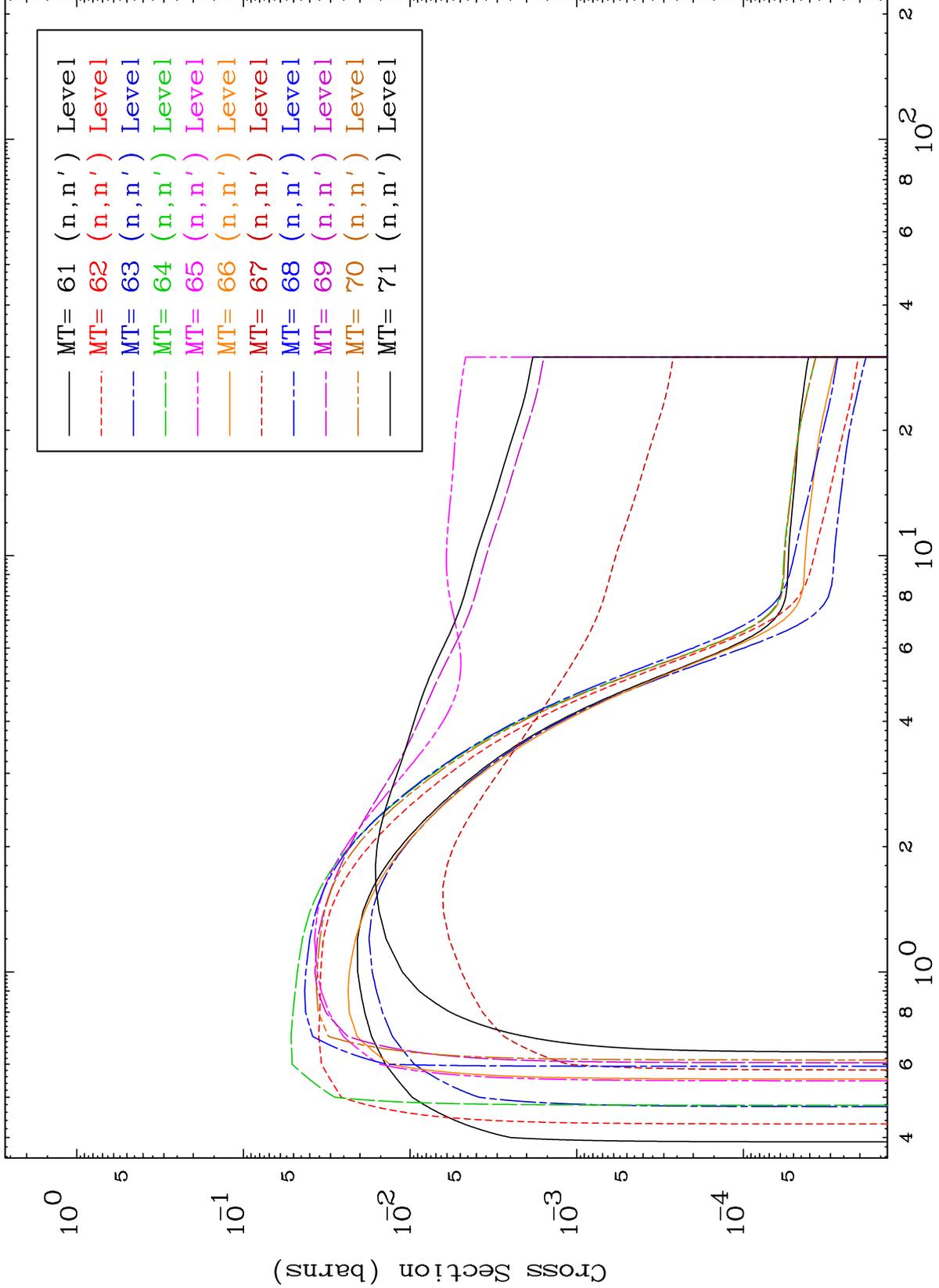
58-Ce-131

MAT 5810

(n,n') Level

293 Kelvin Cross Sections

58-Ce-131



8

Incident Energy (MeV)

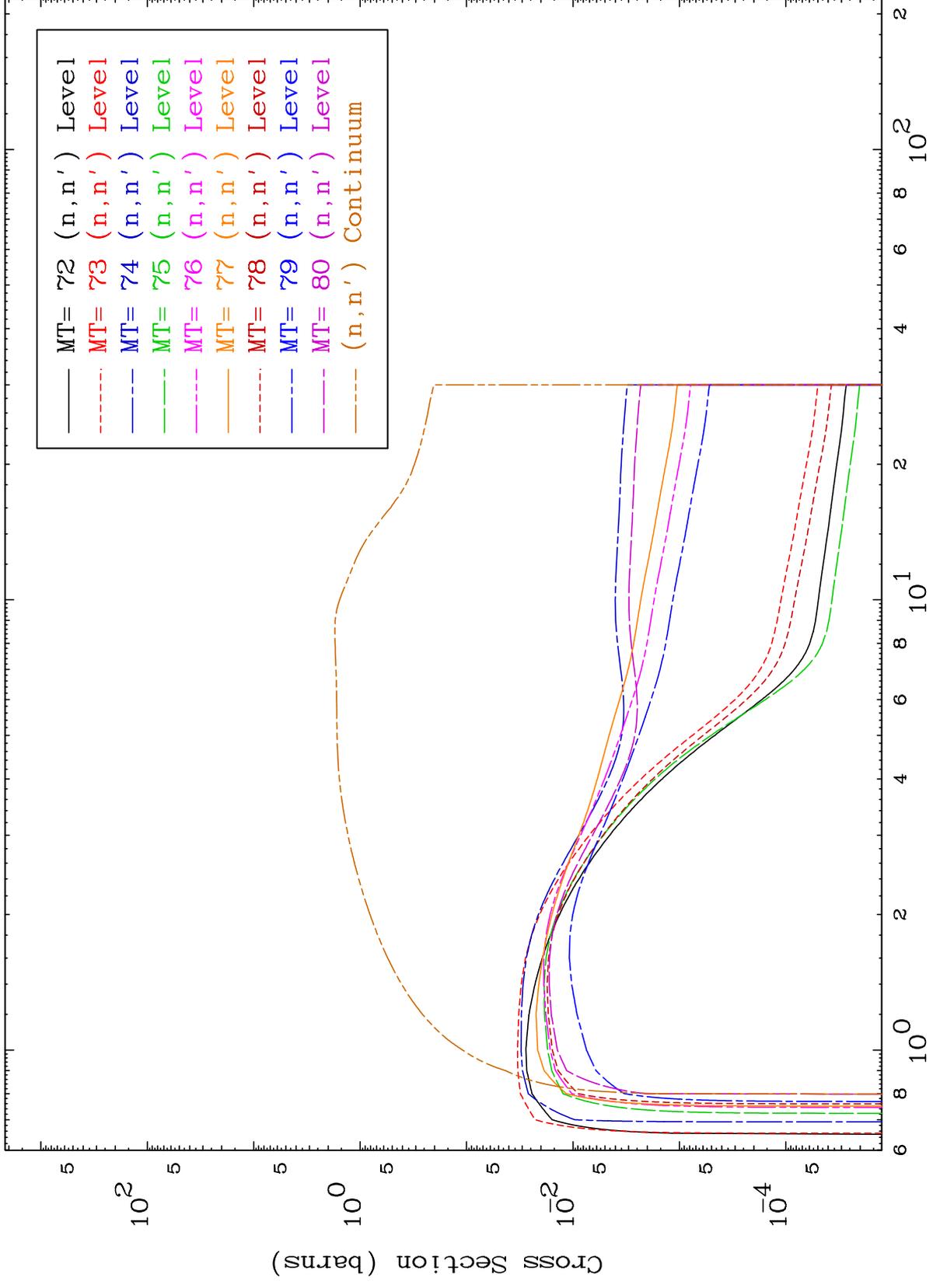
58-Ce-131

MAT 5810

(n,n') Level

58-Ce-131

293 Kelvin Cross Sections



9

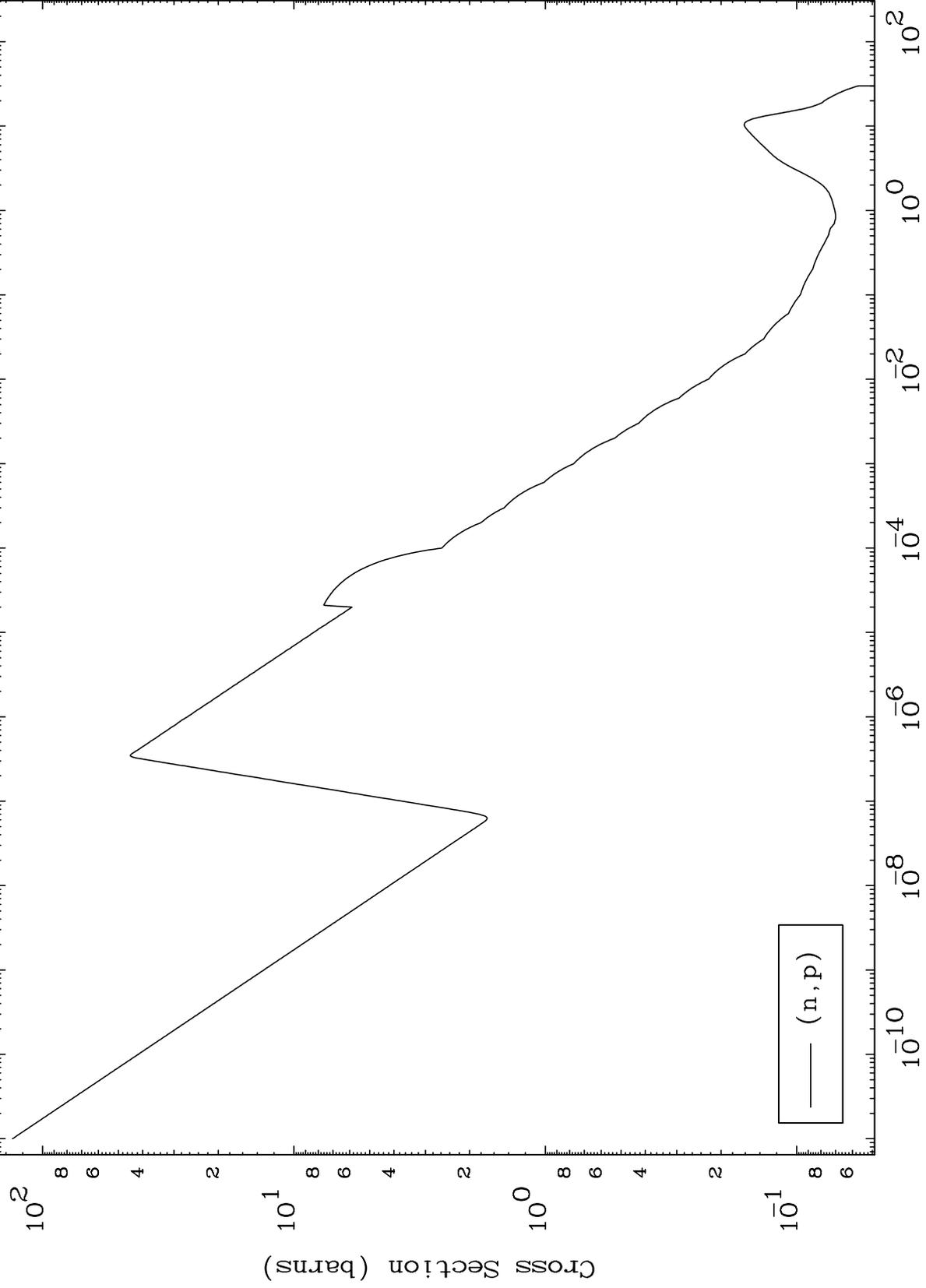
Incident Energy (MeV)

58-Ce-131

MAT 5810

(n,p) Levels
293 Kelvin Cross Sections

58-Ce-131



10

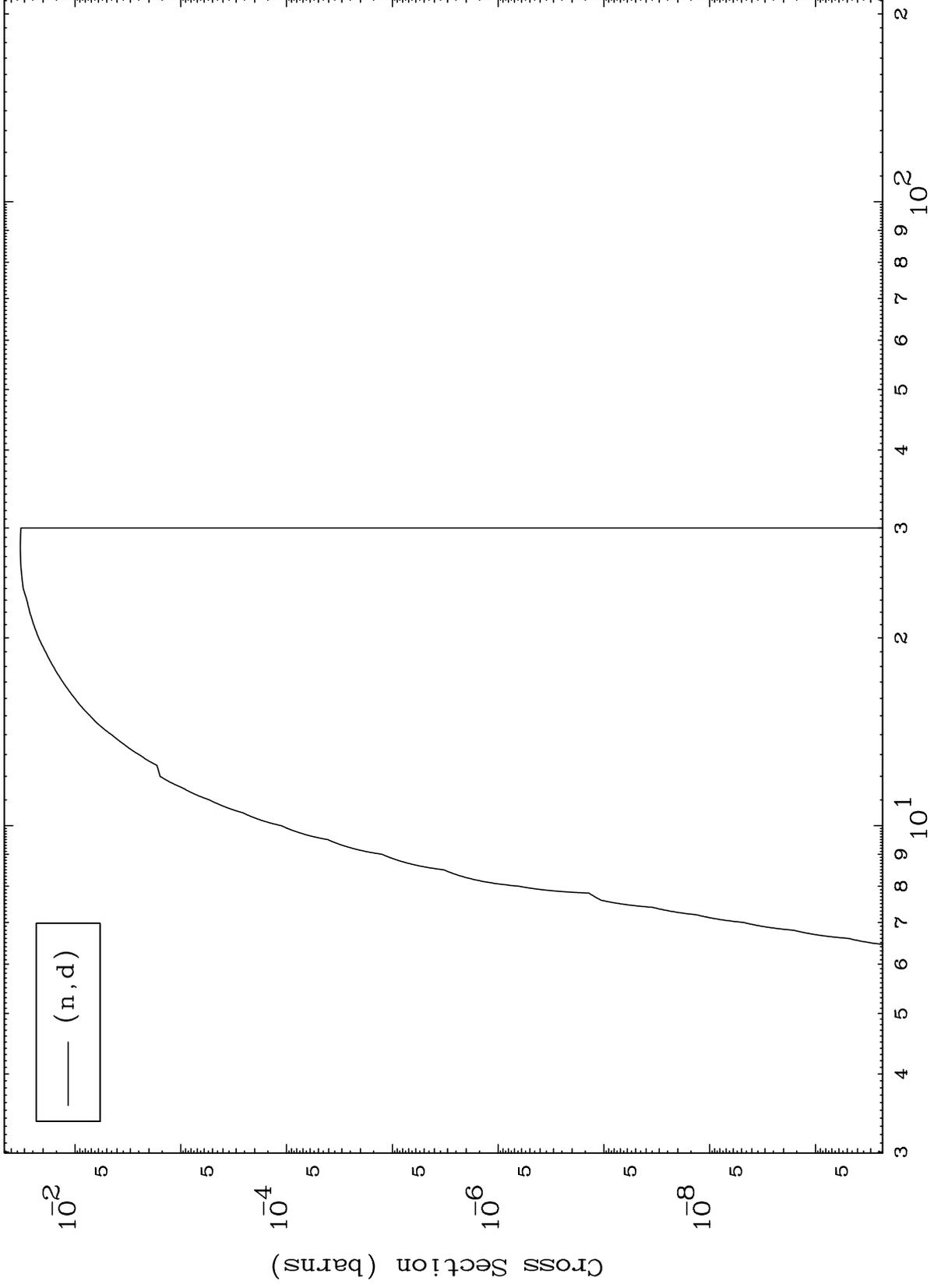
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58-Ce-131

MAT 5810

(n,d) Levels
293 Kelvin Cross Sections

58-Ce-131



11

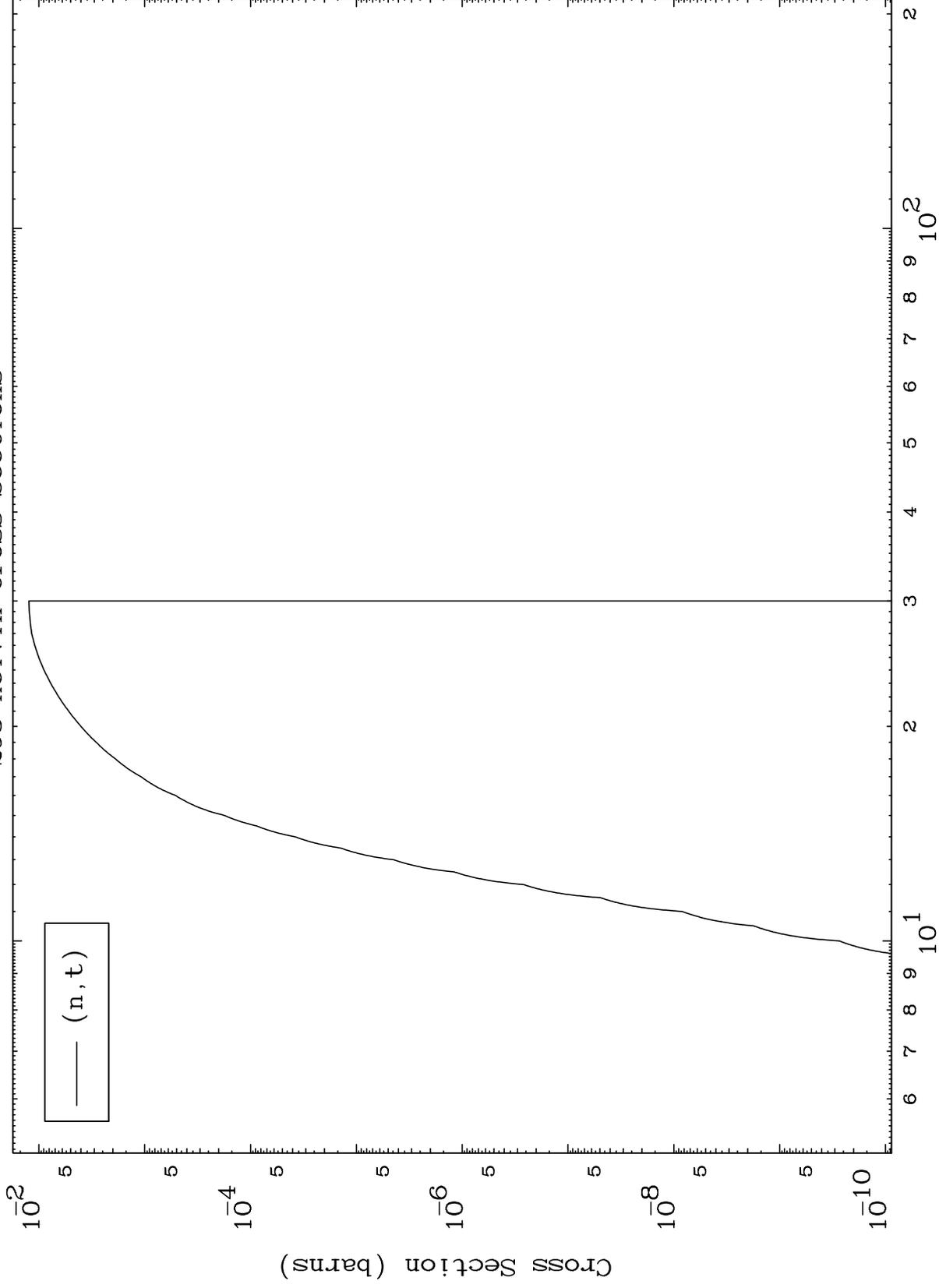
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58-Ce-131

MAT 5810

(n,t) Levels
293 Kelvin Cross Sections

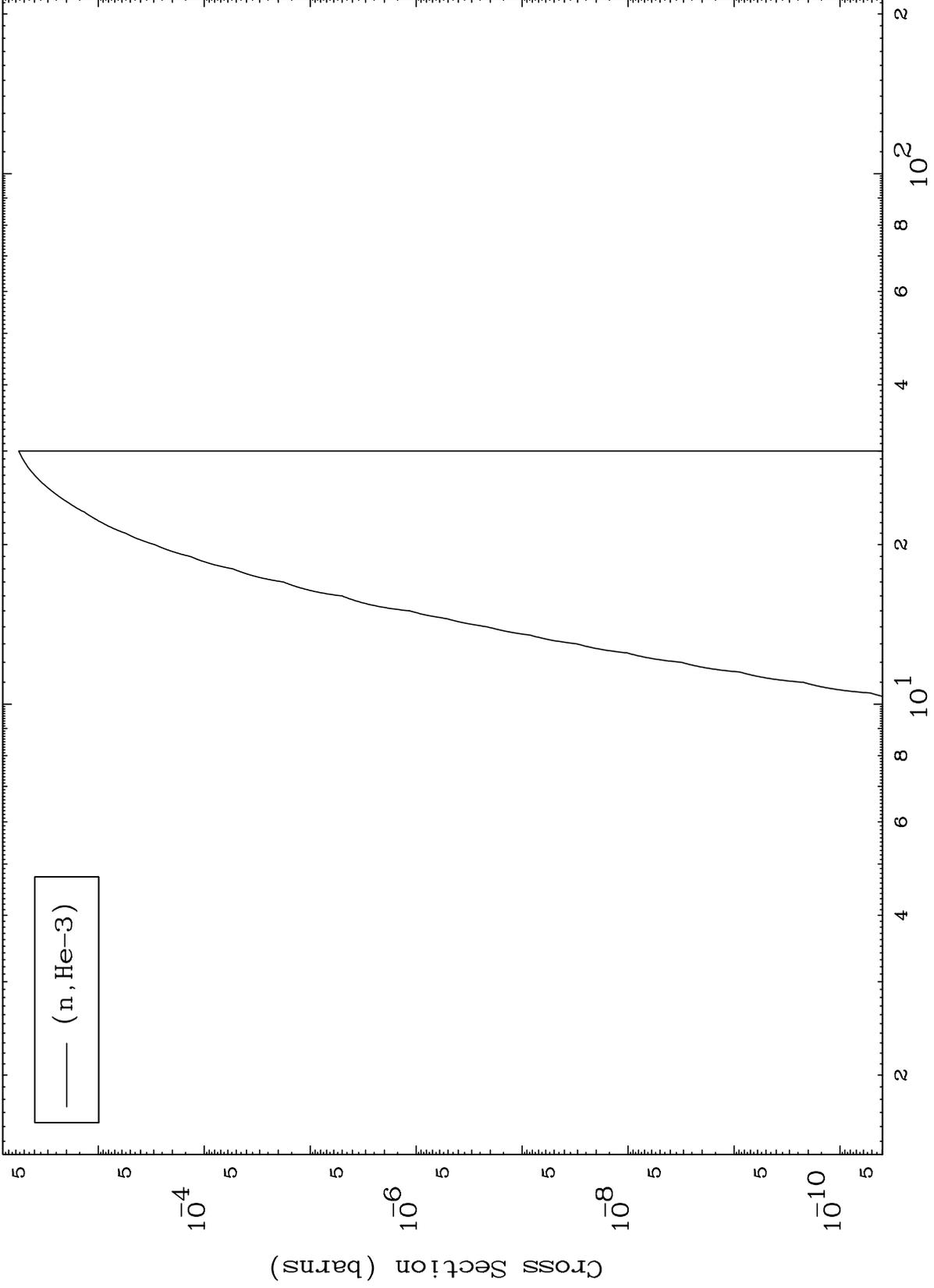
58-Ce-131



MAT 5810

(n,He3) Levels
293 Kelvin Cross Sections

58-Ce-131



13

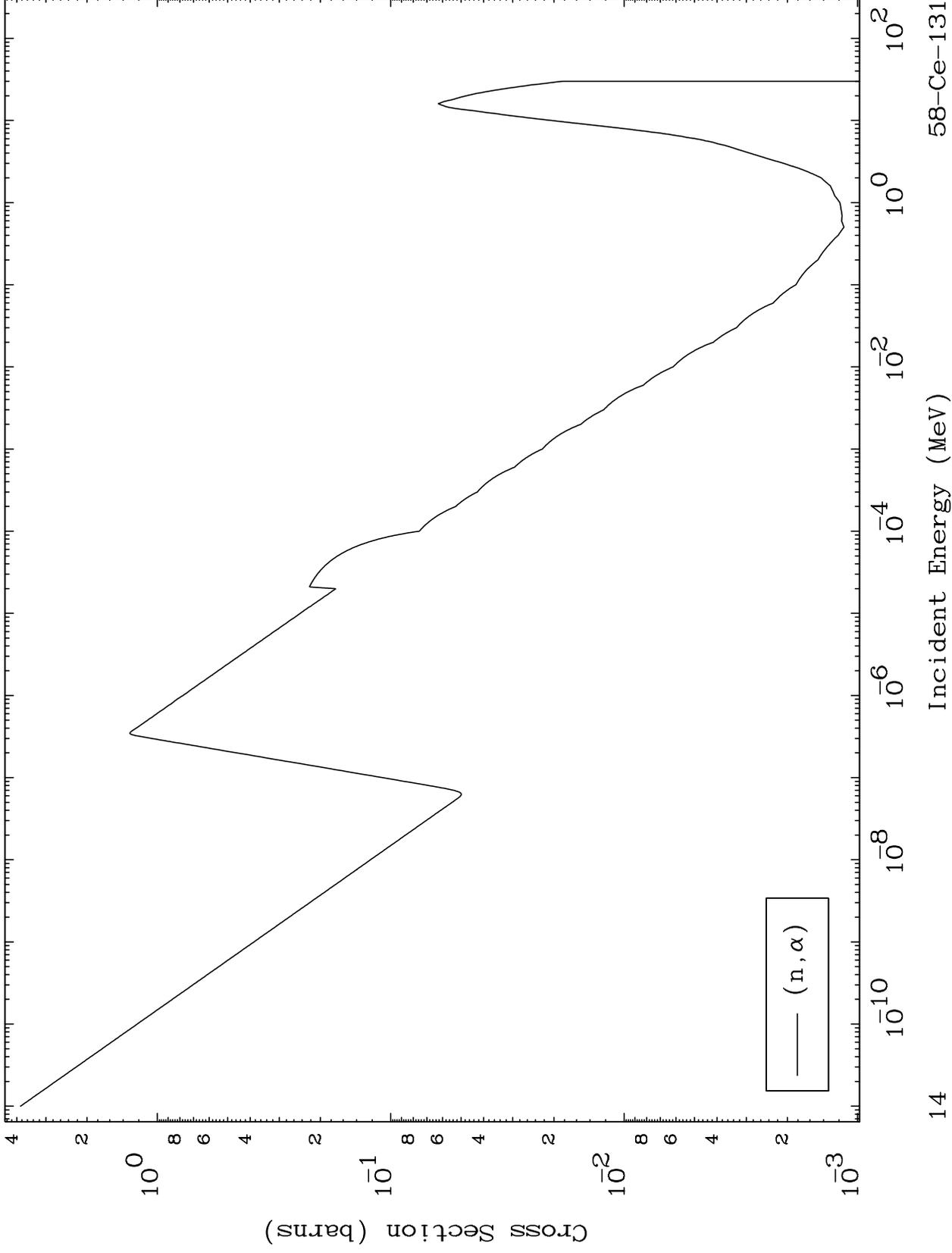
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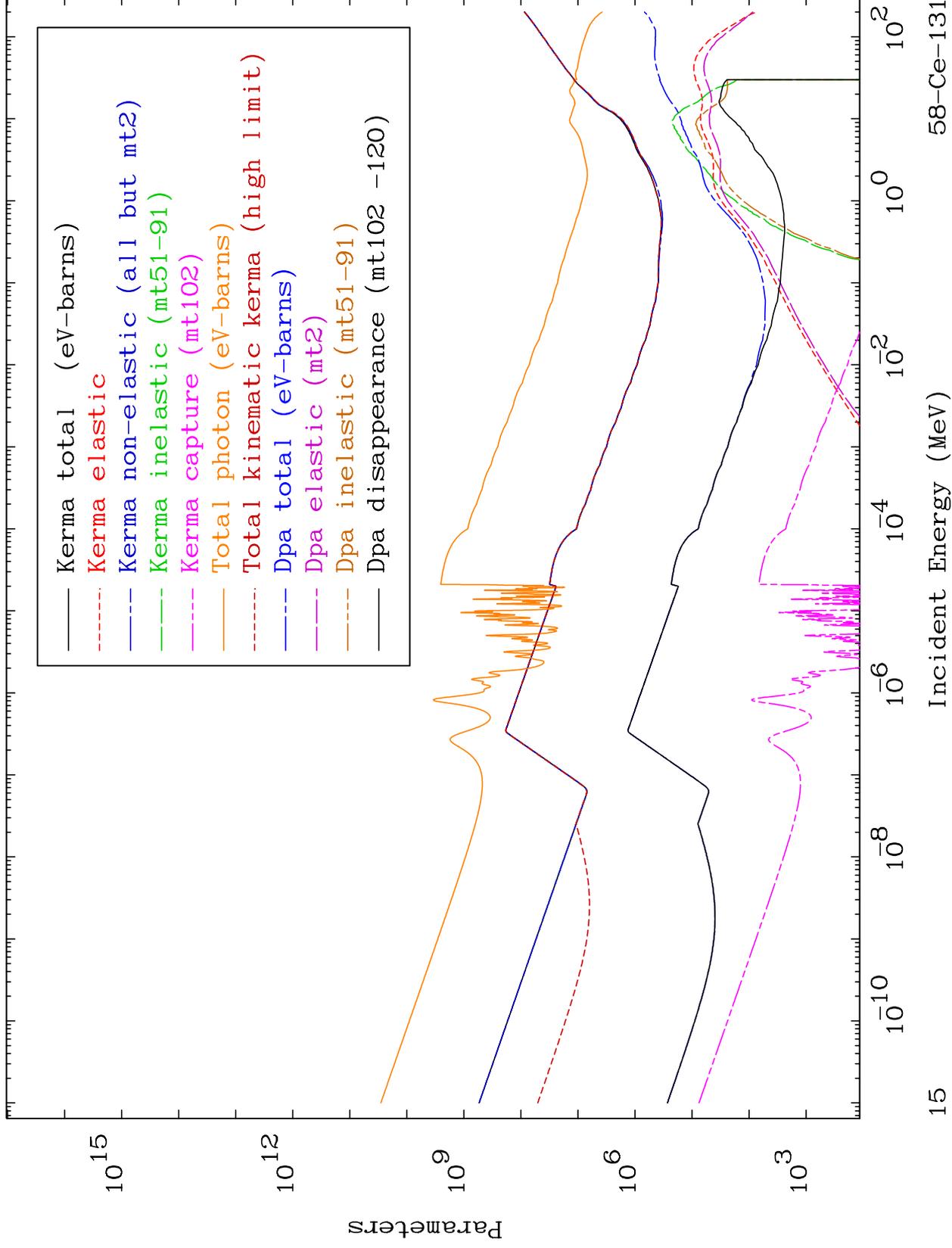
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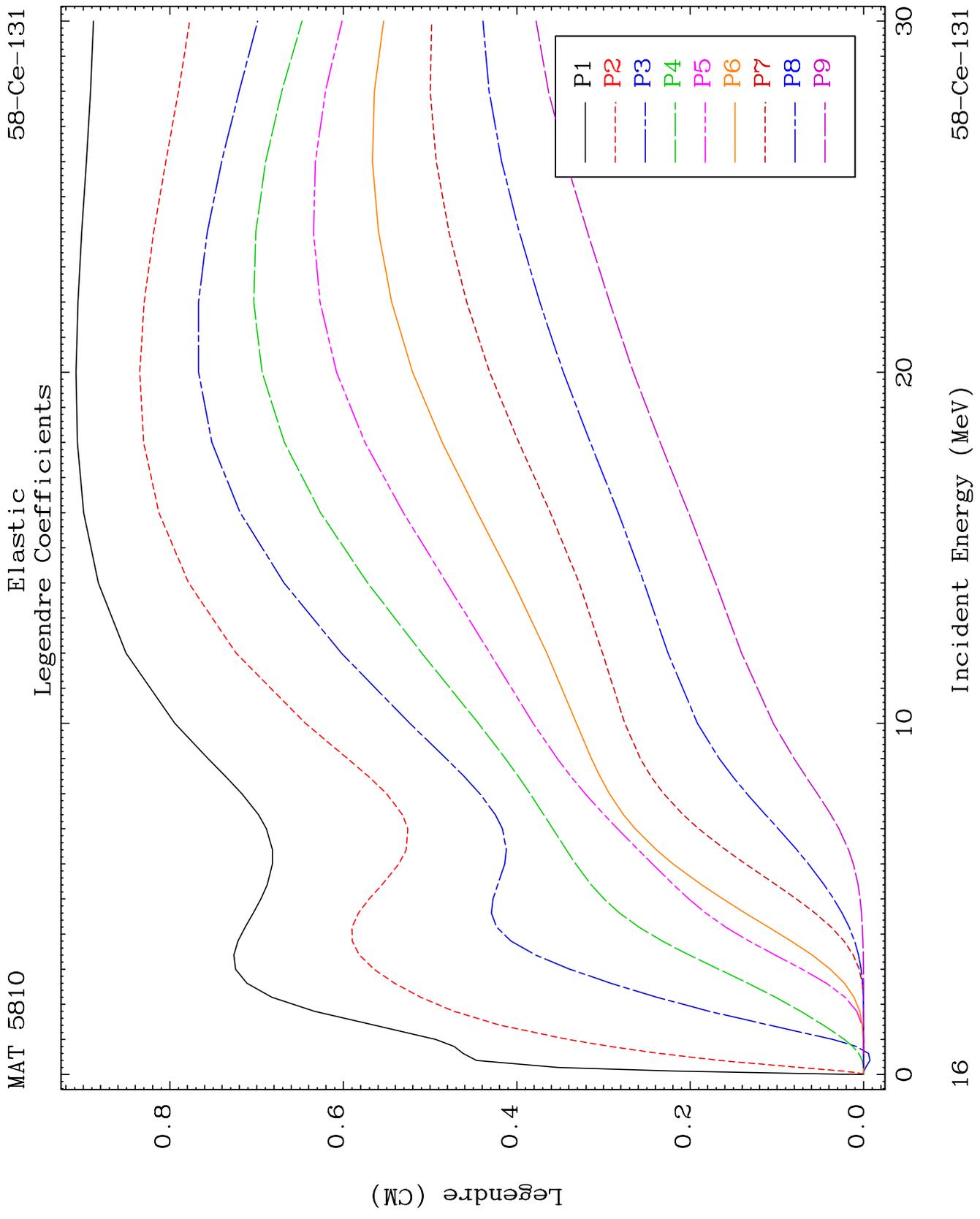
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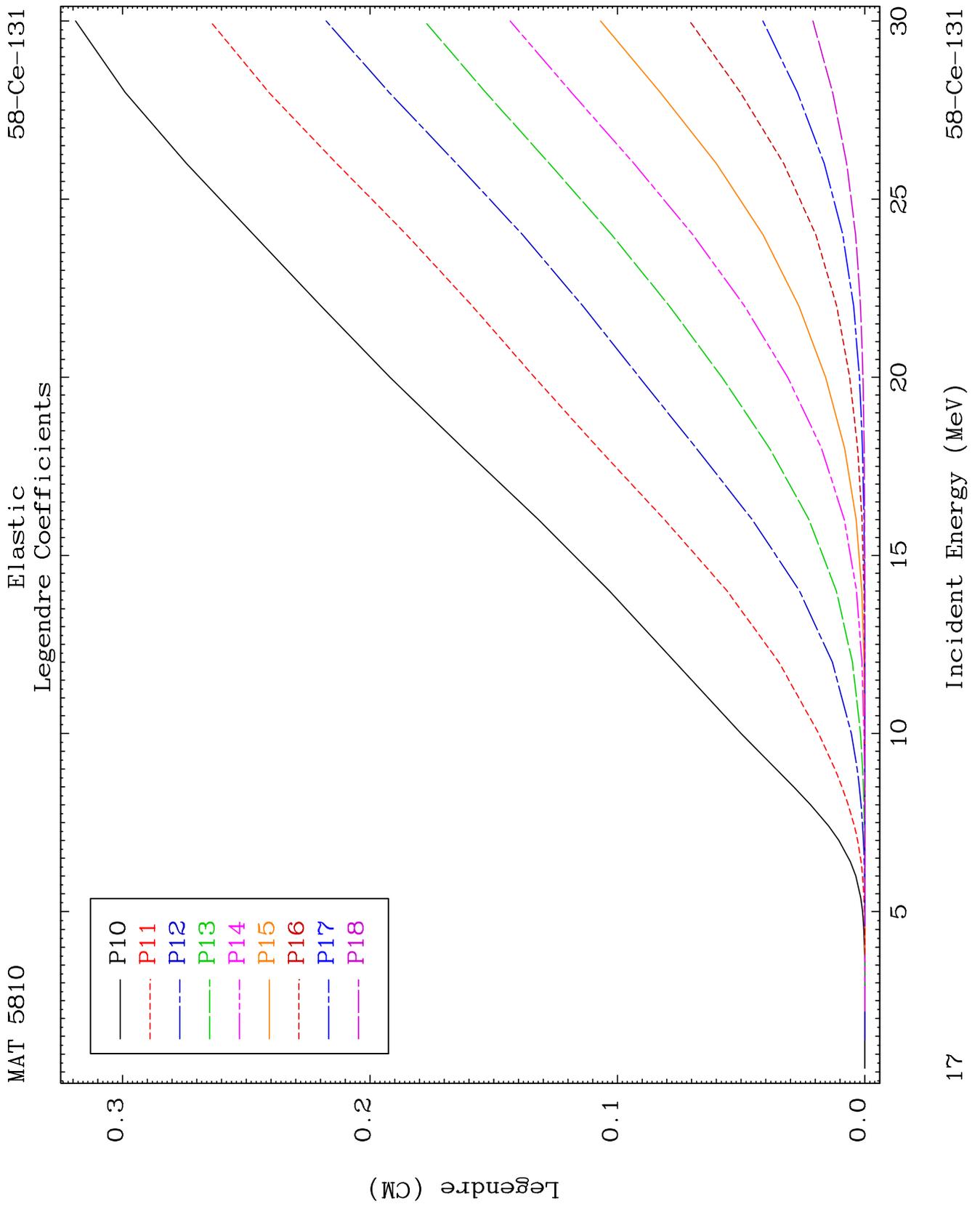
(n,α) Levels
293 Kelvin Cross Sections

58-Ce-131





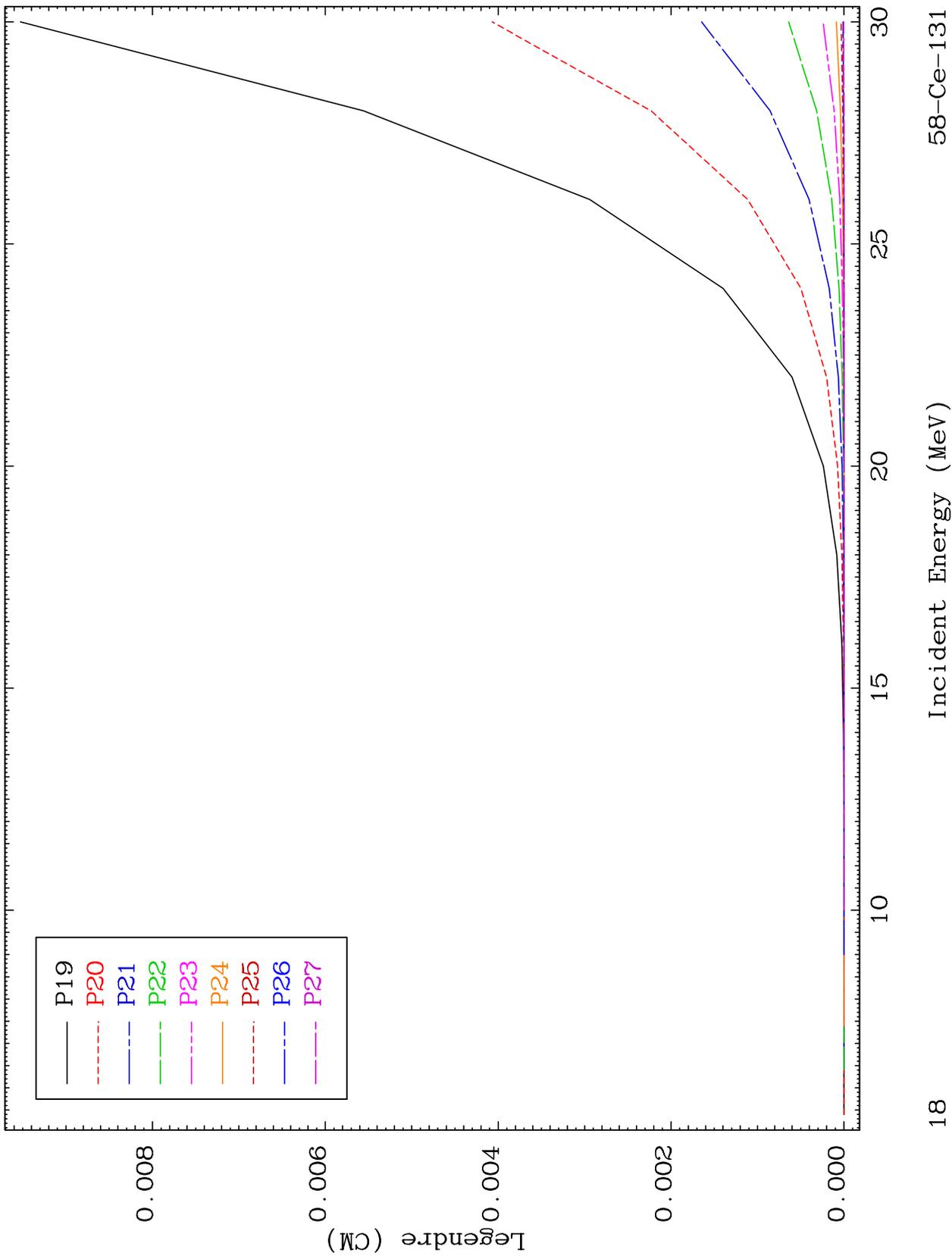




MAT 5810

Elastic Legendre Coefficients

58-Ce-131



18

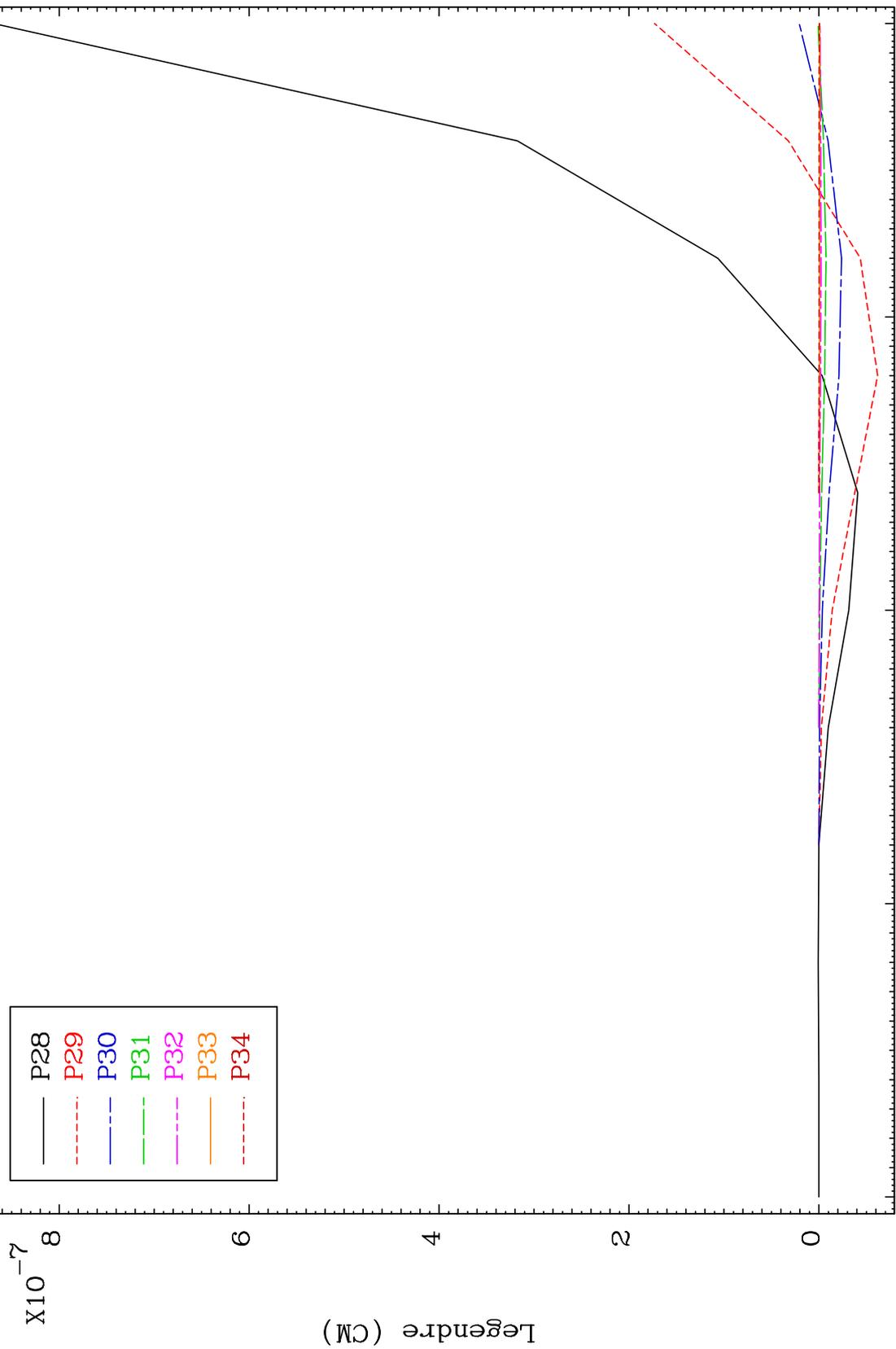
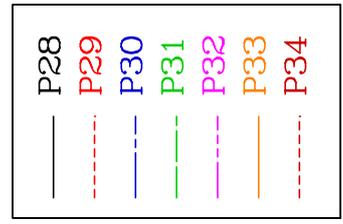
Incident Energy (MeV)

58-Ce-131

MAT 5810

Elastic Legendre Coefficients

58-Ce-131



19

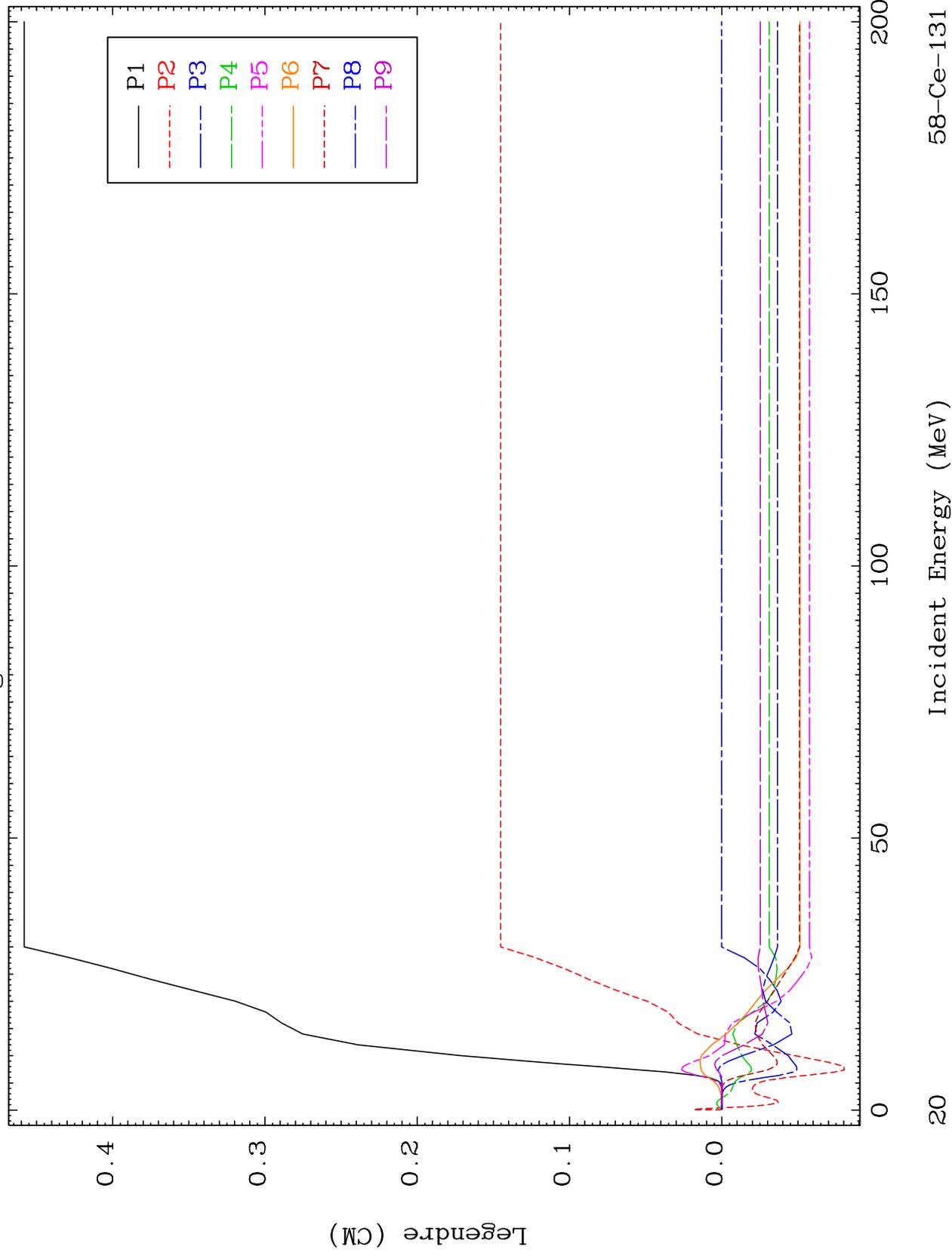
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



58-Ce-131

Incident Energy (MeV)

0

50

100

150

200

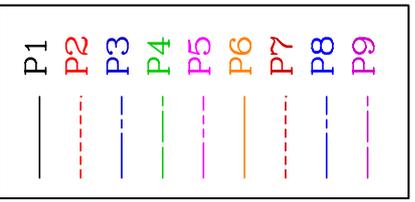
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0.3

0.2

0.1

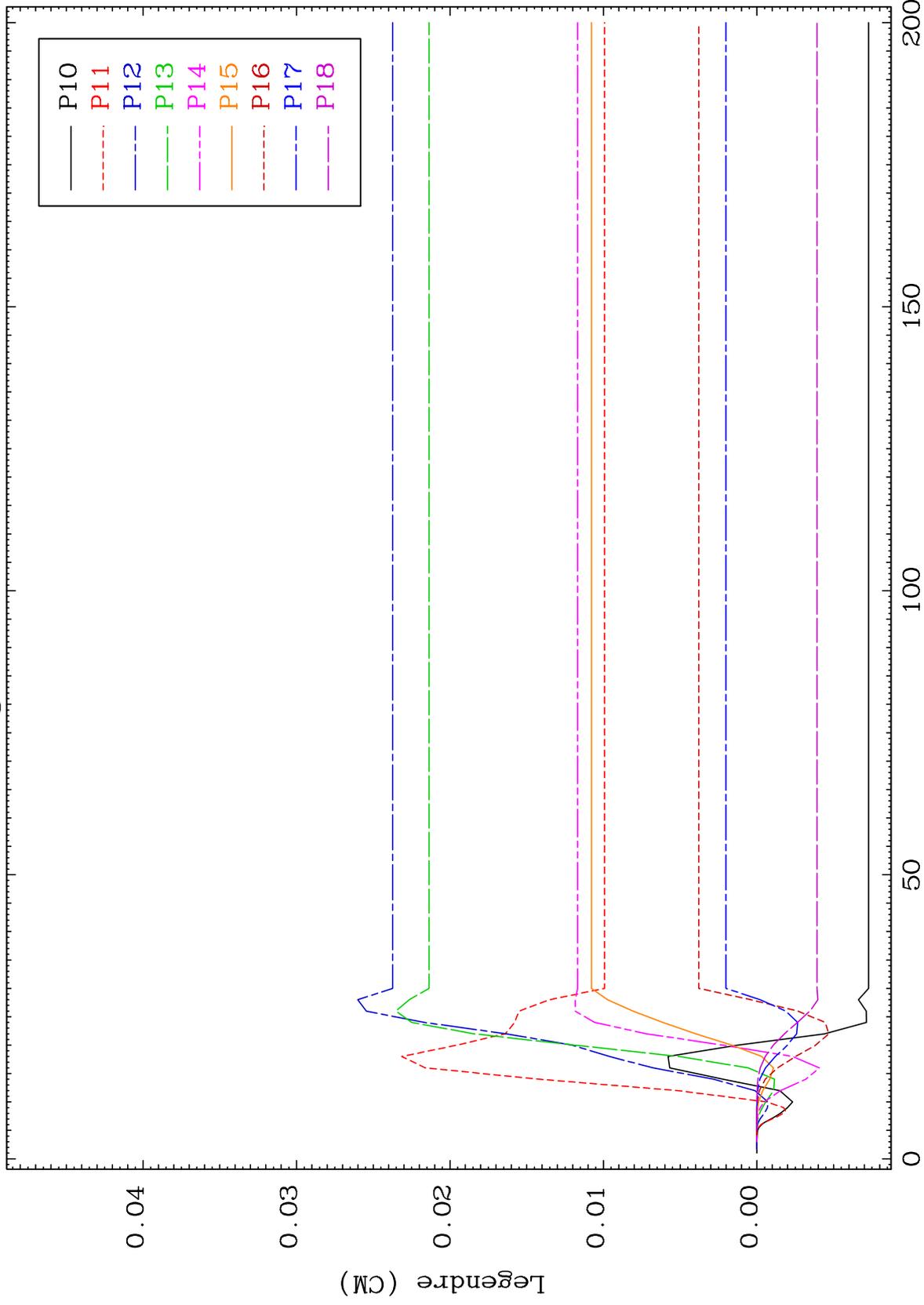
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MAT 5810

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

58-Ce-131



21

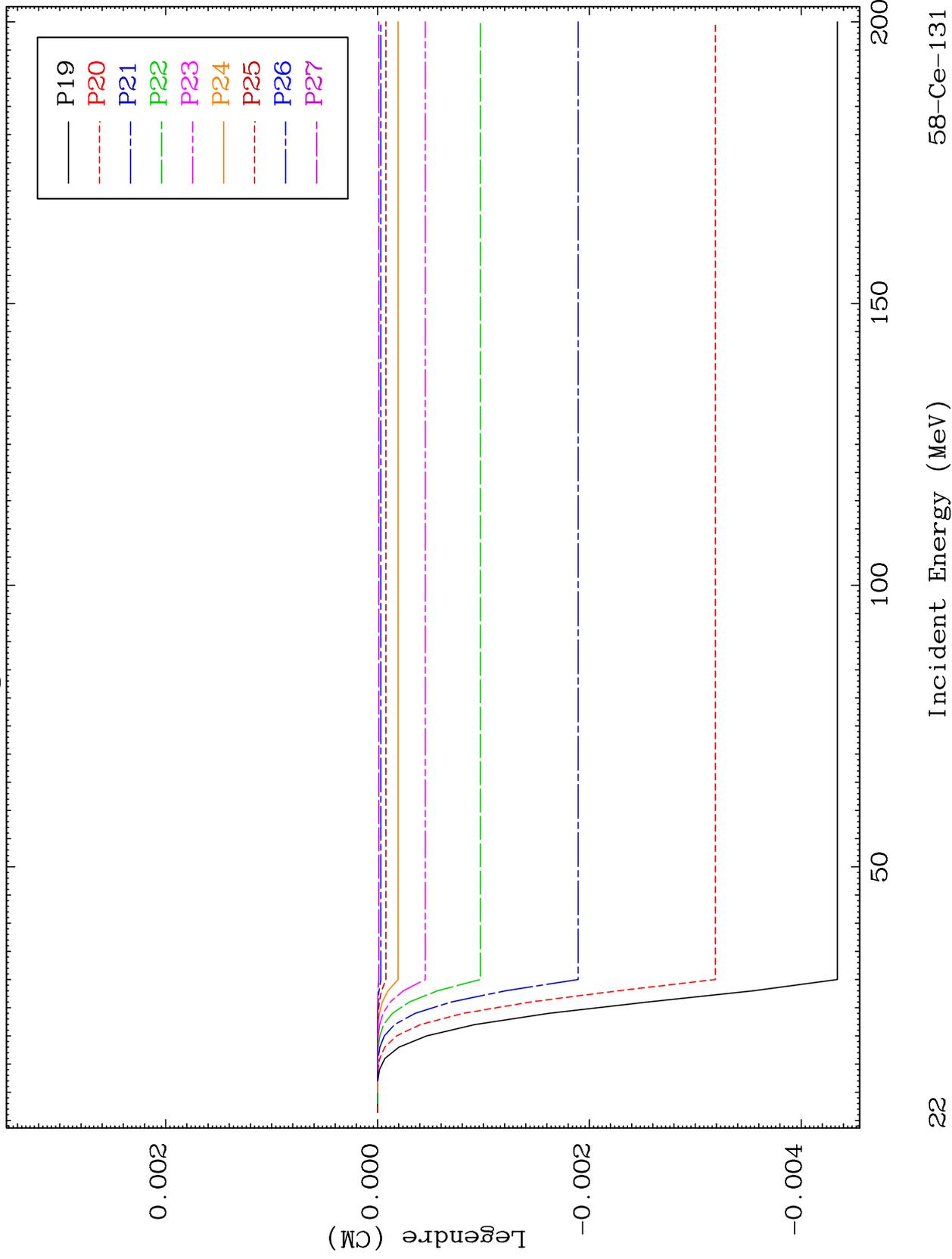
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

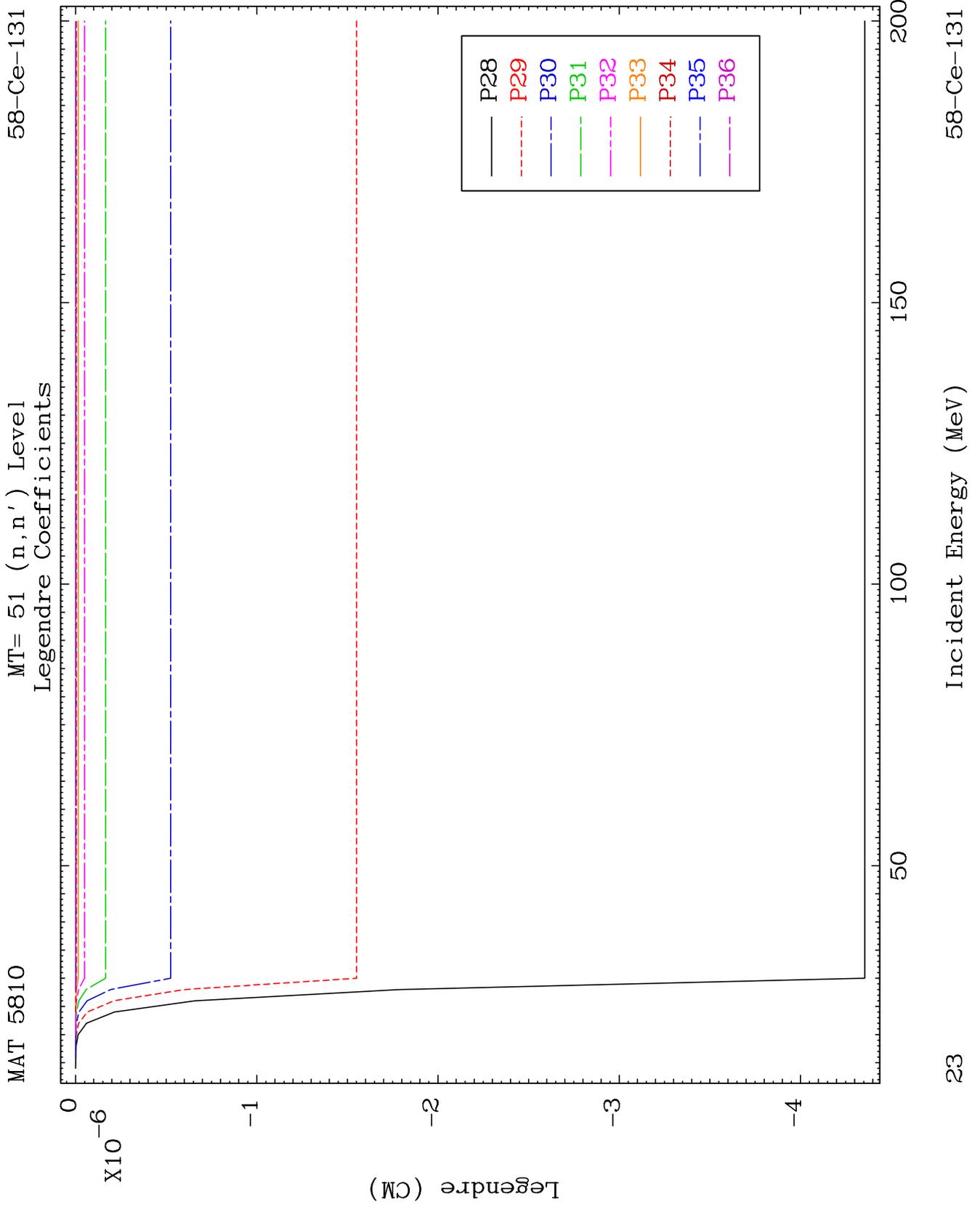
58-Ce-131



22

Incident Energy (MeV)

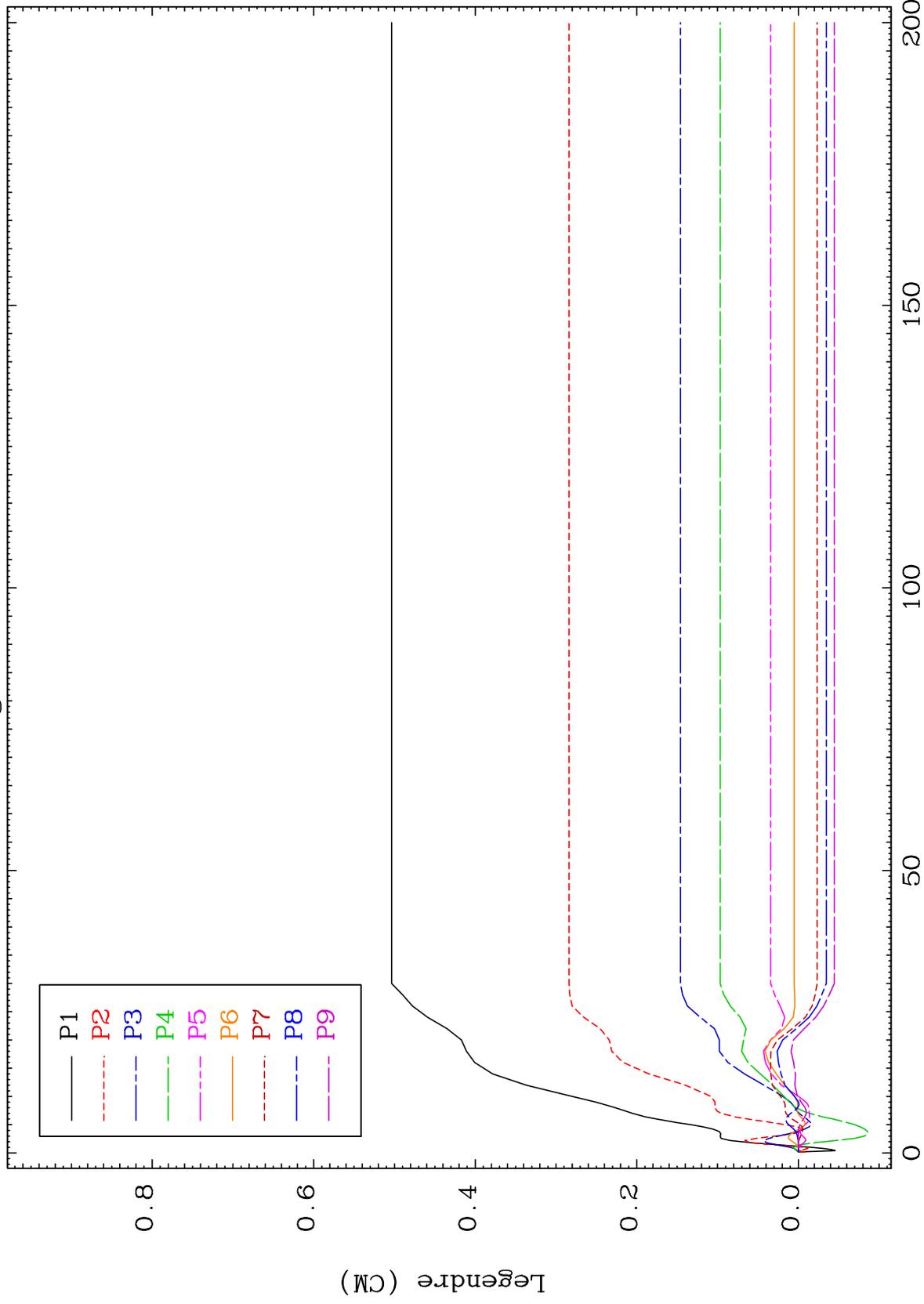
58-Ce-131



MAT 5810

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

58-Ce-131



24

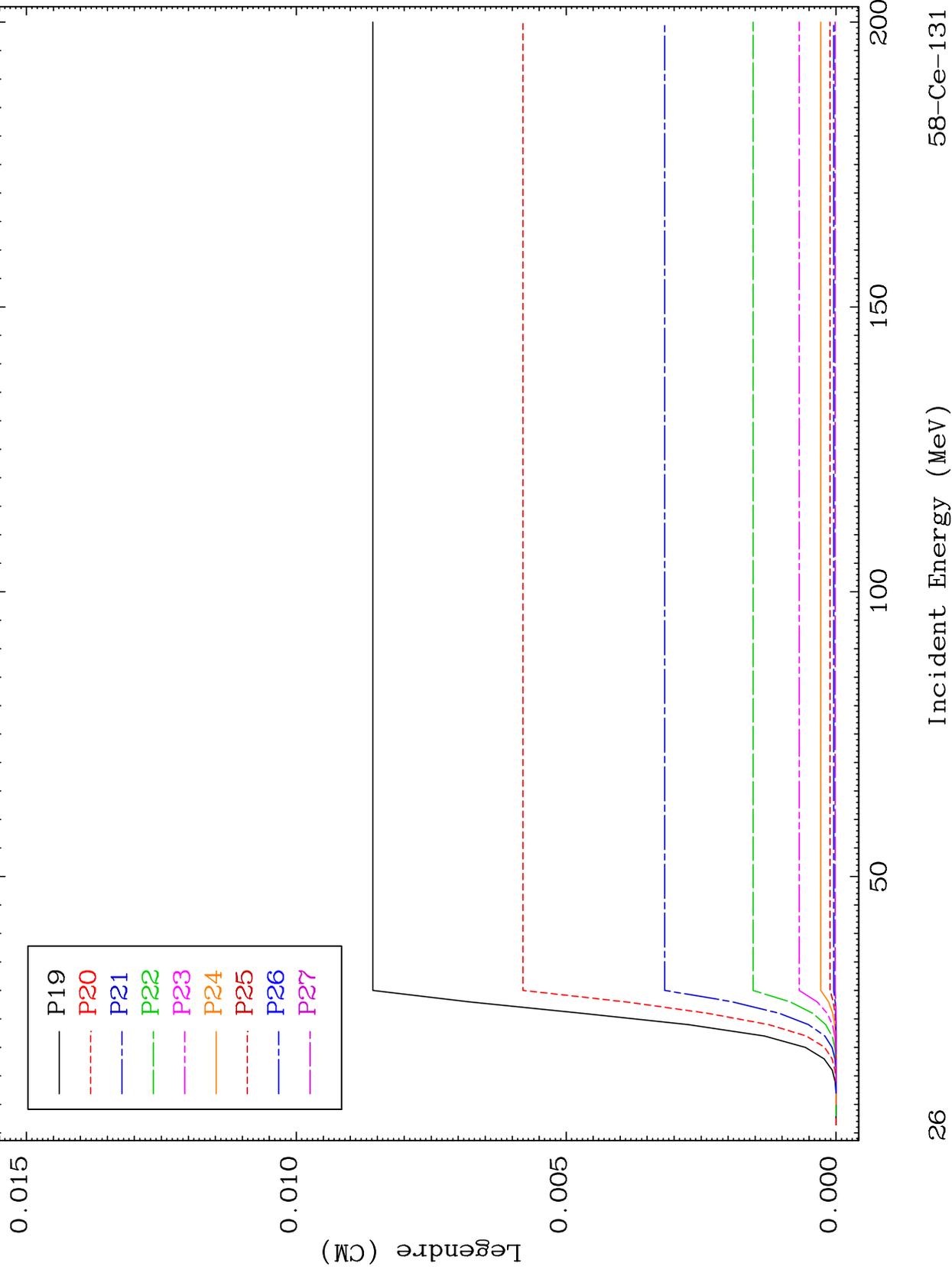
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

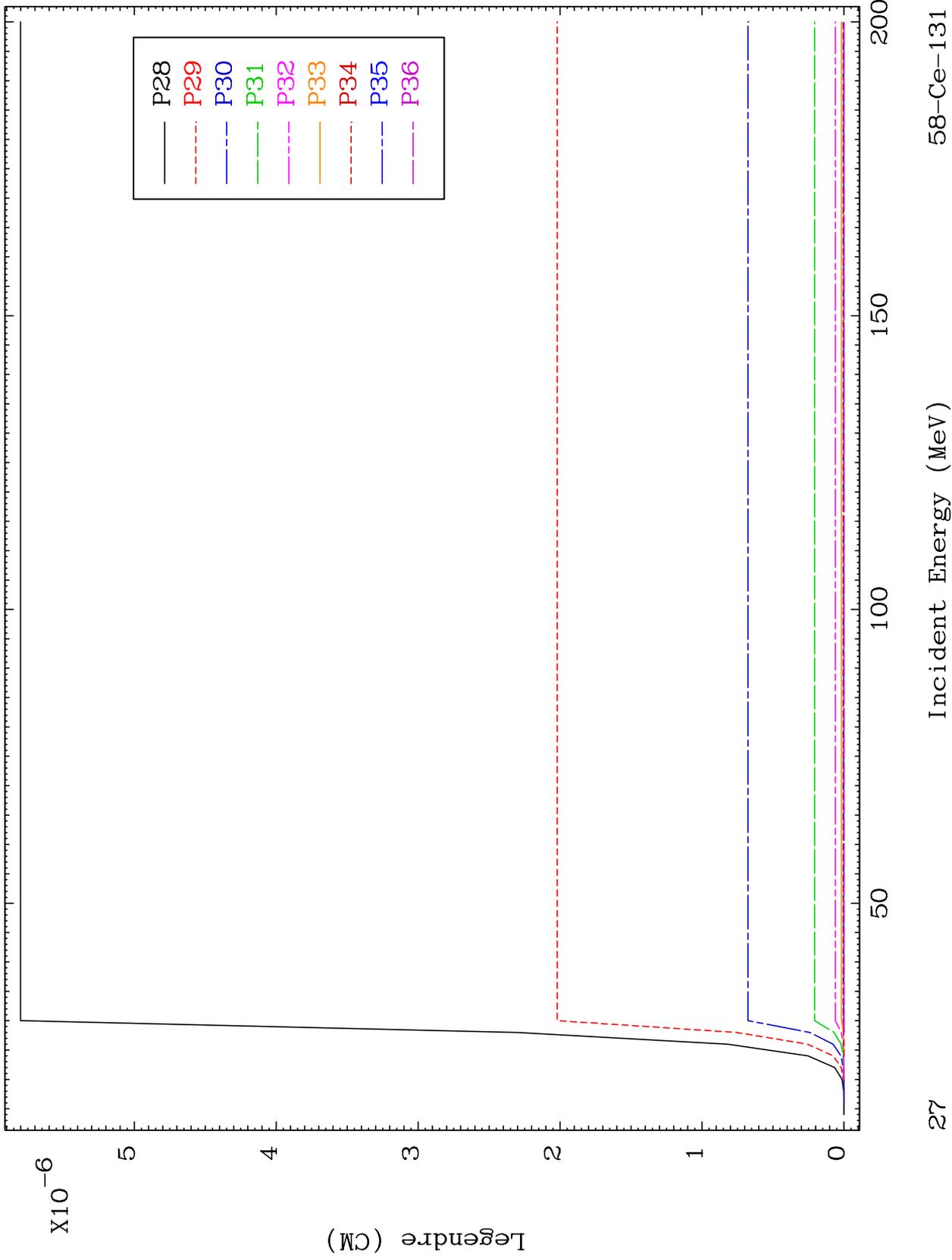
58-Ce-131



MAT 5810

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

58-Ce-131



27

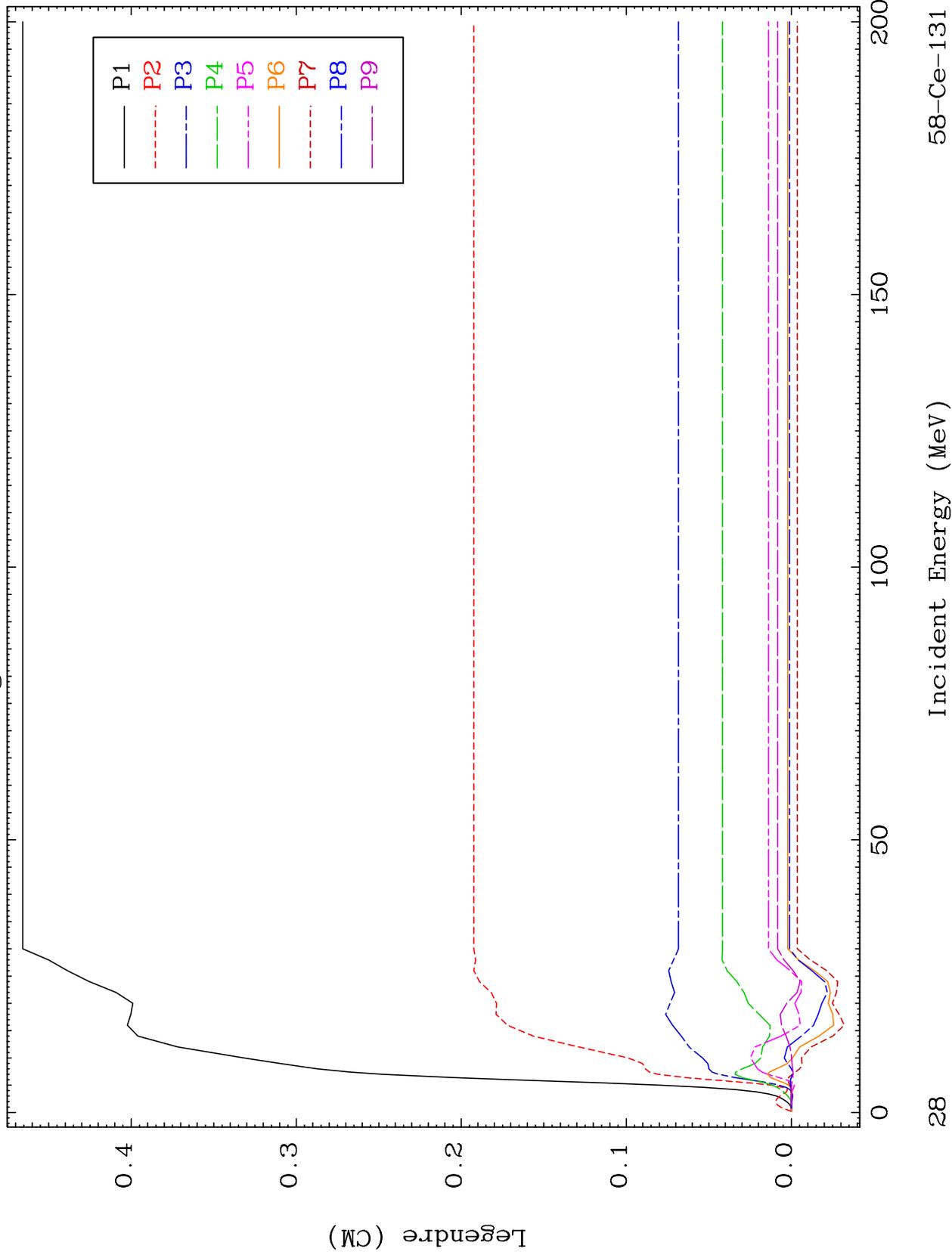
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



58-Ce-131

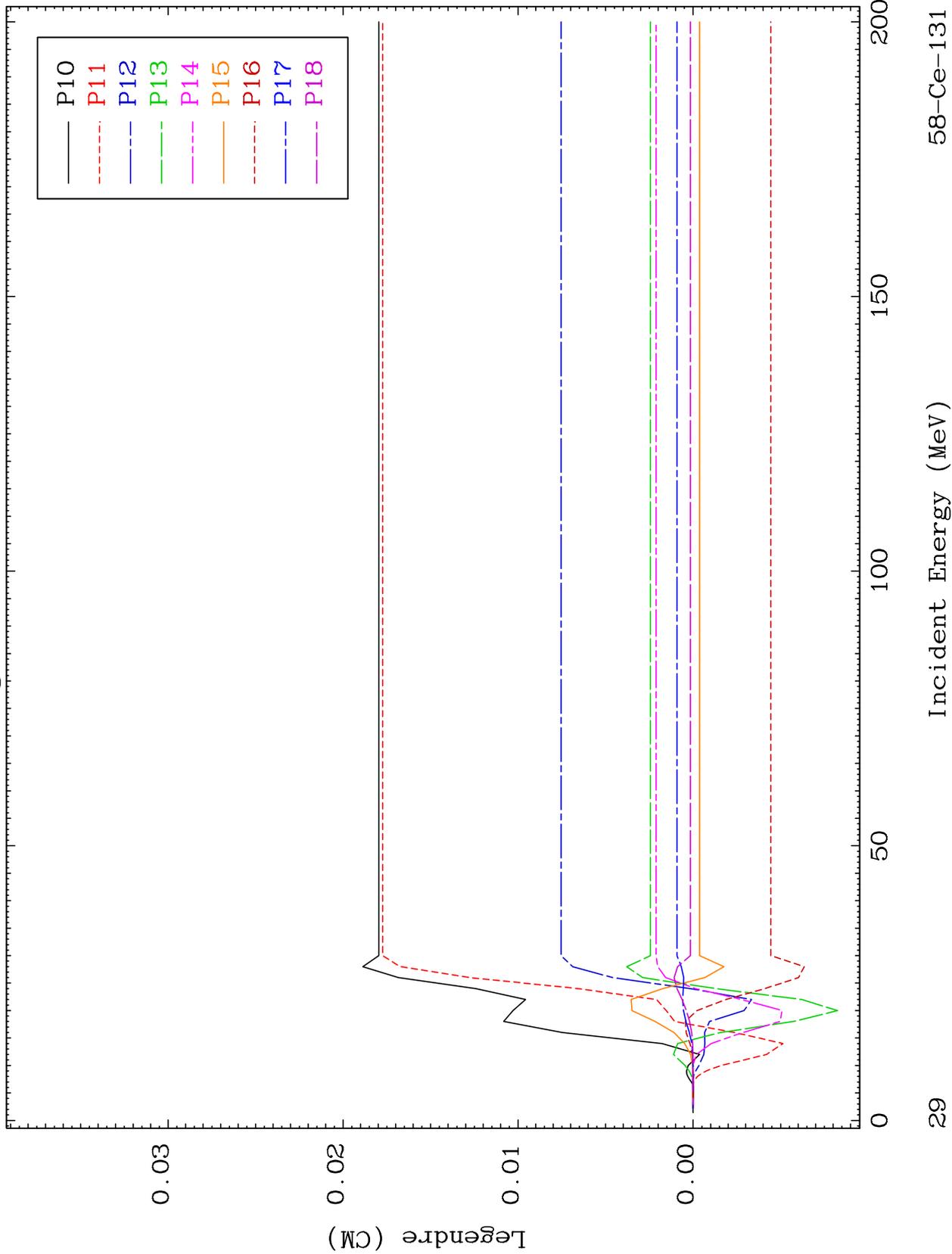
Incident Energy (MeV)

28

MAT 5810

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

58-Ce-131



58-Ce-131

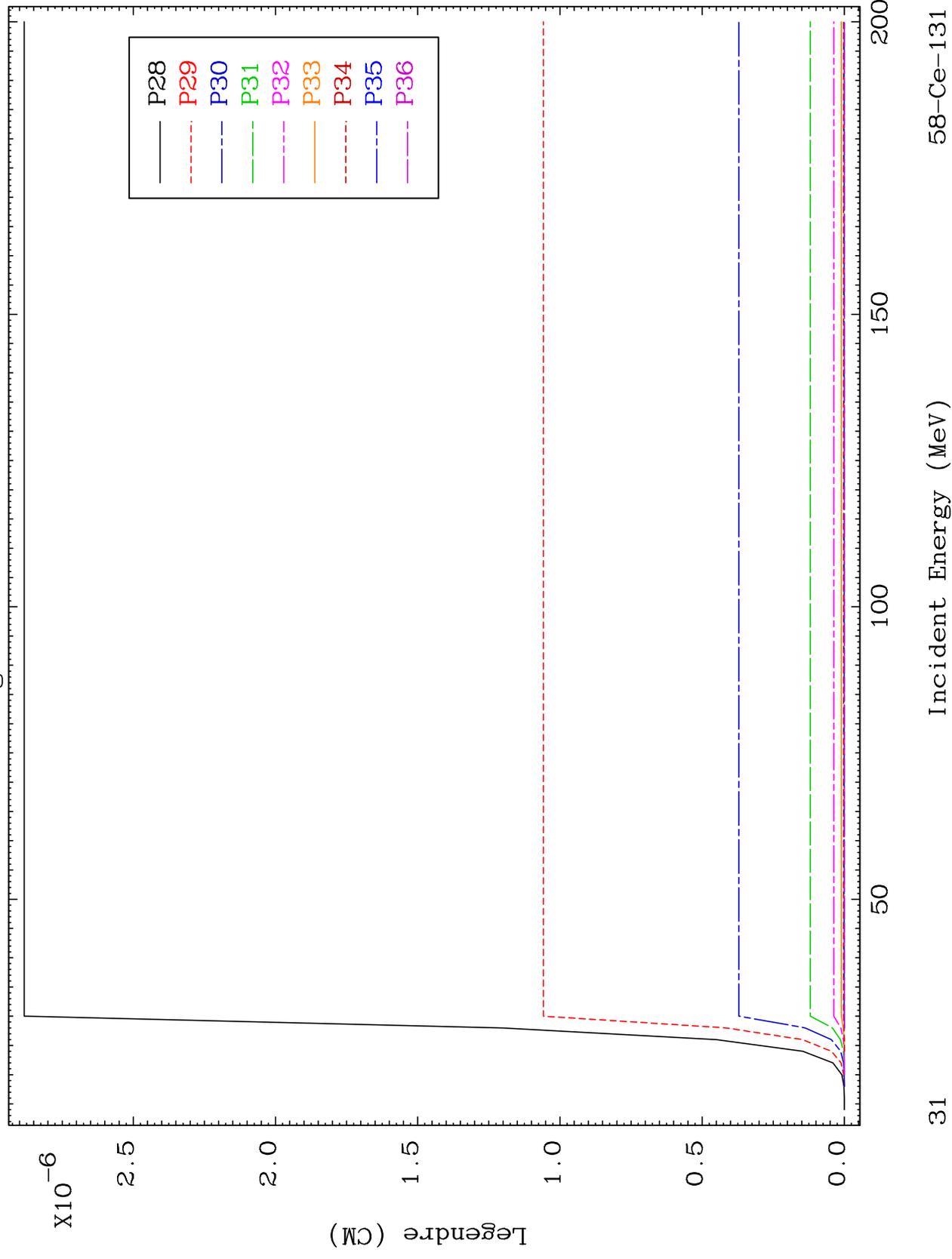
Incident Energy (MeV)

29

MAT 5810

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

58-Ce-131



31

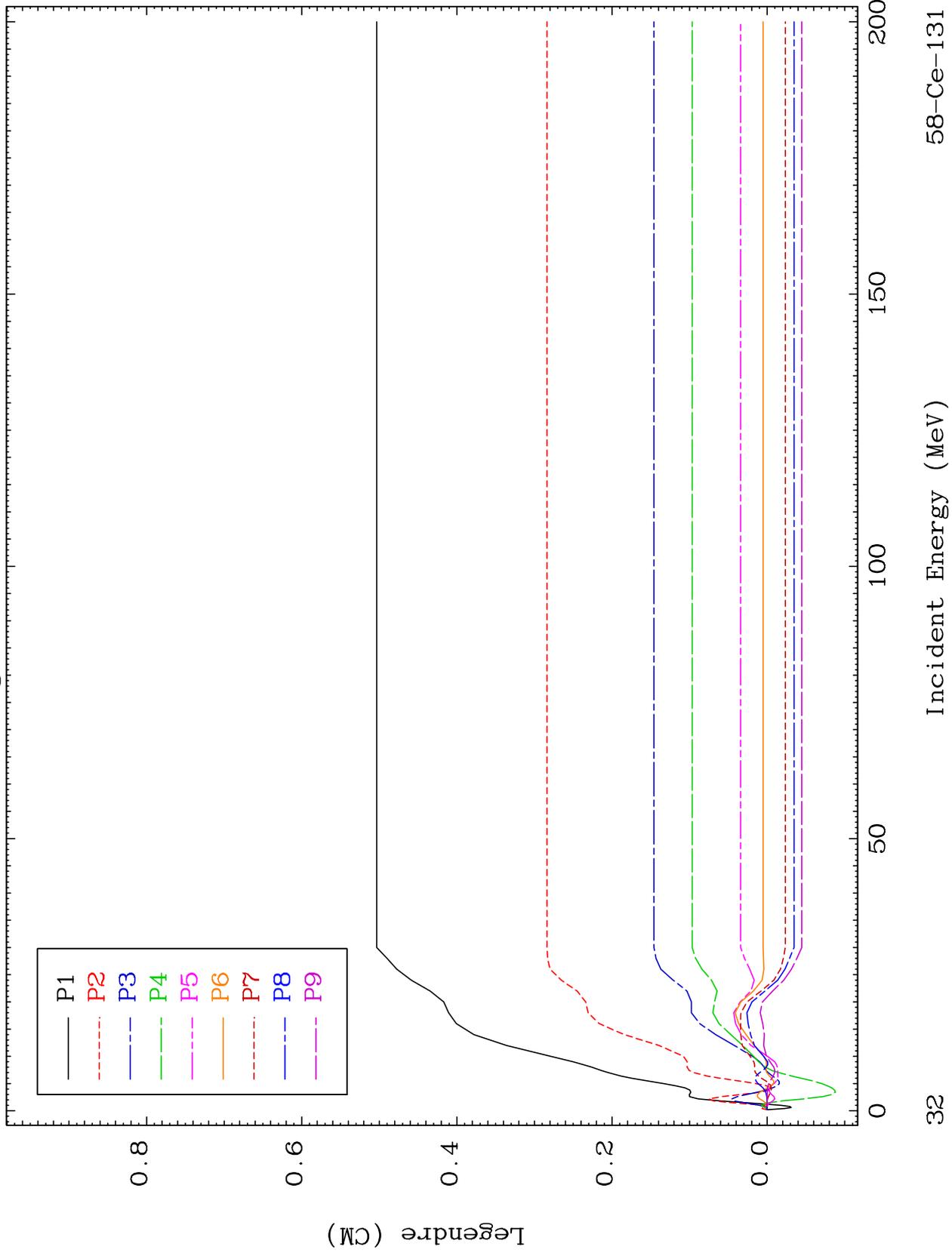
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

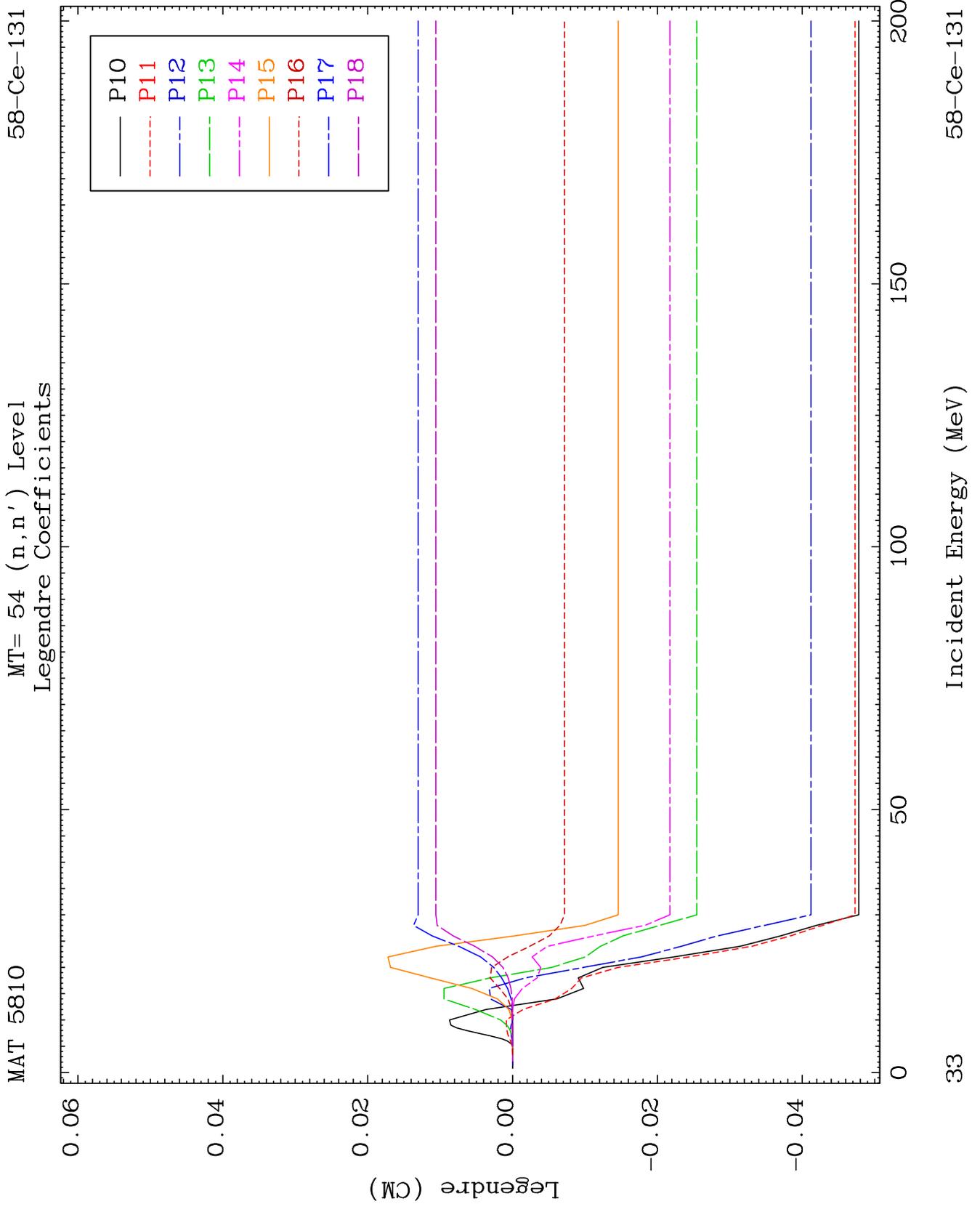
58-Ce-131



58-Ce-131

Incident Energy (MeV)

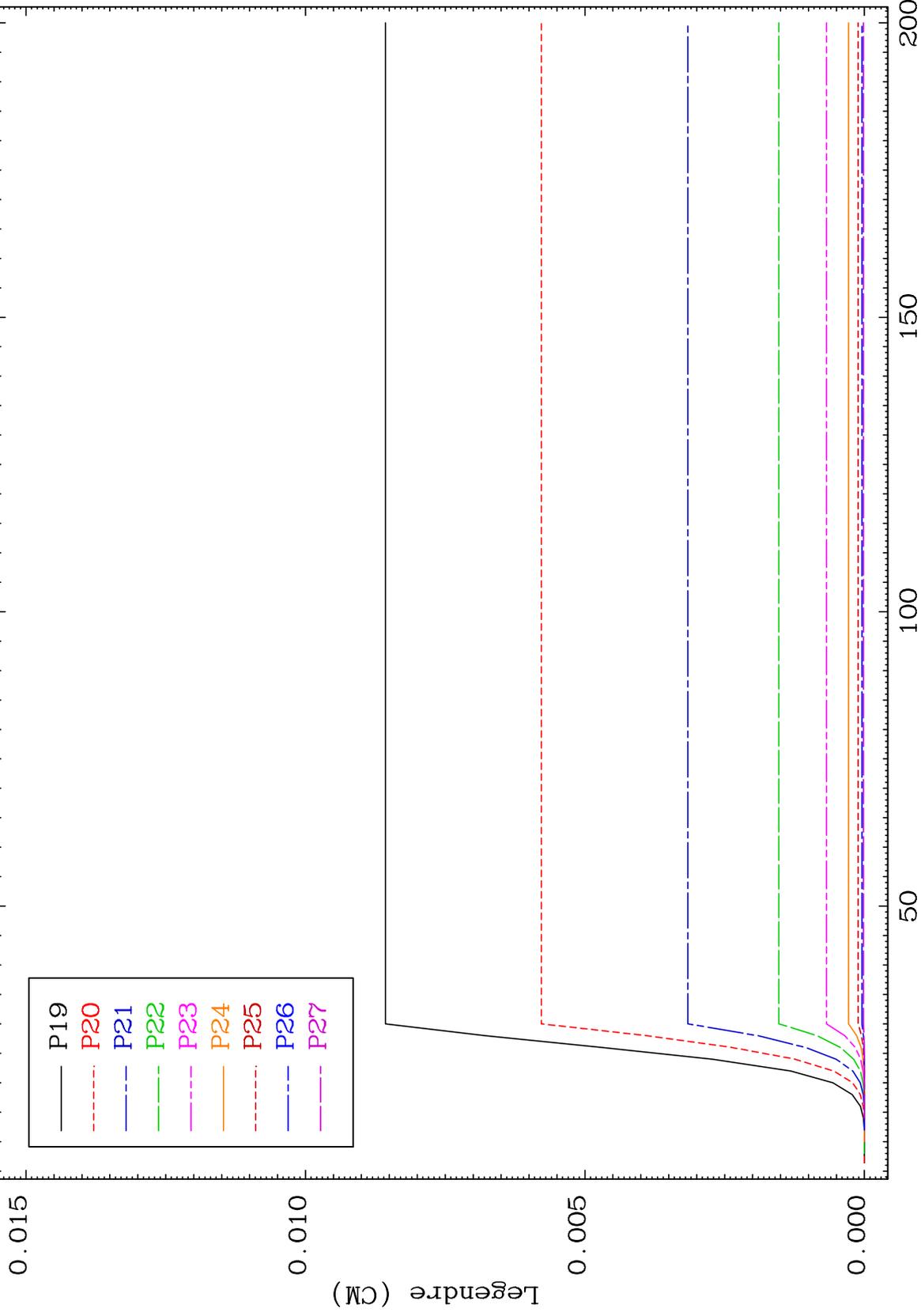
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MAT 5810

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

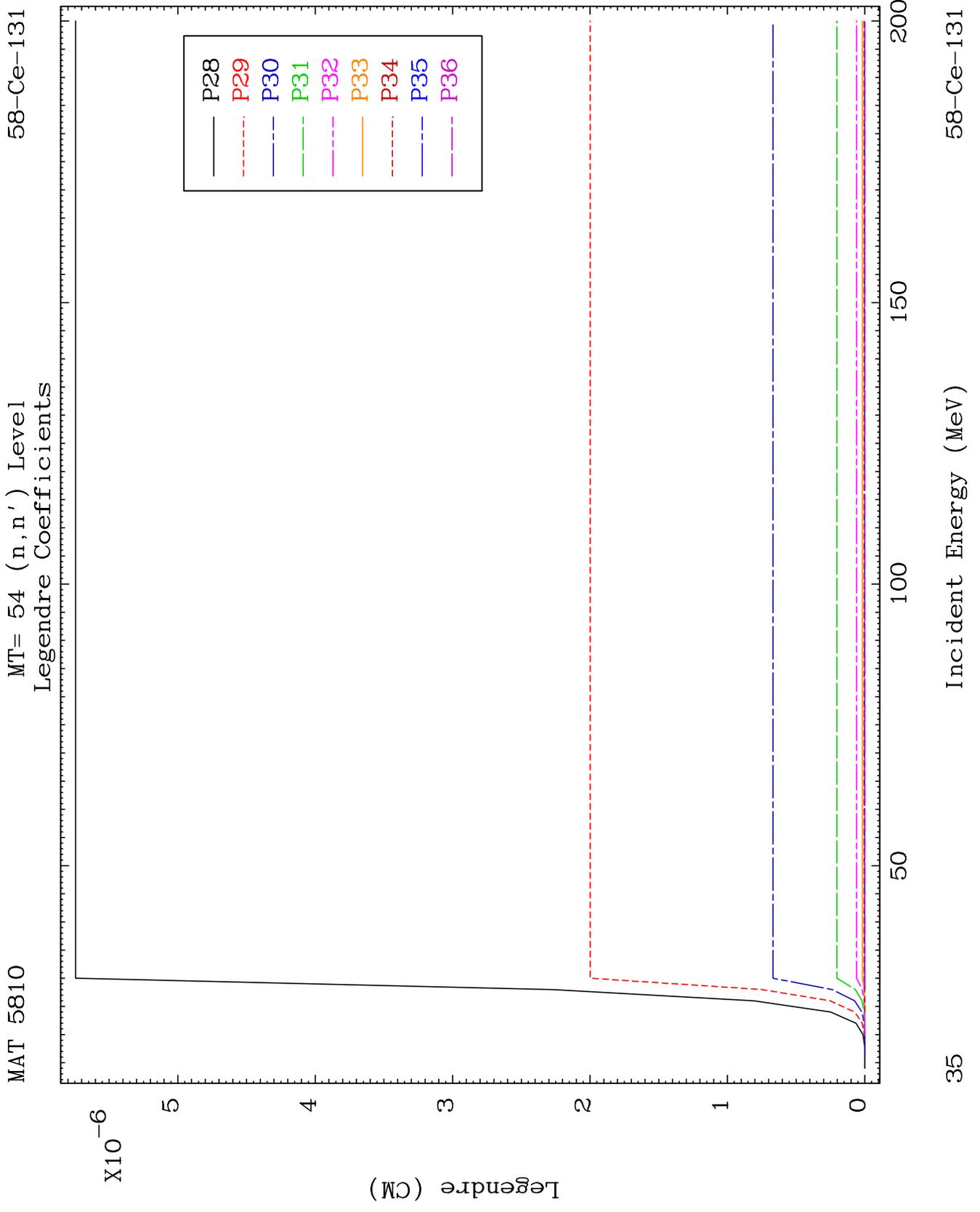
58-Ce-131



34

Incident Energy (MeV)

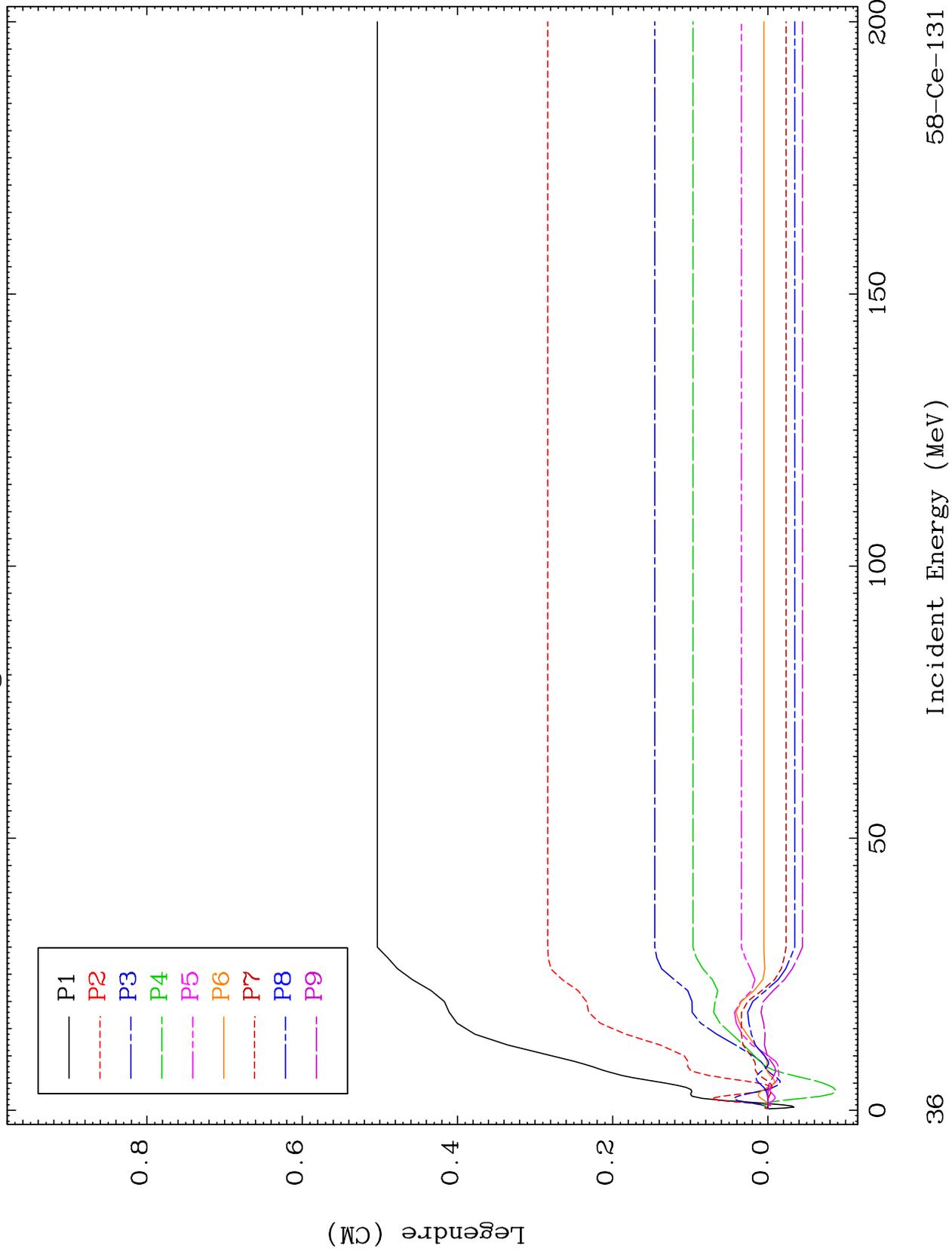
58-Ce-131



MAT 5810

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

58-Ce-131



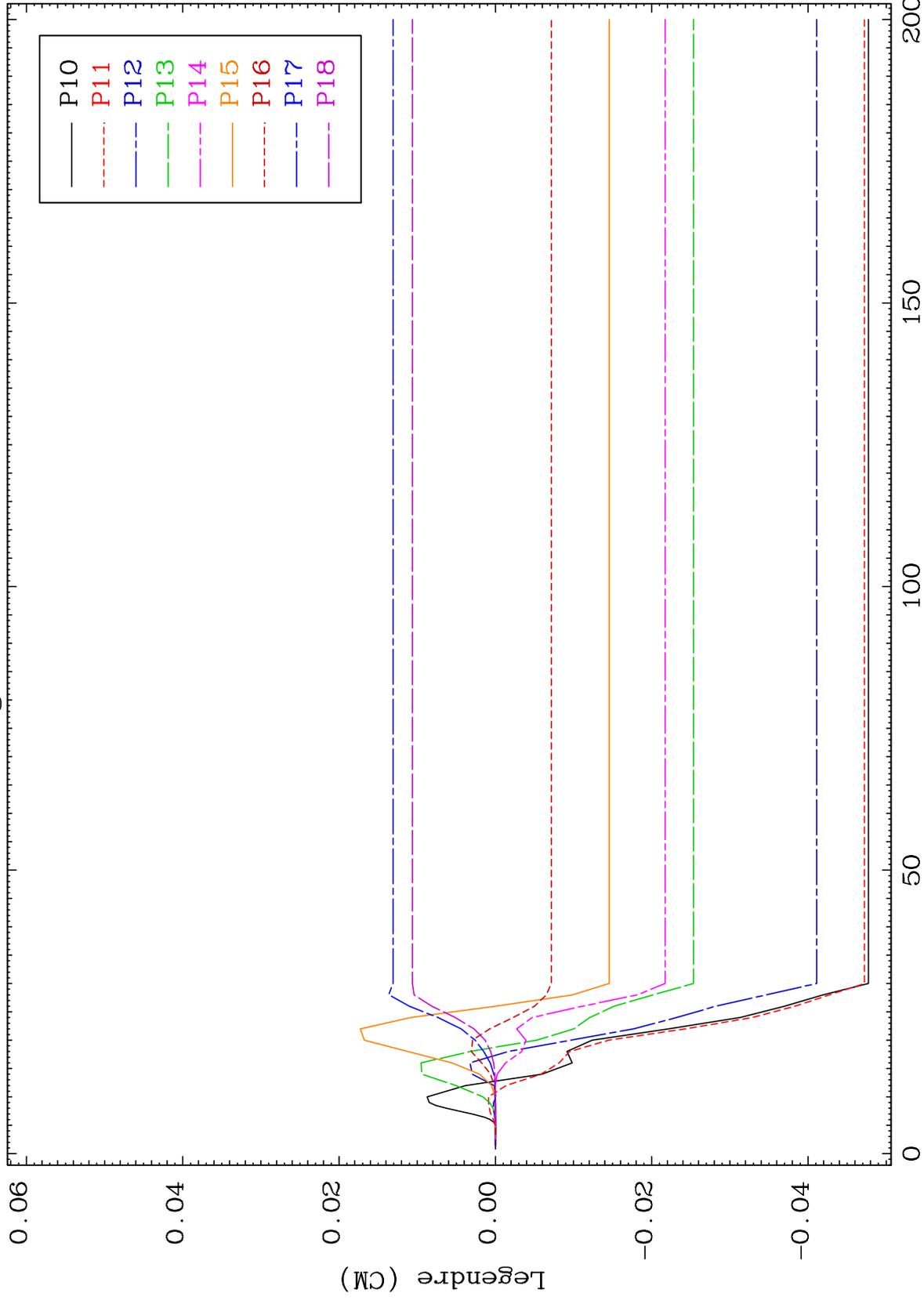
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58-Ce-131

MAT 5810

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

58-Ce-131



37

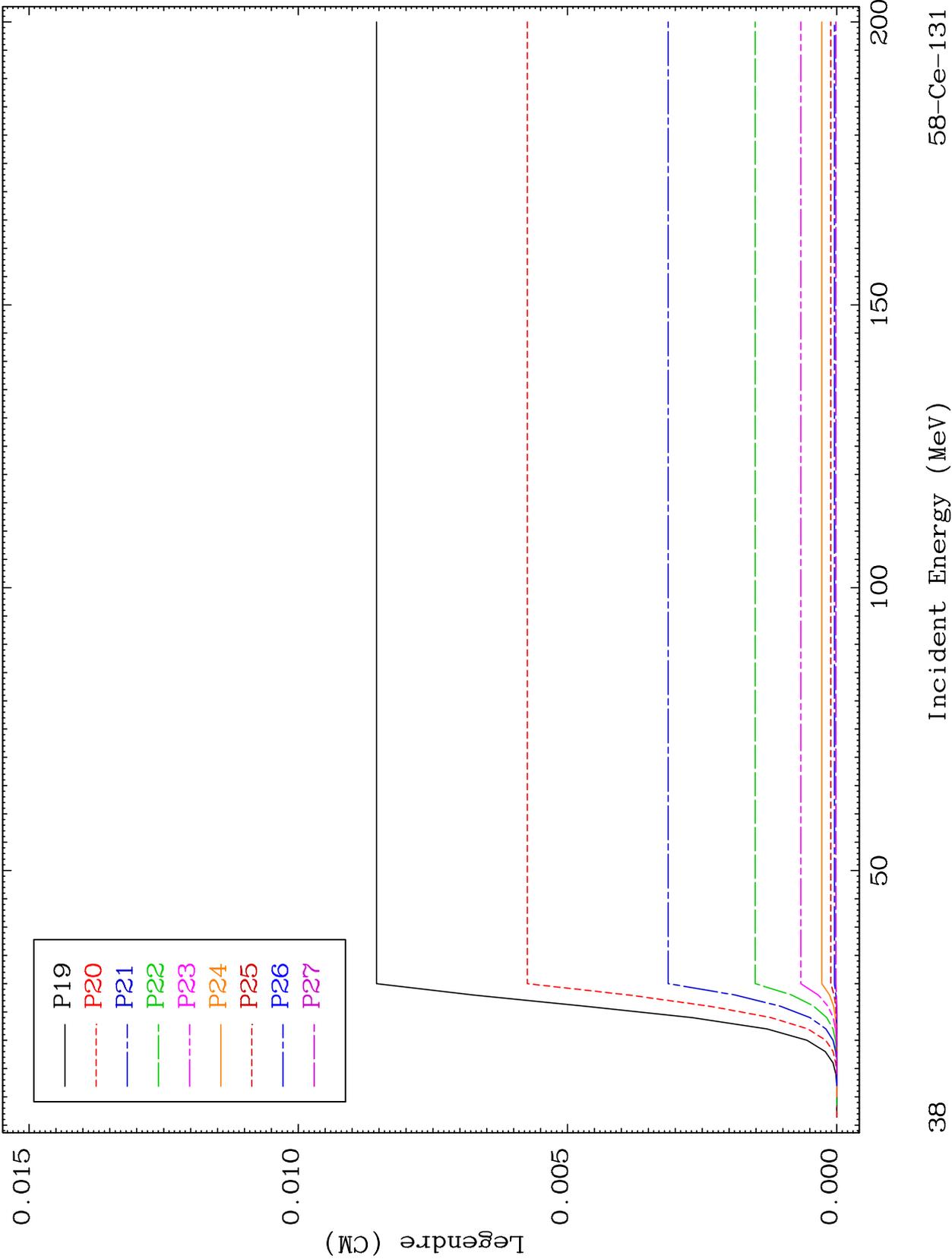
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



38

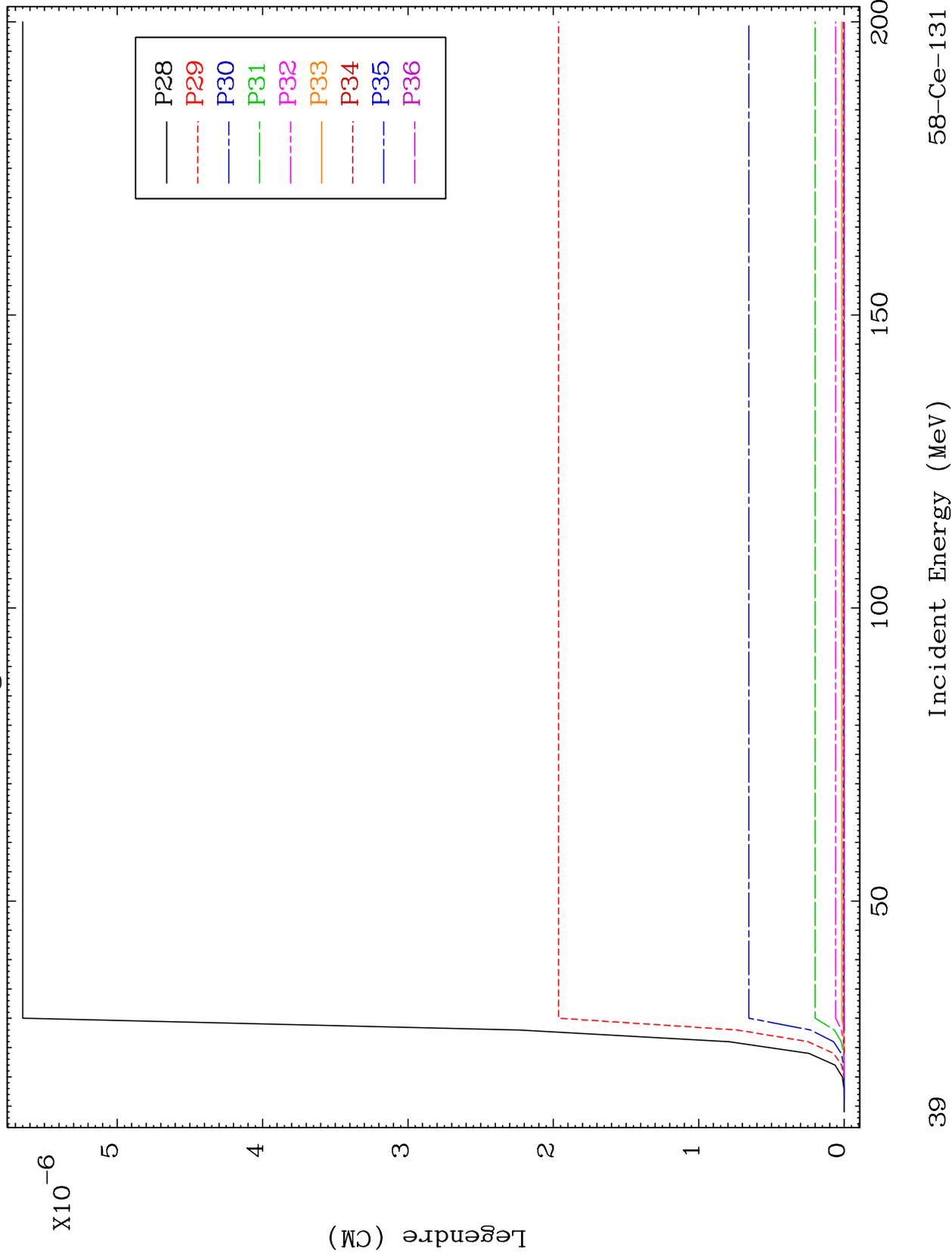
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



39

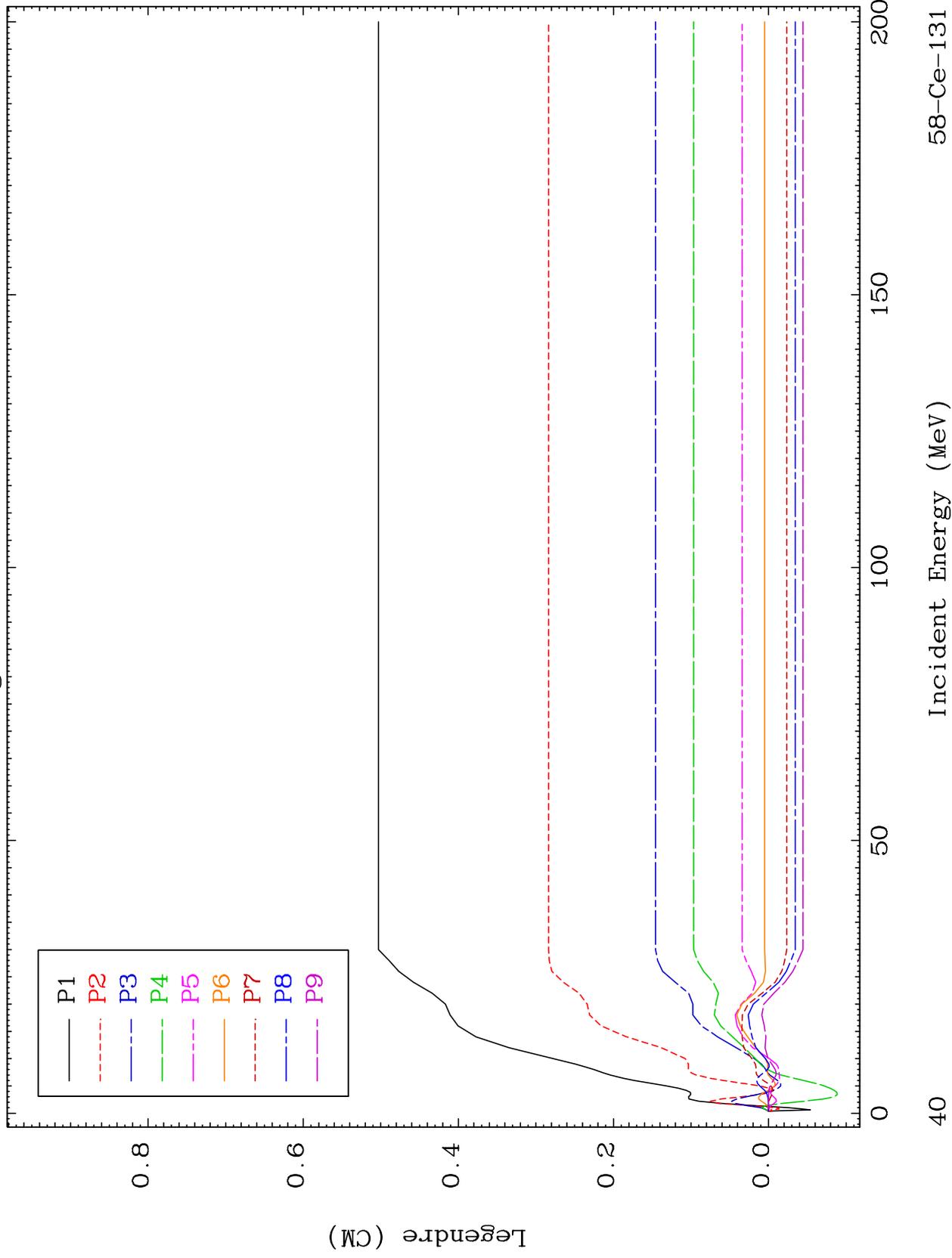
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



58-Ce-131

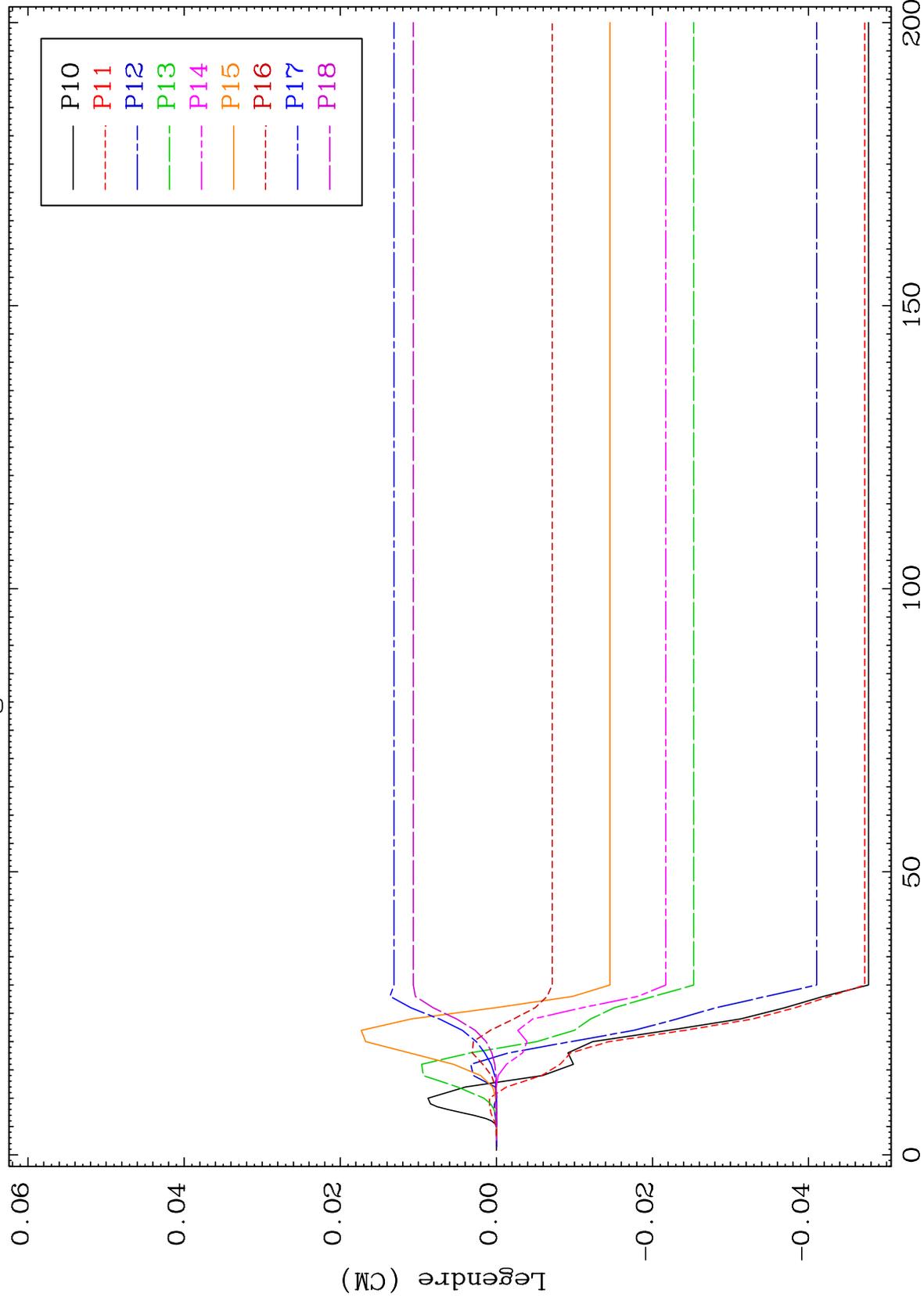
Incident Energy (MeV)

40

MAT 5810

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

58-Ce-131



41

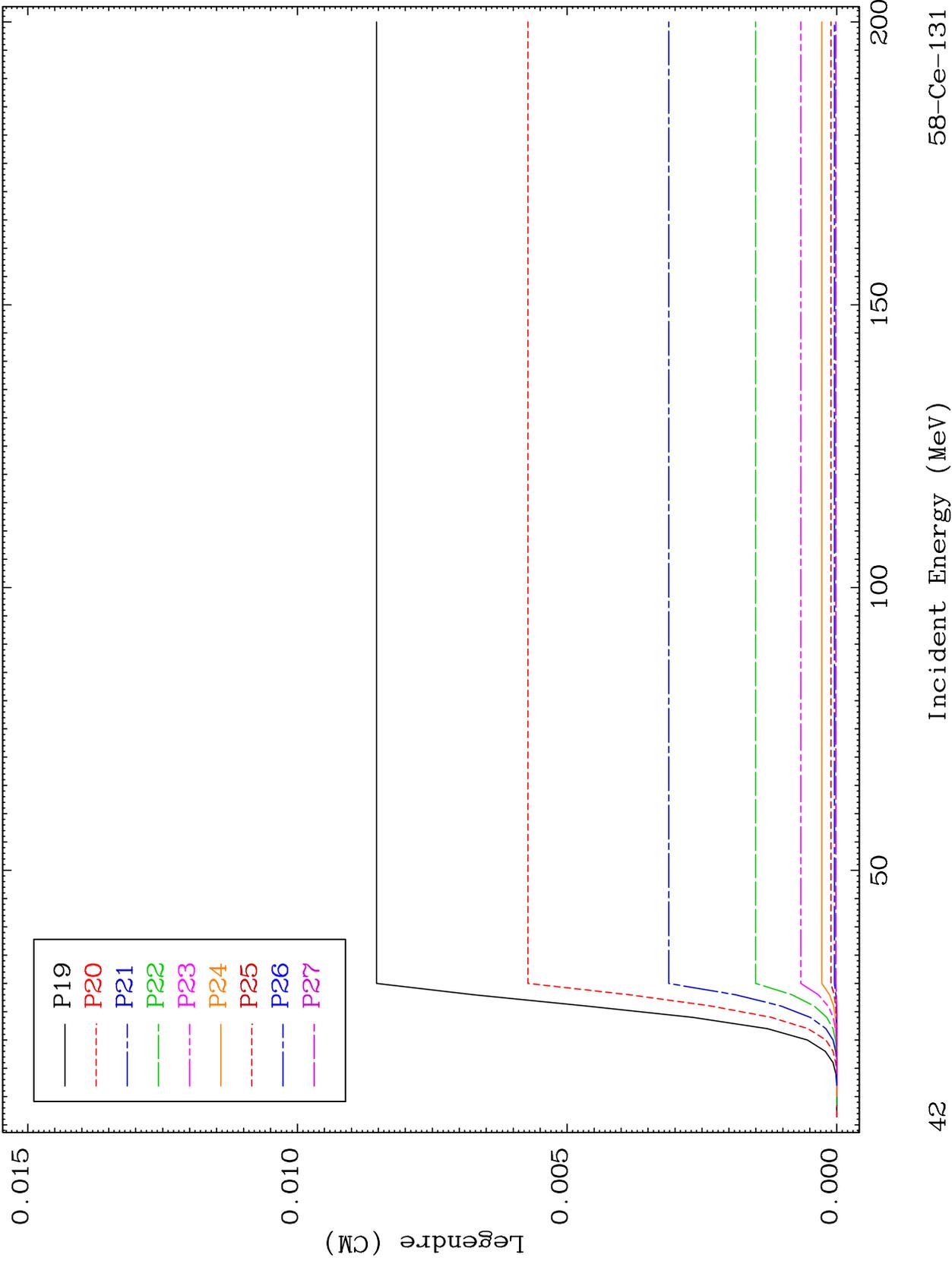
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



42

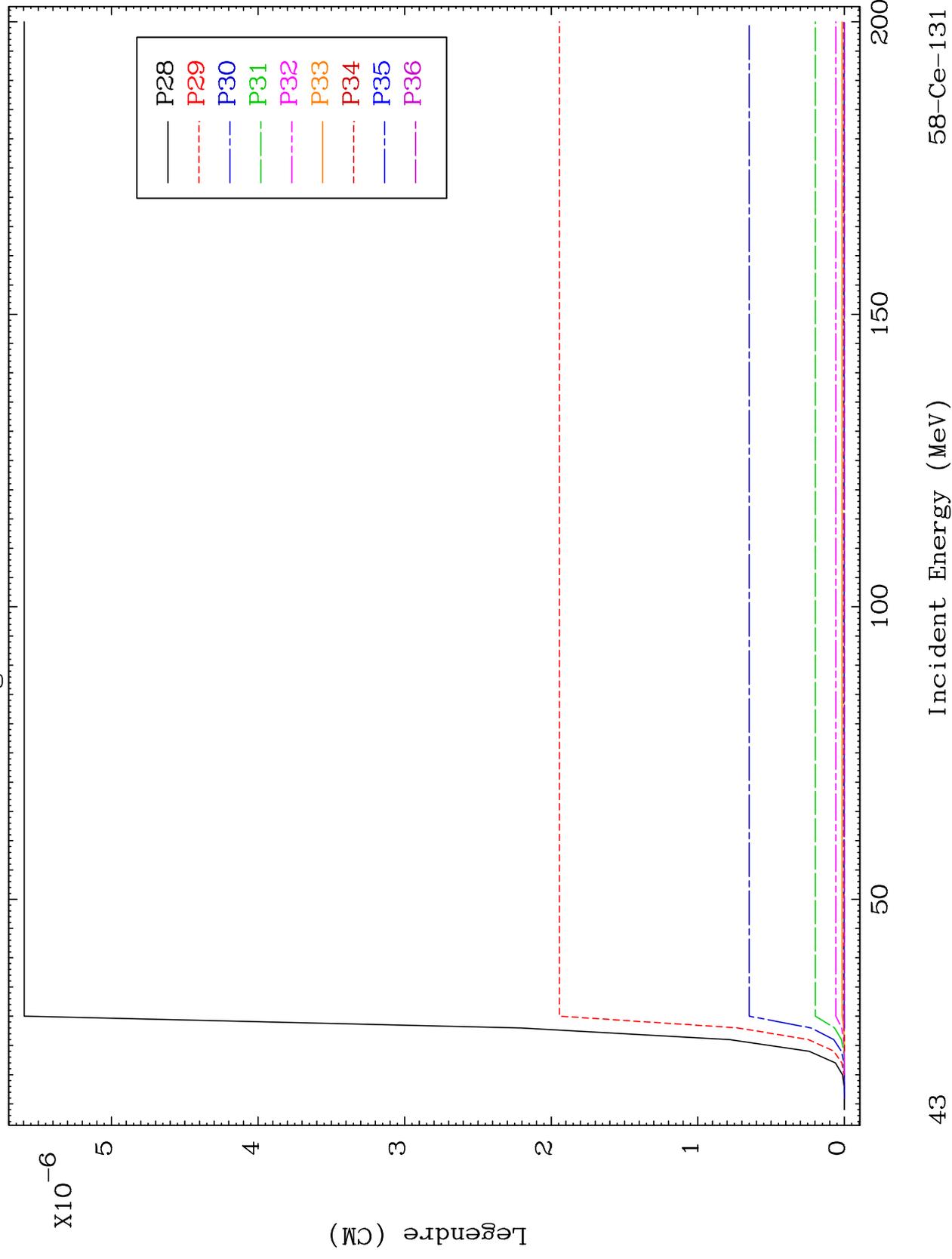
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



43

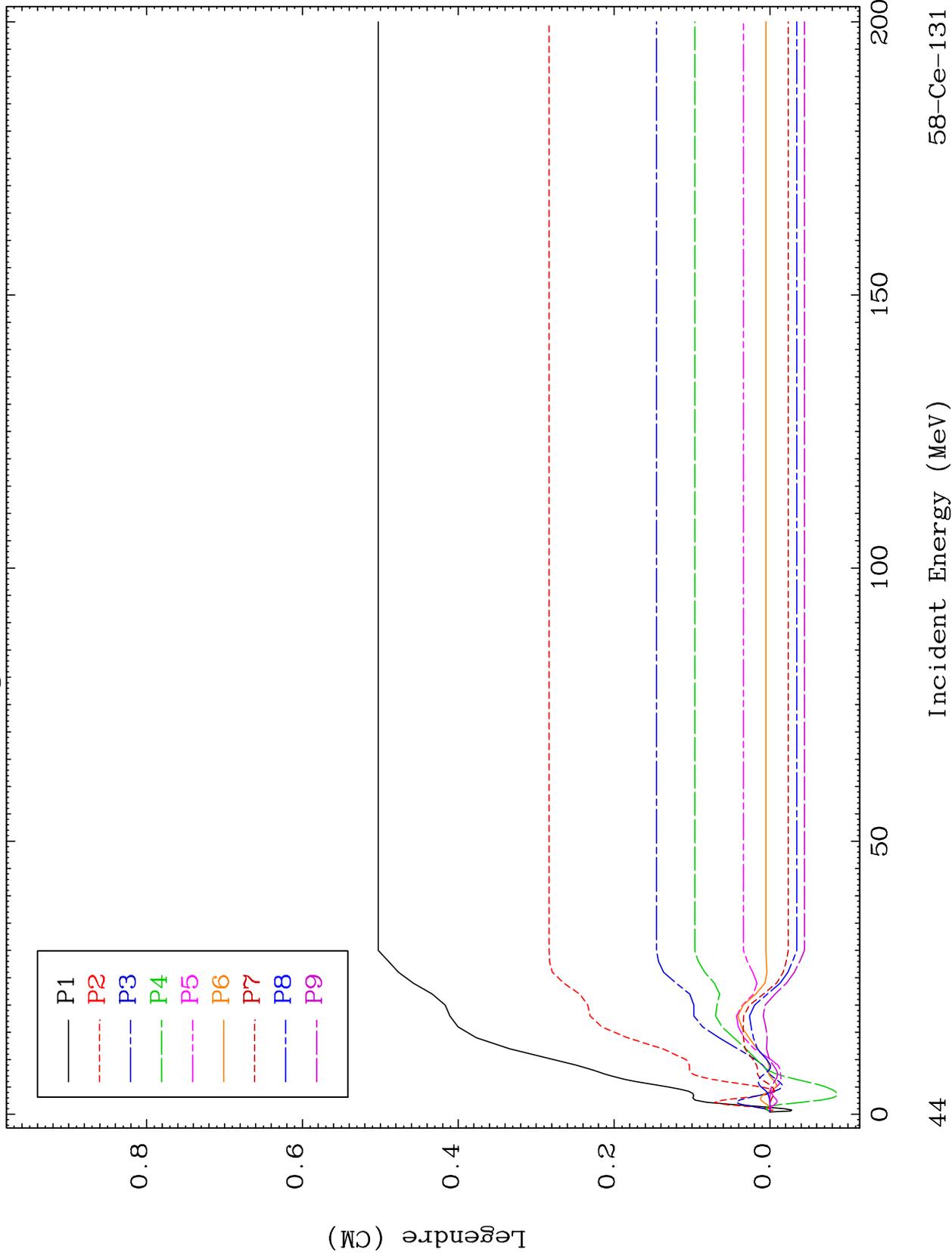
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



58-Ce-131

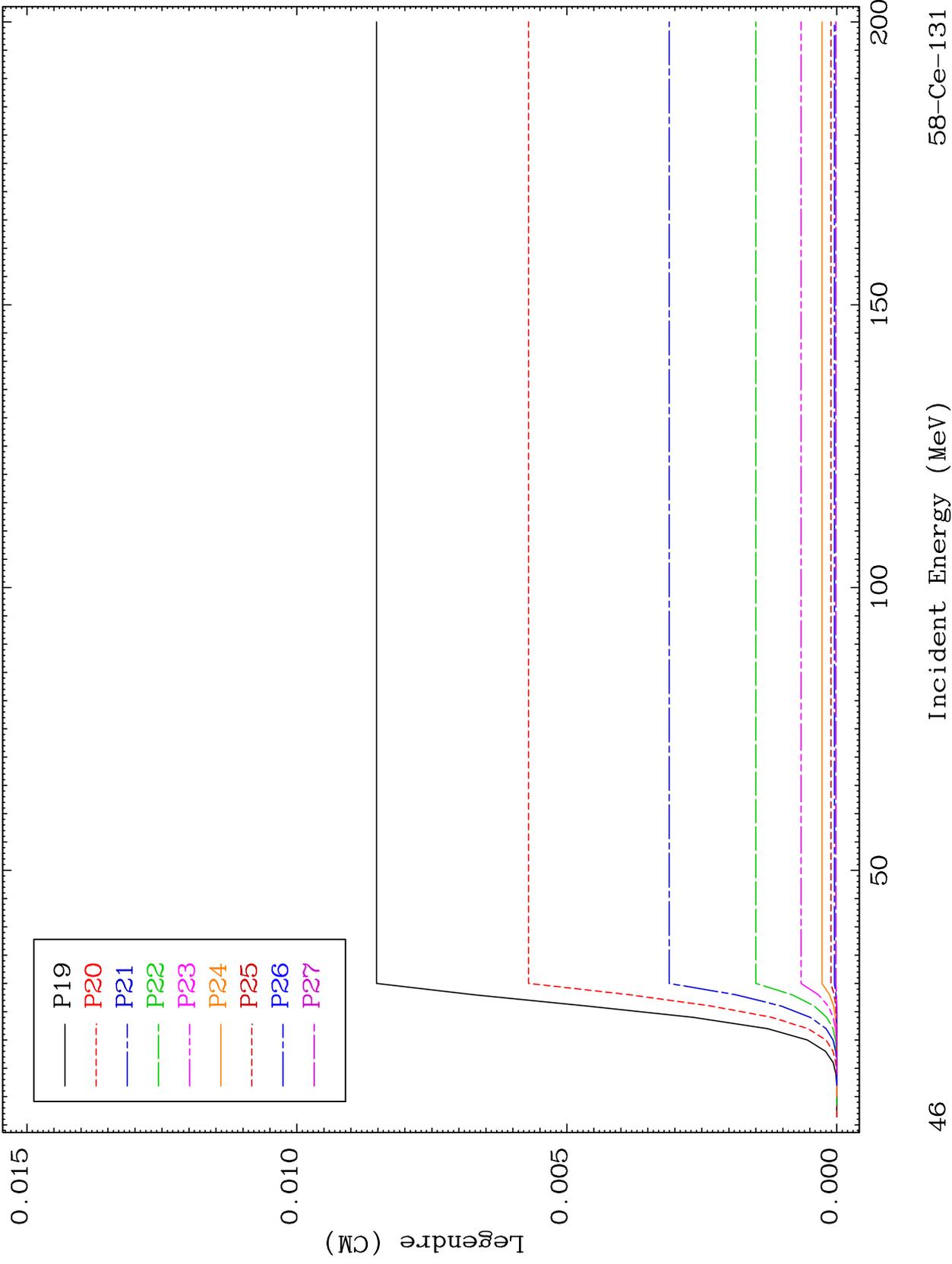
Incident Energy (MeV)

44

MAT 5810

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

58-Ce-131



46

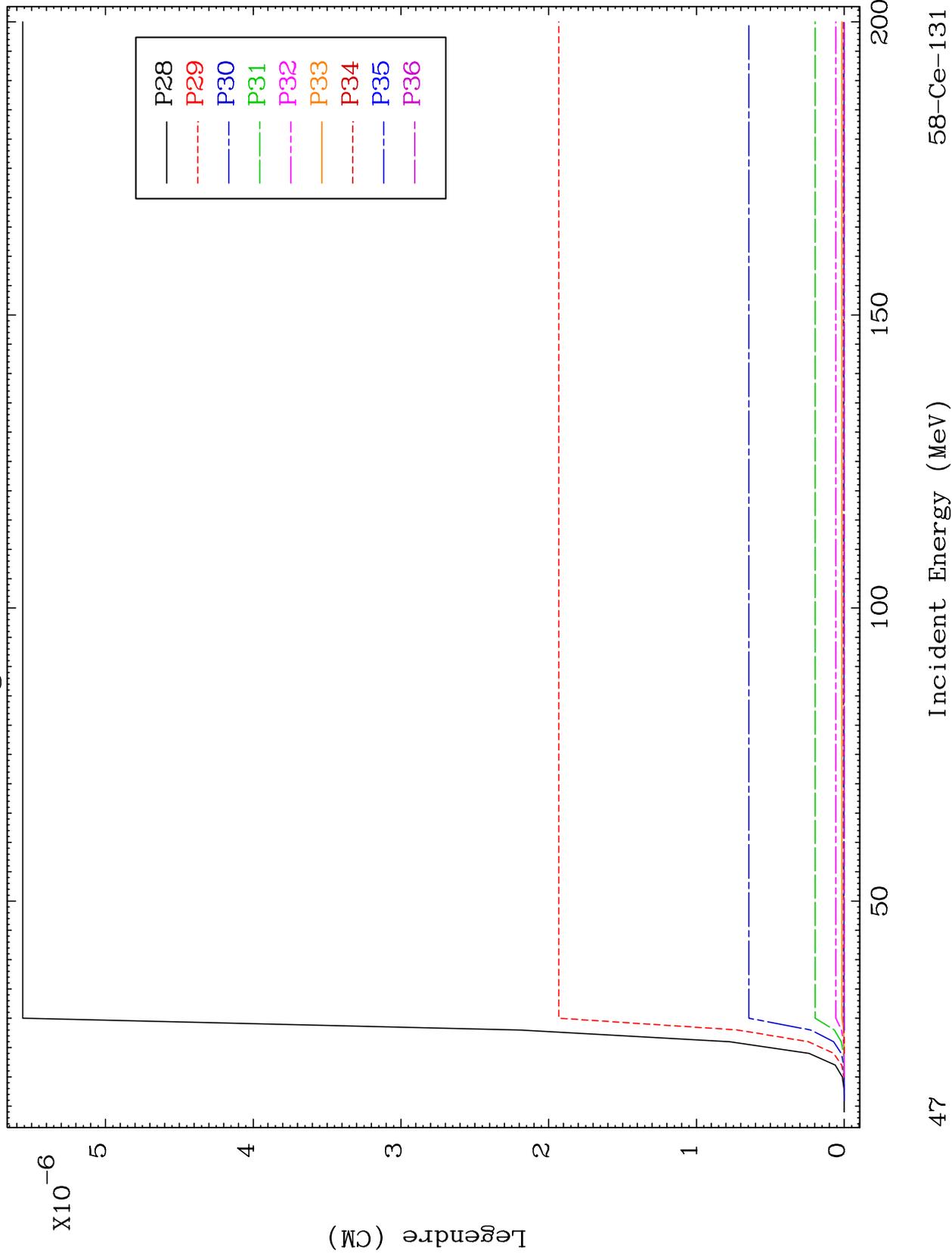
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

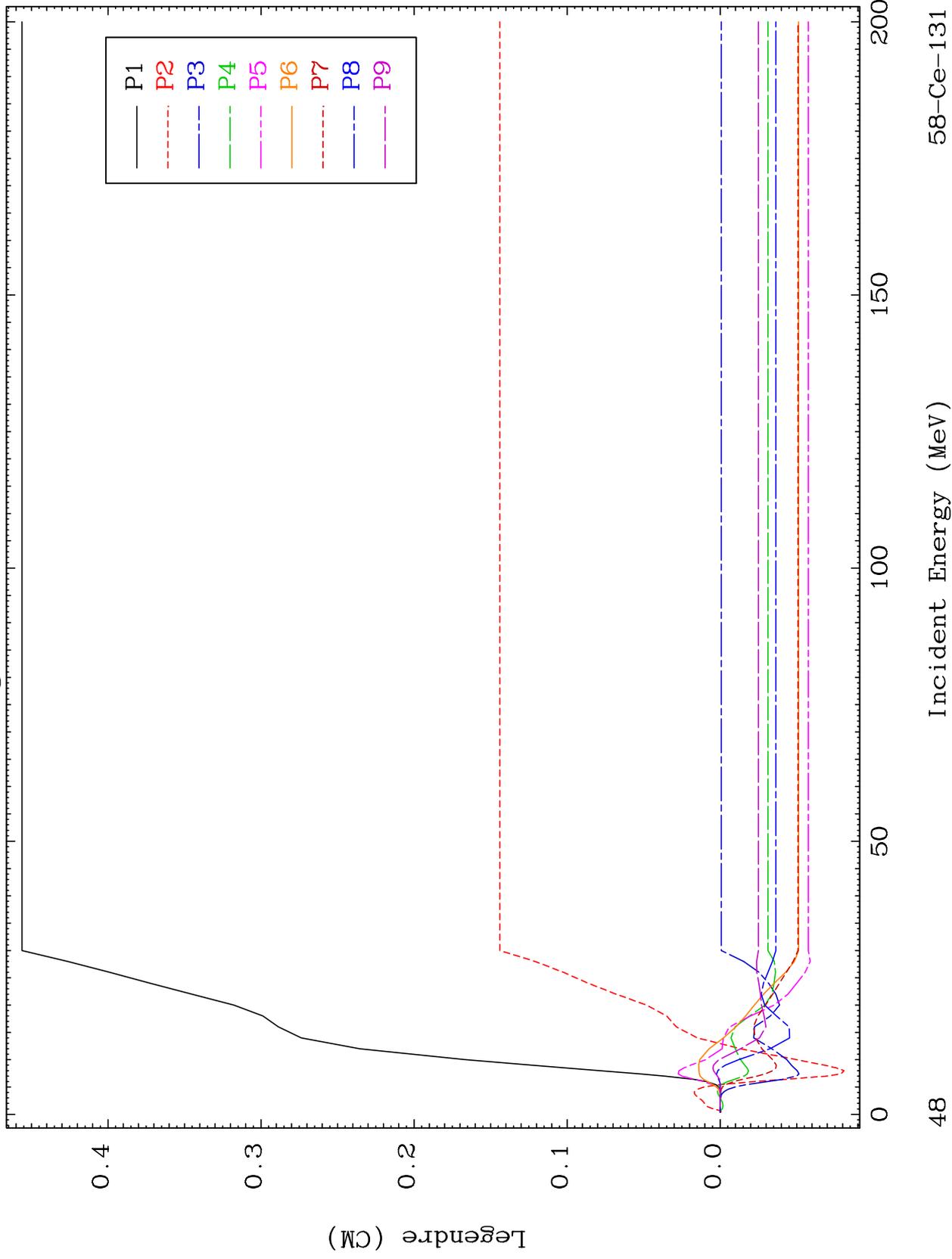
58-Ce-131



MAT 5810

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

58-Ce-131



58-Ce-131

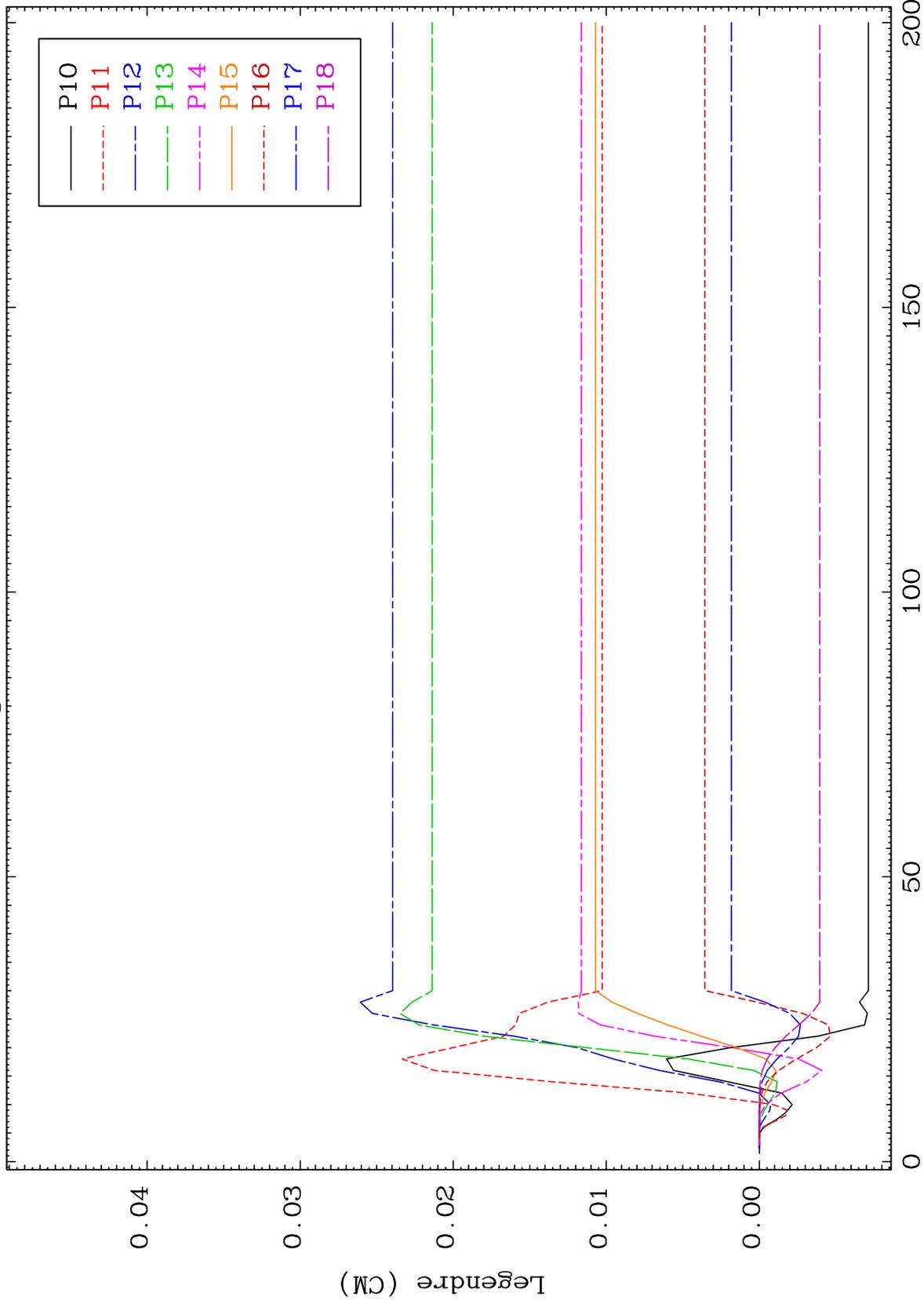
Incident Energy (MeV)

48

MAT 5810

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

58-Ce-131



49

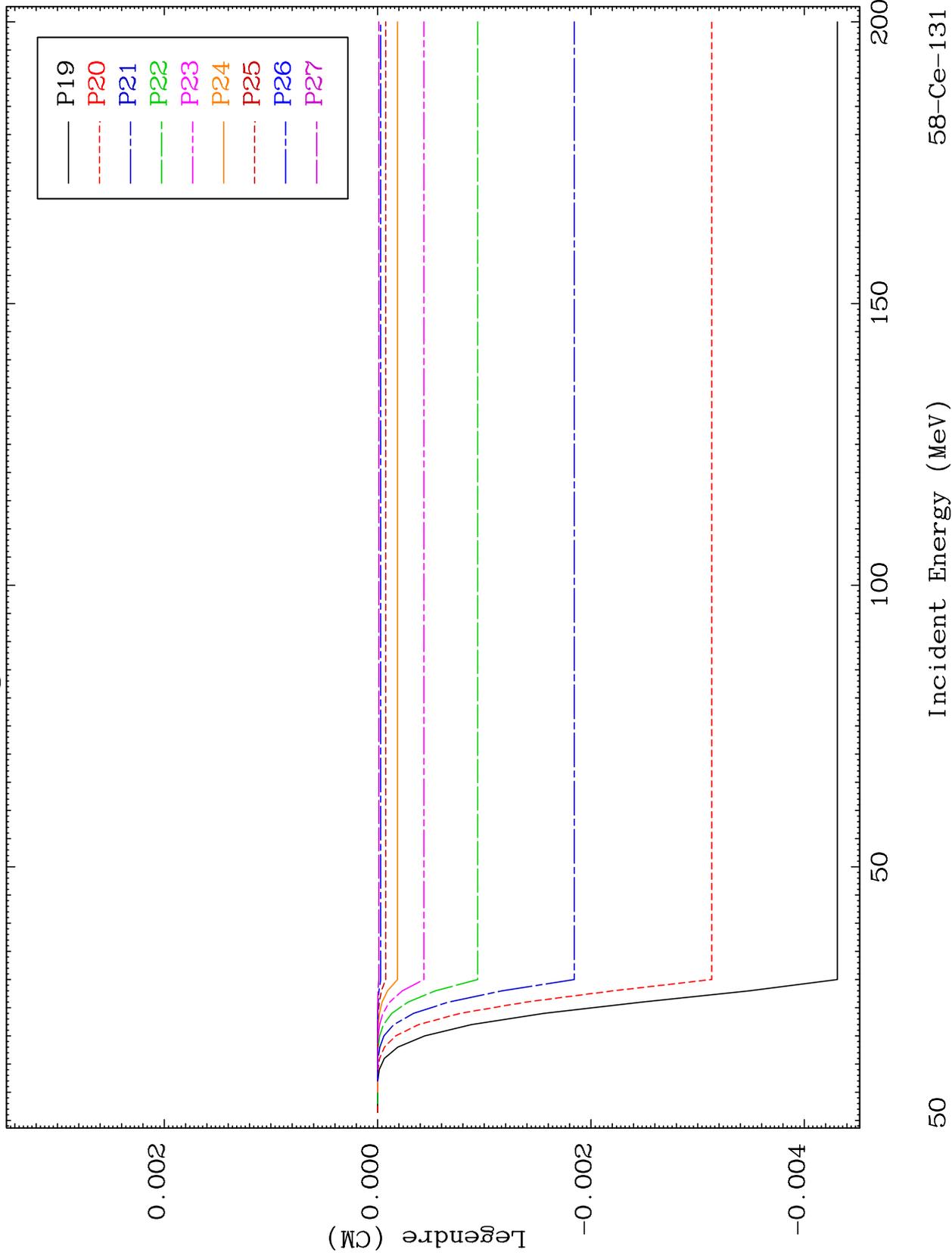
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

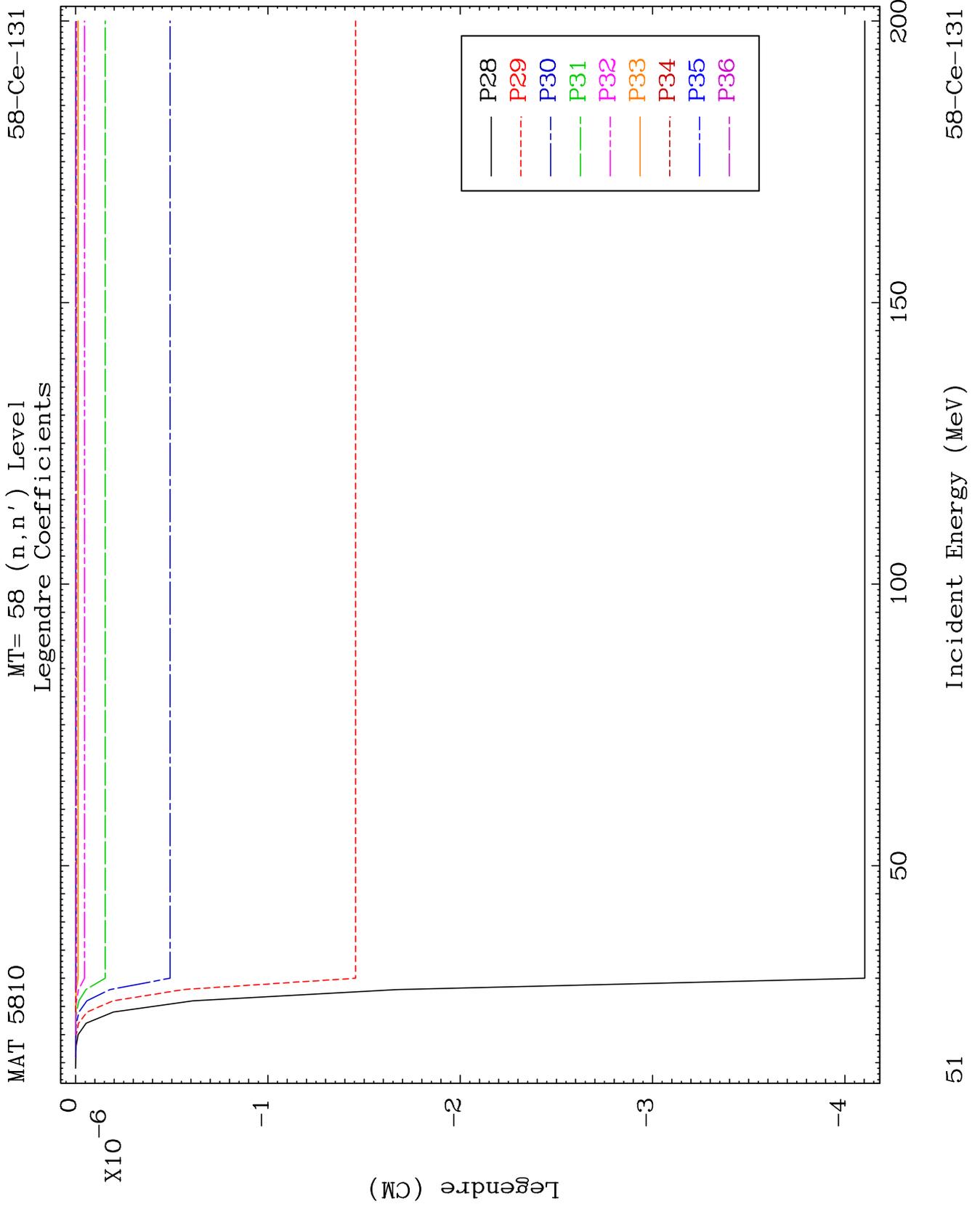
58-Ce-131



58-Ce-131

Incident Energy (MeV)

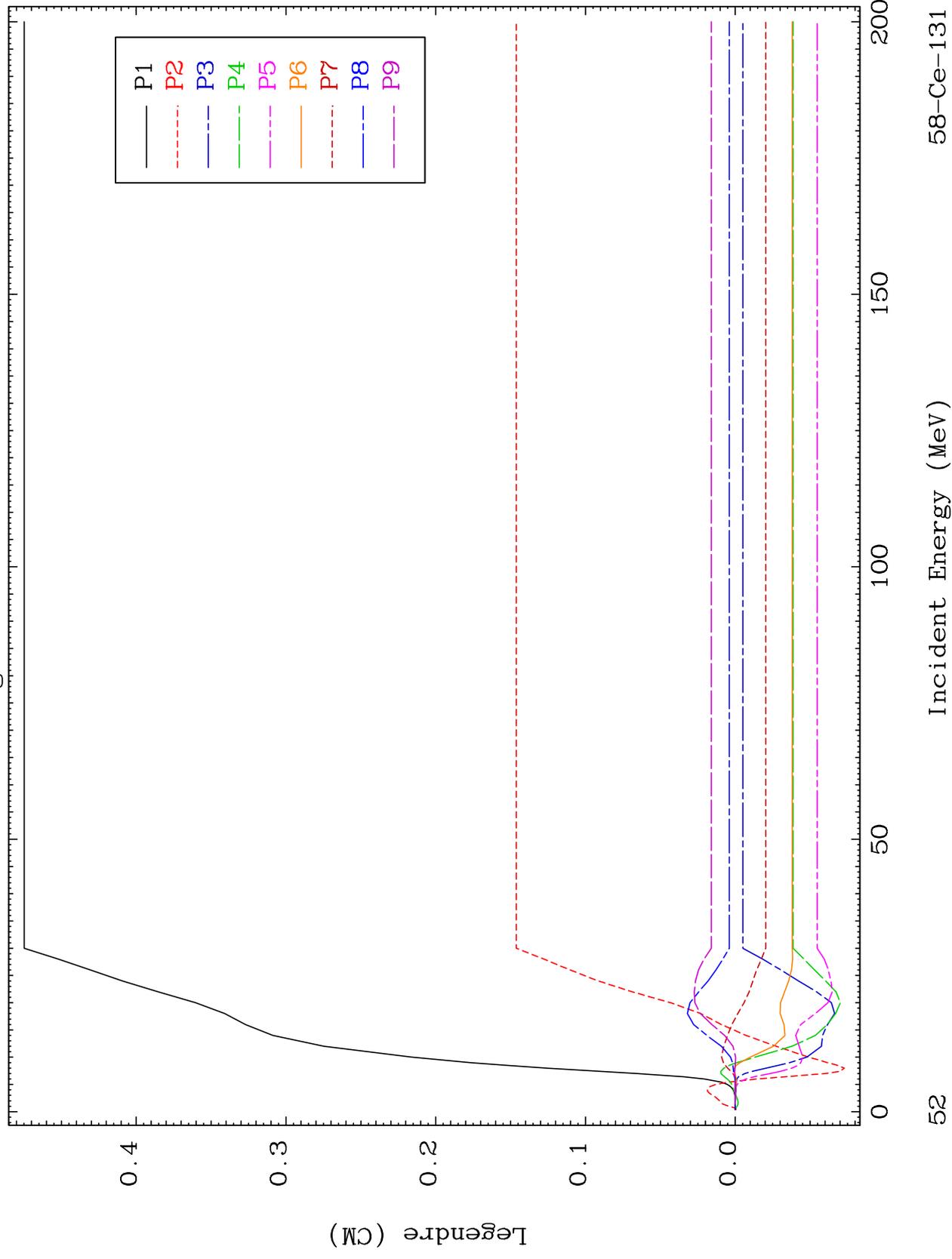
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MAT 5810

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

58-Ce-131



58-Ce-131

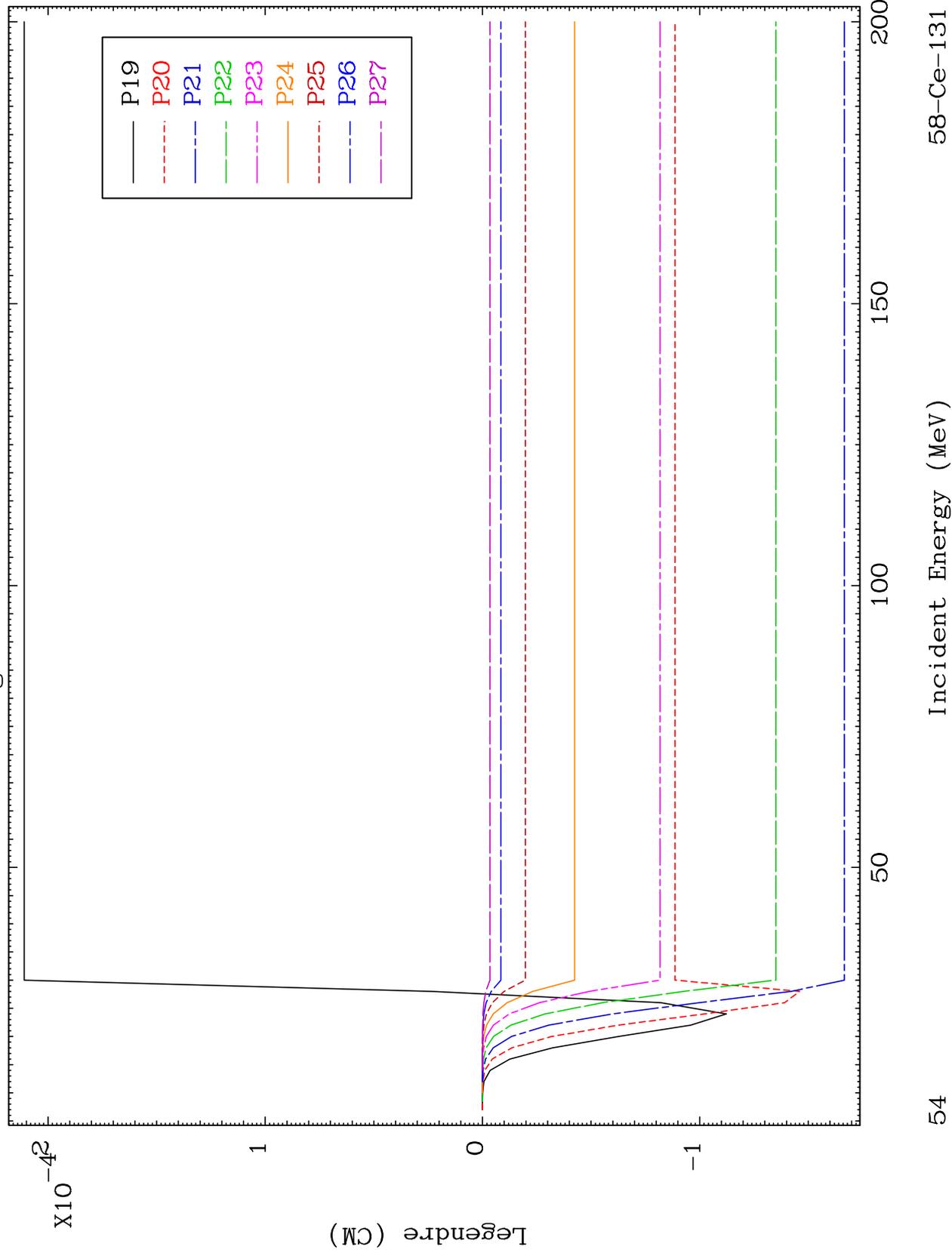
Incident Energy (MeV)

52

MAT 5810

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

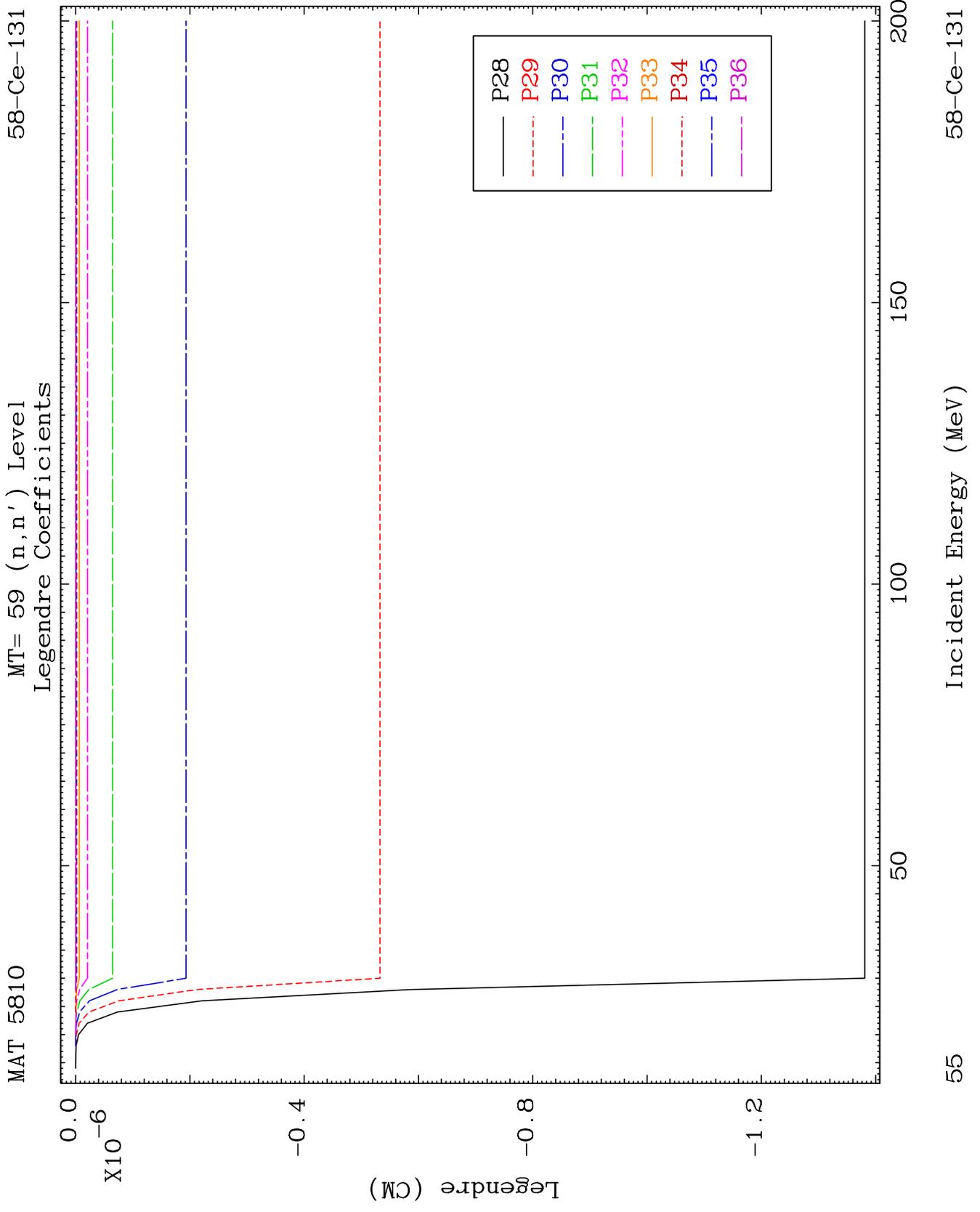
58-Ce-131



54

Incident Energy (MeV)

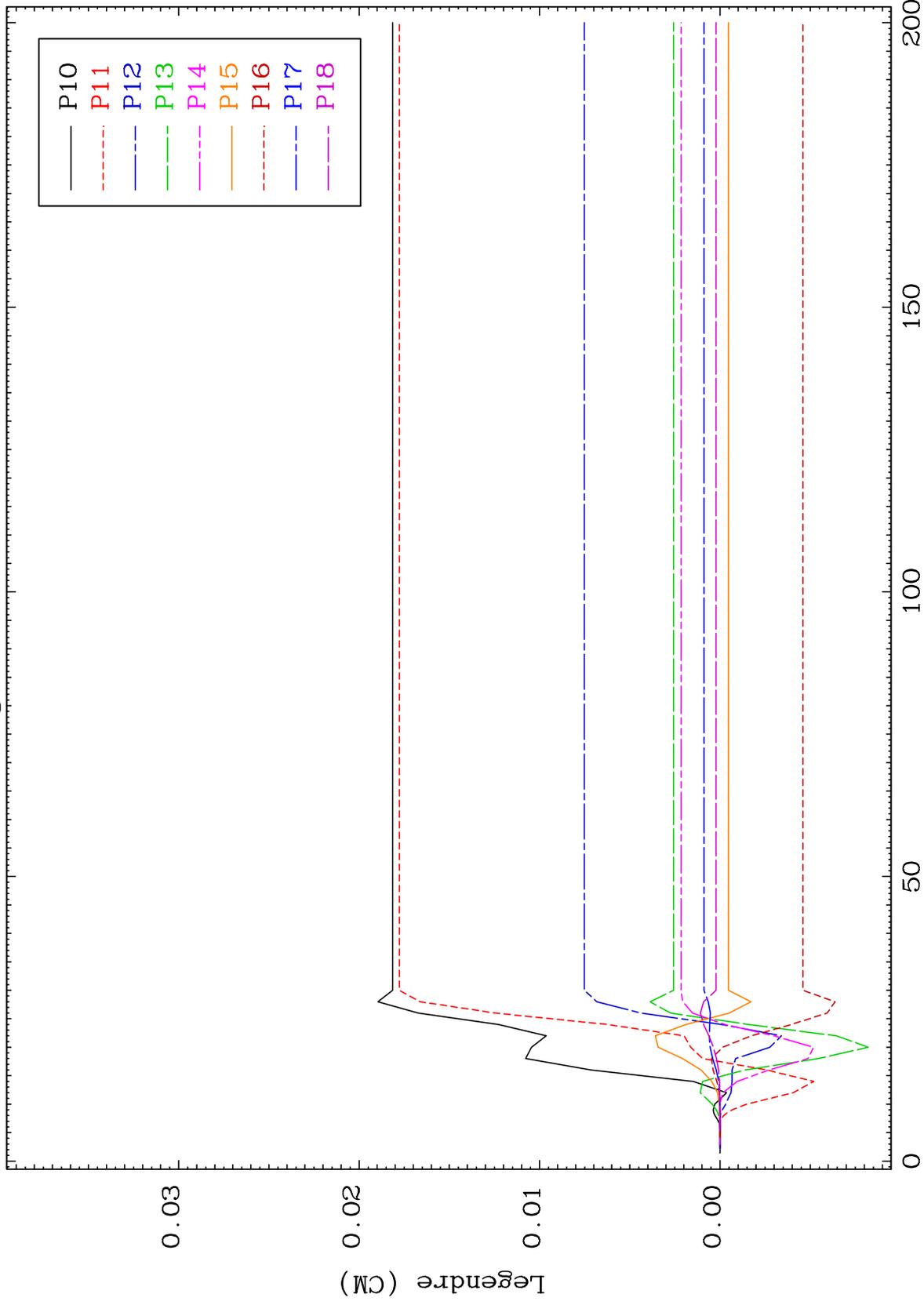
58-Ce-131



MAT 5810

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

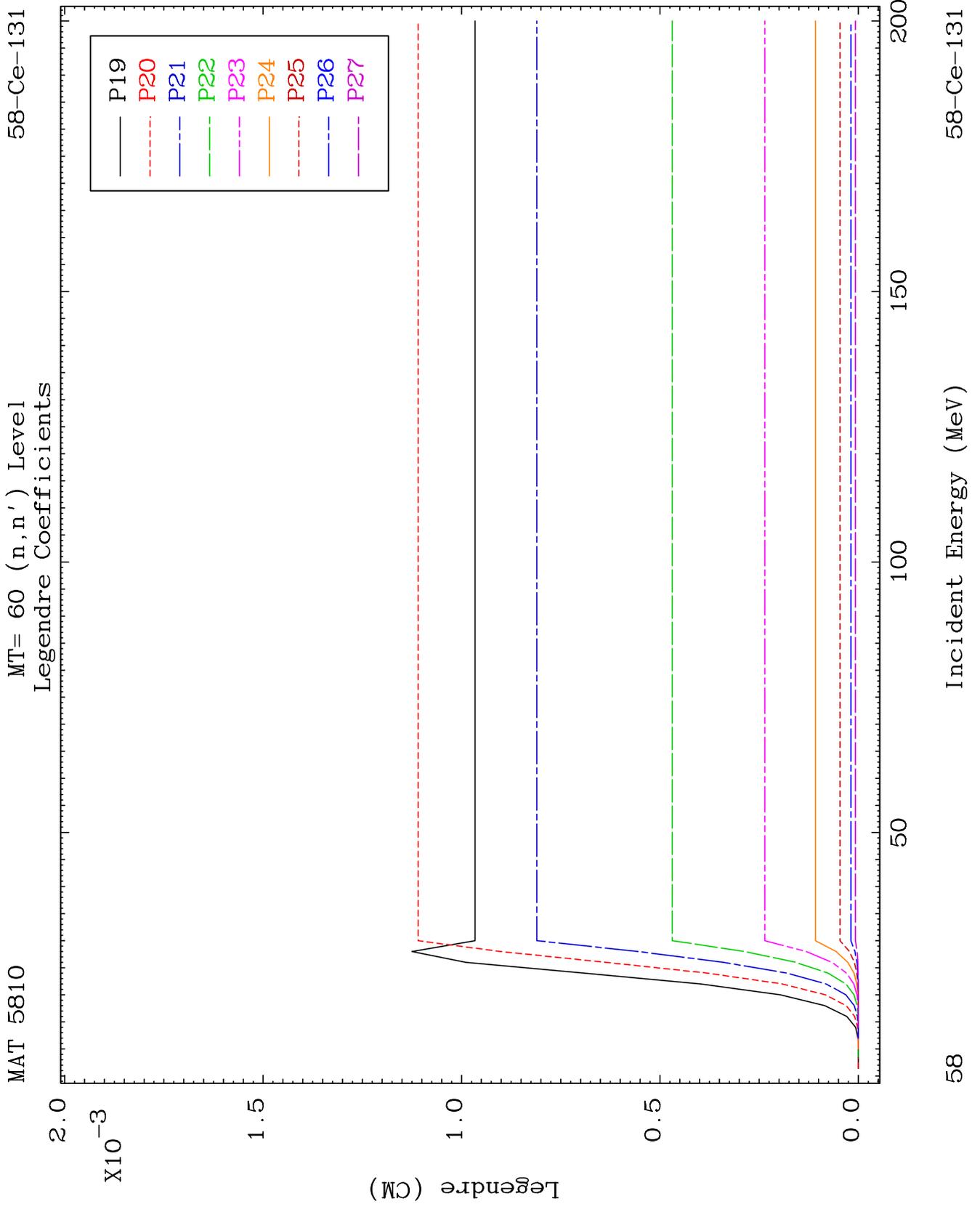
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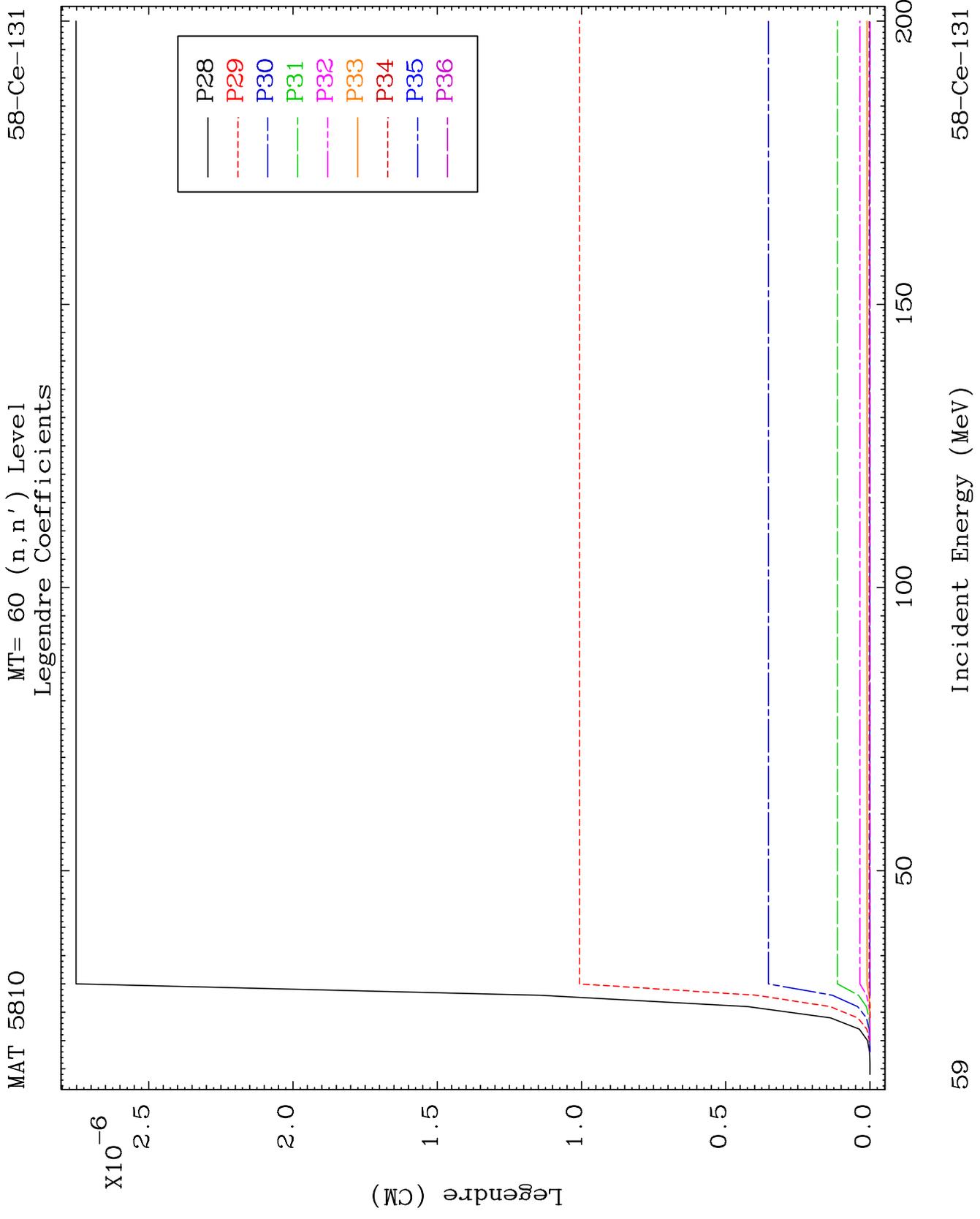


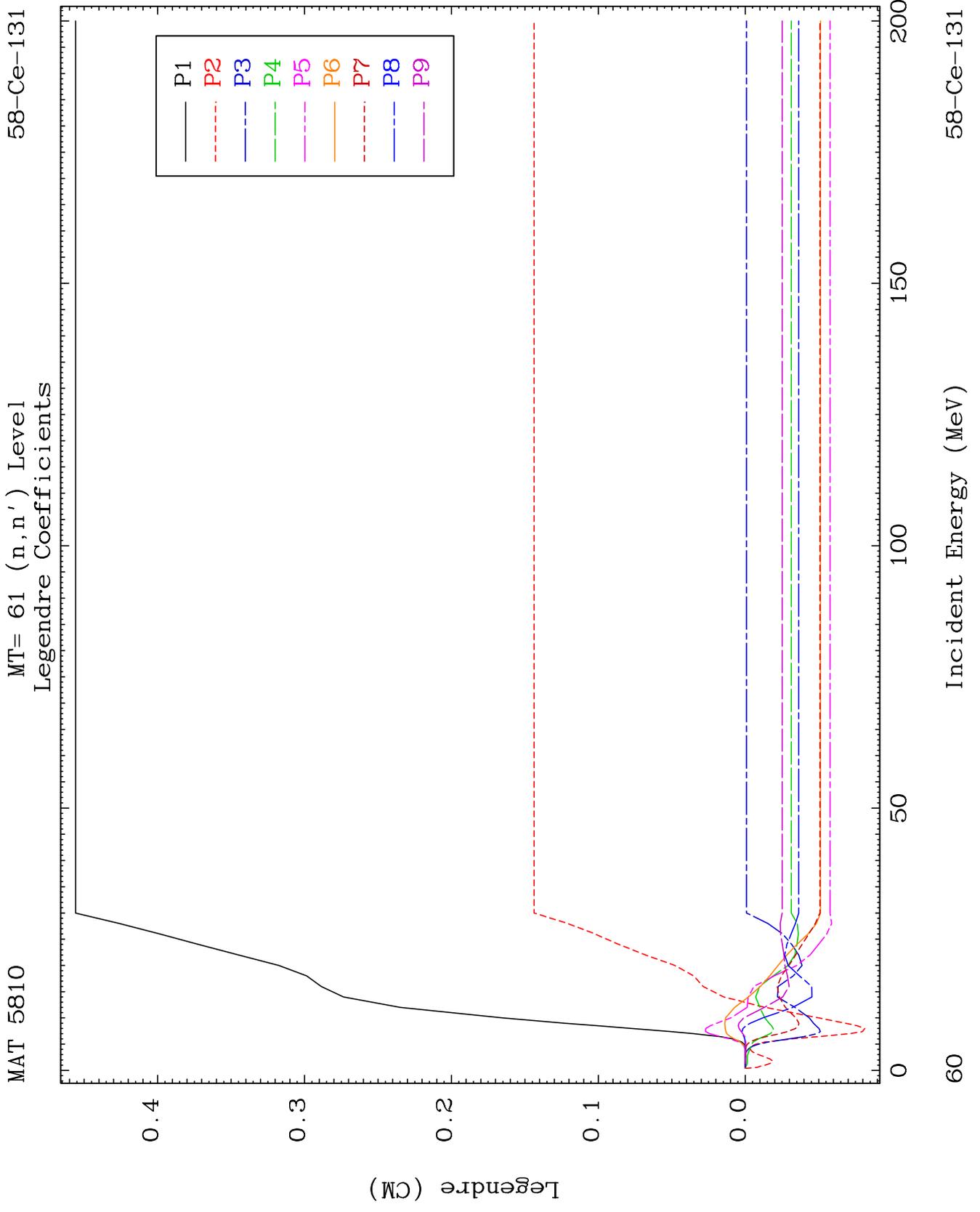
57

Incident Energy (MeV)

58-Ce-131



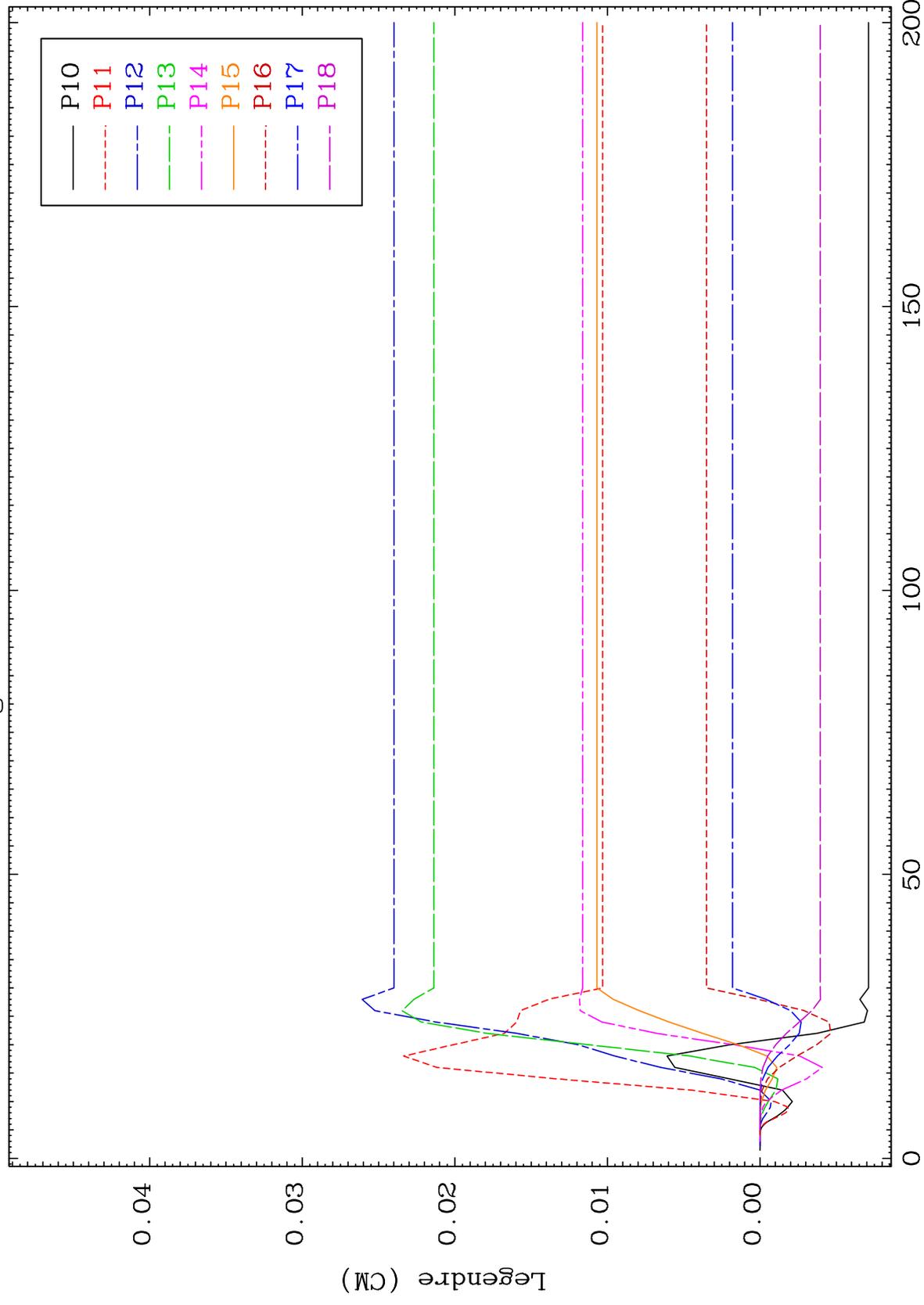




MAT 5810

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

58-Ce-131



61

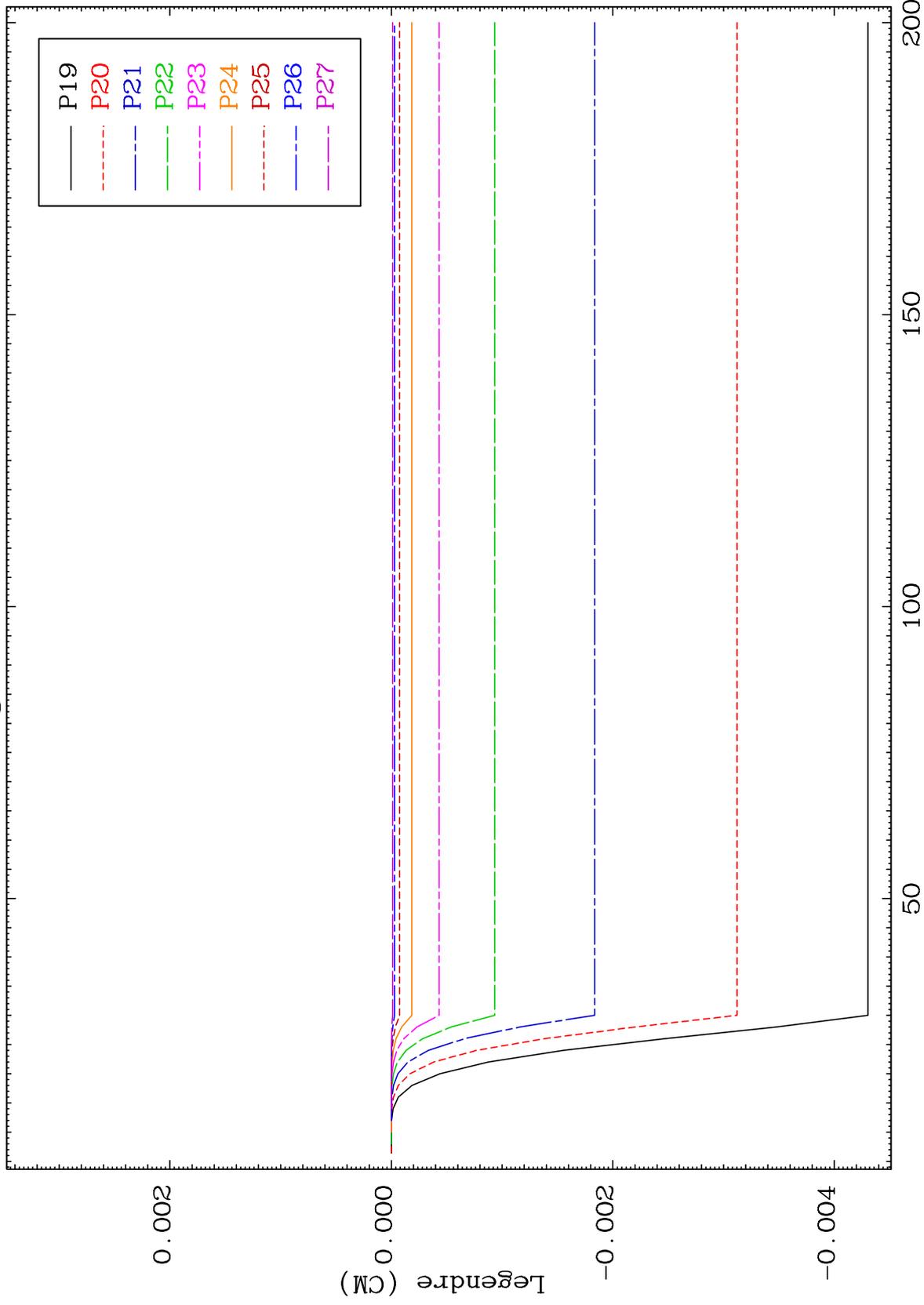
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

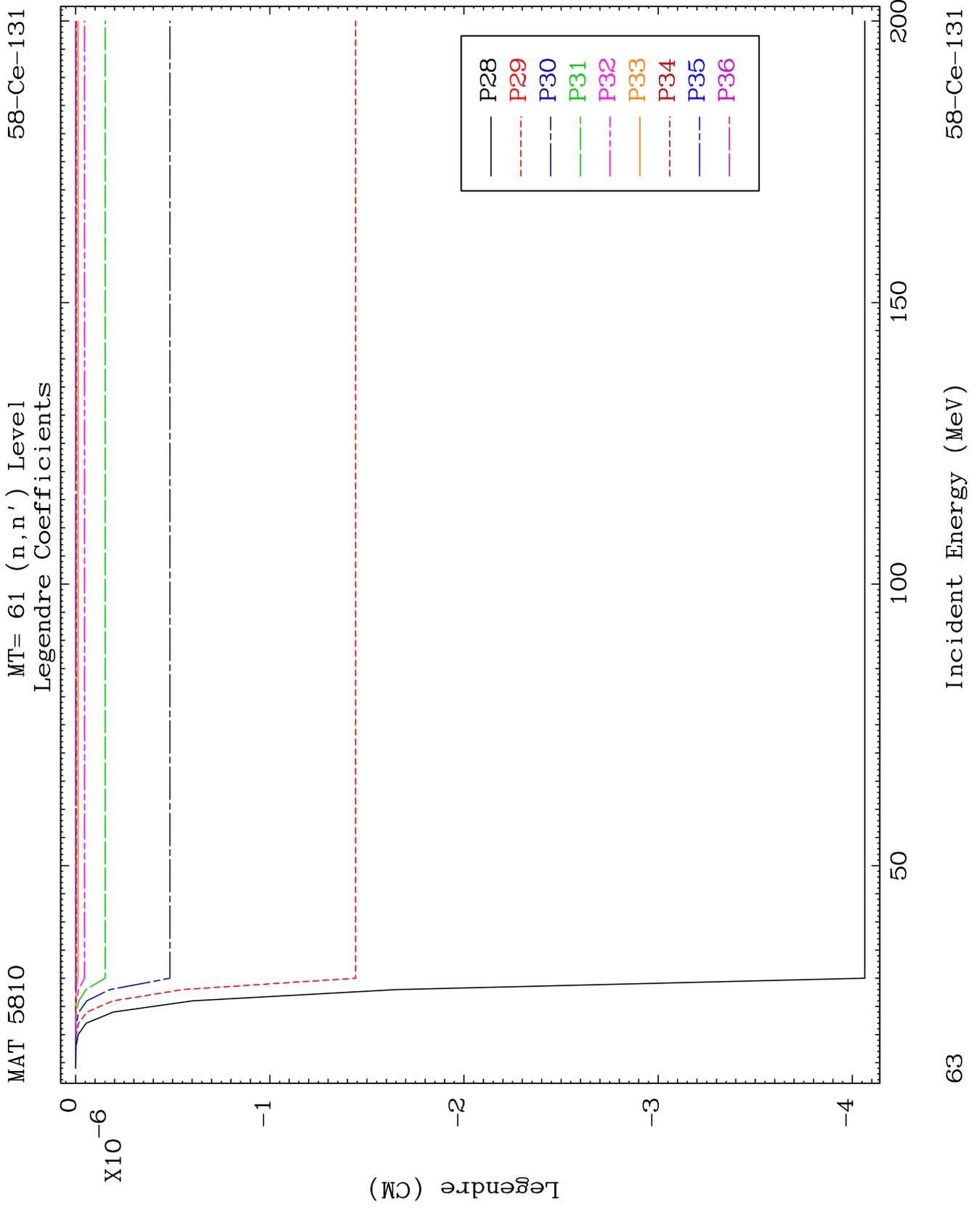
58-Ce-131



62

Incident Energy (MeV)

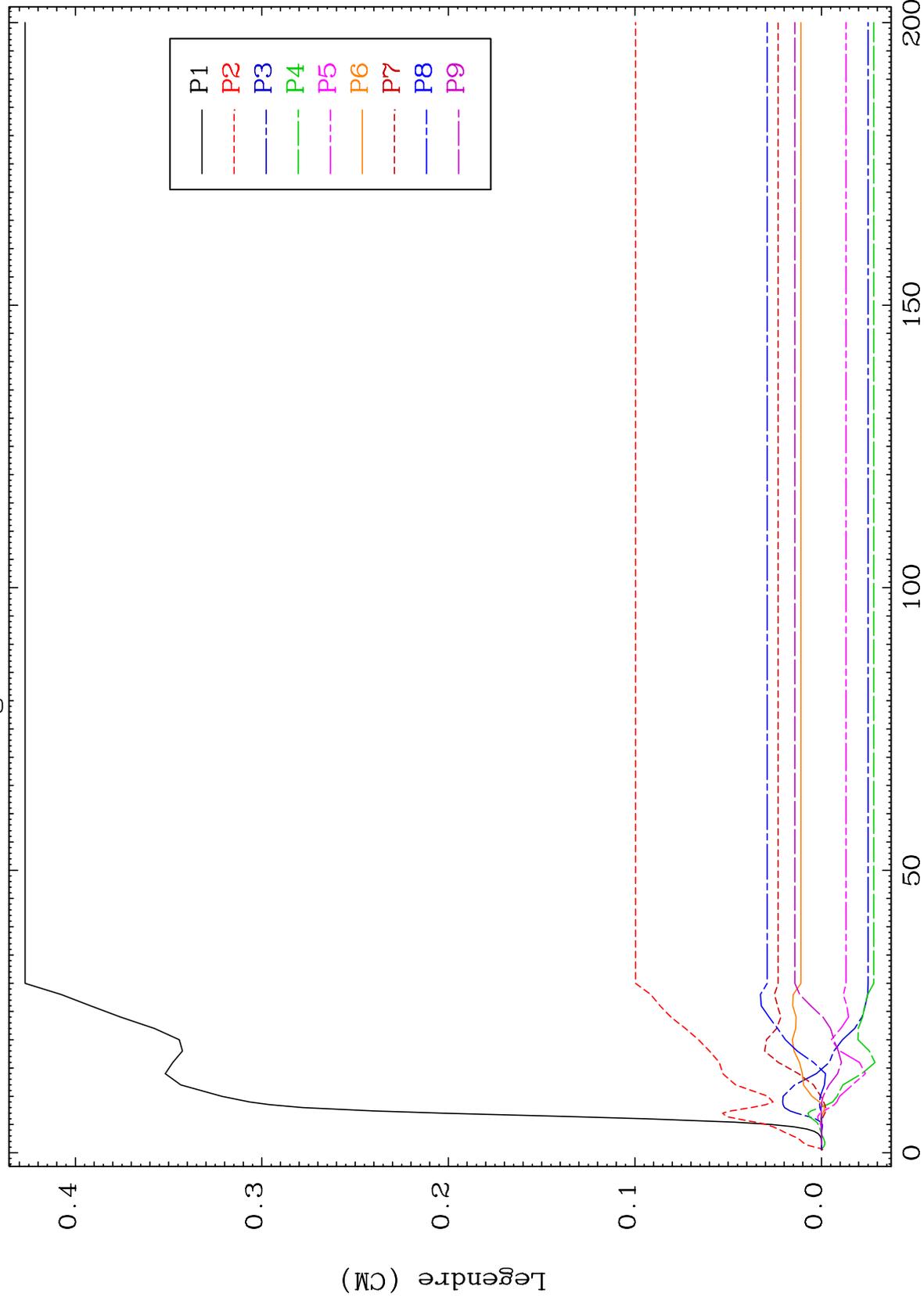
58-Ce-131



MAT 5810

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

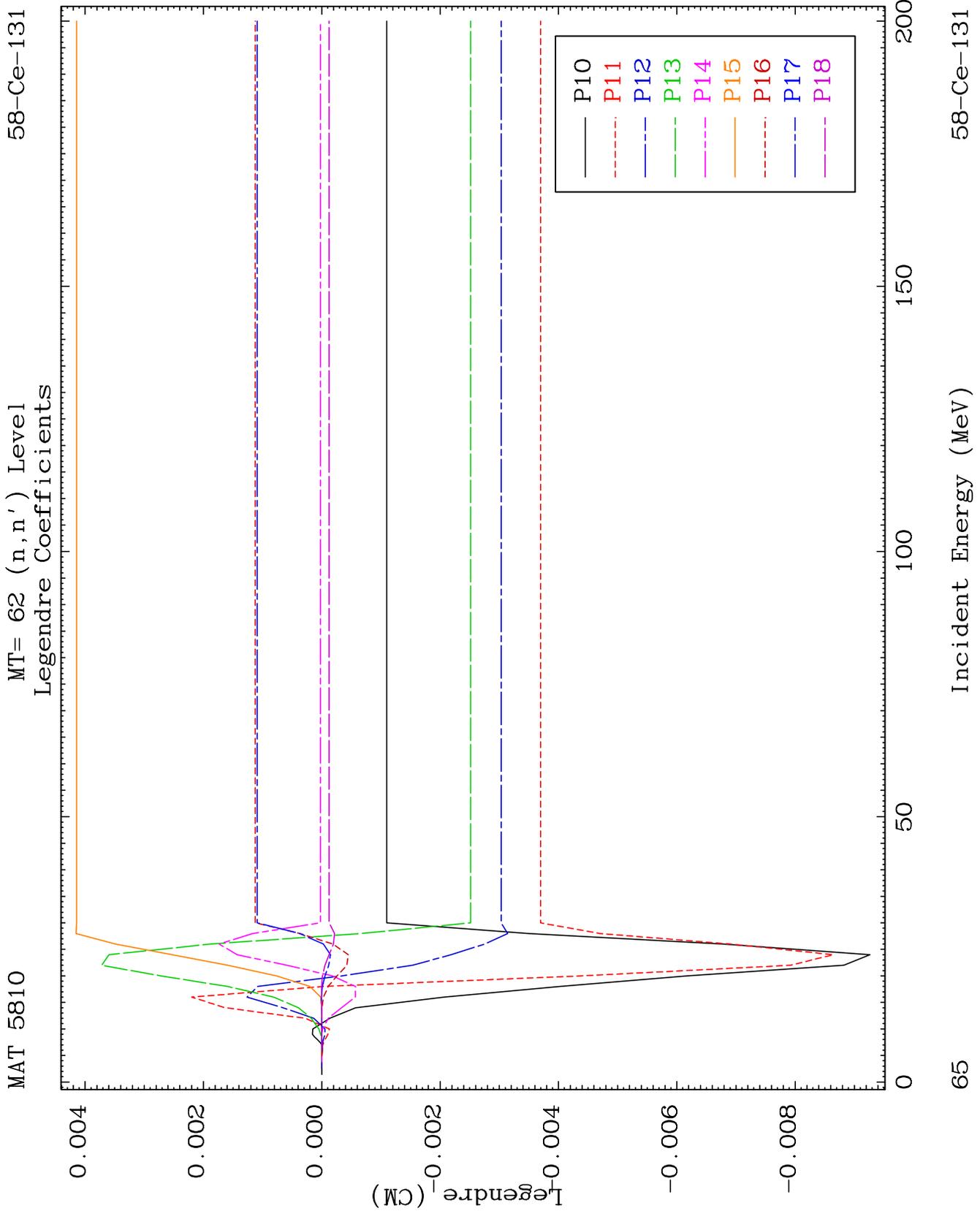
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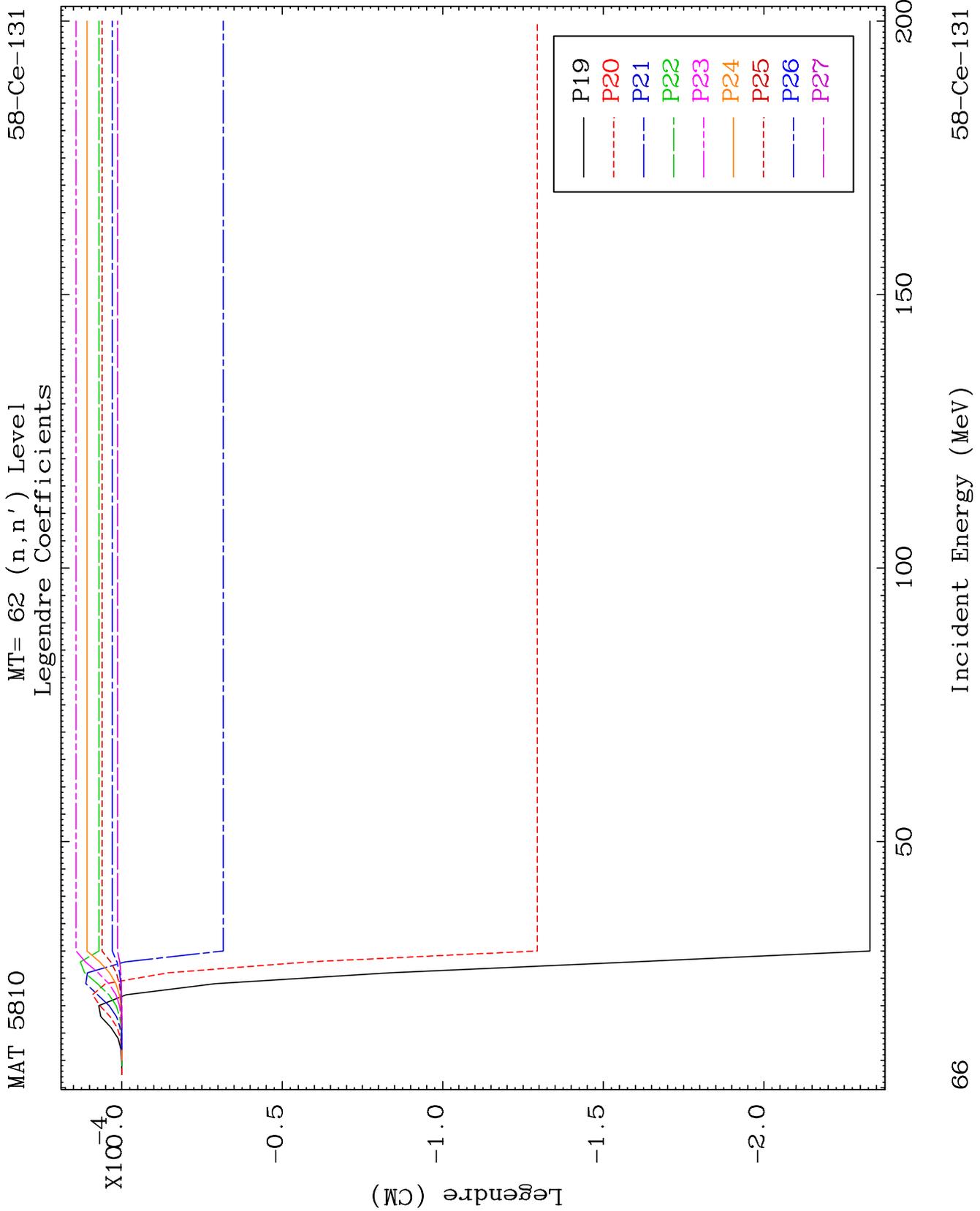


64

Incident Energy (MeV)

58-Ce-131

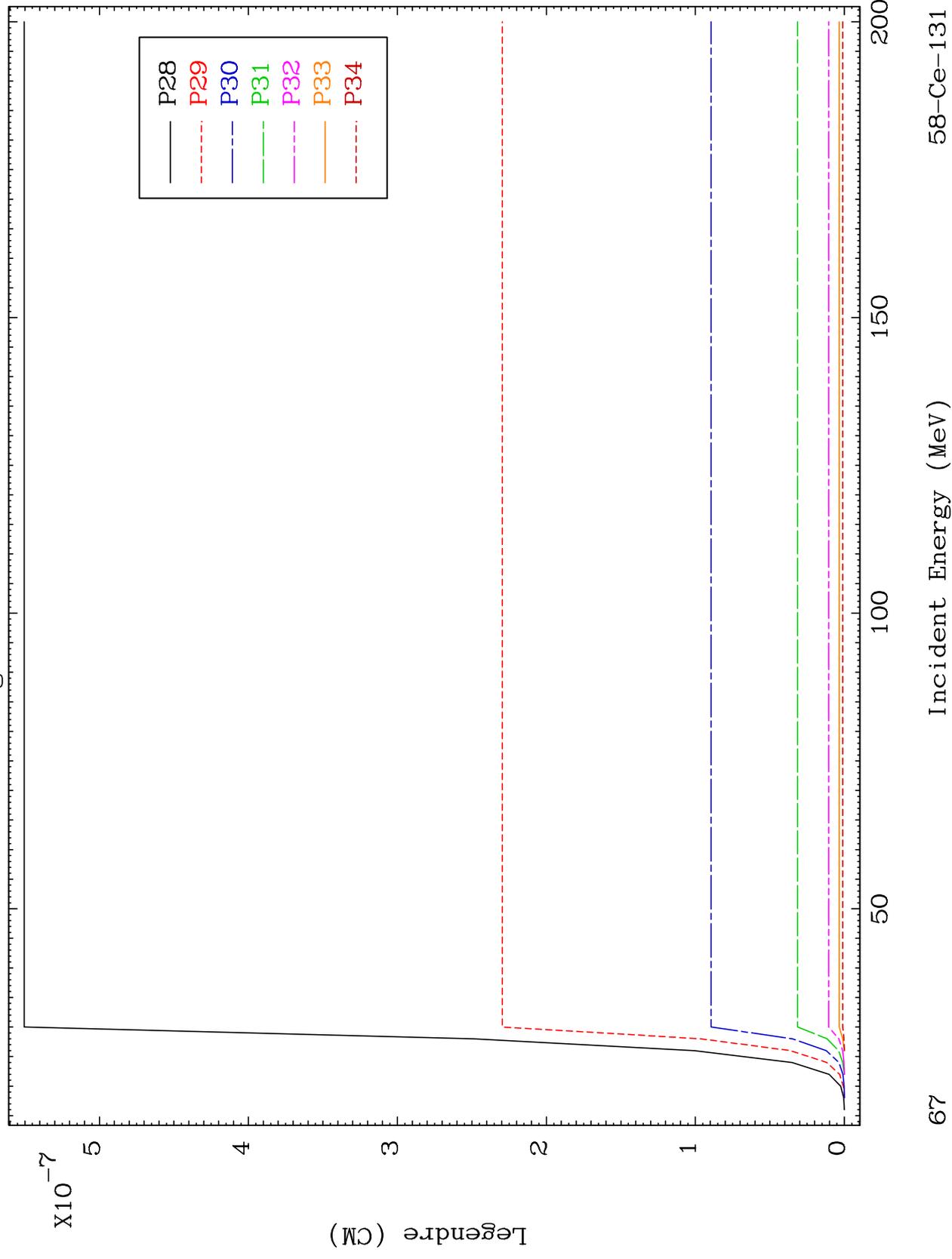




MAT 5810

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

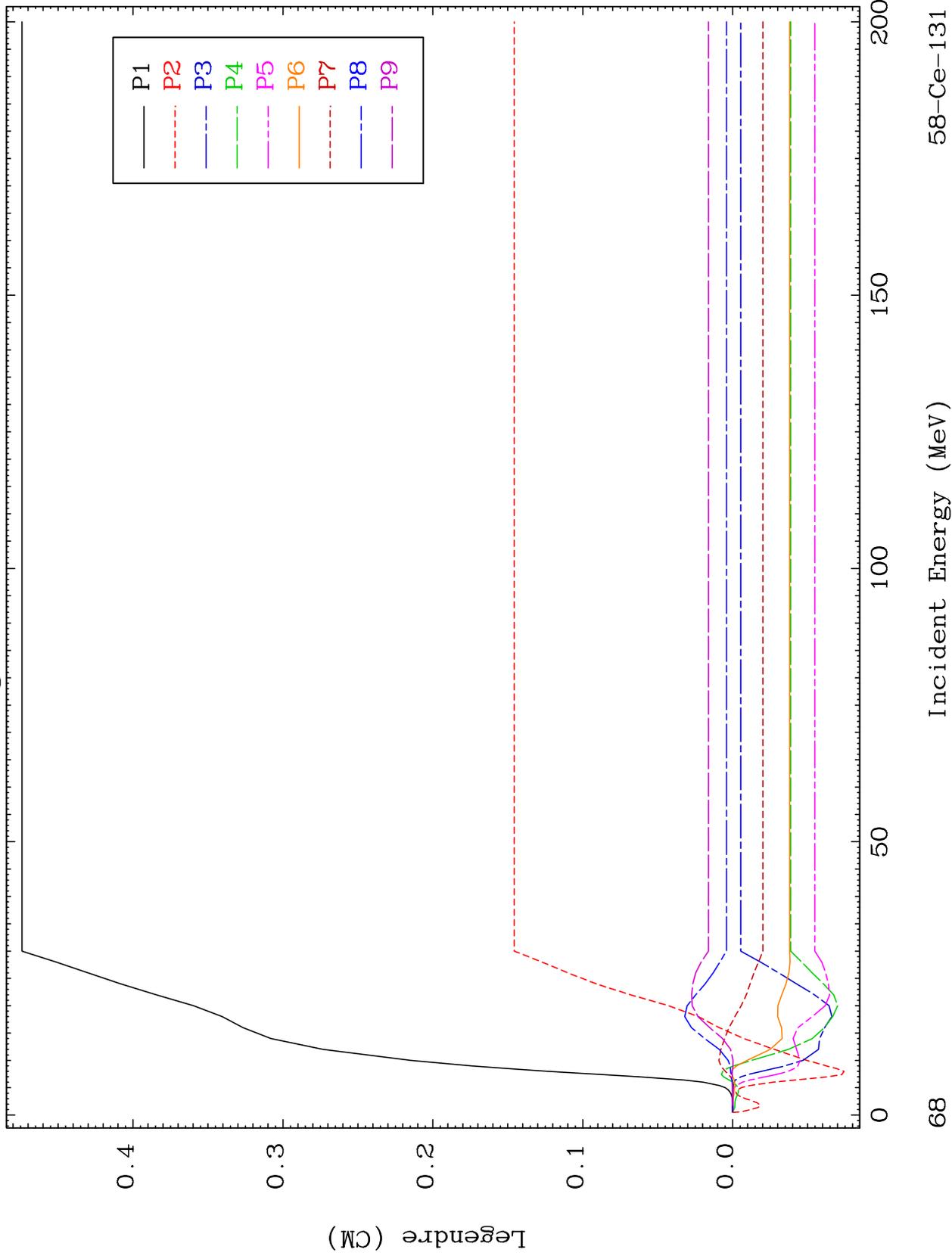
58-Ce-131



MAT 5810

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

58-Ce-131



58-Ce-131

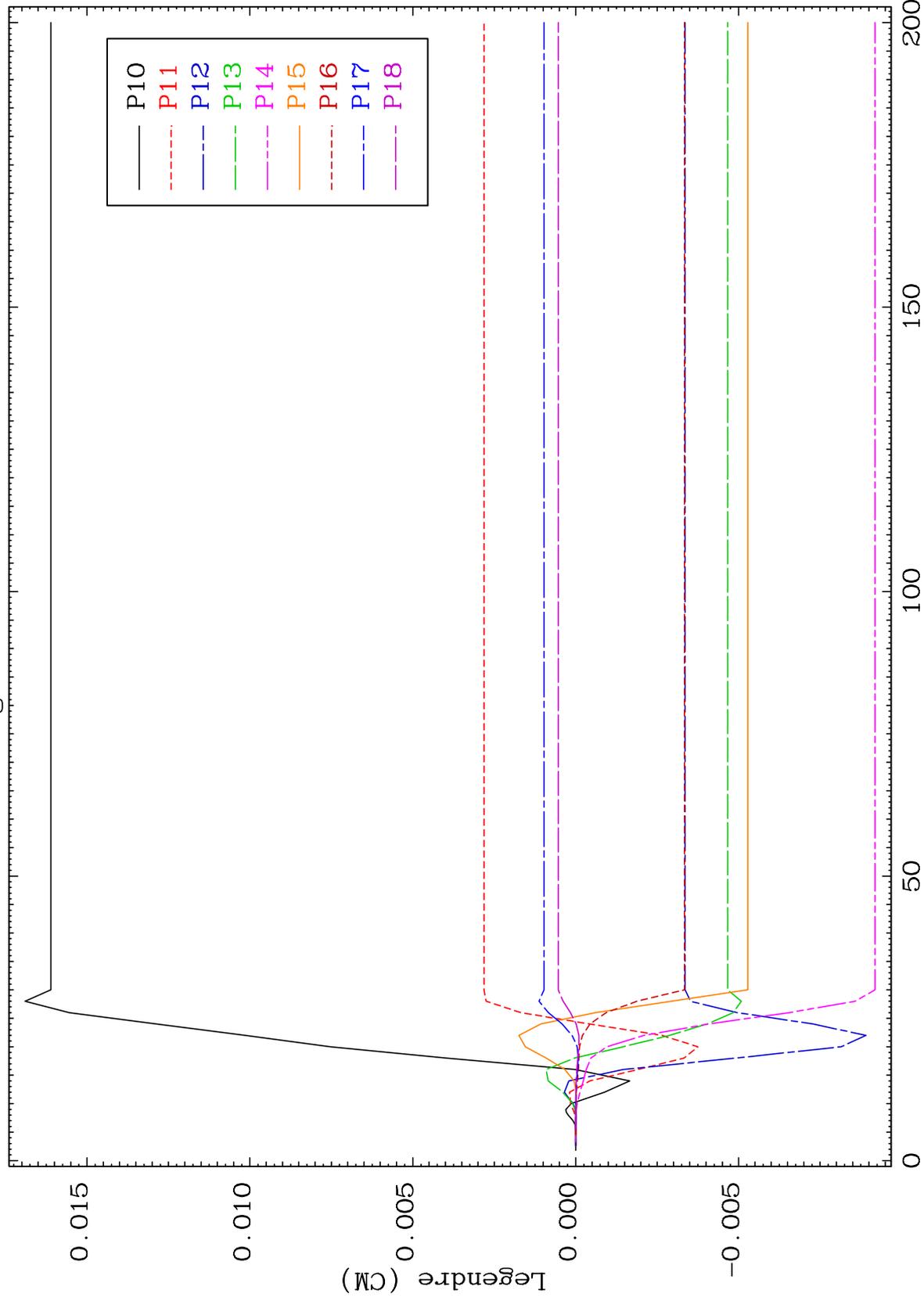
Incident Energy (MeV)

68

MAT 5810

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

58-Ce-131



69

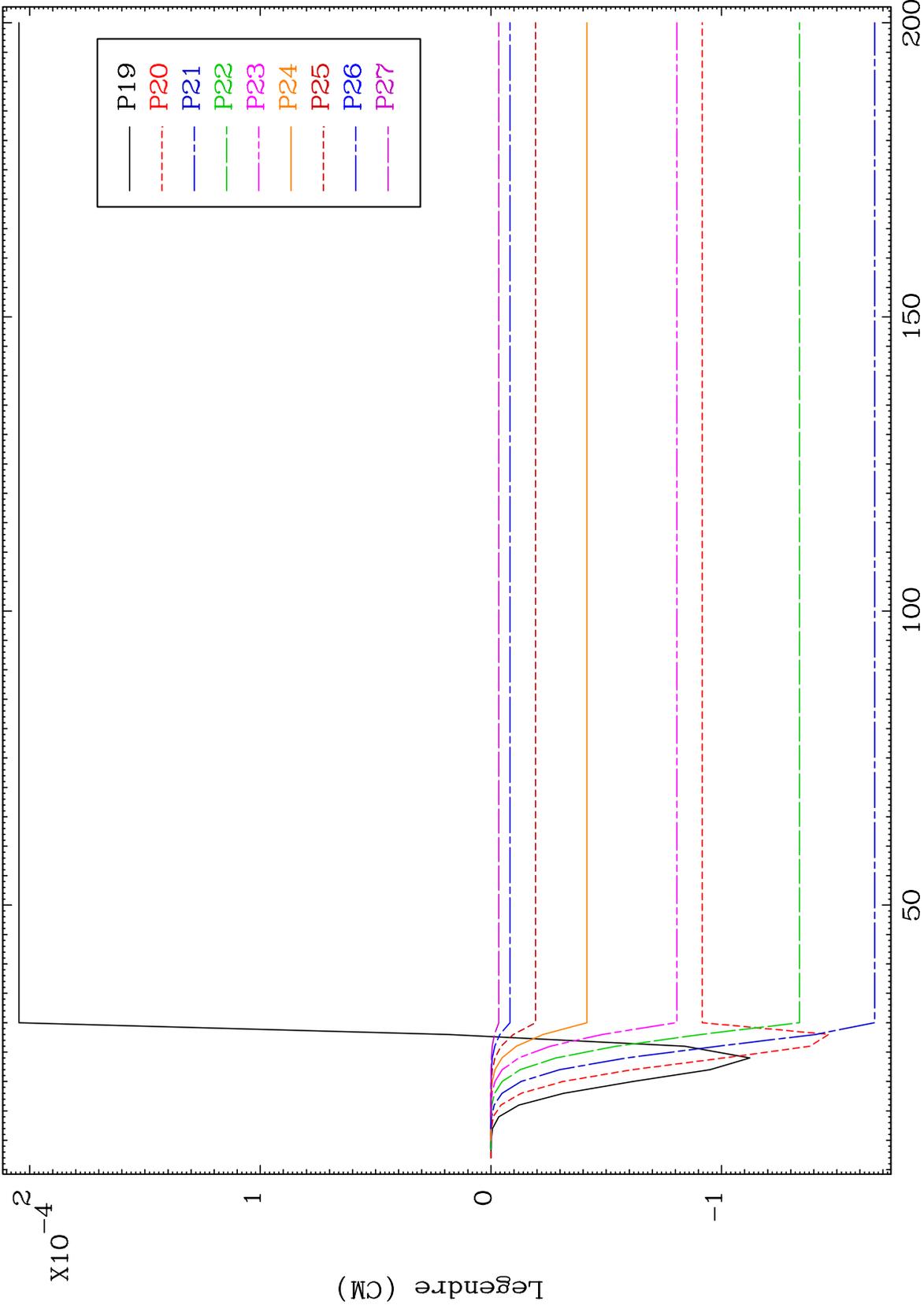
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

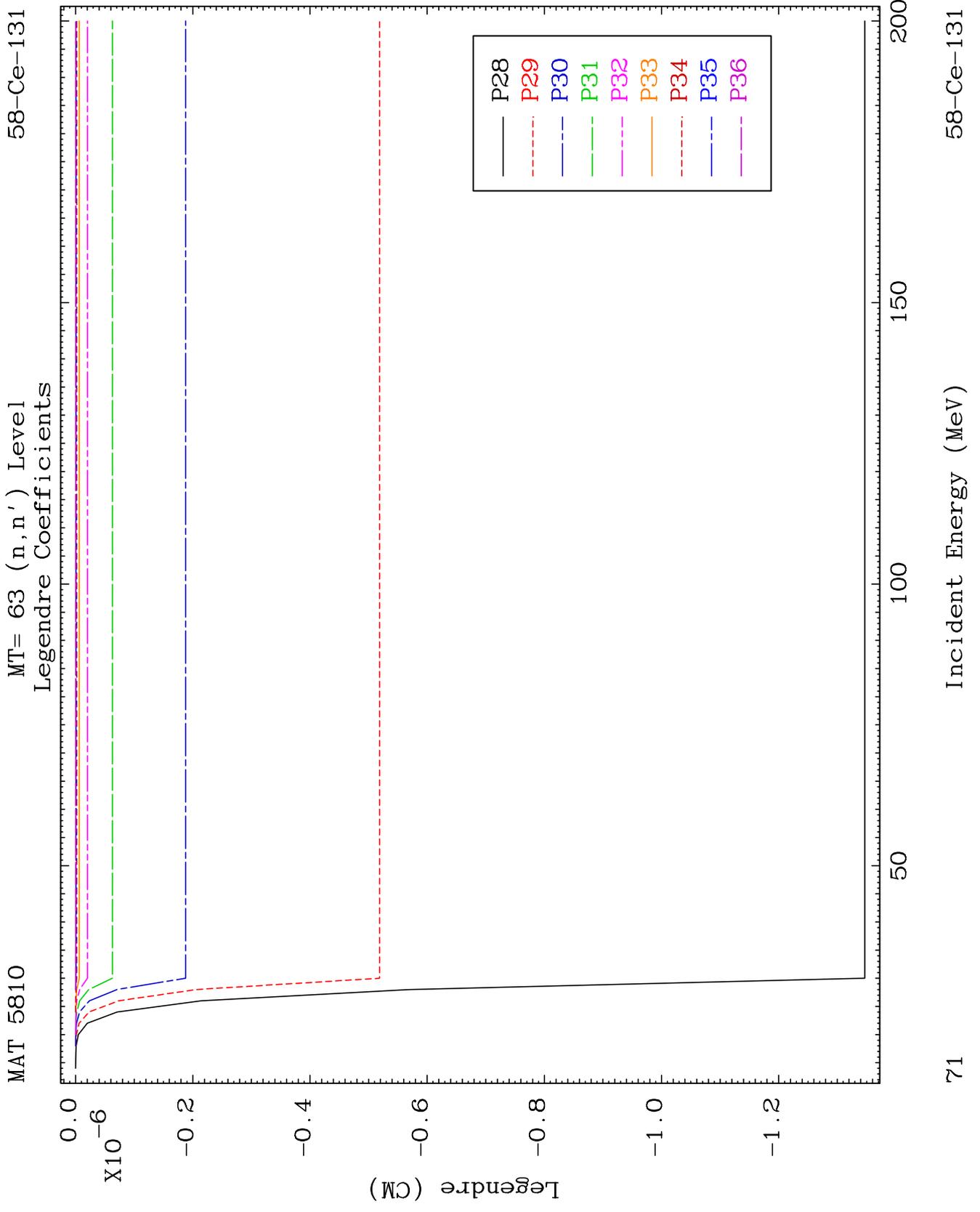
58-Ce-131



70

Incident Energy (MeV)

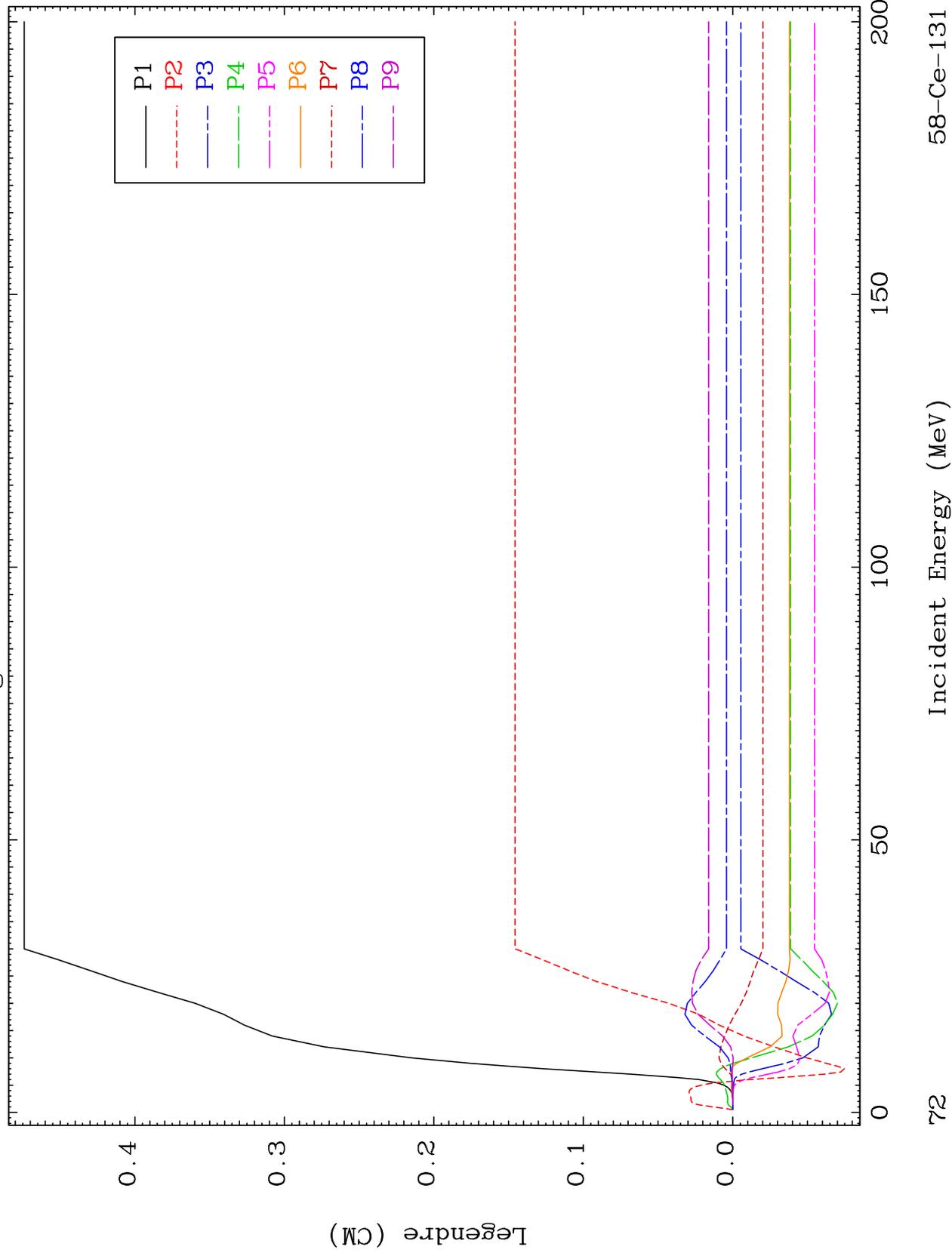
58-Ce-131



MAT 5810

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

58-Ce-131



58-Ce-131

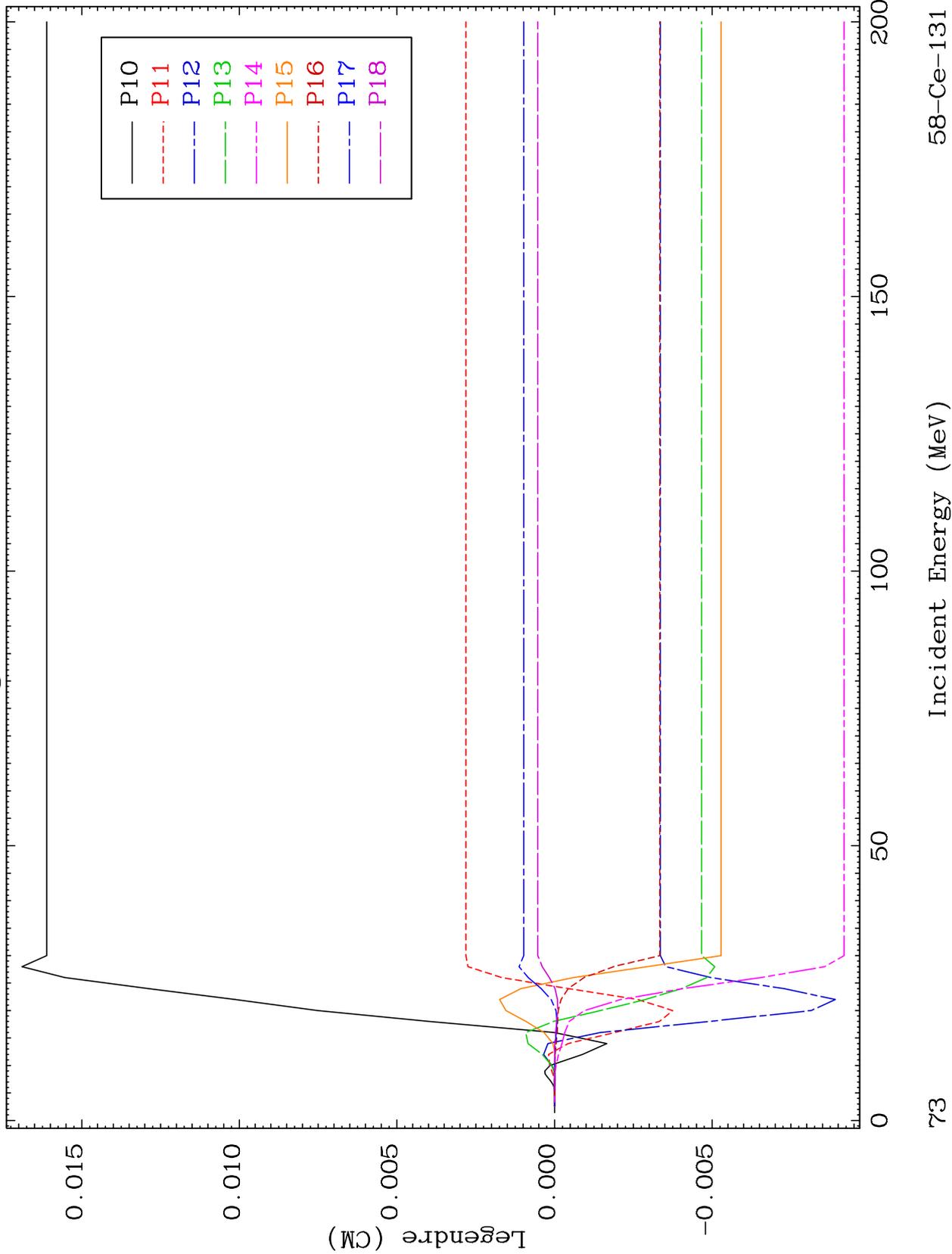
Incident Energy (MeV)

72

MAT 5810

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

58-Ce-131



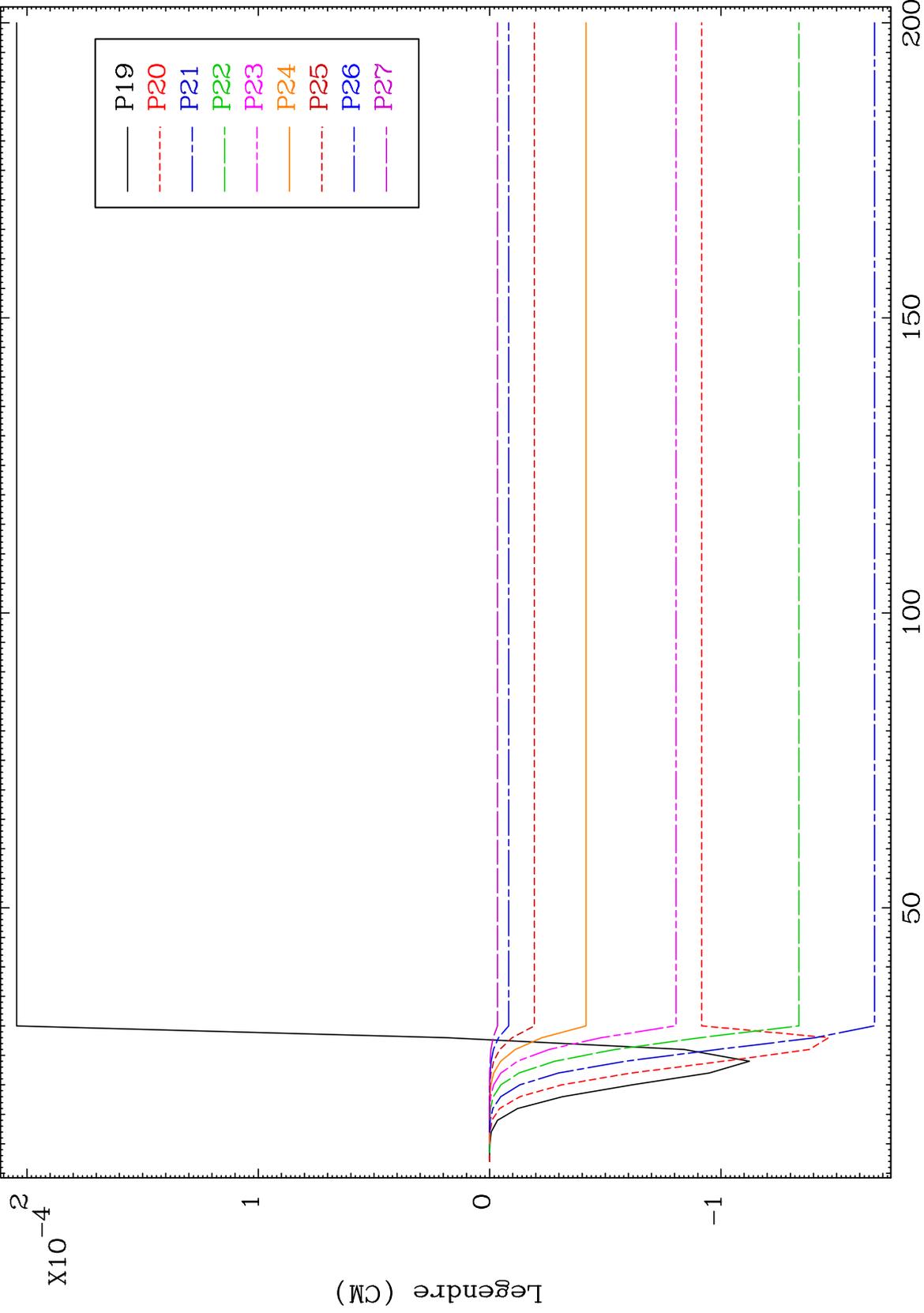
73

58-Ce-131

MAT 5810

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

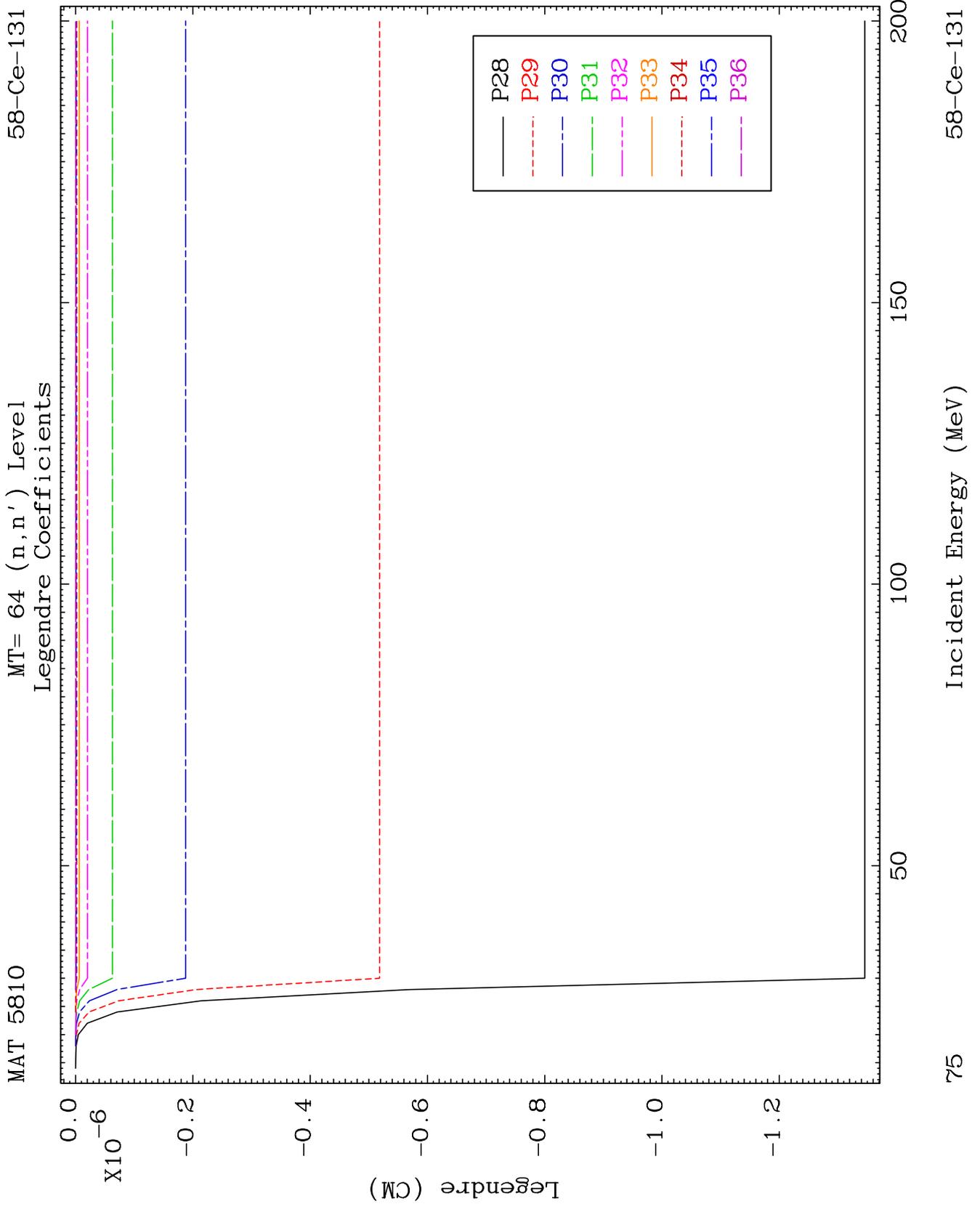
58-Ce-131



74

Incident Energy (MeV)

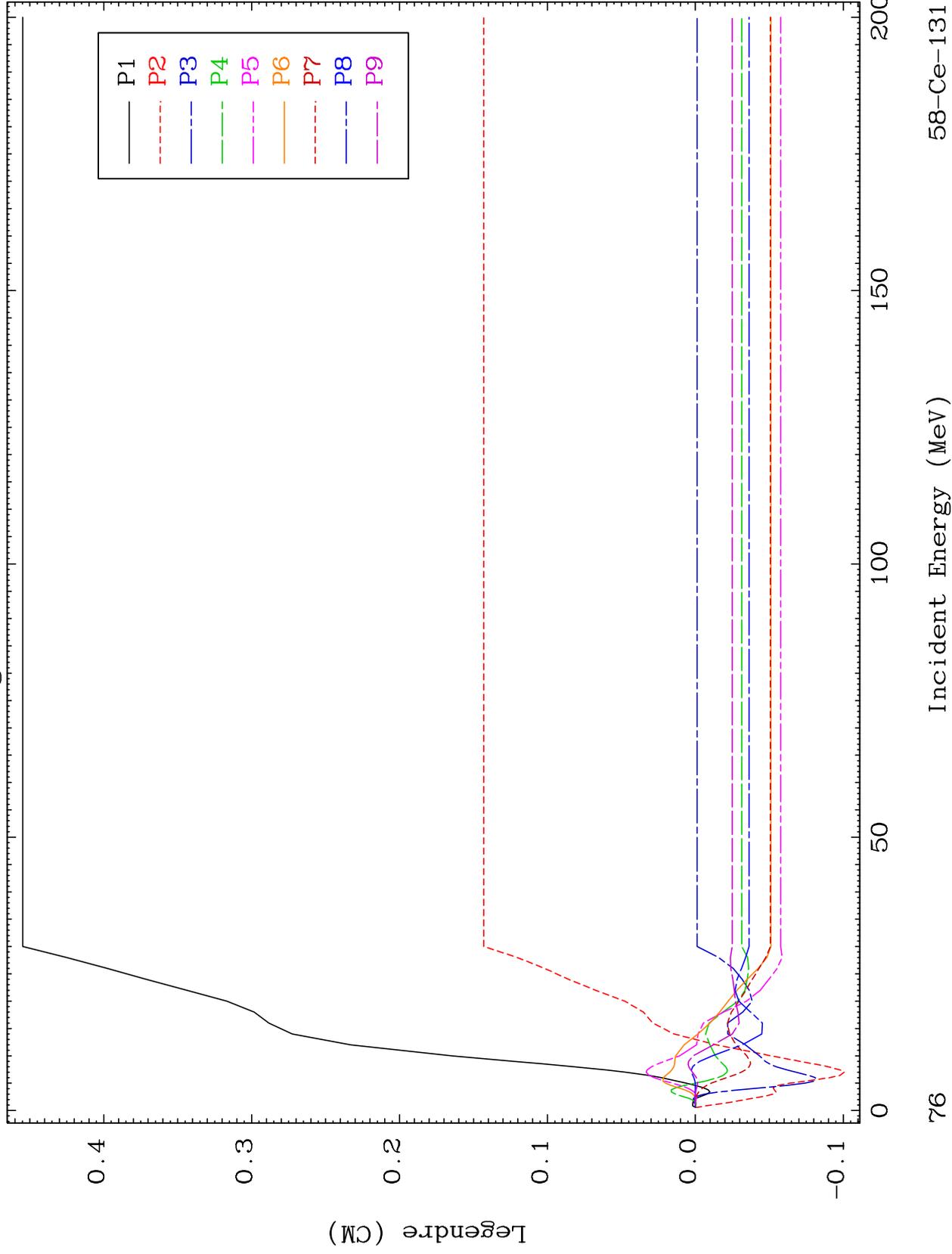
58-Ce-131



MAT 5810

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

58-Ce-131



58-Ce-131

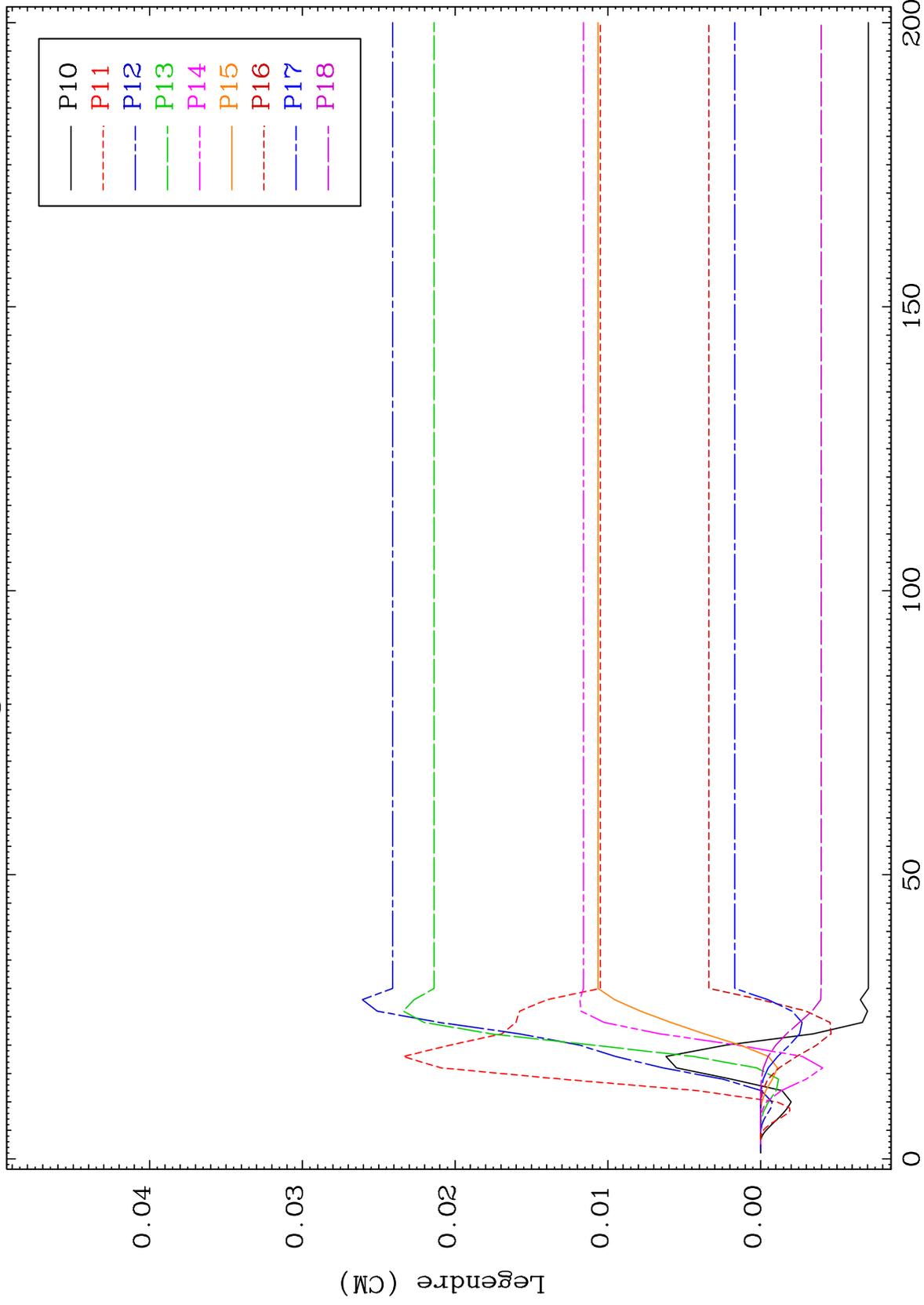
Incident Energy (MeV)

76

MAT 5810

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

58-Ce-131



77

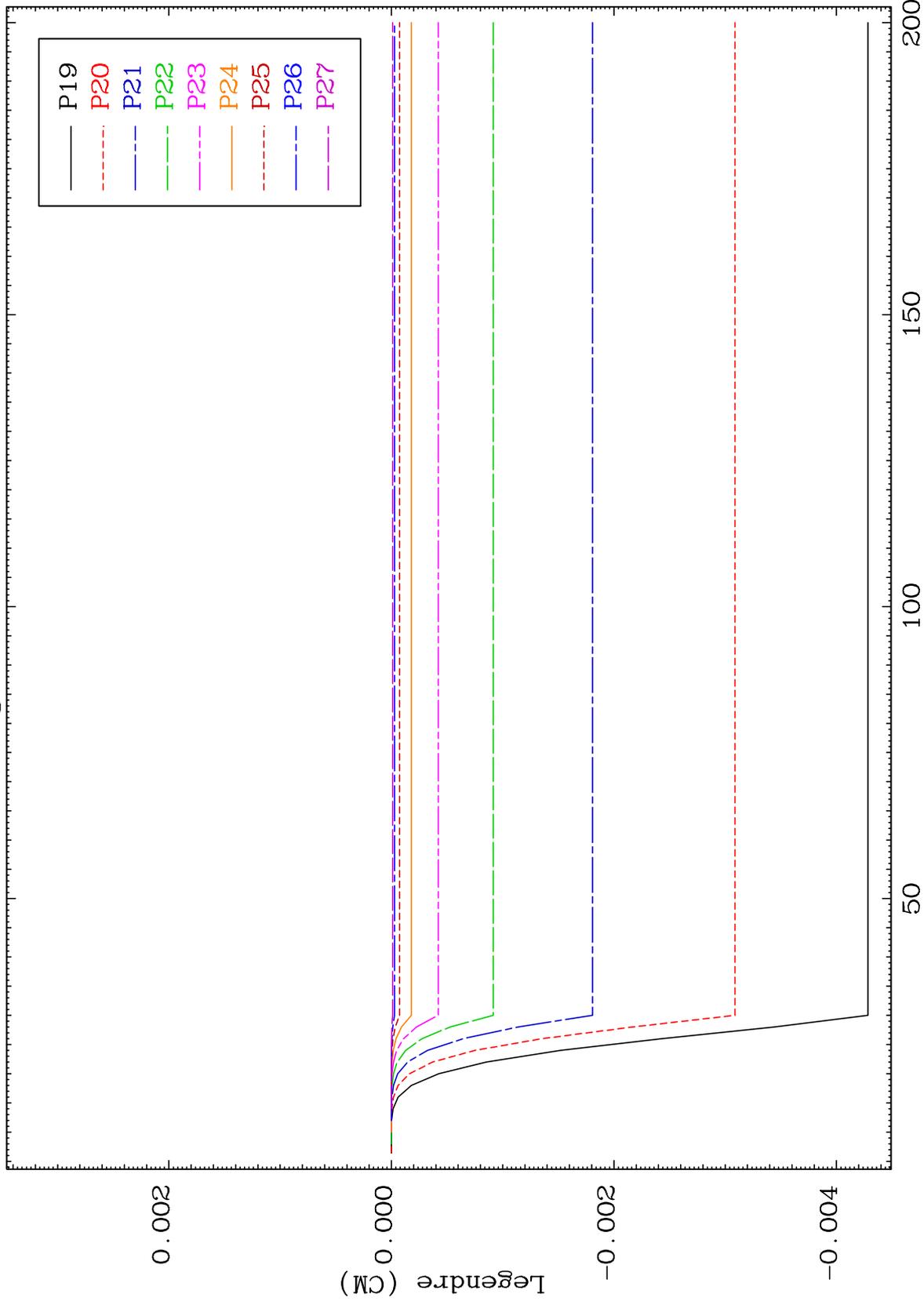
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

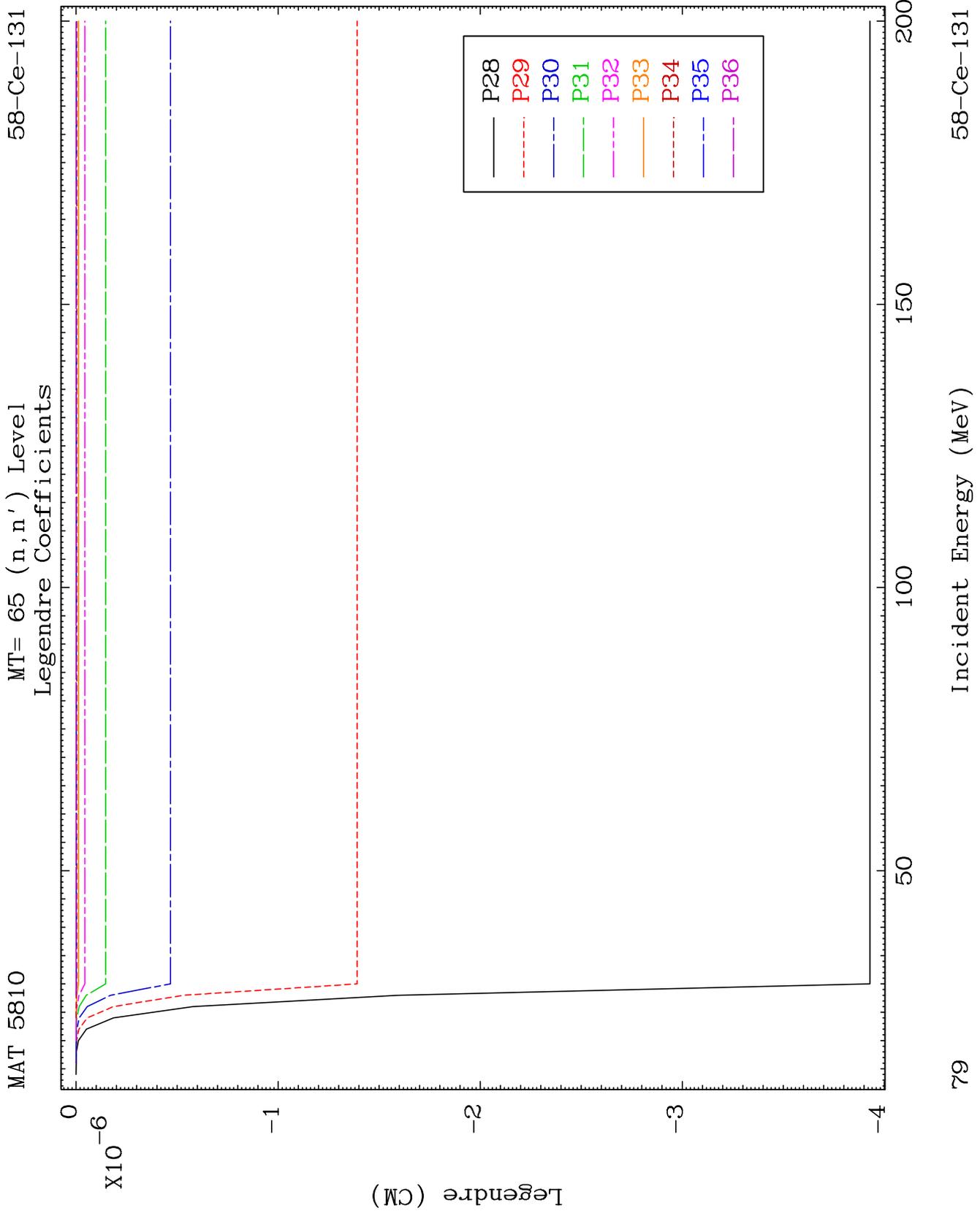
58-Ce-131



78

Incident Energy (MeV)

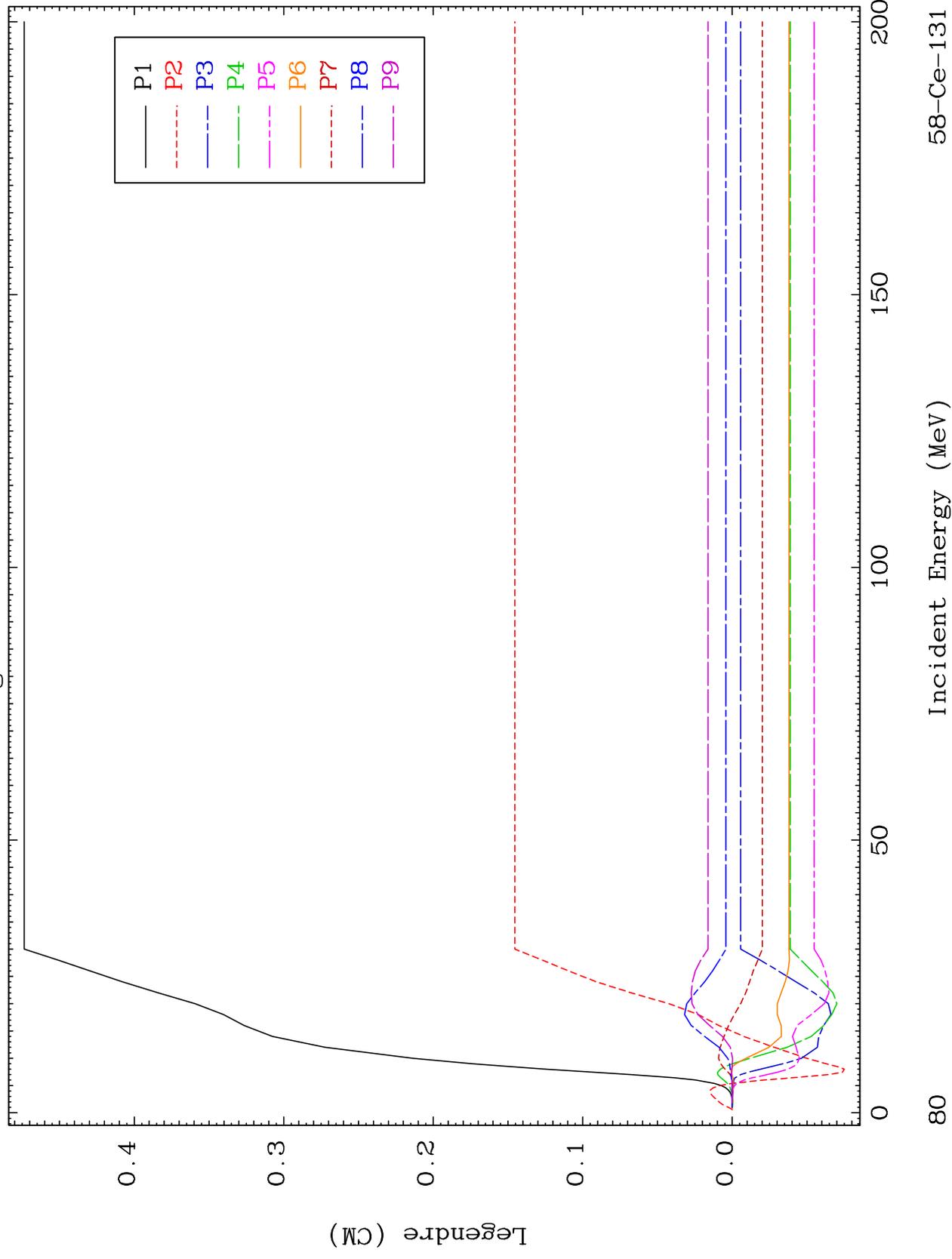
58-Ce-131



MAT 5810

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

58-Ce-131



58-Ce-131

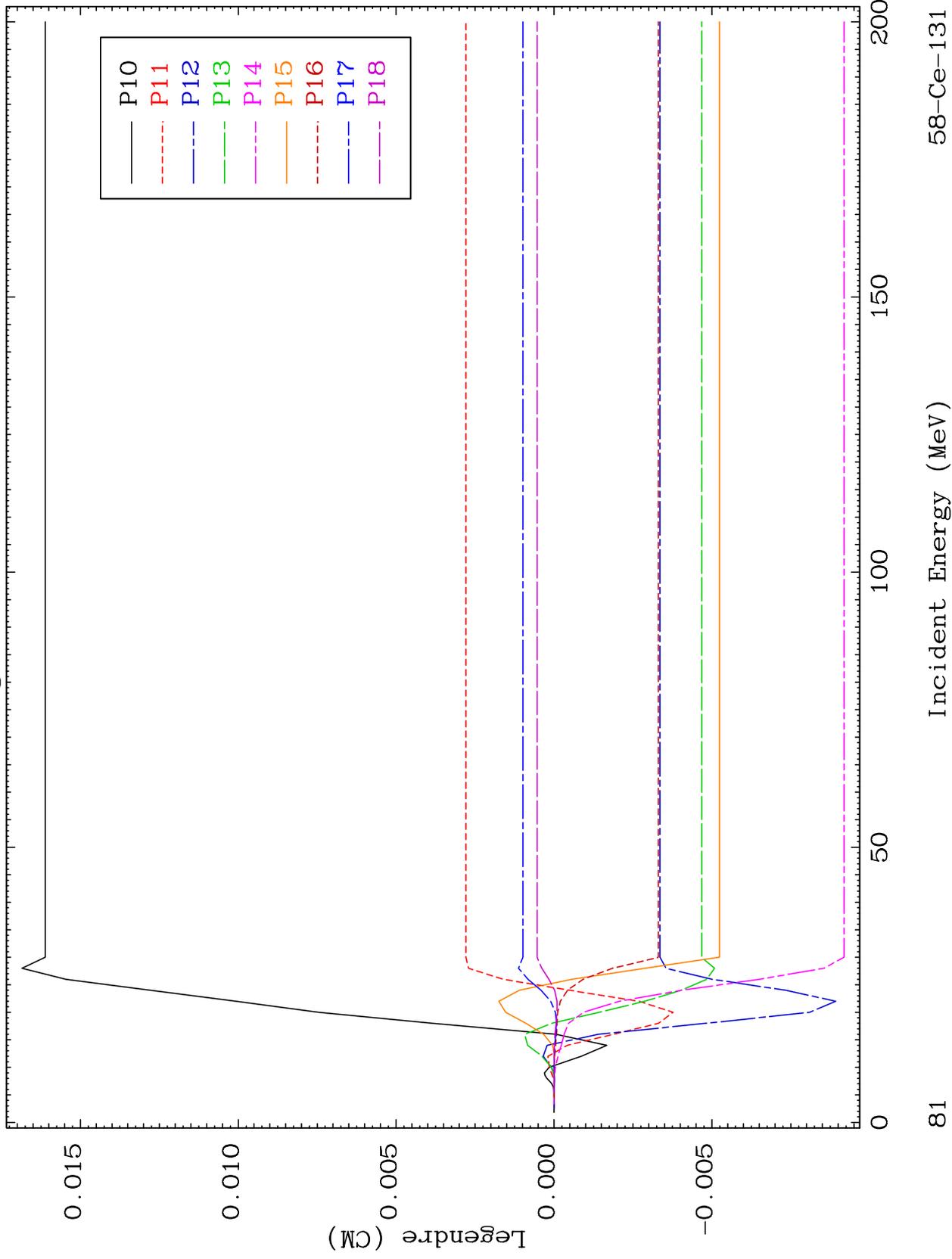
Incident Energy (MeV)

80

MAT 5810

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

58-Ce-131



81

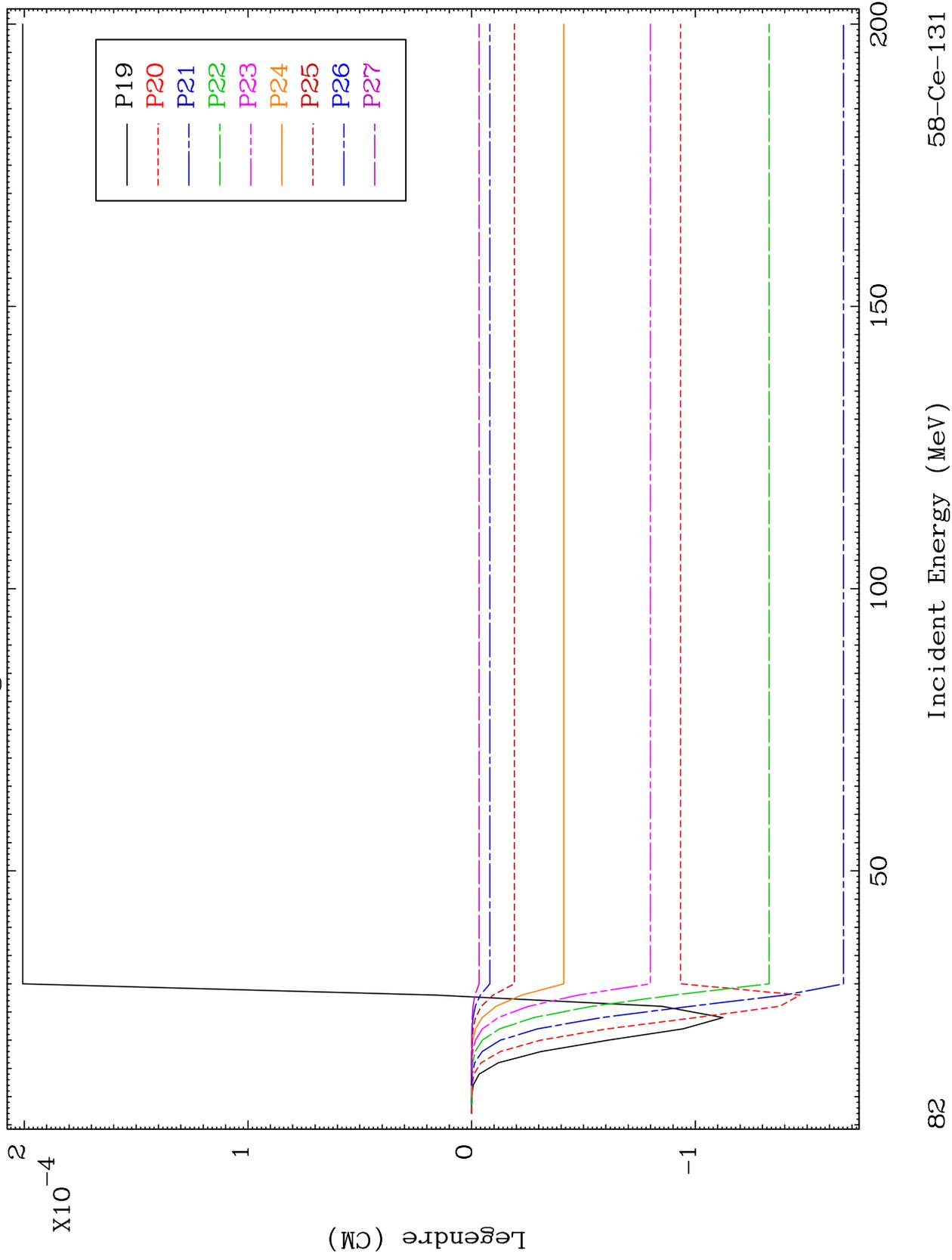
Incident Energy (MeV)

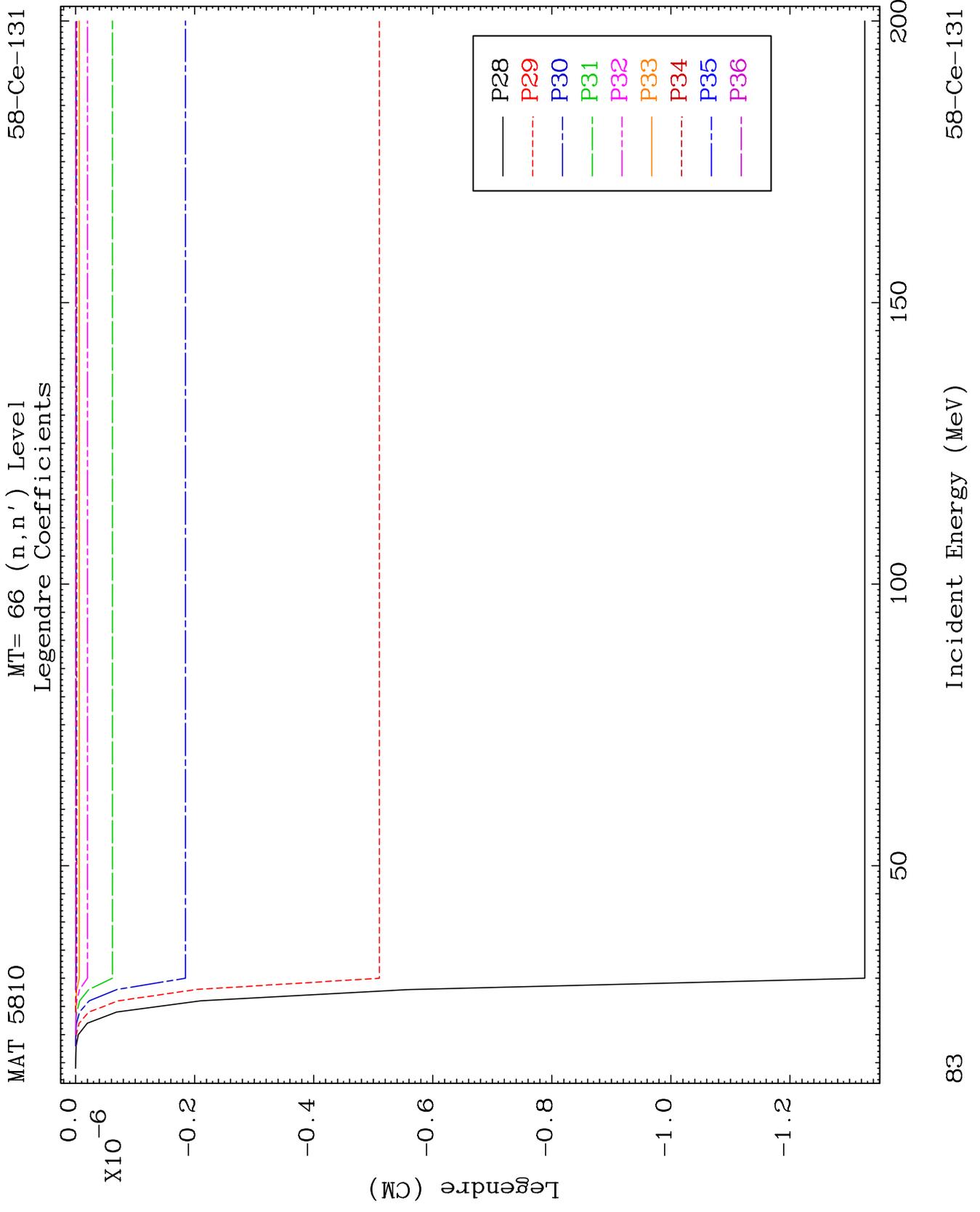
58-Ce-131

MAT 5810

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

58-Ce-131

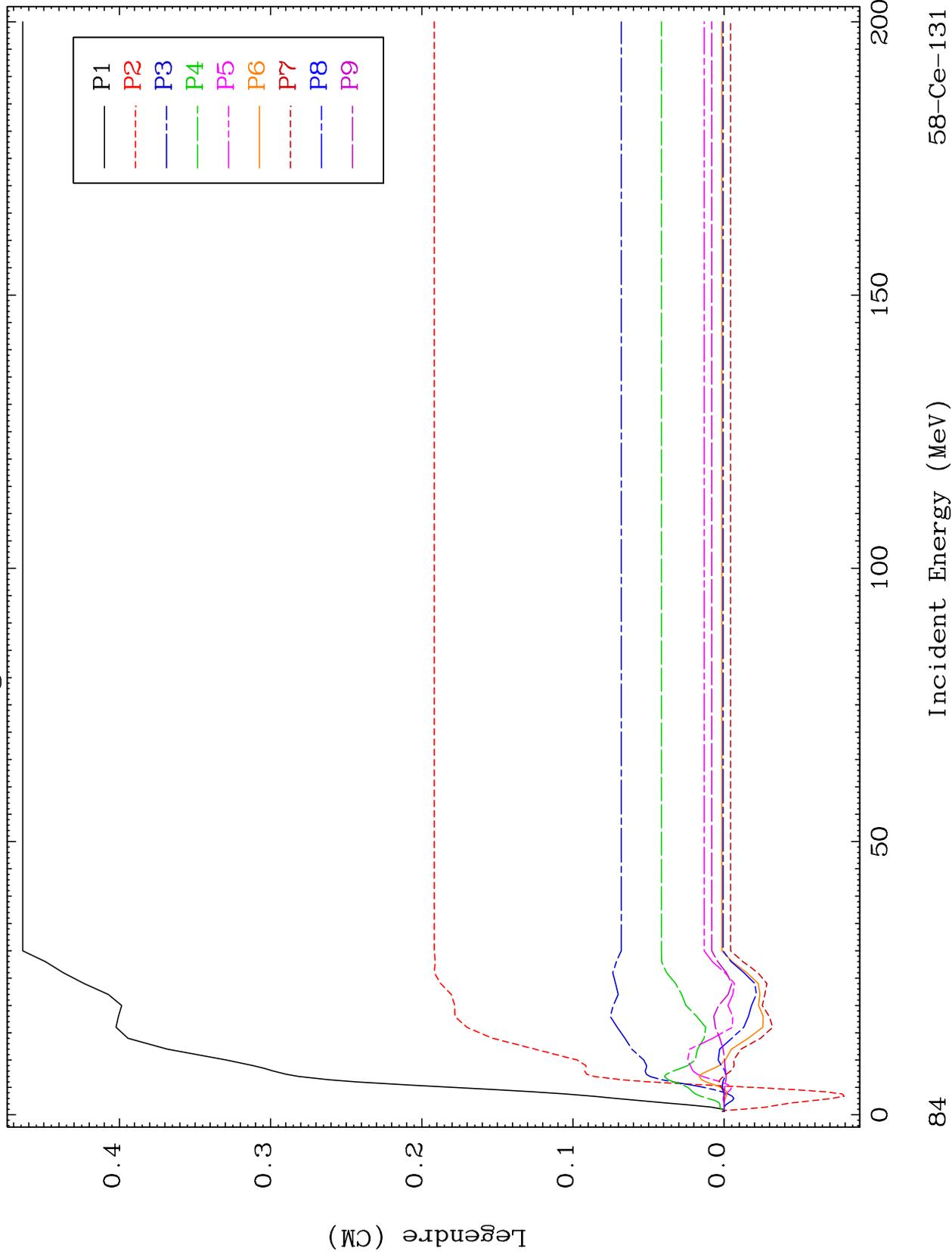




MAT 5810

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

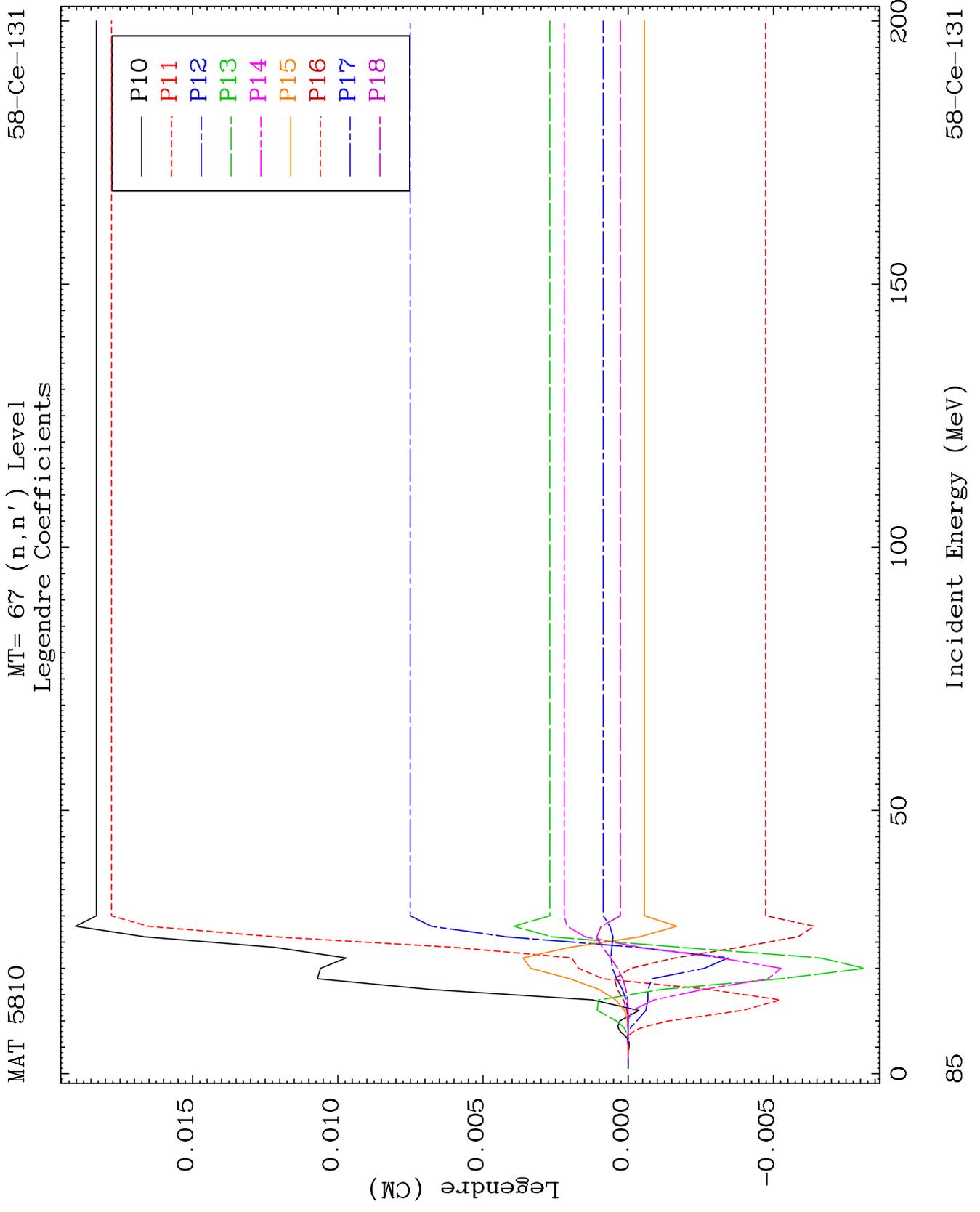
58-Ce-131



84

Incident Energy (MeV)

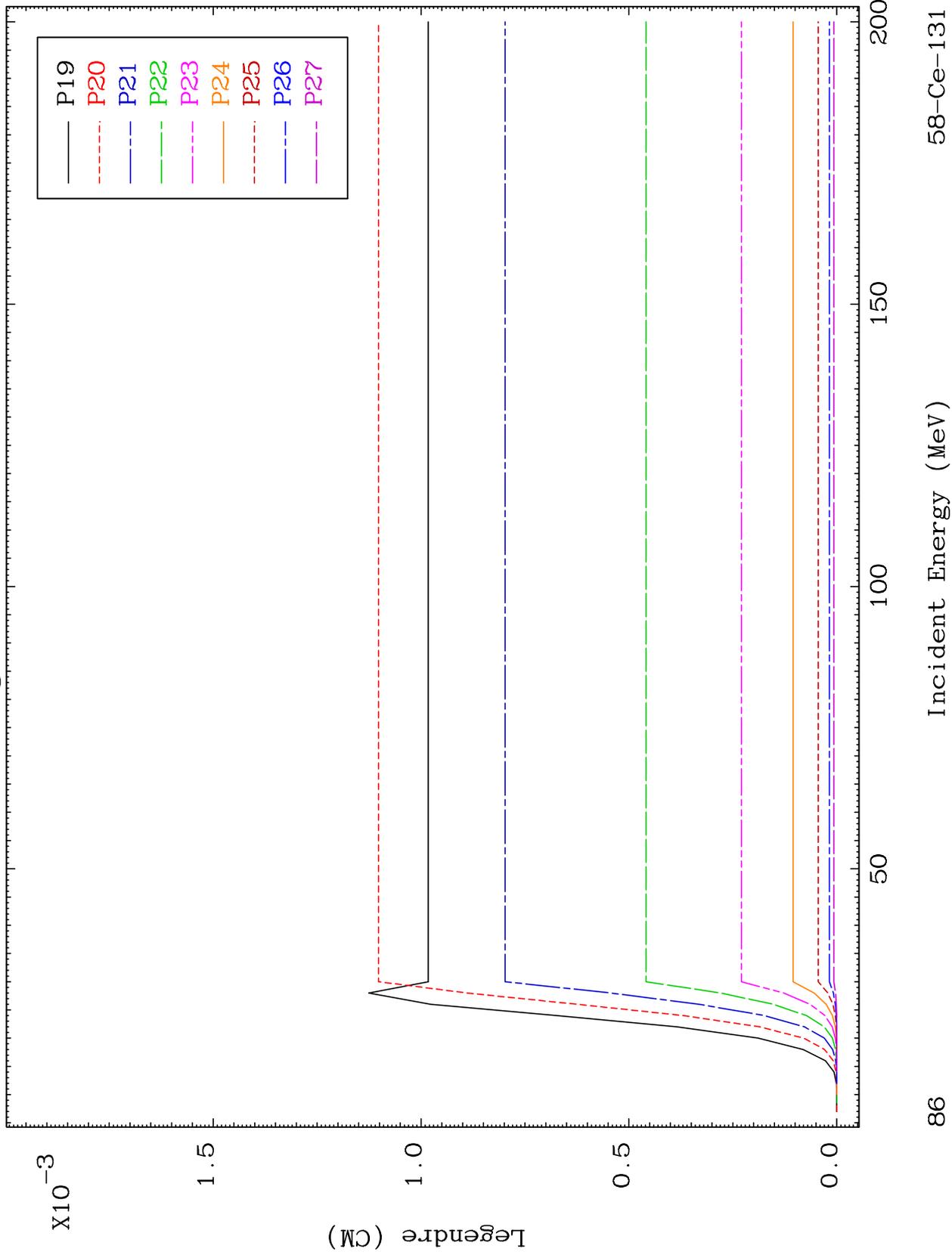
58-Ce-131



MAT 5810

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

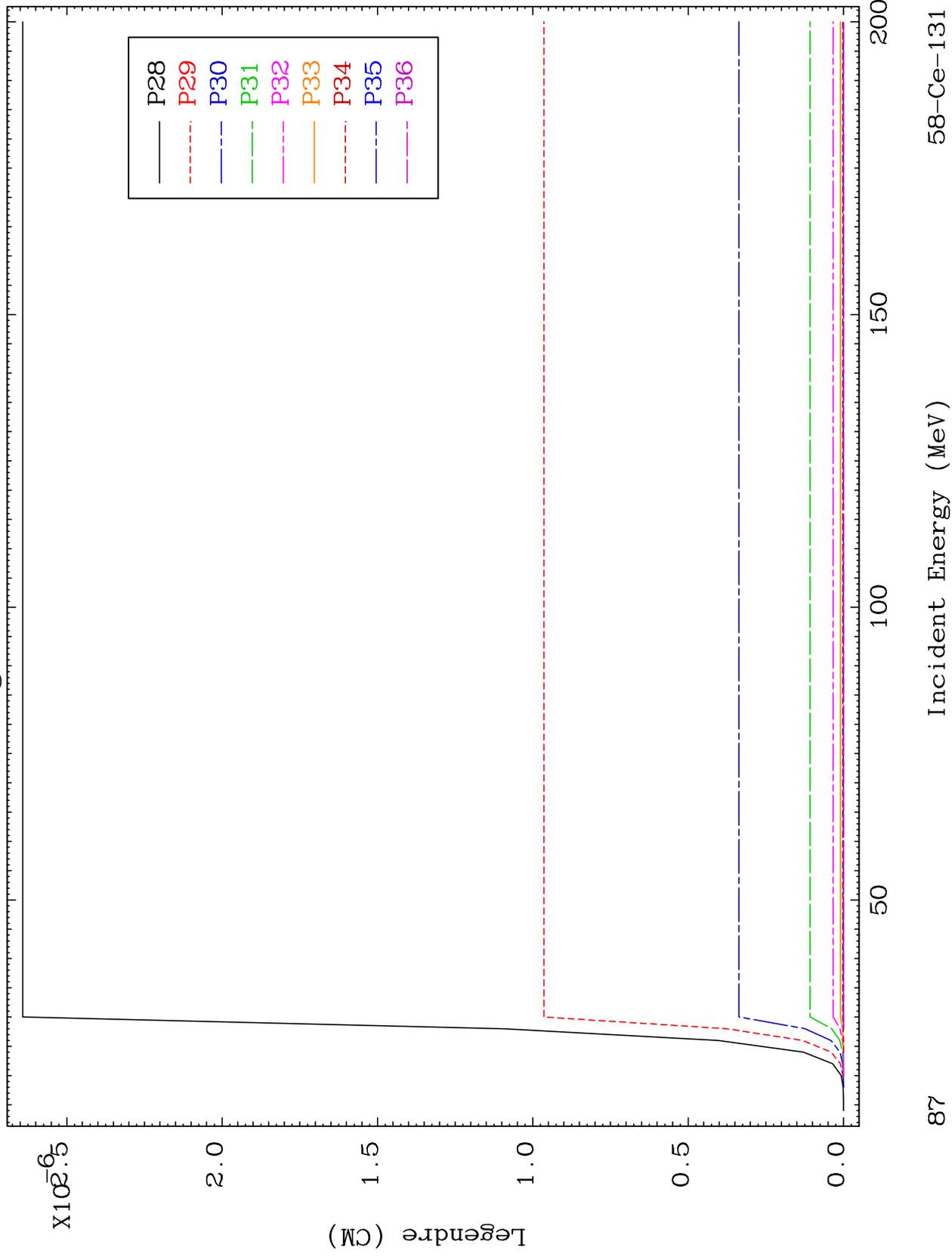
58-Ce-131



MAT 5810

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

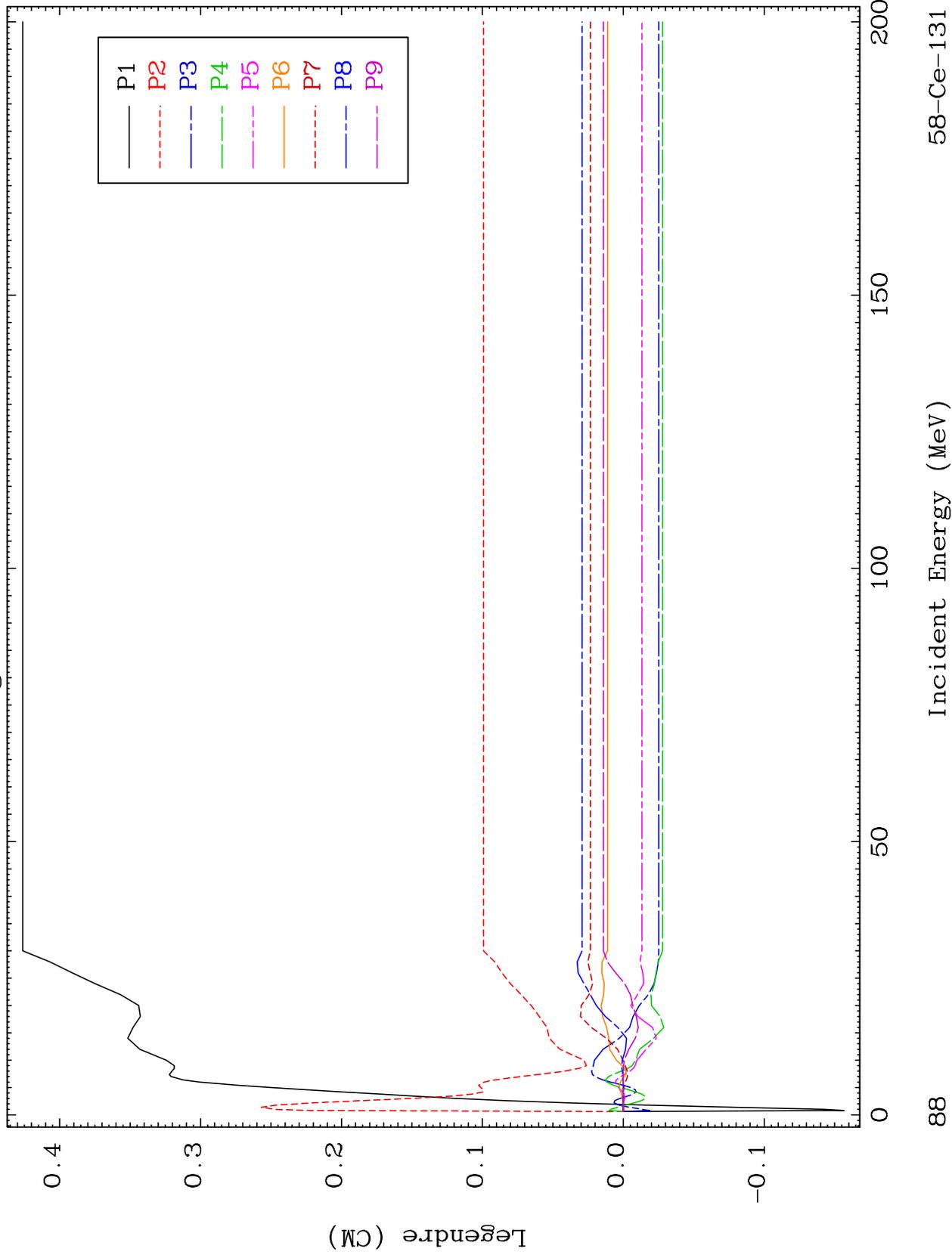
58-Ce-131



MAT 5810

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

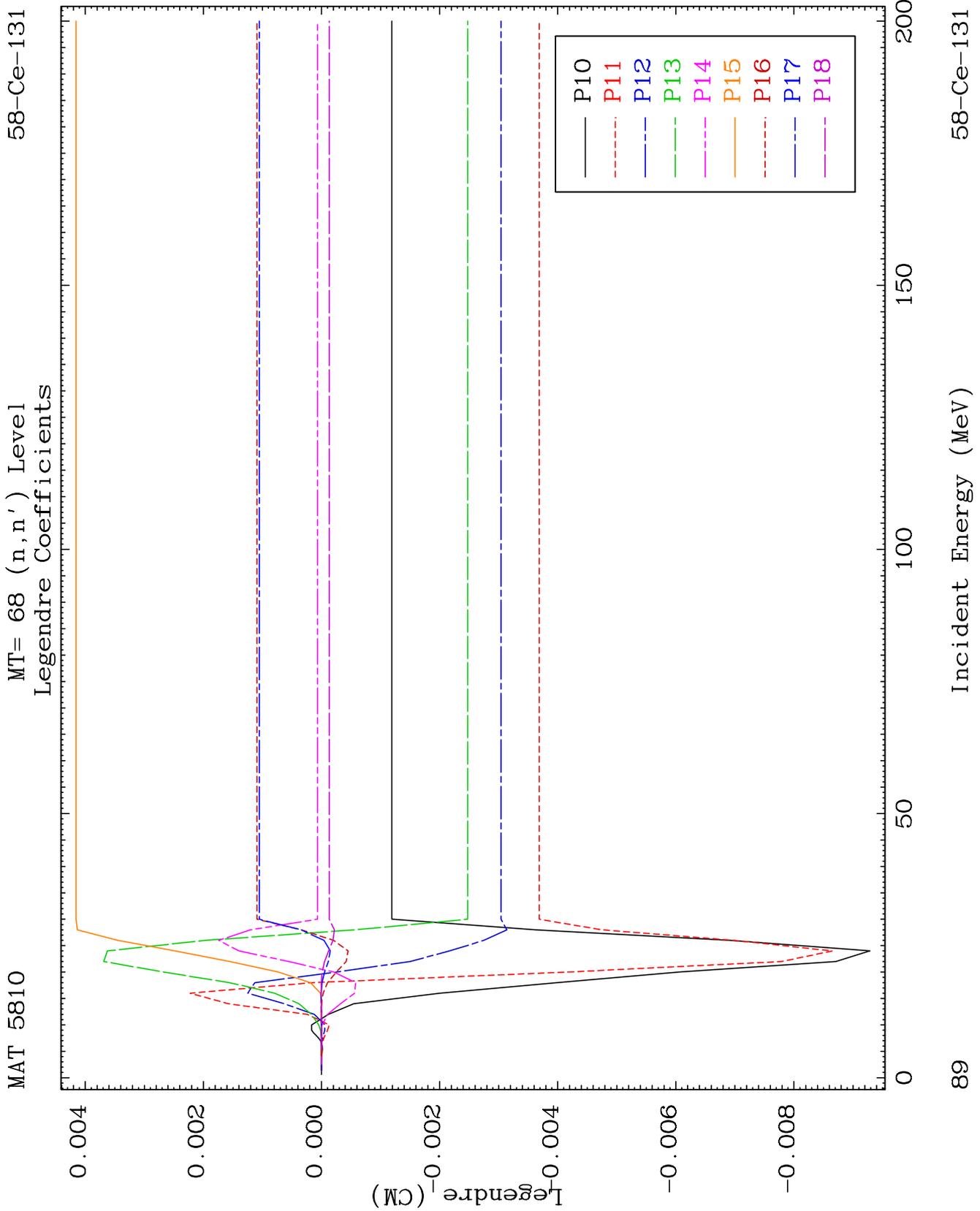
58-Ce-131

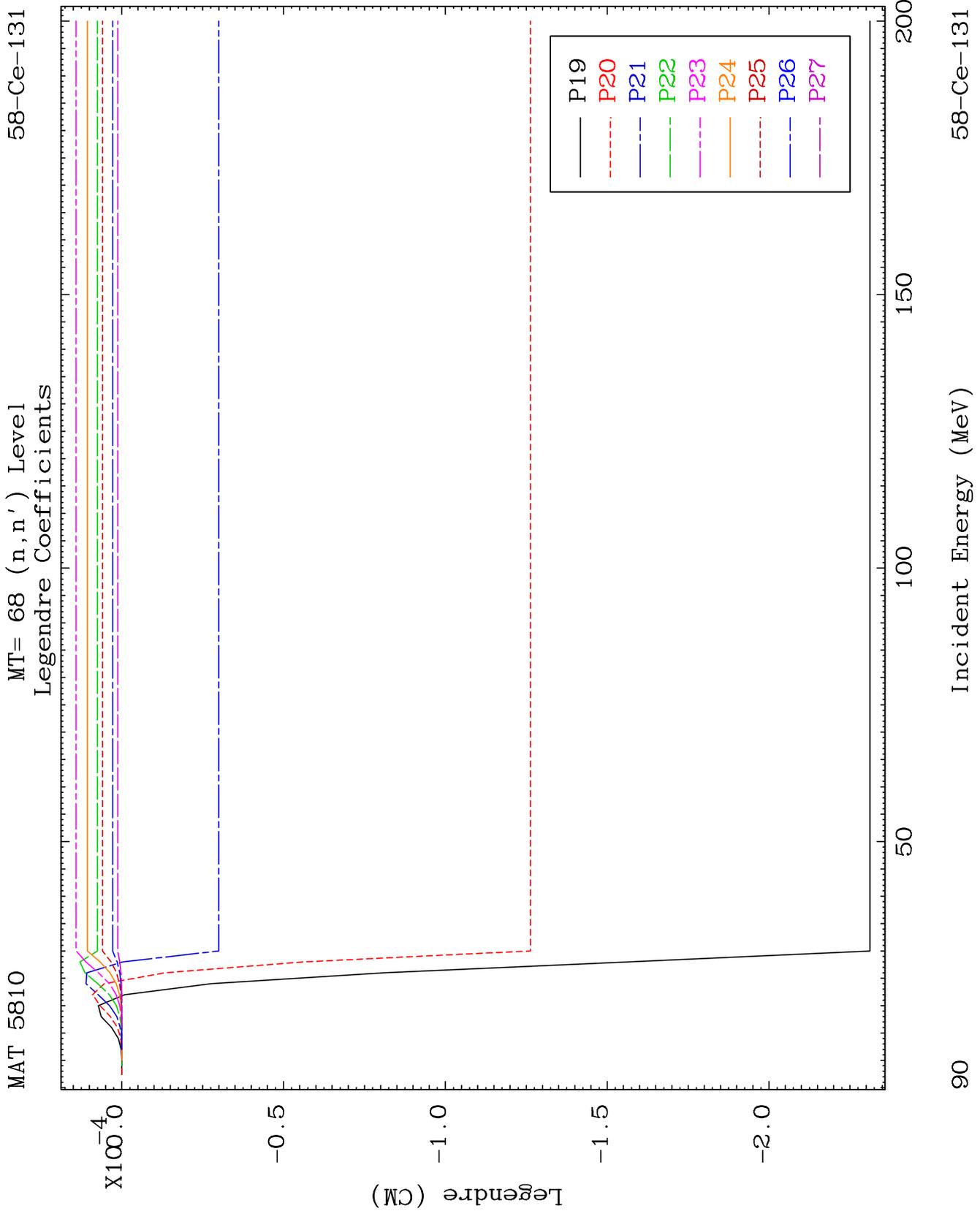


58-Ce-131

Incident Energy (MeV)

88

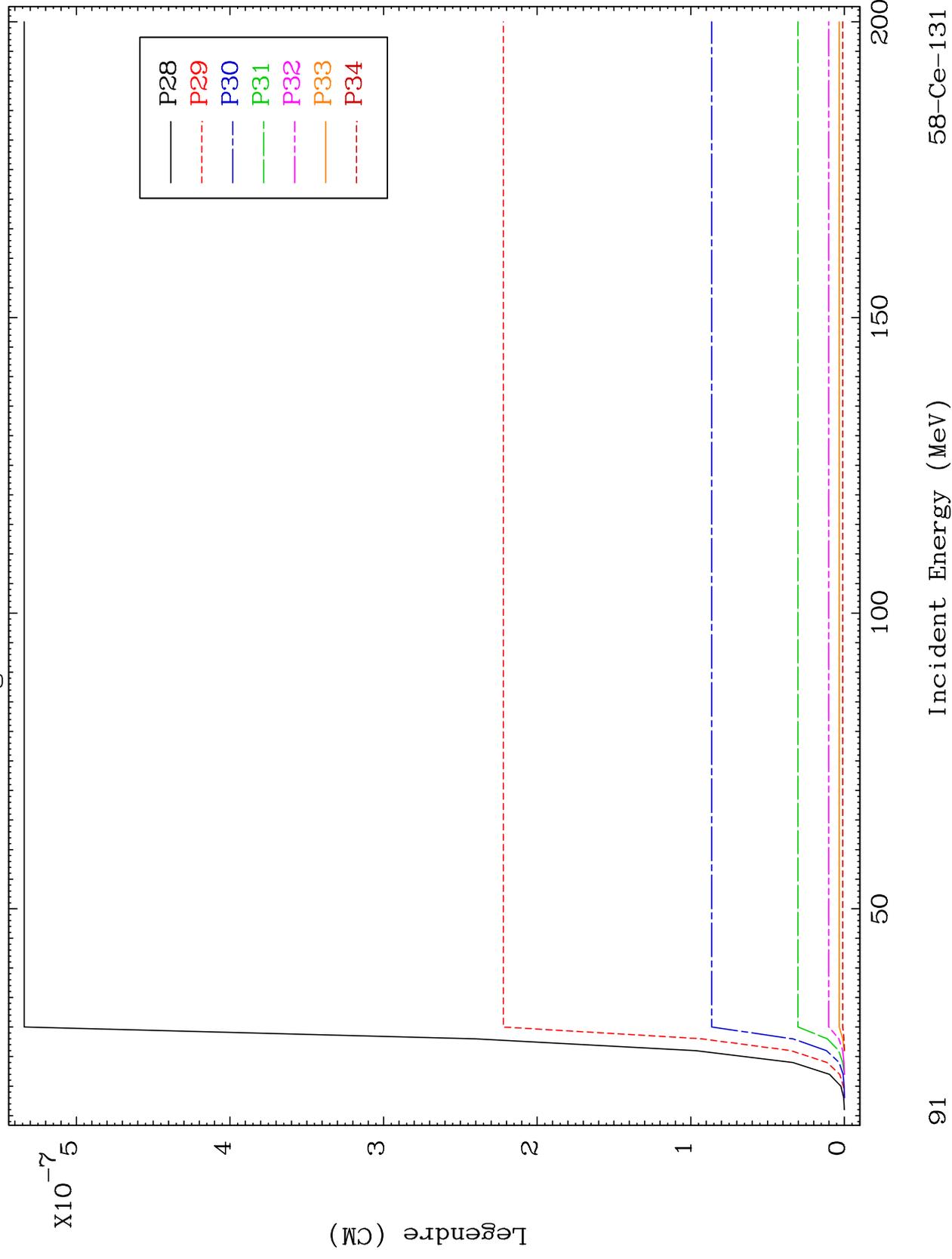




MAT 5810

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

58-Ce-131



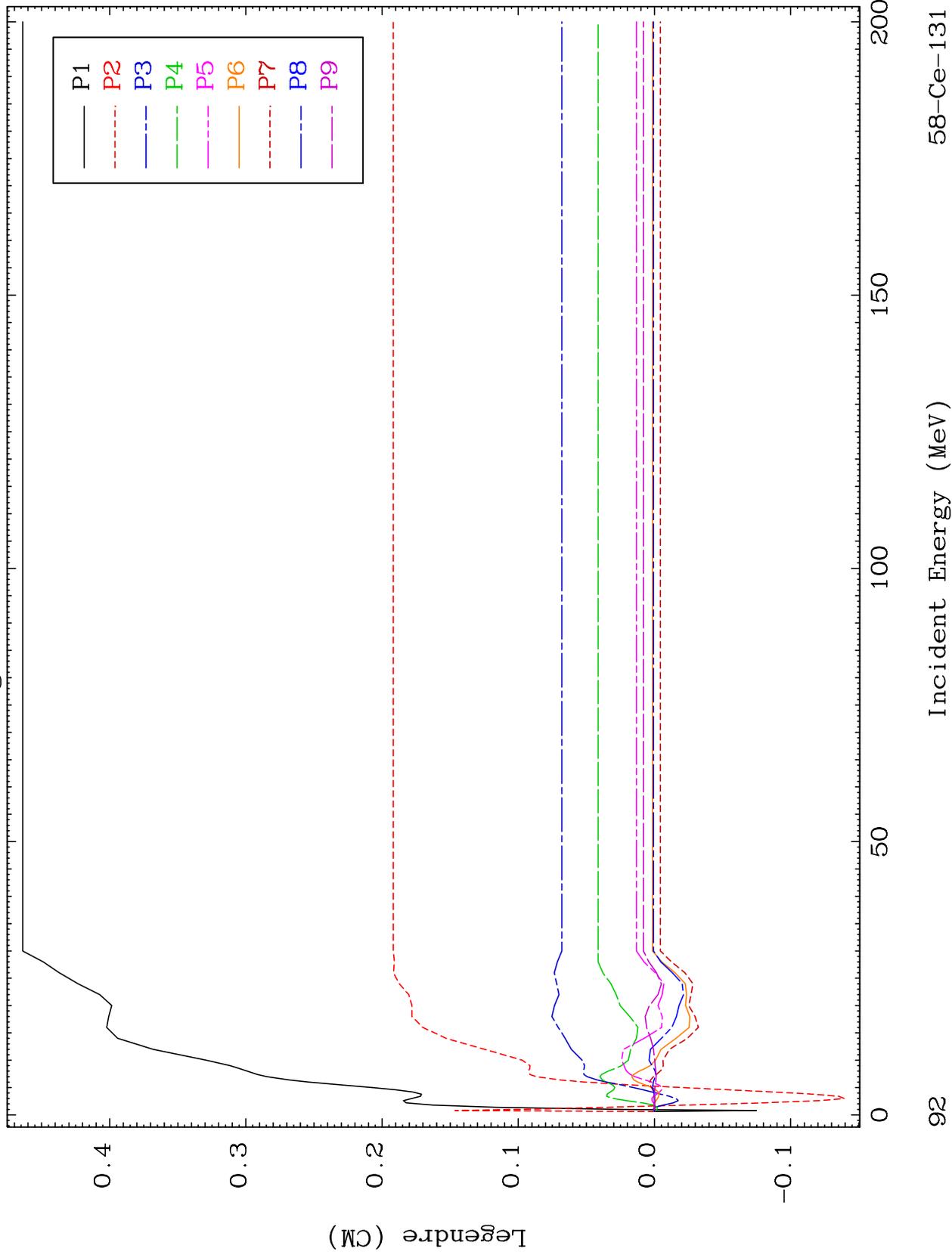
91

58-Ce-131

MAT 5810

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

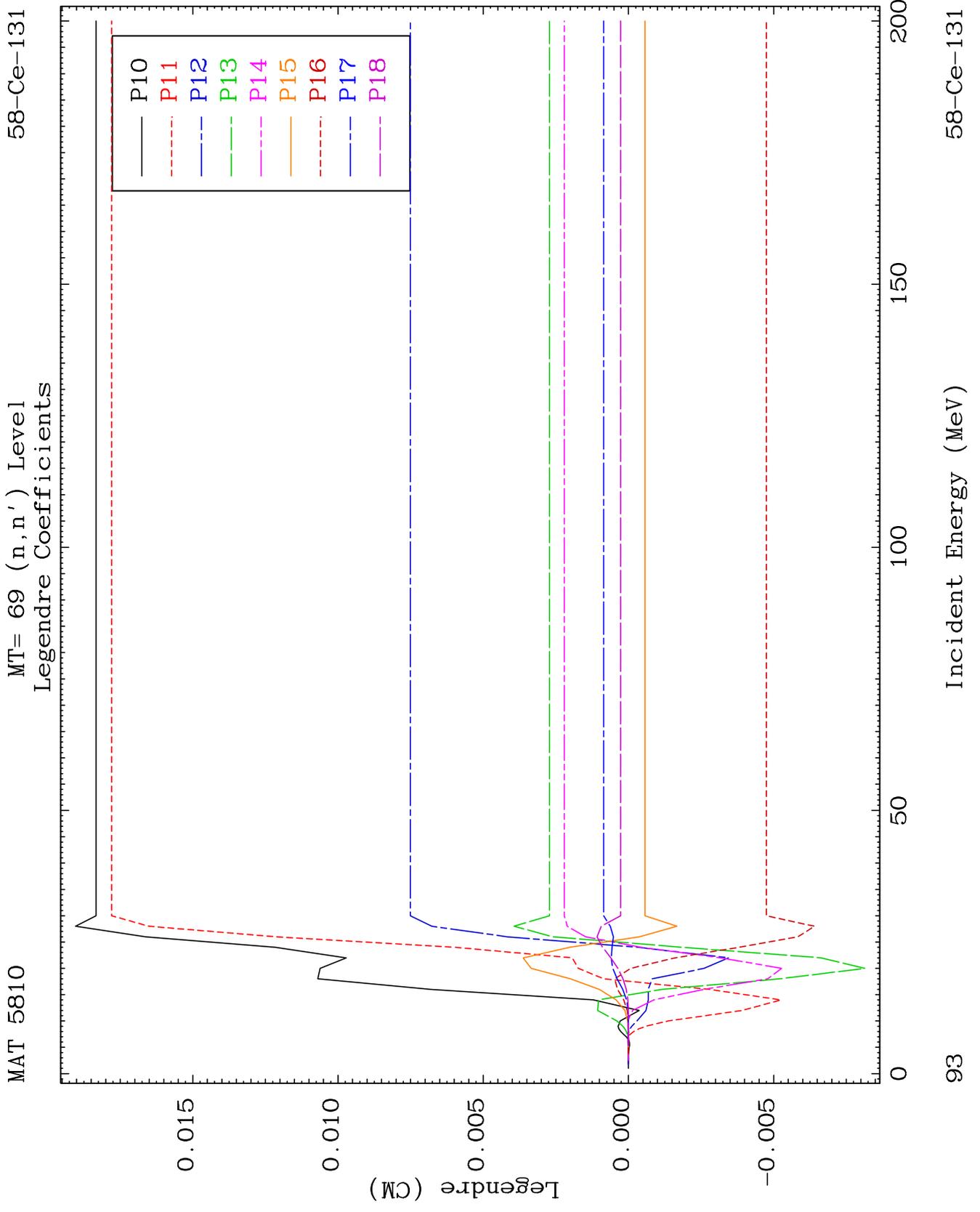
58-Ce-131



58-Ce-131

Incident Energy (MeV)

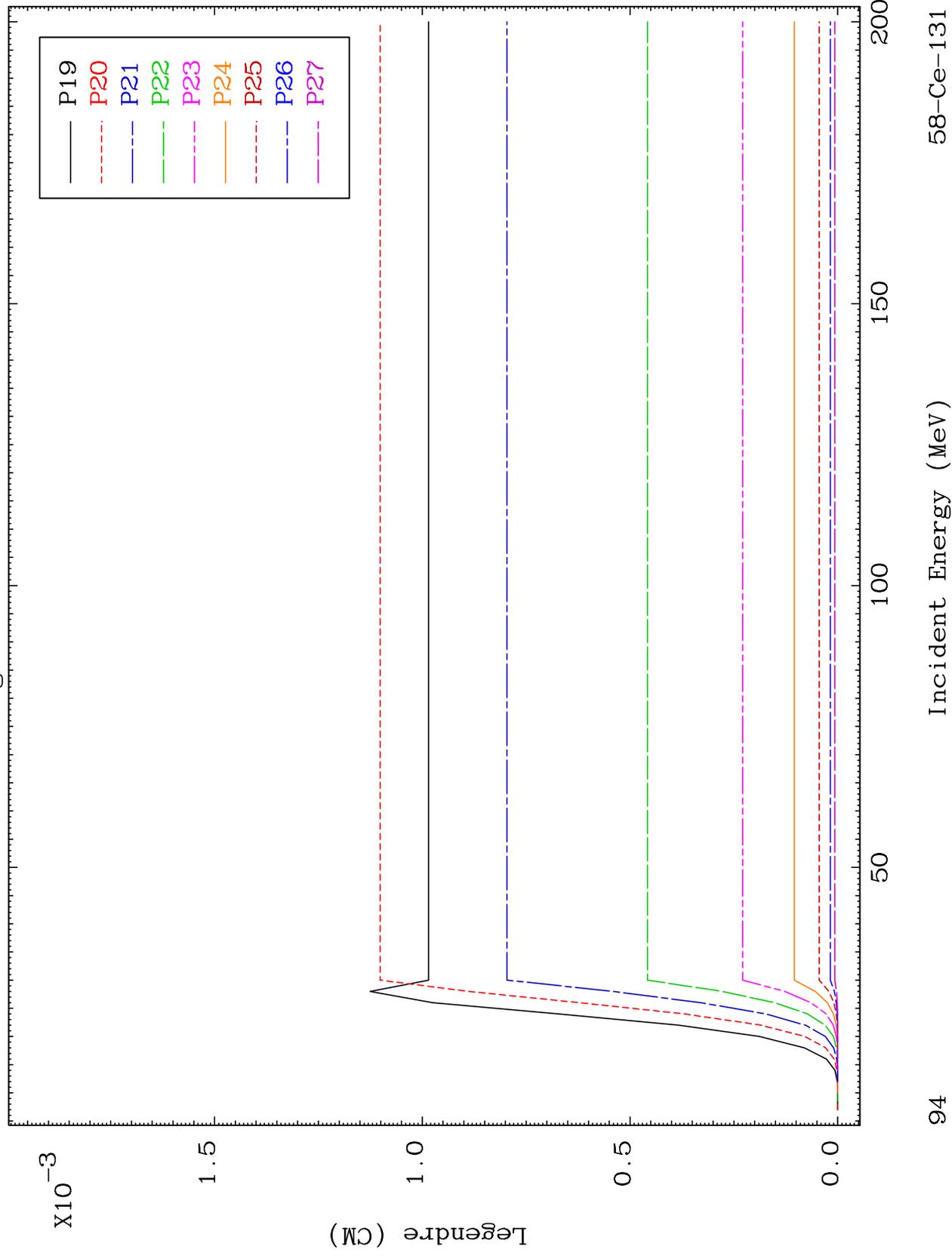
92



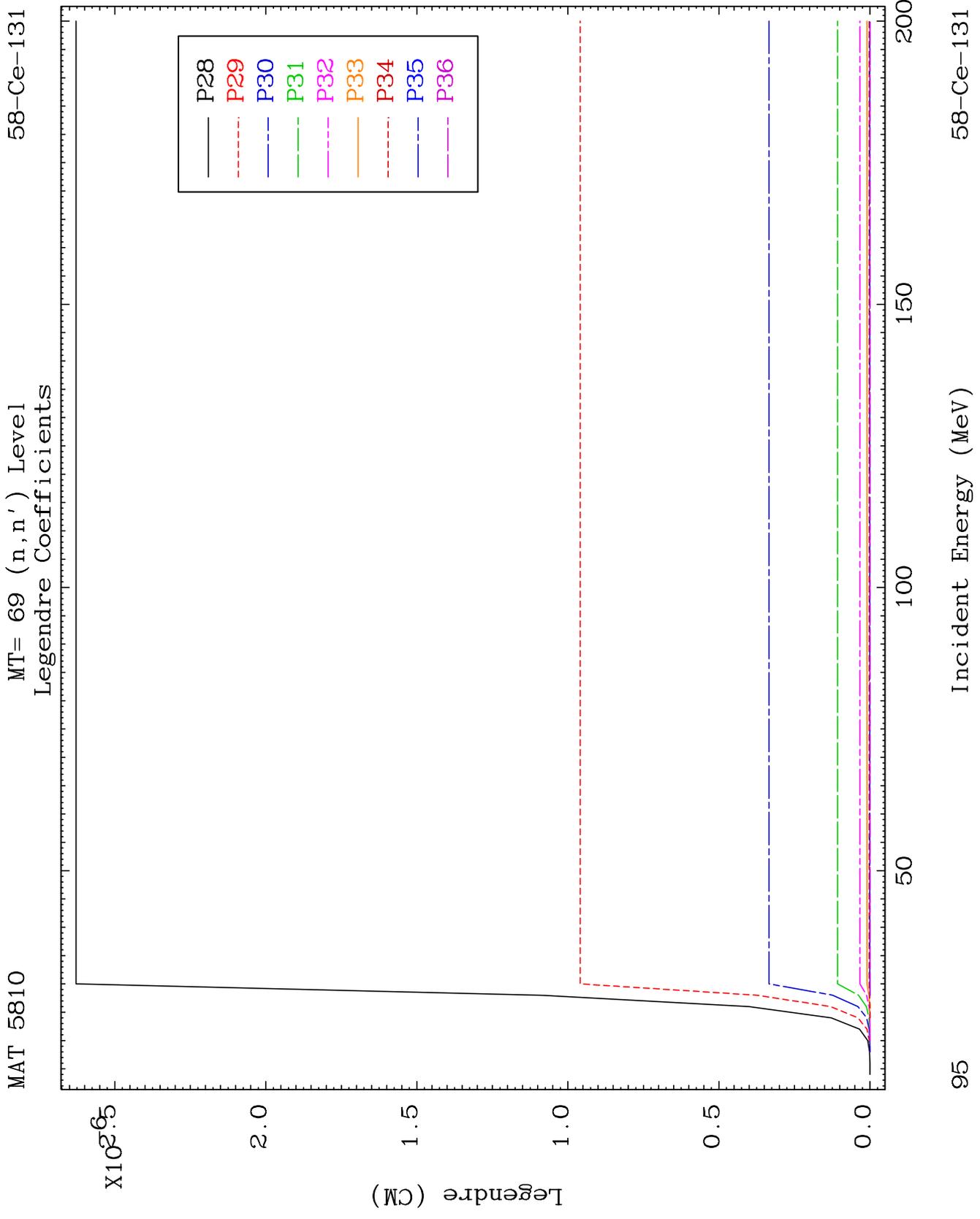
MAT 5810

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

58-Ce-131



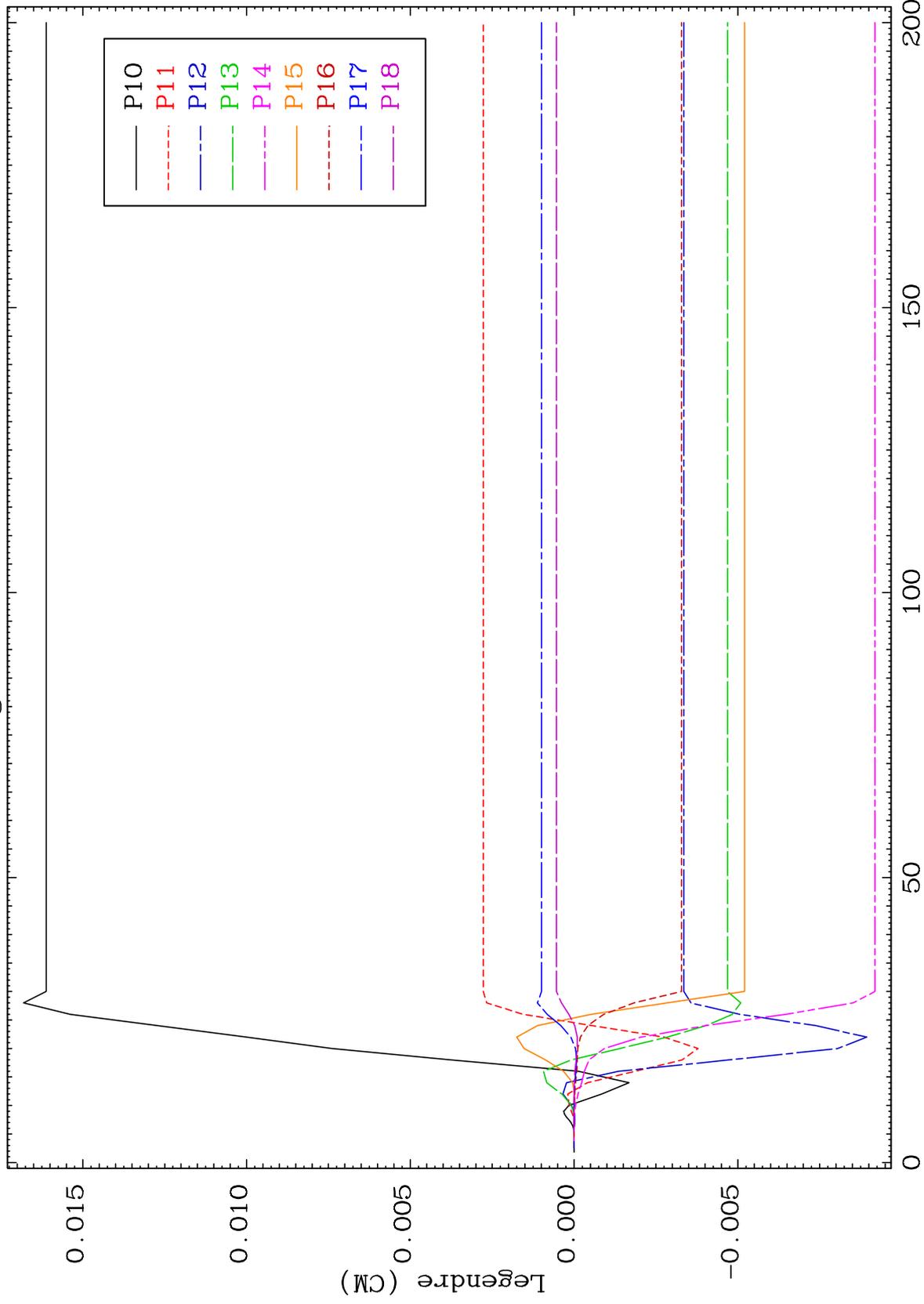
94



MAT 5810

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

58-Ce-131



97

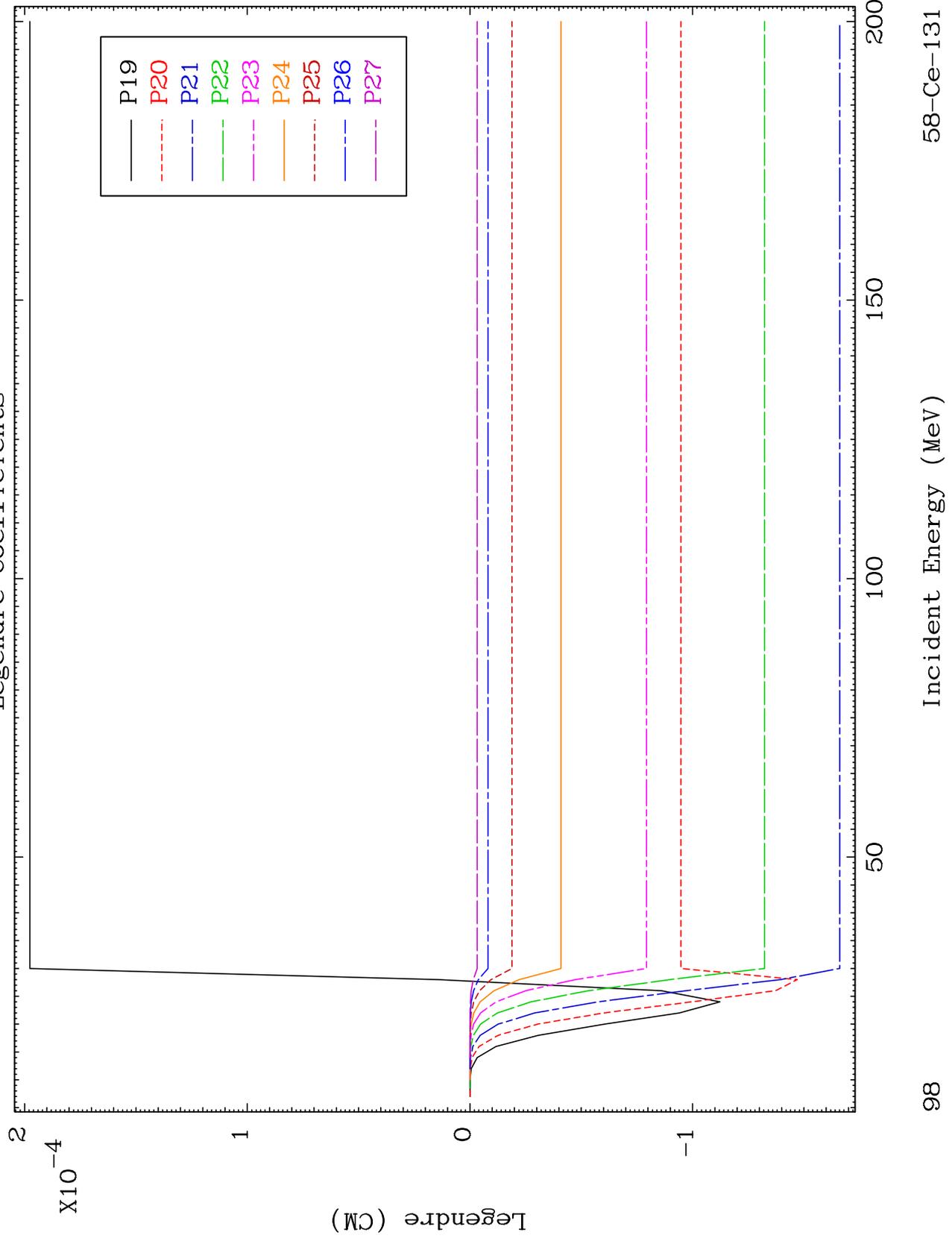
Incident Energy (MeV)

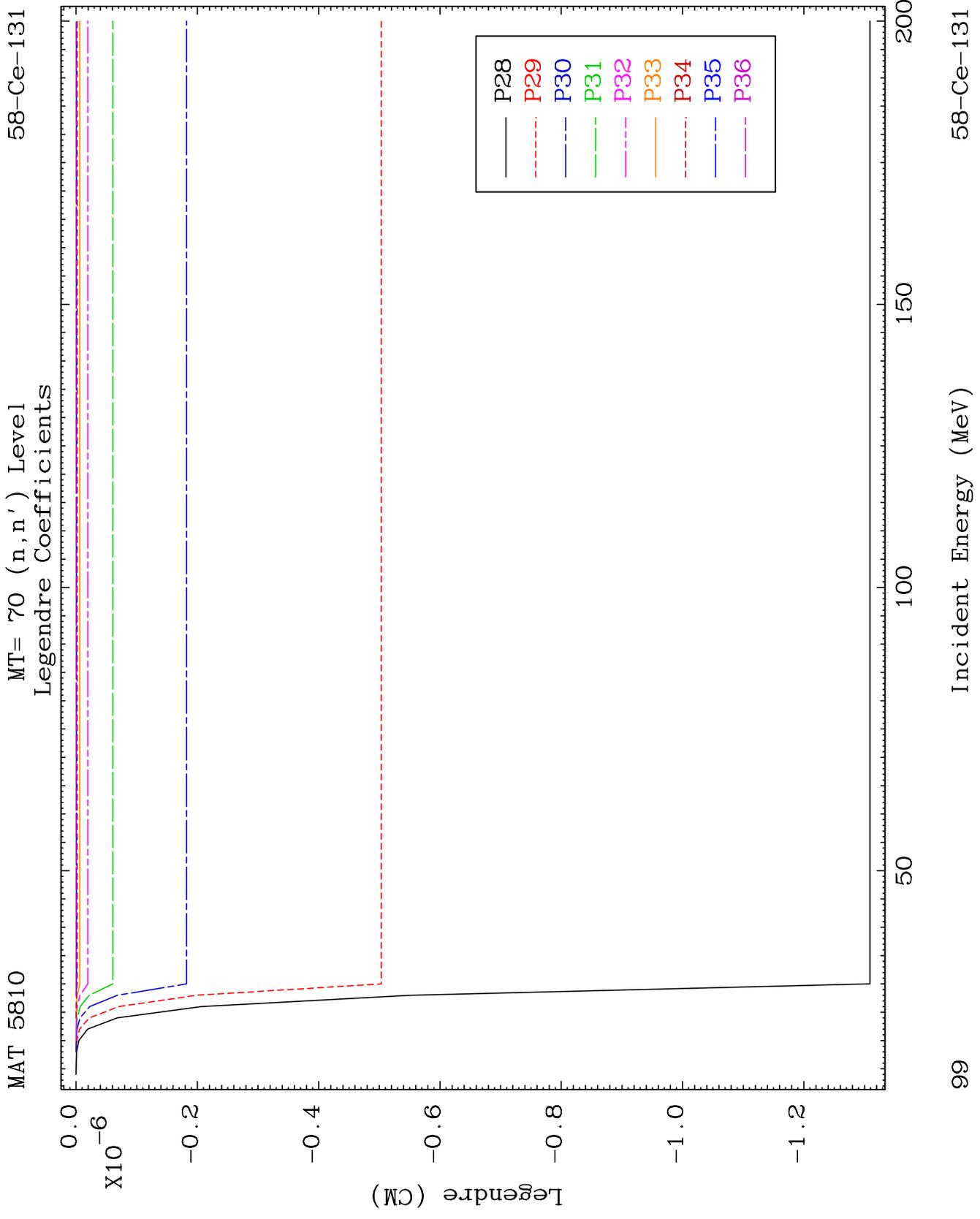
58-Ce-131

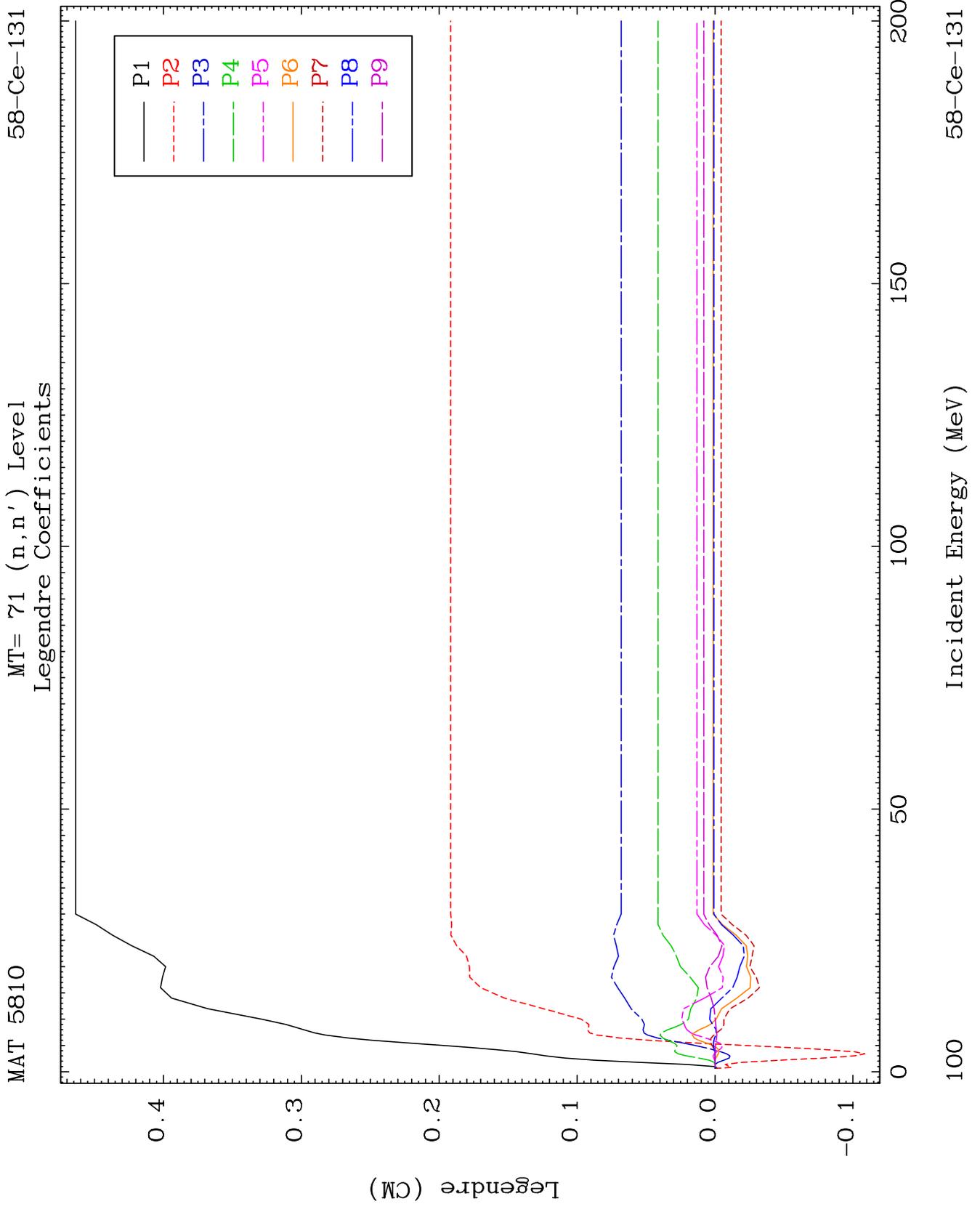
MAT 5810

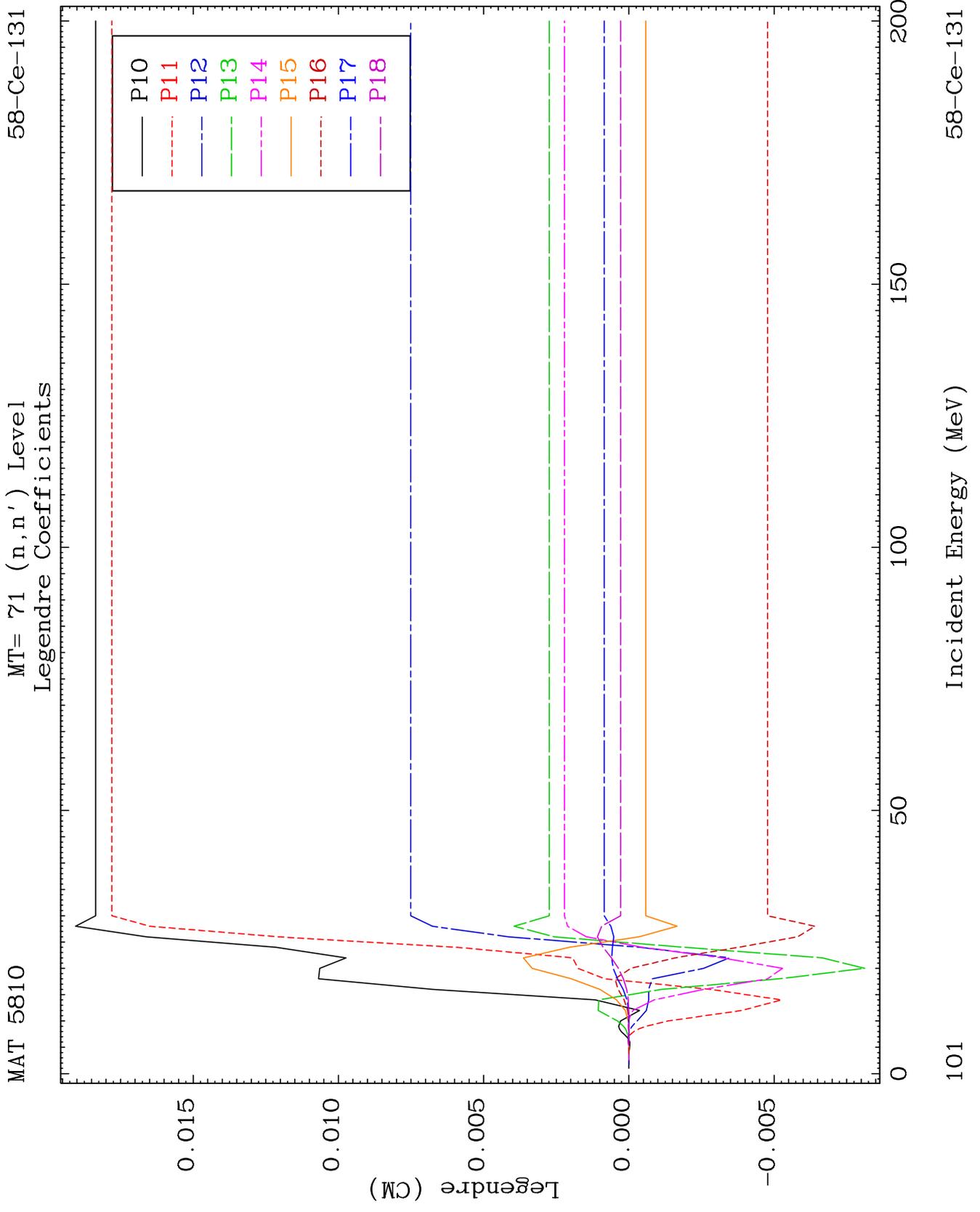
MT= 70 (n,n') Level
Legendre Coefficients

58-Ce-131





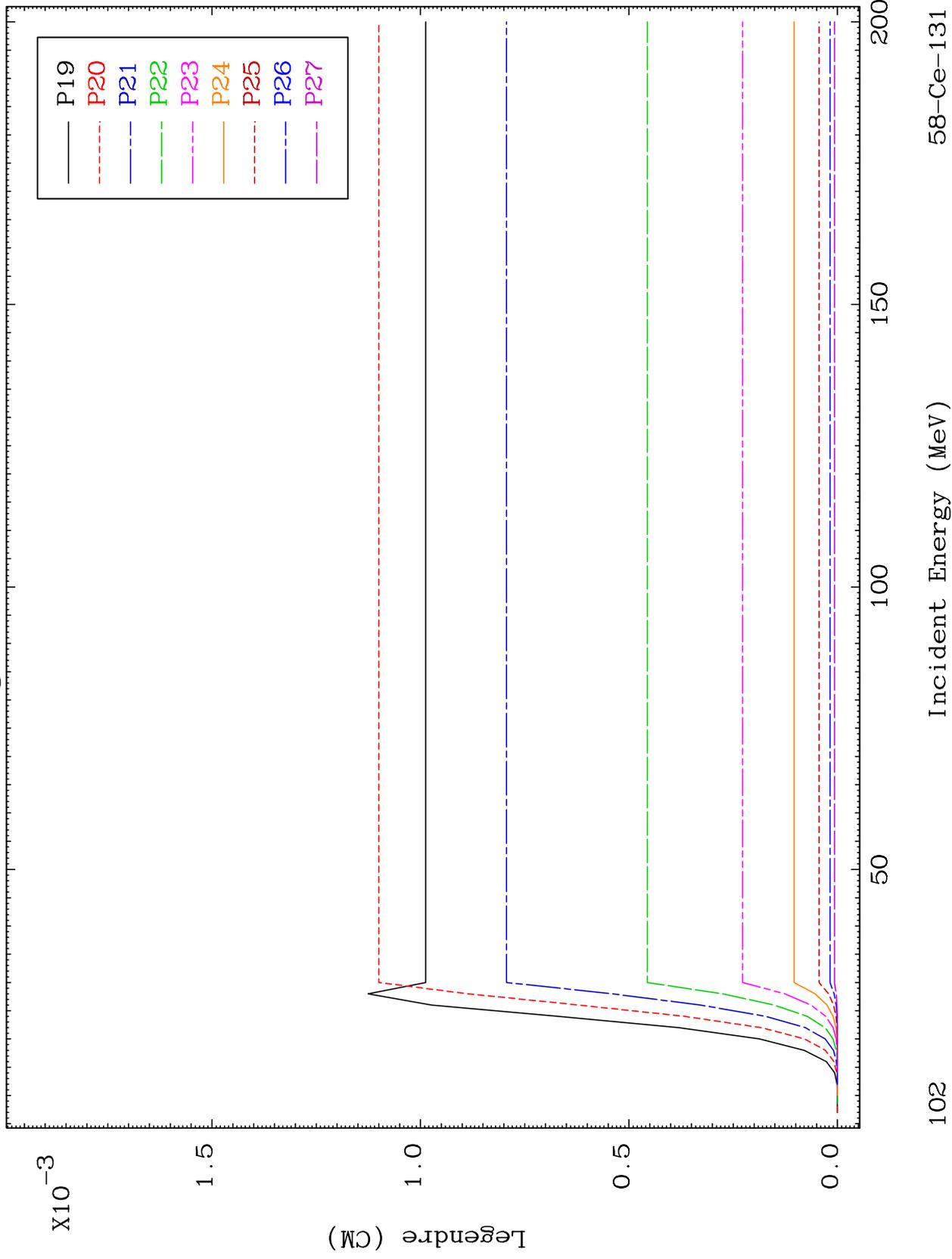




MAT 5810

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

58-Ce-131

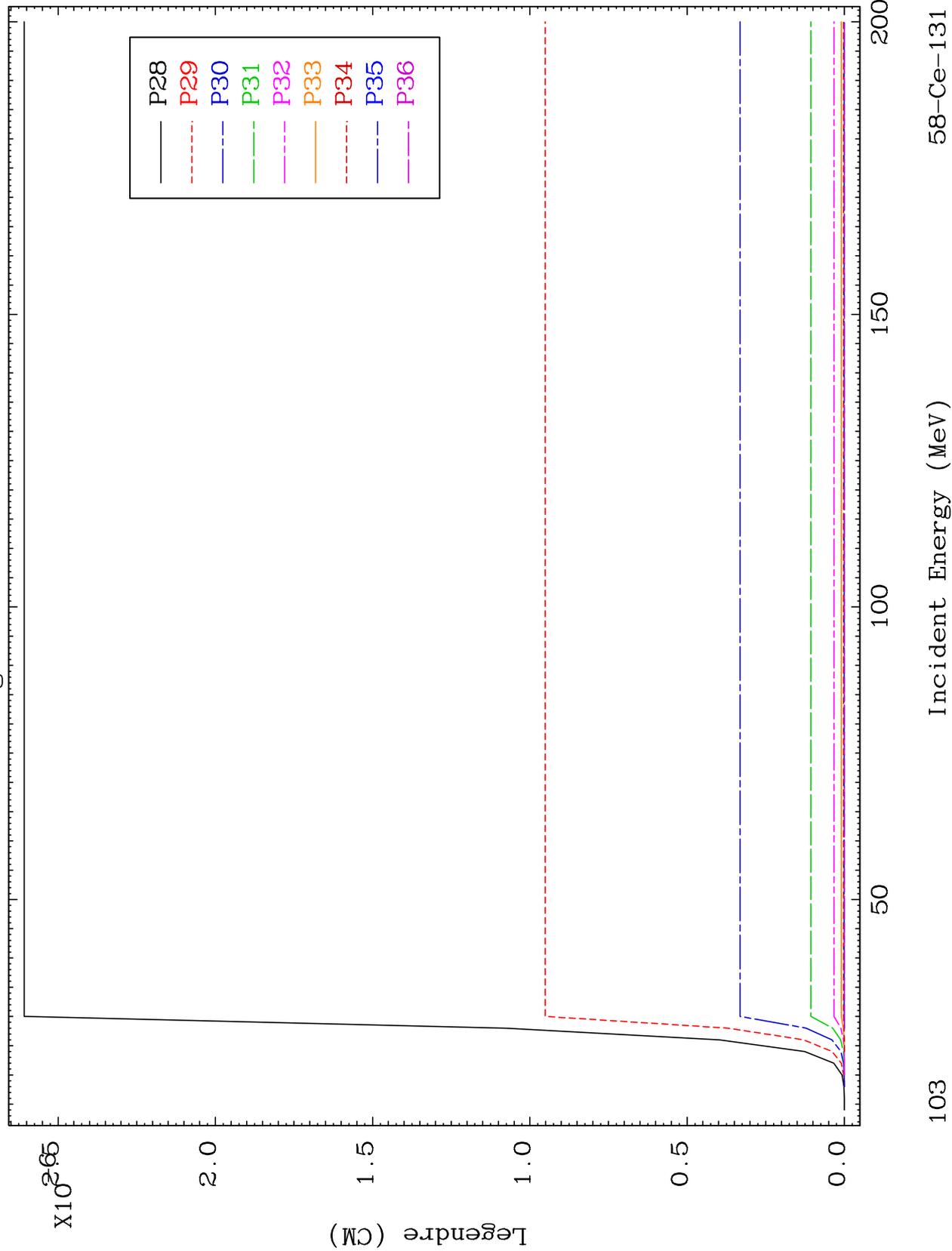


102

MAT 5810

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

58-Ce-131



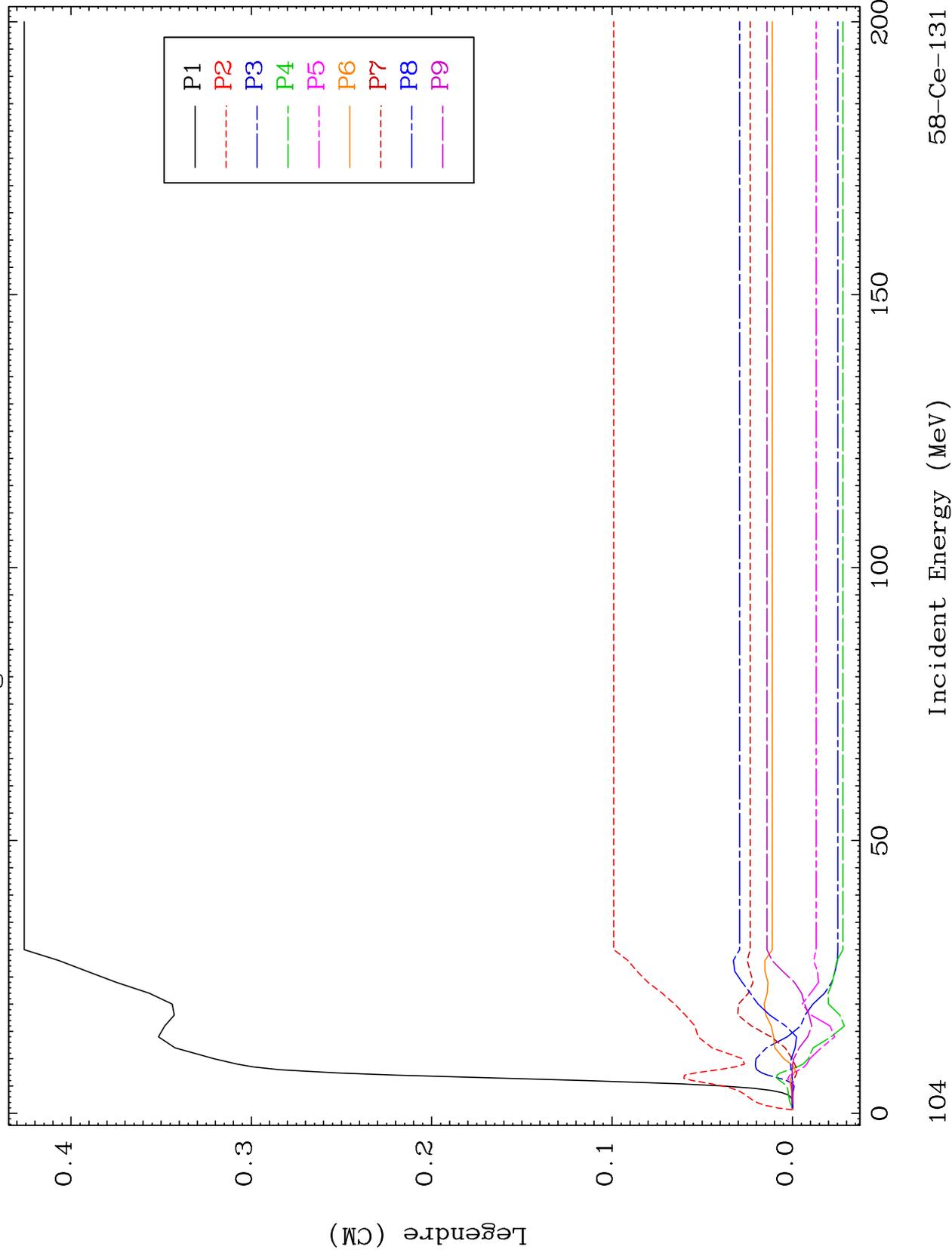
103

58-Ce-131

MAT 5810

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

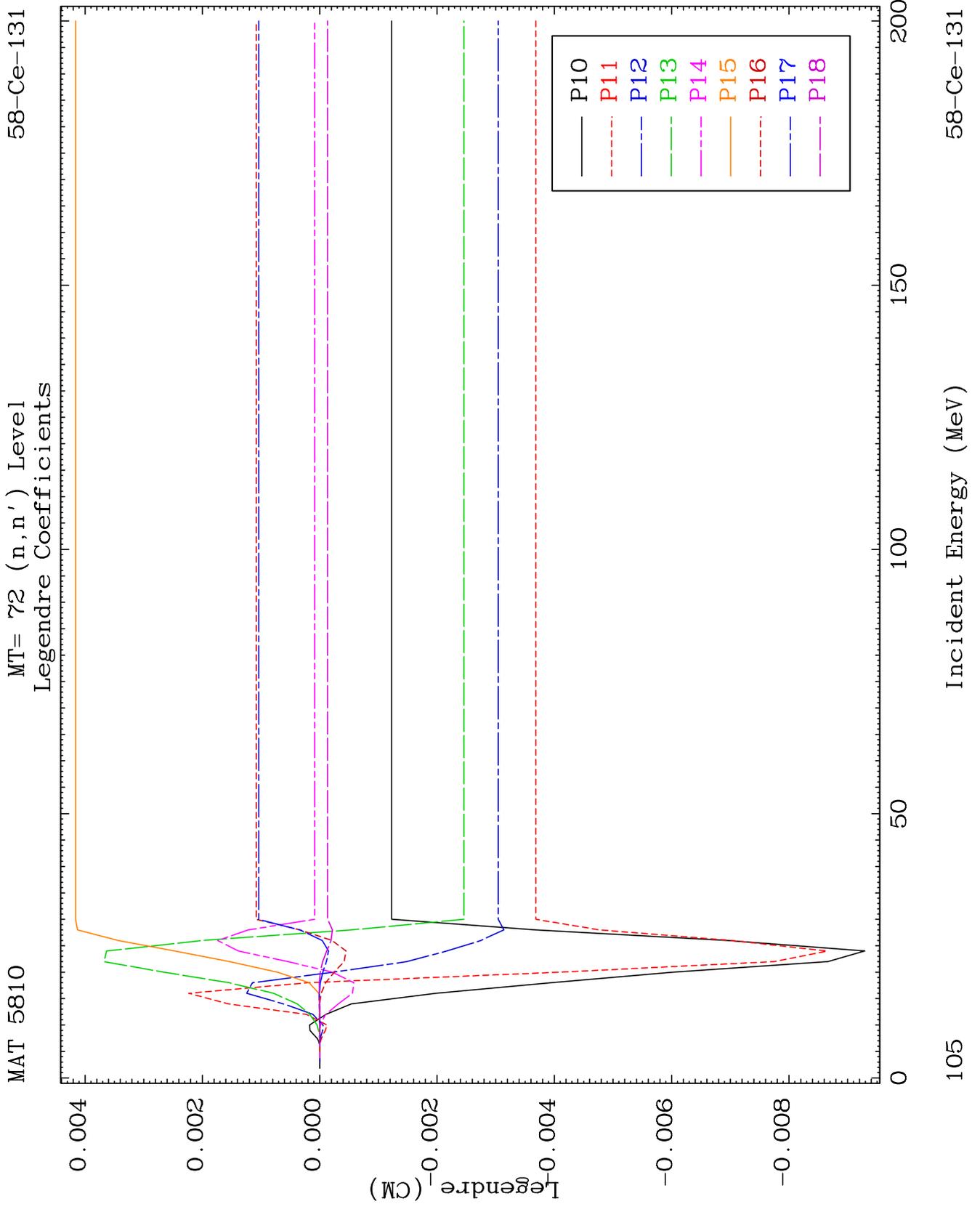
58-Ce-131

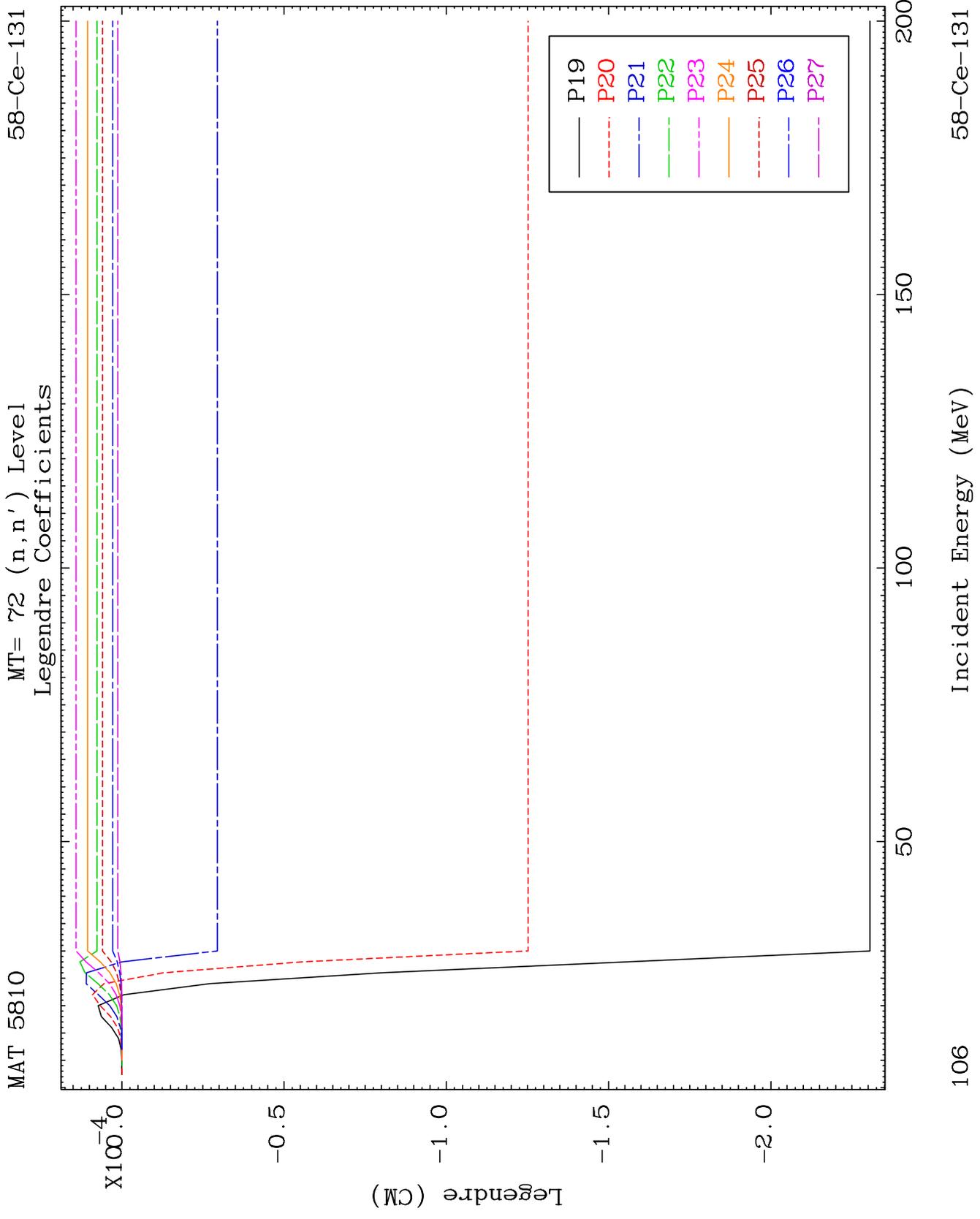


58-Ce-131

Incident Energy (MeV)

104

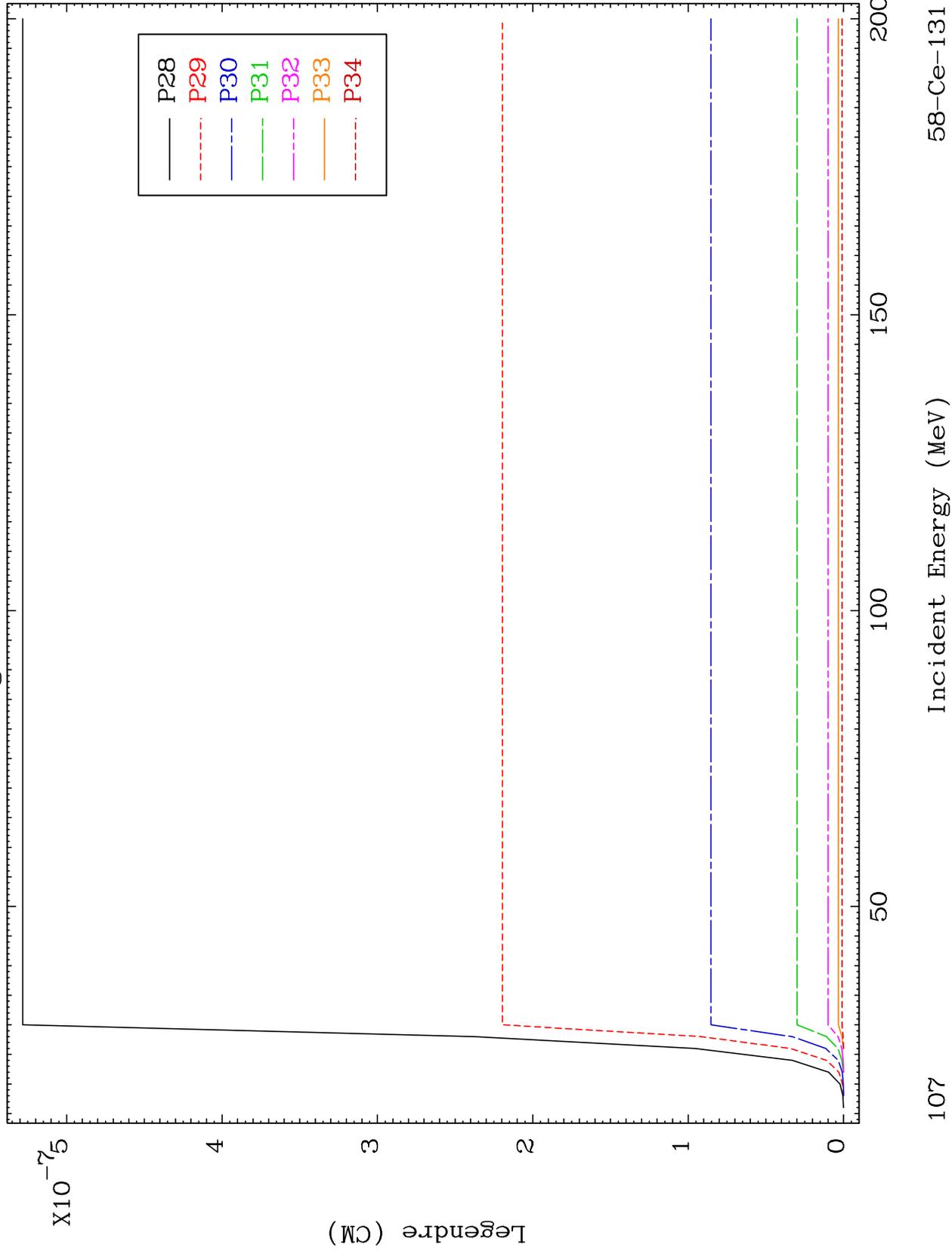




MAT 5810

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

58-Ce-131

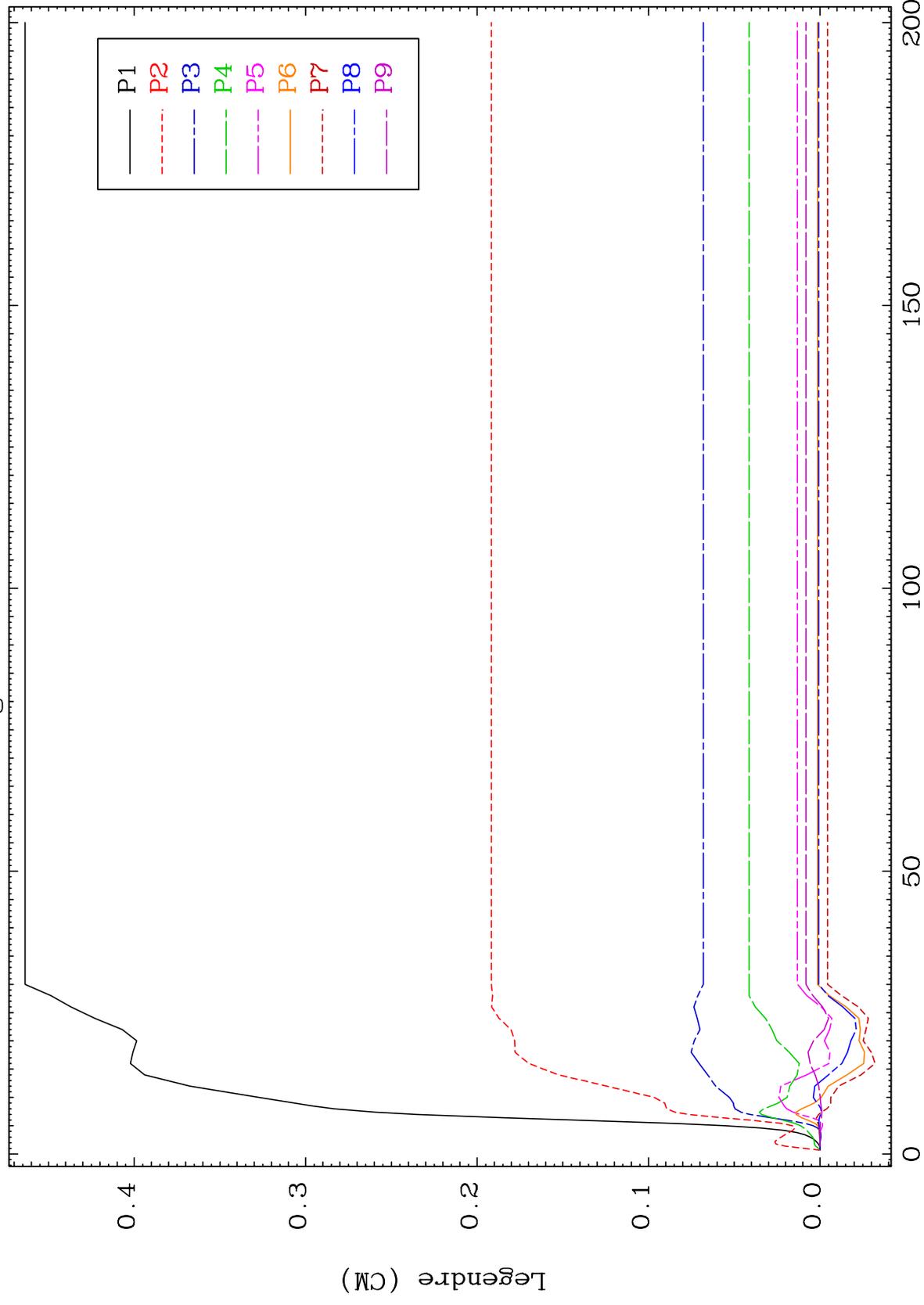


107

MAT 5810

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

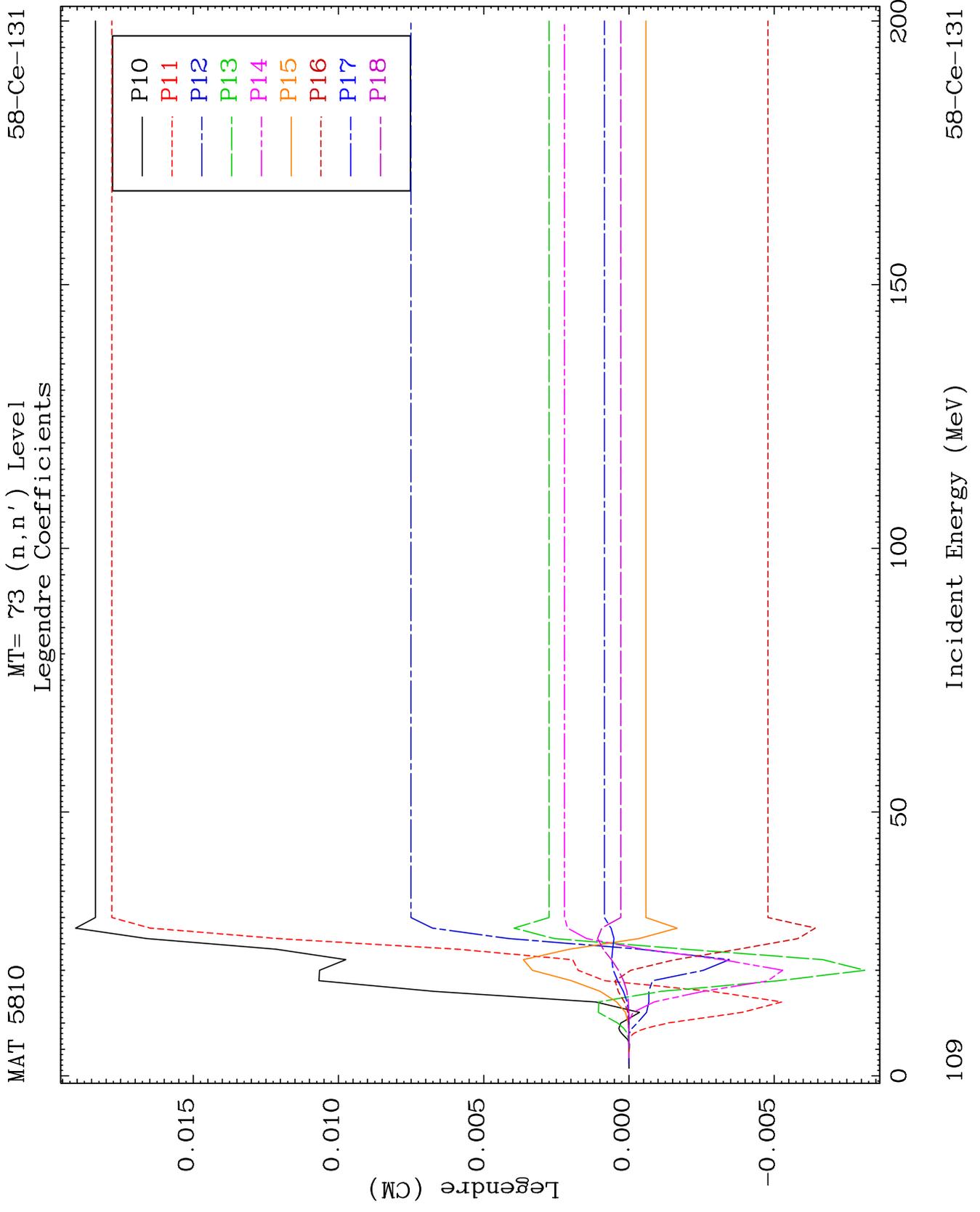
58-Ce-131



58-Ce-131

Incident Energy (MeV)

108



58-Ce-131

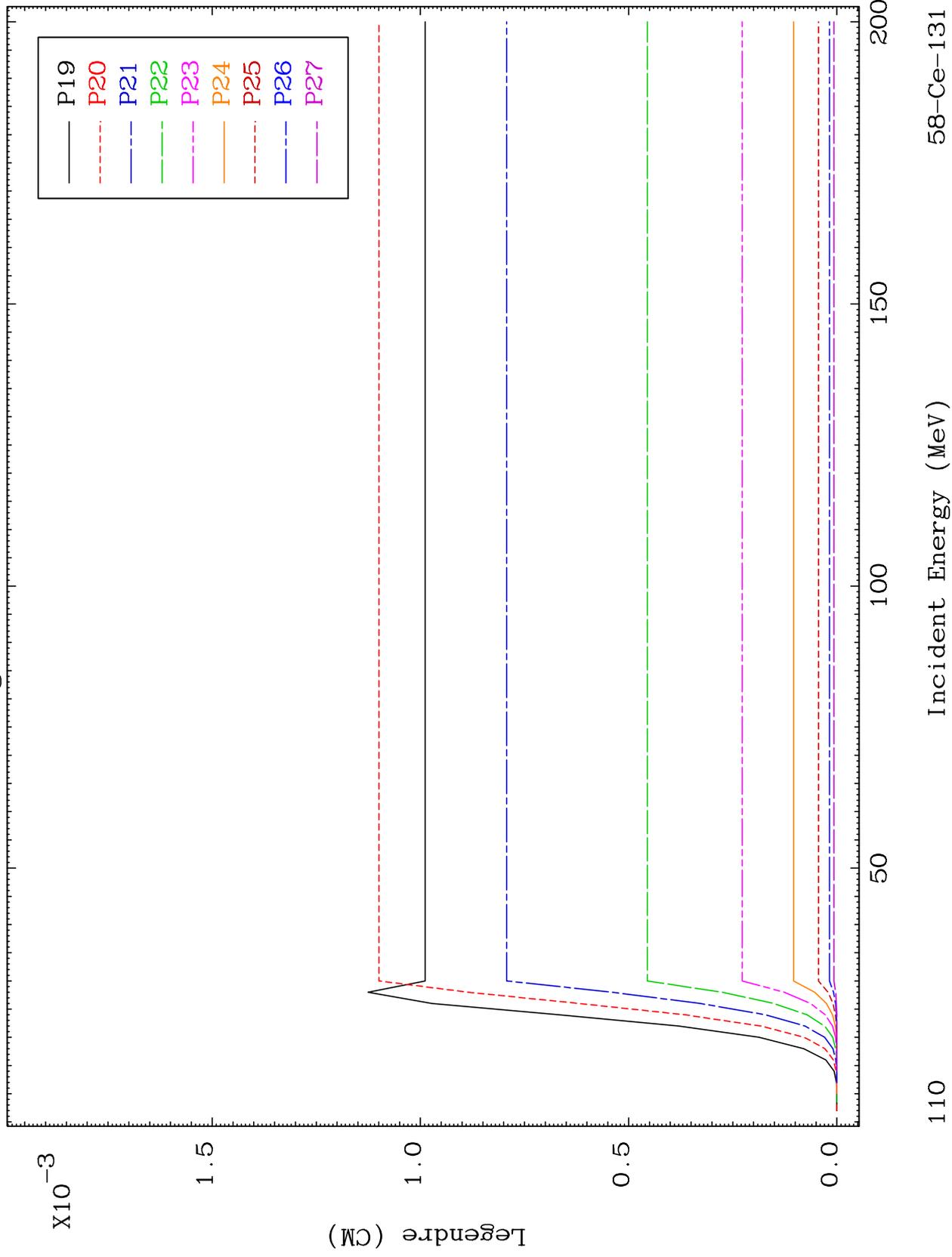
Incident Energy (MeV)

109

MAT 5810

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

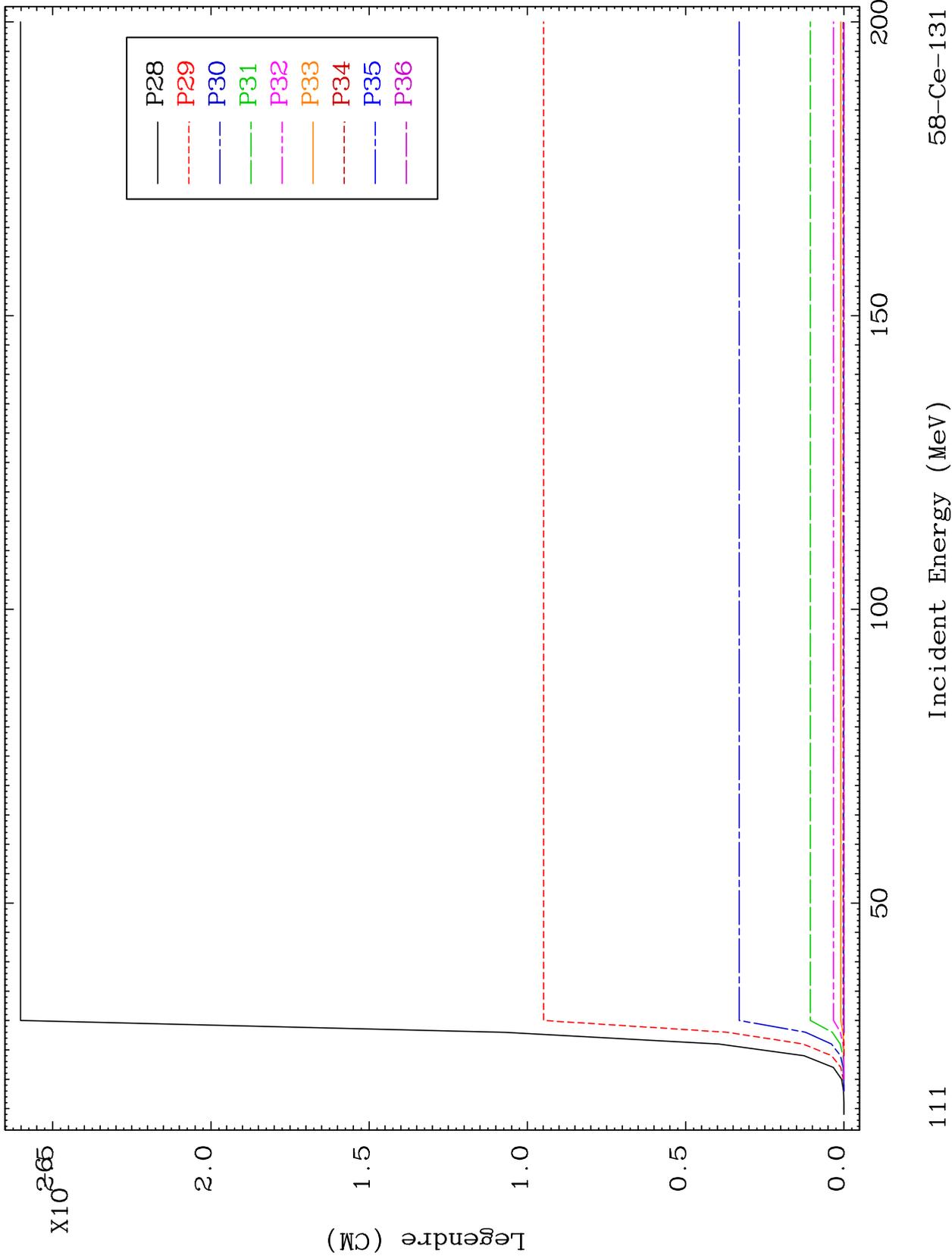
58-Ce-131



MAT 5810

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

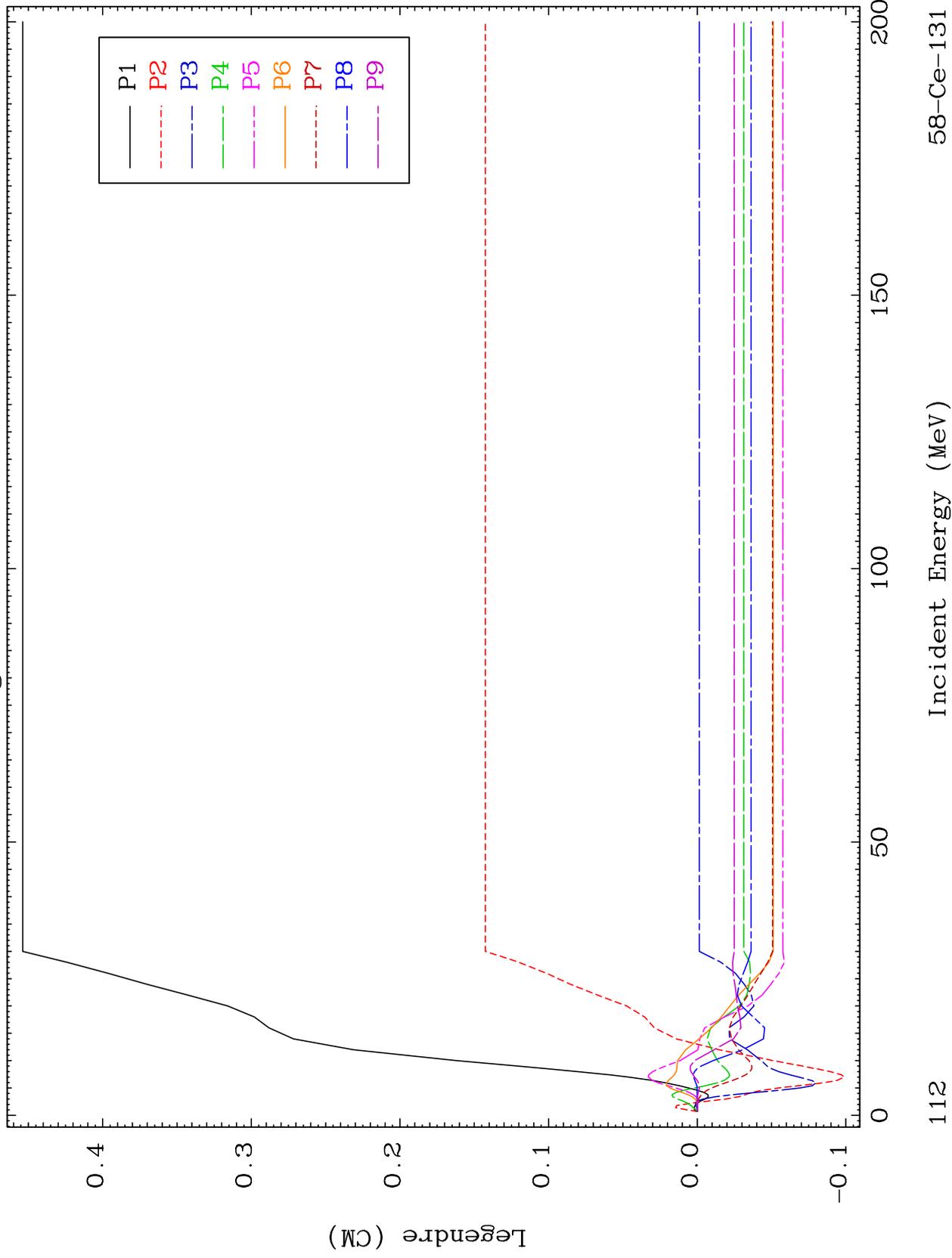
58-Ce-131



MAT 5810

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

58-Ce-131



58-Ce-131

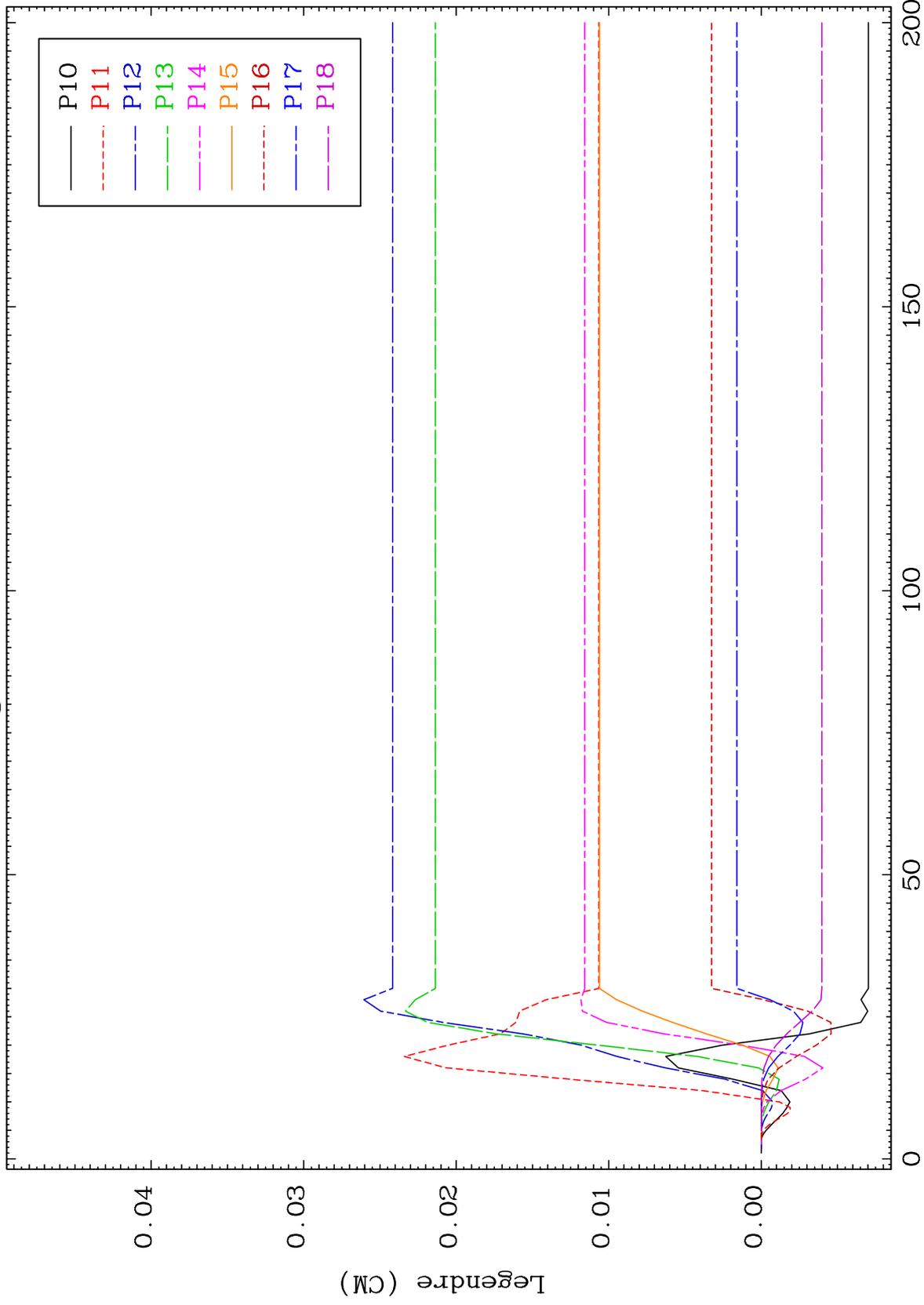
Incident Energy (MeV)

112

MAT 5810

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

58-Ce-131



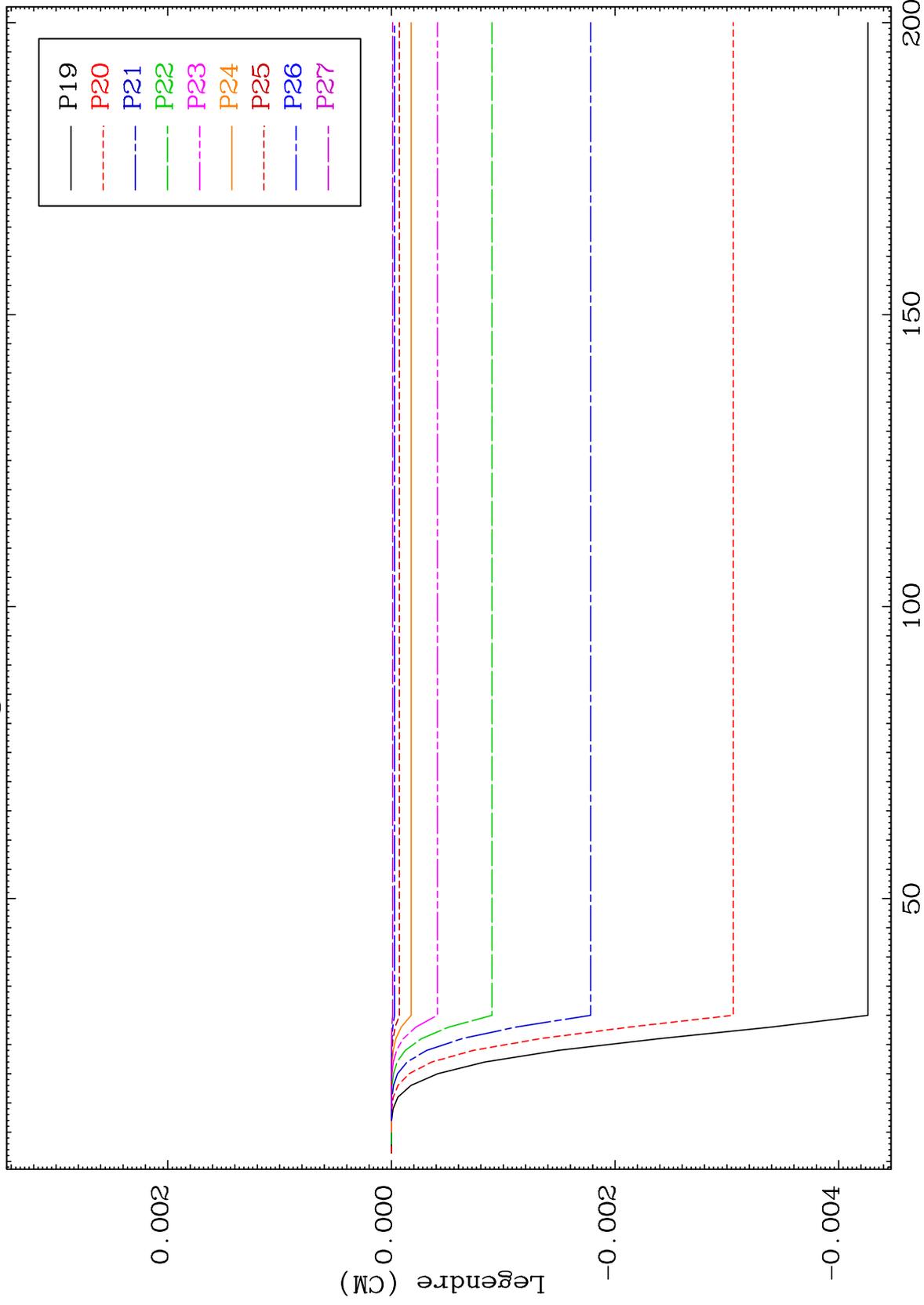
113

58-Ce-131

MAT 5810

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

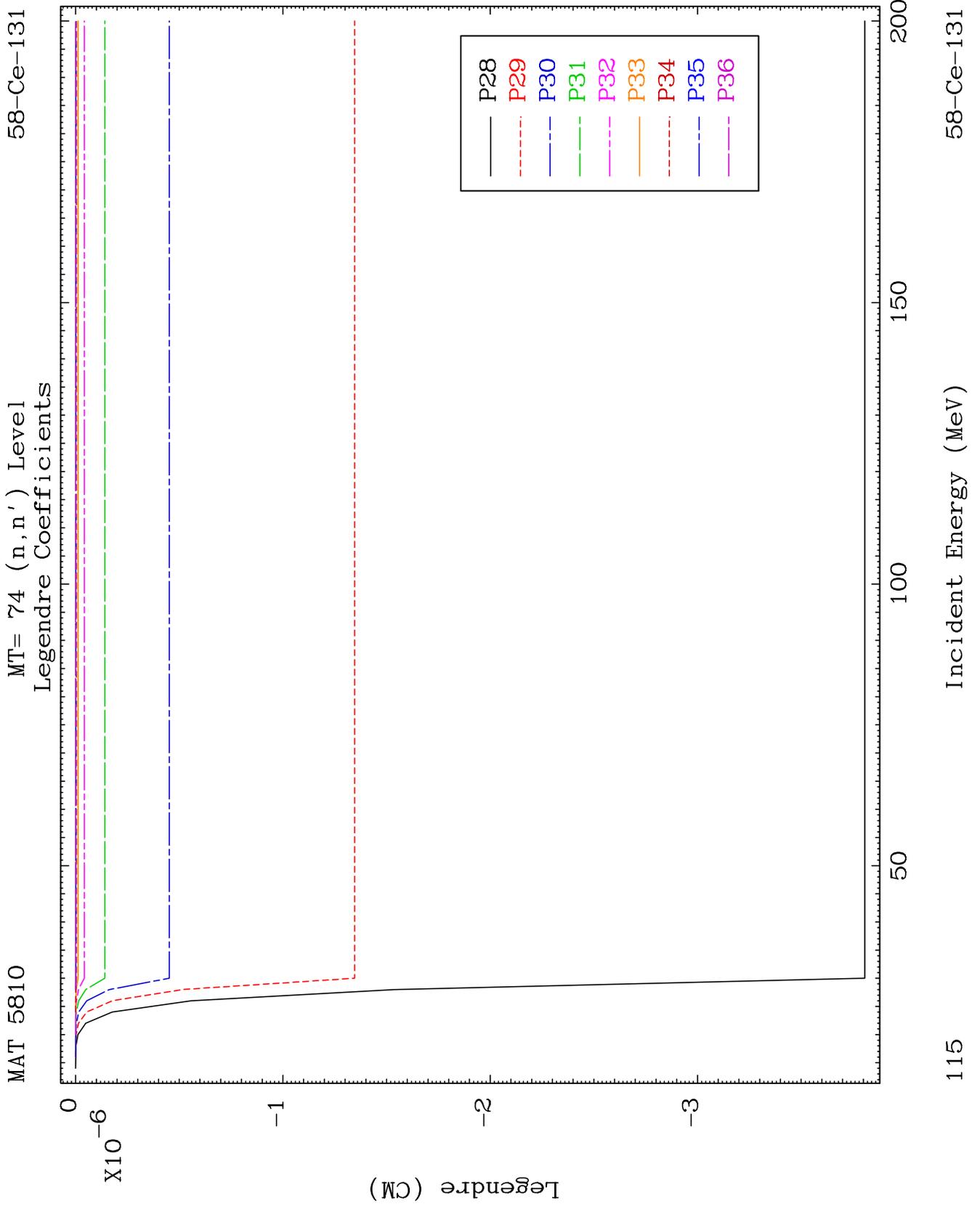
58-Ce-131



114

Incident Energy (MeV)

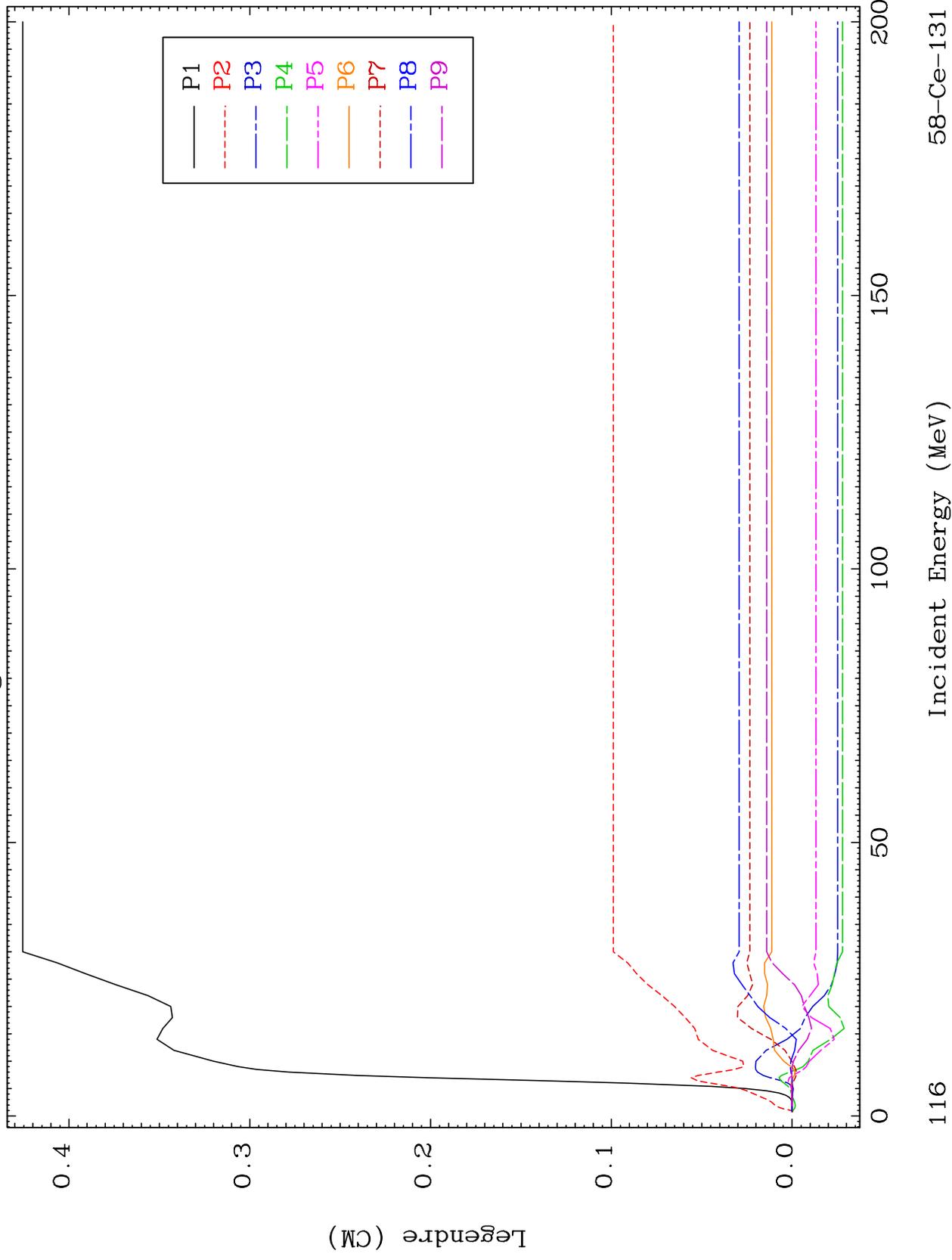
58-Ce-131

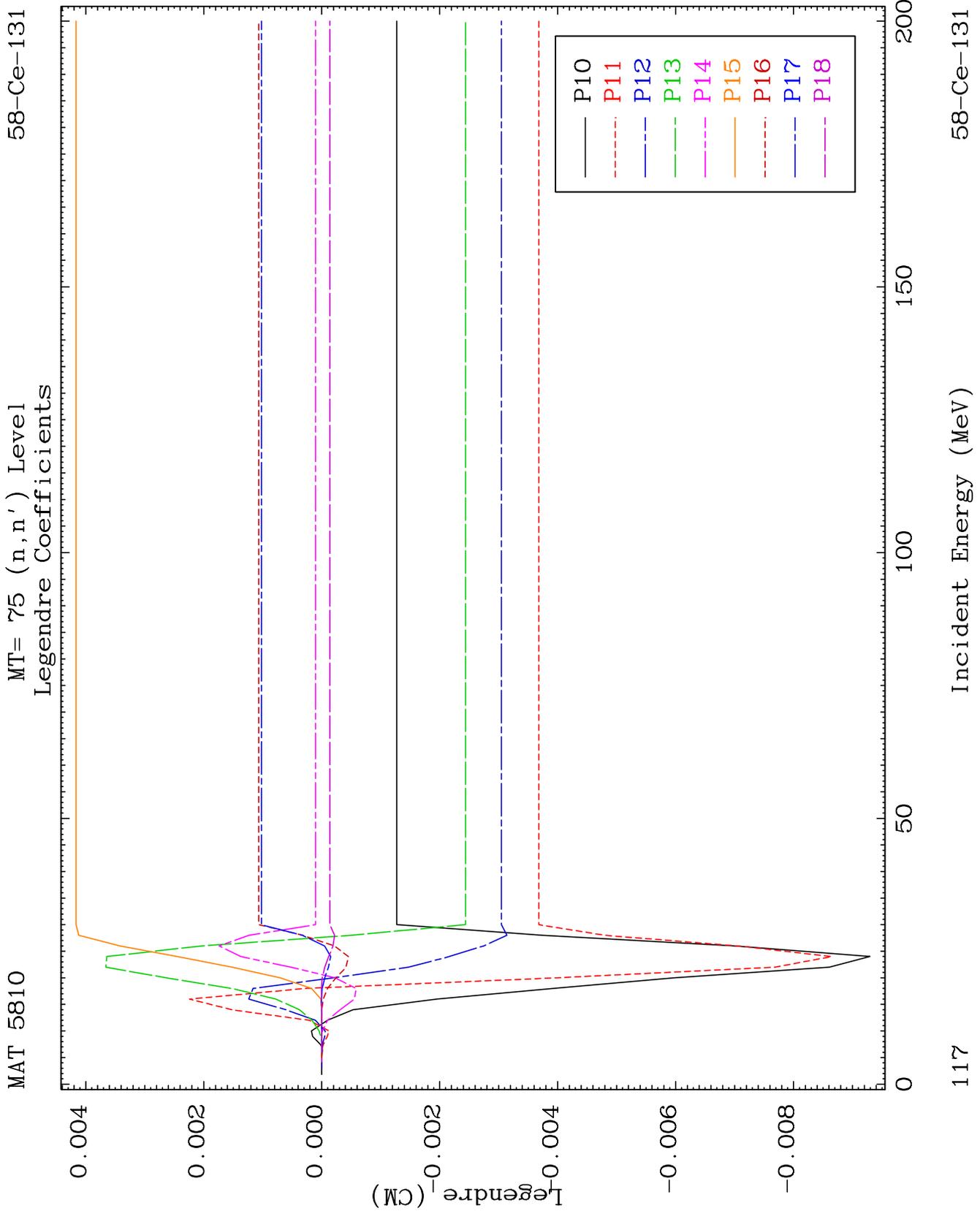


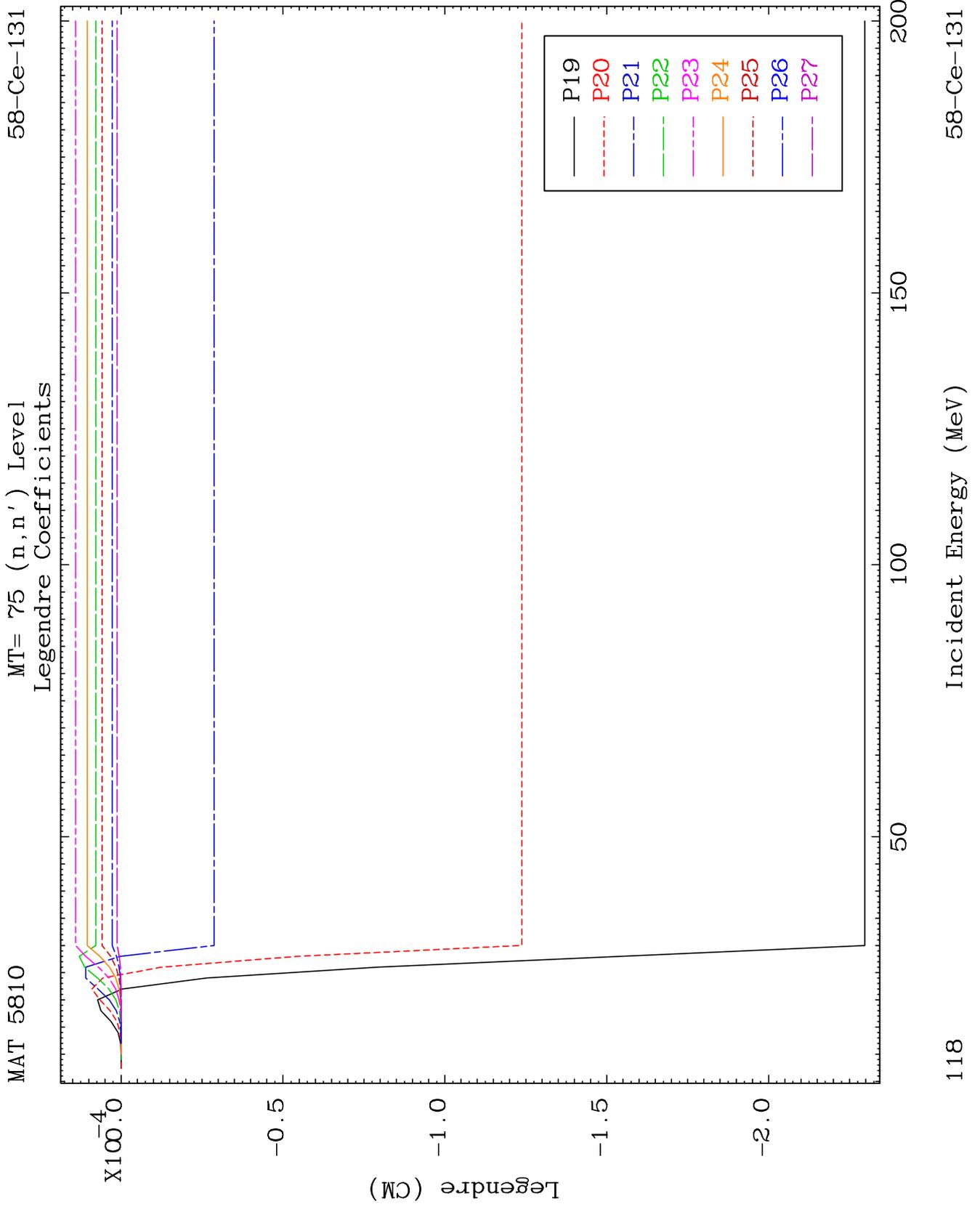
MAT 5810

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

58-Ce-131



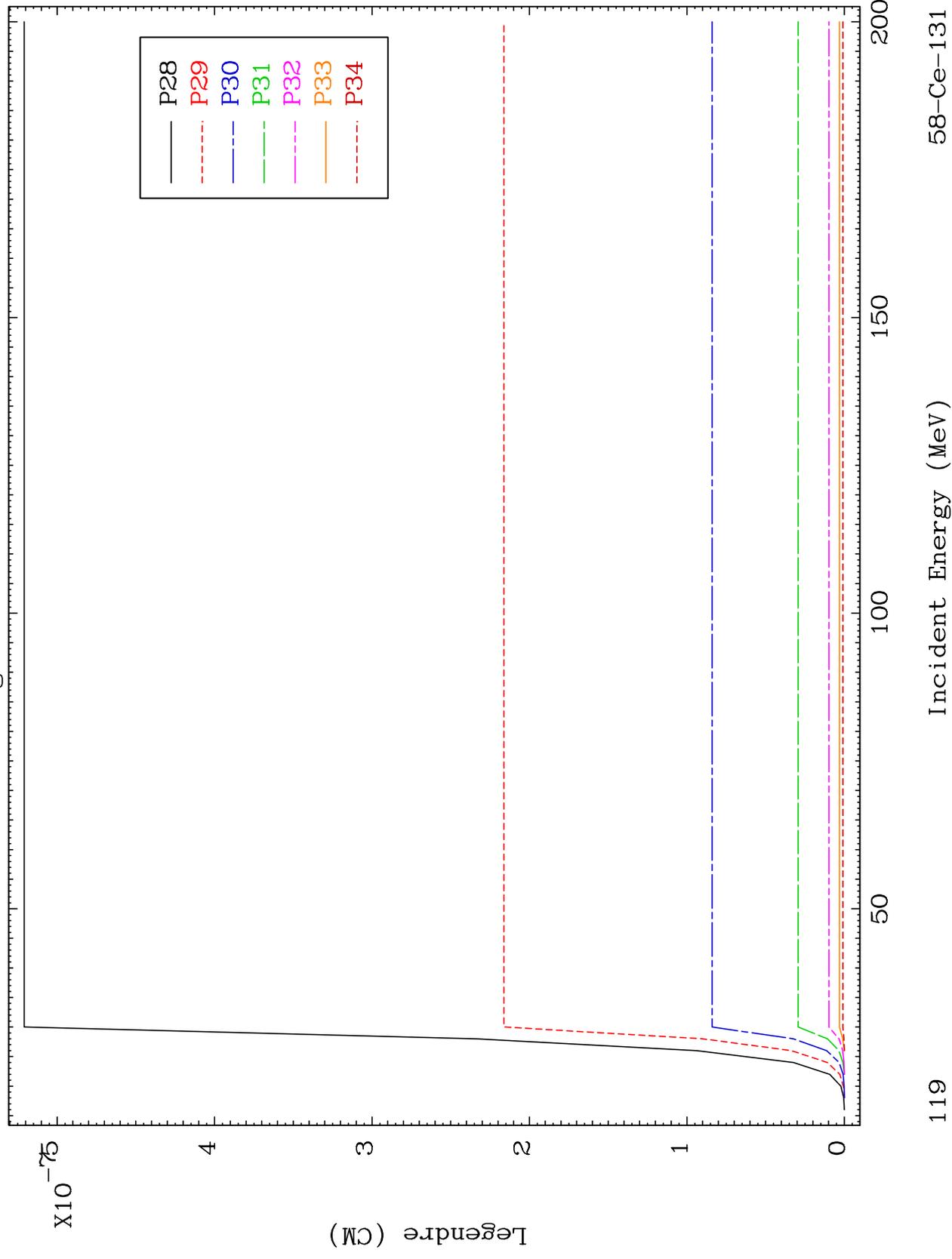




MAT 5810

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

58-Ce-131



119

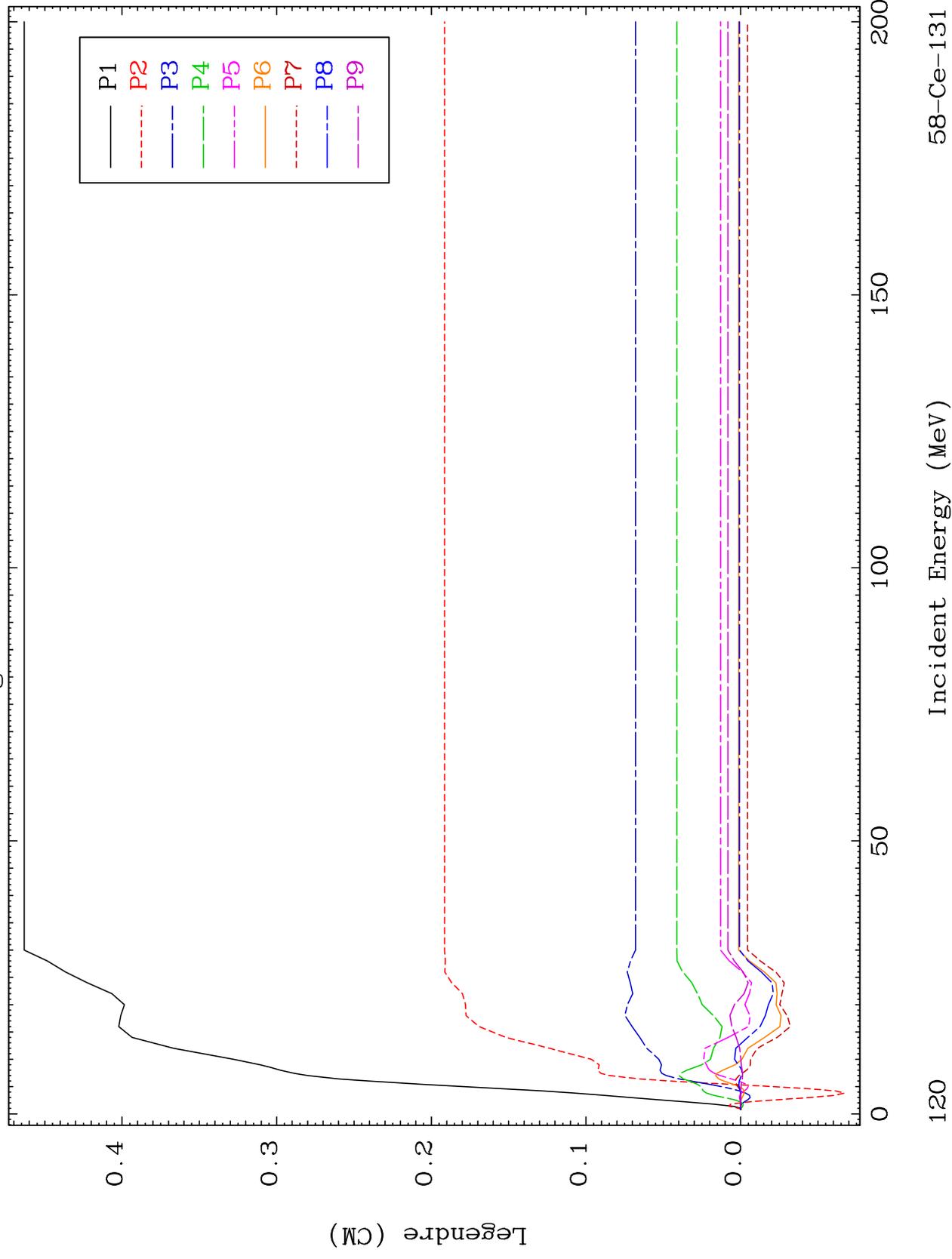
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



58-Ce-131

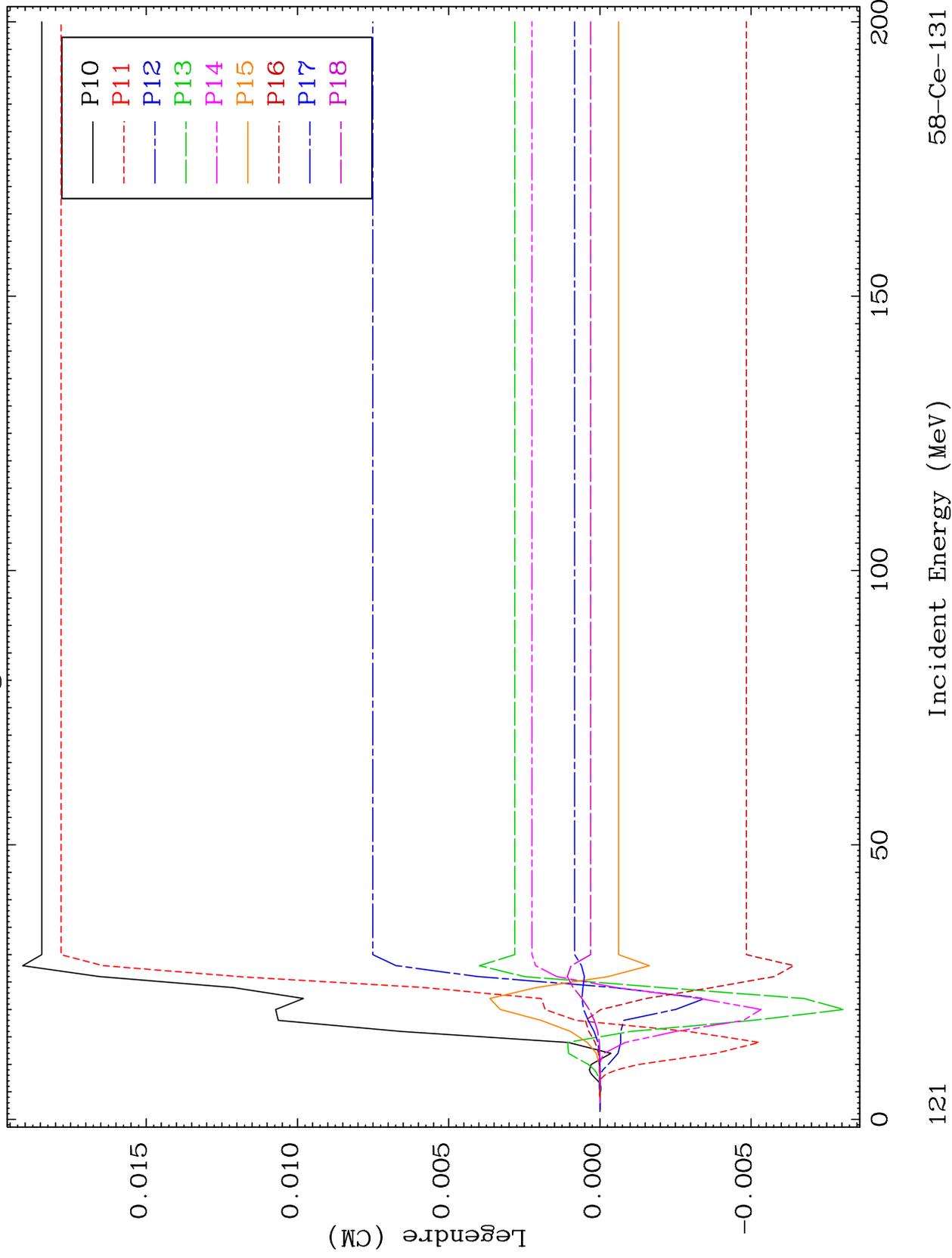
Incident Energy (MeV)

120

MAT 5810

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

58-Ce-131



58-Ce-131

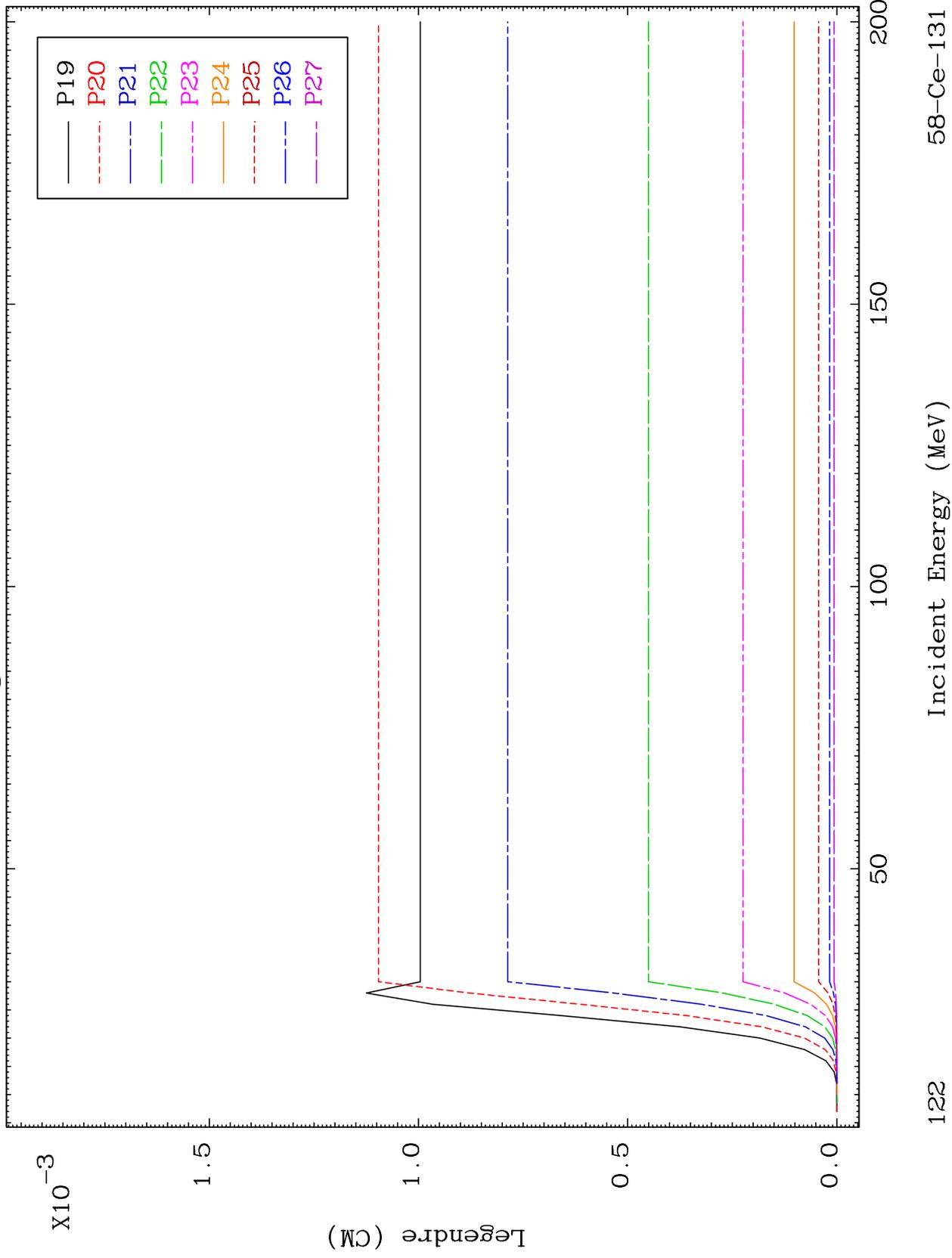
Incident Energy (MeV)

121

MAT 5810

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

58-Ce-131

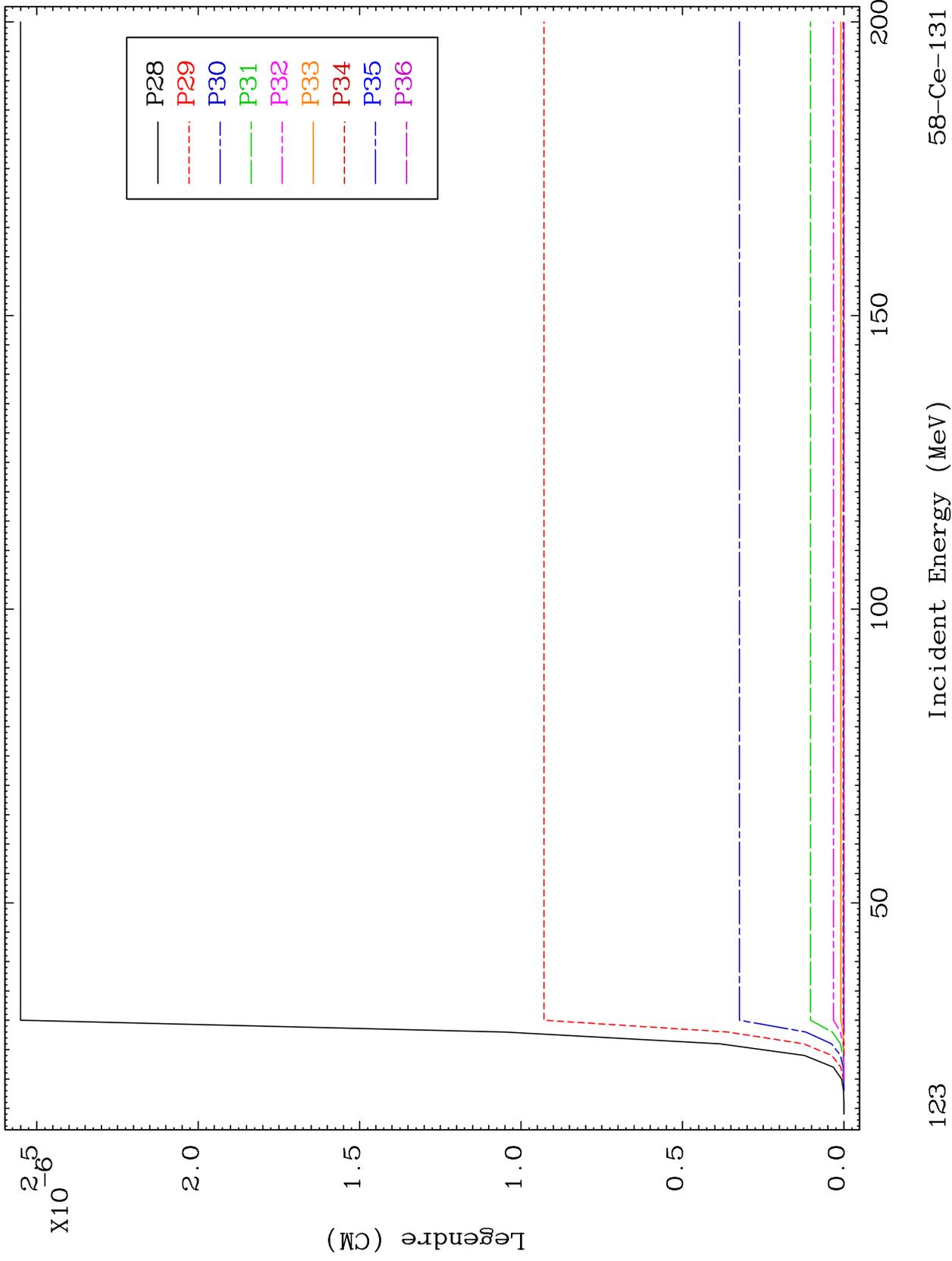


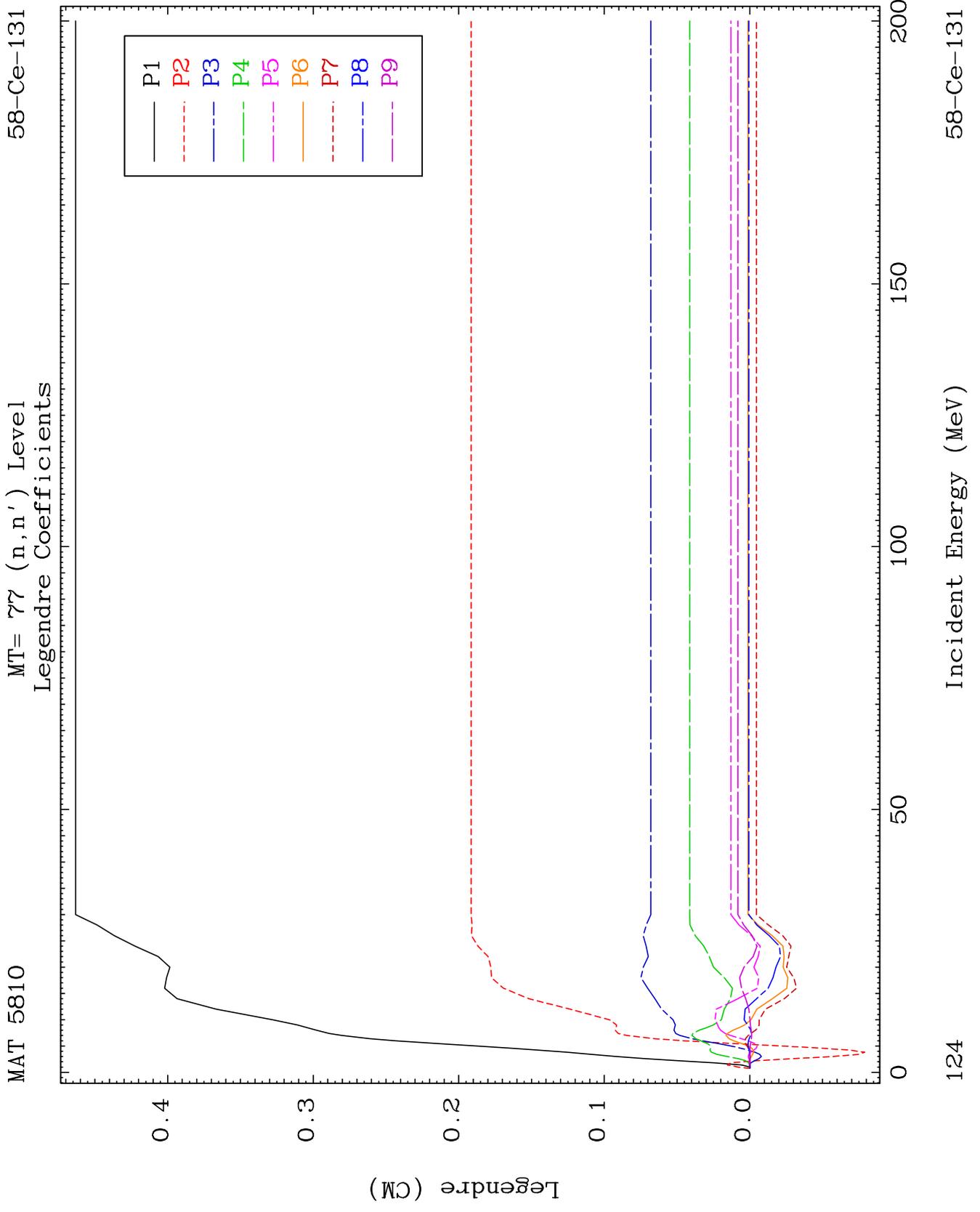
122

MAT 5810

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

58-Ce-131

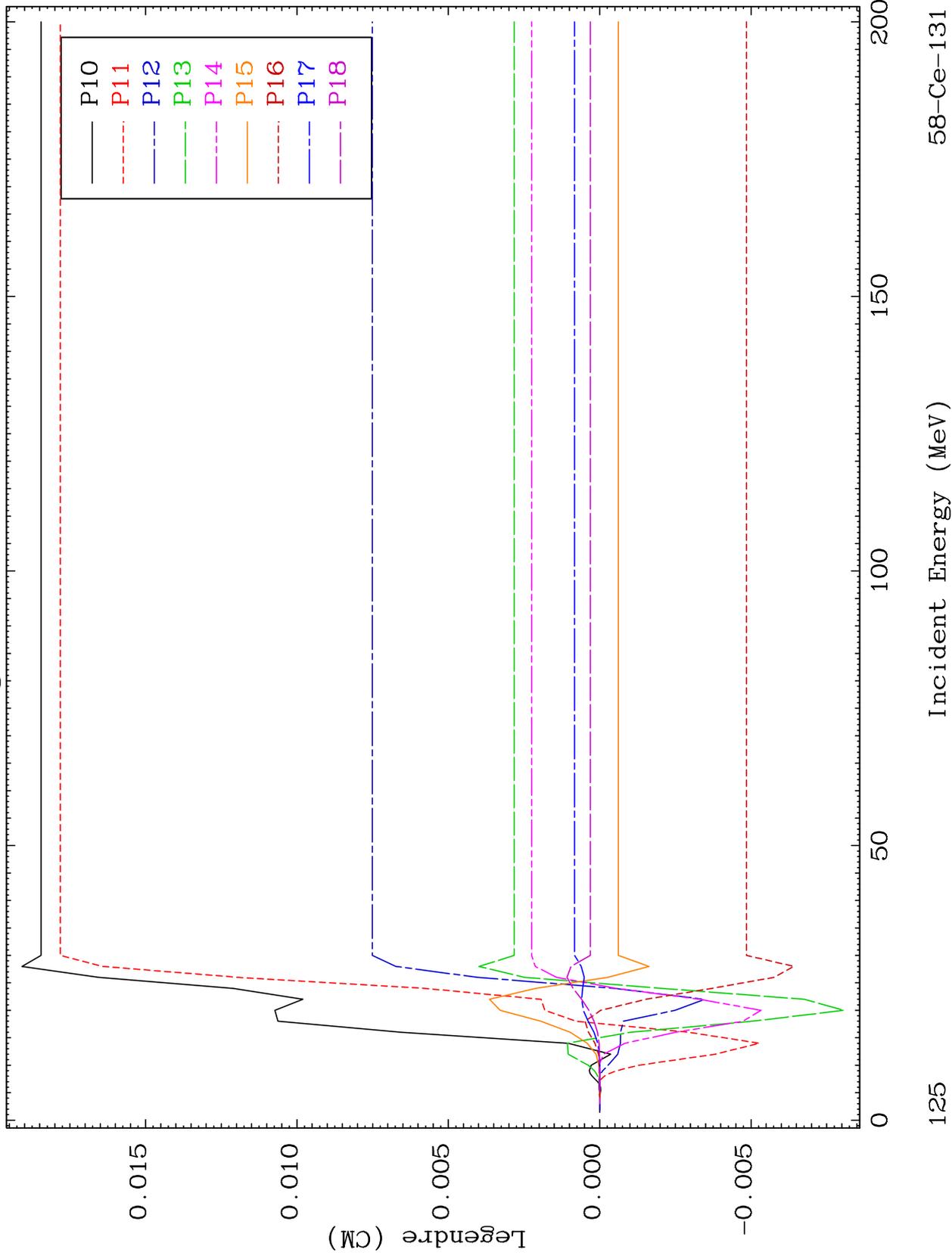




MAT 5810

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

58-Ce-131



58-Ce-131

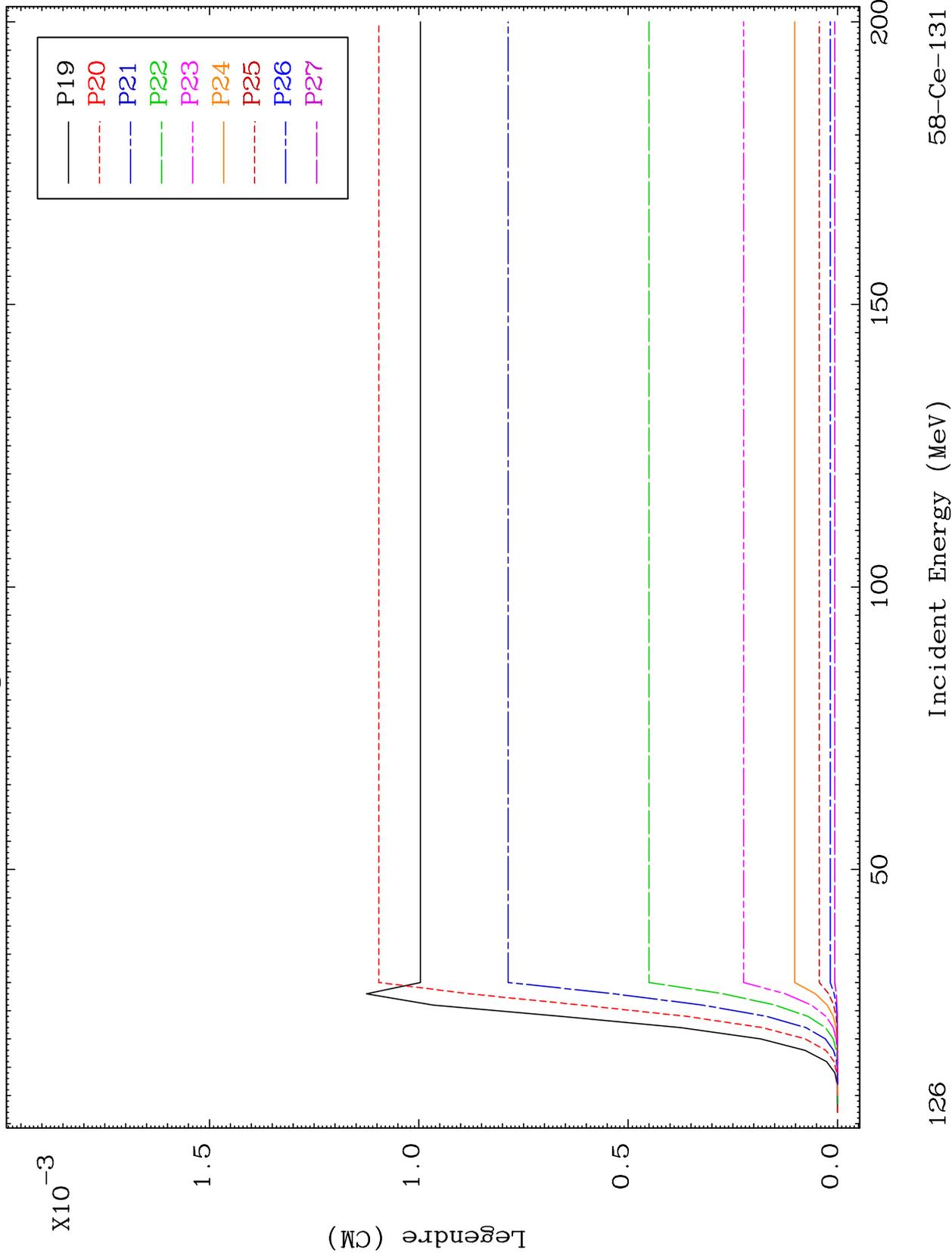
Incident Energy (MeV)

125

MAT 5810

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

58-Ce-131



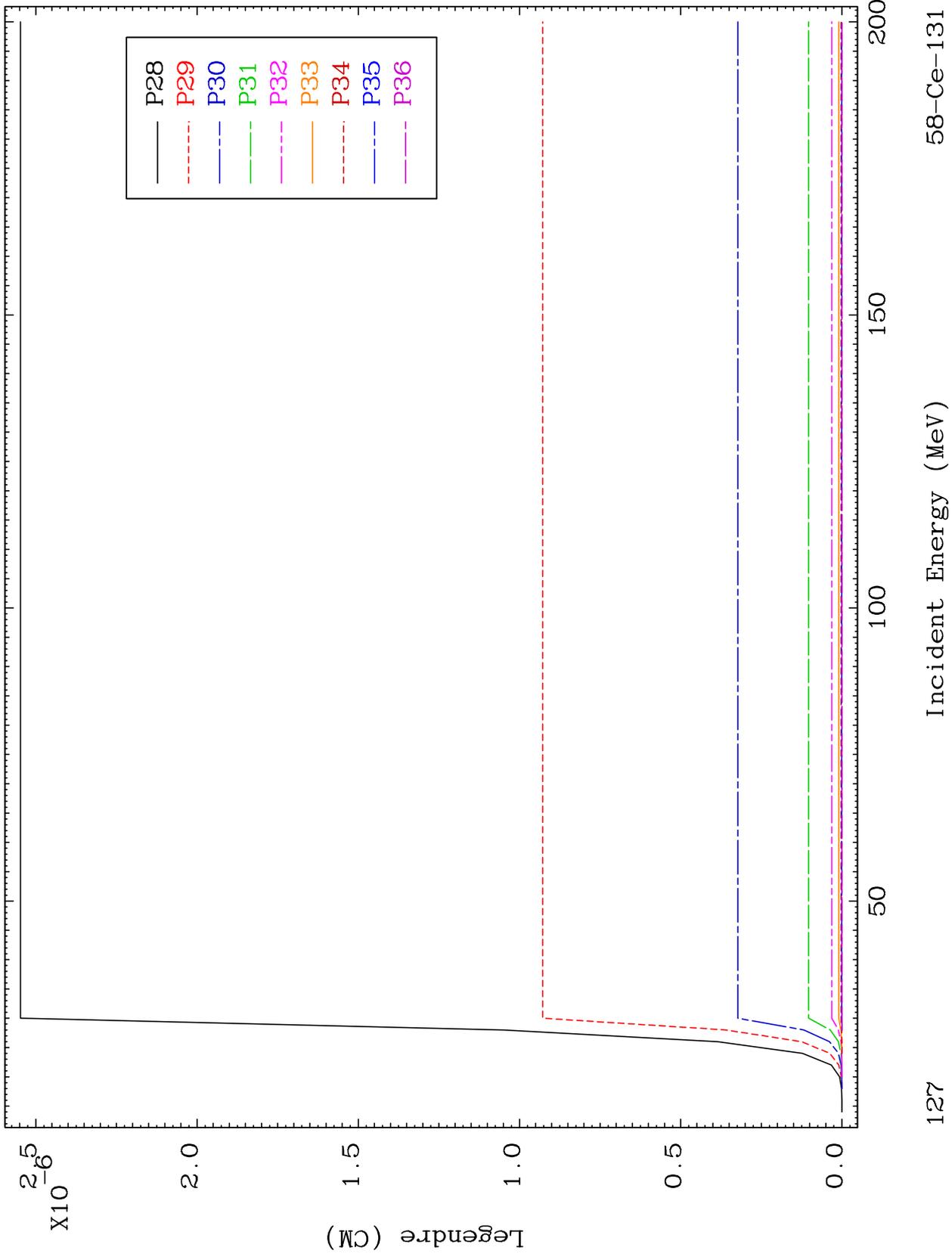
126

58-Ce-131

MAT 5810

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

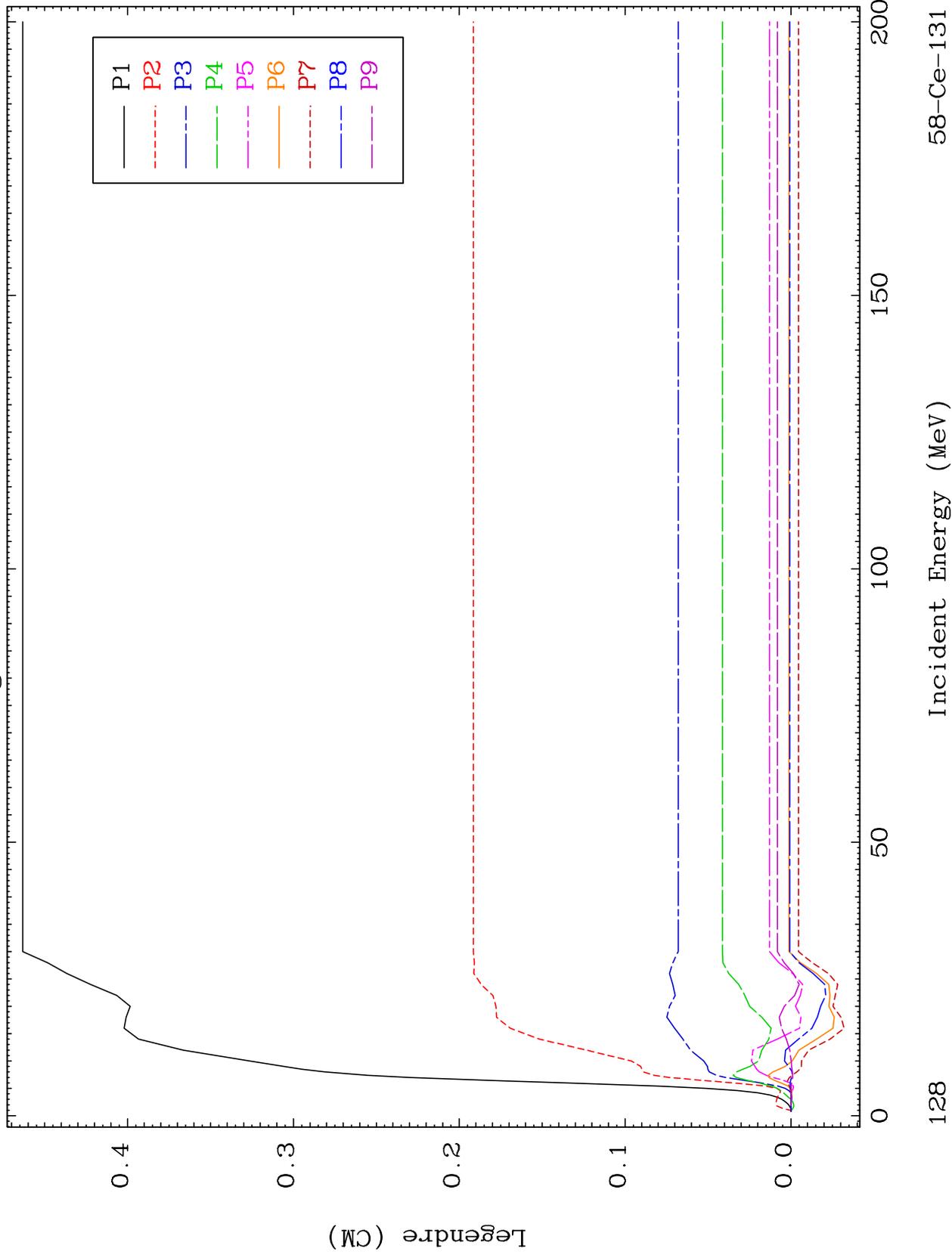
58-Ce-131



MAT 5810

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

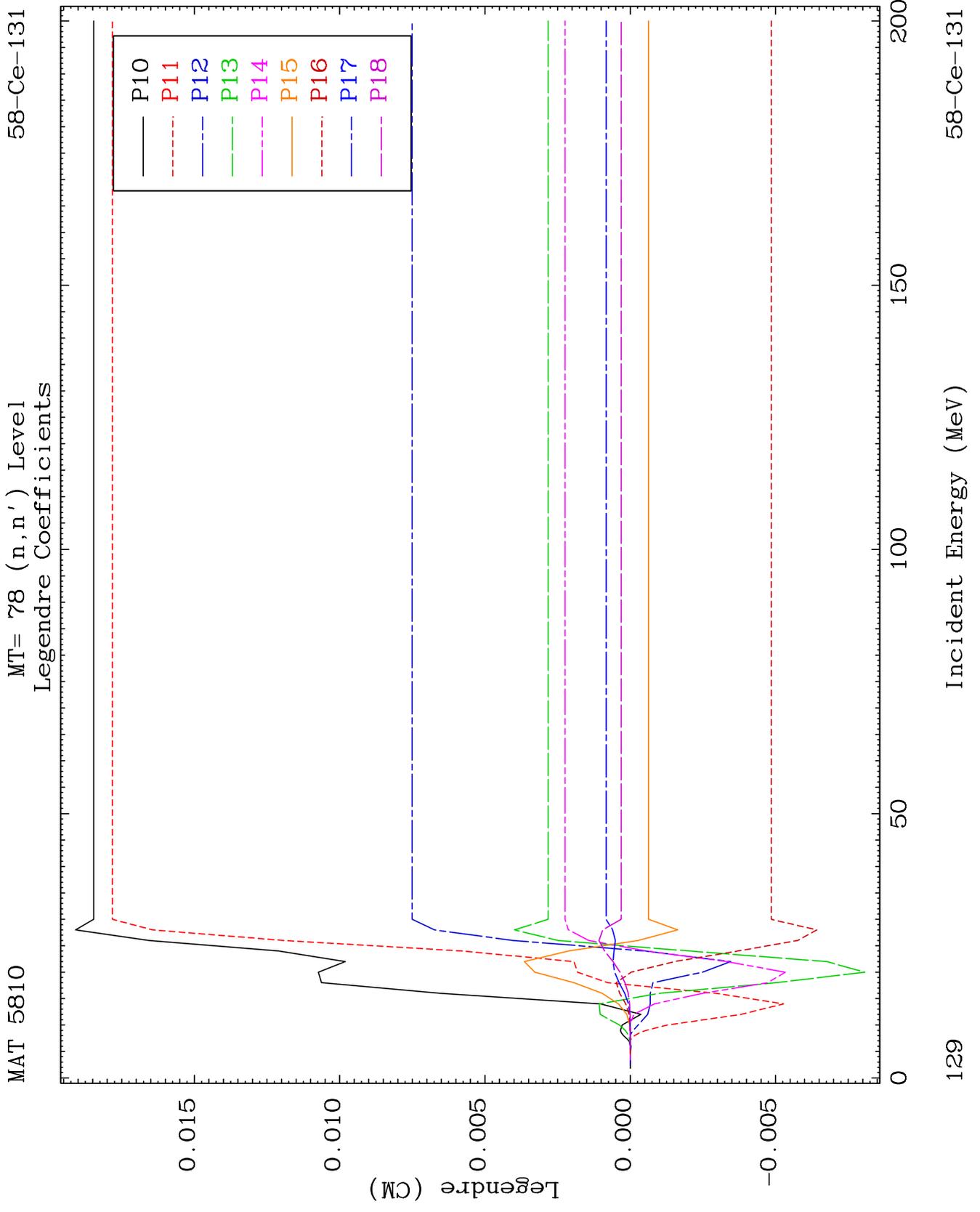
58-Ce-131



58-Ce-131

Incident Energy (MeV)

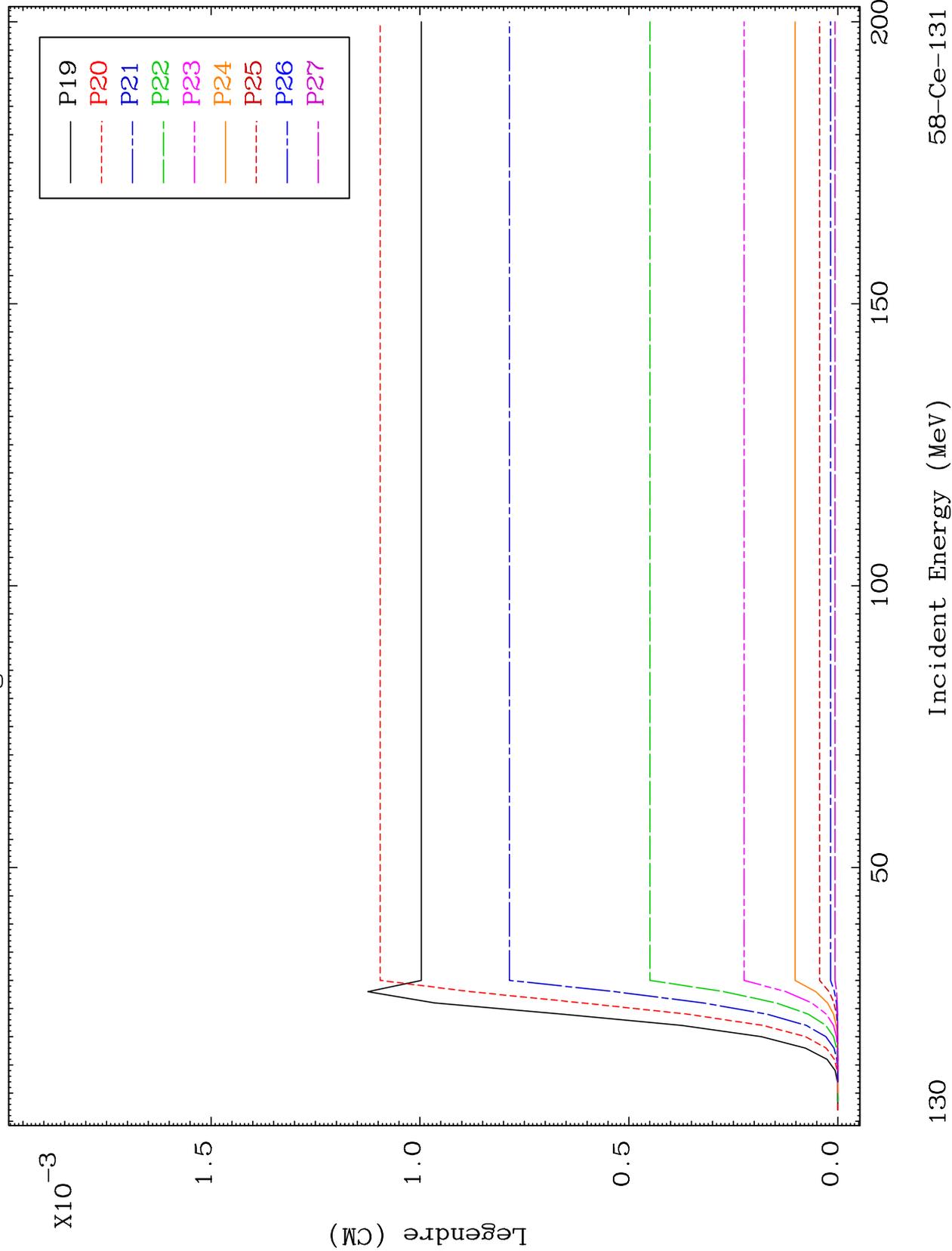
128



MAT 5810

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

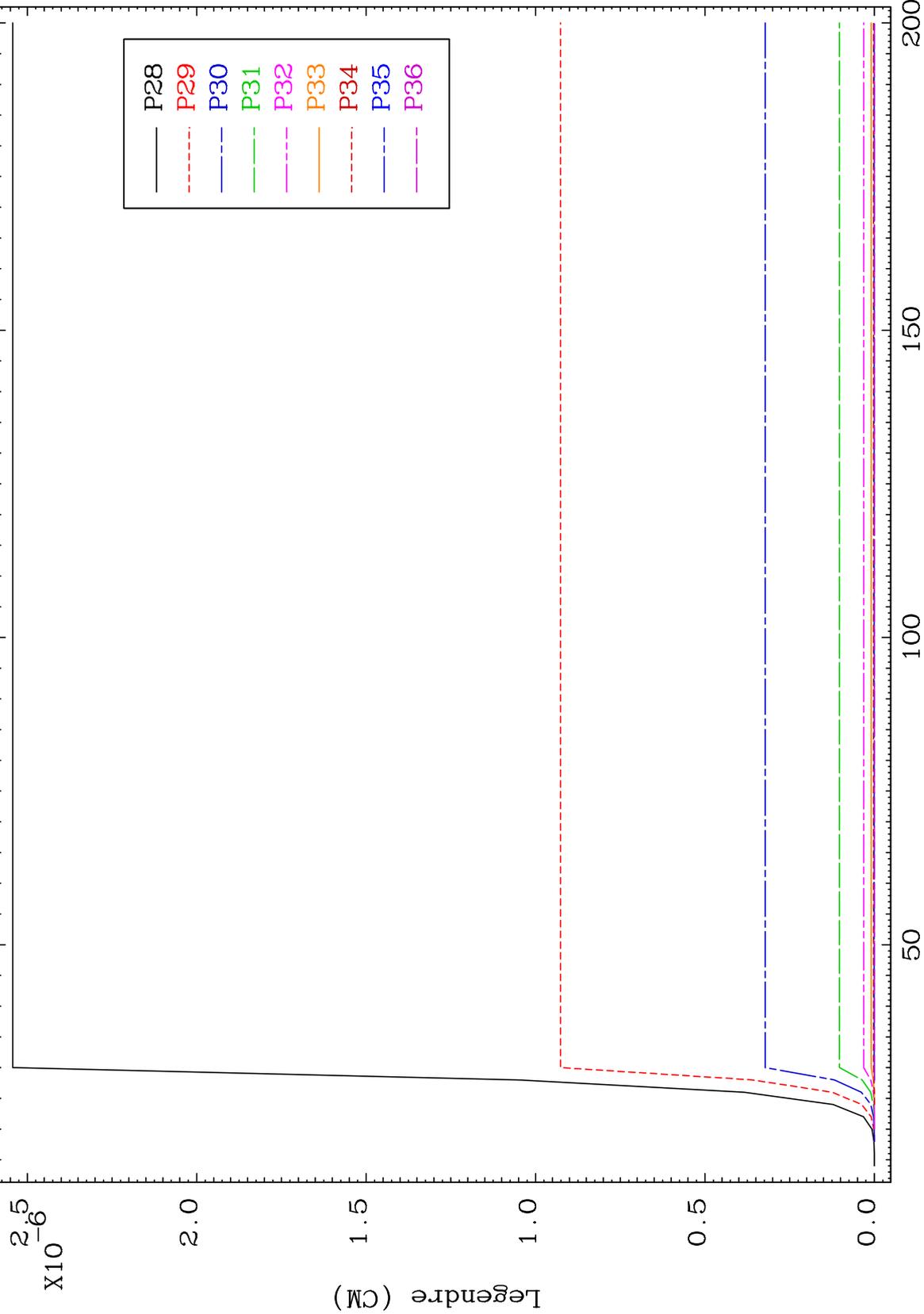
58-Ce-131



MAT 5810

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

58-Ce-131



131

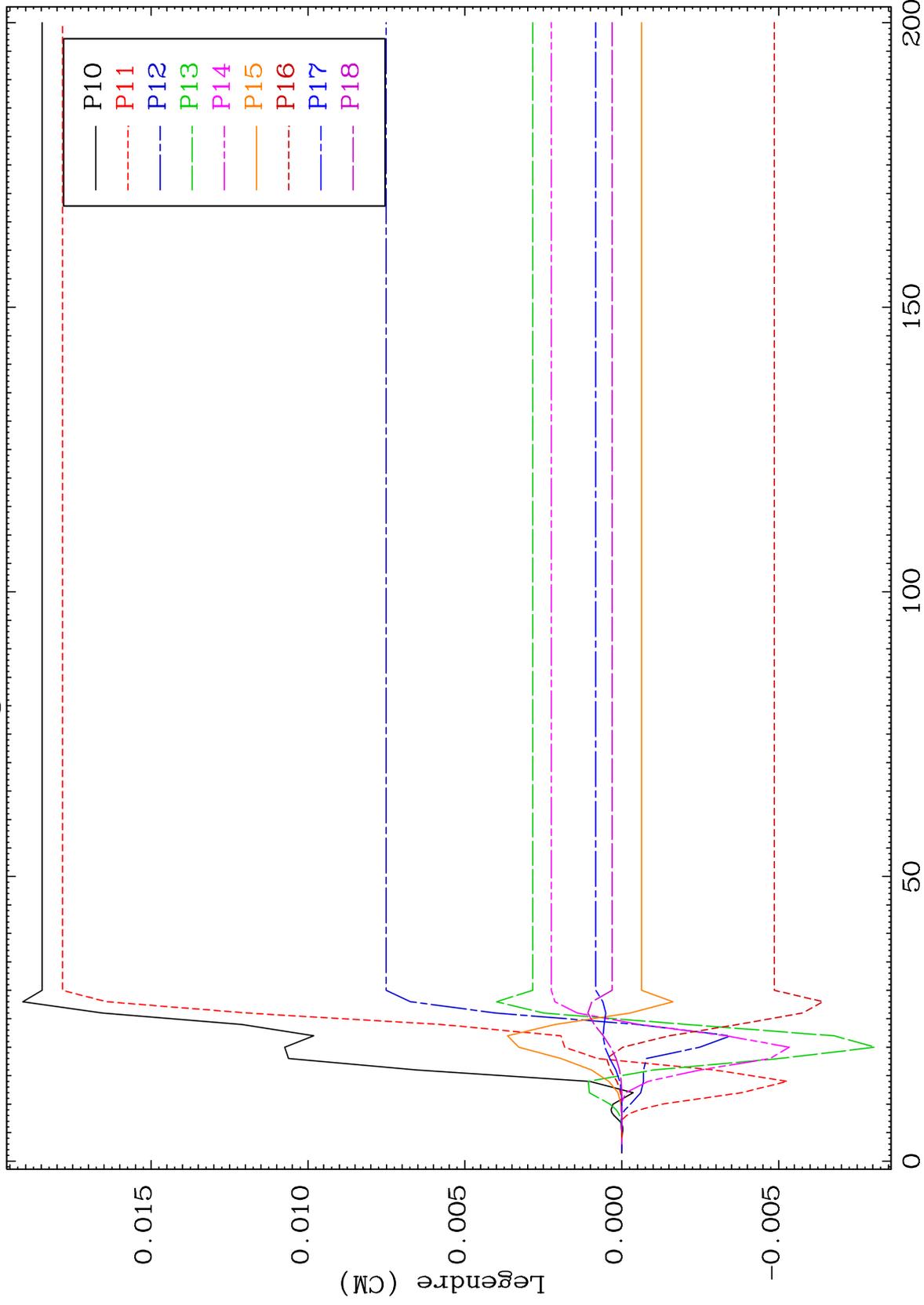
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



133

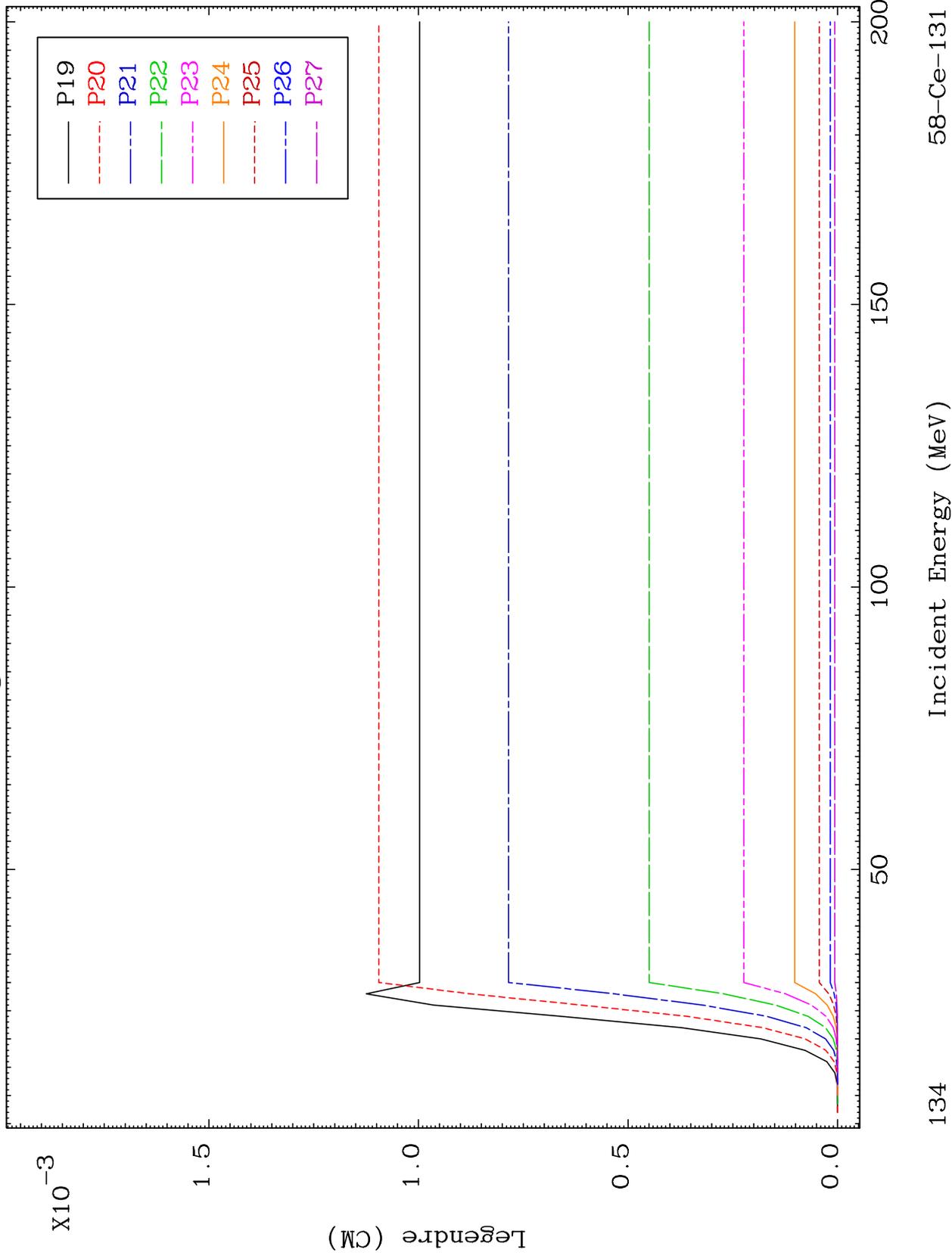
Incident Energy (MeV)

58-Ce-131

MAT 5810

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

58-Ce-131



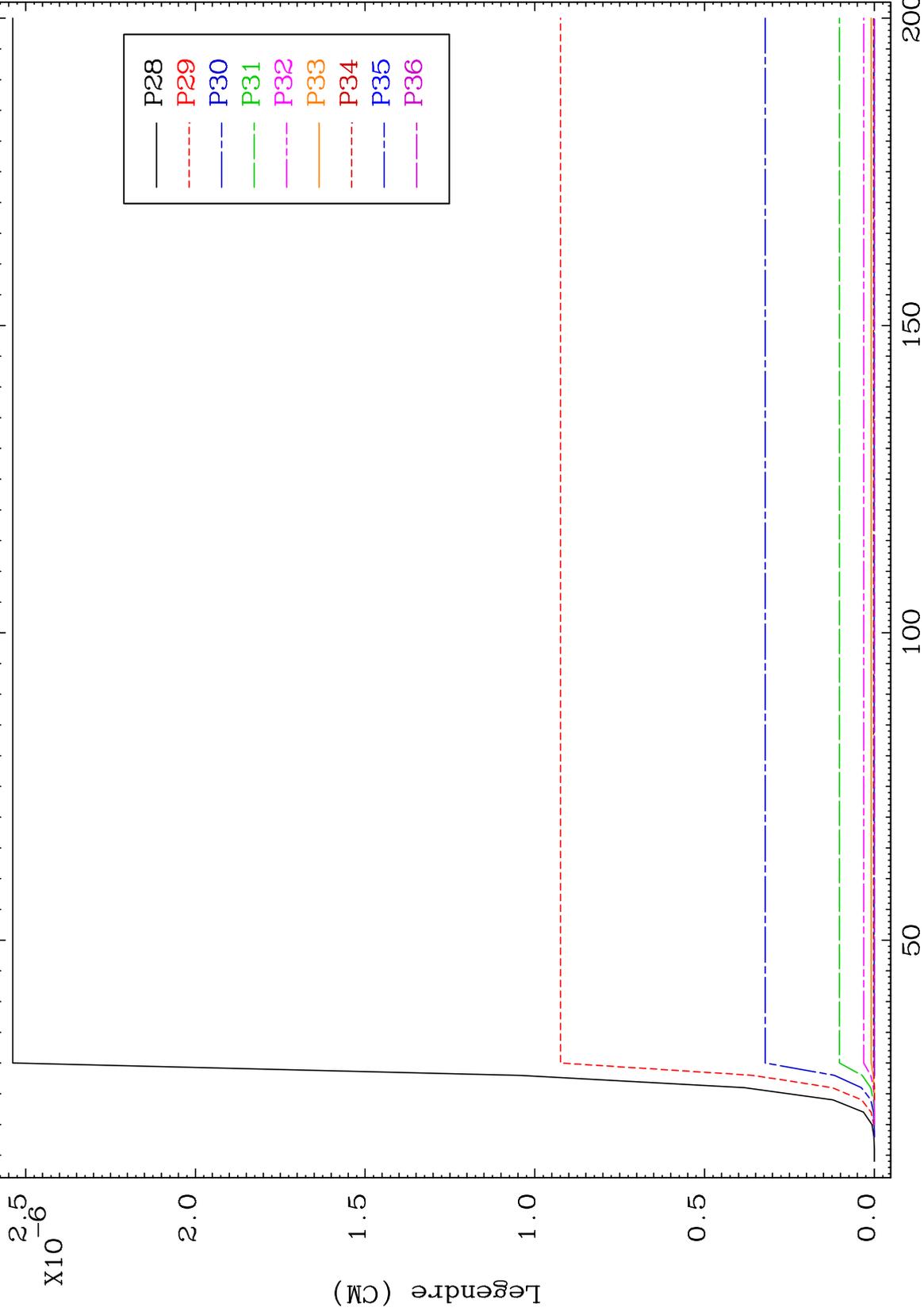
134

58-Ce-131

MAT 5810

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

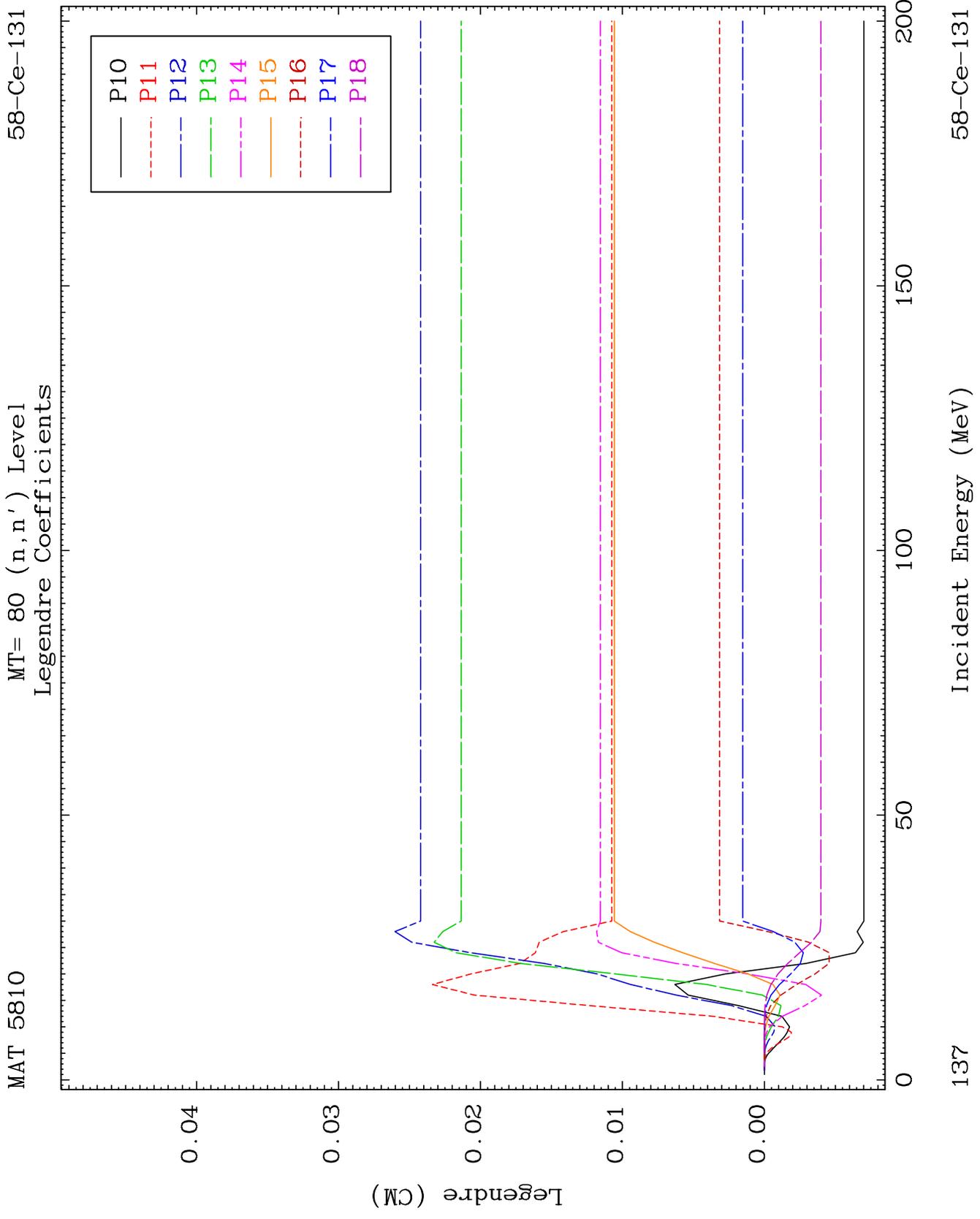
58-Ce-131



135

Incident Energy (MeV)

58-Ce-131



58-Ce-131

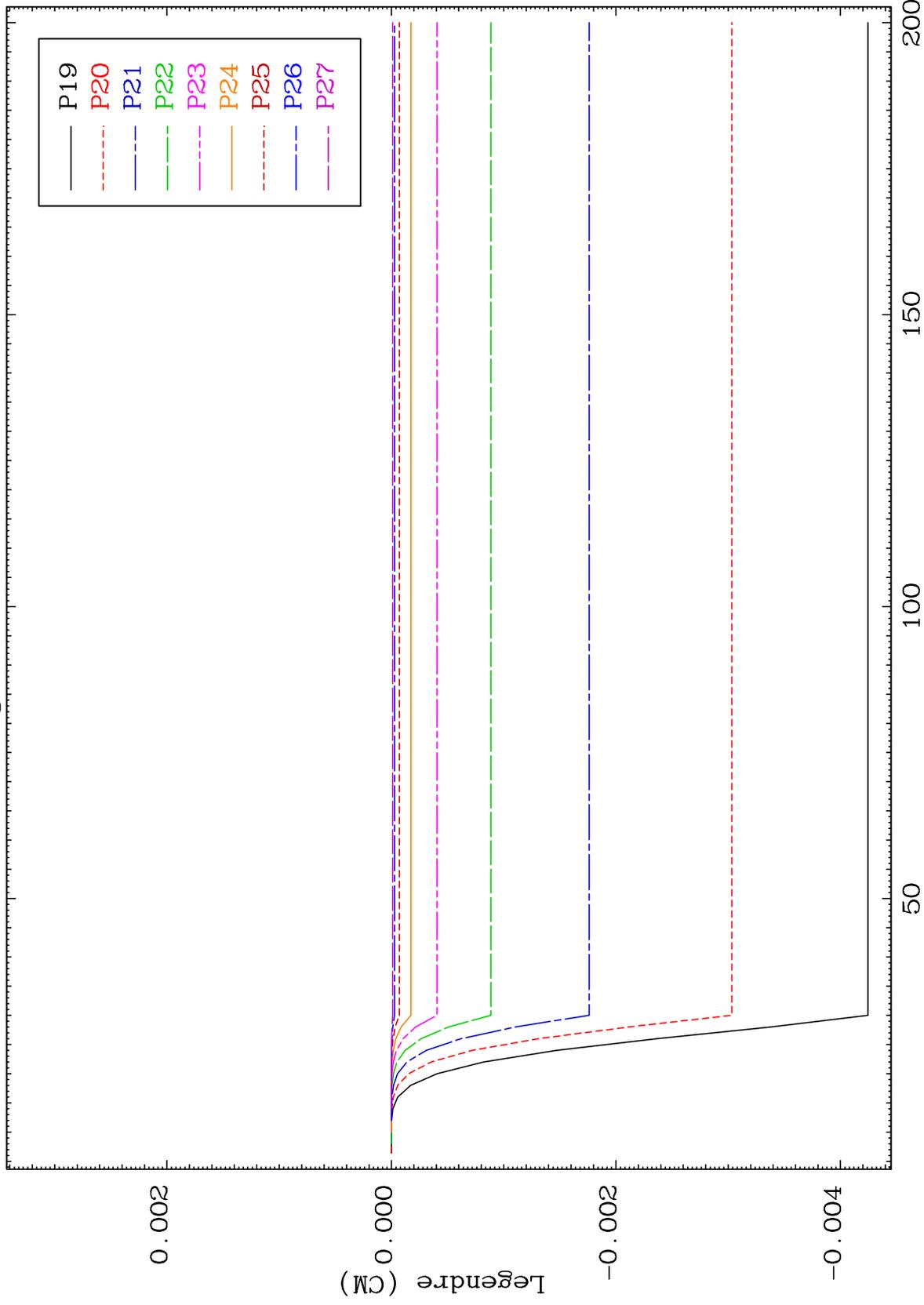
Incident Energy (MeV)

137

MAT 5810

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

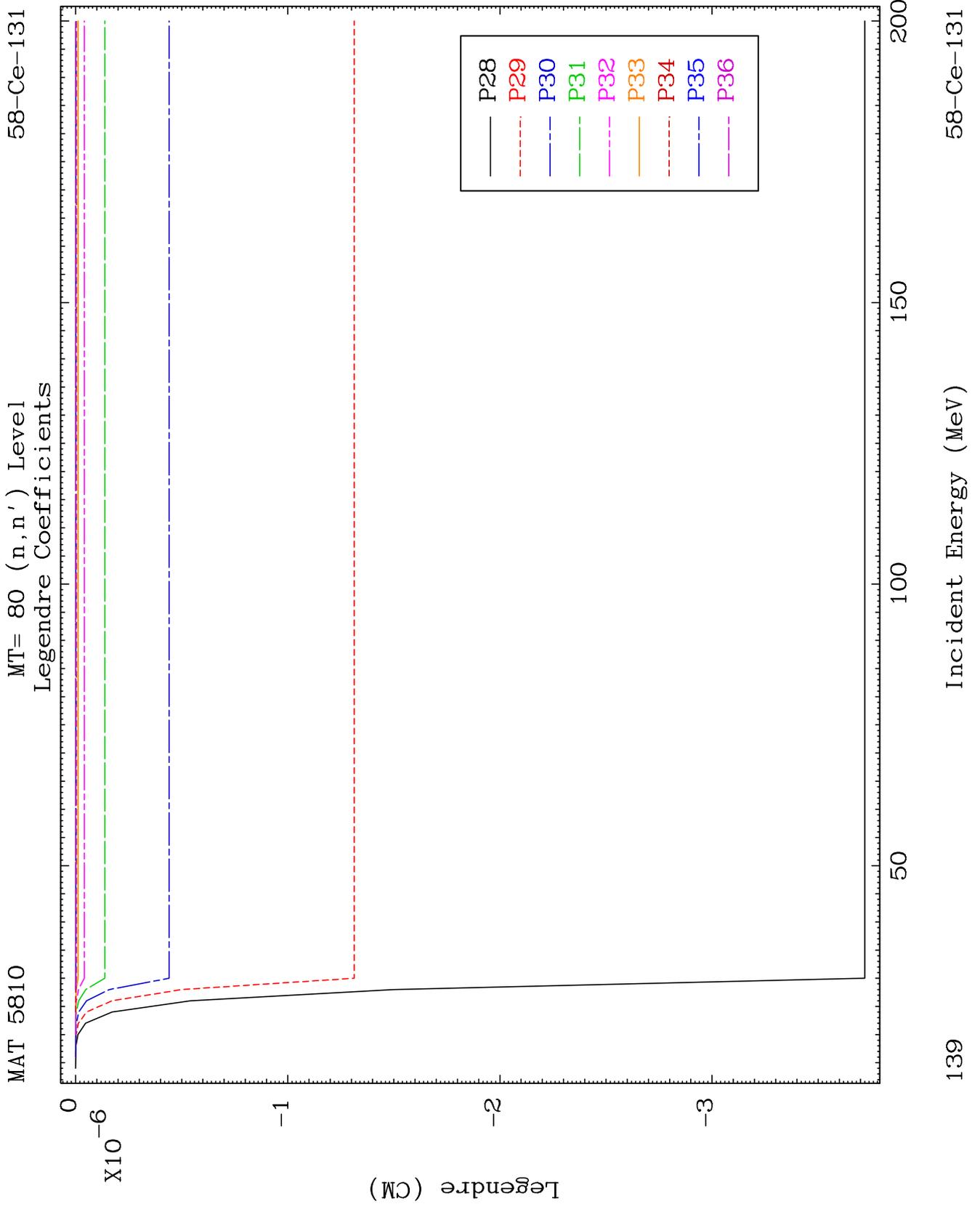
58-Ce-131



138

Incident Energy (MeV)

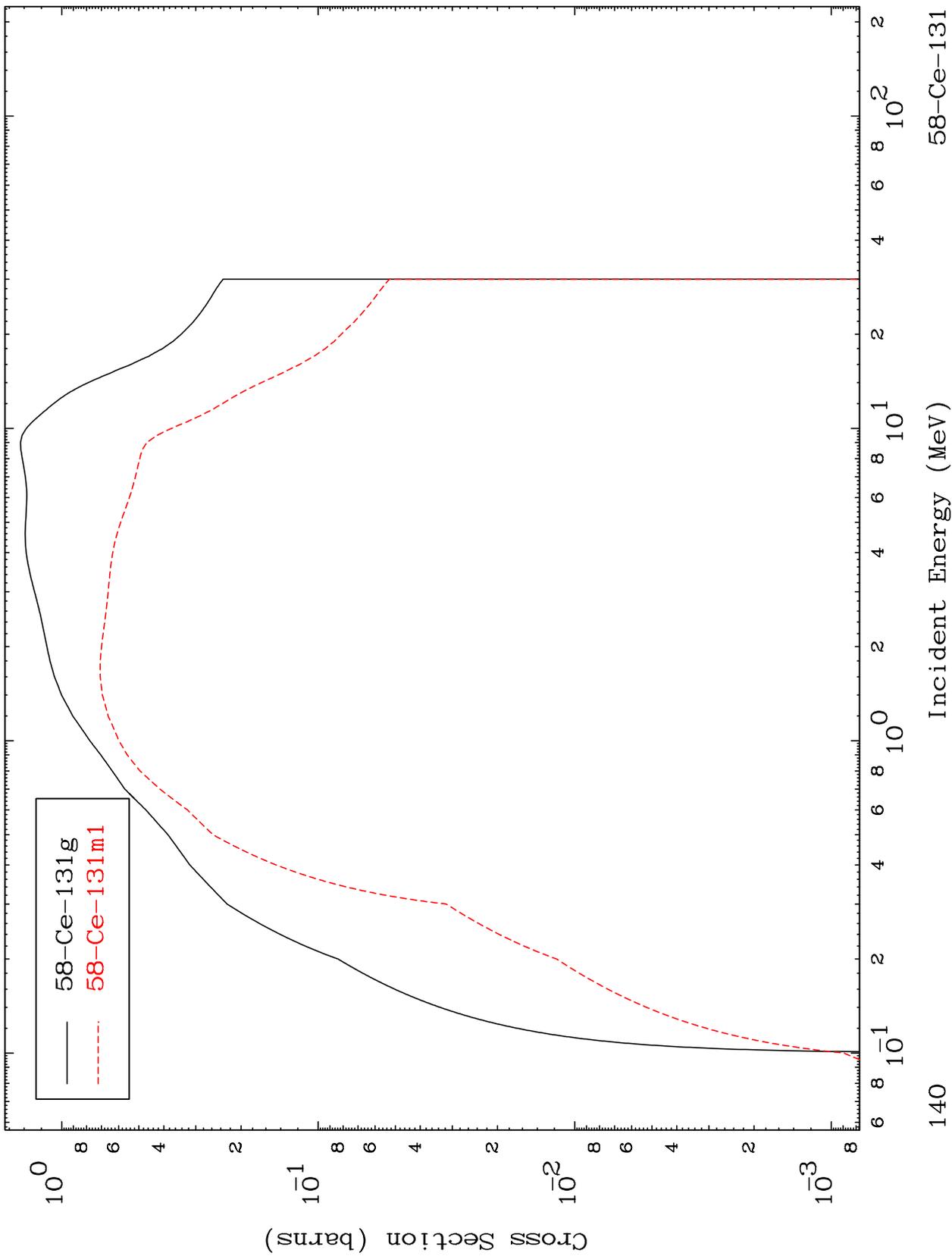
58-Ce-131



MAT 5810

58-Ce-131

Radionuclide Production Cross Section



58-Ce-131g
58-Ce-131m1

140

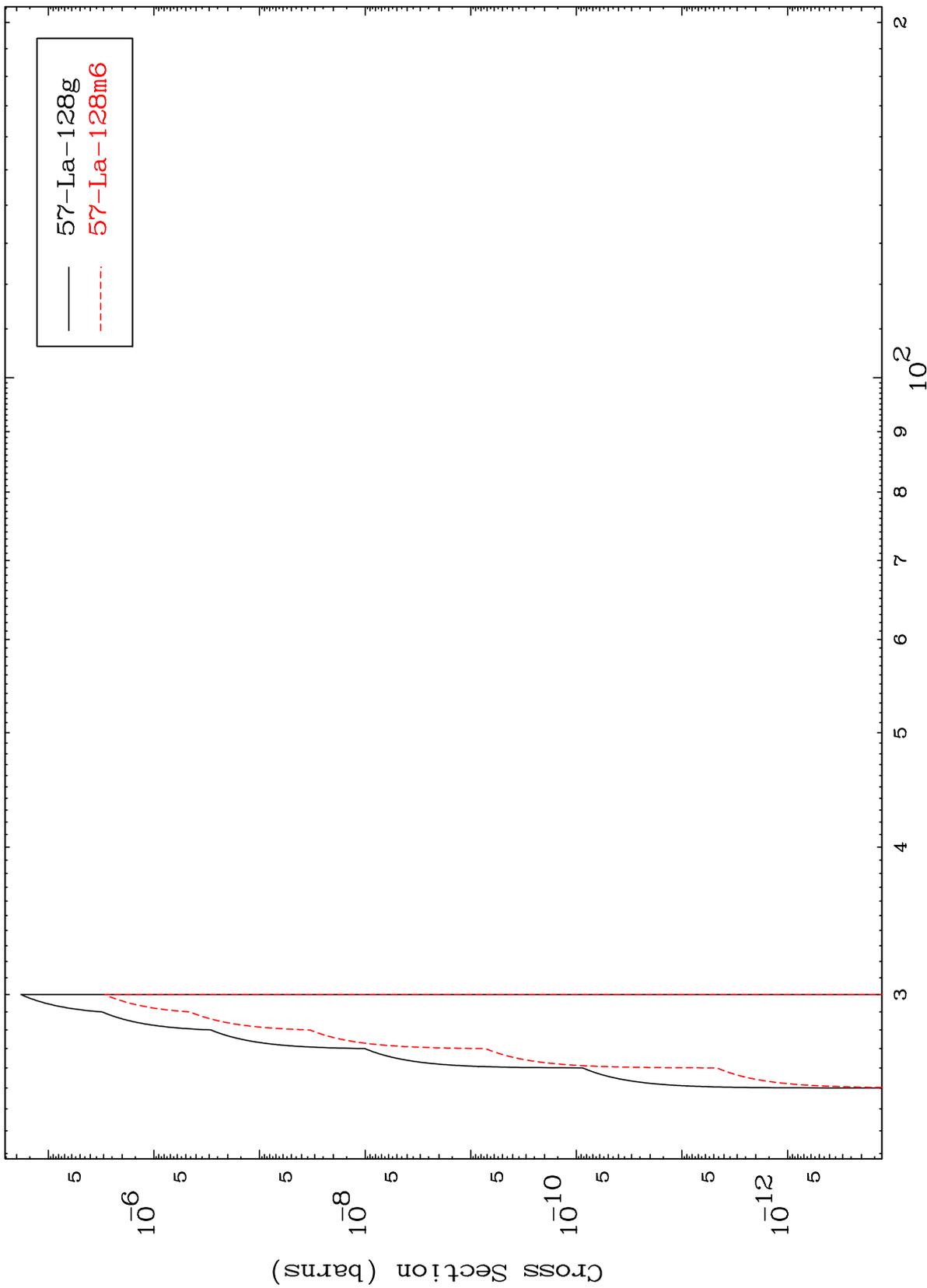
58-Ce-131

MAT 5810

(n,2n) d

58-Ce-131

Radionuclide Production Cross Section



57-La-128g
57-La-128m6

141

Incident Energy (MeV)

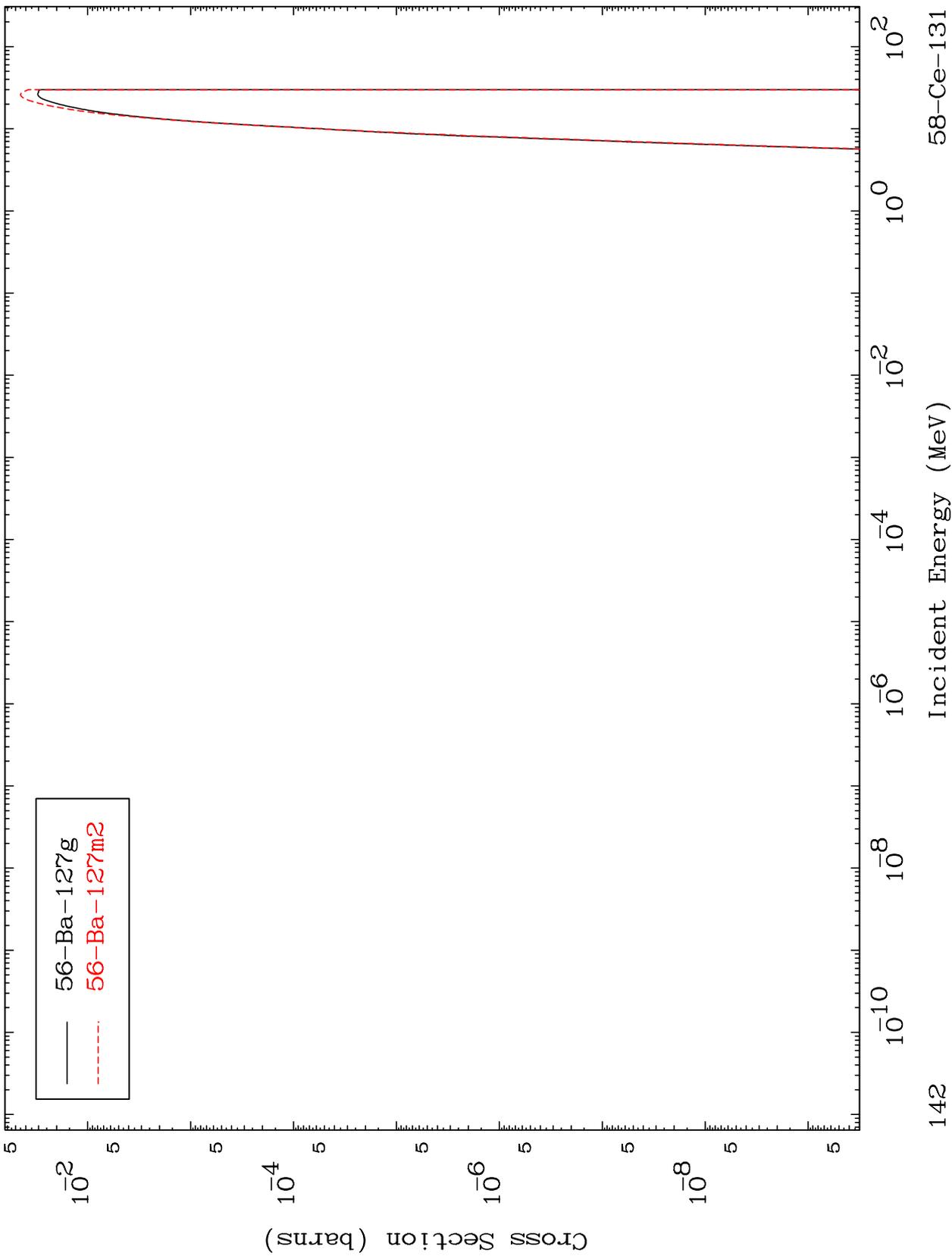
58-Ce-131

MAT 5810

(n,n') α

58-Ce-131

Radionuclide Production Cross Section

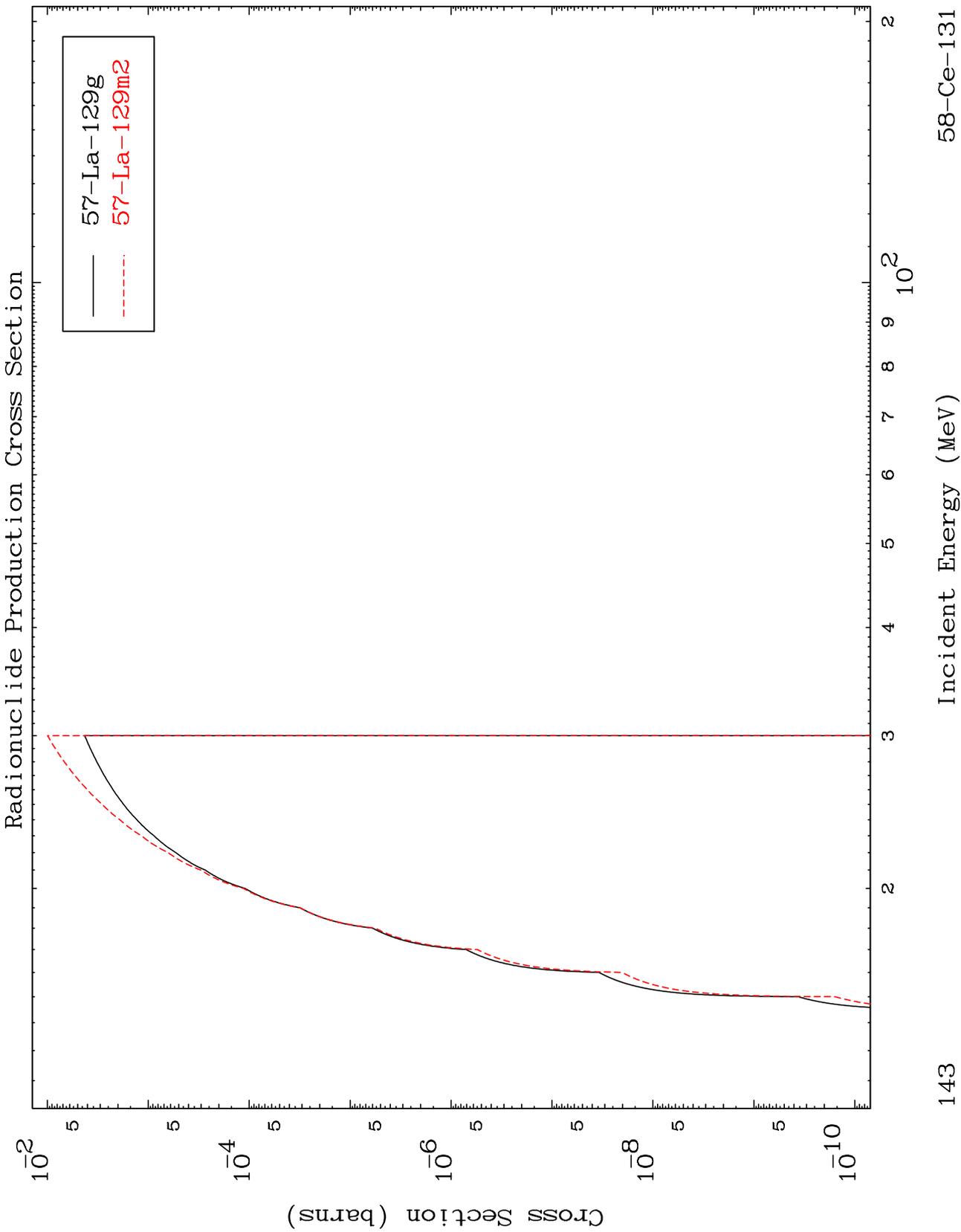


56-Ba-127g
56-Ba-127m2

MAT 5810

(n,n') d

58-Ce-131



143

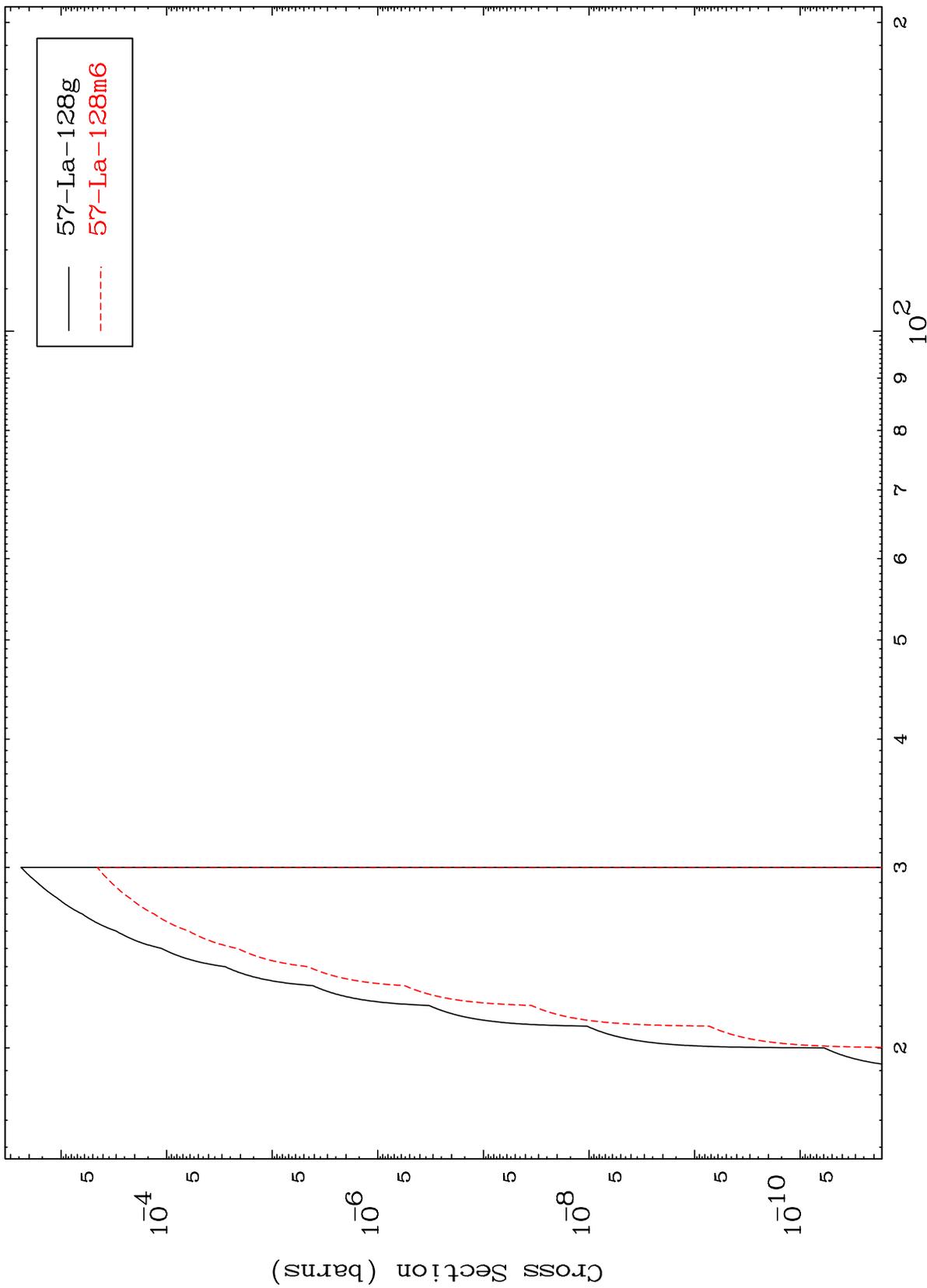
58-Ce-131

MAT 5810

(n,n') t

58-Ce-131

Radionuclide Production Cross Section



144

Incident Energy (MeV)

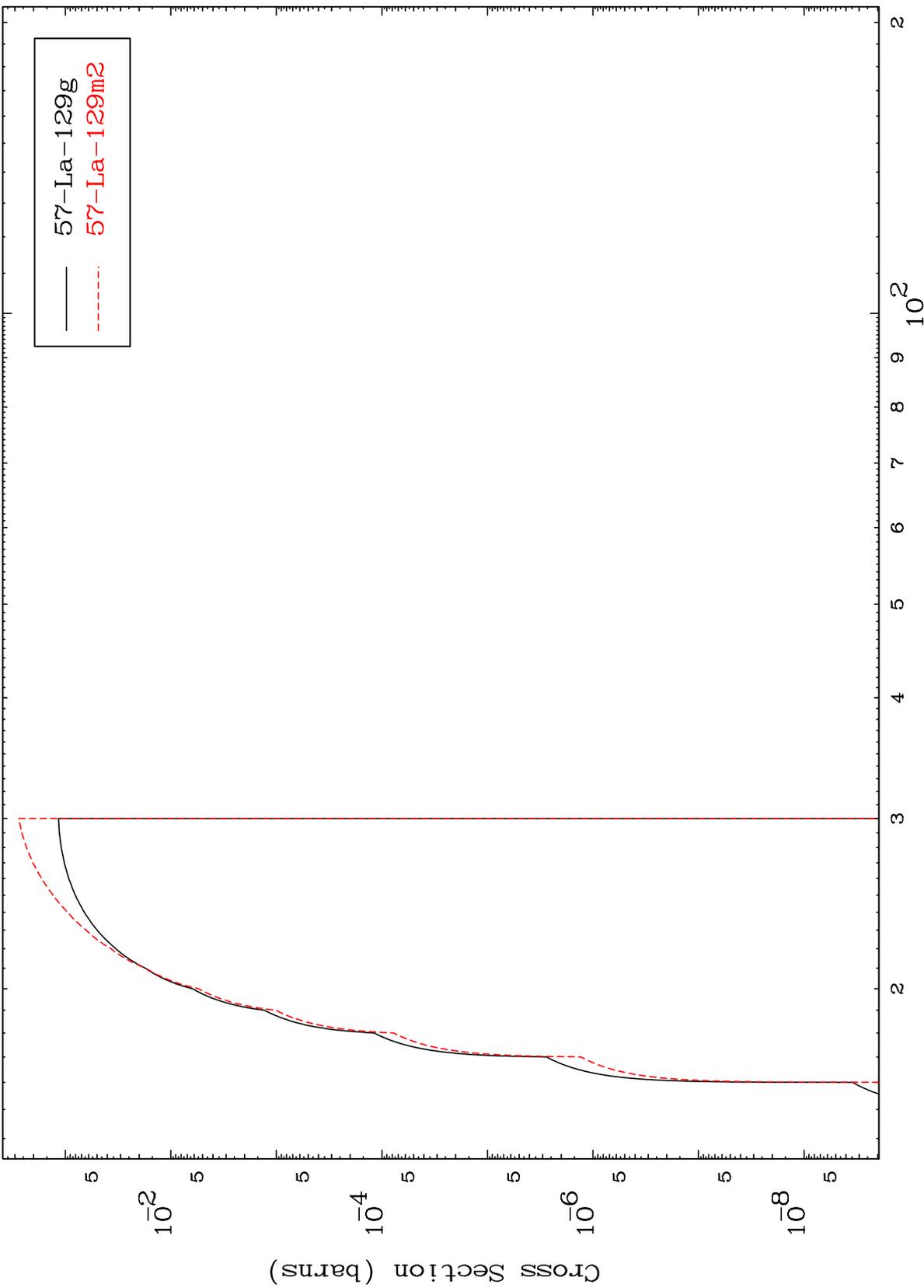
58-Ce-131

MAT 5810

(n,2n) p

58-Ce-131

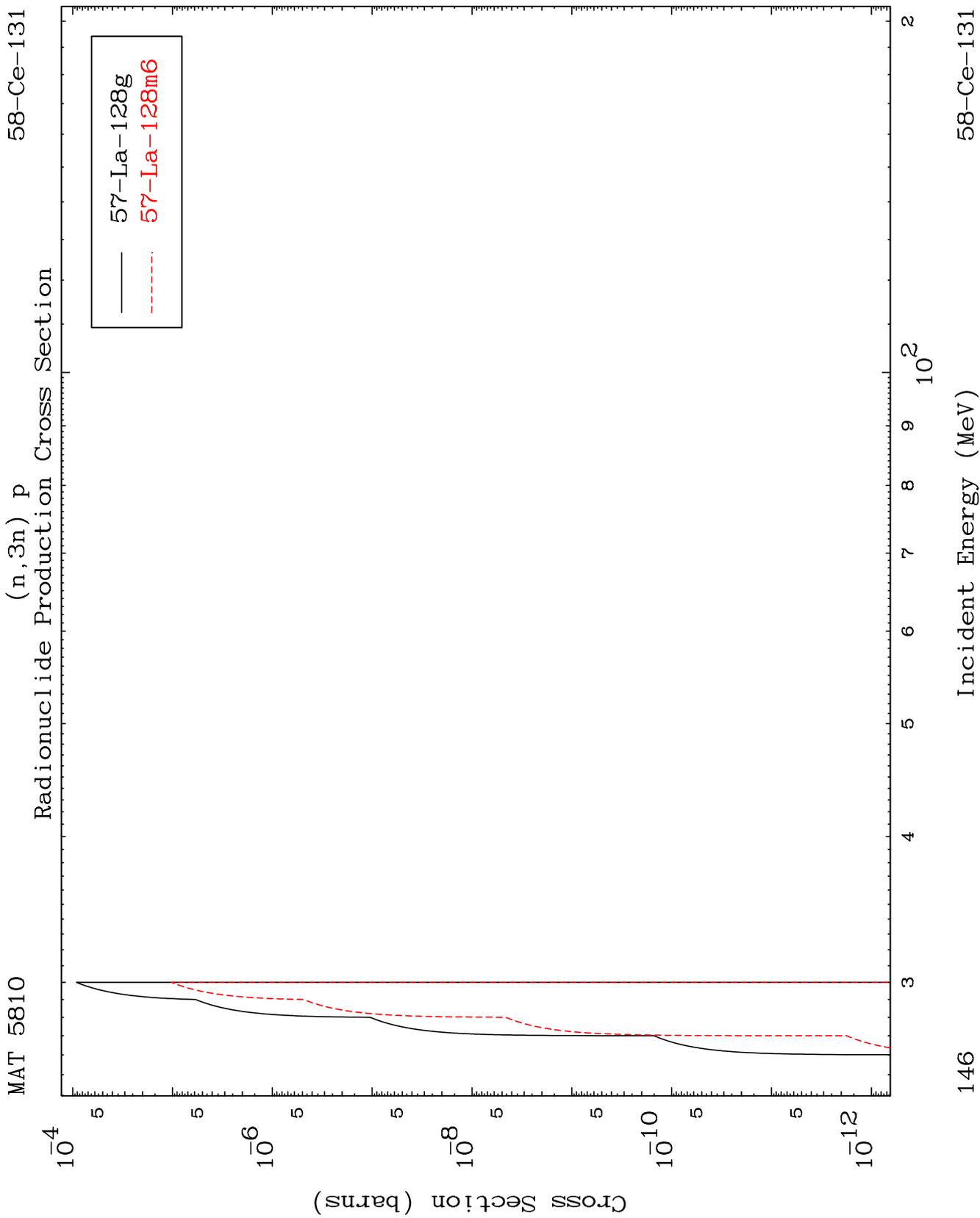
Radionuclide Production Cross Section



145

Incident Energy (MeV)

58-Ce-131

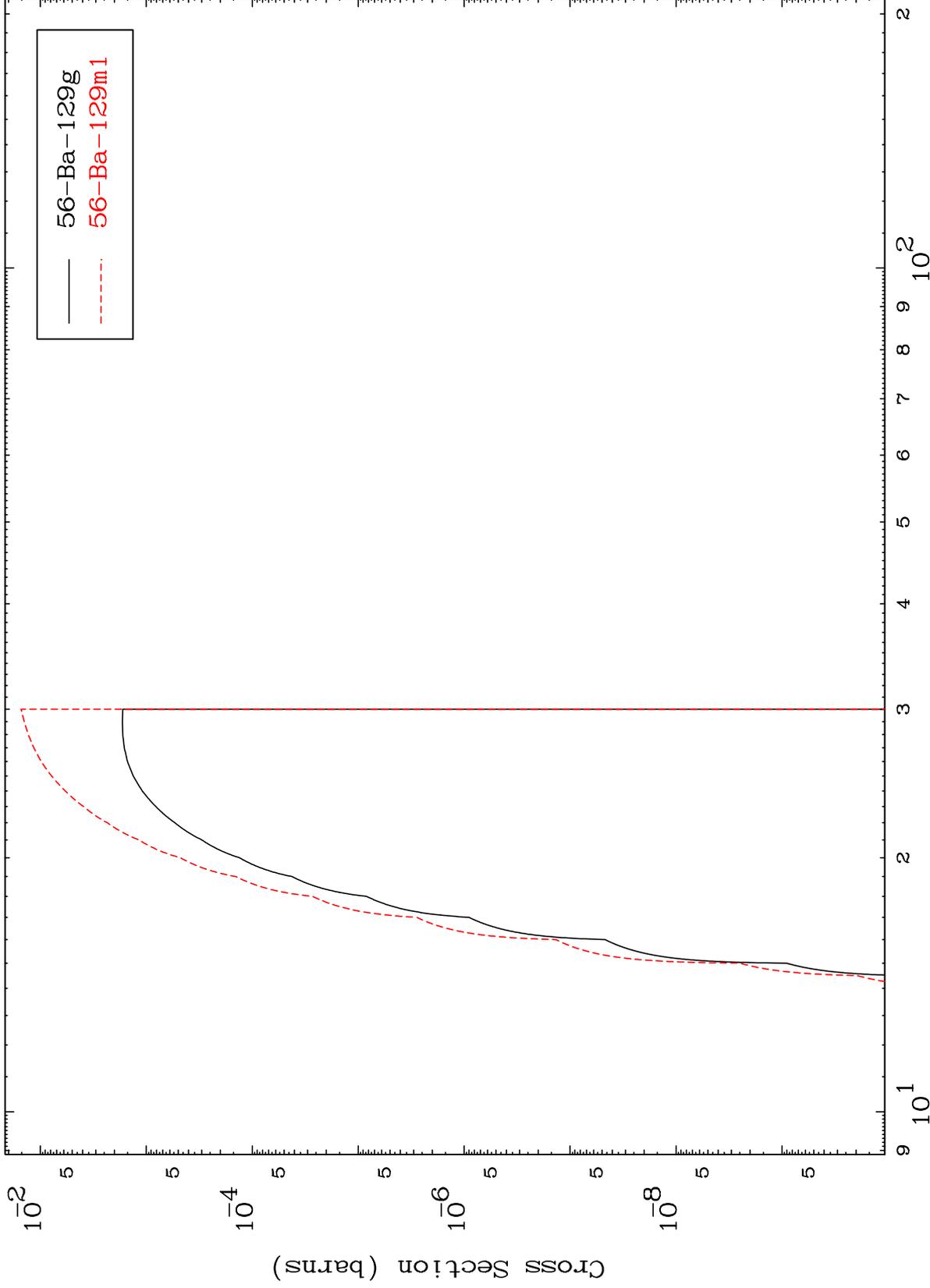


MAT 5810

(n,2n) p

58-Ce-131

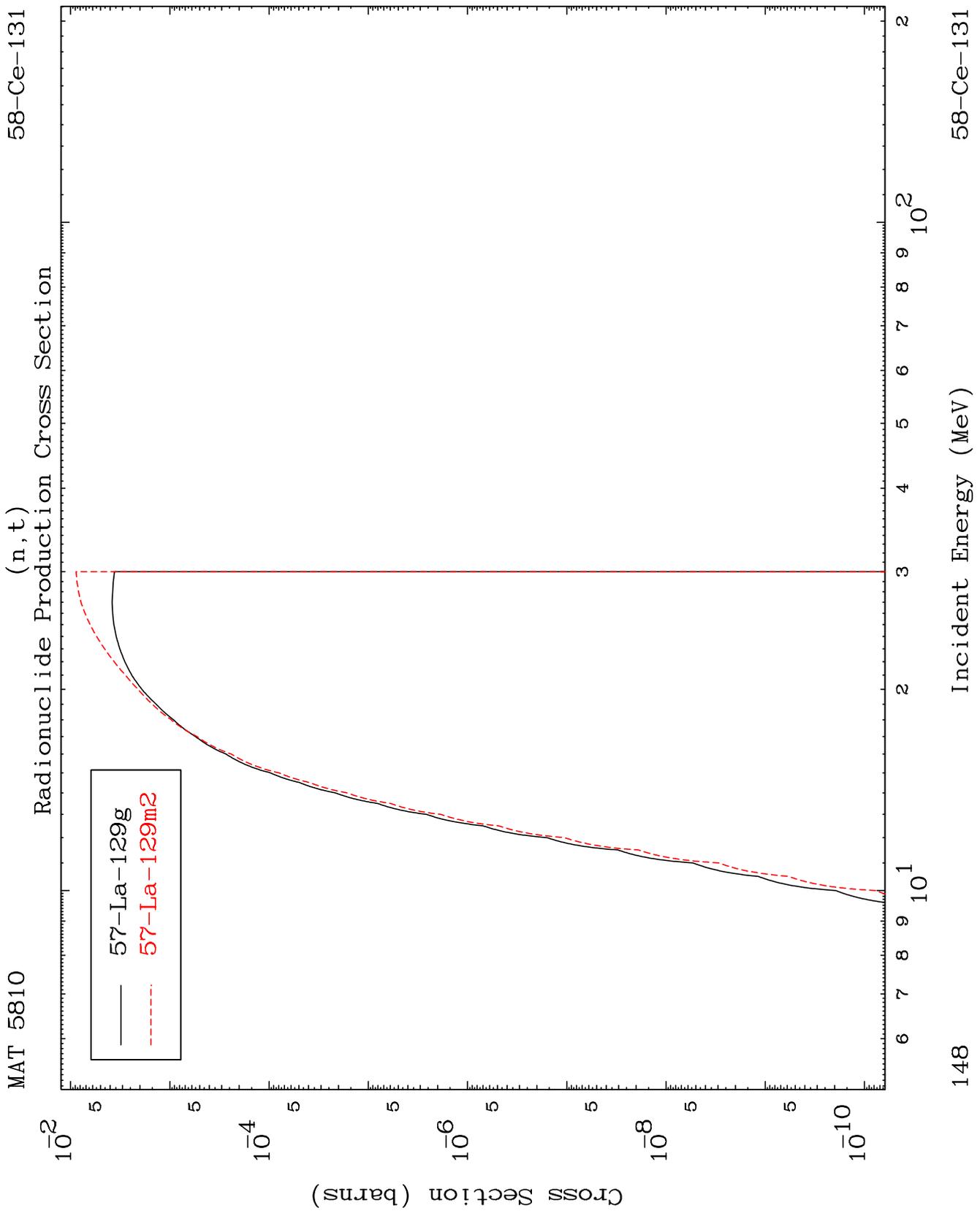
Radionuclide Production Cross Section



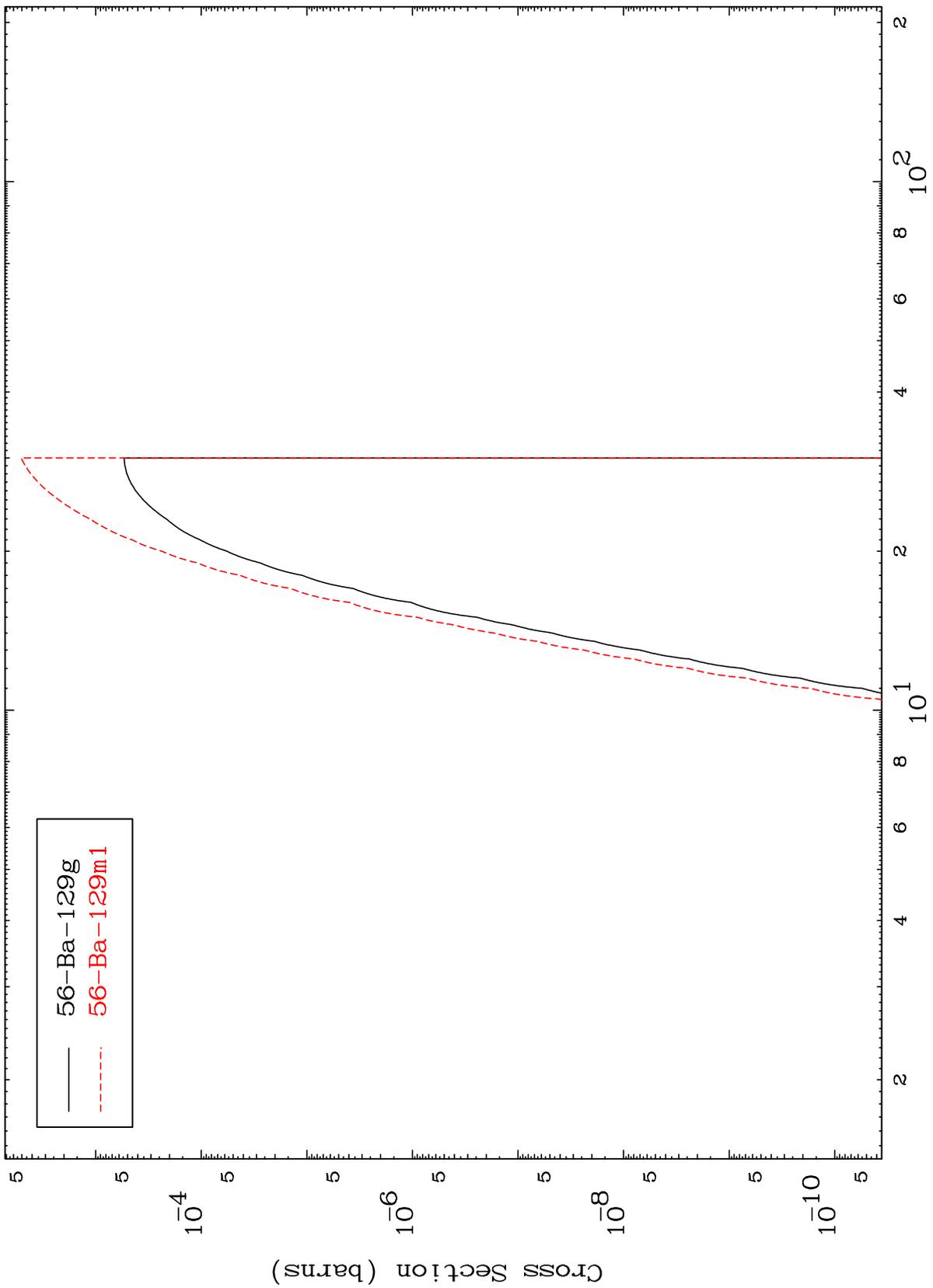
147

Incident Energy (MeV)

58-Ce-131



Radionuclide Production Cross Section
(n,He-3)

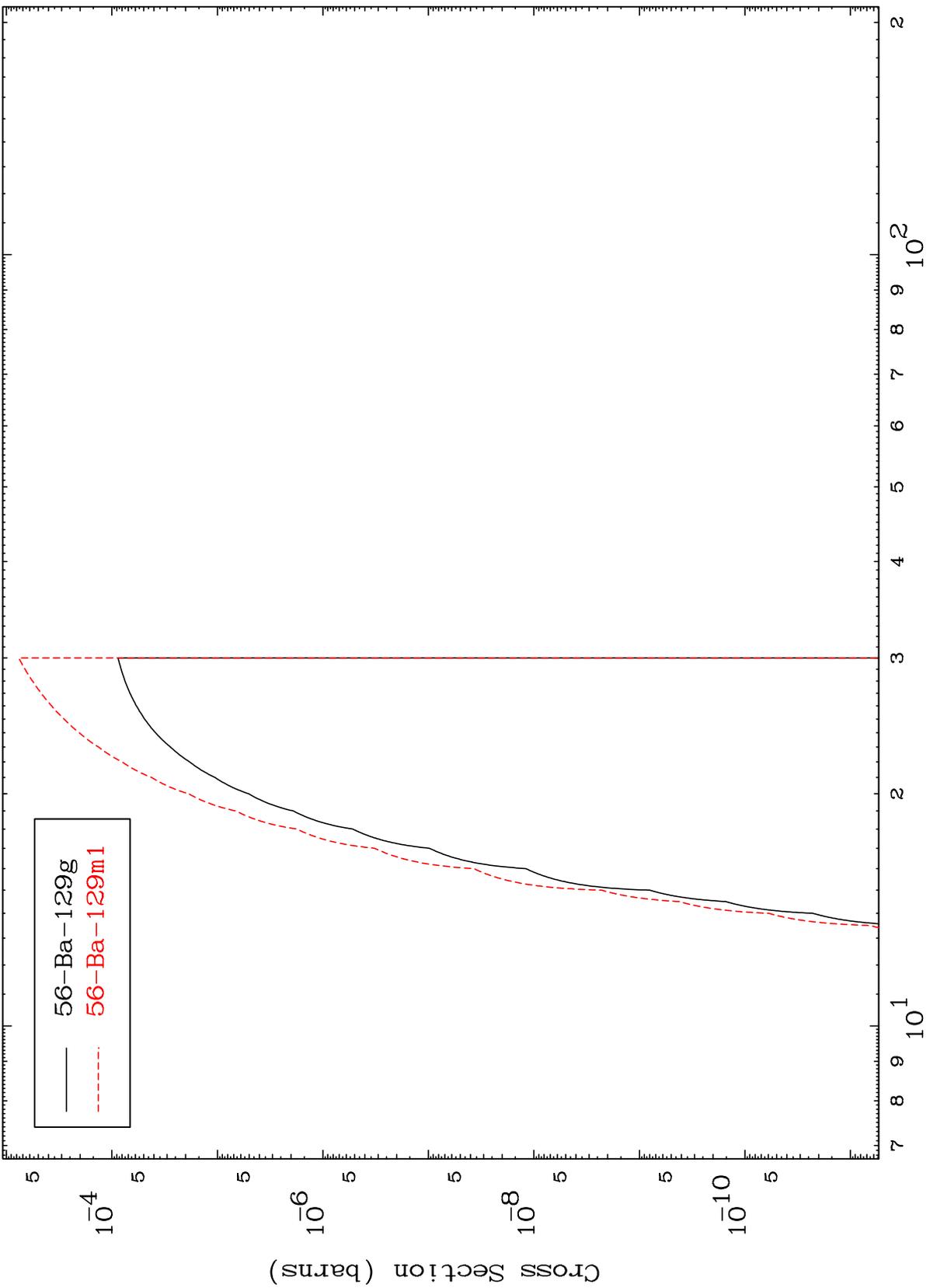


MAT 5810

(n,p) d

58-Ce-131

Radionuclide Production Cross Section



56-Ba-129g
56-Ba-129m1

150

Incident Energy (MeV)

58-Ce-131