

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

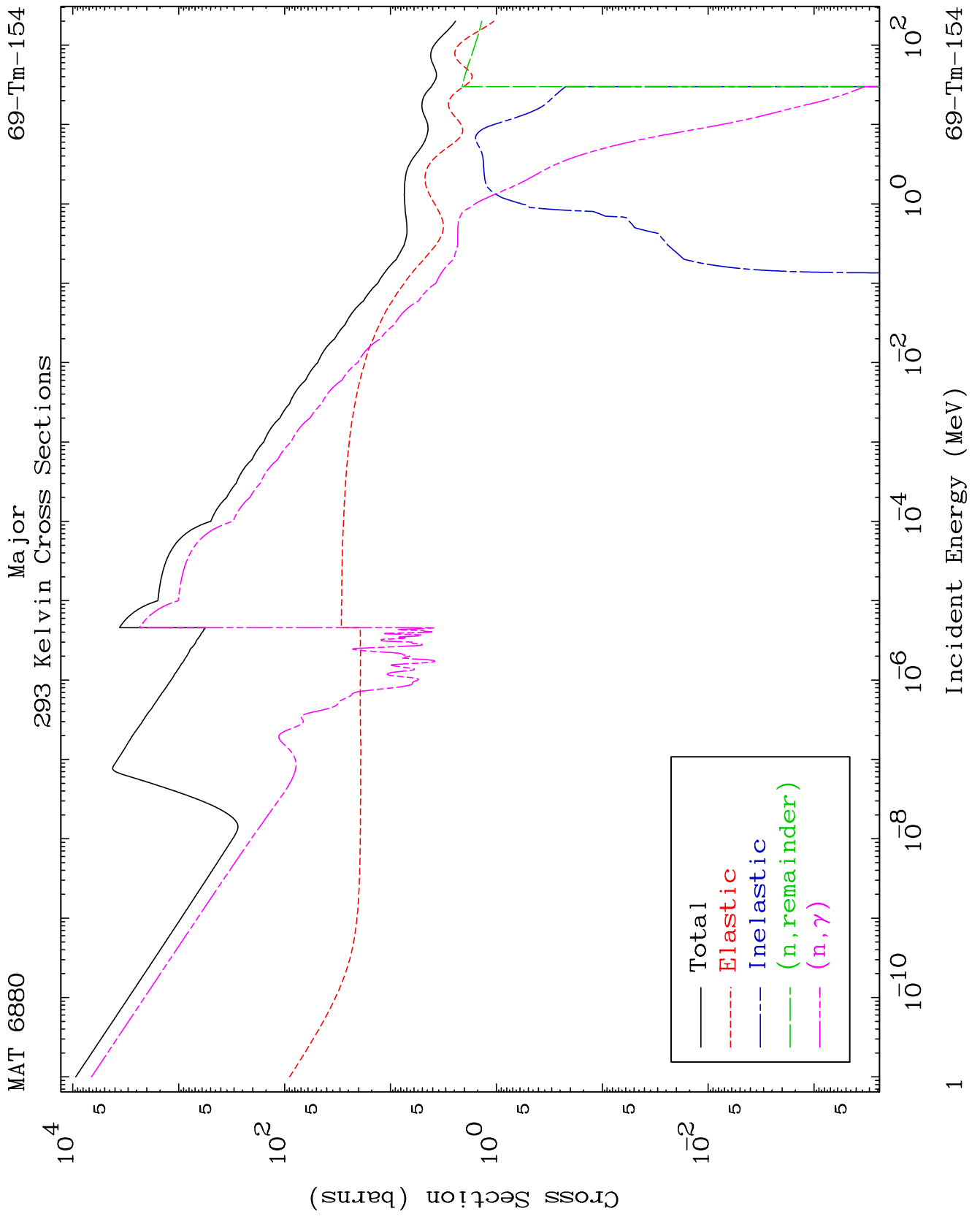
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

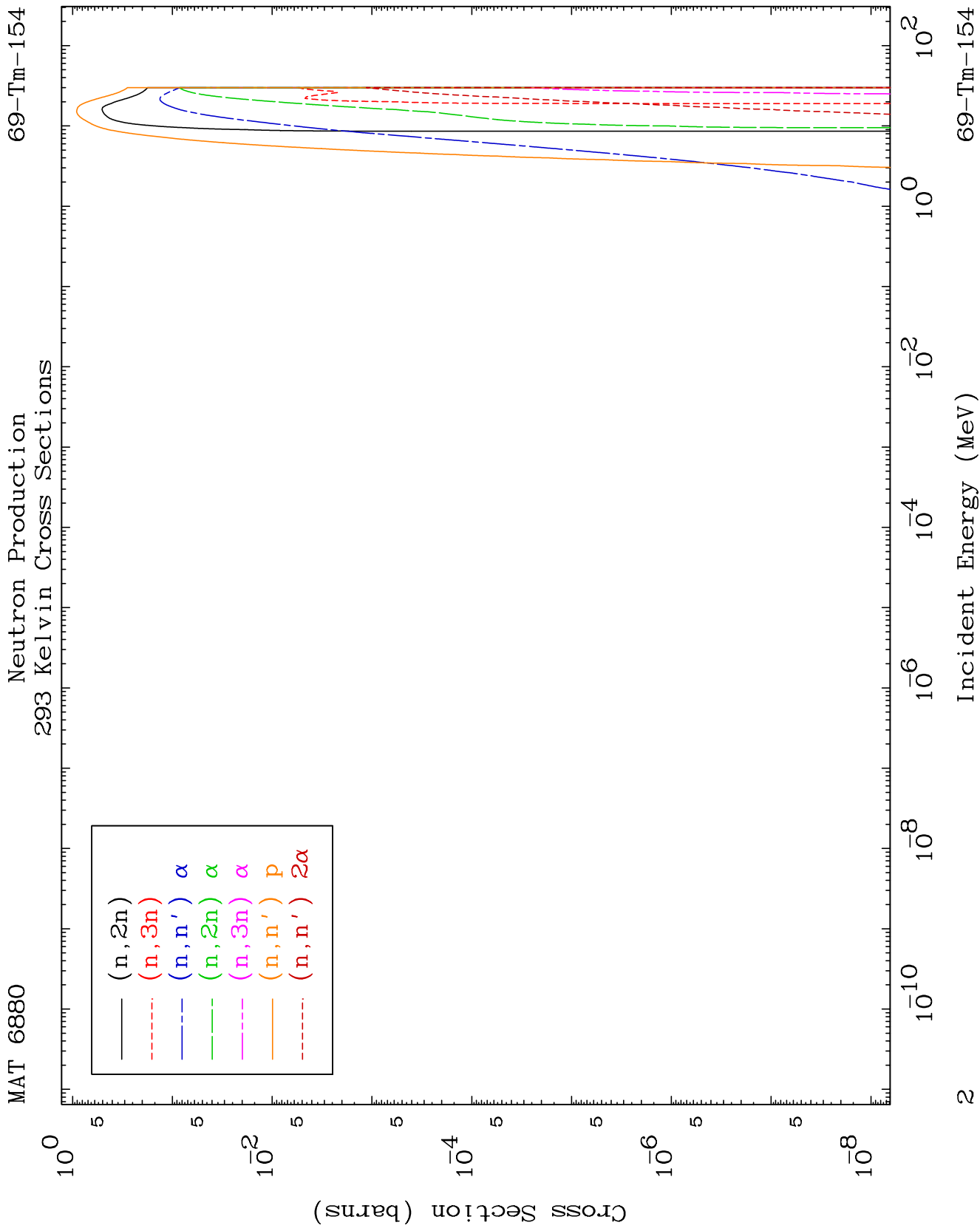
Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

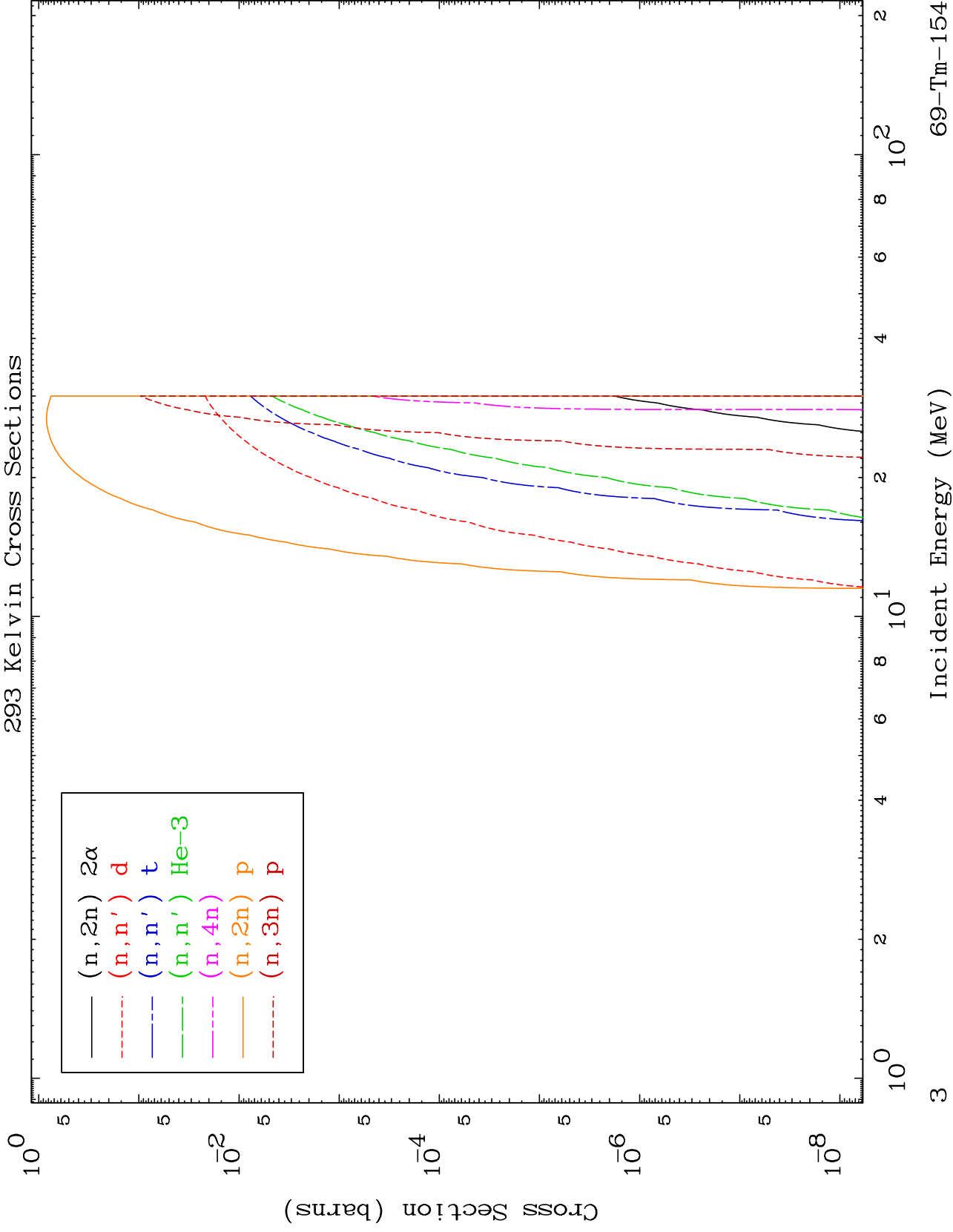




MAT 6880

Neutron Production
293 Kelvin Cross Sections

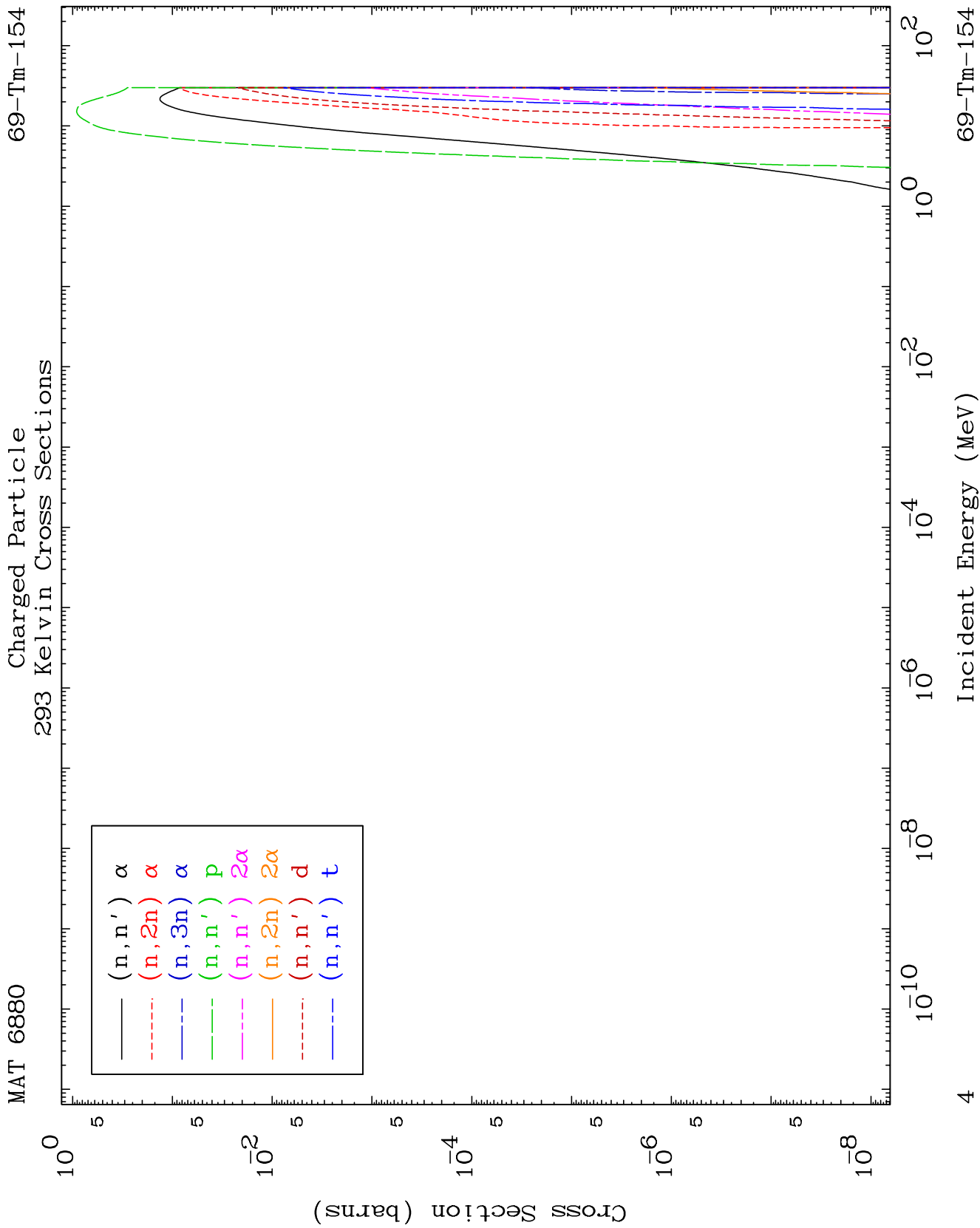
69-Tm-154



69-Tm-154

Incident Energy (MeV)

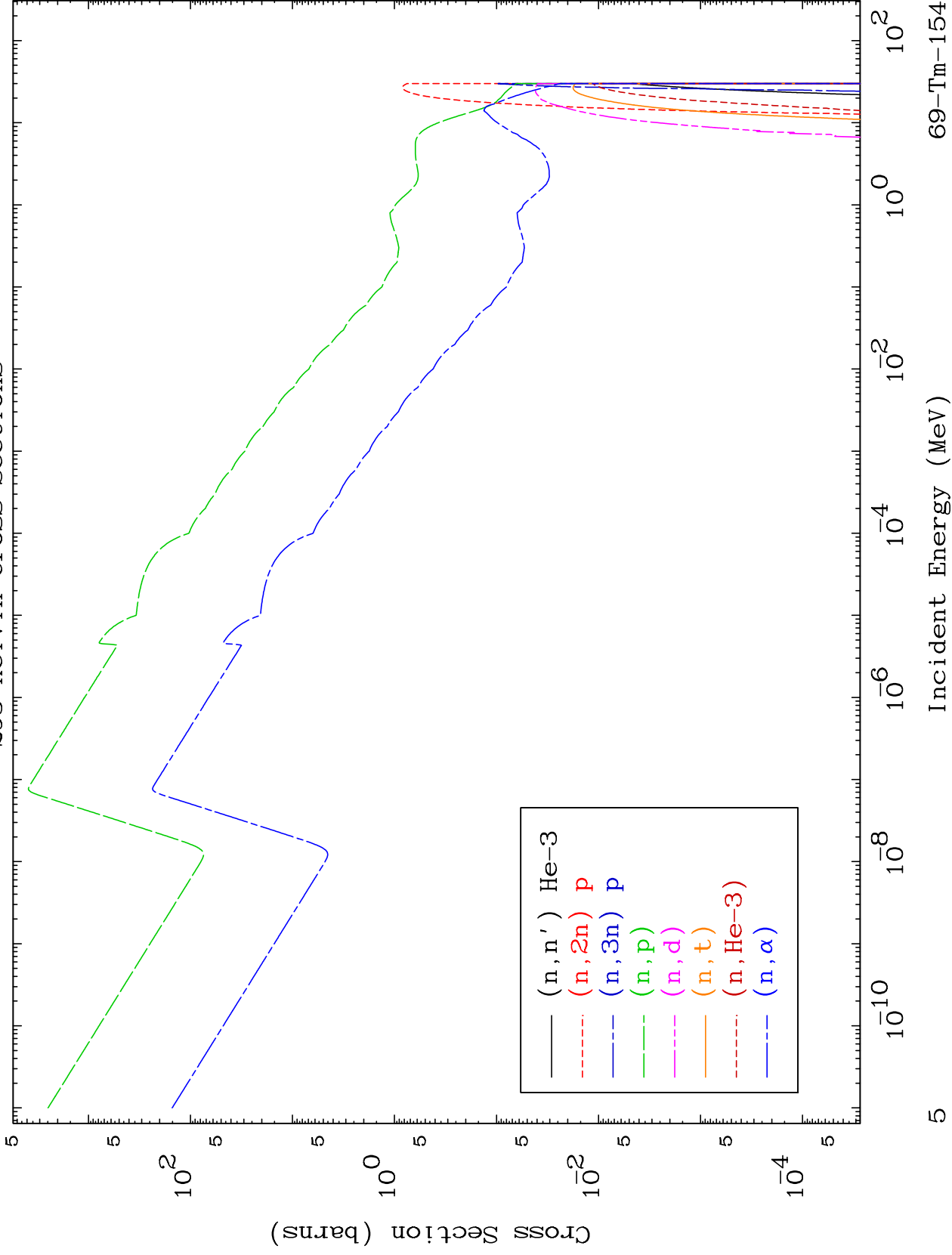
3



MAT 6880

Charged Particle
293 Kelvin Cross Sections

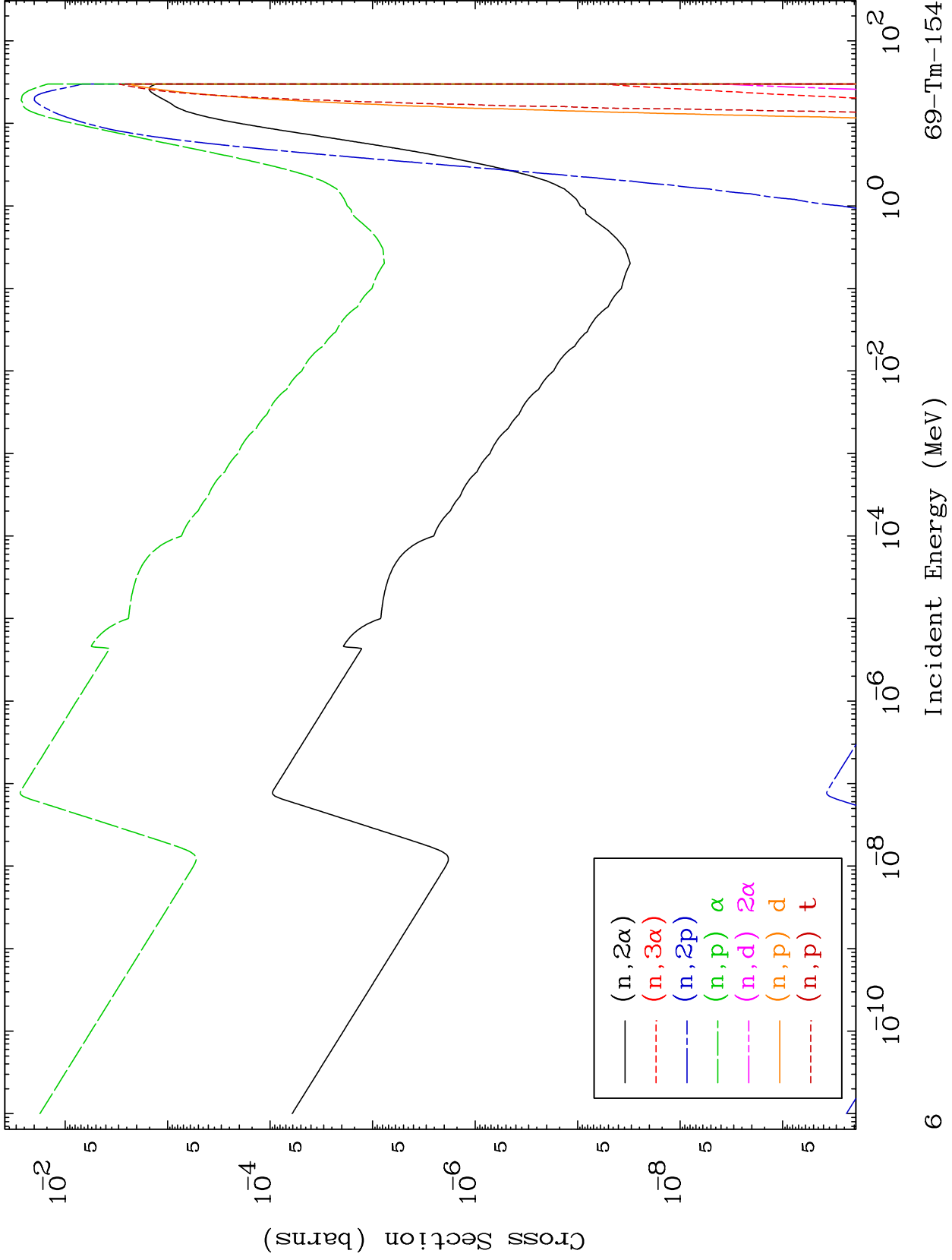
69-Tm-154



MAT 6880

Charged Particle
293 Kelvin Cross Sections

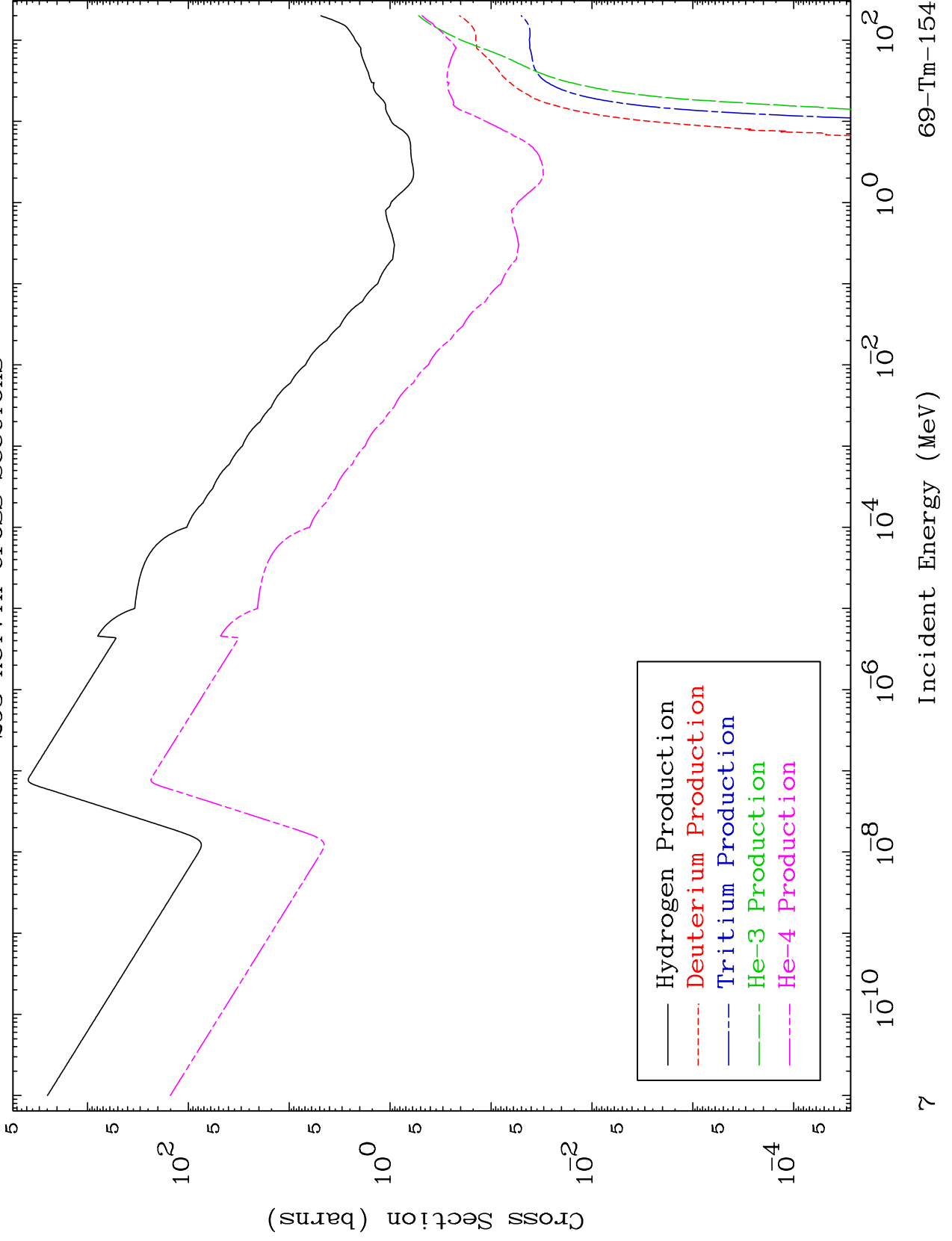
69-Tm-154



MAT 6880

Particle Production
293 Kelvin Cross Sections

69-Tm-154

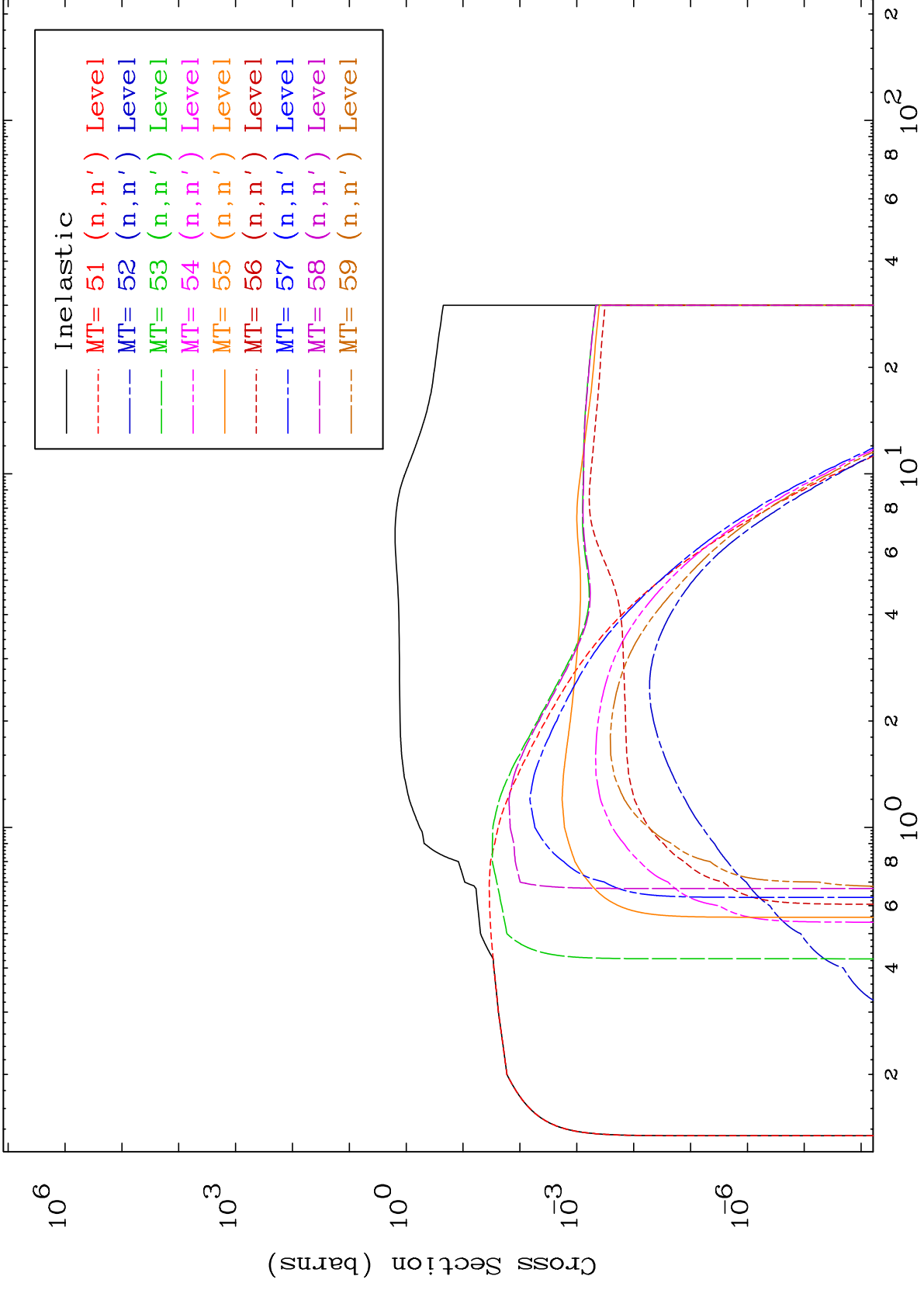


MAT 6880

(n,n') Level

69-Tm-154

293 Kelvin Cross Sections

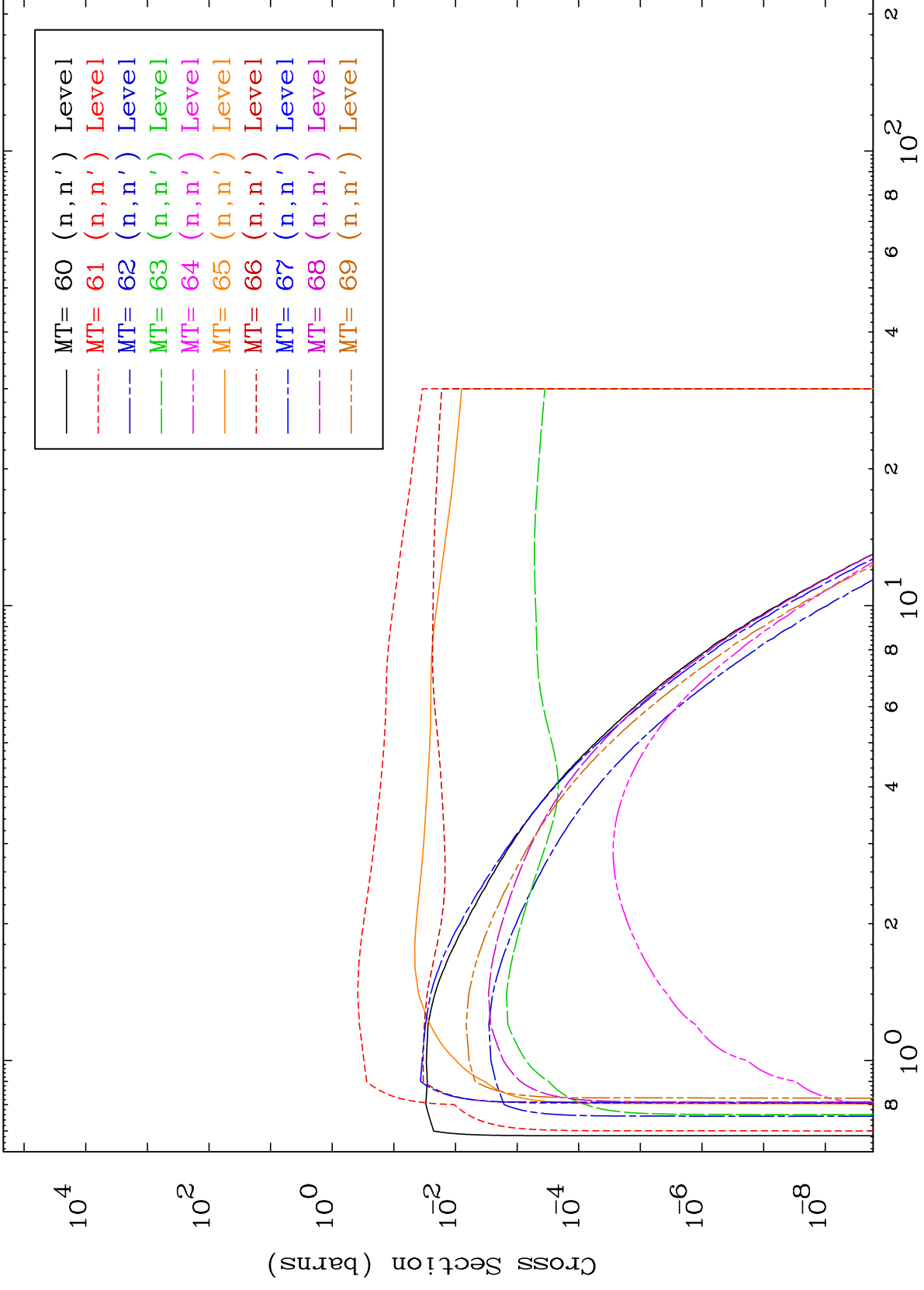


MAT 6880

(n,n') Level

69-Tm-154

293 Kelvin Cross Sections



9

Incident Energy (MeV)

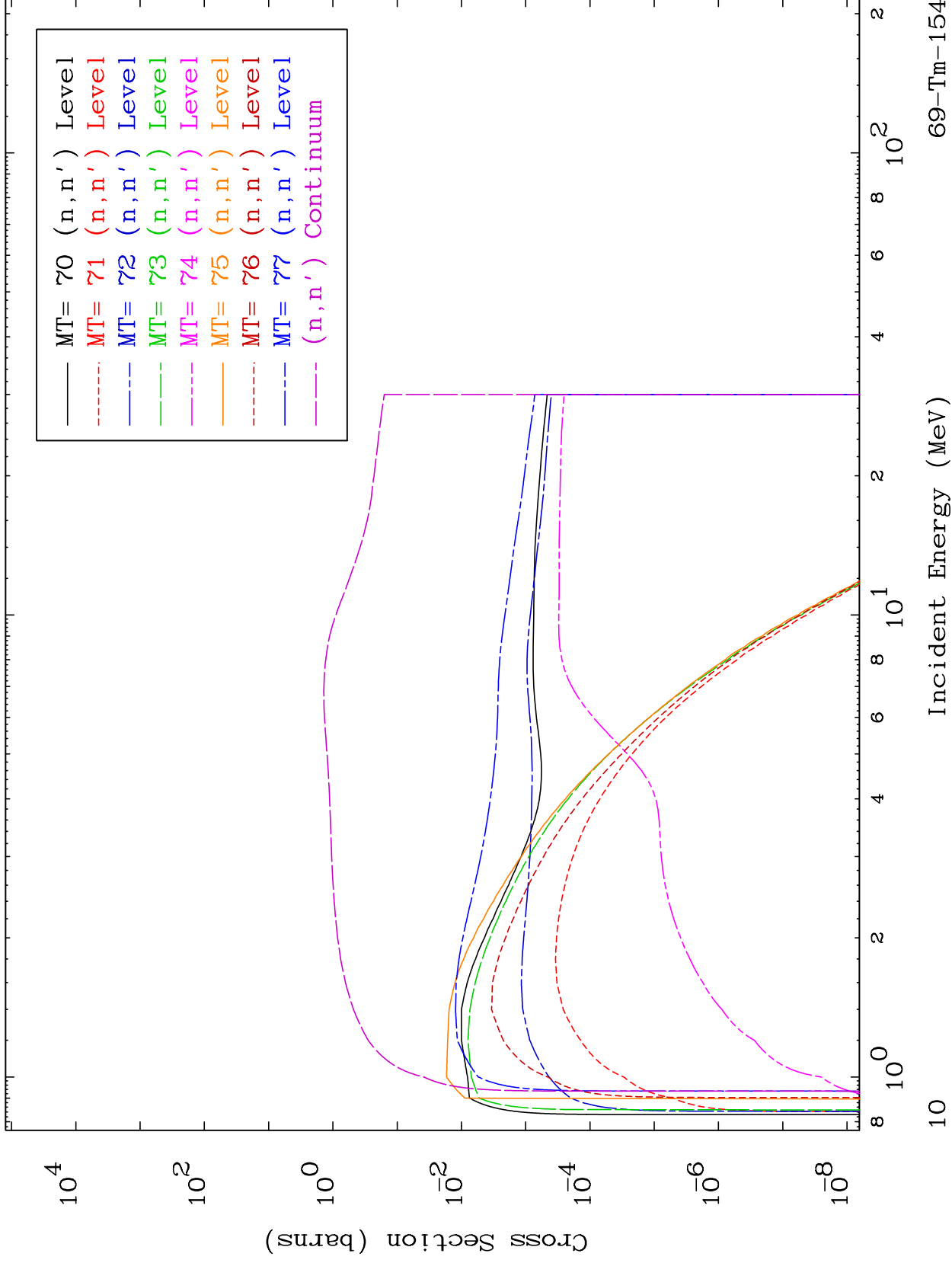
69-Tm-154

MAT 6880

(n,n') Level

293 Kelvin Cross Sections

69-Tm-154

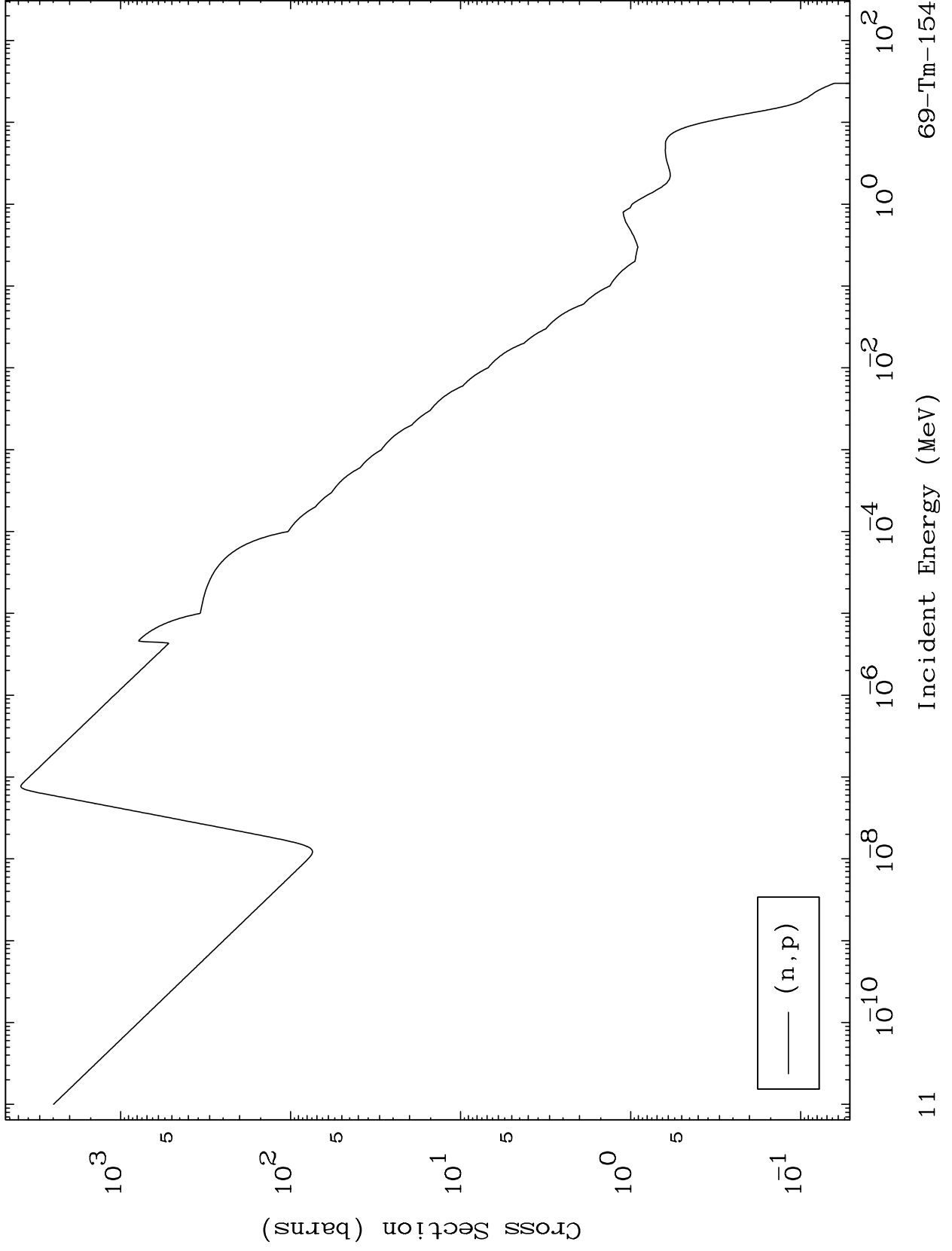


69-Tm-154

MAT 6880

(n,p) Levels
293 Kelvin Cross Sections

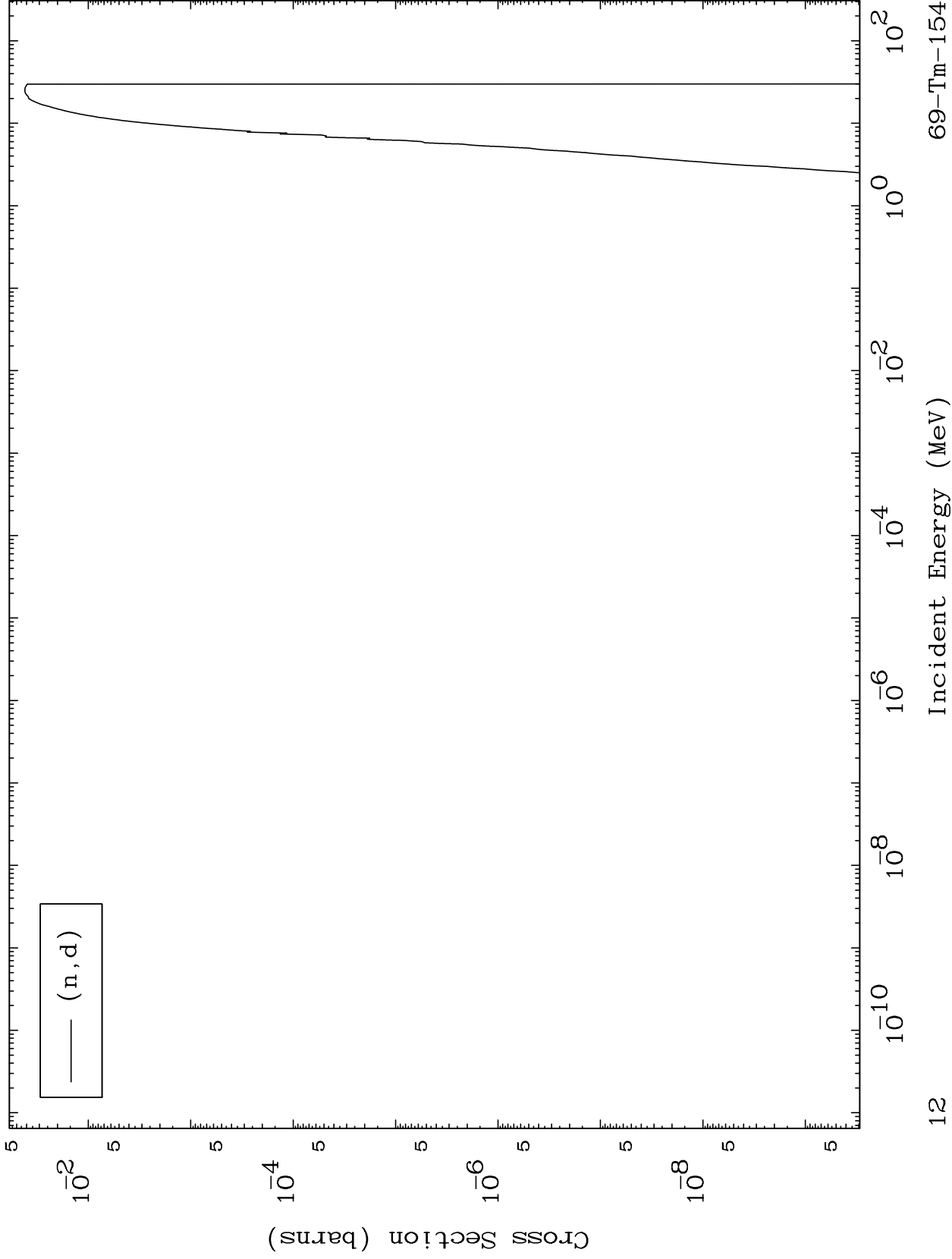
69-Tm-154



MAT 6880

(n,d) Levels
293 Kelvin Cross Sections

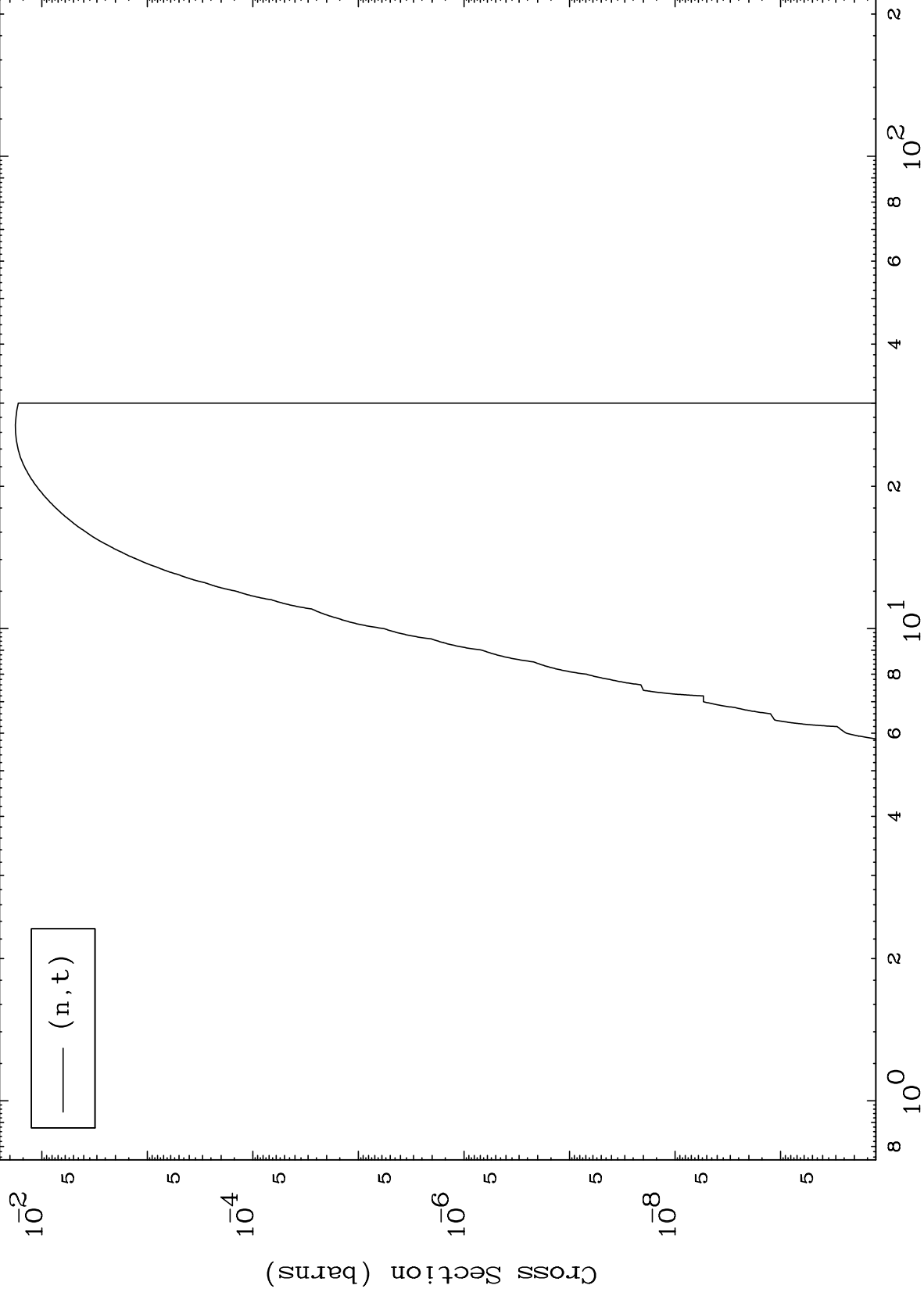
69-Tm-154



MAT 6880

(n,t) Levels
293 Kelvin Cross Sections

69-Tm-154



13

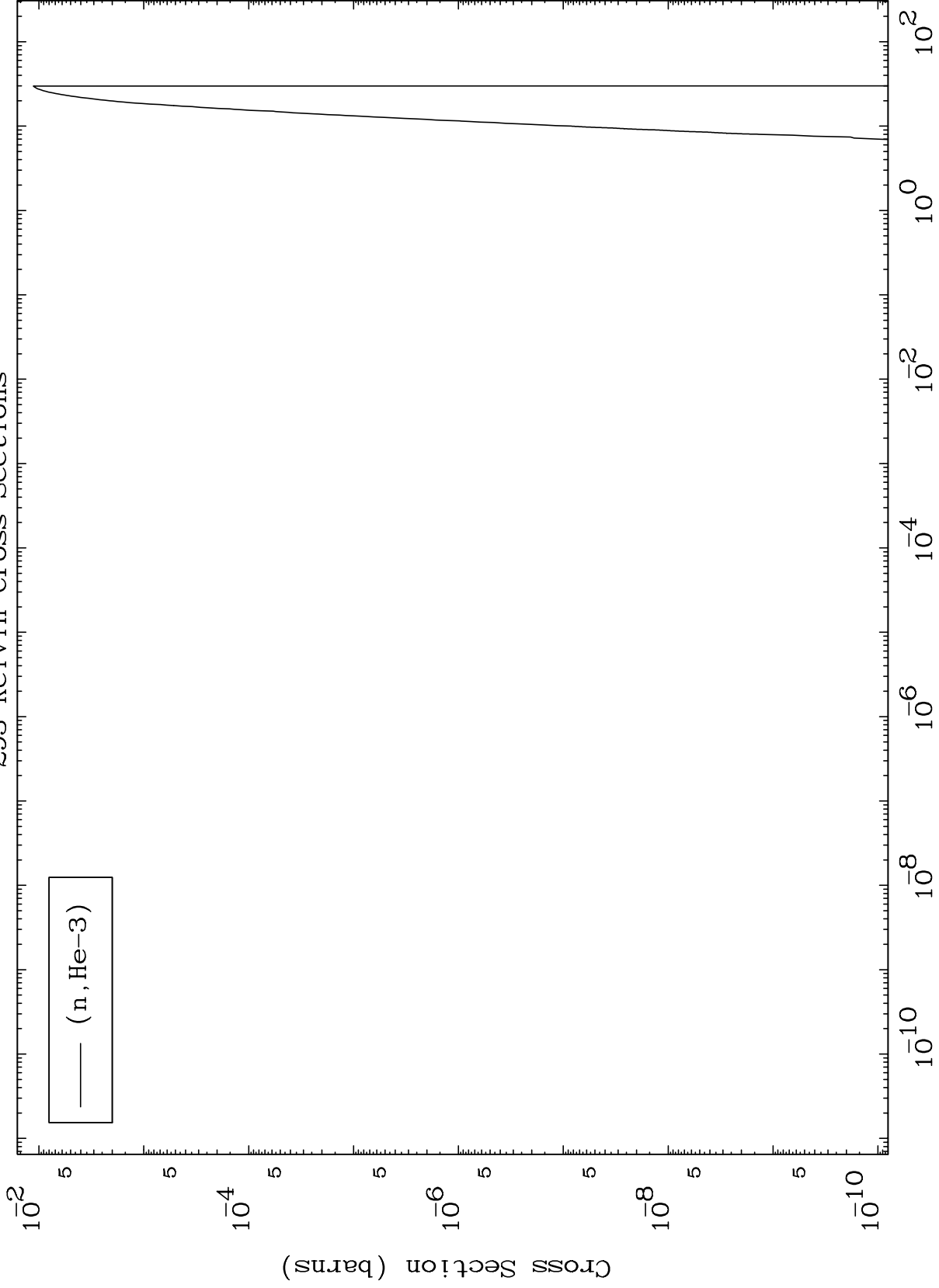
Incident Energy (MeV)

69-Tm-154

MAT 6880

(n,He3) Levels
293 Kelvin Cross Sections

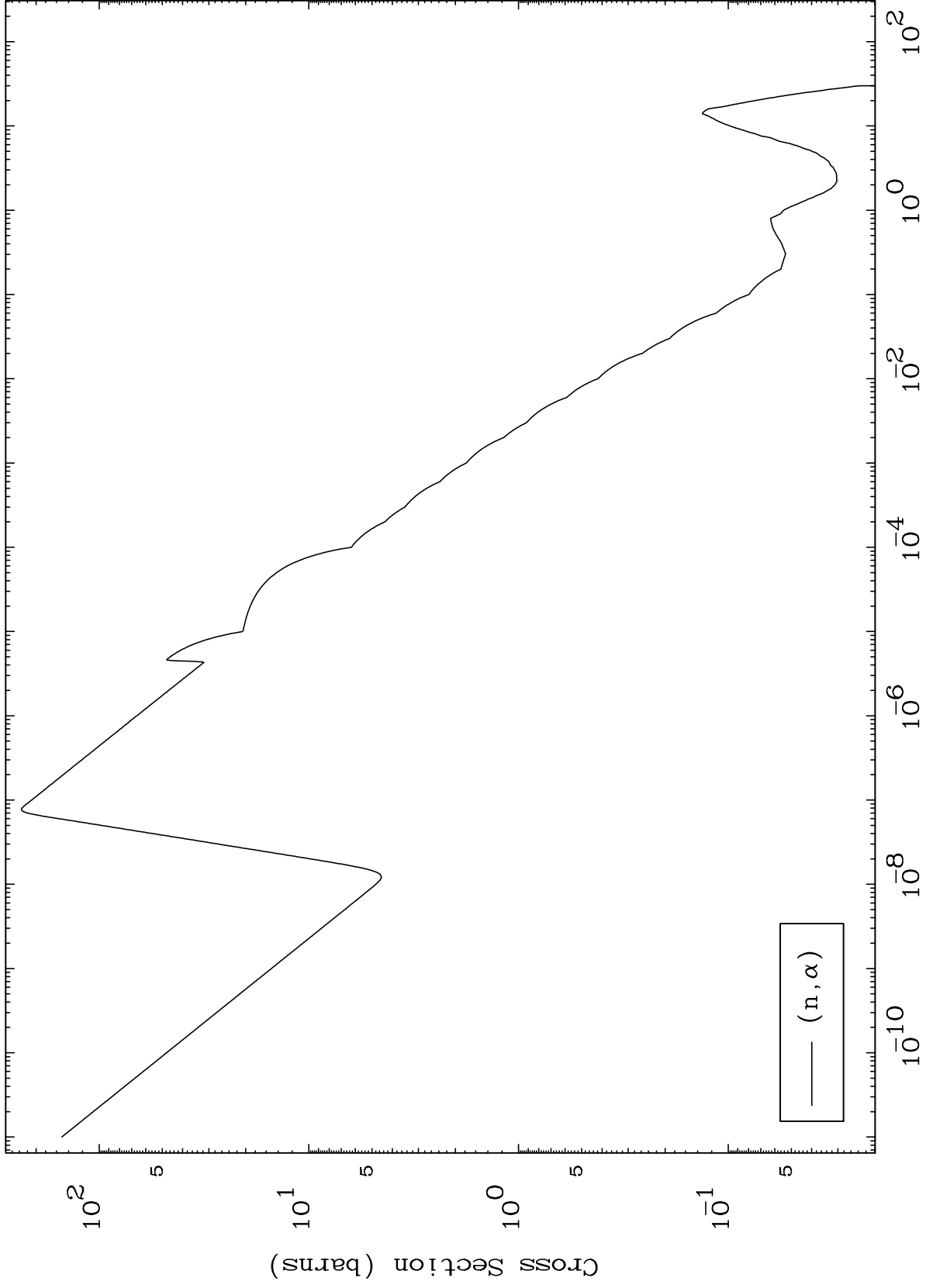
69-Tm-154



MAT 6880

(n,α) Levels
293 Kelvin Cross Sections

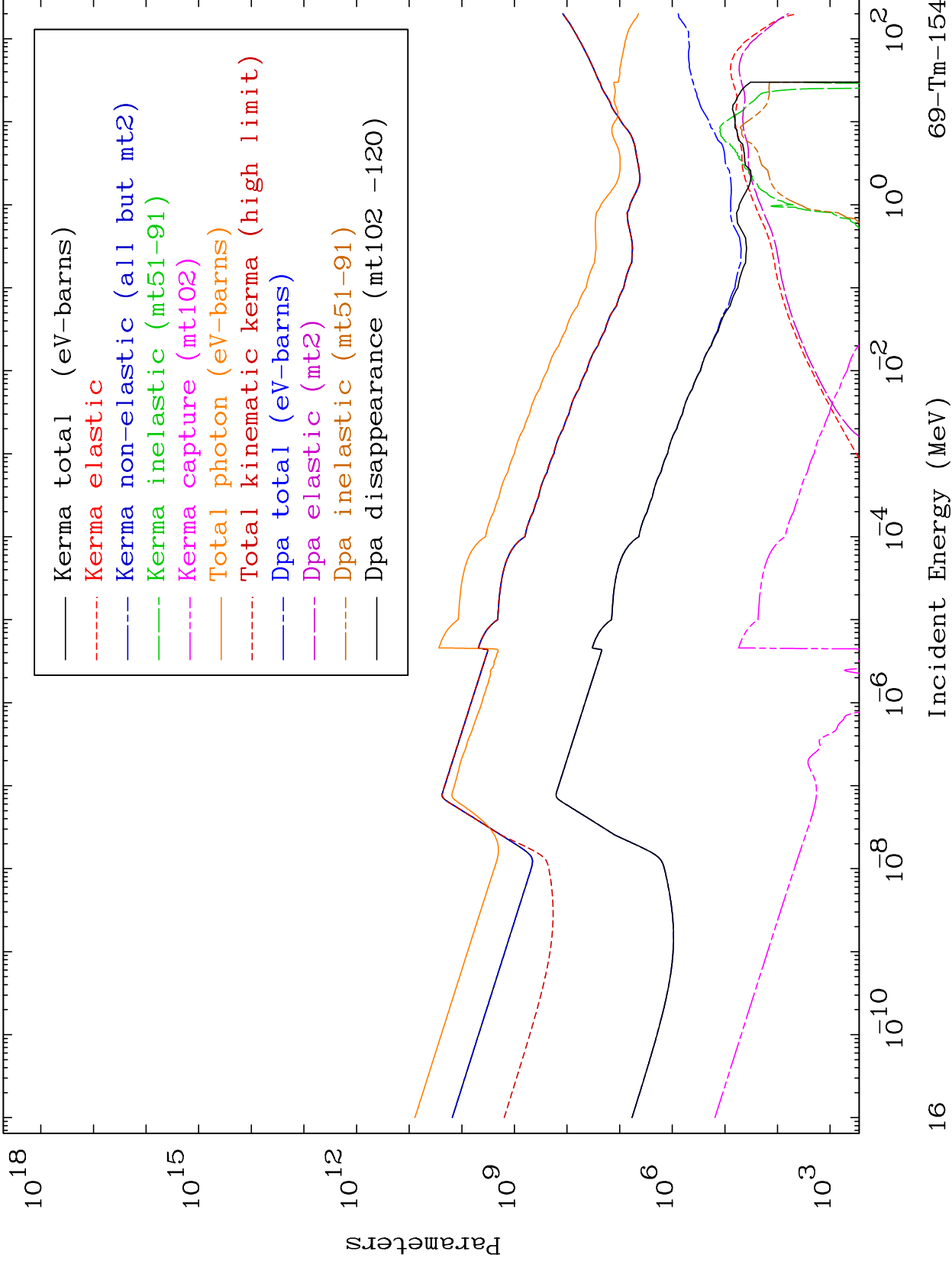
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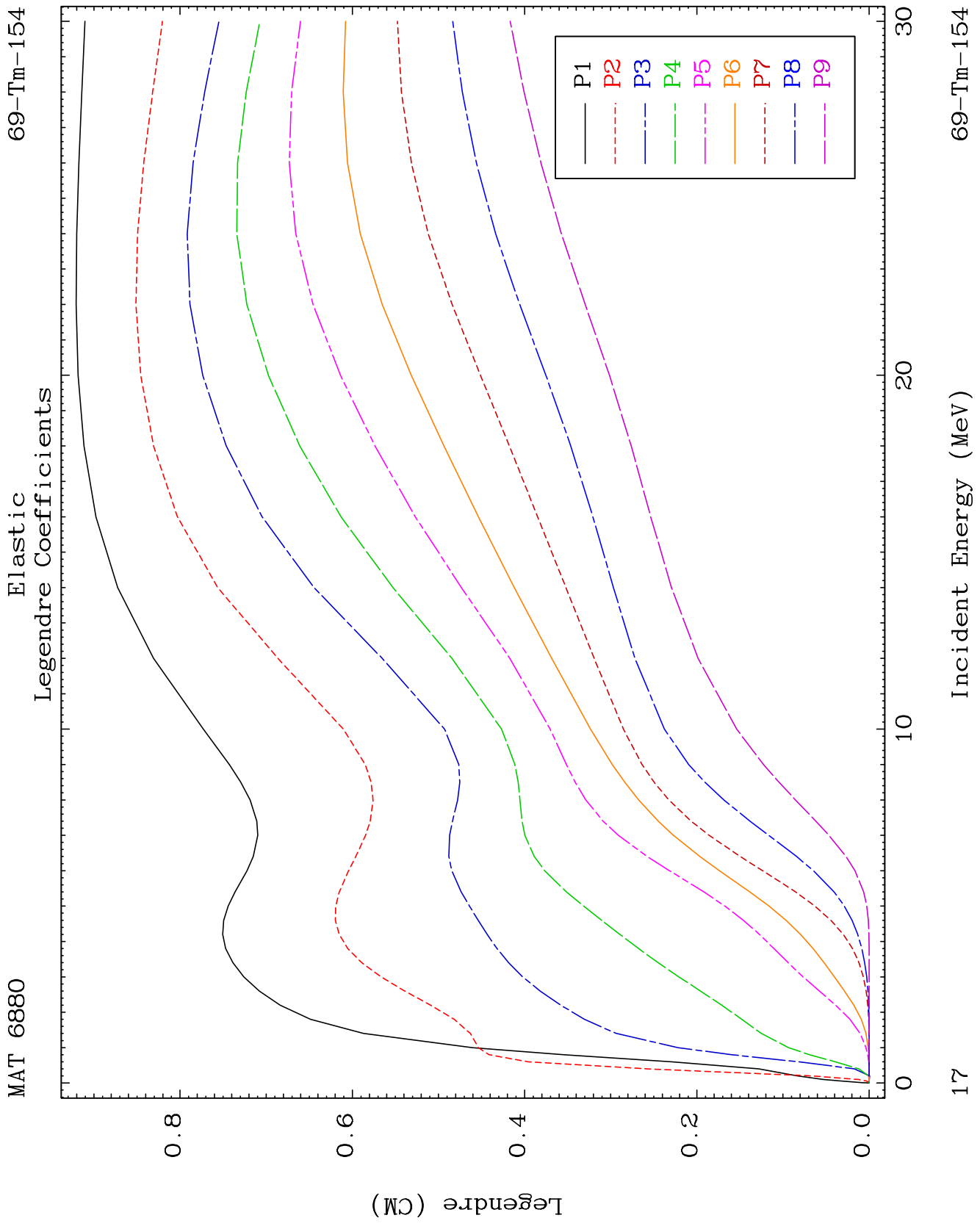


15

Incident Energy (MeV)

69-Tm-154

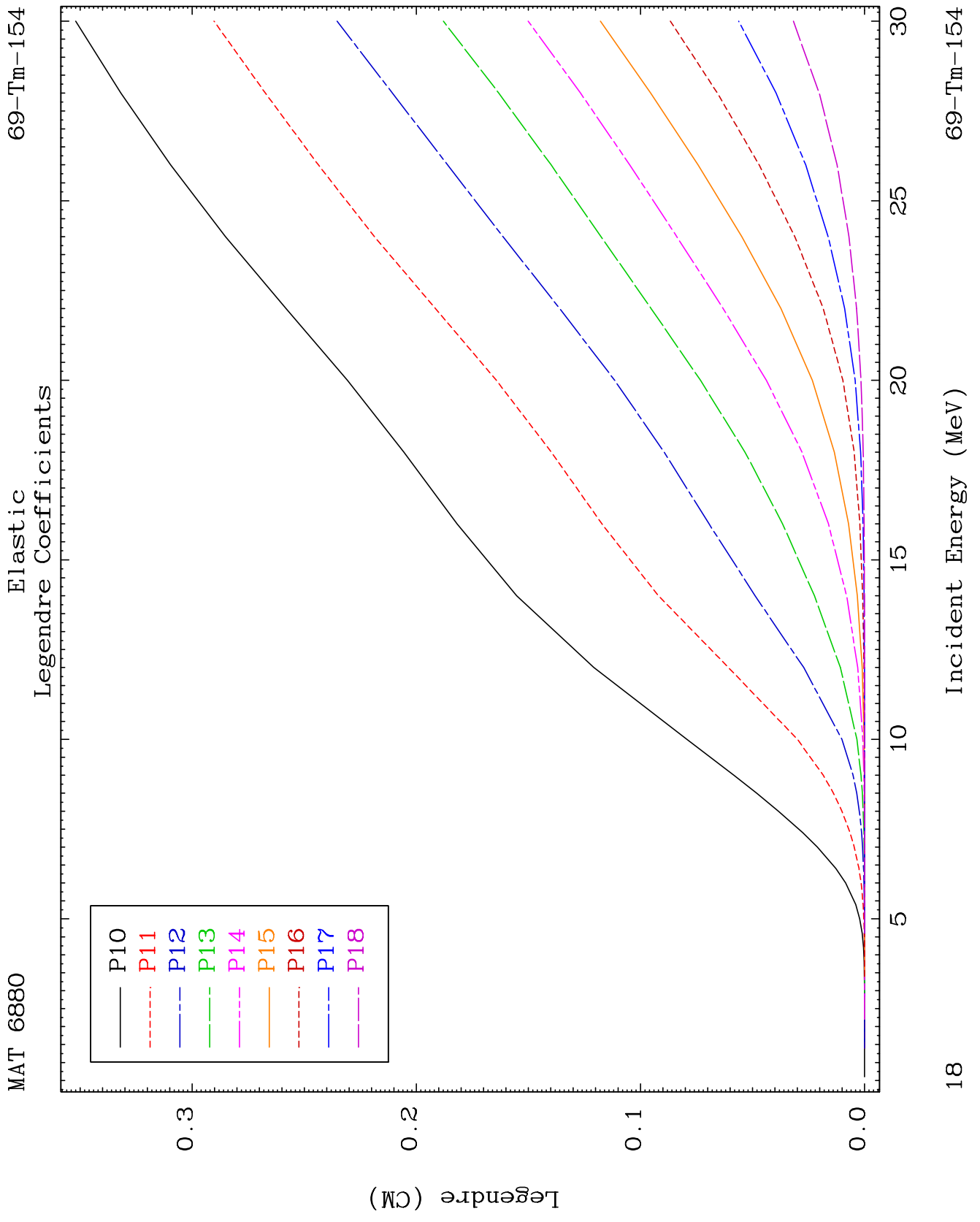




69-Tm-154

Incident Energy (MeV)

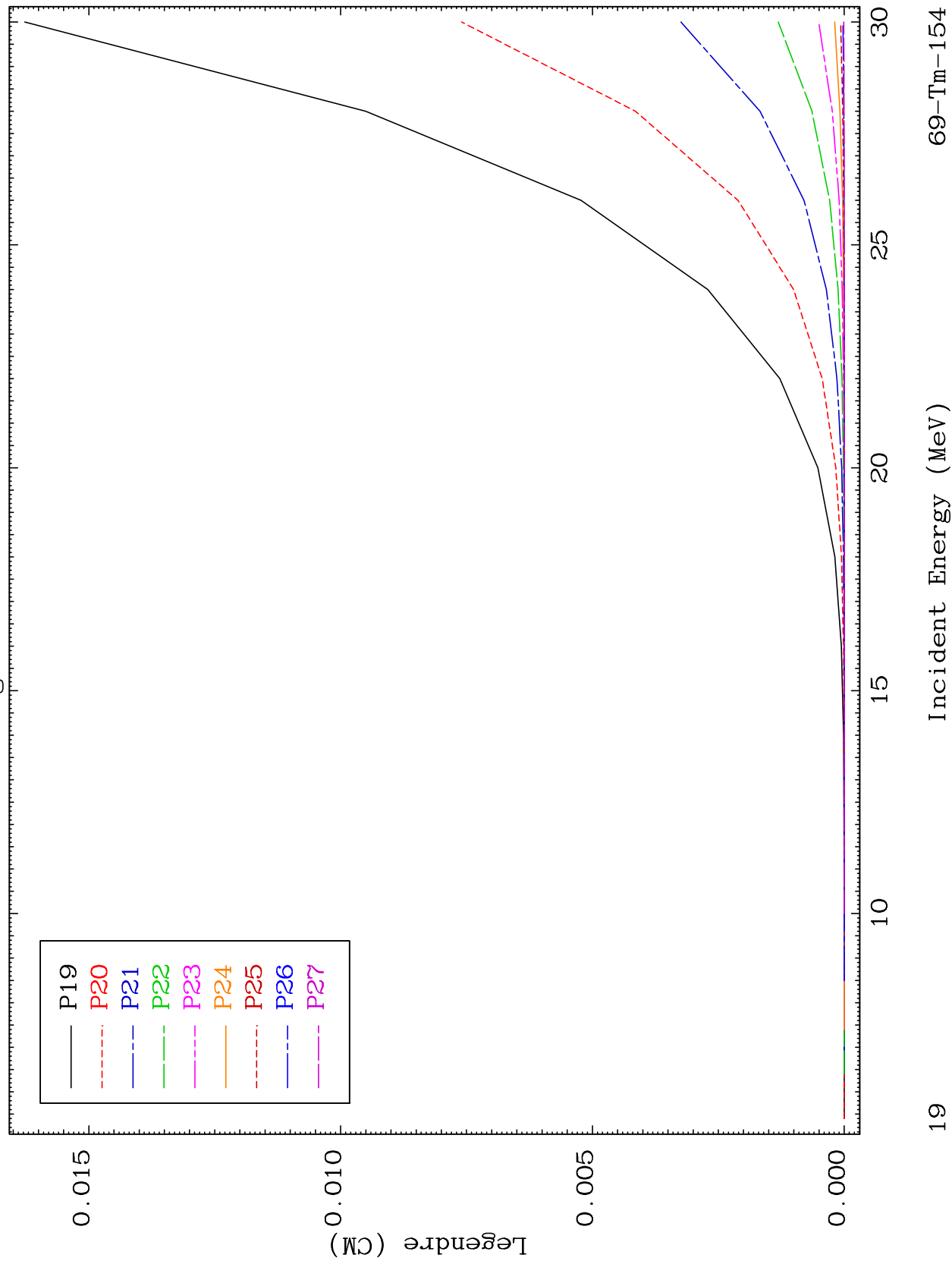
17



MAT 6880

Elastic Legendre Coefficients

69-Tm-154



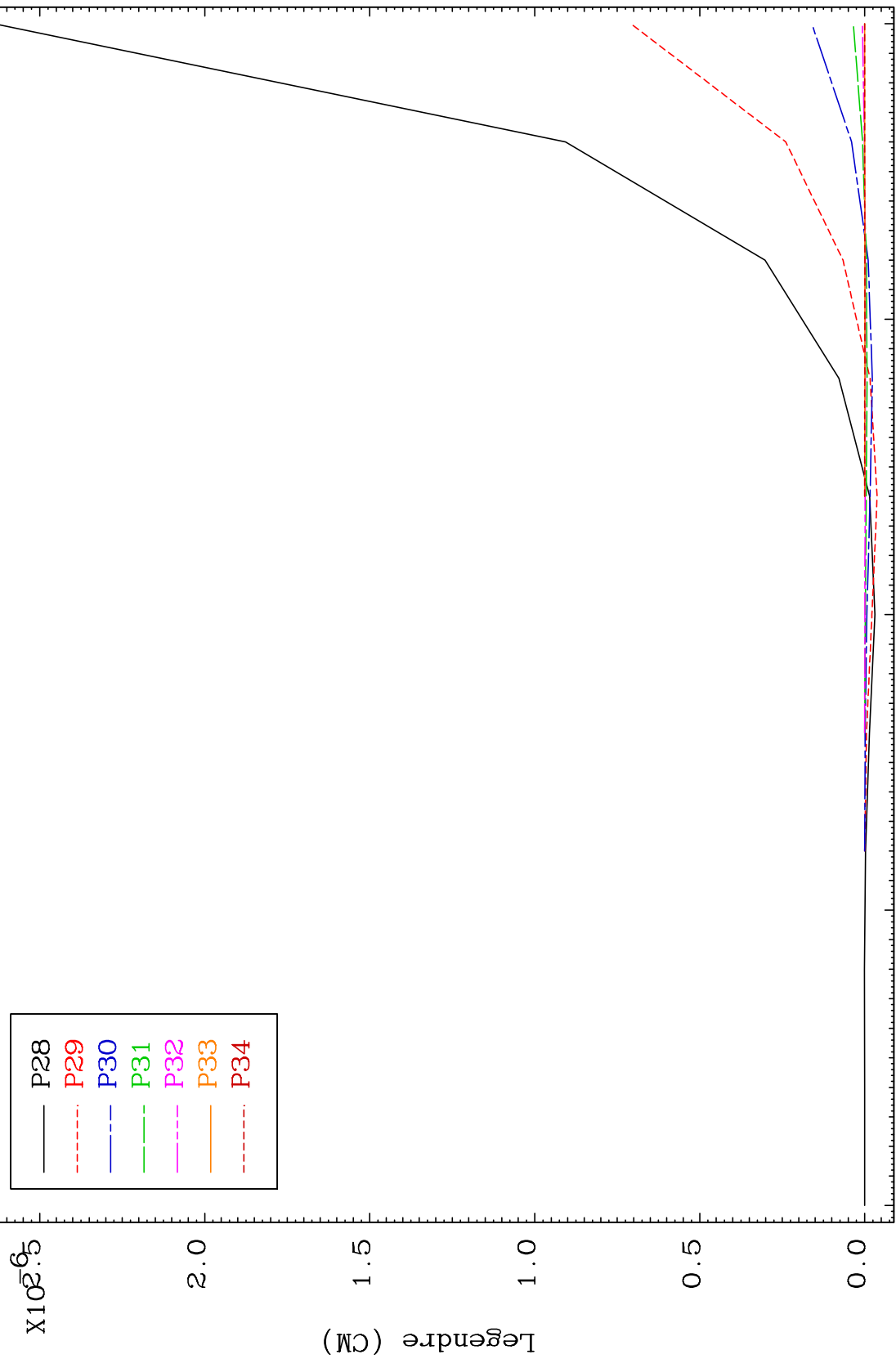
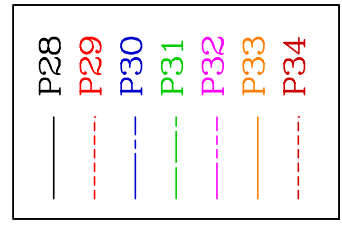
19

69-Tm-154

MAT 6880

Elastic Legendre Coefficients

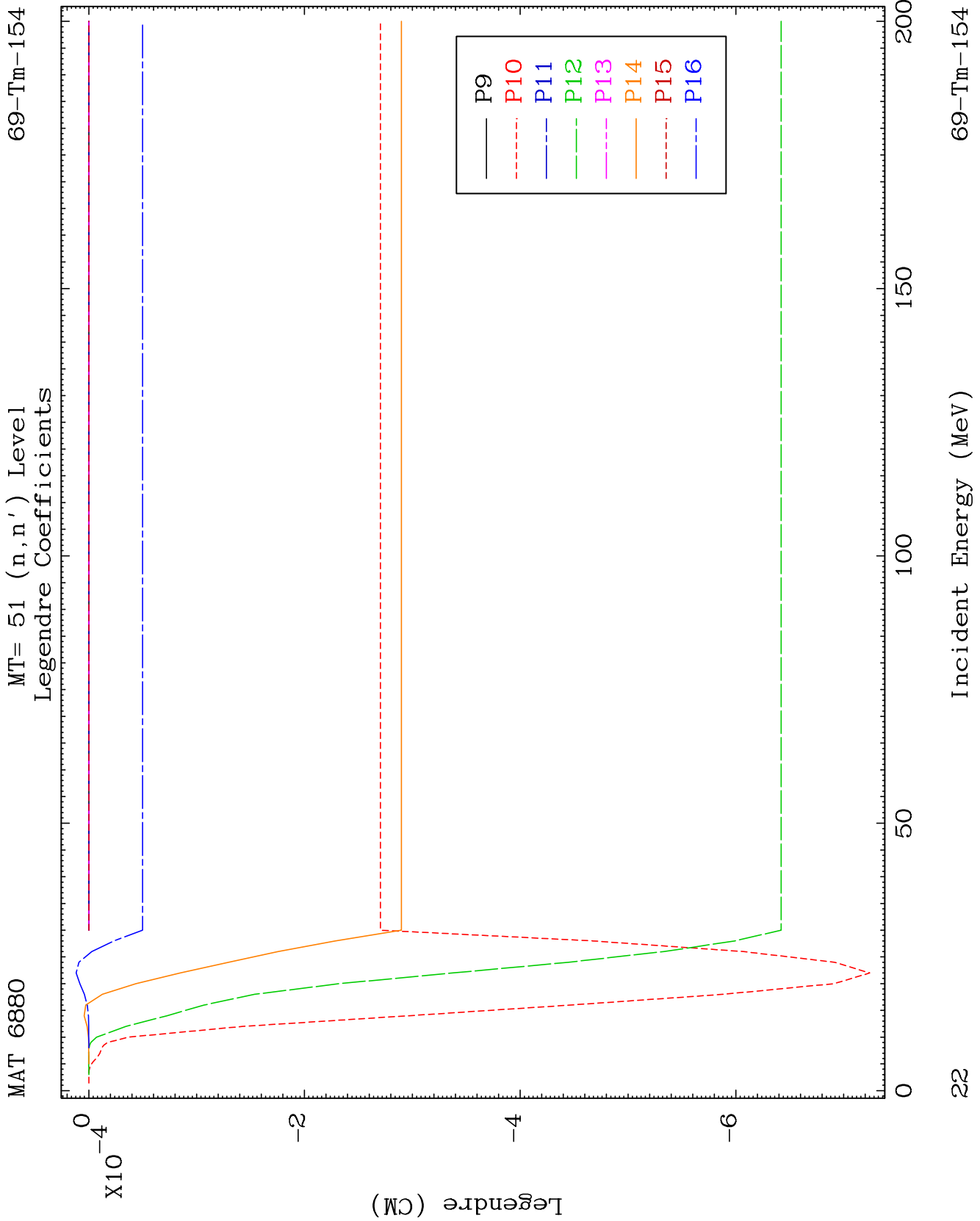
69-Tm-154



20

Incident Energy (MeV)

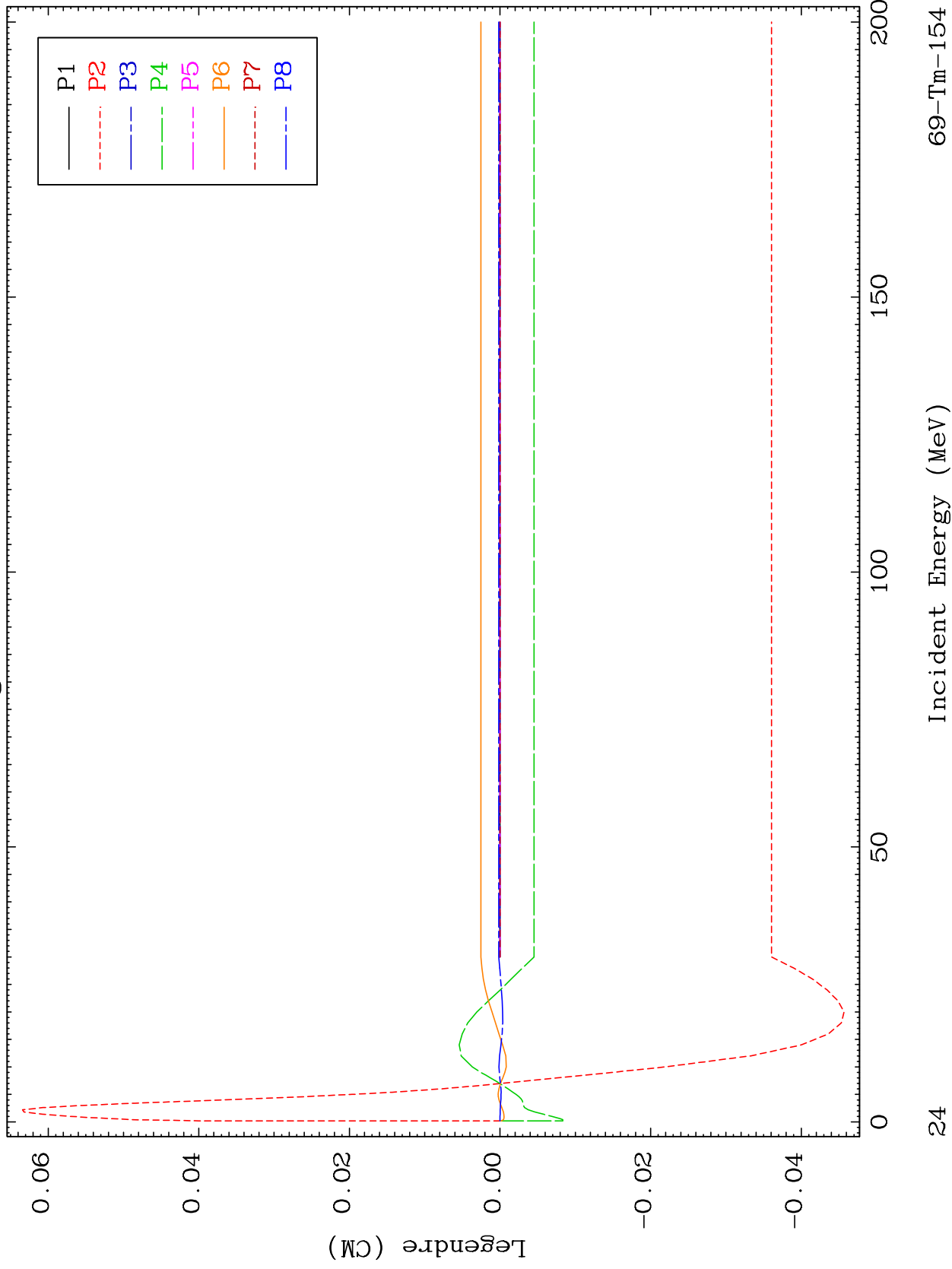
69-Tm-154



MAT 6880

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

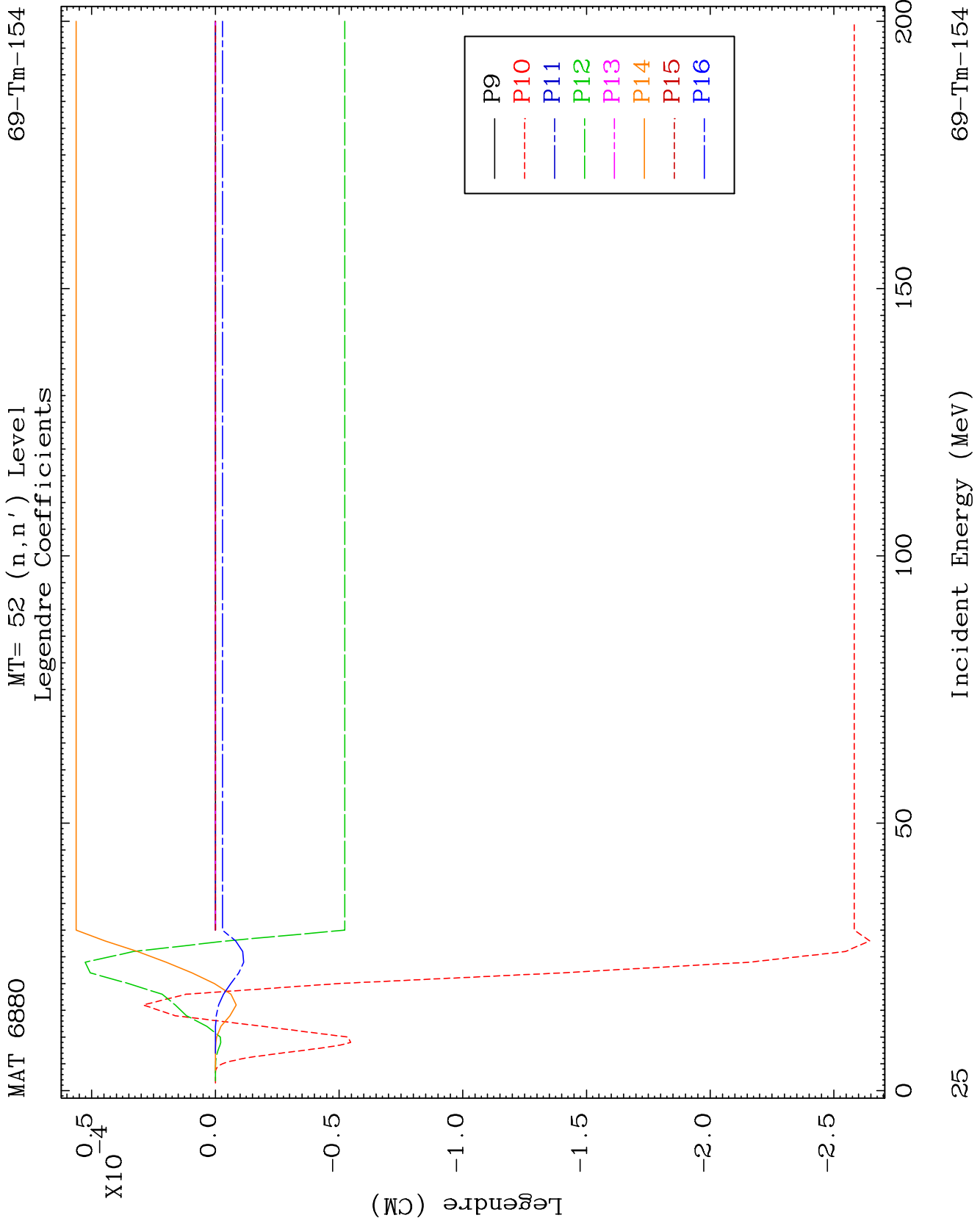
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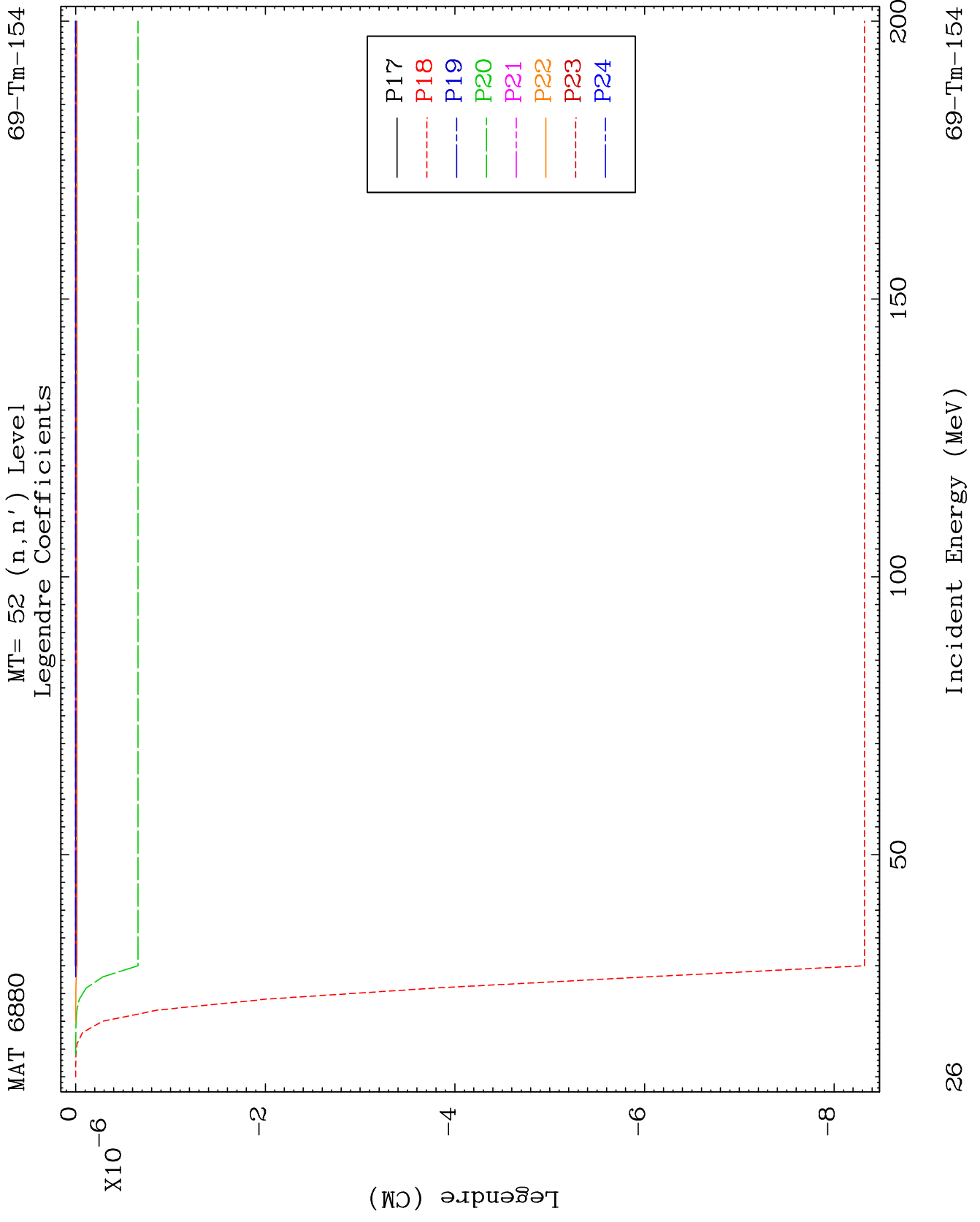


69-Tm-154

Incident Energy (MeV)

24

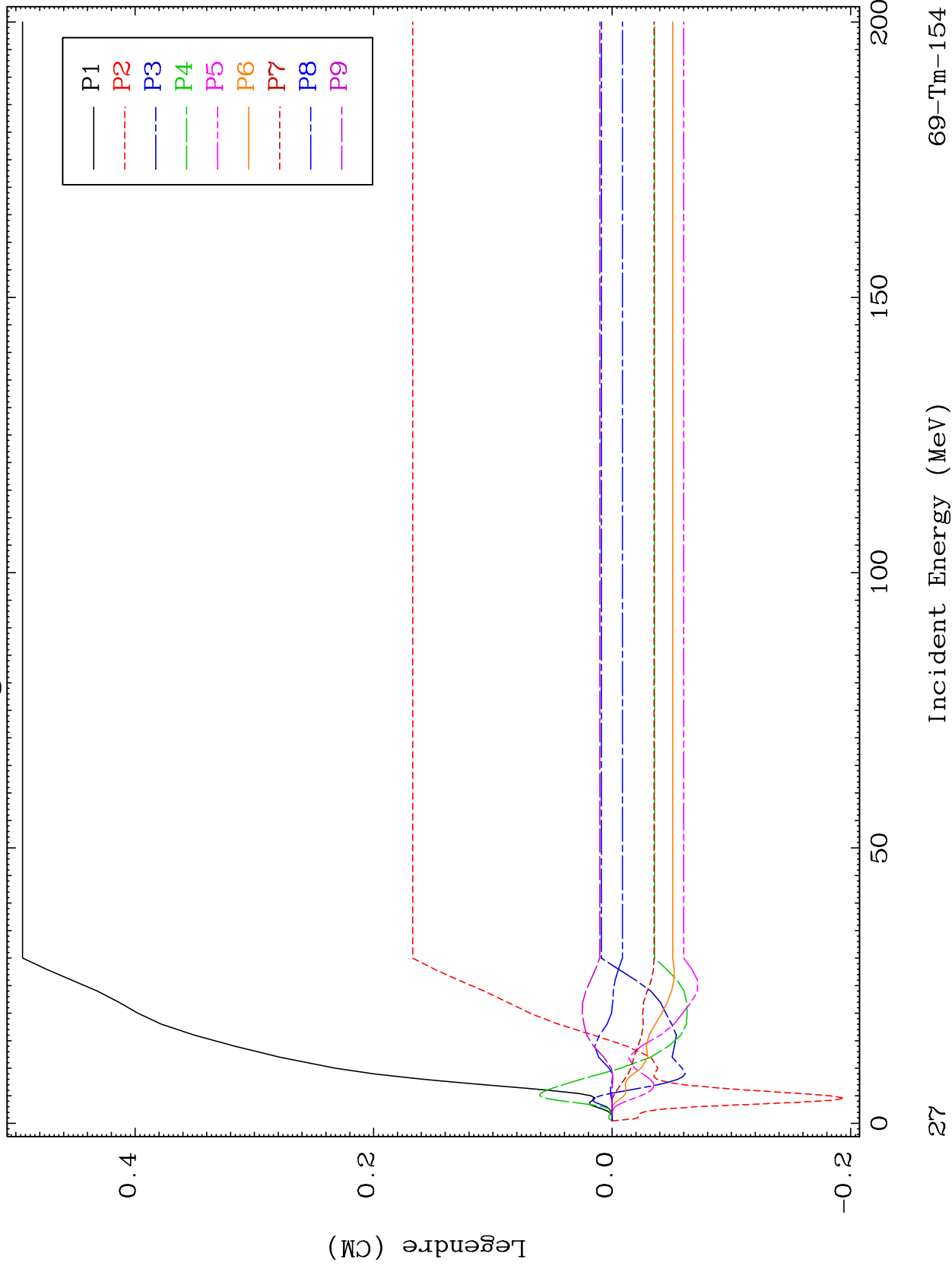




MAT 6880

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

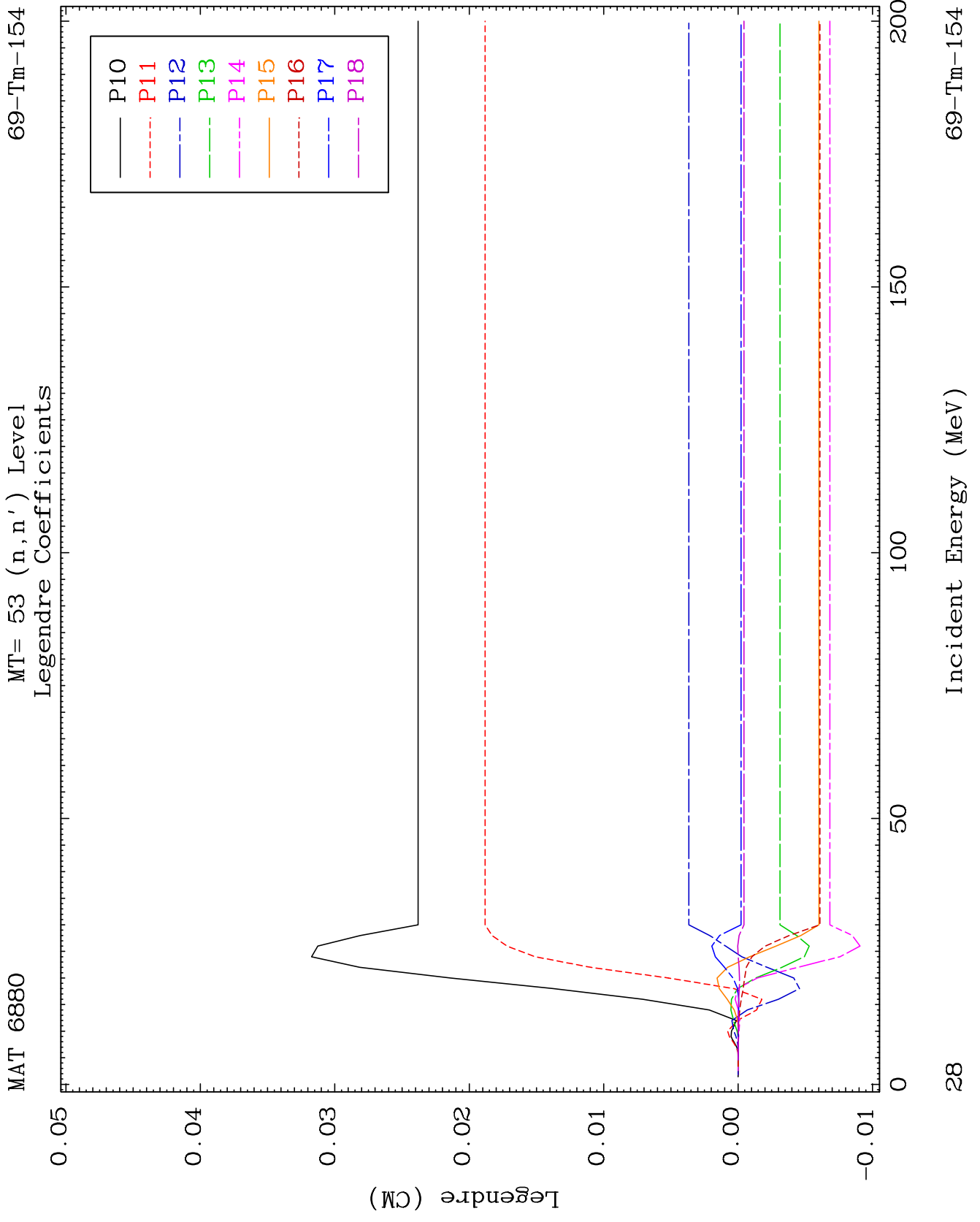
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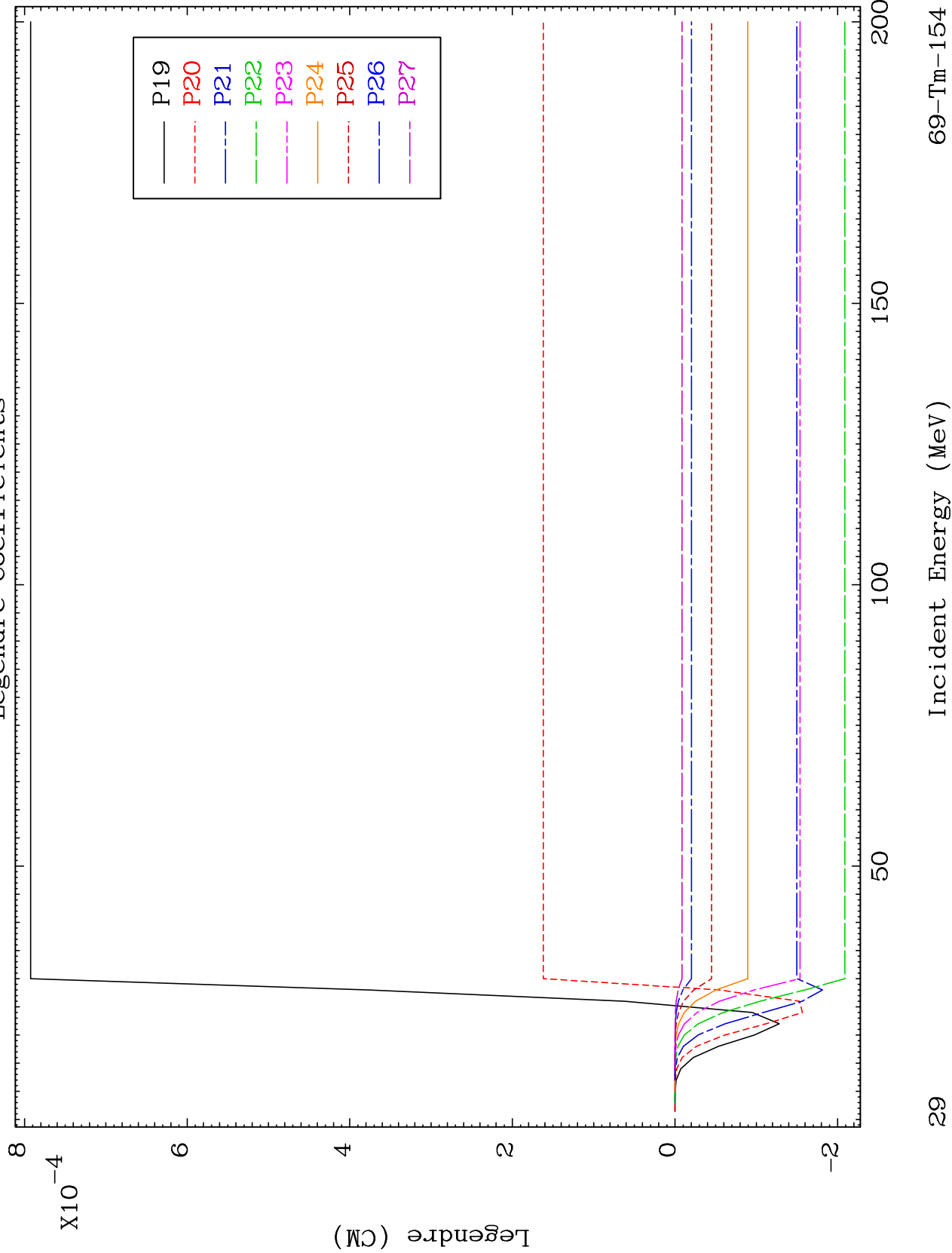


69-Tm-154

Incident Energy (MeV)

27

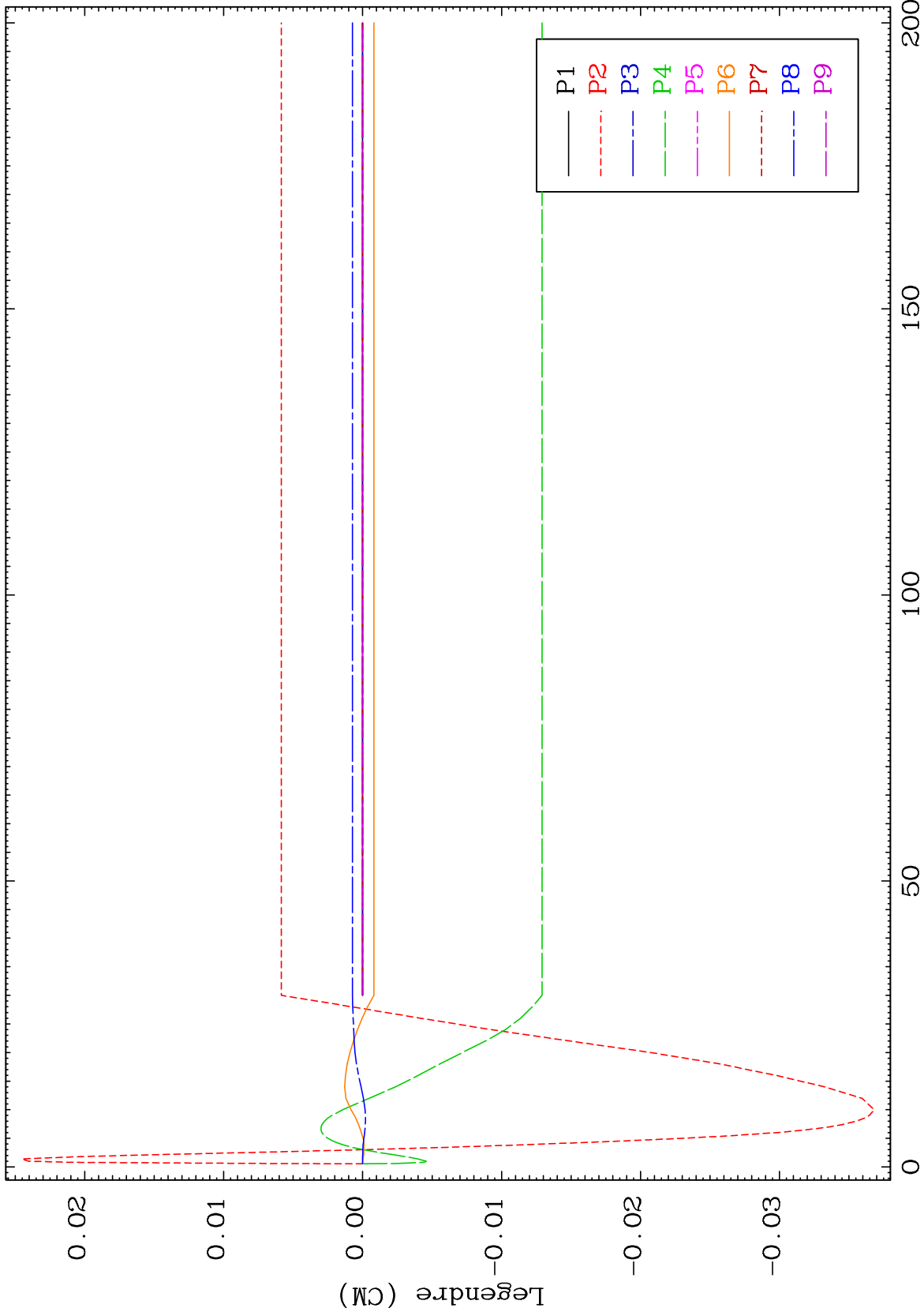




MAT 6880

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

69-Tm-154



31

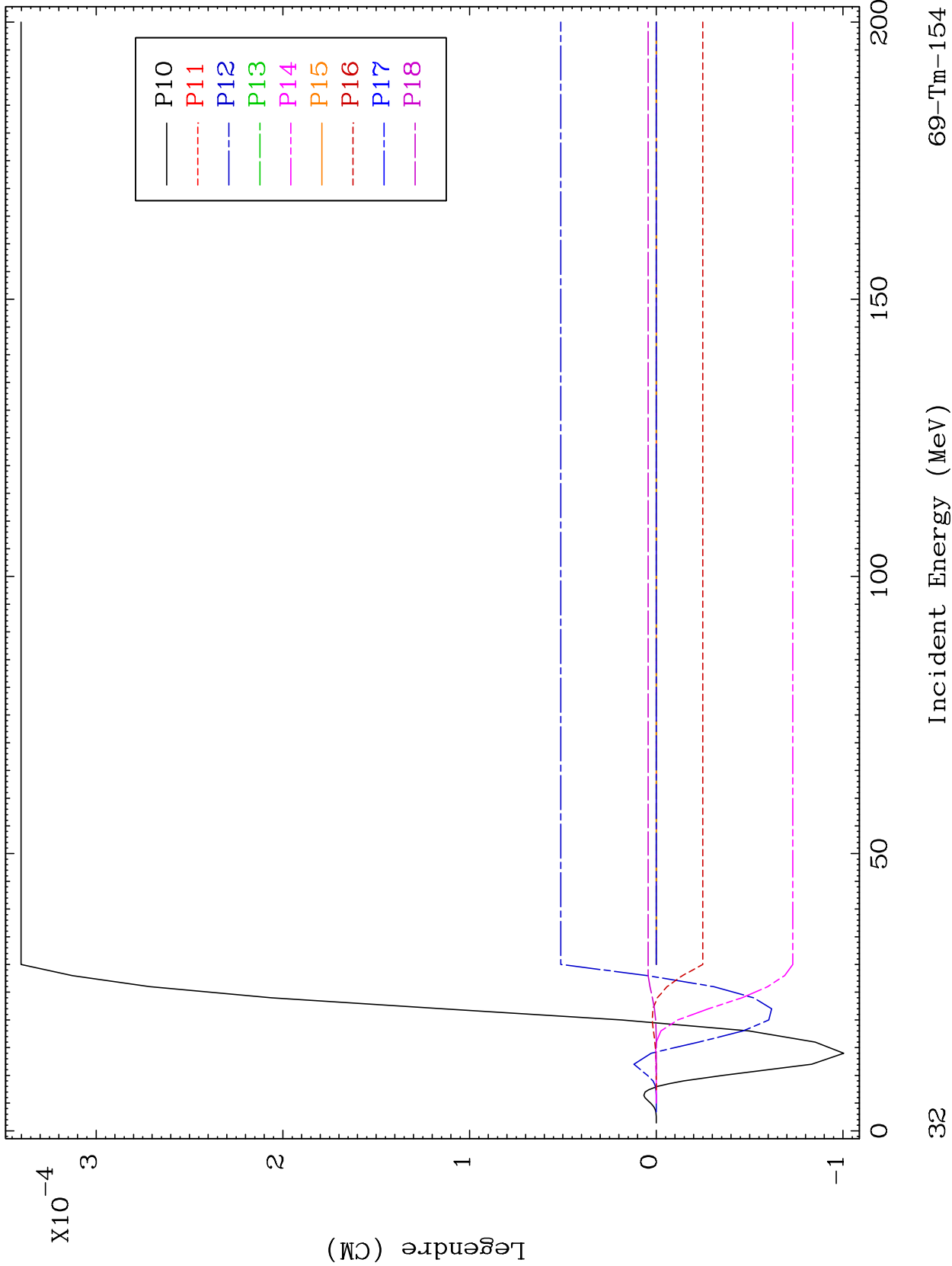
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

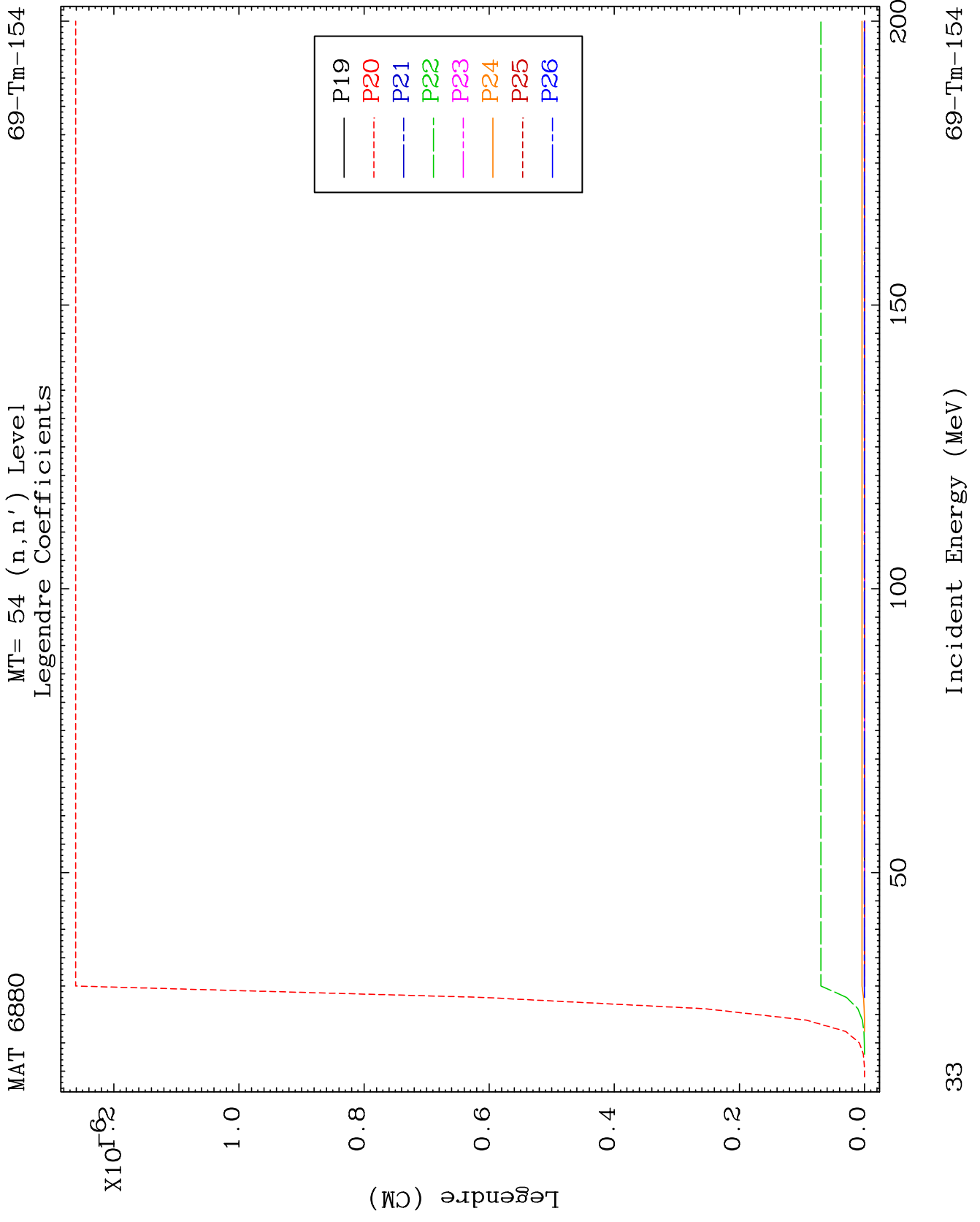
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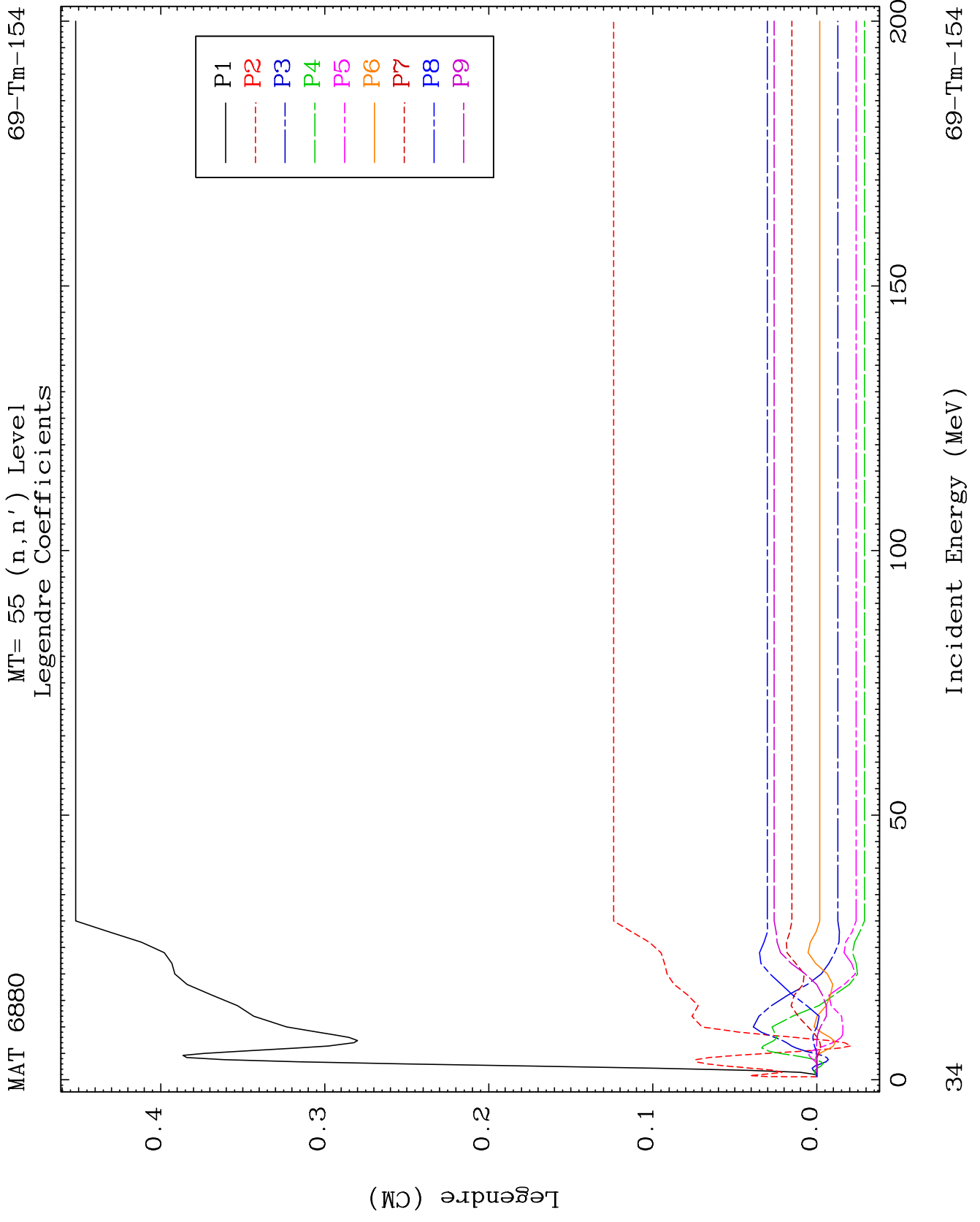


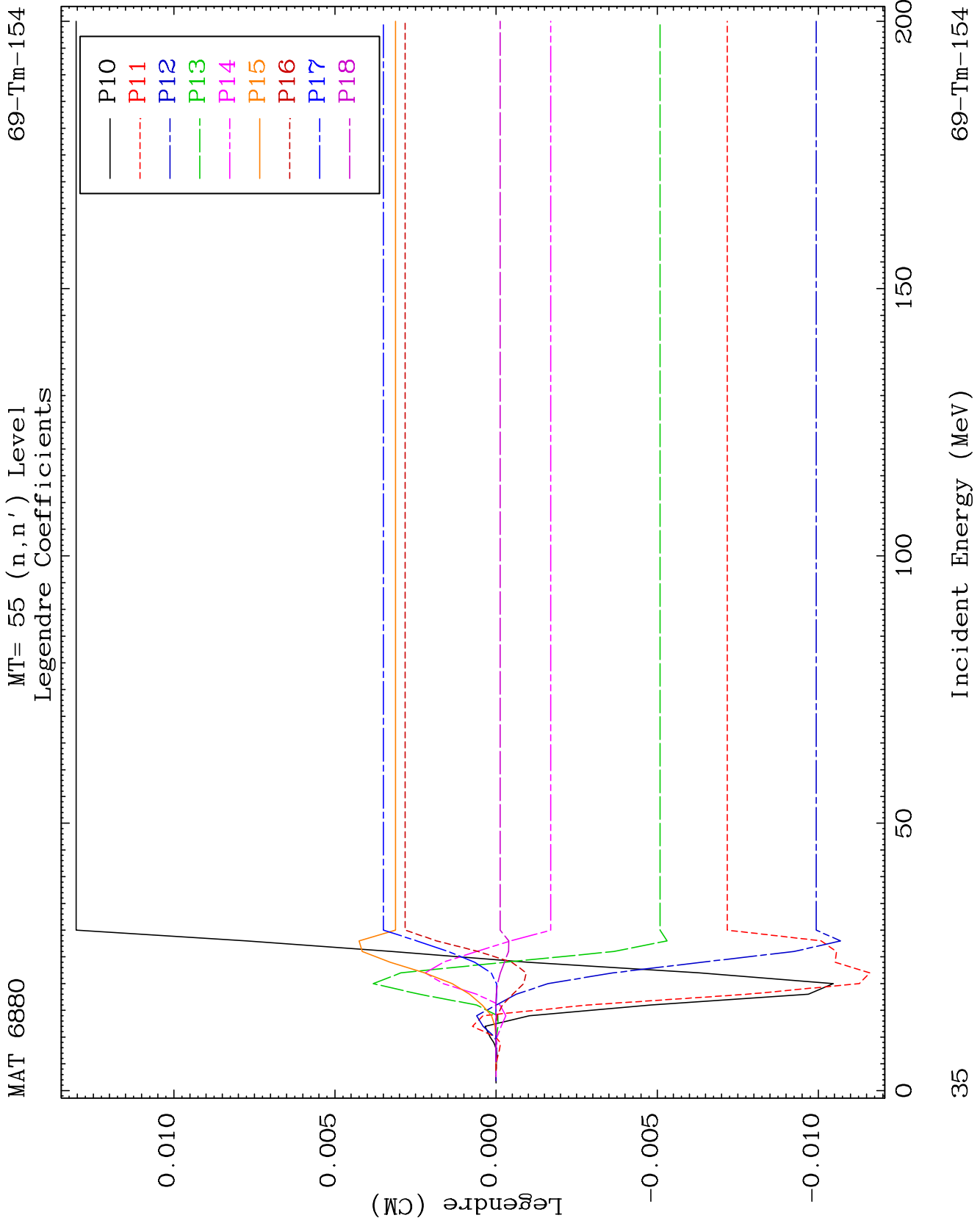
69-Tm-154

Incident Energy (MeV)

32



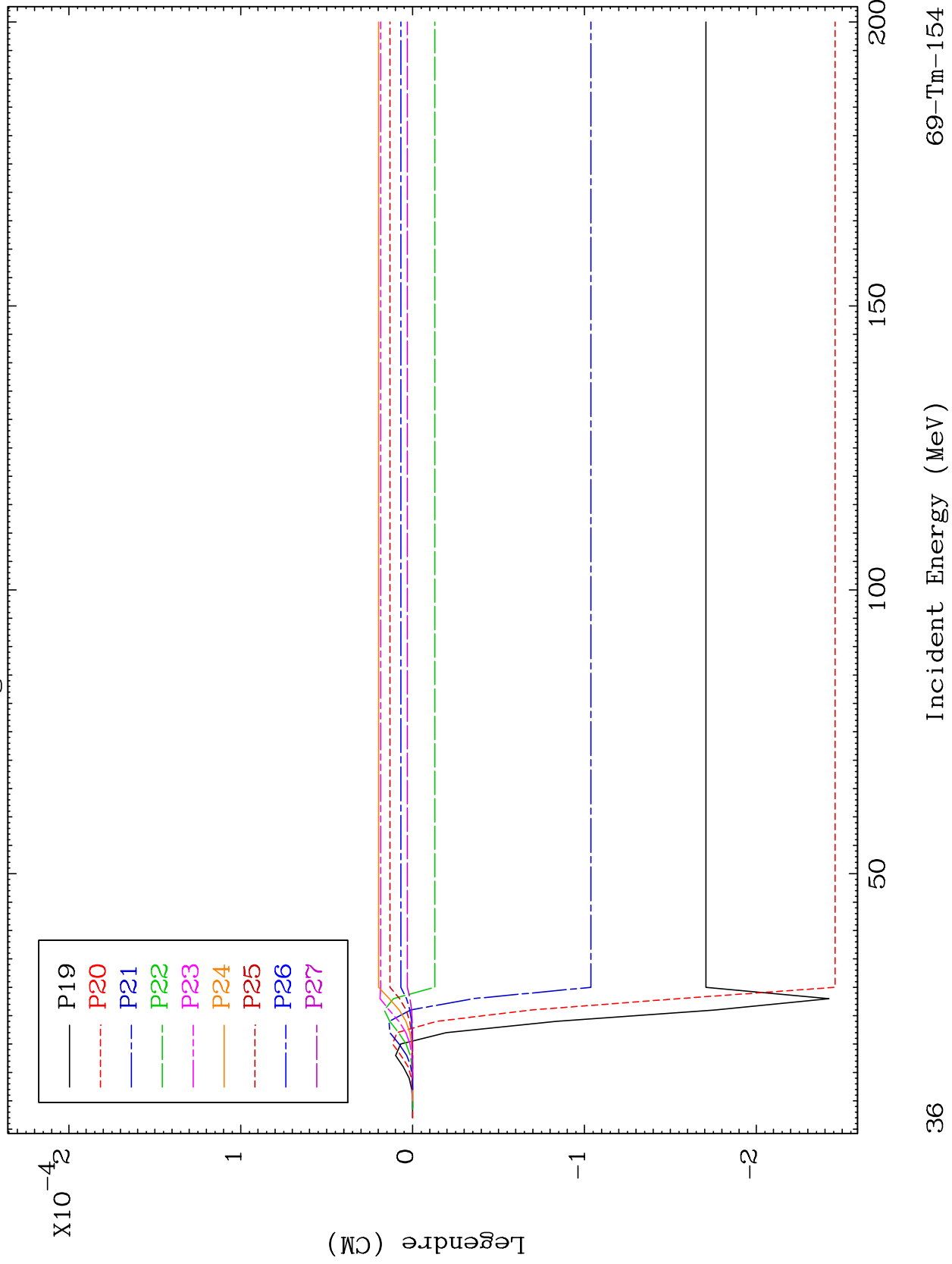




MAT 6880

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

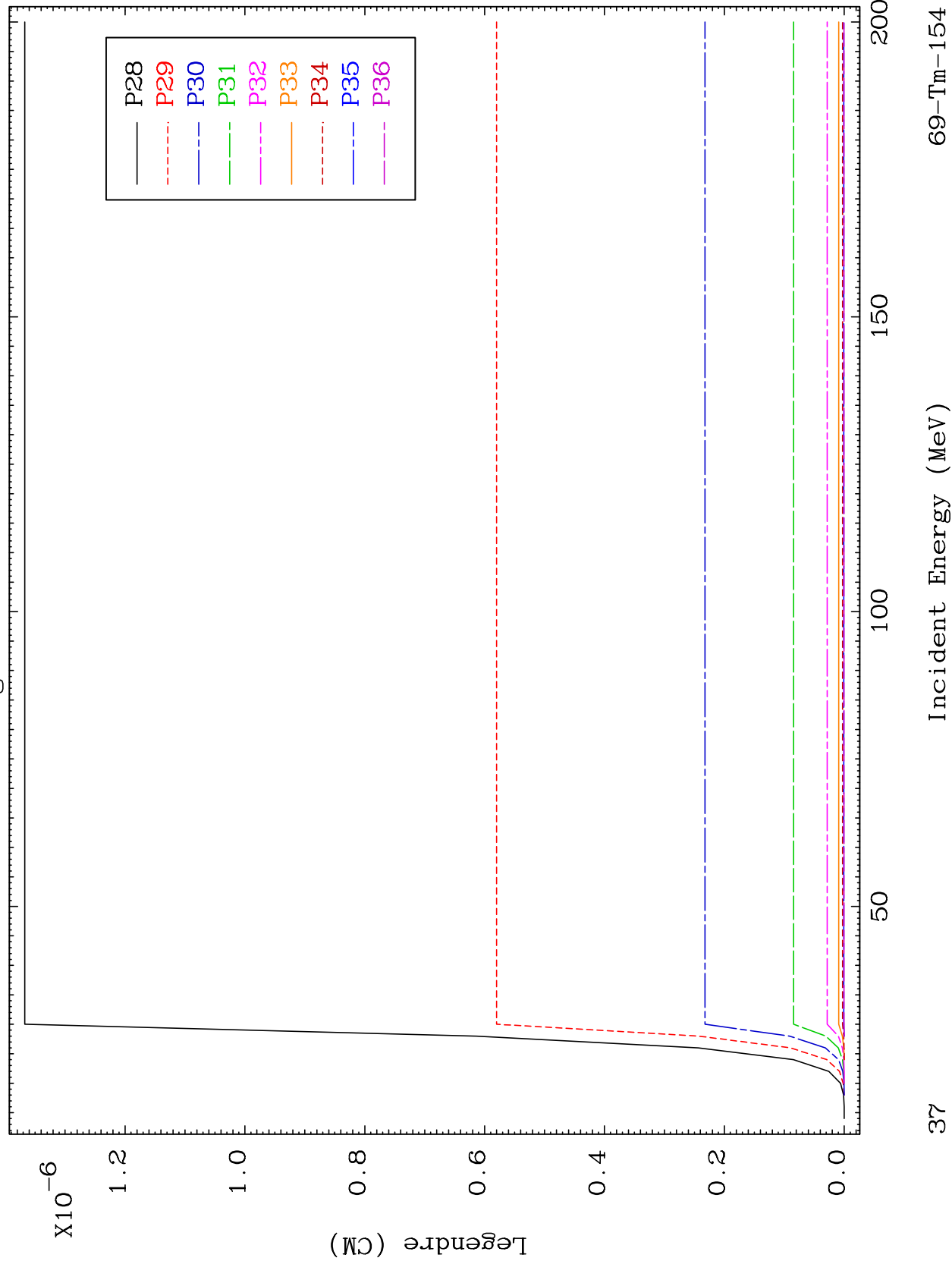
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MAT 6880

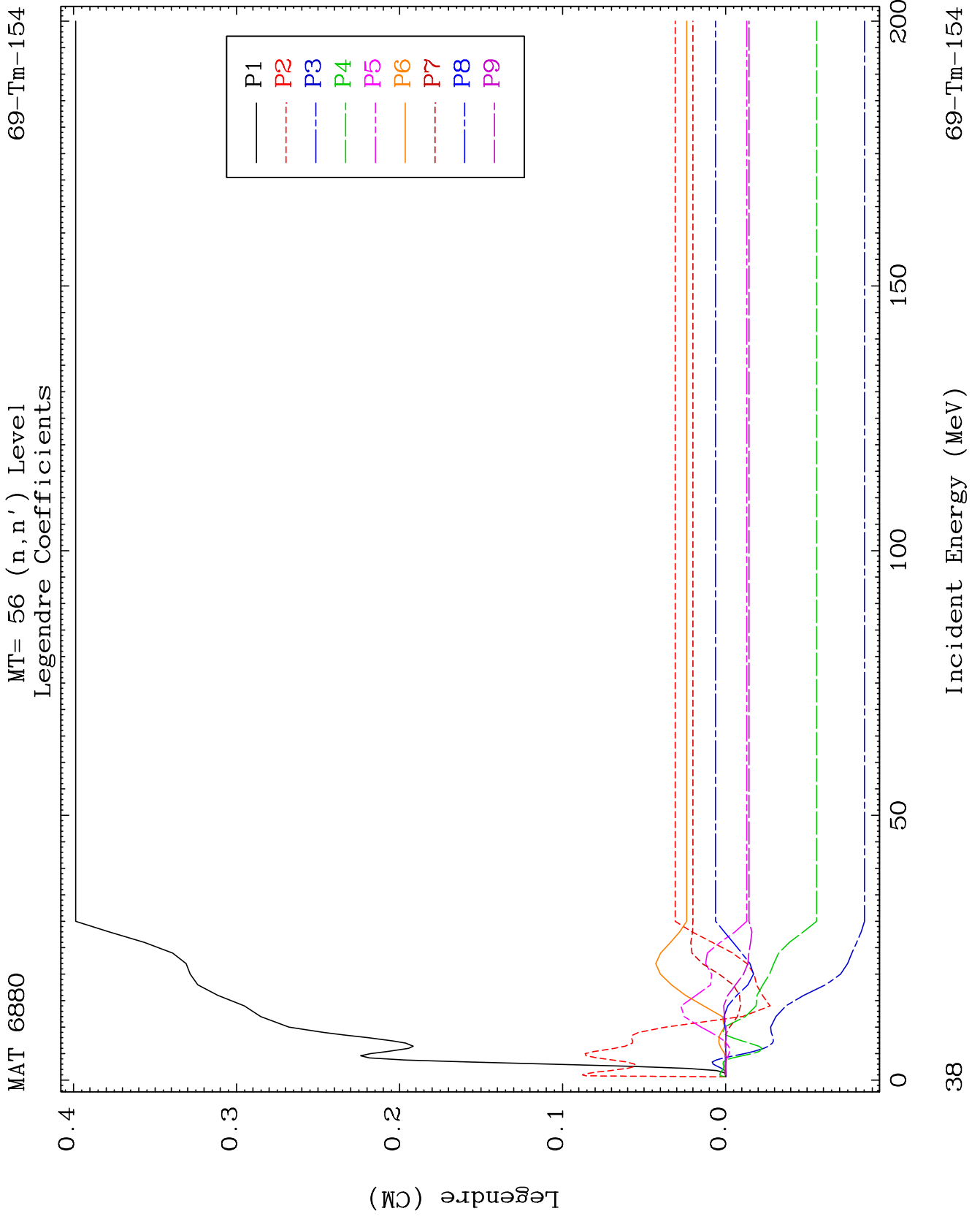
MT= 55 (n,n') Level
Legendre Coefficients

69-Tm-154



37

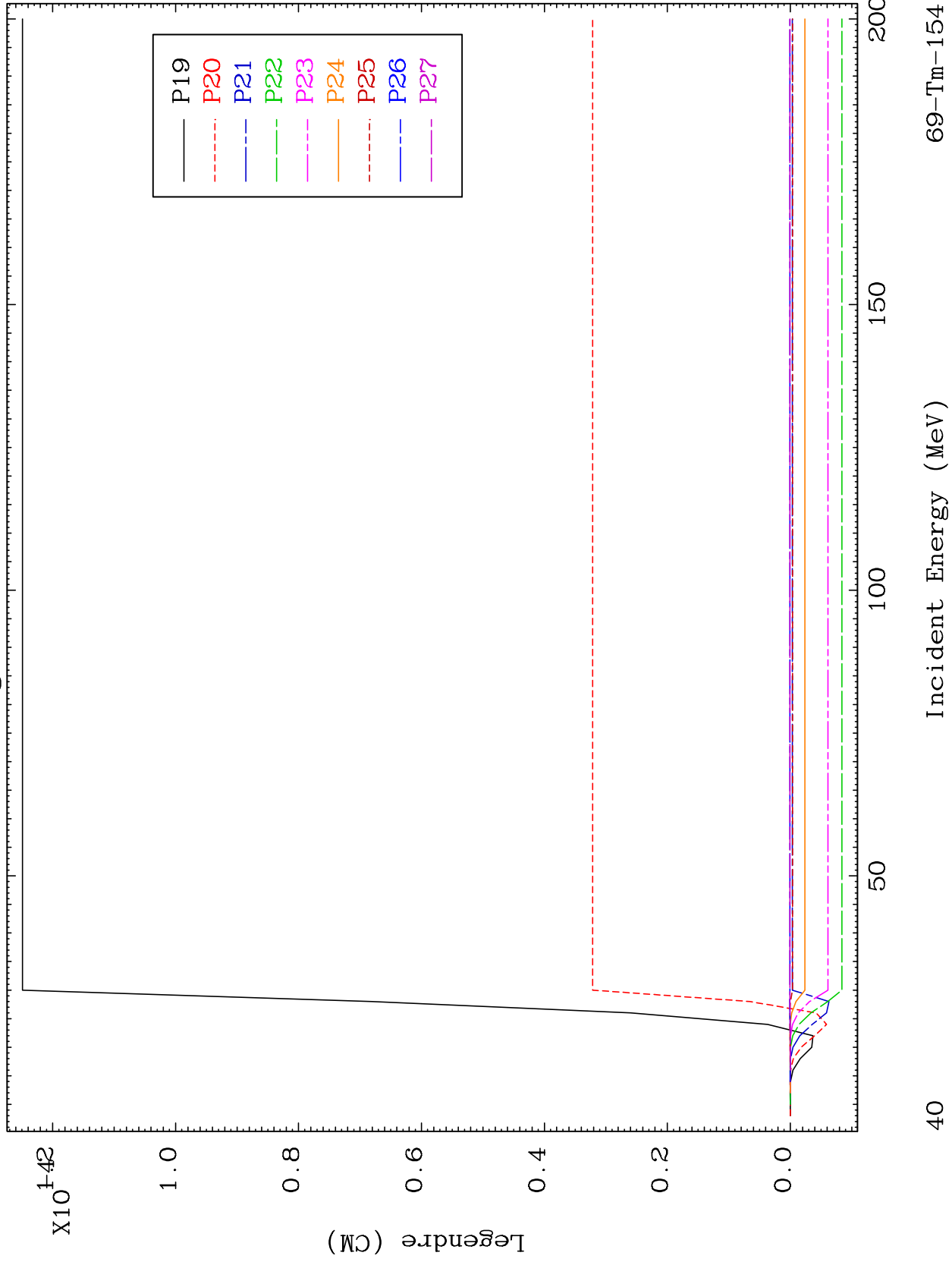
69-Tm-154



MAT 6880

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

69-Tm-154



40

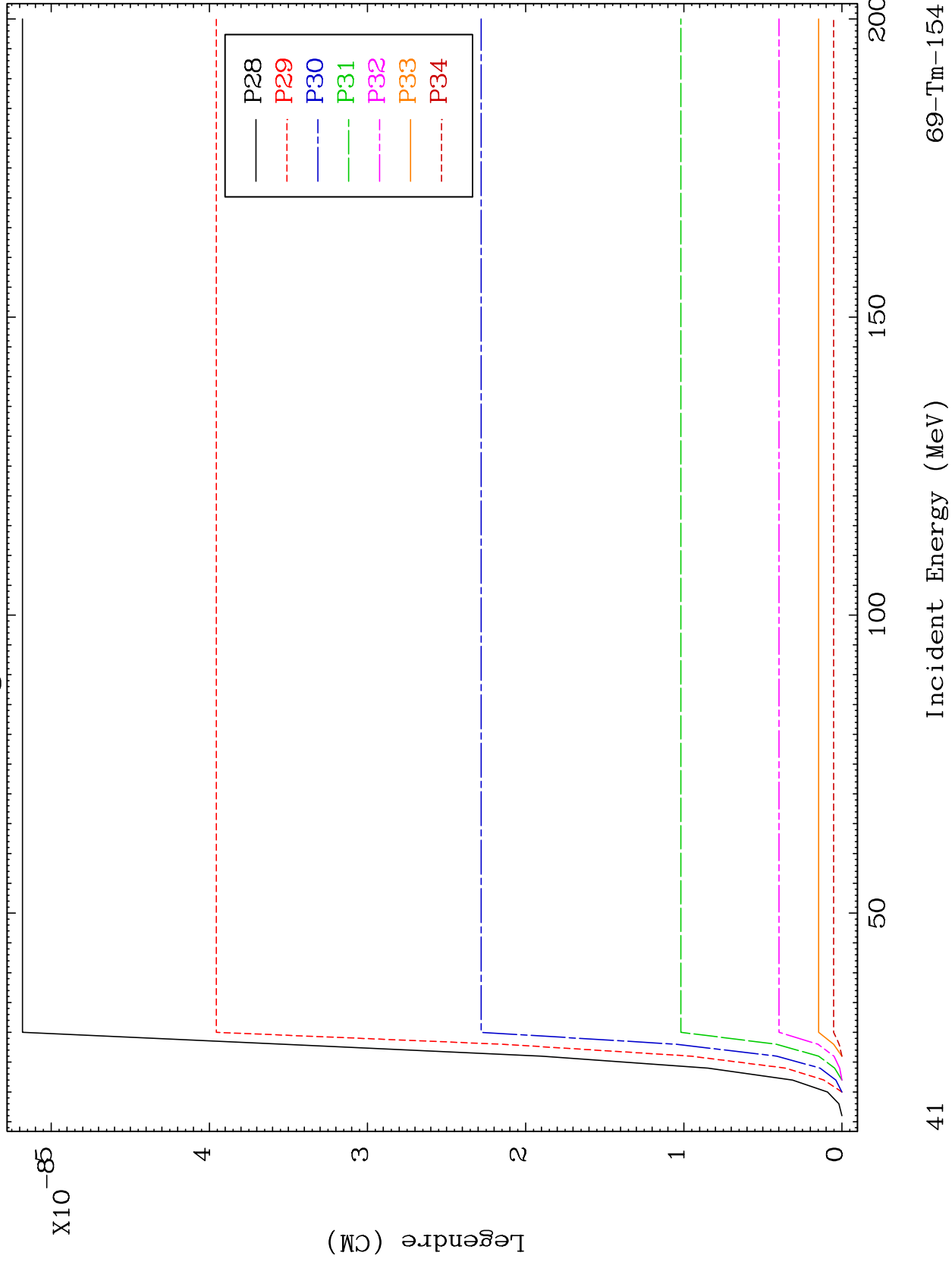
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

69-Tm-154



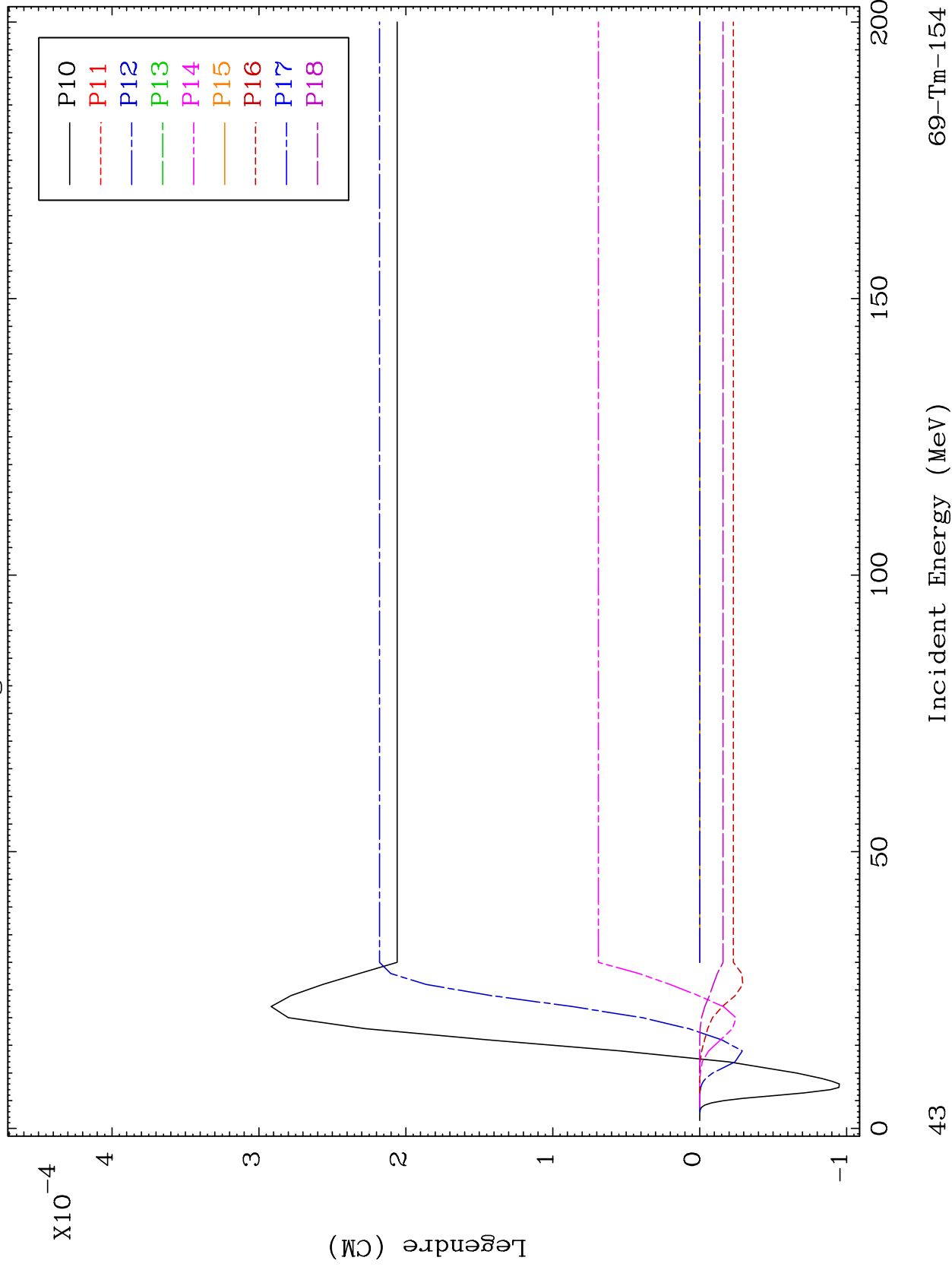
41

69-Tm-154

MAT 6880

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

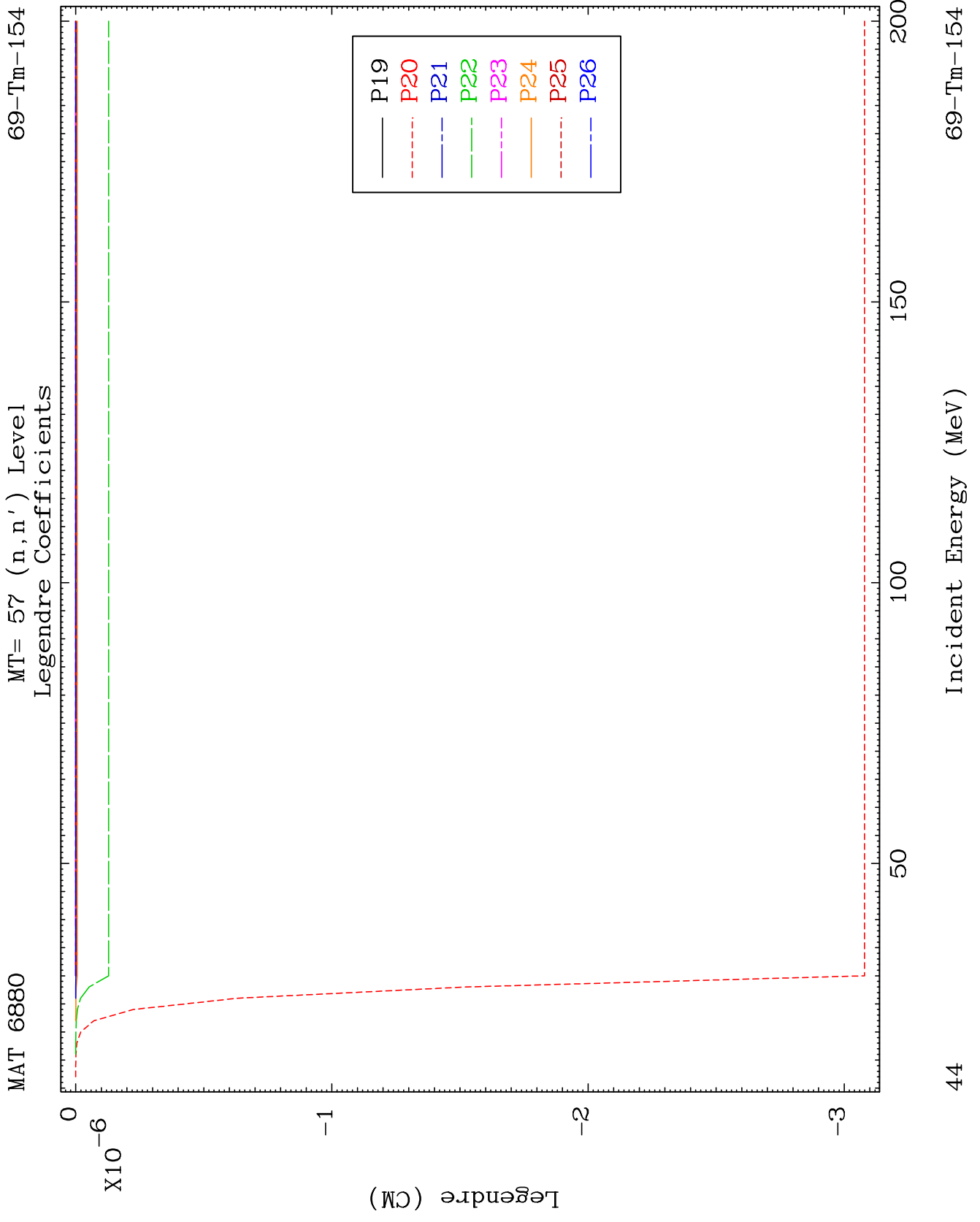
69-Tm-154



43

Incident Energy (MeV)

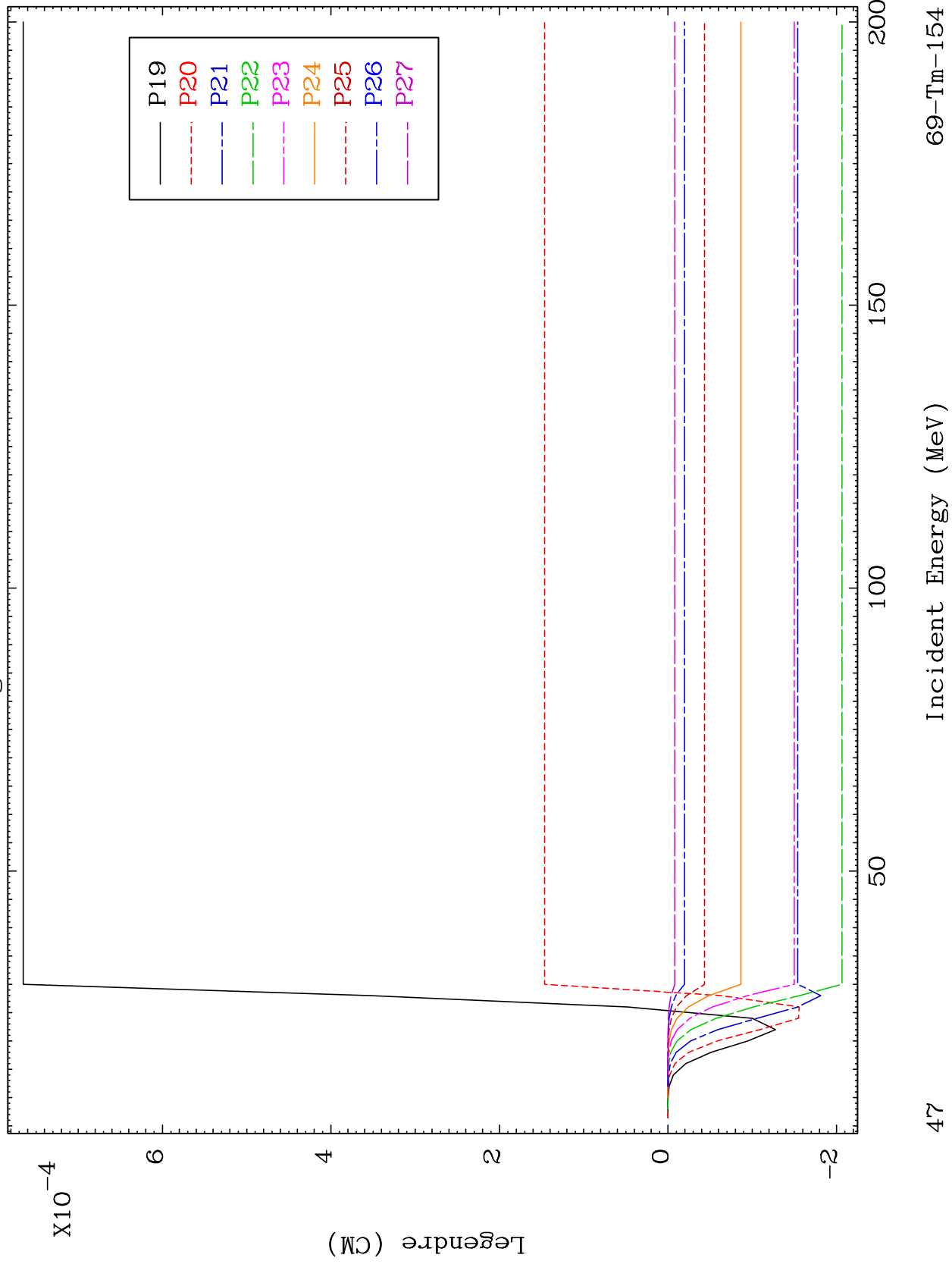
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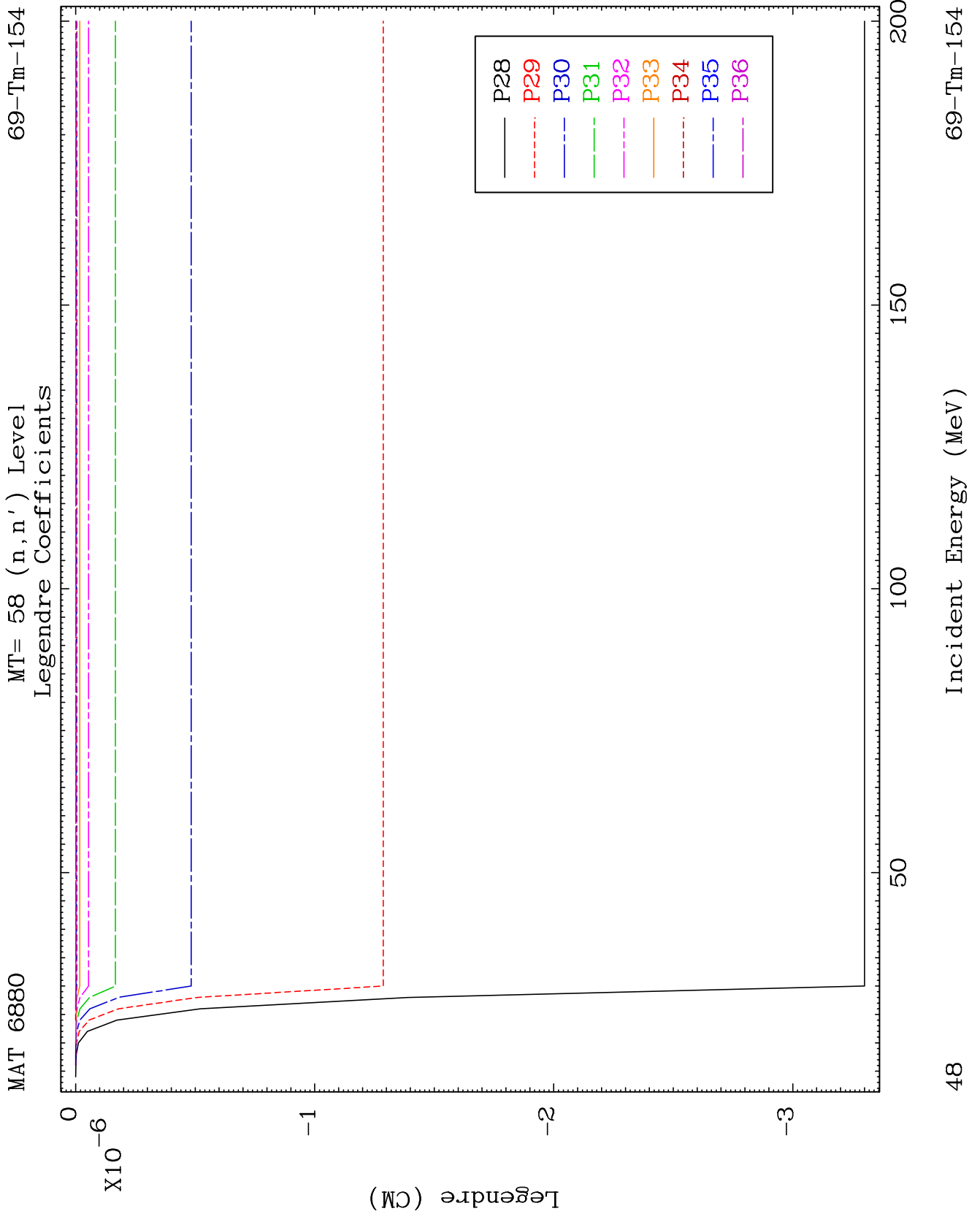


MAT 6880

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

69-Tm-154

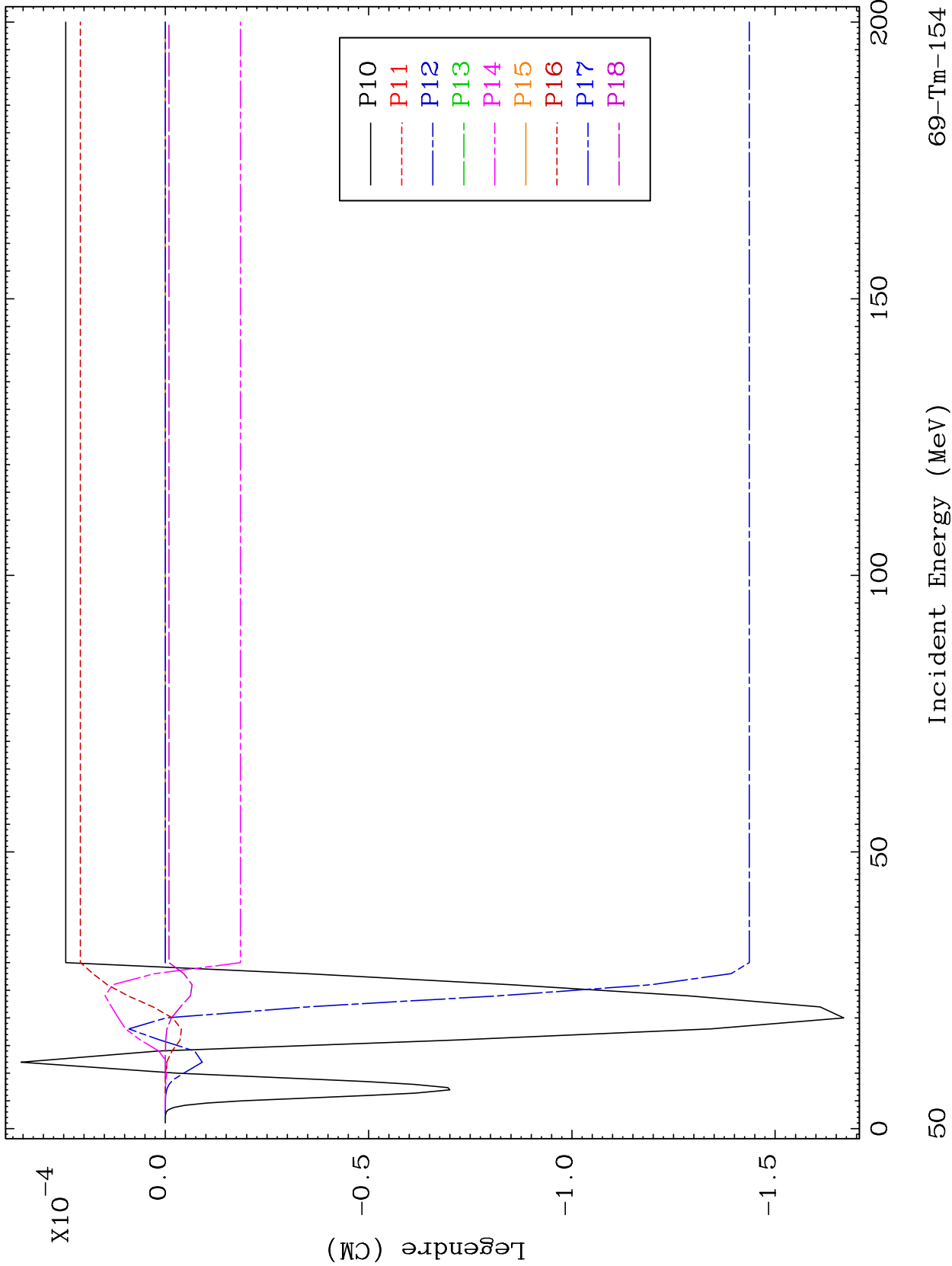




MAT 6880

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

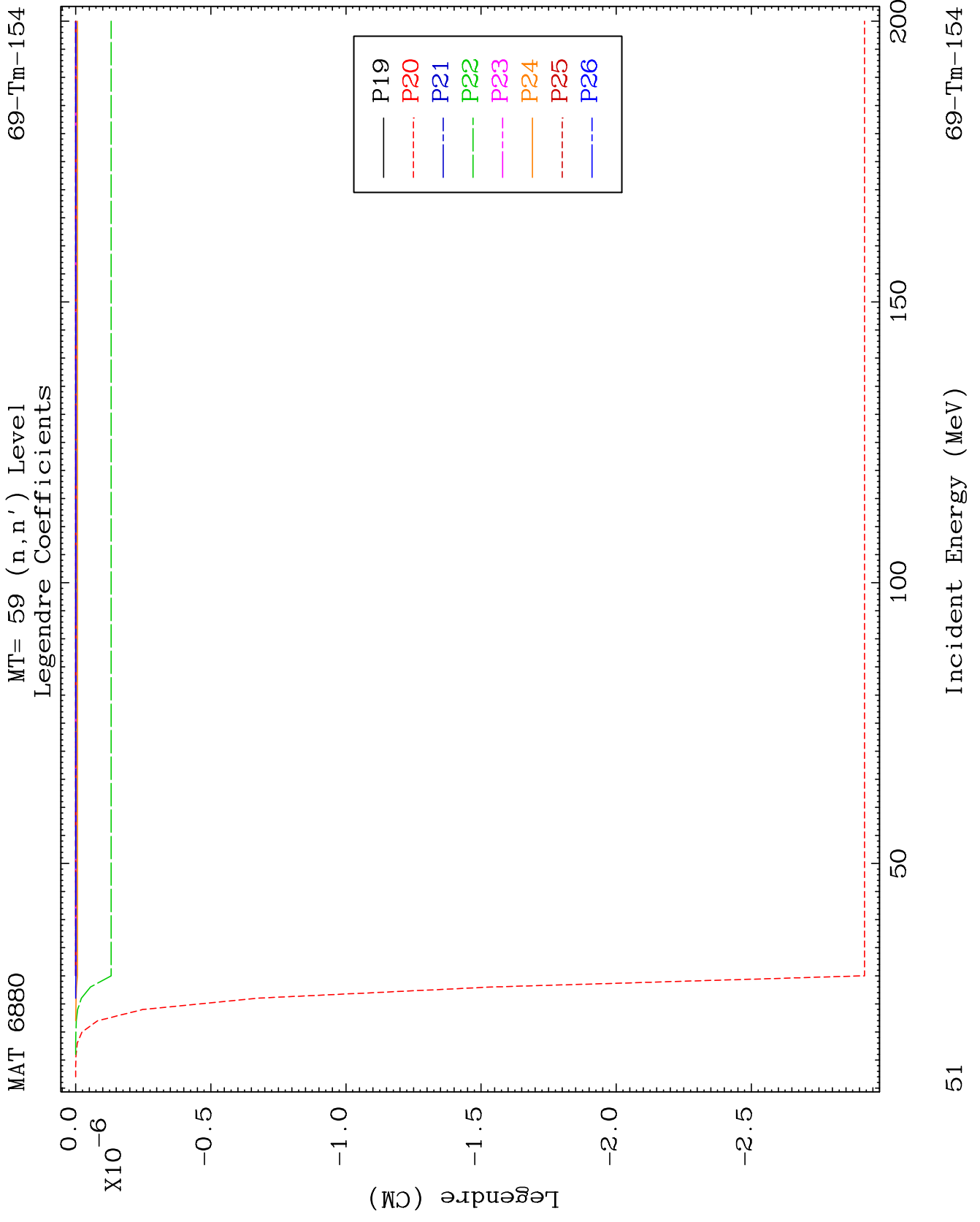
69-Tm-154



69-Tm-154

Incident Energy (MeV)

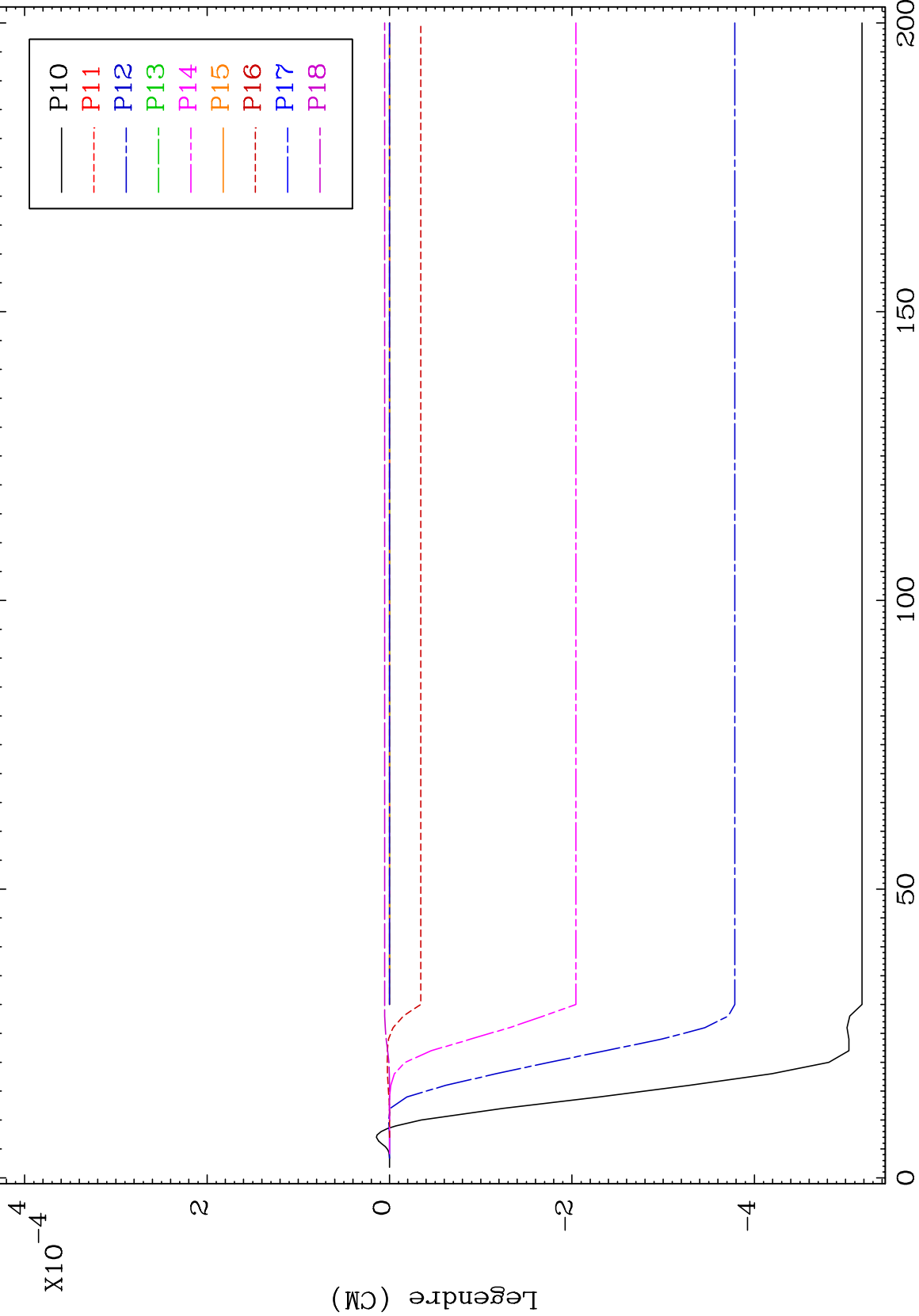
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MAT 6880

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

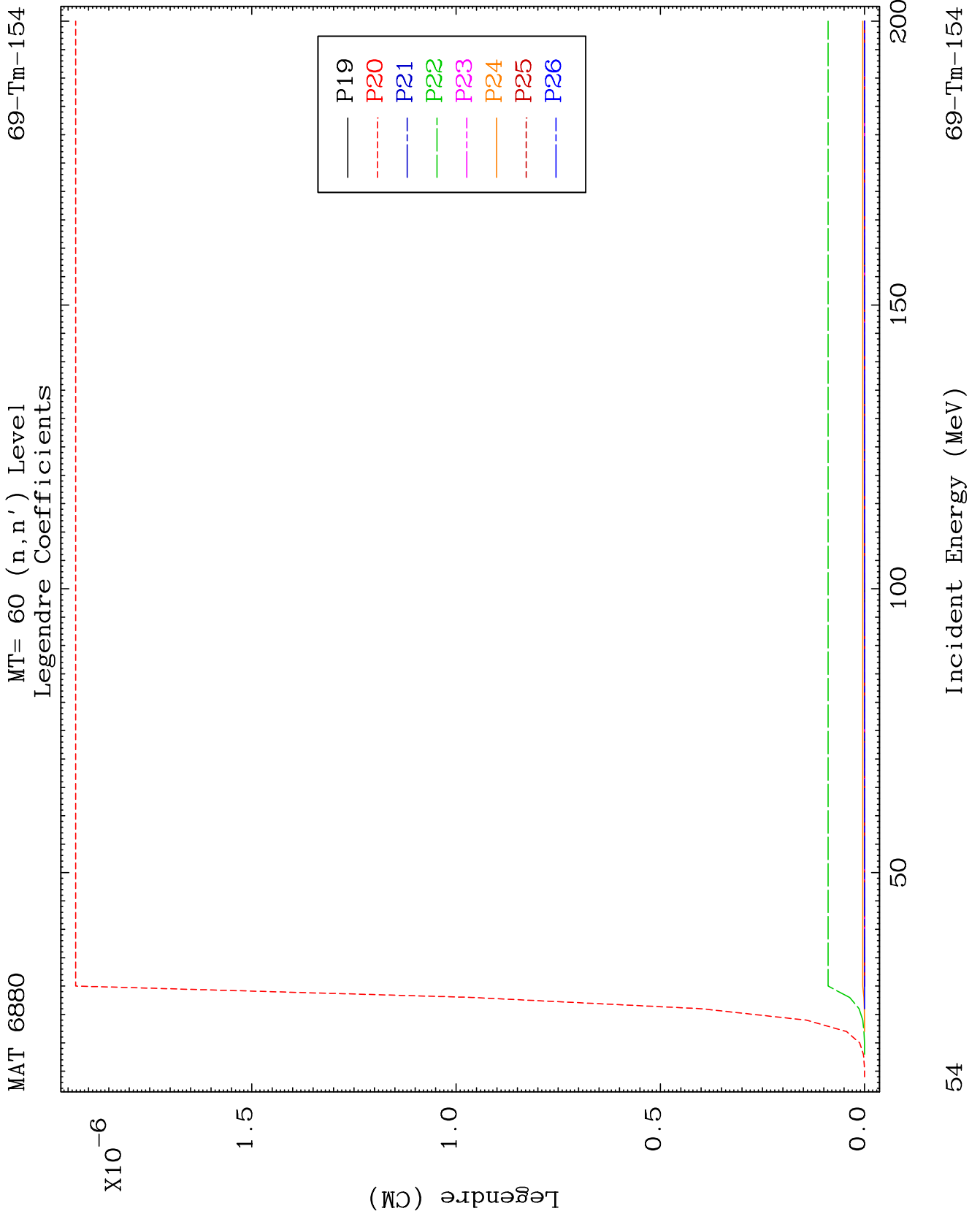
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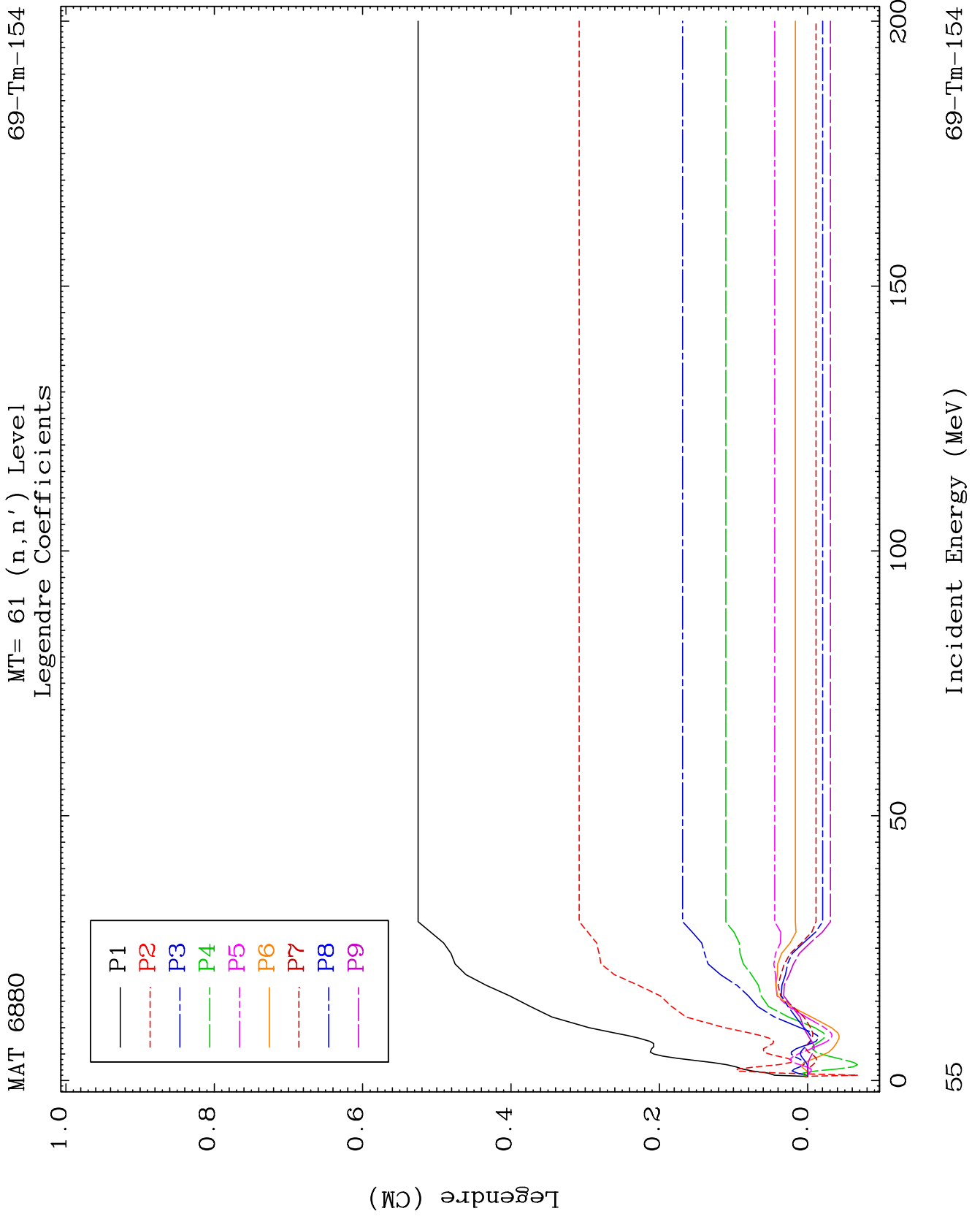


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Incident Energy (MeV)

69-Tm-154

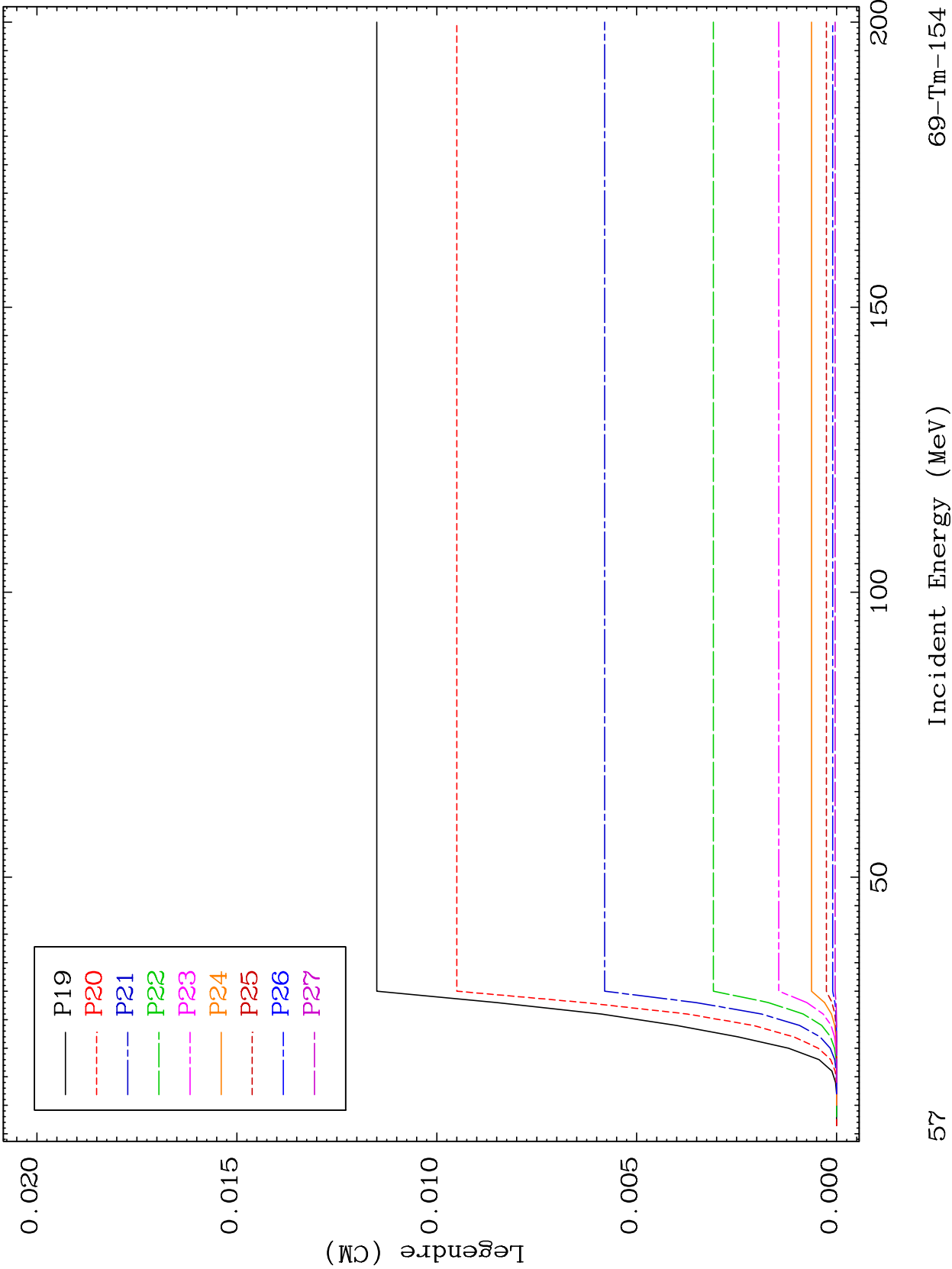




MAT 6880

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

69-Tm-154



57

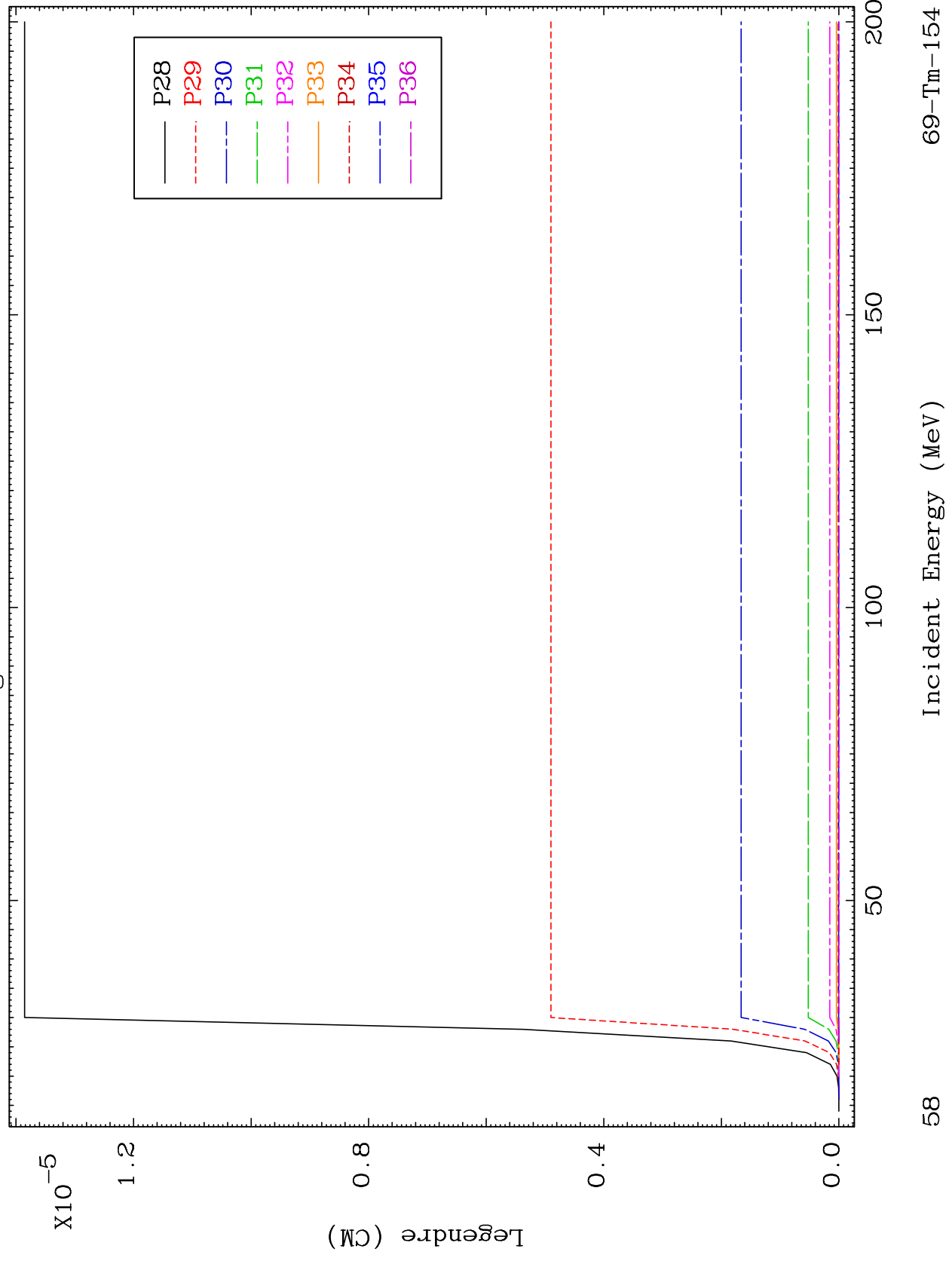
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

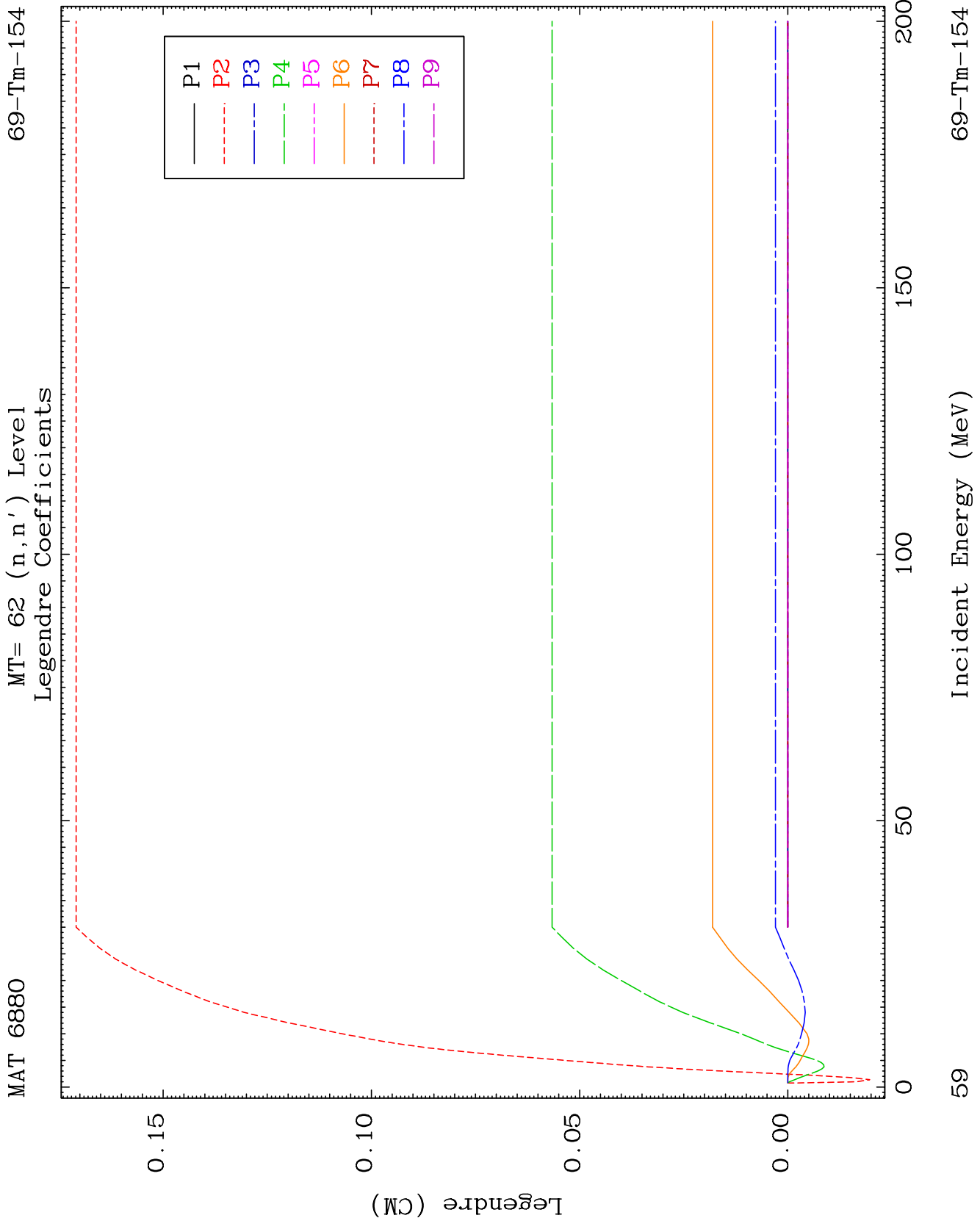
69-Tm-154



69-Tm-154

Incident Energy (MeV)

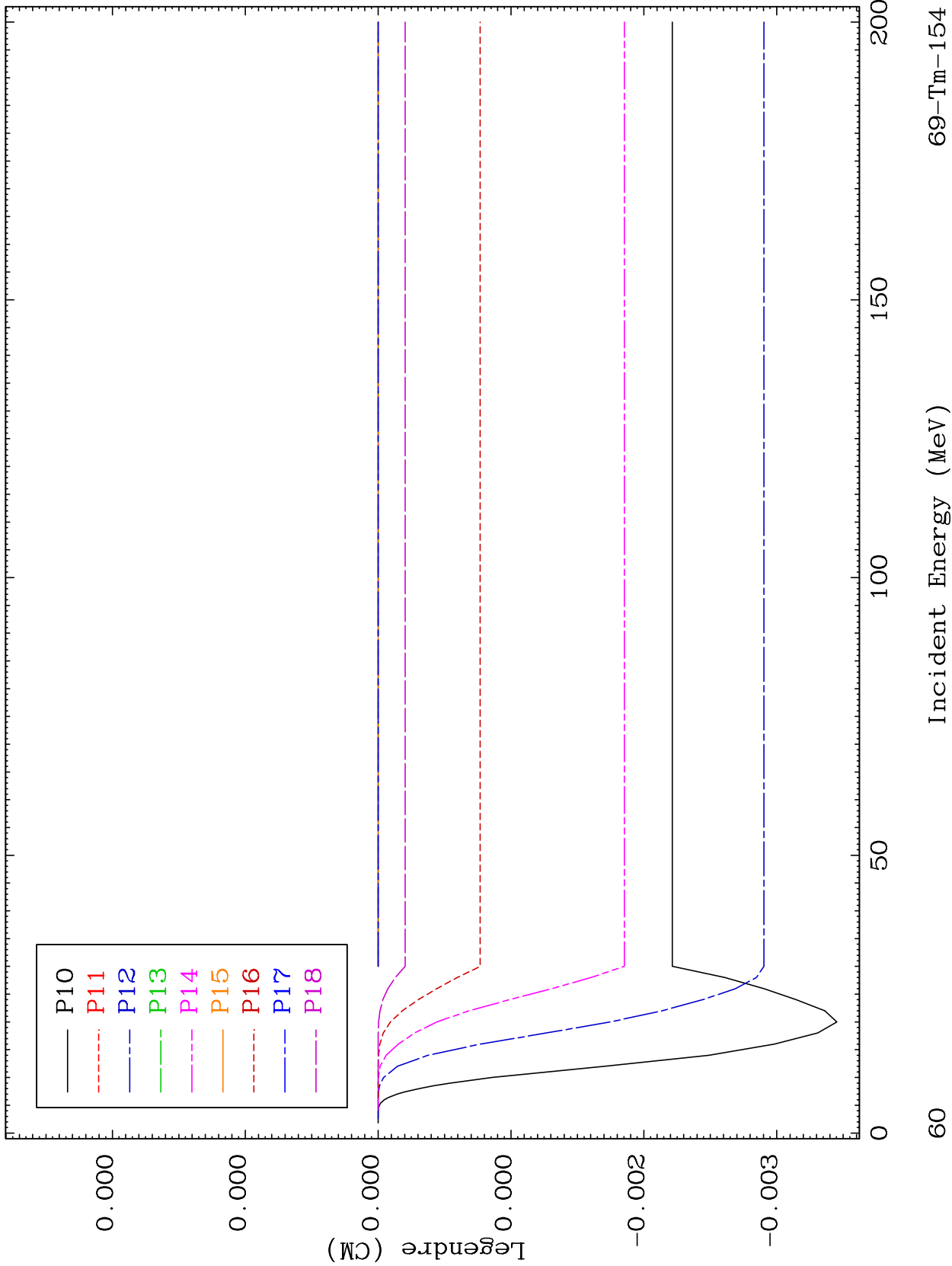
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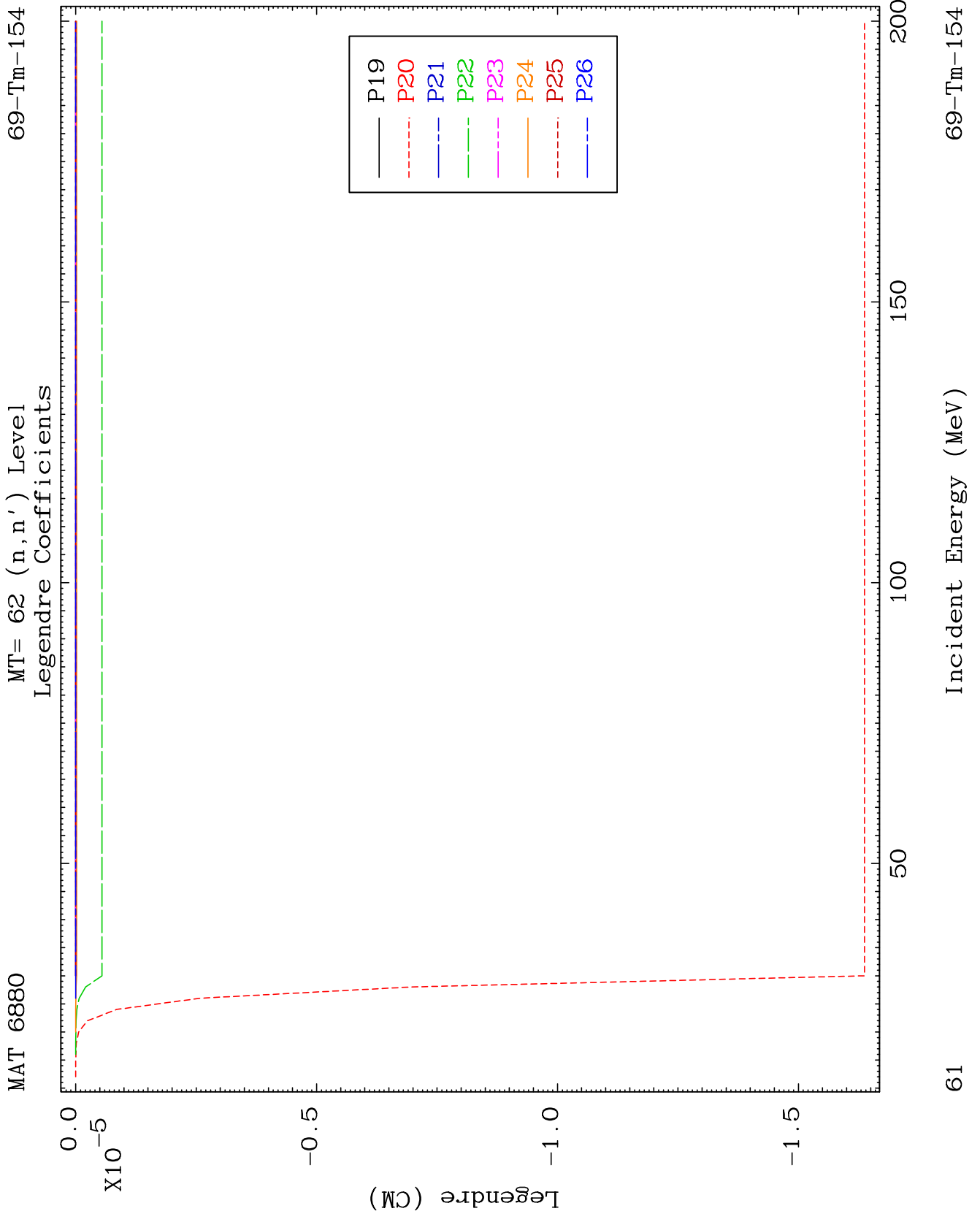
MAT 6880

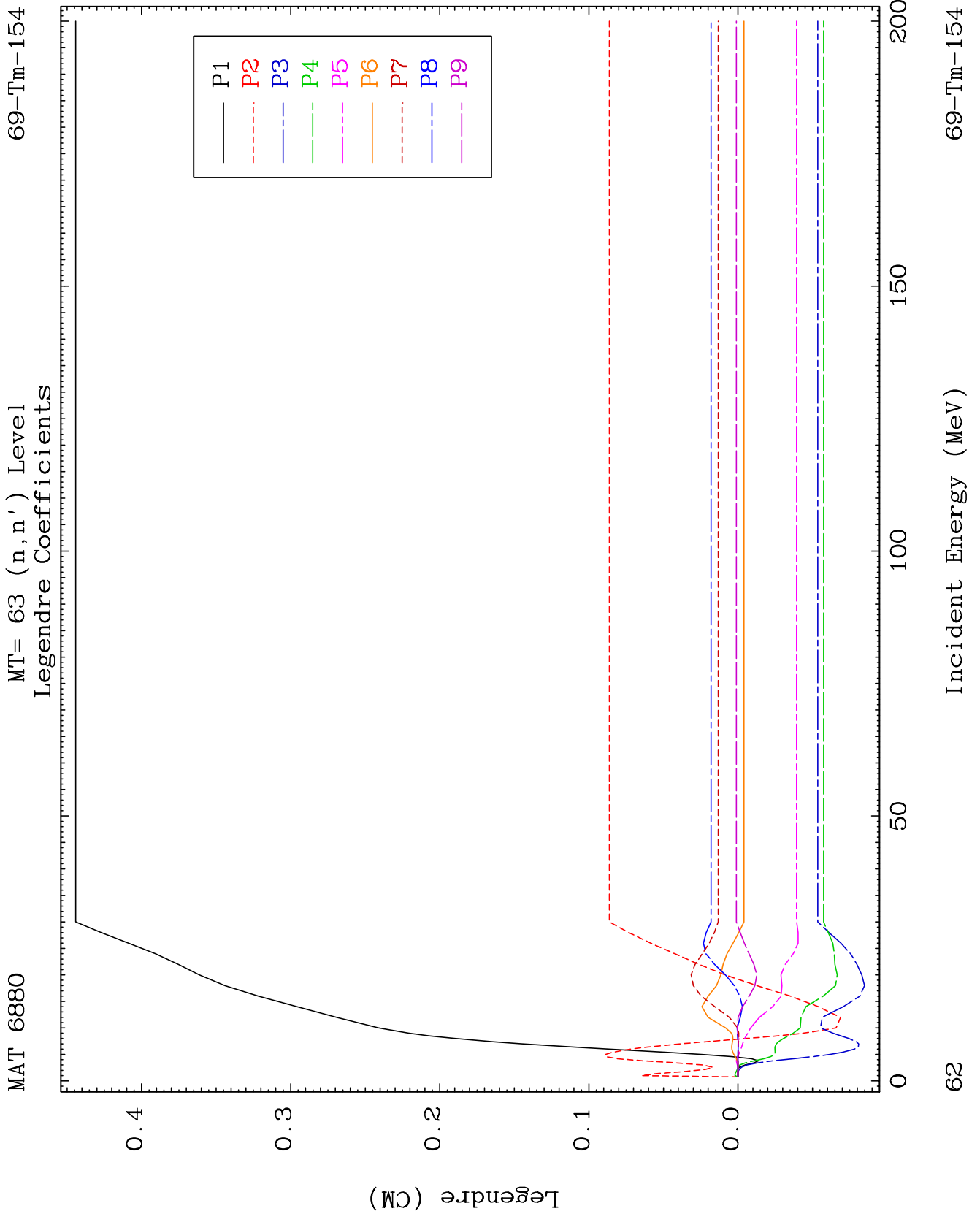
MT= 62 (n,n') Level
Legendre Coefficients

69-Tm-154



69-Tm-154

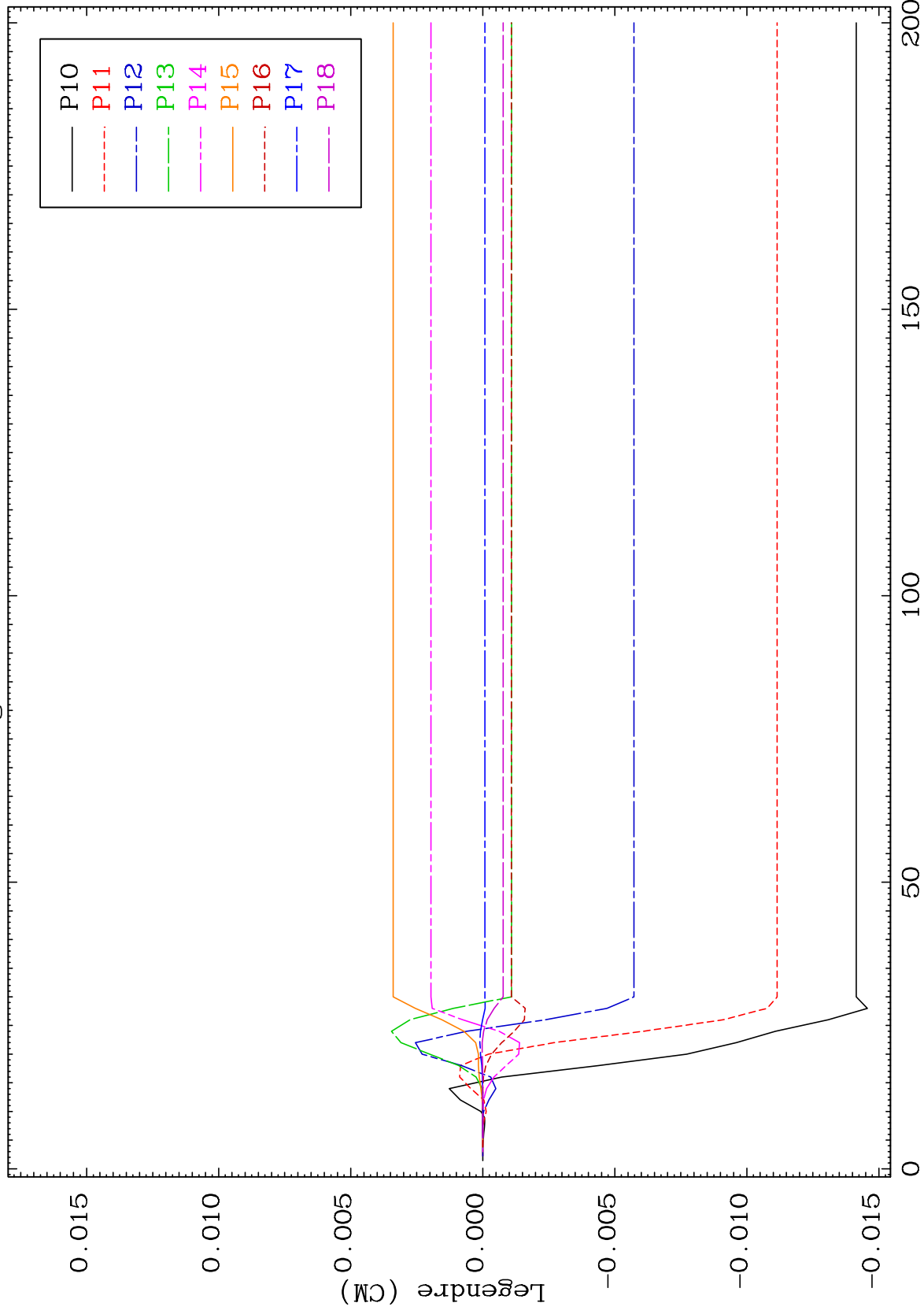




MAT 6880

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

69-Tm-154



63

Incident Energy (MeV)

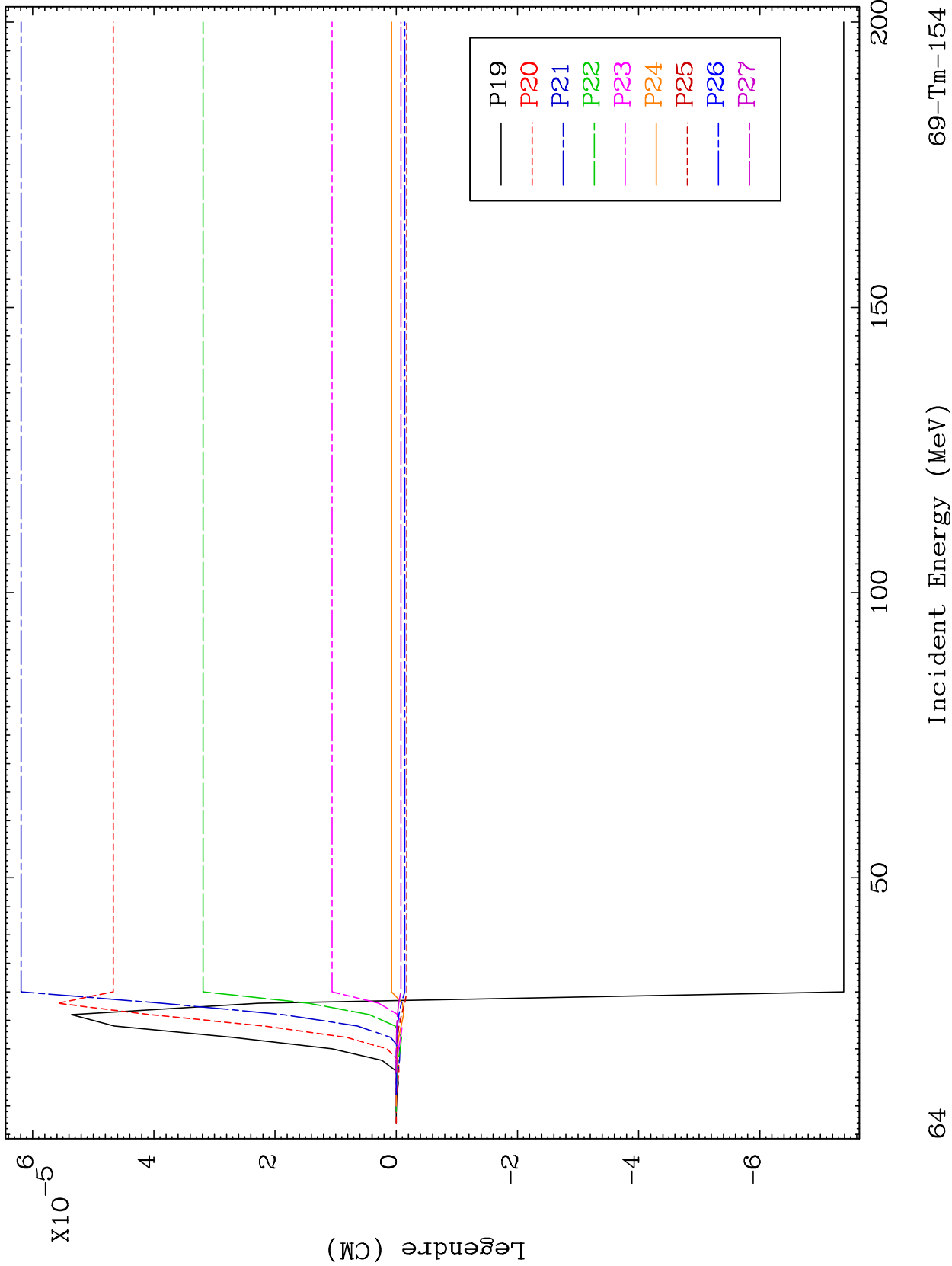
69-Tm-154

MAT 6880

MT= 63 (n,n') Level

69-Tm-154

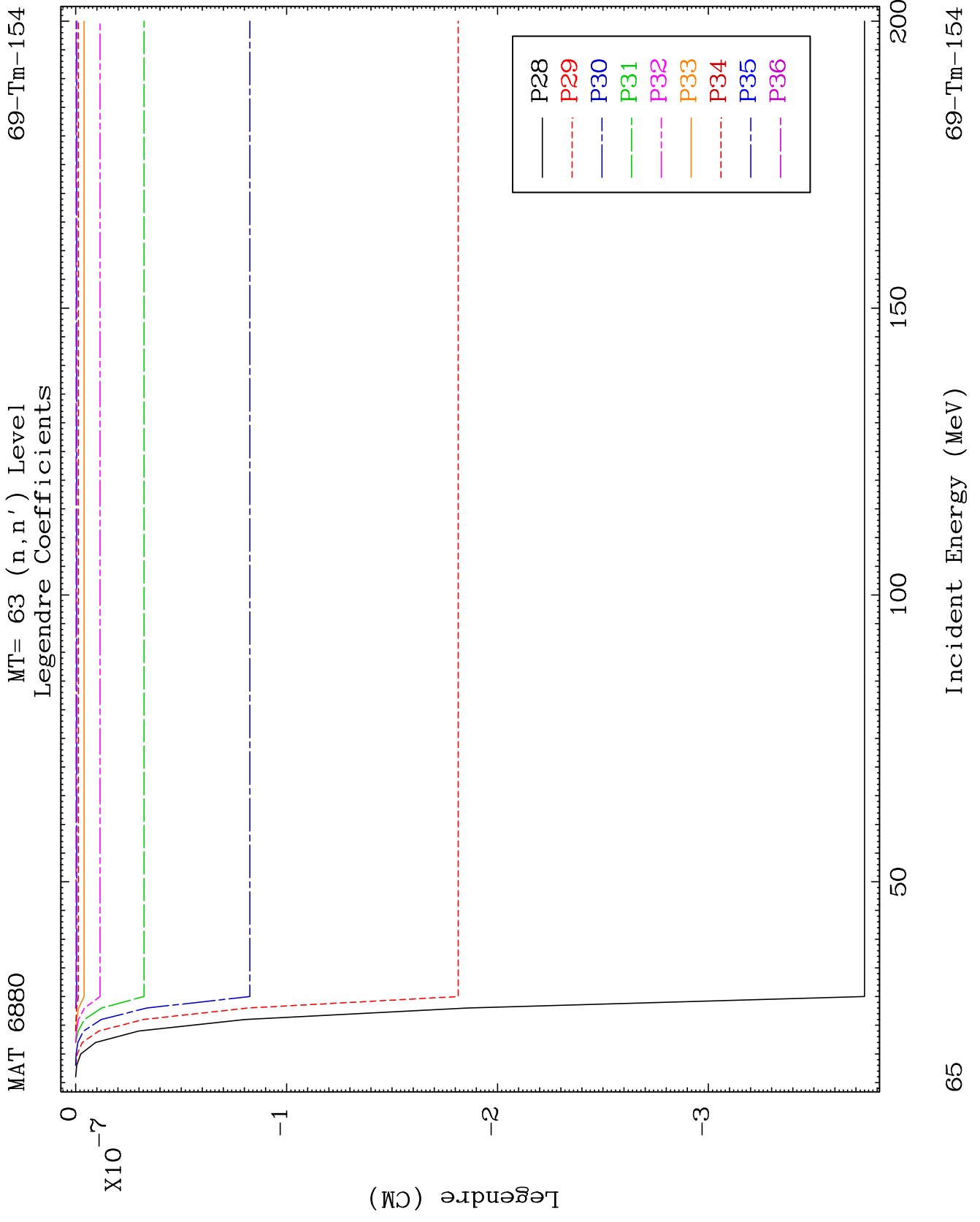
Legendre Coefficients

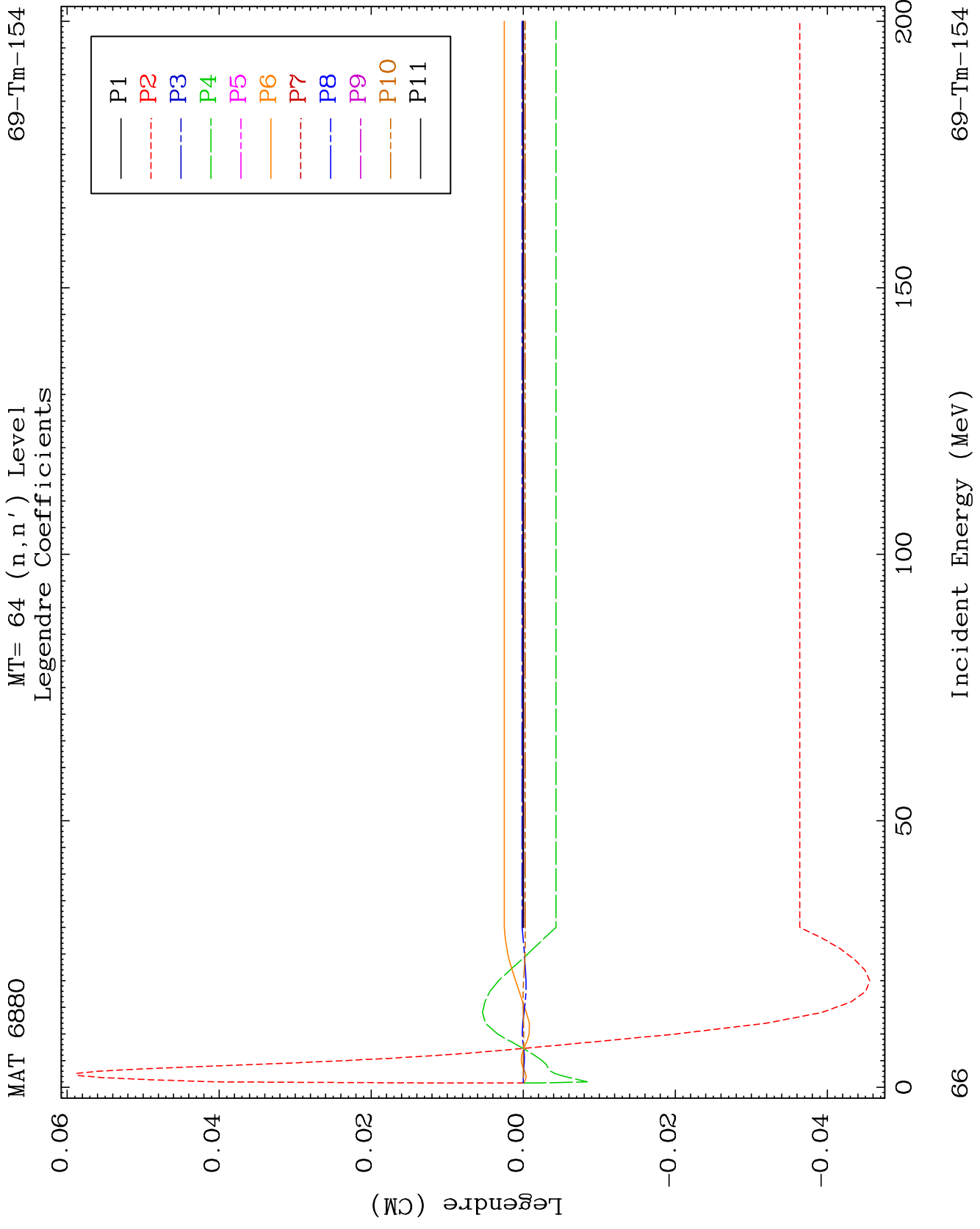


64

Incident Energy (MeV)

69-Tm-154

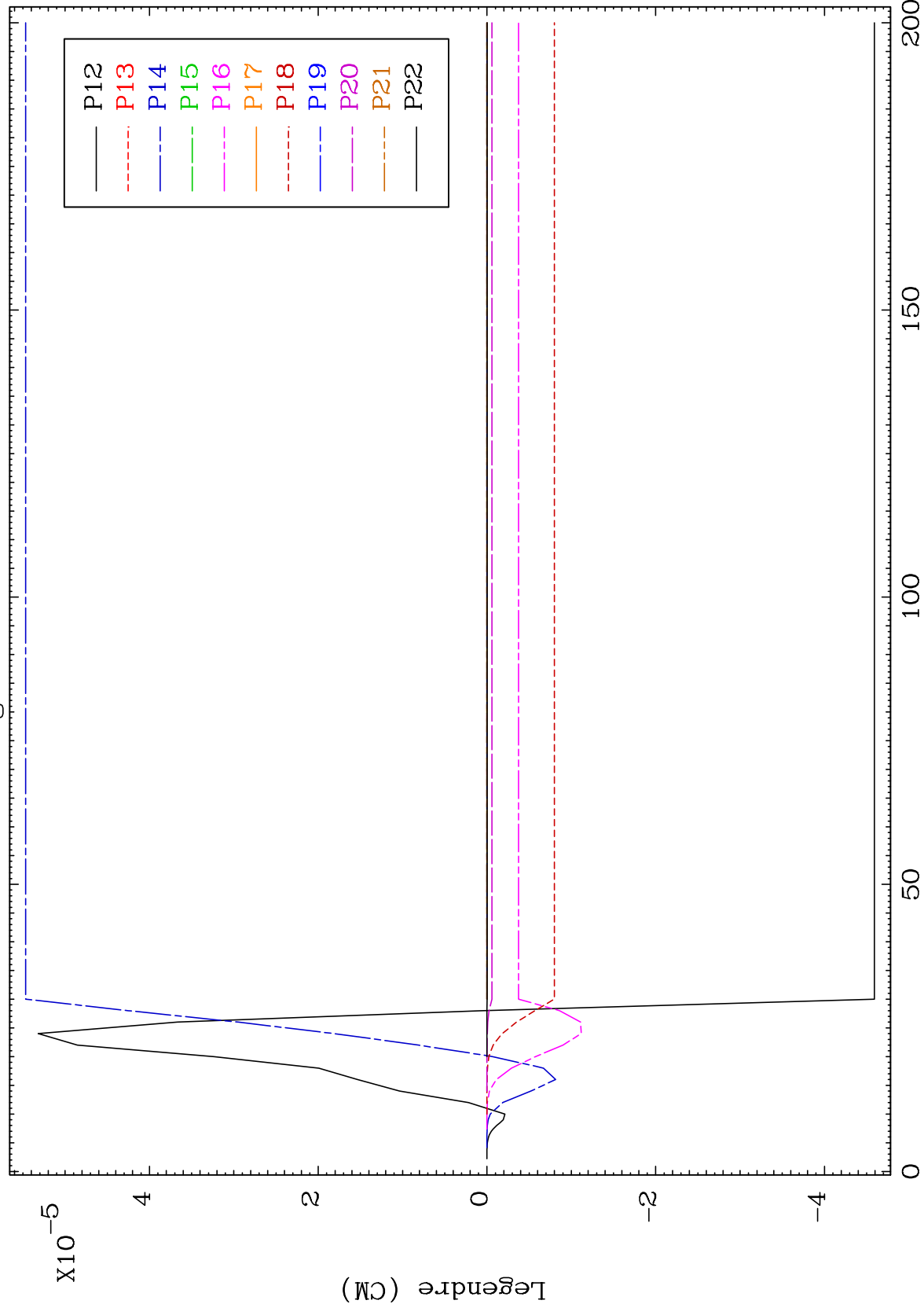




MAT 6880

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

69-Tm-154



67

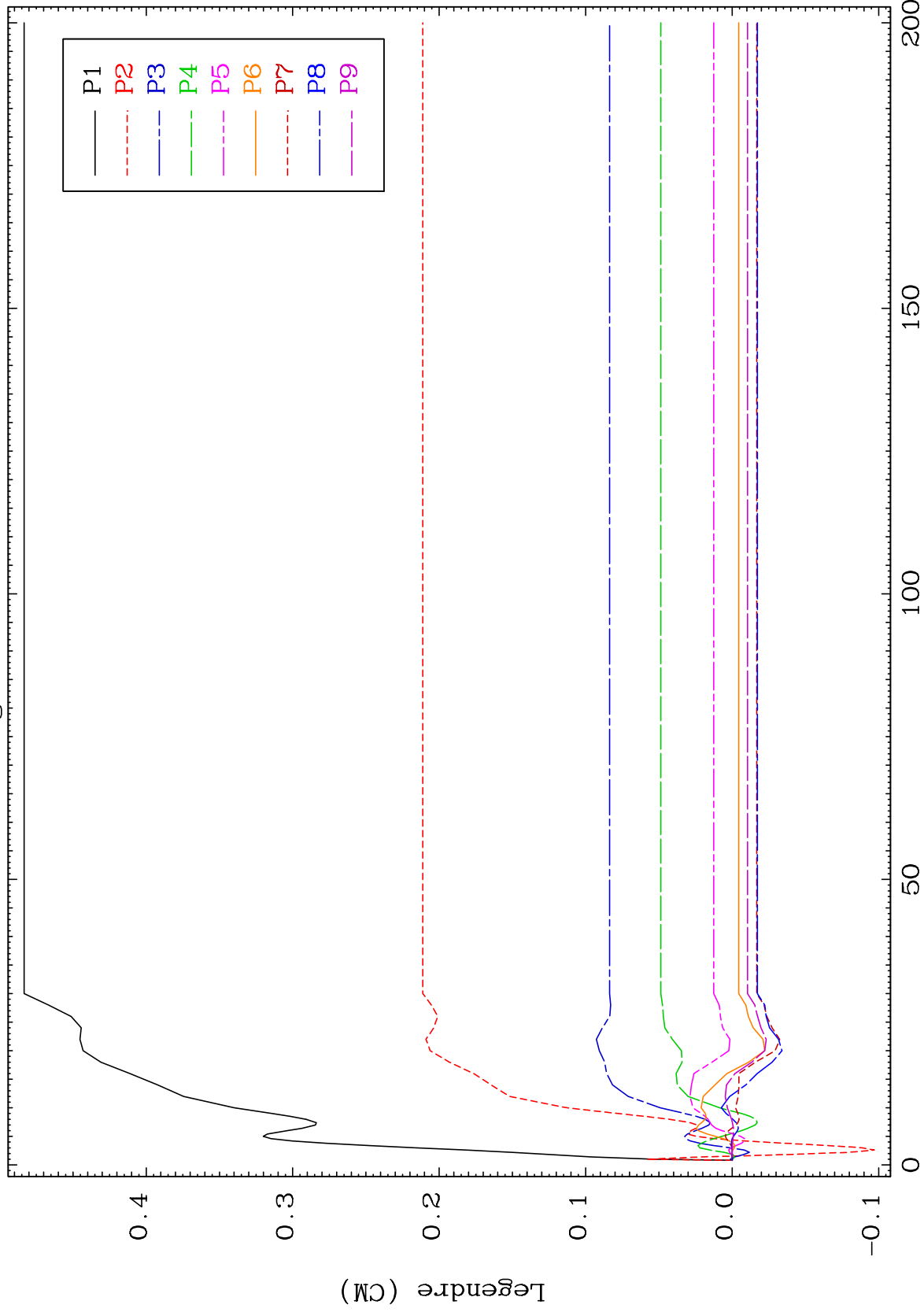
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

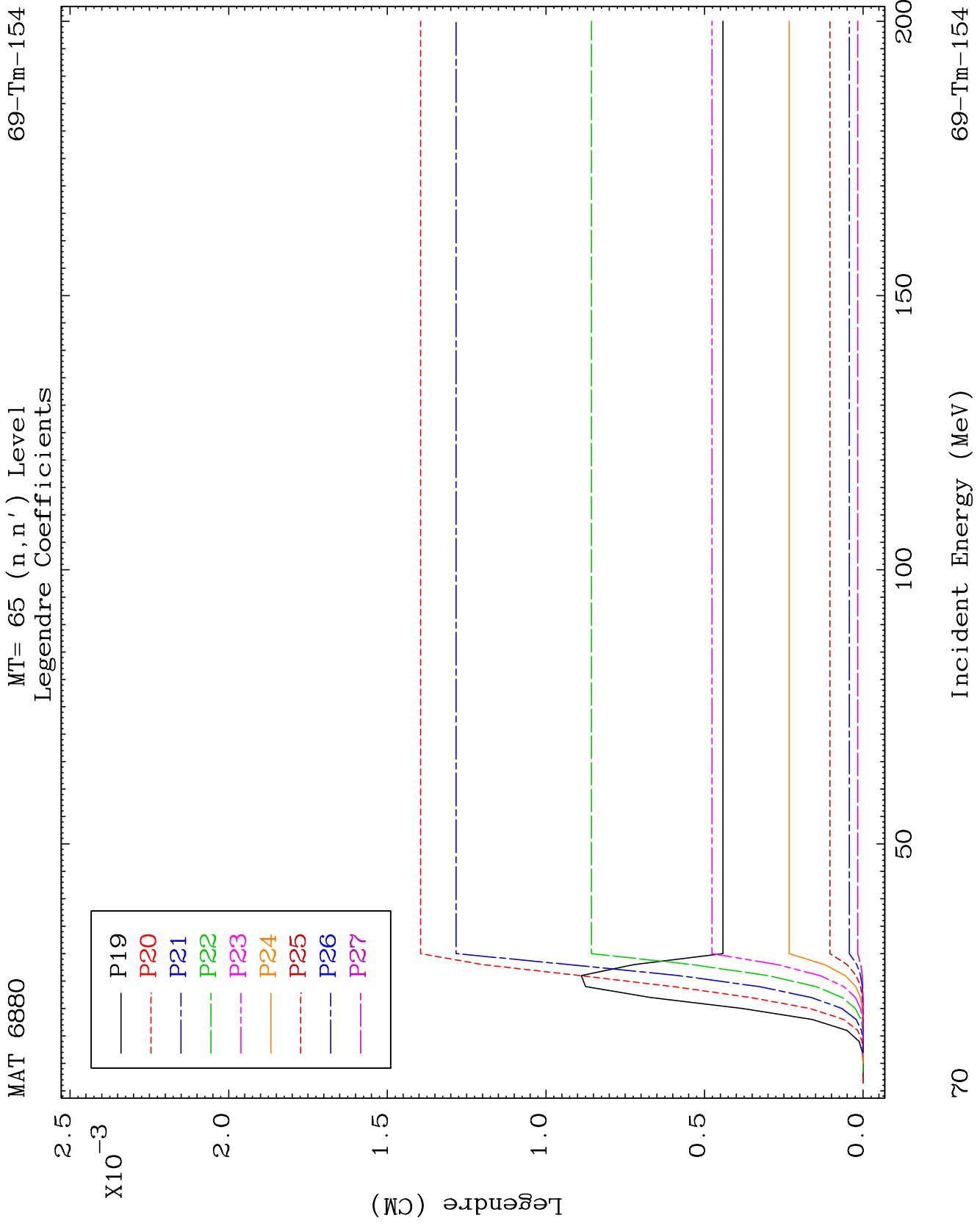
69-Tm-154



68

Incident Energy (MeV)

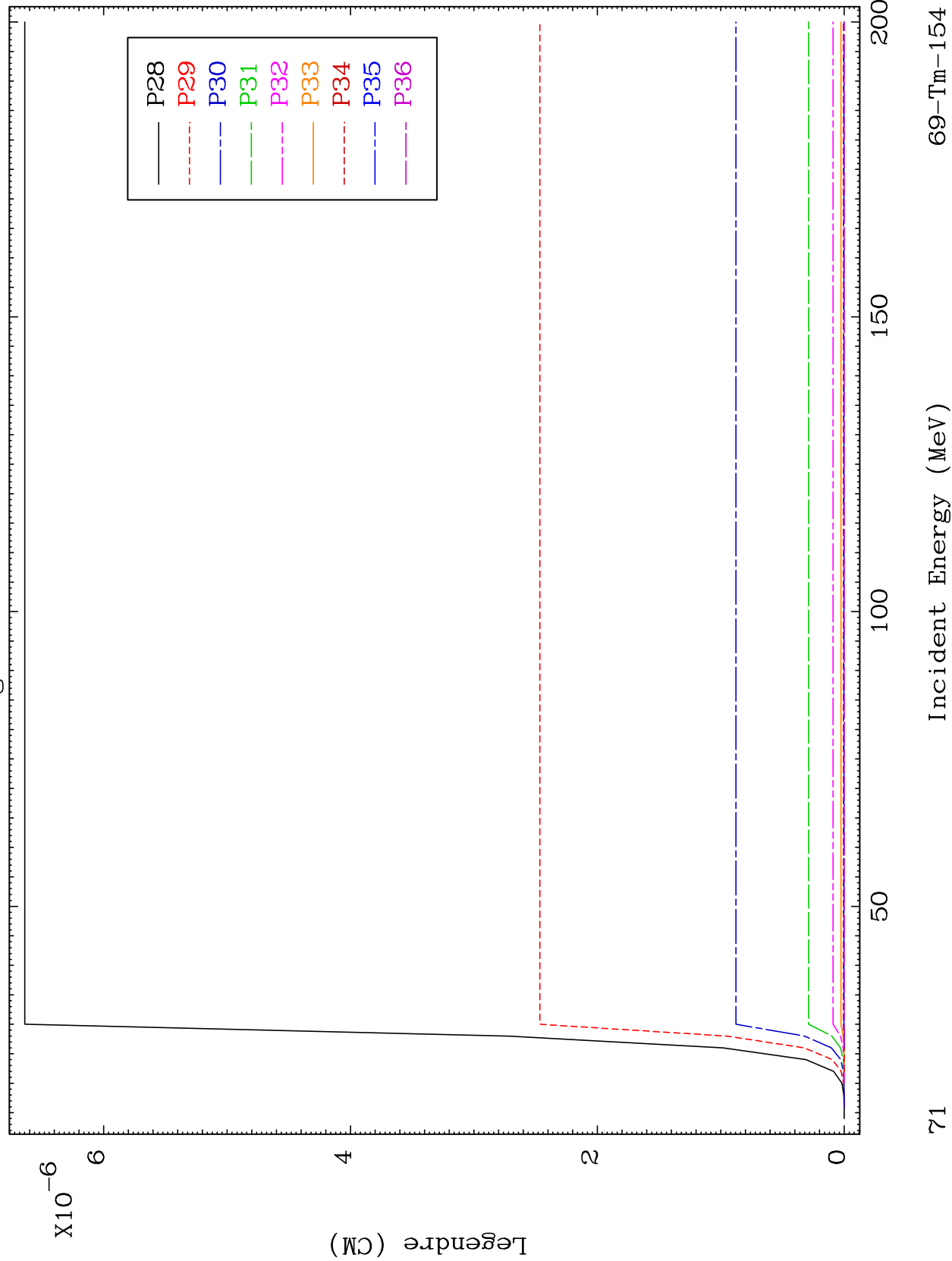
69-Tm-154



MAT 6880

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

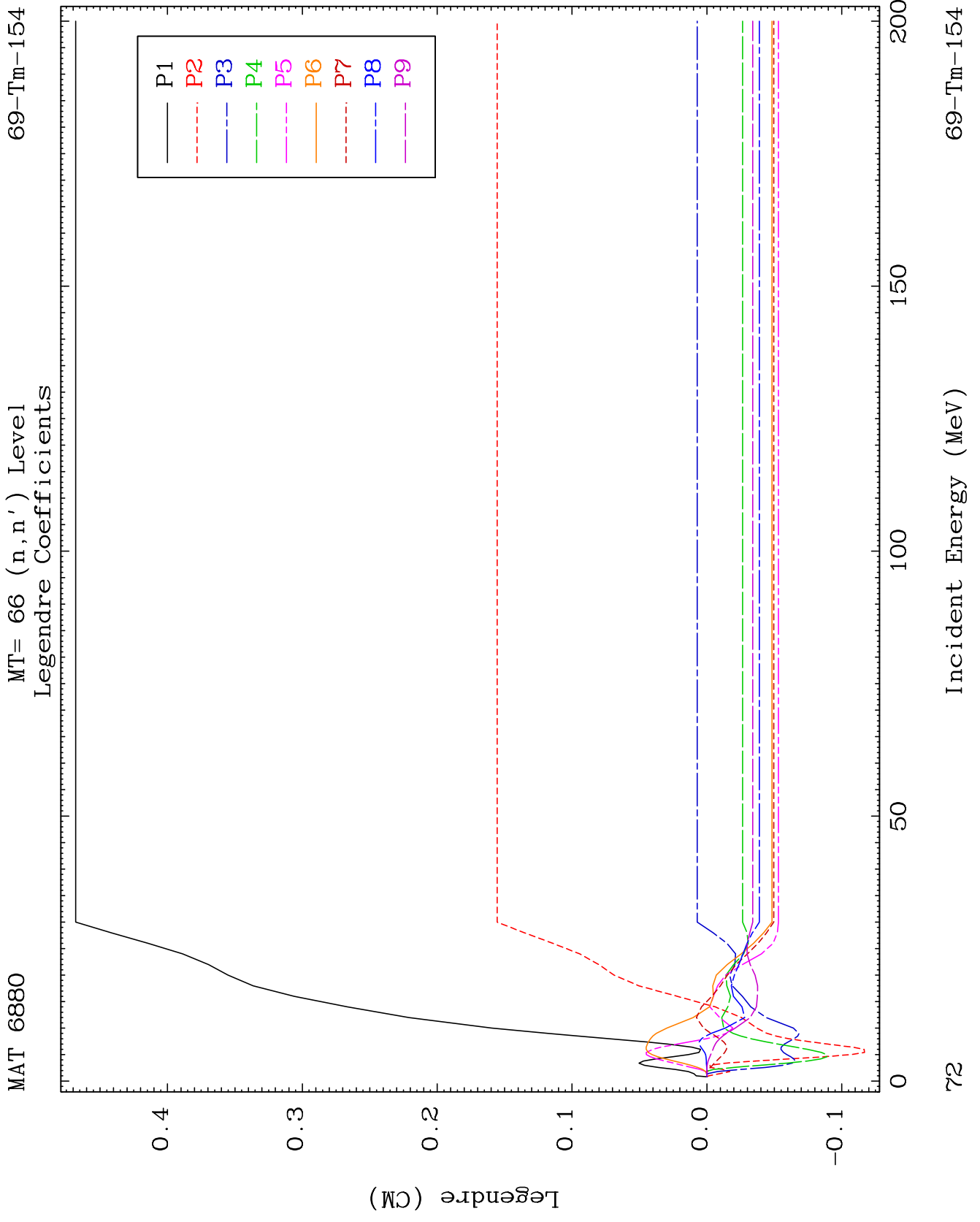
69-Tm-154



71

Incident Energy (MeV)

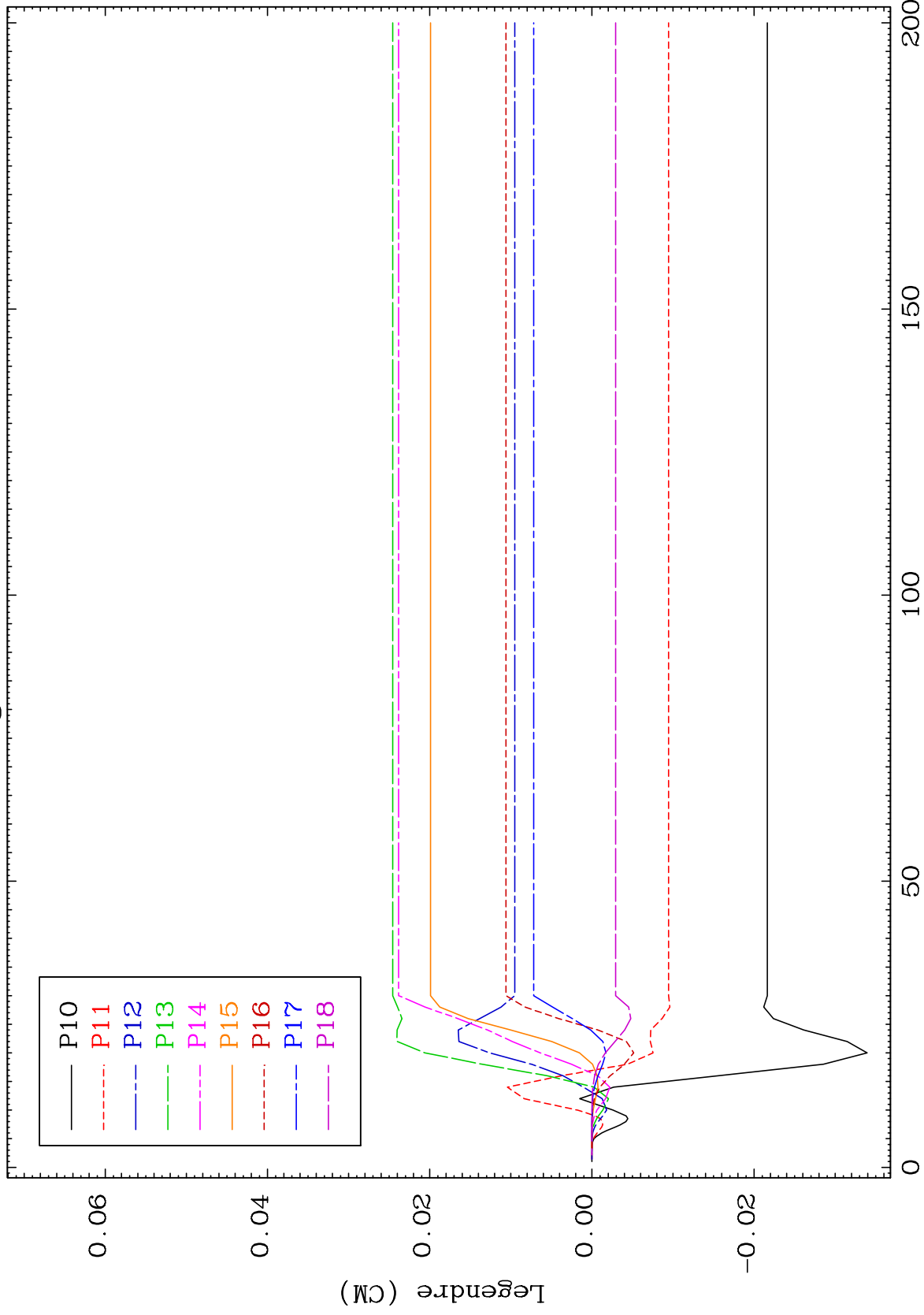
69-Tm-154



MAT 6880

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

69-Tm-154



73

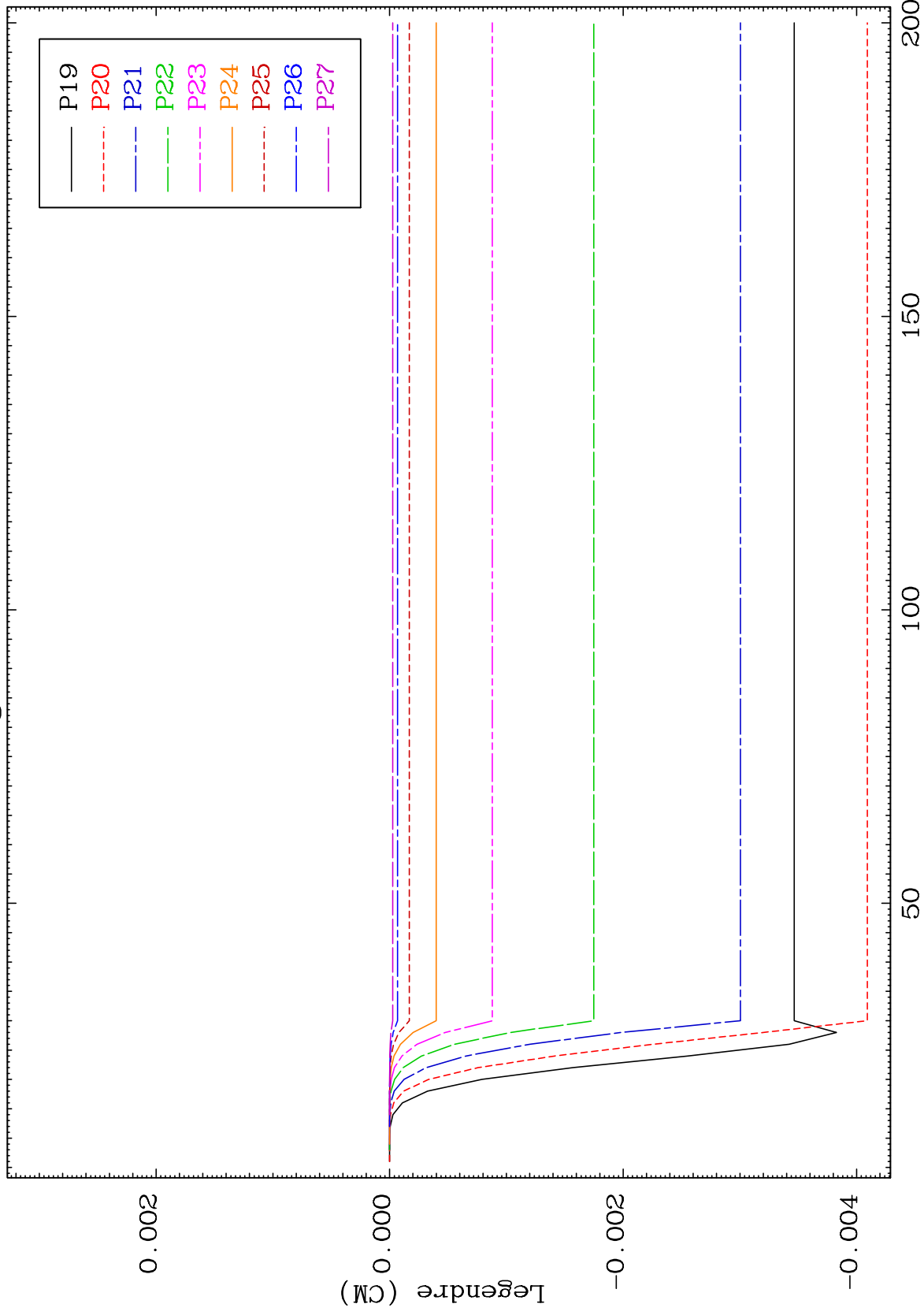
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

69-Tm-154



74

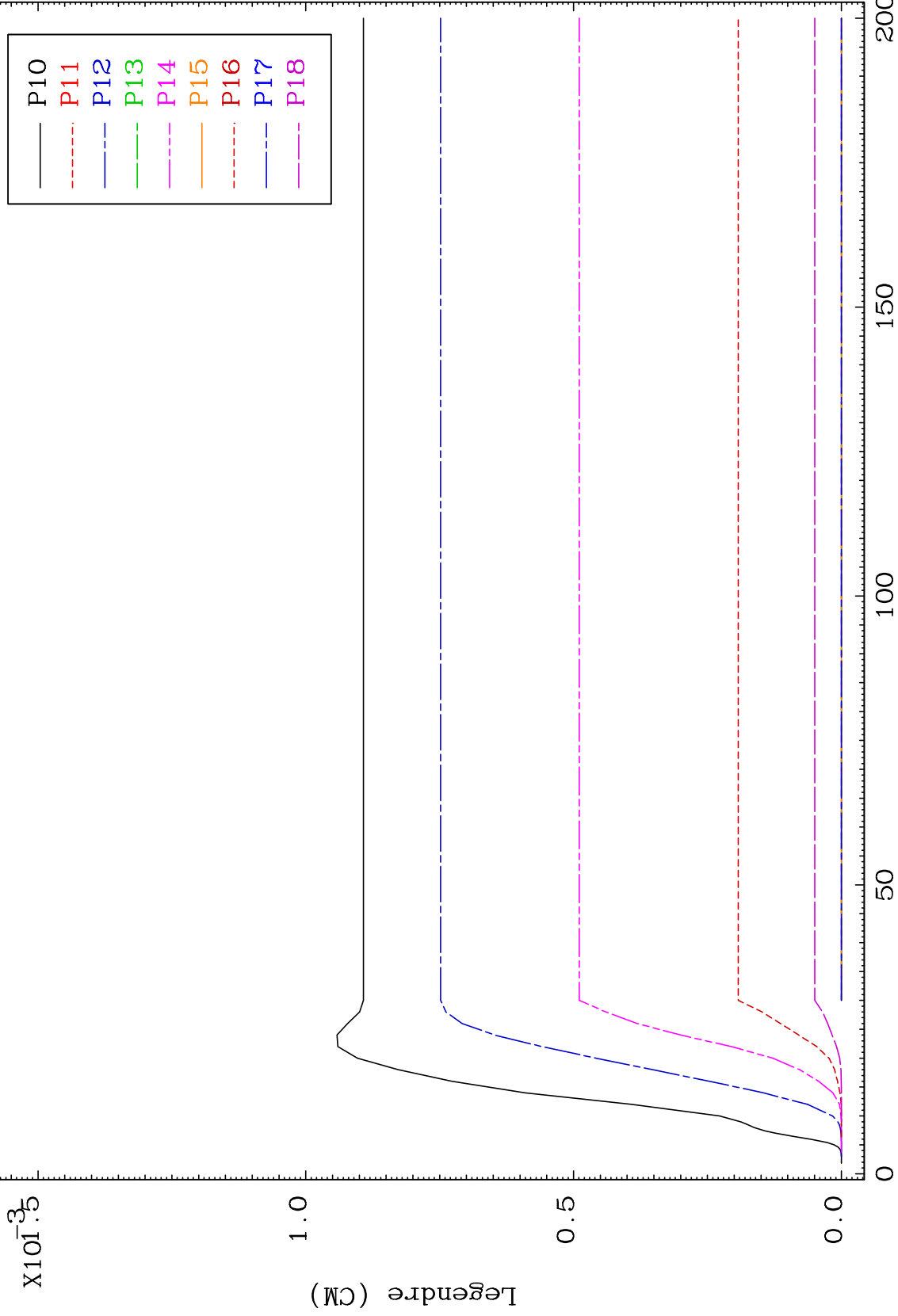
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

69-Tm-154



77

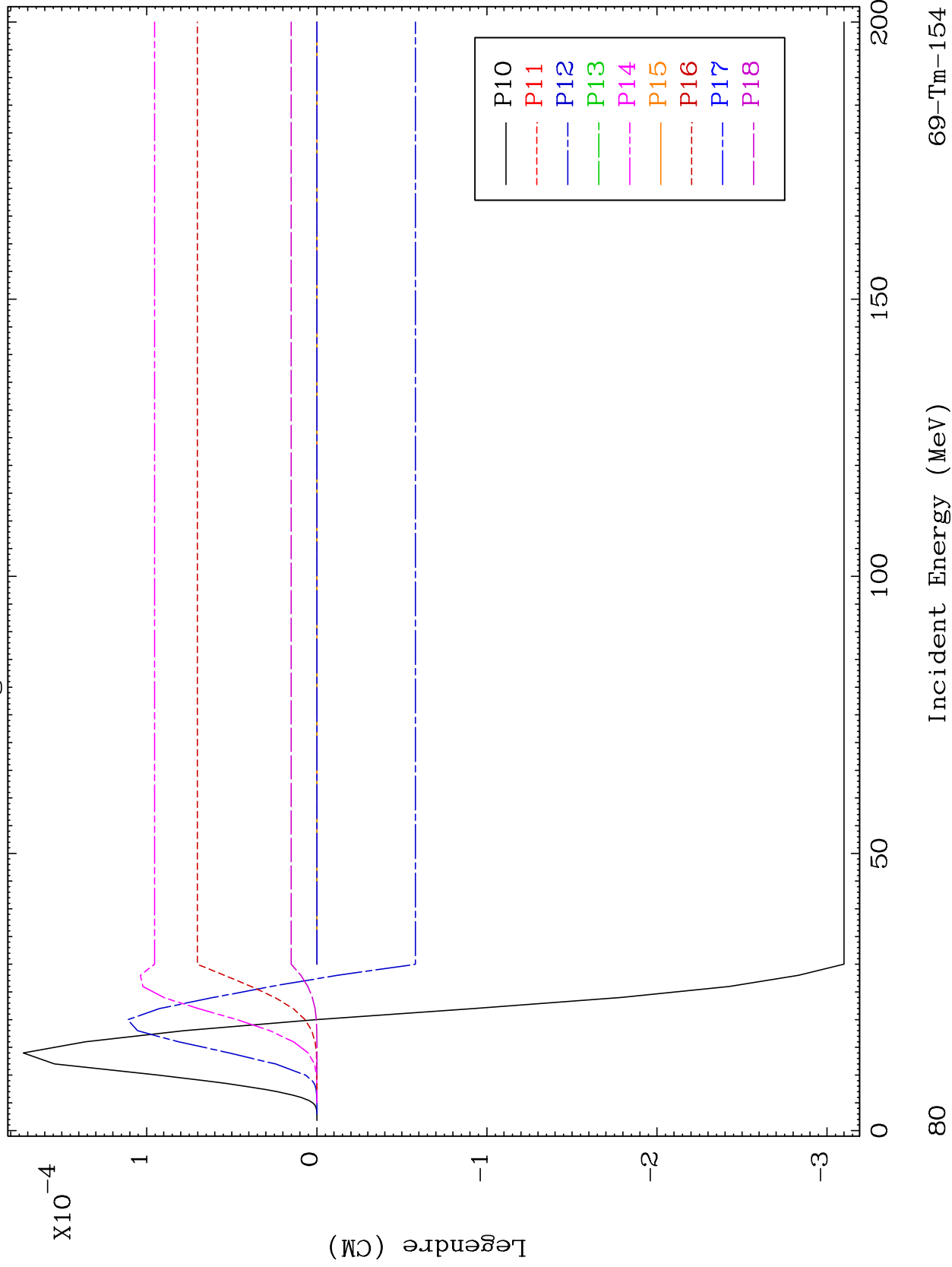
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

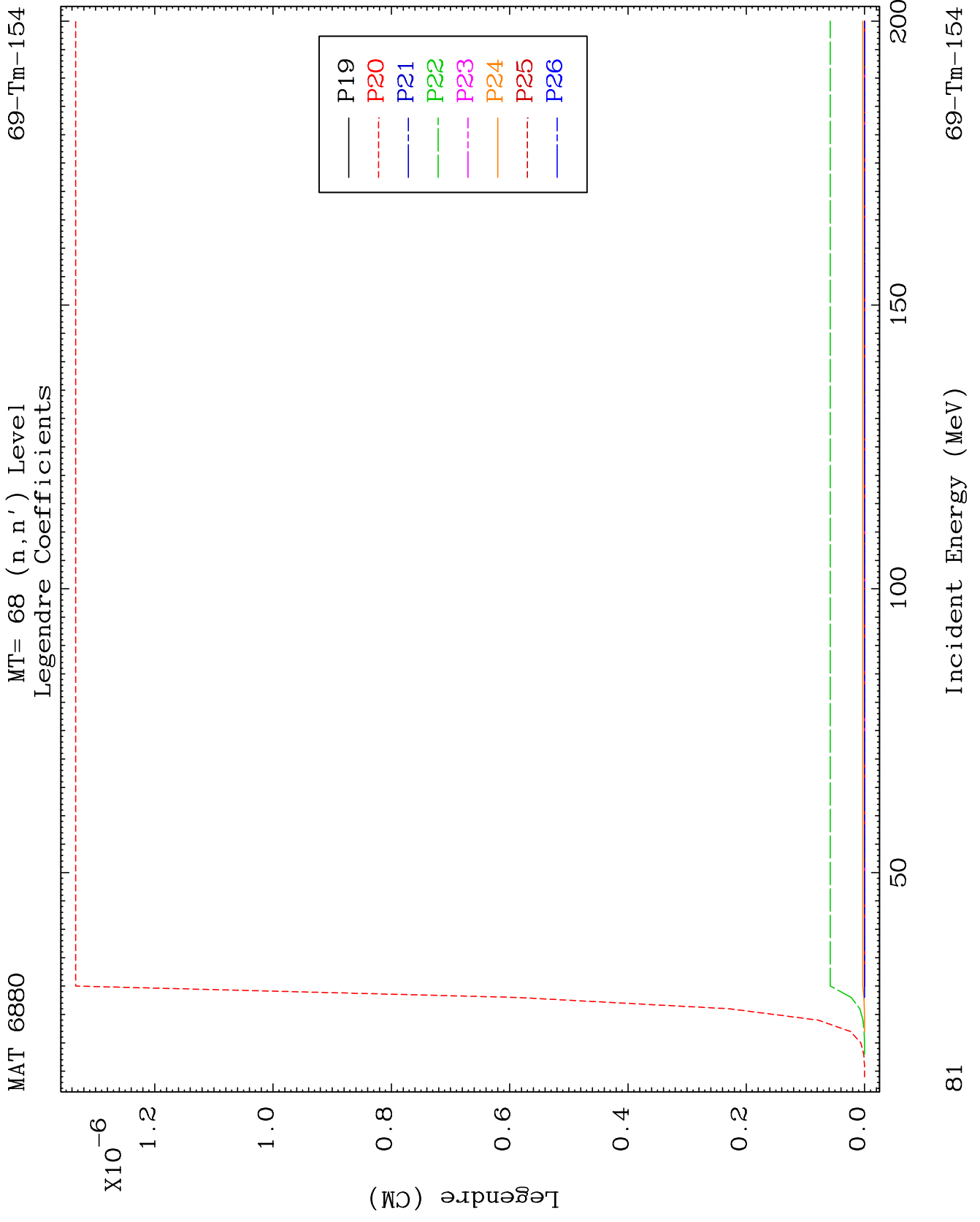
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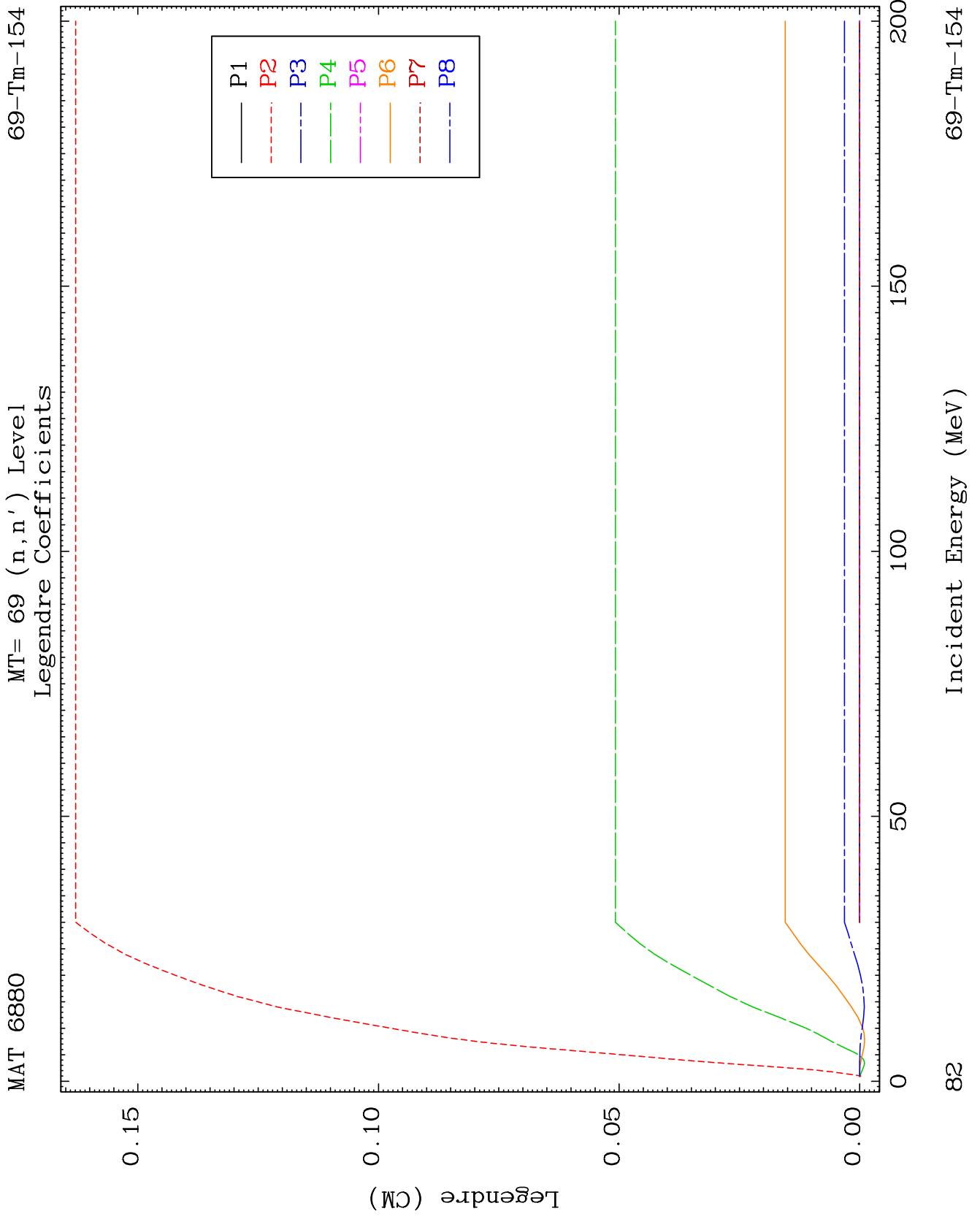


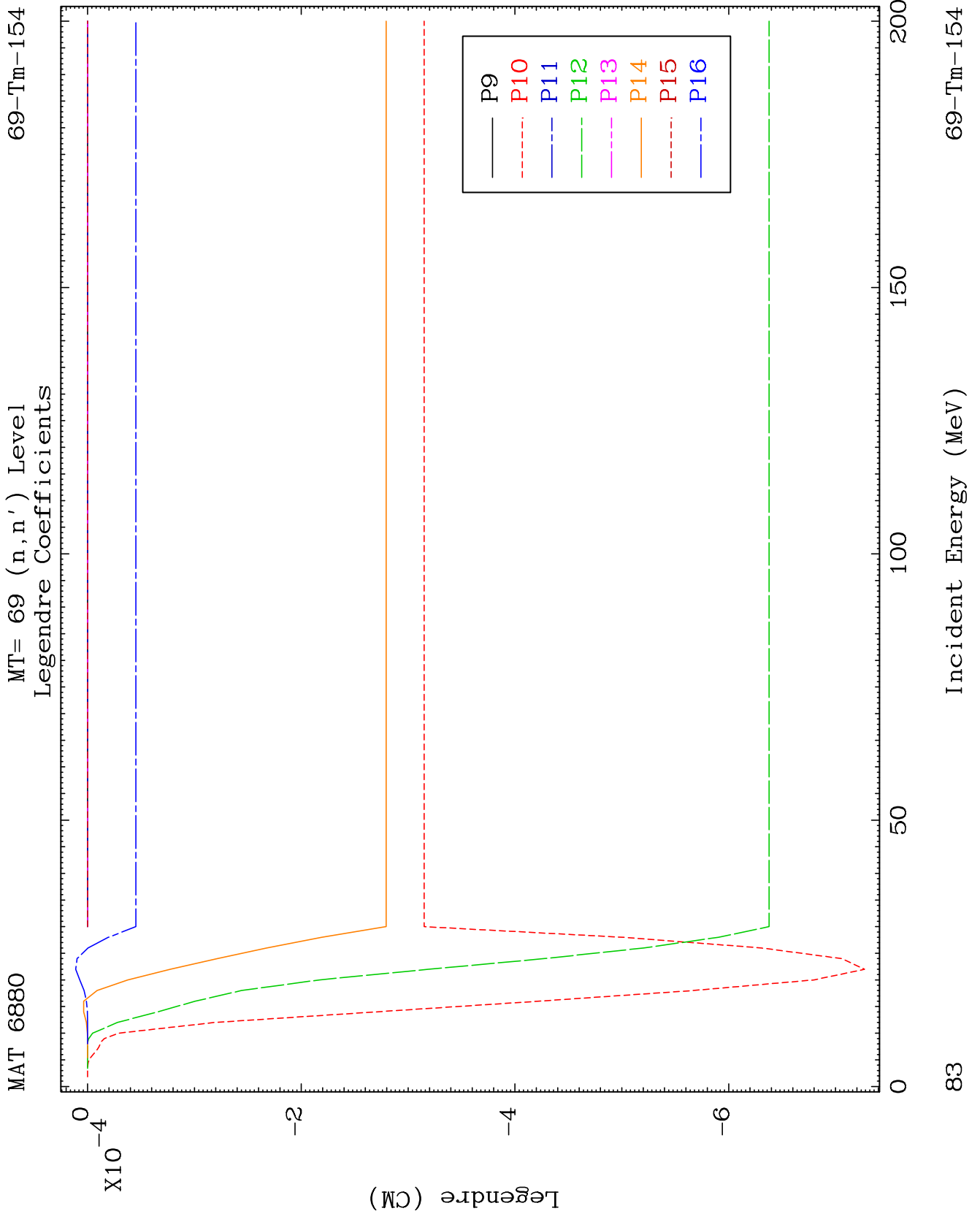
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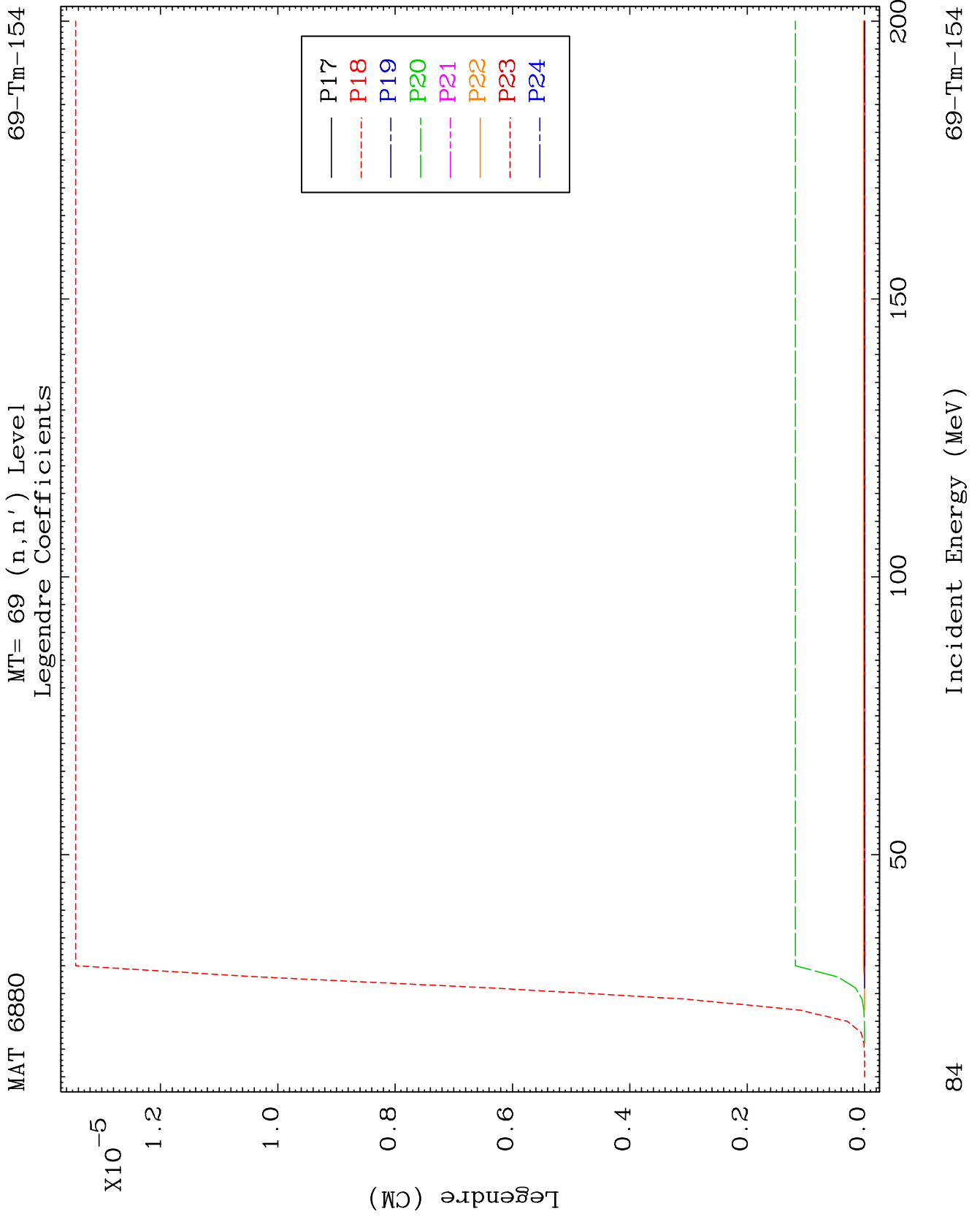
Incident Energy (MeV)

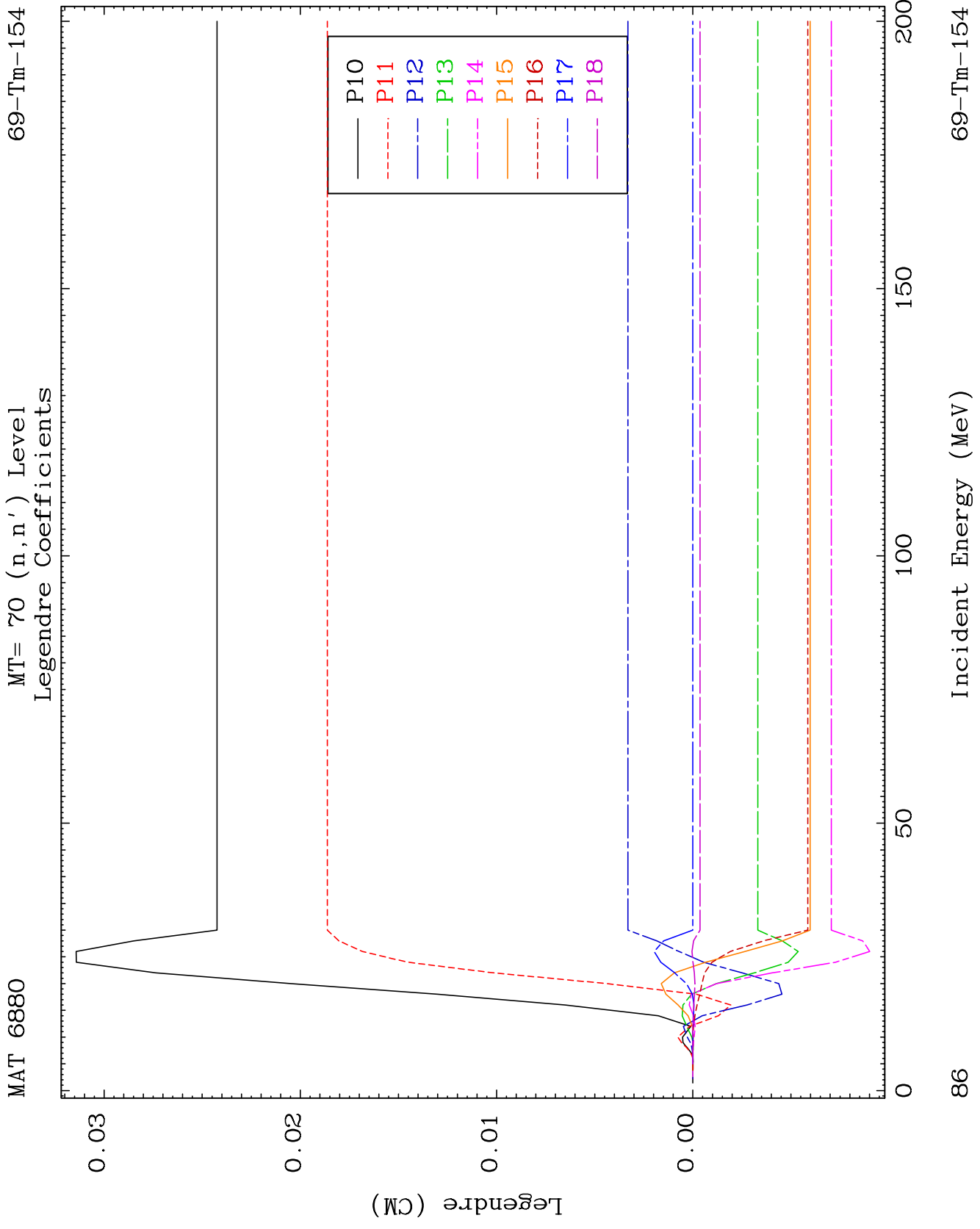
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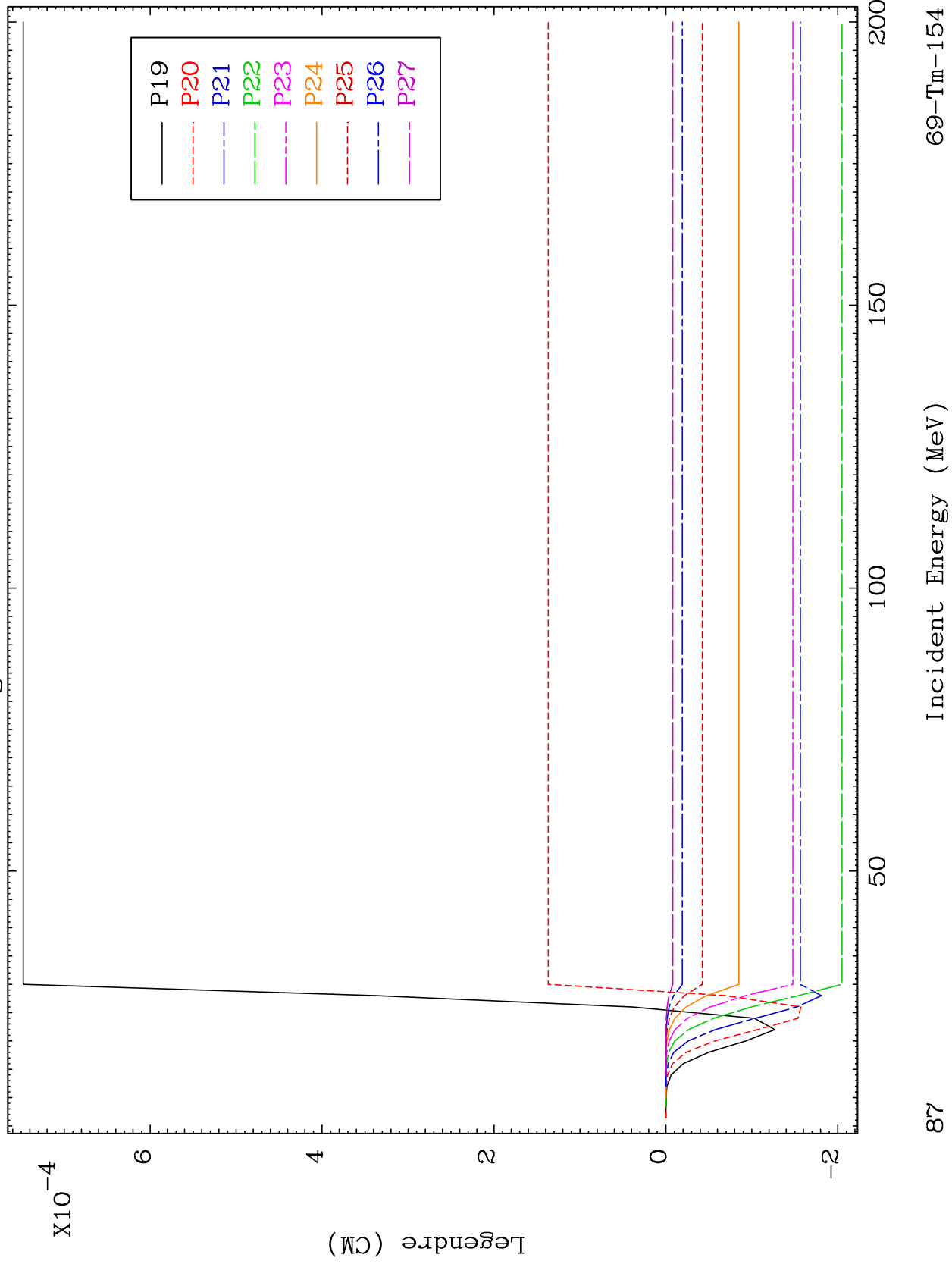


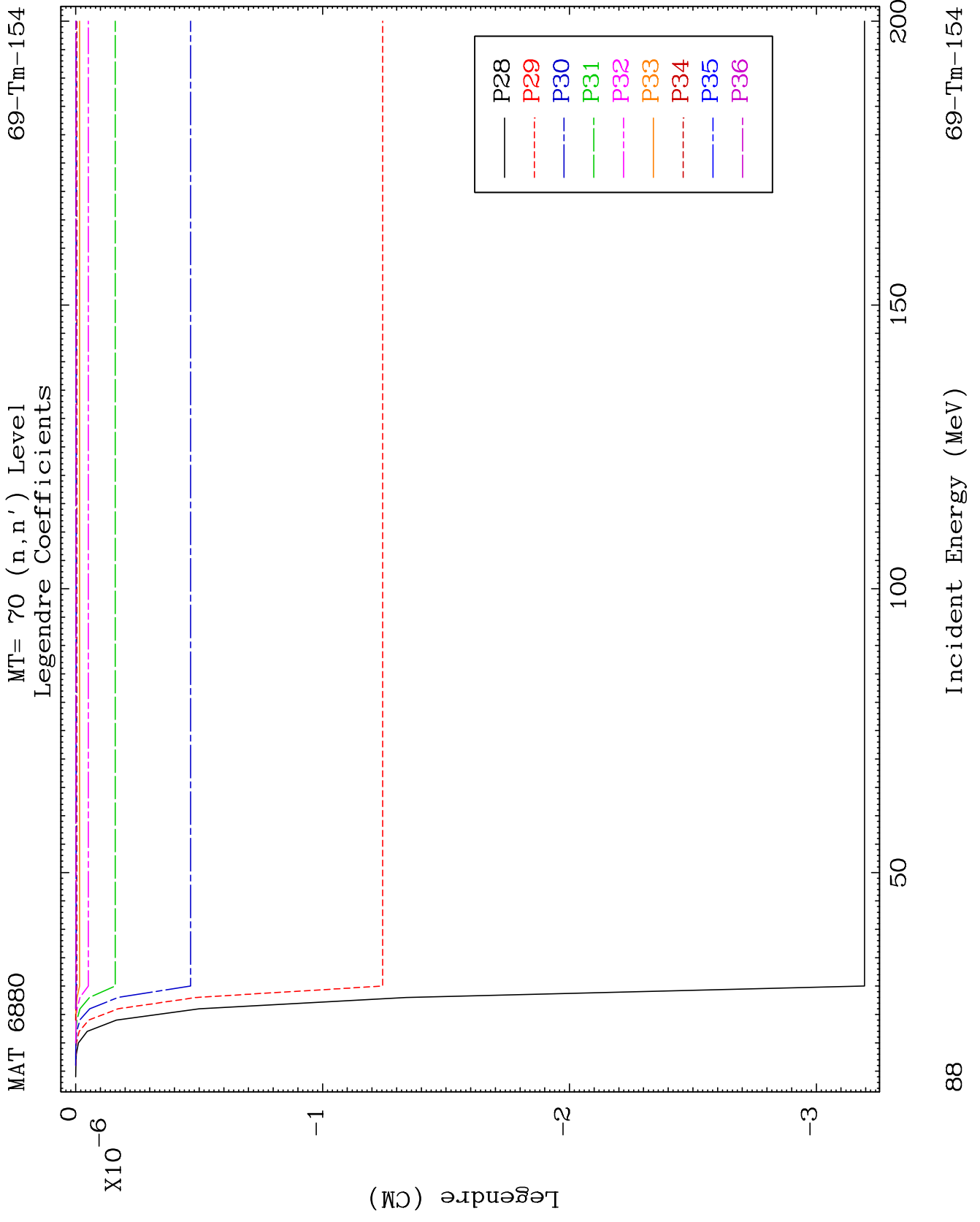


MAT 6880

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

69-Tm-154

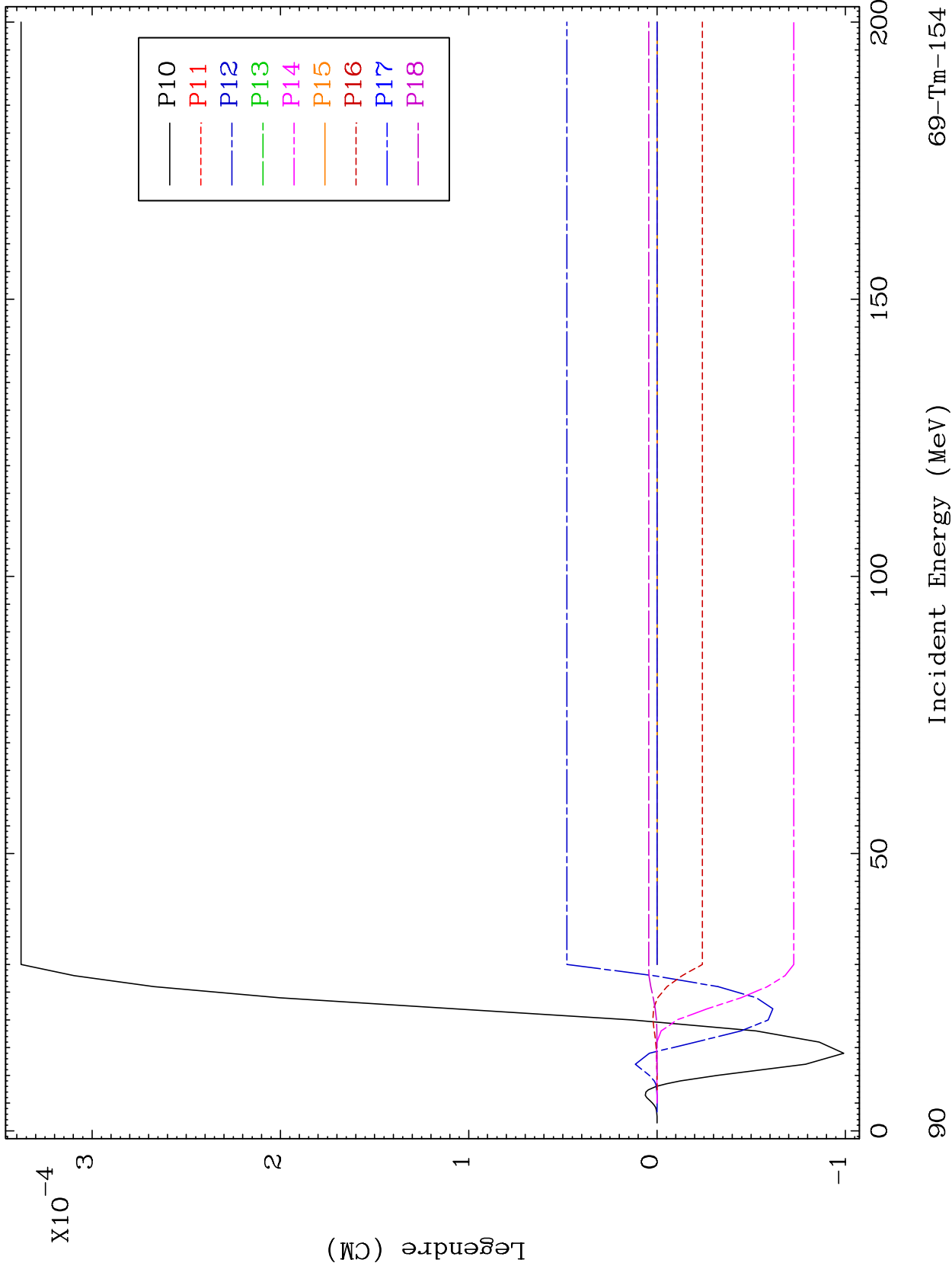




MAT 6880

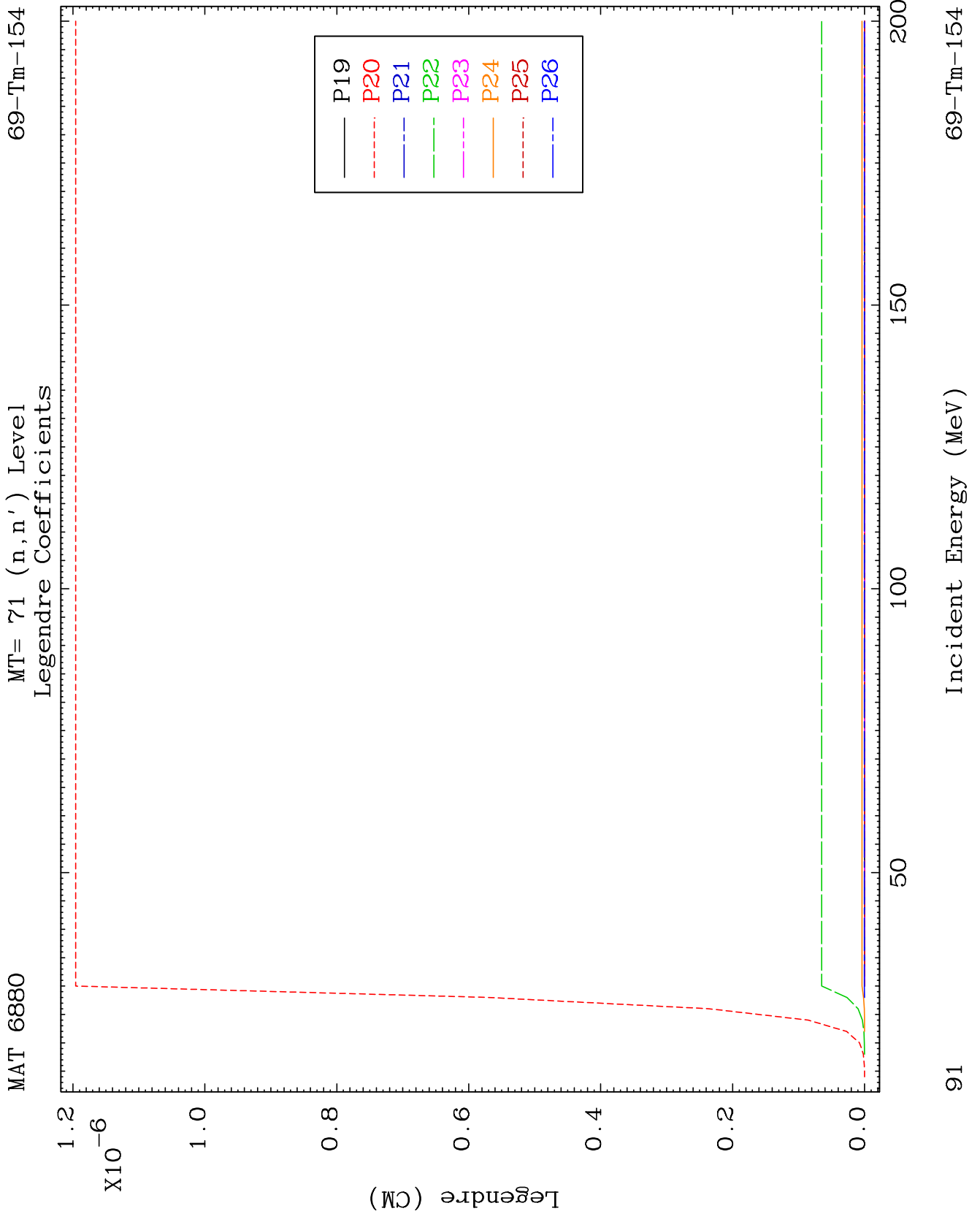
MT= 71 (n,n') Level
Legendre Coefficients

69-Tm-154



69-Tm-154

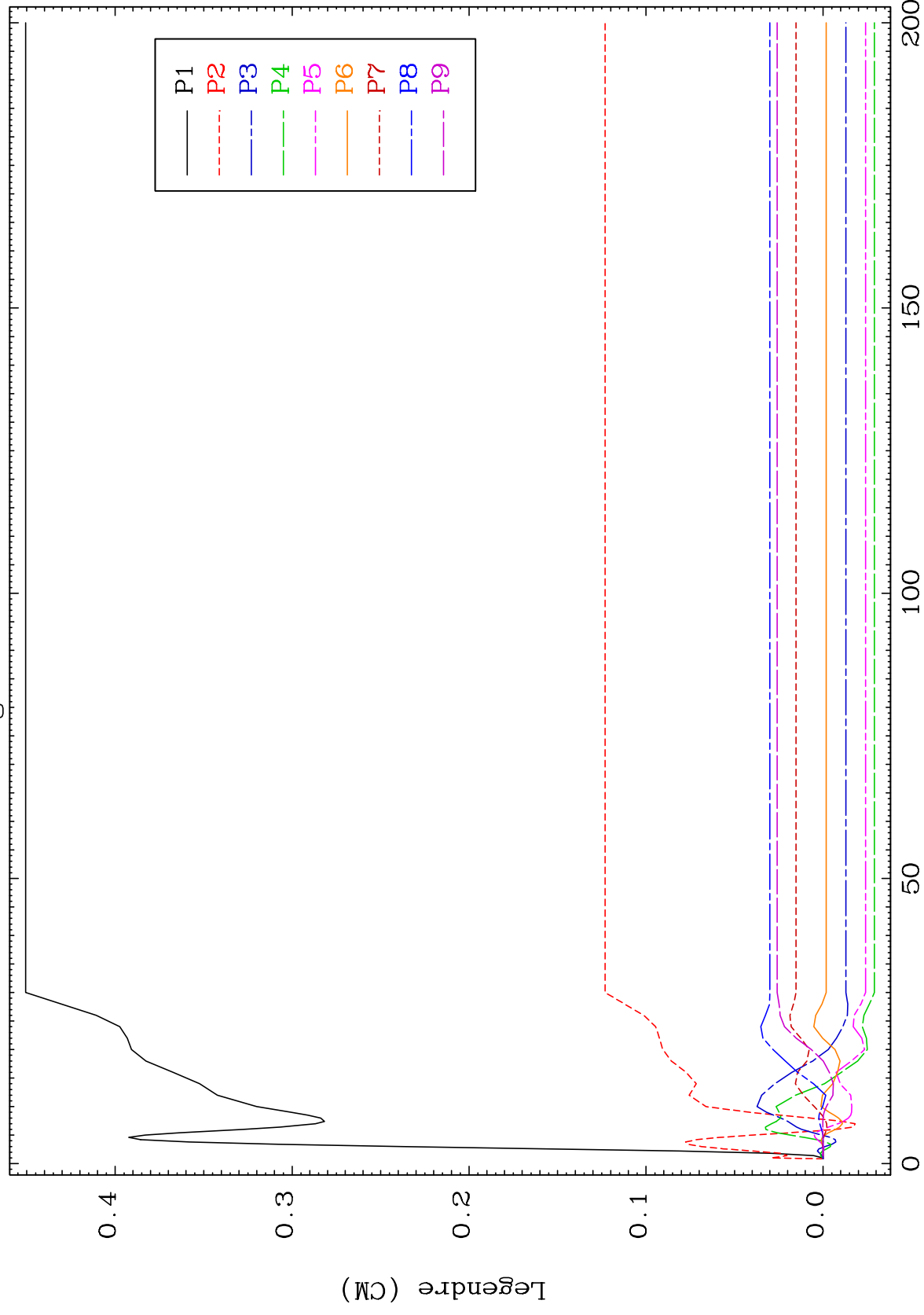
Incident Energy (MeV)



MAT 6880

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

69-Tm-154



92

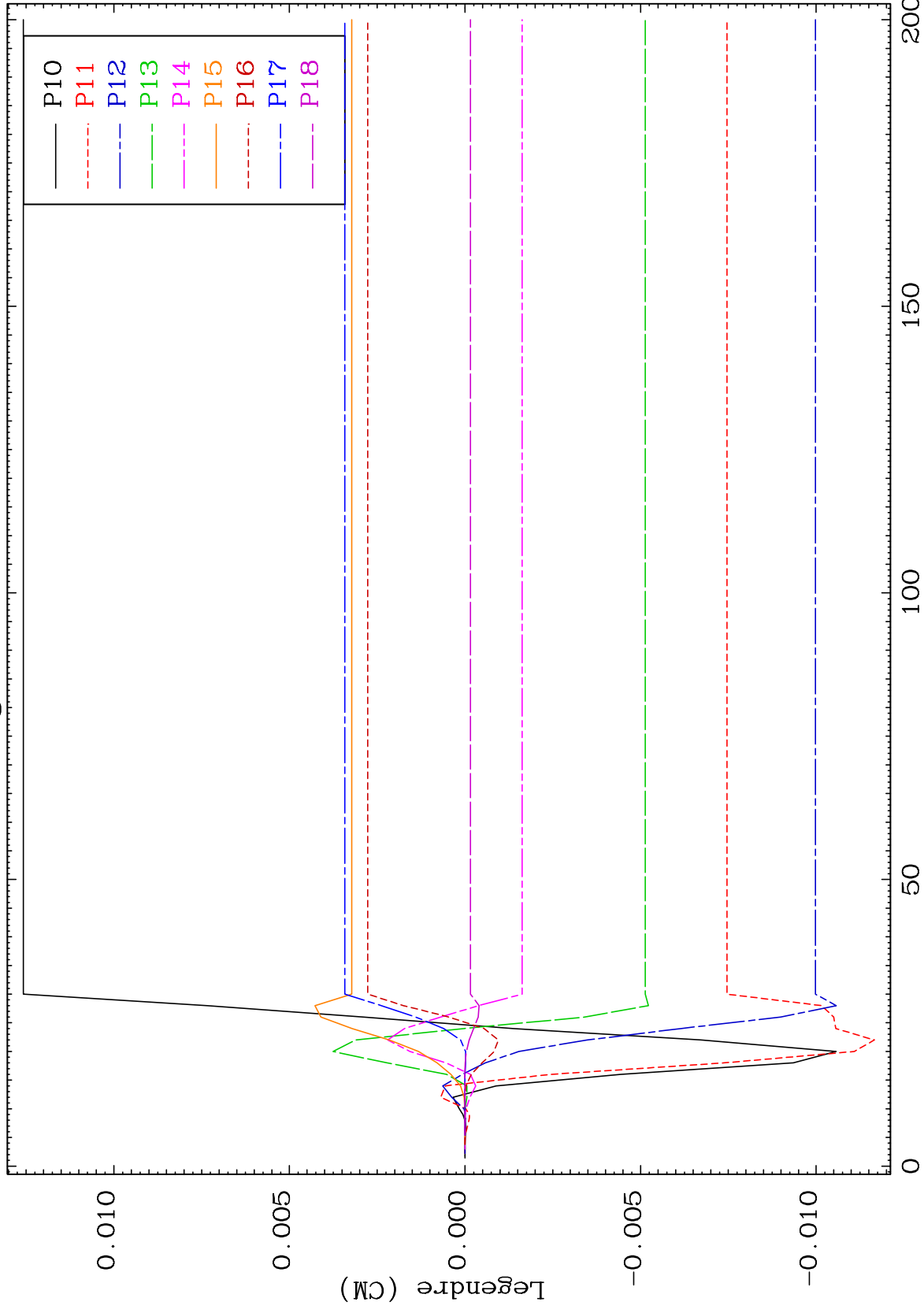
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

69-Tm-154



93

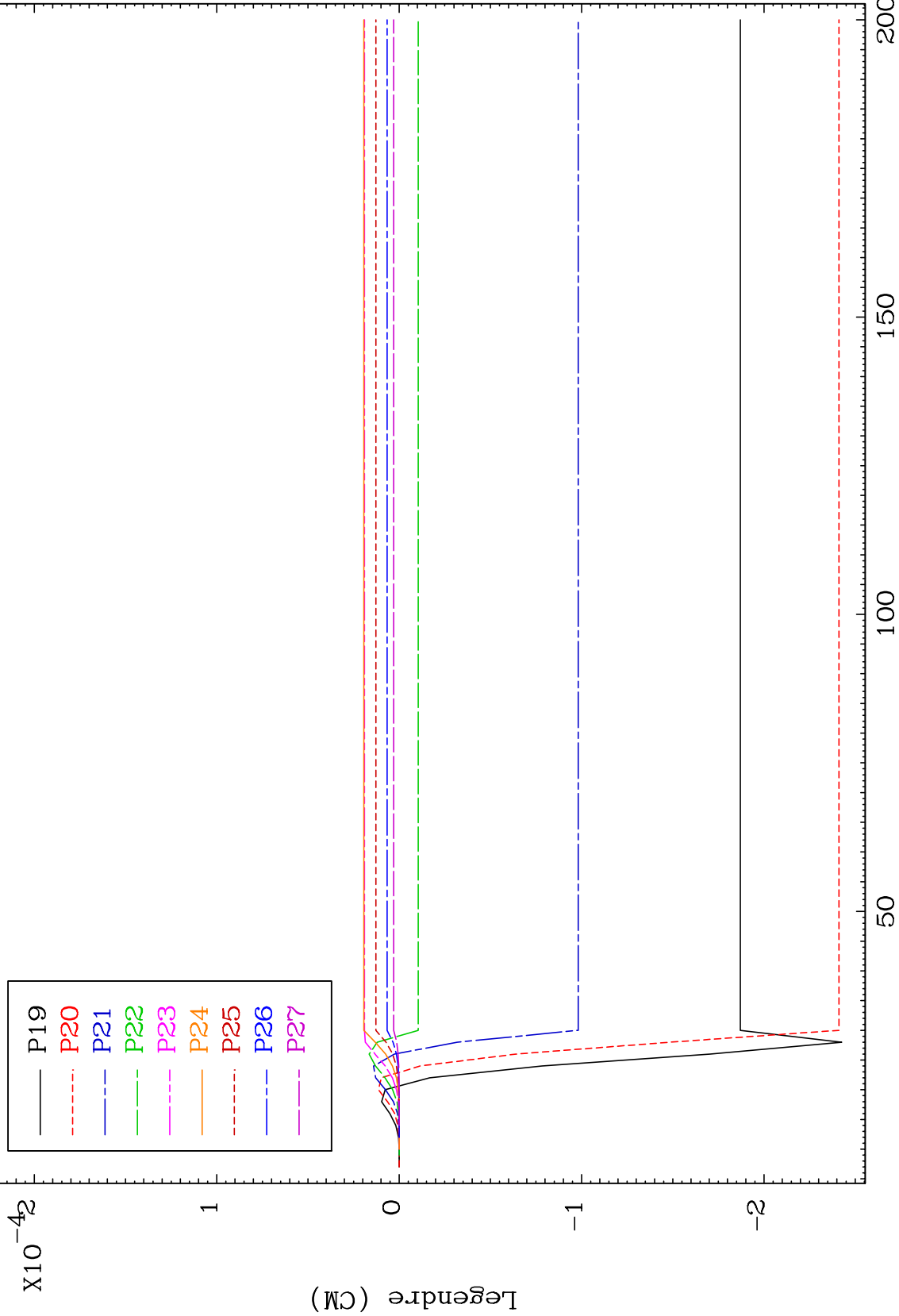
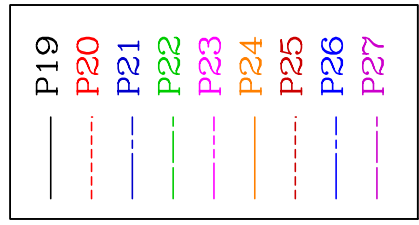
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

69-Tm-154



94

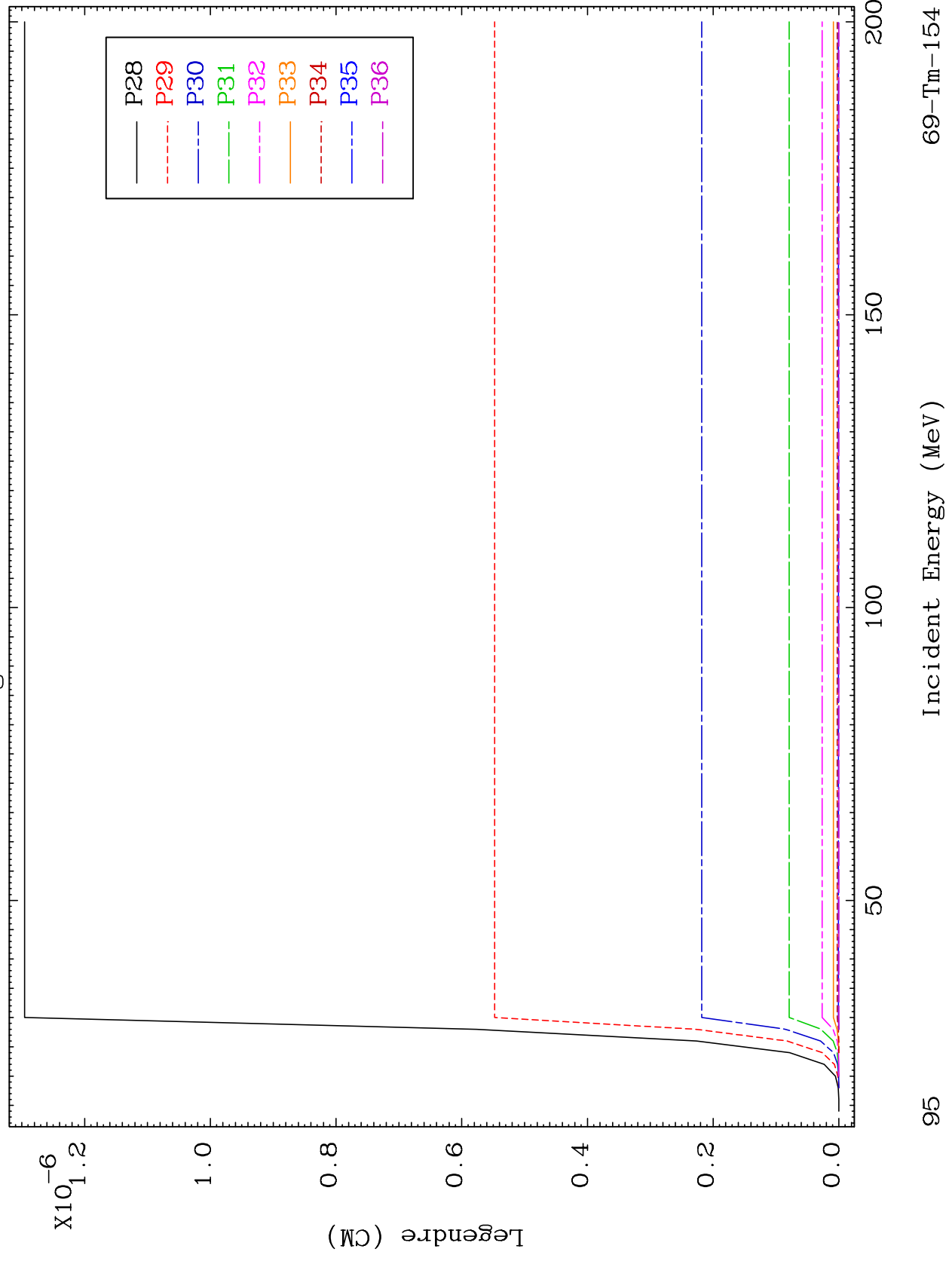
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

69-Tm-154



69-Tm-154

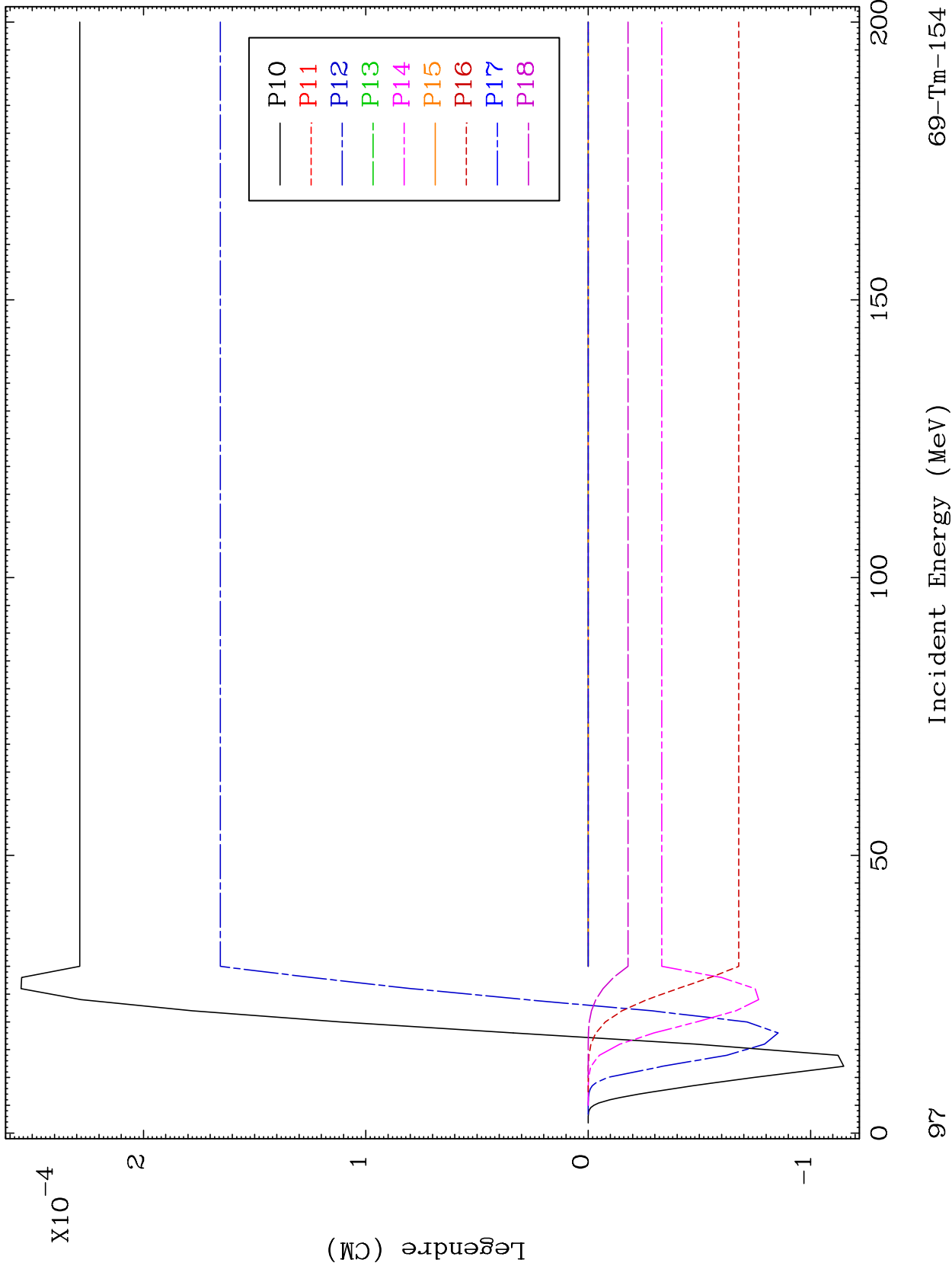
Incident Energy (MeV)

95

MAT 6880

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

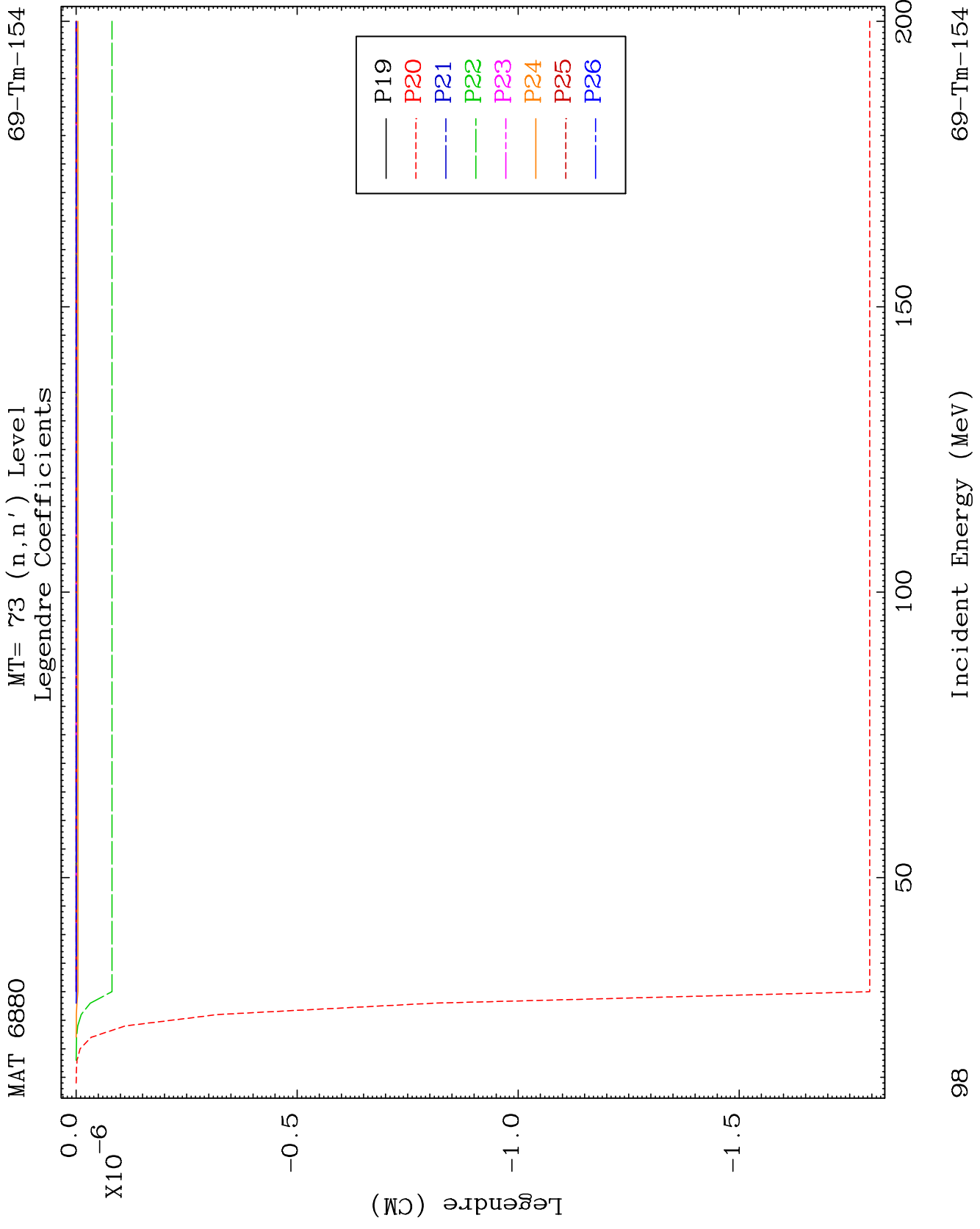
69-Tm-154



97

Incident Energy (MeV)

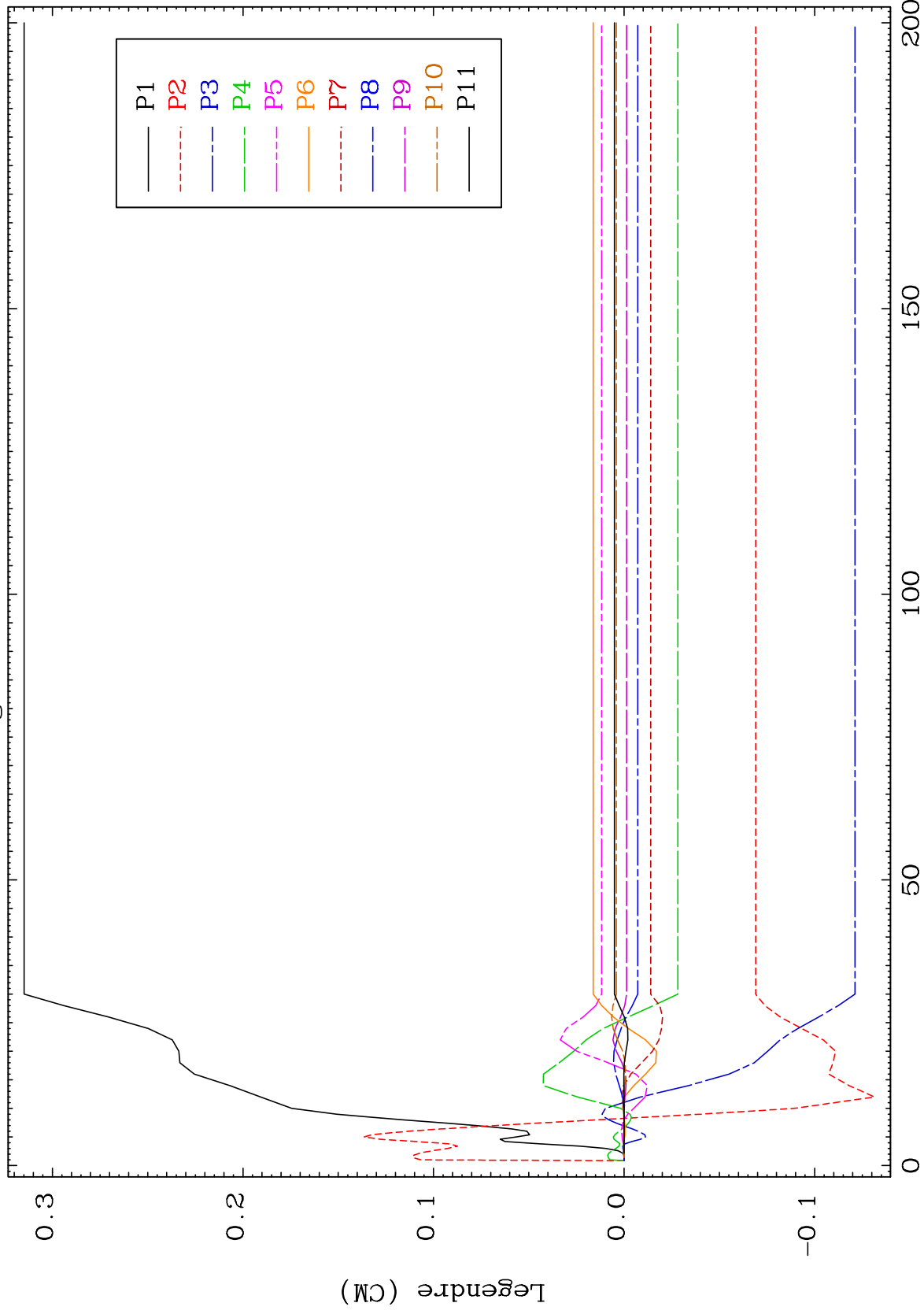
69-Tm-154



MAT 6880

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

69-Tm-154



99

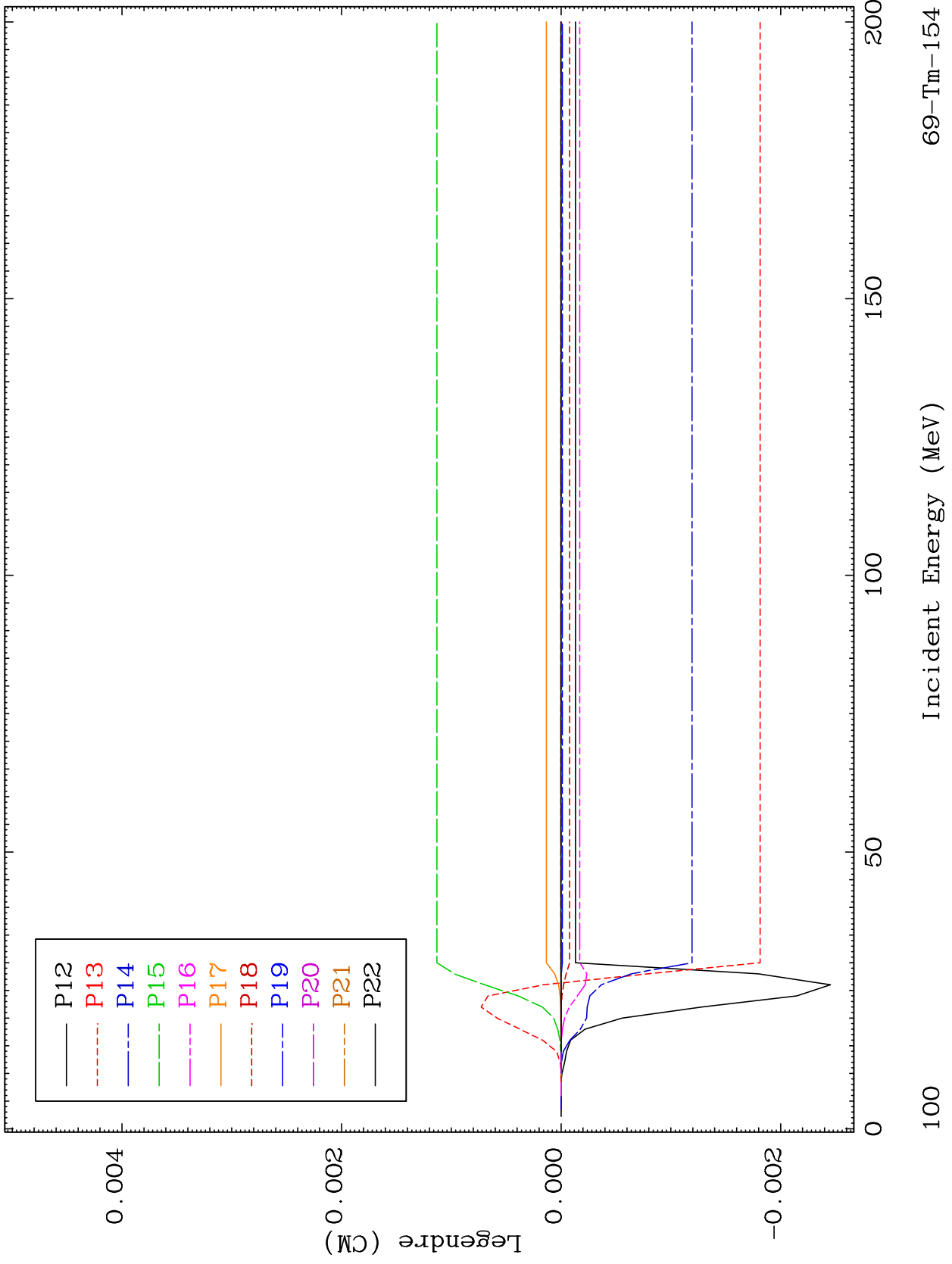
Incident Energy (MeV)

69-Tm-154

MAT 6880

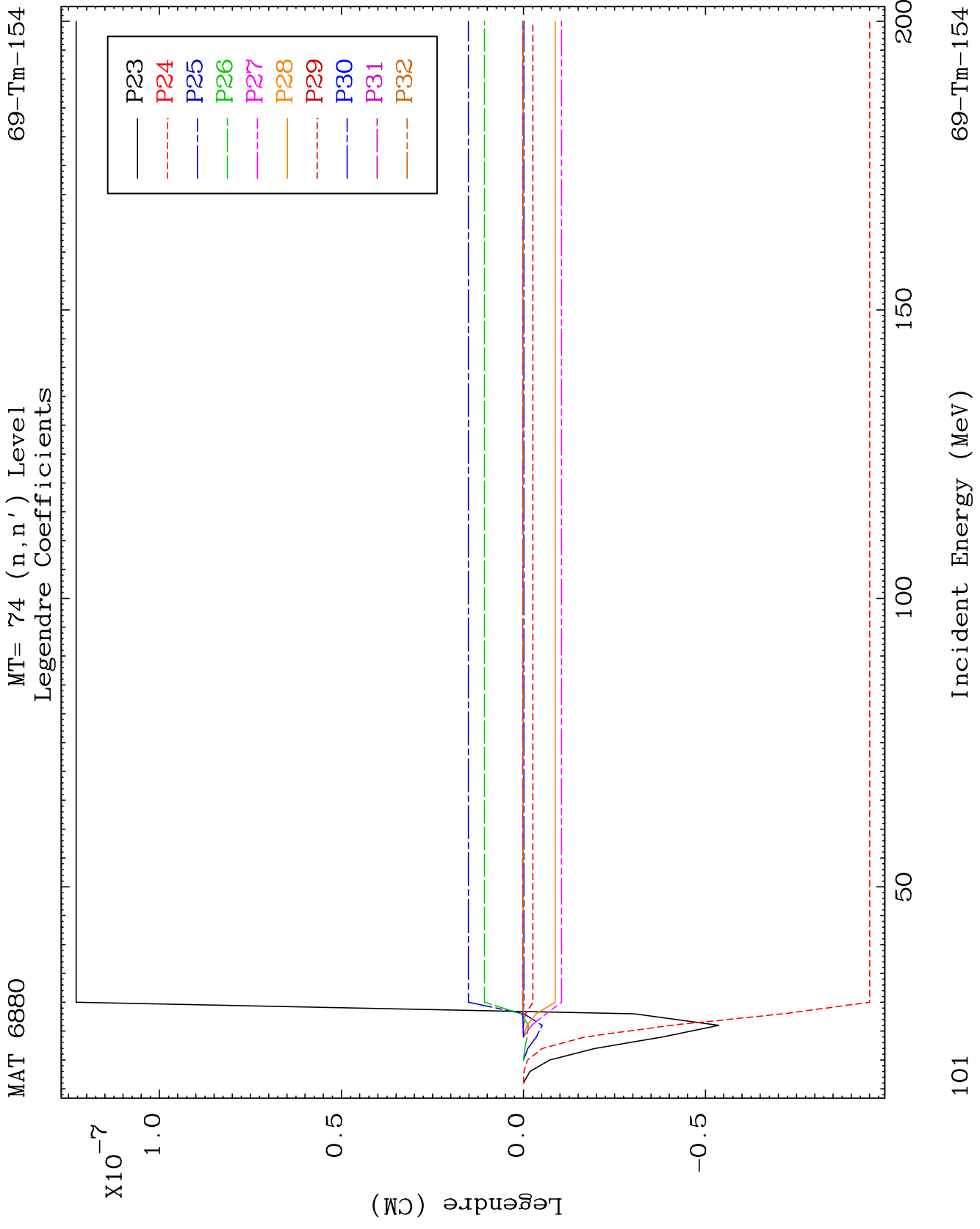
MT= 74 (n,n') Level
Legendre Coefficients

69-Tm-154



69-Tm-154

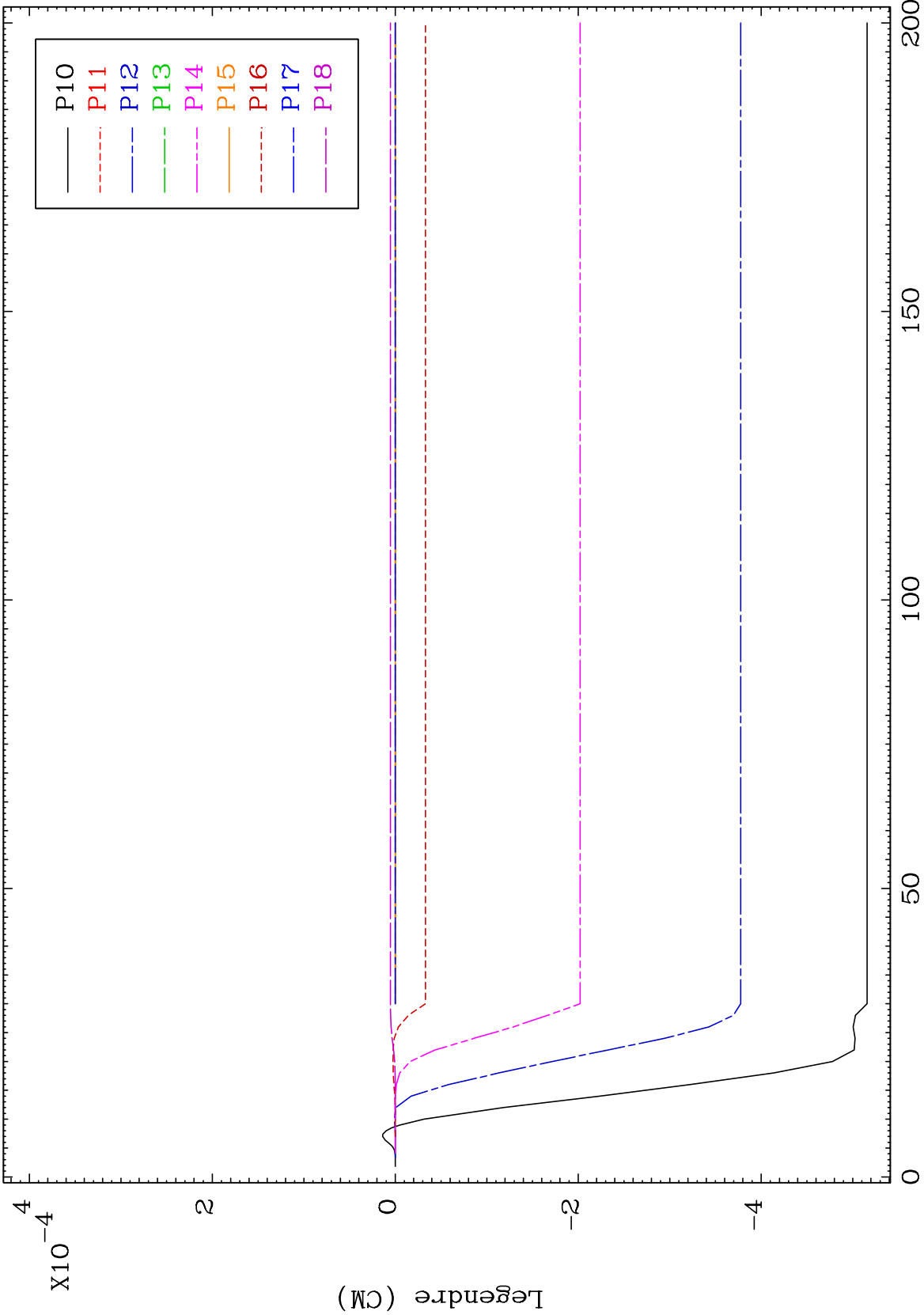
Incident Energy (MeV)



MAT 6880

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

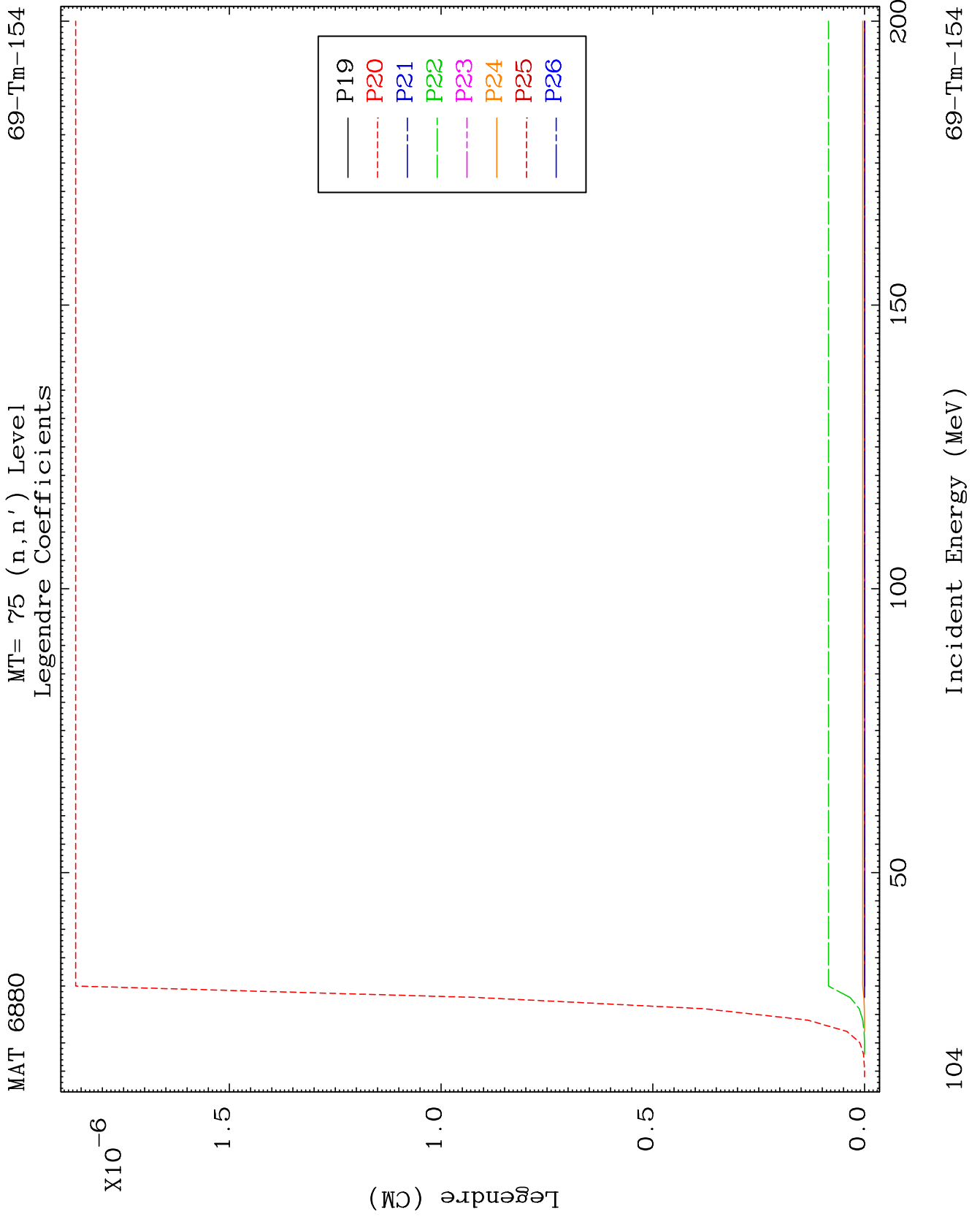
69-Tm-154



103

Incident Energy (MeV)

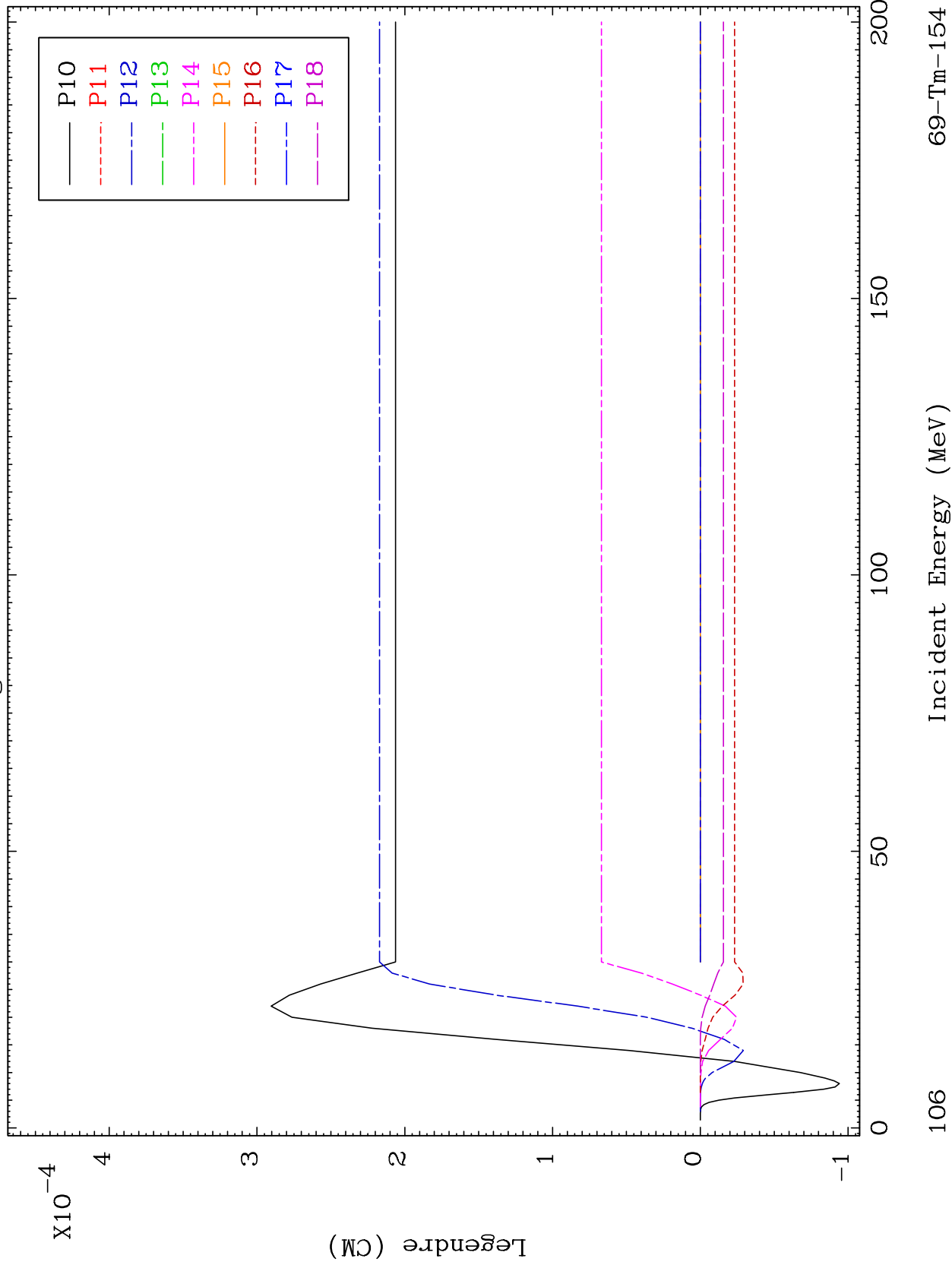
69-Tm-154

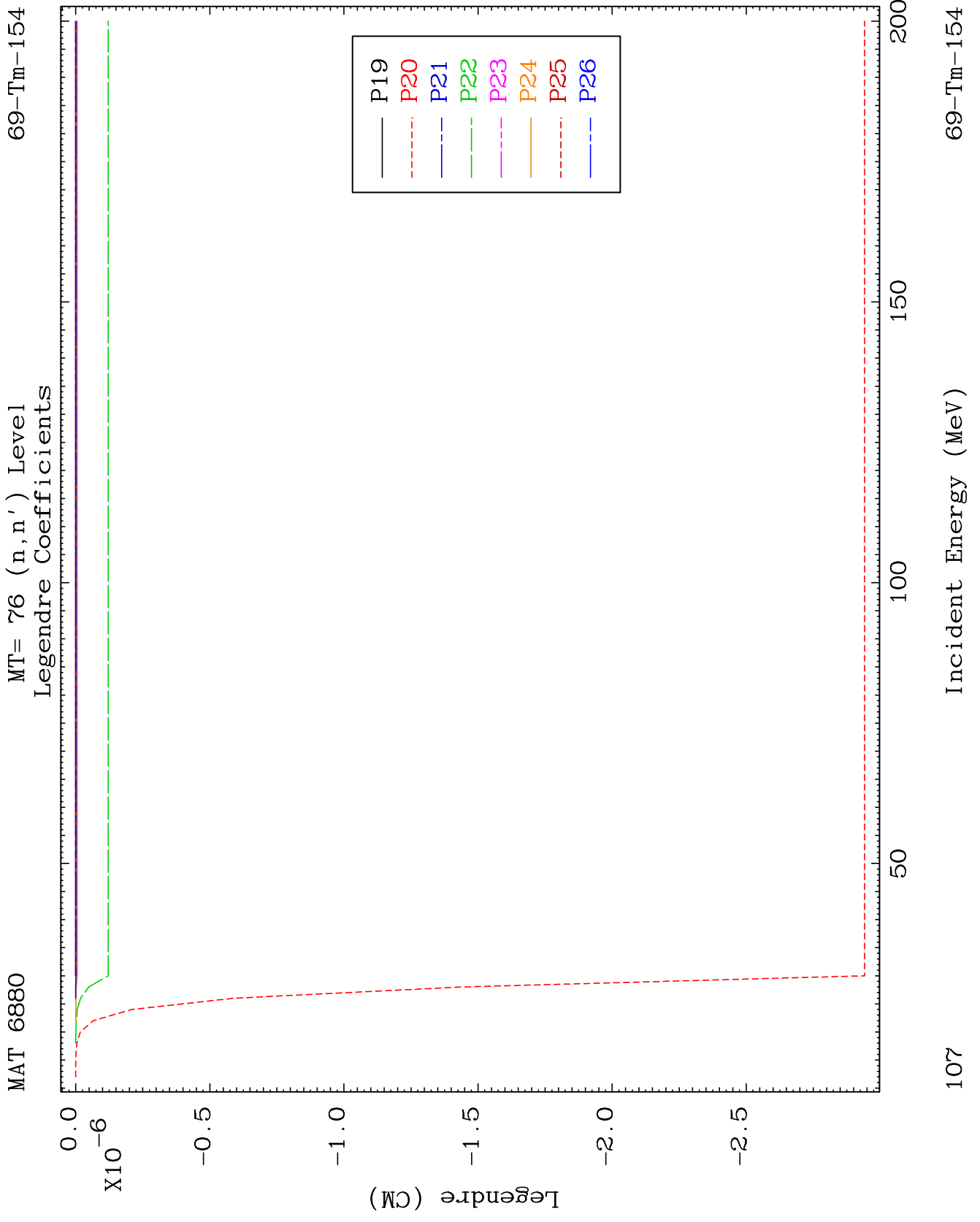


MAT 6880

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

69-Tm-154

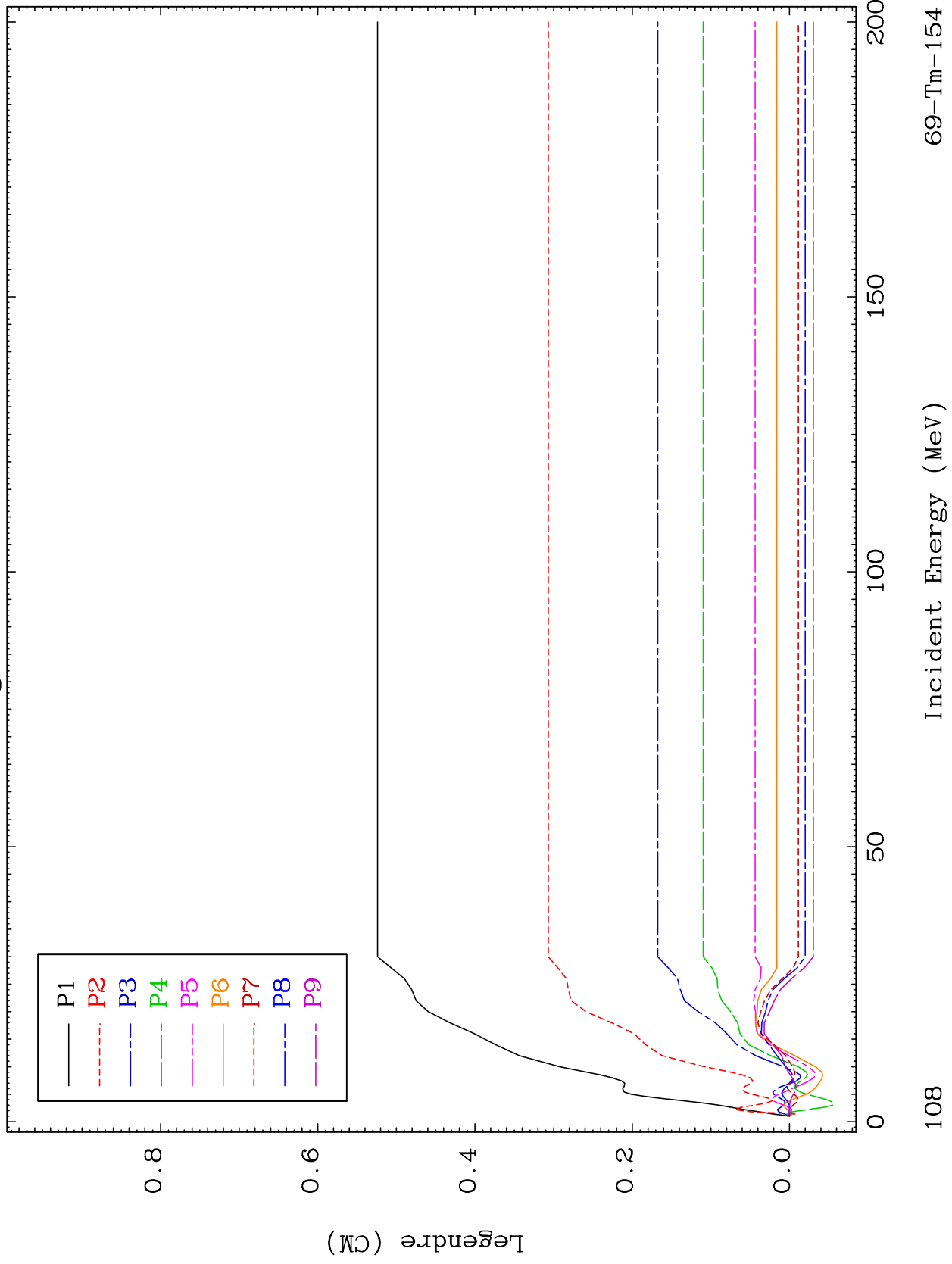




MAT 6880

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

69-Tm-154



69-Tm-154

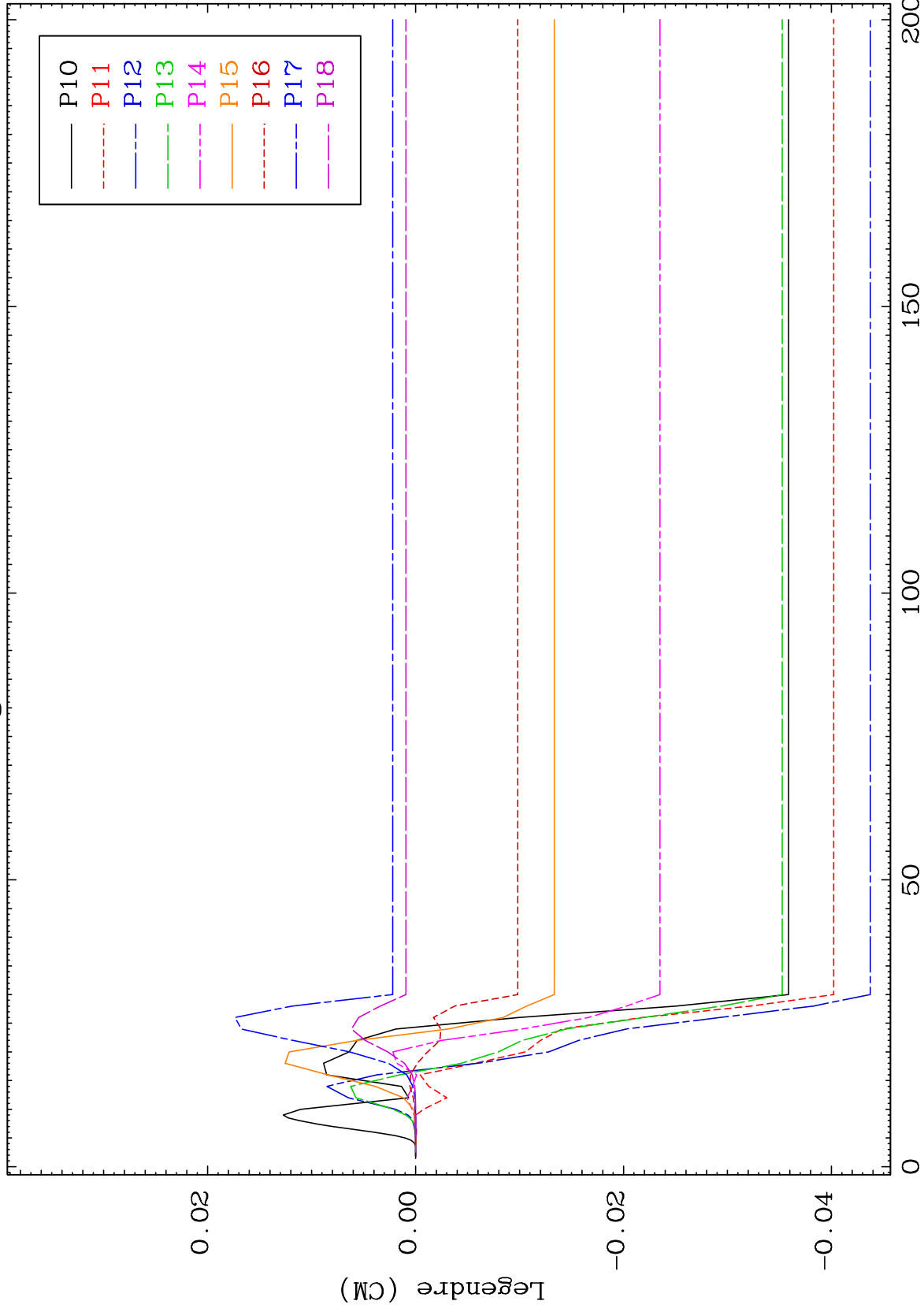
Incident Energy (MeV)

108

MAT 6880

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

69-Tm-154



109

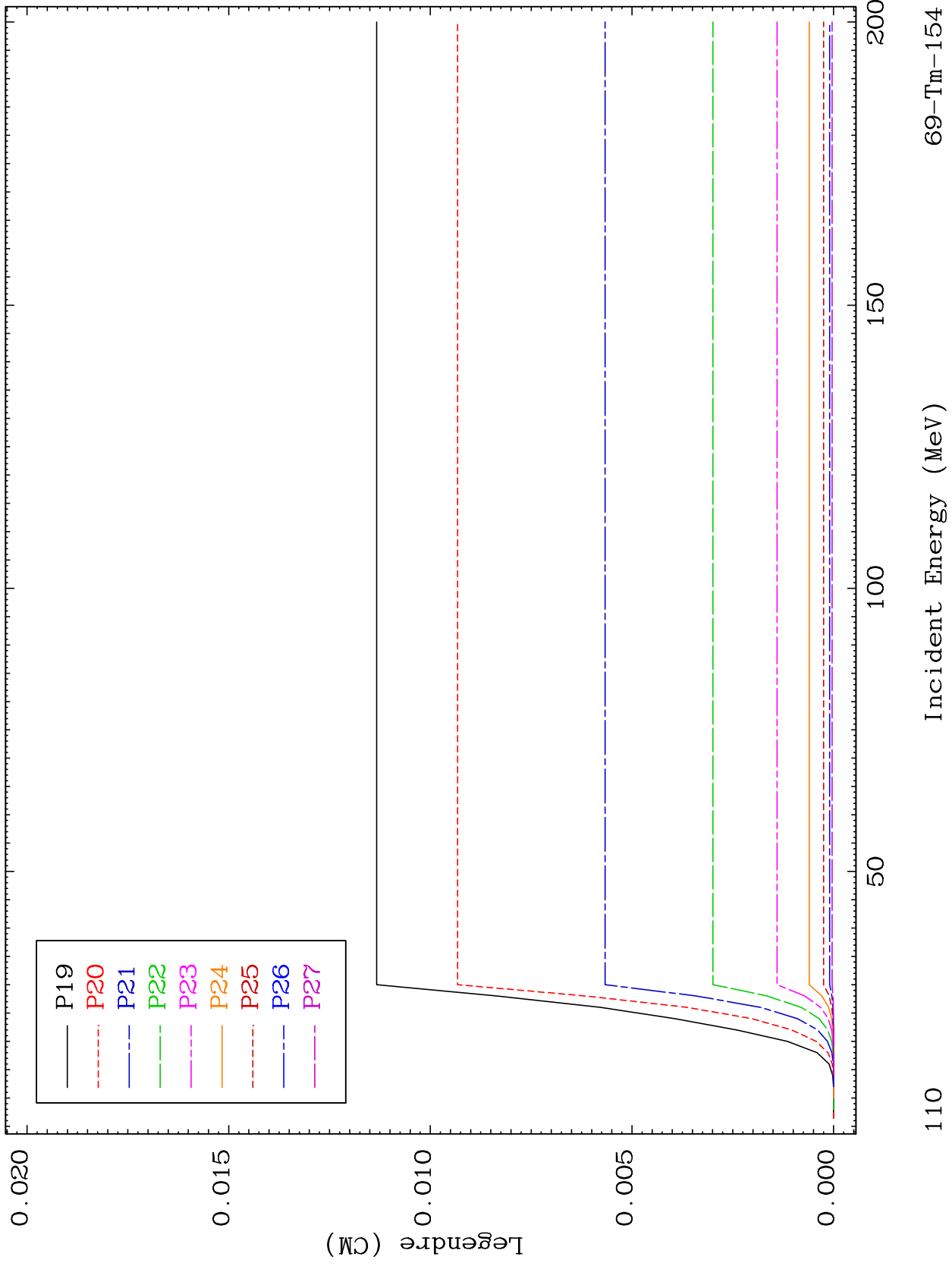
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

69-Tm-154



110

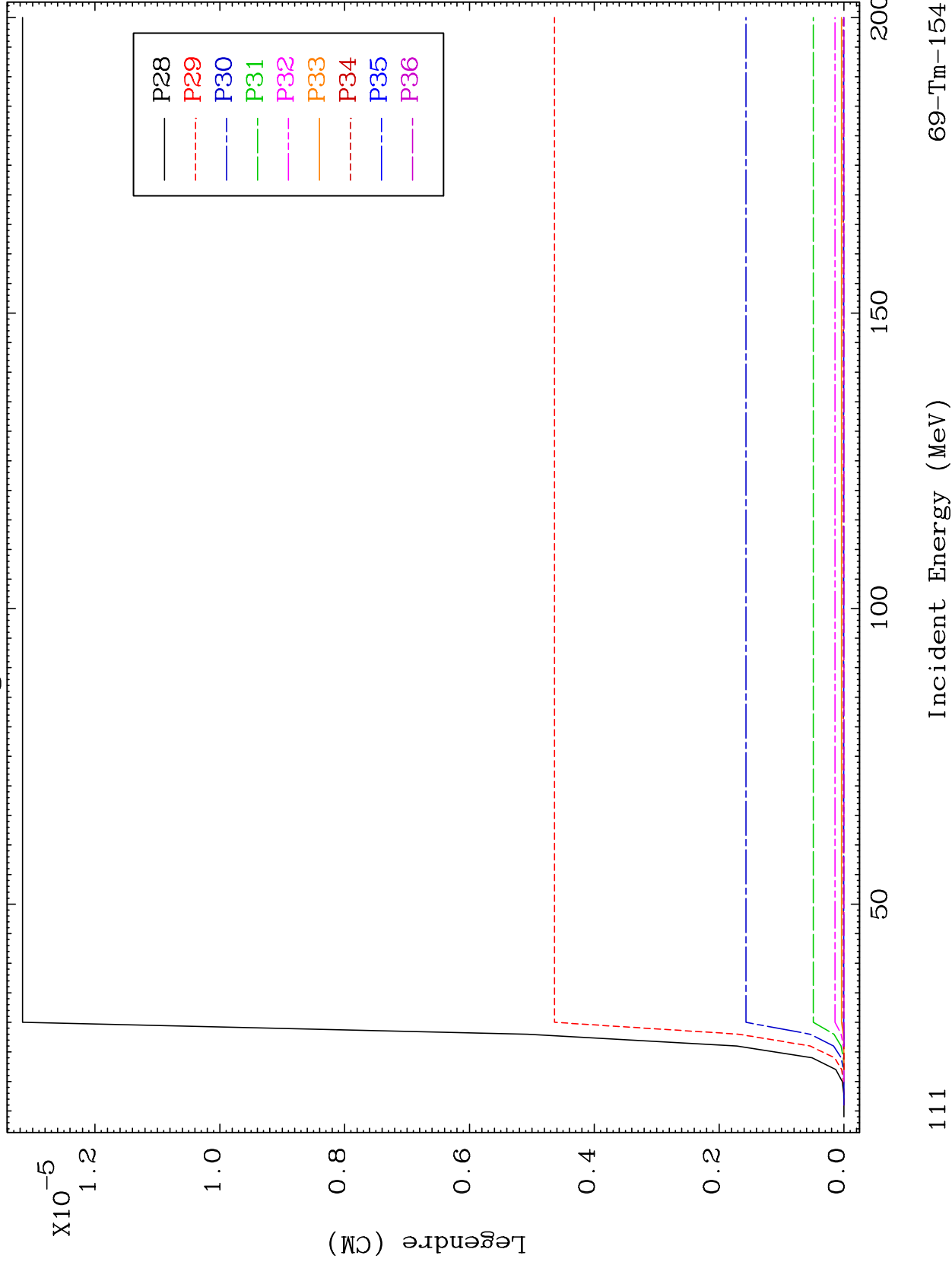
Incident Energy (MeV)

69-Tm-154

MAT 6880

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

69-Tm-154

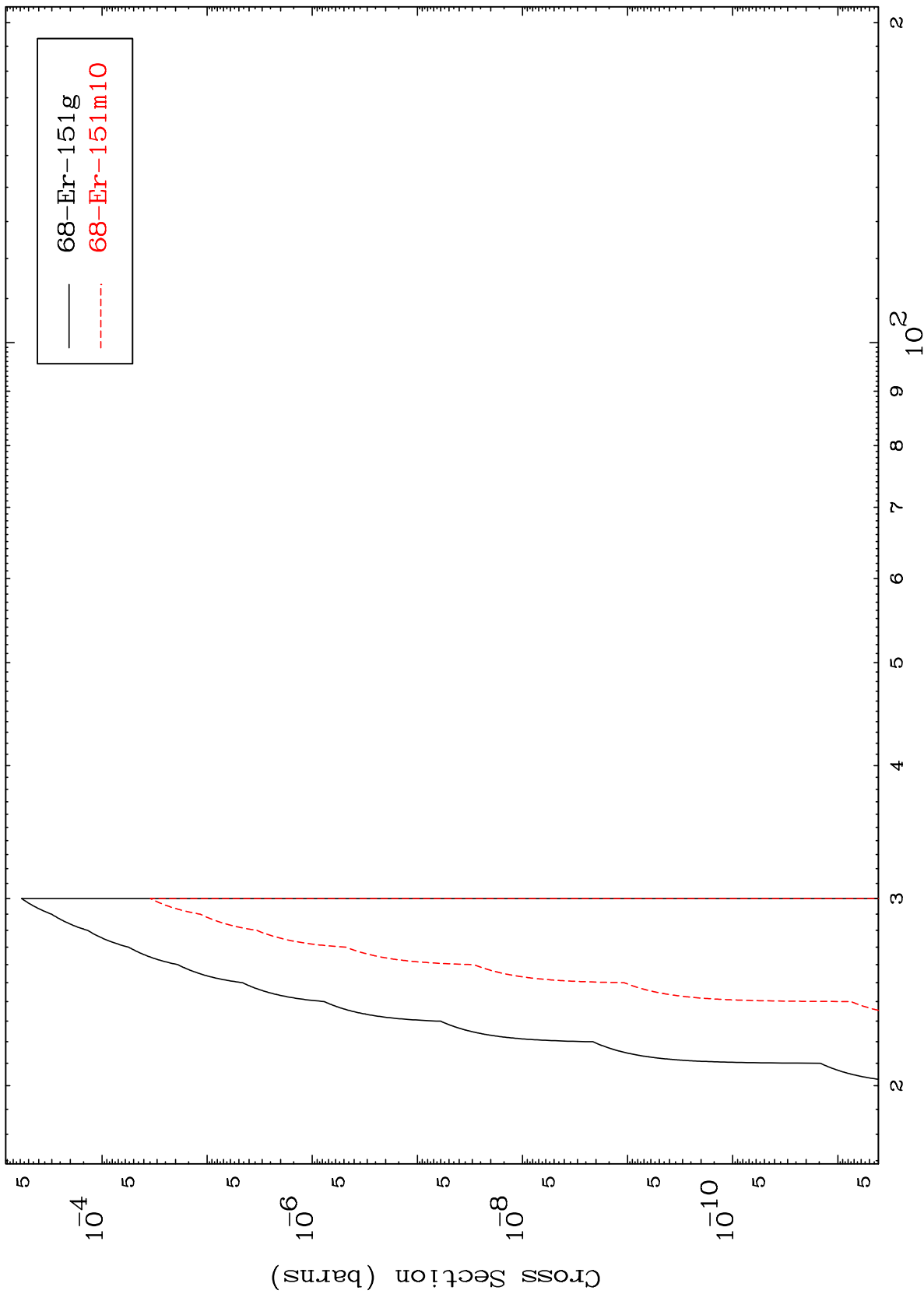


111

Incident Energy (MeV)

69-Tm-154

Radionuclide Production Cross Section



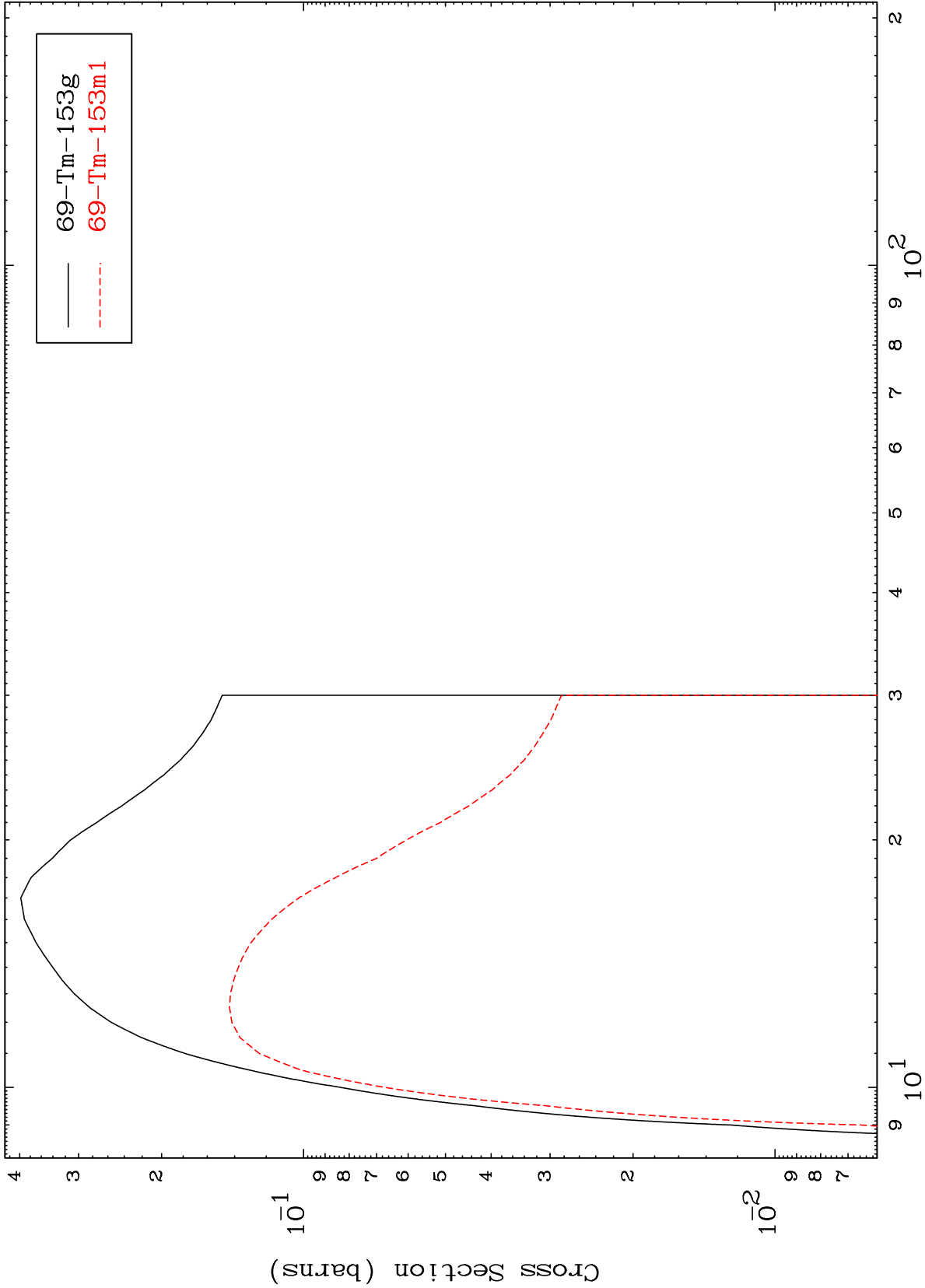
68-Er-151g
68-Er-151m10

MAT 6880

(n,2n)

69-Tm-154

Radionuclide Production Cross Section



114

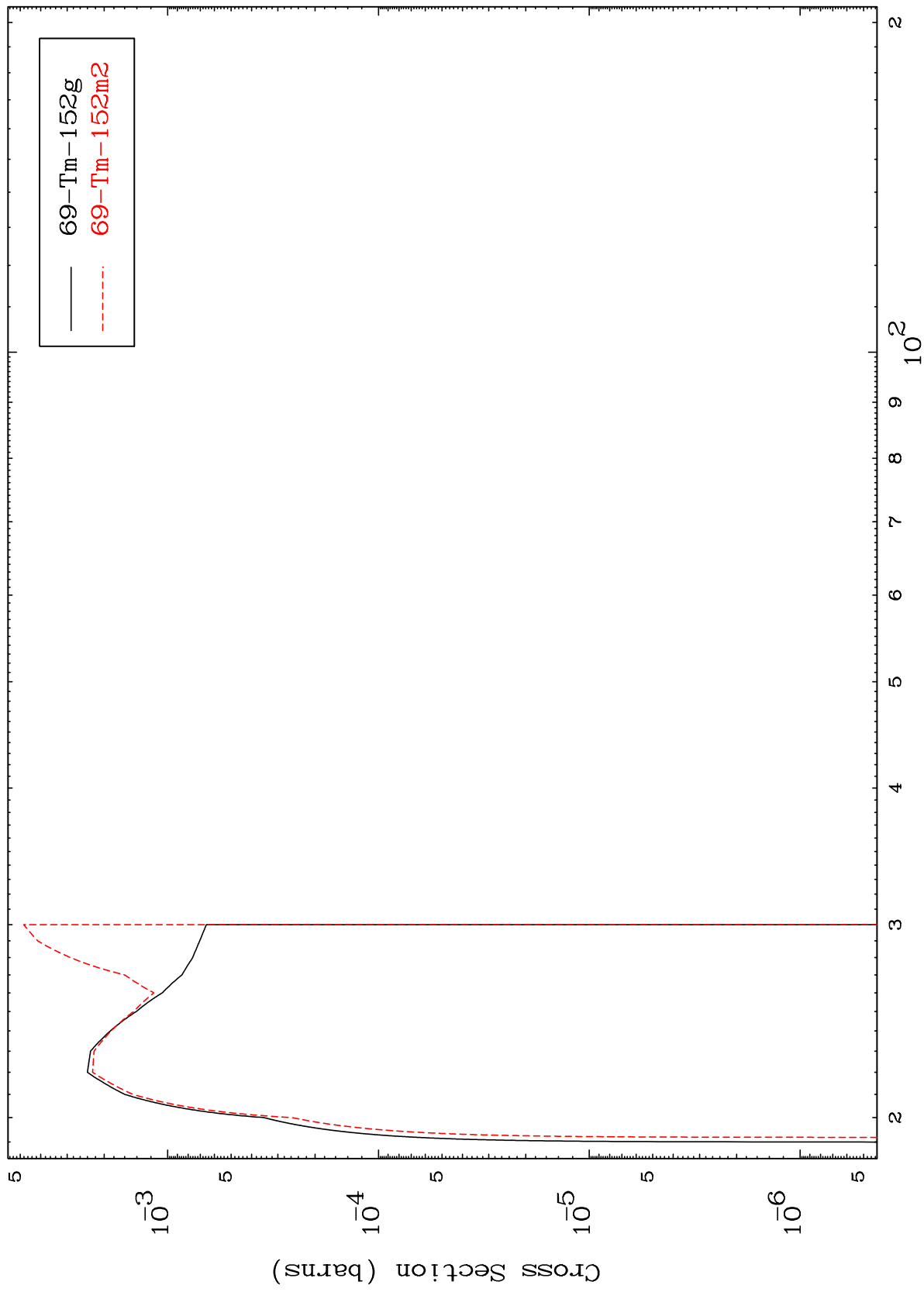
Incident Energy (MeV)

69-Tm-154

MAT 6880

69-Tm-154

(n,3n)
Radionuclide Production Cross Section



69-Tm-154

Incident Energy (MeV)

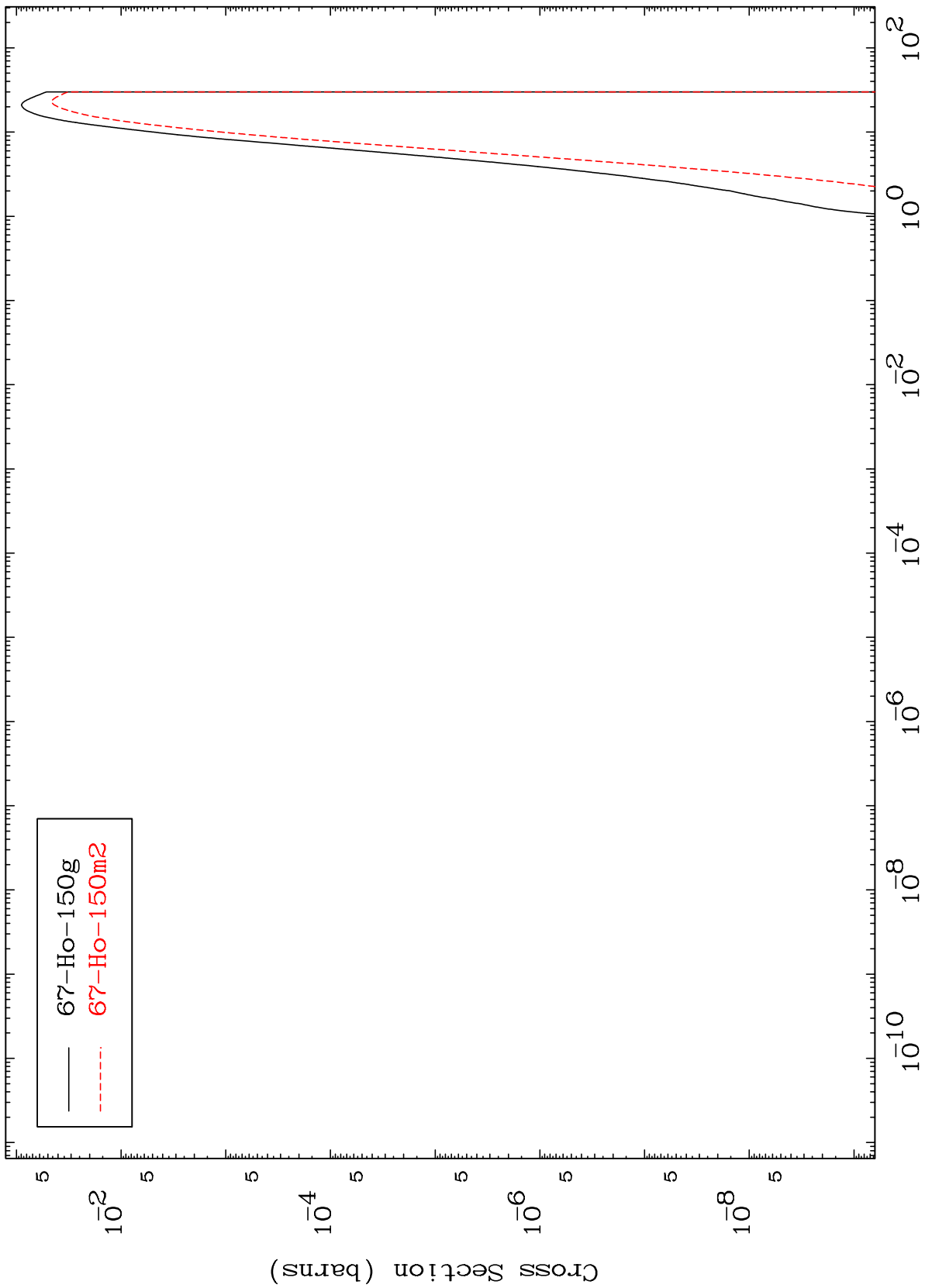
115

MAT 6880

(n, n') α

69-Tm-154

Radionuclide Production Cross Section

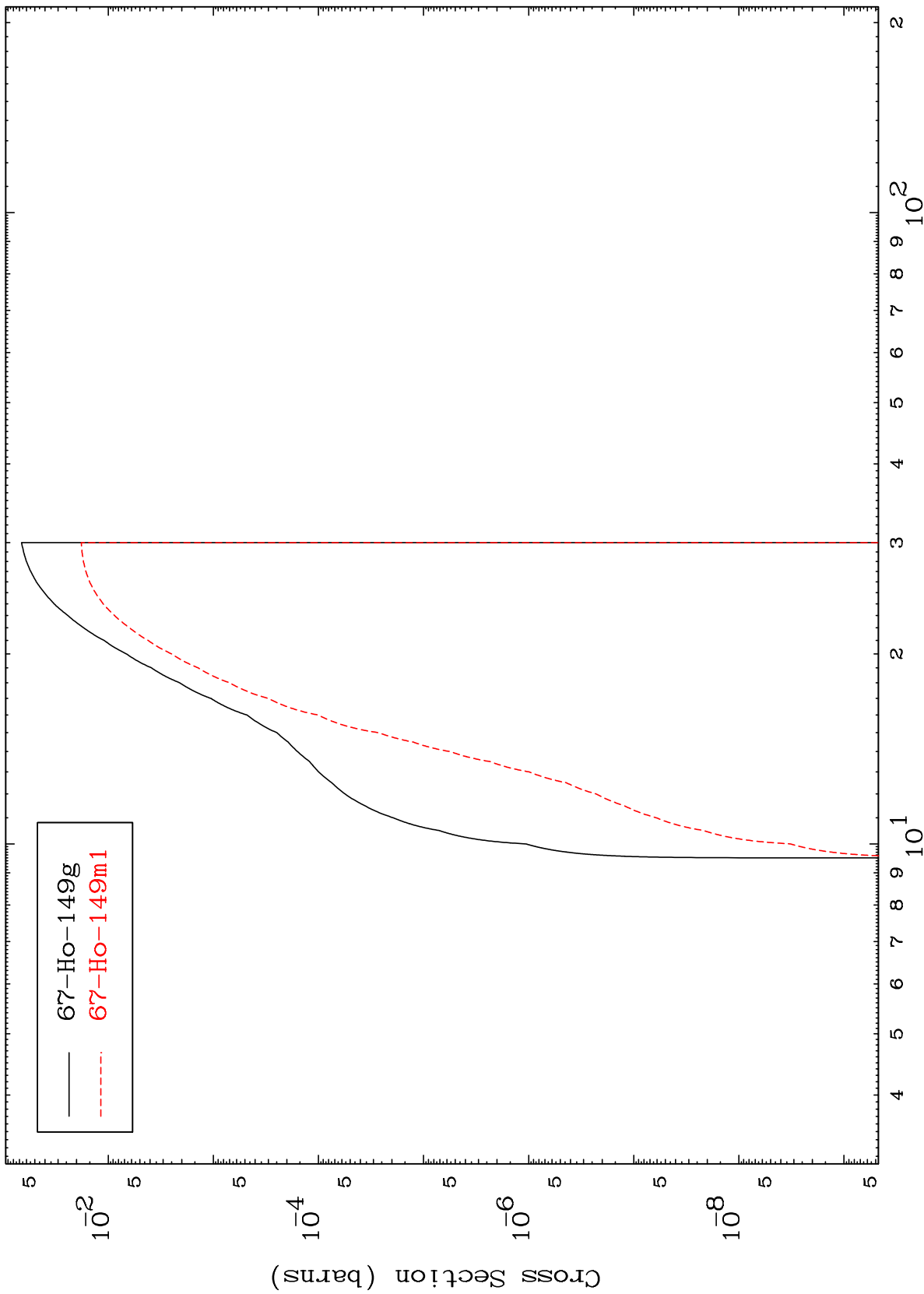


MAT 6880

$(n,2n)$ α

69-Tm-154

Radionuclide Production Cross Section



— 67-Ho-149g
- - - 67-Ho-149m1

117

Incident Energy (MeV)

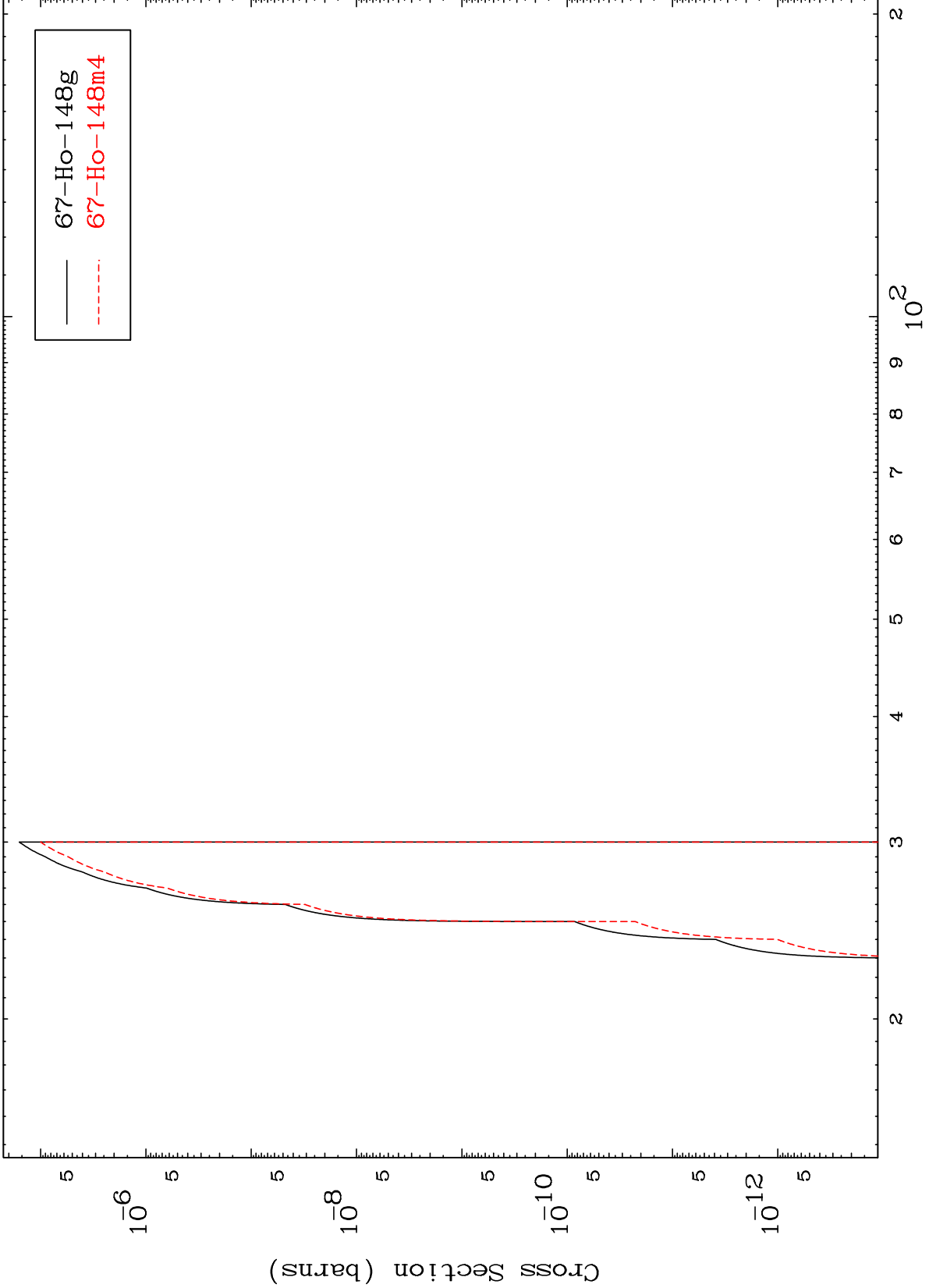
69-Tm-154

MAT 6880

(n,3n) α

69-Tm-154

Radionuclide Production Cross Section



118

Incident Energy (MeV)

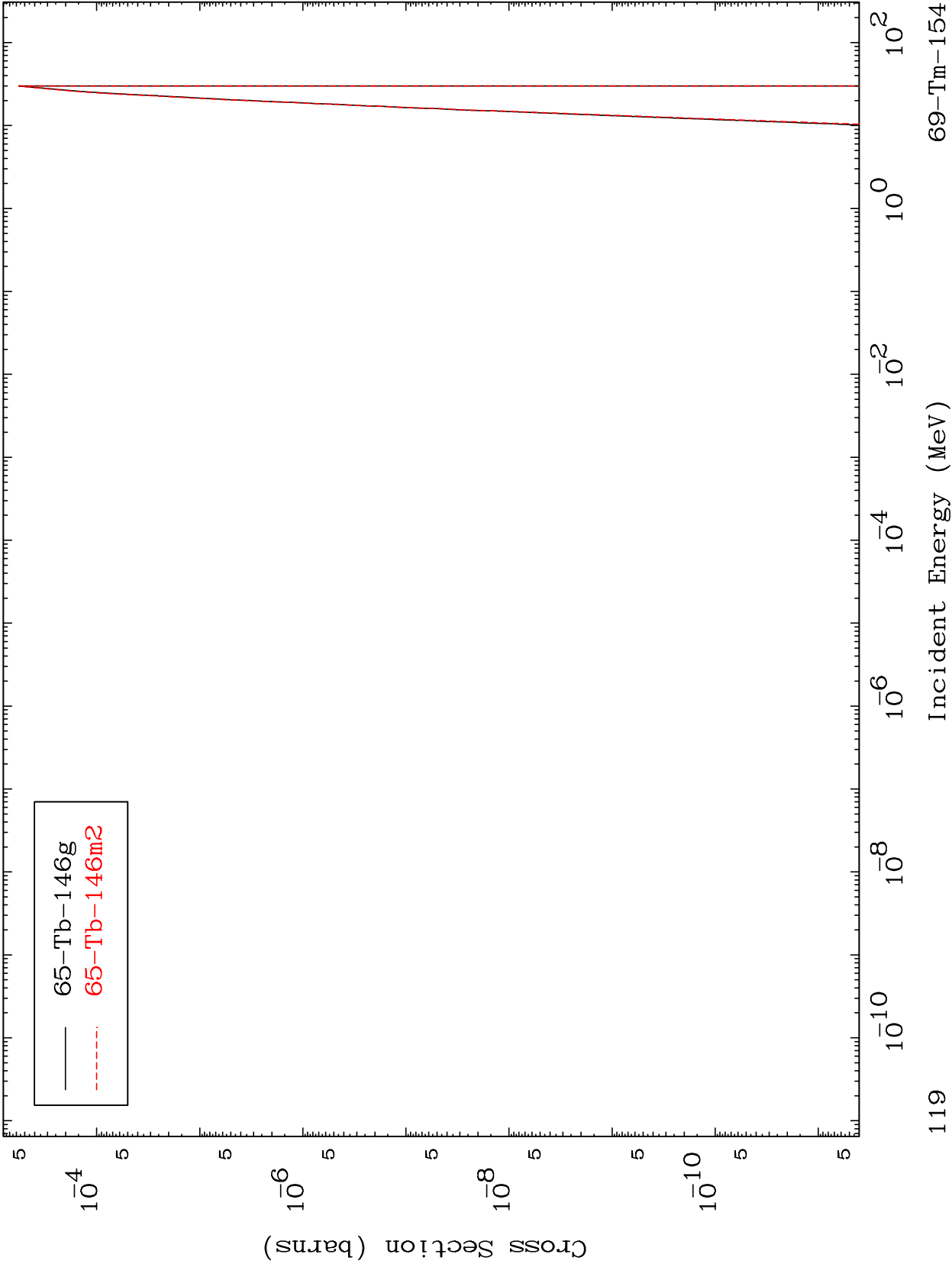
69-Tm-154

MAT 6880

(n,n') 2 α

69-Tm-154

Radionuclide Production Cross Section

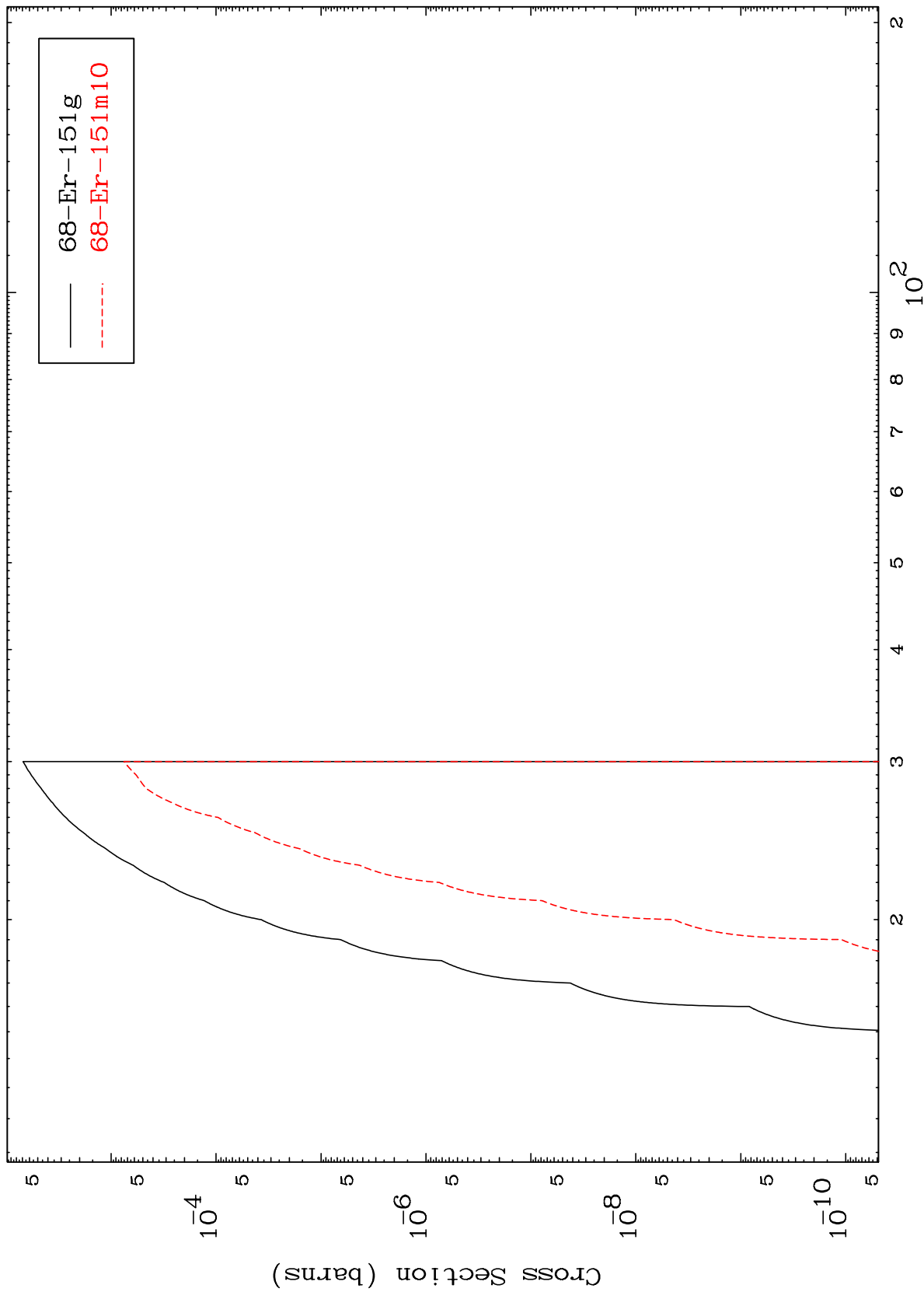


MAT 6880

(n,n') t

69-Tm-154

Radionuclide Production Cross Section



120

Incident Energy (MeV)

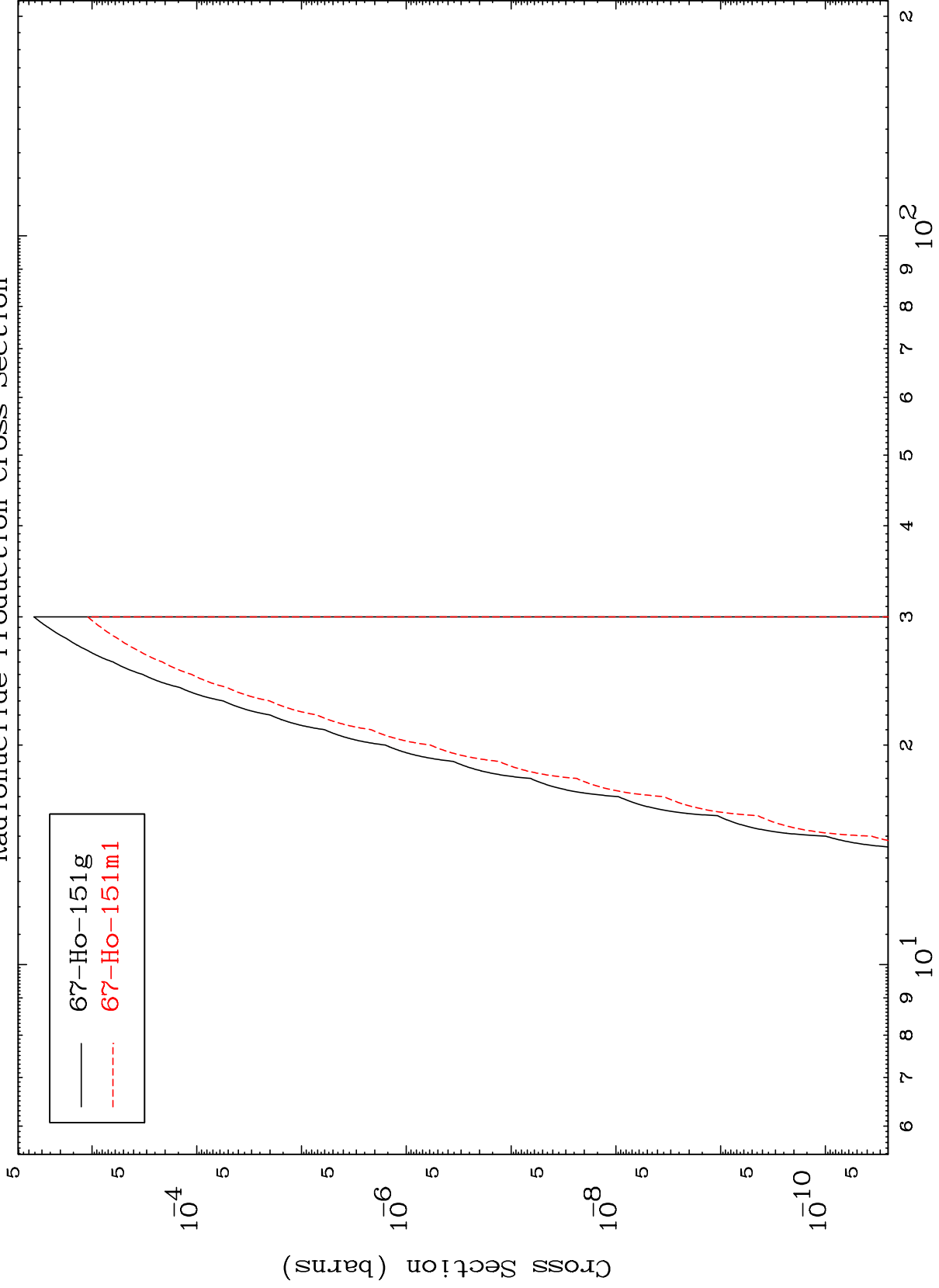
69-Tm-154

MAT 6880

(n,n') He-3

69-Tm-154

Radionuclide Production Cross Section



121

Incident Energy (MeV)

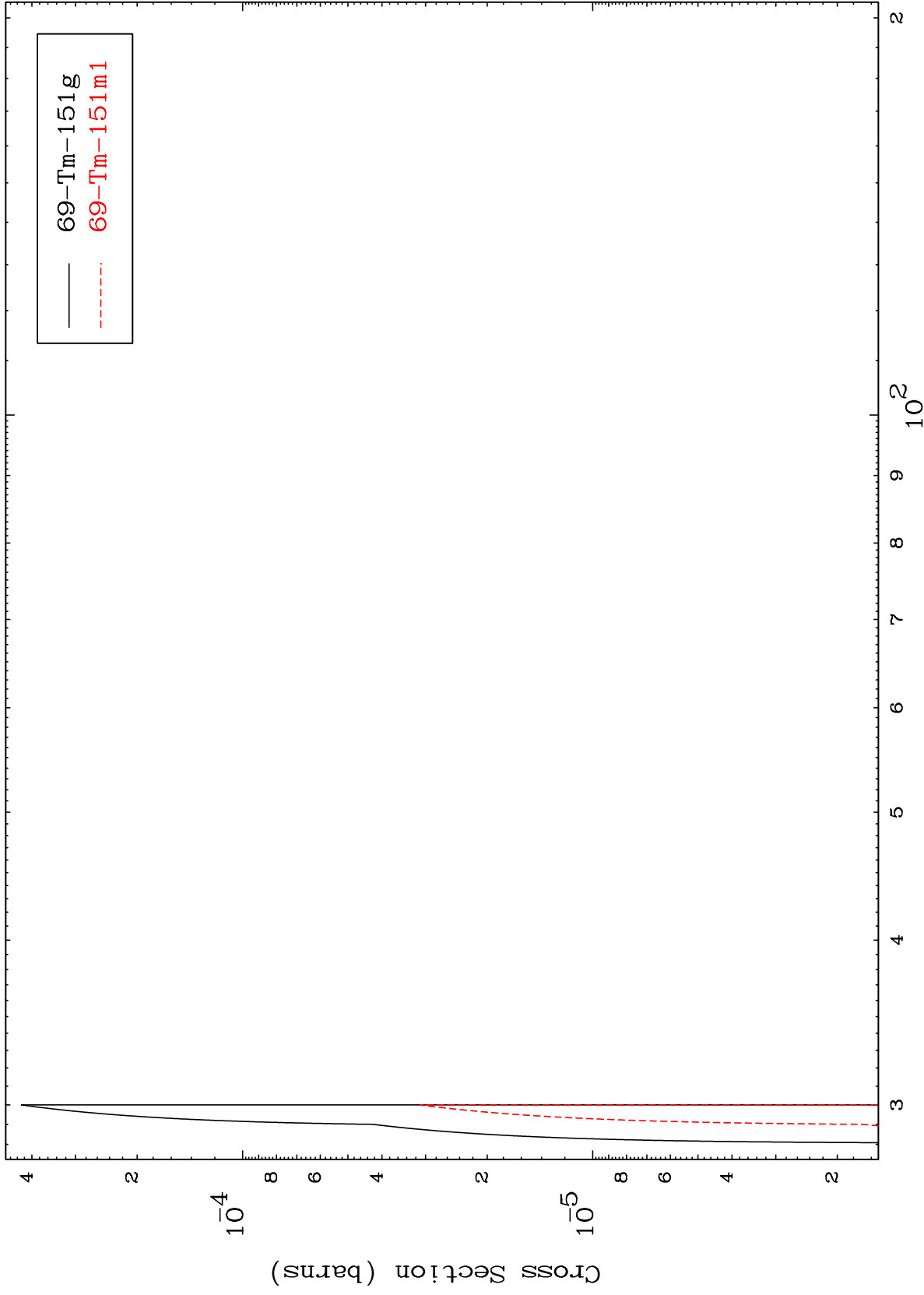
69-Tm-154

MAT 6880

(n,4n)

69-Tm-154

Radionuclide Production Cross Section



122

Incident Energy (MeV)

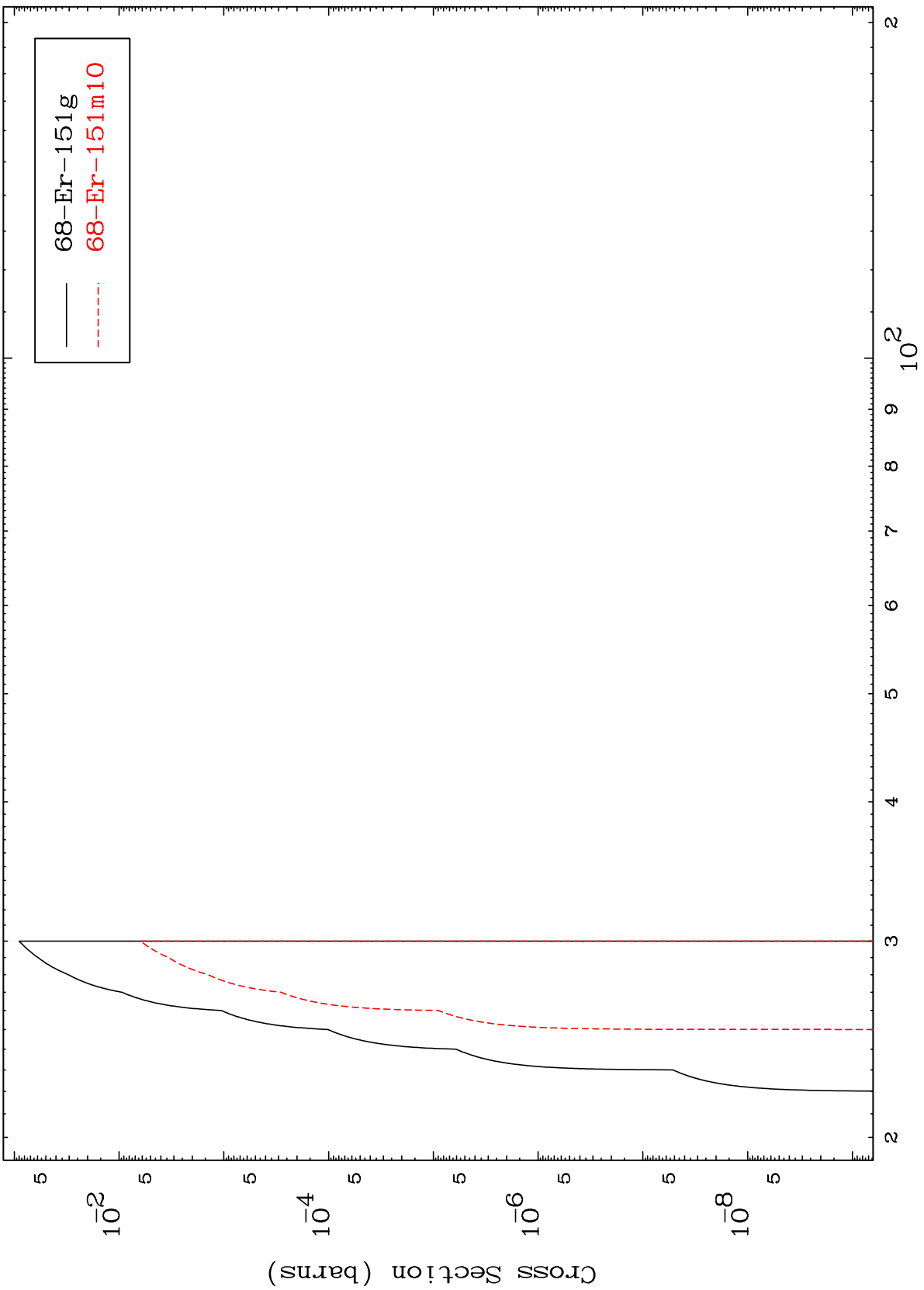
69-Tm-154

MAT 6880

(n,3n) p

69-Tm-154

Radionuclide Production Cross Section



68-Er-151g
68-Er-151m10

123

Incident Energy (MeV)

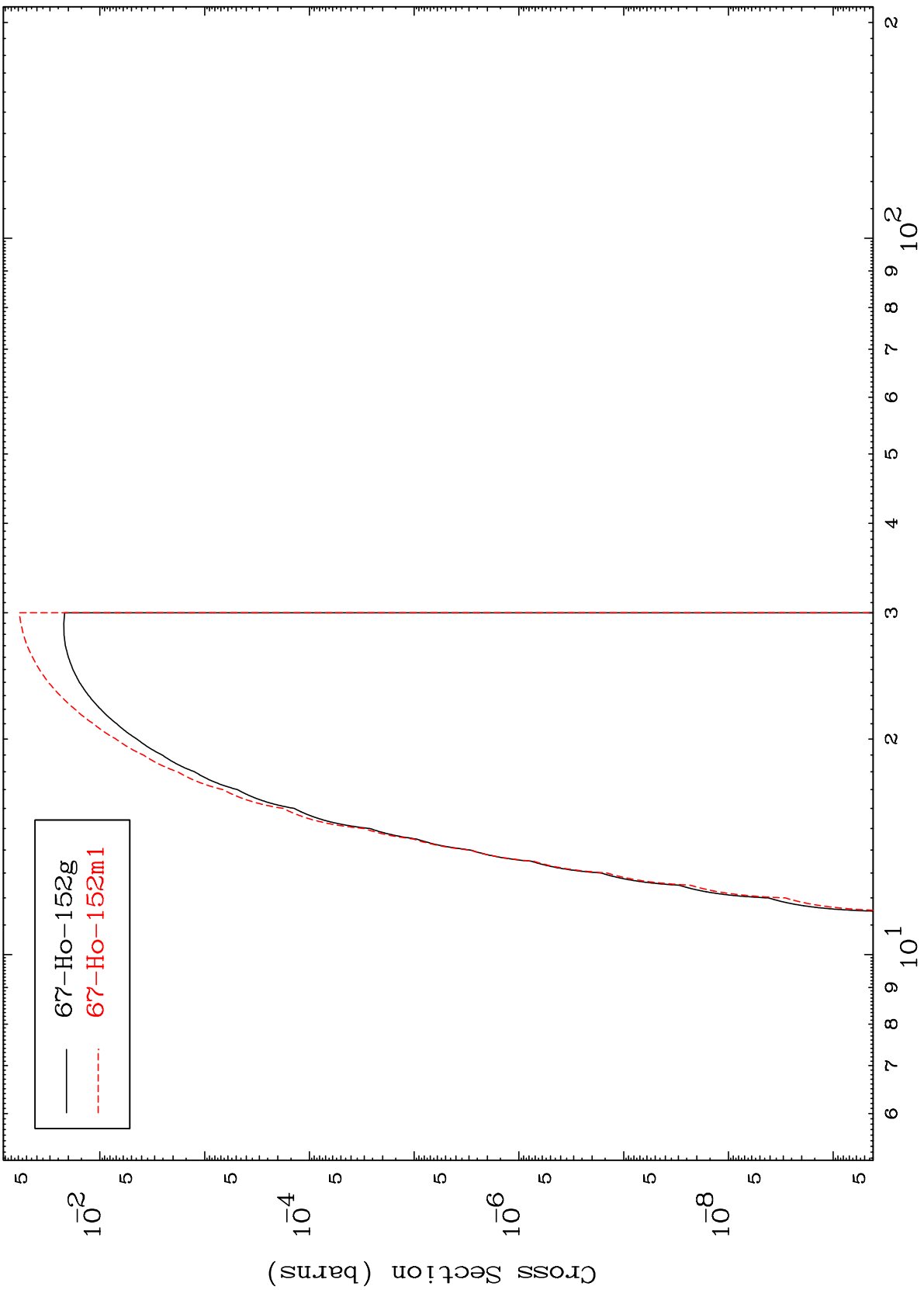
69-Tm-154

MAT 6880

(n,2n) p

69-Tm-154

Radionuclide Production Cross Section



67-Ho-152g
67-Ho-152m1

124

Incident Energy (MeV)

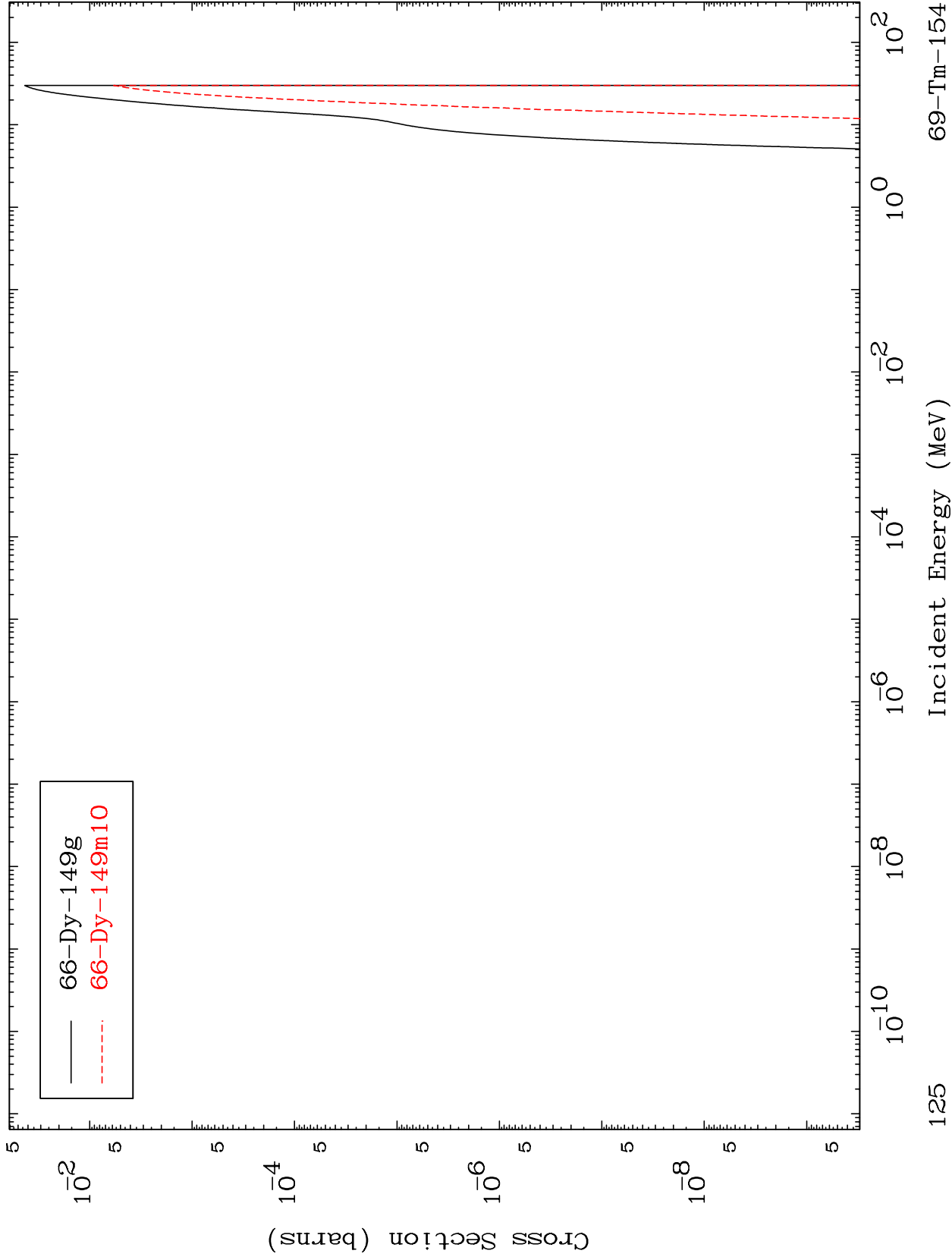
69-Tm-154

MAT 6880

(n,n') p α

69-Tm-154

Radionuclide Production Cross Section

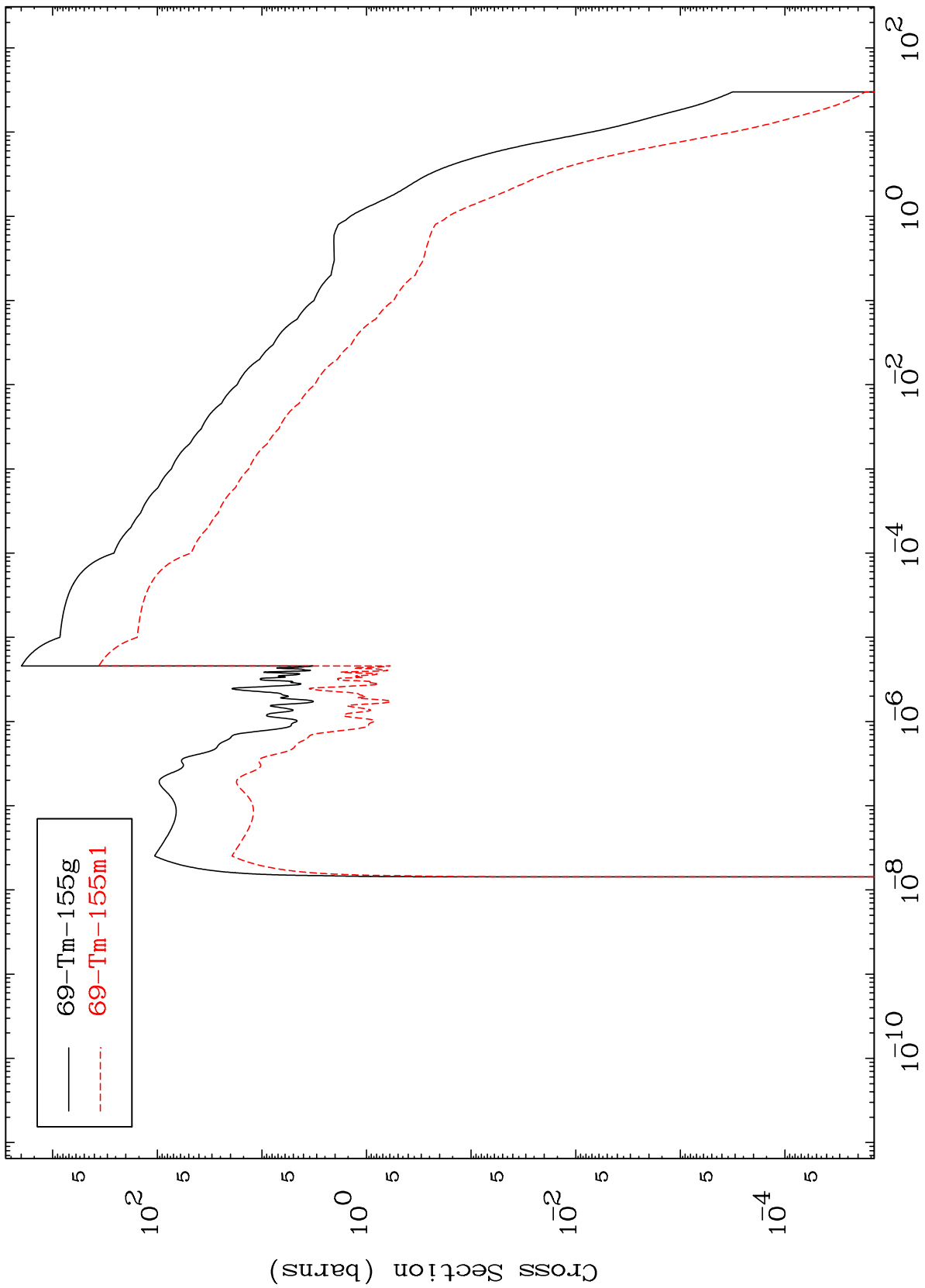


125

MAT 6880

69-Tm-154

Radionuclide Production Cross Section
(n, γ)



126

69-Tm-154

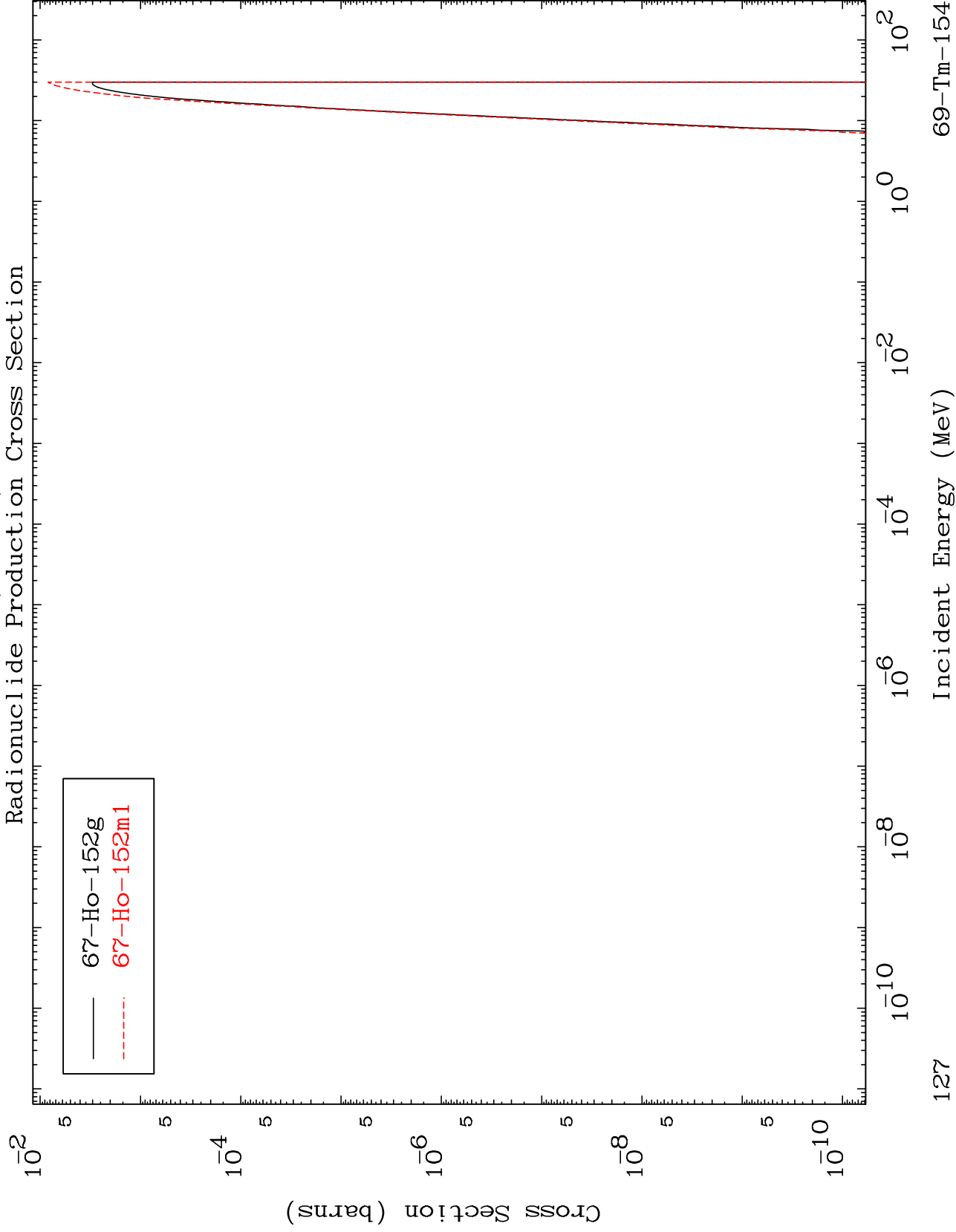
Incident Energy (MeV)

MAT 6880

(n,He-3)

69-Tm-154

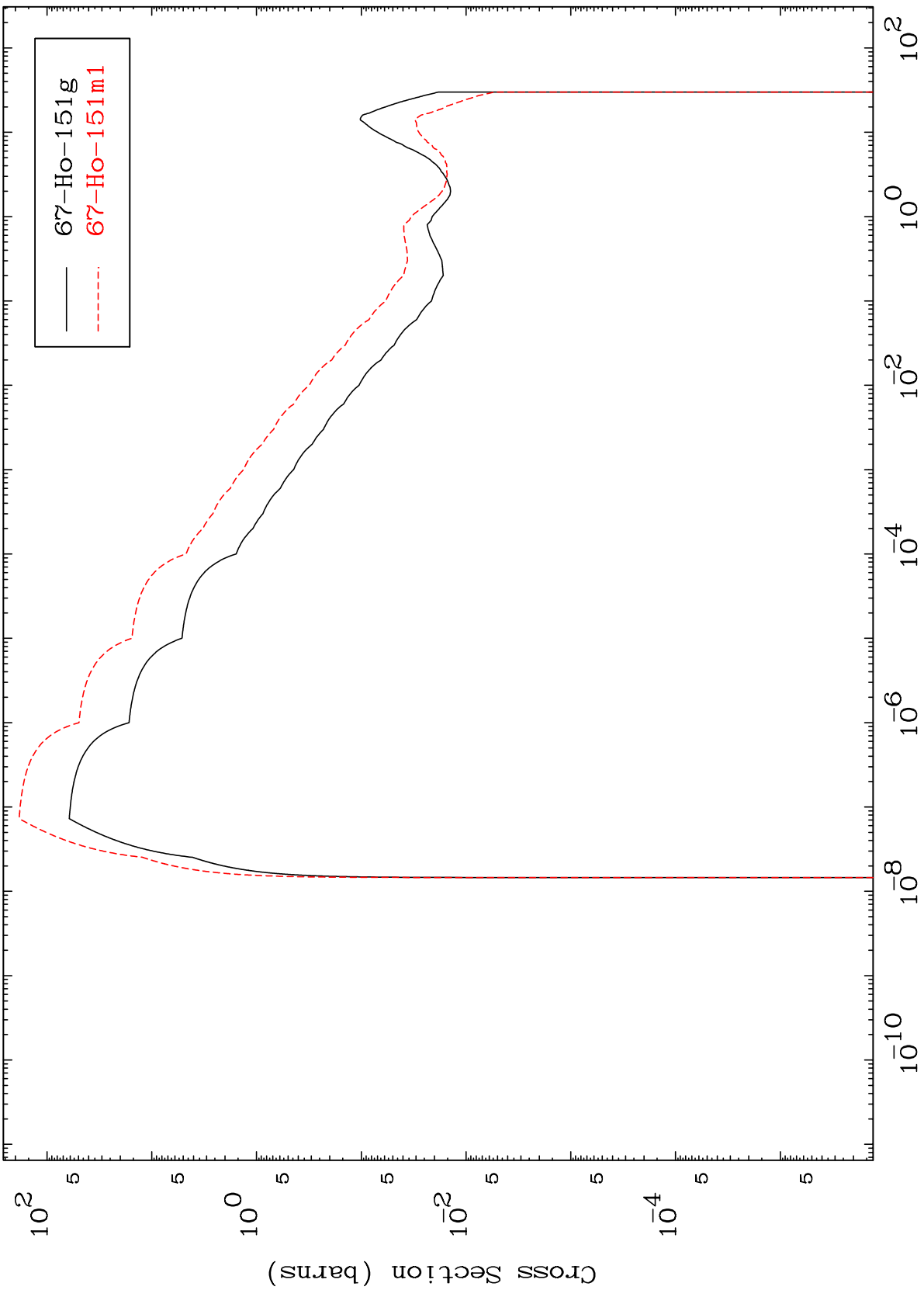
Radionuclide Production Cross Section



MAT 6880

69-Tm-154

(n, α)
Radionuclide Production Cross Section



128

69-Tm-154

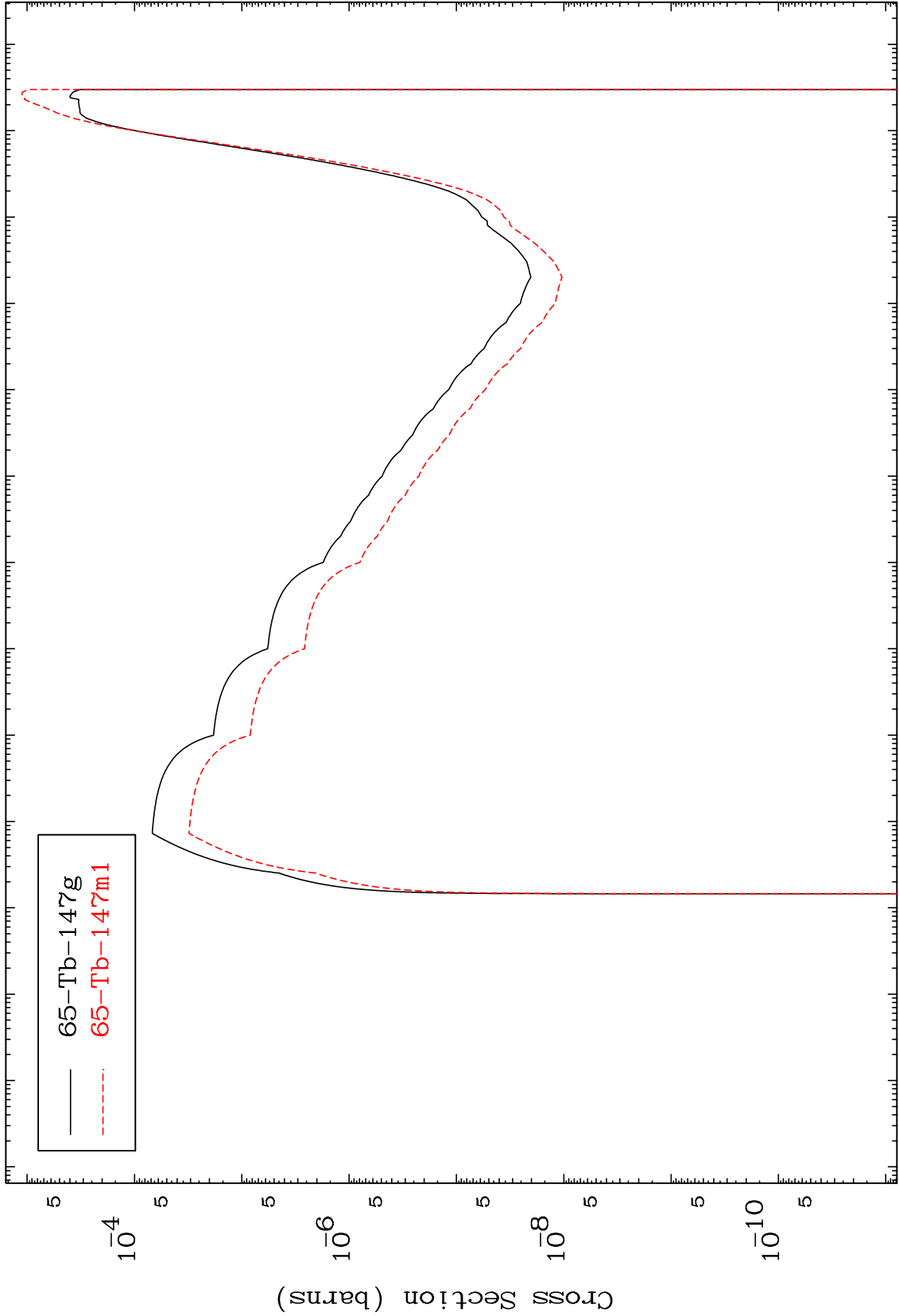
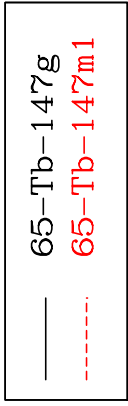
Incident Energy (MeV)

MAT 6880

(n,2α)

69-Tm-154

Radionuclide Production Cross Section



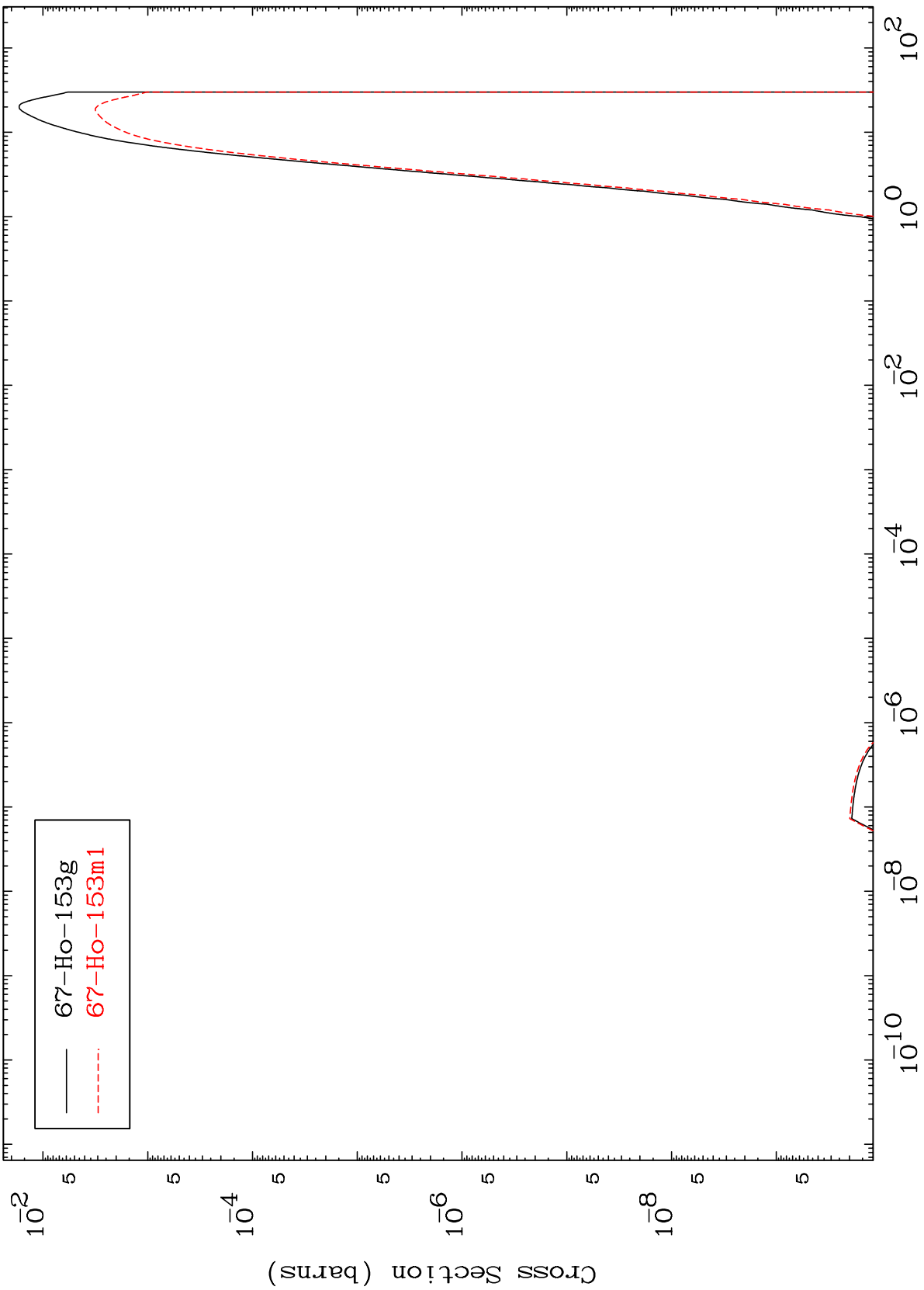
10⁻¹⁰ 10⁻⁸ 10⁻⁶ 10⁻⁴ 10⁰ 10²

69-Tm-154

MAT 6880

69-Tm-154

(n,2p)
Radionuclide Production Cross Section



130

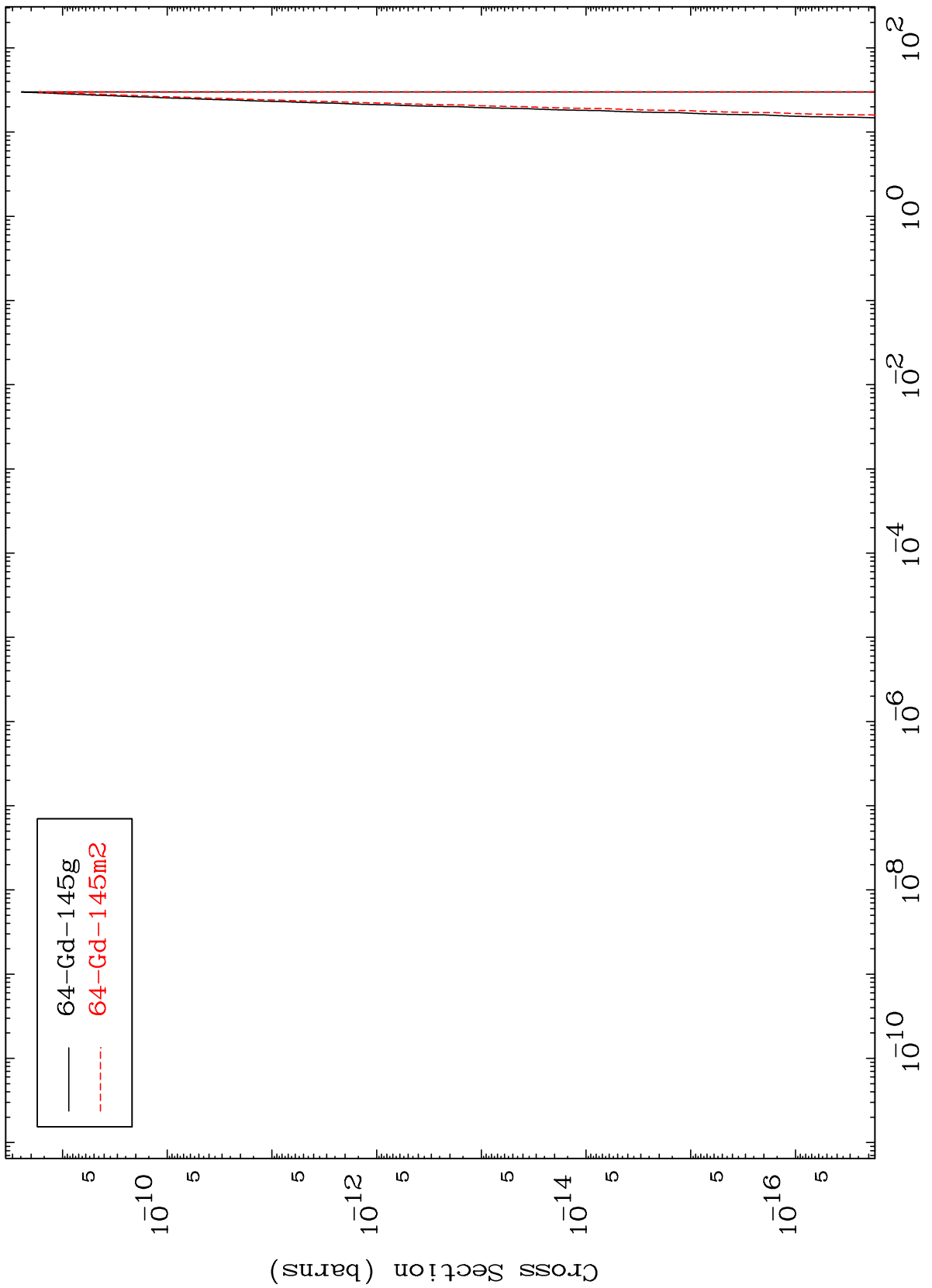
69-Tm-154

MAT 6880

(n,d) 2α

$^{69}\text{Tm-154}$

Radionuclide Production Cross Section

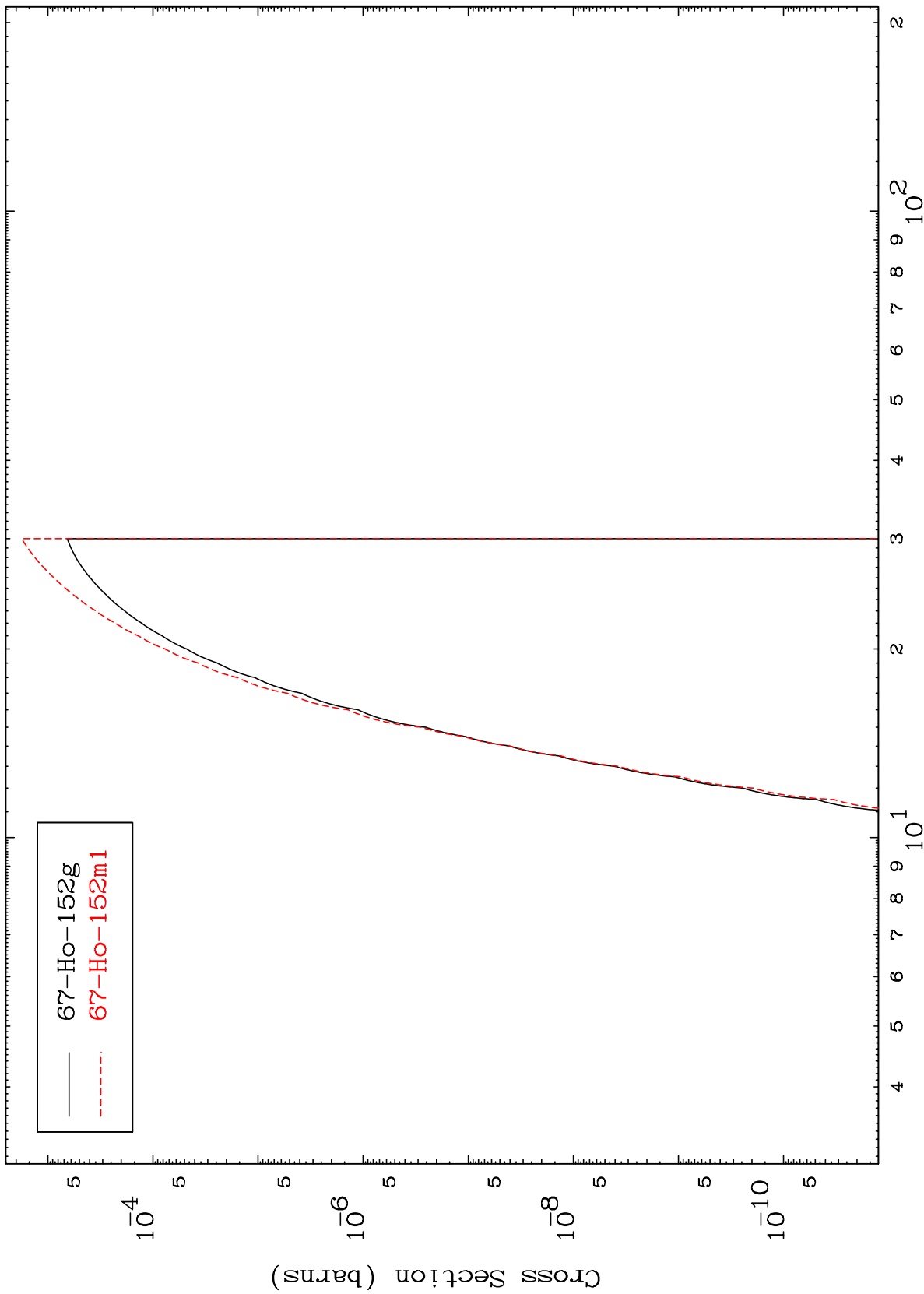


MAT 6880

(n,p) d

69-Tm-154

Radionuclide Production Cross Section



67-Ho-152g
67-Ho-152m1

132

Incident Energy (MeV)

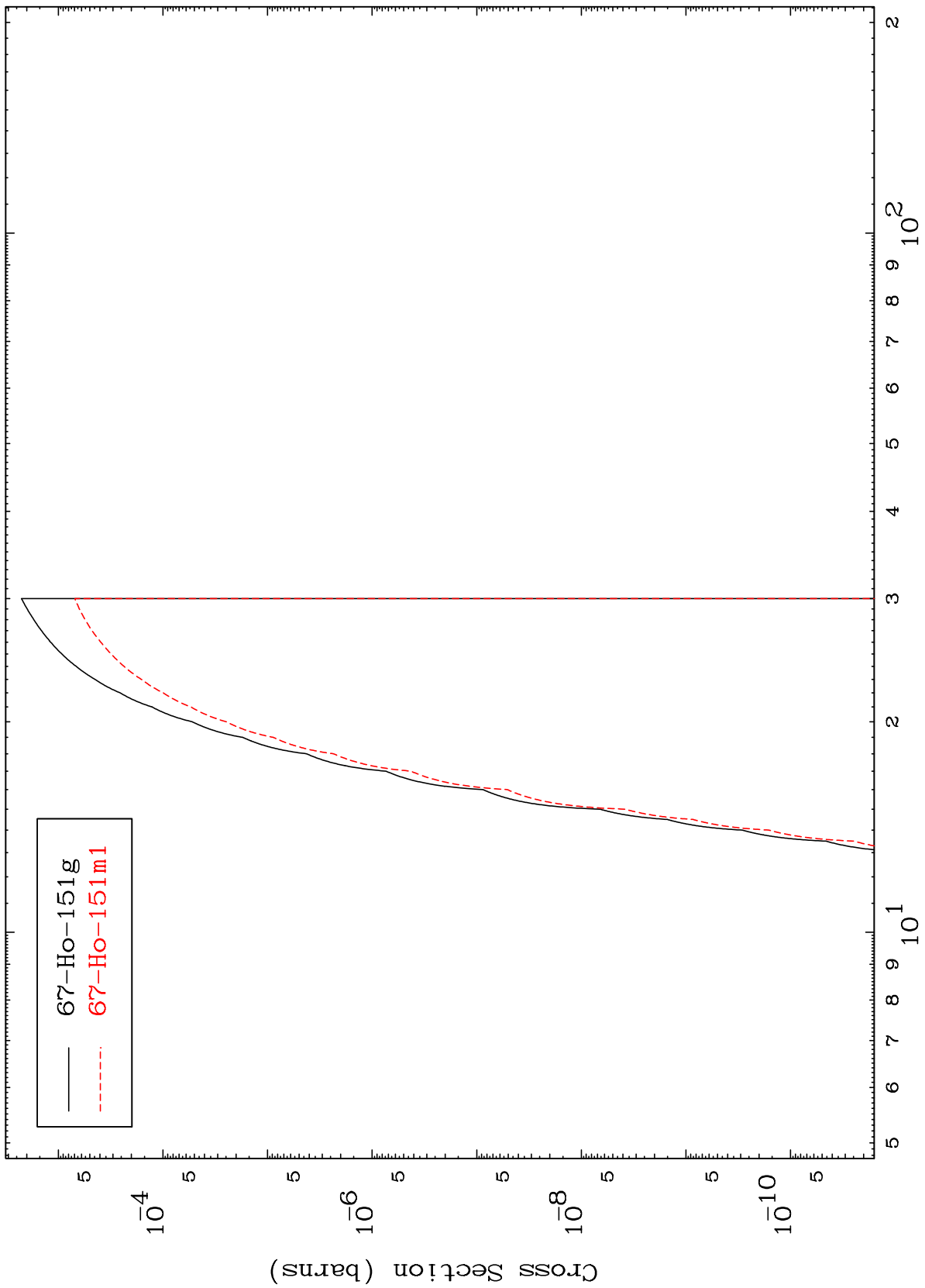
69-Tm-154

MAT 6880

(n,p) t

69-Tm-154

Radionuclide Production Cross Section



67-Ho-151g
67-Ho-151m1

133

Incident Energy (MeV)

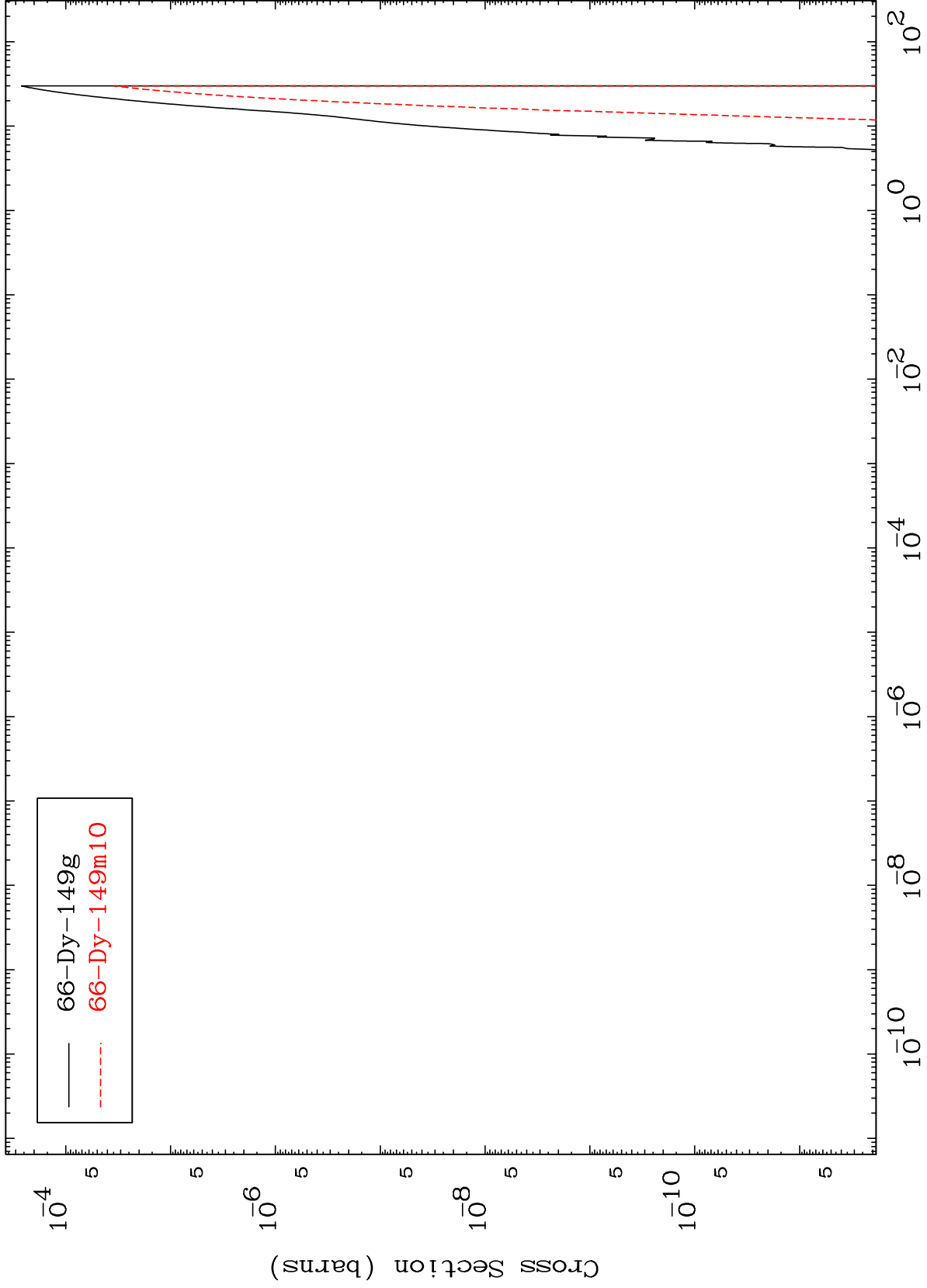
69-Tm-154

MAT 6880

(n,d) α

69-Tm-154

Radionuclide Production Cross Section



134

Incident Energy (MeV)

69-Tm-154