

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

Web:redcullen1.net/HOMEPAGE.NEW

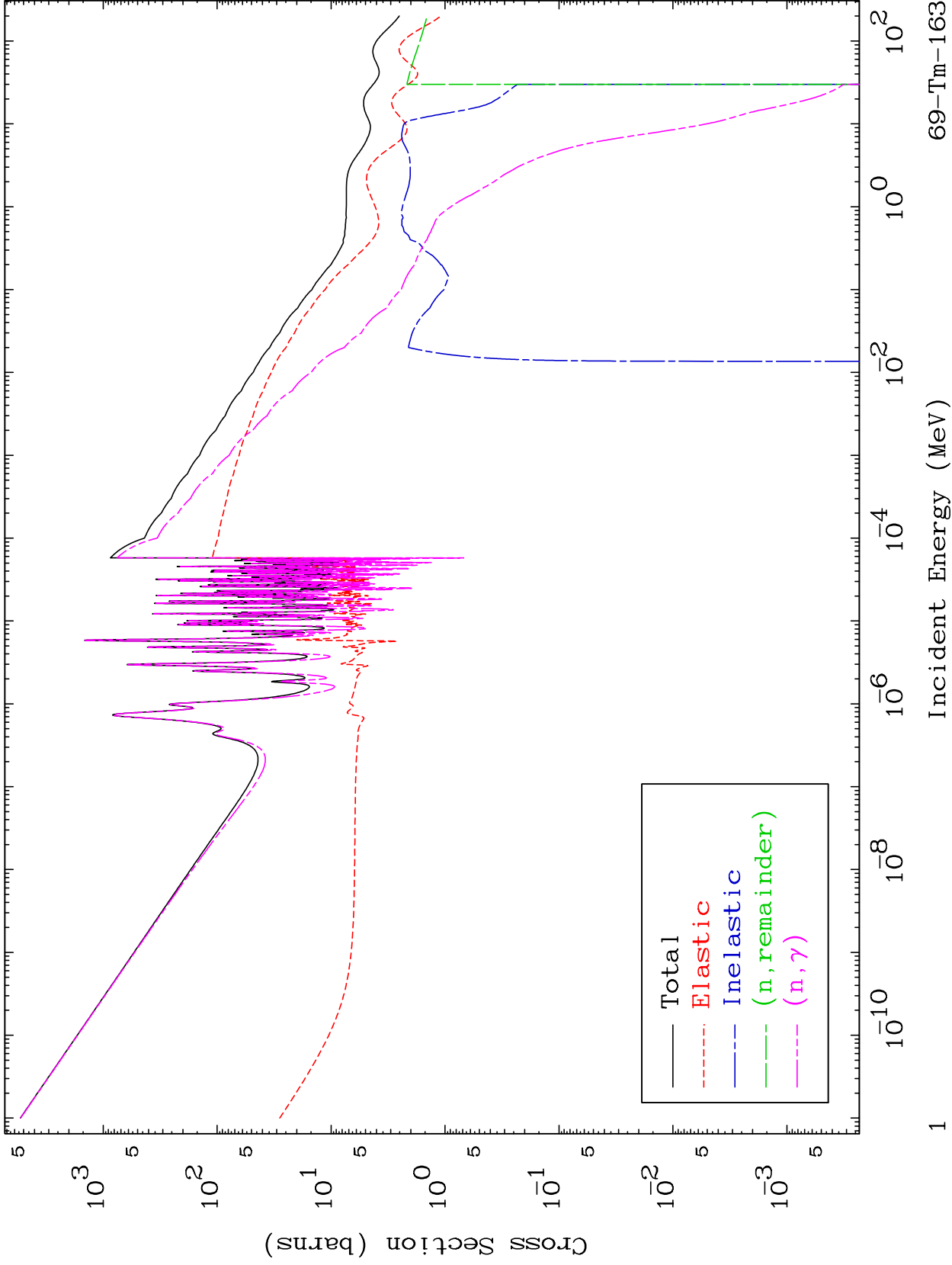
Press Mouse Button to Start

MAT 6907

Major

293 Kelvin Cross Sections

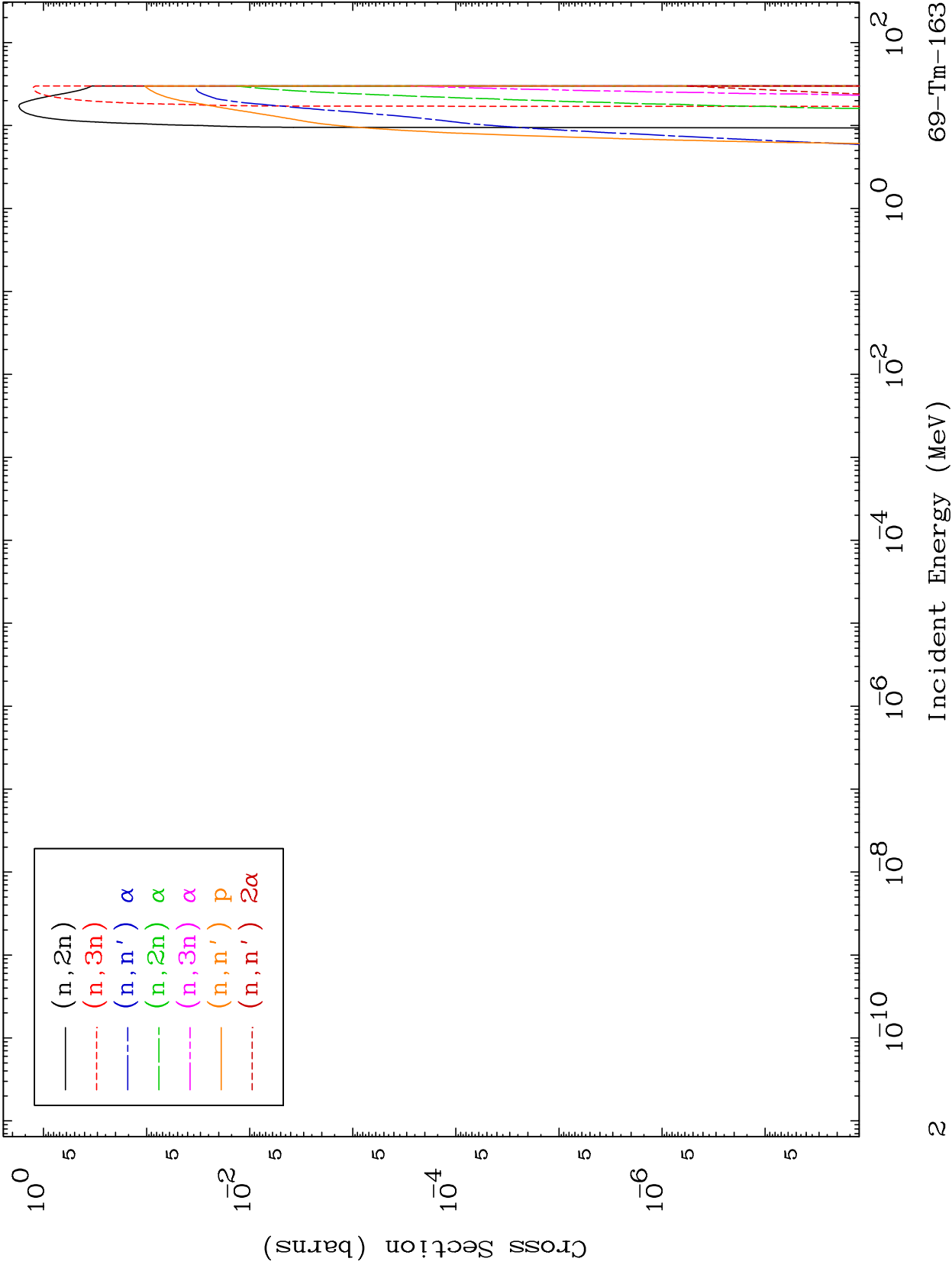
69-Tm-163



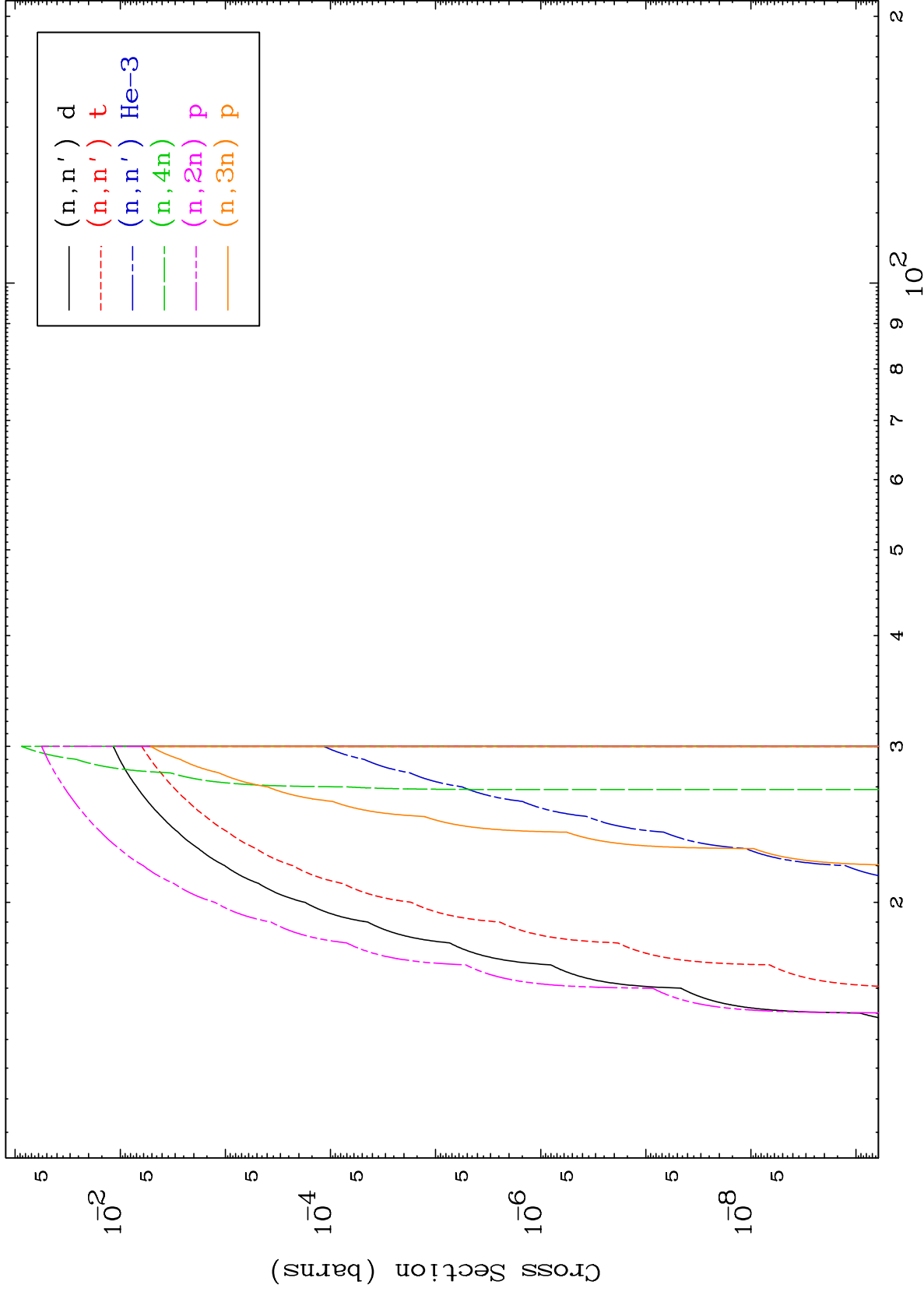
MAT 6907

Neutron Production
293 Kelvin Cross Sections

69-Tm-163



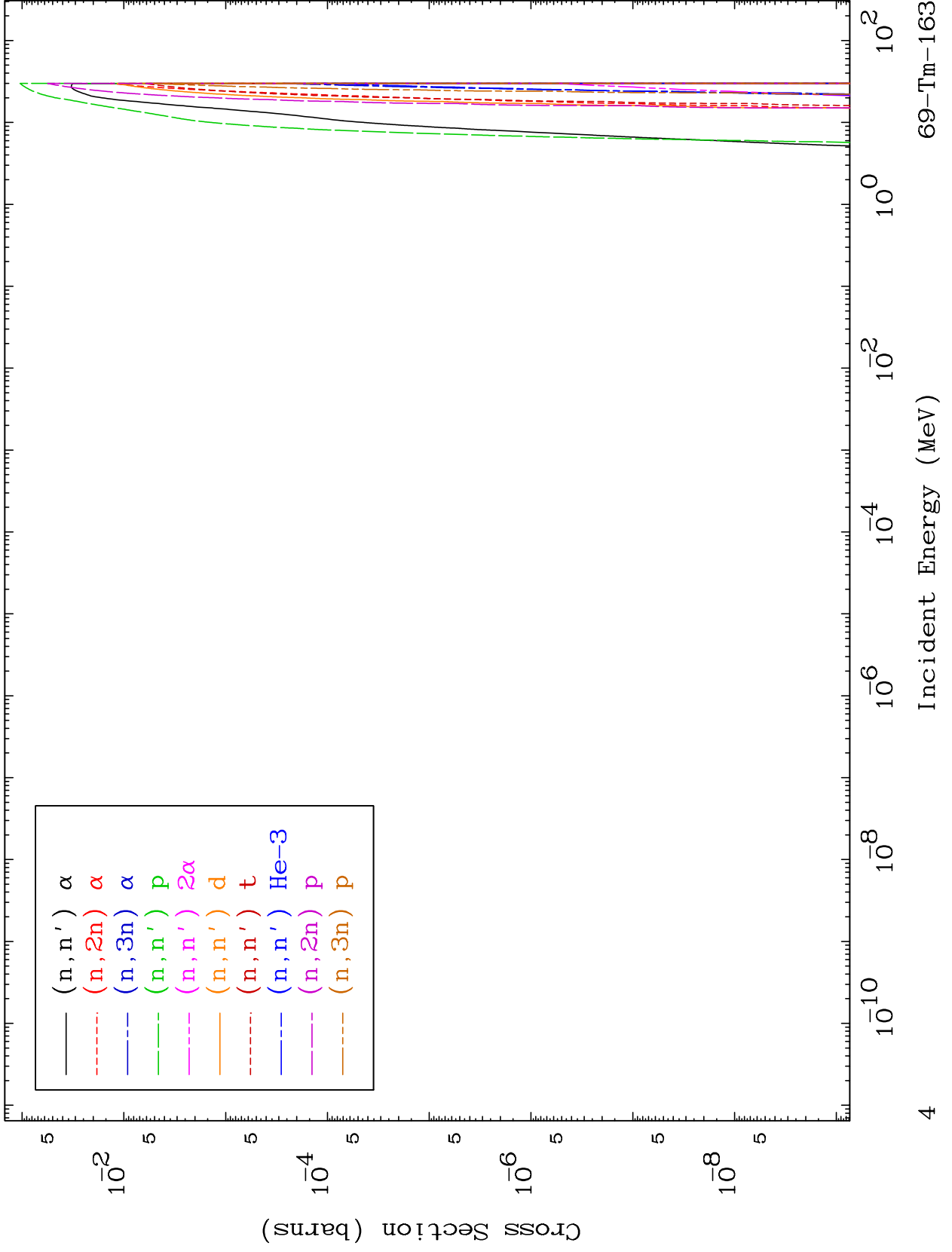
Neutron Production
293 Kelvin Cross Sections



MAT 6907

Charged Particle
293 Kelvin Cross Sections

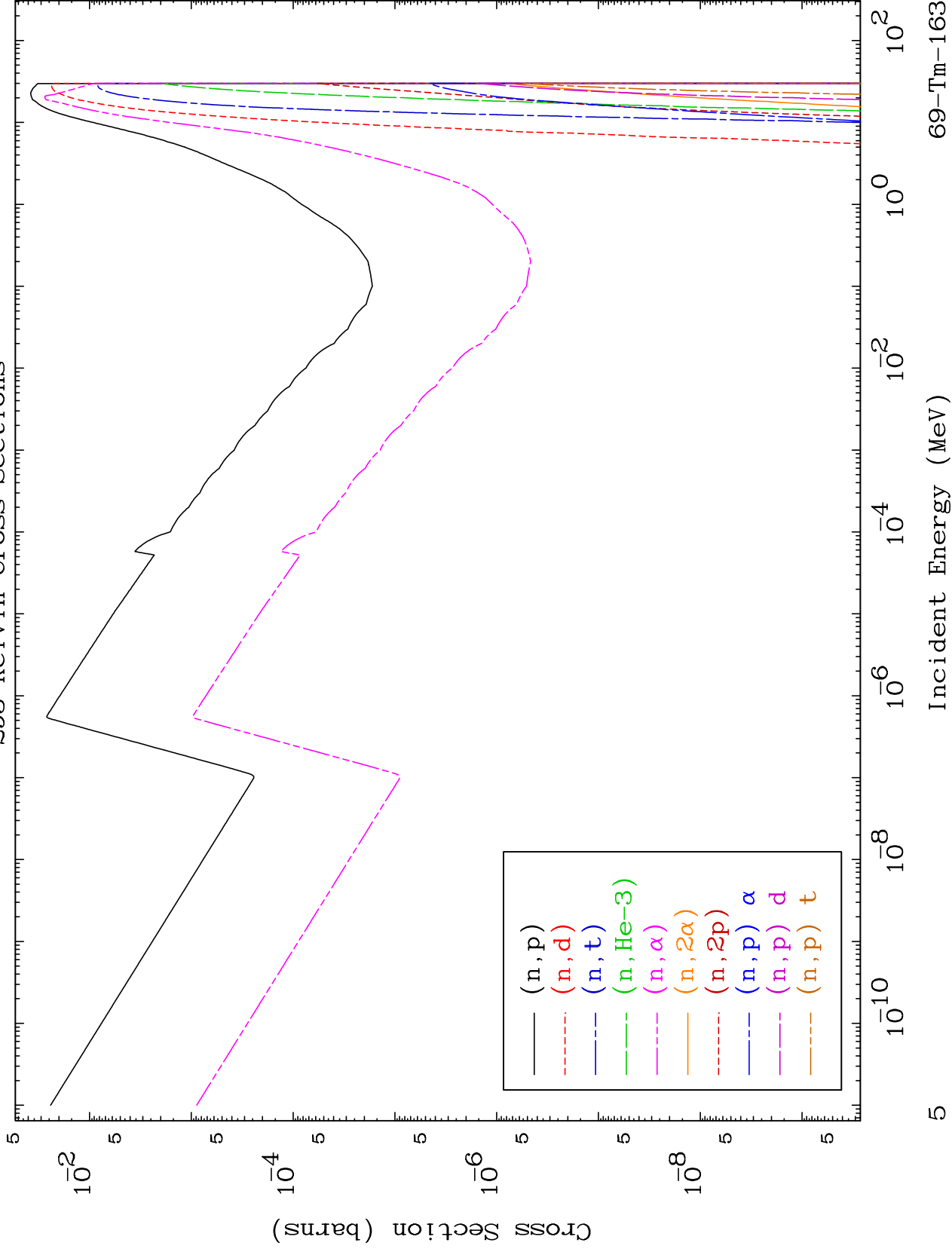
69-Tm-163

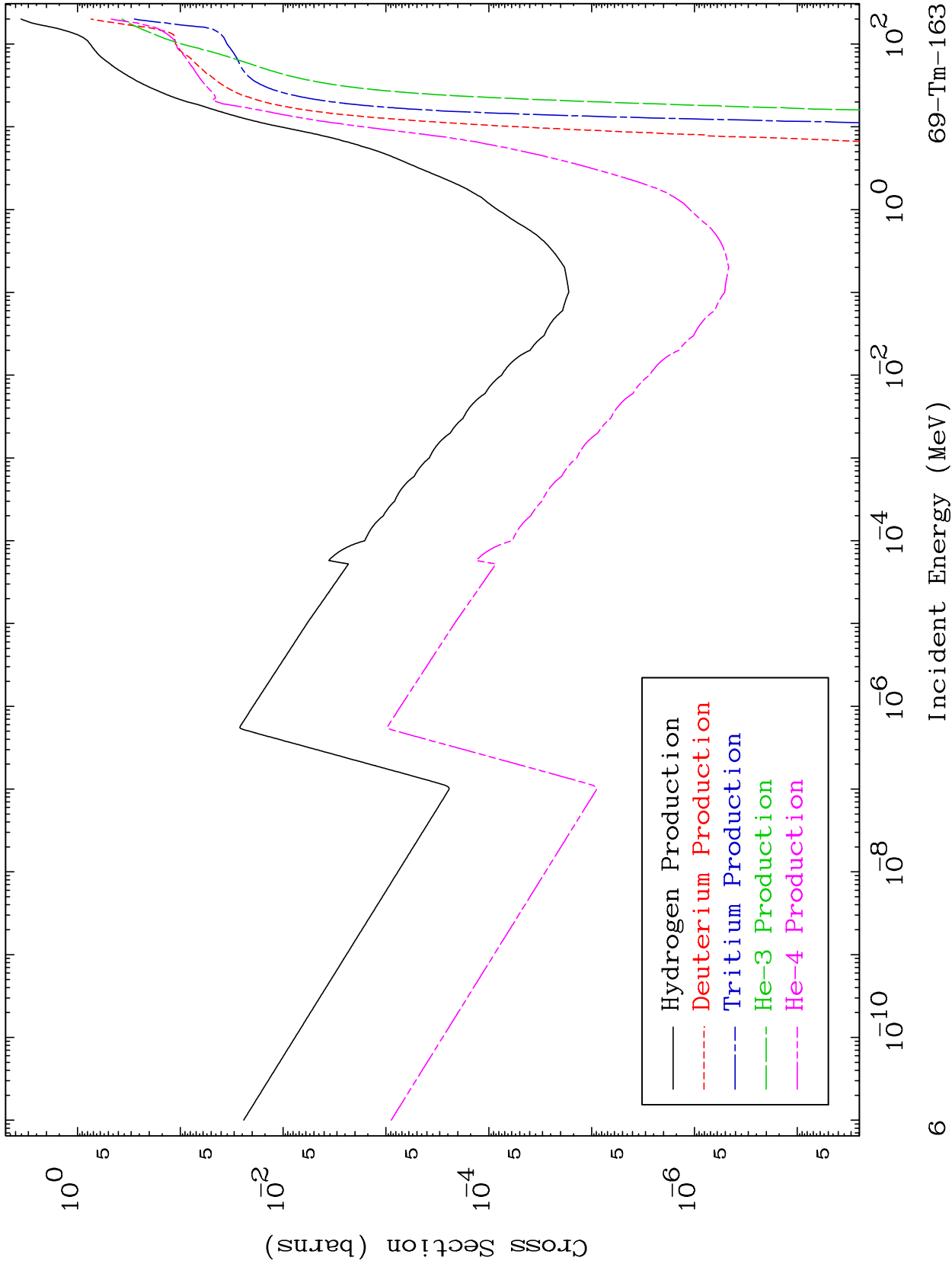


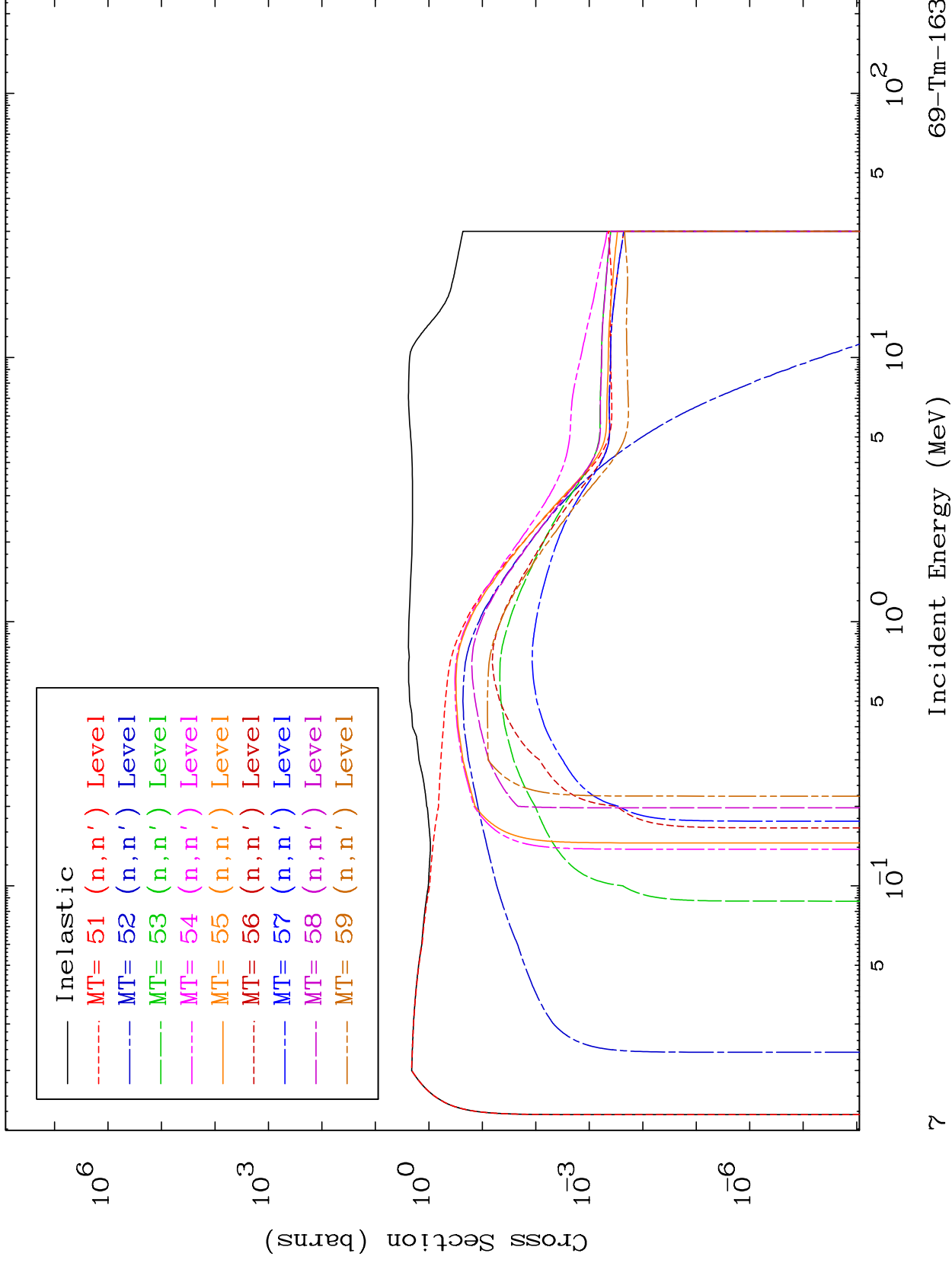
MAT 6907

Charged Particle
293 Kelvin Cross Sections

69-Tm-163





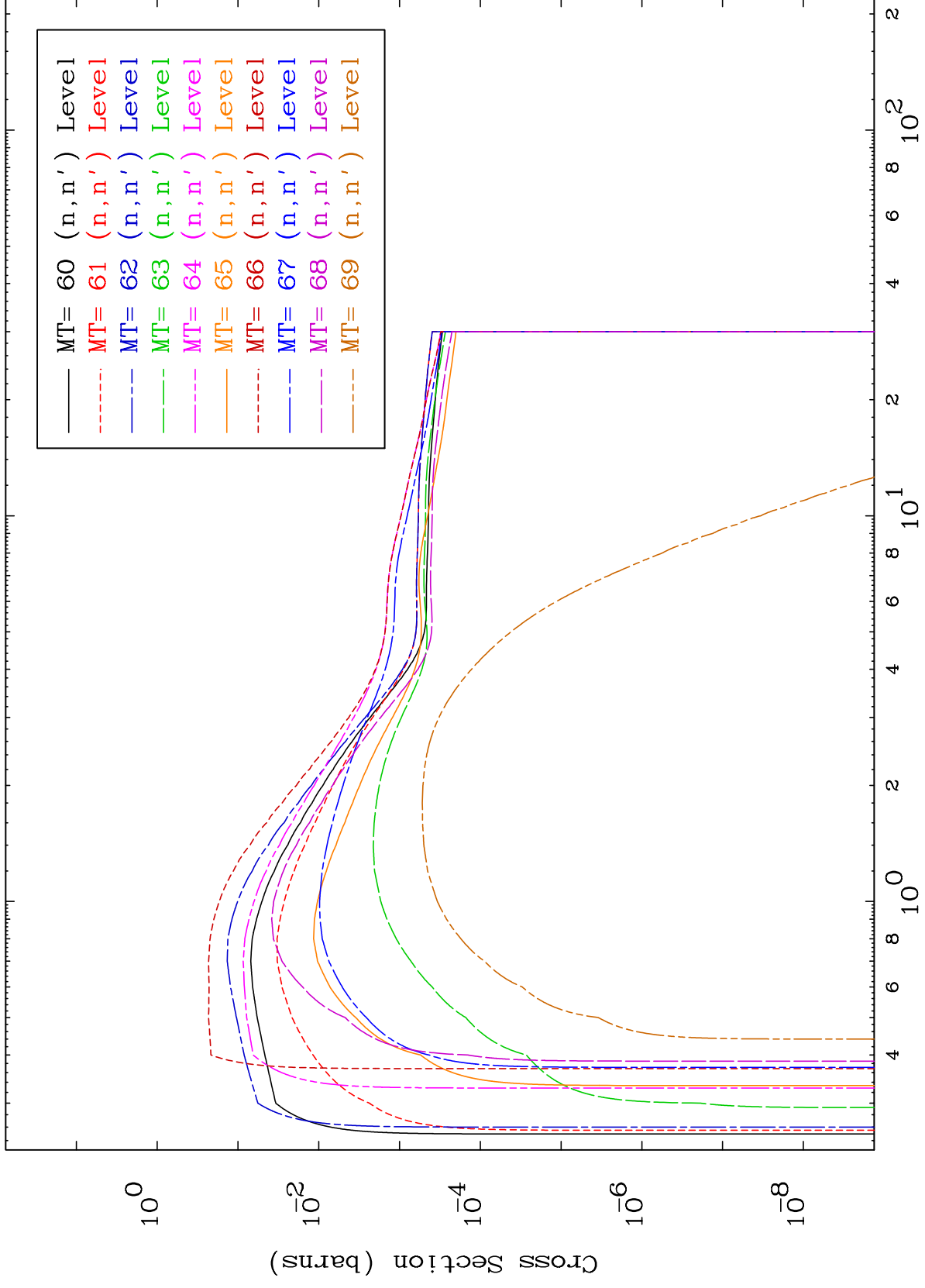


MAT 6907

(n,n') Level

69-Tm-163

293 Kelvin Cross Sections



8

Incident Energy (MeV)

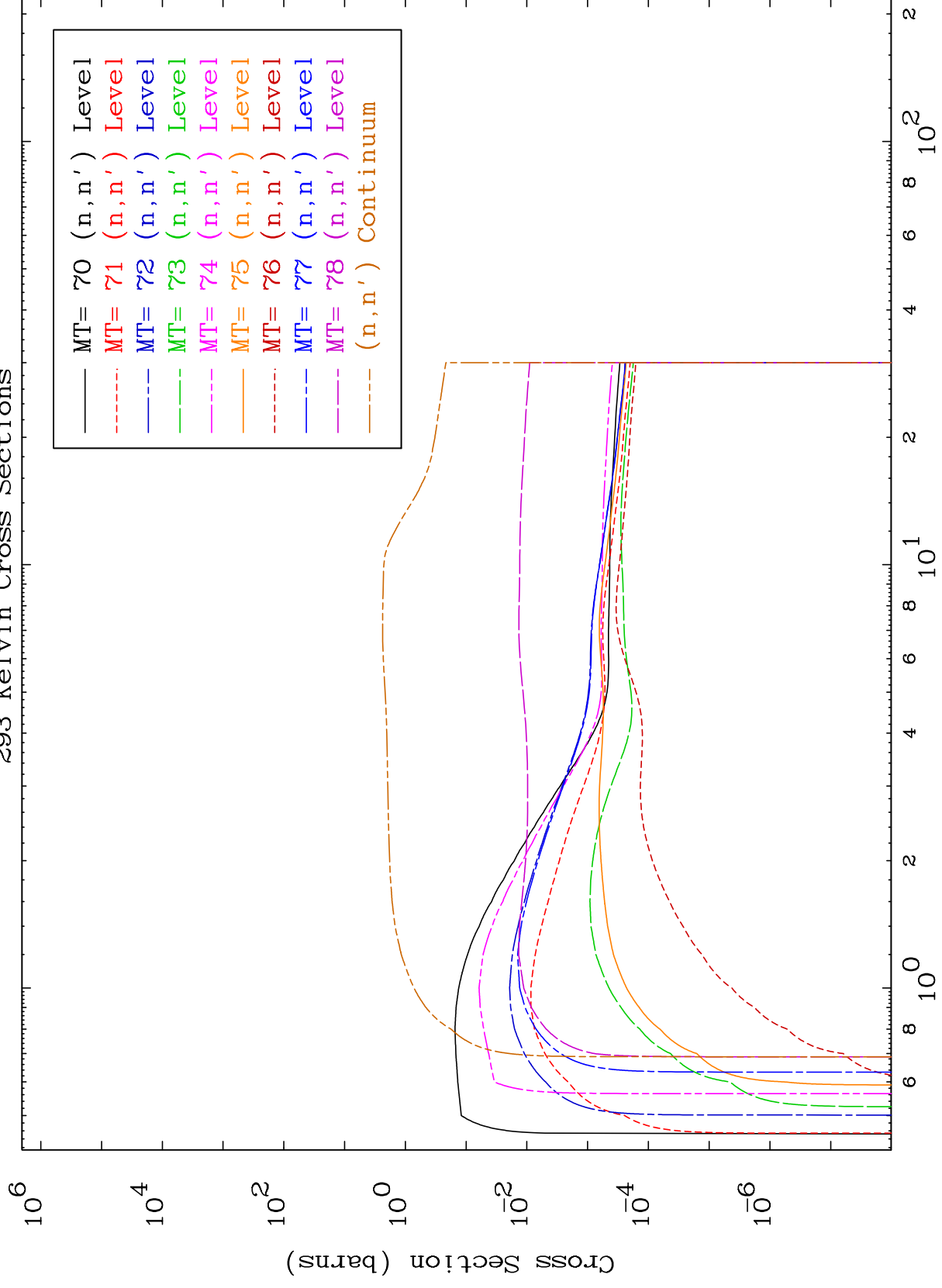
69-Tm-163

MAT 6907

(n,n') Level

69-Tm-163

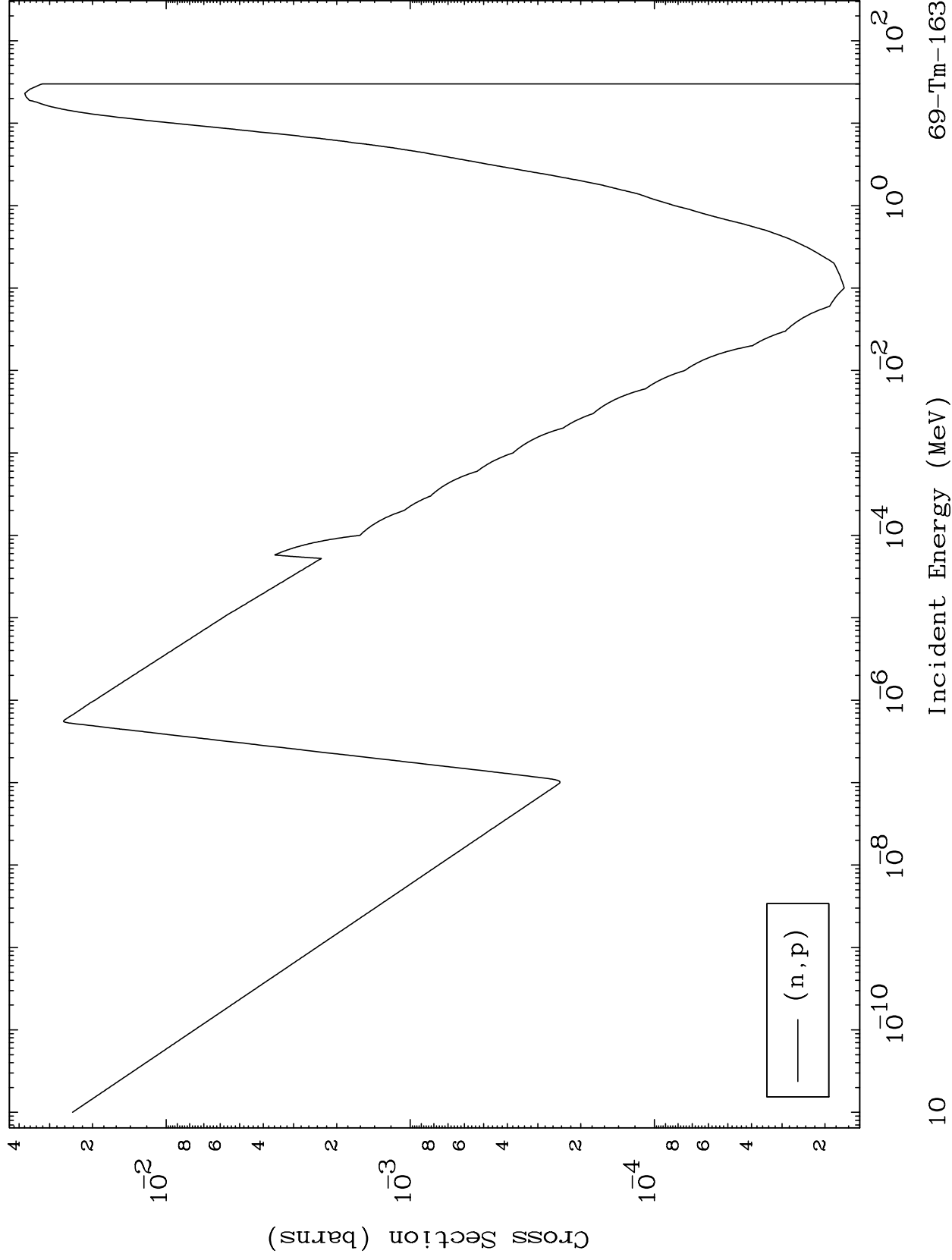
293 Kelvin Cross Sections



MAT 6907

(n,p) Levels
293 Kelvin Cross Sections

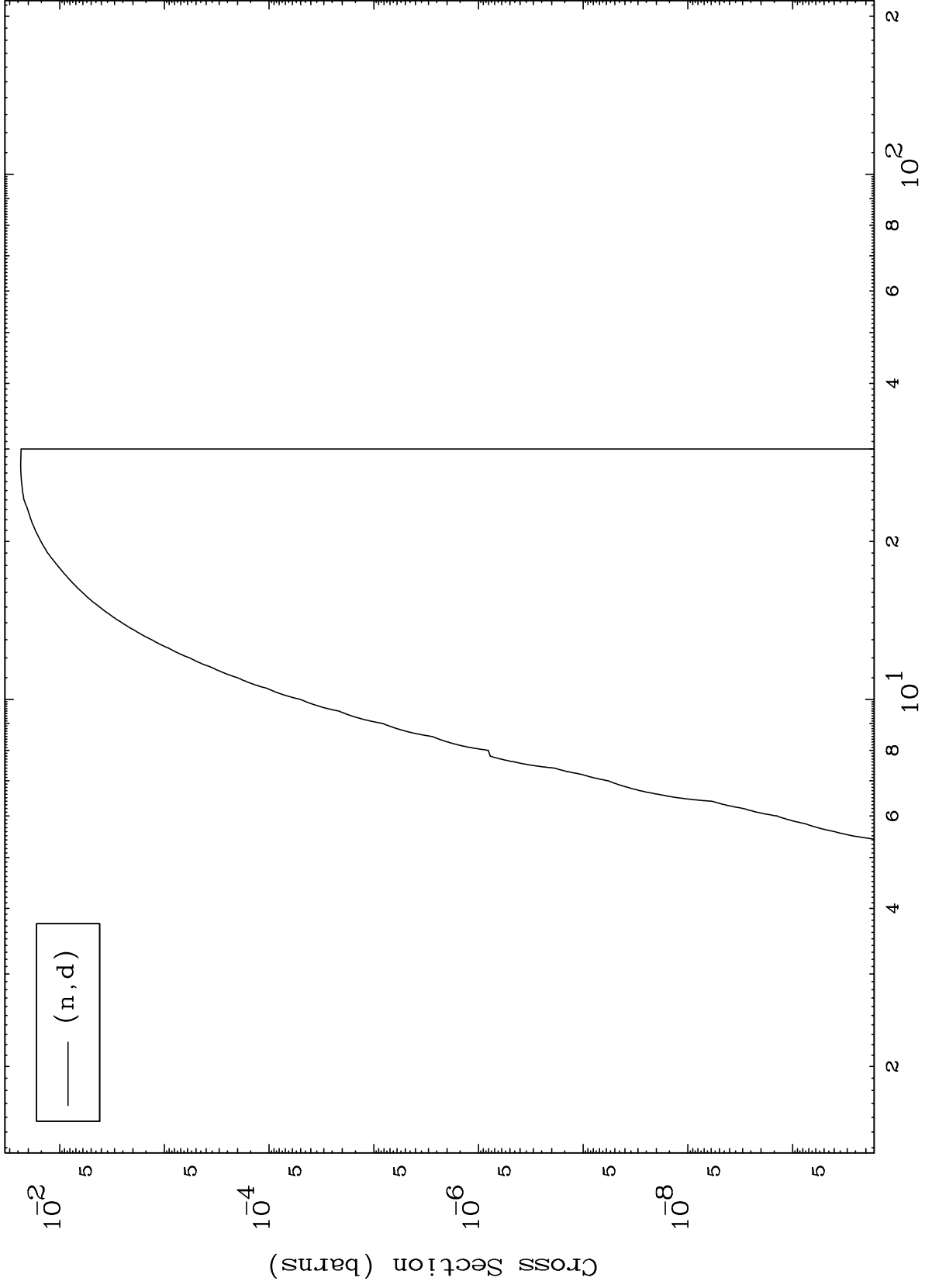
69-Tm-163



MAT 6907

(n,d) Levels
293 Kelvin Cross Sections

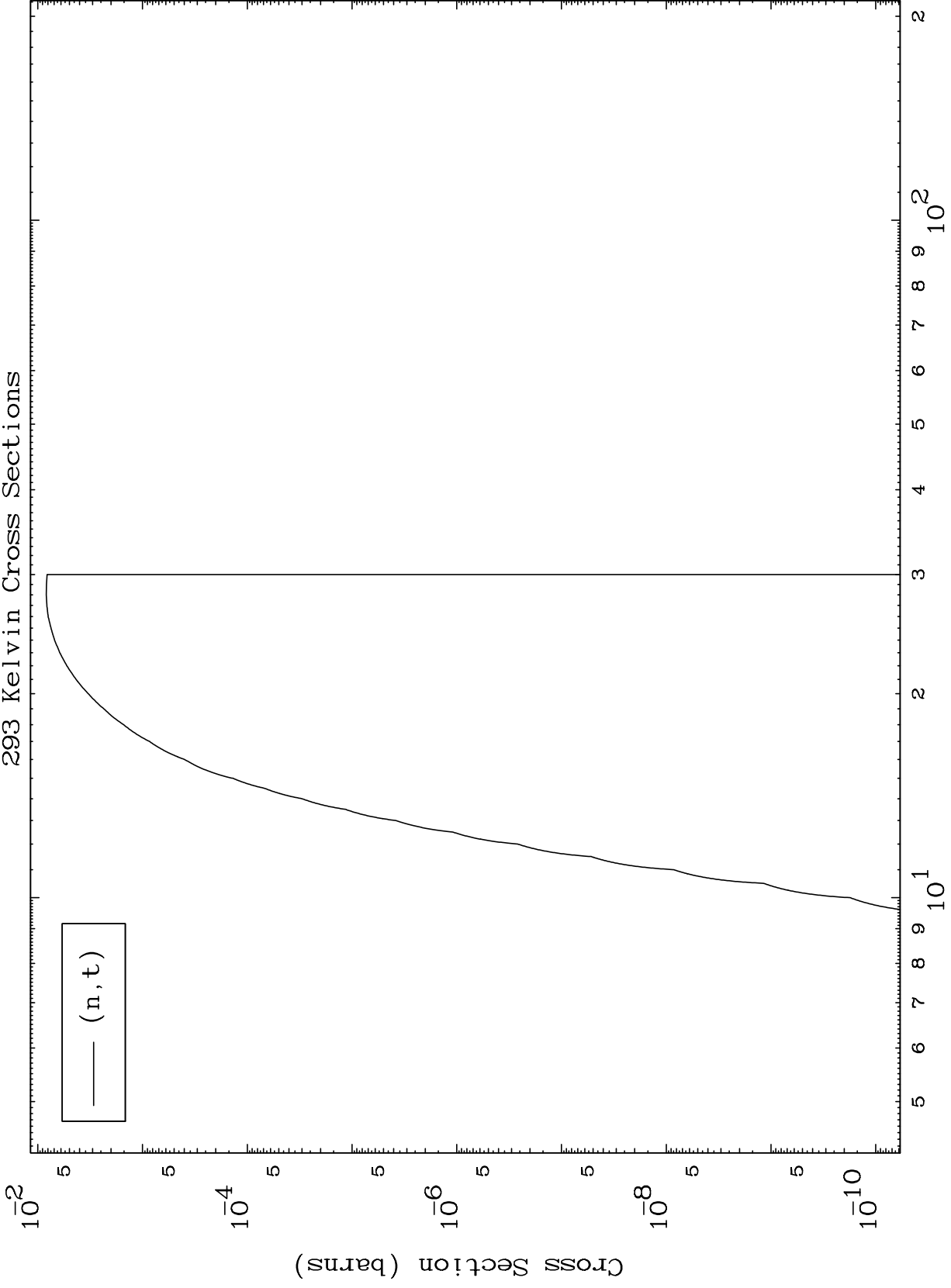
69-Tm-163



MAT 6907

(n,t) Levels
293 Kelvin Cross Sections

69-Tm-163



12

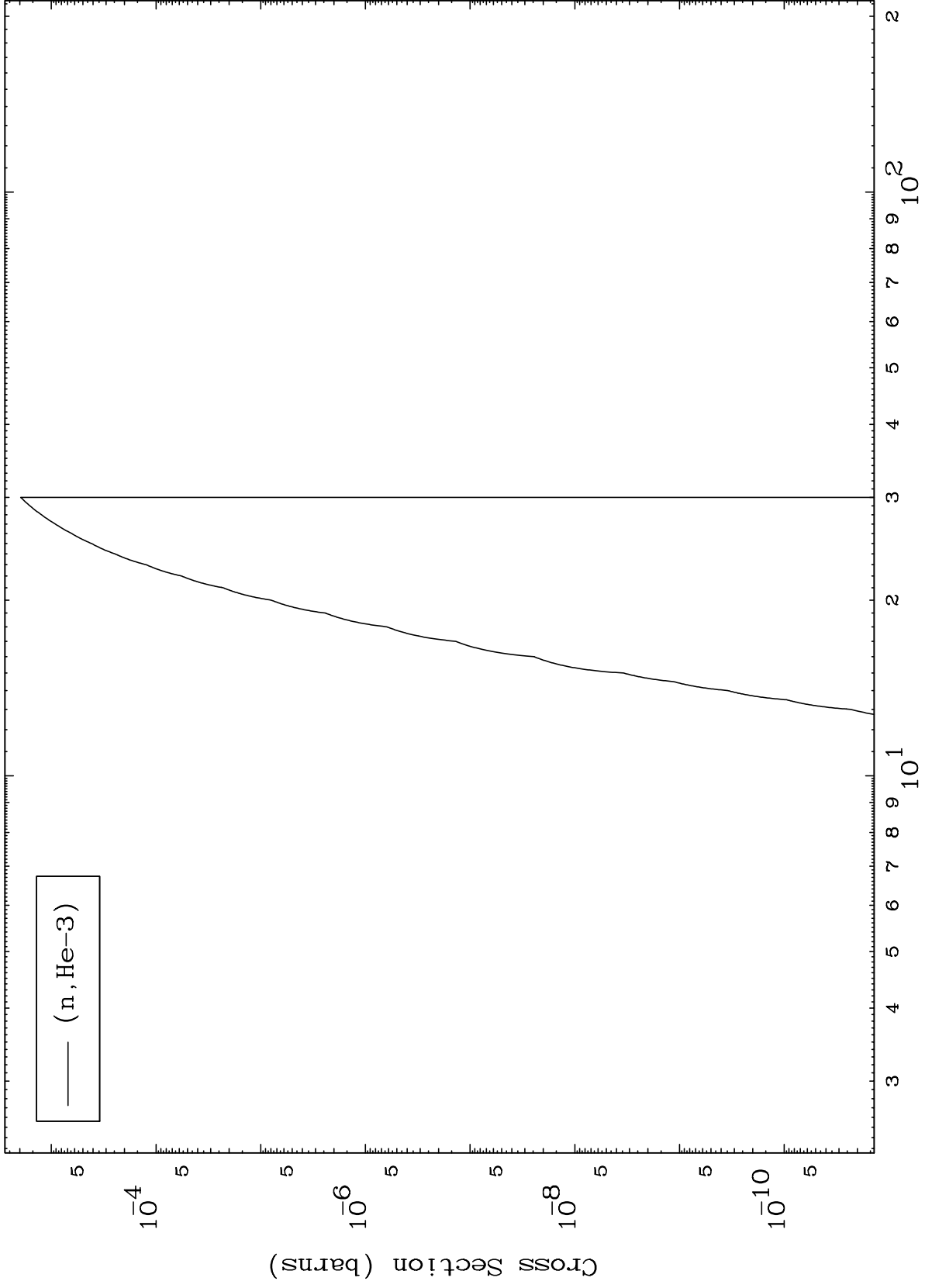
Incident Energy (MeV)

69-Tm-163

MAT 6907

(n,He3) Levels
293 Kelvin Cross Sections

69-Tm-163



13

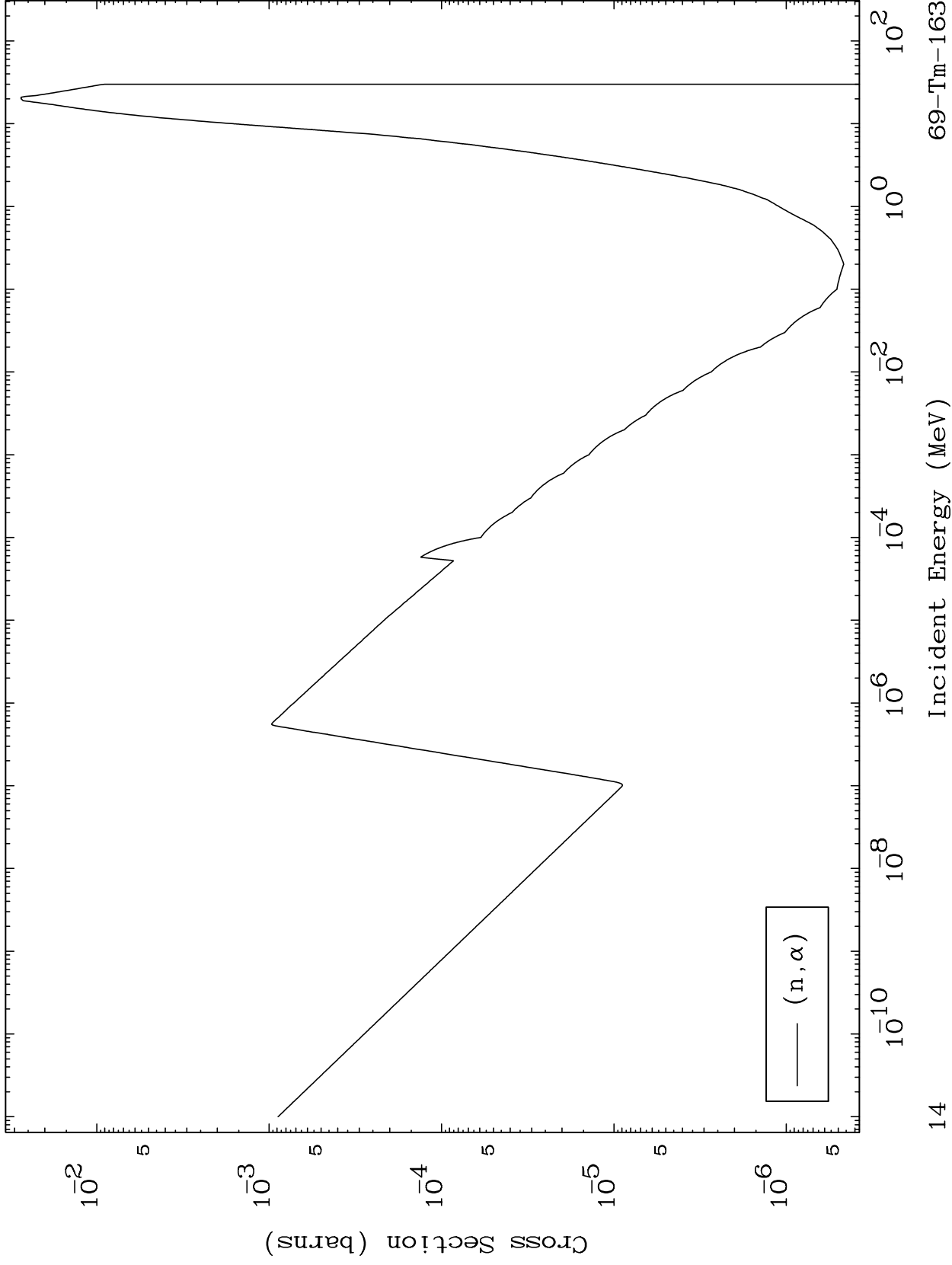
Incident Energy (MeV)

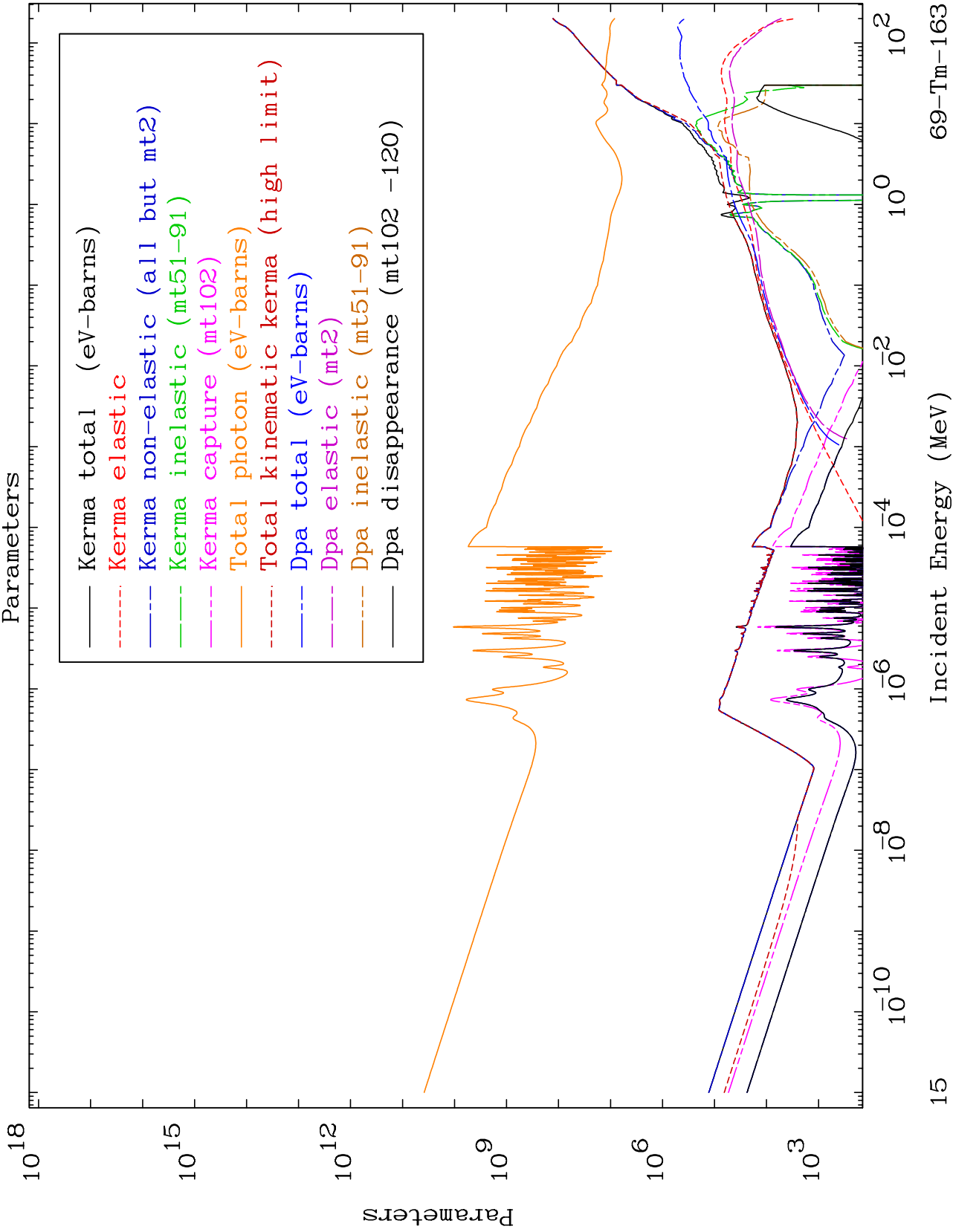
69-Tm-163

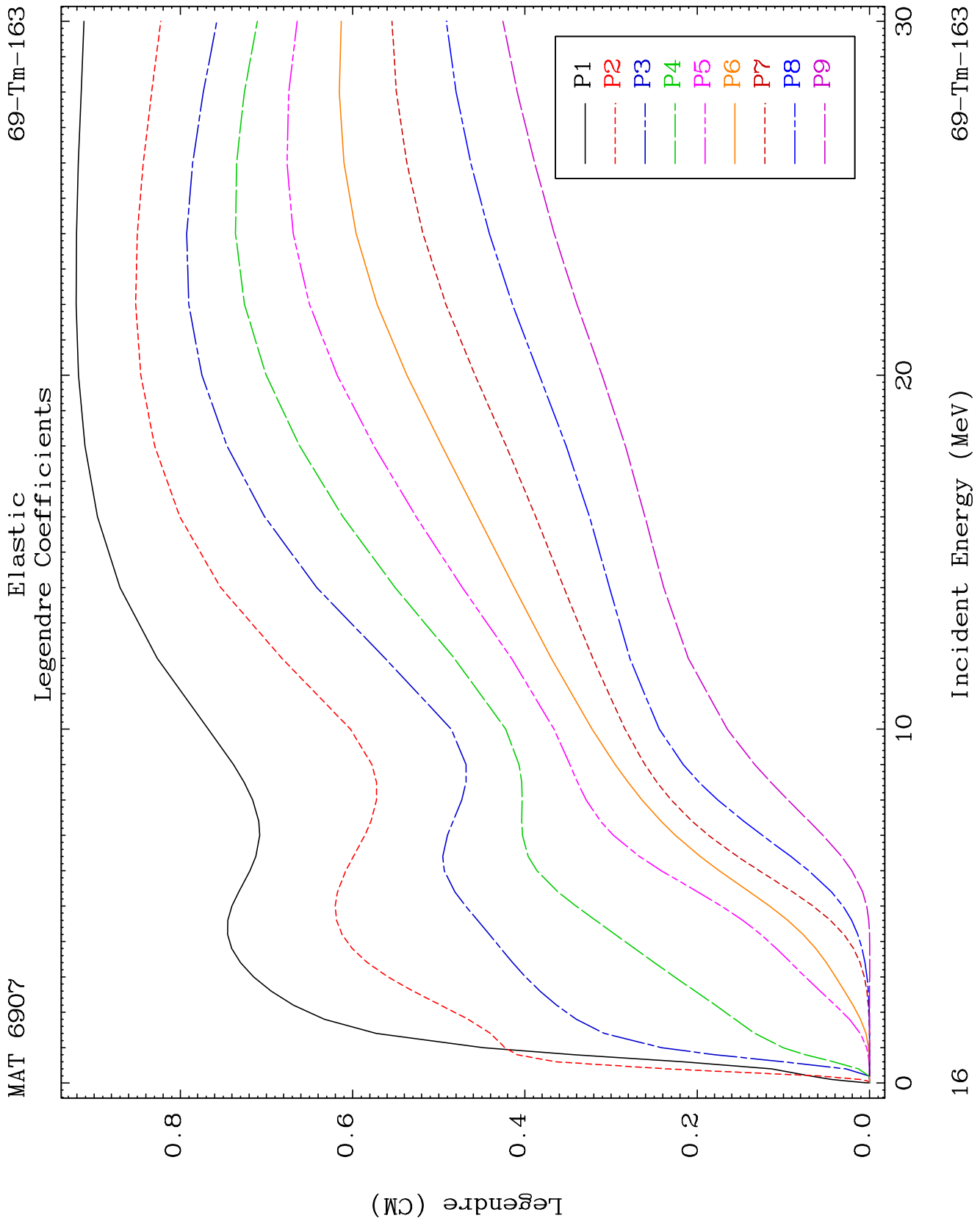
MAT 6907

(n, α) Levels
293 Kelvin Cross Sections

69-Tm-163



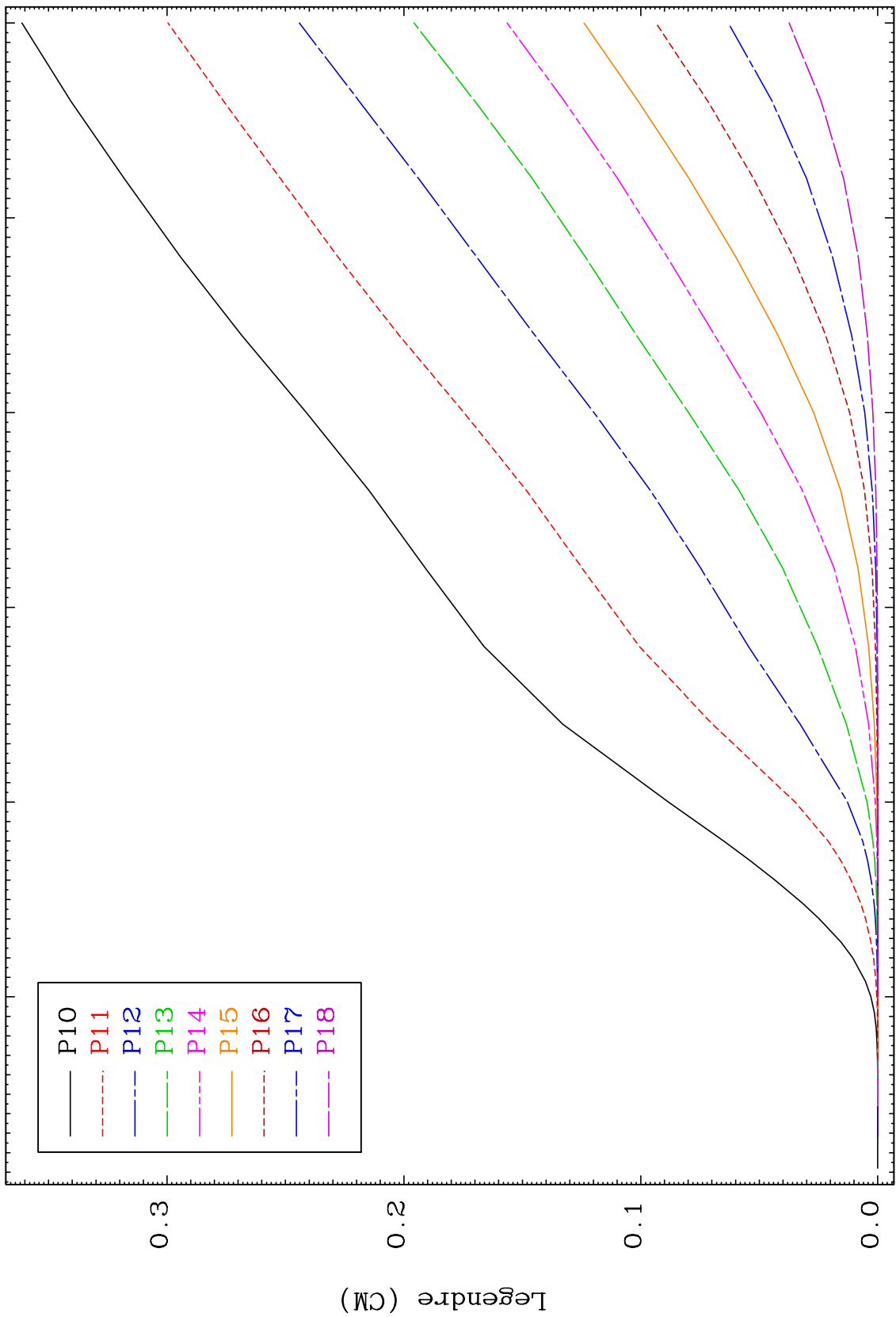




MAT 6907

Elastic Legendre Coefficients

69-Tm-163



17

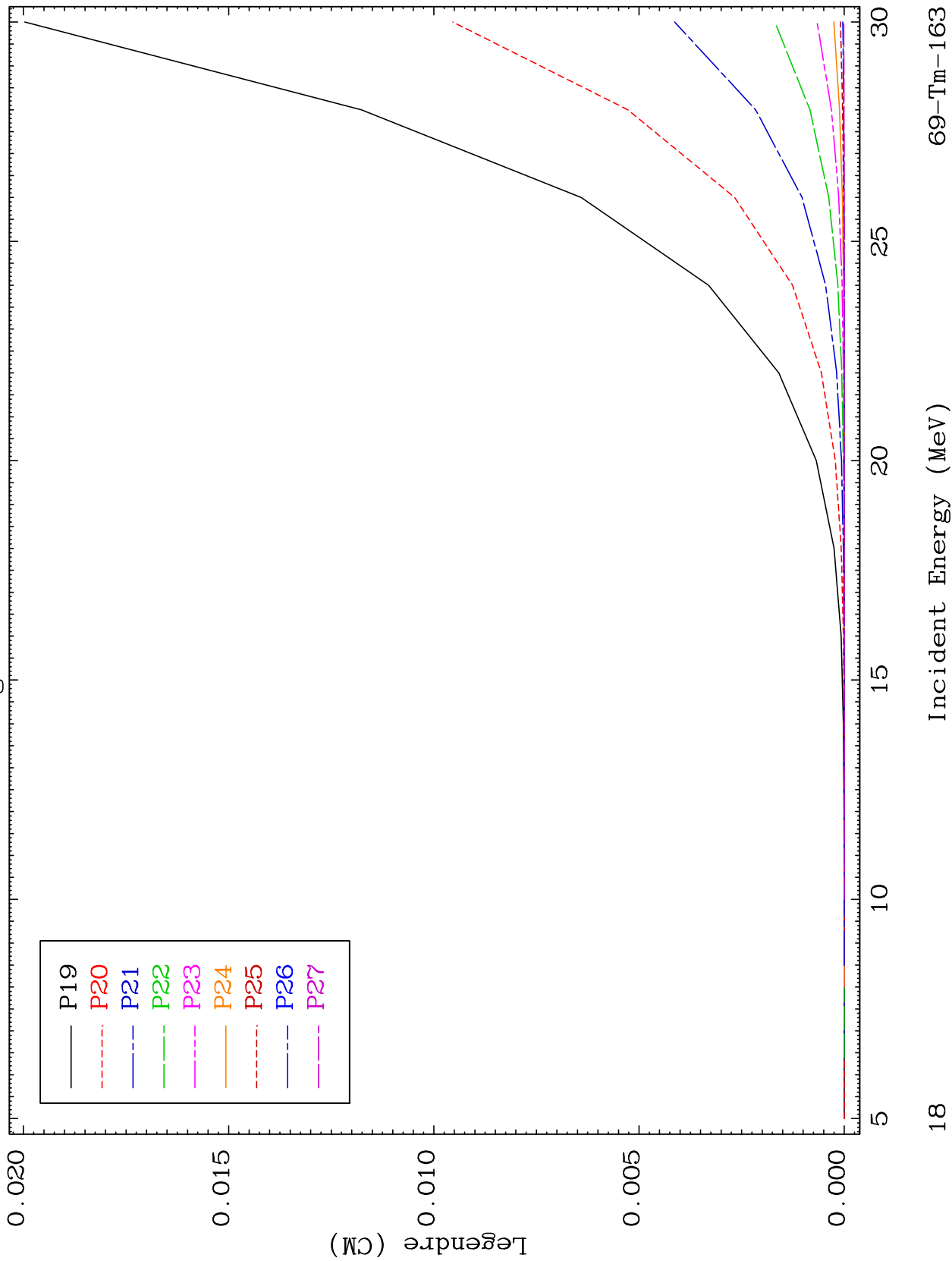
Incident Energy (MeV)

69-Tm-163

MAT 6907

Elastic Legendre Coefficients

69-Tm-163



18

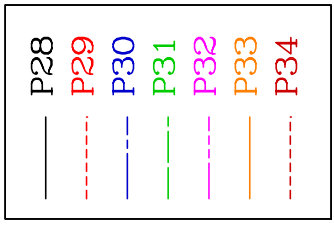
Incident Energy (MeV)

69-Tm-163

MAT 6907

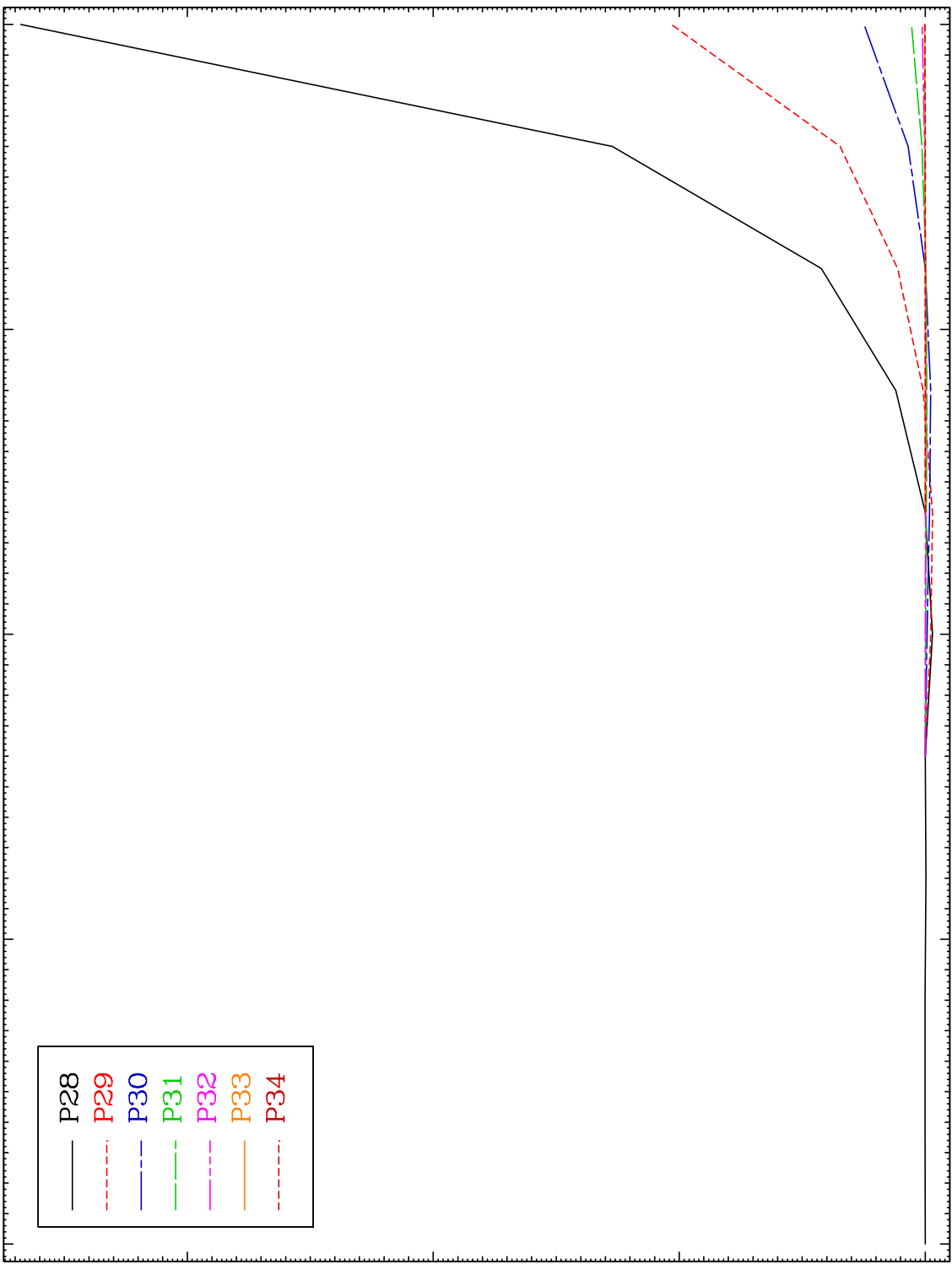
Elastic Legendre Coefficients

69-Tm-163



$\times 10^{-6}$

Legendre (CM)



30

25

20

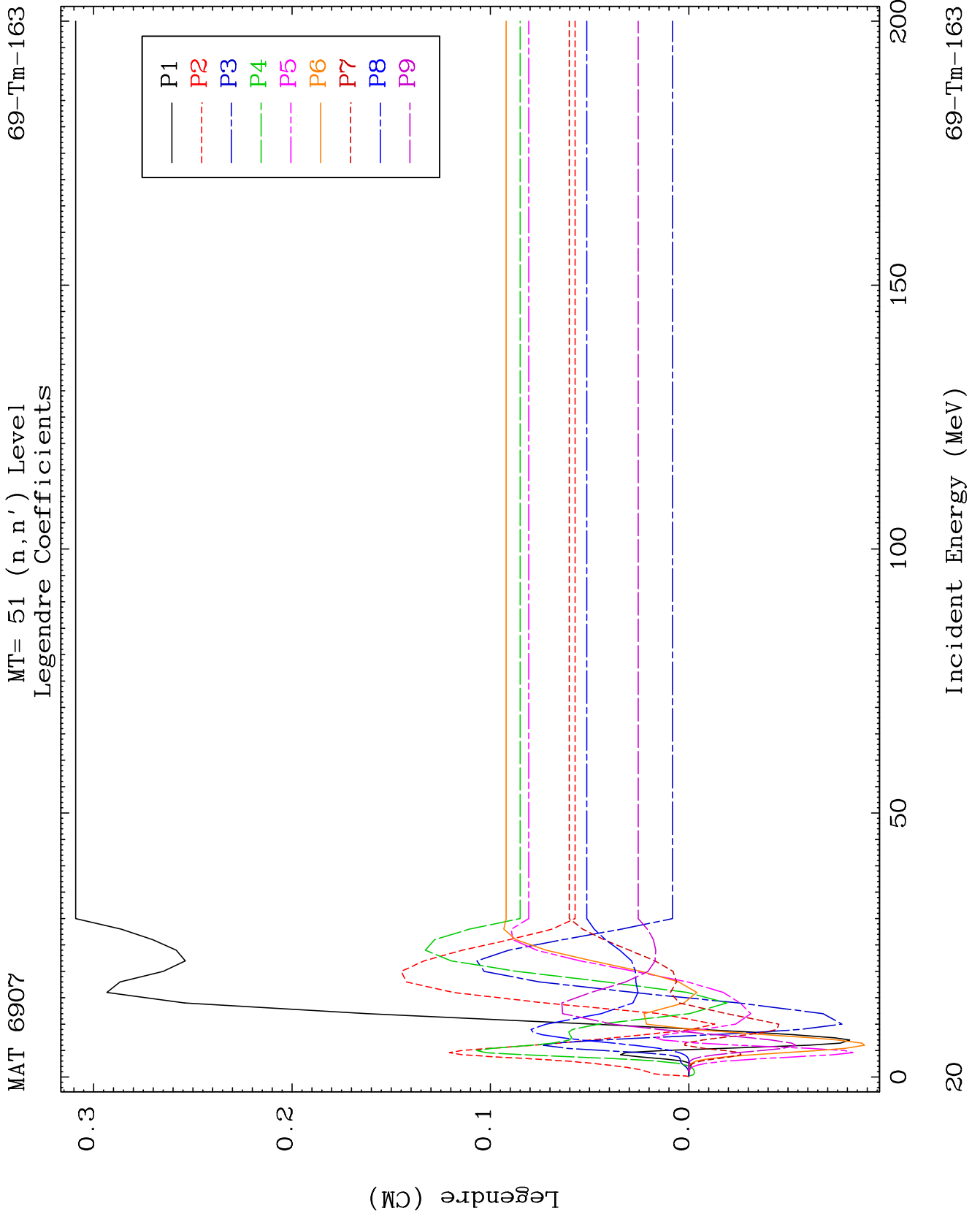
15

10

Incident Energy (MeV)

69-Tm-163

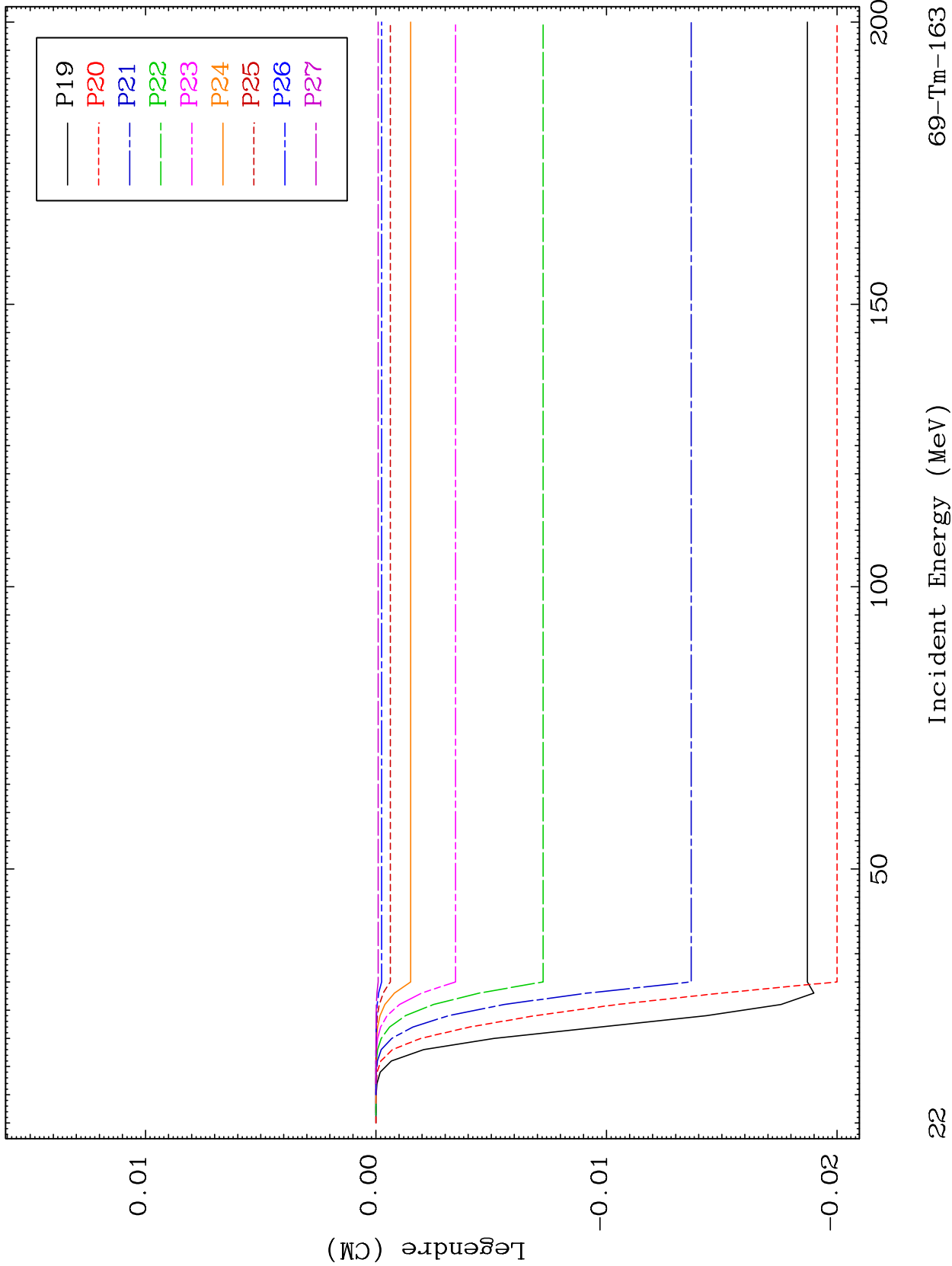
19



MAT 6907

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

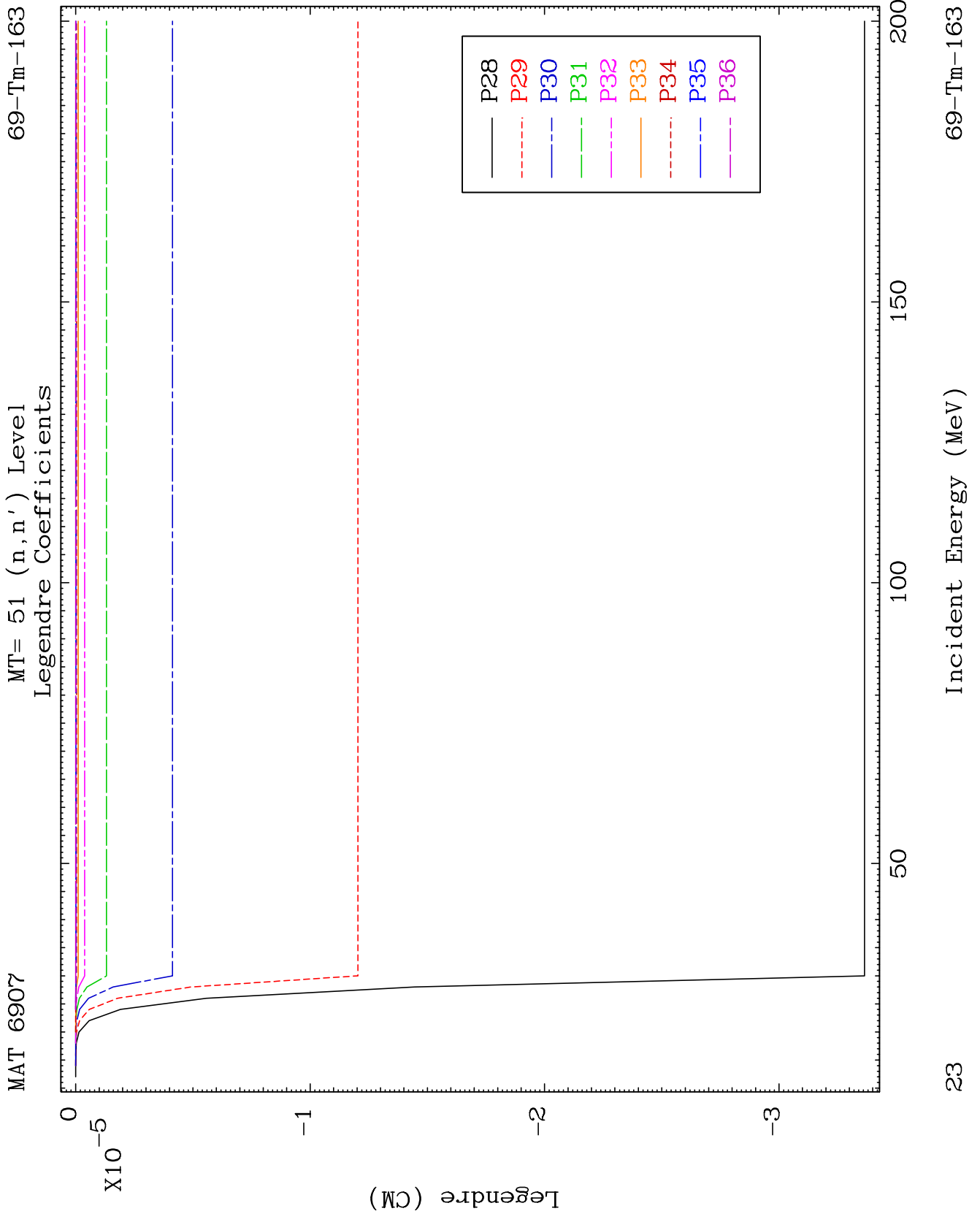
69-Tm-163



22

Incident Energy (MeV)

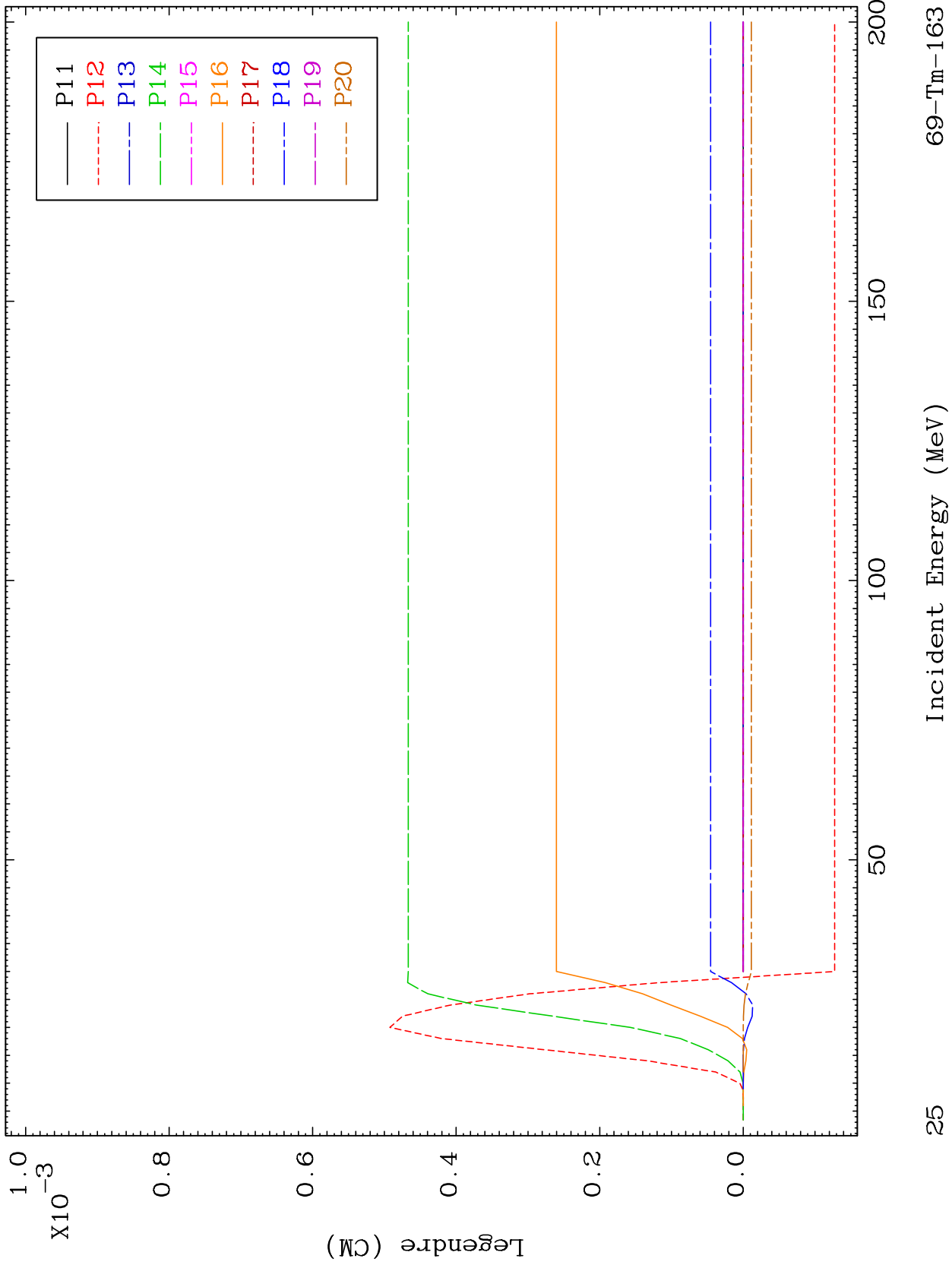
69-Tm-163



MAT 6907

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

69-Tm-163



25

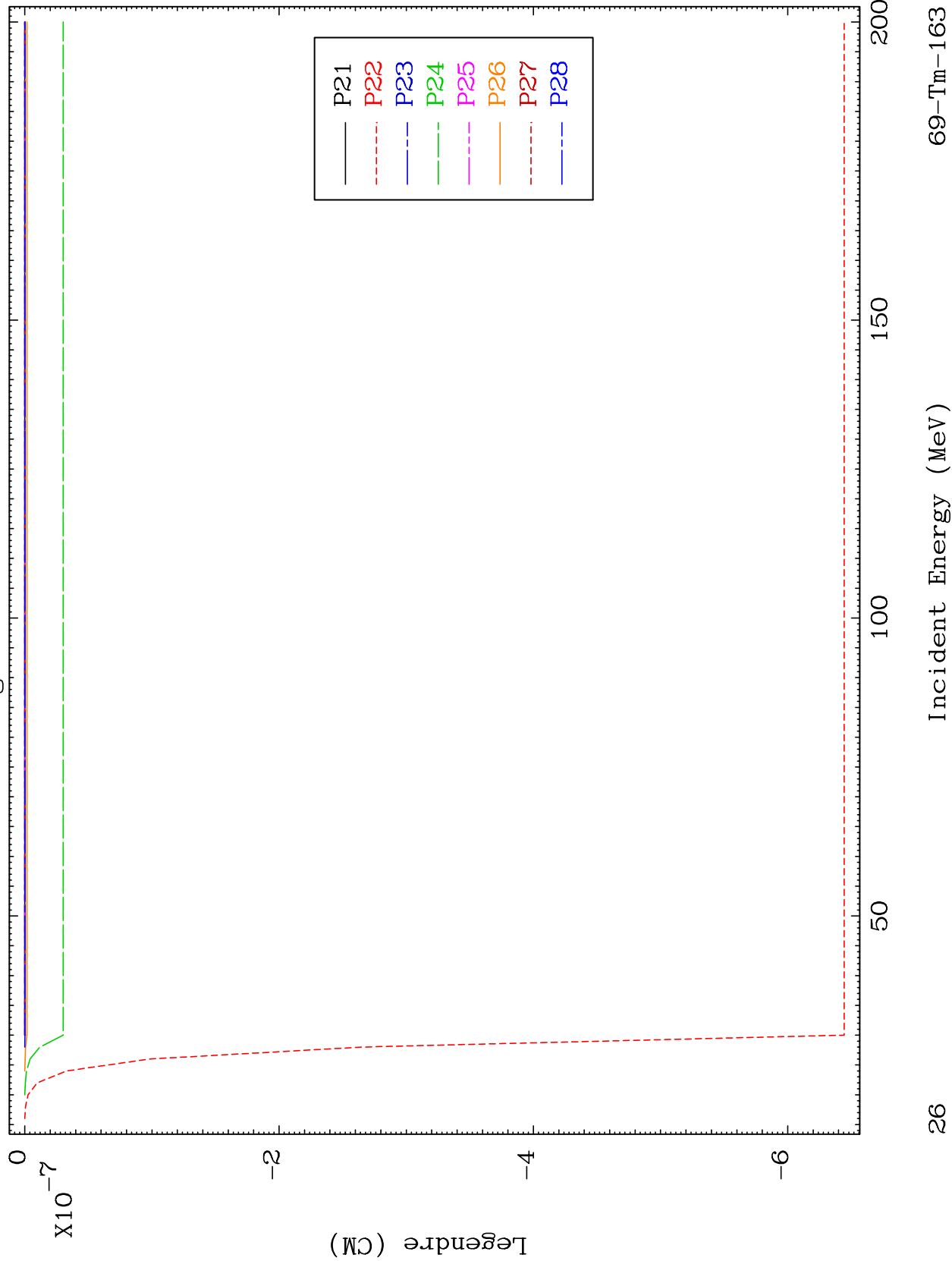
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



26

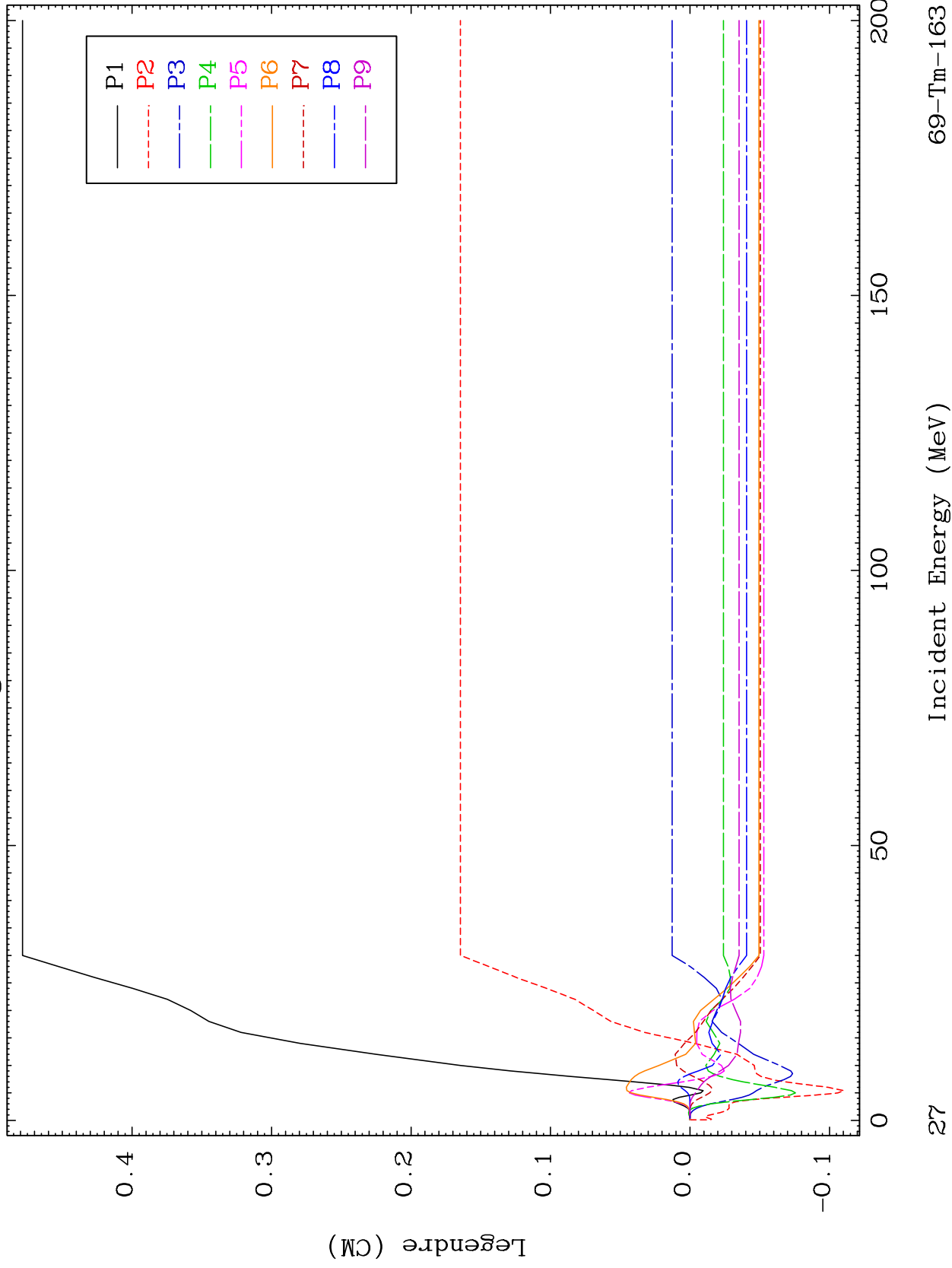
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



27

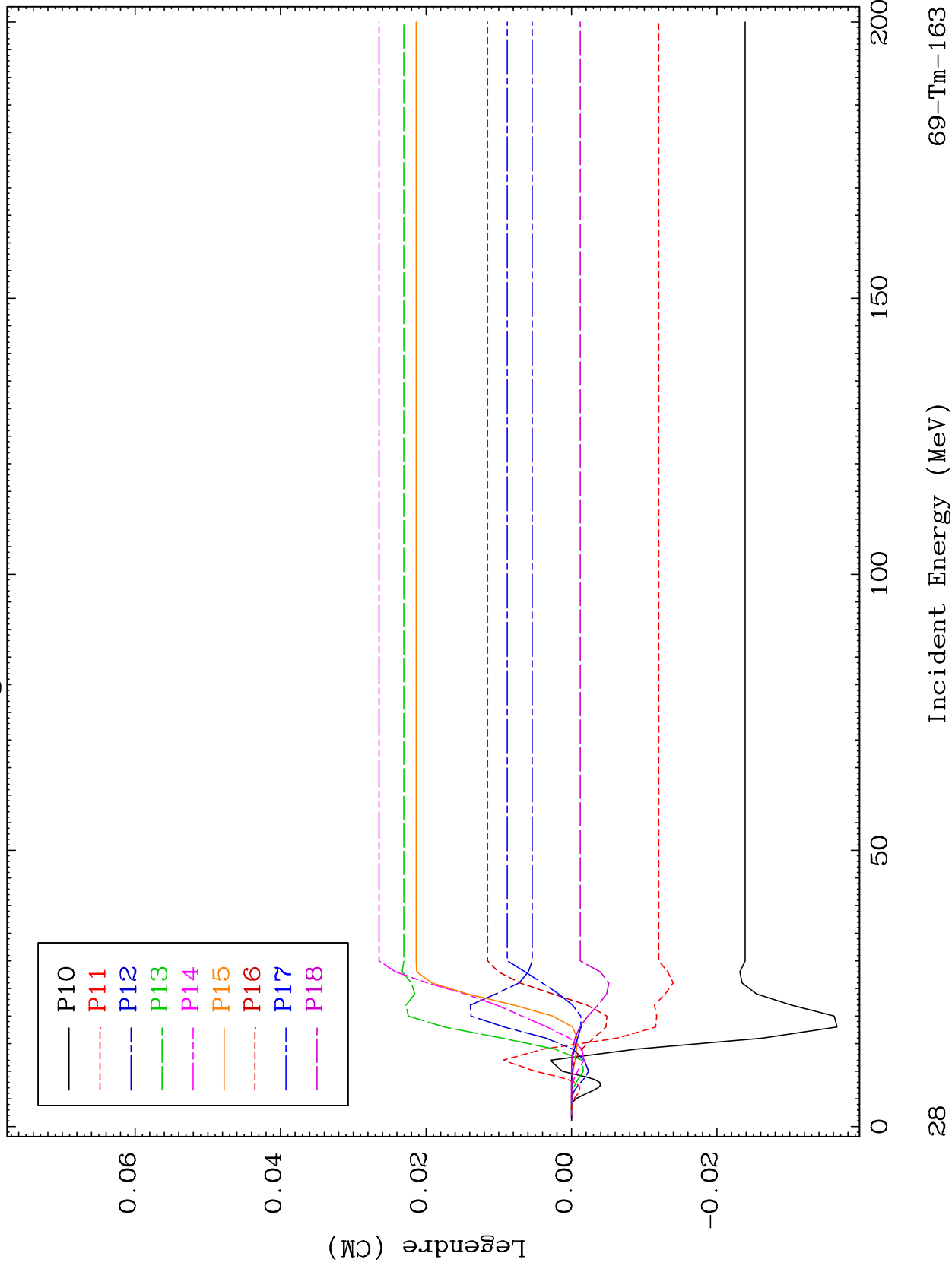
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

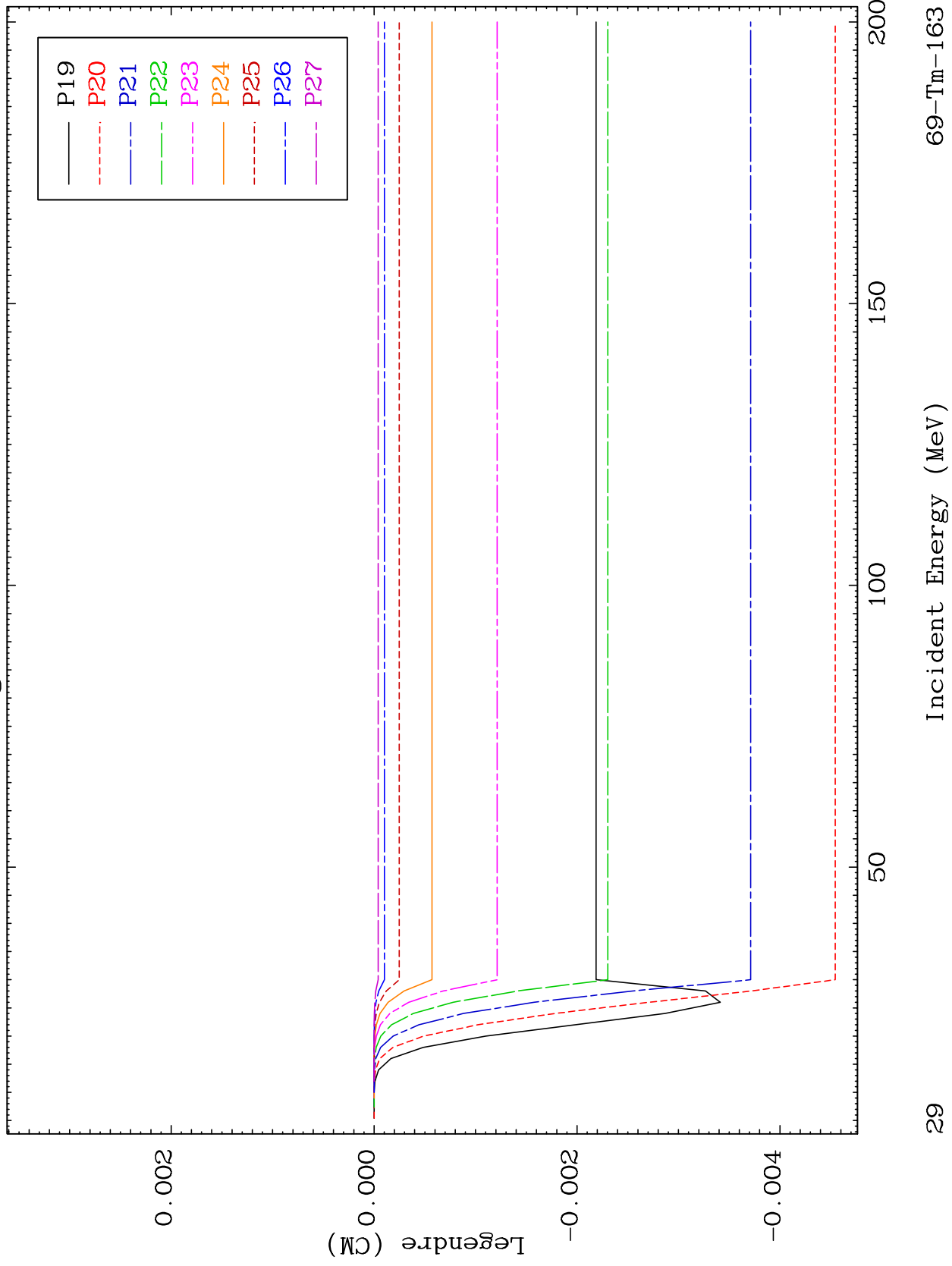
69-Tm-163



28

Incident Energy (MeV)

69-Tm-163

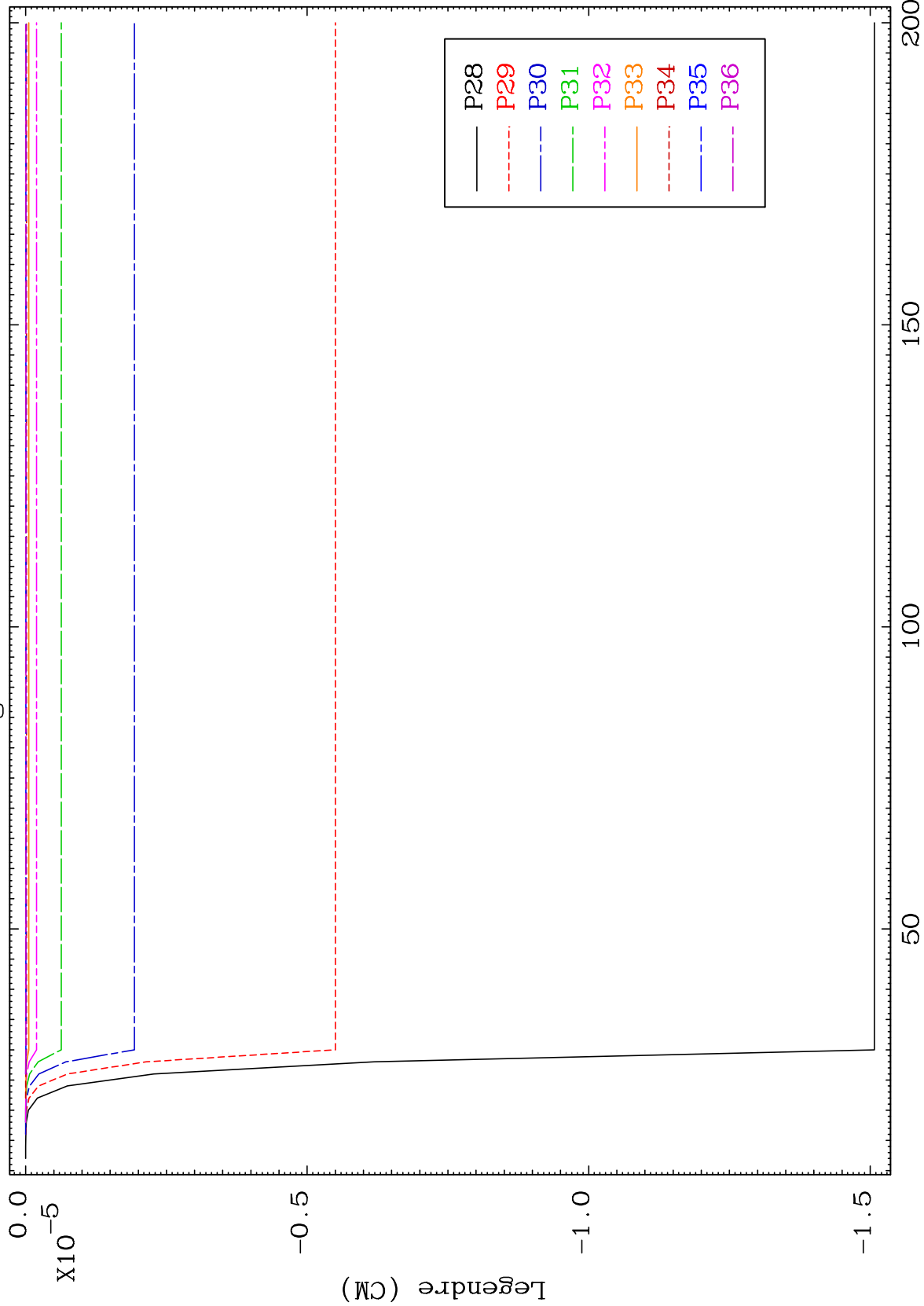


MAT 6907

MT= 53 (n,n') Level

69-Tm-163

Legendre Coefficients



69-Tm-163

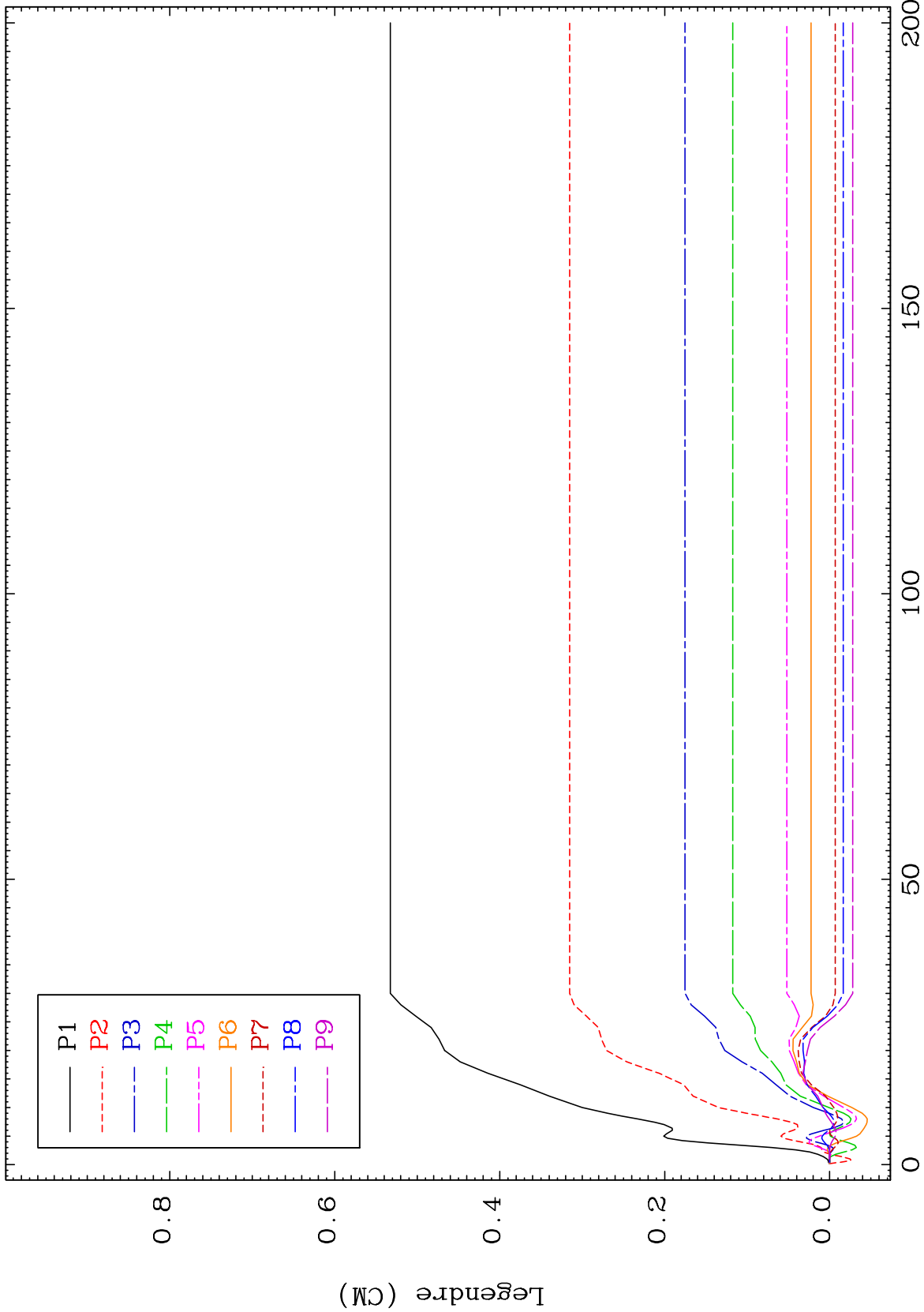
Incident Energy (MeV)

30

MAT 6907

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

69-Tm-163



31

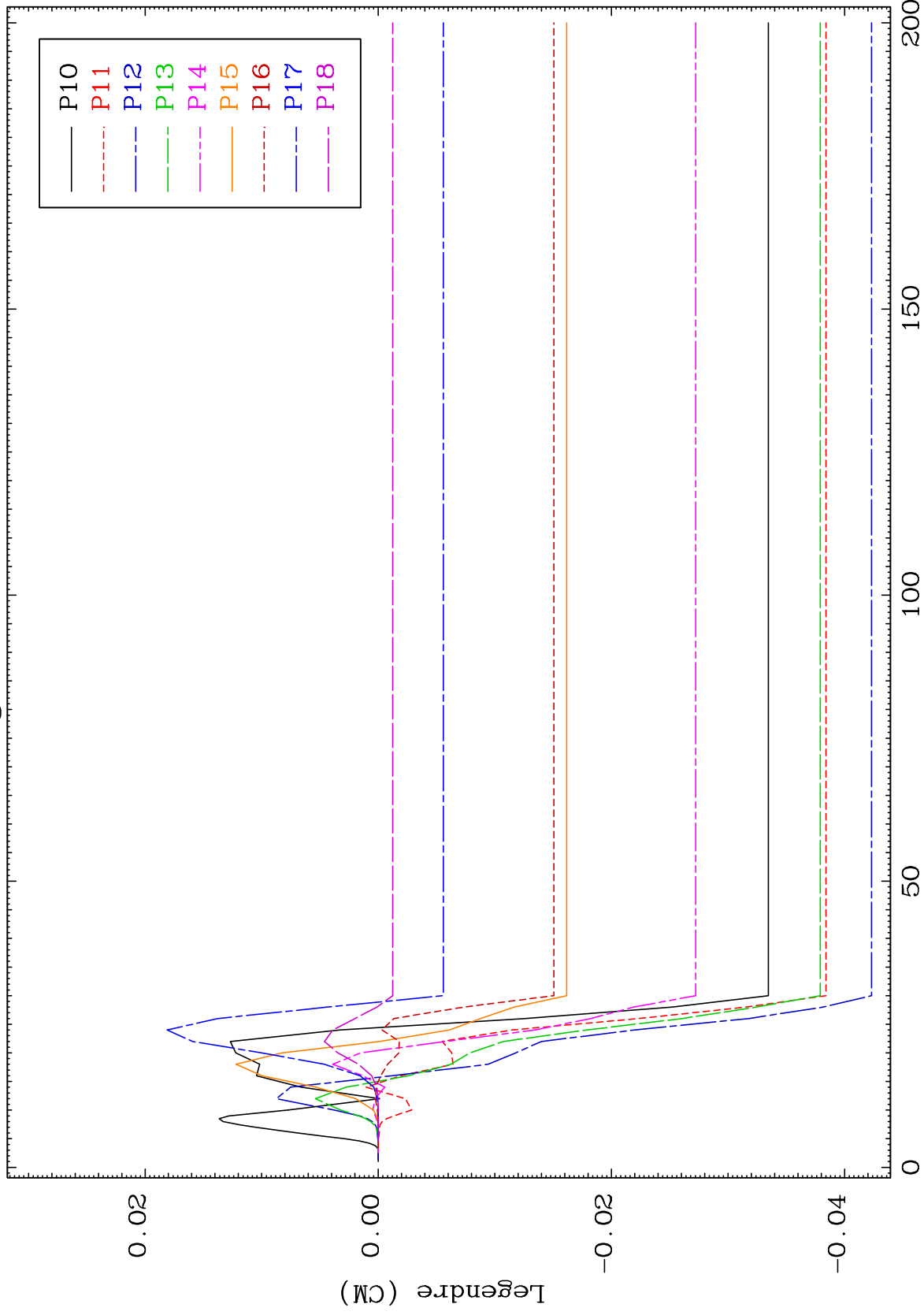
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

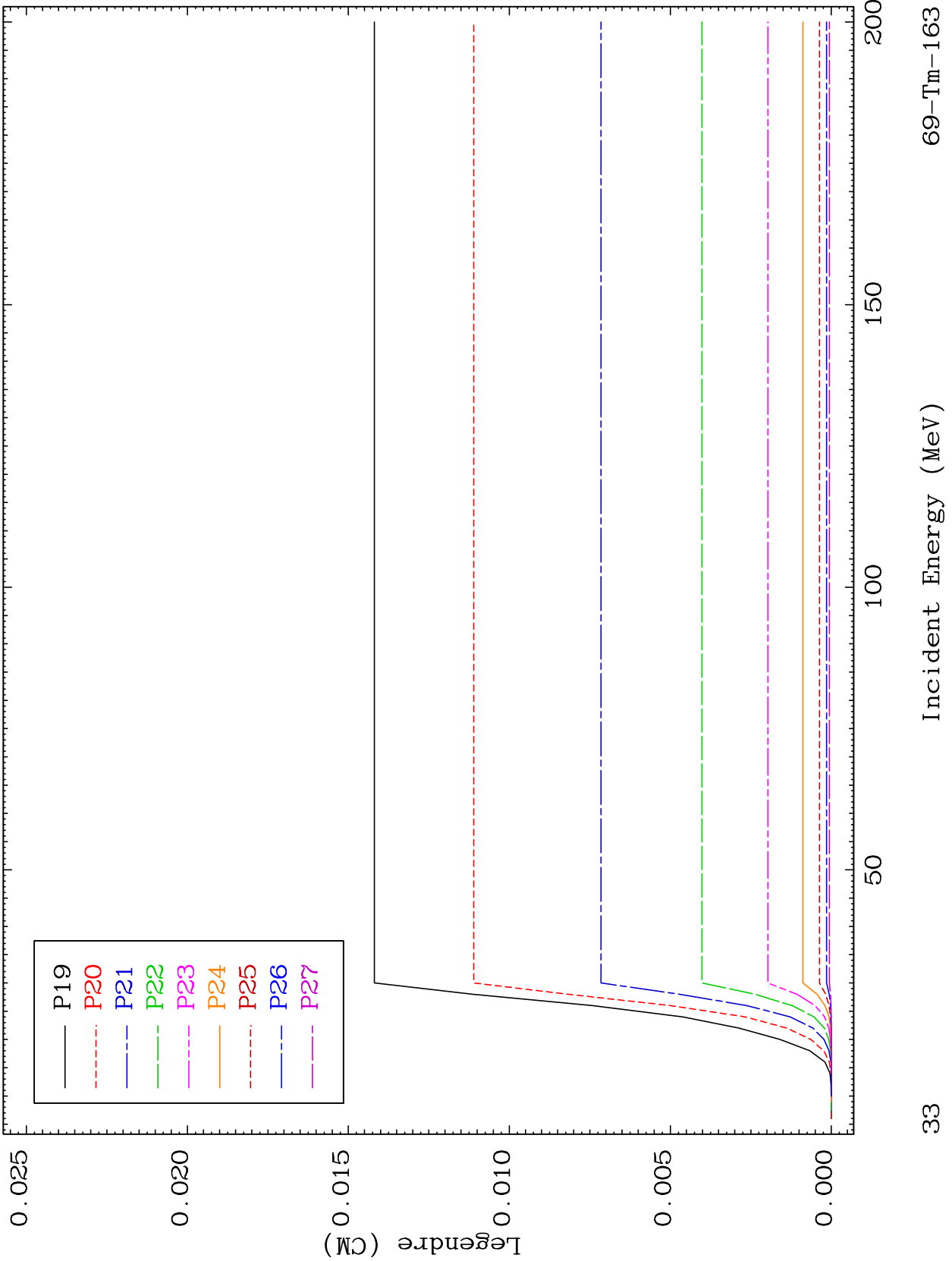
69-Tm-163



32

Incident Energy (MeV)

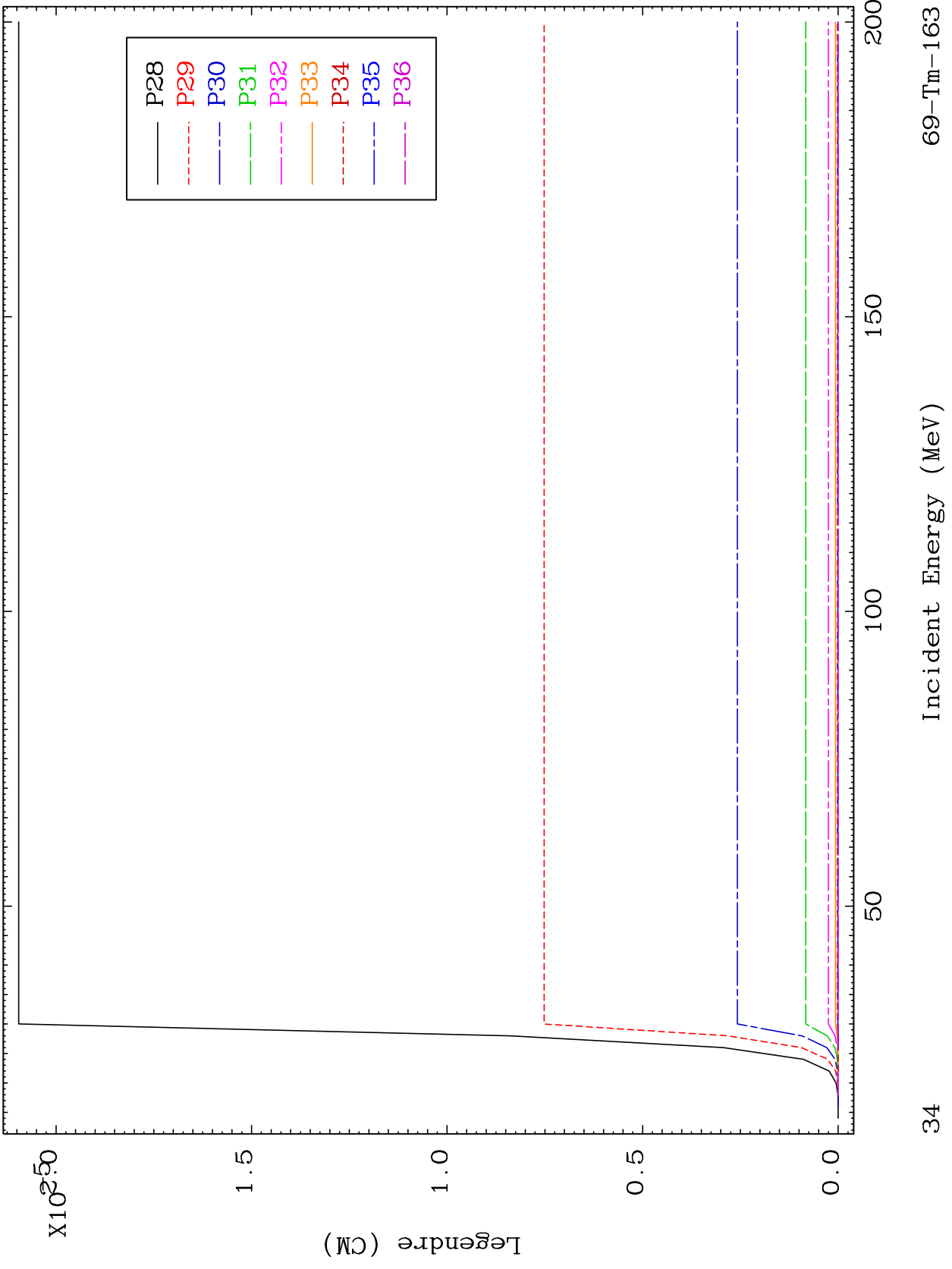
69-Tm-163



MAT 6907

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

69-Tm-163



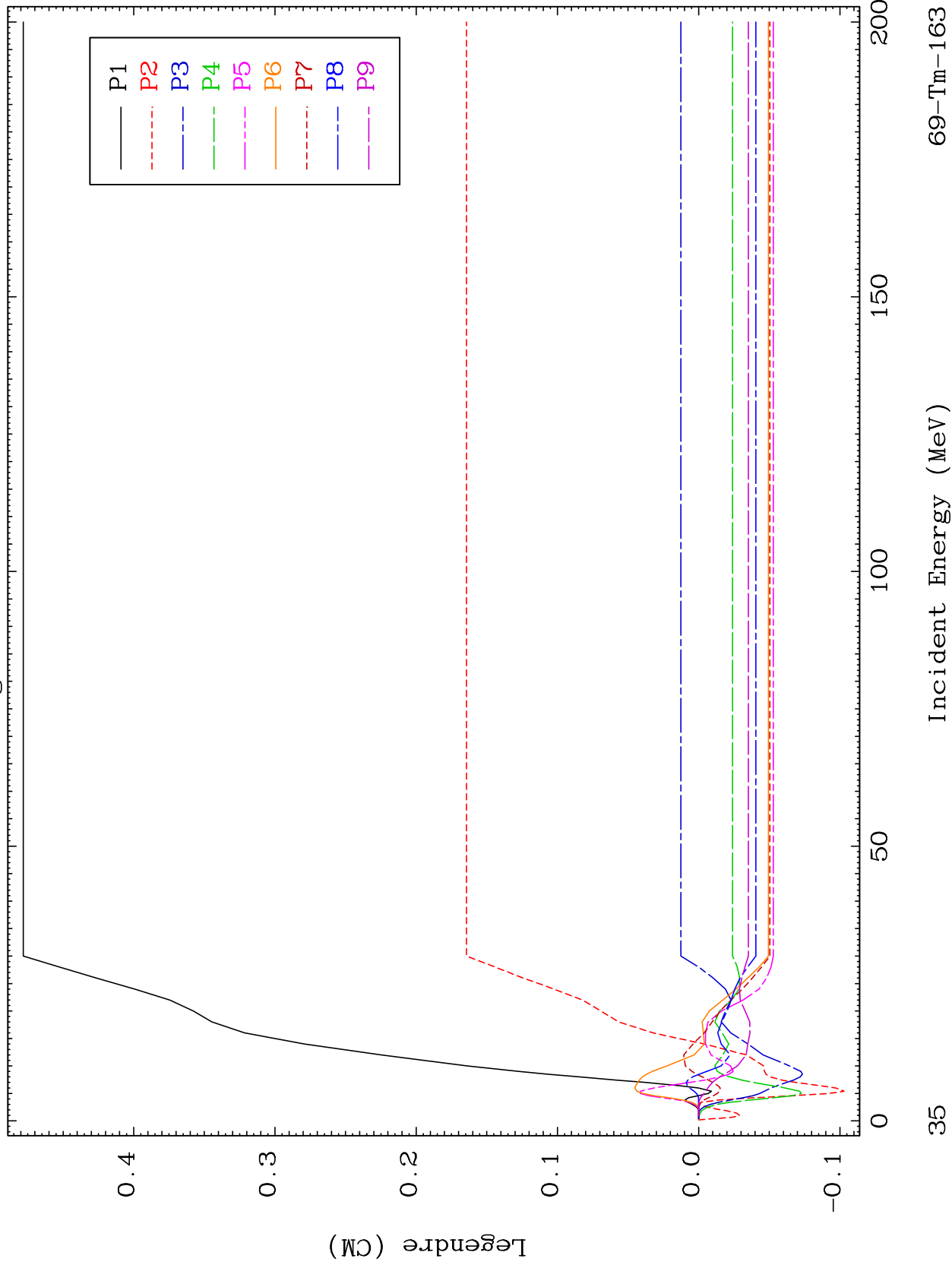
34

69-Tm-163

MAT 6907

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

69-Tm-163



69-Tm-163

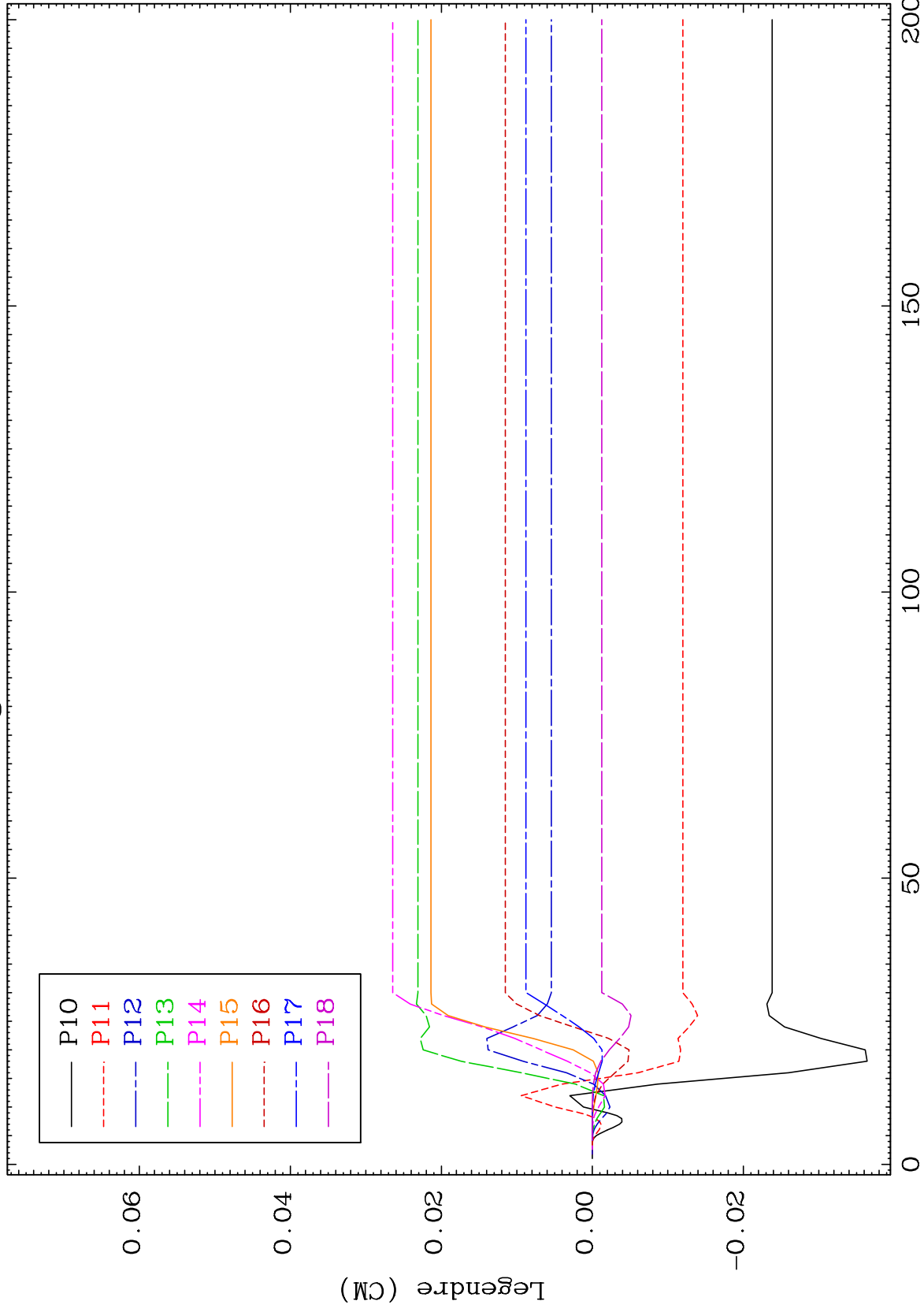
Incident Energy (MeV)

35

MAT 6907

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

69-Tm-163



36

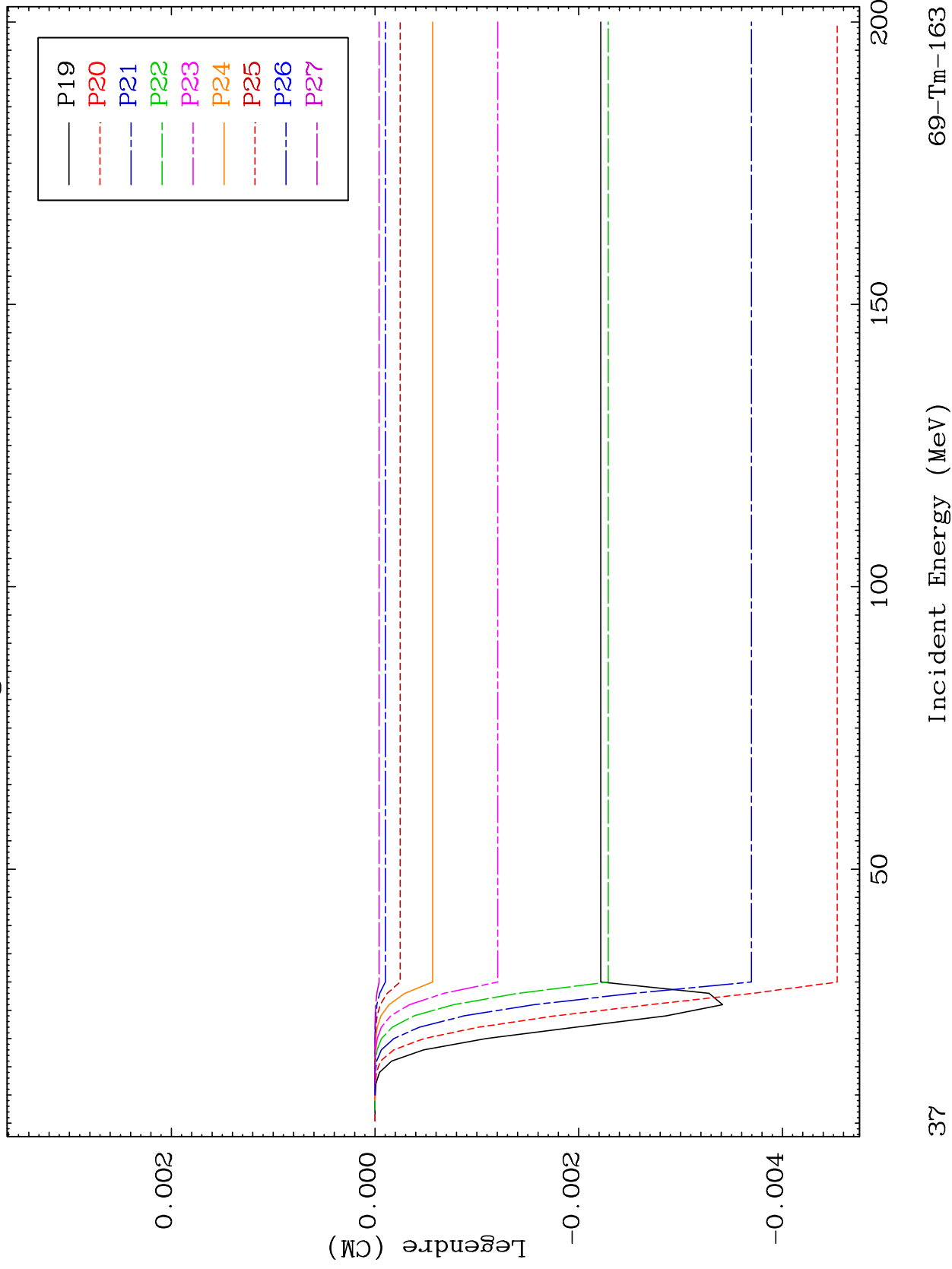
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



37

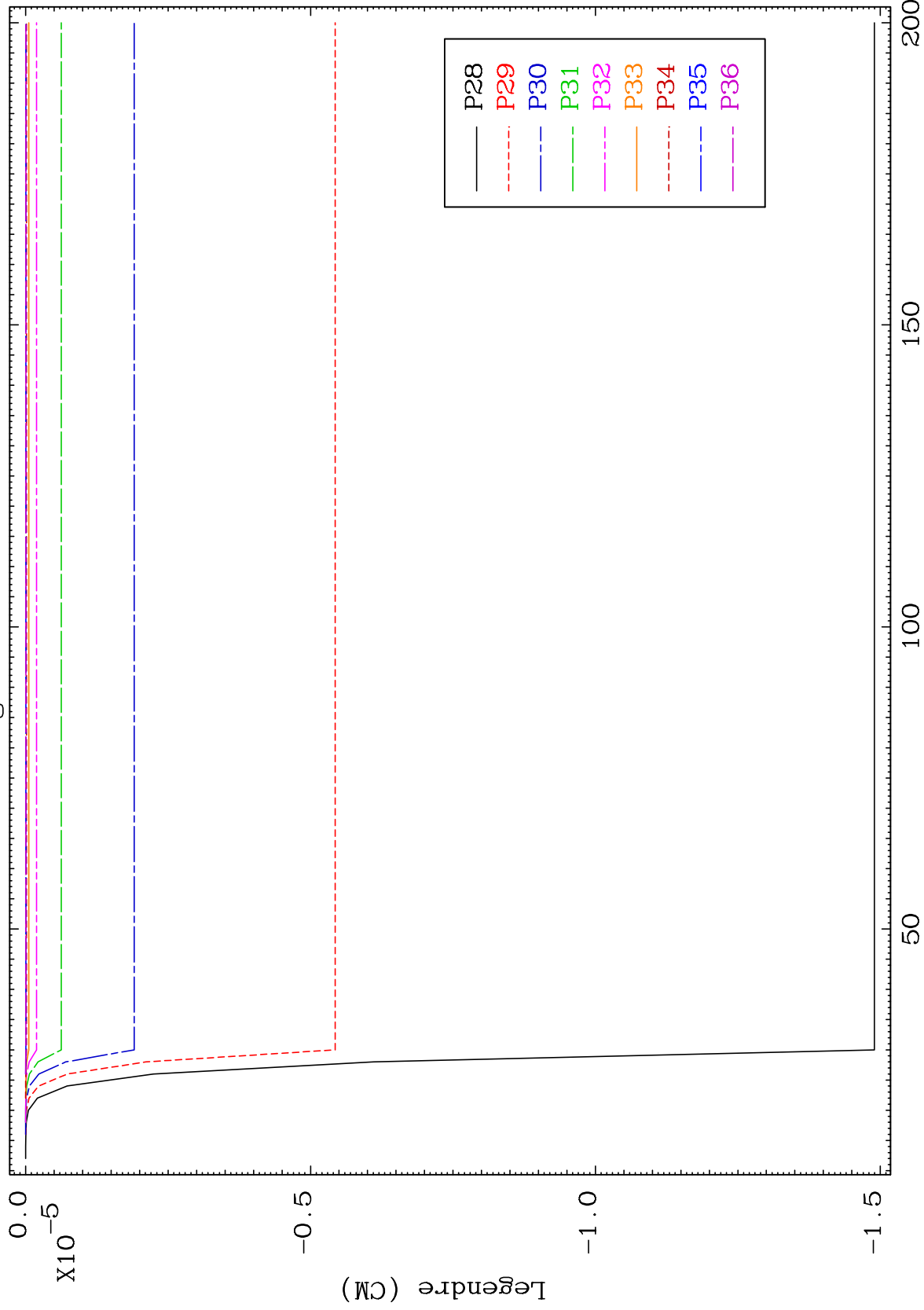
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



38

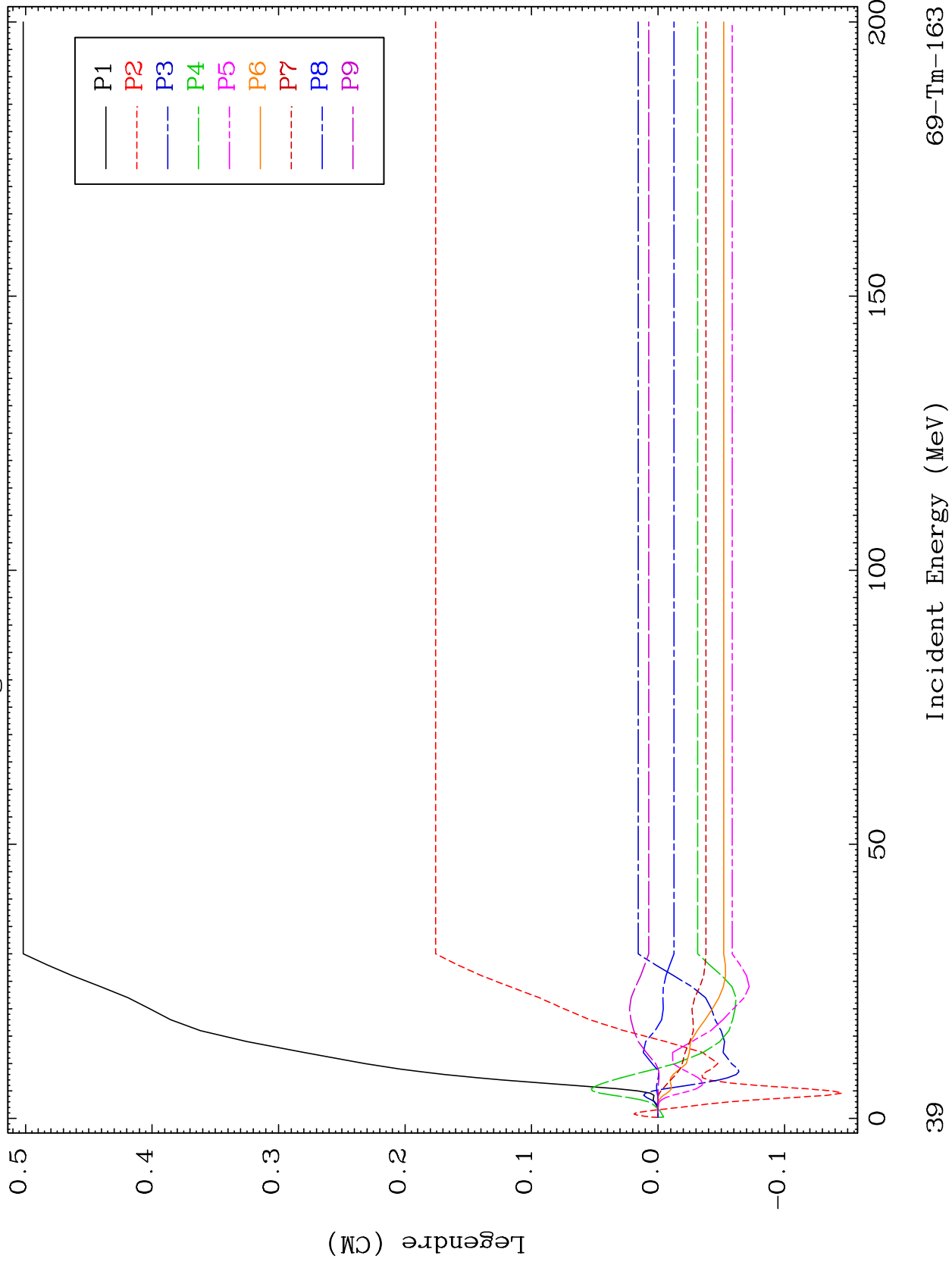
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



69-Tm-163

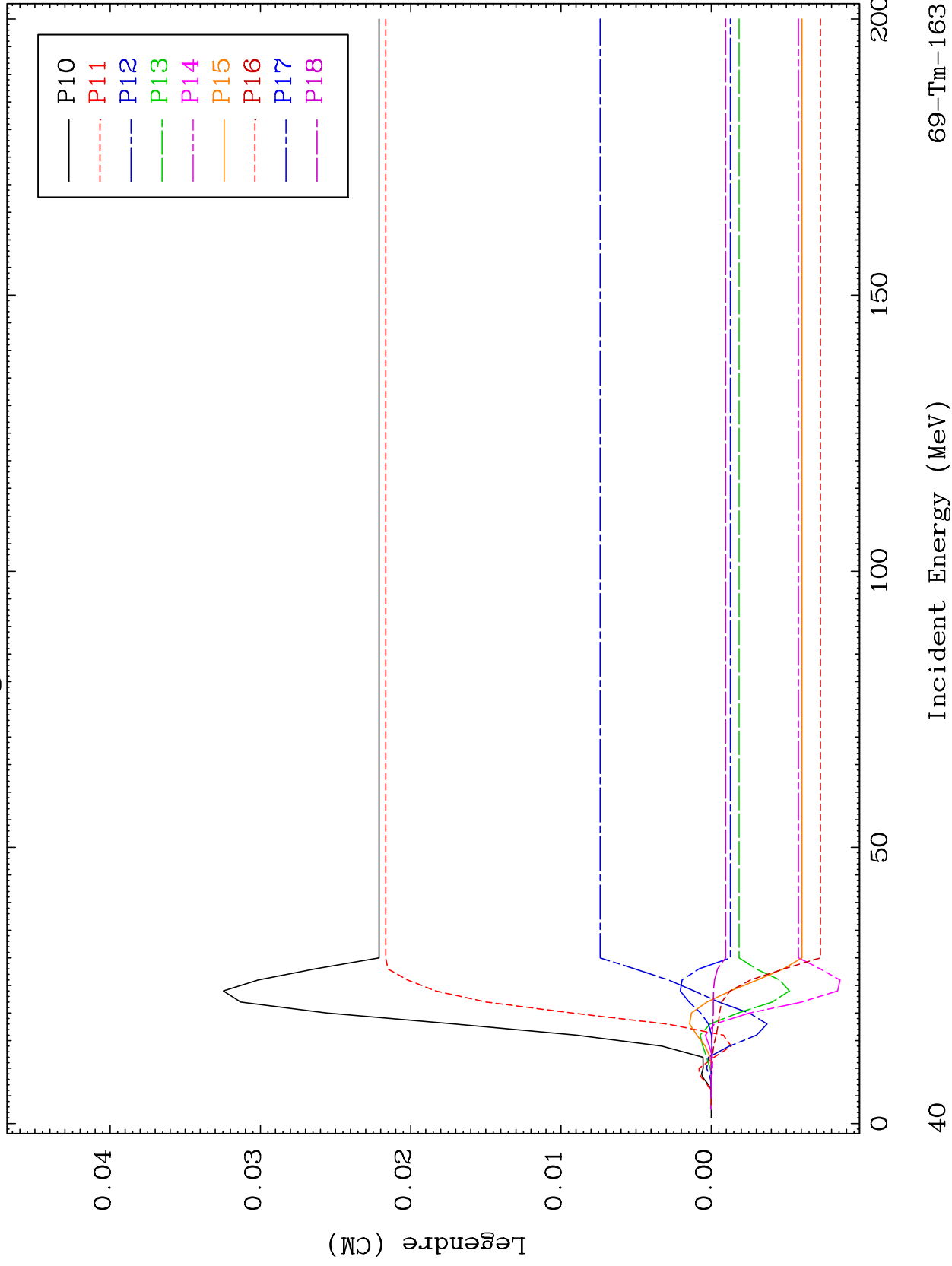
Incident Energy (MeV)

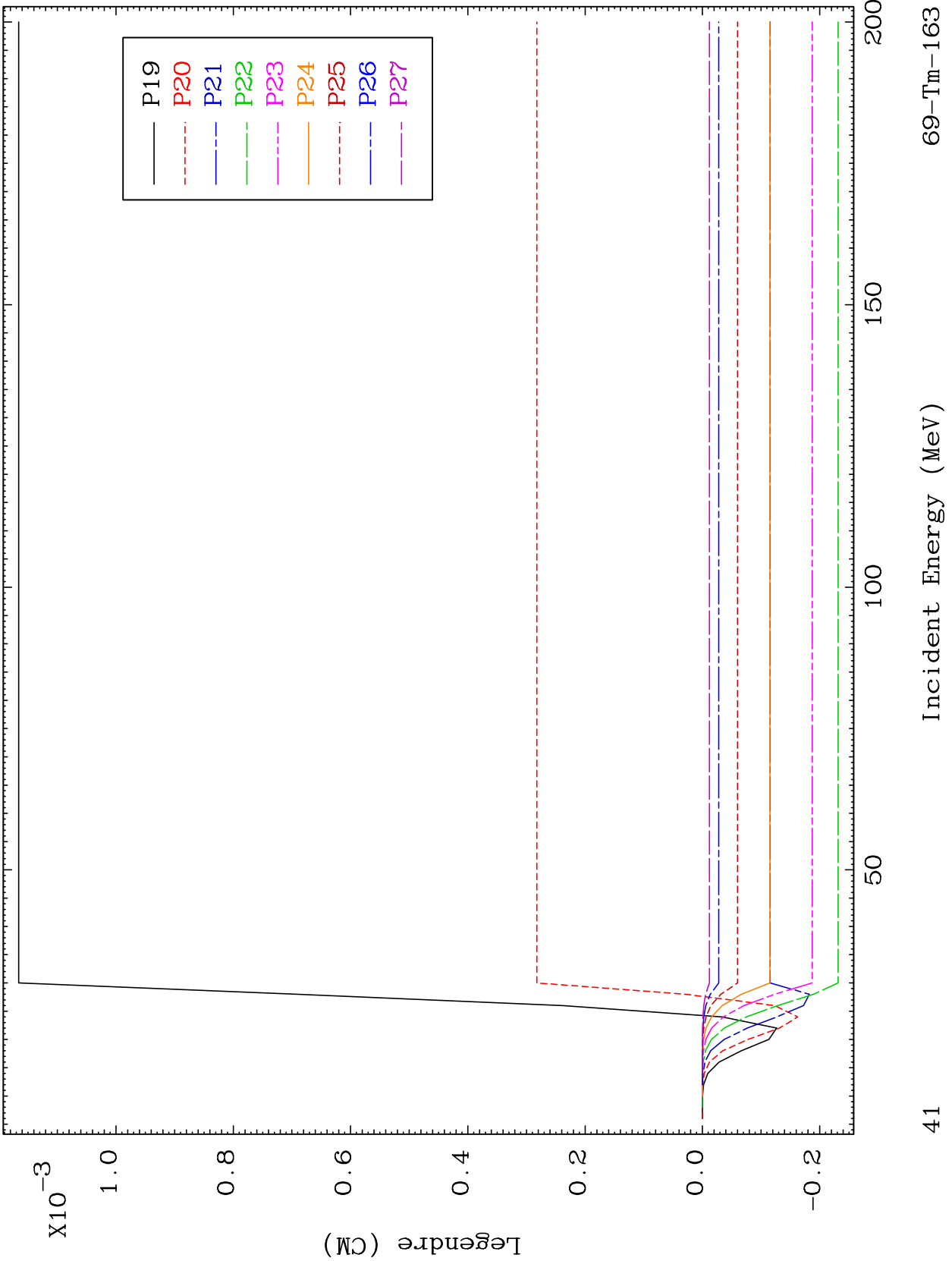
39

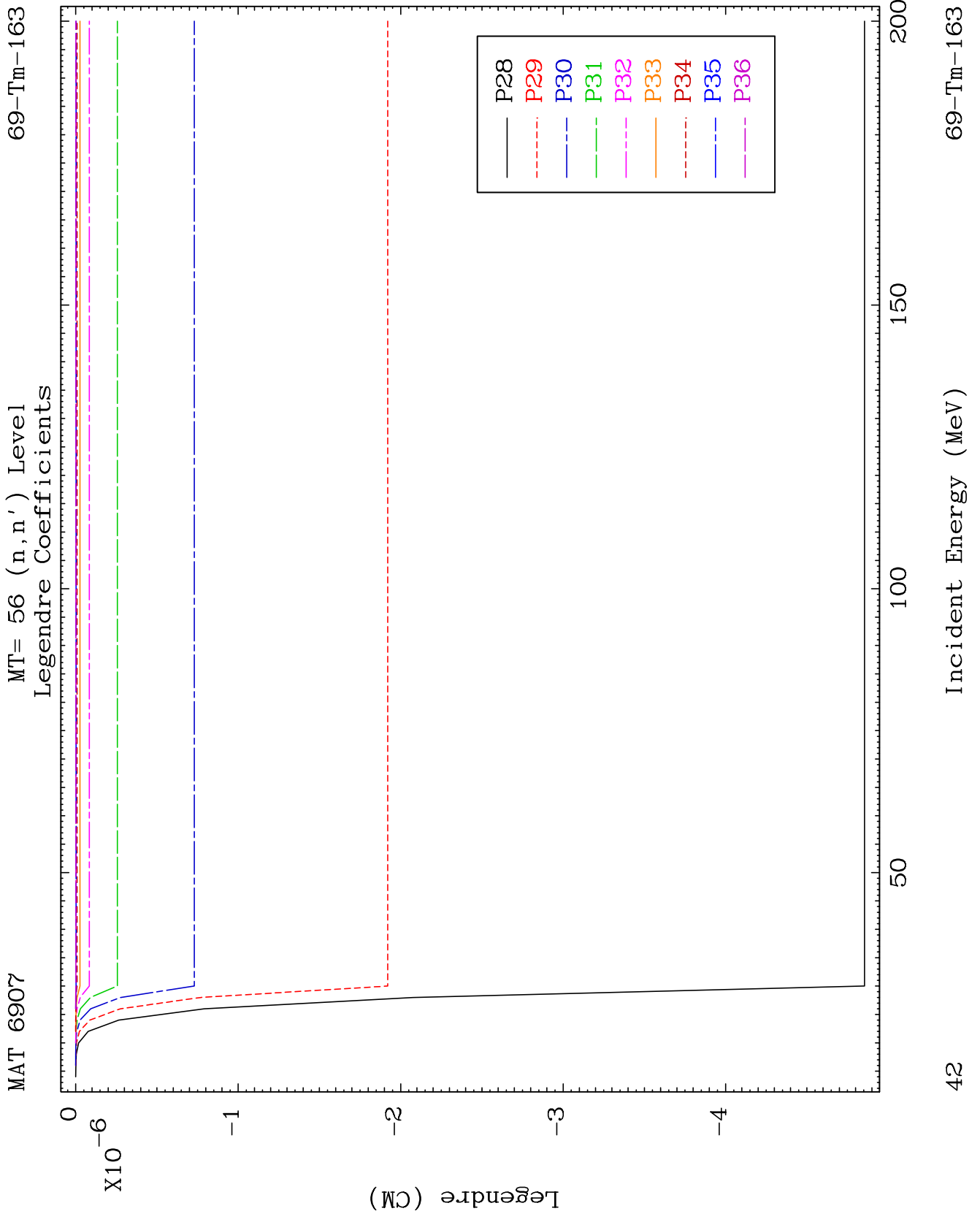
MAT 6907

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

69-Tm-163



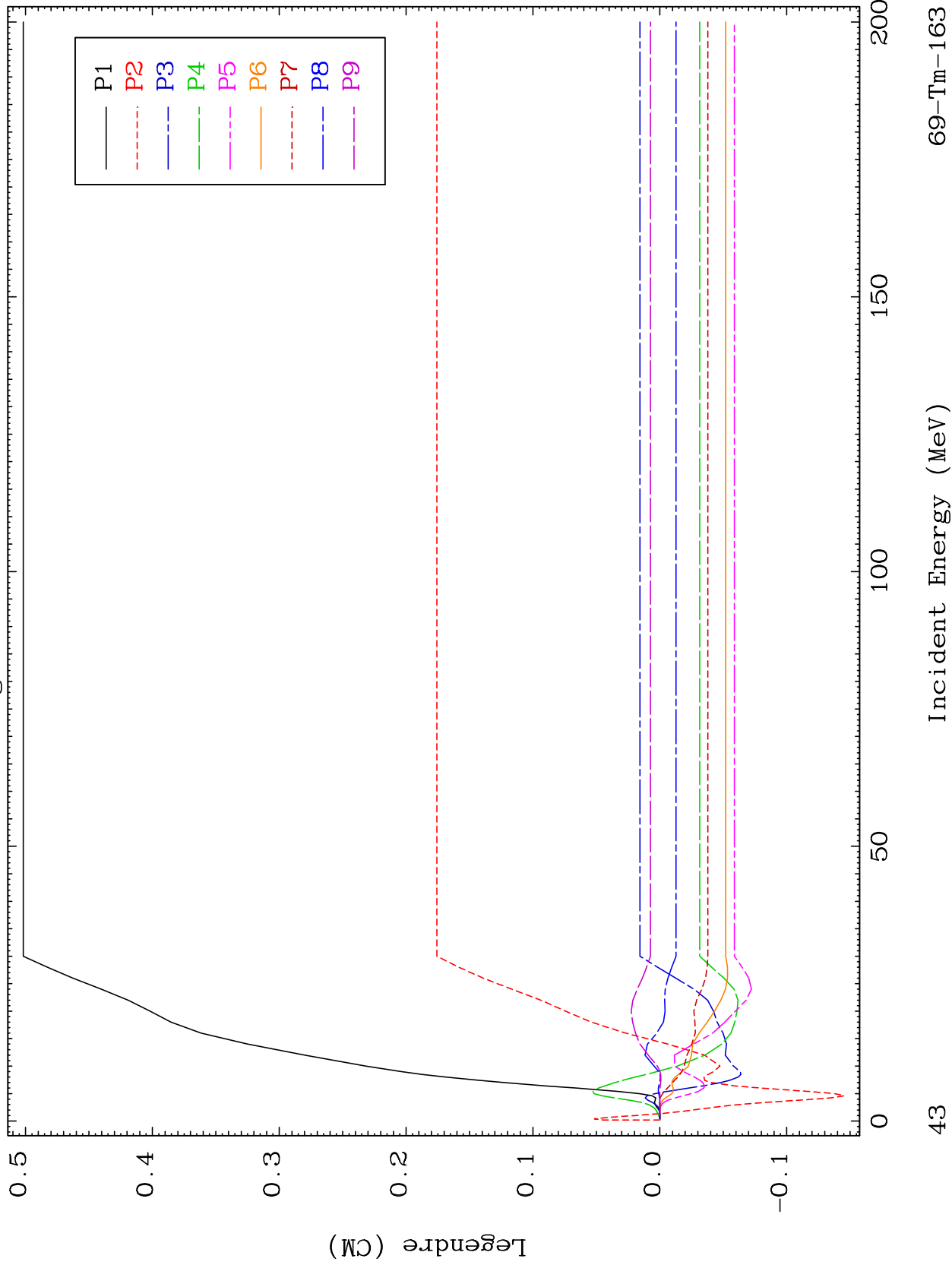




MAT 6907

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

69-Tm-163



69-Tm-163

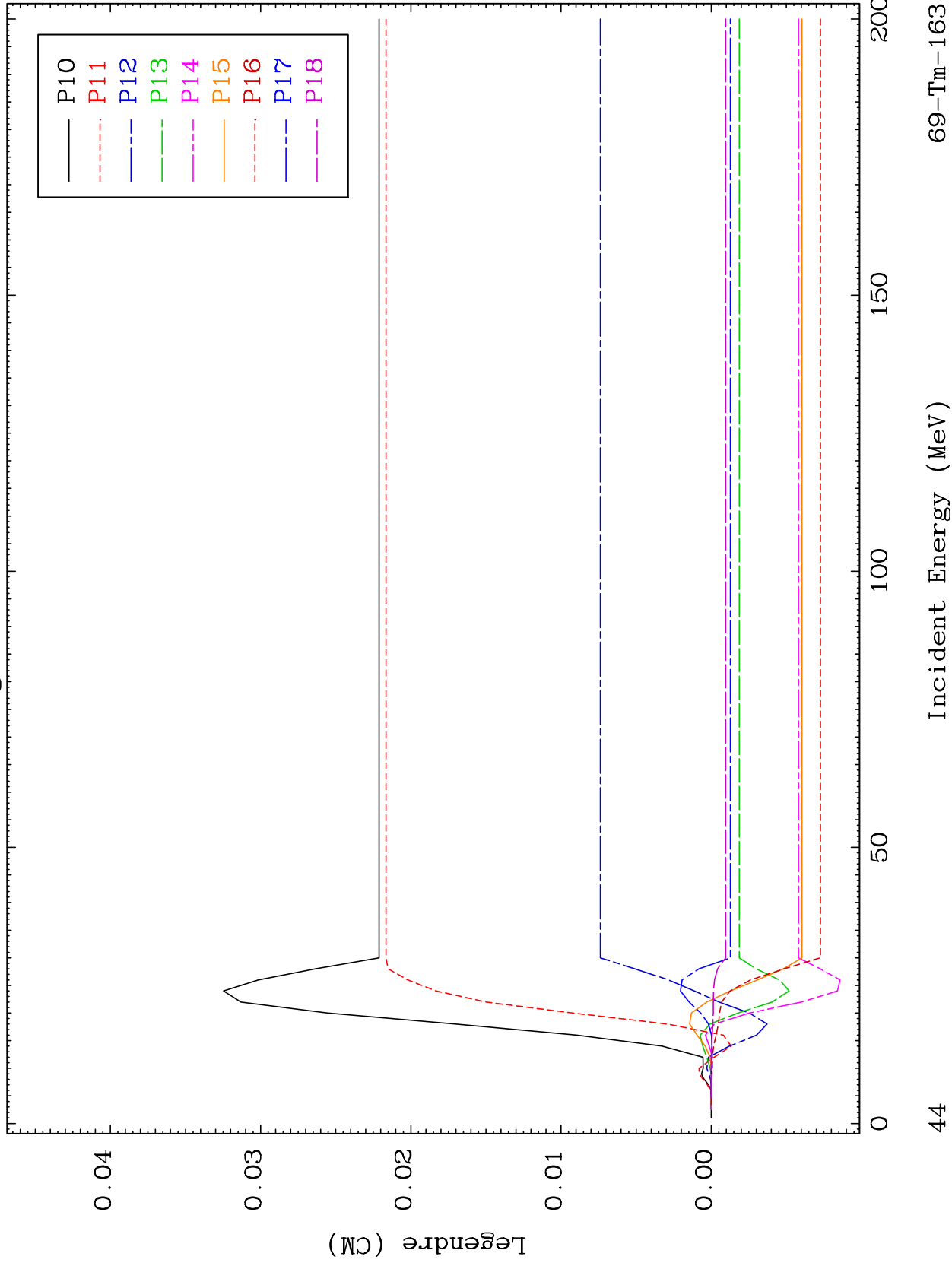
Incident Energy (MeV)

43

MAT 6907

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

69-Tm-163



44

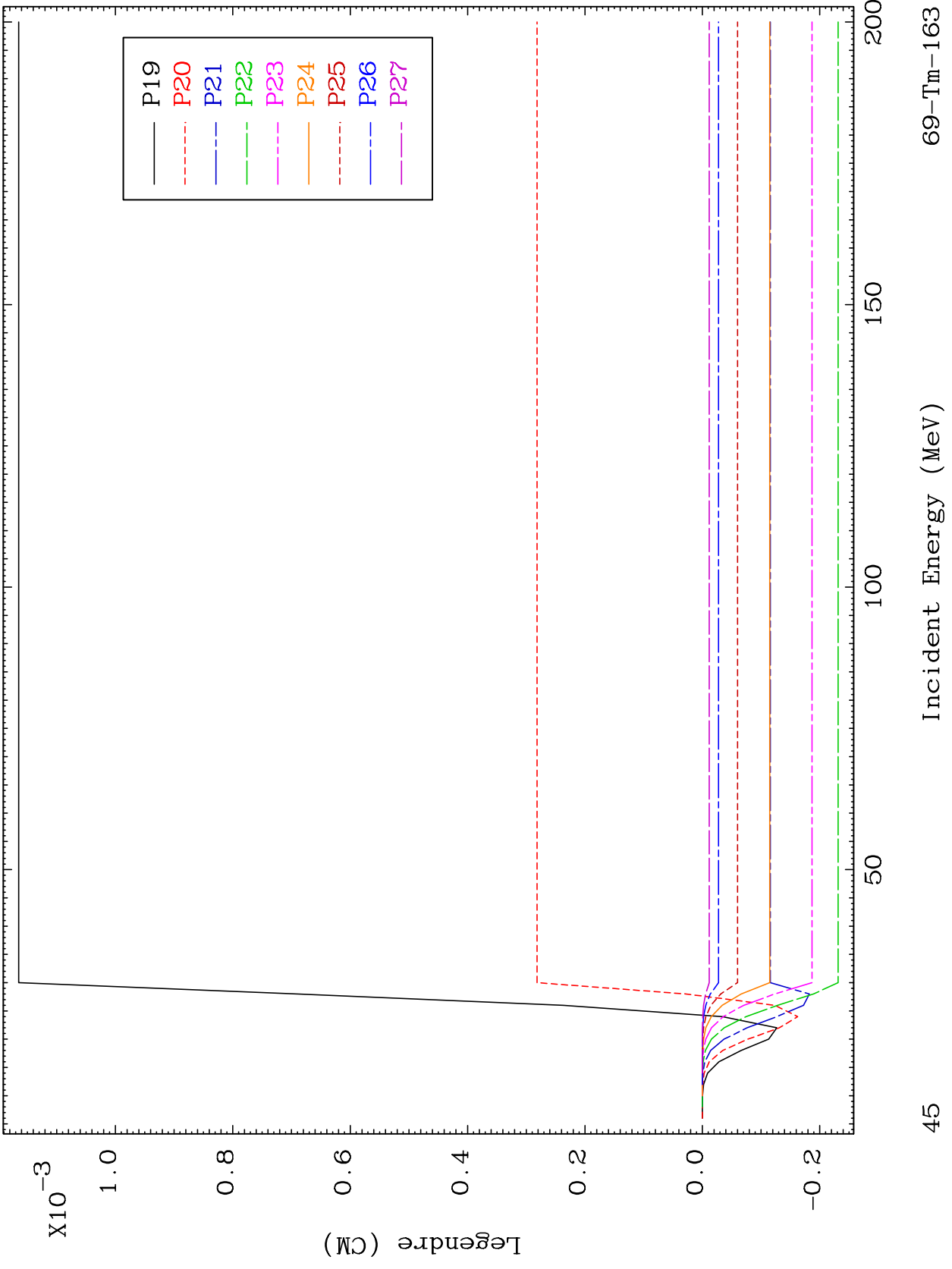
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



69-Tm-163

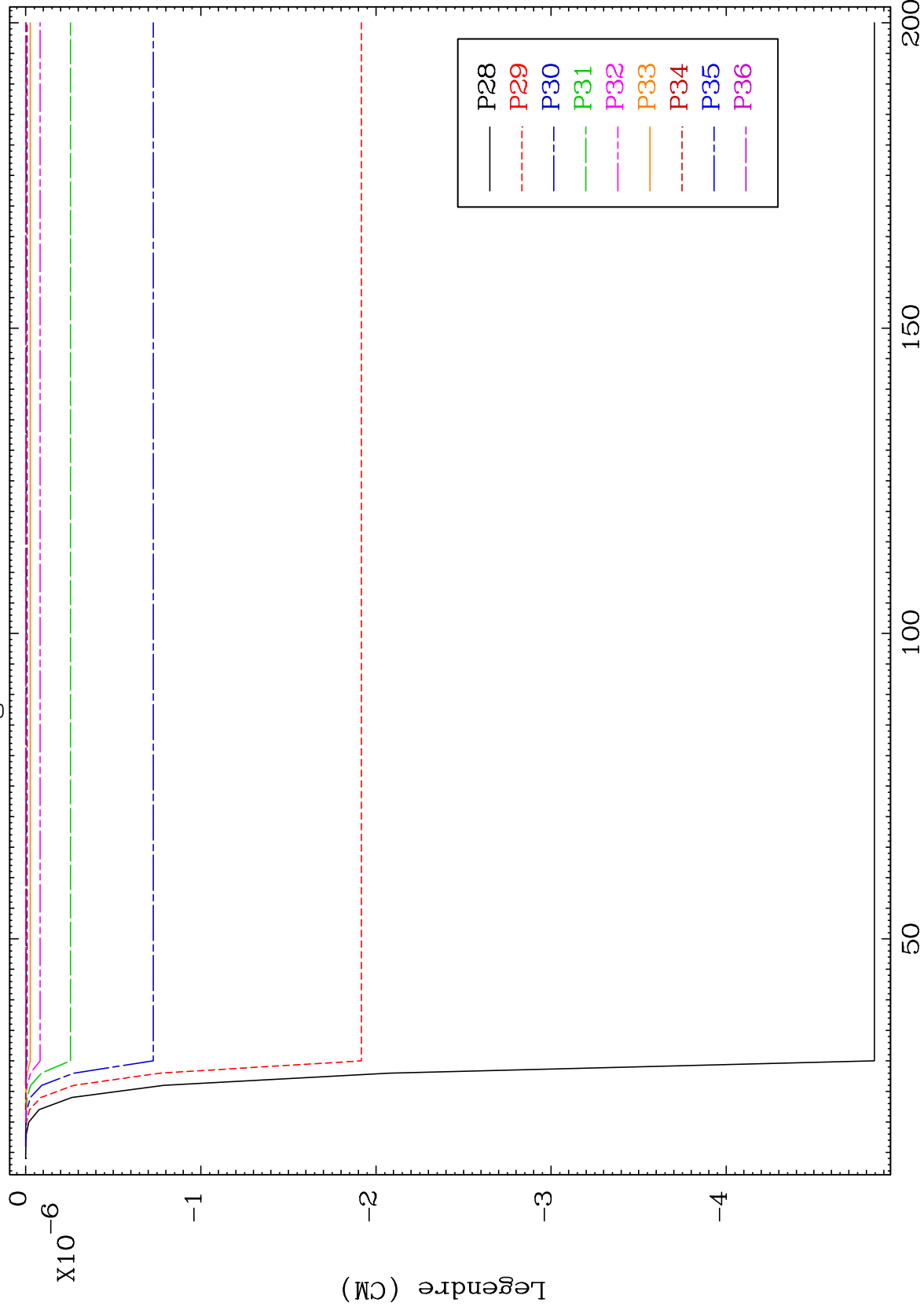
Incident Energy (MeV)

45

MAT 6907

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

69-Tm-163



46

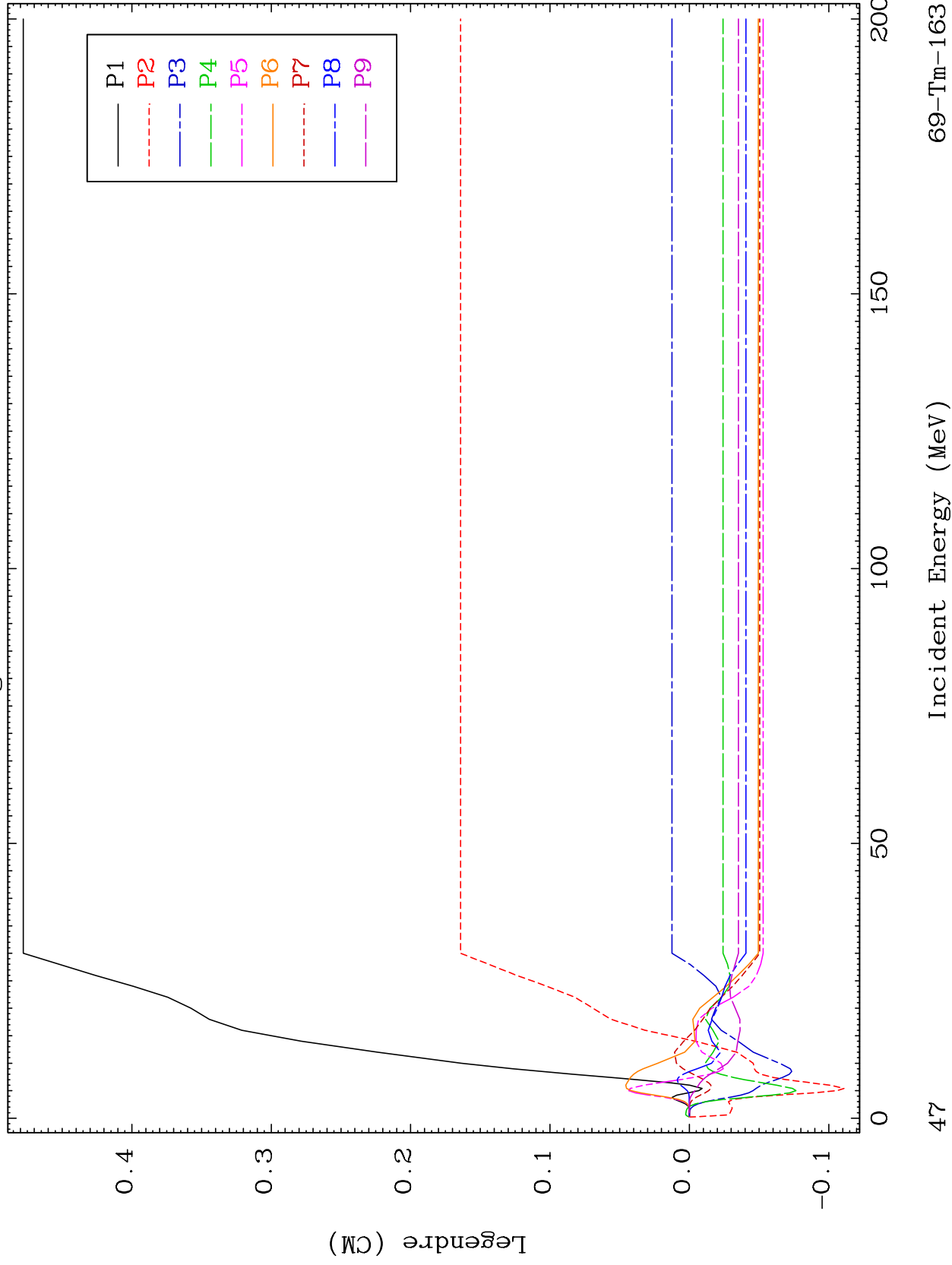
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



69-Tm-163

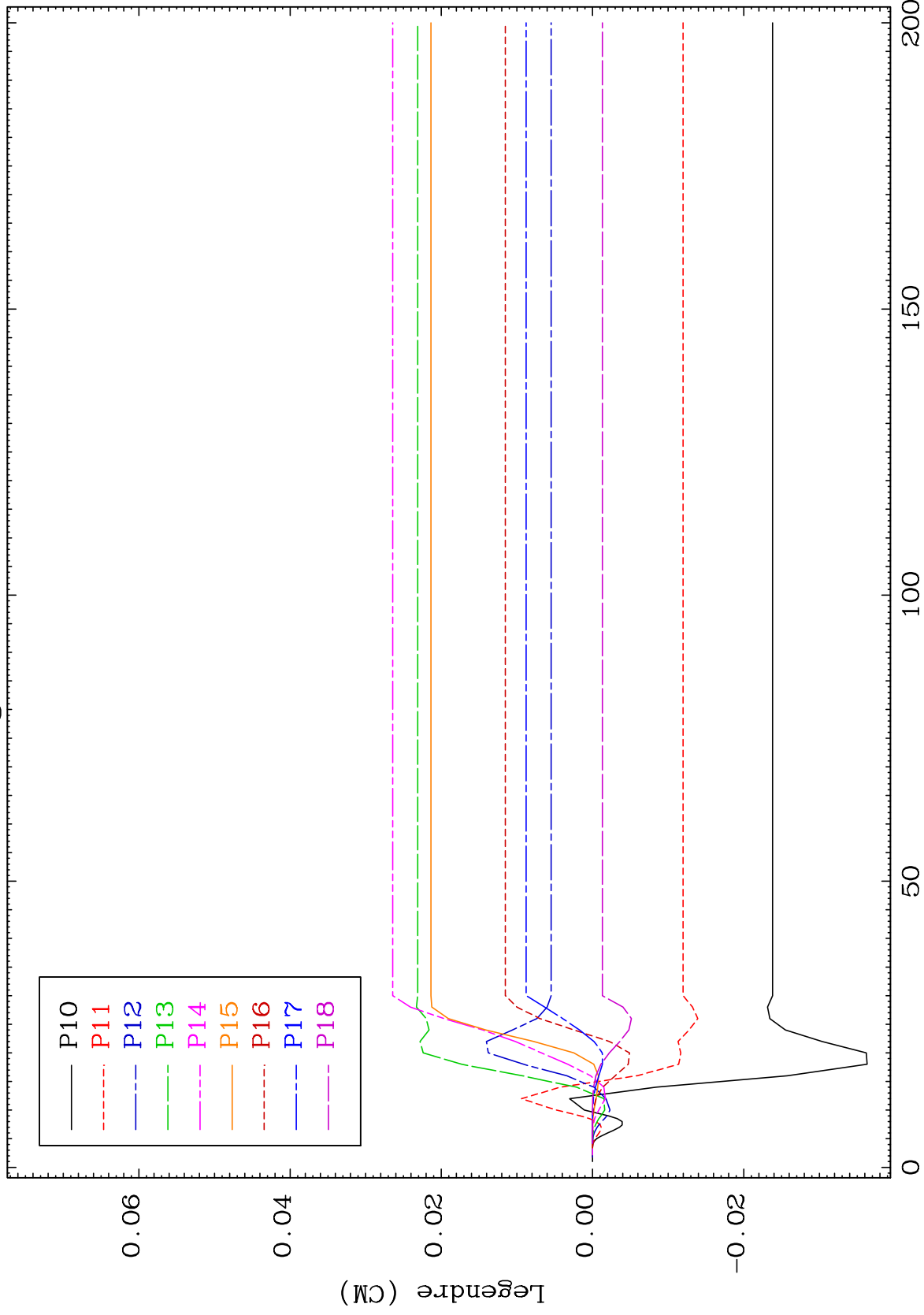
Incident Energy (MeV)

47

MAT 6907

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

69-Tm-163



48

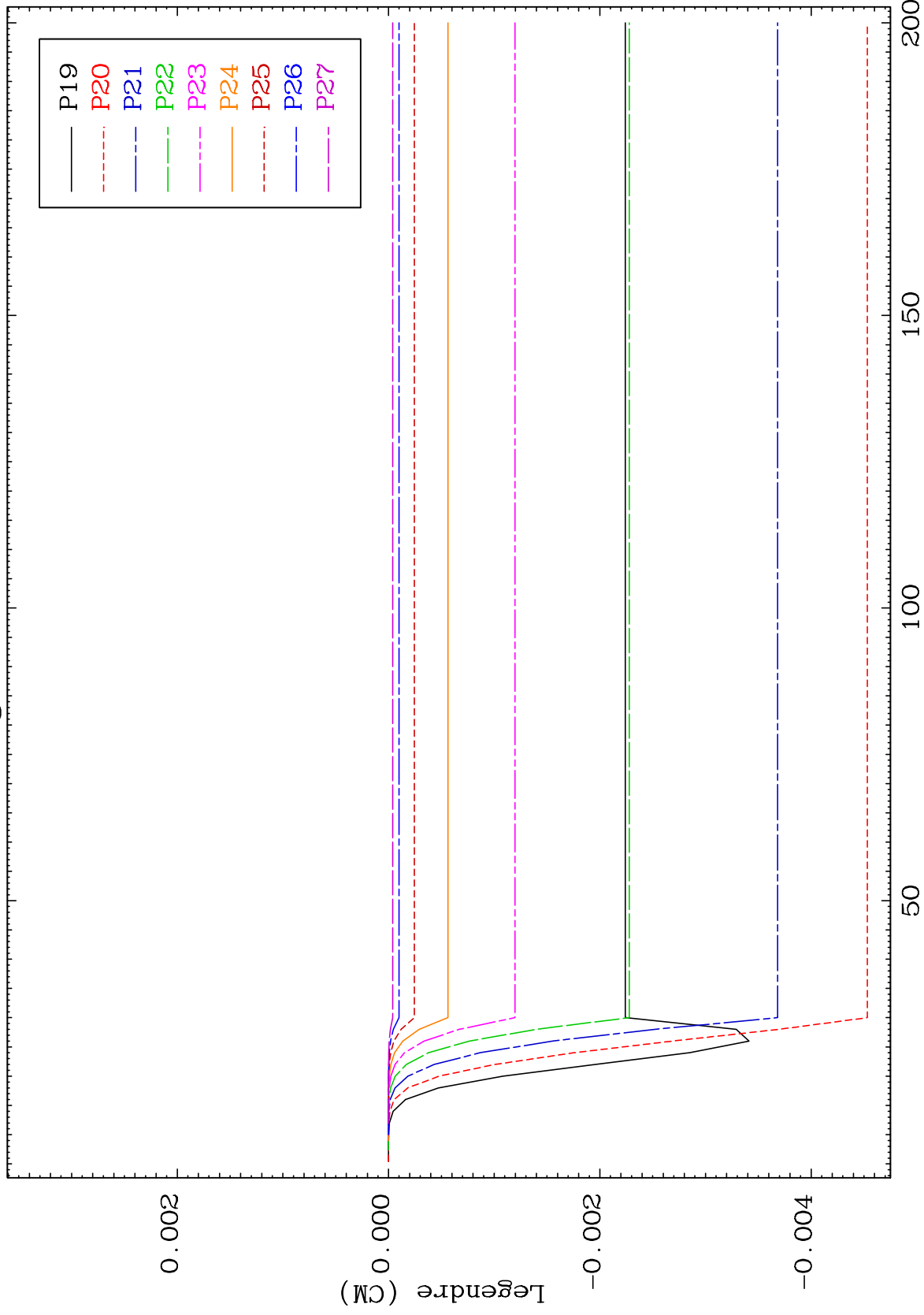
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

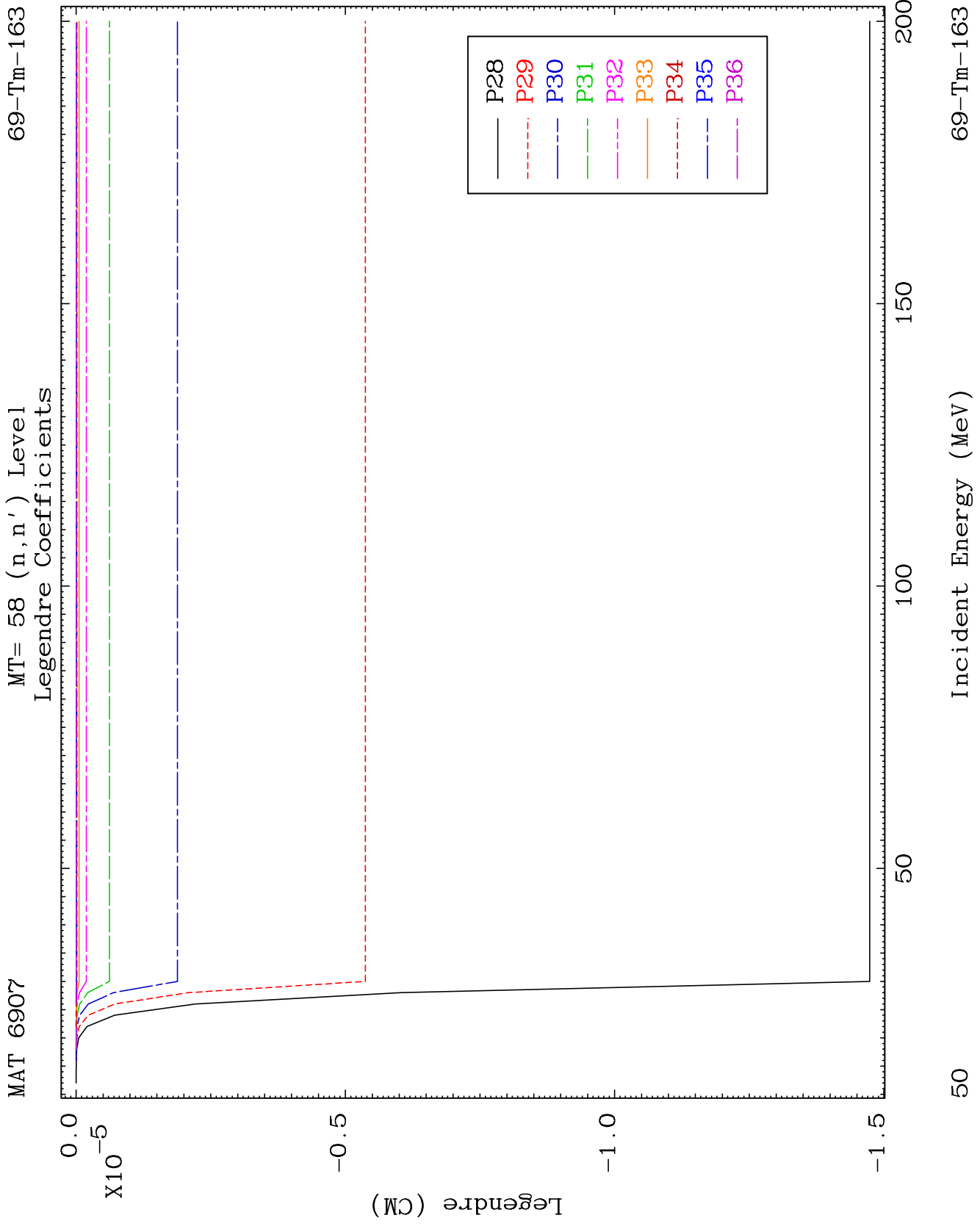
69-Tm-163



49

Incident Energy (MeV)

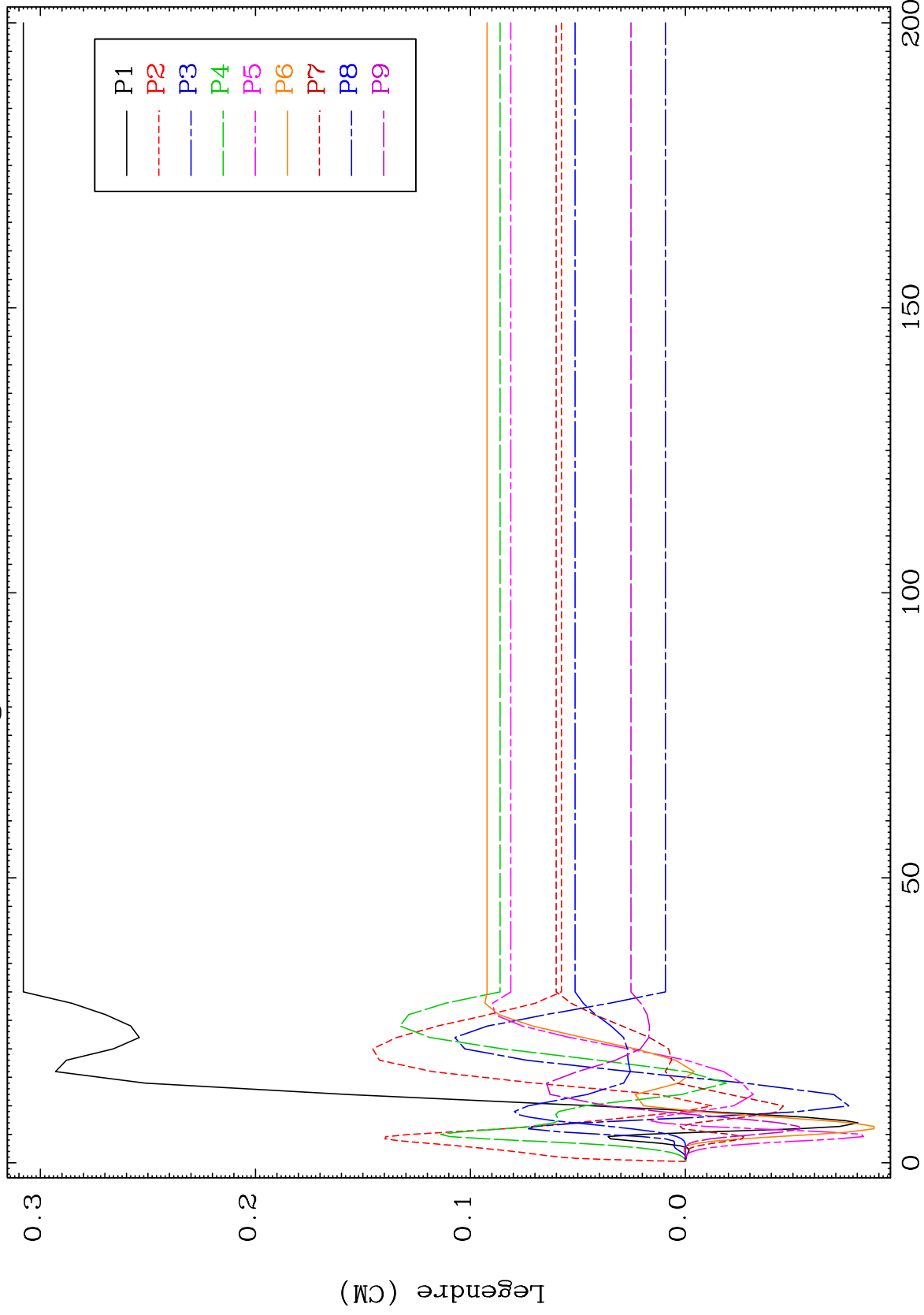
69-Tm-163



MAT 6907

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

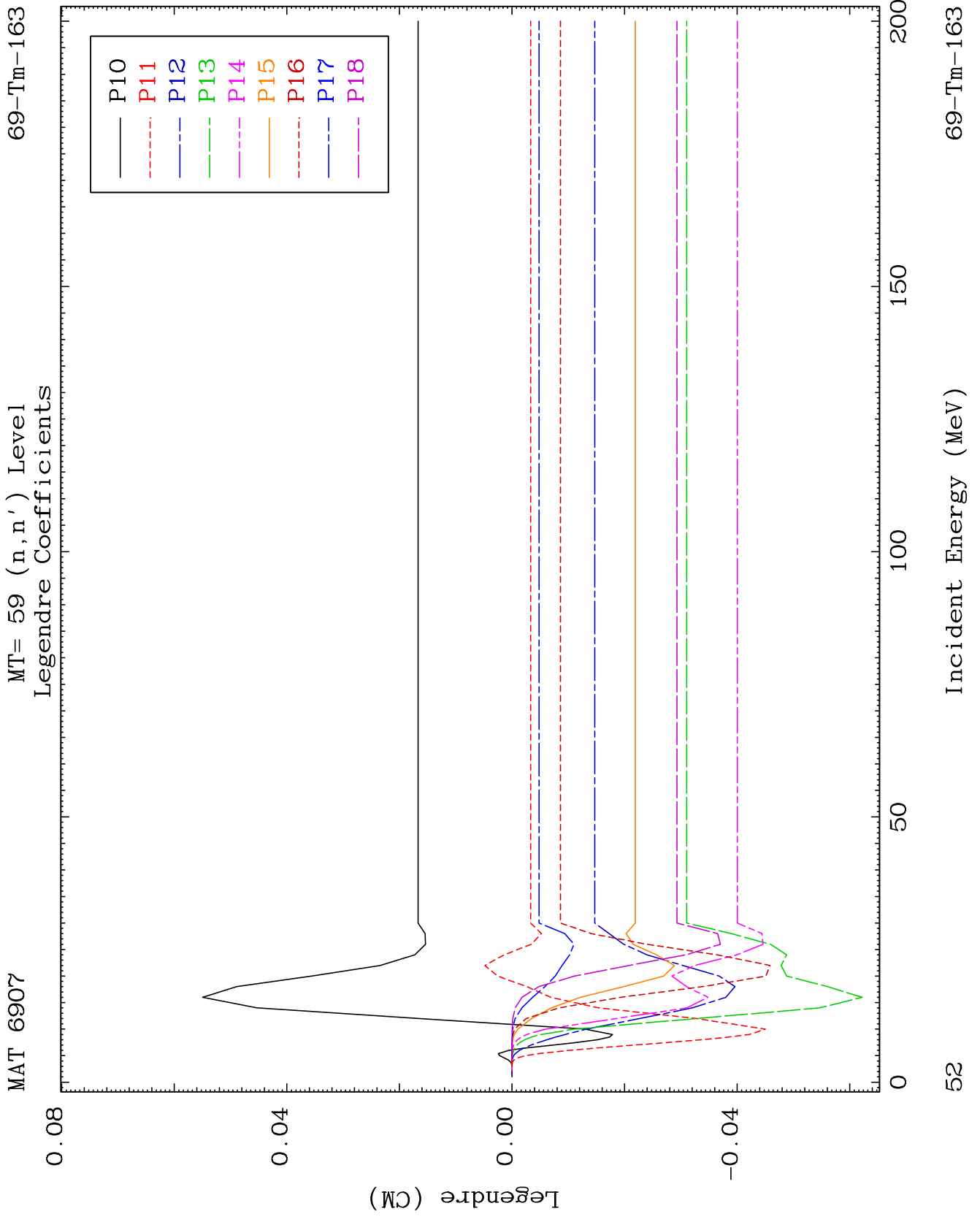
69-Tm-163



51

Incident Energy (MeV)

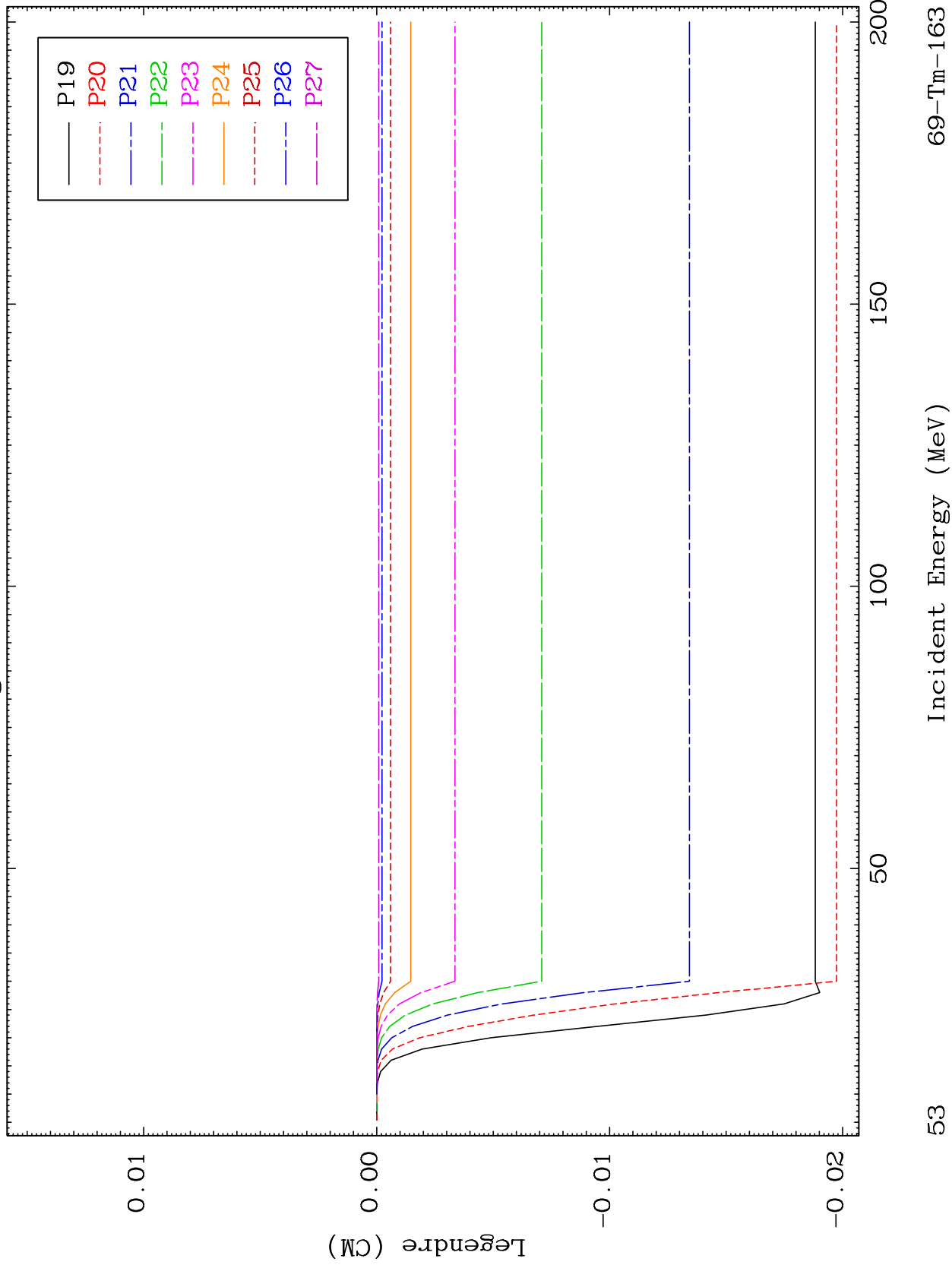
69-Tm-163



MAT 6907

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

69-Tm-163



53

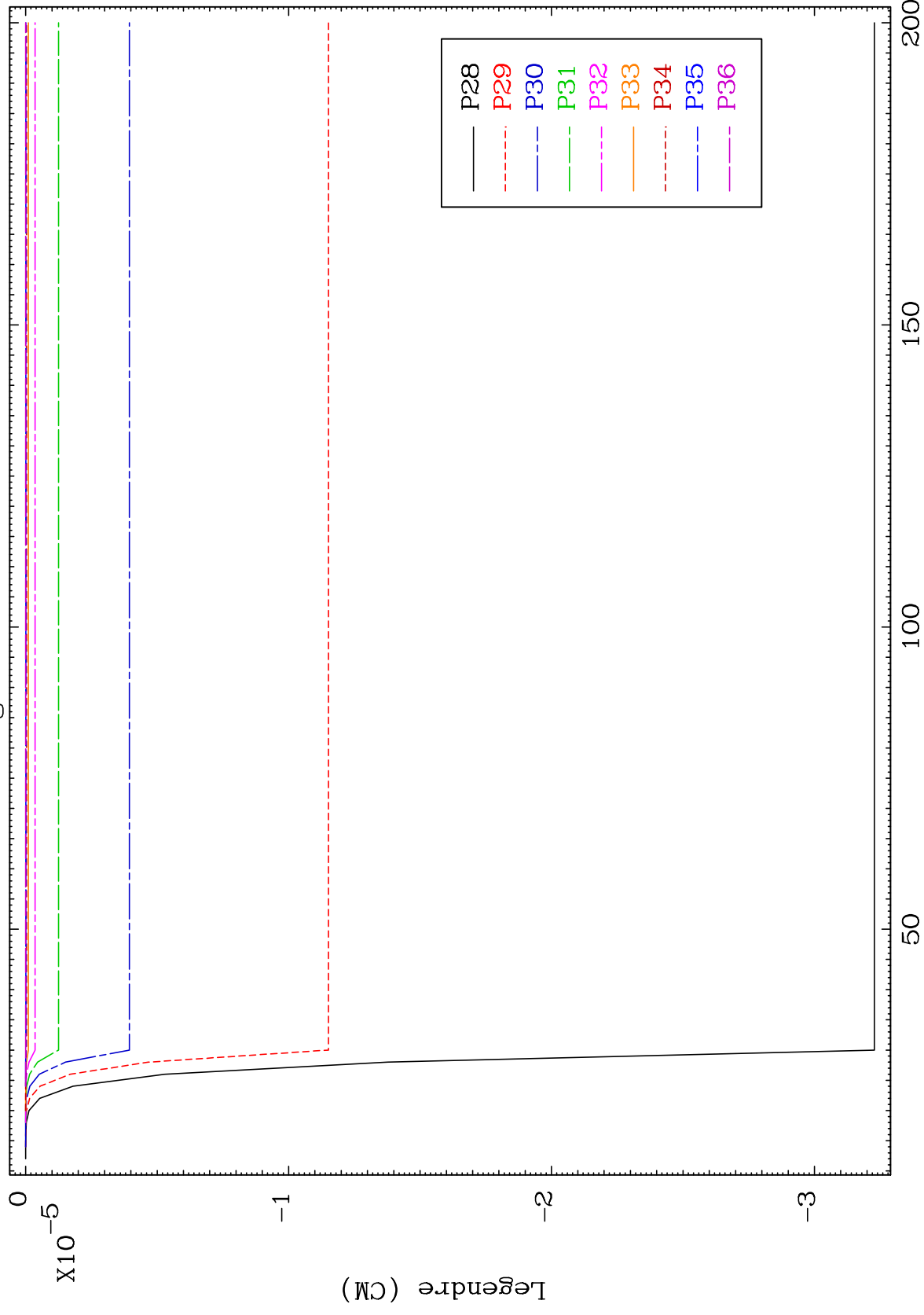
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

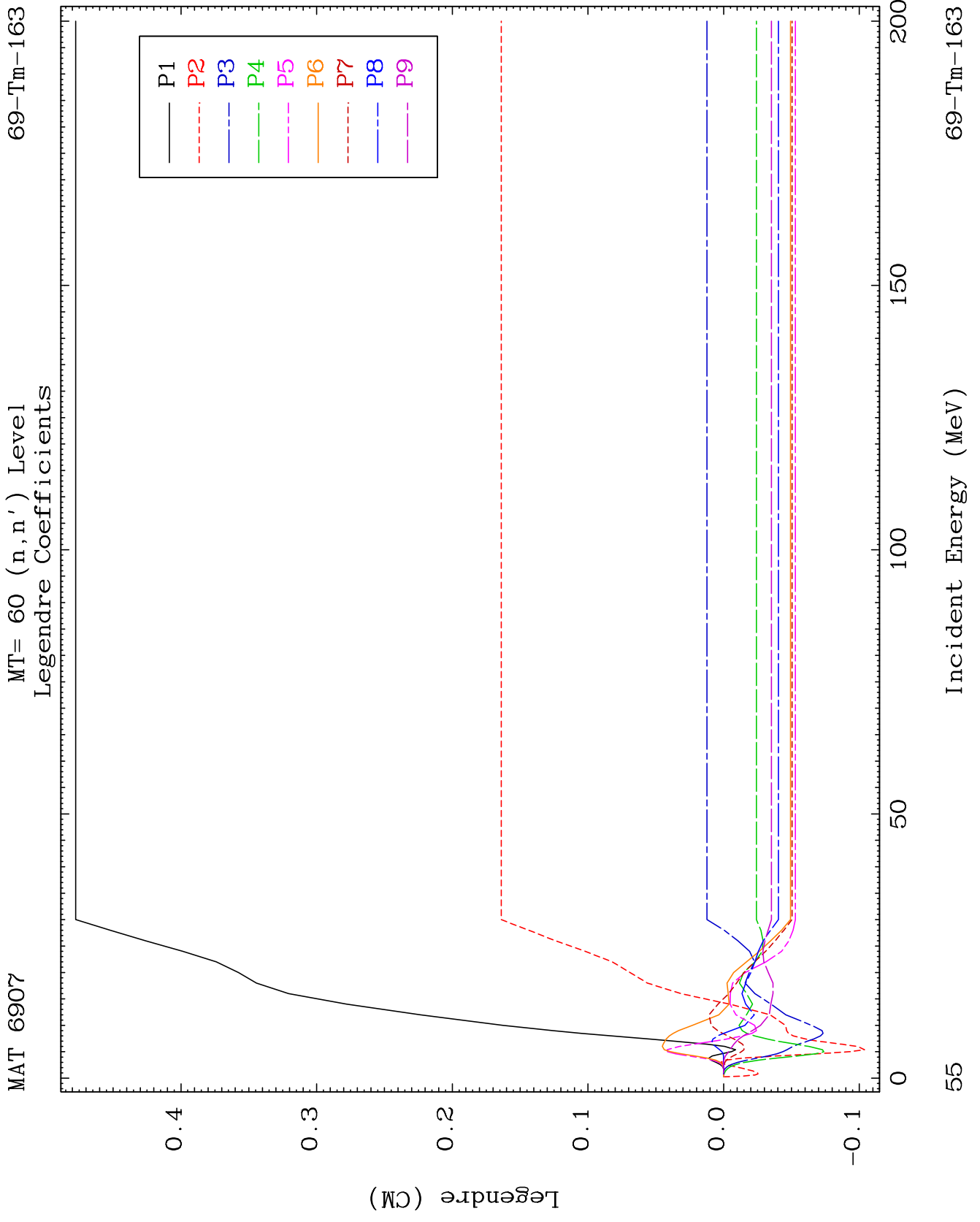
69-Tm-163



54

Incident Energy (MeV)

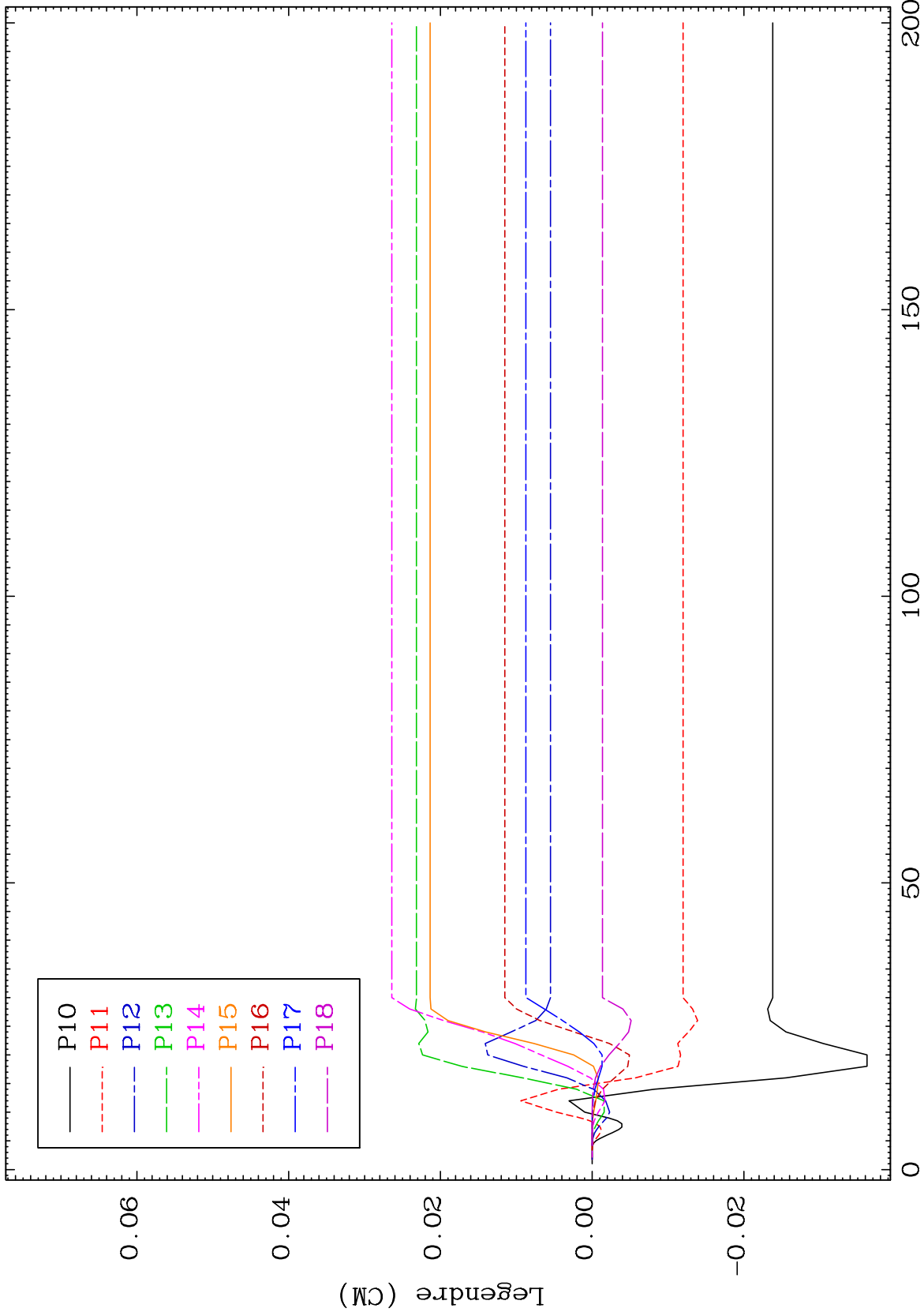
69-Tm-163



MAT 6907

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

69-Tm-163



56

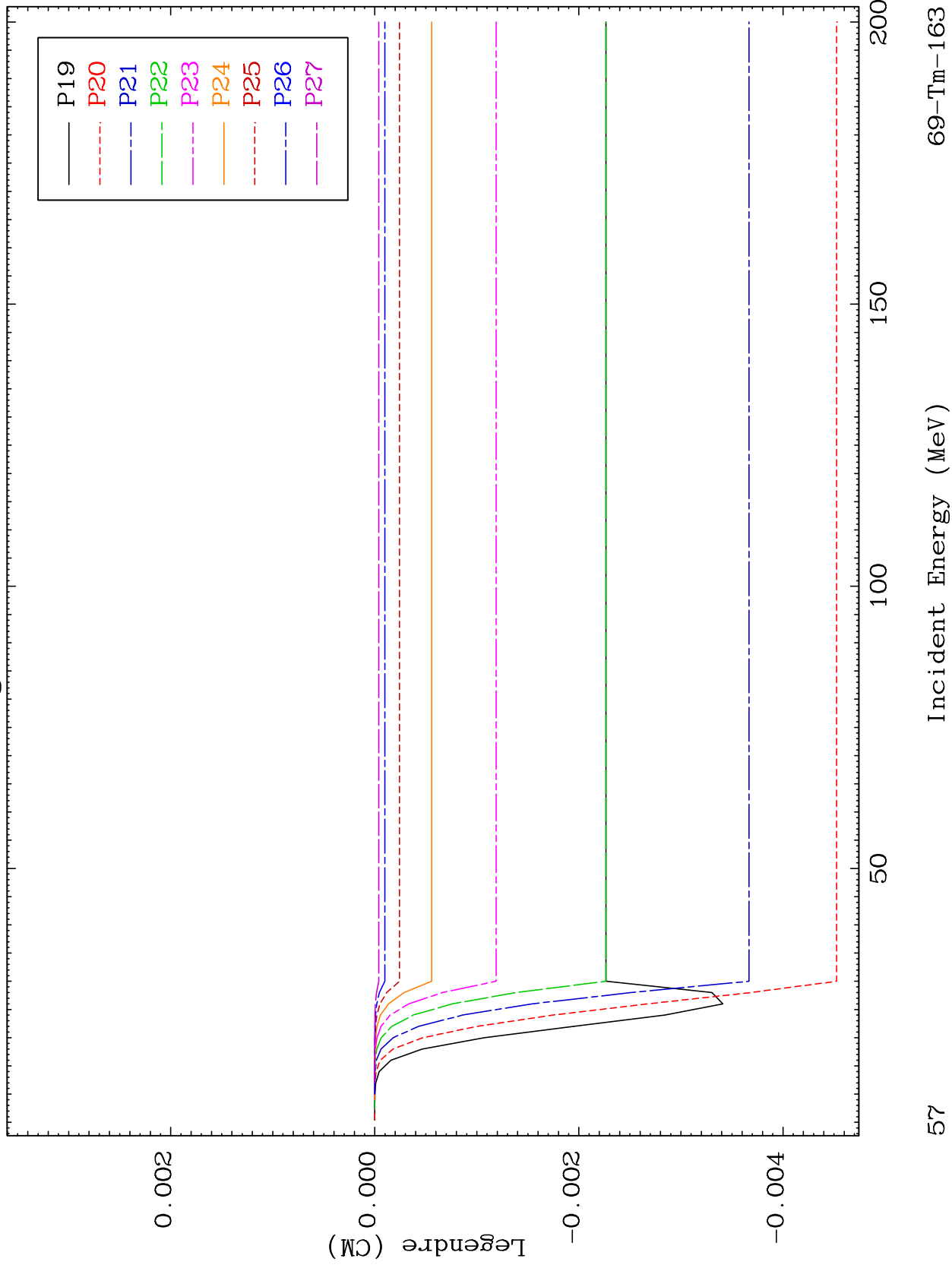
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

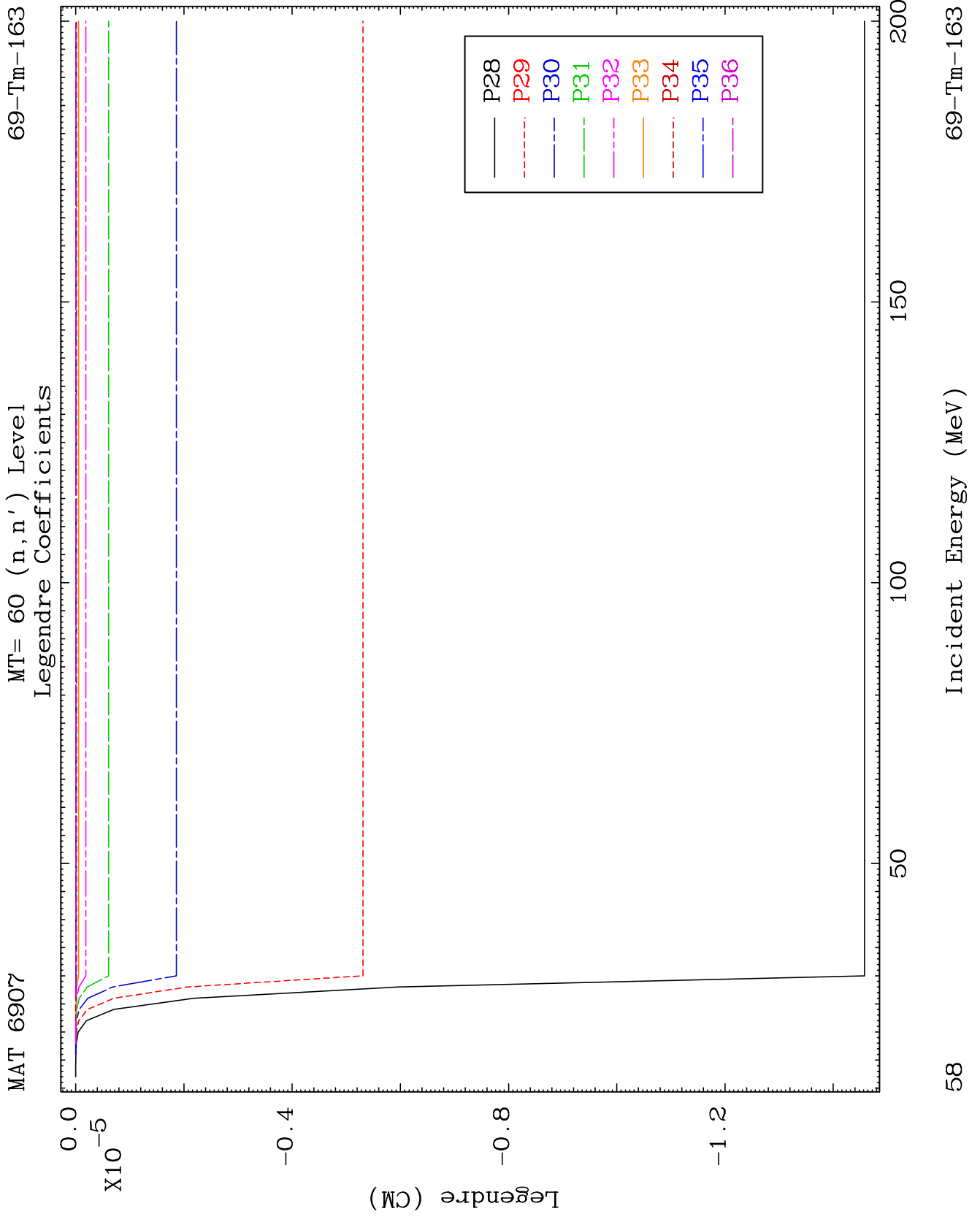
69-Tm-163



57

Incident Energy (MeV)

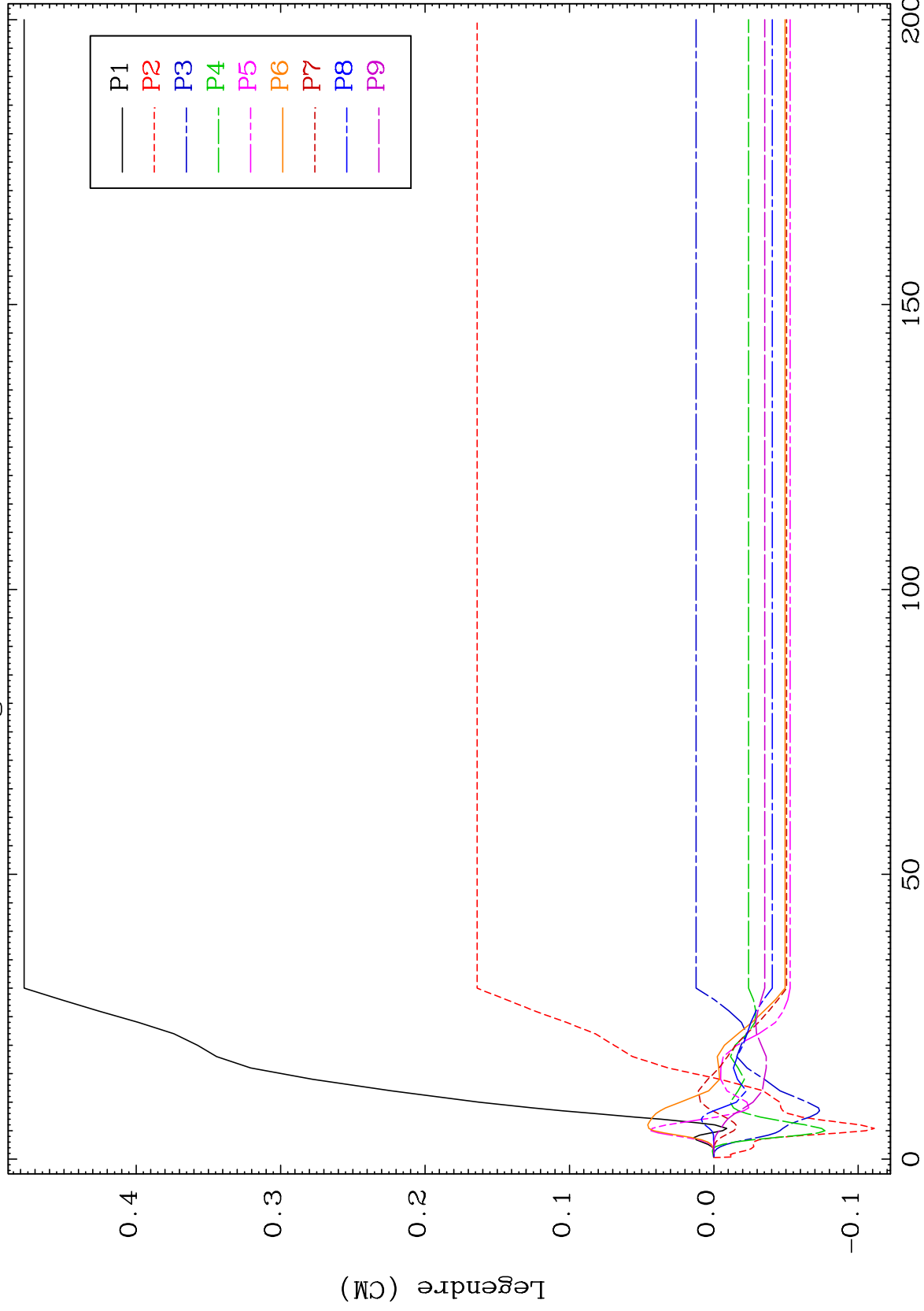
69-Tm-163



MAT 6907

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

69-Tm-163



59

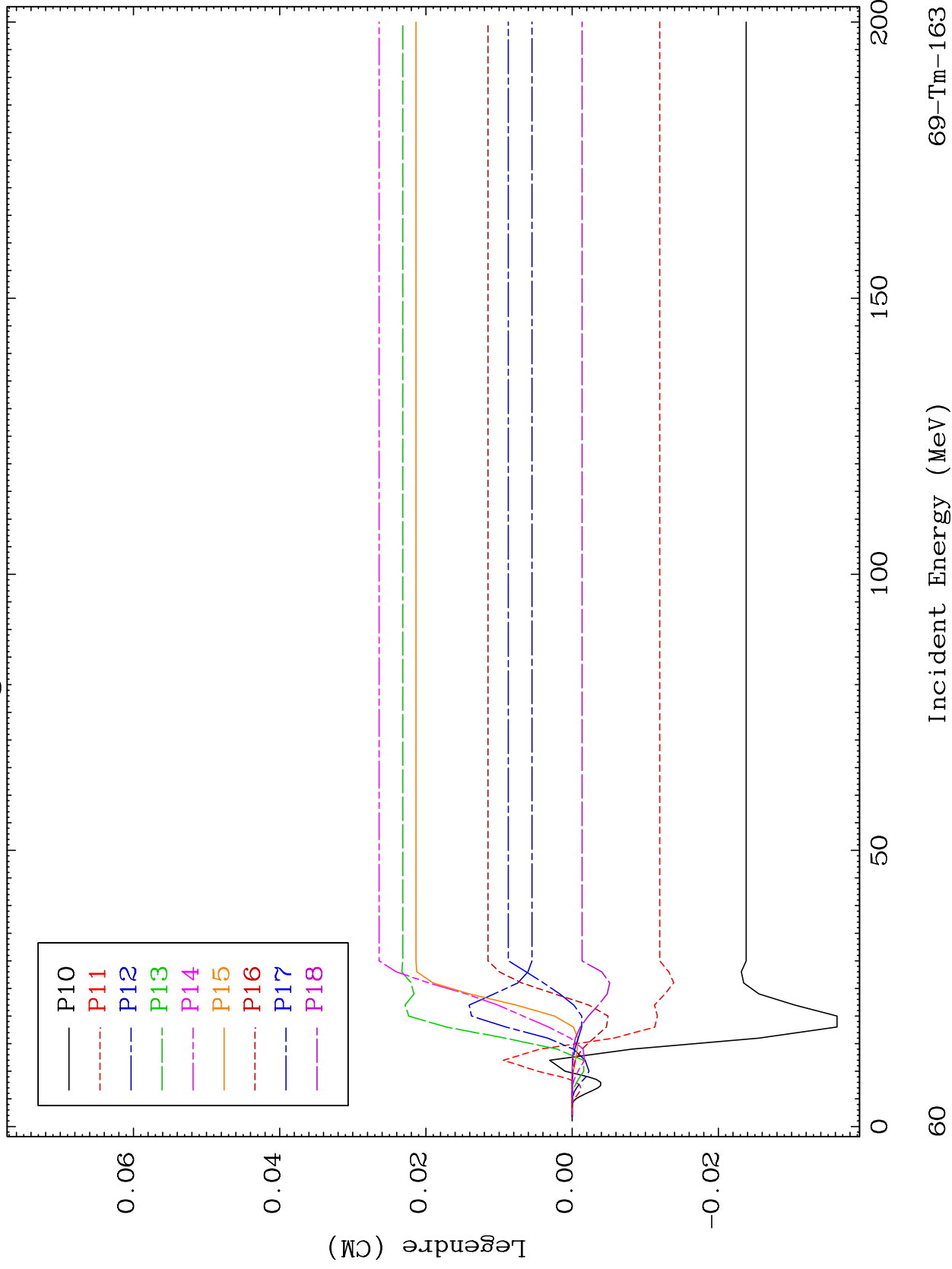
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



69-Tm-163

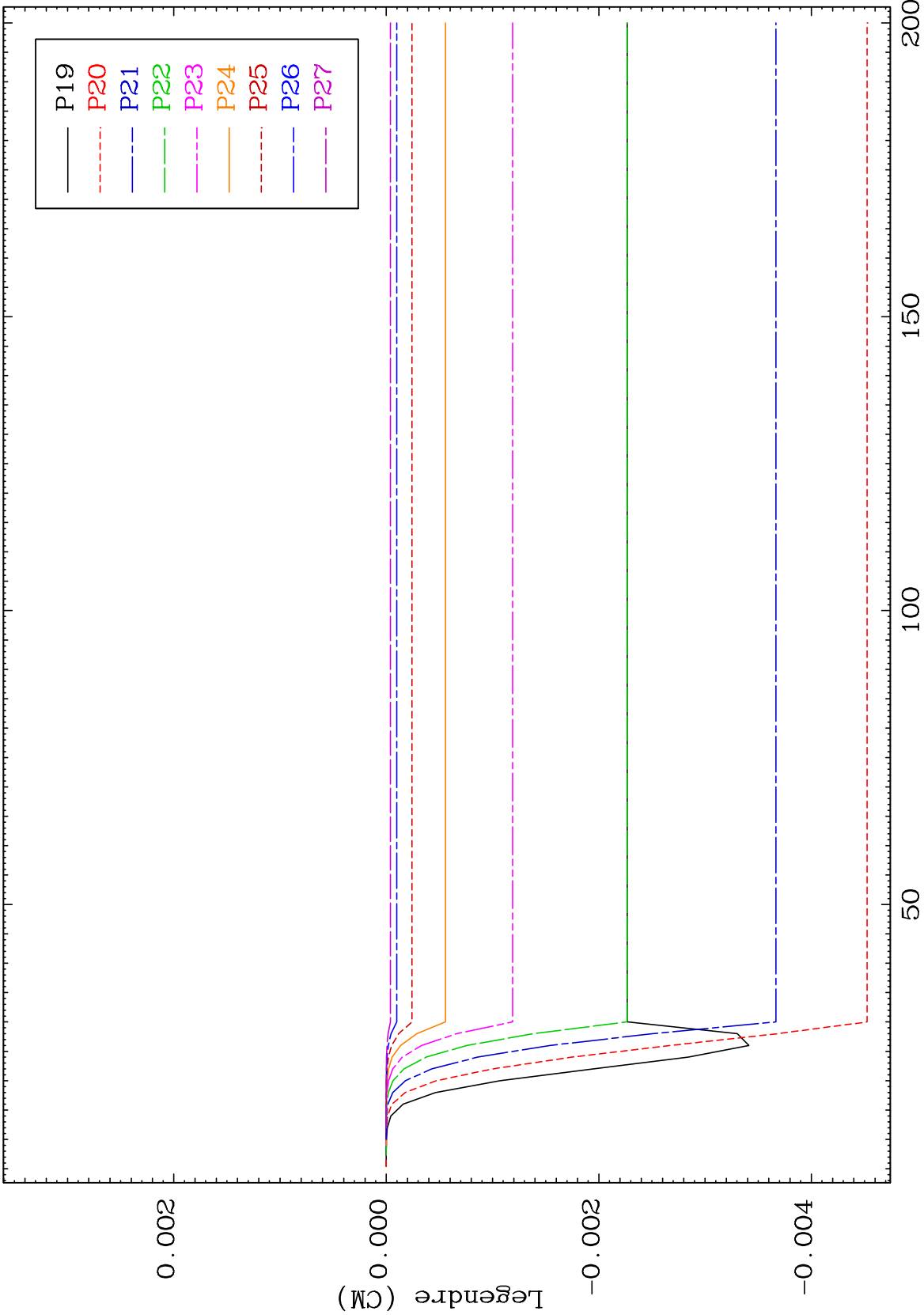
Incident Energy (MeV)

60

MAT 6907

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

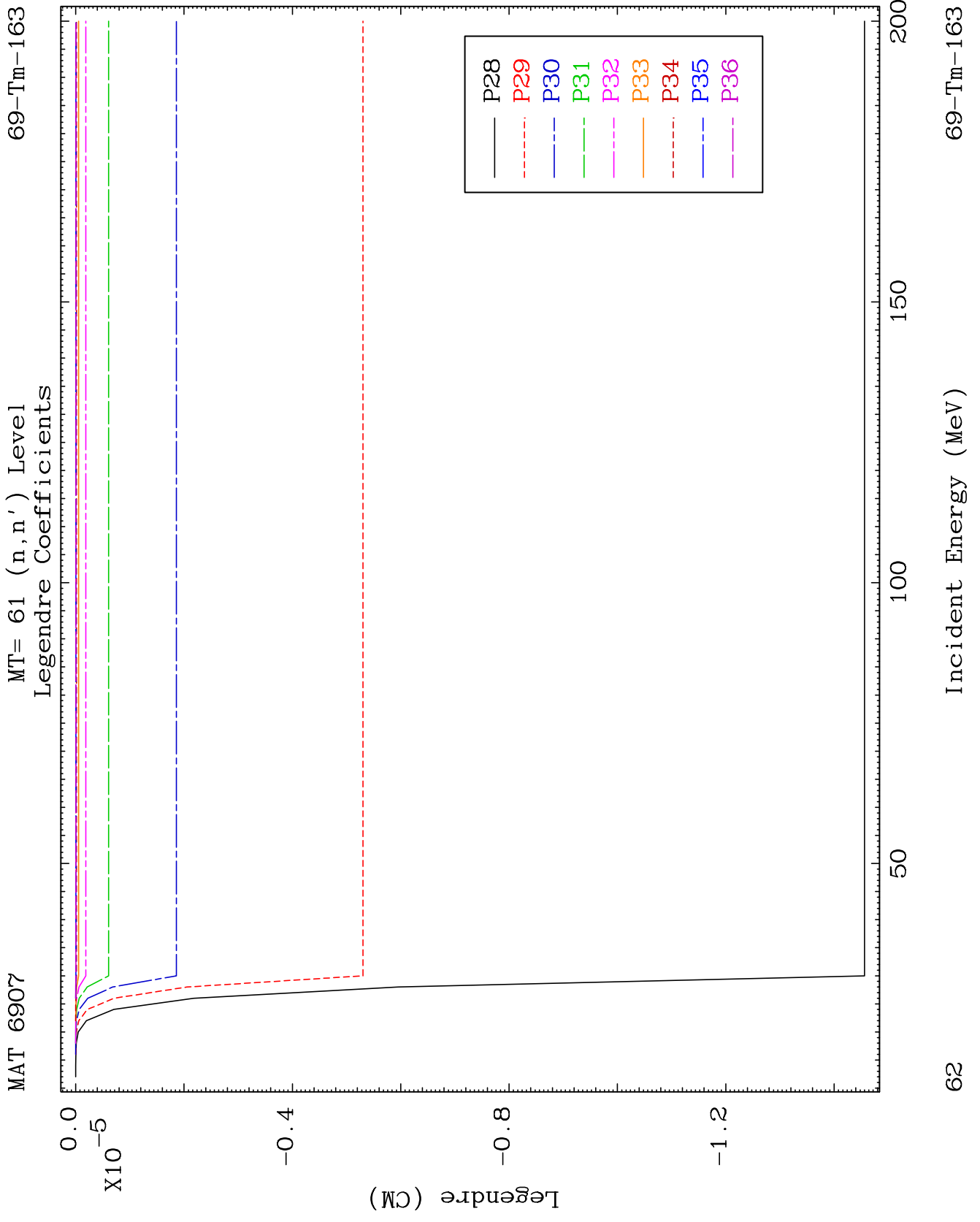
69-Tm-163



61

Incident Energy (MeV)

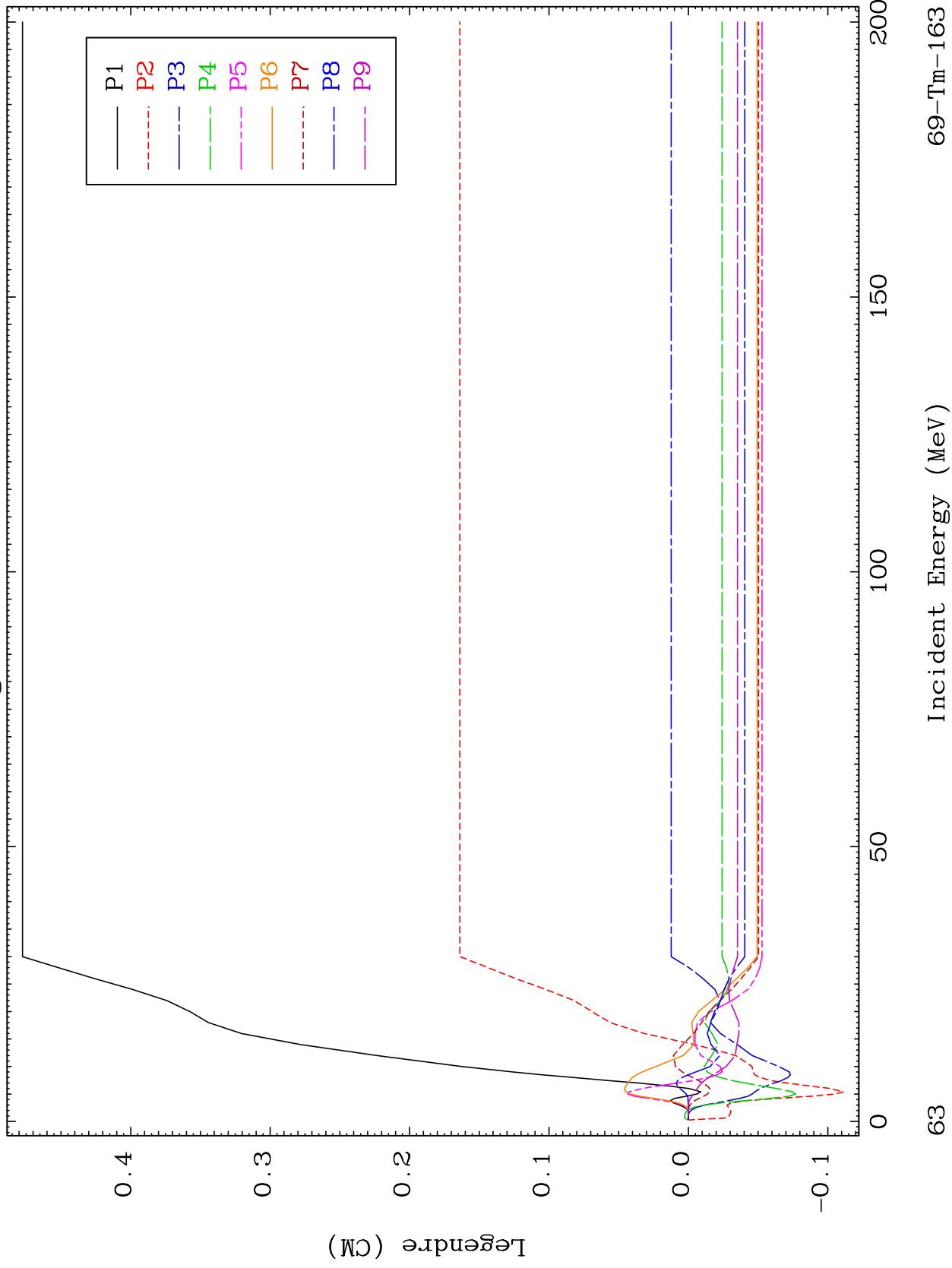
69-Tm-163



MAT 6907

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

69-Tm-163



69-Tm-163

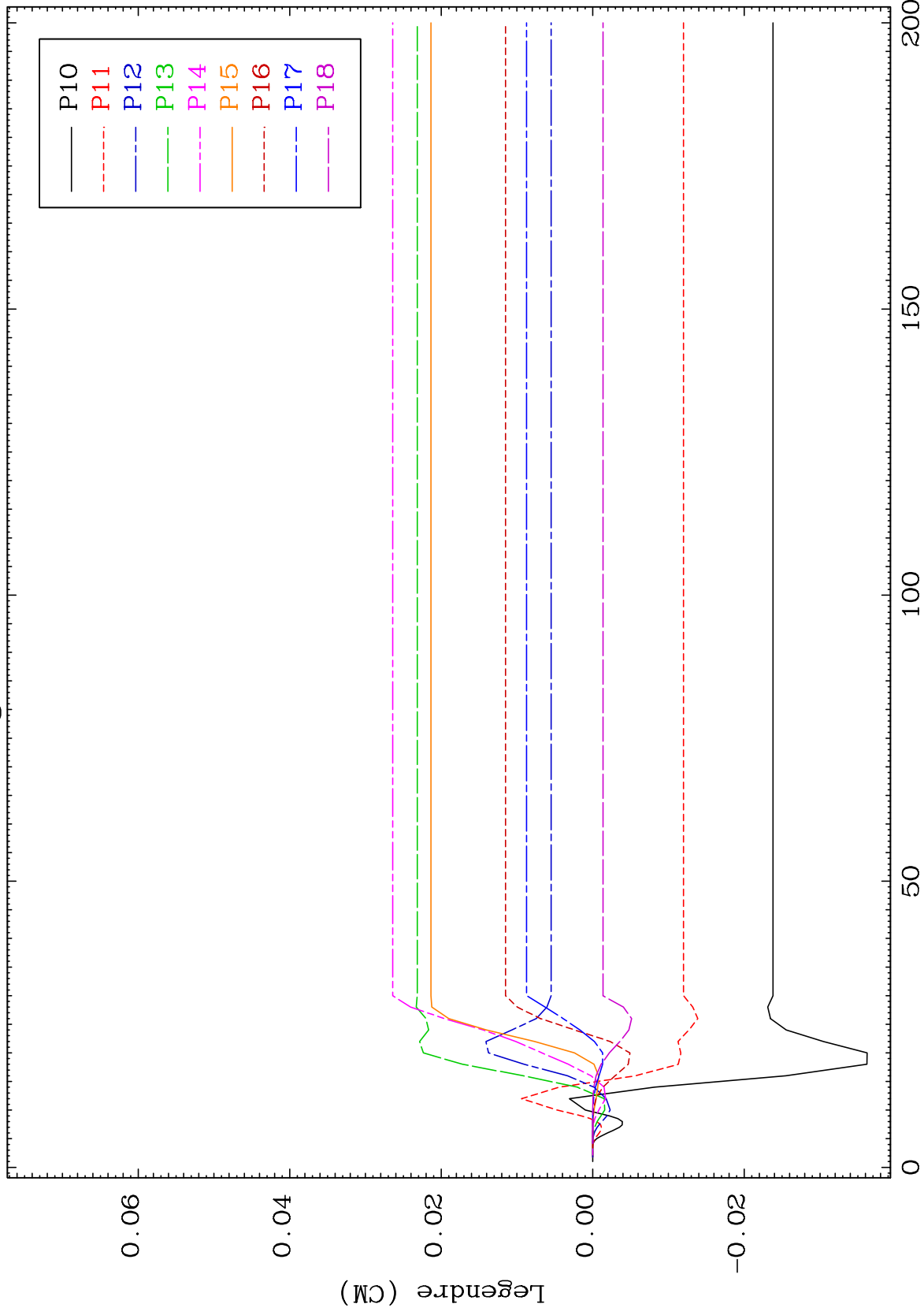
Incident Energy (MeV)

63

MAT 6907

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

69-Tm-163



Incident Energy (MeV)

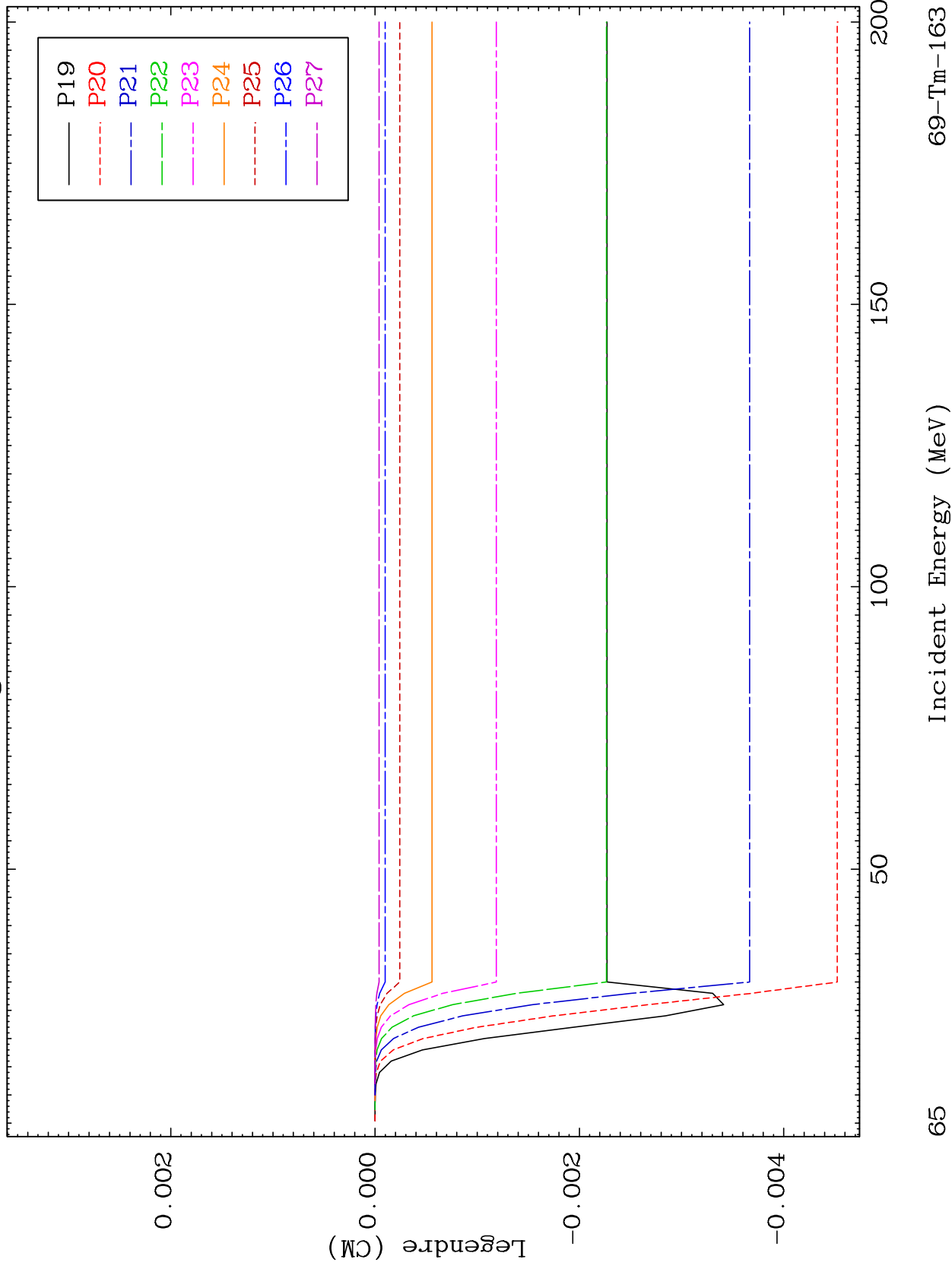
69-Tm-163

64

MAT 6907

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

69-Tm-163



65

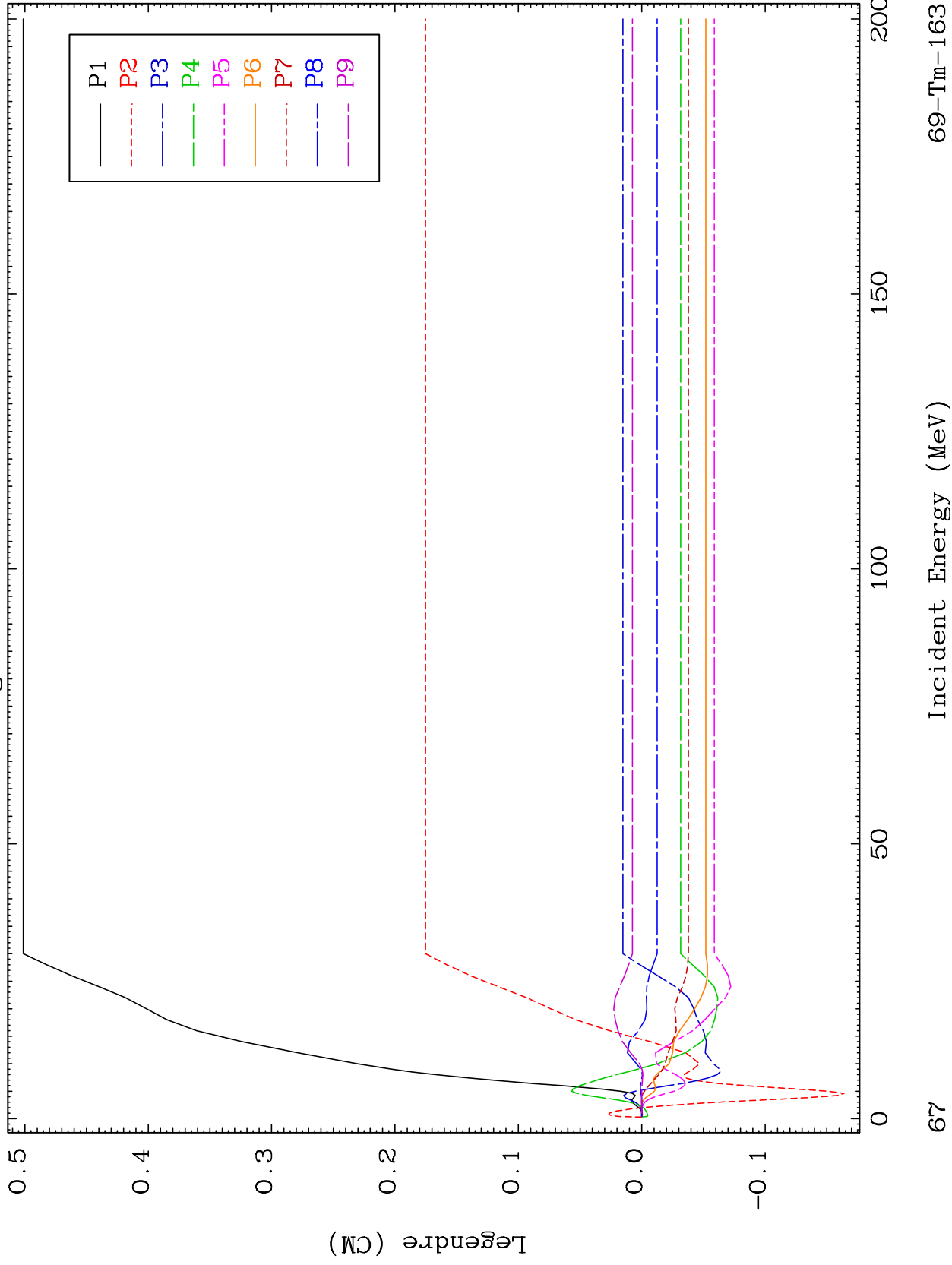
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



69-Tm-163

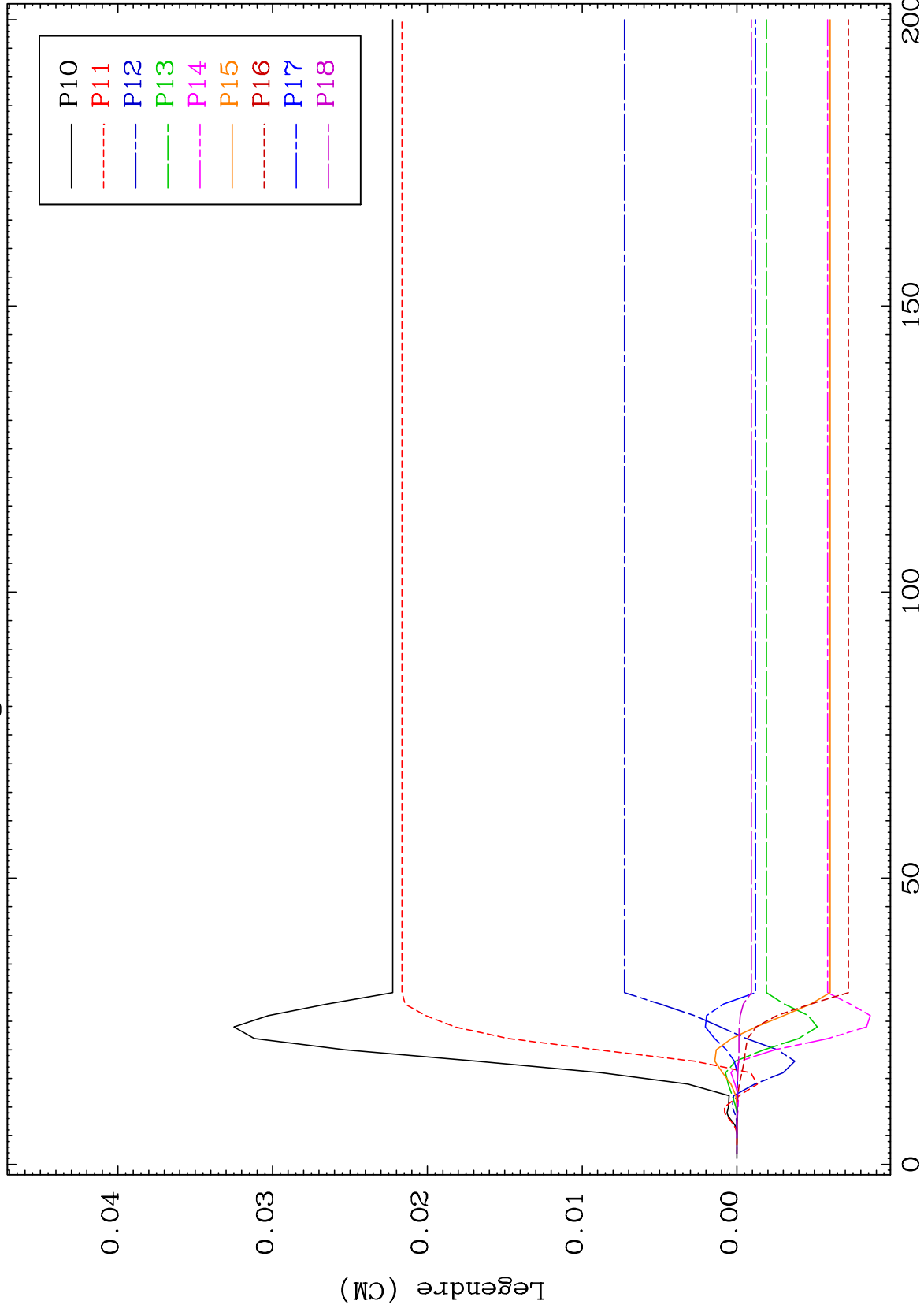
Incident Energy (MeV)

67

MAT 6907

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

69-Tm-163



68

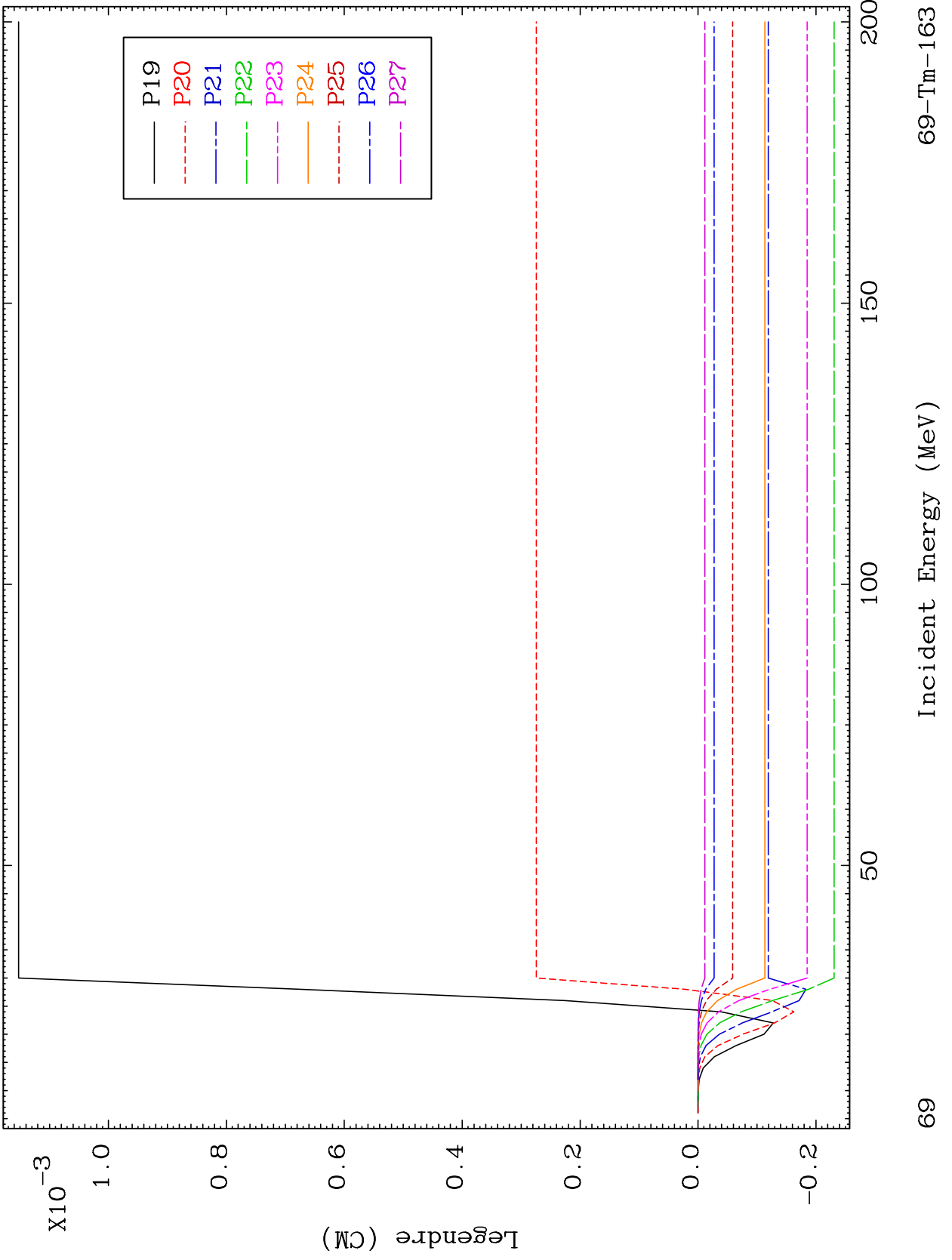
Incident Energy (MeV)

69-Tm-163

MAT 6907

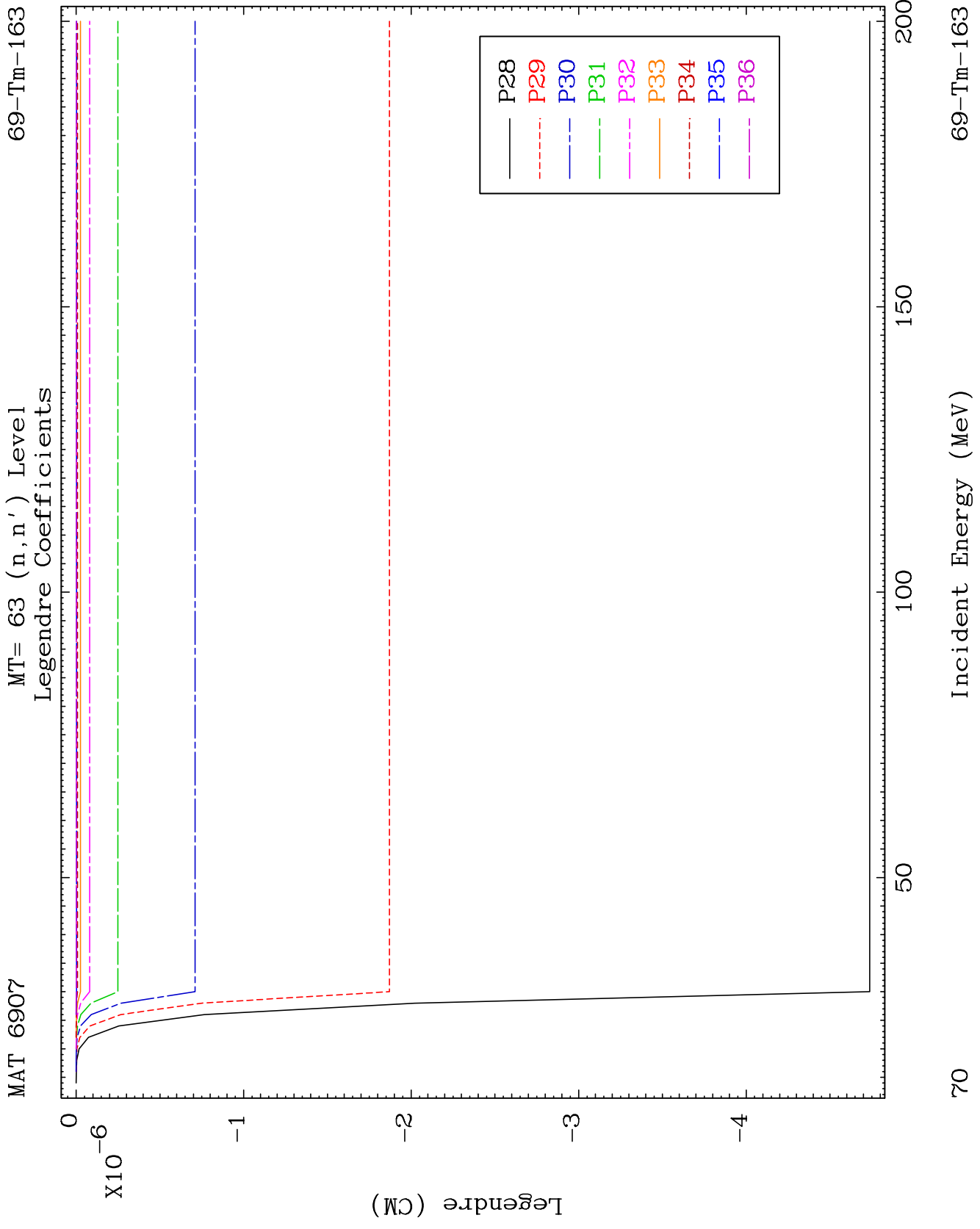
MT= 63 (n,n') Level
Legendre Coefficients

69-Tm-163



69

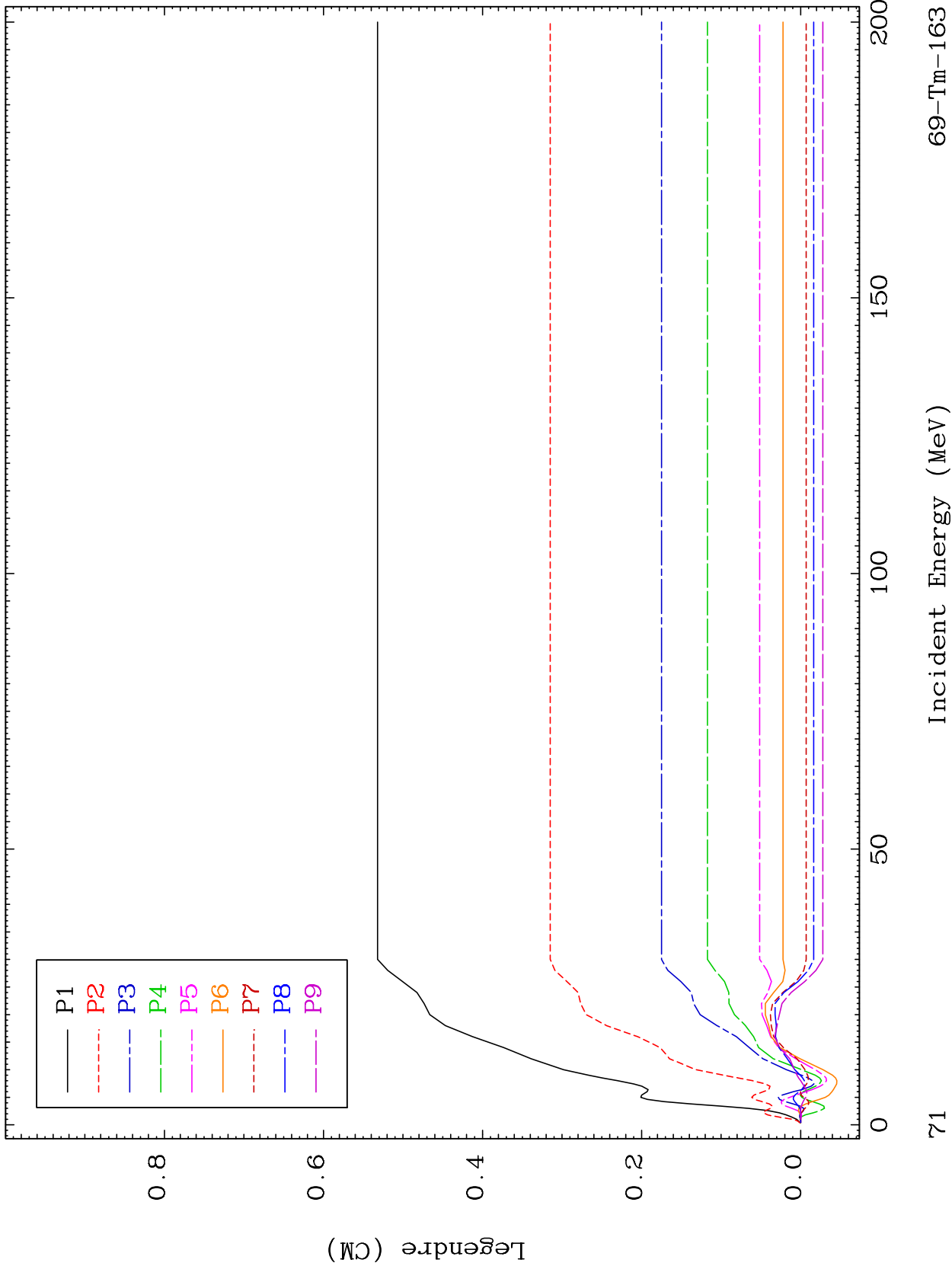
69-Tm-163



MAT 6907

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

69-Tm-163



71

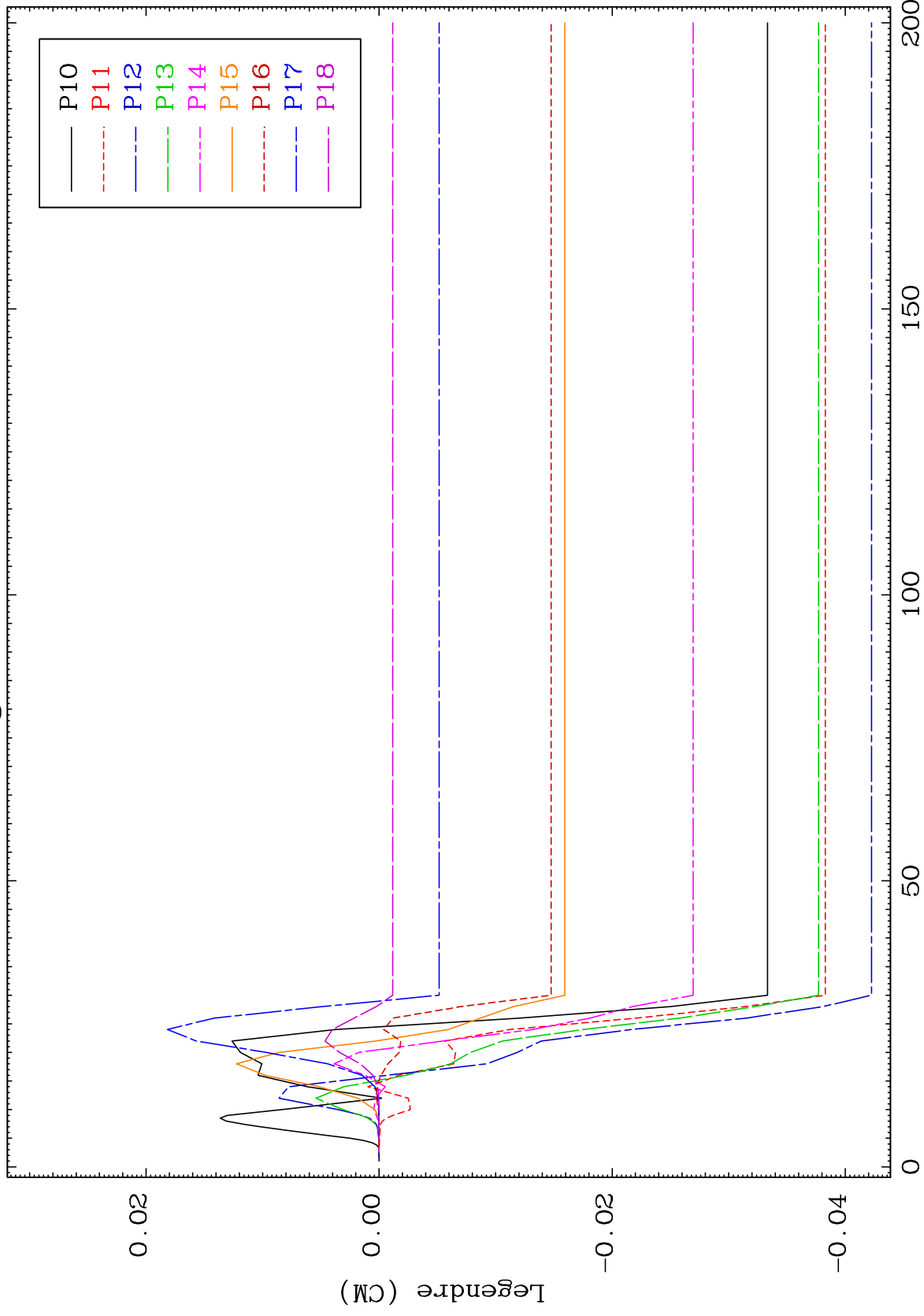
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



72

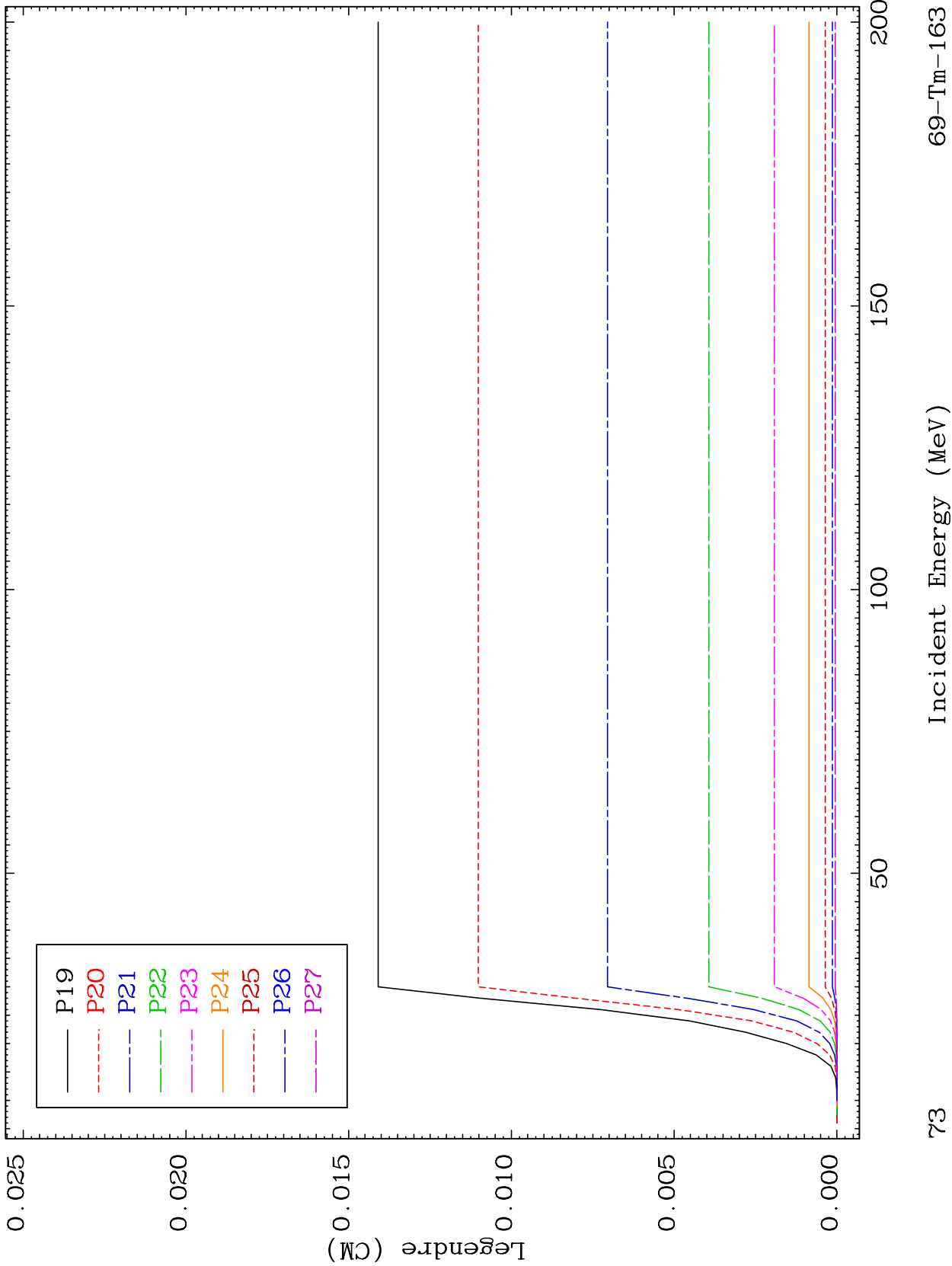
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



73

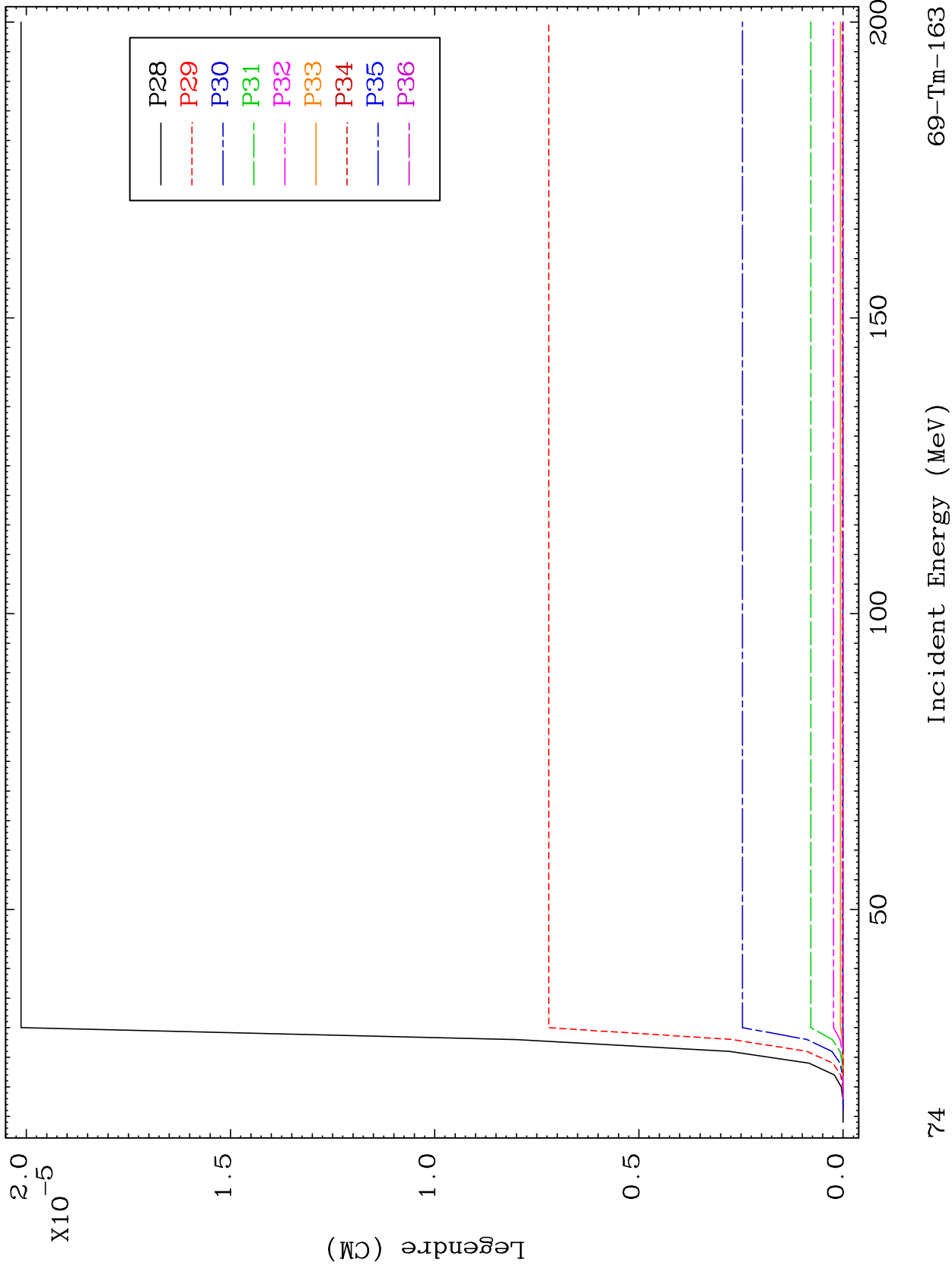
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

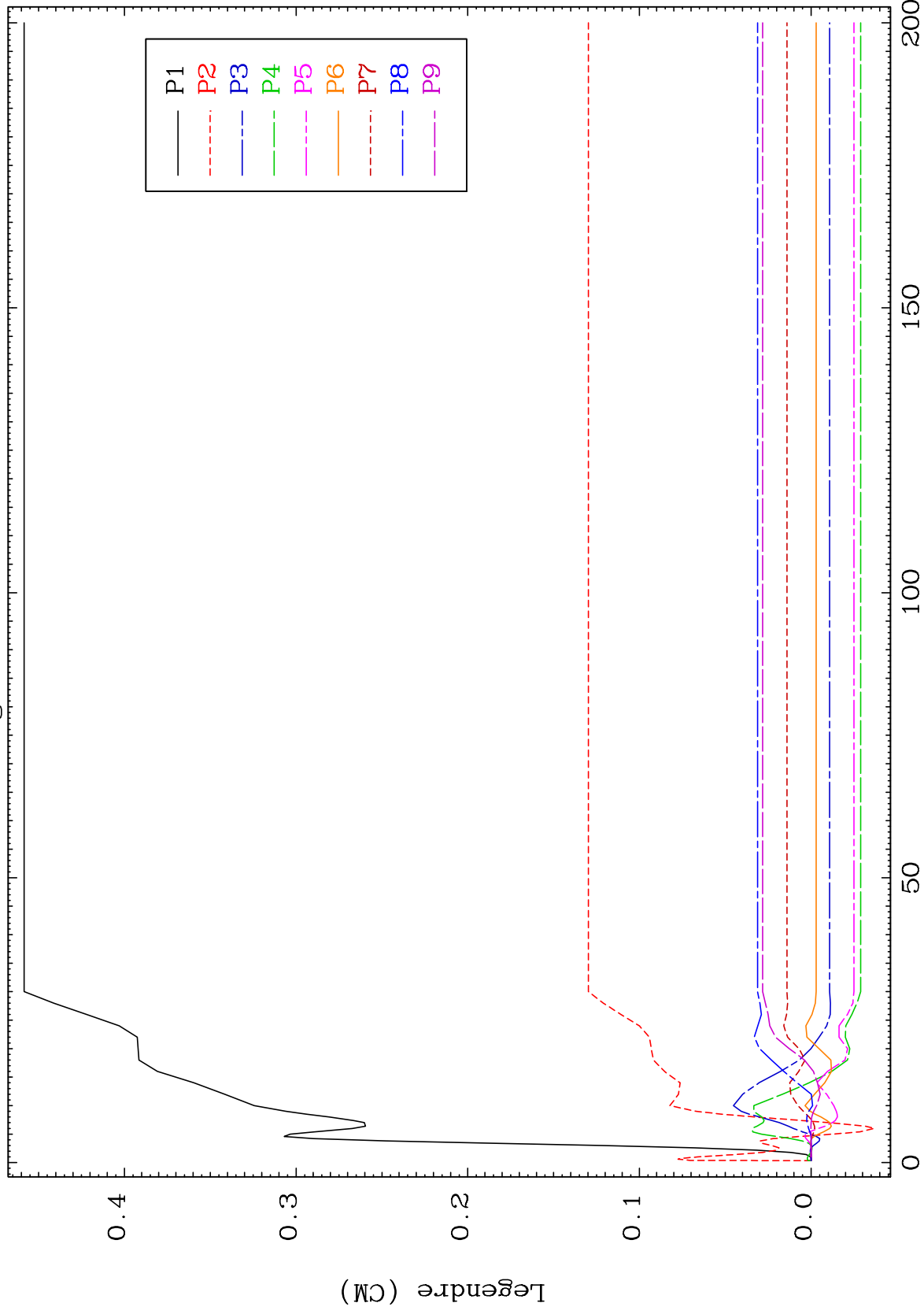
69-Tm-163



MAT 6907

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

69-Tm-163



75

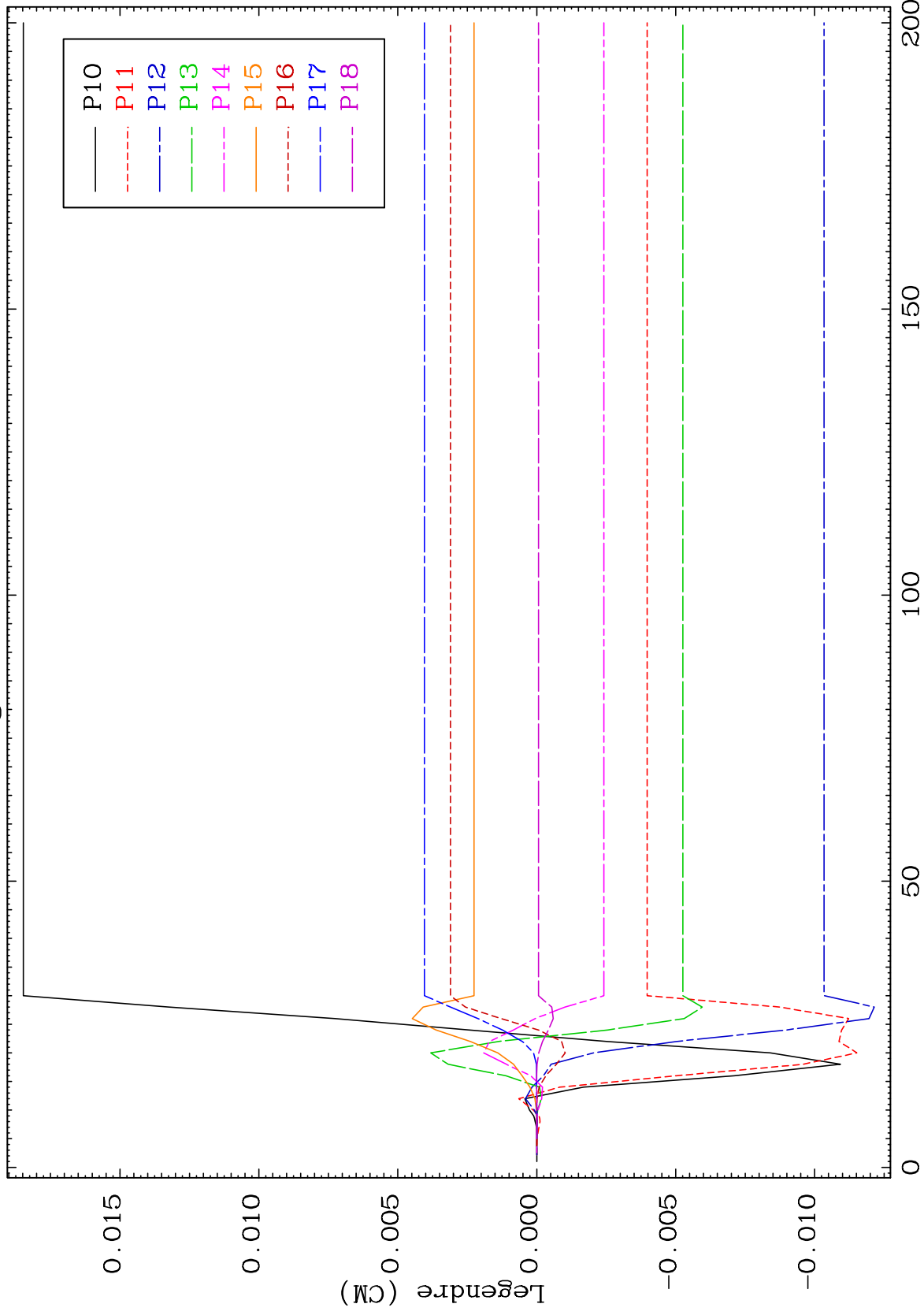
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

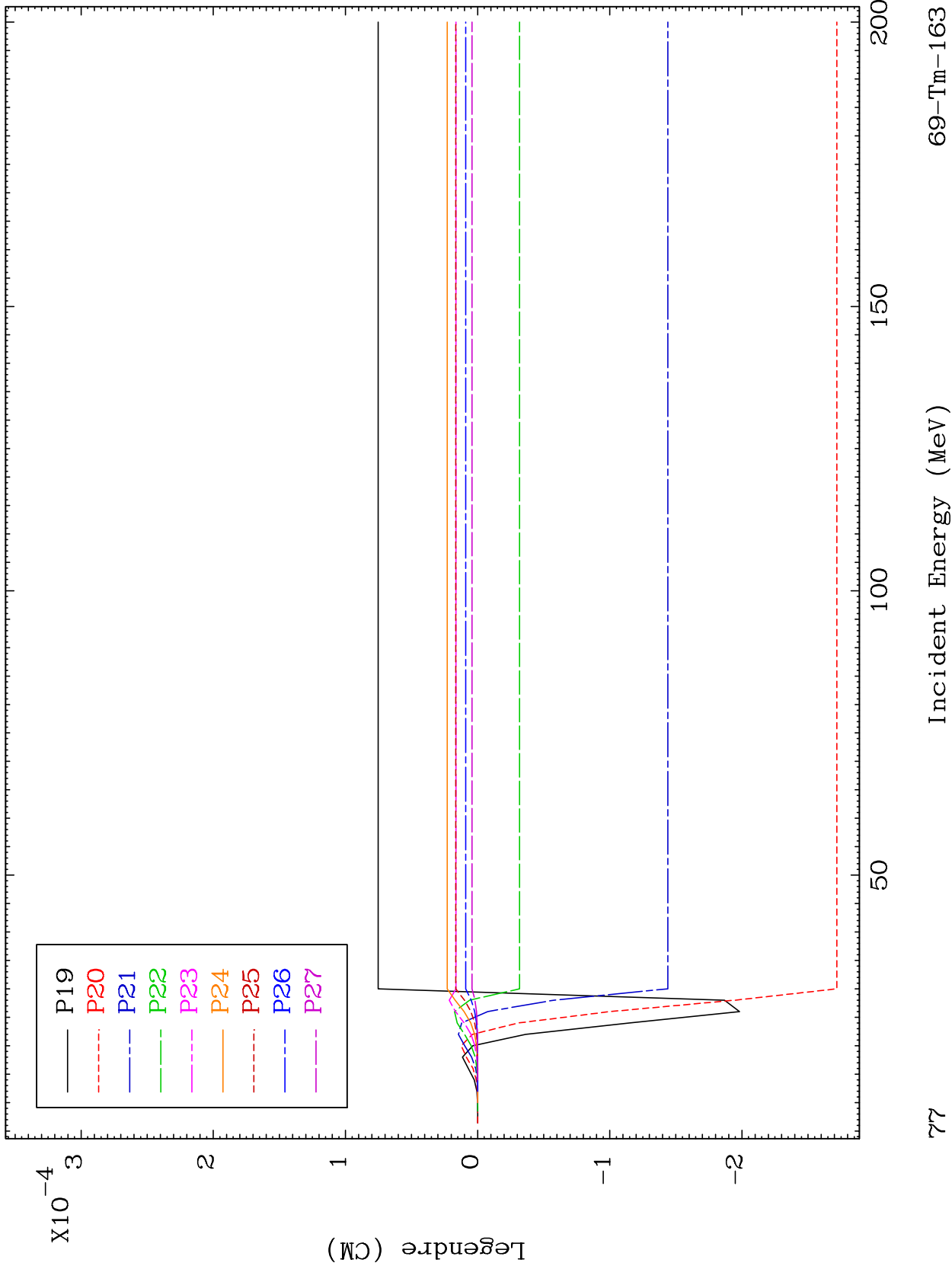
69-Tm-163



76

Incident Energy (MeV)

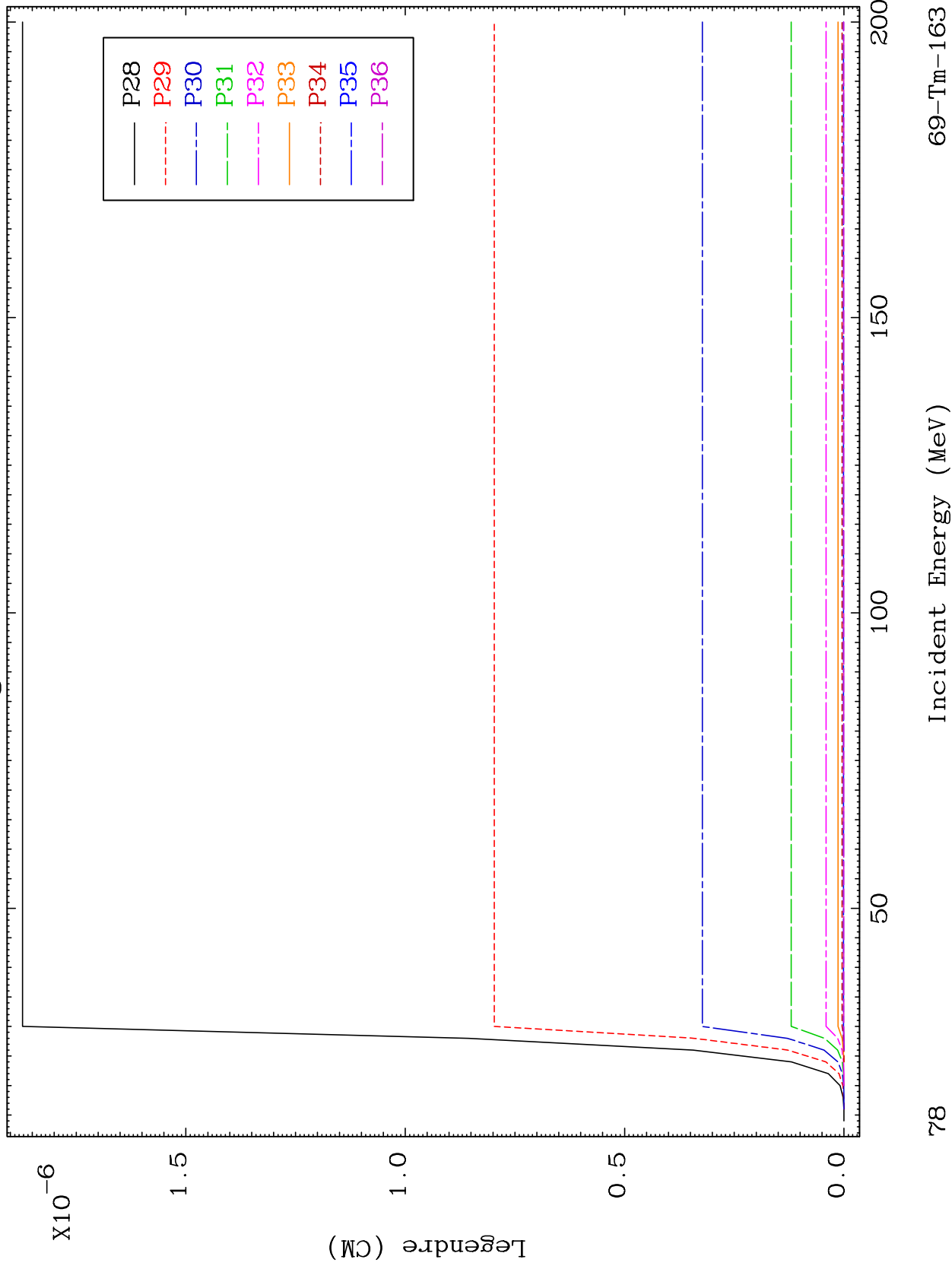
69-Tm-163



MAT 6907

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

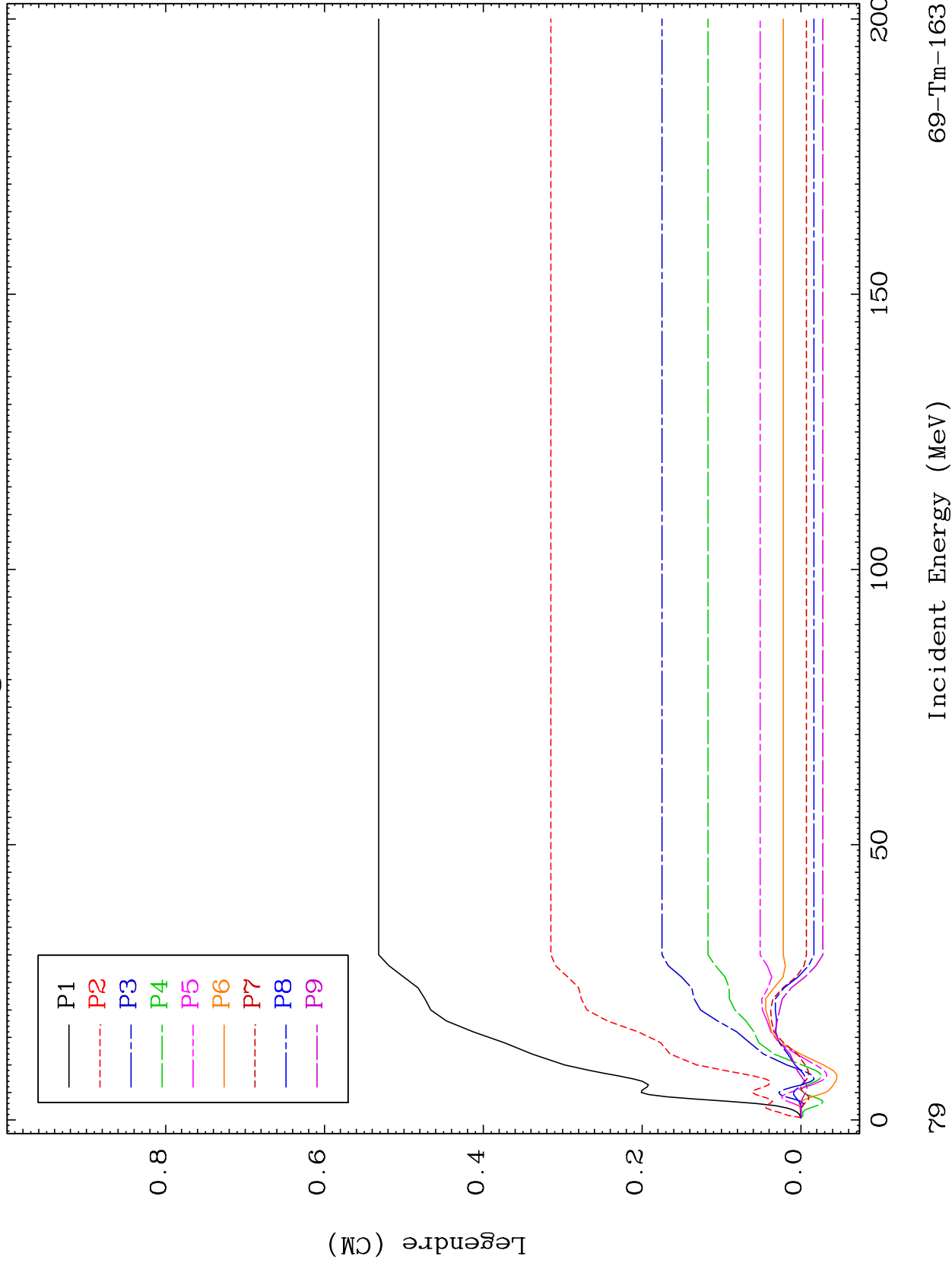
69-Tm-163



MAT 6907

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

69-Tm-163



79

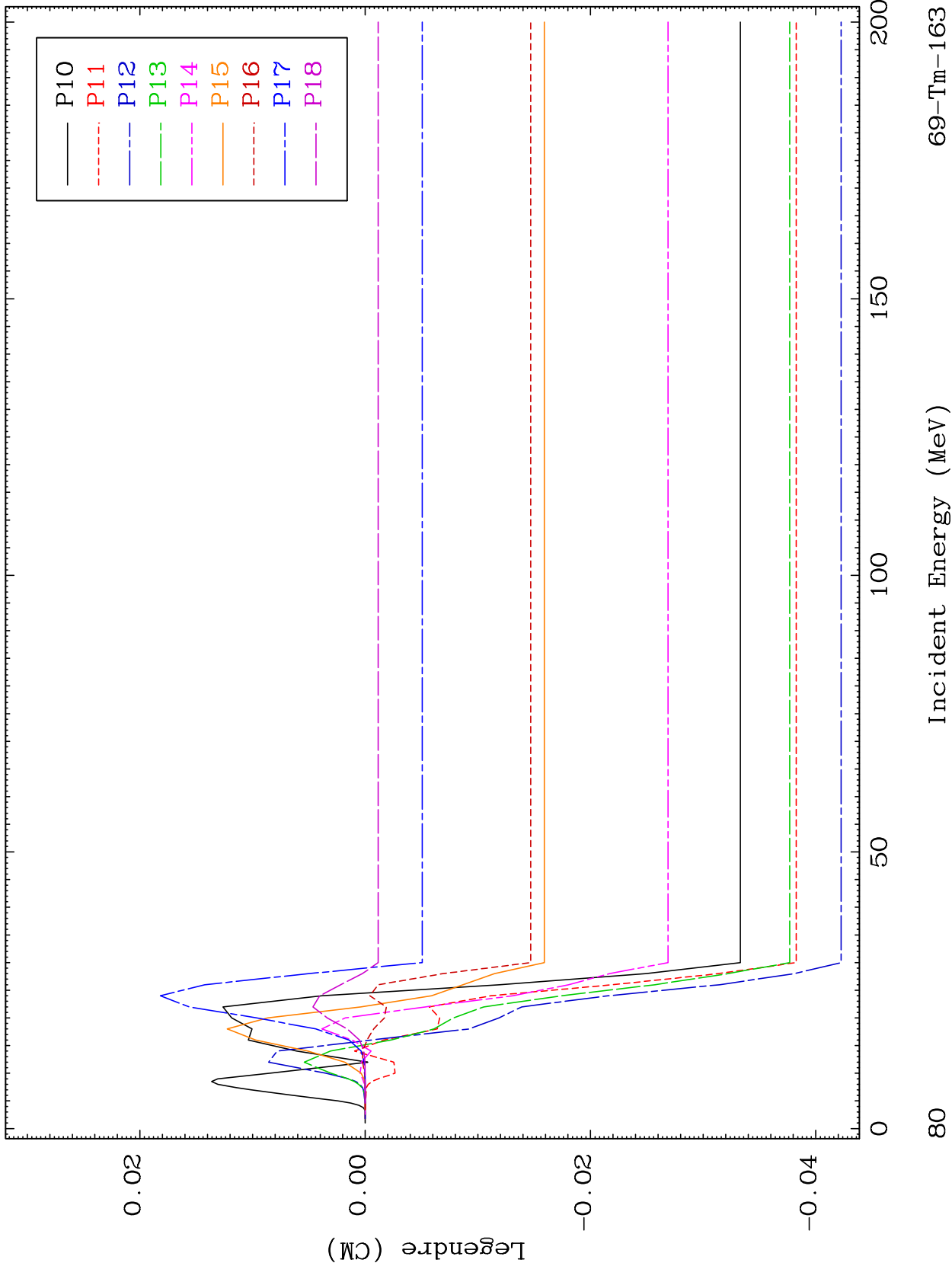
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



69-Tm-163

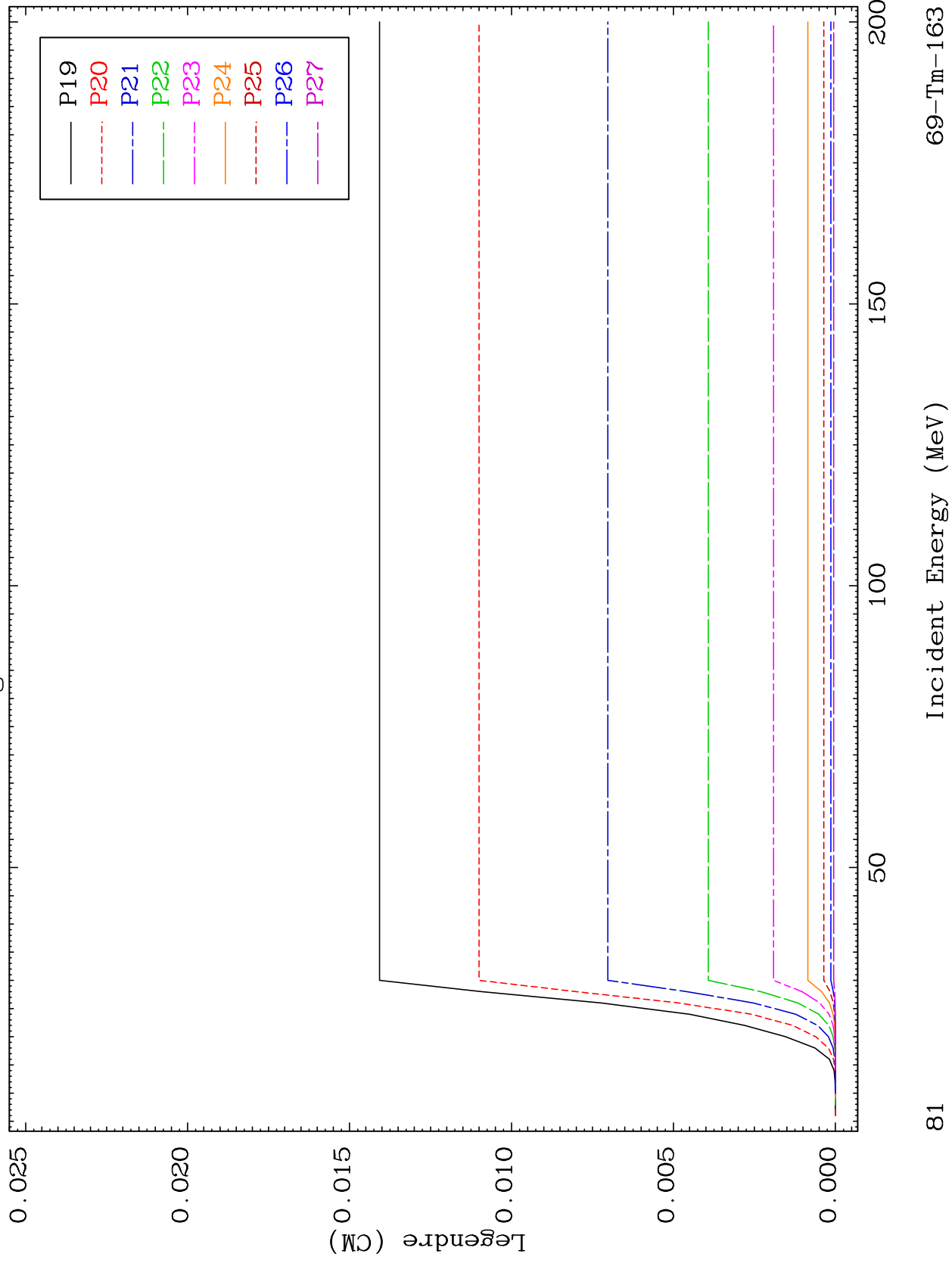
Incident Energy (MeV)

80

MAT 6907

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

69-Tm-163



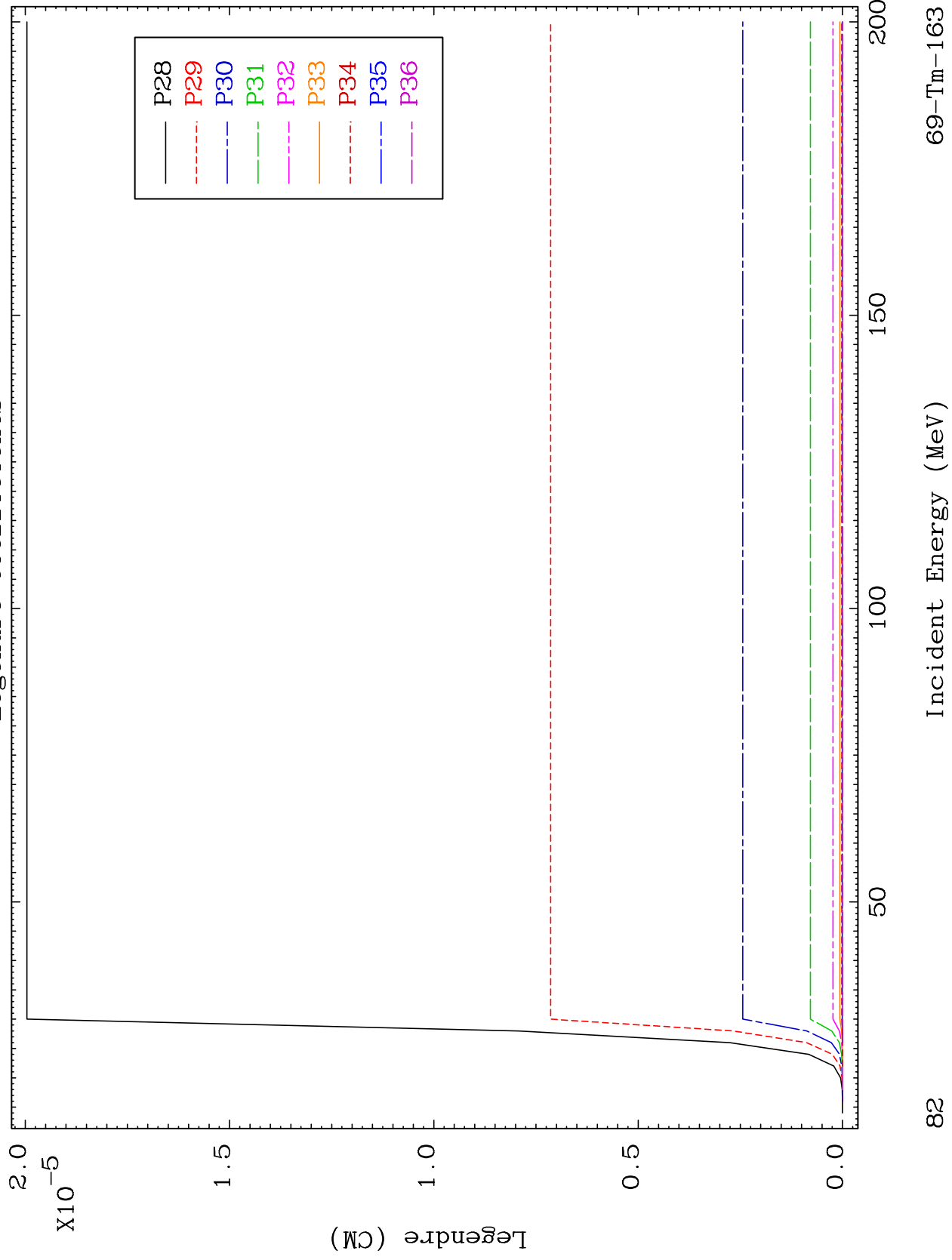
81

69-Tm-163

MAT 6907

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

69-Tm-163

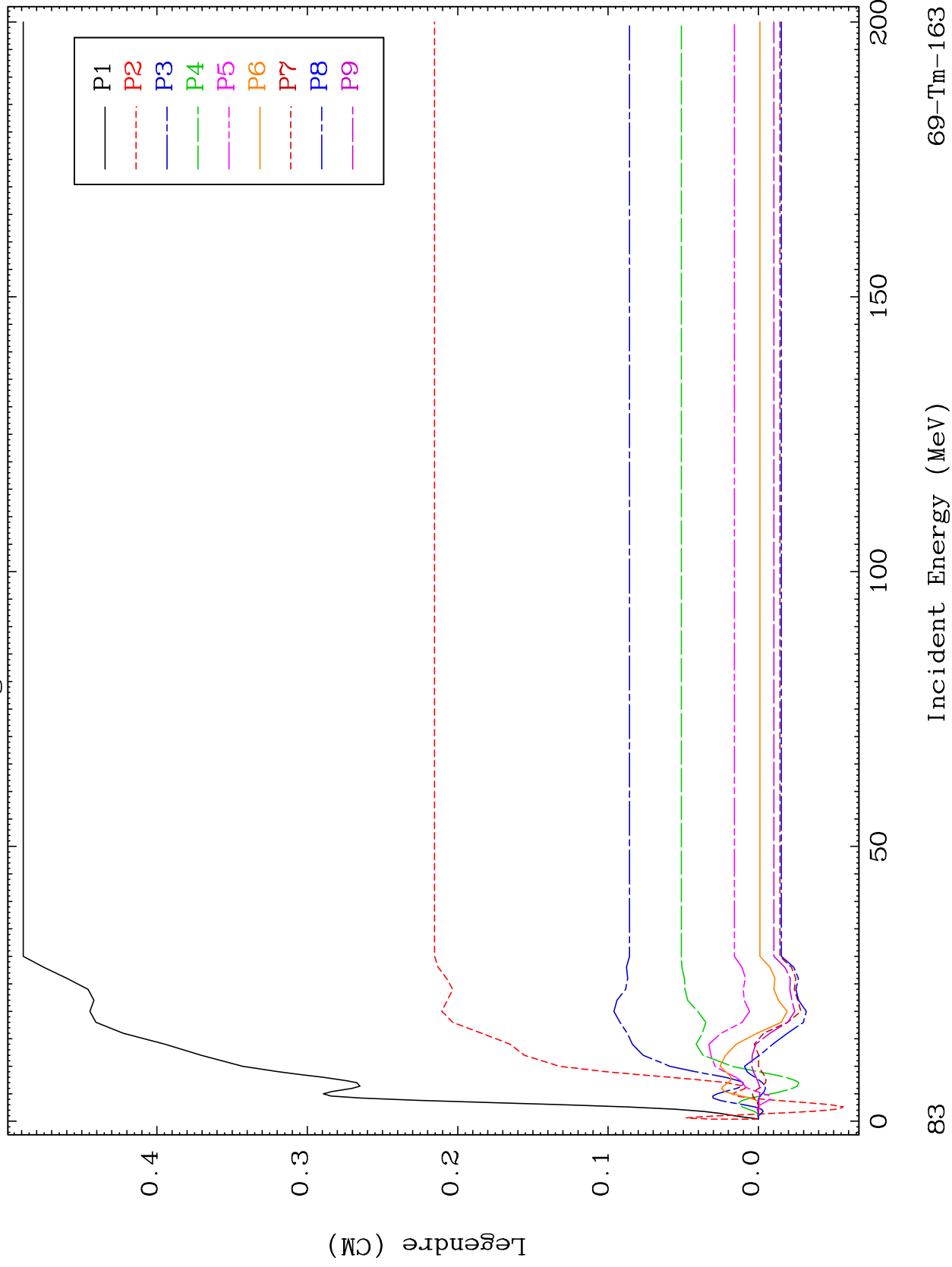


82

MAT 6907

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

69-Tm-163



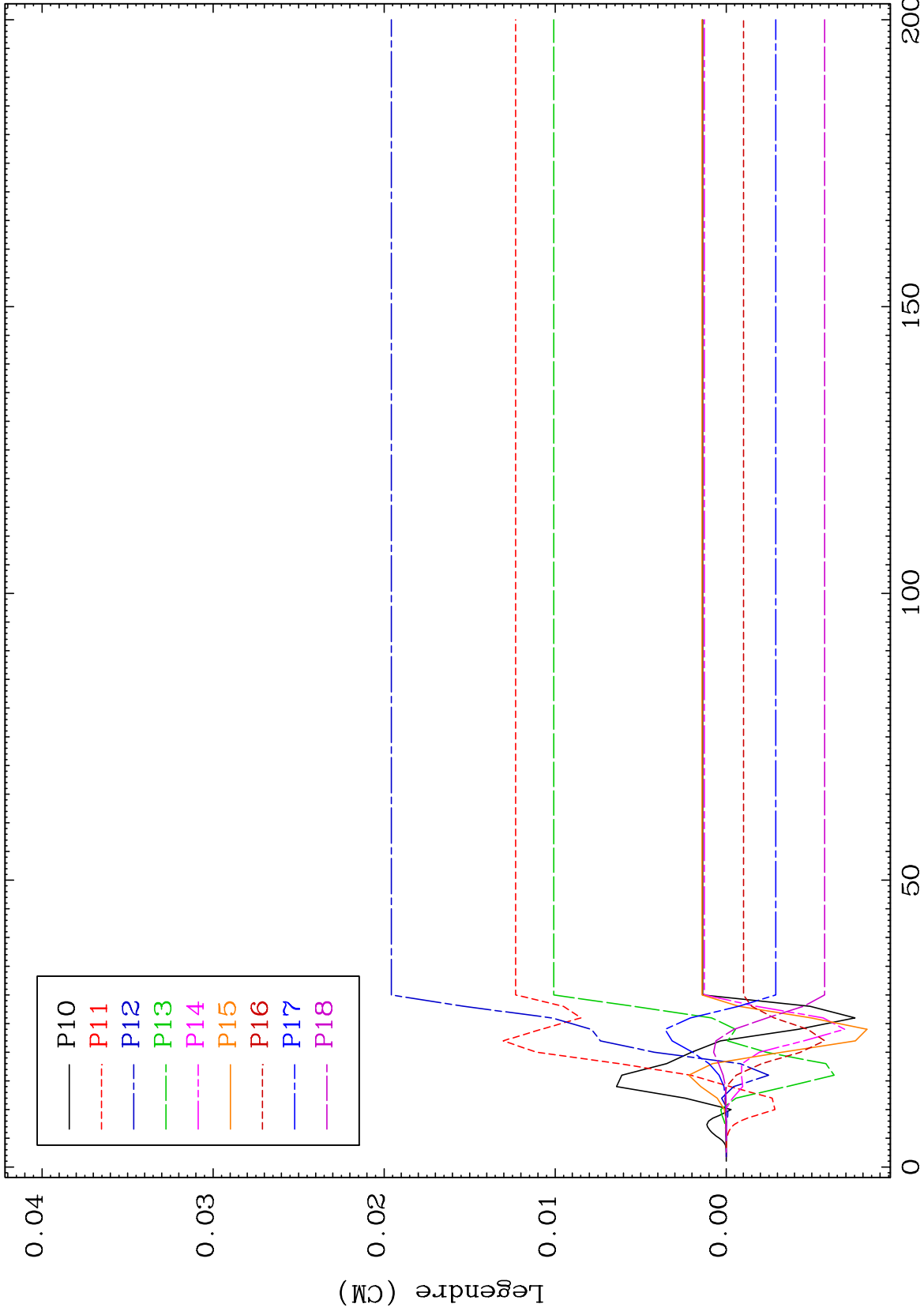
83

69-Tm-163

MAT 6907

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

69-Tm-163



84

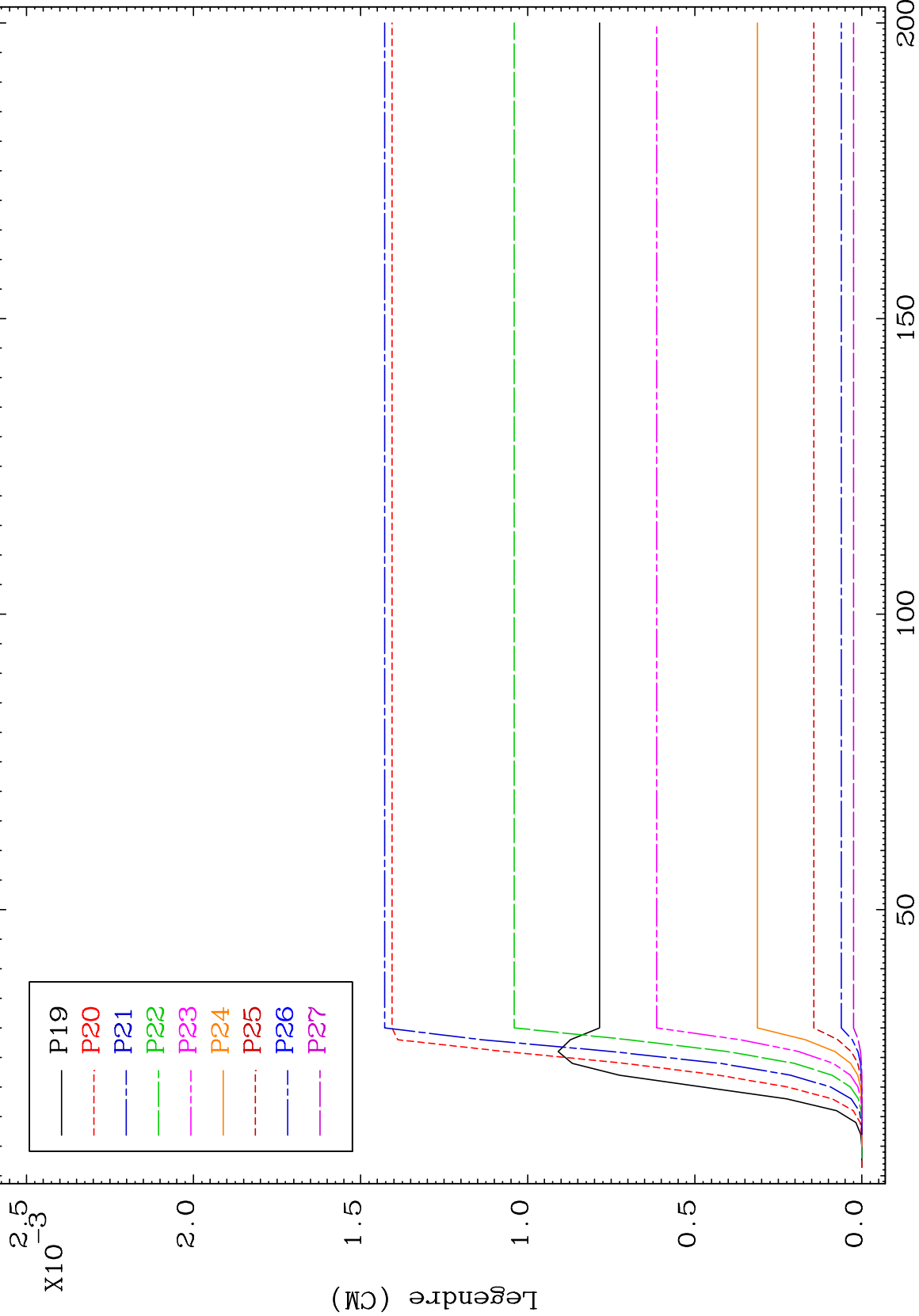
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



85

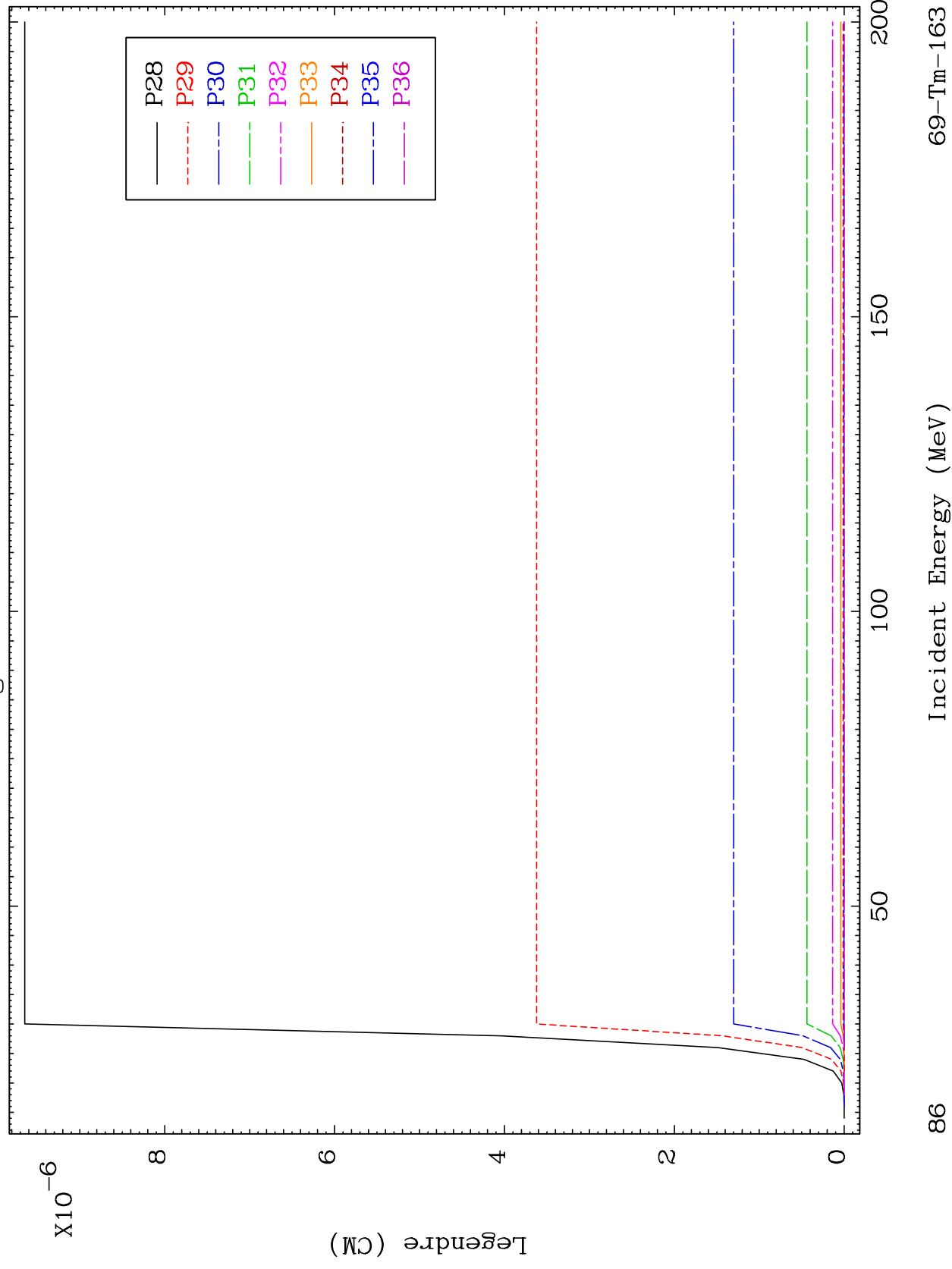
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

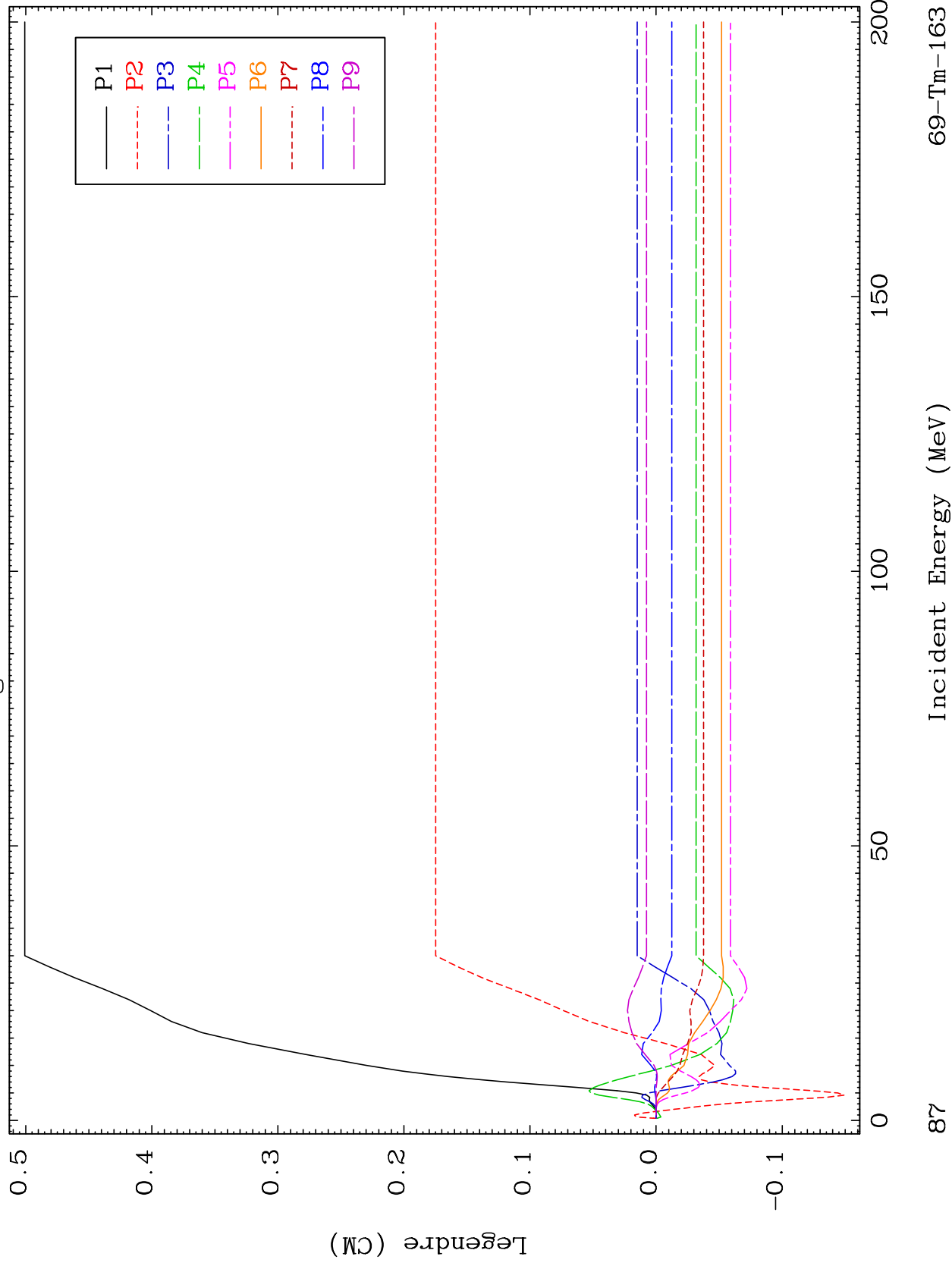
69-Tm-163



MAT 6907

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

69-Tm-163



87

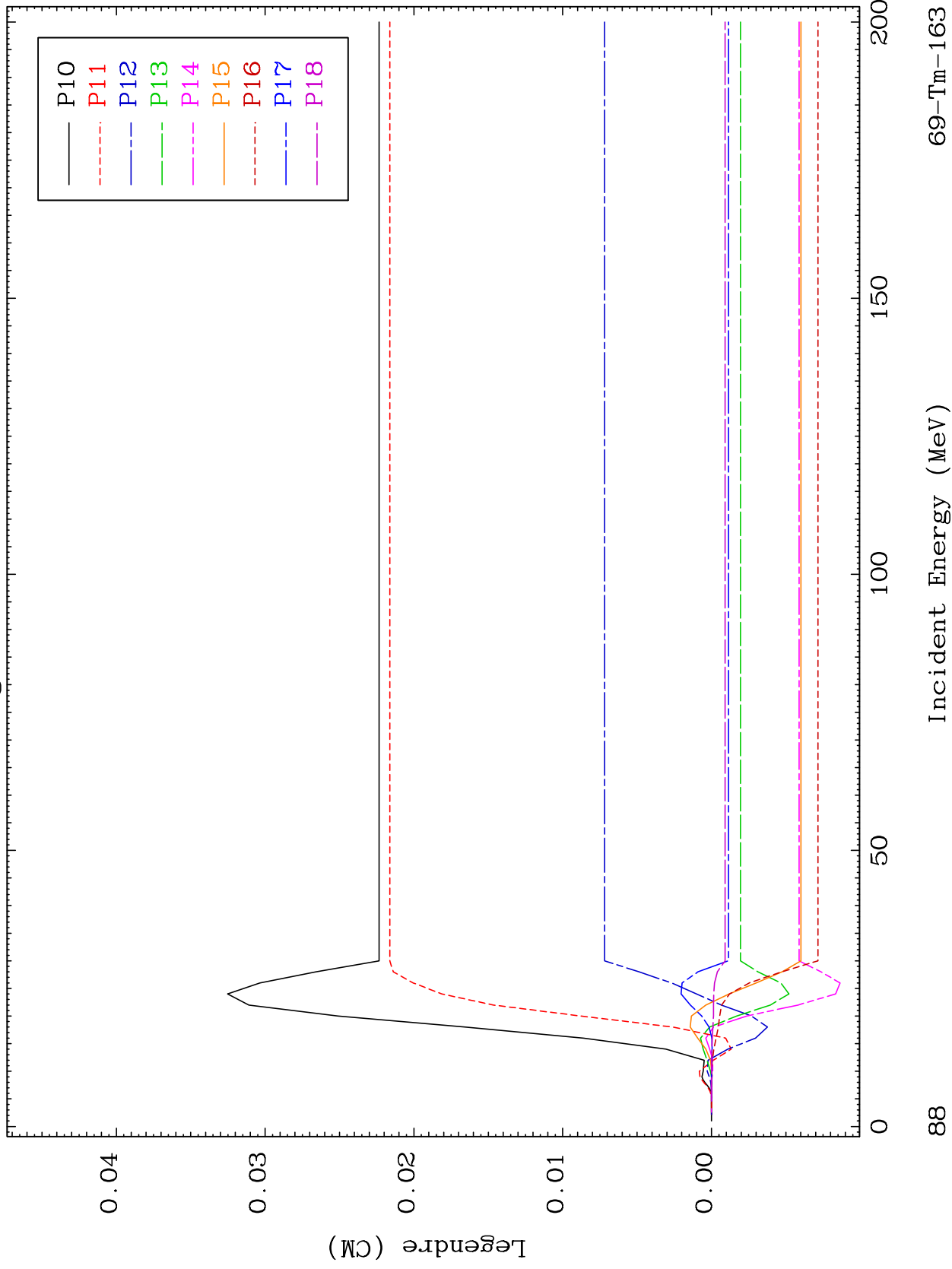
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



88

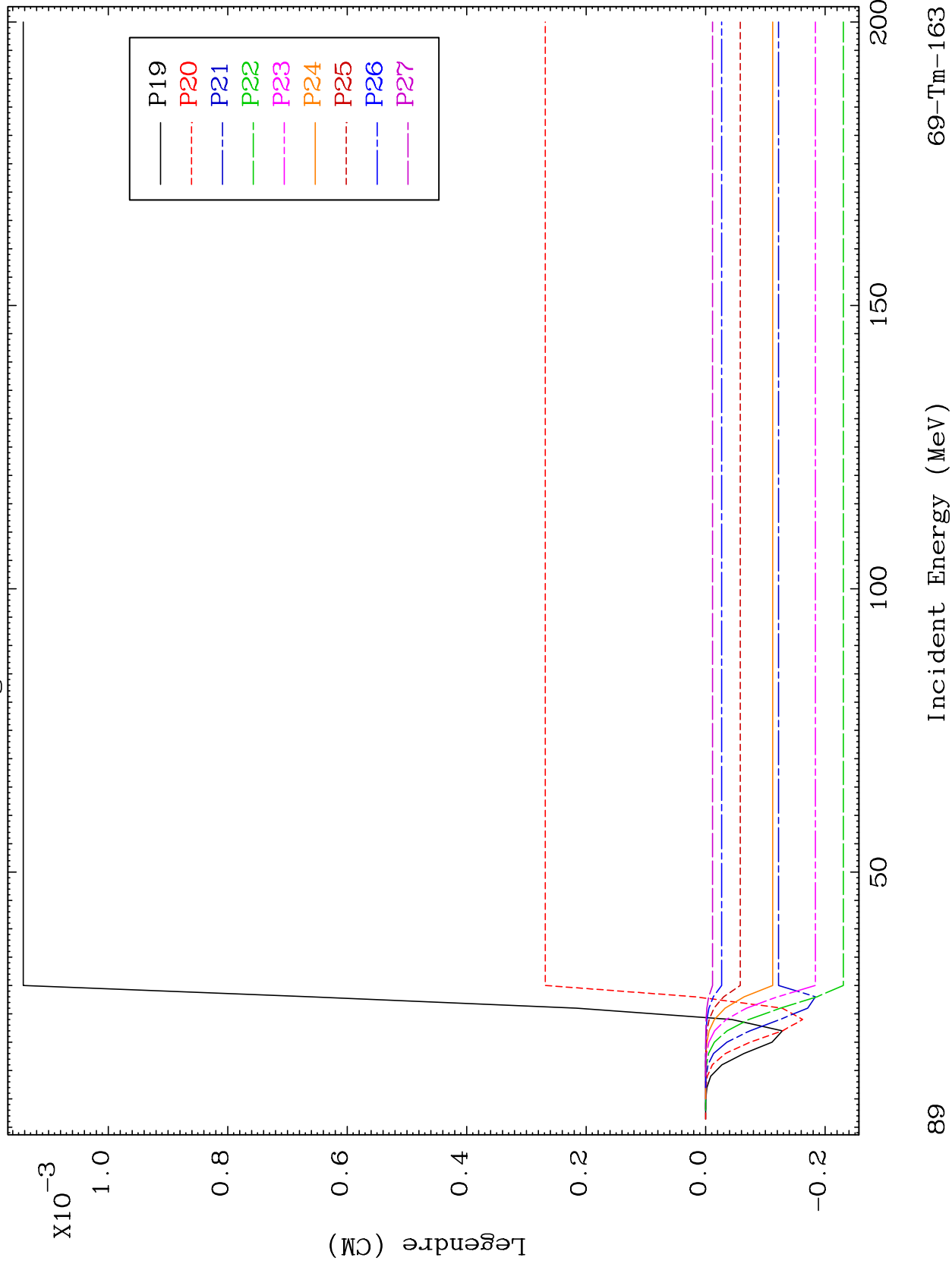
Incident Energy (MeV)

69-Tm-163

MAT 6907

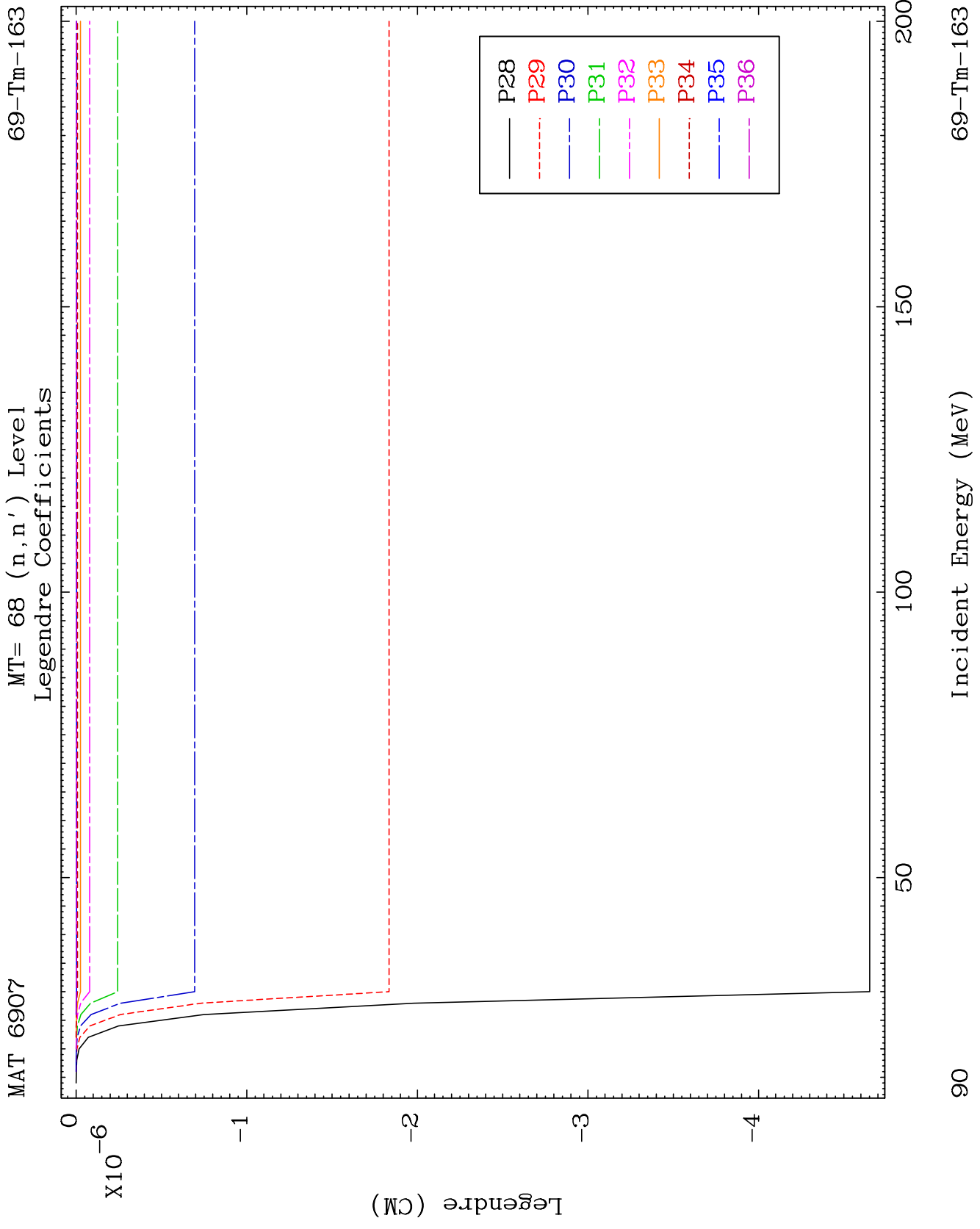
MT= 68 (n,n') Level
Legendre Coefficients

69-Tm-163



89

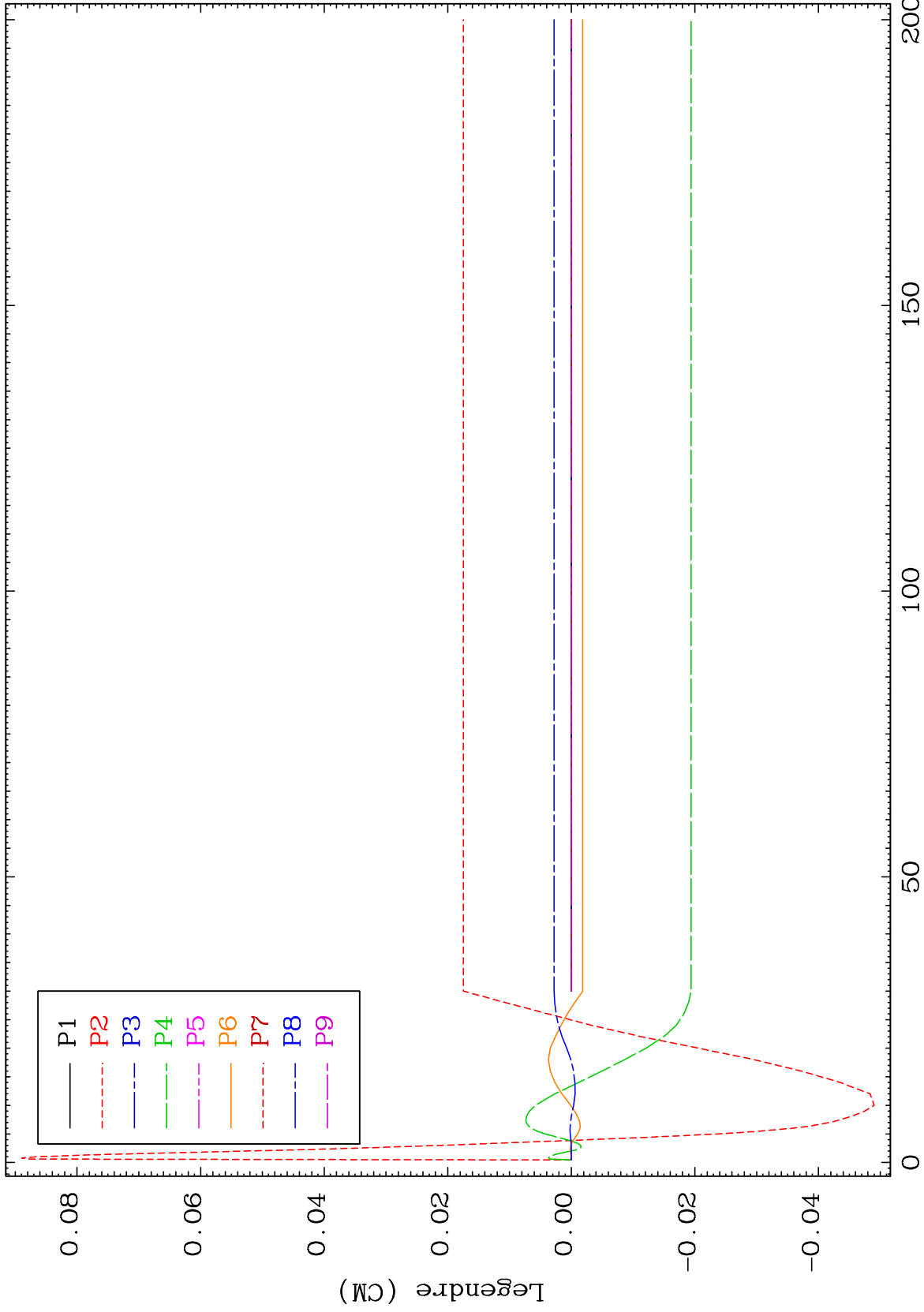
69-Tm-163



MAT 6907

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

69-Tm-163



91

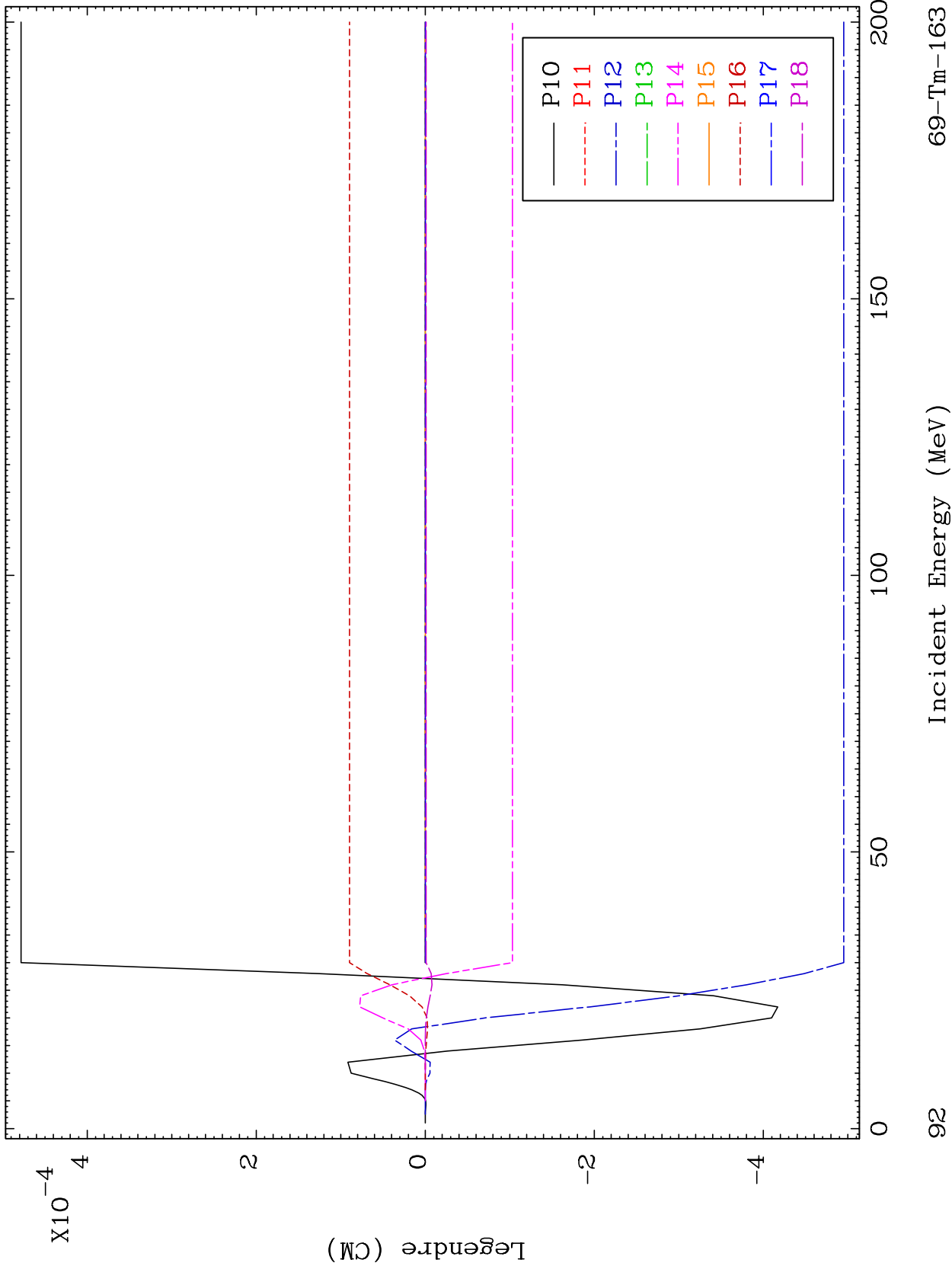
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

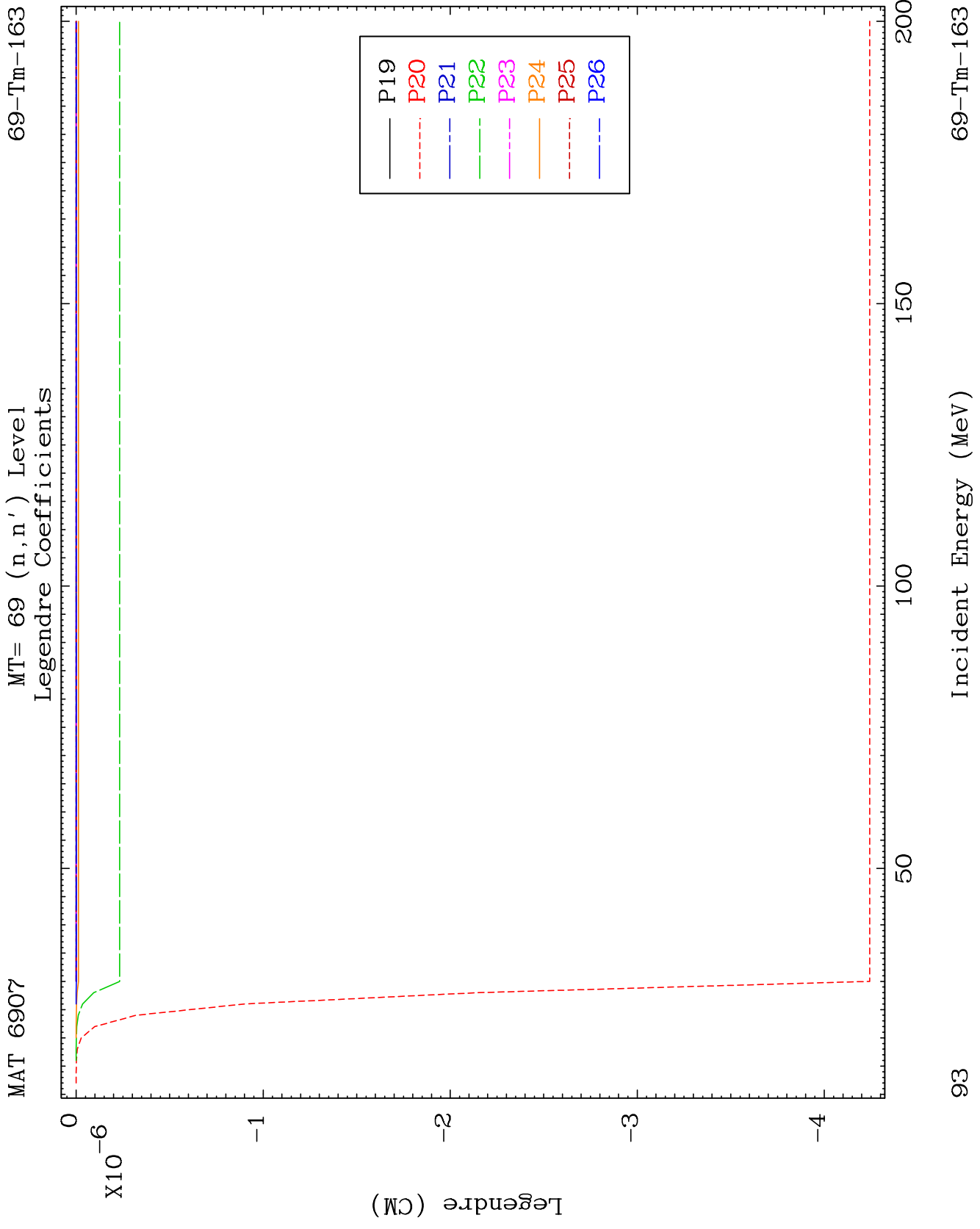
69-Tm-163



69-Tm-163

Incident Energy (MeV)

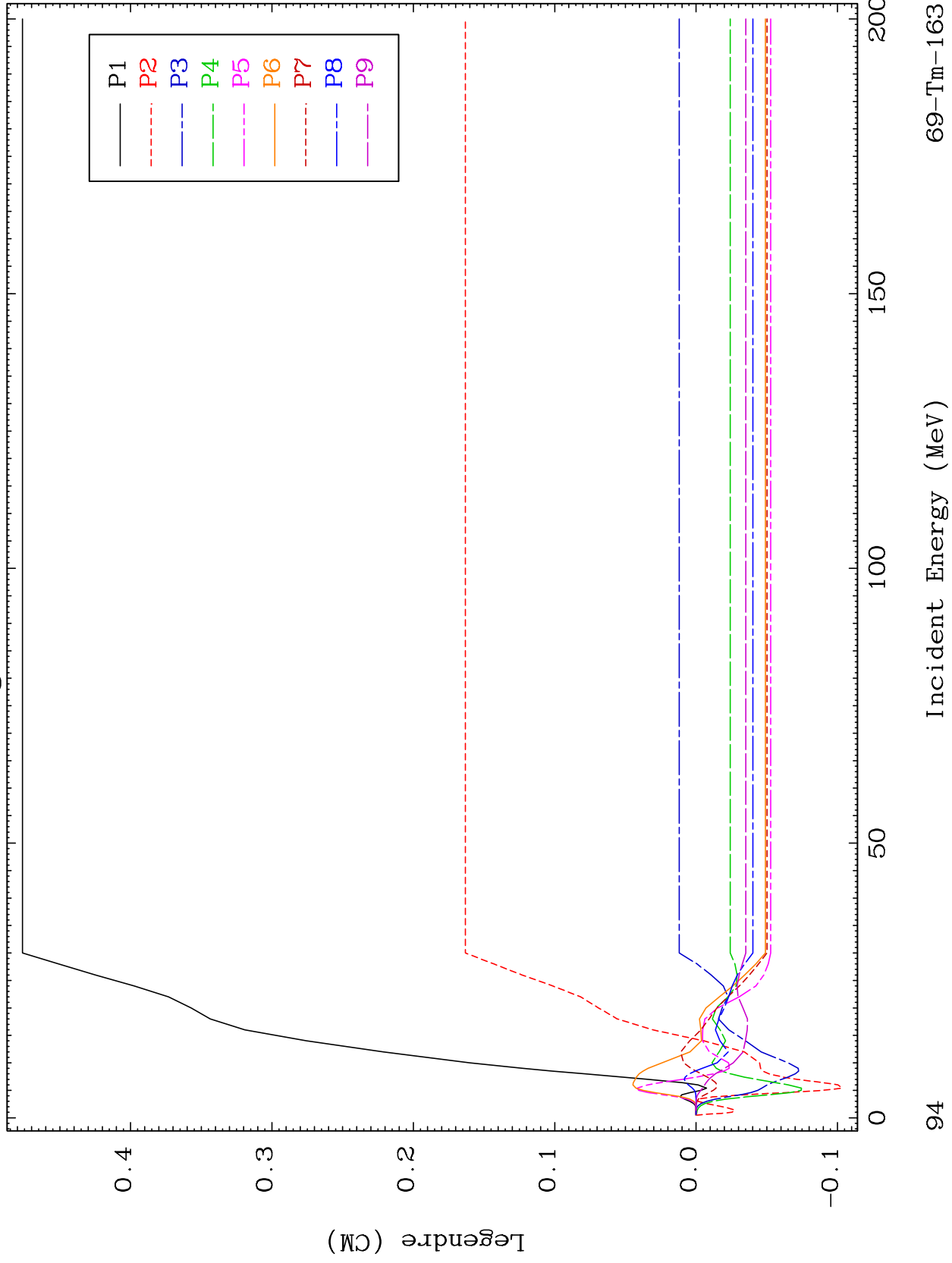
92



MAT 6907

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

69-Tm-163



69-Tm-163

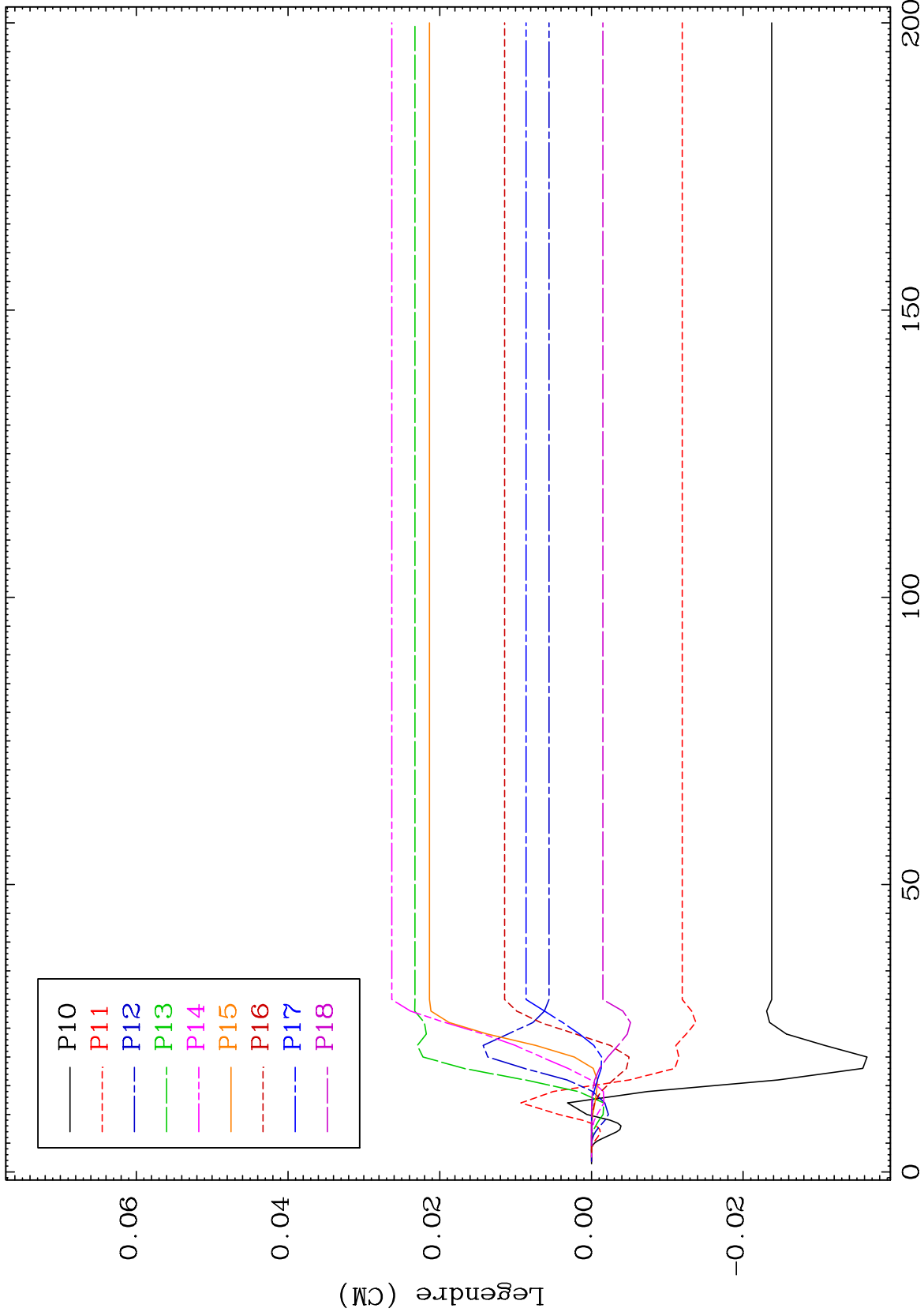
Incident Energy (MeV)

94

MAT 6907

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

69-Tm-163



95

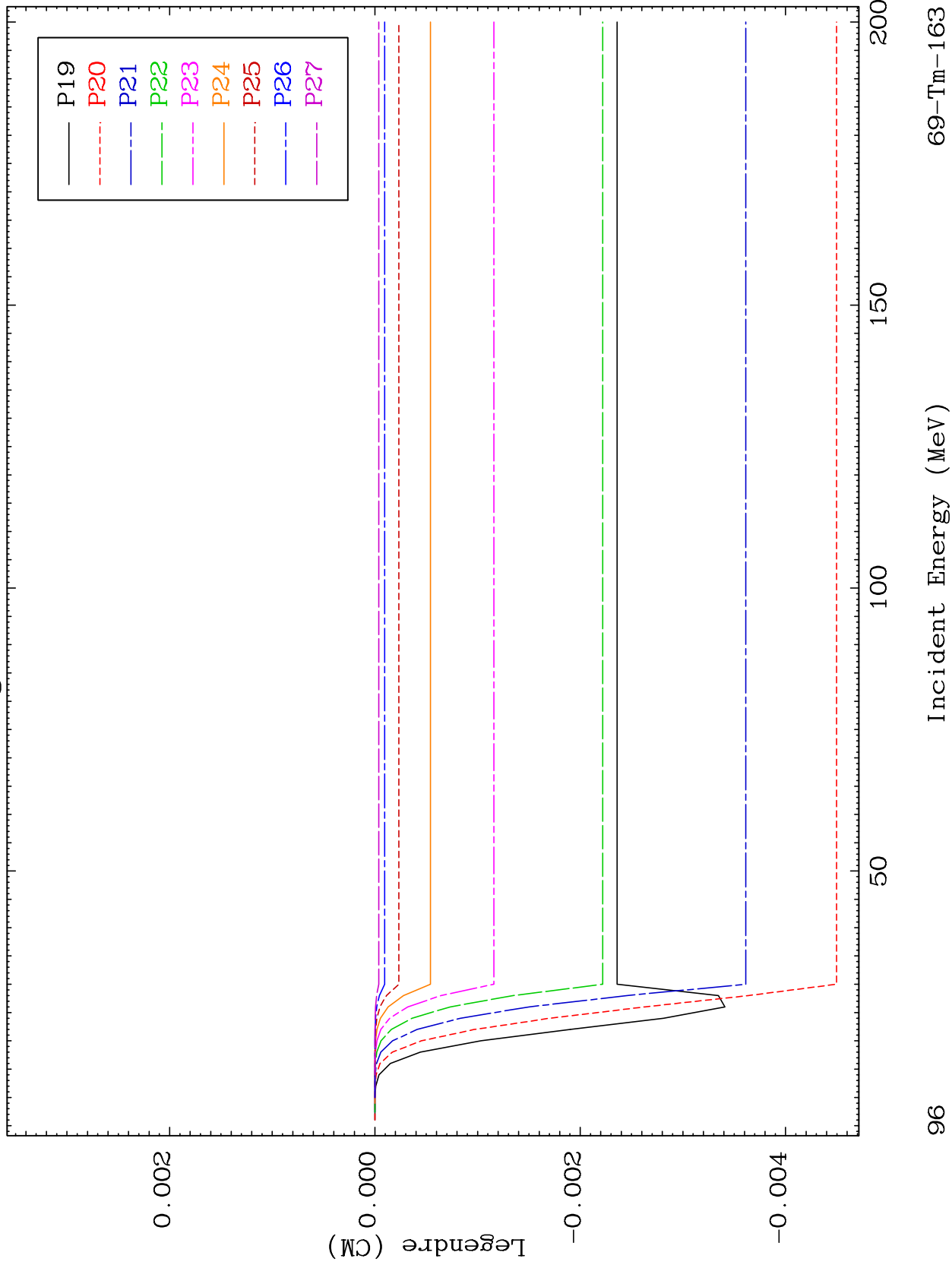
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

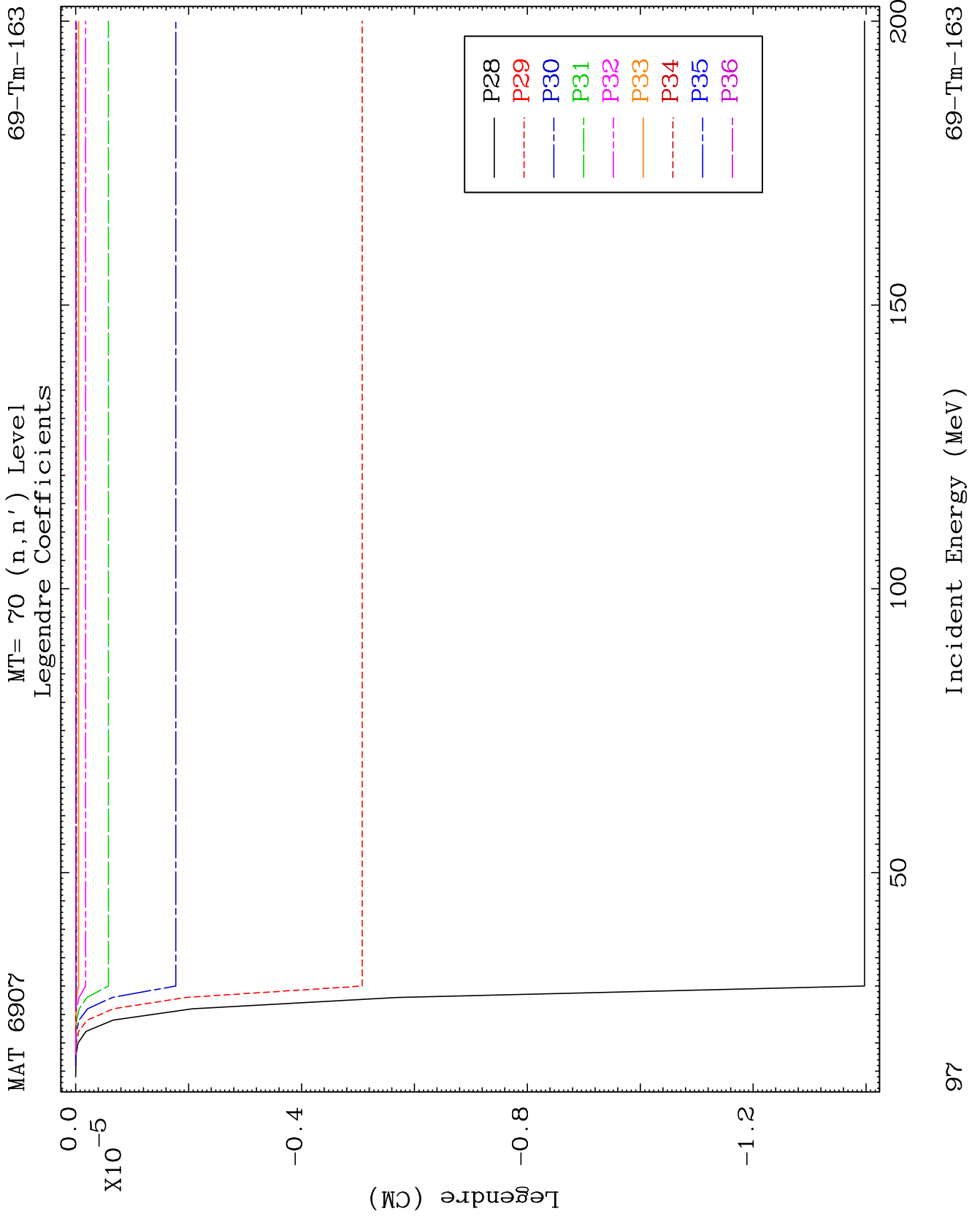
69-Tm-163



96

Incident Energy (MeV)

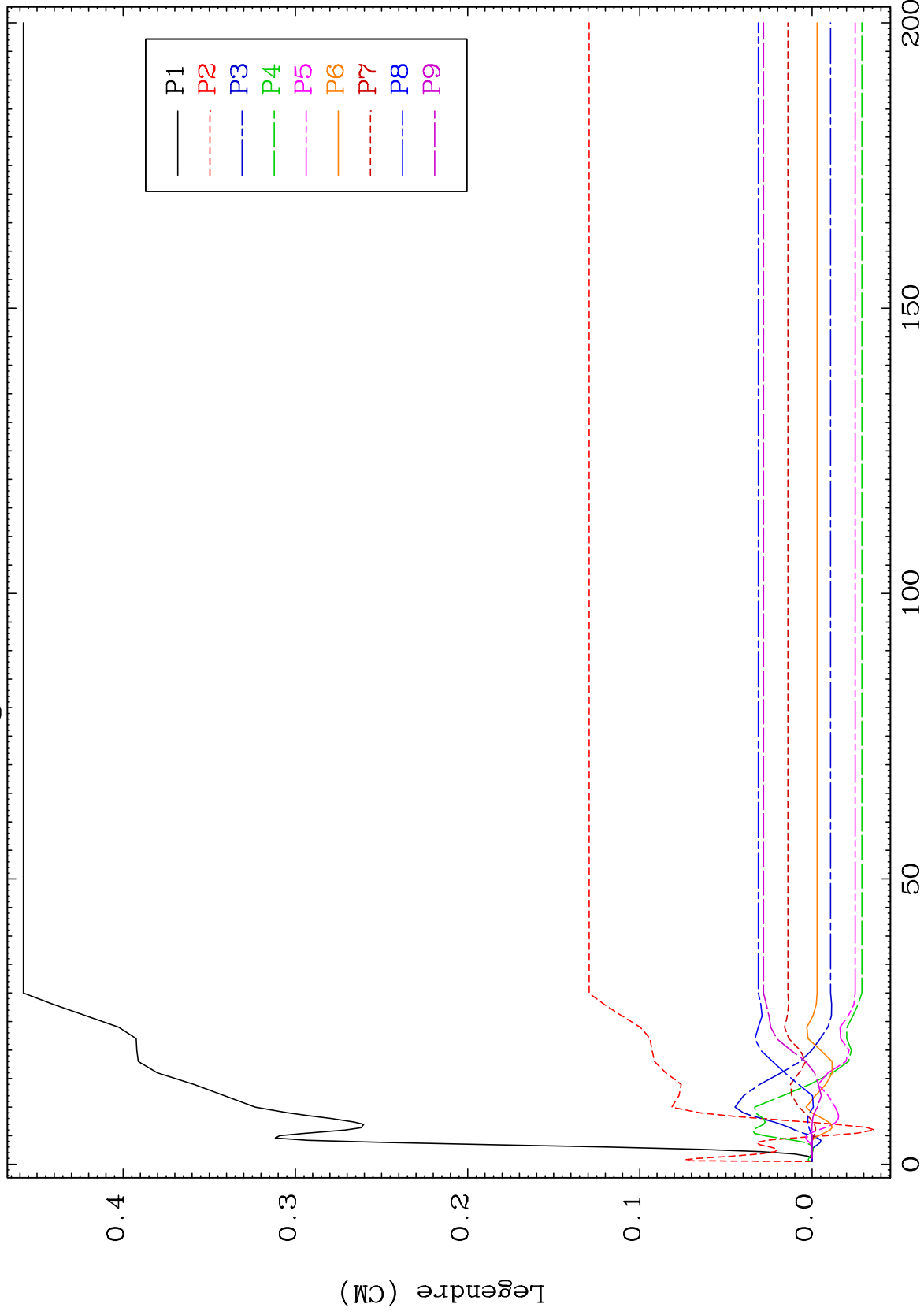
69-Tm-163



MAT 6907

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

69-Tm-163



98

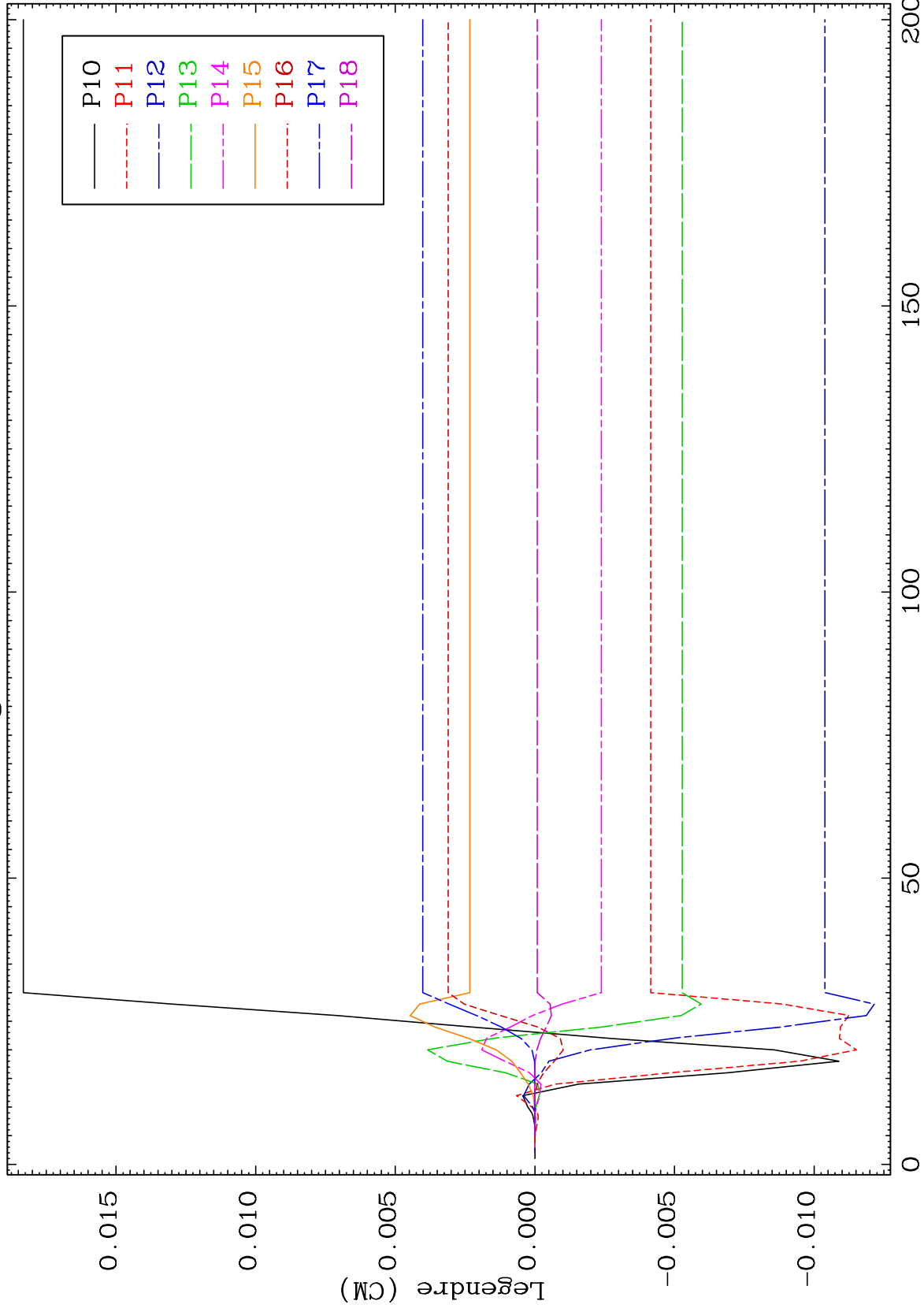
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



99

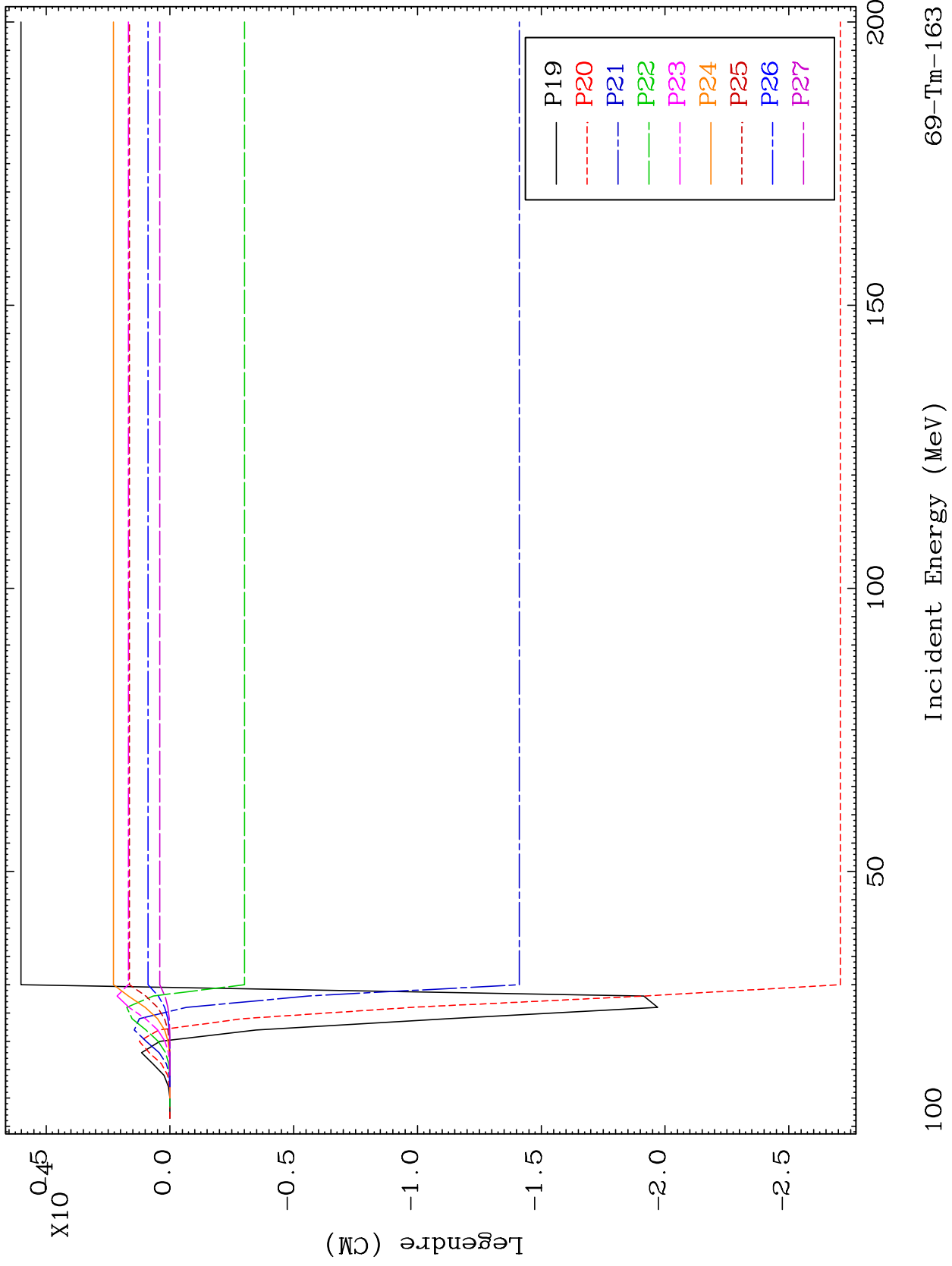
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

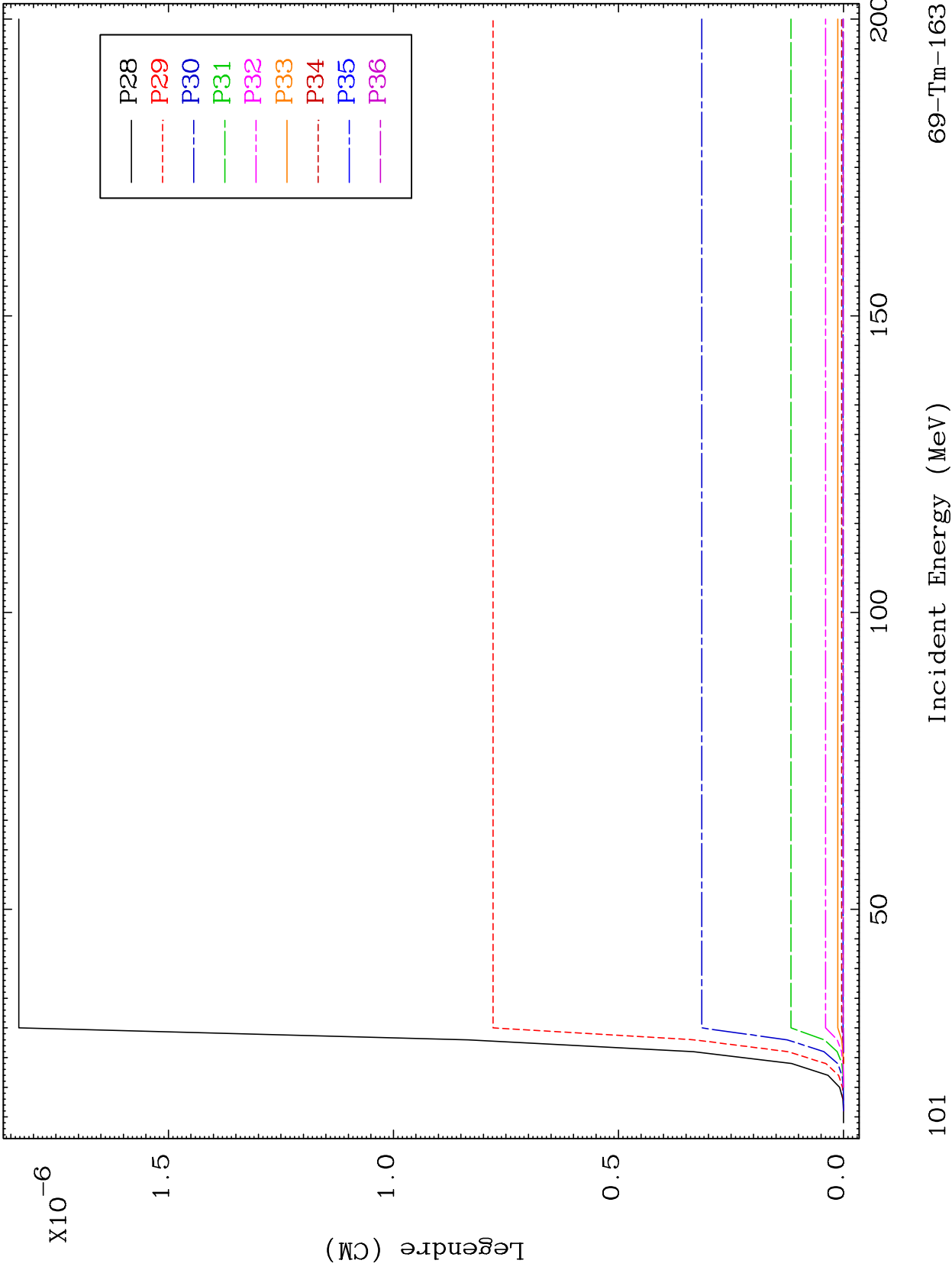
69-Tm-163



MAT 6907

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

69-Tm-163

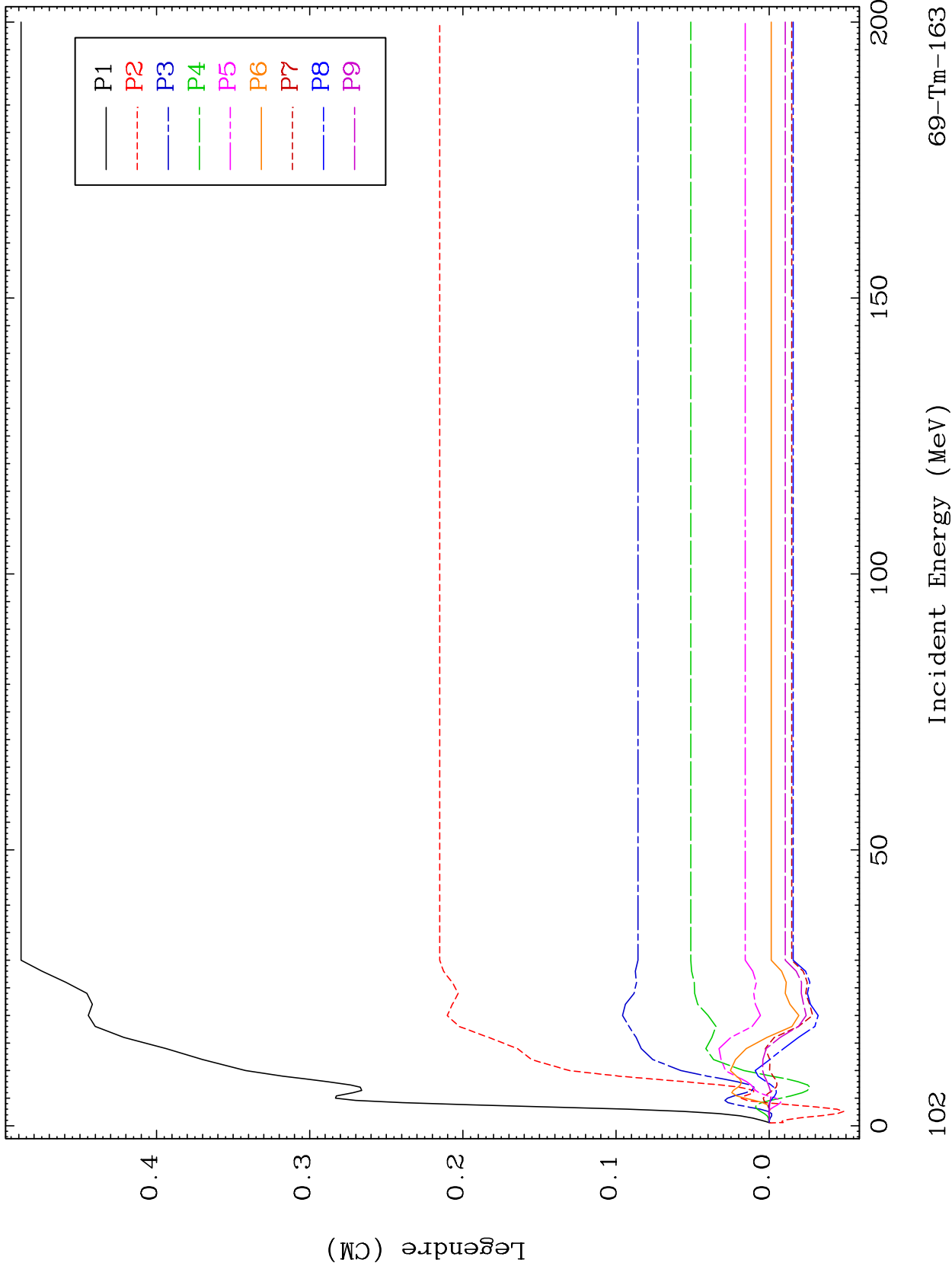


101

MAT 6907

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

69-Tm-163



102

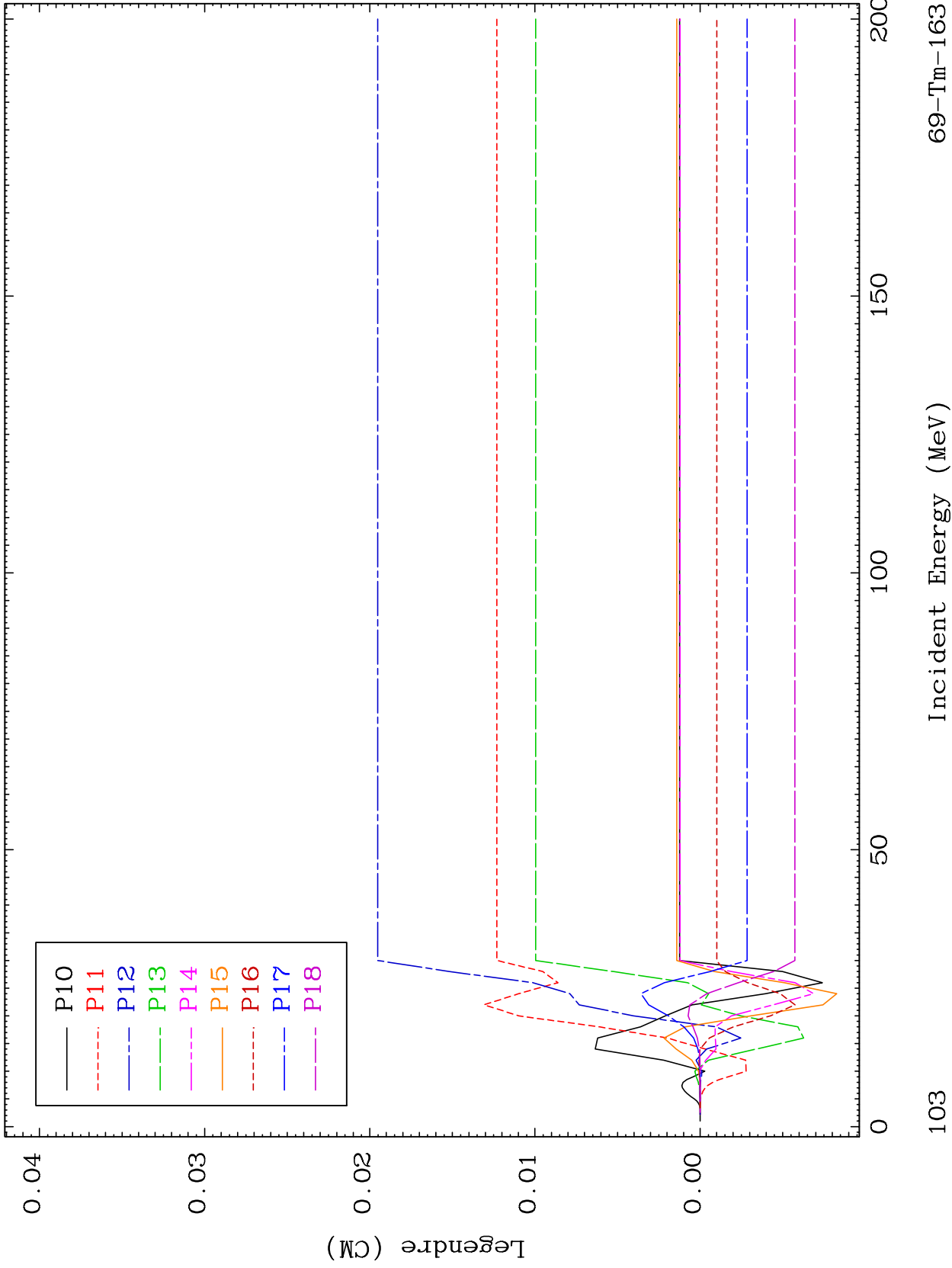
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



103

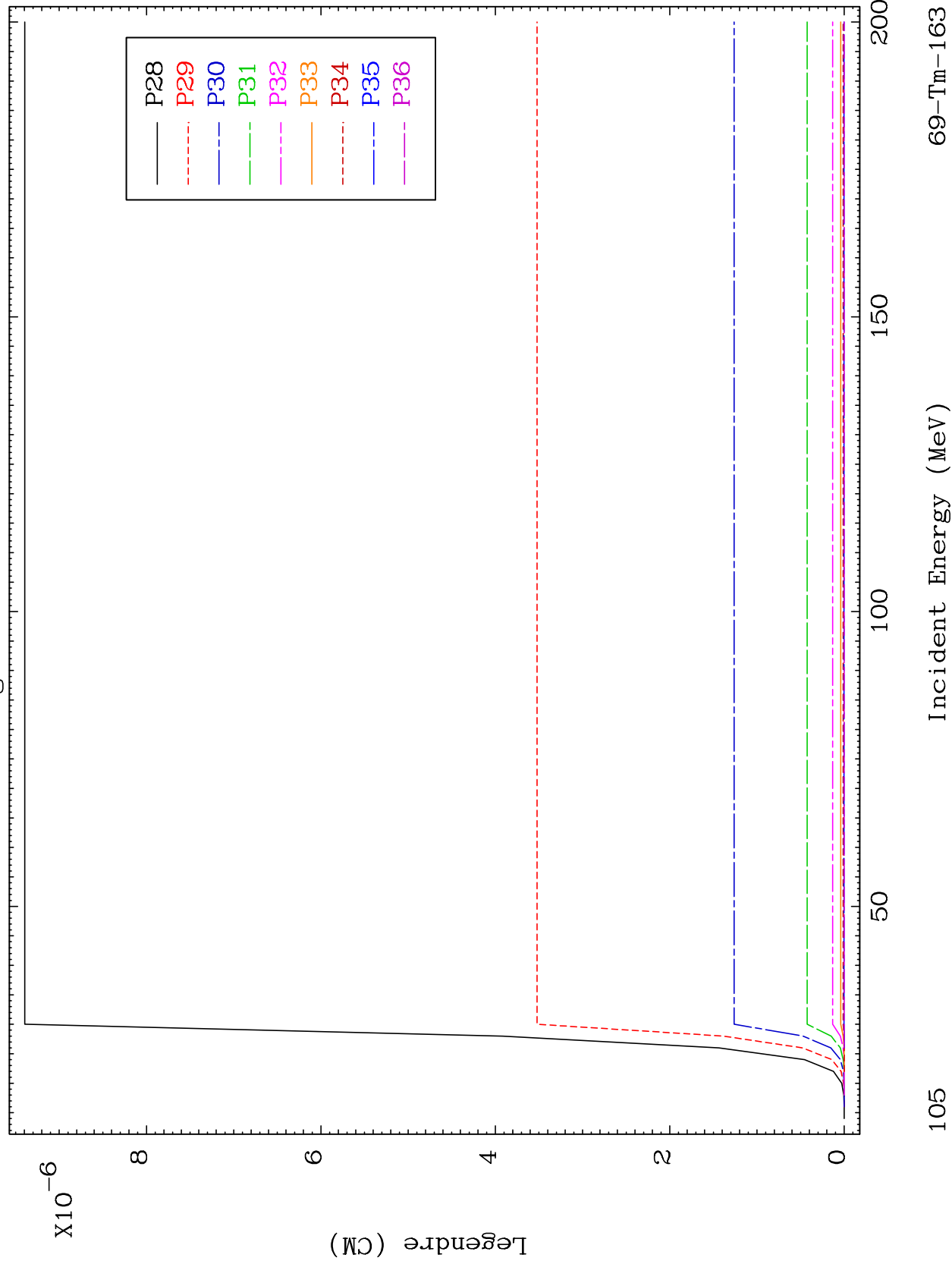
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



105

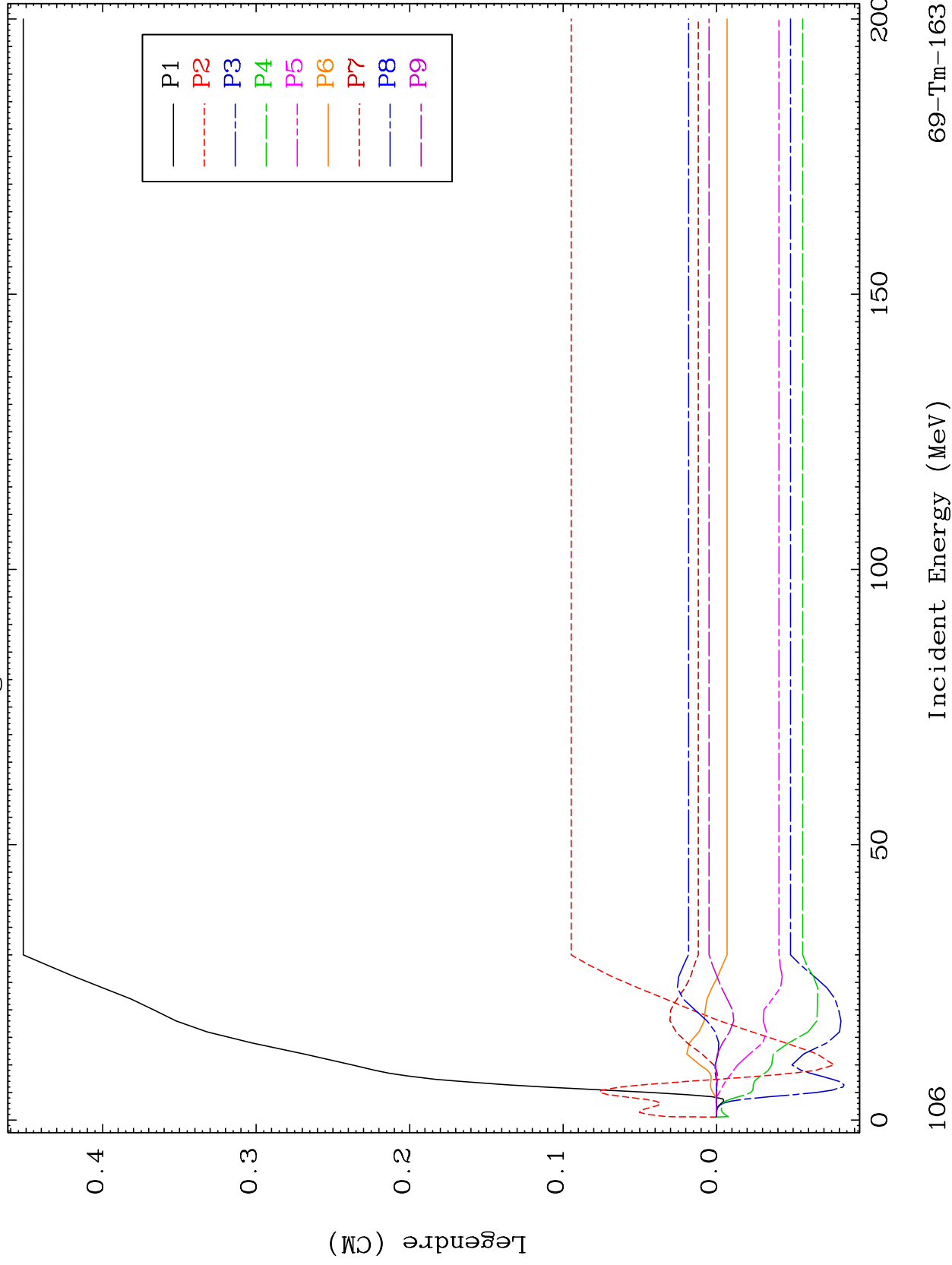
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

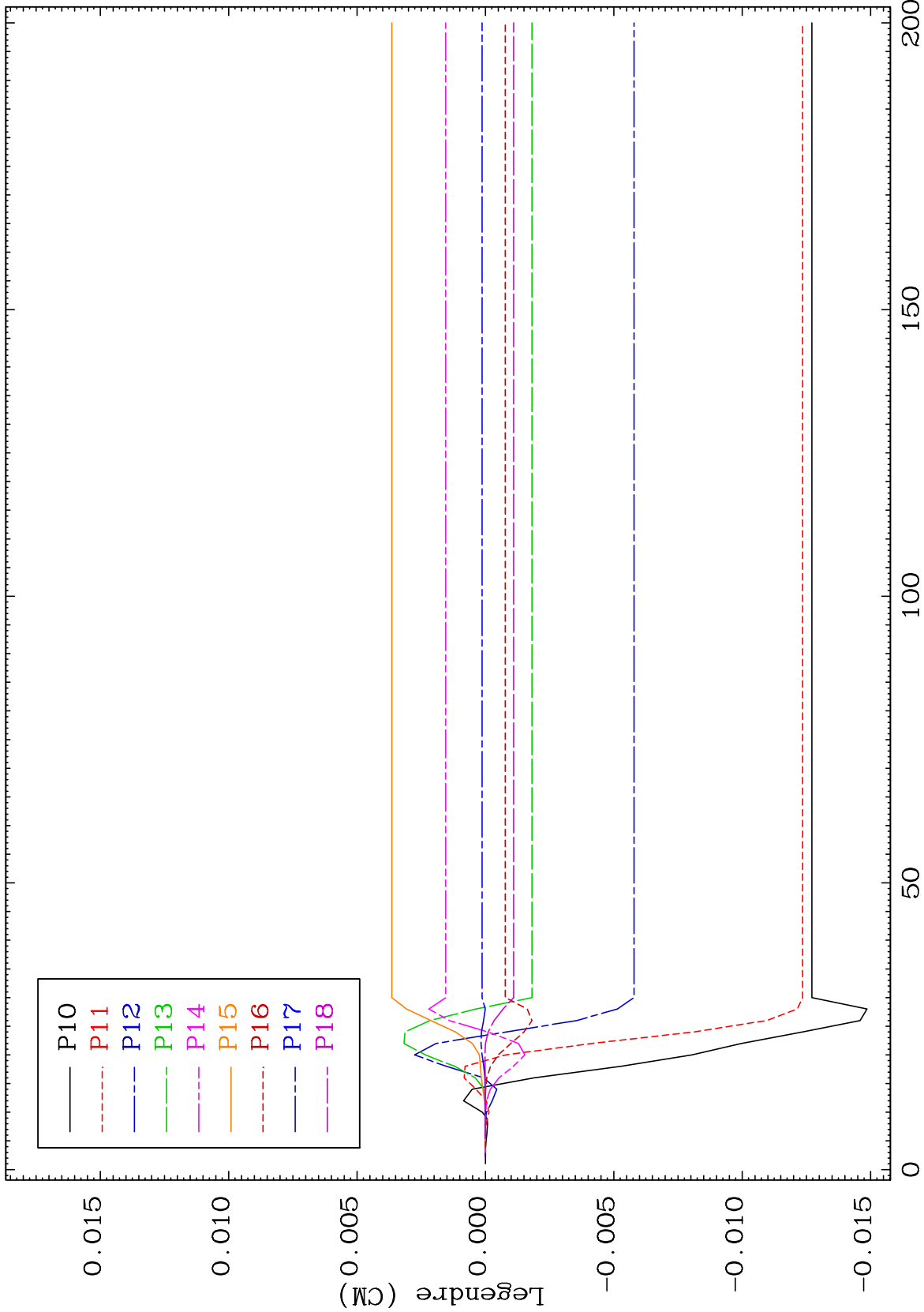
69-Tm-163



69-Tm-163

Incident Energy (MeV)

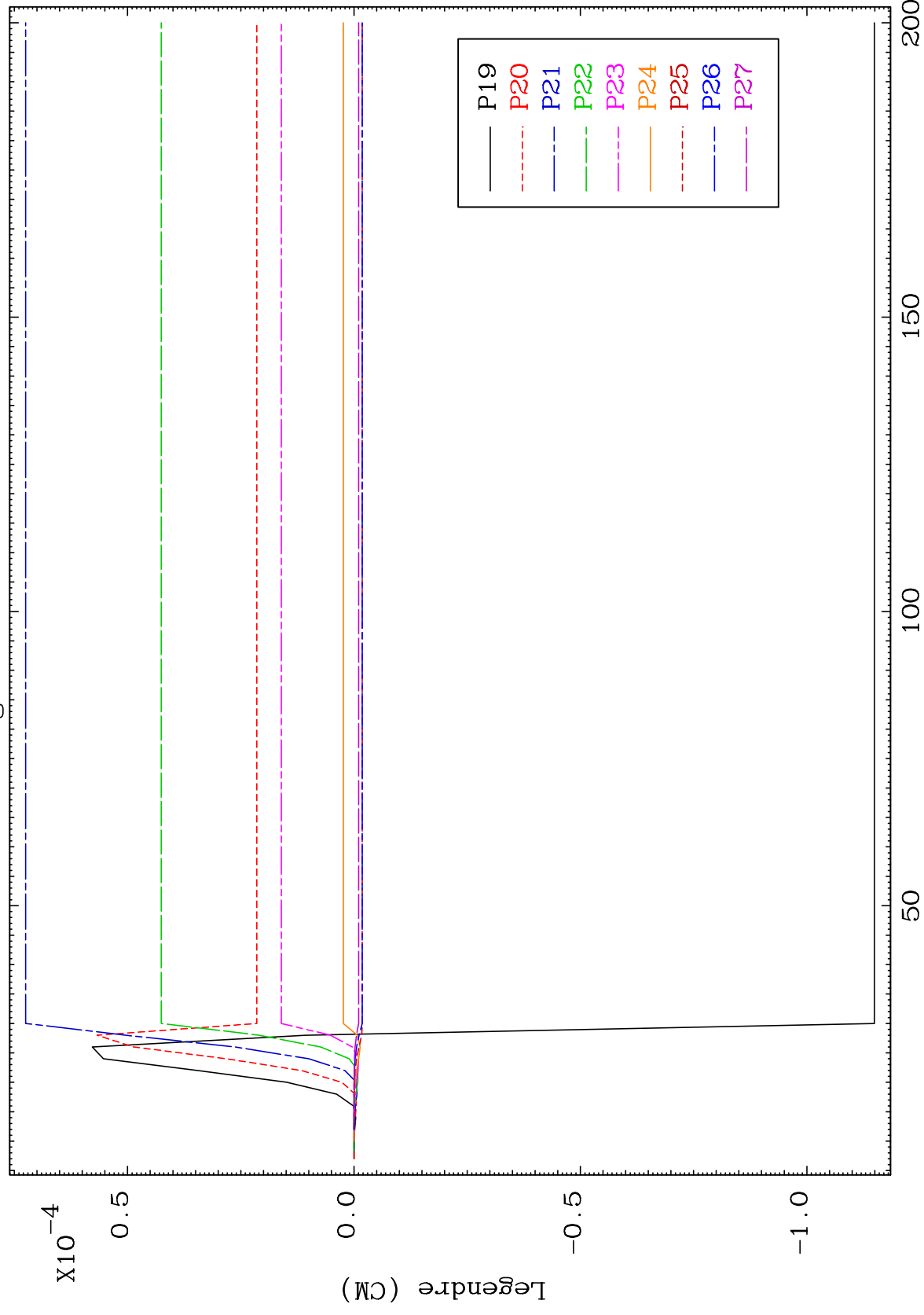
106



MAT 6907

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

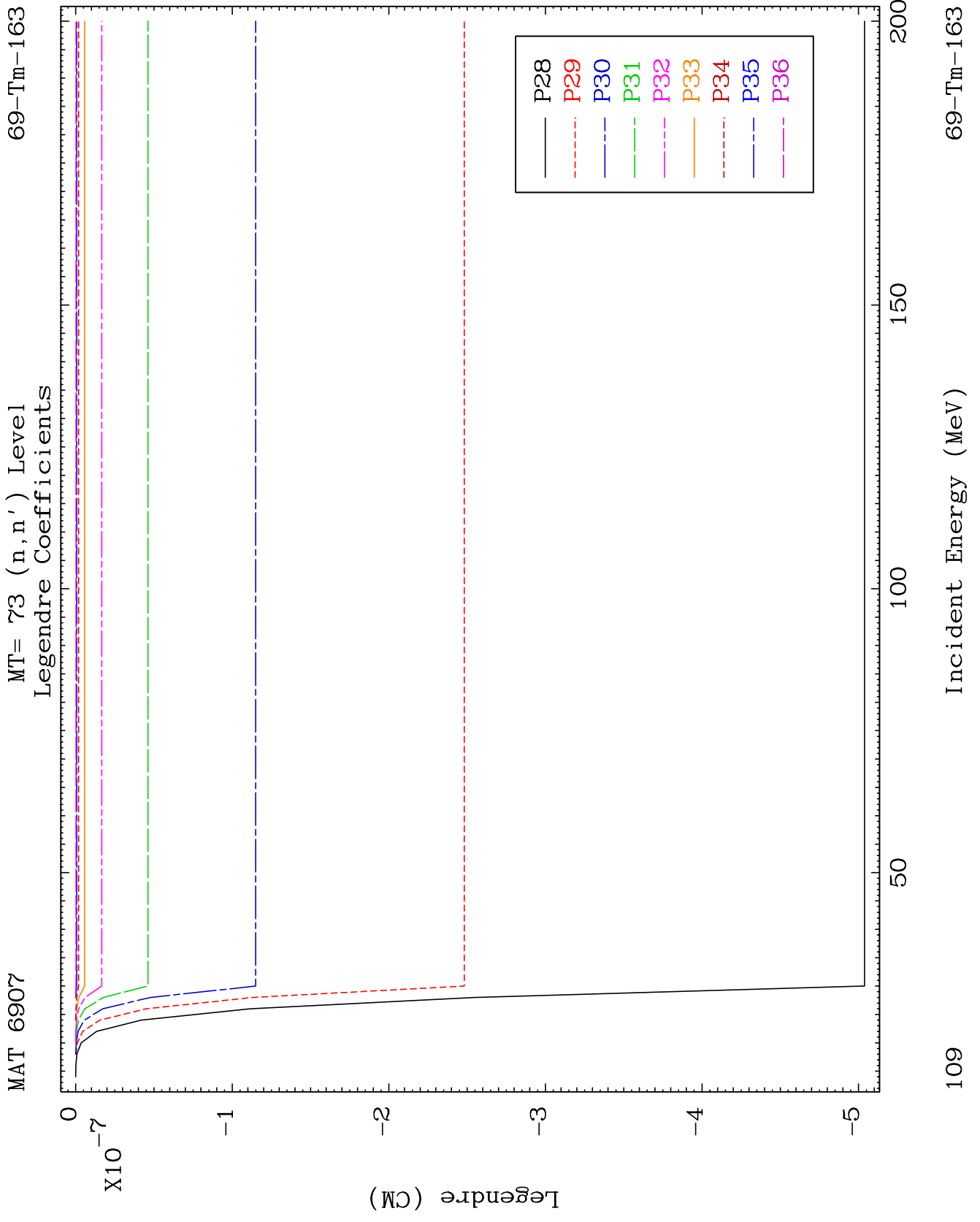
69-Tm-163



108

Incident Energy (MeV)

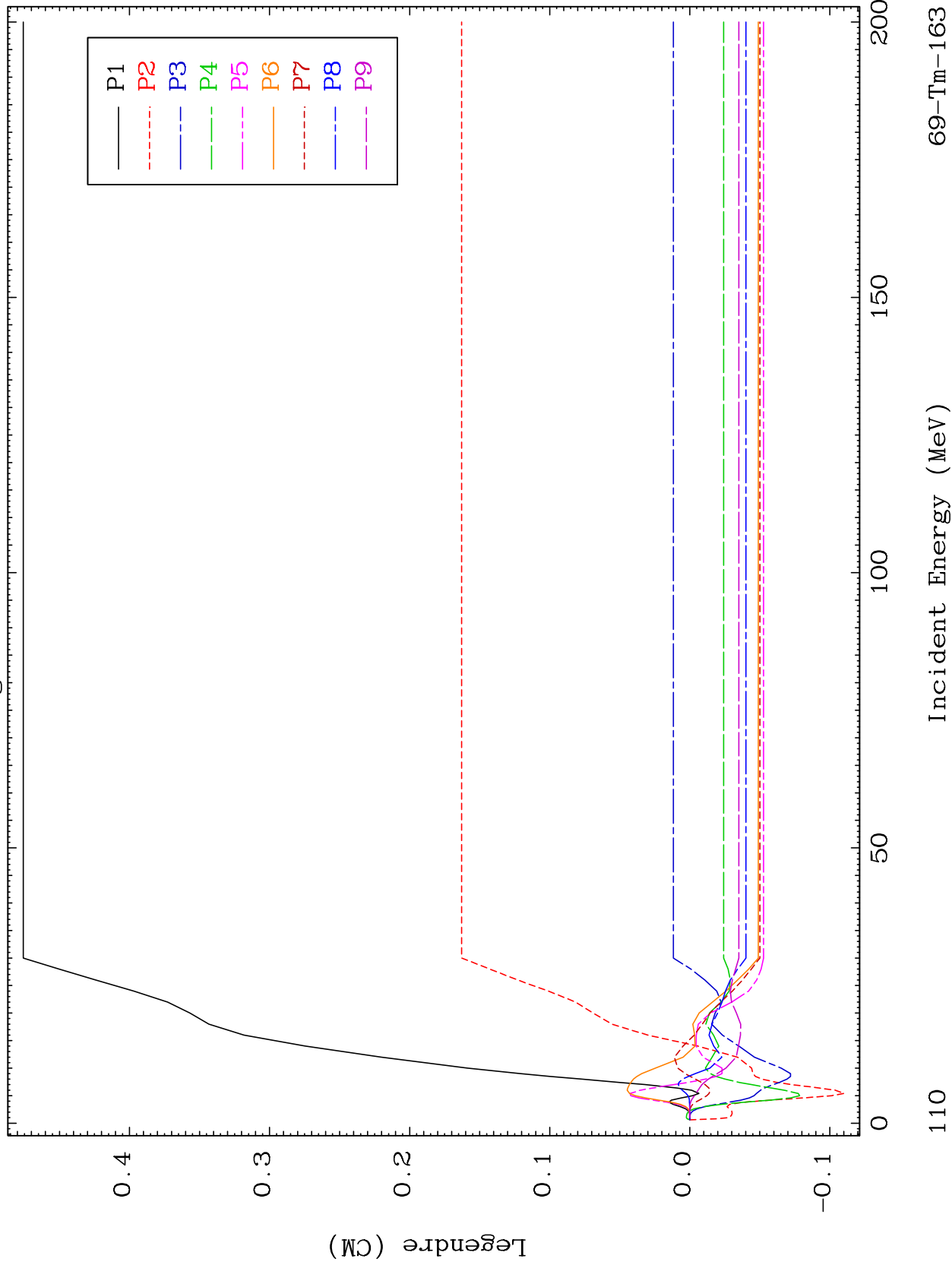
69-Tm-163



MAT 6907

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

69-Tm-163



69-Tm-163

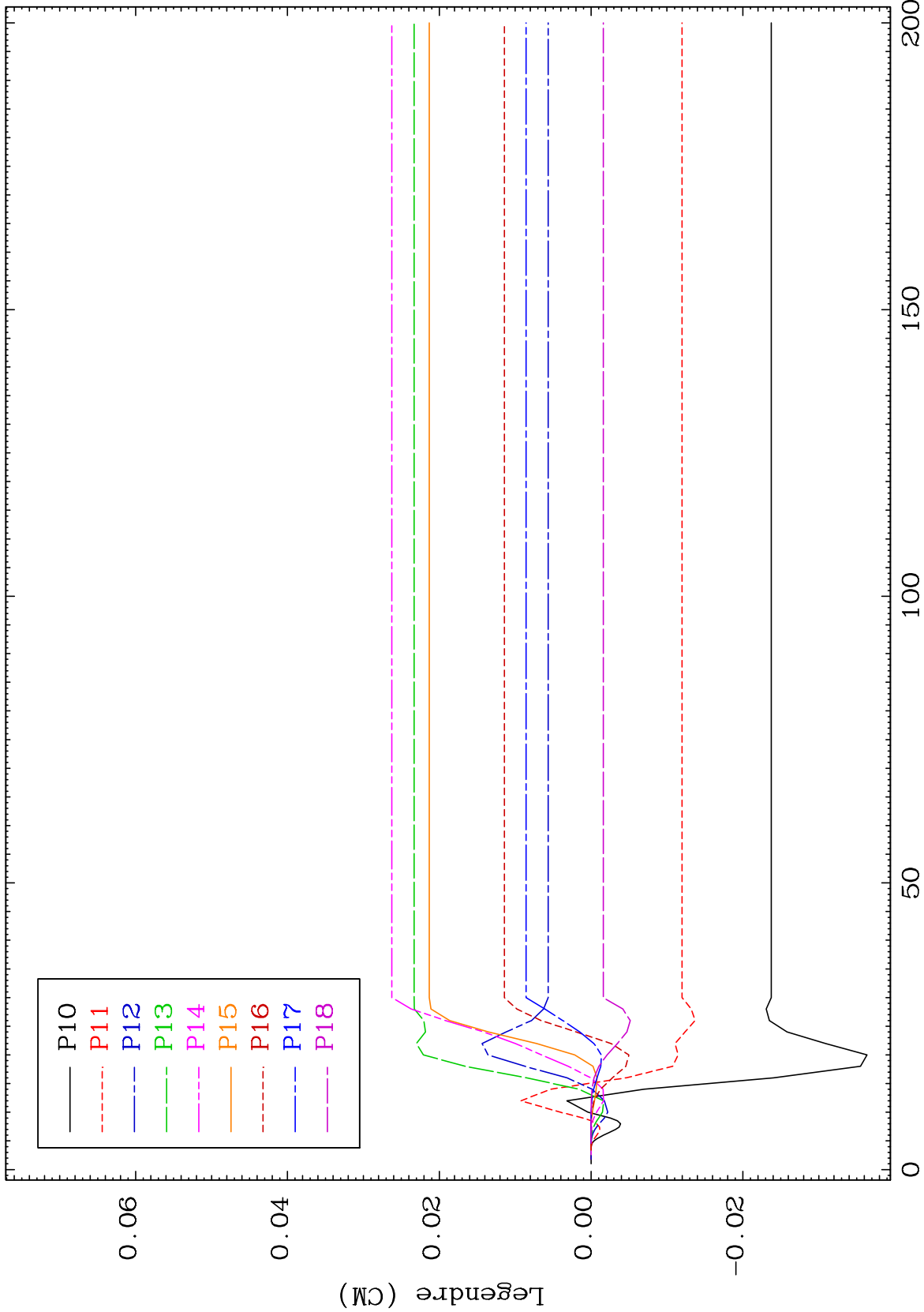
Incident Energy (MeV)

110

MAT 6907

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

69-Tm-163



111

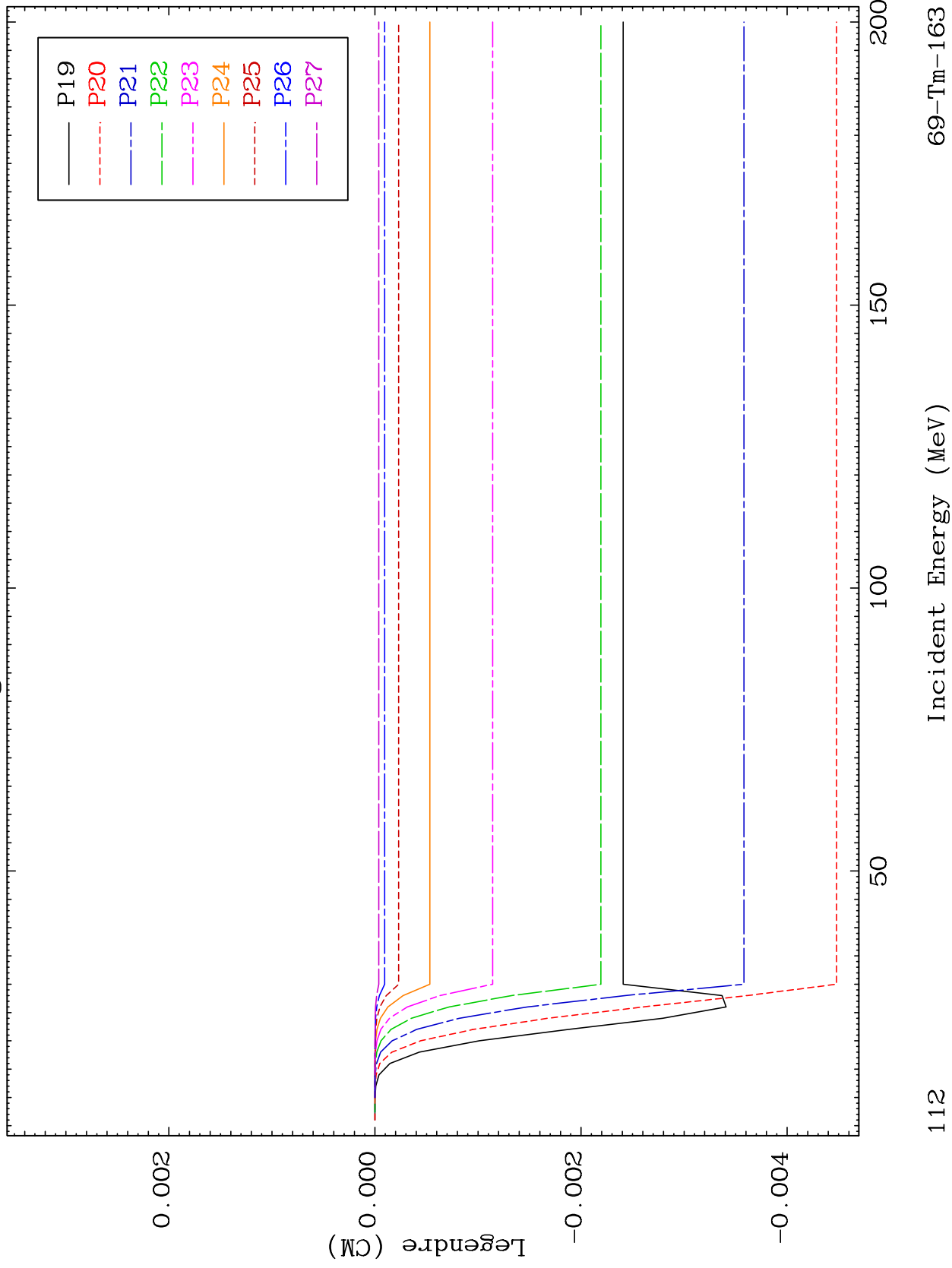
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



112

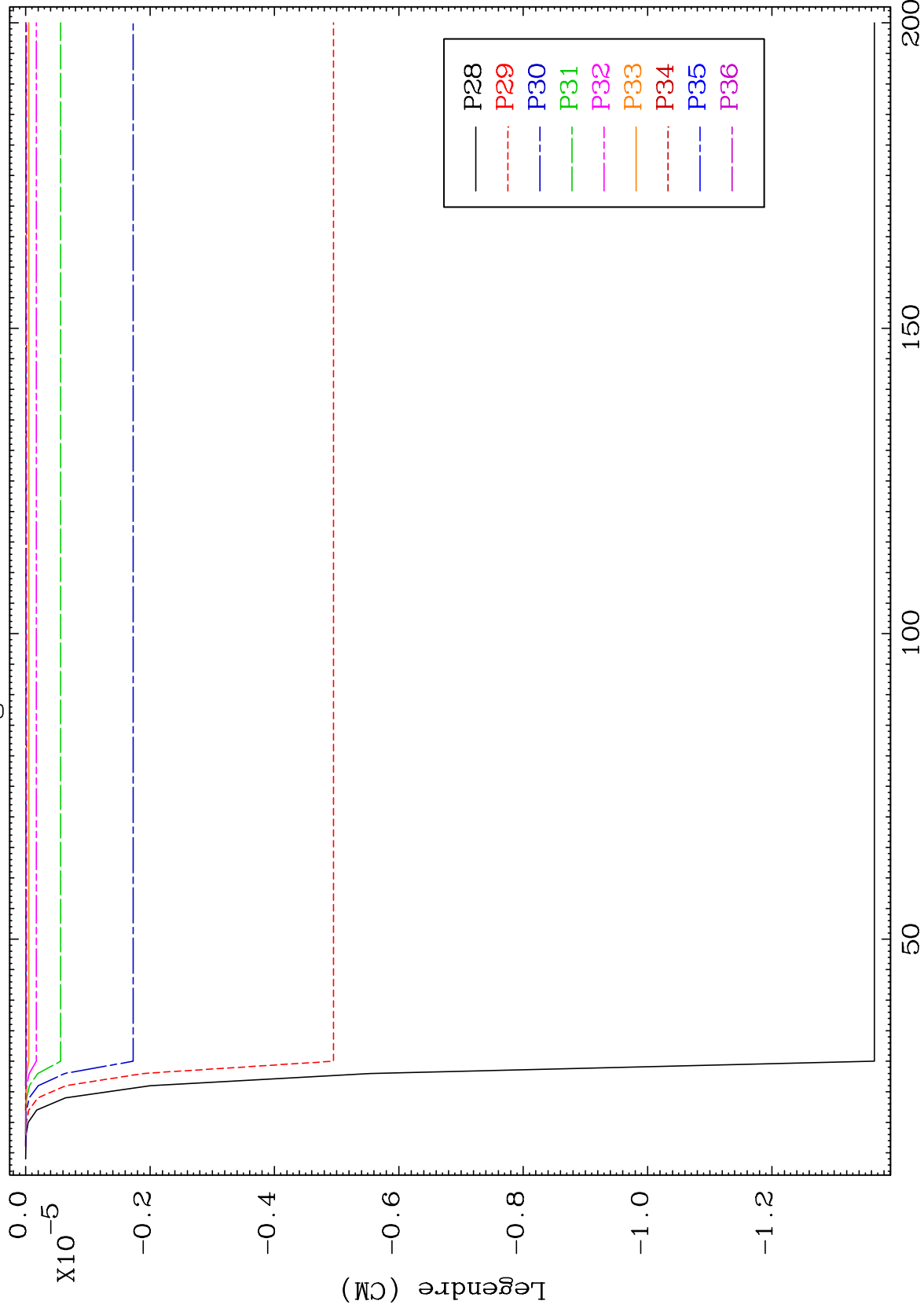
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



113

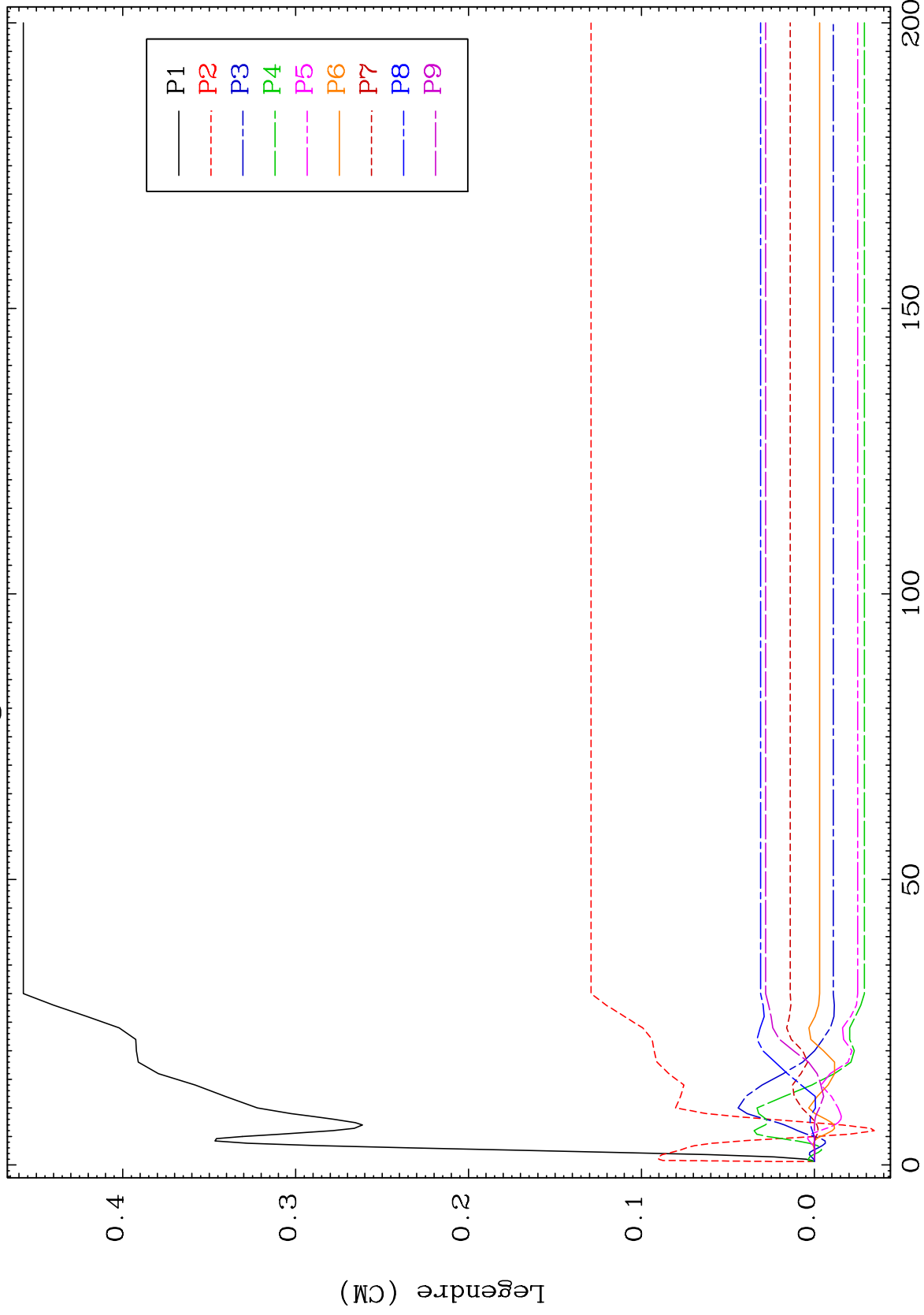
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



69-Tm-163

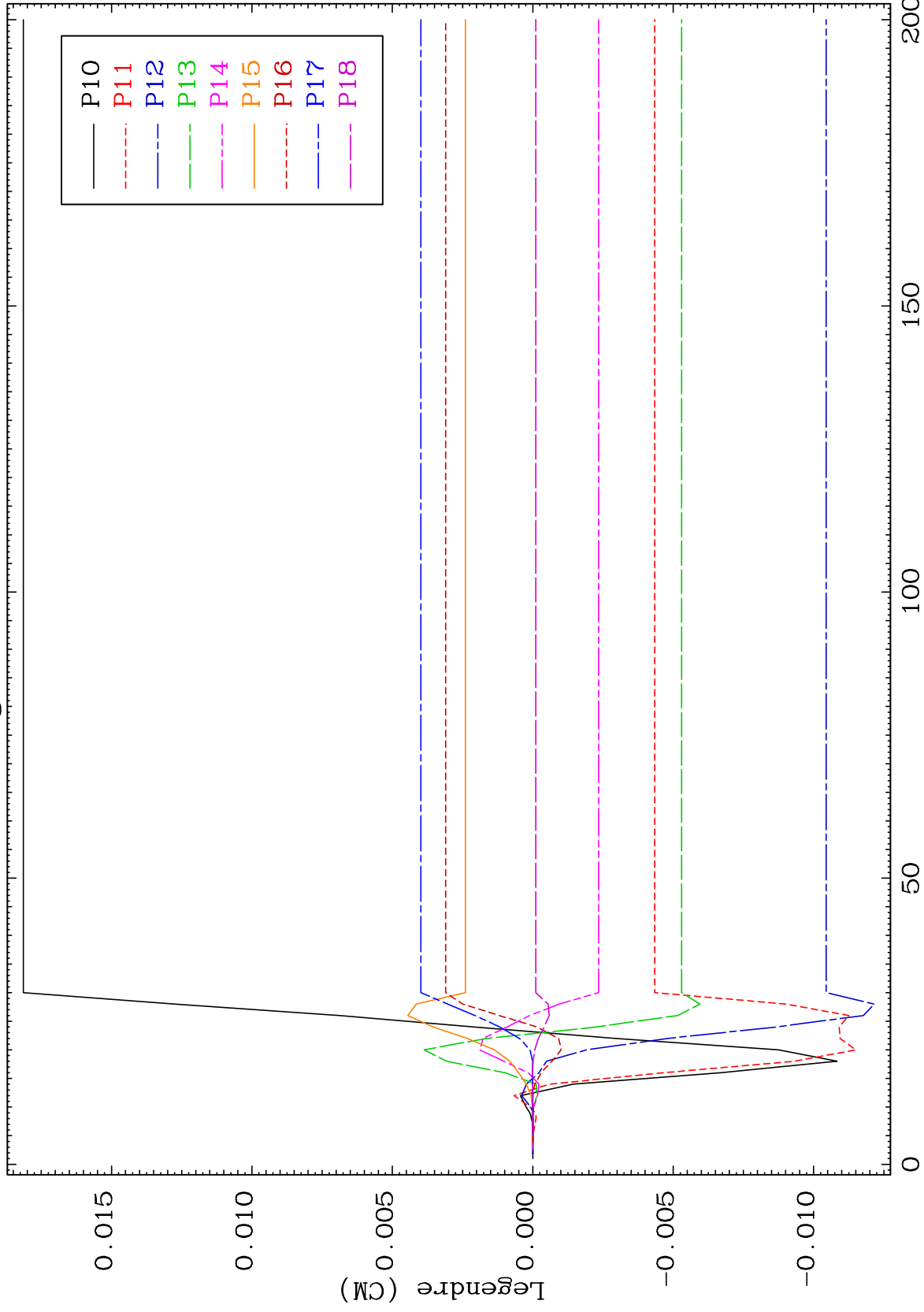
Incident Energy (MeV)

114

MAT 6907

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

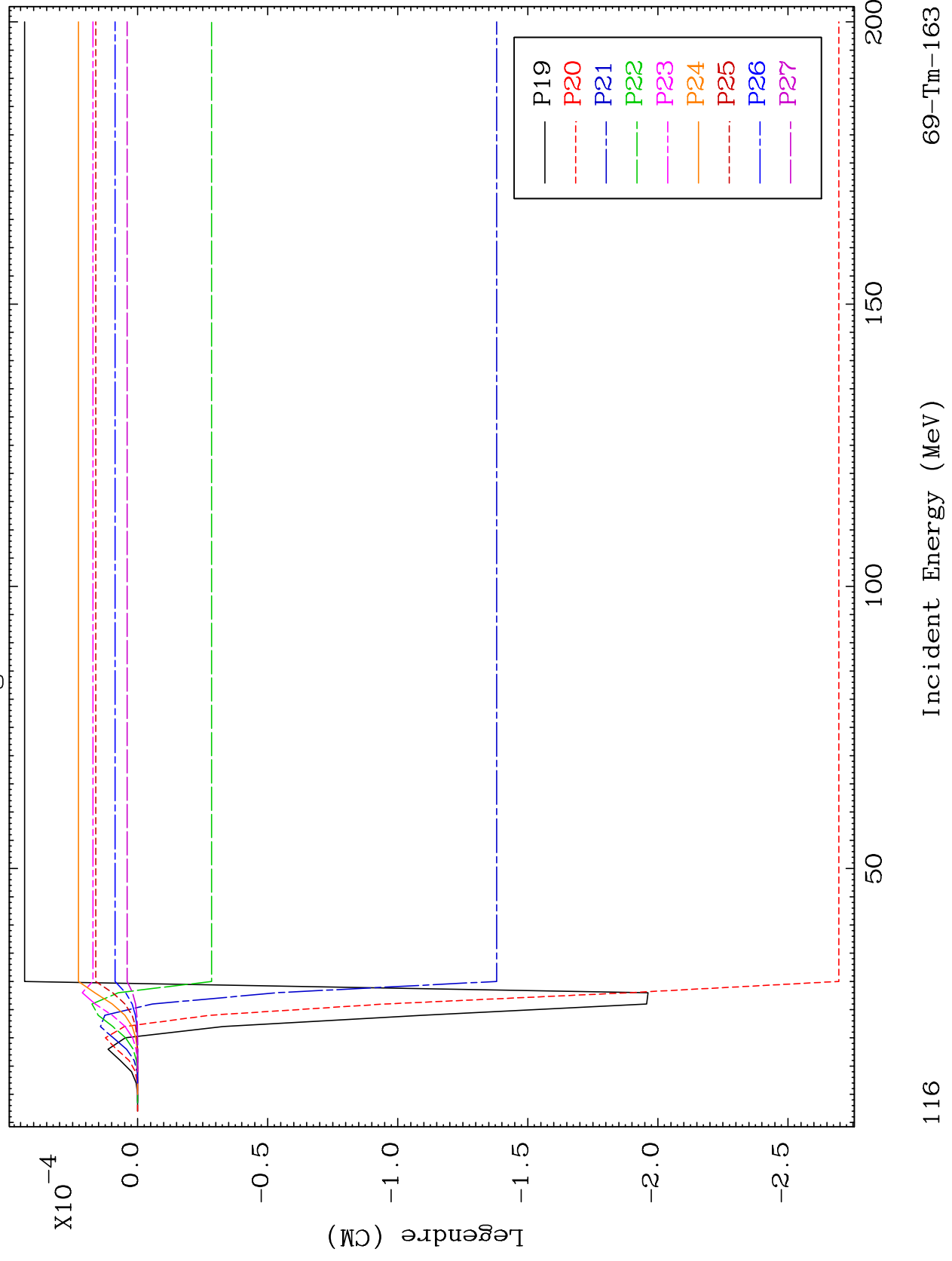
69-Tm-163



115

Incident Energy (MeV)

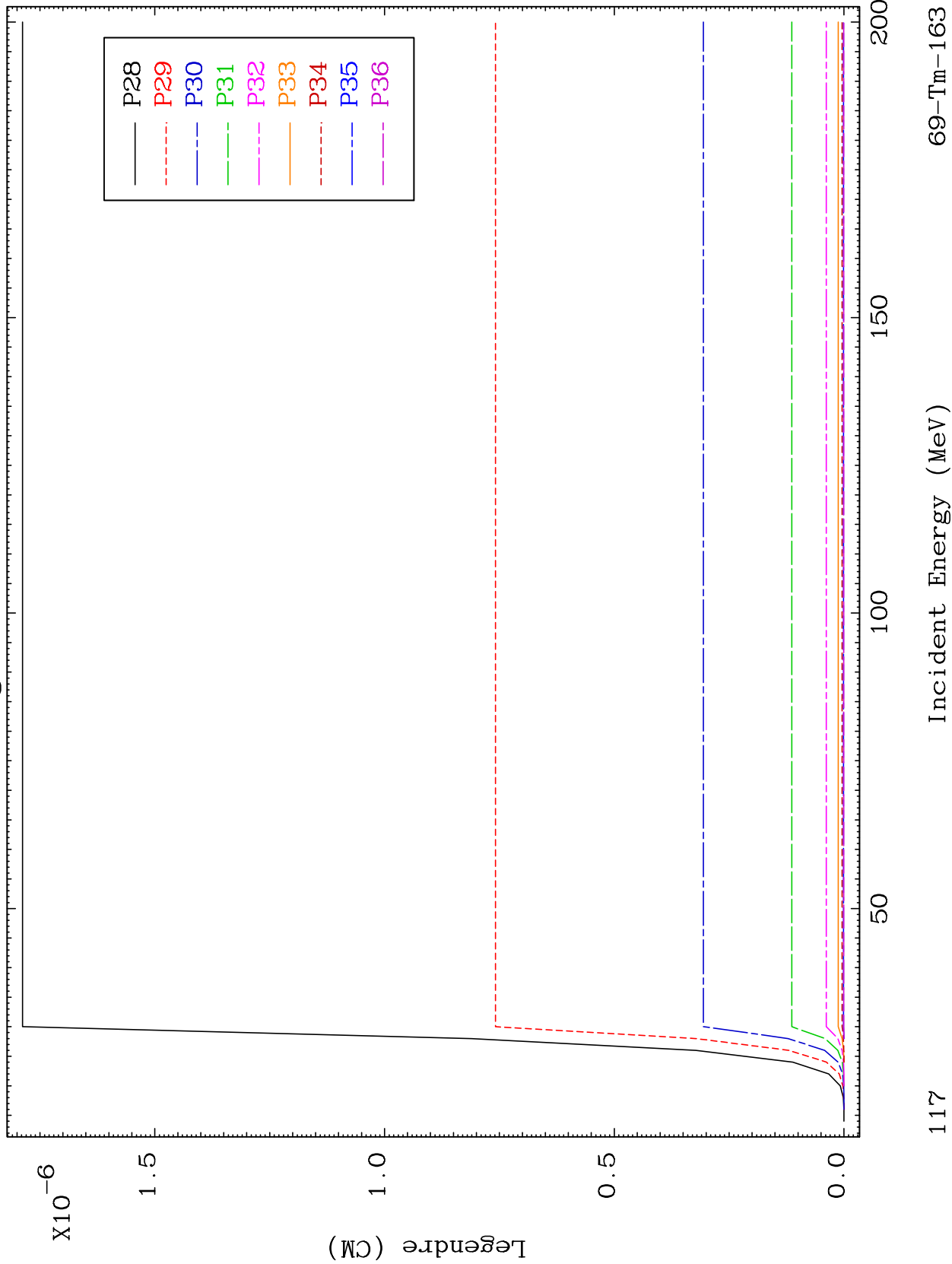
69-Tm-163



MAT 6907

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

69-Tm-163



117

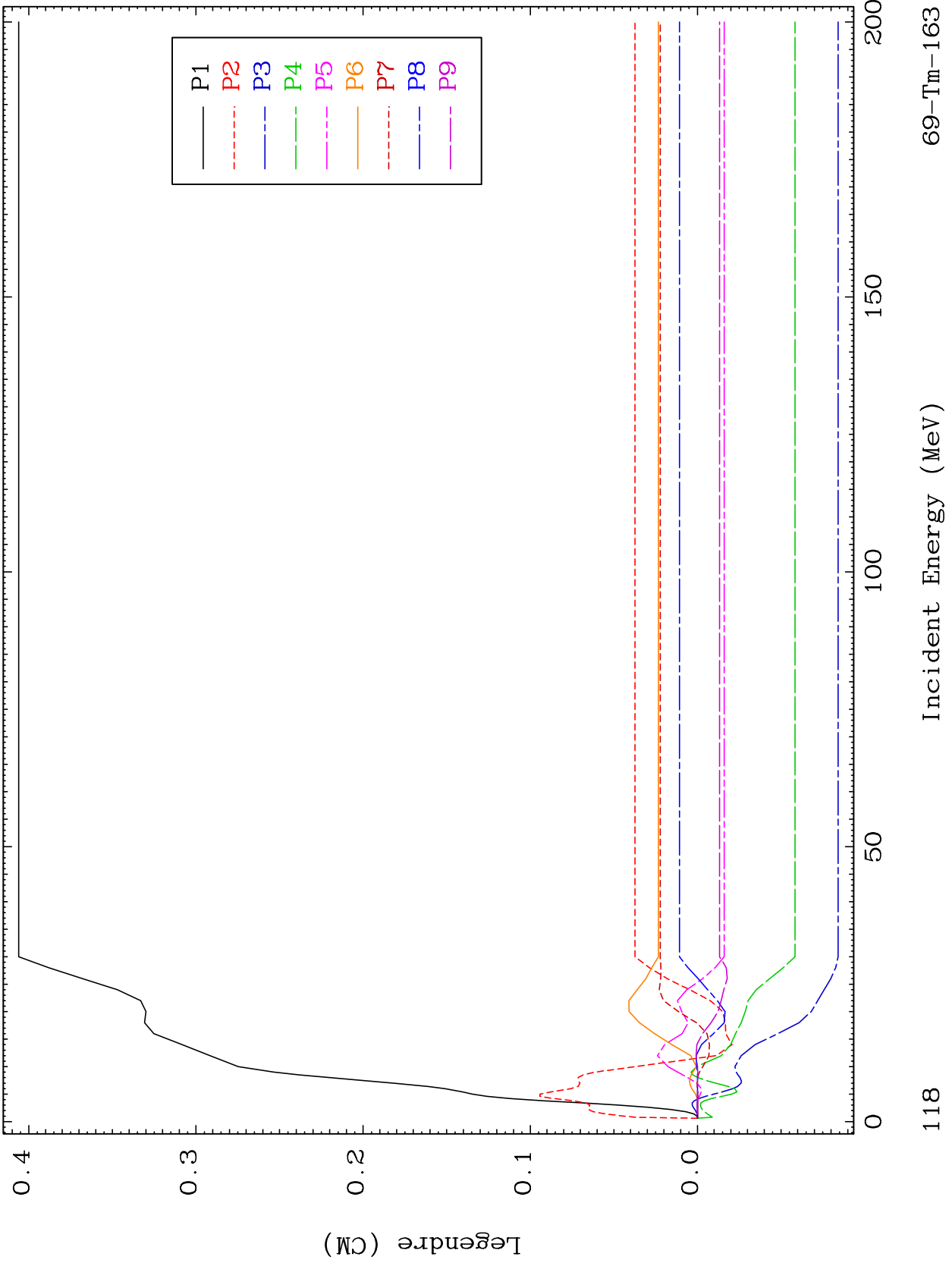
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



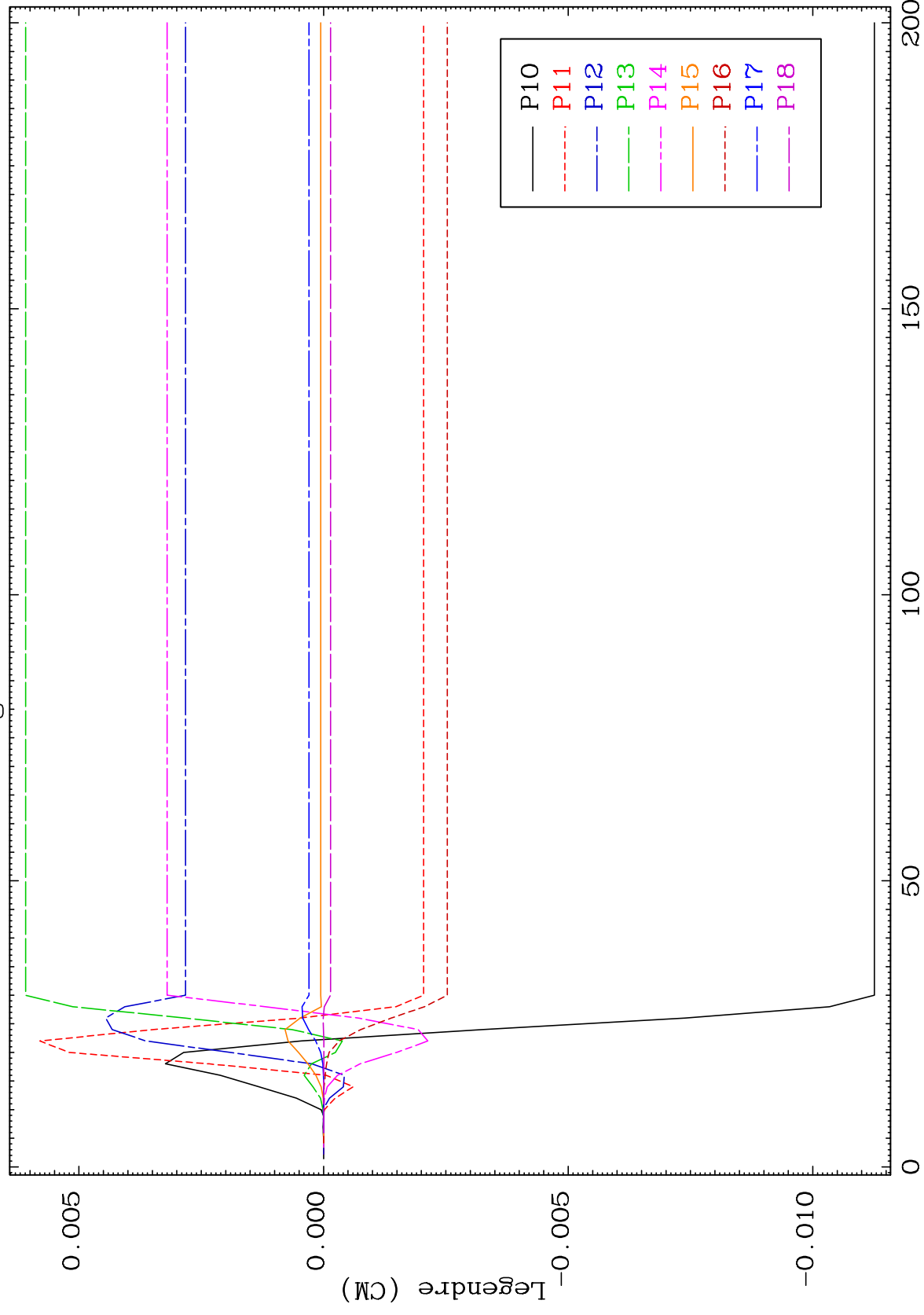
118

69-Tm-163

MAT 6907

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

69-Tm-163



119

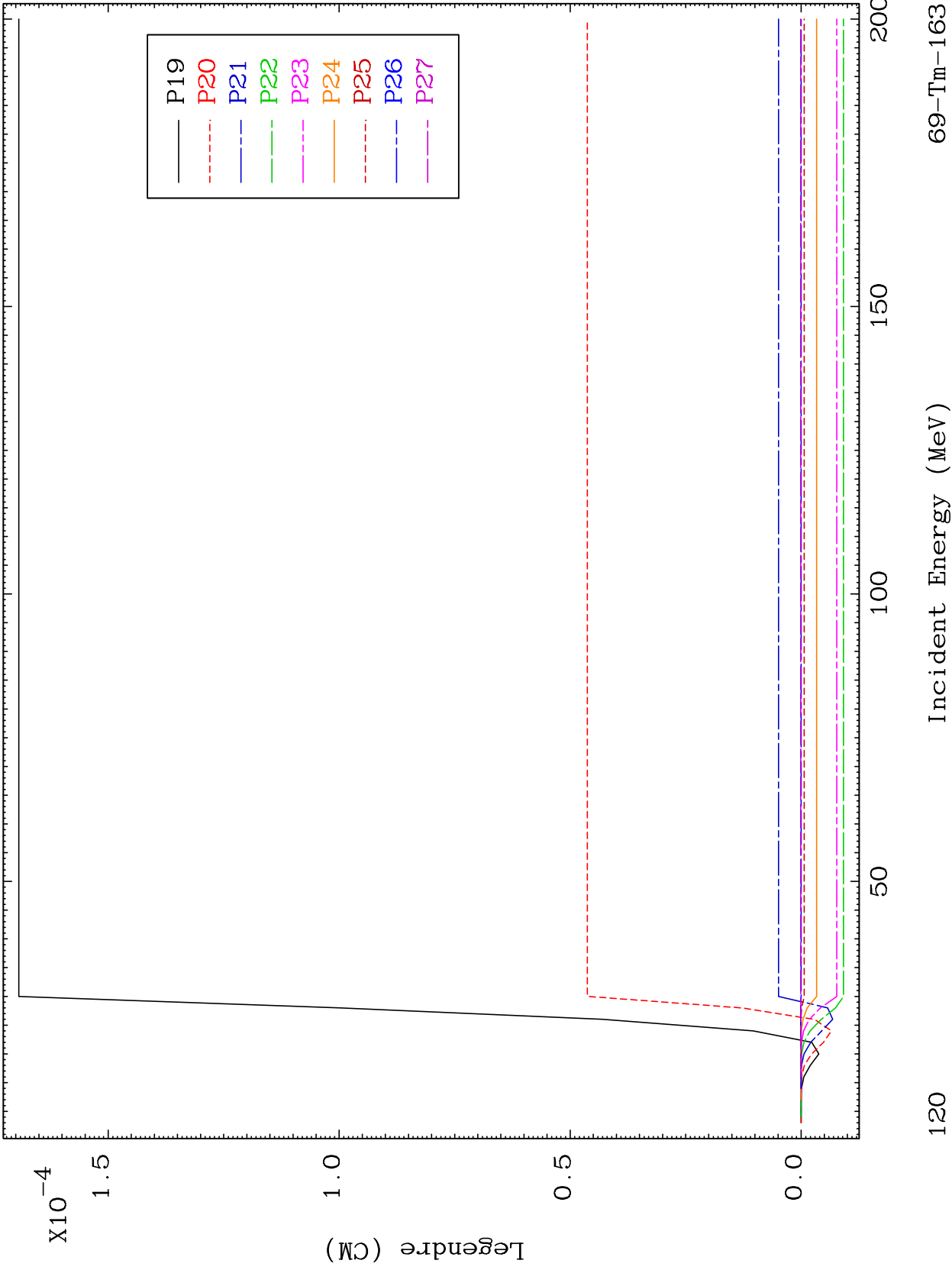
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



120

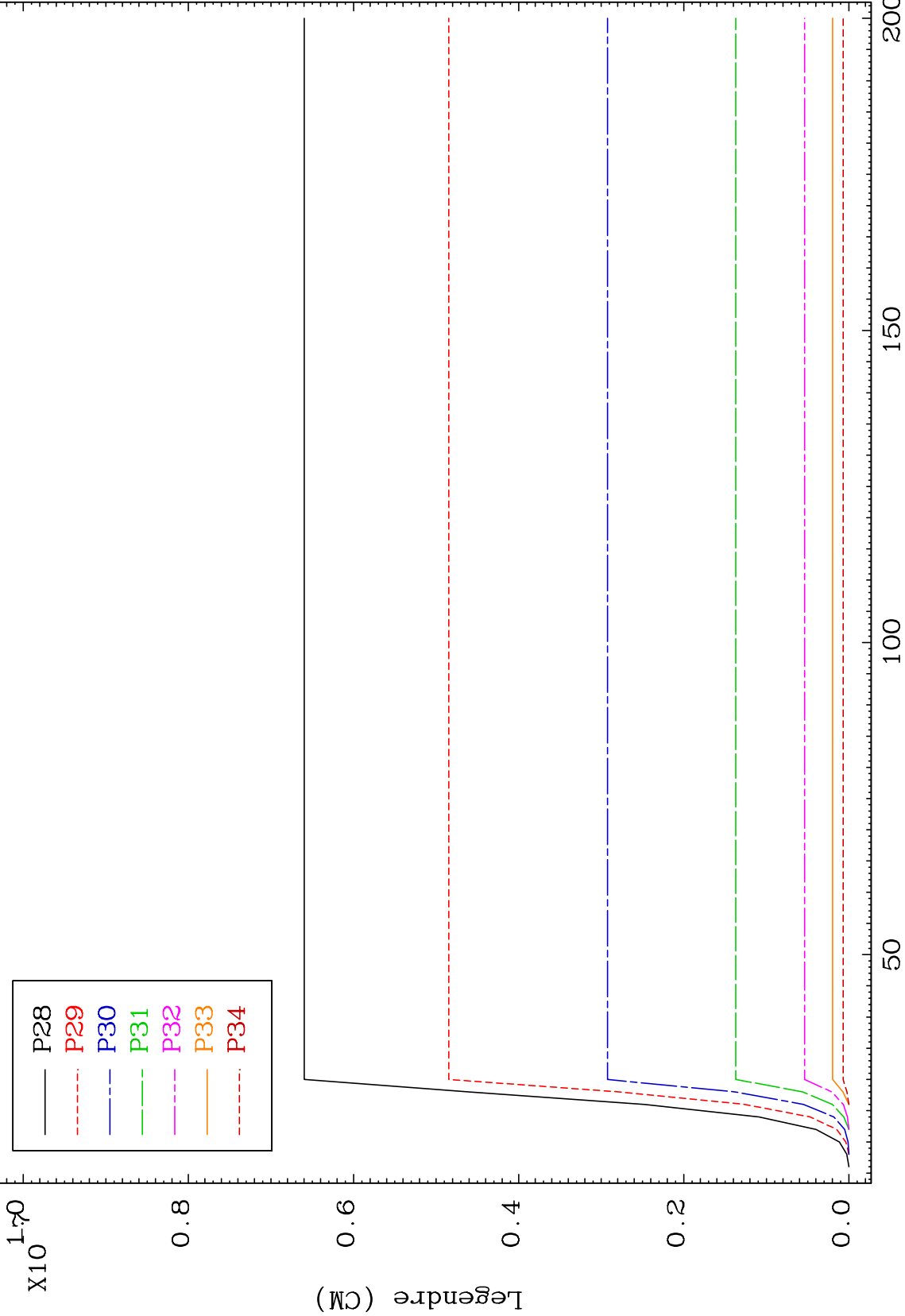
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



121

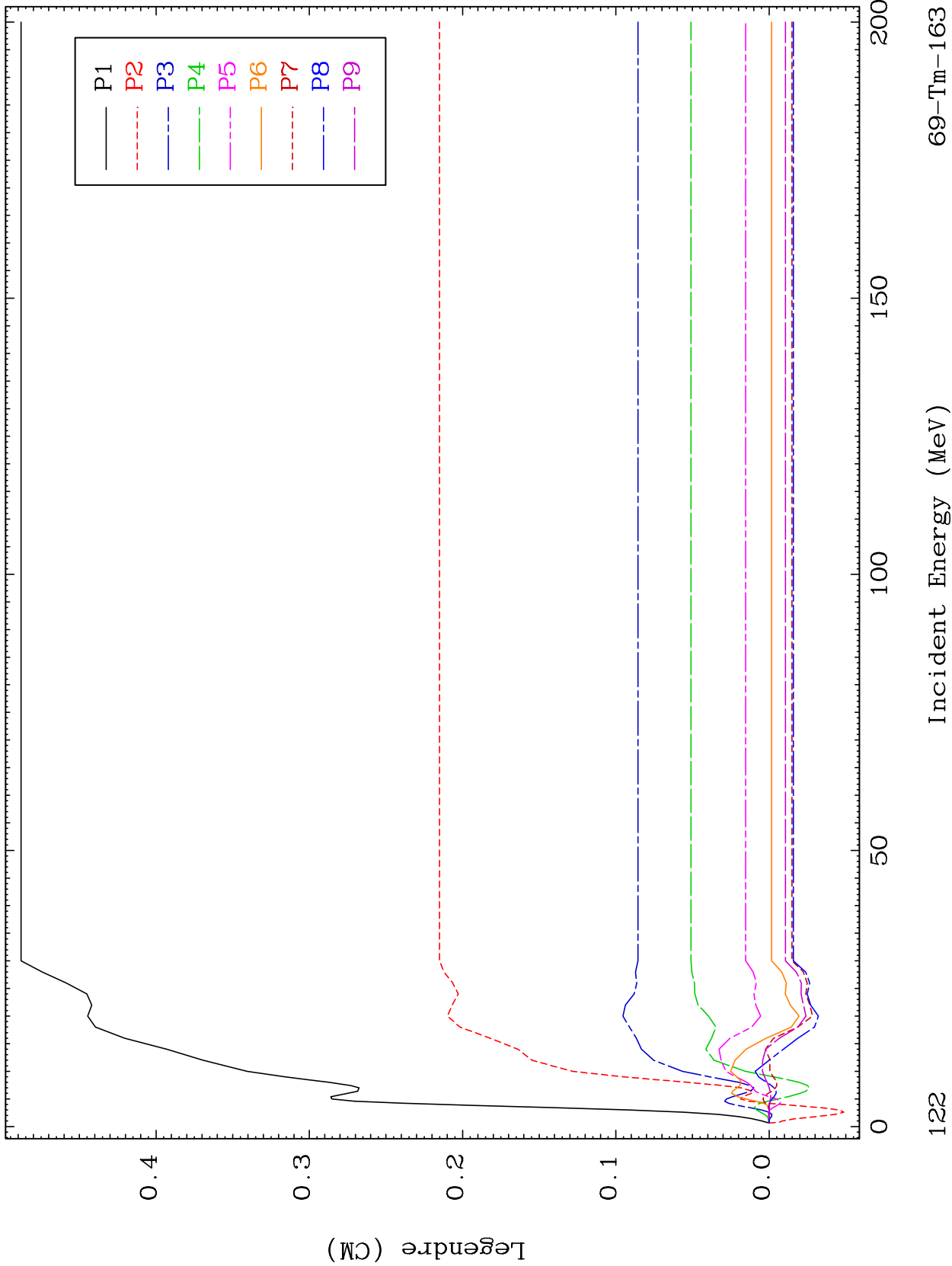
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



69-Tm-163

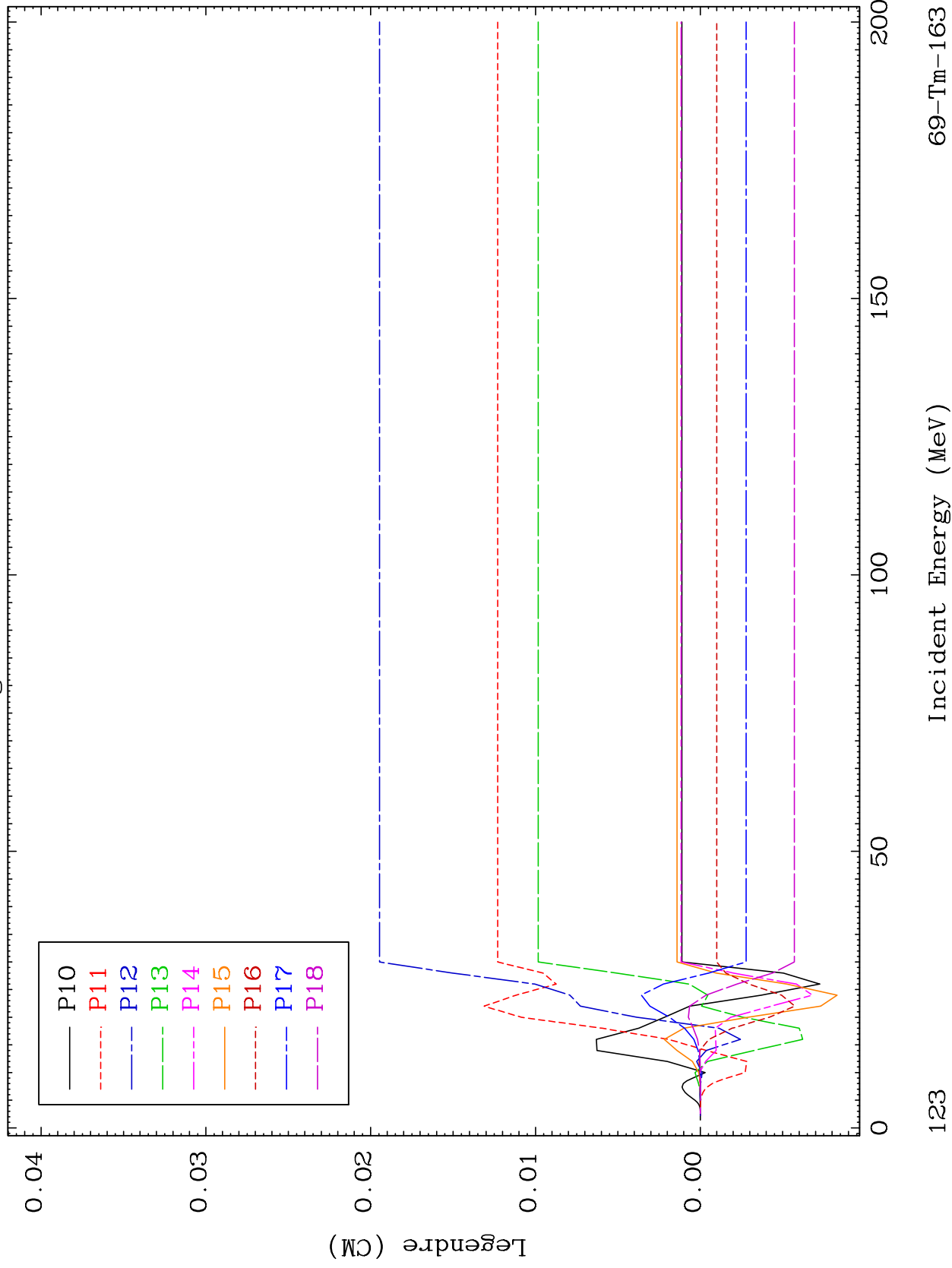
Incident Energy (MeV)

122

MAT 6907

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

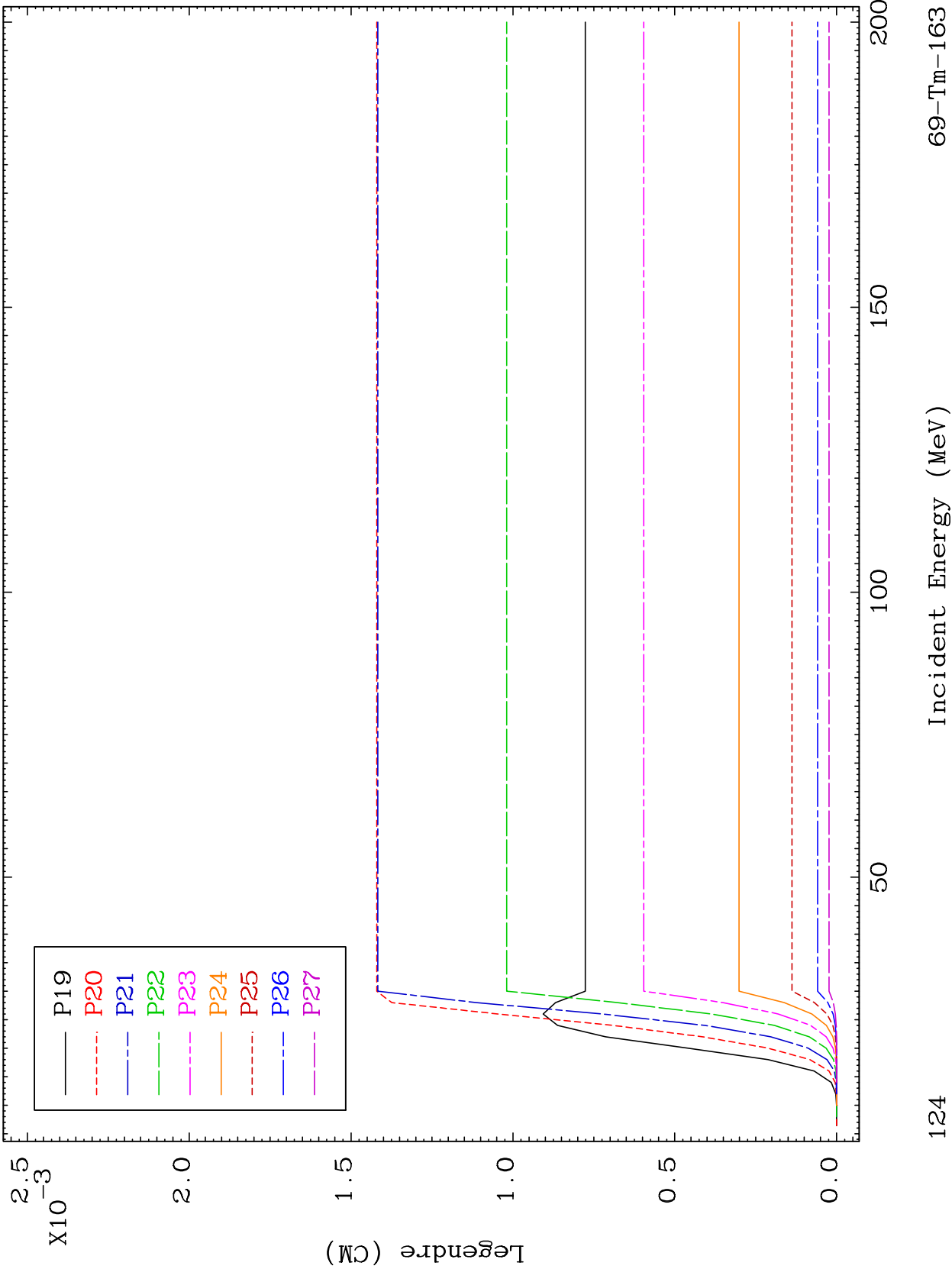
69-Tm-163



123

Incident Energy (MeV)

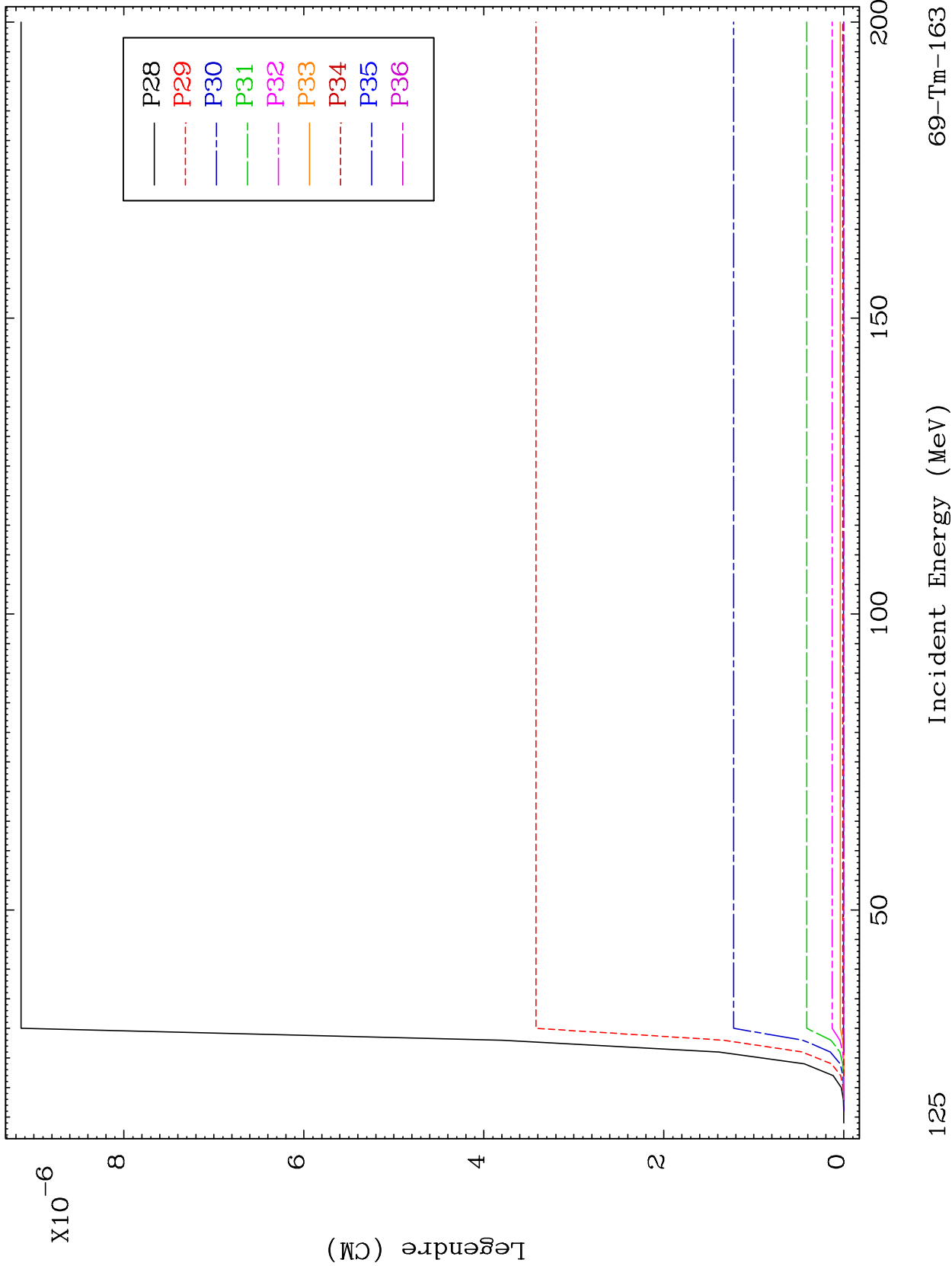
69-Tm-163



MAT 6907

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

69-Tm-163



125

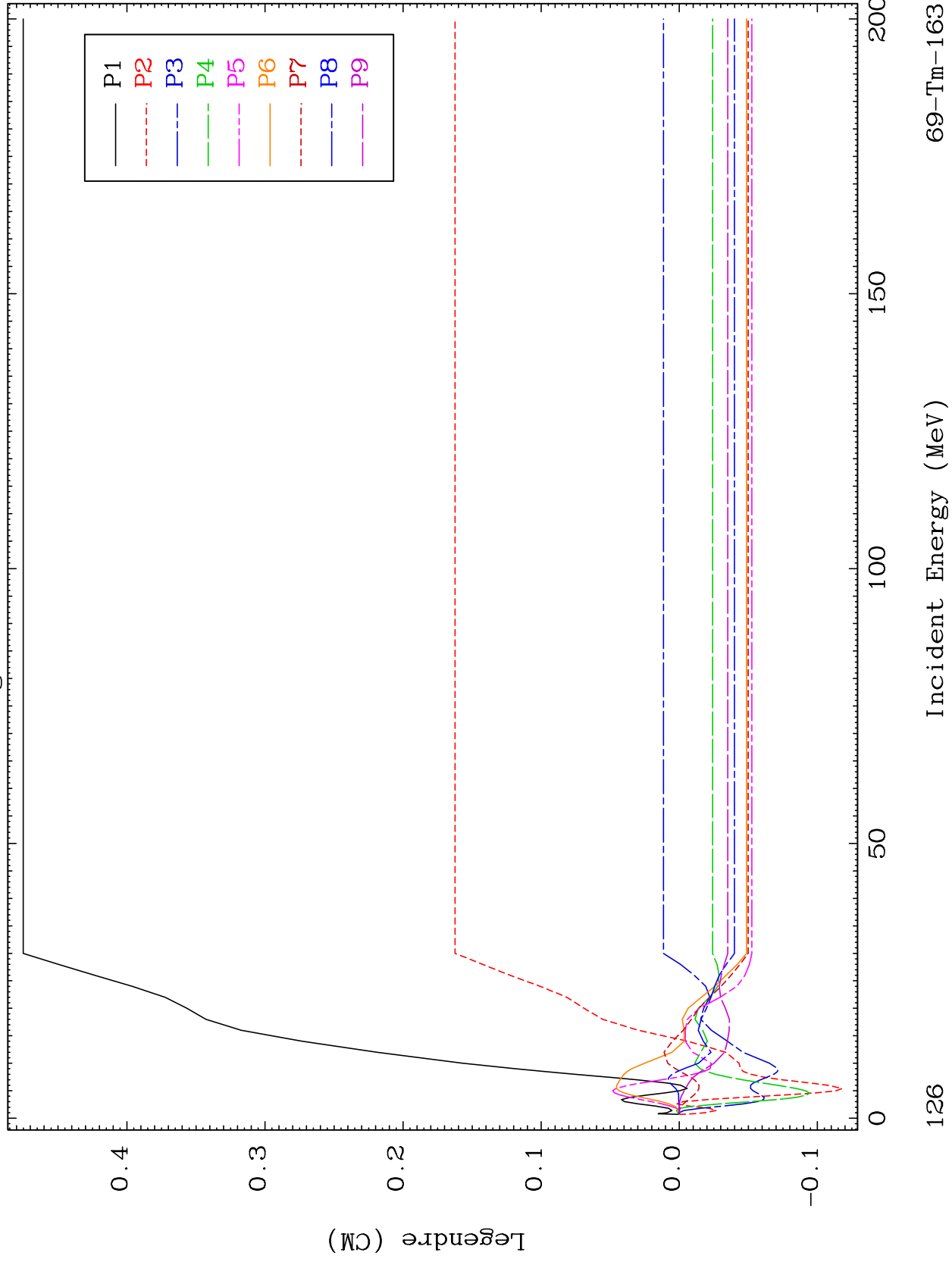
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



69-Tm-163

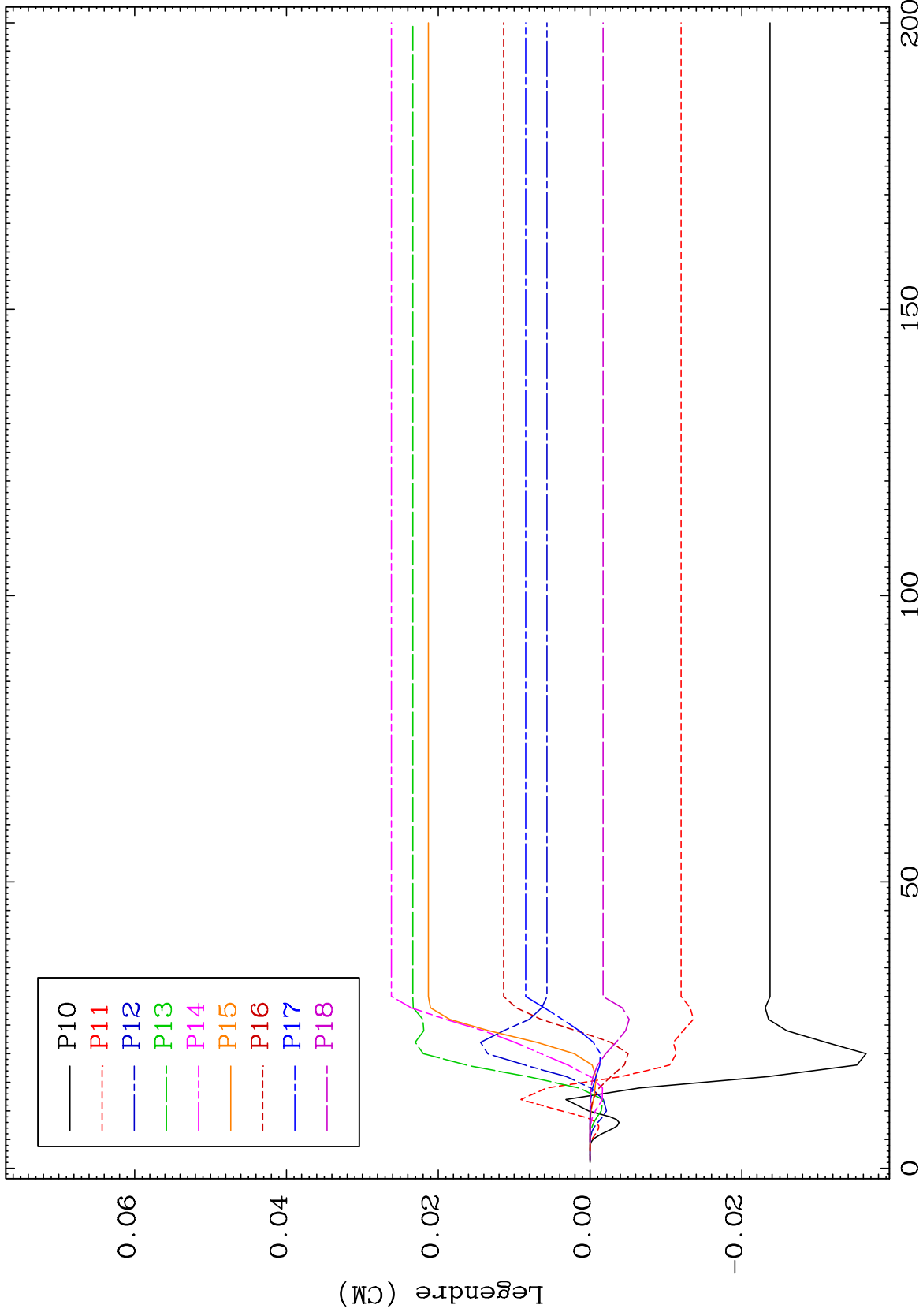
Incident Energy (MeV)

126

MAT 6907

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

69-Tm-163



127

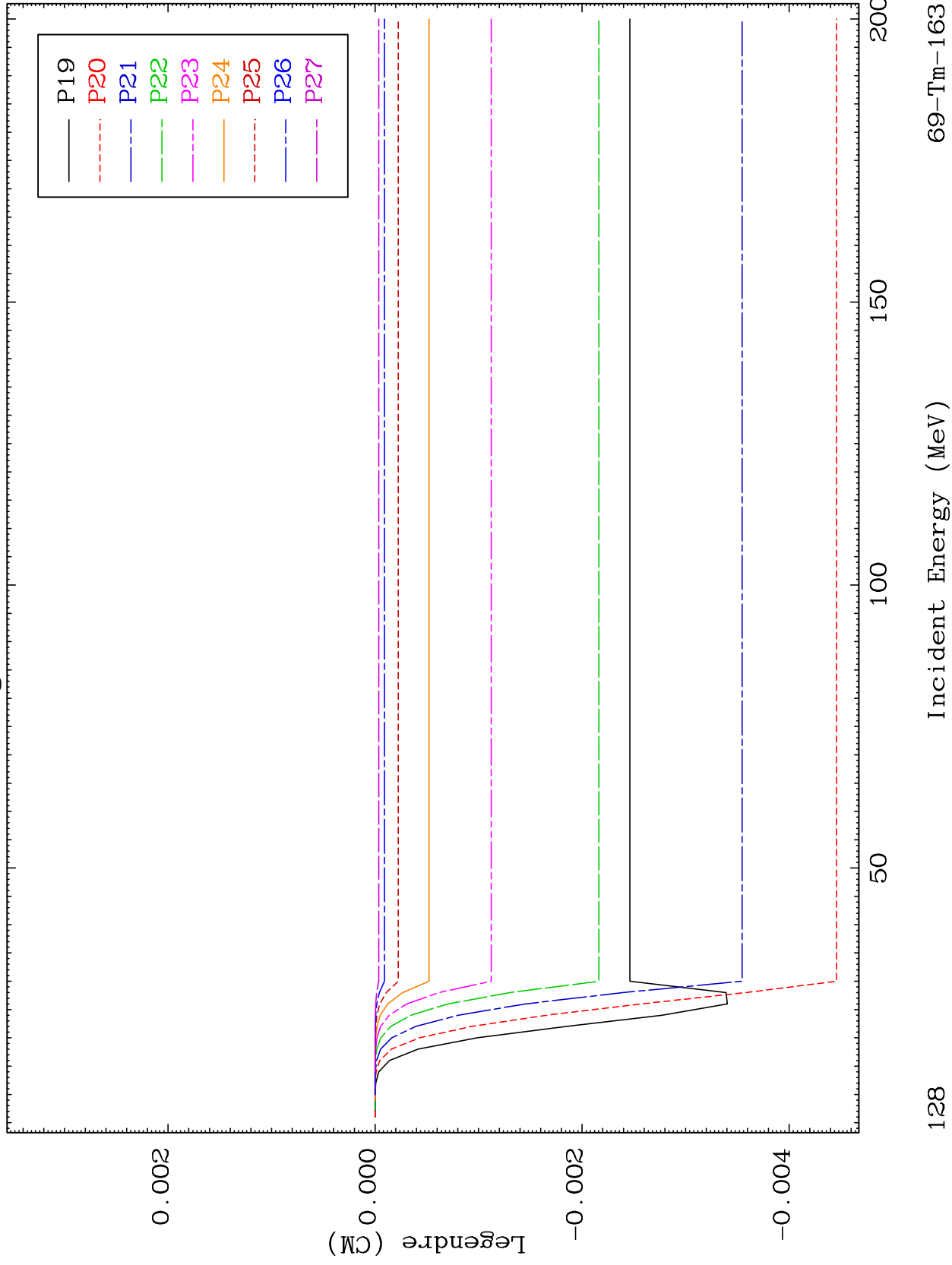
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

69-Tm-163



128

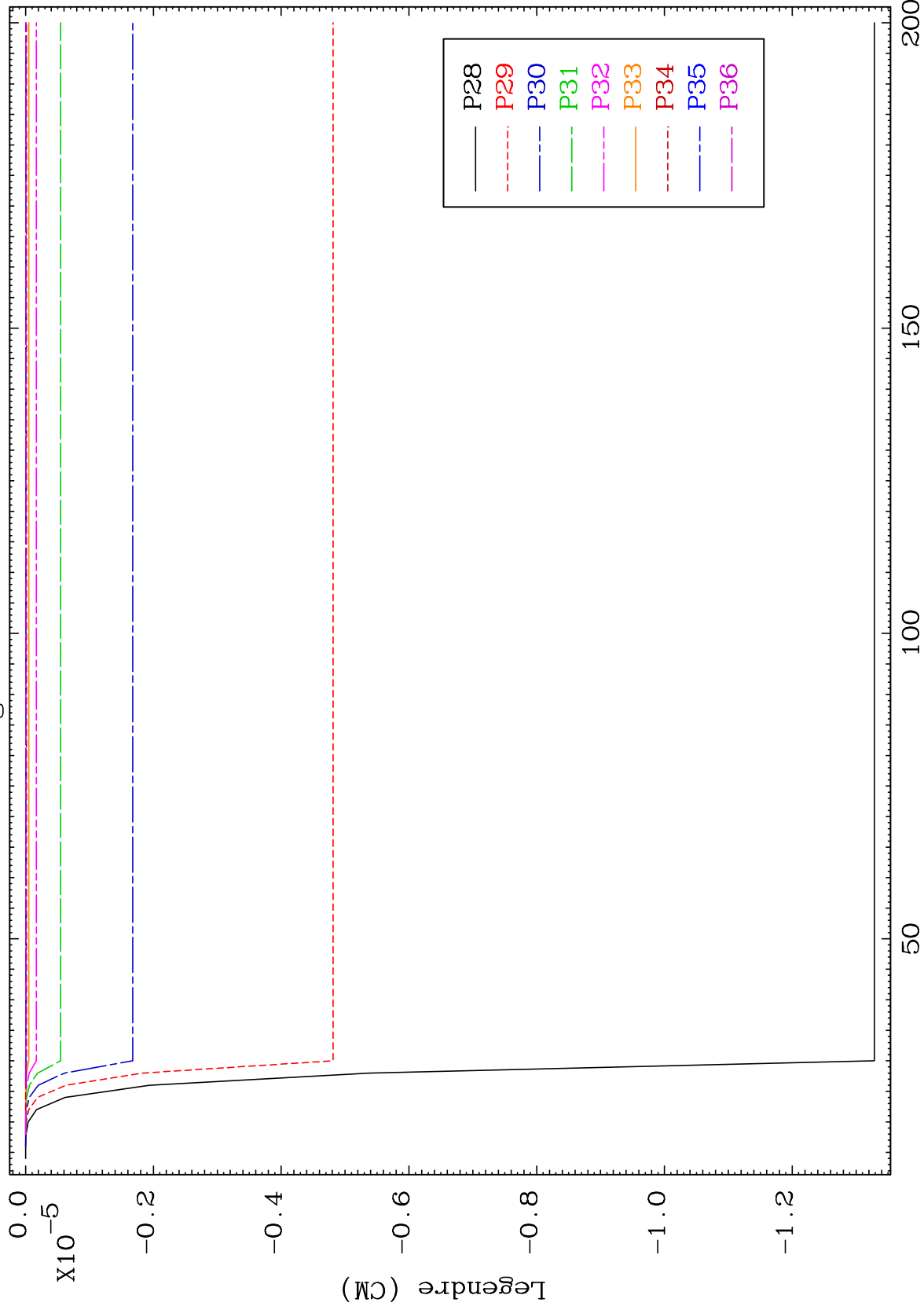
Incident Energy (MeV)

69-Tm-163

MAT 6907

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

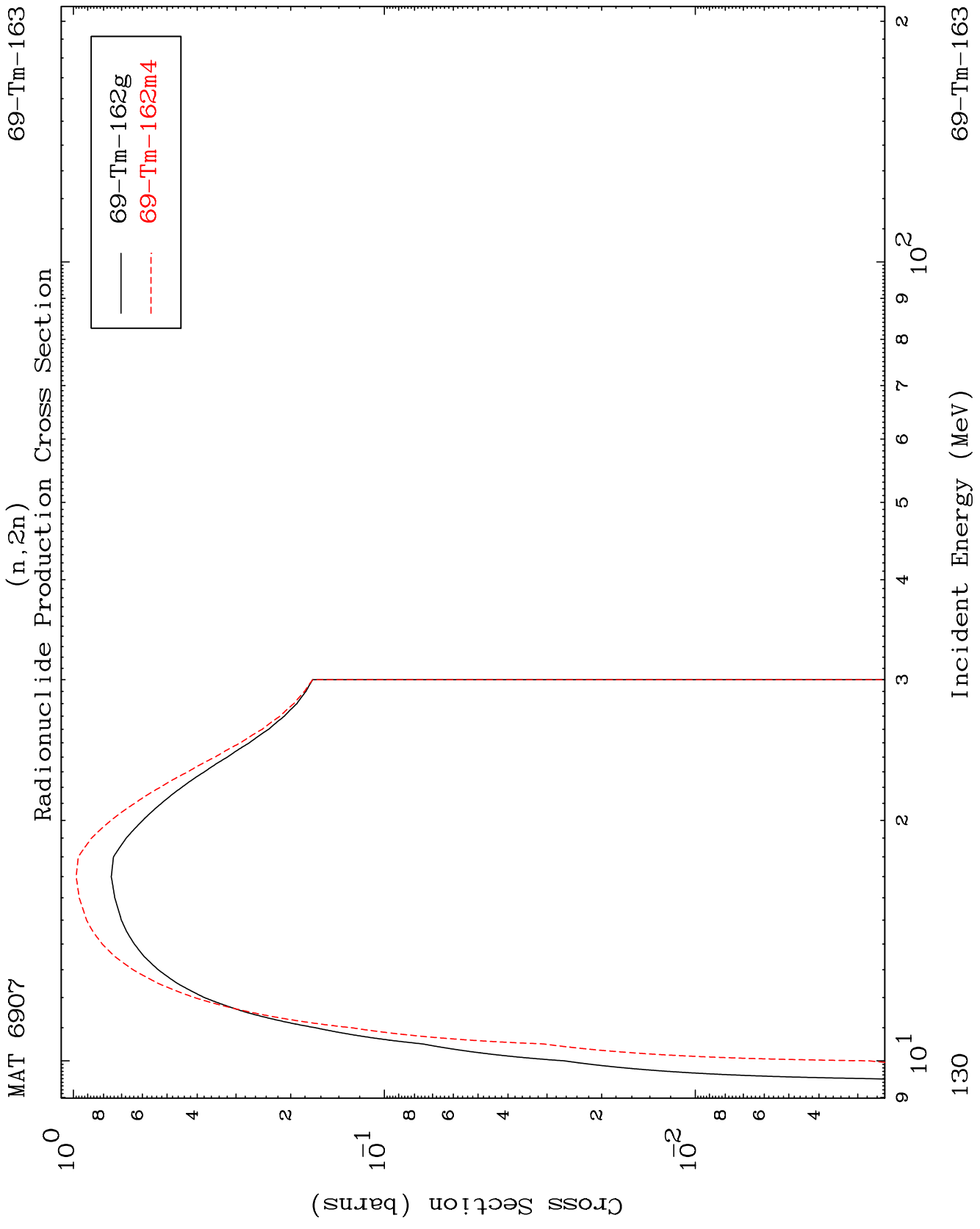
69-Tm-163



129

Incident Energy (MeV)

69-Tm-163



130

10¹

2

3

4

5

6

7

8

9

10²

2

10⁰

10⁻¹

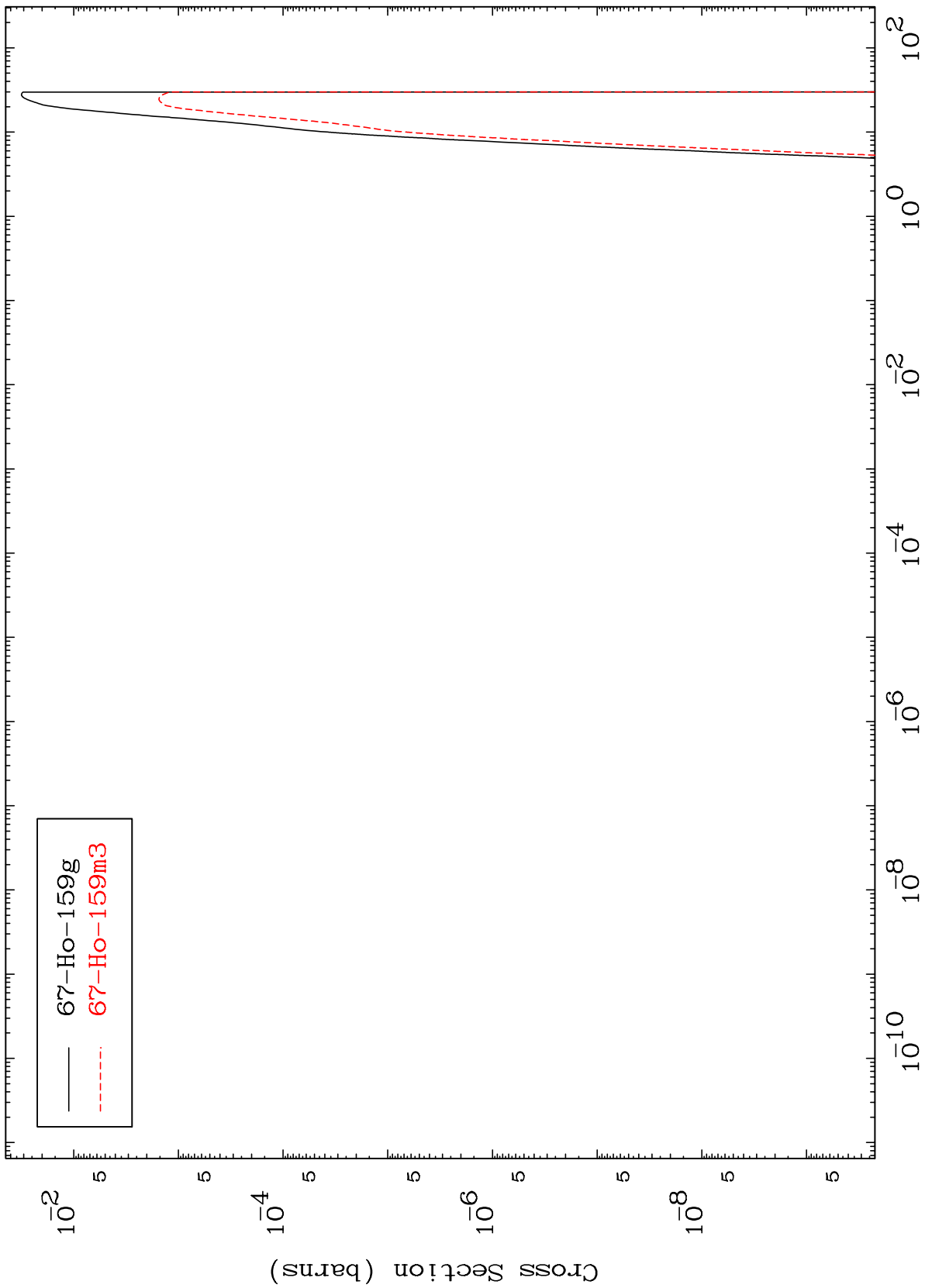
10⁻²

MAT 6907

$(n, n') \alpha$

69-Tm-163

Radionuclide Production Cross Section

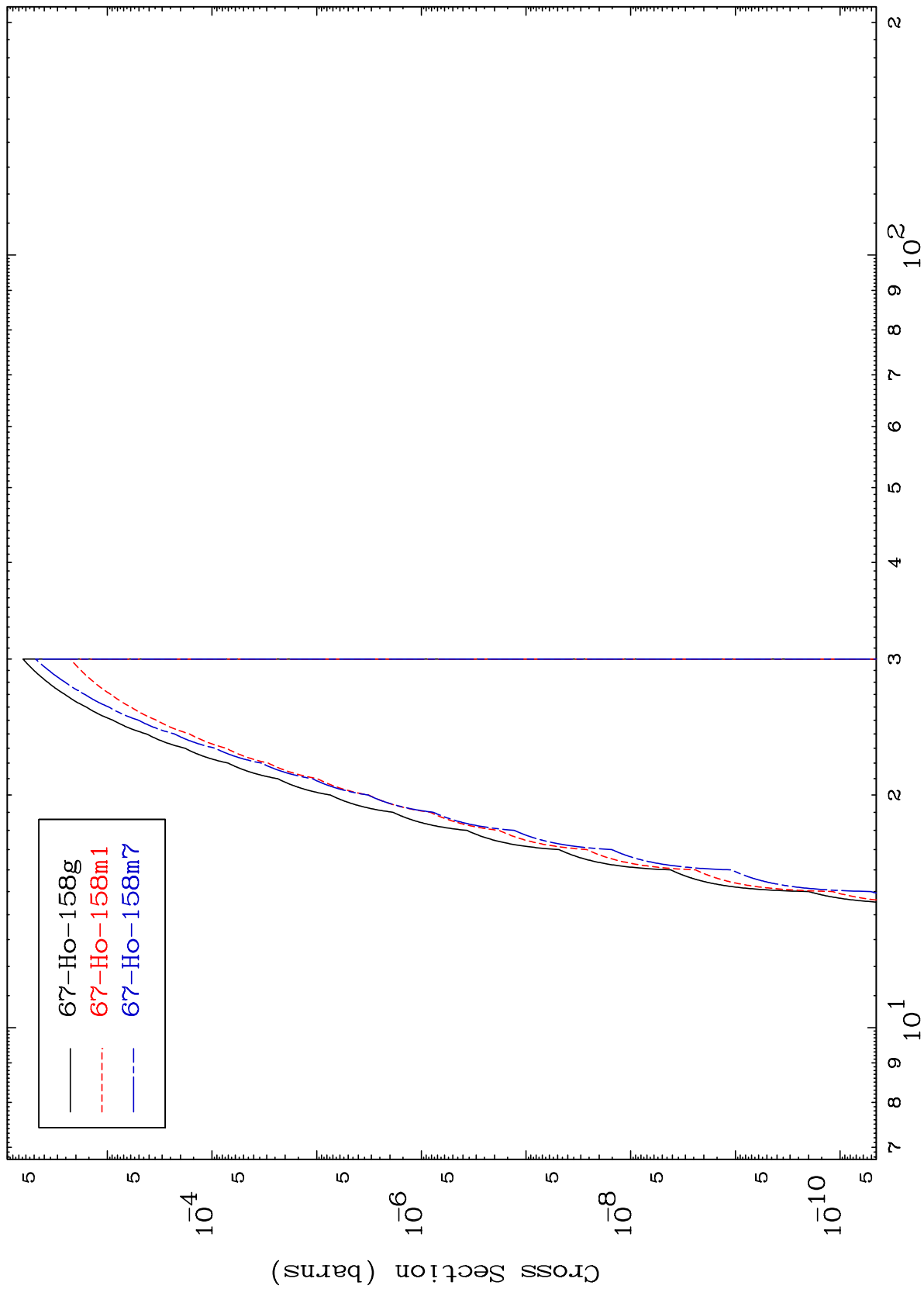


MAT 6907

$(n,2n) \alpha$

69-Tm-163

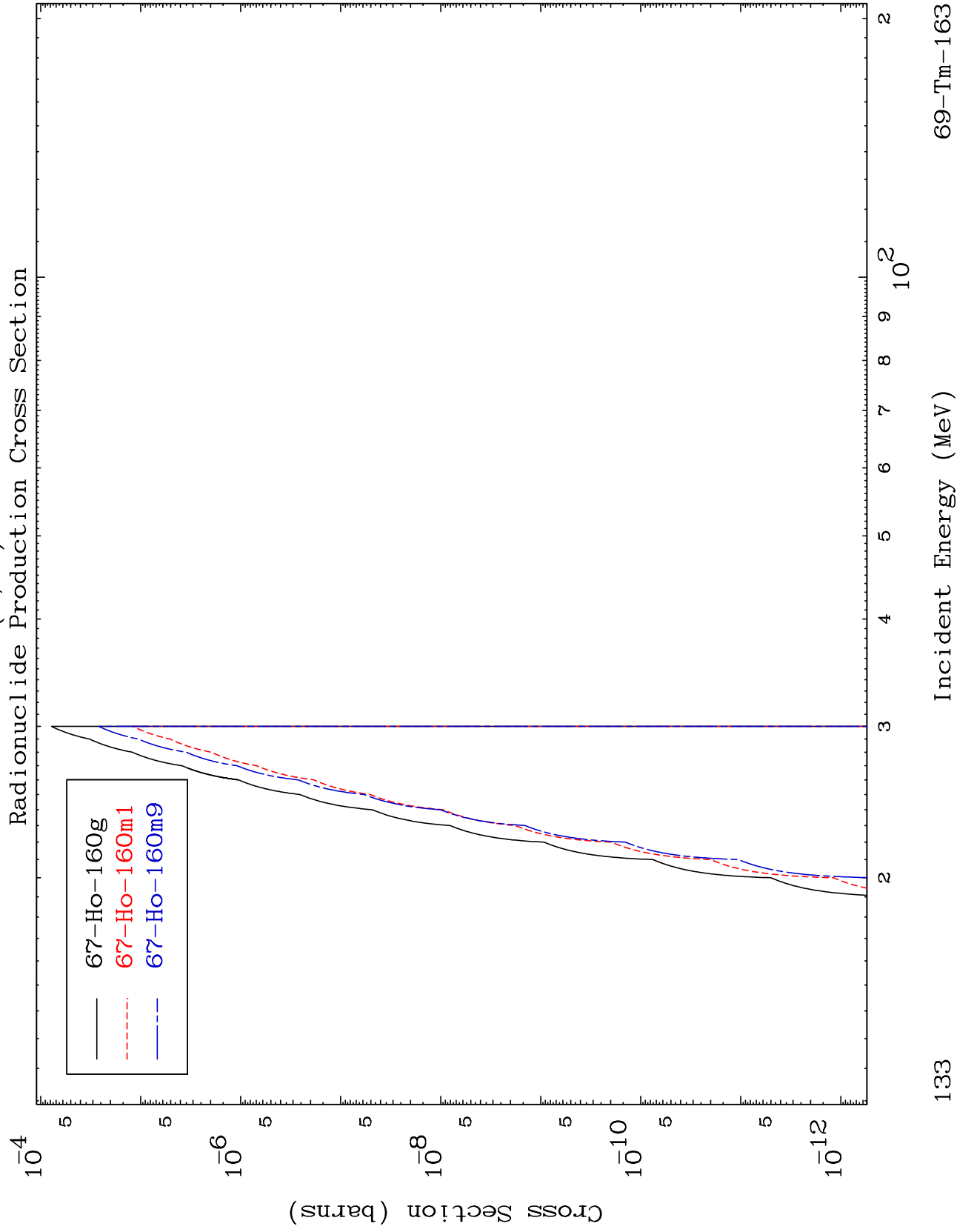
Radionuclide Production Cross Section



132

Incident Energy (MeV)

69-Tm-163

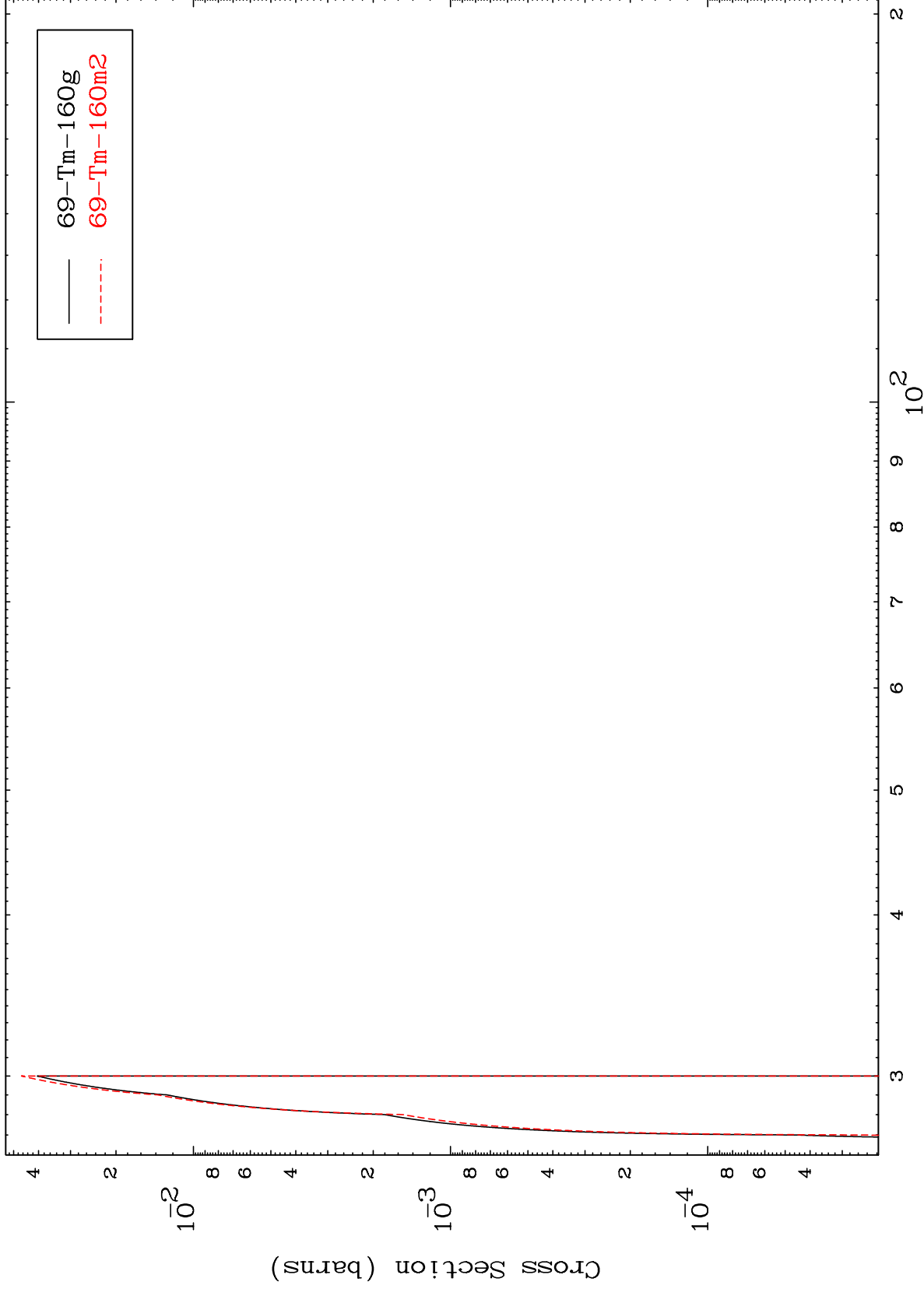


MAT 6907

(n,4n)

69-Tm-163

Radionuclide Production Cross Section



134

Incident Energy (MeV)

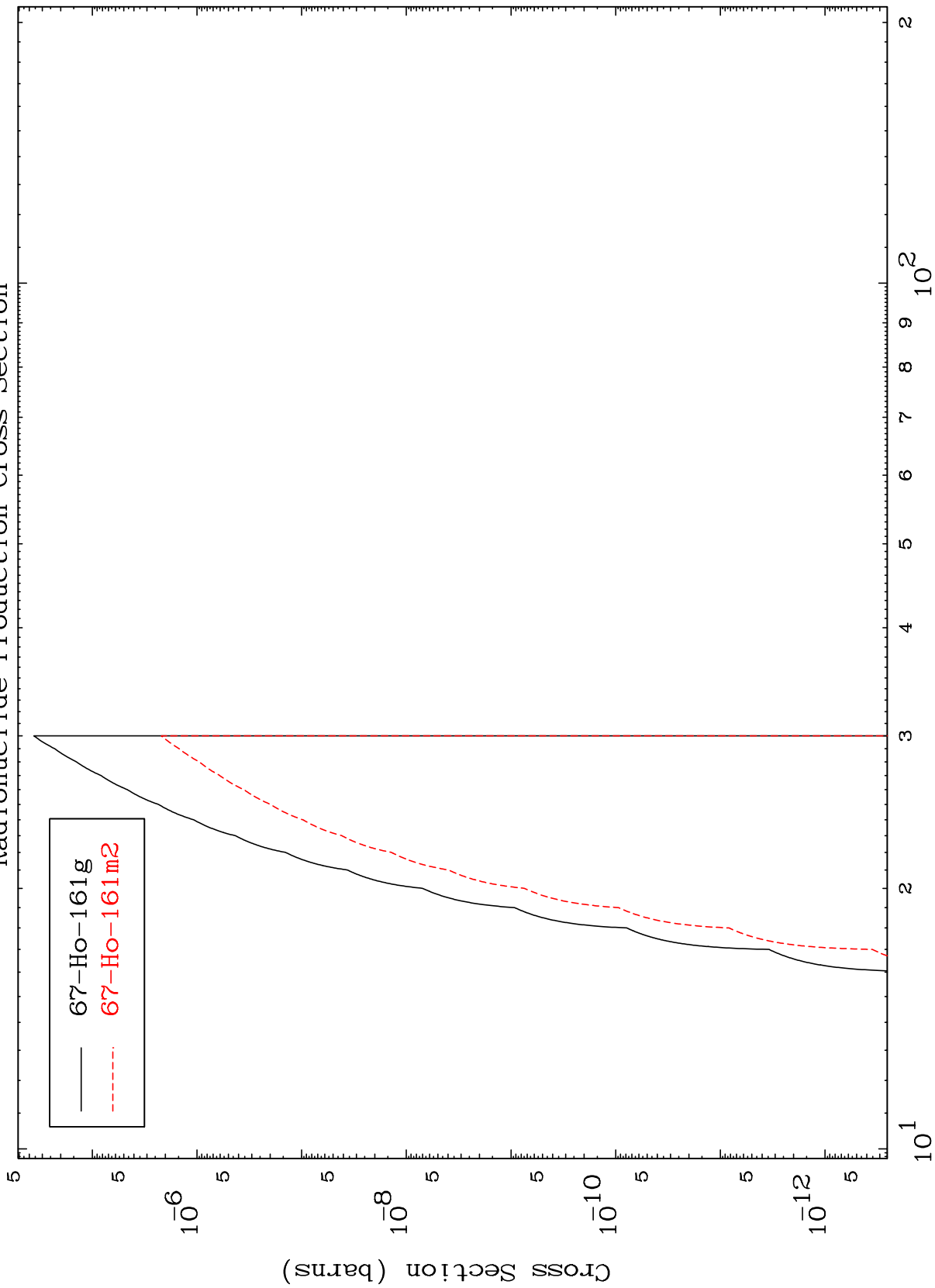
69-Tm-163

MAT 6907

(n,2n) p

69-Tm-163

Radionuclide Production Cross Section



Incident Energy (MeV)

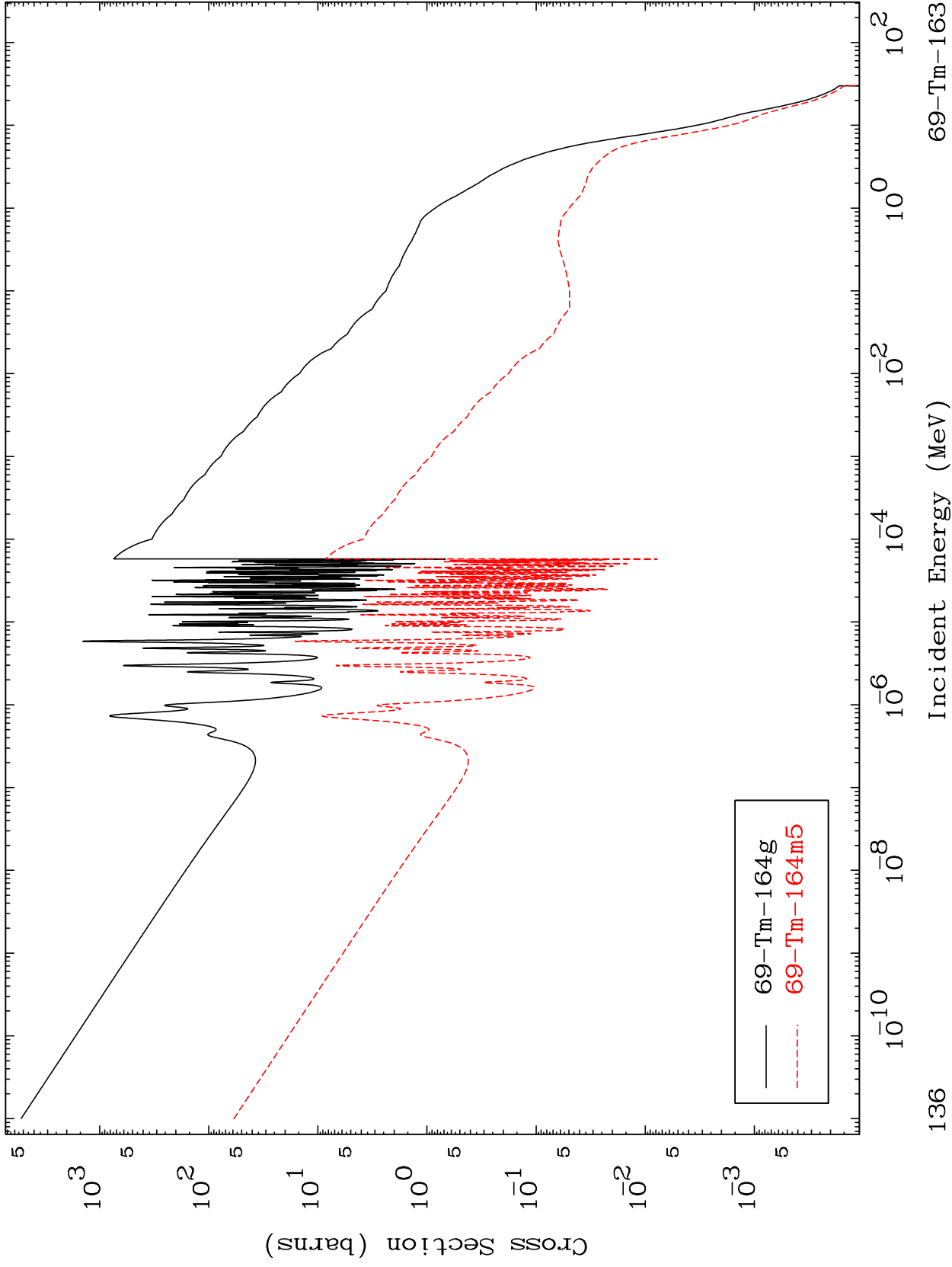
69-Tm-163

135

MAT 6907

69-Tm-163

(n, γ)
Radionuclide Production Cross Section

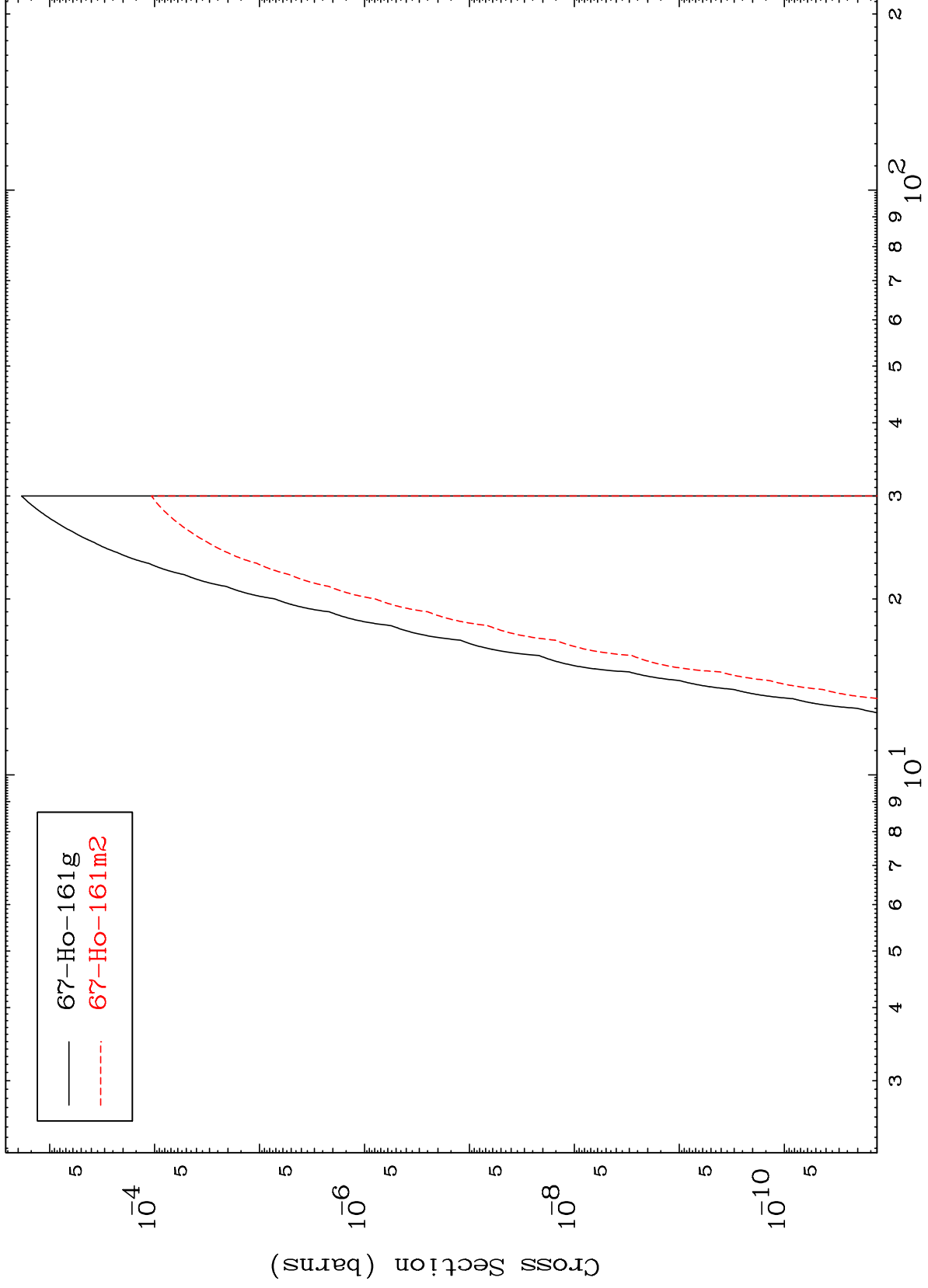


MAT 6907

(n,He-3)

69-Tm-163

Radionuclide Production Cross Section



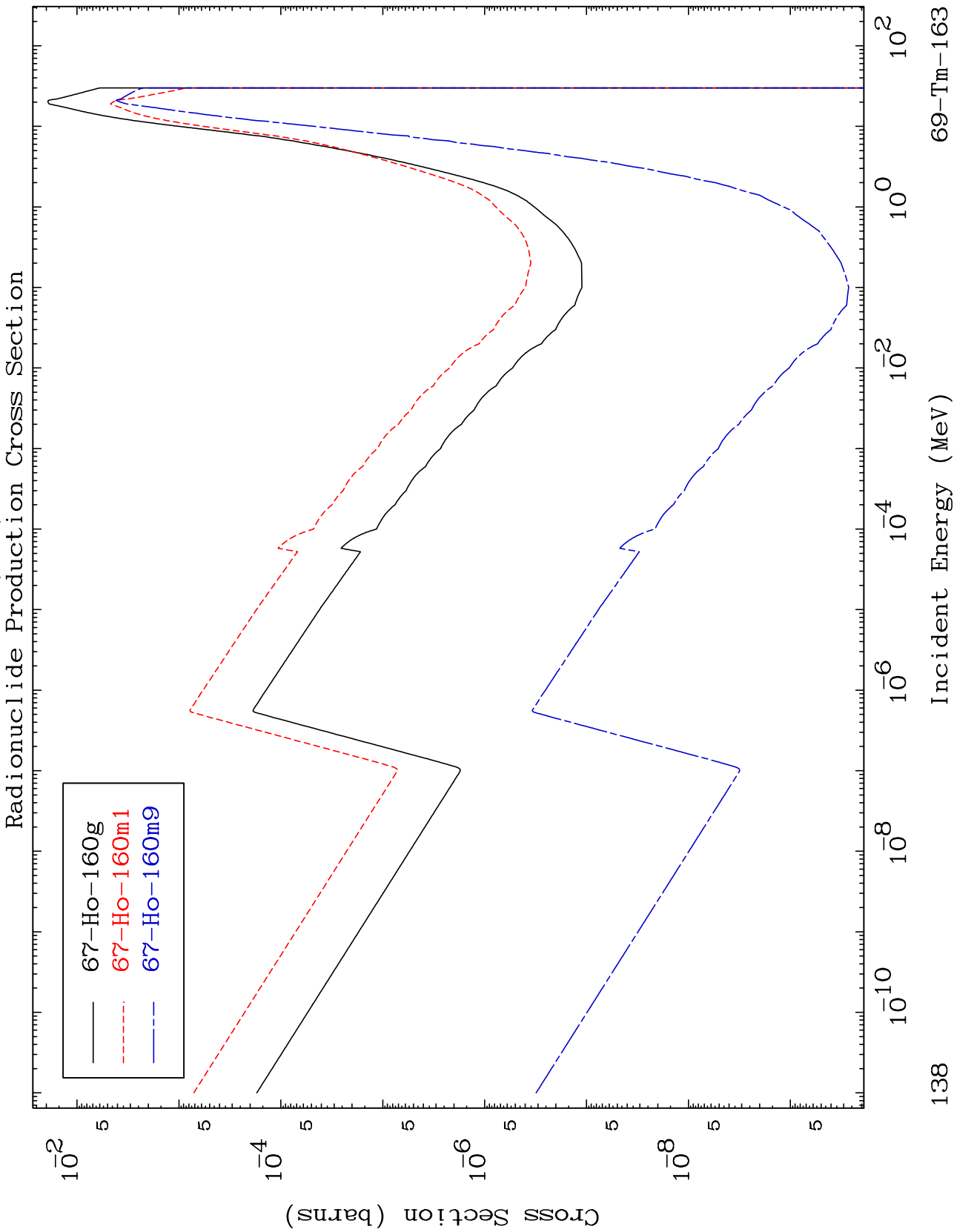
137

Incident Energy (MeV)

69-Tm-163

MAT 6907

69-Tm-163

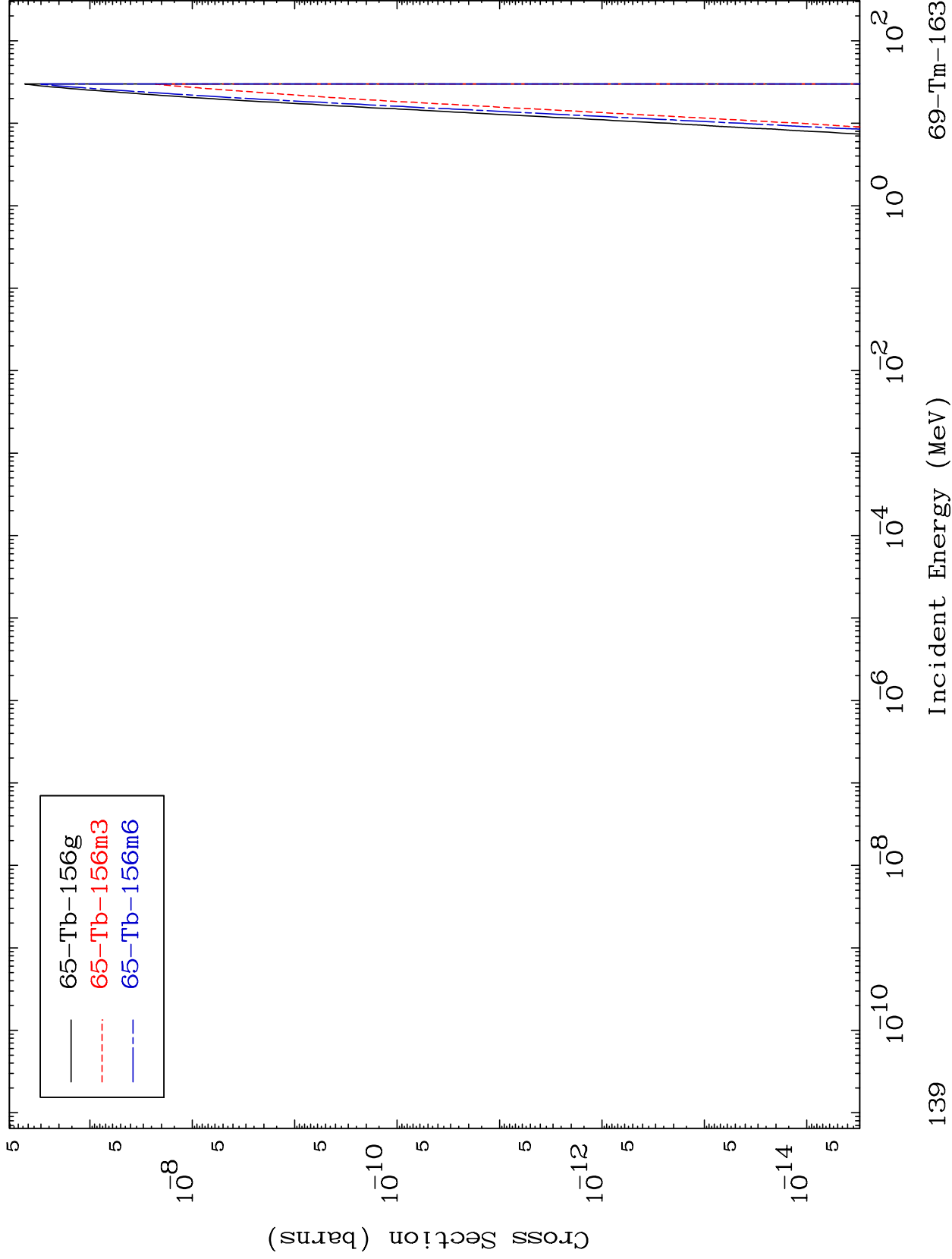


MAT 6907

(n,2α)

69-Tm-163

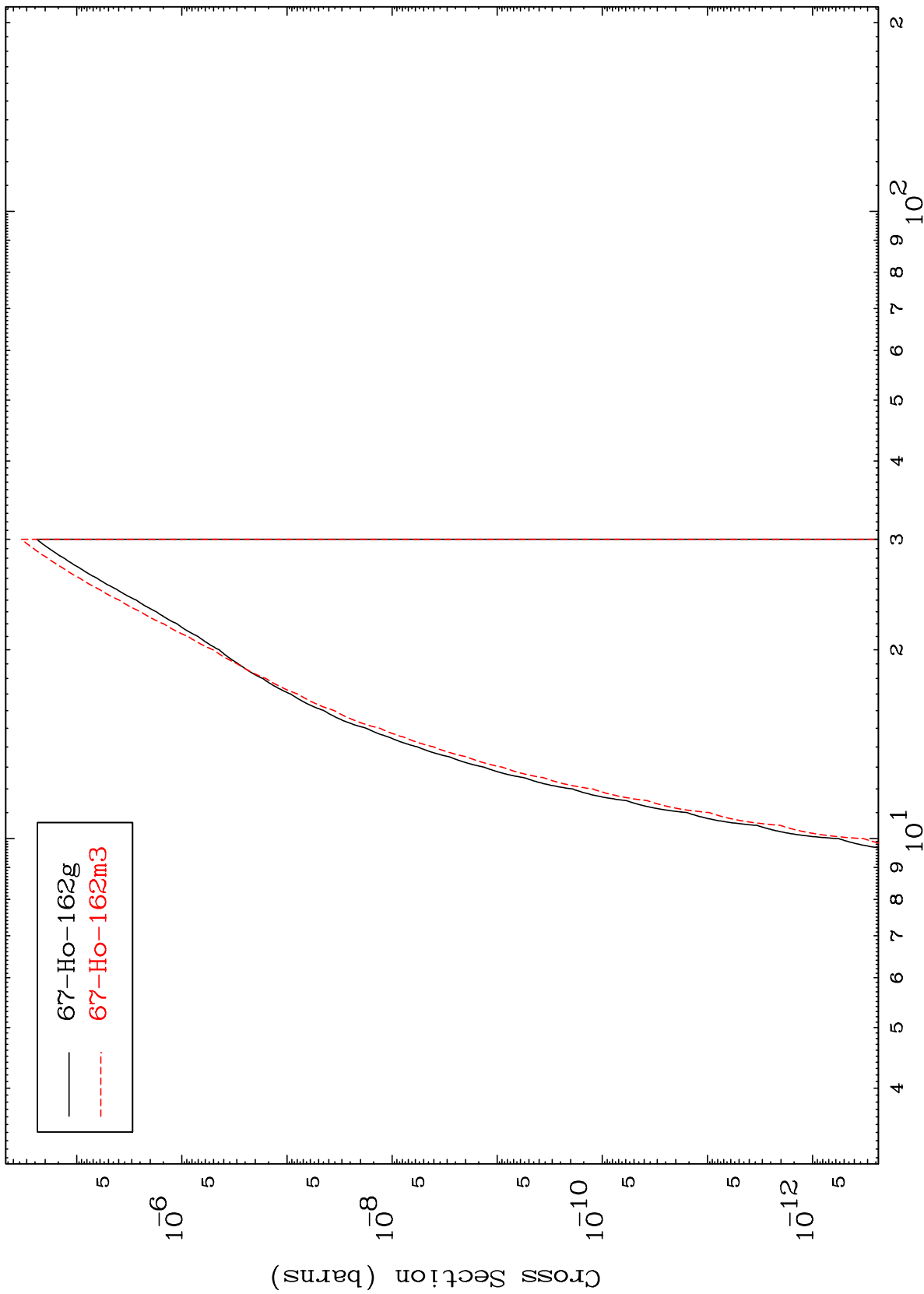
Radionuclide Production Cross Section



MAT 6907

69-Tm-163

(n,2p)
Radionuclide Production Cross Section



140

69-Tm-163

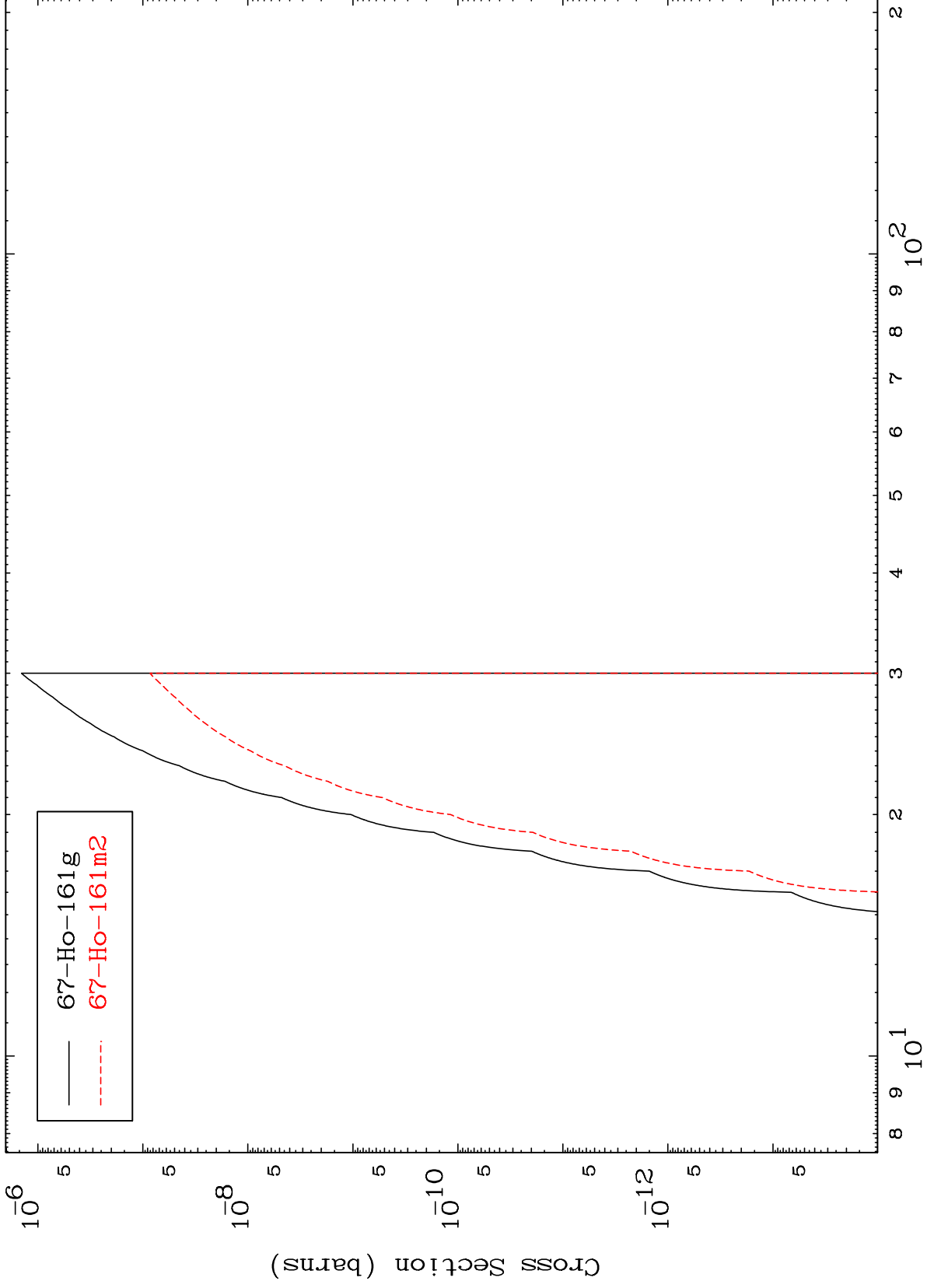
Incident Energy (MeV)

MAT 6907

(n,p) d

69-Tm-163

Radionuclide Production Cross Section



67-Ho-161g
67-Ho-161m2

141

Incident Energy (MeV)

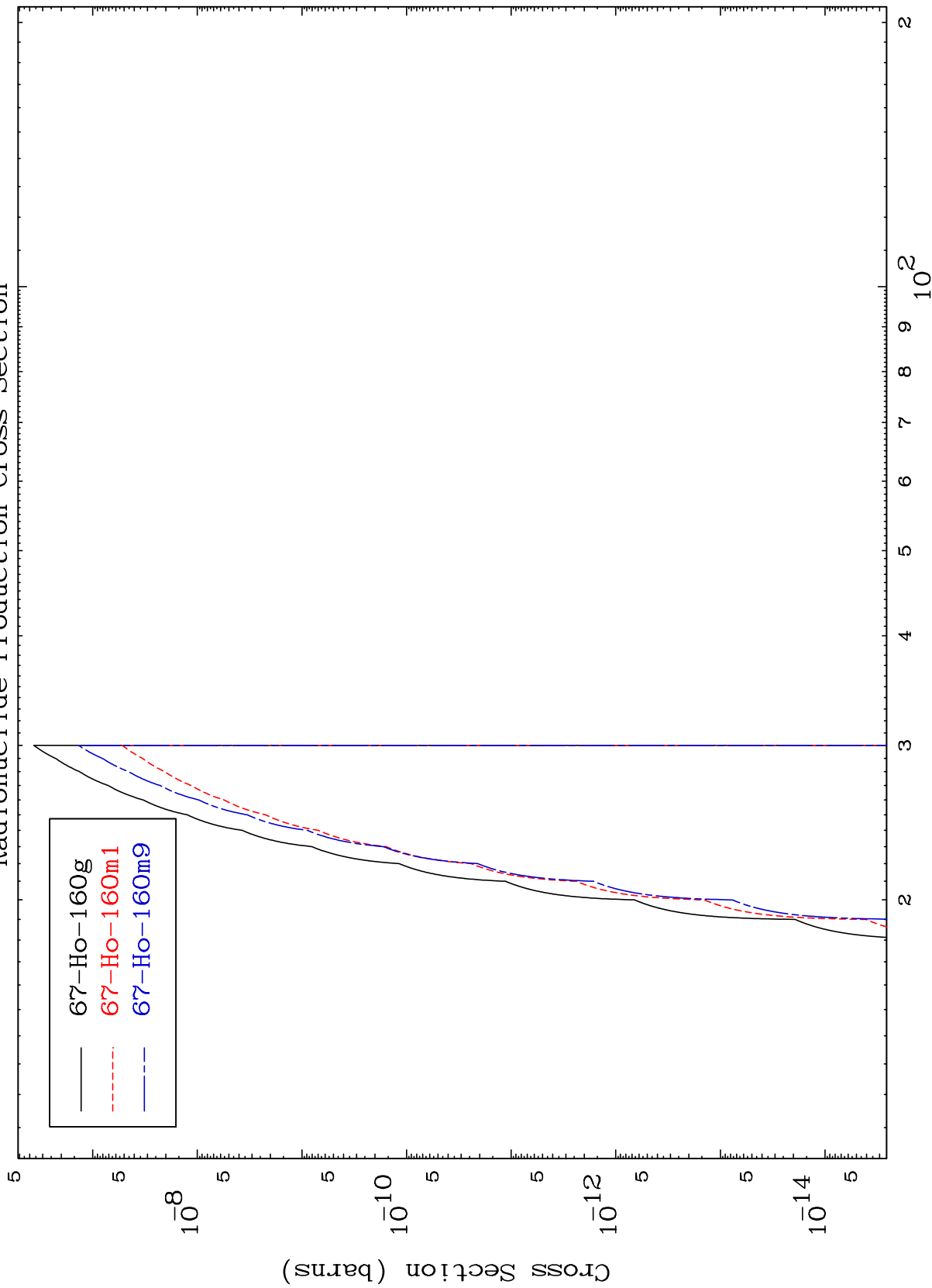
69-Tm-163

MAT 6907

(n,p) t

69-Tm-163

Radionuclide Production Cross Section



142

Incident Energy (MeV)

69-Tm-163