

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

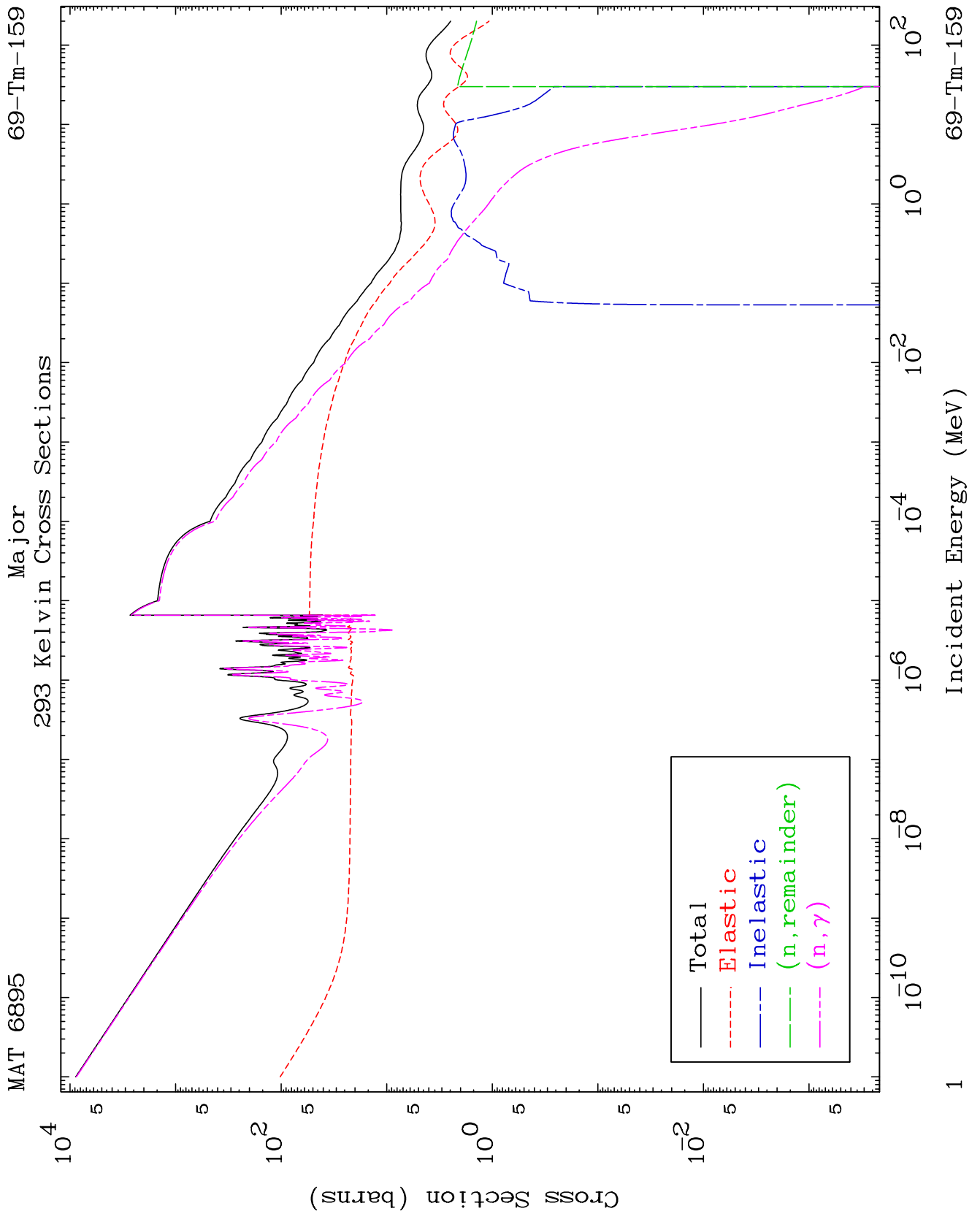
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

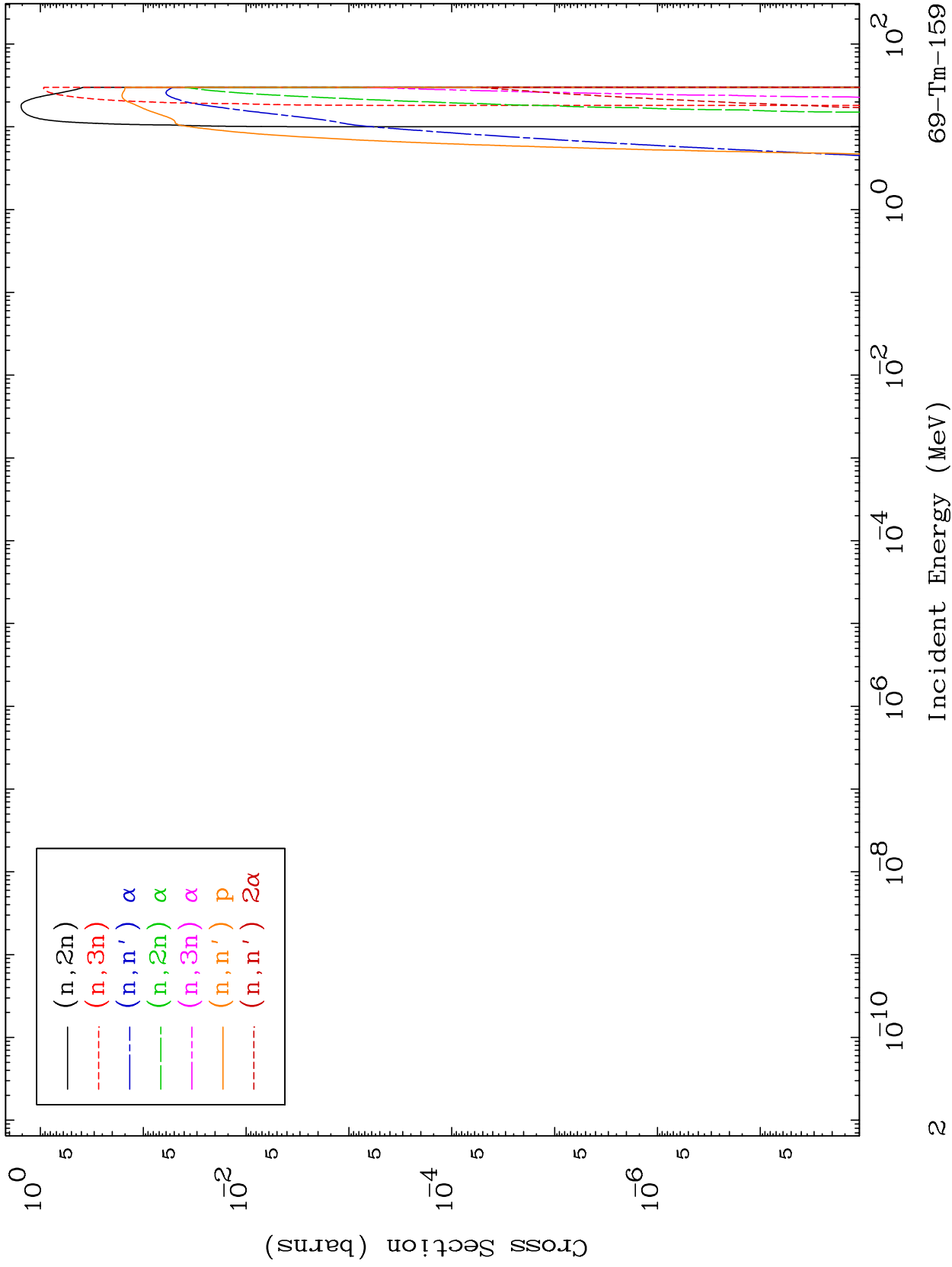
Press Mouse Button to Start

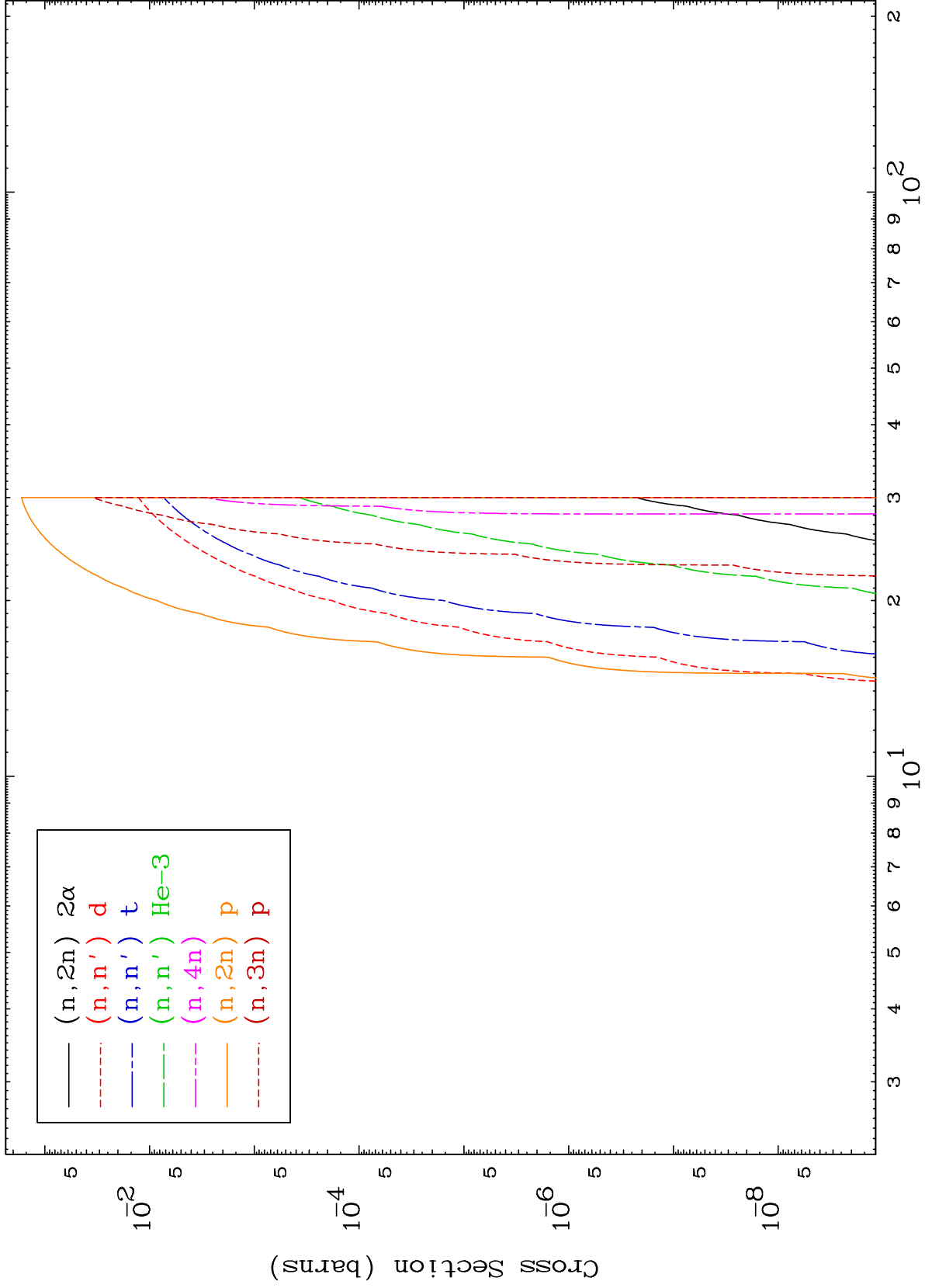


MAT 6895

Neutron Production
293 Kelvin Cross Sections

69-Tm-159

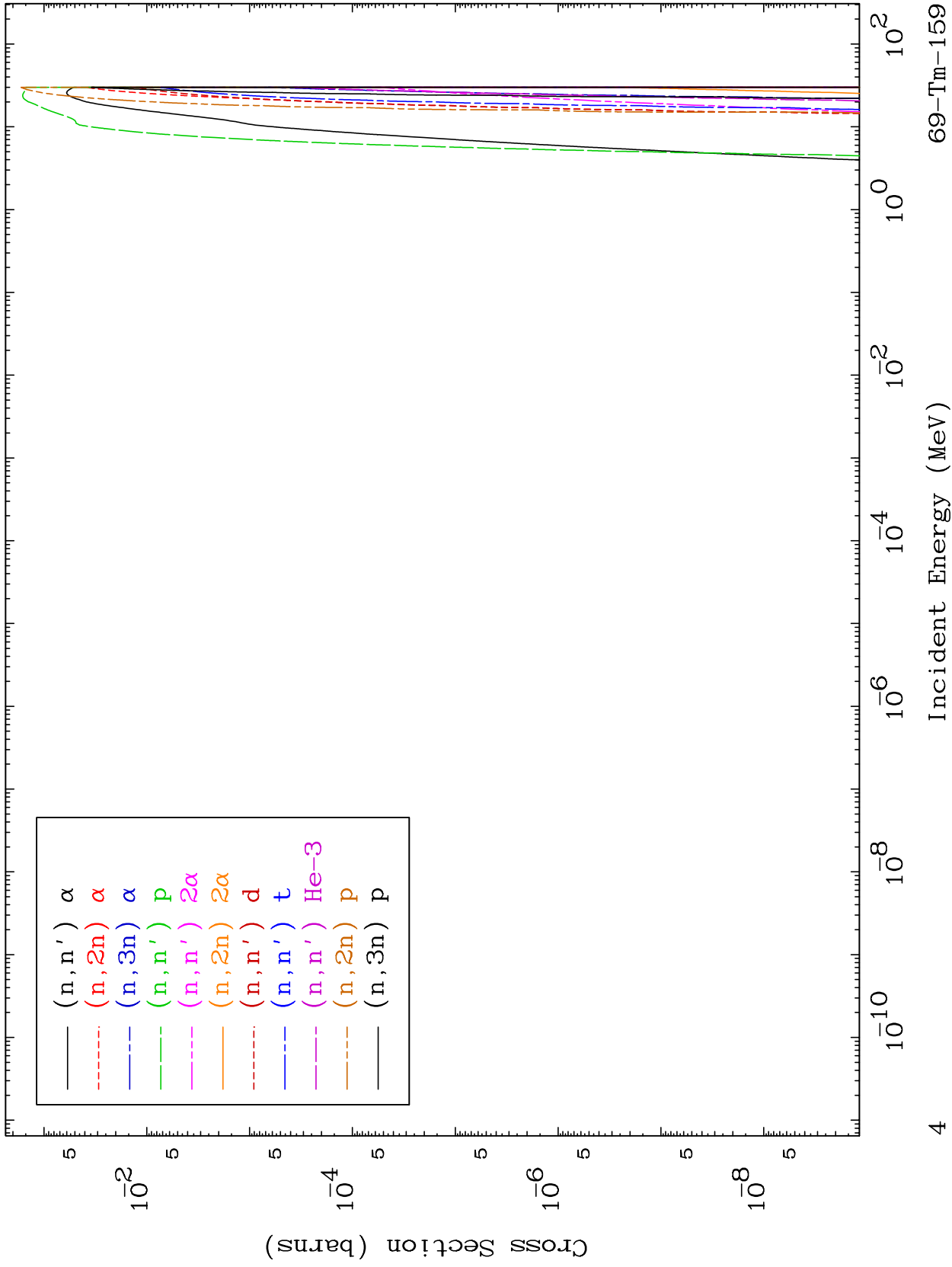




MAT 6895

Charged Particle
293 Kelvin Cross Sections

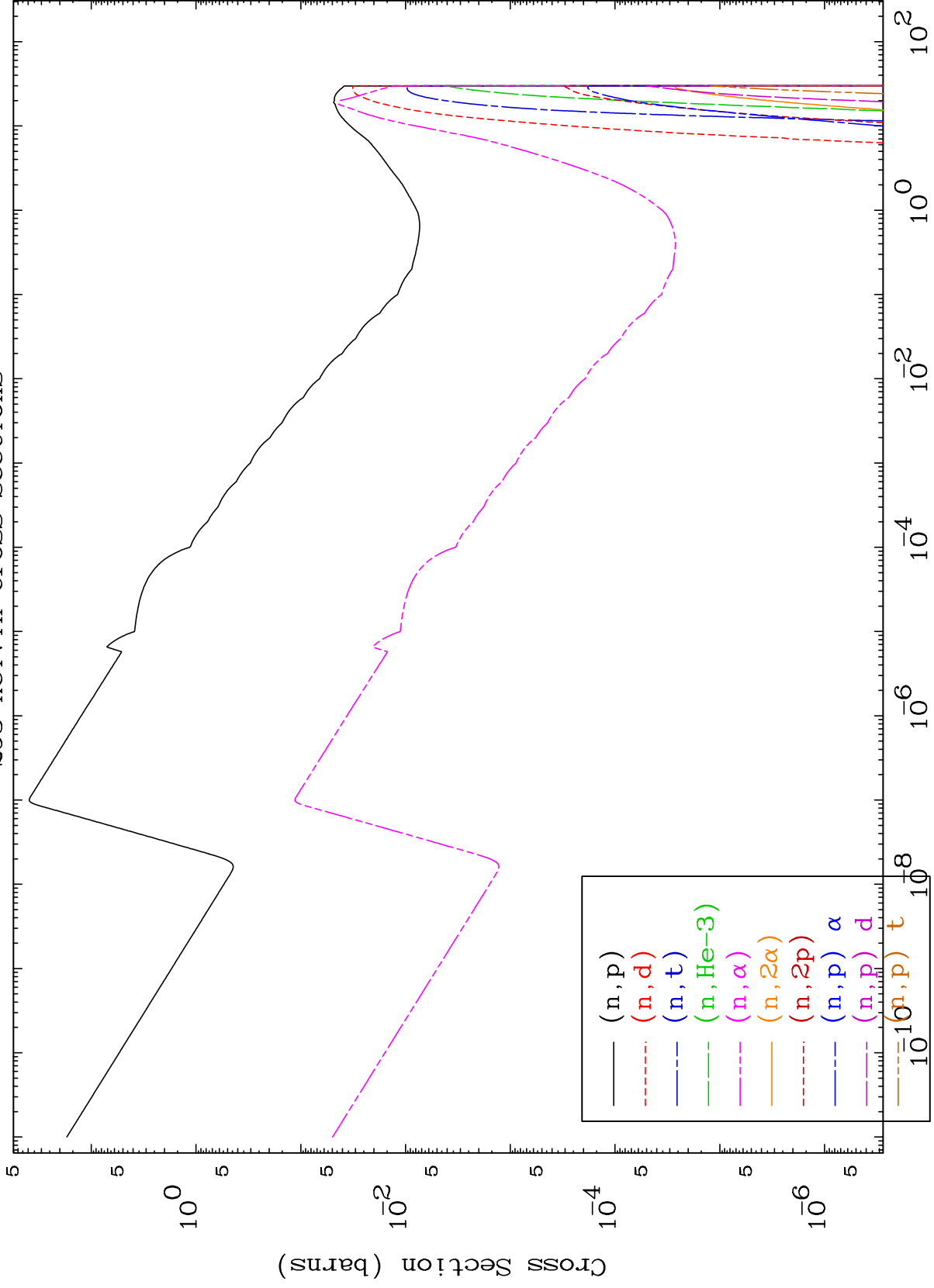
69-Tm-159



MAT 6895

Charged Particle
293 Kelvin Cross Sections

69-Tm-159



5

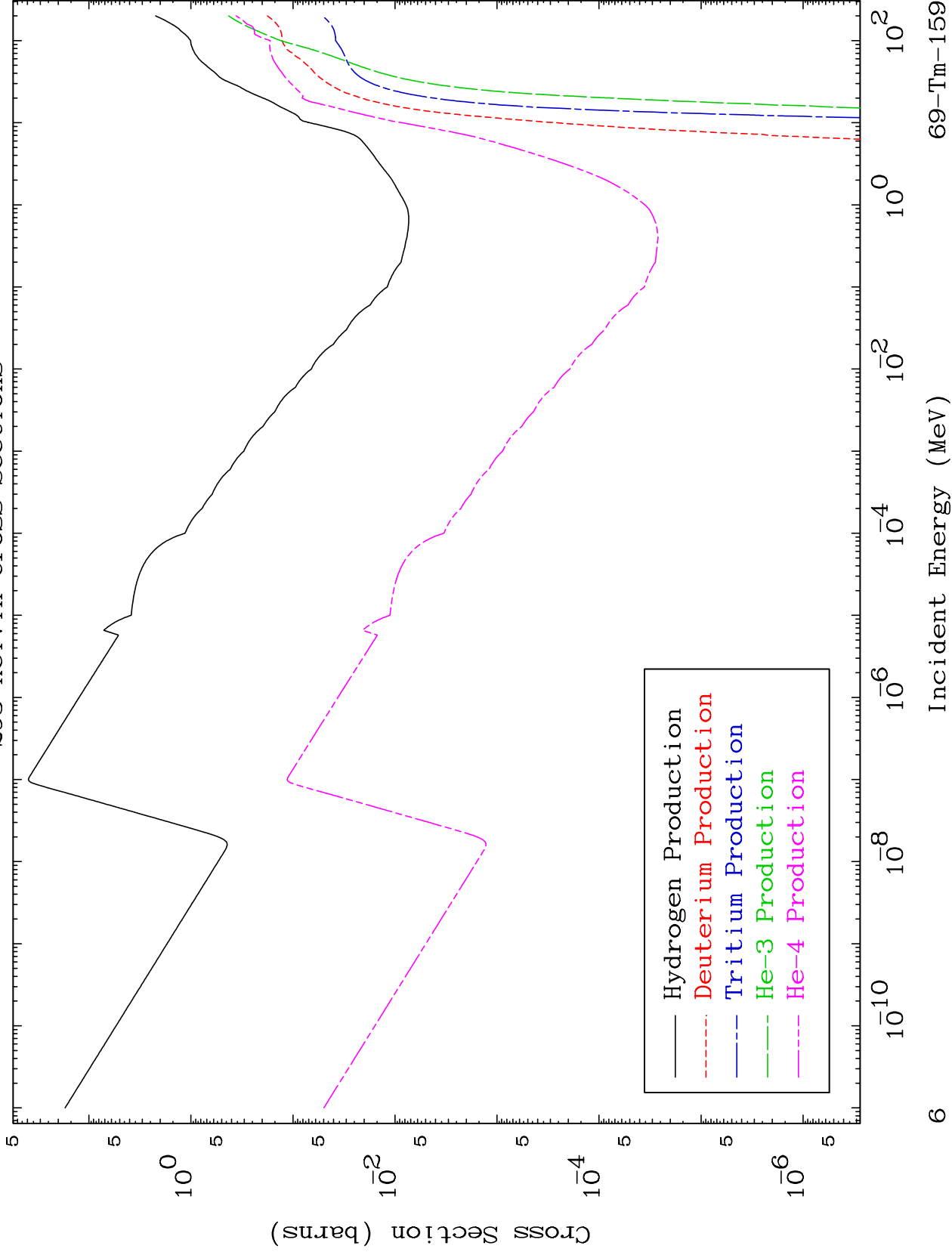
Incident Energy (MeV)

69-Tm-159

MAT 6895

Particle Production
293 Kelvin Cross Sections

69-Tm-159

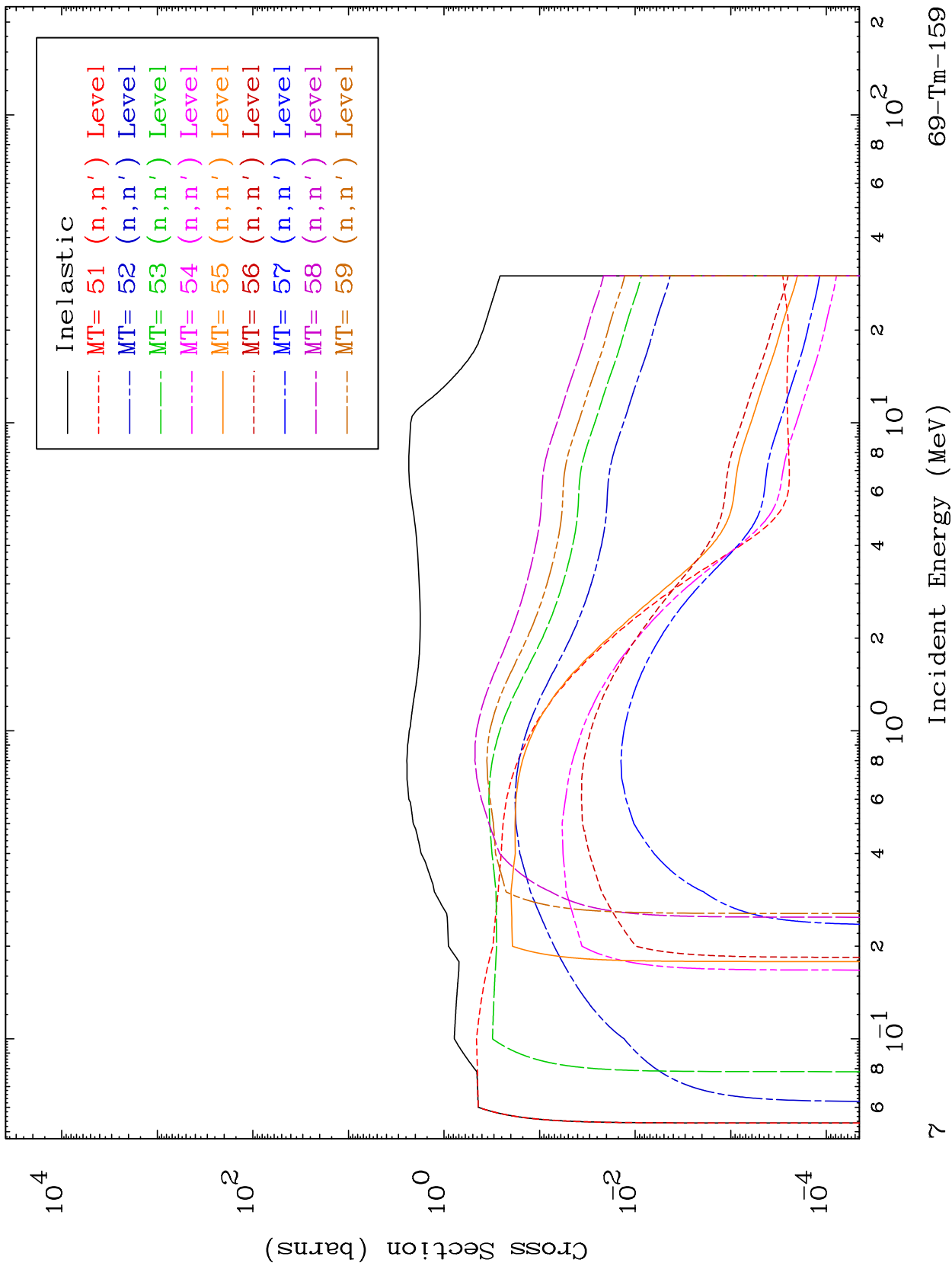


MAT 6895

(n,n') Level

69-Tm-159

293 Kelvin Cross Sections

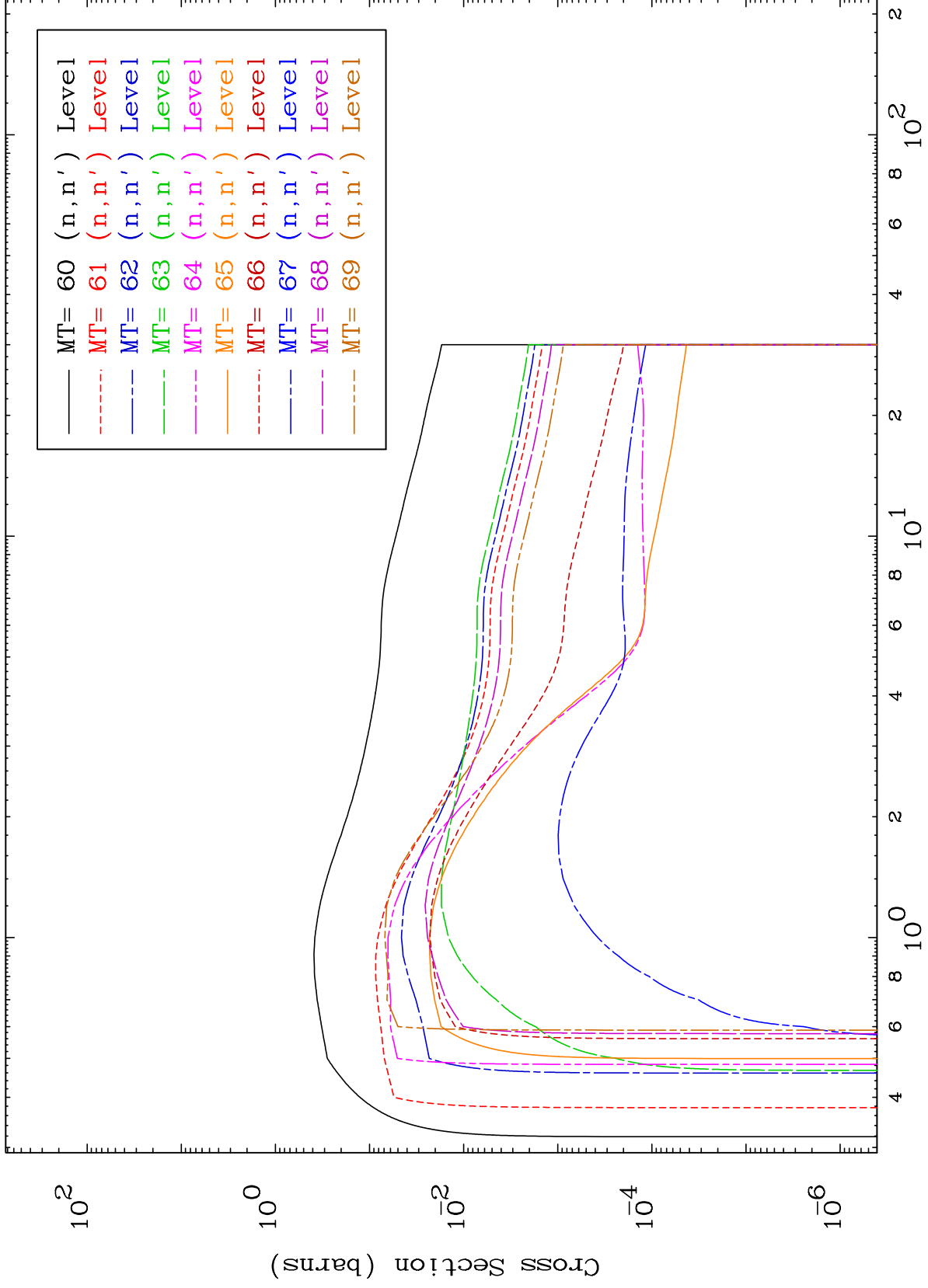


MAT 6895

(n,n') Level

69-Tm-159

293 Kelvin Cross Sections

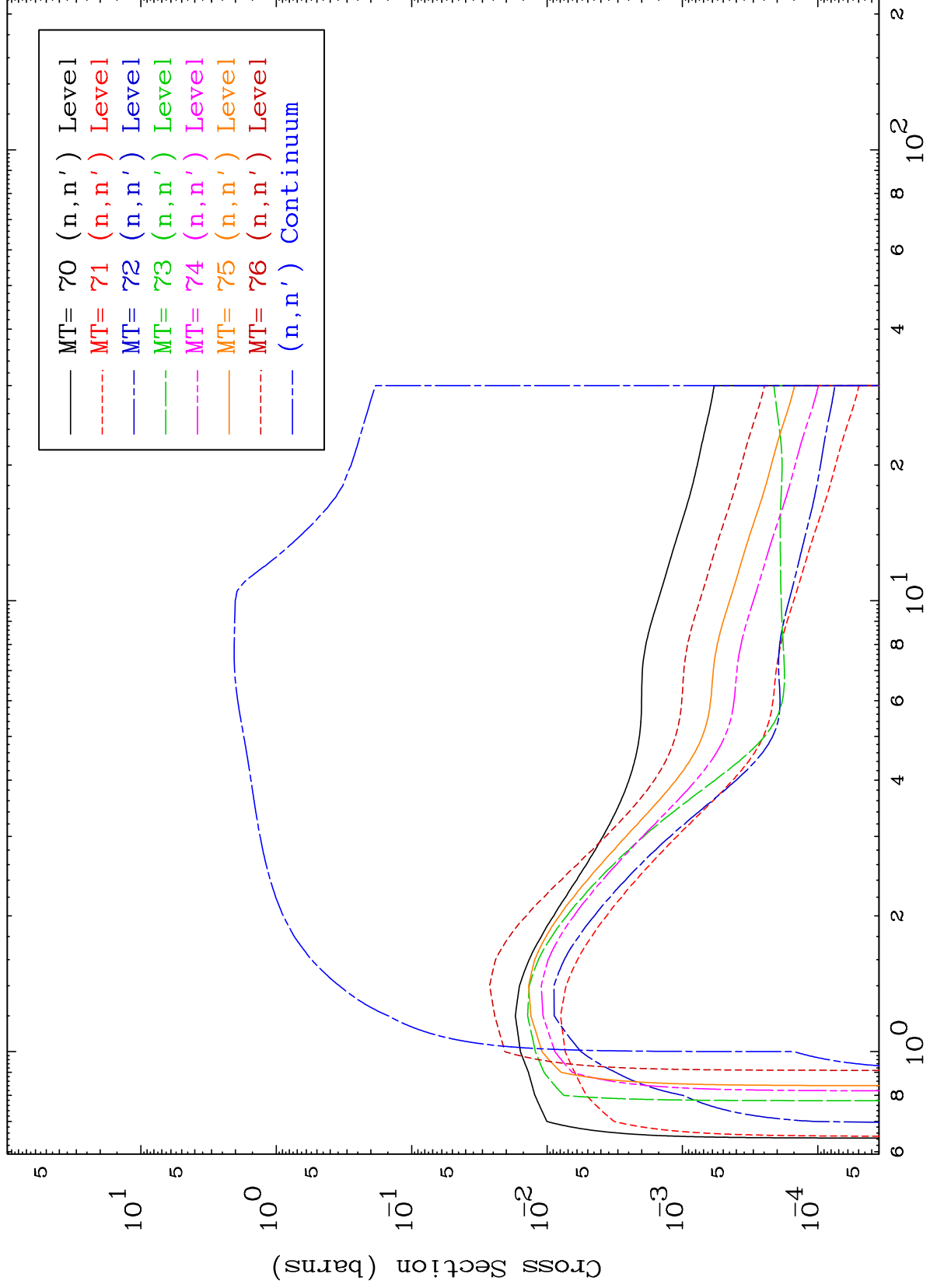


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Incident Energy (MeV)

69-Tm-159

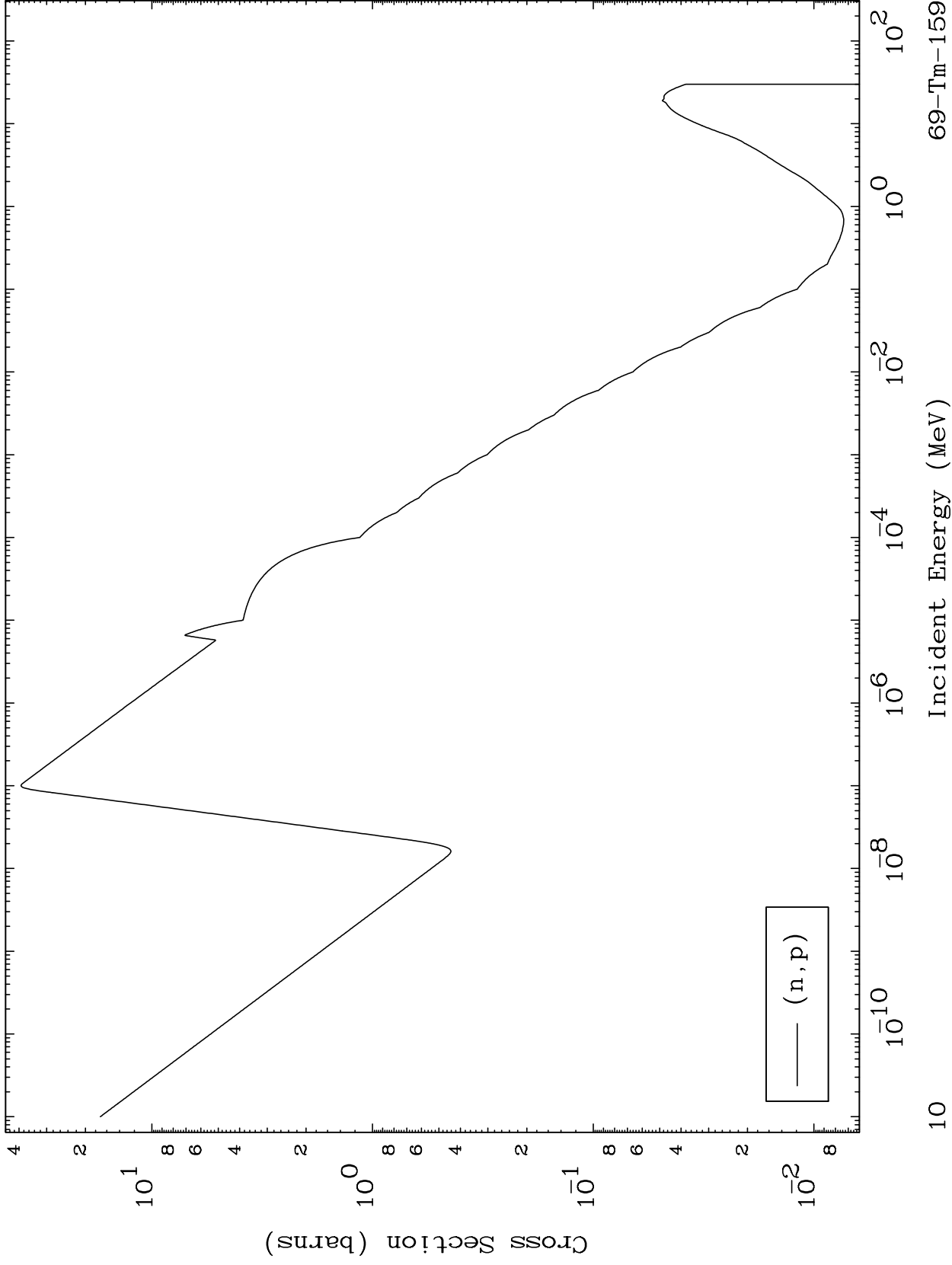
293 Kelvin Cross Sections



MAT 6895

(n,p) Levels
293 Kelvin Cross Sections

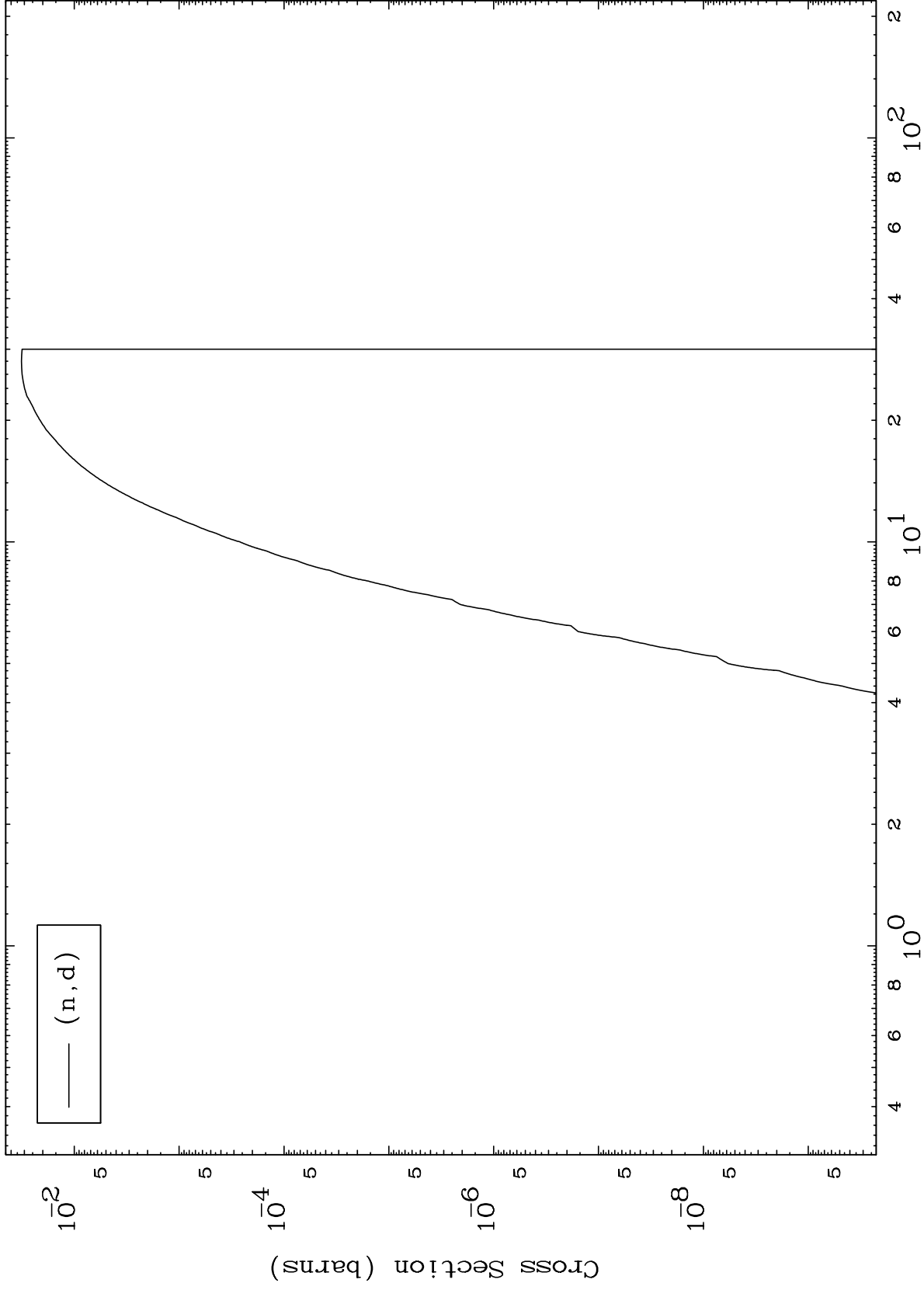
69-Tm-159



MAT 6895

(n,d) Levels
293 Kelvin Cross Sections

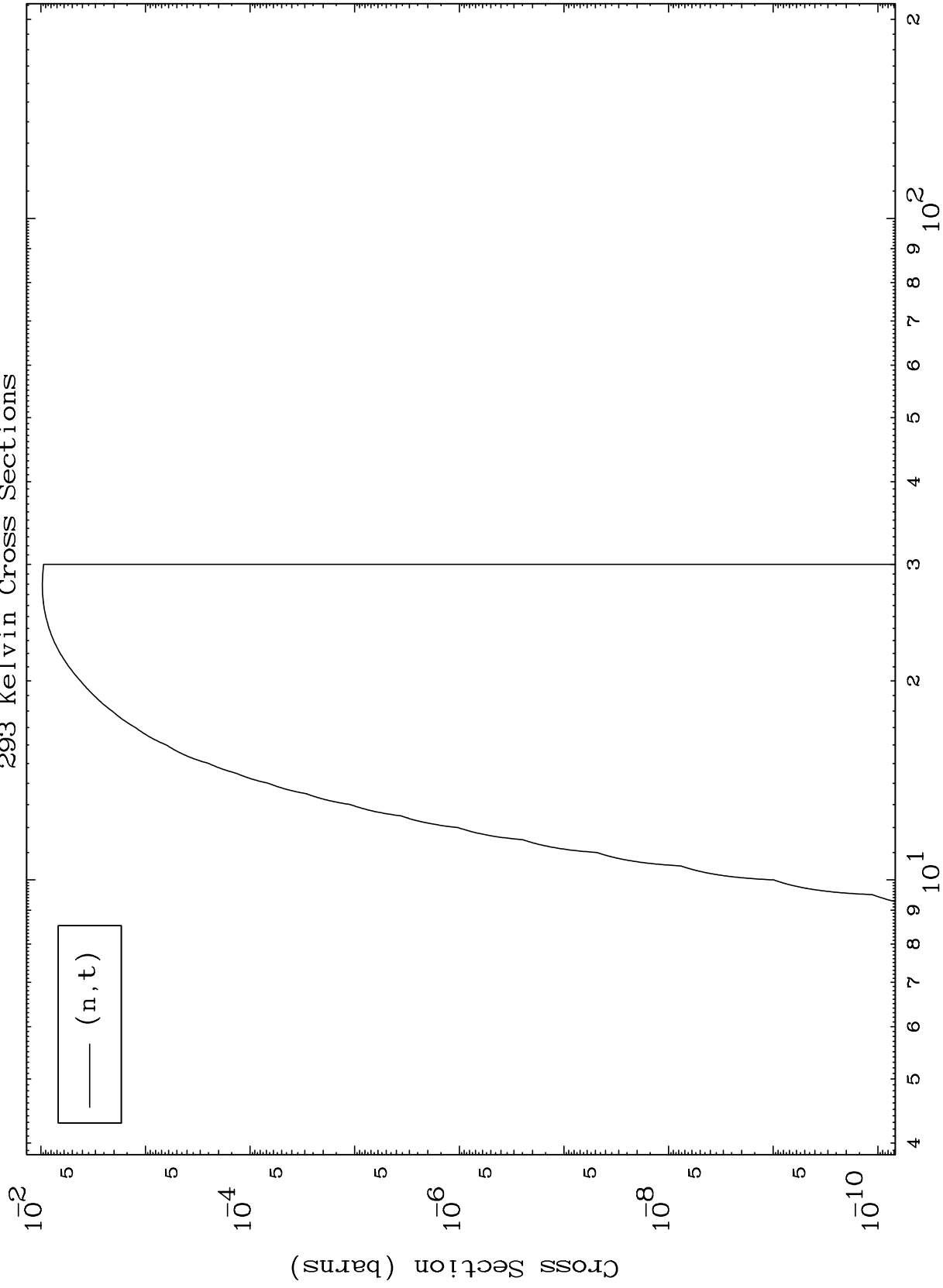
69-Tm-159



MAT 6895

(n,t) Levels
293 Kelvin Cross Sections

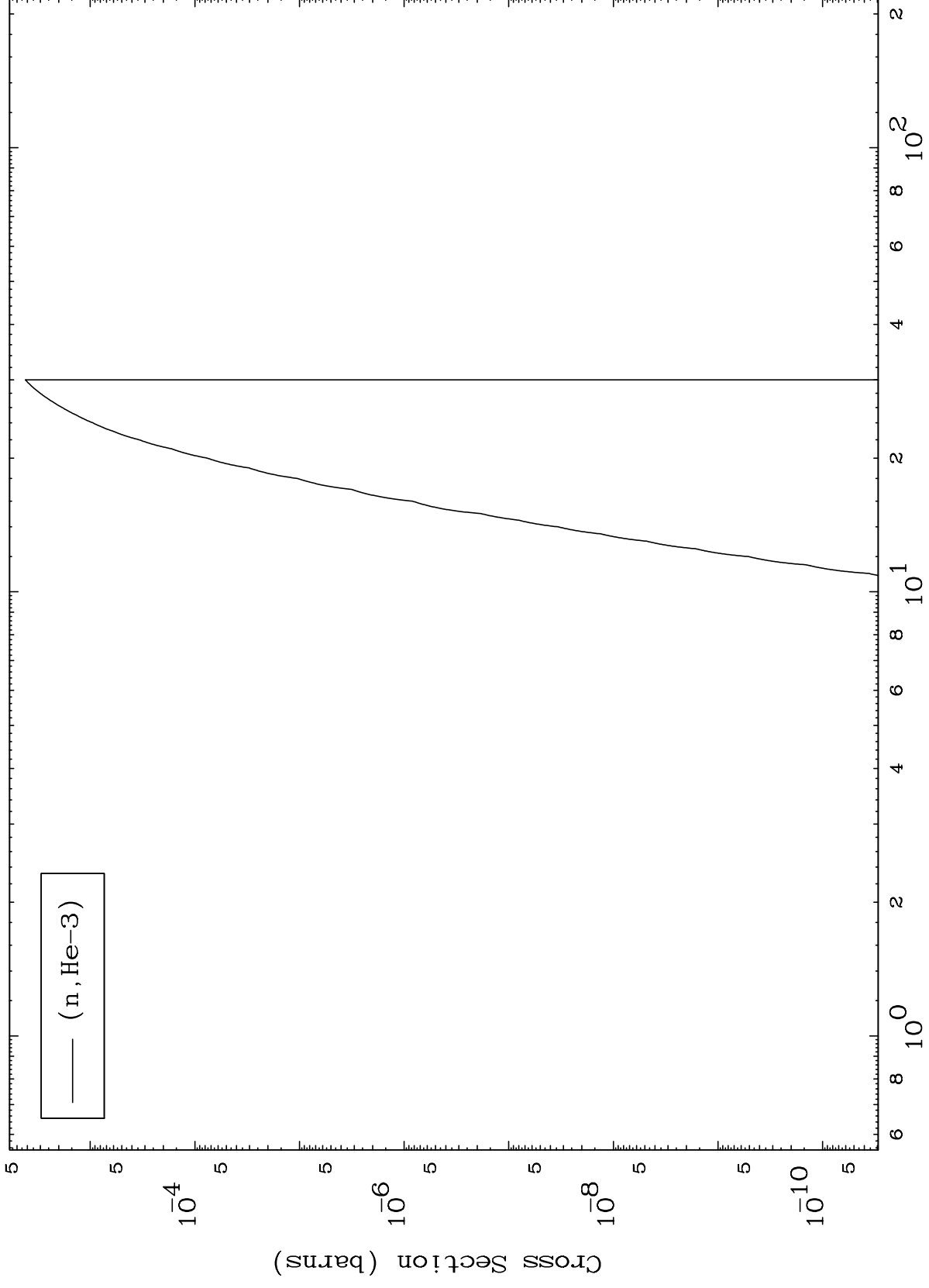
69-Tm-159



MAT 6895

(n,He3) Levels
293 Kelvin Cross Sections

69-Tm-159



13

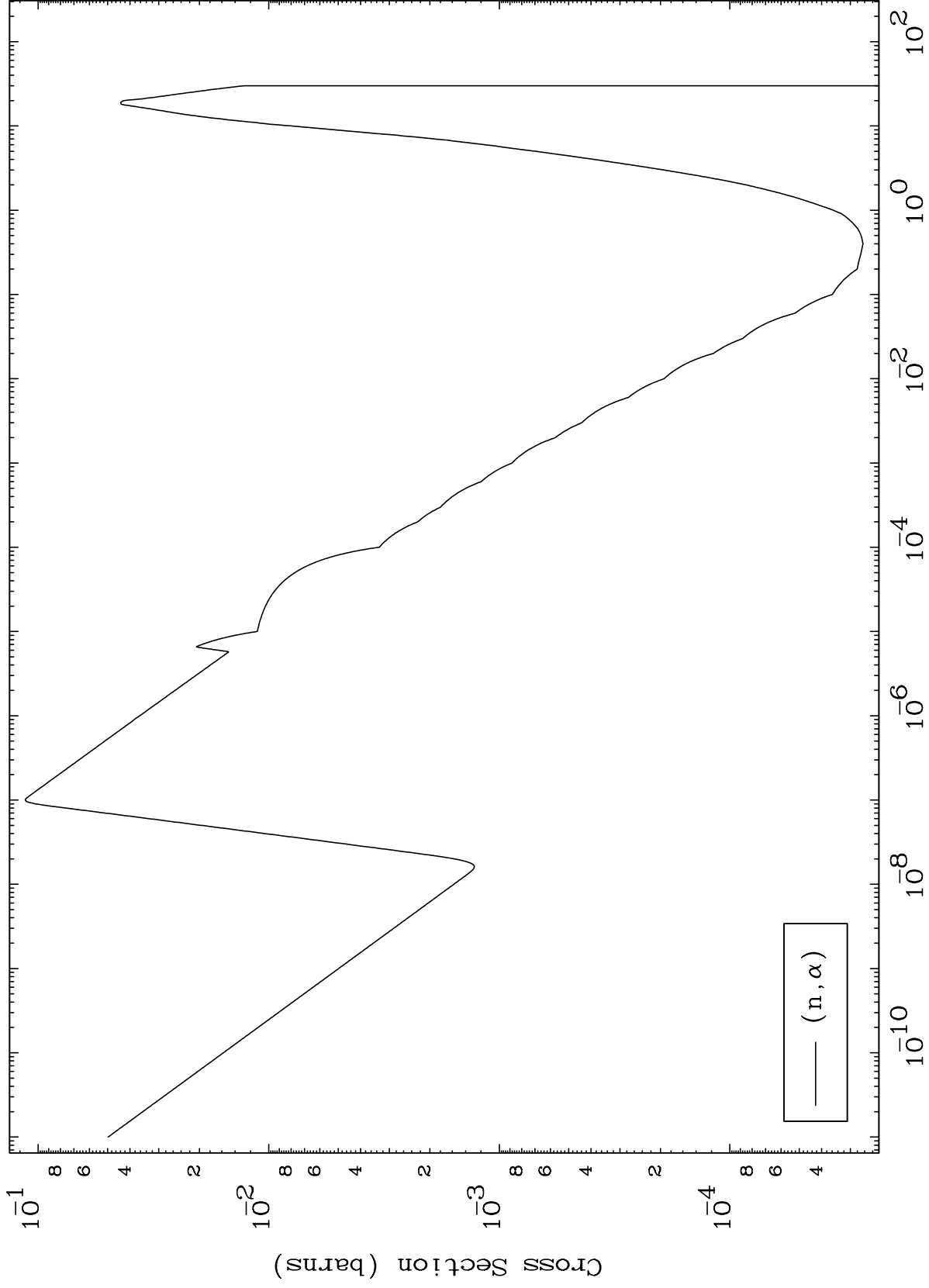
Incident Energy (MeV)

69-Tm-159

MAT 6895

(n, α) Levels
293 Kelvin Cross Sections

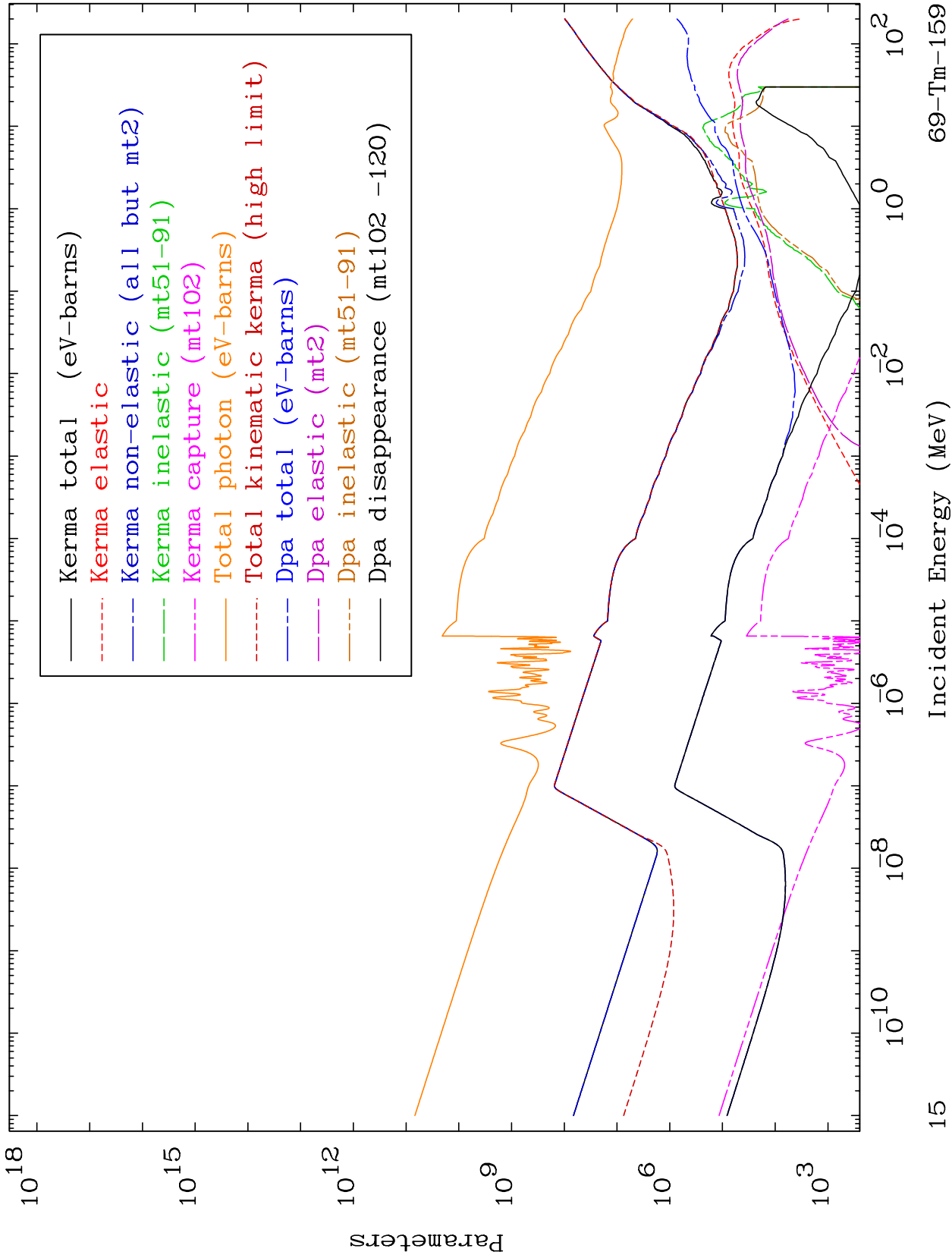
69-Tm-159

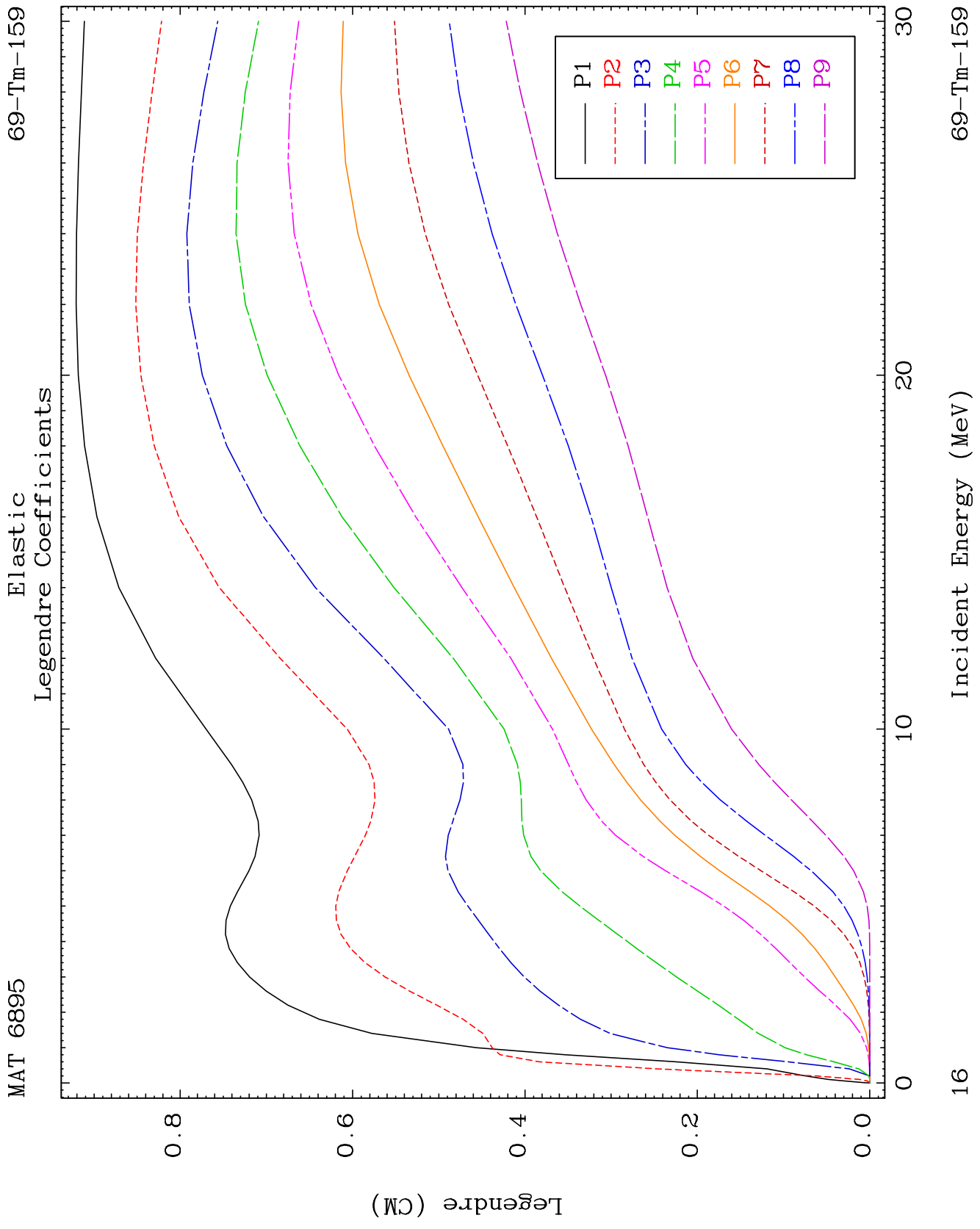


14

Incident Energy (MeV)

69-Tm-159





MAT 6895

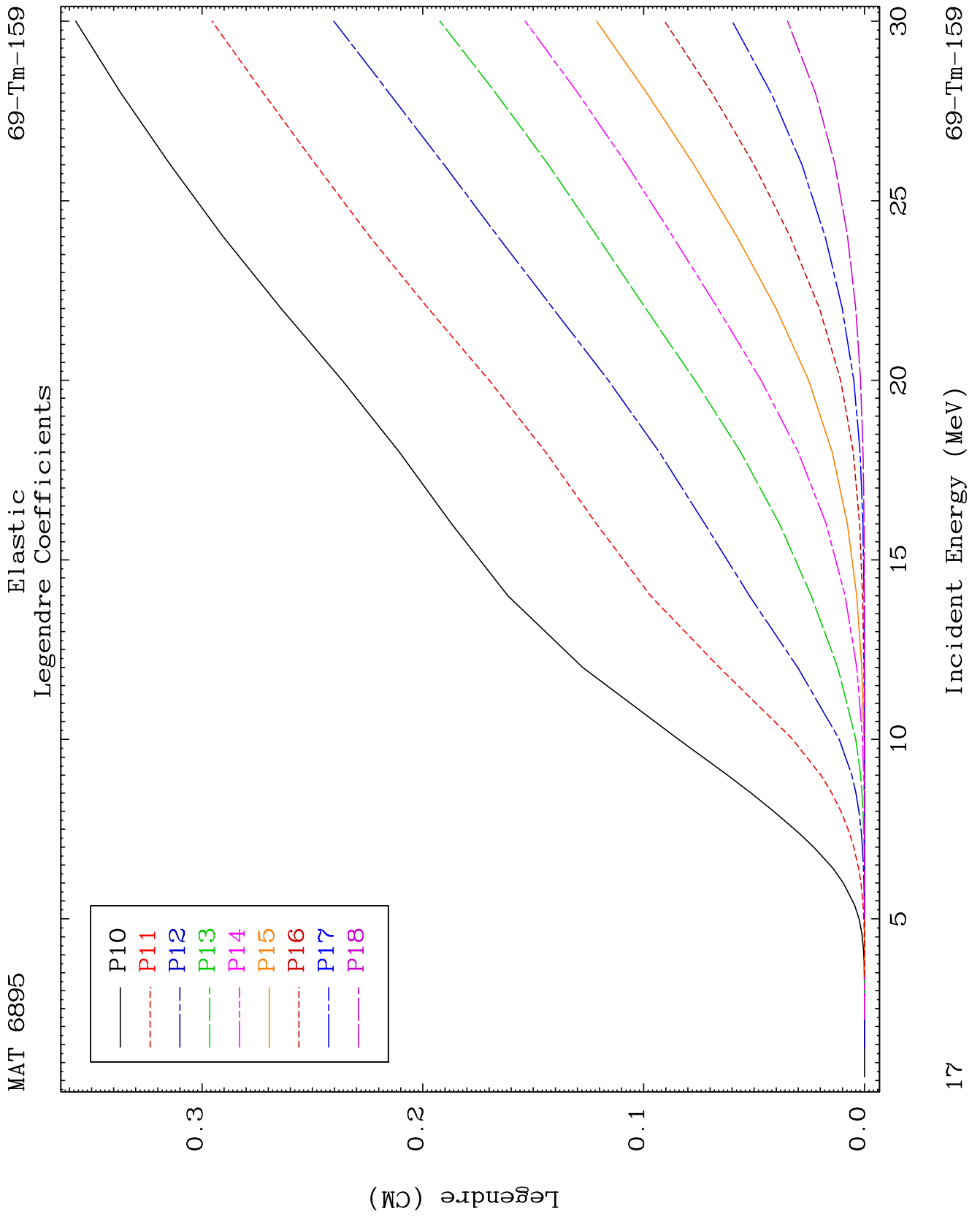
Elastic Legendre Coefficients

$^{69}\text{Tm}-^{159}\text{Sm}$

16

Incident Energy (MeV)

$^{69}\text{Tm}-^{159}\text{Sm}$



MAT 6895

69-Tm-159

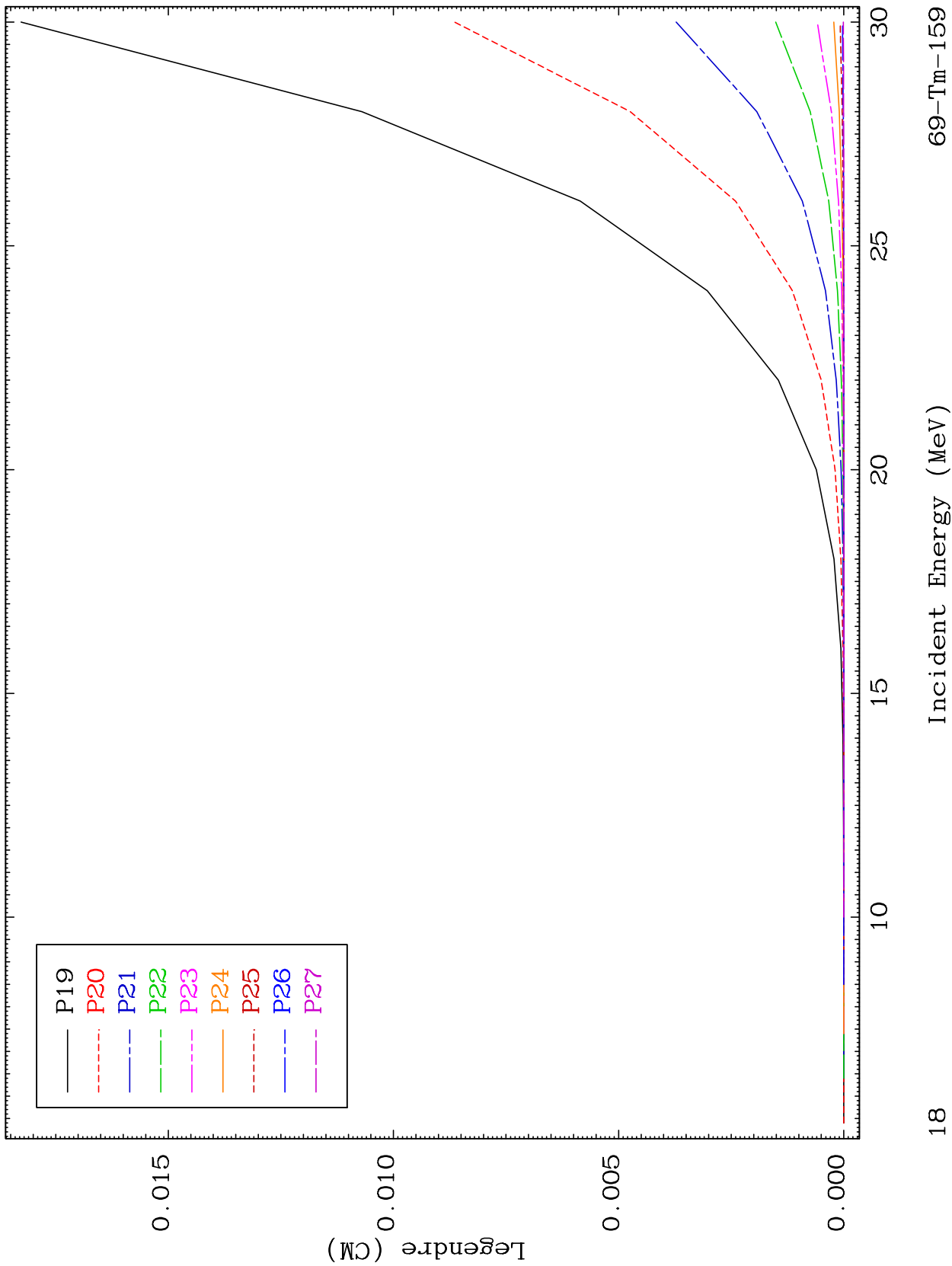
17

69-Tm-159

MAT 6895

Elastic Legendre Coefficients

69-Tm-159



18

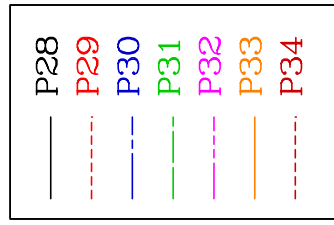
Incident Energy (MeV)

69-Tm-159

MAT 6895

Elastic Legendre Coefficients

69-Tm-159



$\times 10^{-6}$

Legendre (CM)

2

1

0

15

20

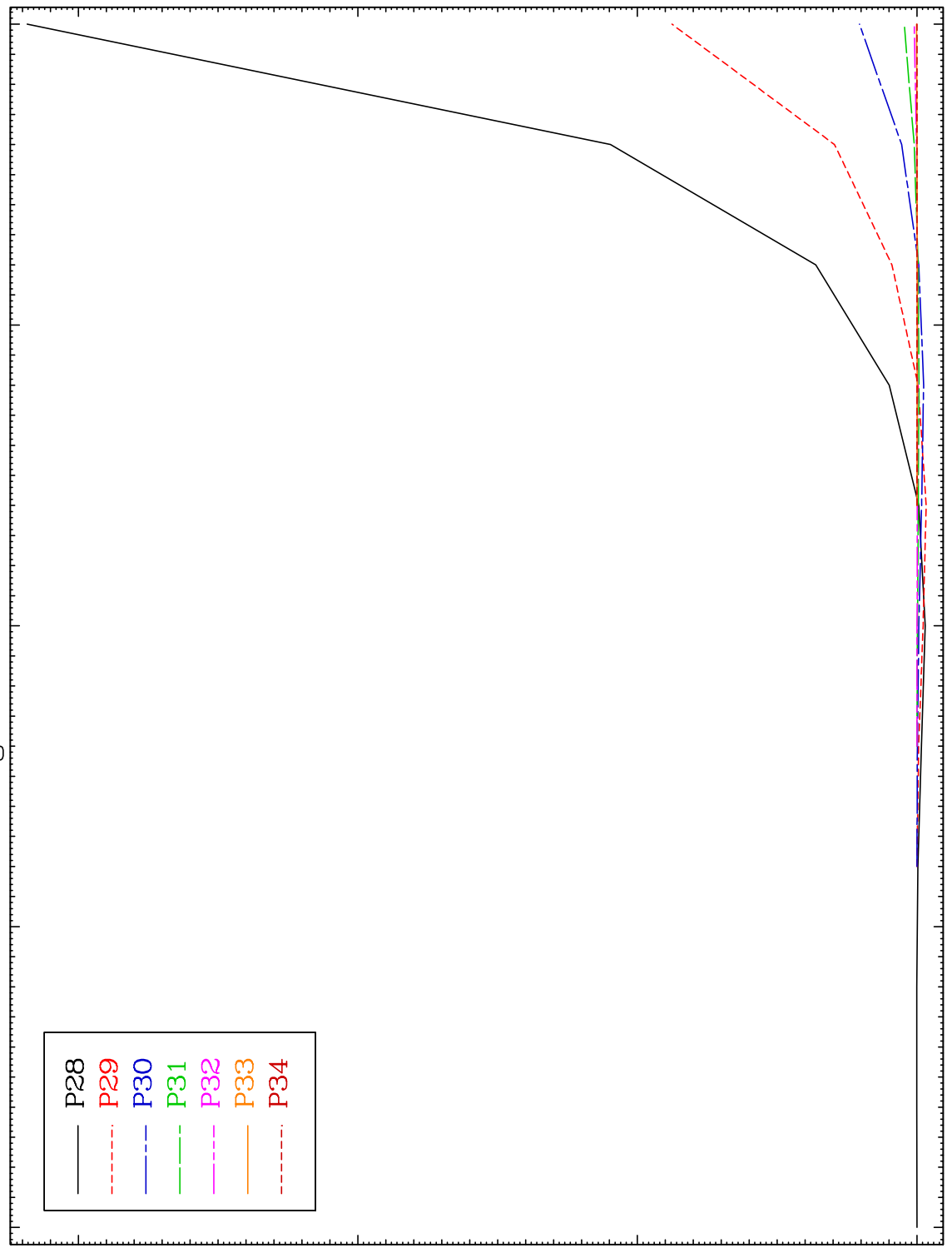
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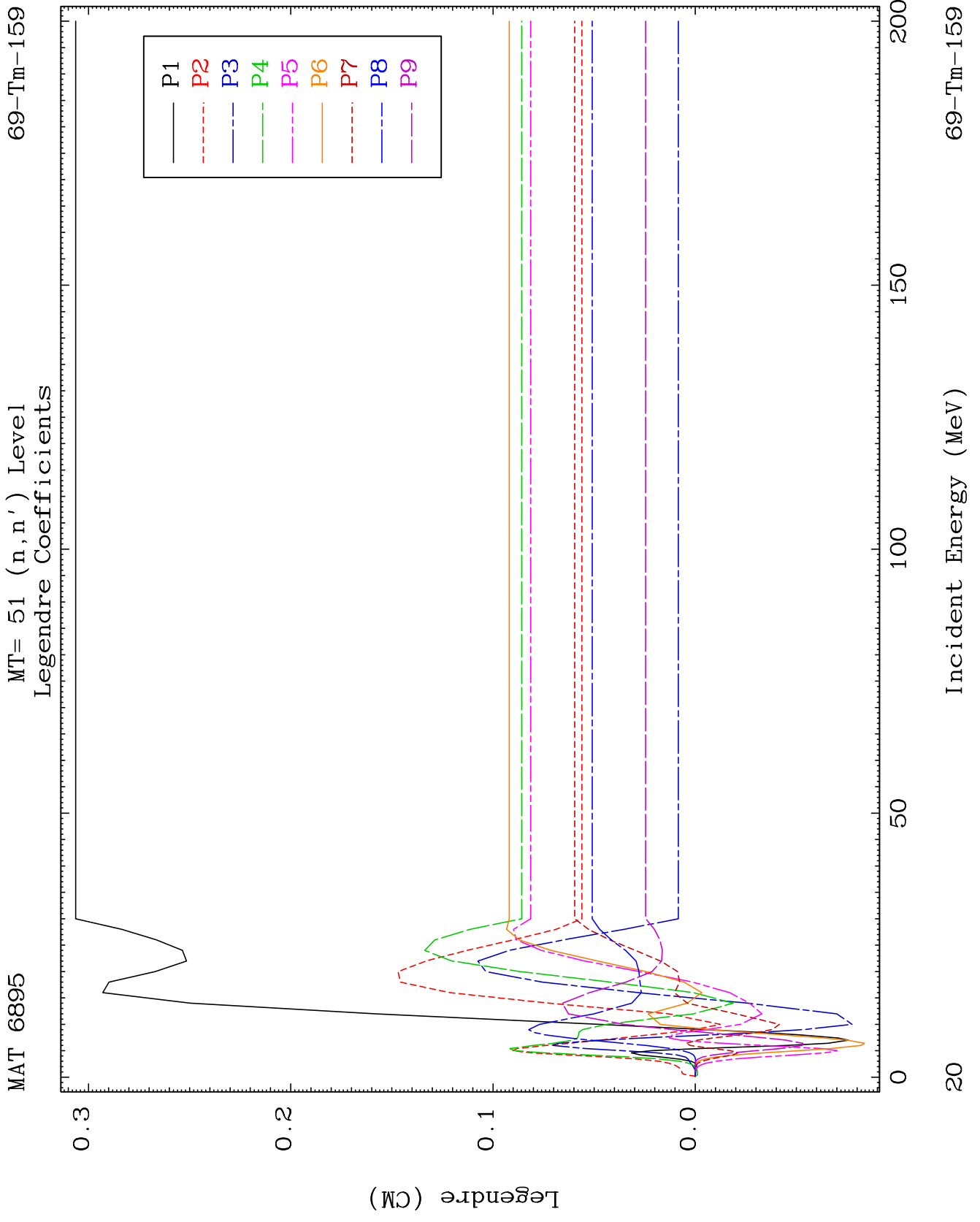
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19

Incident Energy (MeV)

69-Tm-159

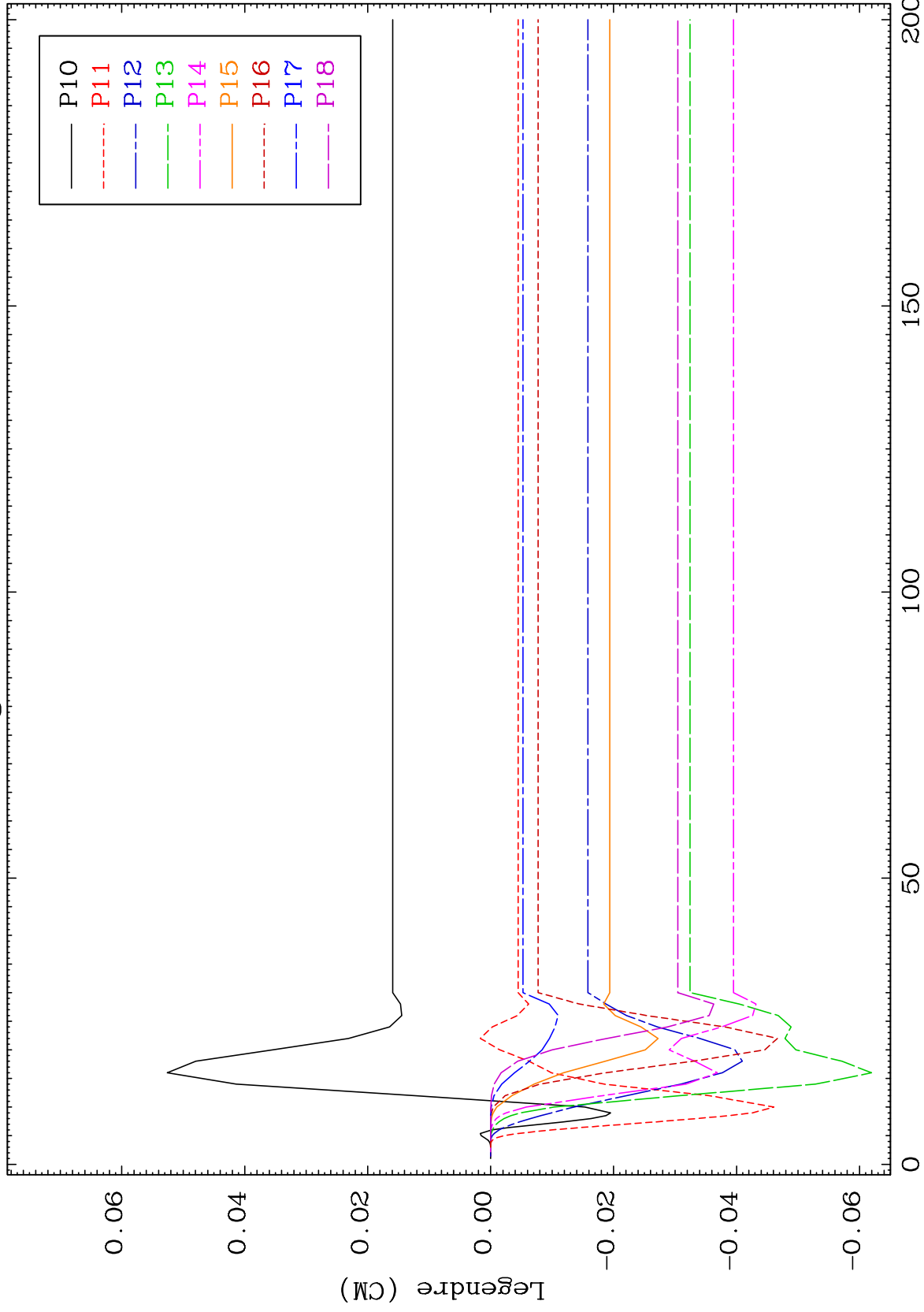




MAT 6895

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

69-Tm-159



69-Tm-159

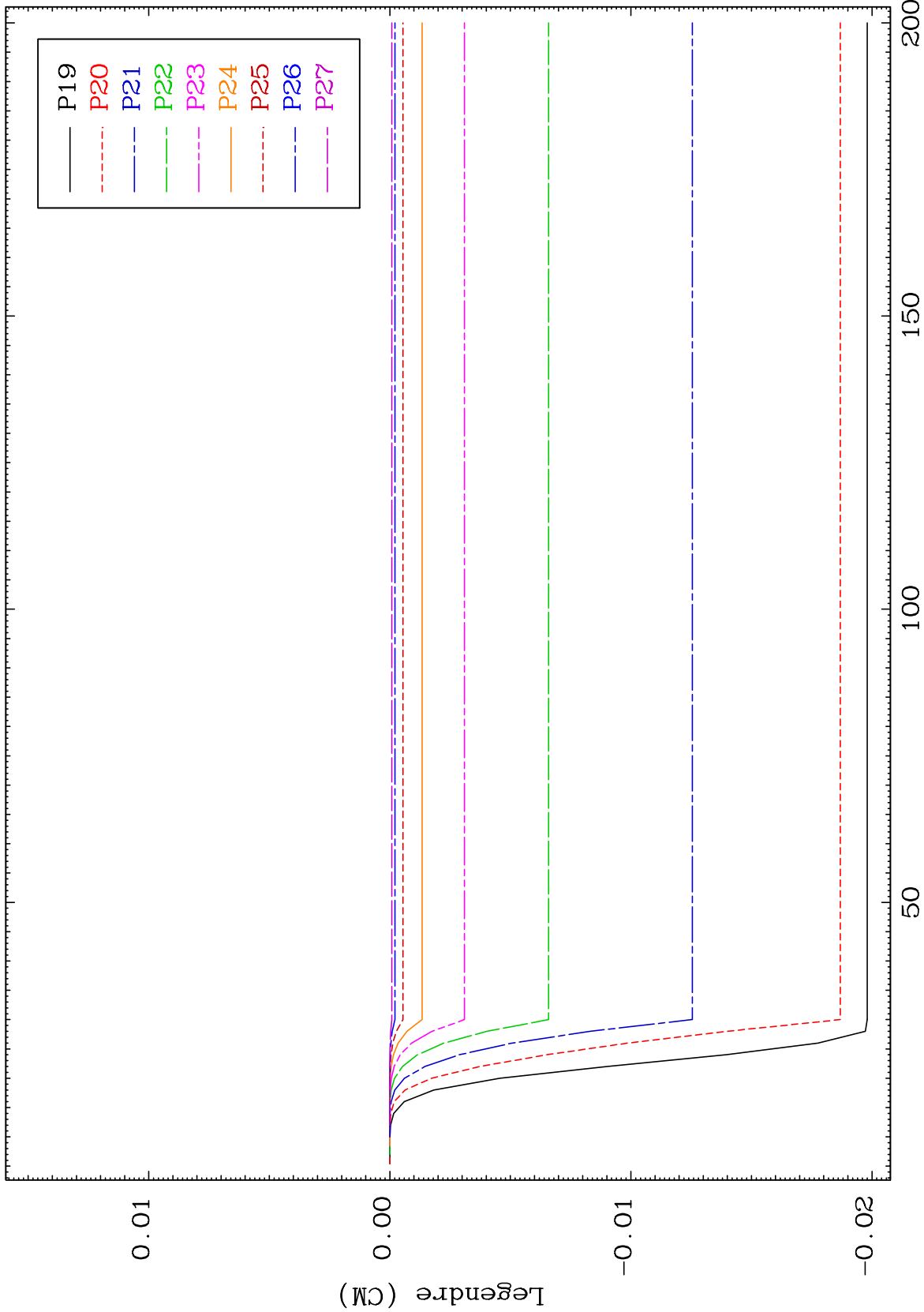
Incident Energy (MeV)

21

MAT 6895

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

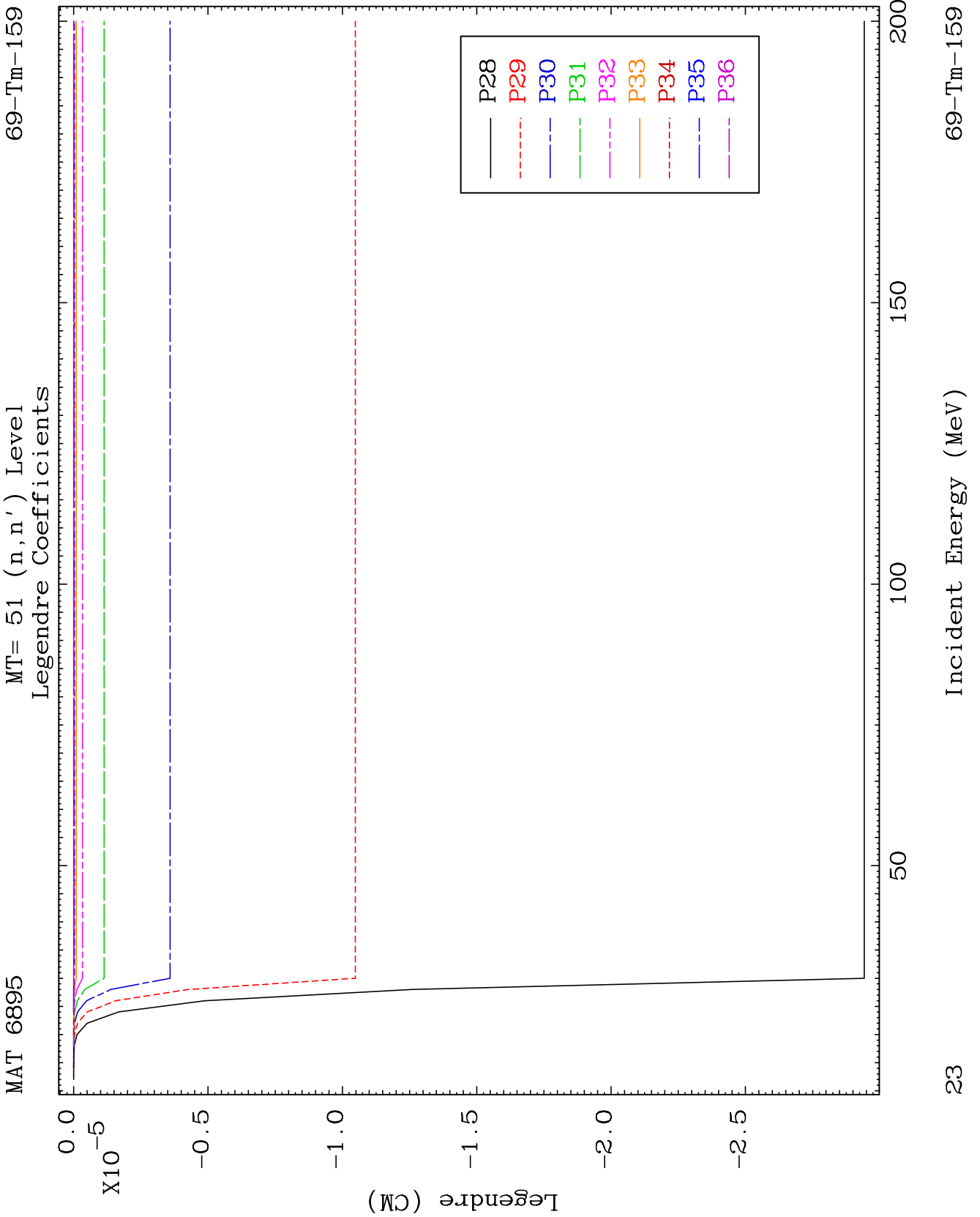
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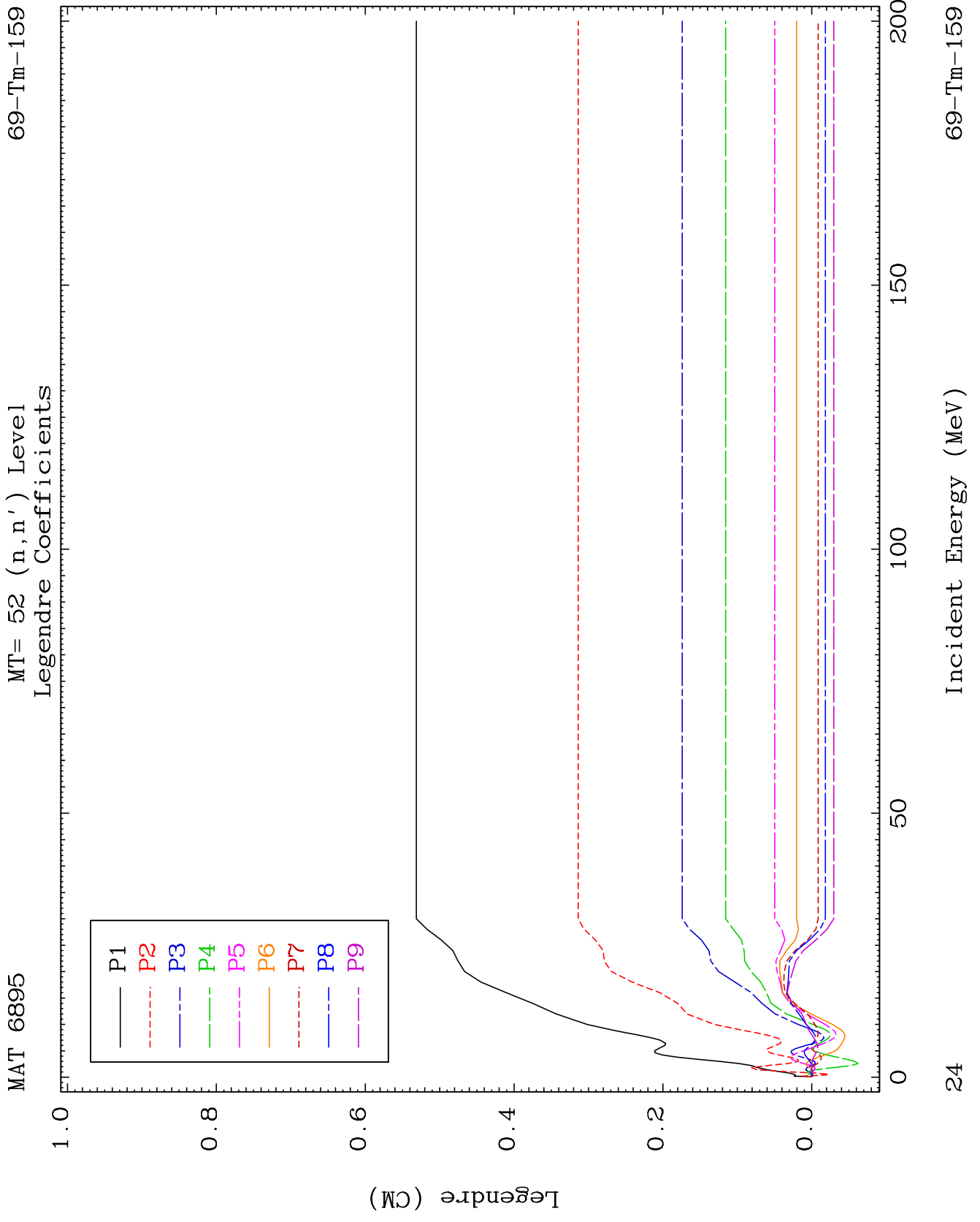


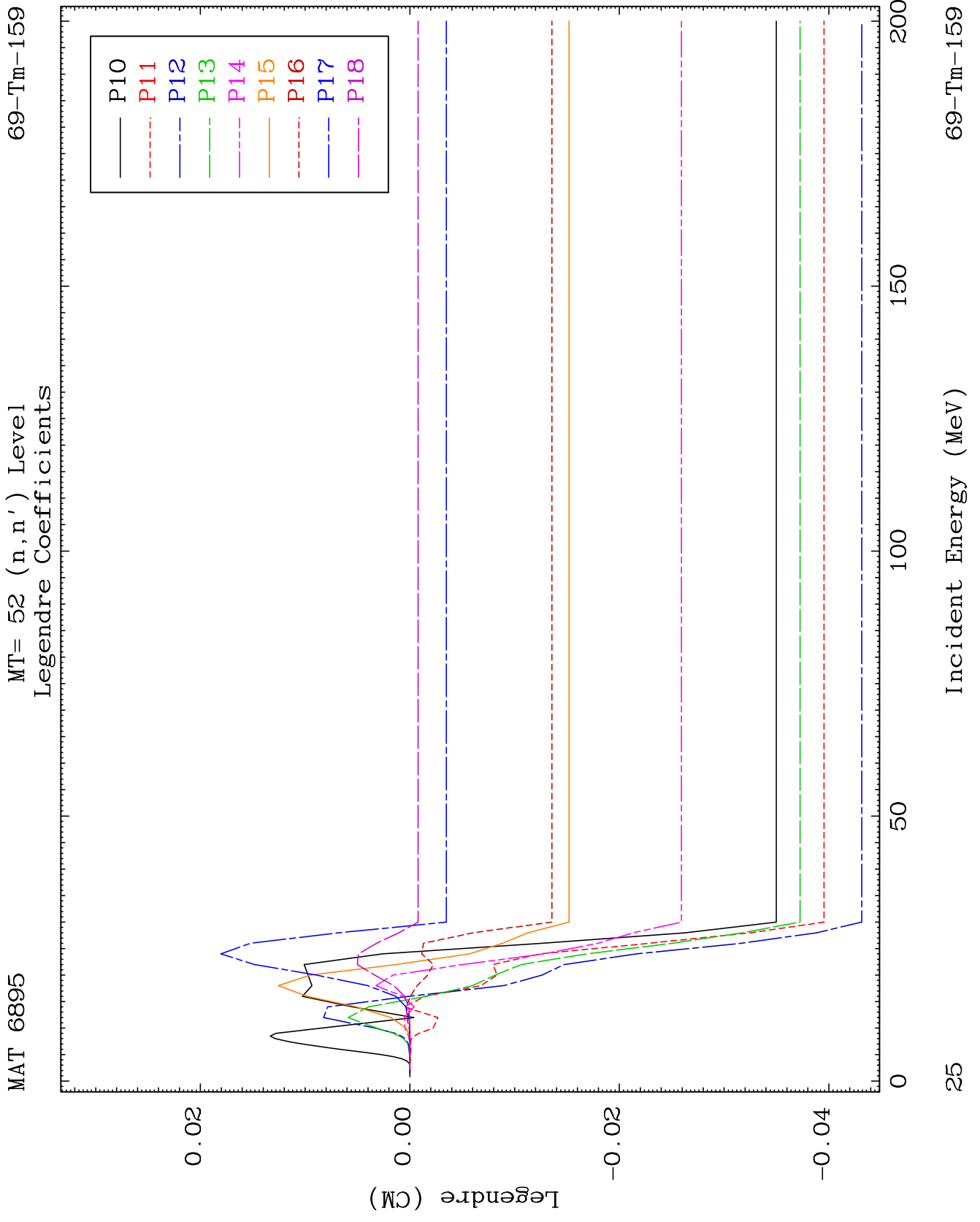
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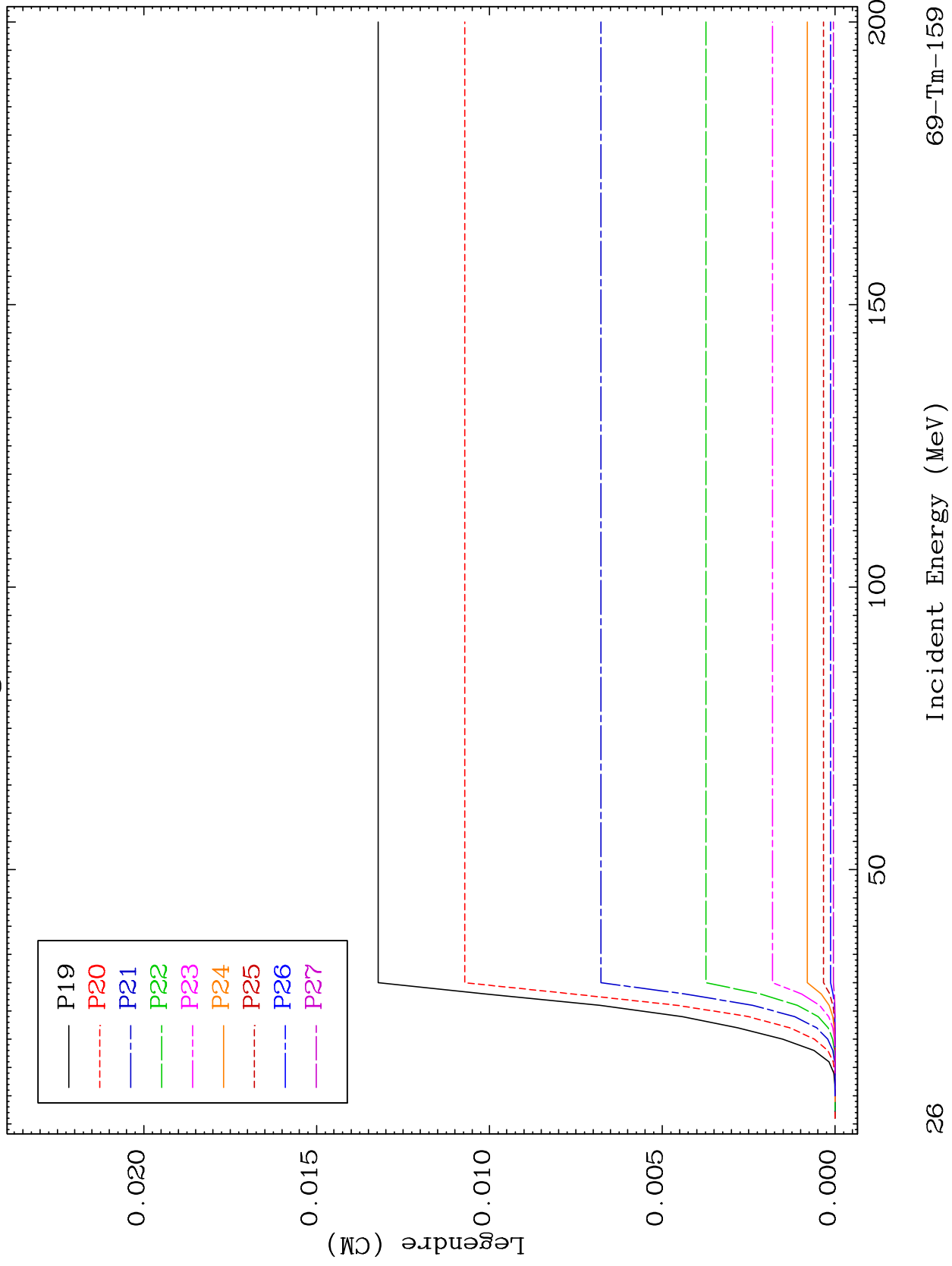
Incident Energy (MeV)

69-Tm-159





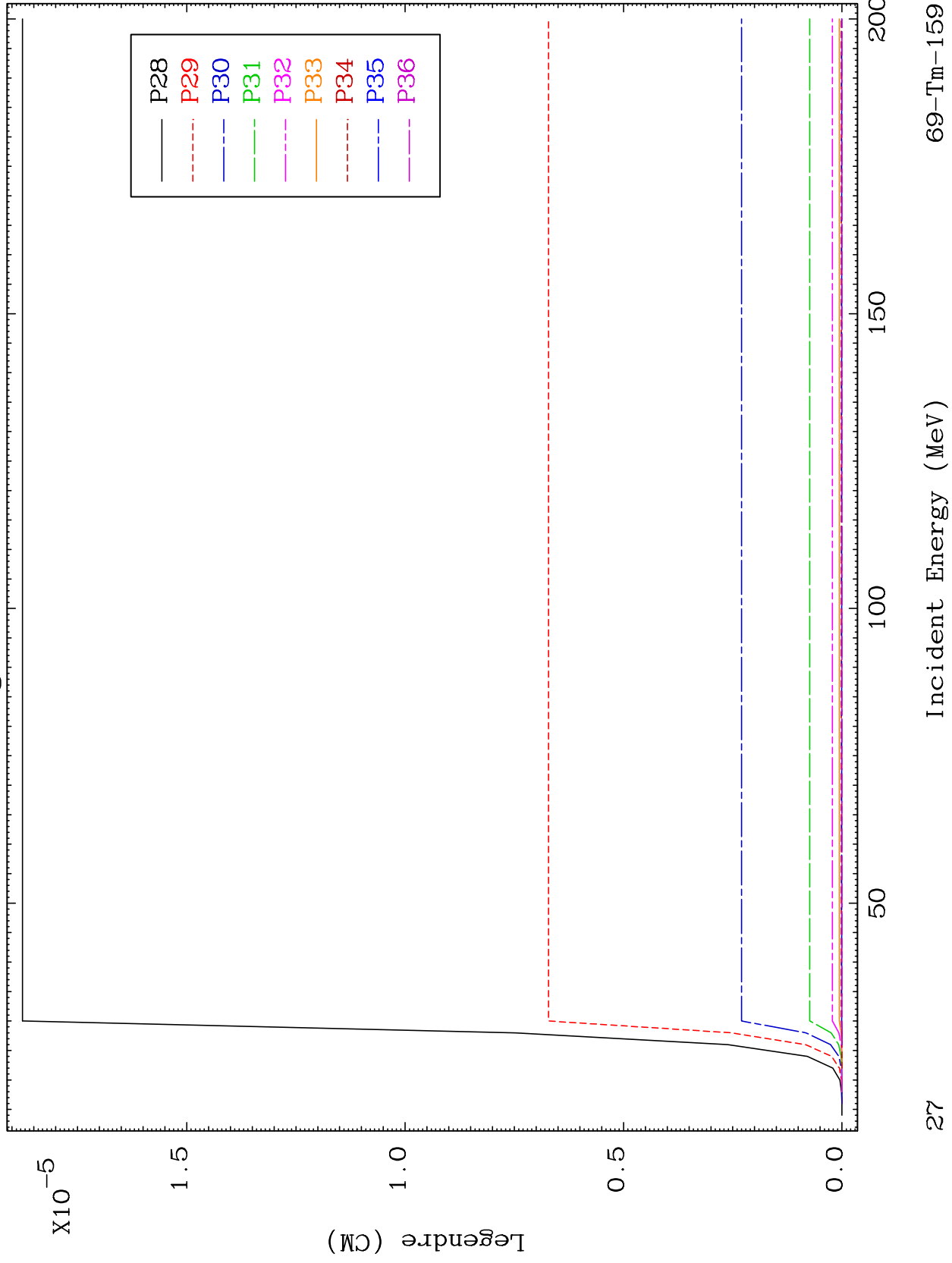


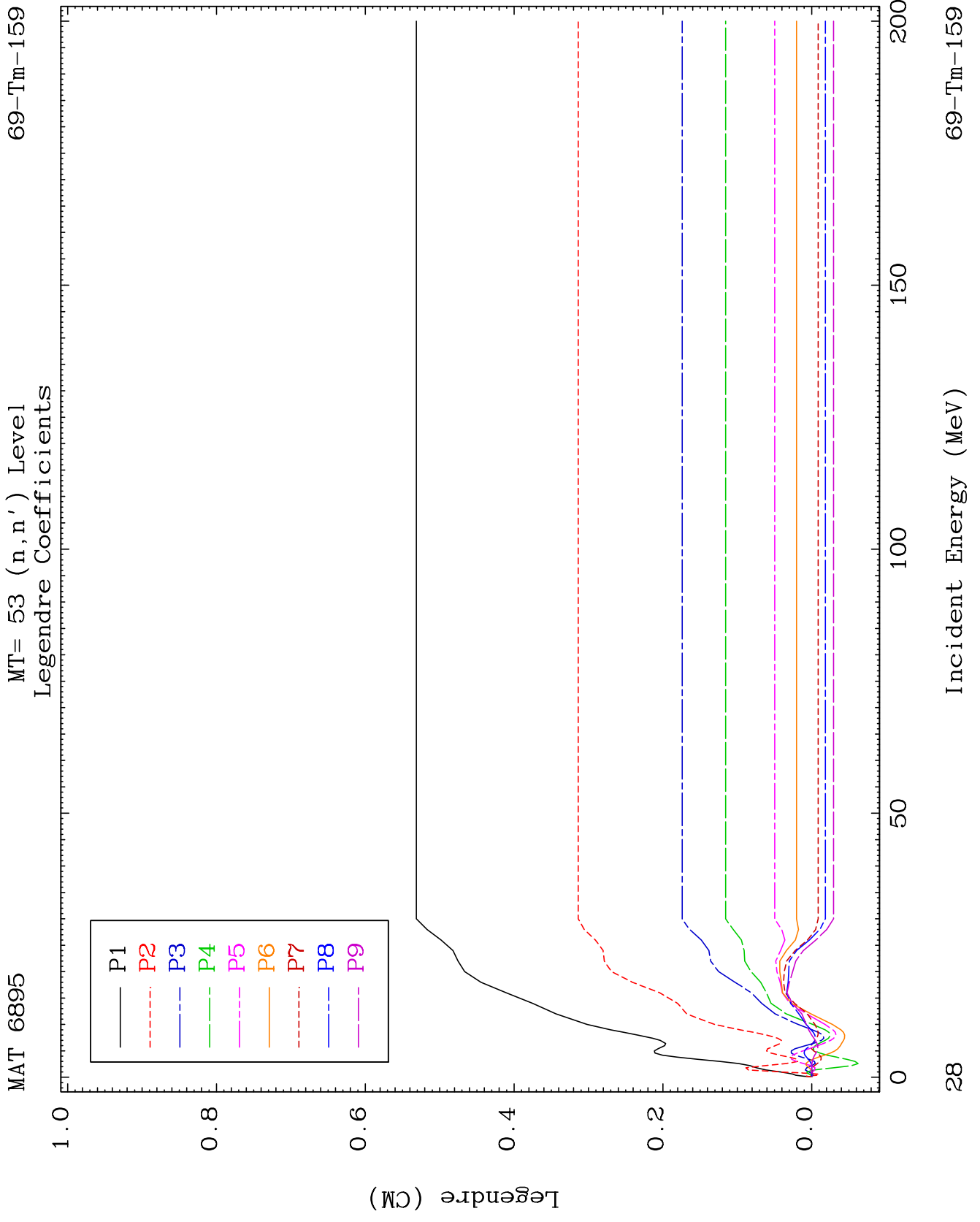


MAT 6895

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

69-Tm-159

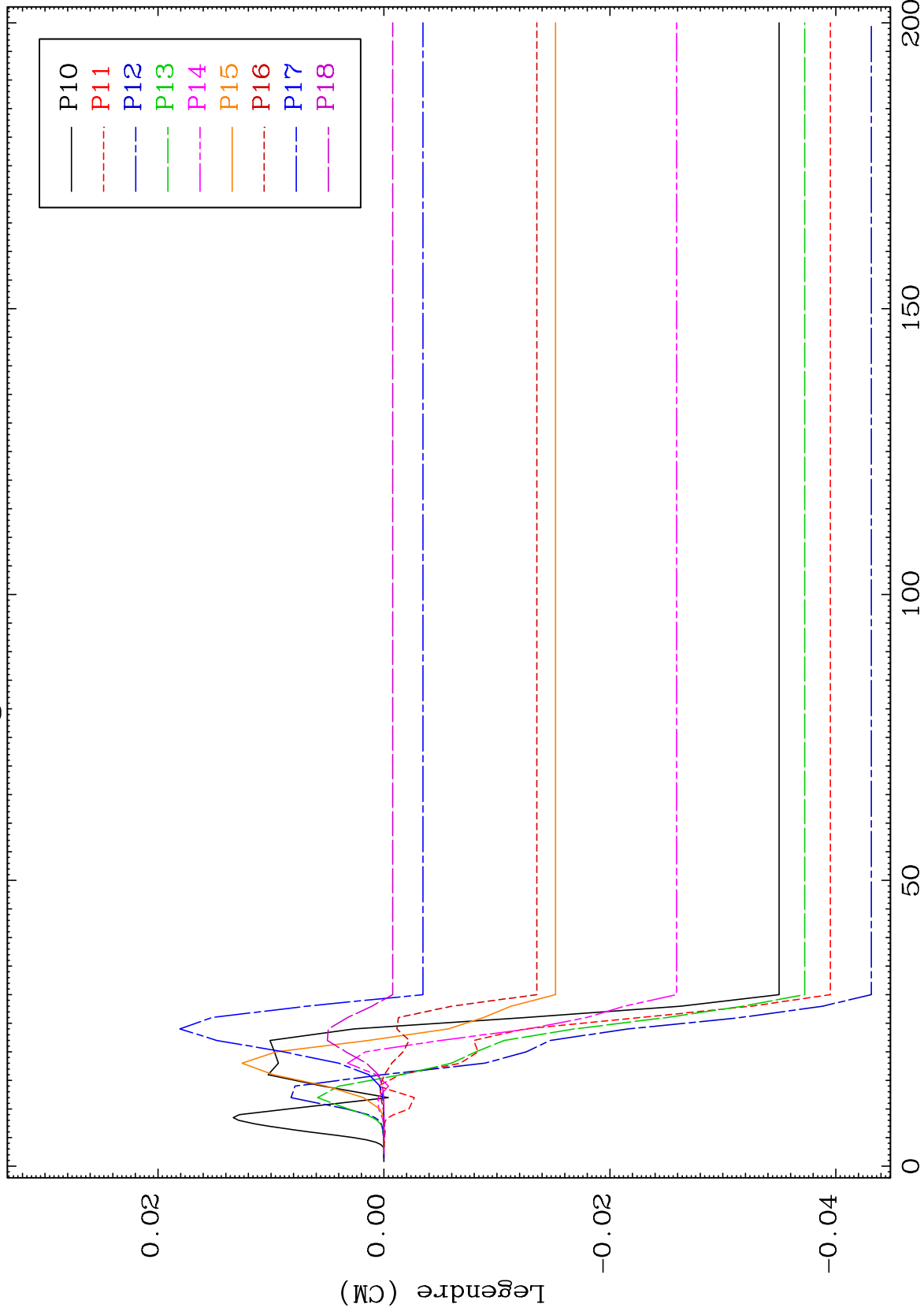




MAT 6895

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

69-Tm-159



29

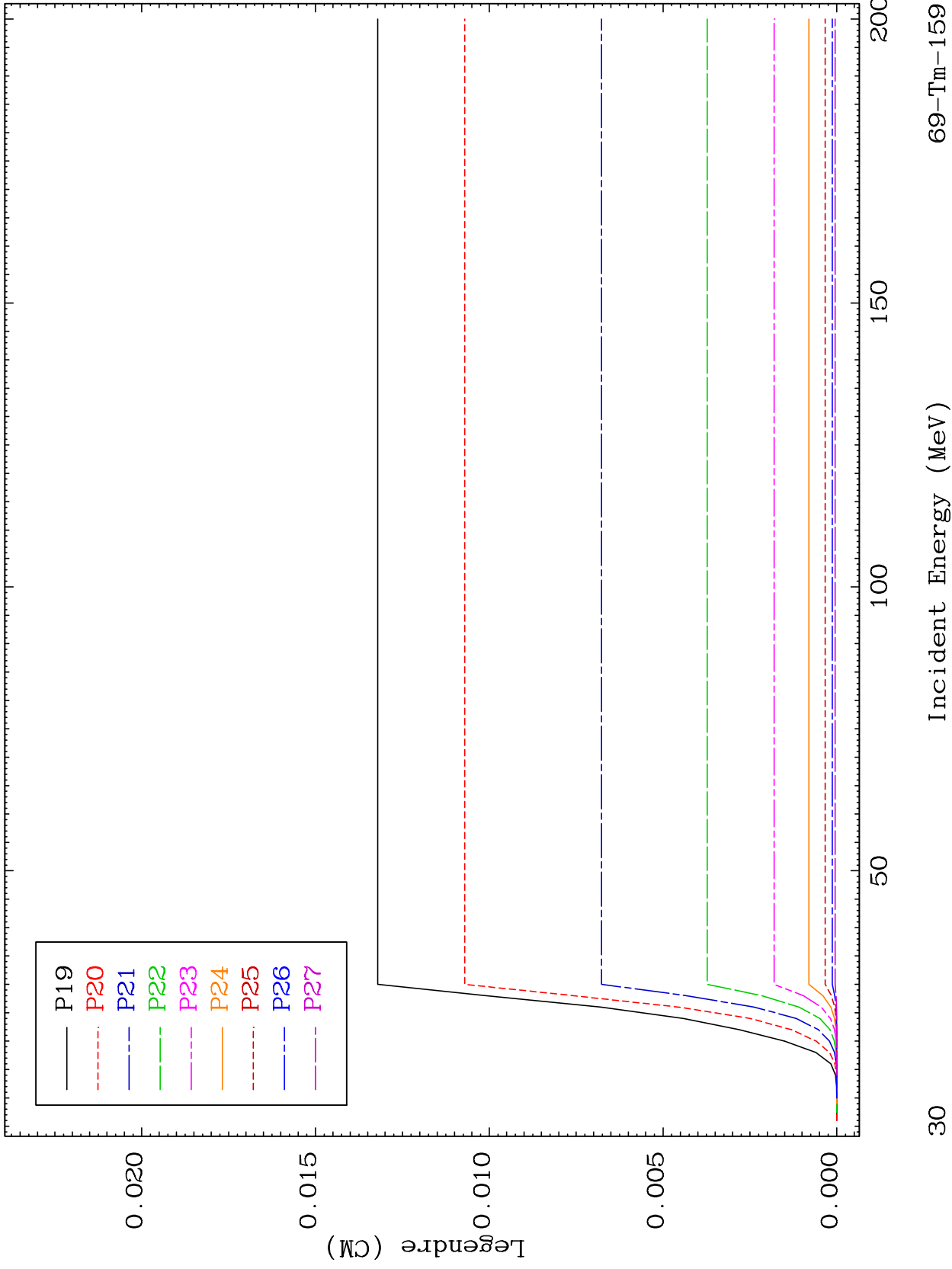
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



30

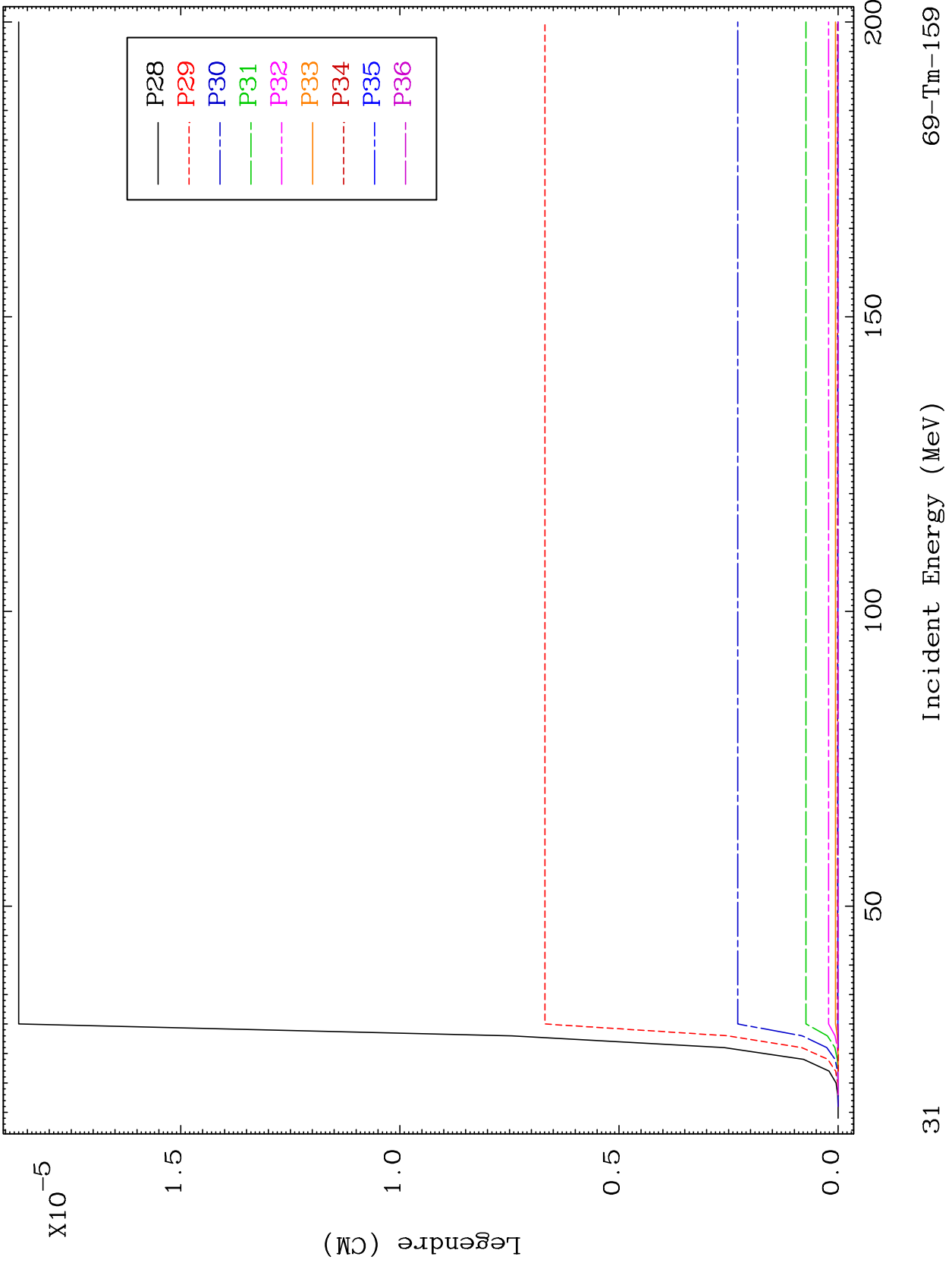
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

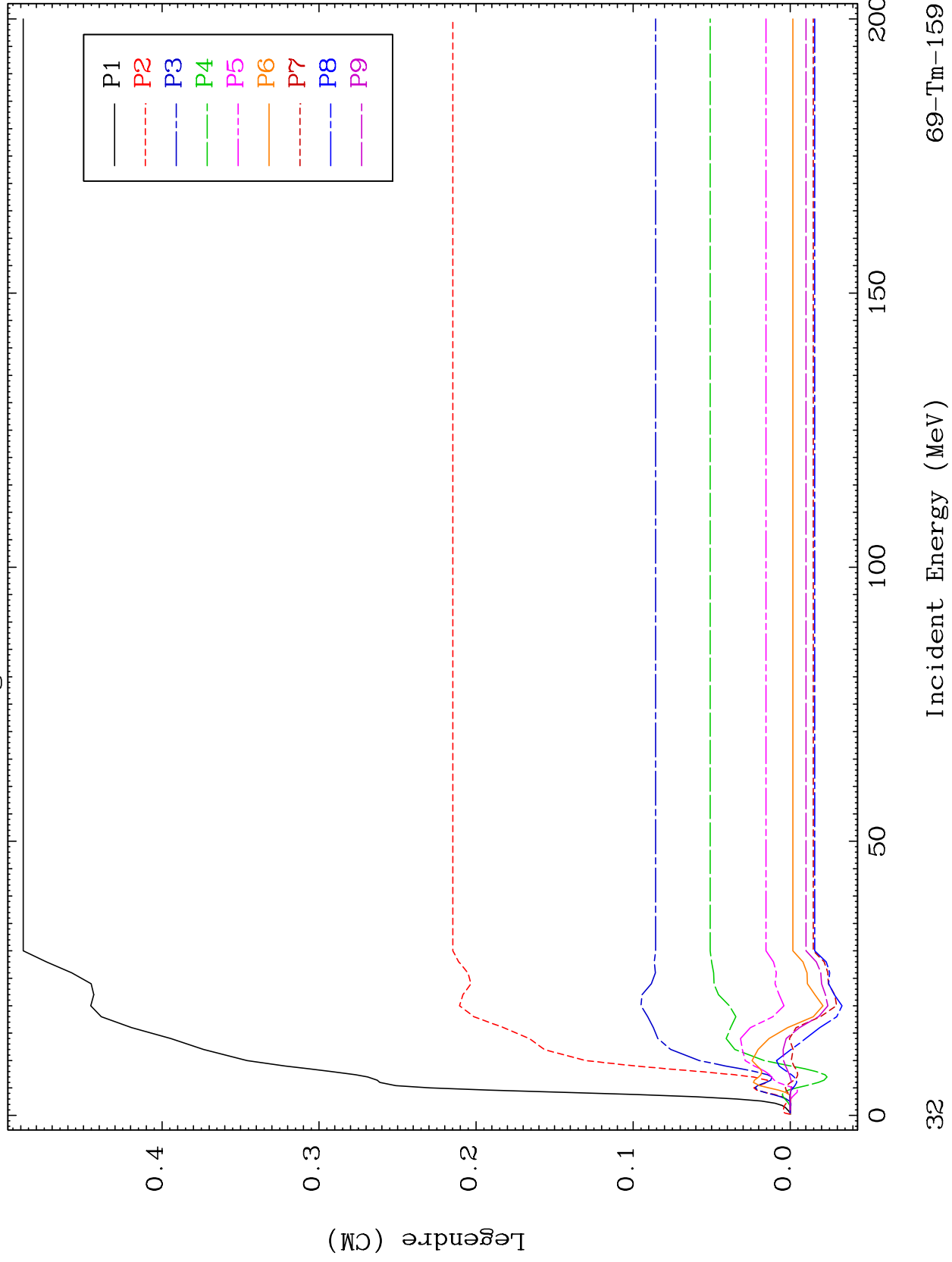
69-Tm-159



MAT 6895

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

69-Tm-159



69-Tm-159

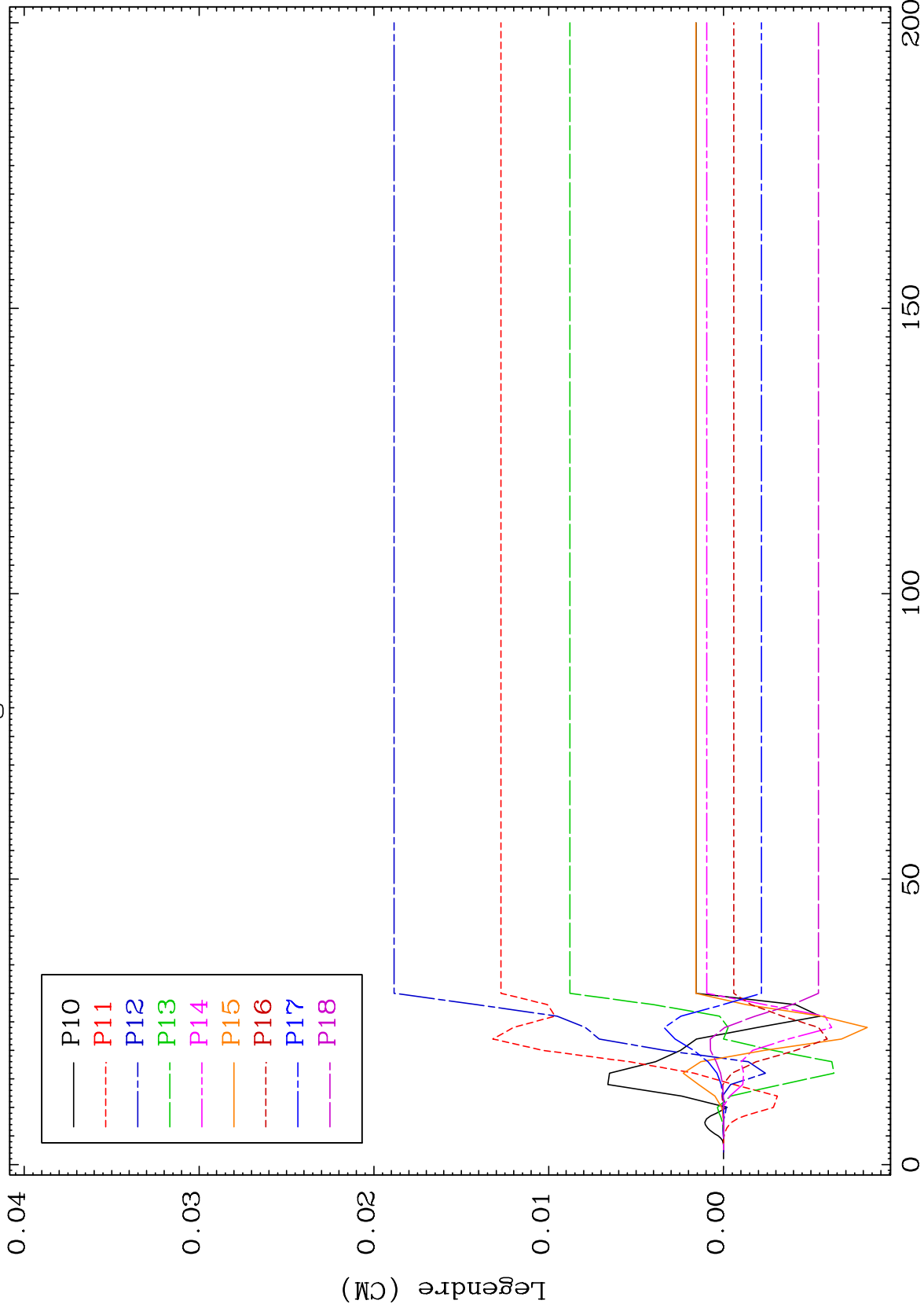
Incident Energy (MeV)

32

MAT 6895

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

69-Tm-159



33

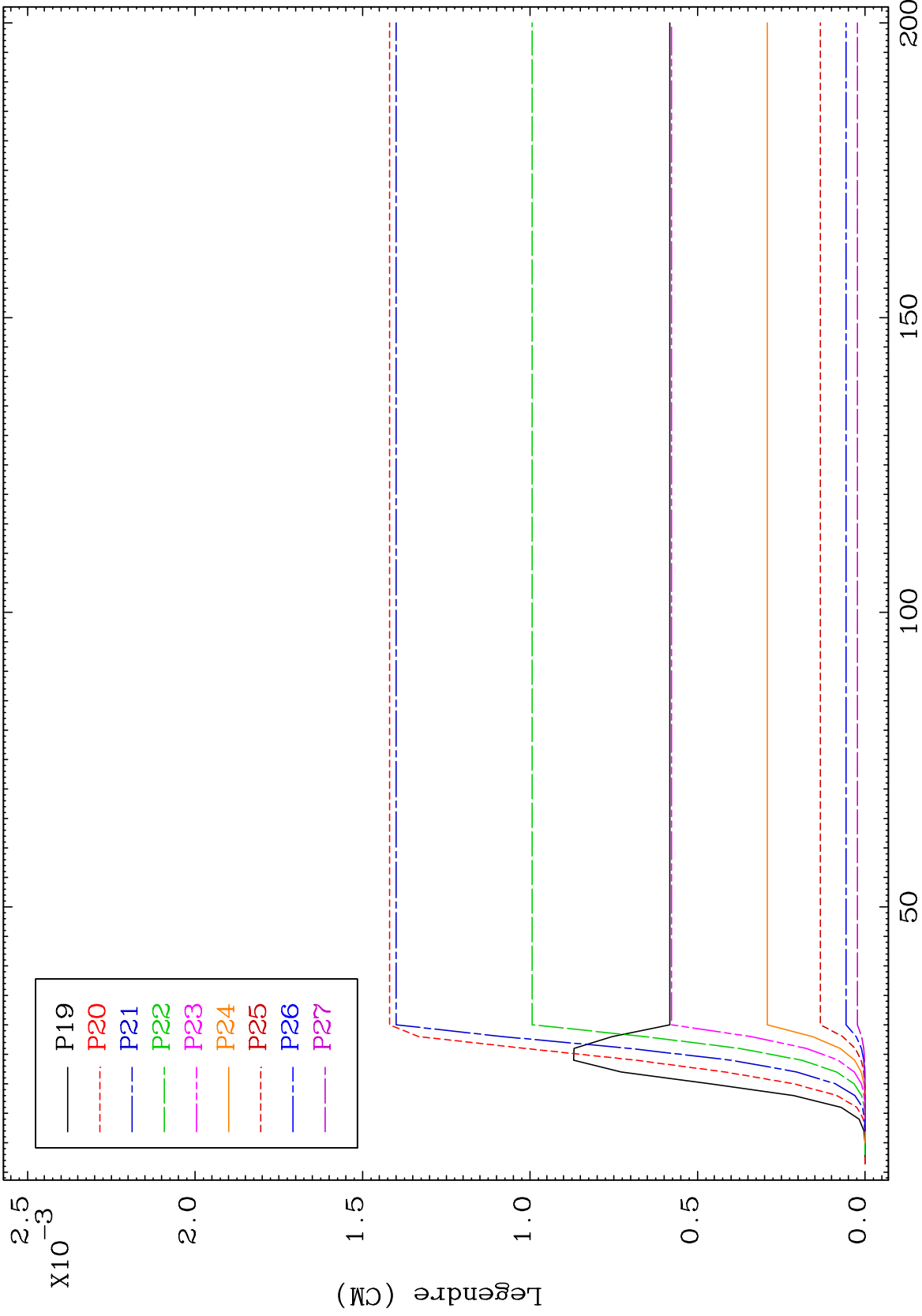
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



34

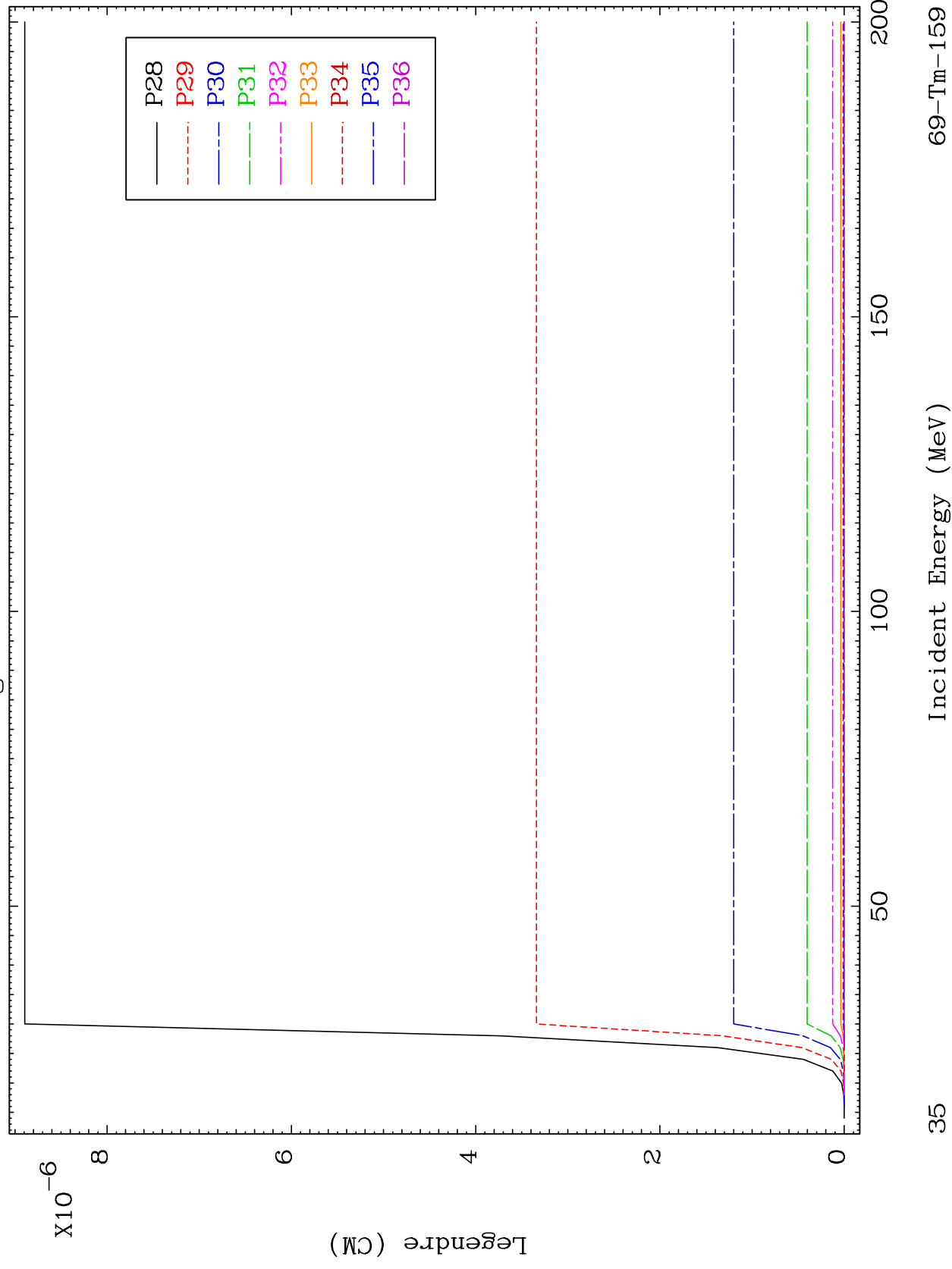
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



35

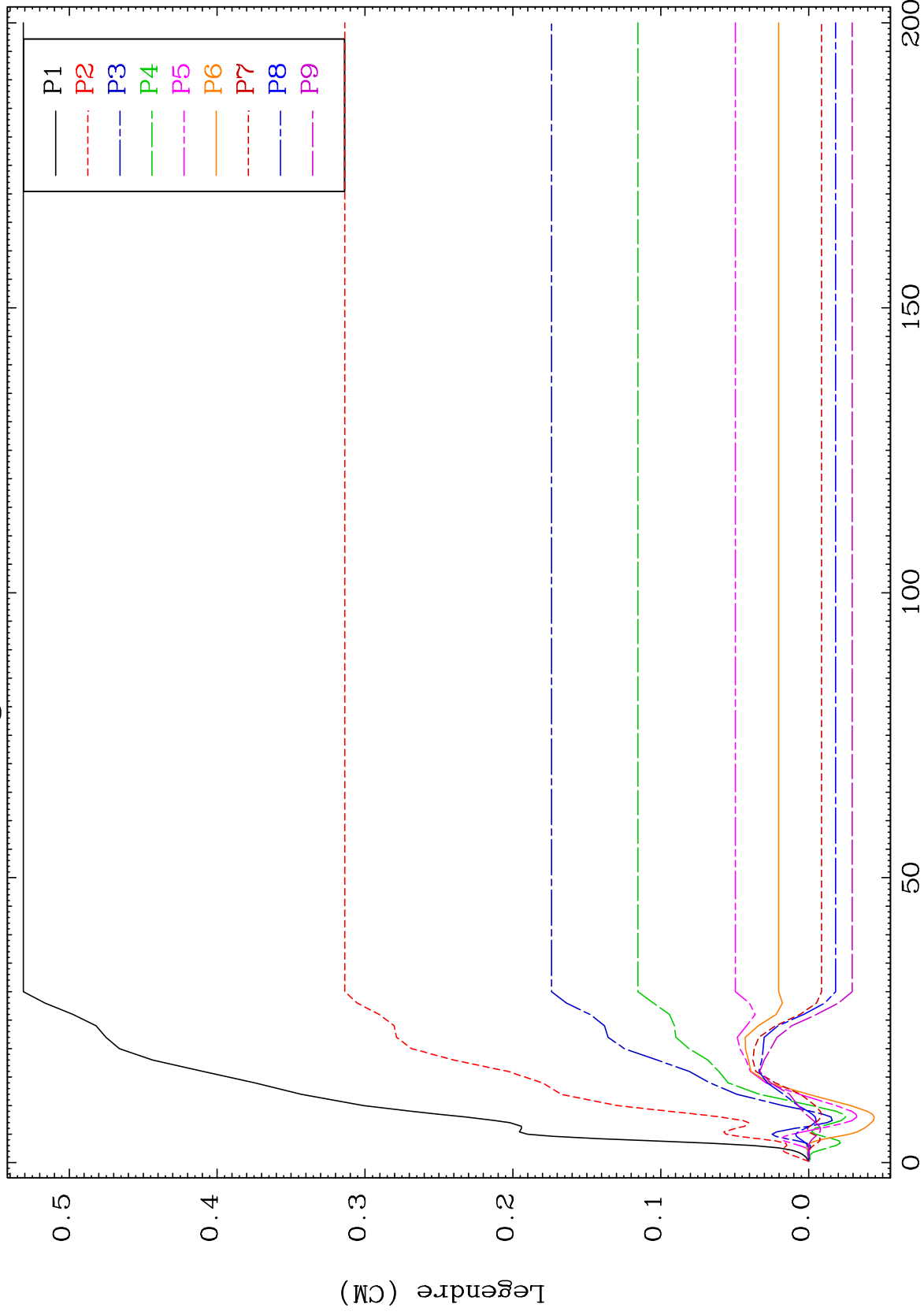
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



36

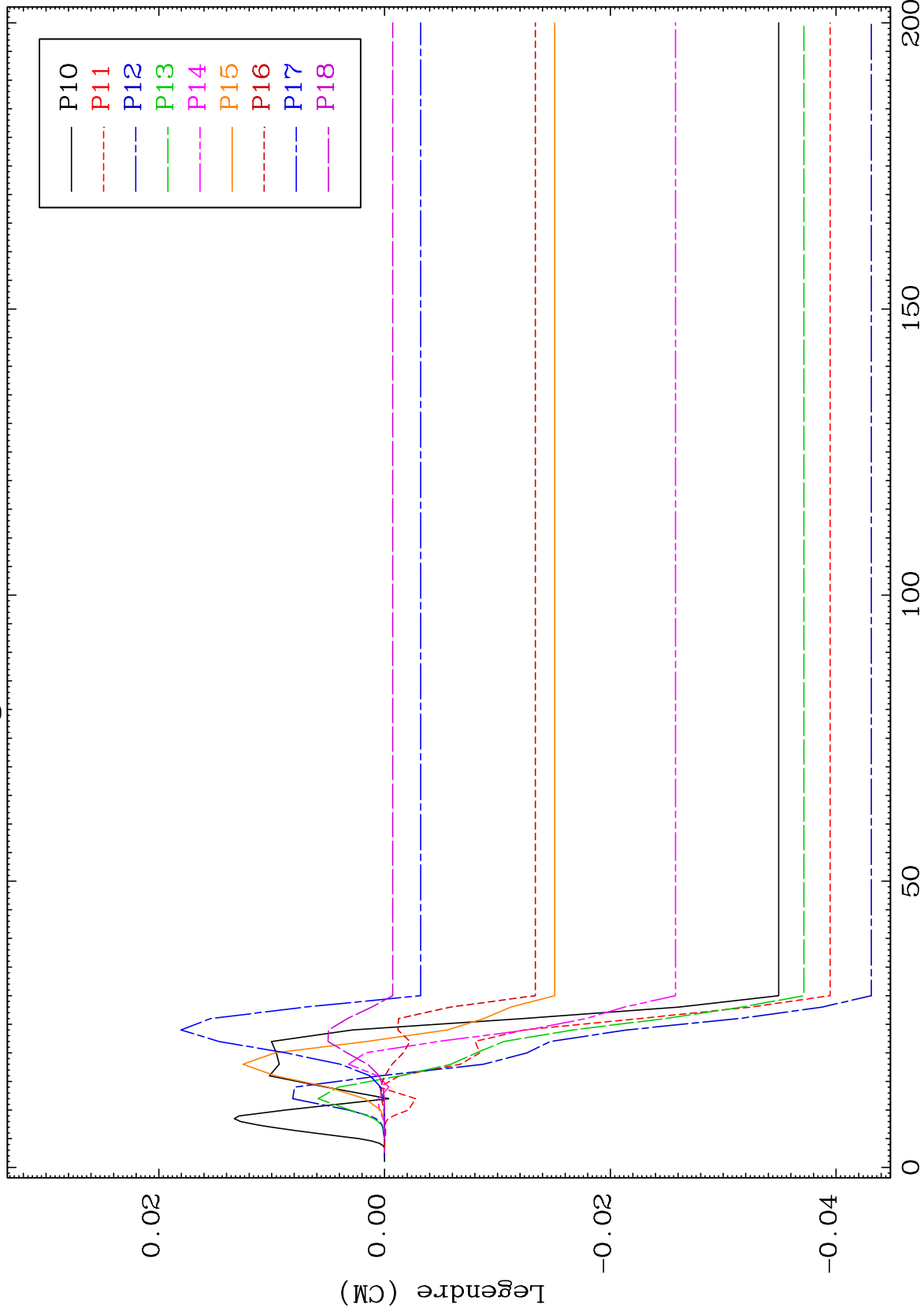
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



37

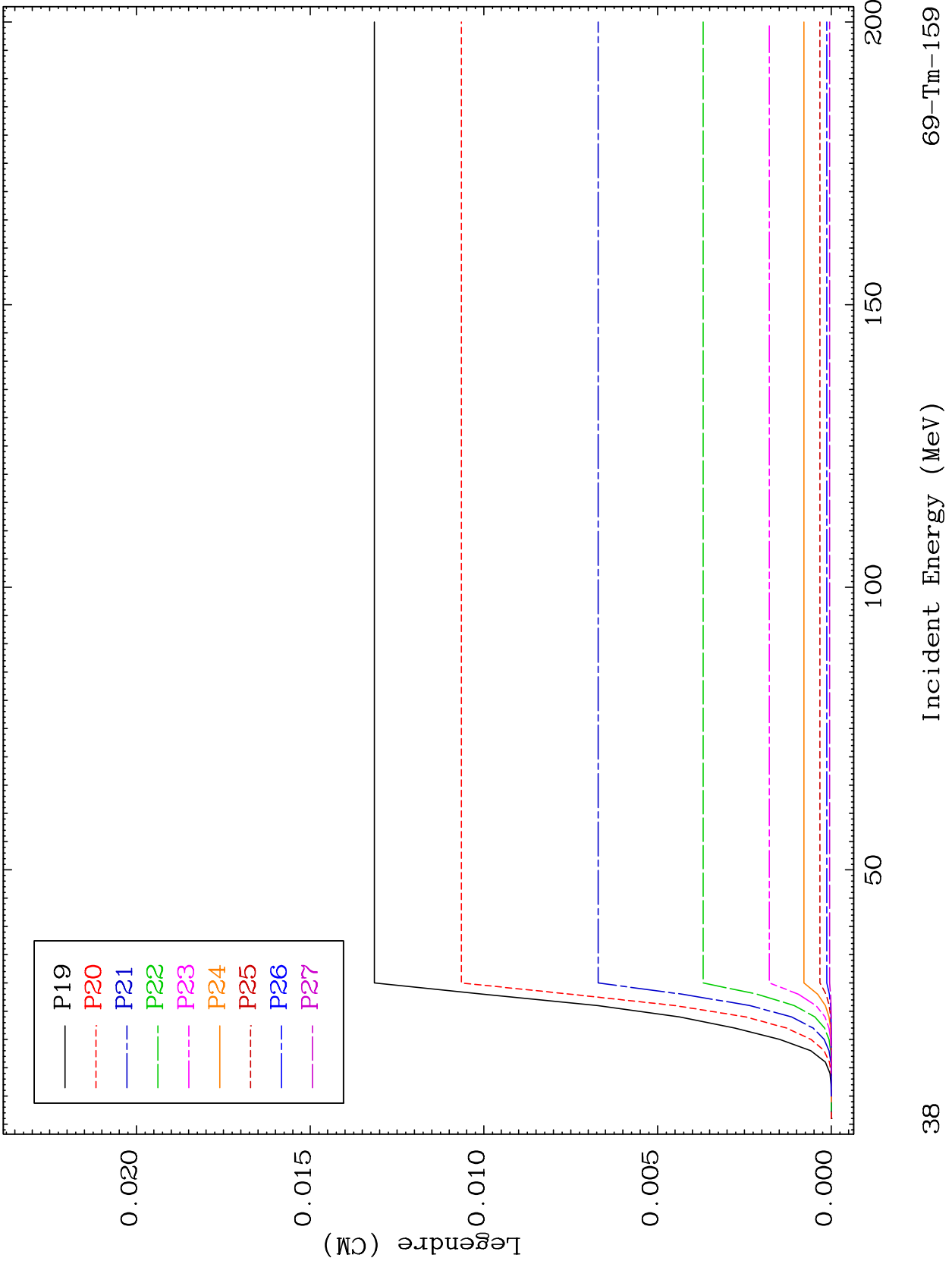
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



38

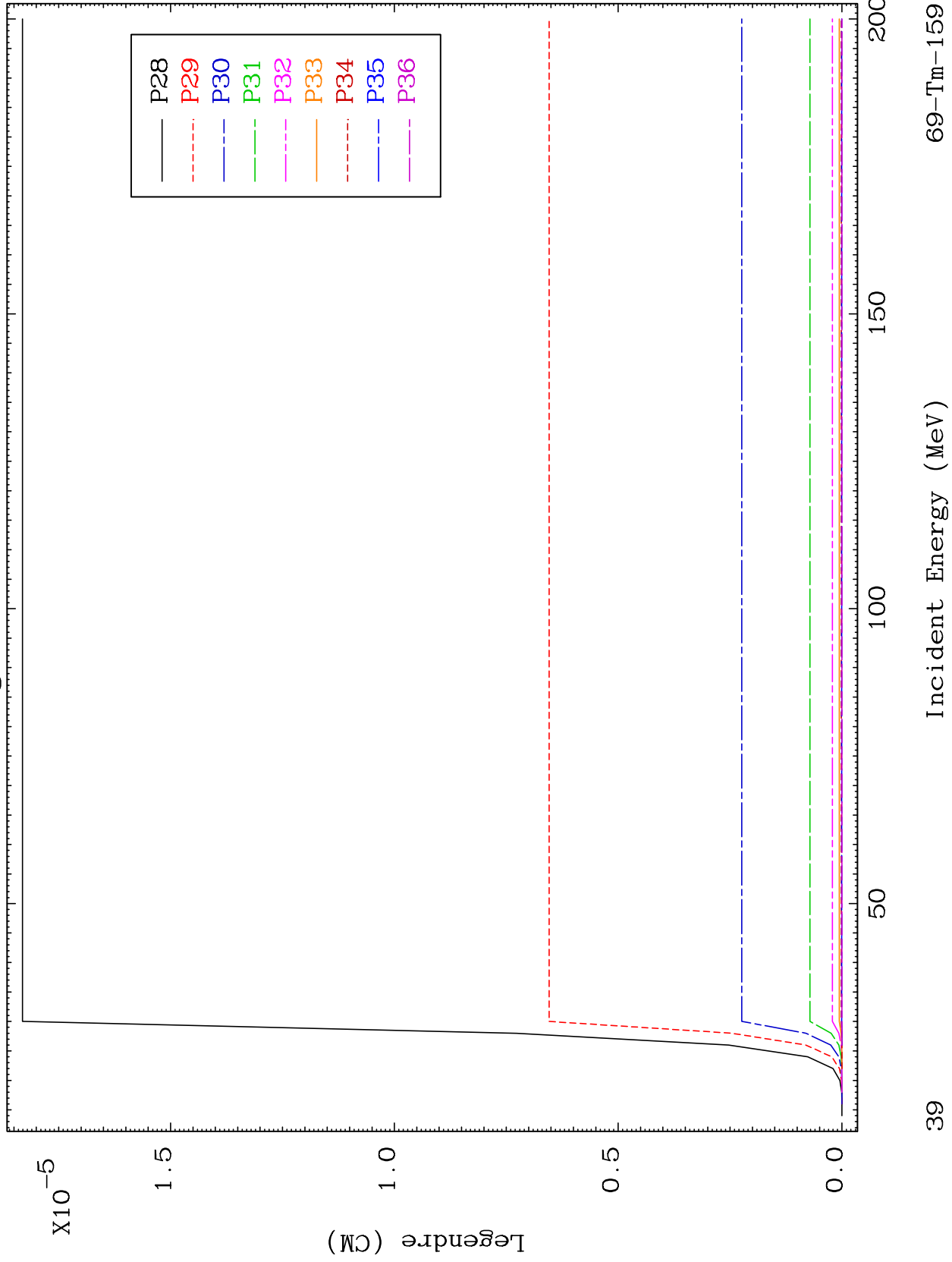
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159

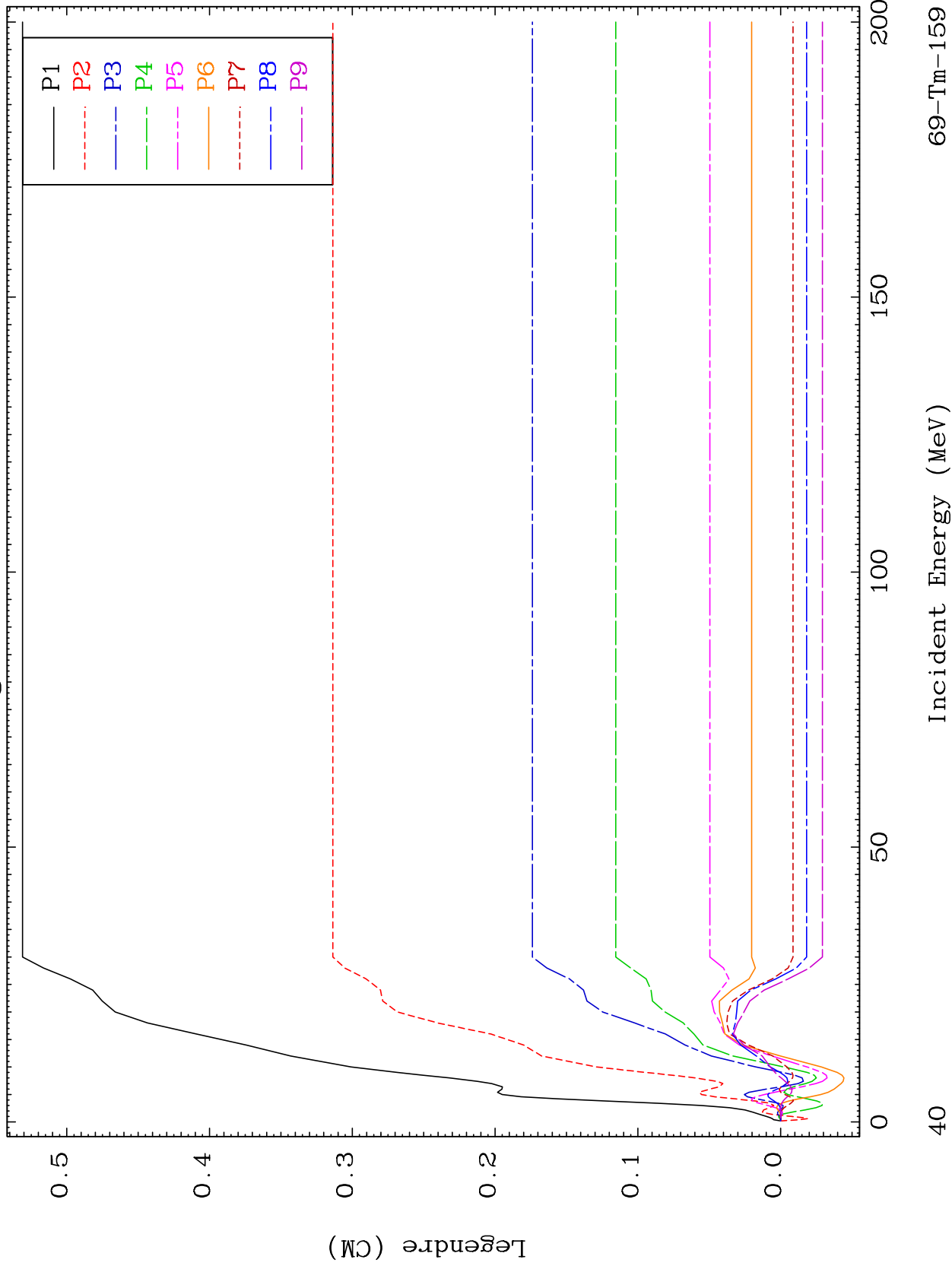


39

MAT 6895

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

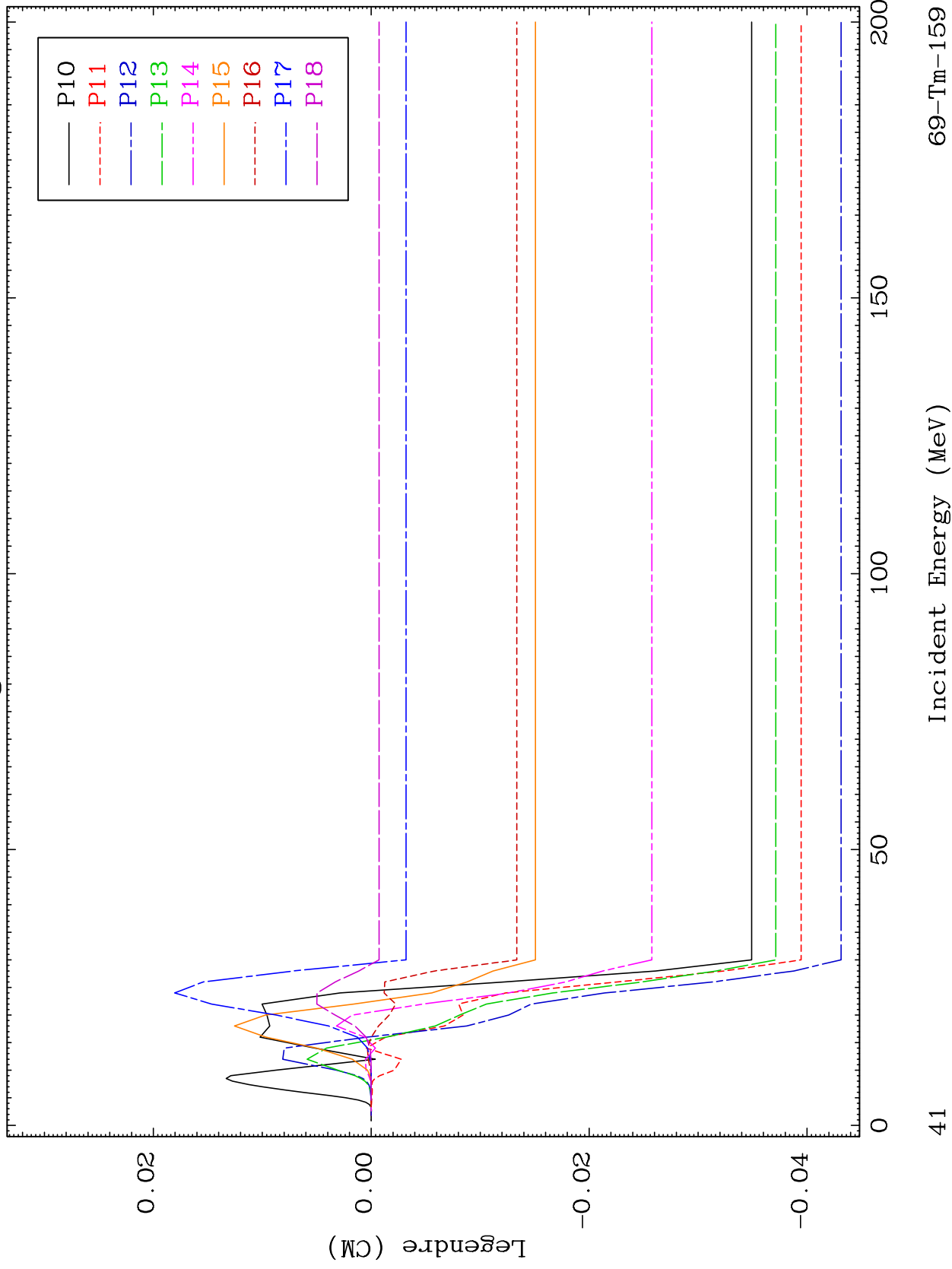
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MAT 6895

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

69-Tm-159



41

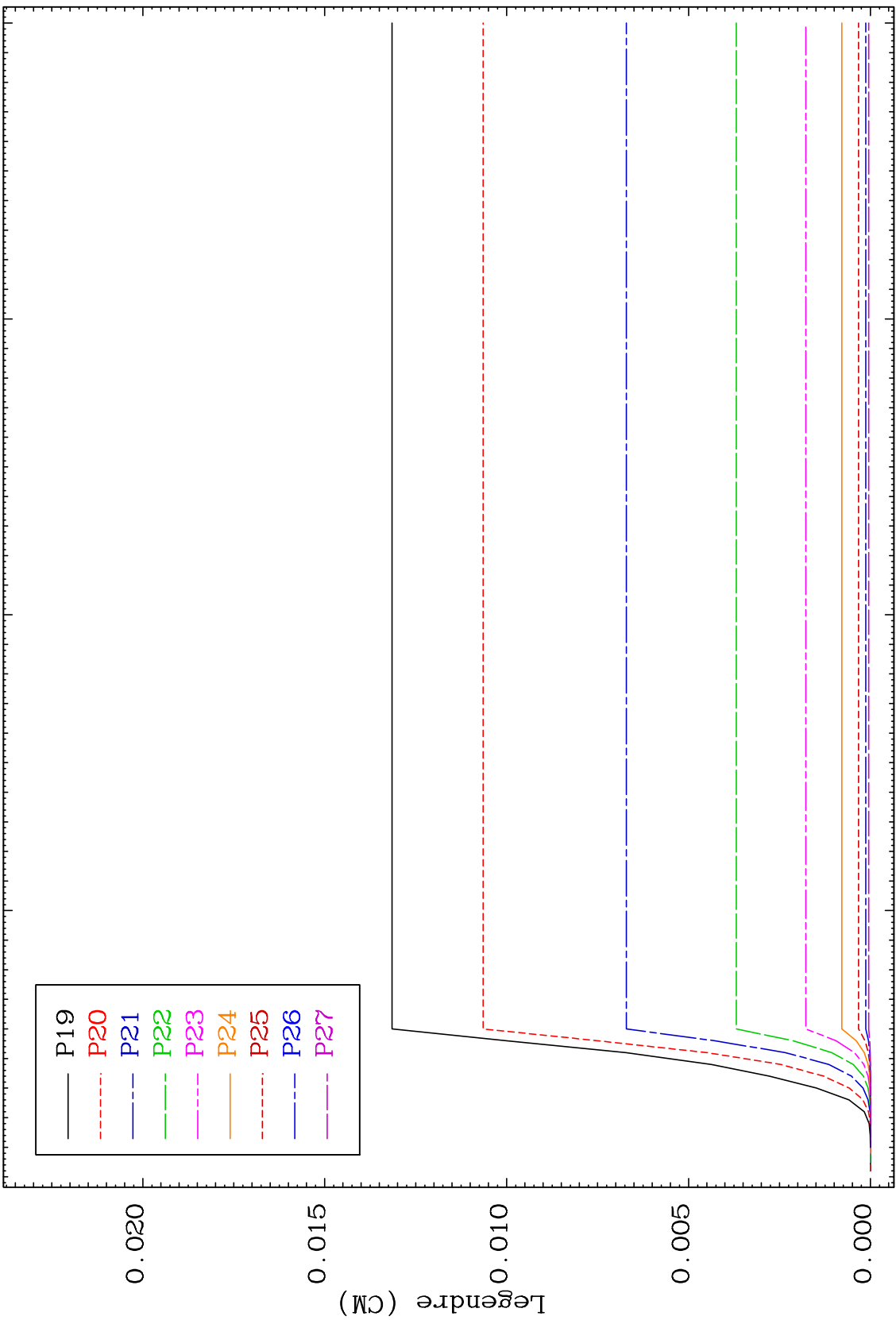
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



42

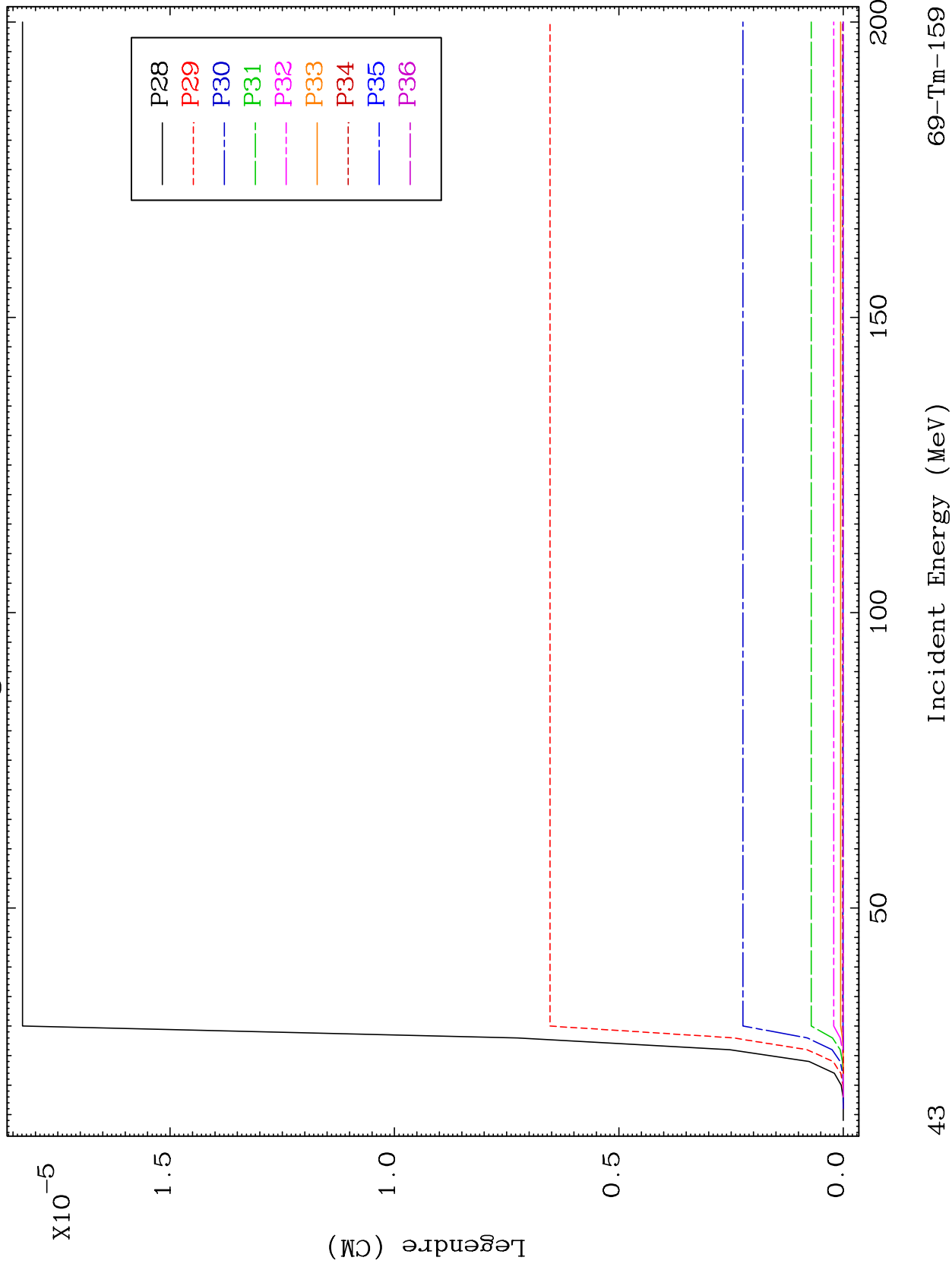
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

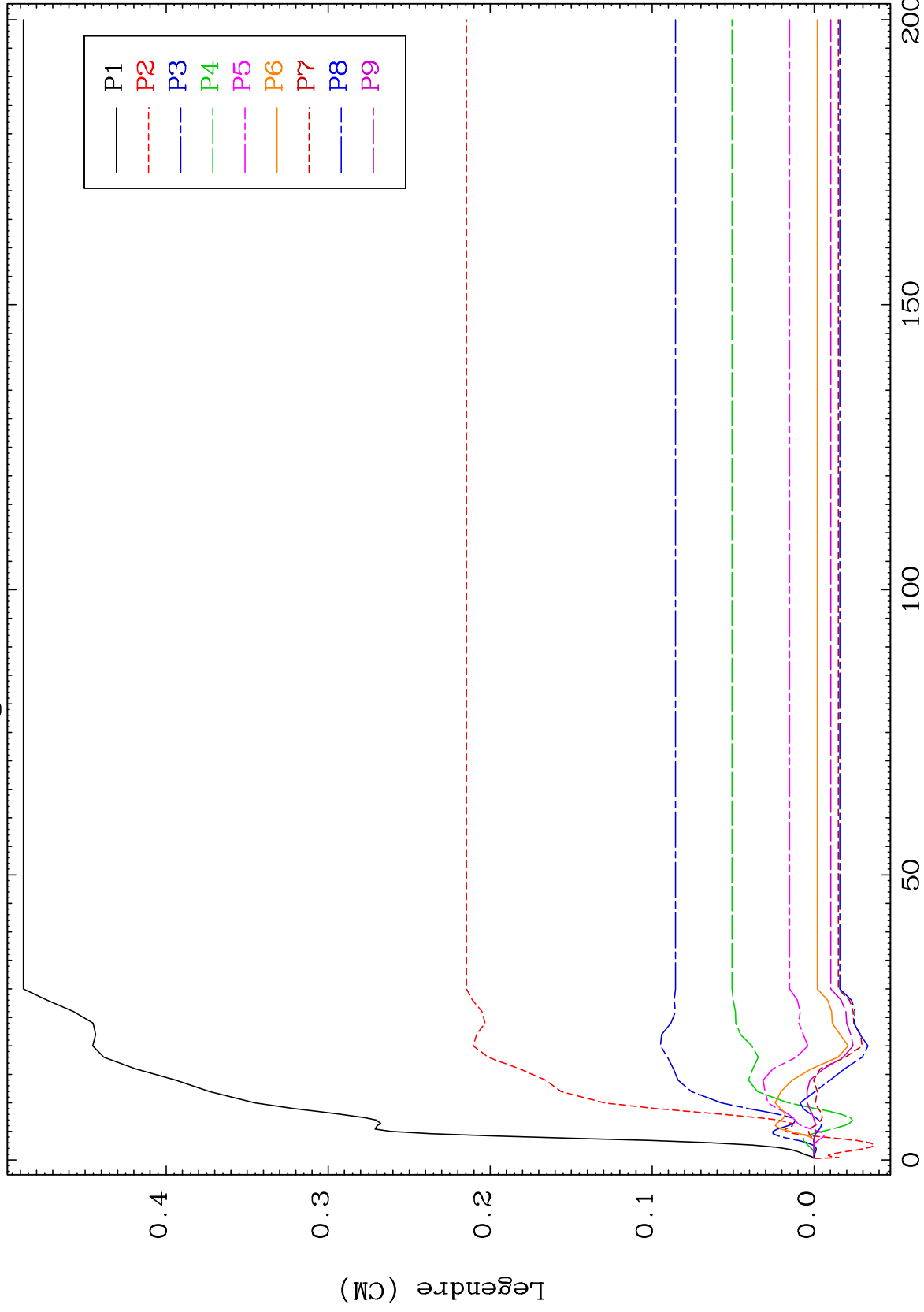
69-Tm-159



MAT 6895

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

69-Tm-159



44

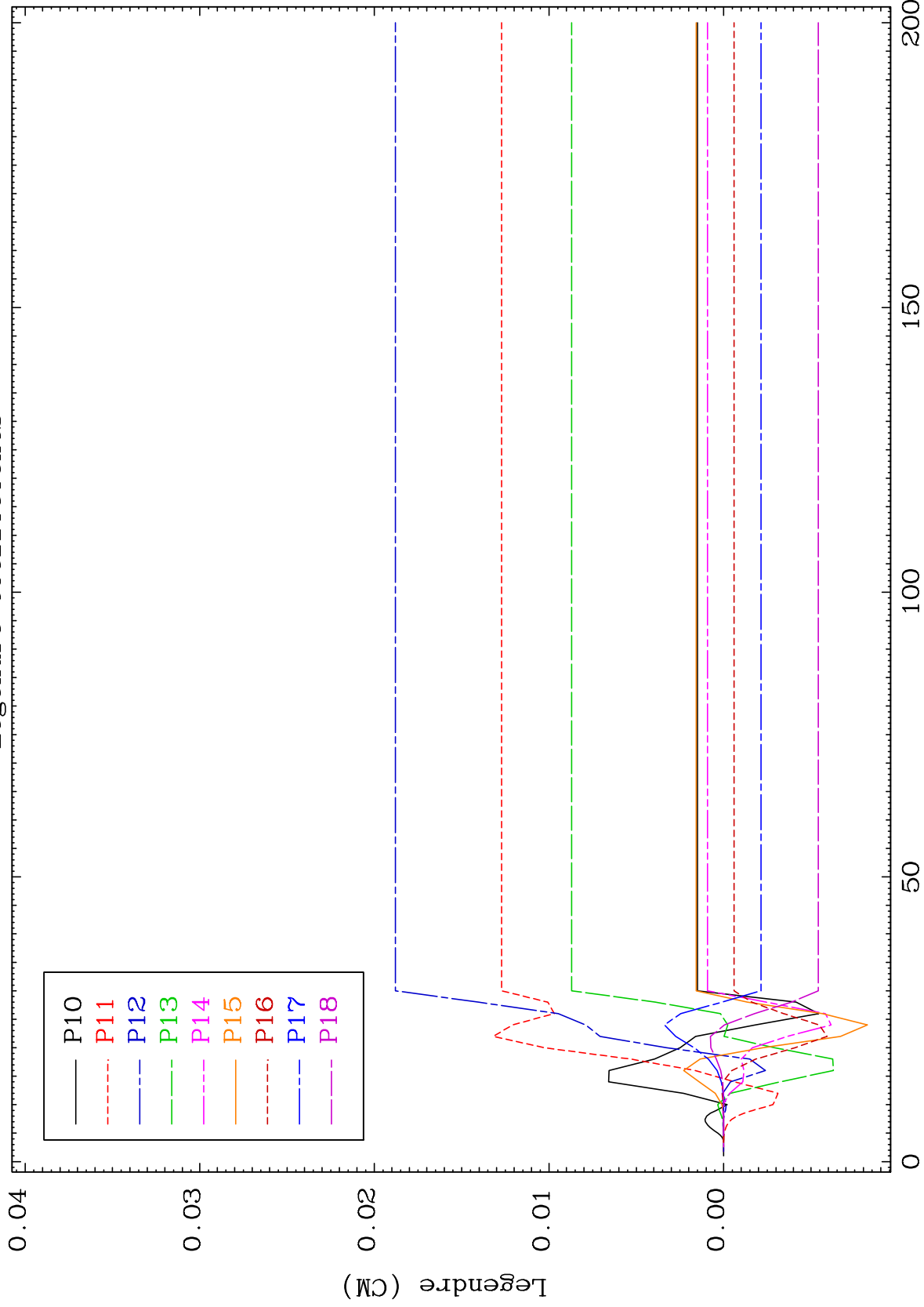
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



Incident Energy (MeV)

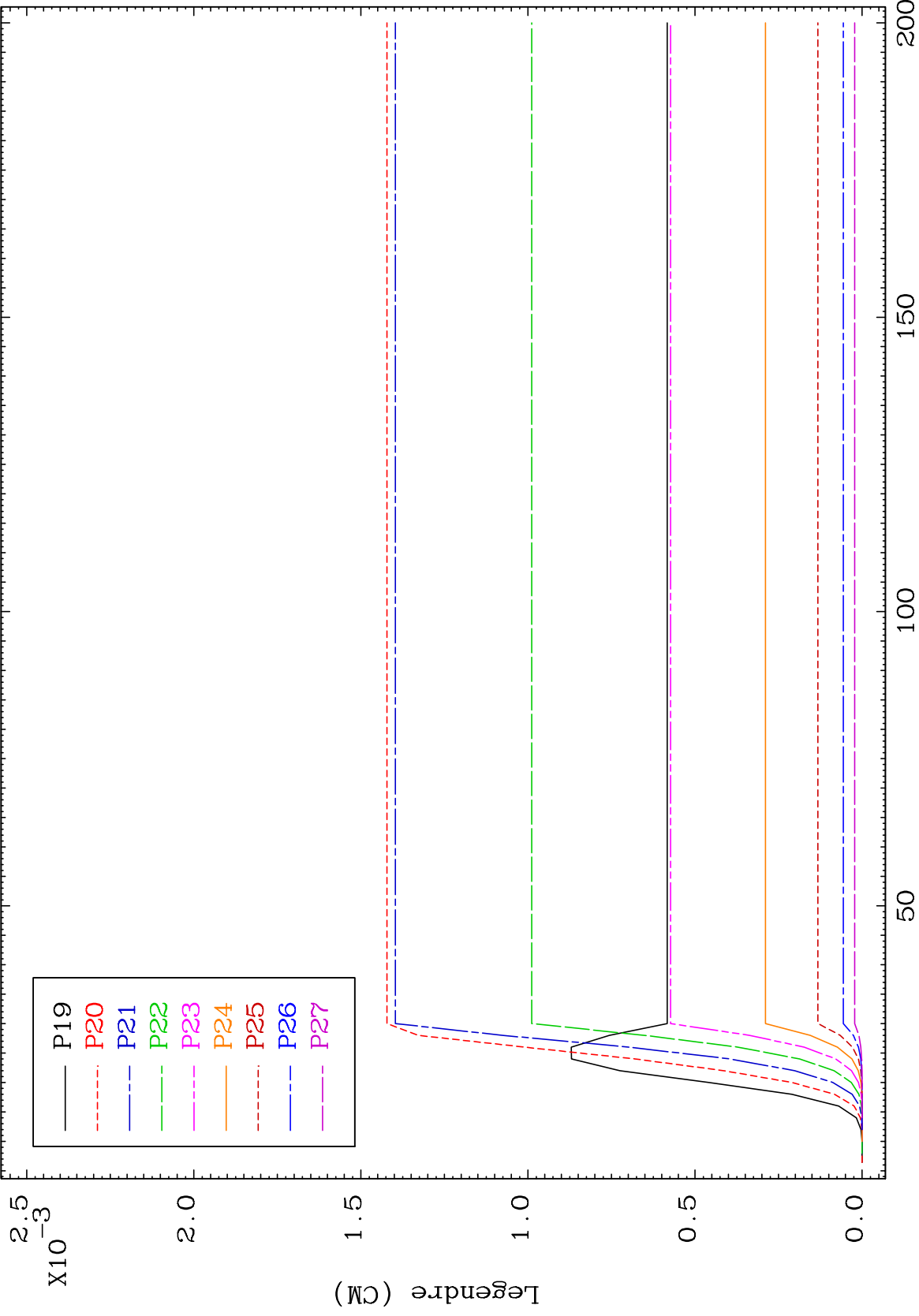
69-Tm-159

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MAT 6895

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

69-Tm-159



46

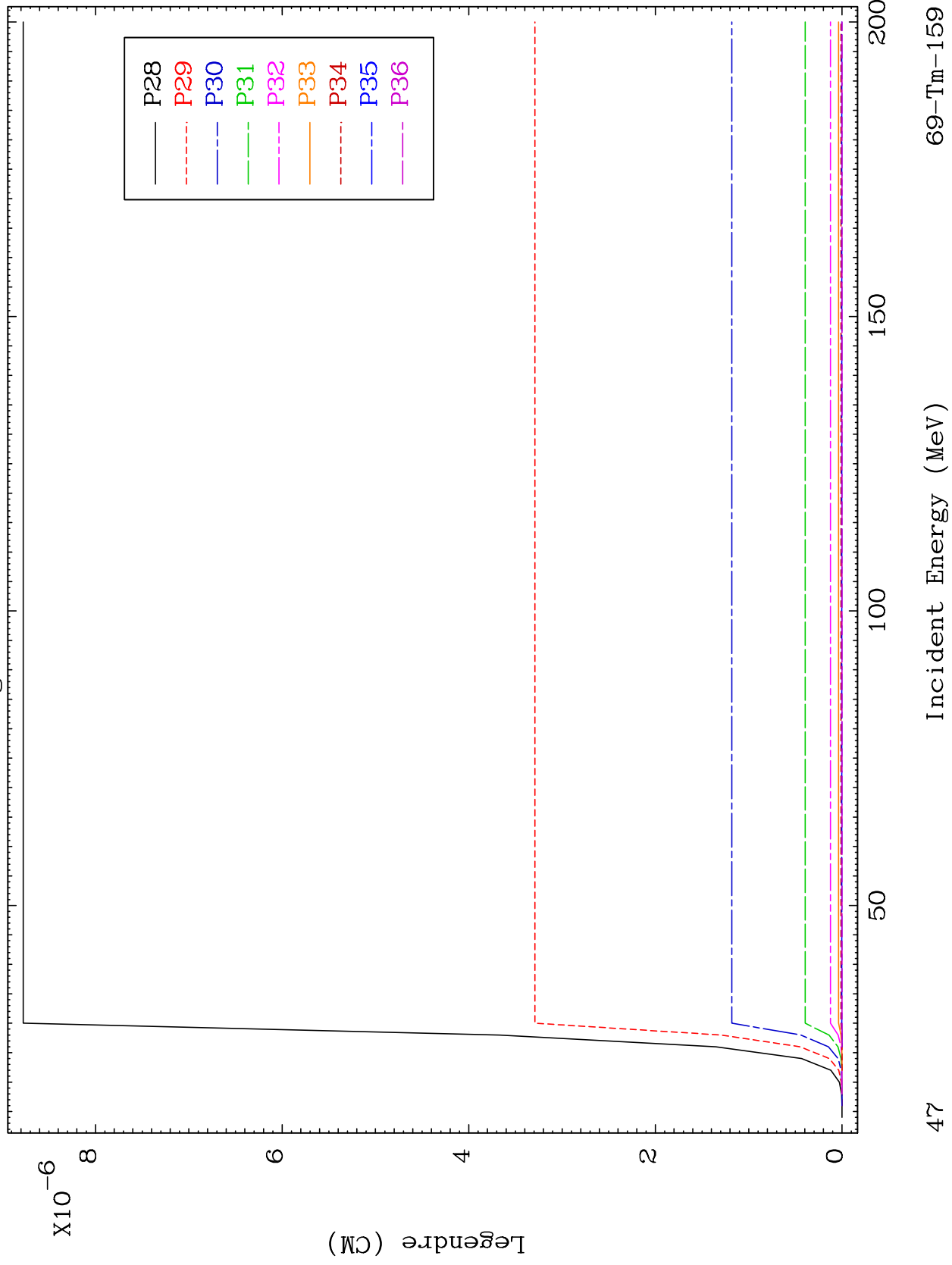
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



47

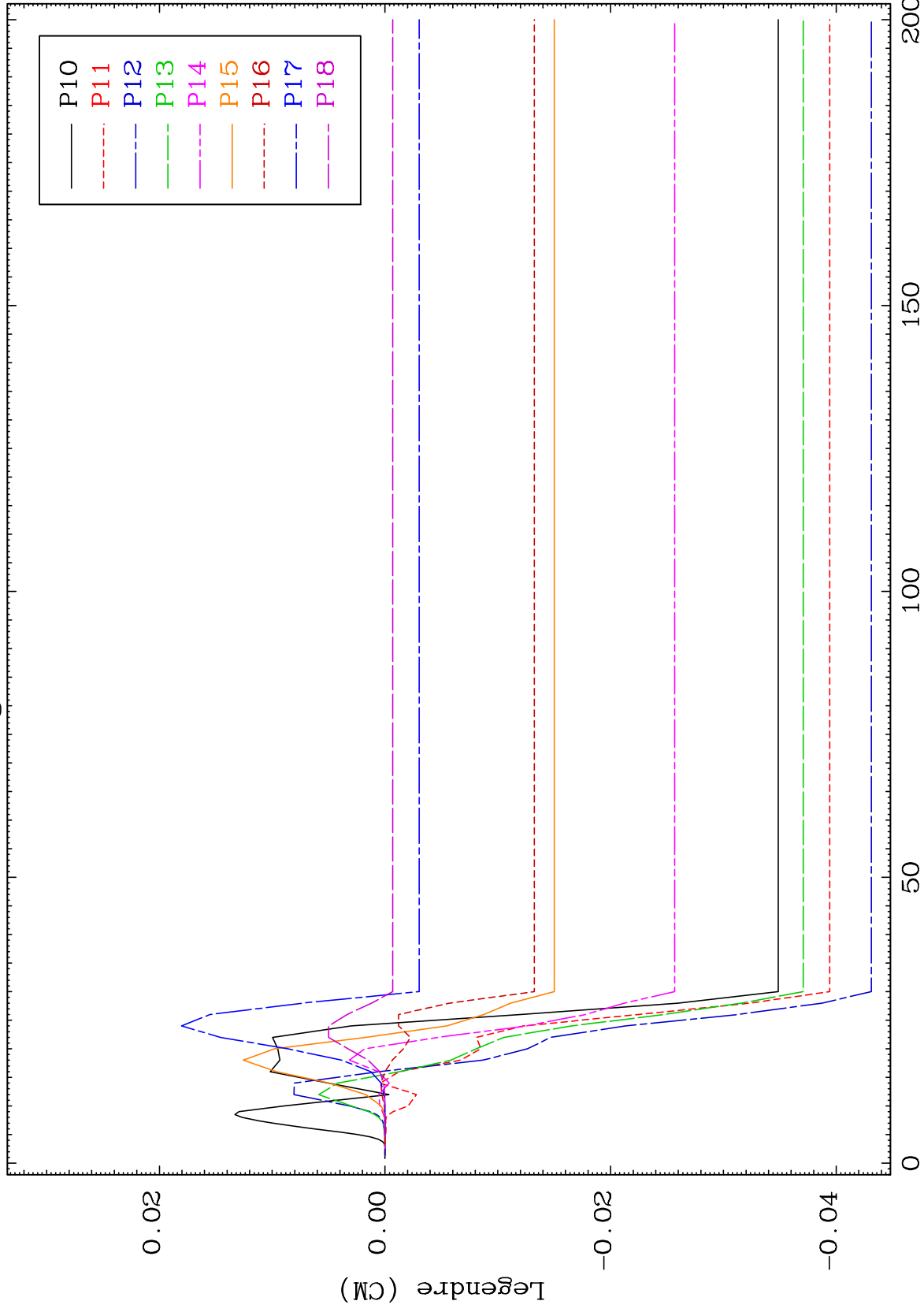
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



49

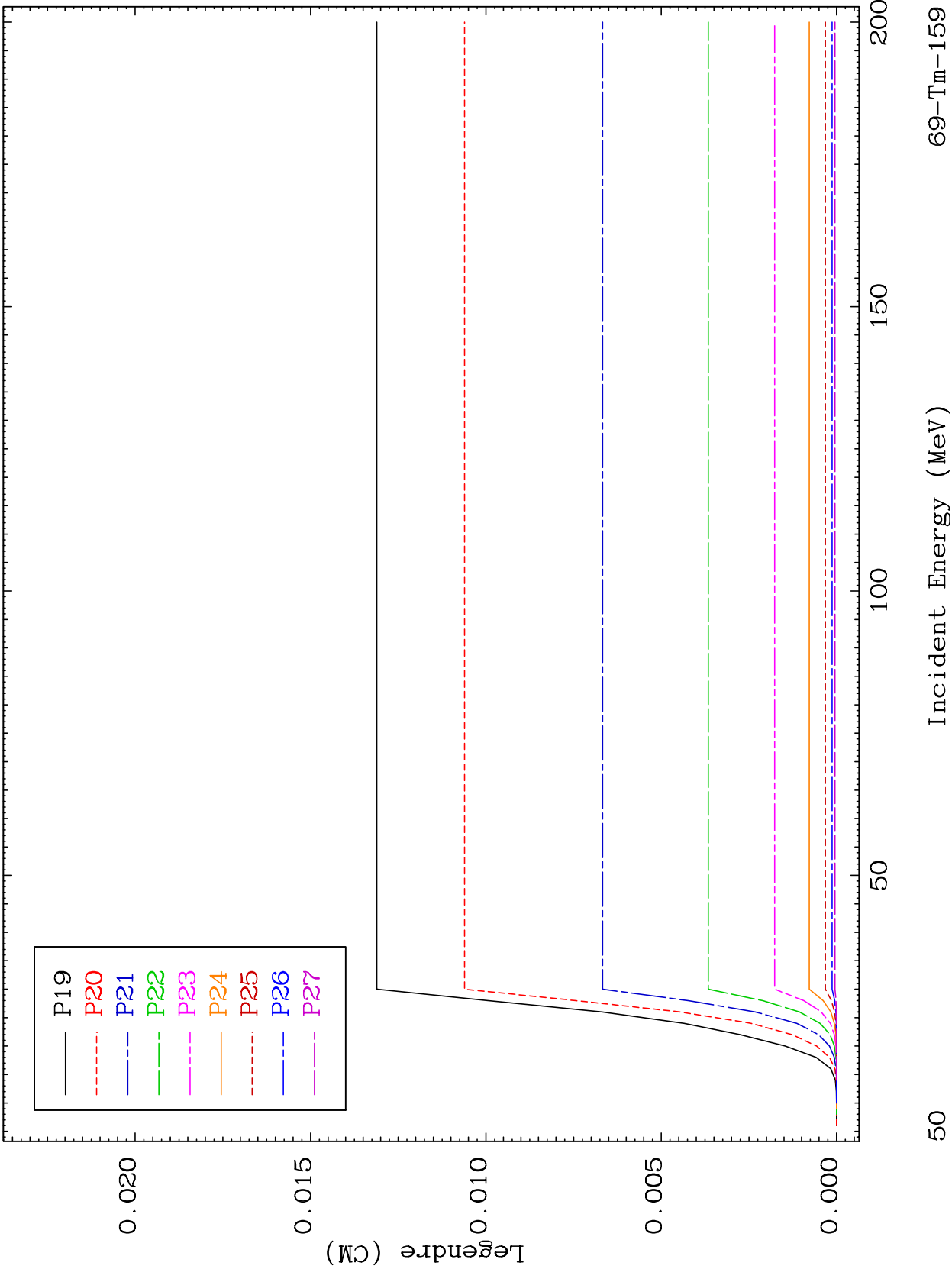
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



69-Tm-159

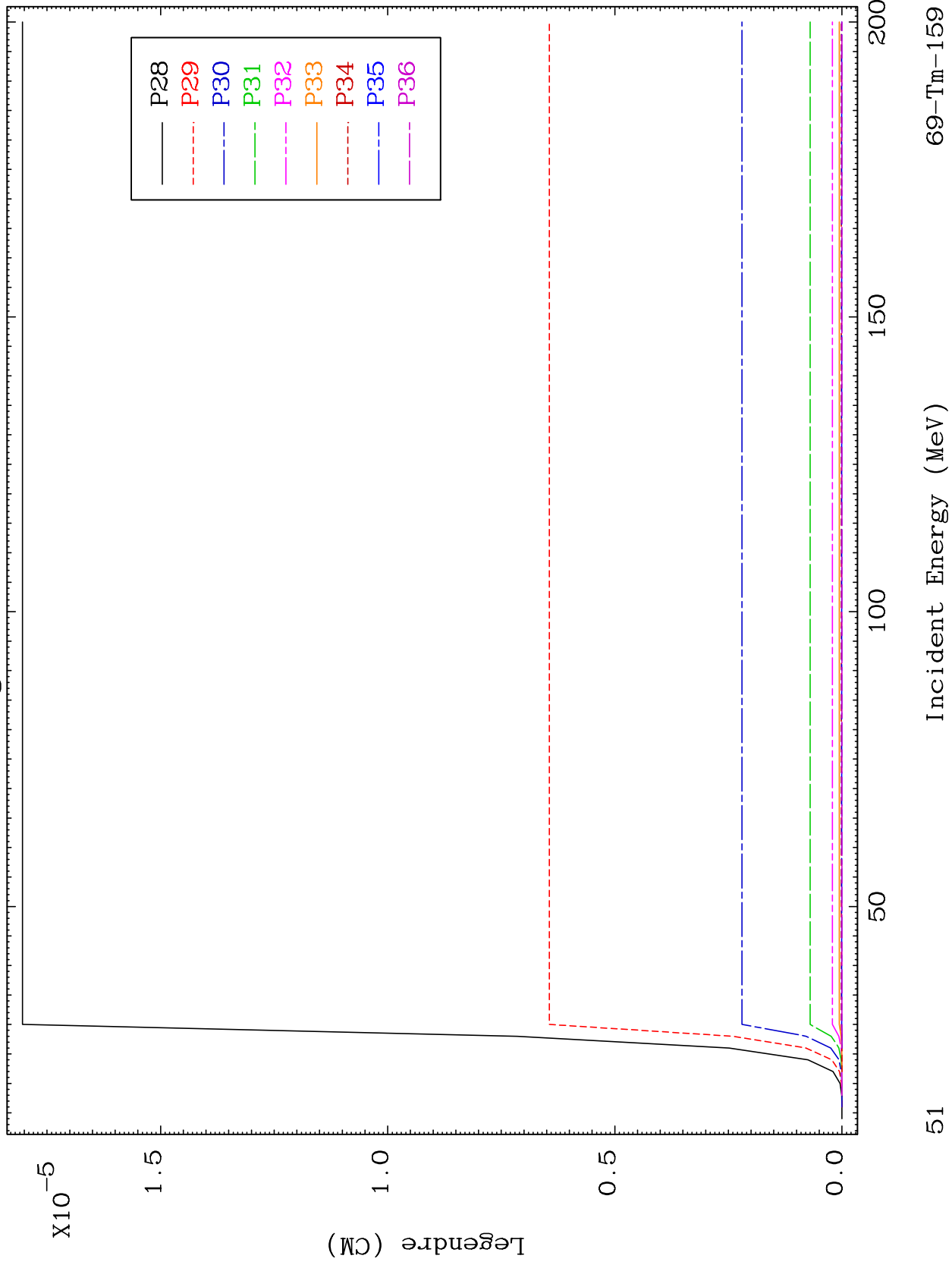
Incident Energy (MeV)

50

MAT 6895

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

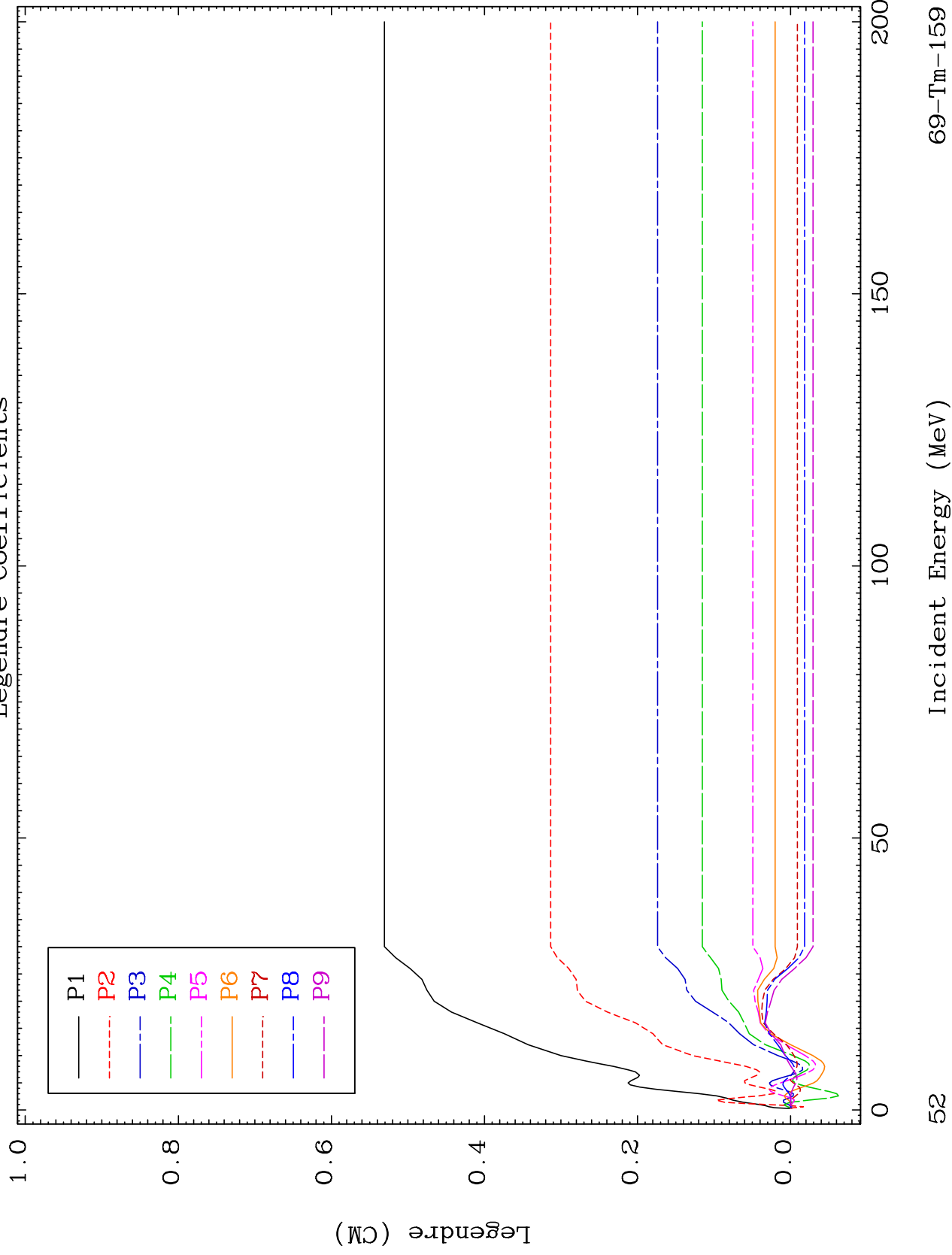
69-Tm-159



MAT 6895

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

69-Tm-159



52

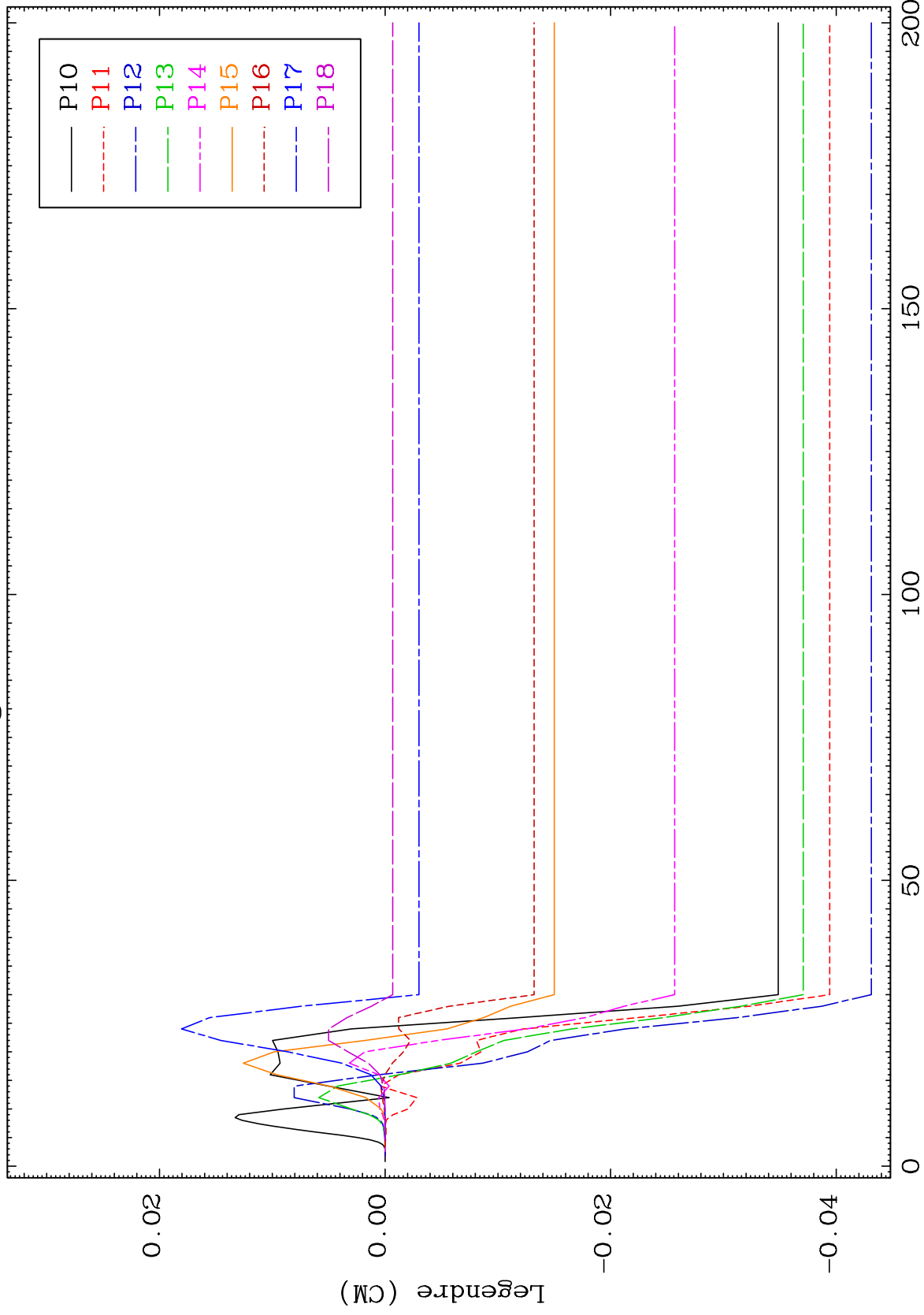
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

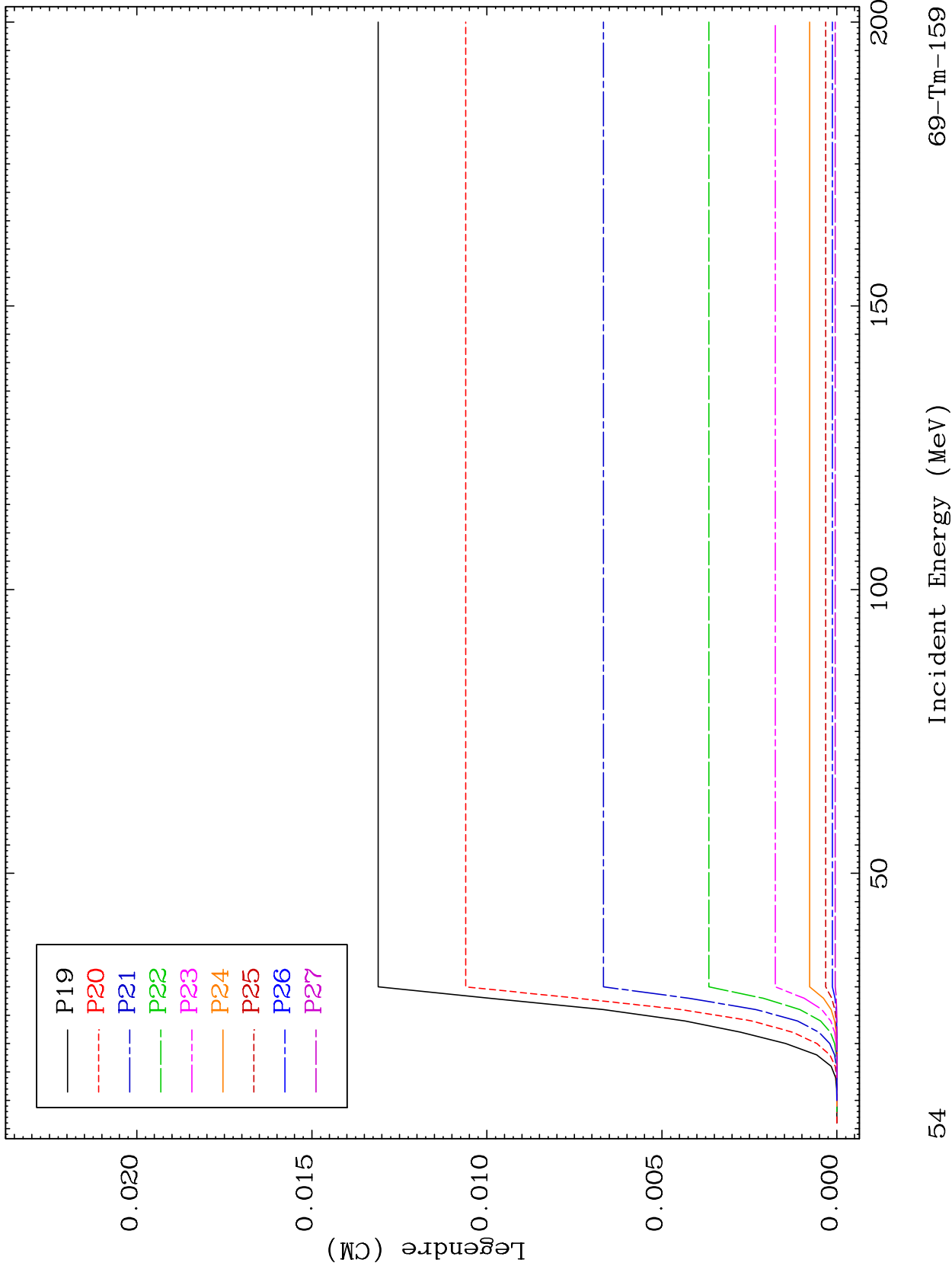
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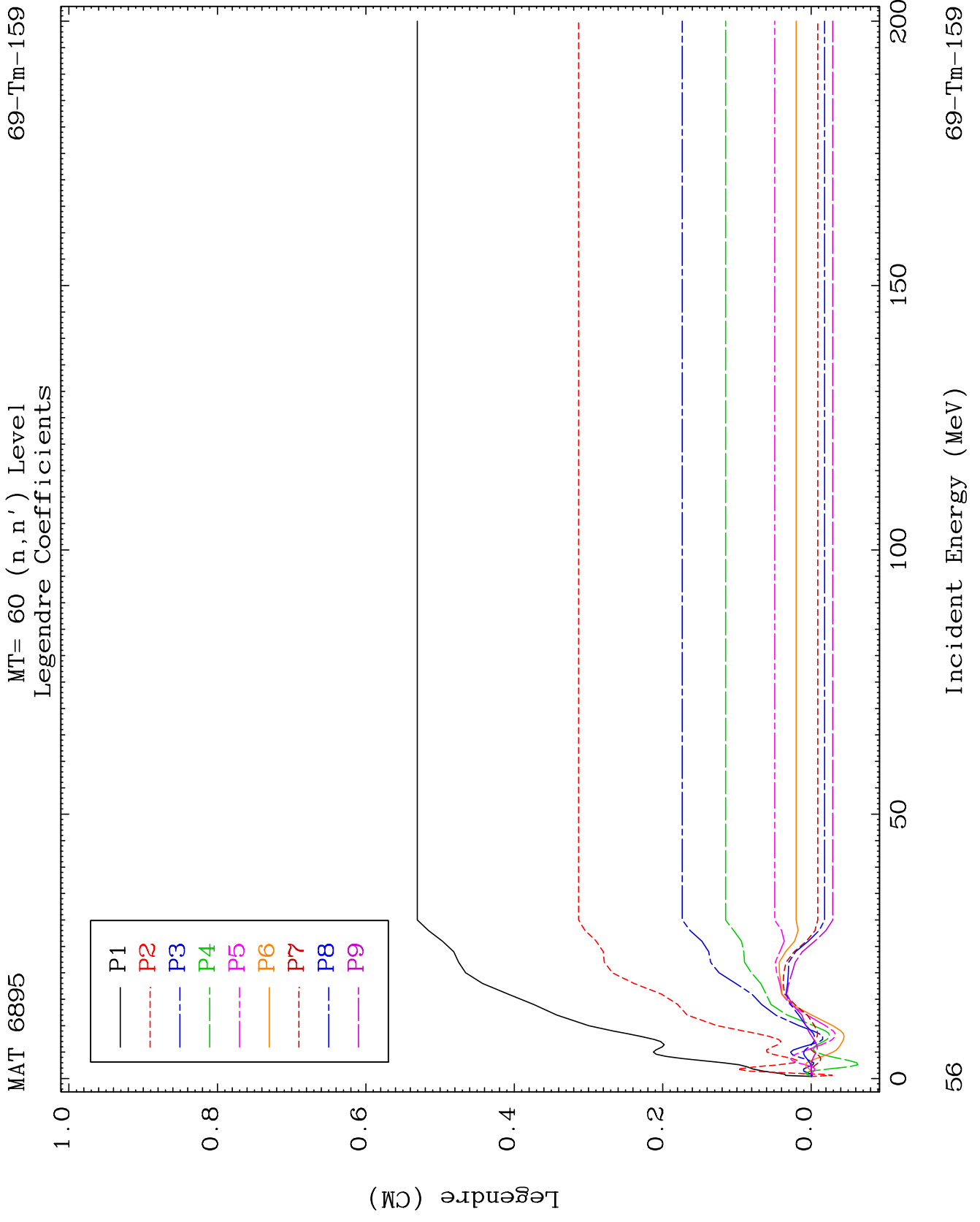


53

Incident Energy (MeV)

69-Tm-159

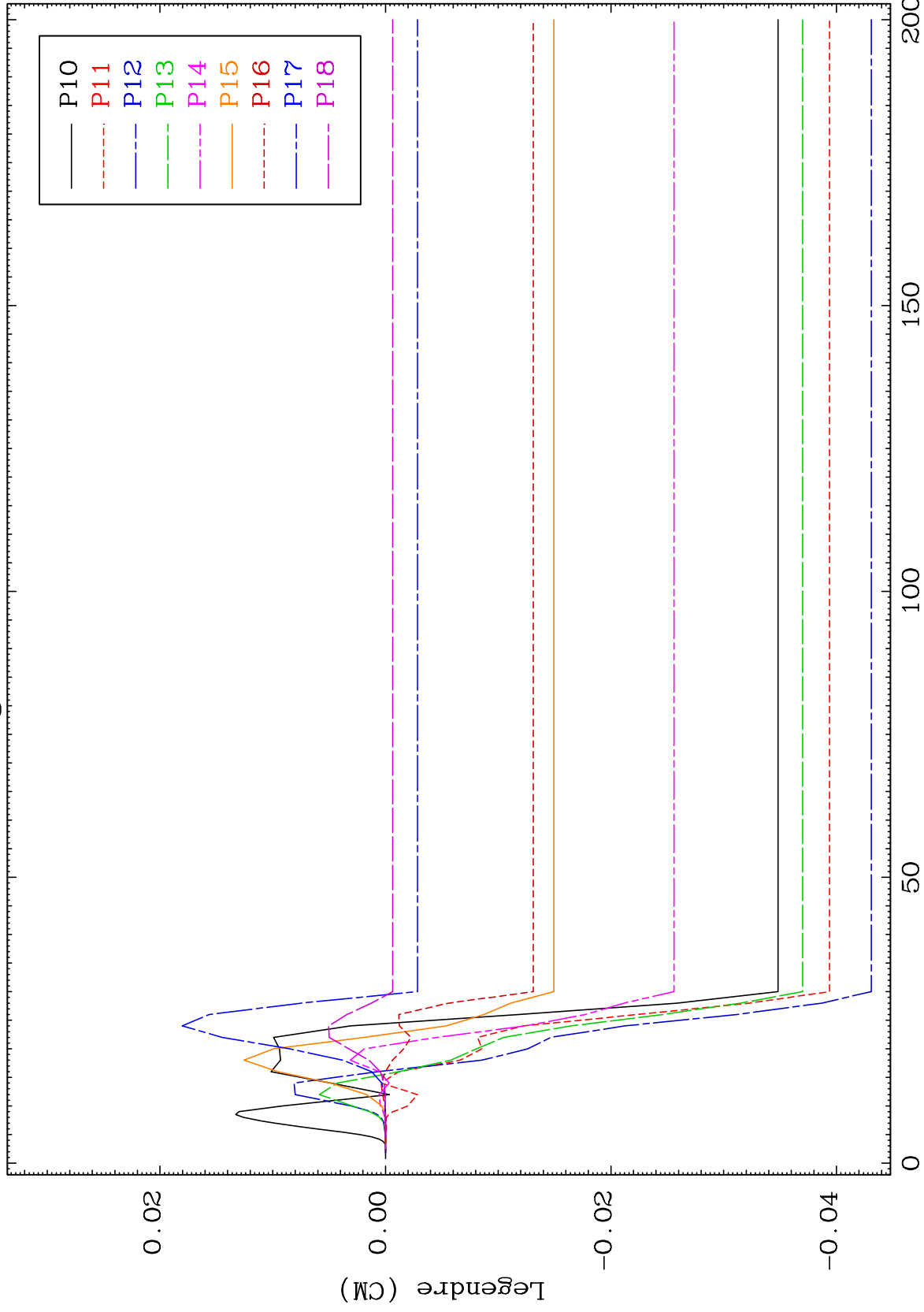




MAT 6895

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

69-Tm-159



57

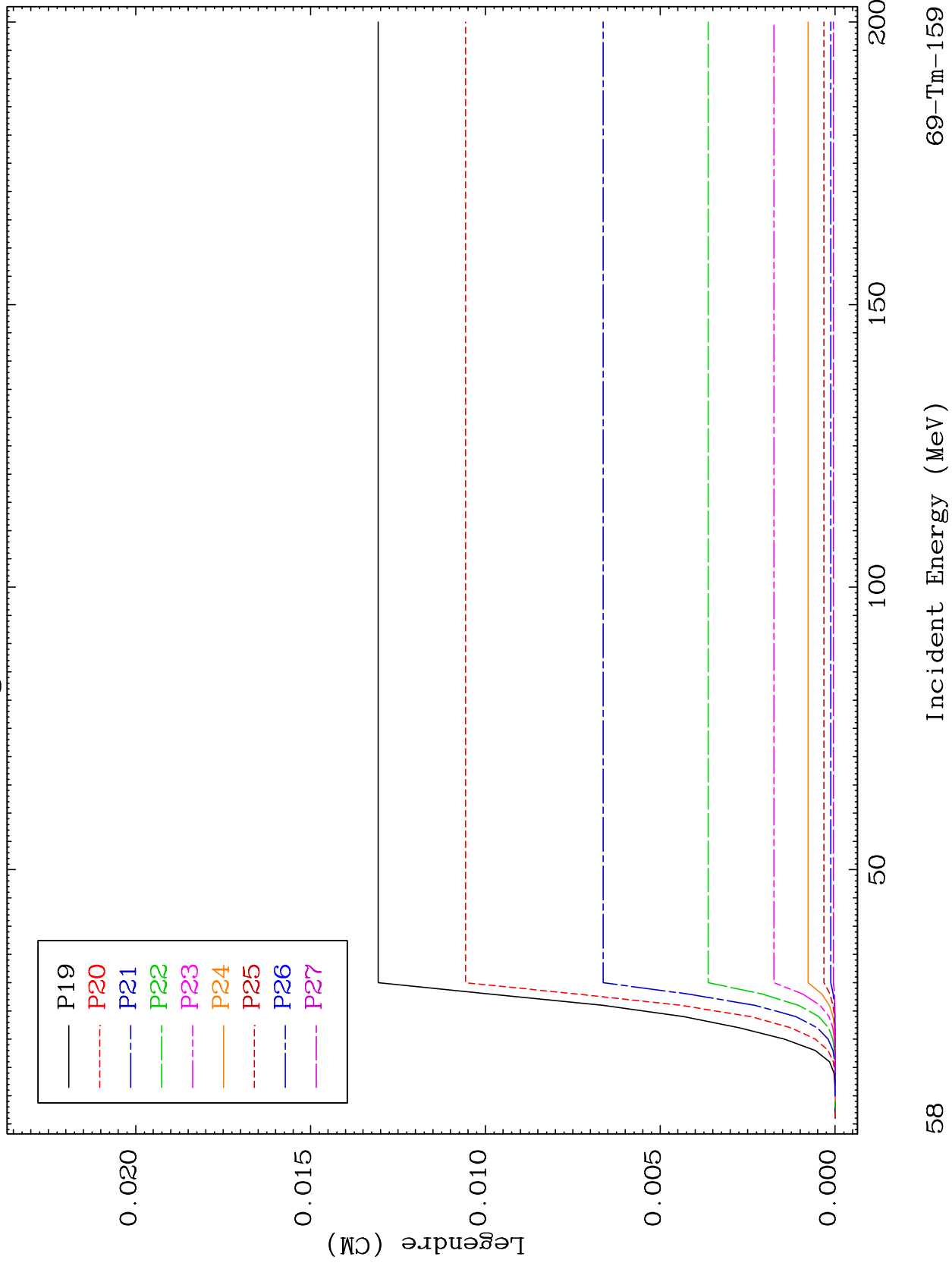
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



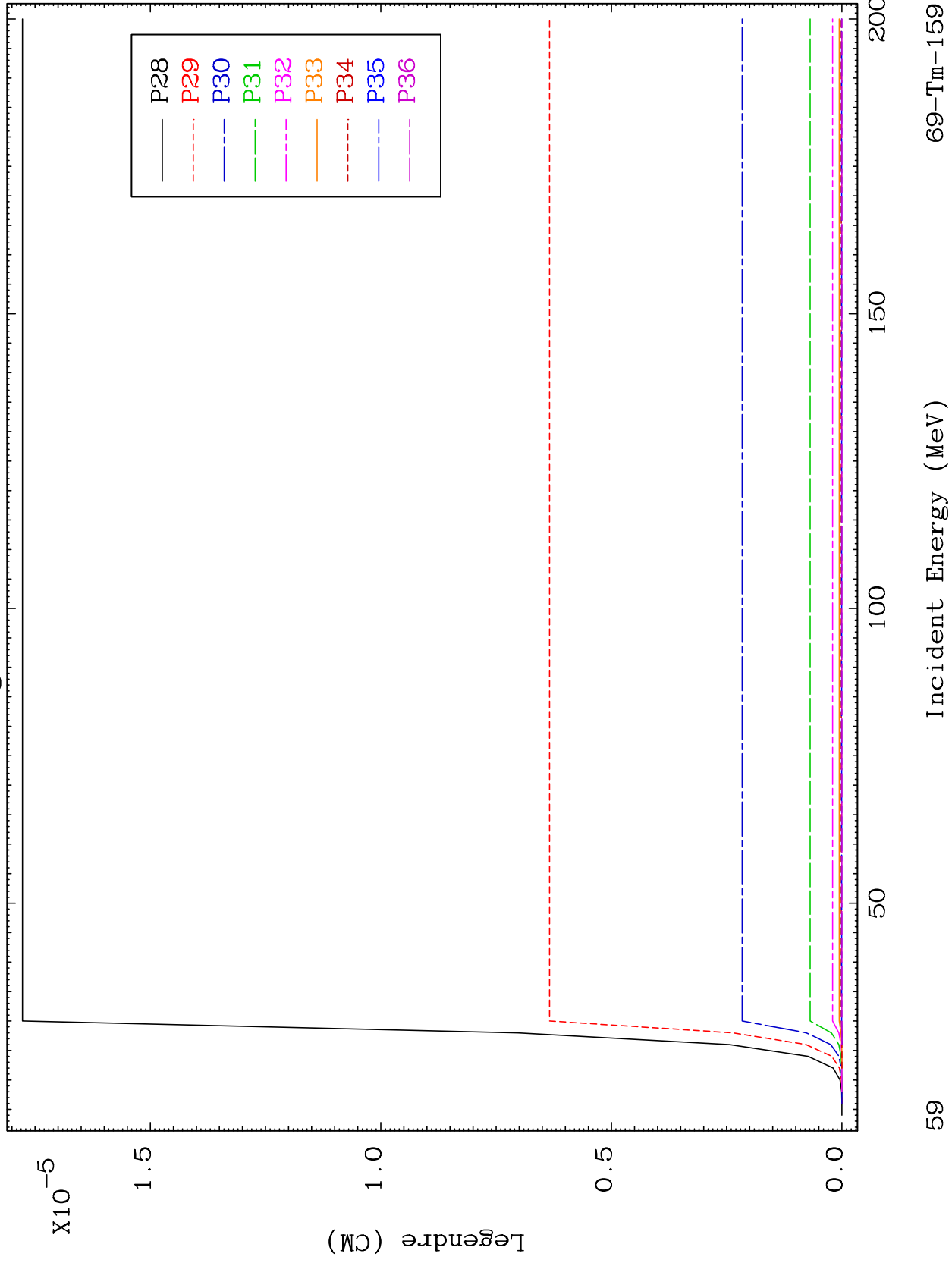
58

69-Tm-159

MAT 6895

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

69-Tm-159



59

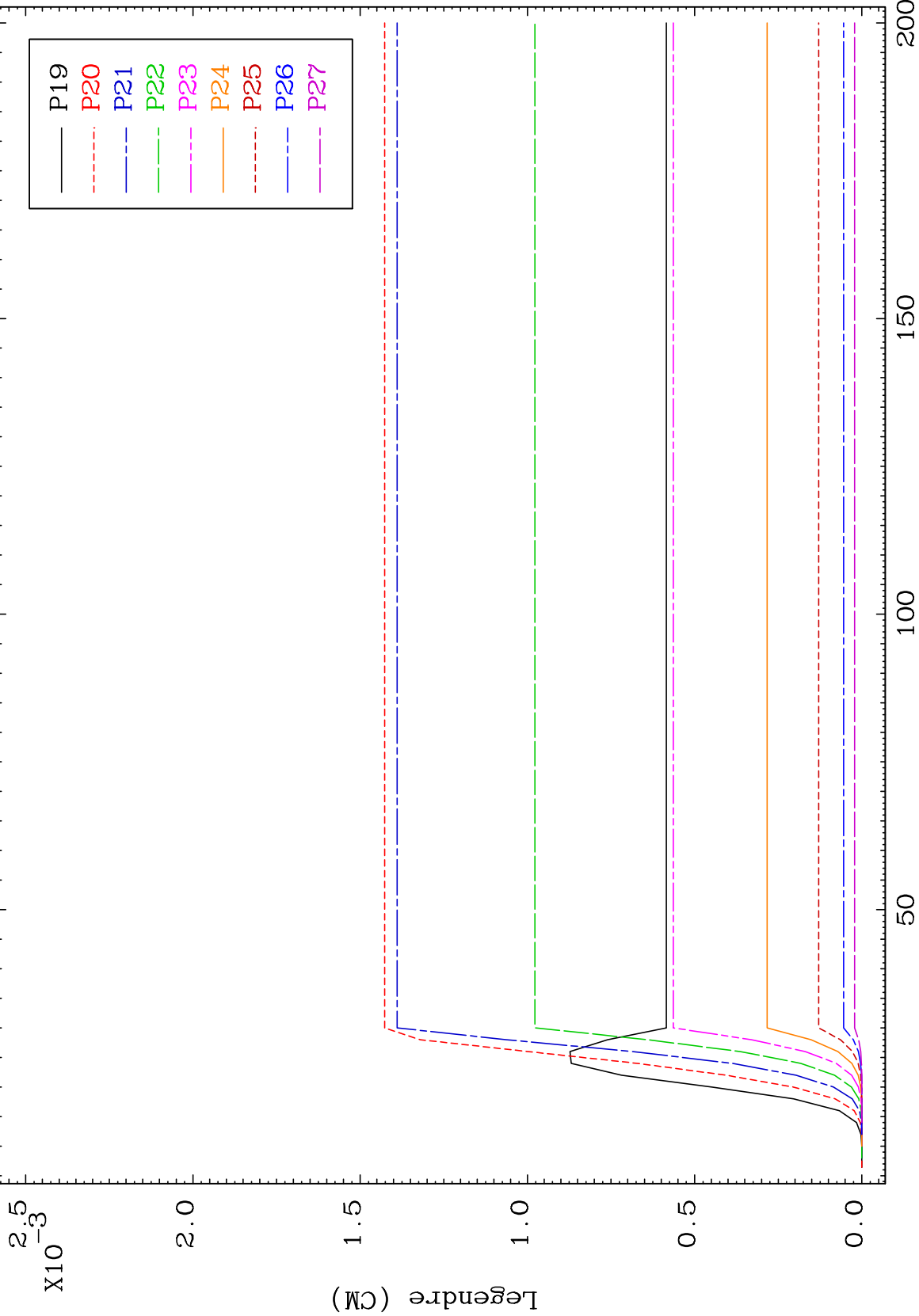
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

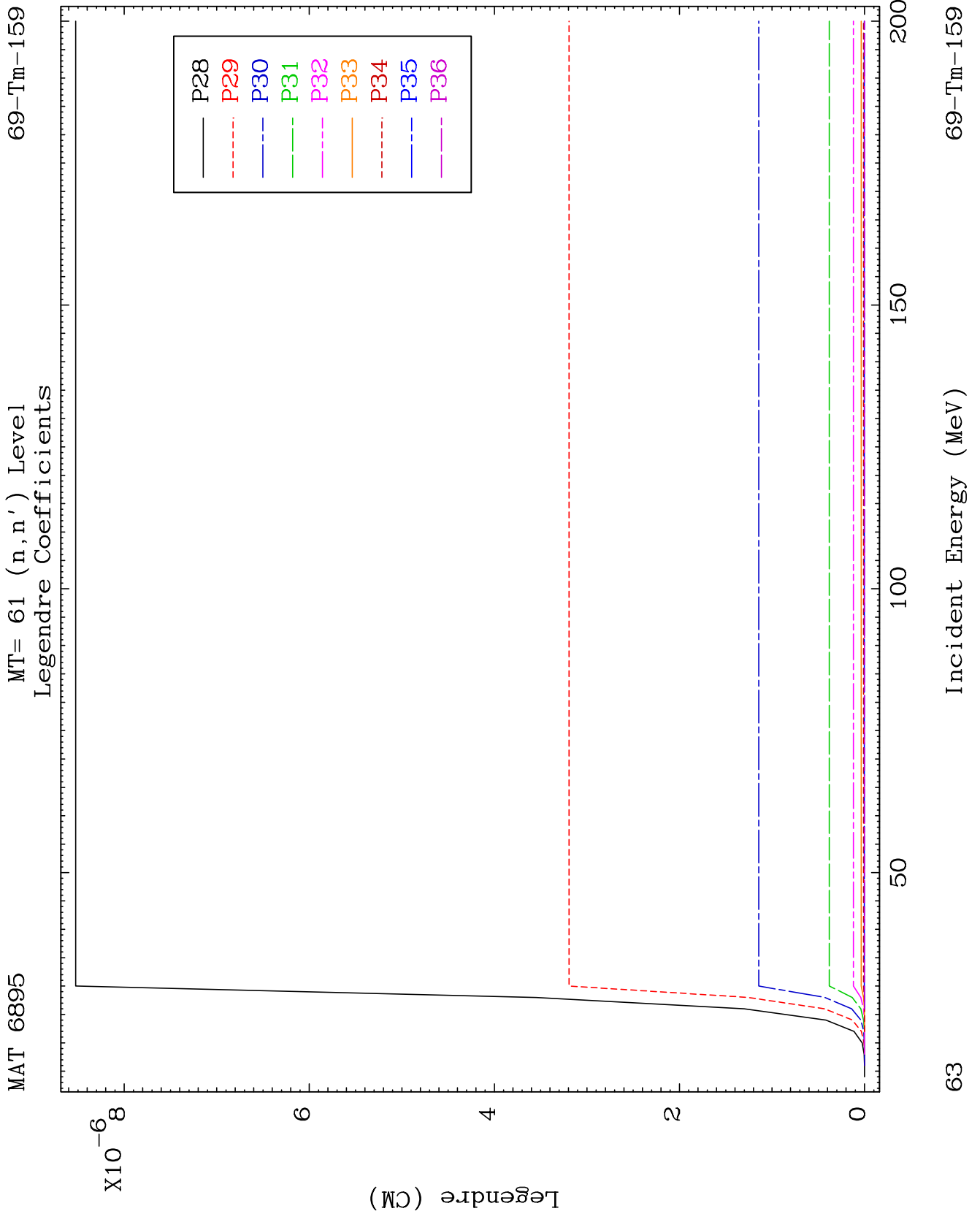
69-Tm-159



62

Incident Energy (MeV)

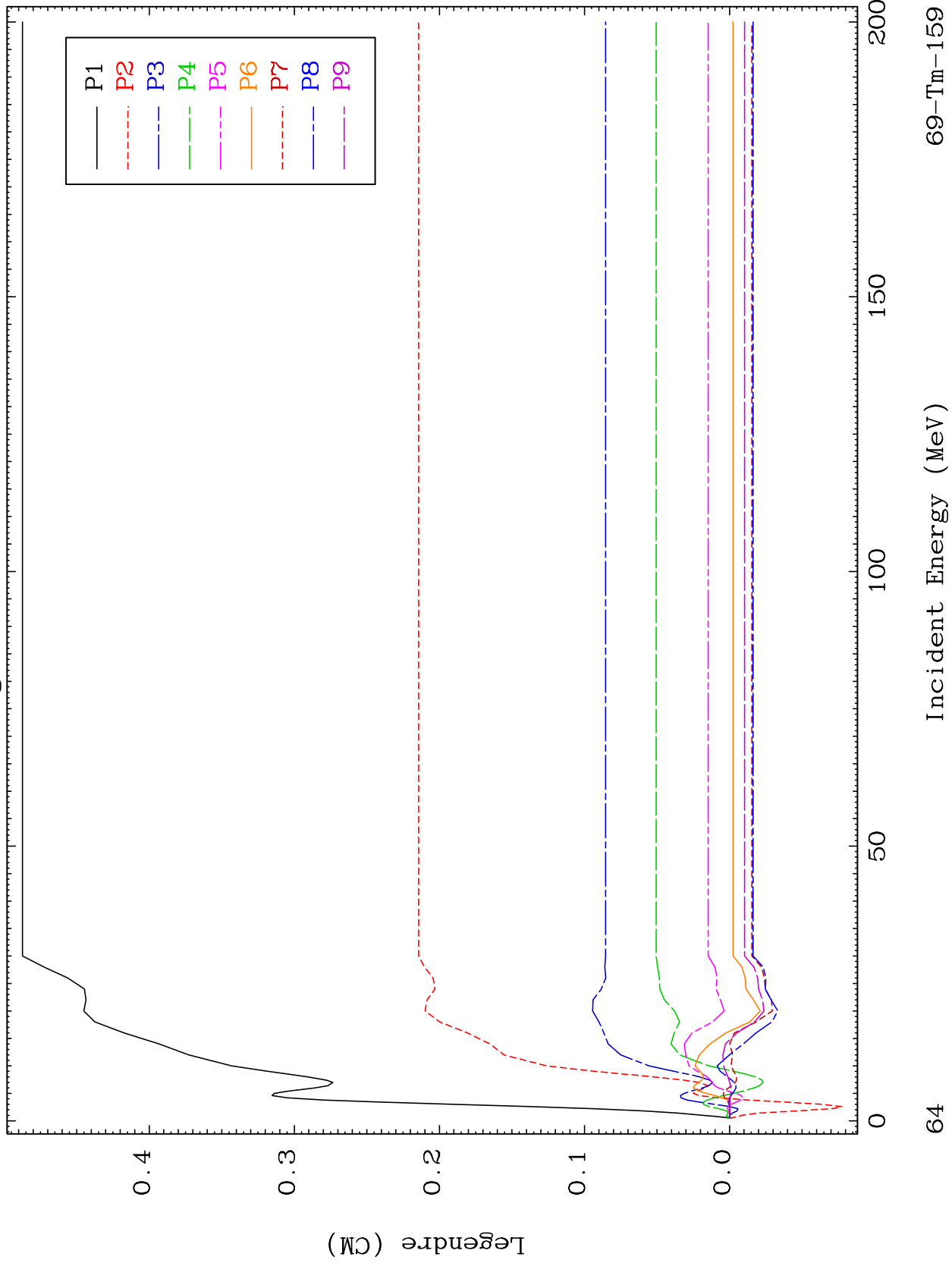
69-Tm-159



MAT 6895

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

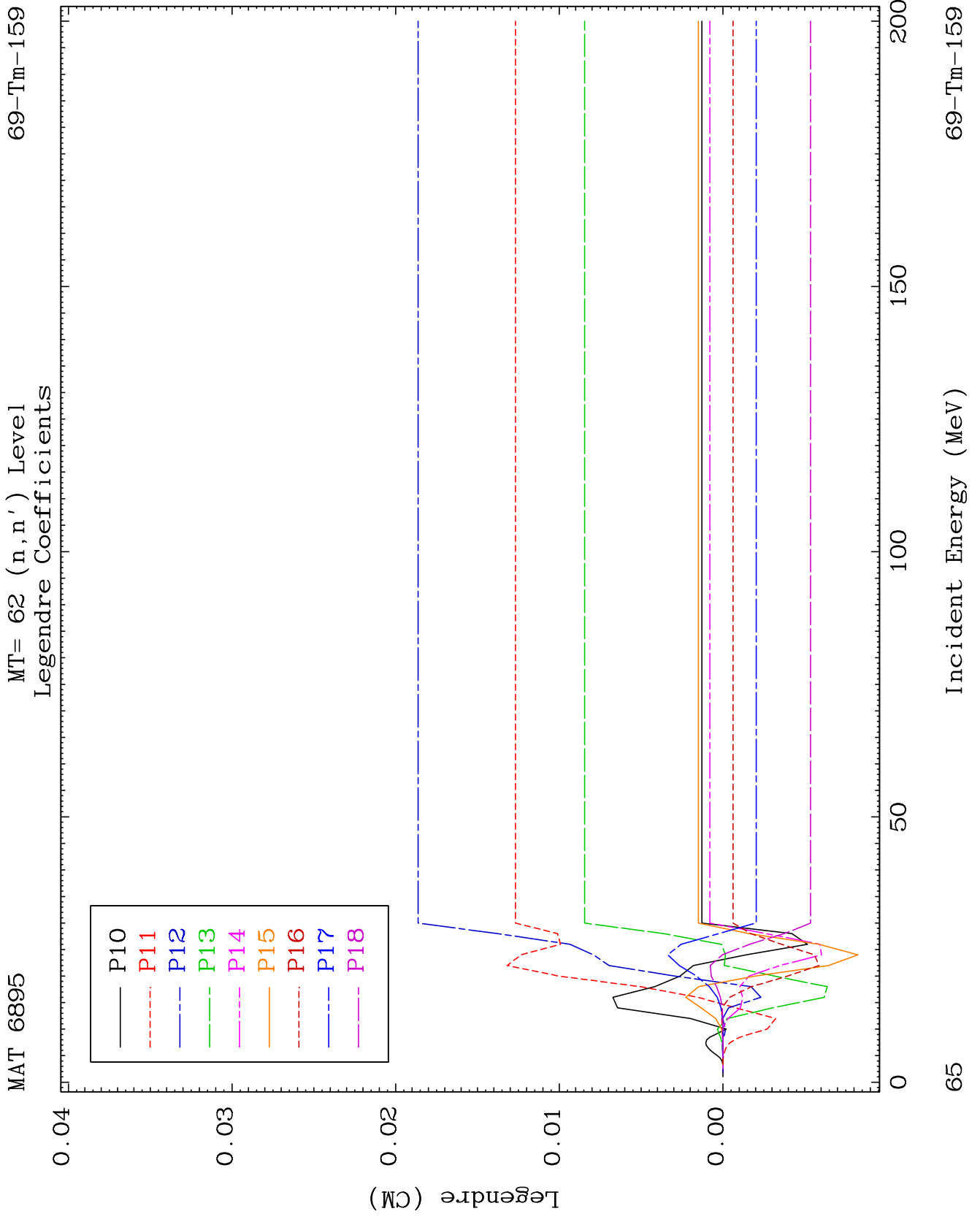
69-Tm-159



69-Tm-159

Incident Energy (MeV)

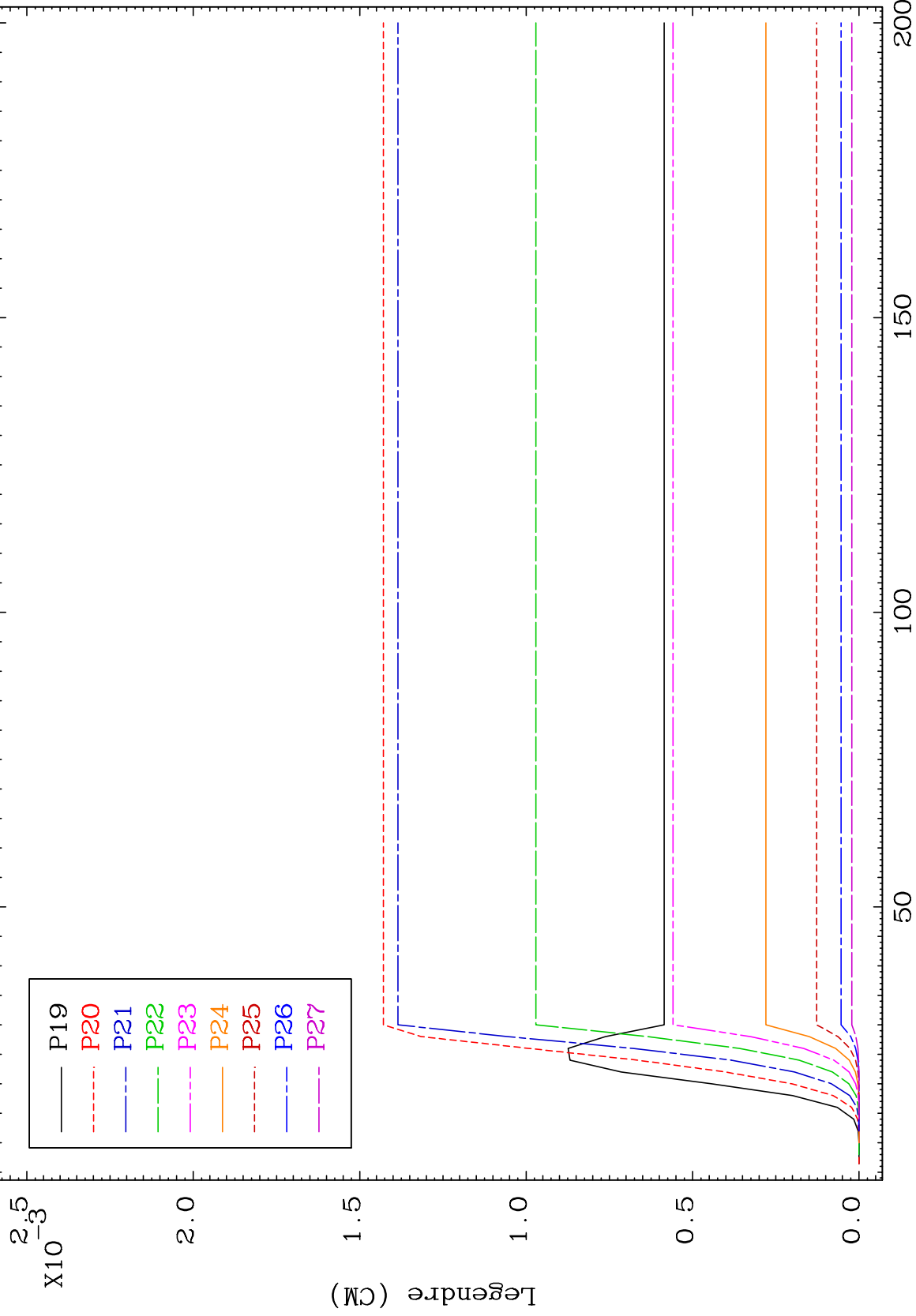
64



MAT 6895

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

69-Tm-159



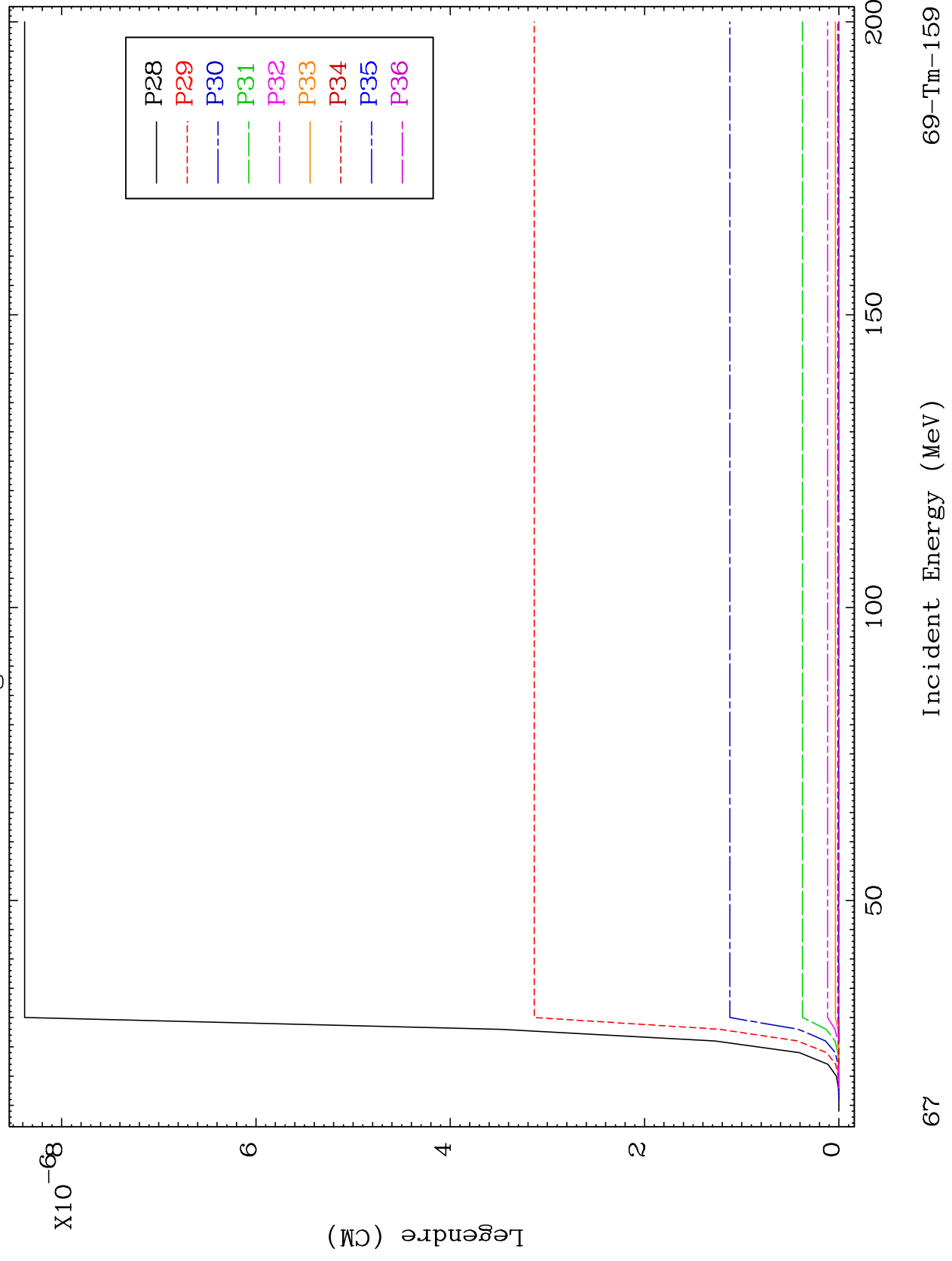
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69-Tm-159

MAT 6895

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

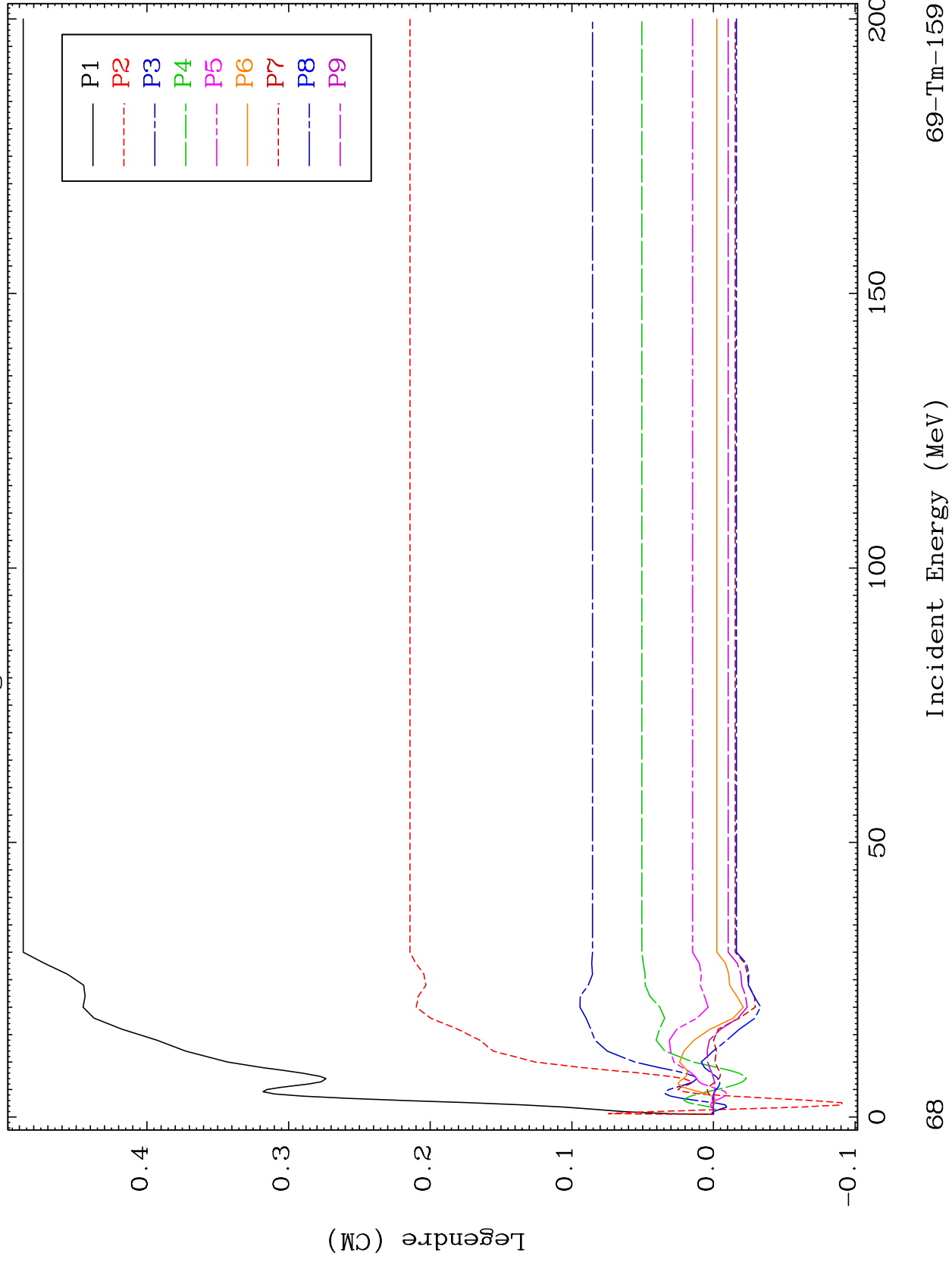
69-Tm-159



MAT 6895

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

69-Tm-159



69-Tm-159

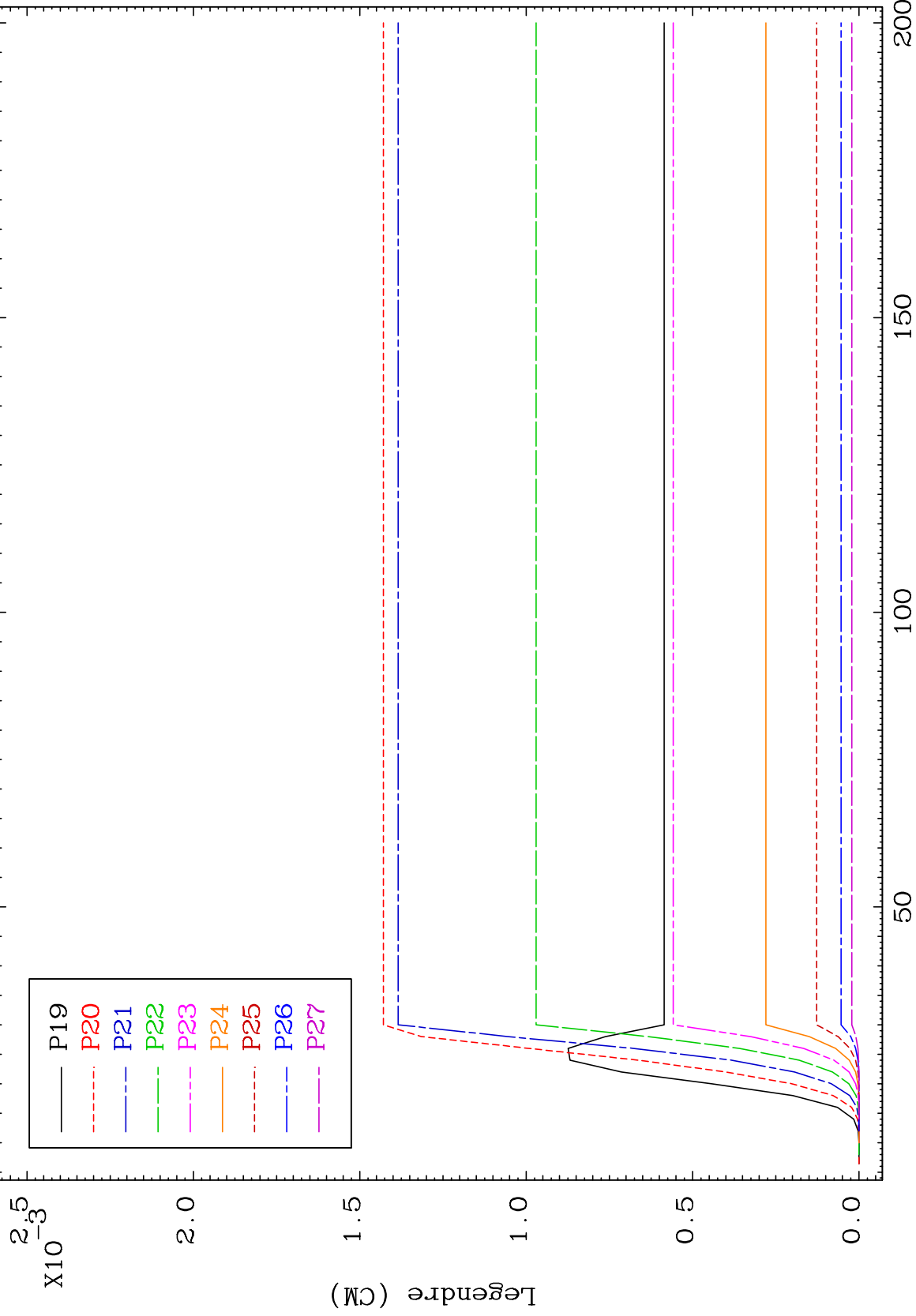
Incident Energy (MeV)

68

MAT 6895

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

69-Tm-159



70

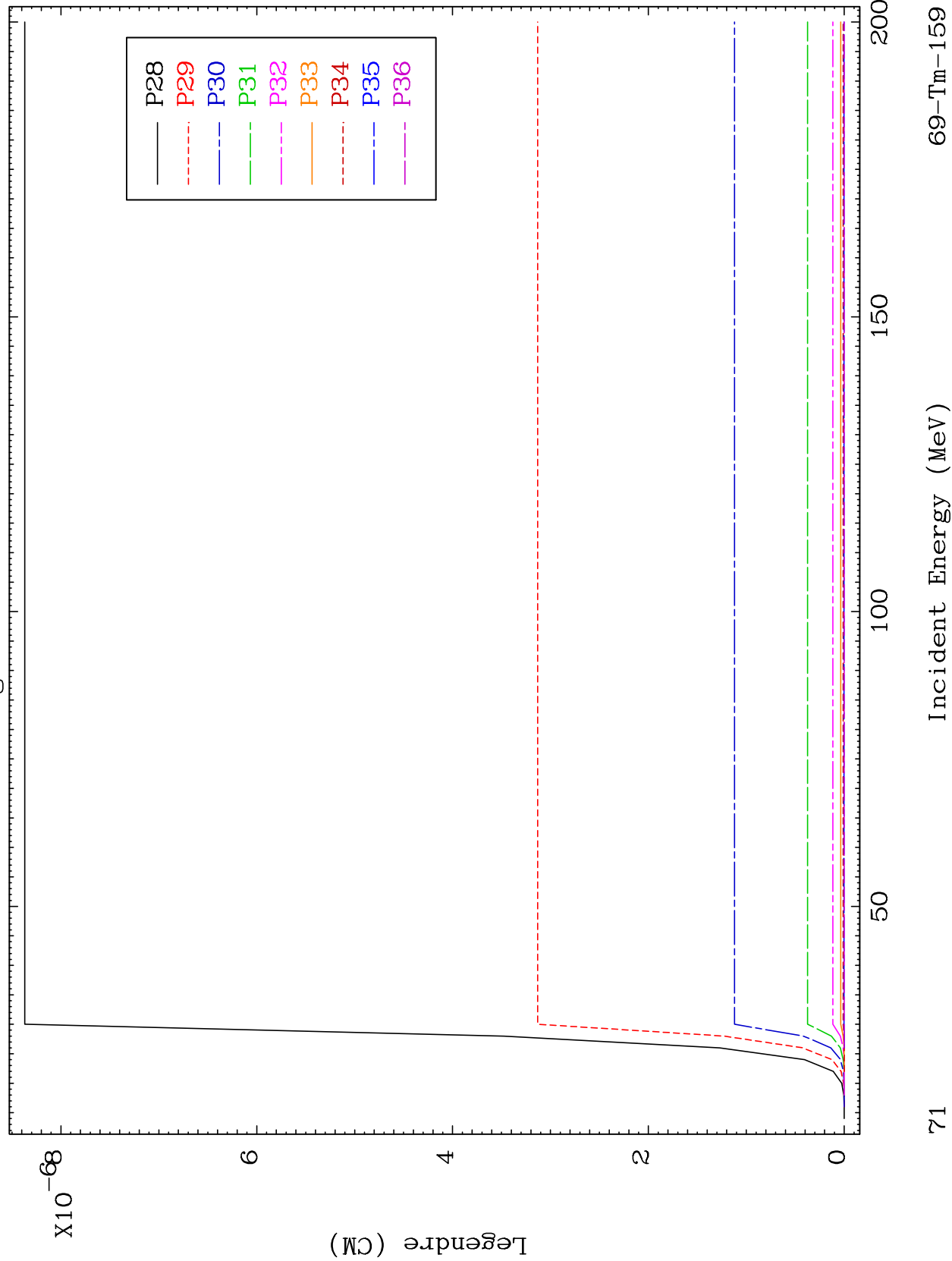
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

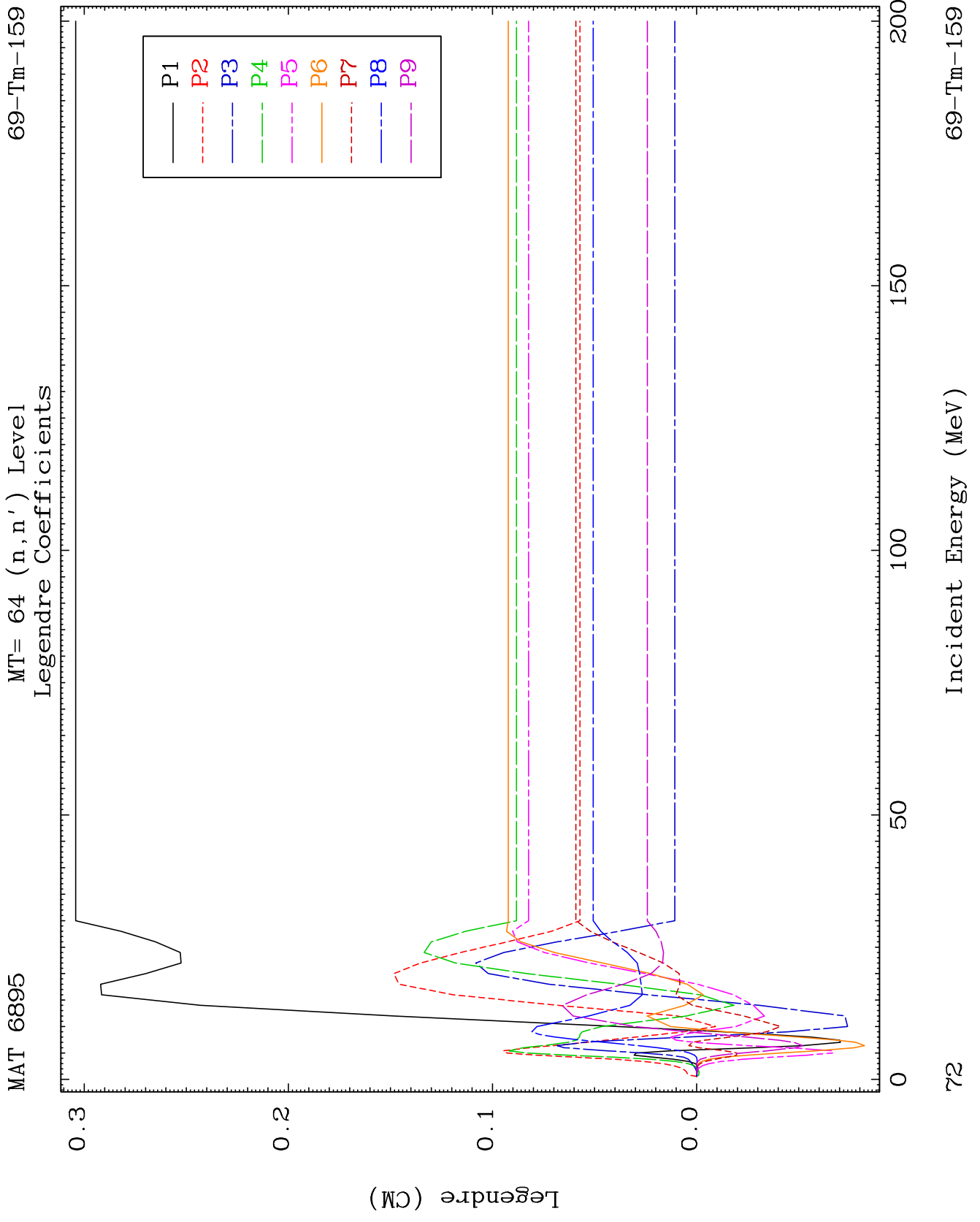
69-Tm-159



71

Incident Energy (MeV)

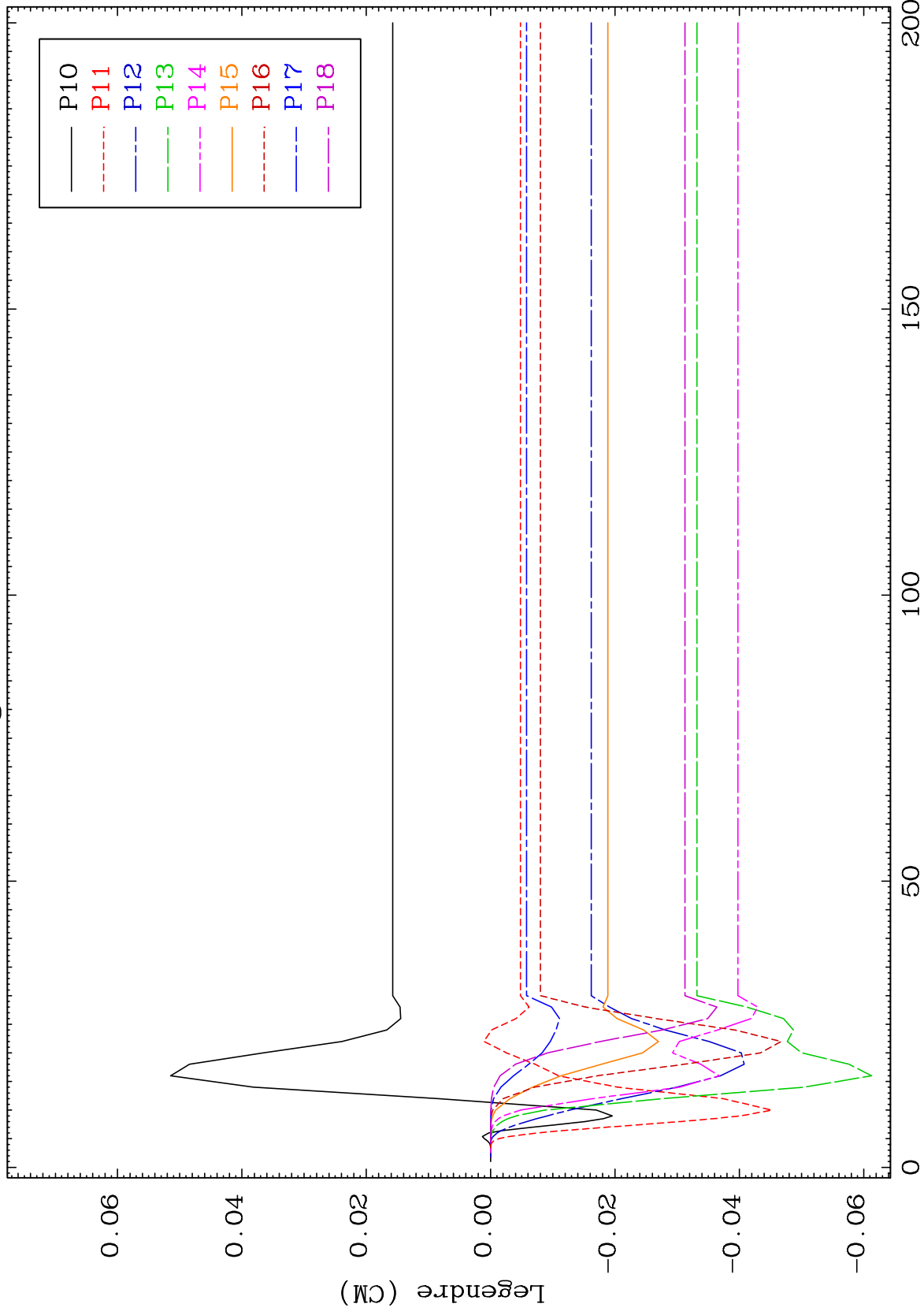
69-Tm-159



MAT 6895

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

69-Tm-159



73

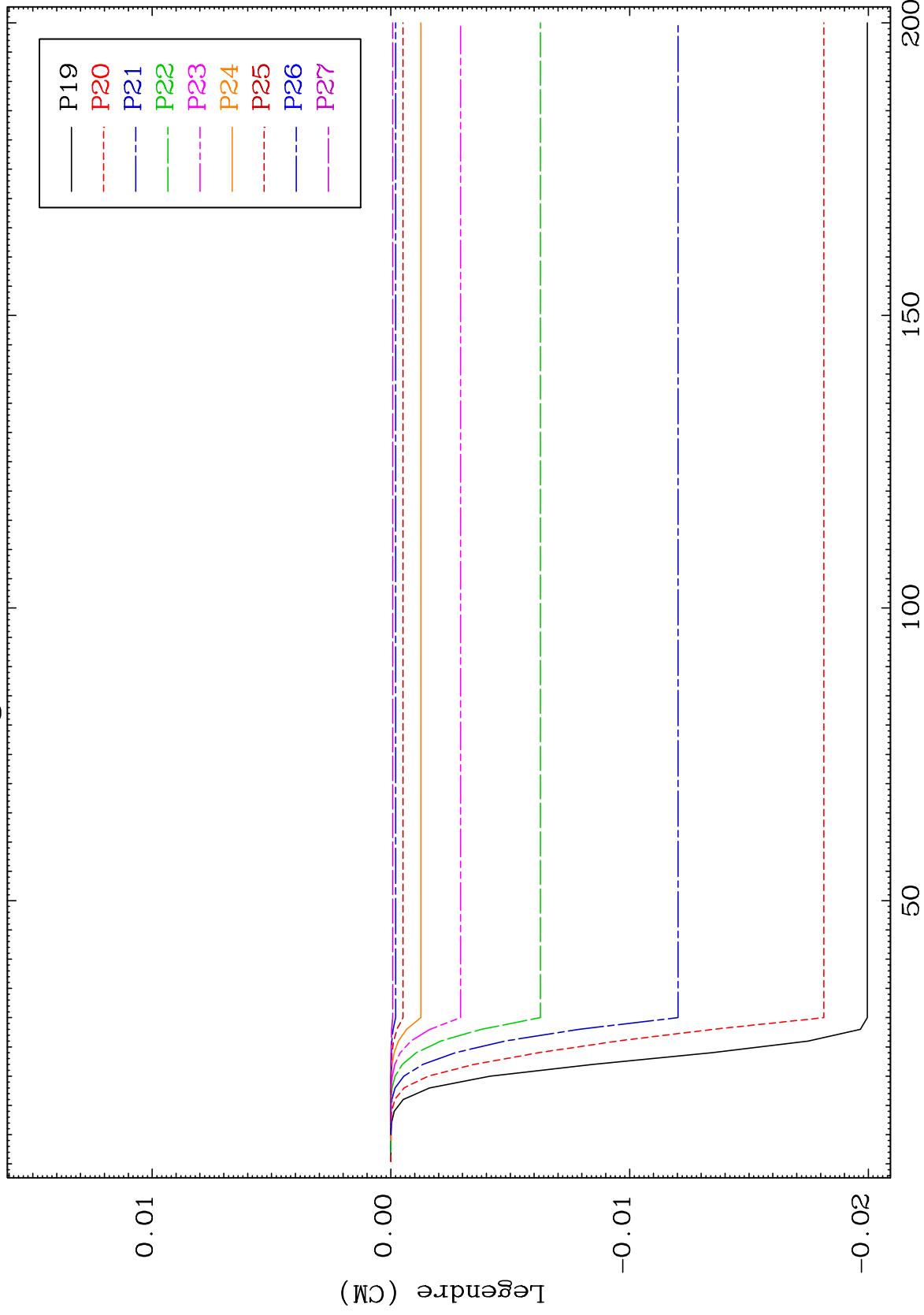
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

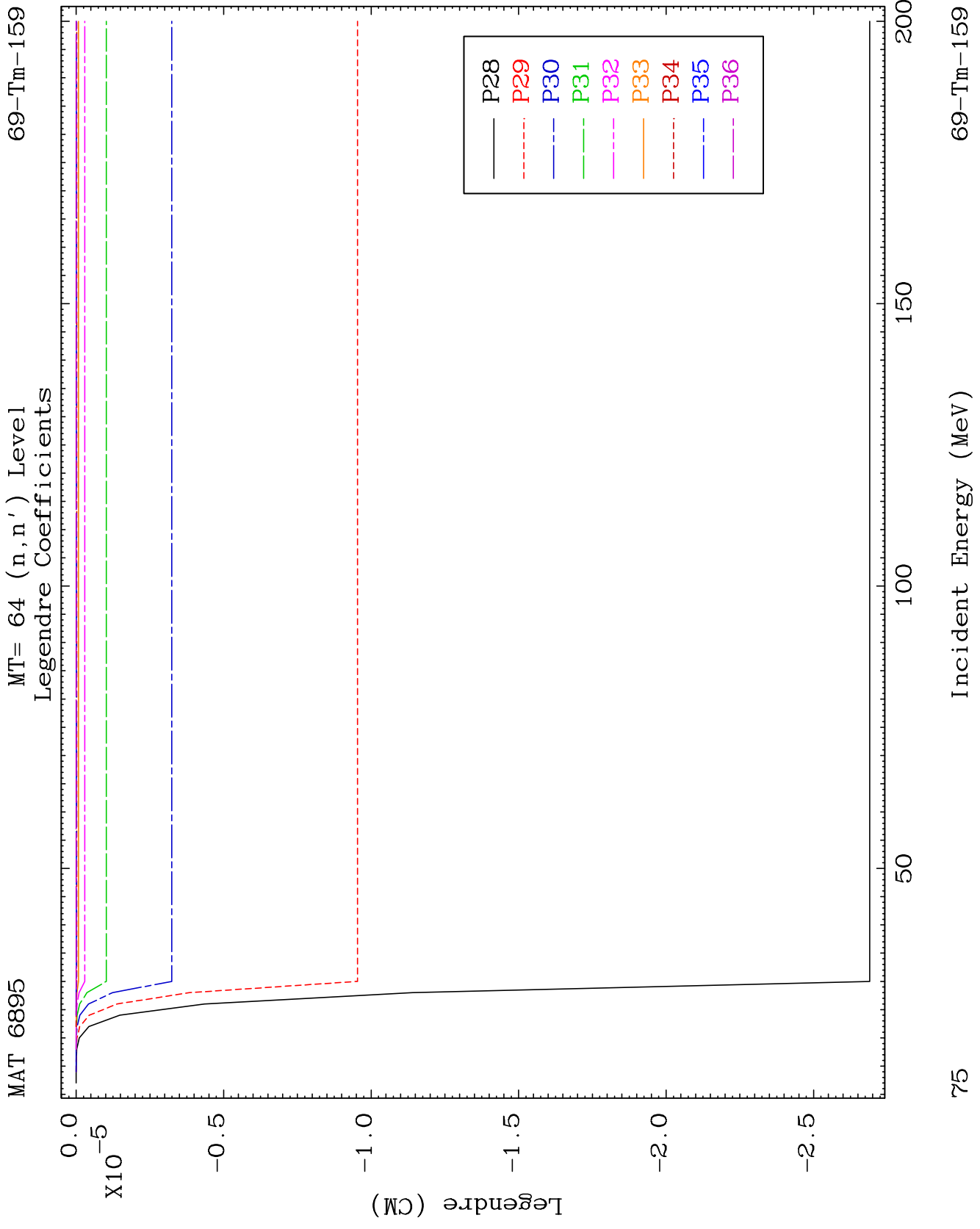
69-Tm-159

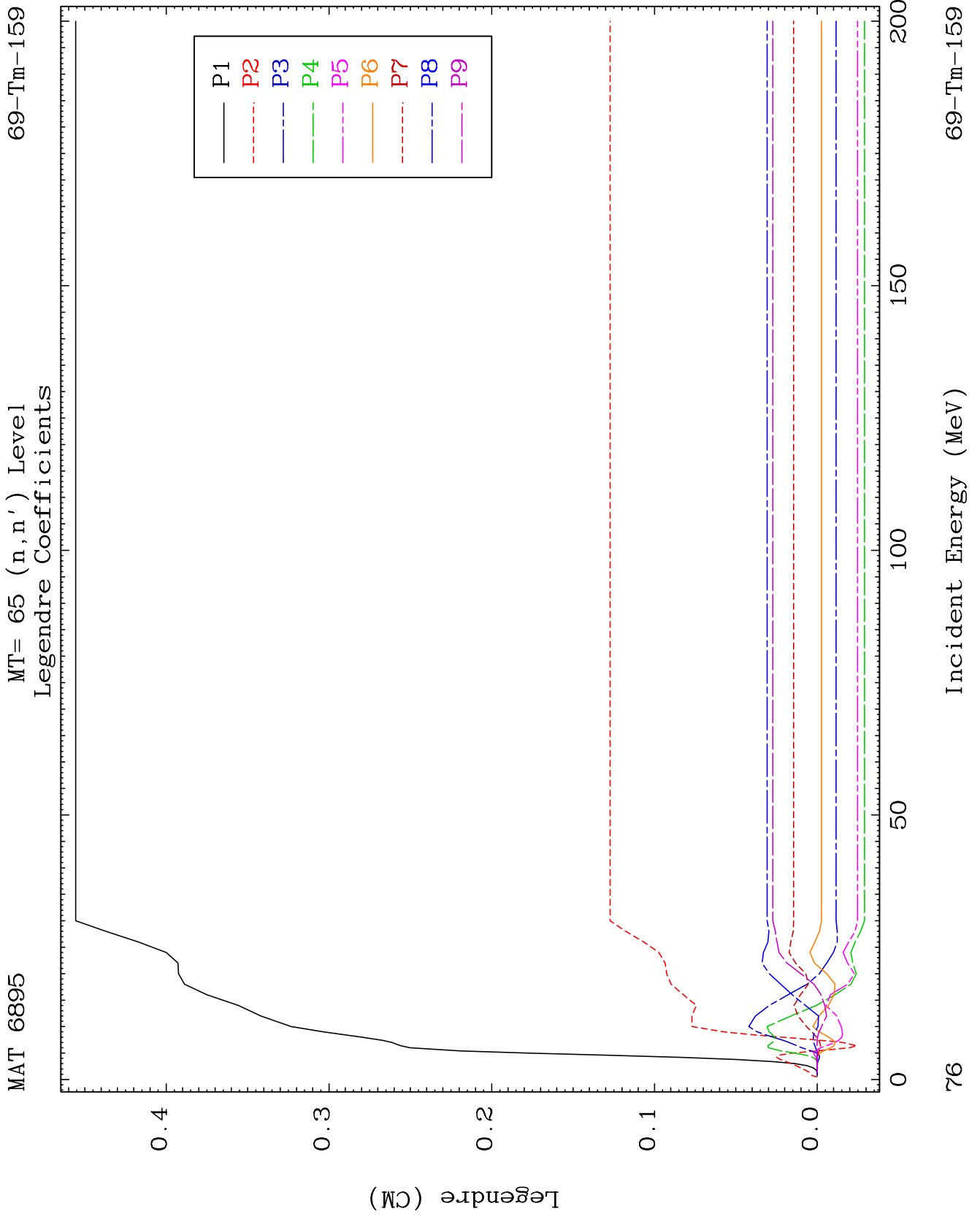


74

Incident Energy (MeV)

69-Tm-159

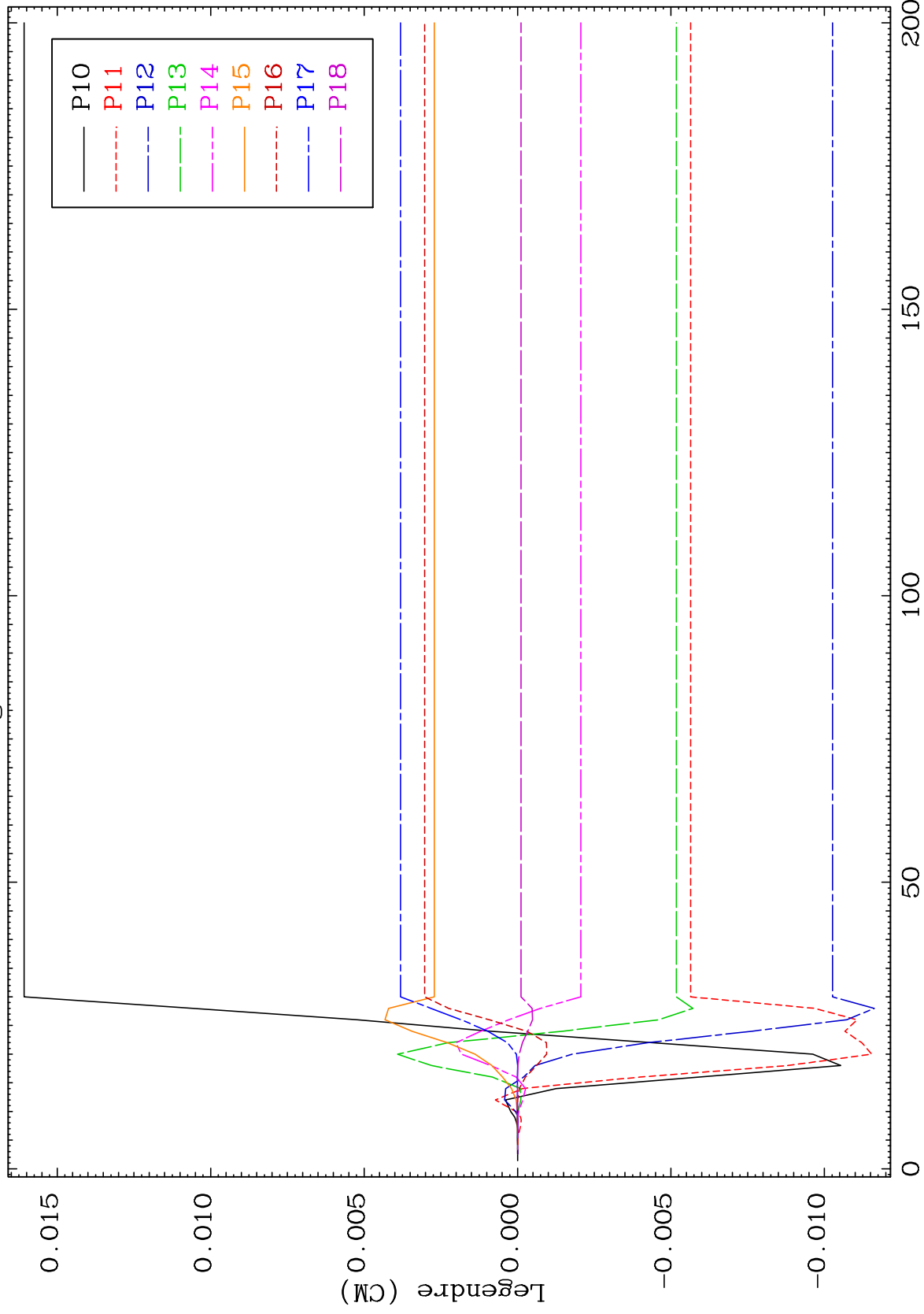




MAT 6895

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

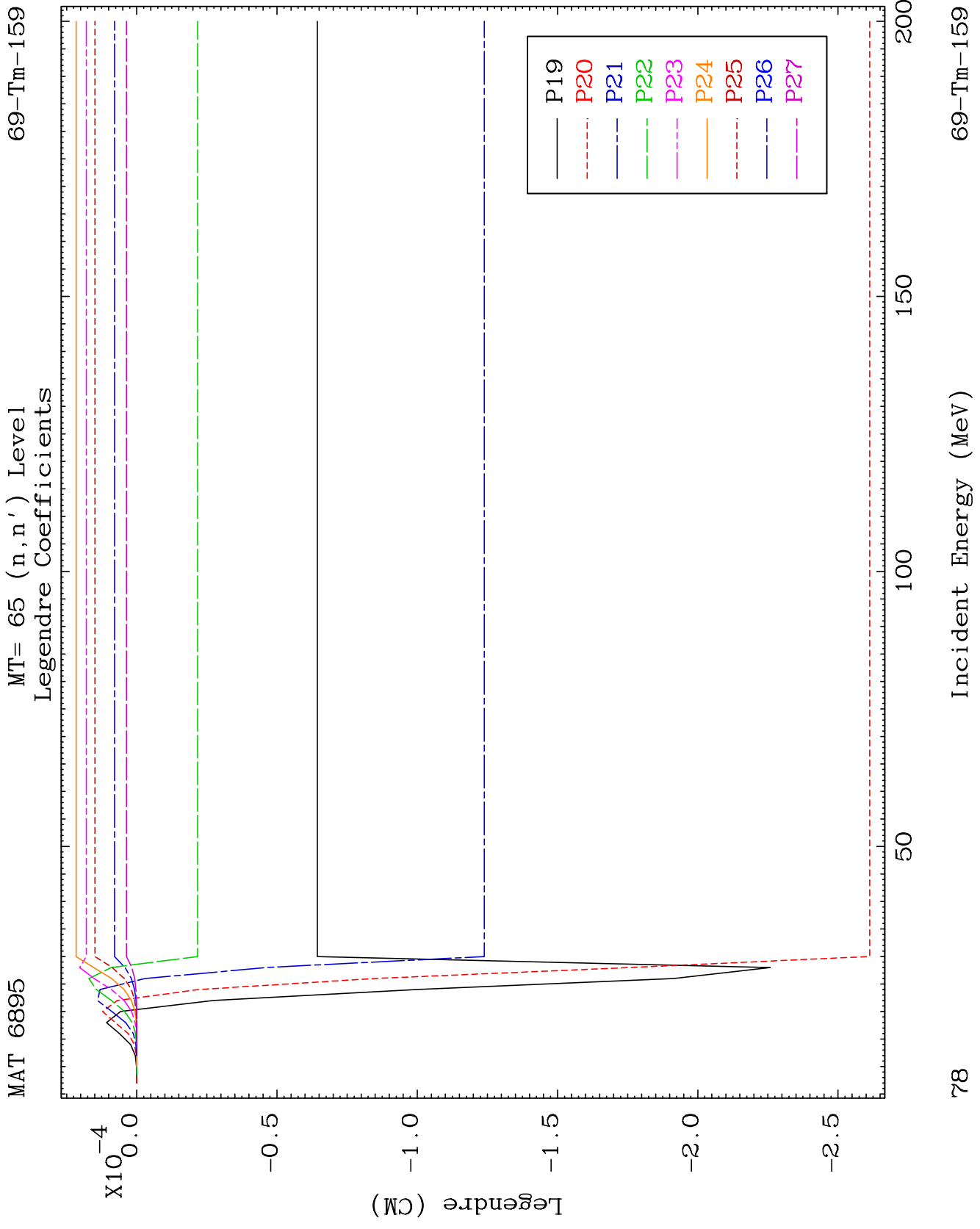
69-Tm-159



77

Incident Energy (MeV)

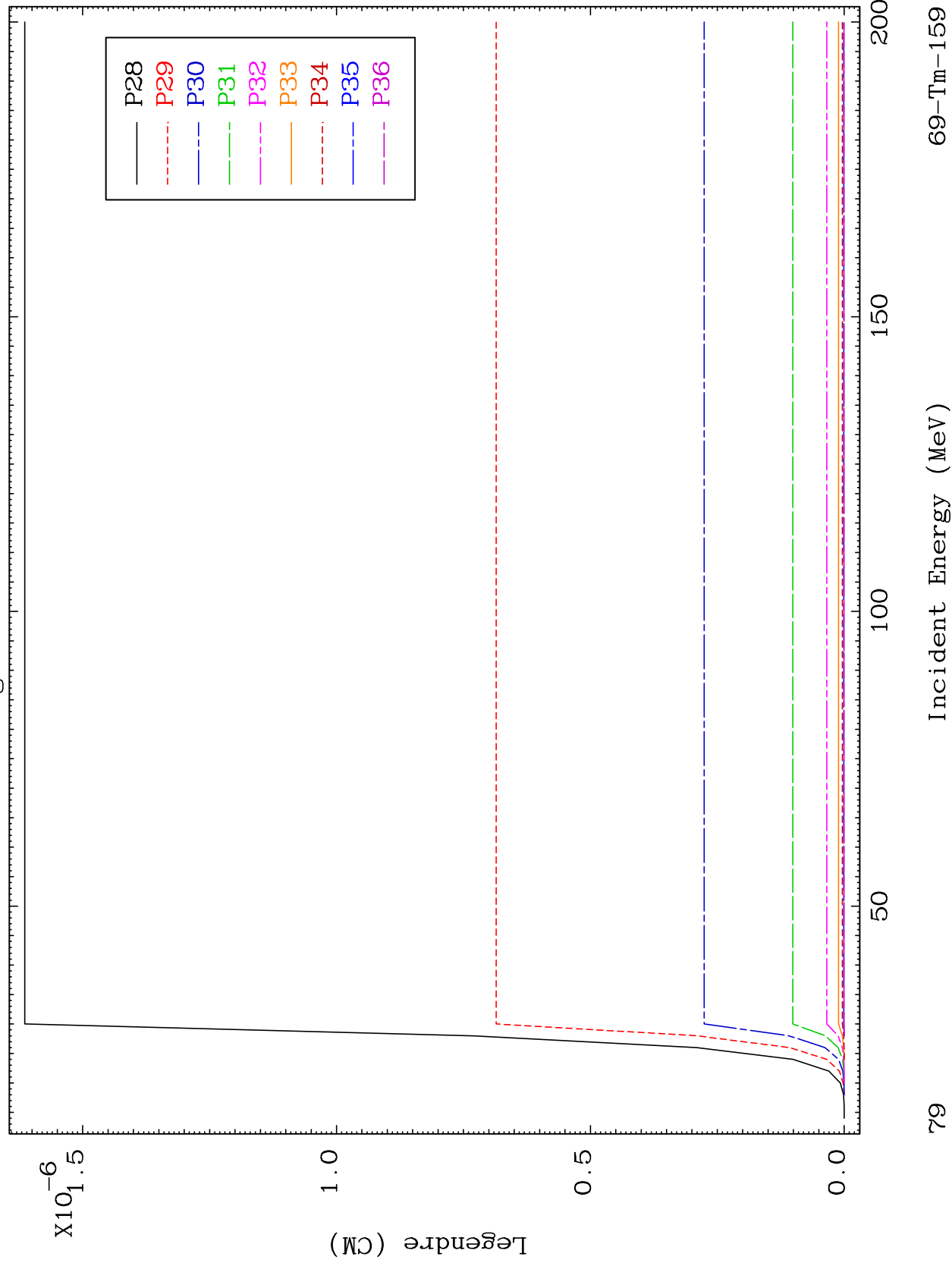
69-Tm-159



MAT 6895

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

69-Tm-159



79

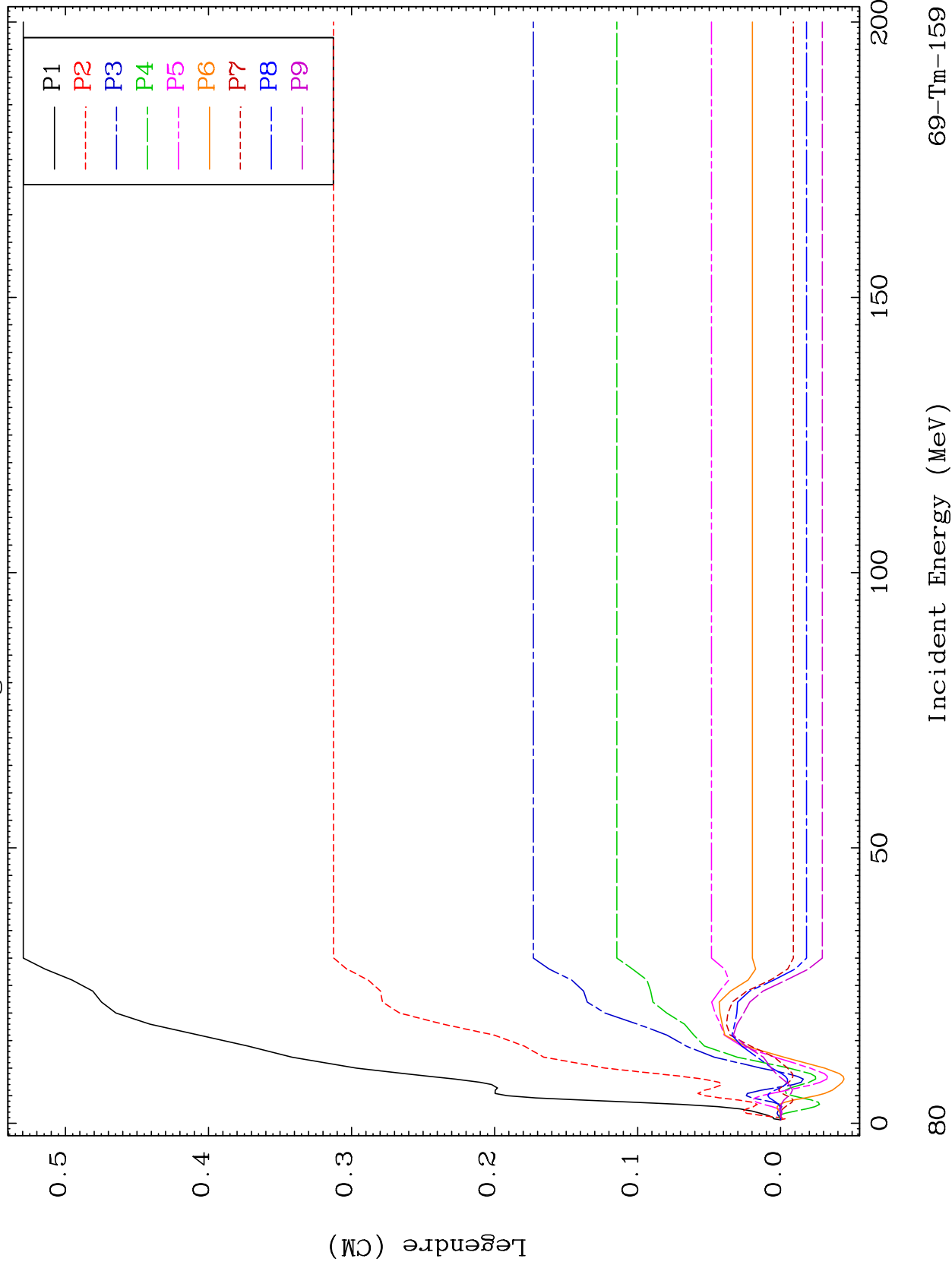
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



69-Tm-159

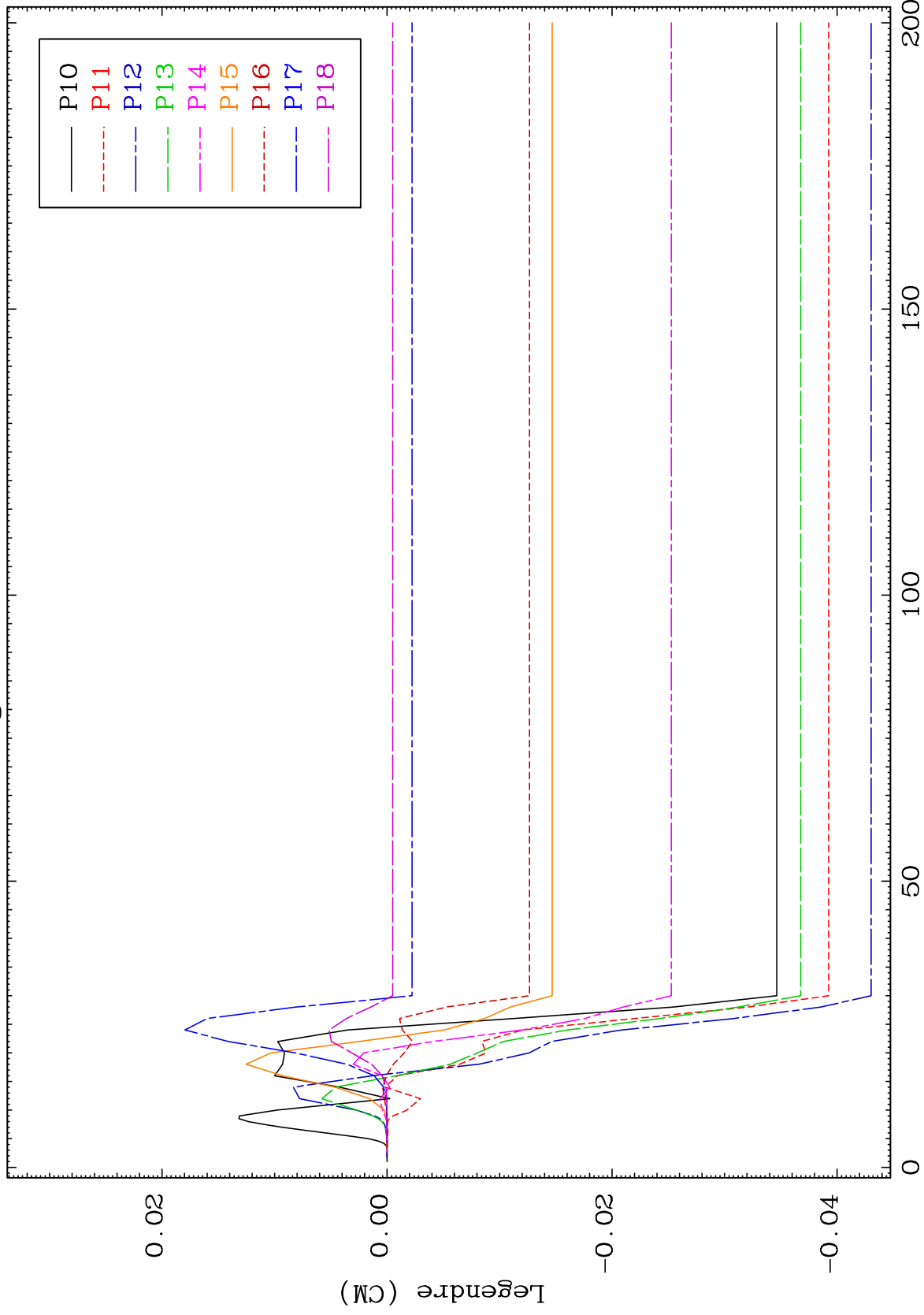
Incident Energy (MeV)

80

MAT 6895

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

69-Tm-159



81

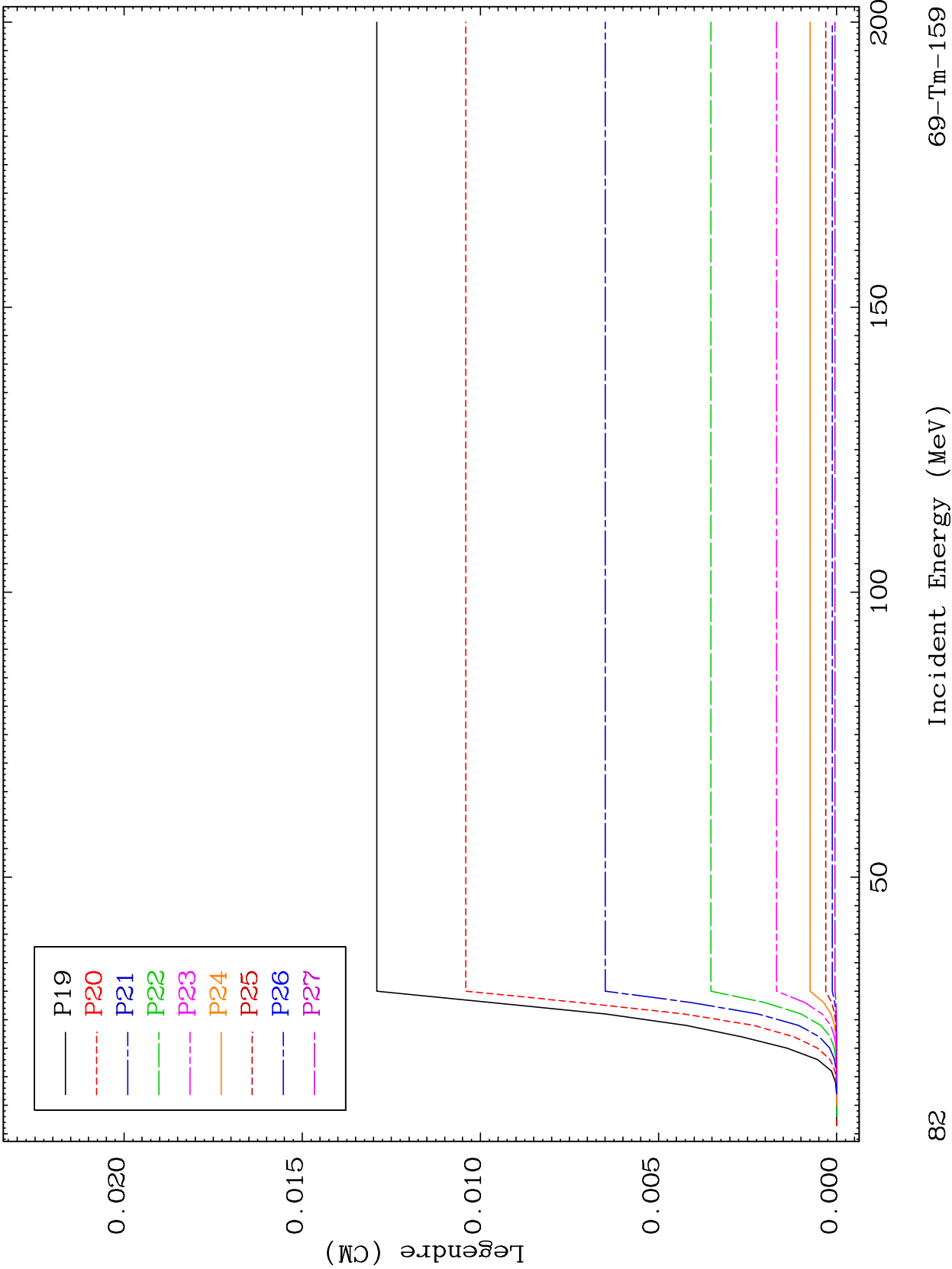
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



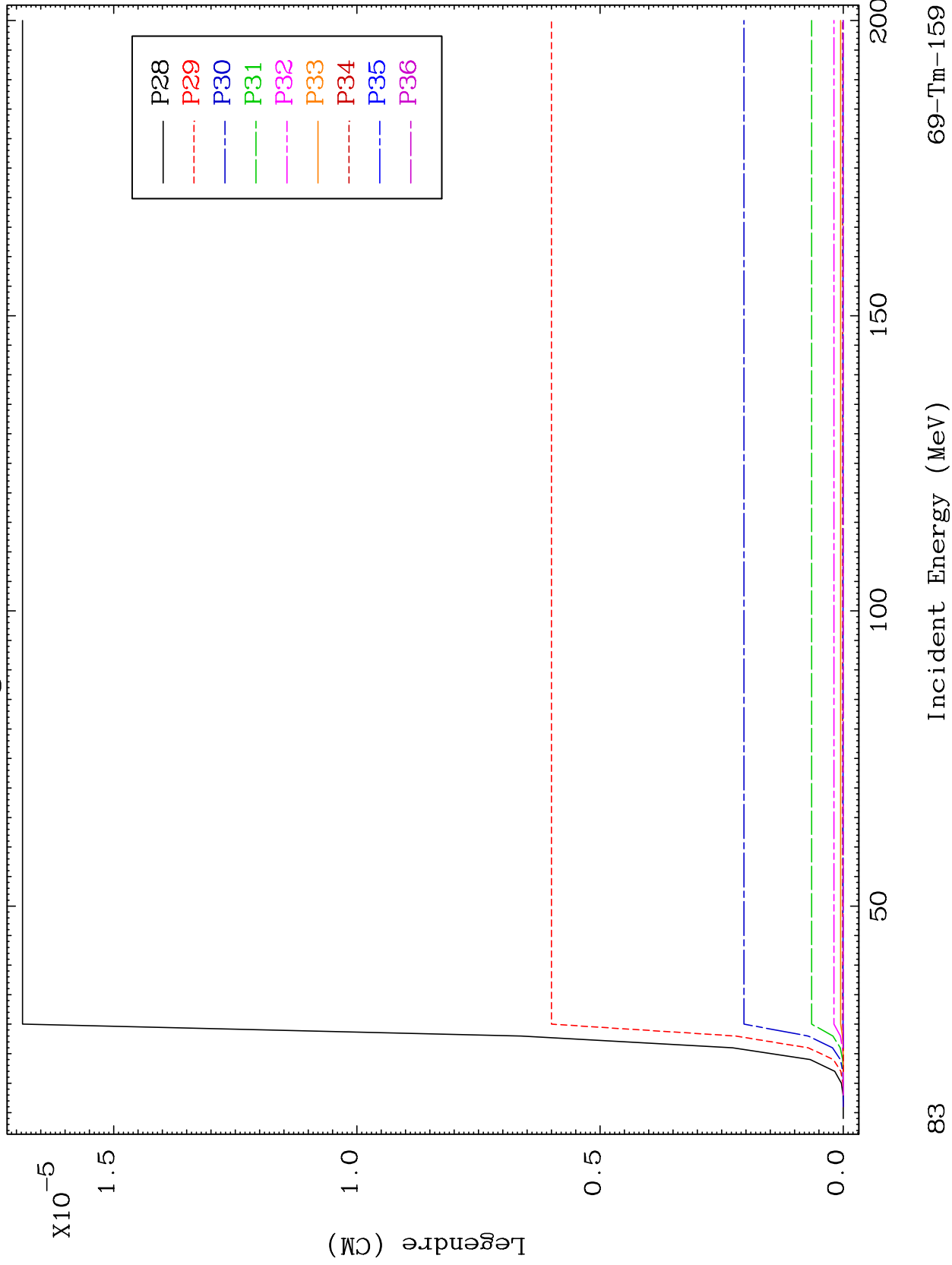
82

69-Tm-159

MAT 6895

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

69-Tm-159



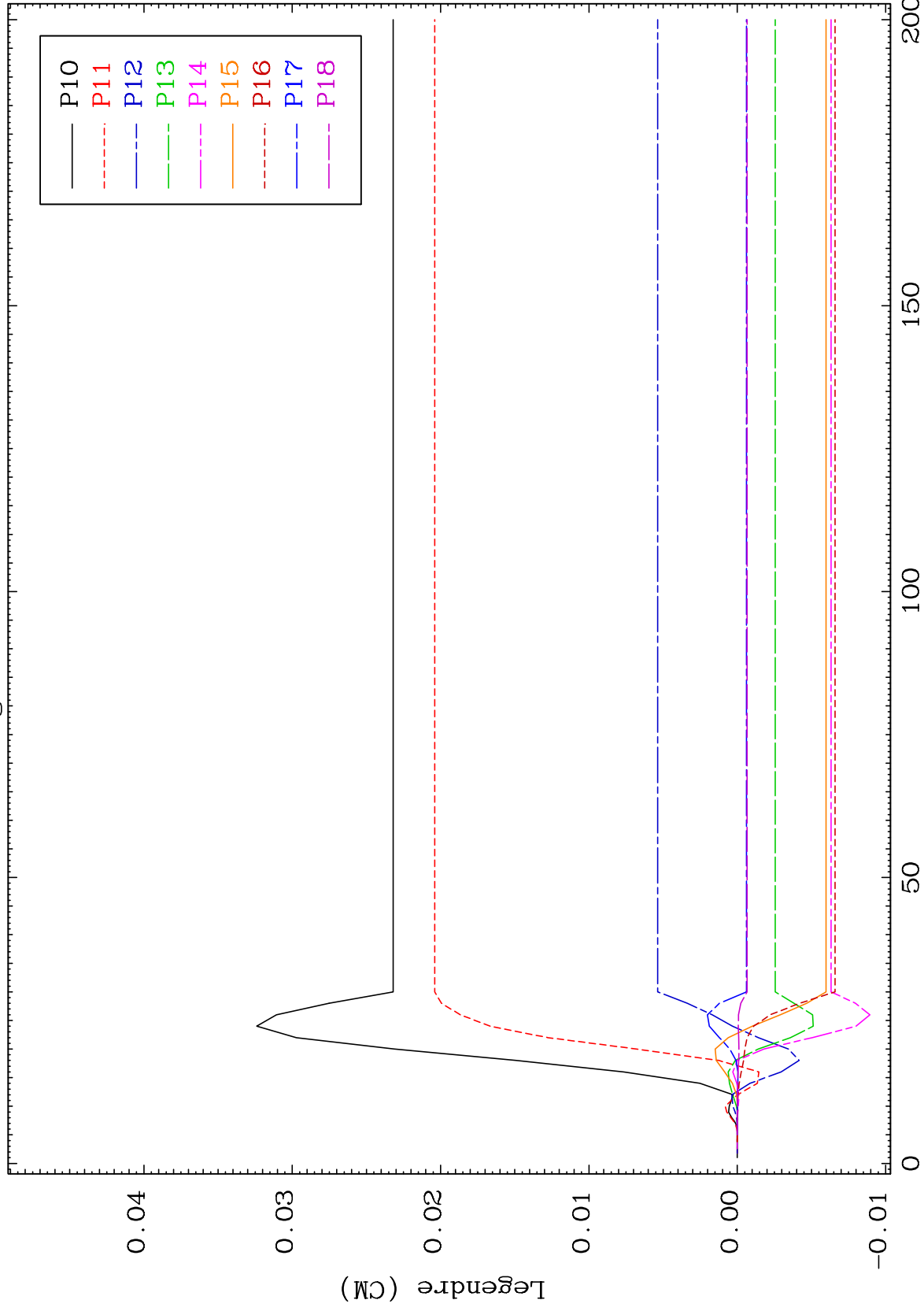
83

69-Tm-159

MAT 6895

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

69-Tm-159



69-Tm-159

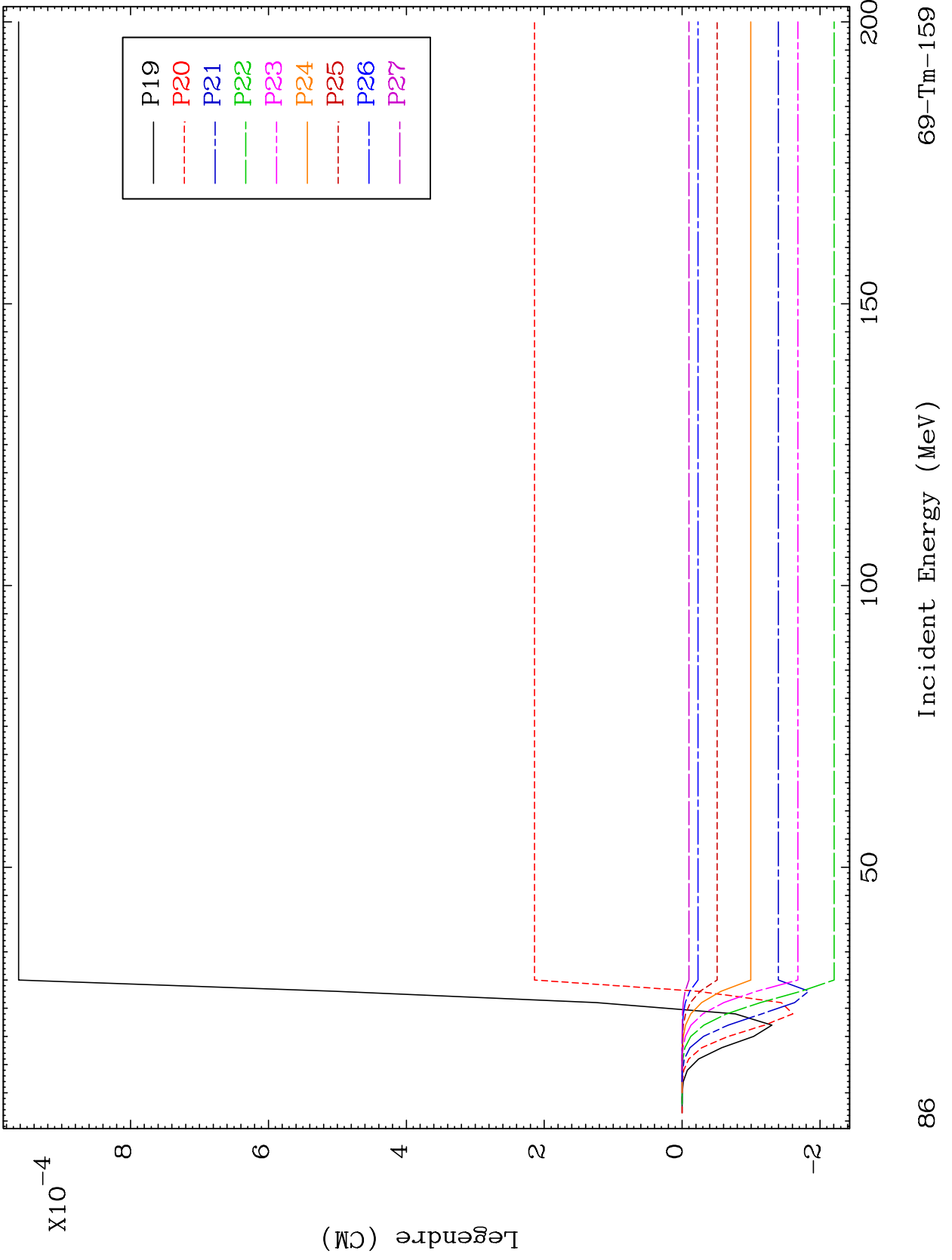
Incident Energy (MeV)

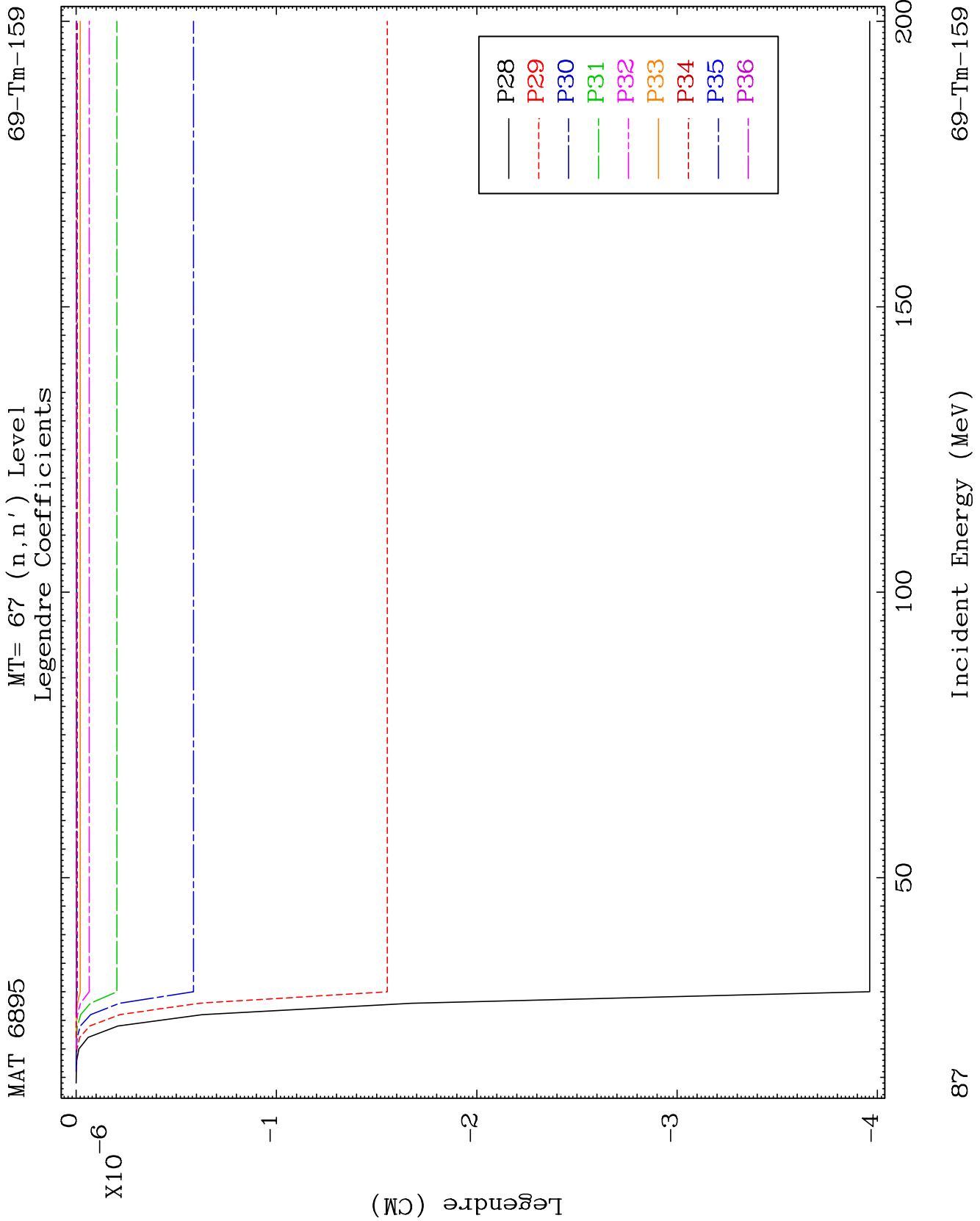
85

MAT 6895

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

69-Tm-159

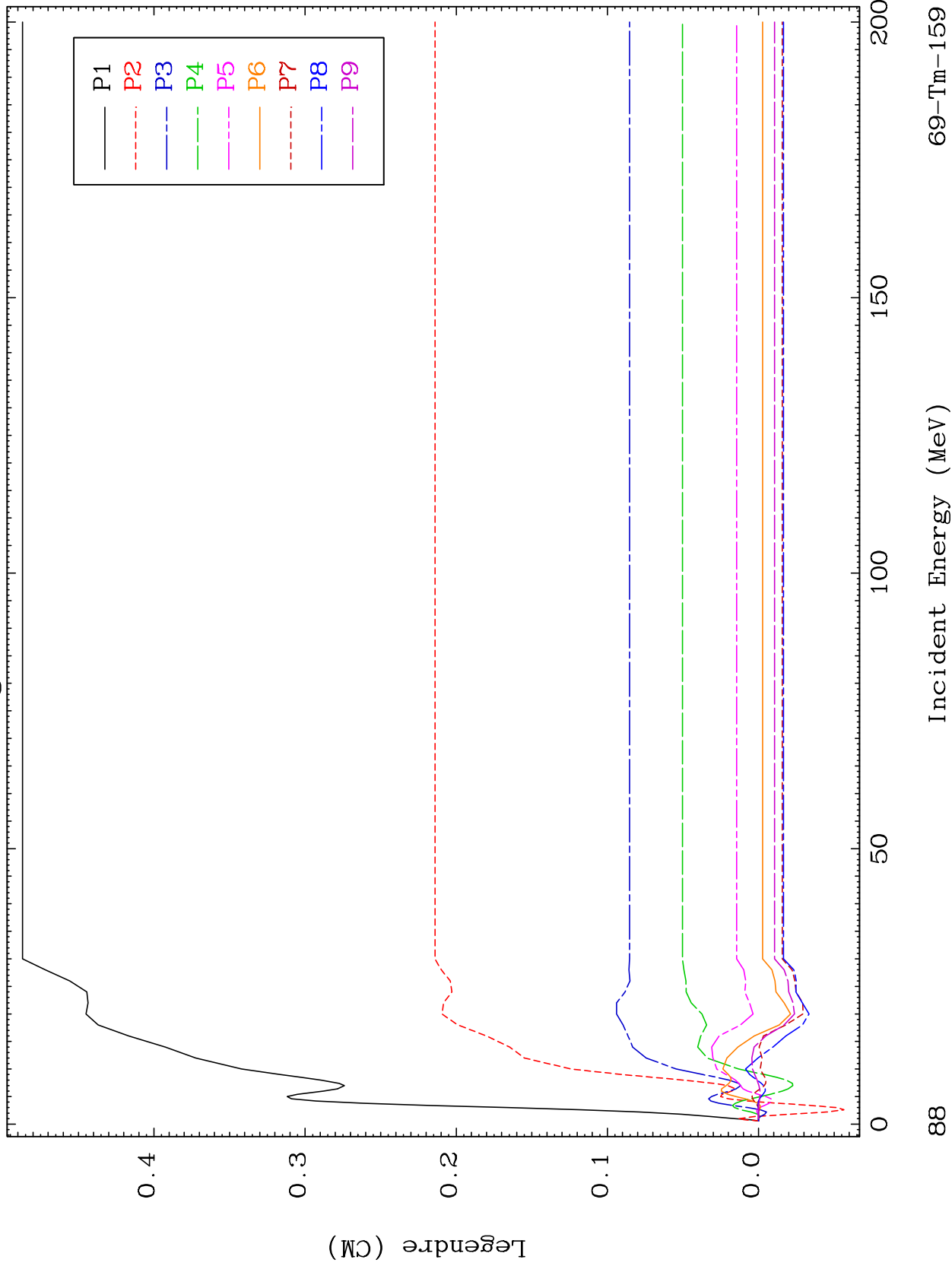




MAT 6895

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

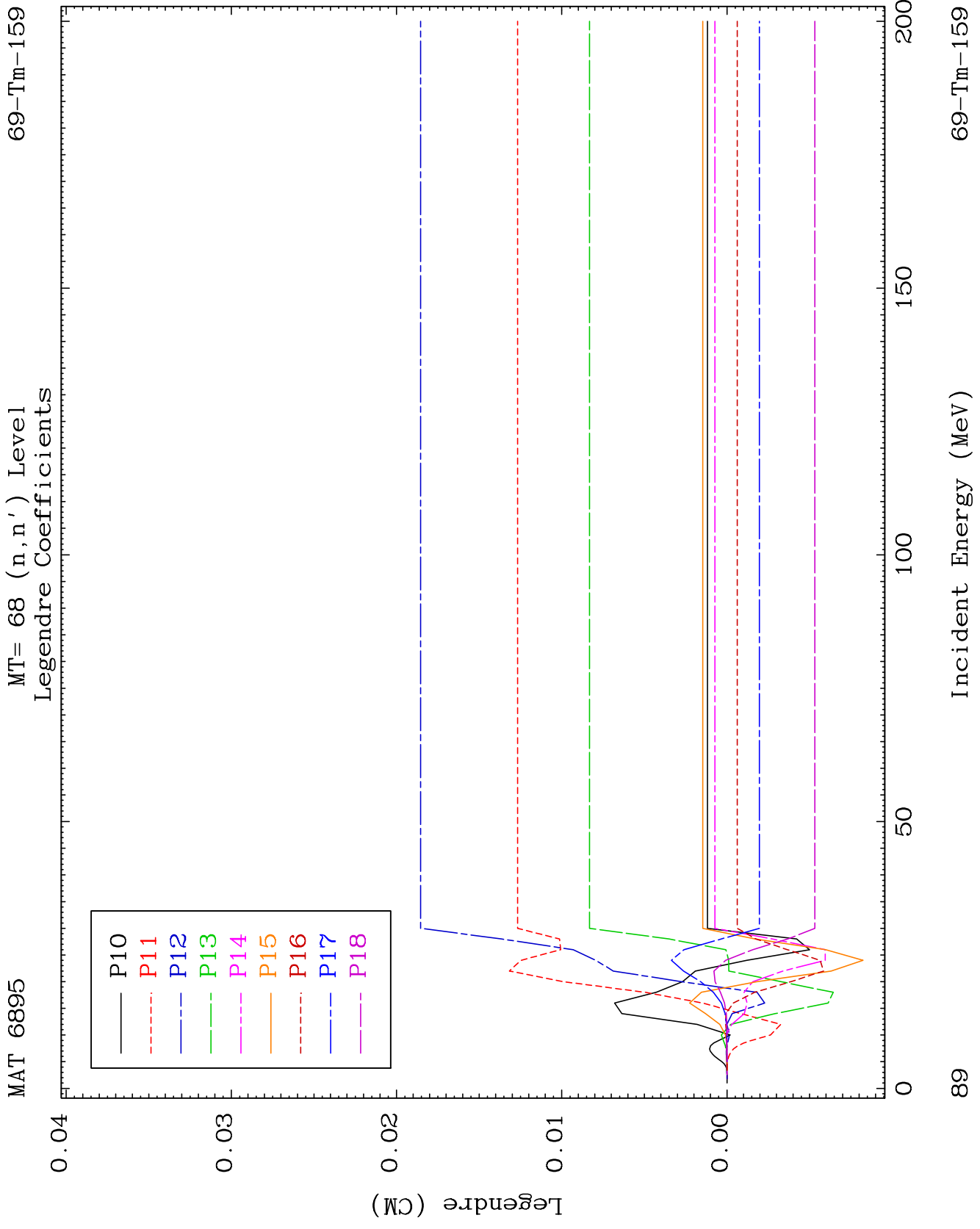
69-Tm-159



88

Incident Energy (MeV)

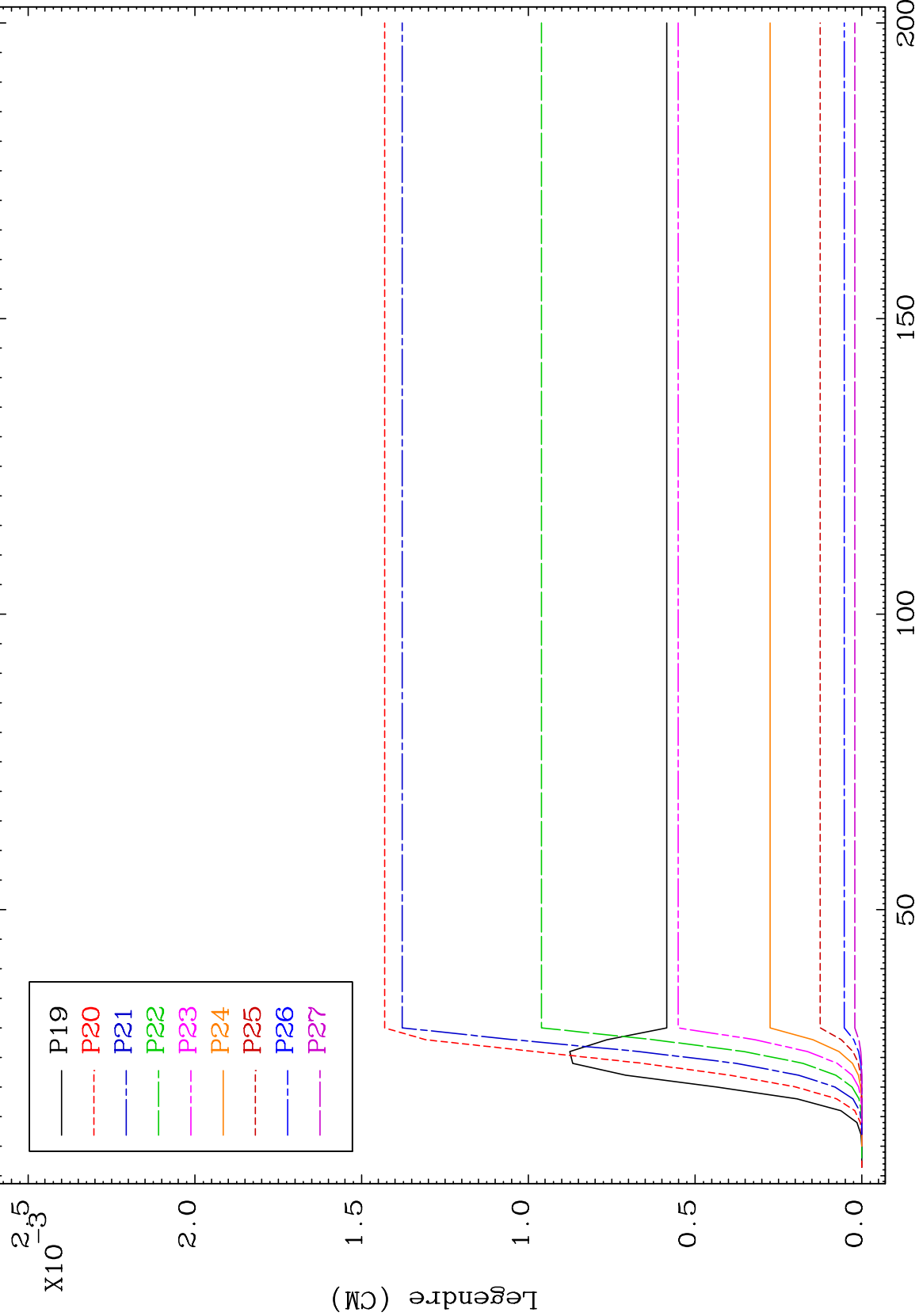
69-Tm-159



MAT 6895

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

69-Tm-159



90

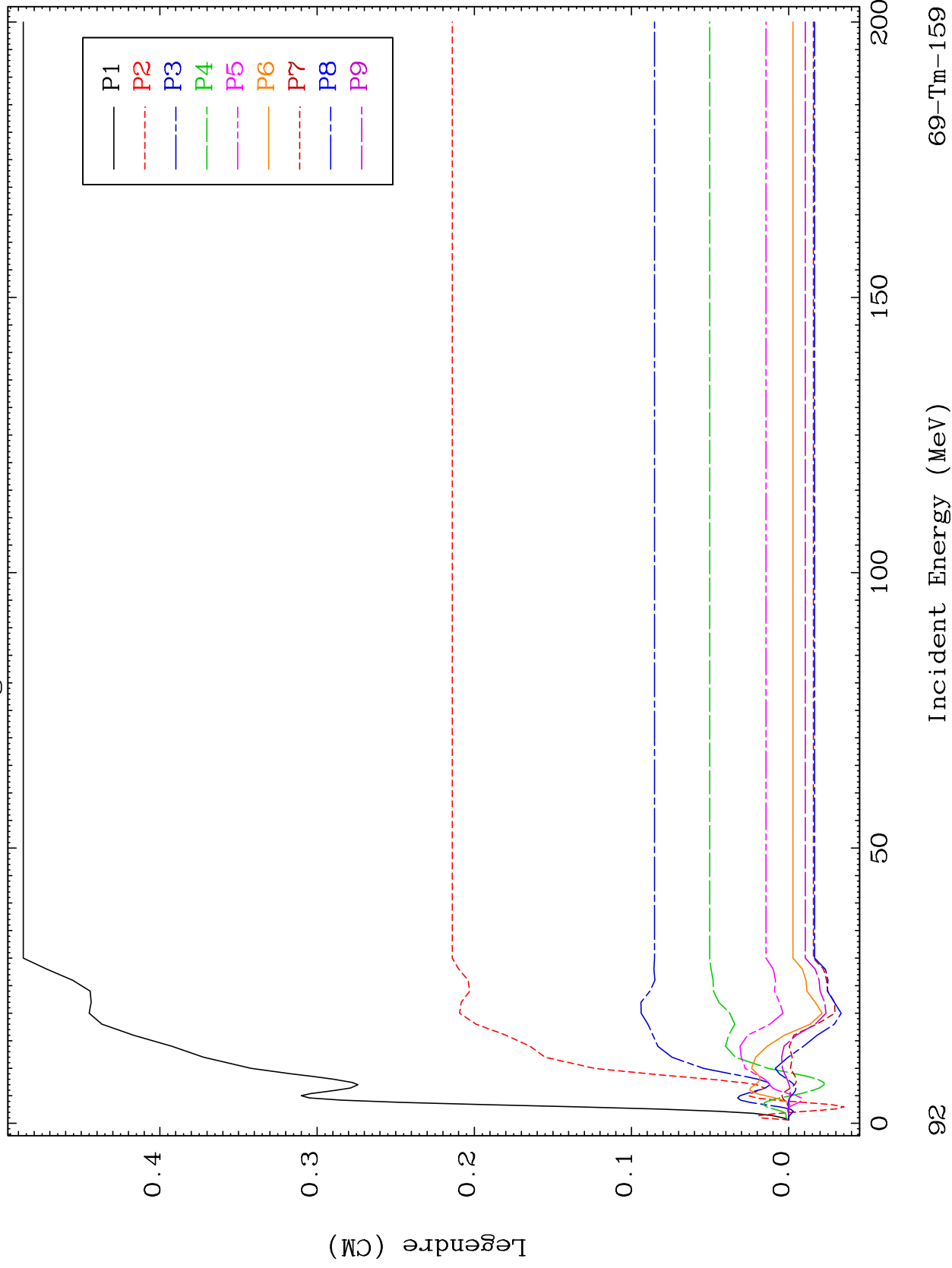
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

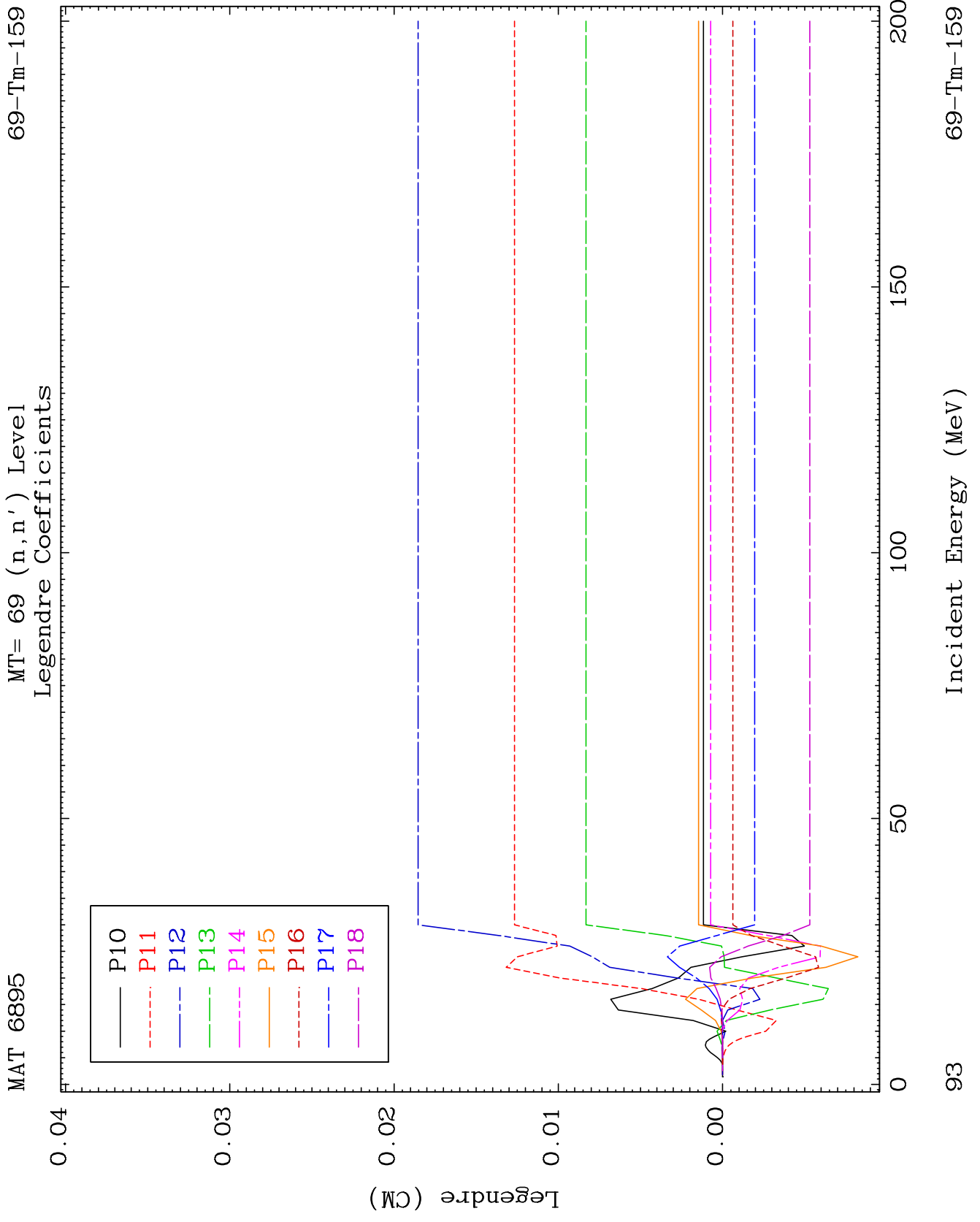
69-Tm-159



69-Tm-159

Incident Energy (MeV)

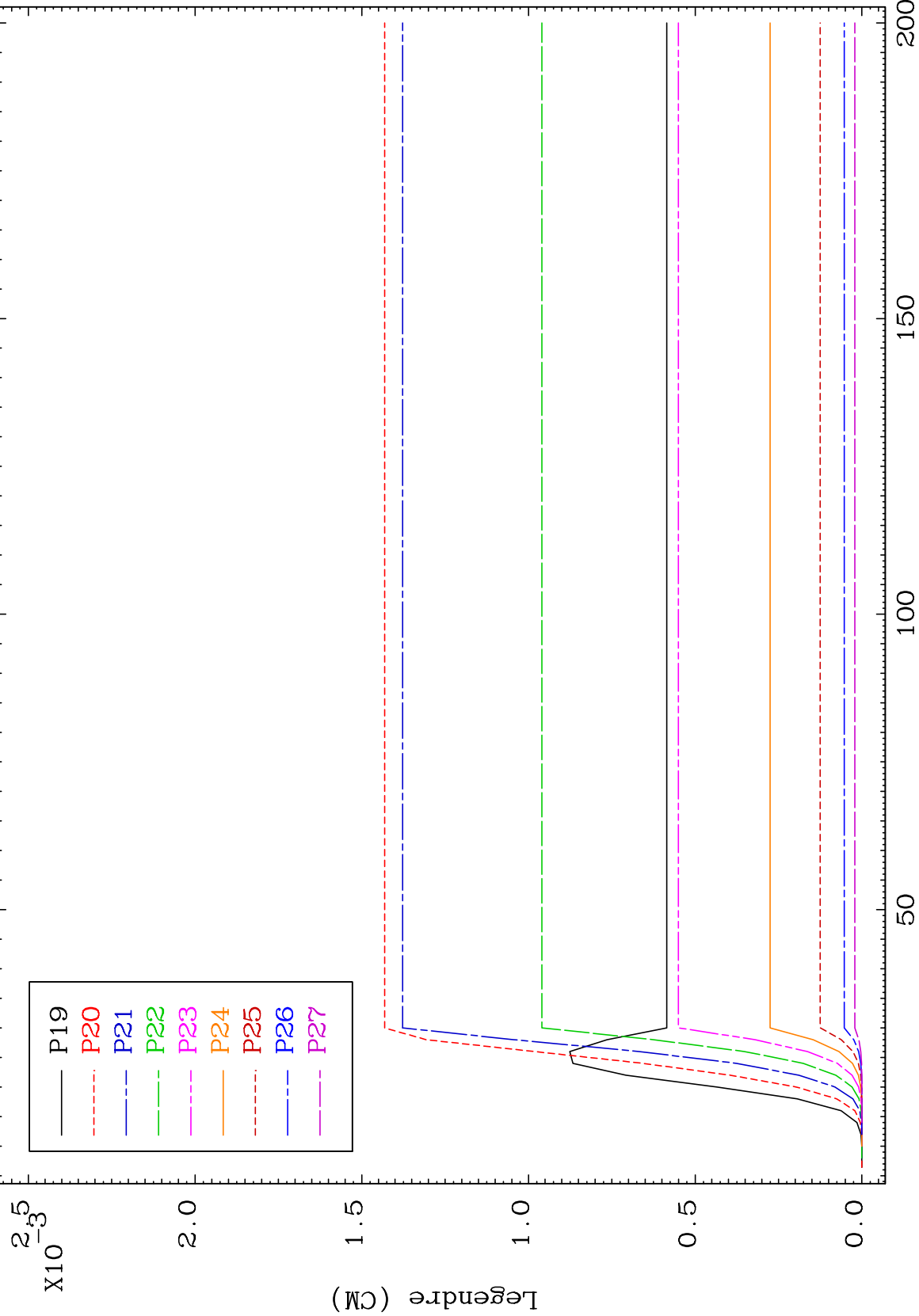
92



MAT 6895

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

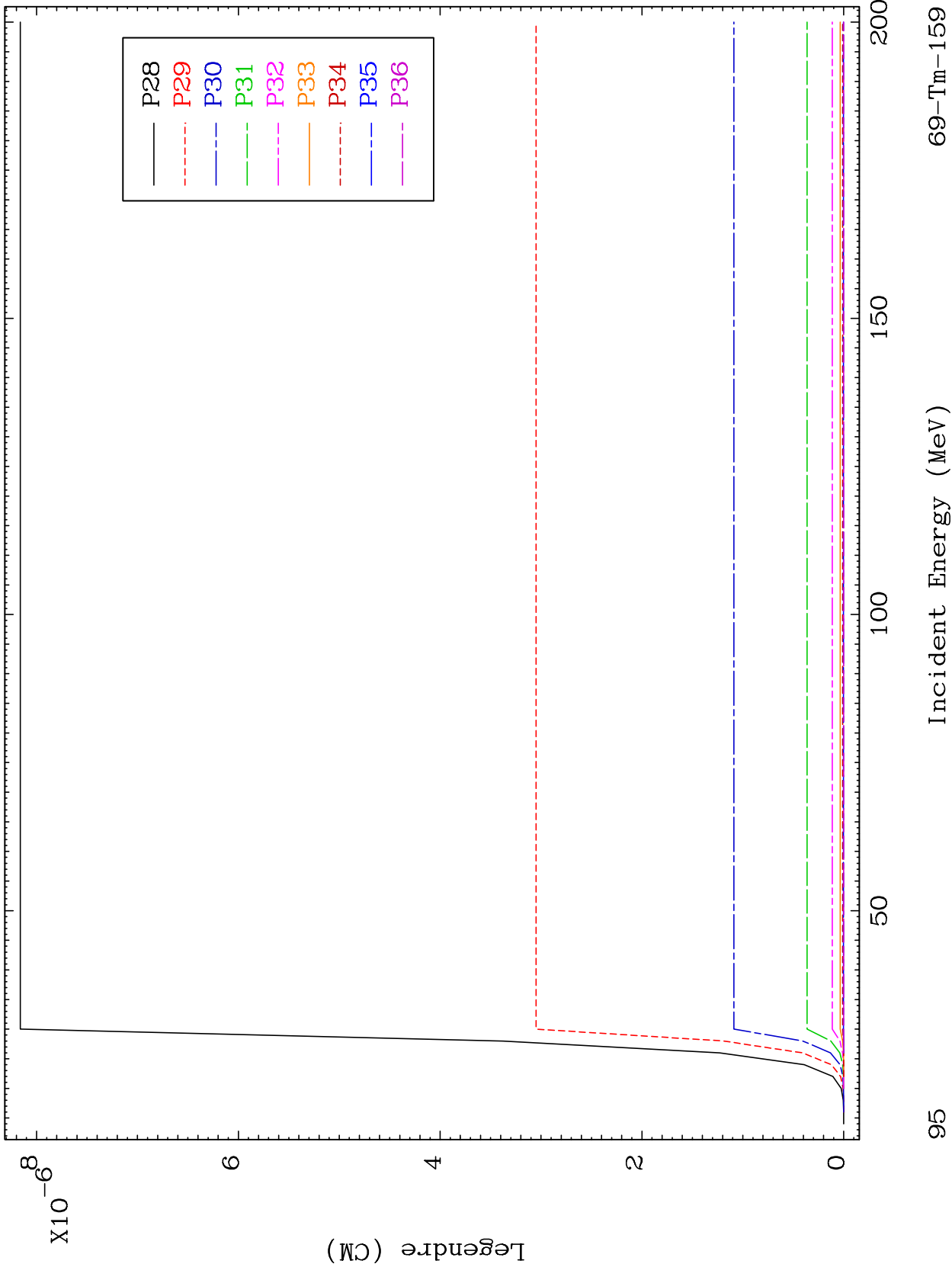
69-Tm-159



MAT 6895

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

69-Tm-159



95

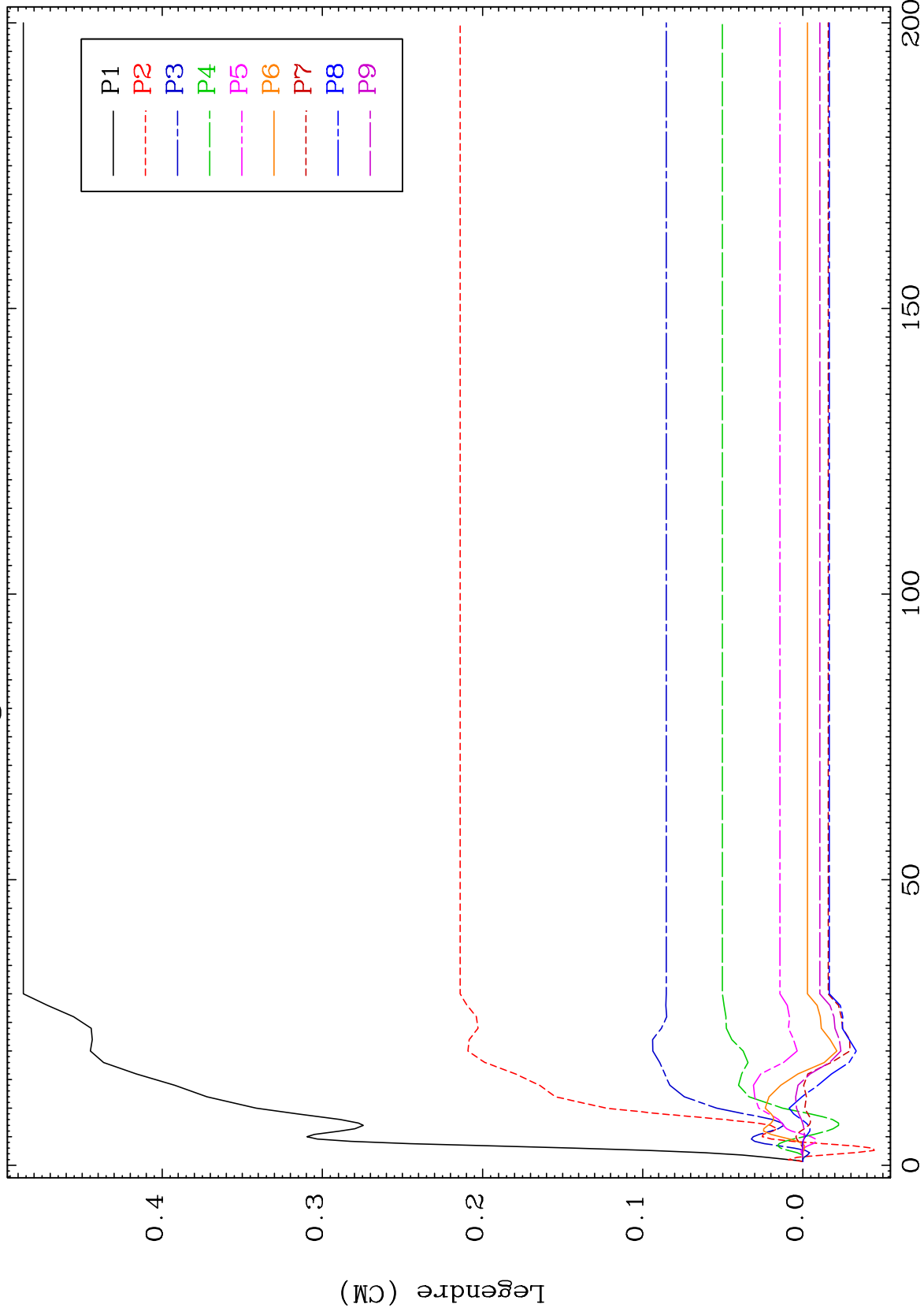
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

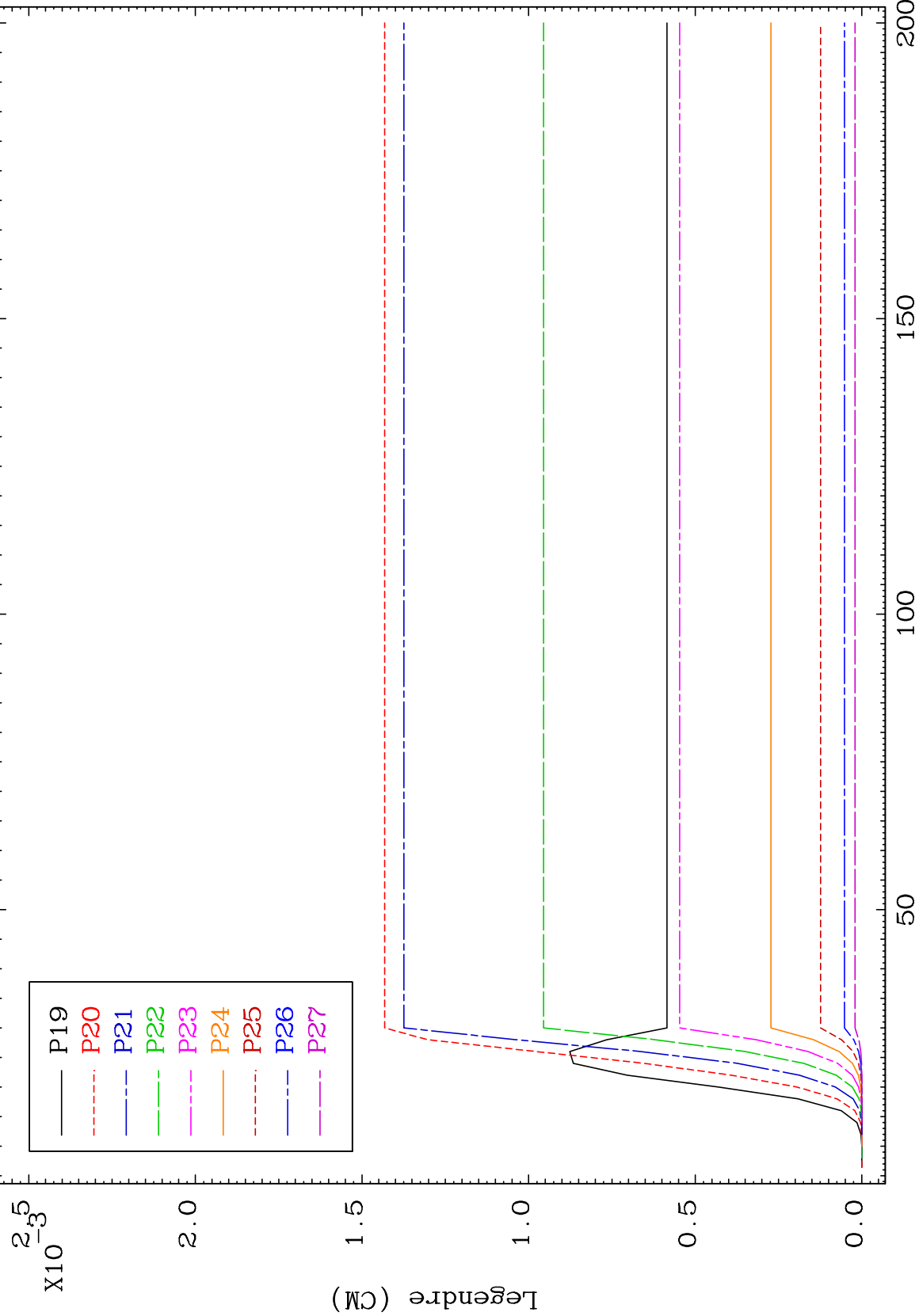
69-Tm-159



96

Incident Energy (MeV)

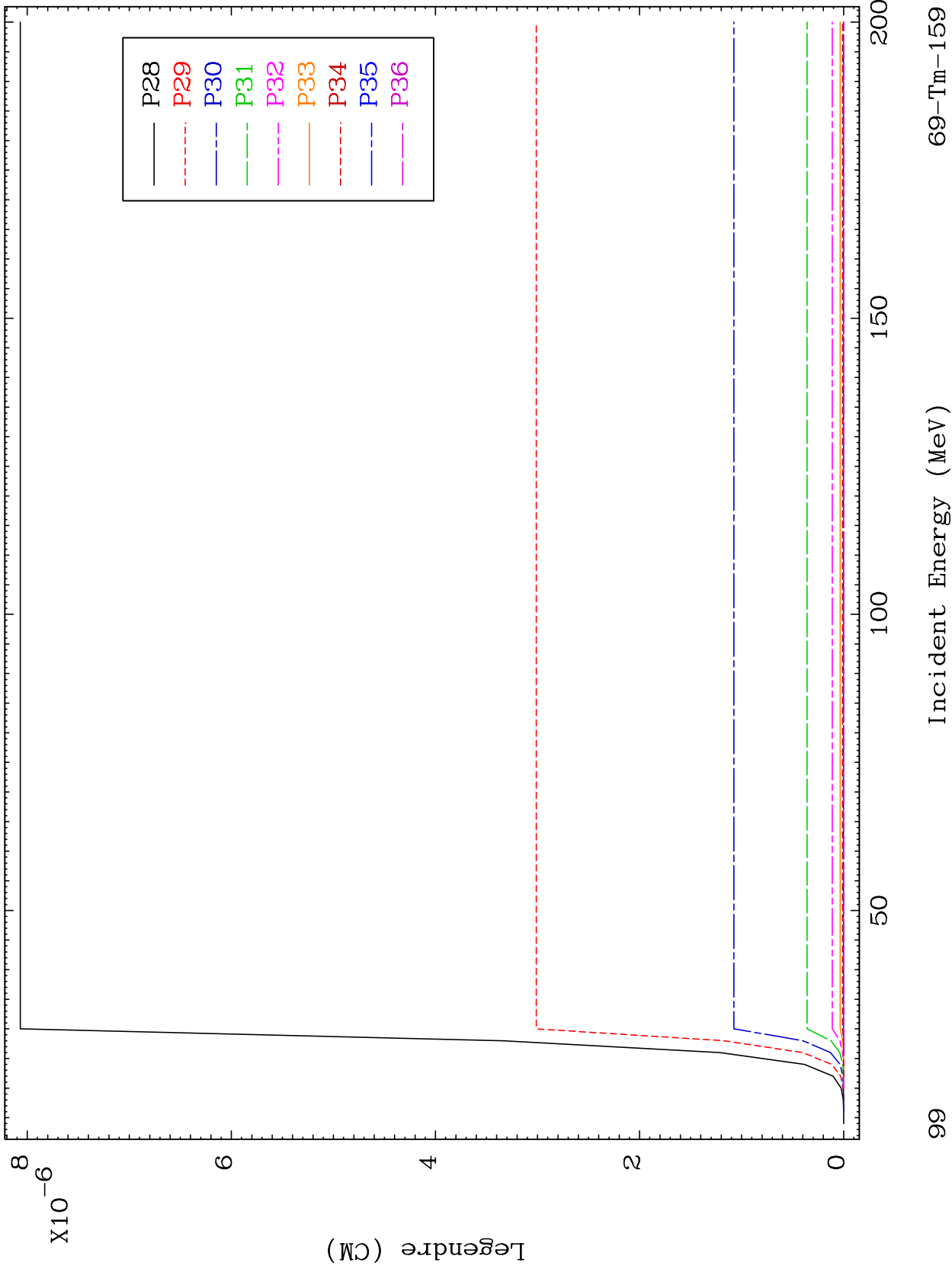
69-Tm-159



MAT 6895

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

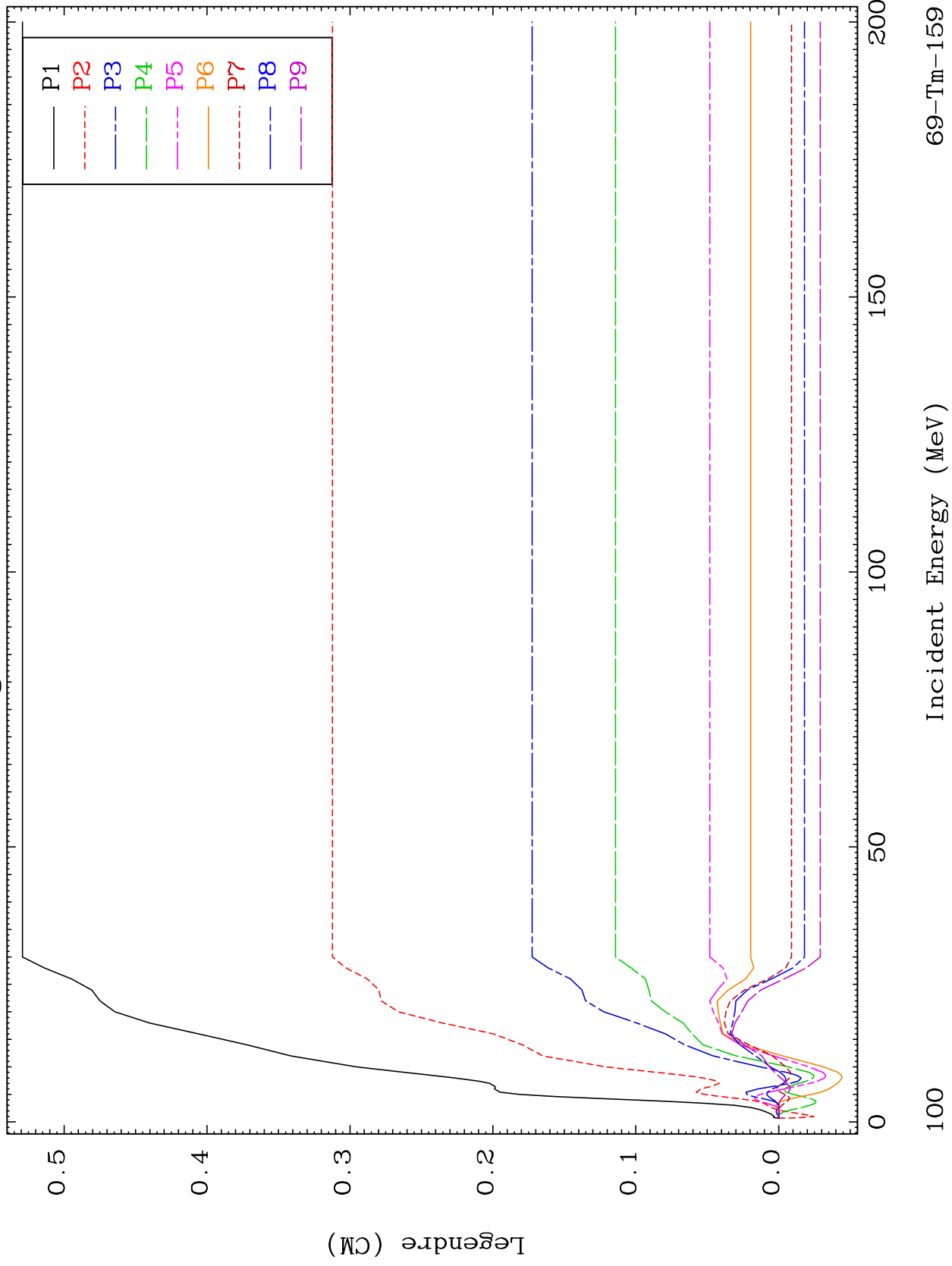
69-Tm-159



MAT 6895

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

69-Tm-159



69-Tm-159

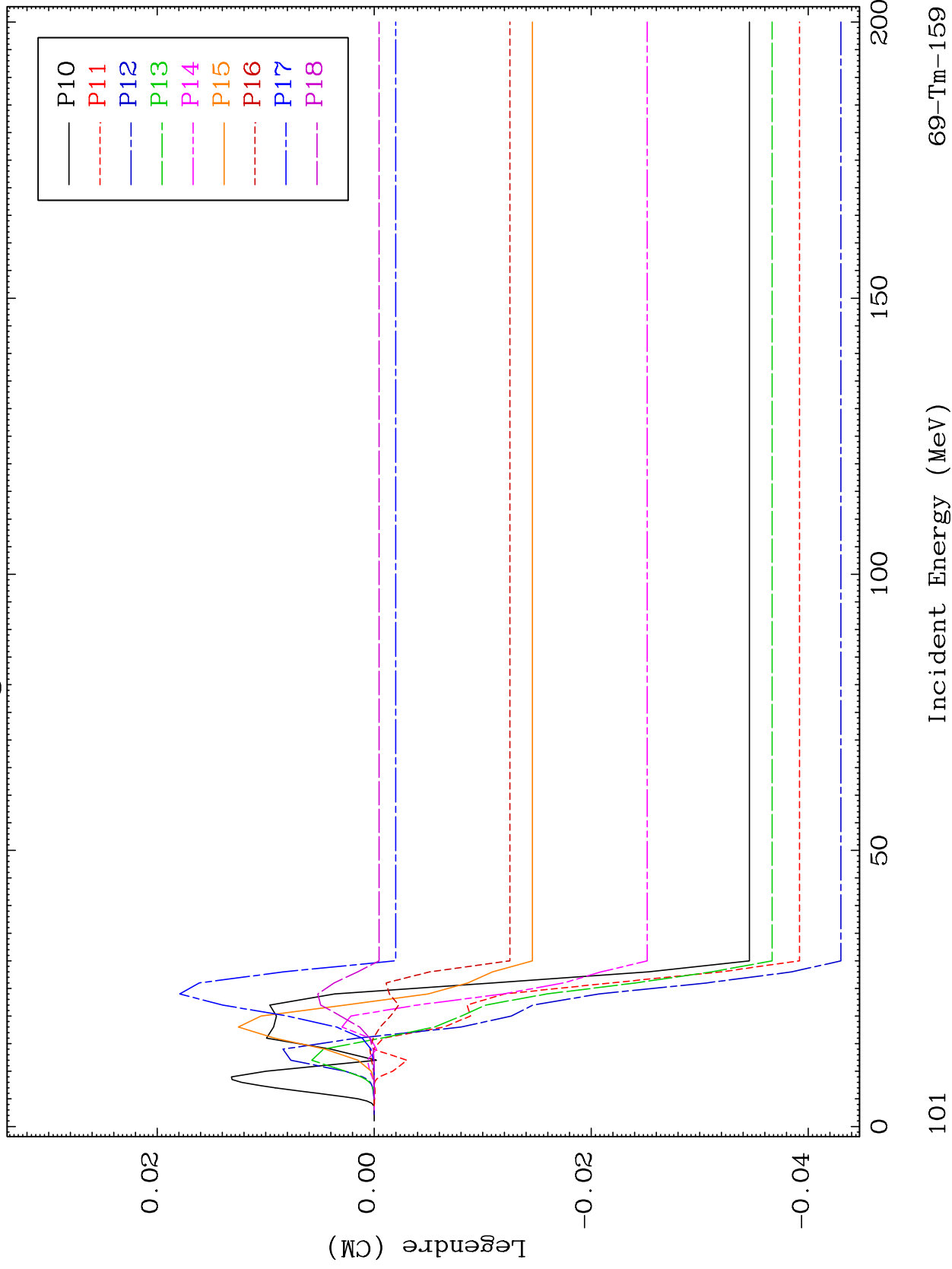
Incident Energy (MeV)

100

MAT 6895

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

69-Tm-159



69-Tm-159

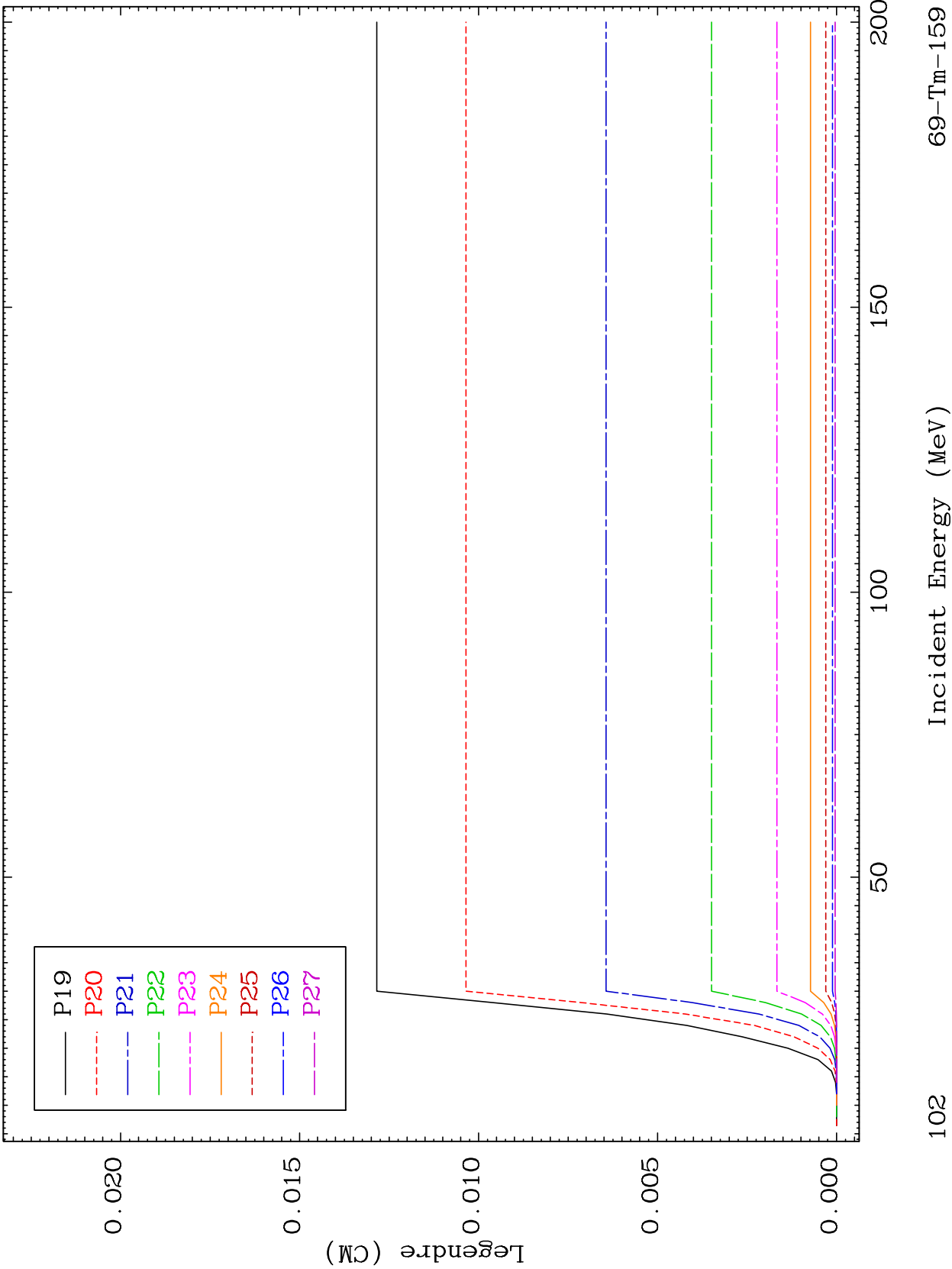
Incident Energy (MeV)

101

MAT 6895

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

69-Tm-159



102

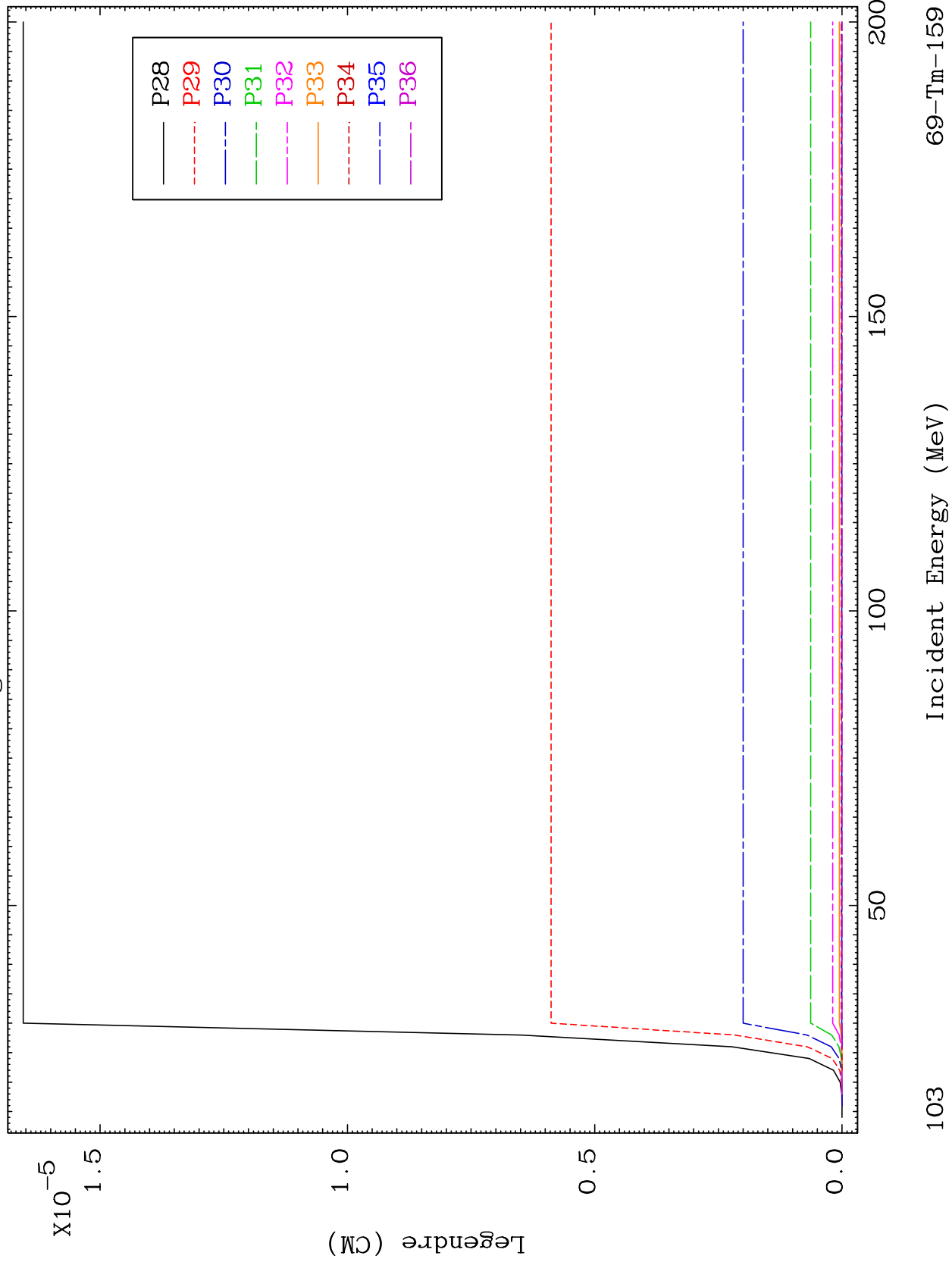
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

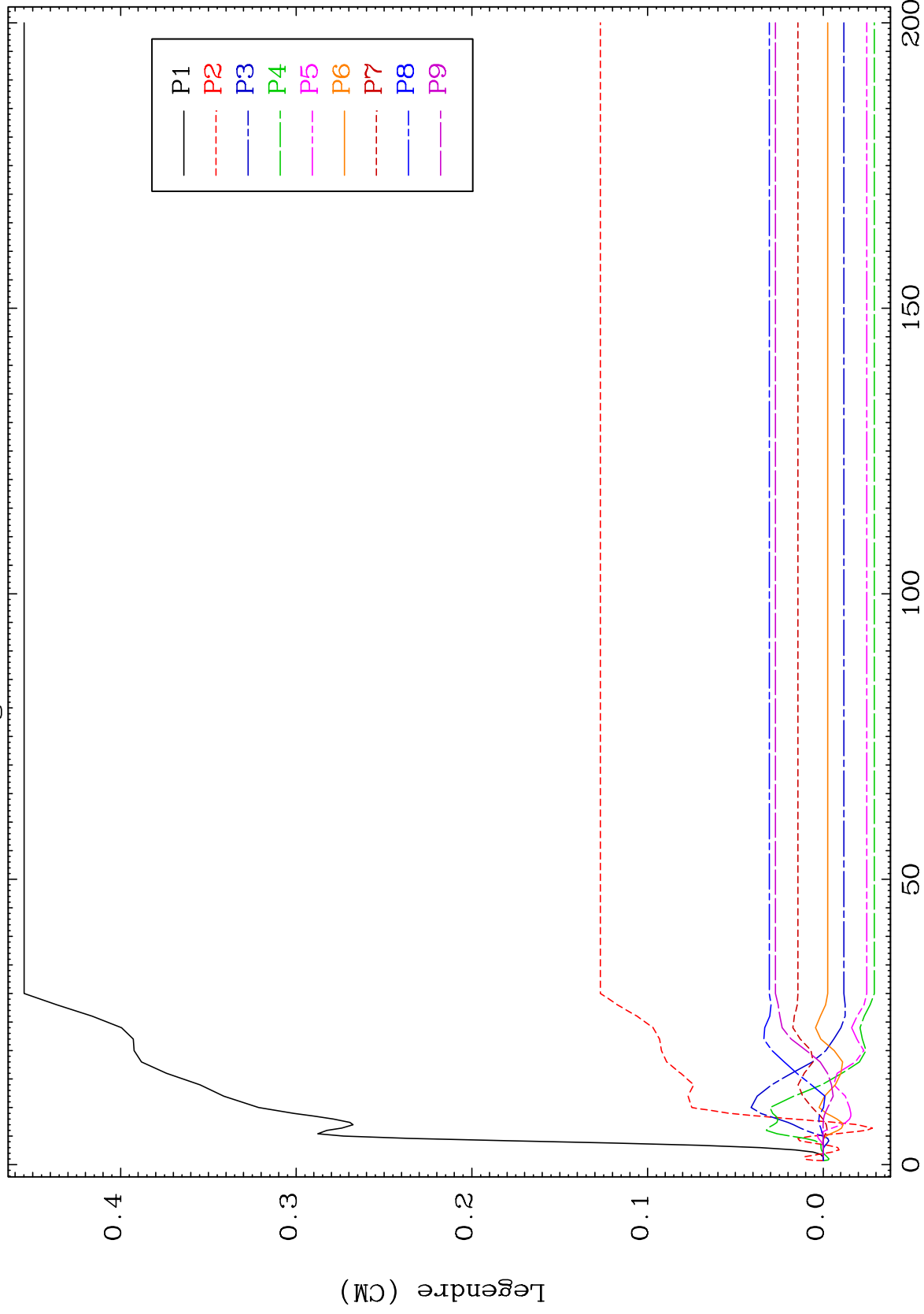
69-Tm-159



MAT 6895

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

69-Tm-159



104

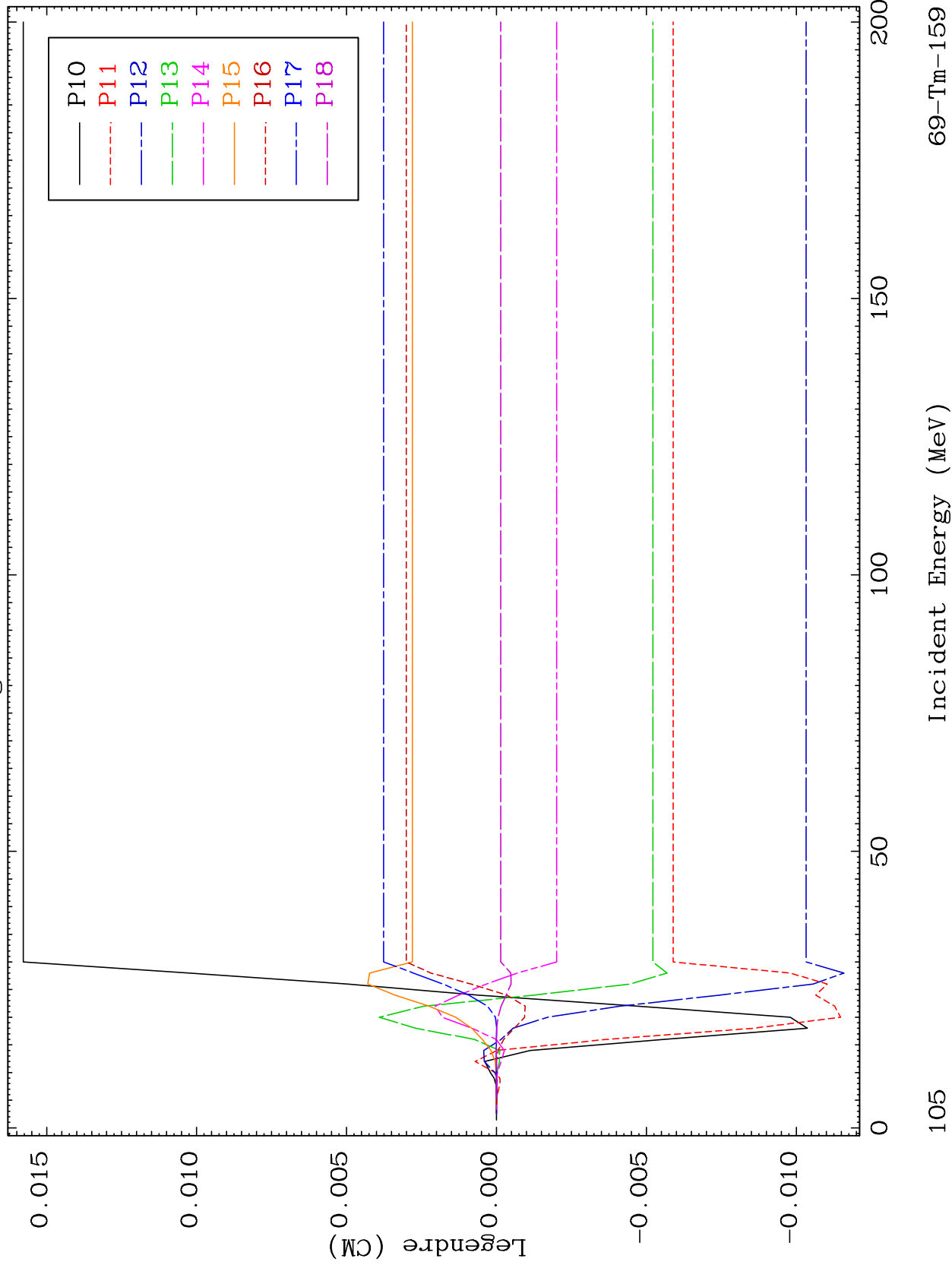
Incident Energy (MeV)

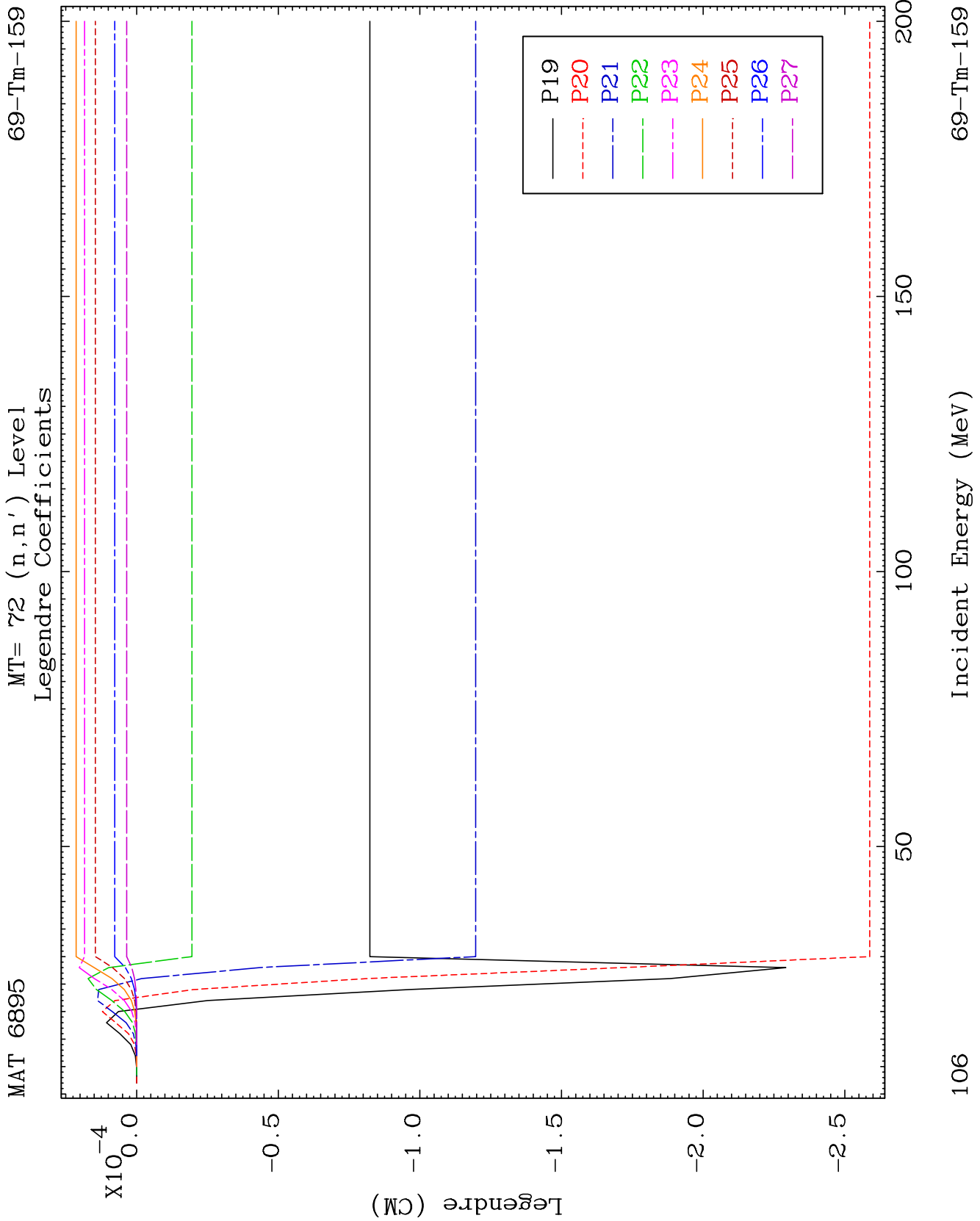
69-Tm-159

MAT 6895

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

69-Tm-159

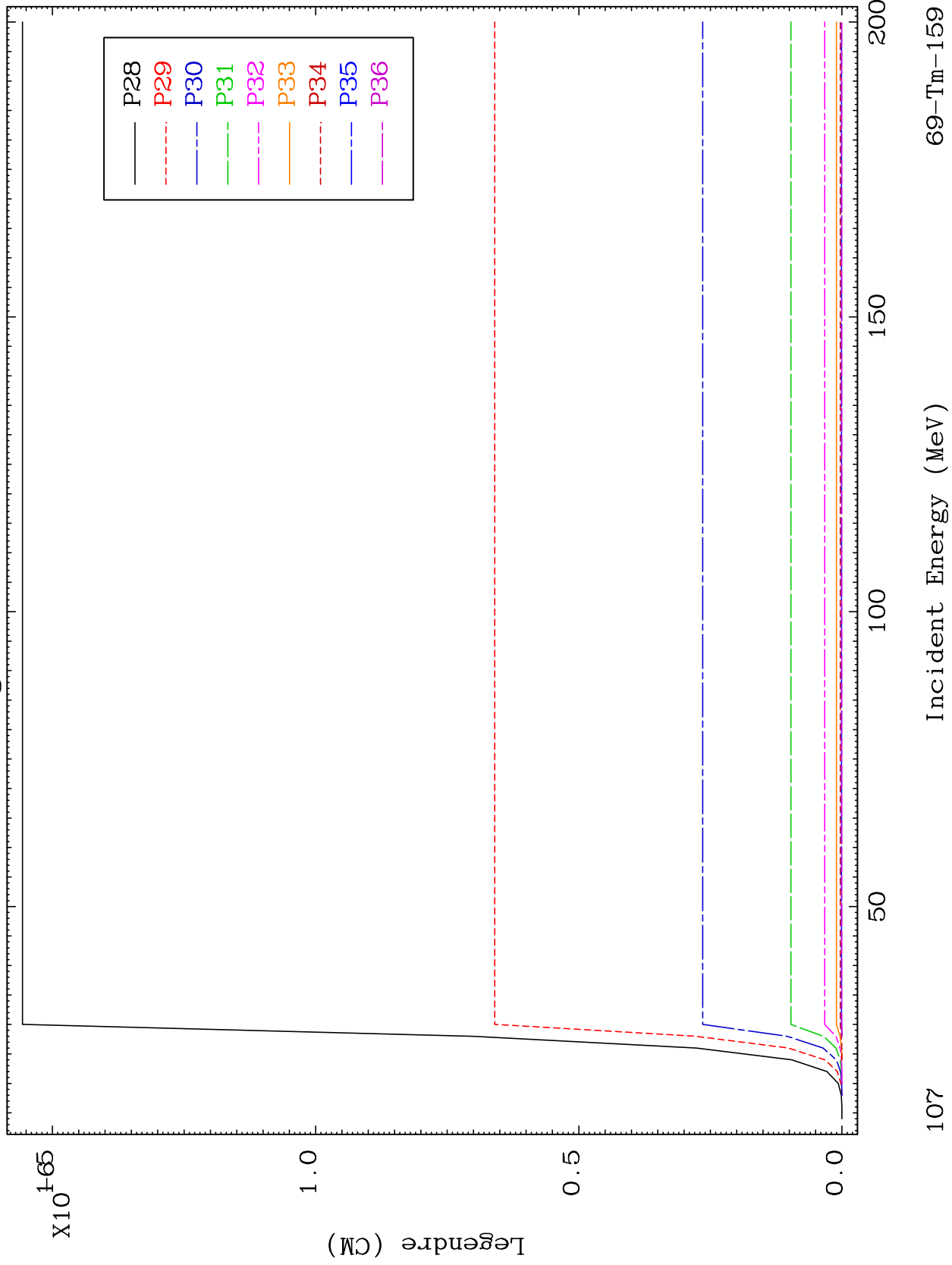


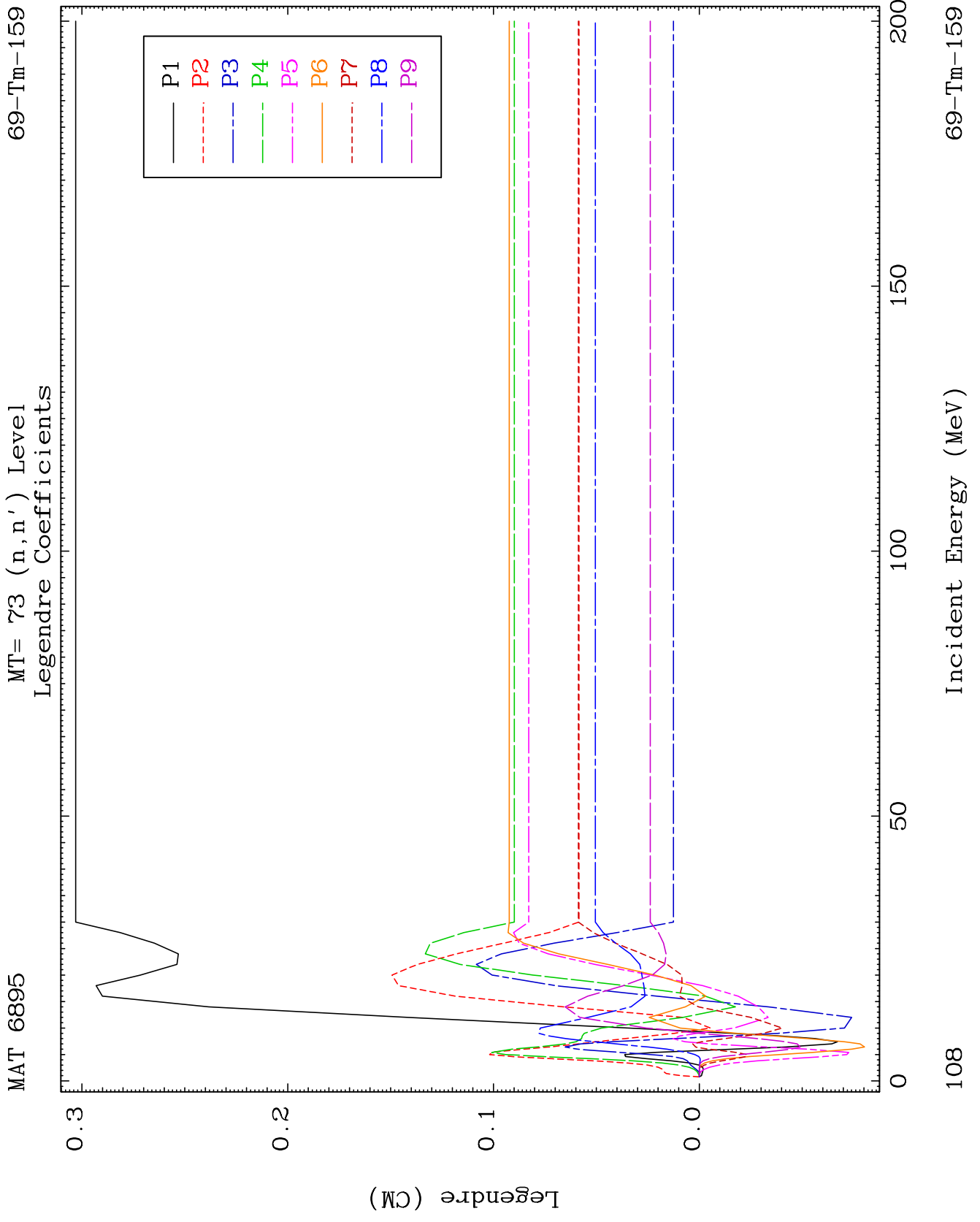


MAT 6895

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

69-Tm-159

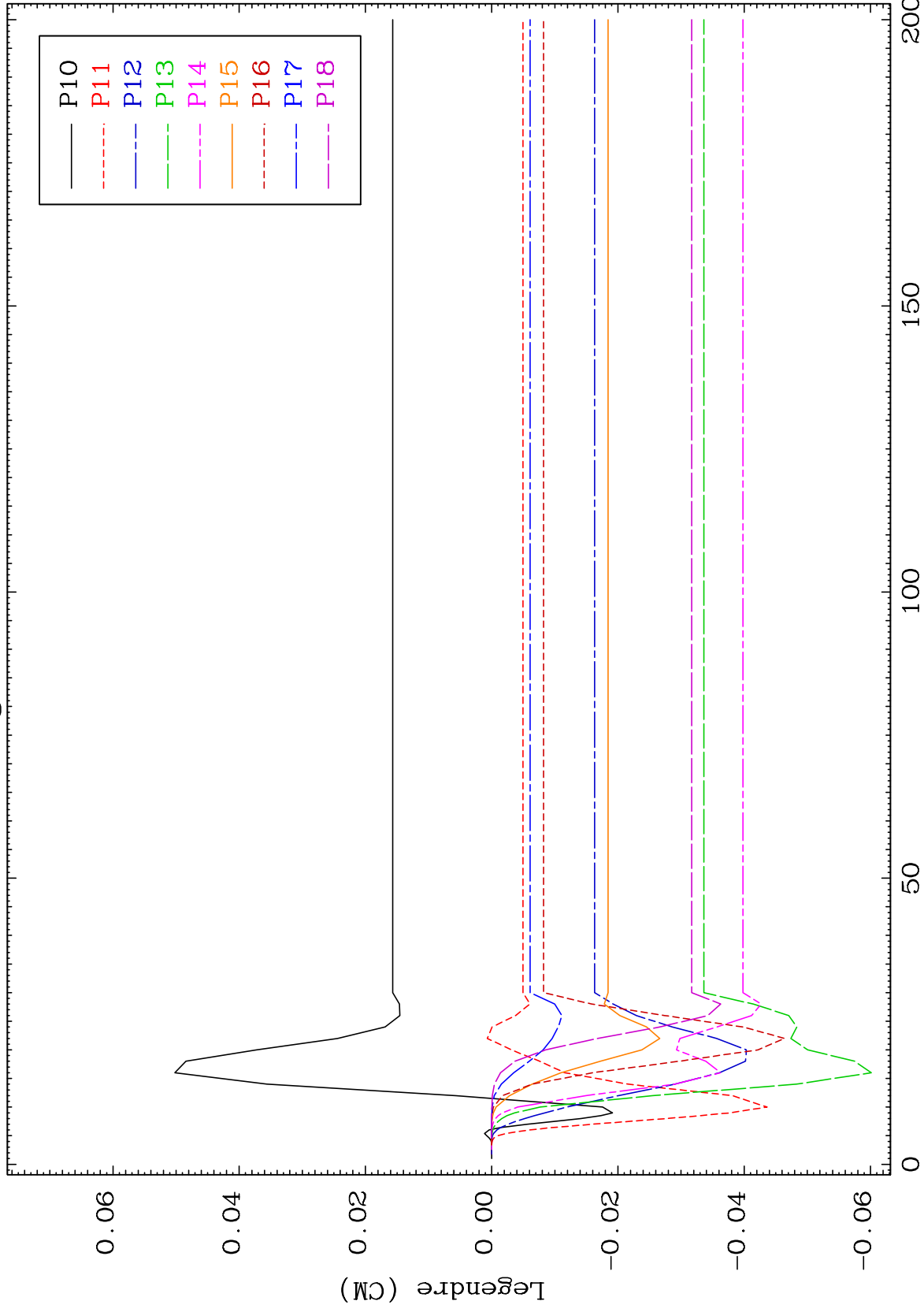




MAT 6895

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

69-Tm-159



109

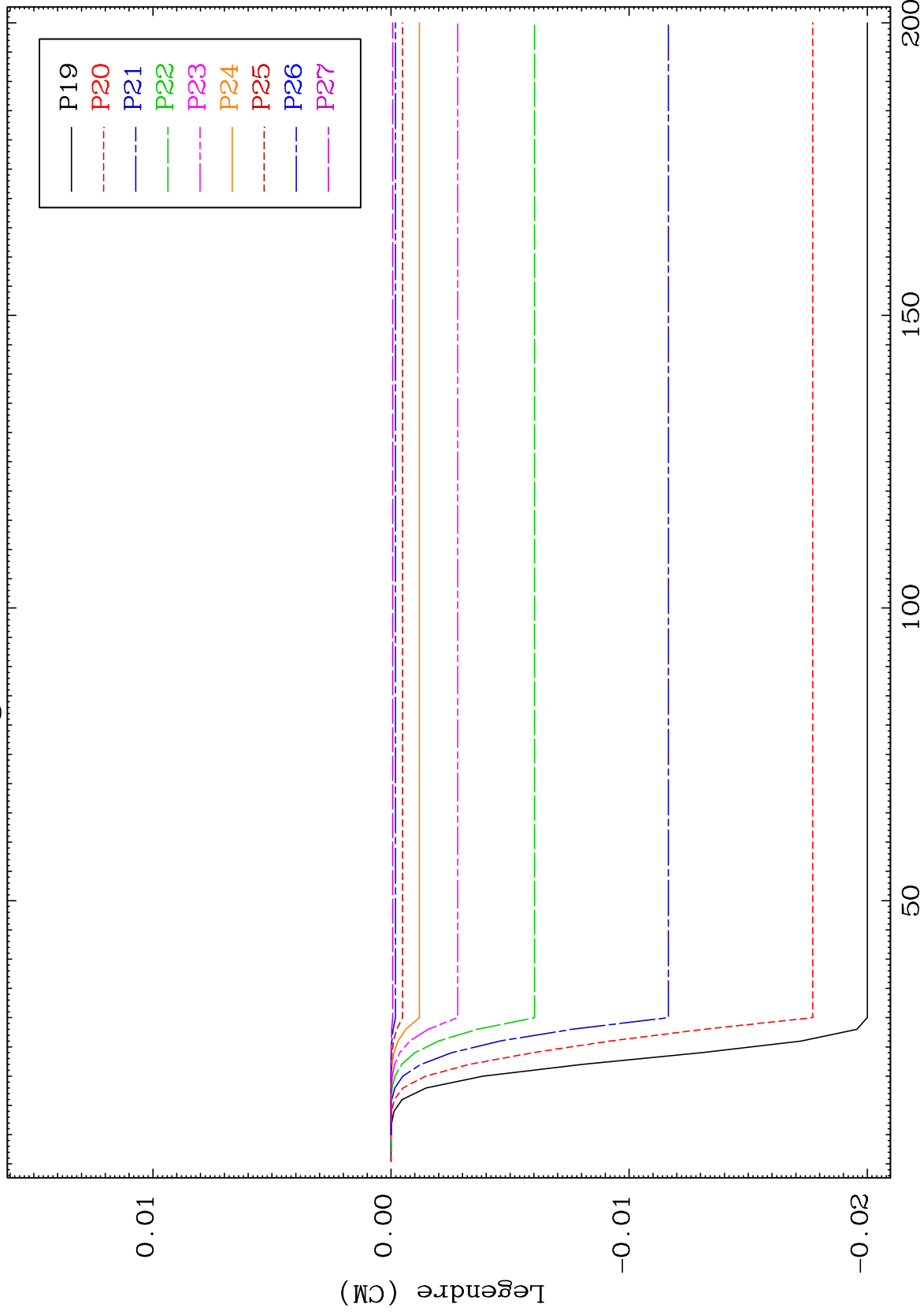
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

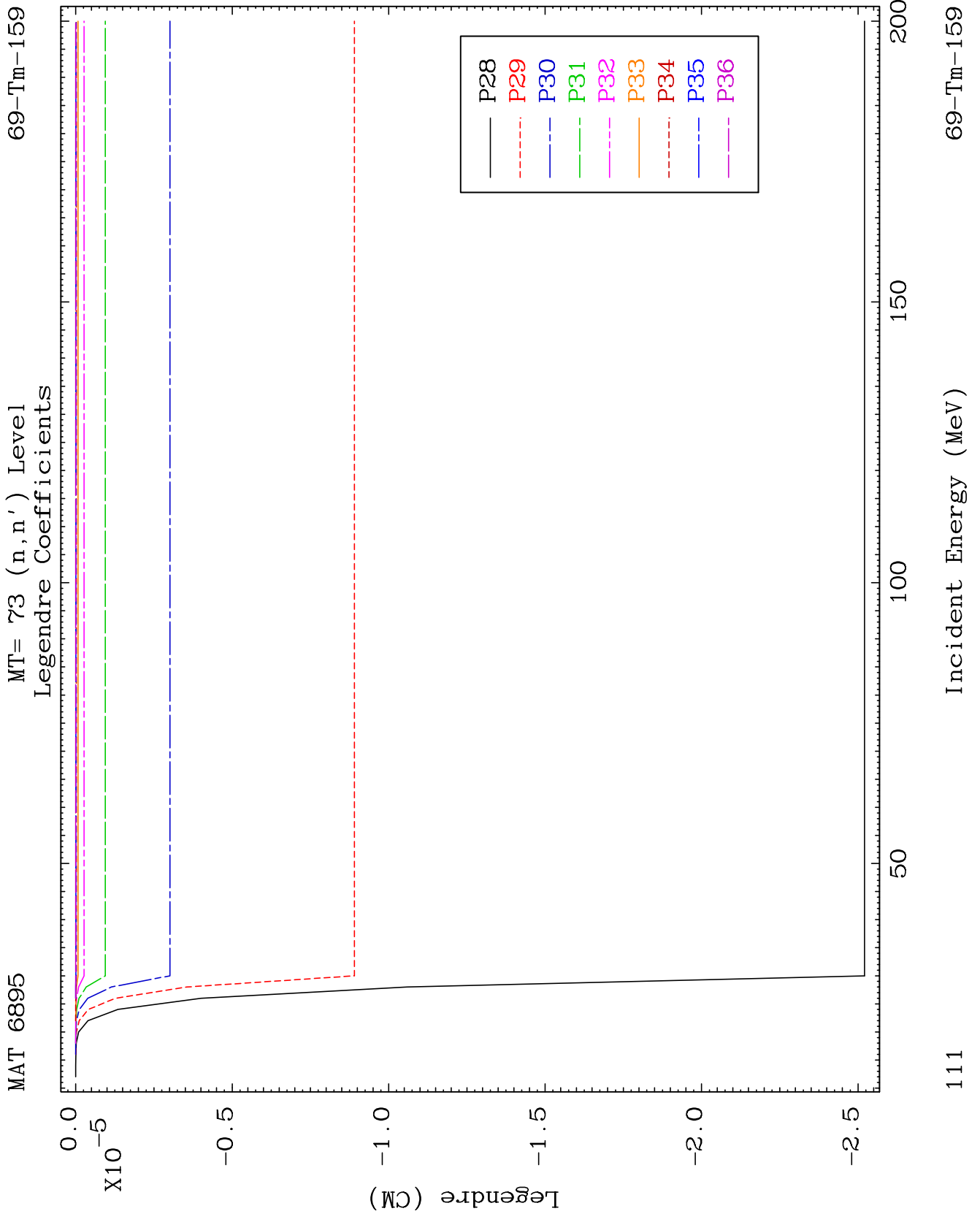
69-Tm-159



110

Incident Energy (MeV)

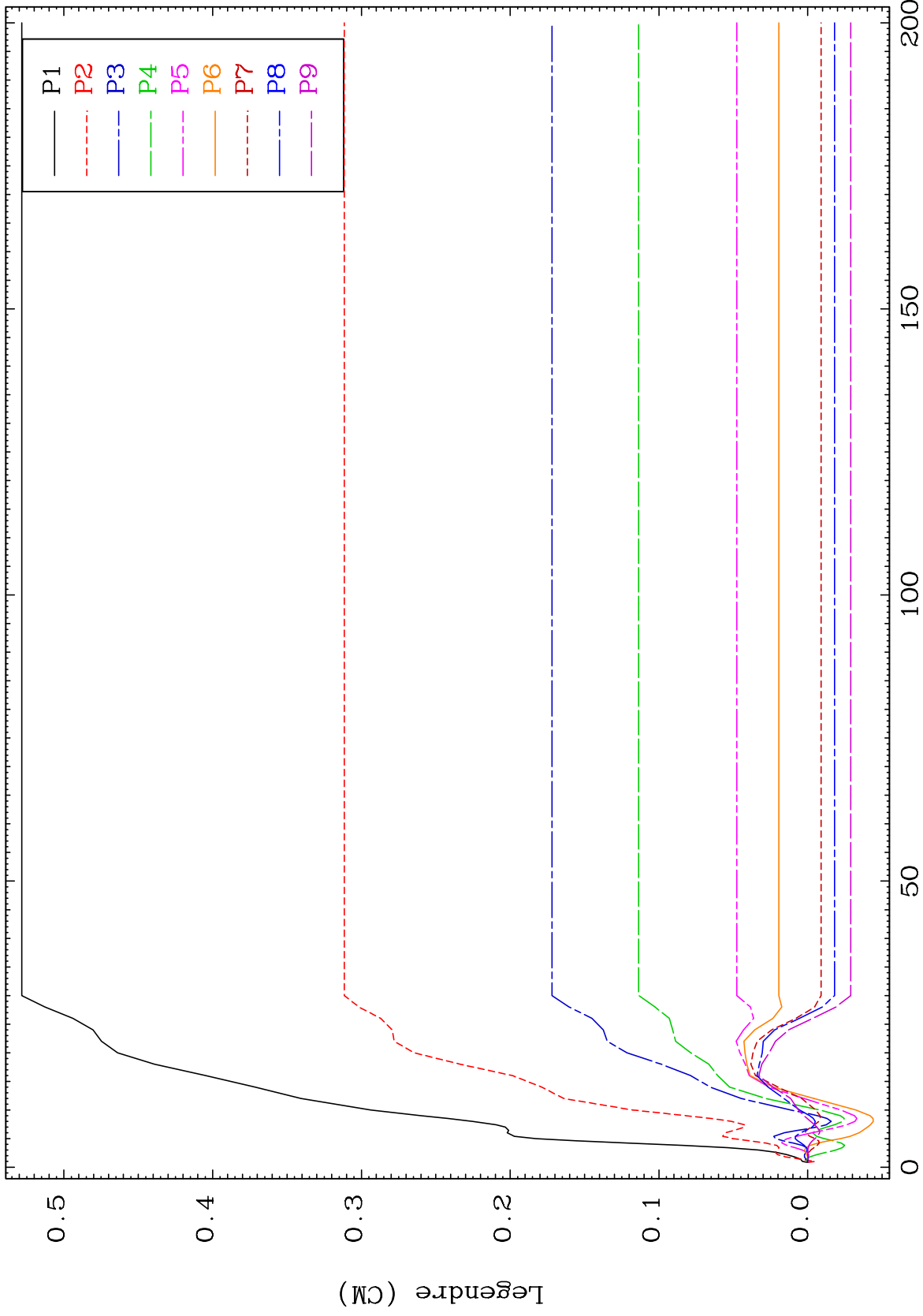
69-Tm-159



MAT 6895

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

69-Tm-159



69-Tm-159

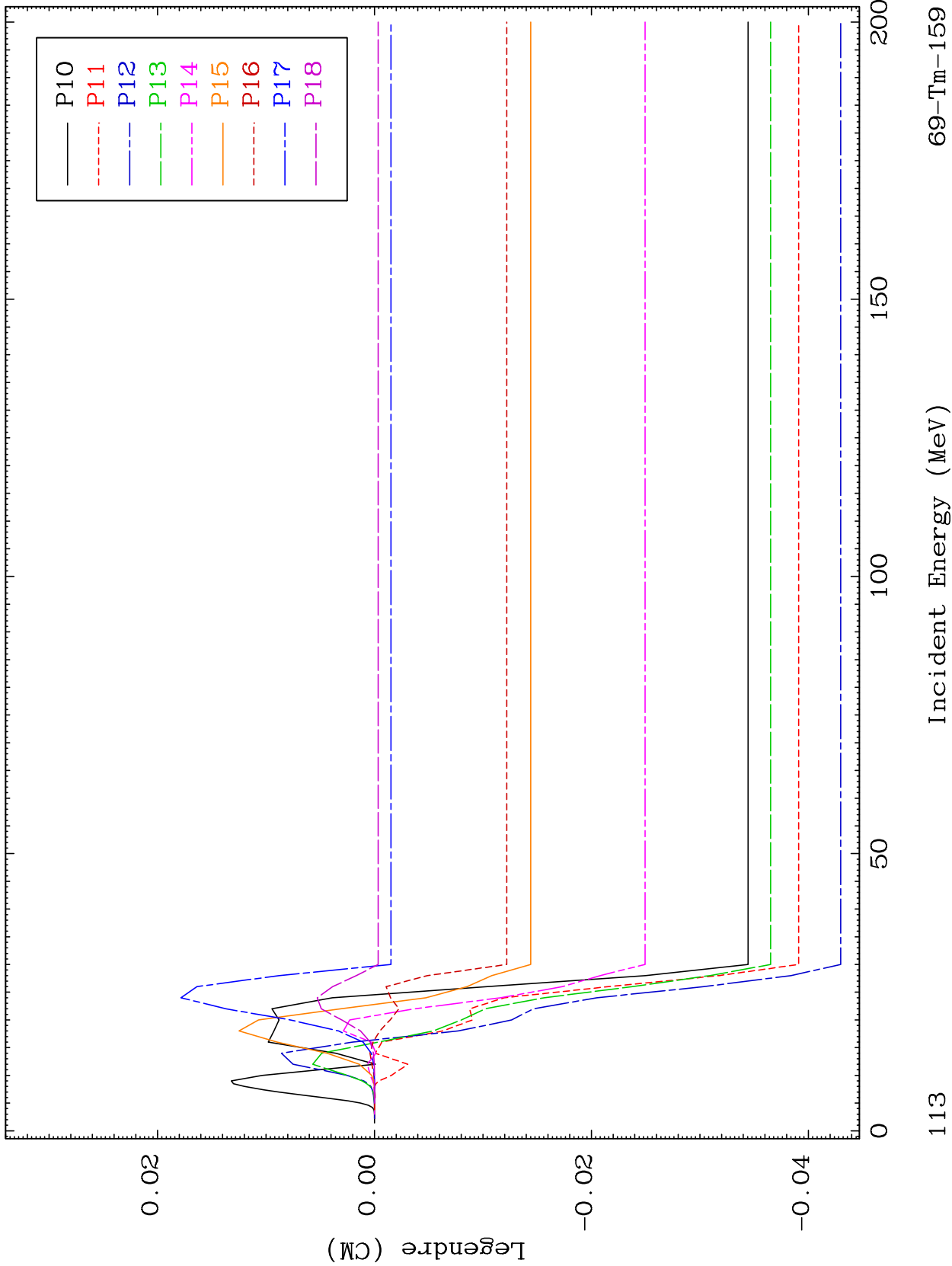
Incident Energy (MeV)

112

MAT 6895

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

69-Tm-159



113

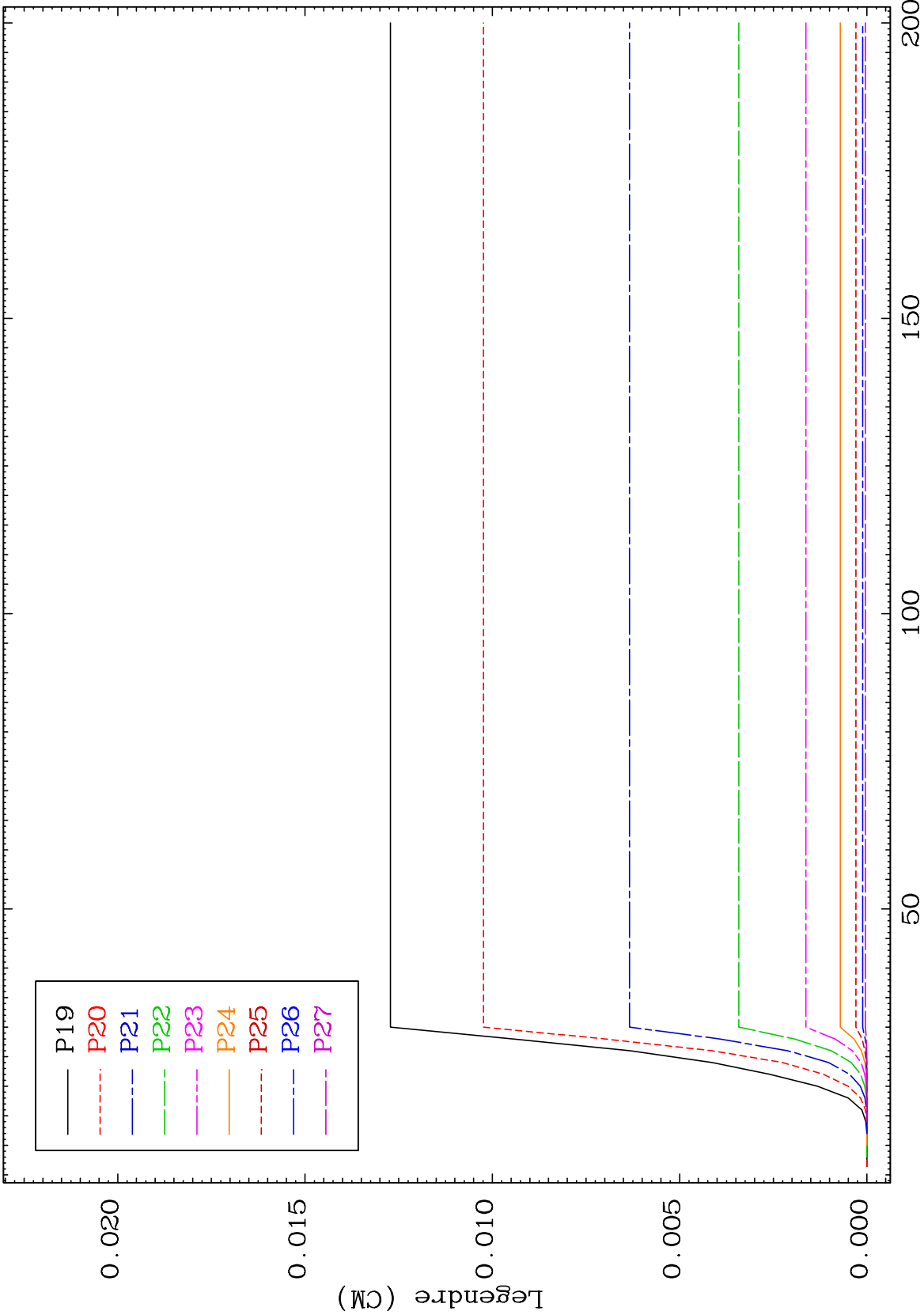
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



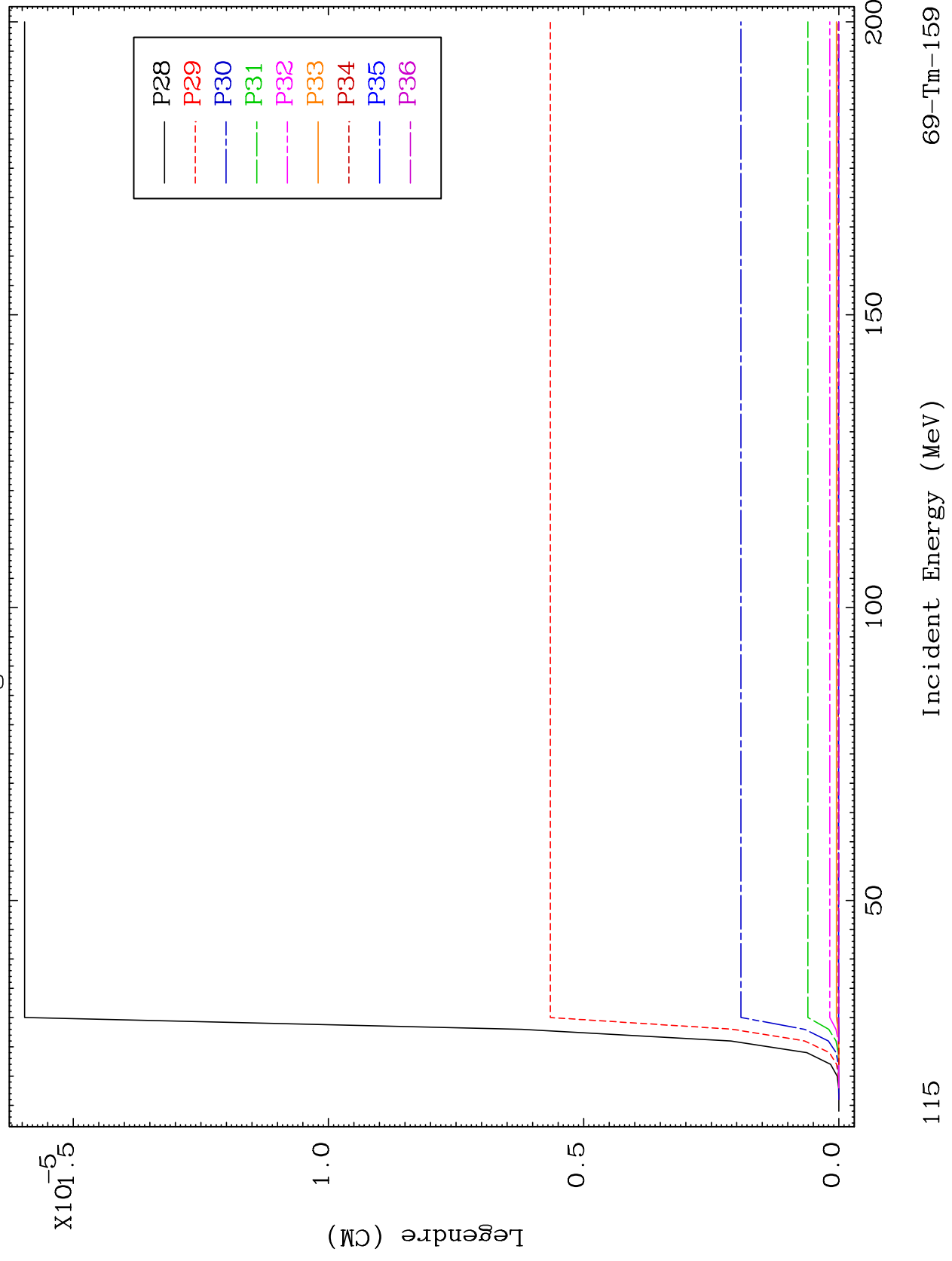
114

69-Tm-159

MAT 6895

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

69-Tm-159



115

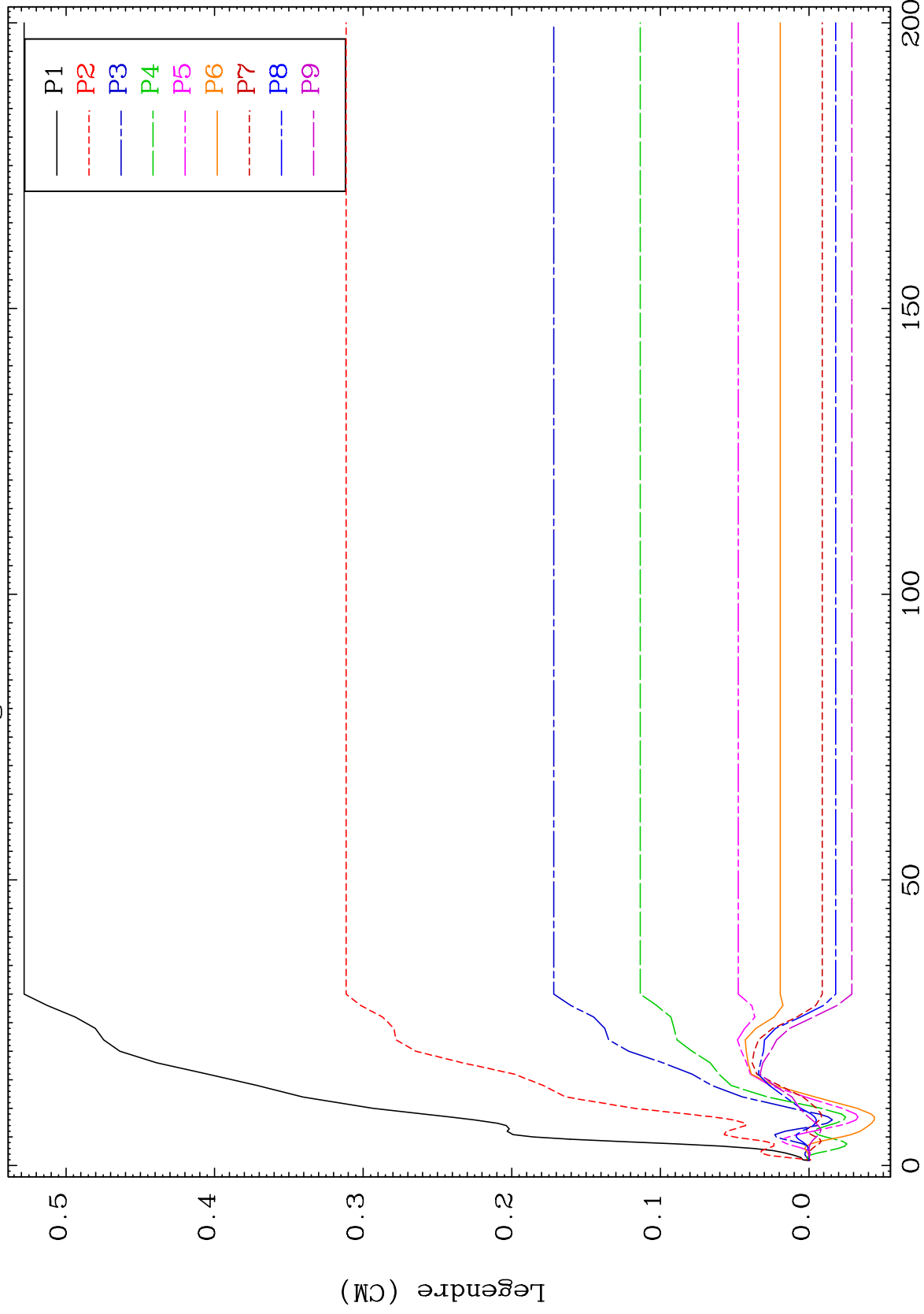
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



69-Tm-159

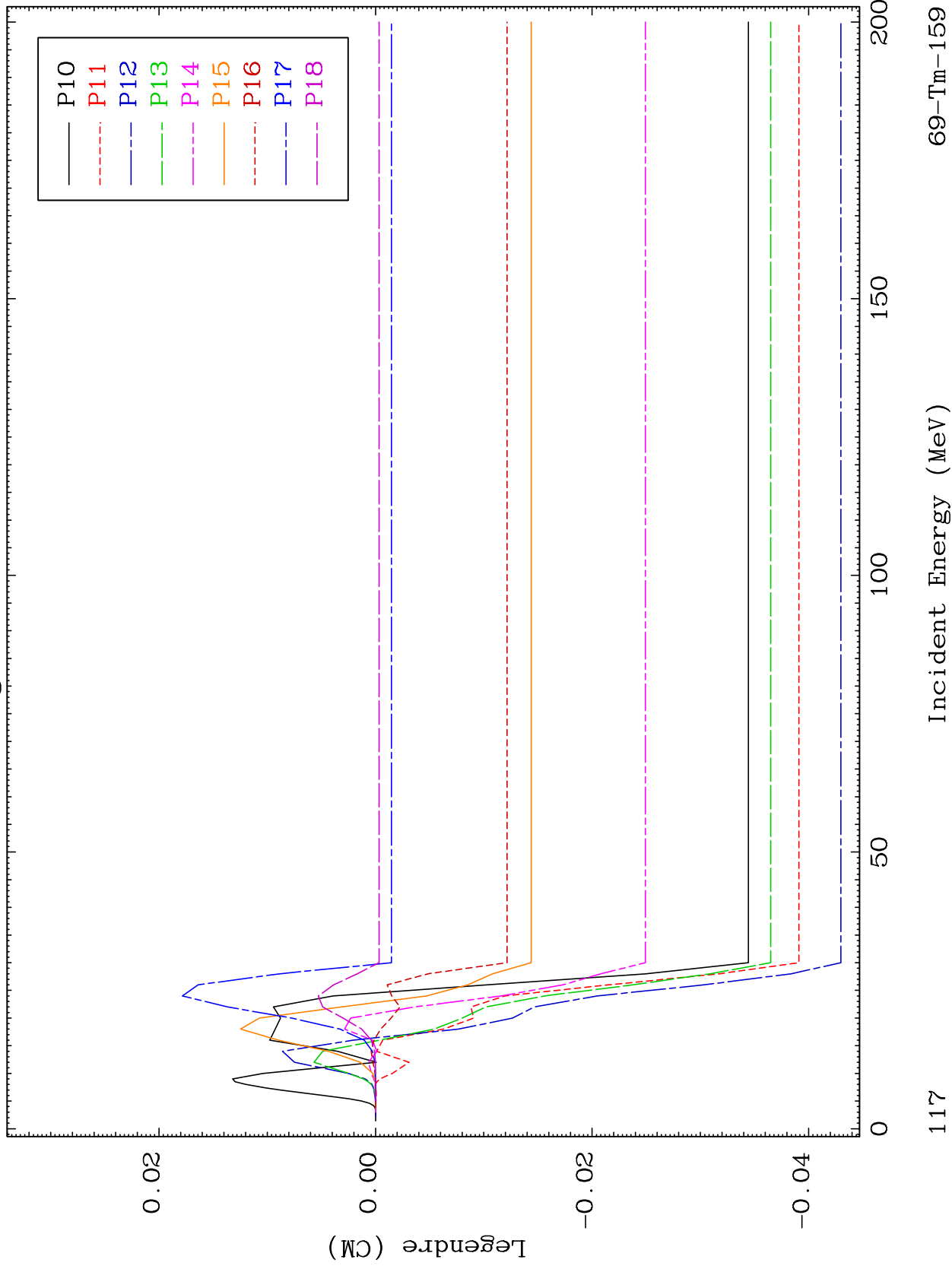
Incident Energy (MeV)

116

MAT 6895

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

69-Tm-159



117

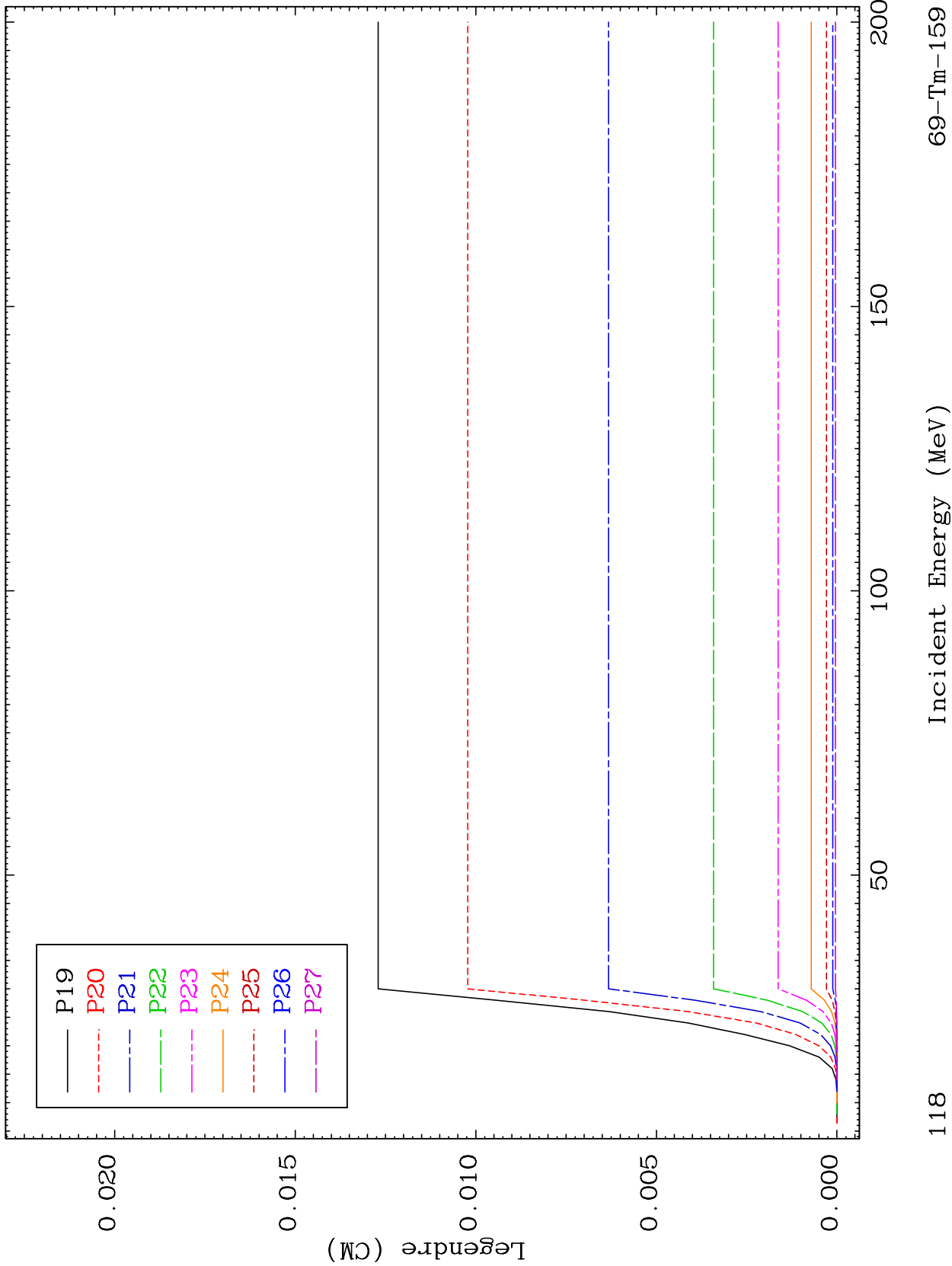
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



118

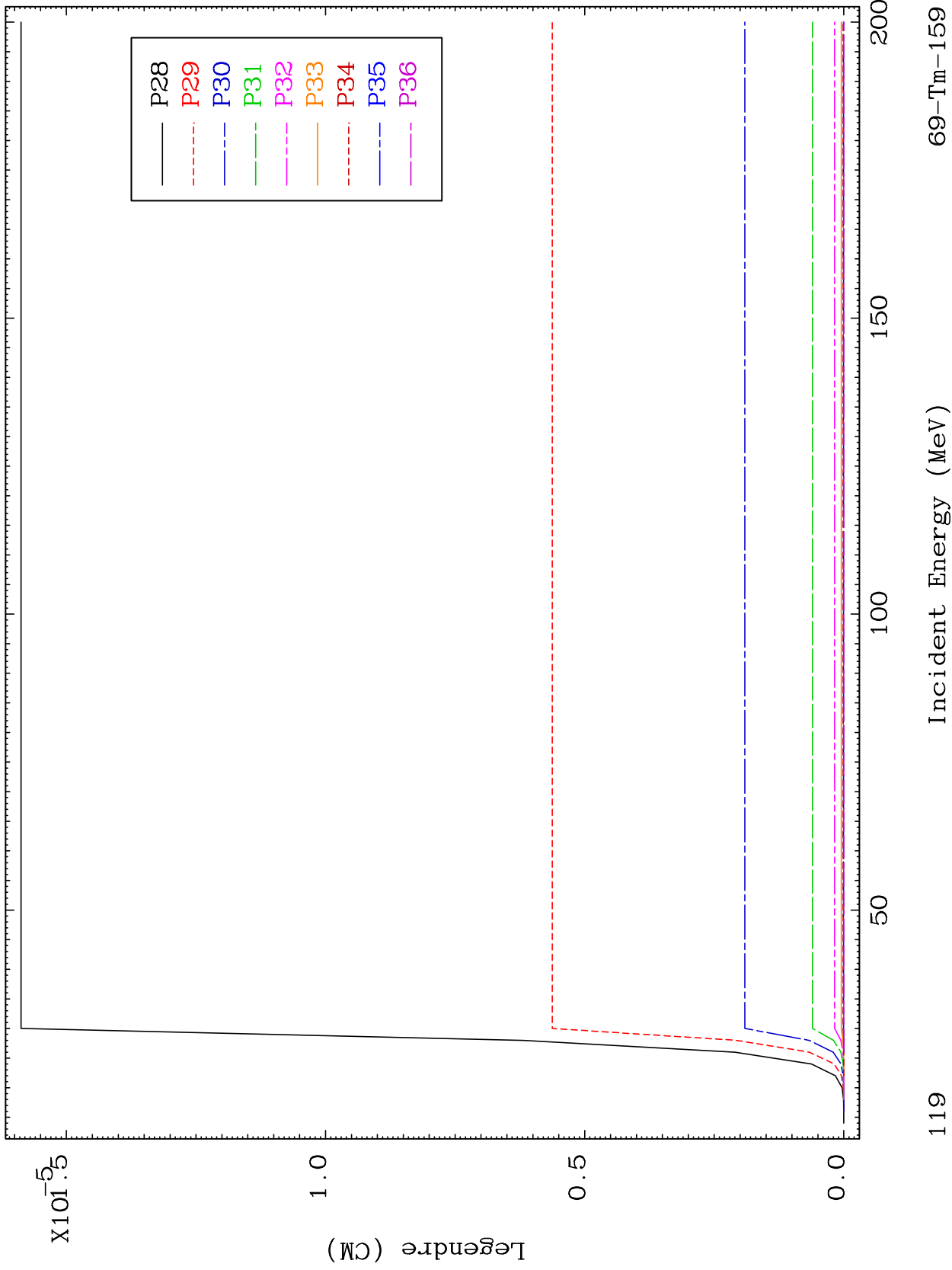
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



119

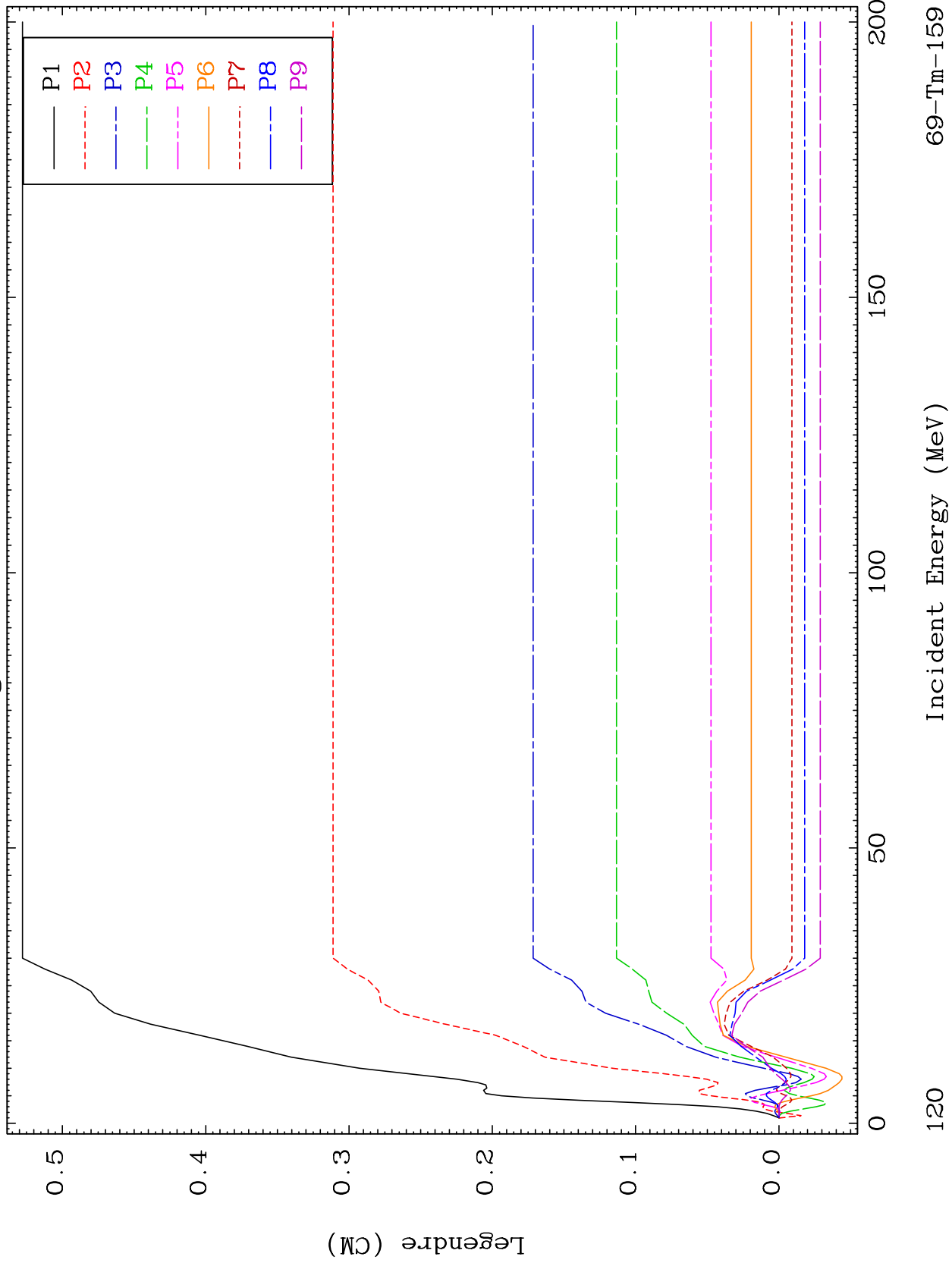
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

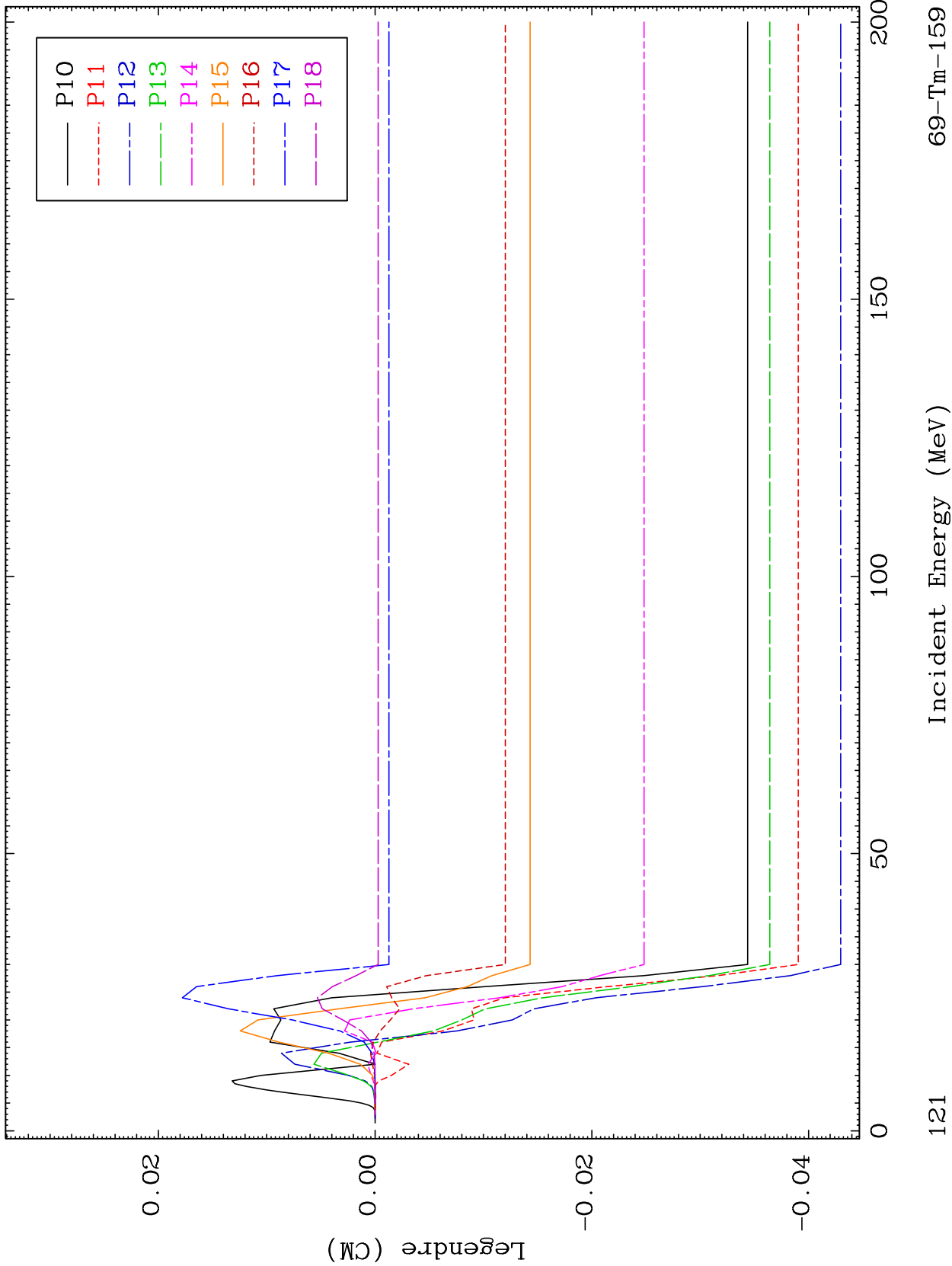
69-Tm-159



MAT 6895

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

69-Tm-159



121

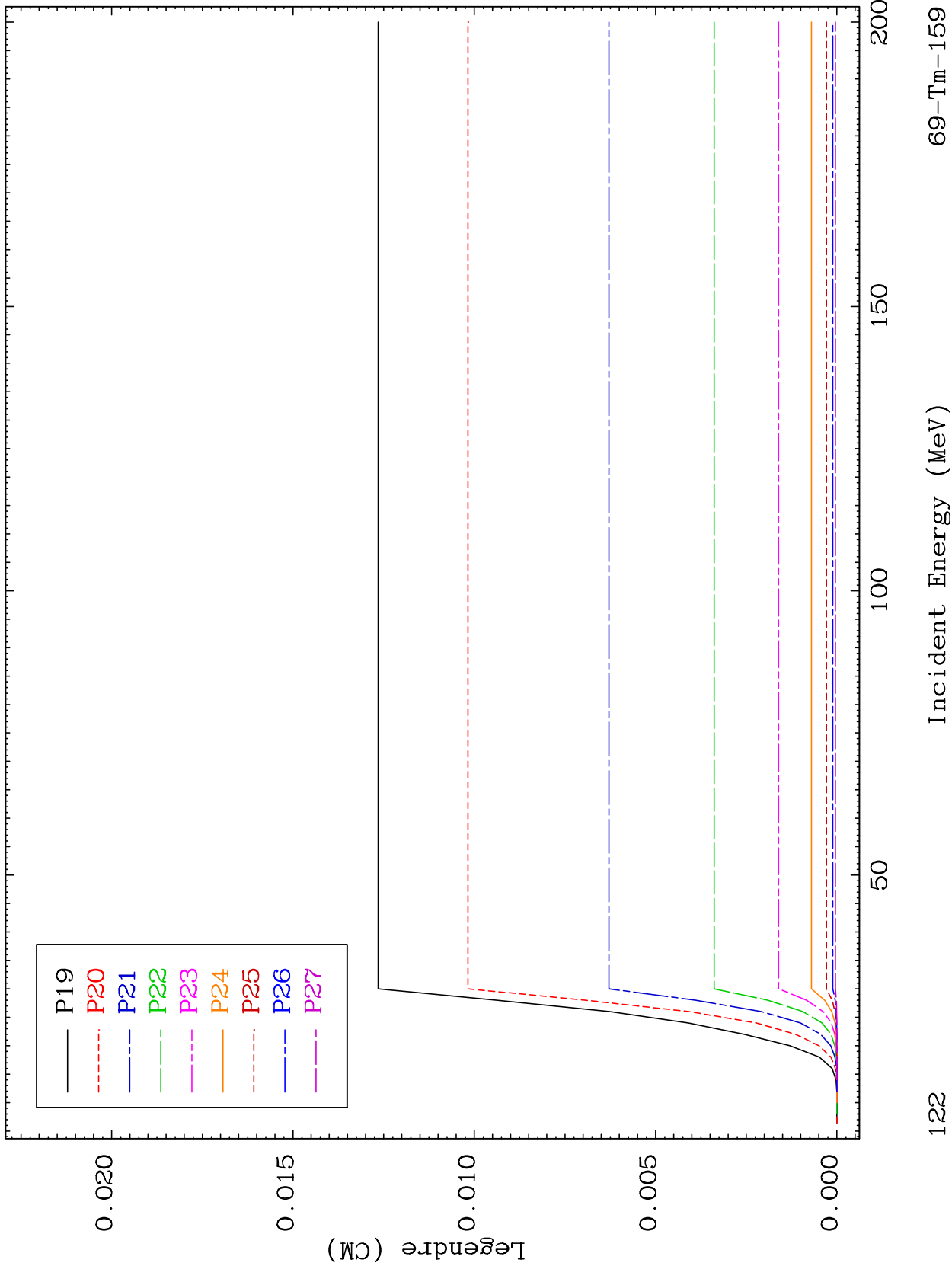
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159



122

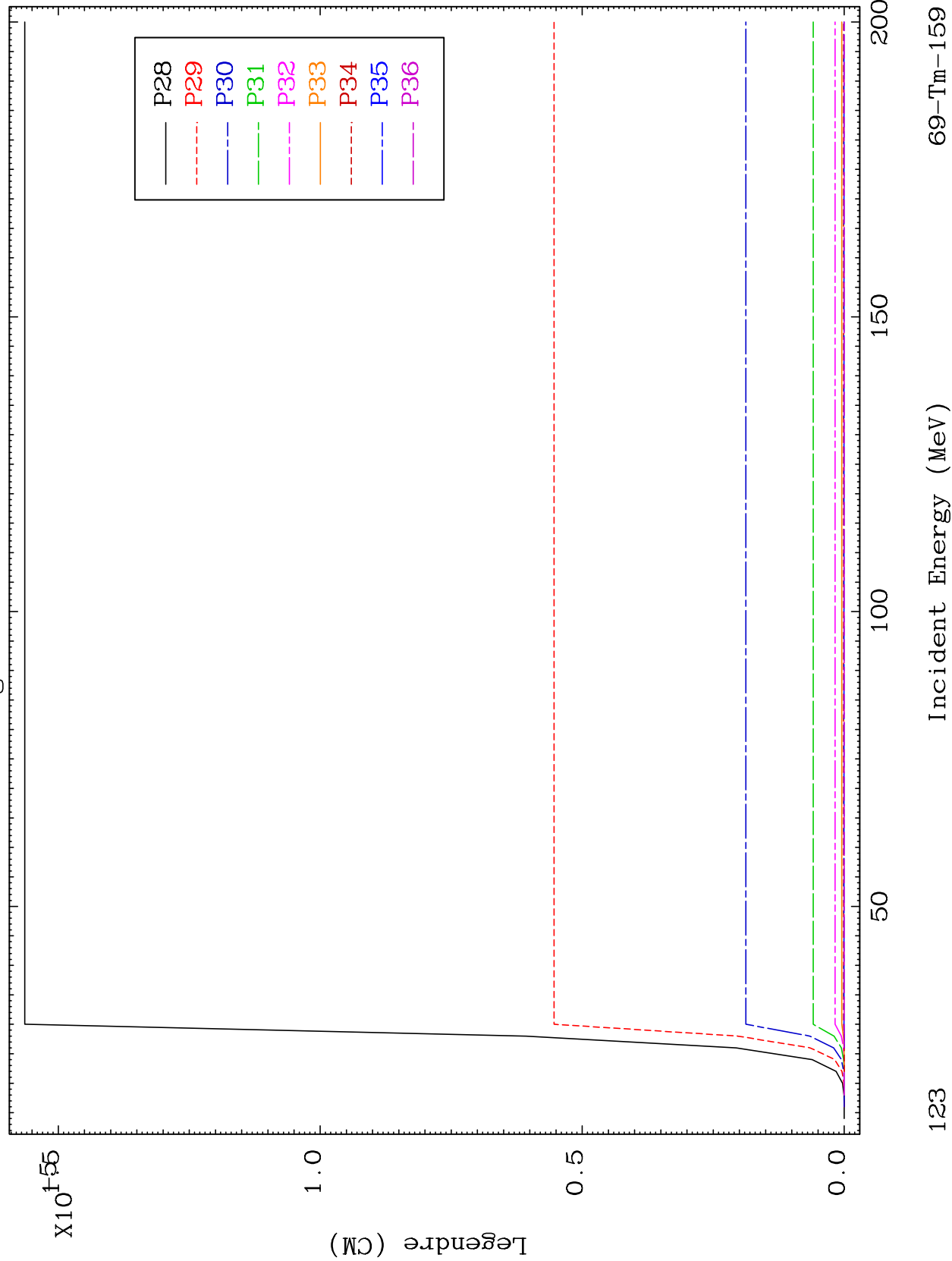
Incident Energy (MeV)

69-Tm-159

MAT 6895

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

69-Tm-159

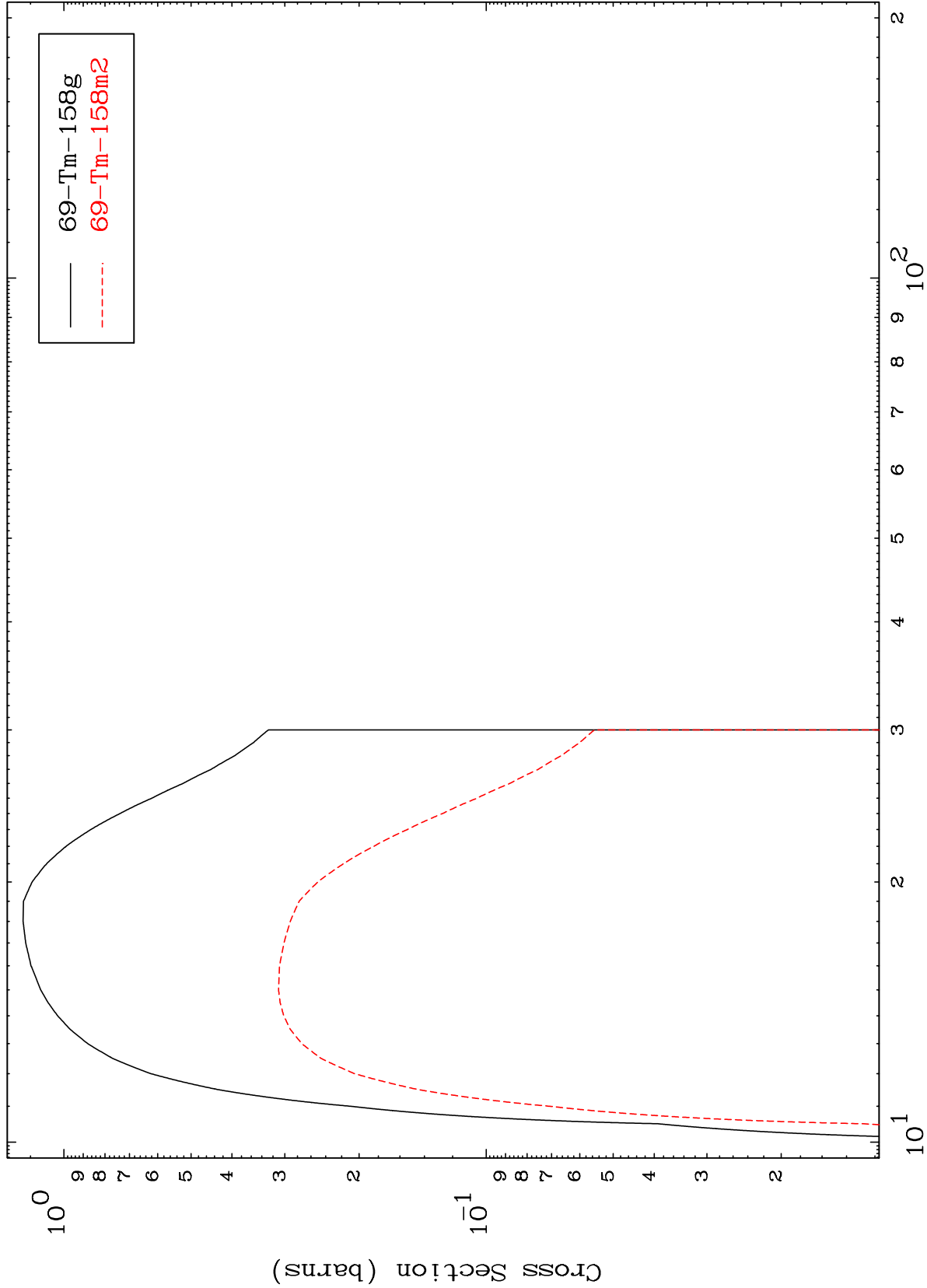


MAT 6895

(n,2n)

69-Tm-159

Radionuclide Production Cross Section



Incident Energy (MeV)

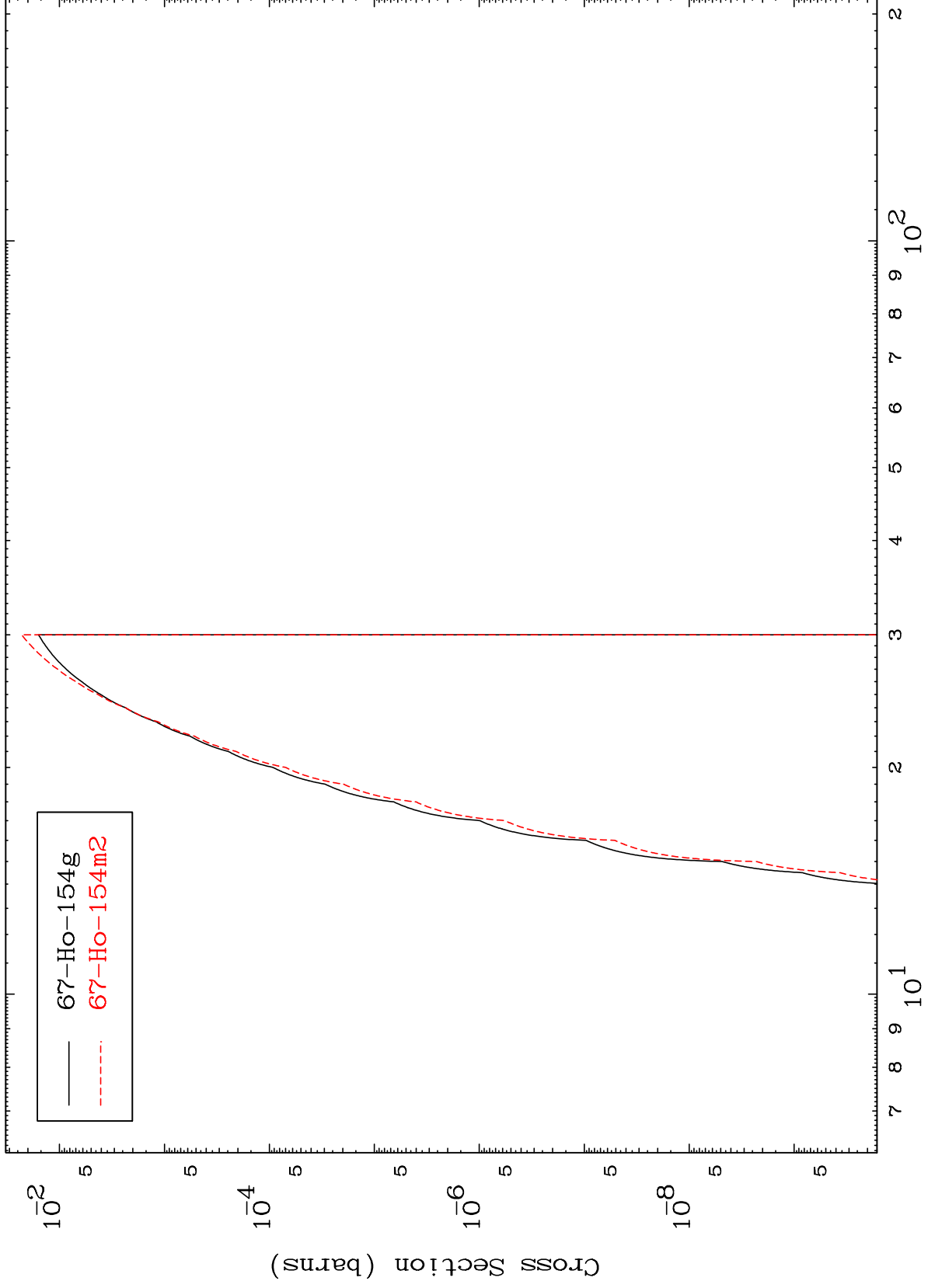
69-Tm-159

MAT 6895

$(n,2n) \alpha$

69-Tm-159

Radionuclide Production Cross Section



67-Ho-154g
67-Ho-154m2

125

Incident Energy (MeV)

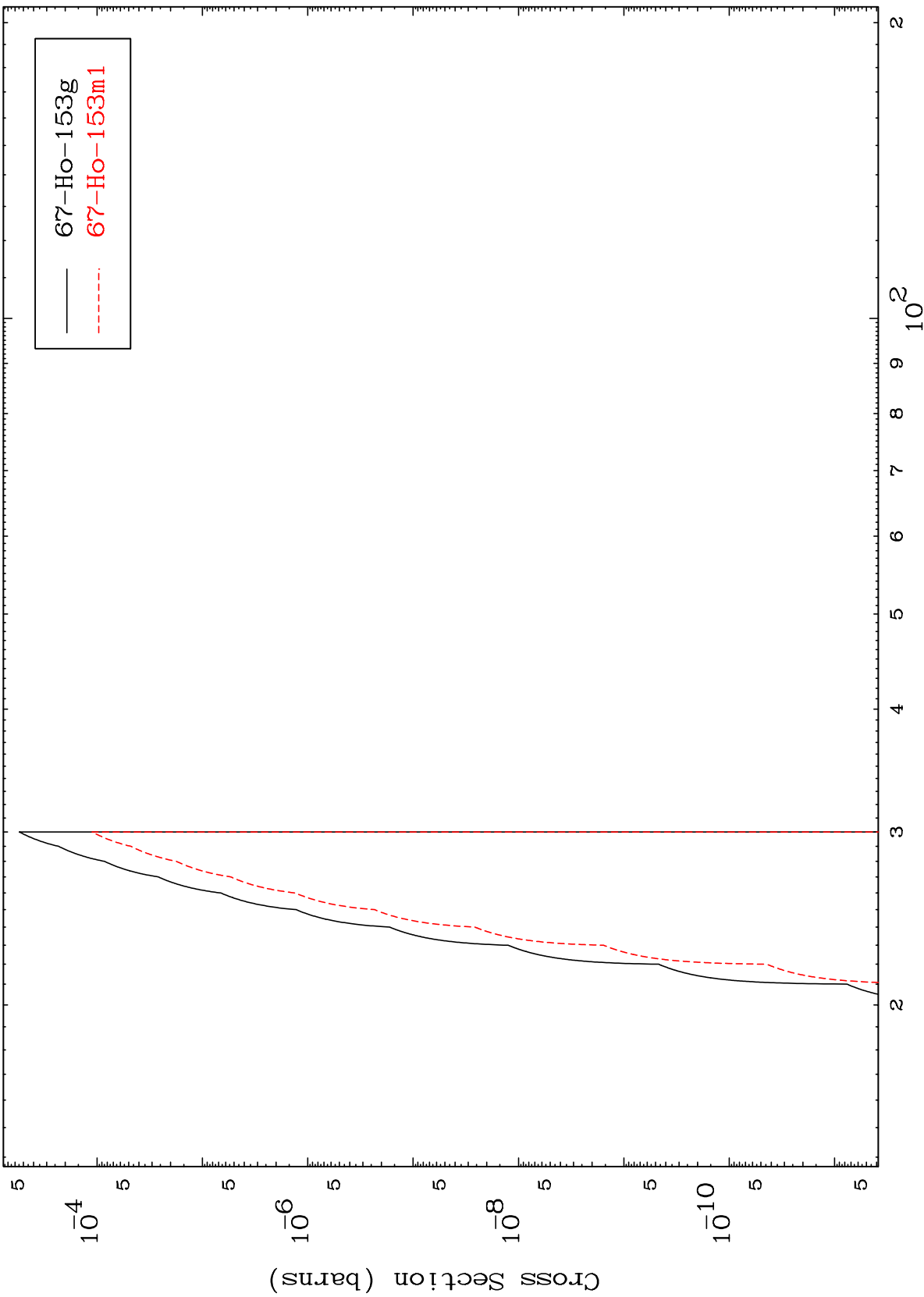
69-Tm-159

MAT 6895

$(n,3n) \alpha$

69-Tm-159

Radionuclide Production Cross Section



67-Ho-153g
67-Ho-153m1

126

Incident Energy (MeV)

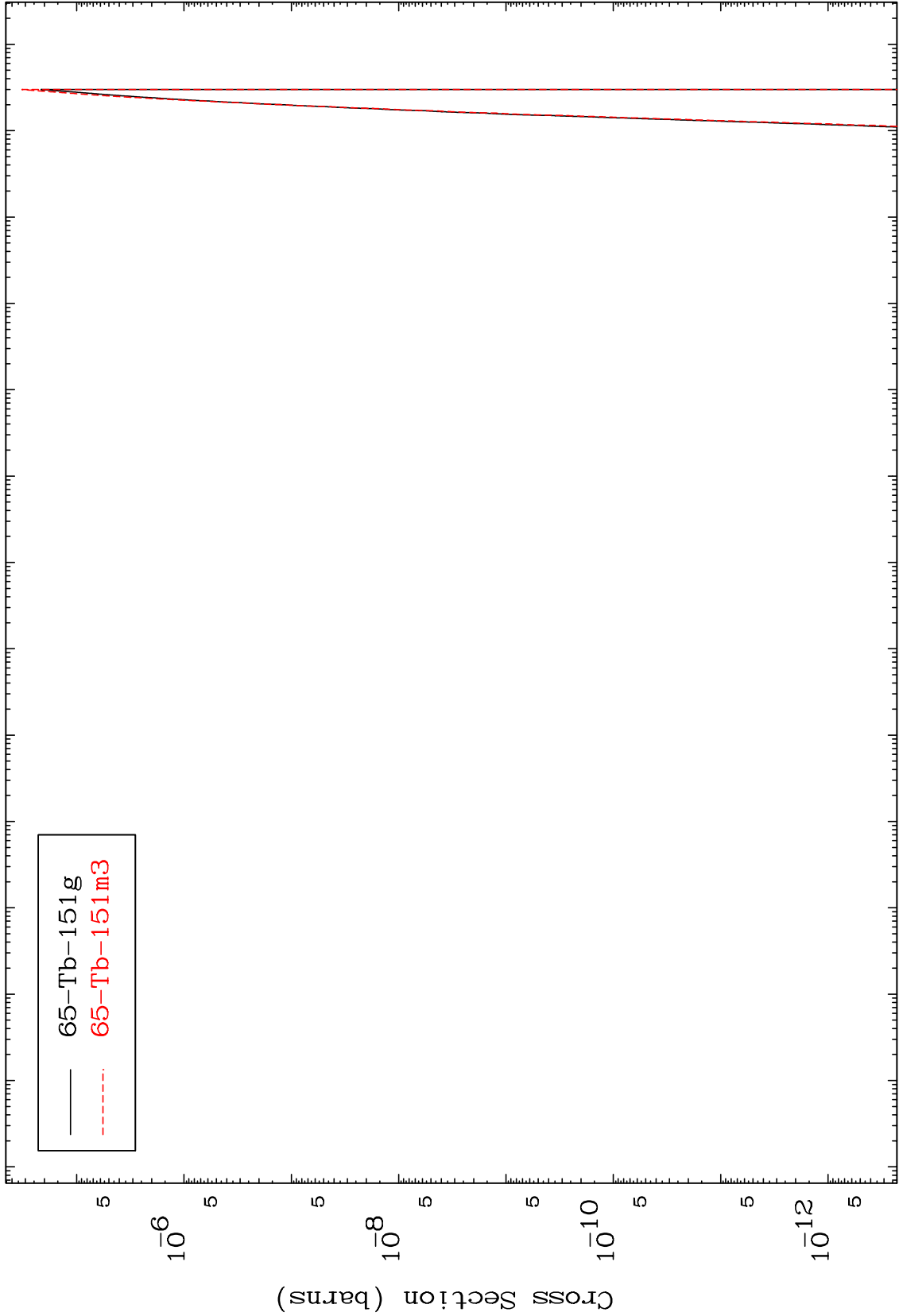
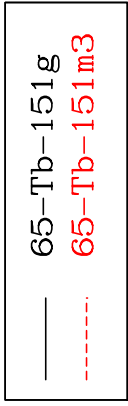
69-Tm-159

MAT 6895

(n,n') 2α

69-Tm-159

Radionuclide Production Cross Section



69-Tm-159

10⁻²

10⁻⁴

10⁻⁶

10⁻⁸

10⁻¹⁰

10⁰

10²

Incident Energy (MeV)

69-Tm-159

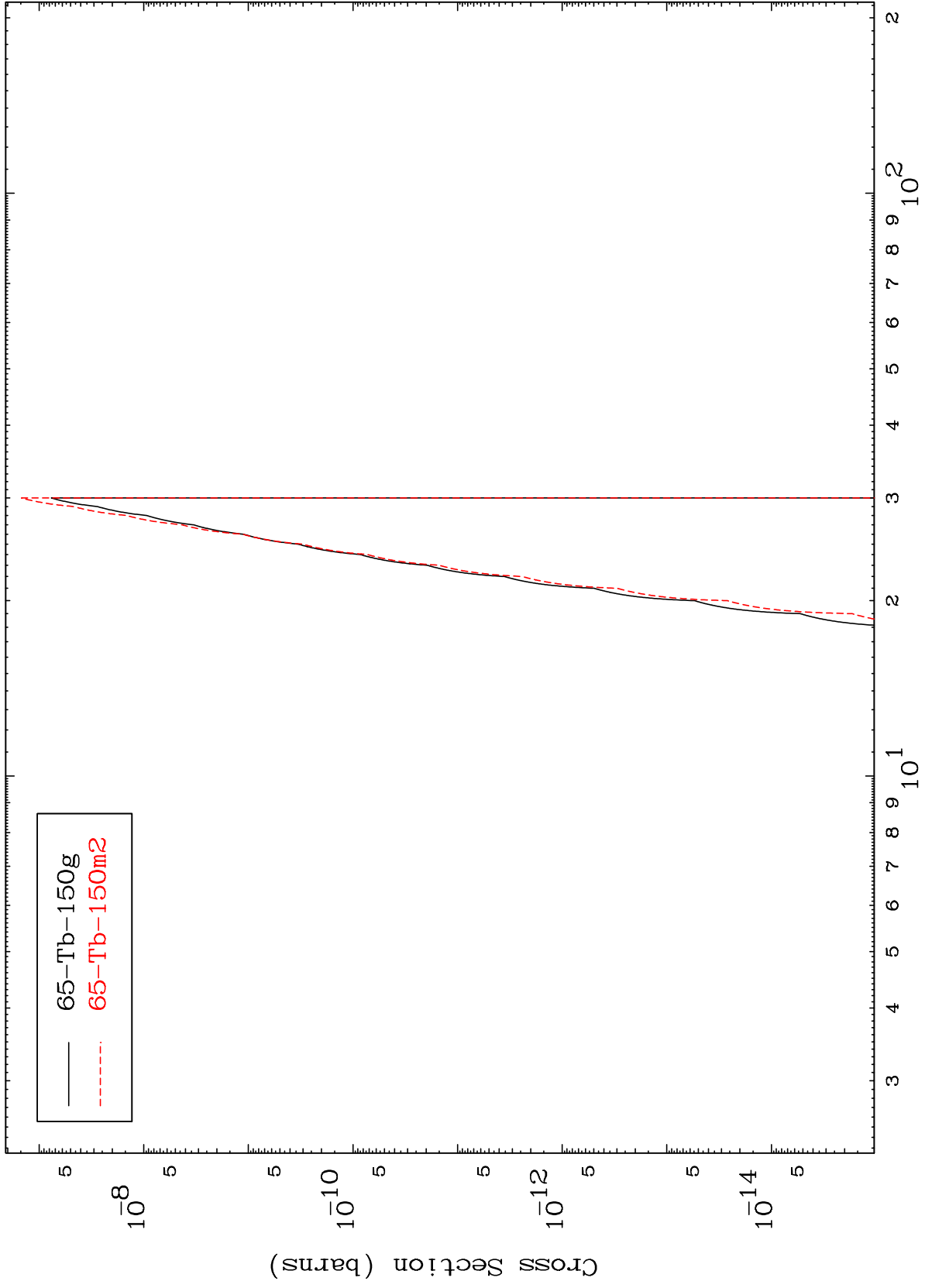
127

MAT 6895

$^{69}\text{Tm-159}$ 2α

$^{69}\text{Tm-159}$

Radionuclide Production Cross Section



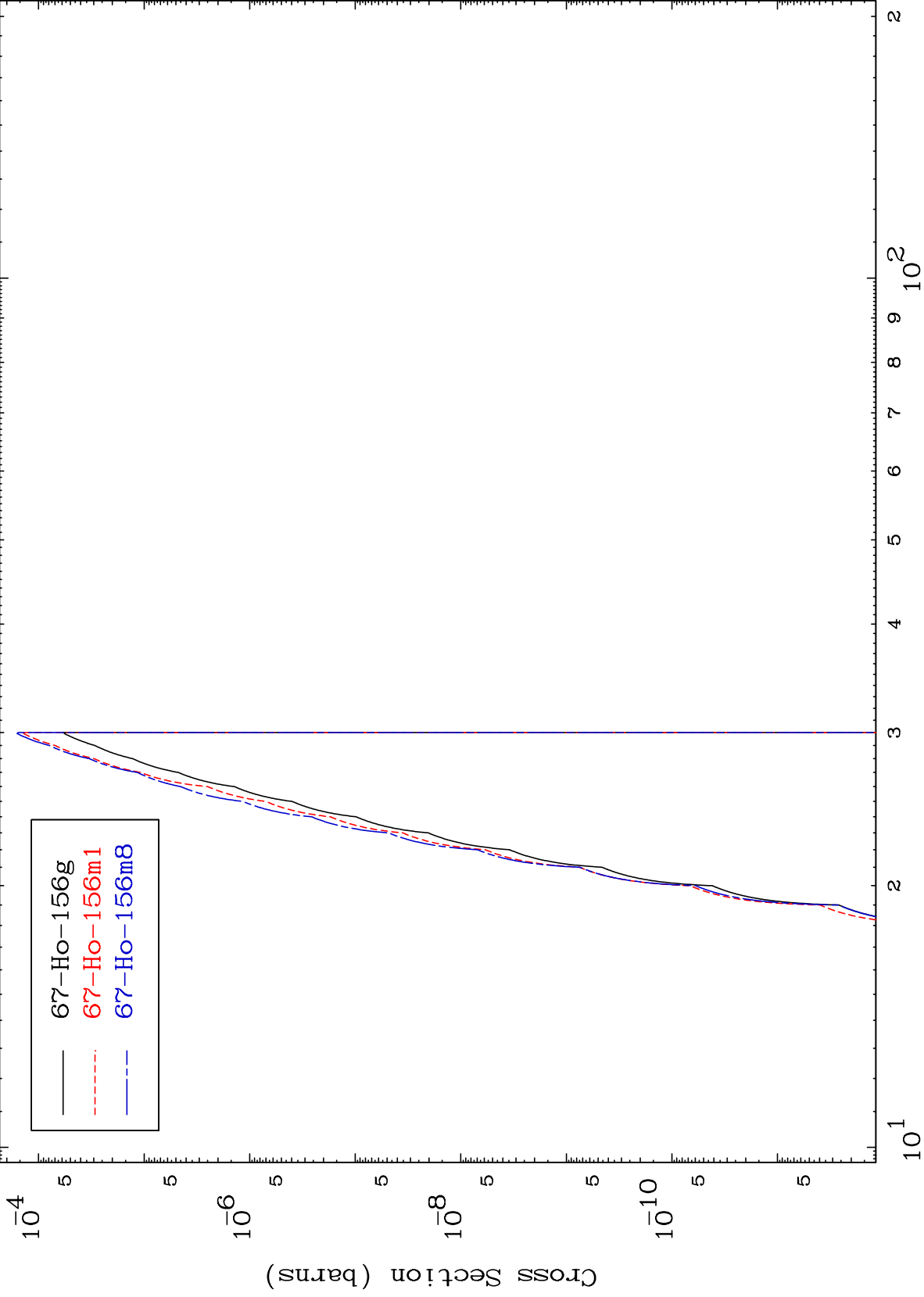
— 65-Tb-150g
- - - 65-Tb-150mg

MAT 6895

(n,n') He-3

69-Tm-159

Radionuclide Production Cross Section



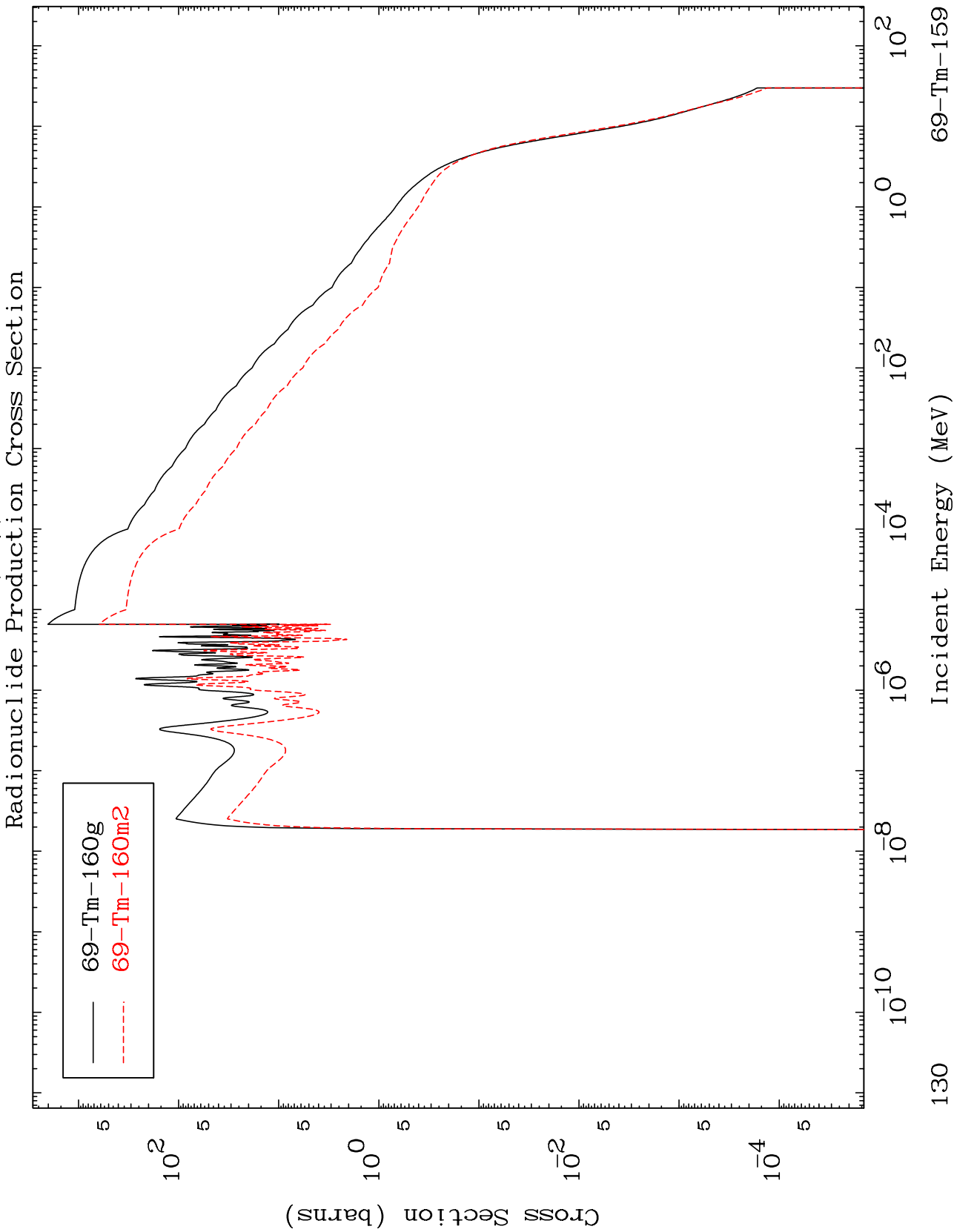
Incident Energy (MeV)

69-Tm-159

129

MAT 6895

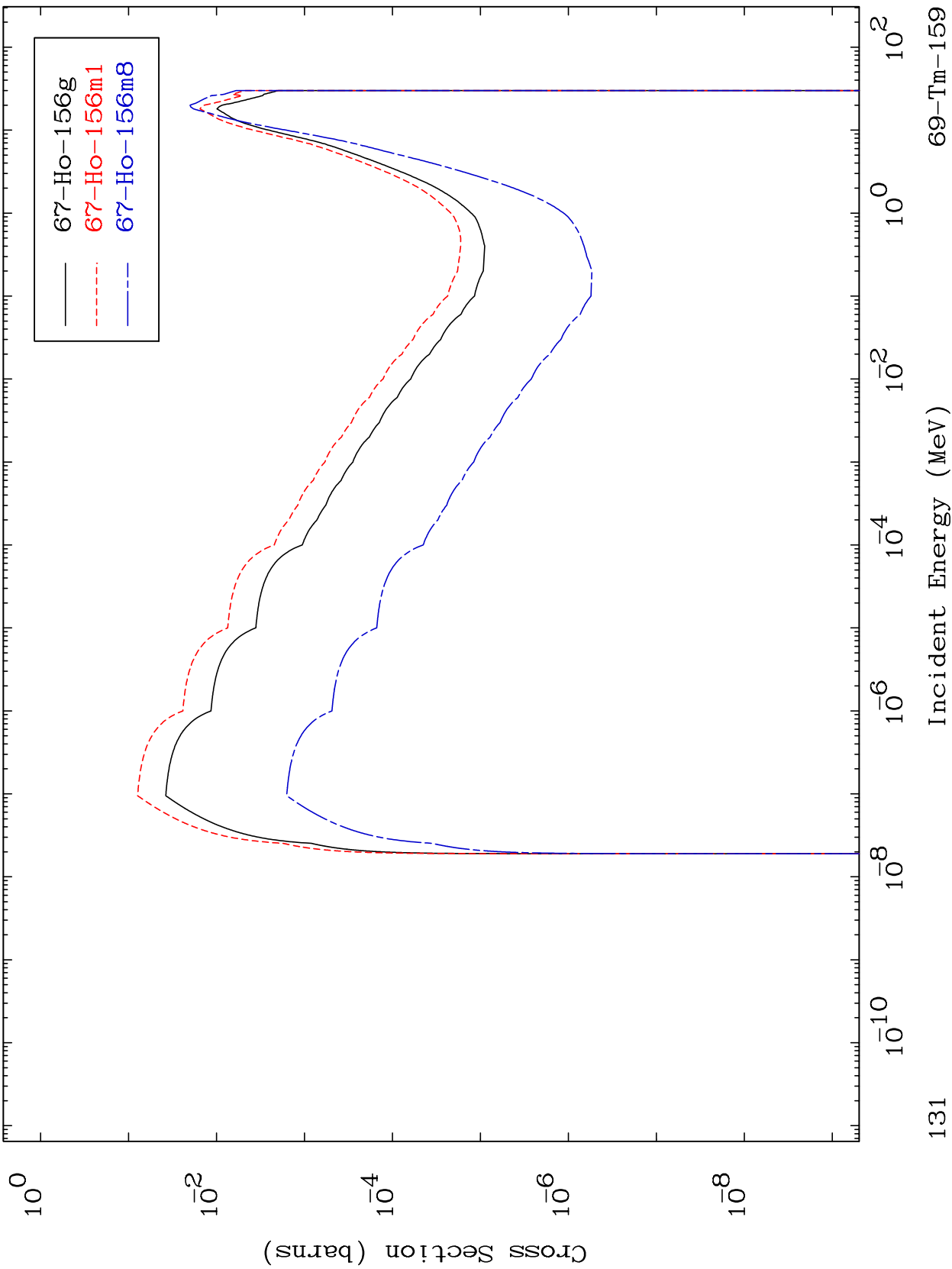
69-Tm-159



MAT 6895

69-Tm-159

(n, α)
Radionuclide Production Cross Section



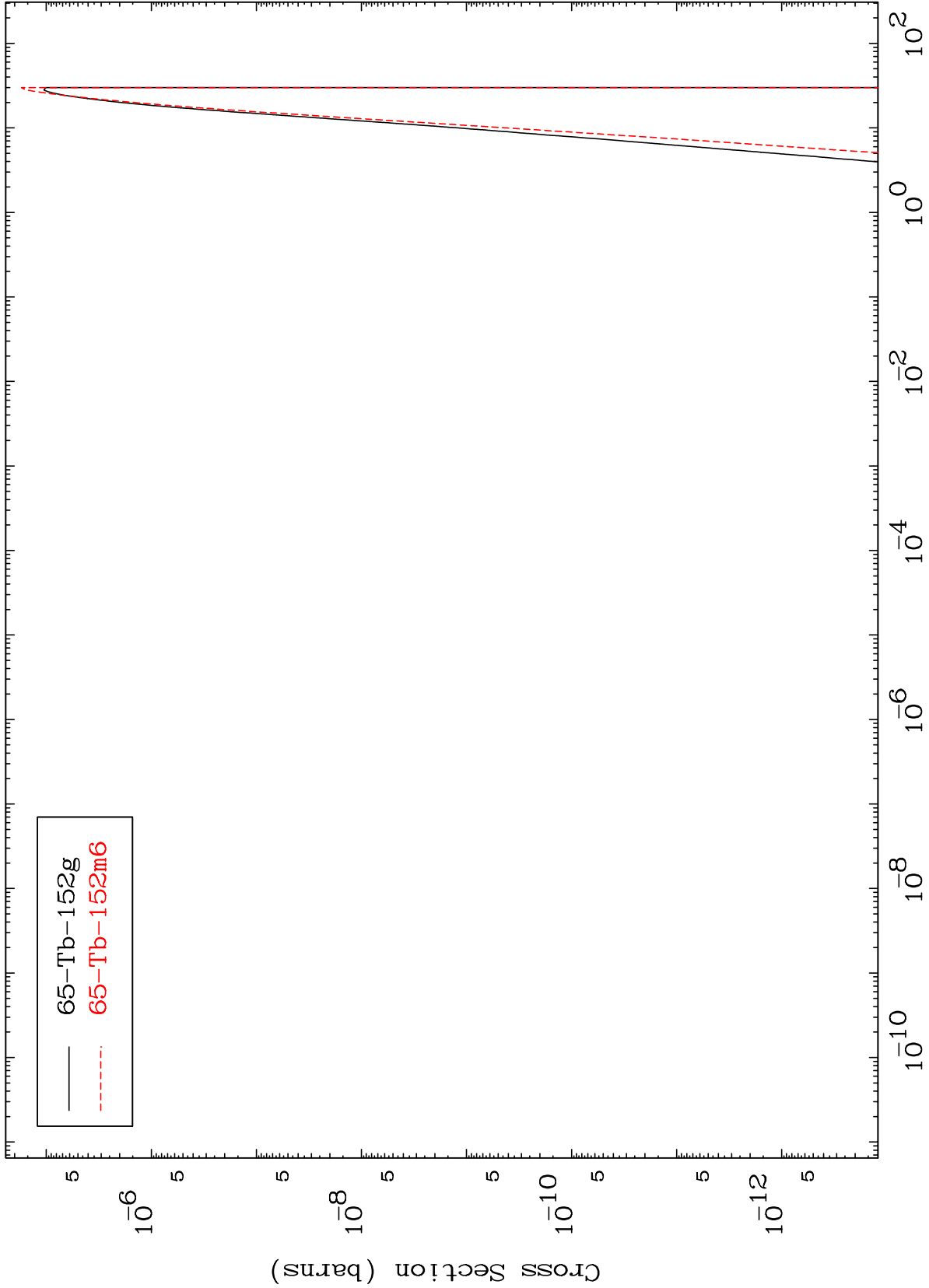
131

MAT 6895

(n,2α)

69-Tm-159

Radionuclide Production Cross Section



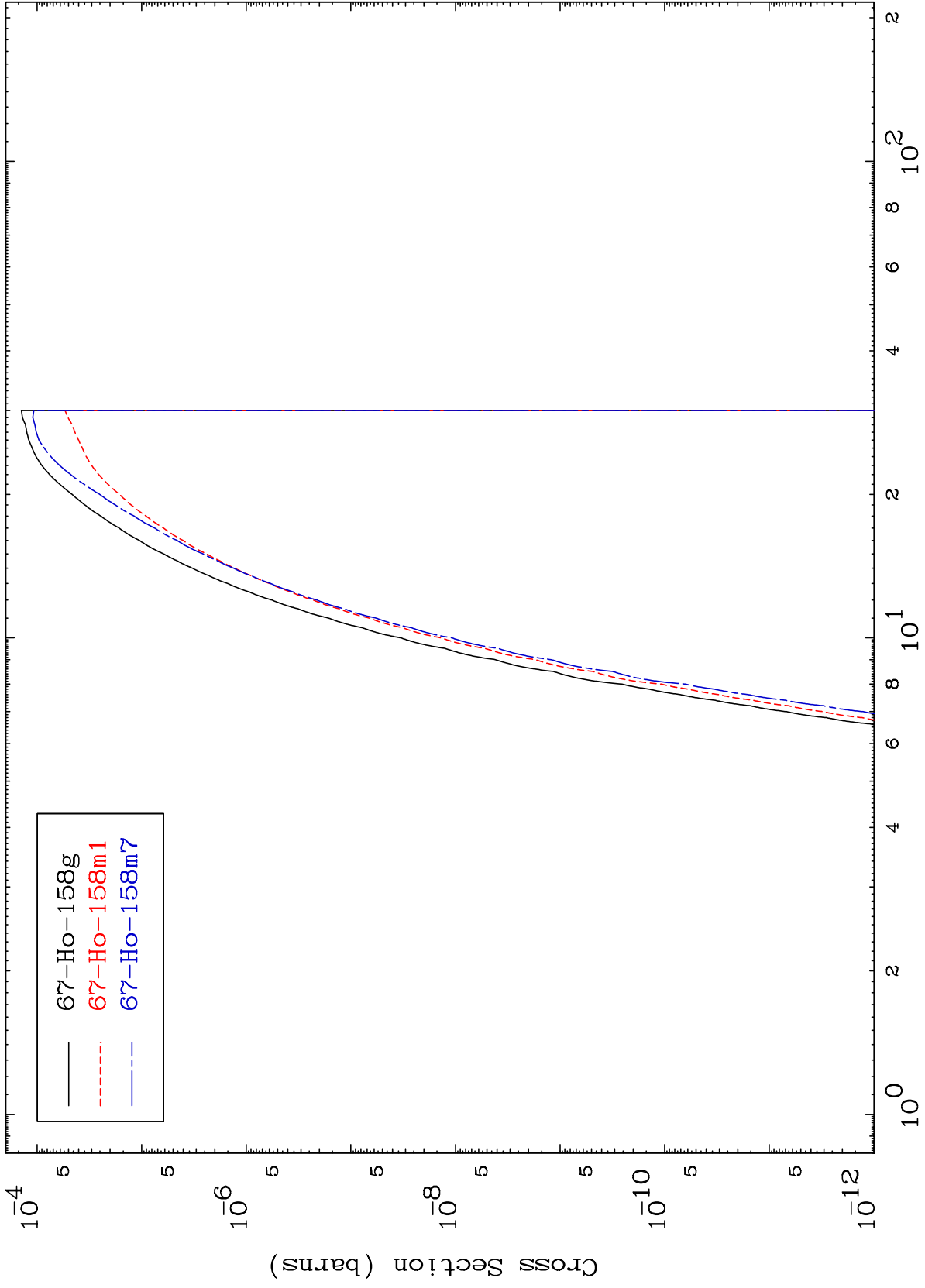
69-Tm-159

MAT 6895

(n,2p)

69-Tm-159

Radionuclide Production Cross Section



133

Incident Energy (MeV)

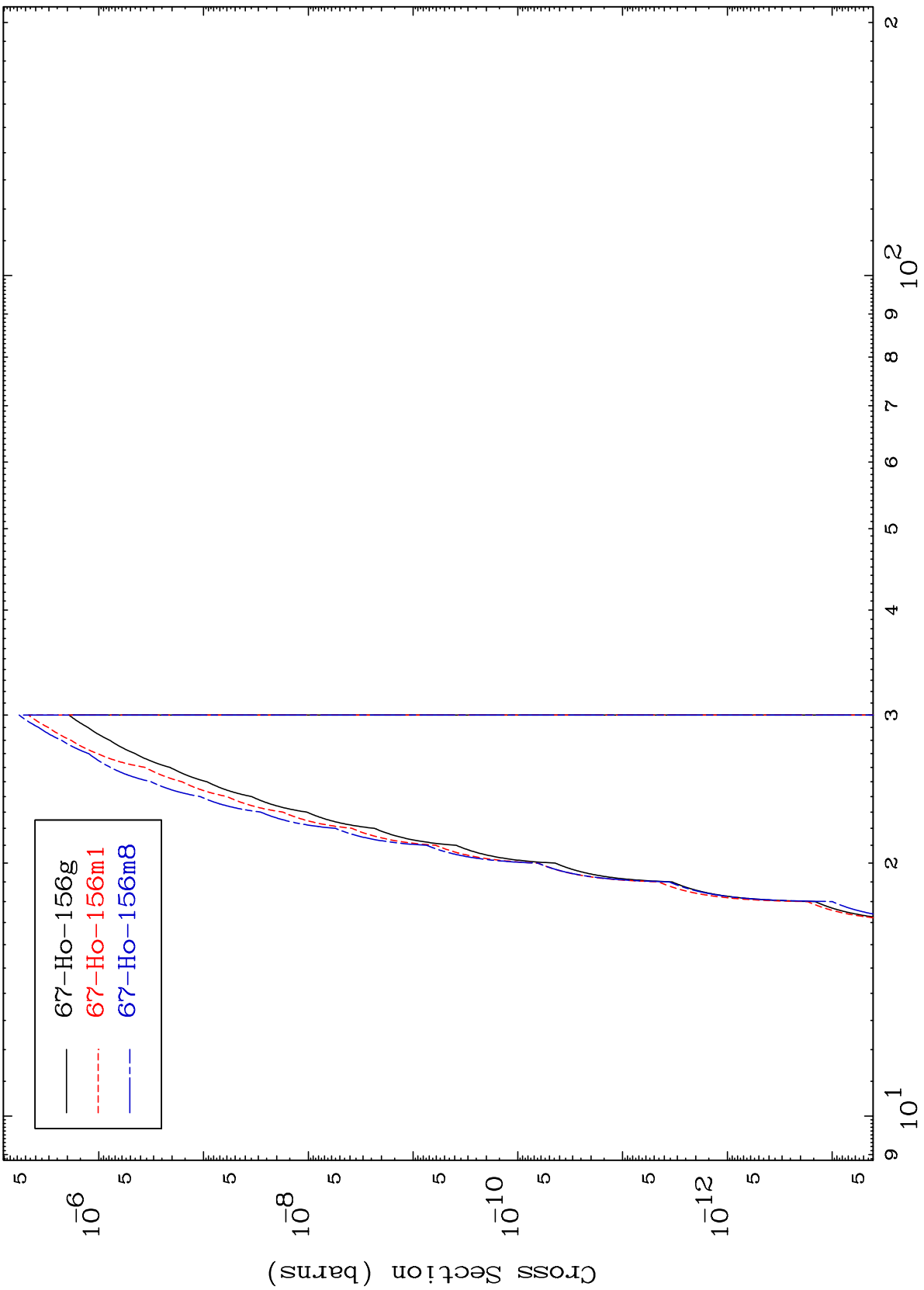
69-Tm-159

MAT 6895

(n,p) t

69-Tm-159

Radionuclide Production Cross Section



Incident Energy (MeV)

69-Tm-159

134