

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

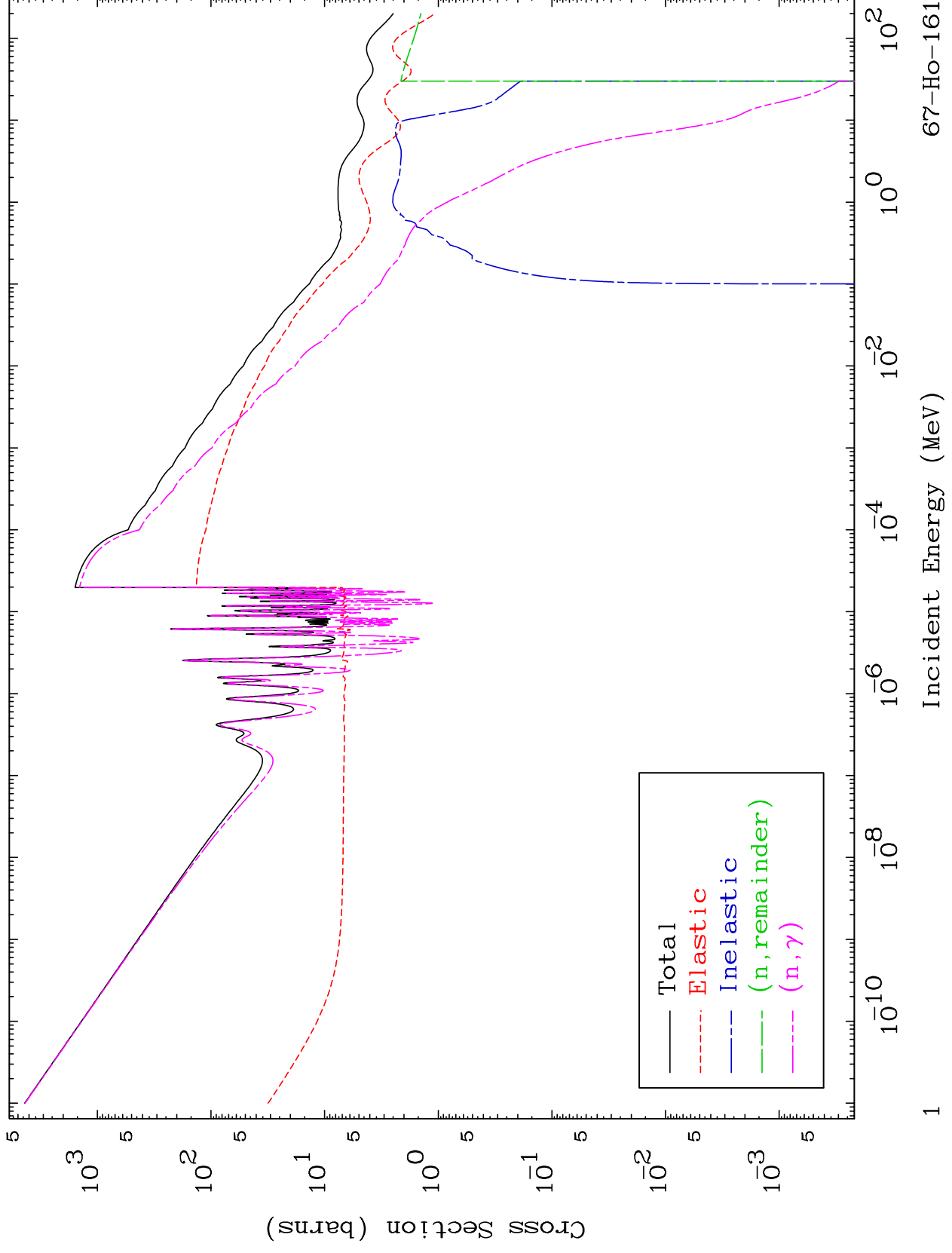
Press Mouse Button to Start

MAT 6713

Major

293 Kelvin Cross Sections

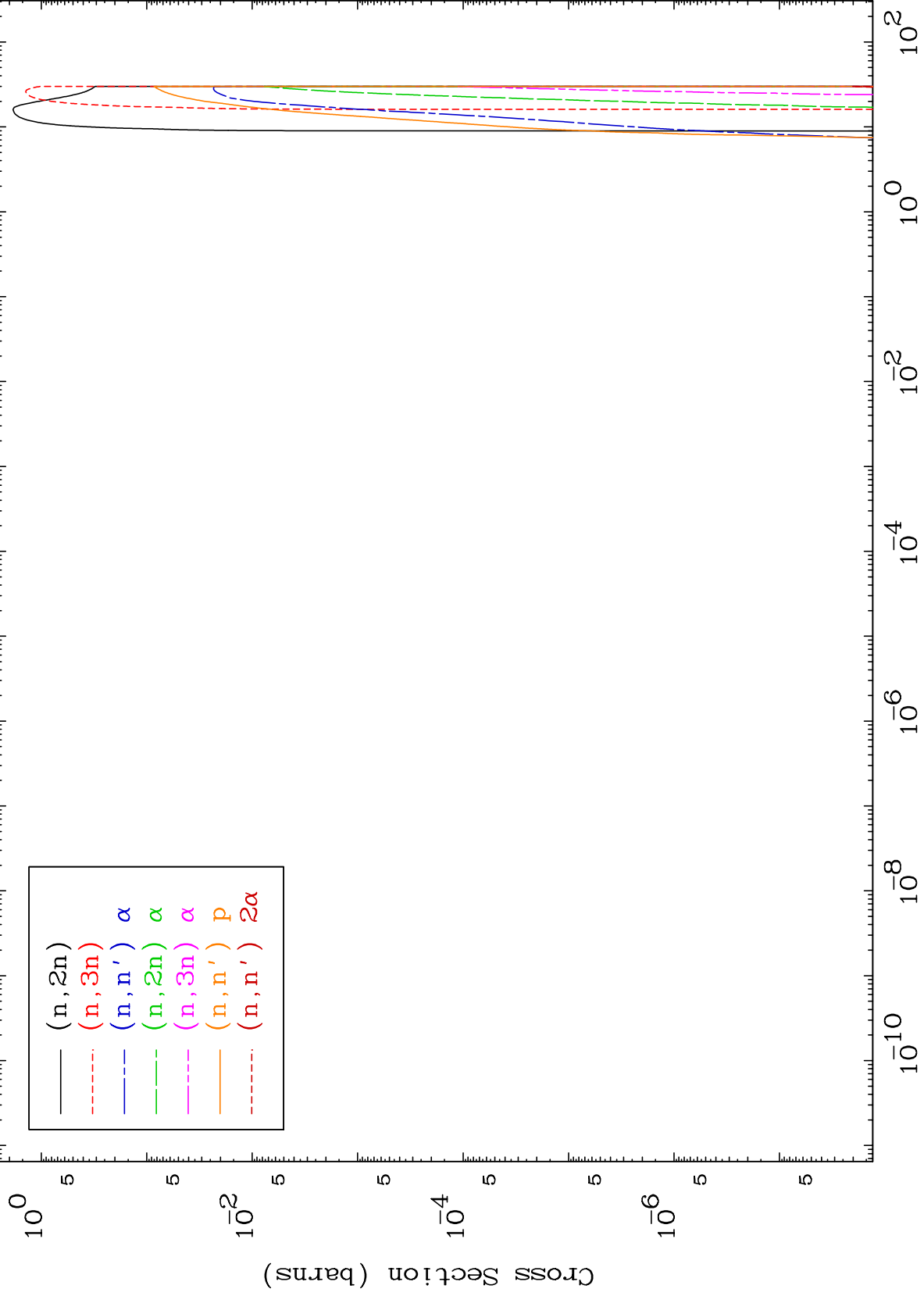
67-Ho-161

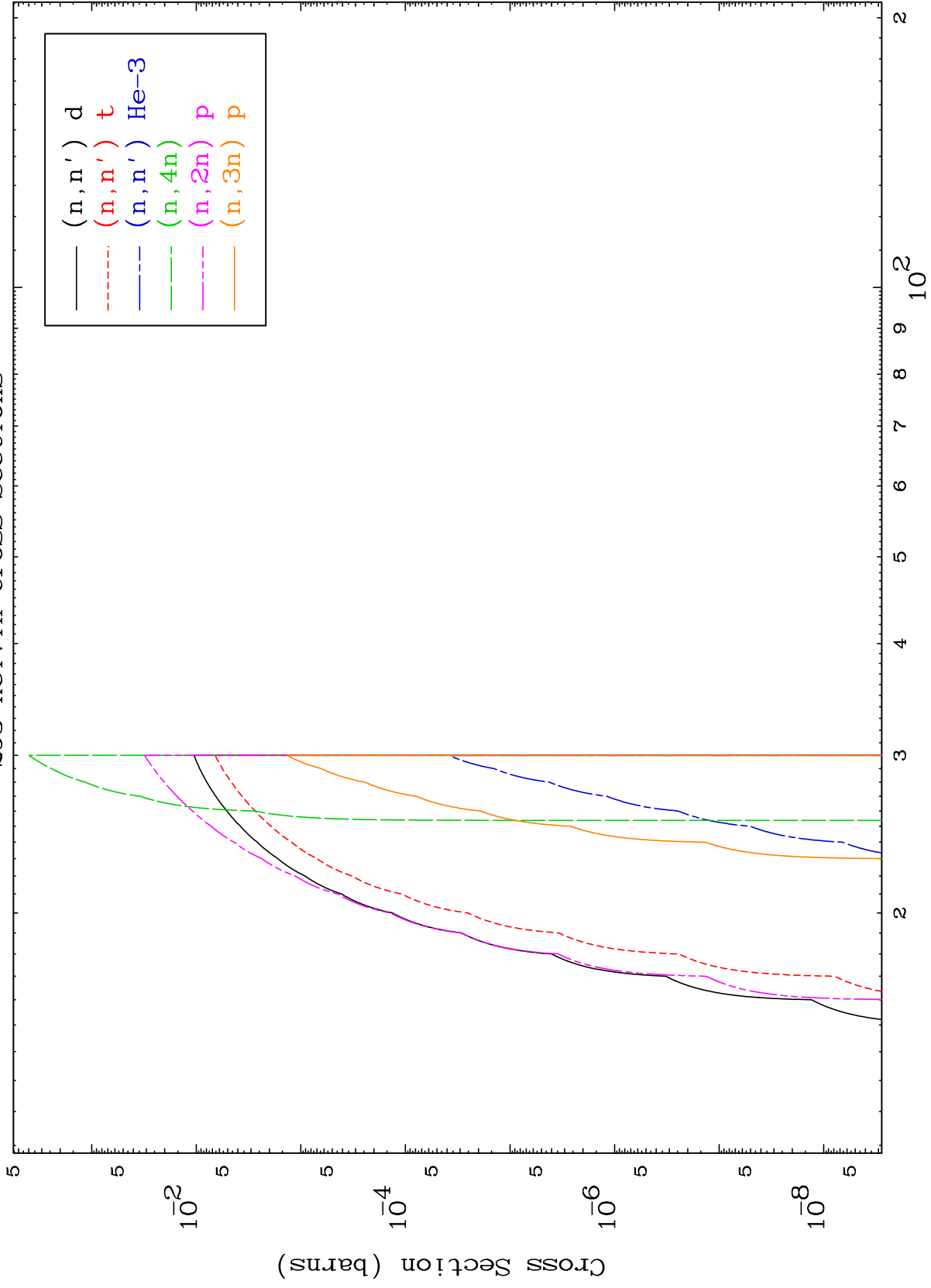


MAT 6713

Neutron Production
293 Kelvin Cross Sections

67-Ho-161

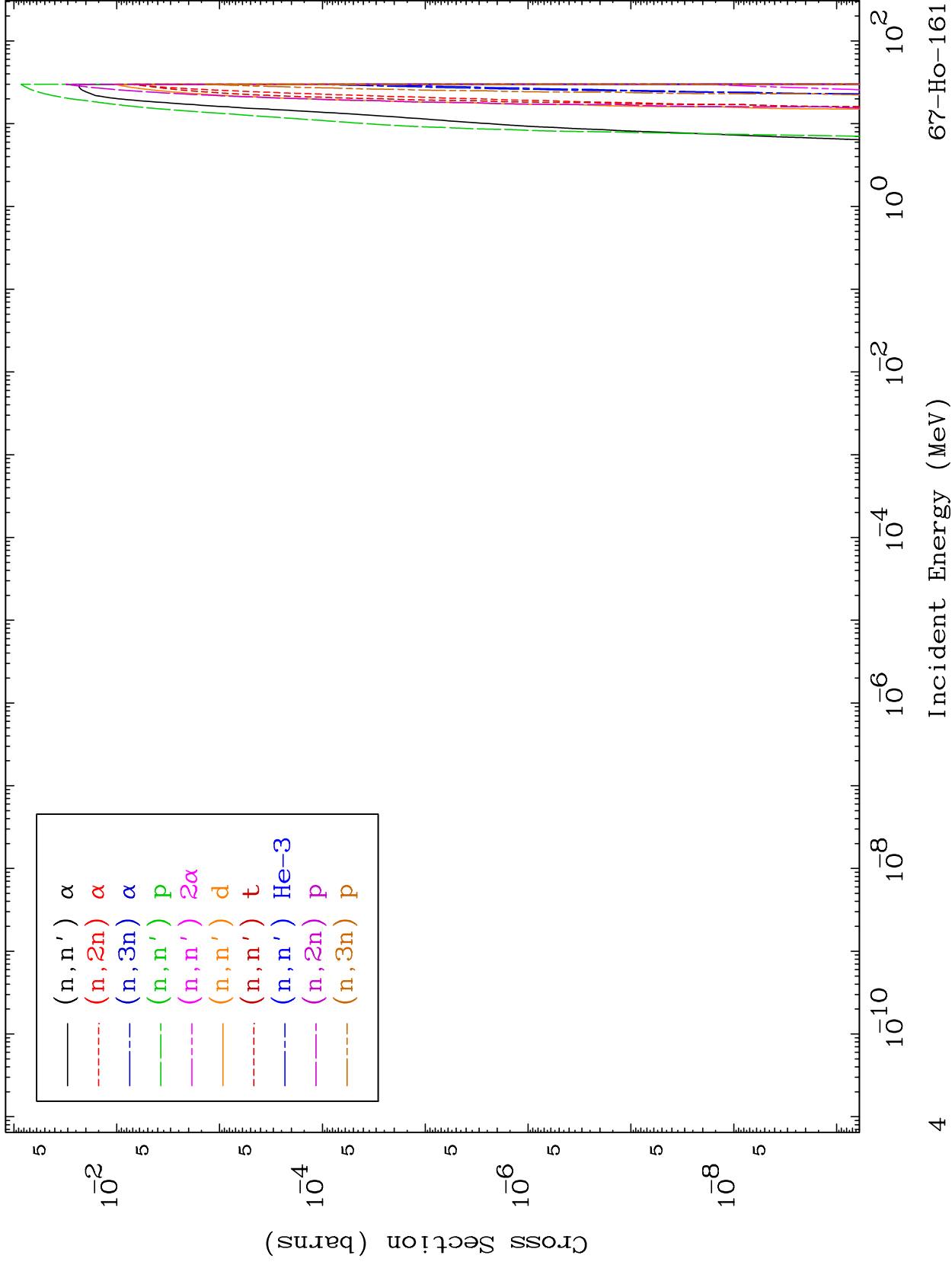




MAT 6713

Charged Particle
293 Kelvin Cross Sections

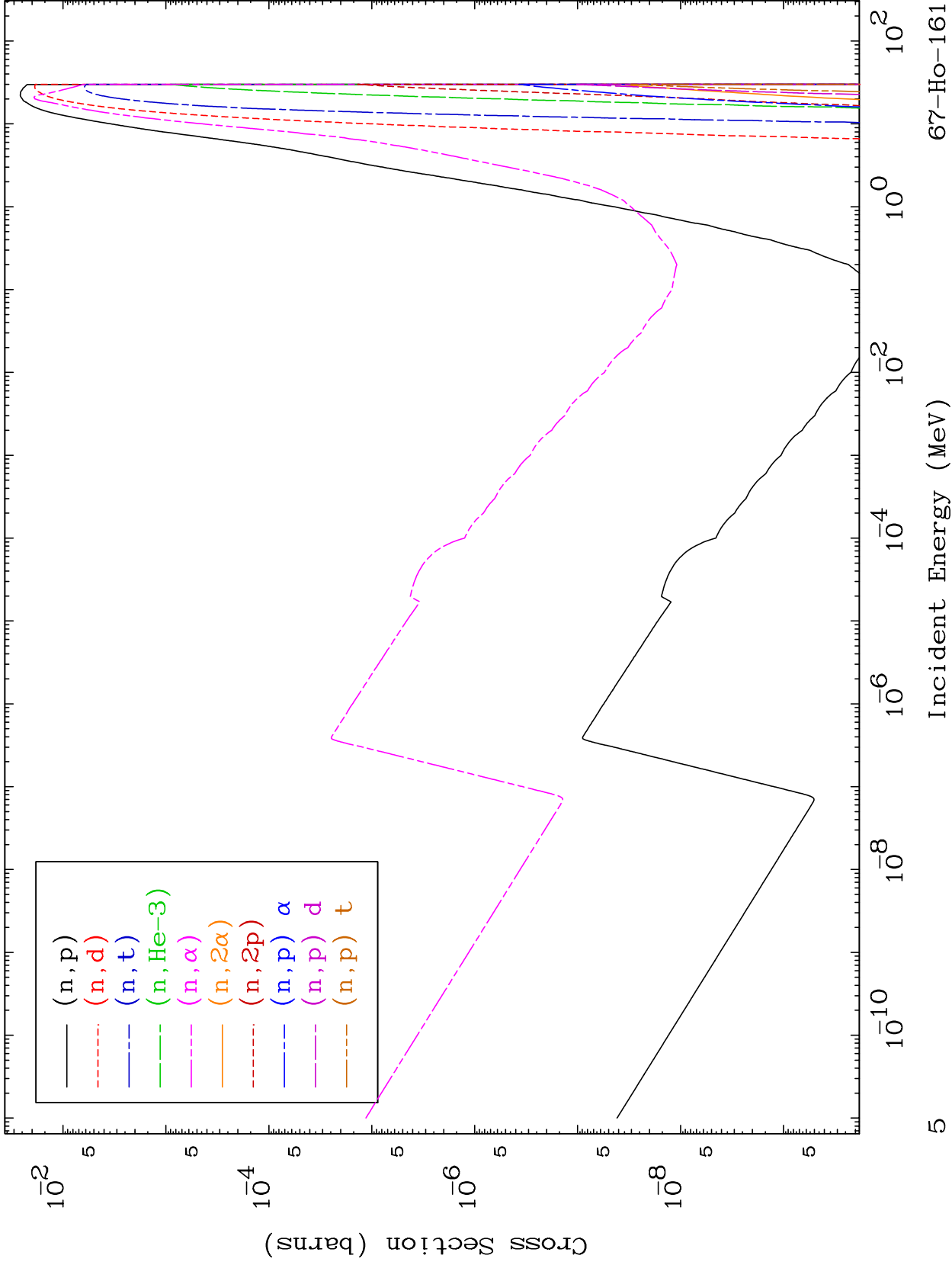
67-Ho-161

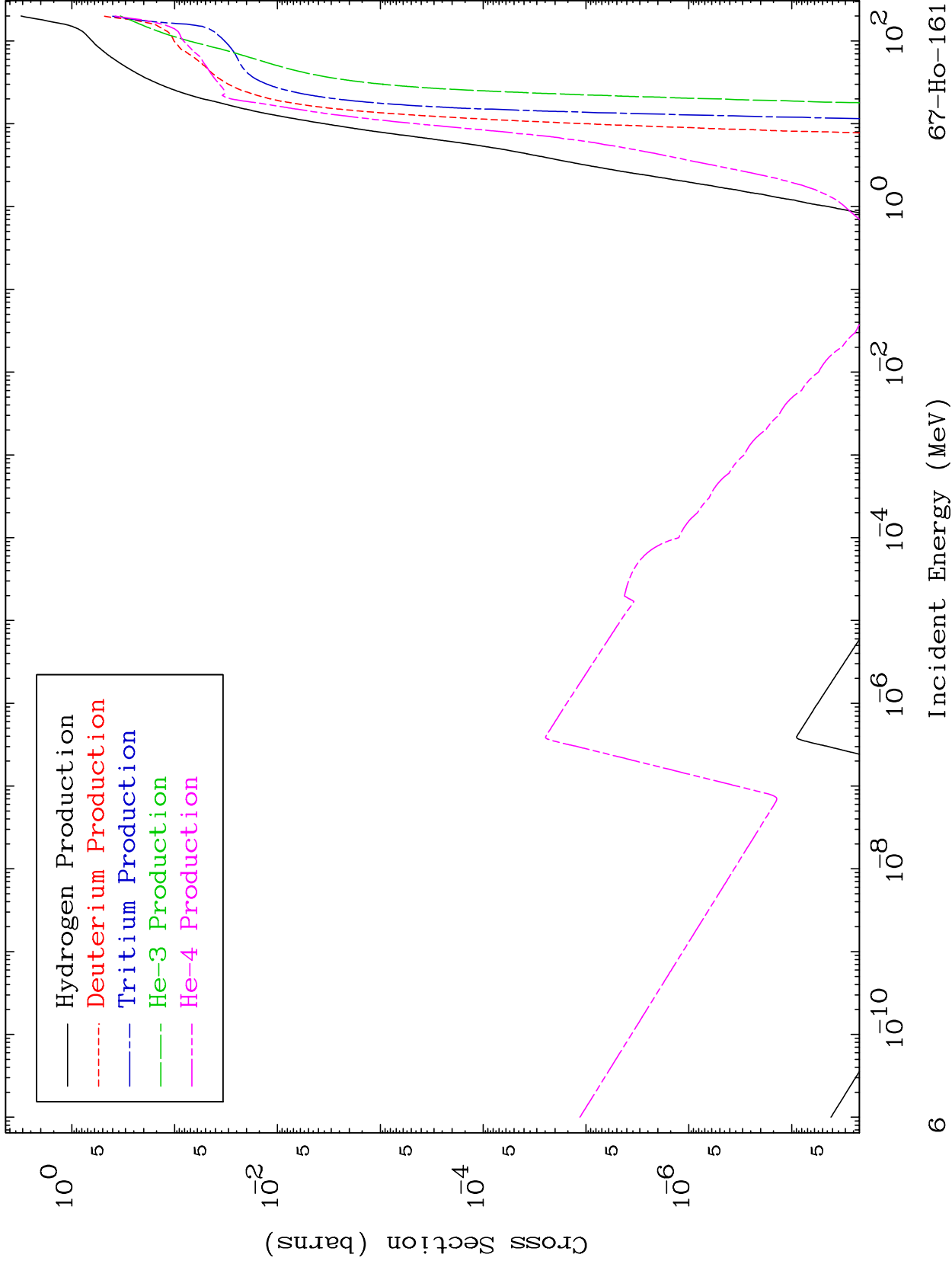


MAT 6713

Charged Particle
293 Kelvin Cross Sections

67-Ho-161



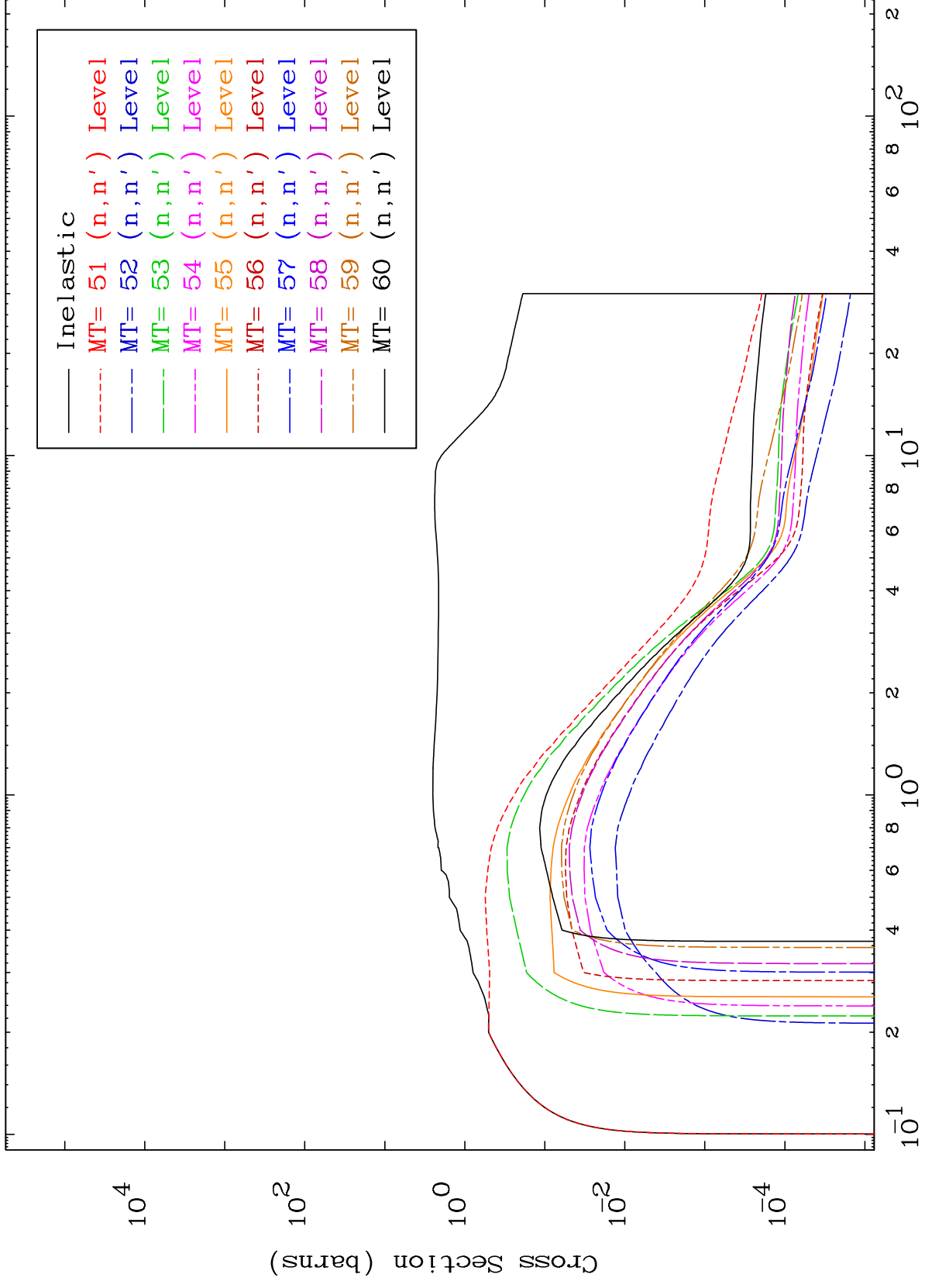


MAT 6713

(n,n') Level

67-Ho-161

293 Kelvin Cross Sections



Incident Energy (MeV)

67-Ho-161

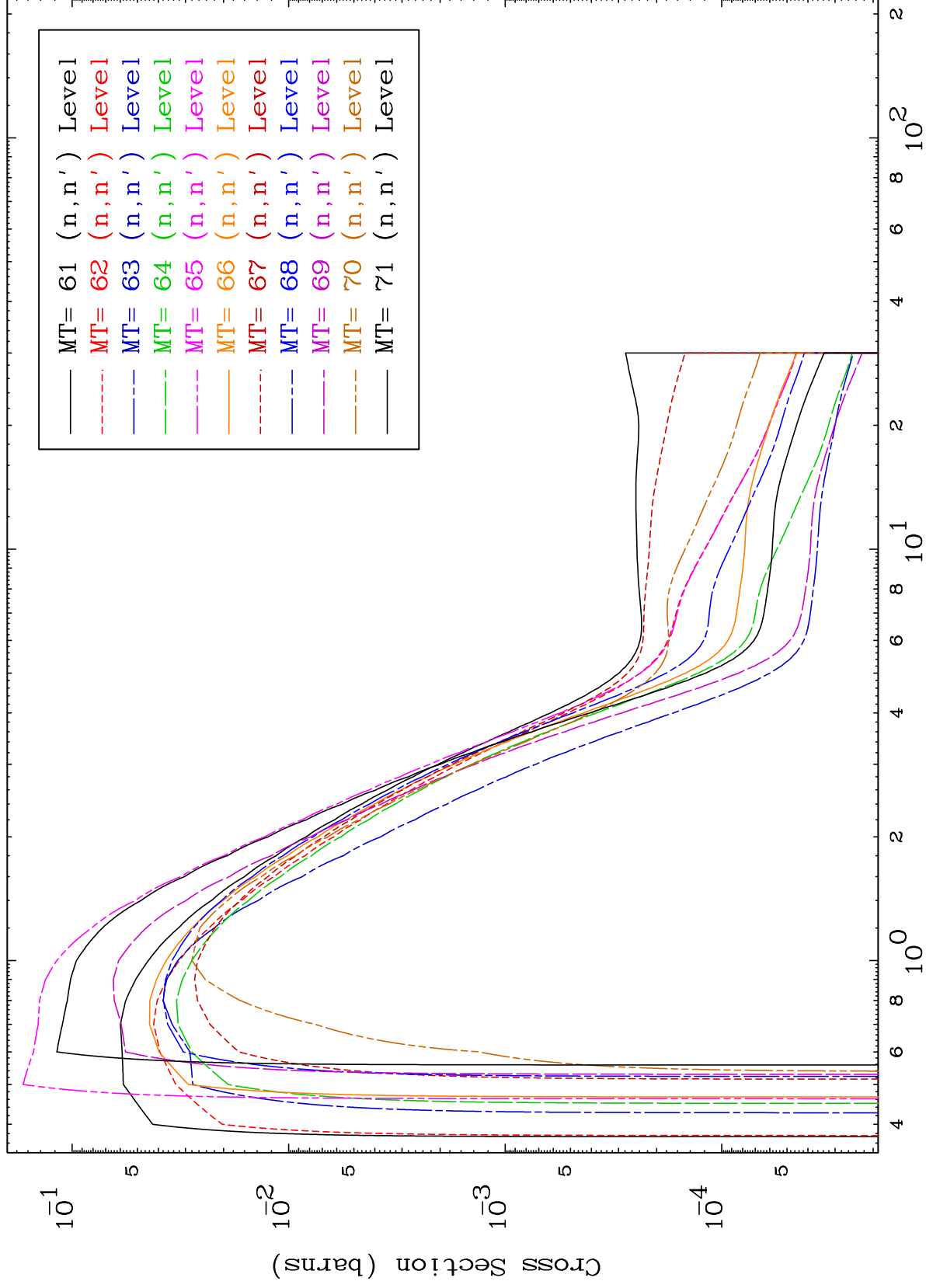
7

MAT 6713

(n,n') Level

293 Kelvin Cross Sections

67-Ho-161



8

Incident Energy (MeV)

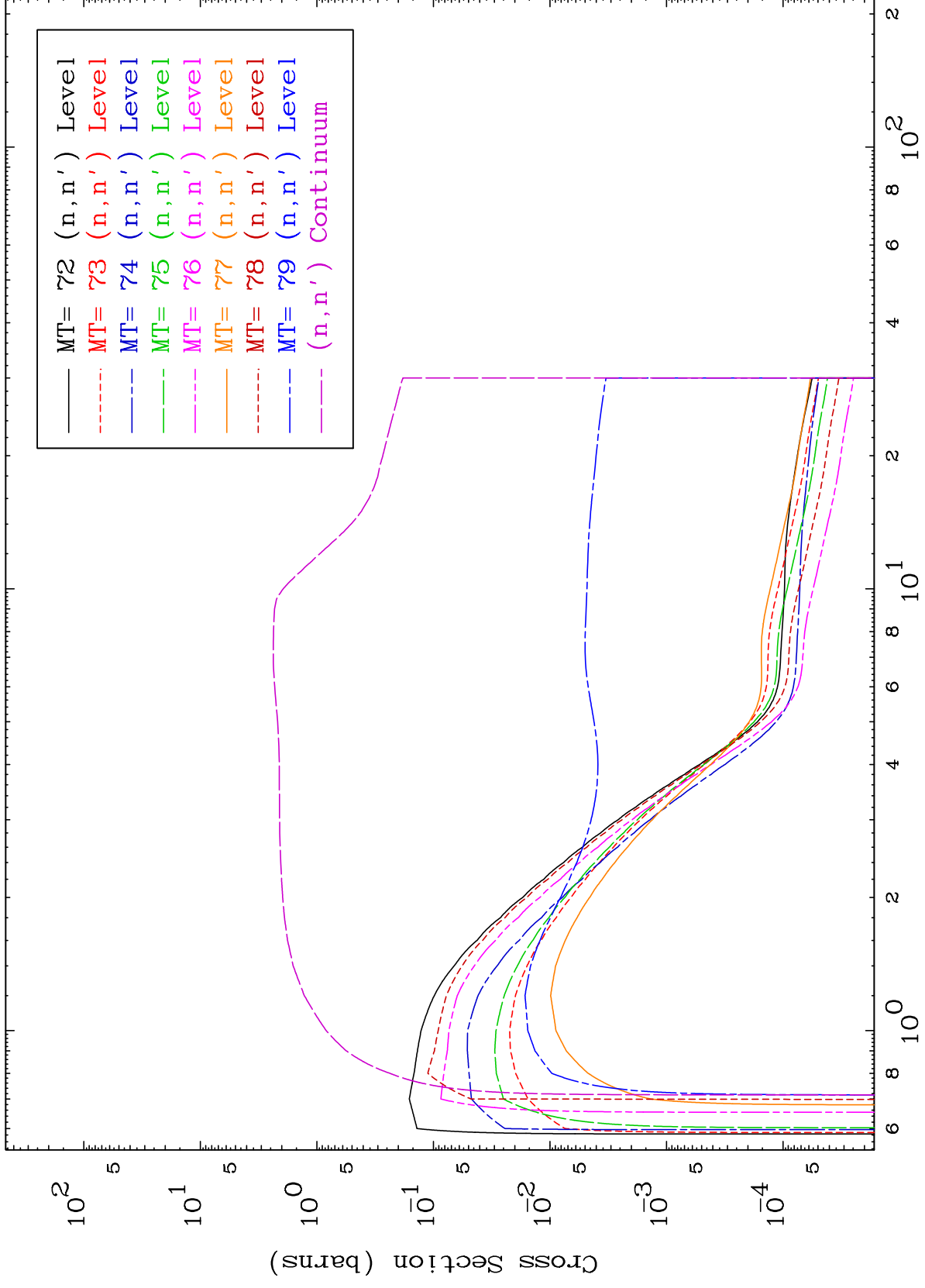
67-Ho-161

MAT 6713

(n,n') Level

67-Ho-161

293 Kelvin Cross Sections



9

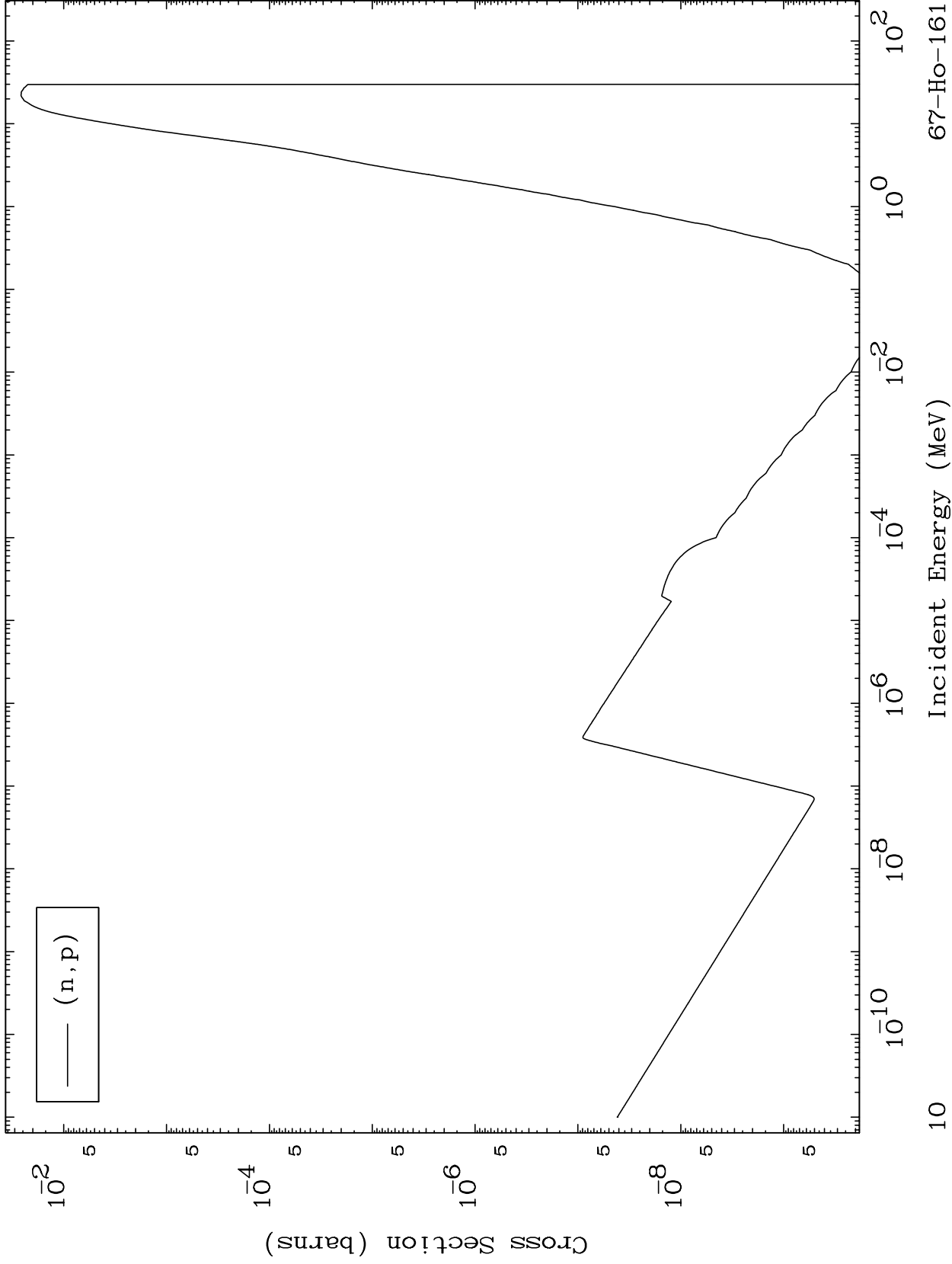
Incident Energy (MeV)

67-Ho-161

MAT 6713

(n,p) Levels
293 Kelvin Cross Sections

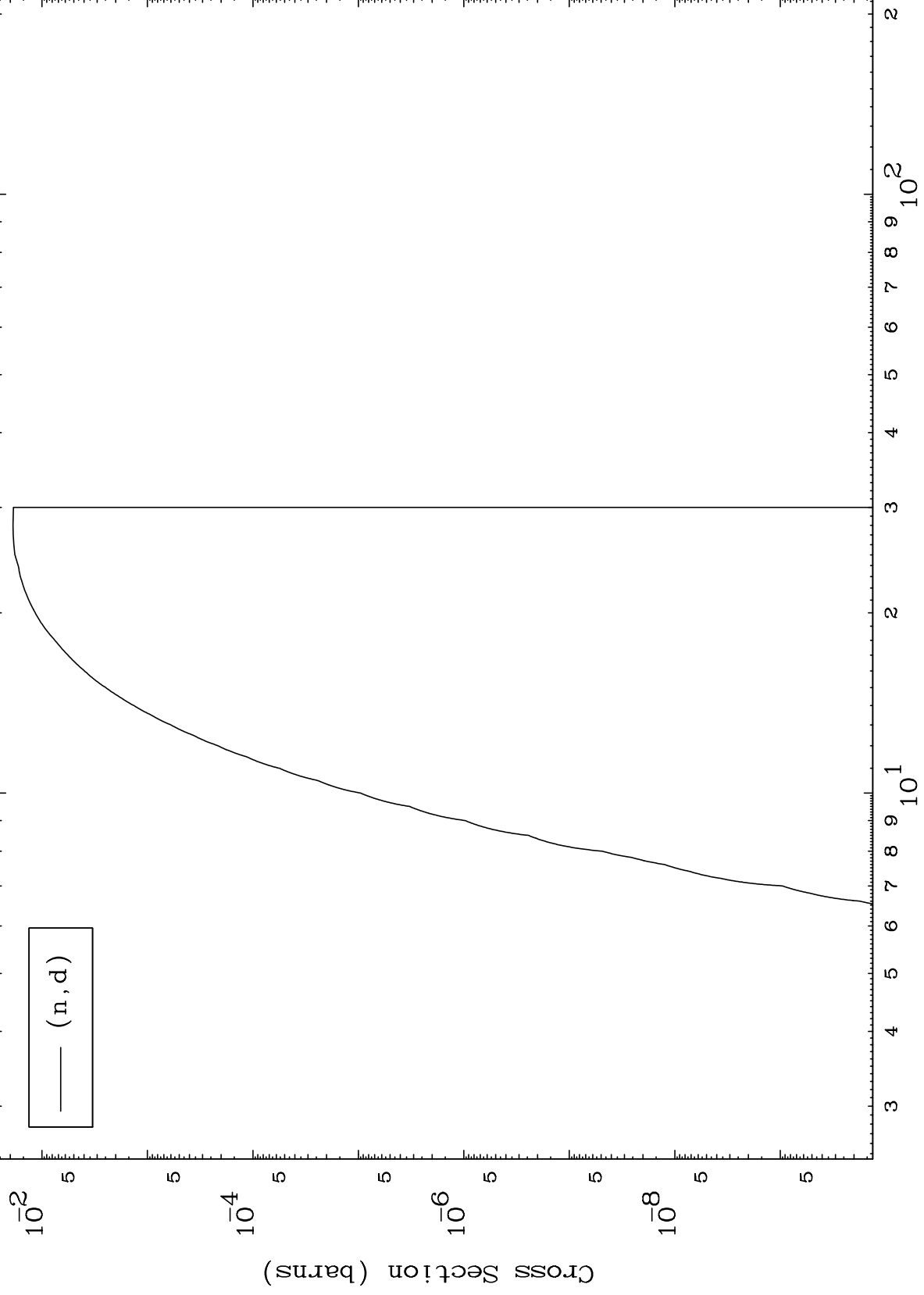
67-Ho-161



MAT 6713

(n,d) Levels
293 Kelvin Cross Sections

67-Ho-161



11

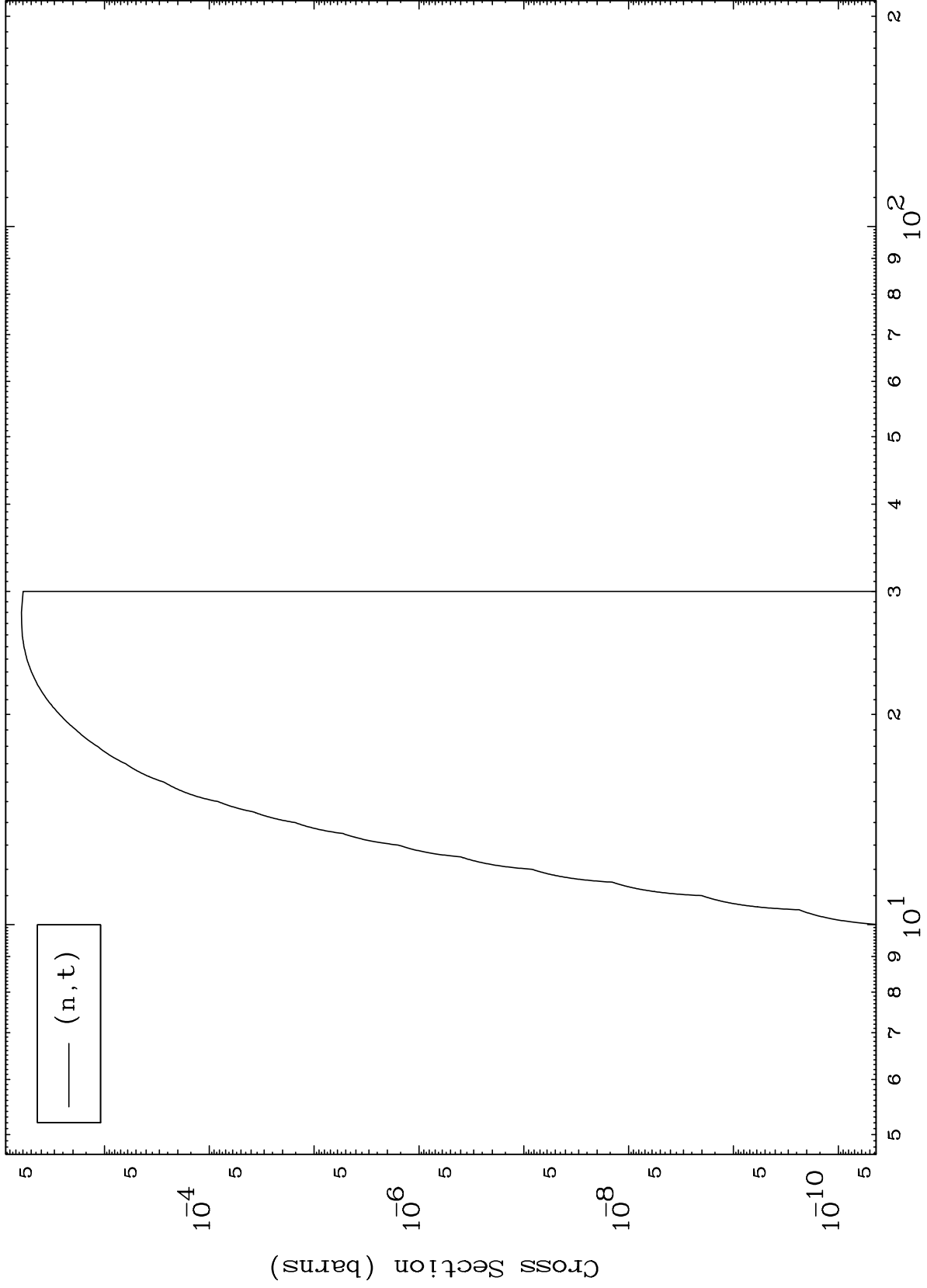
Incident Energy (MeV)

67-Ho-161

MAT 6713

(n,t) Levels
293 Kelvin Cross Sections

67-Ho-161



12

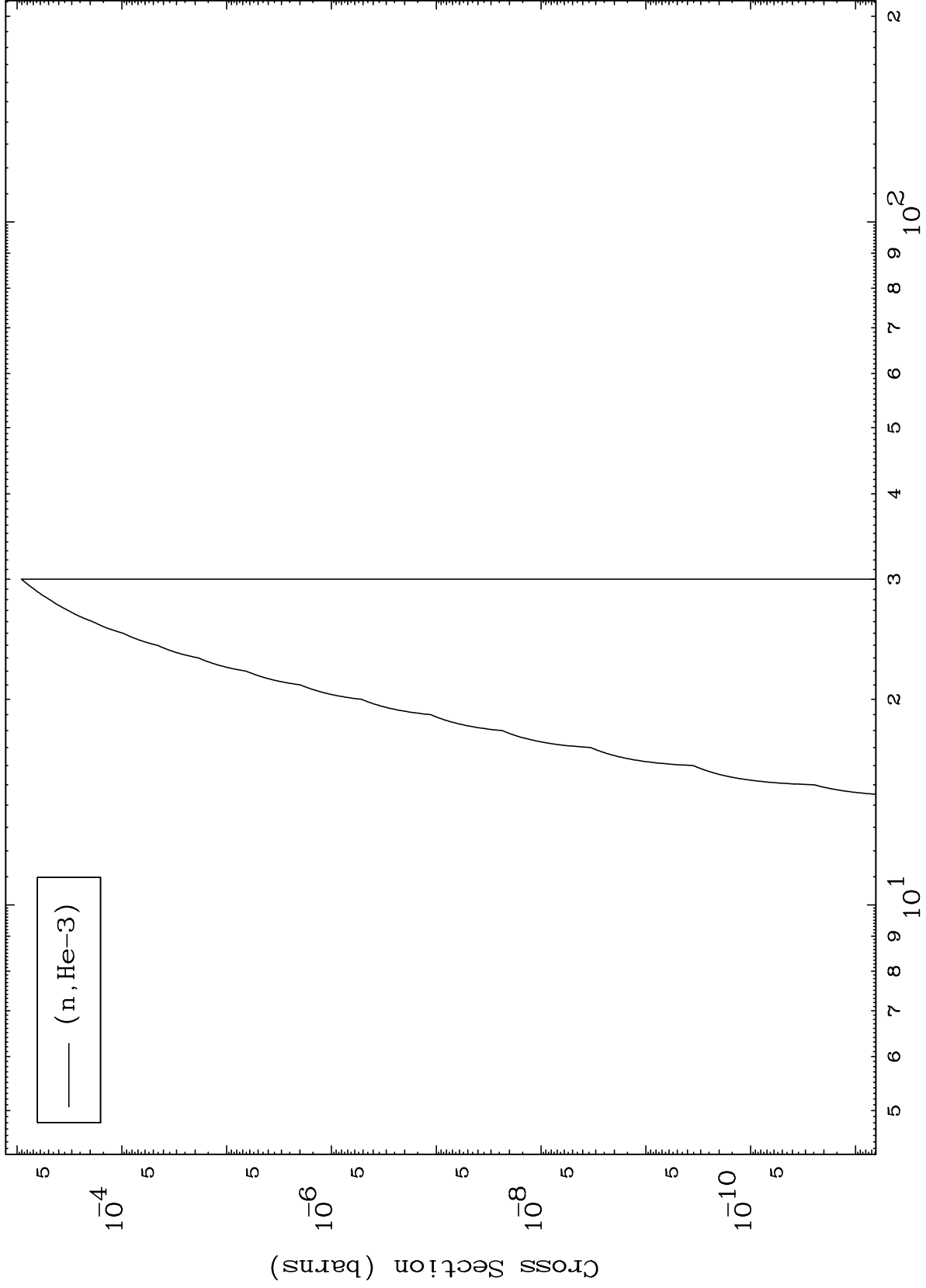
Incident Energy (MeV)

67-Ho-161

MAT 6713

(n,He3) Levels
293 Kelvin Cross Sections

67-Ho-161



13

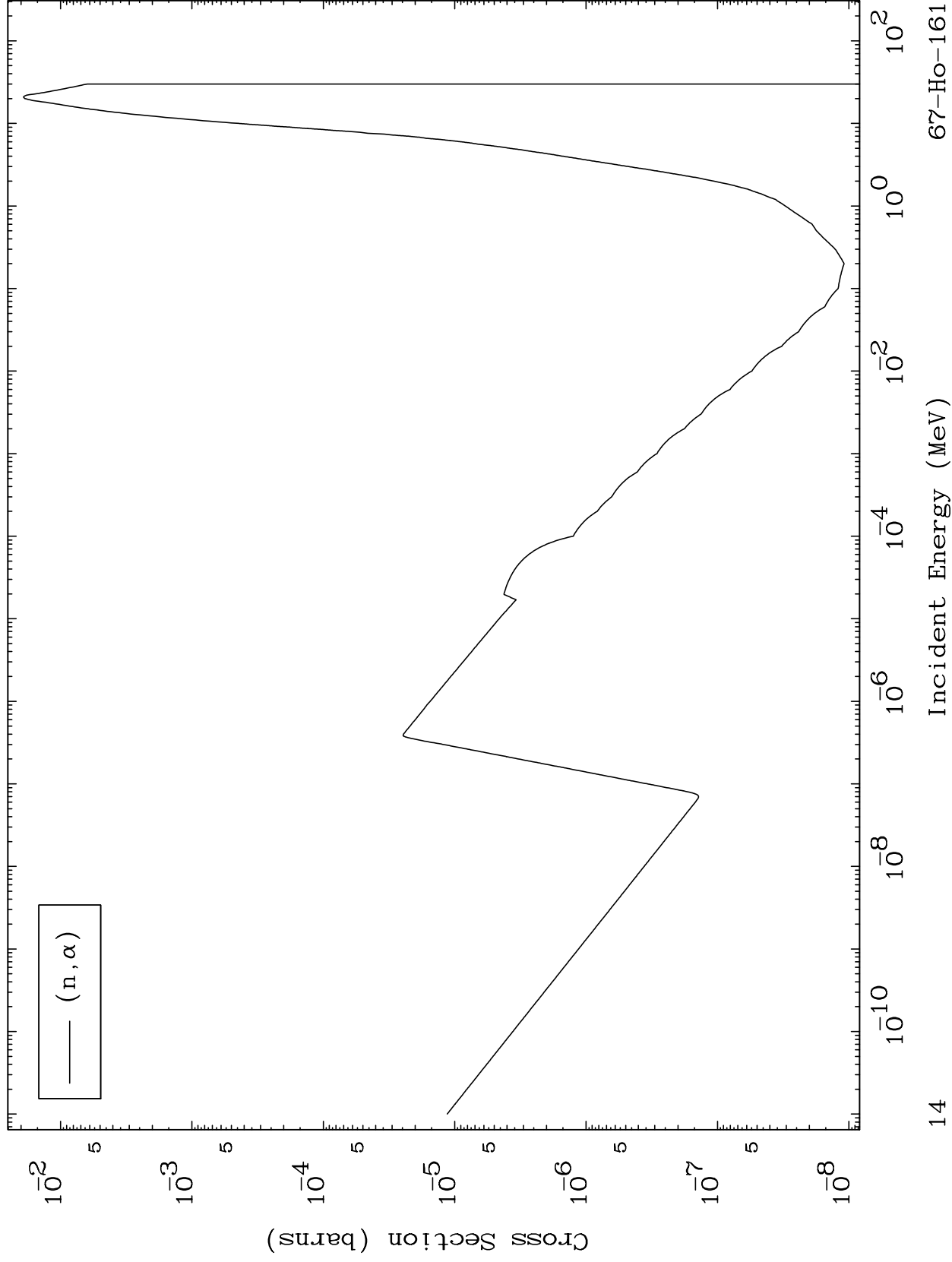
Incident Energy (MeV)

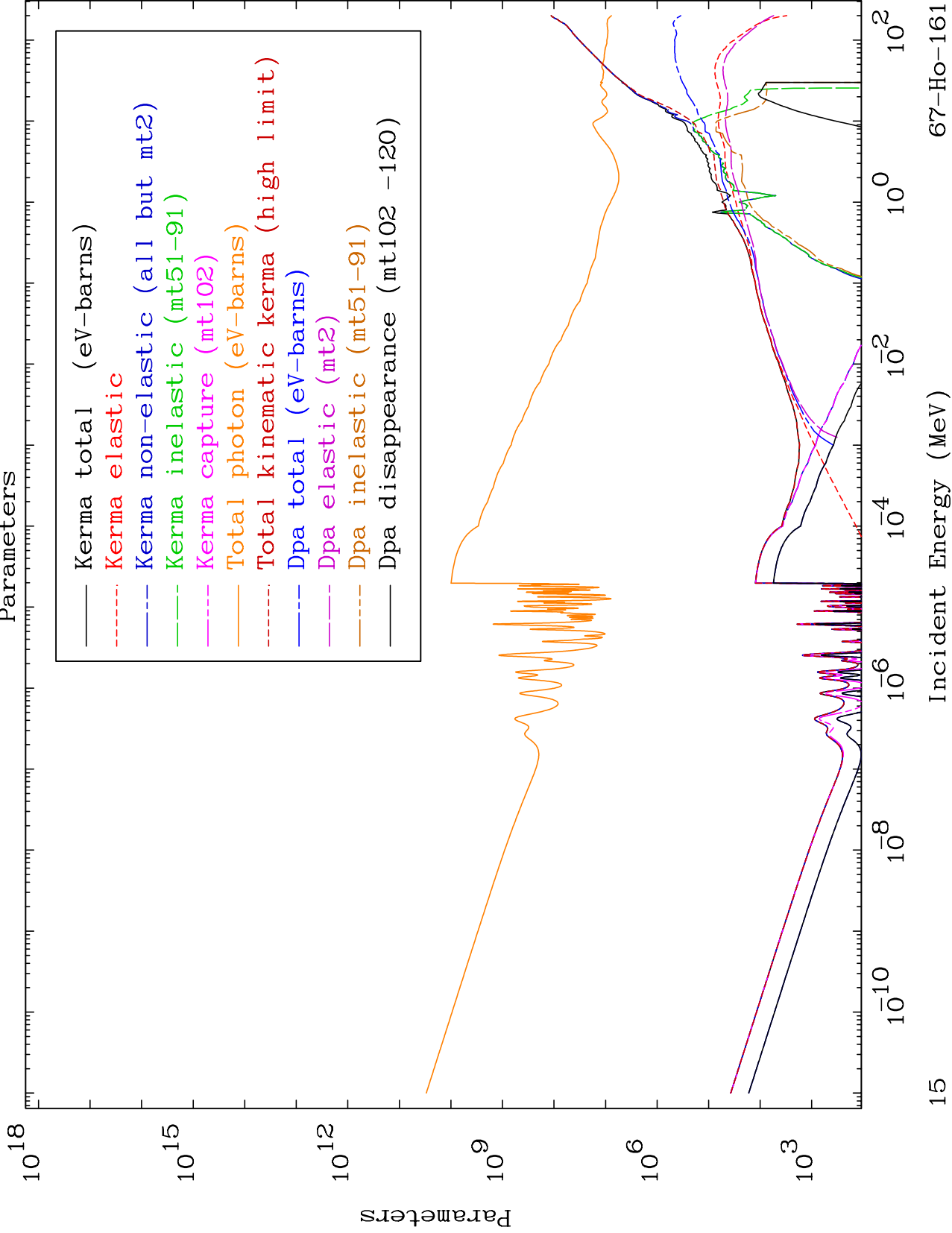
67-Ho-161

MAT 6713

(n, α) Levels
293 Kelvin Cross Sections

67-Ho-161

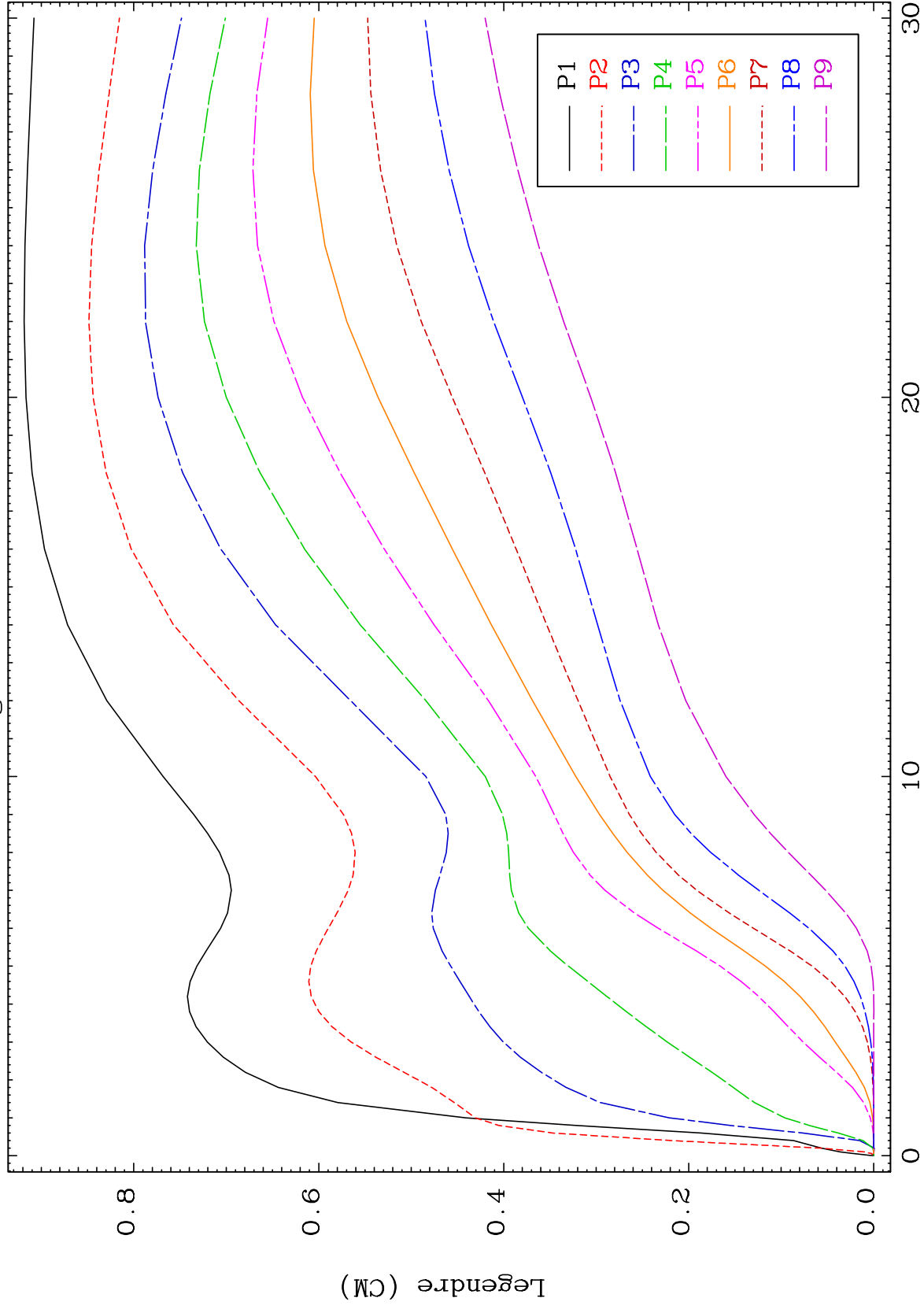




MAT 6713

Elastic Legendre Coefficients

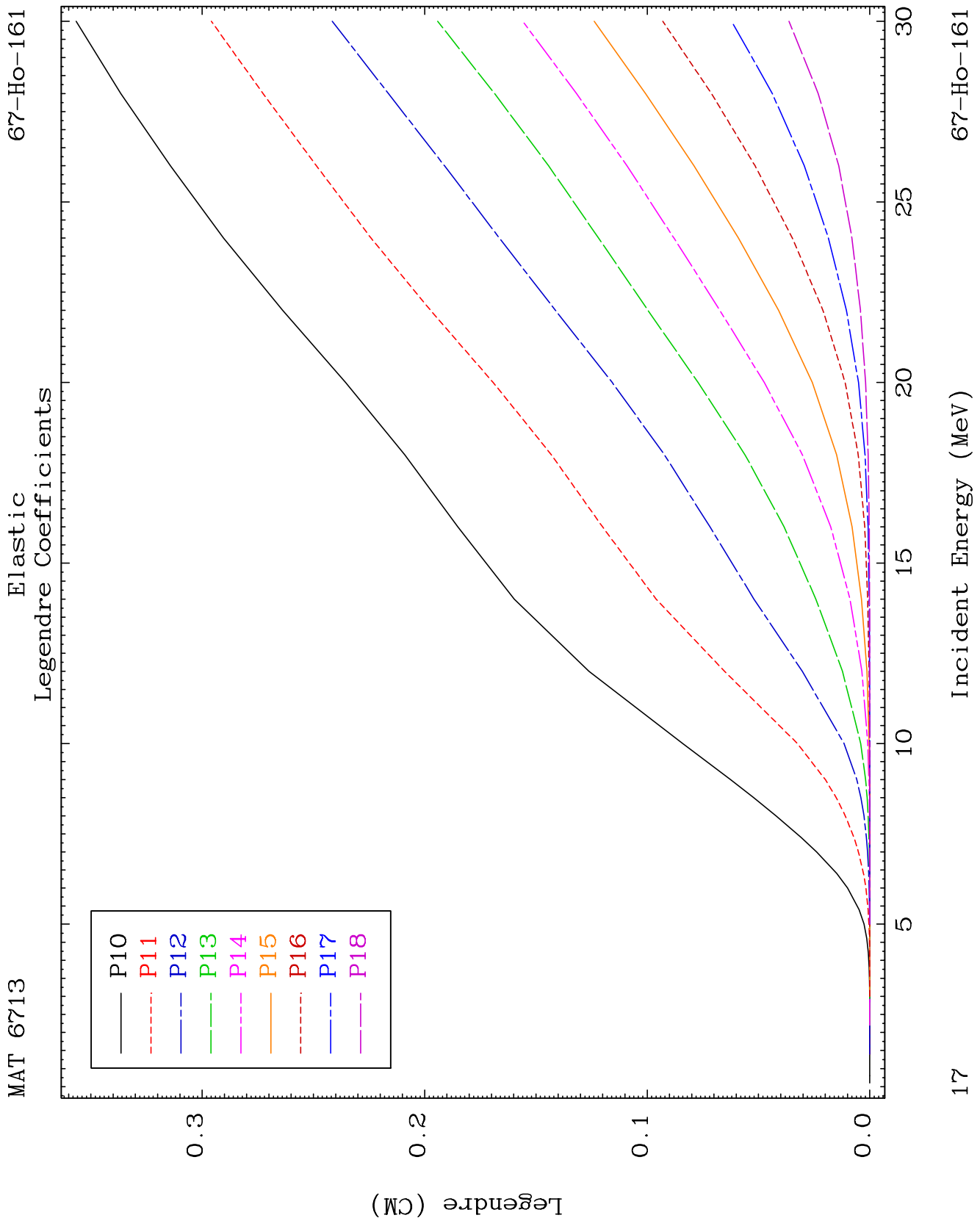
67-Ho-161



16

Incident Energy (MeV)

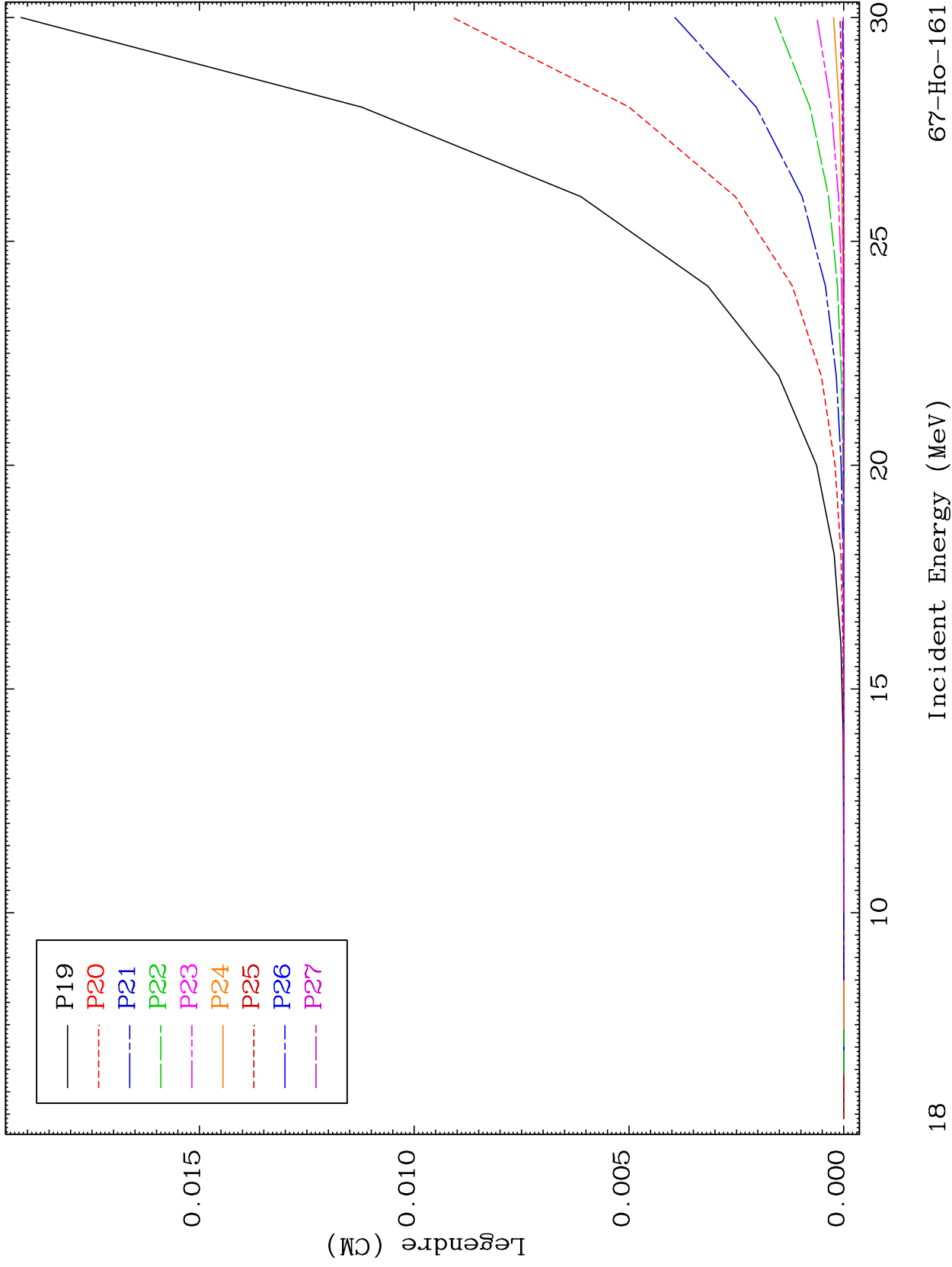
67-Ho-161



MAT 6713

Elastic Legendre Coefficients

67-Ho-161



18

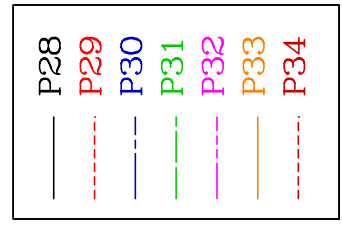
Incident Energy (MeV)

67-Ho-161

MAT 6713

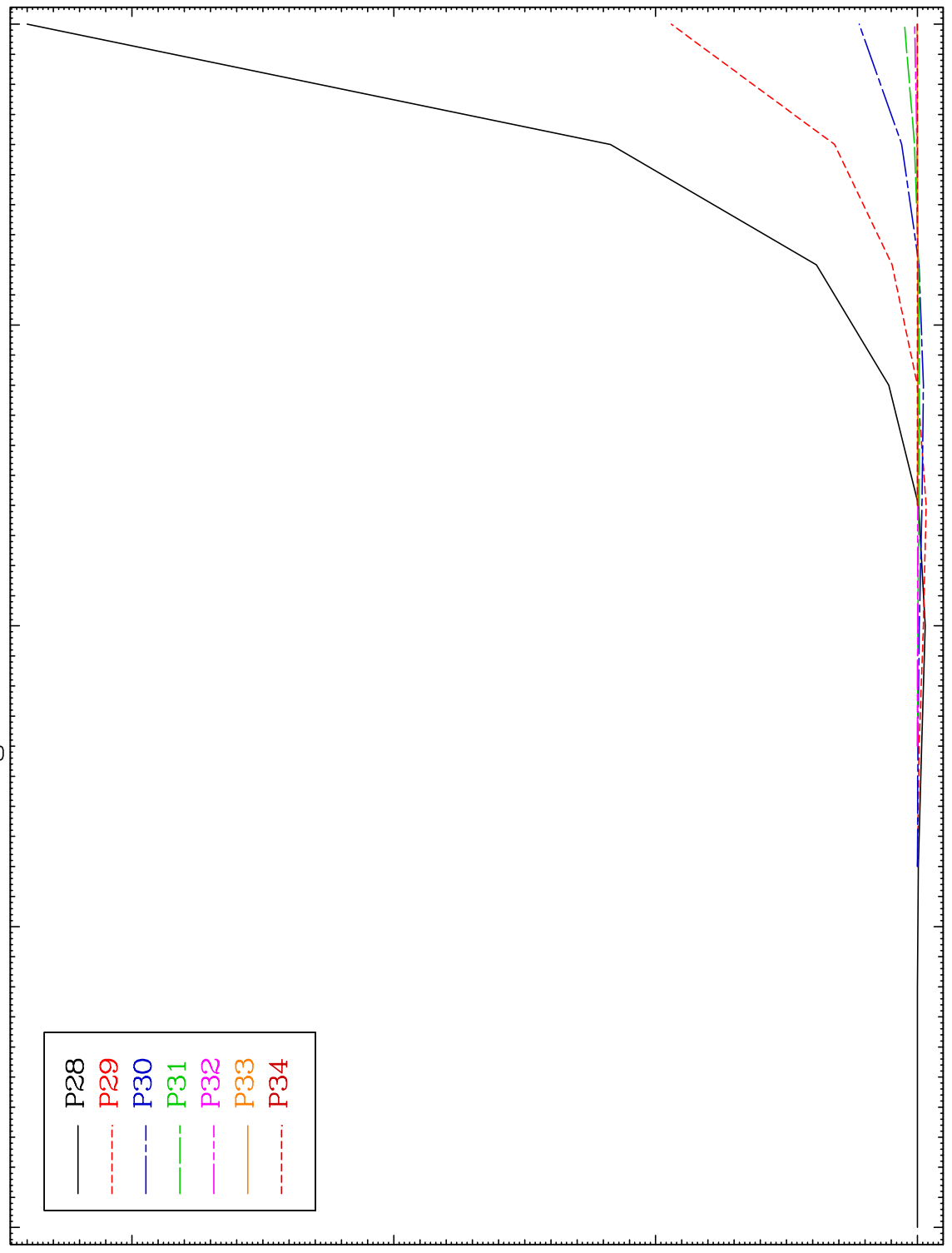
Elastic Legendre Coefficients

67-Ho-161



$\times 10^{-6}$

Legendre (CM)



10

15

20

25

30

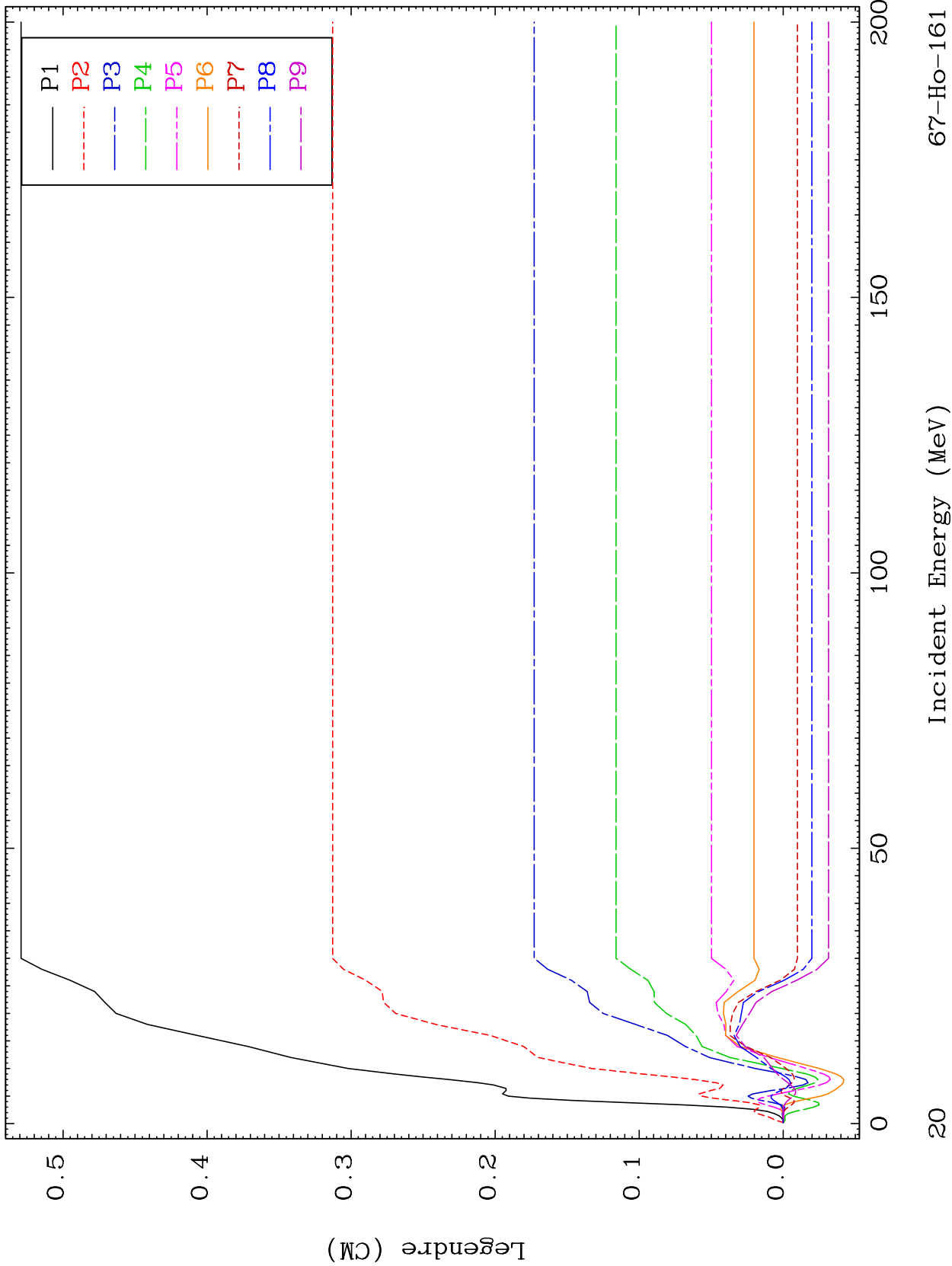
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



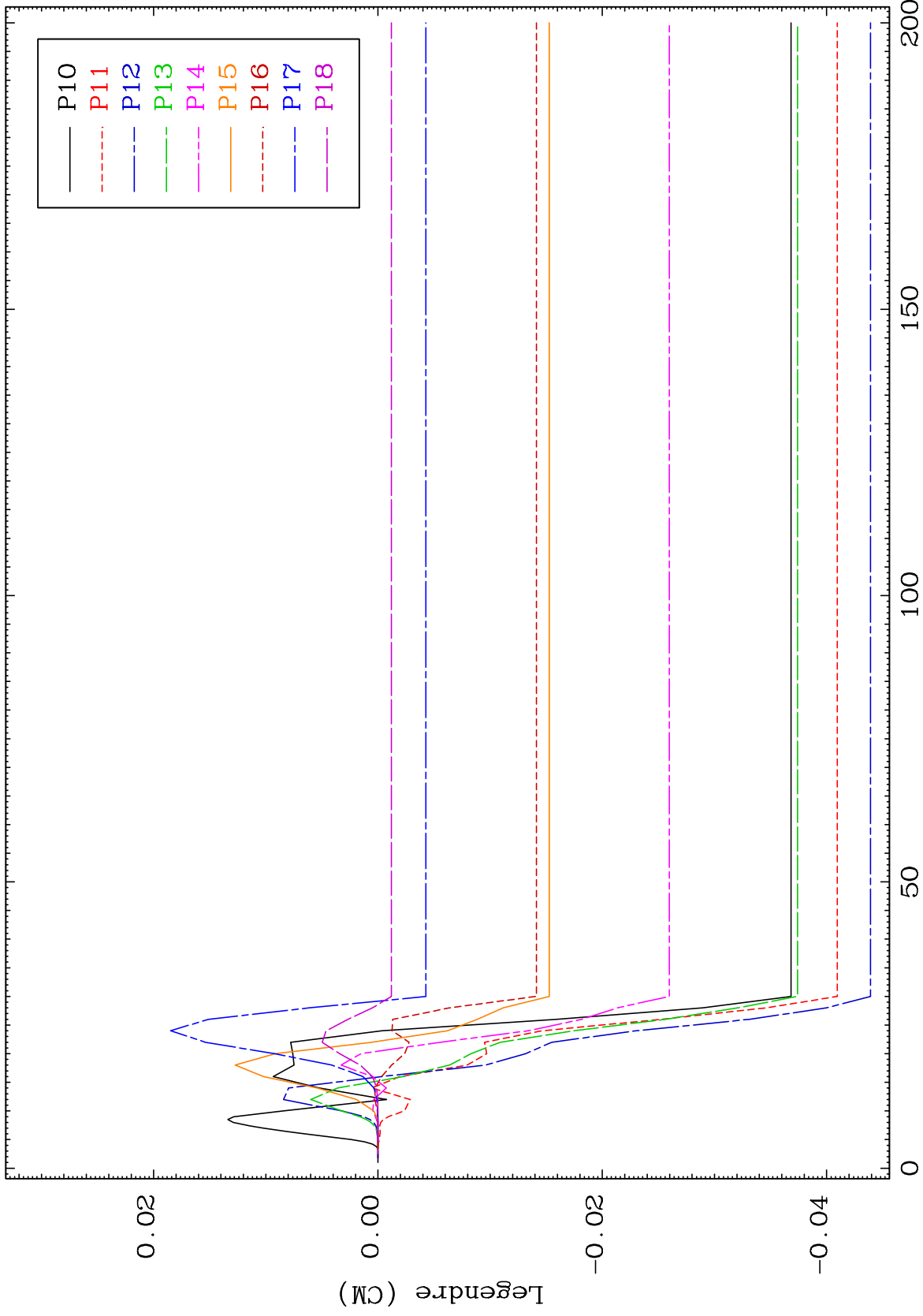
67-Ho-161

Incident Energy (MeV)

MAT 6713

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

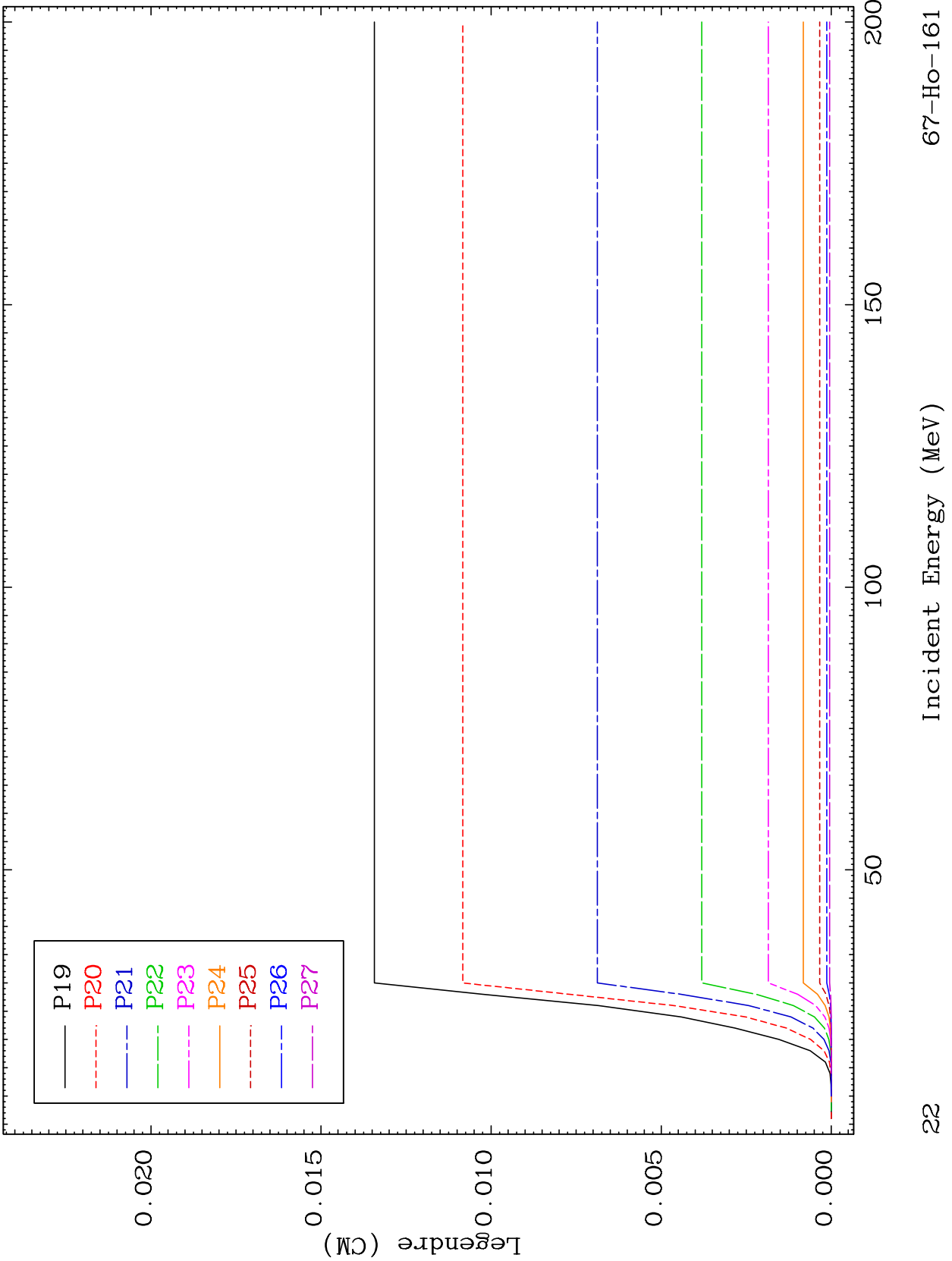
67-Ho-161



21

Incident Energy (MeV)

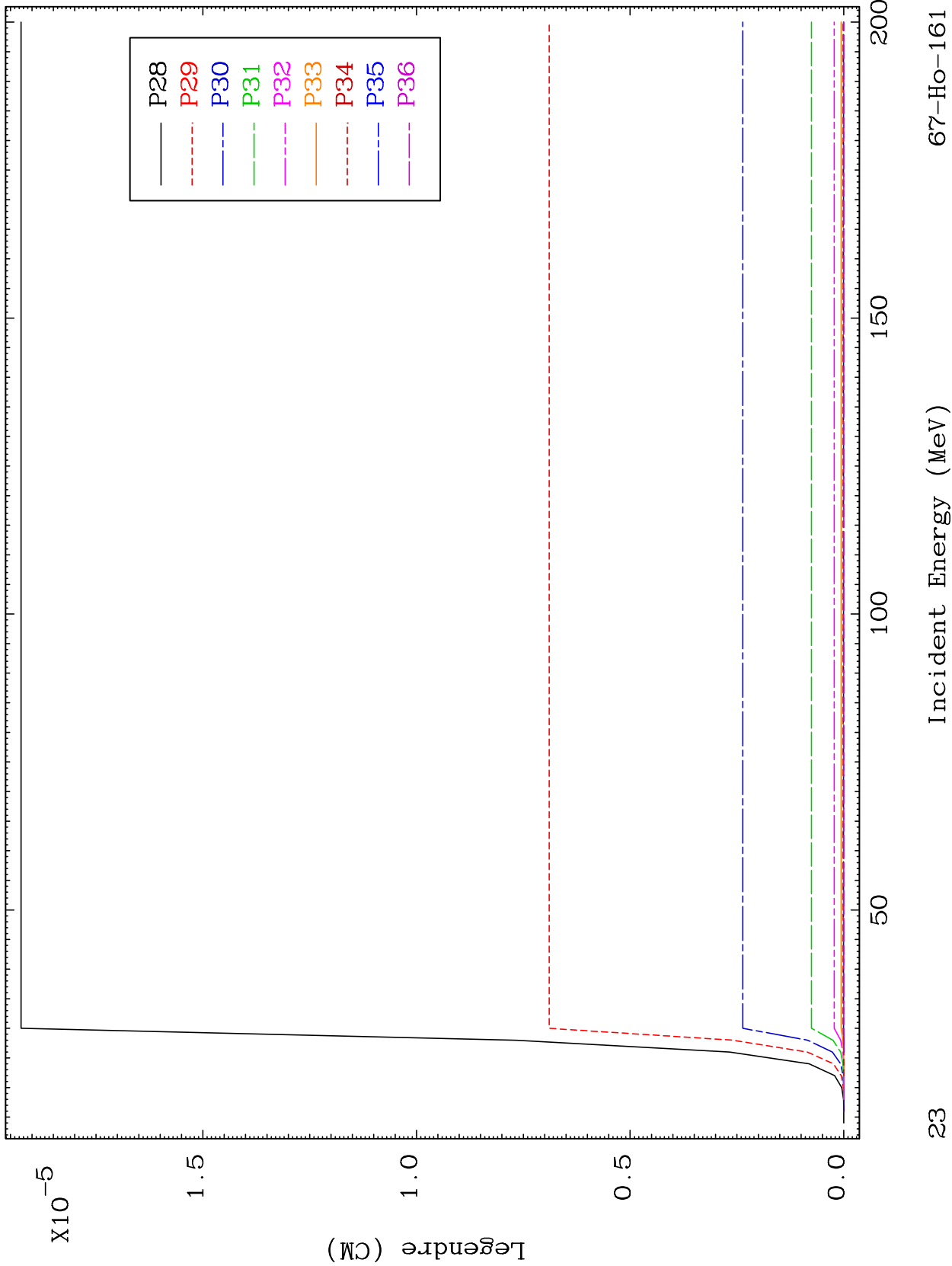
67-Ho-161



MAT 6713

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

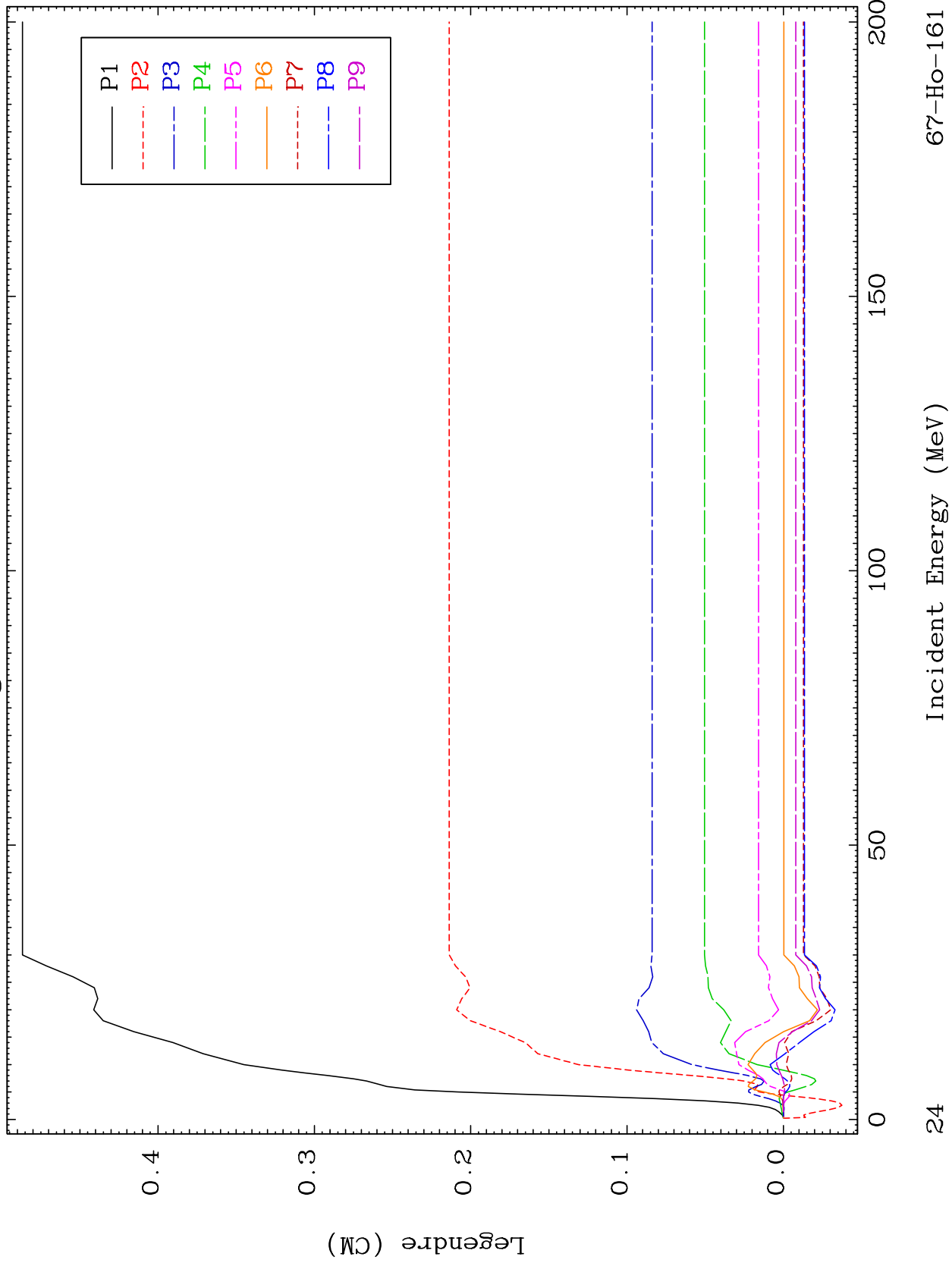
67-Ho-161



MAT 6713

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

67-Ho-161



67-Ho-161

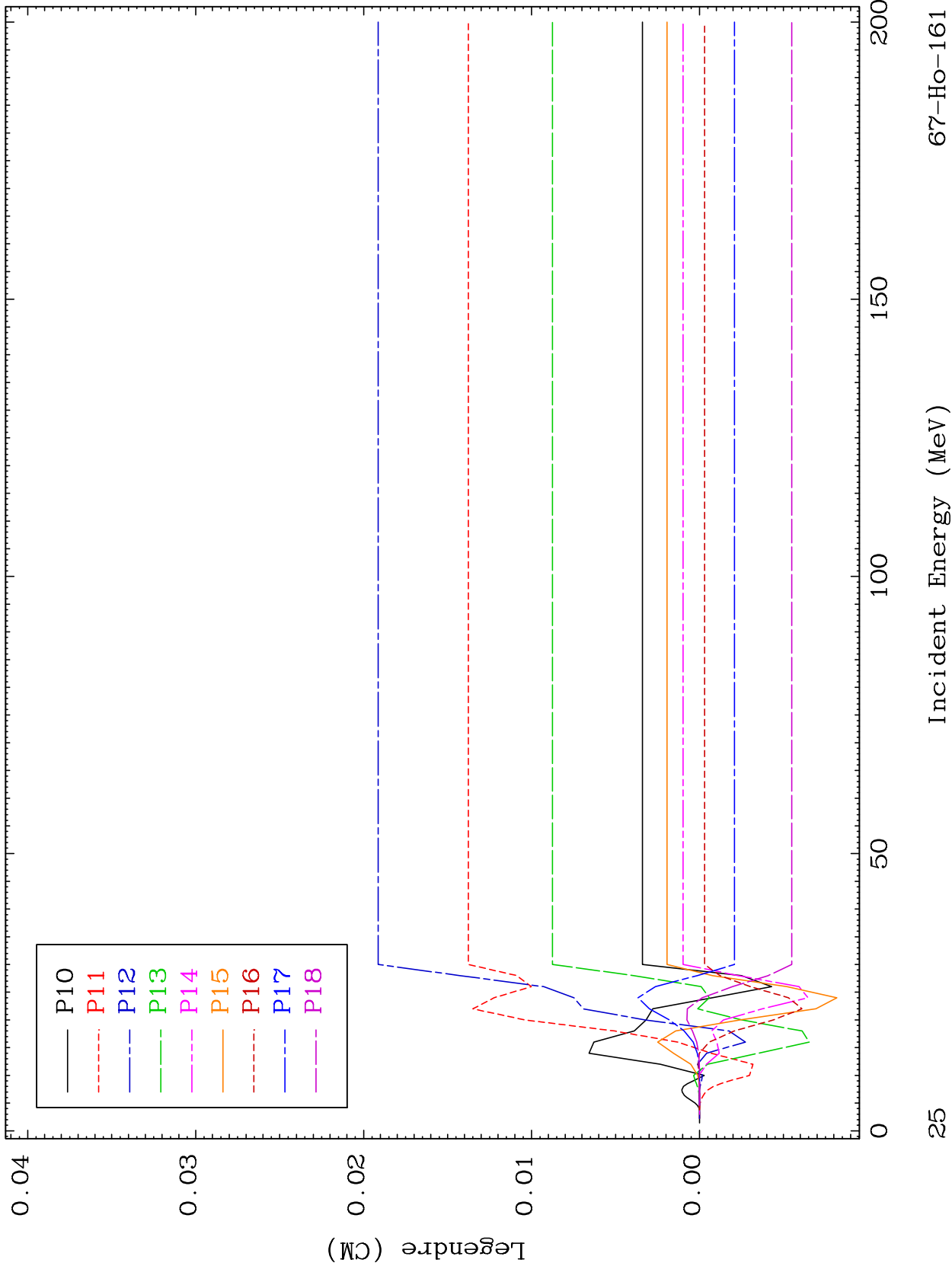
Incident Energy (MeV)

24

MAT 6713

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

67-Ho-161



67-Ho-161

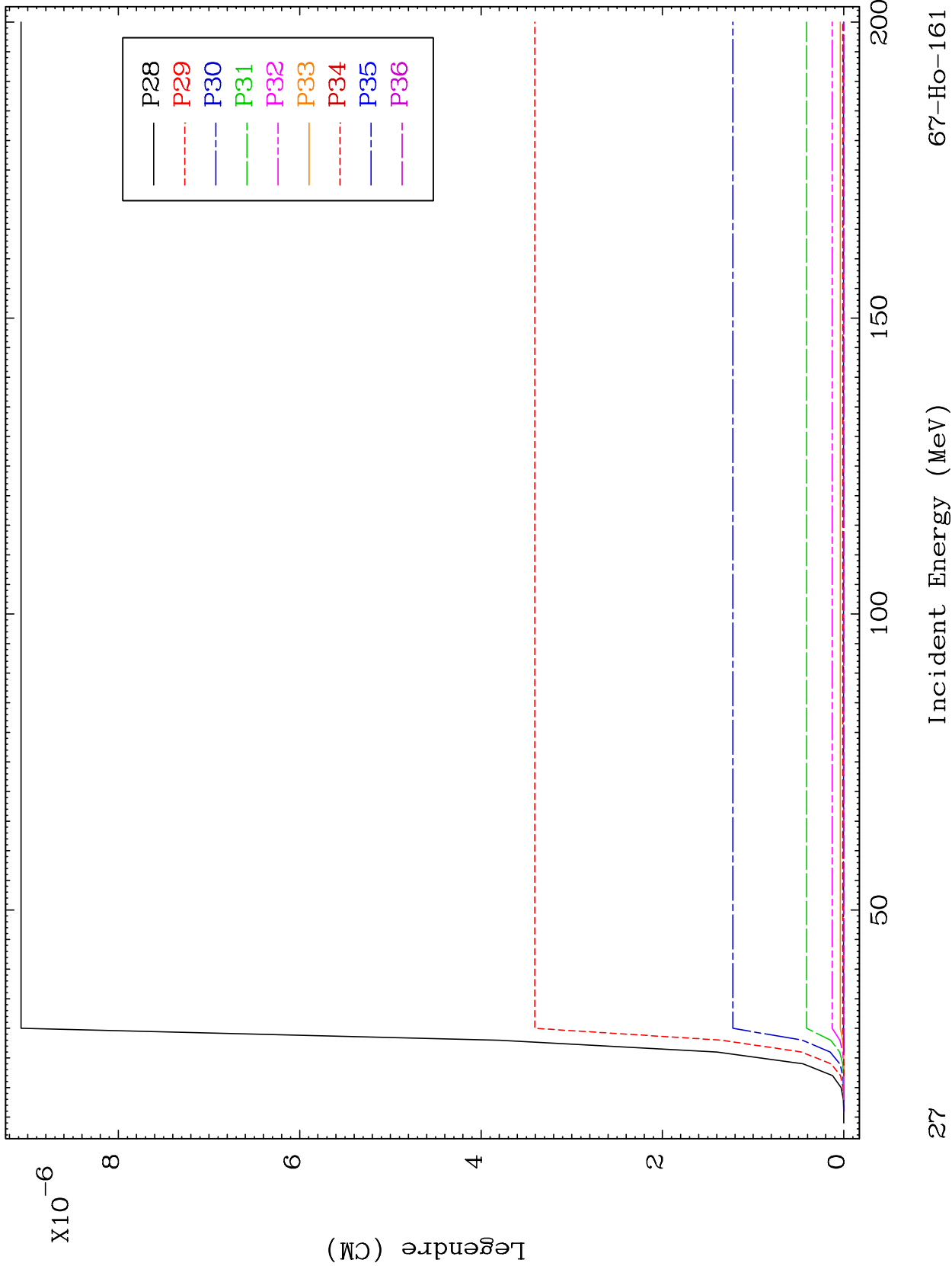
Incident Energy (MeV)

25

MAT 6713

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

67-Ho-161



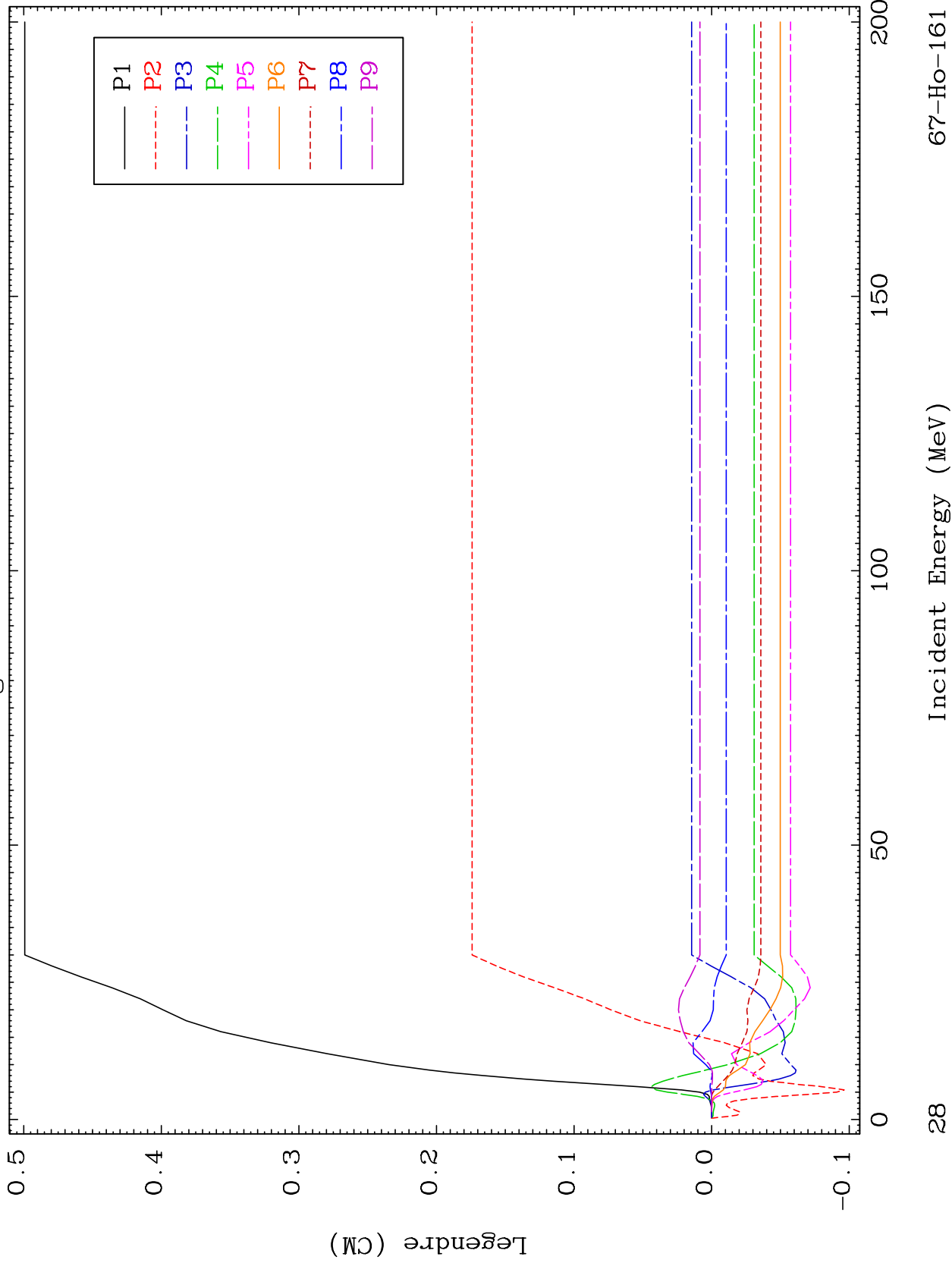
27

67-Ho-161

MAT 6713

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

67-Ho-161



67-Ho-161

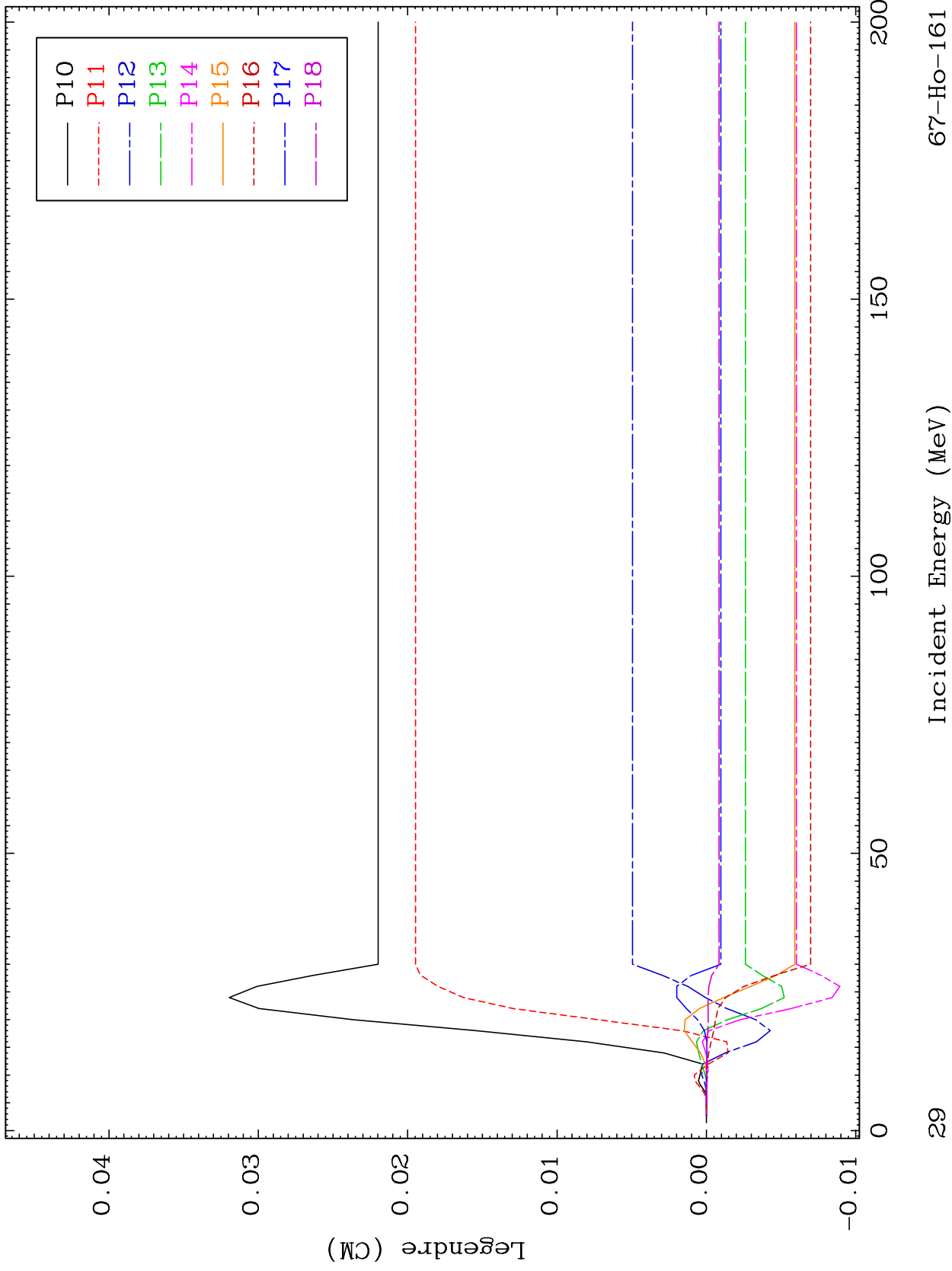
Incident Energy (MeV)

28

MAT 6713

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

67-Ho-161



29

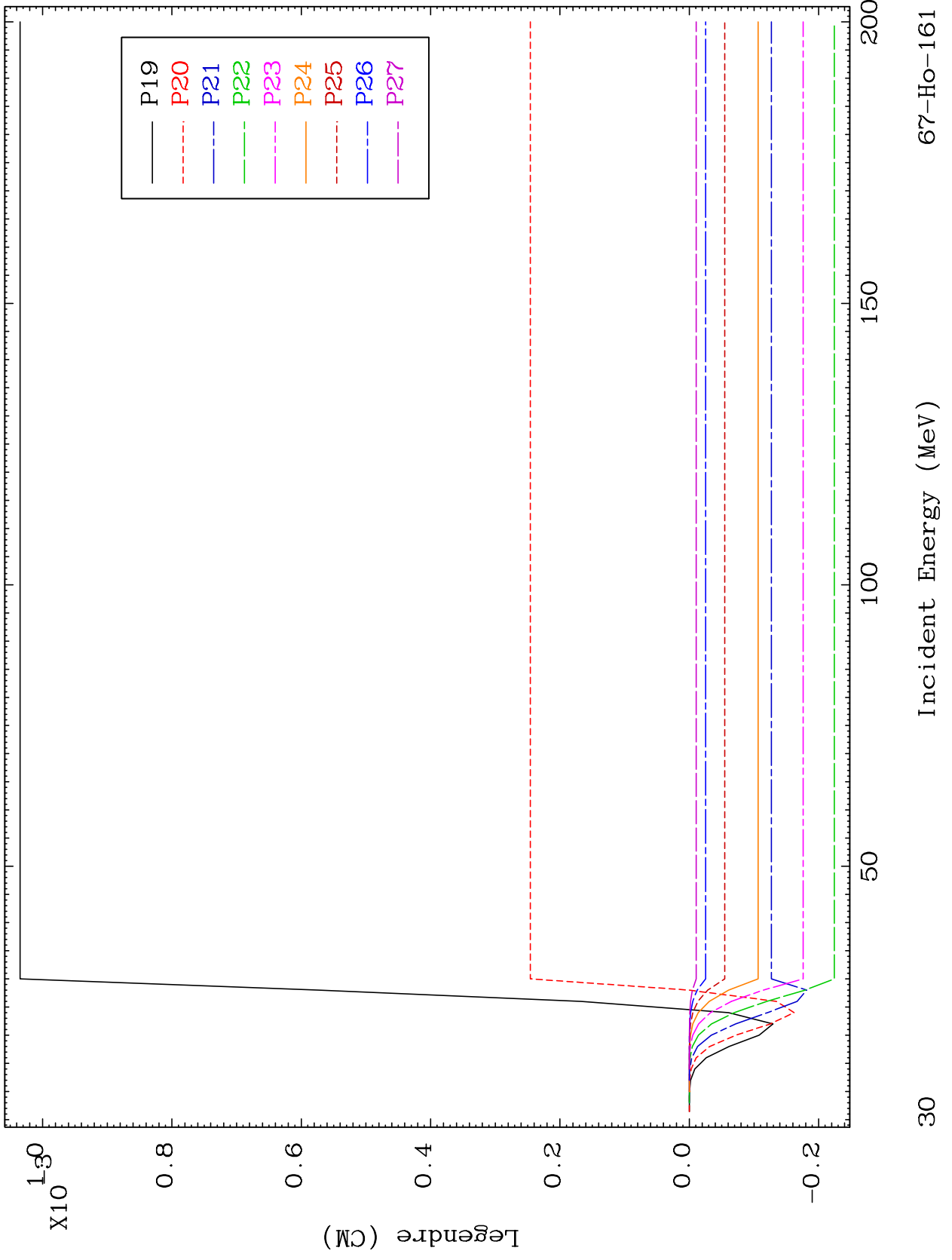
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

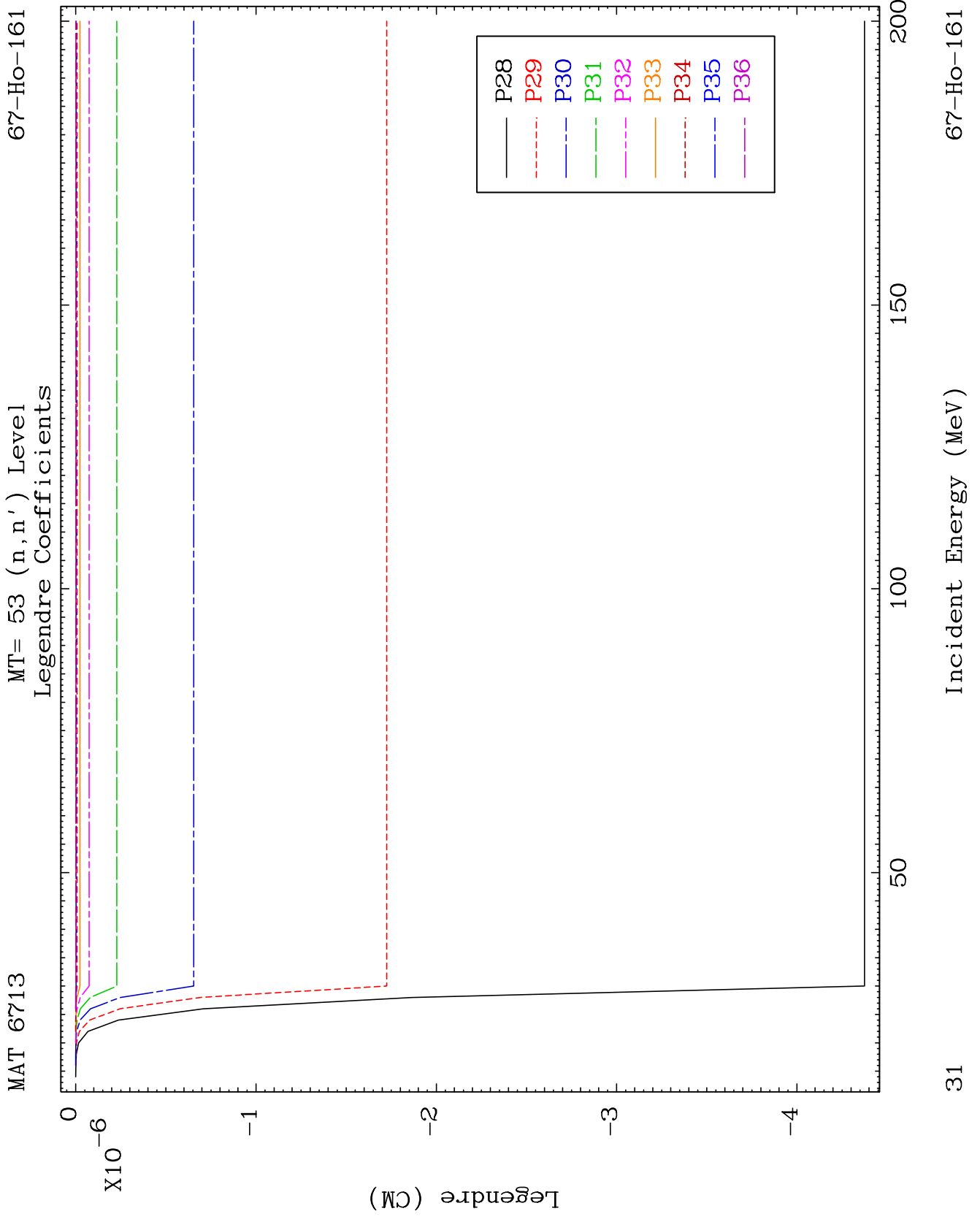
67-Ho-161



30

Incident Energy (MeV)

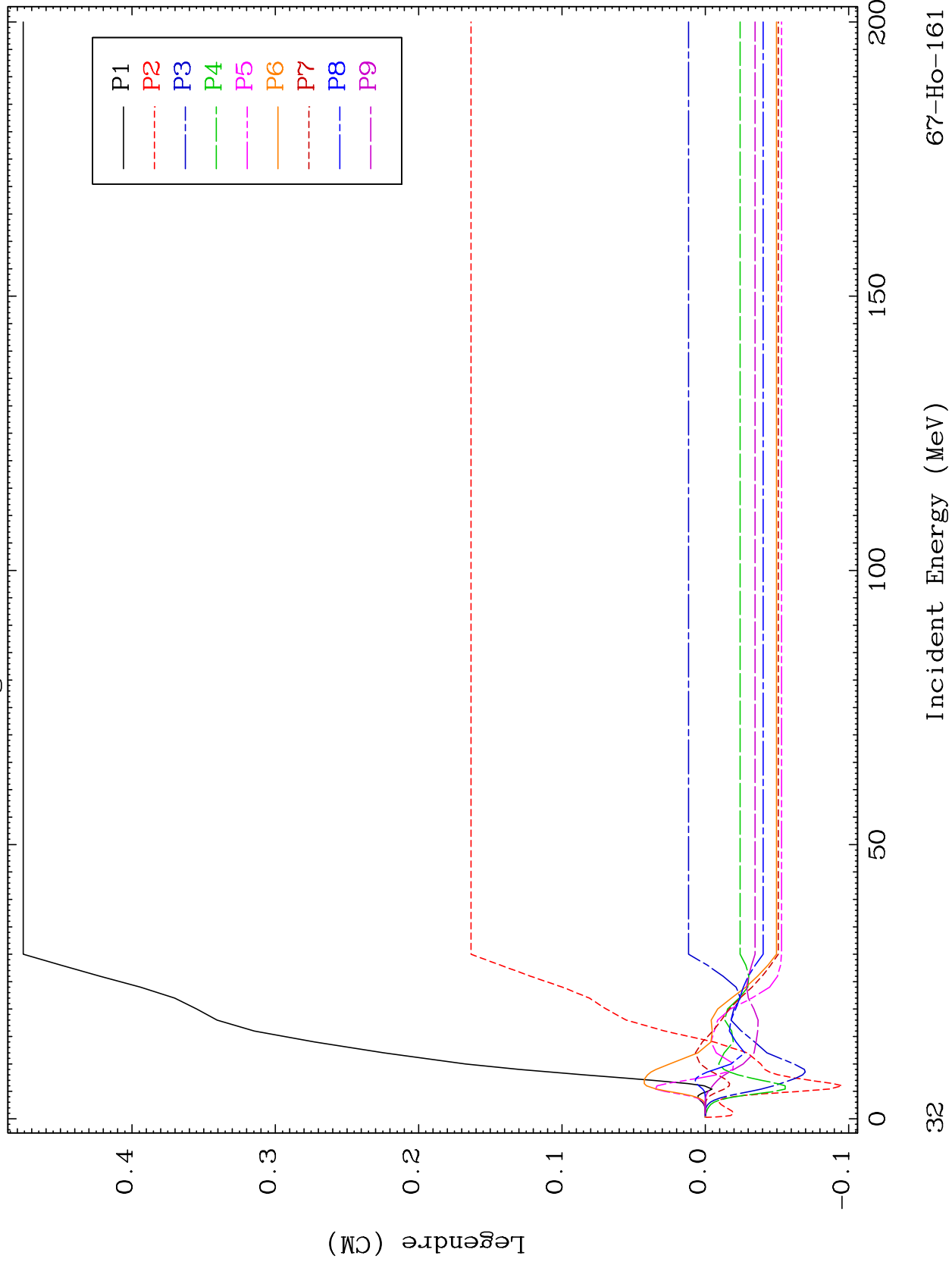
67-Ho-161



MAT 6713

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

67-Ho-161



67-Ho-161

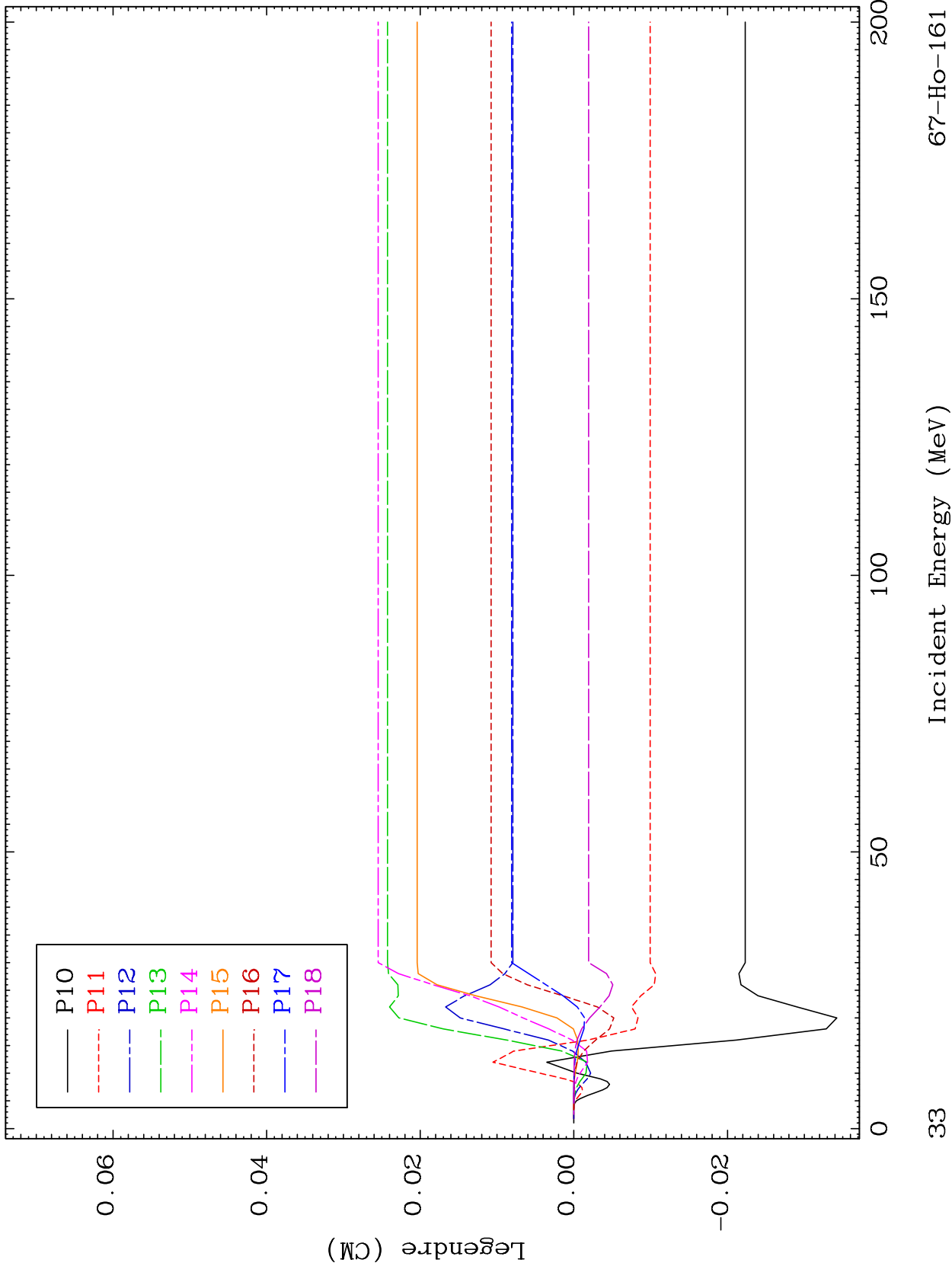
Incident Energy (MeV)

32

MAT 6713

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

67-Ho-161



33

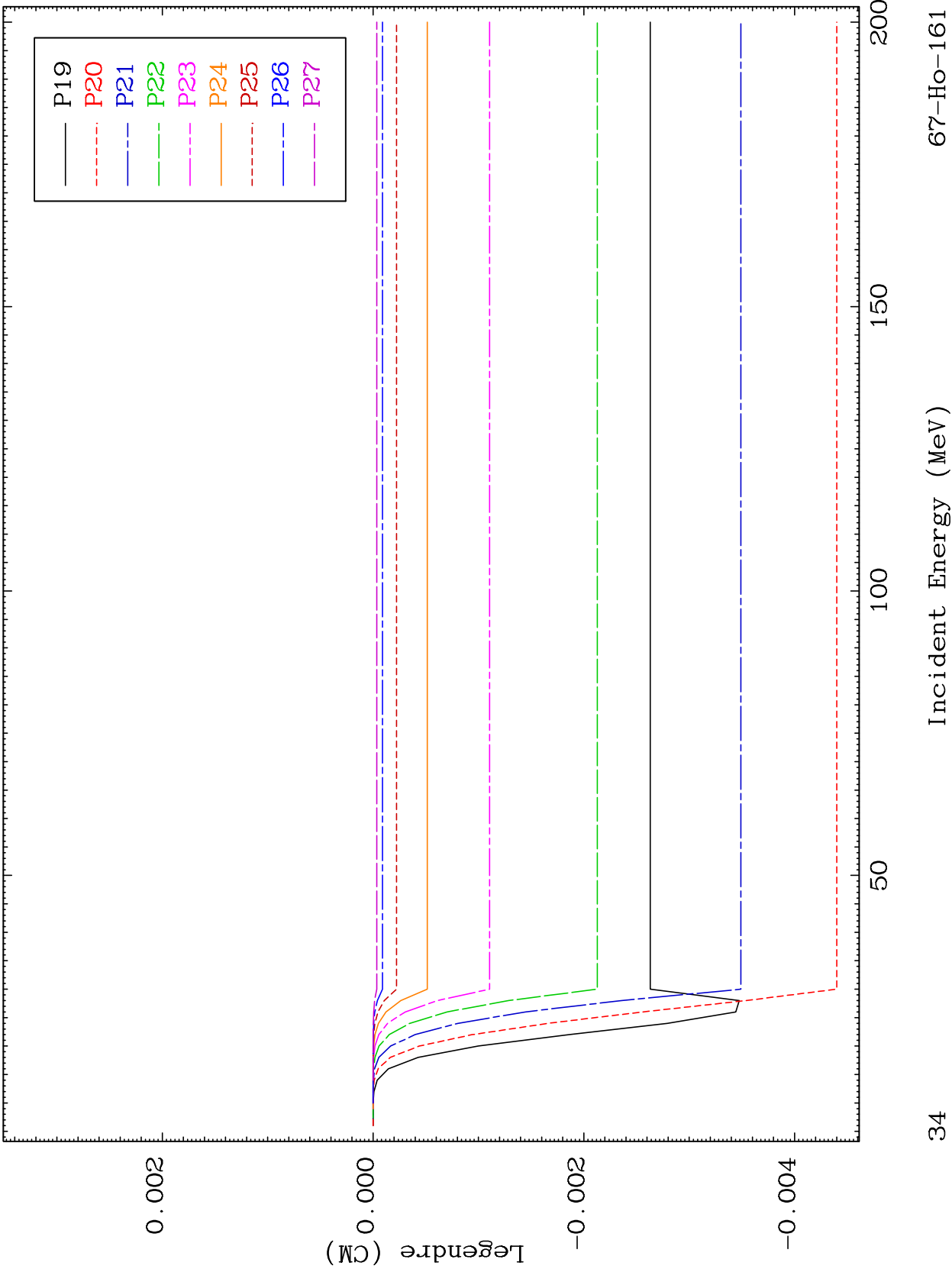
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

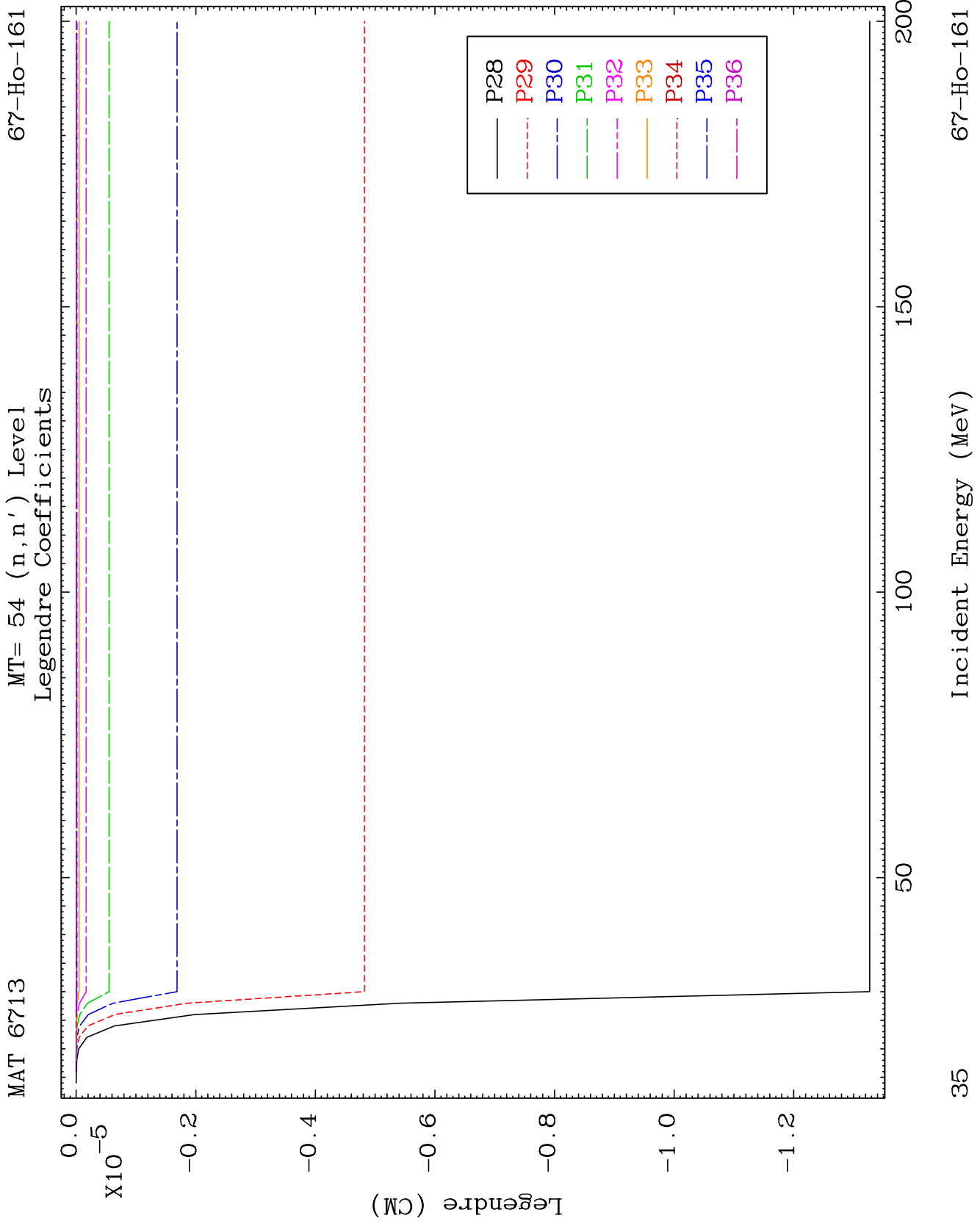
67-Ho-161



34

Incident Energy (MeV)

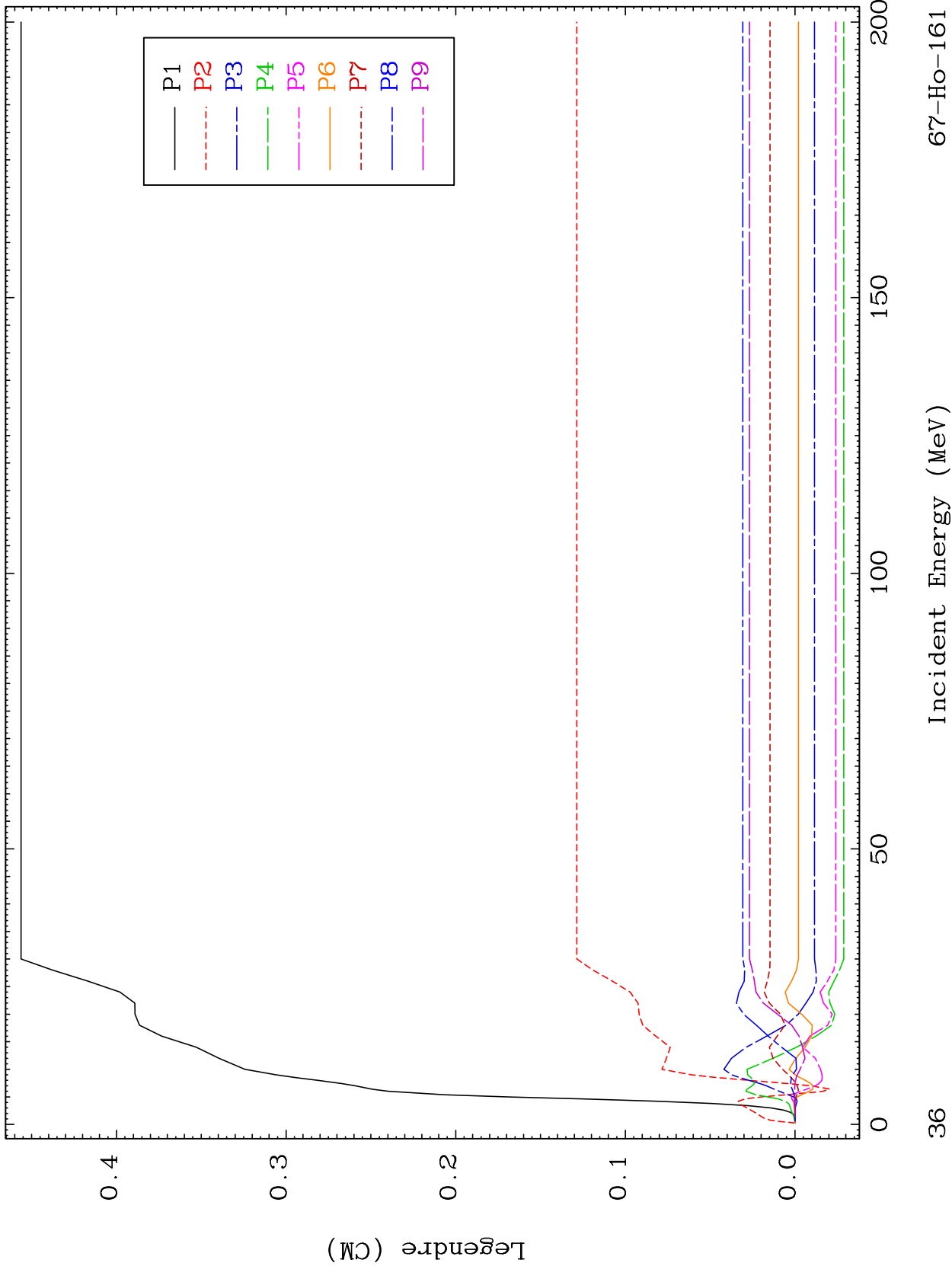
67-Ho-161



MAT 6713

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

67-Ho-161



36

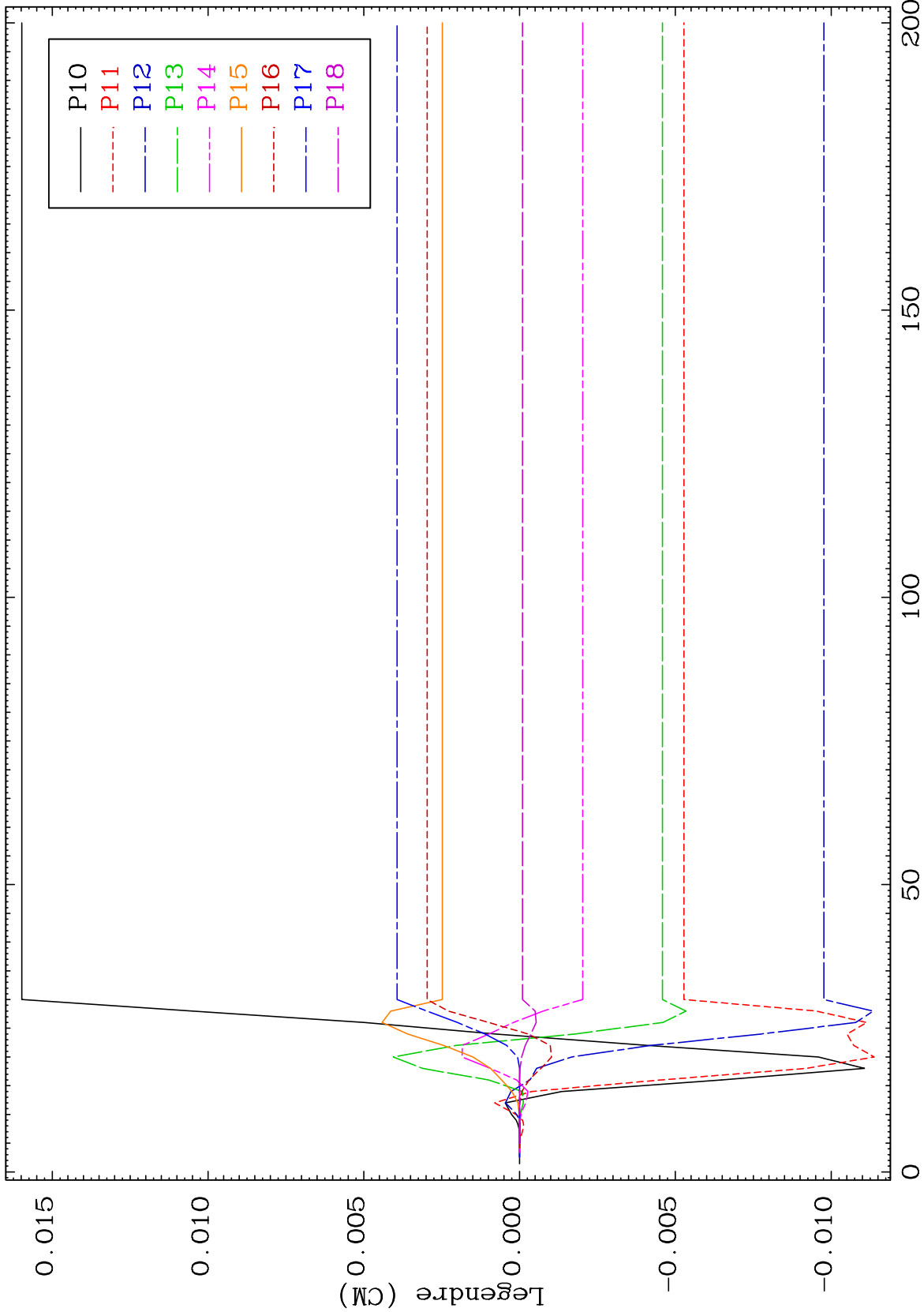
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



37

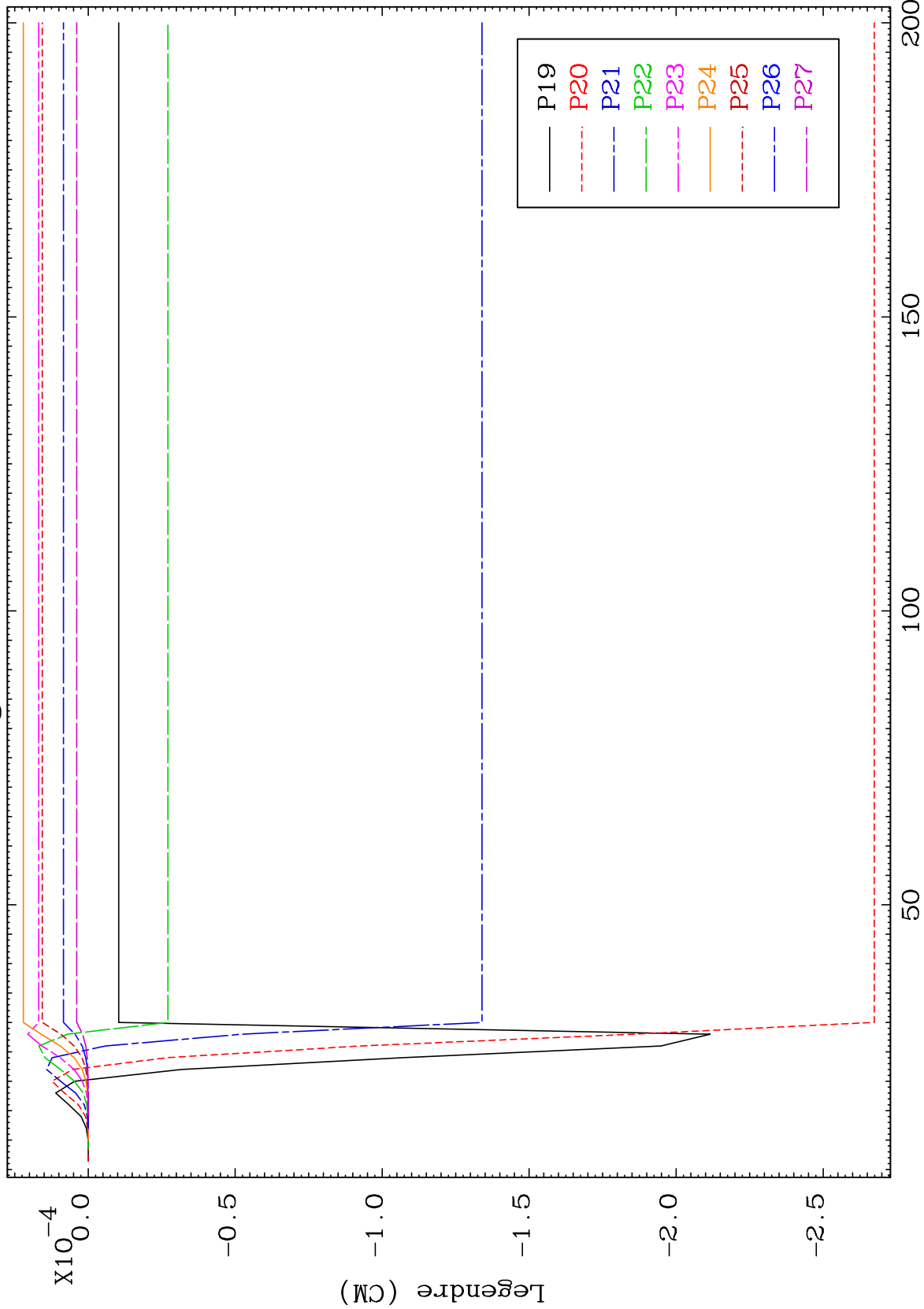
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



38

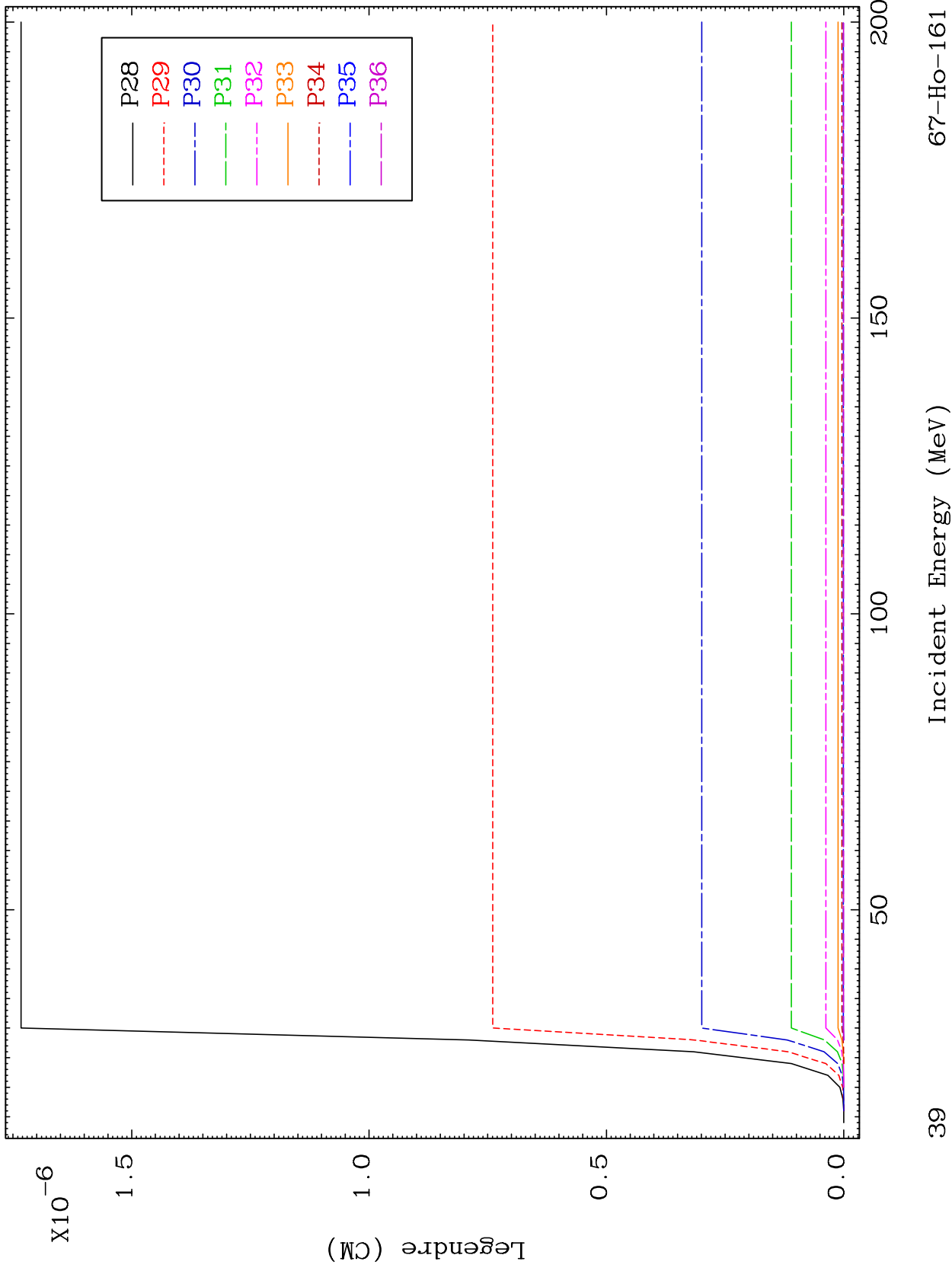
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

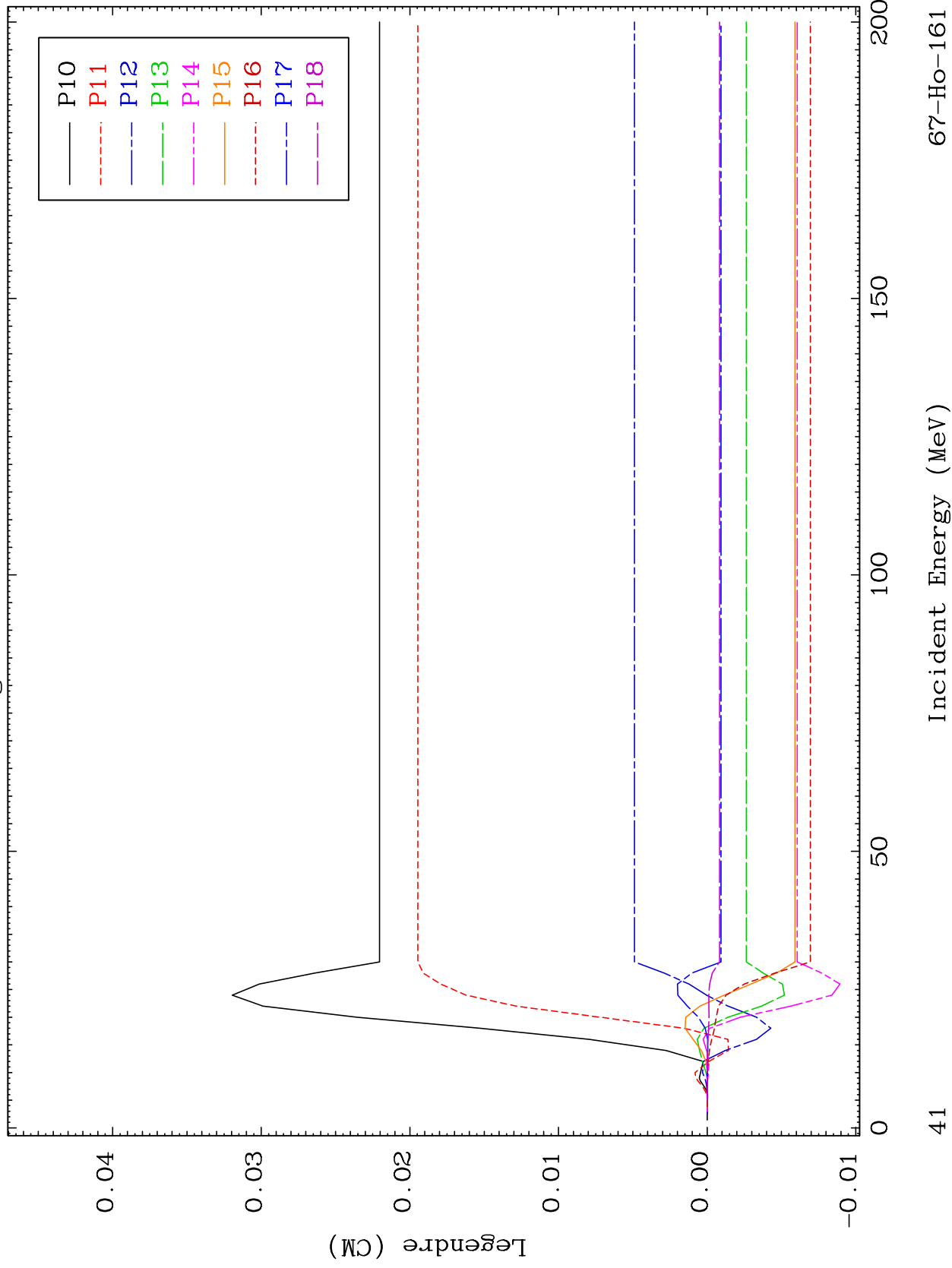
67-Ho-161



MAT 6713

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

67-Ho-161



41

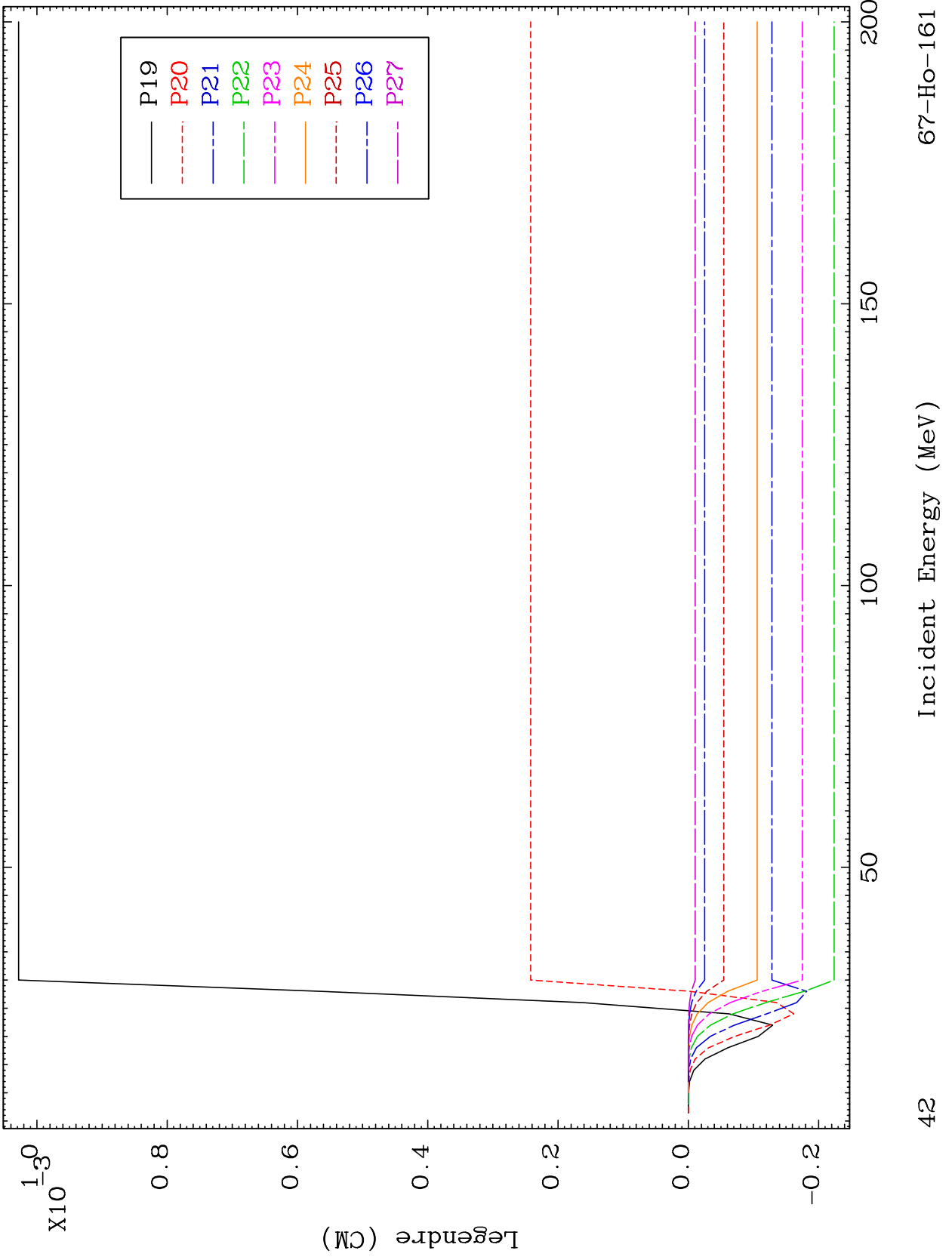
Incident Energy (MeV)

67-Ho-161

MAT 6713

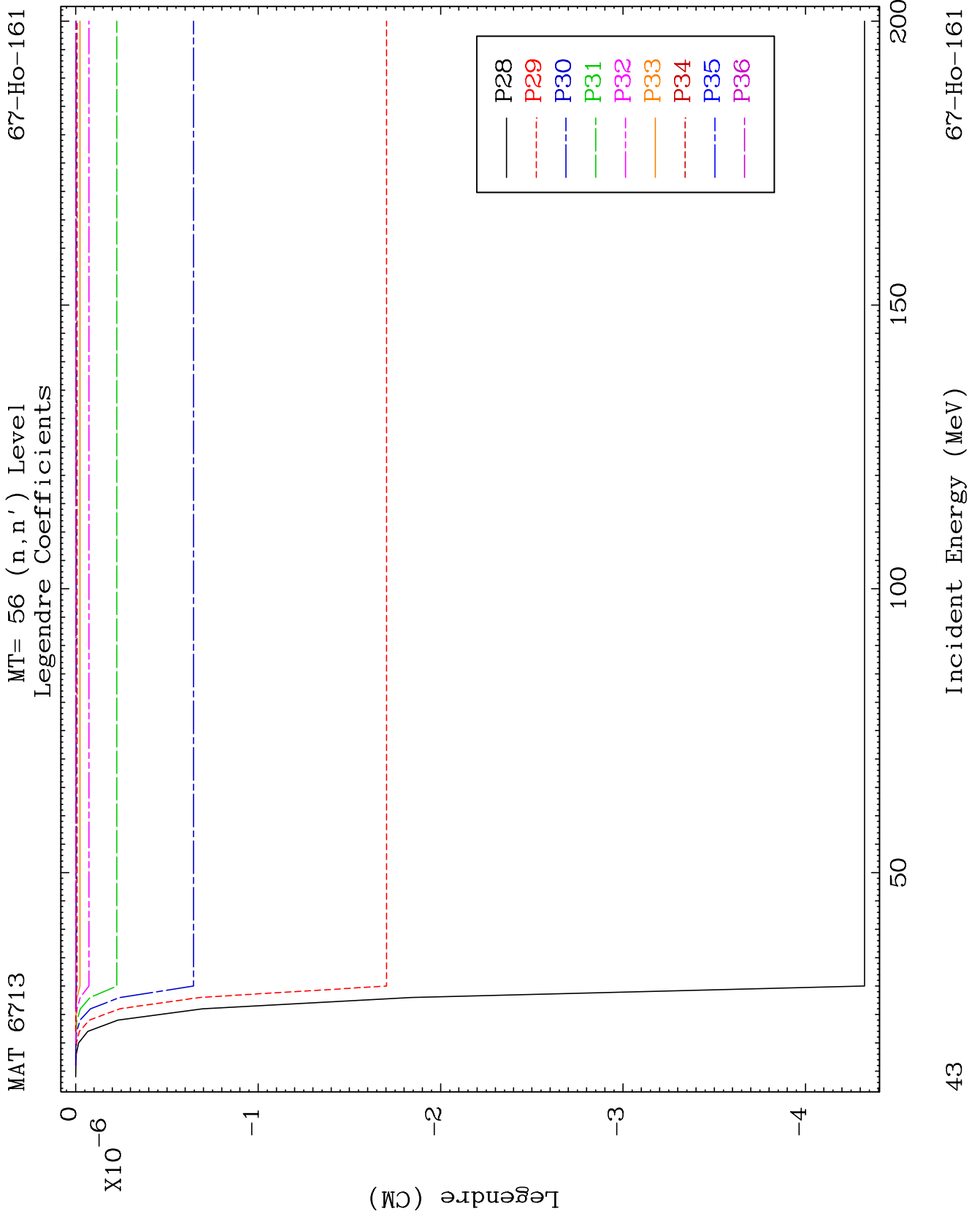
MT= 56 (n,n') Level
Legendre Coefficients

67-Ho-161



42

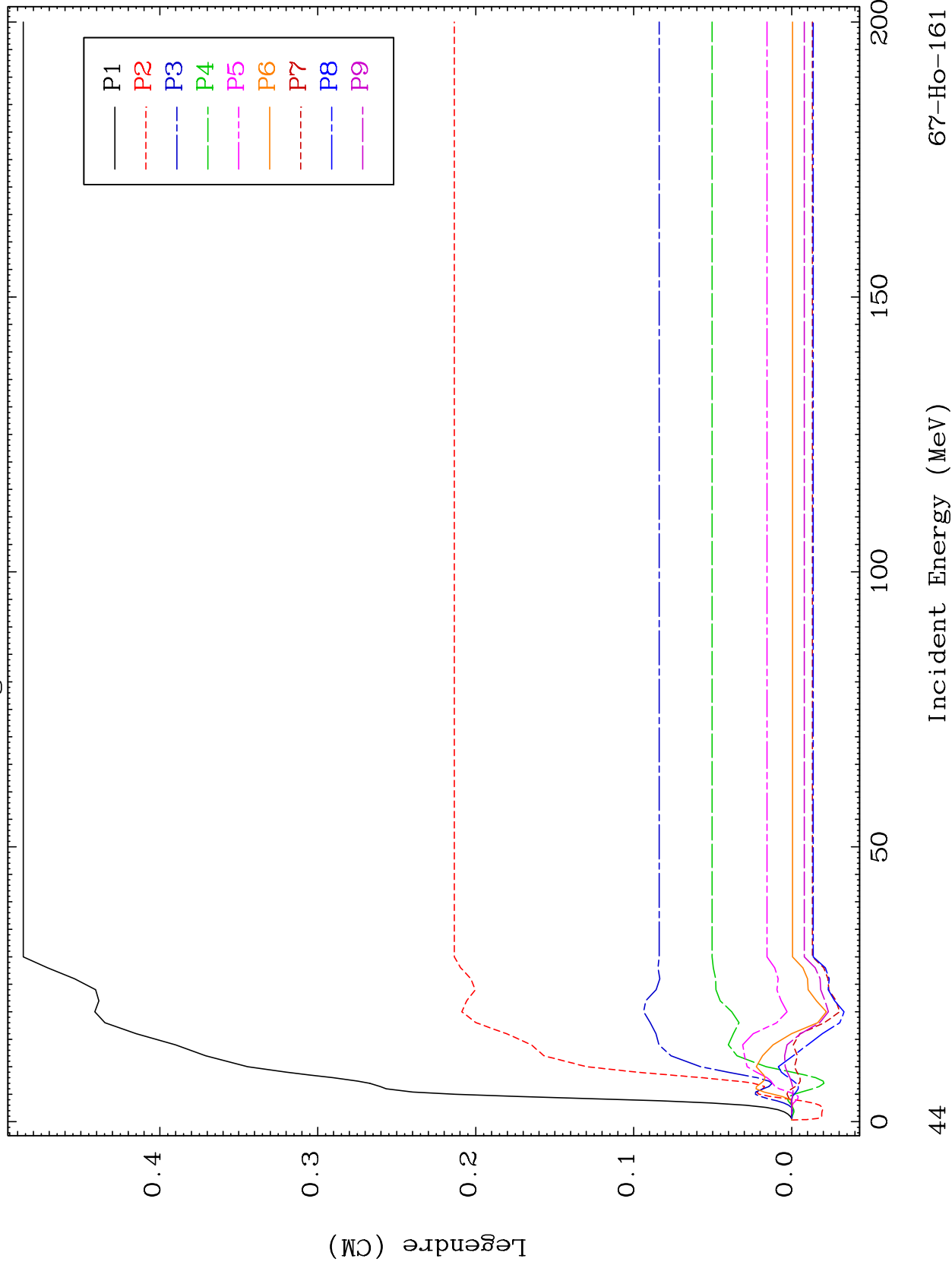
67-Ho-161



MAT 6713

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

67-Ho-161



44

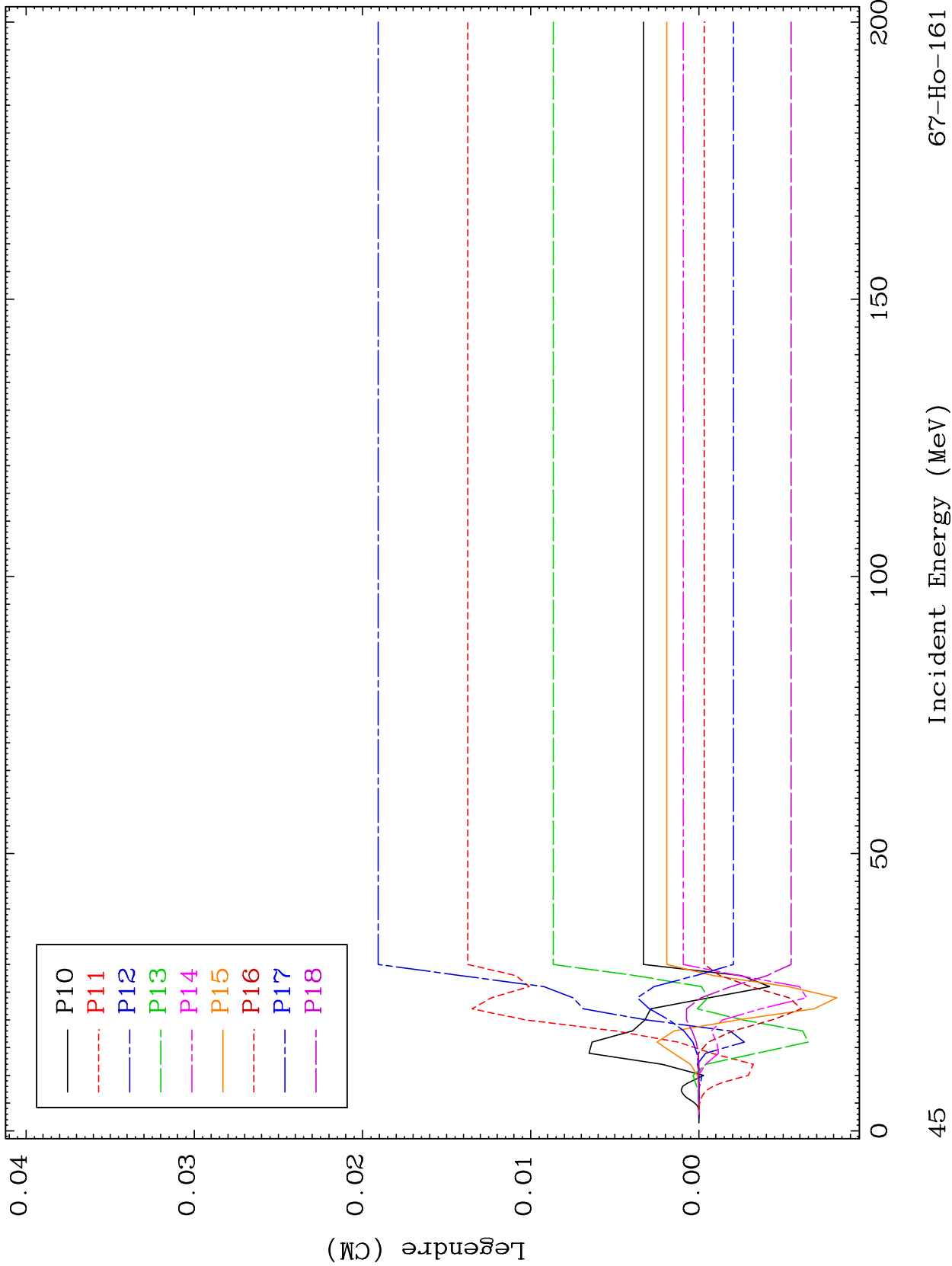
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



67-Ho-161

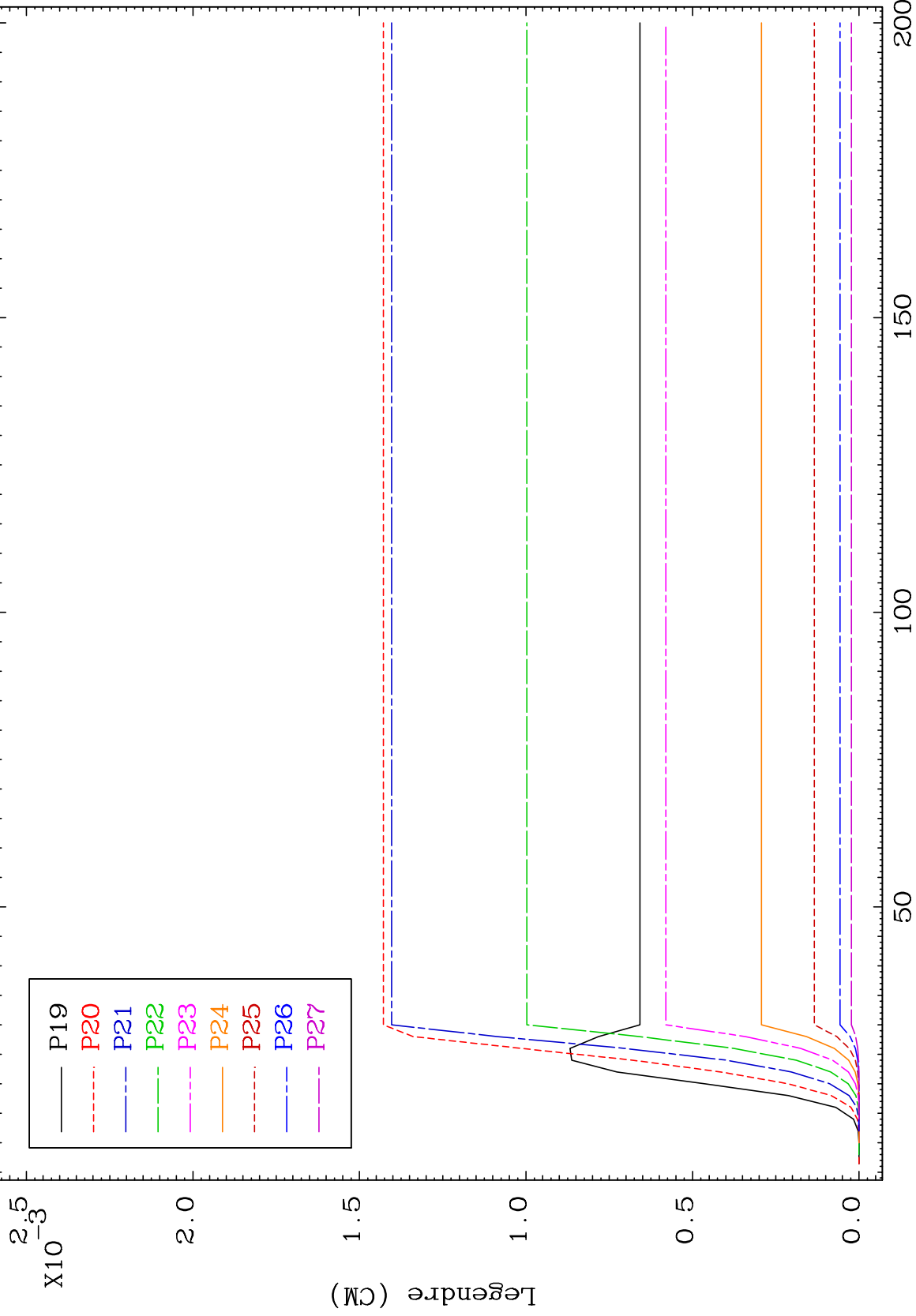
Incident Energy (MeV)

45

MAT 6713

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

67-Ho-161



46

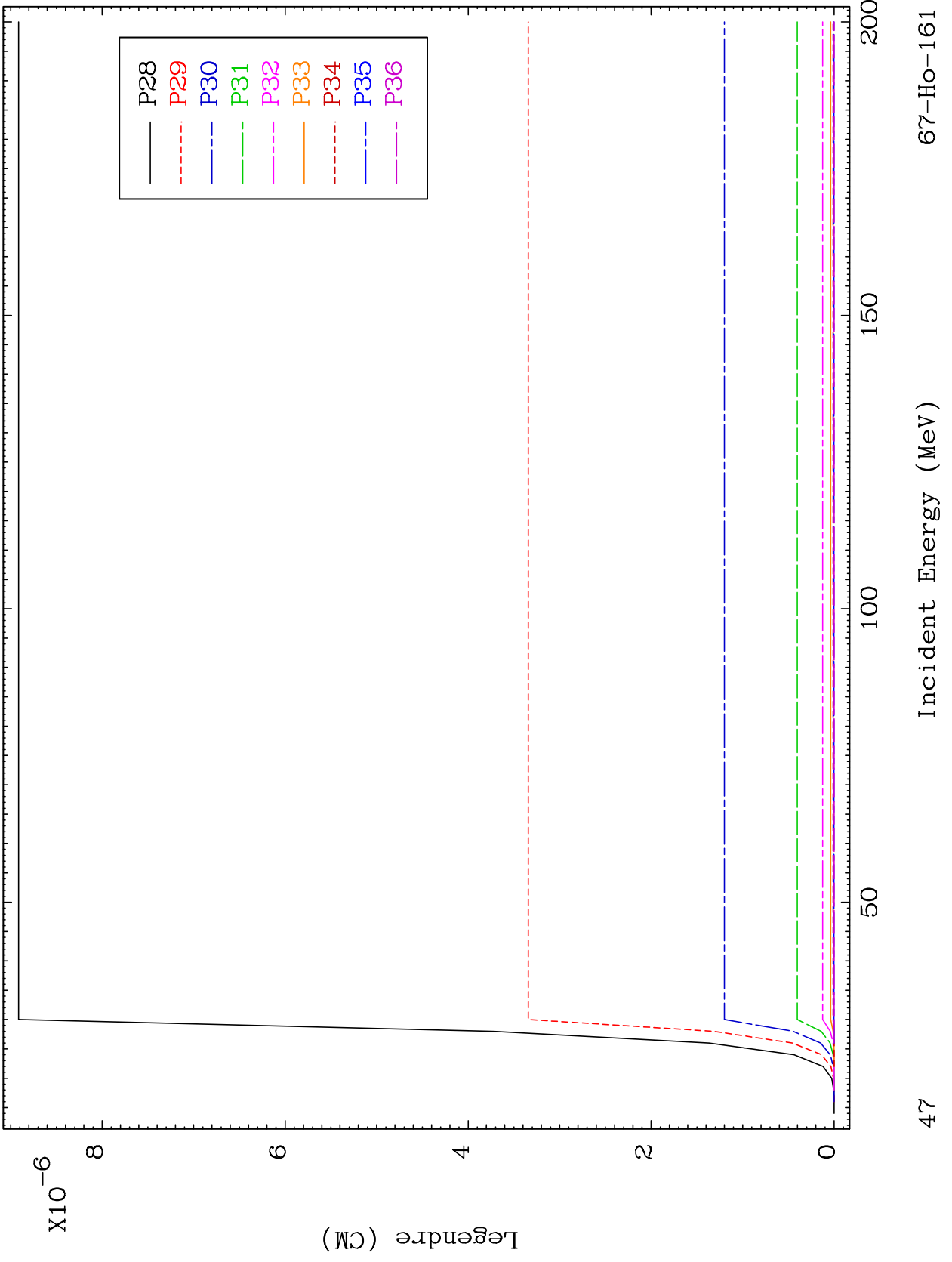
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

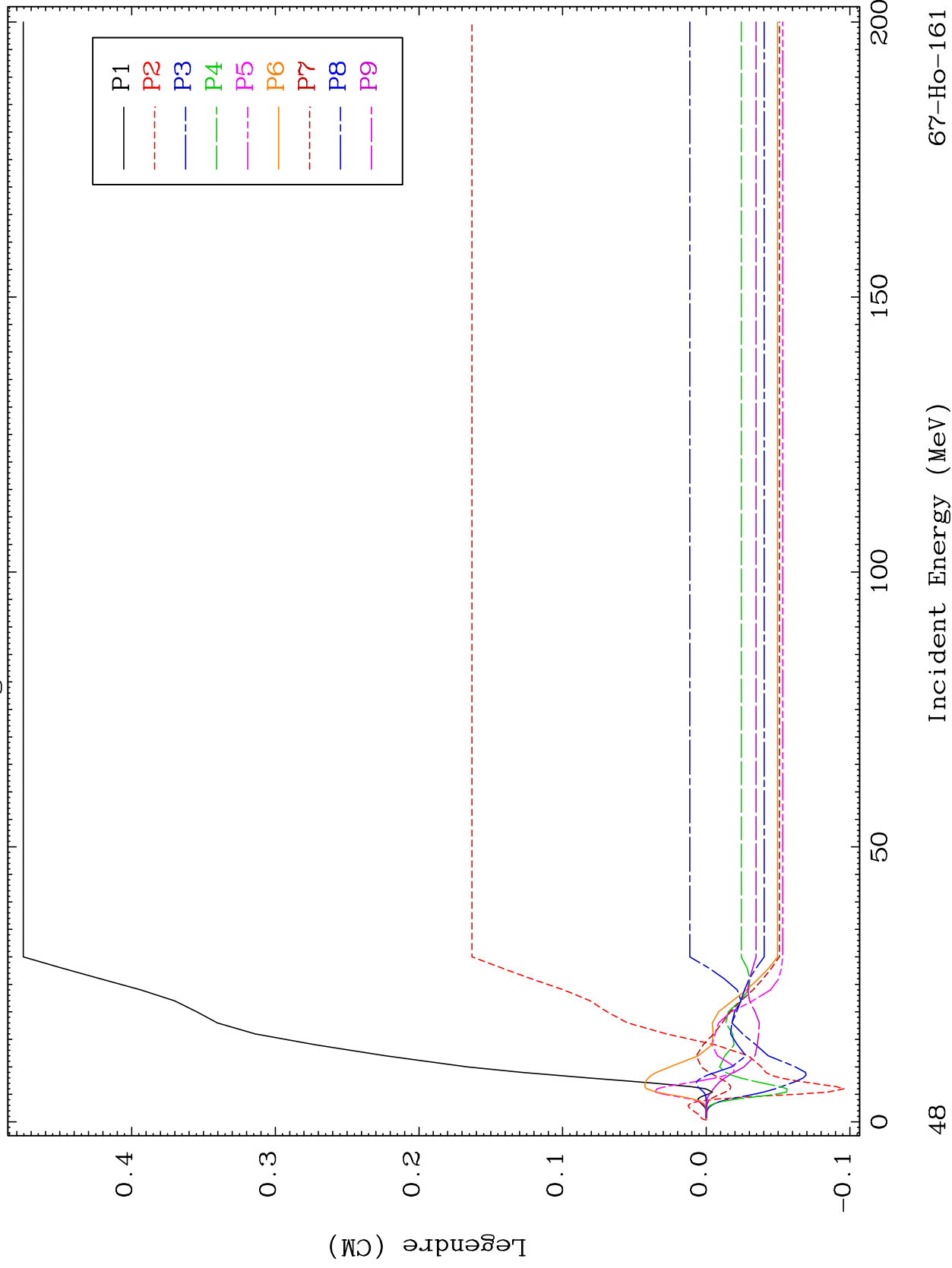
67-Ho-161



MAT 6713

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

67-Ho-161



67-Ho-161

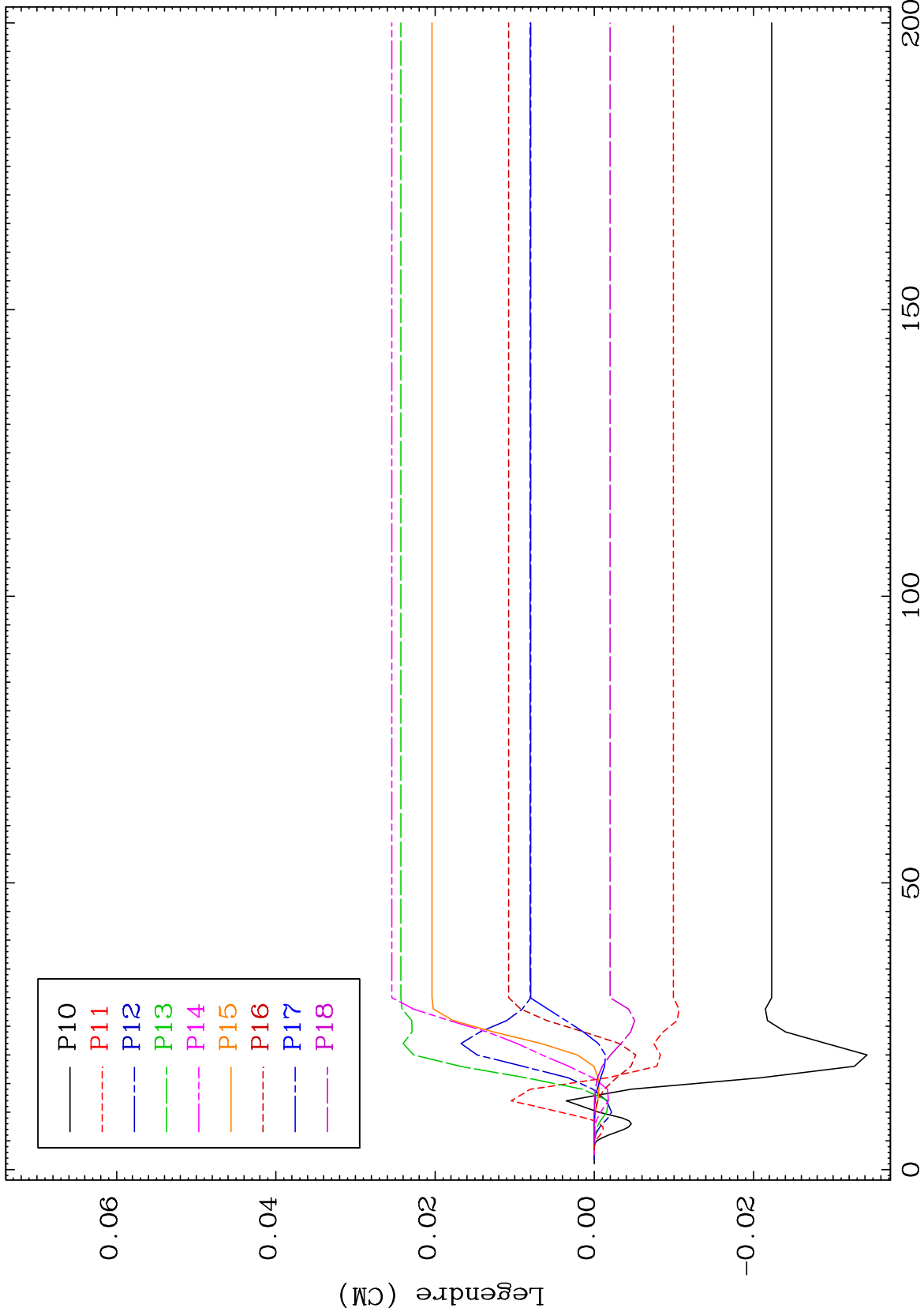
Incident Energy (MeV)

48

MAT 6713

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

67-Ho-161



49

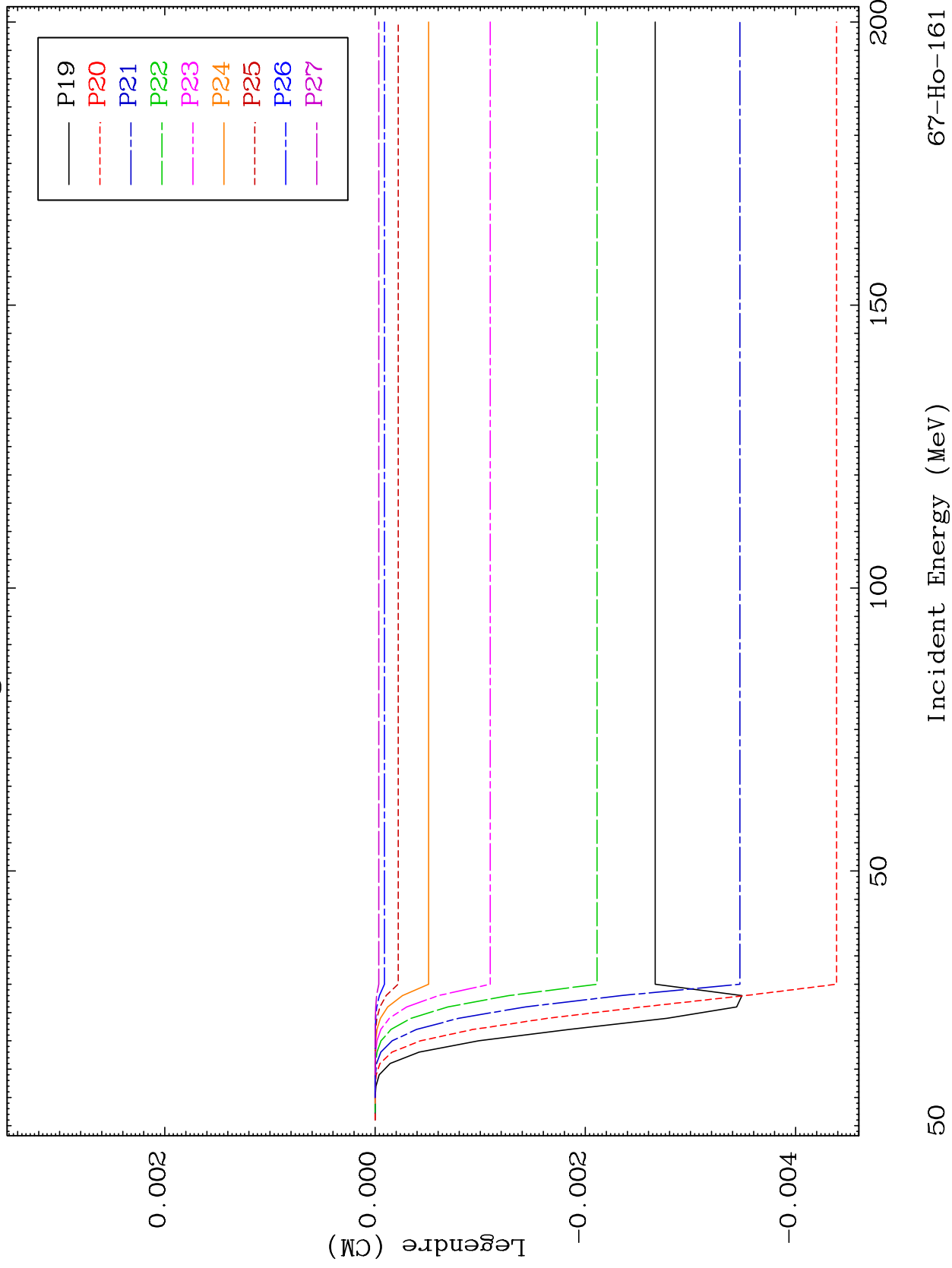
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



67-Ho-161

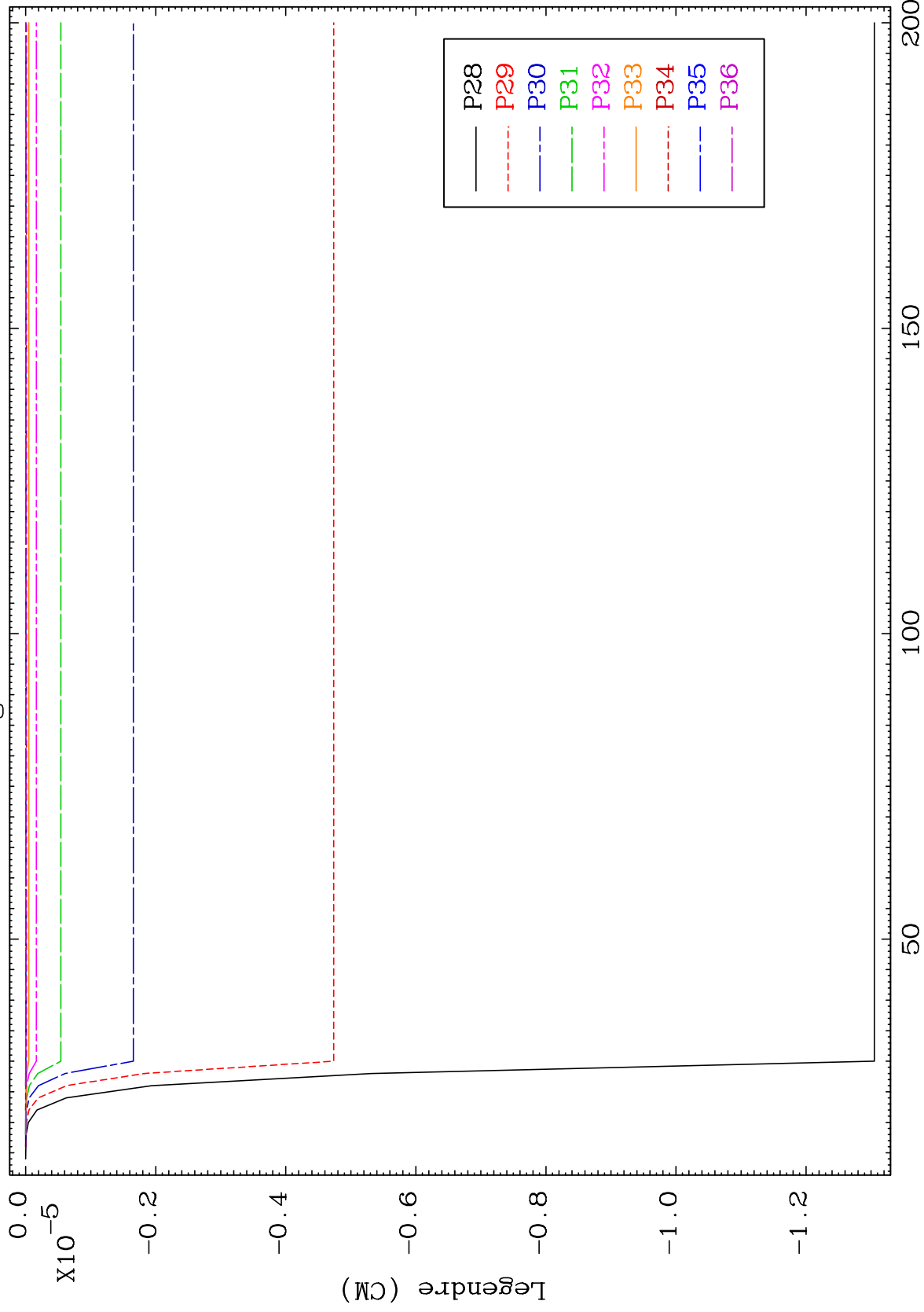
Incident Energy (MeV)

50

MAT 6713

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

67-Ho-161



51

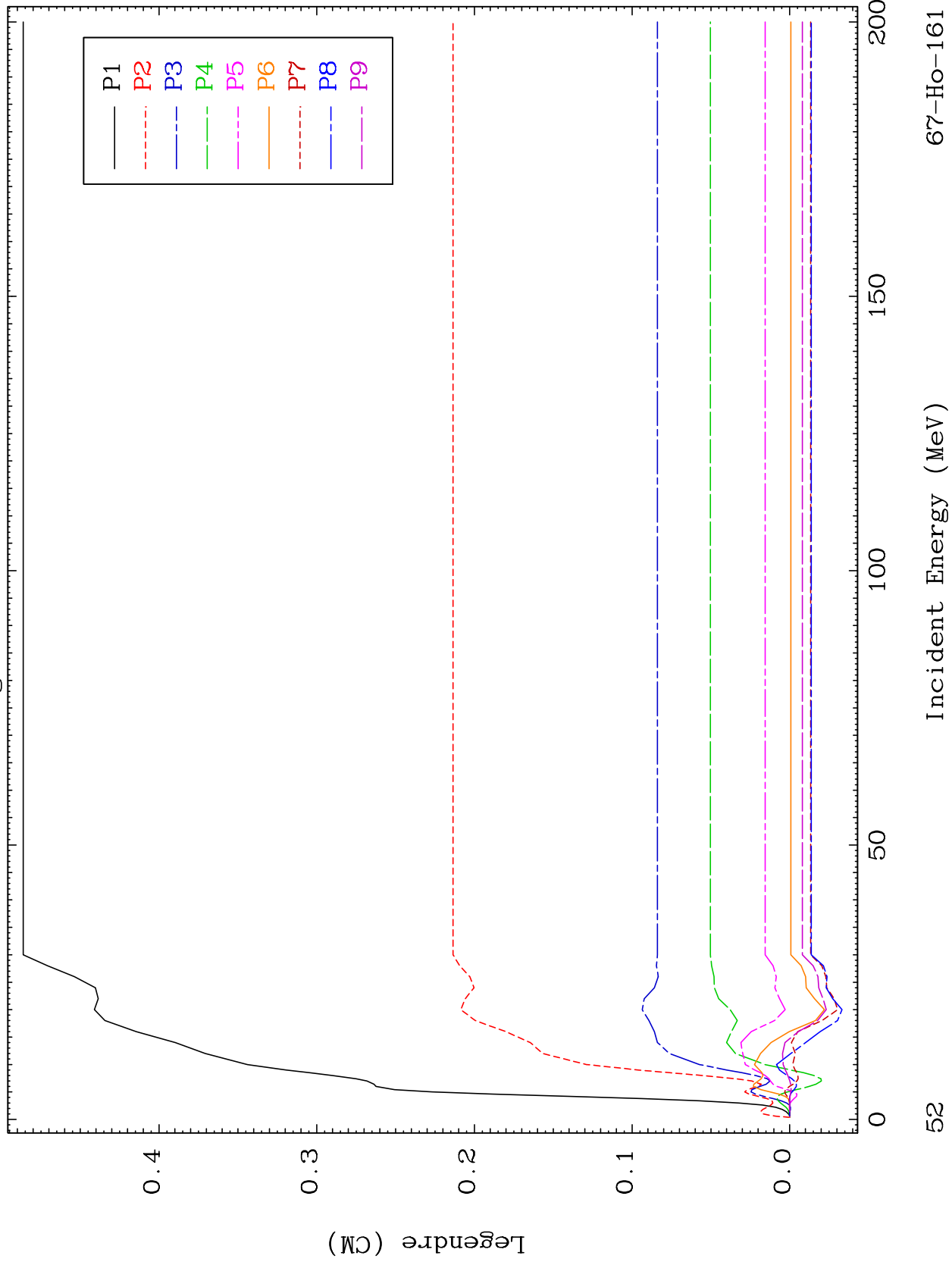
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



67-Ho-161

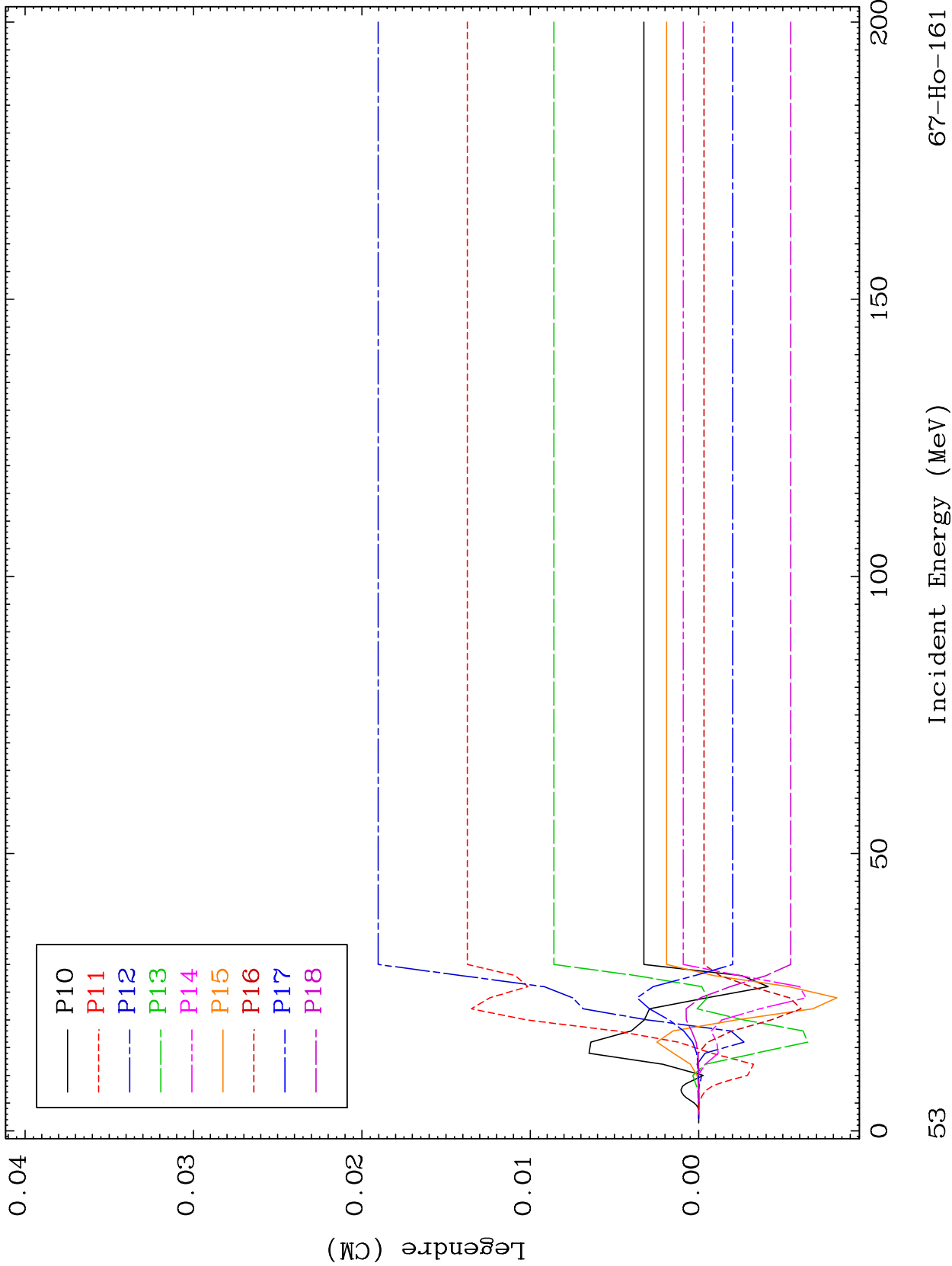
Incident Energy (MeV)

52

MAT 6713

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

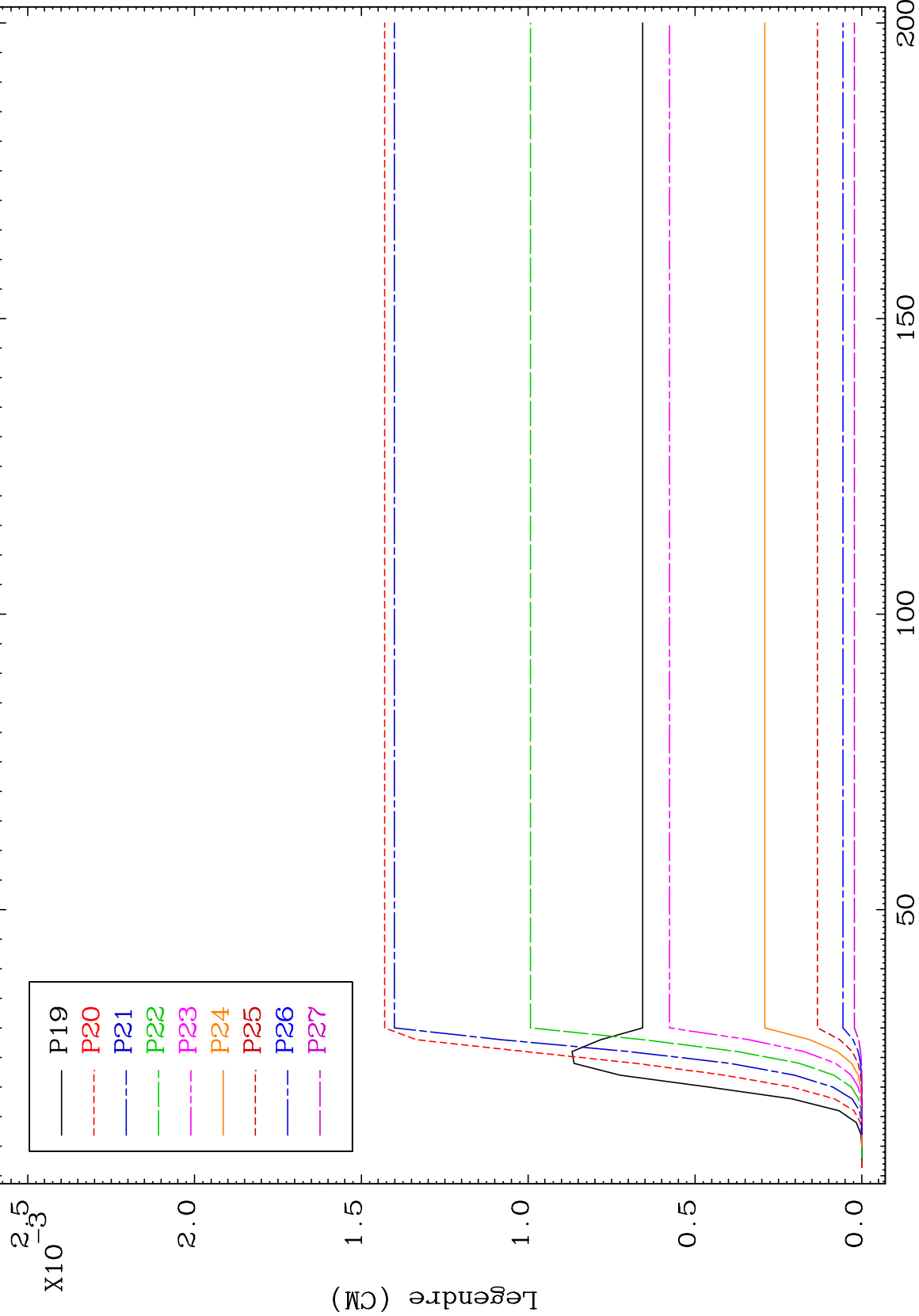
67-Ho-161



53

Incident Energy (MeV)

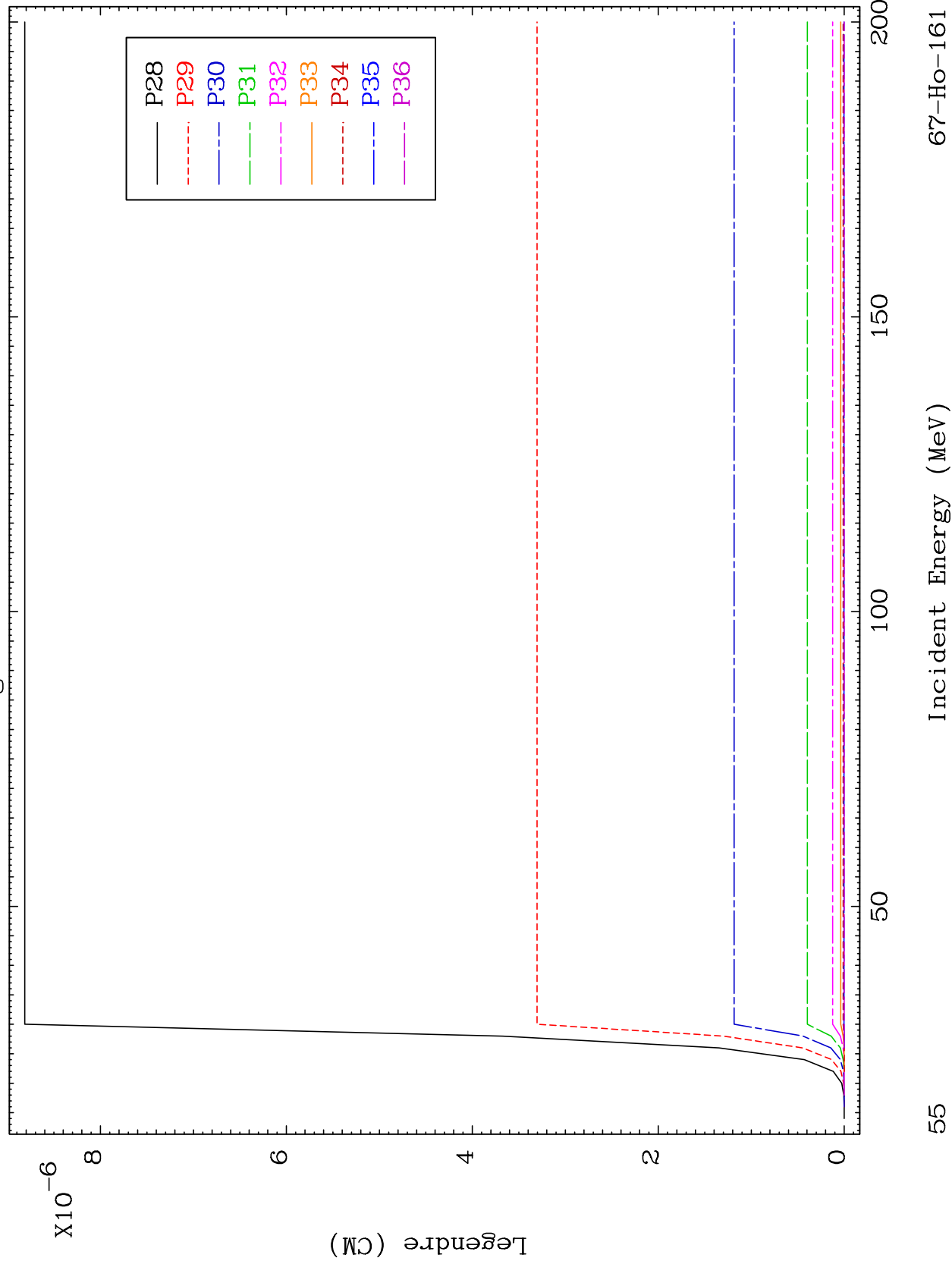
67-Ho-161



MAT 6713

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

67-Ho-161



55

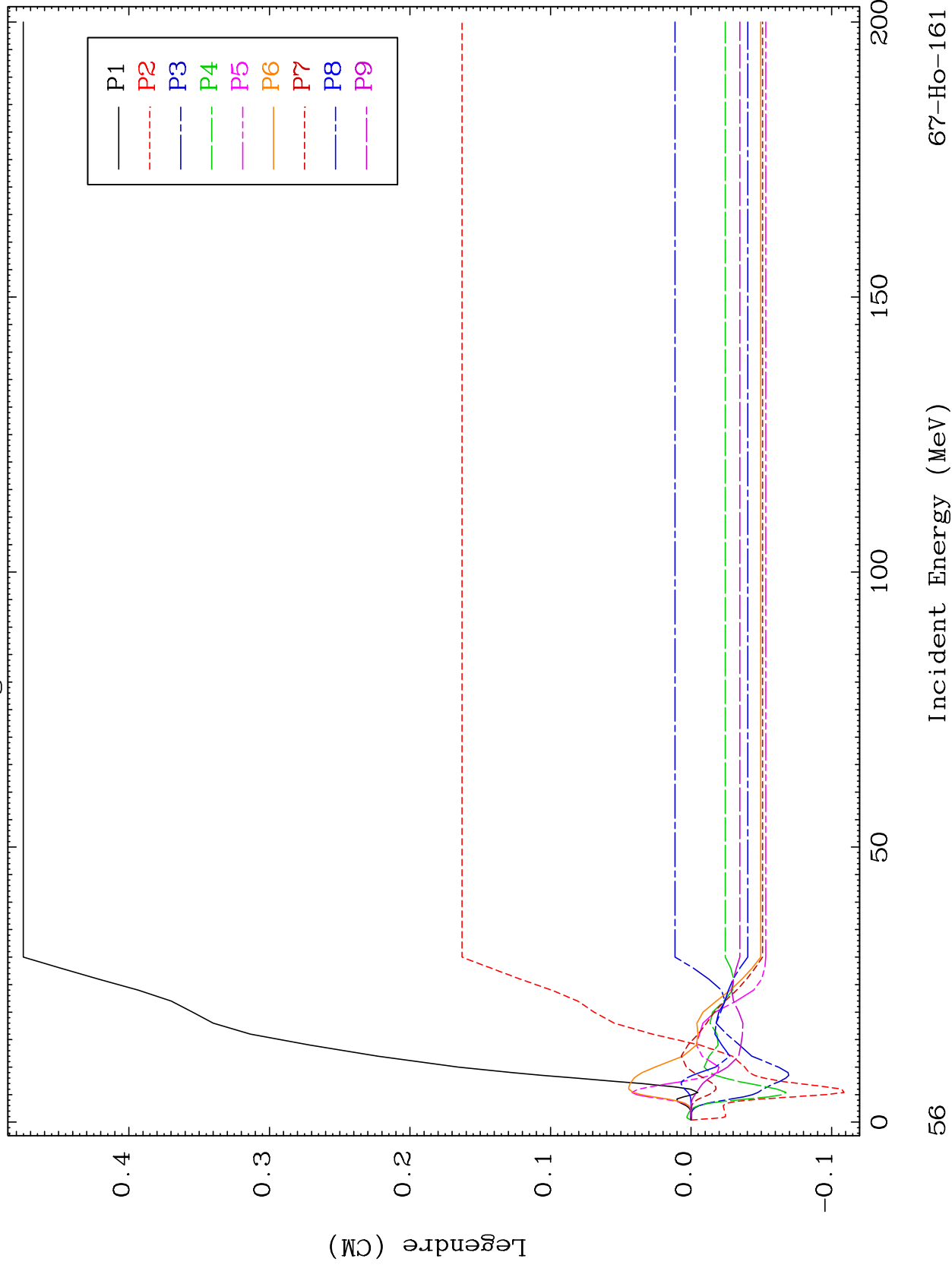
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



67-Ho-161

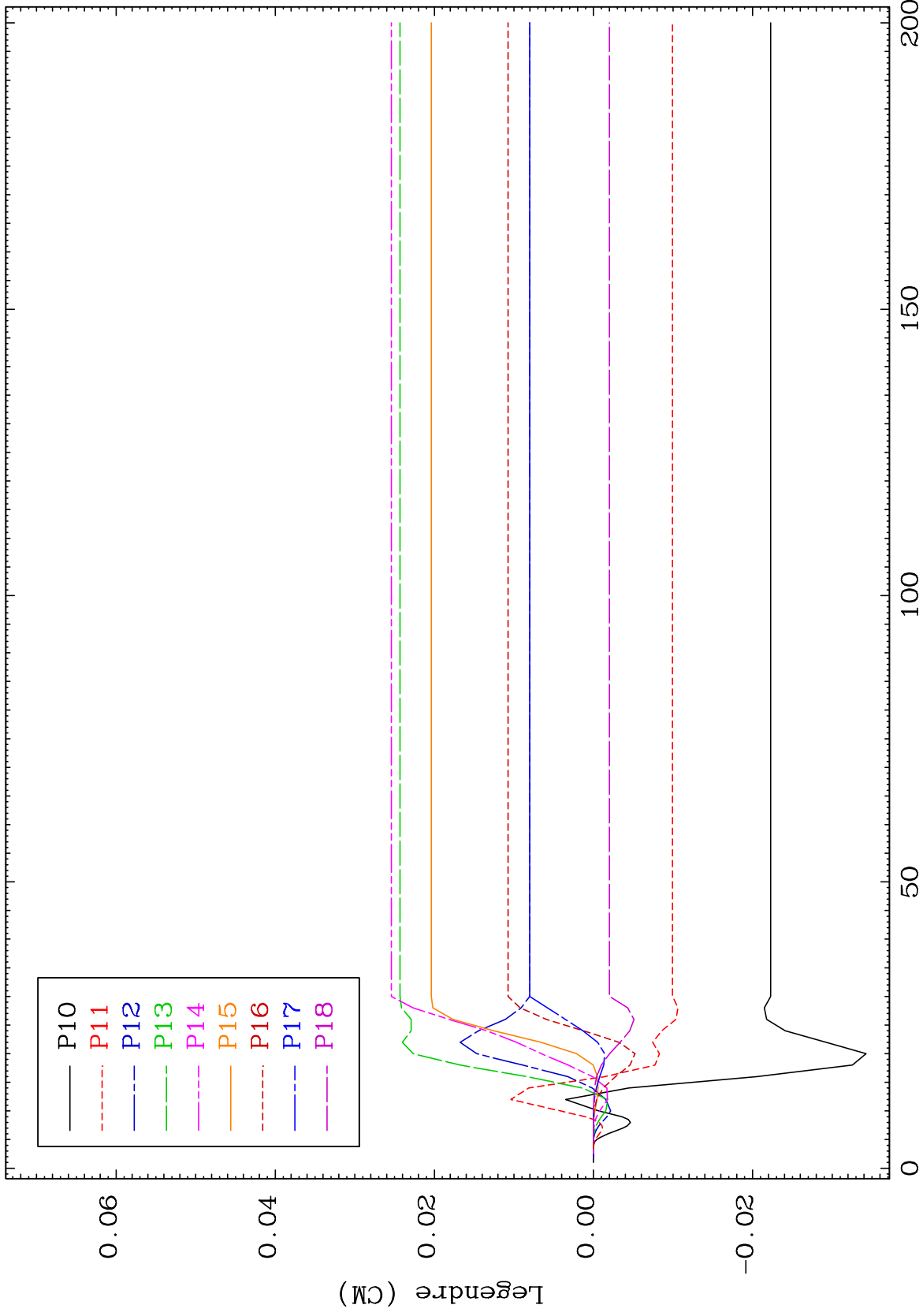
Incident Energy (MeV)

56

MAT 6713

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

67-Ho-161



57

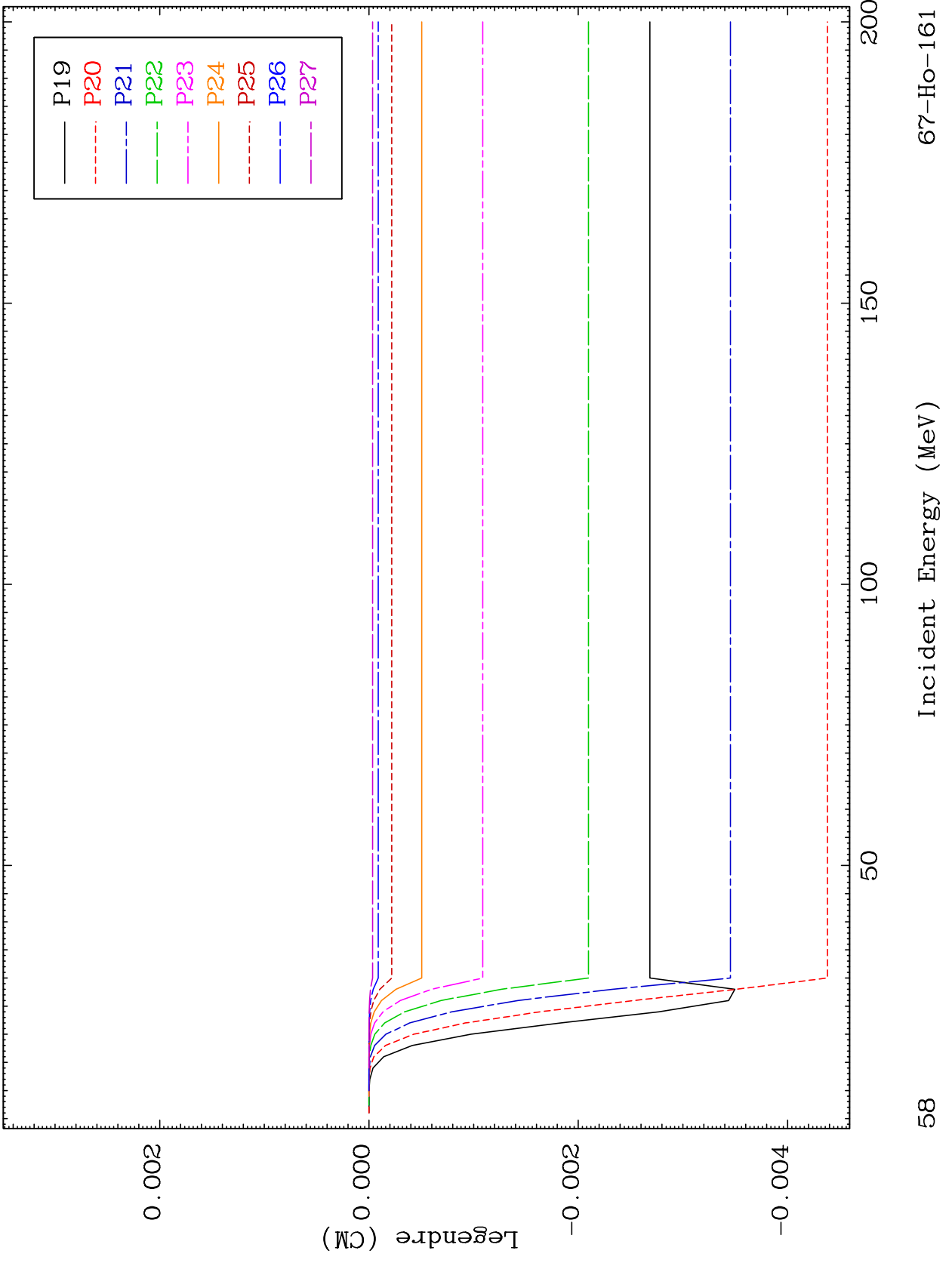
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

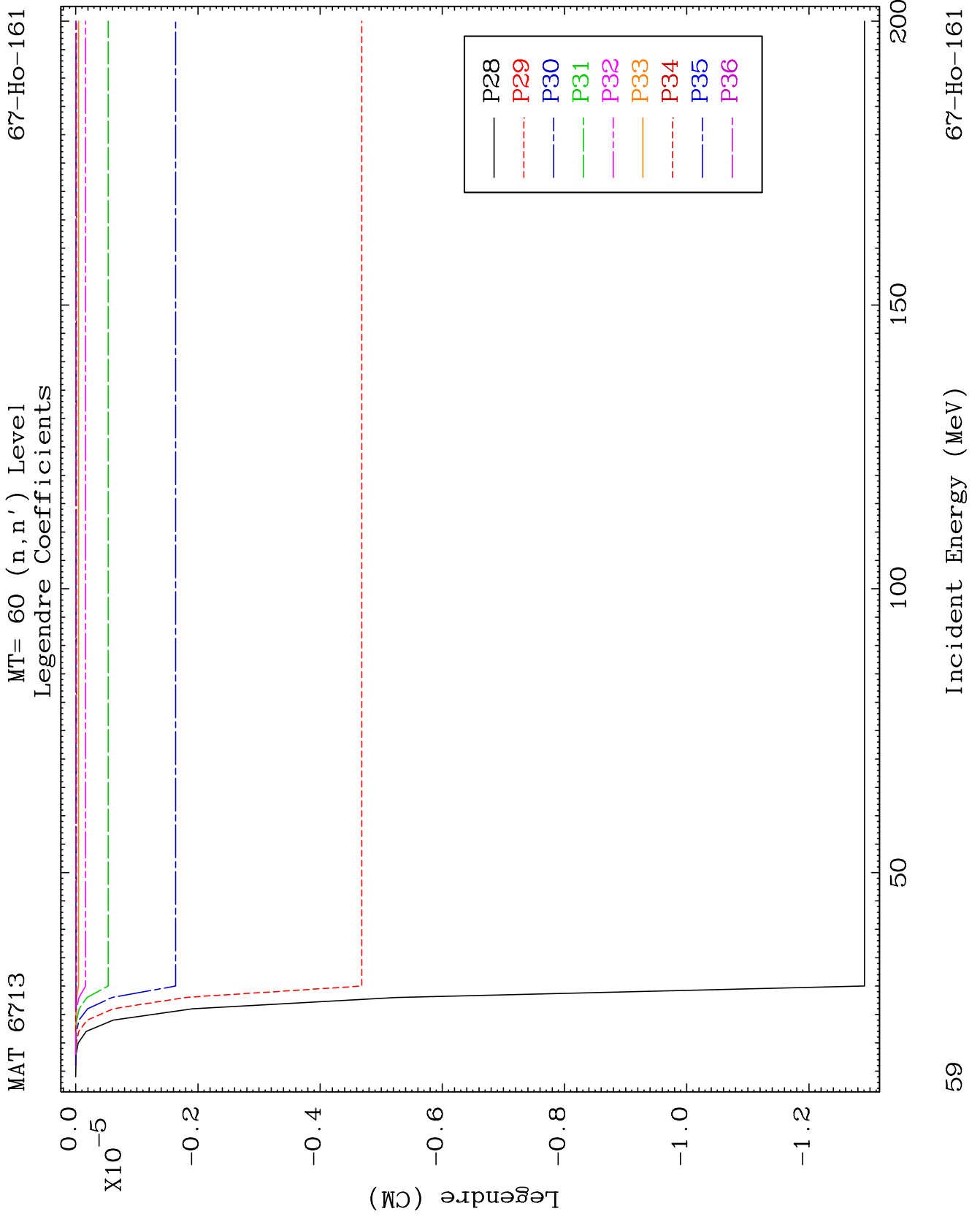
67-Ho-161



58

Incident Energy (MeV)

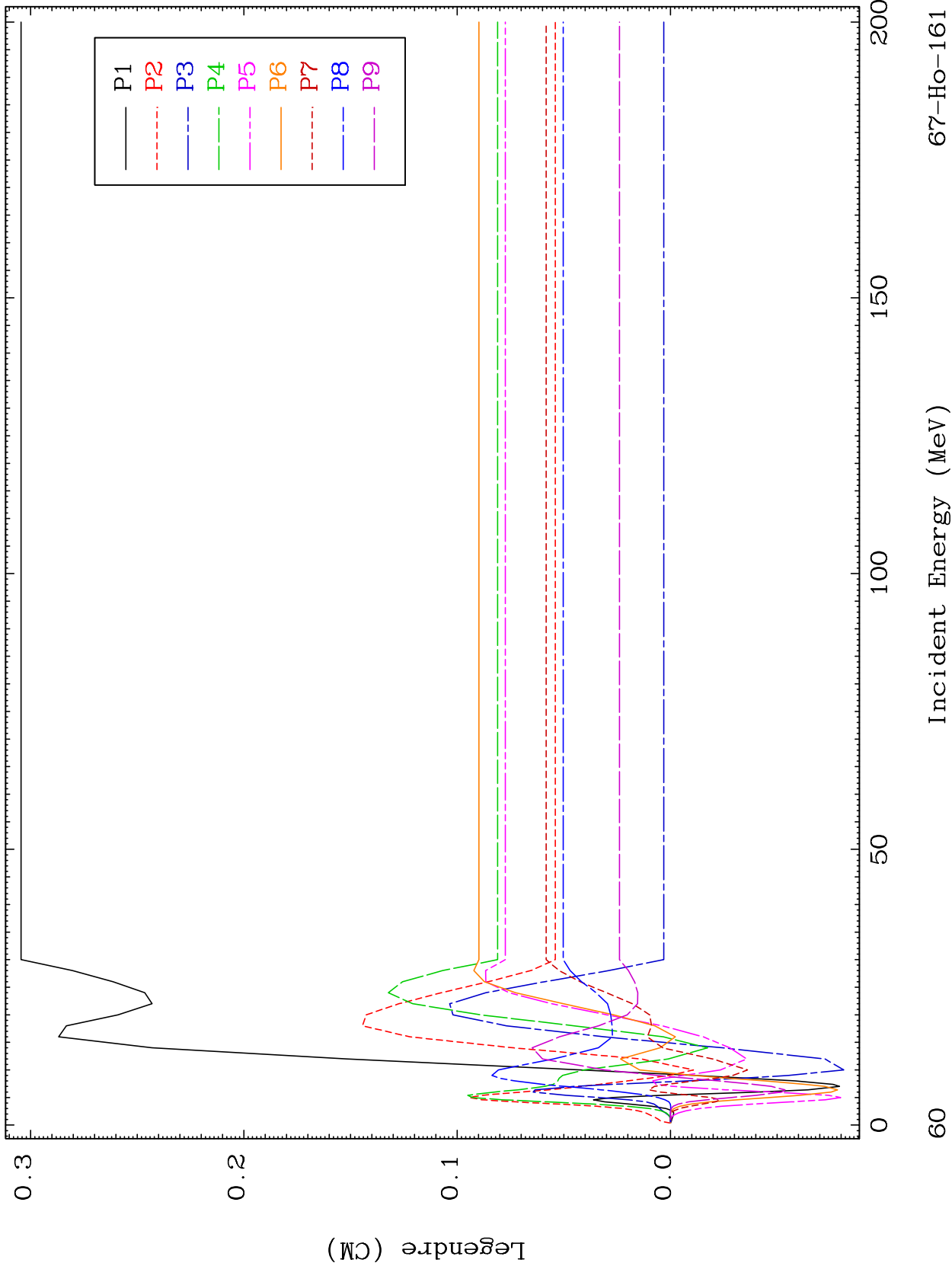
67-Ho-161



MAT 6713

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

67-Ho-161



67-Ho-161

Incident Energy (MeV)

60

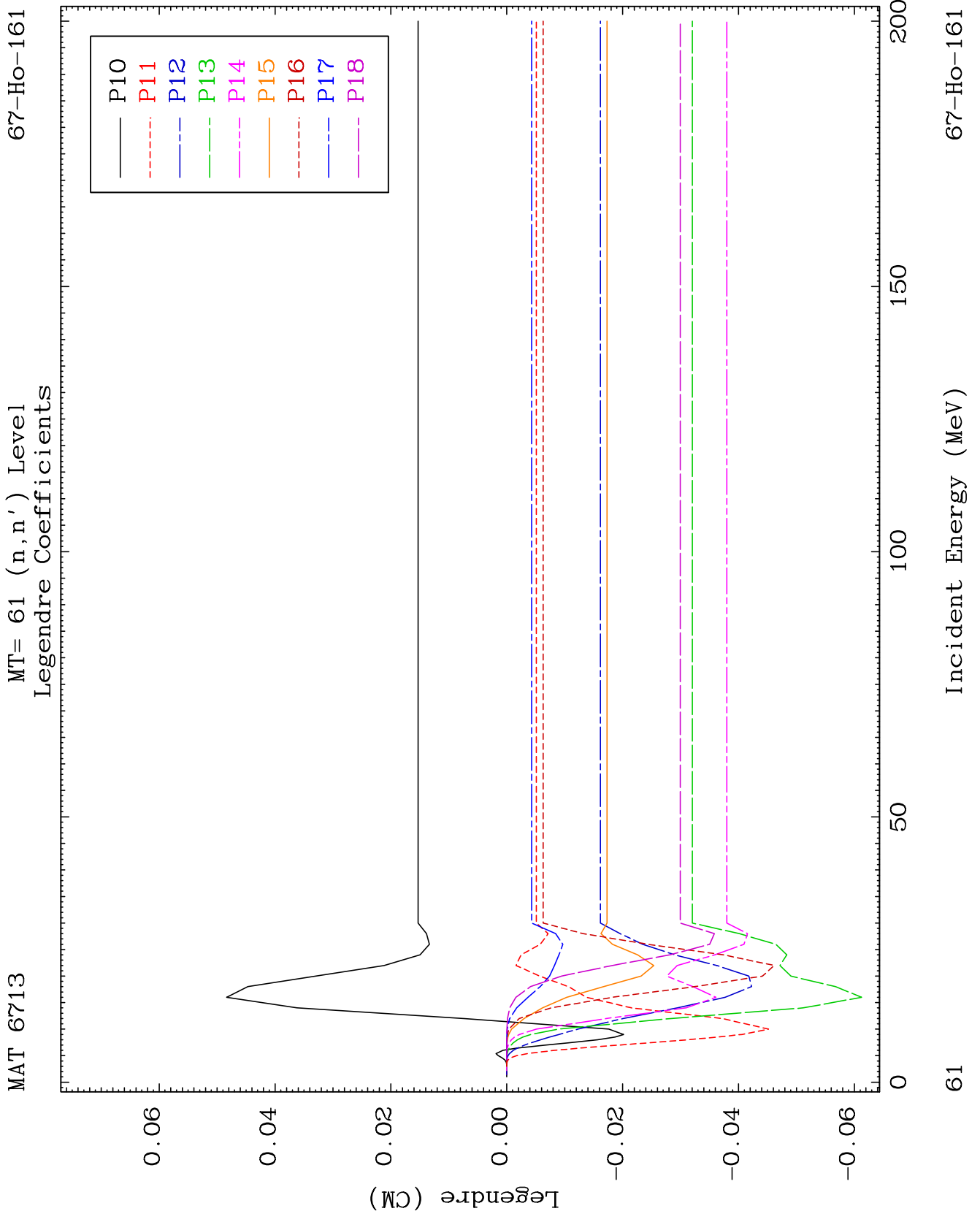
0

50

100

150

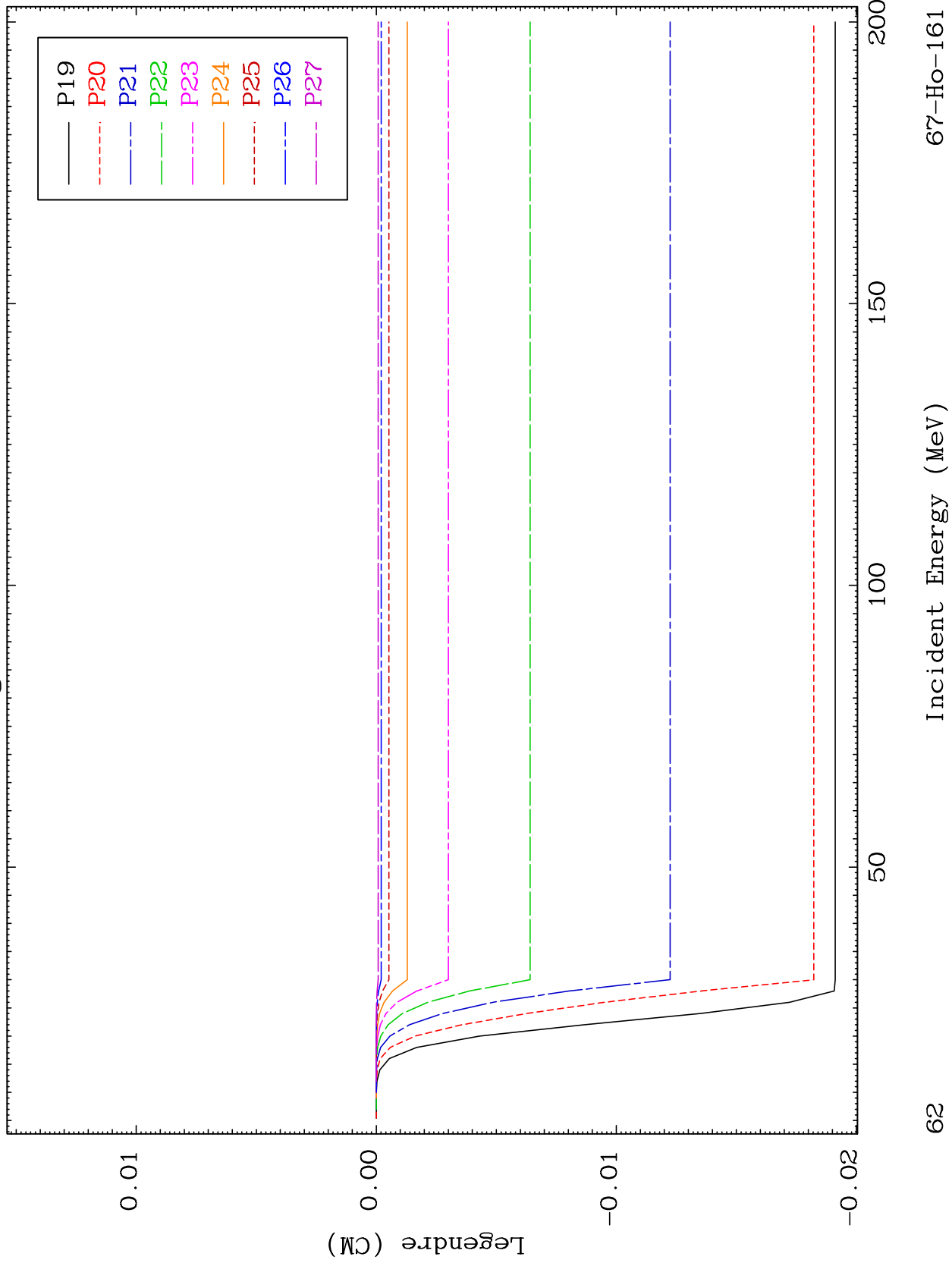
200



MAT 6713

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

67-Ho-161



62

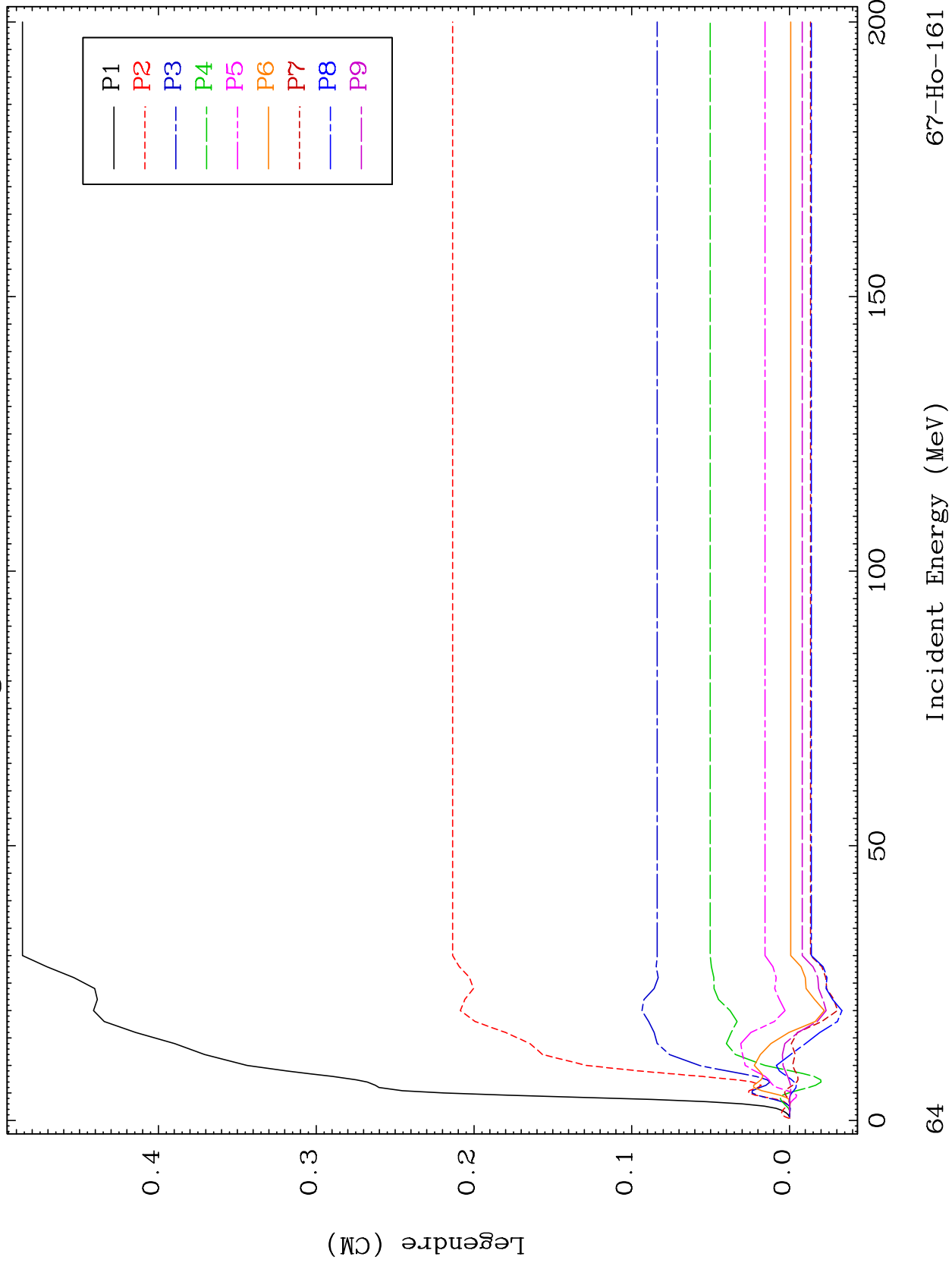
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



67-Ho-161

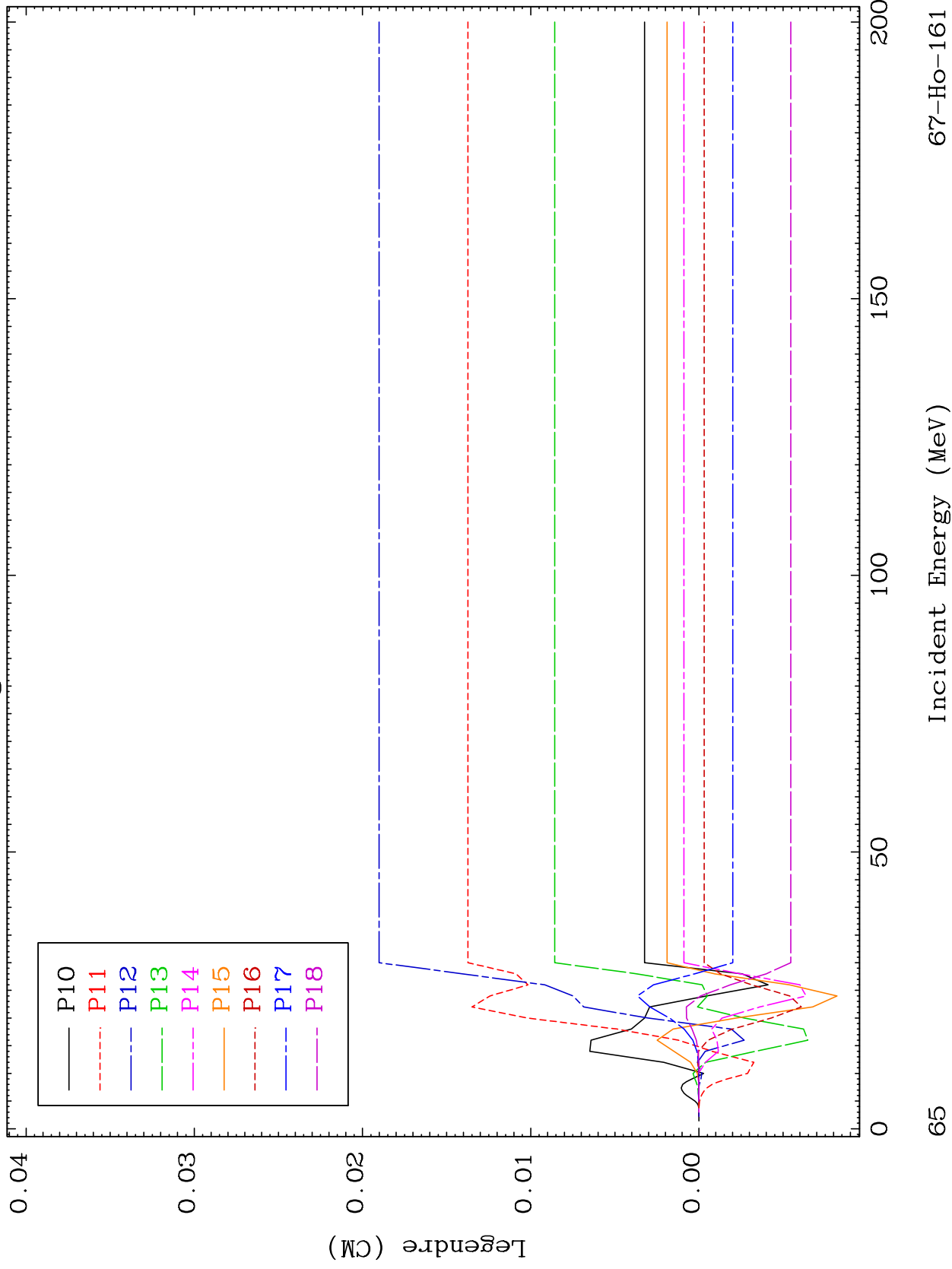
Incident Energy (MeV)

64

MAT 6713

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

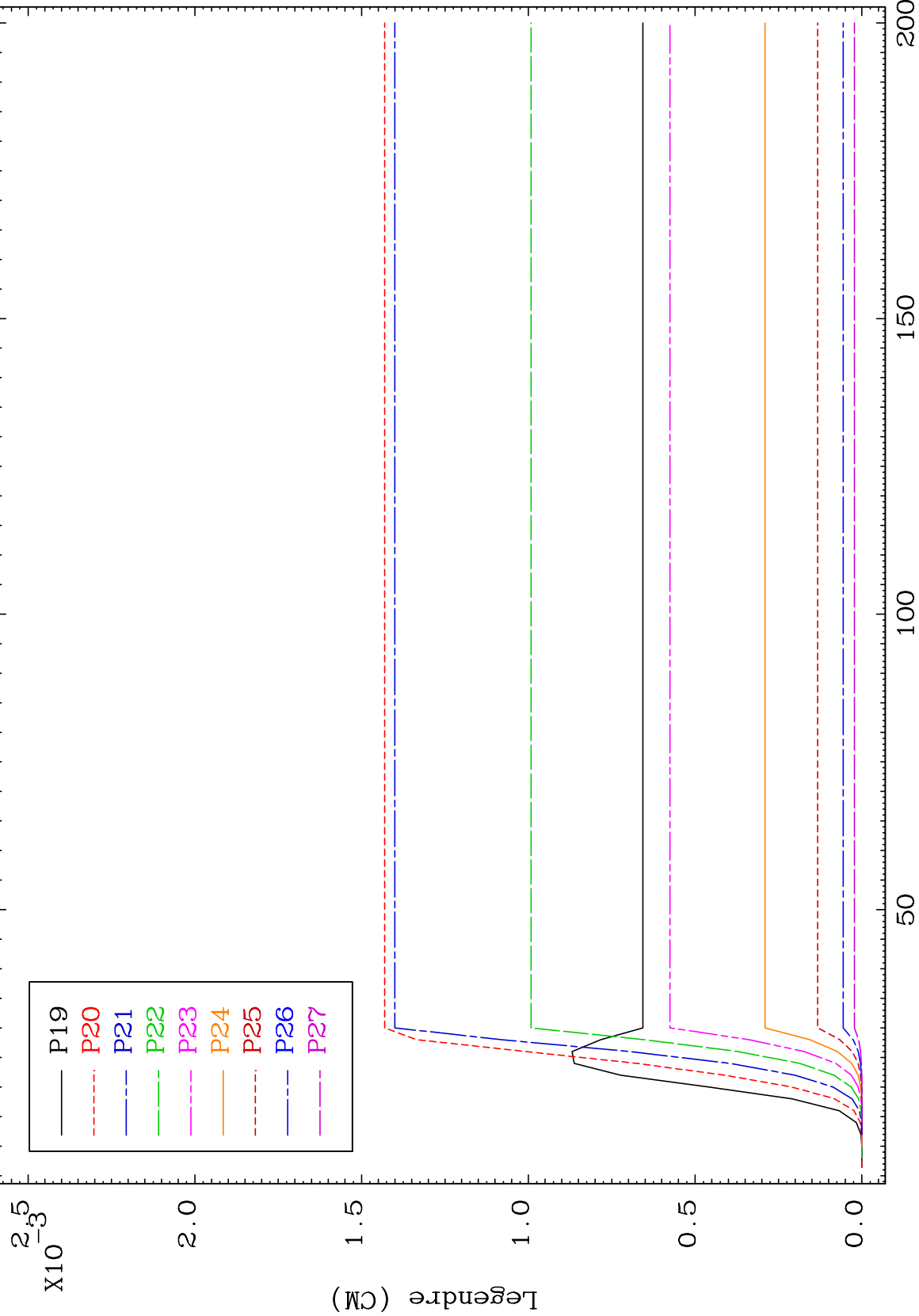
67-Ho-161



67-Ho-161

Incident Energy (MeV)

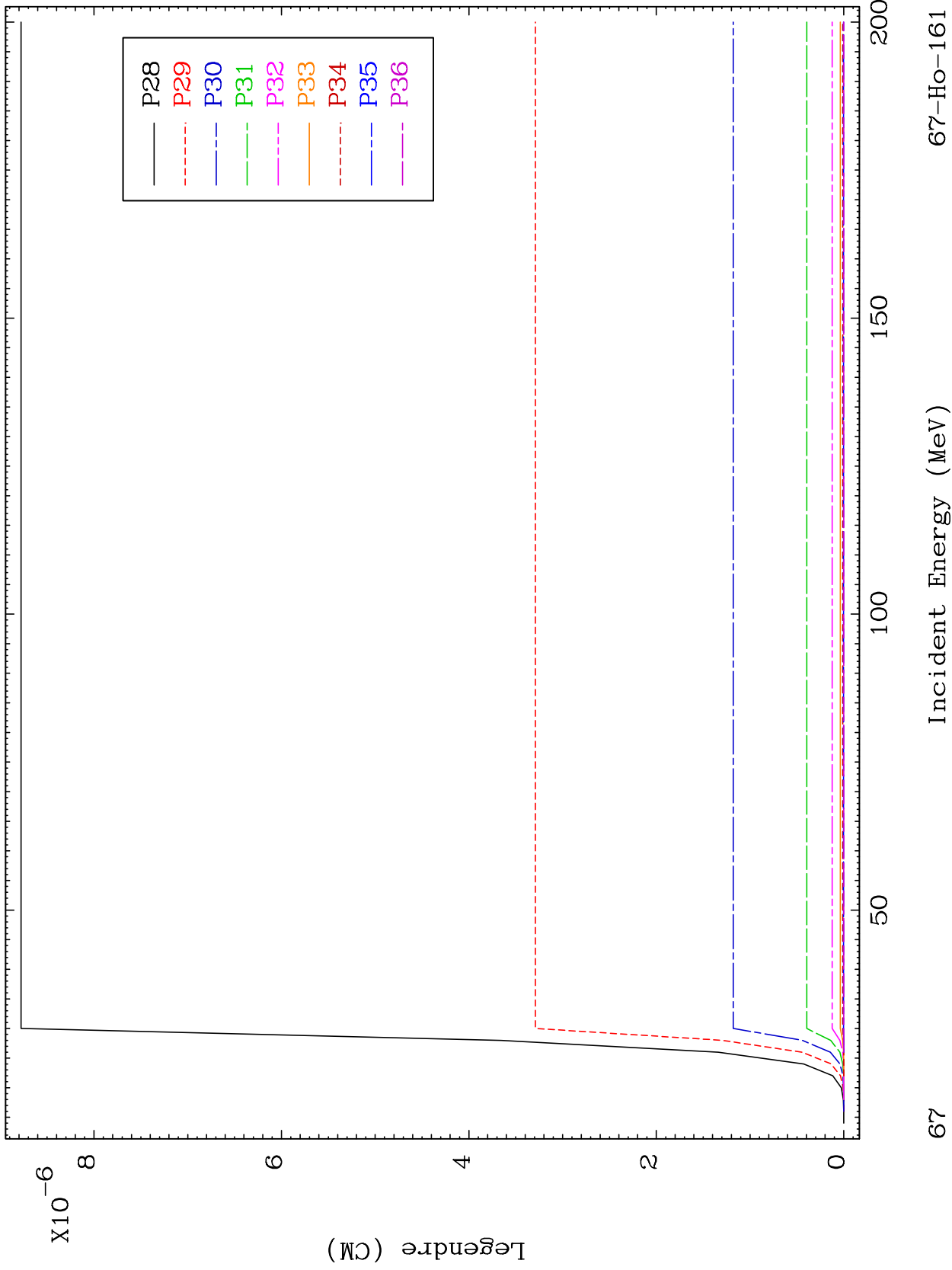
65



MAT 6713

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

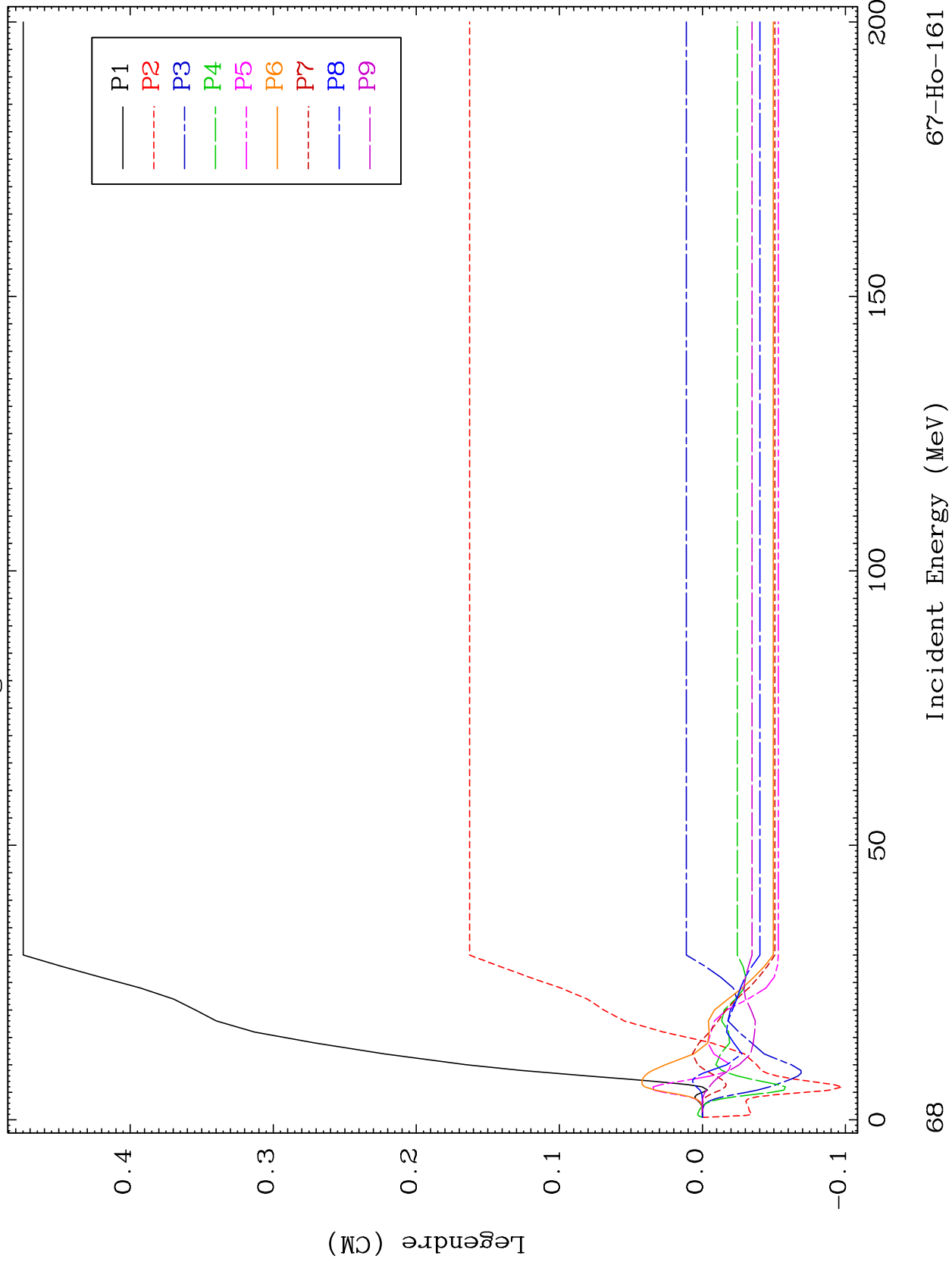
67-Ho-161



MAT 6713

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

67-Ho-161



67-Ho-161

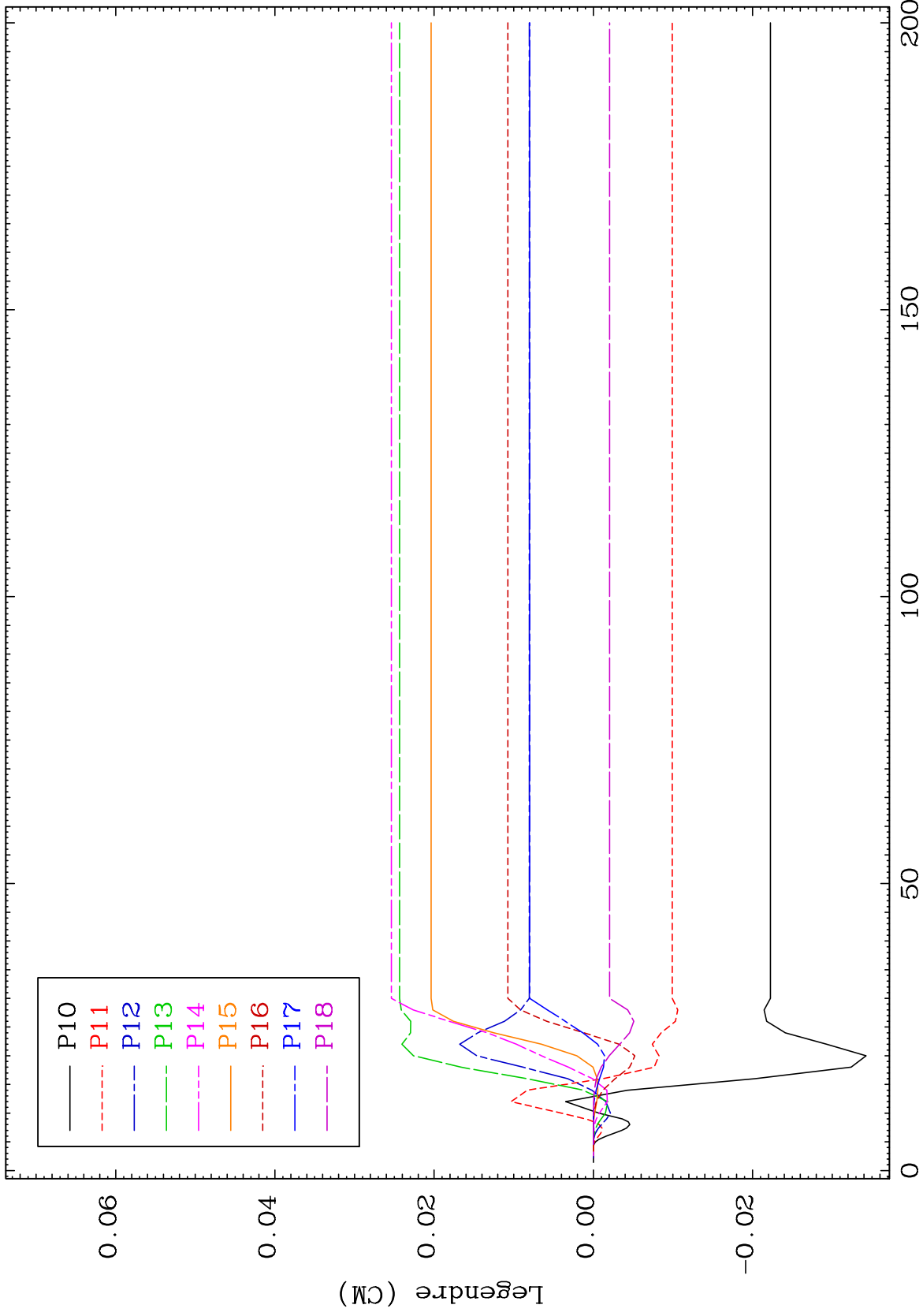
Incident Energy (MeV)

68

MAT 6713

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

67-Ho-161



69

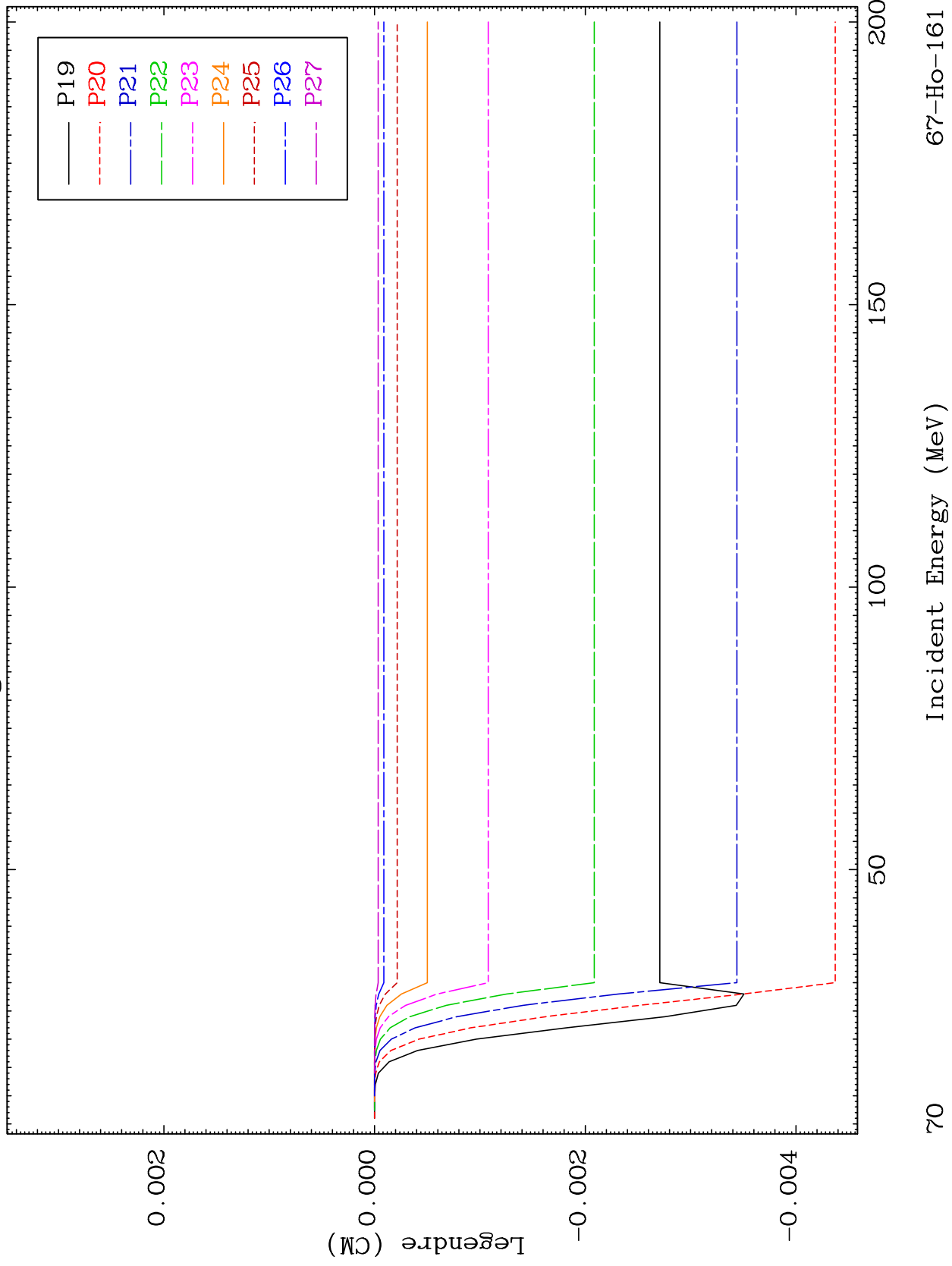
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

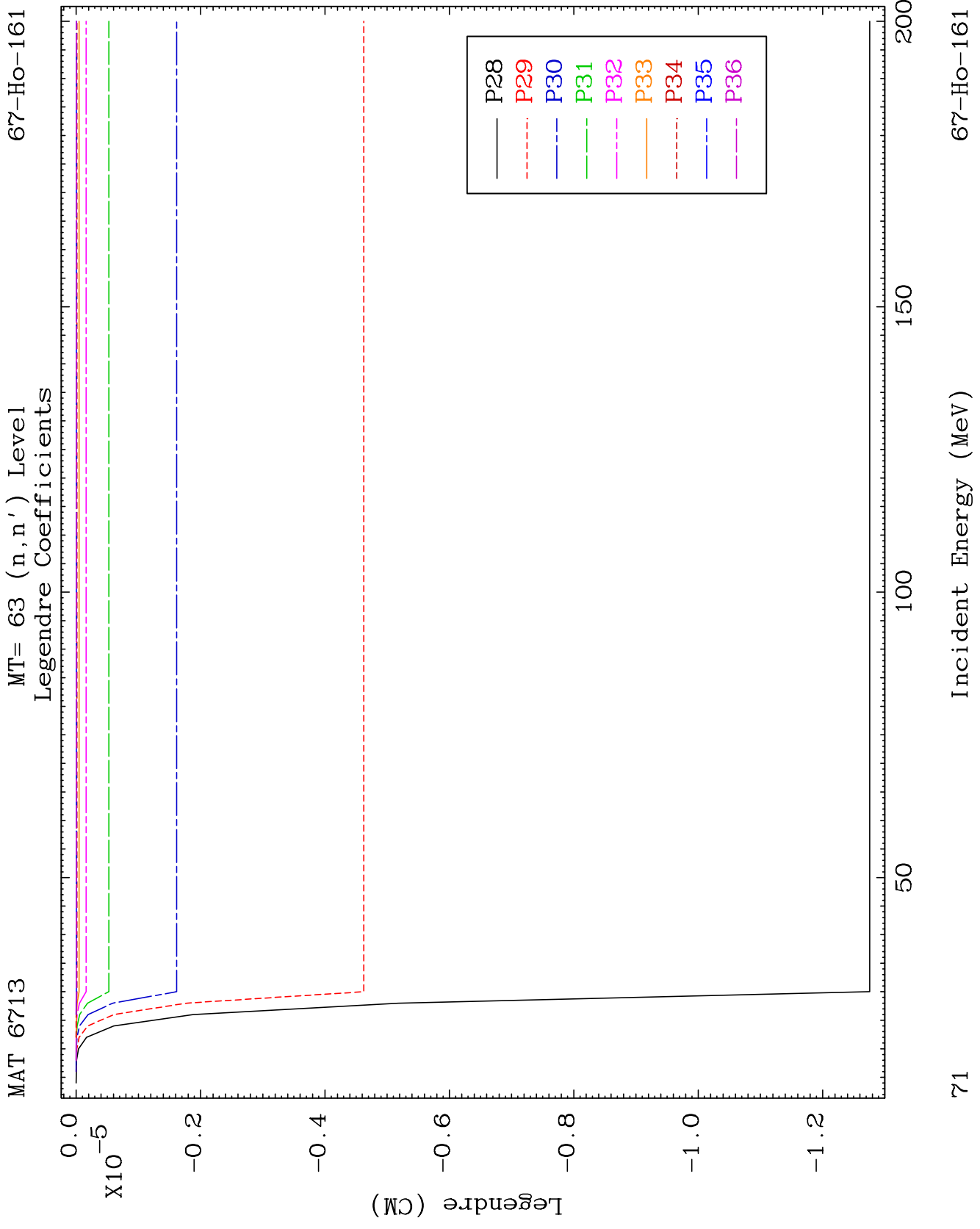
67-Ho-161



70

Incident Energy (MeV)

67-Ho-161

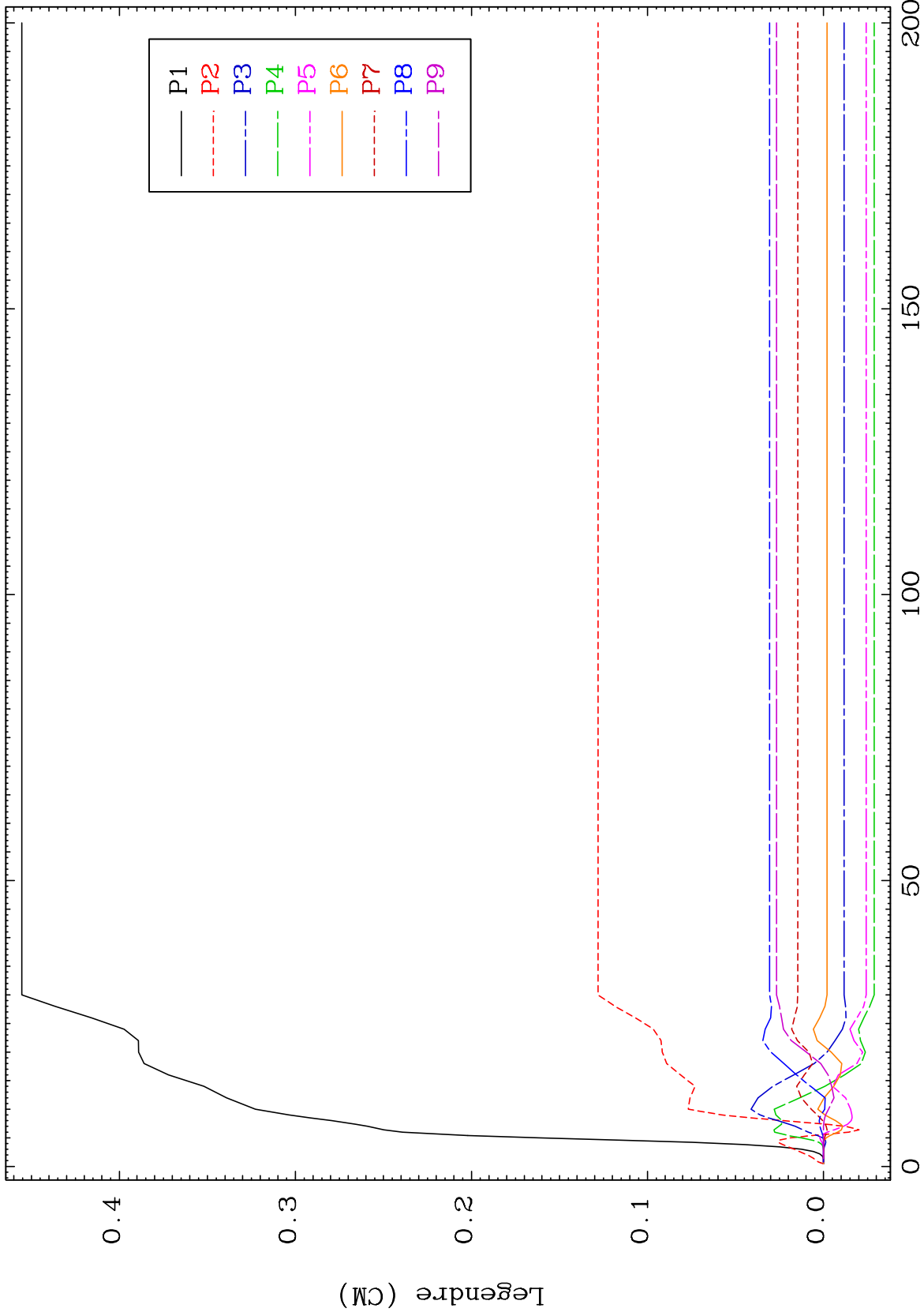


MAT 6713

MT= 64 (n,n') Level

67-Ho-161

Legendre Coefficients



72

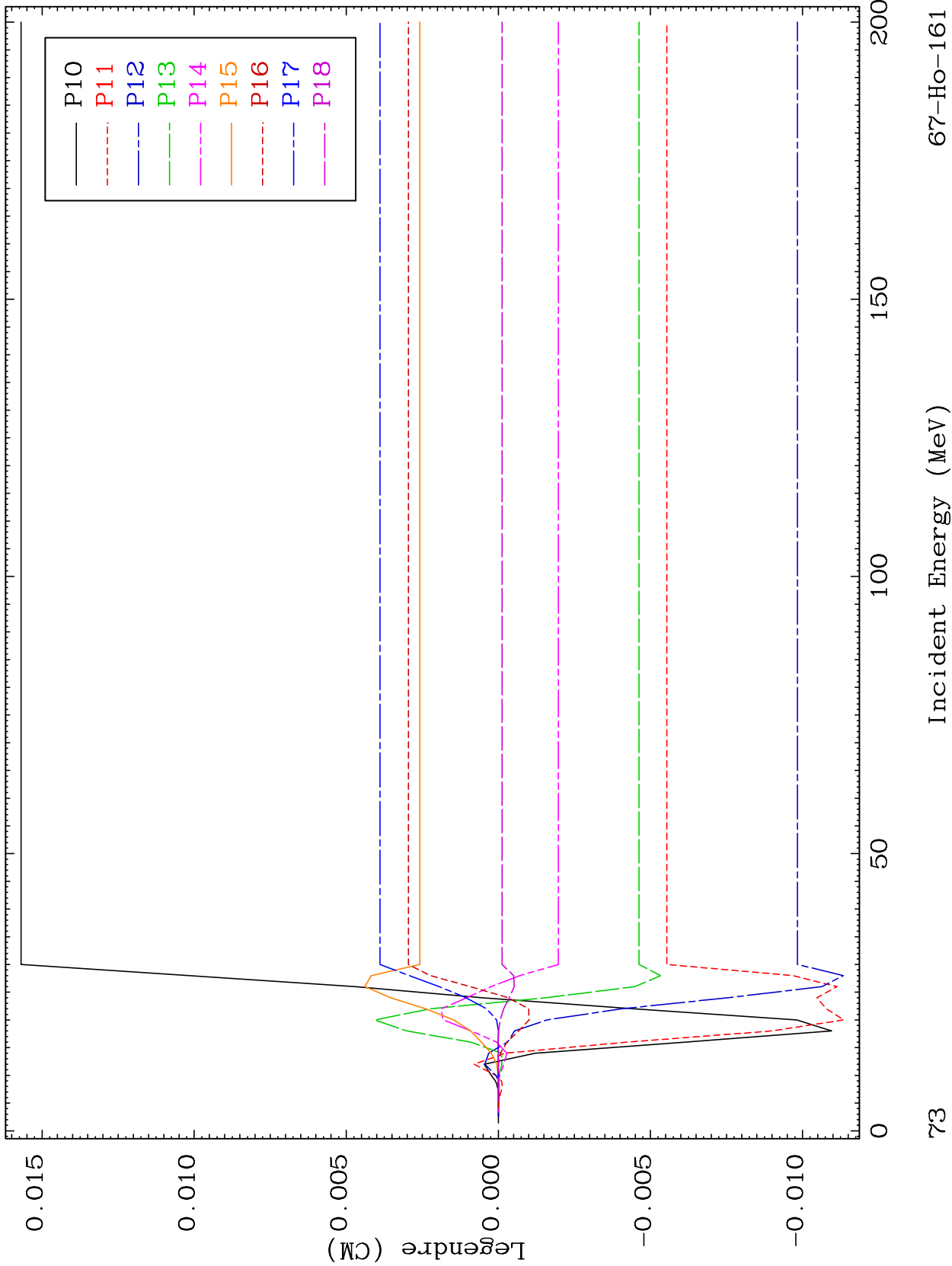
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

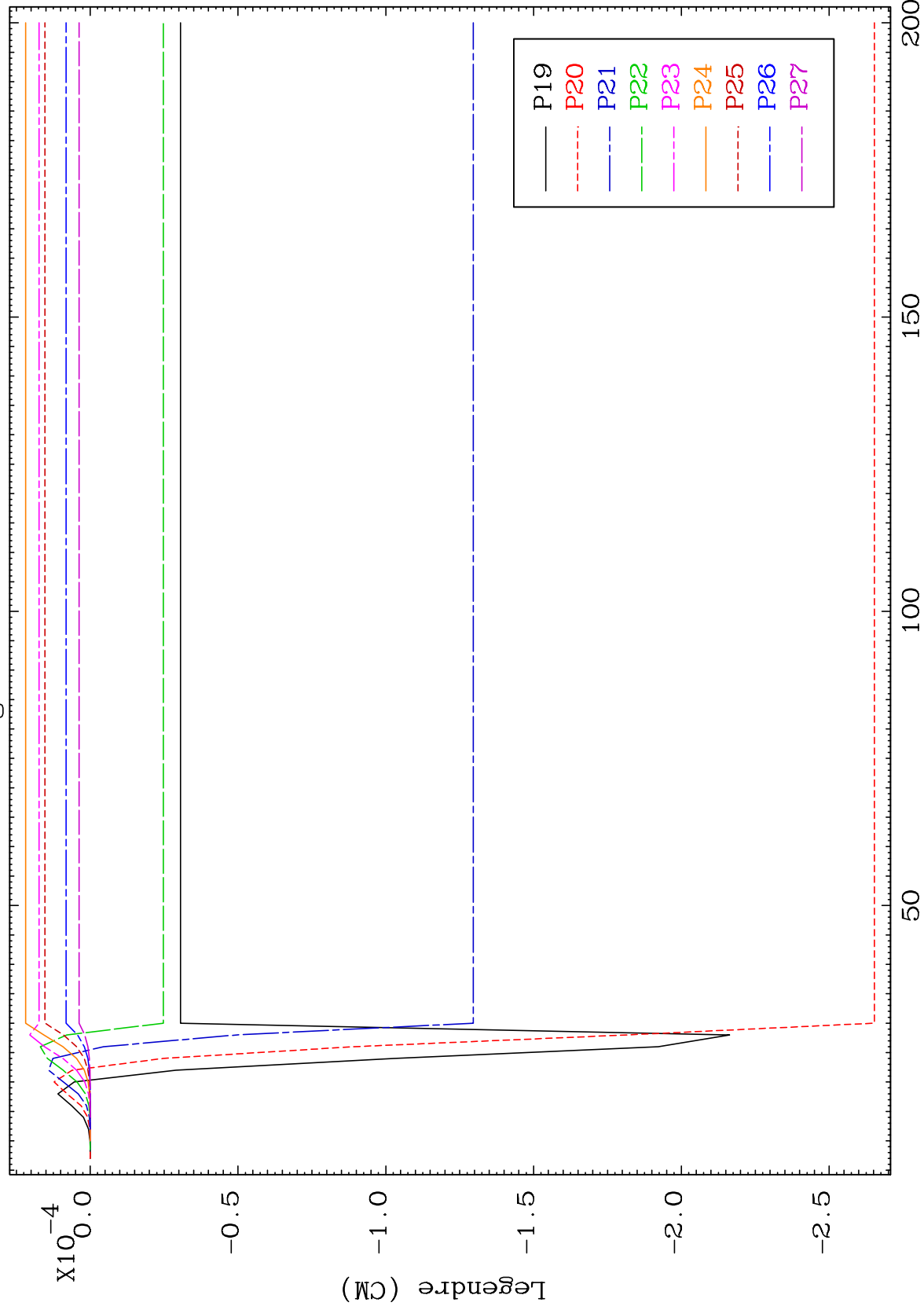
67-Ho-161



MAT 6713

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

67-Ho-161



74

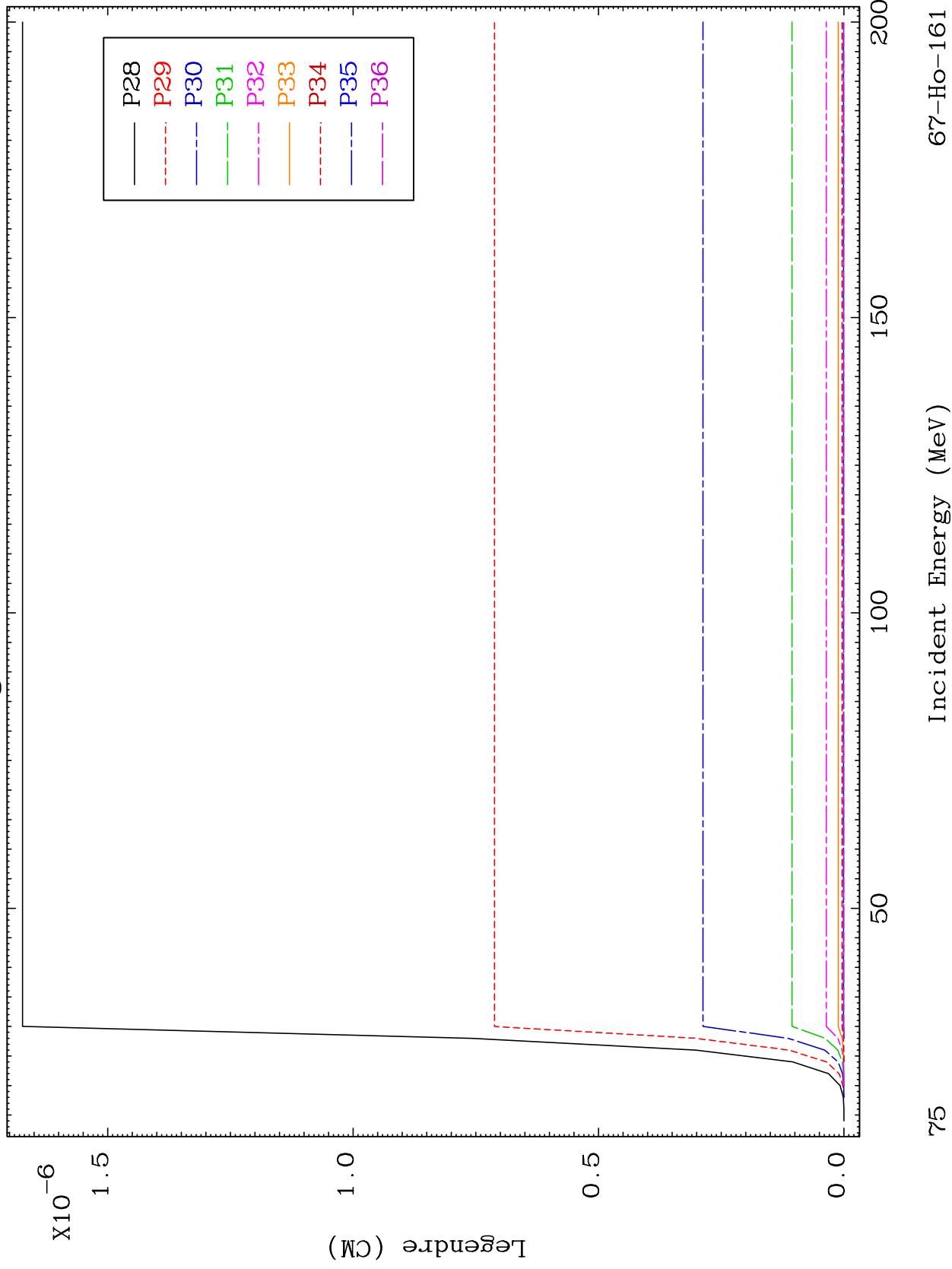
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



75

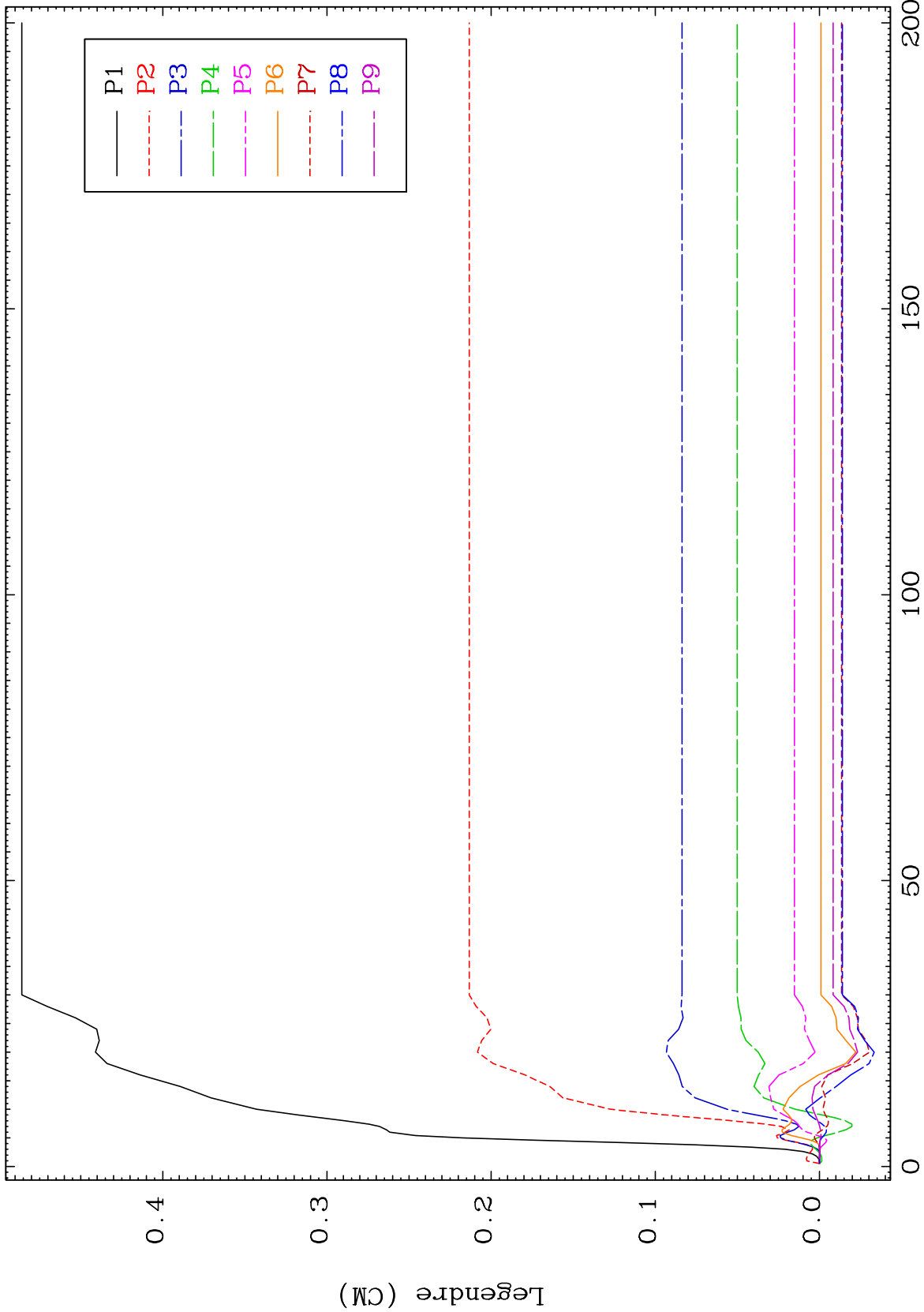
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

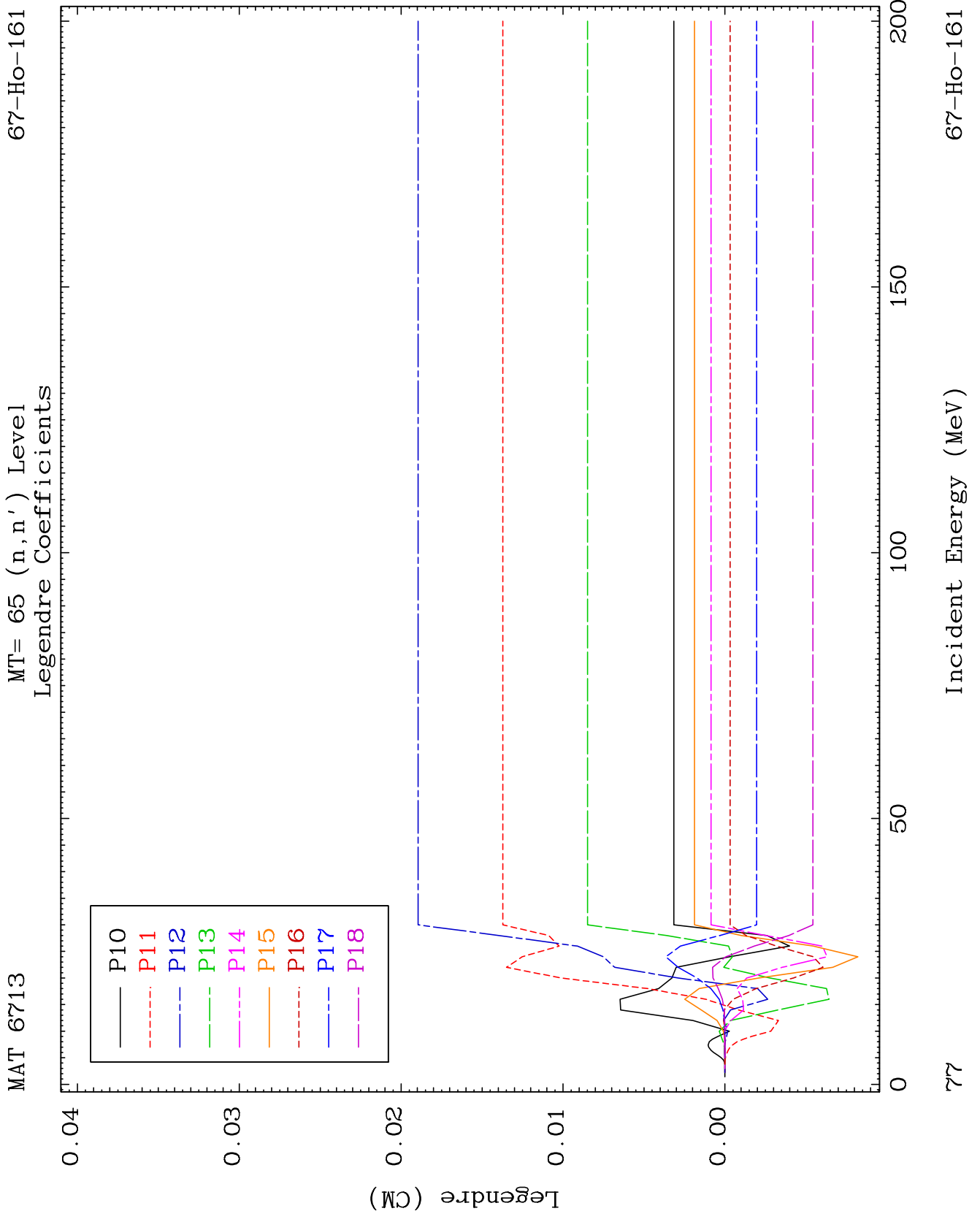
67-Ho-161



76

Incident Energy (MeV)

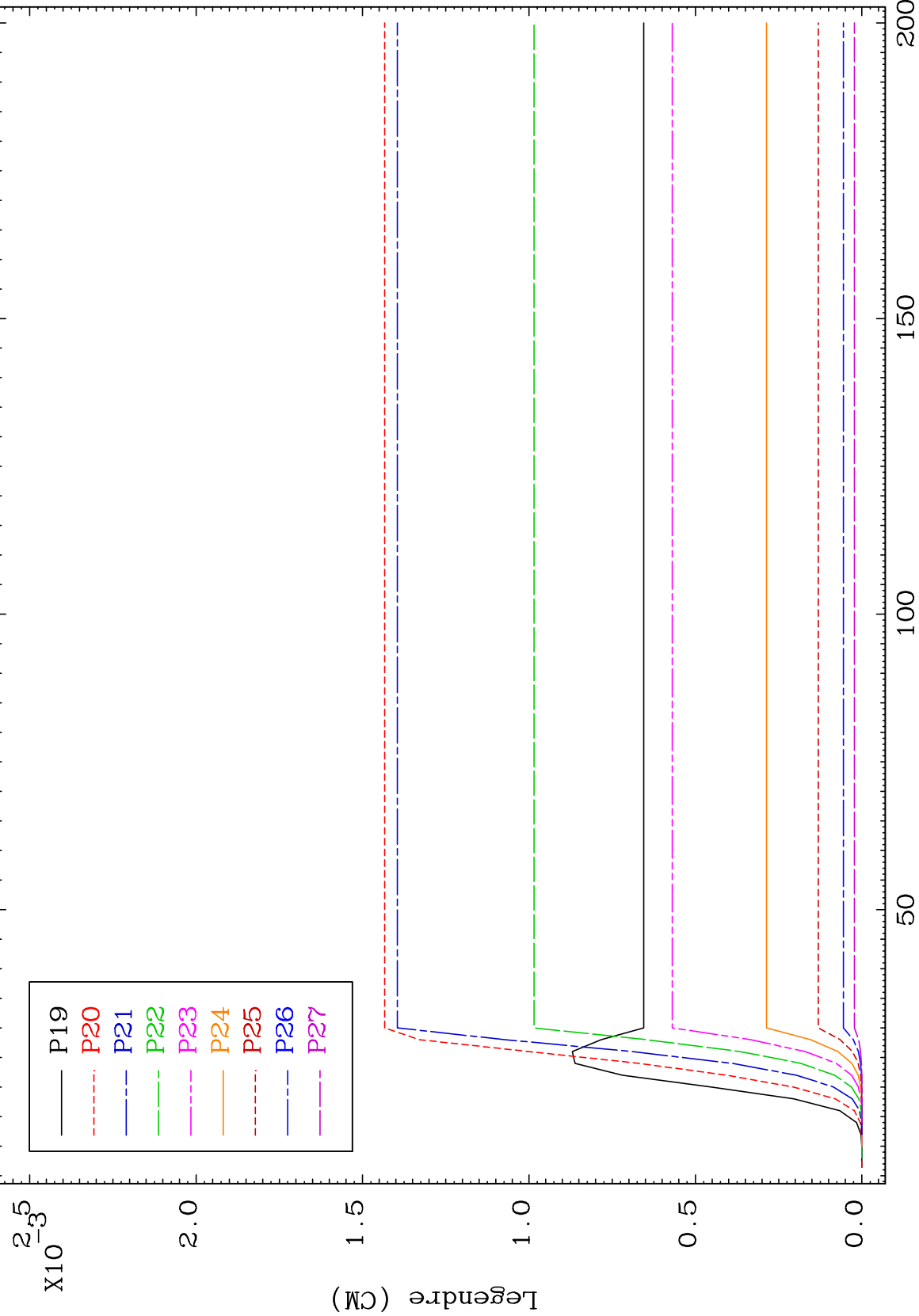
67-Ho-161



MAT 6713

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

67-Ho-161



78

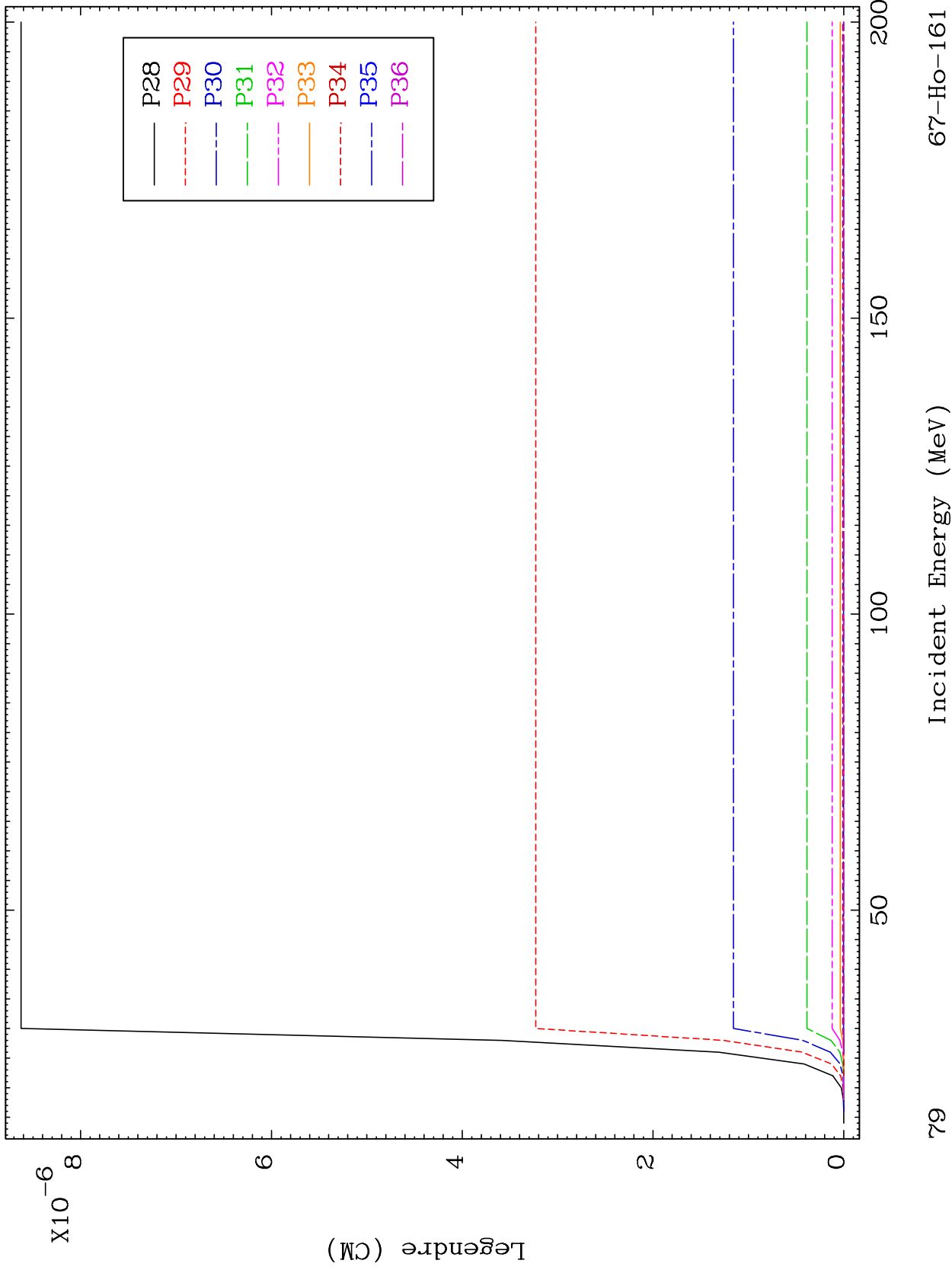
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

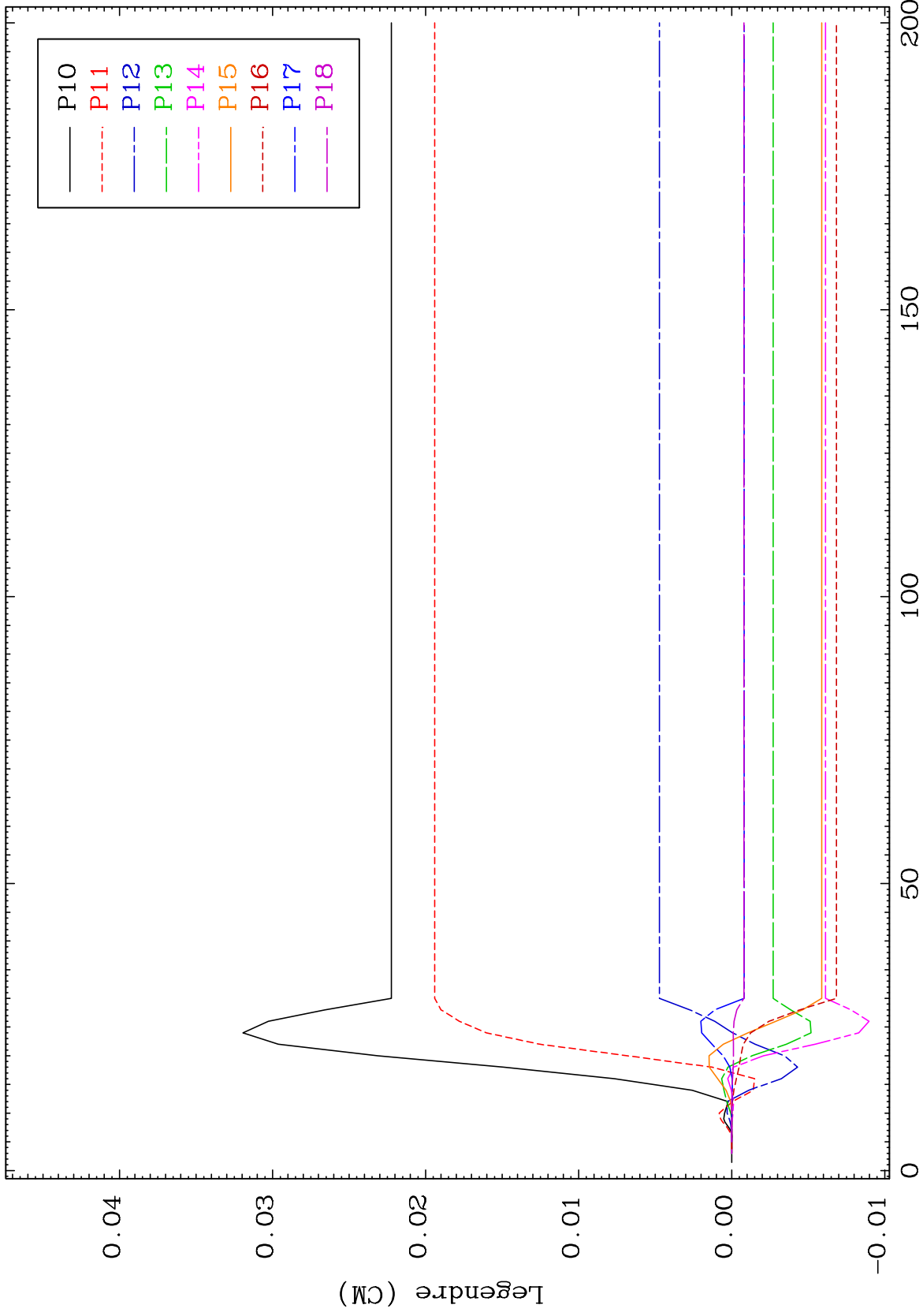
67-Ho-161



MAT 6713

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

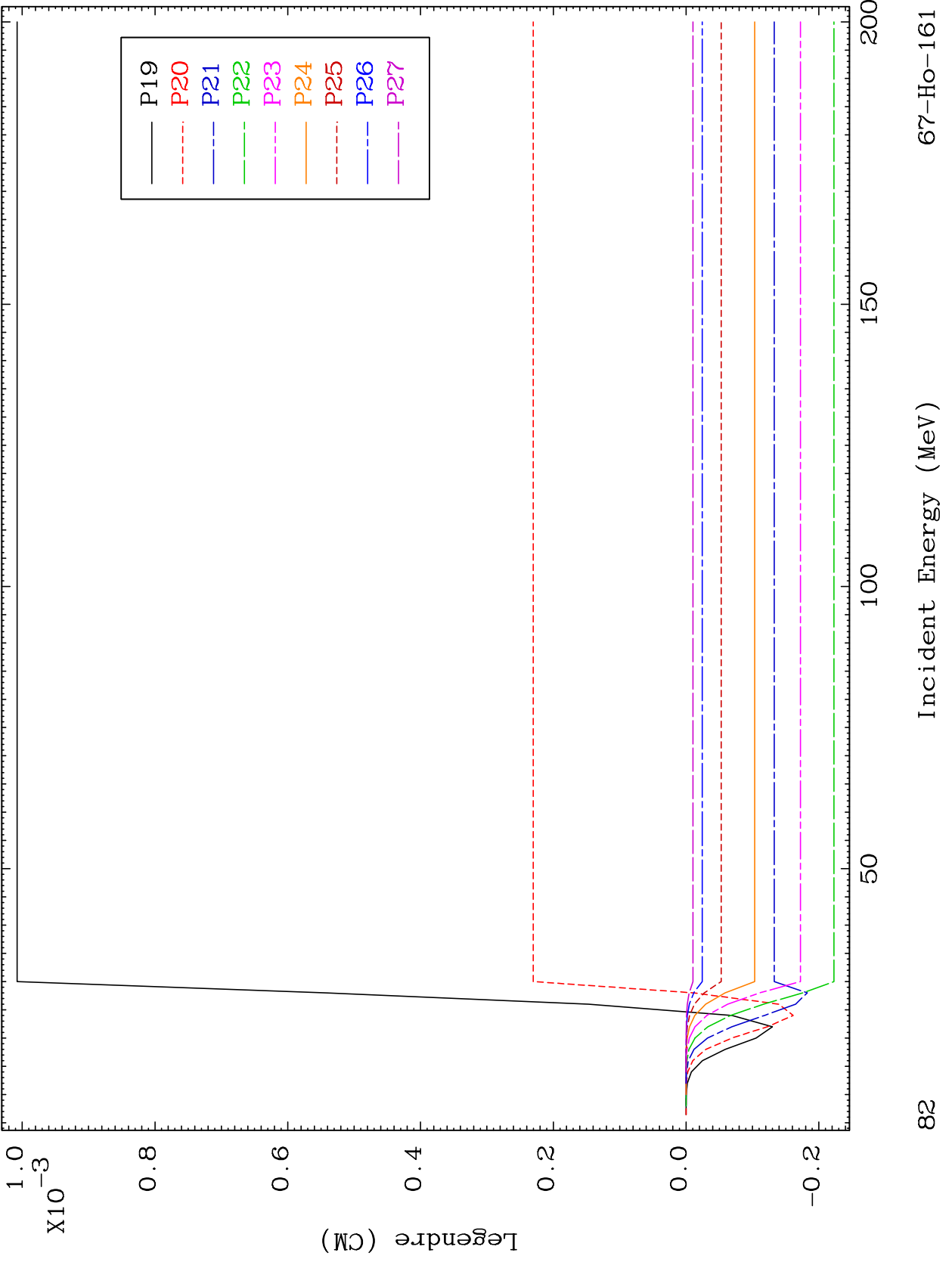
67-Ho-161

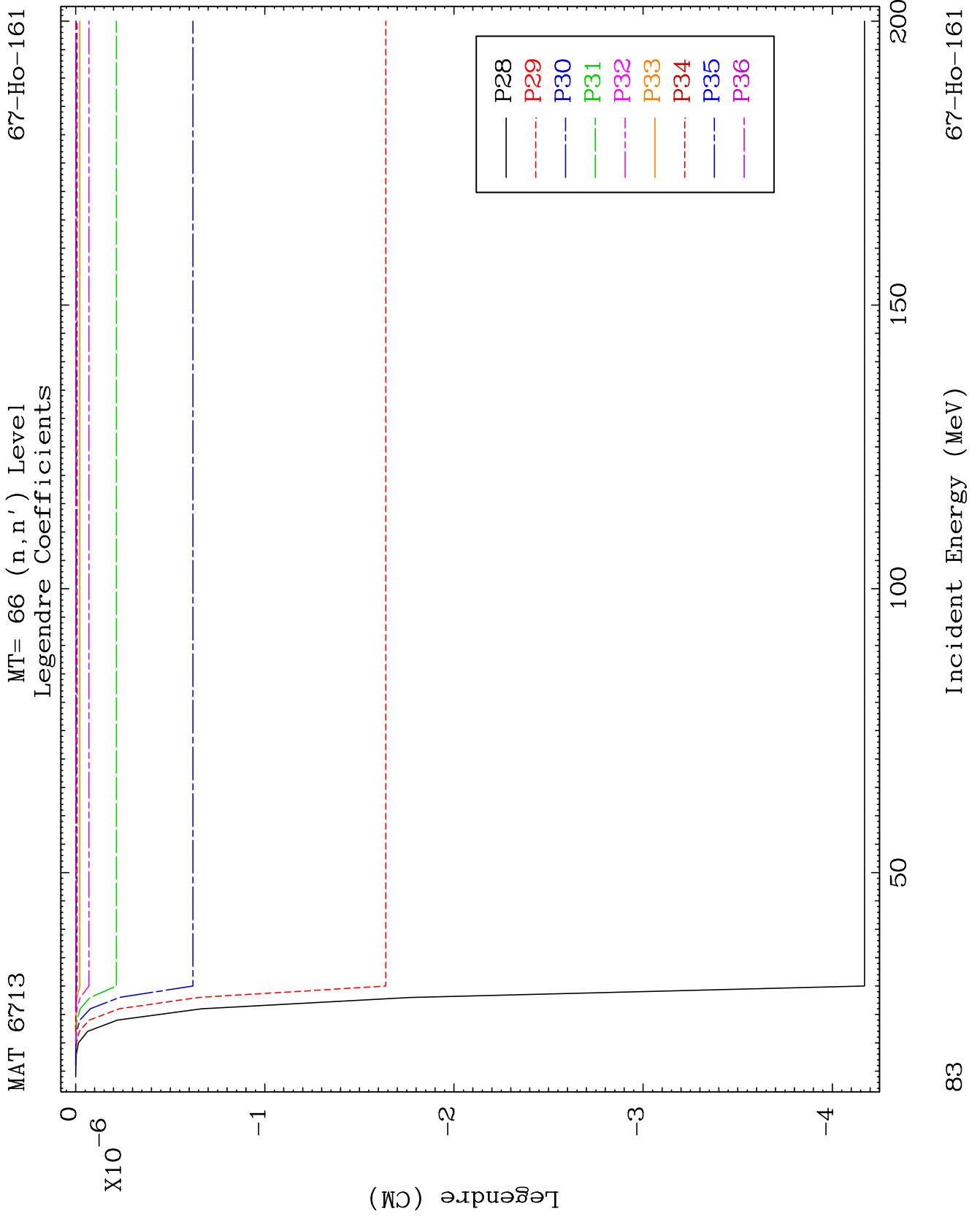


81

Incident Energy (MeV)

67-Ho-161

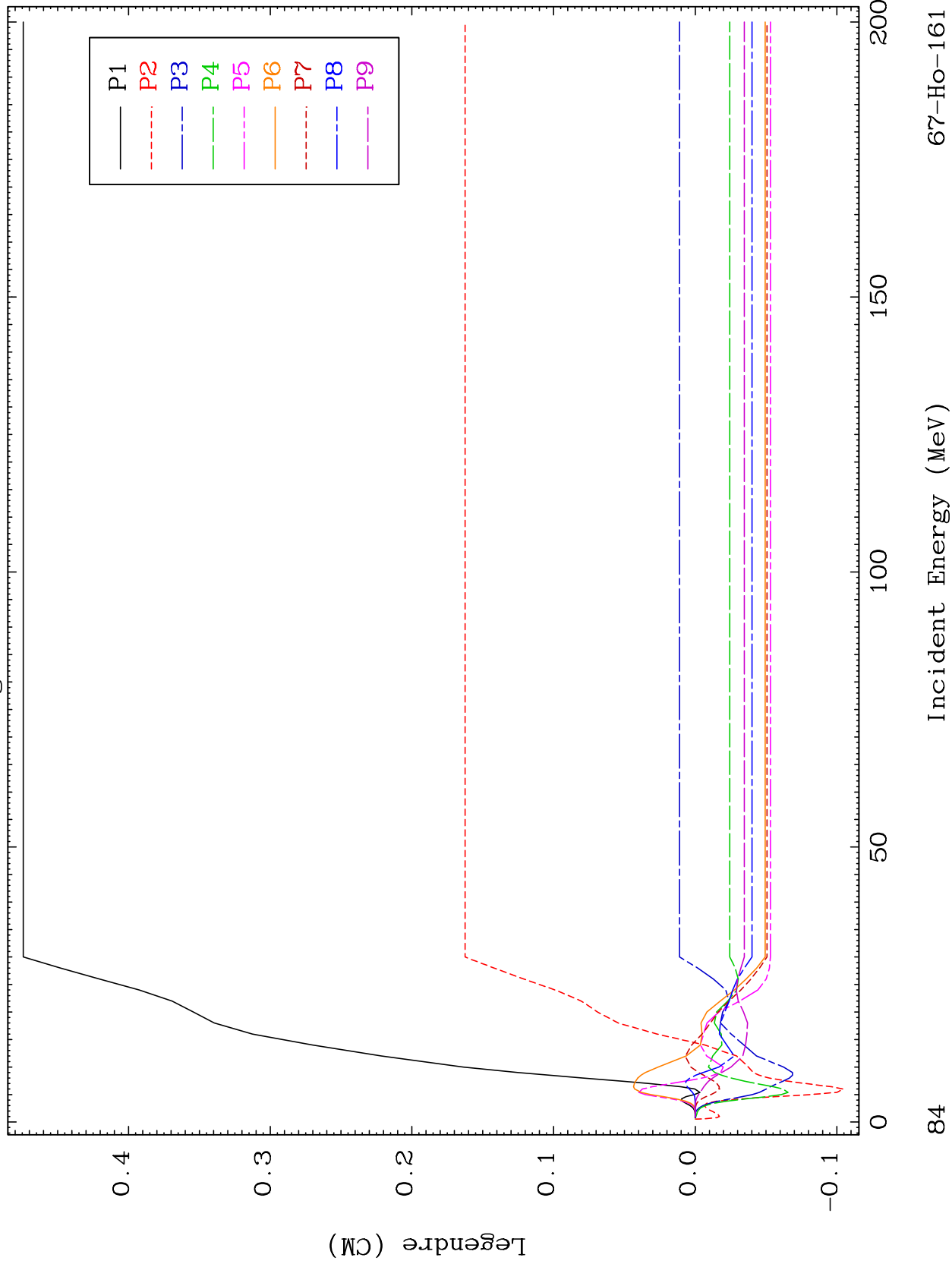




MAT 6713

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

67-Ho-161



67-Ho-161

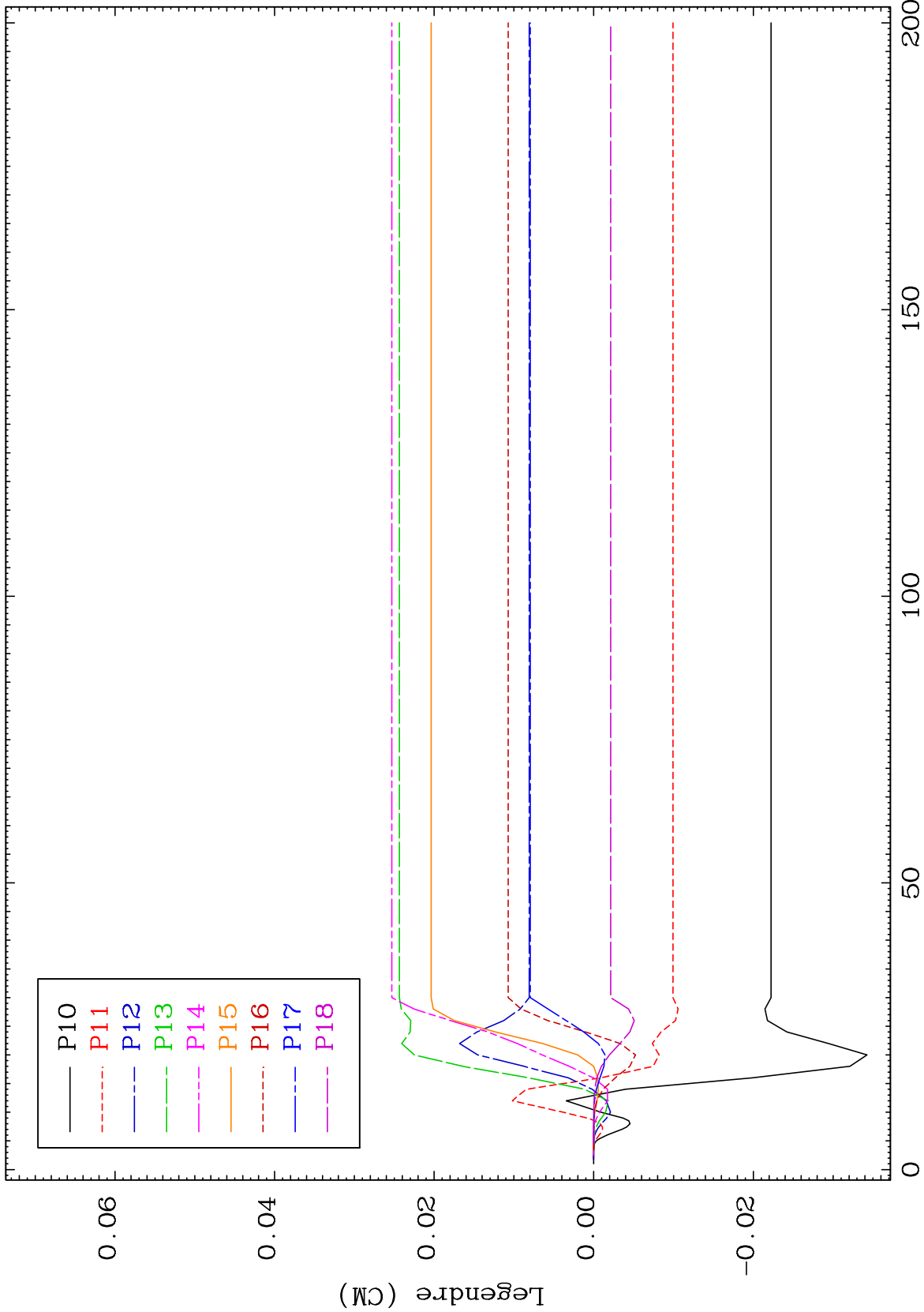
Incident Energy (MeV)

84

MAT 6713

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

67-Ho-161



85

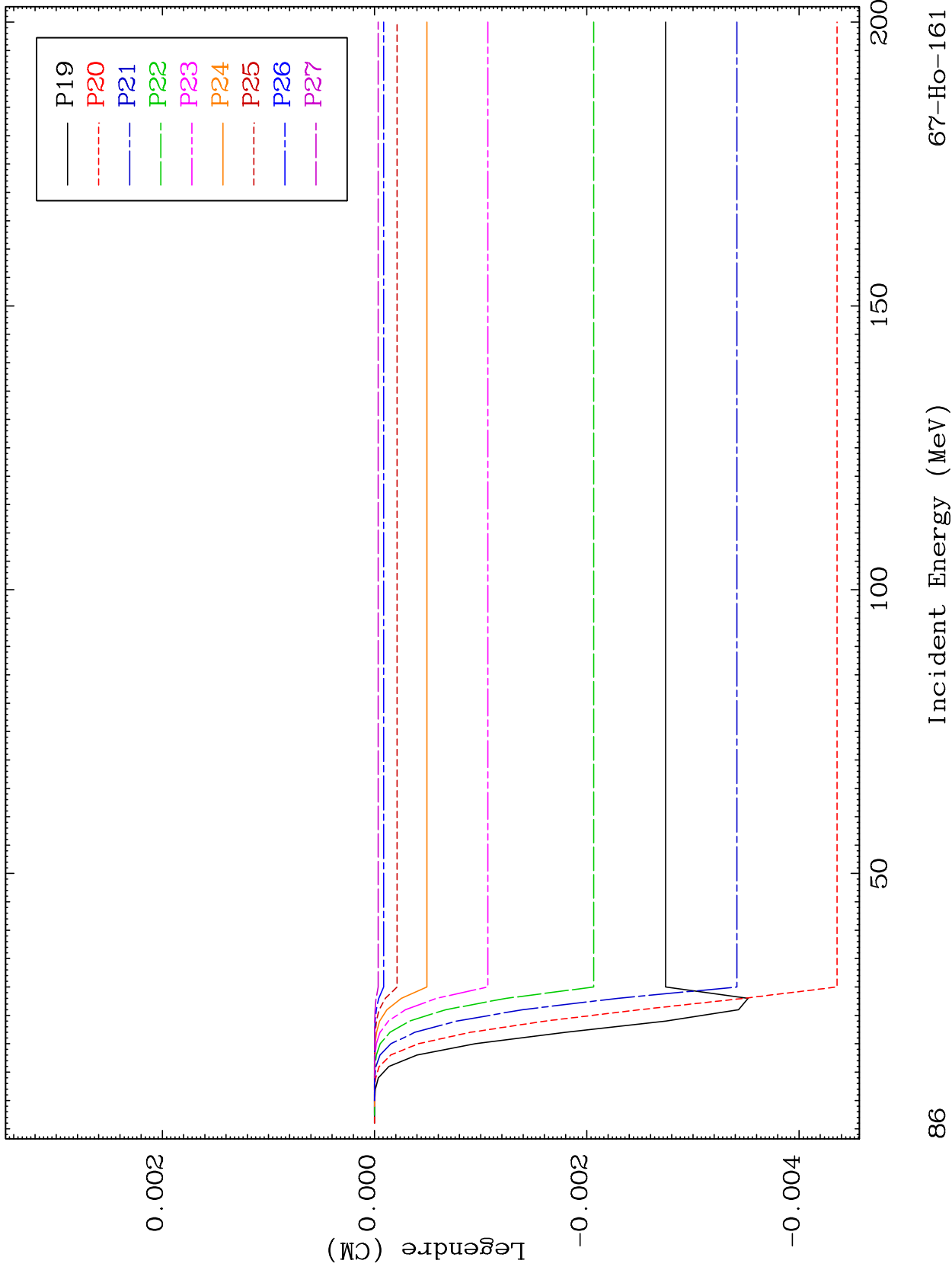
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

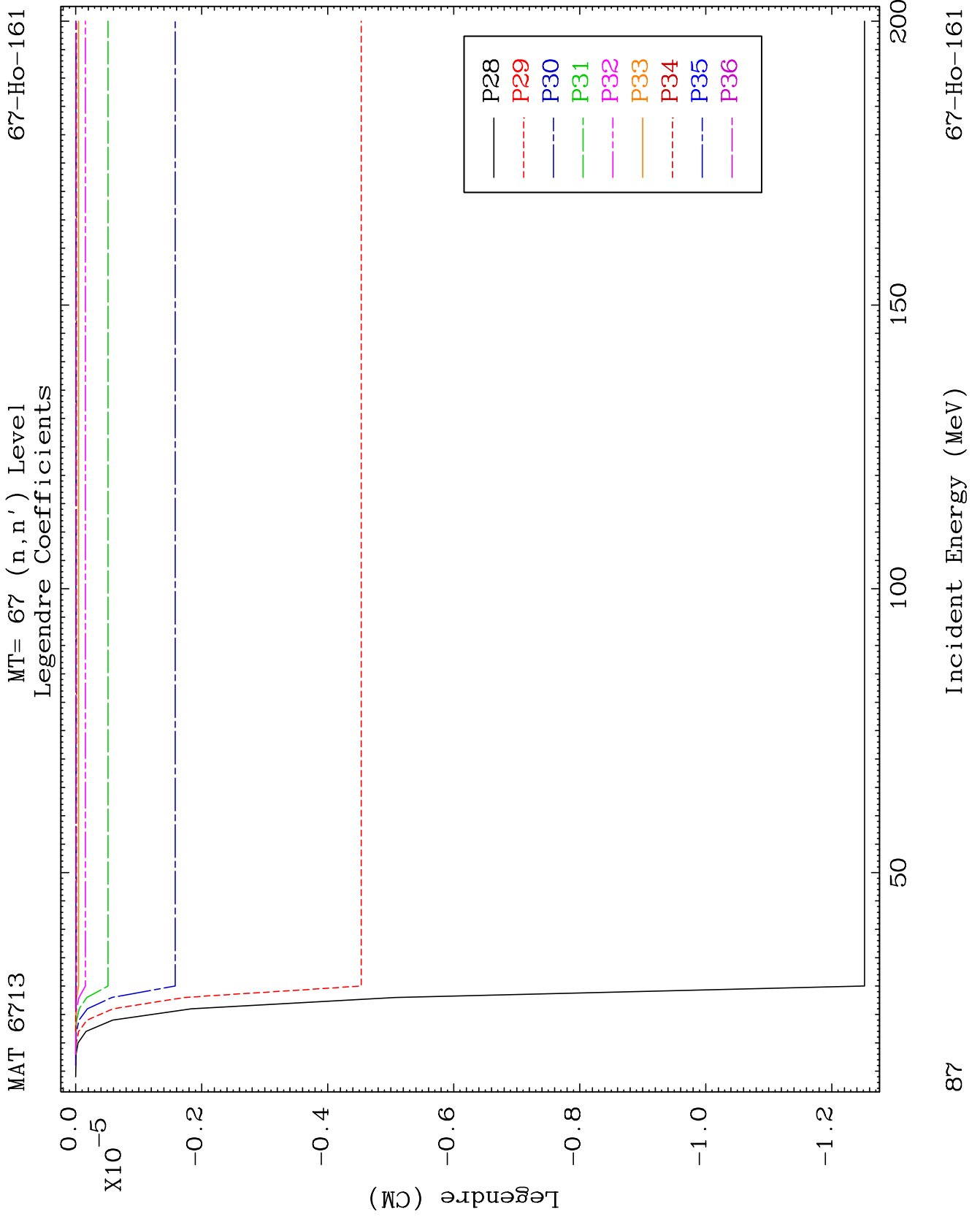
67-Ho-161



86

Incident Energy (MeV)

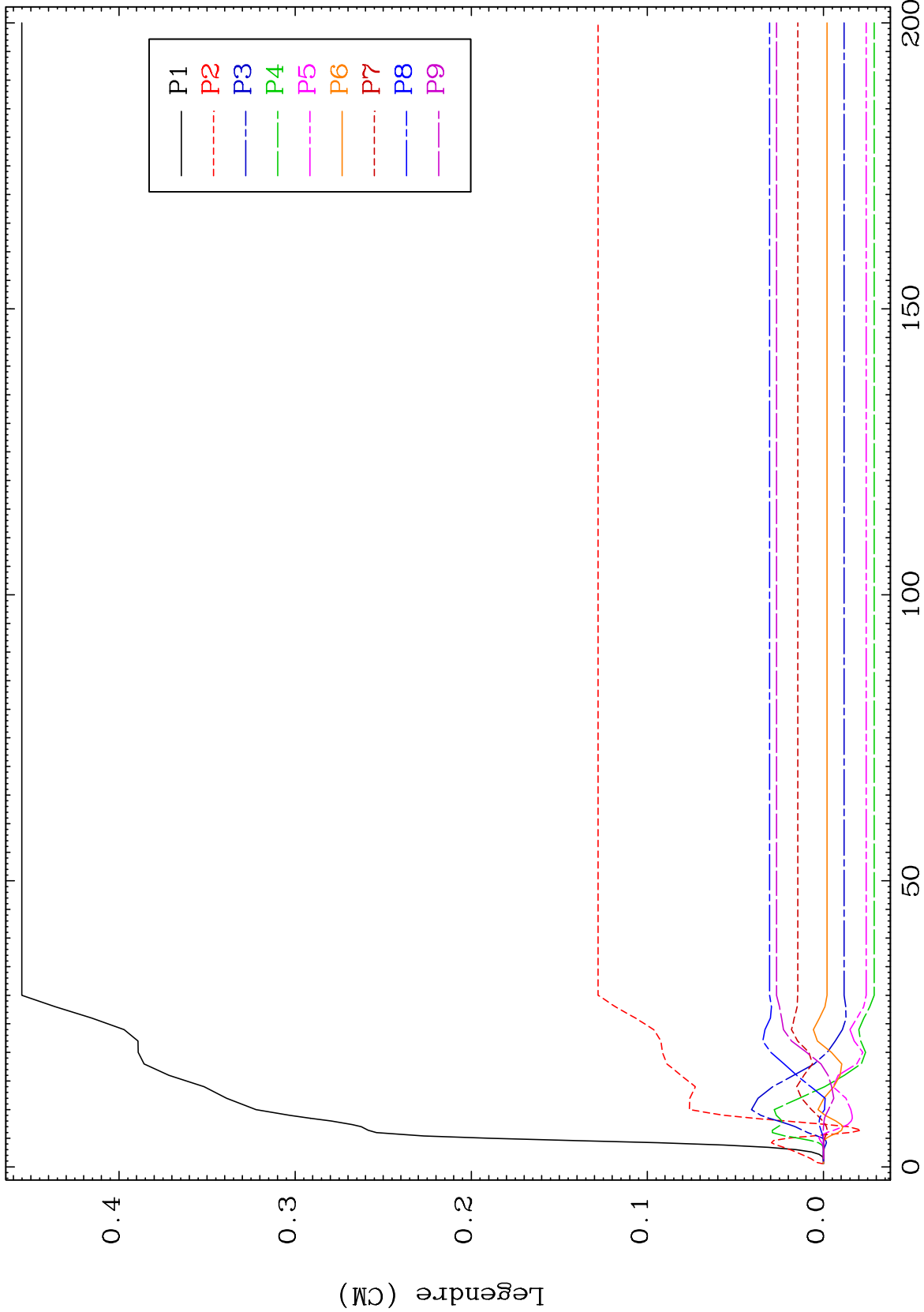
67-Ho-161



MAT 6713

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

67-Ho-161



88

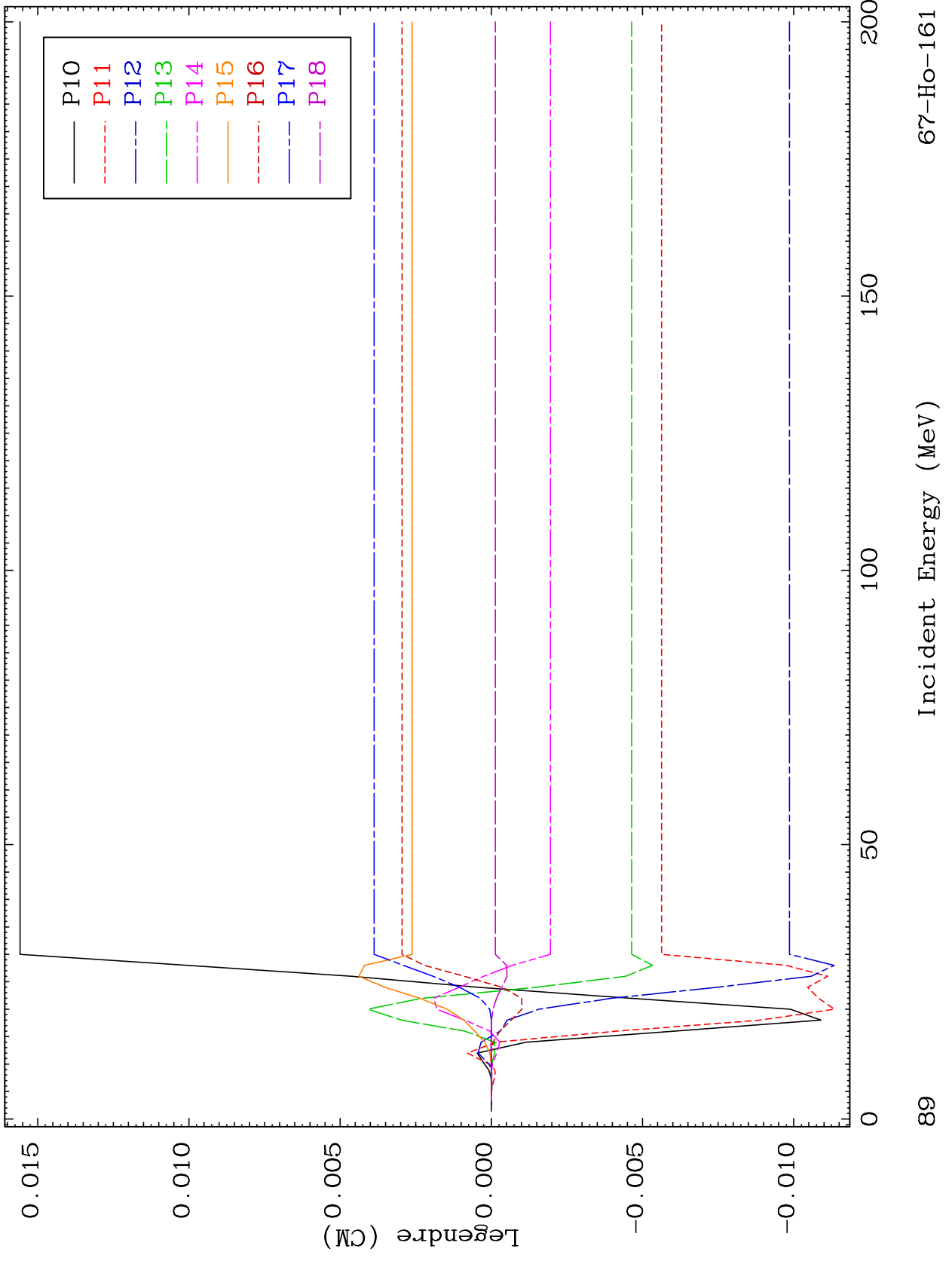
Incident Energy (MeV)

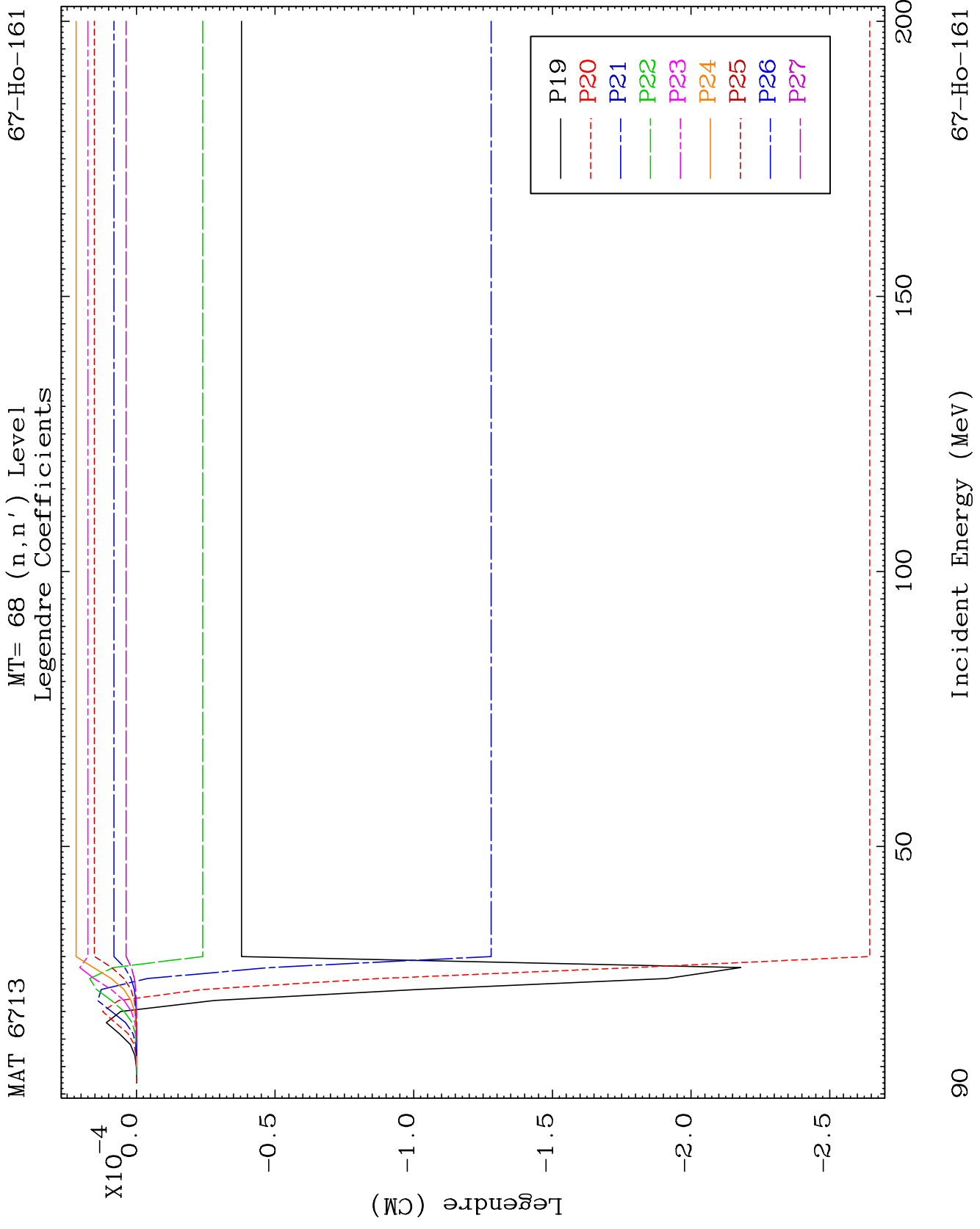
67-Ho-161

MAT 6713

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

67-Ho-161

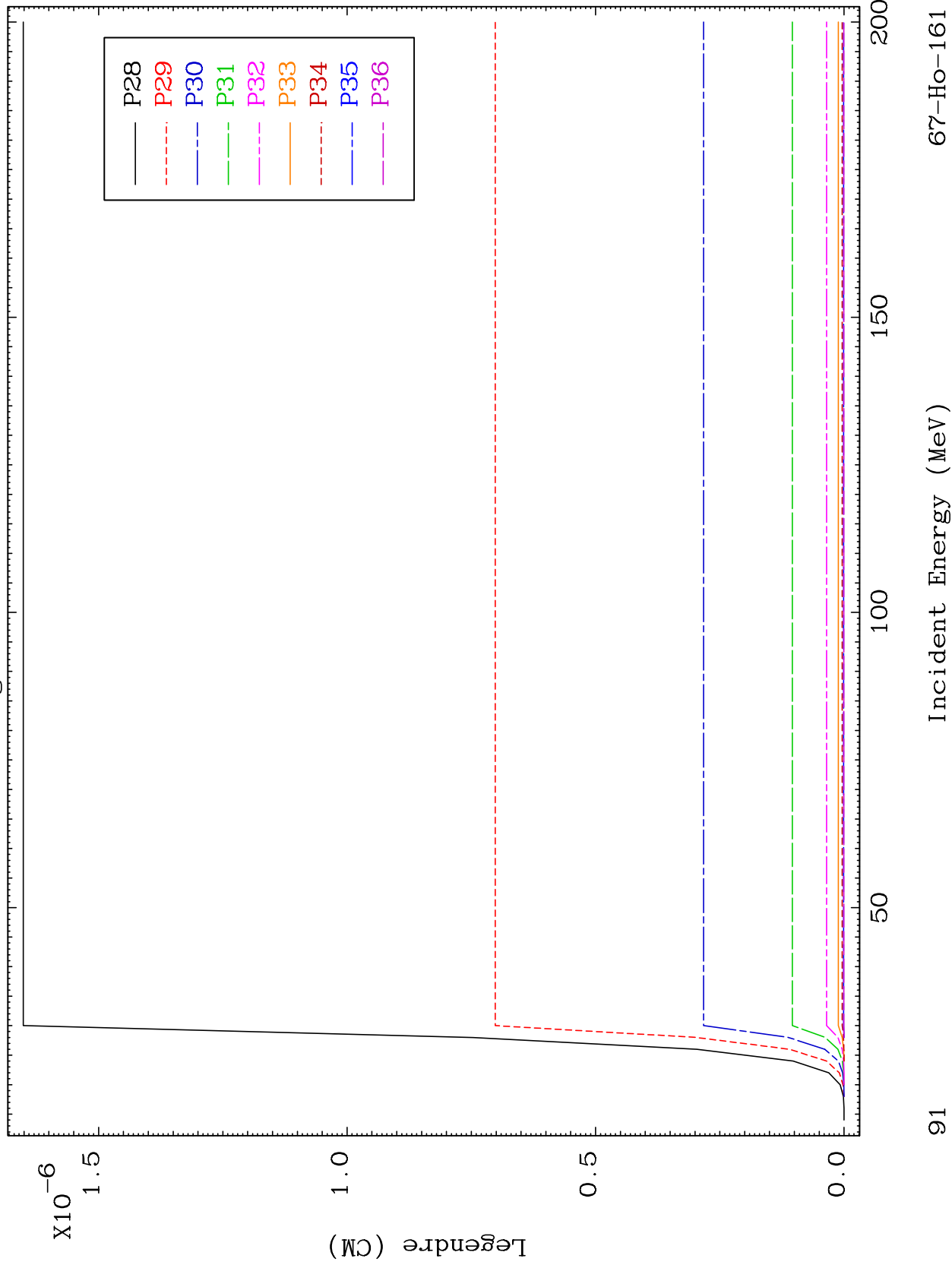




MAT 6713

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

67-Ho-161



91

Incident Energy (MeV)

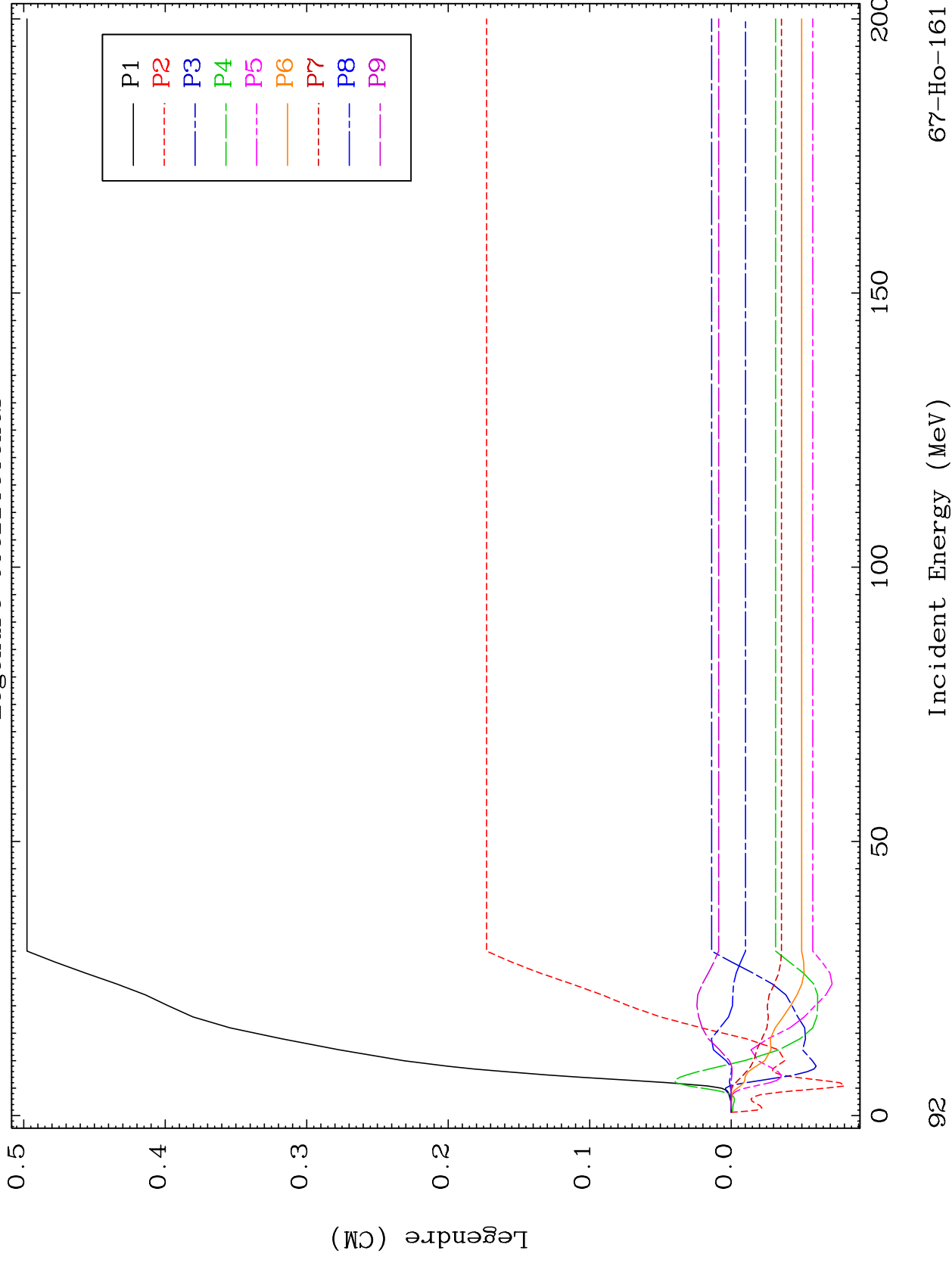
67-Ho-161

MAT 6713

MT= 69 (n,n') Level

67-Ho-161

Legendre Coefficients



92

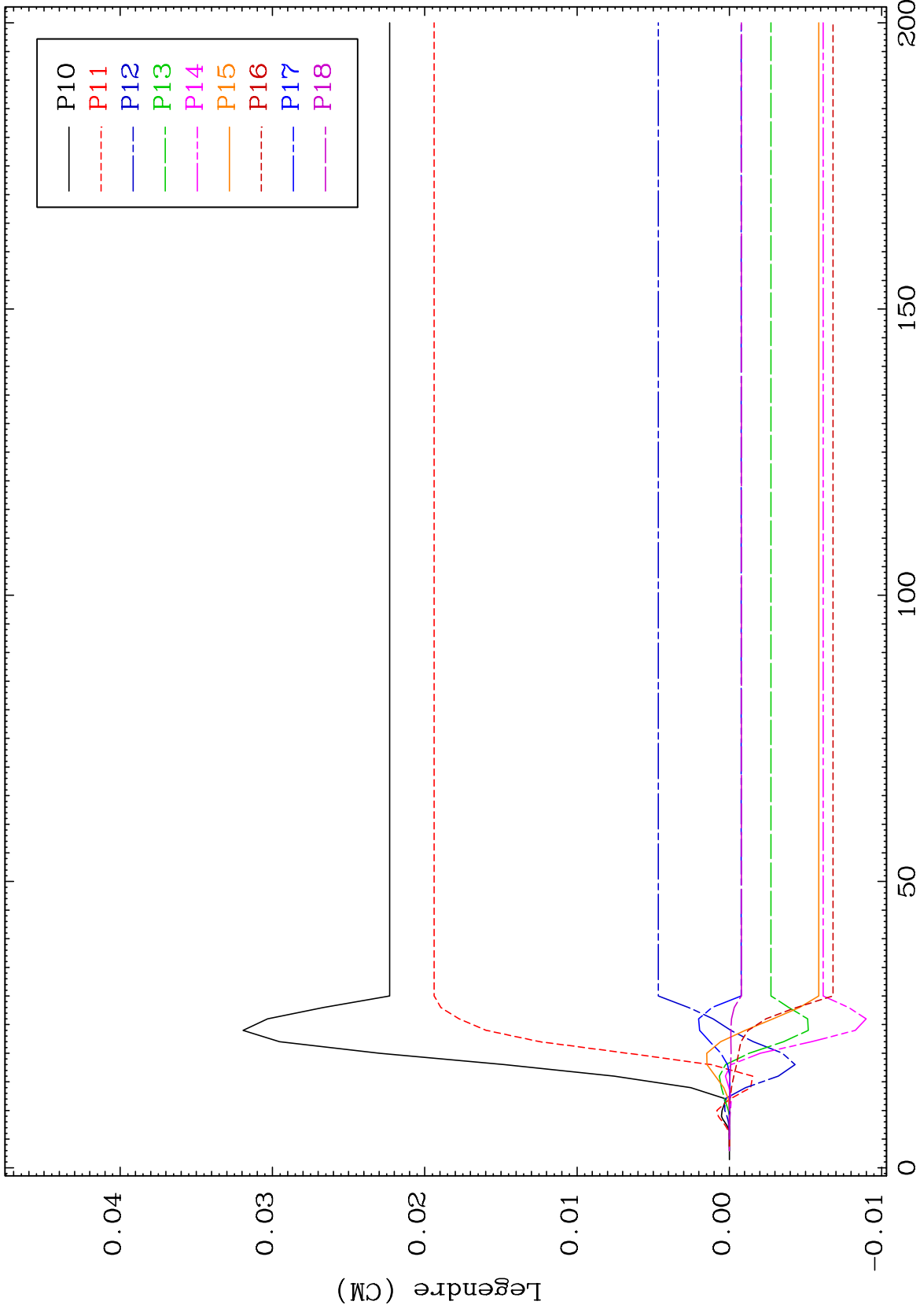
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

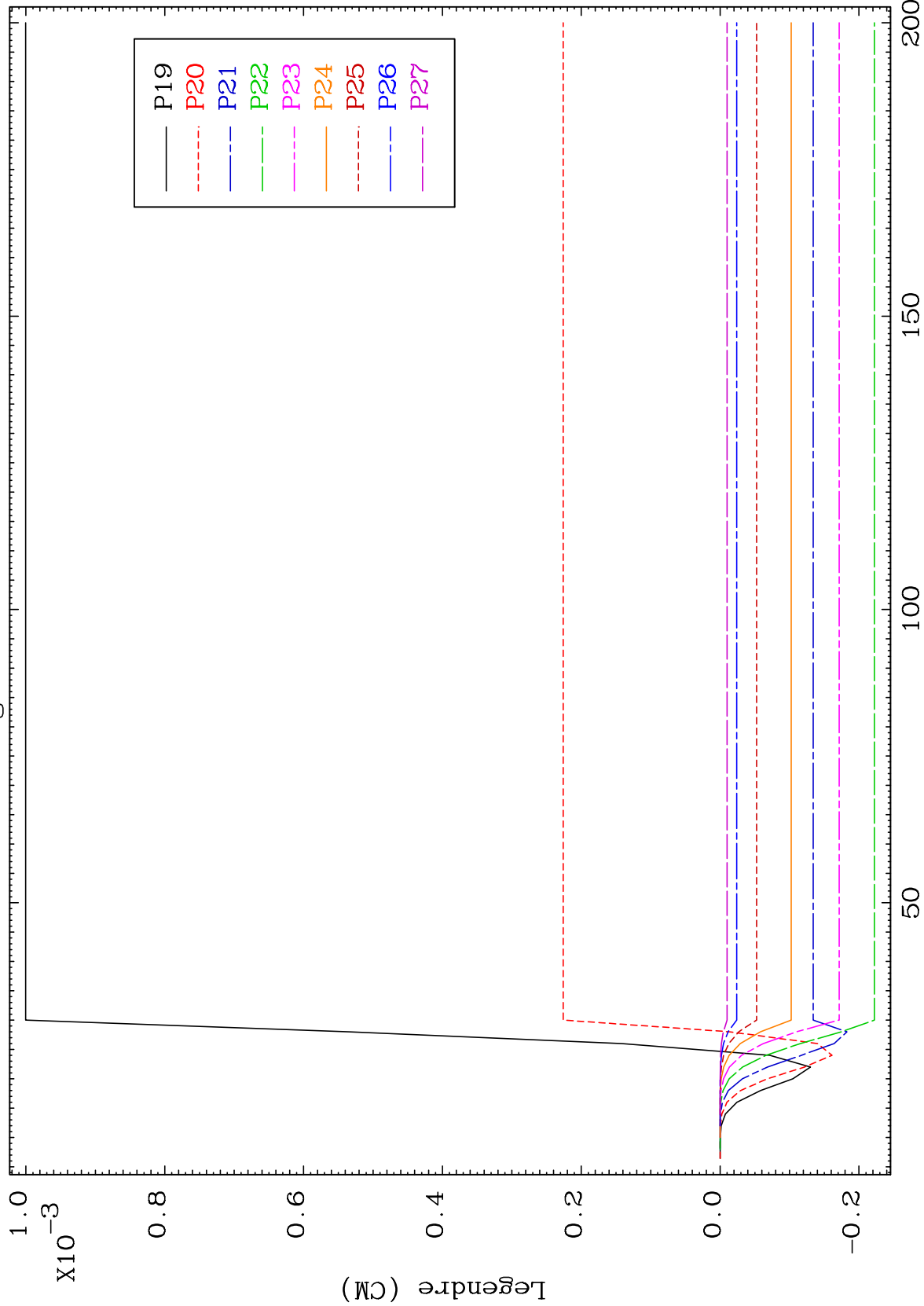
67-Ho-161



93

Incident Energy (MeV)

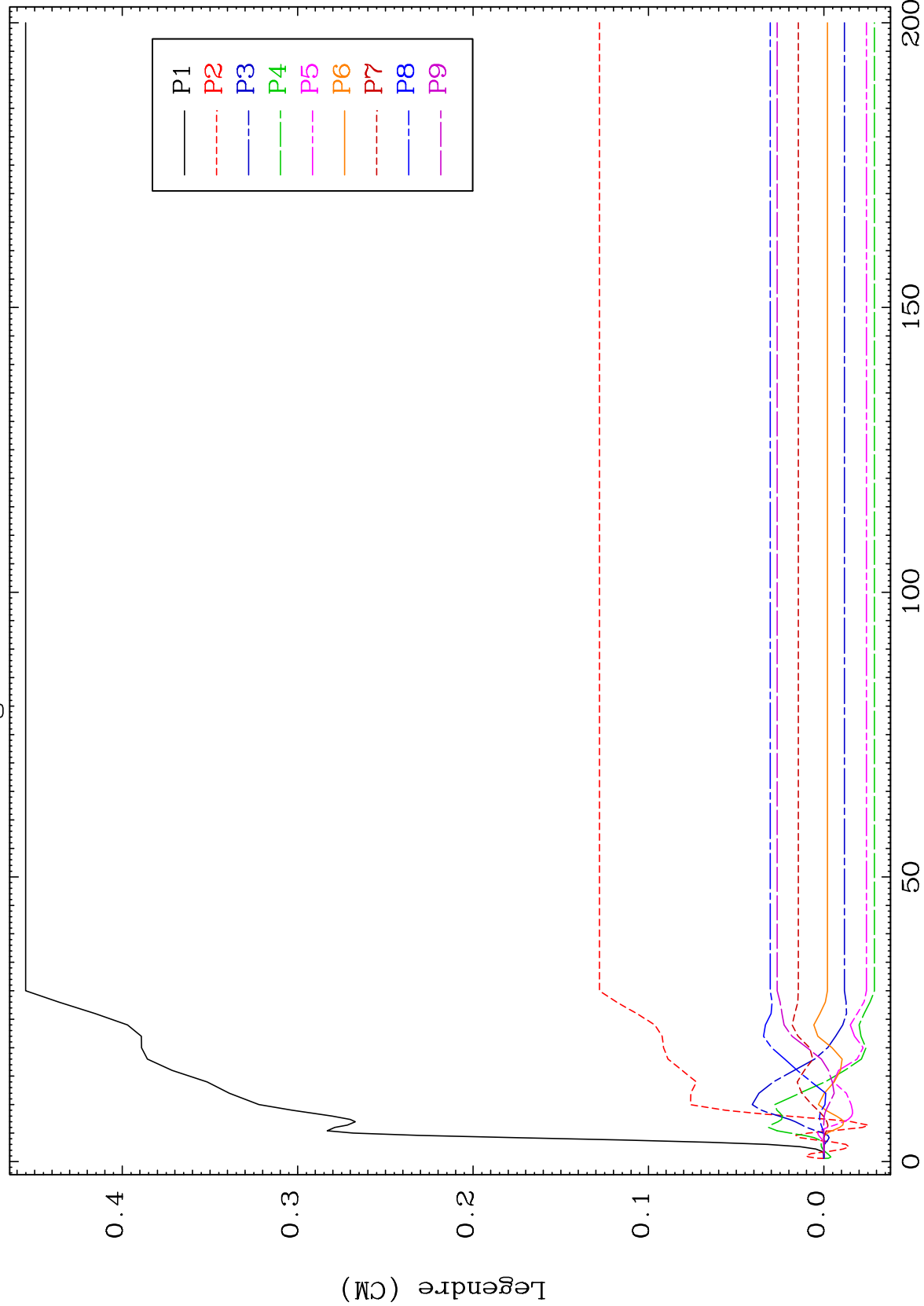
67-Ho-161



MAT 6713

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

67-Ho-161



96

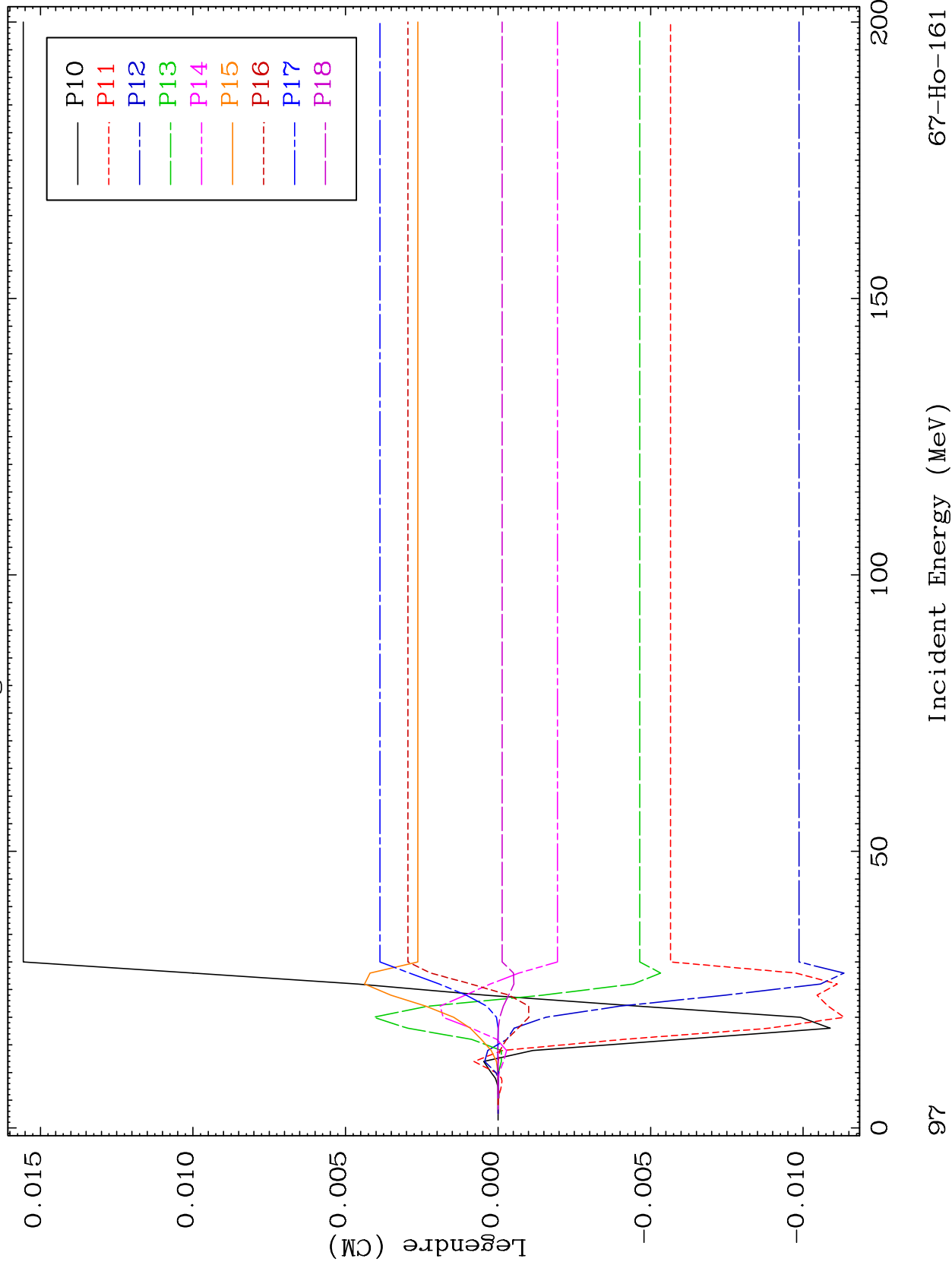
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

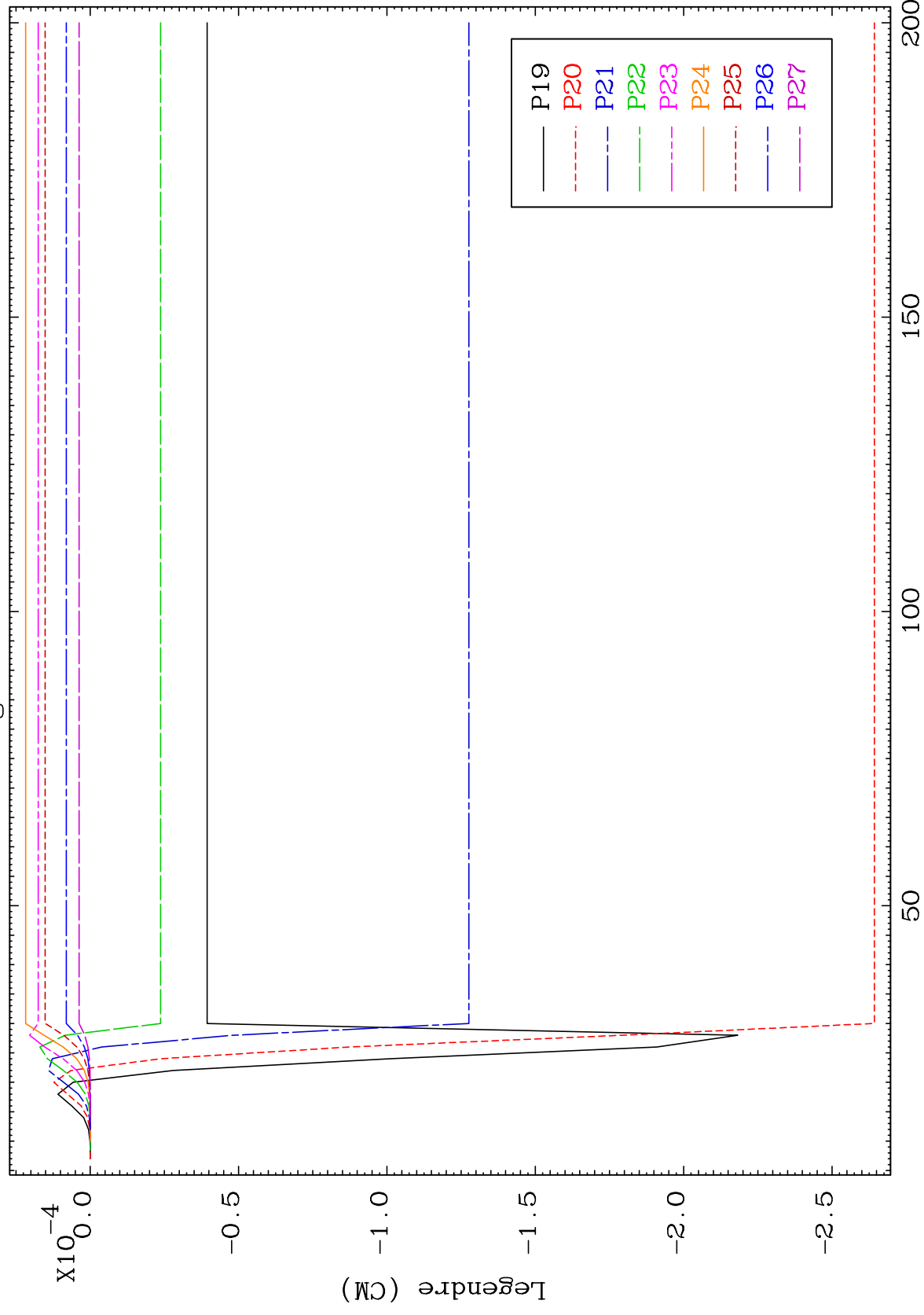
67-Ho-161



MAT 6713

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

67-Ho-161



98

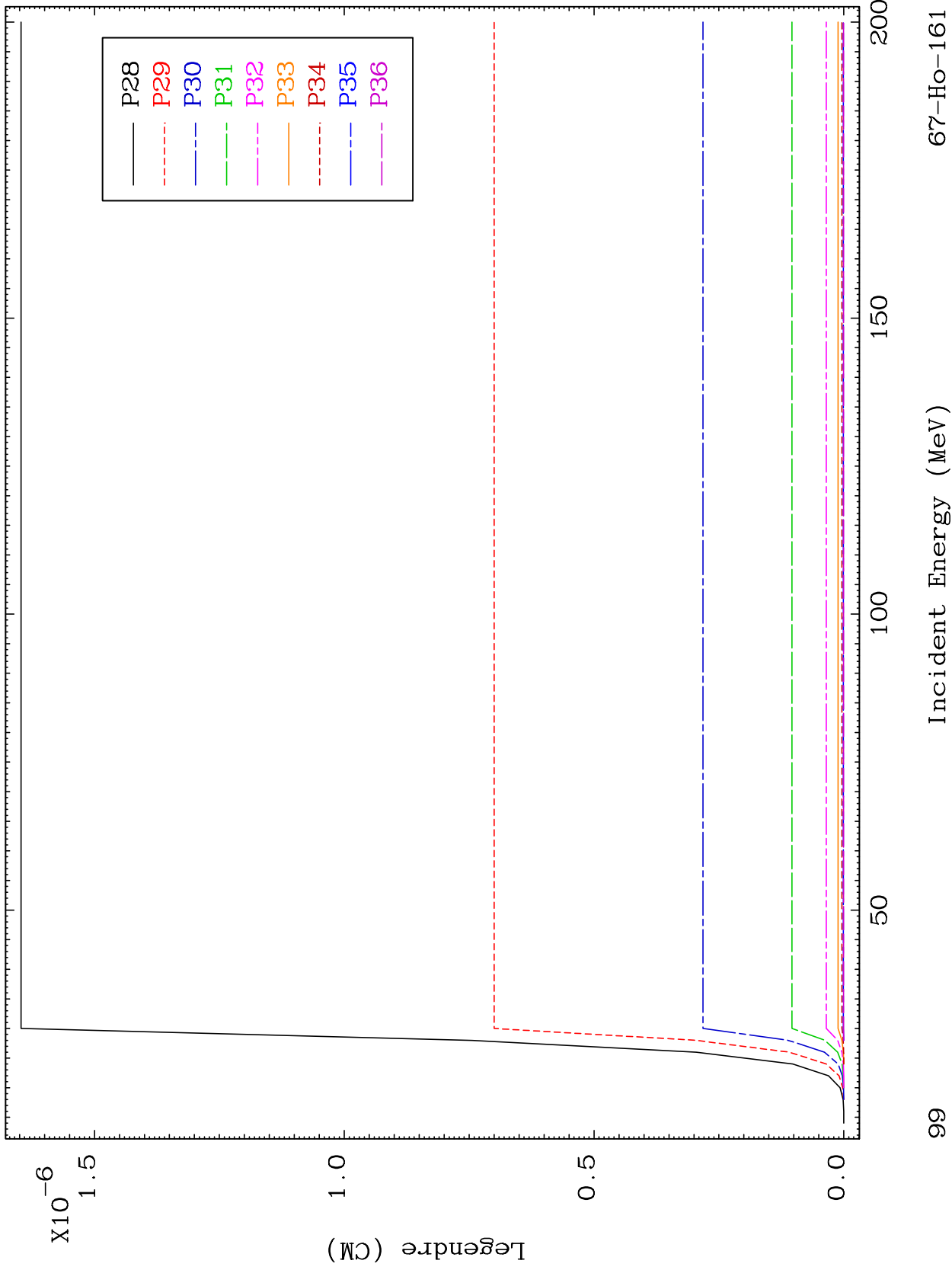
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

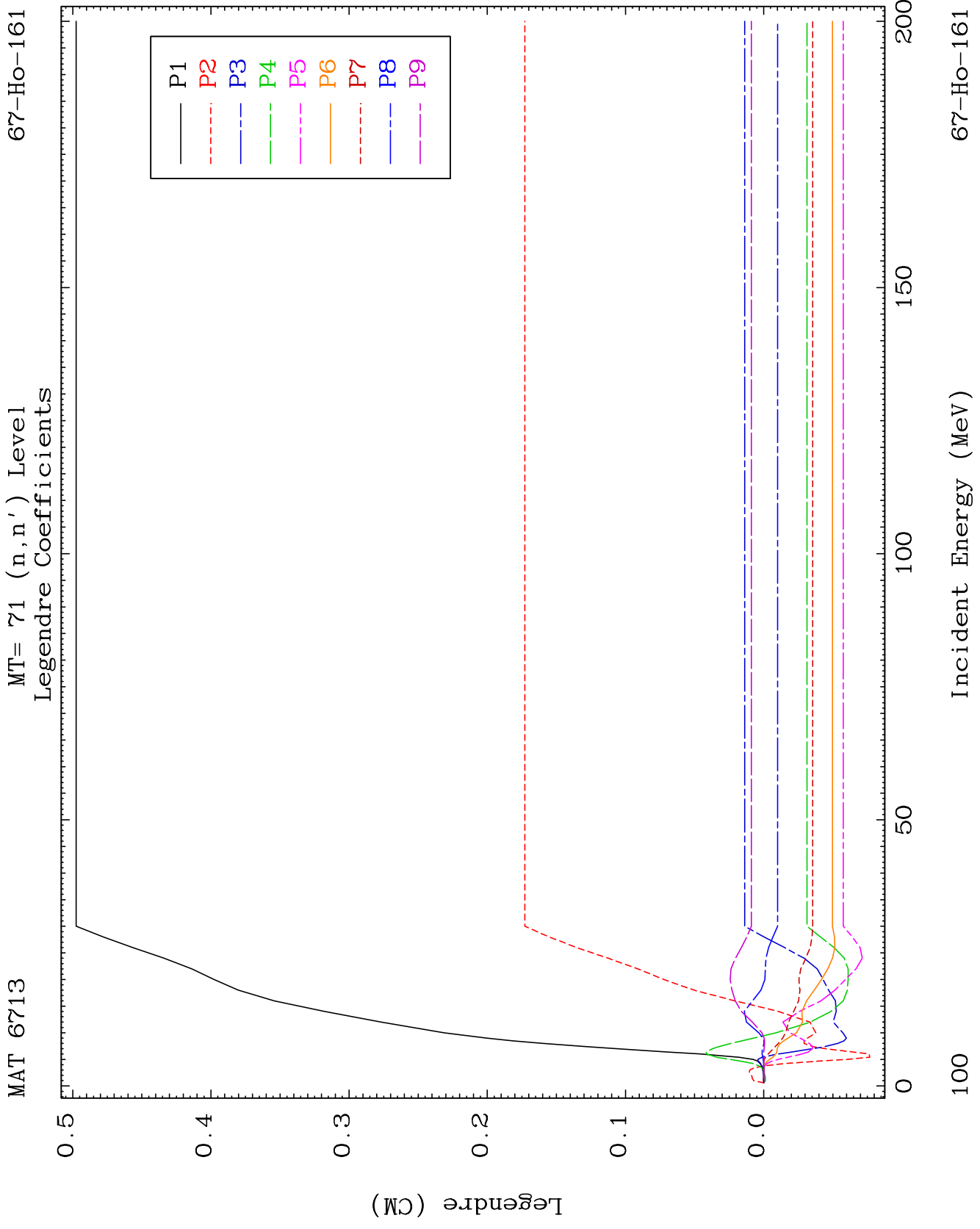
67-Ho-161



99

Incident Energy (MeV)

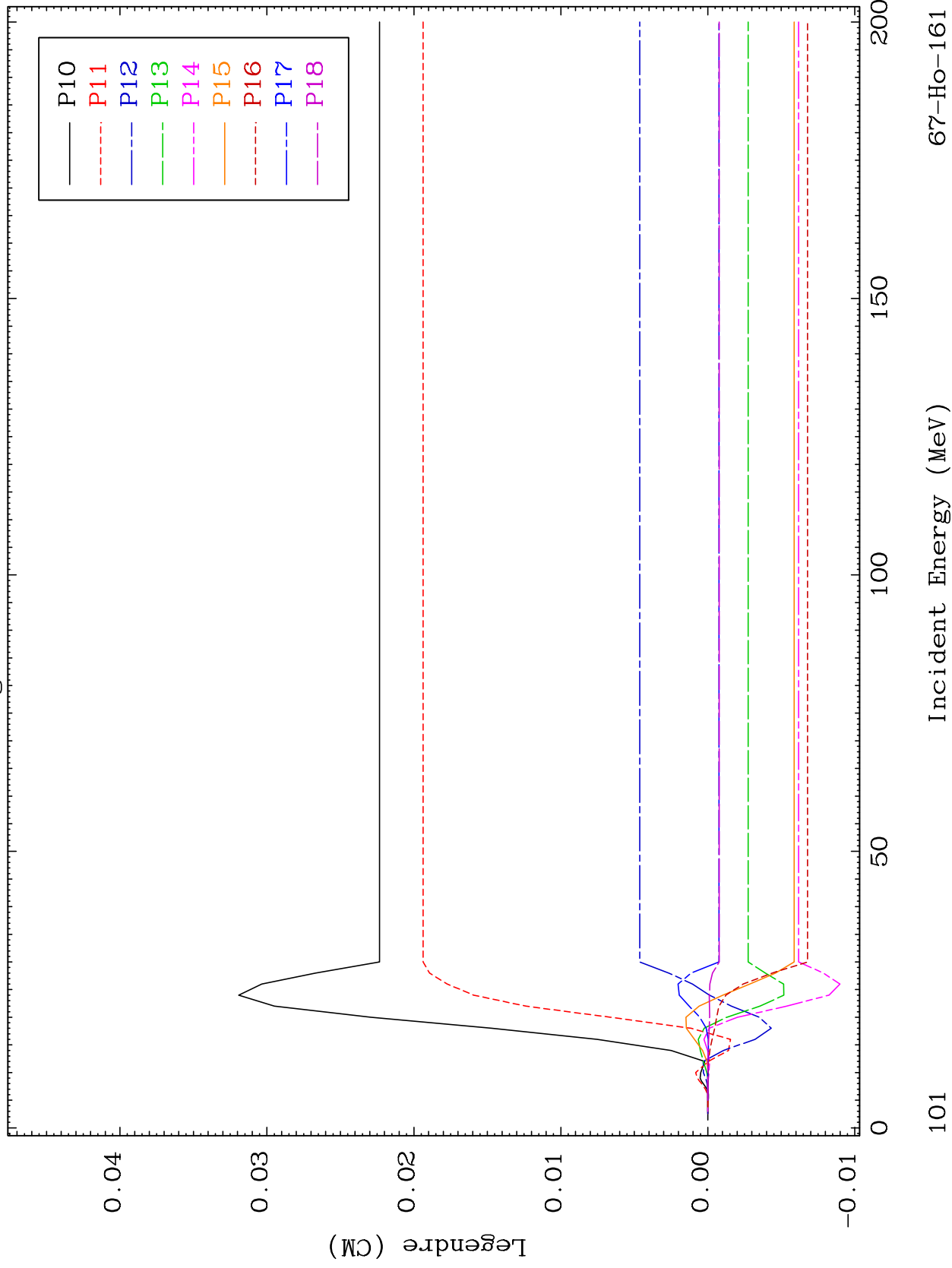
67-Ho-161



MAT 6713

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

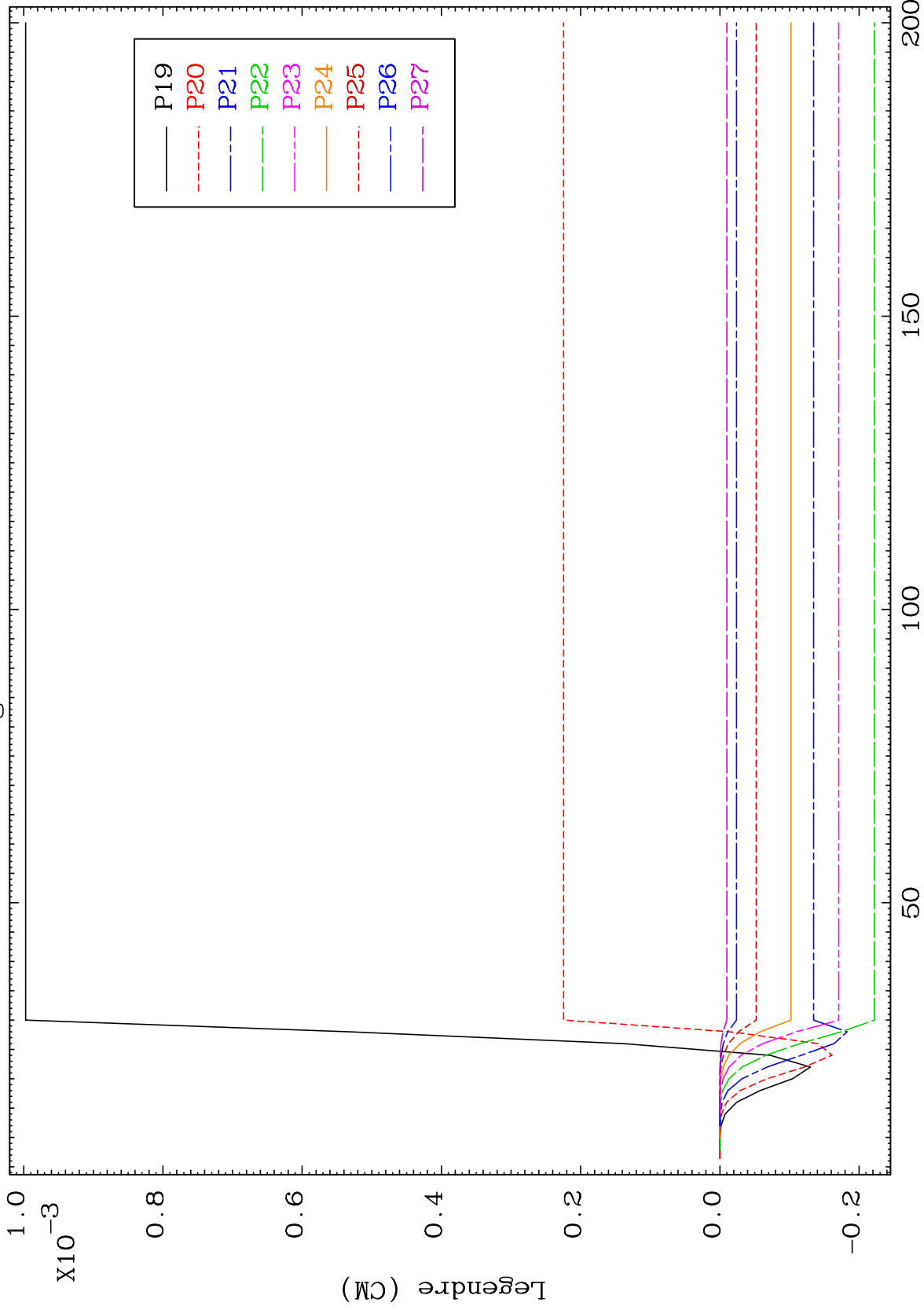
67-Ho-161

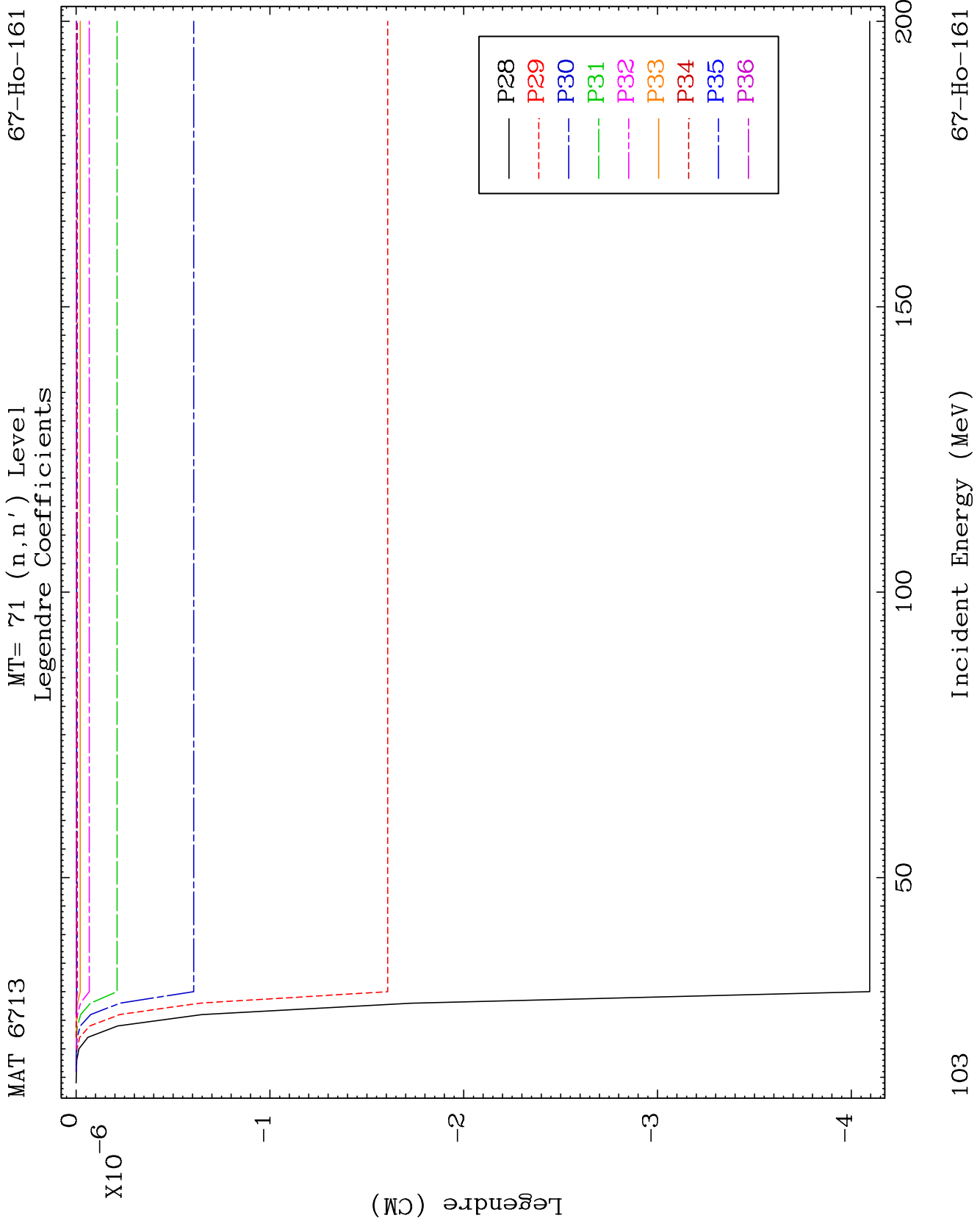


67-Ho-161

Incident Energy (MeV)

101



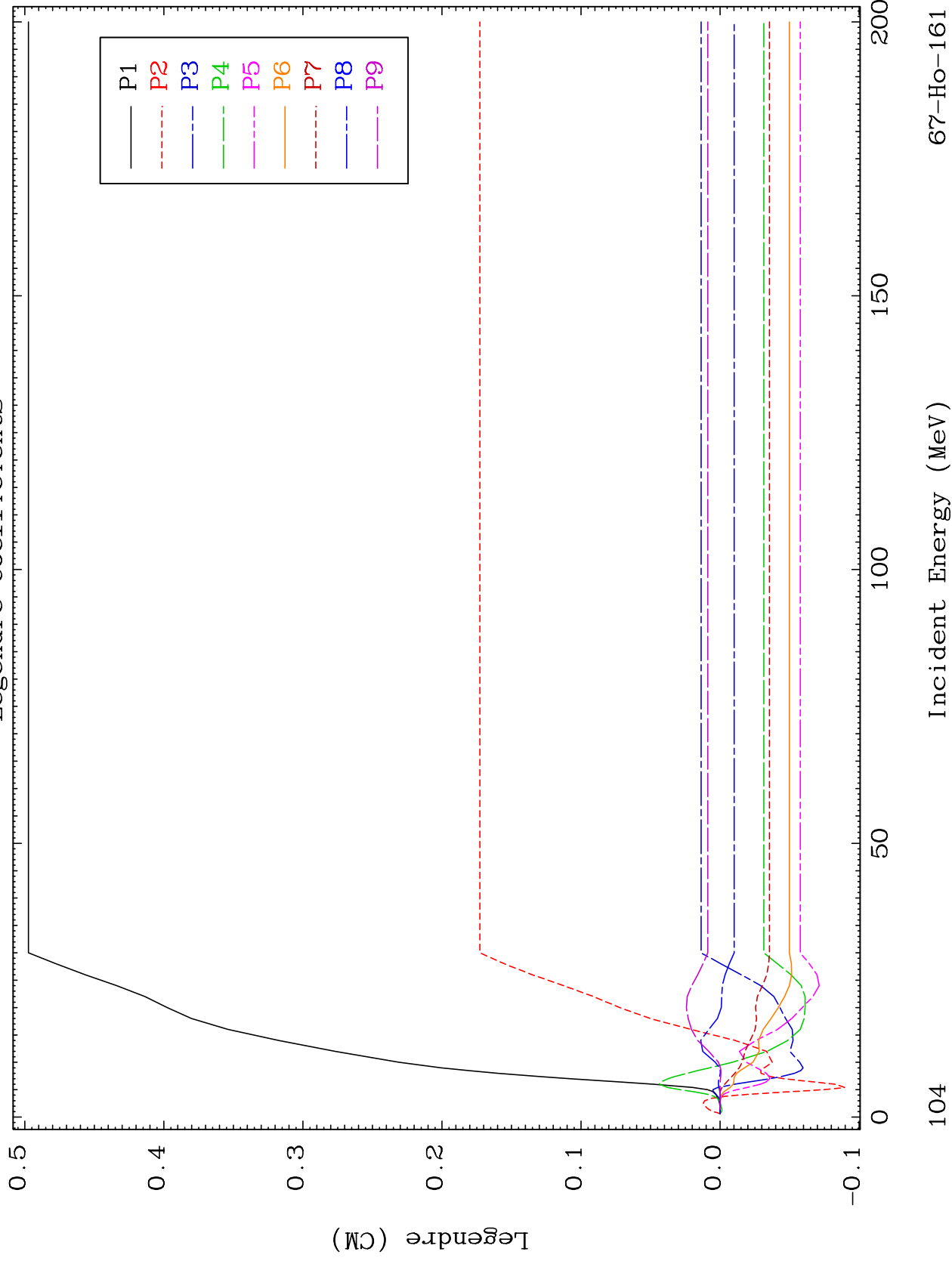


MAT 6713

MT= 72 (n,n') Level

67-Ho-161

Legendre Coefficients



104

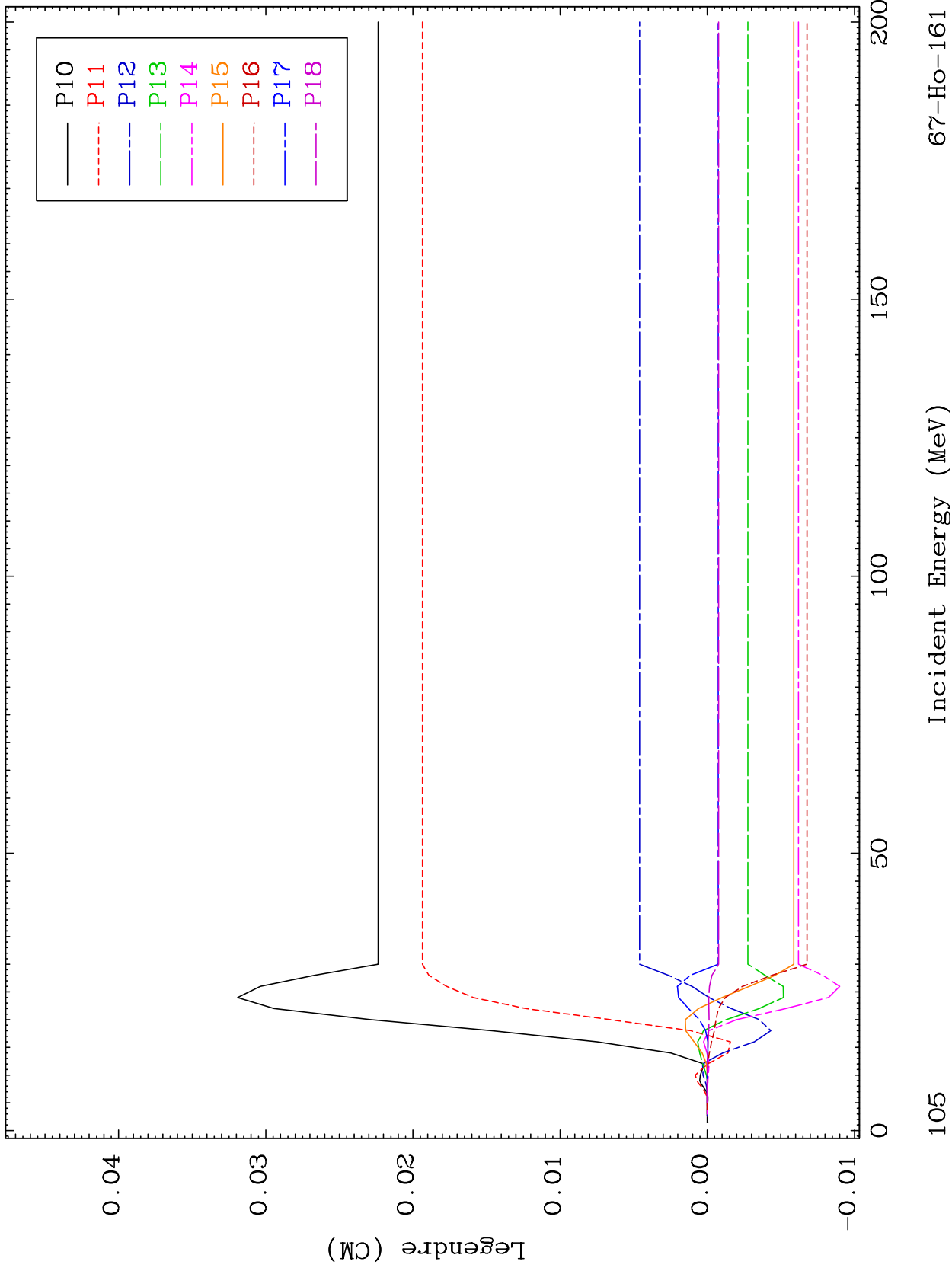
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



67-Ho-161

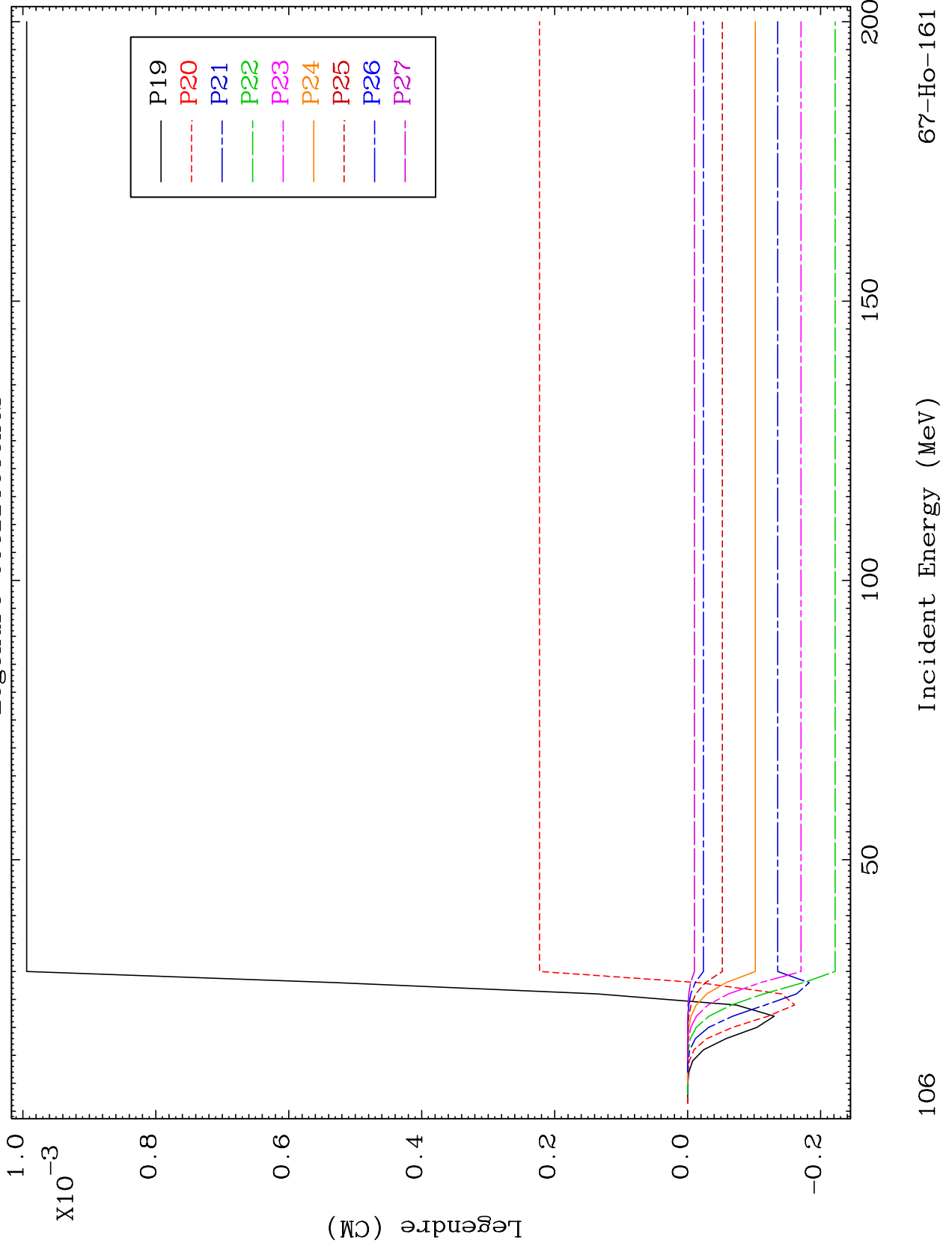
Incident Energy (MeV)

105

MAT 6713

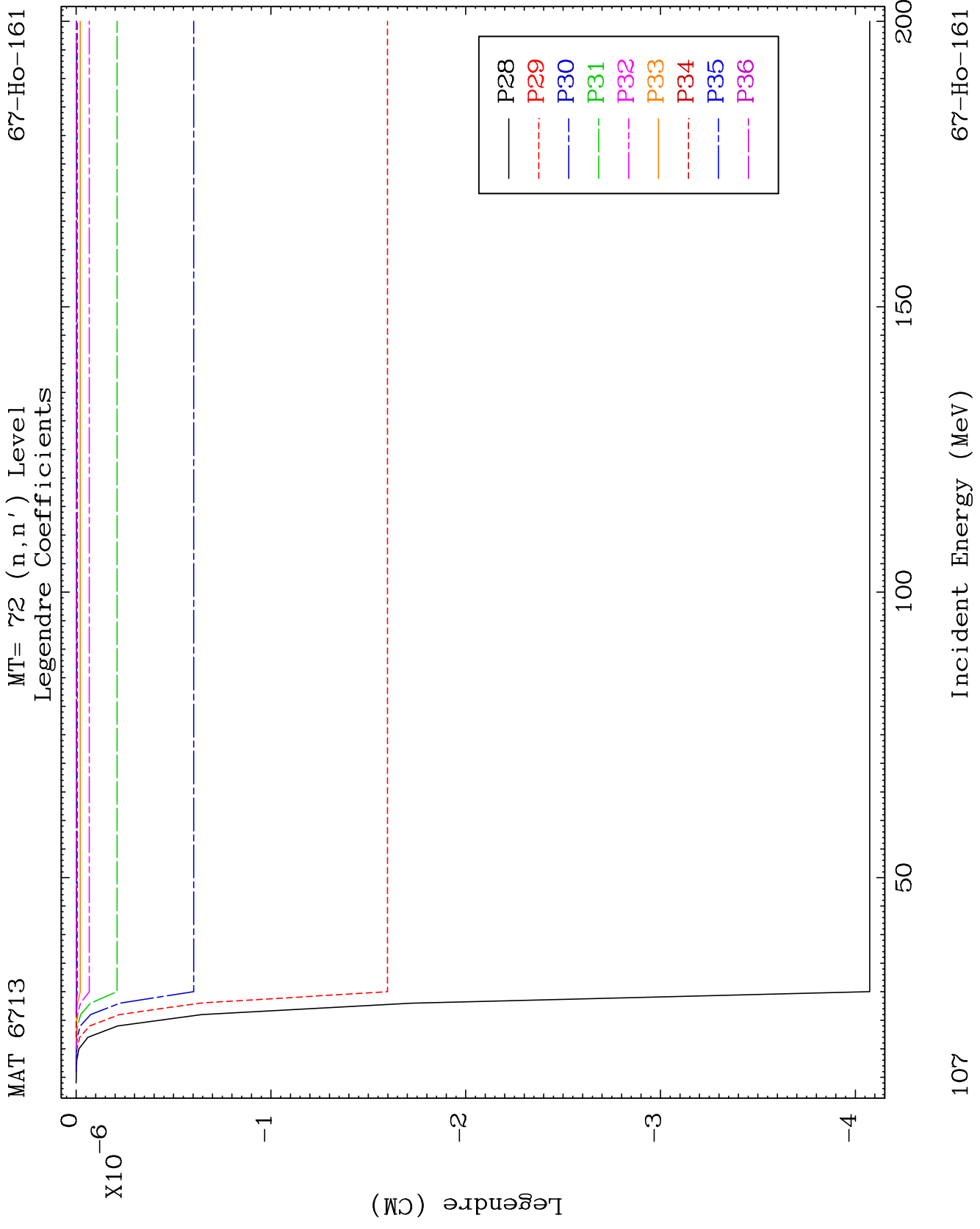
MT= 72 (n,n') Level
Legendre Coefficients

67-Ho-161



106

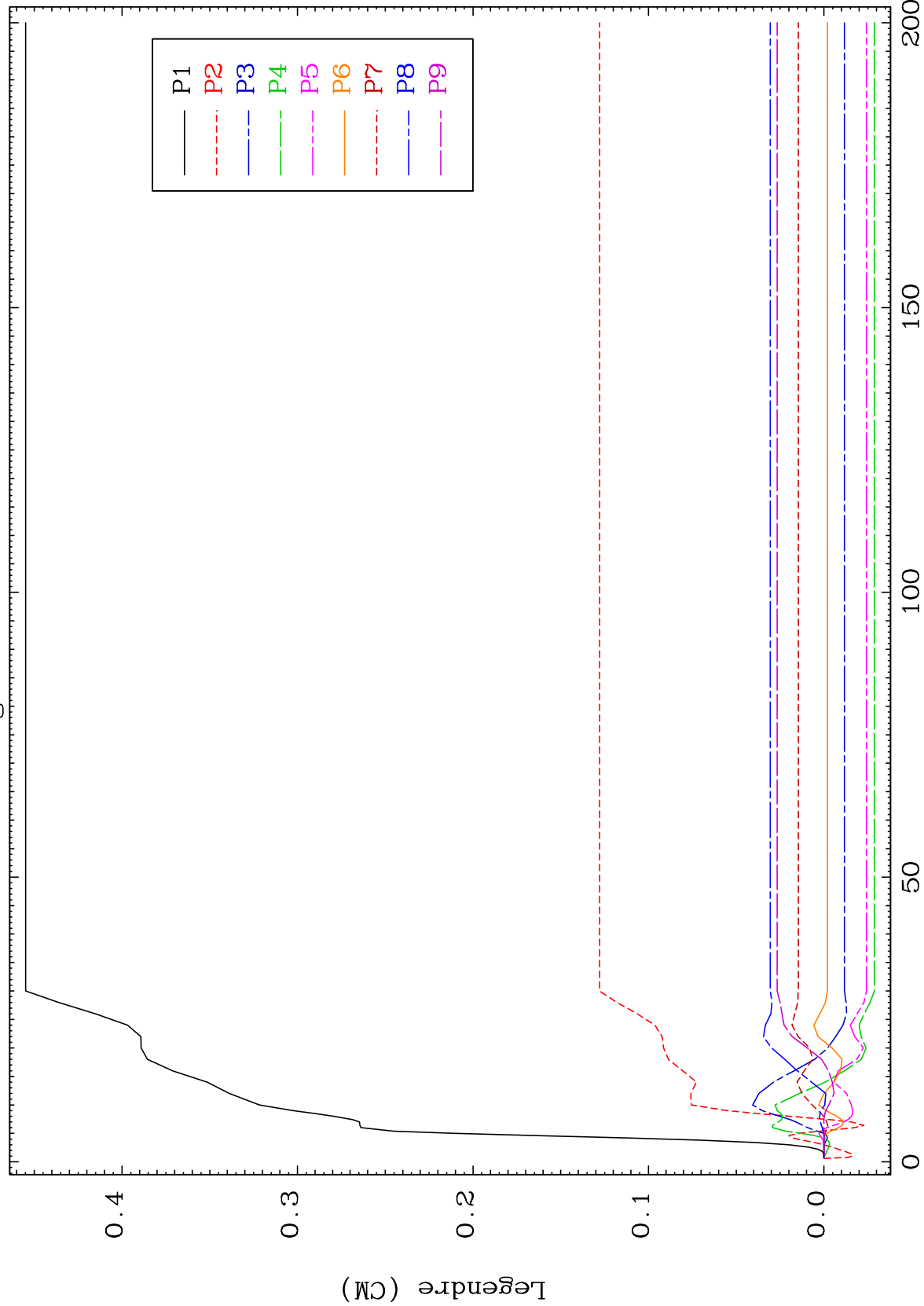
67-Ho-161



MAT 6713

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

67-Ho-161



67-Ho-161

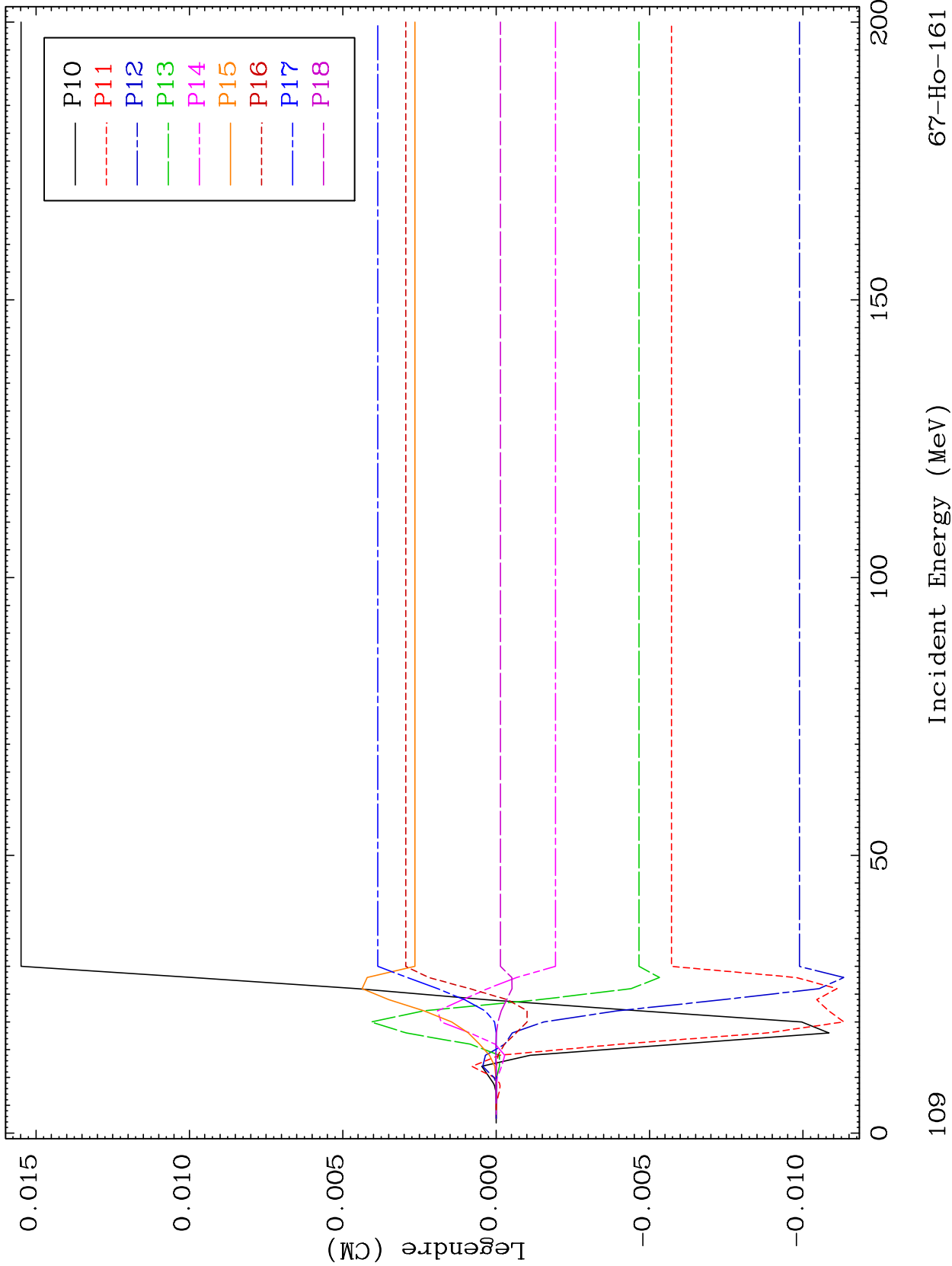
Incident Energy (MeV)

108

MAT 6713

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

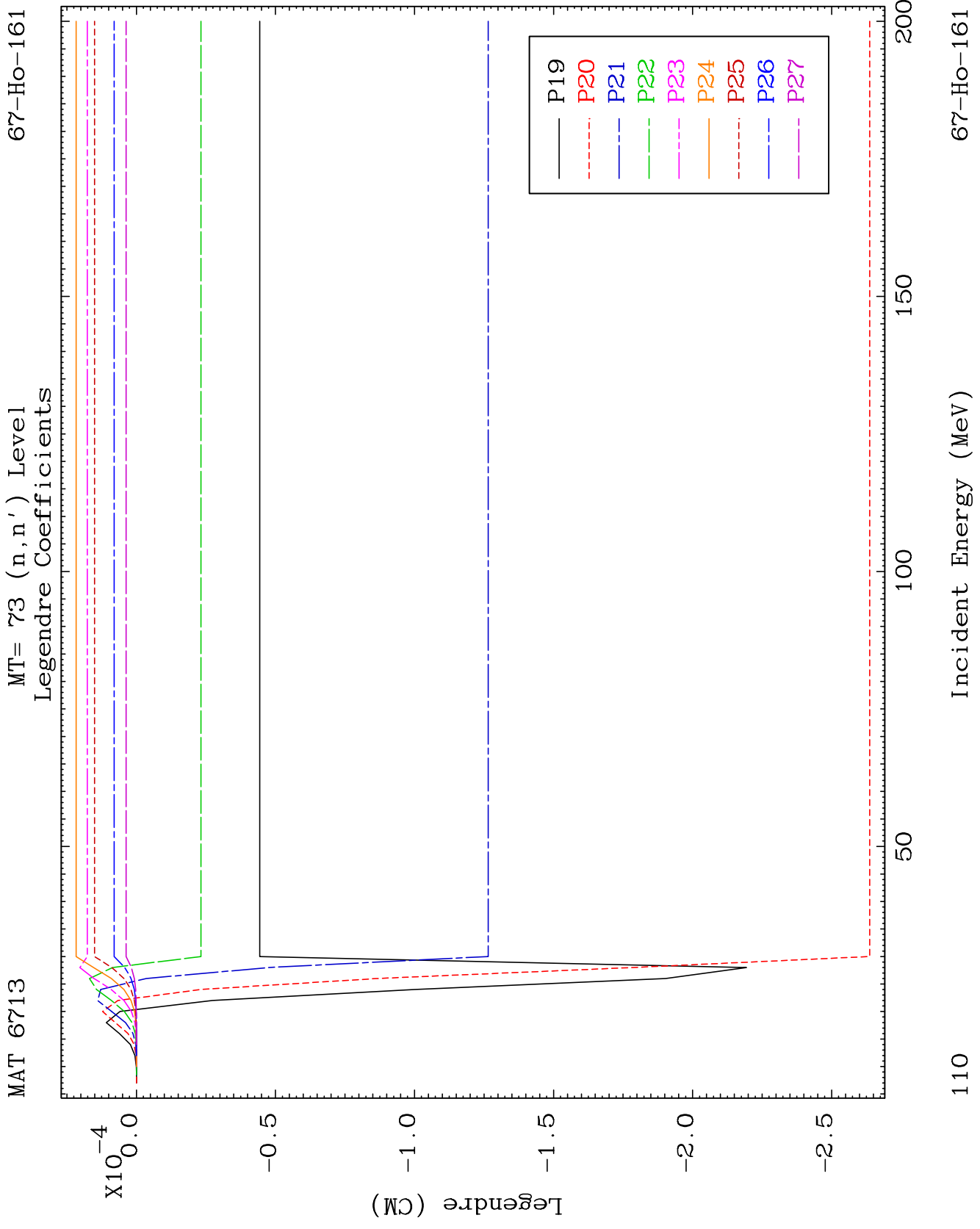
67-Ho-161



67-Ho-161

Incident Energy (MeV)

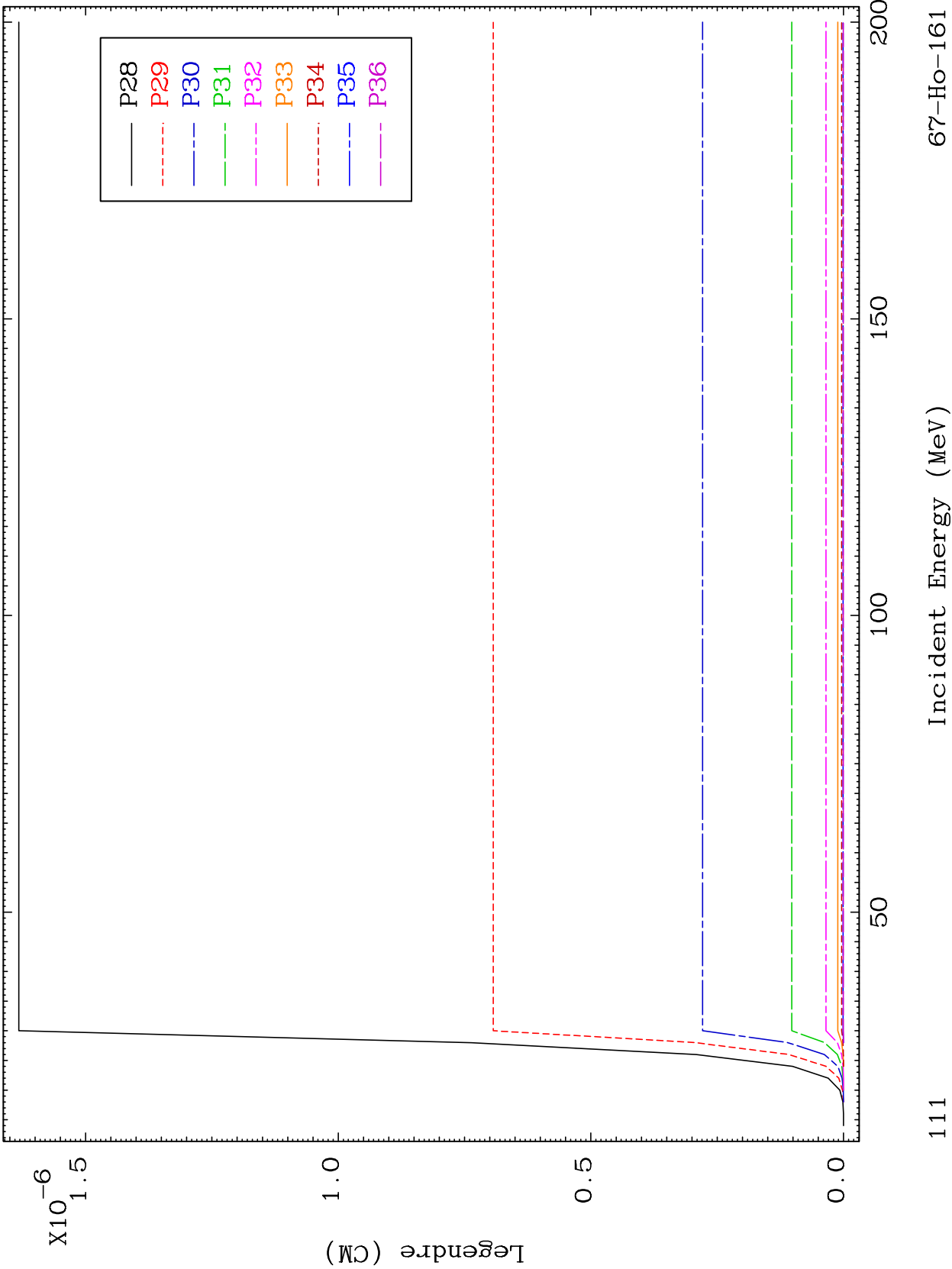
109



MAT 6713

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

67-Ho-161



111

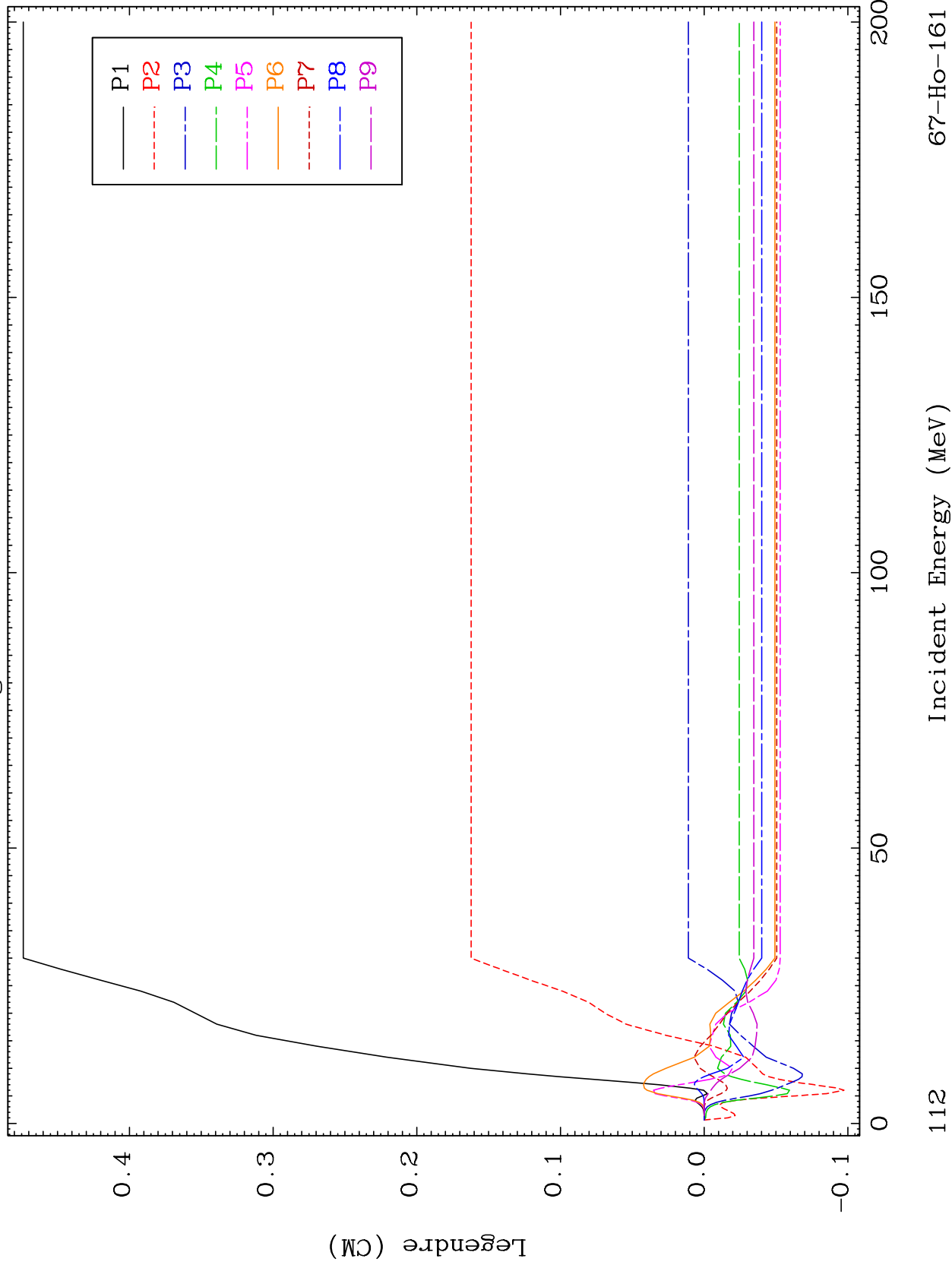
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



67-Ho-161

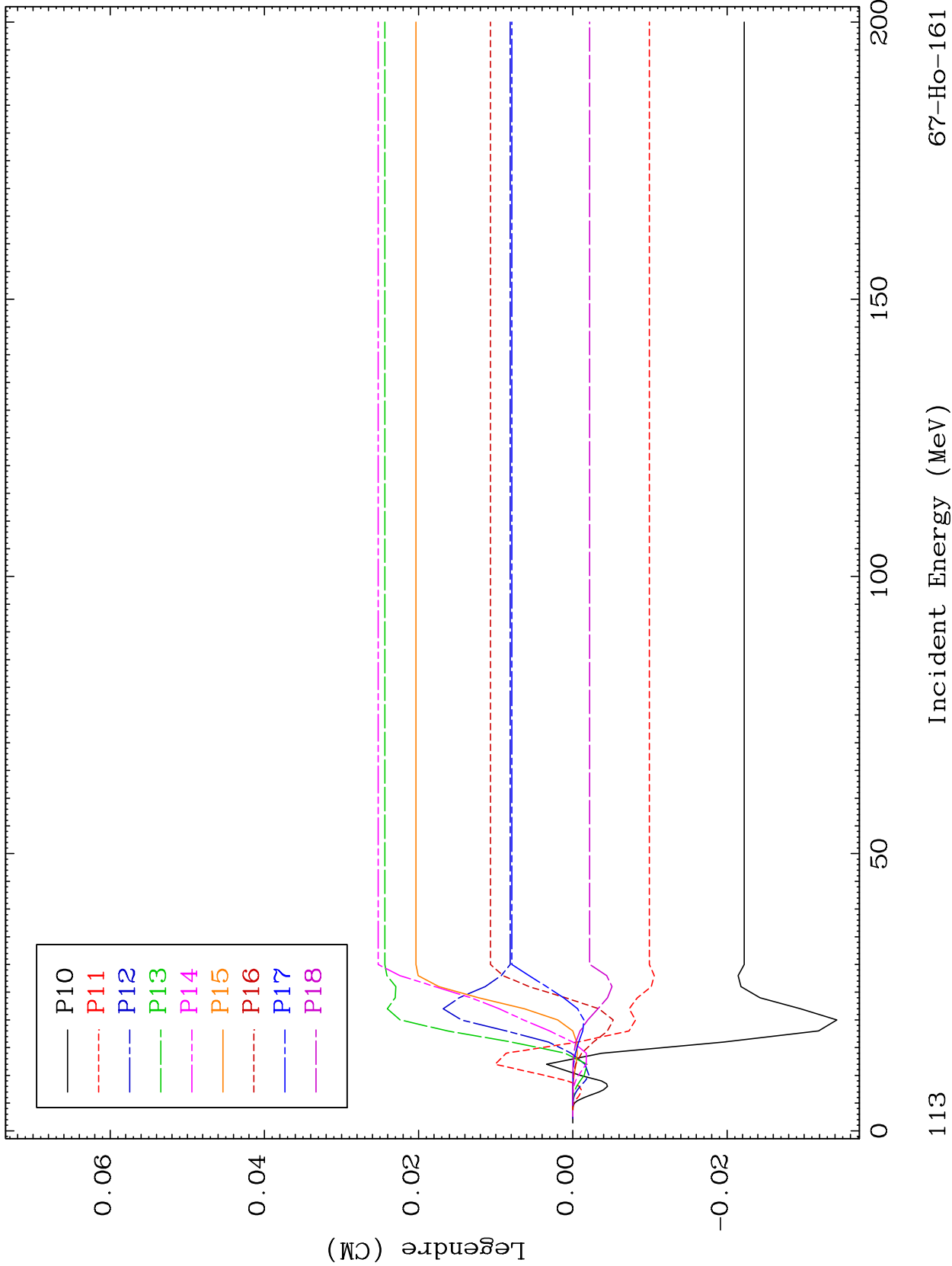
Incident Energy (MeV)

112

MAT 6713

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

67-Ho-161



113

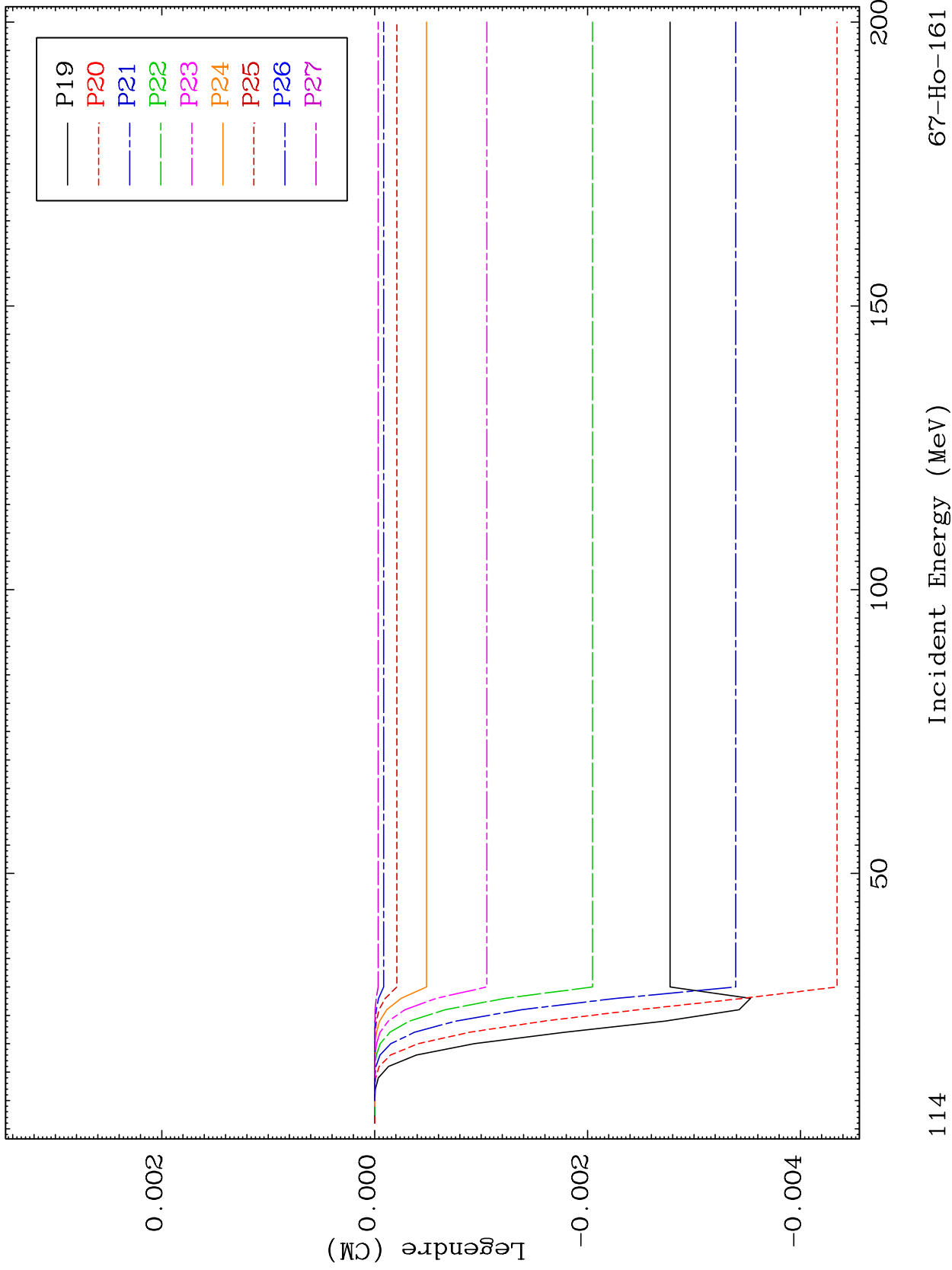
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

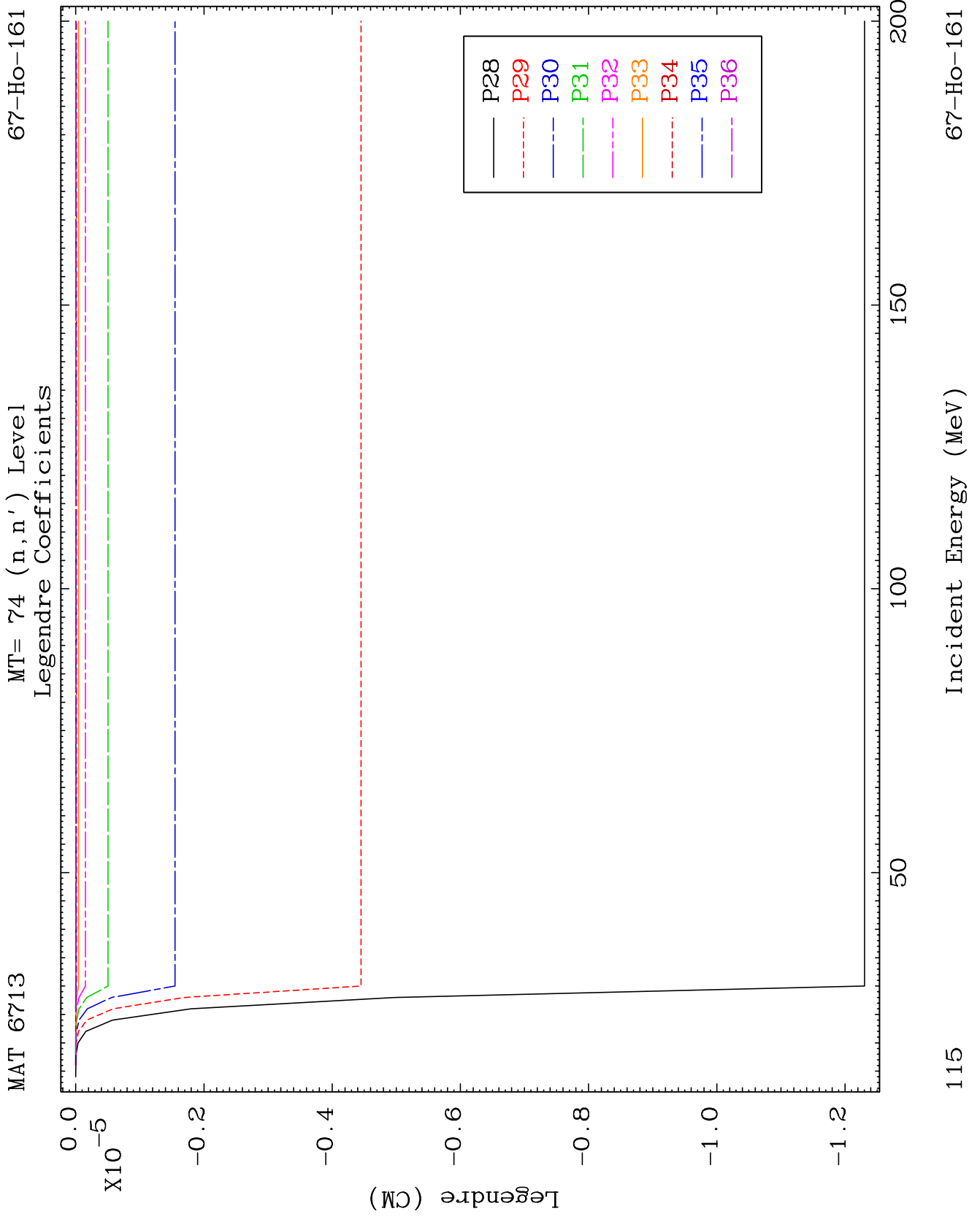
67-Ho-161



114

Incident Energy (MeV)

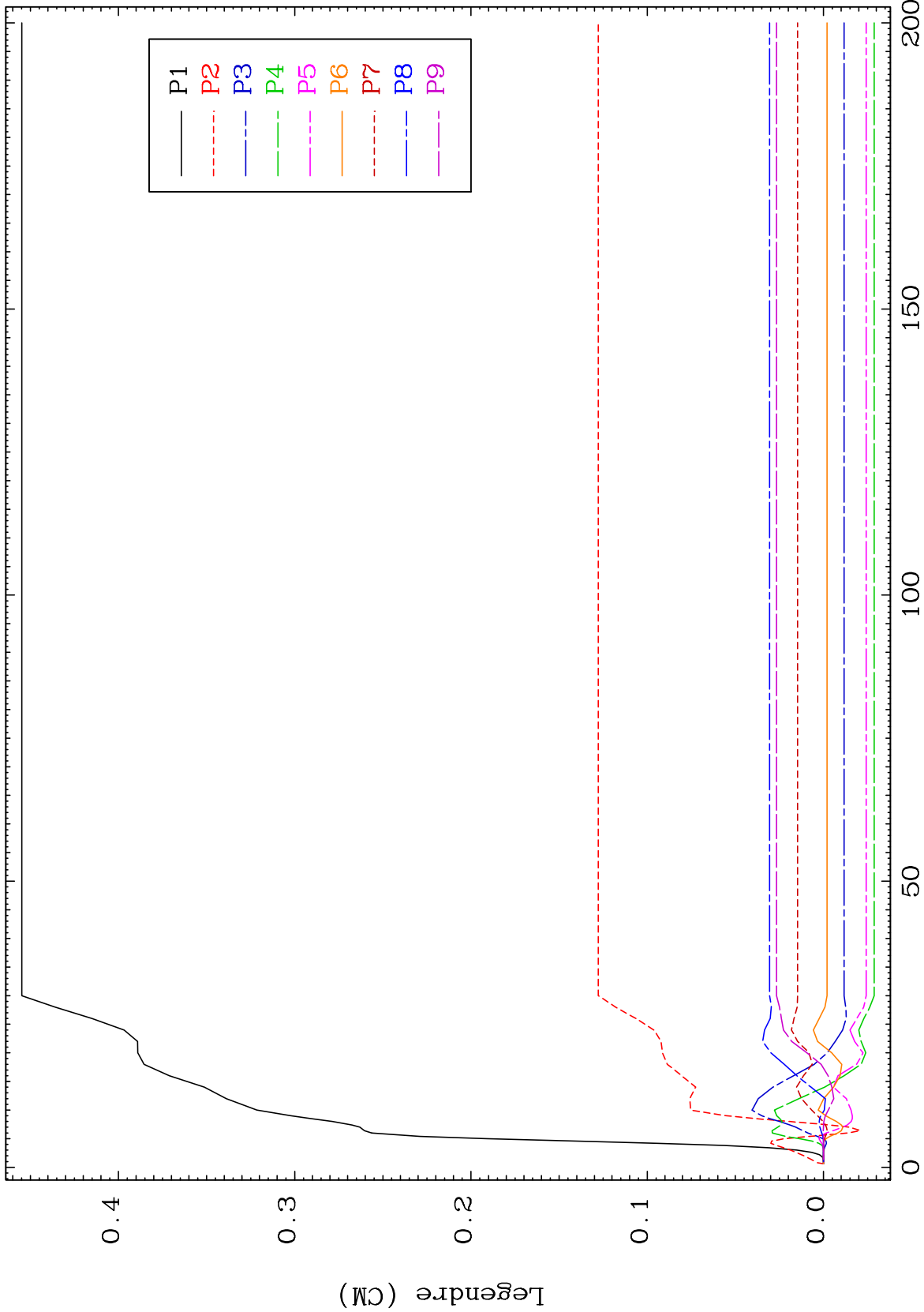
67-Ho-161



MAT 6713

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

67-Ho-161



67-Ho-161

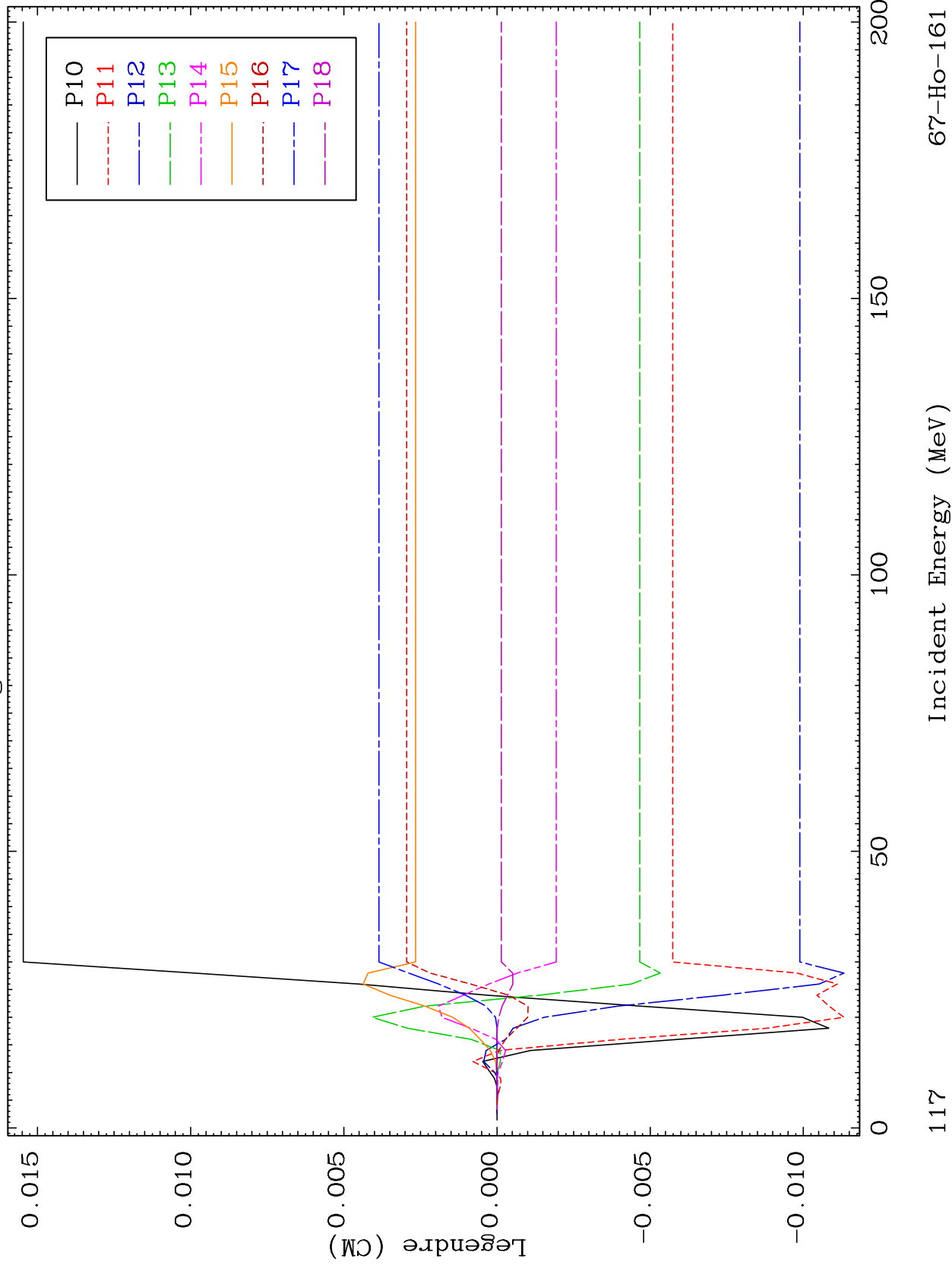
Incident Energy (MeV)

116

MAT 6713

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

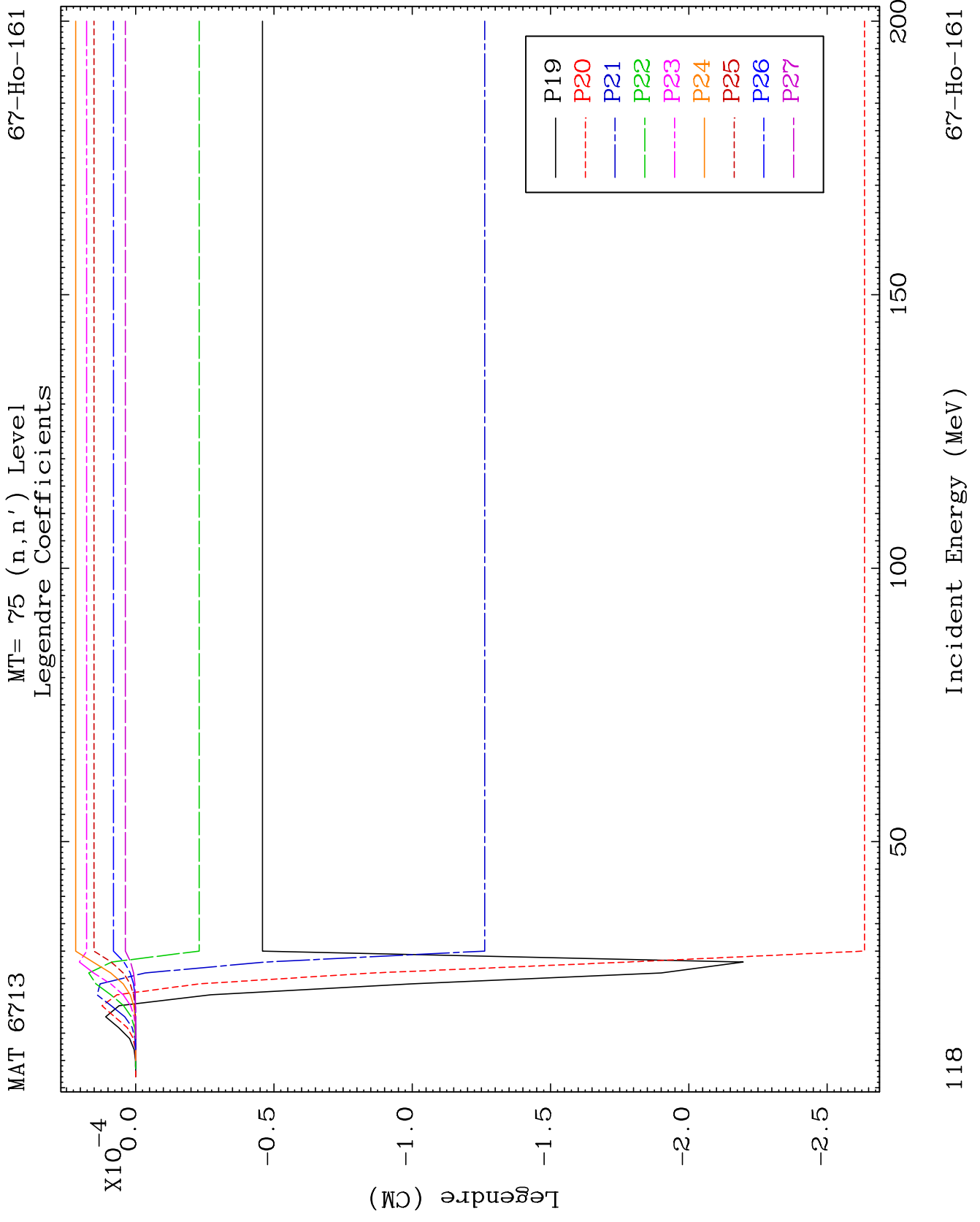
67-Ho-161



117

Incident Energy (MeV)

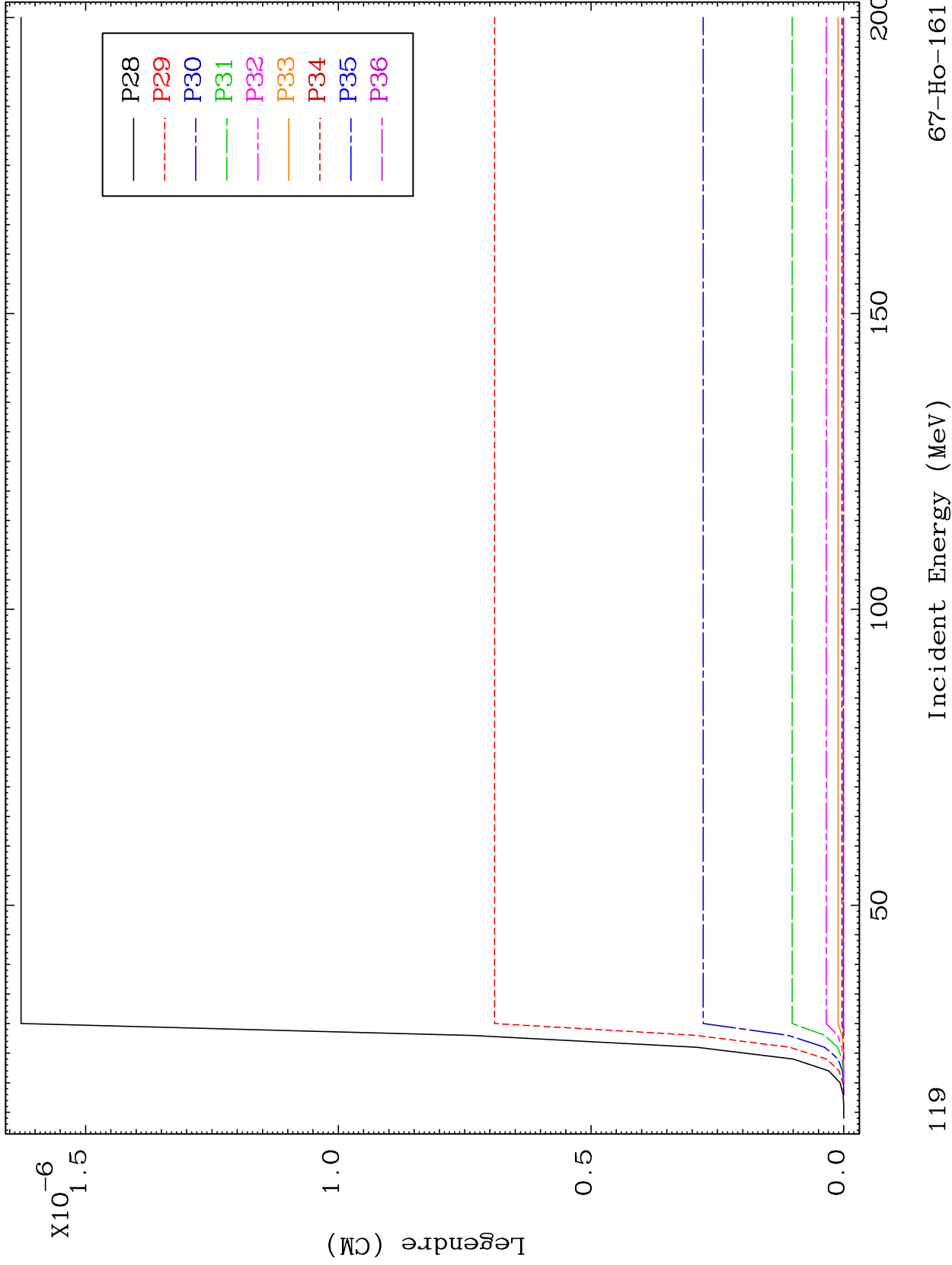
67-Ho-161



MAT 6713

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

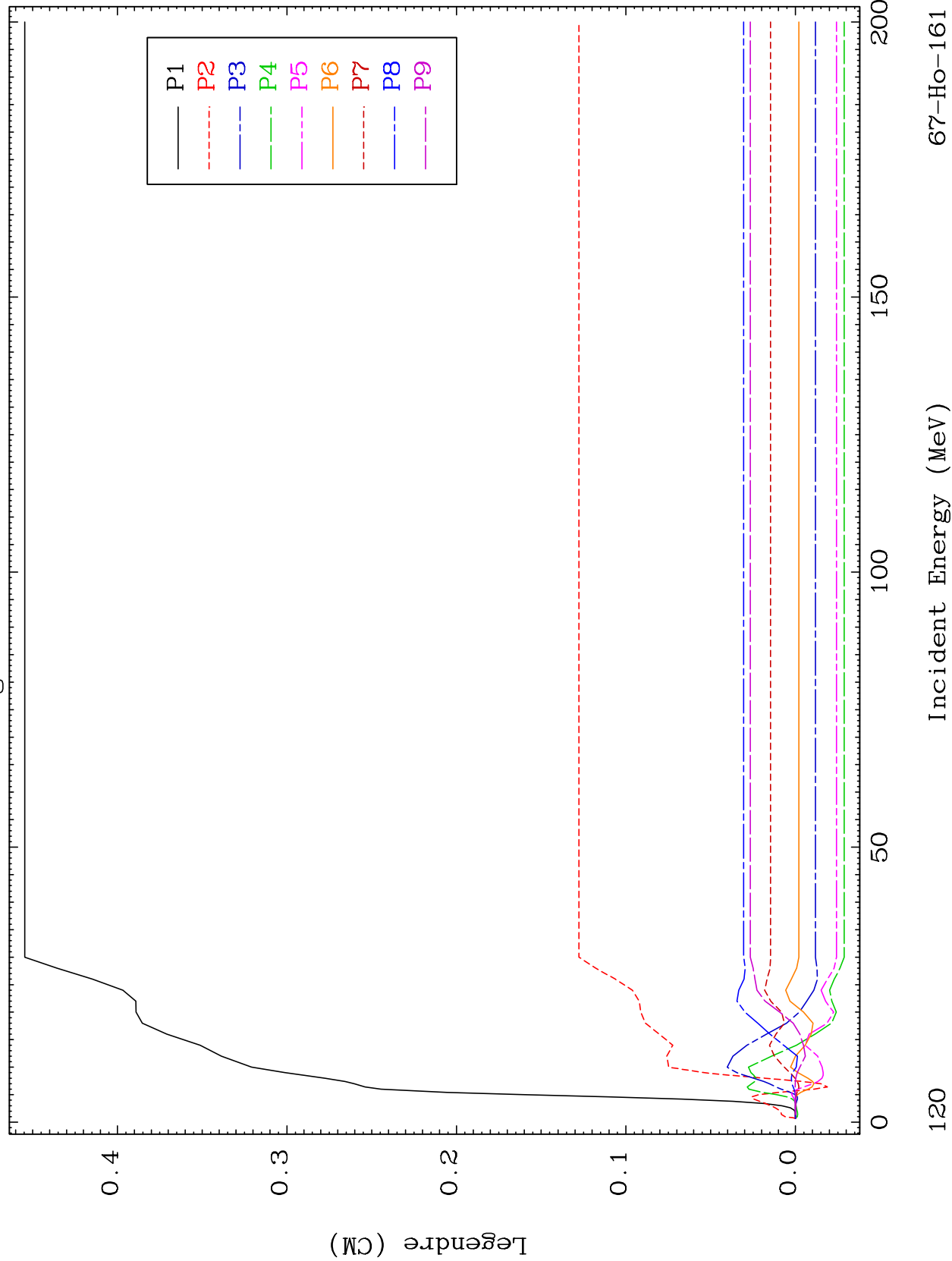
67-Ho-161



MAT 6713

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

67-Ho-161



67-Ho-161

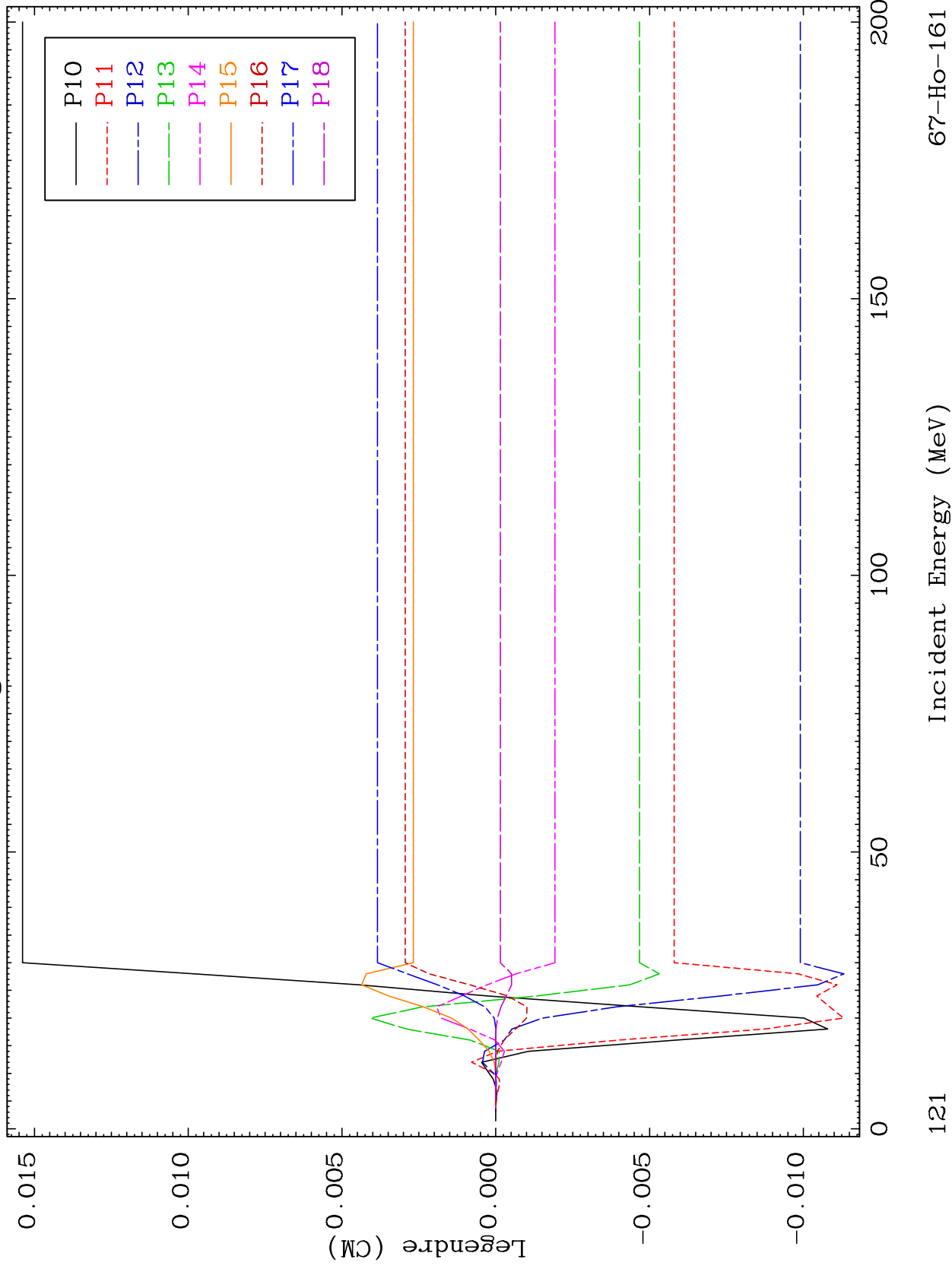
Incident Energy (MeV)

120

MAT 6713

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

67-Ho-161



67-Ho-161

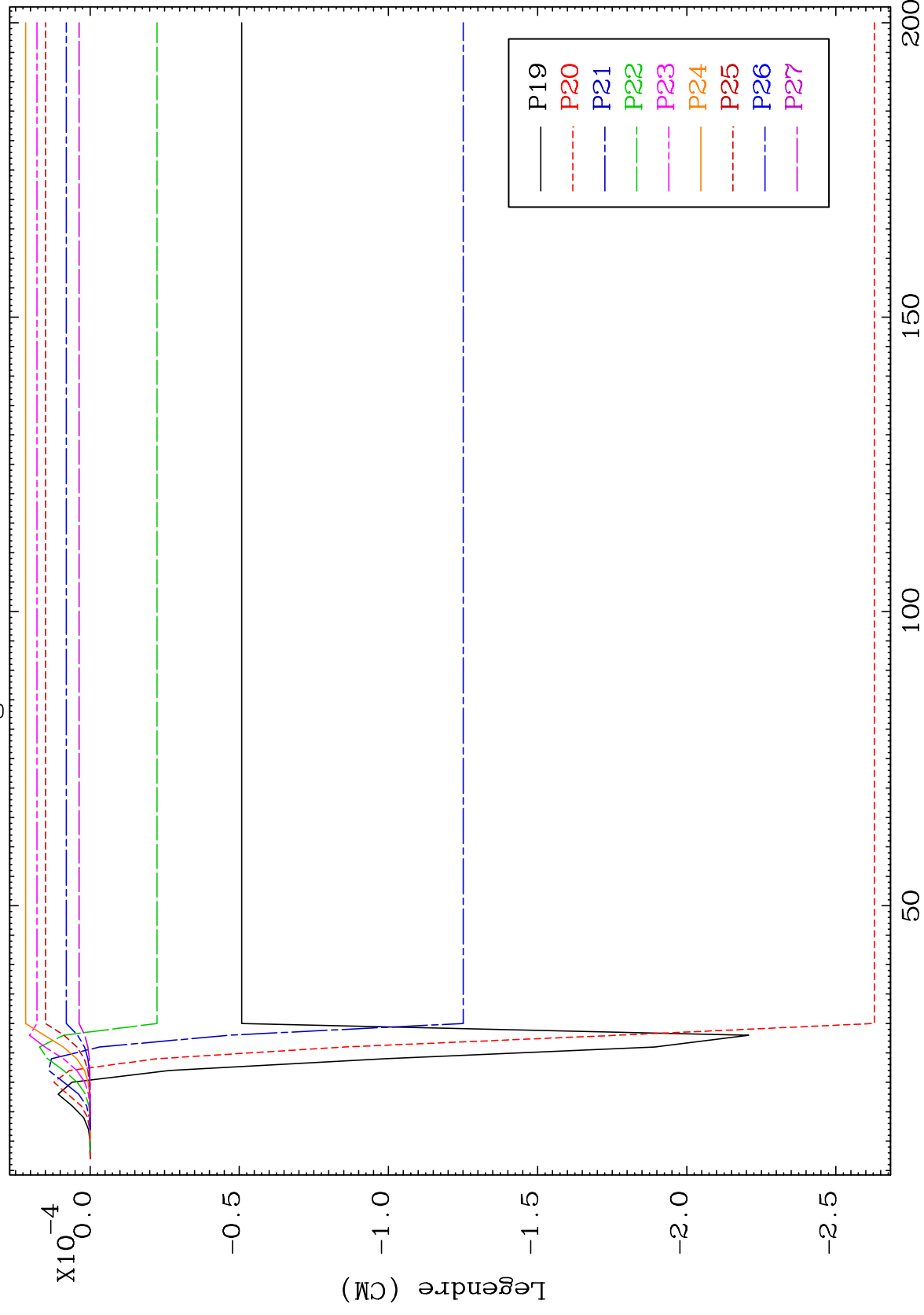
Incident Energy (MeV)

121

MAT 6713

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

67-Ho-161



122

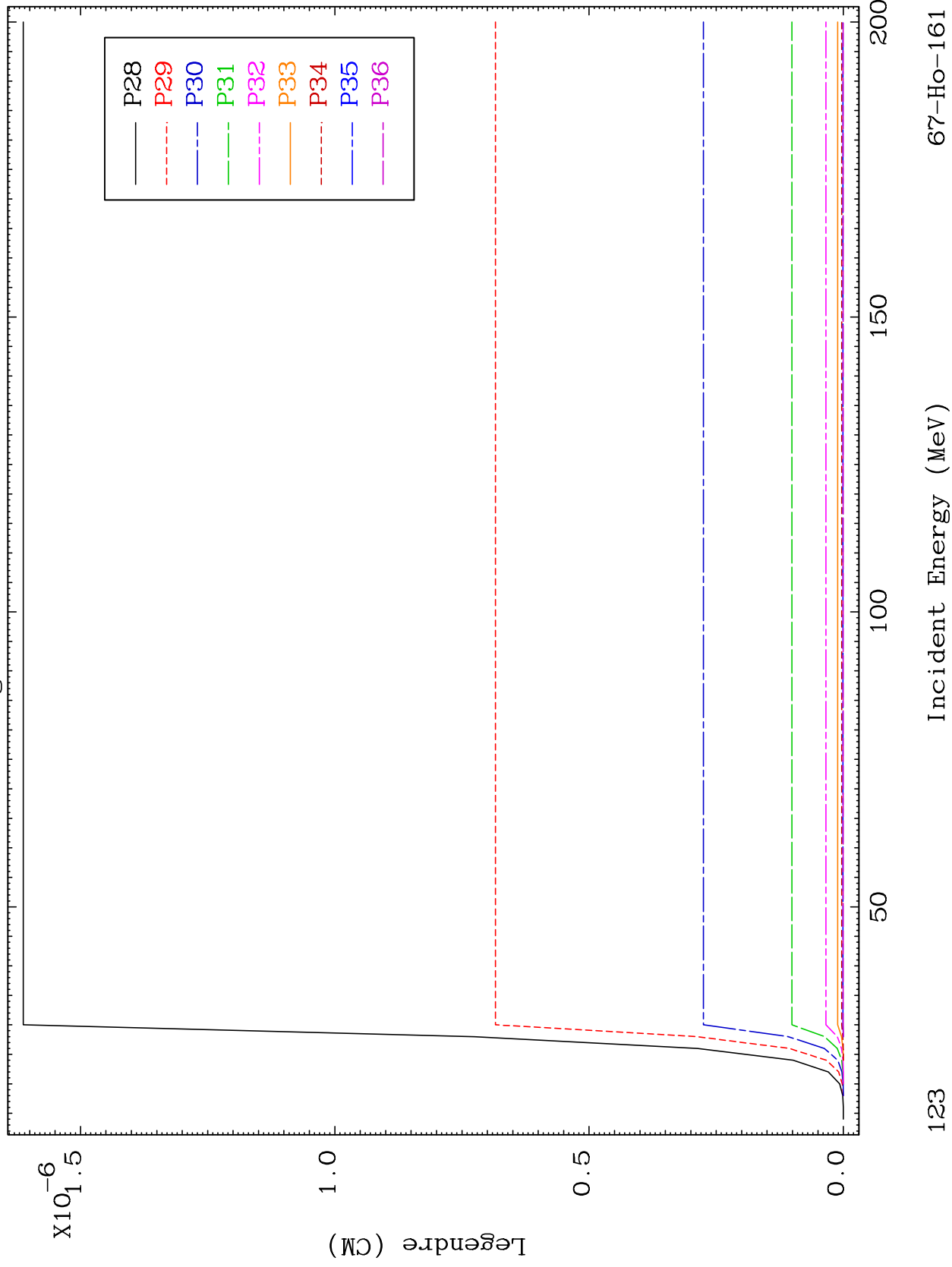
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

67-Ho-161



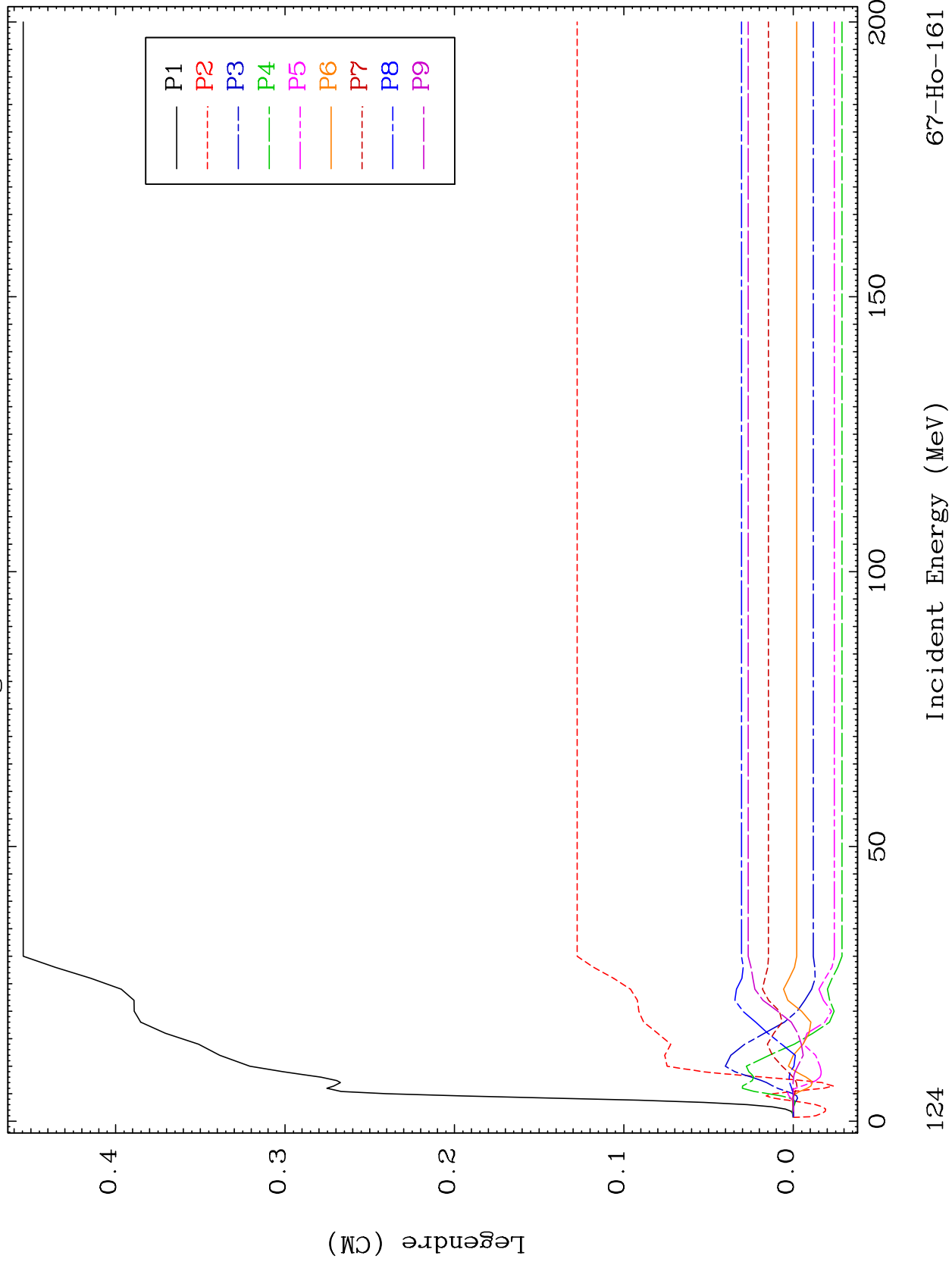
123

67-Ho-161

MAT 6713

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

67-Ho-161



67-Ho-161

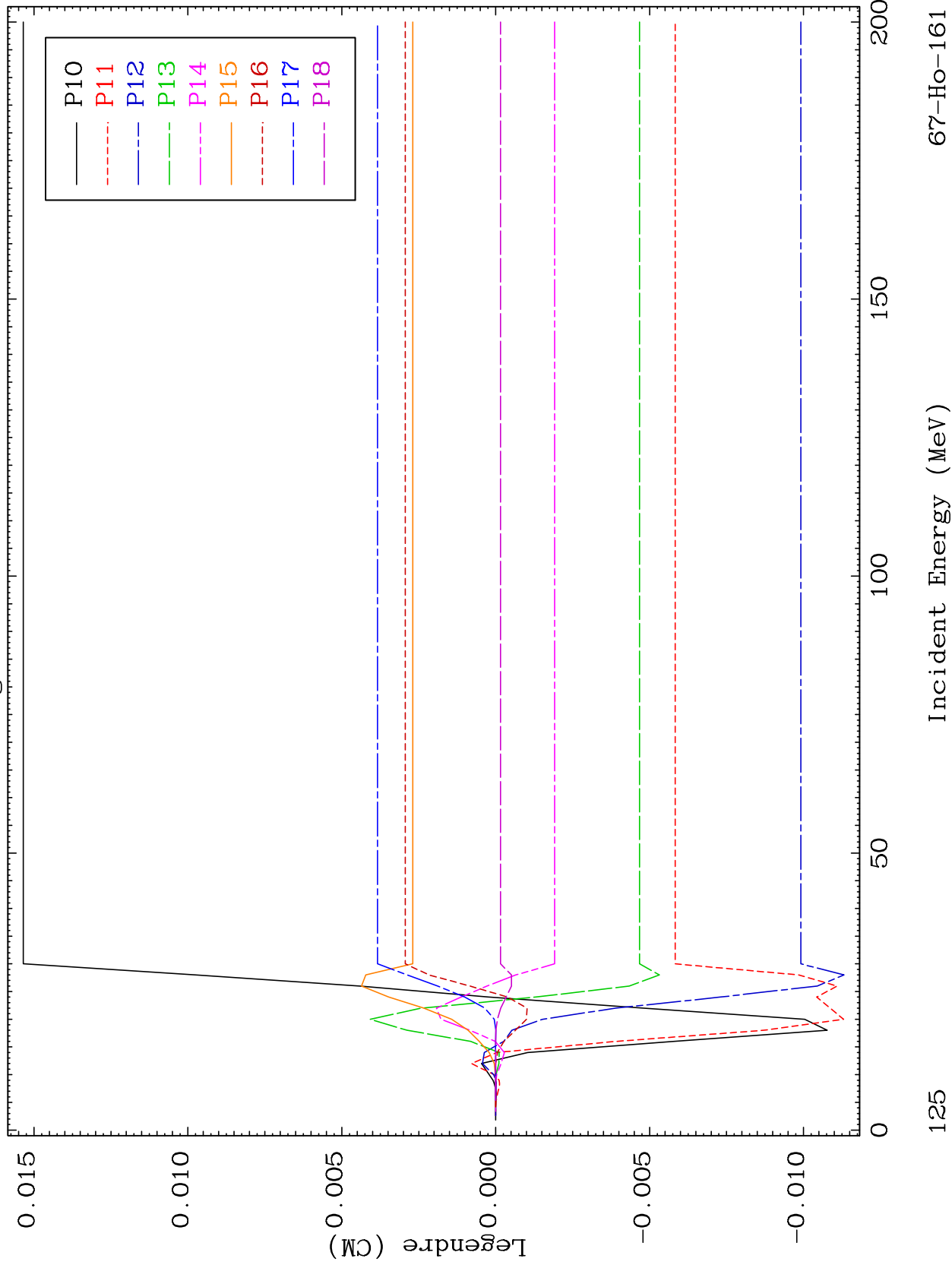
Incident Energy (MeV)

124

MAT 6713

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

67-Ho-161



67-Ho-161

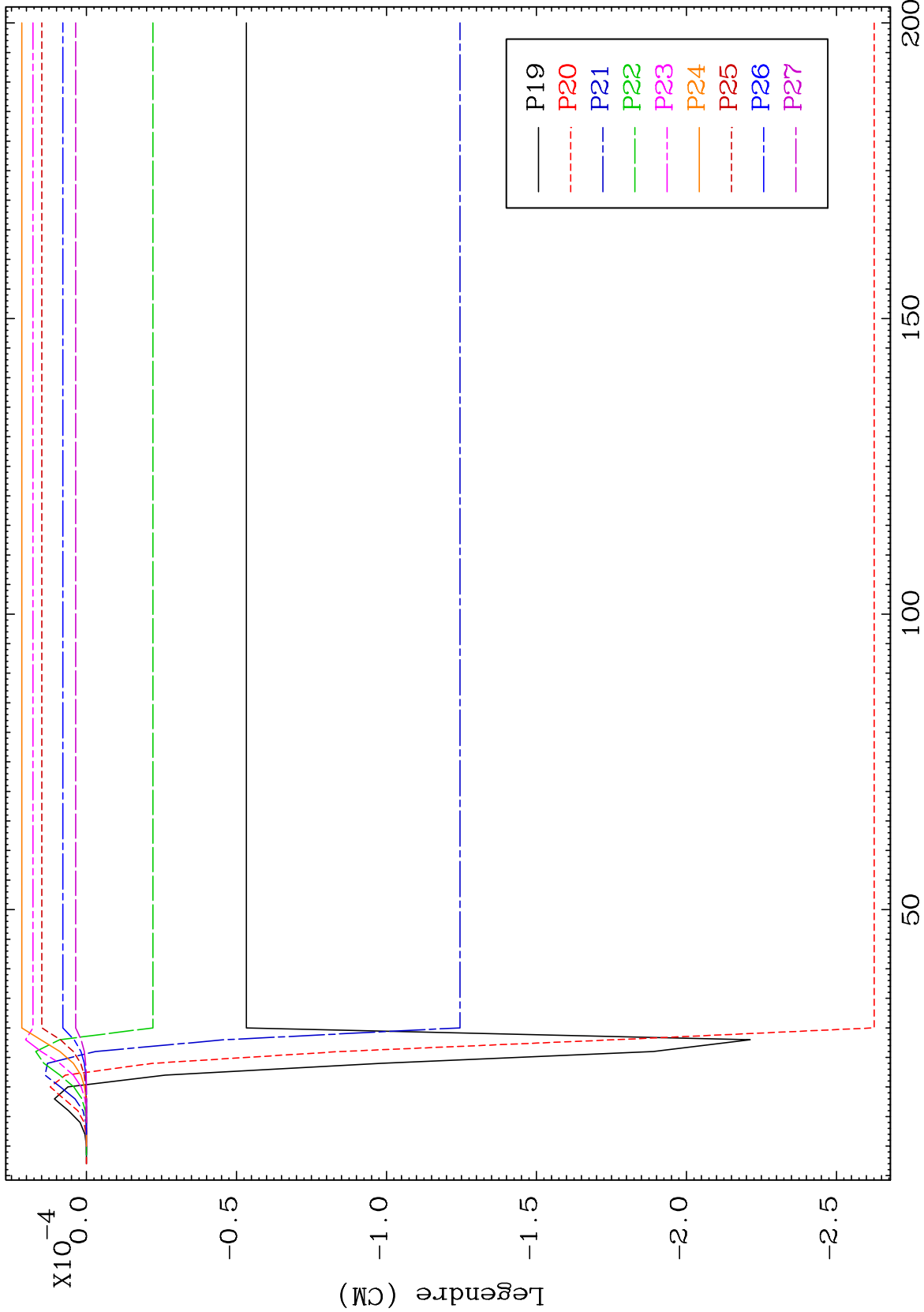
Incident Energy (MeV)

125

MAT 6713

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

67-Ho-161



126

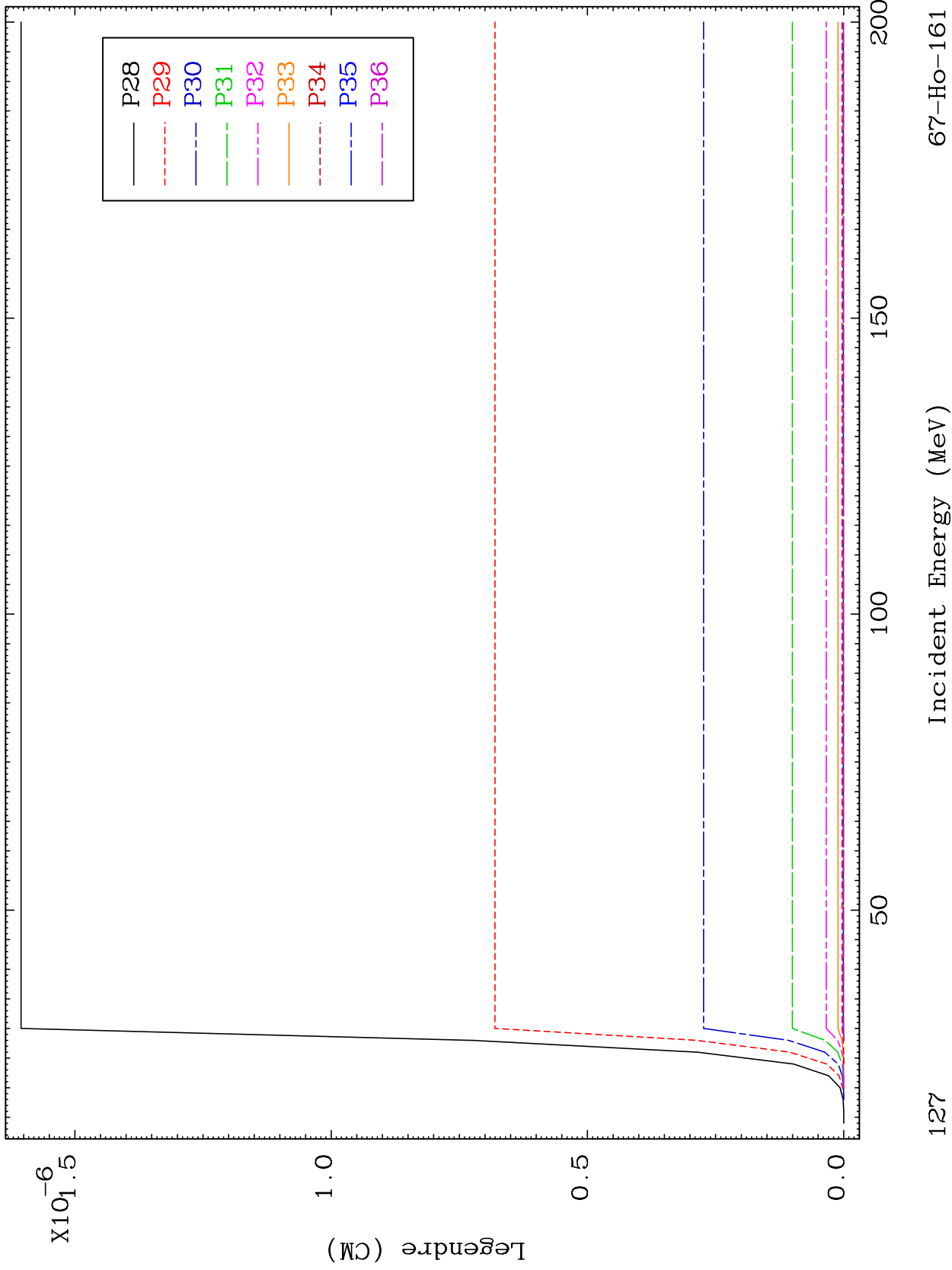
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

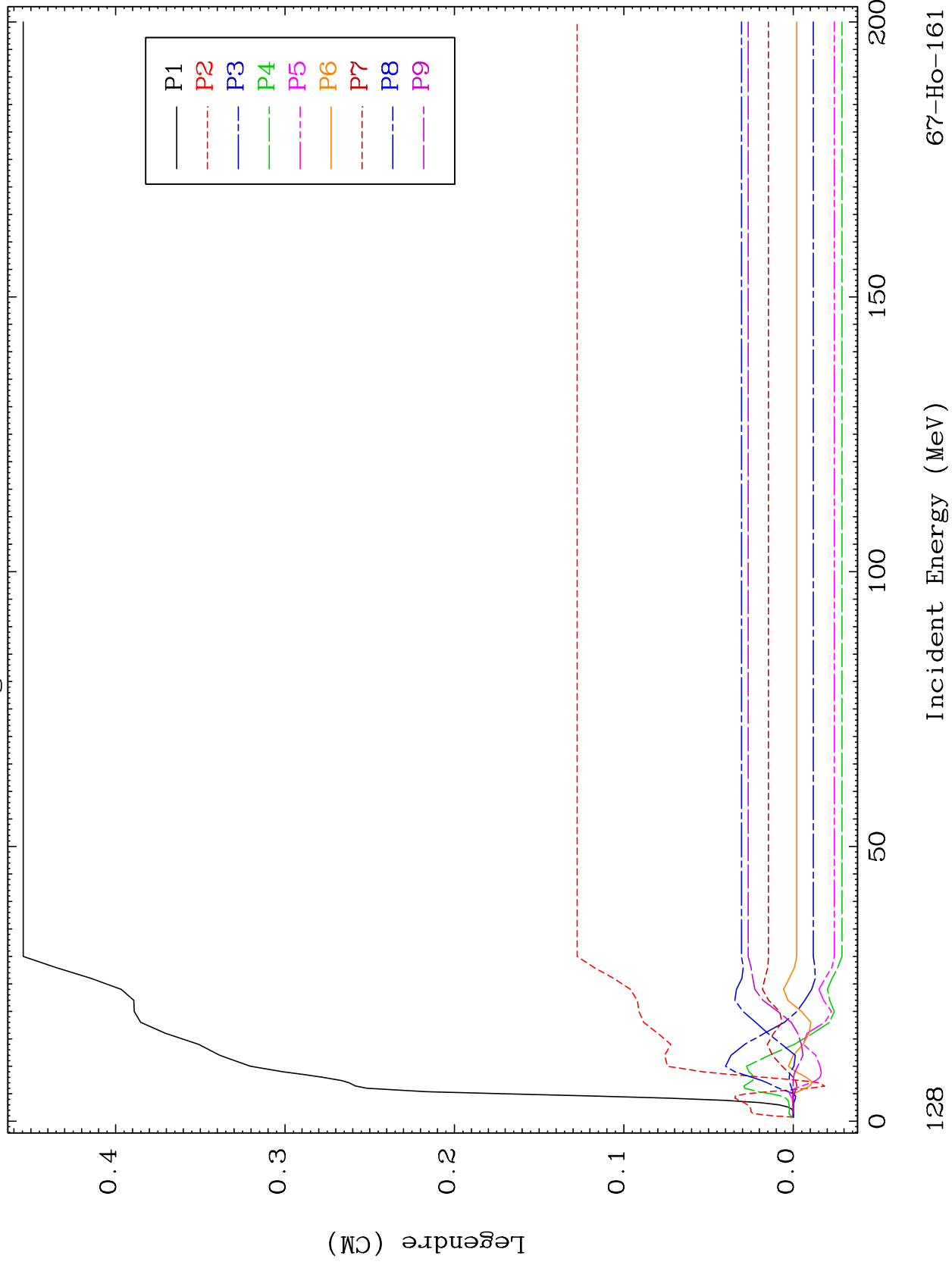
67-Ho-161



MAT 6713

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

67-Ho-161



67-Ho-161

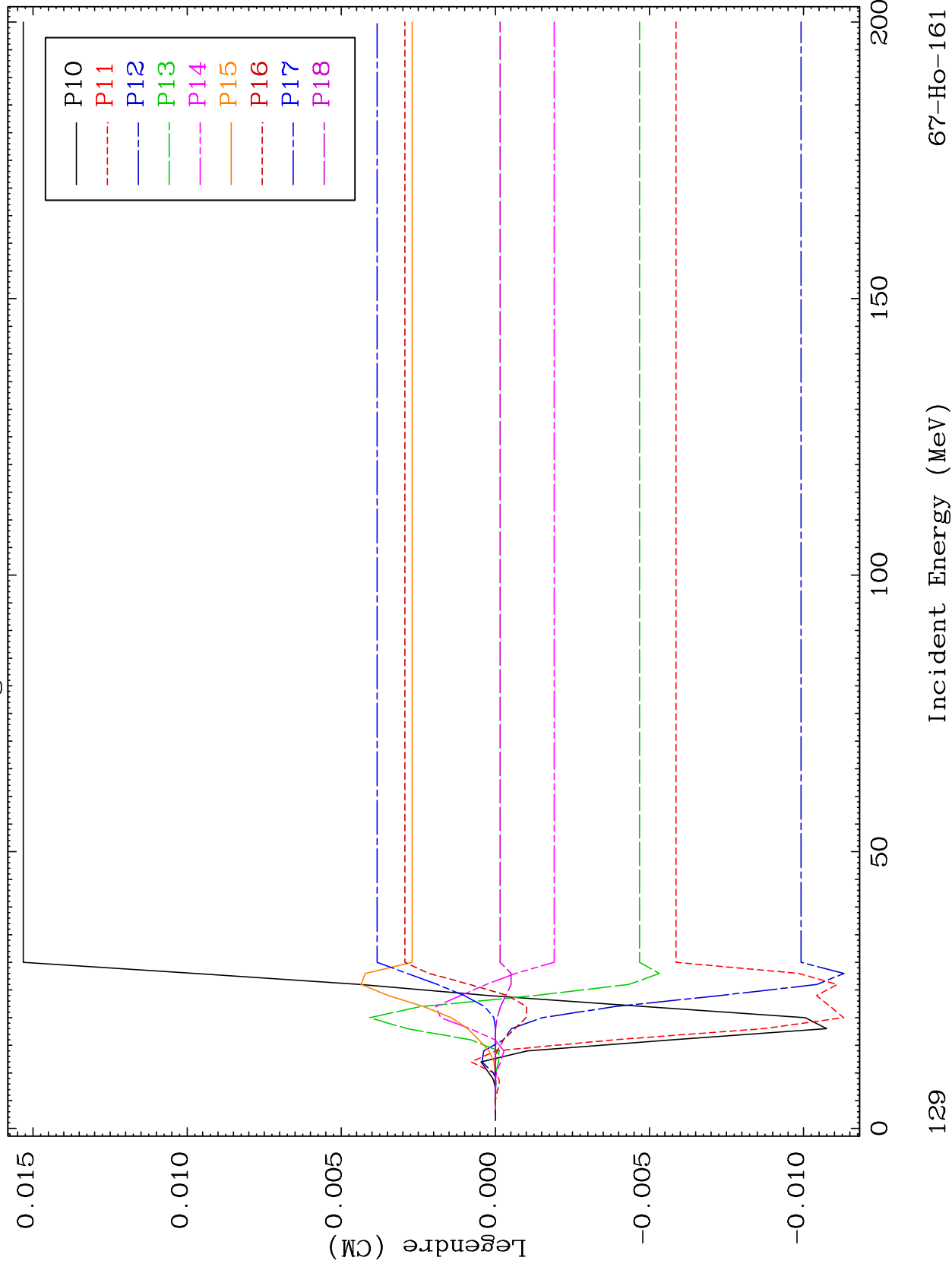
Incident Energy (MeV)

128

MAT 6713

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

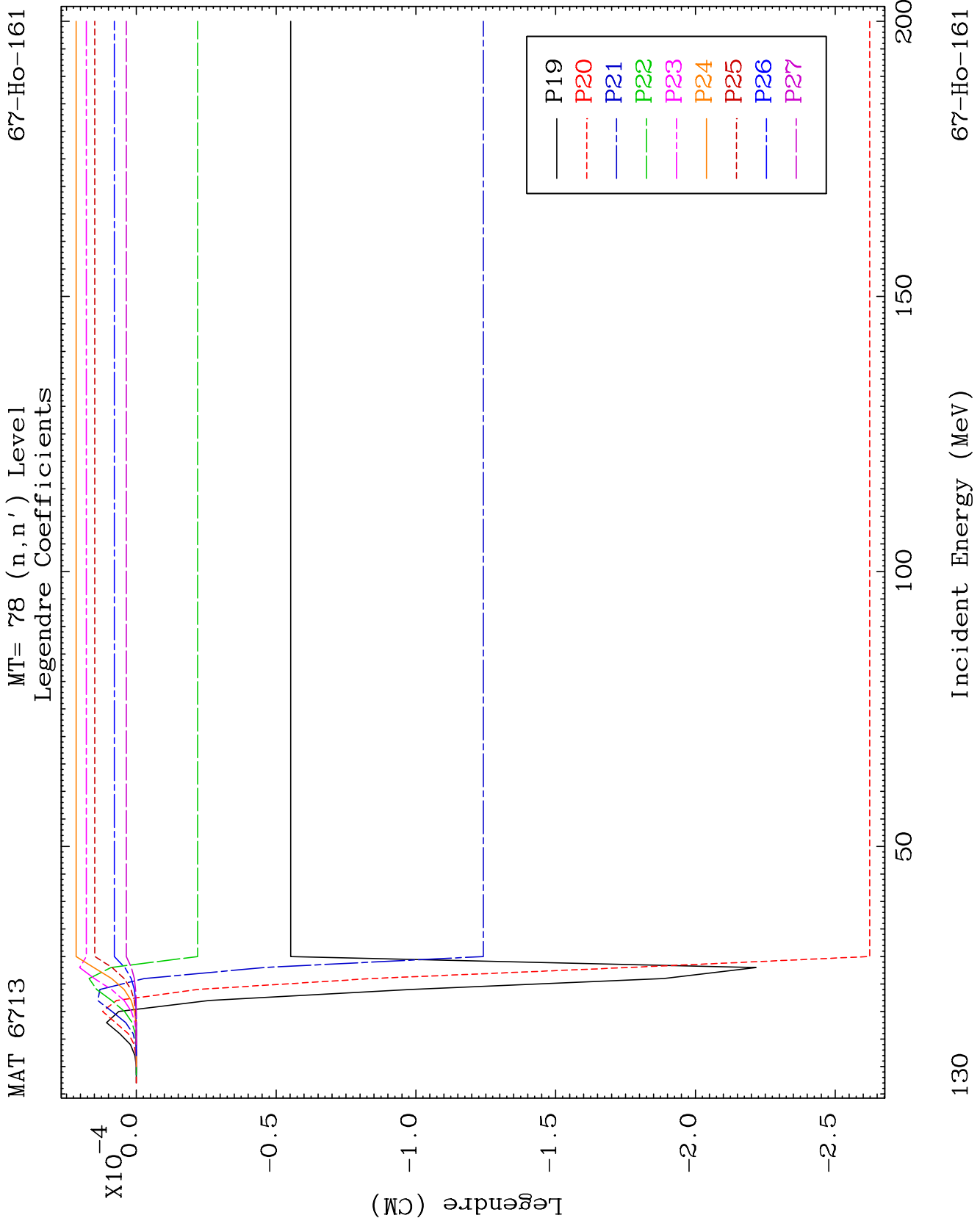
67-Ho-161



129

Incident Energy (MeV)

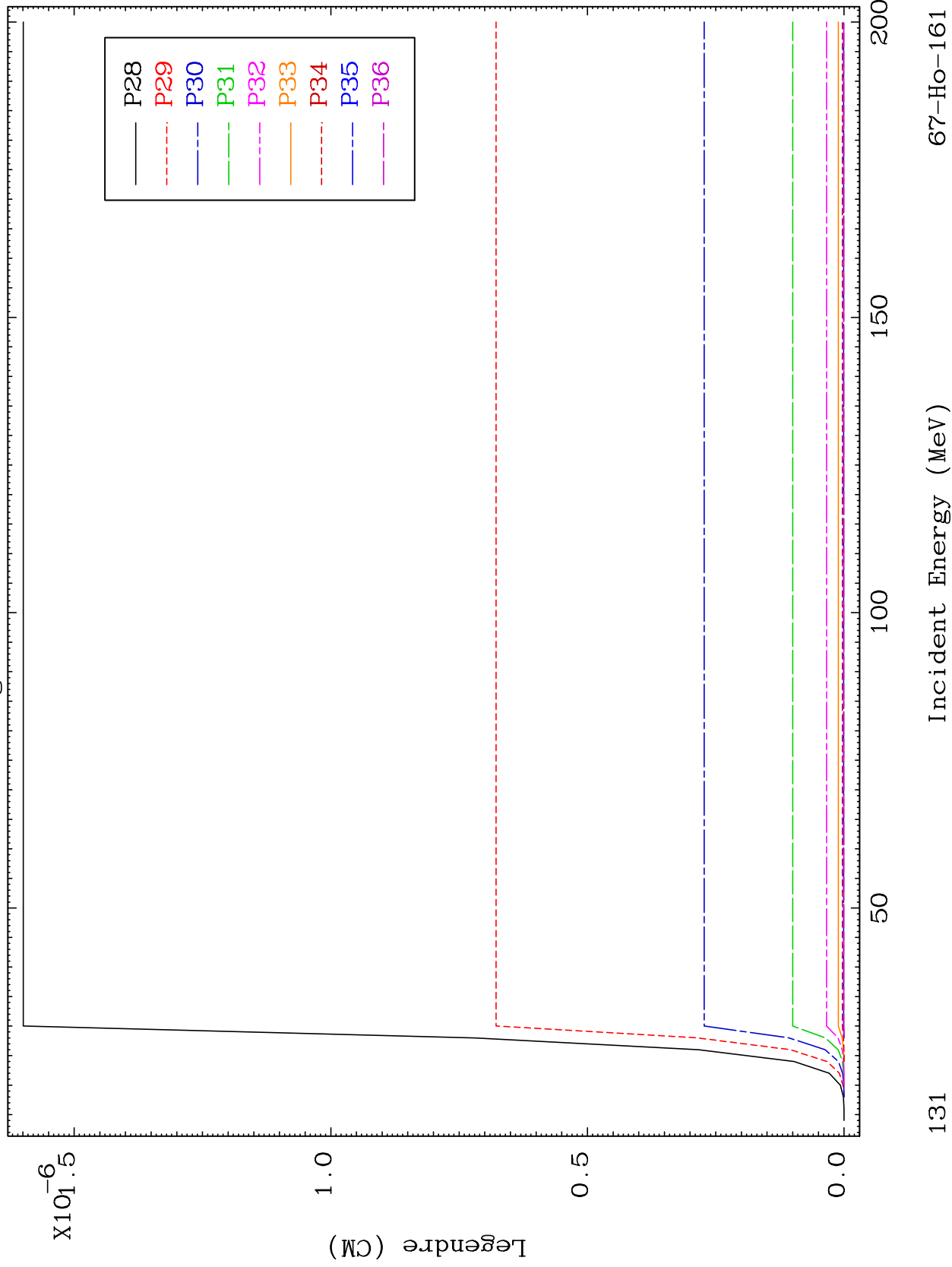
67-Ho-161



MAT 6713

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

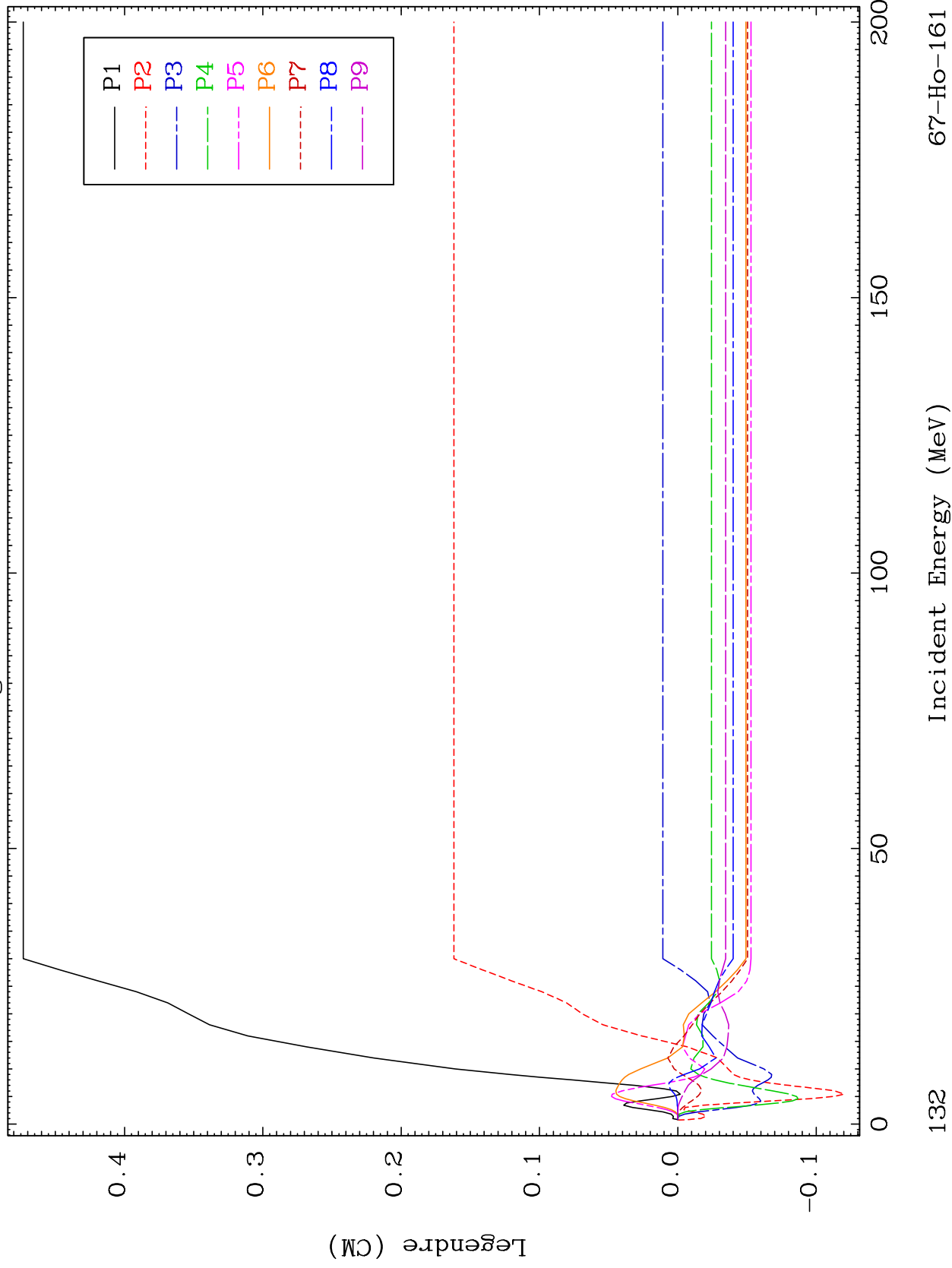
67-Ho-161



MAT 6713

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

67-Ho-161



67-Ho-161

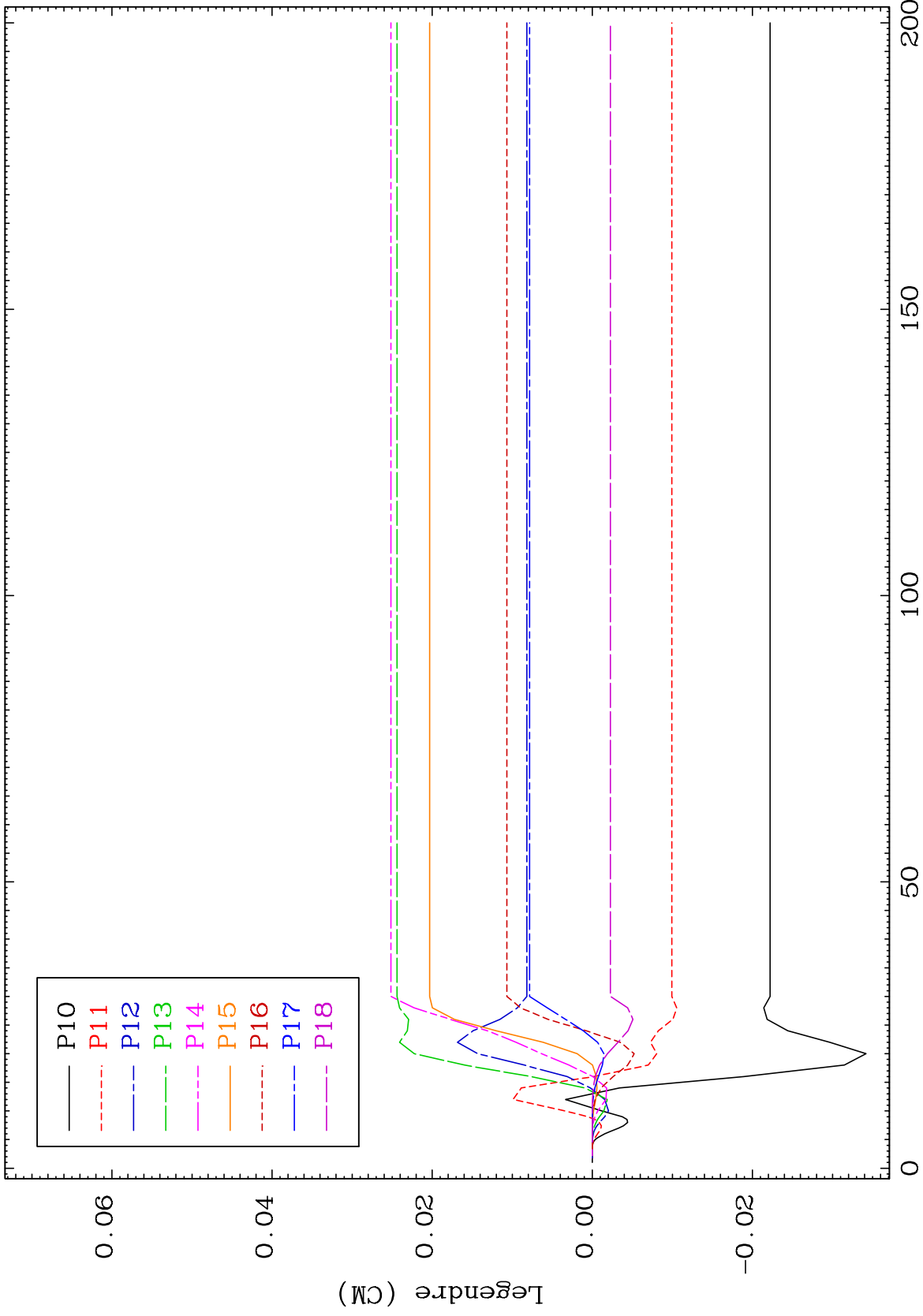
Incident Energy (MeV)

132

MAT 6713

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

67-Ho-161



133

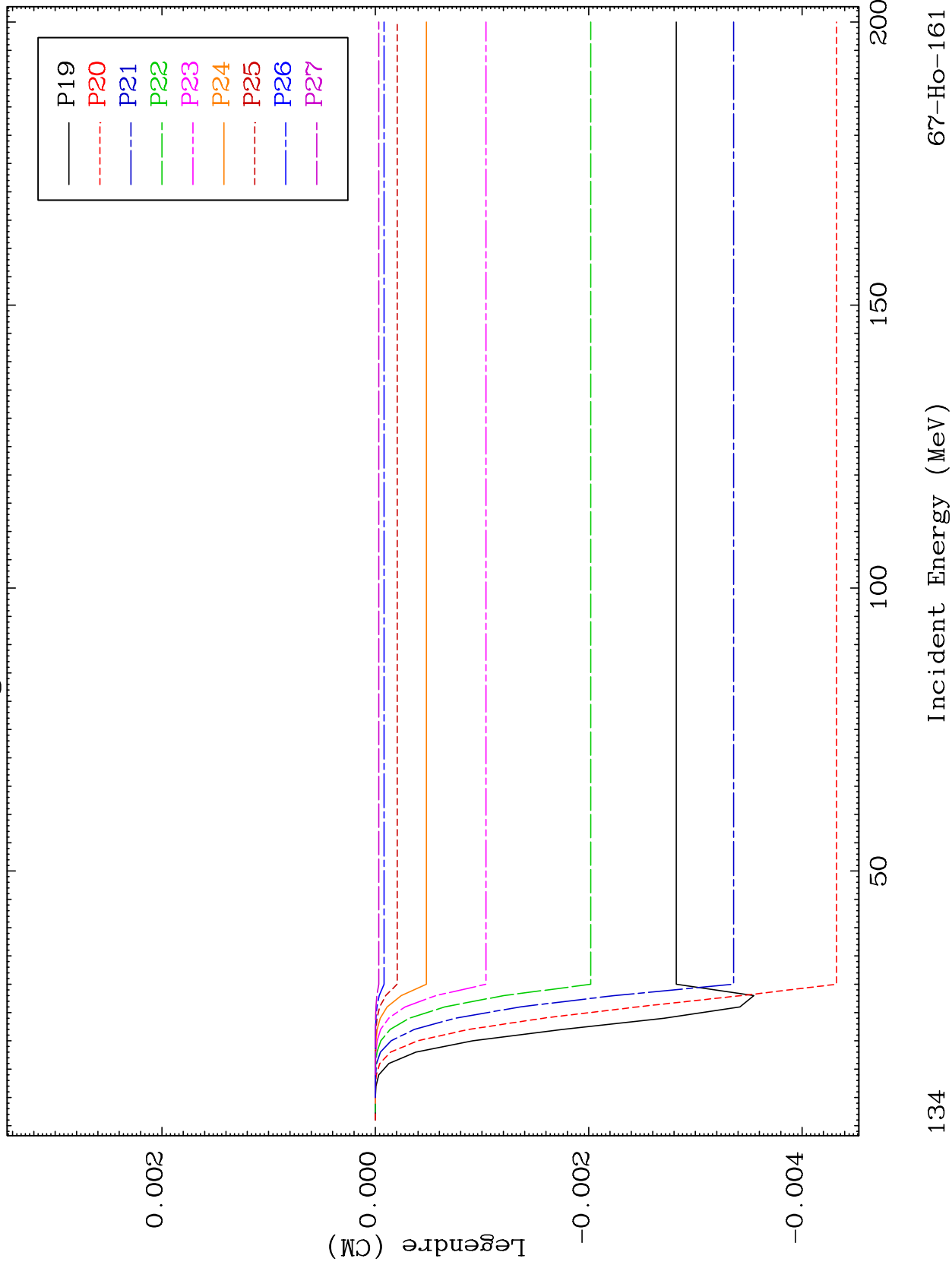
Incident Energy (MeV)

67-Ho-161

MAT 6713

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

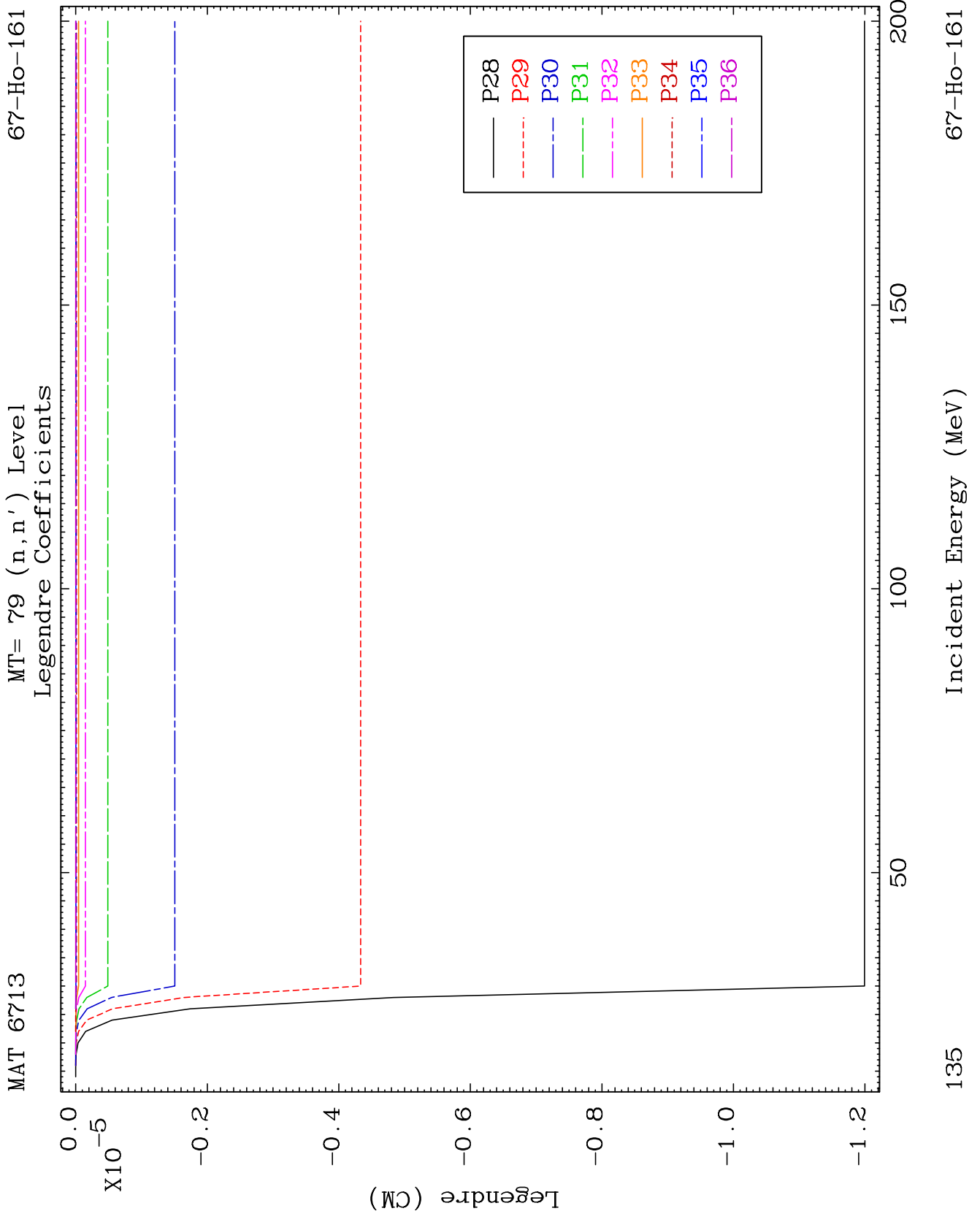
67-Ho-161



134

Incident Energy (MeV)

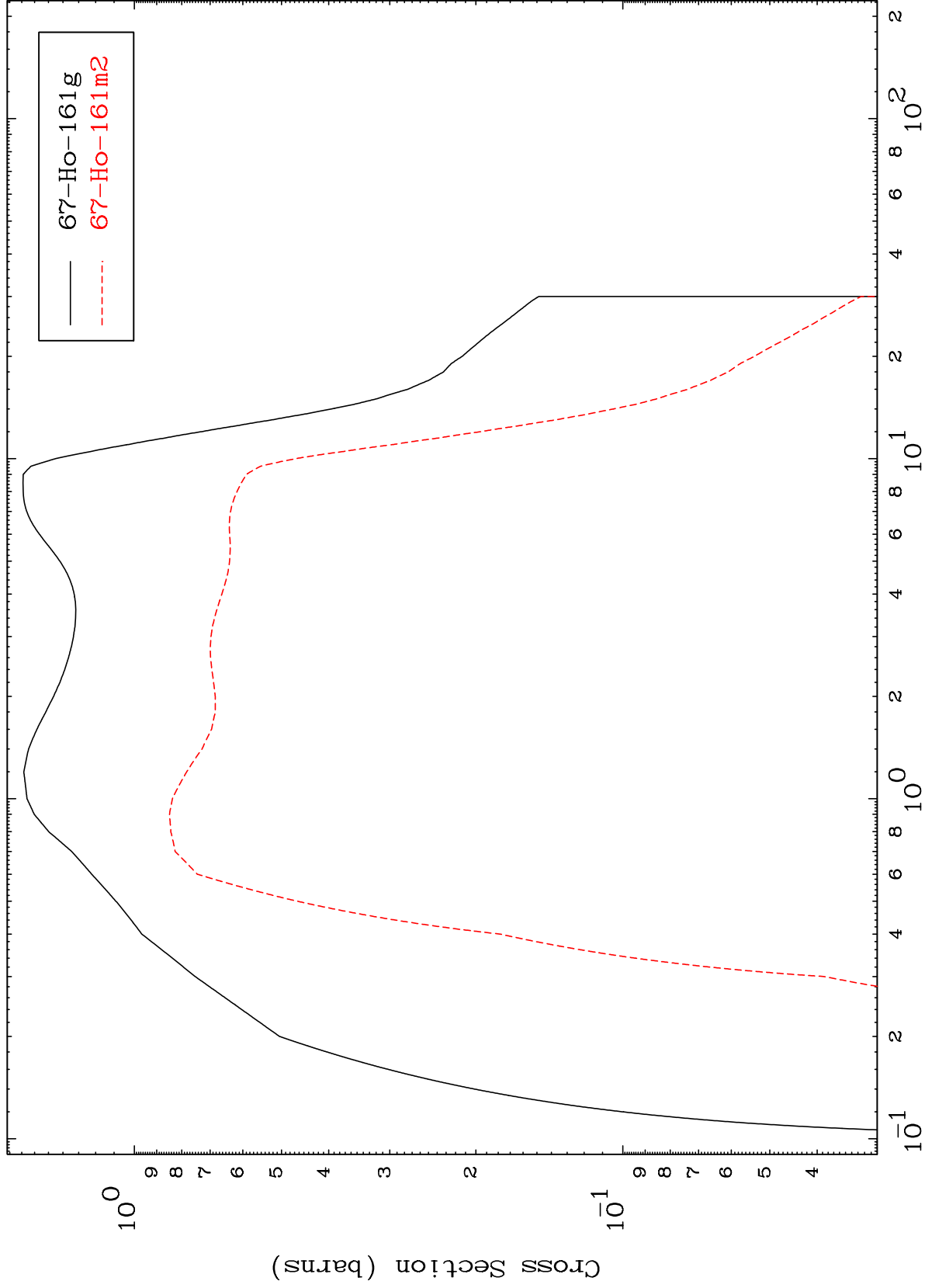
67-Ho-161



MAT 6713

67-Ho-161

Inelastic
Radionuclide Production Cross Section



67-Ho-161

Incident Energy (MeV)

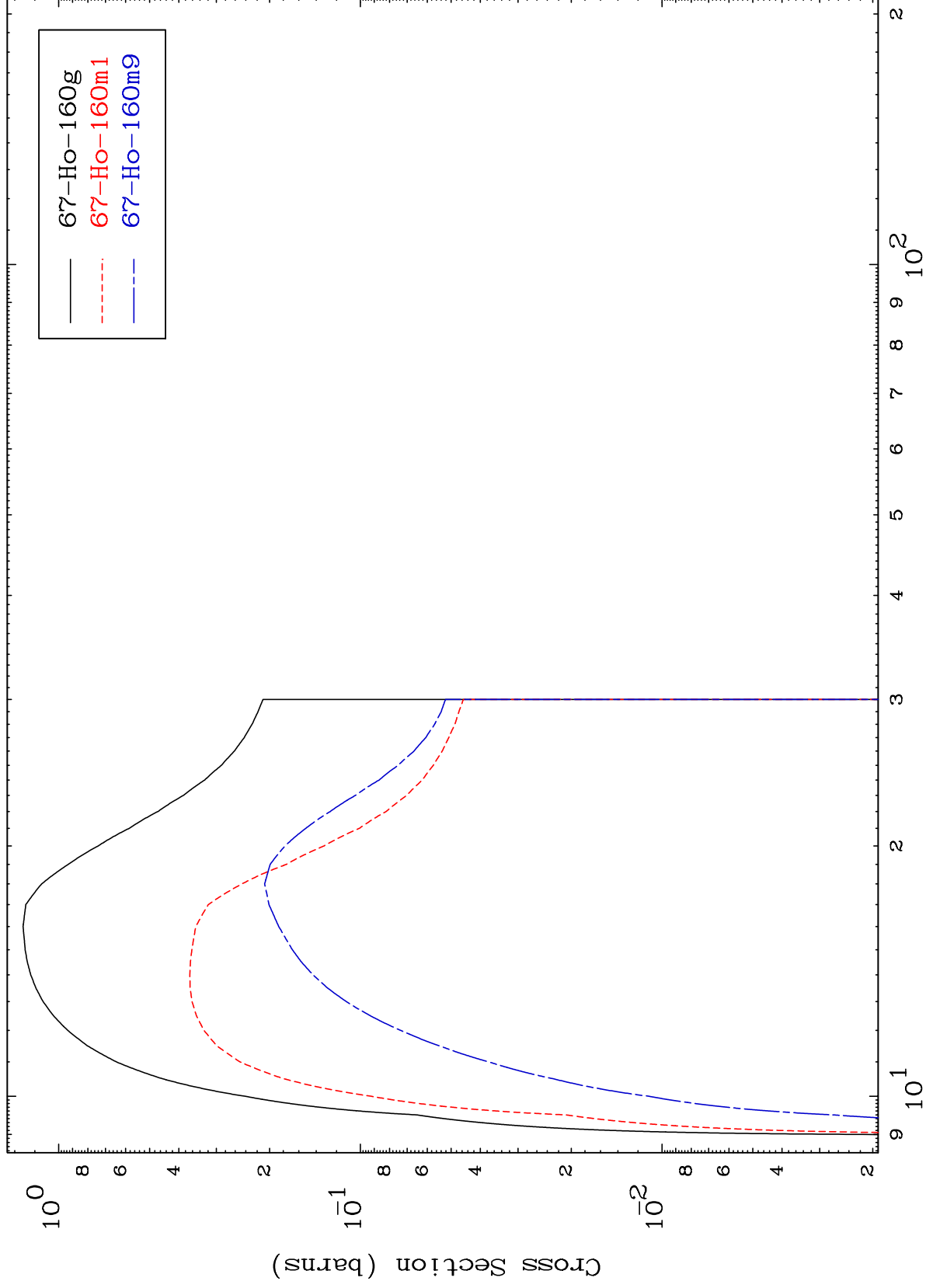
136

MAT 6713

(n,2n)

67-Ho-161

Radionuclide Production Cross Section



137

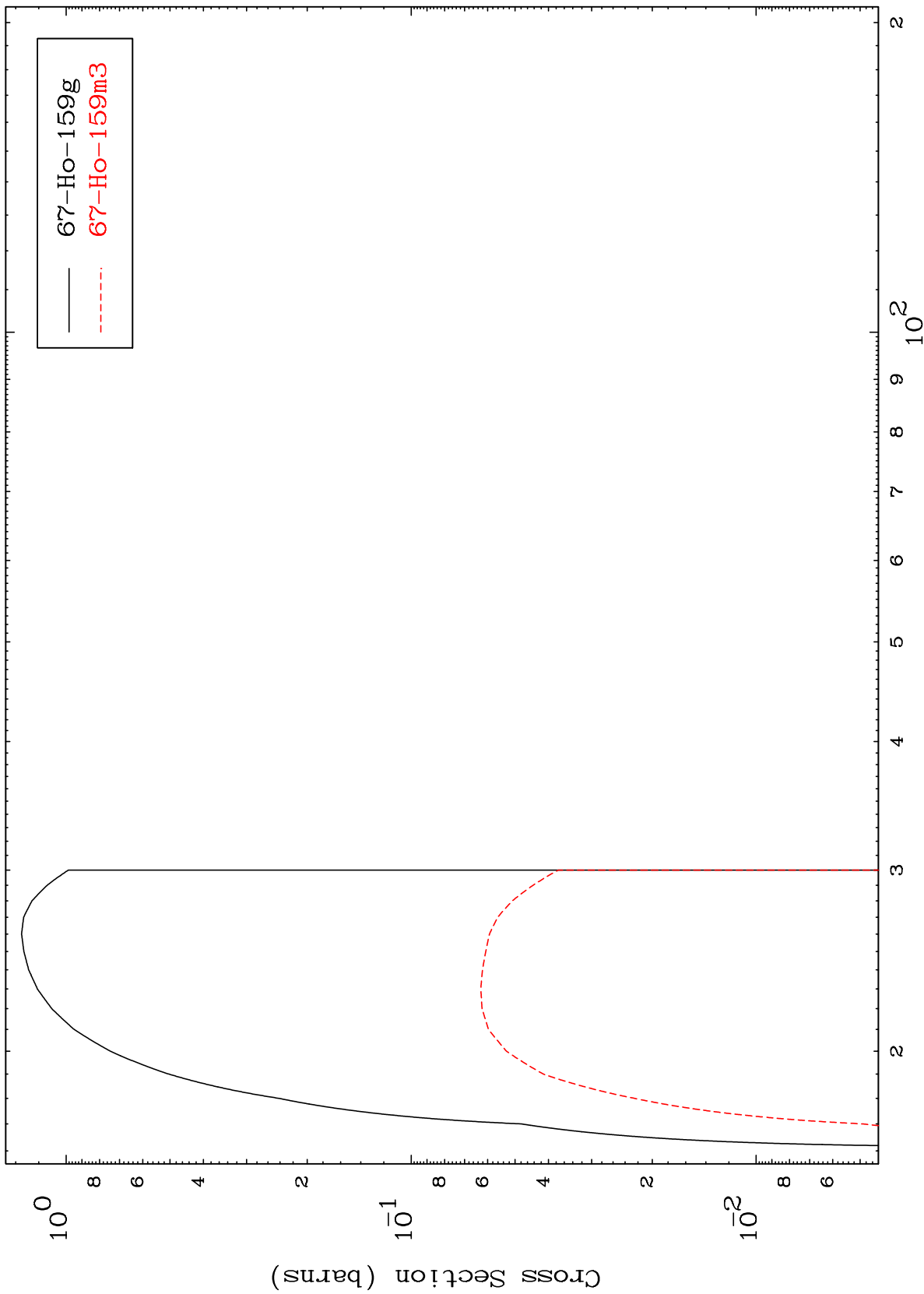
Incident Energy (MeV)

67-Ho-161

MAT 6713

67-Ho-161

(n,3n)
Radionuclide Production Cross Section



138

Incident Energy (MeV)

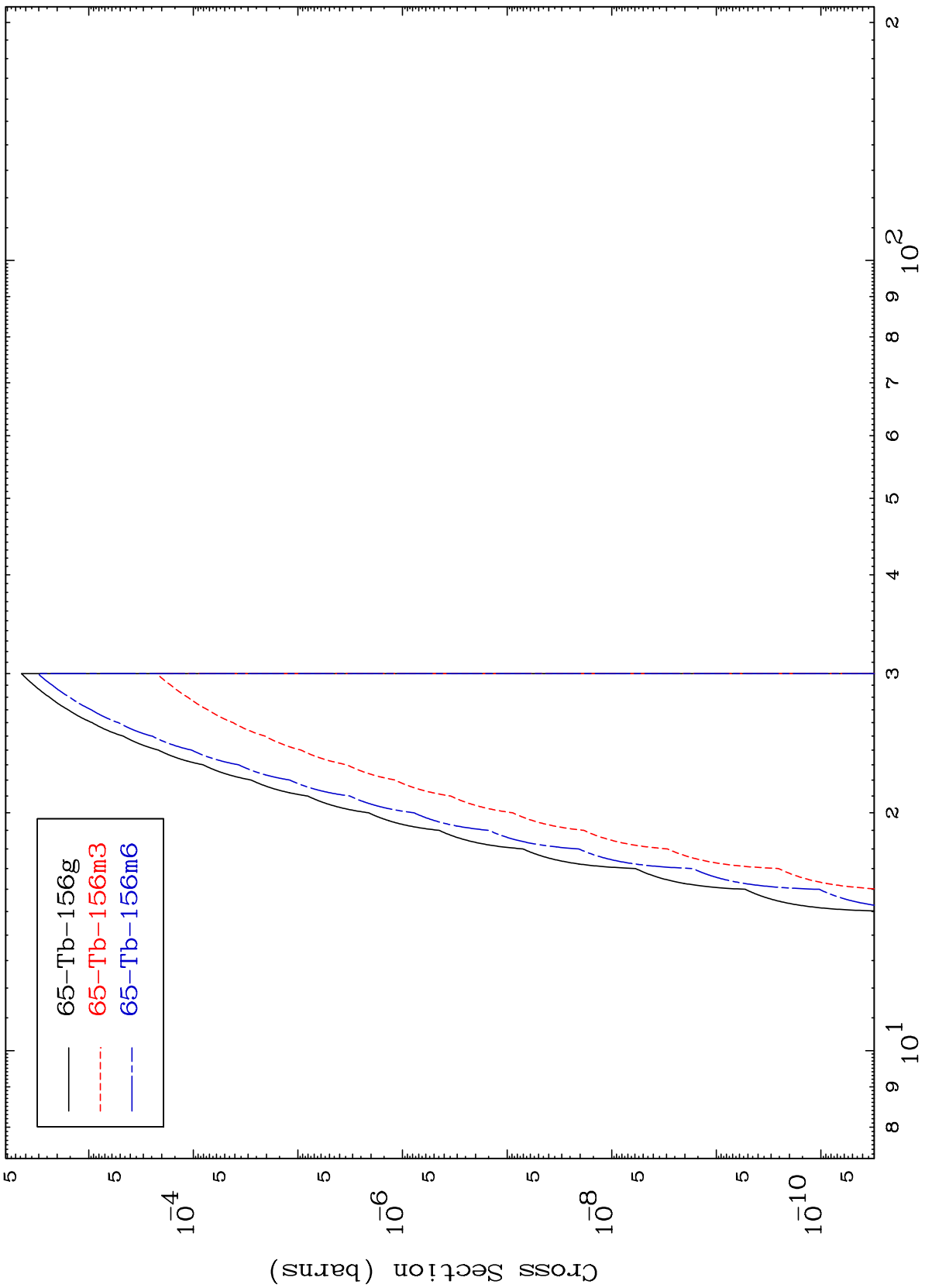
67-Ho-161

MAT 6713

$(n,2n) \alpha$

67-Ho-161

Radionuclide Production Cross Section



65-Tb-156g
65-Tb-156m3
65-Tb-156m6

139

Incident Energy (MeV)

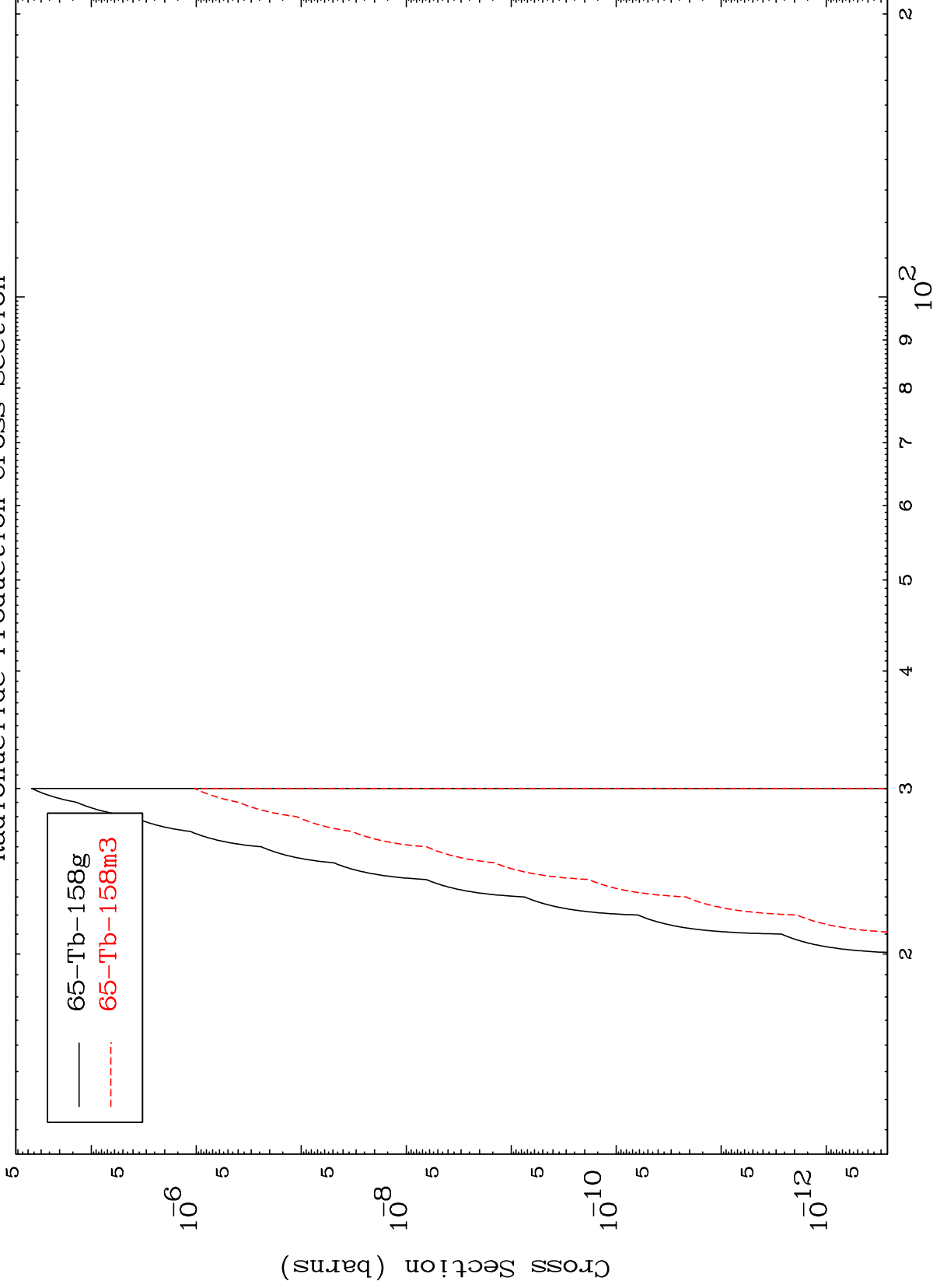
67-Ho-161

MAT 6713

(n,n') He-3

67-Ho-161

Radionuclide Production Cross Section



140

Incident Energy (MeV)

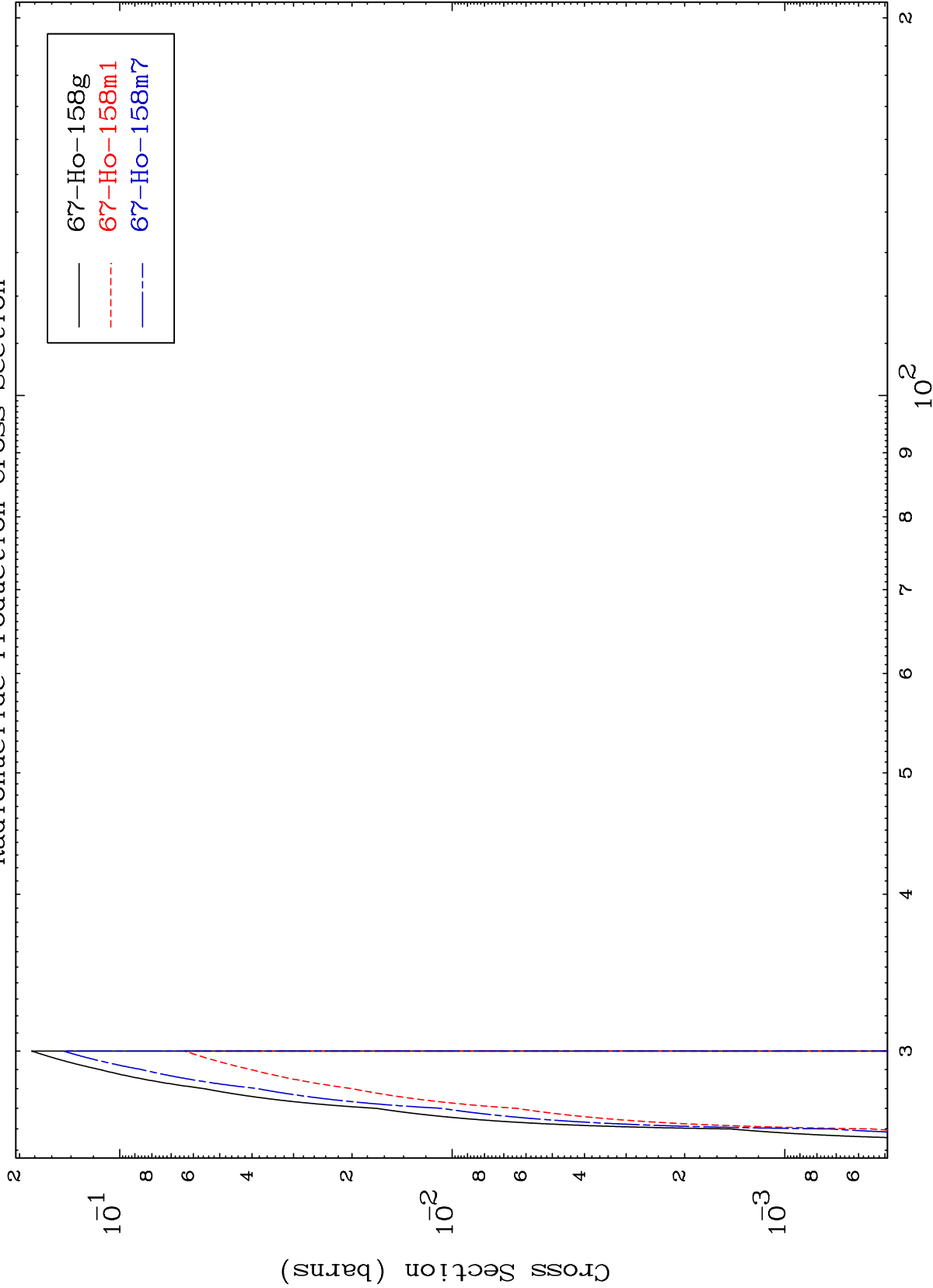
67-Ho-161

MAT 6713

(n,4n)

67-Ho-161

Radionuclide Production Cross Section



141

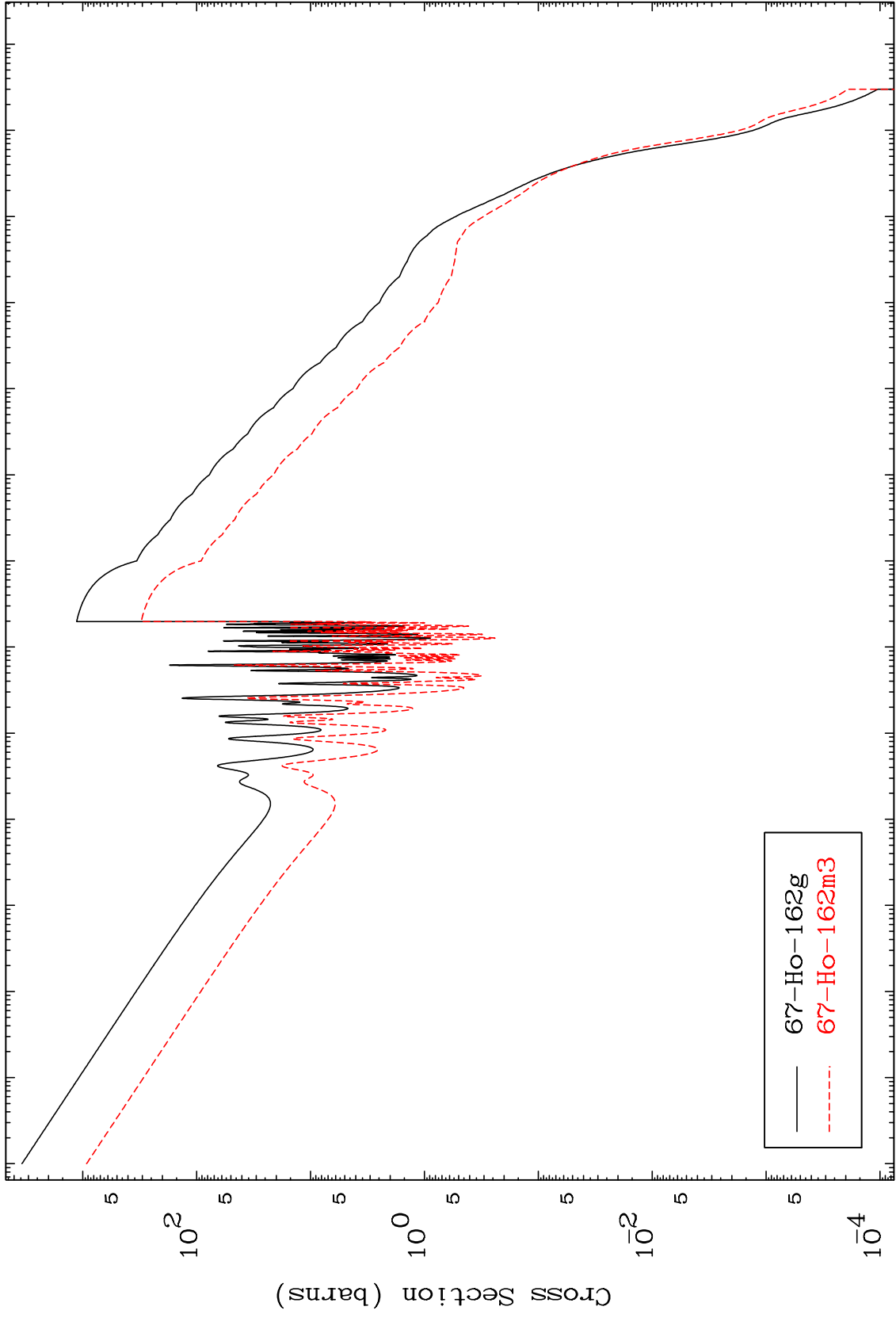
Incident Energy (MeV)

67-Ho-161

MAT 6713

67-Ho-161

Radionuclide Production Cross Section (n,γ)



67-Ho-161

Incident Energy (MeV)

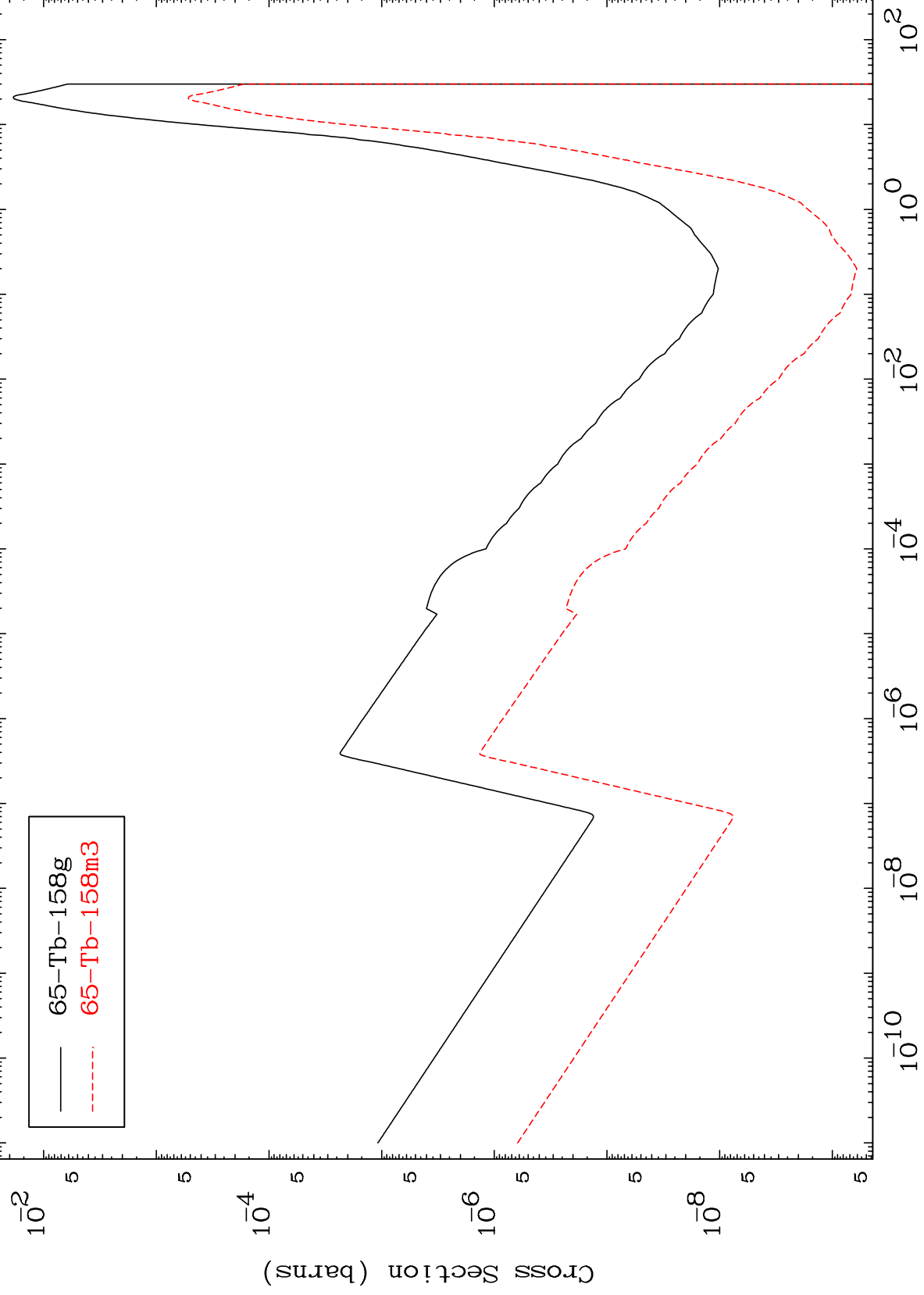
142

MAT 6713

(n, α)

67-Ho-161

Radionuclide Production Cross Section



143

Incident Energy (MeV)

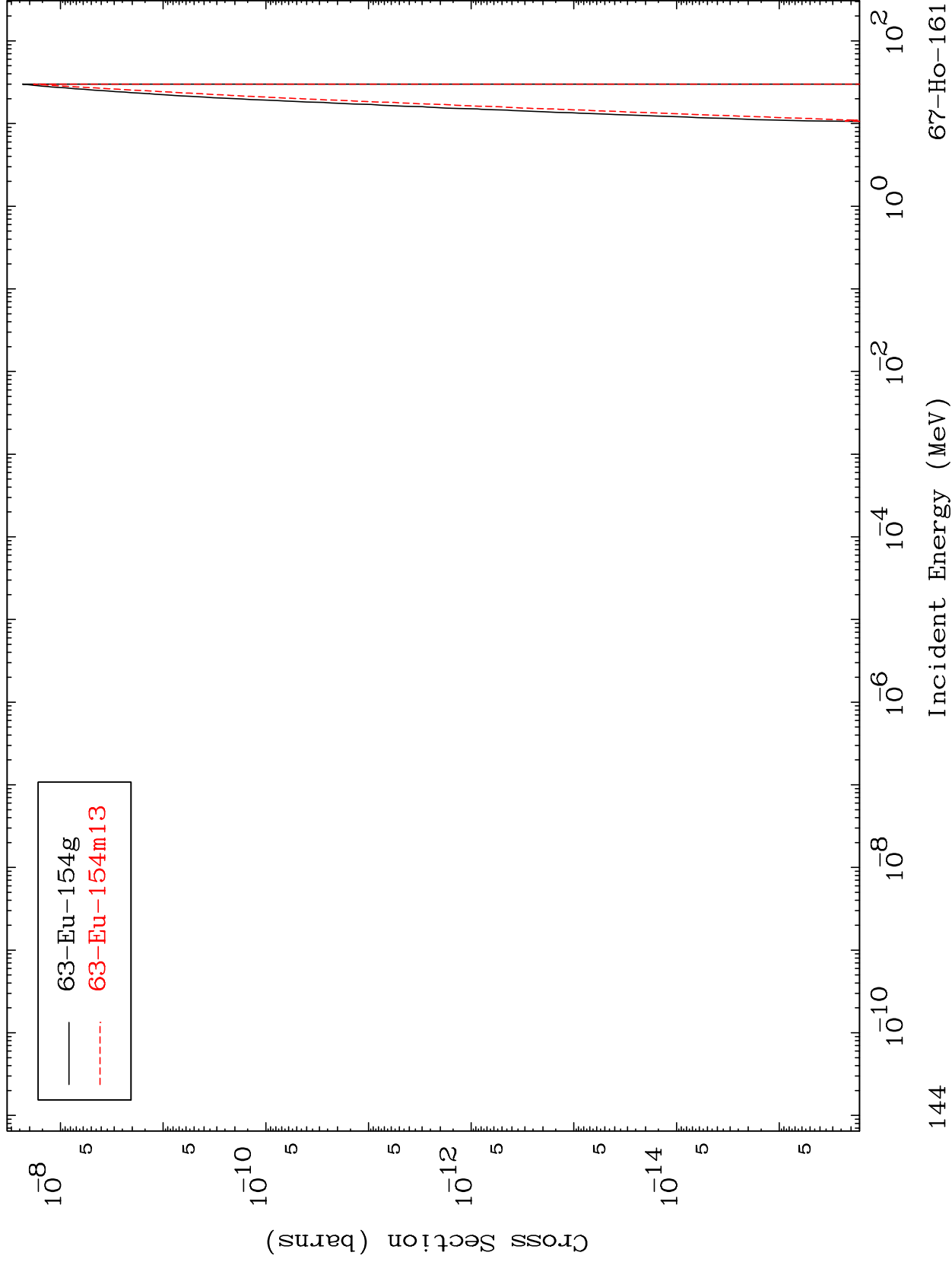
67-Ho-161

MAT 6713

$(n, 2\alpha)$

$^{67}\text{Ho-161}$

Radionuclide Production Cross Section



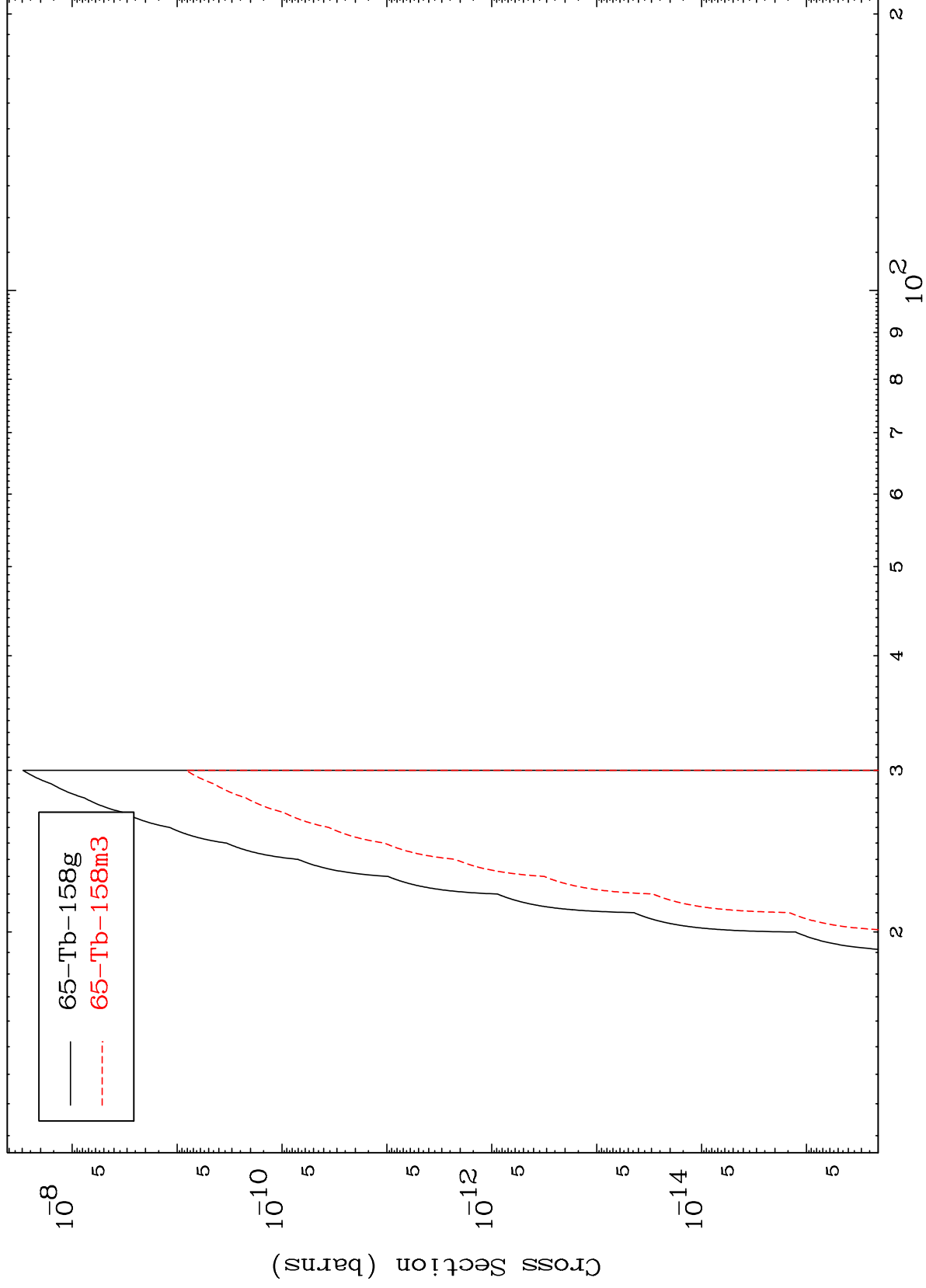
144

MAT 6713

(n,p) t

67-Ho-161

Radionuclide Production Cross Section



145

Incident Energy (MeV)

67-Ho-161