

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
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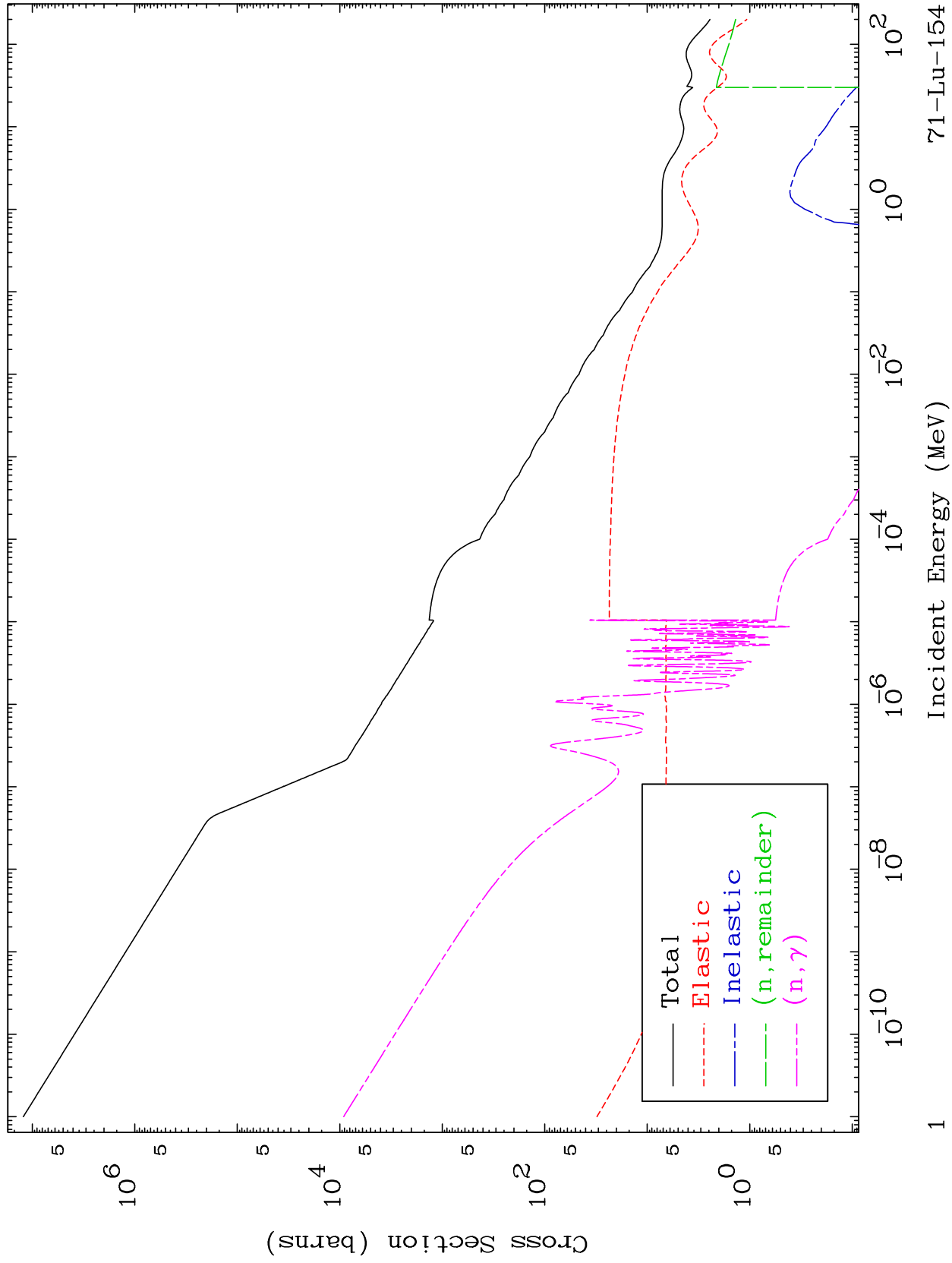
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7062

Major
293 Kelvin Cross Sections

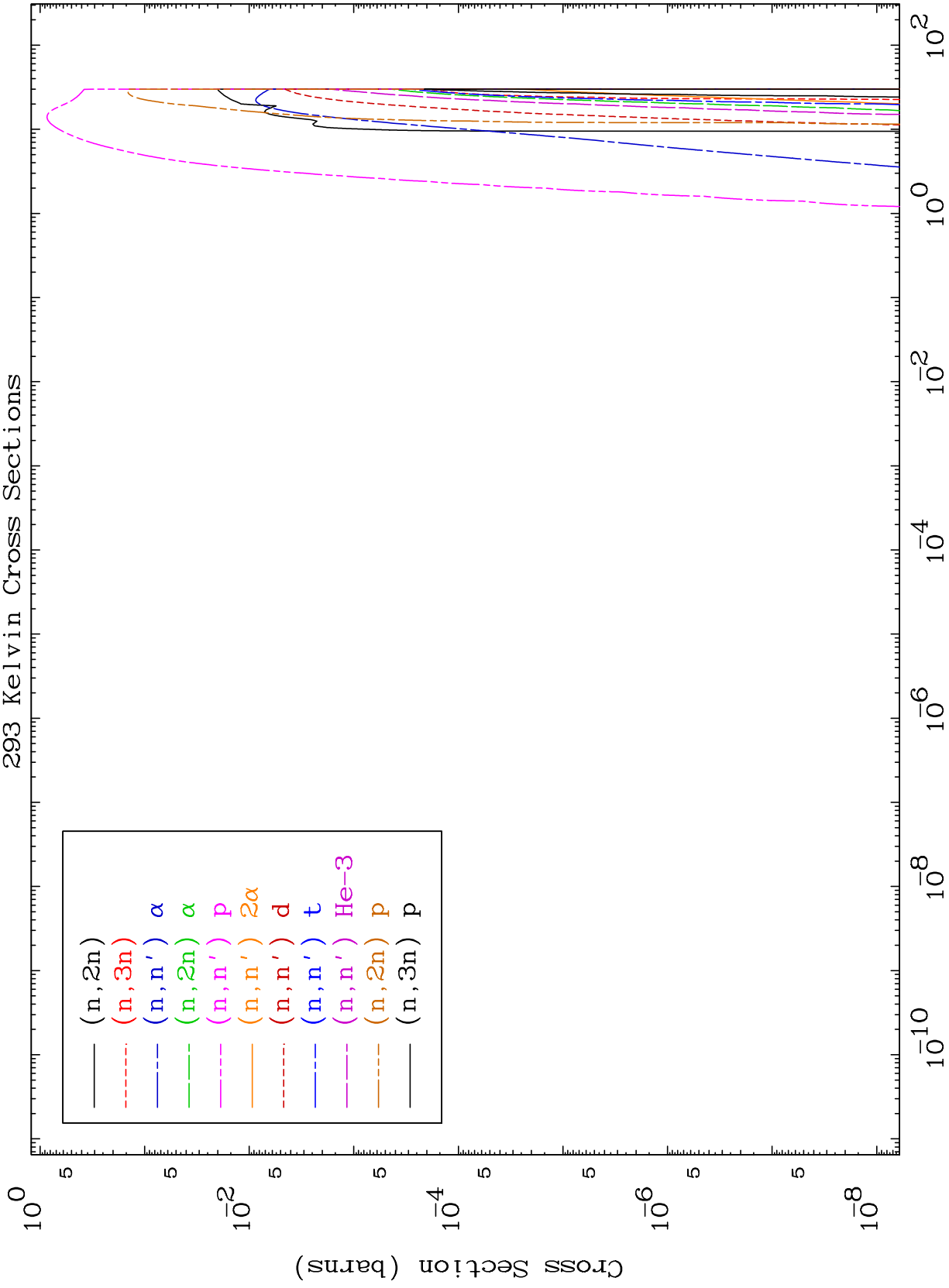
71-Lu-154



MAT 7062

Neutron Production
293 Kelvin Cross Sections

71-Lu-154



2

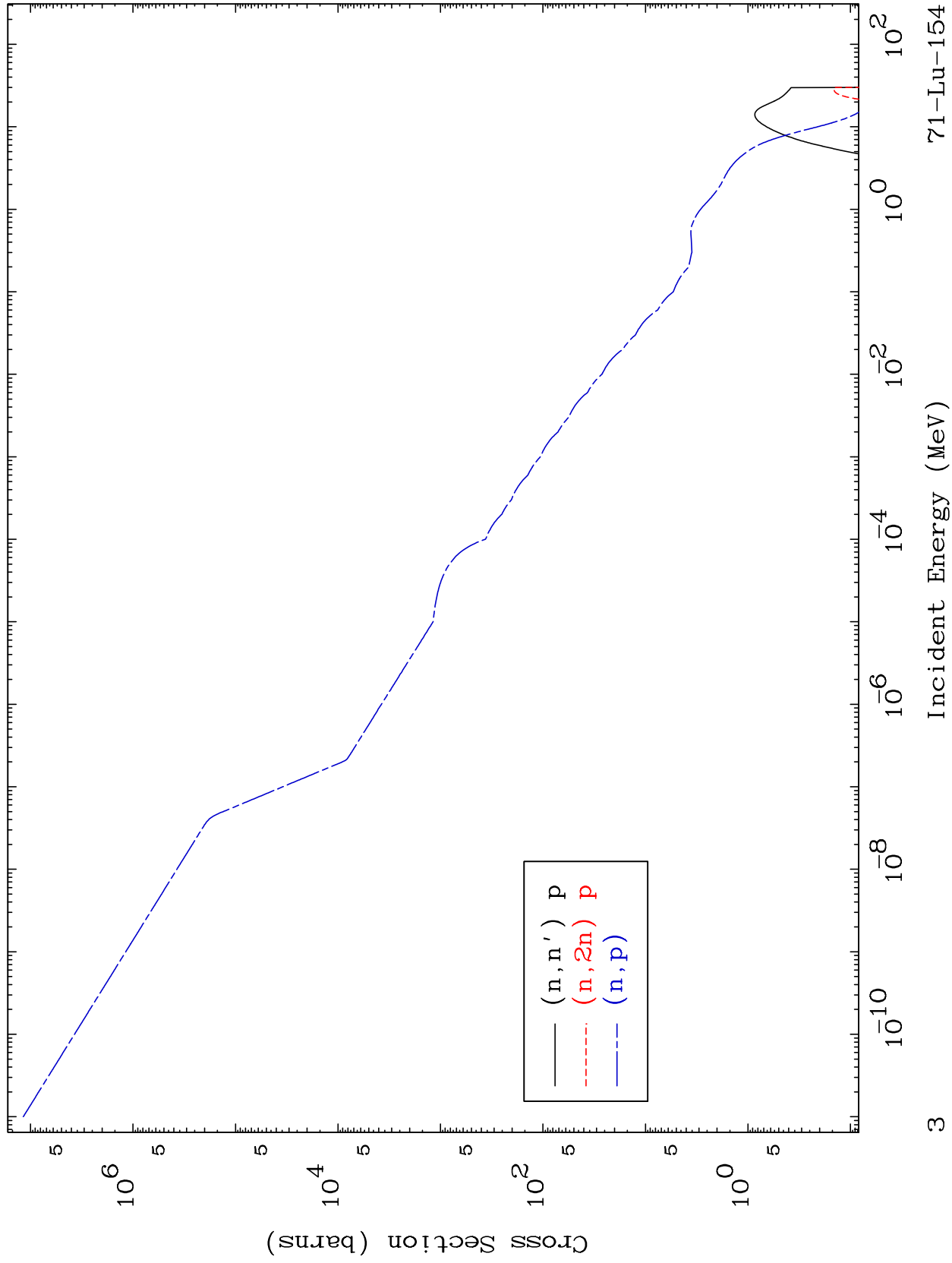
Incident Energy (MeV)

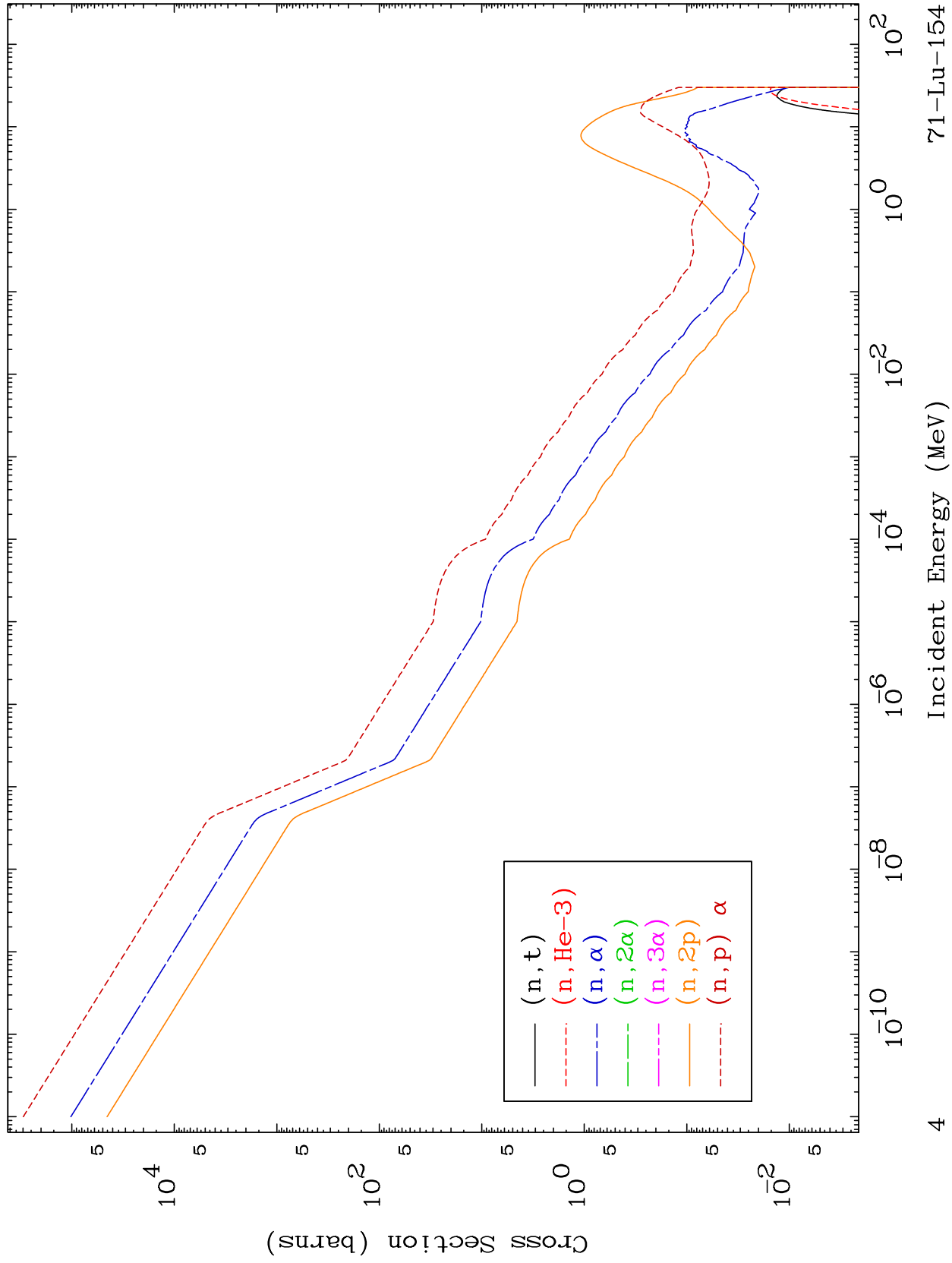
71-Lu-154

MAT 7062

Charged Particle
293 Kelvin Cross Sections

71-Lu-154

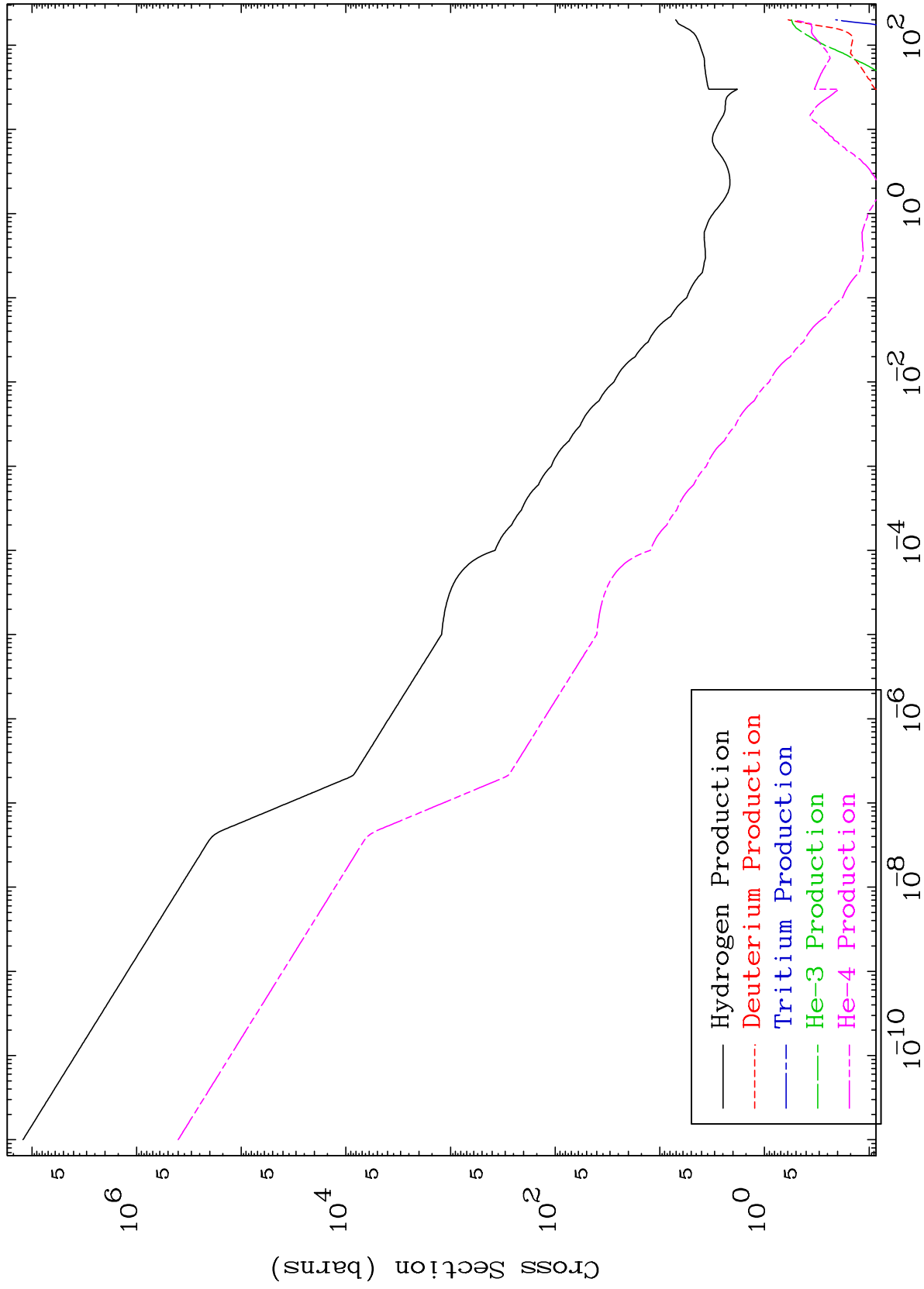




MAT 7062

Particle Production
293 Kelvin Cross Sections

71-Lu-154



5

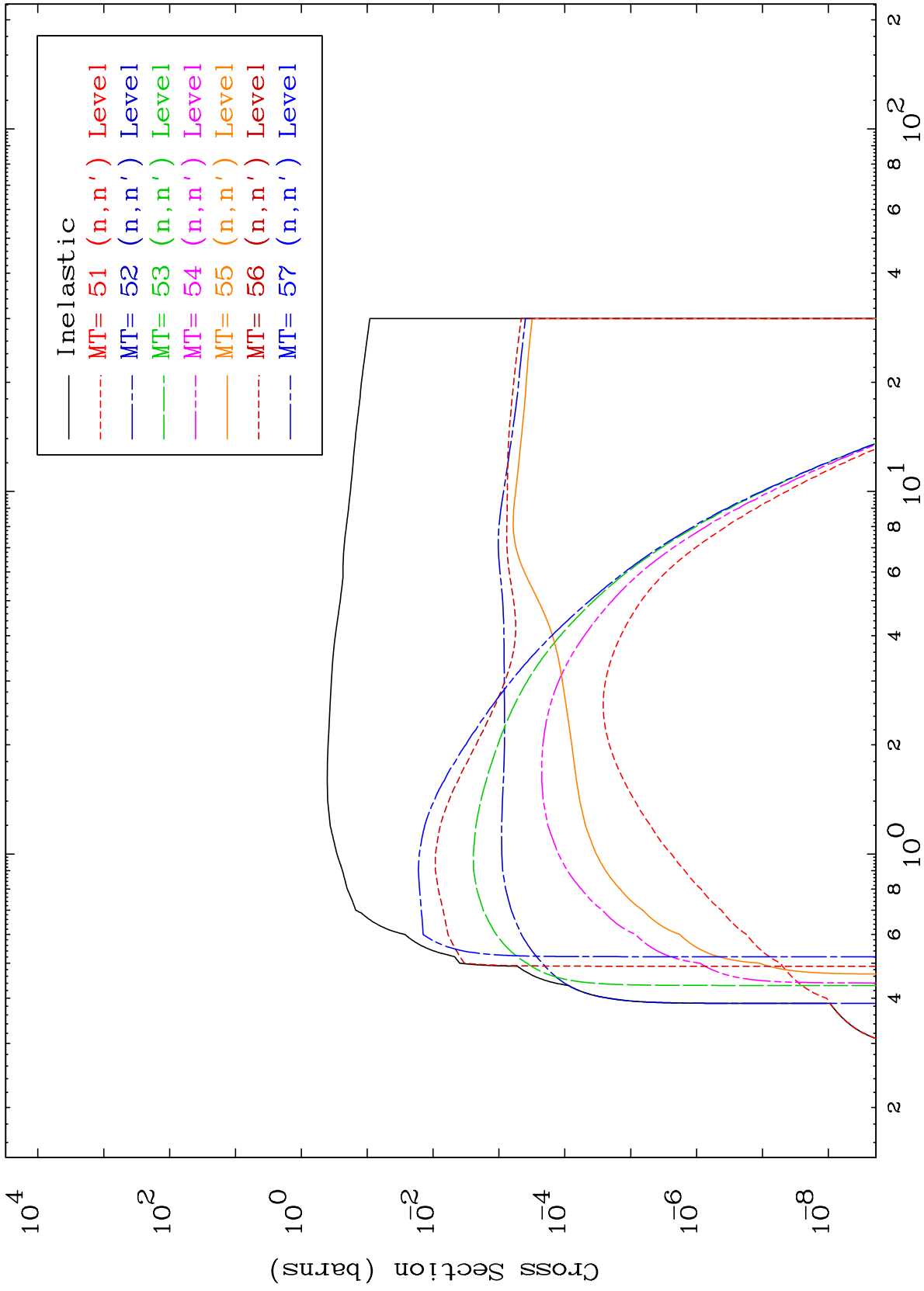
Incident Energy (MeV)

71-Lu-154

MAT 7062

(n,n') Level
293 Kelvin Cross Sections

71-Lu-154



6

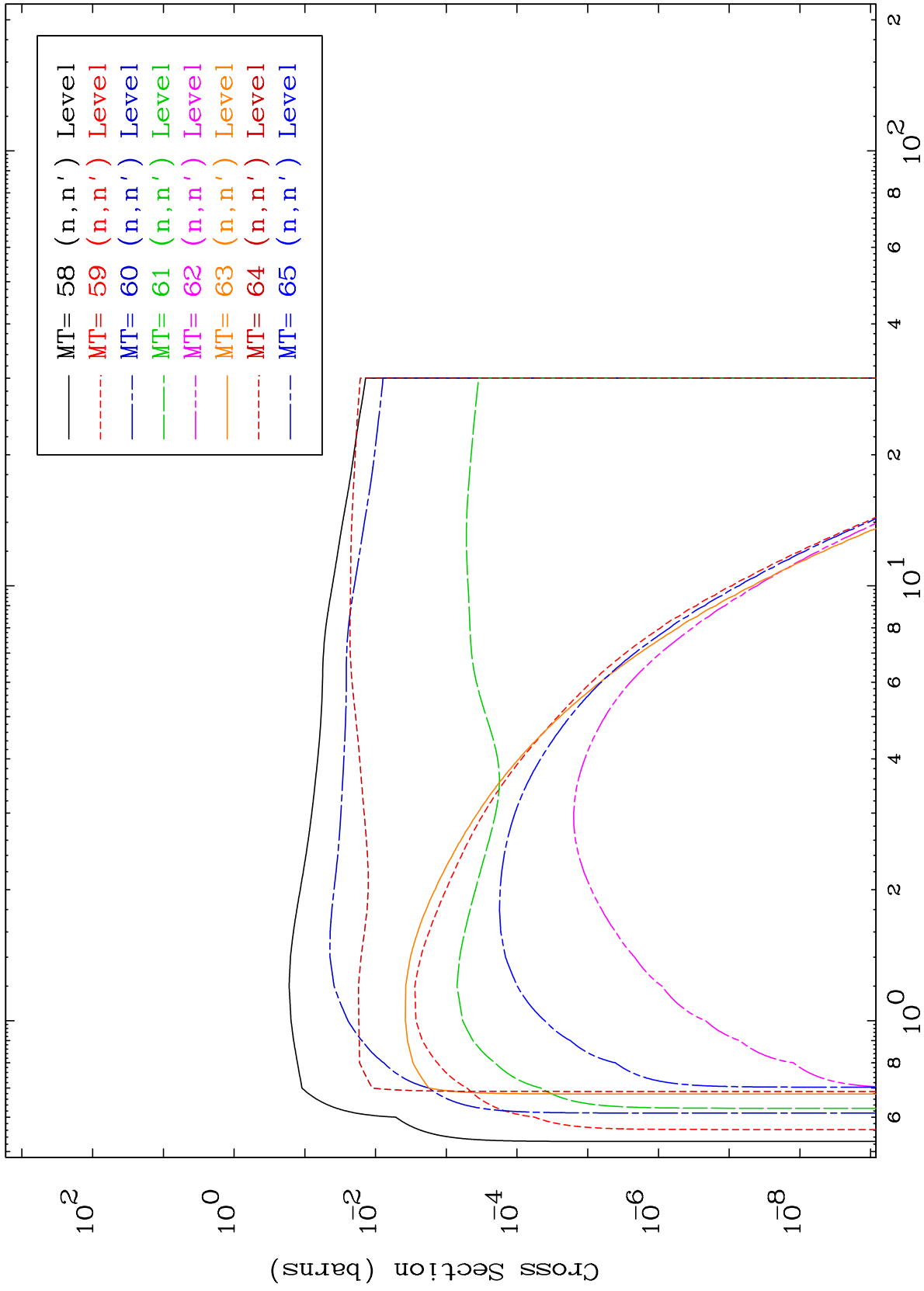
Incident Energy (MeV)

71-Lu-154

MAT 7062

(n,n') Level
293 Kelvin Cross Sections

71-Lu-154



7

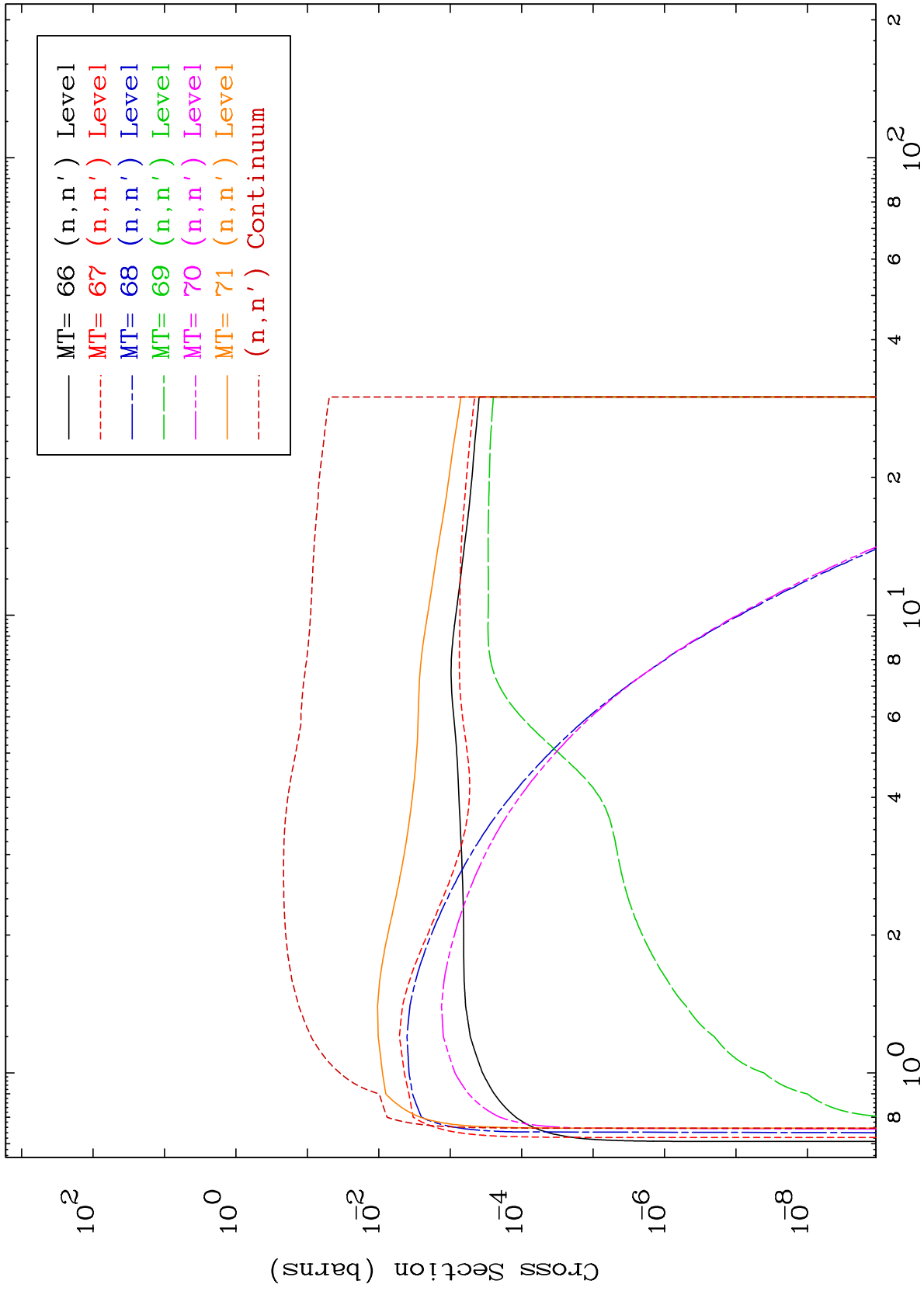
Incident Energy (MeV)

71-Lu-154

MAT 7062

(n,n') Level
293 Kelvin Cross Sections

71-Lu-154



8

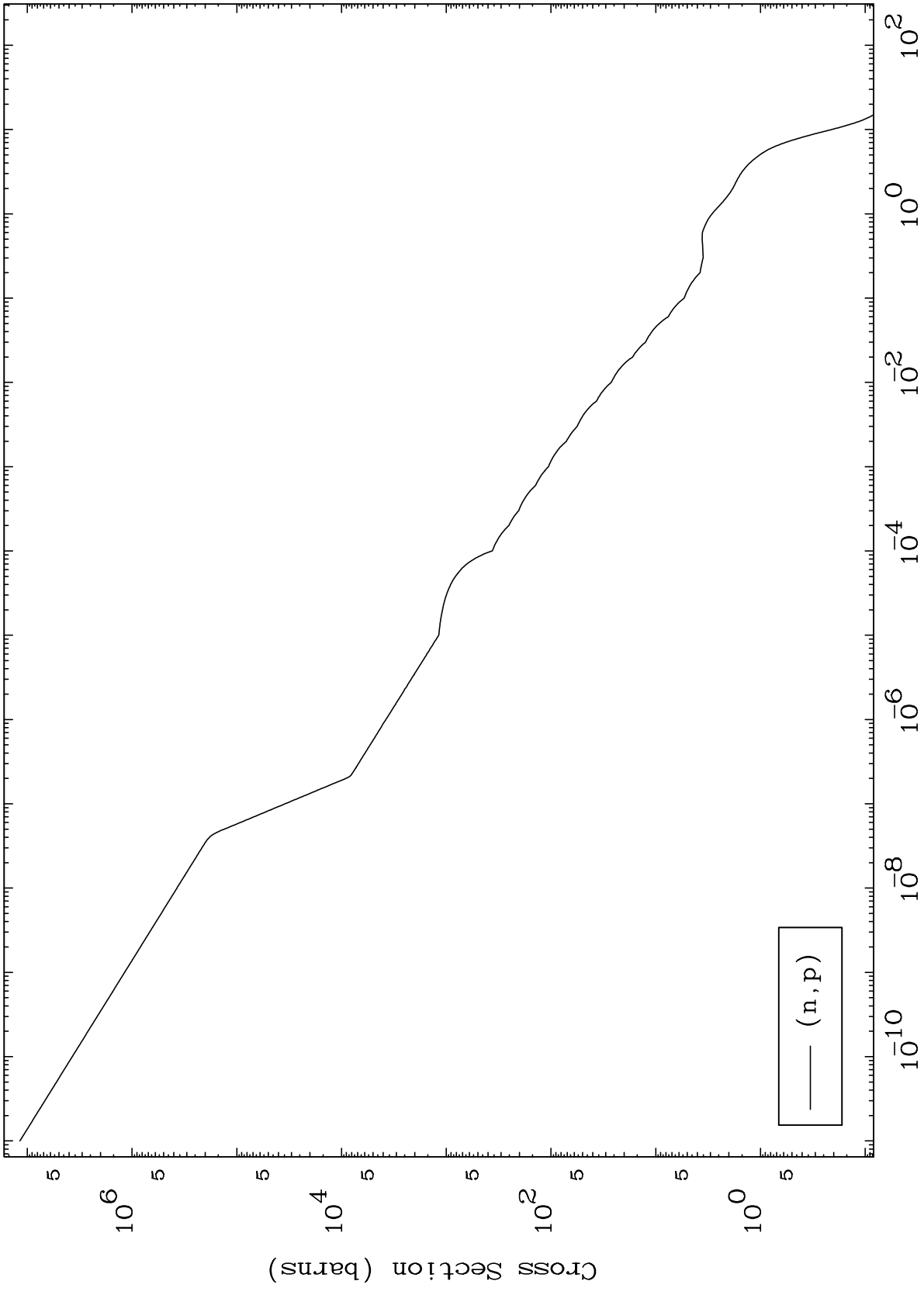
Incident Energy (MeV)

71-Lu-154

MAT 7062

(n,p) Levels
293 Kelvin Cross Sections

71-Lu-154

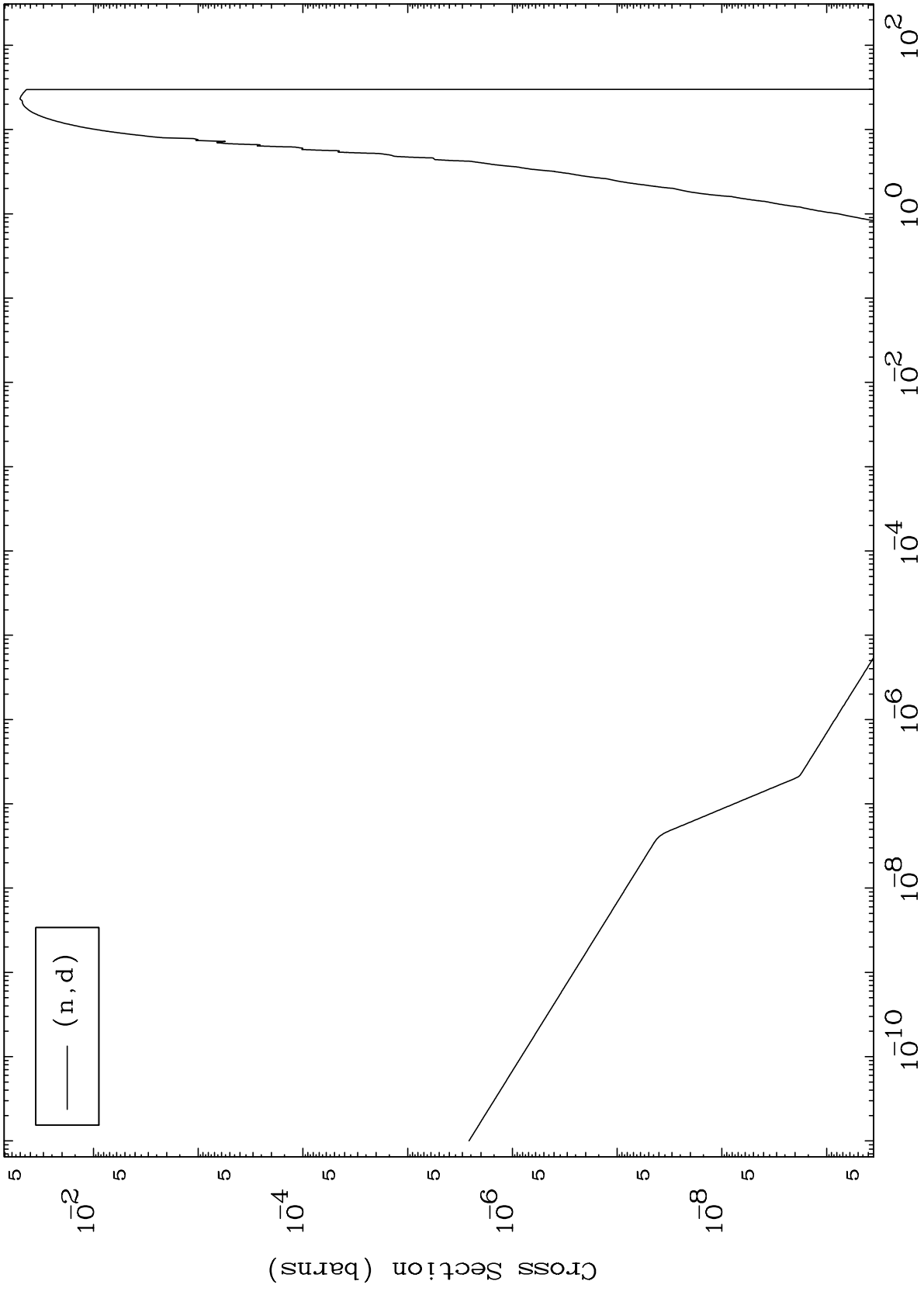


— (n, p)

MAT 7062

(n,d) Levels
293 Kelvin Cross Sections

71-Lu-154



10

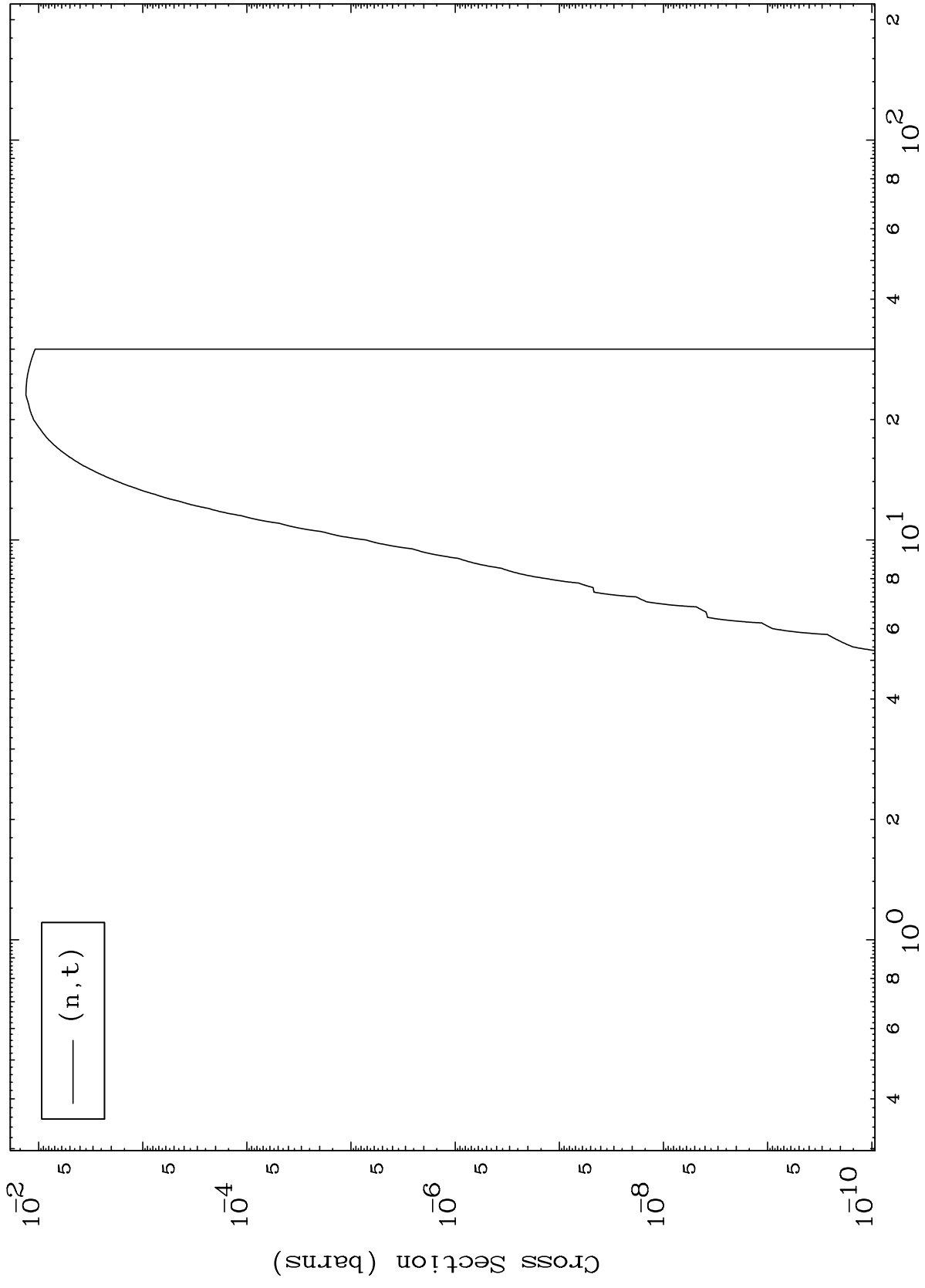
Incident Energy (MeV)

71-Lu-154

MAT 7062

(n,t) Levels
293 Kelvin Cross Sections

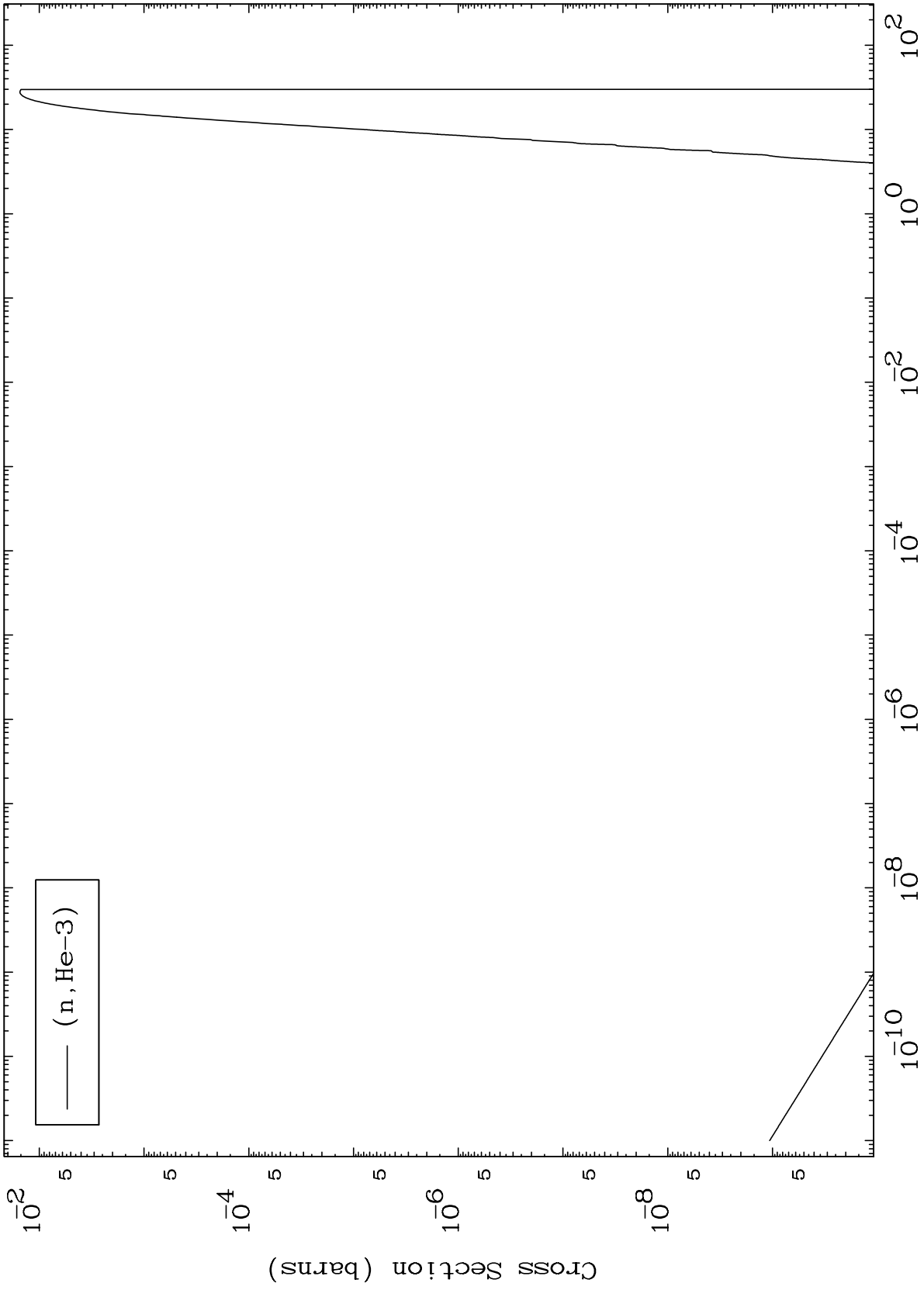
71-Lu-154



MAT 7062

(n,He3) Levels
293 Kelvin Cross Sections

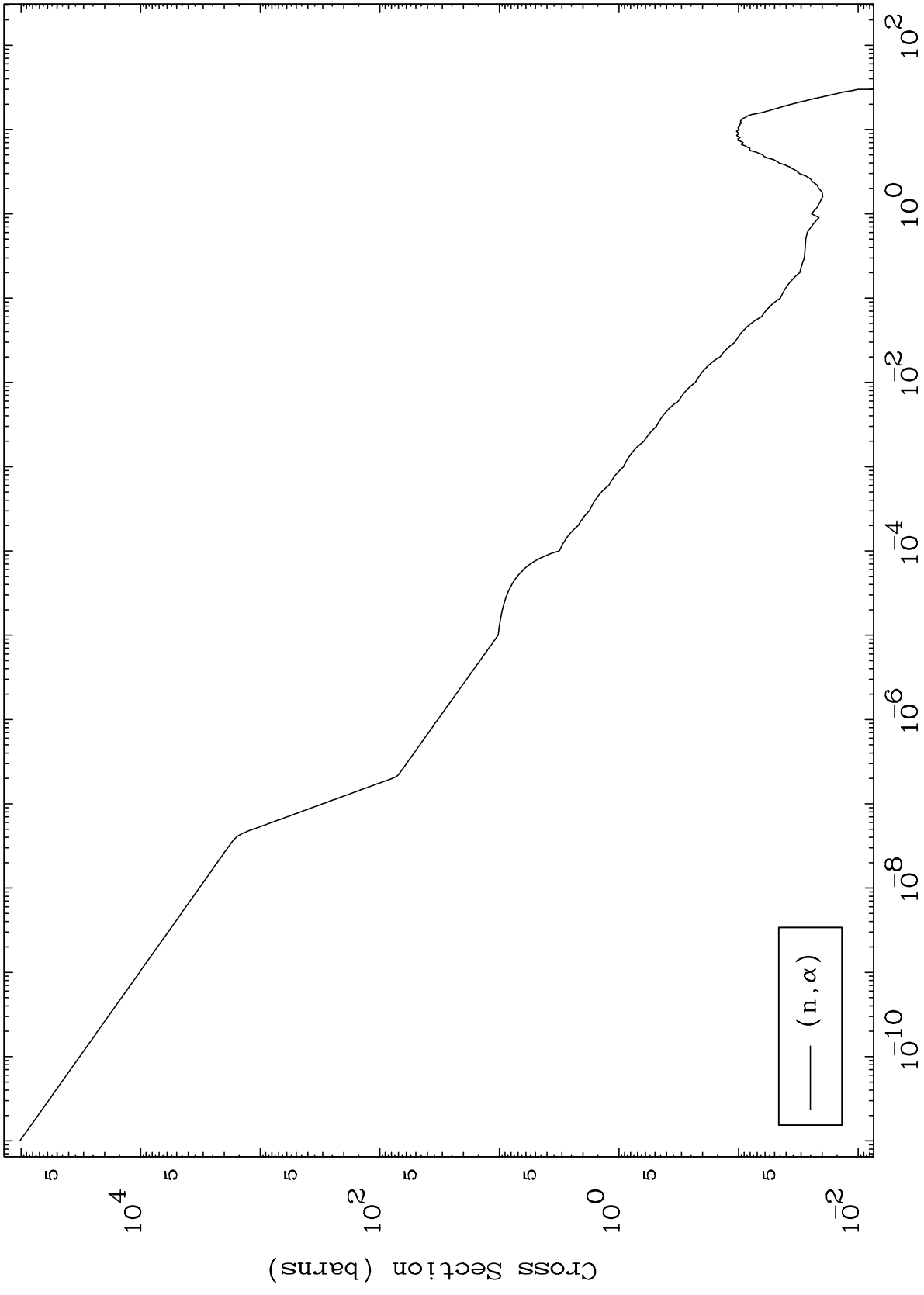
71-Lu-154



MAT 7062

(n, α) Levels
293 Kelvin Cross Sections

71-Lu-154



13

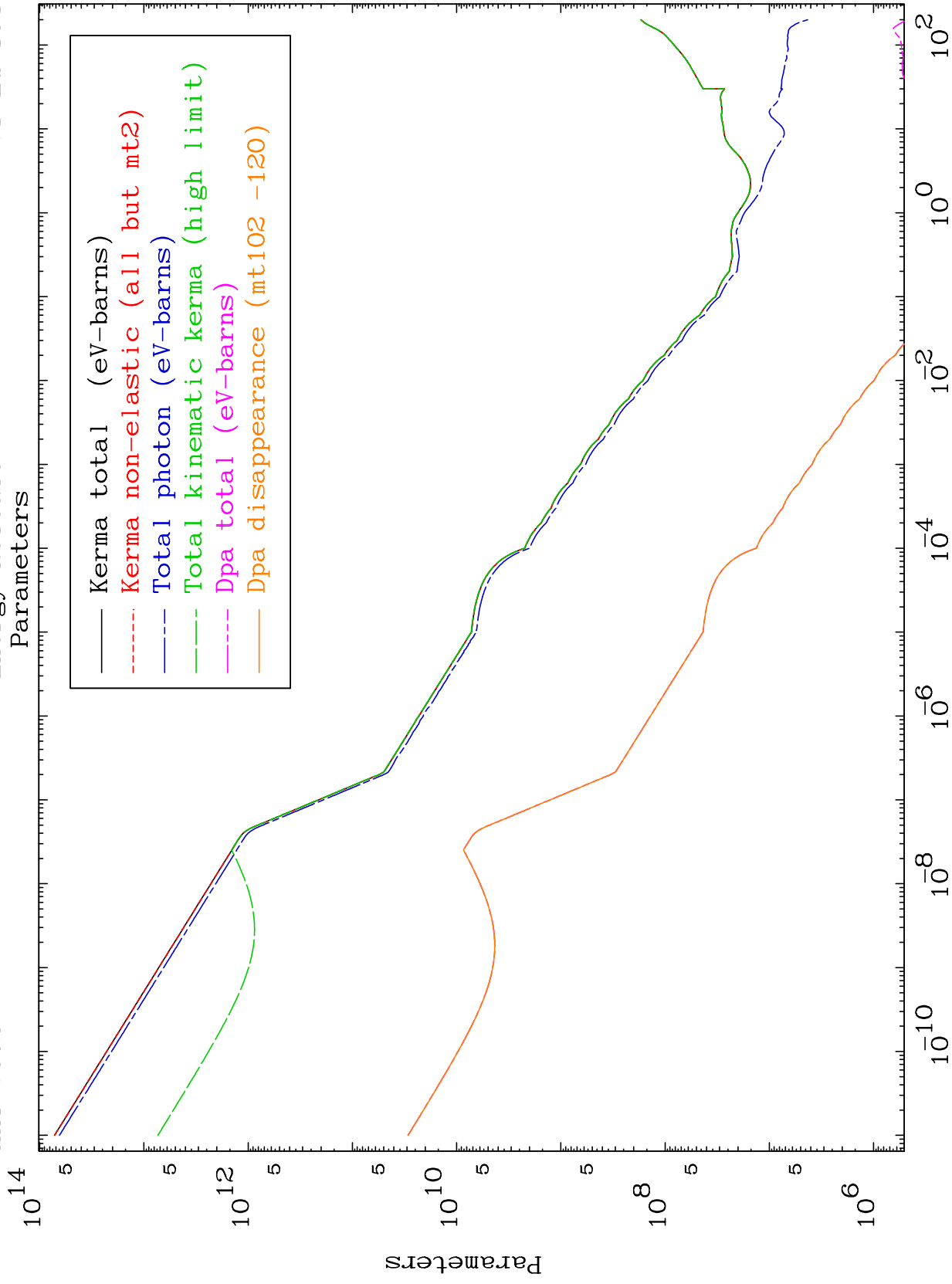
Incident Energy (MeV)

71-Lu-154

MAT 7062

Energy Release
Parameters

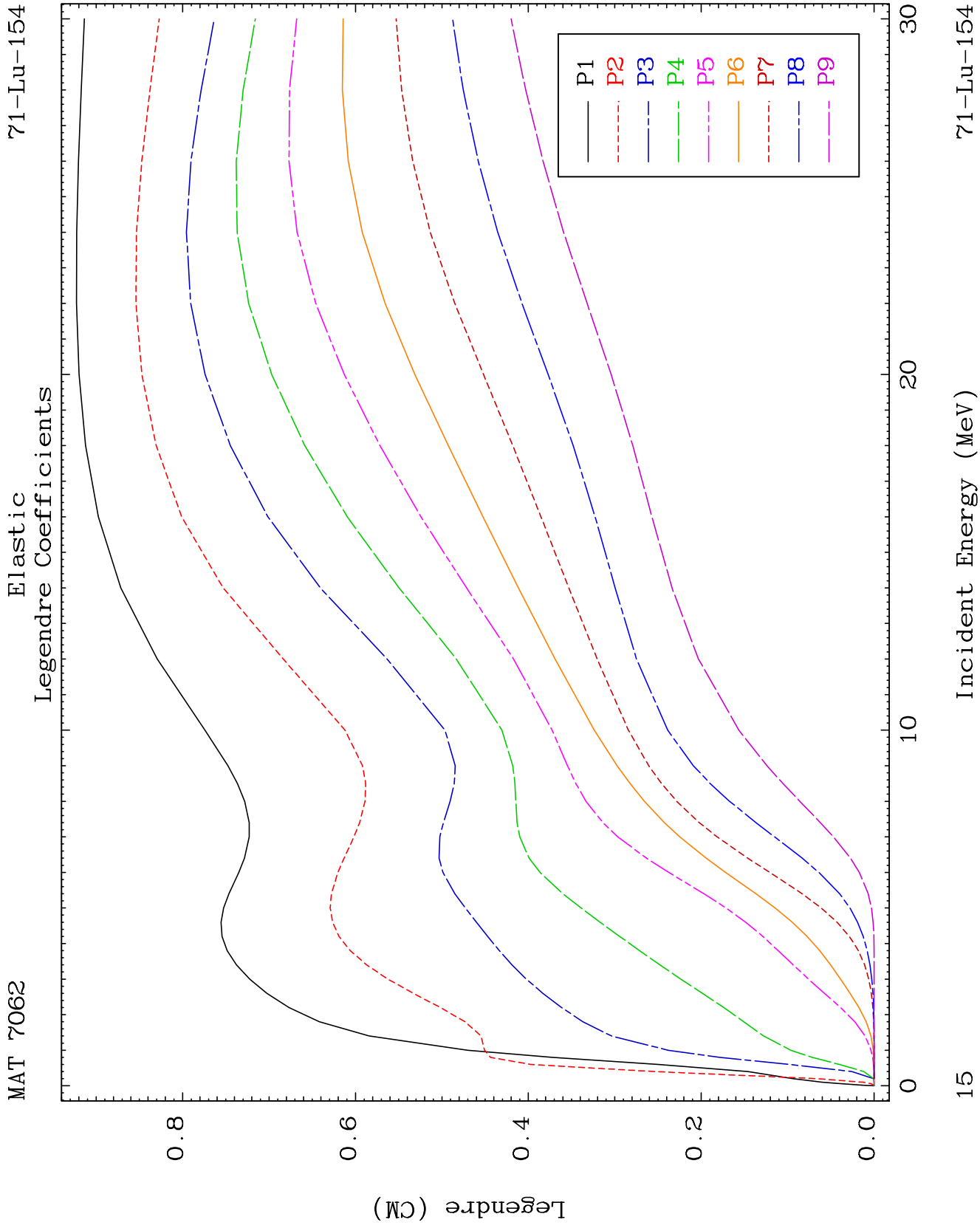
71-Lu-154



14

Incident Energy (MeV)

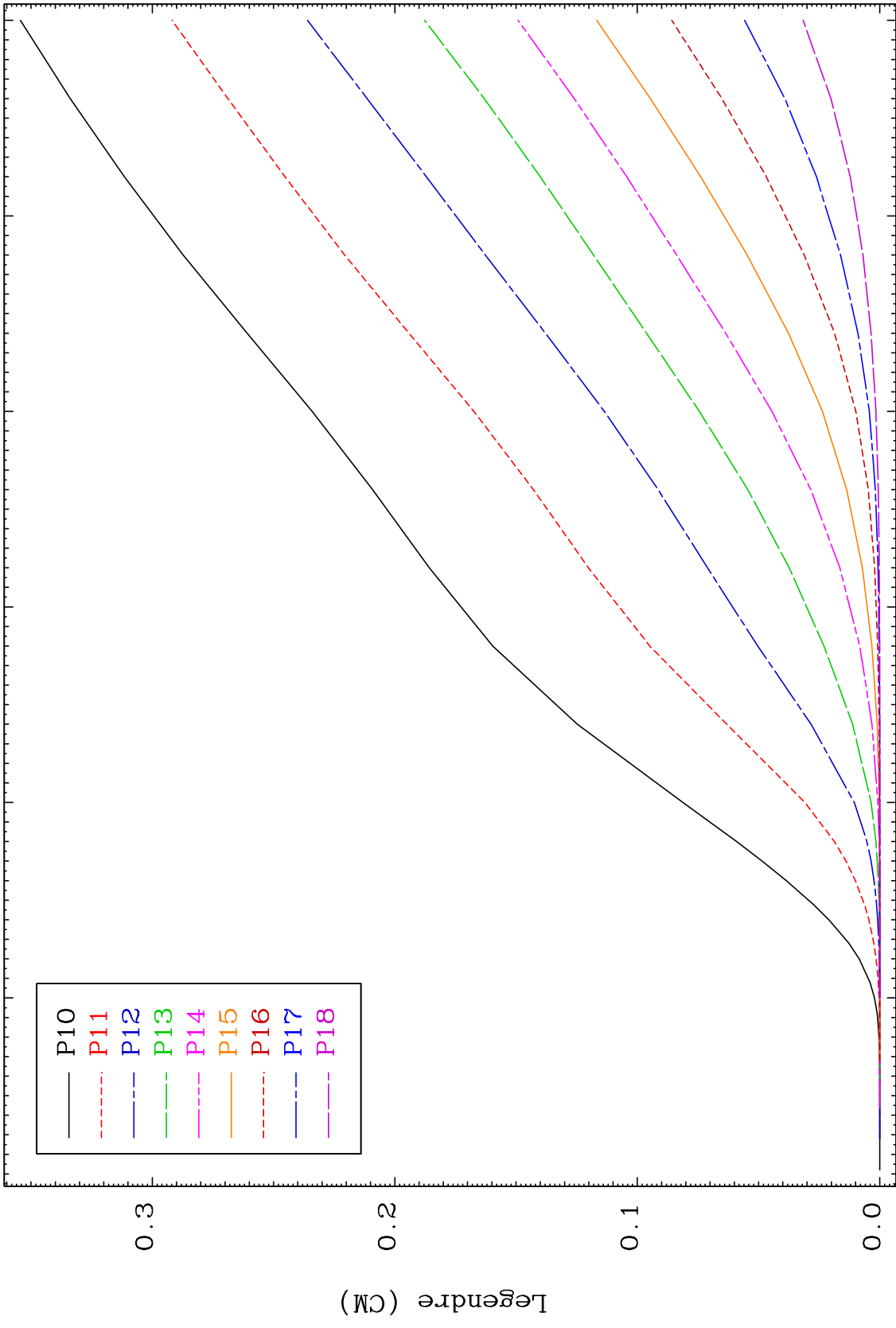
71-Lu-154



MAT 7062

Elastic Legendre Coefficients

⁷¹Lu-154



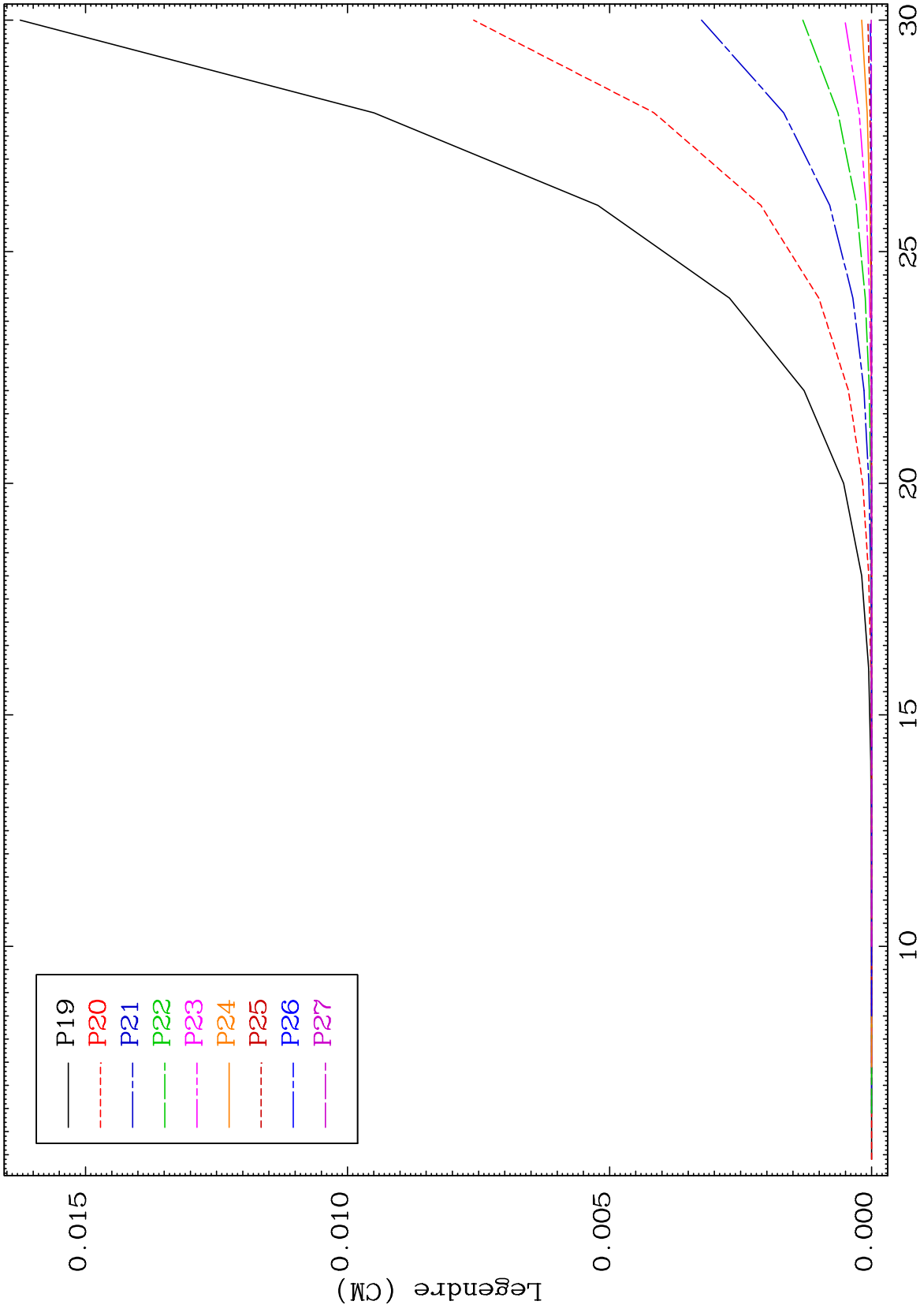
16

⁷¹Lu-154

MAT 7062

Elastic Legendre Coefficients

71-Lu-154



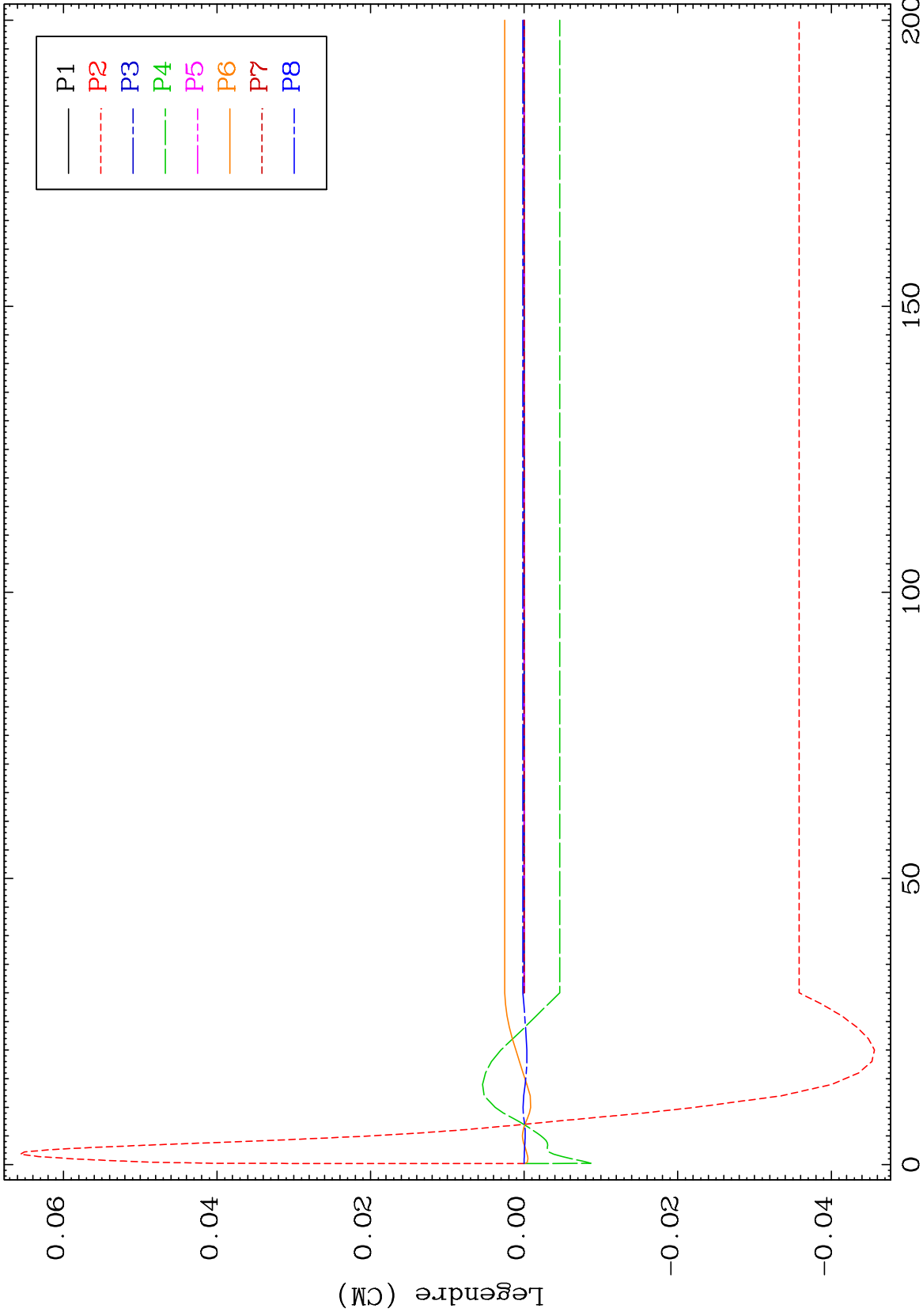
17

71-Lu-154

MAT 7062

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

71-Lu-154



19

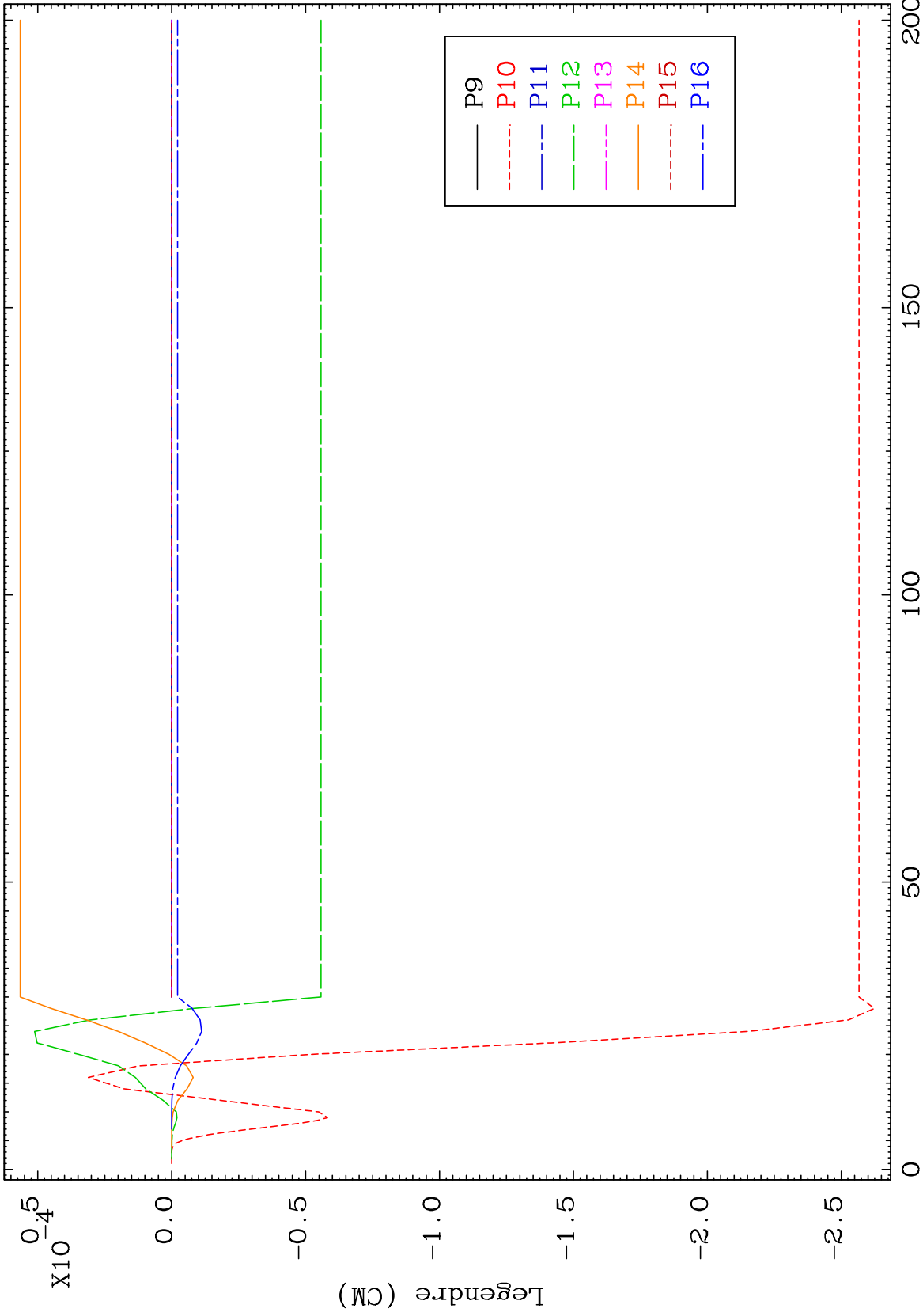
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



20

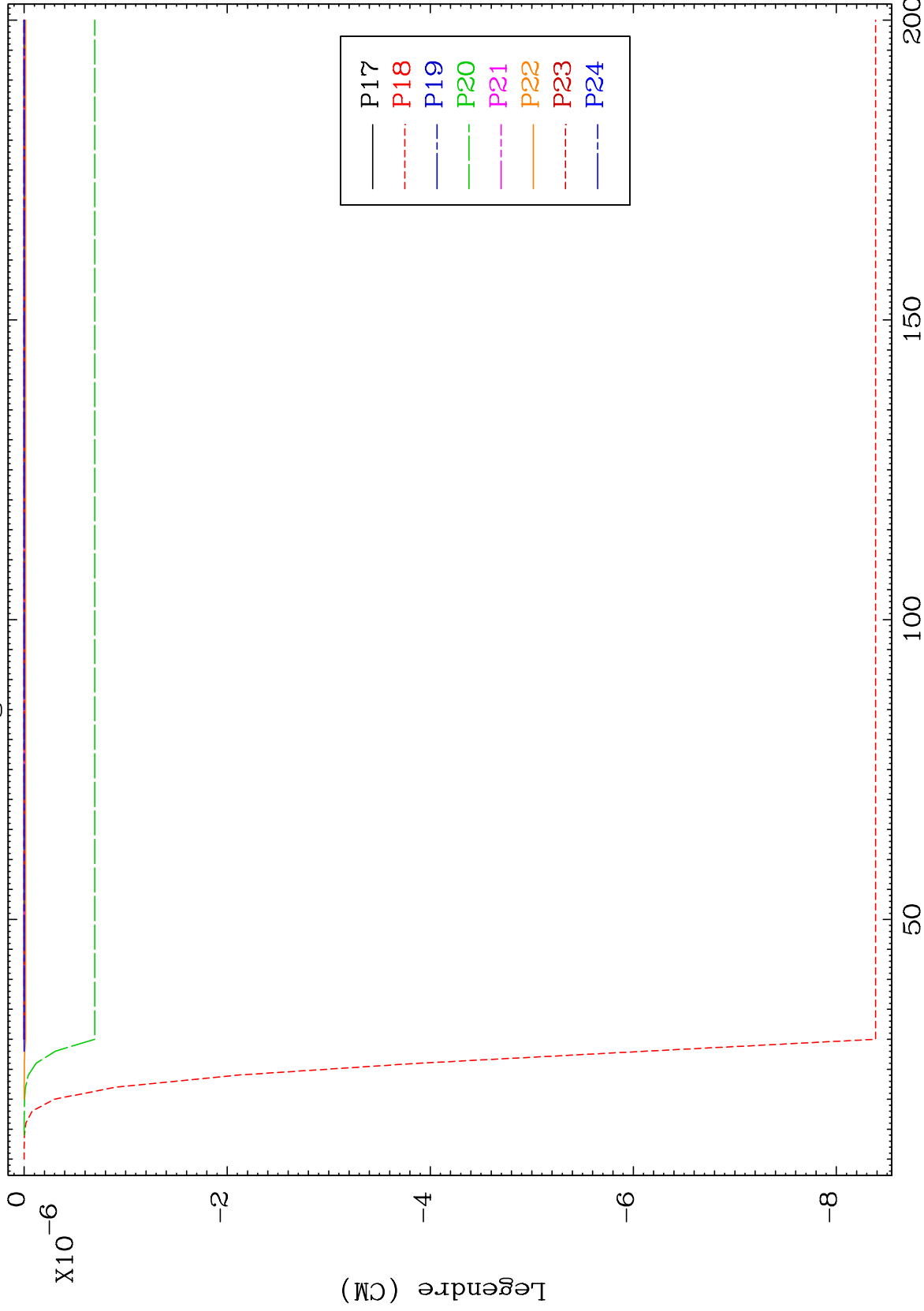
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



21

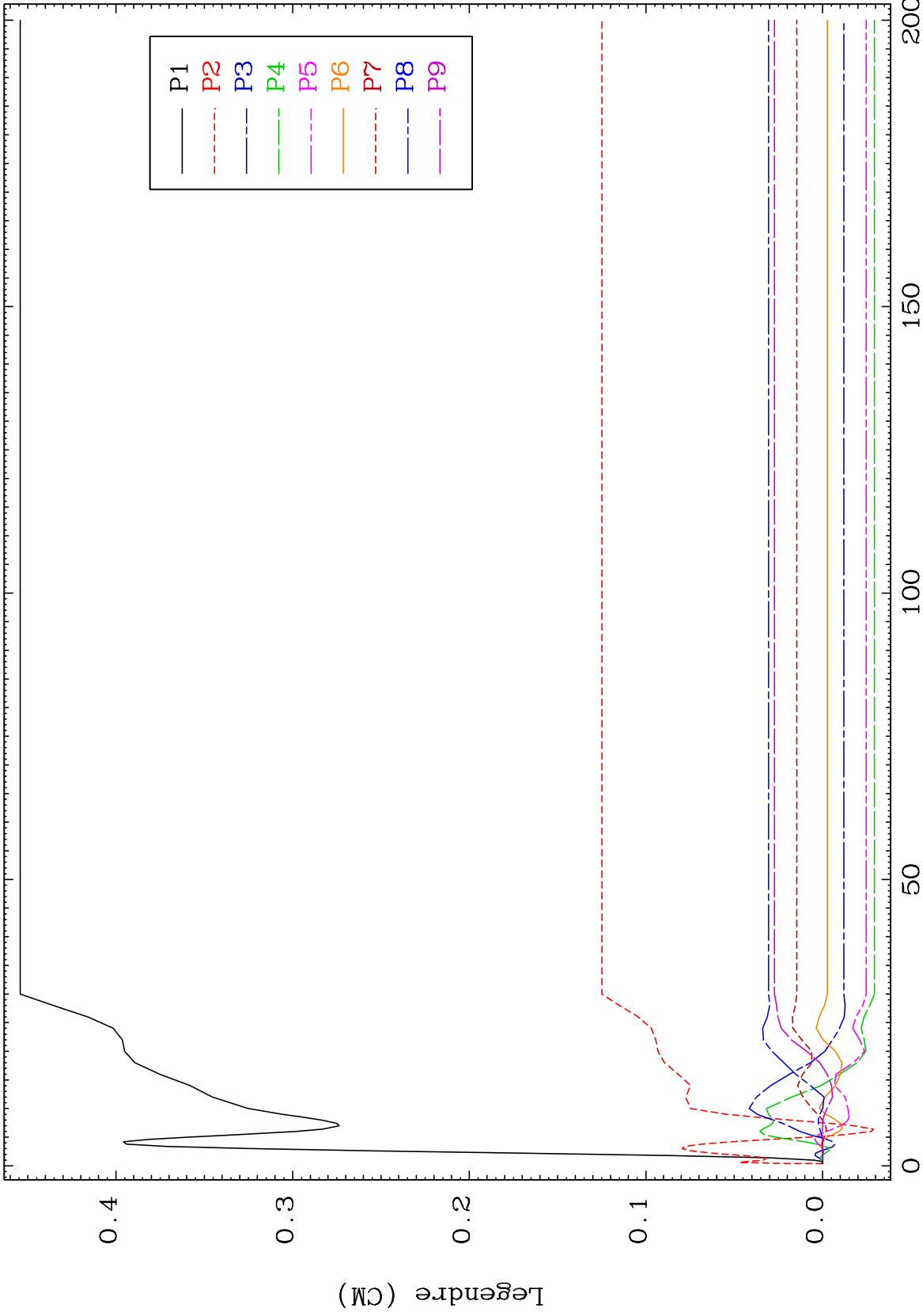
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



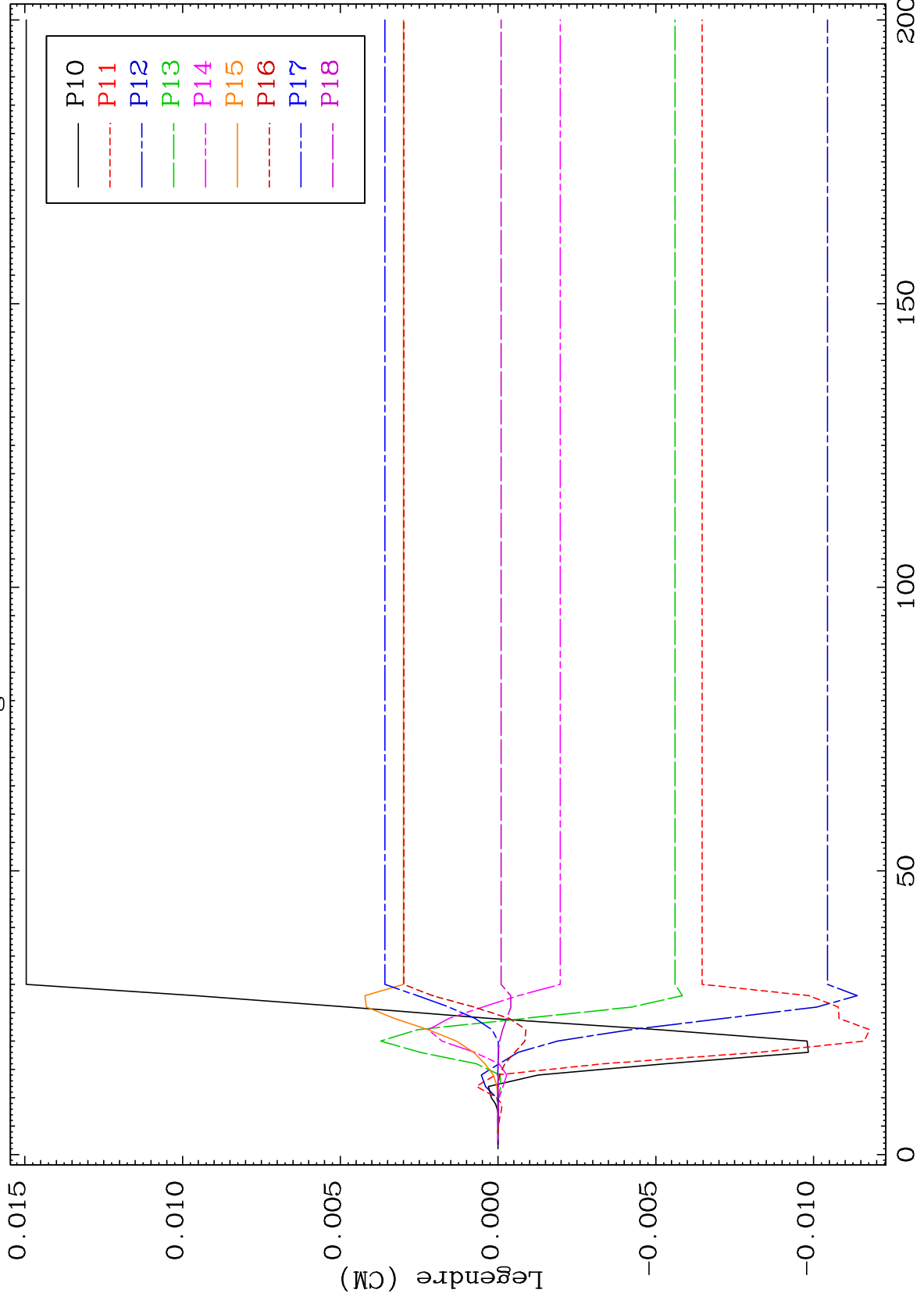
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71-Lu-154

MAT 7062

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

71-Lu-154



23

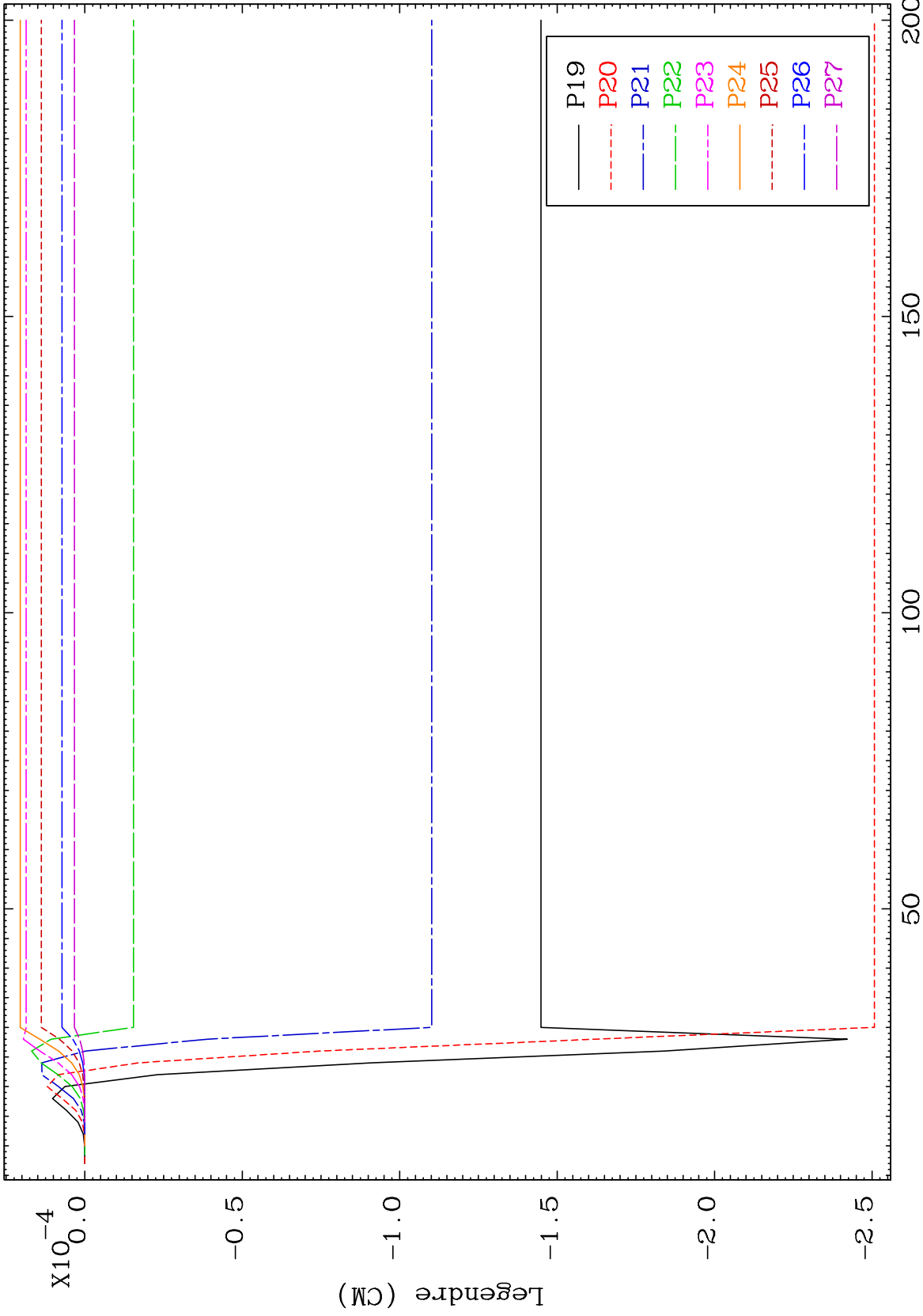
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



24

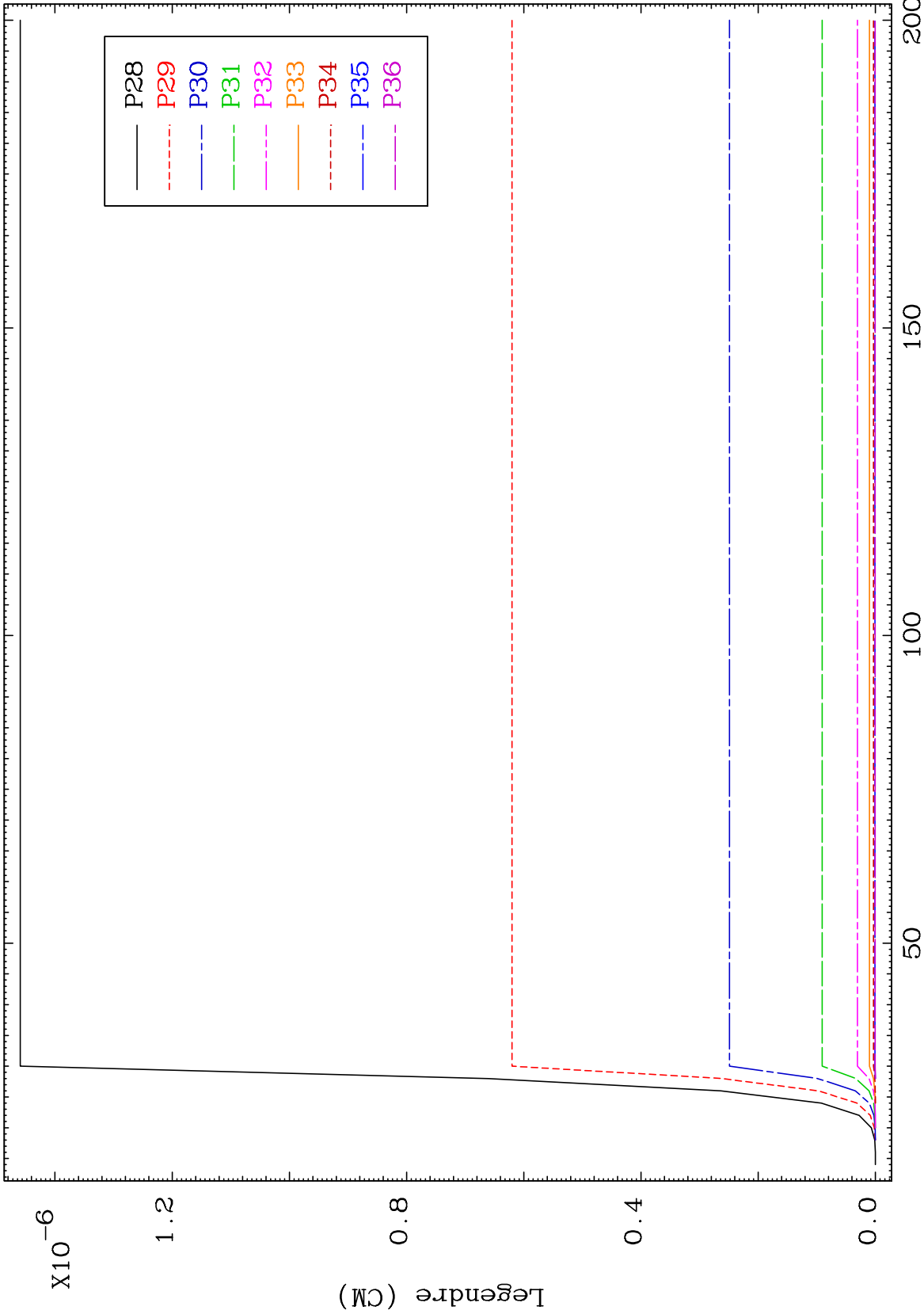
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154

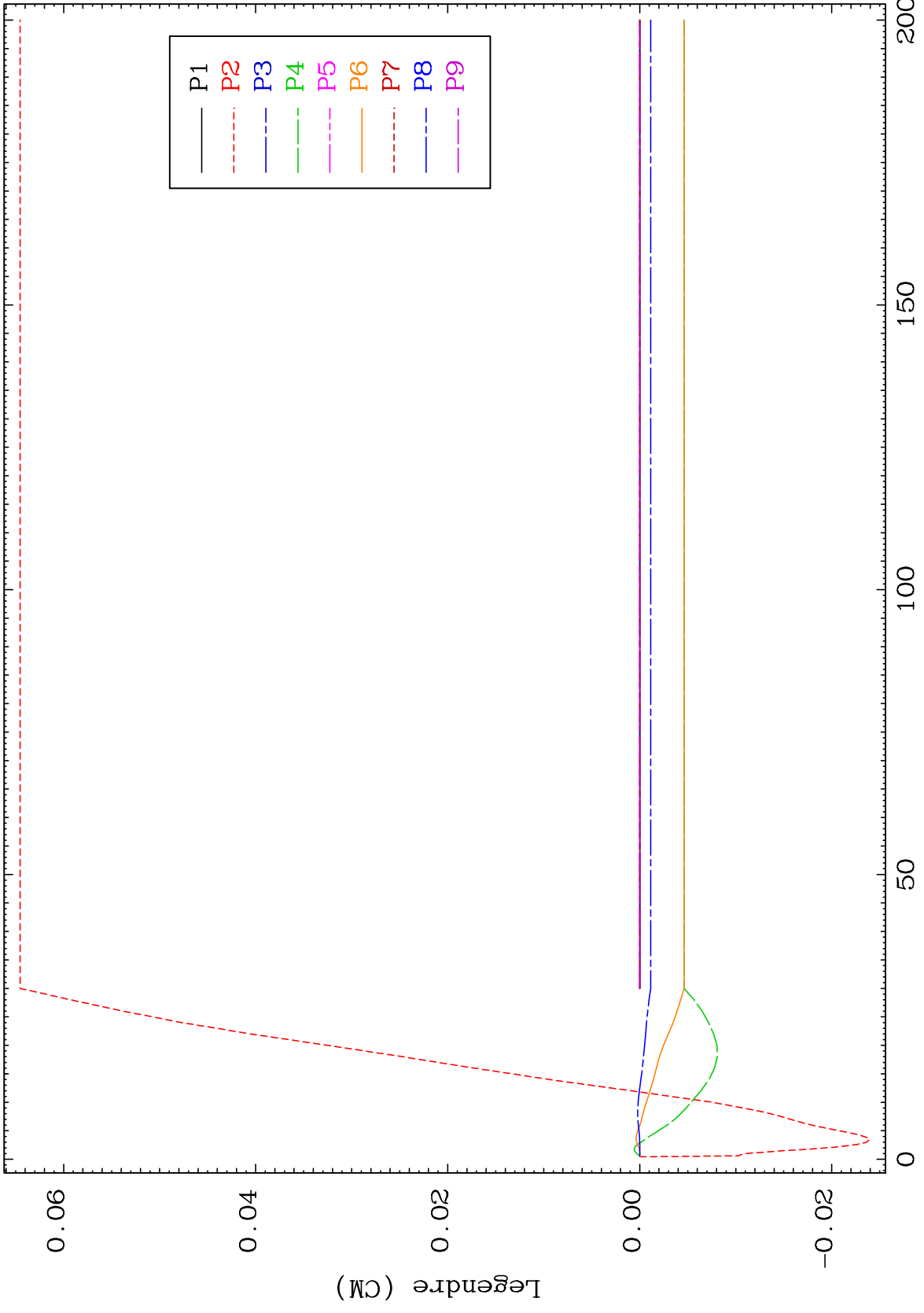


25

Incident Energy (MeV)

71-Lu-154

MAT 7062 MT= 53 (n,n') Level Legendre Coefficients 71-Lu-154

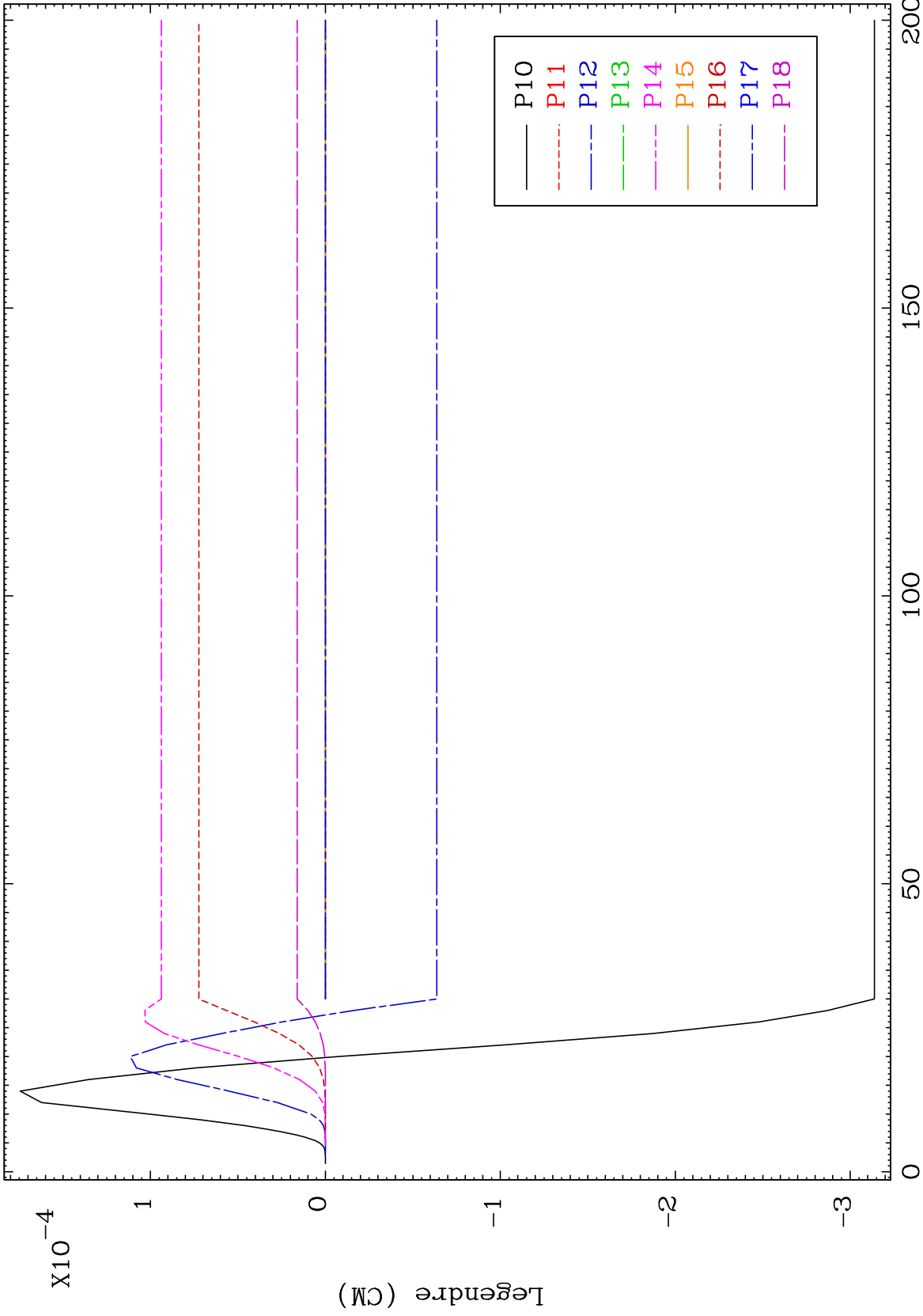


26 71-Lu-154

MAT 7062

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

71-Lu-154



27

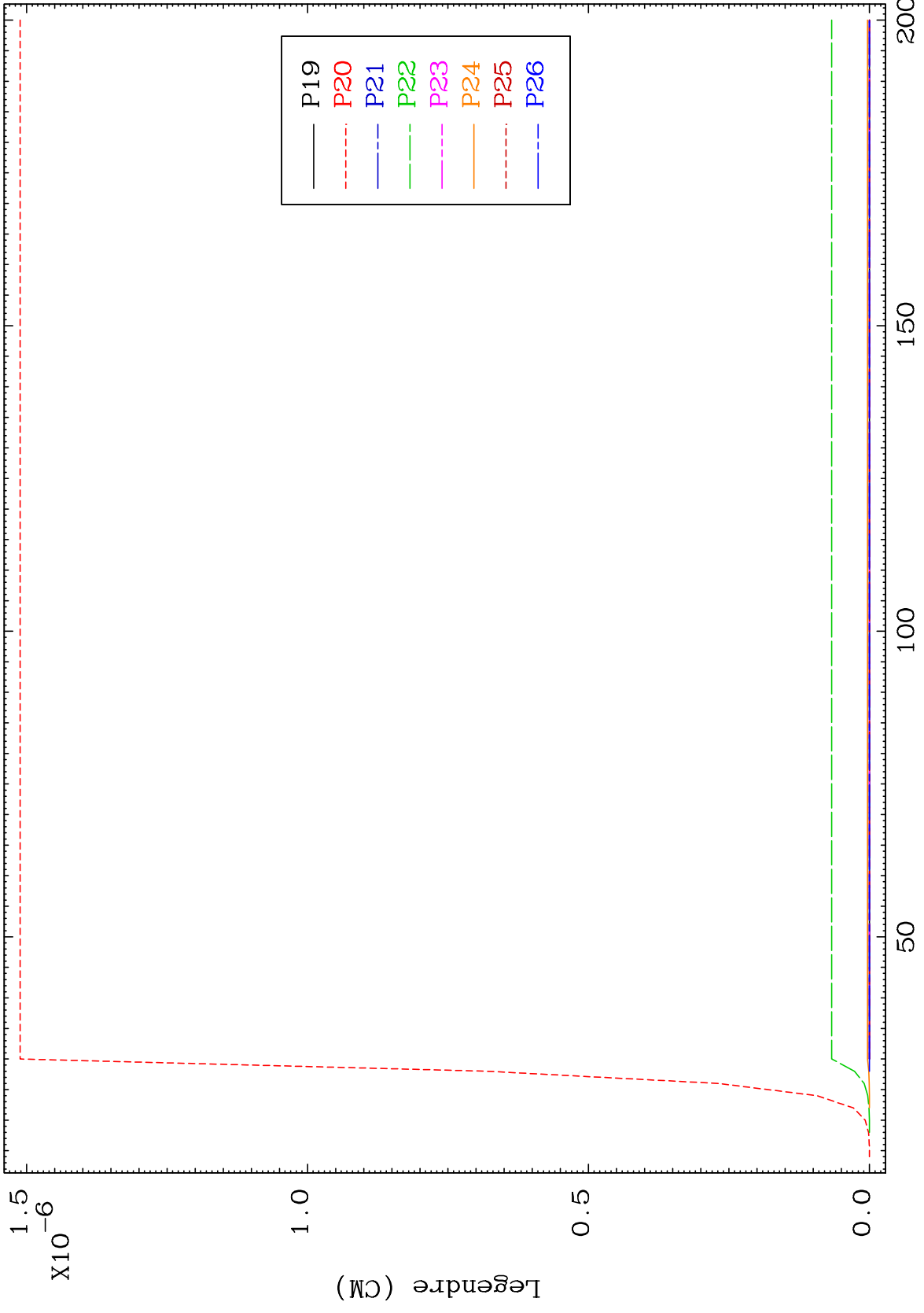
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



28

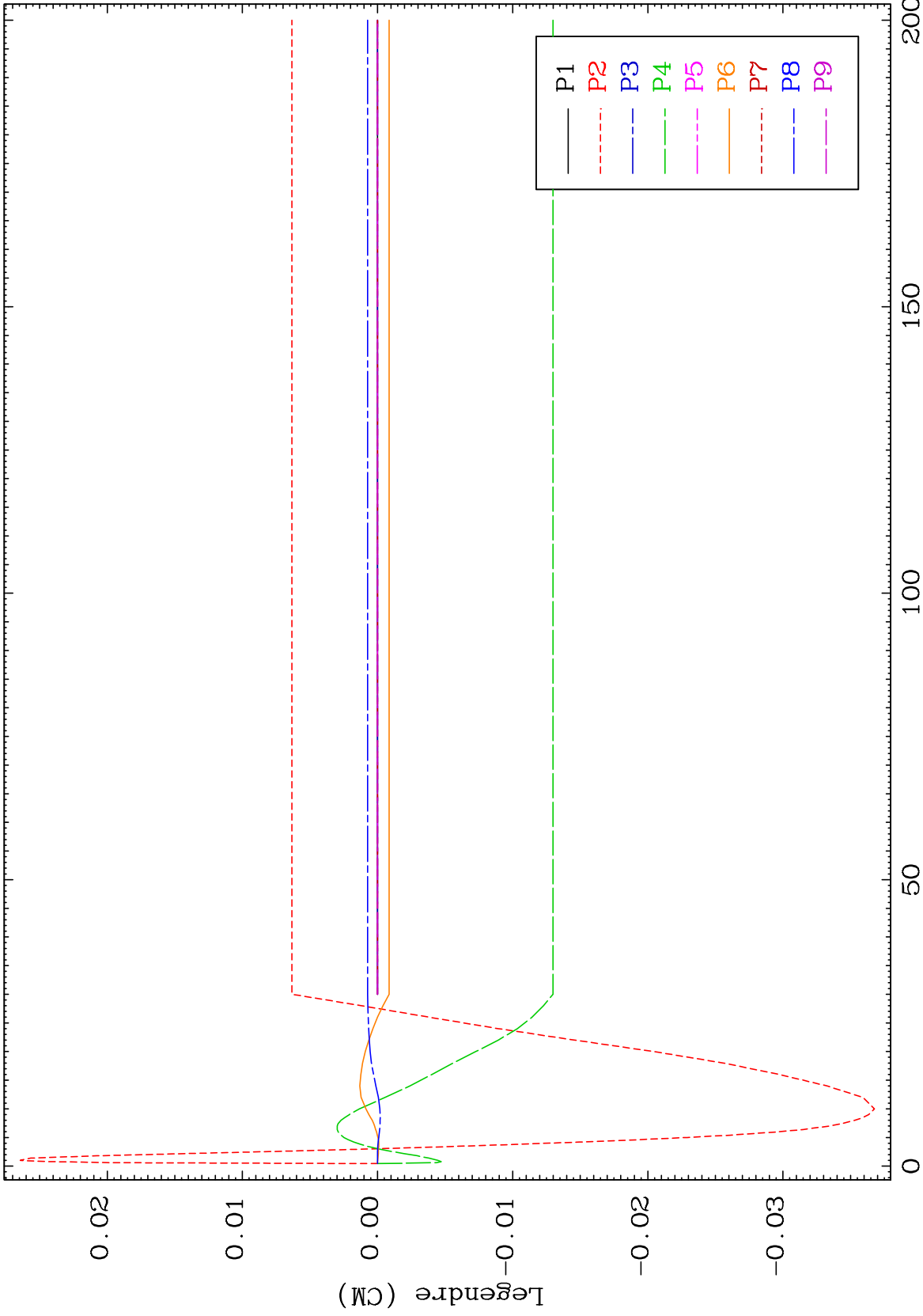
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



29

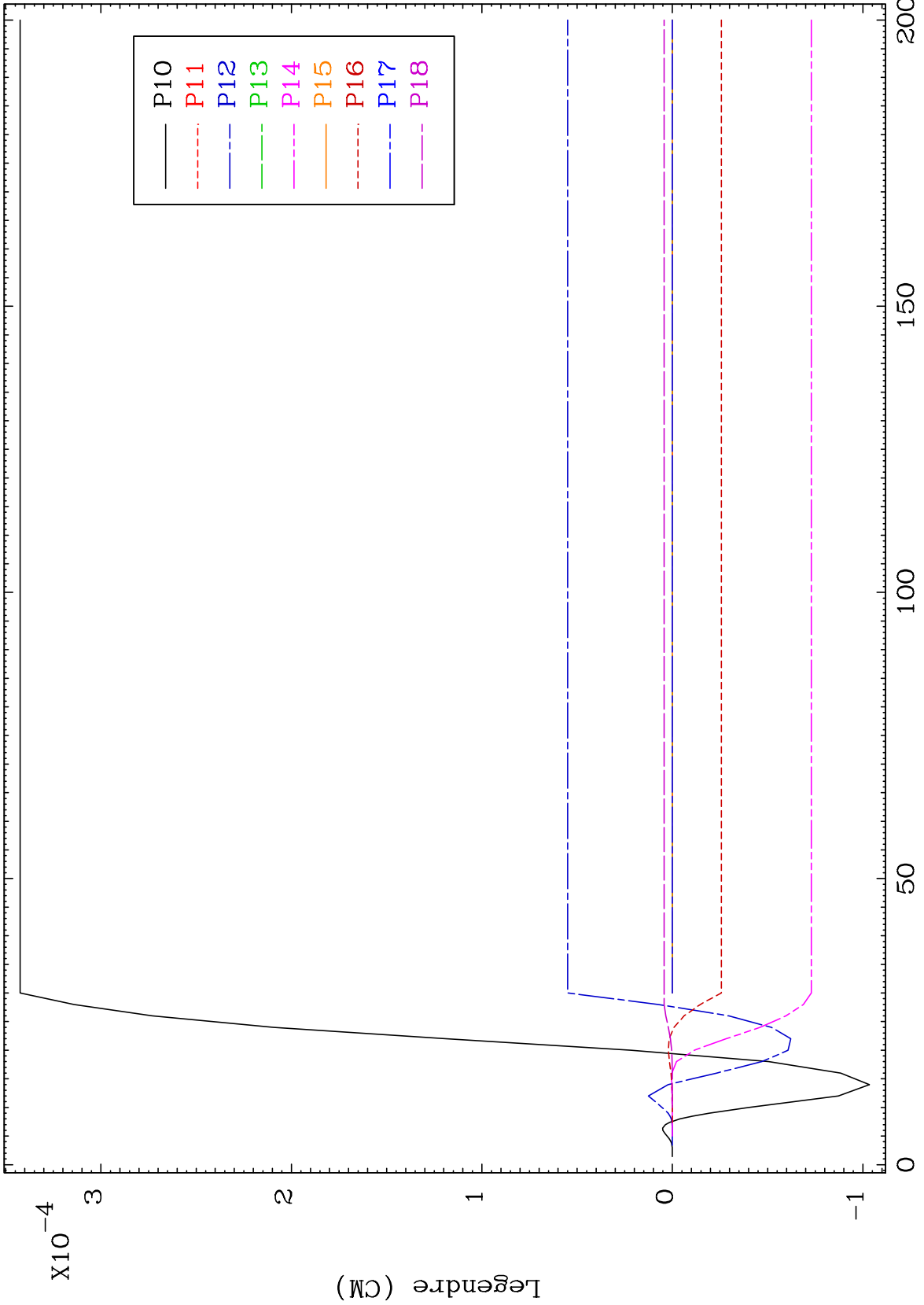
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



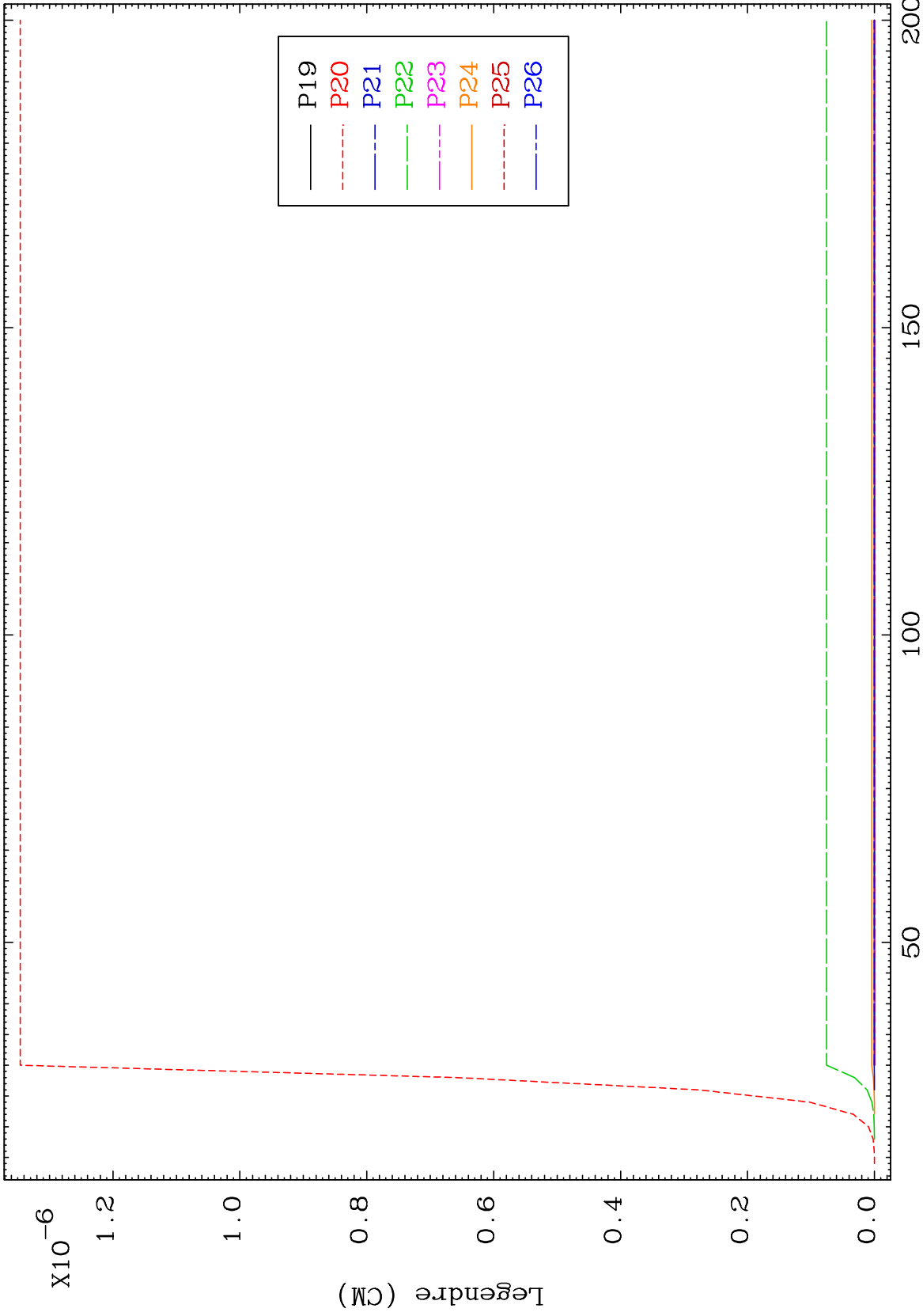
71-Lu-154

Incident Energy (MeV)

MAT 7062

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

71-Lu-154



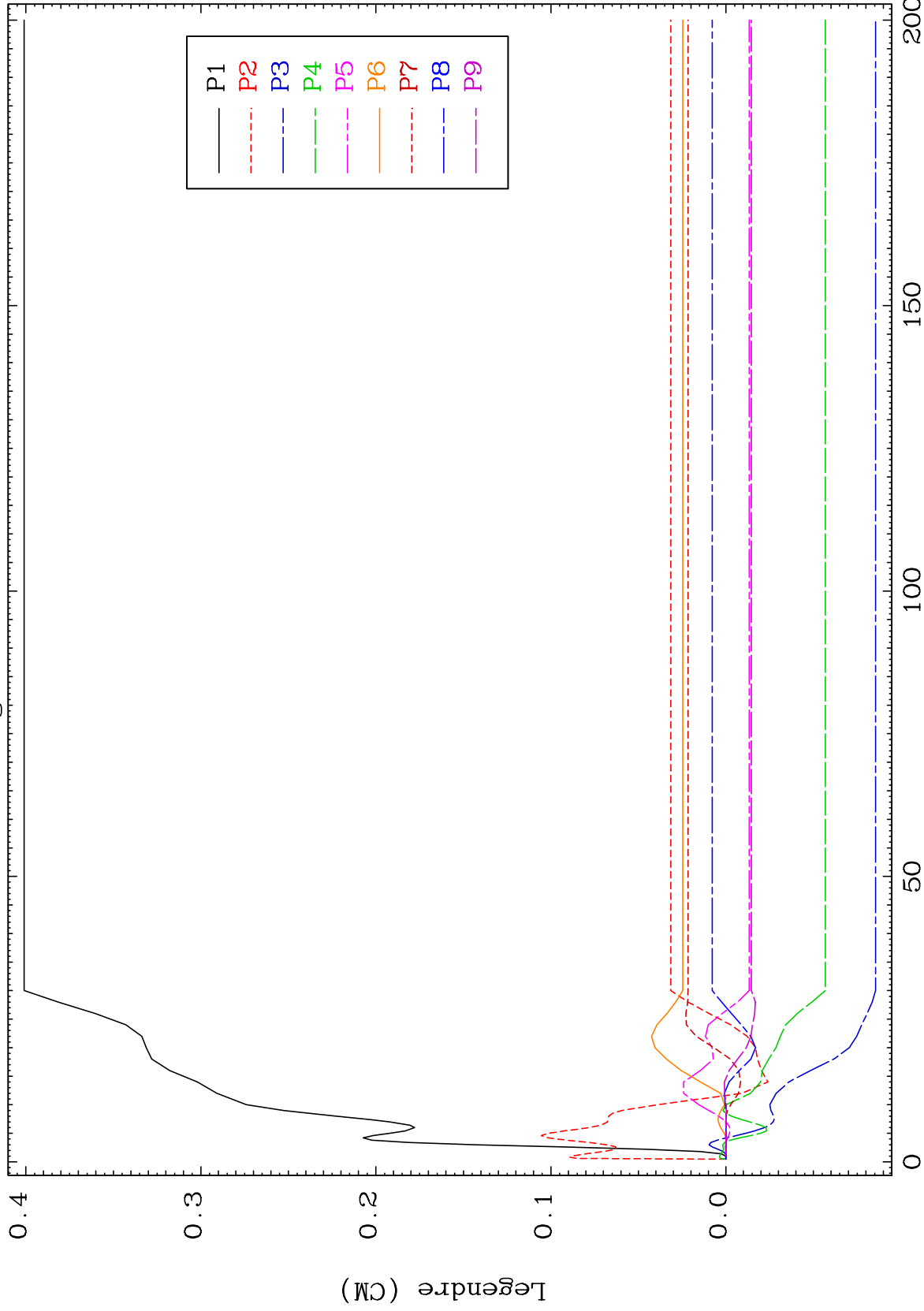
31

71-Lu-154

MAT 7062

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

71-Lu-154



32

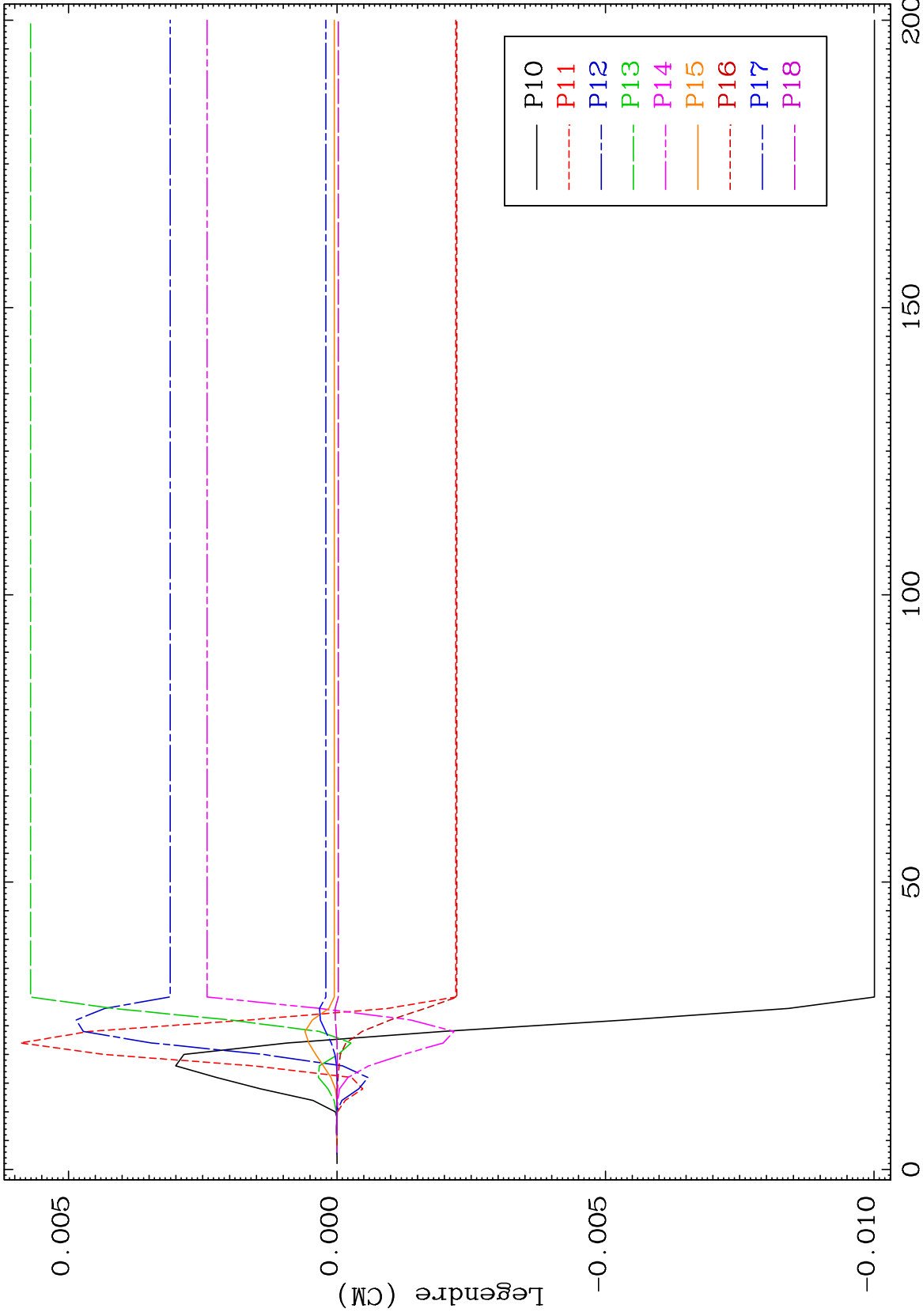
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



33

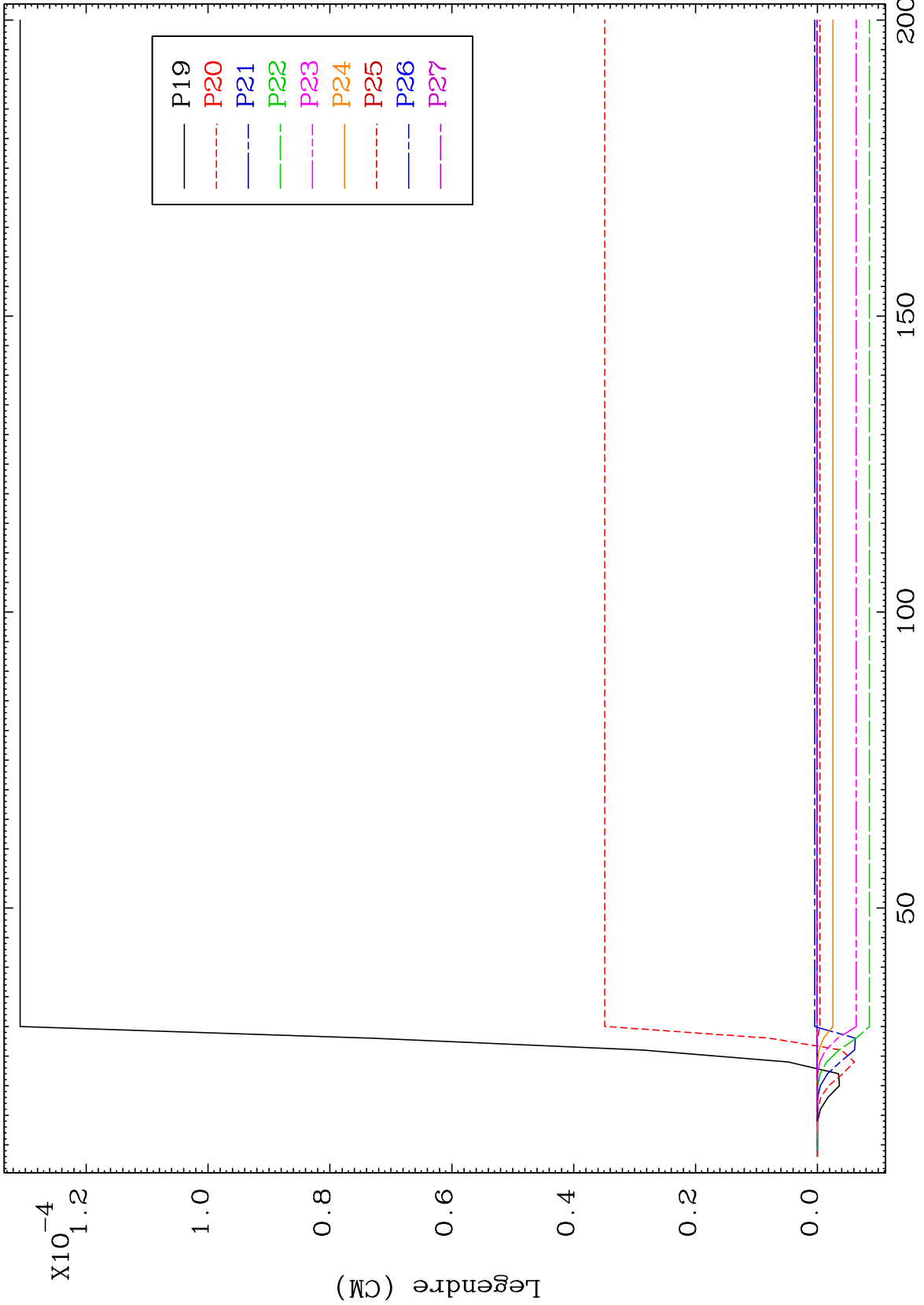
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



34

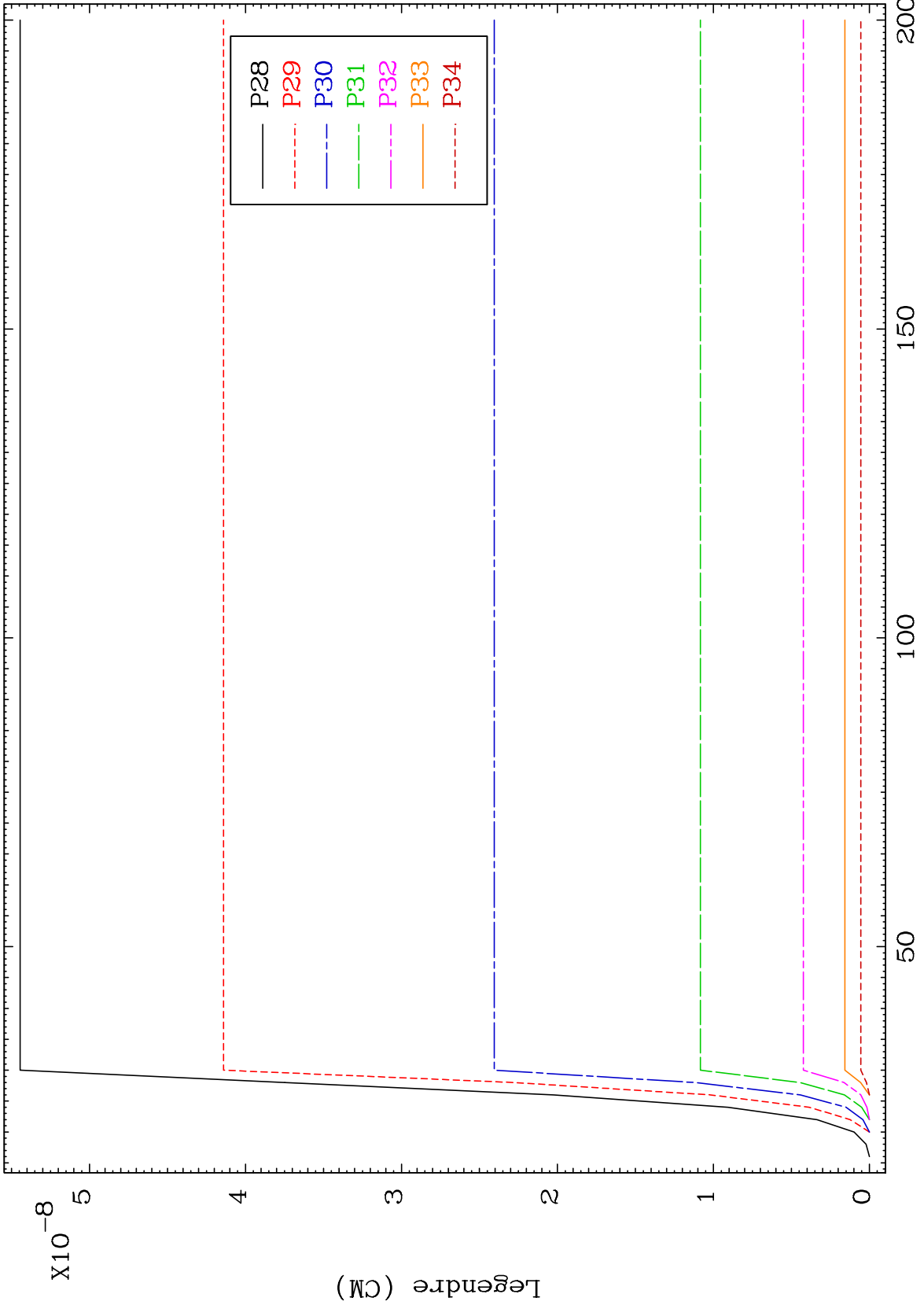
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



35

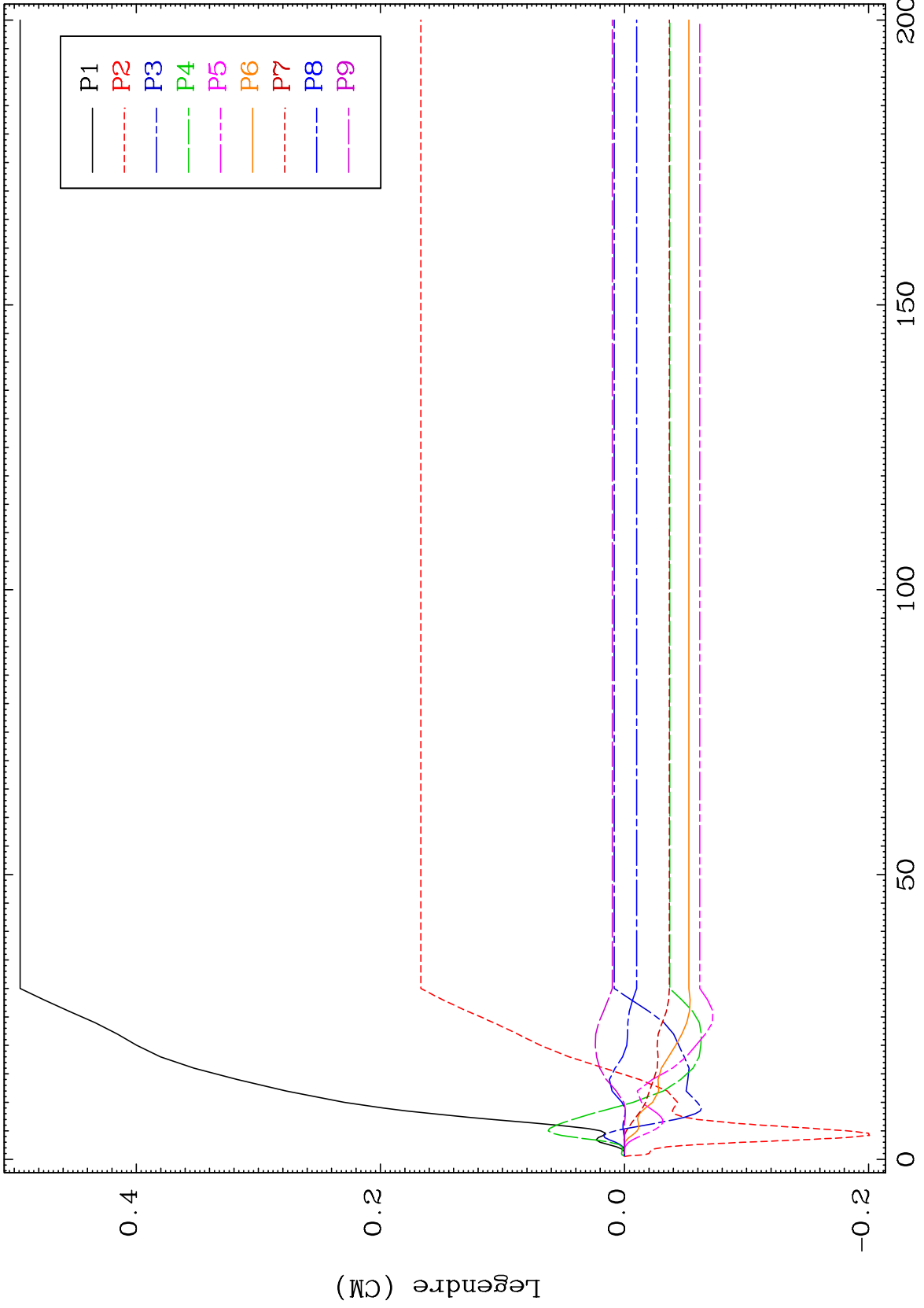
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



36

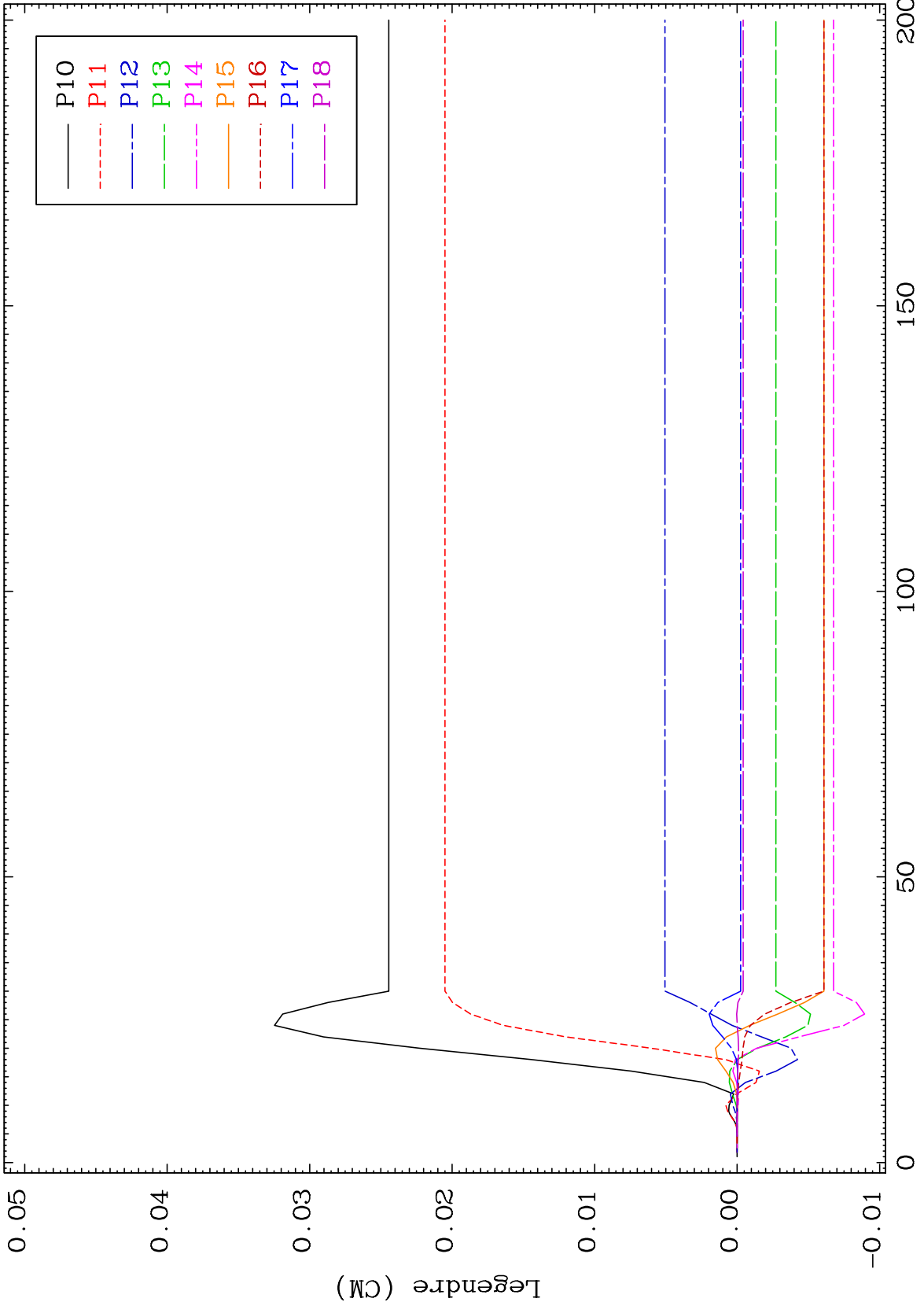
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



37

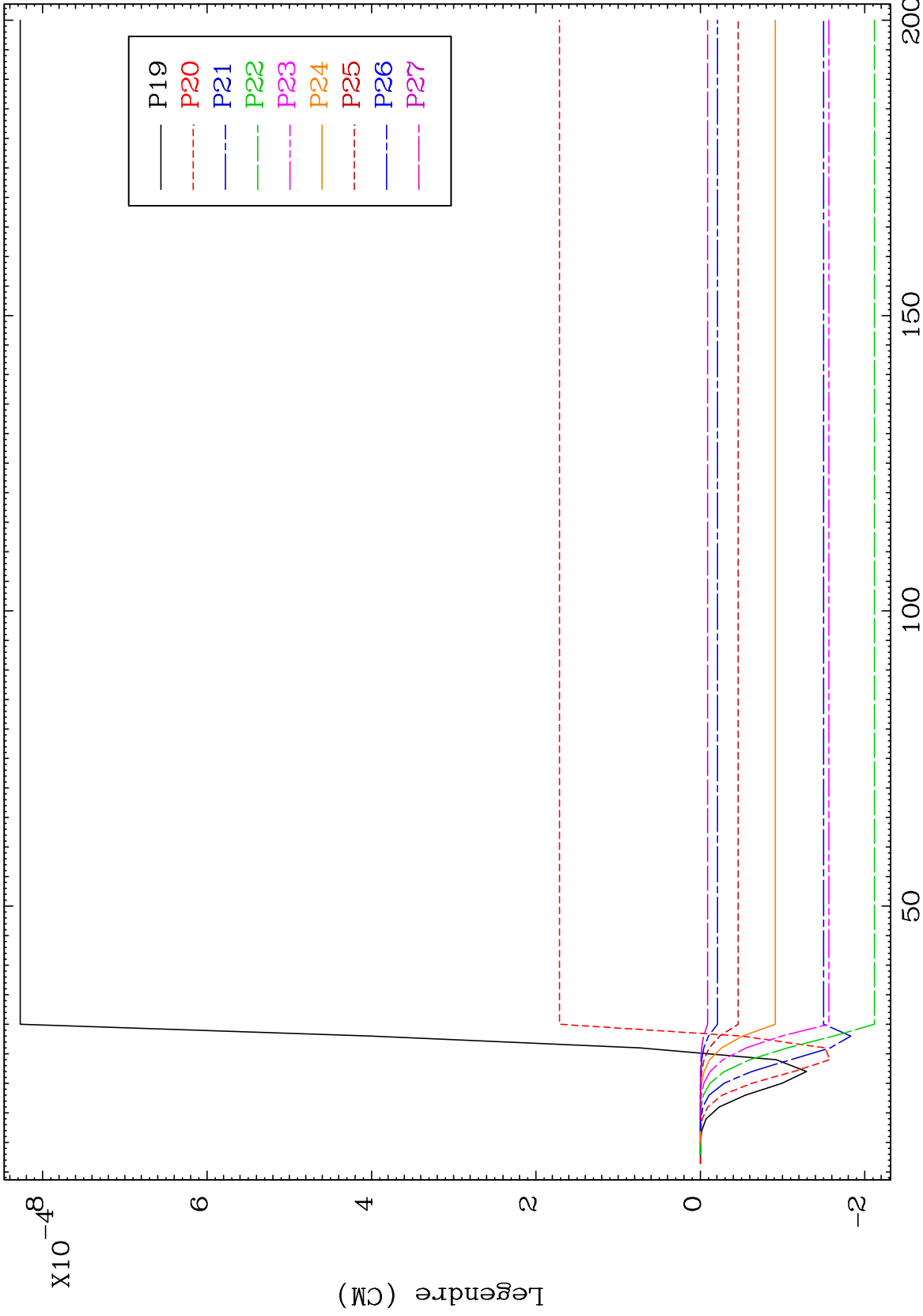
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



38

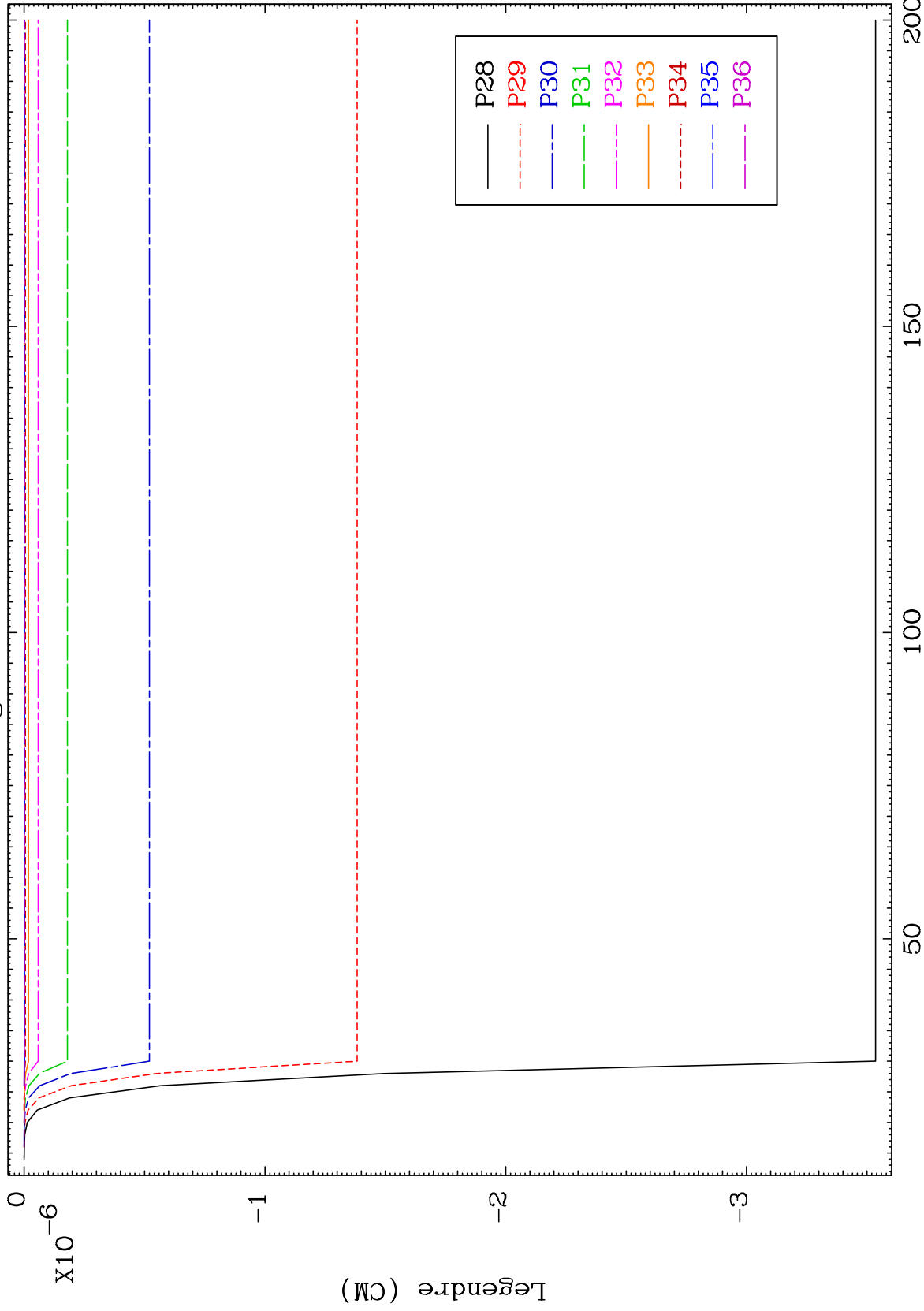
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



71-Lu-154

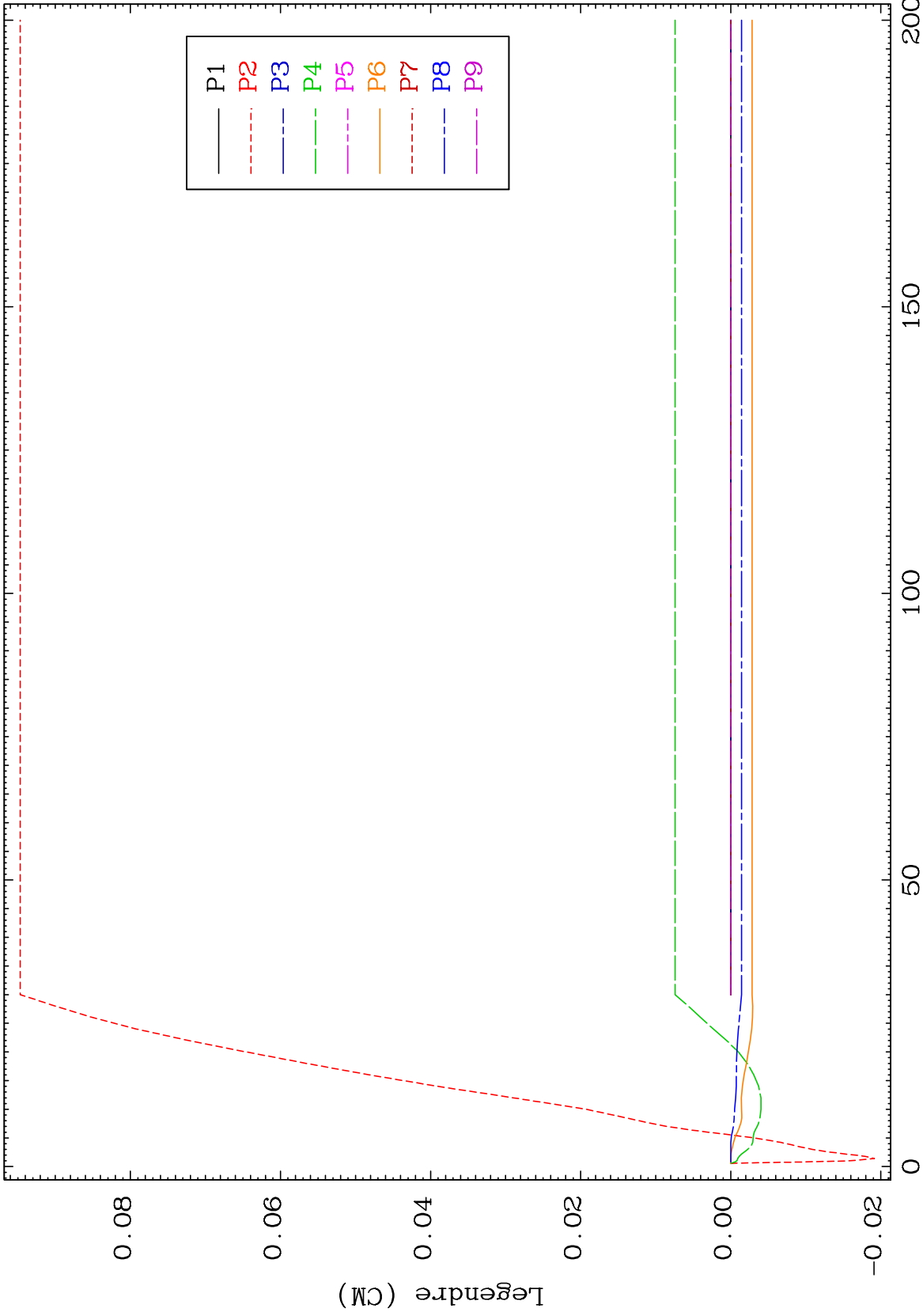
Incident Energy (MeV)

39

MAT 7062

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

71-Lu-154



71-Lu-154

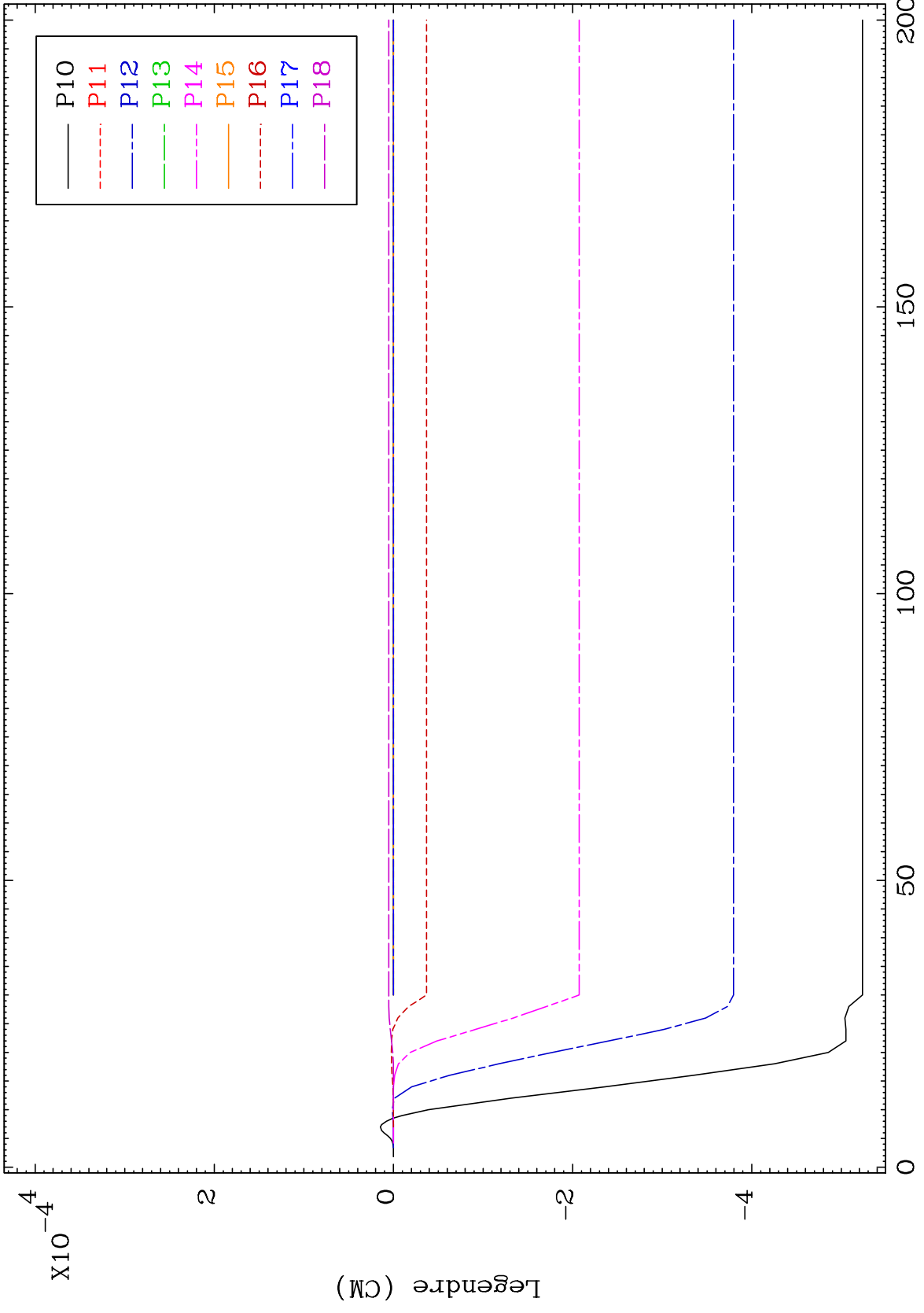
Incident Energy (MeV)

40

MAT 7062

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

71-Lu-154



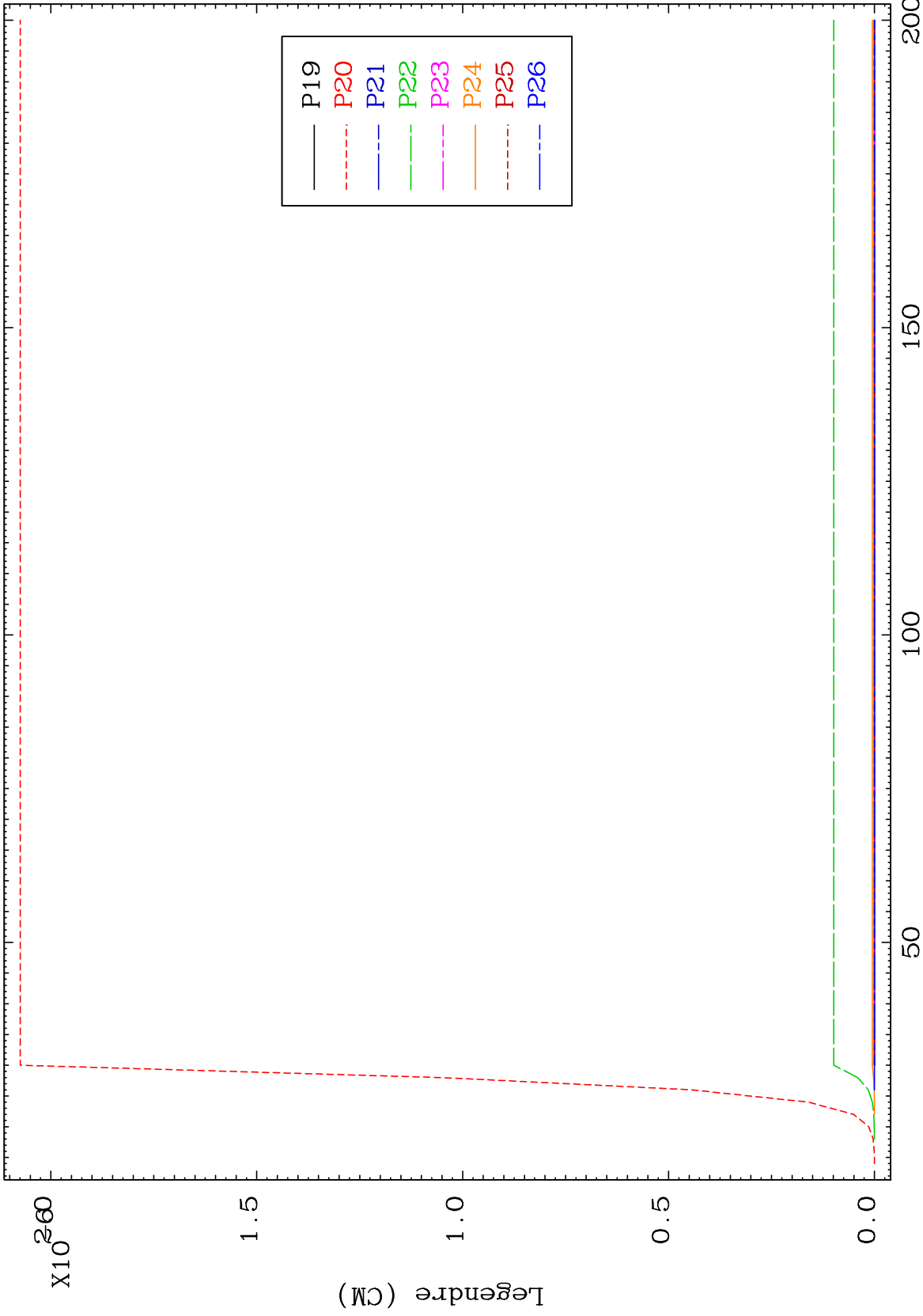
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71-Lu-154

MAT 7062

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

71-Lu-154



42

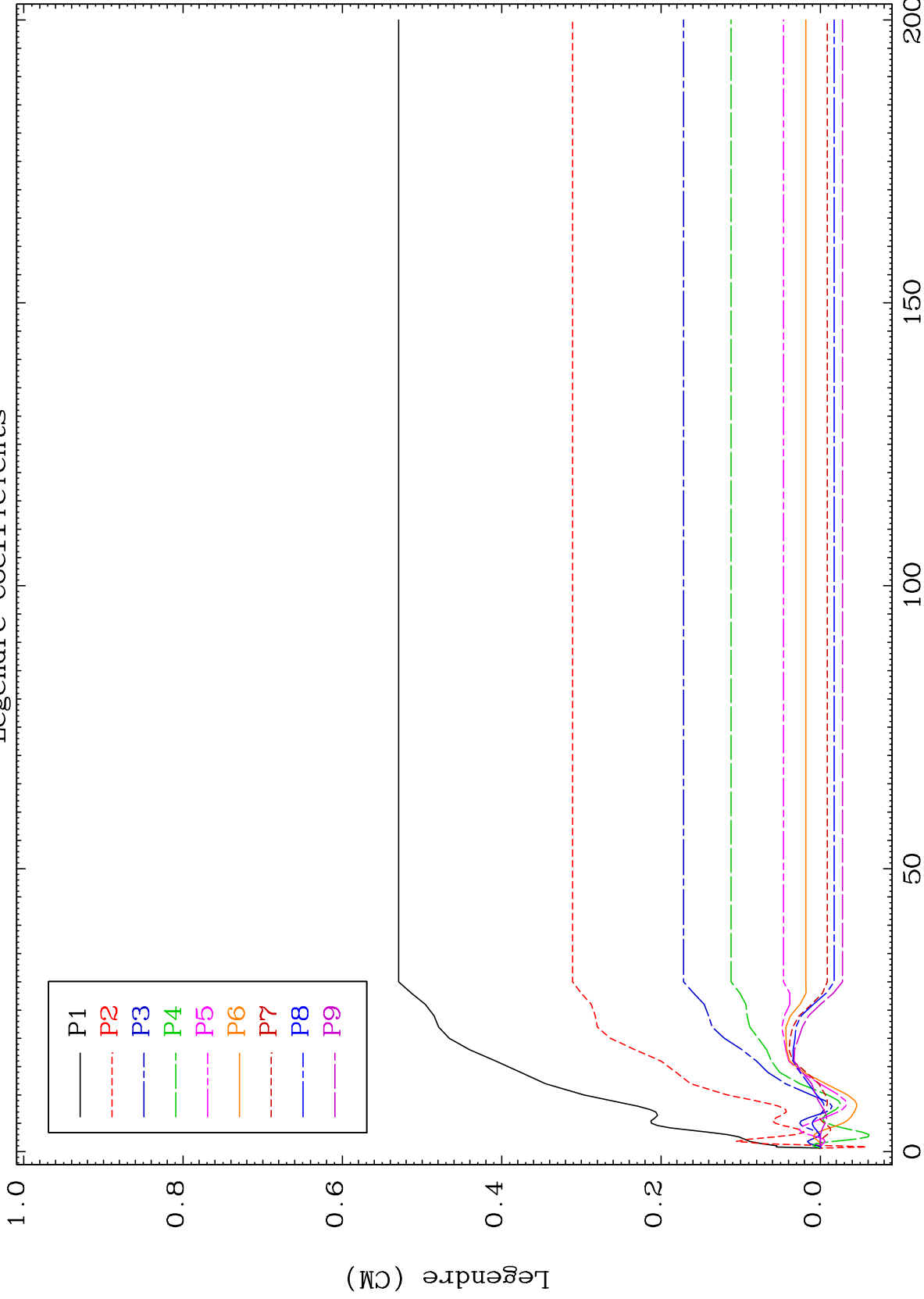
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



43

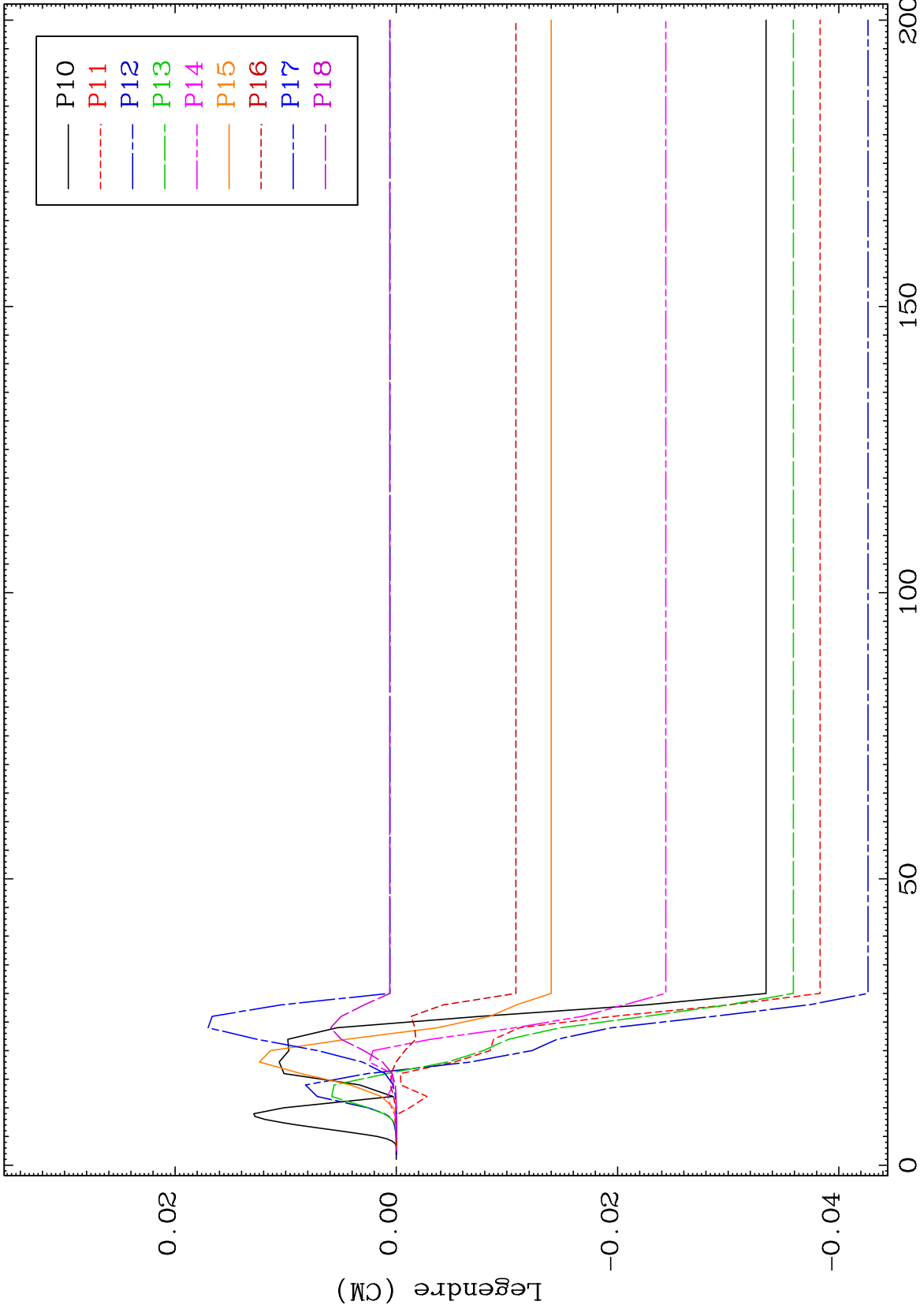
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



44

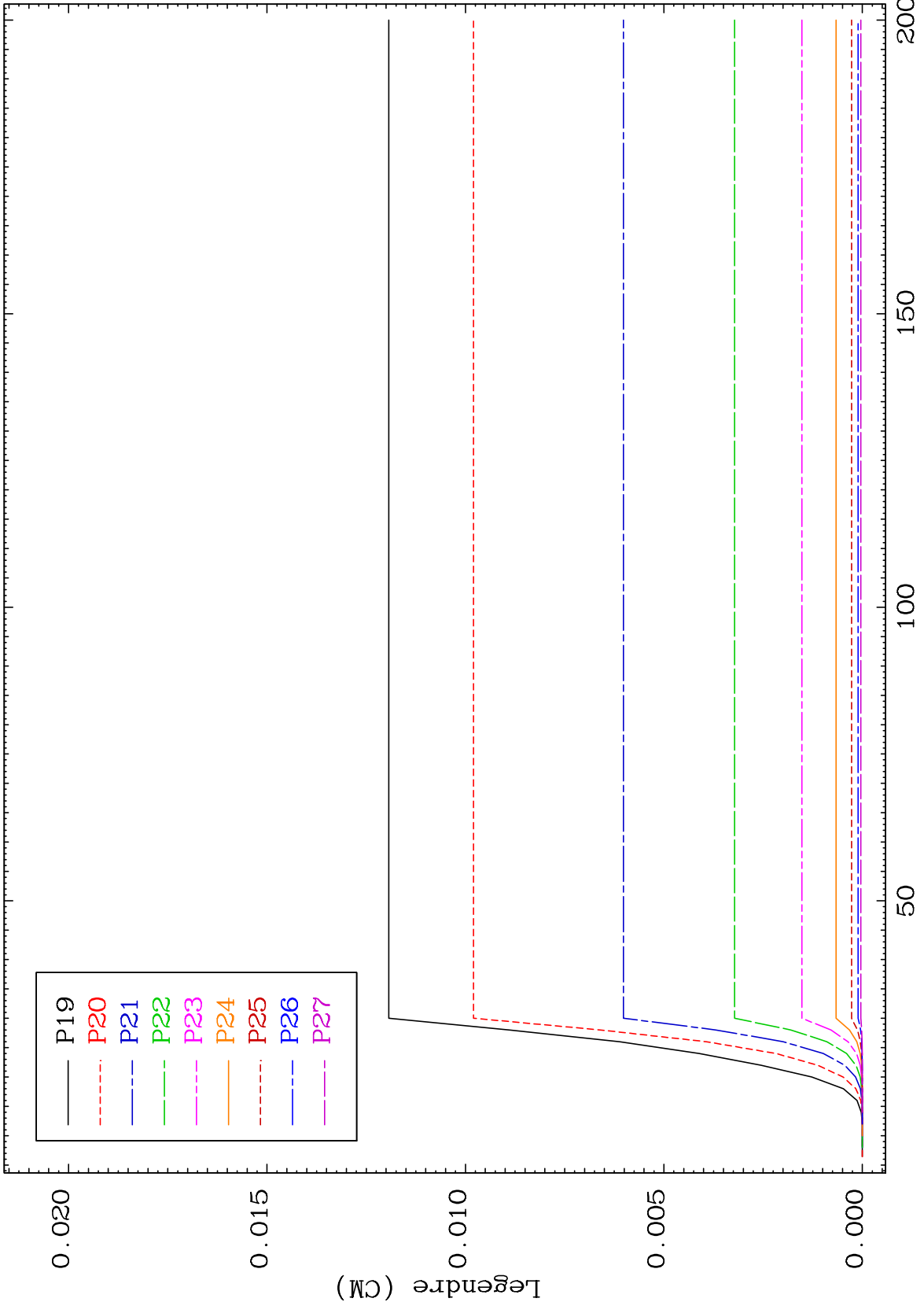
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



45

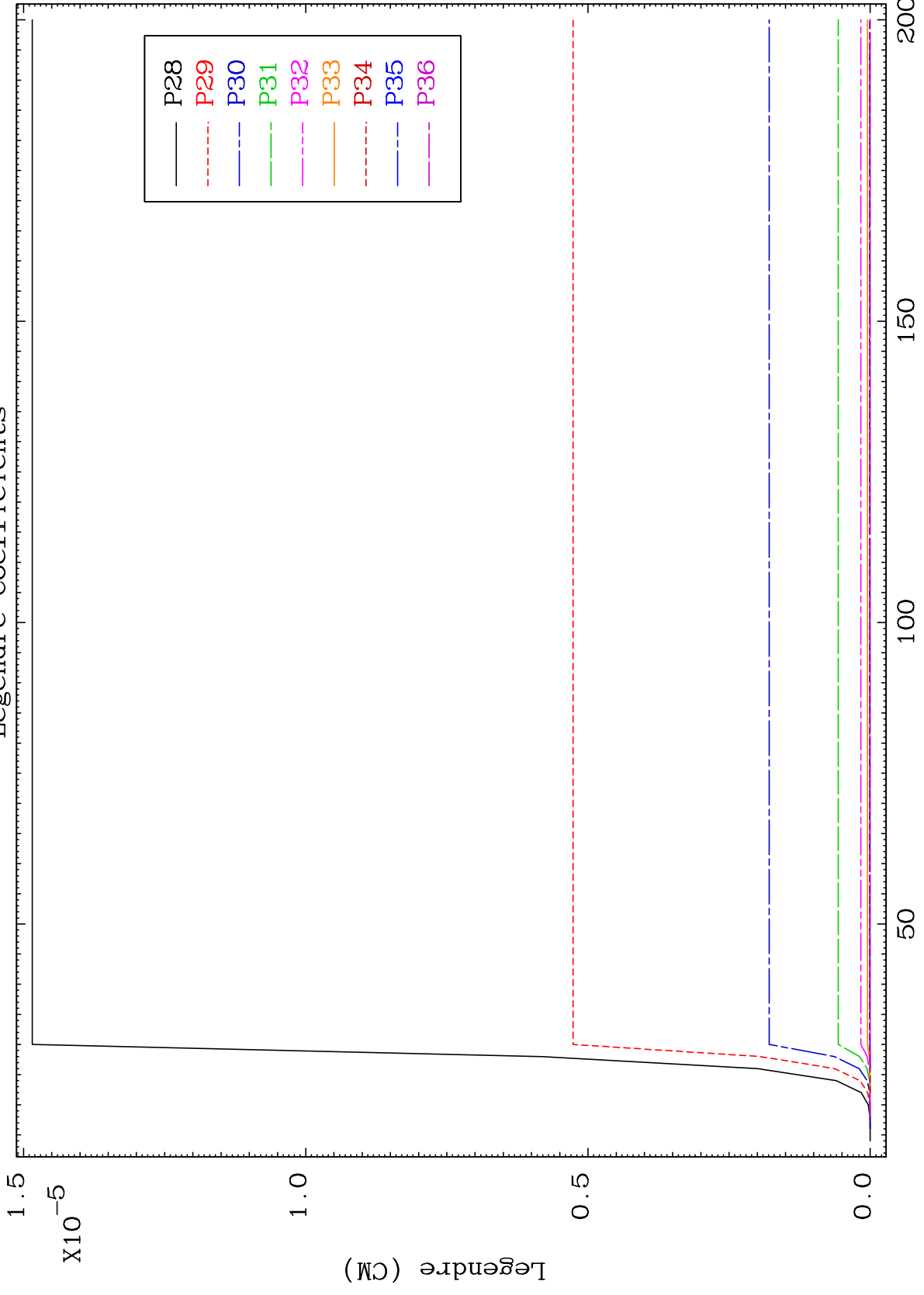
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



46

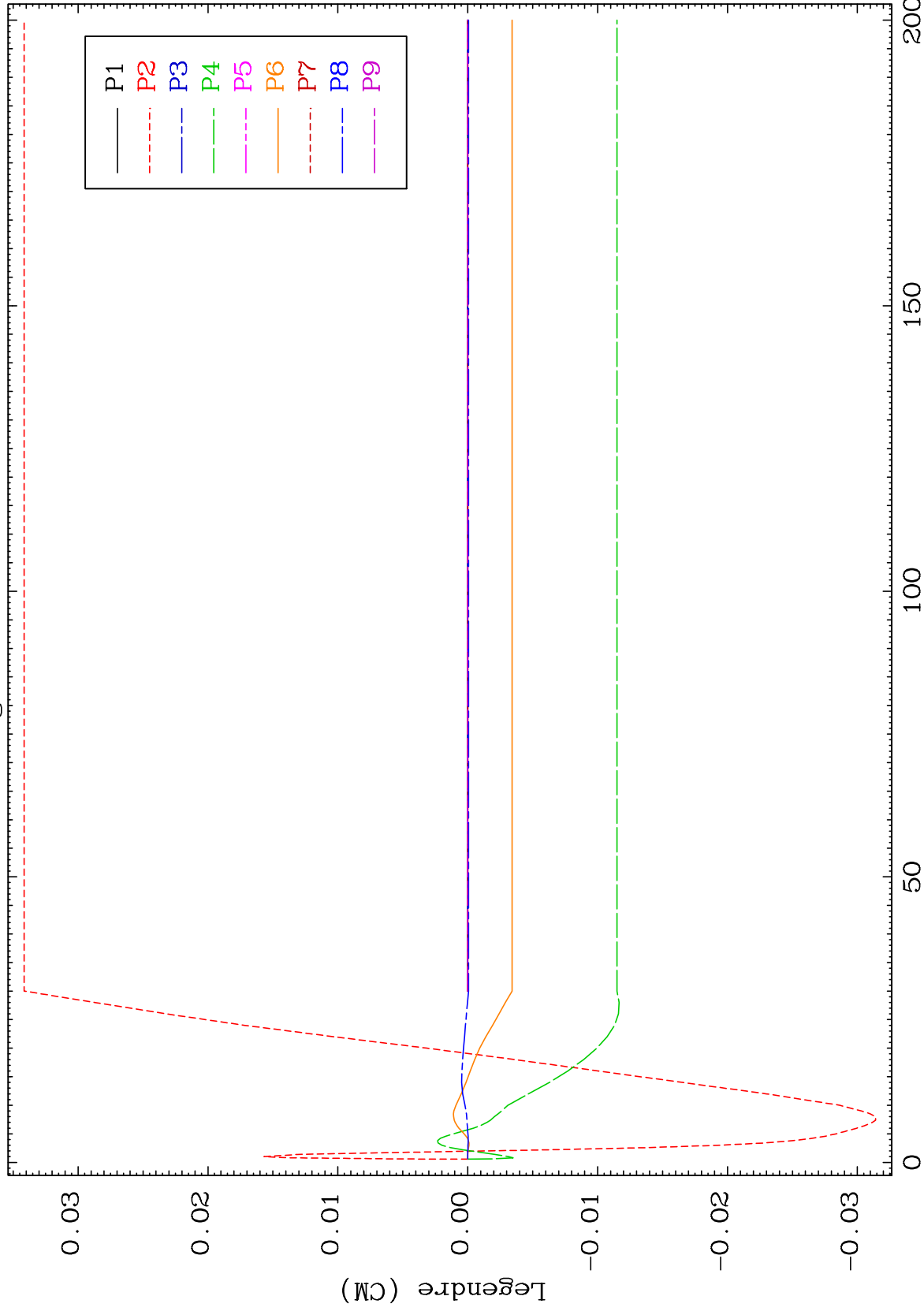
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



47

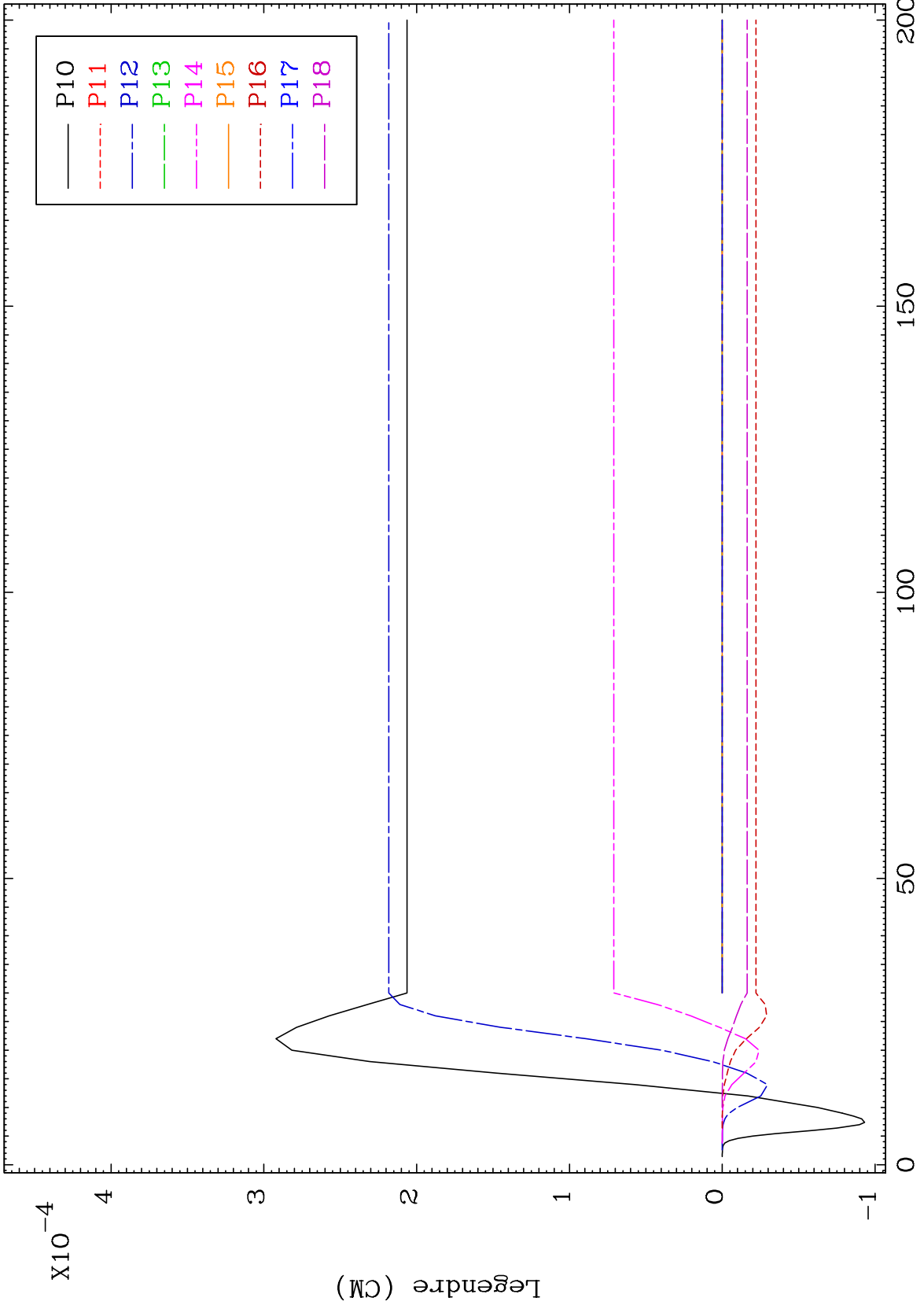
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154

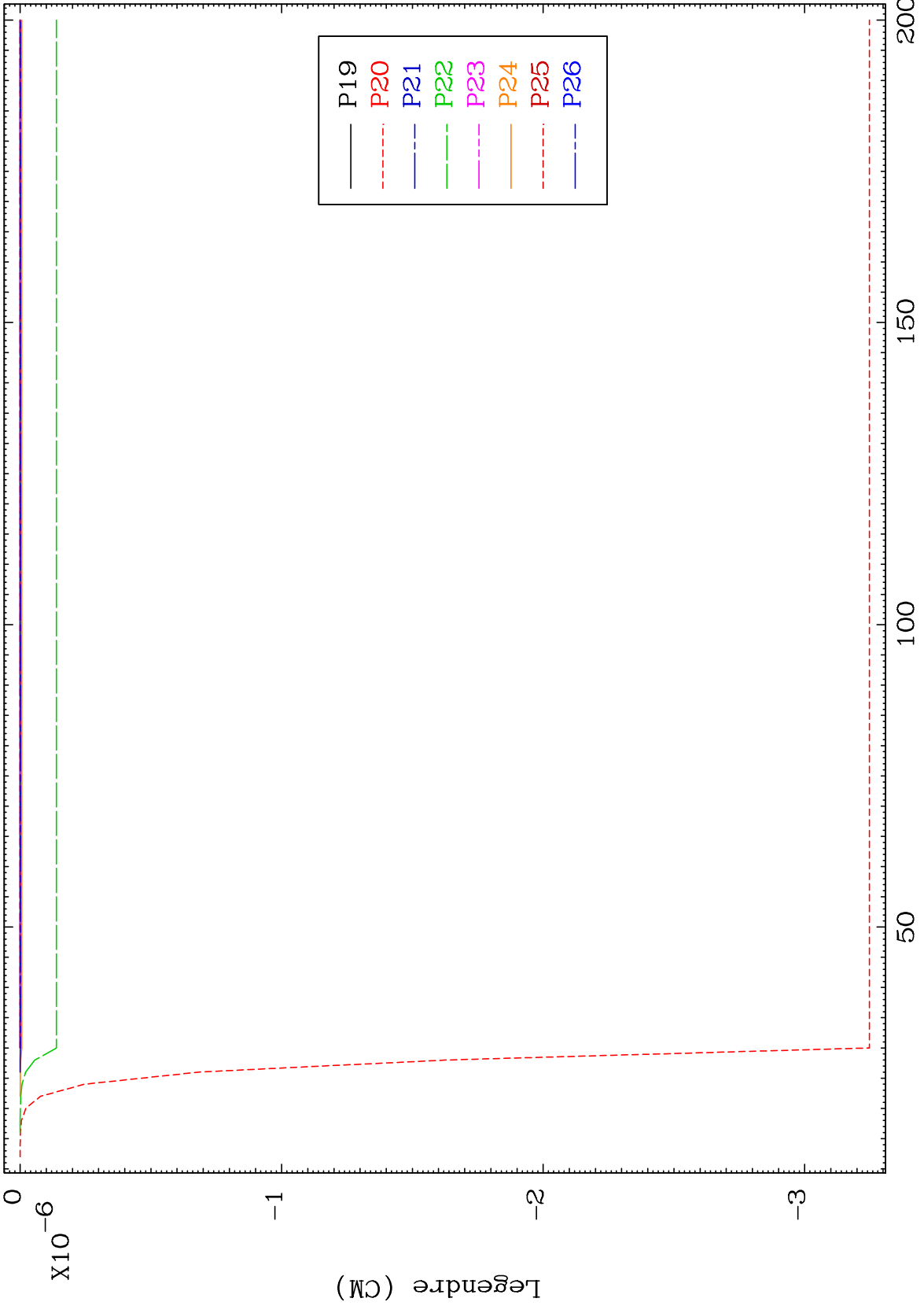


48

Incident Energy (MeV)

71-Lu-154

MAT 7062 MT= 59 (n,n') Level Legendre Coefficients 71-Lu-154

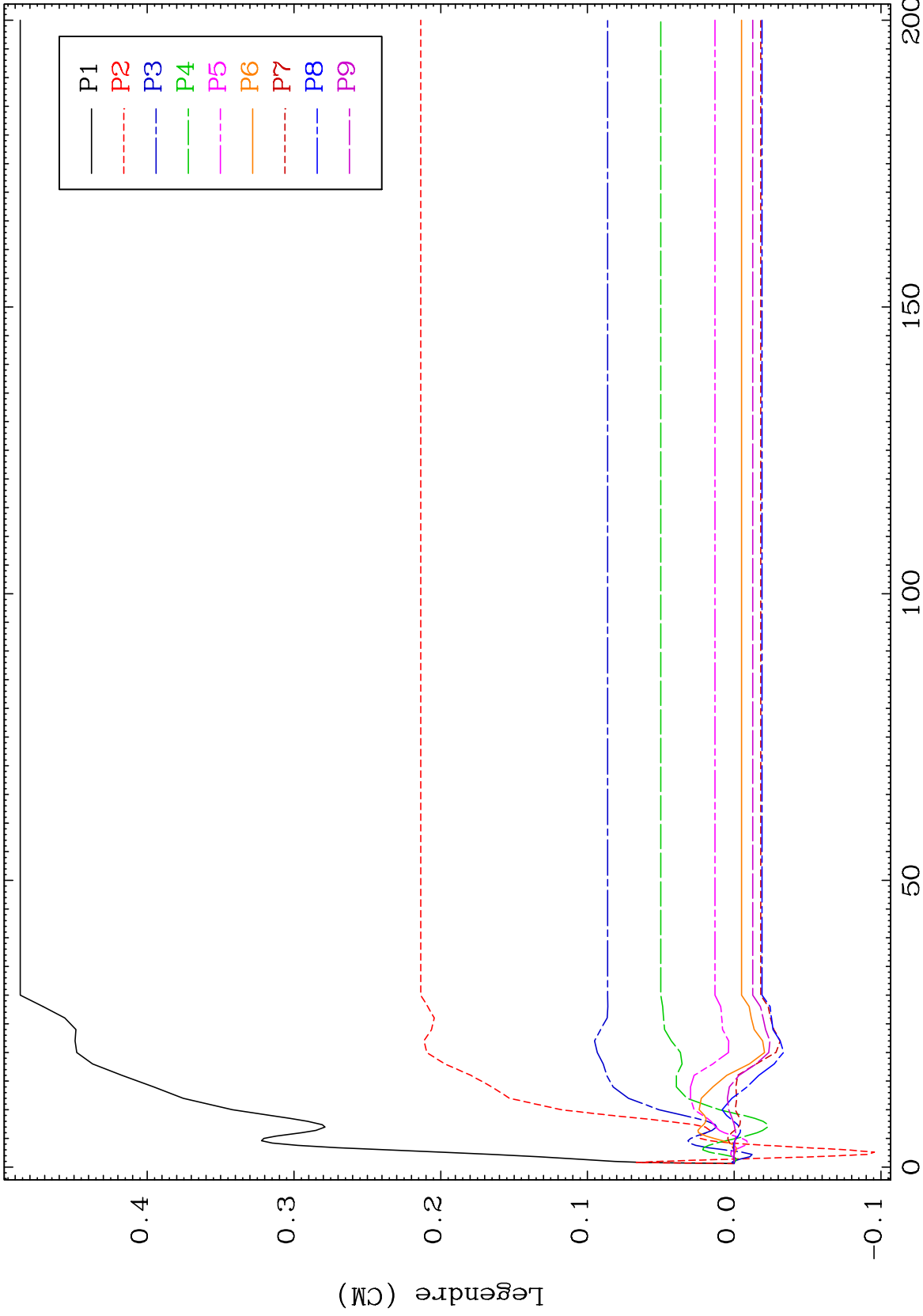


49 Incident Energy (MeV) 71-Lu-154

MAT 7062

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

71-Lu-154



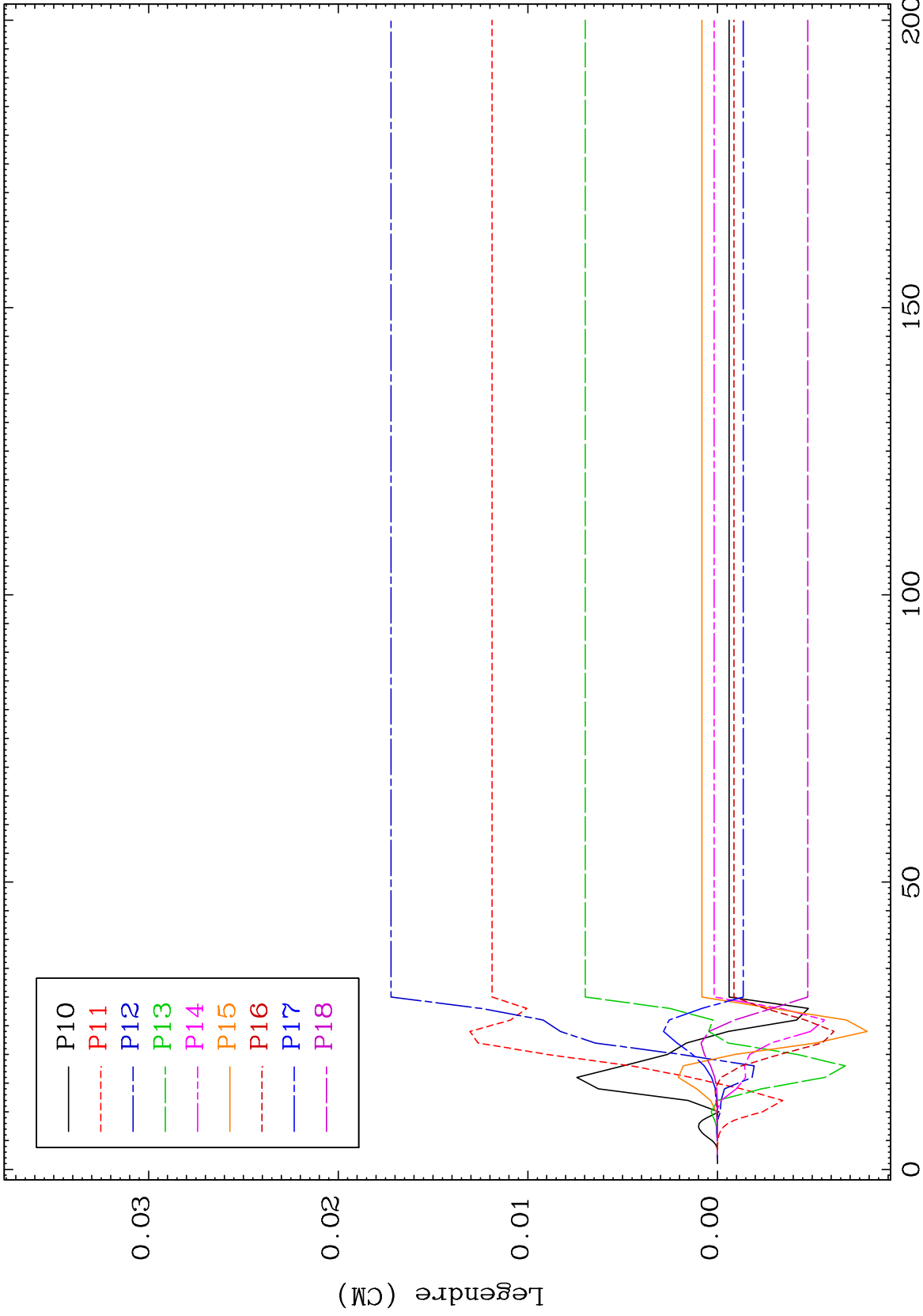
71-Lu-154

Incident Energy (MeV)

MAT 7062

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

71-Lu-154



51

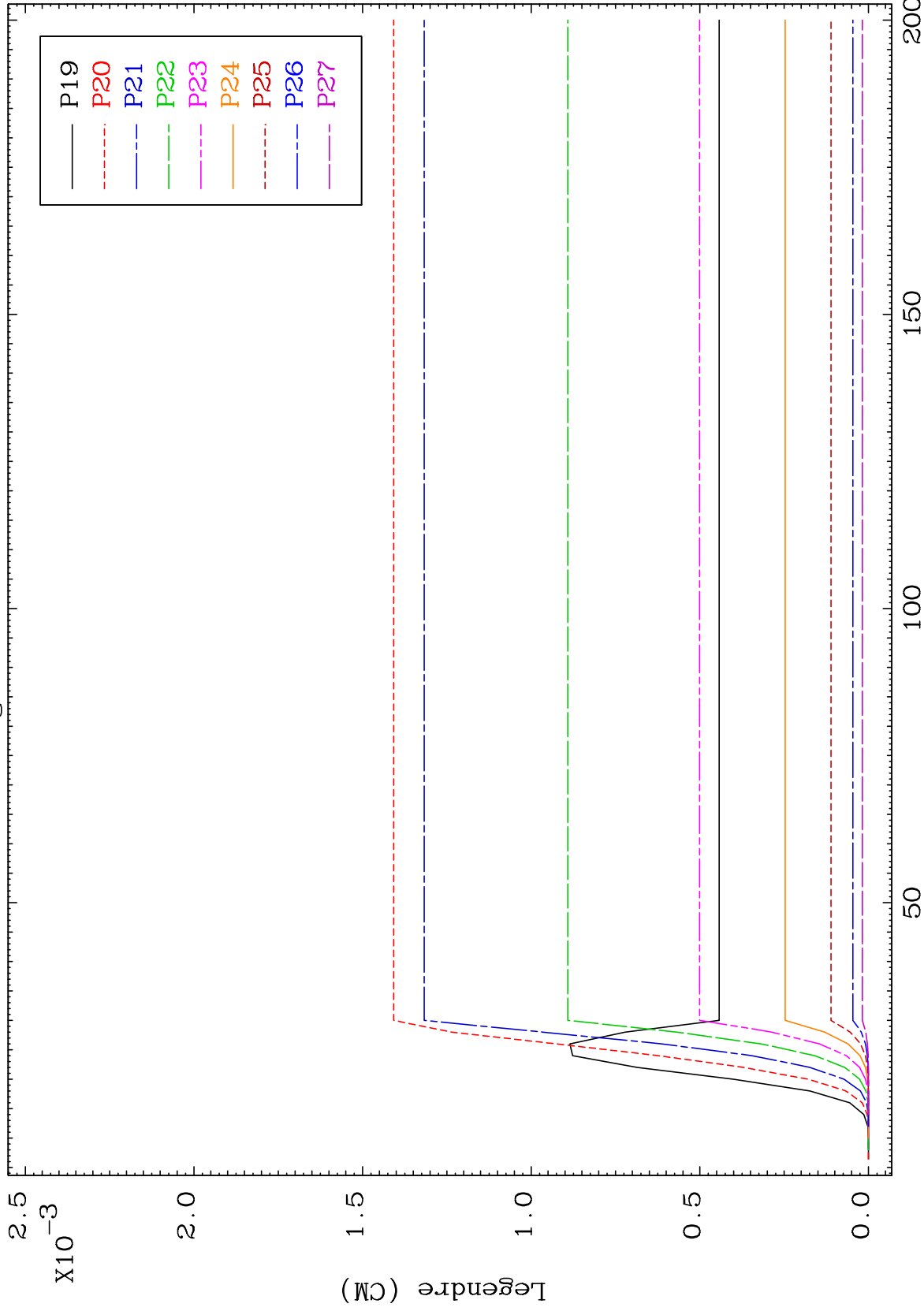
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



52

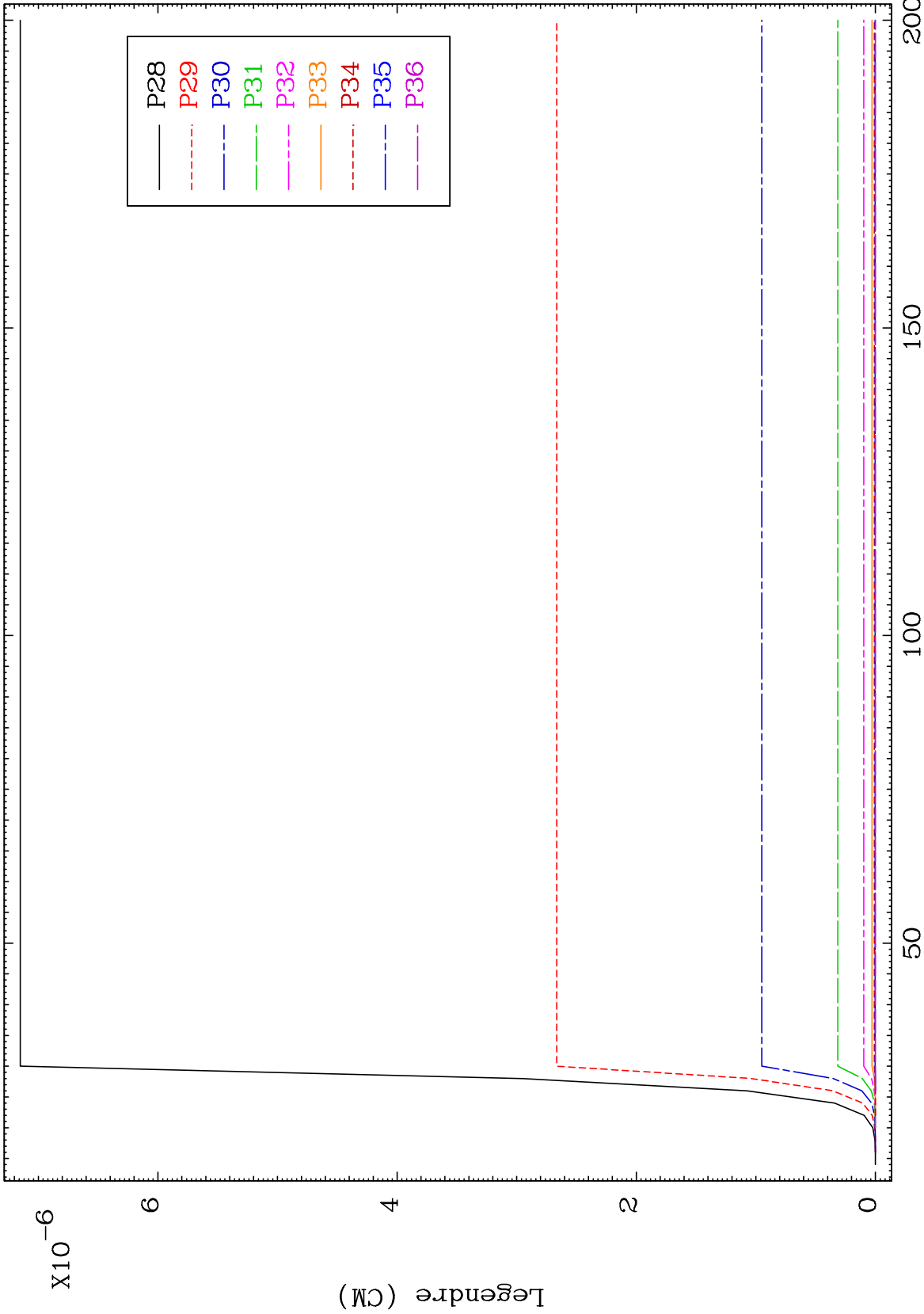
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



53

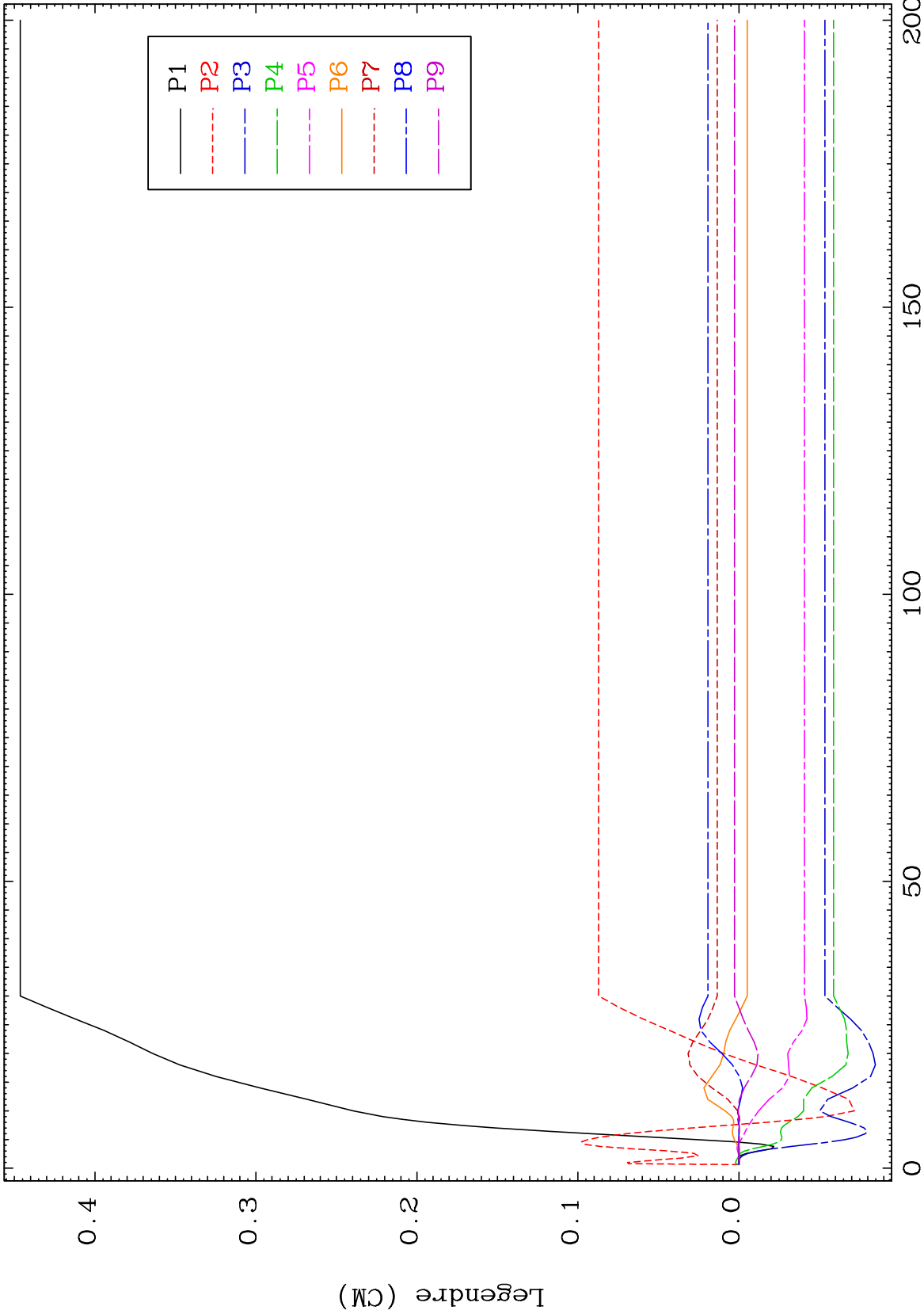
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



54

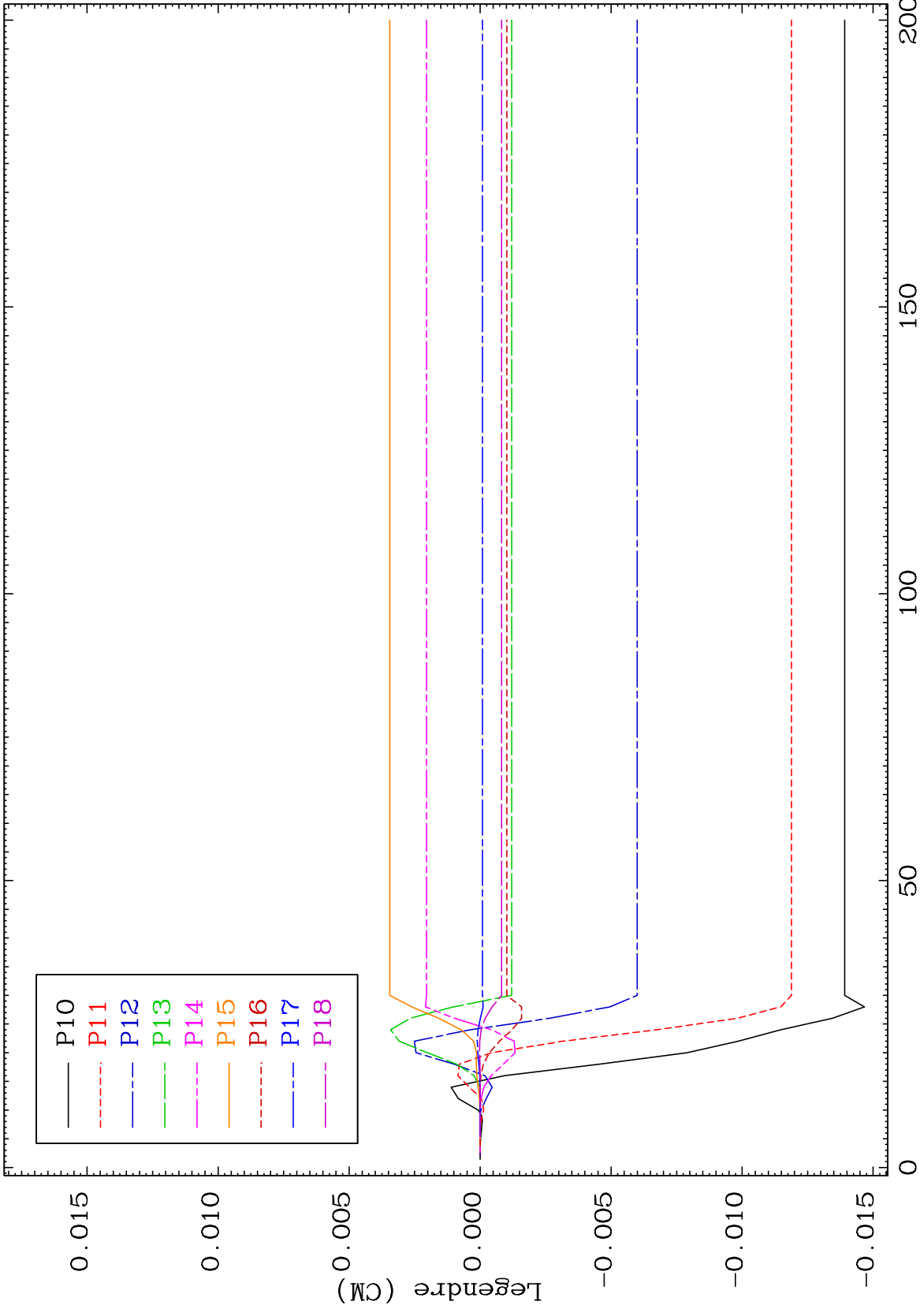
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



55

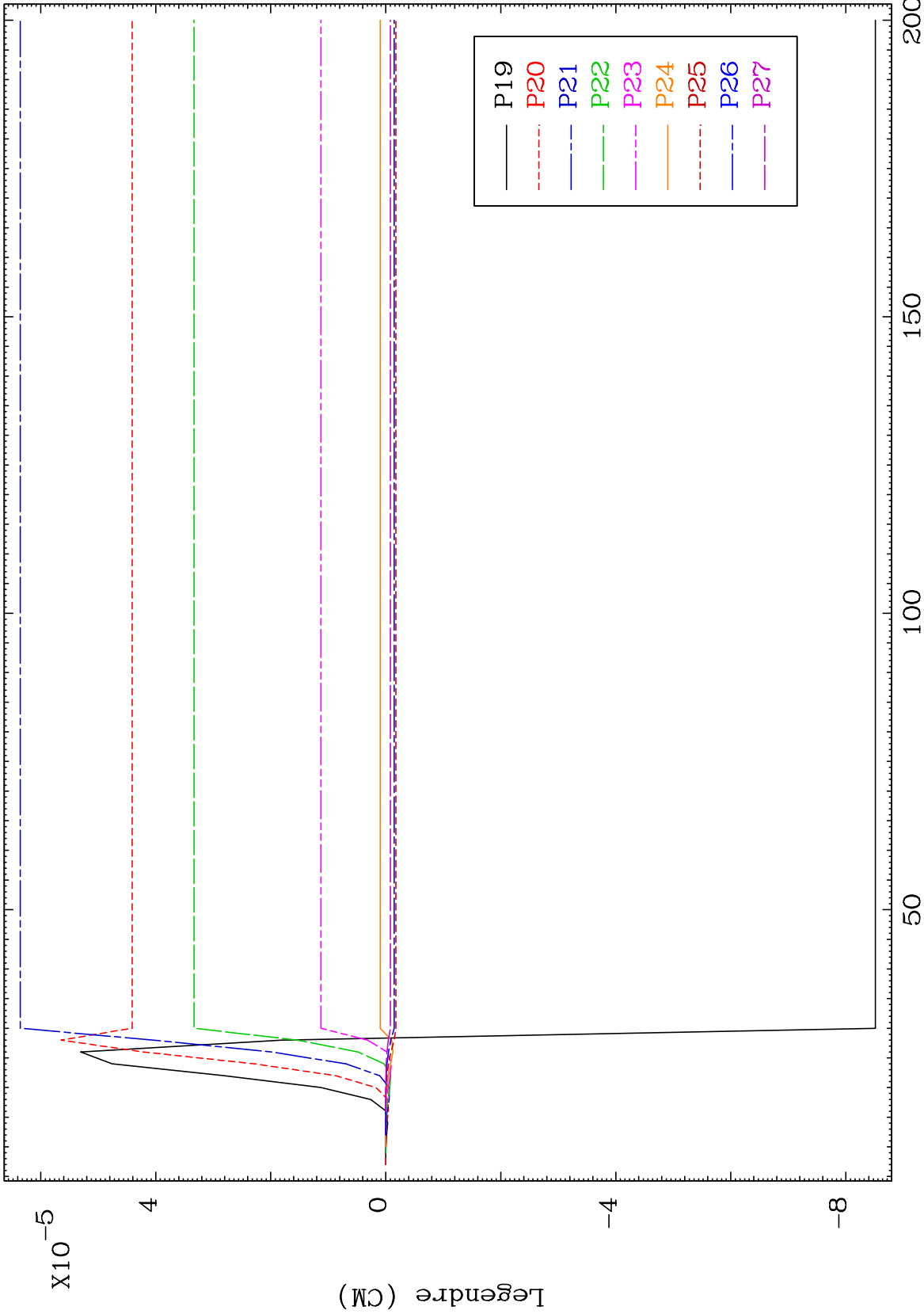
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



56

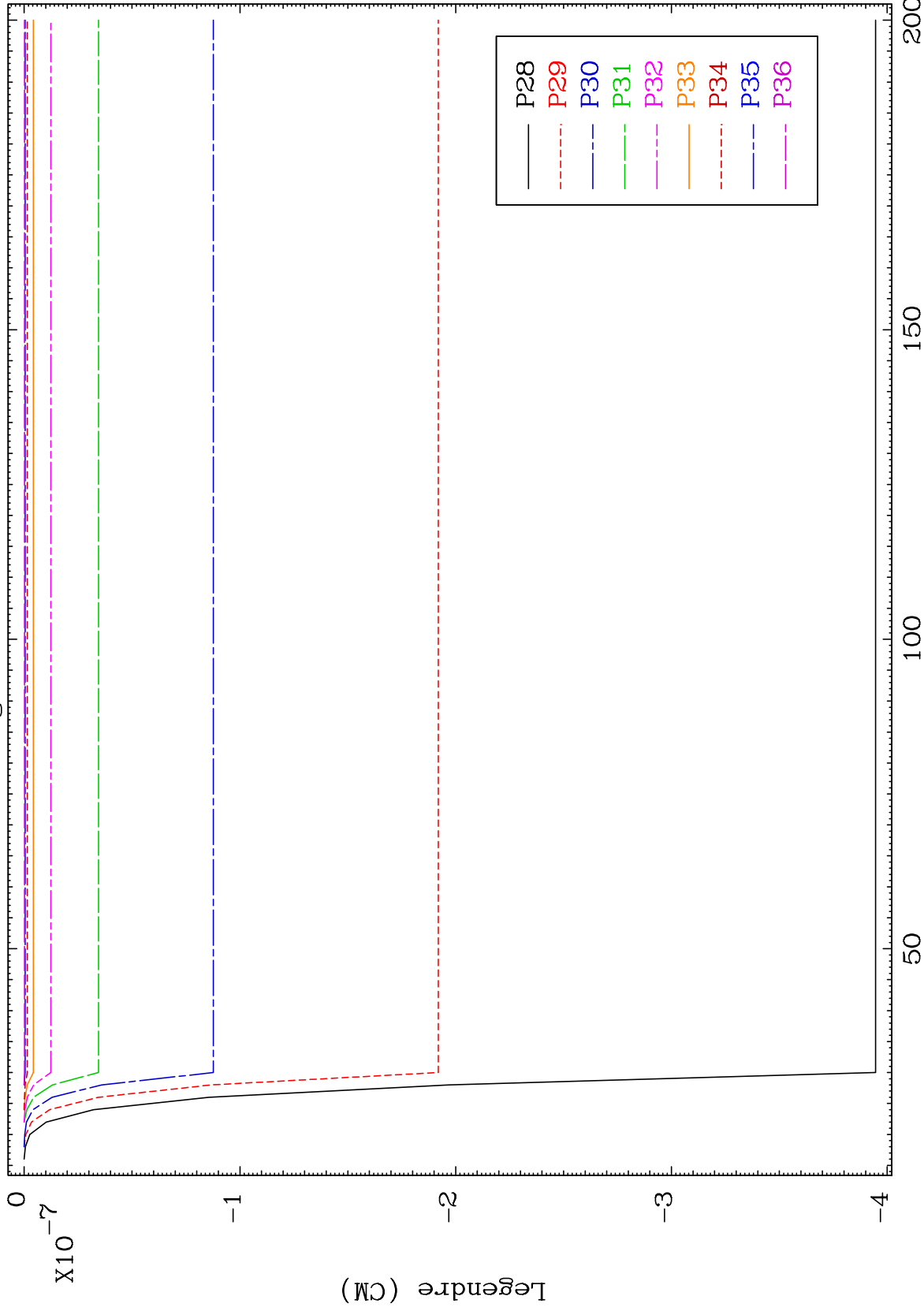
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



71-Lu-154

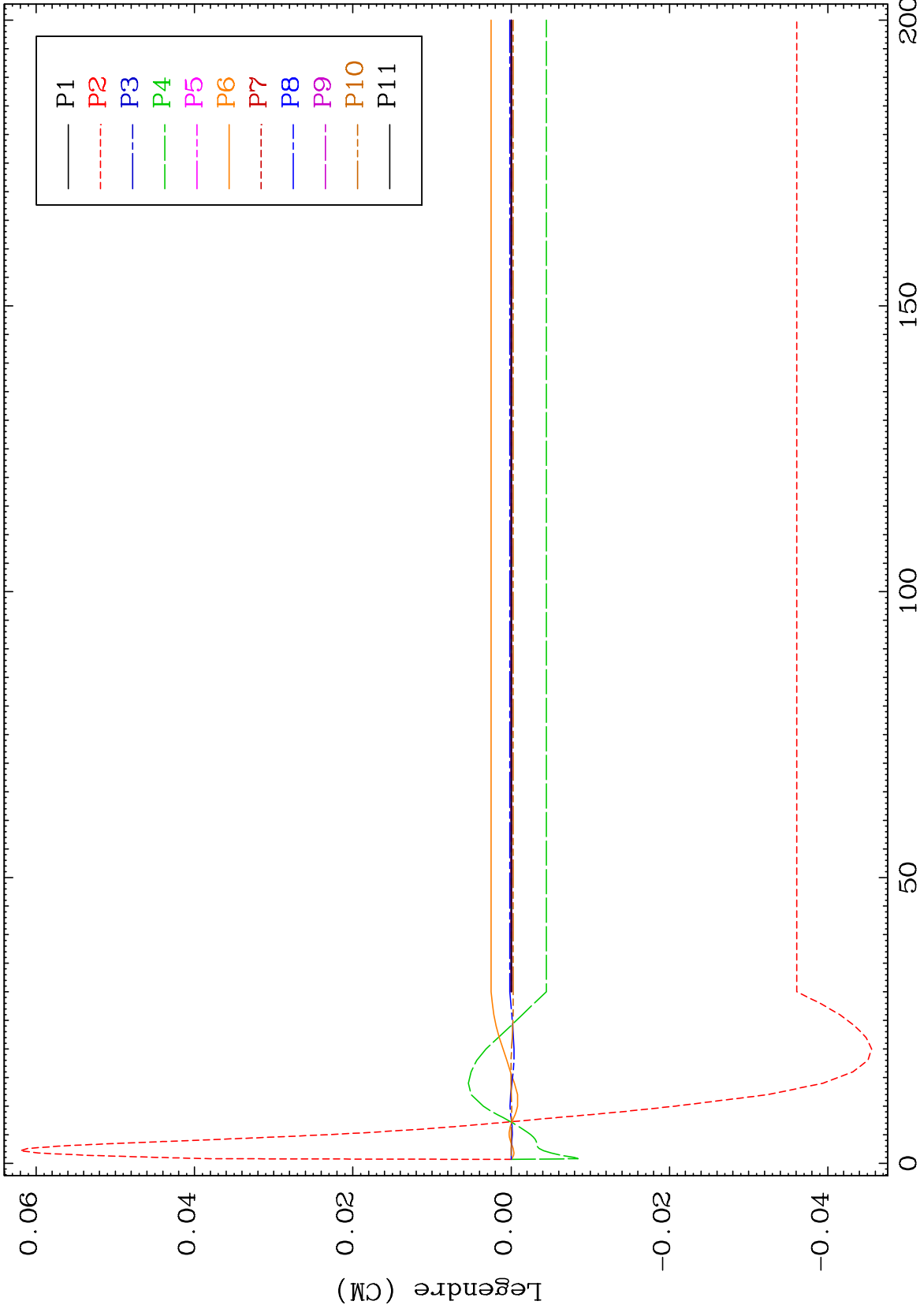
Incident Energy (MeV)

57

MAT 7062

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

71-Lu-154



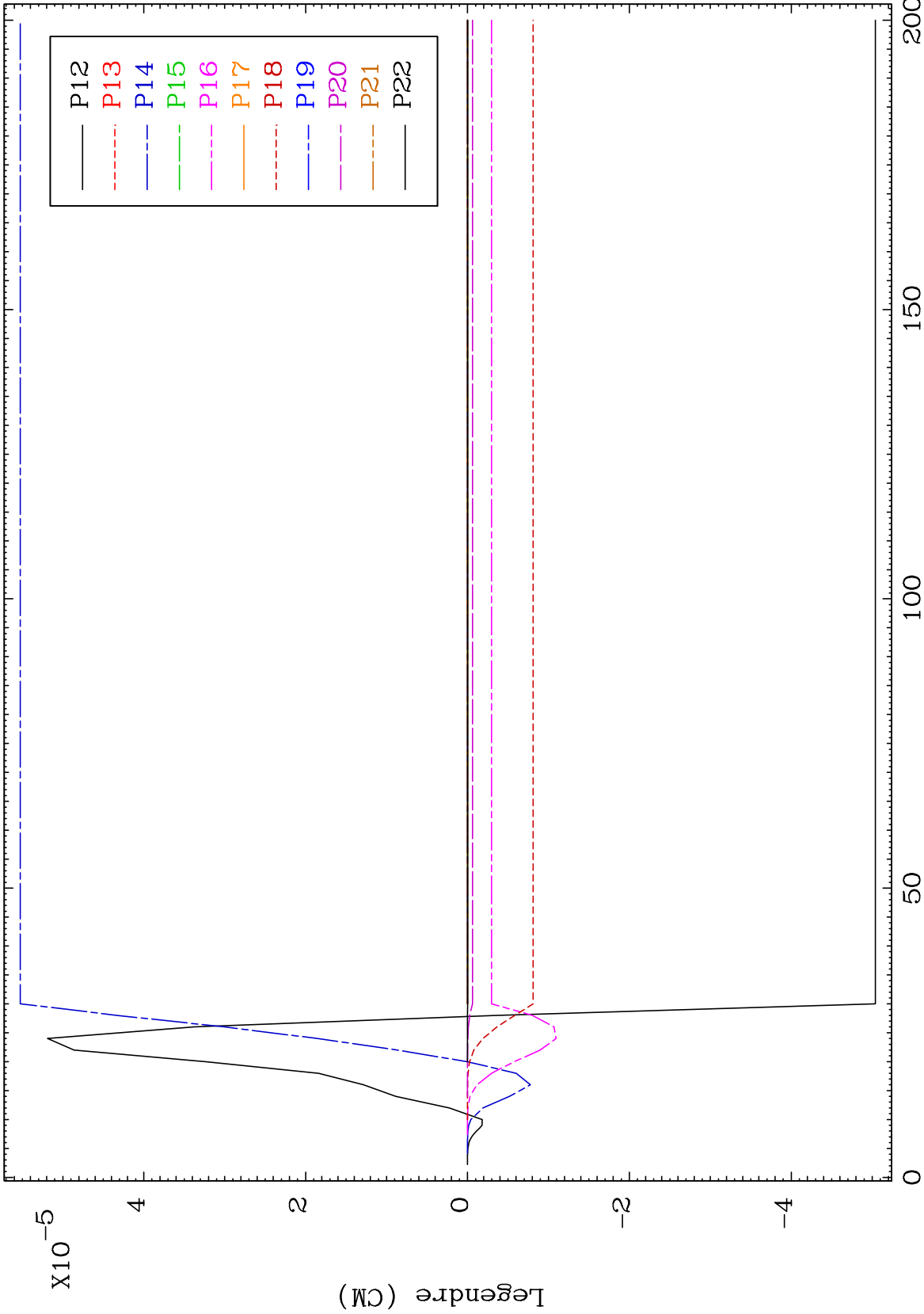
58

71-Lu-154

MAT 7062

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

71-Lu-154



59

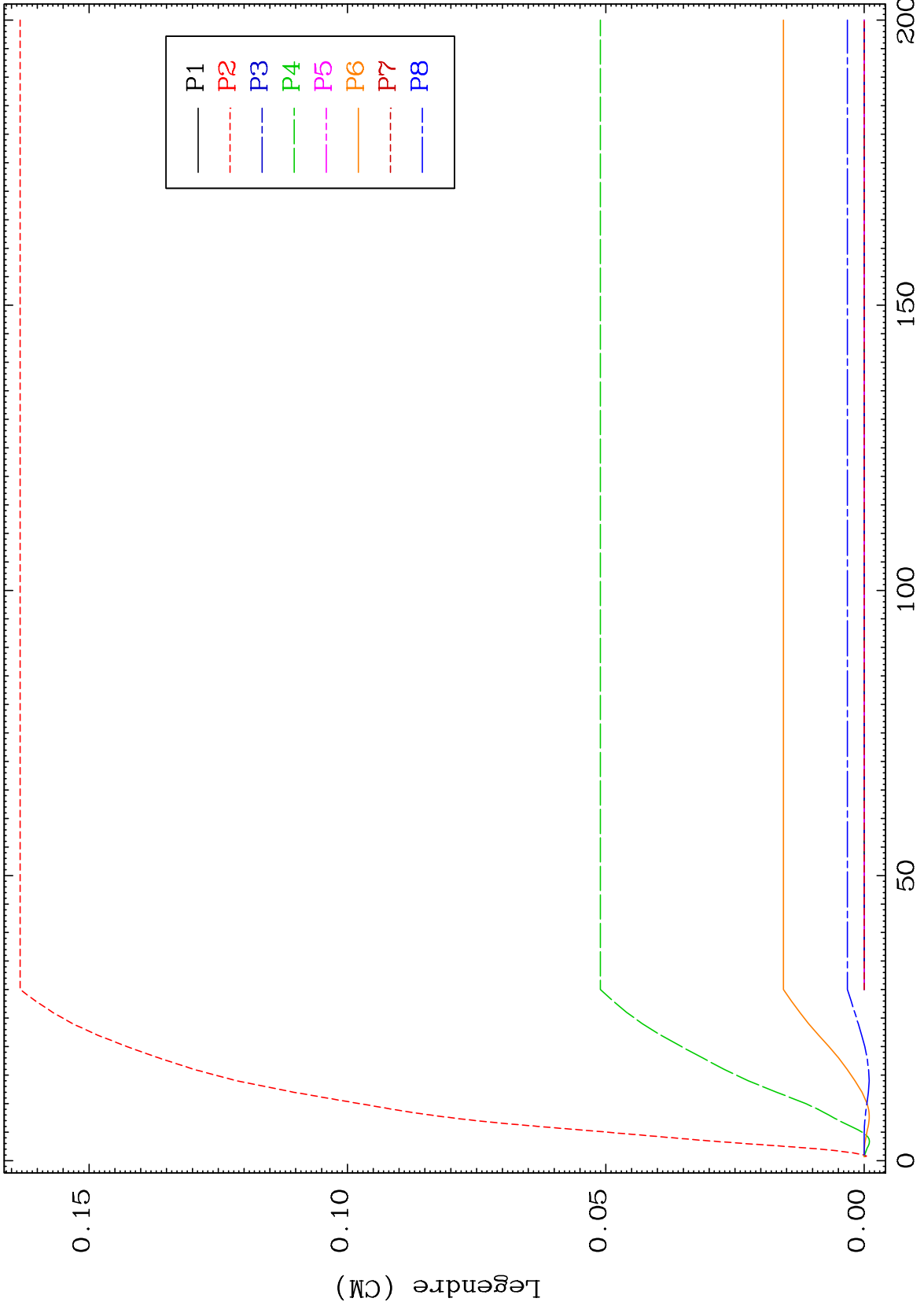
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



60

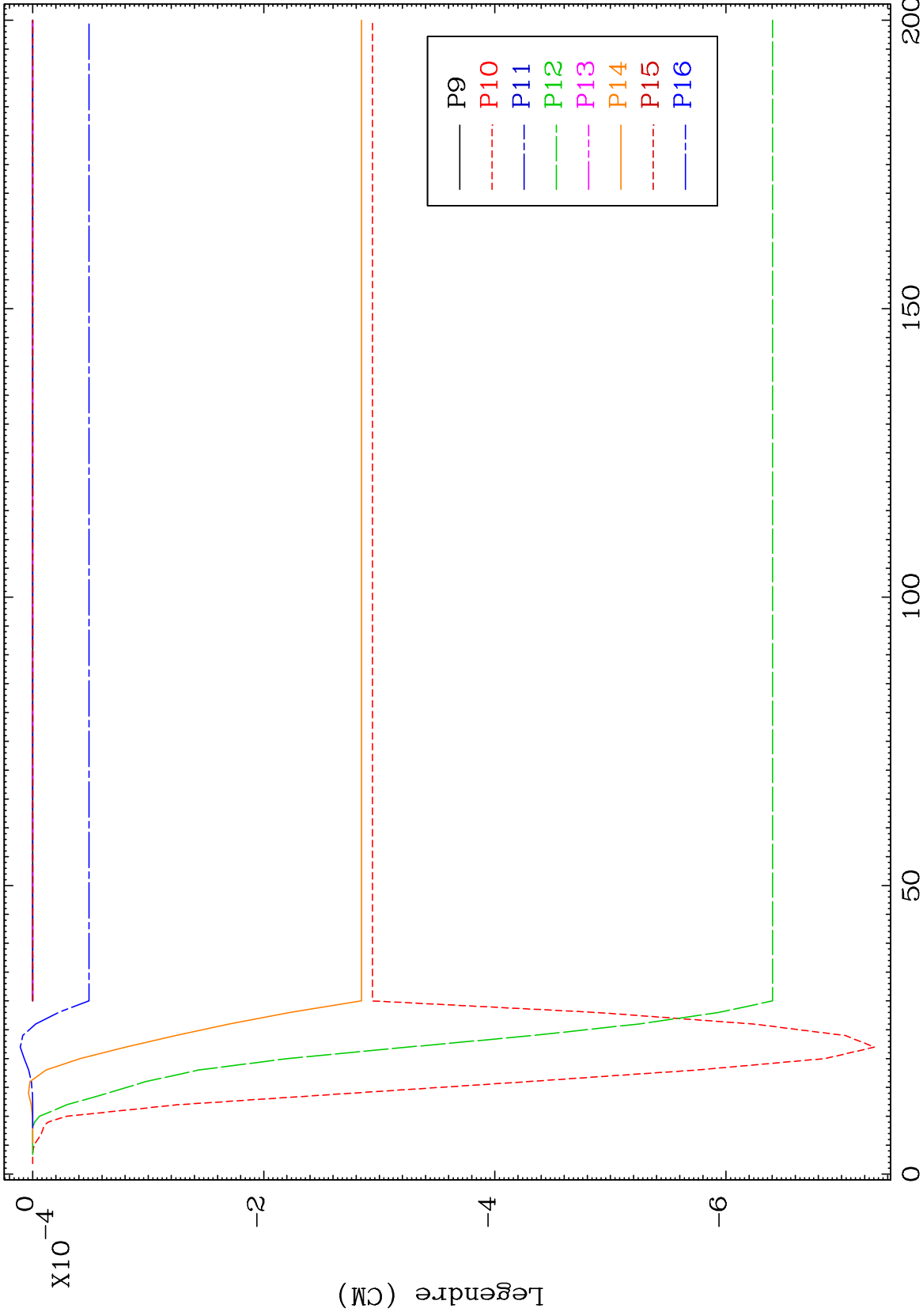
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154

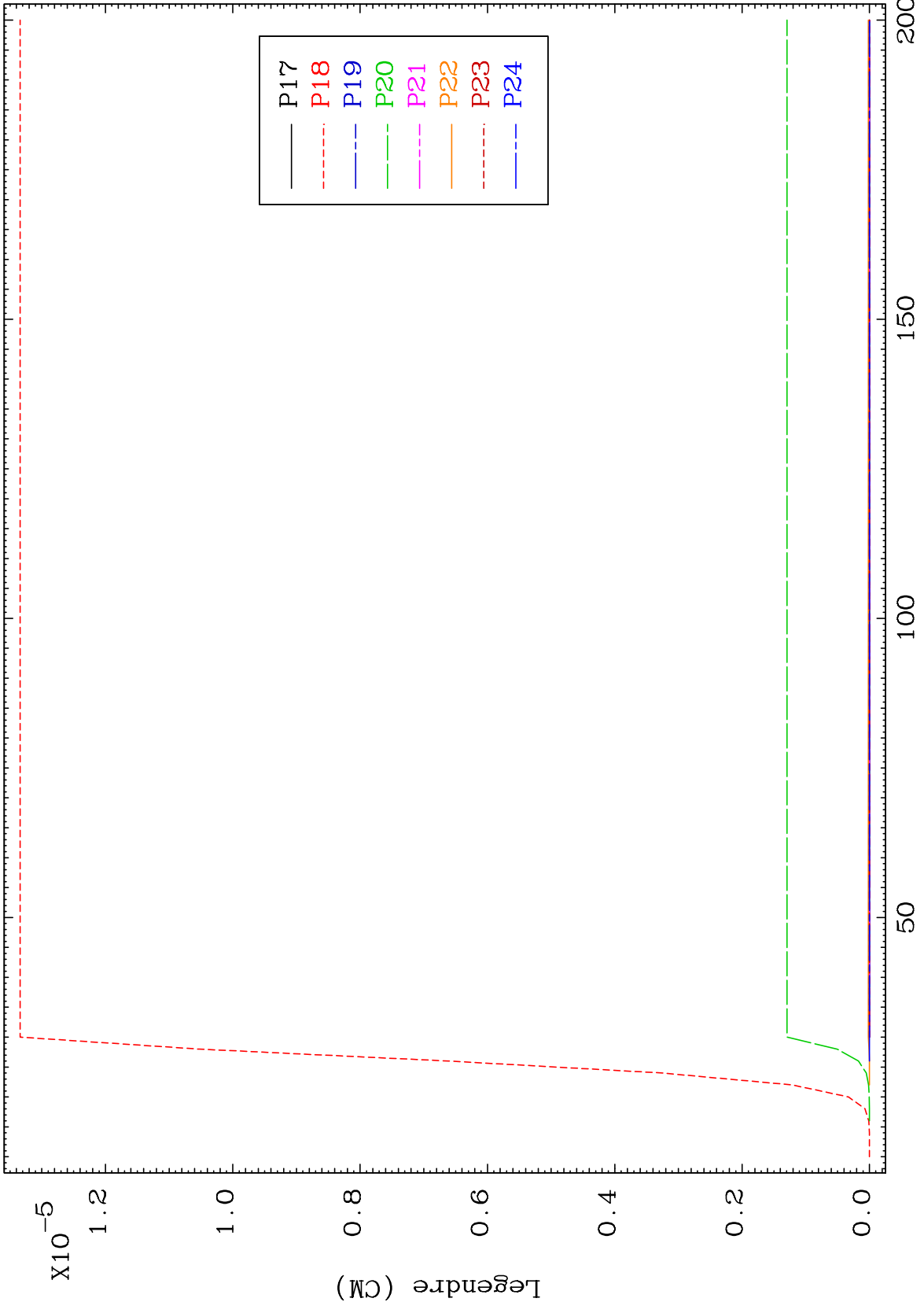


61

Incident Energy (MeV)

71-Lu-154

MAT 7062 MT= 63 (n,n') Level Legendre Coefficients 71-Lu-154

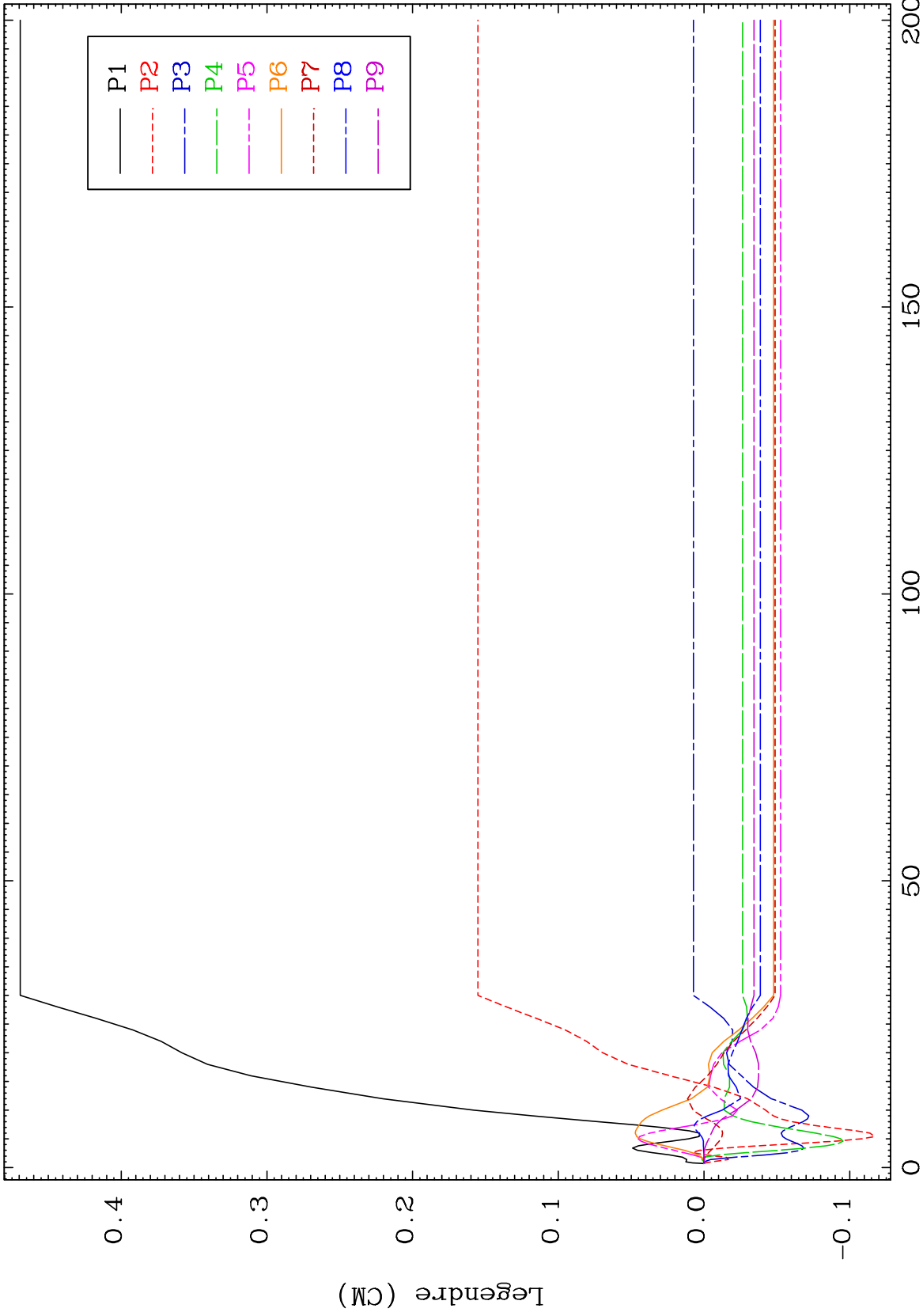


62 Incident Energy (MeV) 71-Lu-154

MAT 7062

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

71-Lu-154



63

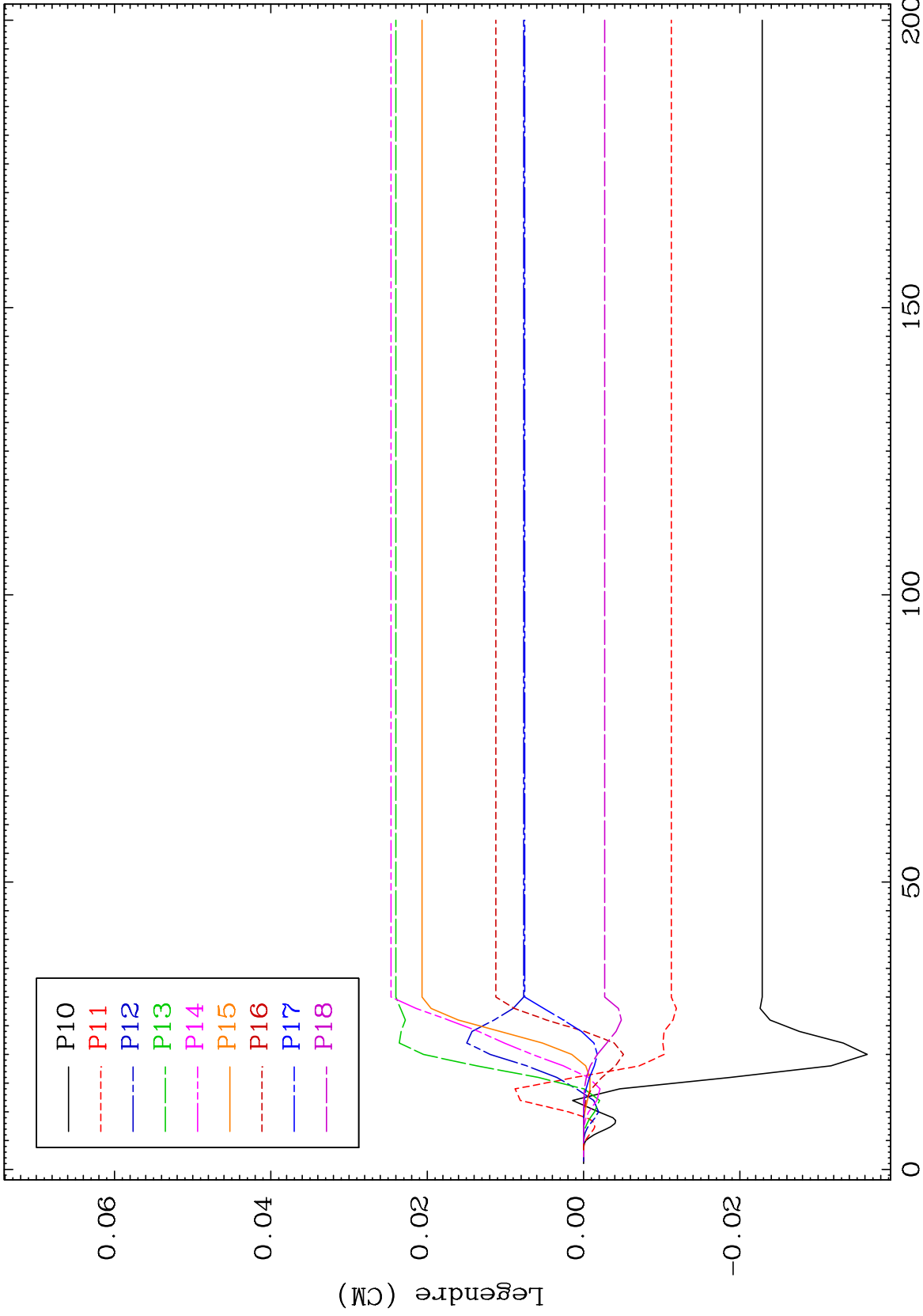
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



64

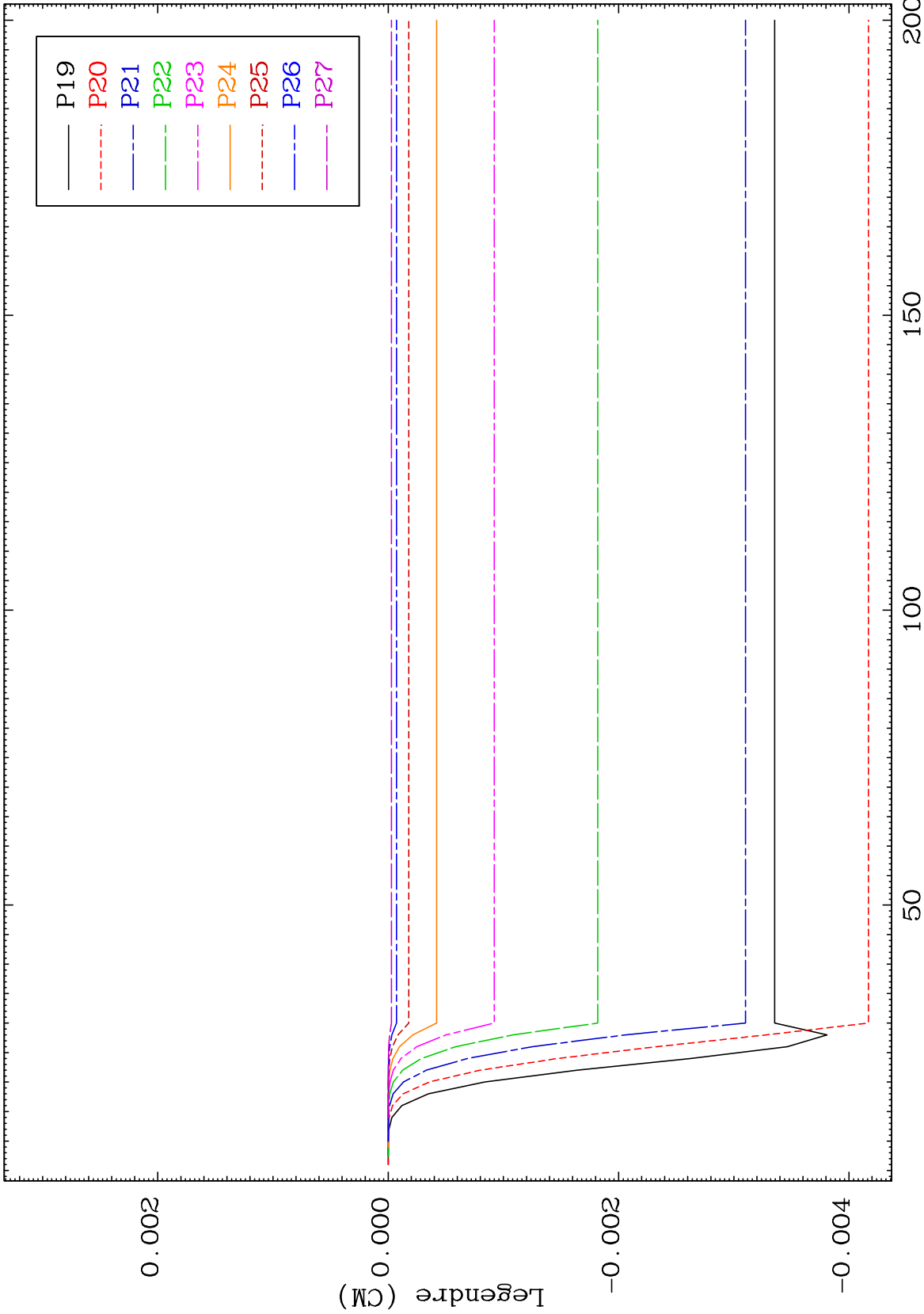
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



65

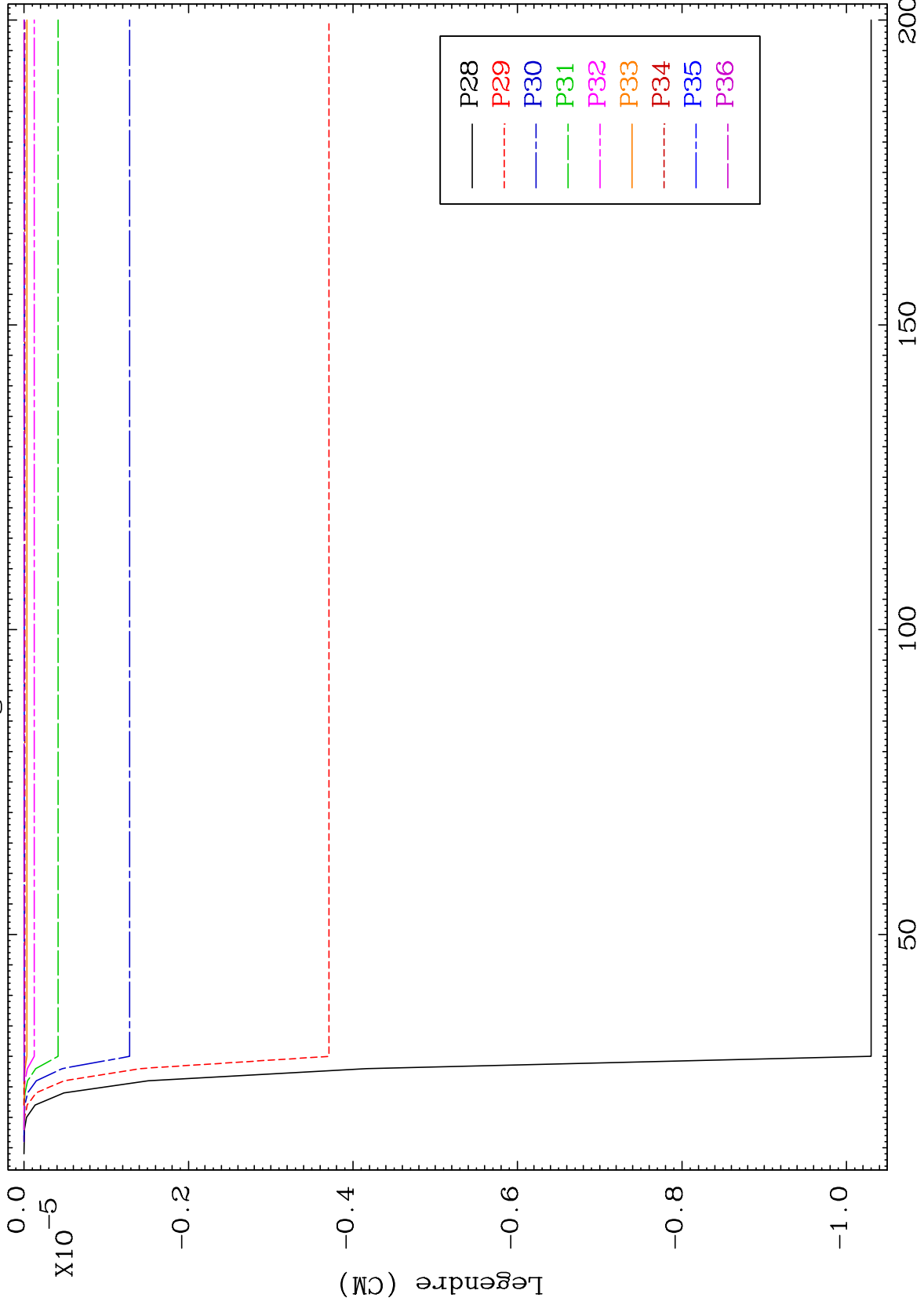
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



71-Lu-154

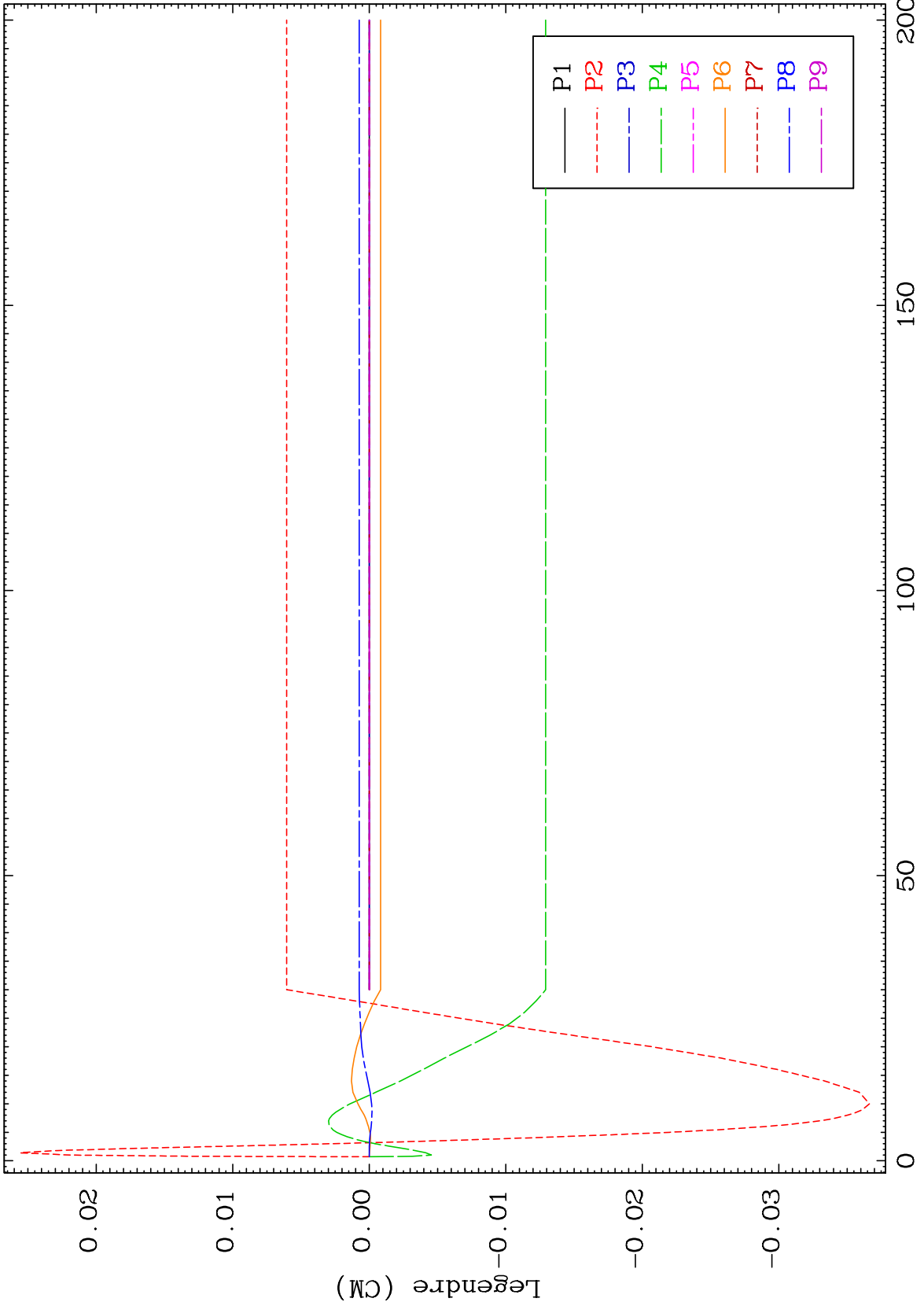
Incident Energy (MeV)

66

MAT 7062

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

71-Lu-154



67

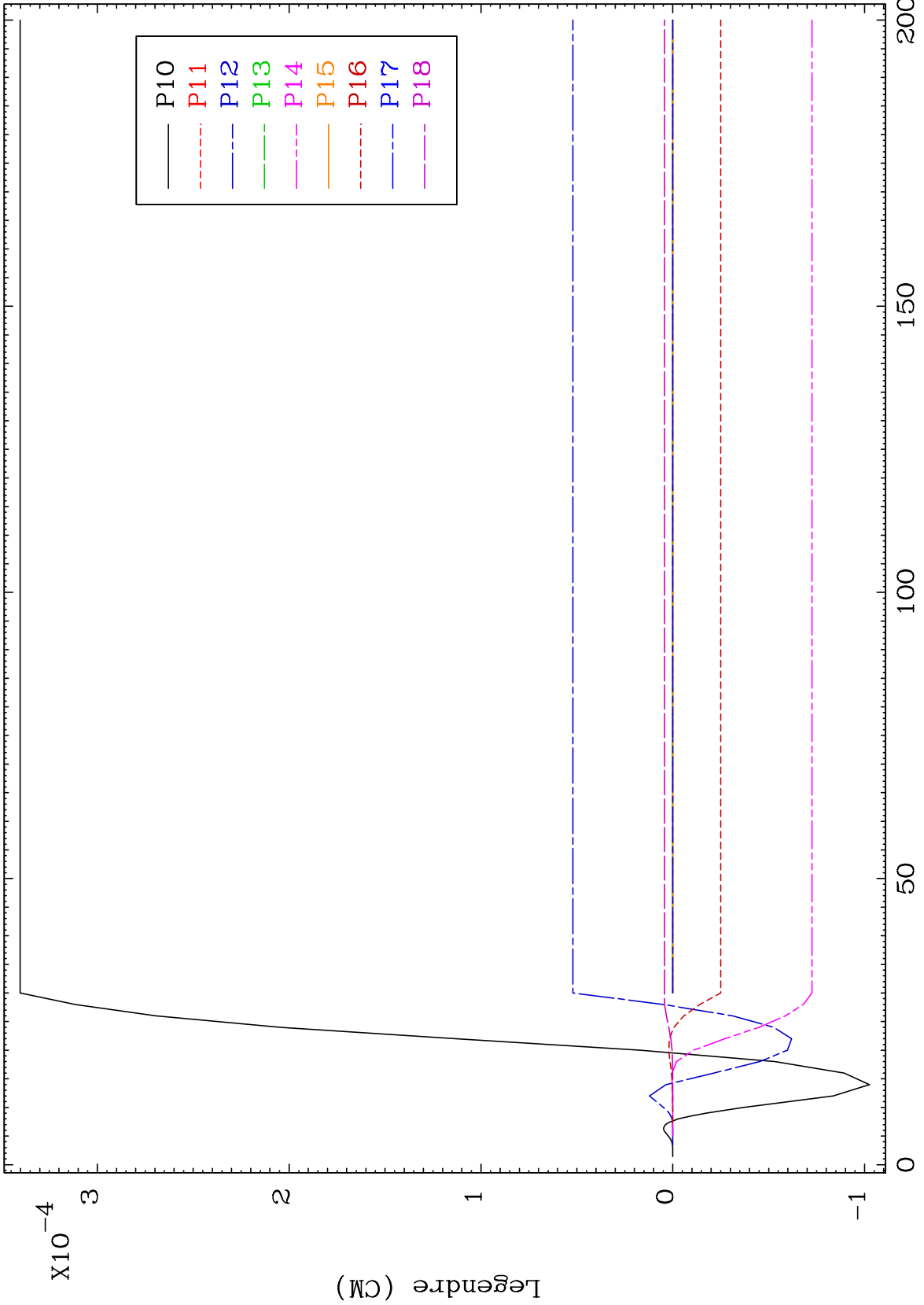
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



68

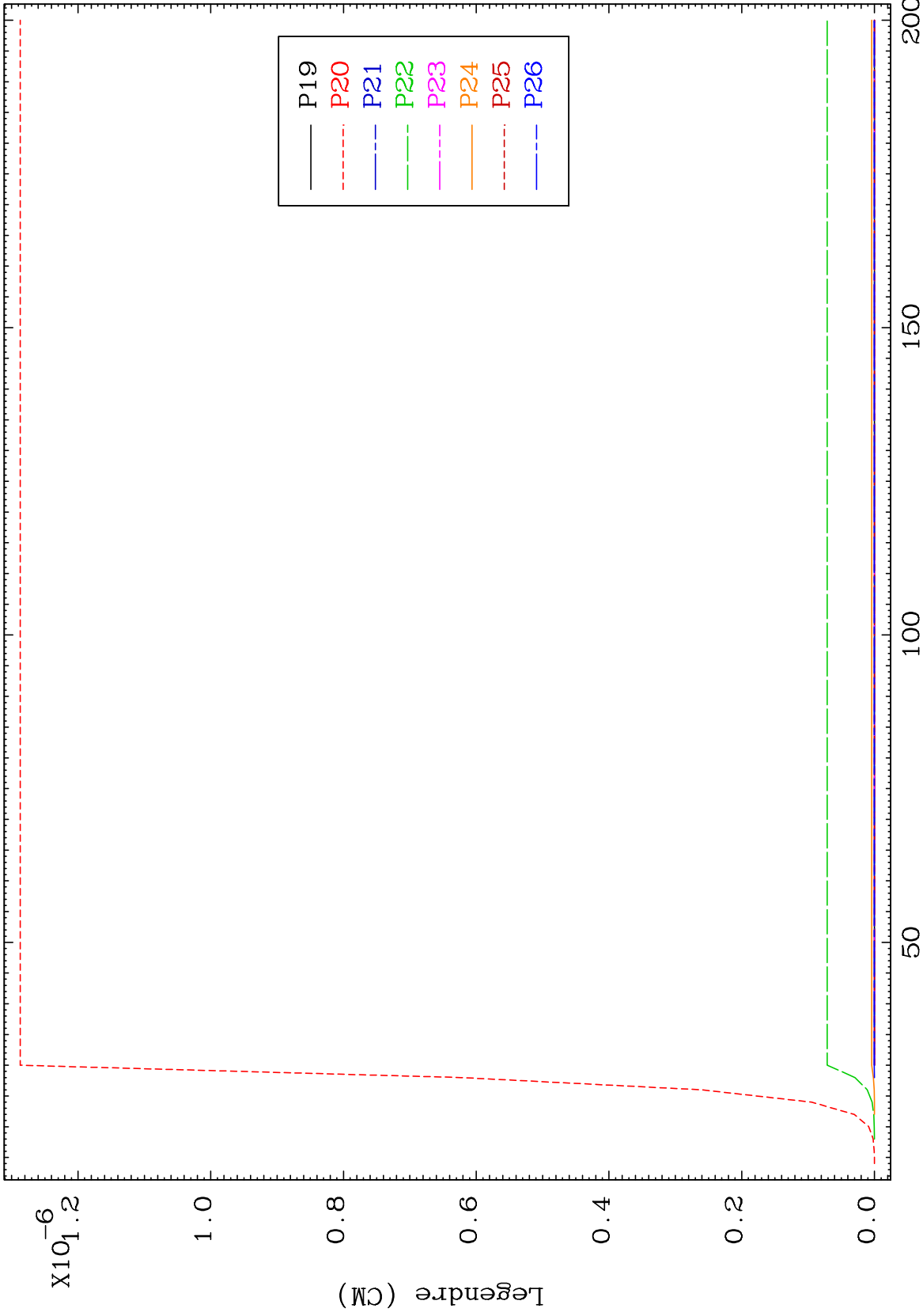
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



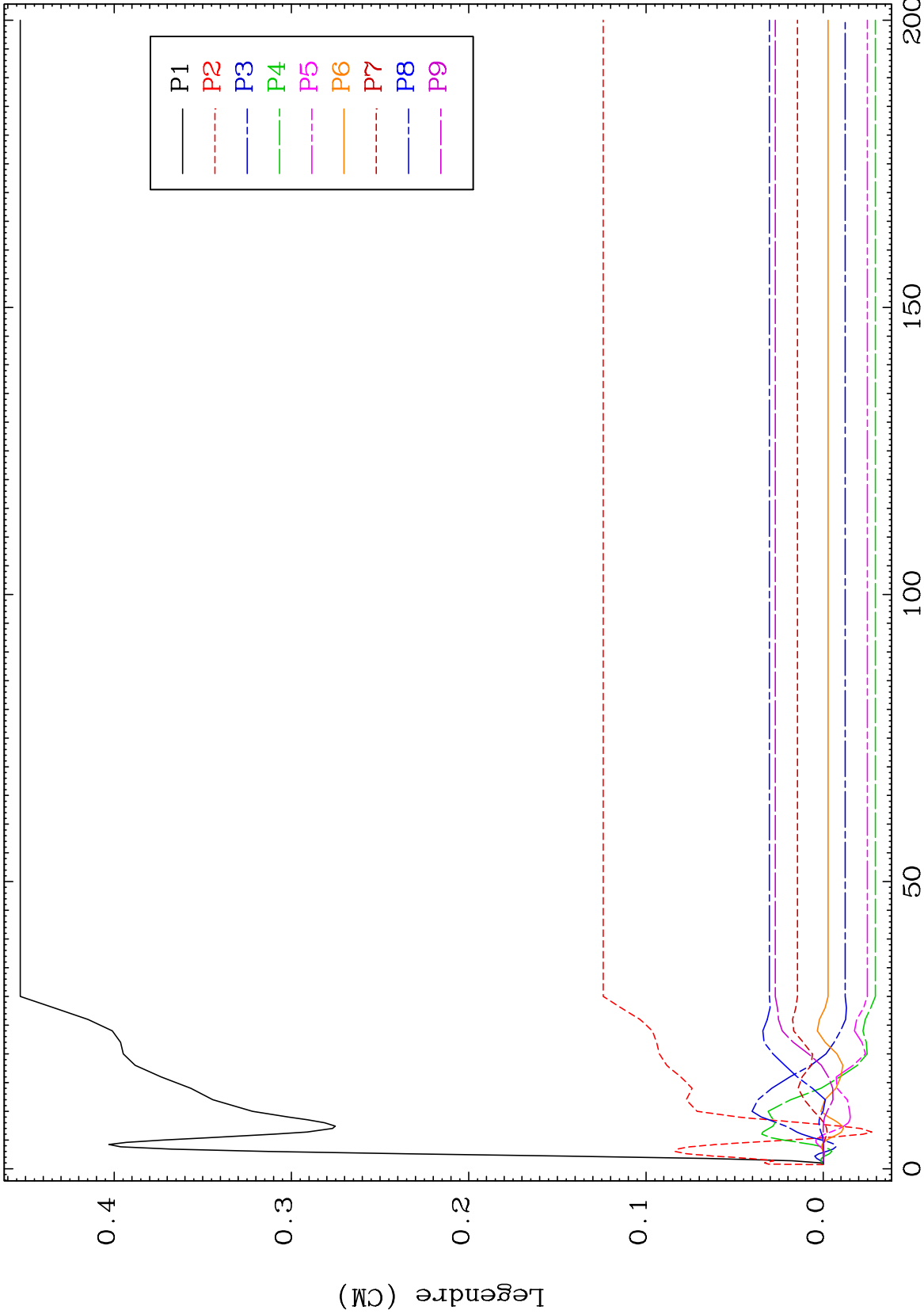
69

71-Lu-154

MAT 7062

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

71-Lu-154



70

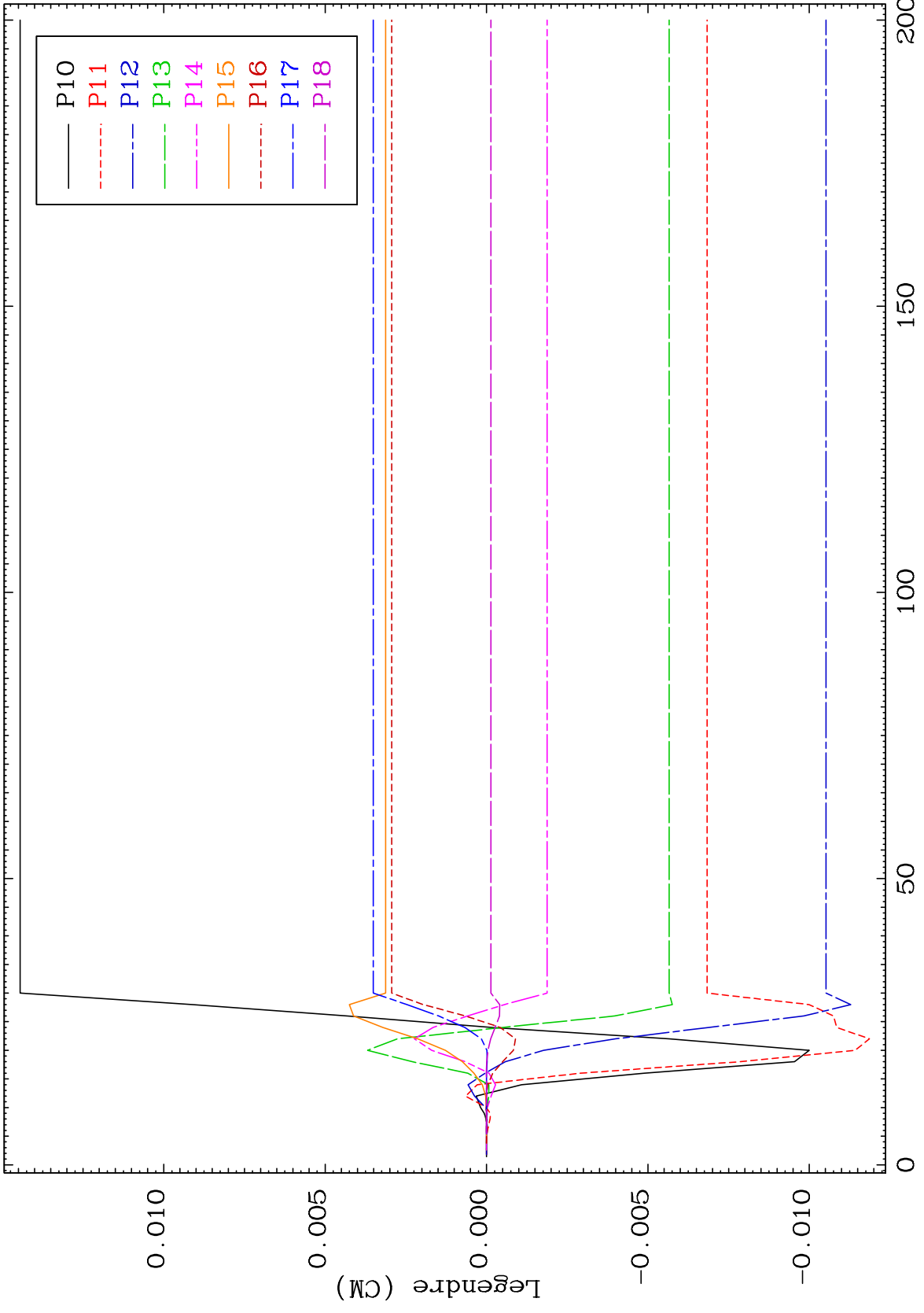
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



71

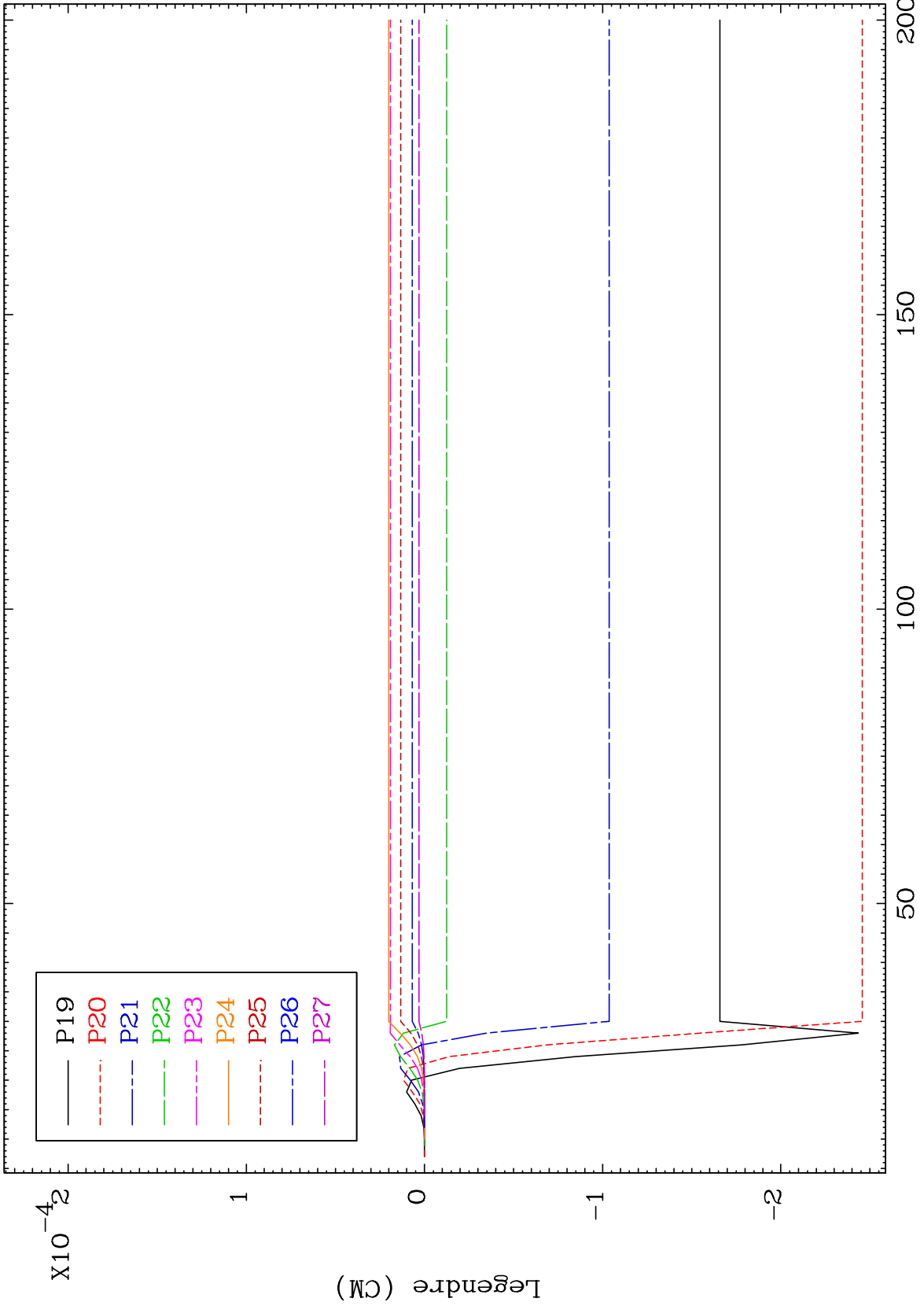
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



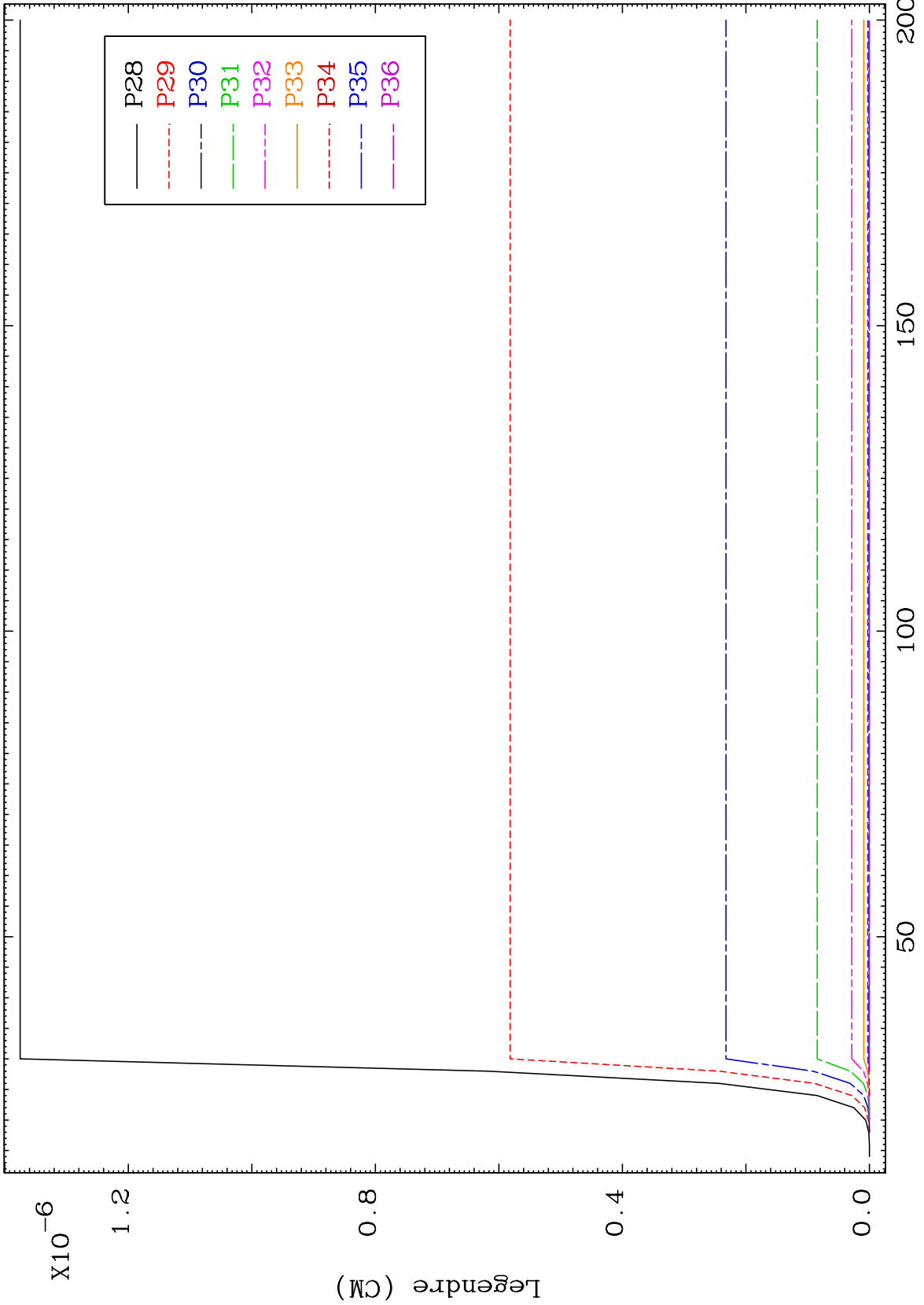
72

71-Lu-154

MAT 7062

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

71-Lu-154



73

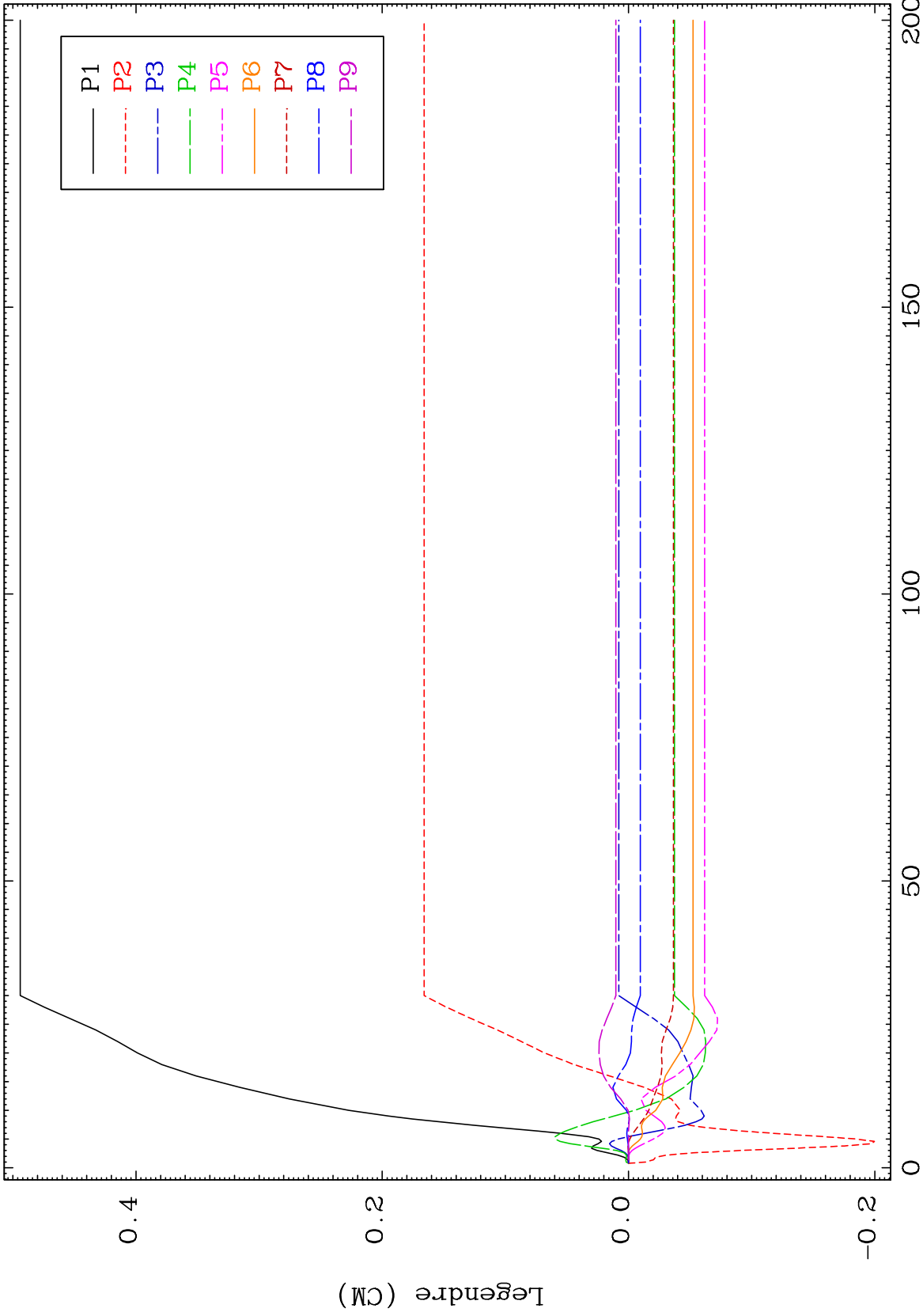
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



74

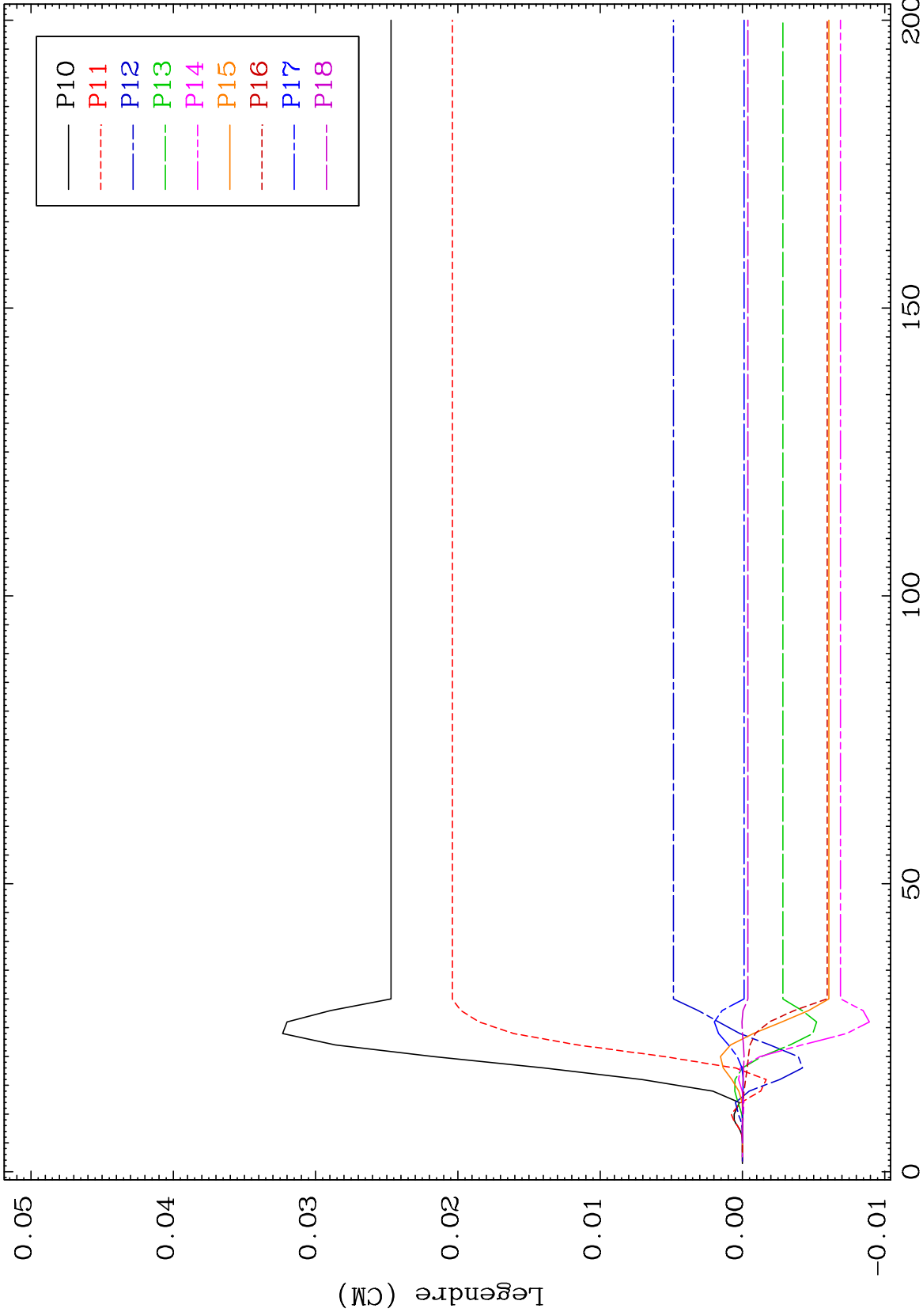
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



75

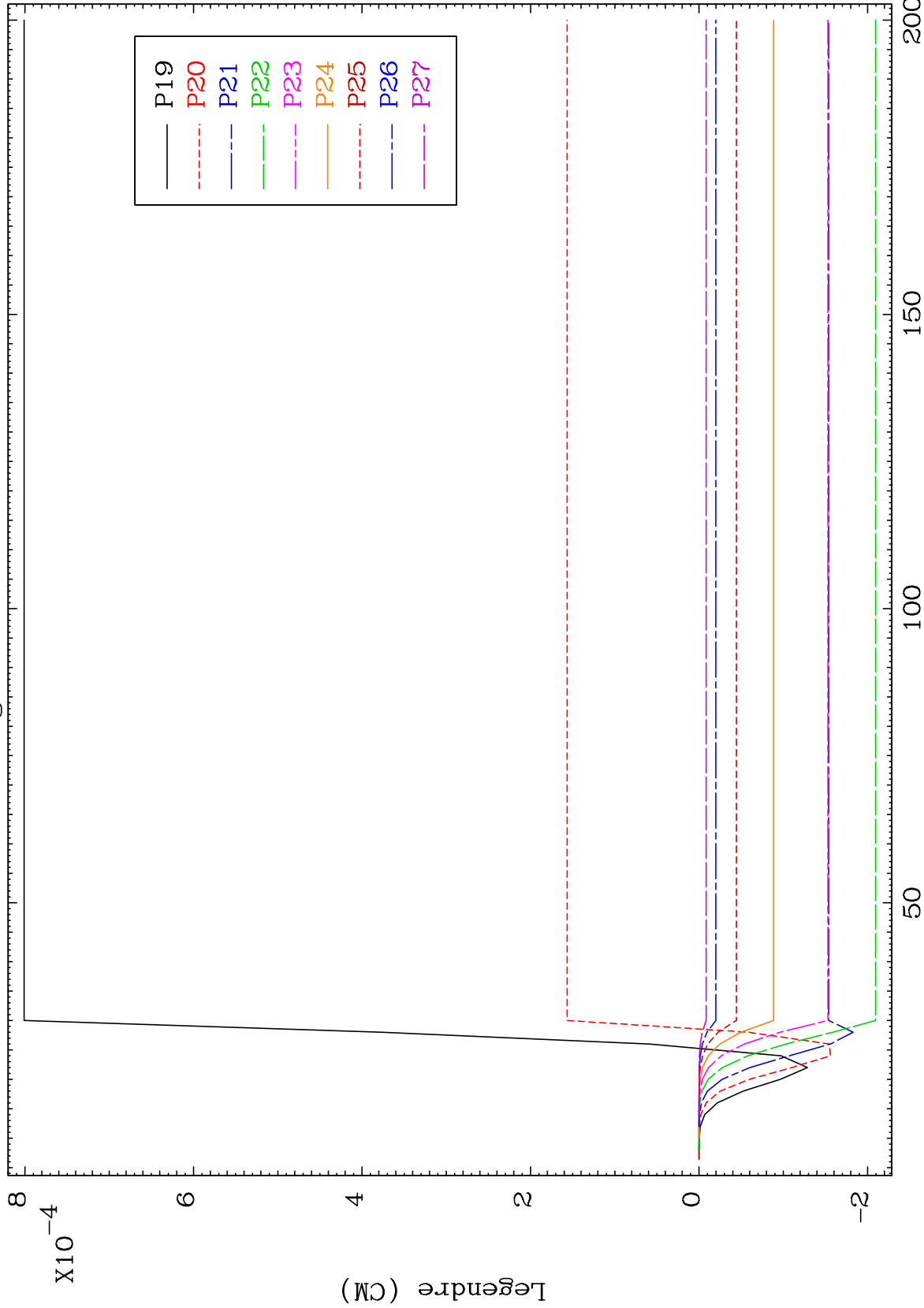
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



76

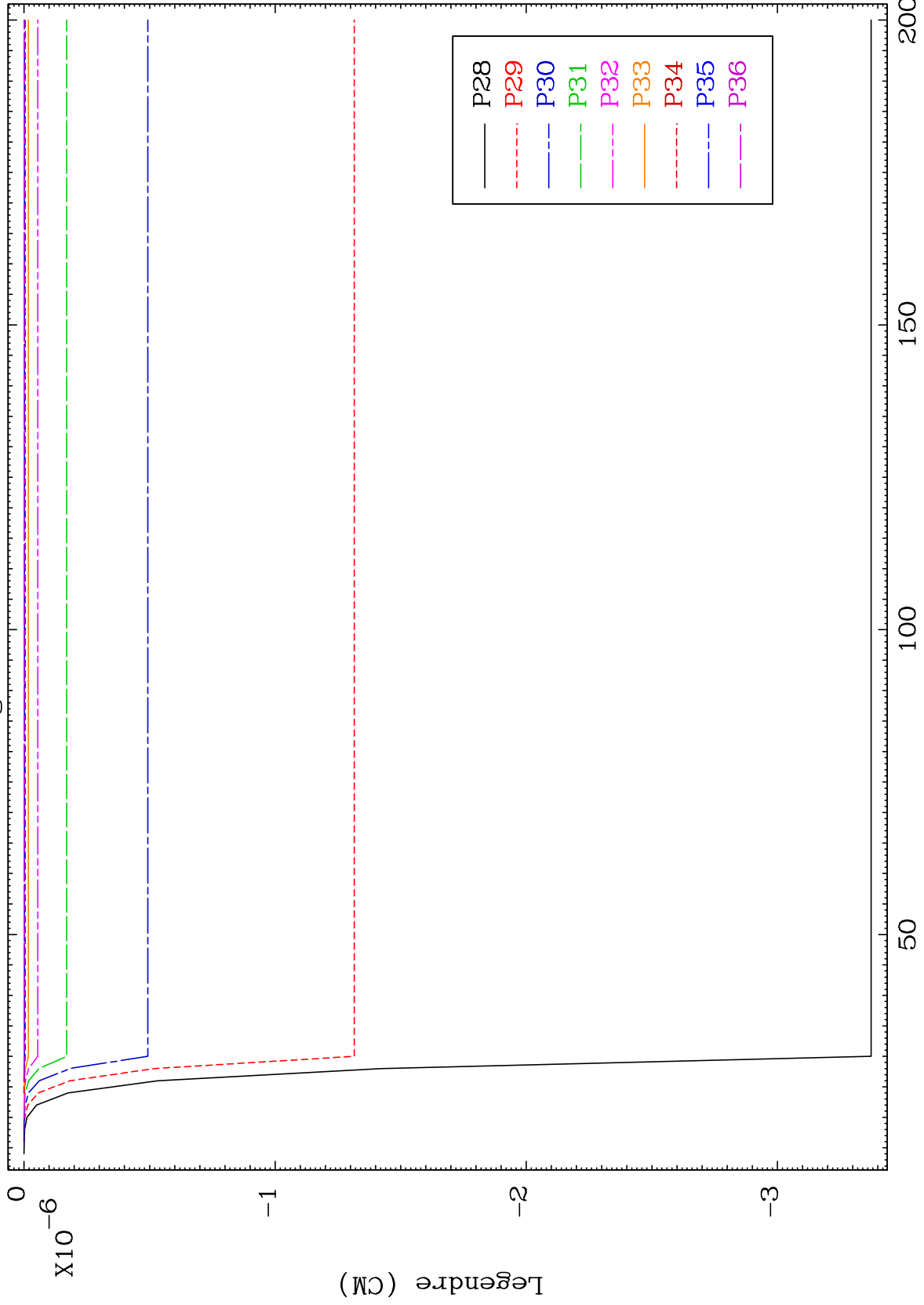
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154

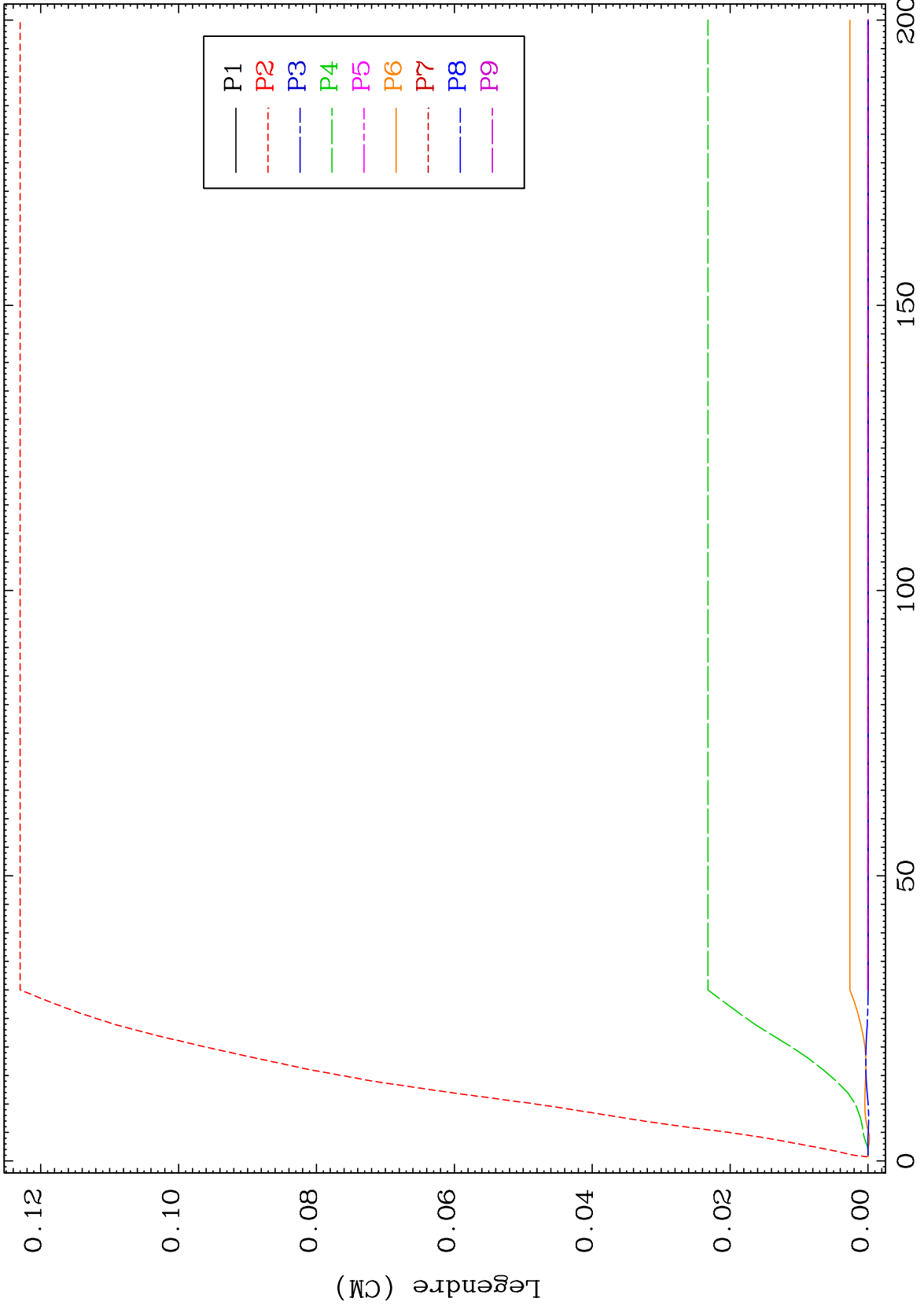


71-Lu-154

Incident Energy (MeV)

77

MAT 7062 MT= 68 (n,n') Level Legendre Coefficients 71-Lu-154

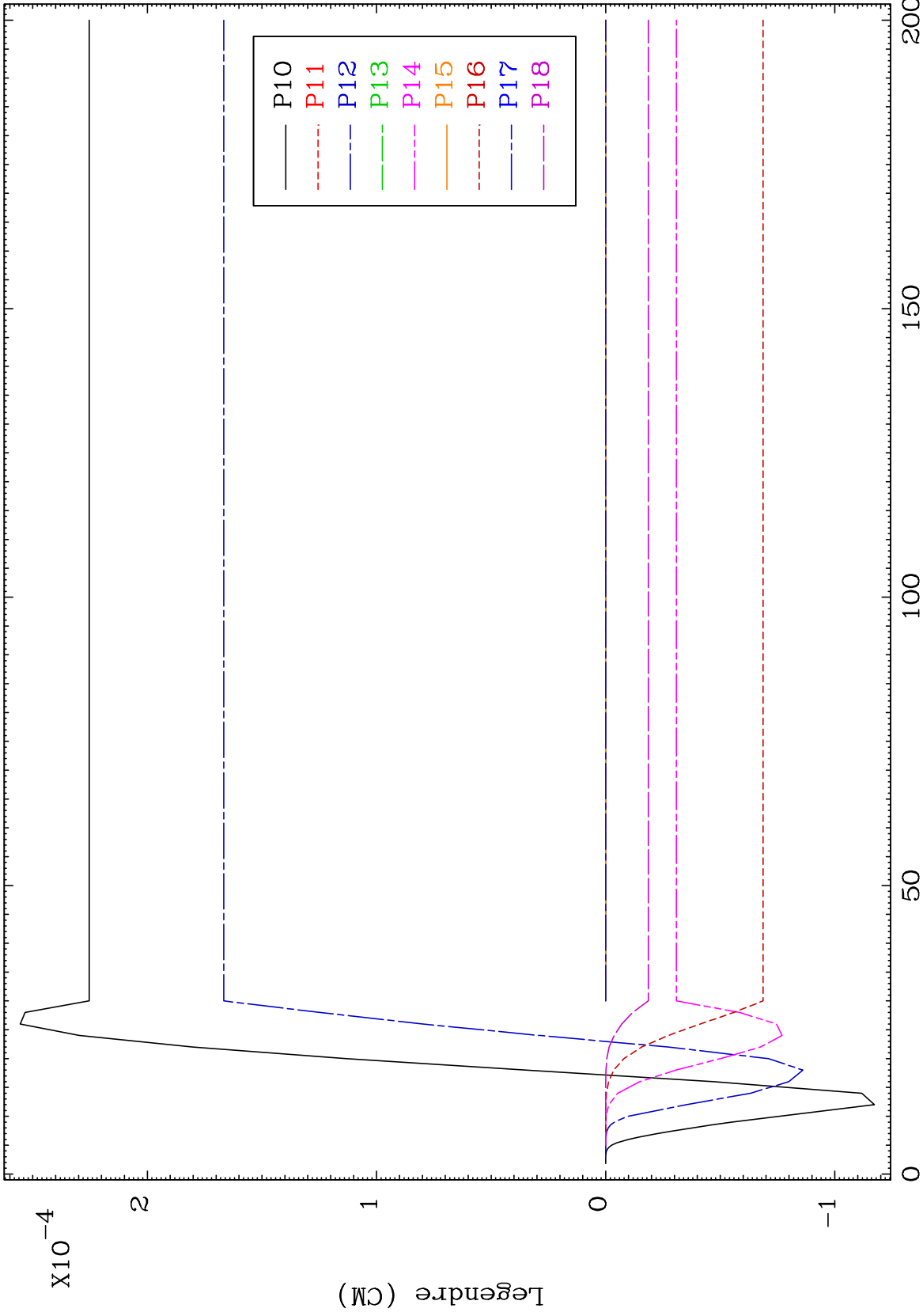


78 71-Lu-154

MAT 7062

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

71-Lu-154



79

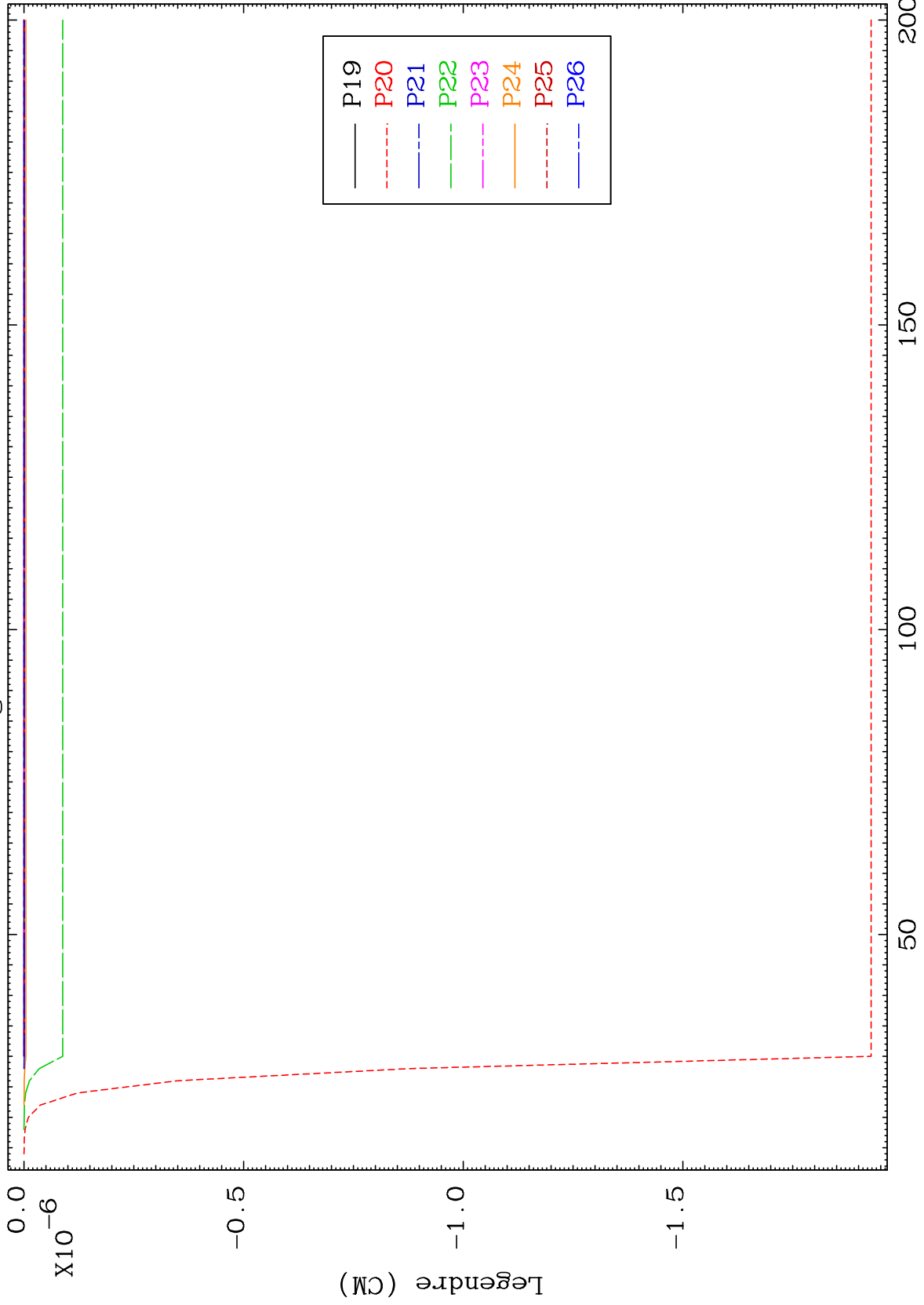
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



71-Lu-154

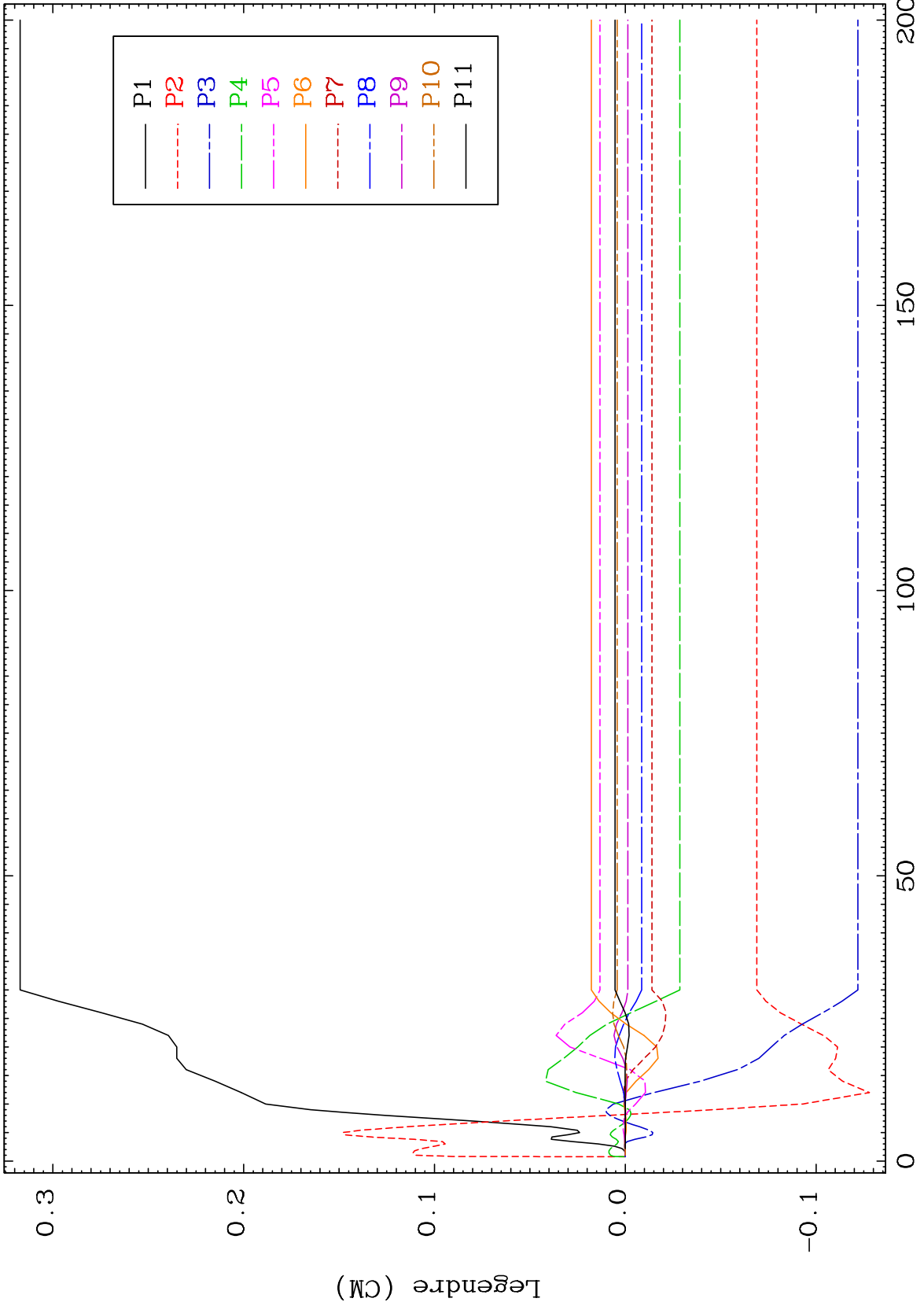
Incident Energy (MeV)

80

MAT 7062

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

71-Lu-154



81

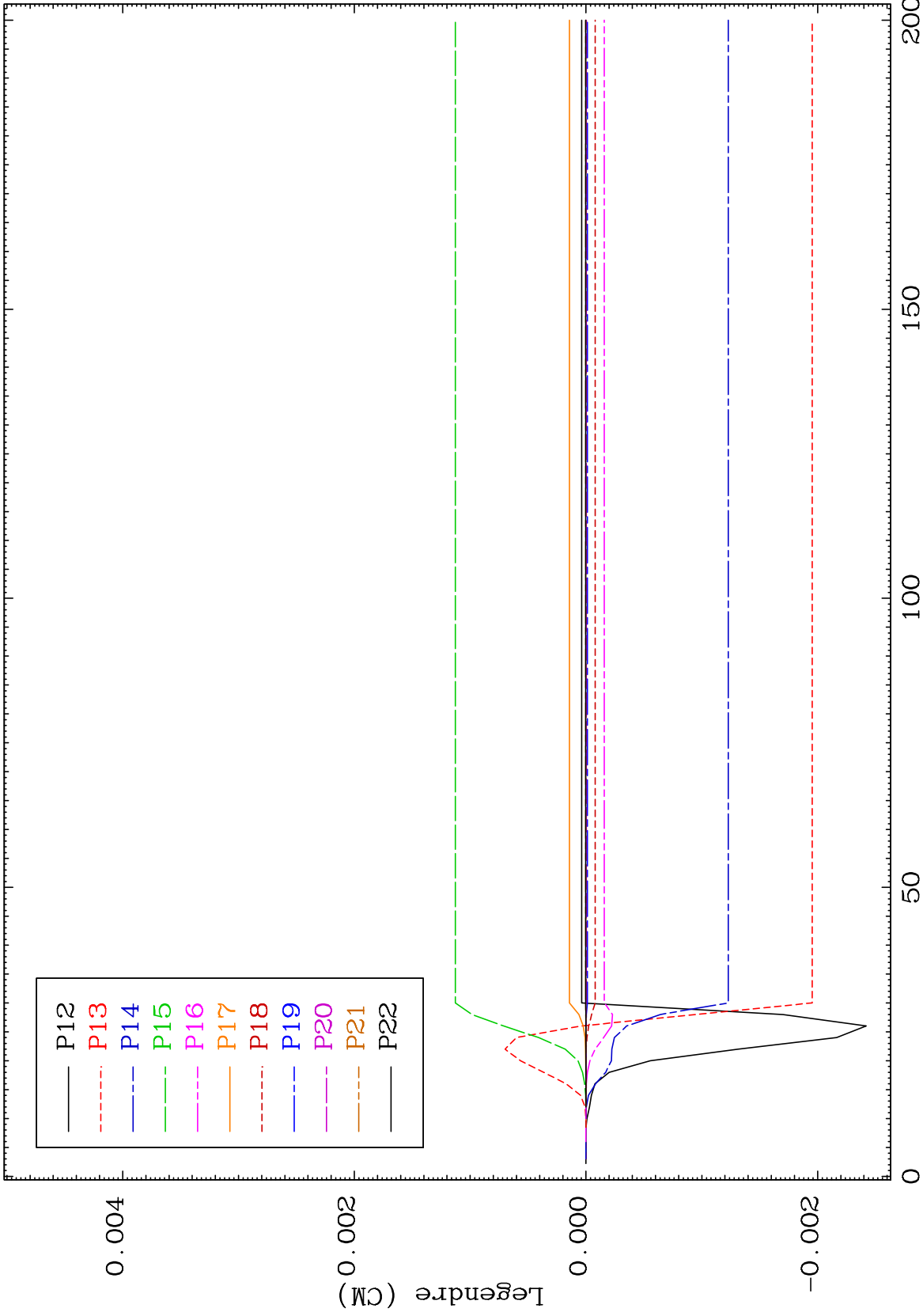
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

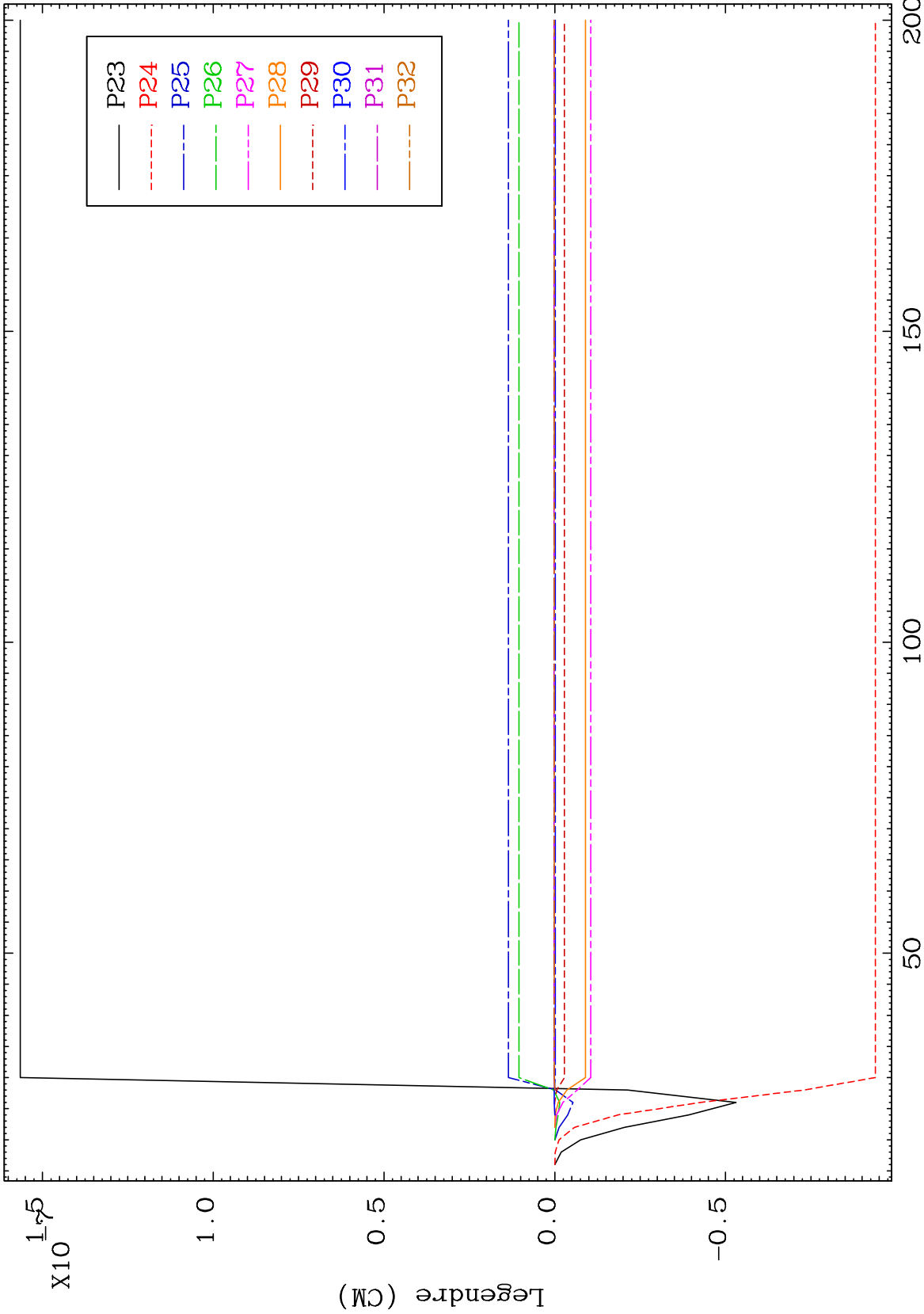
71-Lu-154



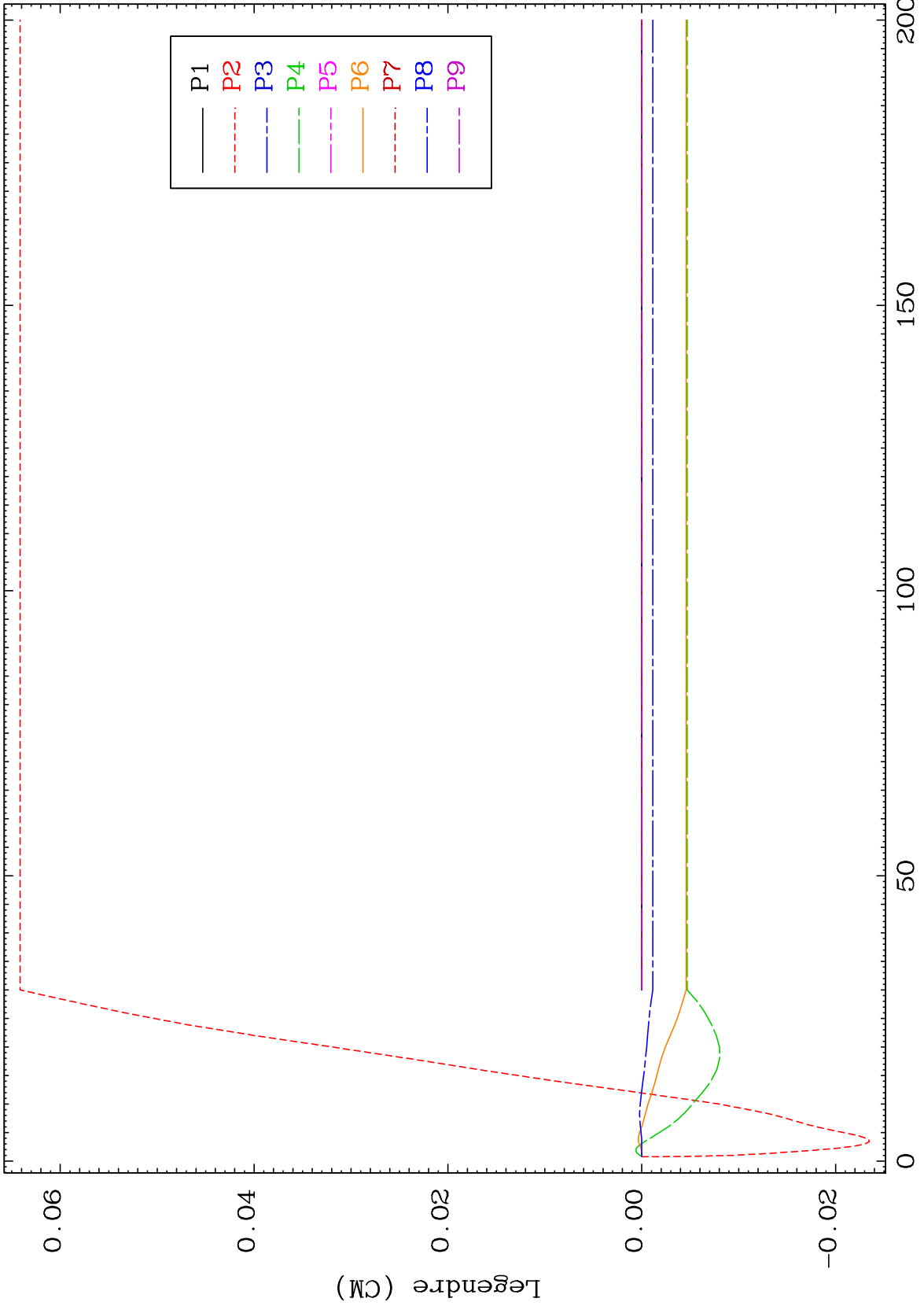
82

Incident Energy (MeV)

71-Lu-154



MAT 7062 MT= 70 (n,n') Level Legendre Coefficients 71-Lu-154

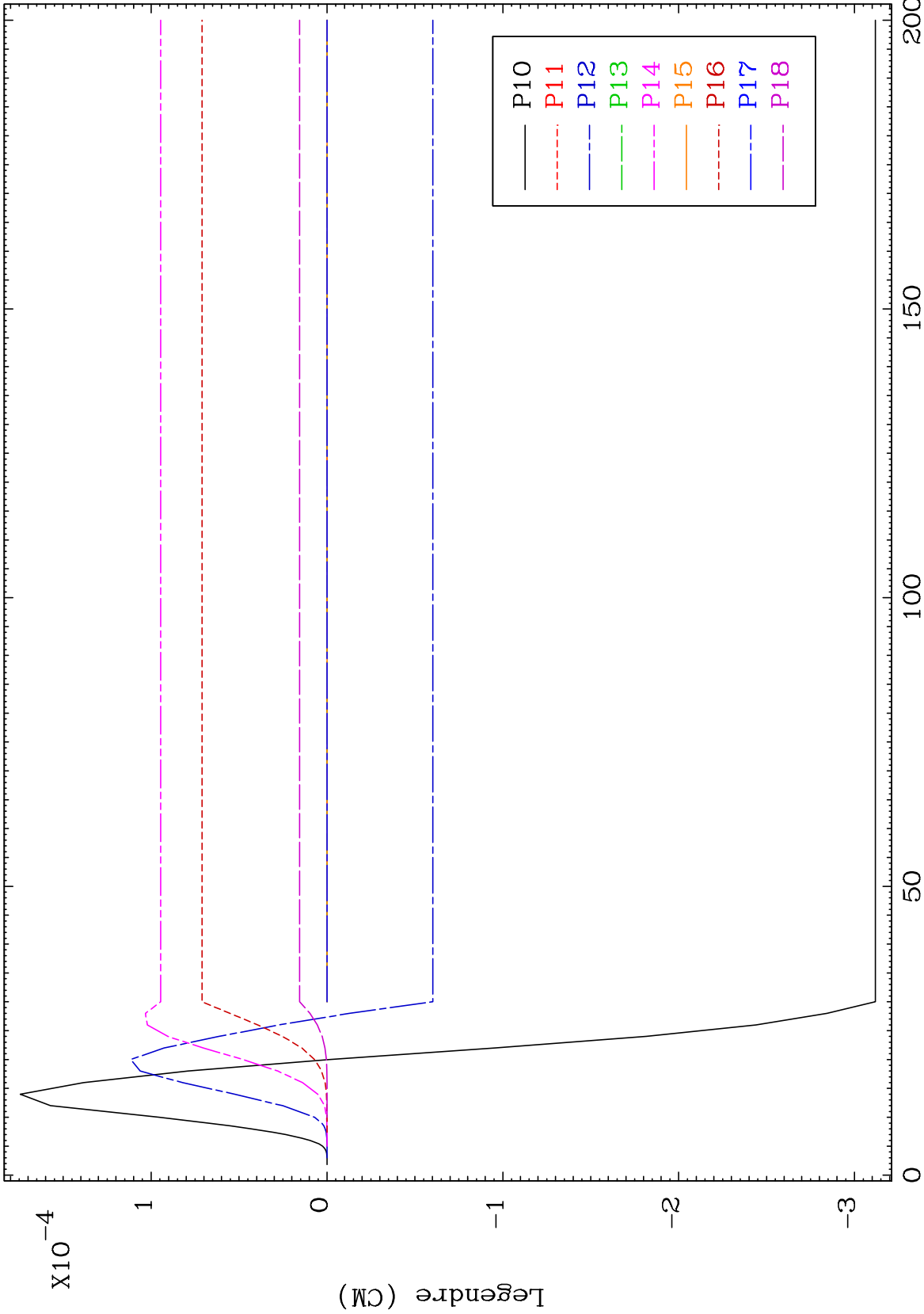


84 71-Lu-154

MAT 7062

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

71-Lu-154



85

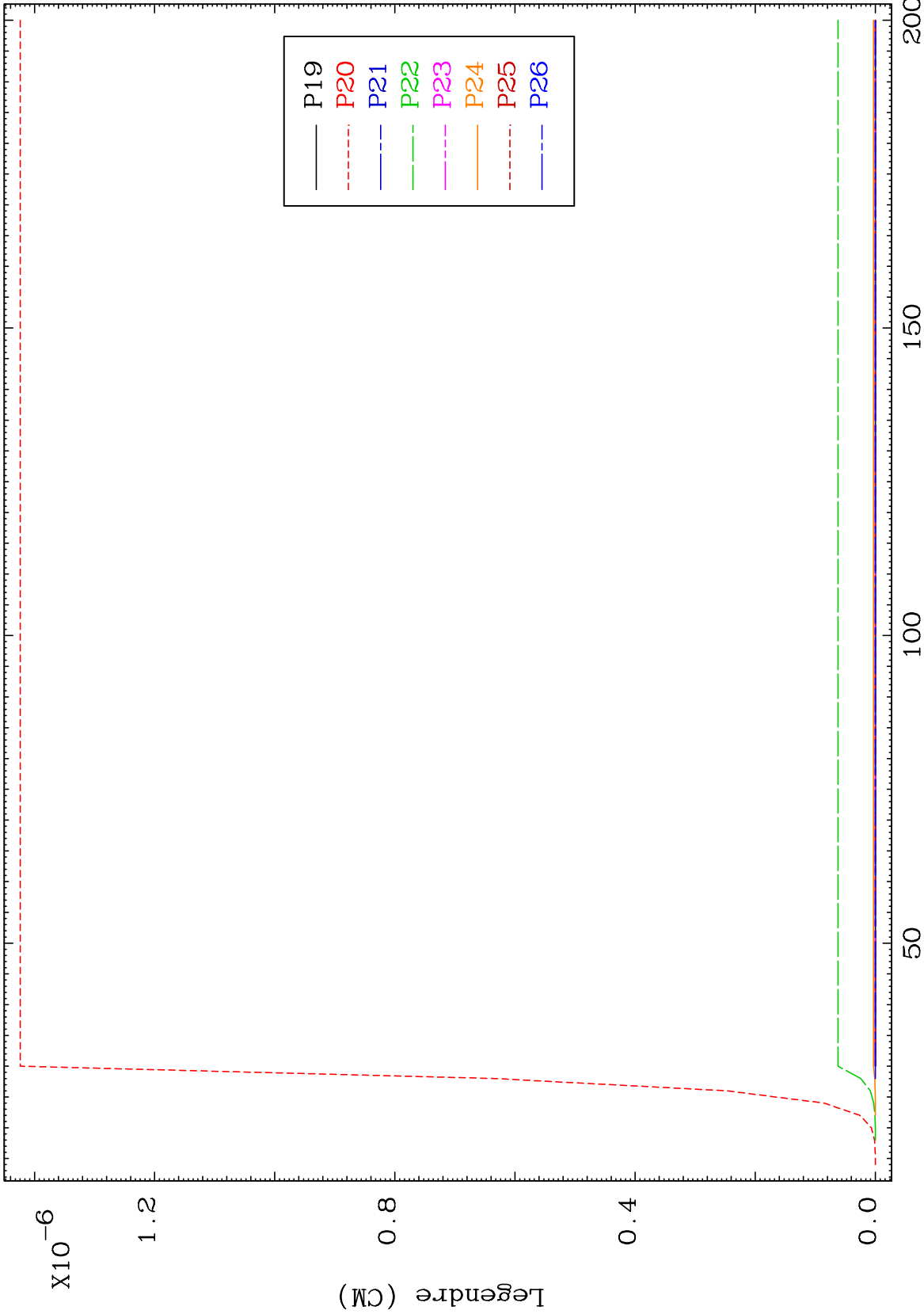
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

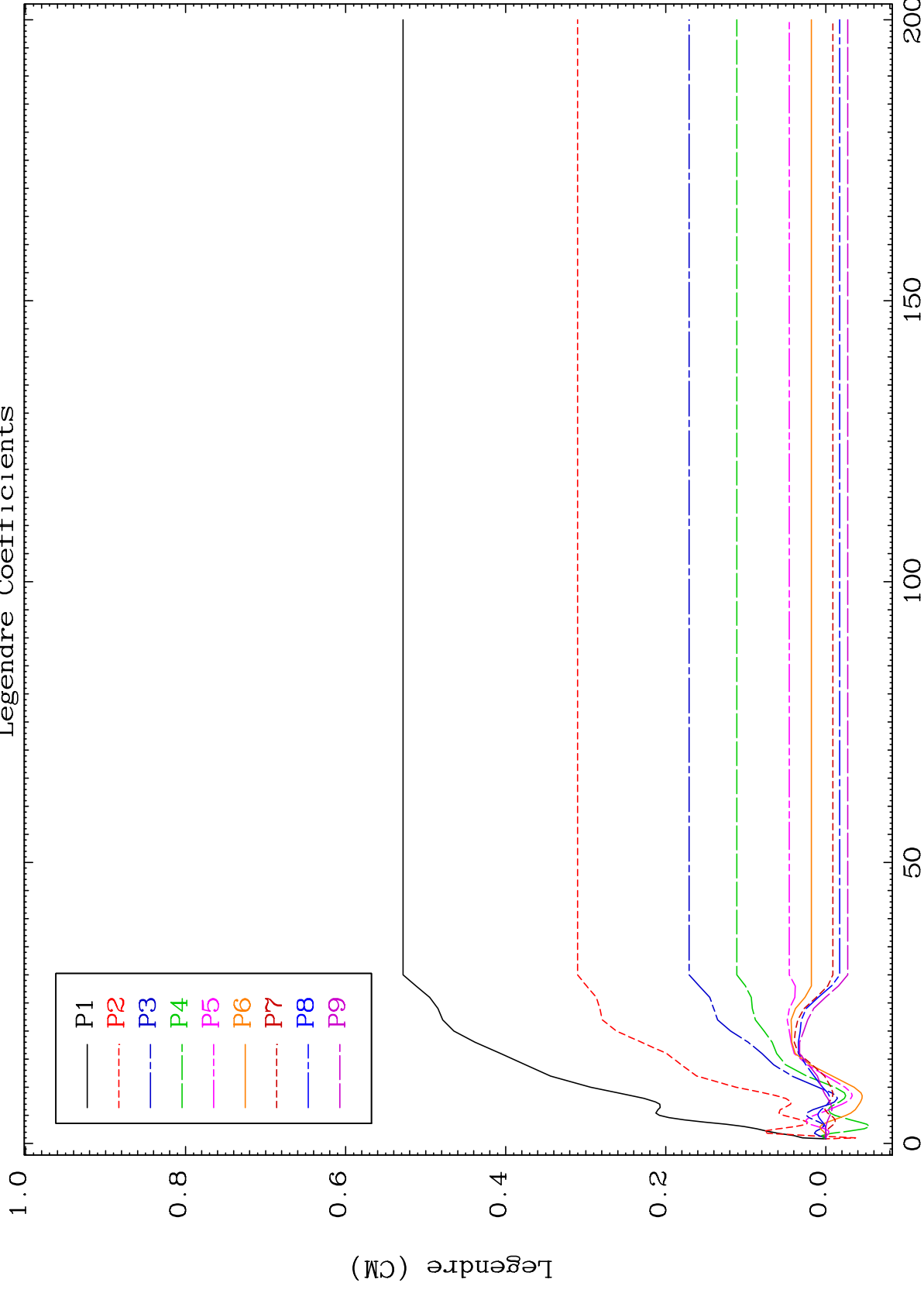
71-Lu-154



MAT 7062

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

71-Lu-154



71-Lu-154

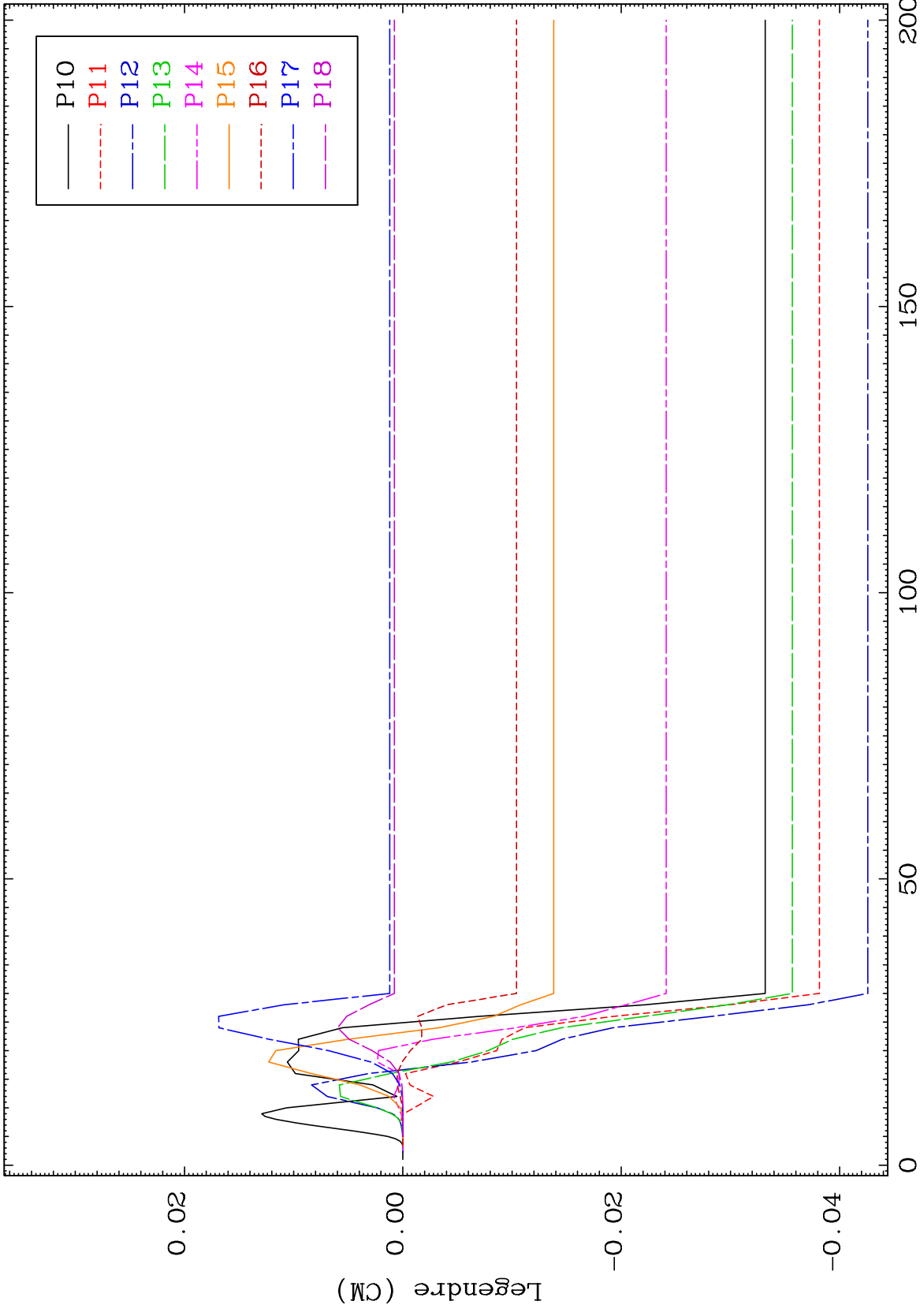
Incident Energy (MeV)

87

MAT 7062

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

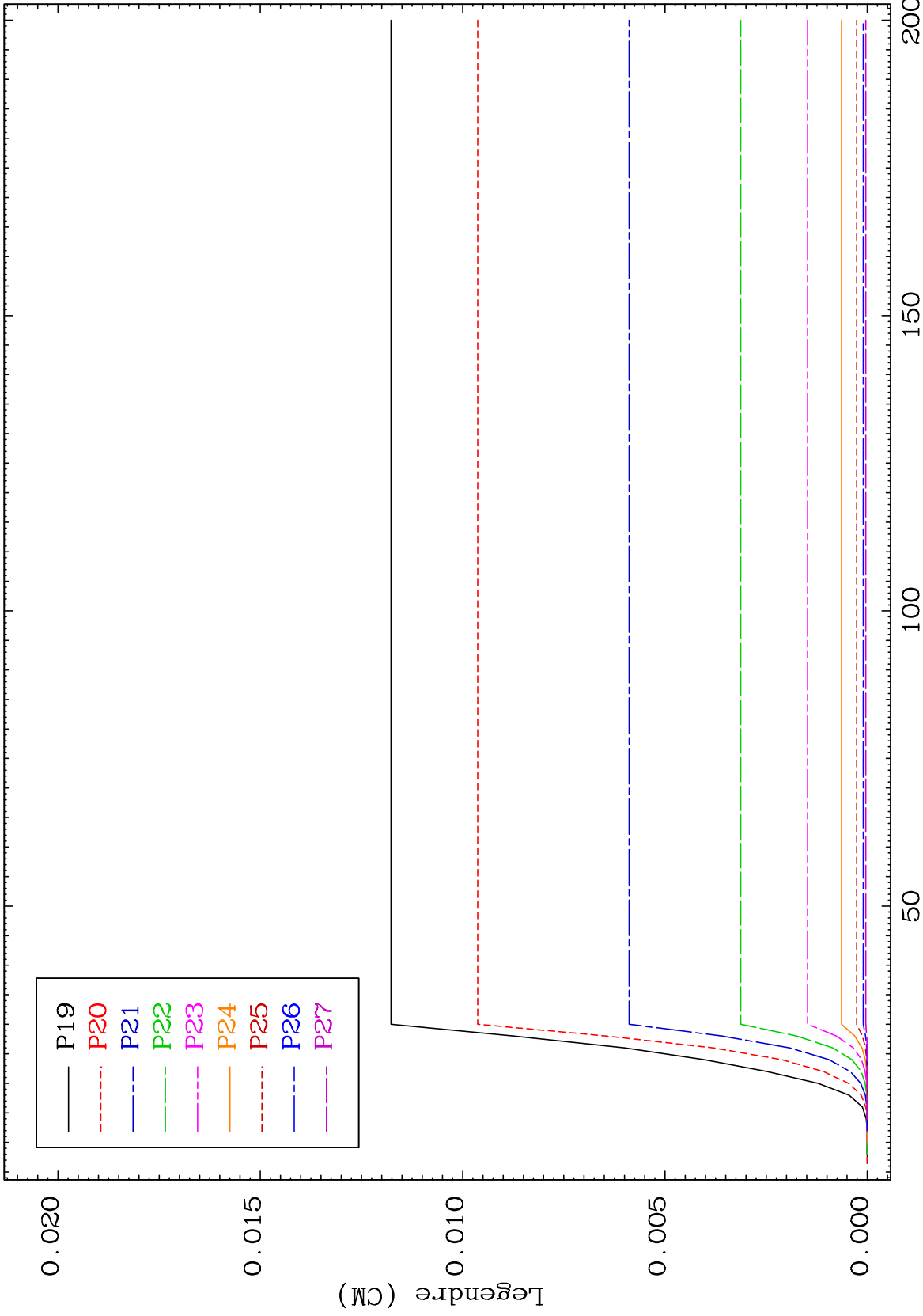
71-Lu-154



88

Incident Energy (MeV)

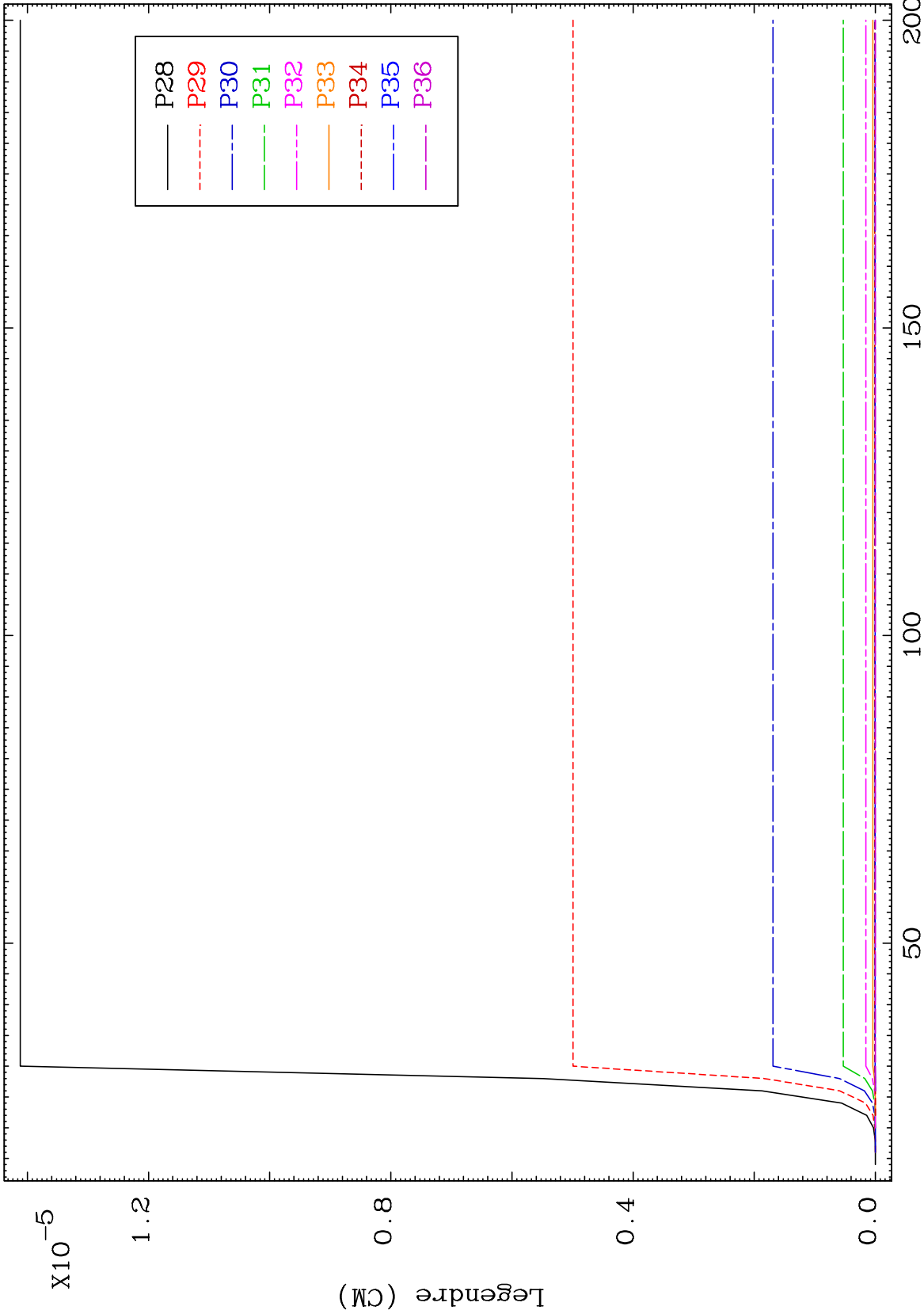
71-Lu-154



MAT 7062

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

71-Lu-154



90

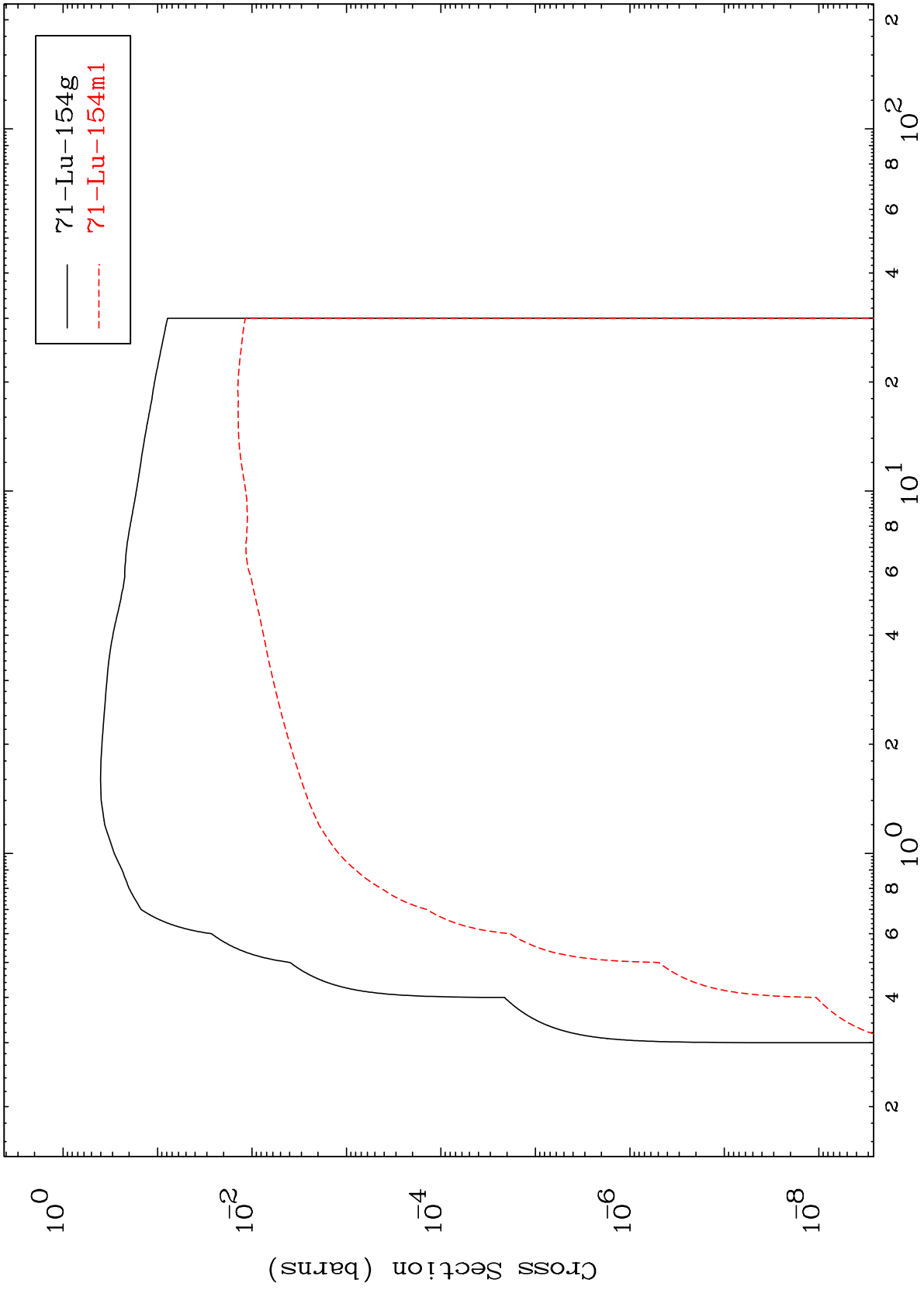
Incident Energy (MeV)

71-Lu-154

MAT 7062

Inelastic Radionuclide Production Cross Section

⁷¹Lu-154



91

Incident Energy (MeV)

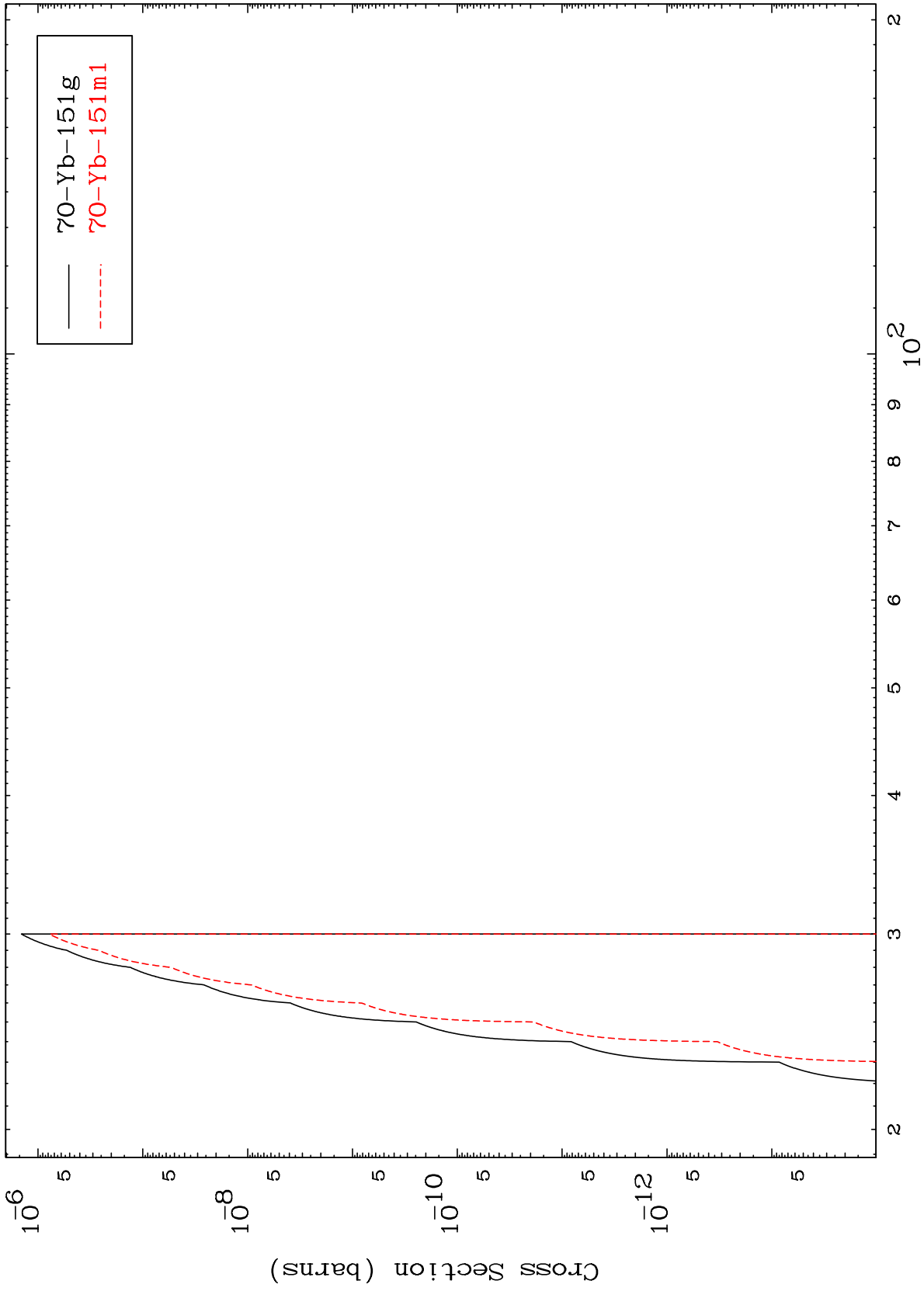
⁷¹Lu-154

MAT 7062

(n,2n) d

⁷¹Lu-154

Radionuclide Production Cross Section



92

Incident Energy (MeV)

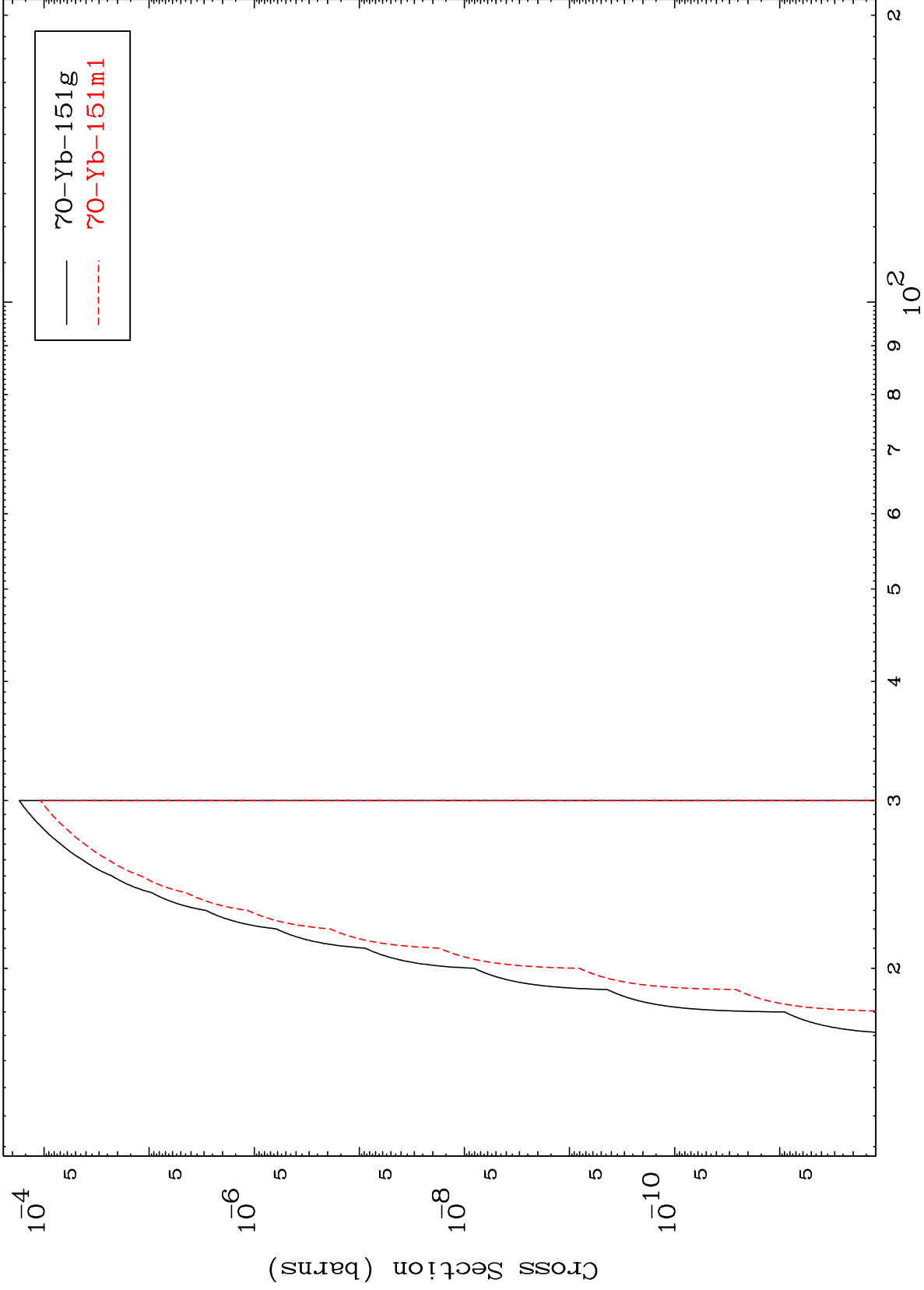
⁷¹Lu-154

MAT 7062

(n,n') t

71-Lu-154

Radionuclide Production Cross Section



93

Incident Energy (MeV)

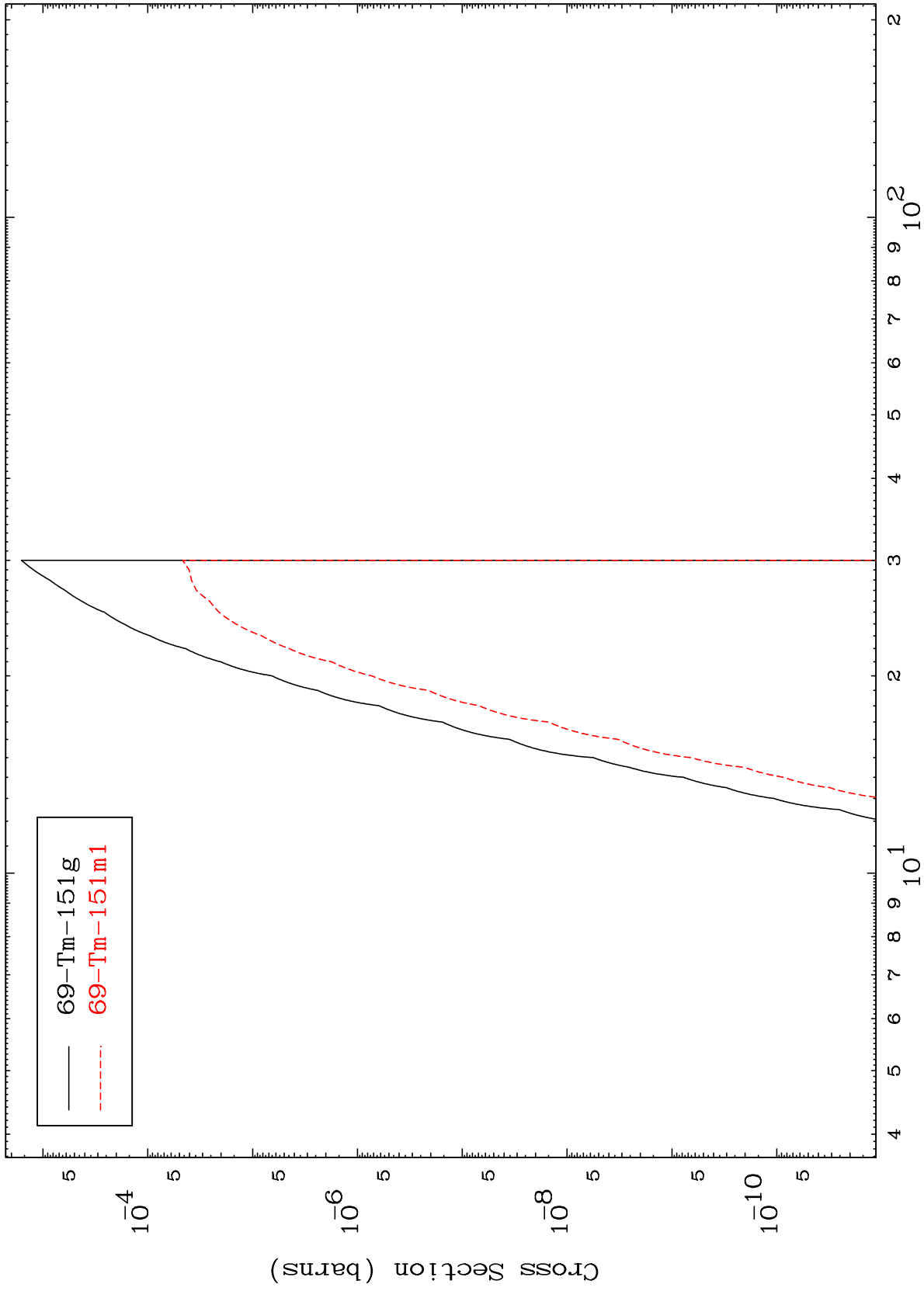
71-Lu-154

MAT 7062

(n, n') He-3

71-Lu-154

Radionuclide Production Cross Section



94

Incident Energy (MeV)

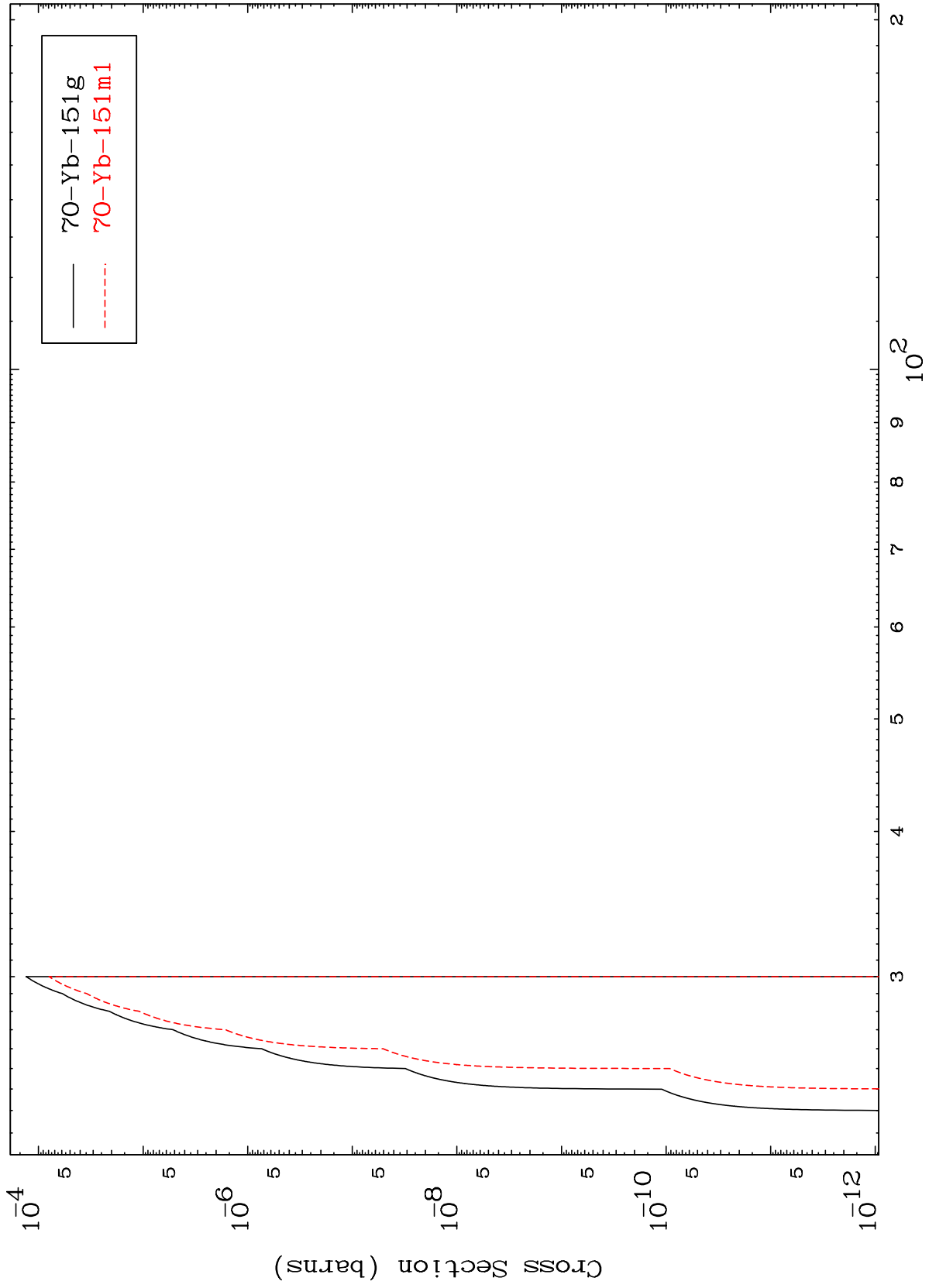
71-Lu-154

MAT 7062

(n,3n) p

⁷¹Lu-154

Radionuclide Production Cross Section



95

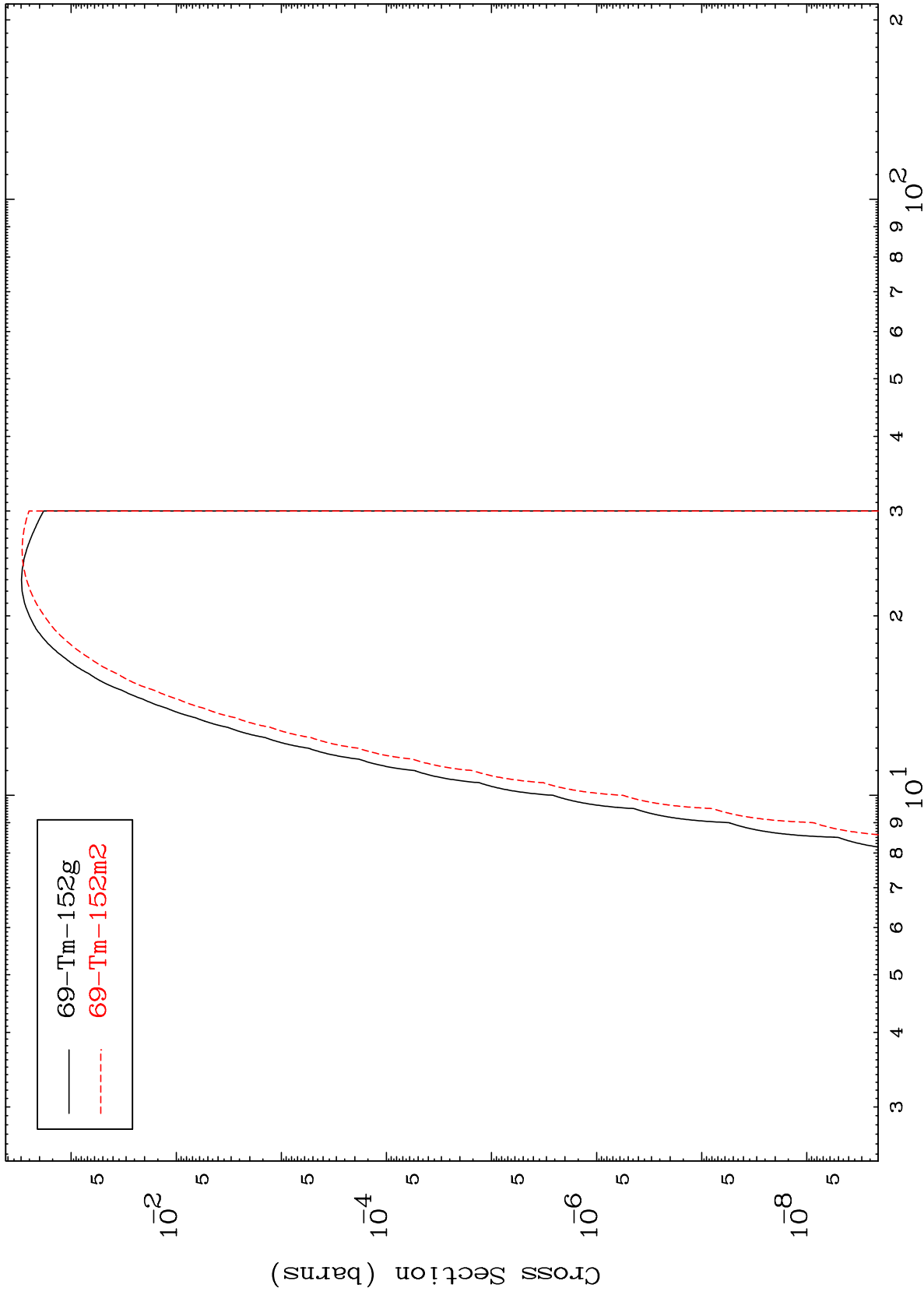
Incident Energy (MeV)

⁷¹Lu-154

MAT 7062

71-Lu-154

(n,2n) p
Radionuclide Production Cross Section



96

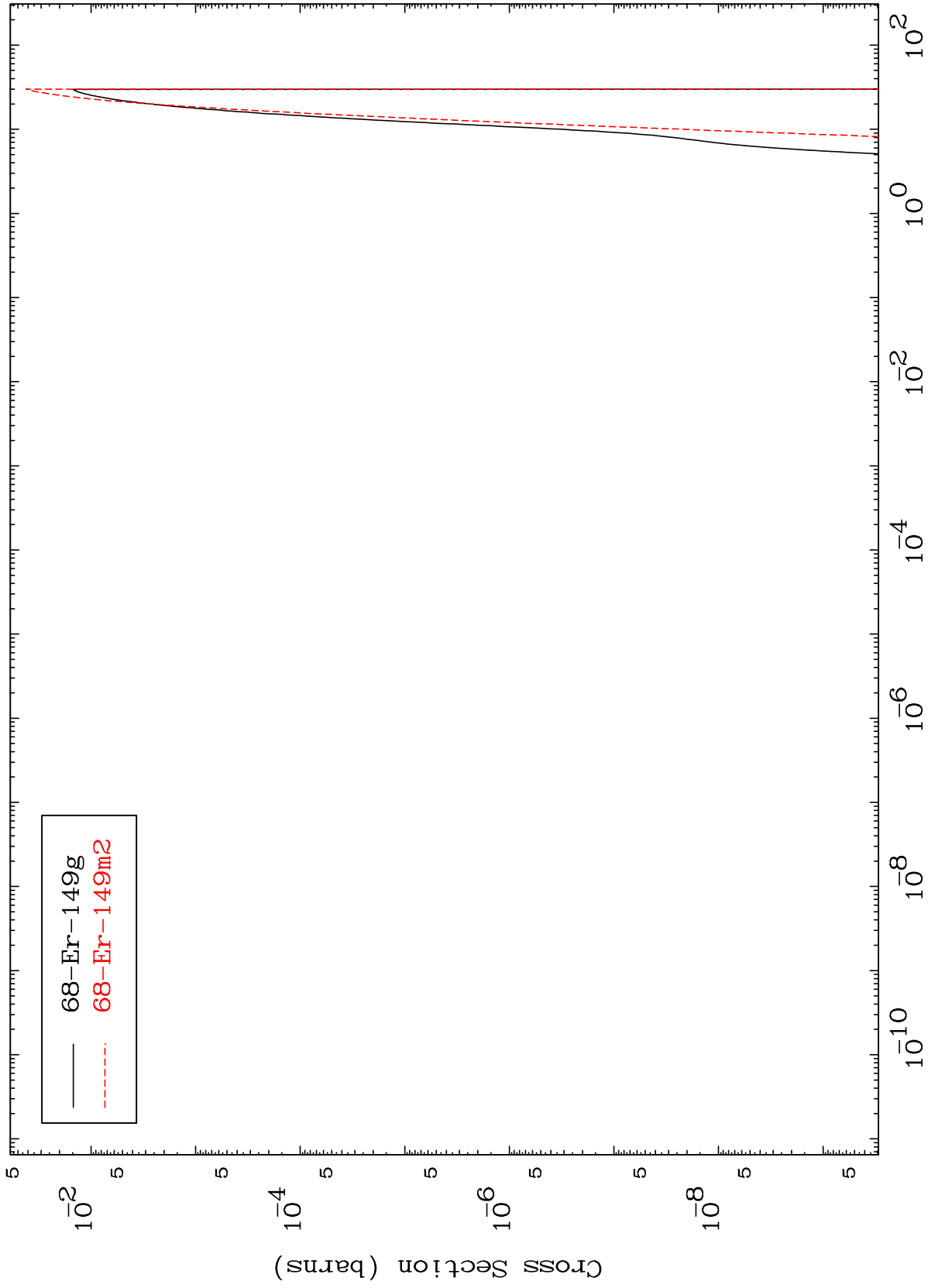
71-Lu-154

MAT 7062

(n,n') p α

71-Lu-154

Radionuclide Production Cross Section



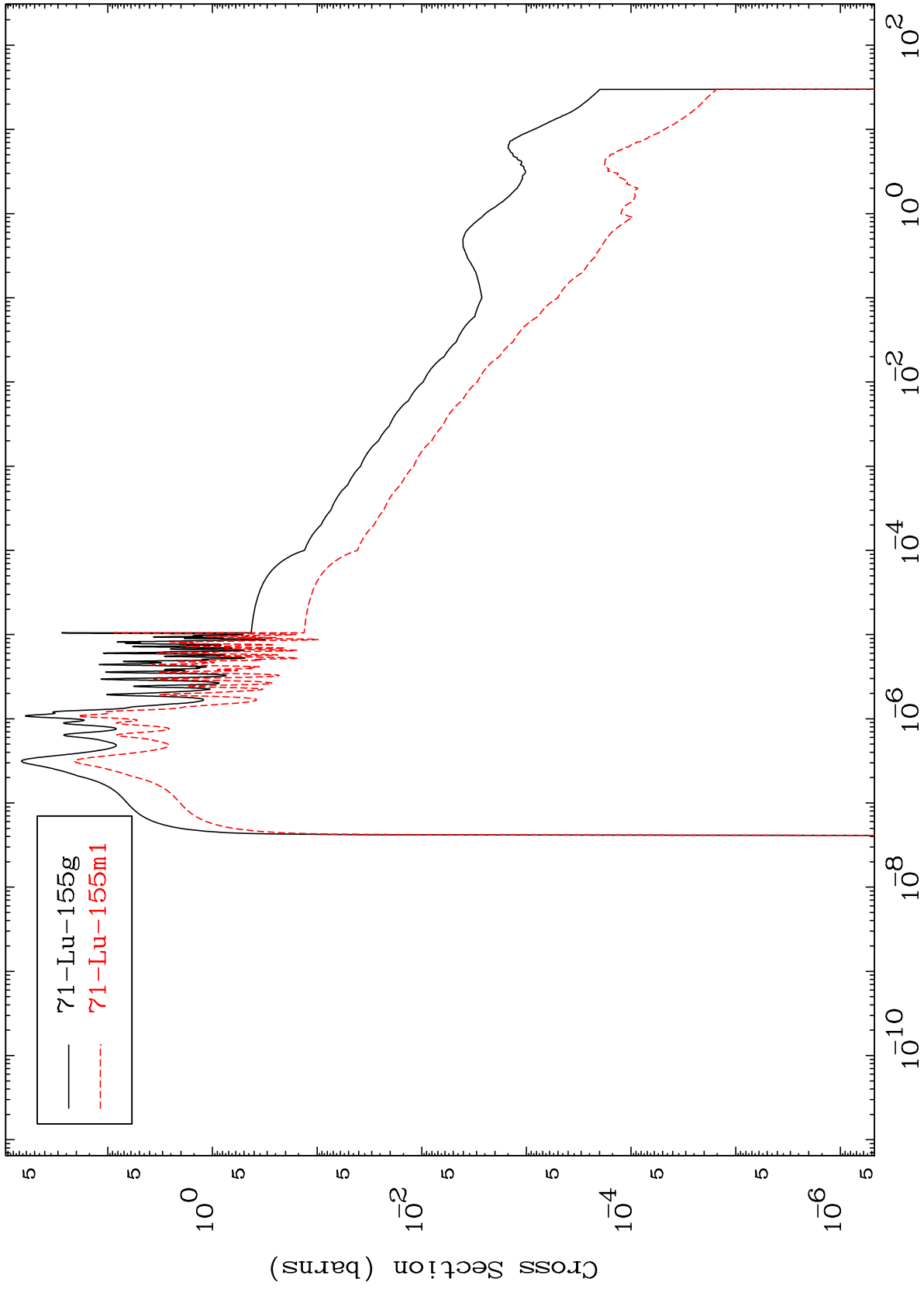
97

71-Lu-154

MAT 7062

71-Lu-154

Radionuclide Production Cross Section (n,γ)



98

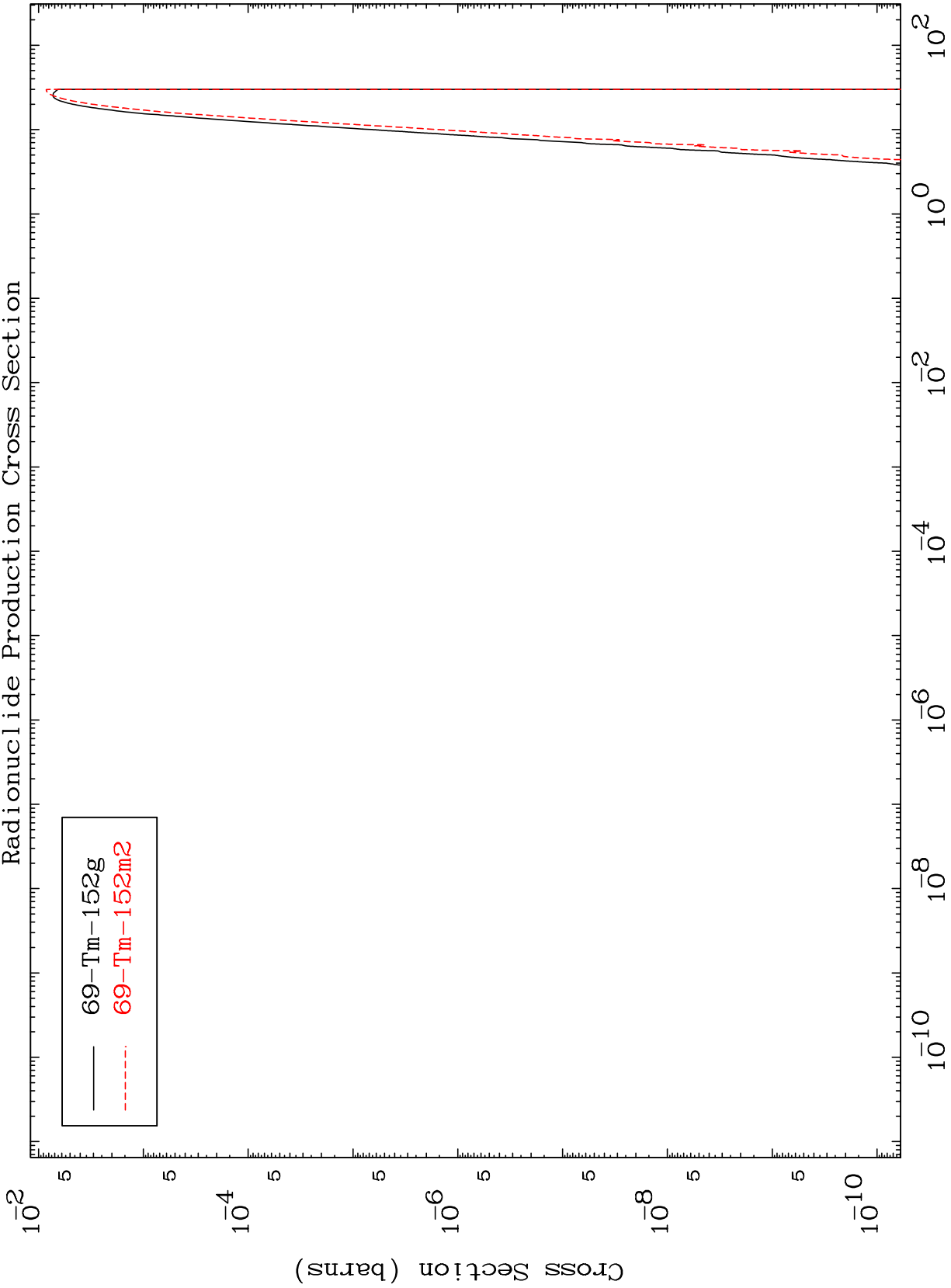
71-Lu-154

MAT 7062

(n, He-3)

71-Lu-154

Radionuclide Production Cross Section



69-Tm-152g
69-Tm-152m2

99

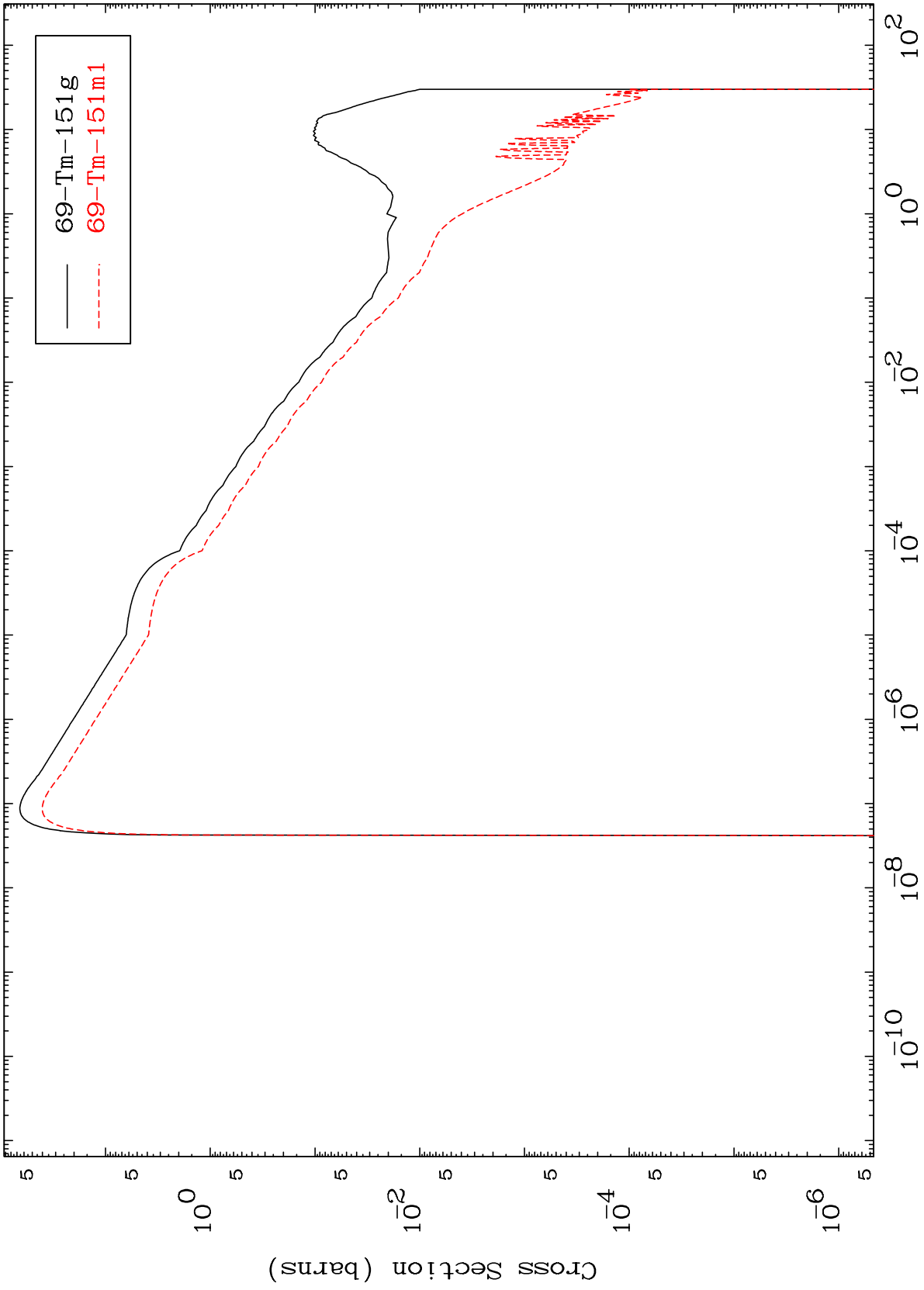
Incident Energy (MeV)

71-Lu-154

MAT 7062

71-Lu-154

(n, α)
Radionuclide Production Cross Section



100

Incident Energy (MeV)

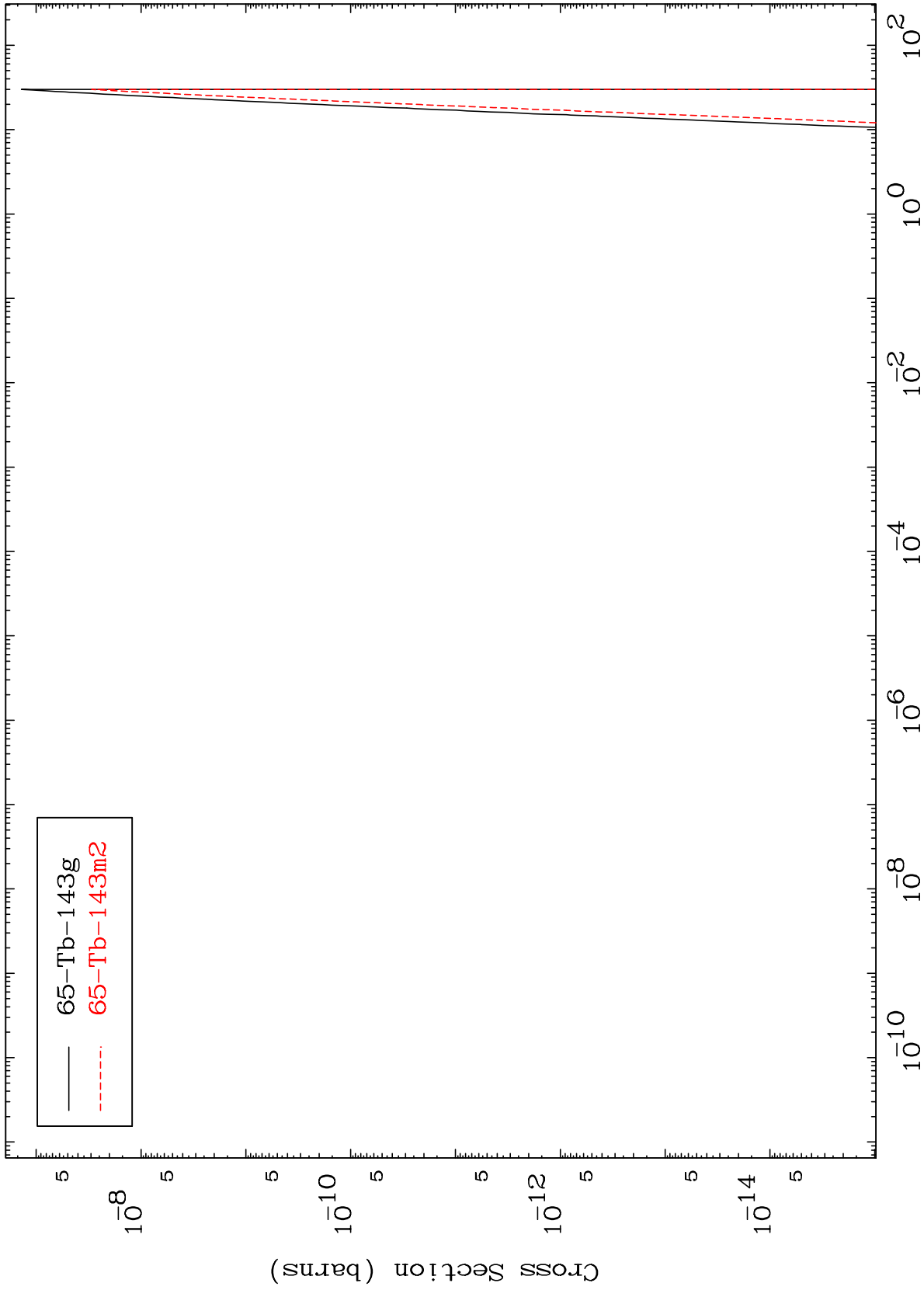
71-Lu-154

MAT 7062

(n, 3α)

⁷¹Lu-154

Radionuclide Production Cross Section



101

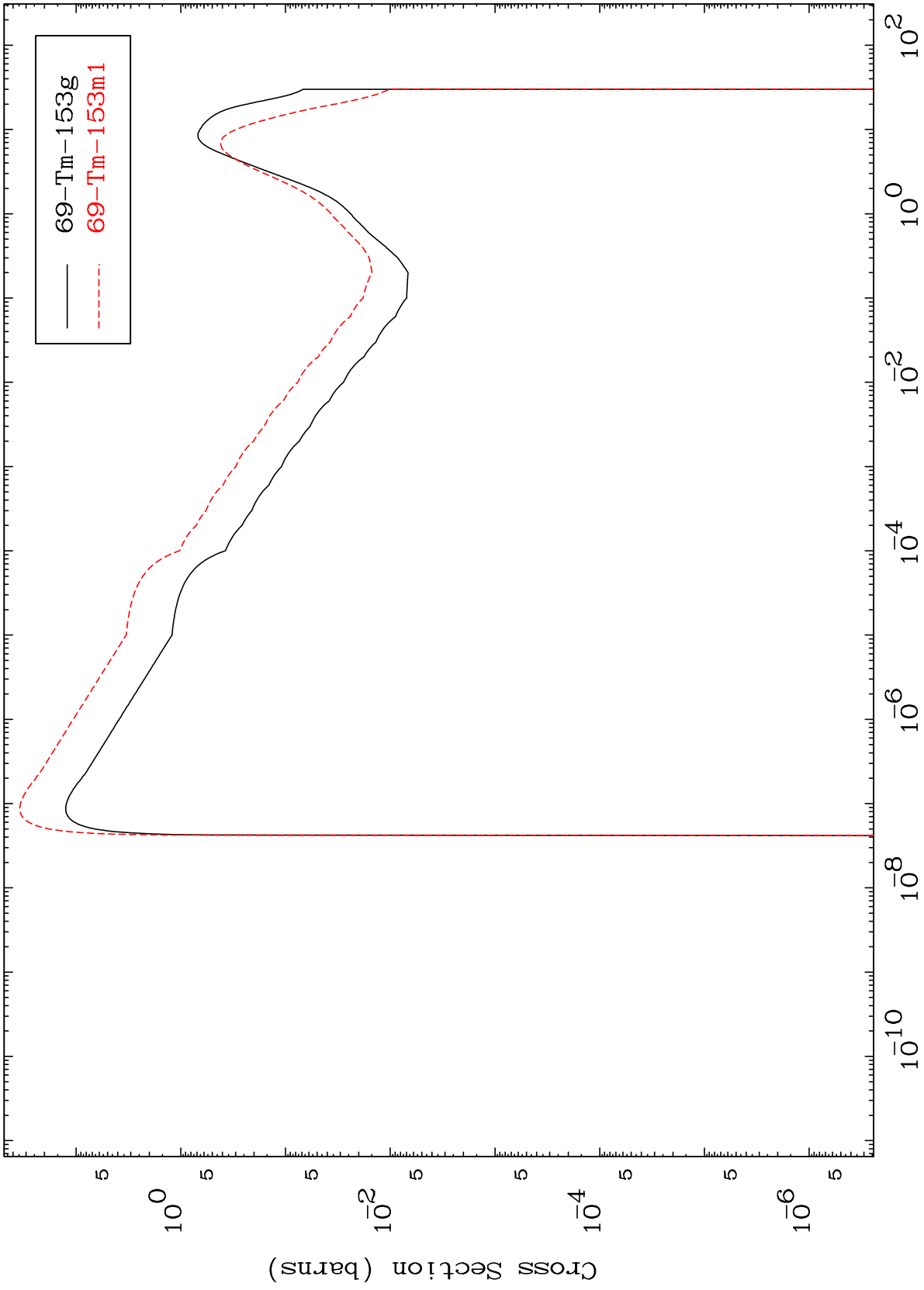
Incident Energy (MeV)

⁷¹Lu-154

MAT 7062

71-Lu-154

(n,2p)
Radionuclide Production Cross Section



102

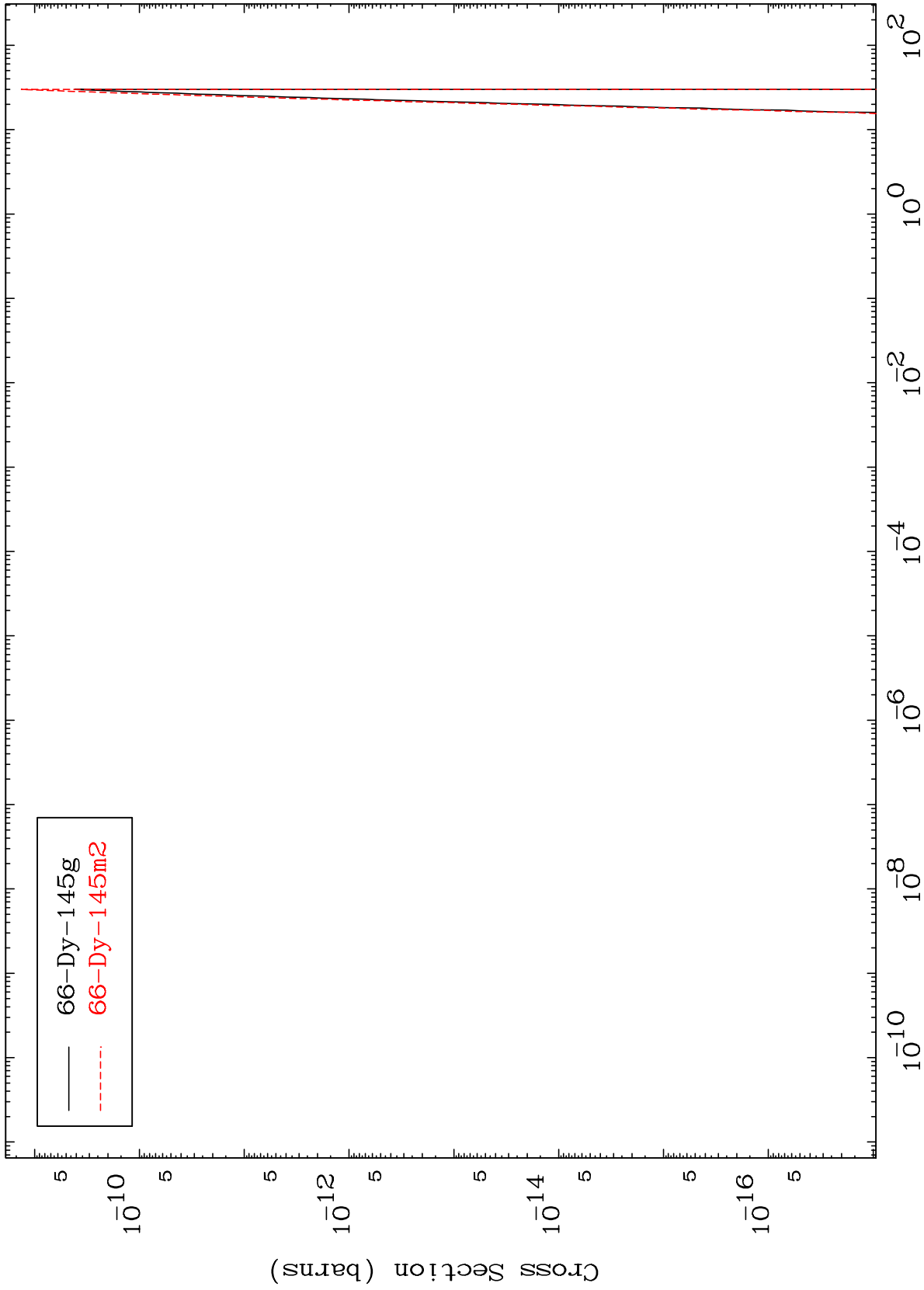
71-Lu-154

MAT 7062

(n,d) 2α

$^{71}\text{Lu-154}$

Radionuclide Production Cross Section



103

Incident Energy (MeV)

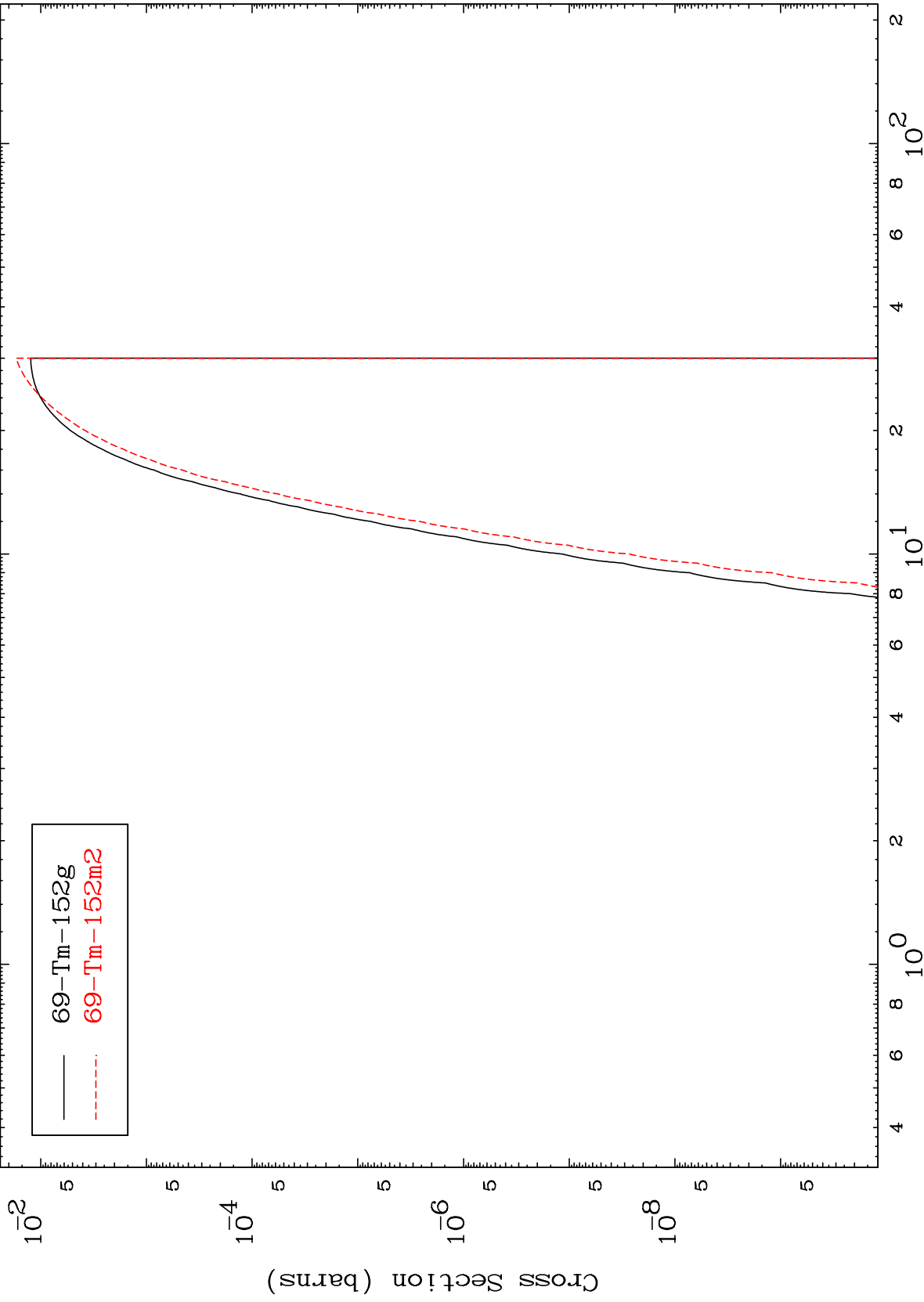
$^{71}\text{Lu-154}$

MAT 7062

(n,p) d

⁷¹Lu-154

Radionuclide Production Cross Section



104

Incident Energy (MeV)

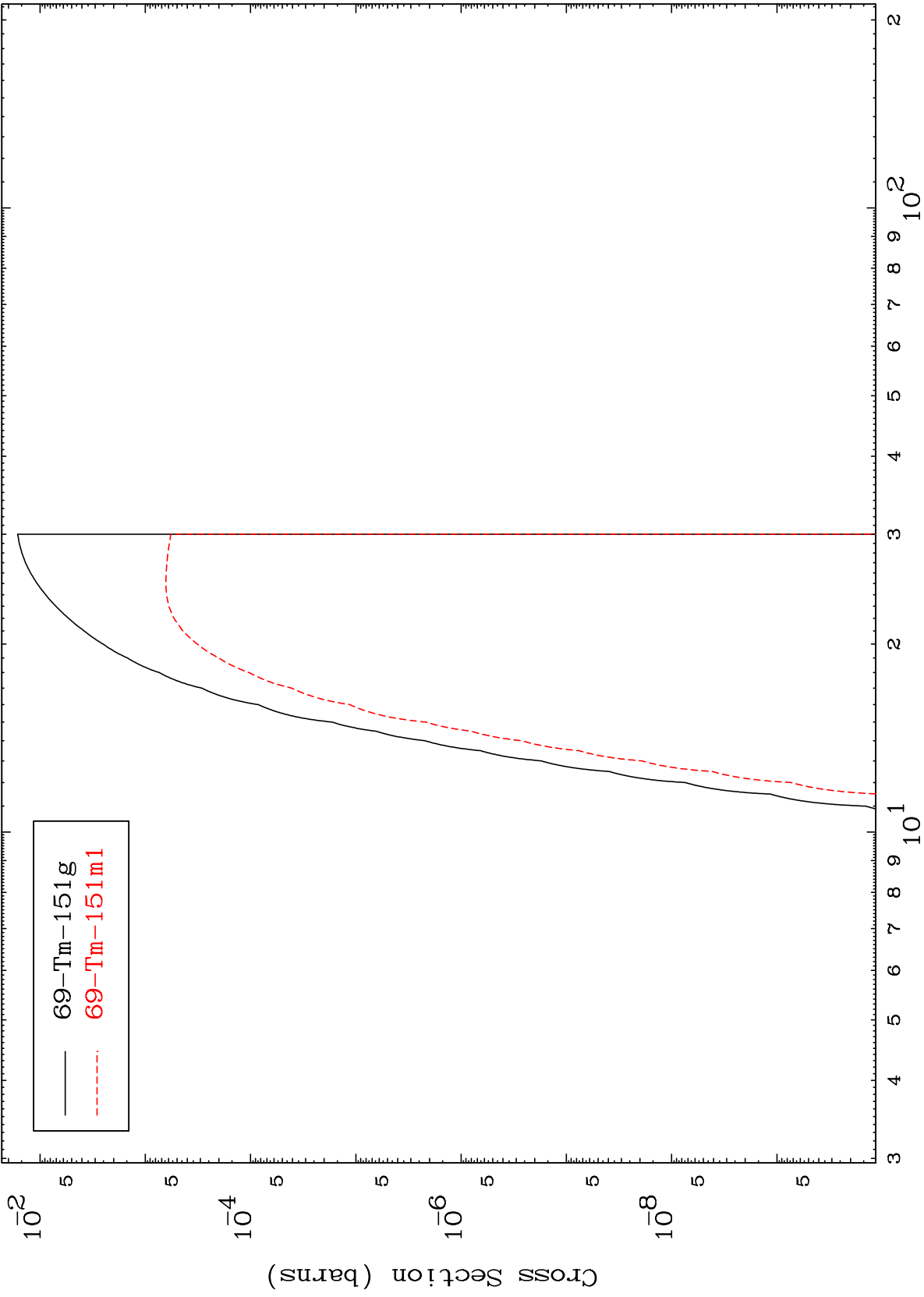
⁷¹Lu-154

MAT 7062

(n,p) t

71-Lu-154

Radionuclide Production Cross Section



105

Incident Energy (MeV)

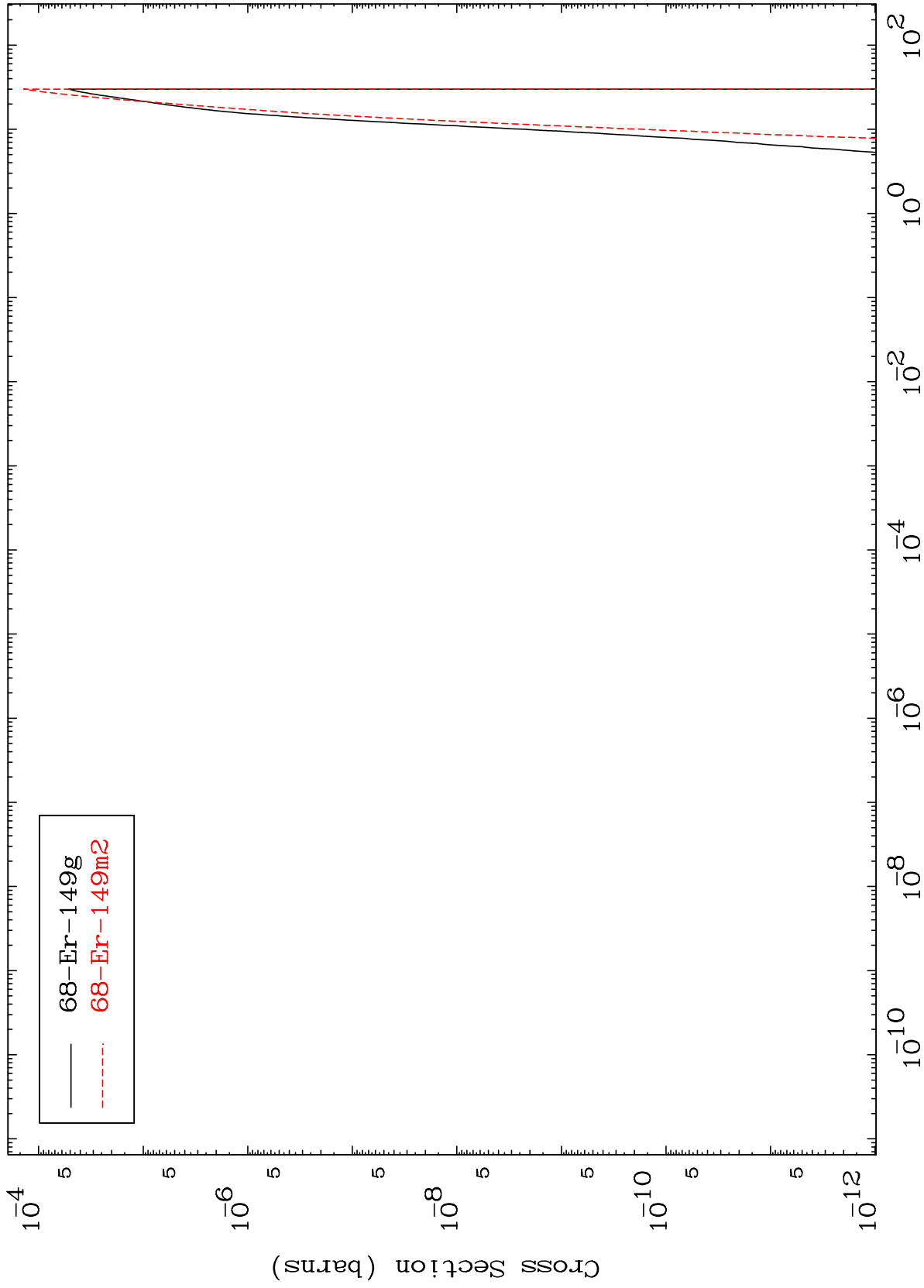
71-Lu-154

MAT 7062

(n,d) α

⁷¹Lu-154

Radionuclide Production Cross Section



106

Incident Energy (MeV)

⁷¹Lu-154