

Program EVALPLOT
(Version 2021-1)

by

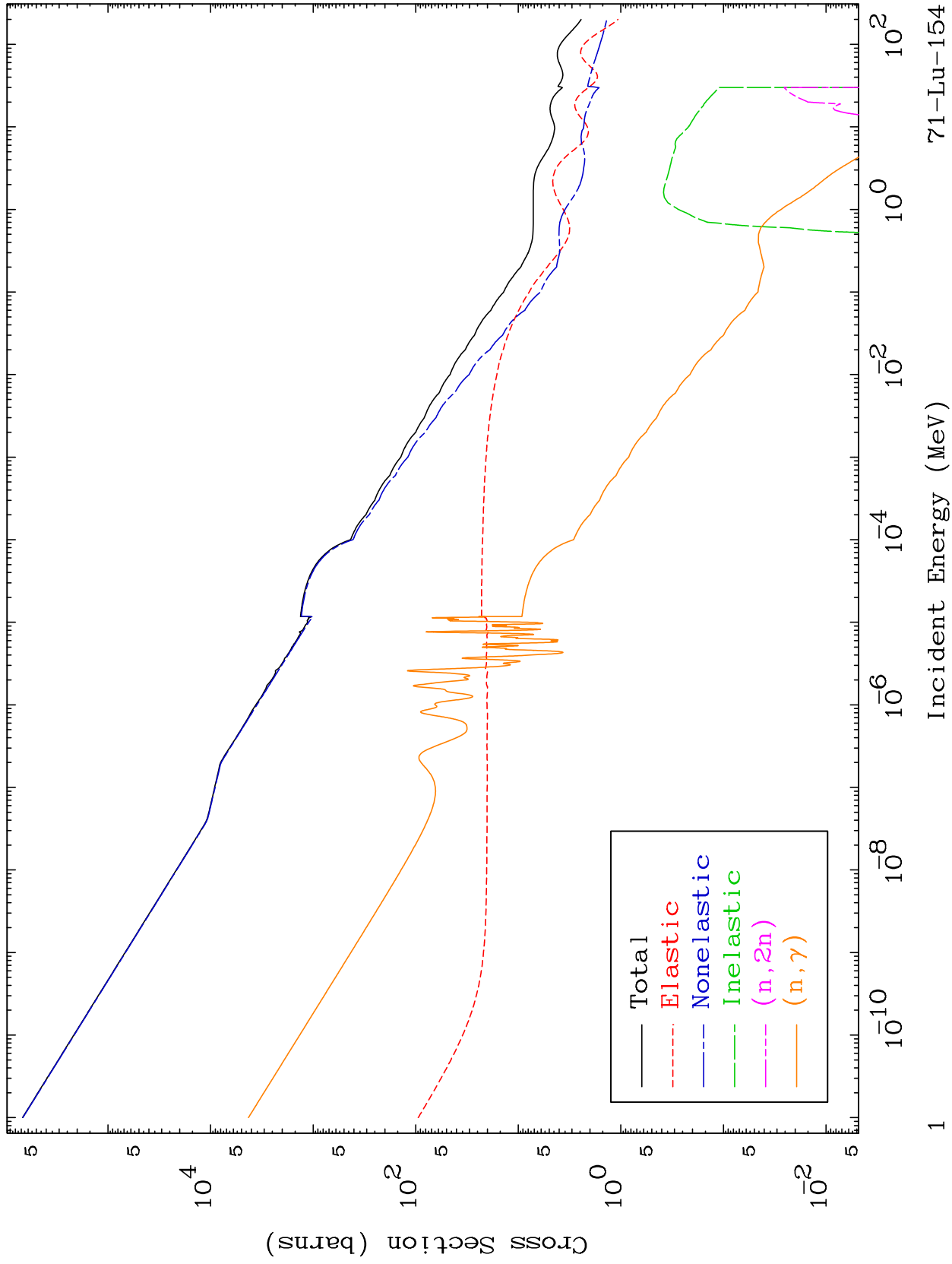
Dermott E. Cullen
(Present Contact Information)

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Livermore, CA 94550
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E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

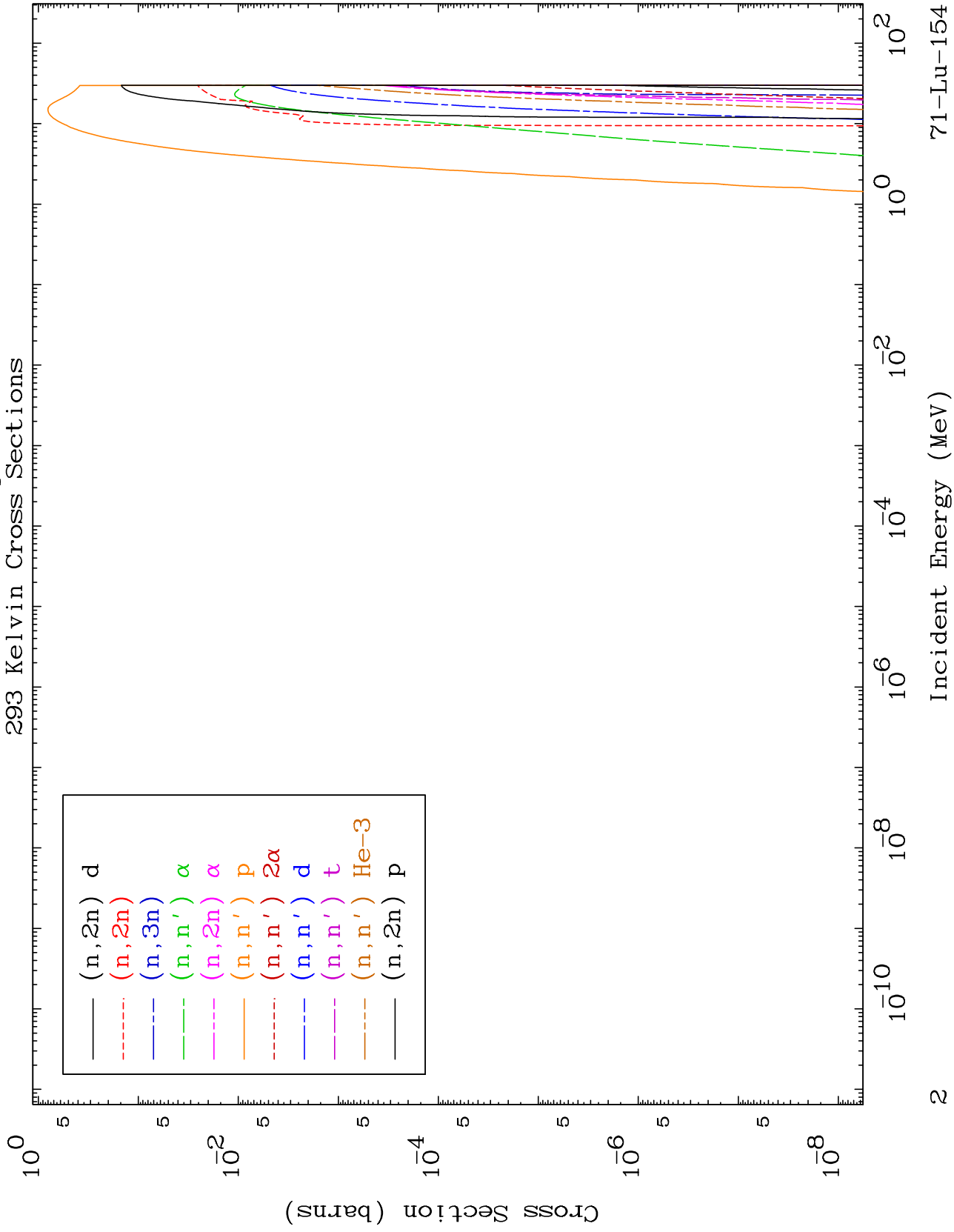
Press Mouse Button to Start



MAT 7062

Neutron Absorption
293 Kelvin Cross Sections

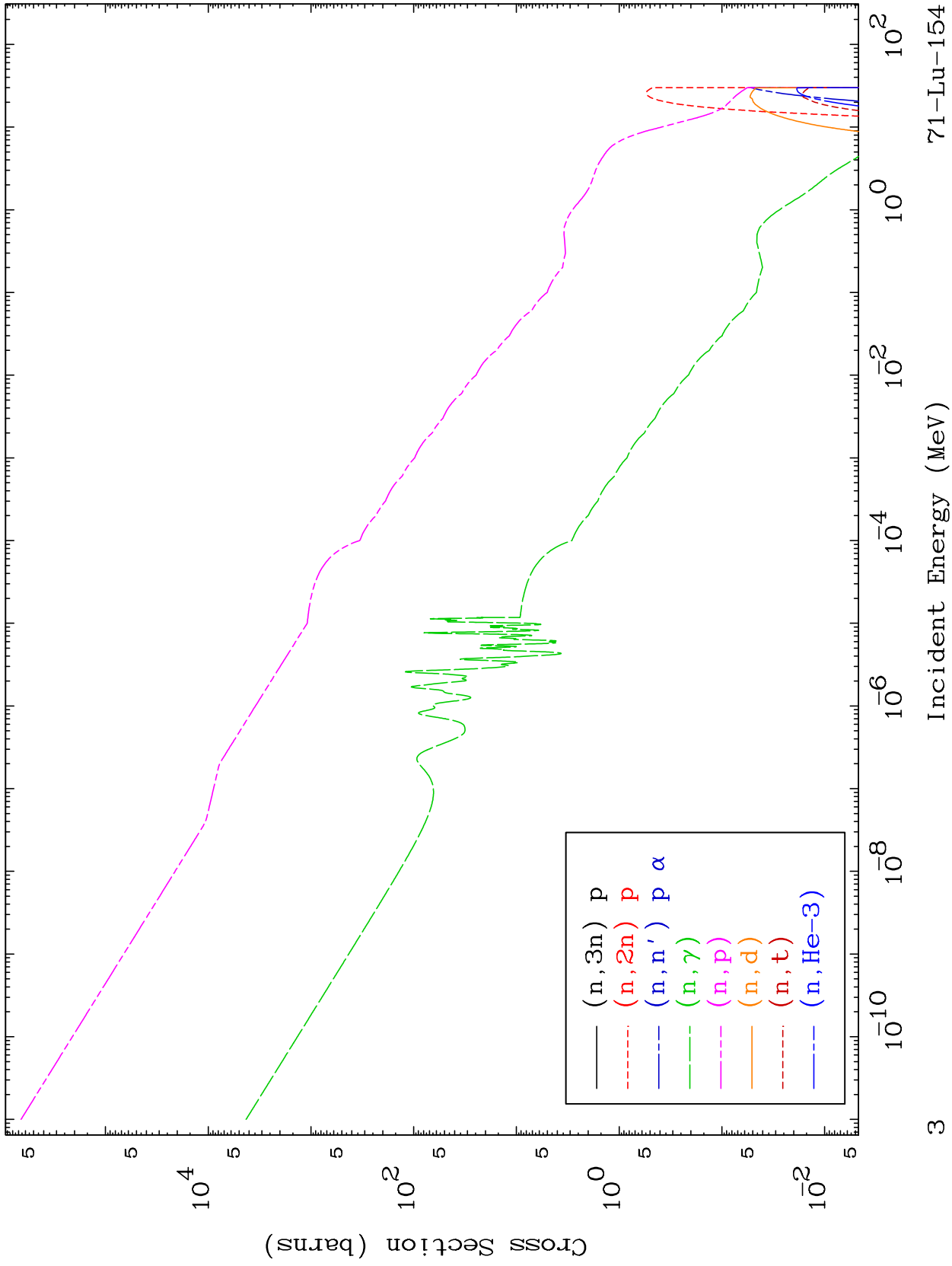
71-Lu-154

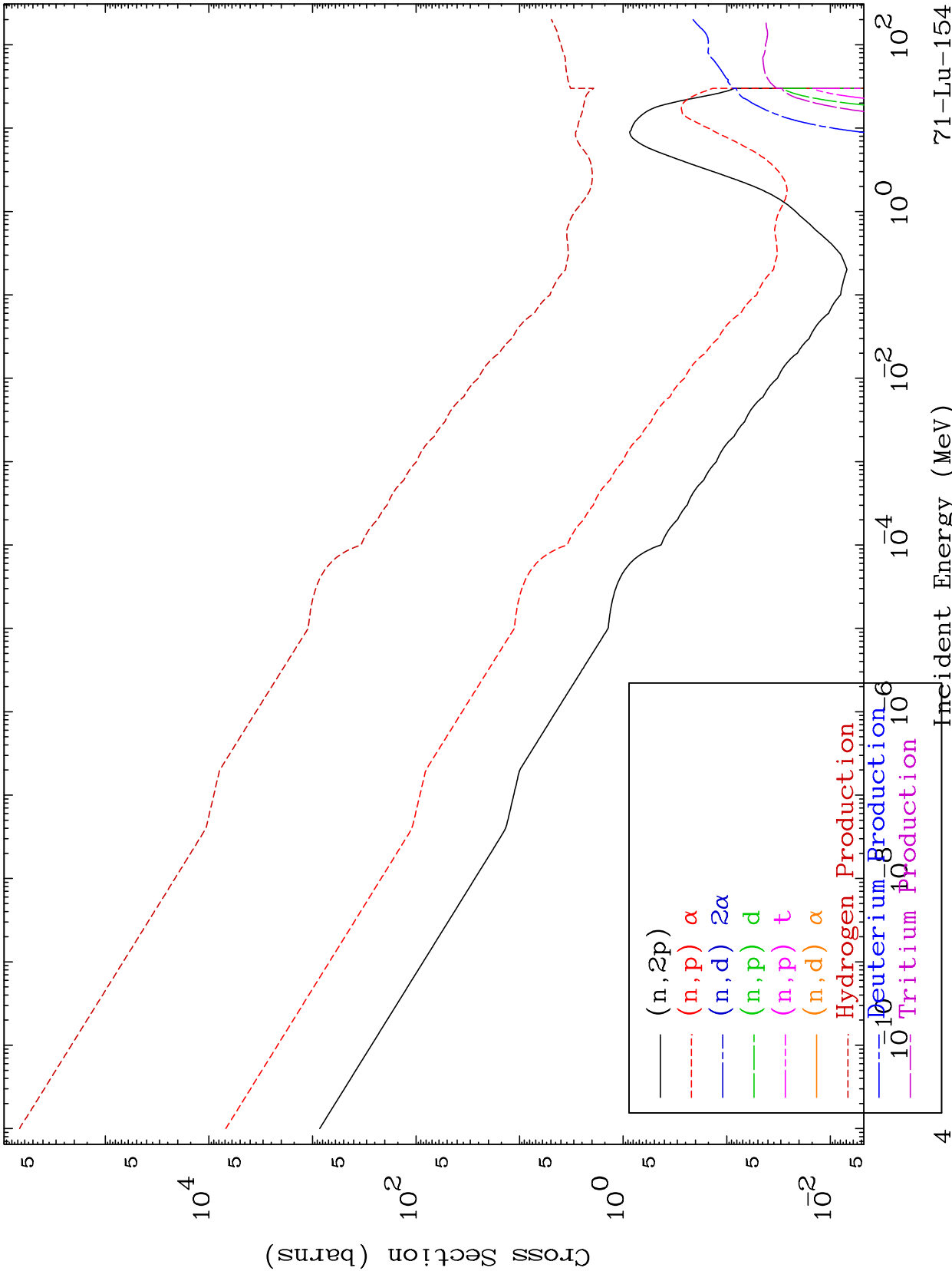


MAT 7062

Neutron Absorption
293 Kelvin Cross Sections

71-Lu-154

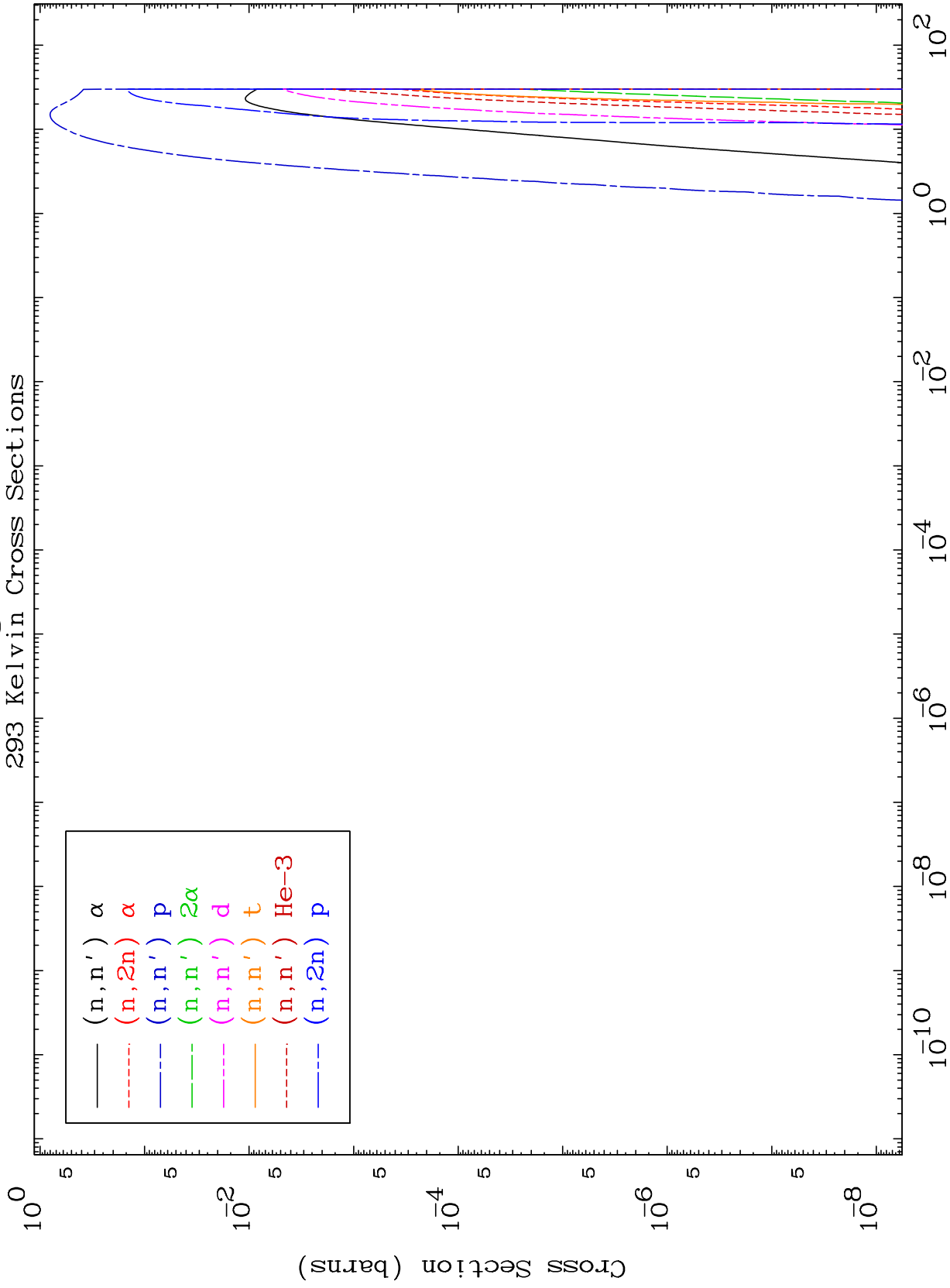




MAT 7062

293 Kelvin Cross Sections

71-Lu-154



5

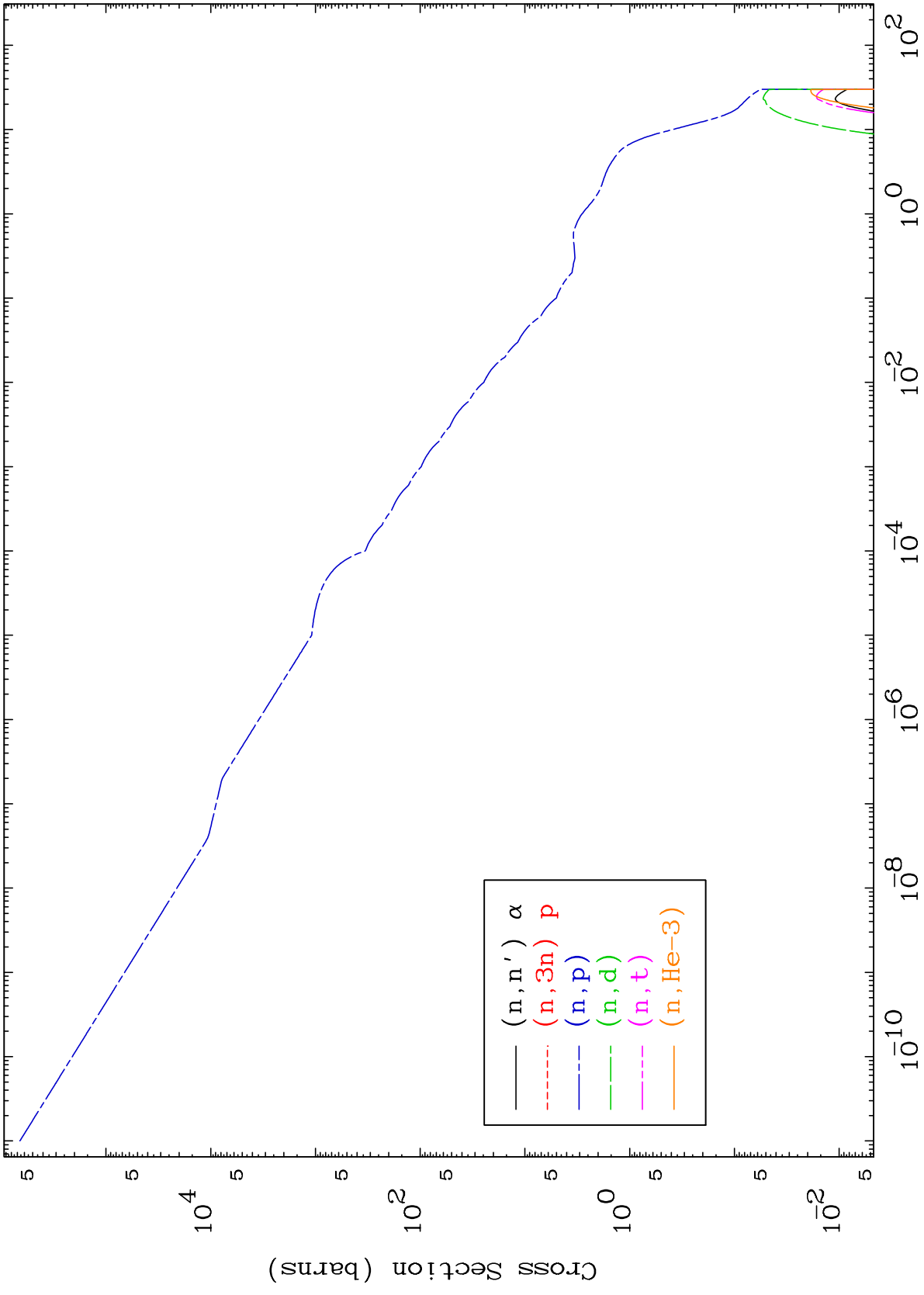
Incident Energy (MeV)

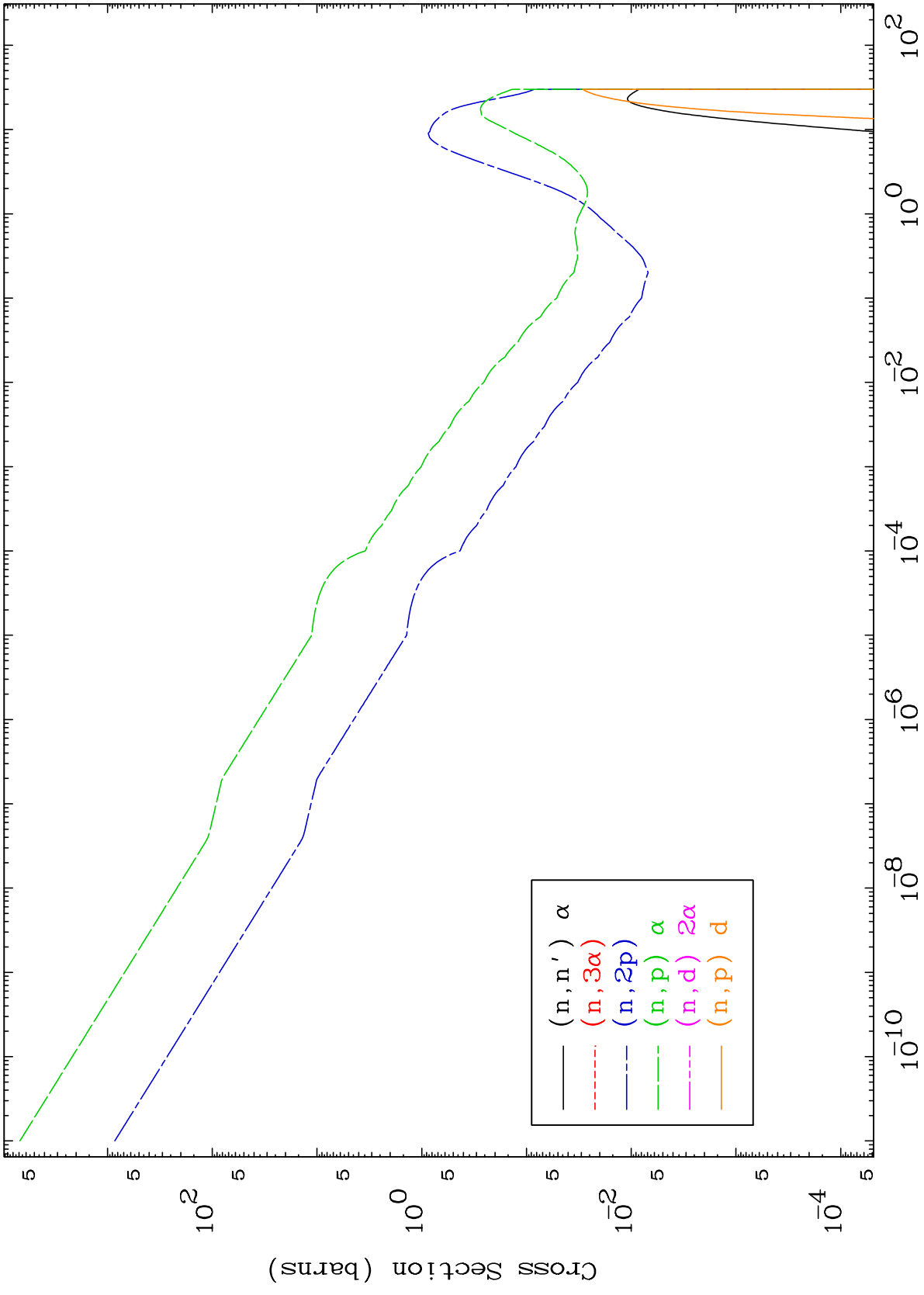
71-Lu-154

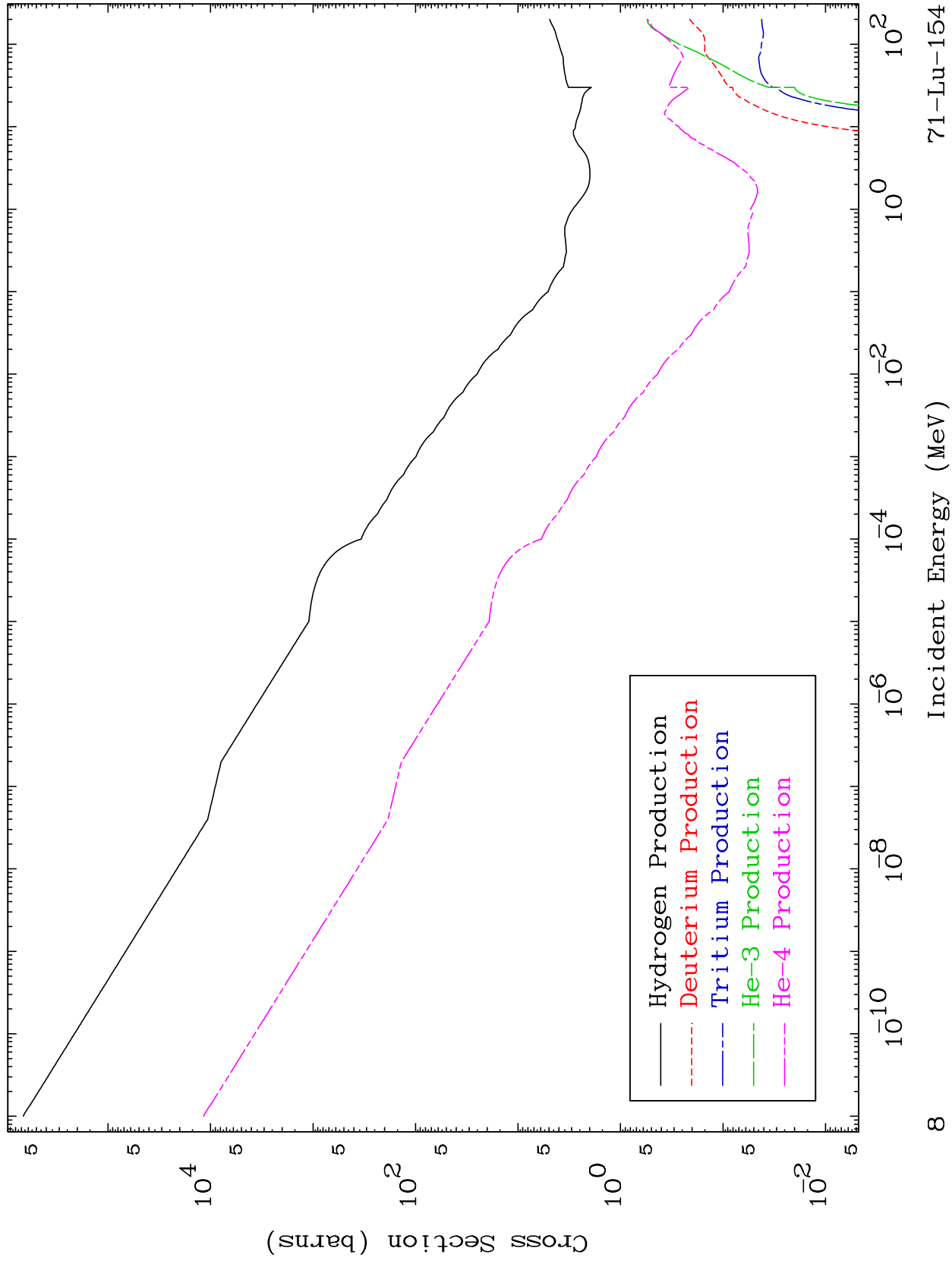
MAT 7062

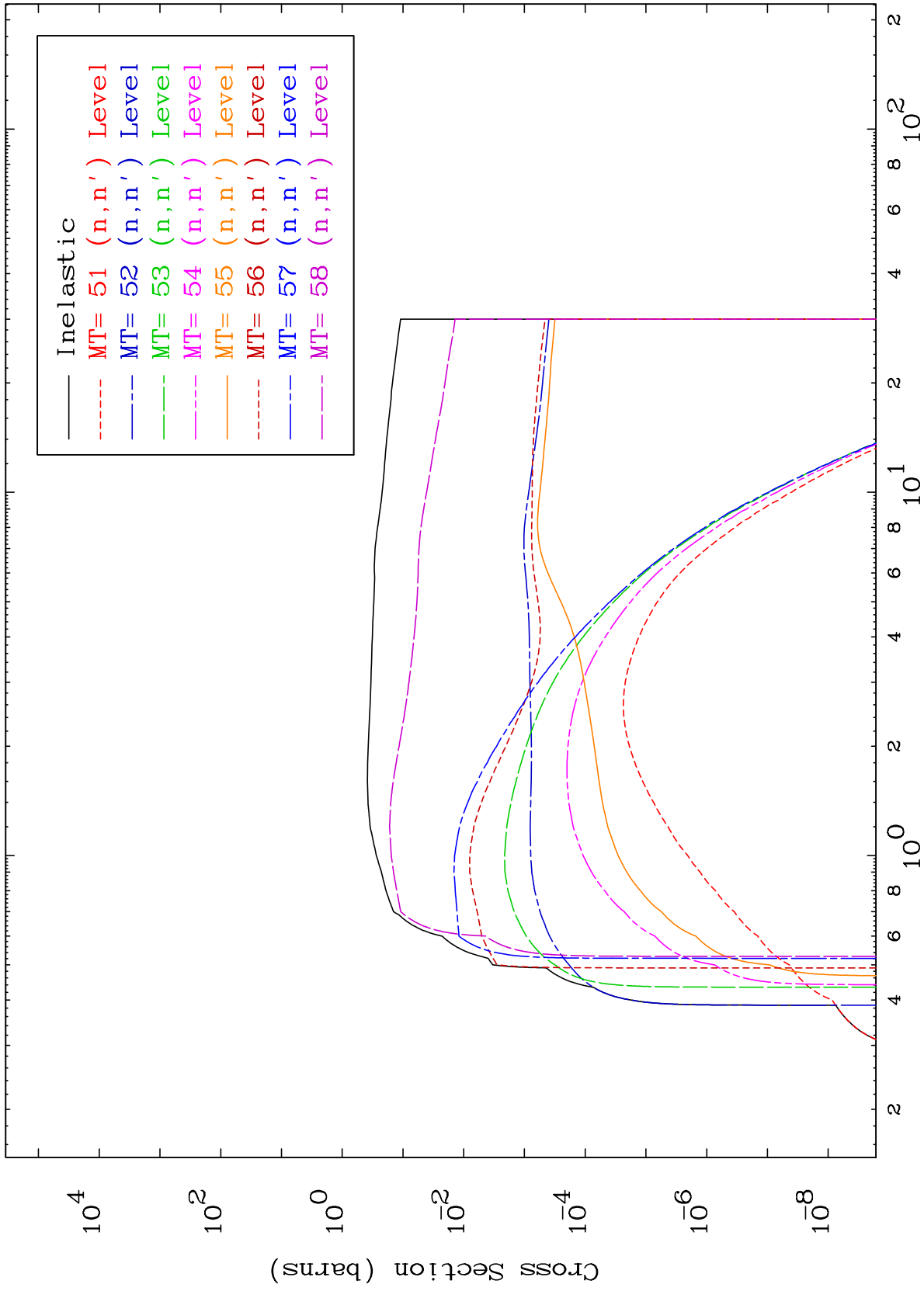
293 Kelvin Cross Sections

71-Lu-154





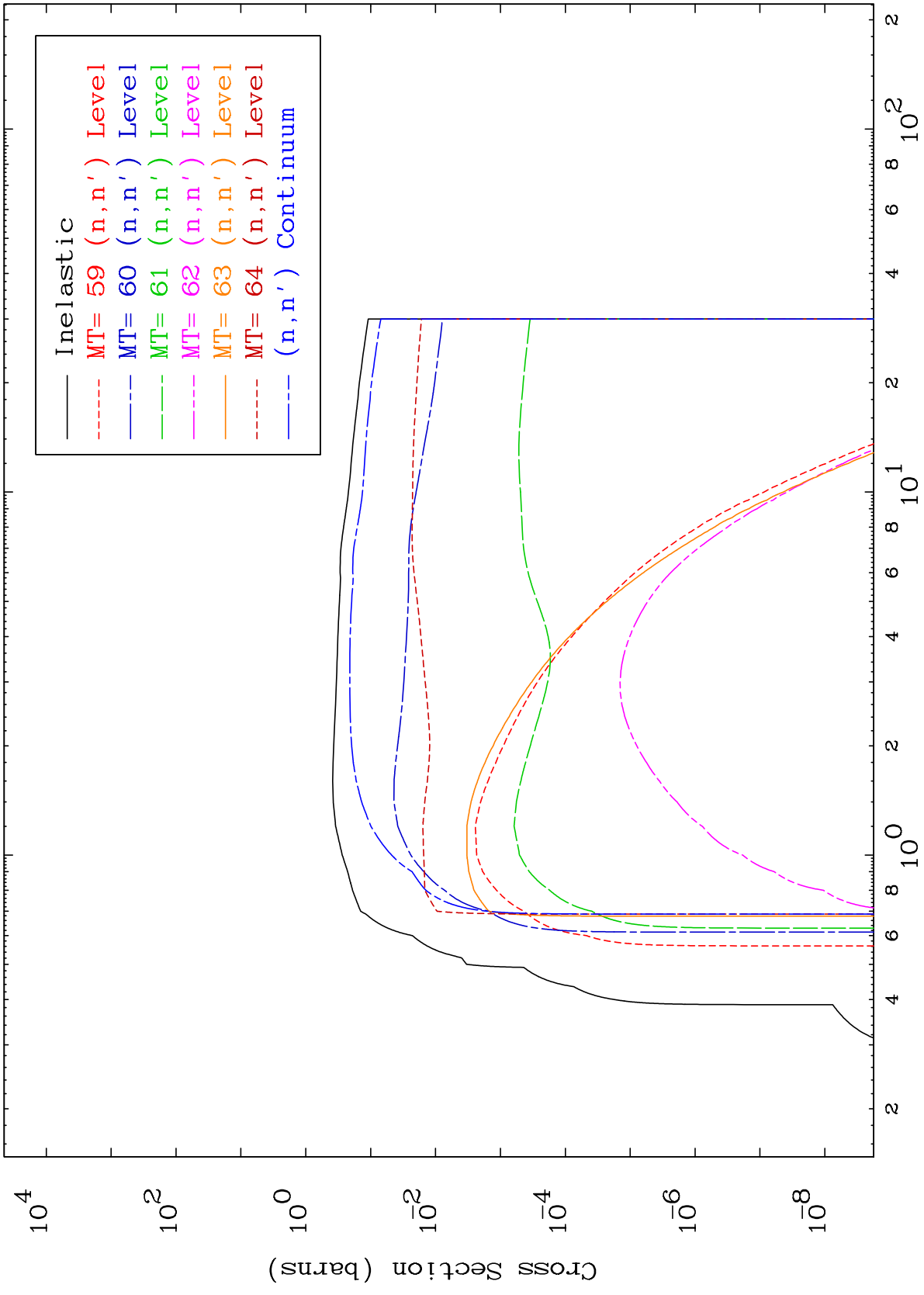




MAT 7062

(n,n') Levels
293 Kelvin Cross Sections

71-Lu-154



10

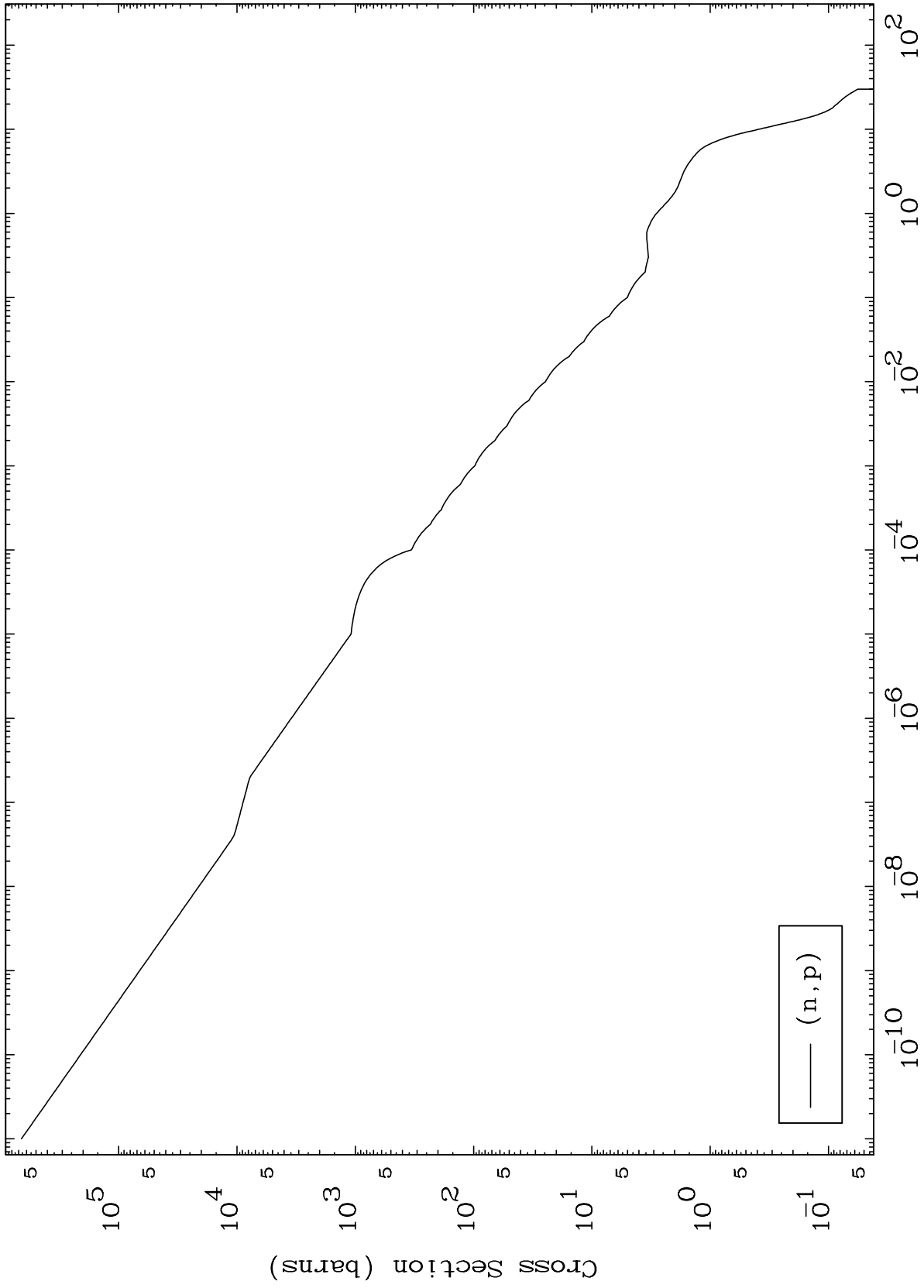
Incident Energy (MeV)

71-Lu-154

MAT 7062

(n,p) Levels
293 Kelvin Cross Sections

71-Lu-154



11

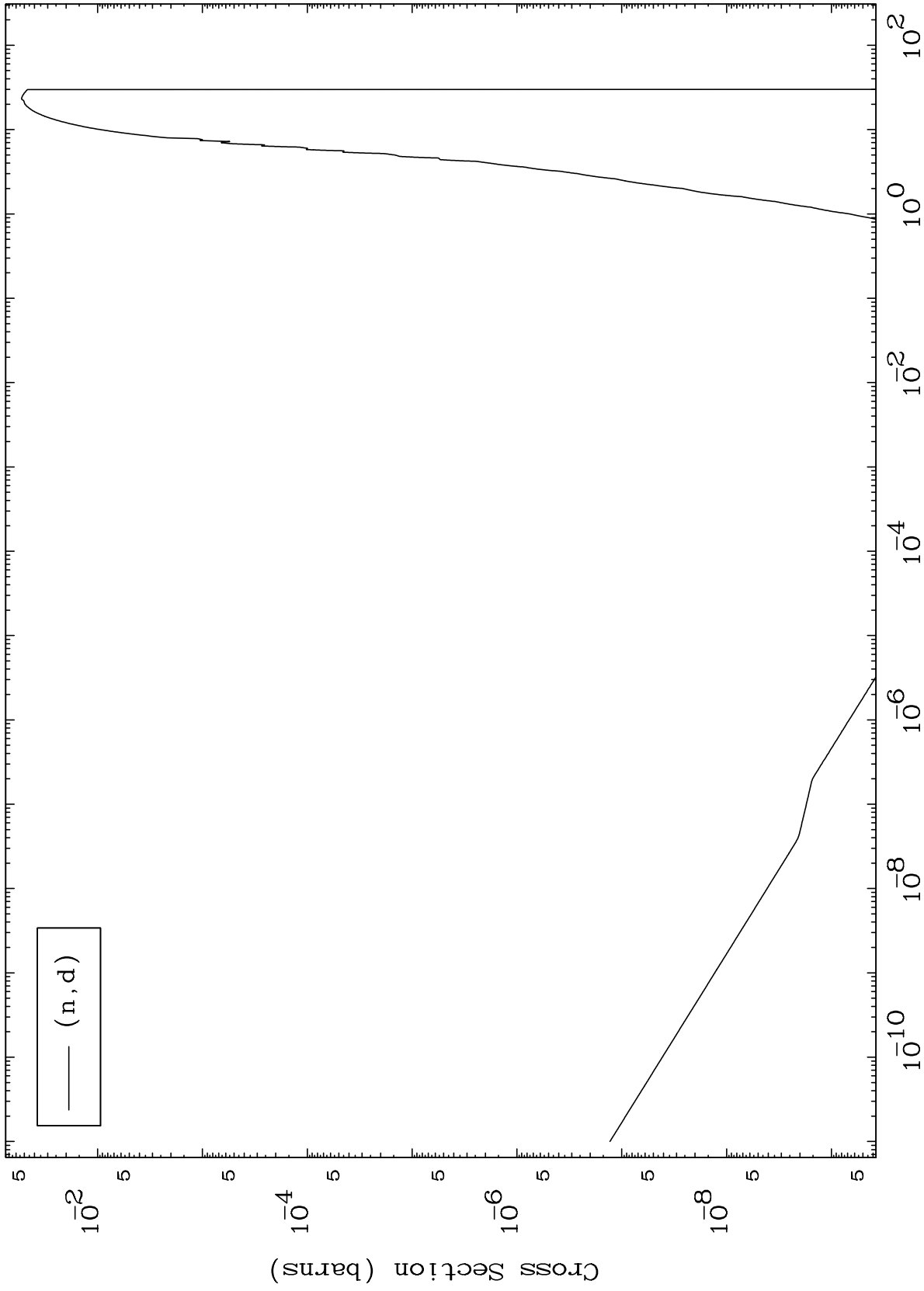
Incident Energy (MeV)

71-Lu-154

MAT 7062

(n,d) Levels
293 Kelvin Cross Sections

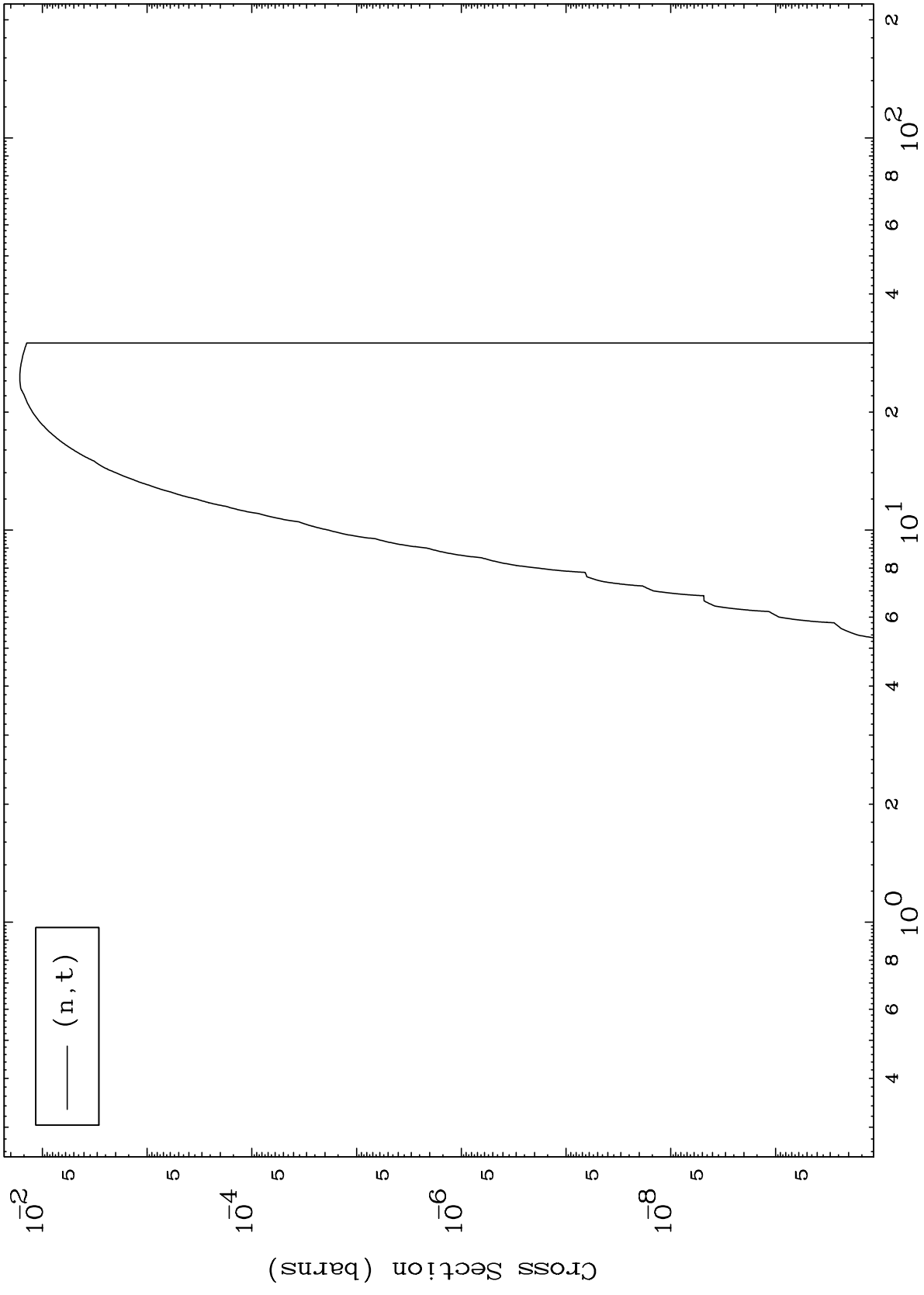
71-Lu-154



MAT 7062

(n,t) Levels
293 Kelvin Cross Sections

71-Lu-154



13

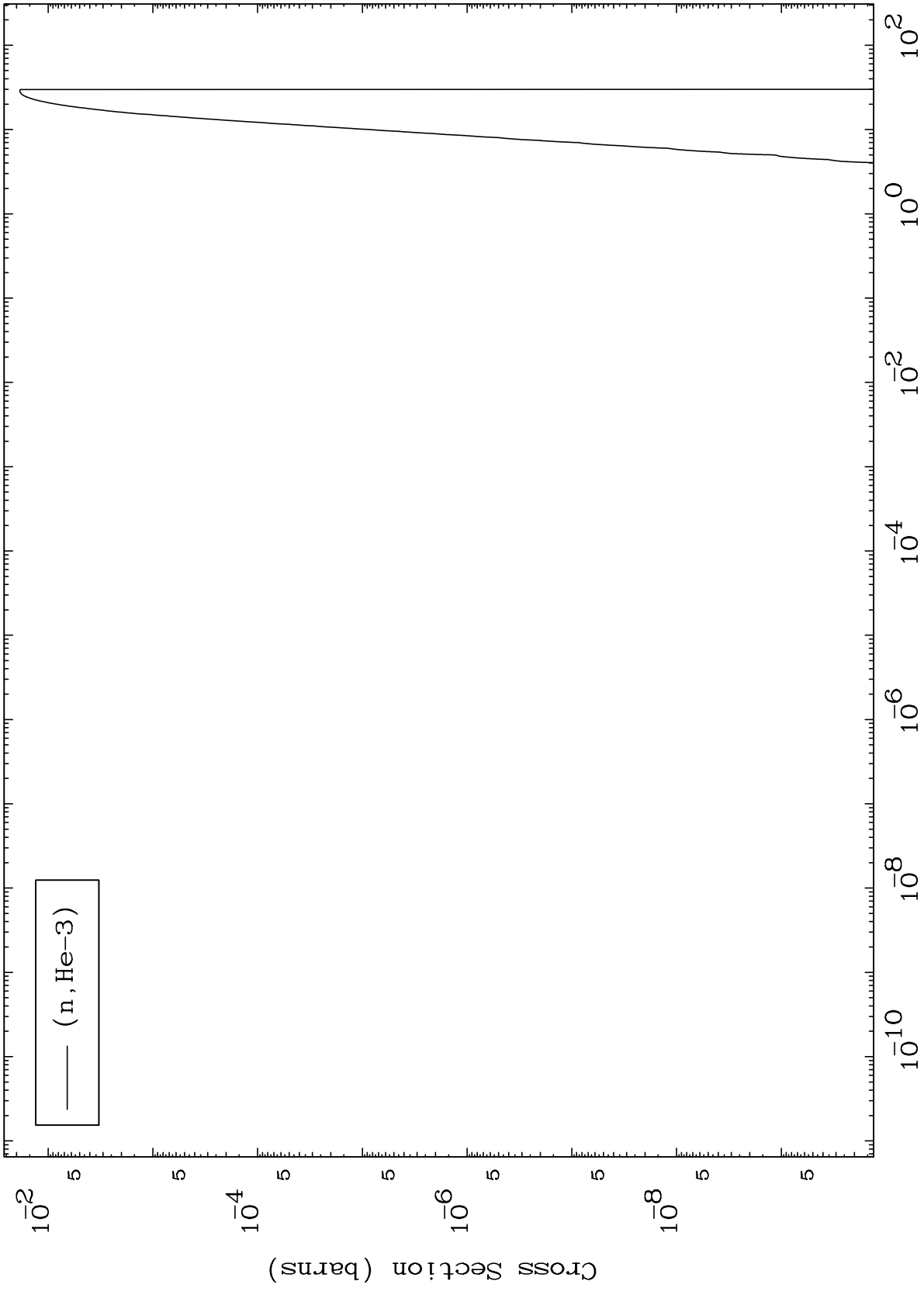
Incident Energy (MeV)

71-Lu-154

MAT 7062

(n,He3) Levels
293 Kelvin Cross Sections

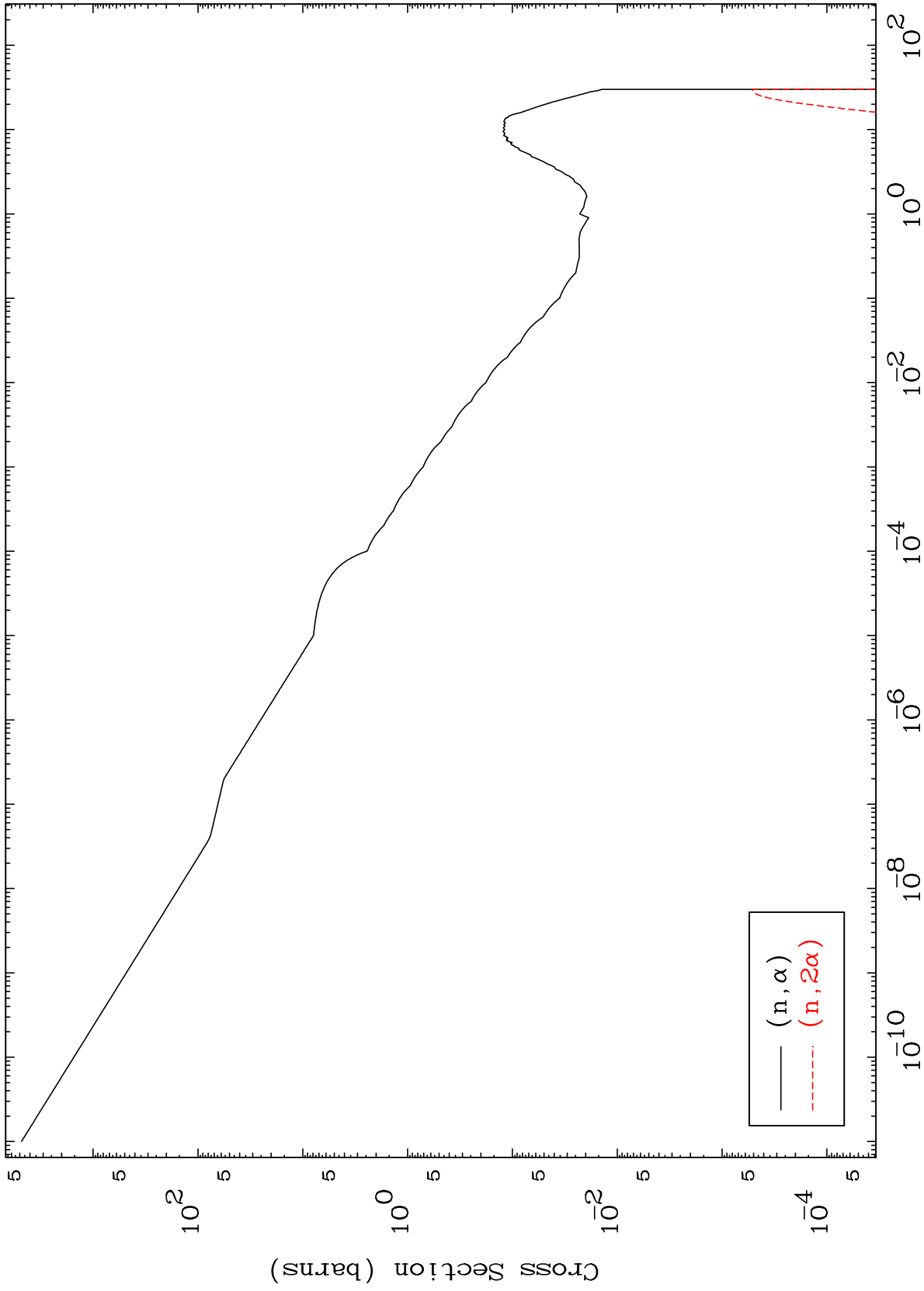
71-Lu-154



MAT 7062

(n,α) Levels
293 Kelvin Cross Sections

71-Lu-154



15

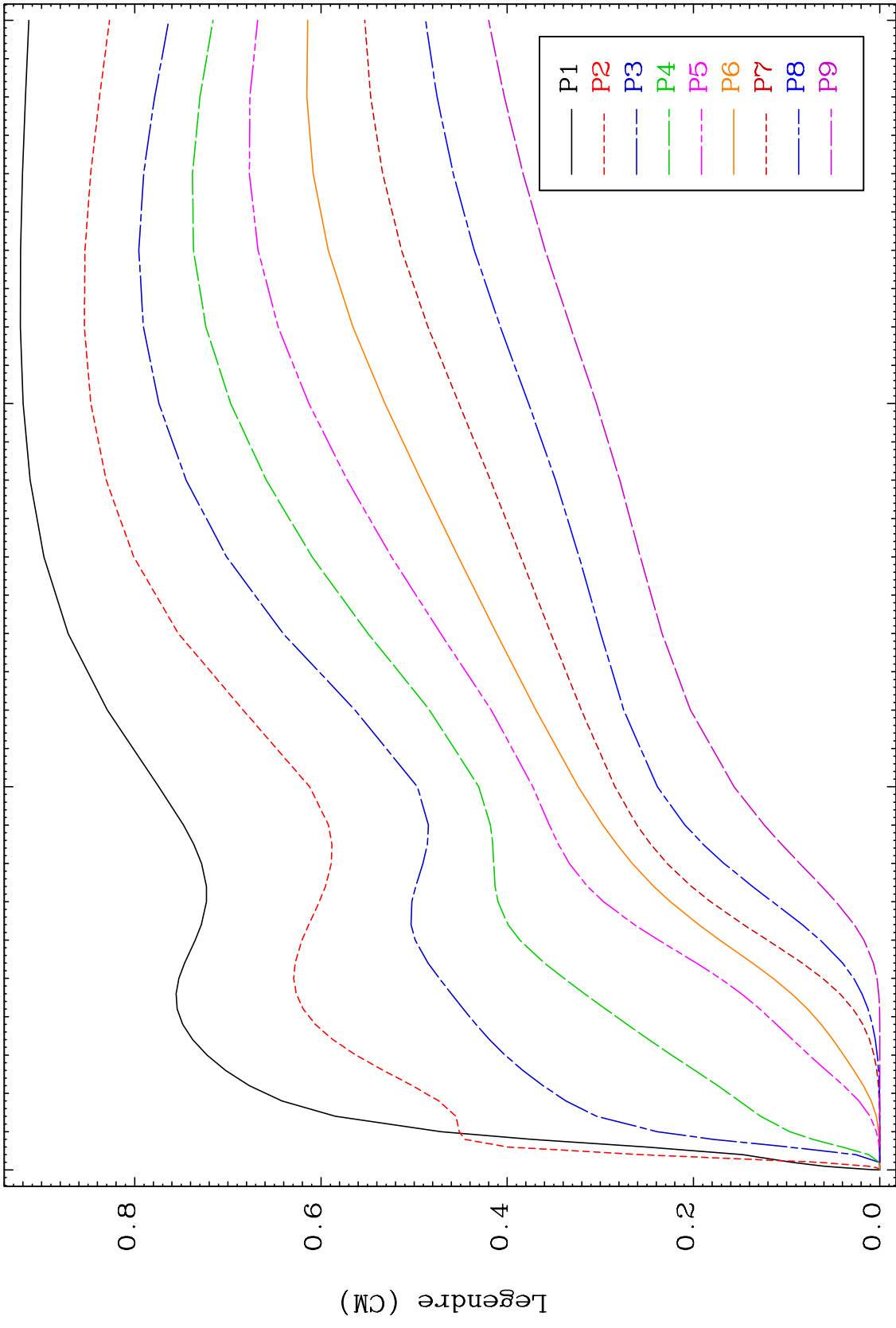
Incident Energy (MeV)

71-Lu-154

MAT 7062

Elastic Legendre Coefficients

71-Lu-154



16

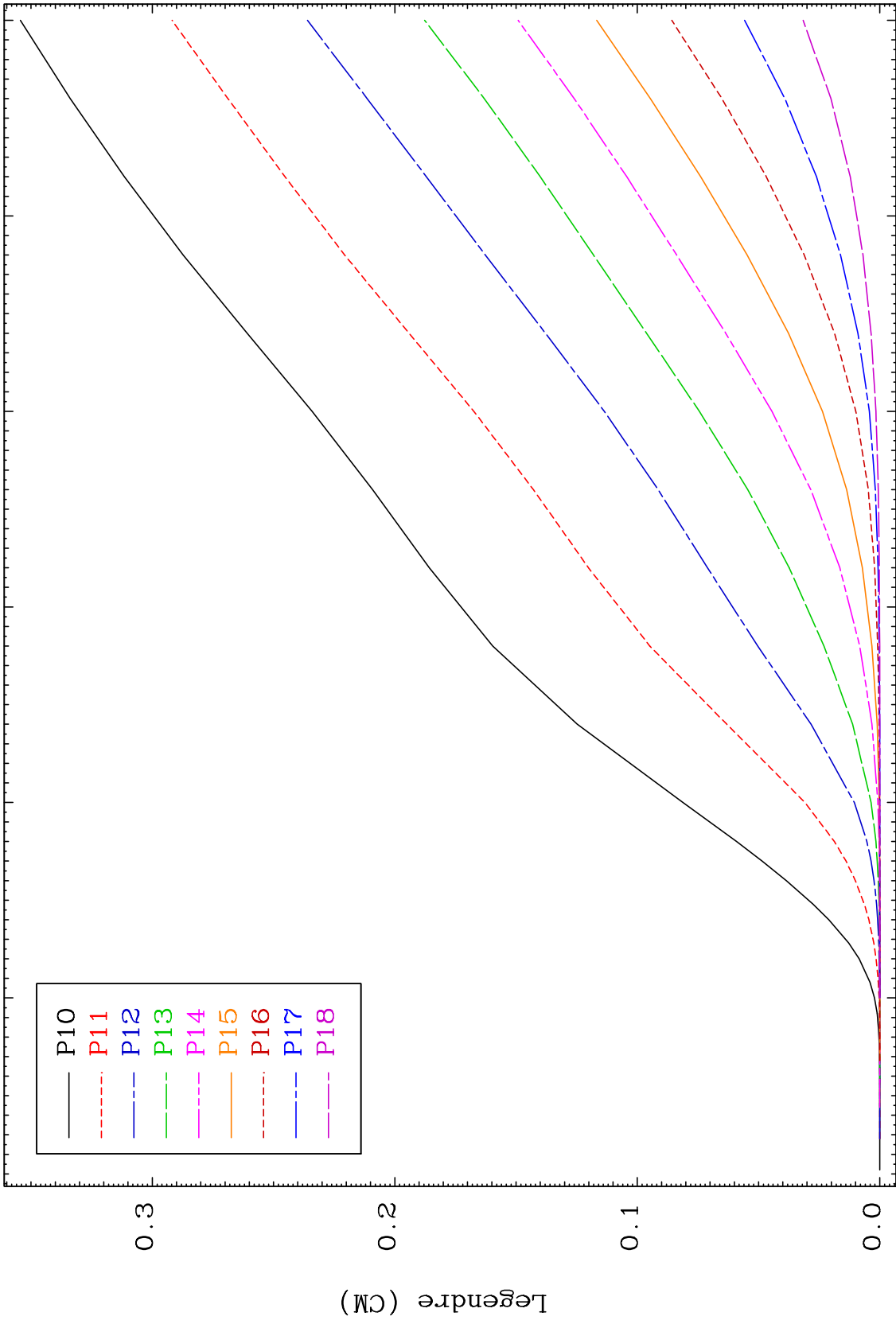
Incident Energy (MeV)

71-Lu-154

MAT 7062

Elastic Legendre Coefficients

71-Lu-154



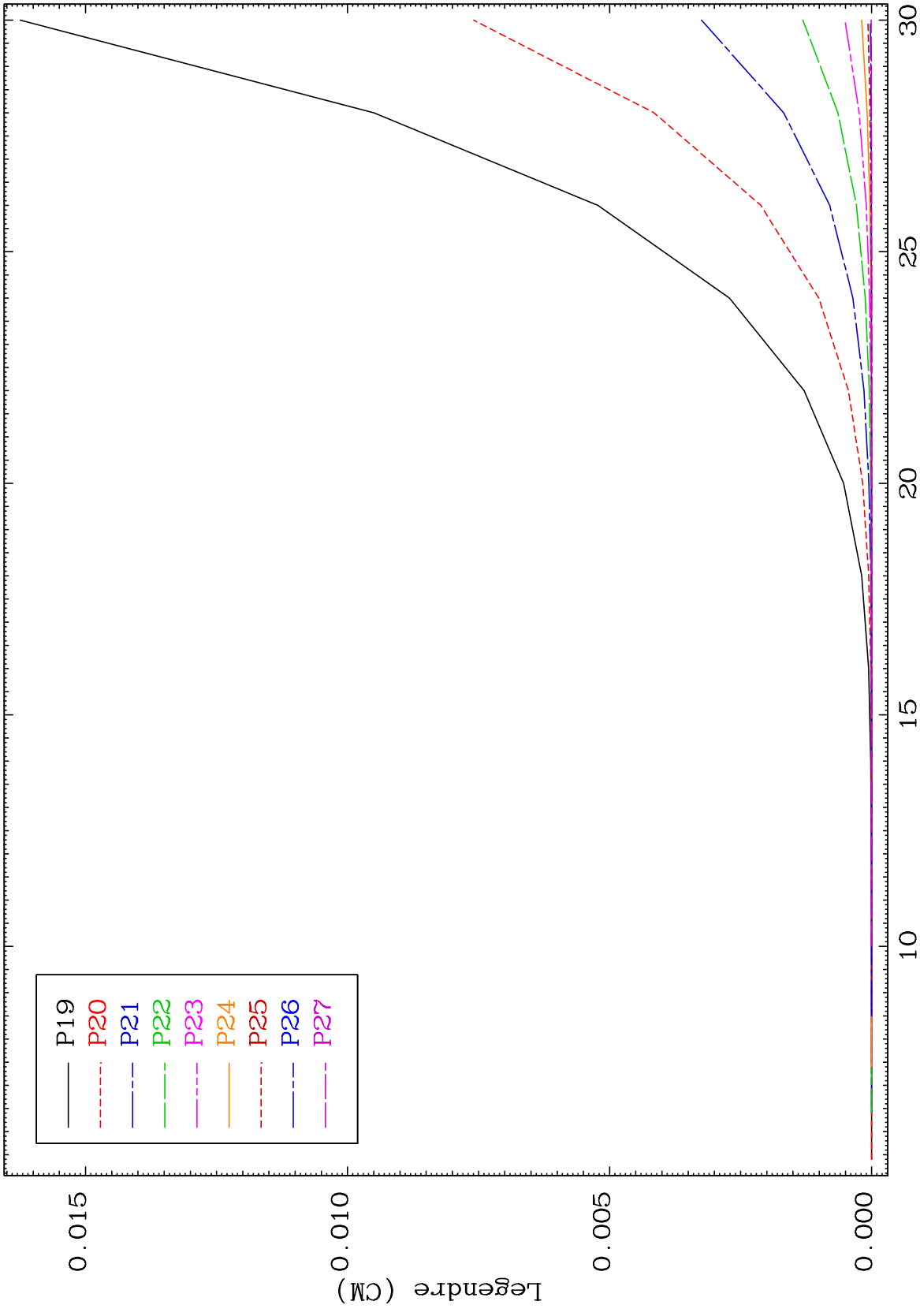
17

71-Lu-154

MAT 7062

Elastic Legendre Coefficients

71-Lu-154



18

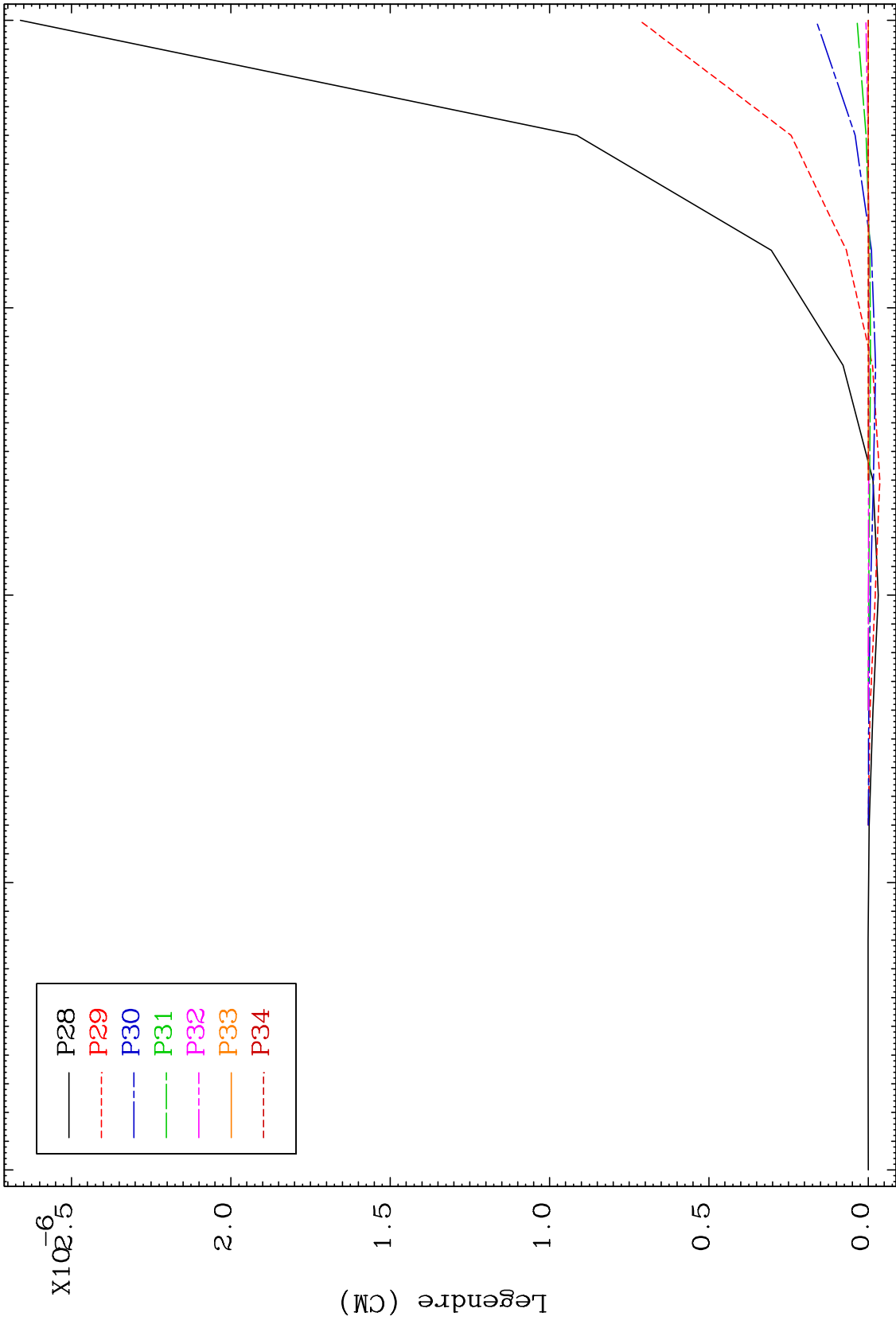
Incident Energy (MeV)

71-Lu-154

MAT 7062

Elastic Legendre Coefficients

71-Lu-154



19

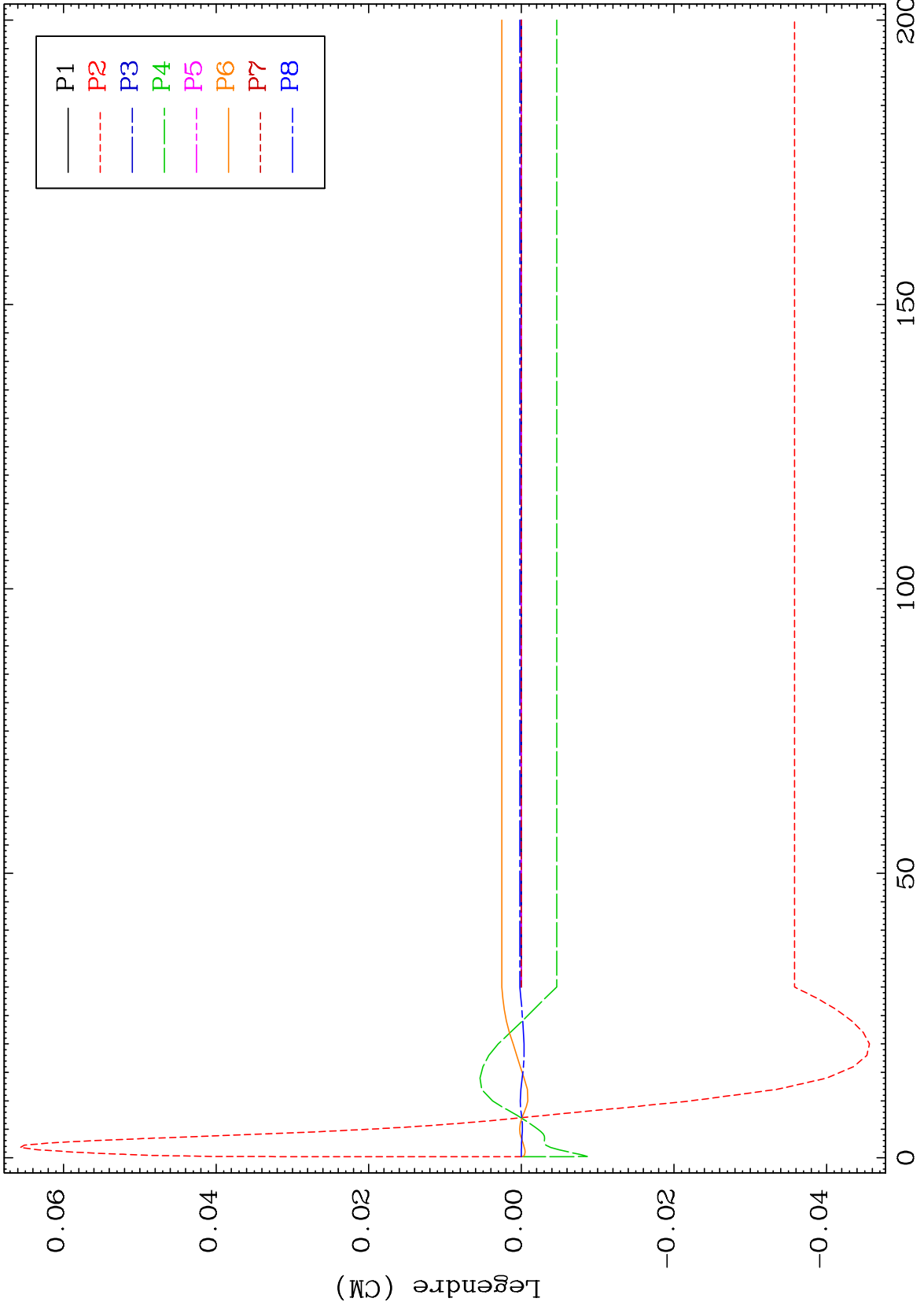
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



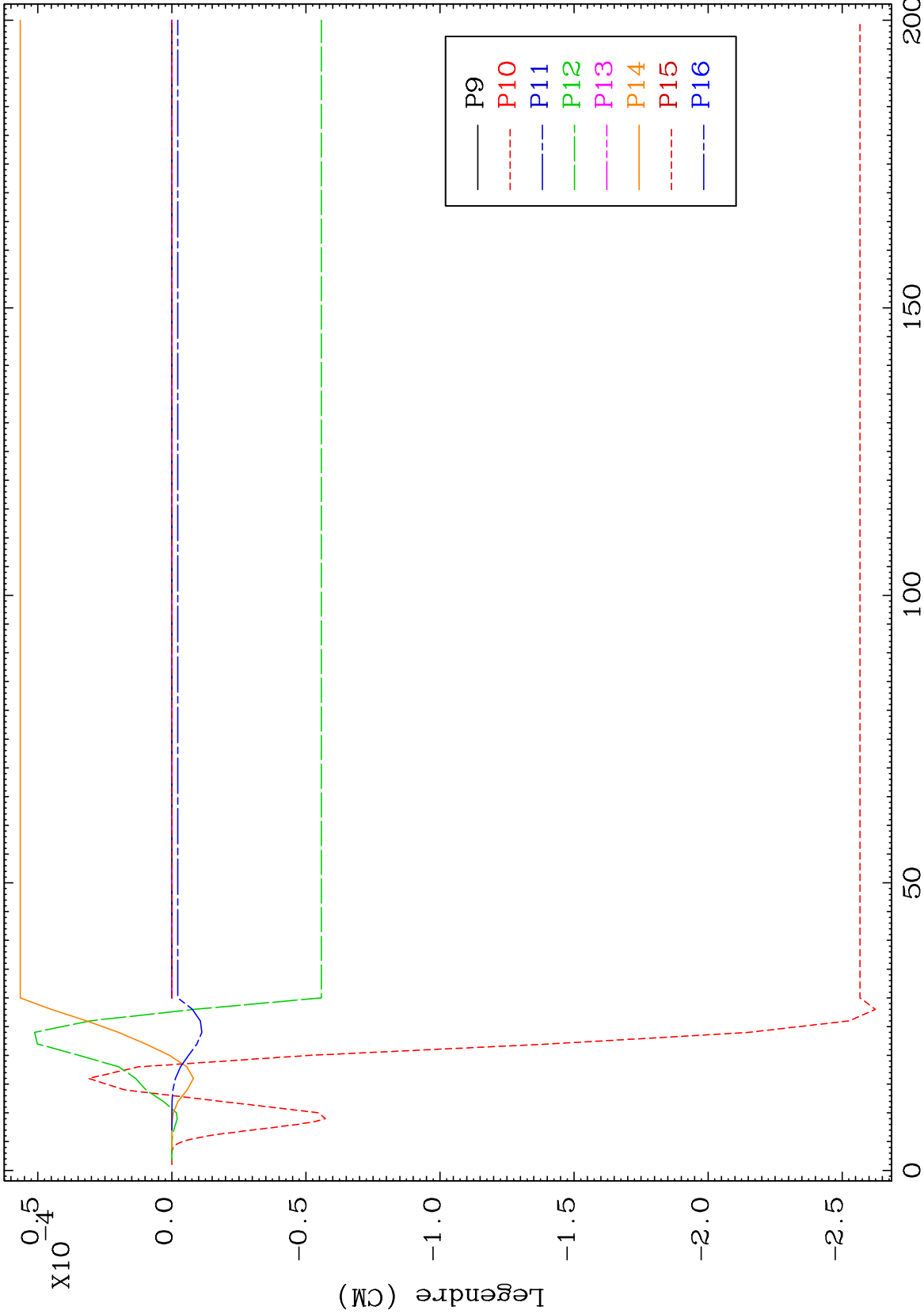
71-Lu-154

Incident Energy (MeV)

MAT 7062

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

71-Lu-154



21

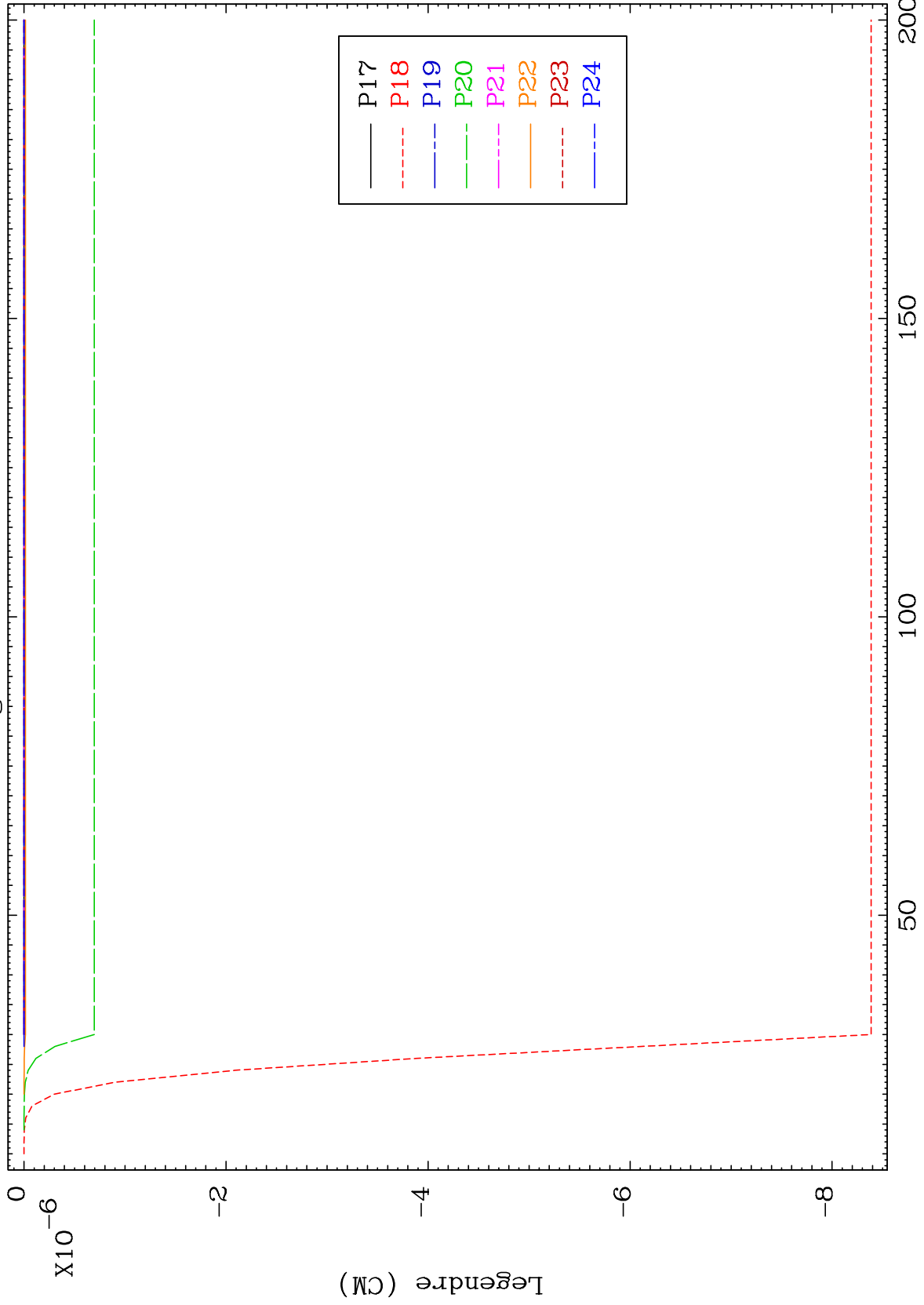
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



71-Lu-154

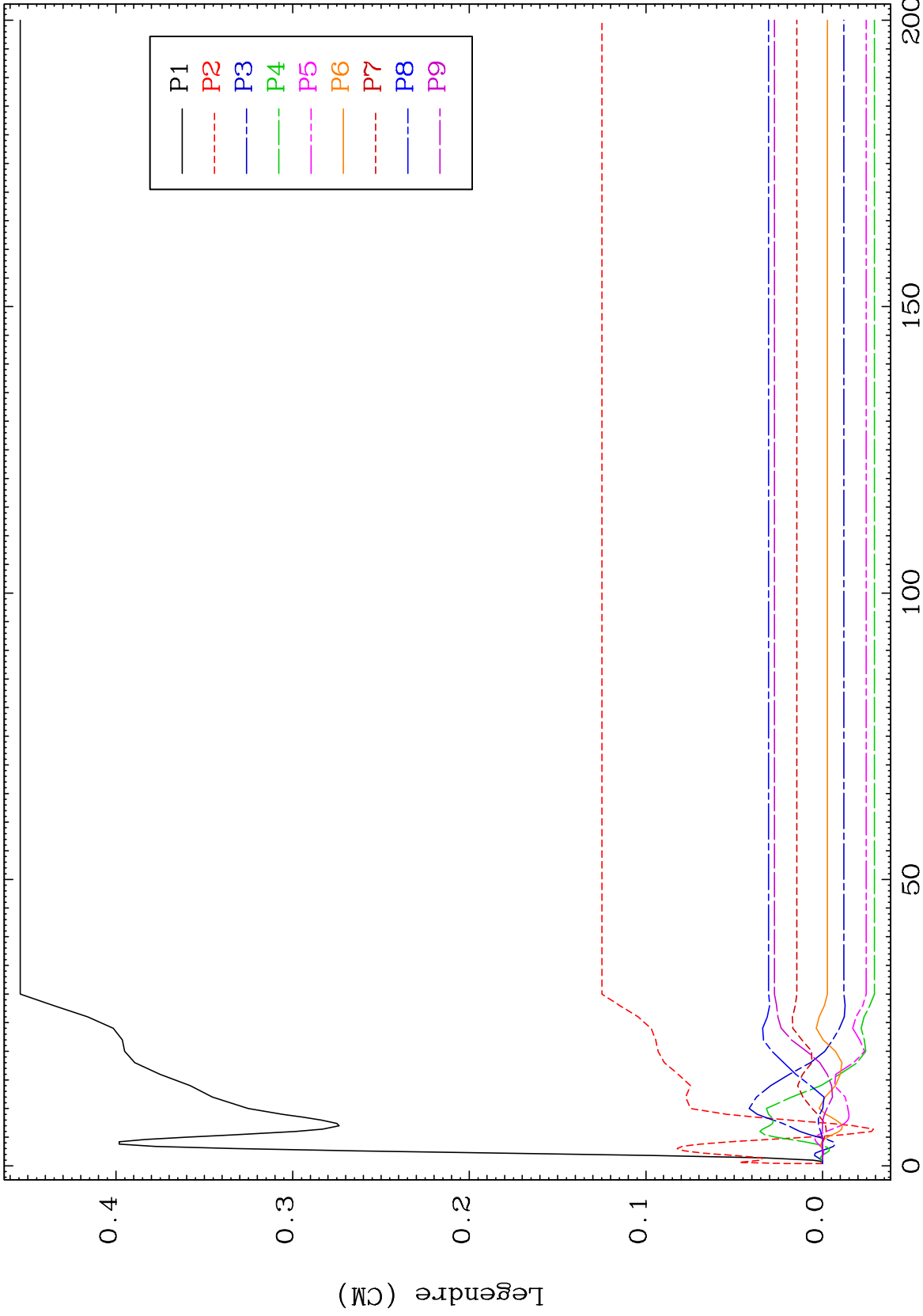
Incident Energy (MeV)

22

MAT 7062

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

71-Lu-154



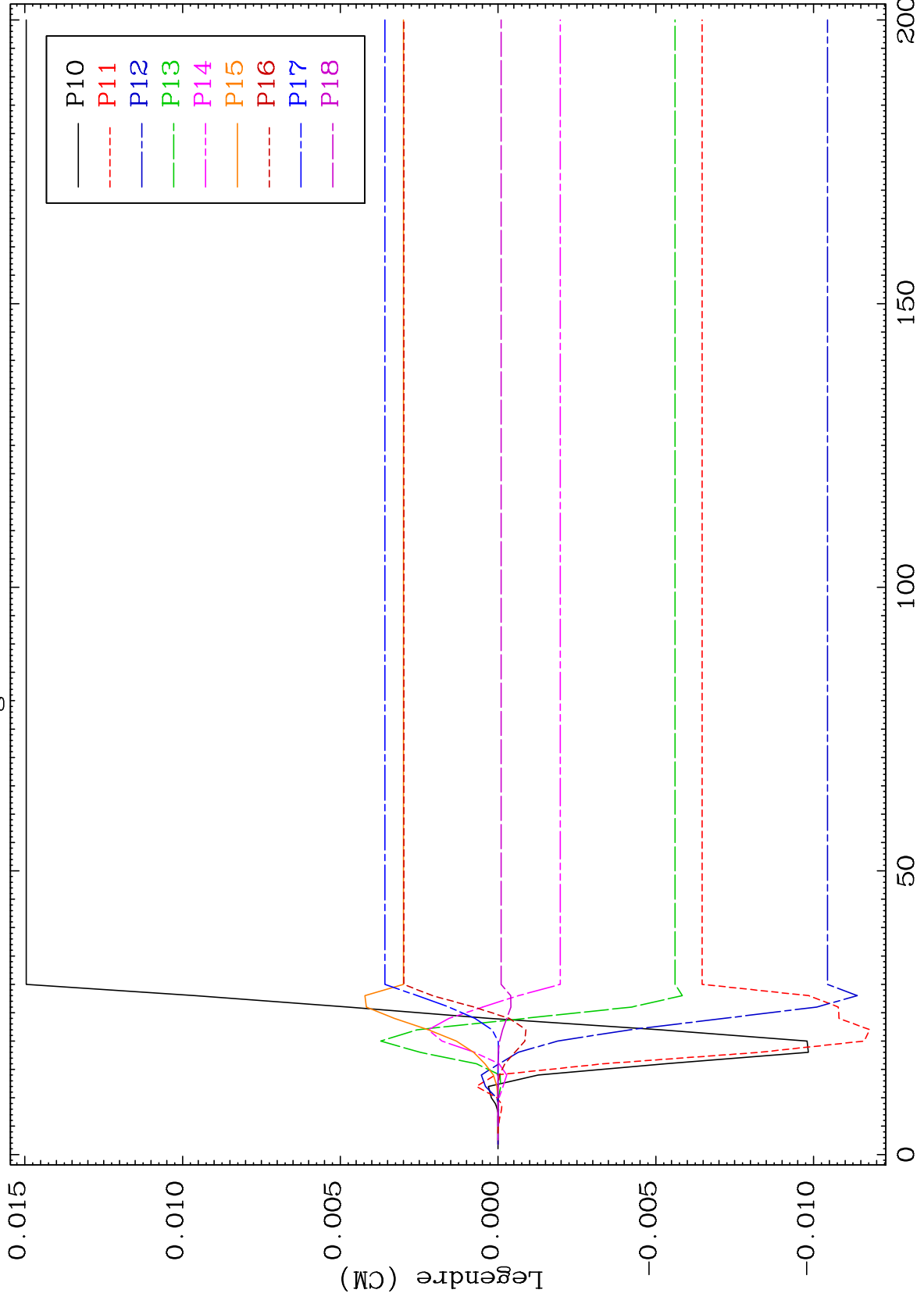
23

71-Lu-154

MAT 7062

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

71-Lu-154



24

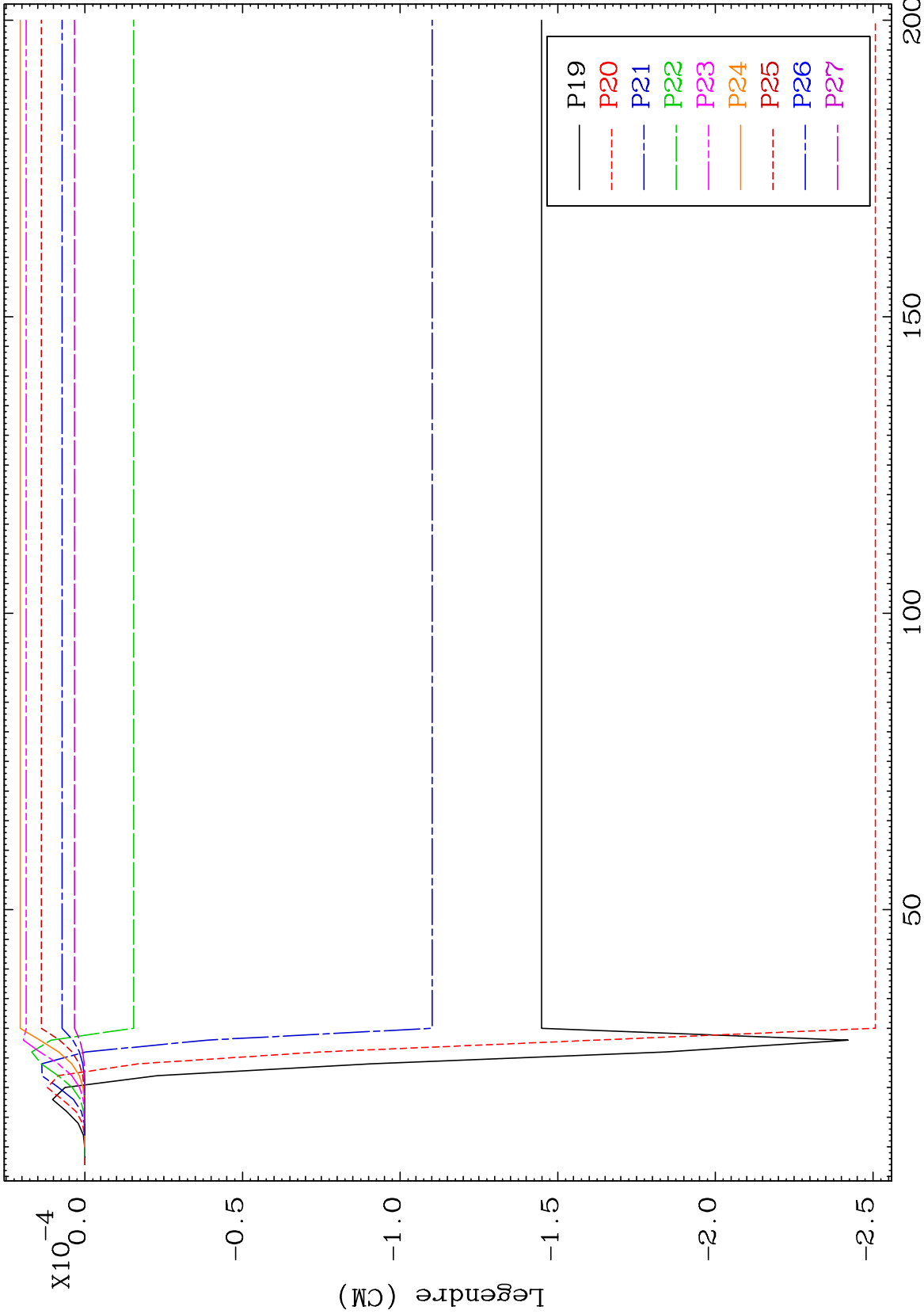
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



25

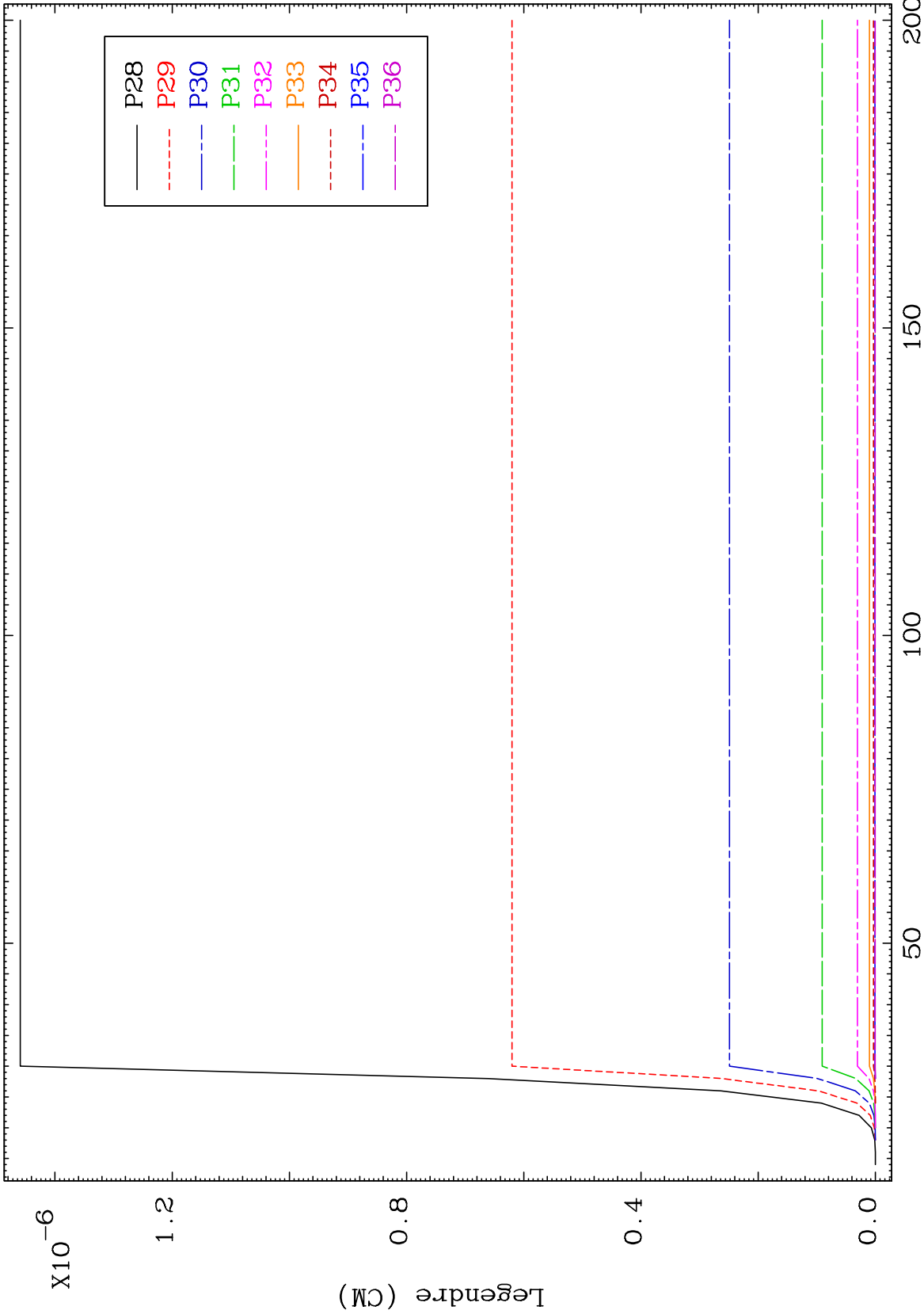
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



26

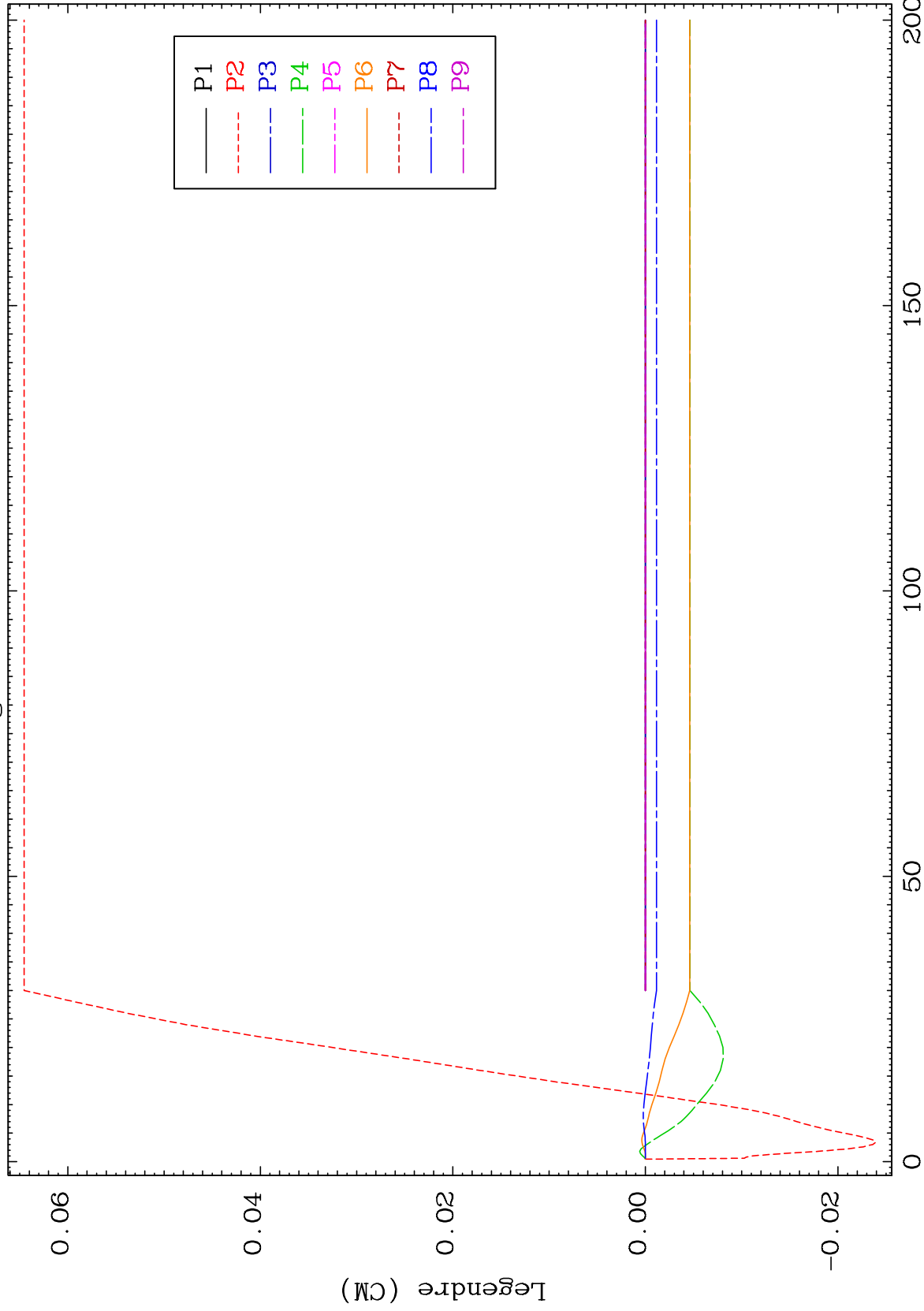
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



27

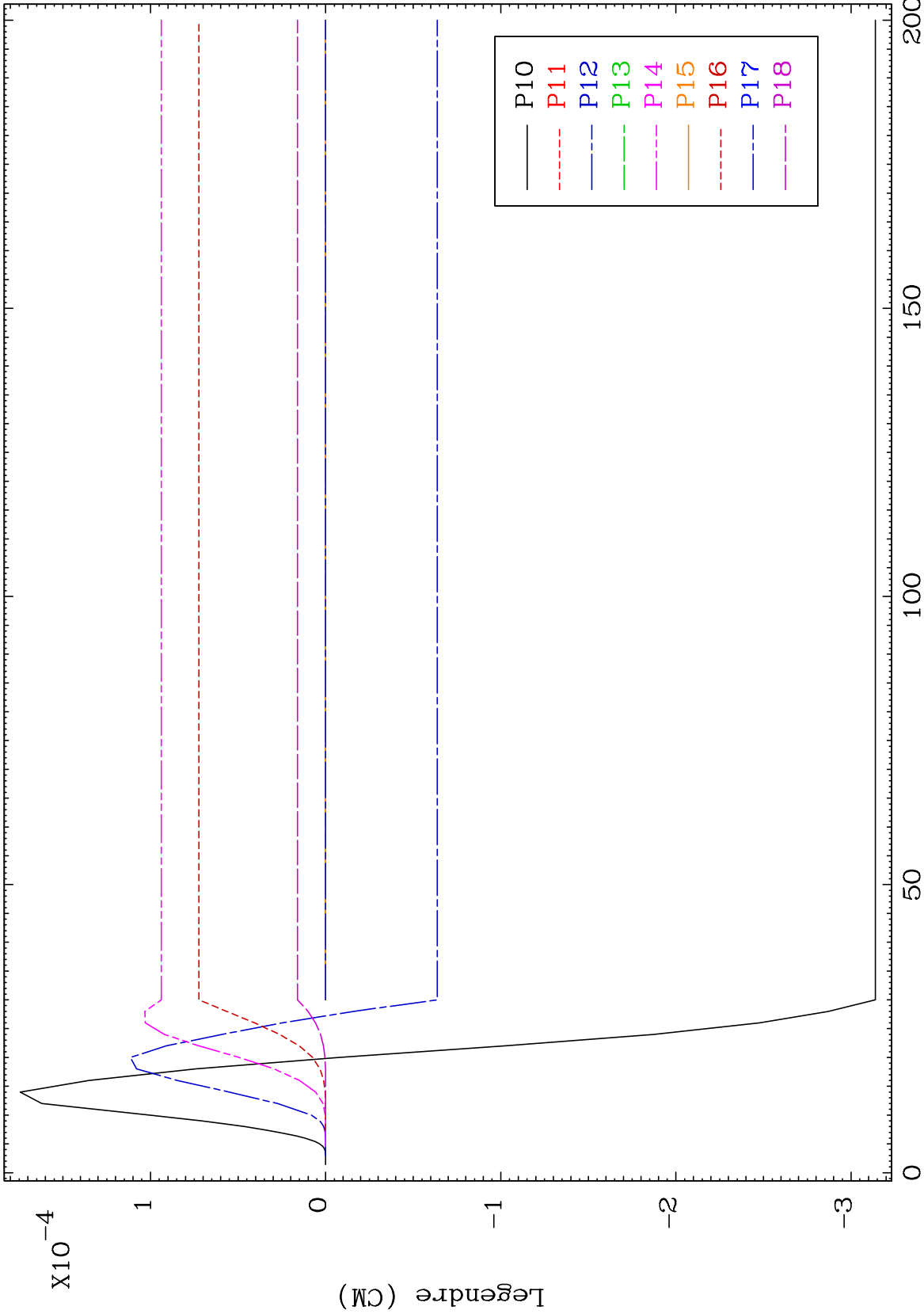
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



28

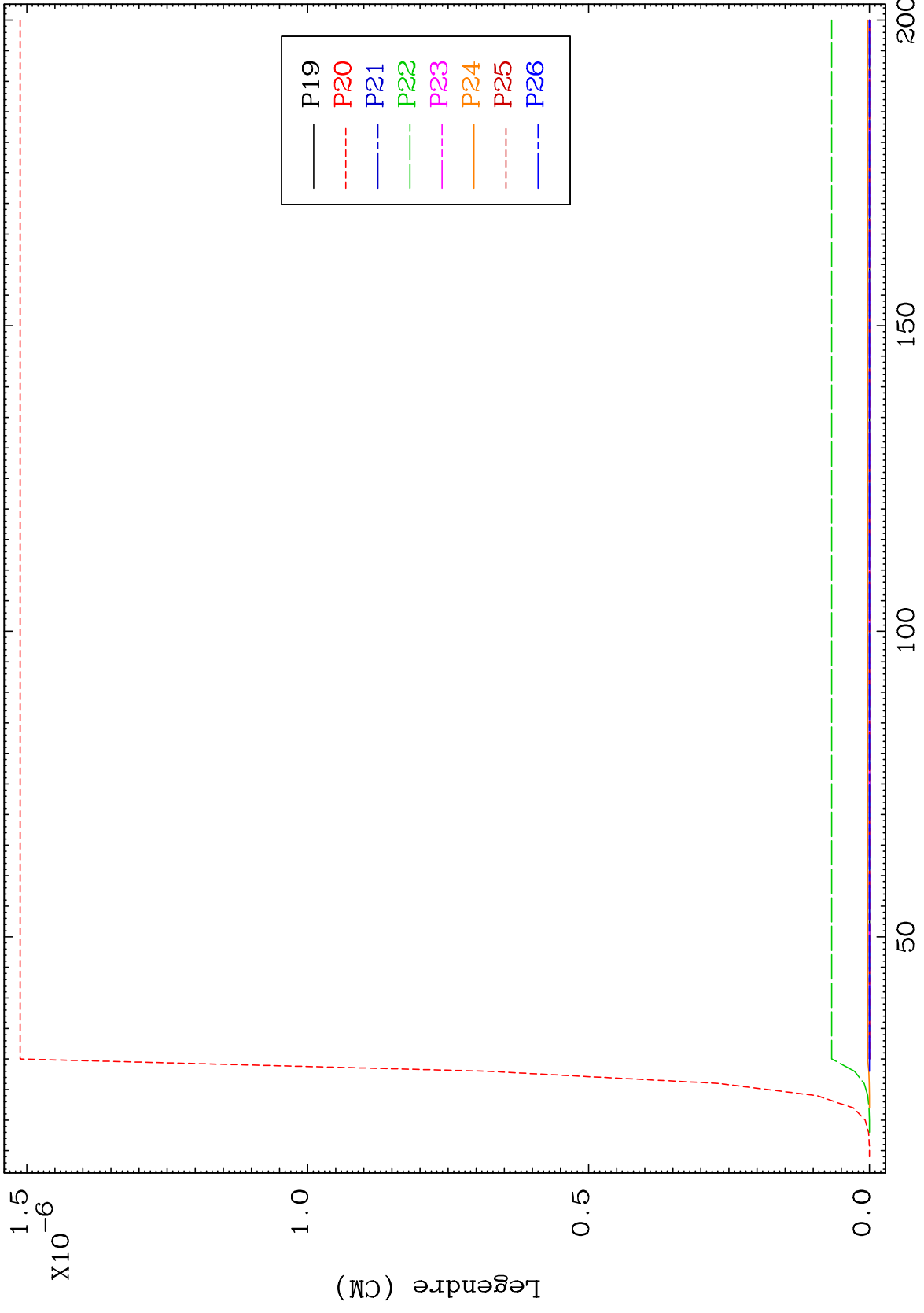
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



29

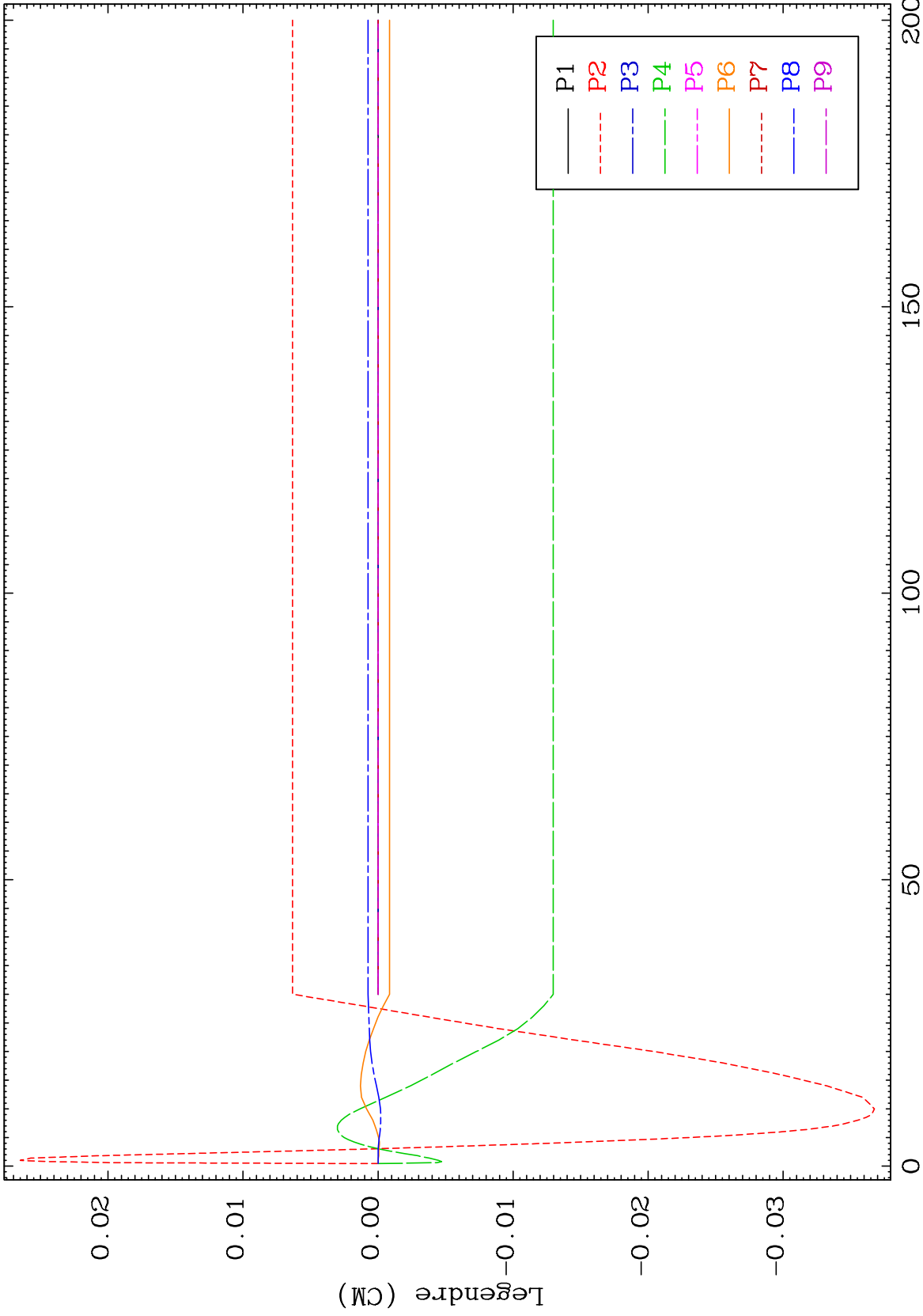
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



71-Lu-154

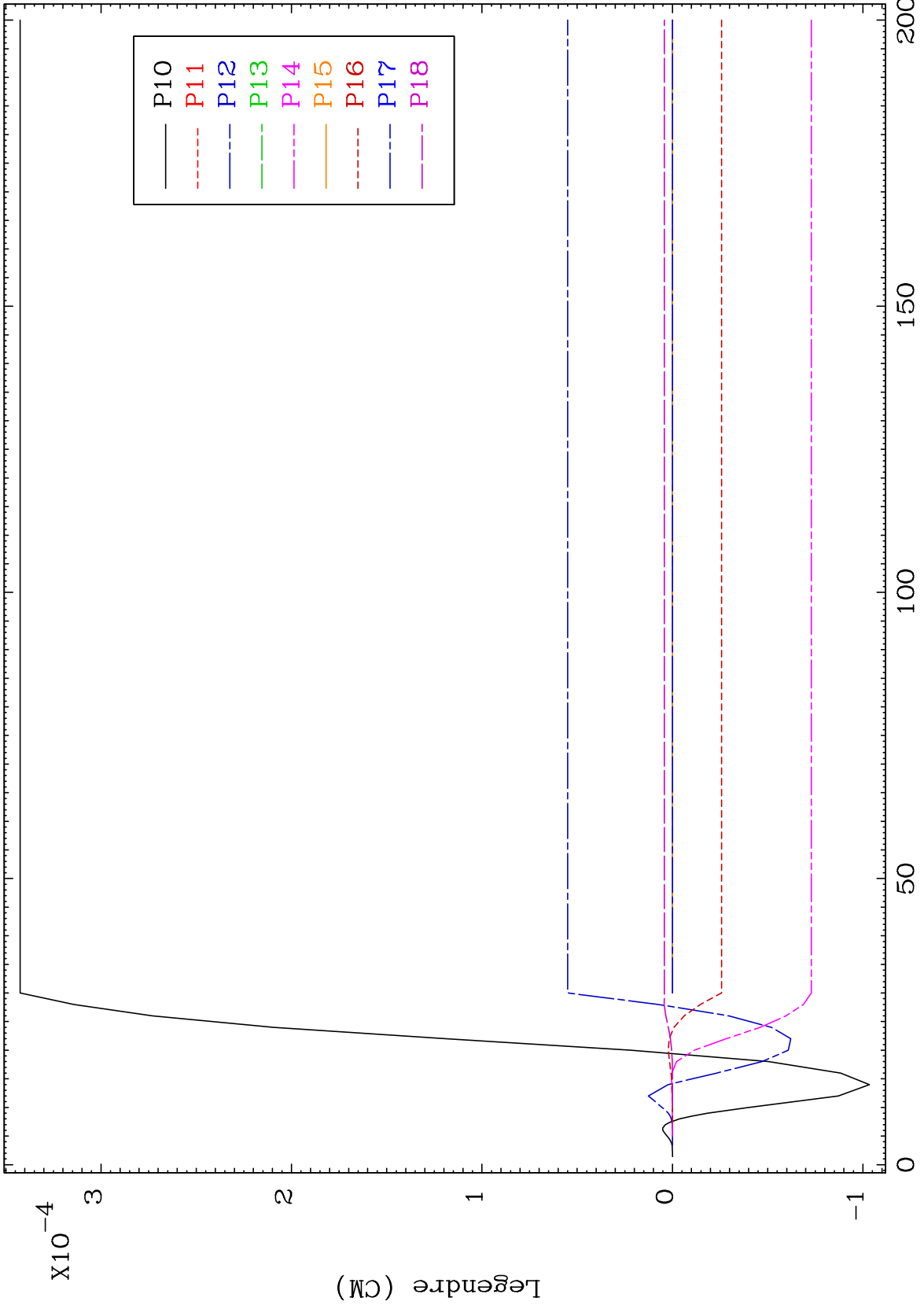
Incident Energy (MeV)

30

MAT 7062

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

71-Lu-154



31

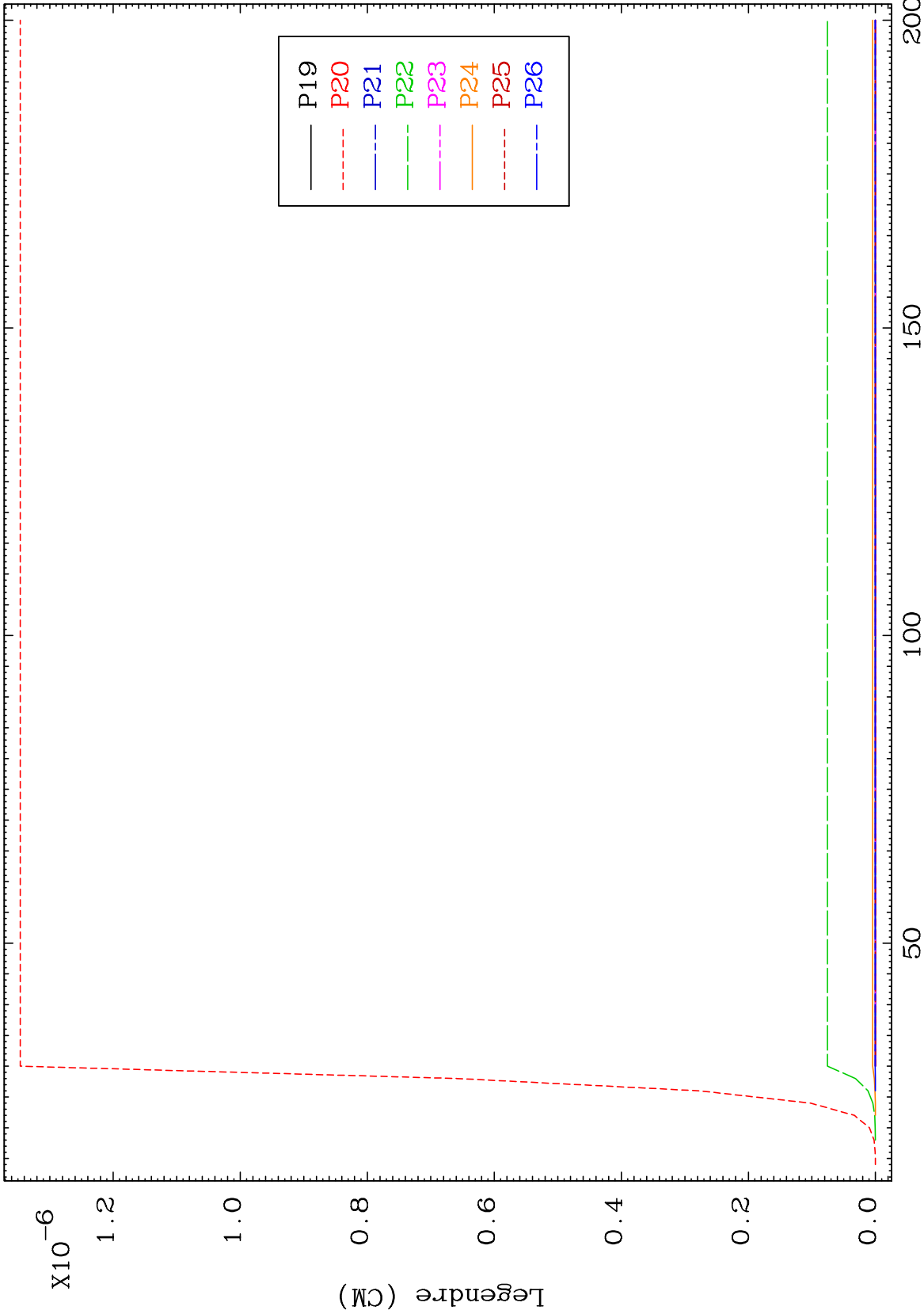
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



32

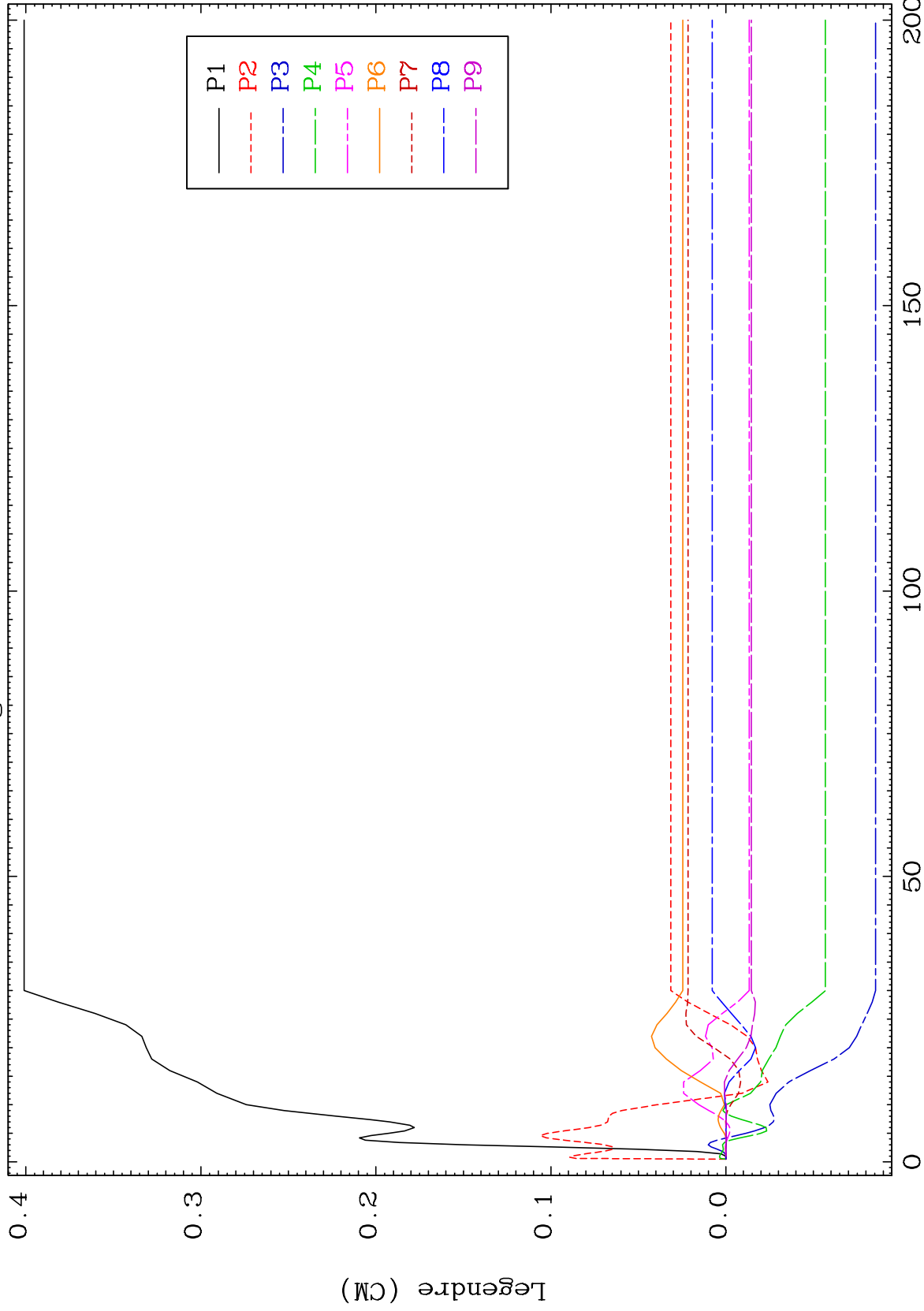
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



33

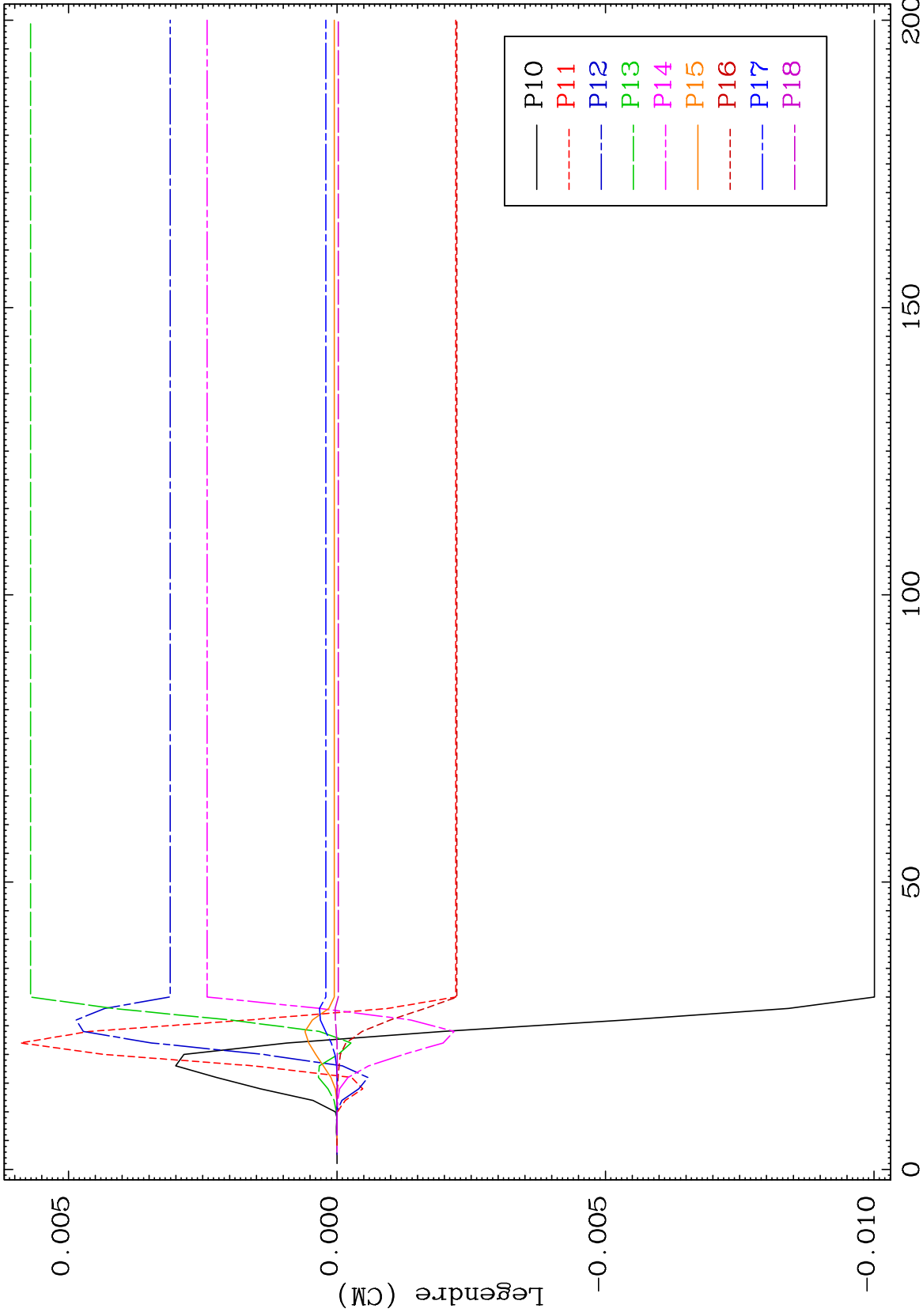
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



34

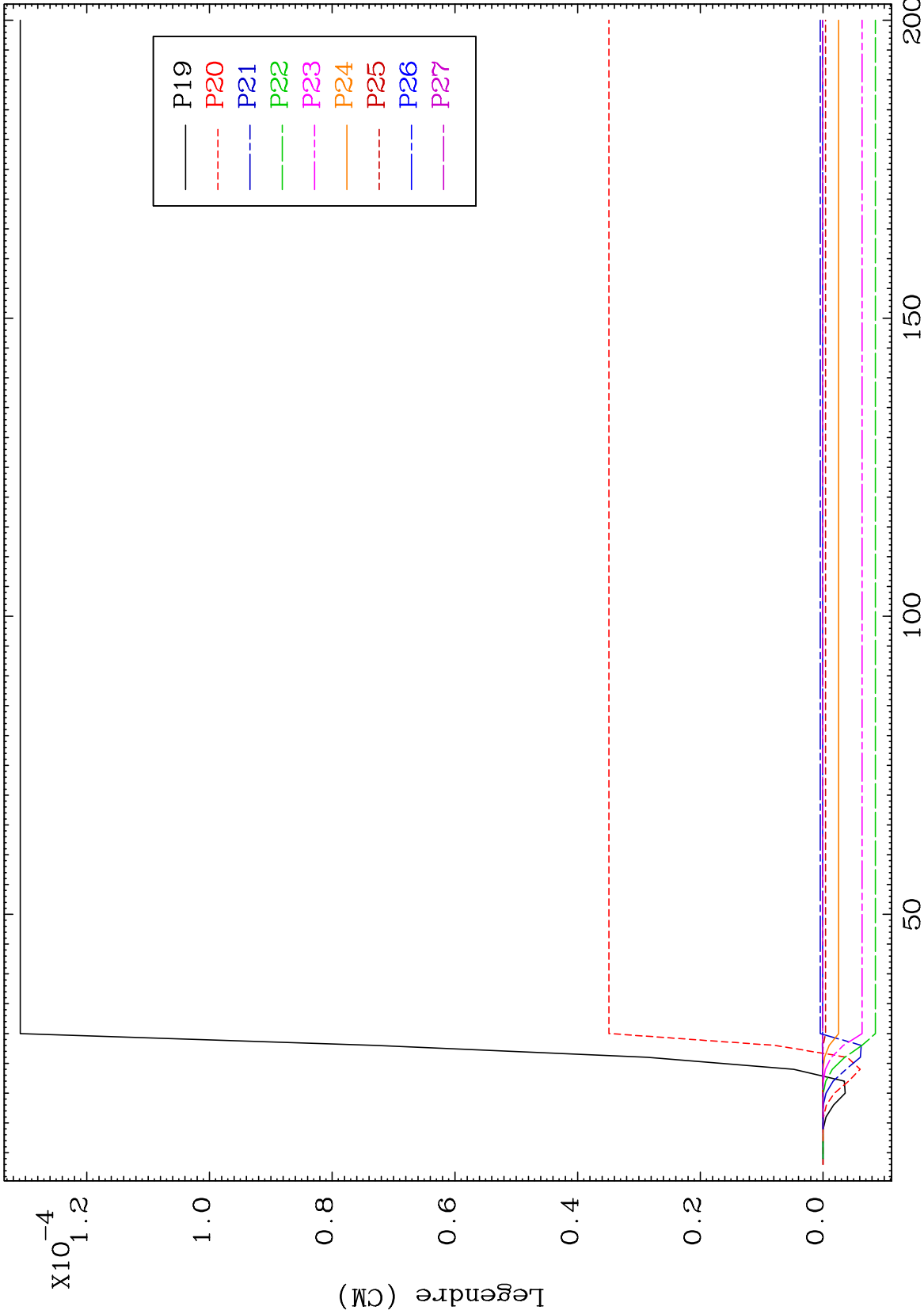
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



35

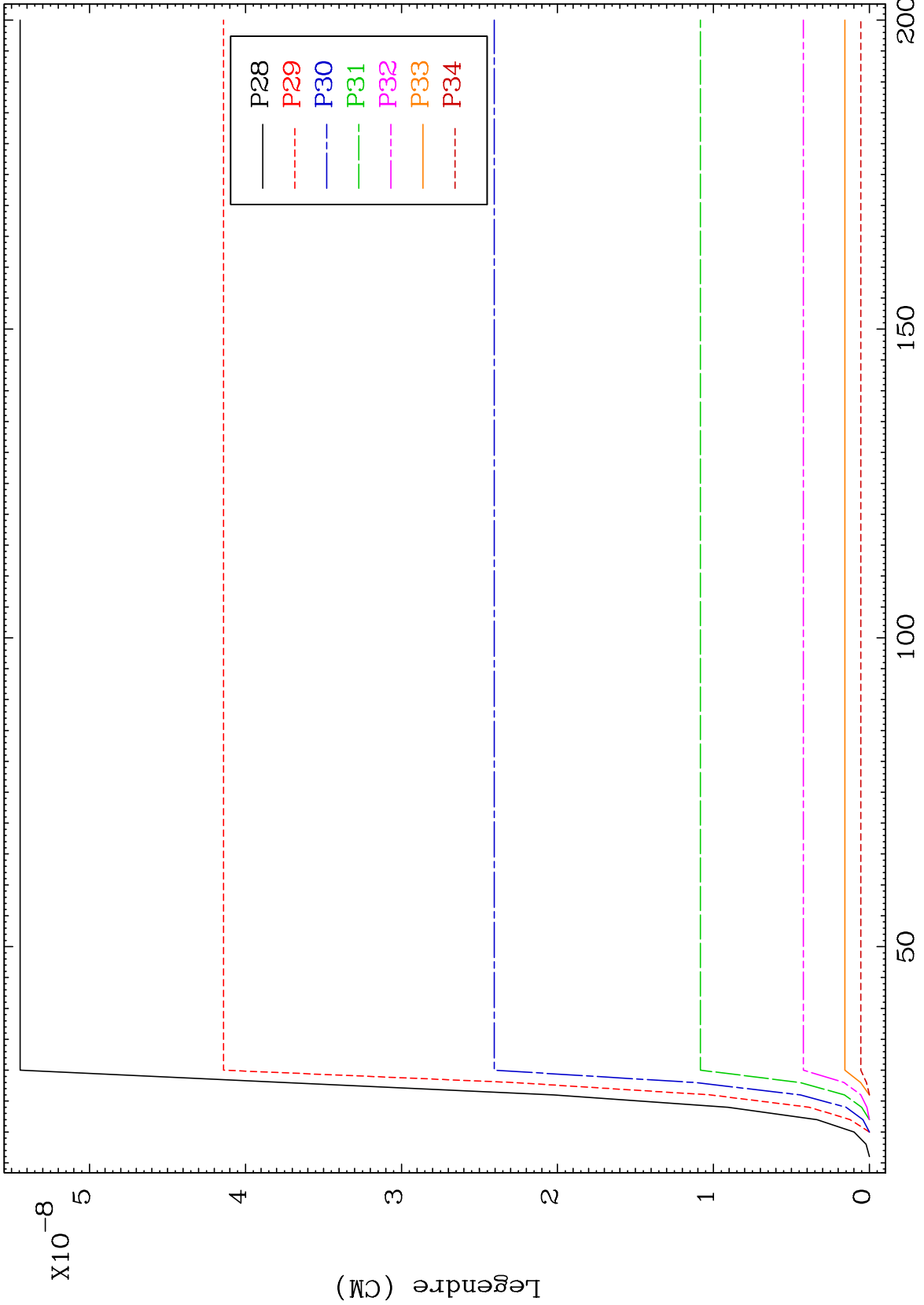
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



36

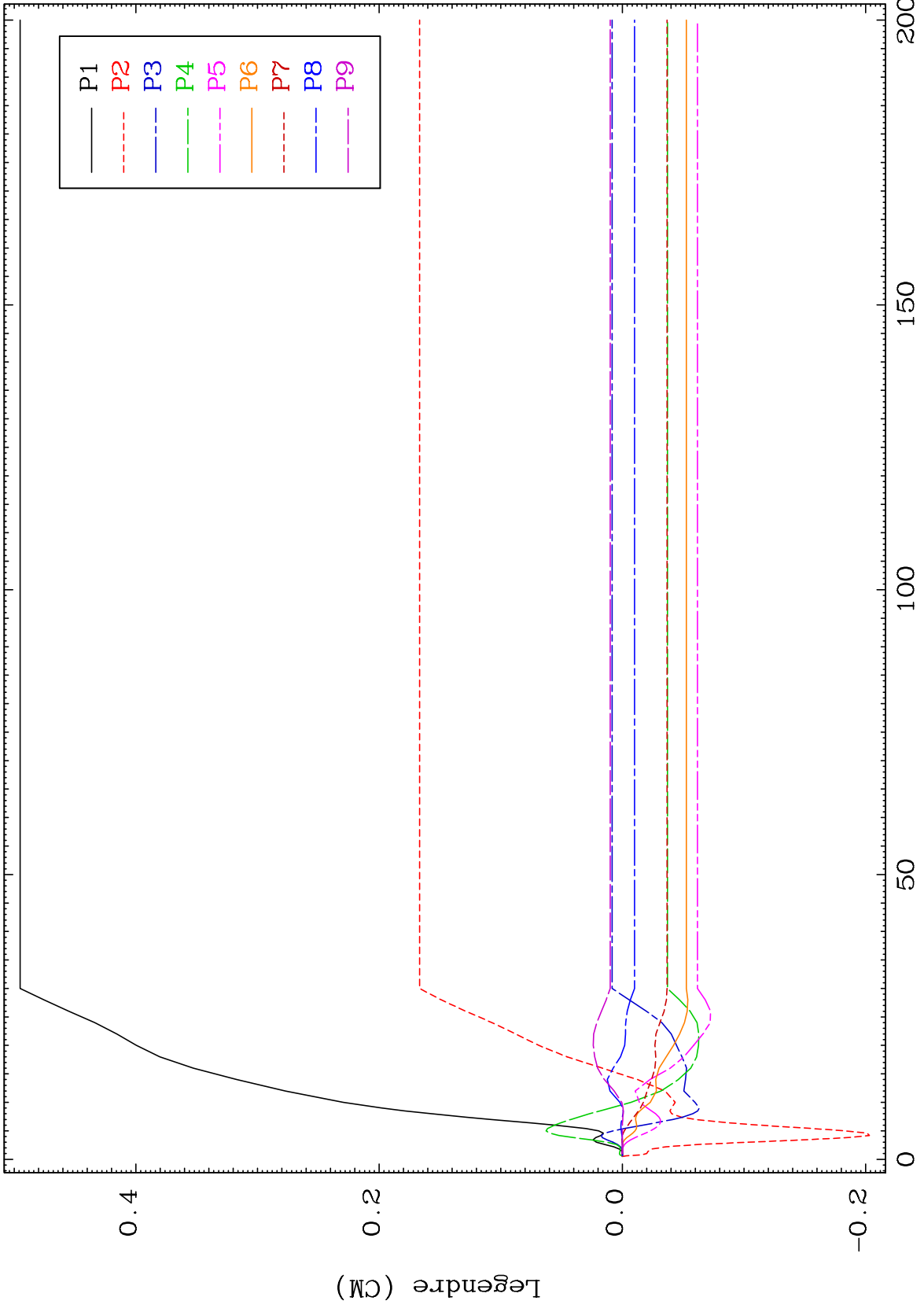
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



37

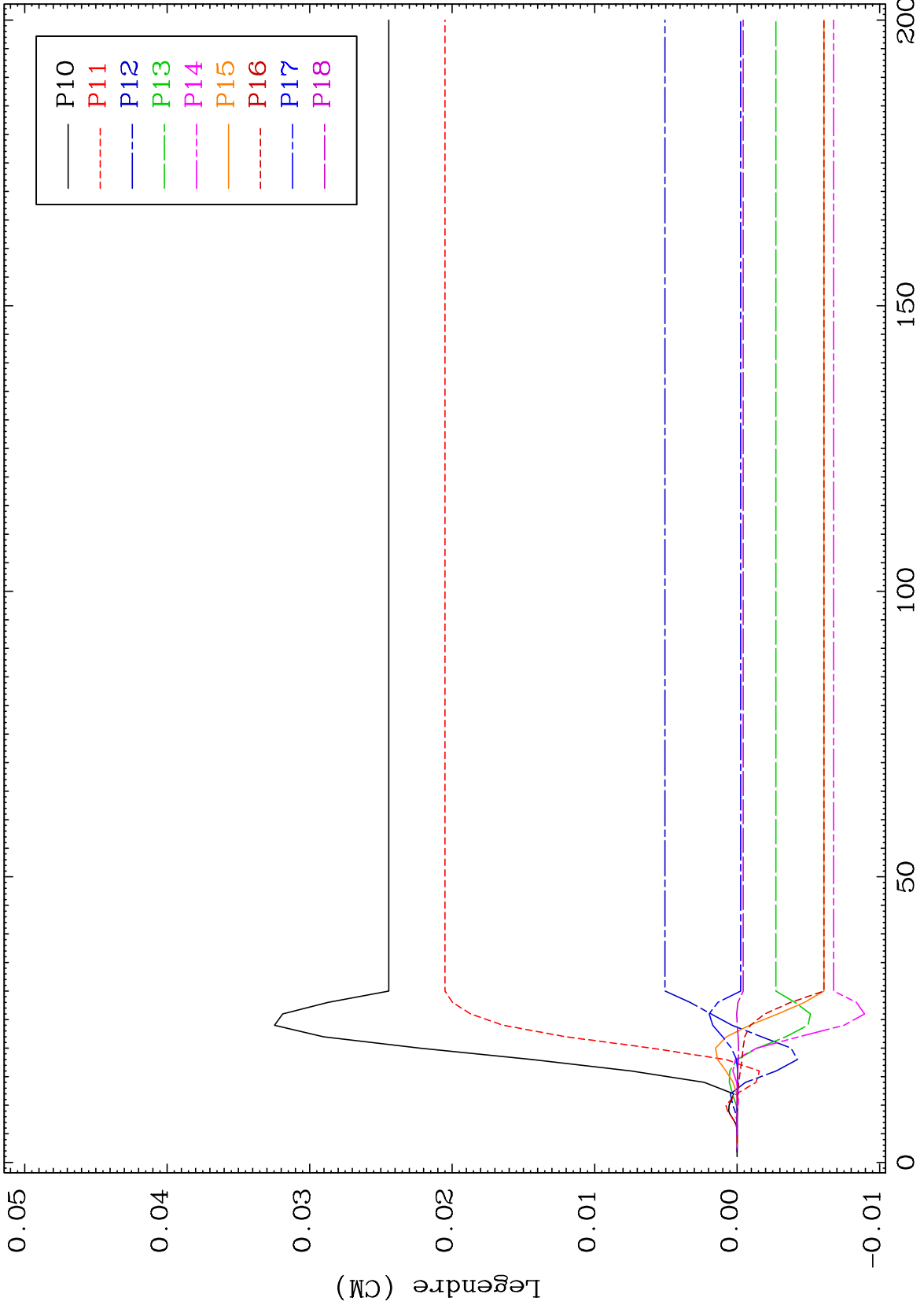
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

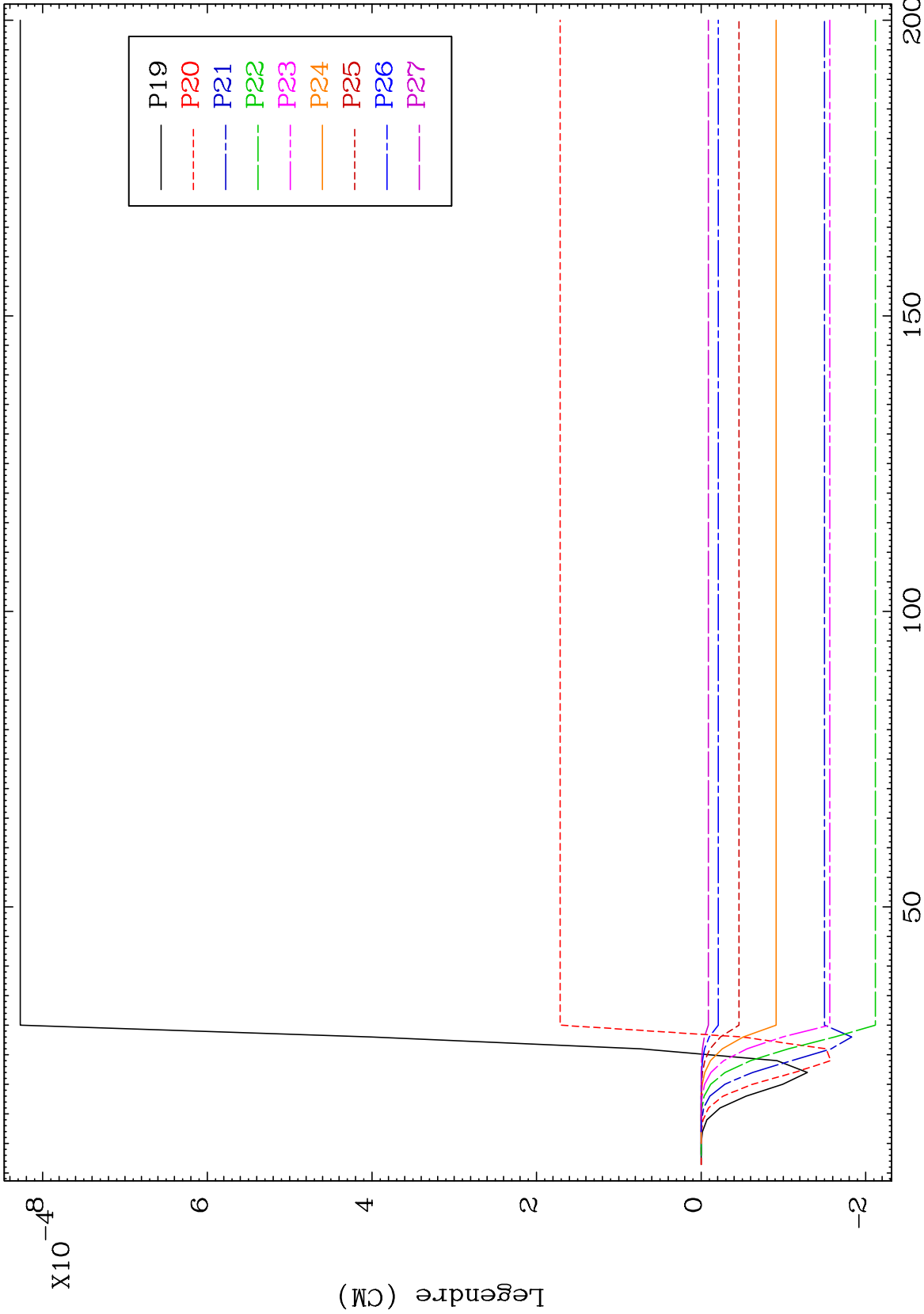
71-Lu-154



38

Incident Energy (MeV)

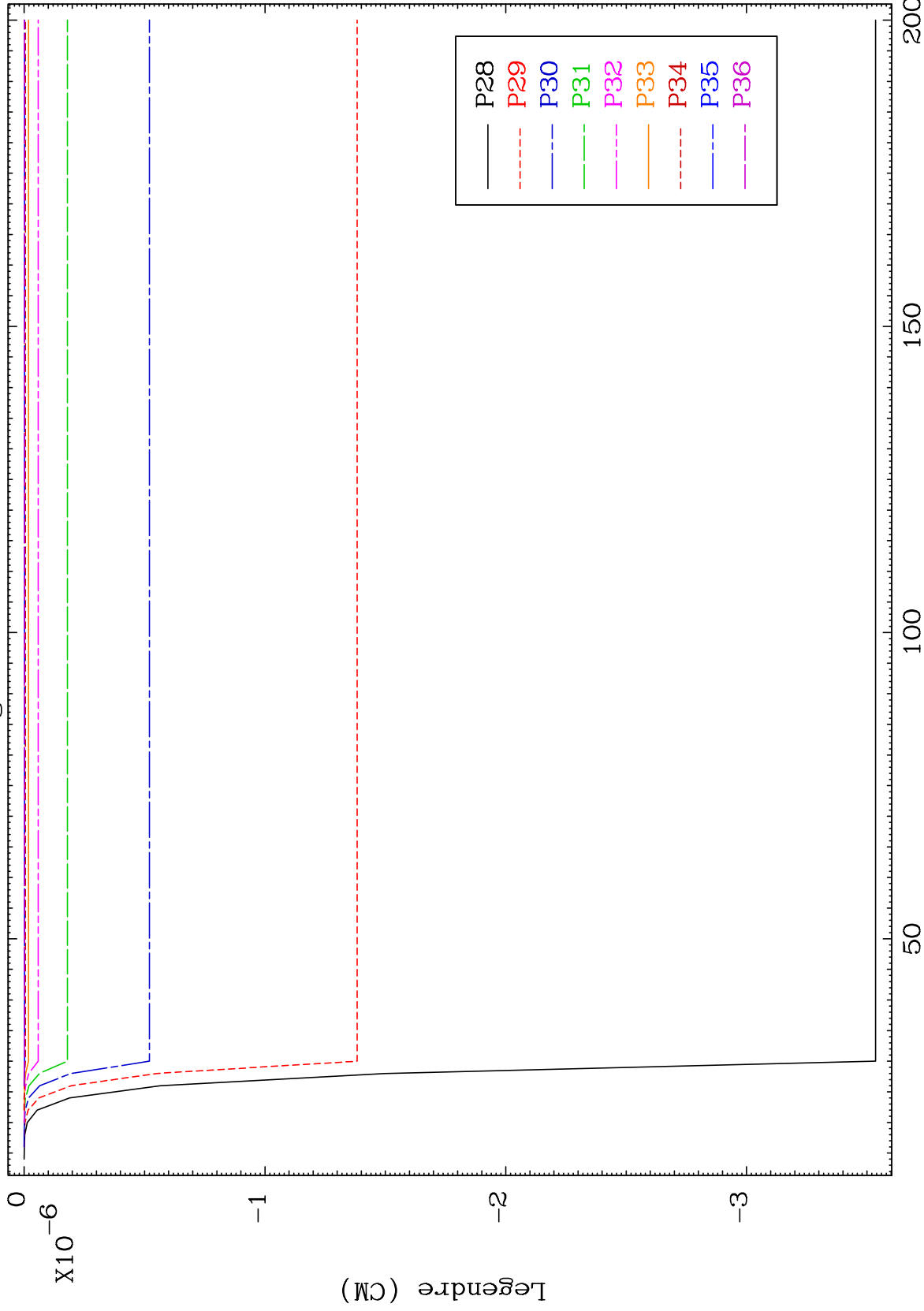
71-Lu-154



MAT 7062

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

71-Lu-154



71-Lu-154

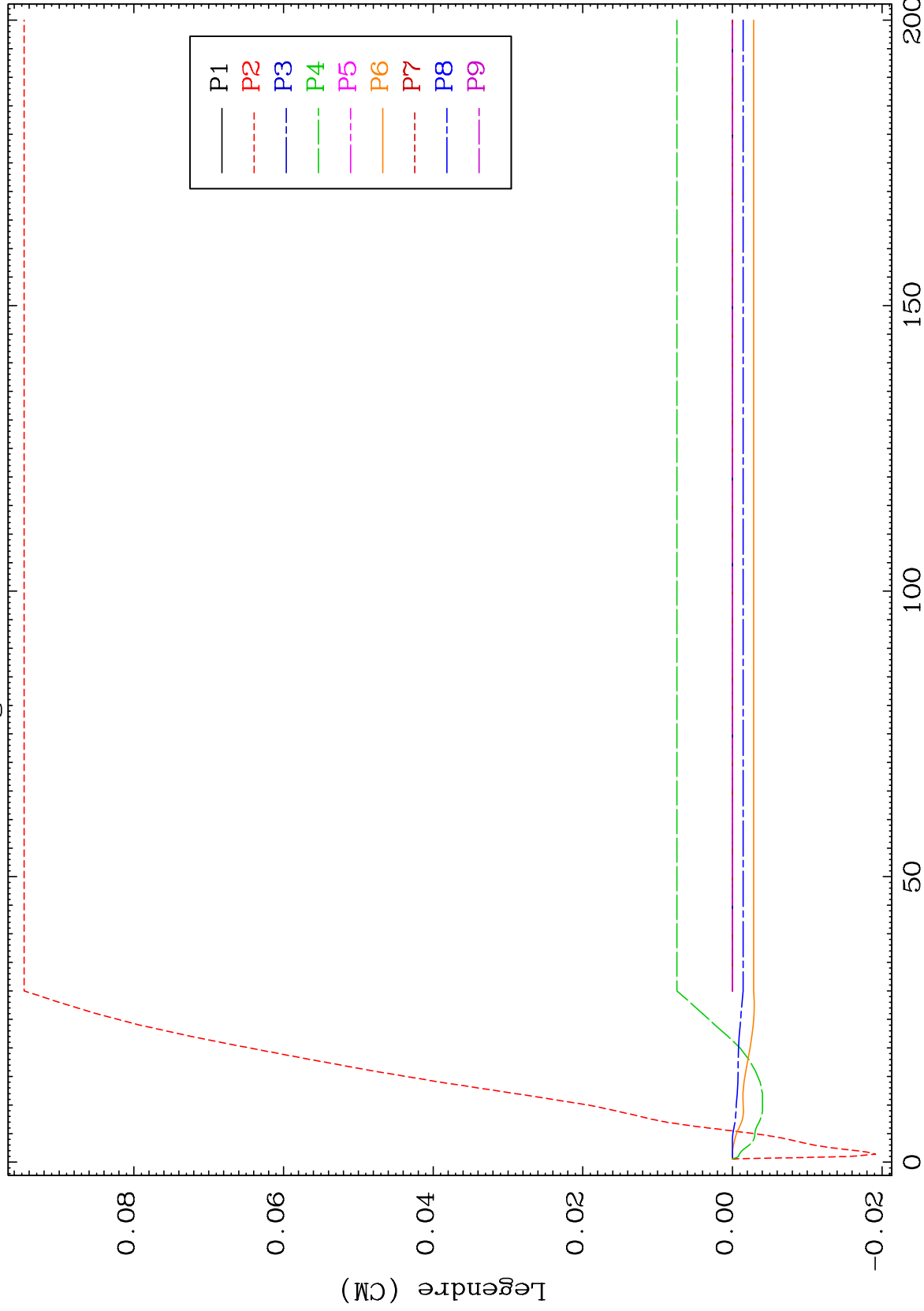
Incident Energy (MeV)

40

MAT 7062

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

71-Lu-154



41

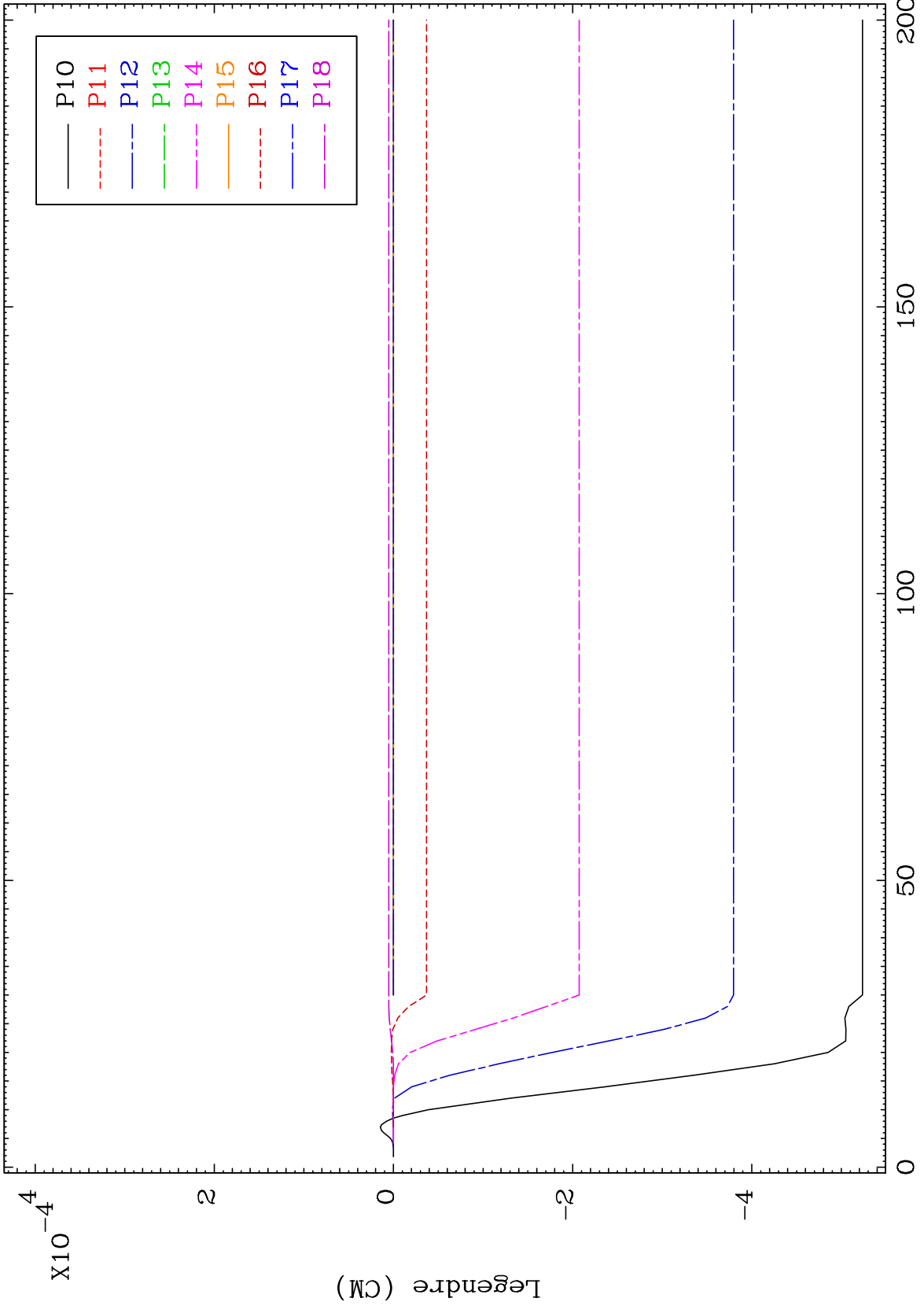
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154

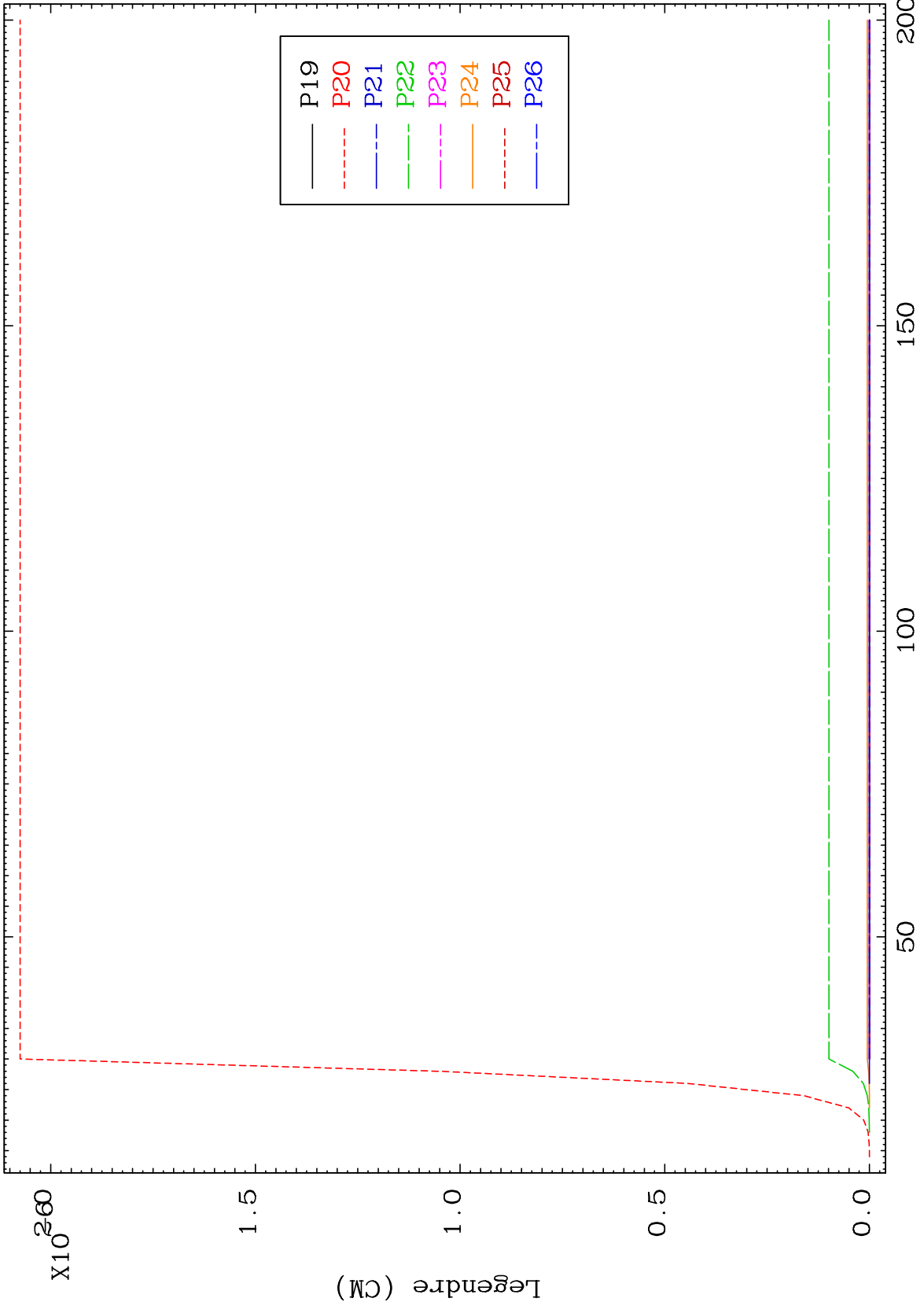


42

Incident Energy (MeV)

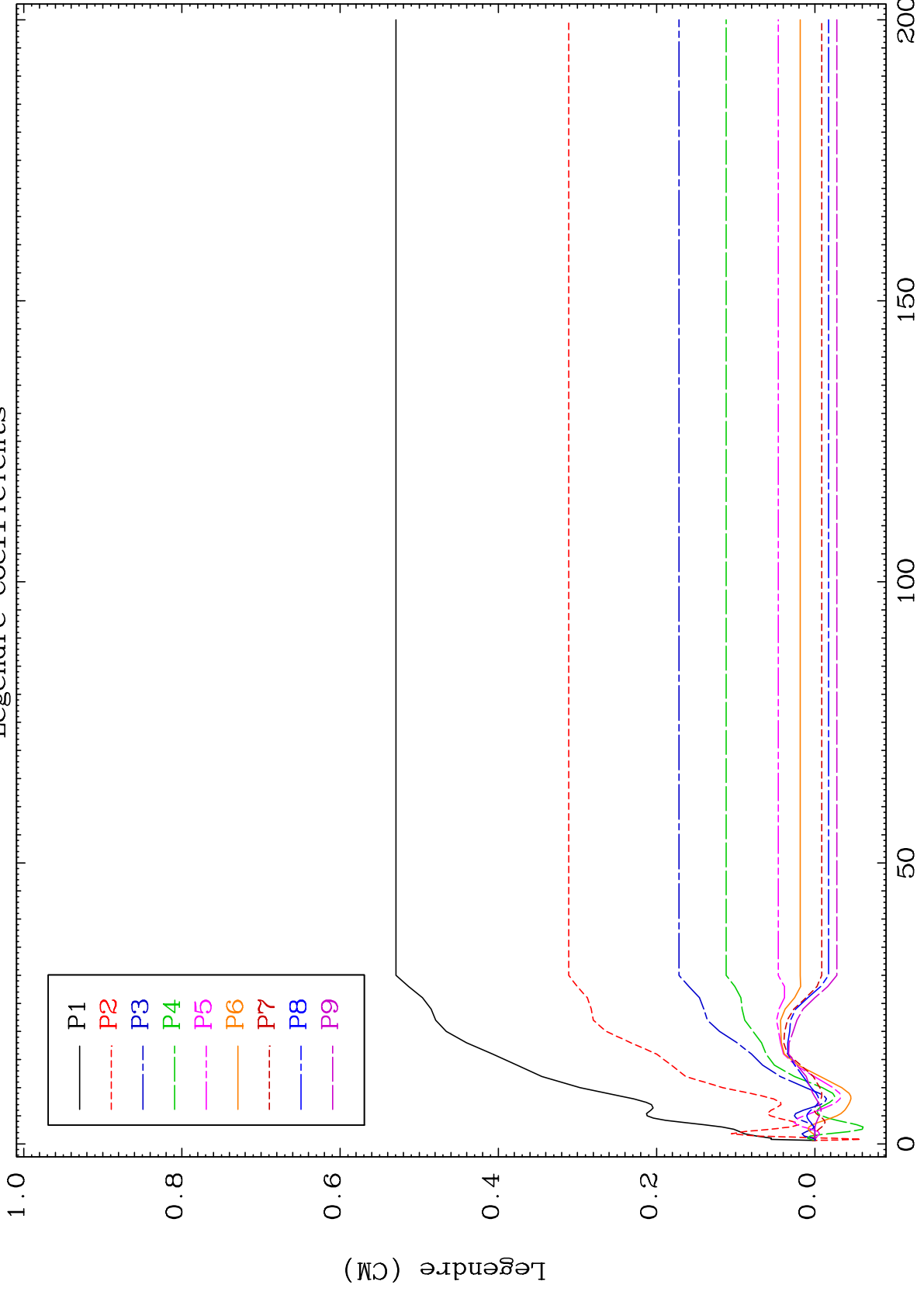
71-Lu-154

MAT 7062 MT= 57 (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

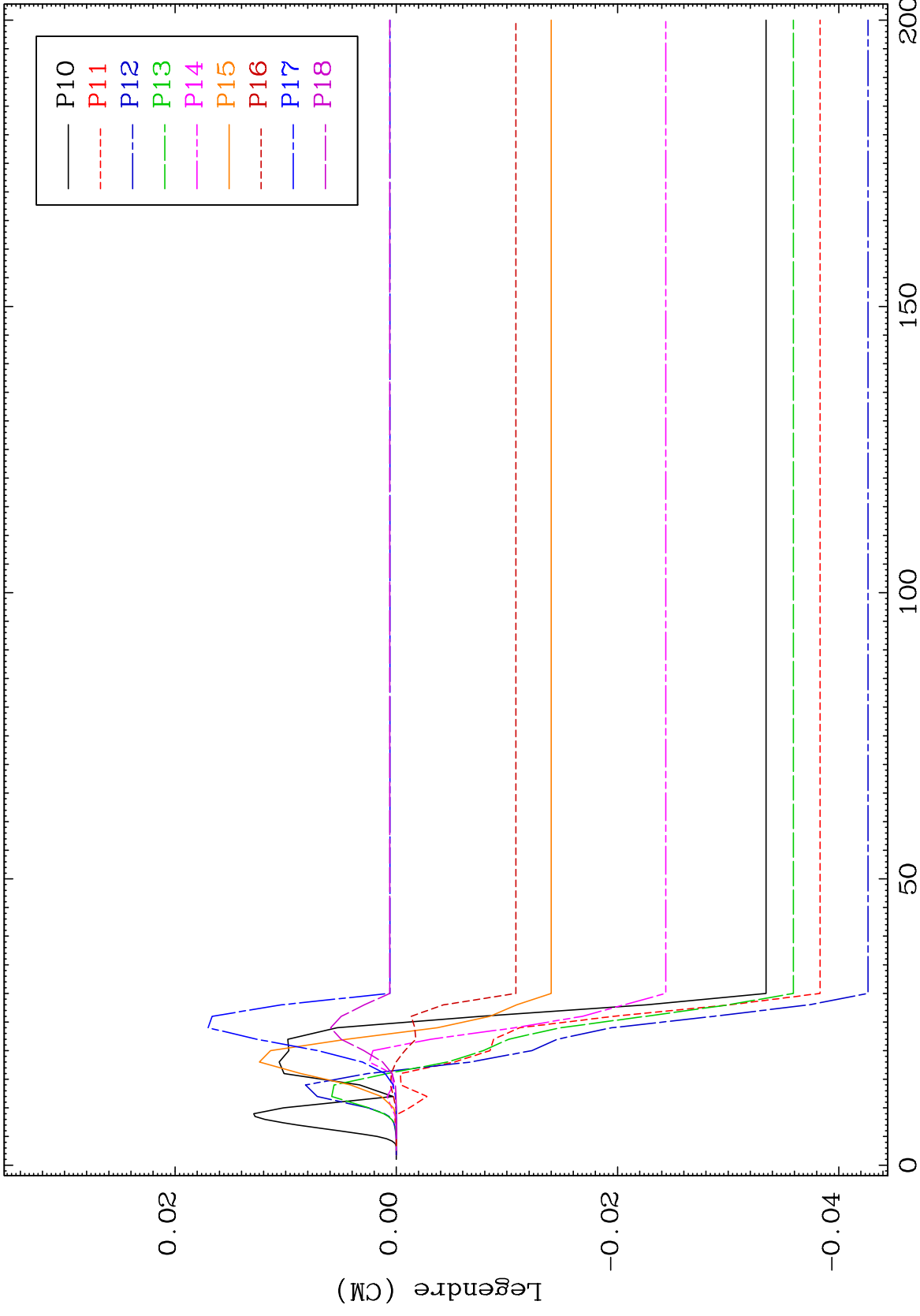


44 71-Lu-154

MAT 7062

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

71-Lu-154



45

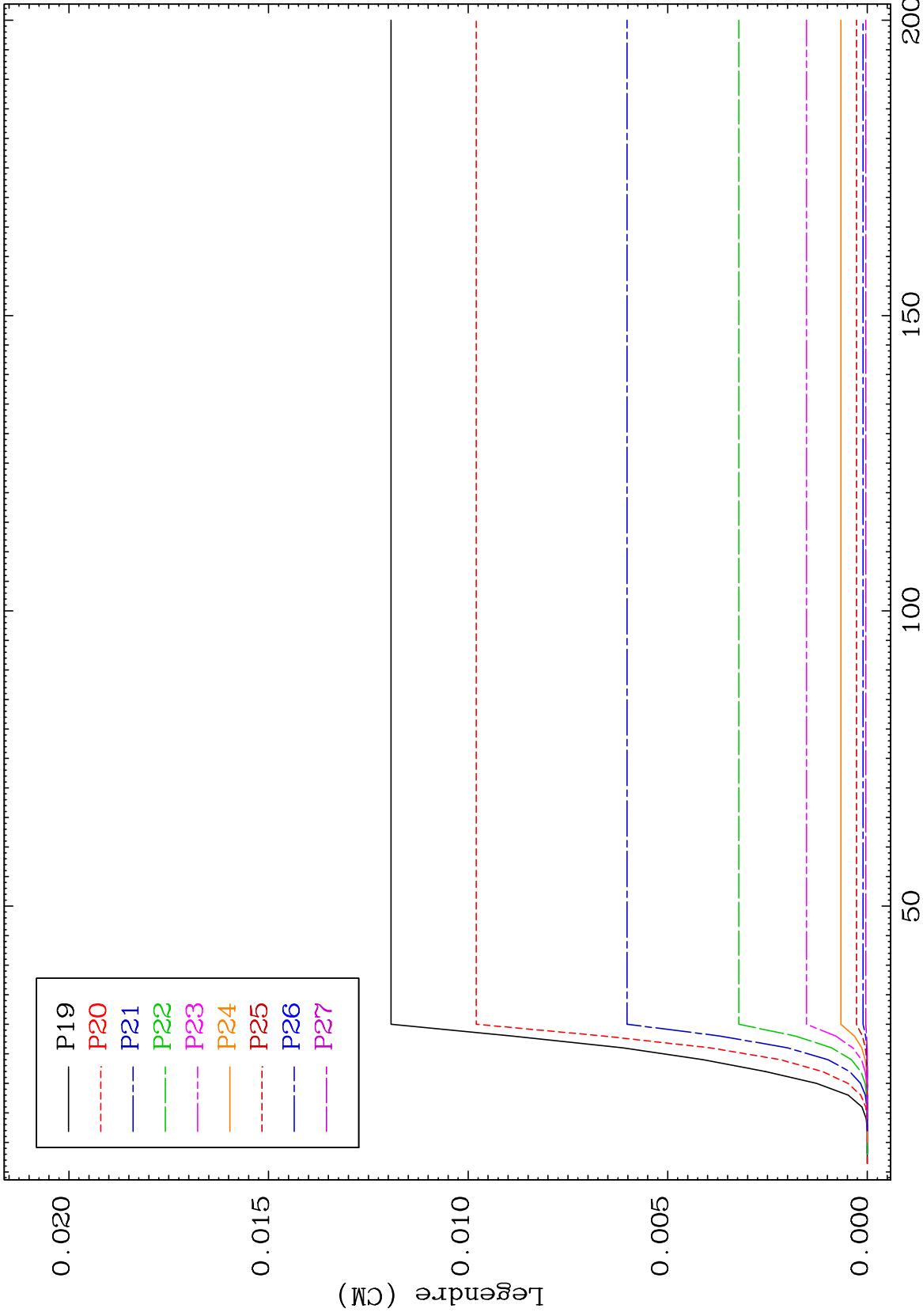
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



46

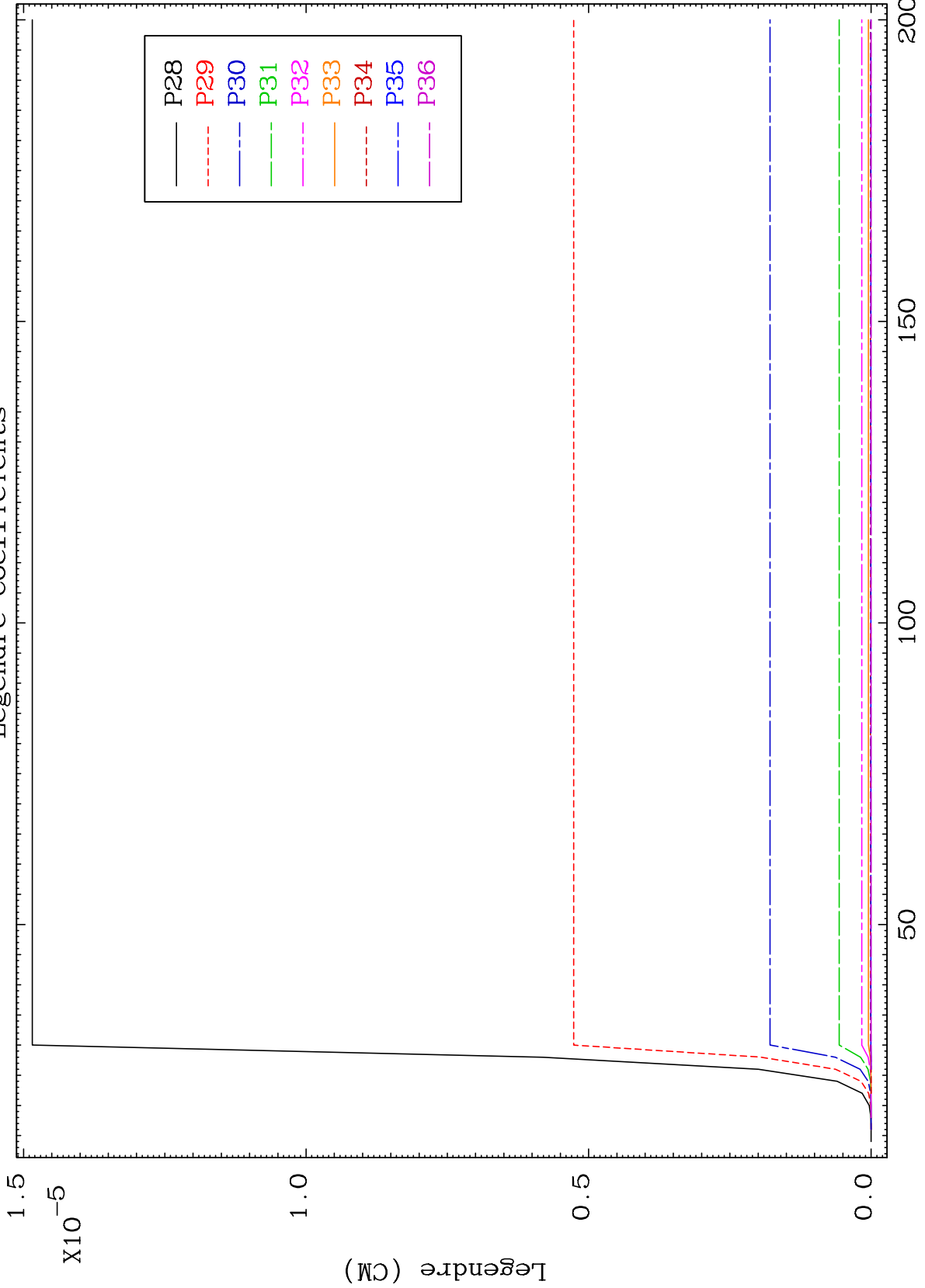
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



47

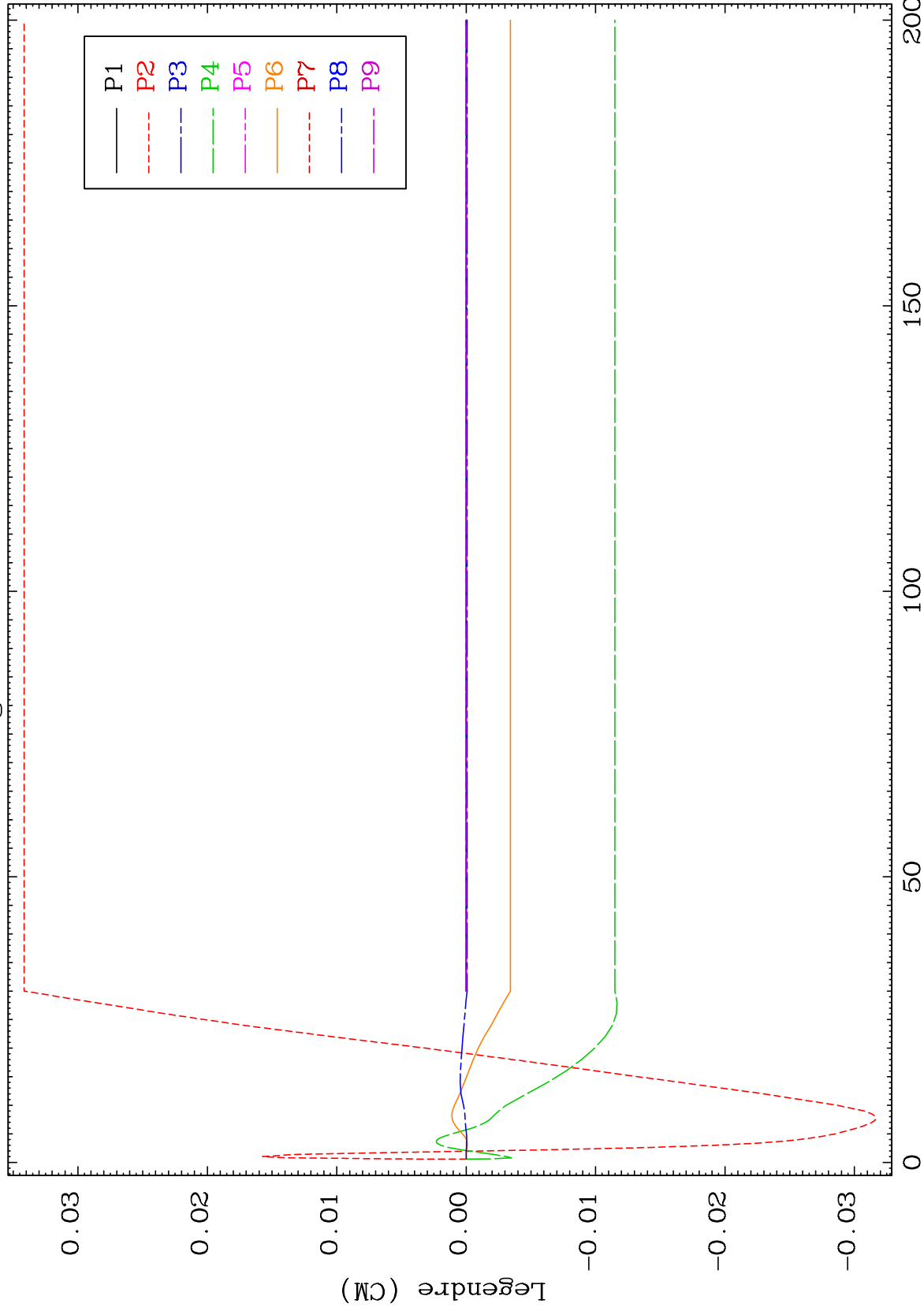
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



48

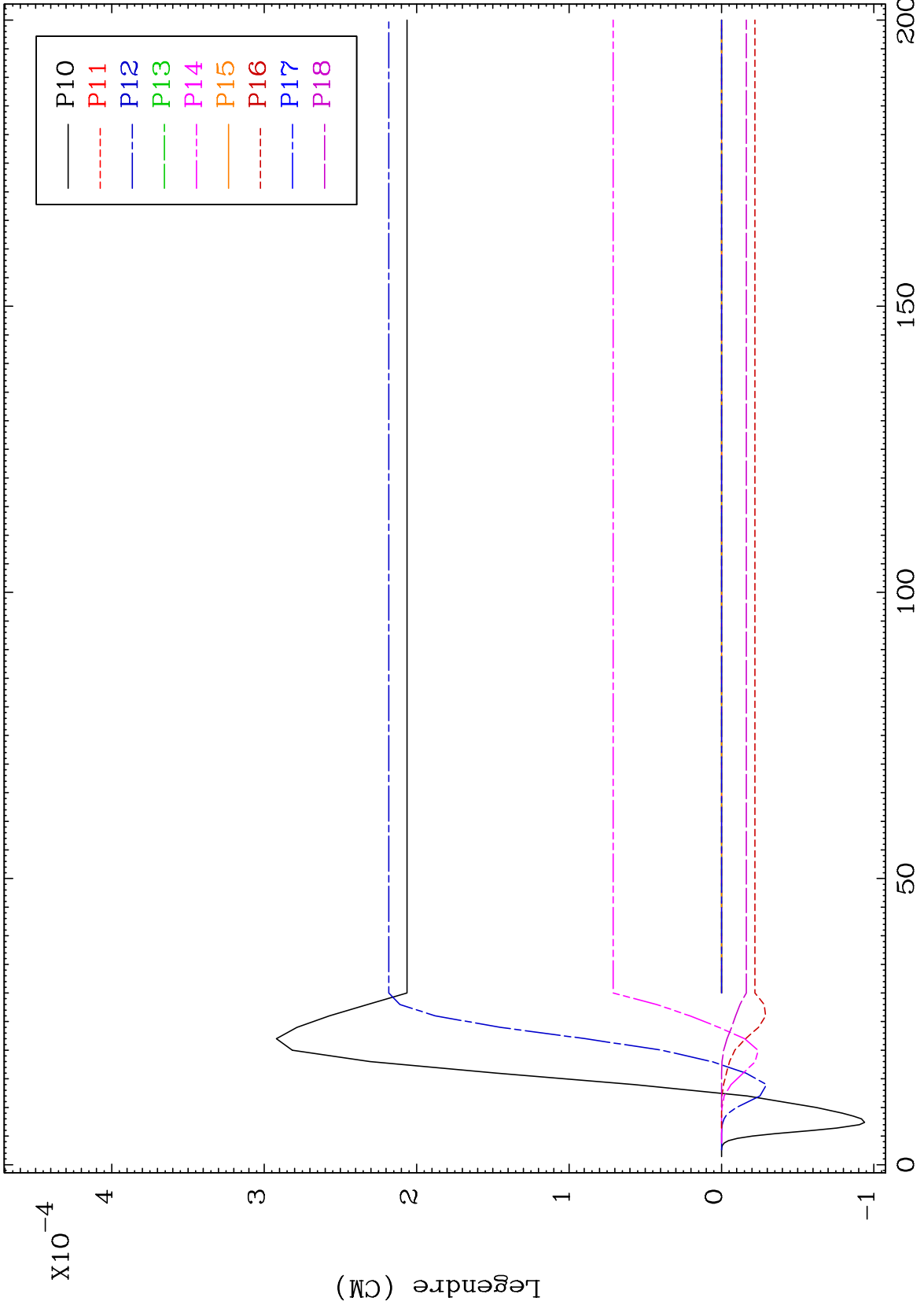
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154

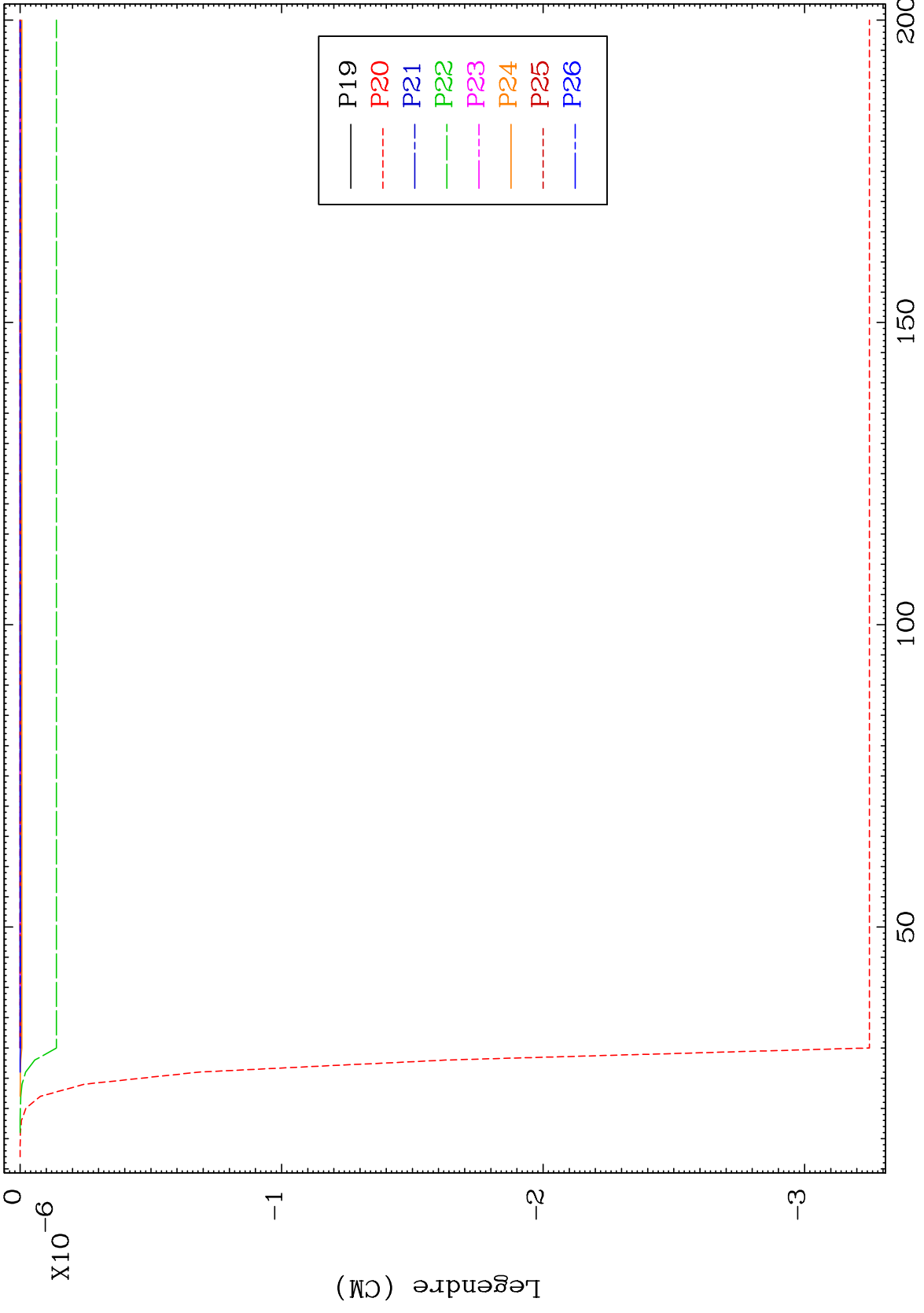


49

Incident Energy (MeV)

71-Lu-154

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

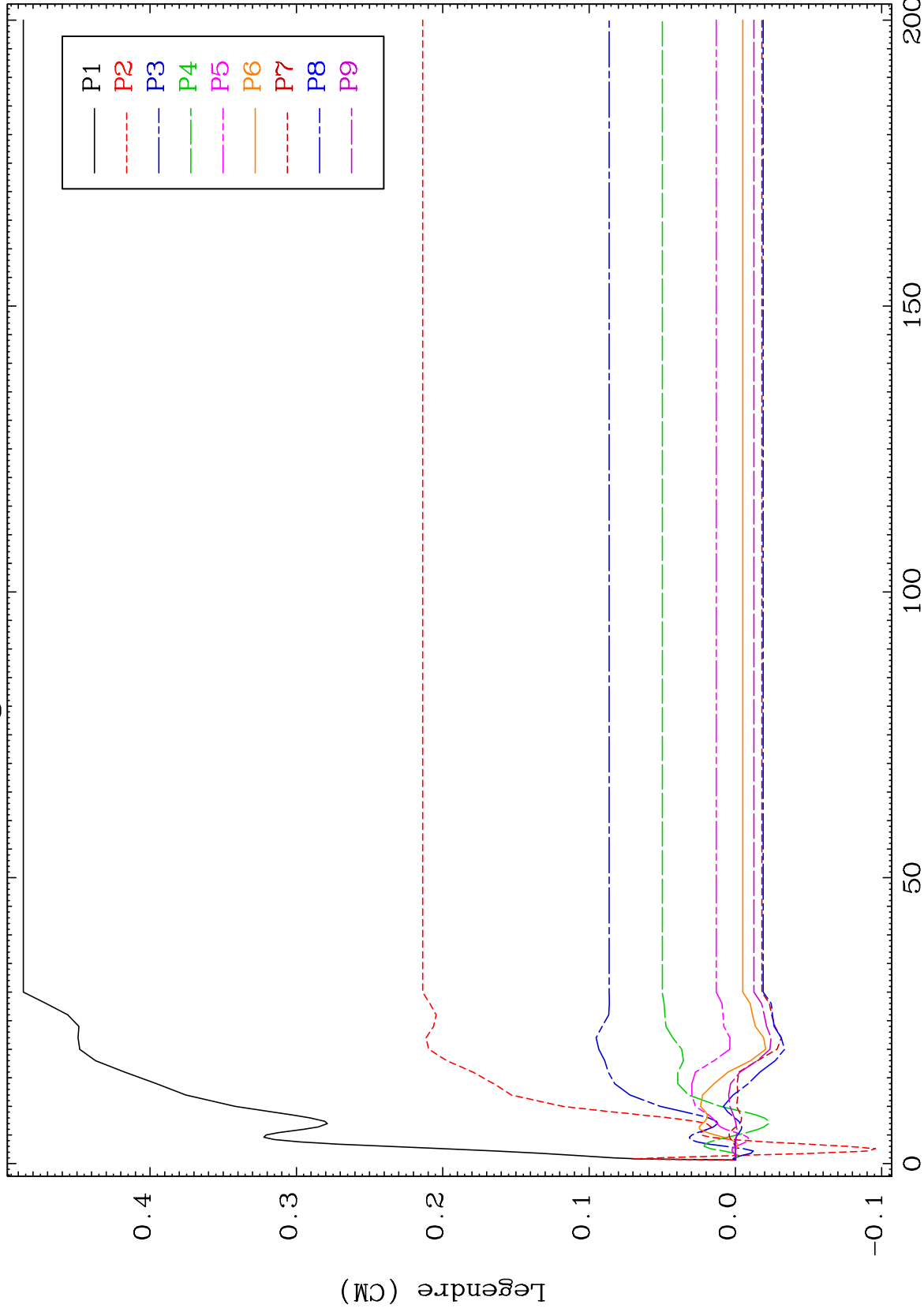


50 Incident Energy (MeV) 71-Lu-154

MAT 7062

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

71-Lu-154



51

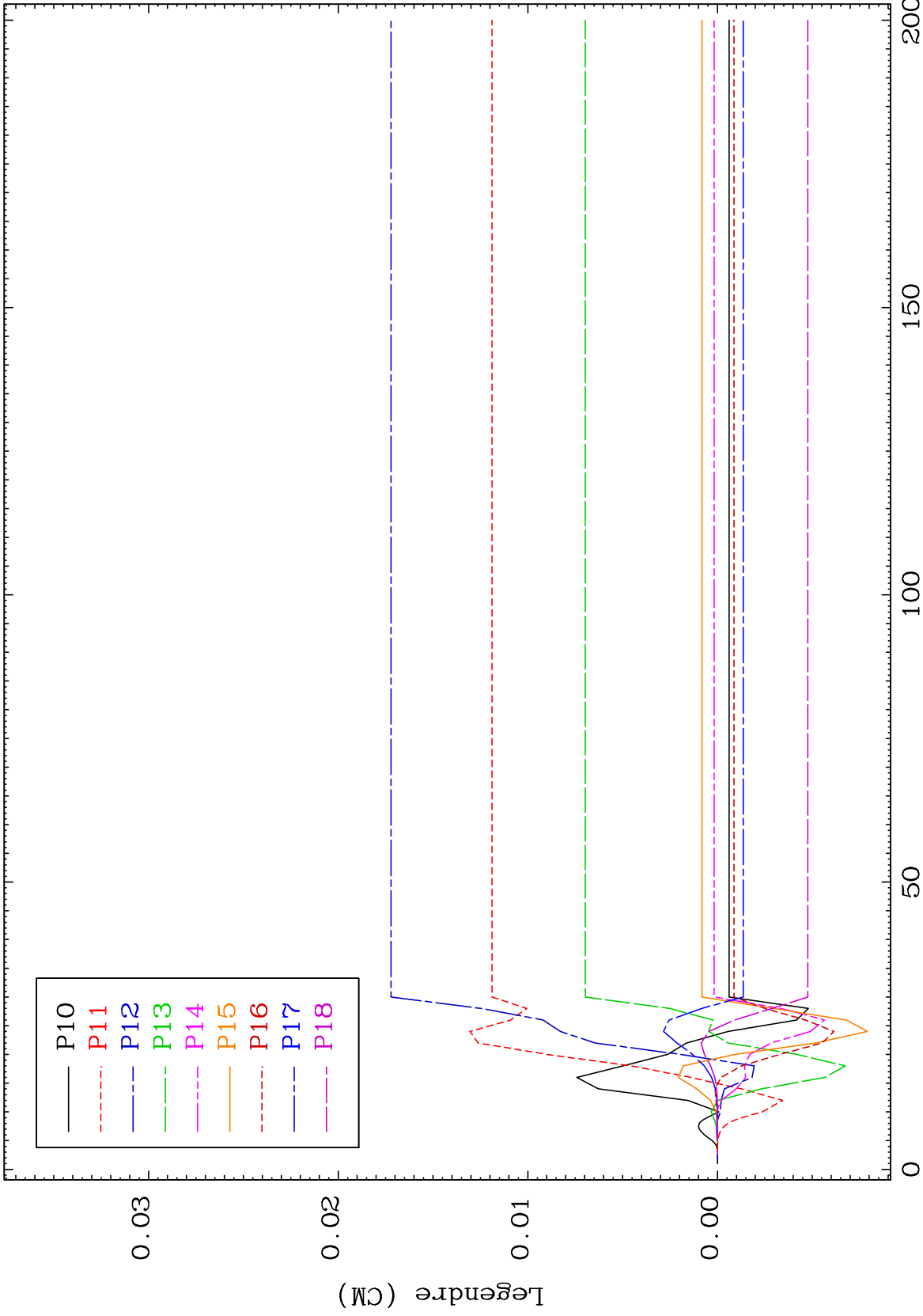
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



52

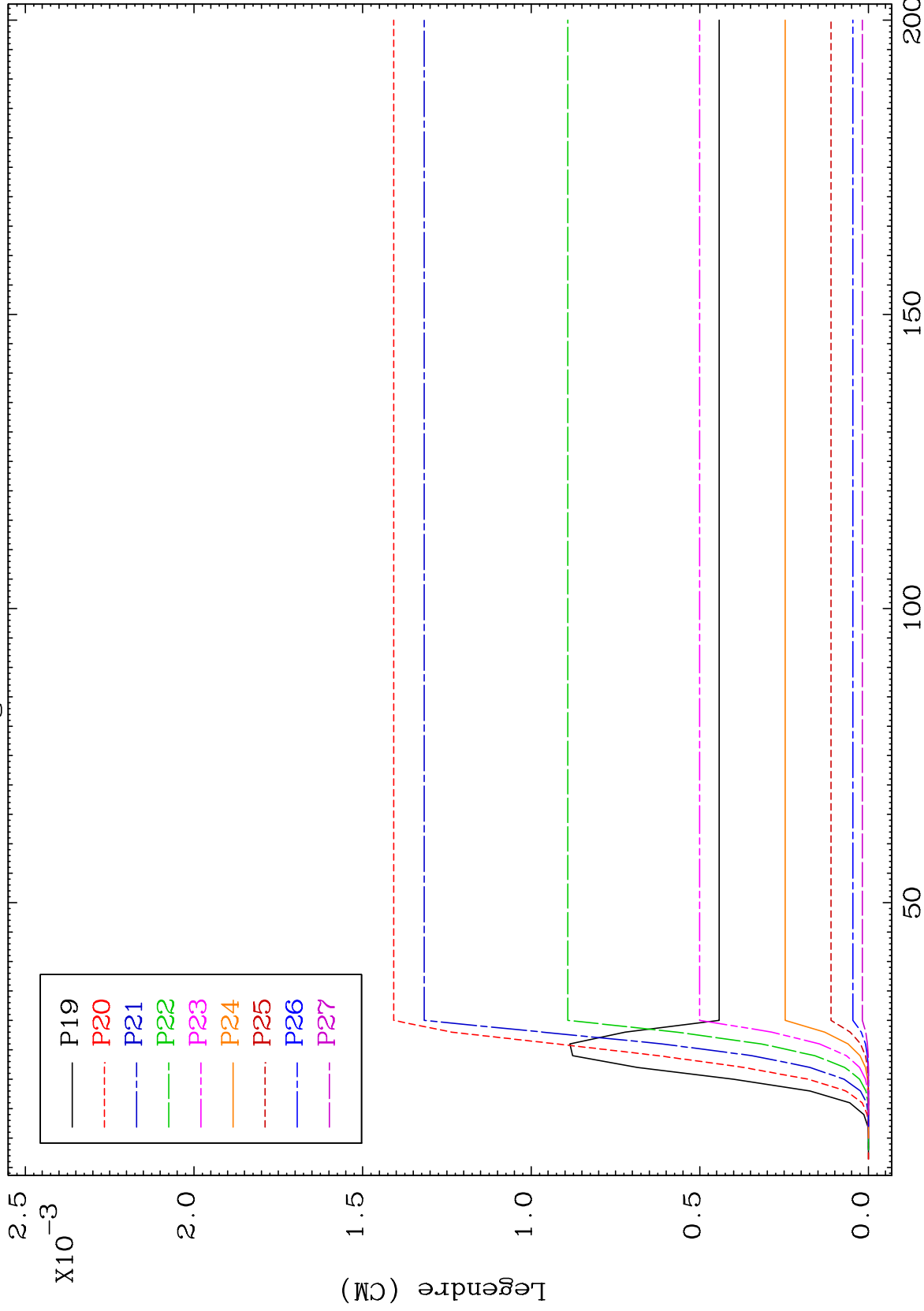
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



53

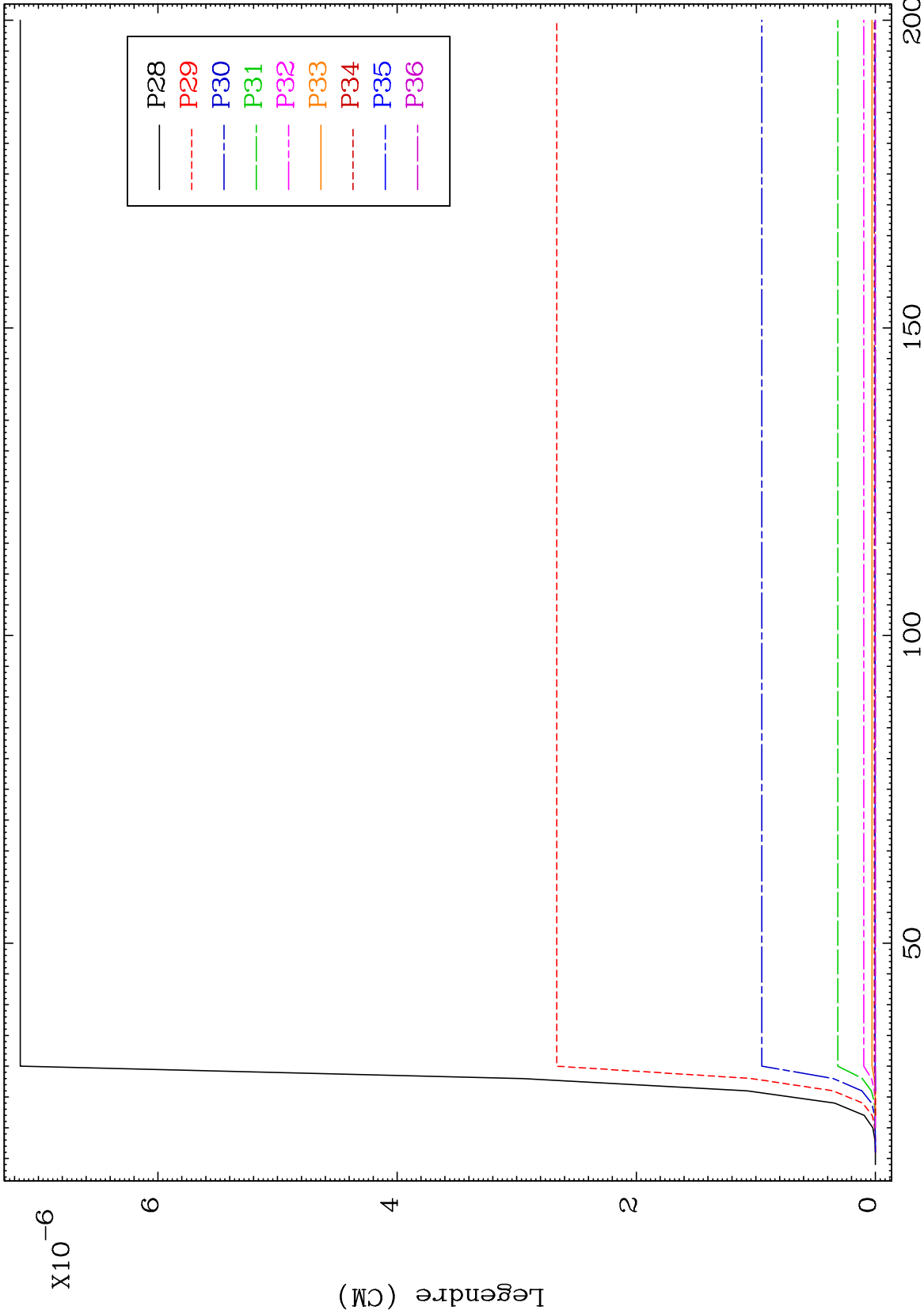
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



54

71-Lu-154

200

150

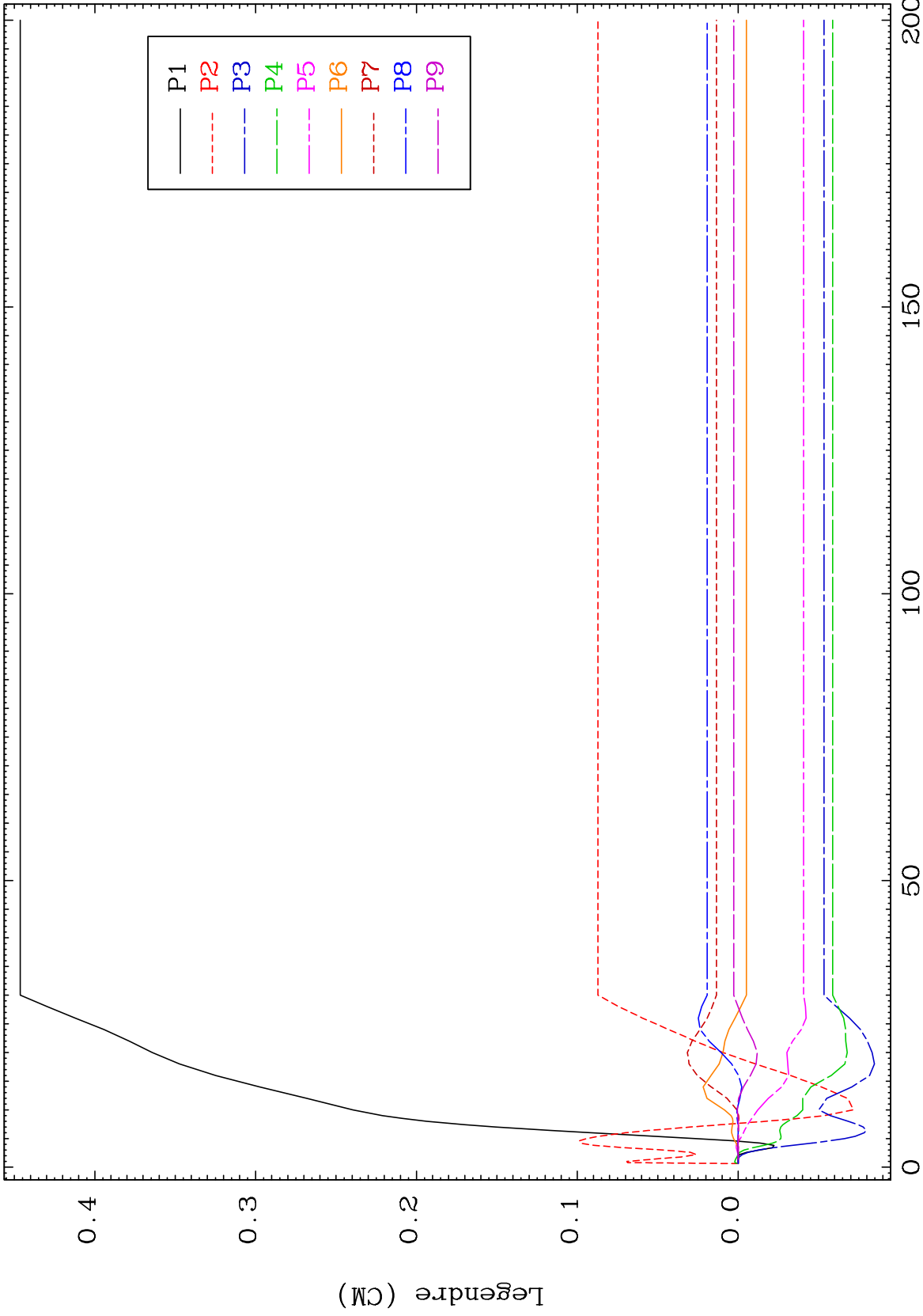
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50

MAT 7062

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

71-Lu-154



55

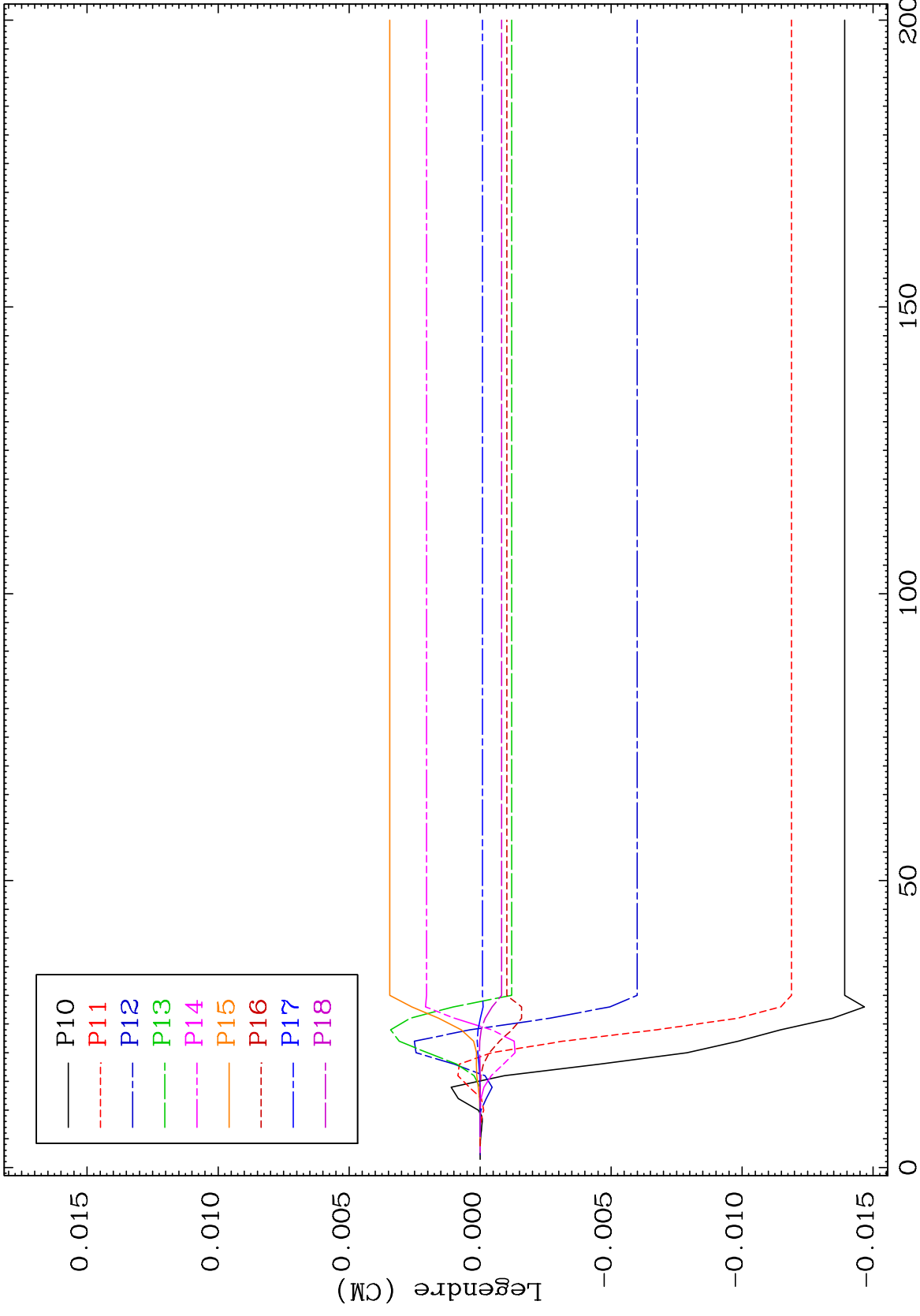
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



56

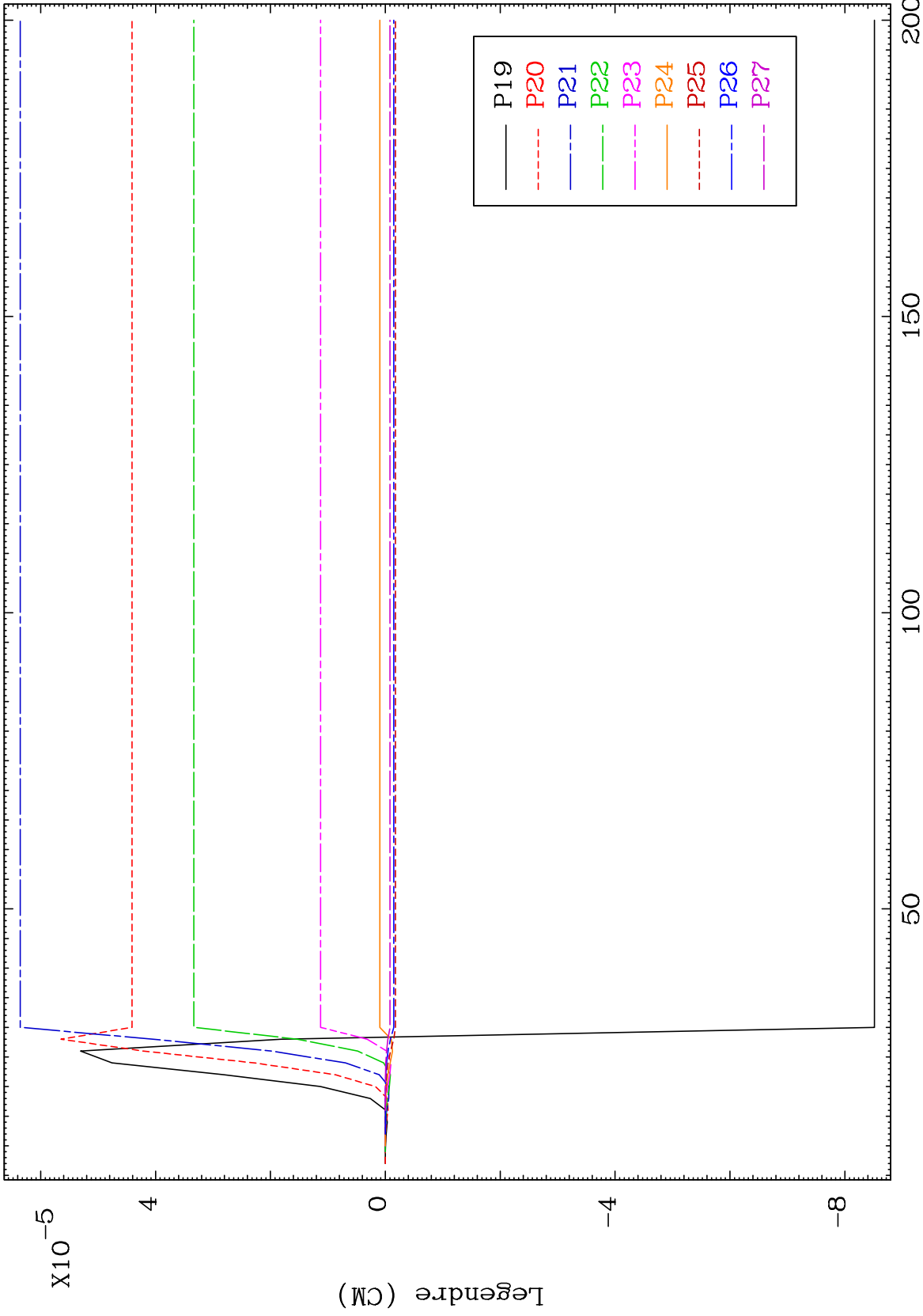
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



57

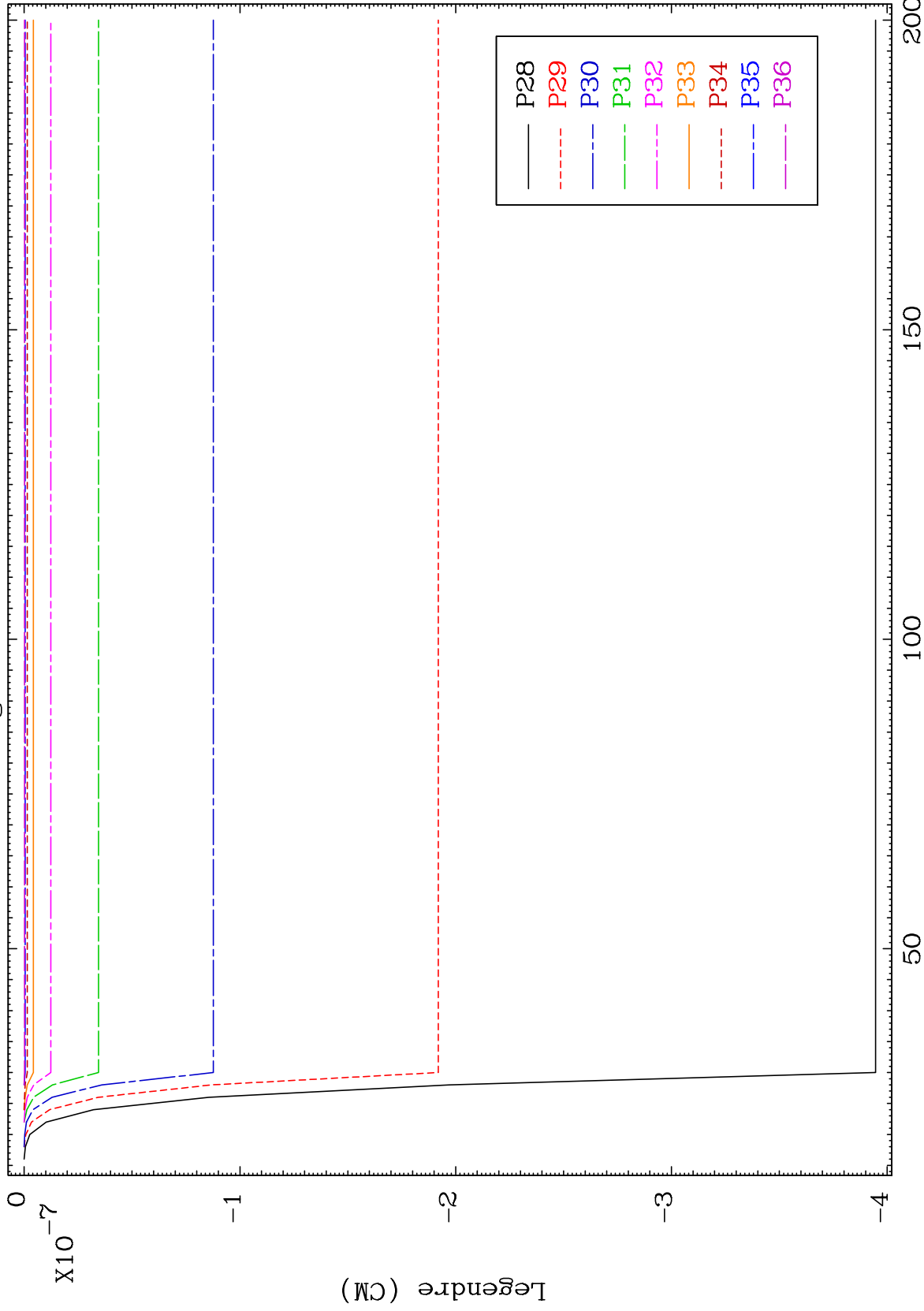
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



58

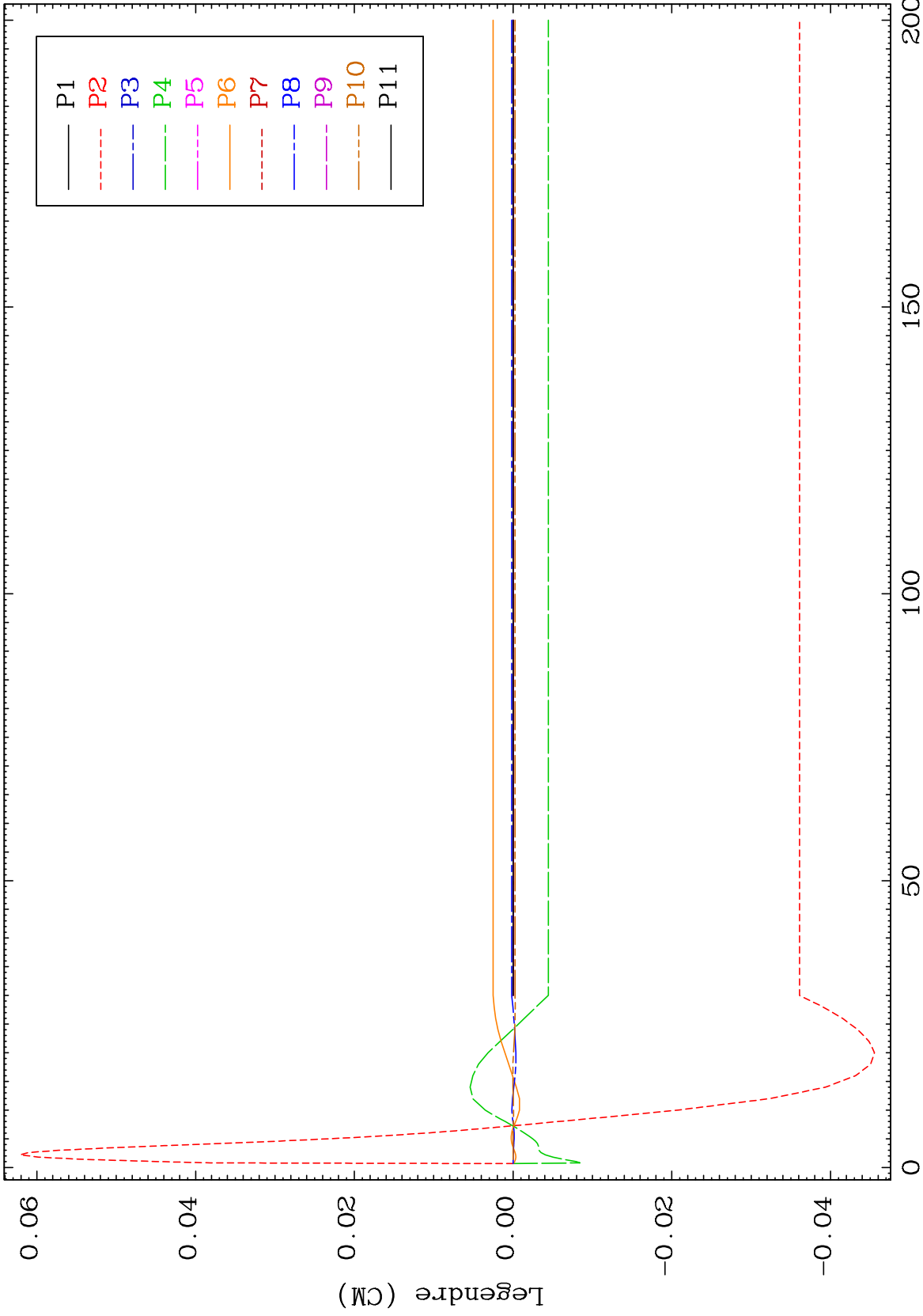
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



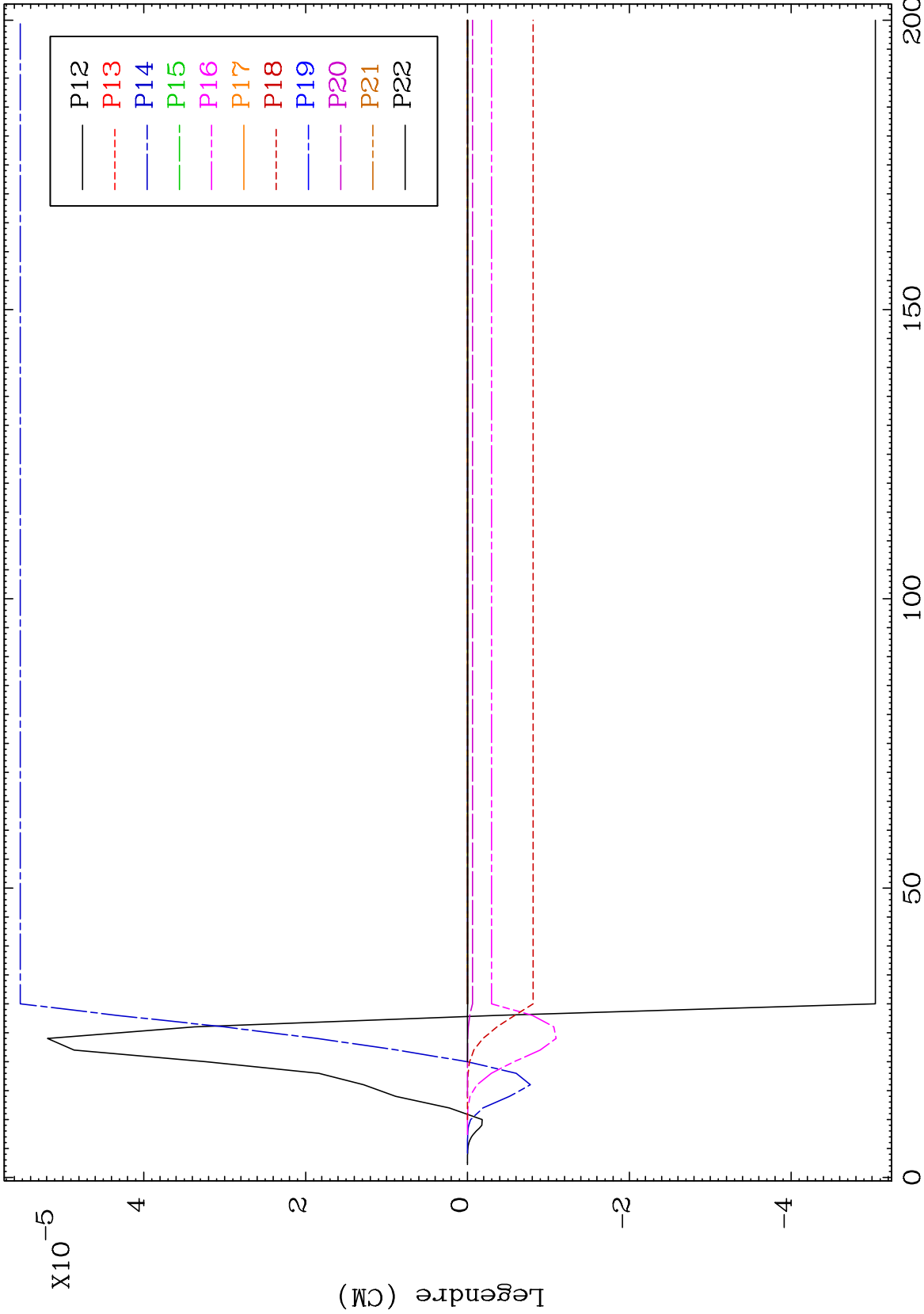
59

71-Lu-154

MAT 7062

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

71-Lu-154



60

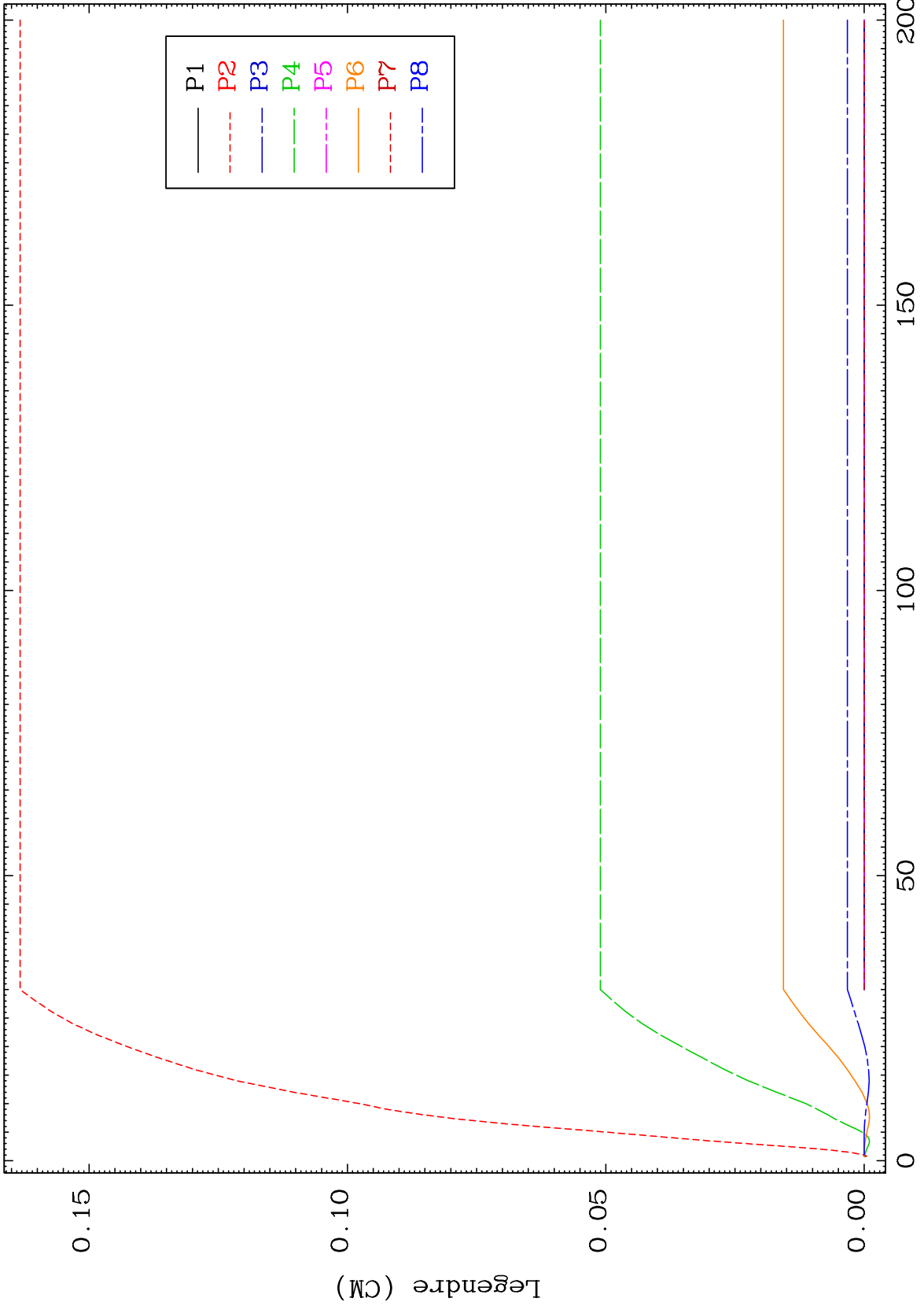
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



61

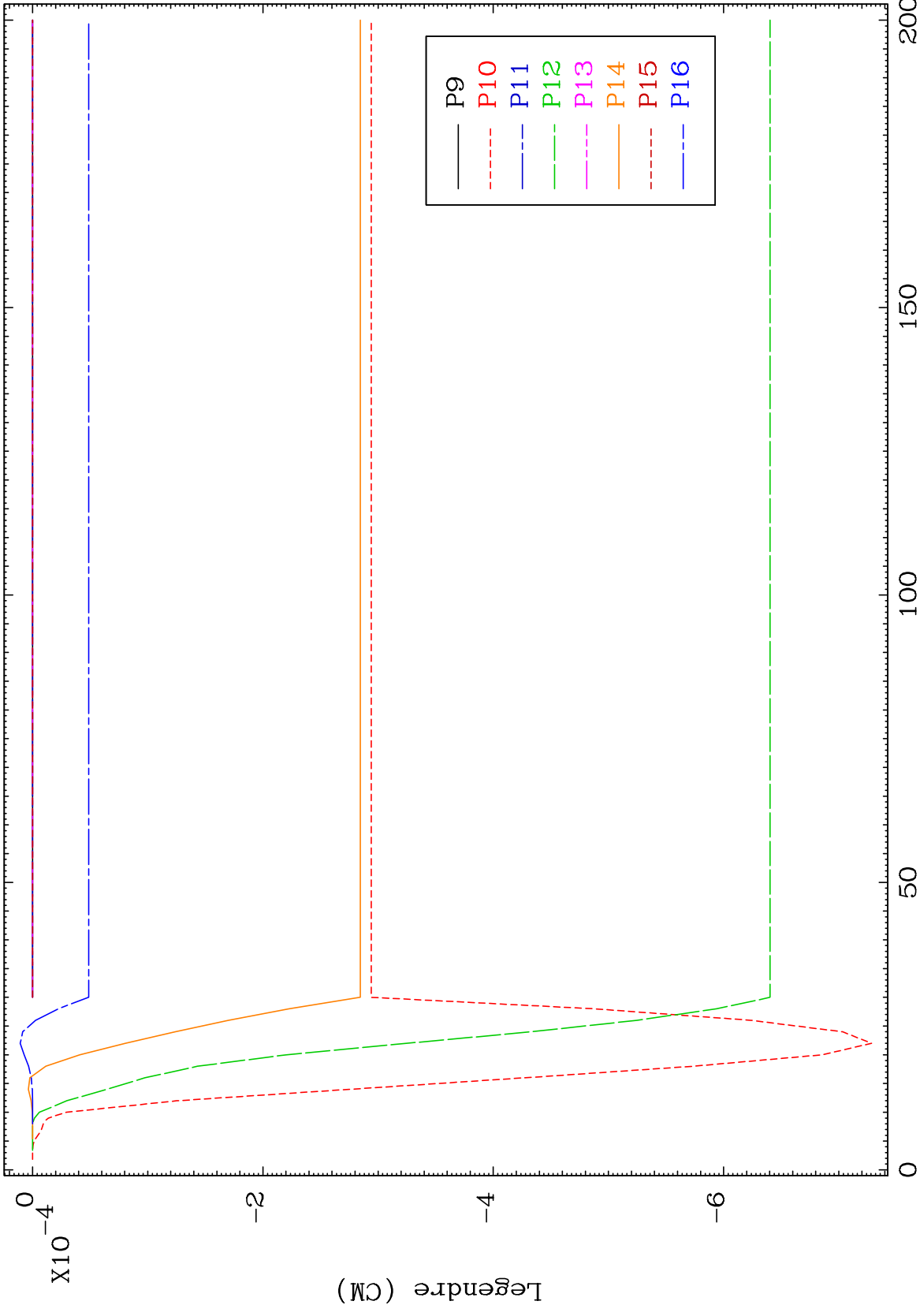
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154

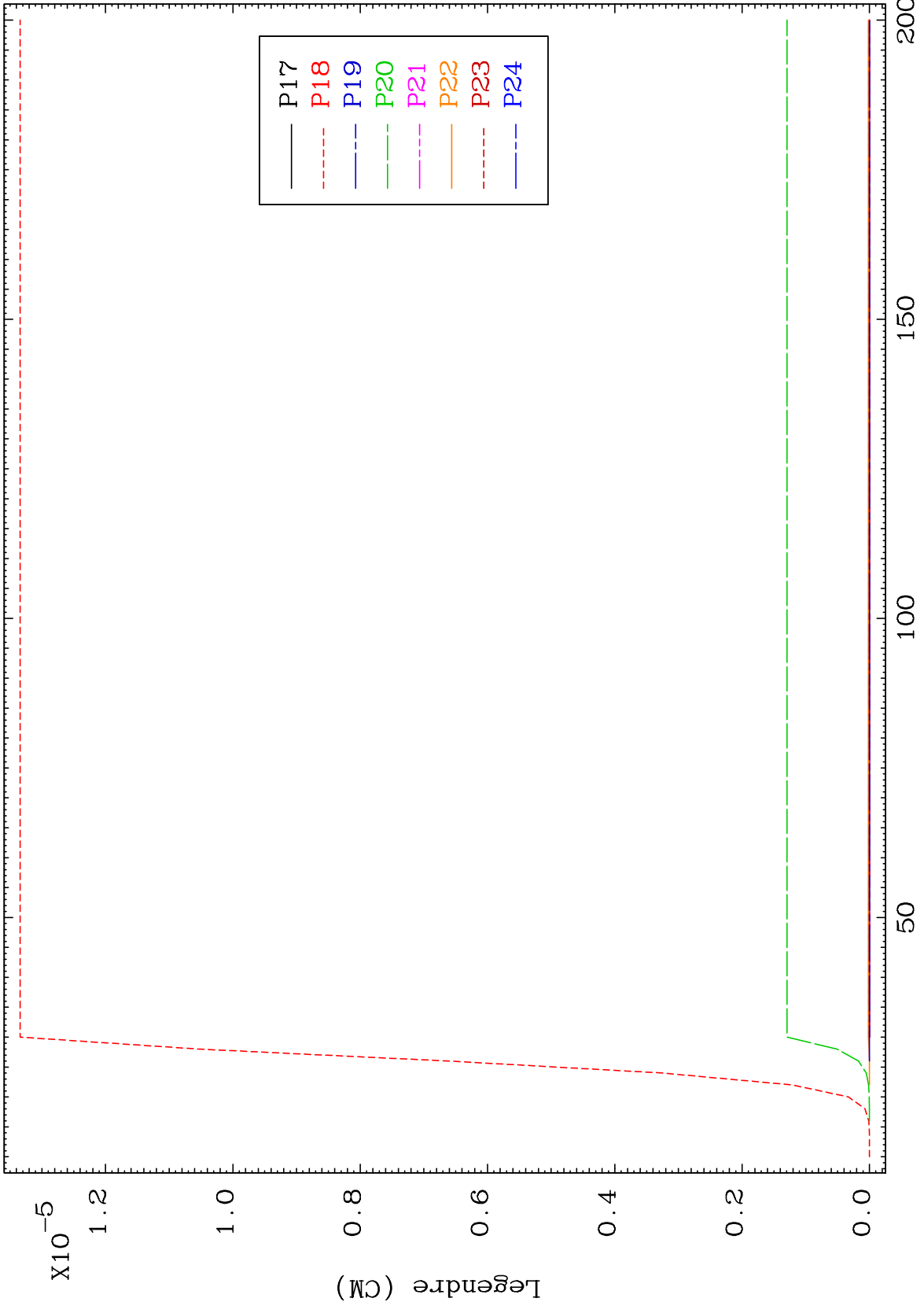


62

Incident Energy (MeV)

71-Lu-154

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

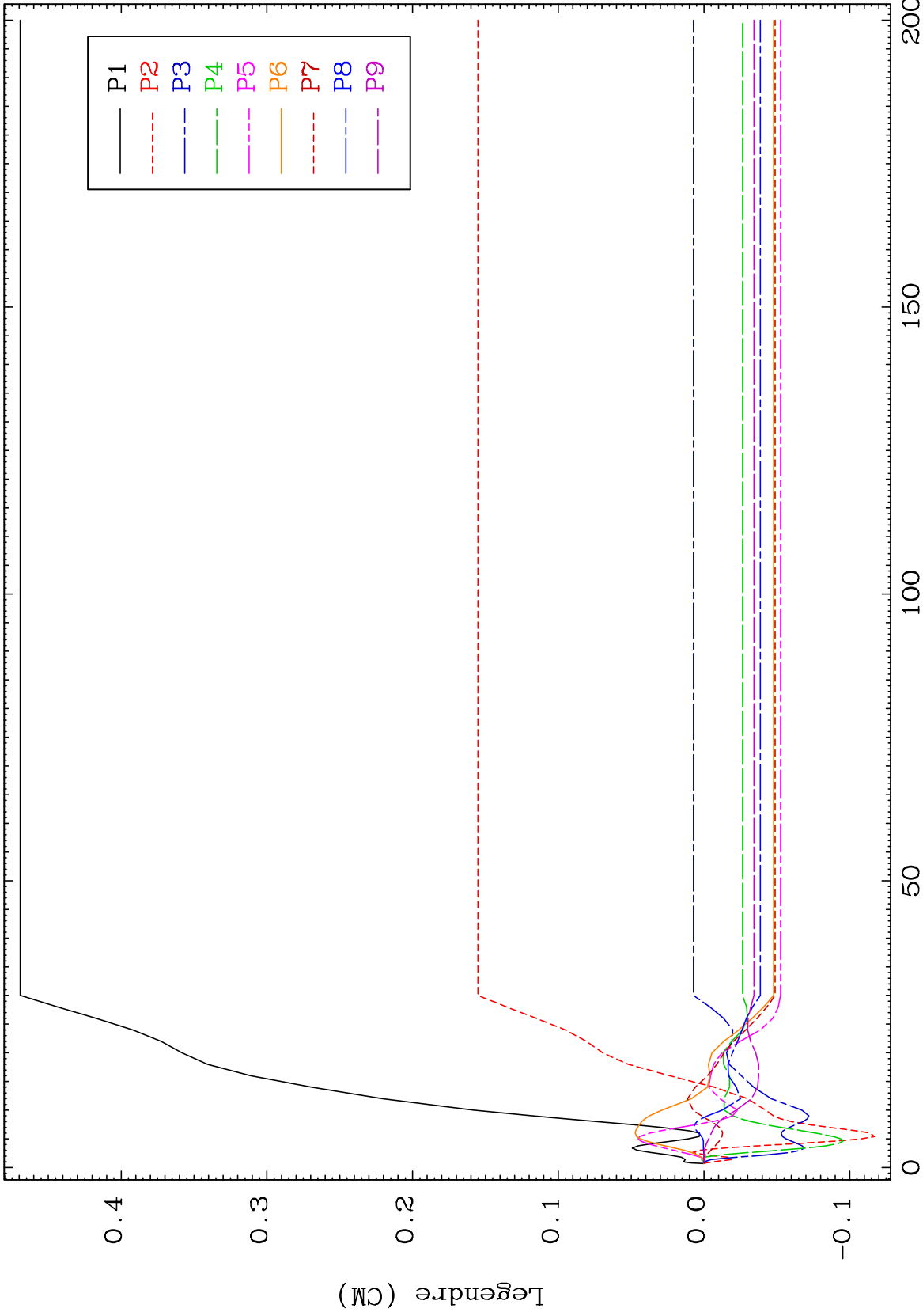


63 71-Lu-154

MAT 7062

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

71-Lu-154



64

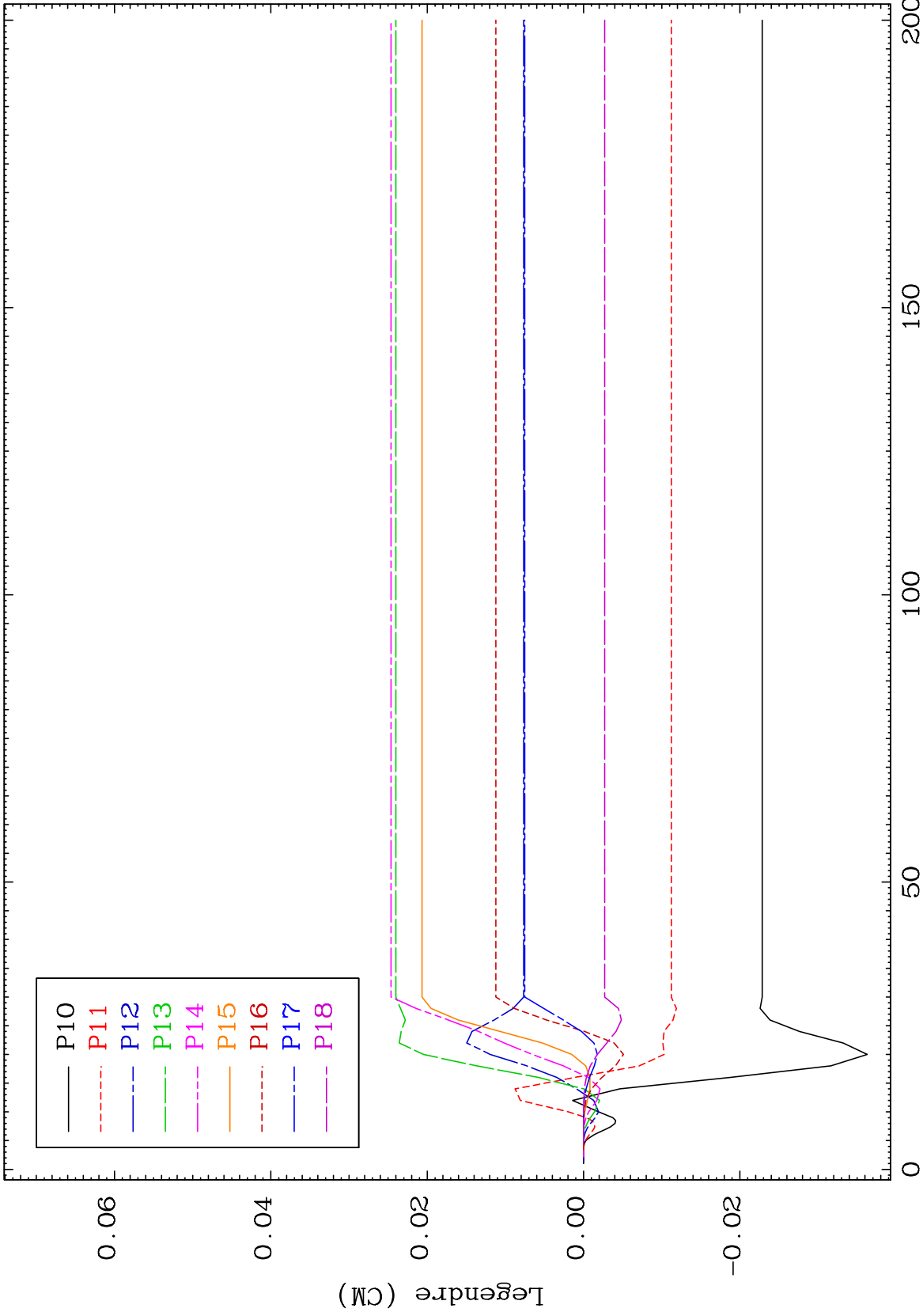
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

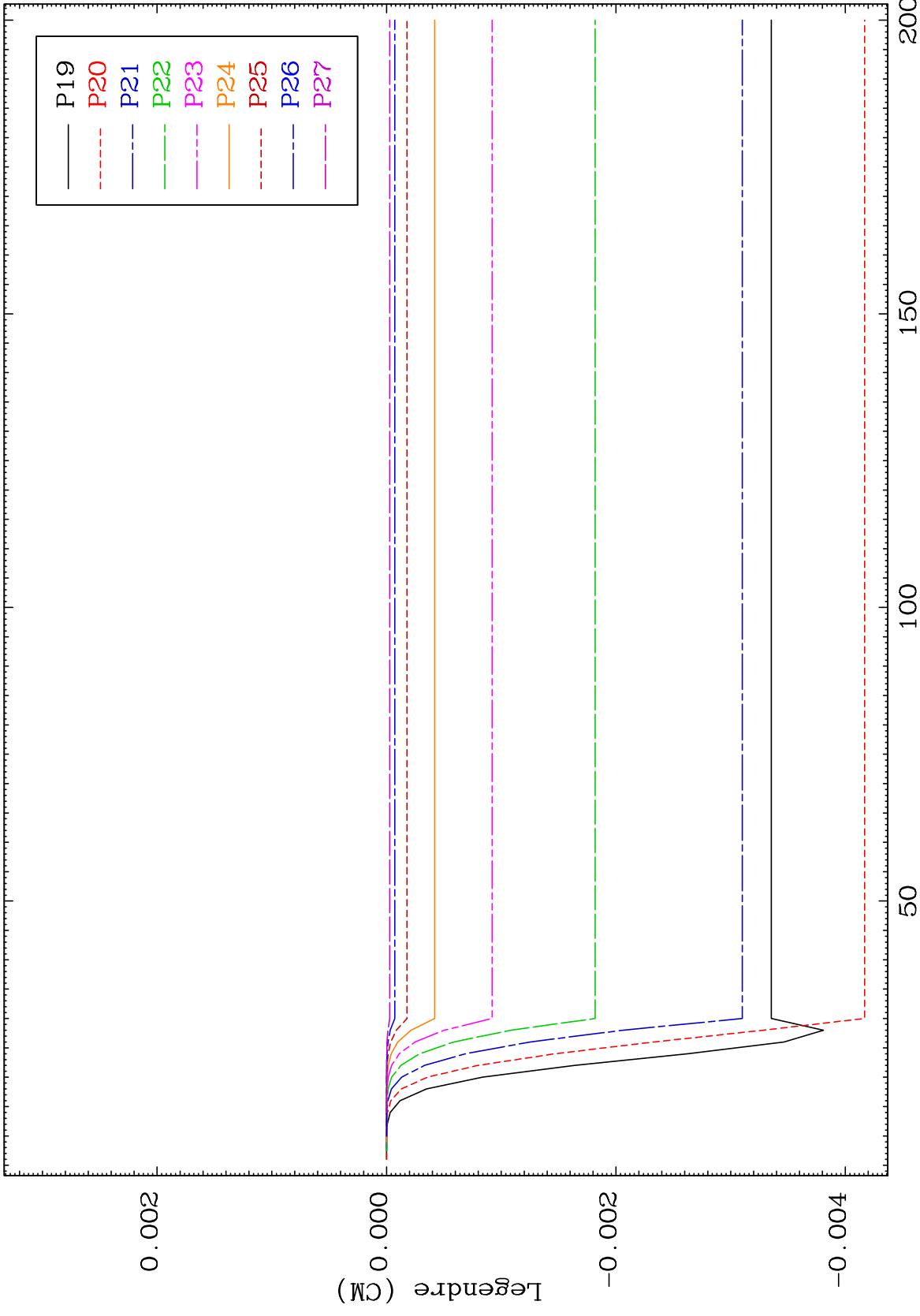
71-Lu-154



MAT 7062

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

71-Lu-154



66

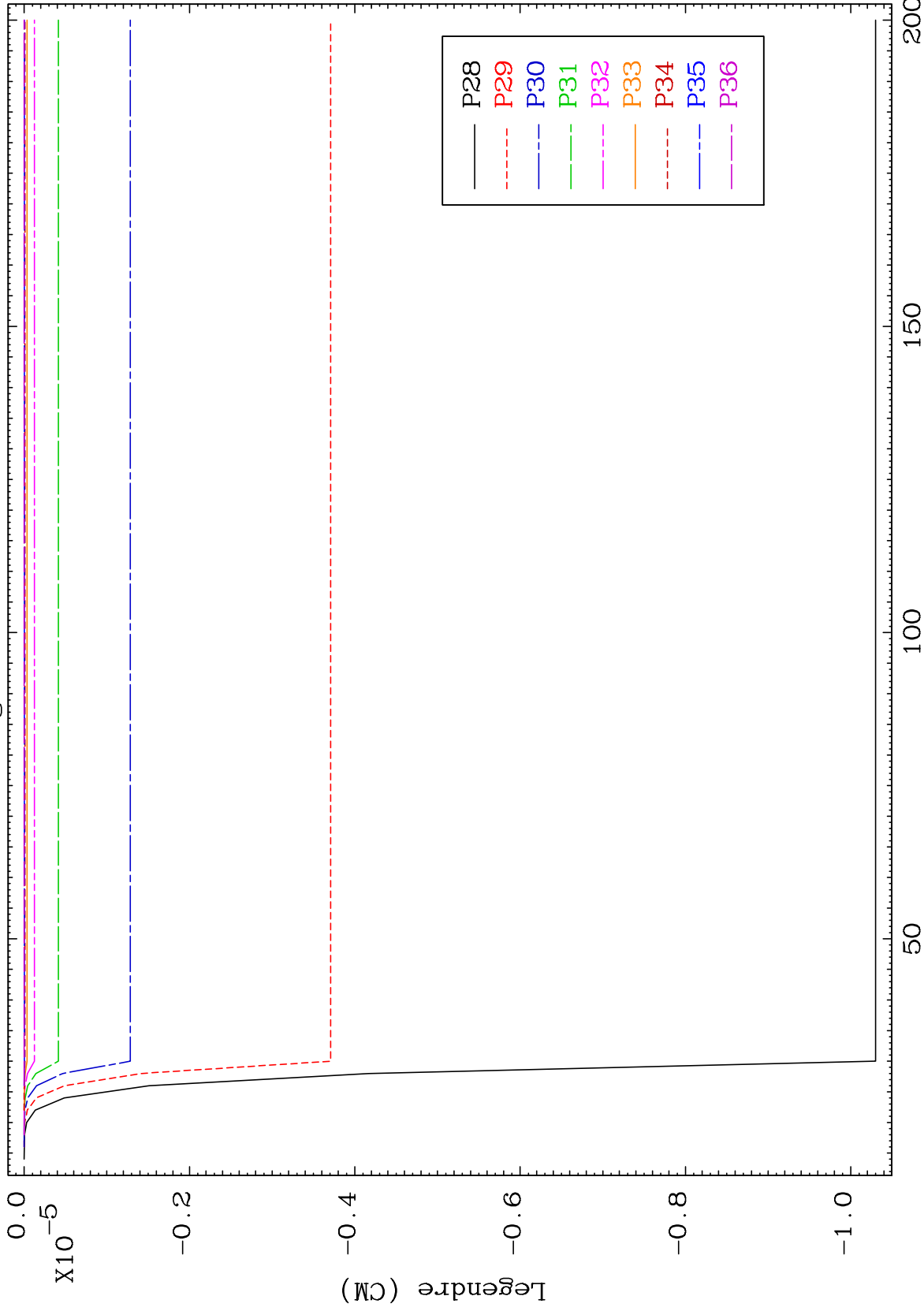
Incident Energy (MeV)

71-Lu-154

MAT 7062

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

71-Lu-154



67

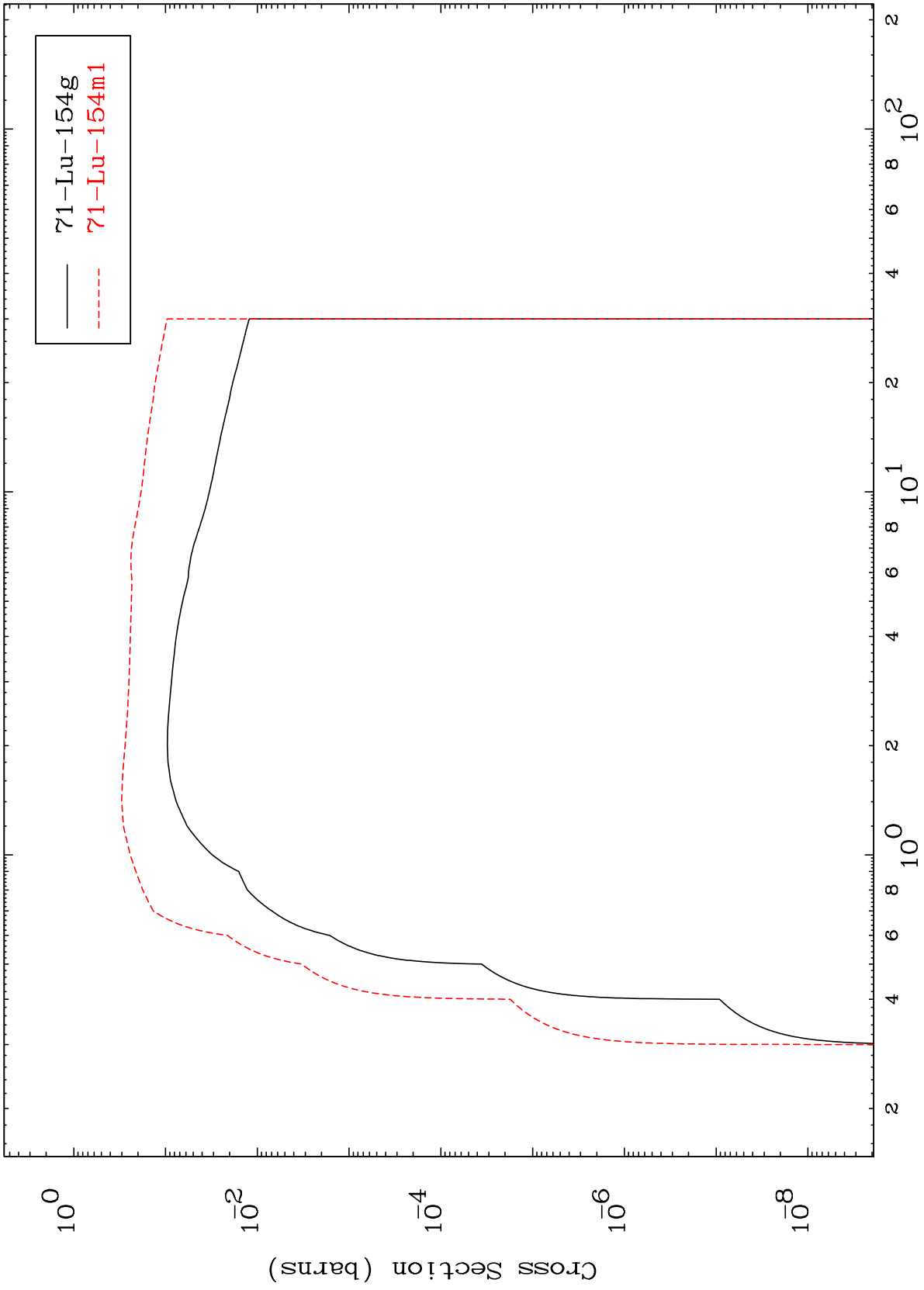
Incident Energy (MeV)

71-Lu-154

MAT 7062

71-Lu-154

Inelastic
Radionuclide Production Cross Section



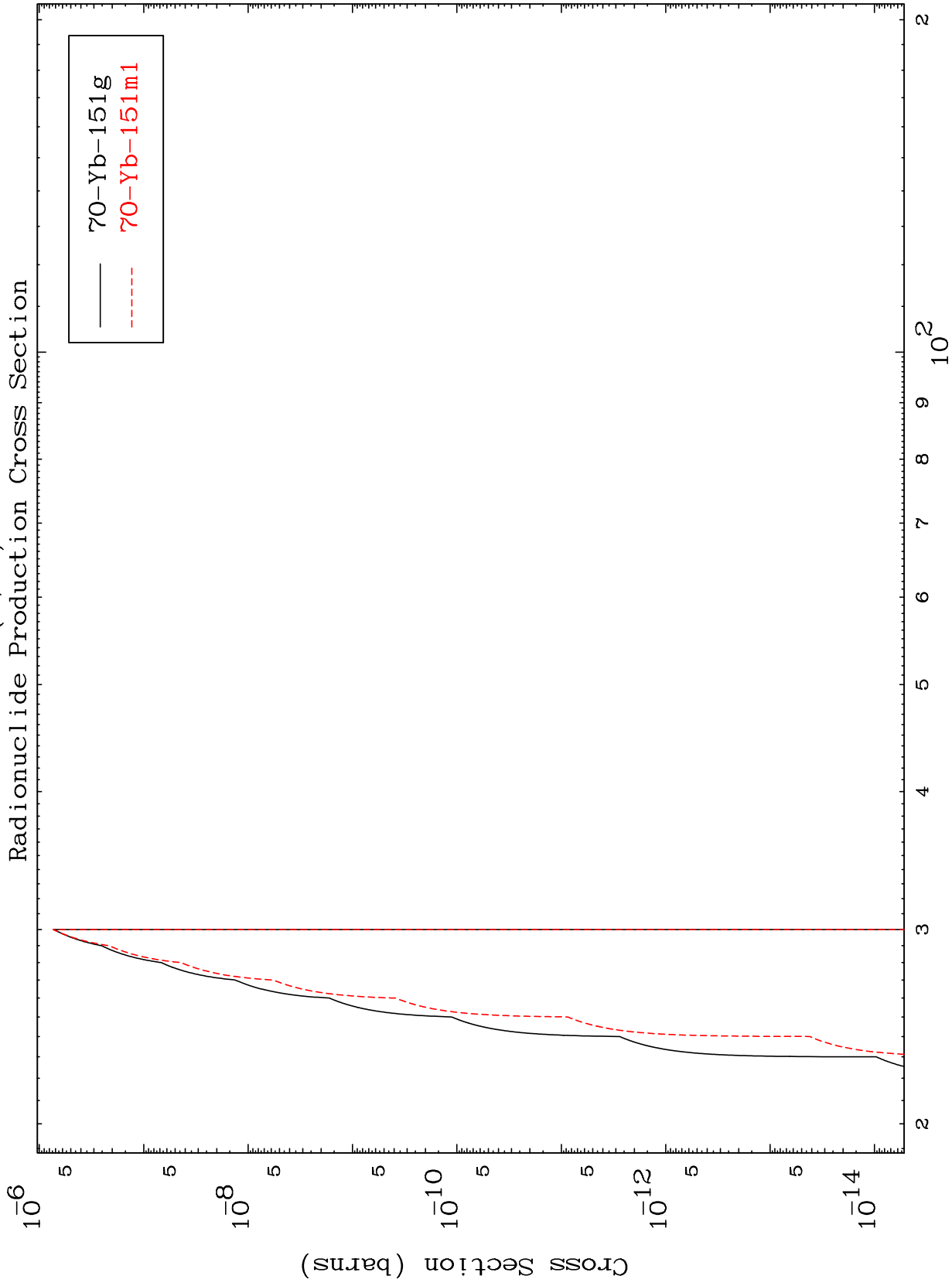
68

71-Lu-154

MAT 7062

(n,2n) d

71-Lu-154



69

Incident Energy (MeV)

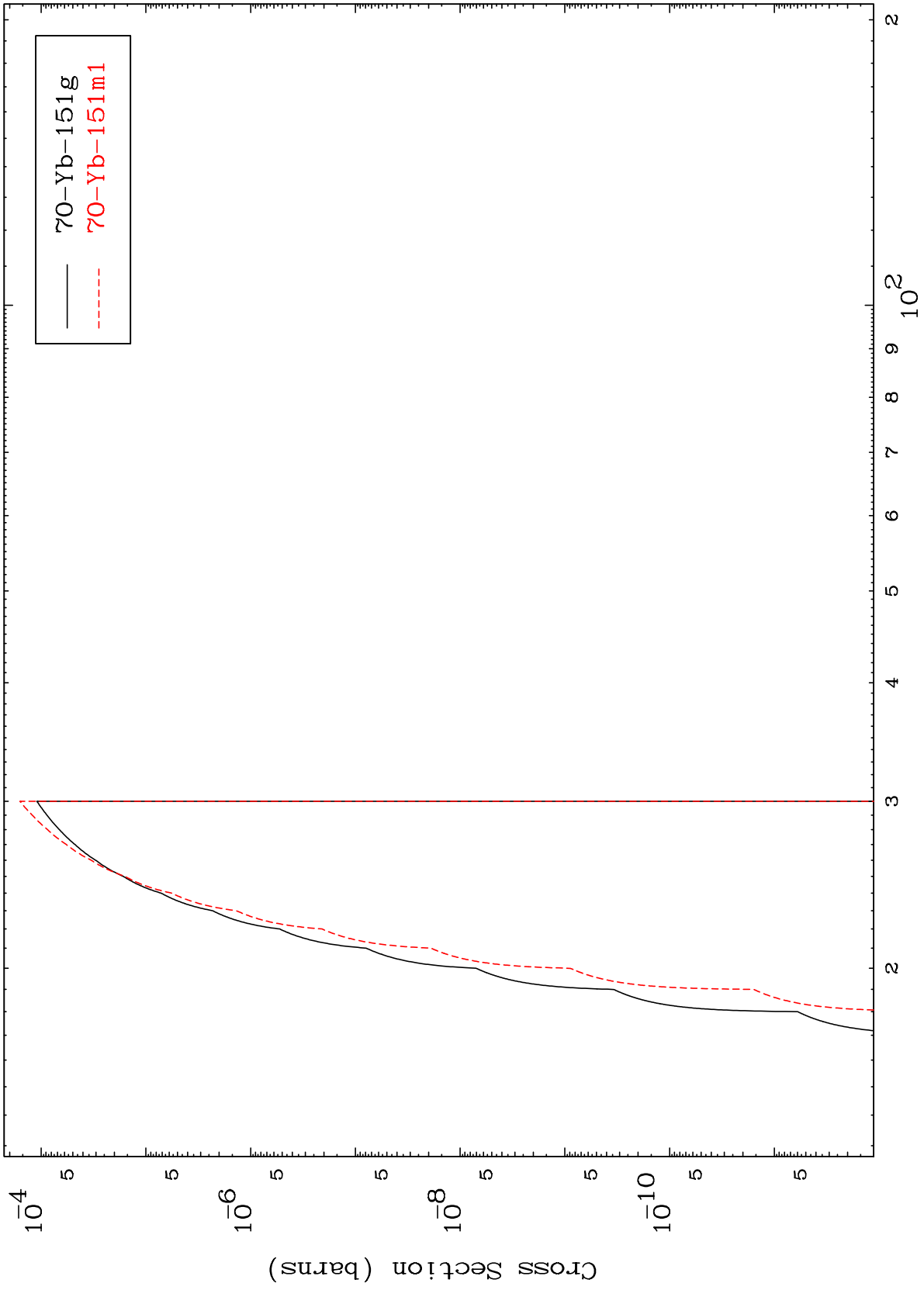
71-Lu-154

MAT 7062

(n,n') t

⁷¹Lu-154

Radionuclide Production Cross Section



70

Incident Energy (MeV)

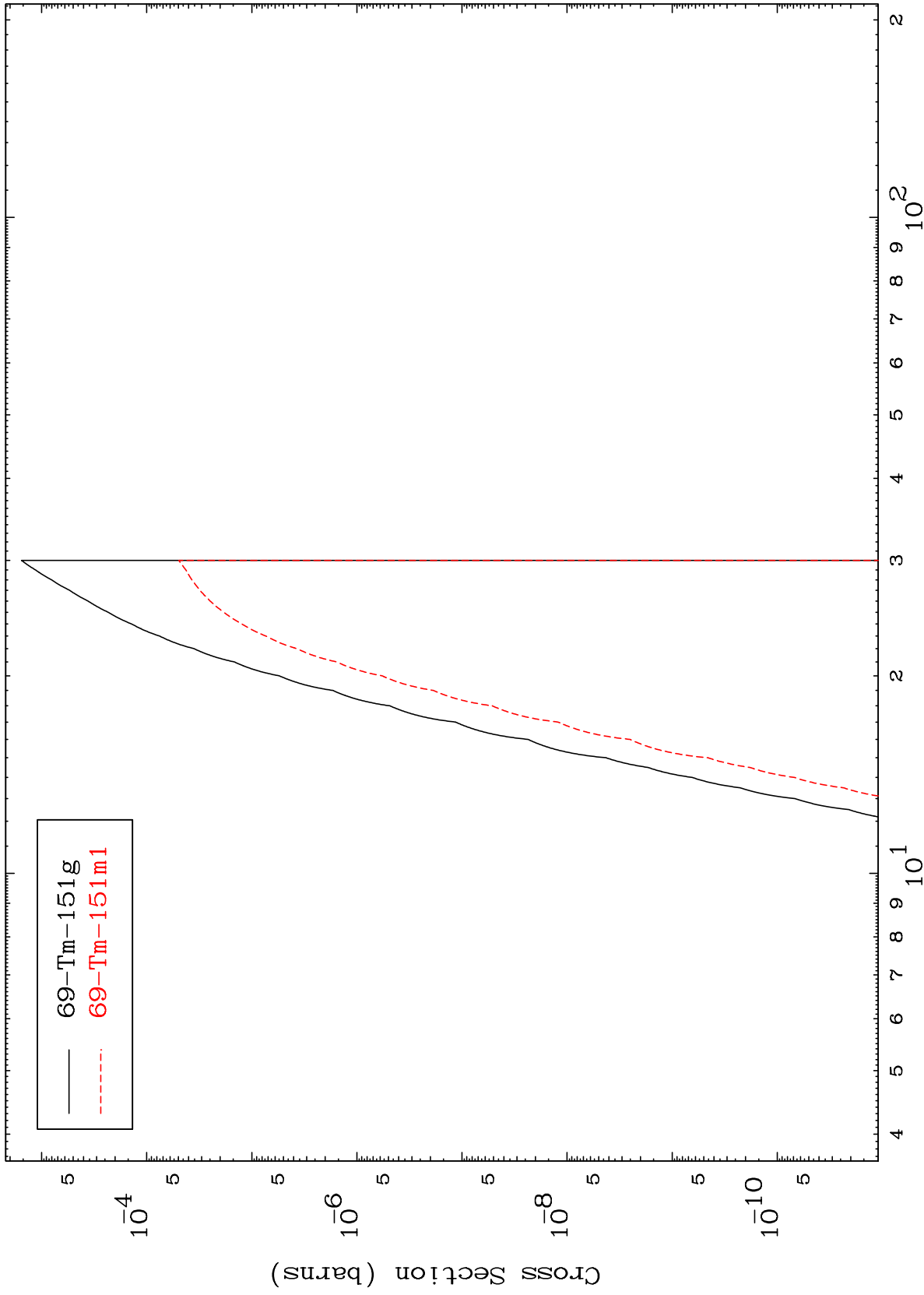
⁷¹Lu-154

MAT 7062

(n, n') He-3

71-Lu-154

Radionuclide Production Cross Section



71

Incident Energy (MeV)

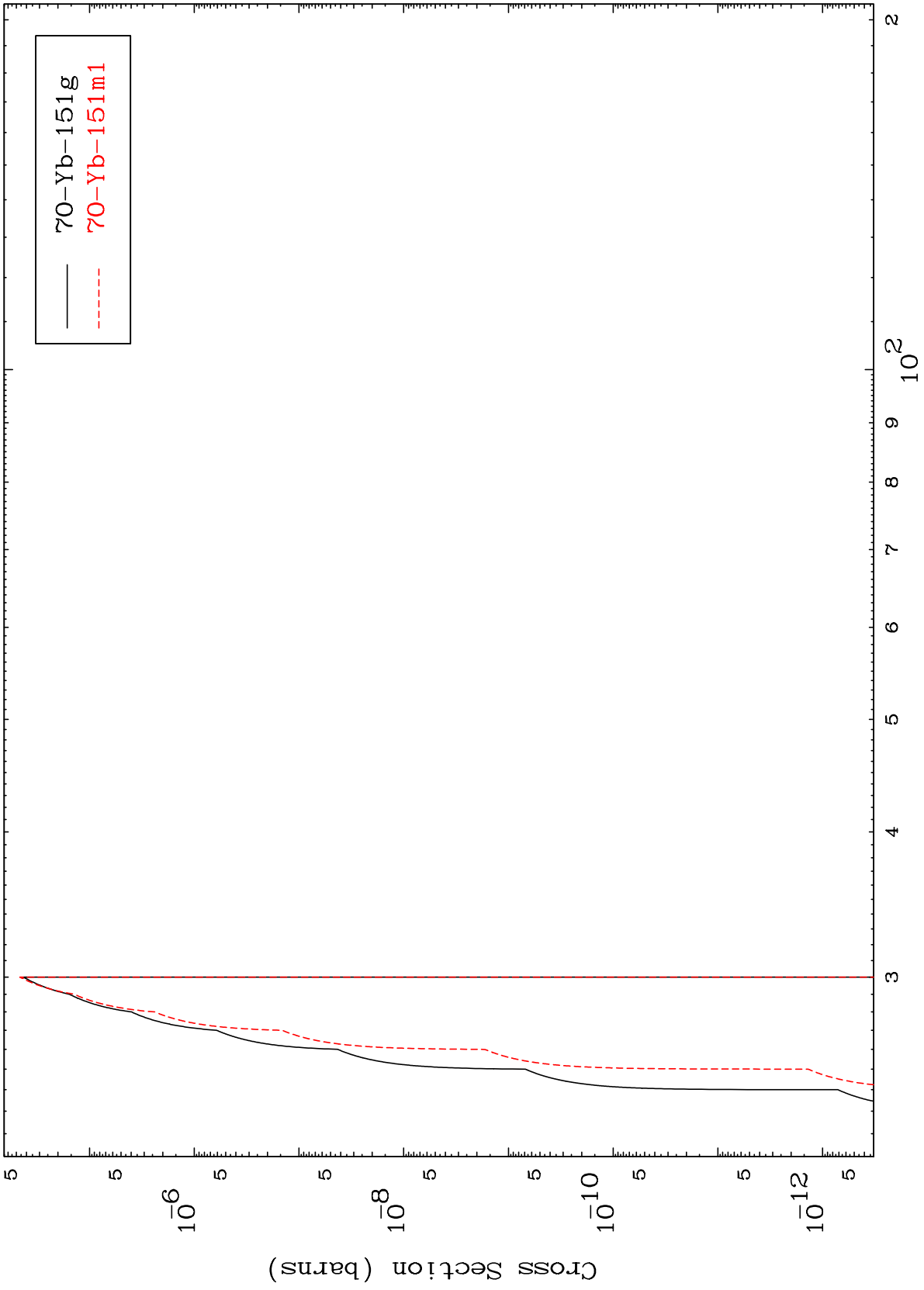
71-Lu-154

MAT 7062

(n,3n) p

⁷¹Lu-154

Radionuclide Production Cross Section



72

Incident Energy (MeV)

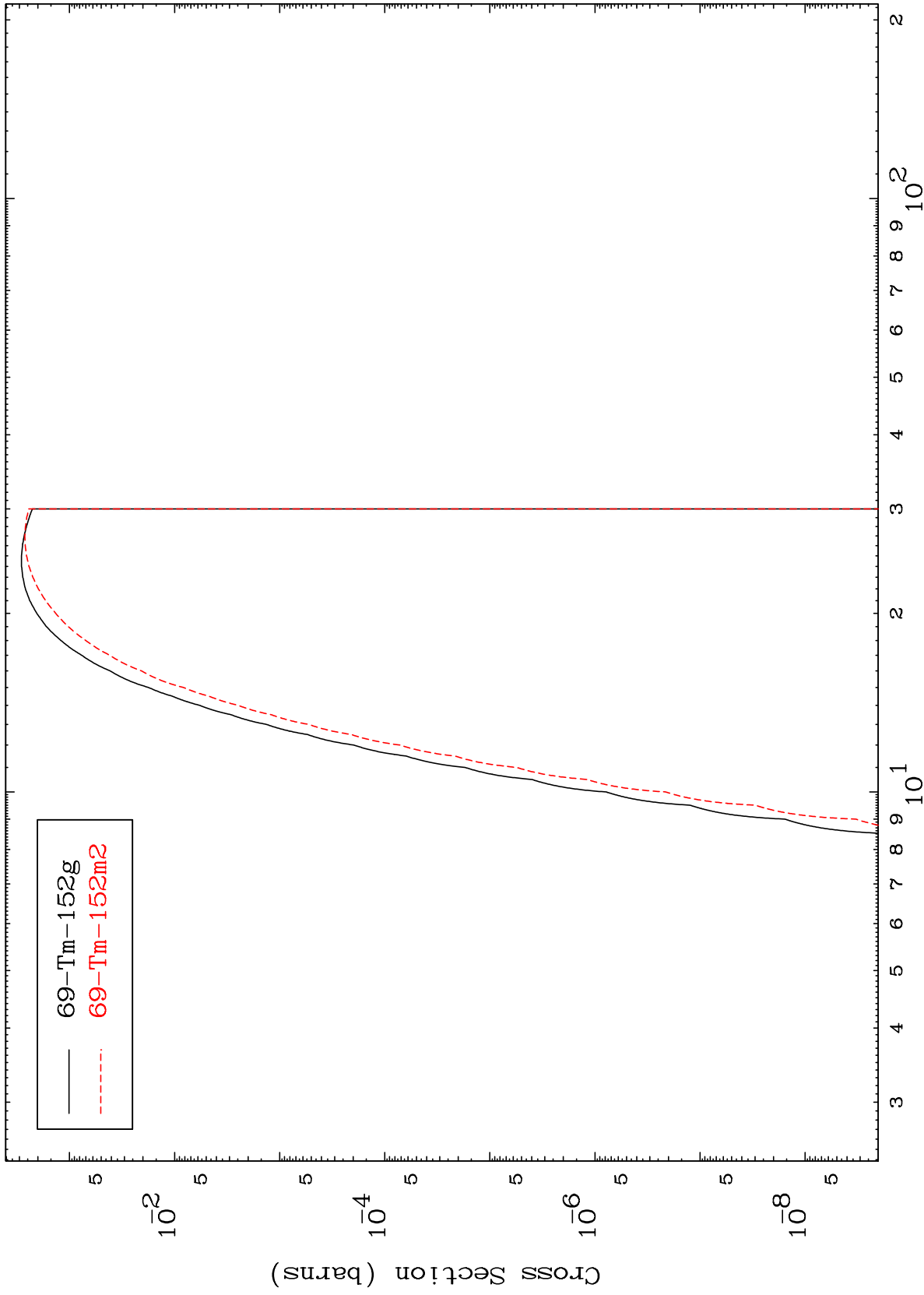
⁷¹Lu-154

MAT 7062

(n,2n) p

71-Lu-154

Radionuclide Production Cross Section



73

Incident Energy (MeV)

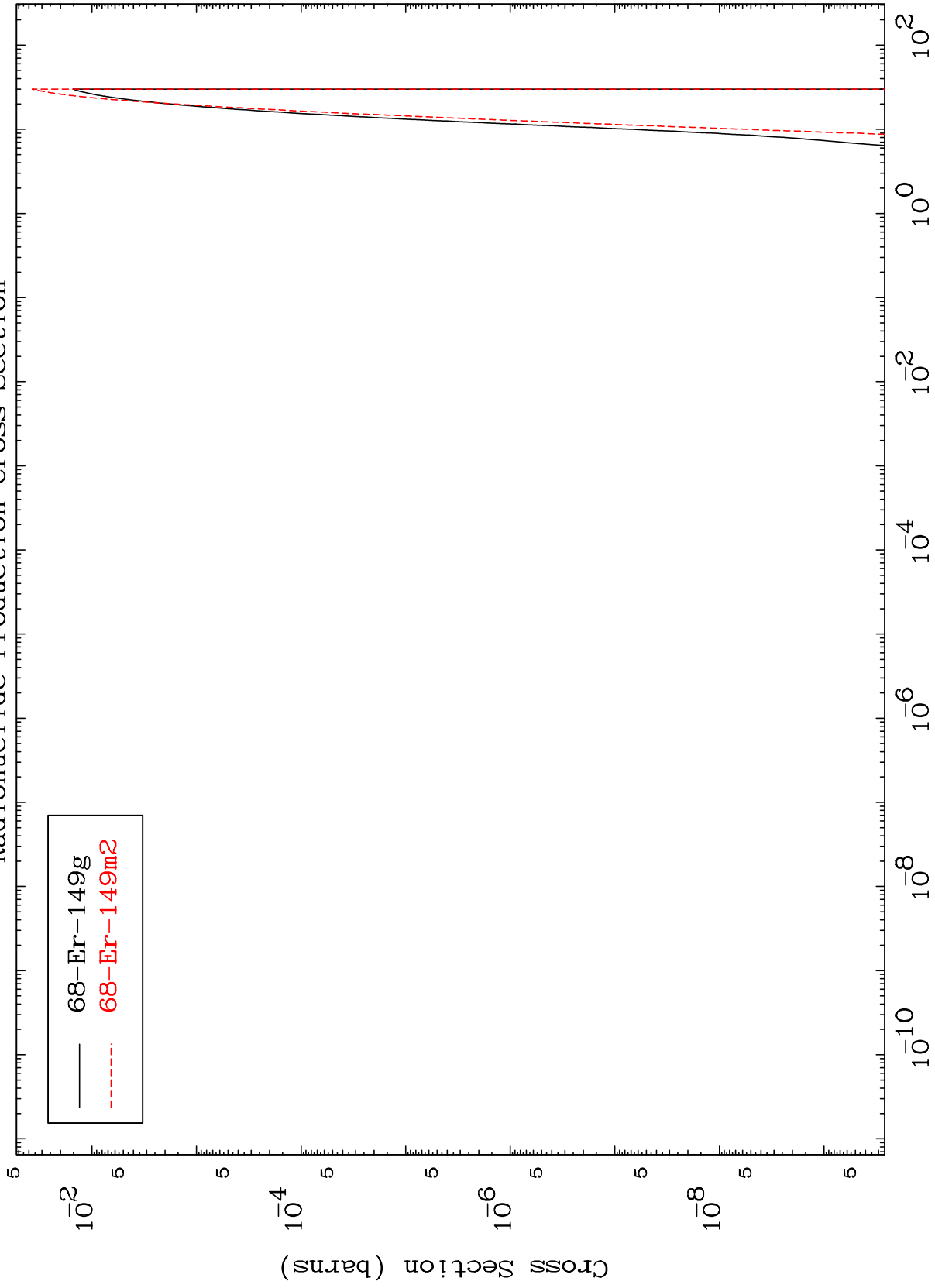
71-Lu-154

MAT 7062

(n,n') p α

71-Lu-154

Radionuclide Production Cross Section



68-Er-149g
68-Er-149m2

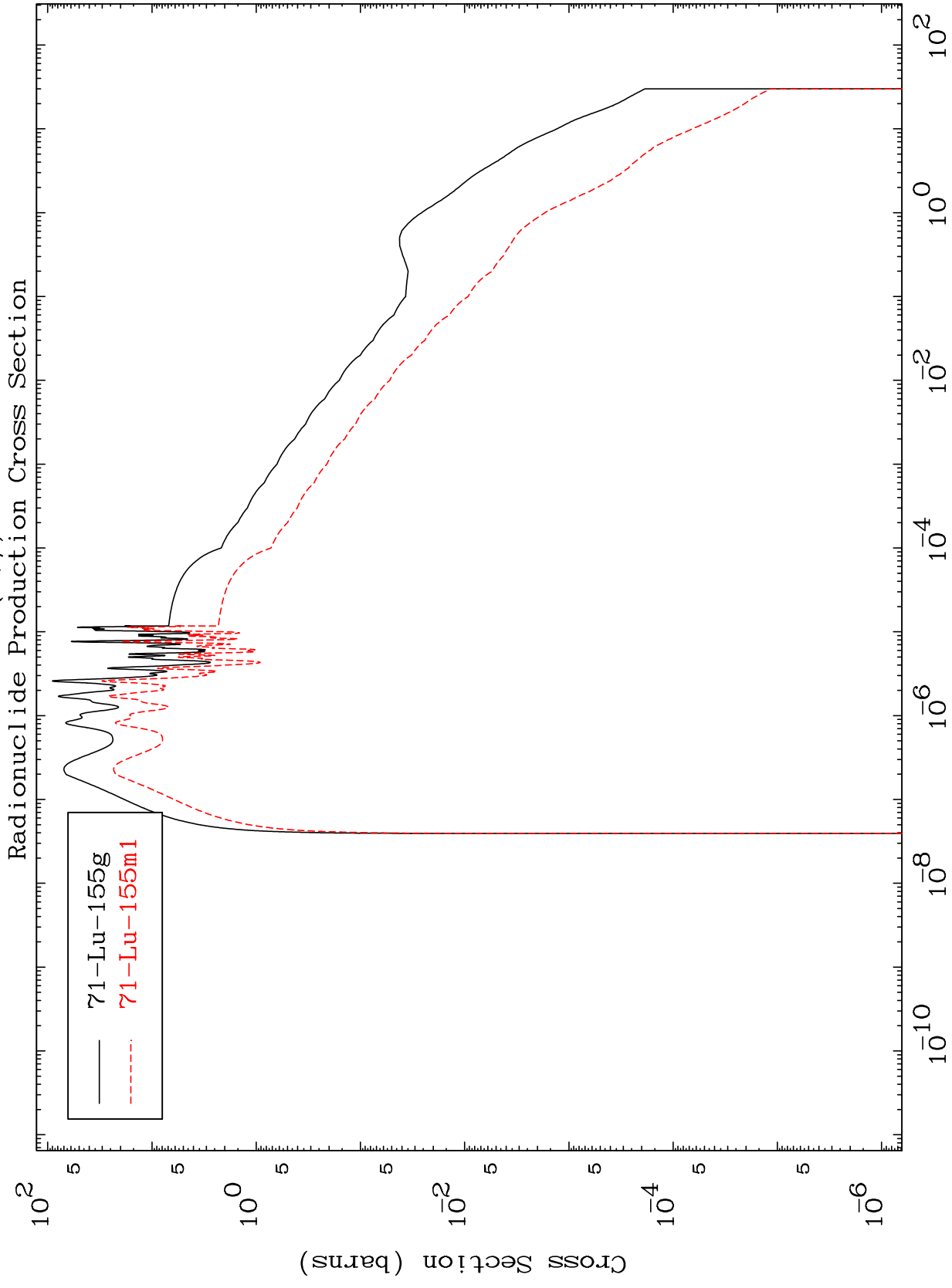
74

Incident Energy (MeV)

71-Lu-154

MAT 7062

⁷¹Lu-154



75

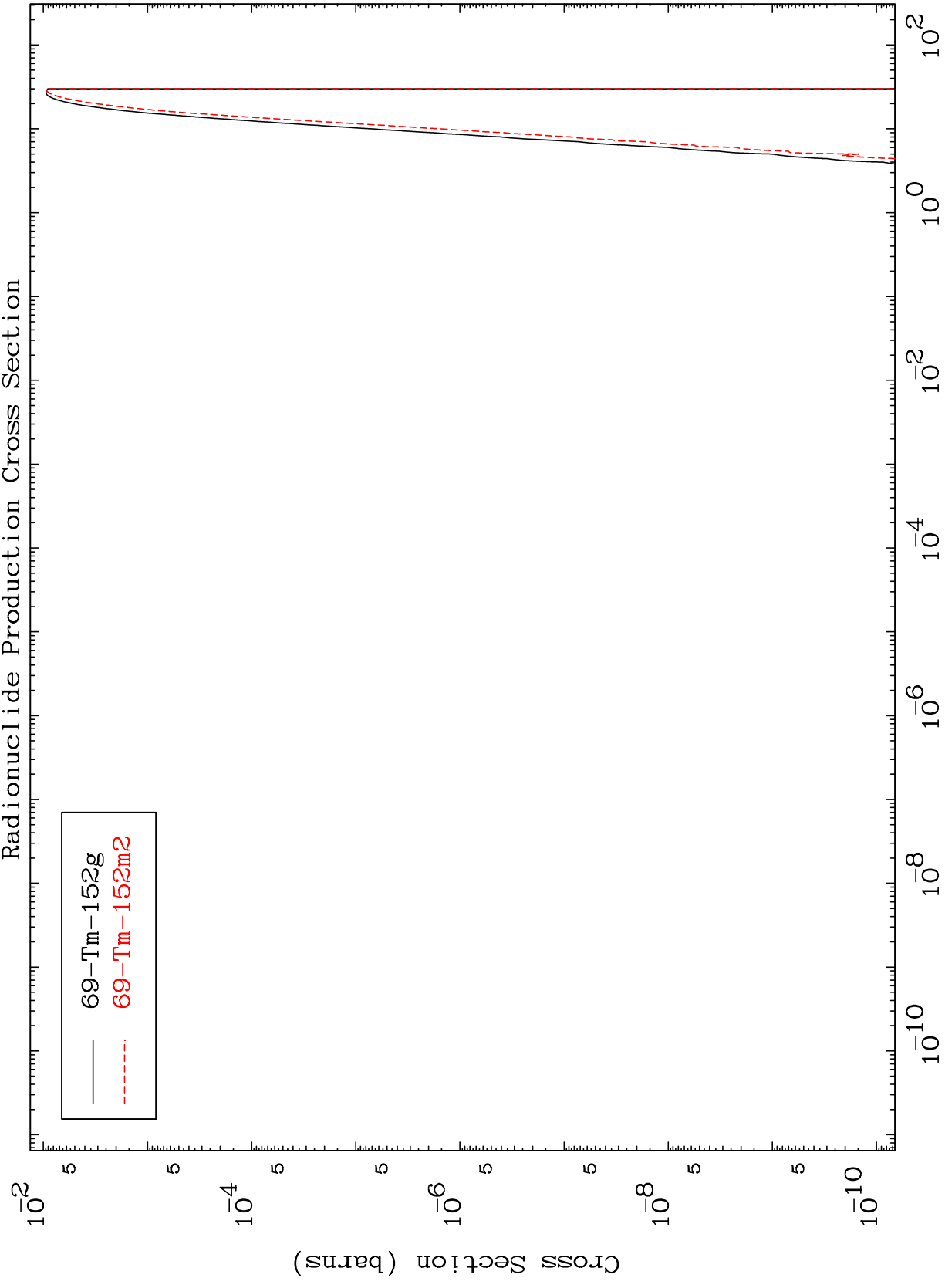
⁷¹Lu-154

MAT 7062

(n, He-3)

71-Lu-154

Radionuclide Production Cross Section



76

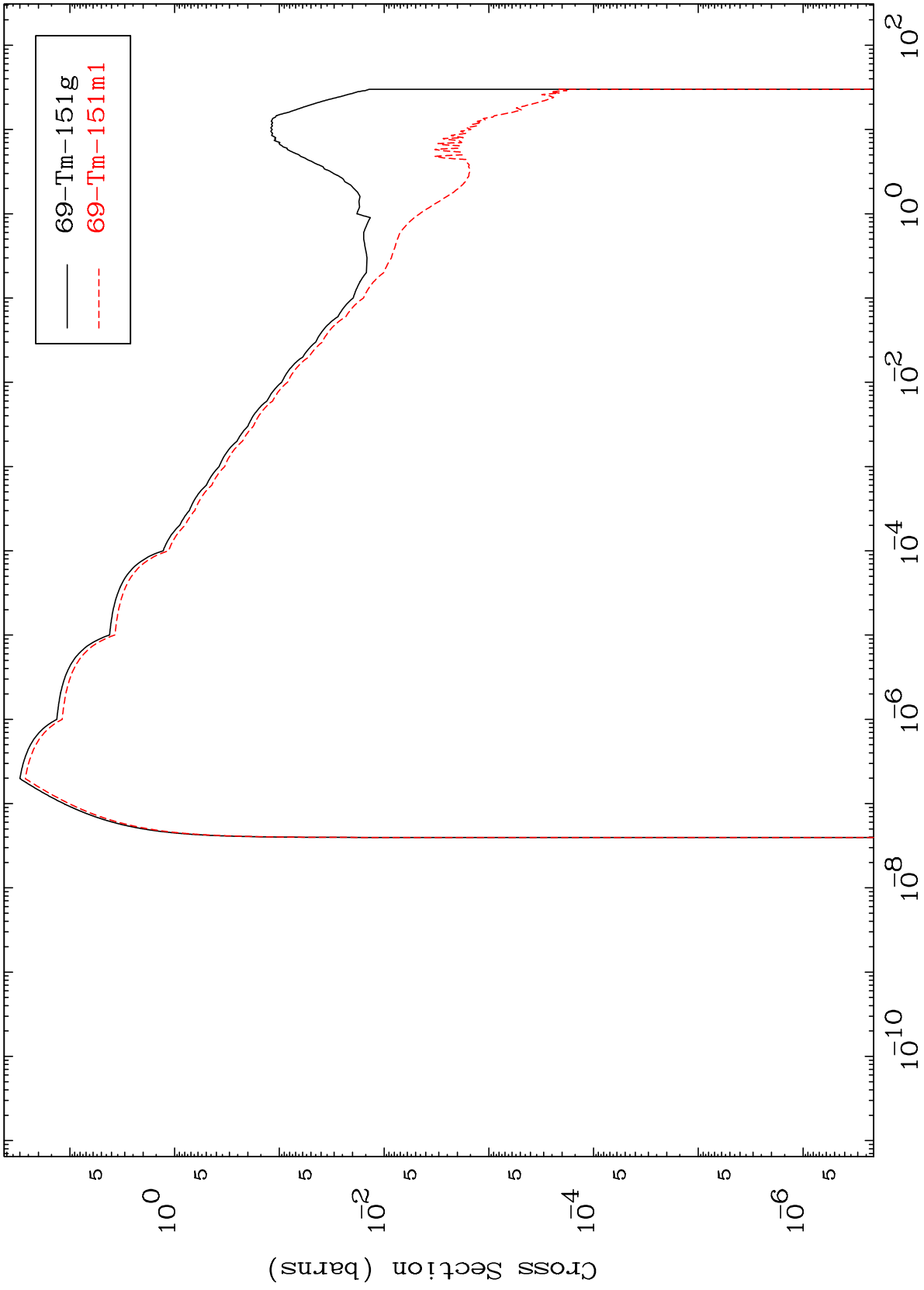
Incident Energy (MeV)

71-Lu-154

MAT 7062

71-Lu-154

(n, α)
Radionuclide Production Cross Section



77

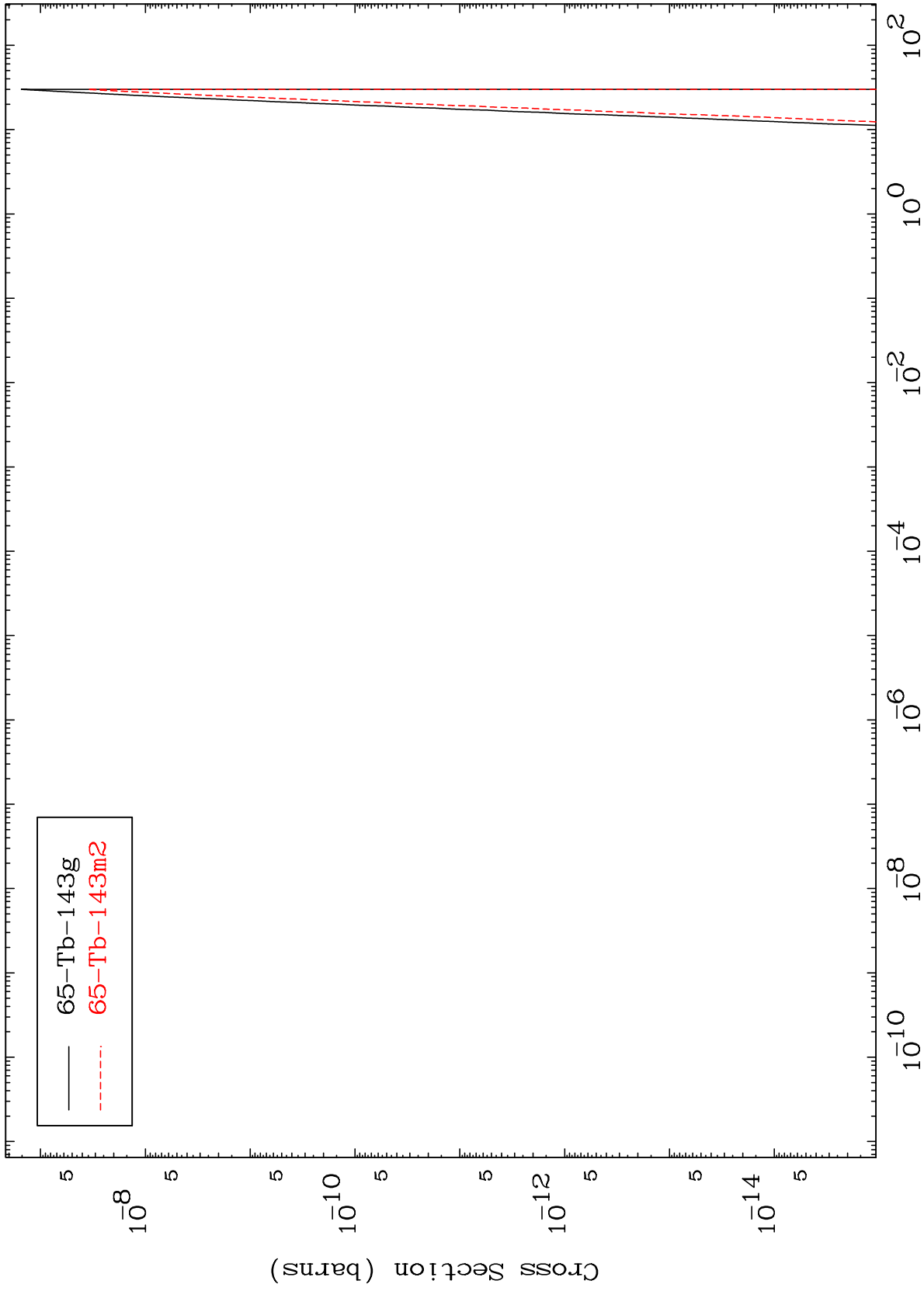
71-Lu-154

MAT 7062

(n, 3α)

⁷¹Lu-154

Radionuclide Production Cross Section



78

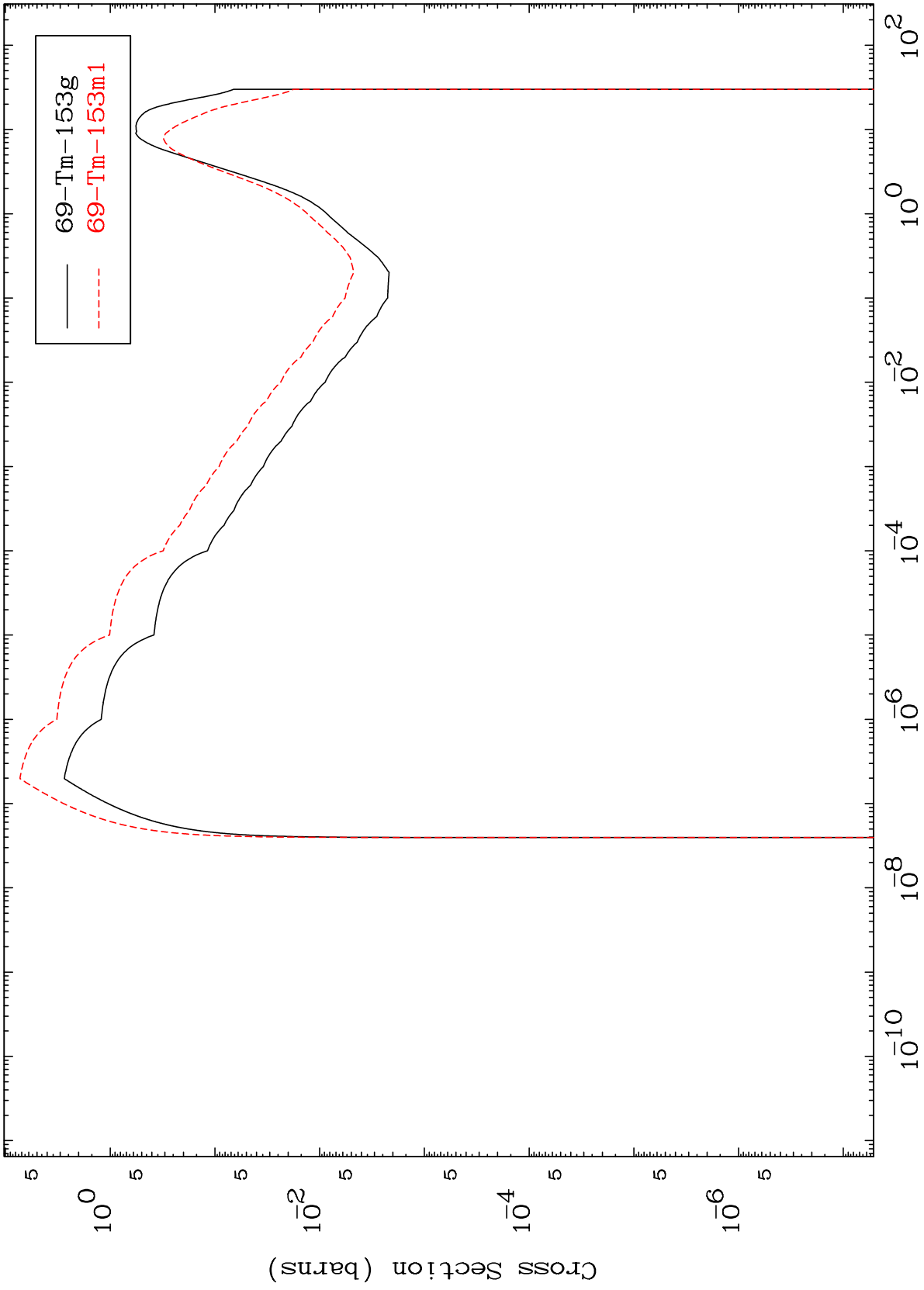
Incident Energy (MeV)

⁷¹Lu-154

MAT 7062

71-Lu-154

(n,2p)
Radionuclide Production Cross Section



79

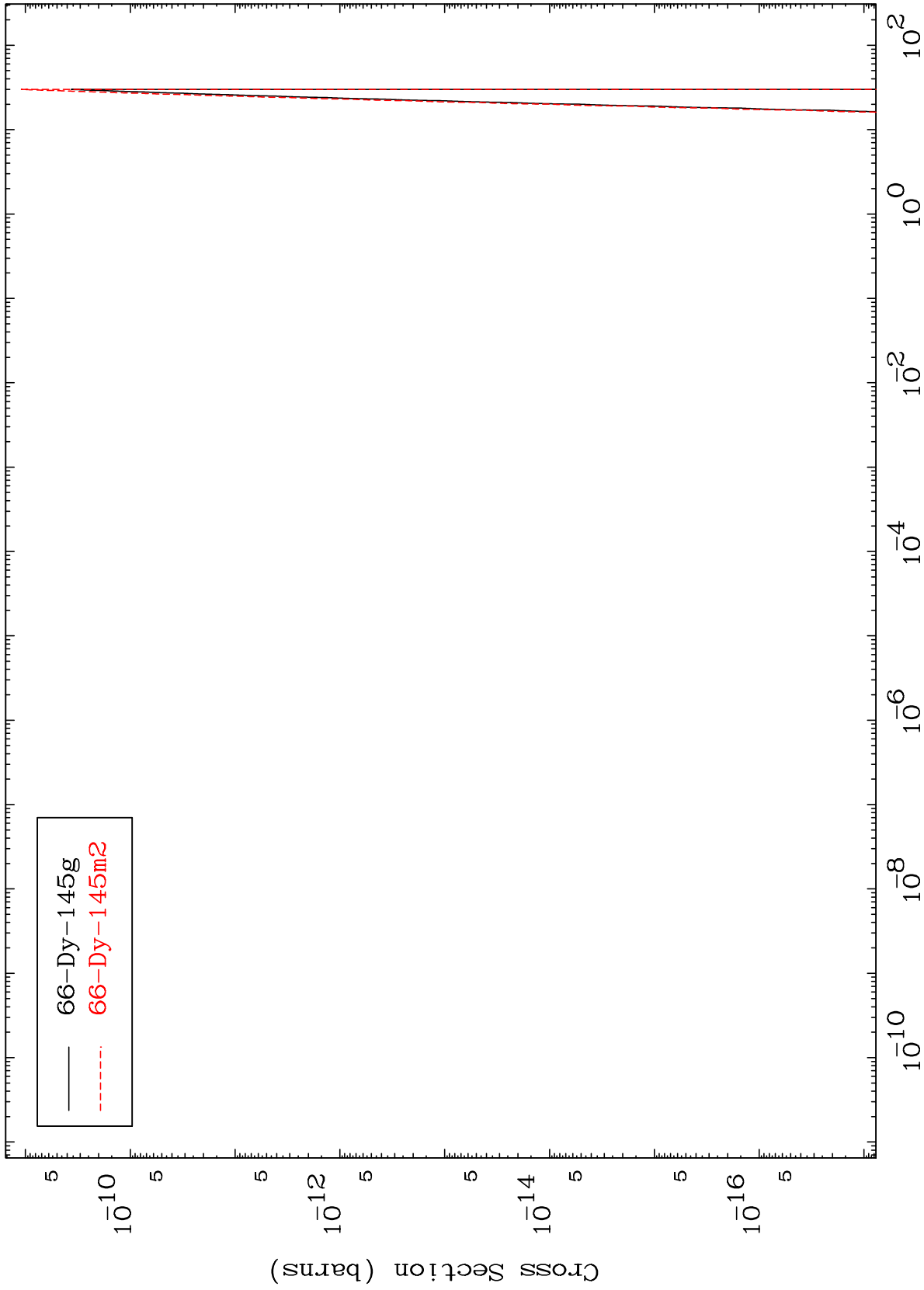
71-Lu-154

MAT 7062

(n,d) 2α

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

Radionuclide Production Cross Section



80

Incident Energy (MeV)

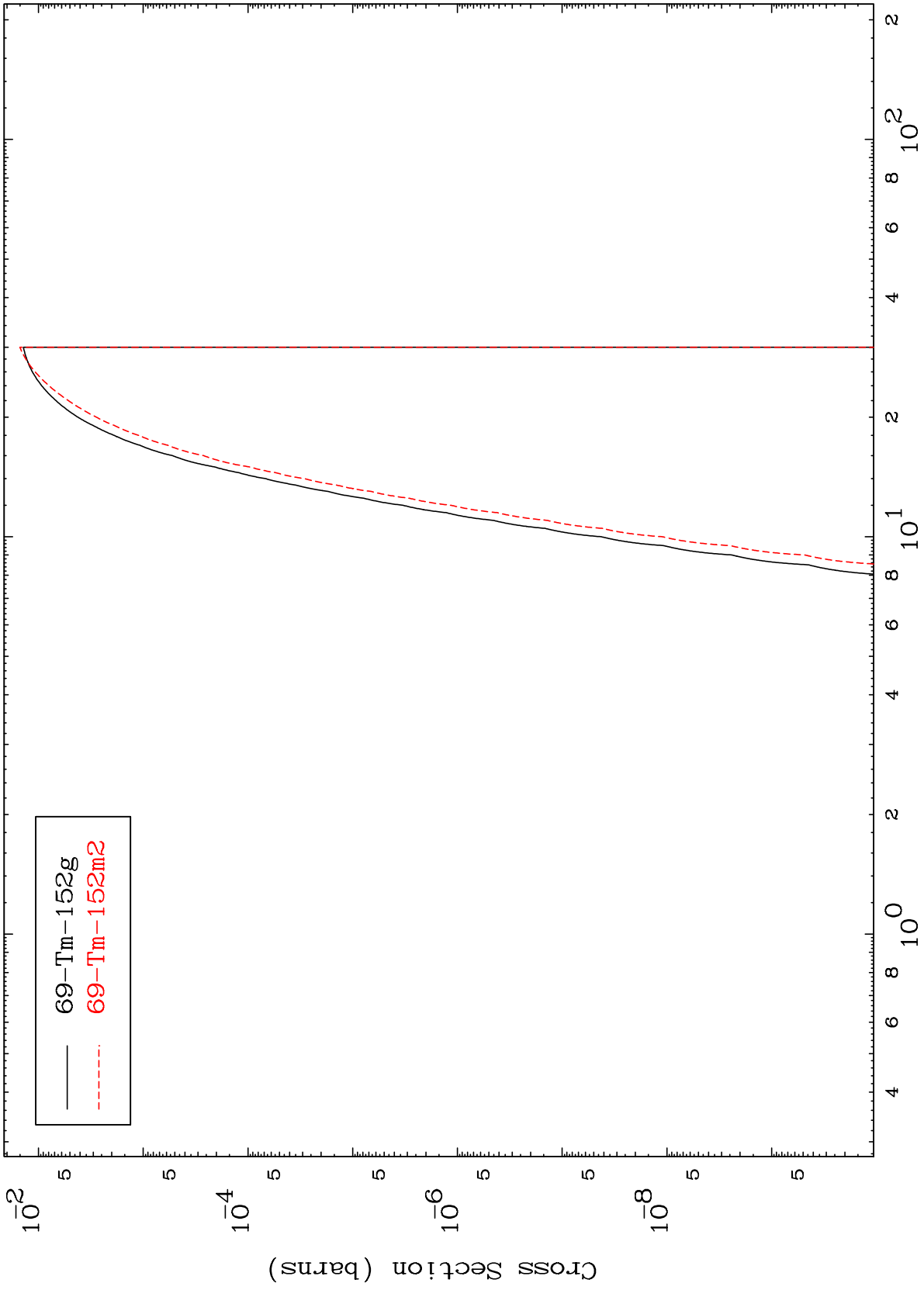
$^{71}\text{Lu-154}$

MAT 7062

(n,p) d

⁷¹Lu-154

Radionuclide Production Cross Section



81

Incident Energy (MeV)

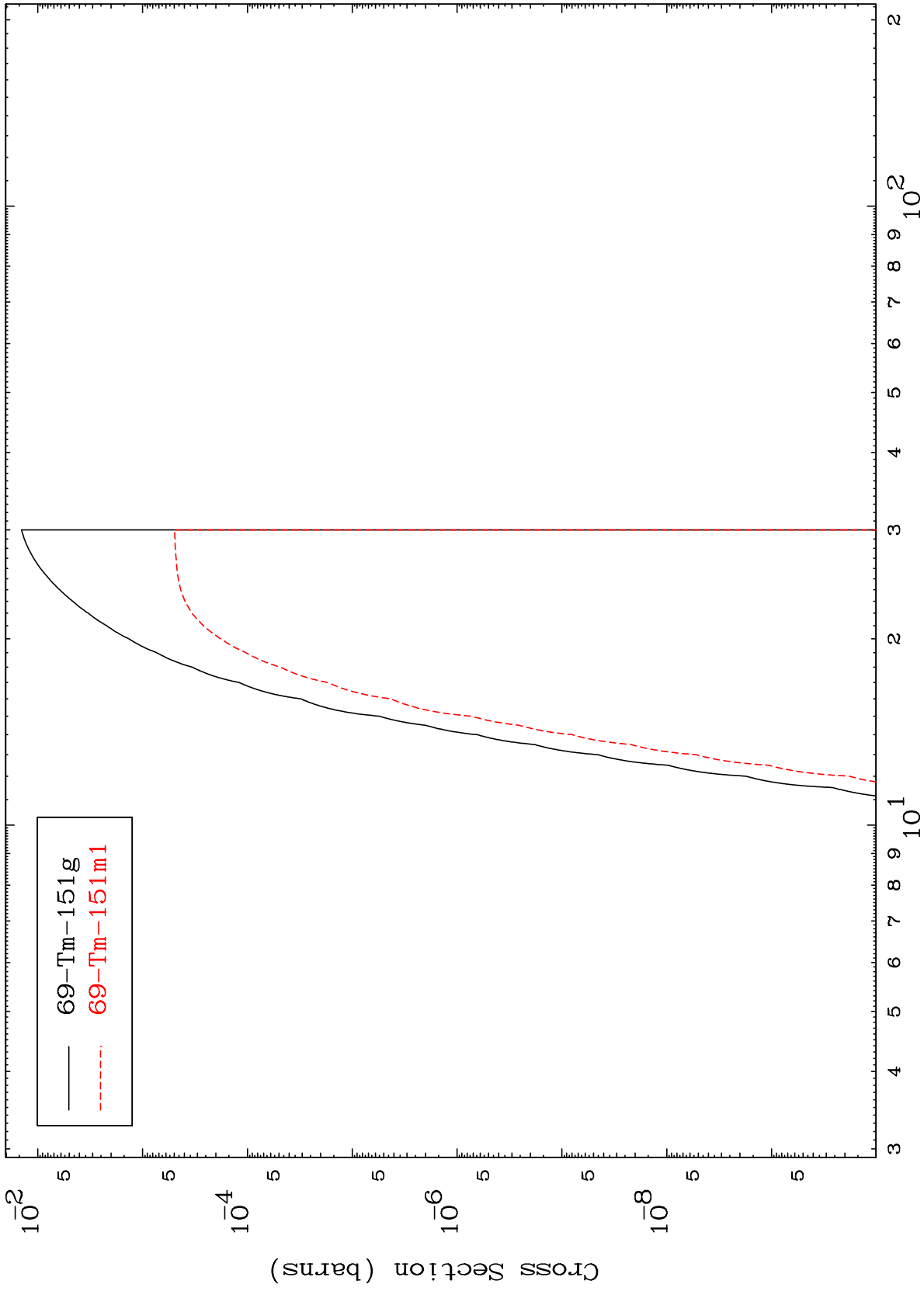
⁷¹Lu-154

MAT 7062

(n,p) t

71-Lu-154

Radionuclide Production Cross Section



82

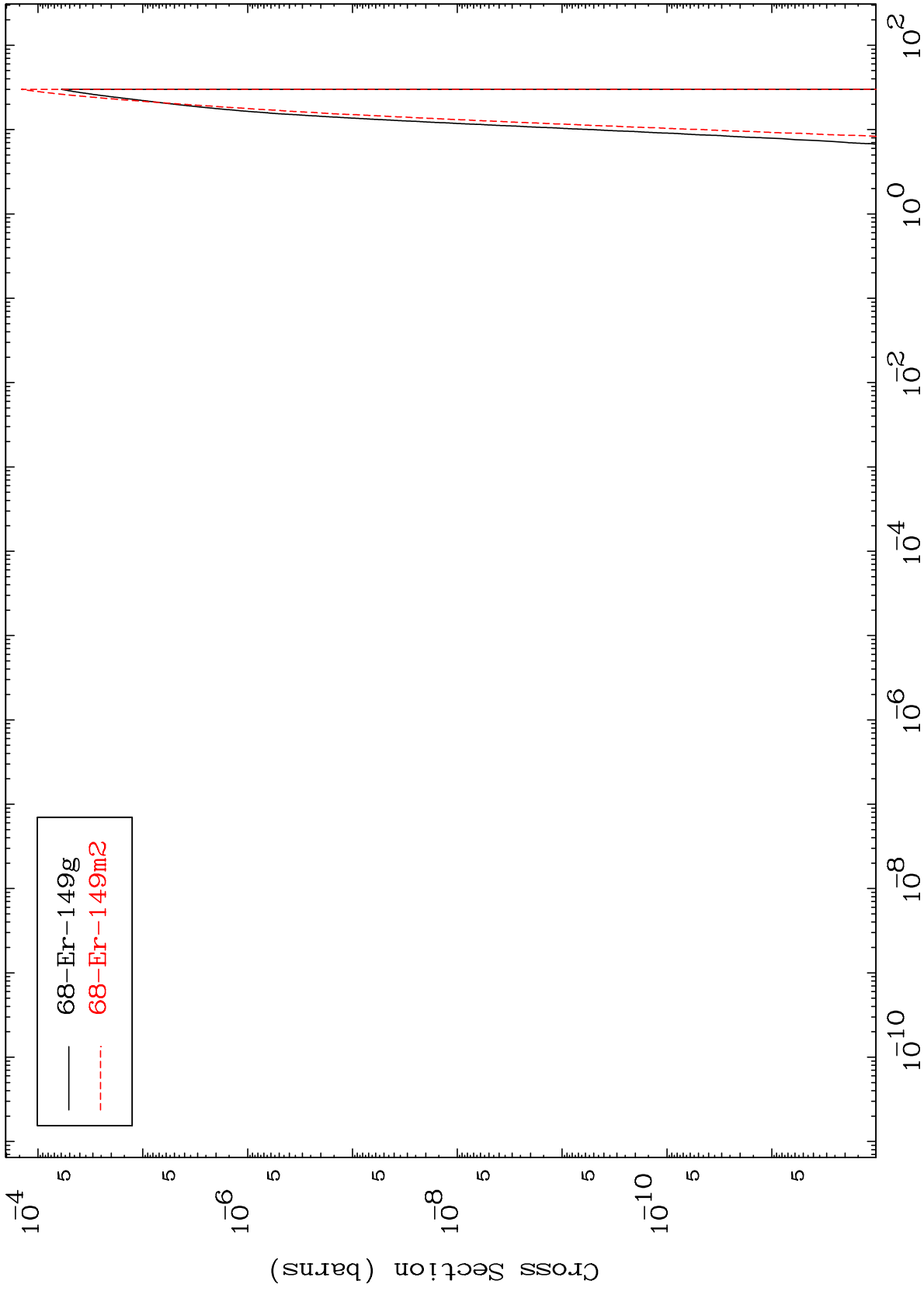
71-Lu-154

MAT 7062

(n,d) α

⁷¹Lu-154

Radionuclide Production Cross Section



83

Incident Energy (MeV)

⁷¹Lu-154