

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

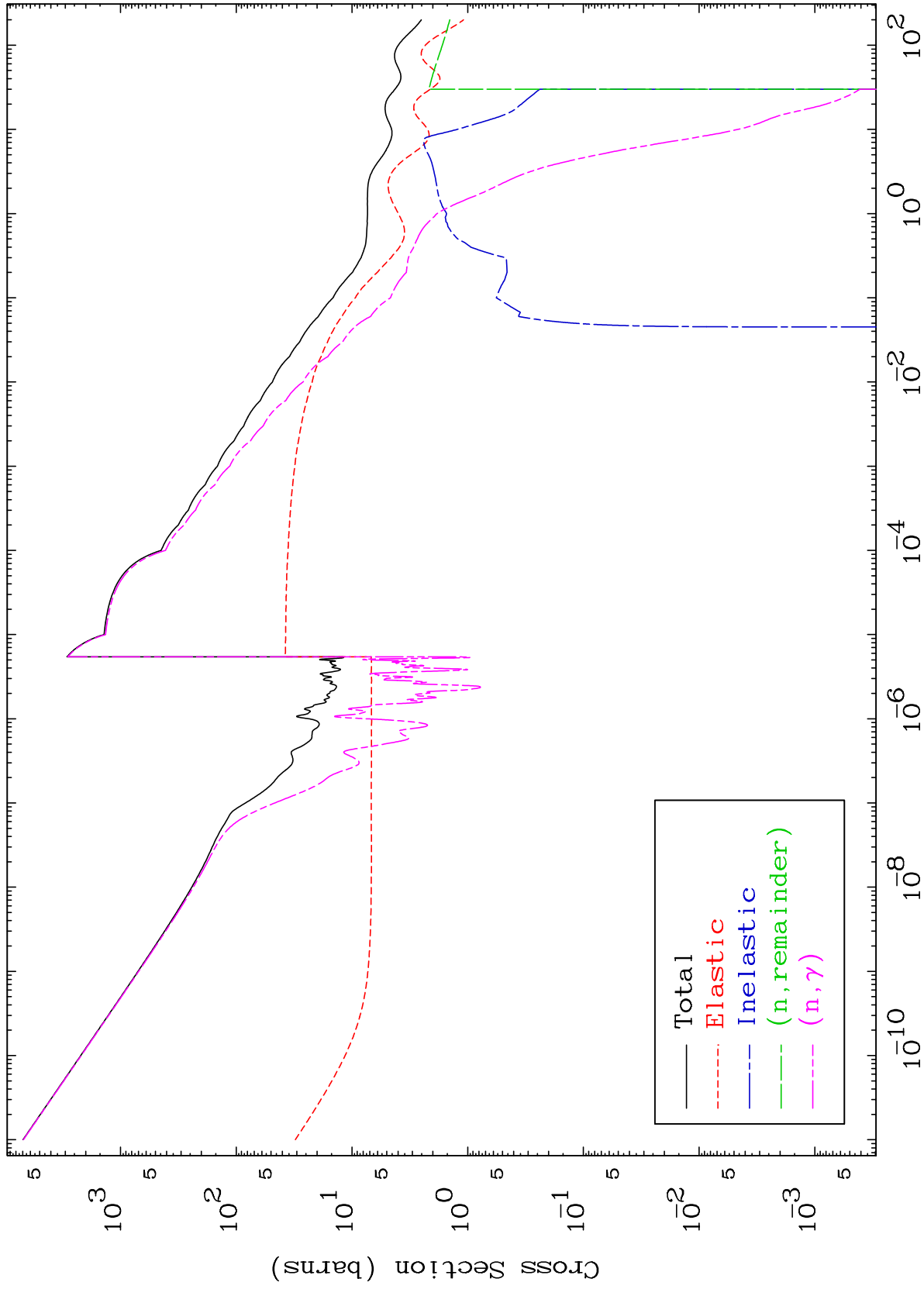
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6904

Major  
293 Kelvin Cross Sections

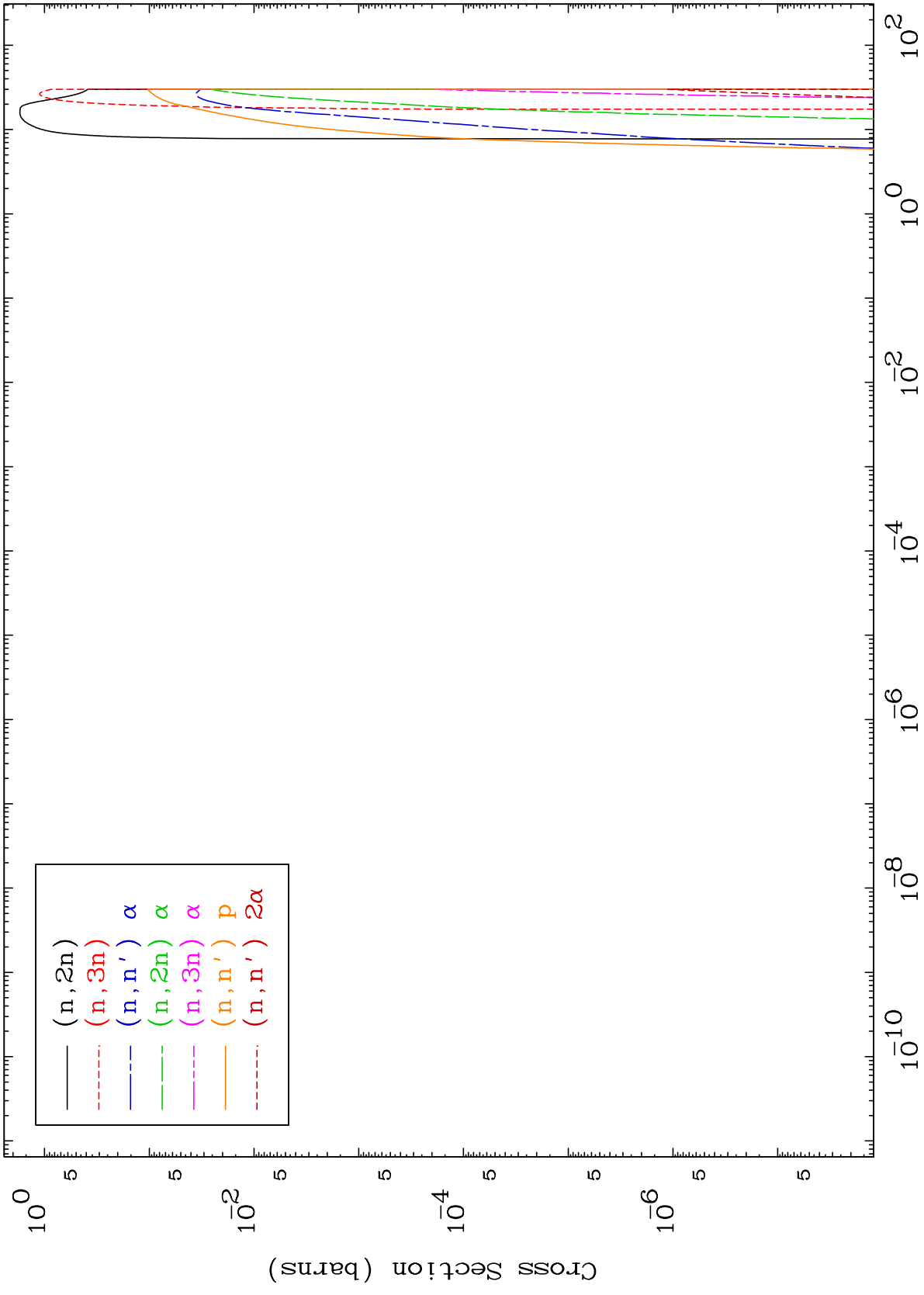
69-Tm-162



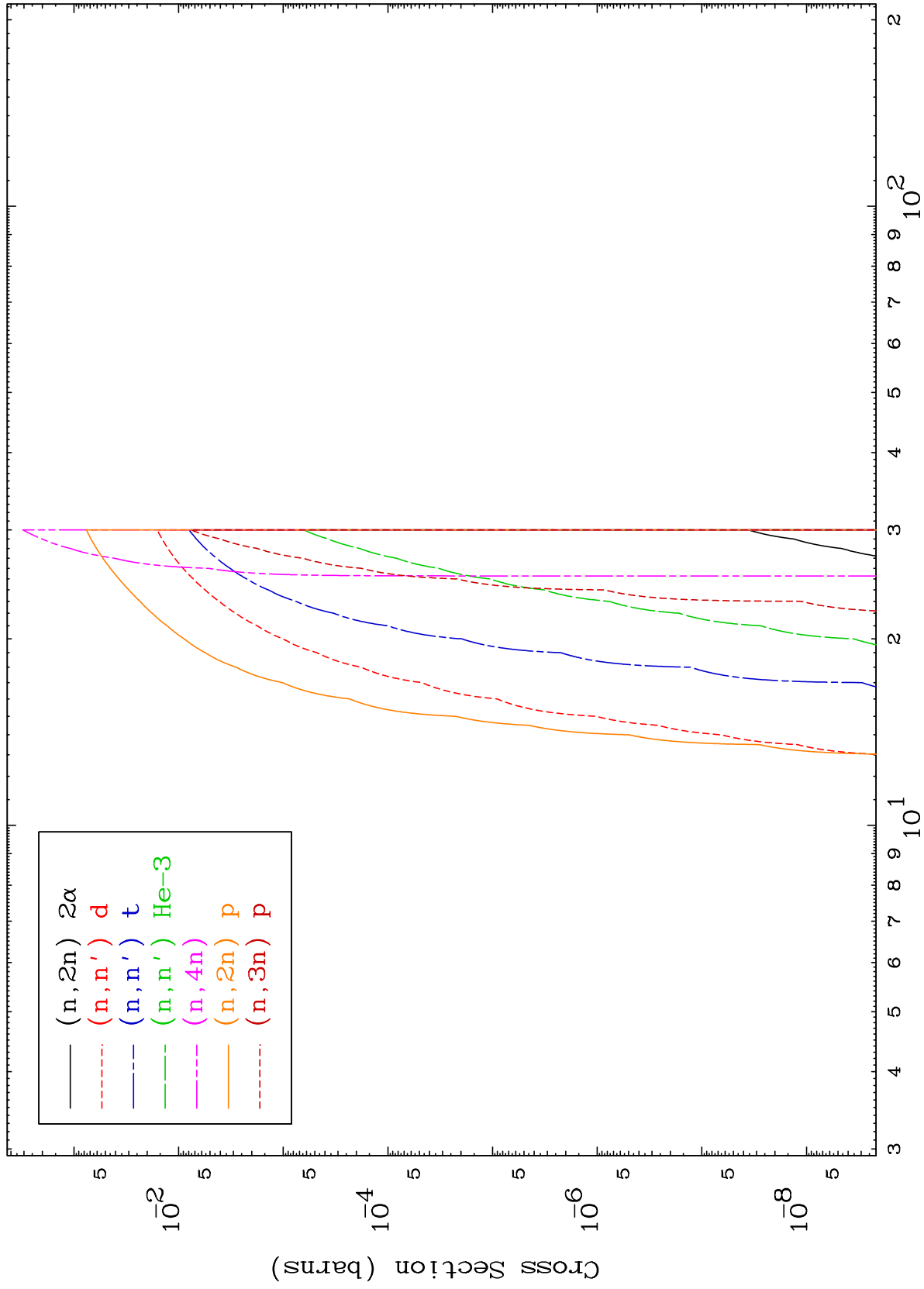
MAT 6904

### Neutron Production 293 Kelvin Cross Sections

69-Tm-162



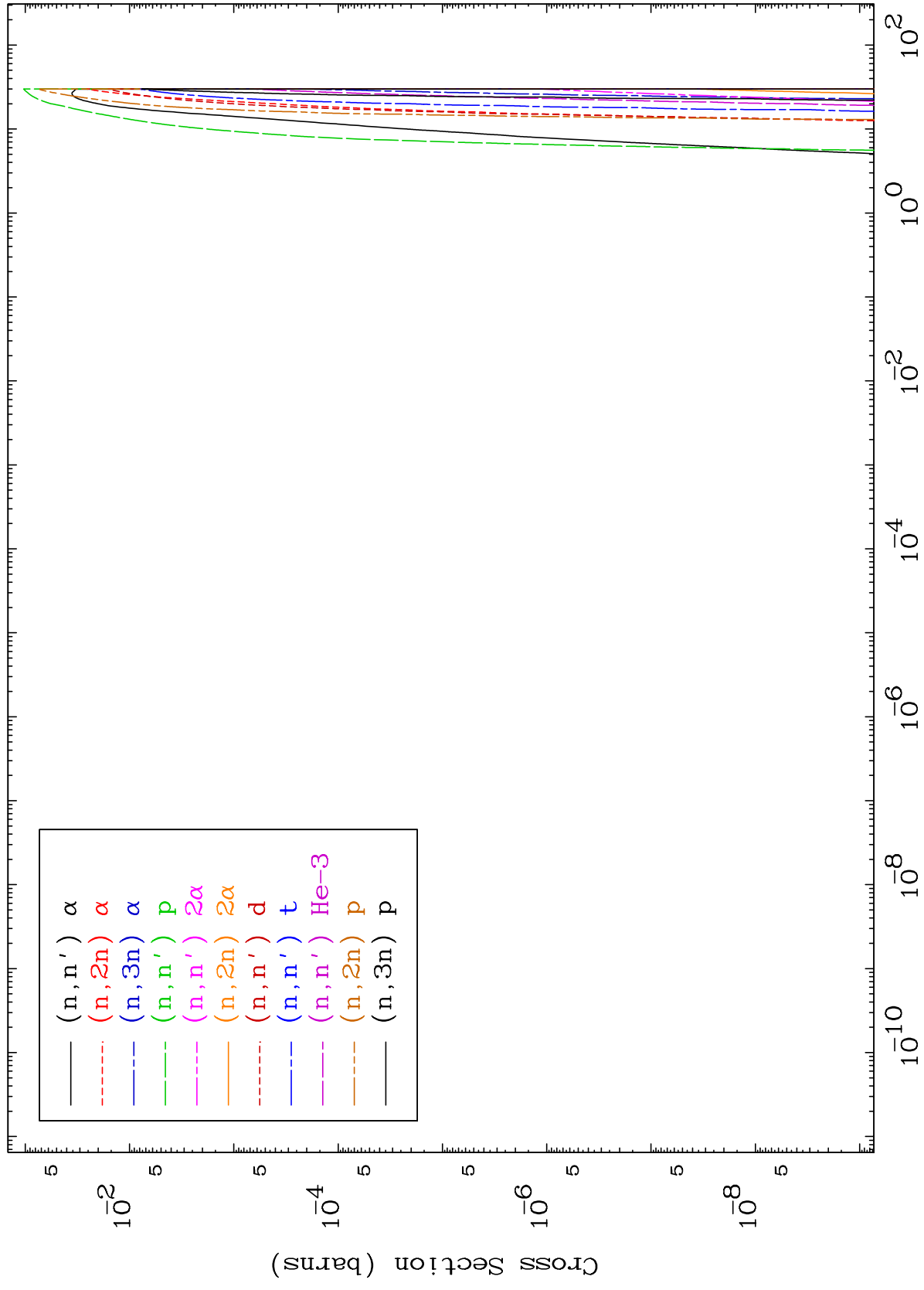
69-Tm-162



MAT 6904

293 Kelvin Cross Sections

69-Tm-162



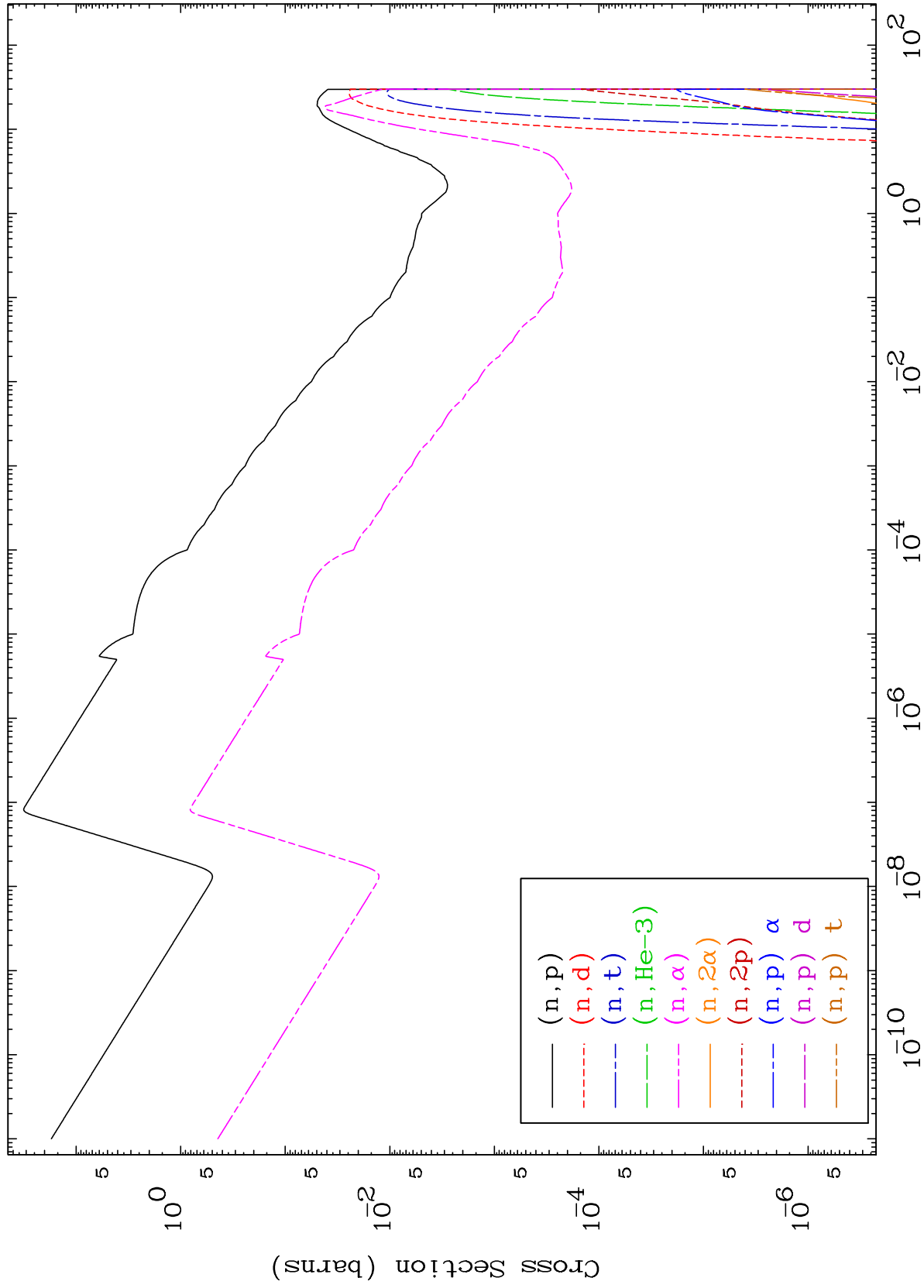
69-Tm-162

Incident Energy (MeV)

MAT 6904

293 Kelvin Cross Sections

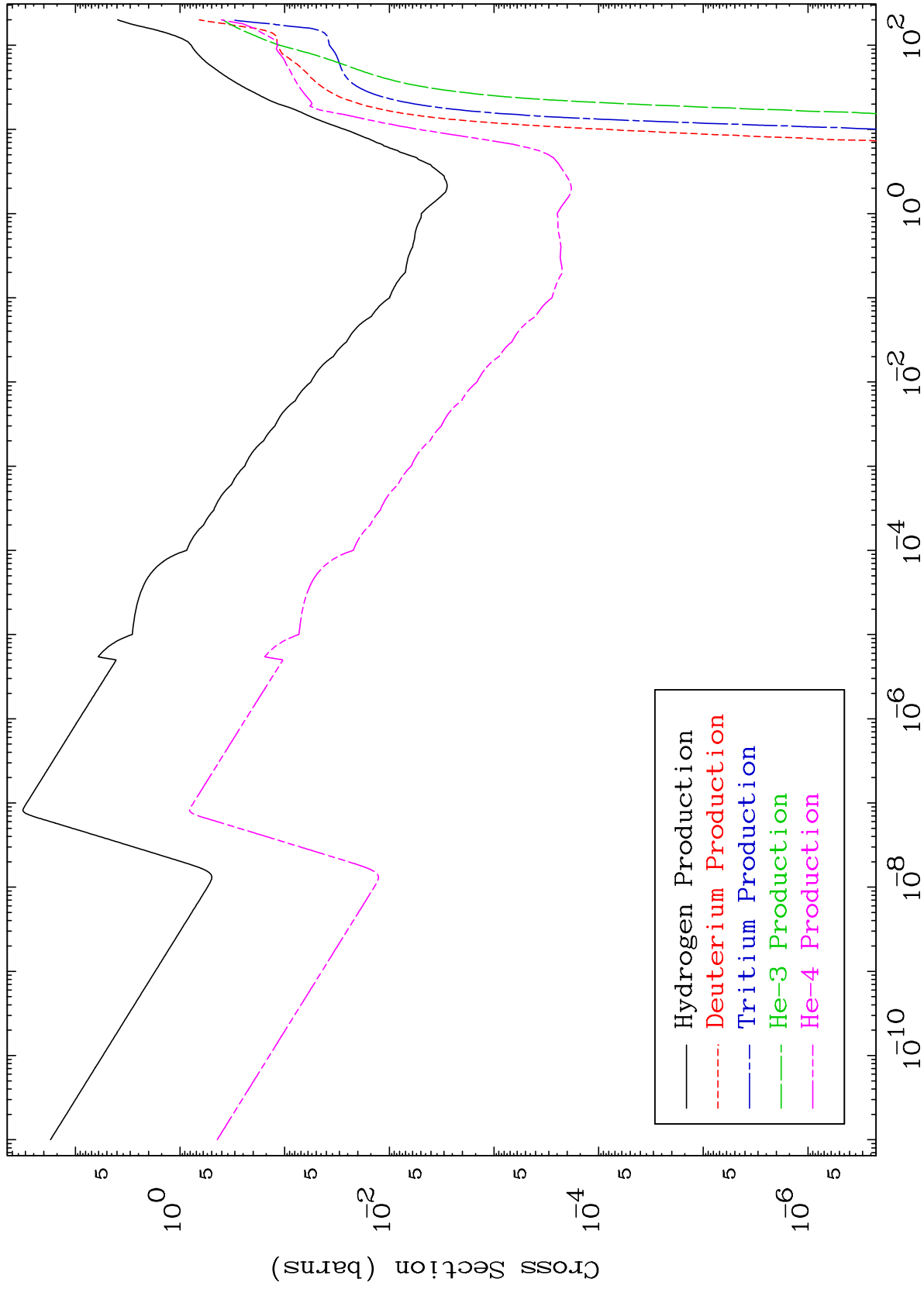
69-Tm-162



MAT 6904

Particle Production  
293 Kelvin Cross Sections

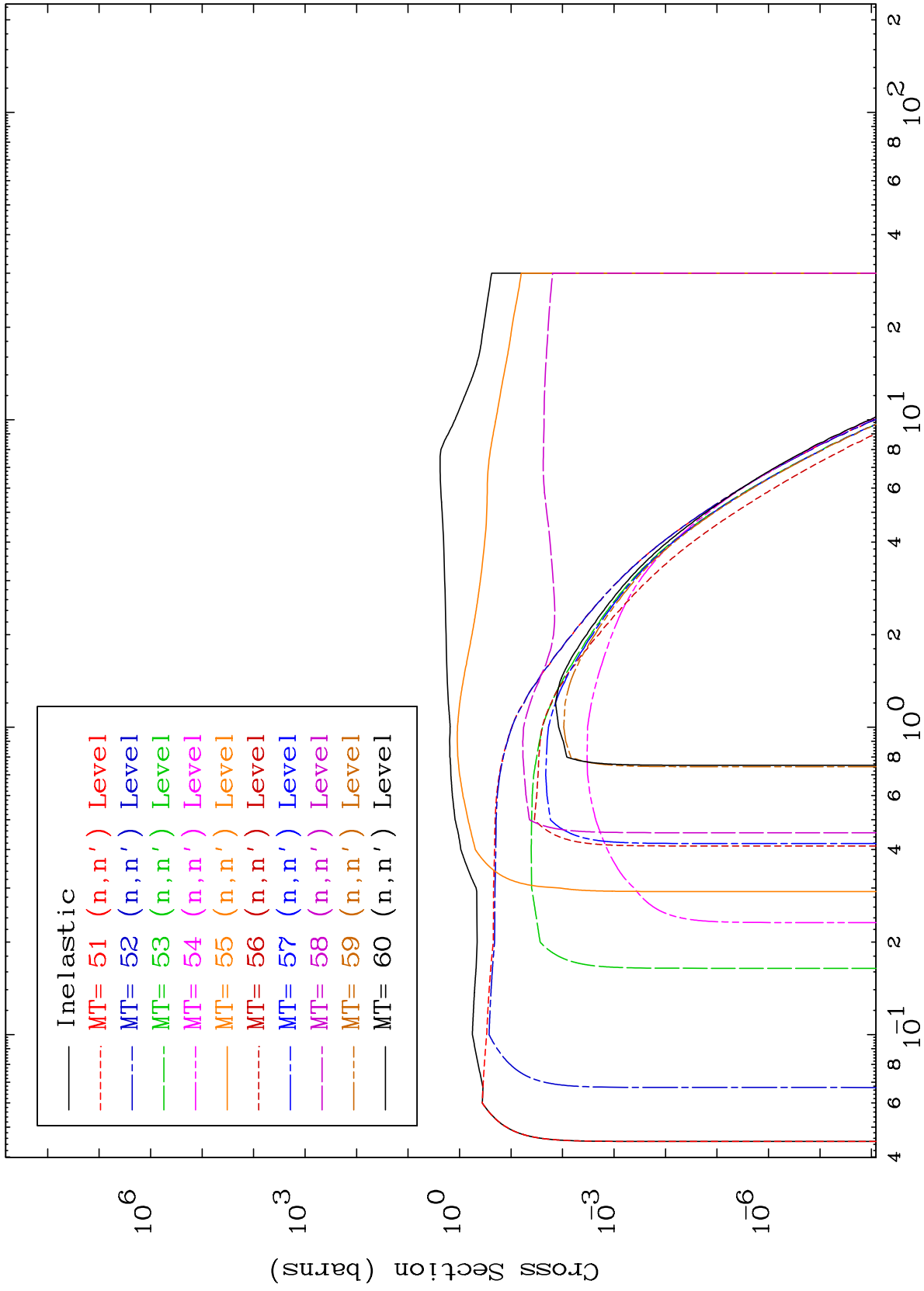
69-Tm-162



MAT 6904

293 Kelvin Cross Sections  
(n,n') Level

69-Tm-162



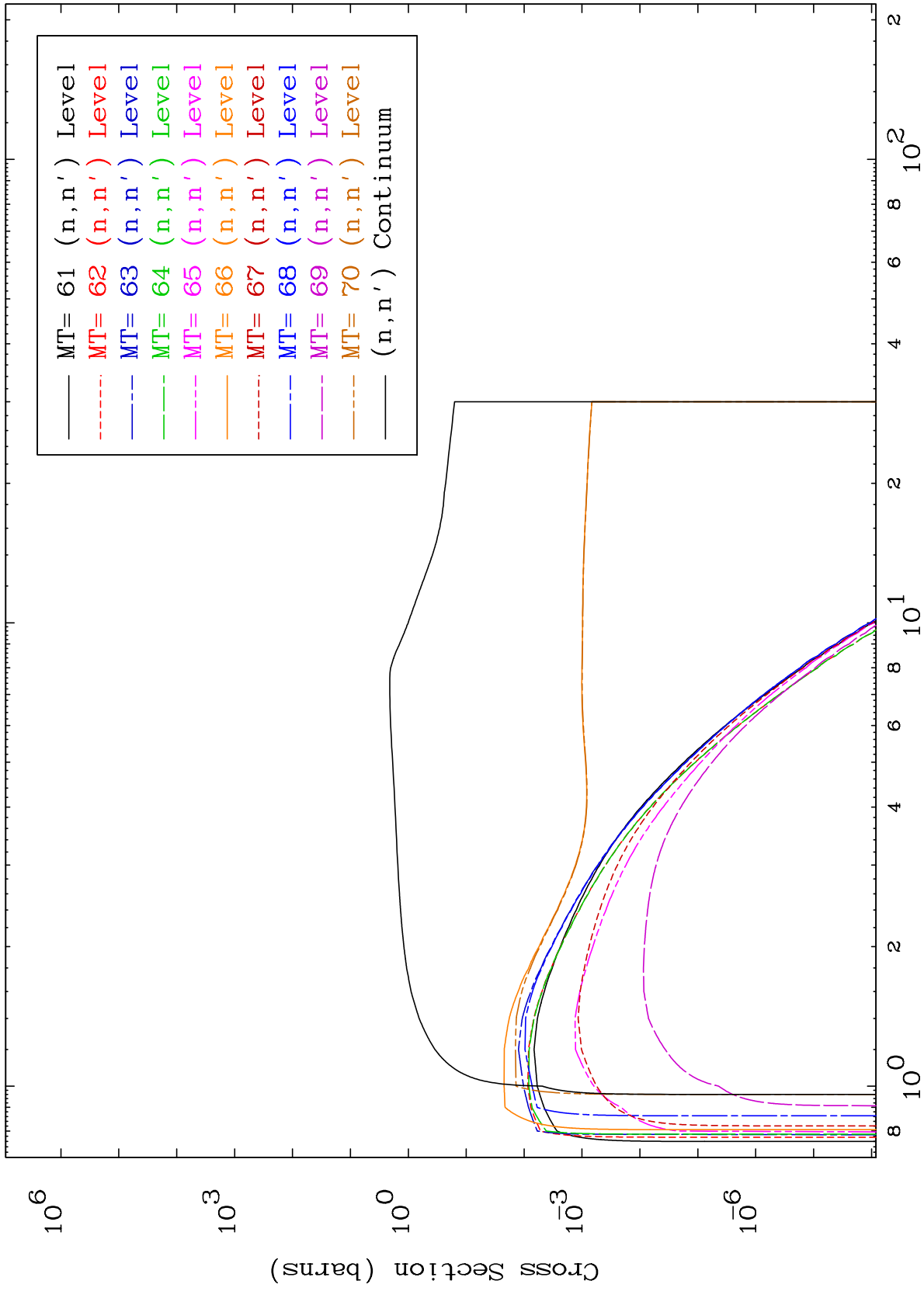


MAT 6904

(n,n') Level

69-Tm-162

293 Kelvin Cross Sections



8

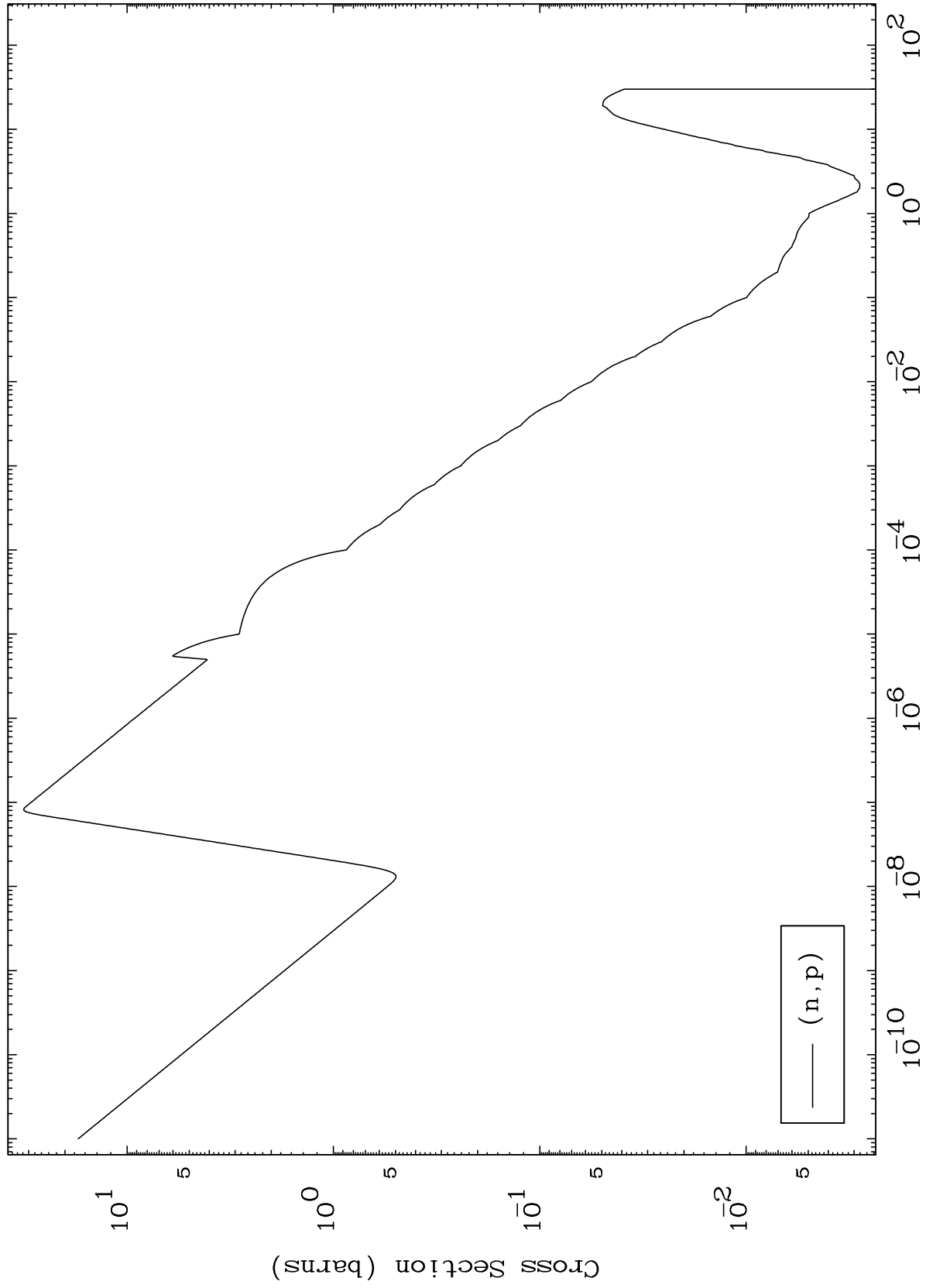
Incident Energy (MeV)

69-Tm-162

MAT 6904

(n,p) Levels  
293 Kelvin Cross Sections

69-Tm-162

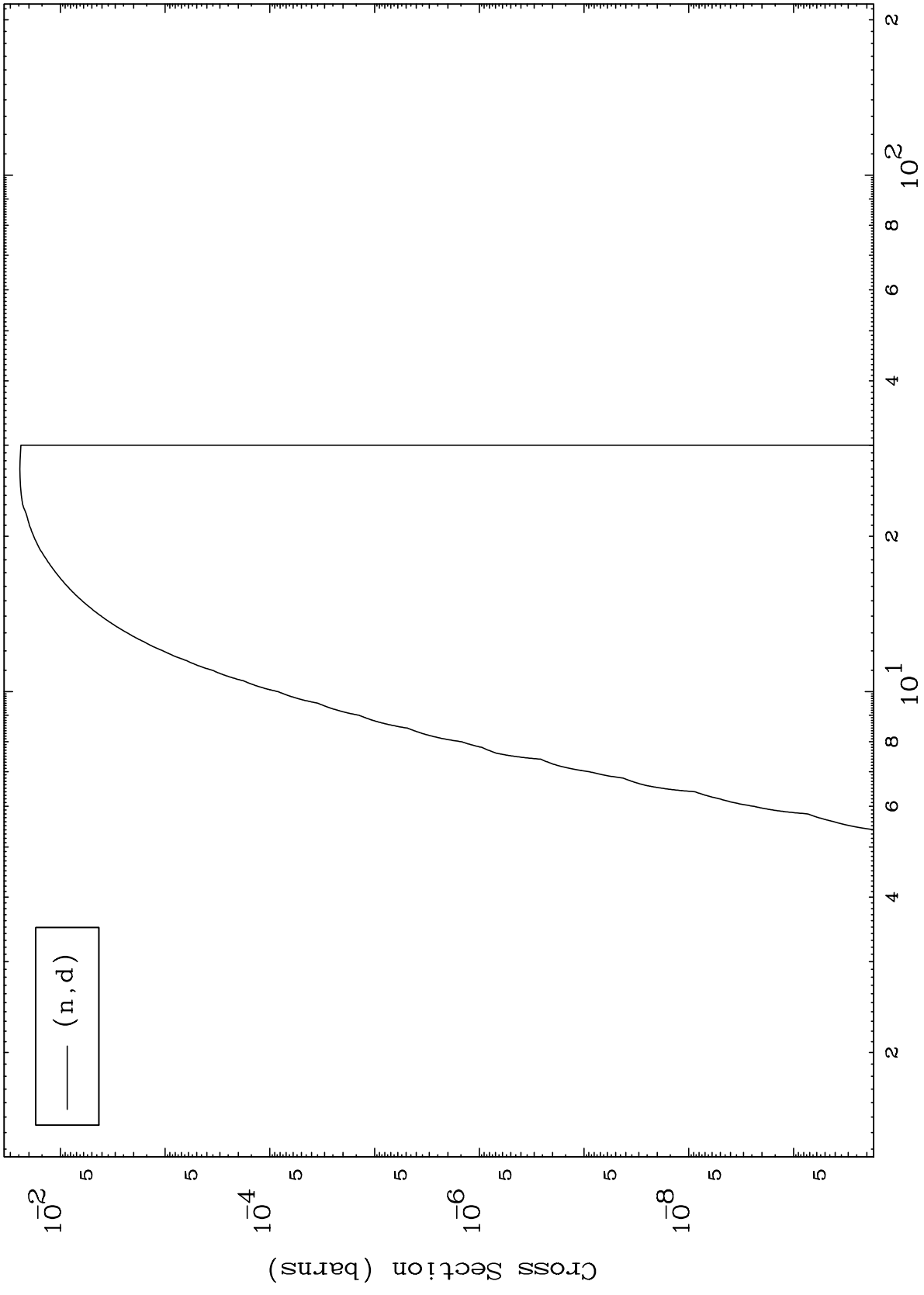


69-Tm-162

MAT 6904

(n,d) Levels  
293 Kelvin Cross Sections

69-Tm-162



10

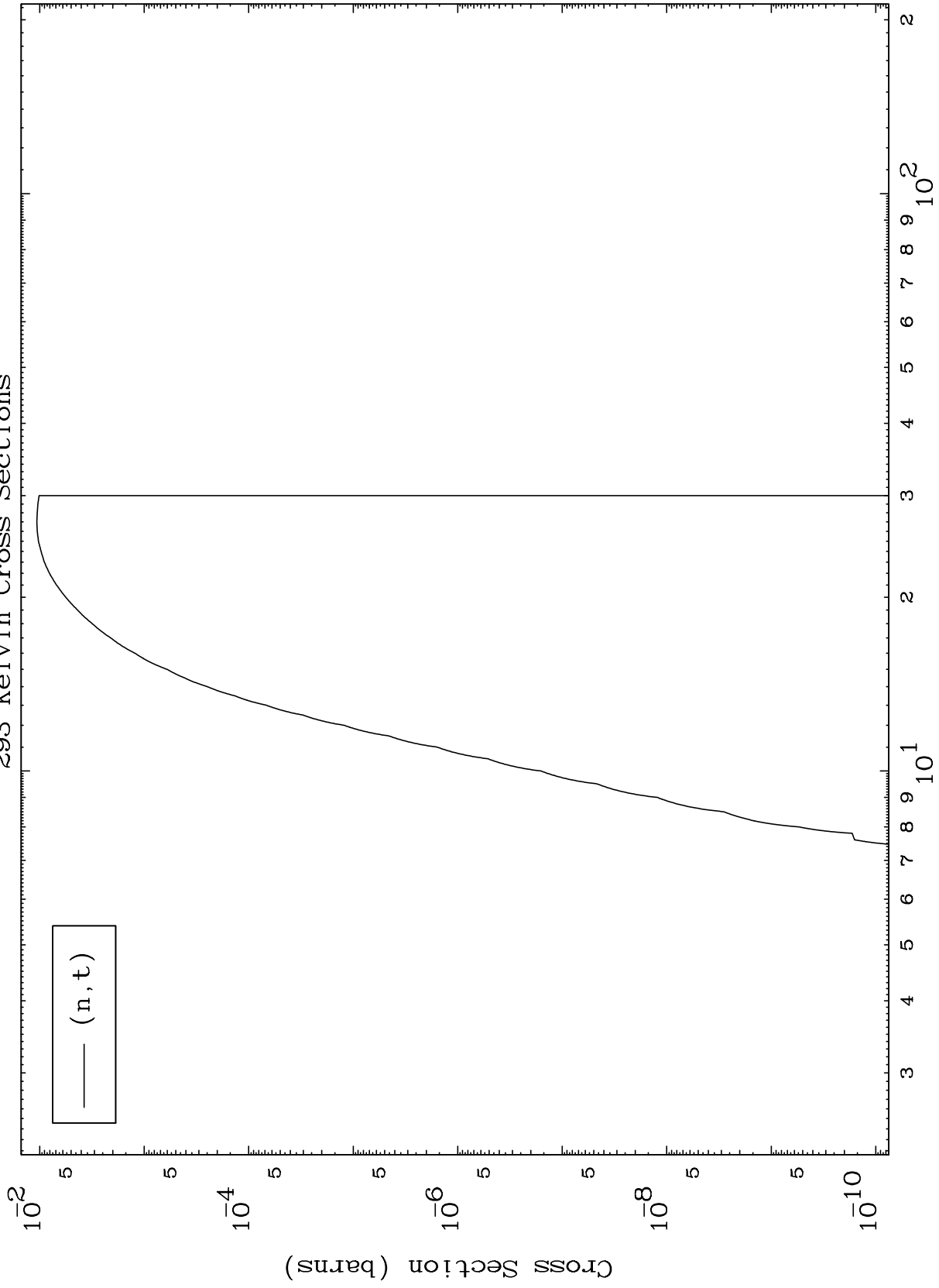
Incident Energy (MeV)

69-Tm-162

MAT 6904

(n,t) Levels  
293 Kelvin Cross Sections

69-Tm-162



11

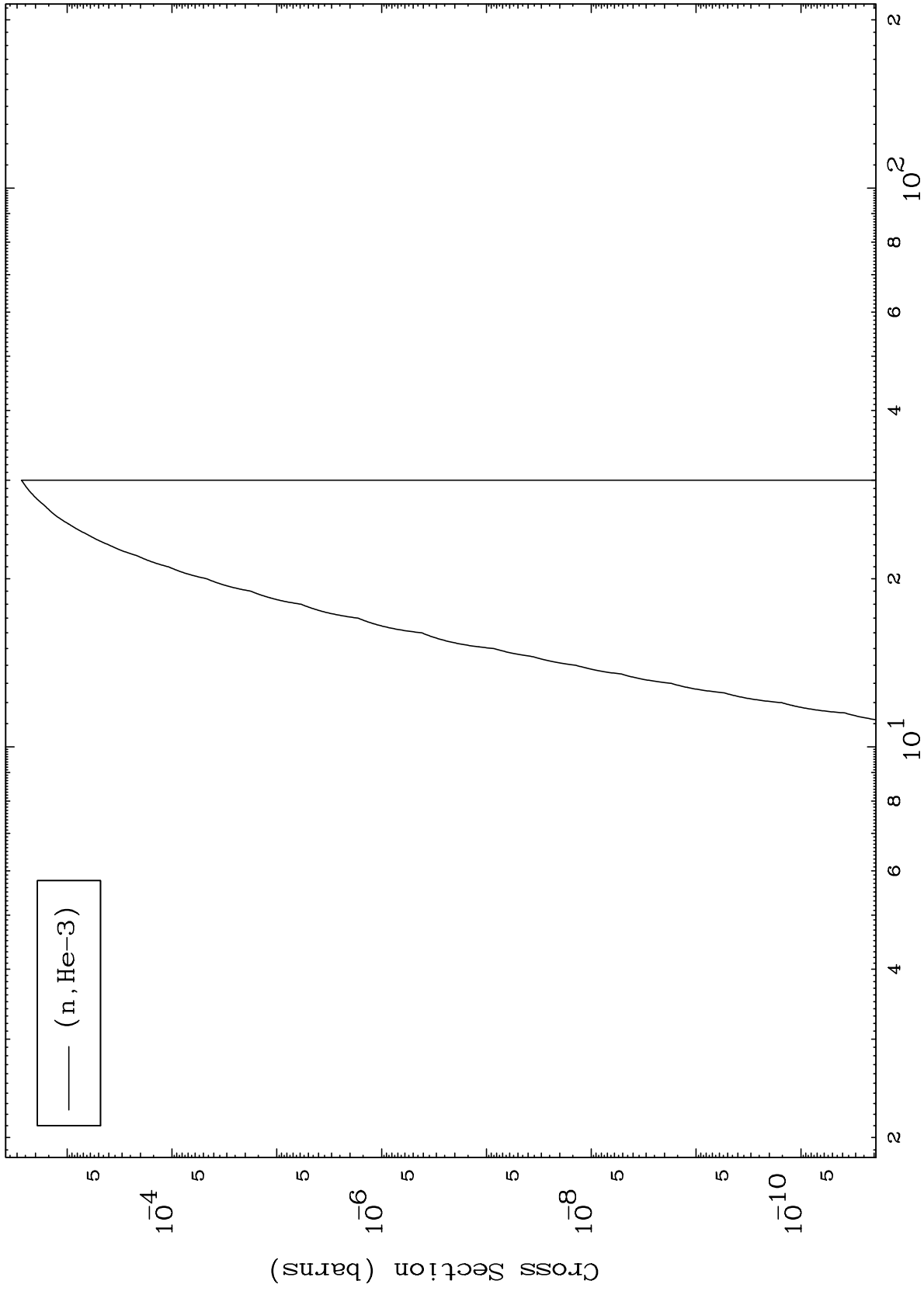
Incident Energy (MeV)

69-Tm-162

MAT 6904

(n,He3) Levels  
293 Kelvin Cross Sections

69-Tm-162



12

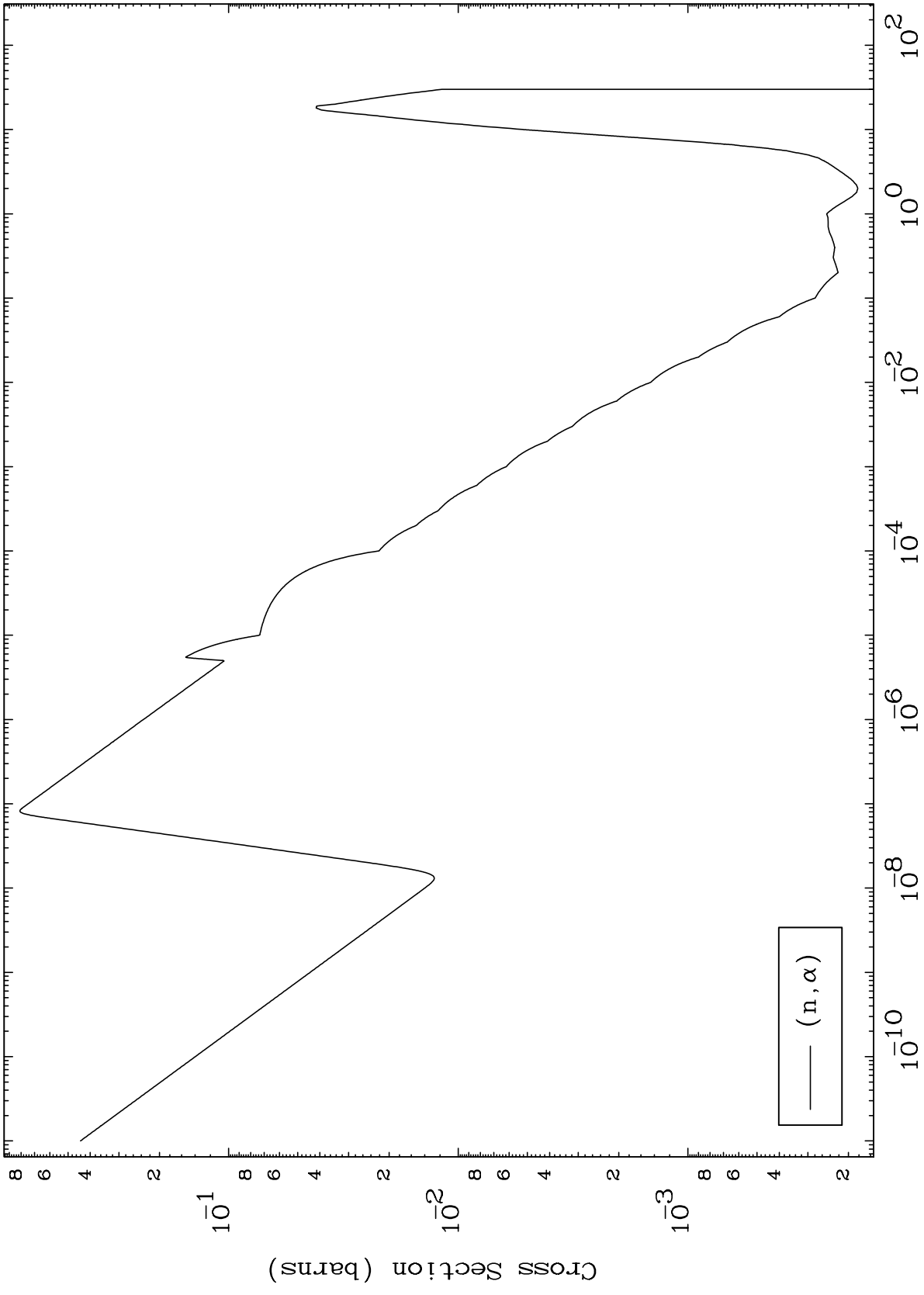
Incident Energy (MeV)

69-Tm-162

MAT 6904

(n,α) Levels  
293 Kelvin Cross Sections

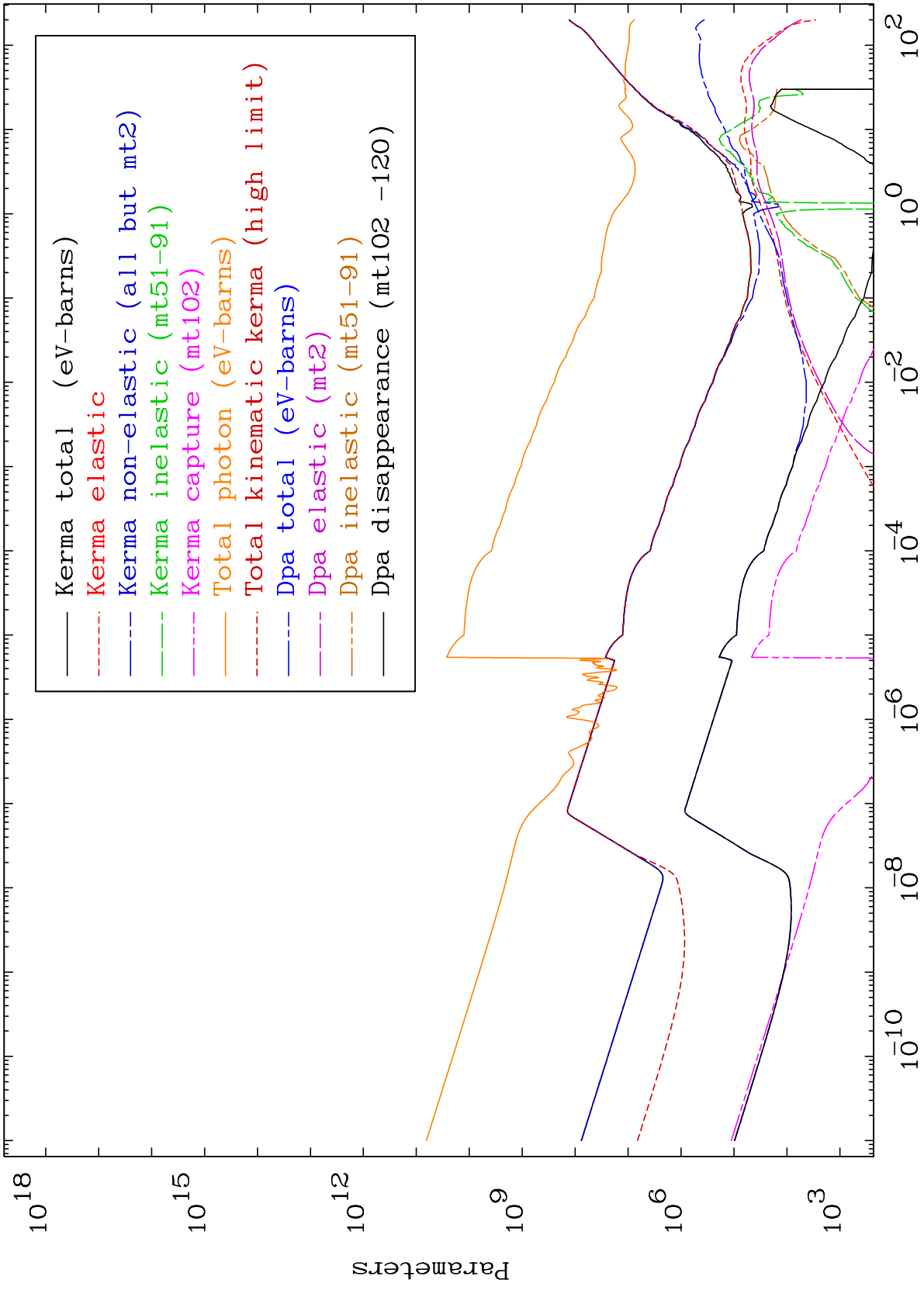
69-Tm-162



13

Incident Energy (MeV)

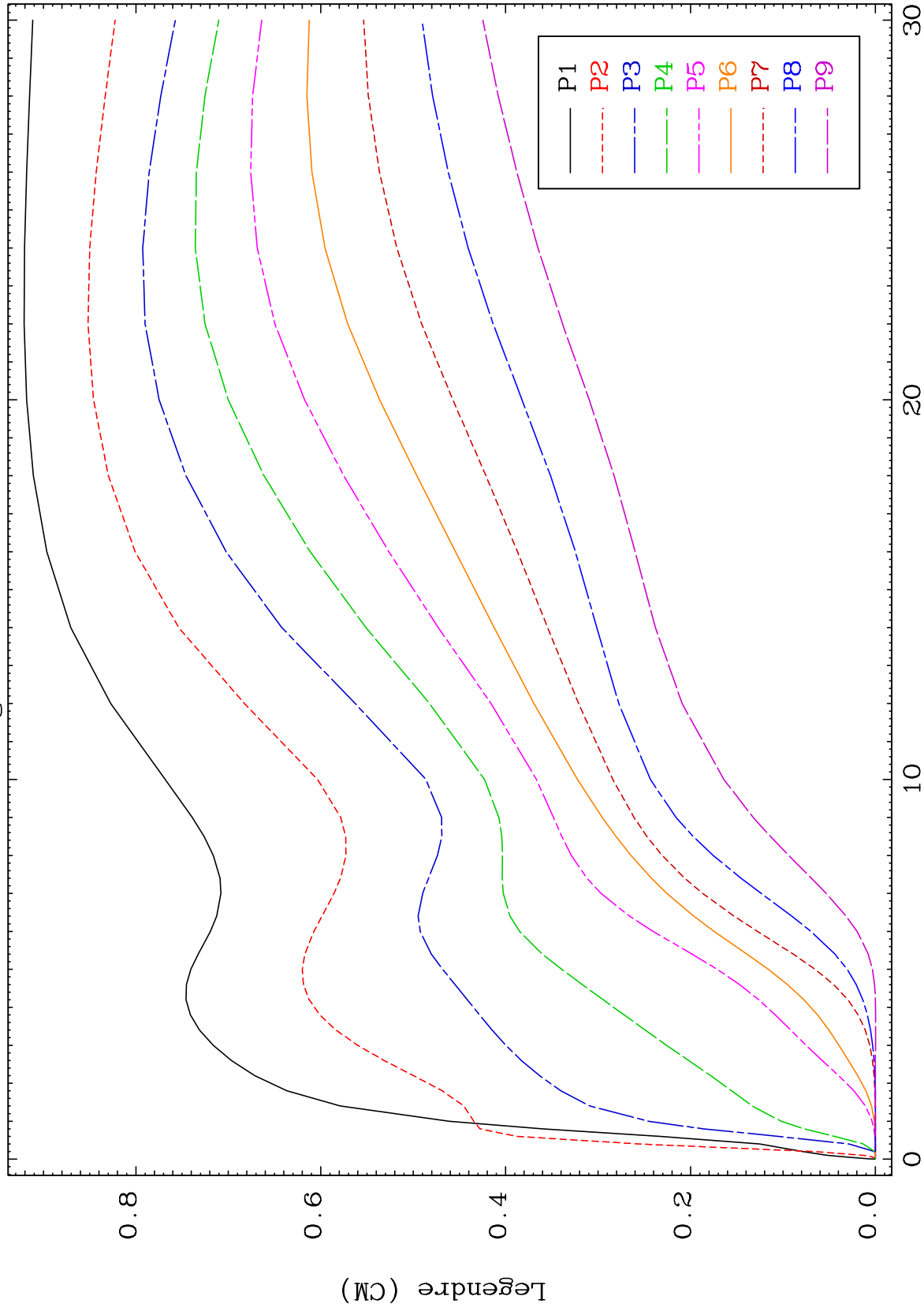
69-Tm-162



MAT 6904

Elastic Legendre Coefficients

69-Tm-162



15

Incident Energy (MeV)

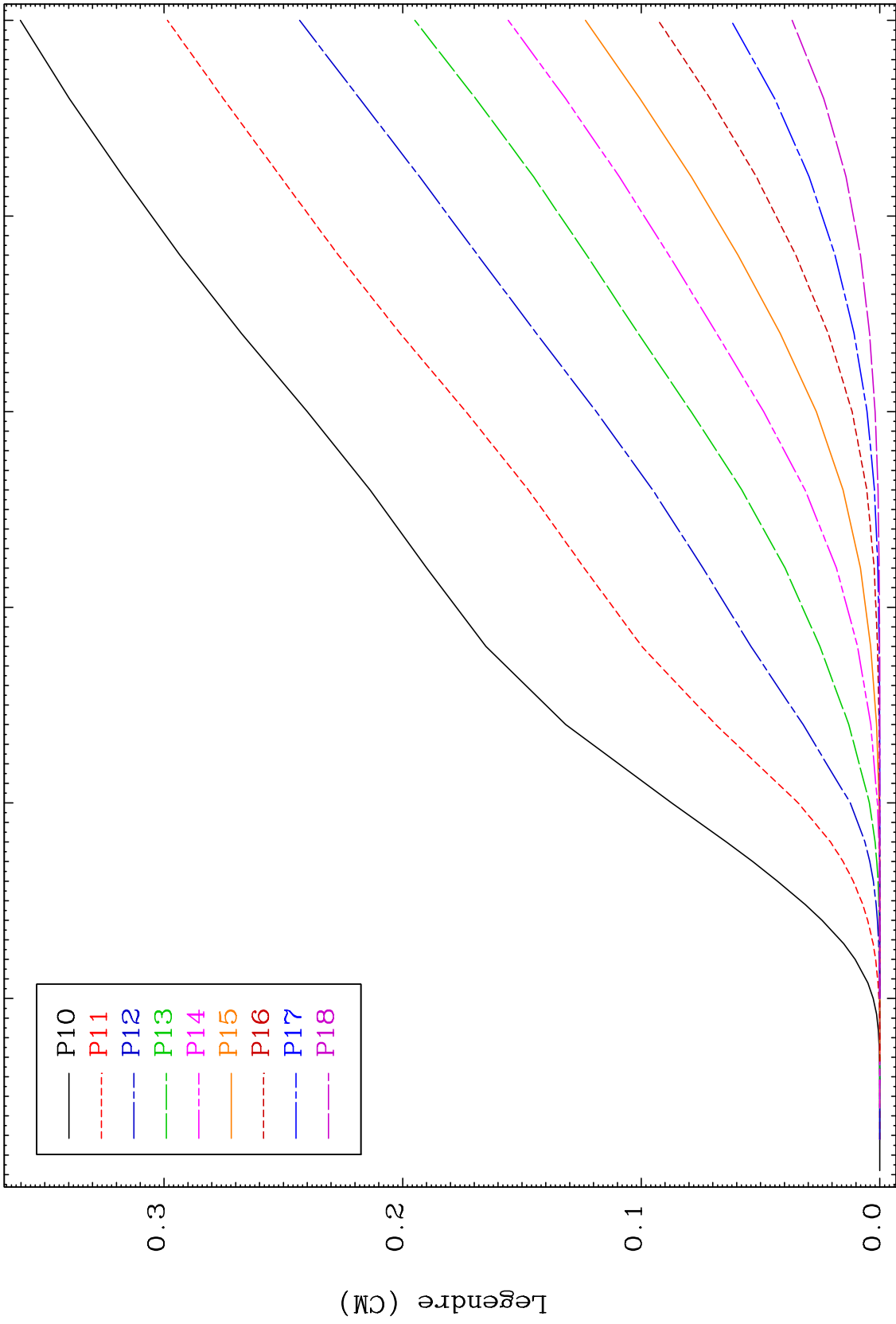
69-Tm-162



MAT 6904

Elastic Legendre Coefficients

69-Tm-162



16

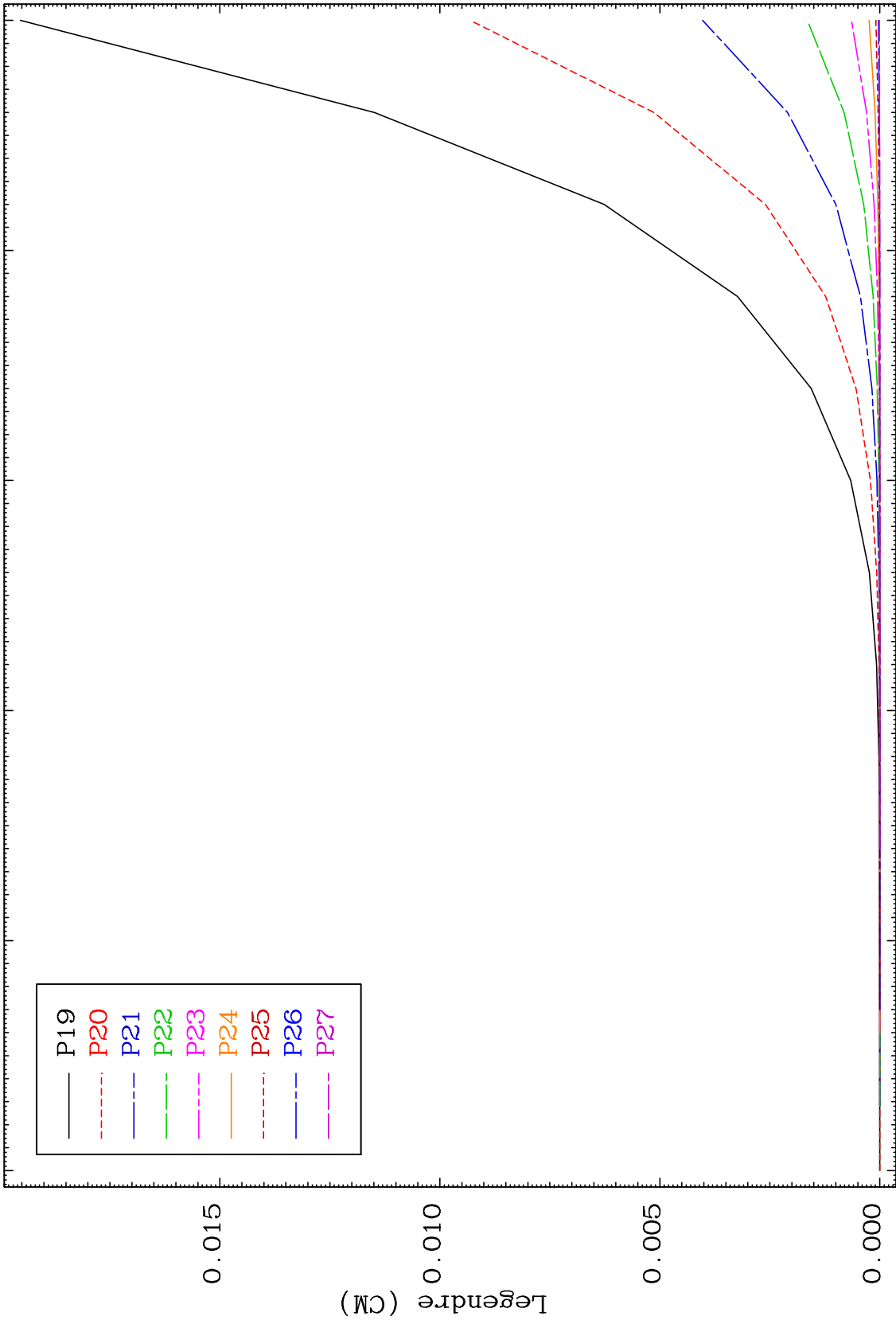
Incident Energy (MeV)

69-Tm-162

MAT 6904

### Elastic Legendre Coefficients

69-Tm-162



17

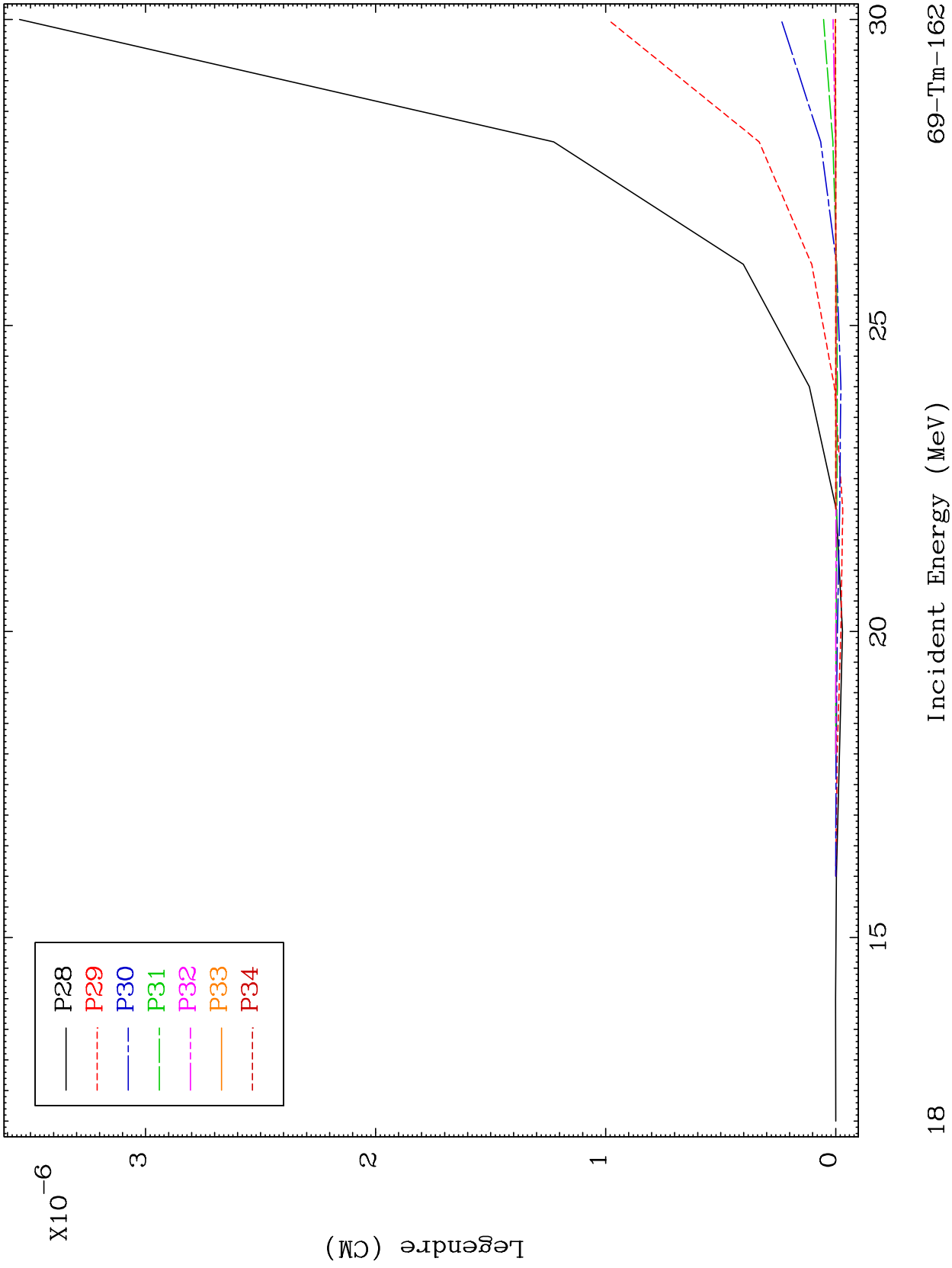
Incident Energy (MeV)

69-Tm-162

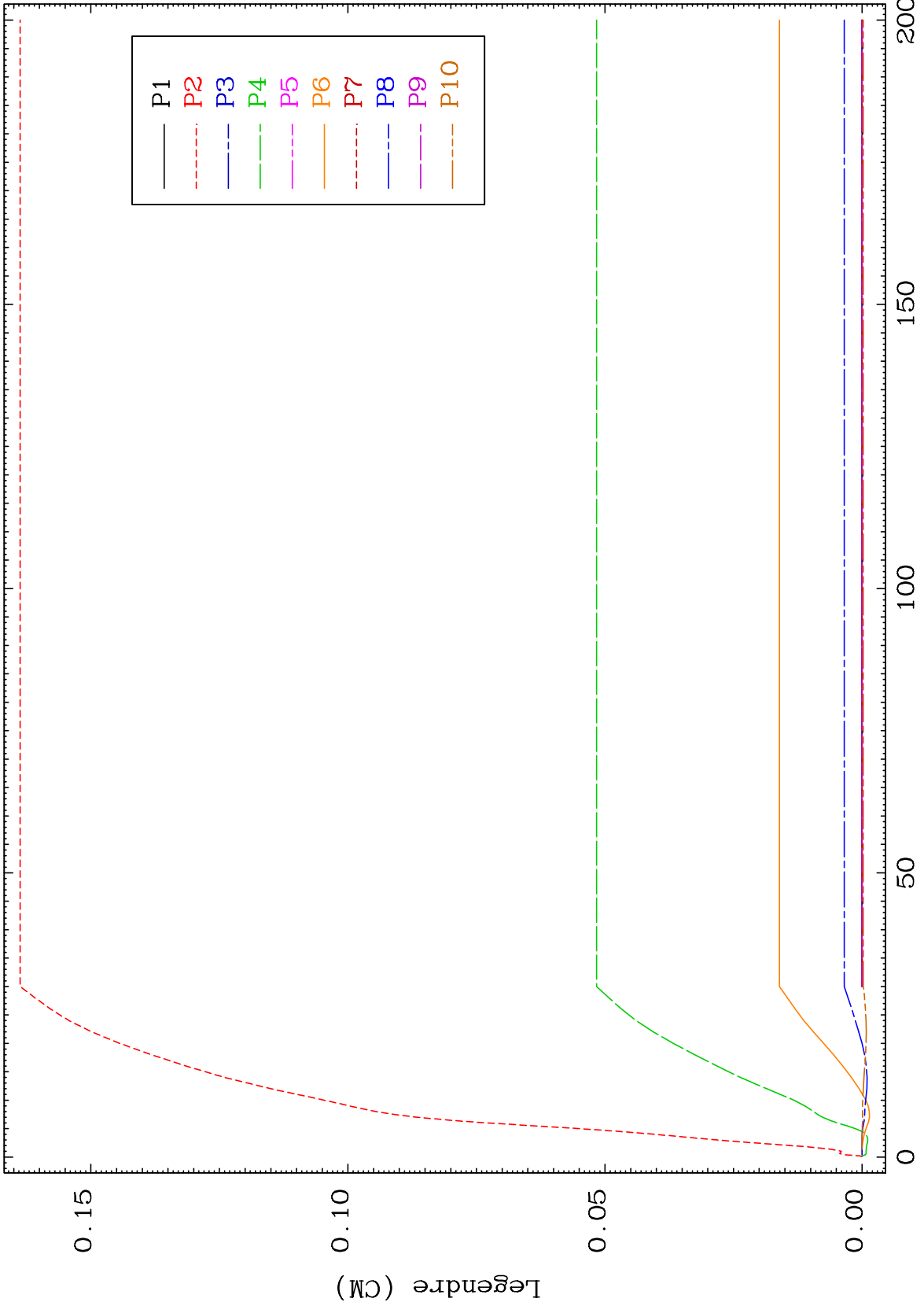
MAT 6904

Elastic Legendre Coefficients

69-Tm-162



MAT 6904 MT= 51 (n,n') Level Legendre Coefficients 69-Tm-162

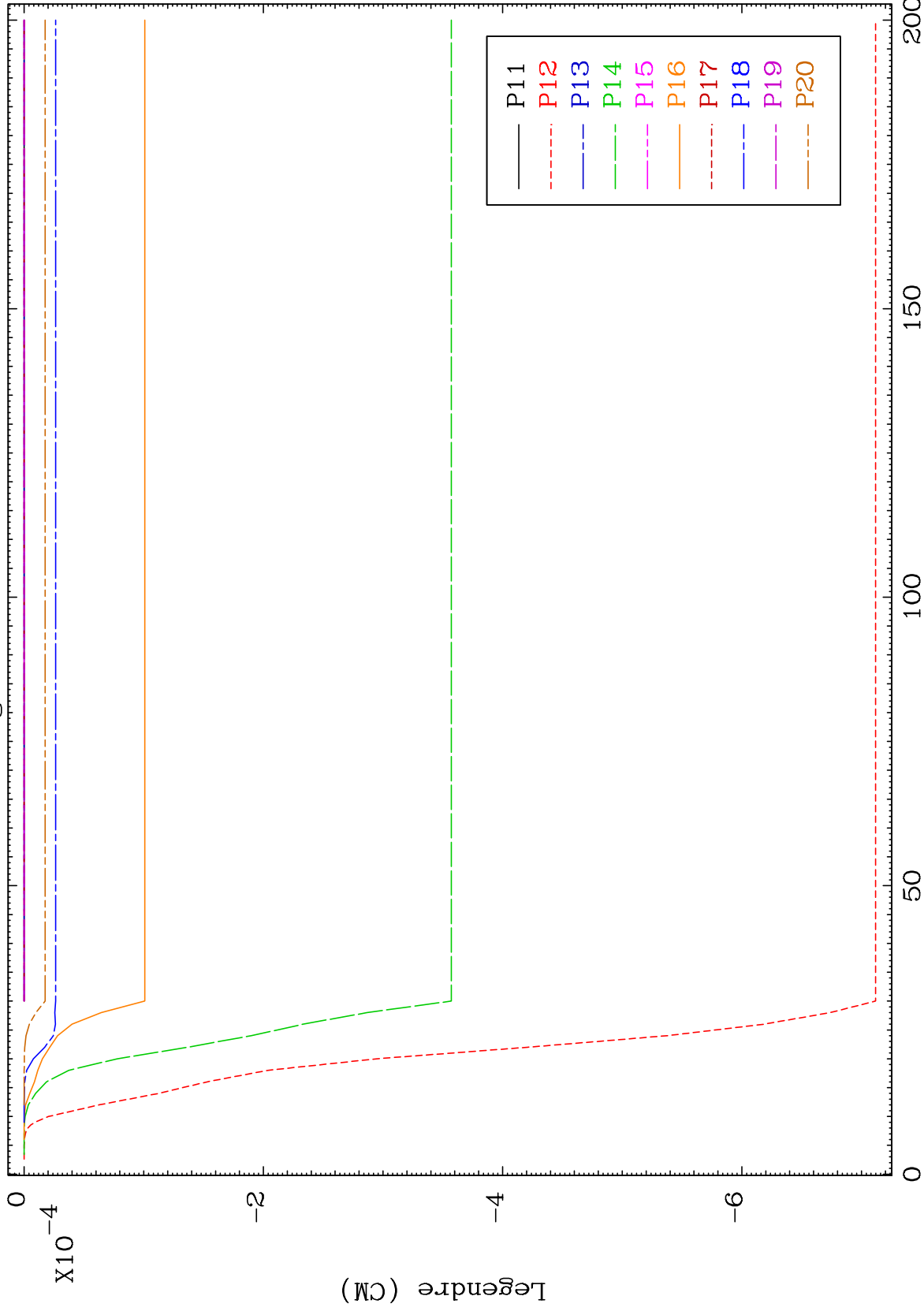


19 Incident Energy (MeV) 69-Tm-162

MAT 6904

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

69-Tm-162



69-Tm-162

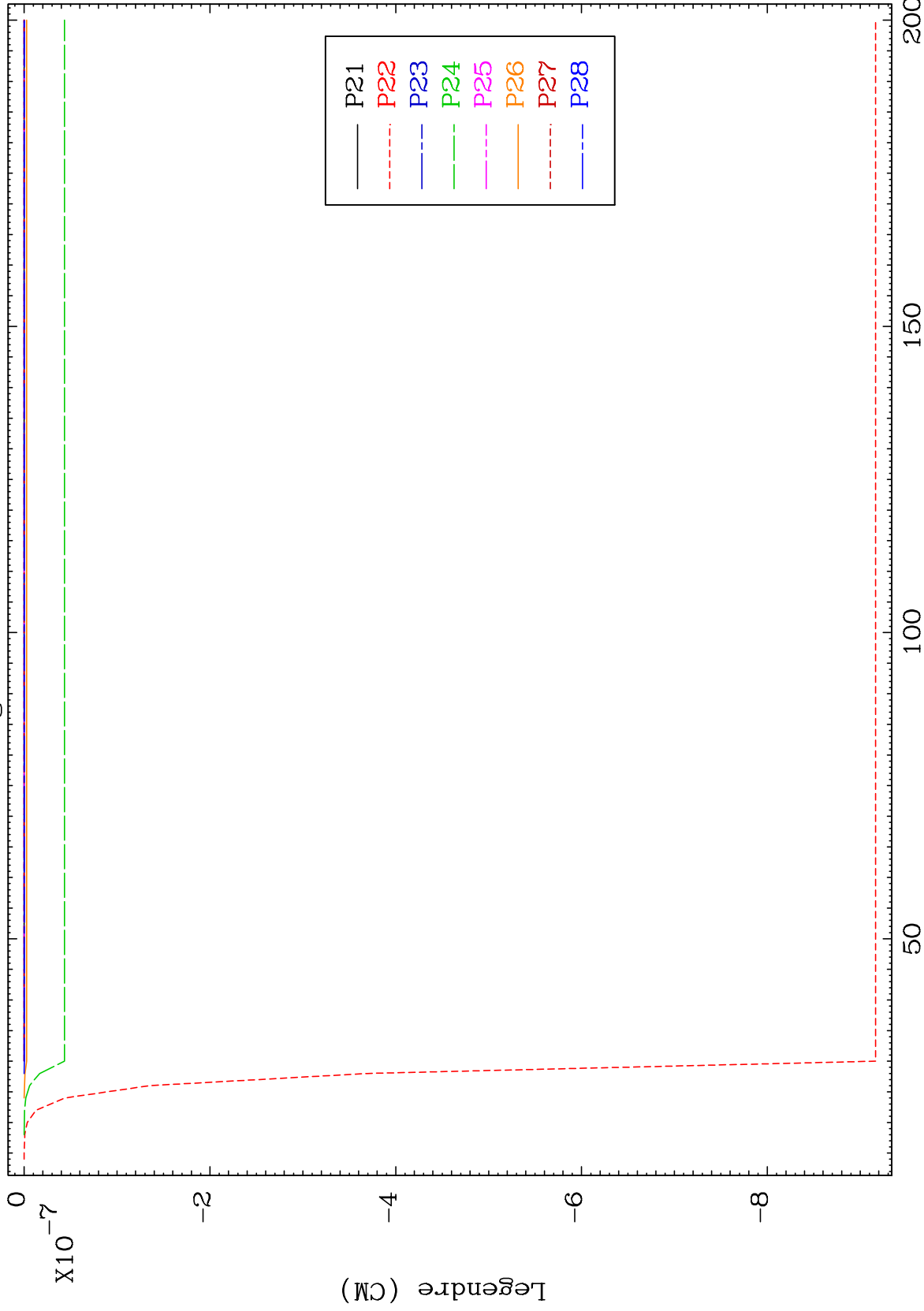
Incident Energy (MeV)

20

MAT 6904

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

69-Tm-162

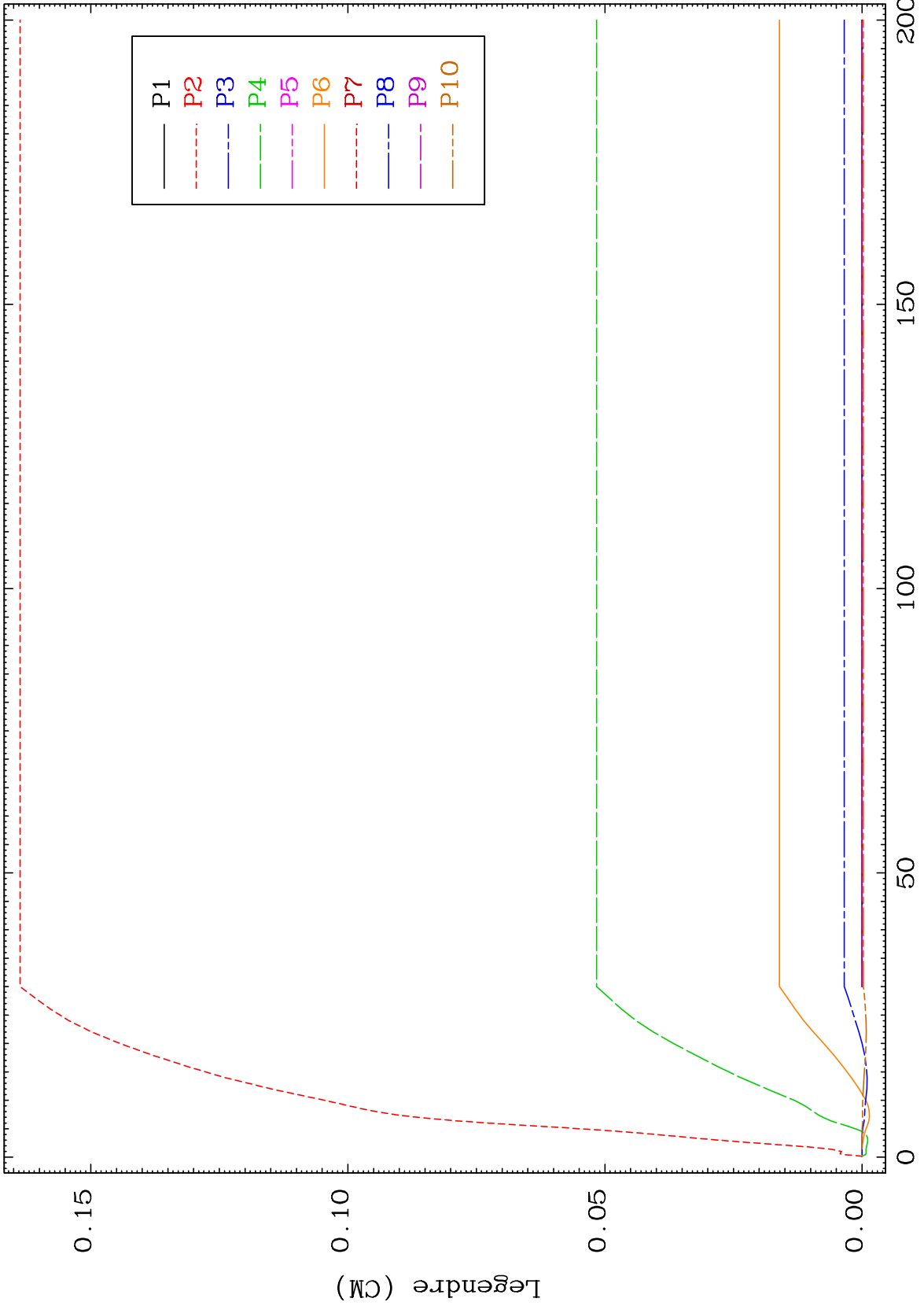


69-Tm-162

Incident Energy (MeV)

21

MAT 6904 MT= 52 (n,n') Level Legendre Coefficients 69-Tm-162

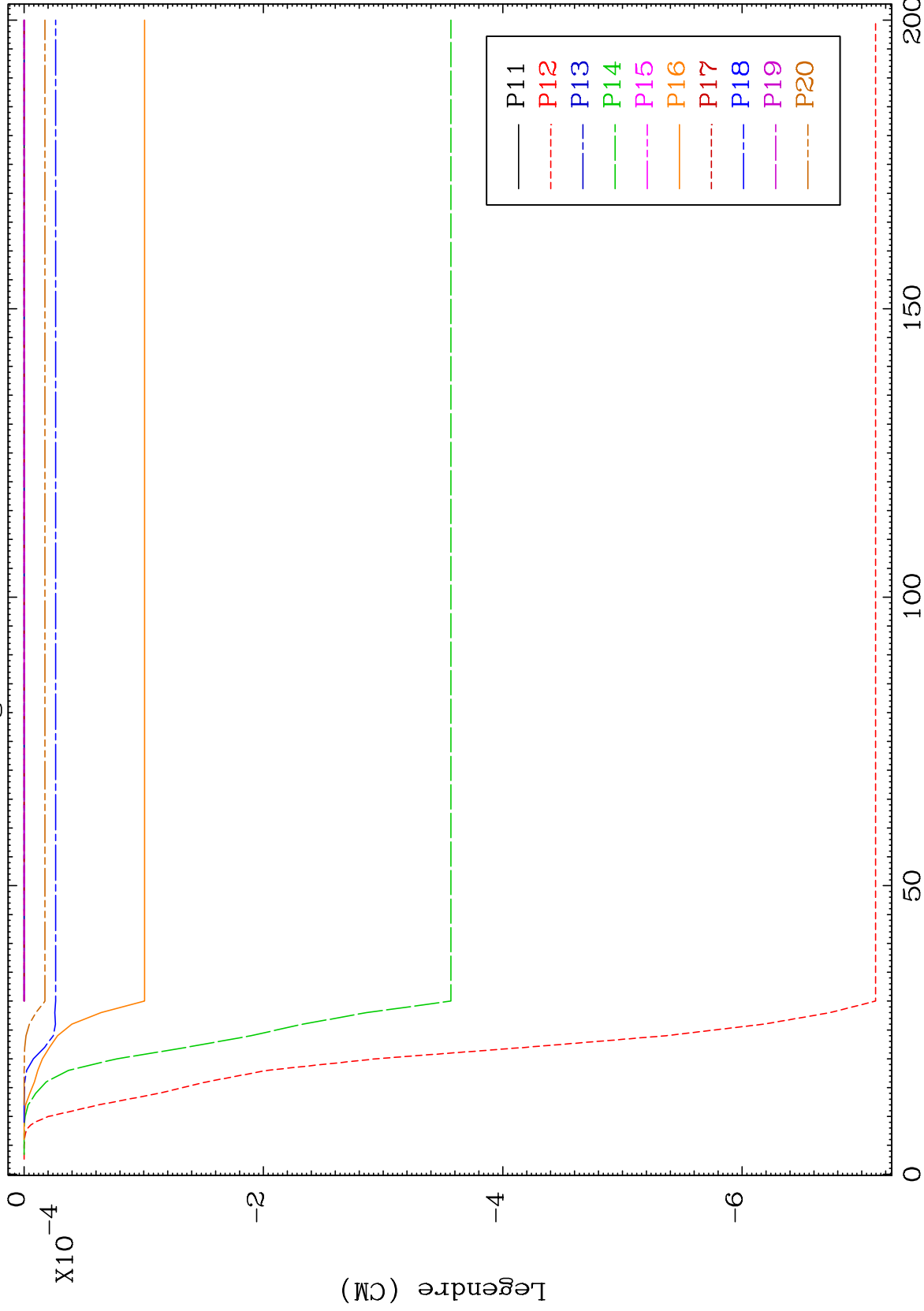


22 Incident Energy (MeV) 69-Tm-162

MAT 6904

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

69-Tm-162



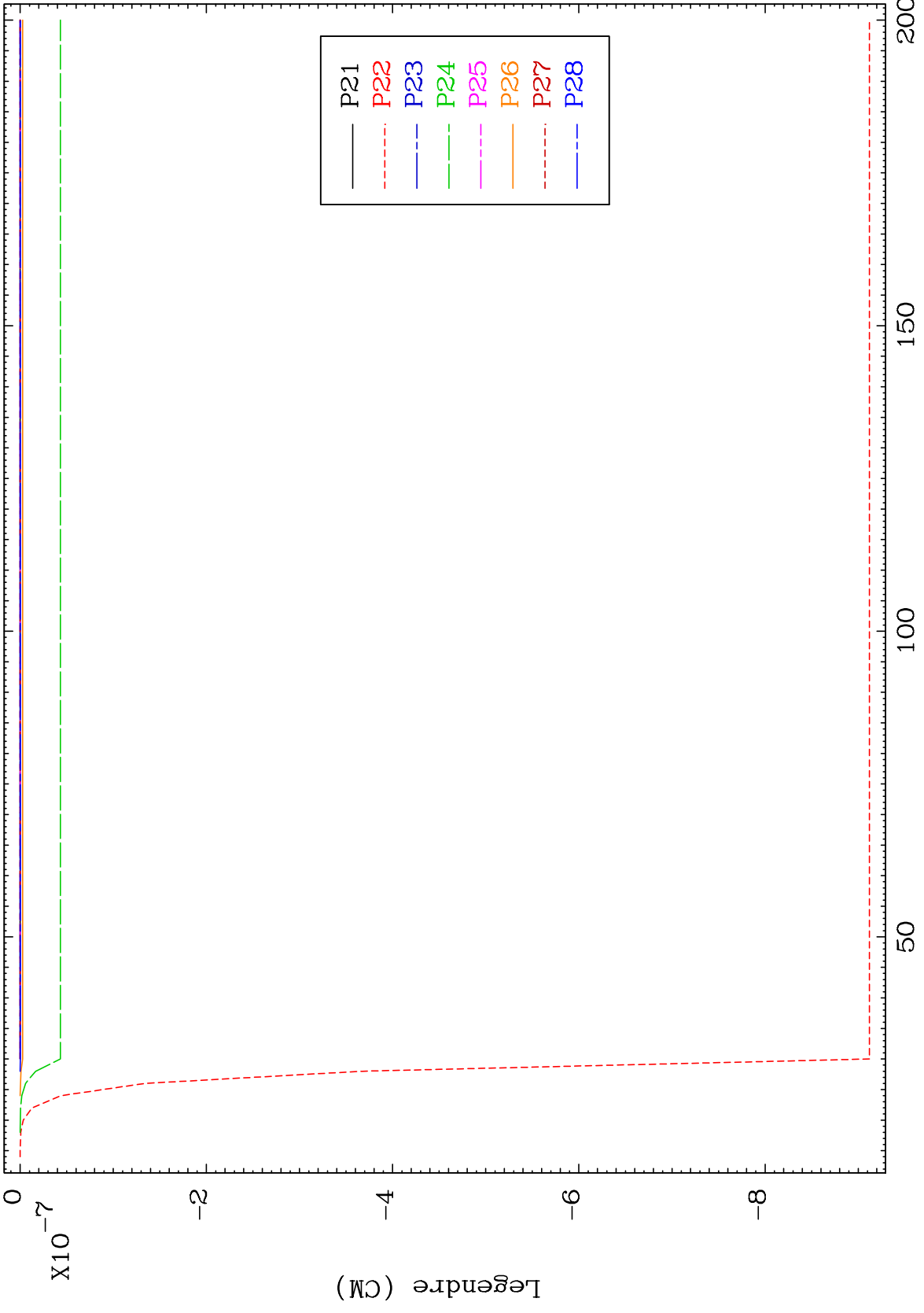
23

Incident Energy (MeV)

69-Tm-162



MAT 6904 MT= 52 (n,n') Level Legendre Coefficients 69-Tm-162

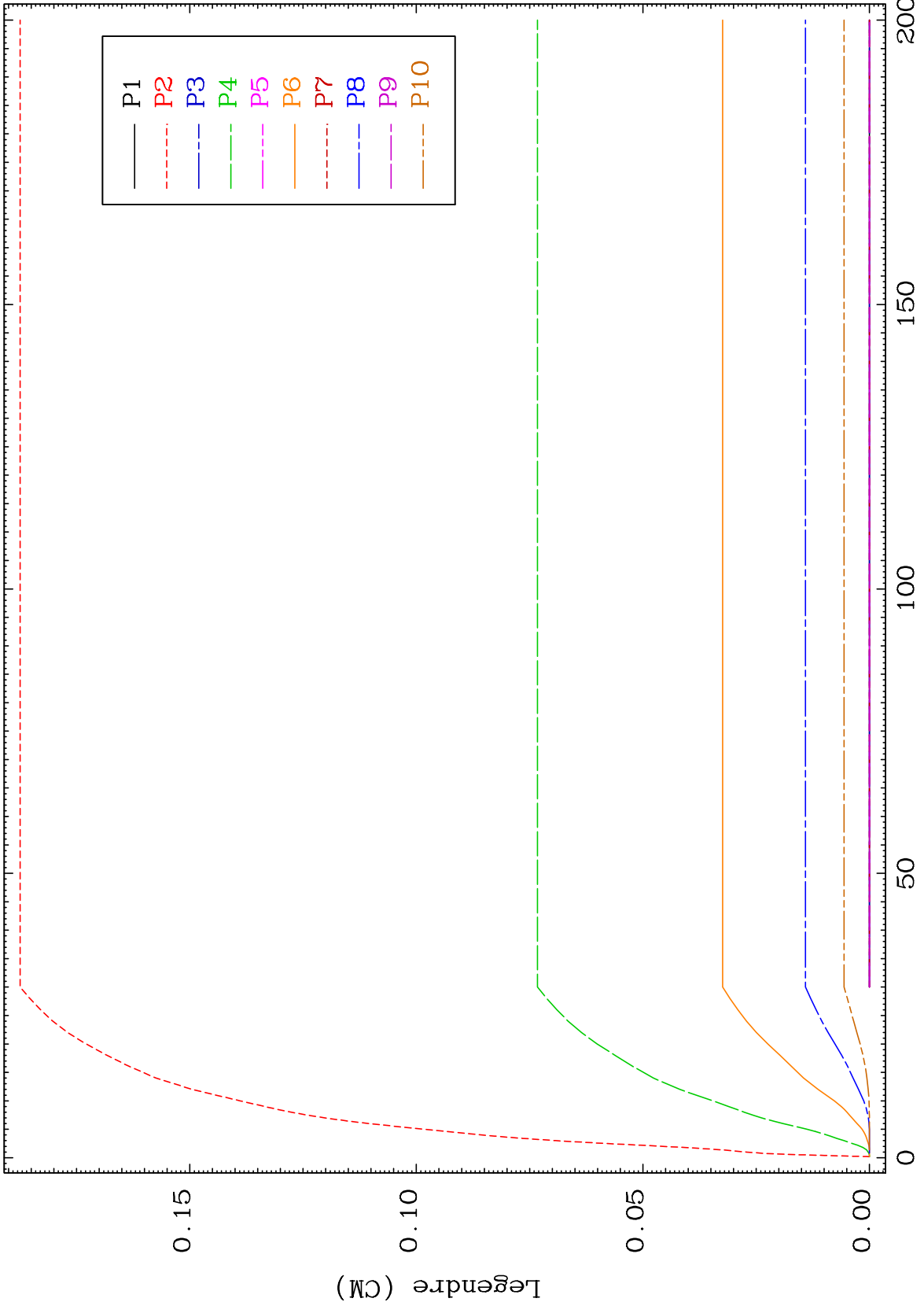


24 69-Tm-162

MAT 6904

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

69-Tm-162



69-Tm-162

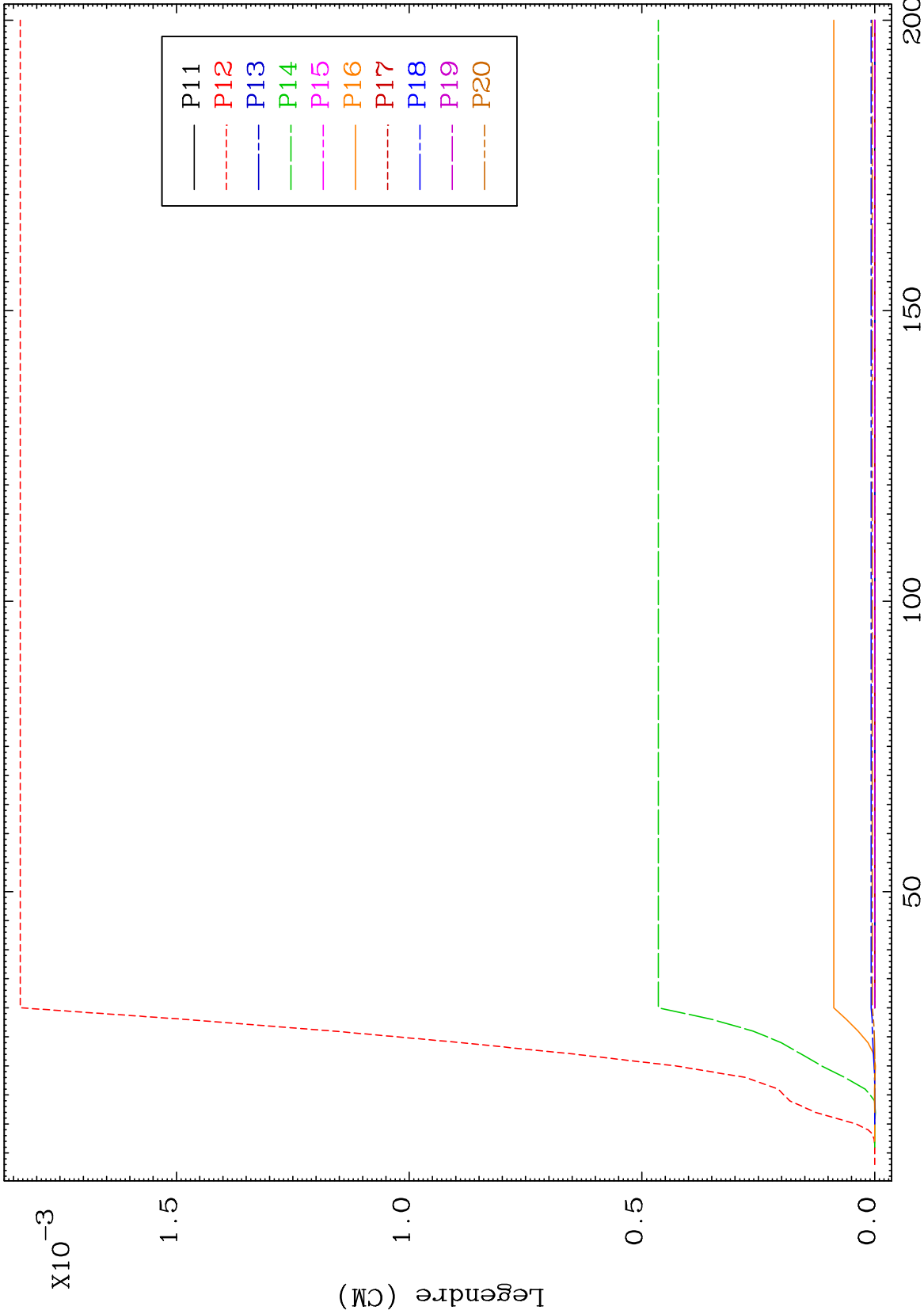
Incident Energy (MeV)

25

MAT 6904

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

69-Tm-162



26

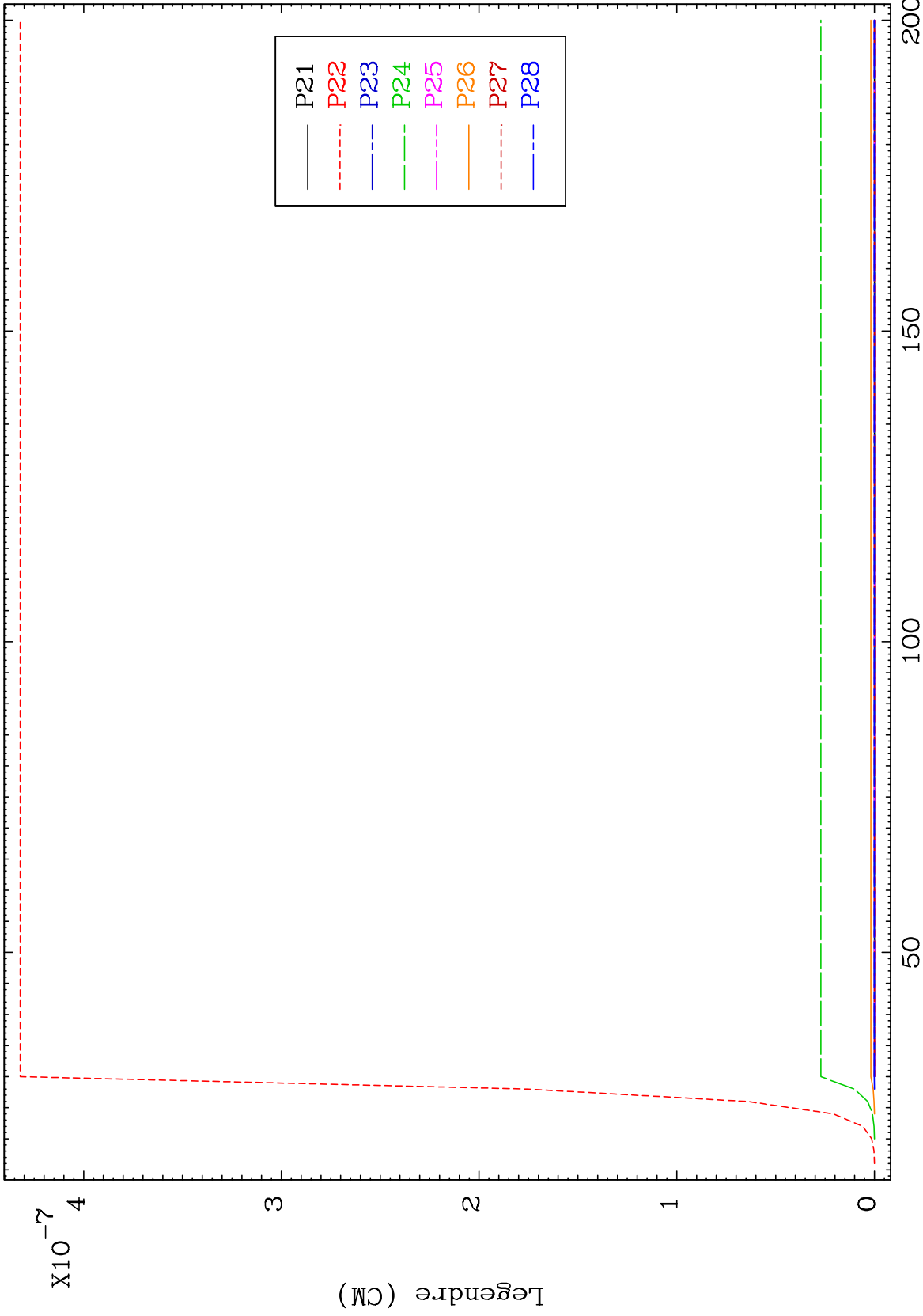
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



27

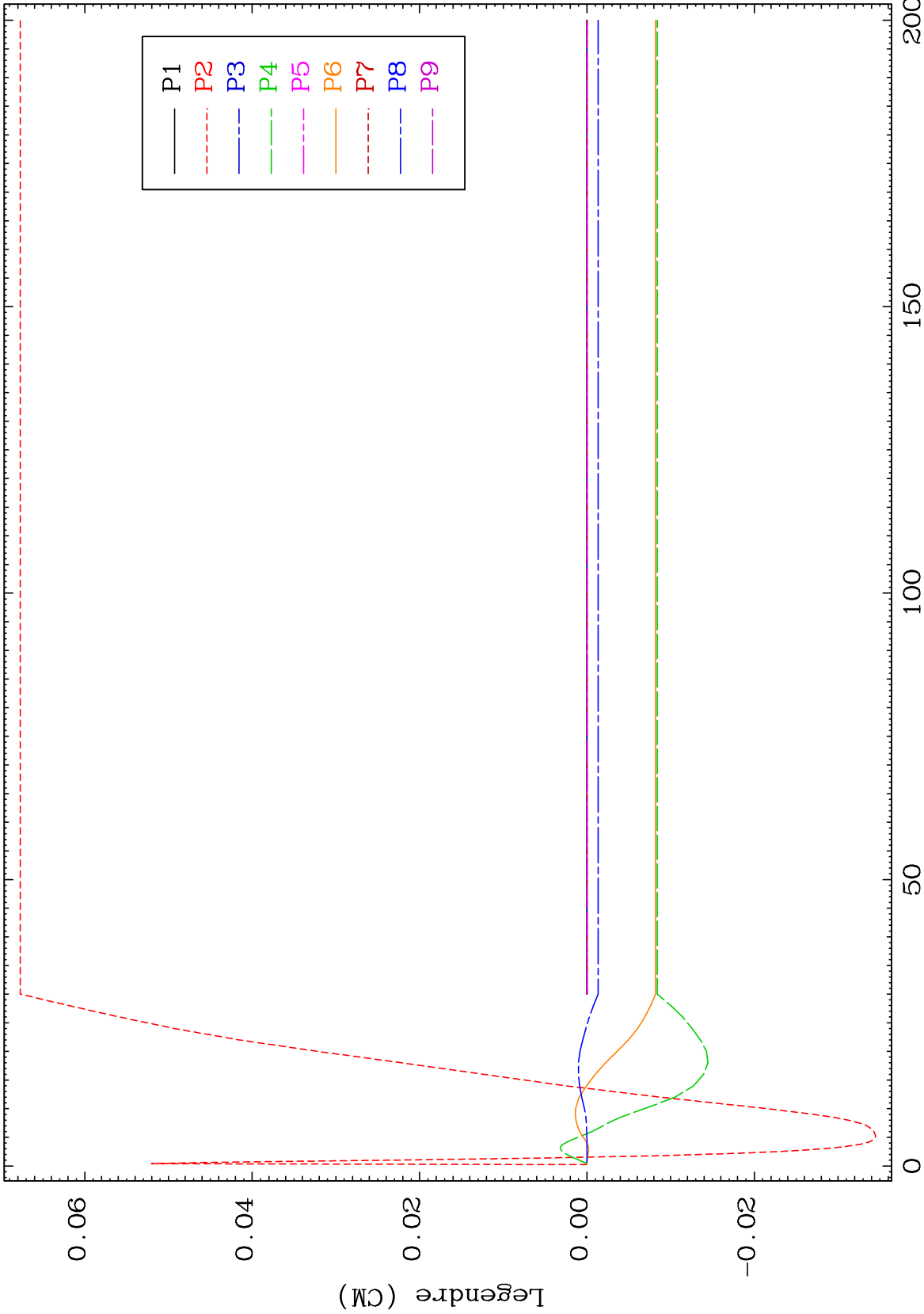
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



28

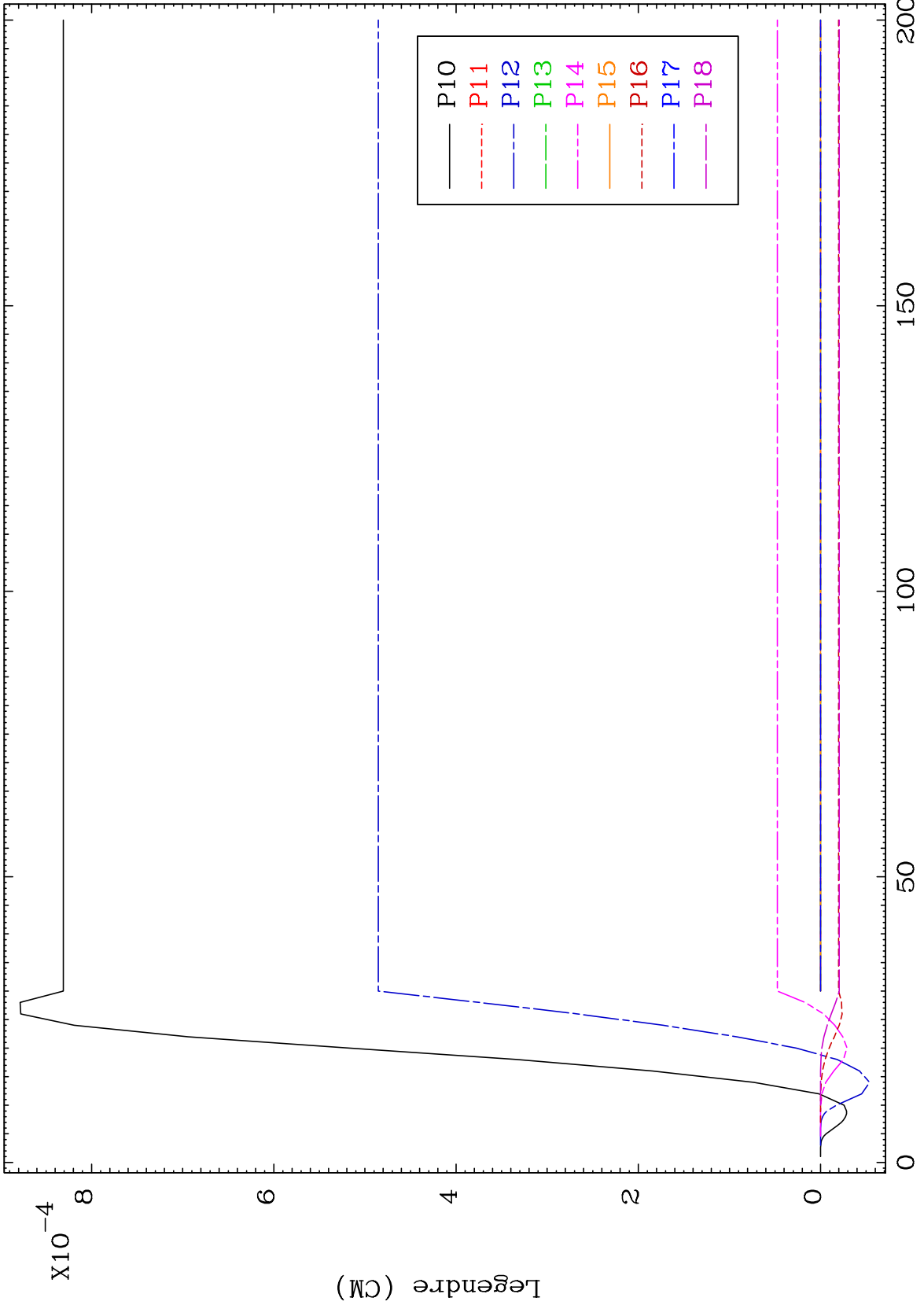
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



29

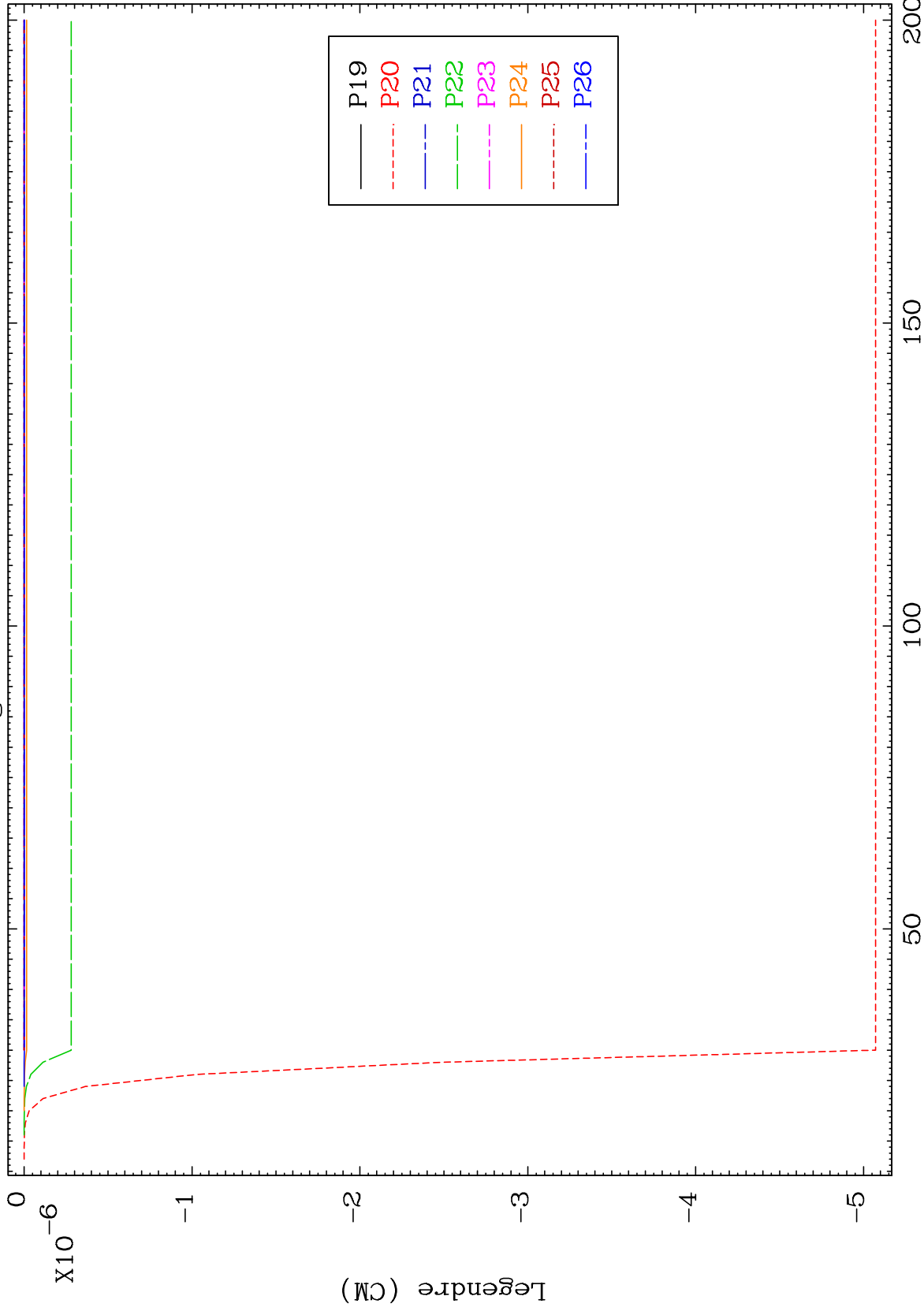
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



30

Incident Energy (MeV)

50

100

150

200

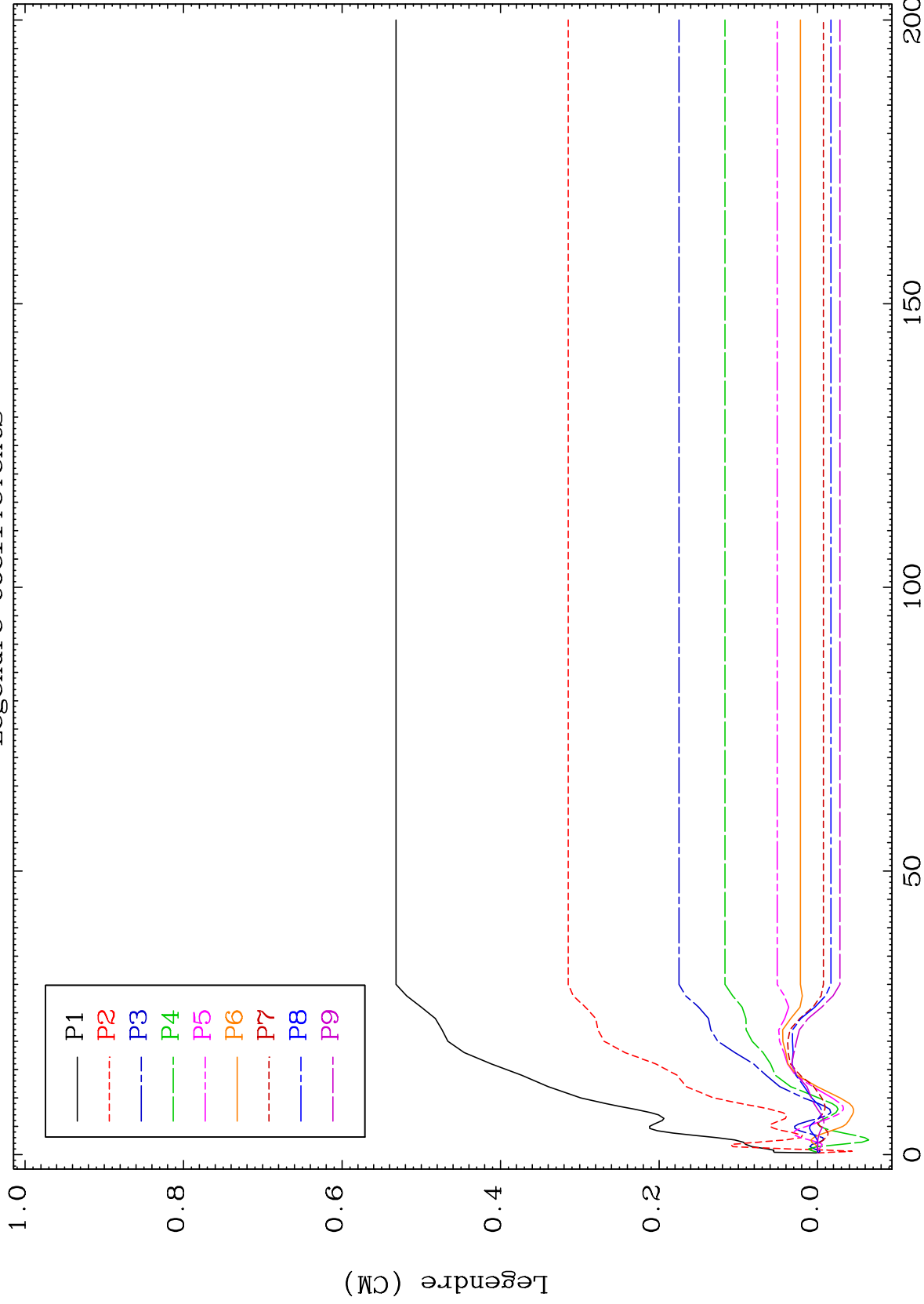
Legendre (CM)

$\times 10^{-6}$

MAT 6904

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

69-Tm-162



31

Incident Energy (MeV)

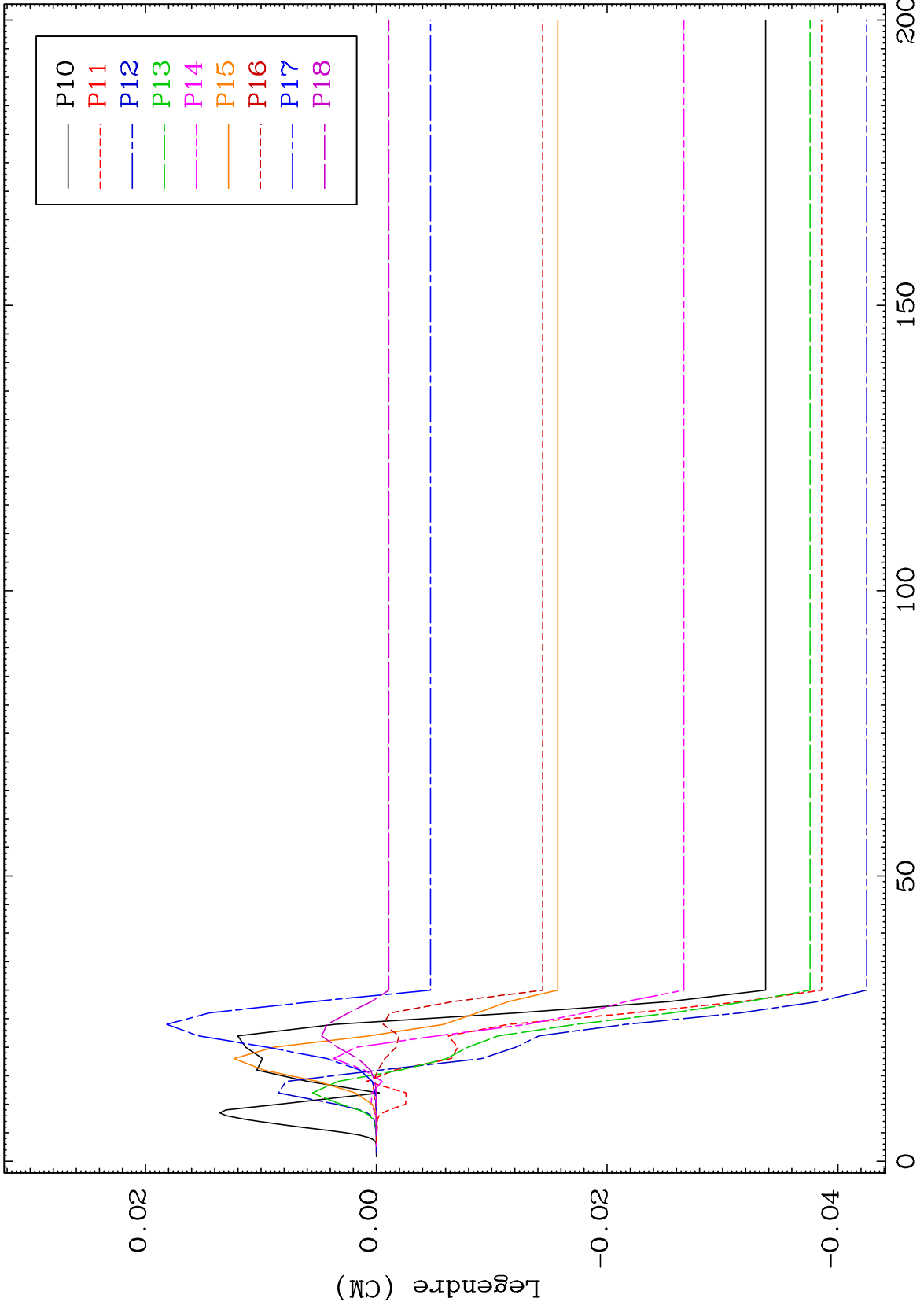
69-Tm-162



MAT 6904

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

69-Tm-162



32

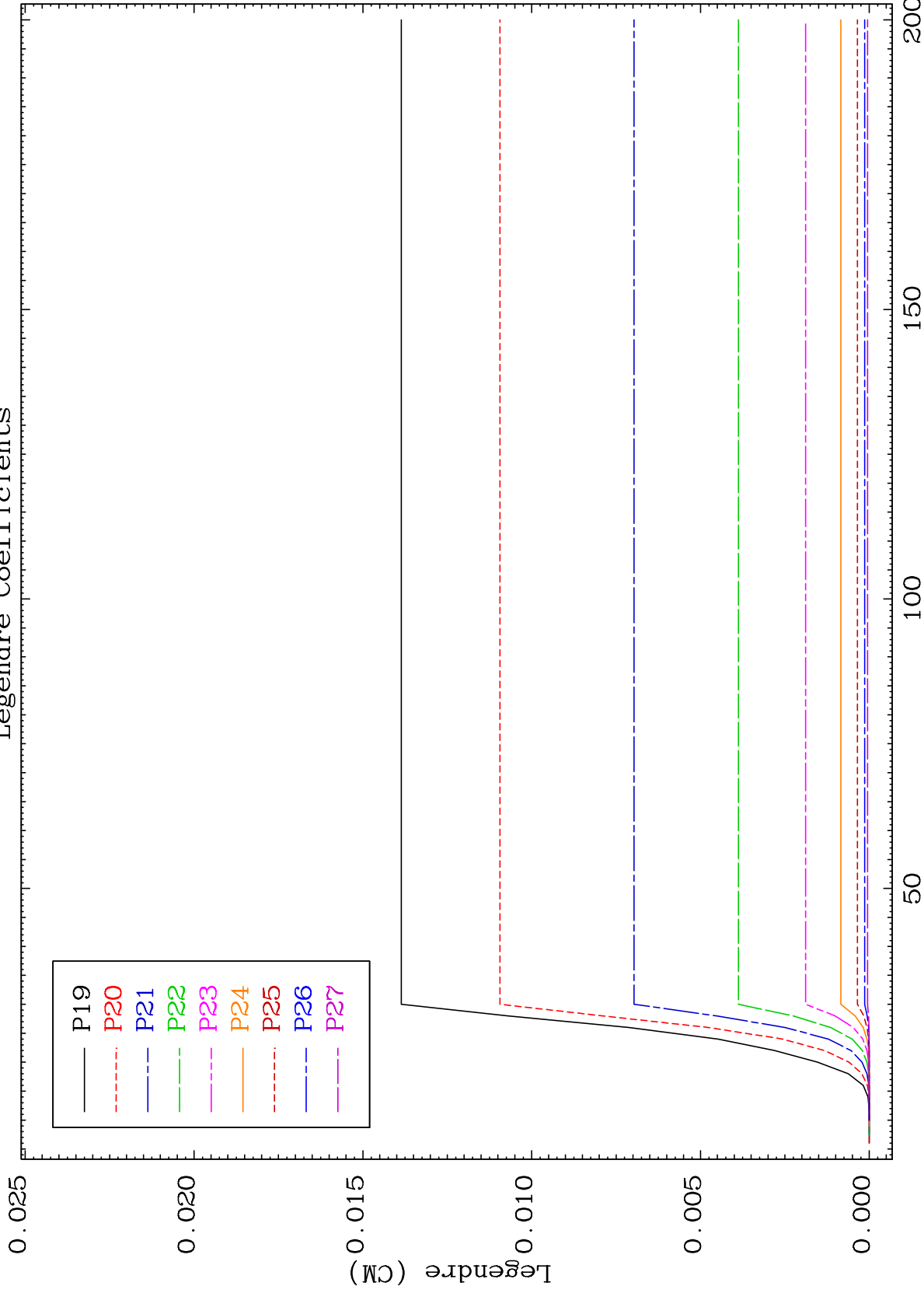
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162

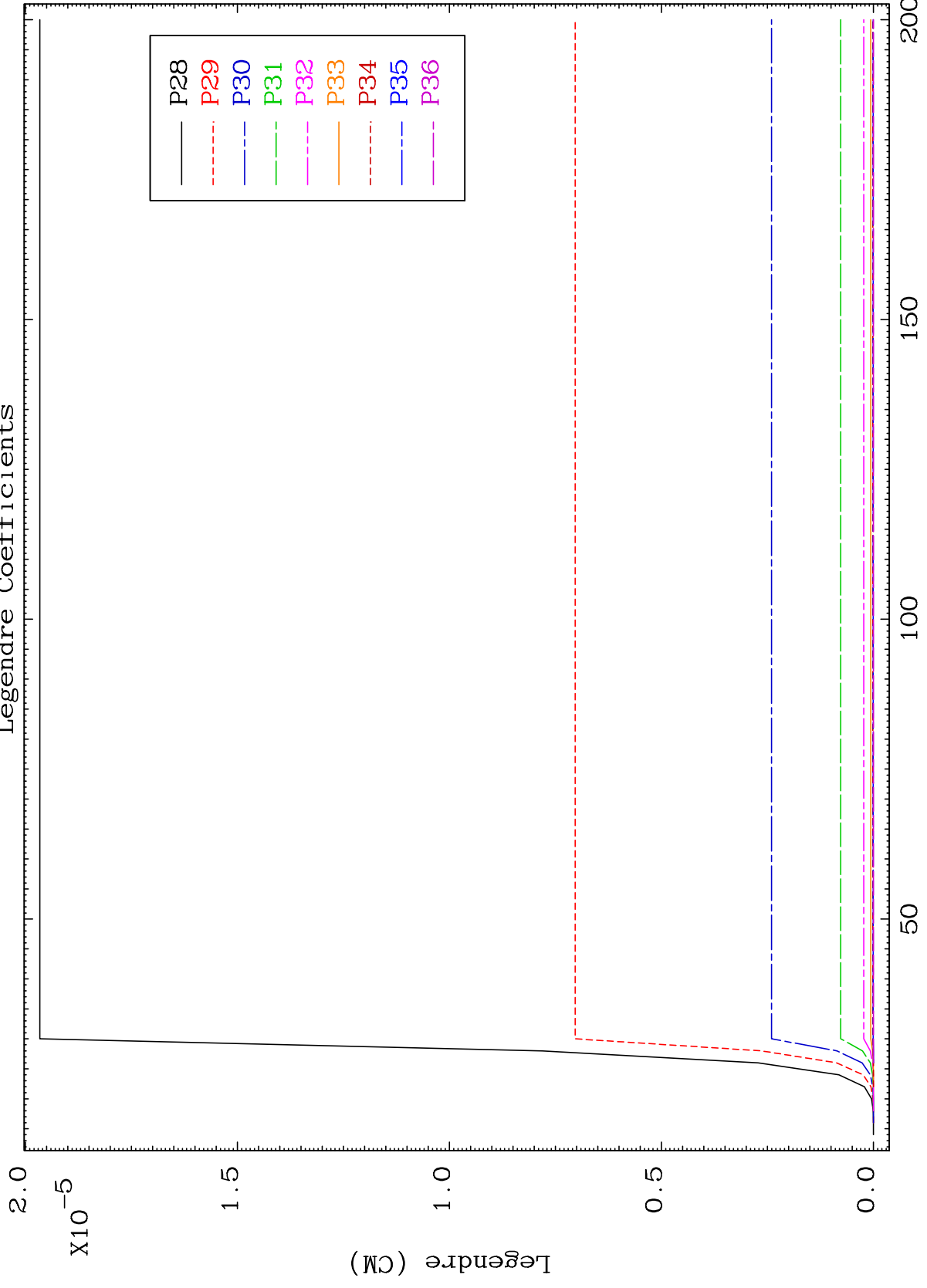


33

Incident Energy (MeV)

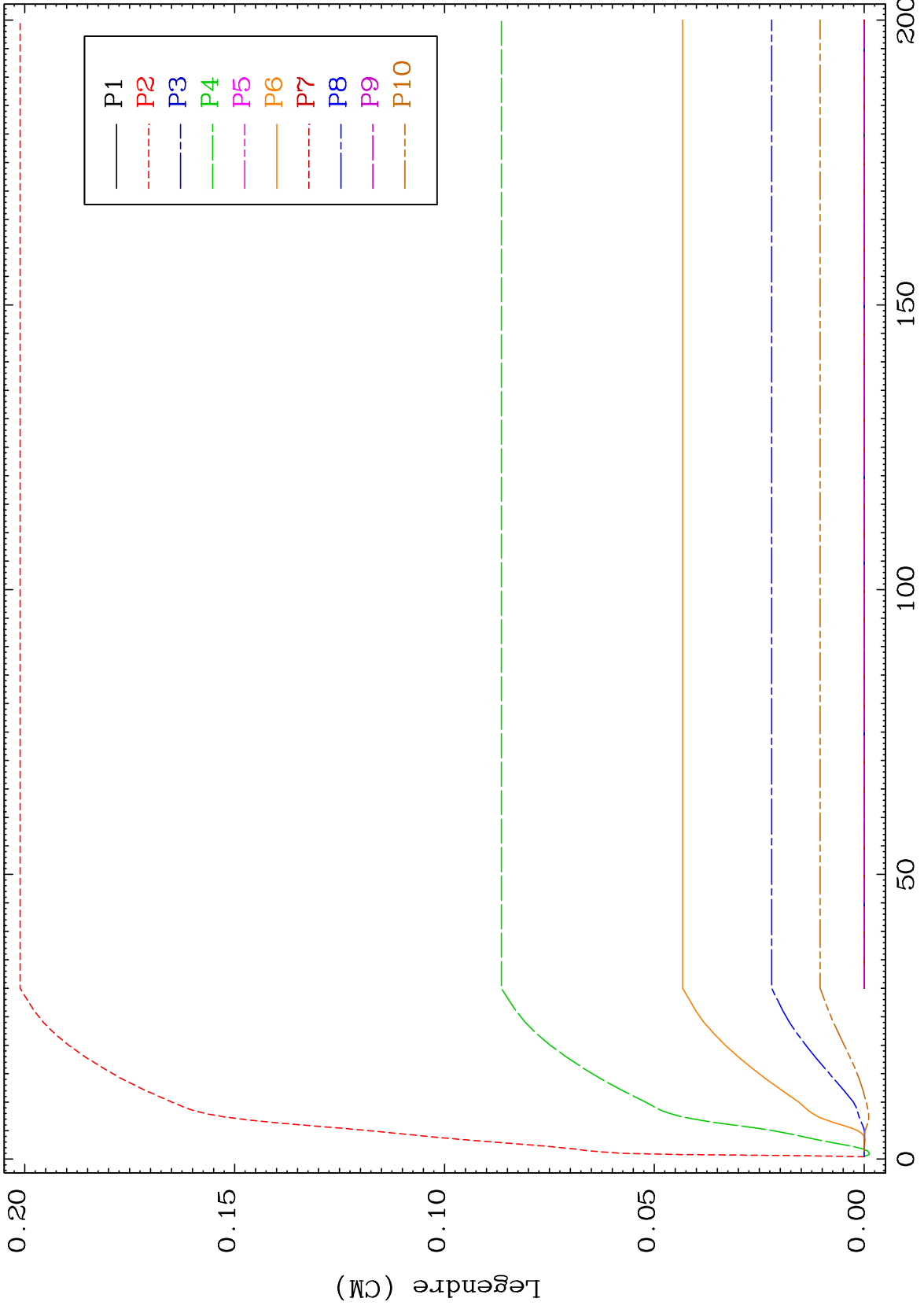
69-Tm-162

MAT 6904 MT= 55 (n,n') Level Legendre Coefficients 69-Tm-162



34 Incident Energy (MeV) 69-Tm-162

MAT 6904 MT= 56 (n,n') Level Legendre Coefficients 69-Tm-162

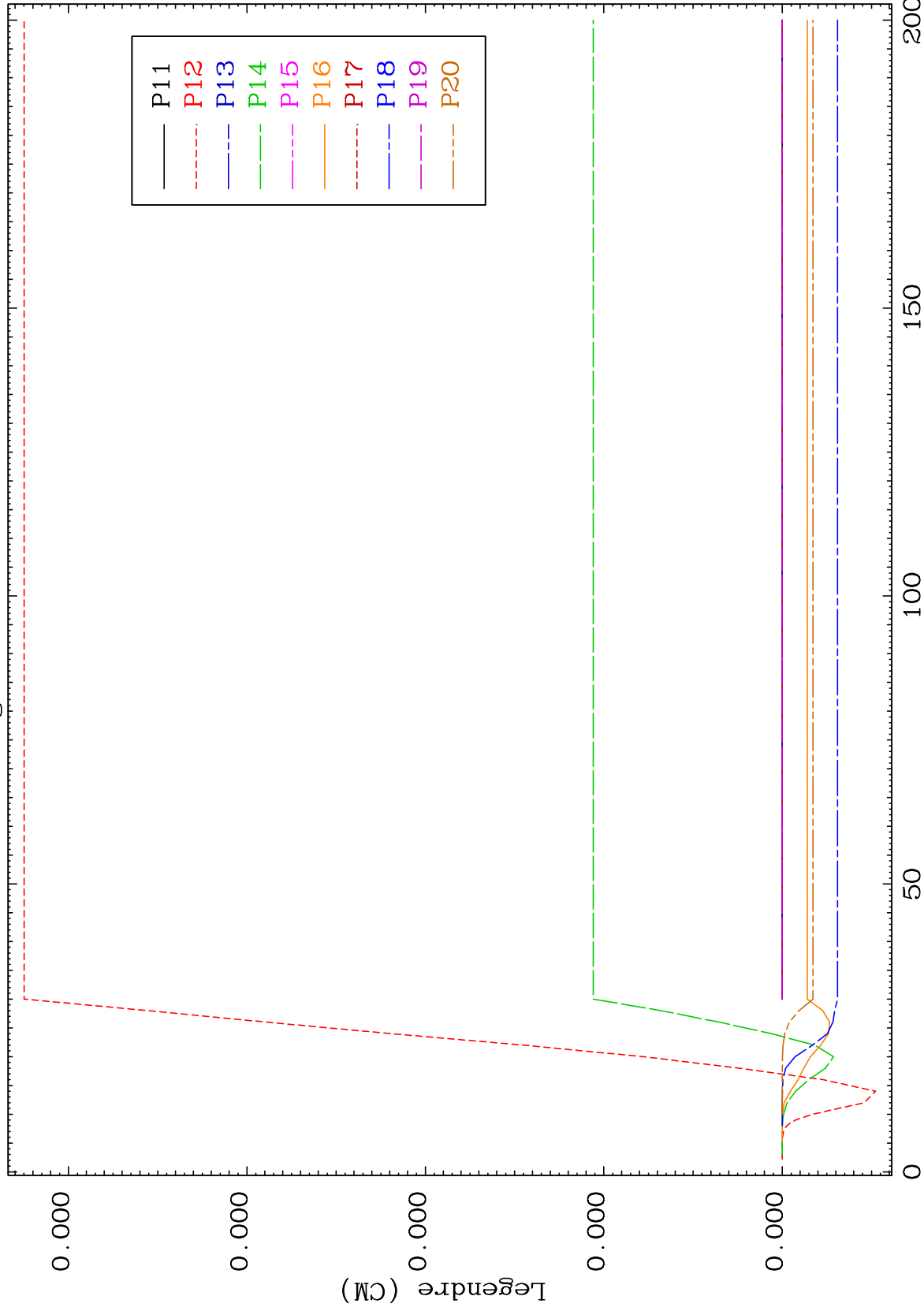


69-Tm-162 Incident Energy (MeV) 35

MAT 6904

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

69-Tm-162

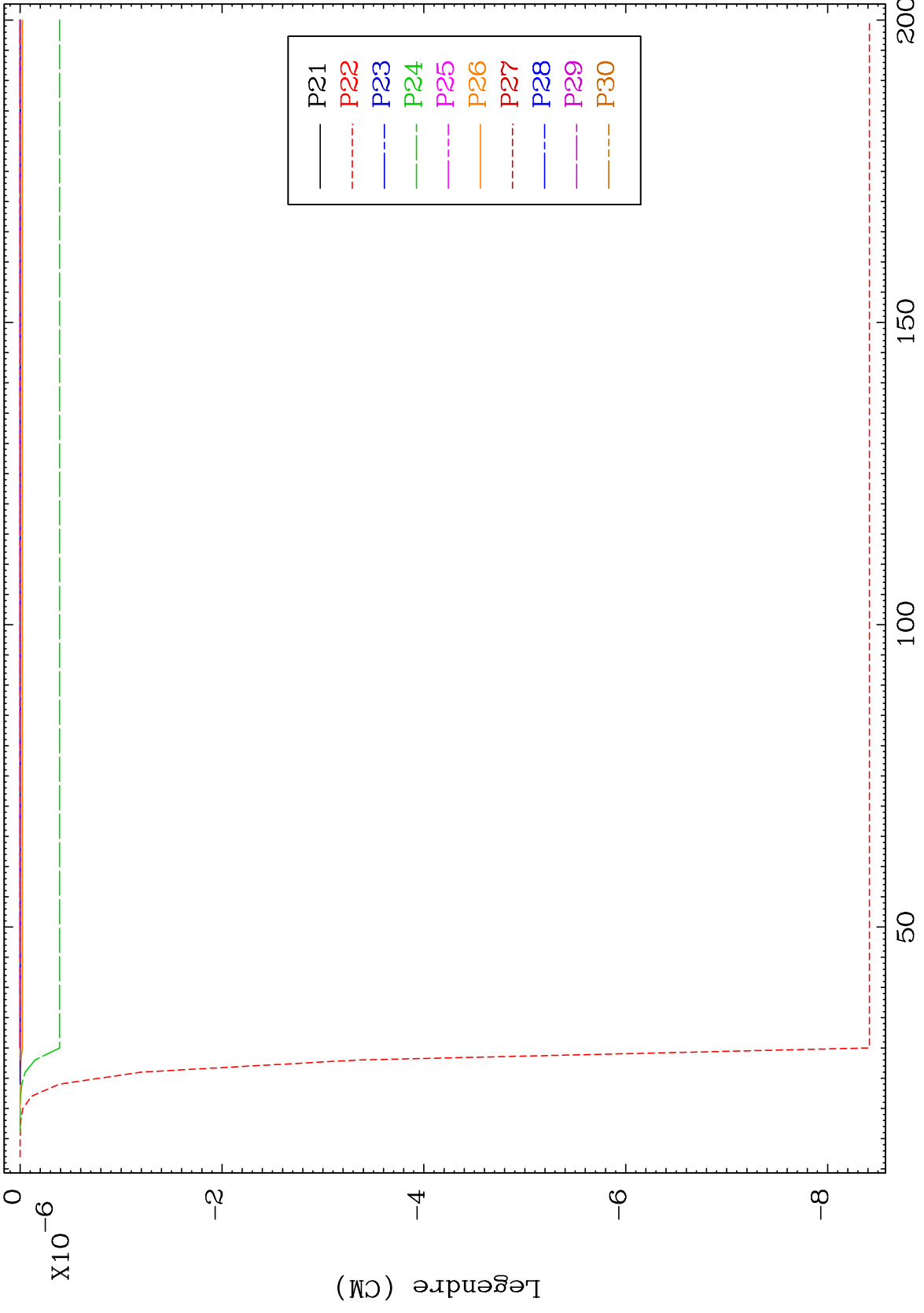


36

Incident Energy (MeV)

69-Tm-162

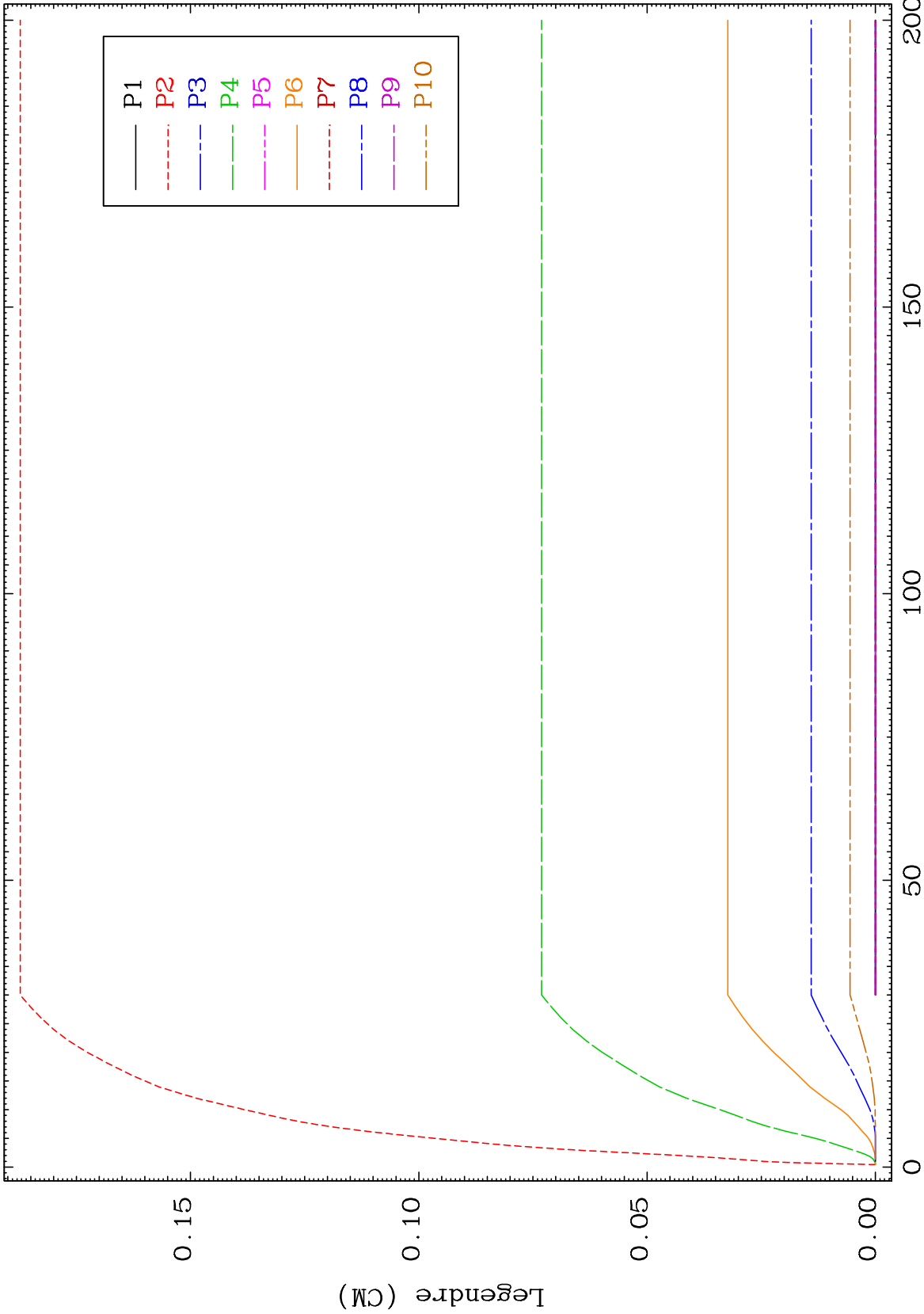
MAT 6904 MT= 56 (n,n') Level Legendre Coefficients 69-Tm-162



MAT 6904

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

69-Tm-162



38

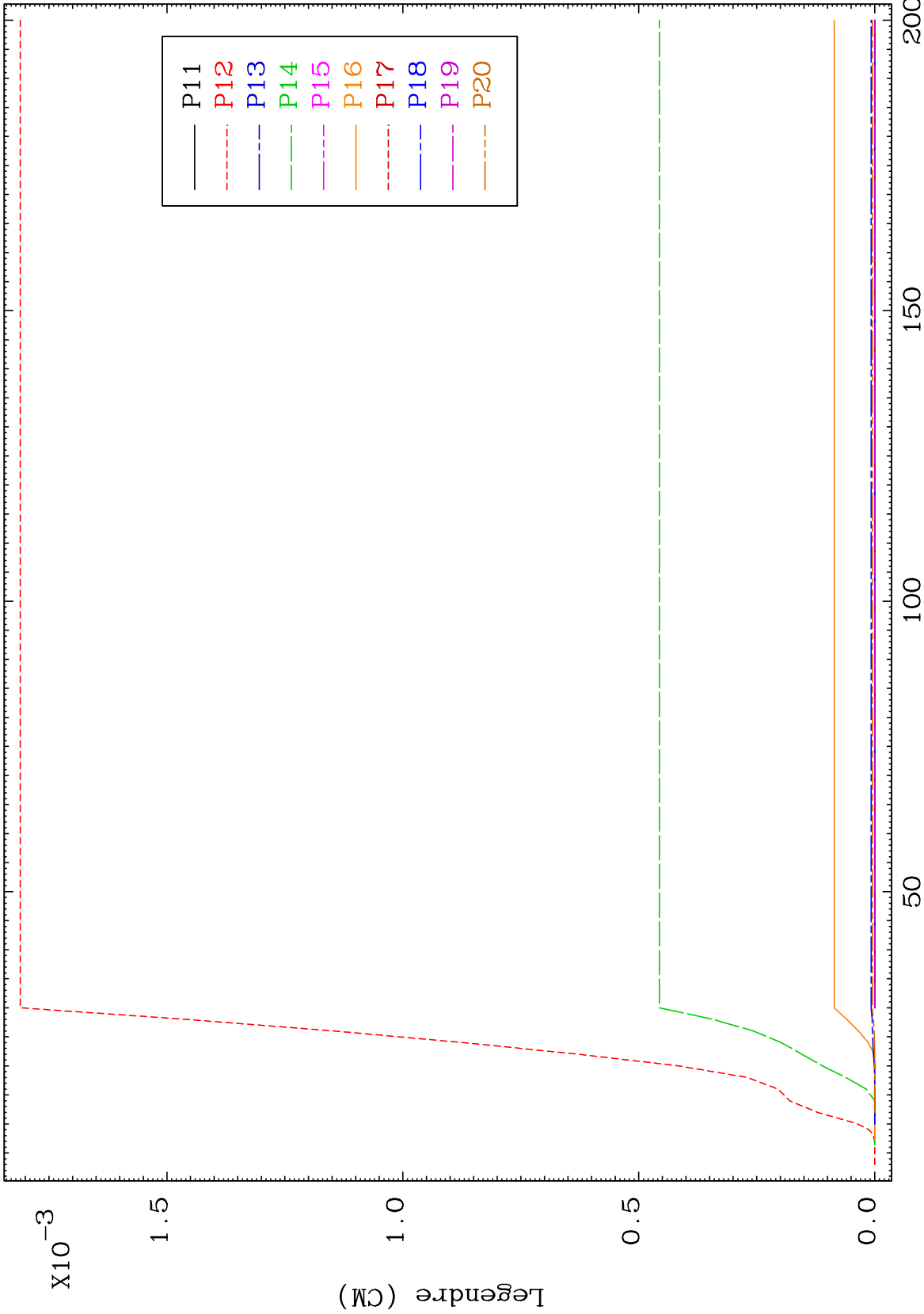
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



39

Incident Energy (MeV)

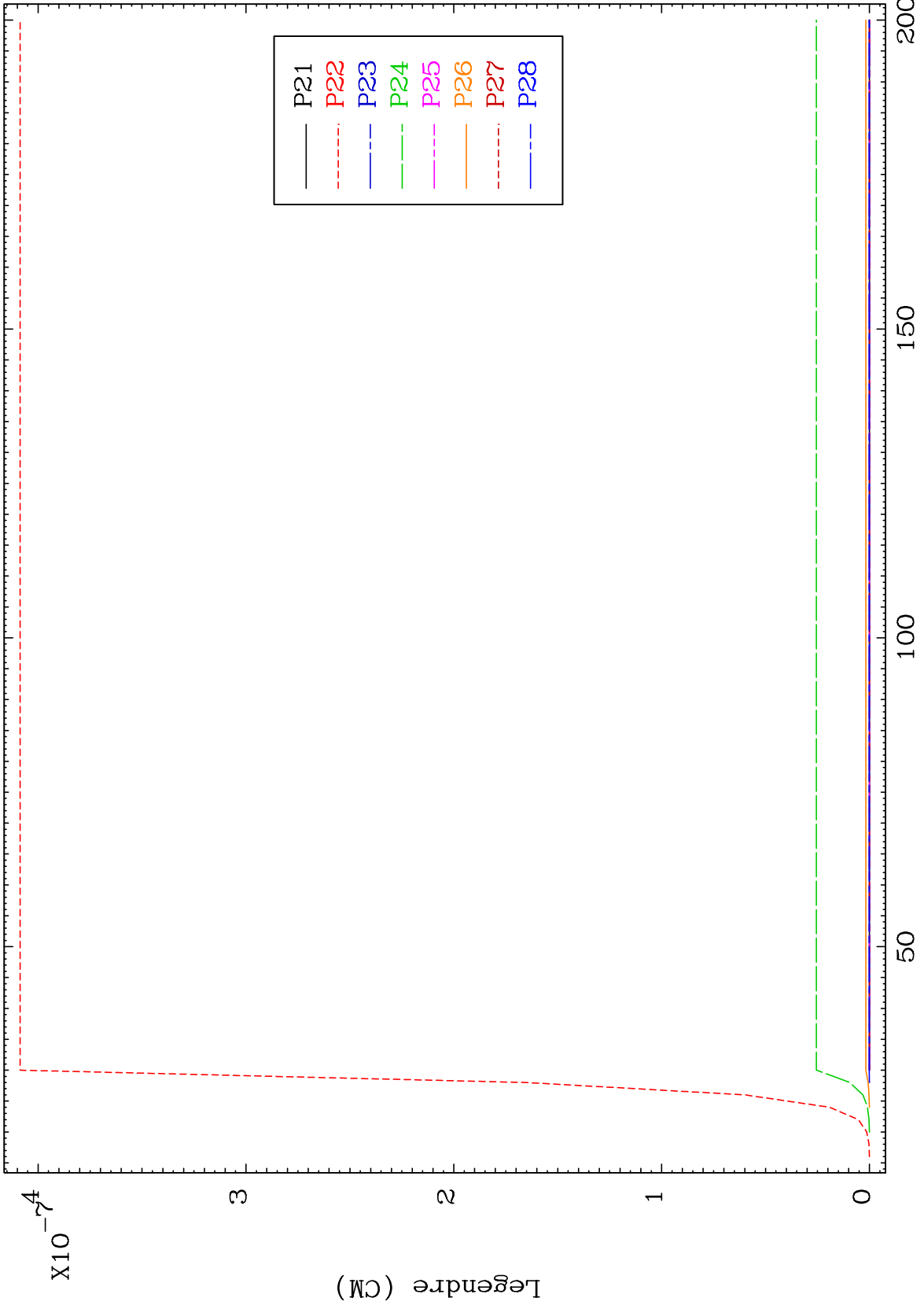
69-Tm-162



MAT 6904

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

69-Tm-162



40

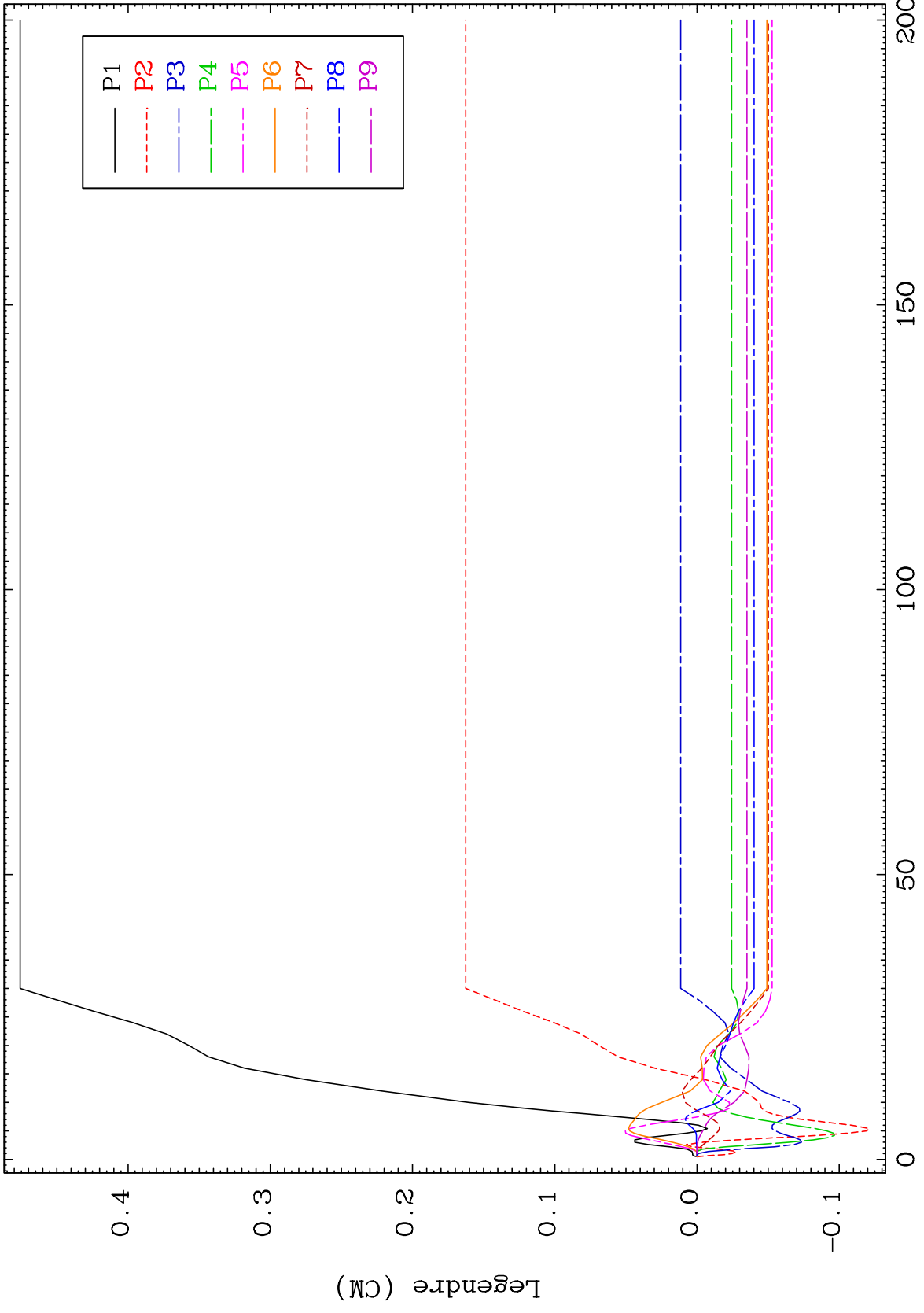
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



41

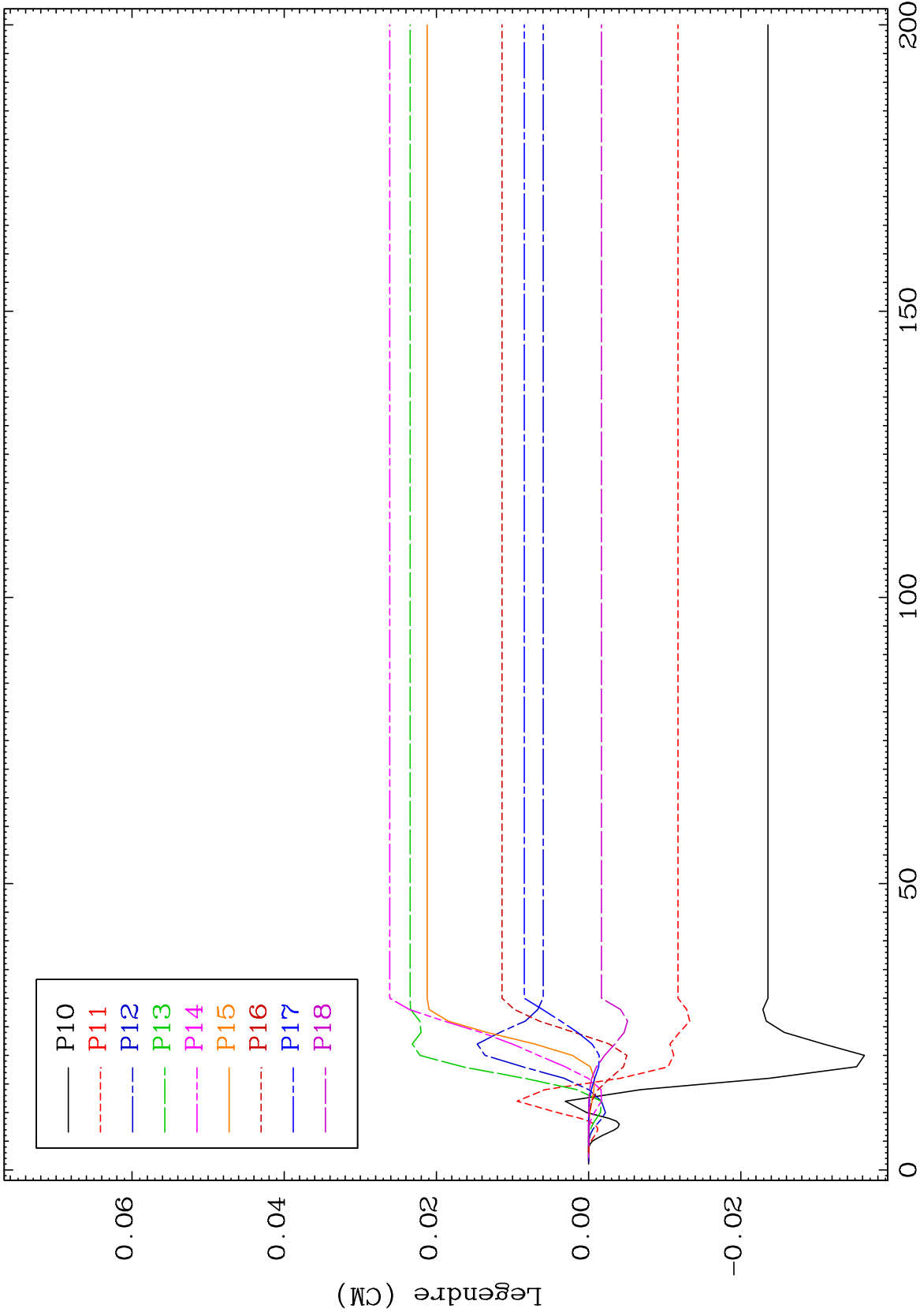
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



42

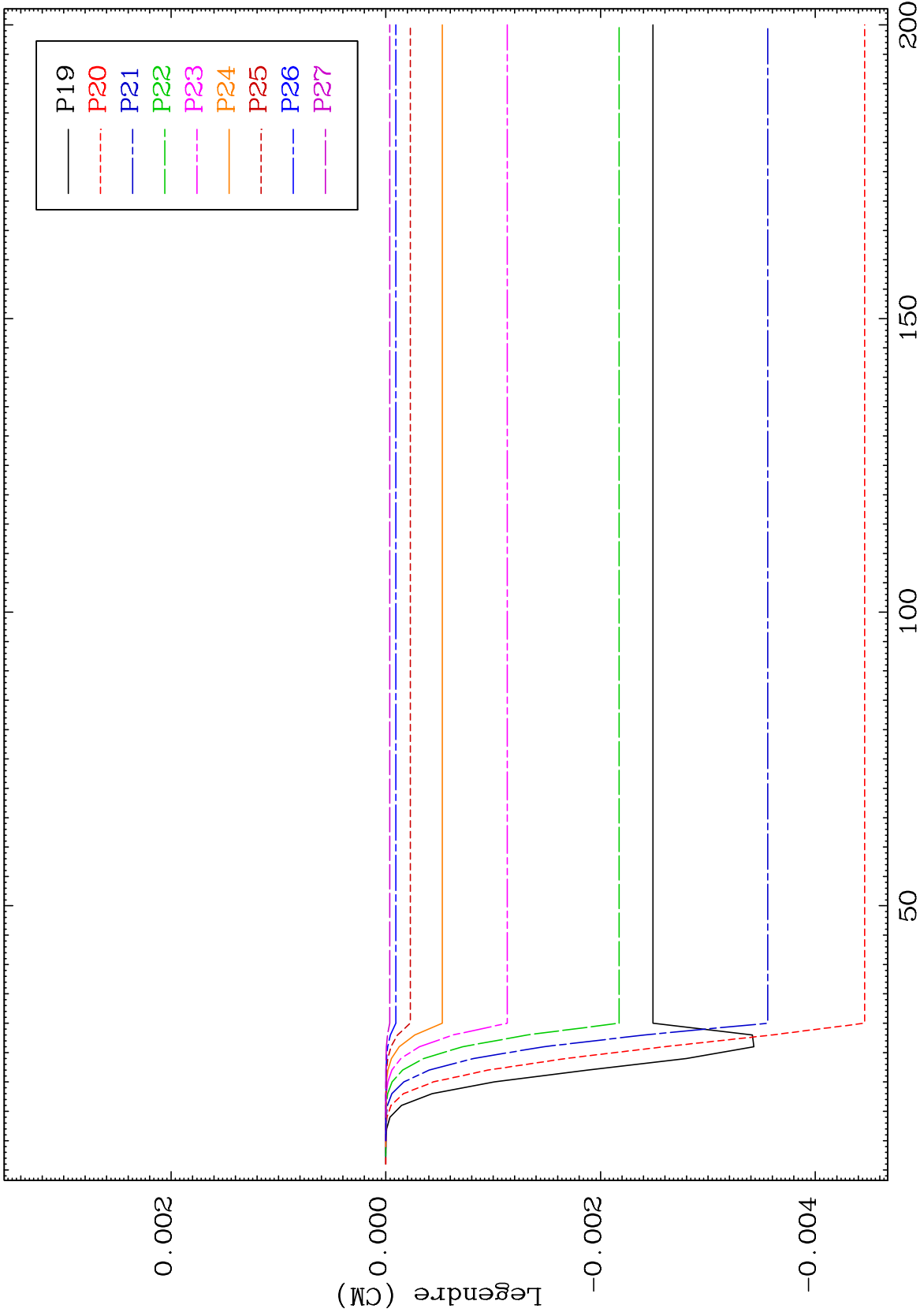
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



43

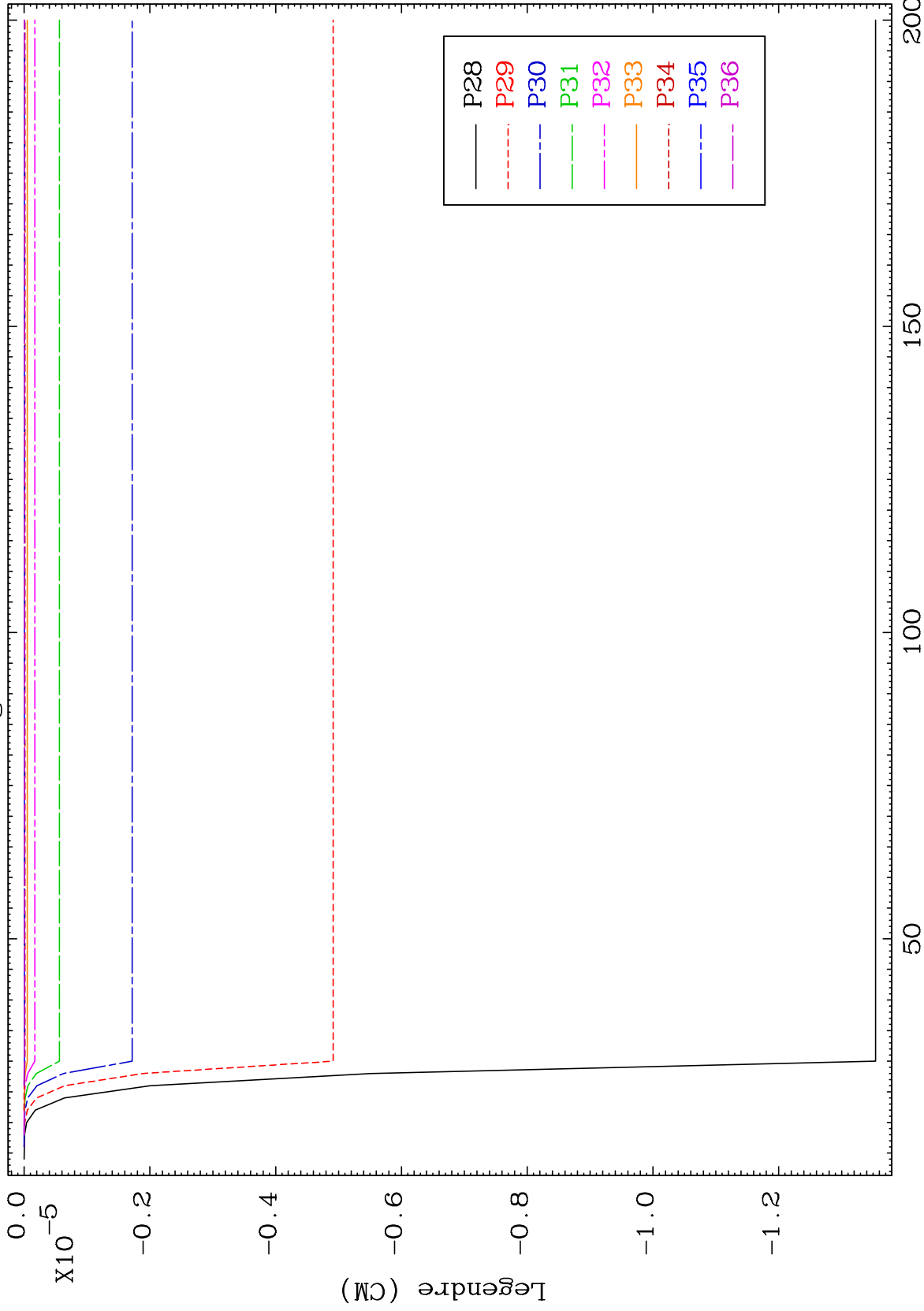
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



69-Tm-162

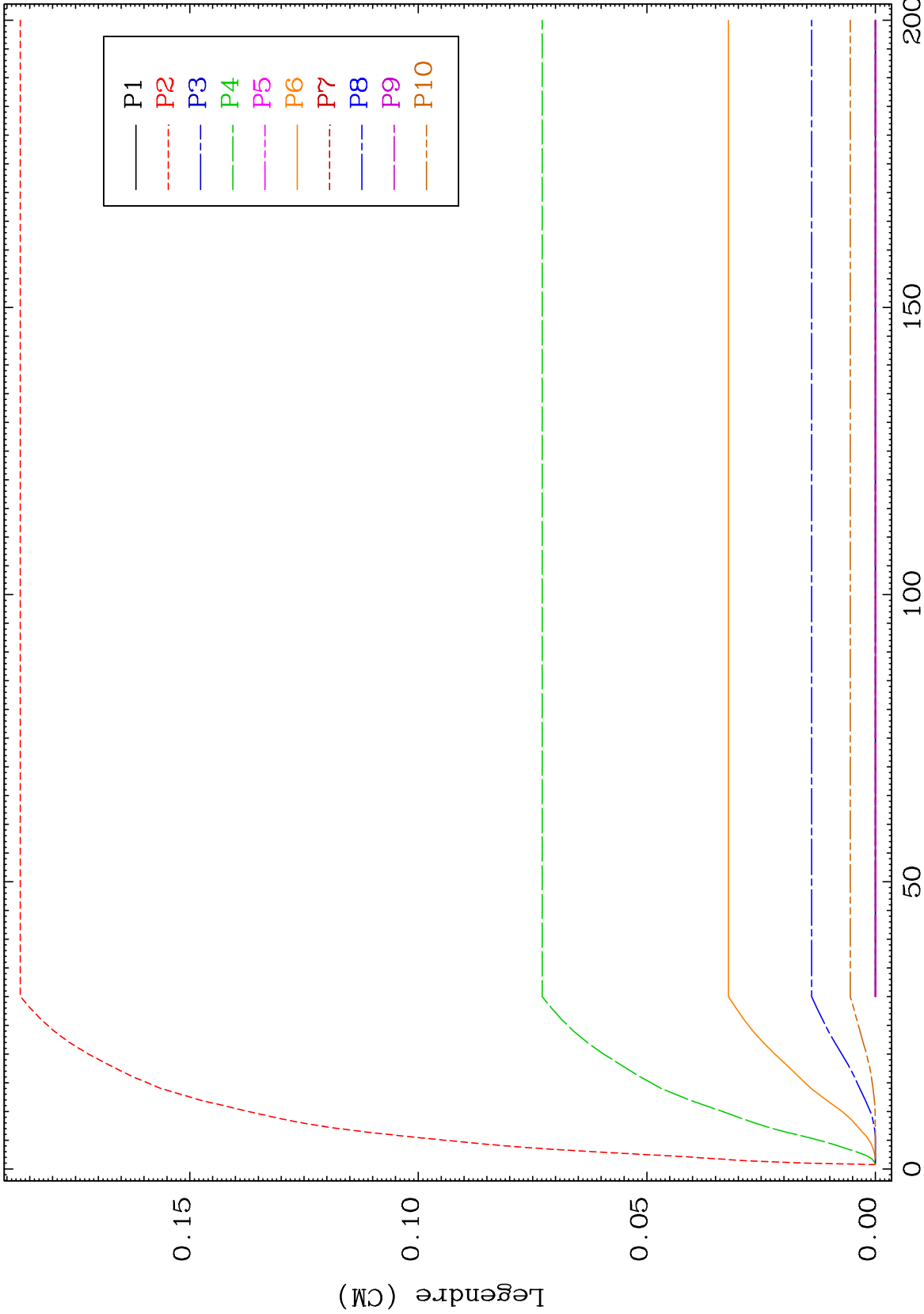
Incident Energy (MeV)

44

MAT 6904

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

69-Tm-162



45

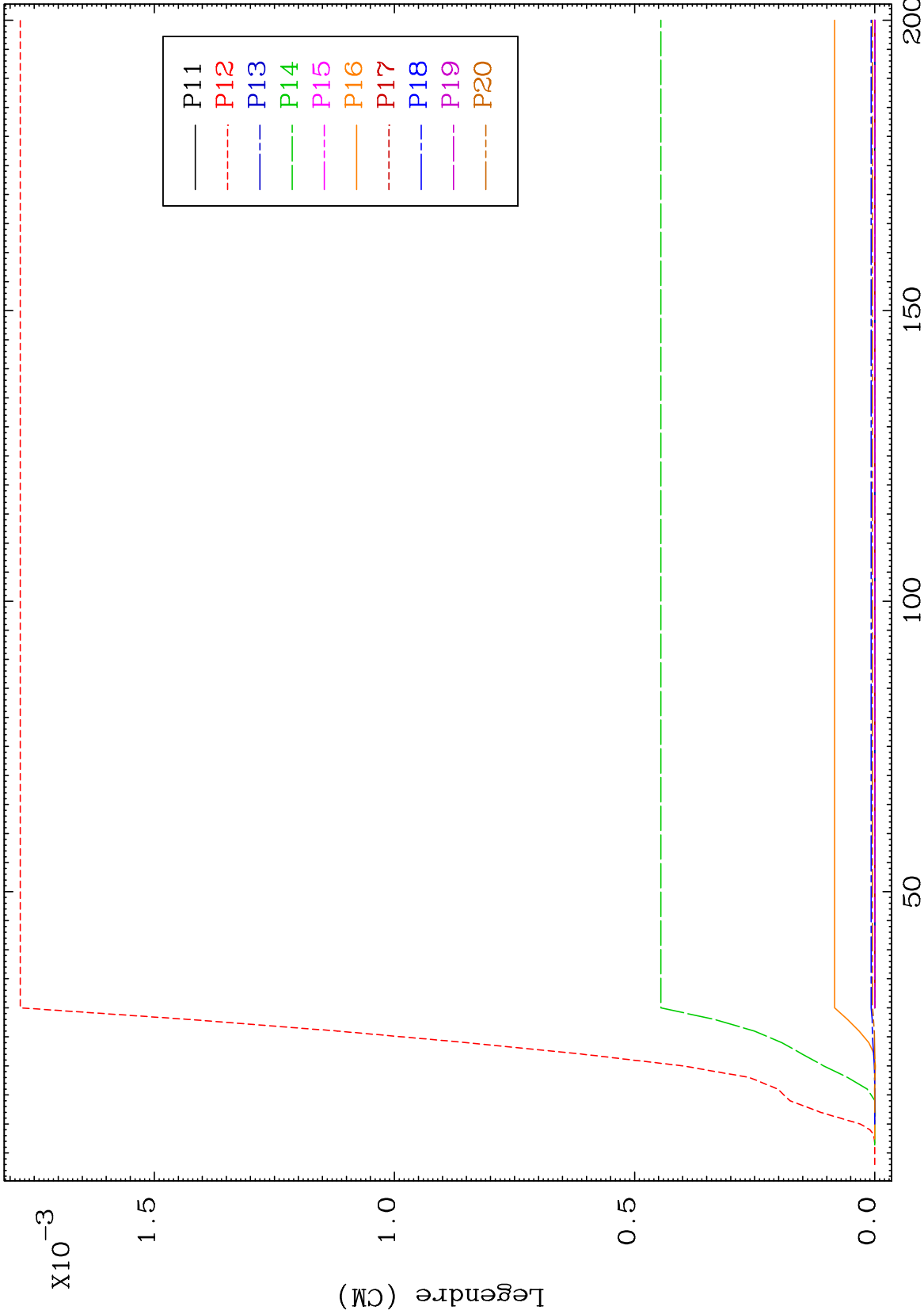
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



46

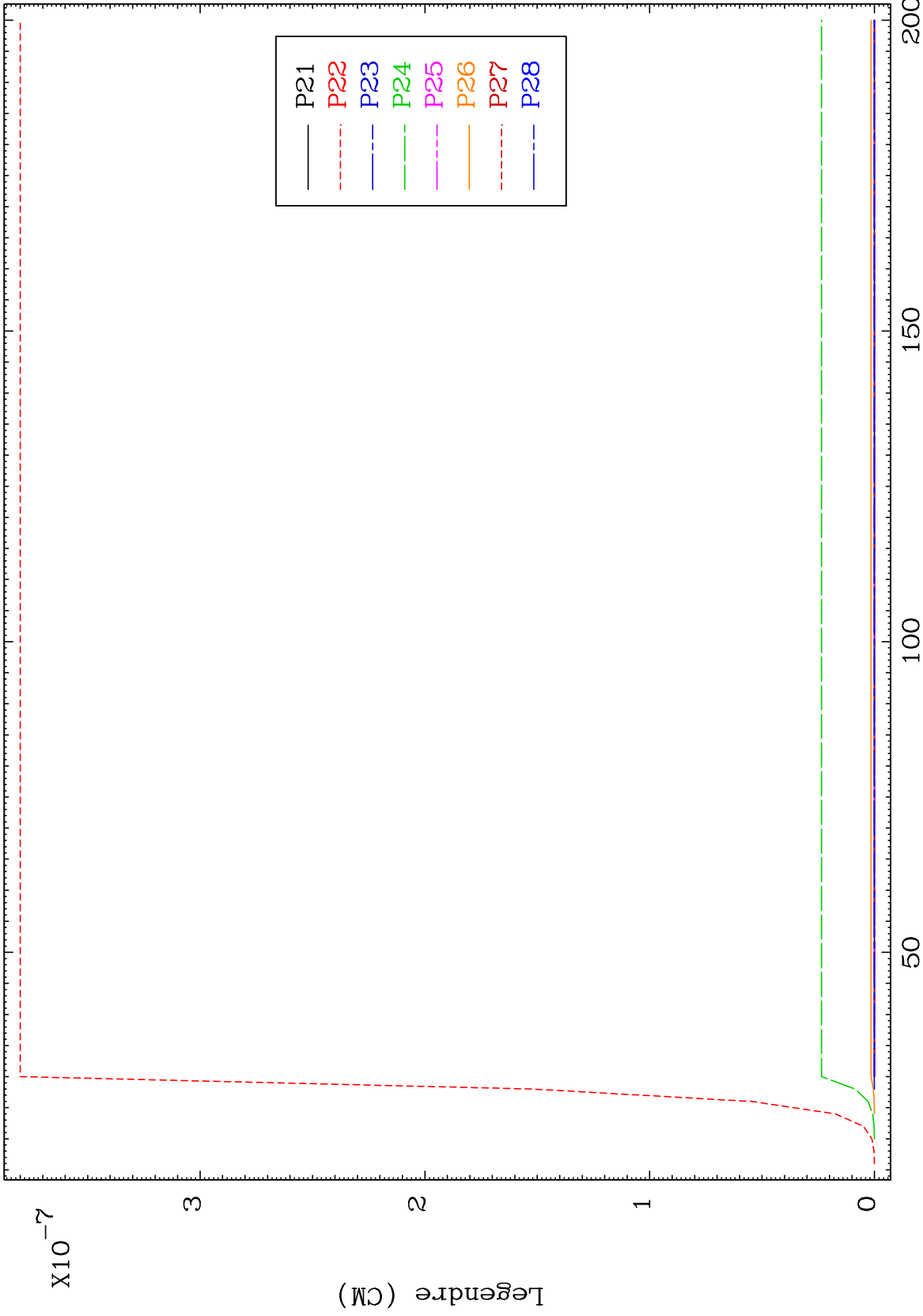
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



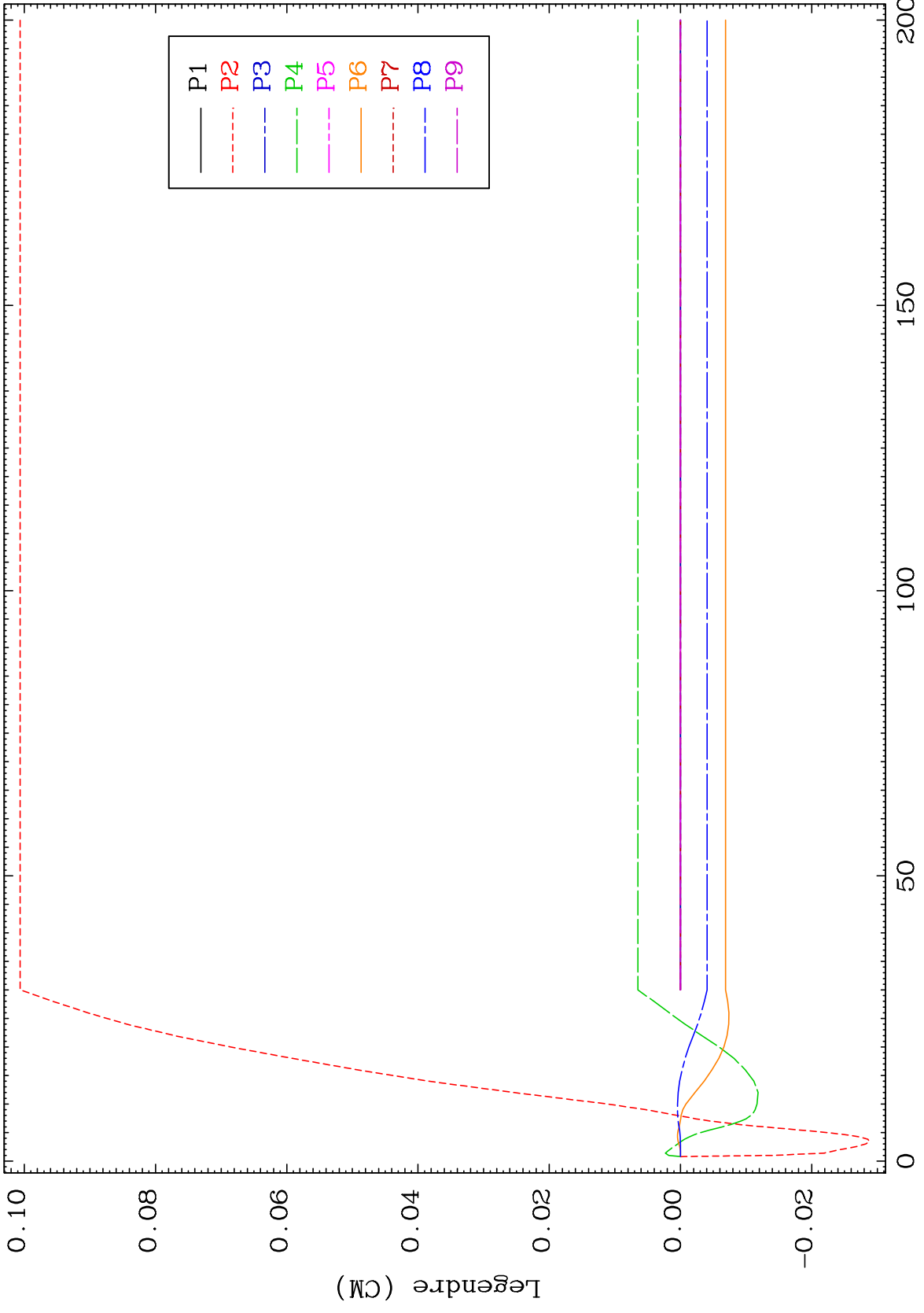
47

Incident Energy (MeV)

69-Tm-162



MAT 6904 MT= 60 (n,n') Level Legendre Coefficients 69-Tm-162

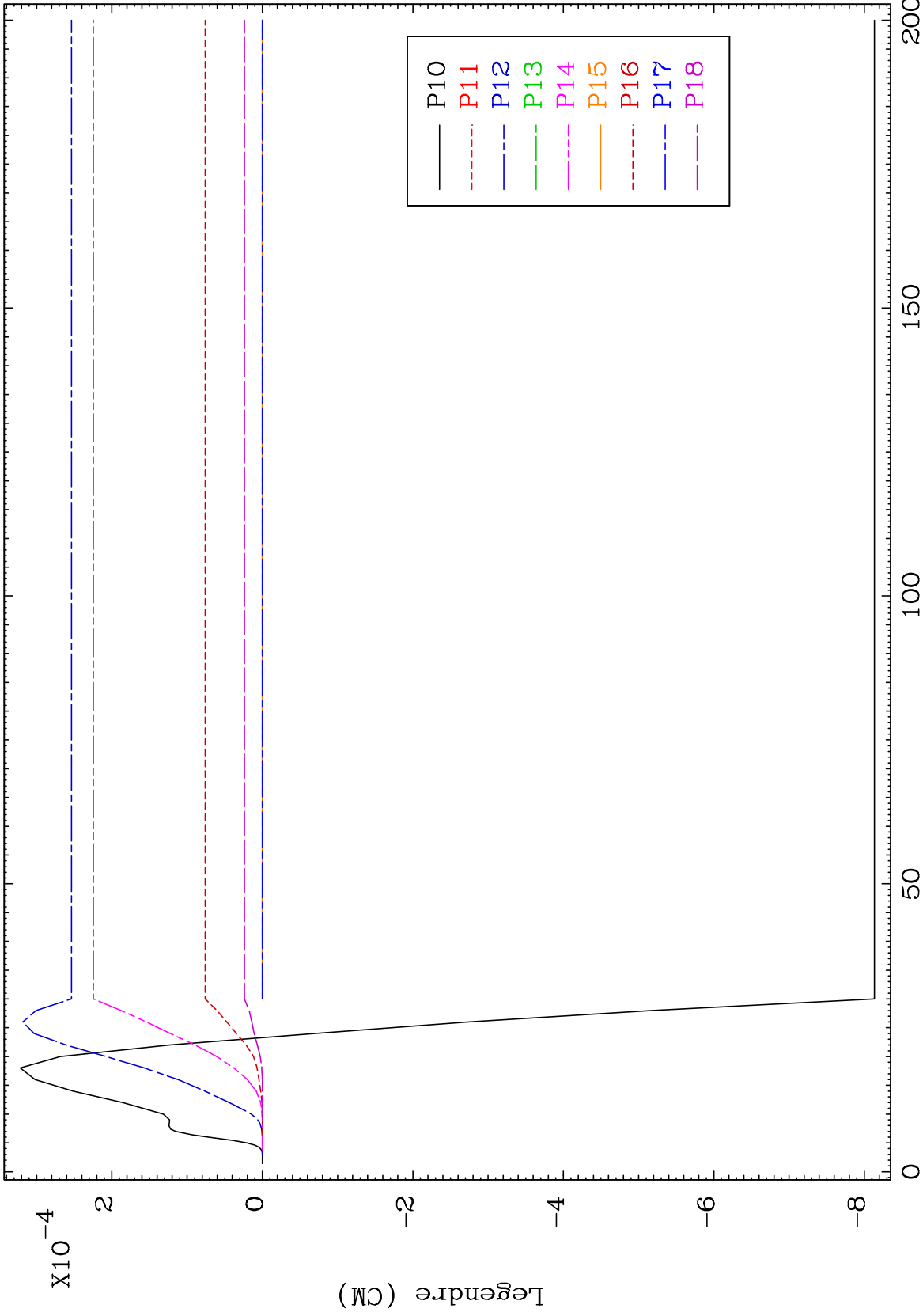


48 69-Tm-162

MAT 6904

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

69-Tm-162

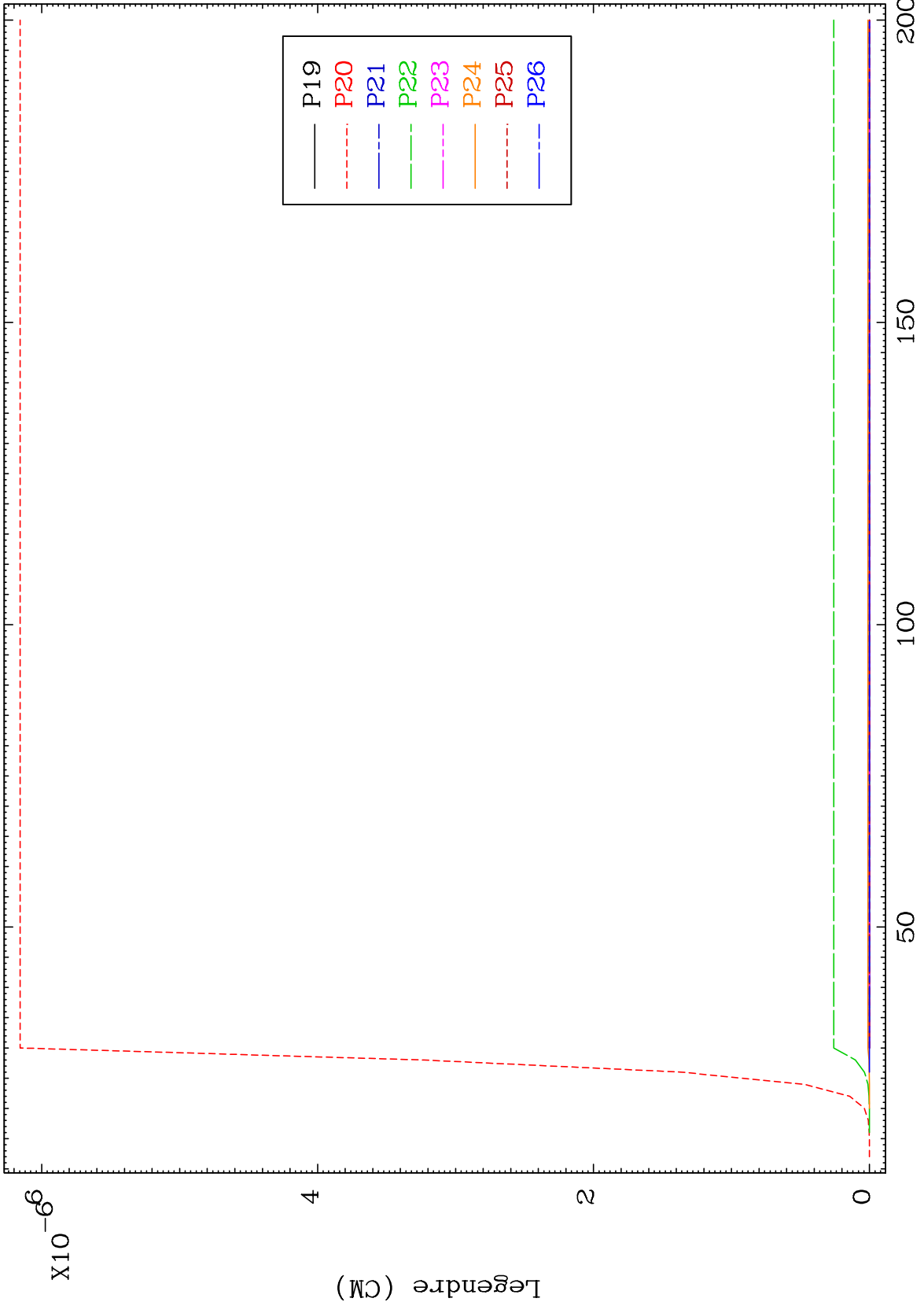


49

Incident Energy (MeV)

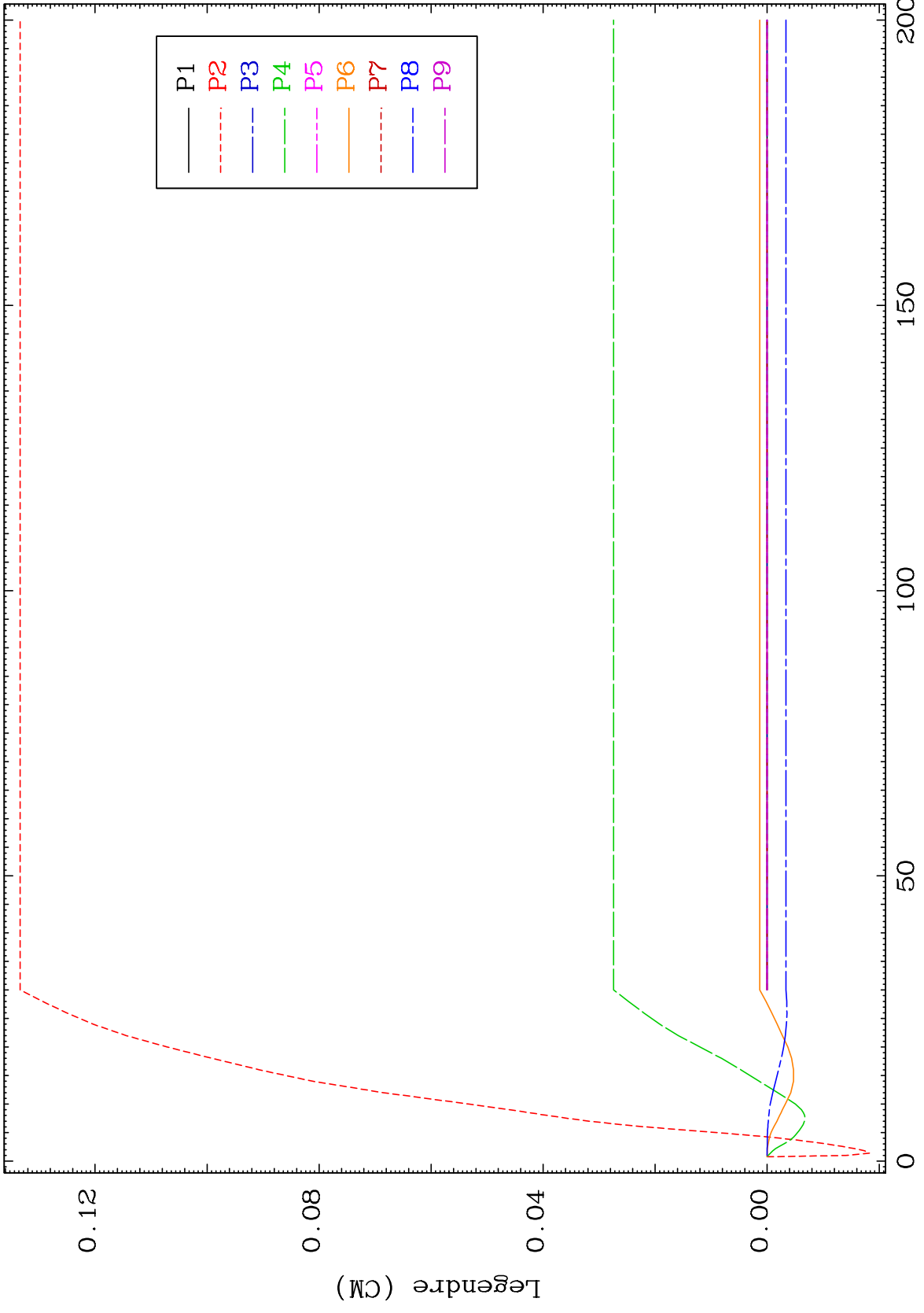
69-Tm-162

MAT 6904 MT= 60 (n,n') Level Legendre Coefficients 69-Tm-162



69-Tm-162

MAT 6904 MT= 61 (n,n') Level Legendre Coefficients 69-Tm-162

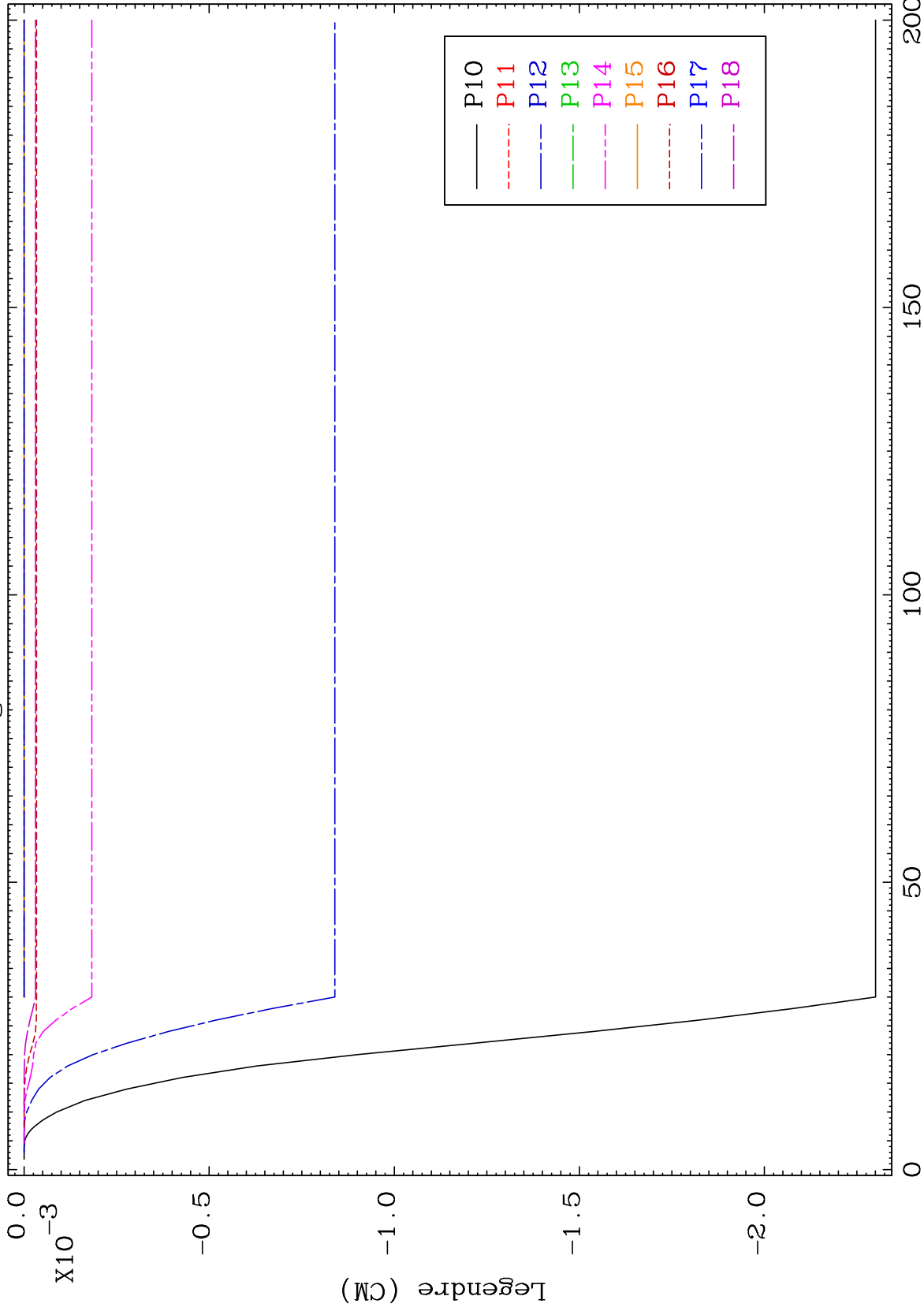


51 69-Tm-162

MAT 6904

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

69-Tm-162



52

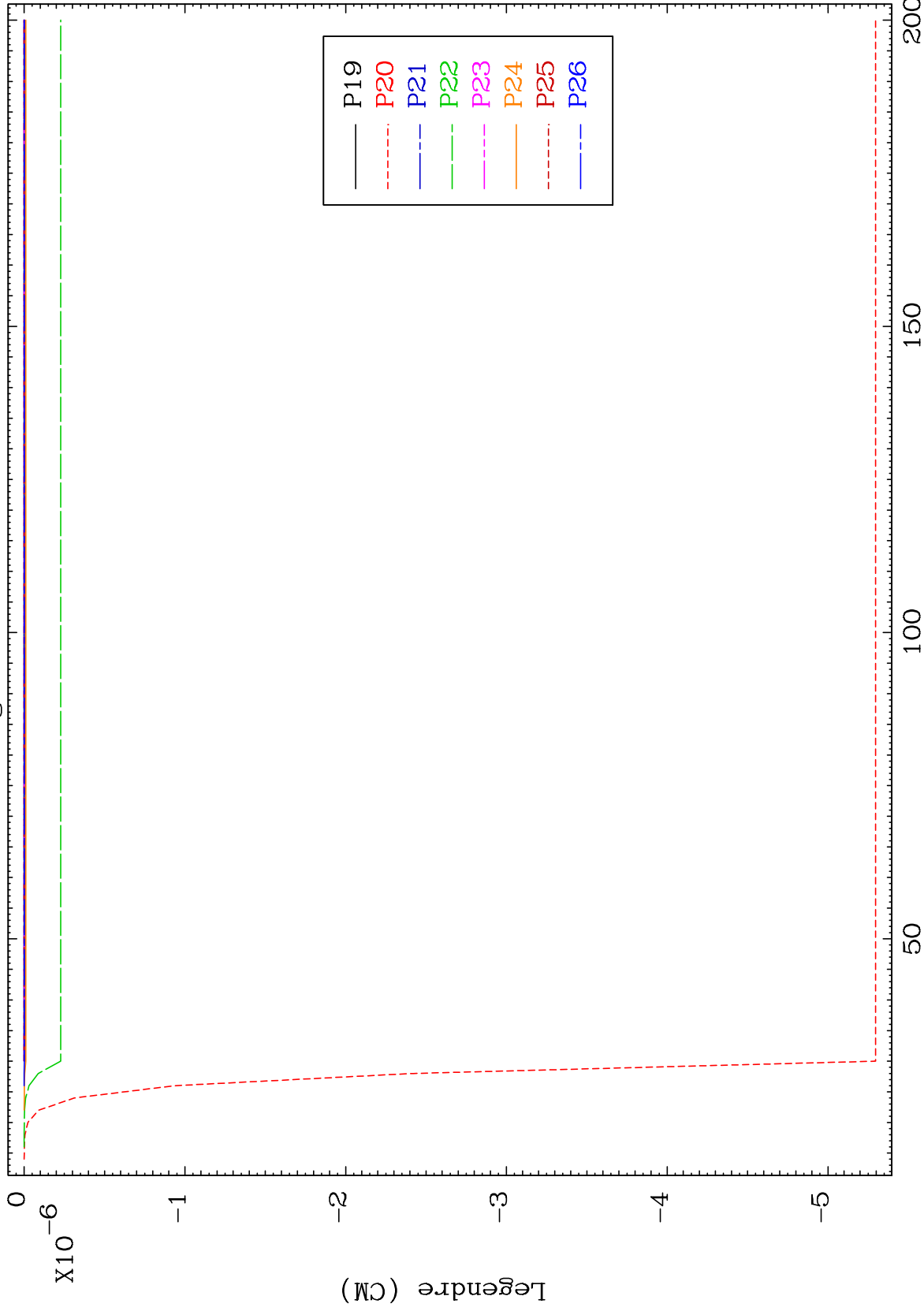
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162

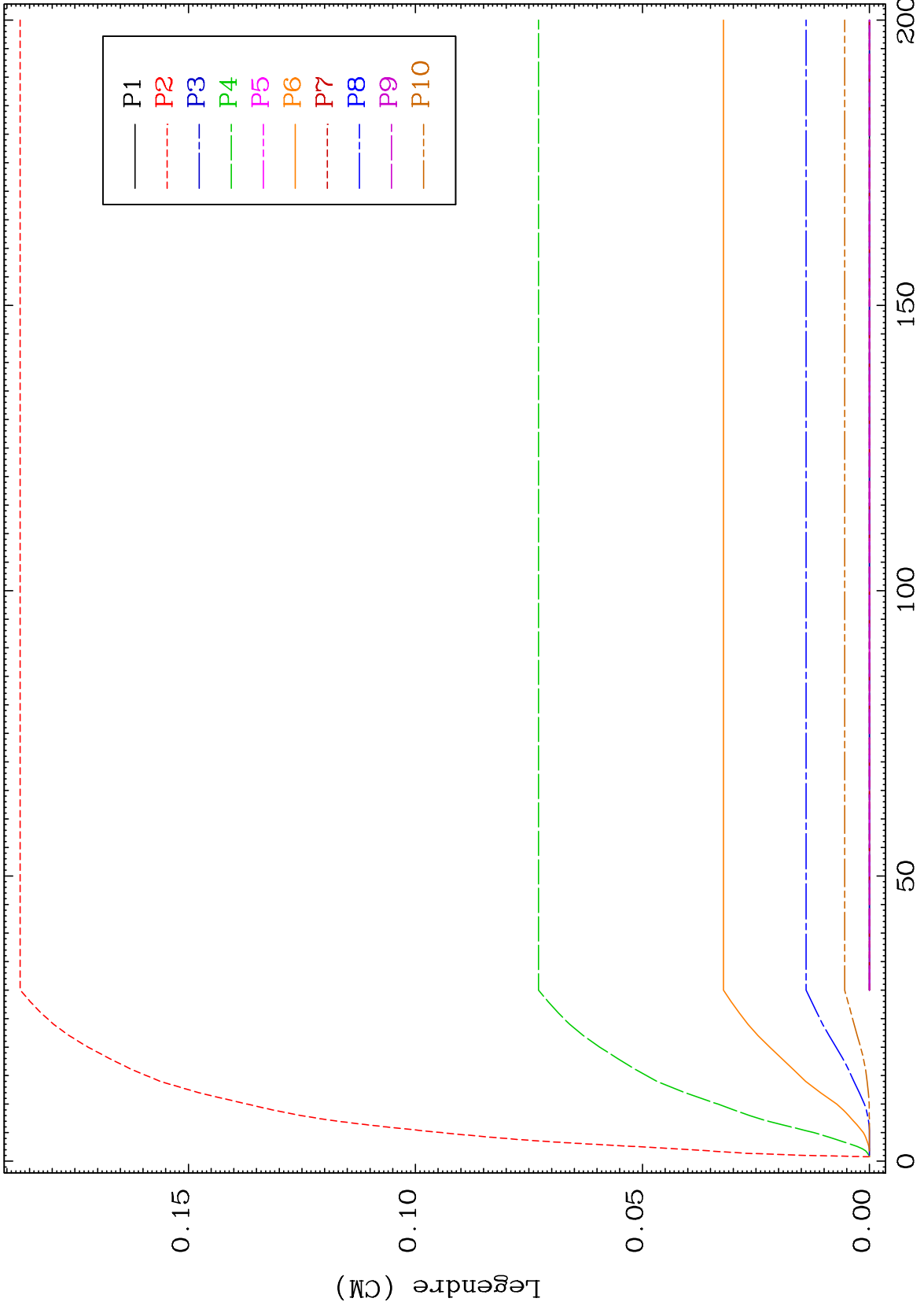


53

Incident Energy (MeV)

69-Tm-162

MAT 6904 MT= 62 (n,n') Level Legendre Coefficients 69-Tm-162

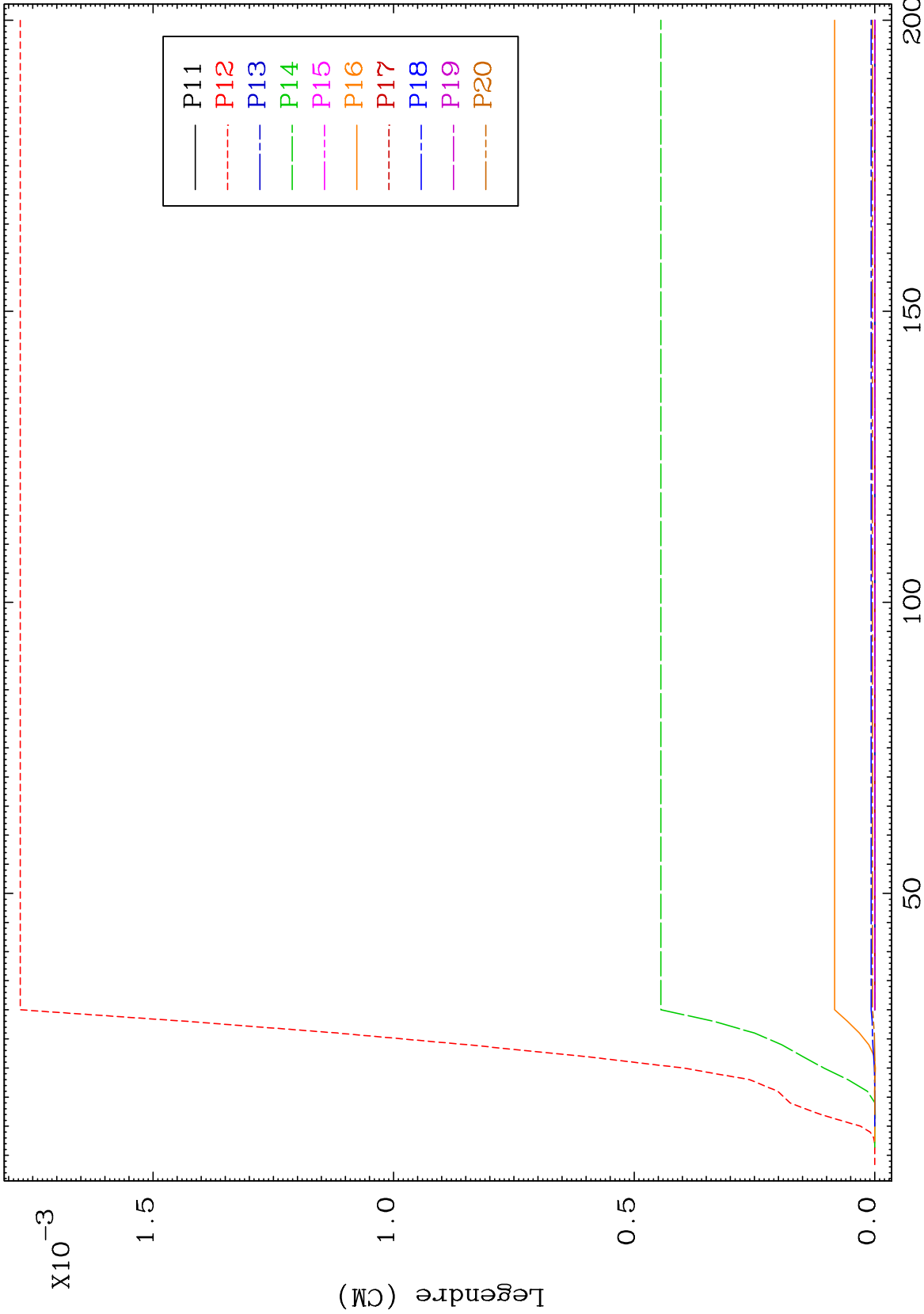


54 Incident Energy (MeV) 69-Tm-162

MAT 6904

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

69-Tm-162



55

Incident Energy (MeV)

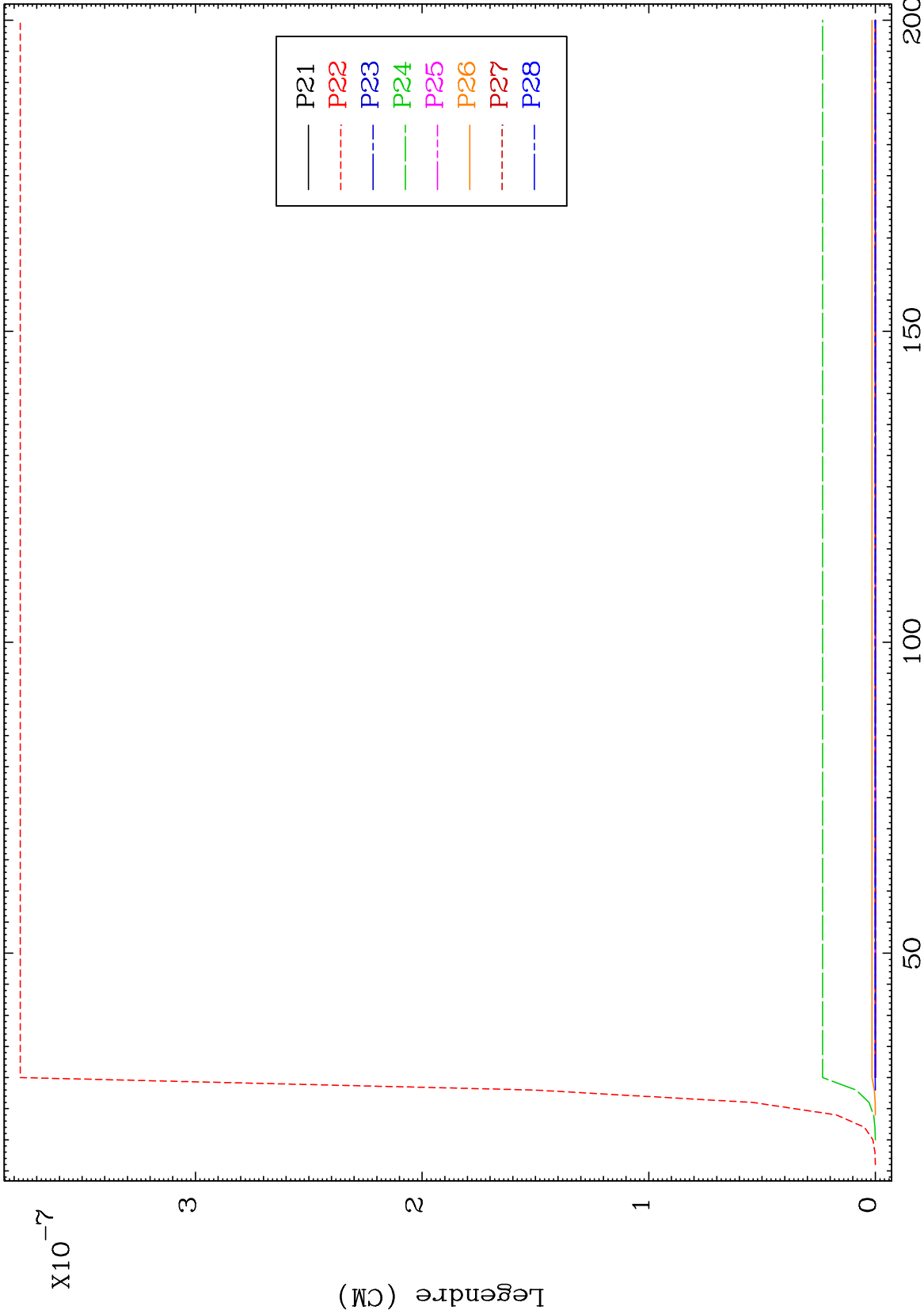
69-Tm-162



MAT 6904

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

69-Tm-162

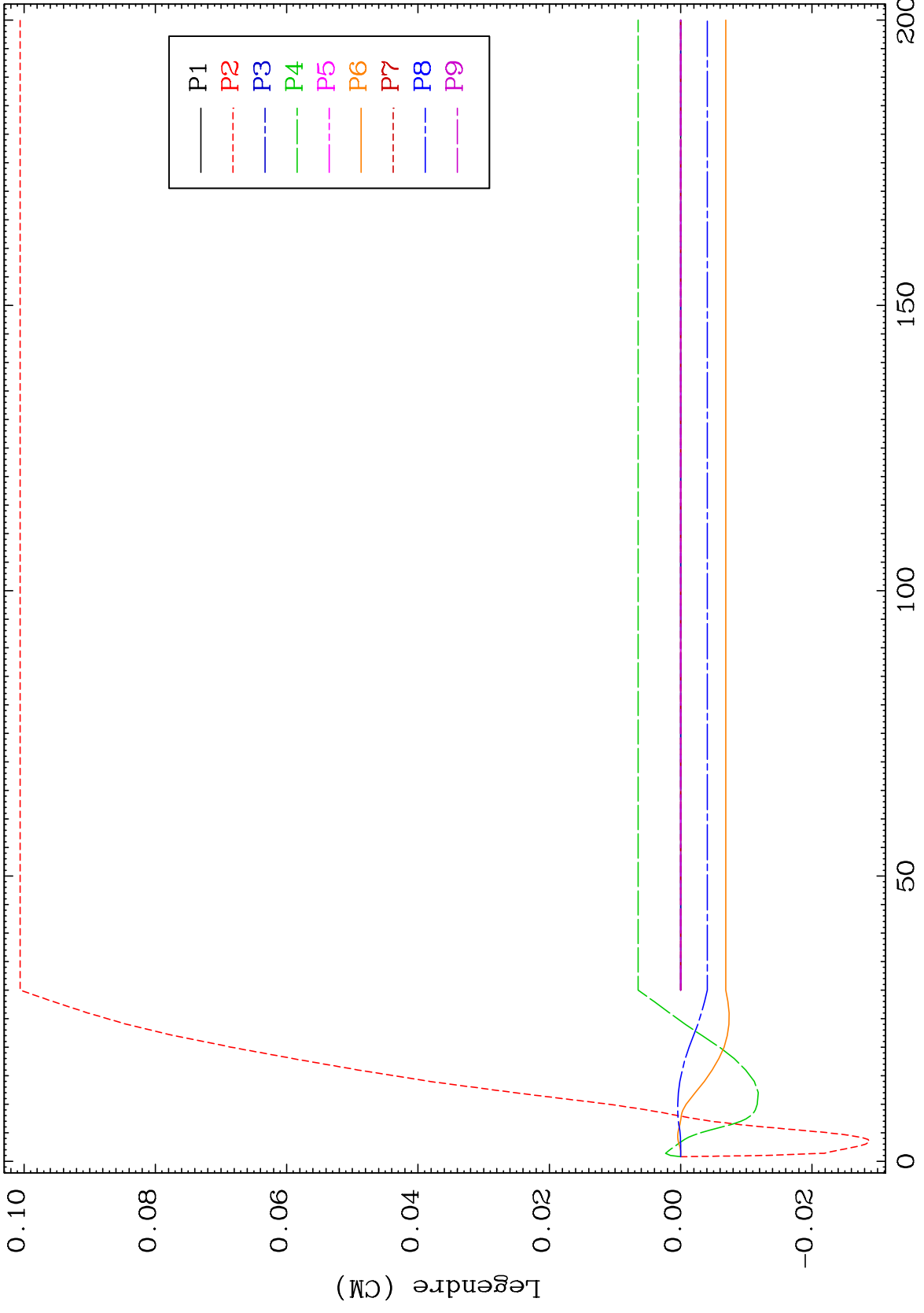


56

Incident Energy (MeV)

69-Tm-162

MAT 6904 MT= 63 (n,n') Level Legendre Coefficients 69-Tm-162

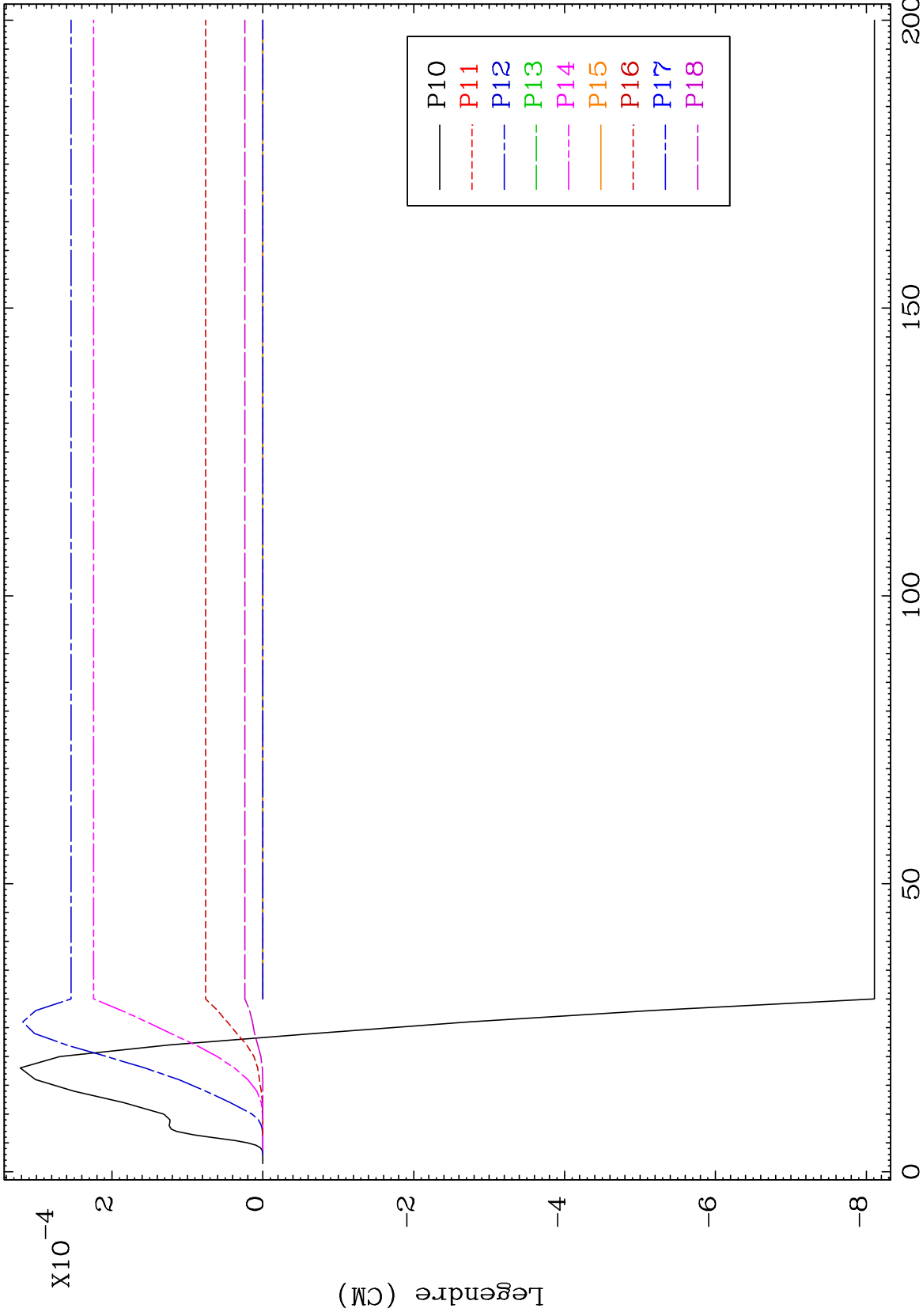


57 69-Tm-162

MAT 6904

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

69-Tm-162

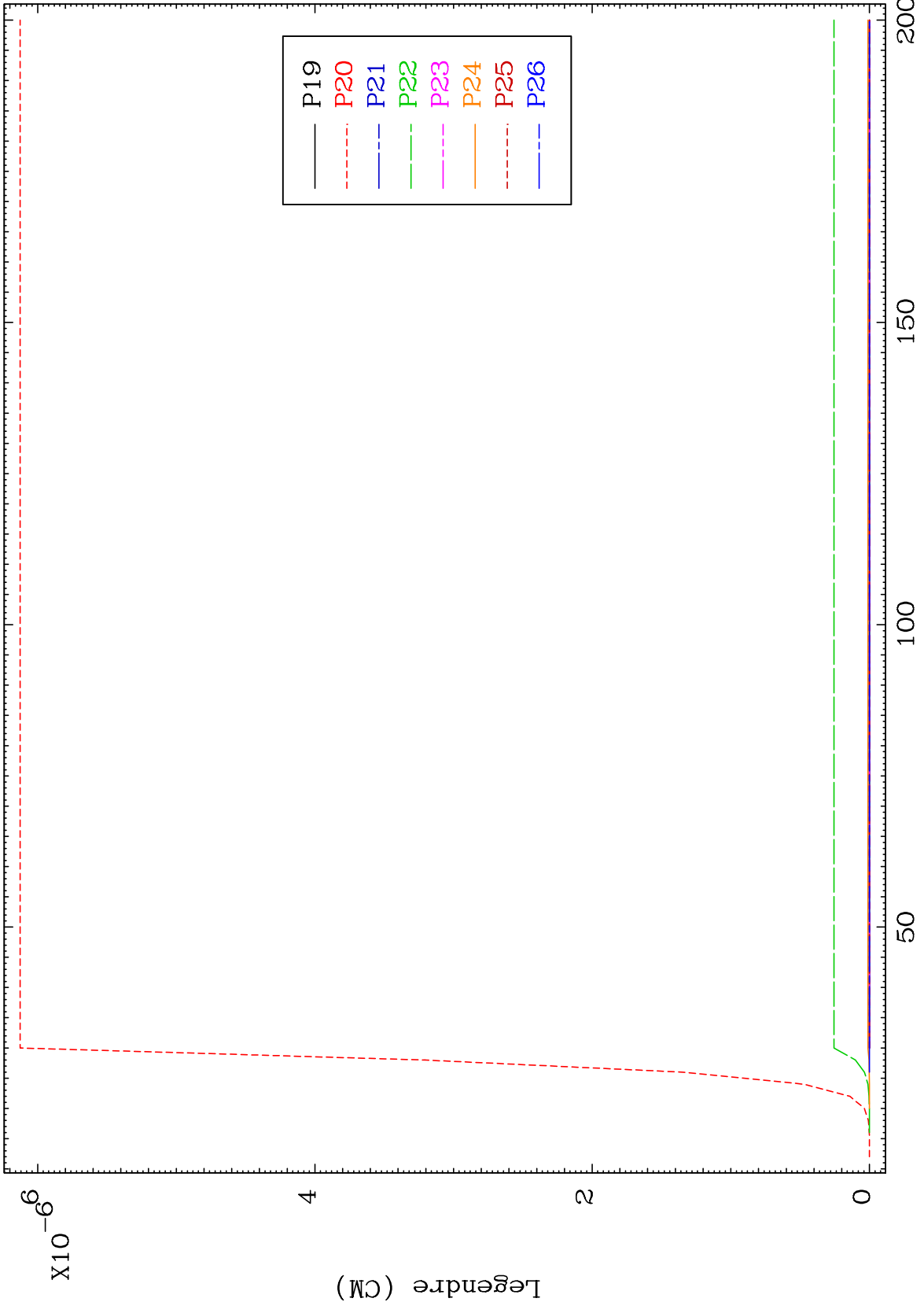


58

Incident Energy (MeV)

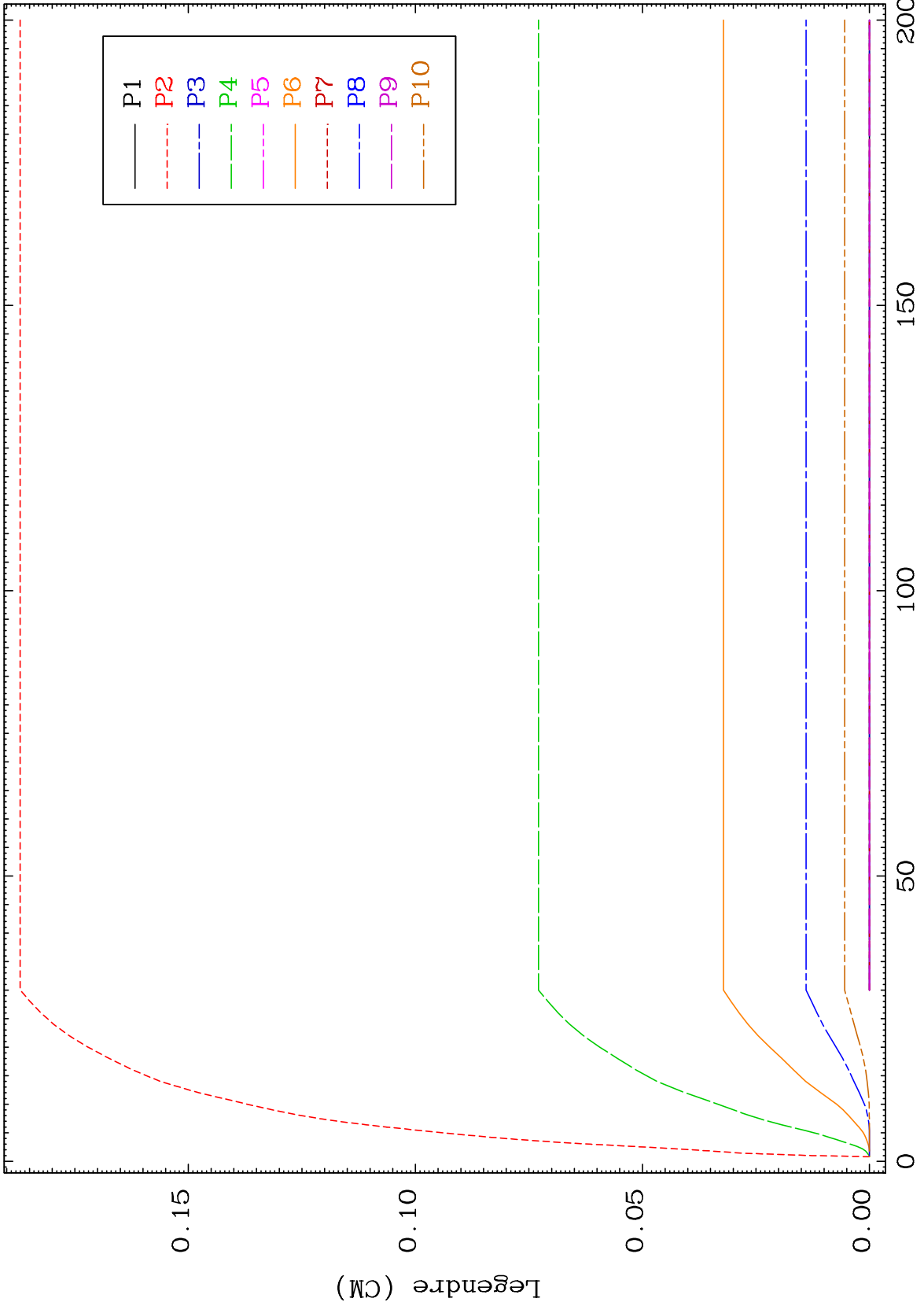
69-Tm-162

MAT 6904 MT= 63 (n,n') Level Legendre Coefficients 69-Tm-162



59 Incident Energy (MeV) 69-Tm-162

MAT 6904 MT= 64 (n,n') Level Legendre Coefficients 69-Tm-162

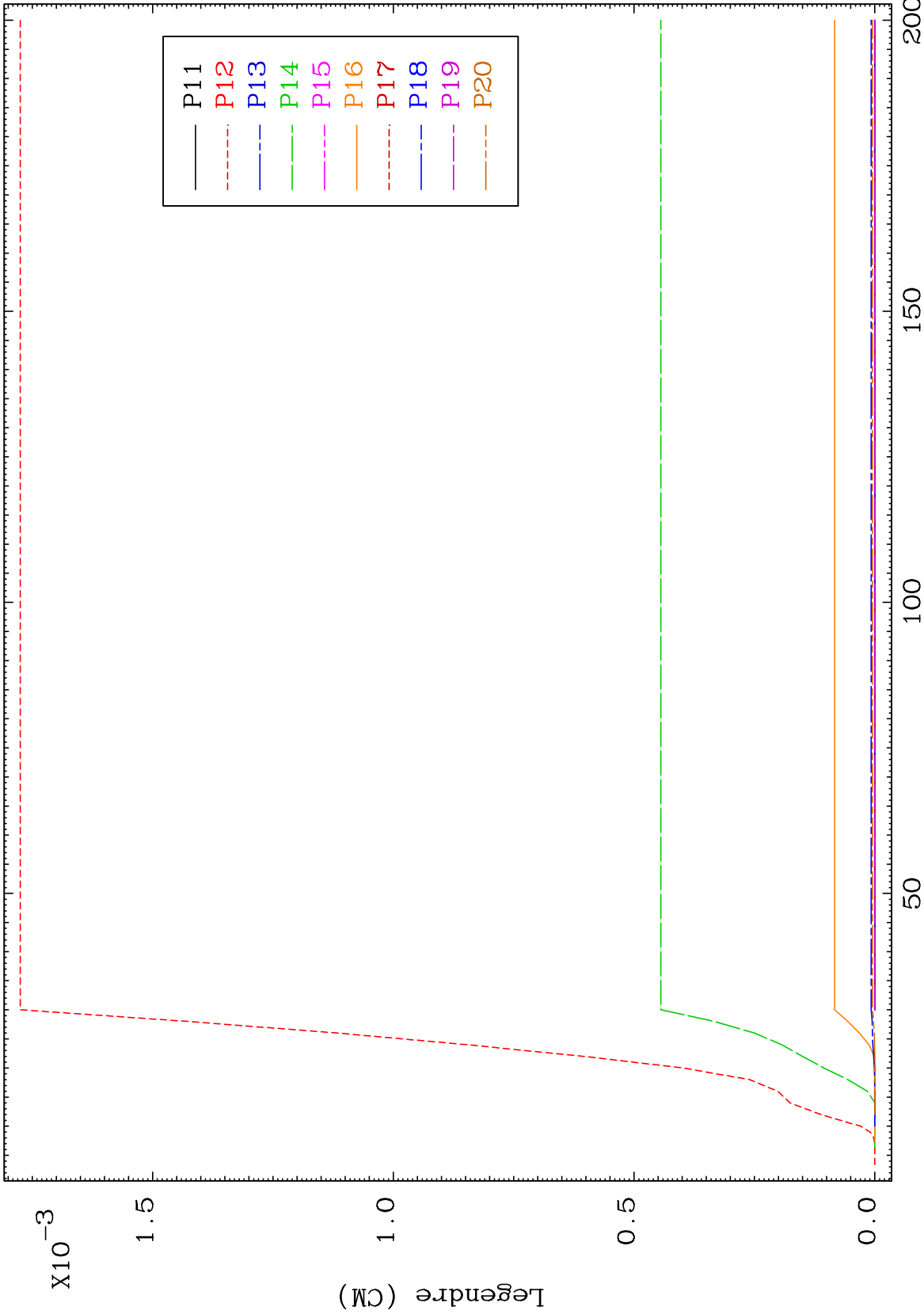


69-Tm-162

MAT 6904

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

69-Tm-162



61

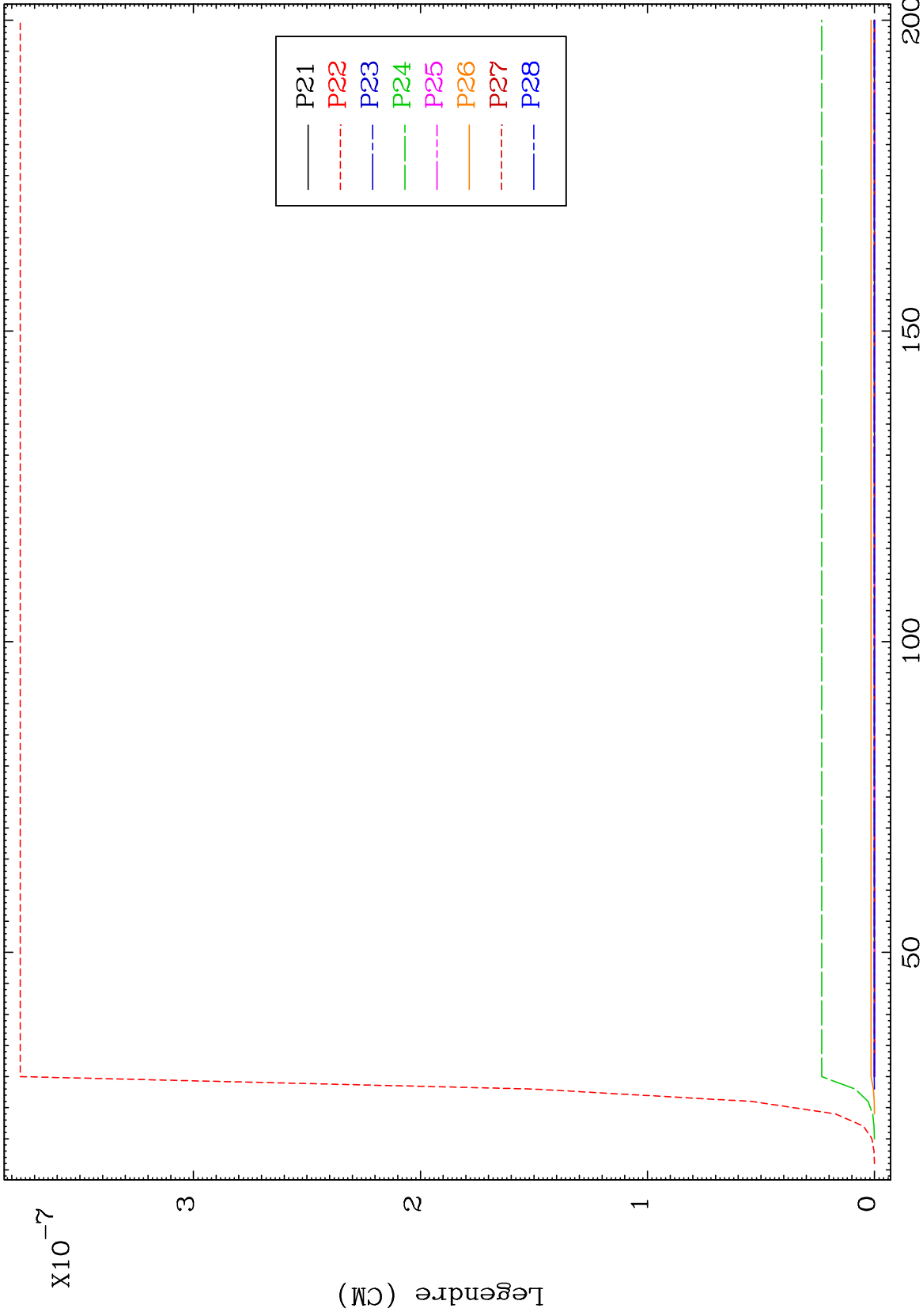
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



62

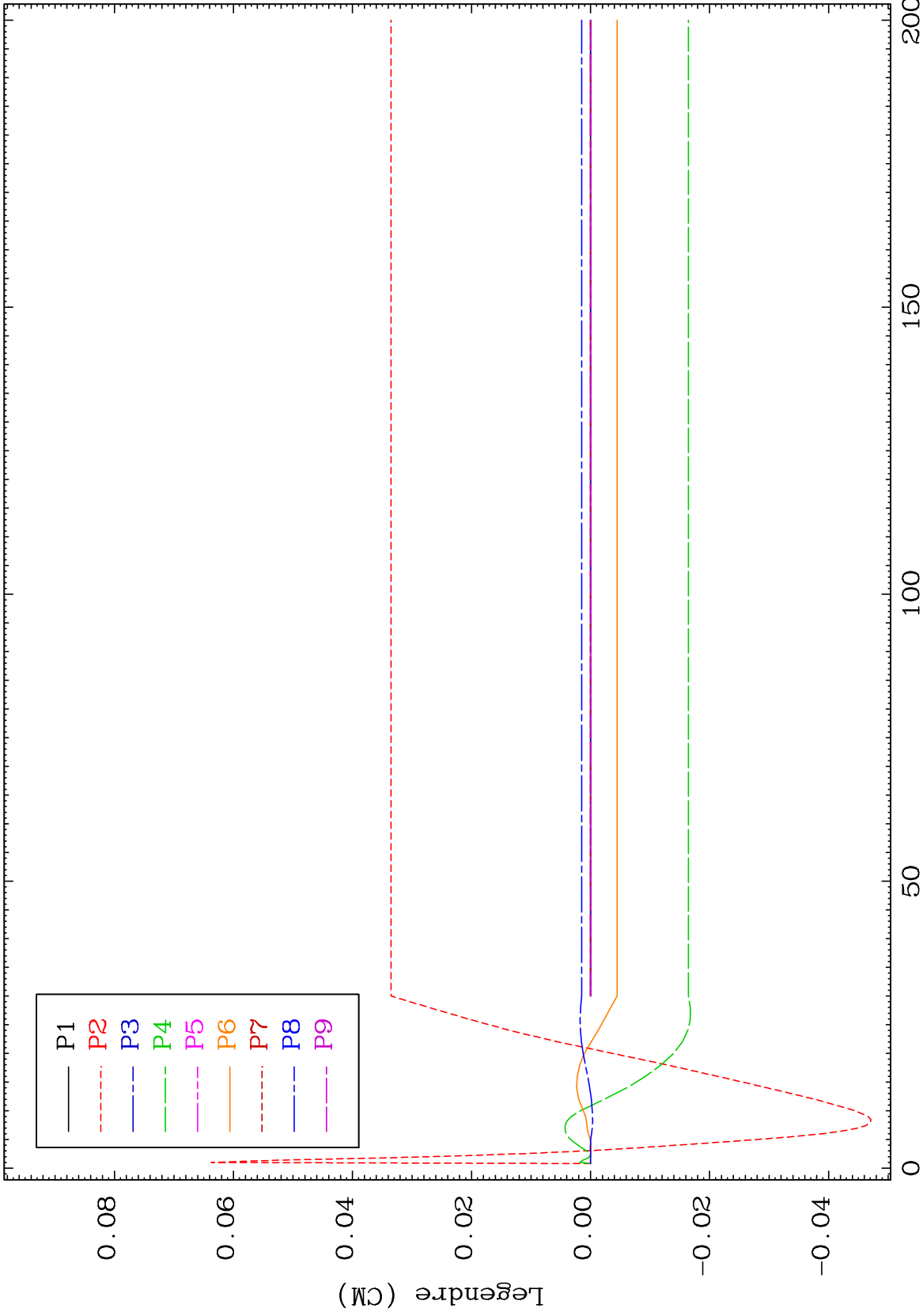
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



63

Incident Energy (MeV)

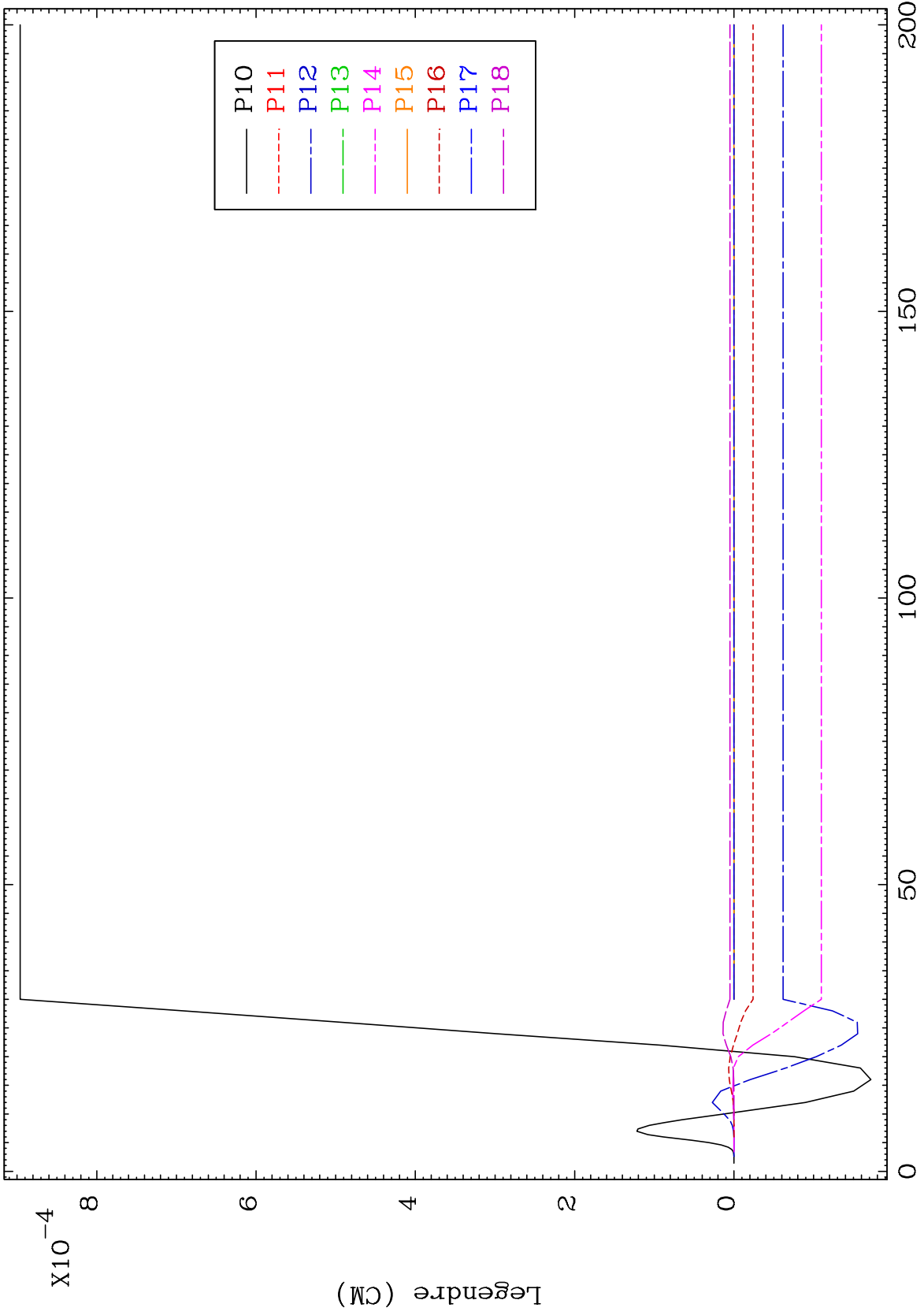
69-Tm-162



MAT 6904

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

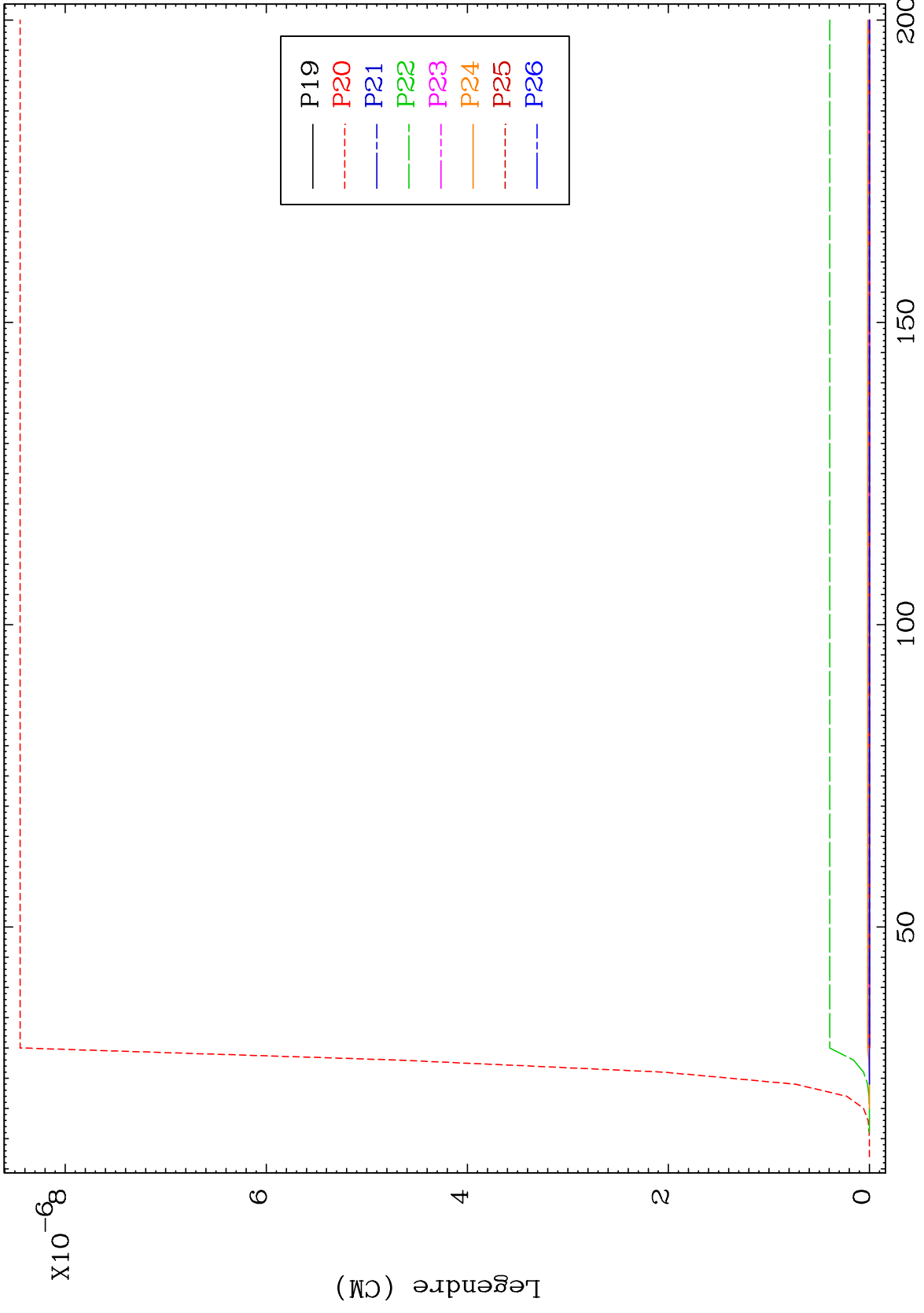
69-Tm-162



64

69-Tm-162

MAT 6904 MT= 65 (n,n') Level Legendre Coefficients 69-Tm-162

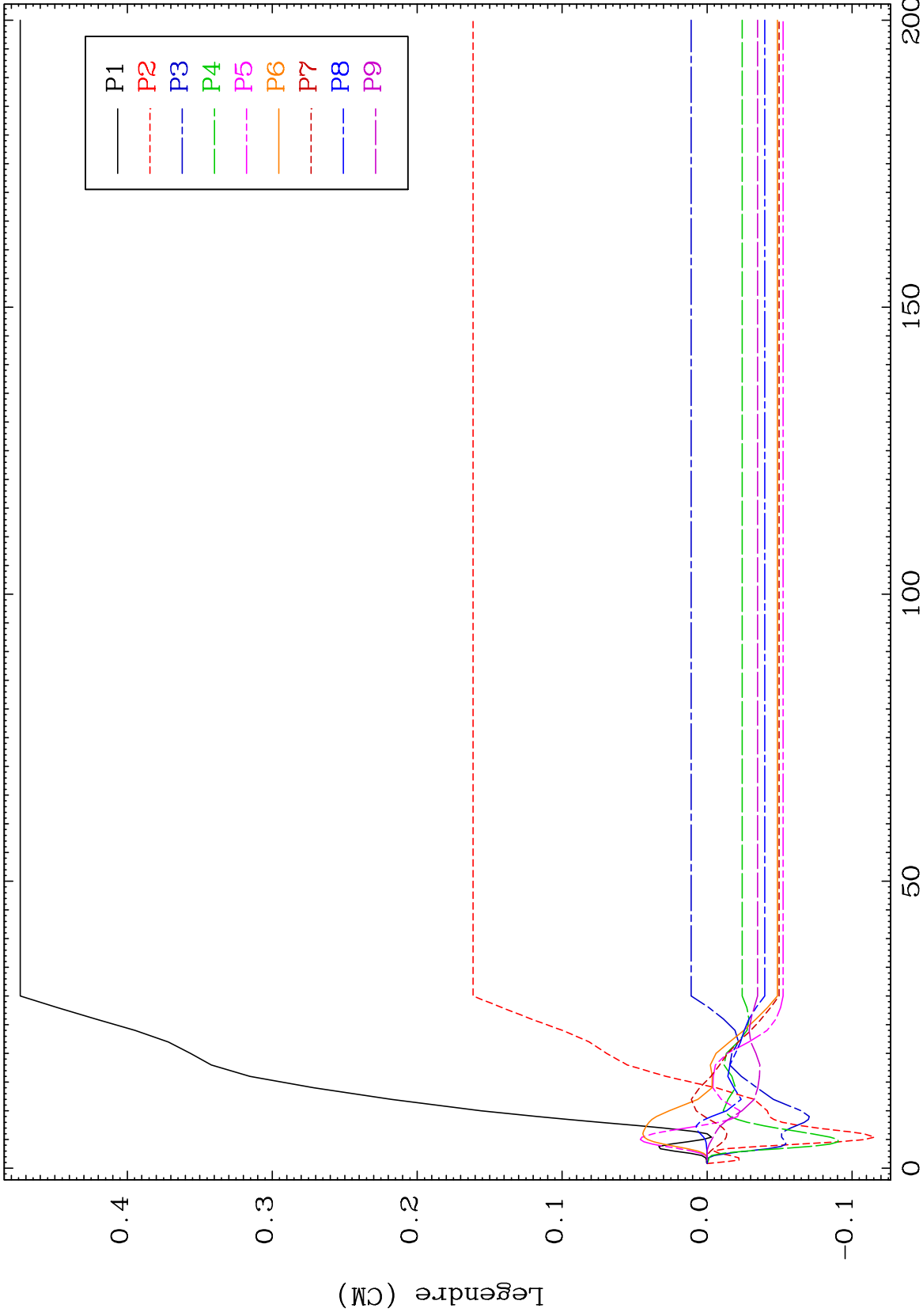


65 Incident Energy (MeV) 69-Tm-162

MAT 6904

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

69-Tm-162



66

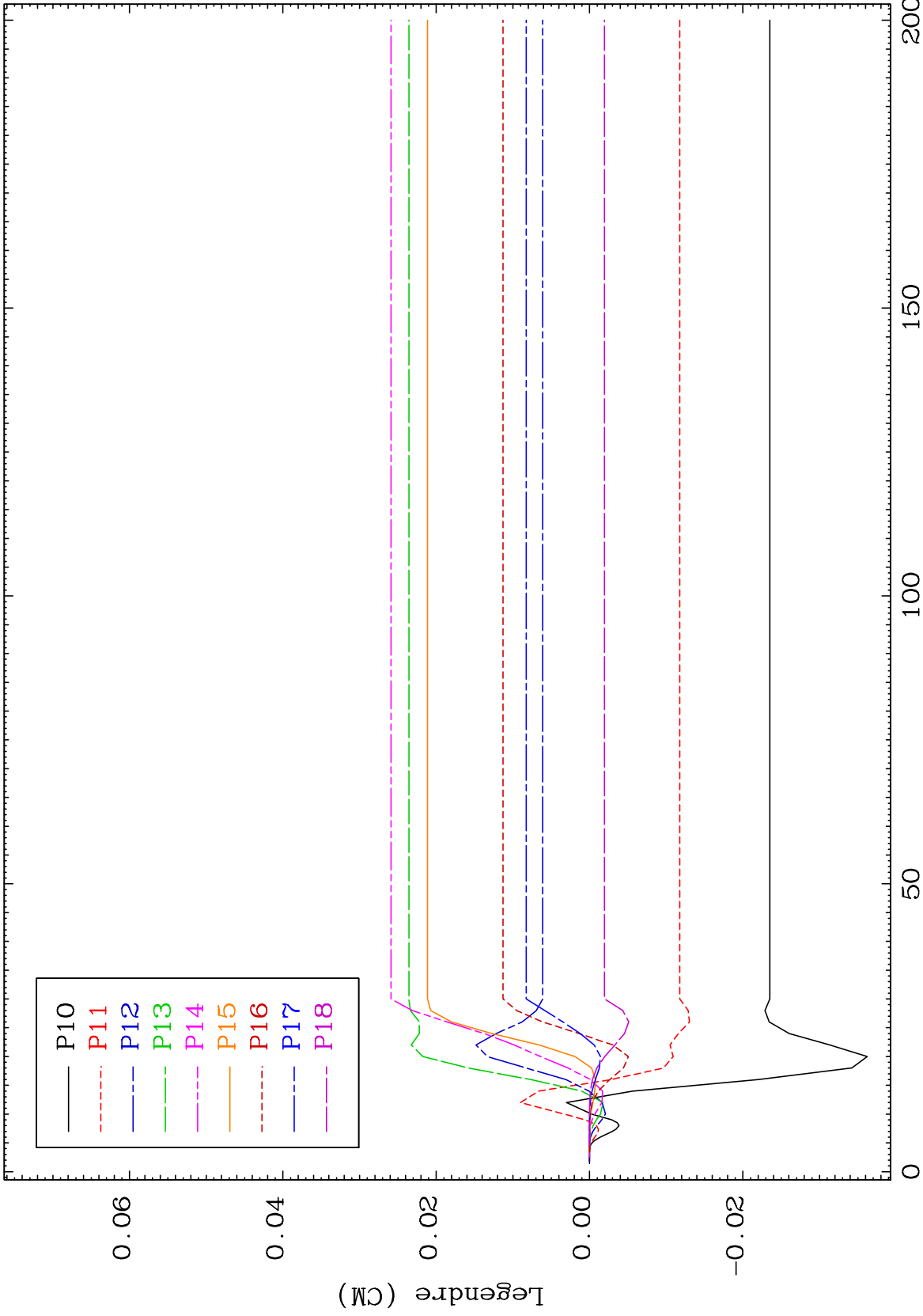
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



67

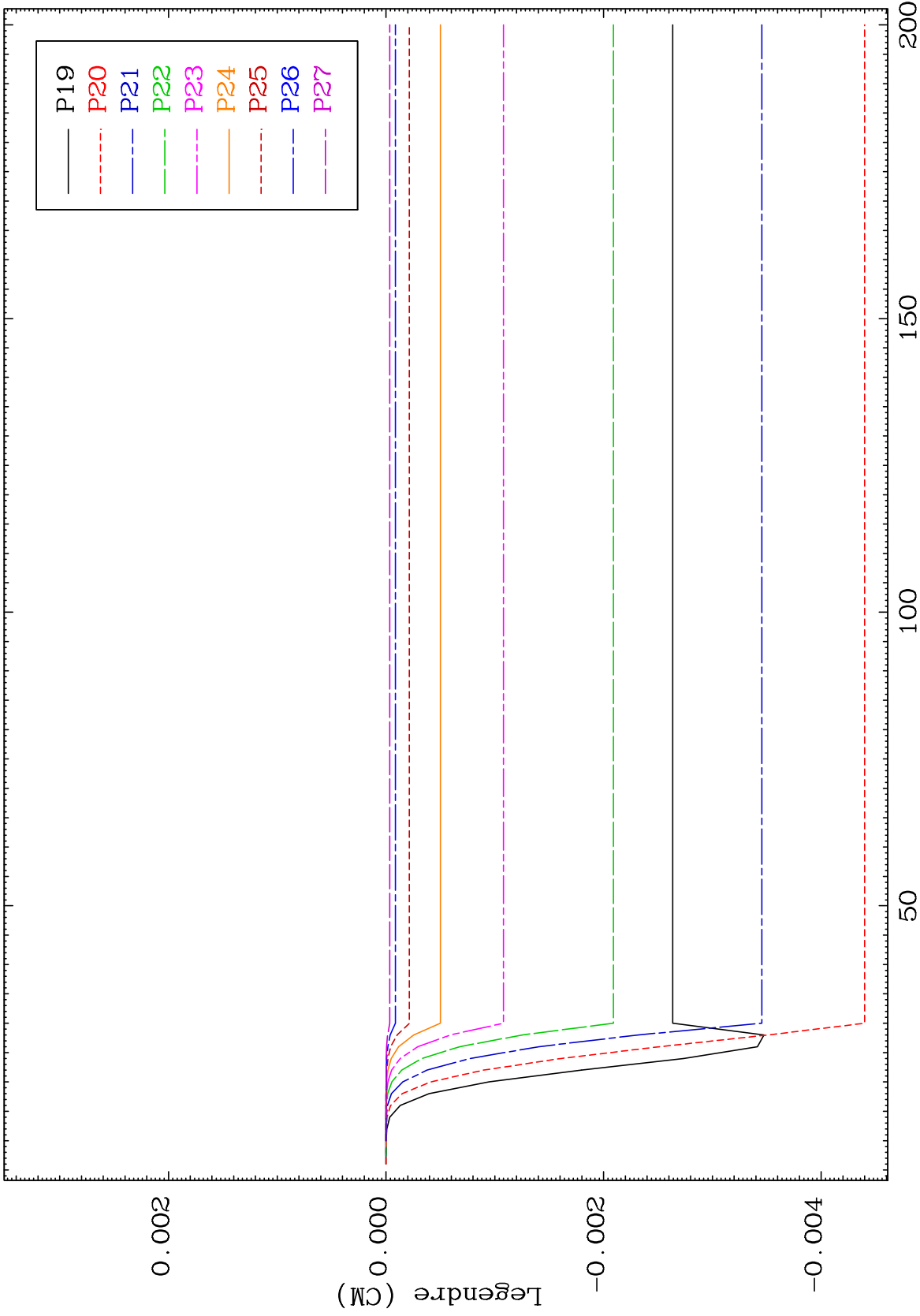
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



68

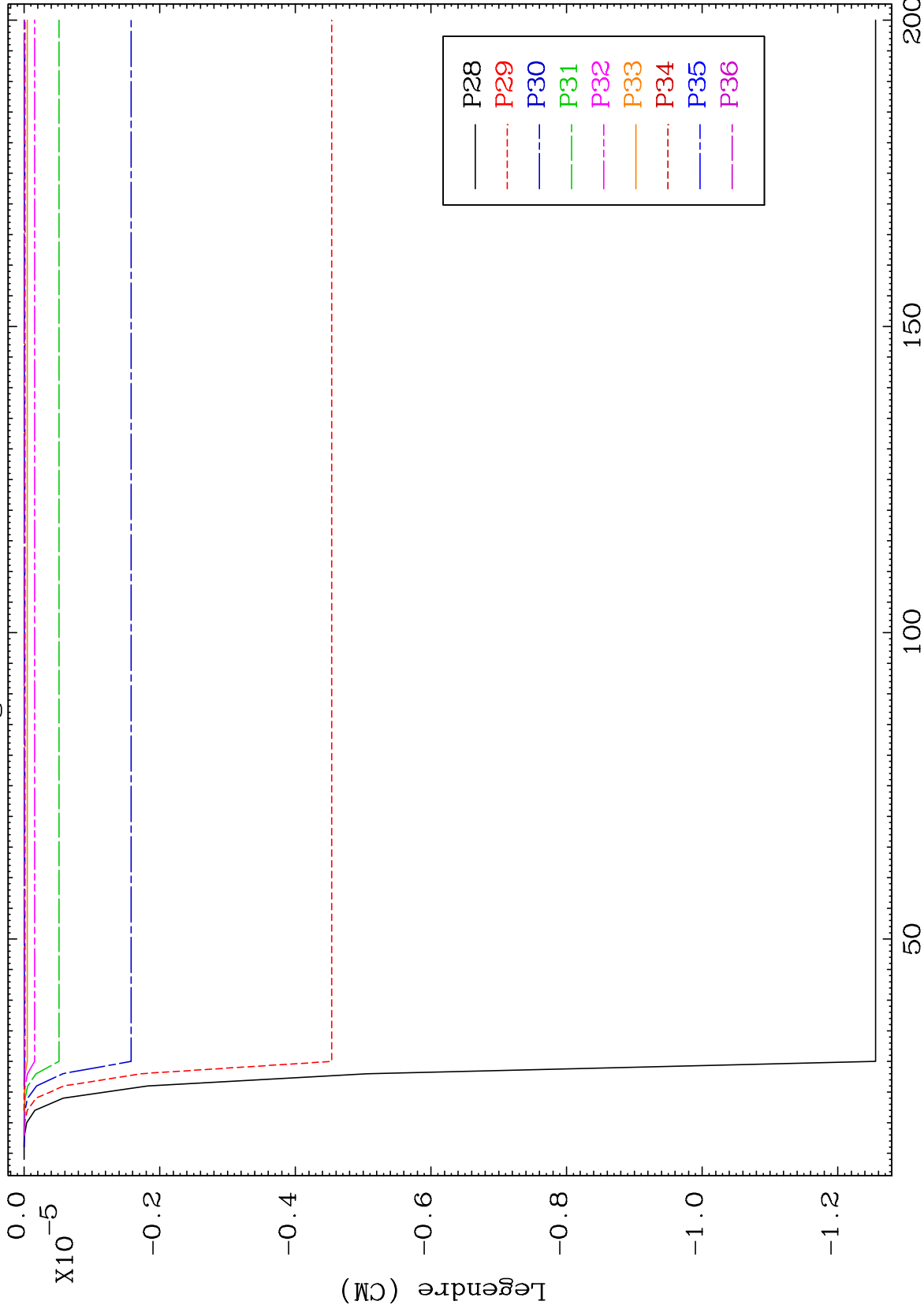
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



69-Tm-162

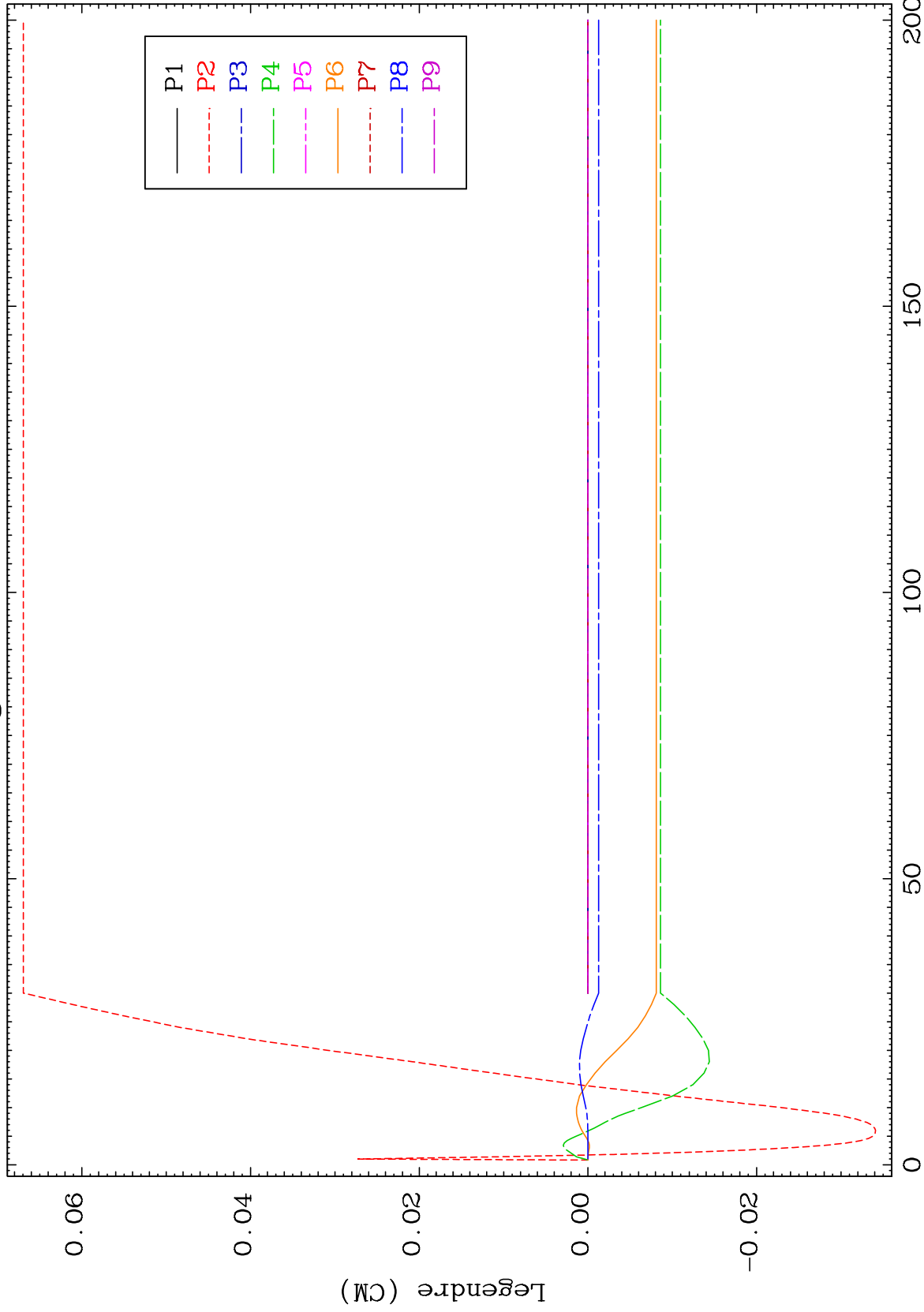
Incident Energy (MeV)

69

MAT 6904

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

69-Tm-162



70

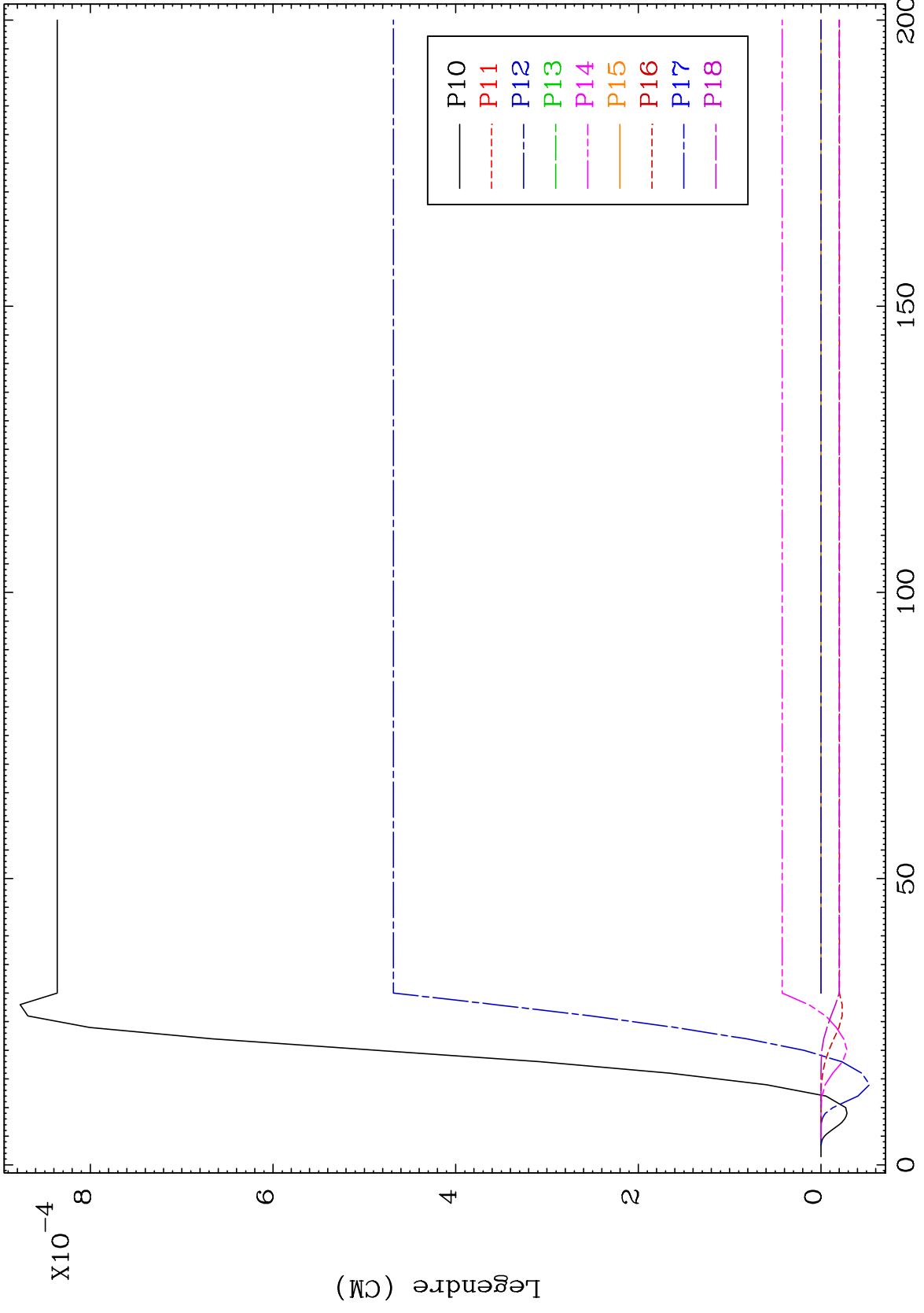
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



71

Incident Energy (MeV)

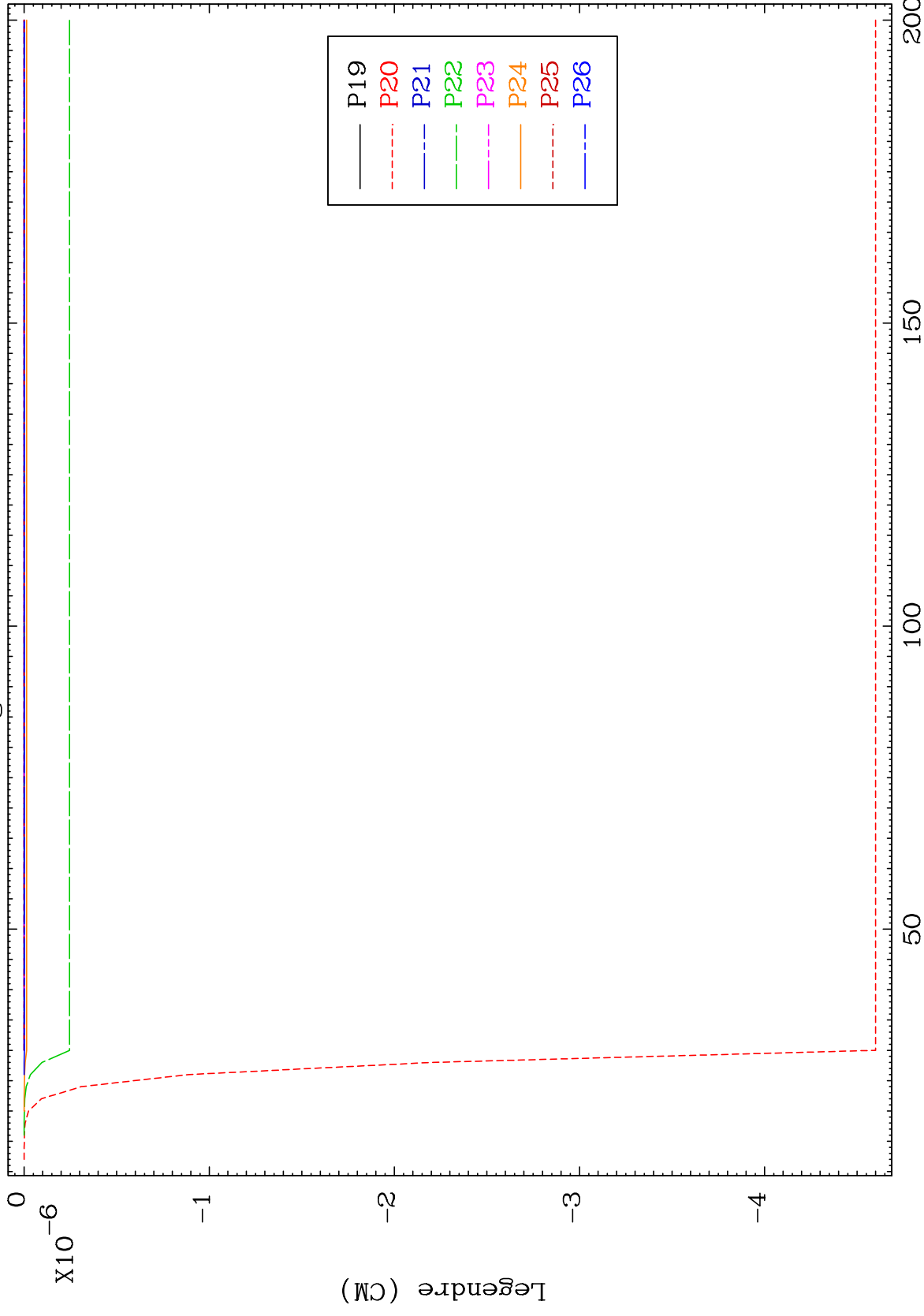
69-Tm-162



MAT 6904

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

69-Tm-162

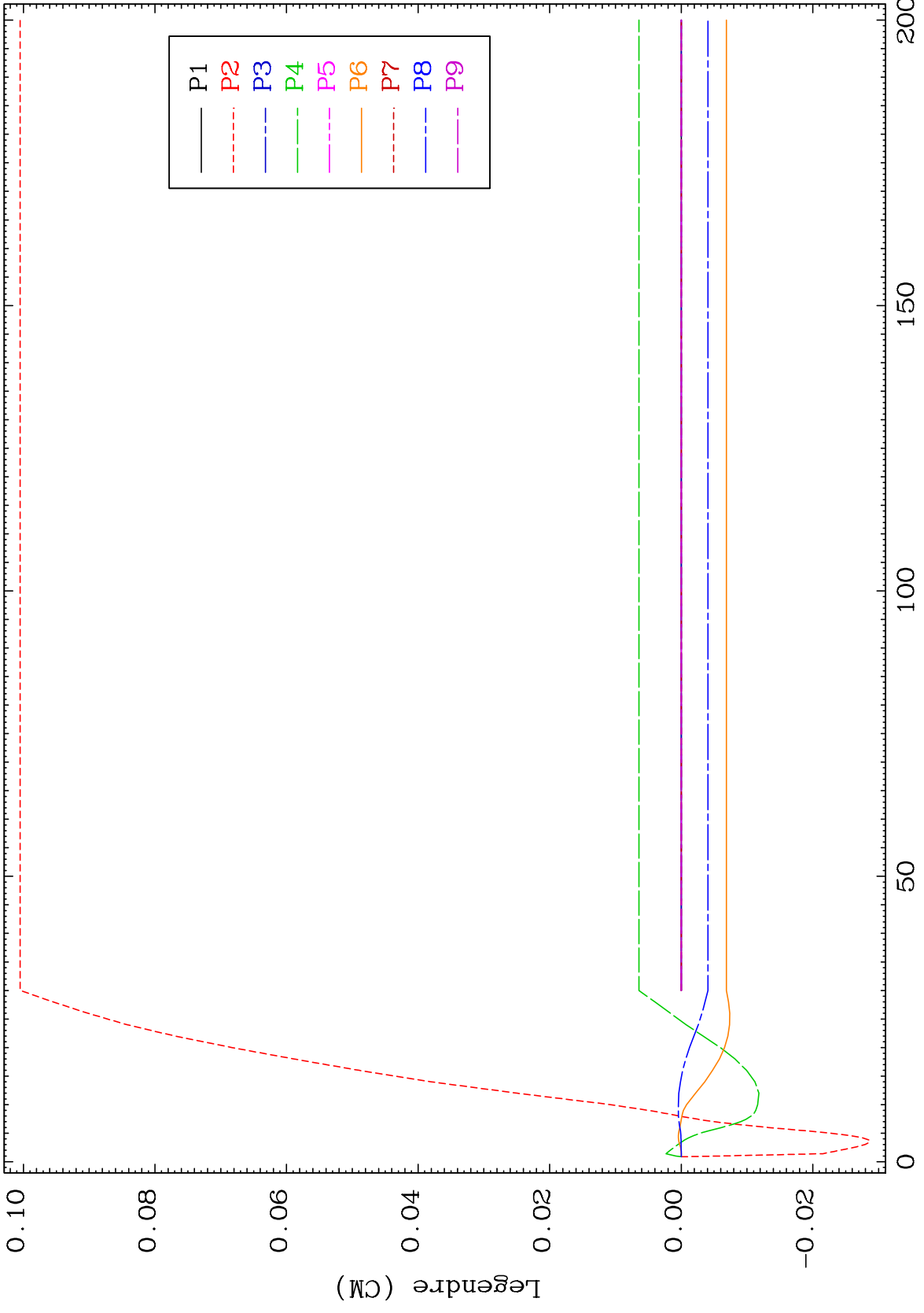


69-Tm-162

Incident Energy (MeV)

72

MAT 6904 MT= 68 (n,n') Level Legendre Coefficients 69-Tm-162

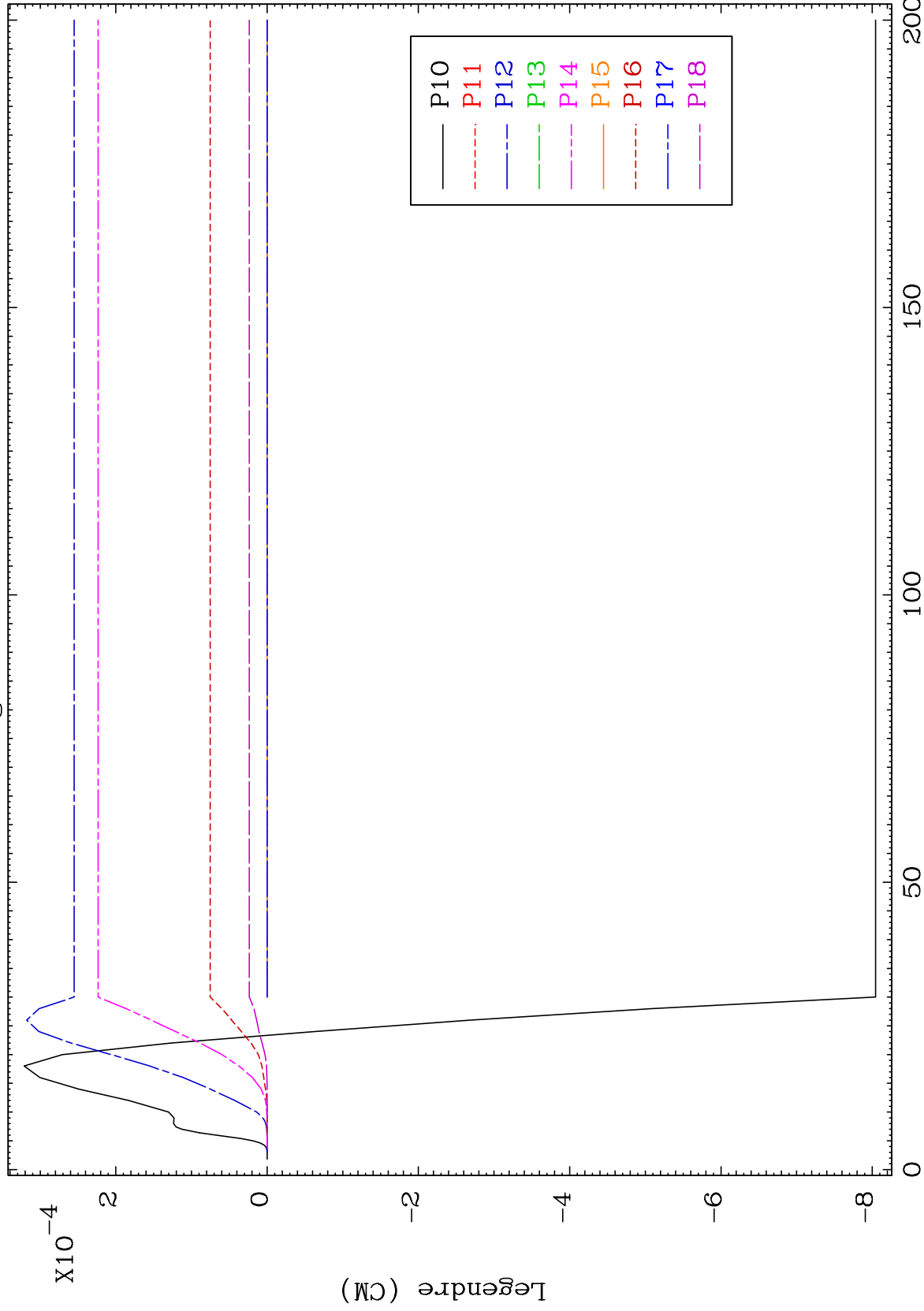


73 69-Tm-162

MAT 6904

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

69-Tm-162

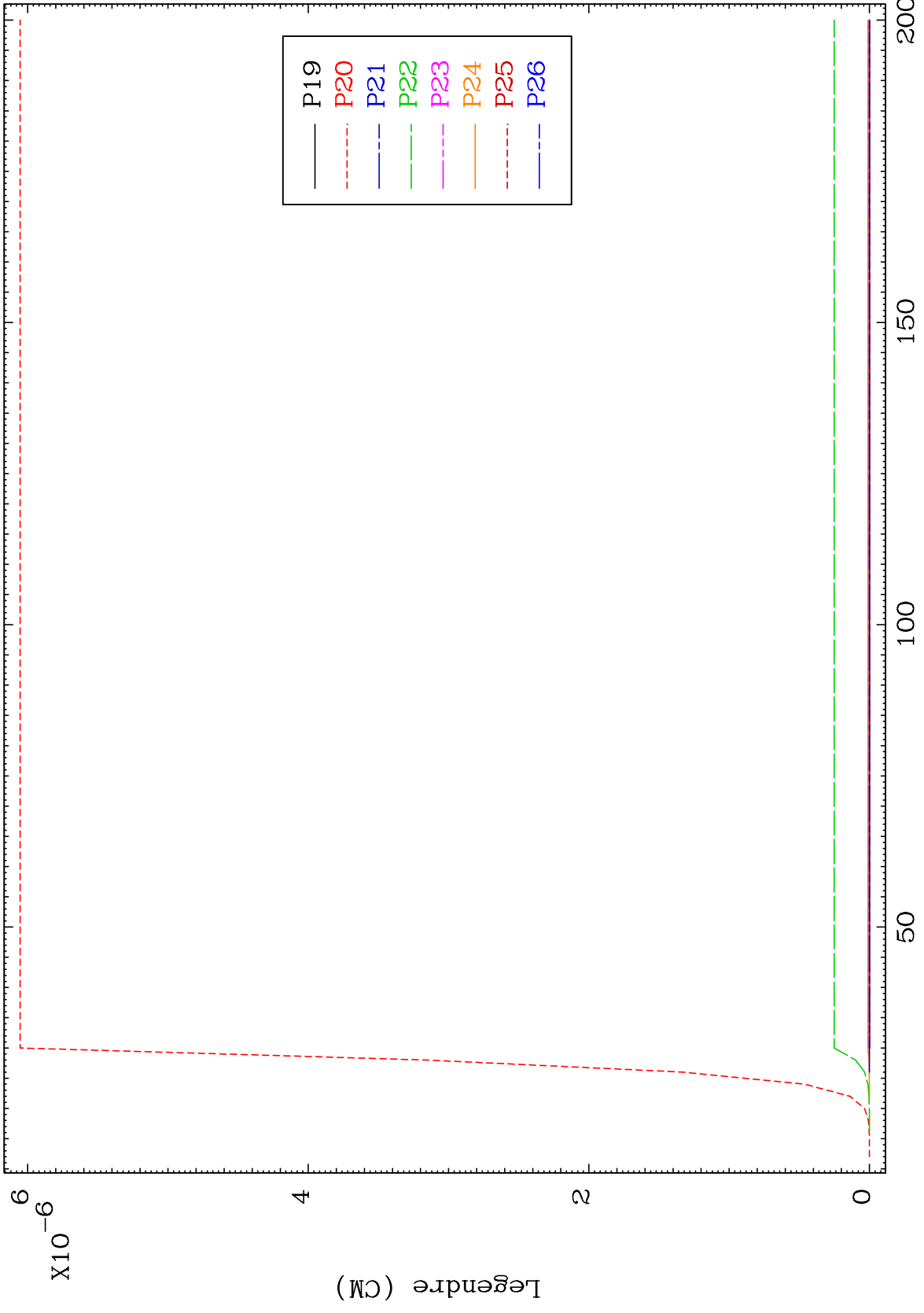


74

Incident Energy (MeV)

69-Tm-162

MAT 6904 MT= 68 (n,n') Level Legendre Coefficients 69-Tm-162

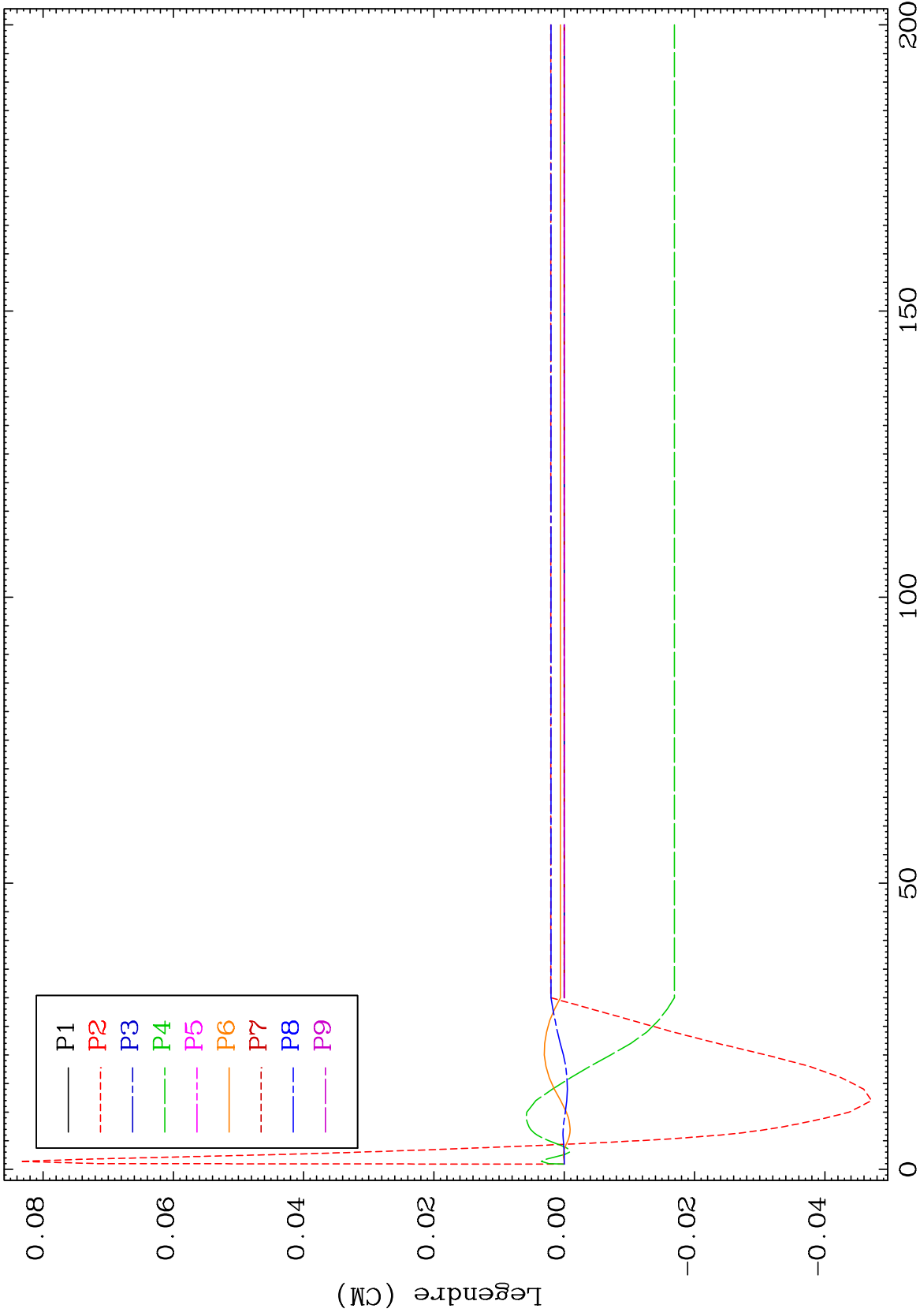


75 Incident Energy (MeV) 69-Tm-162

MAT 6904

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

69-Tm-162



76

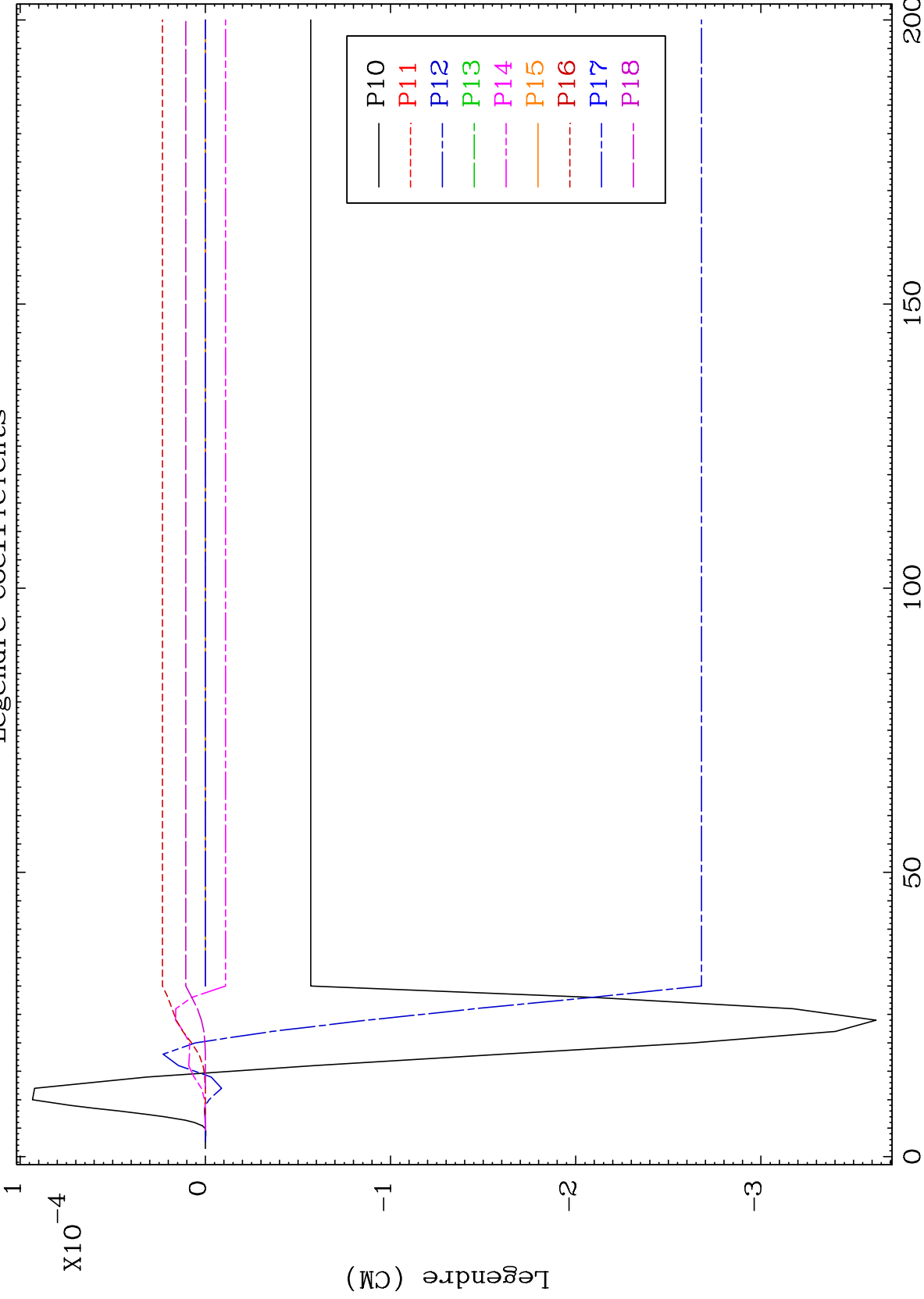
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



77

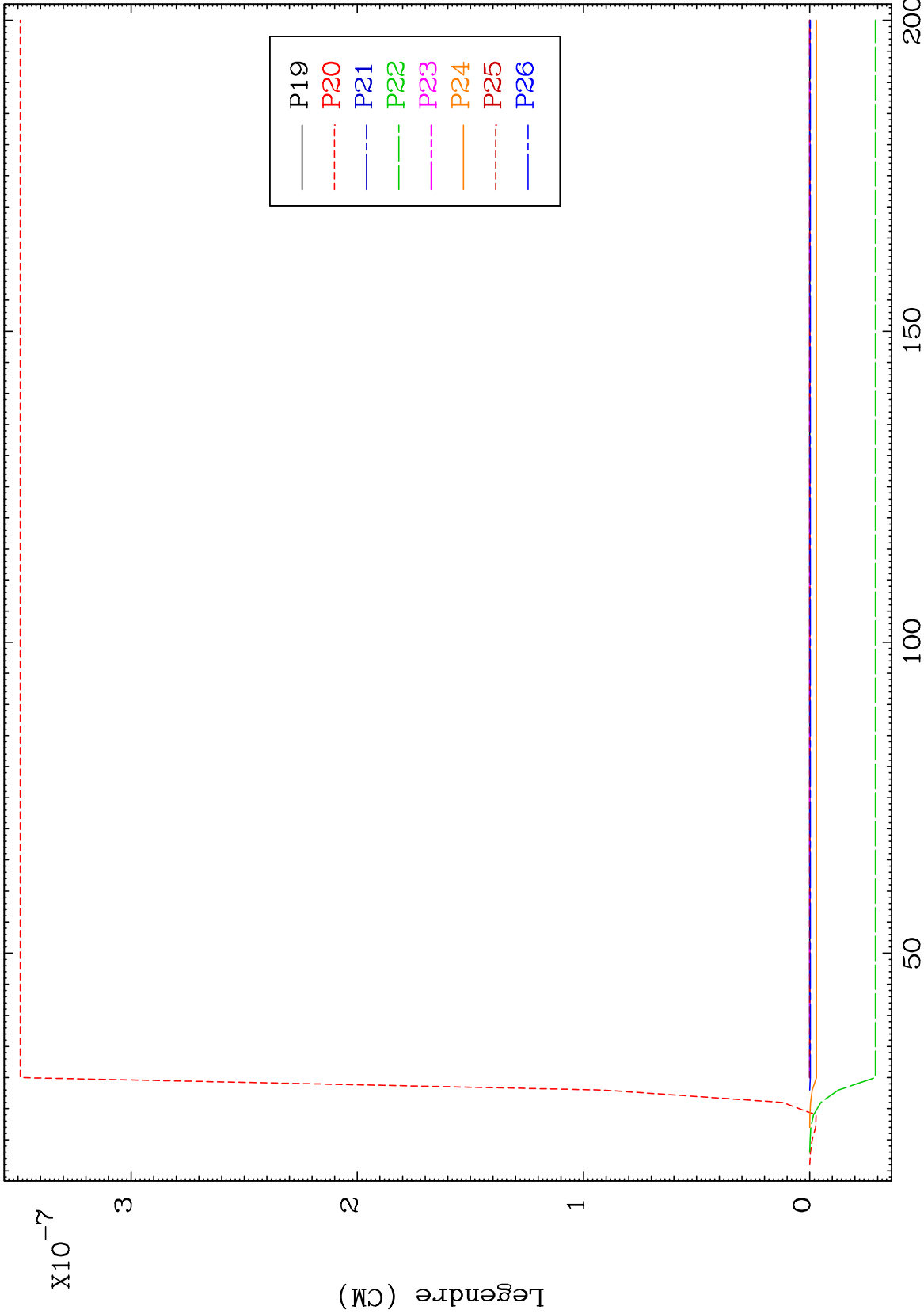
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



78

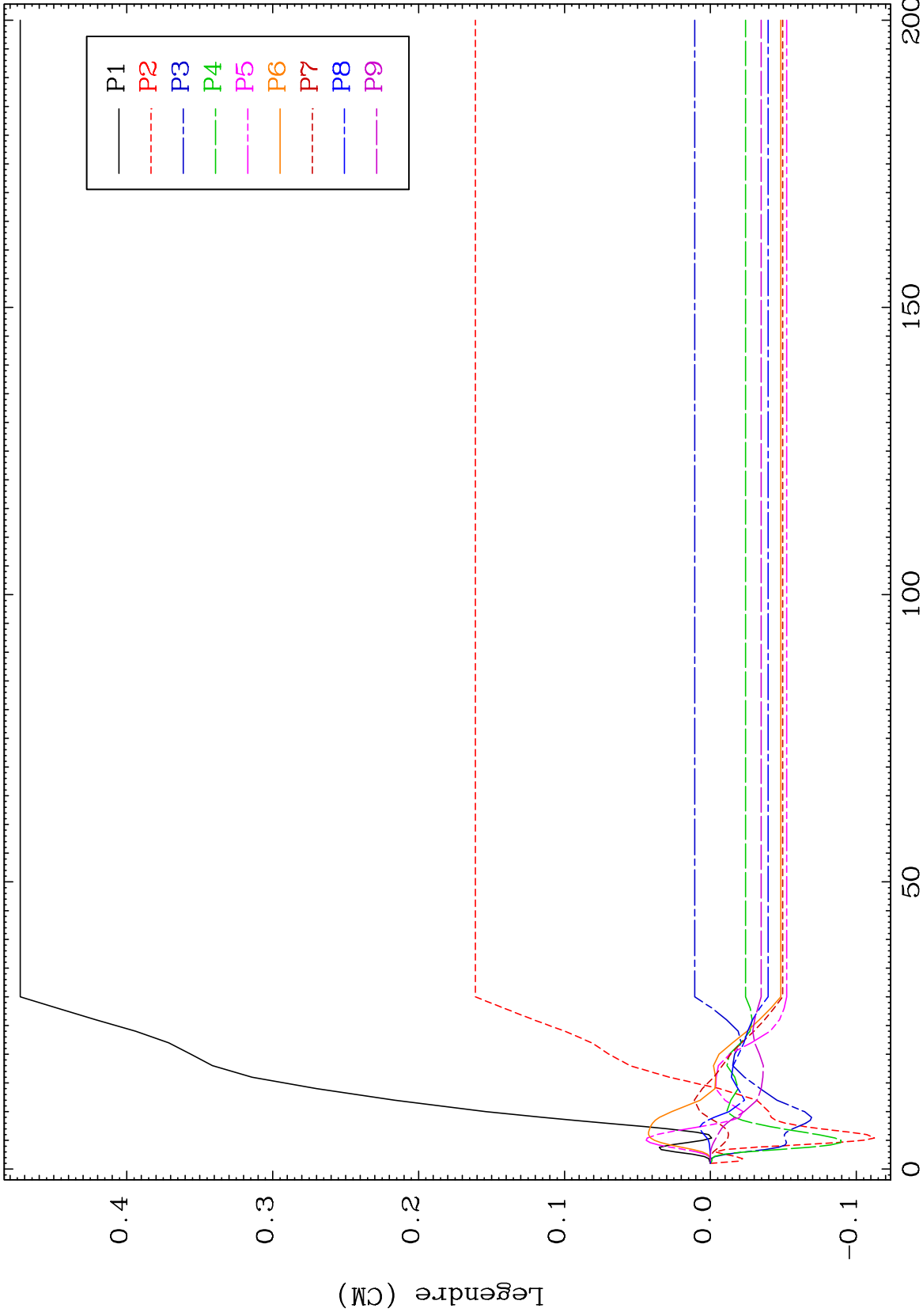
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



79

Incident Energy (MeV)

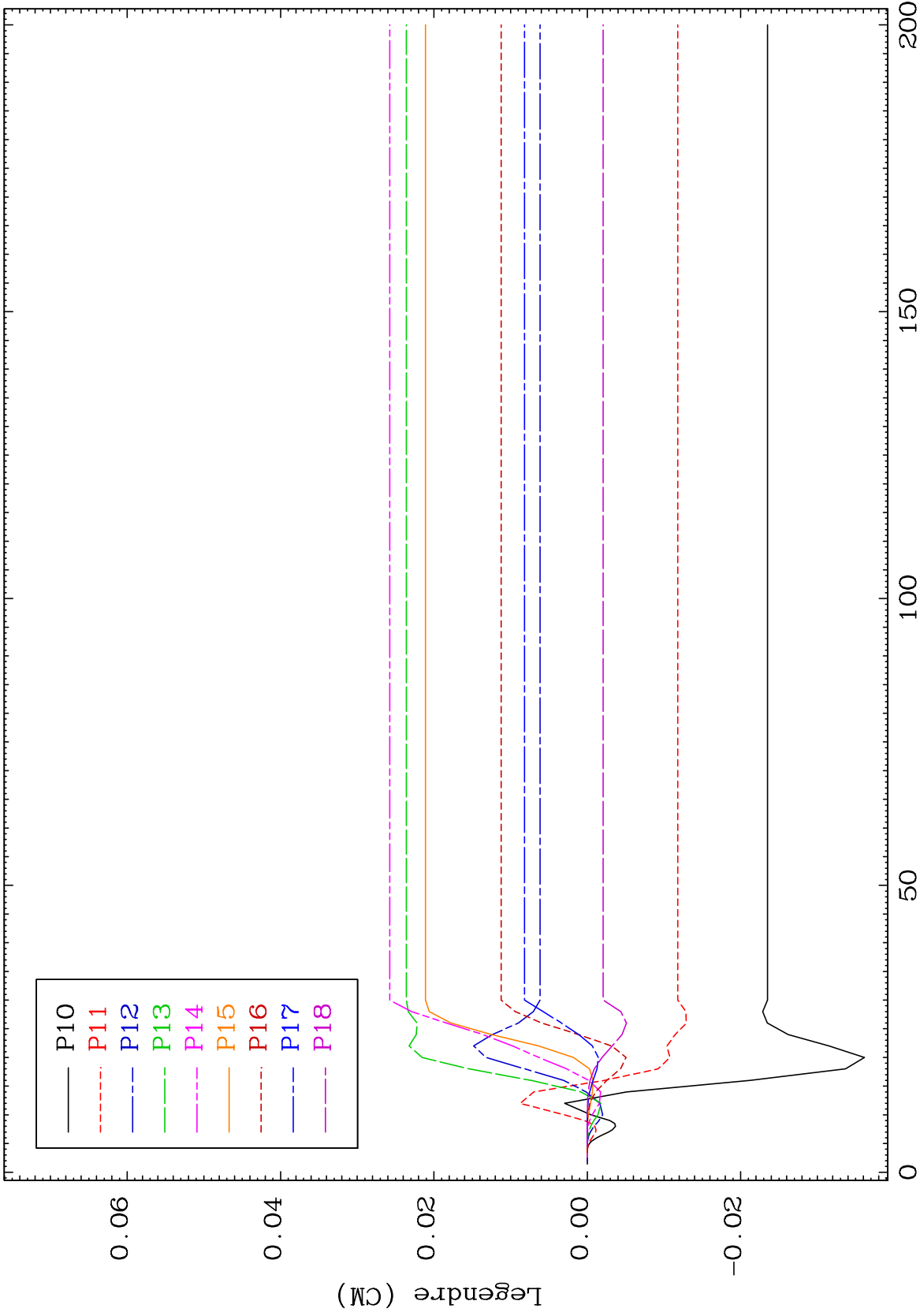
69-Tm-162



MAT 6904

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

69-Tm-162



0

50

100

150

200

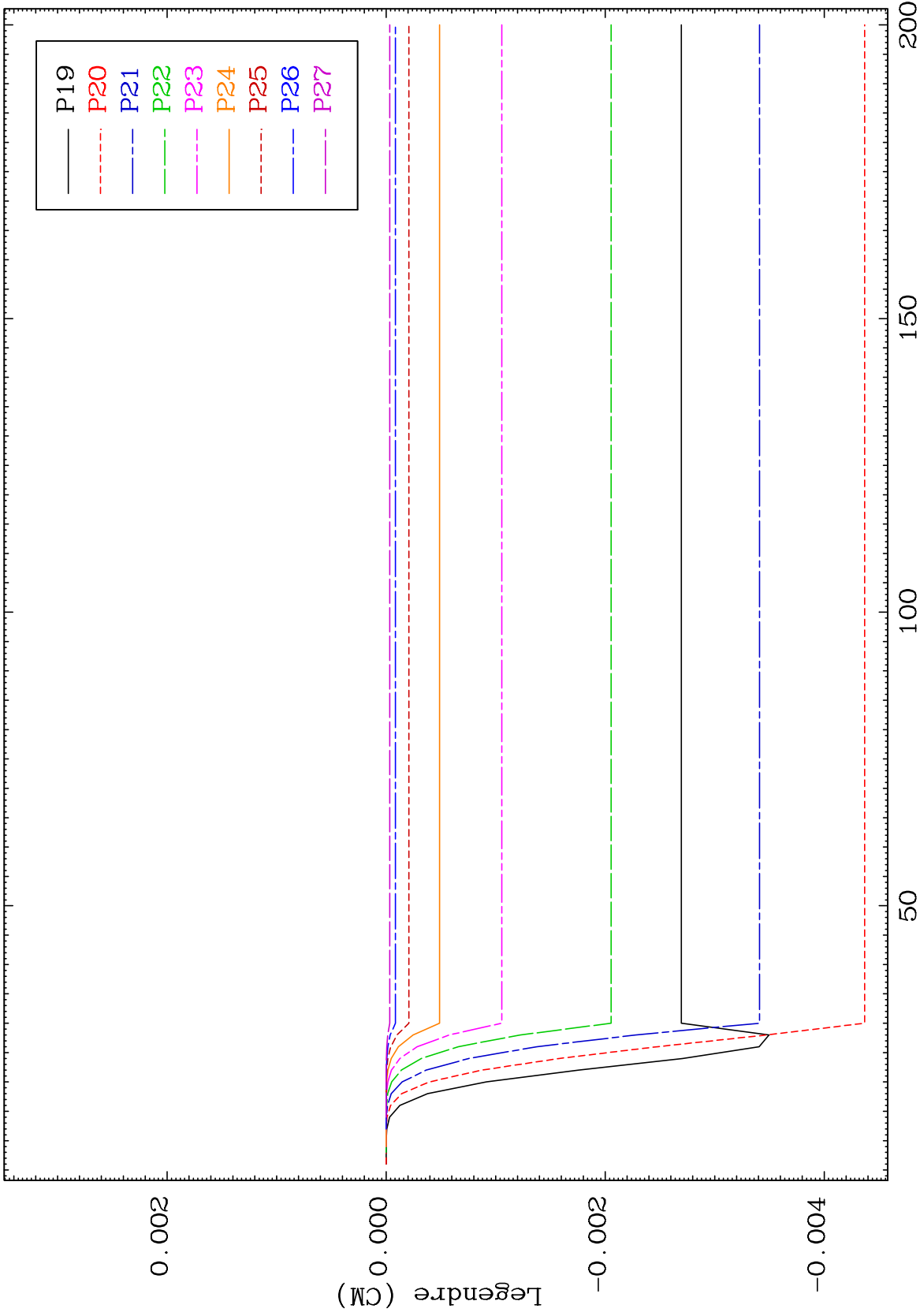
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



81

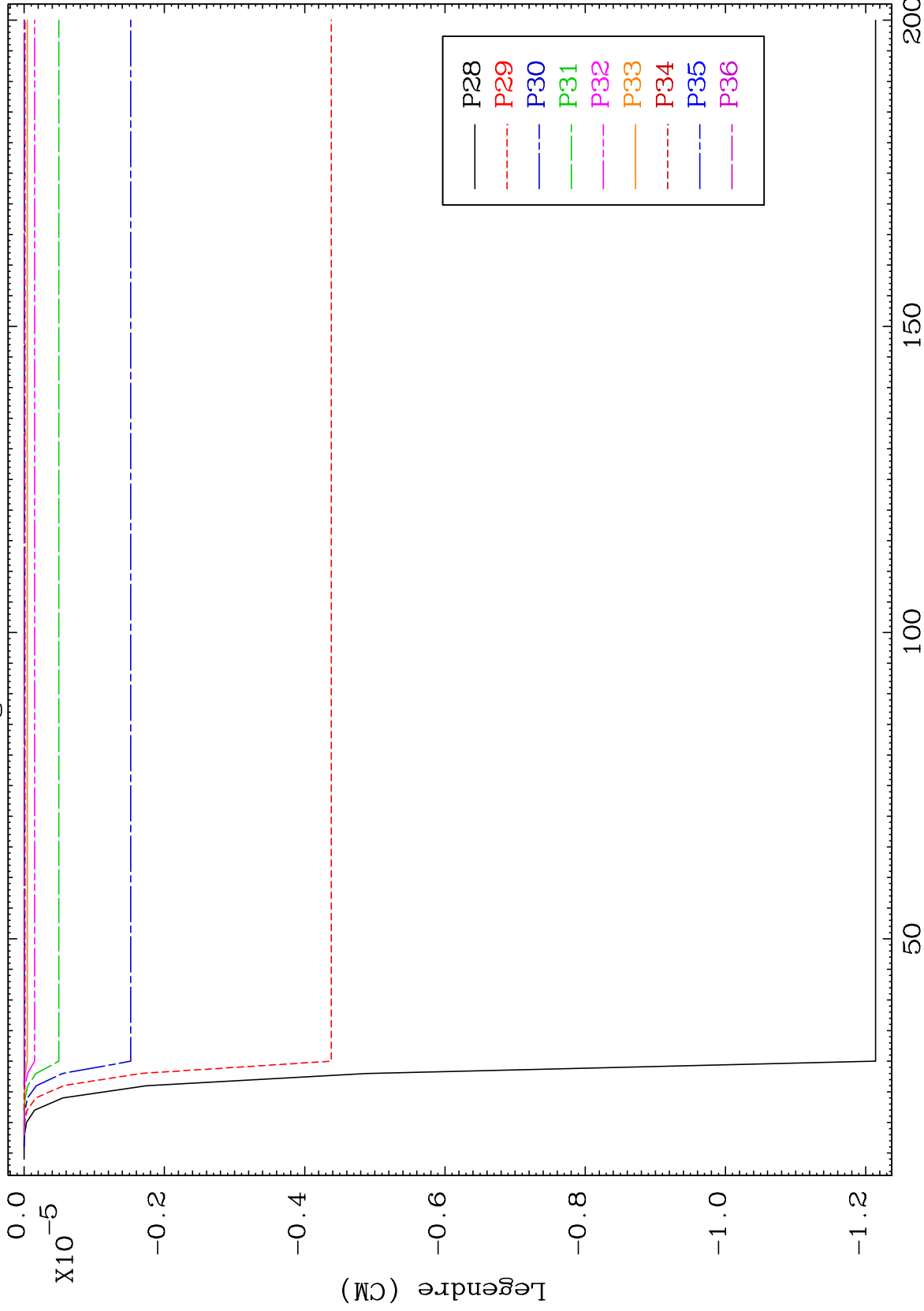
Incident Energy (MeV)

69-Tm-162

MAT 6904

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

69-Tm-162



69-Tm-162

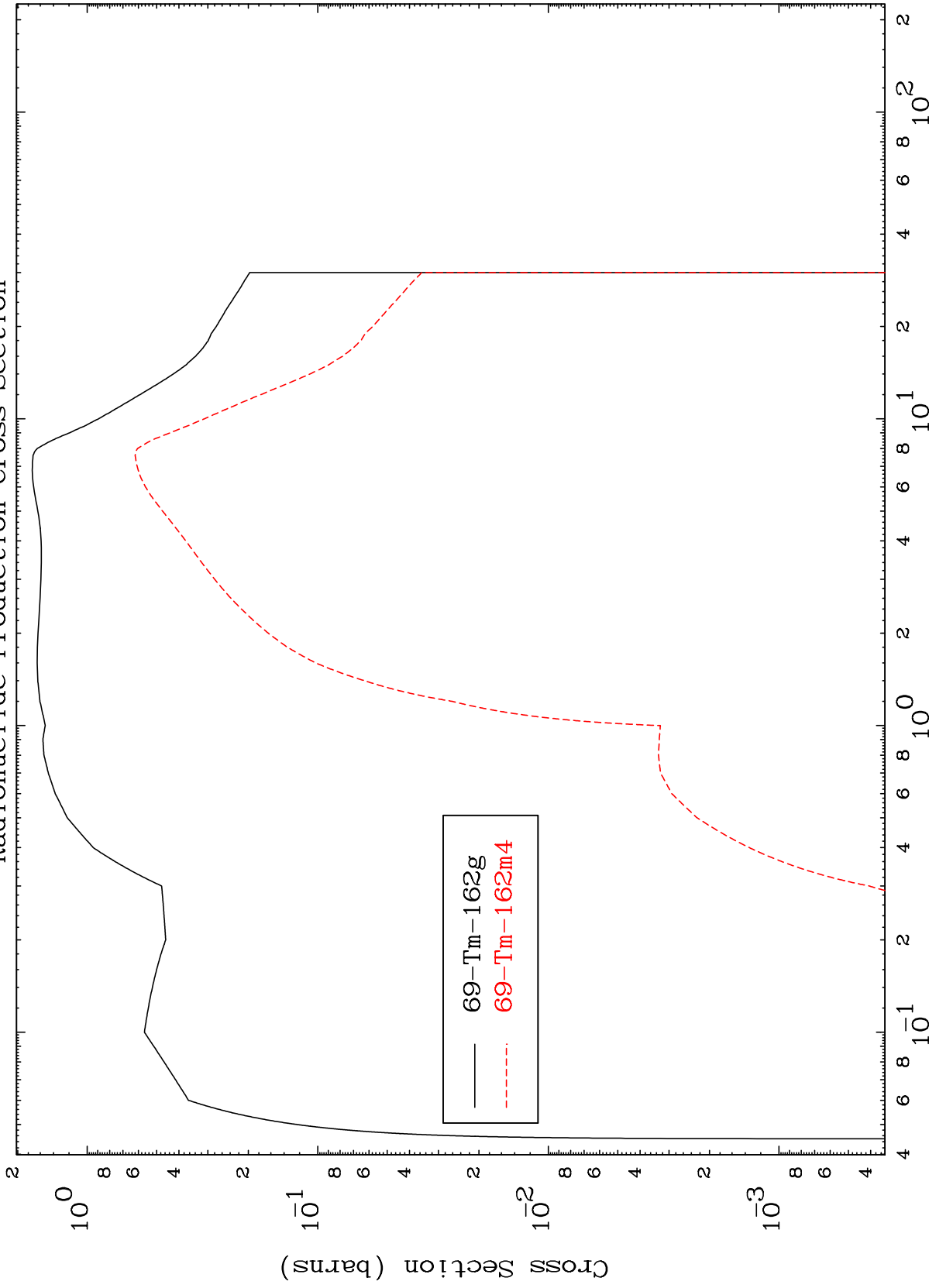
Incident Energy (MeV)

82

MAT 6904

69-Tm-162

### Inelastic Radionuclide Production Cross Section



83

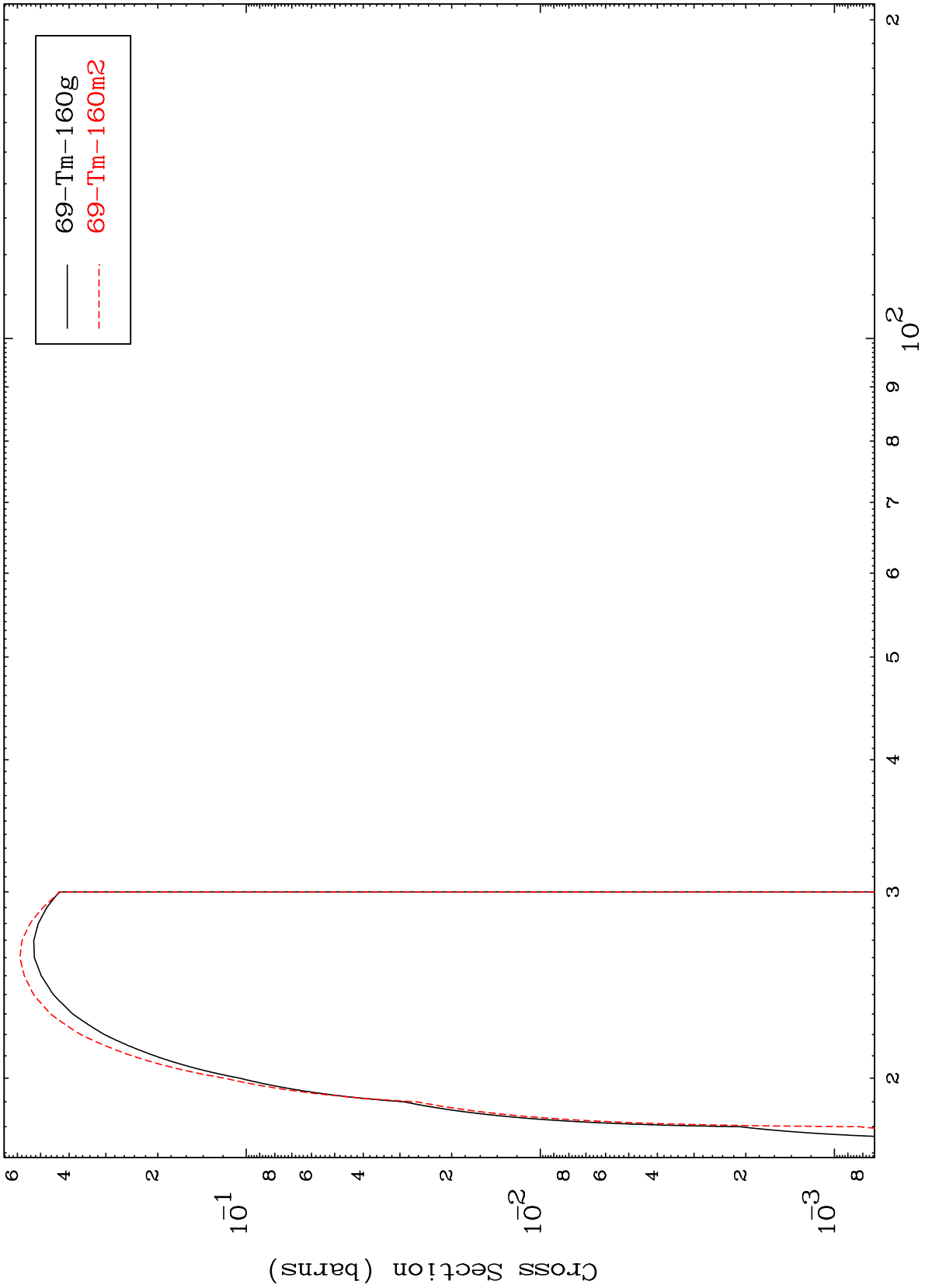
69-Tm-162

MAT 6904

(n,3n)

69-Tm-162

Radionuclide Production Cross Section



84

Incident Energy (MeV)

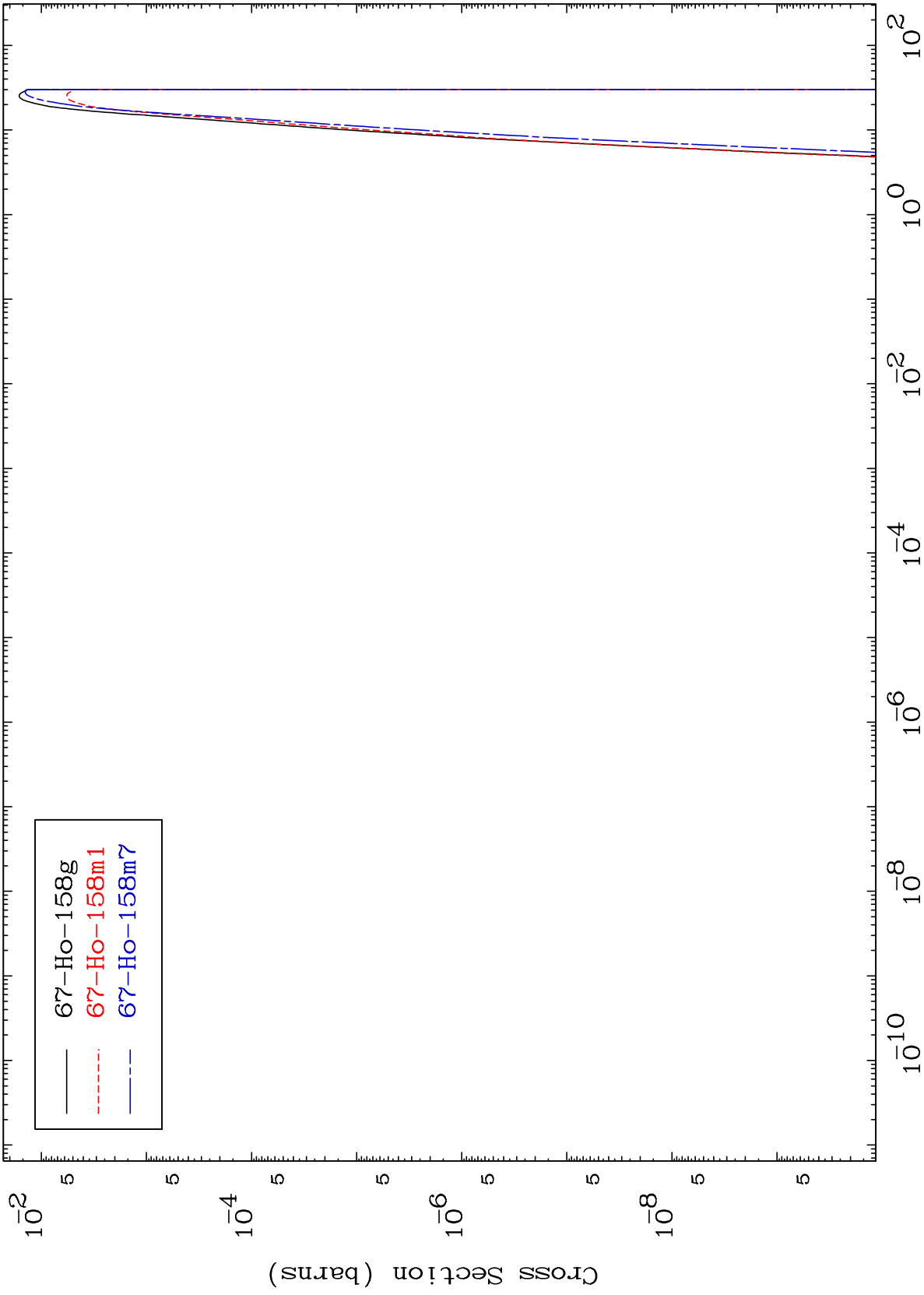
69-Tm-162

MAT 6904

(n,n')  $\alpha$

69-Tm-162

Radionuclide Production Cross Section



85

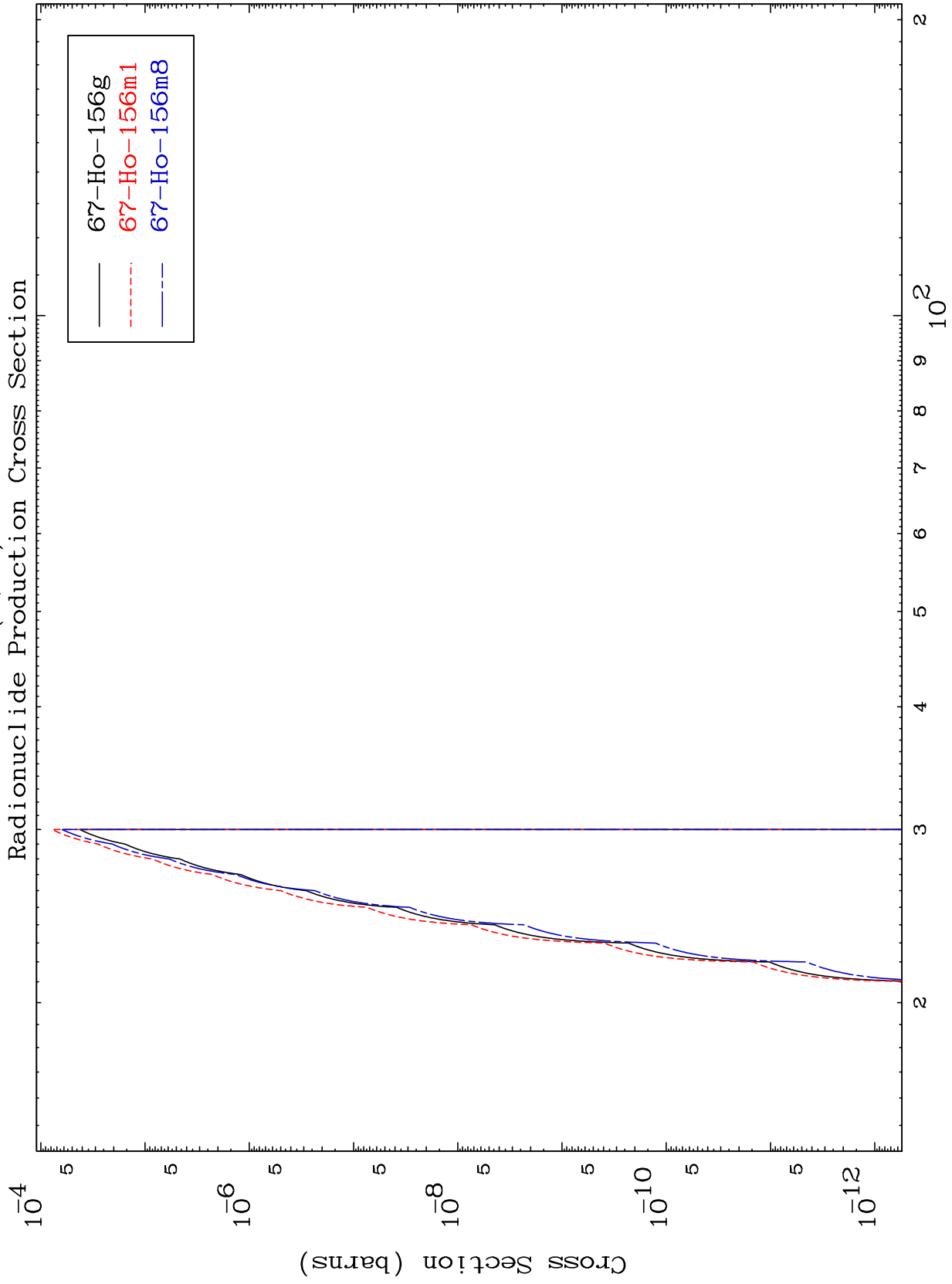
Incident Energy (MeV)

69-Tm-162

MAT 6904

(n,3n)  $\alpha$

69-Tm-162



86

Incident Energy (MeV)

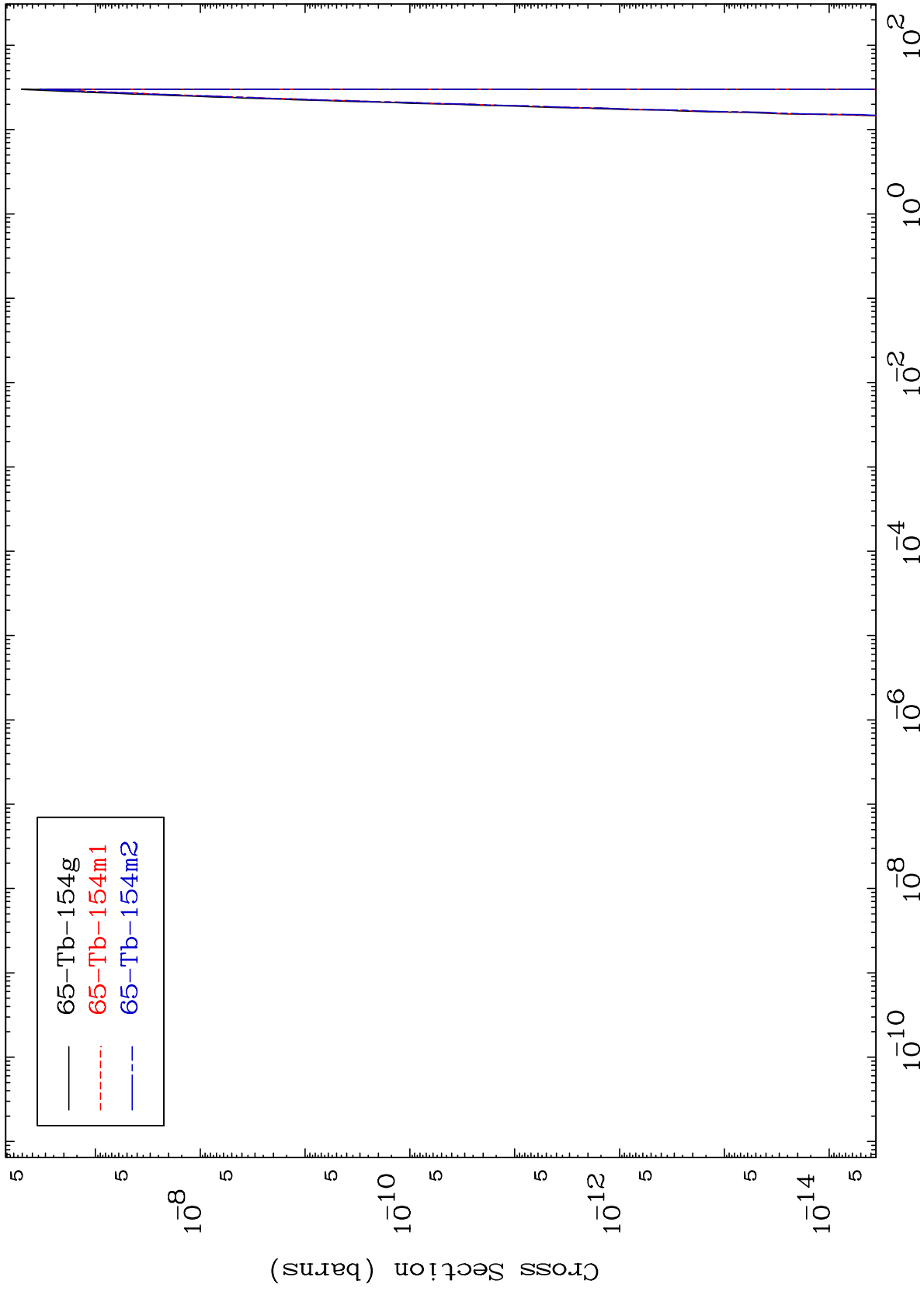
69-Tm-162

MAT 6904

(n,n') 2 $\alpha$

69-Tm-162

Radionuclide Production Cross Section



87

Incident Energy (MeV)

69-Tm-162

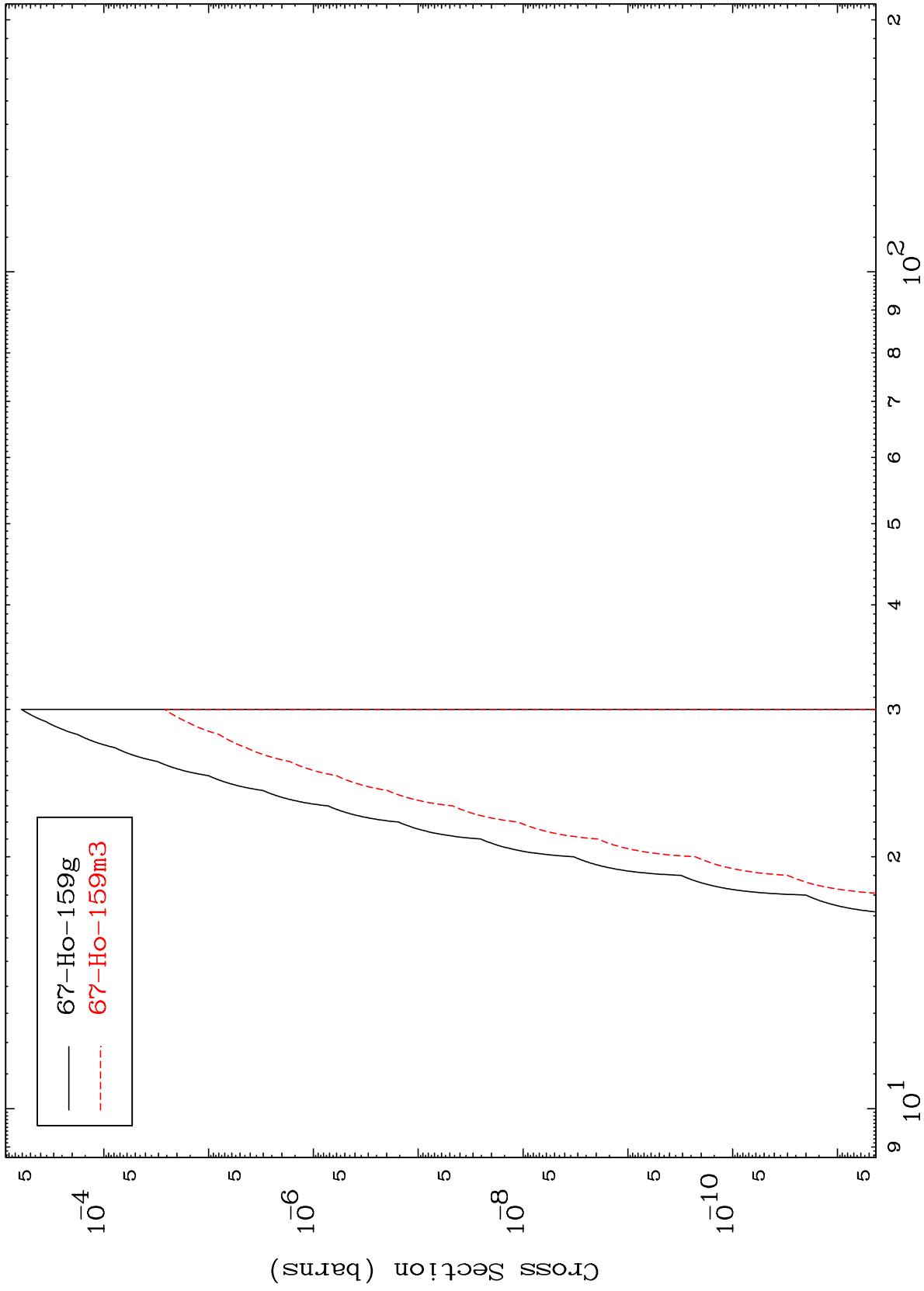


MAT 6904

(n, n') He-3

69-Tm-162

Radionuclide Production Cross Section



88

Incident Energy (MeV)

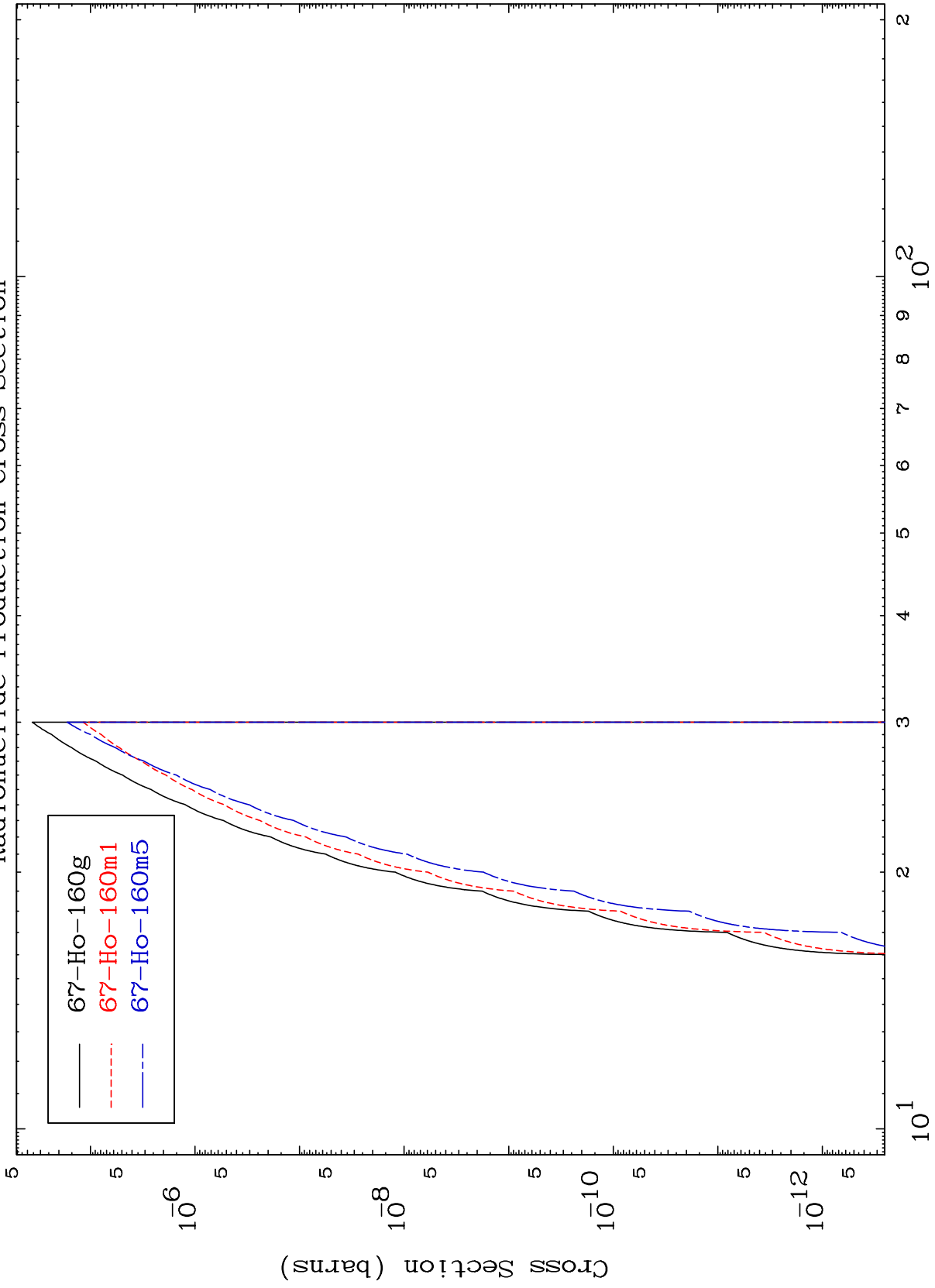
69-Tm-162

MAT 6904

(n,2n) p

69-Tm-162

Radionuclide Production Cross Section



89

Incident Energy (MeV)

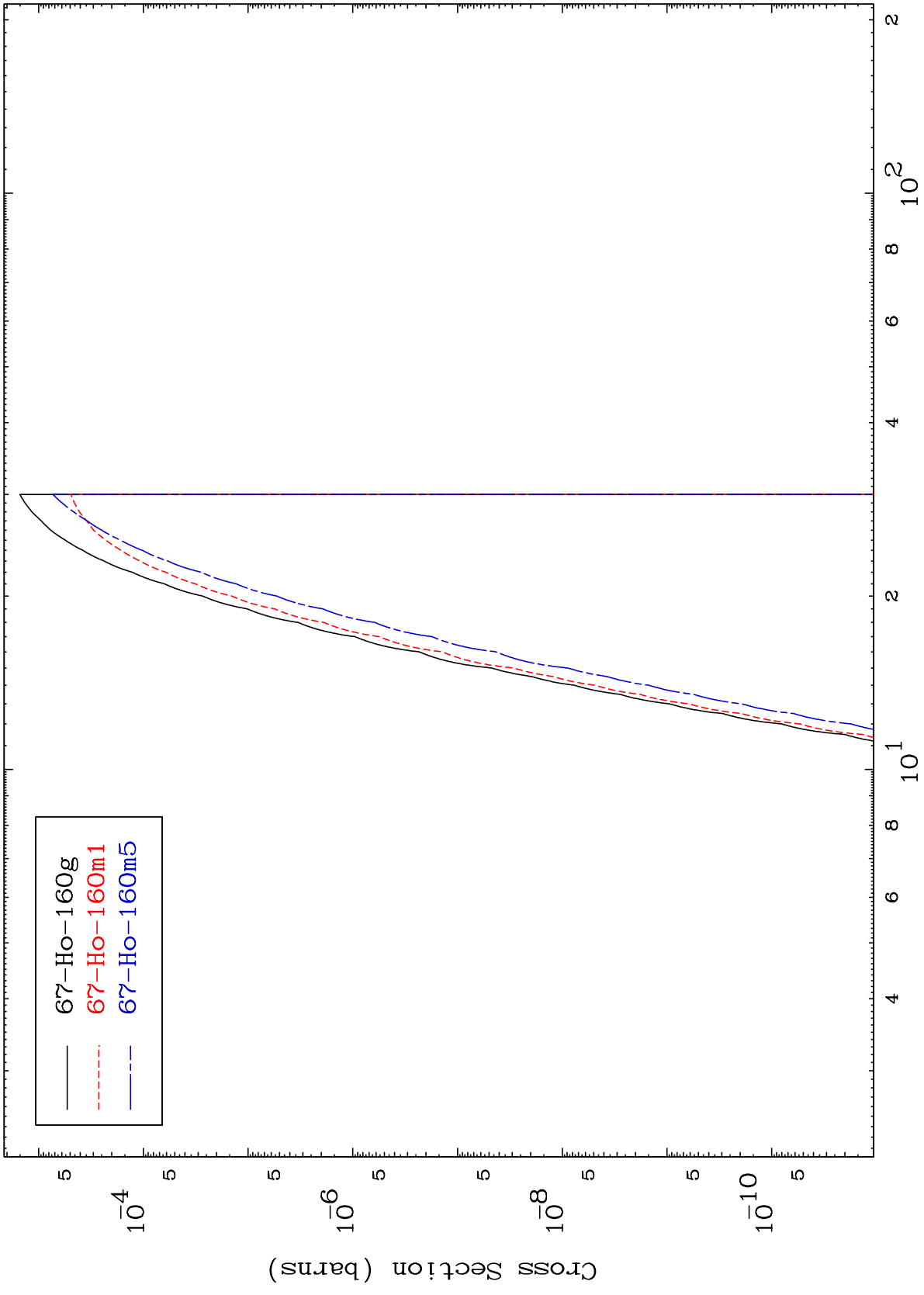
69-Tm-162

MAT 6904

(n, He-3)

69-Tm-162

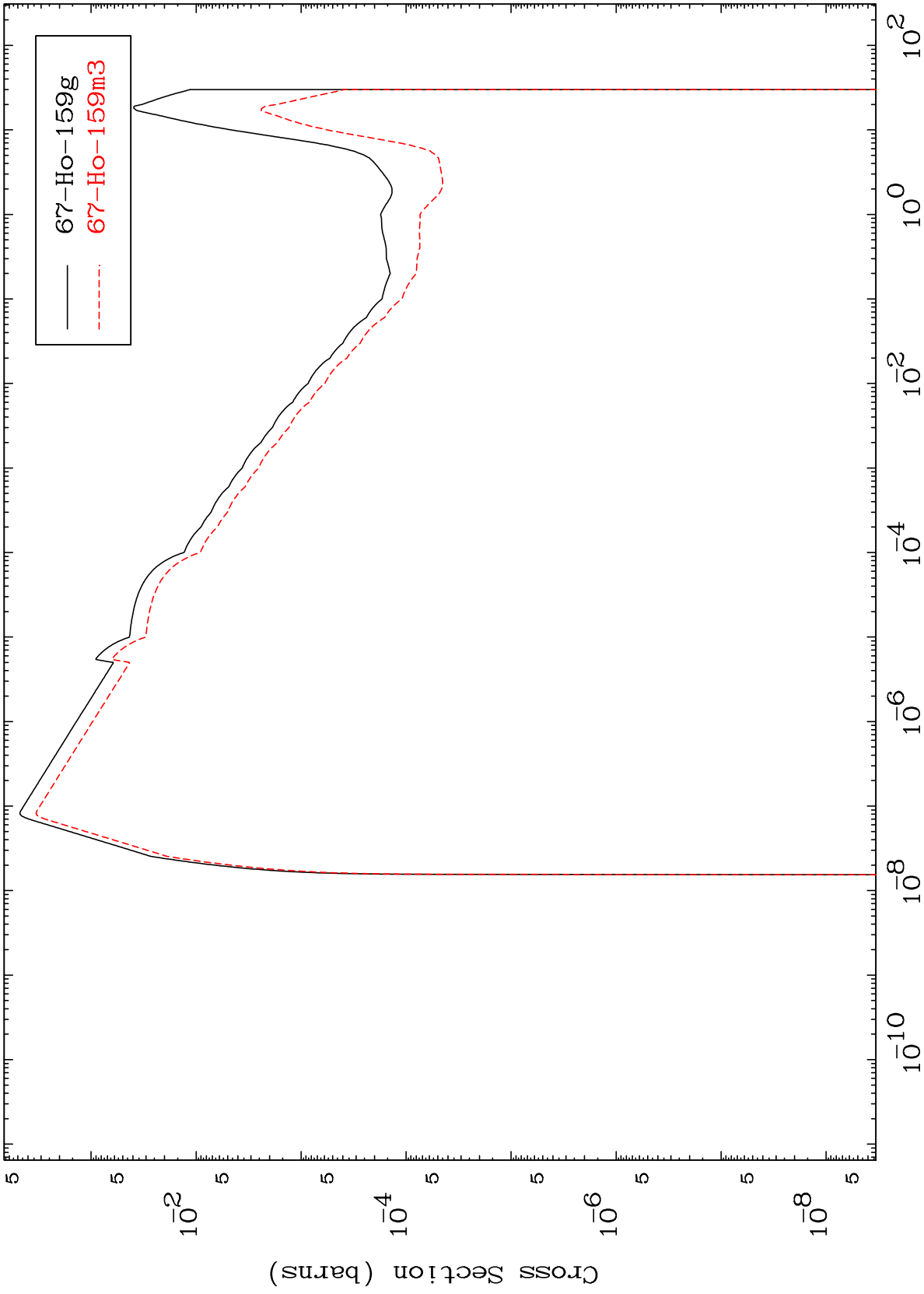
Radionuclide Production Cross Section



MAT 6904

69-Tm-162

(n,α)  
Radionuclide Production Cross Section



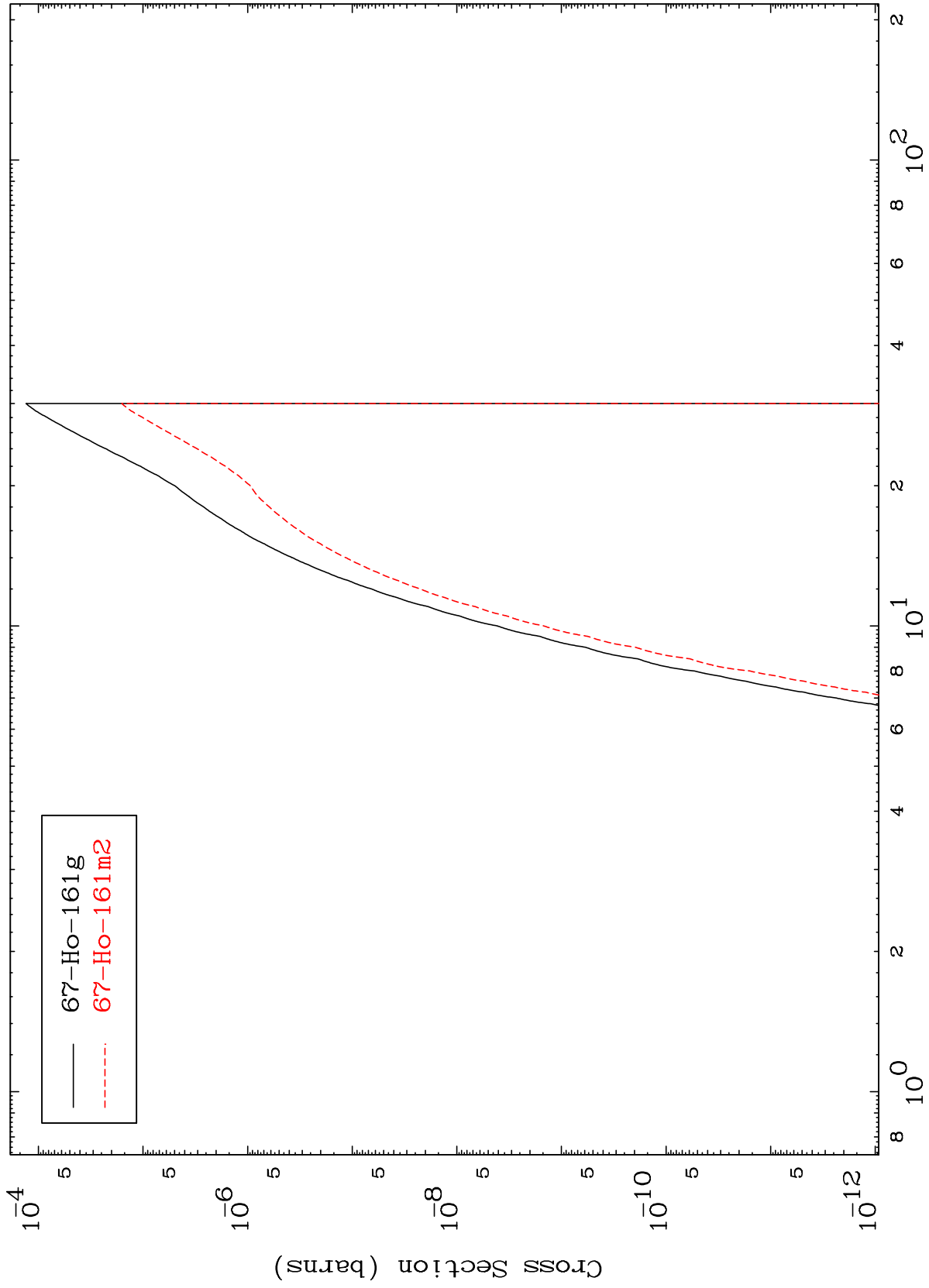
91

69-Tm-162

MAT 6904

69-Tm-162

Radionuclide Production Cross Section



92

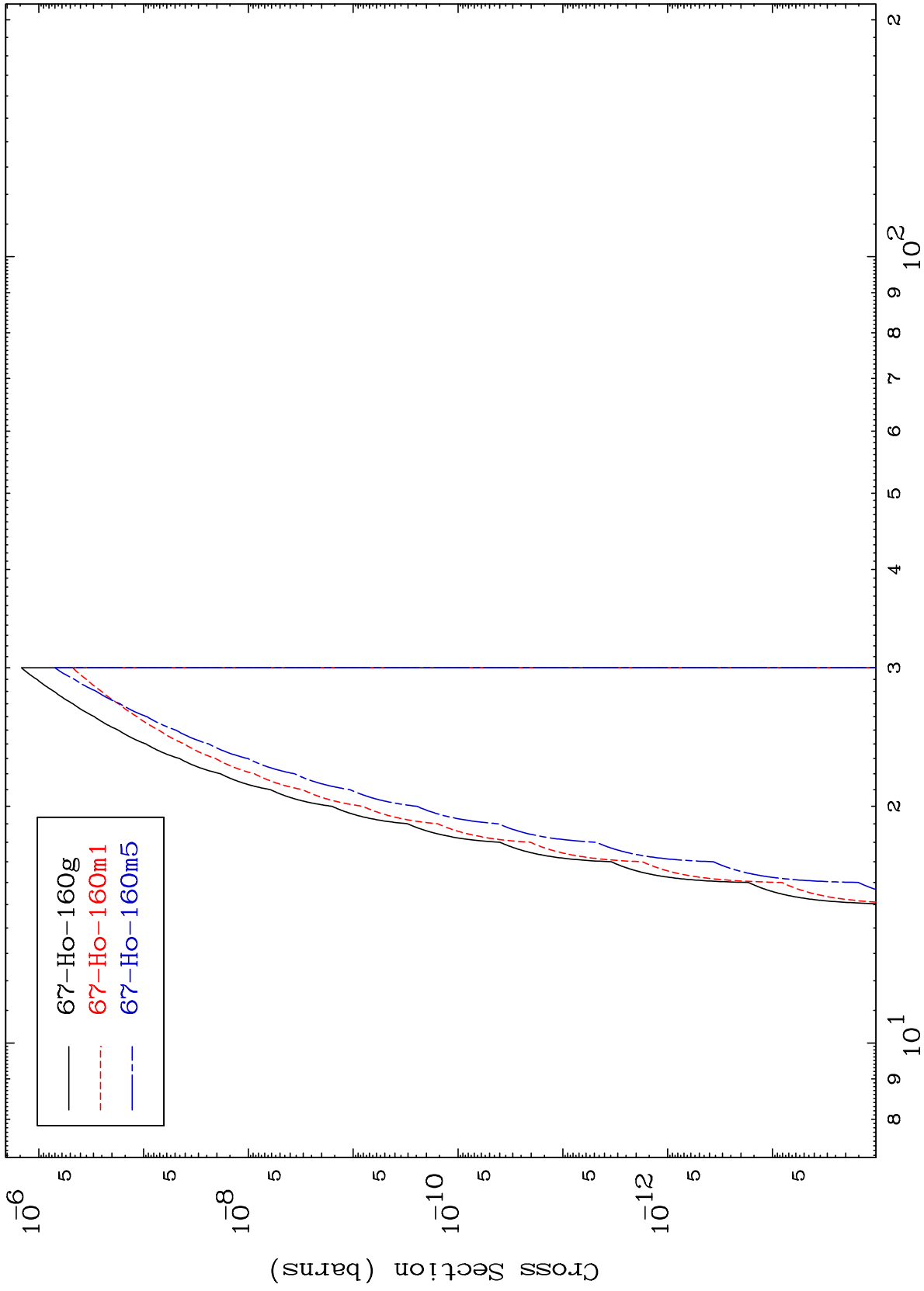
69-Tm-162

MAT 6904

(n,p) d

69-Tm-162

Radionuclide Production Cross Section



93

Incident Energy (MeV)

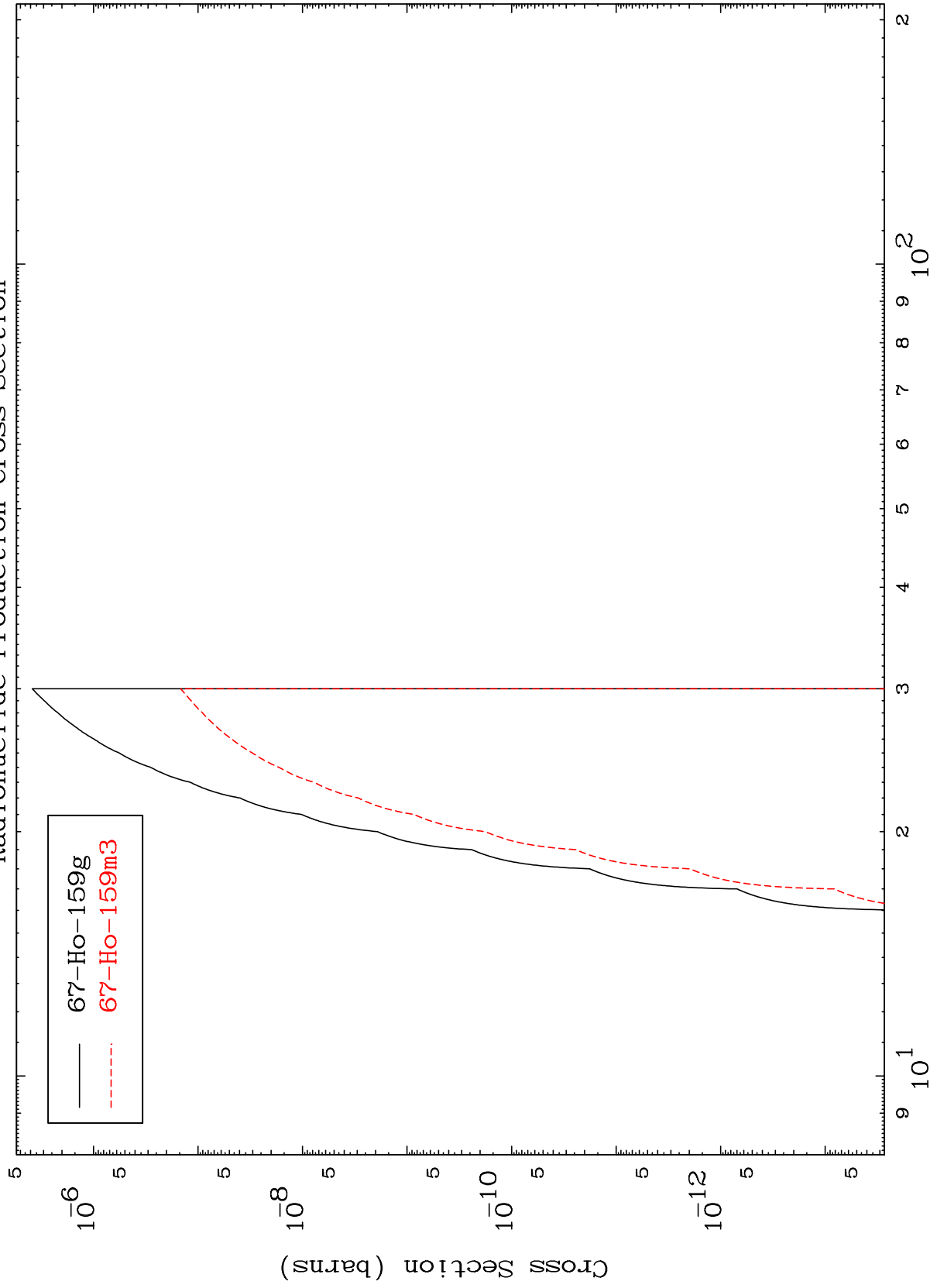
69-Tm-162

MAT 6904

(n,p) t

69-Tm-162

Radionuclide Production Cross Section



94

Incident Energy (MeV)

69-Tm-162