

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

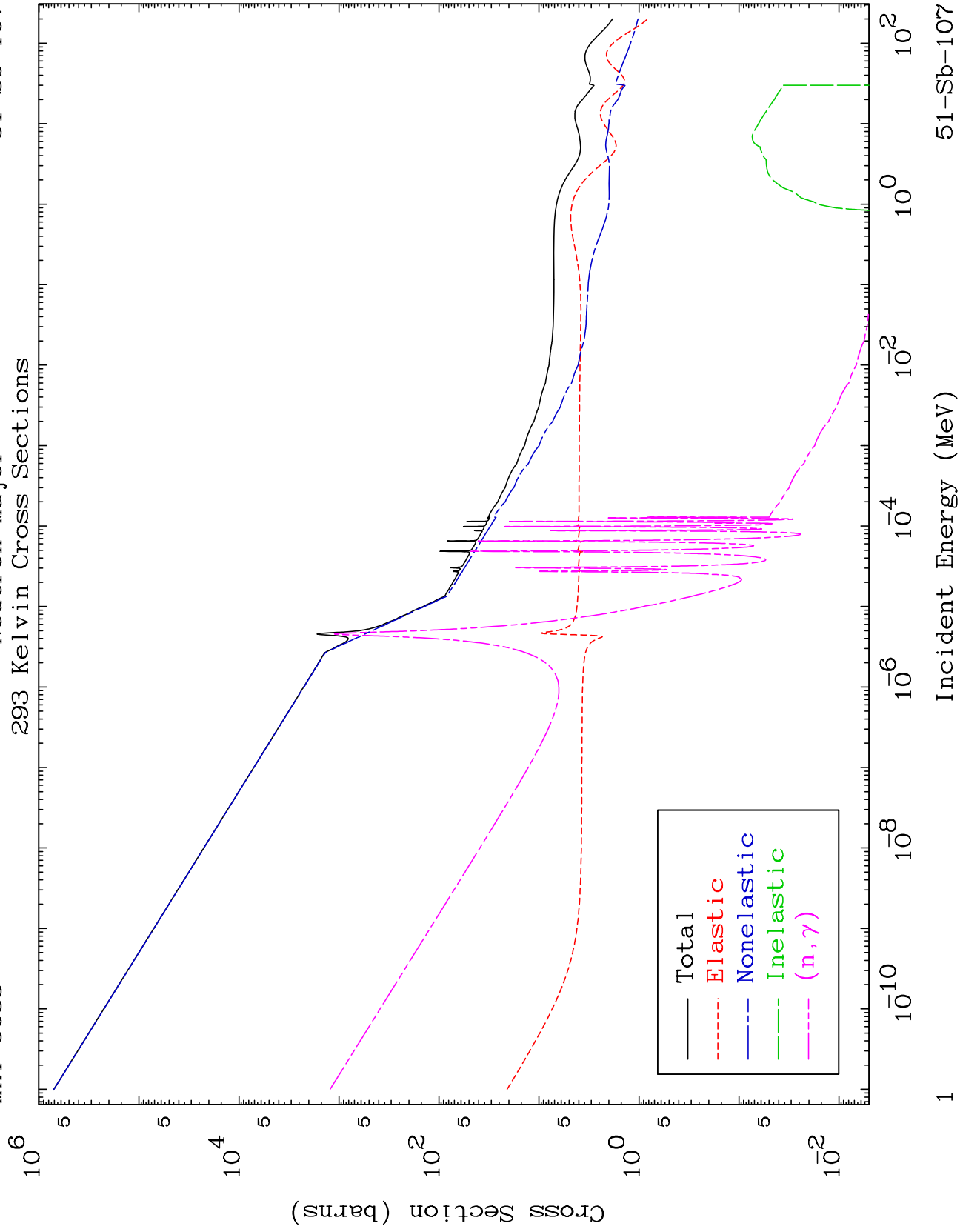
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5083

Neutron Major  
293 Kelvin Cross Sections

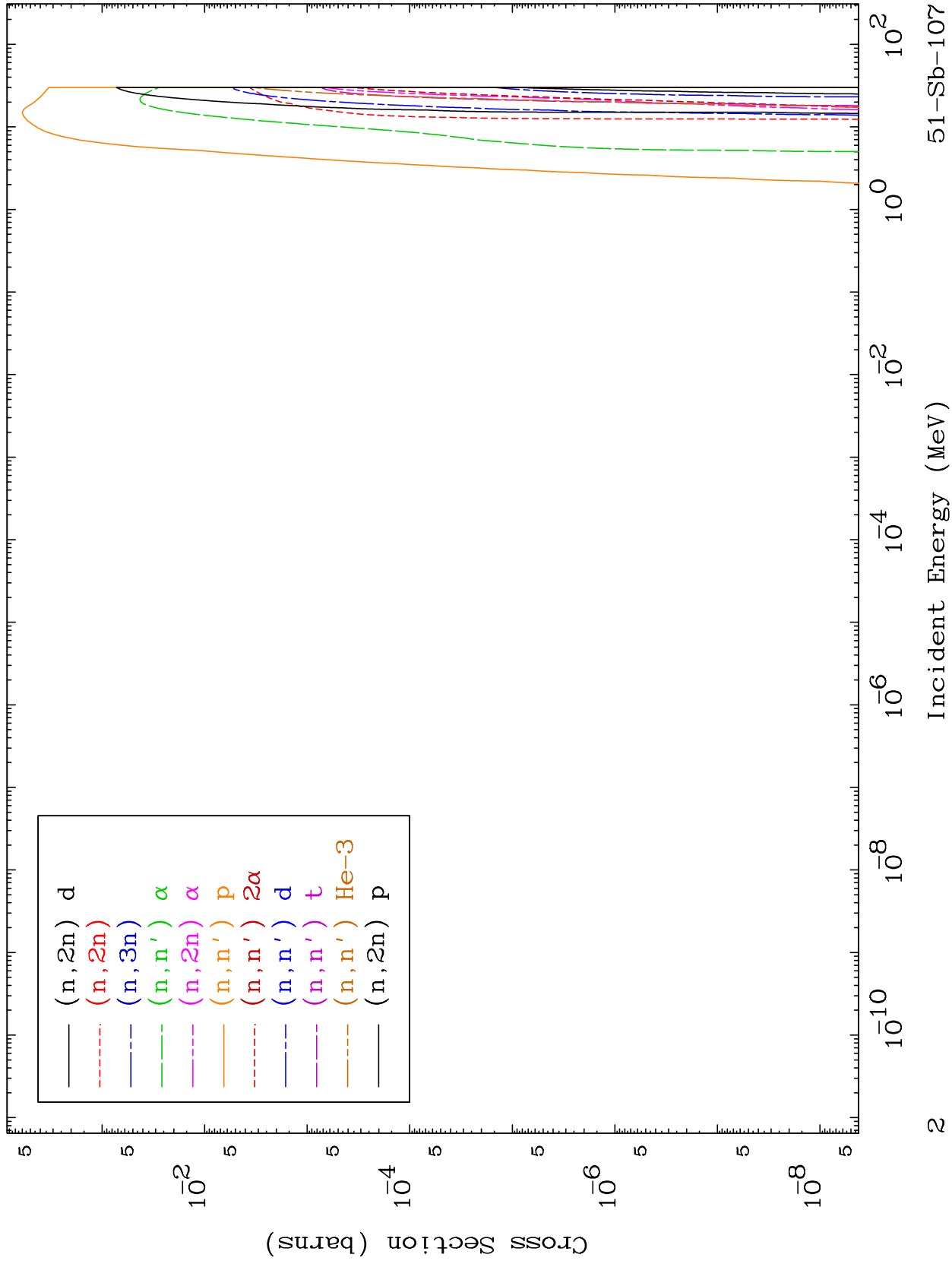
51-Sb-107



MAT 5083

Neutron Absorption  
293 Kelvin Cross Sections

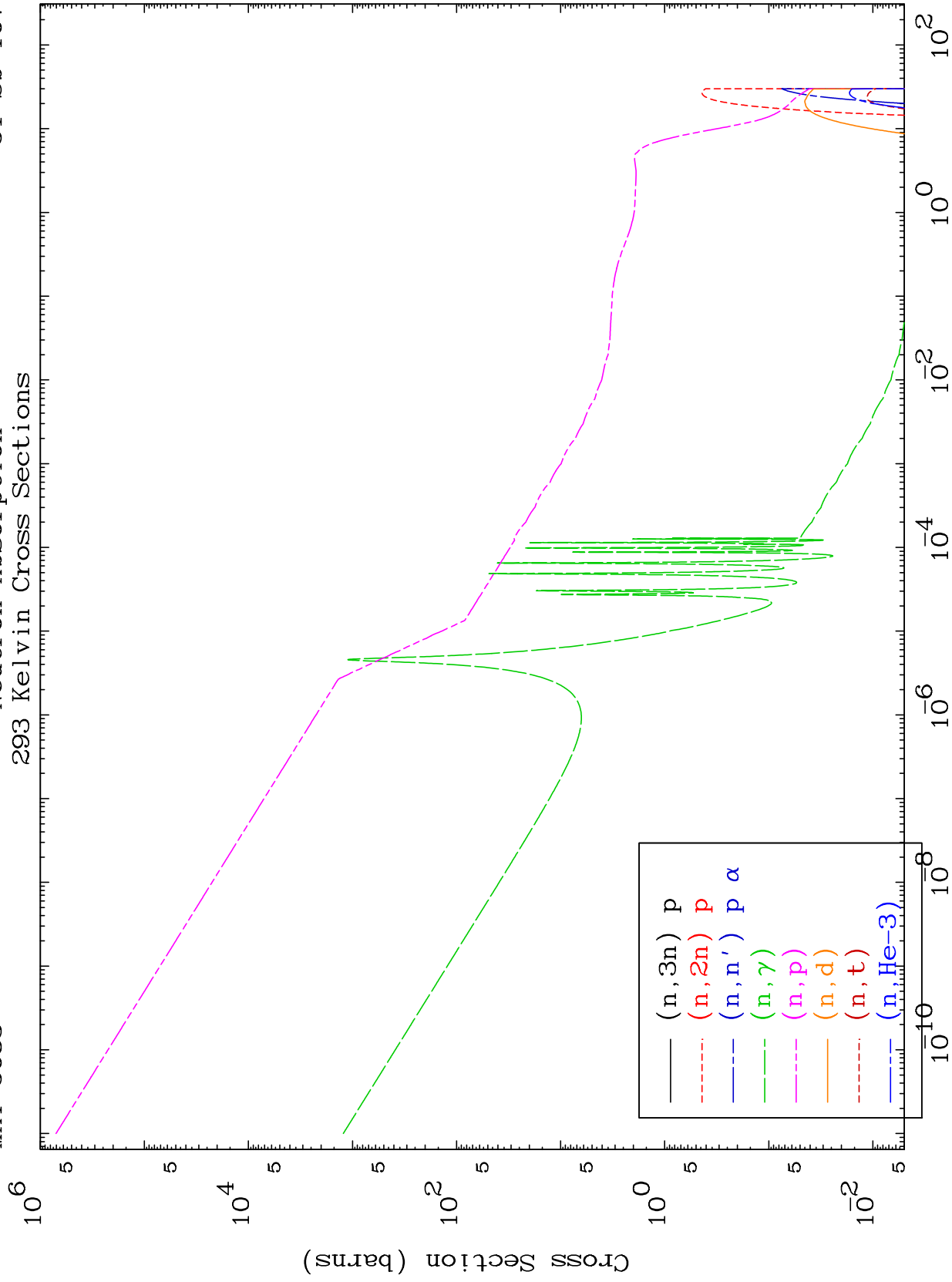
51-Sb-107



MAT 5083

Neutron Absorption  
293 Kelvin Cross Sections

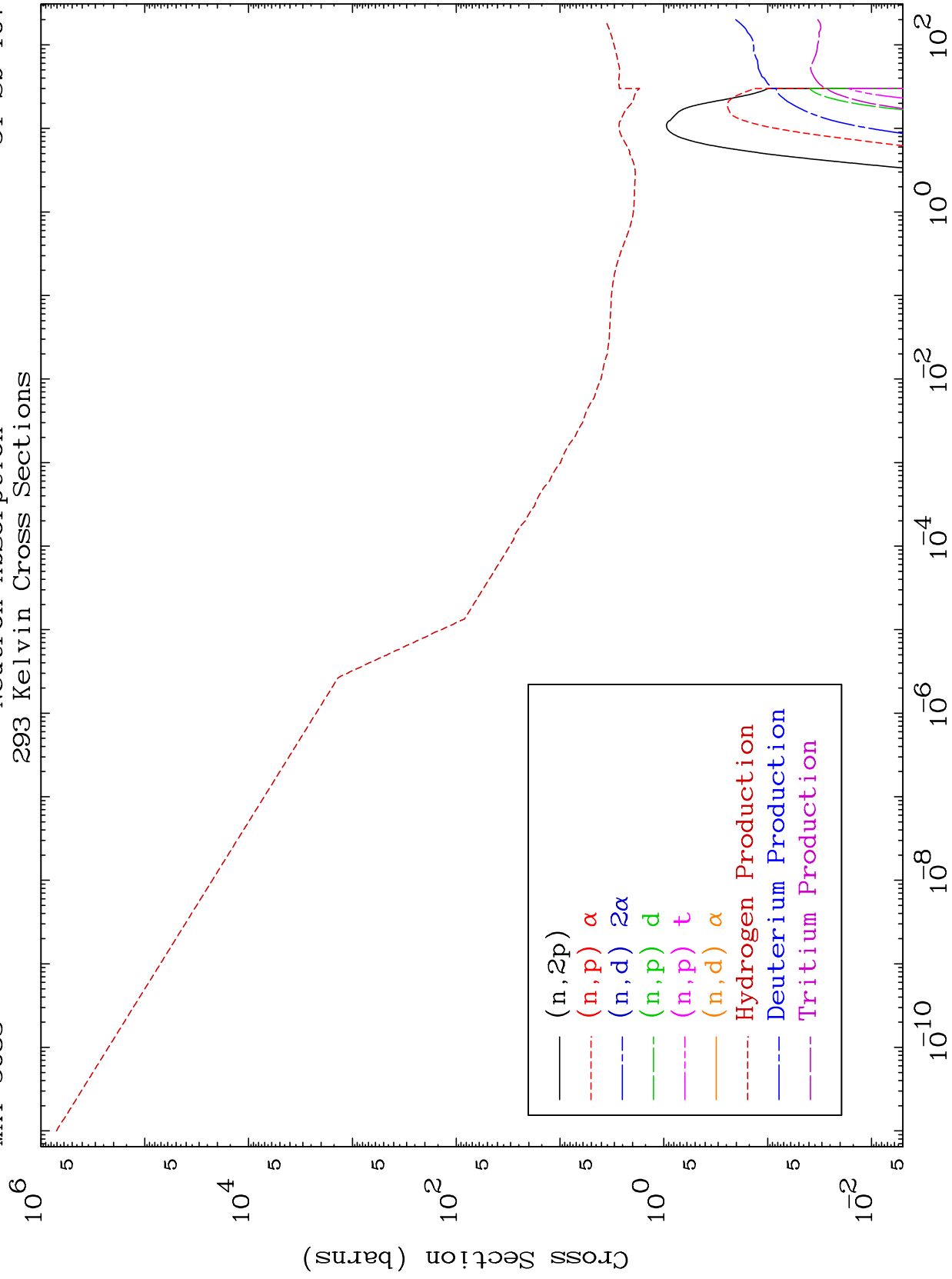
51-Sb-107



MAT 5083

Neutron Absorption  
293 Kelvin Cross Sections

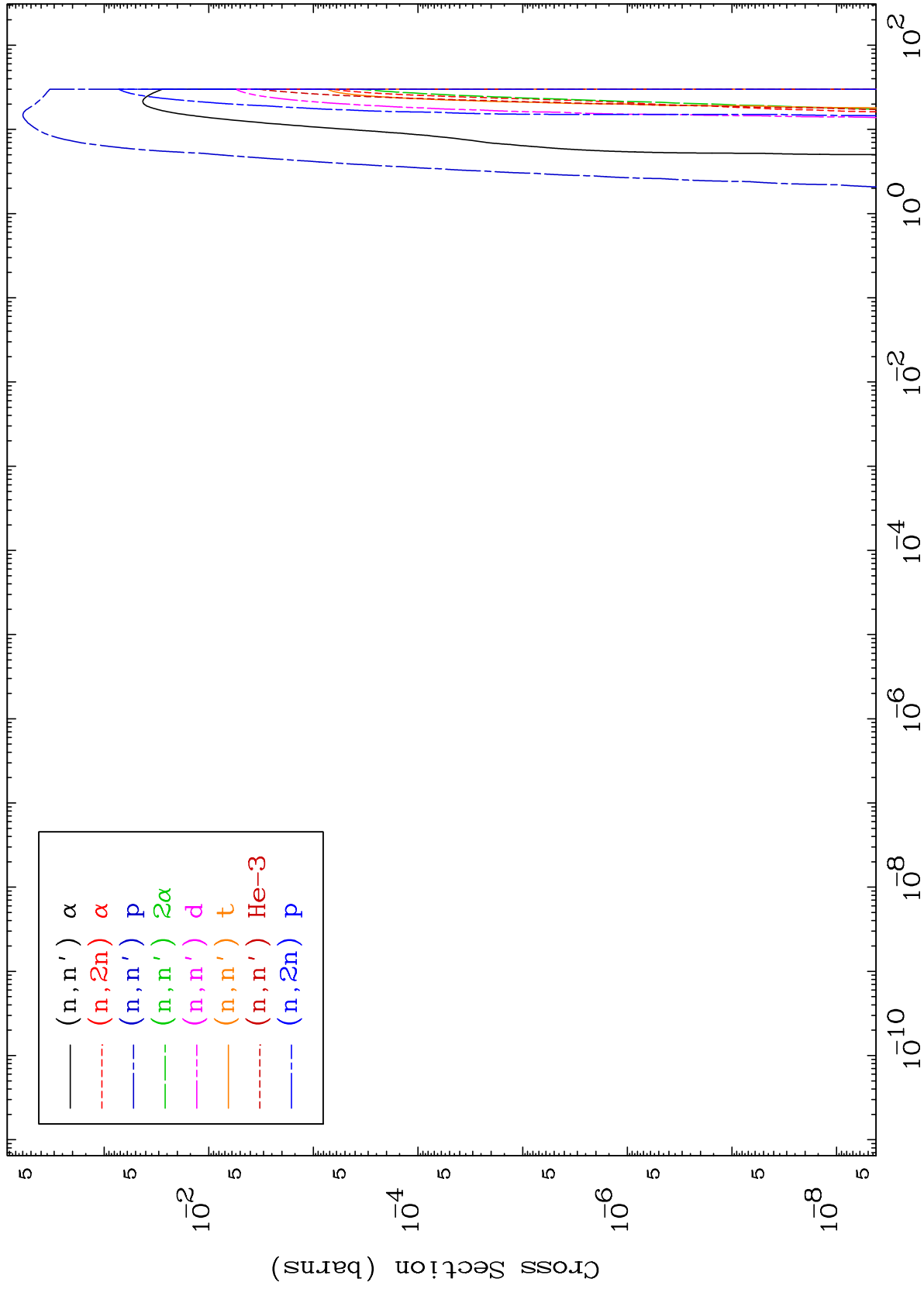
51-Sb-107



MAT 5083

293 Charged Particle  
Kelvin Cross Sections

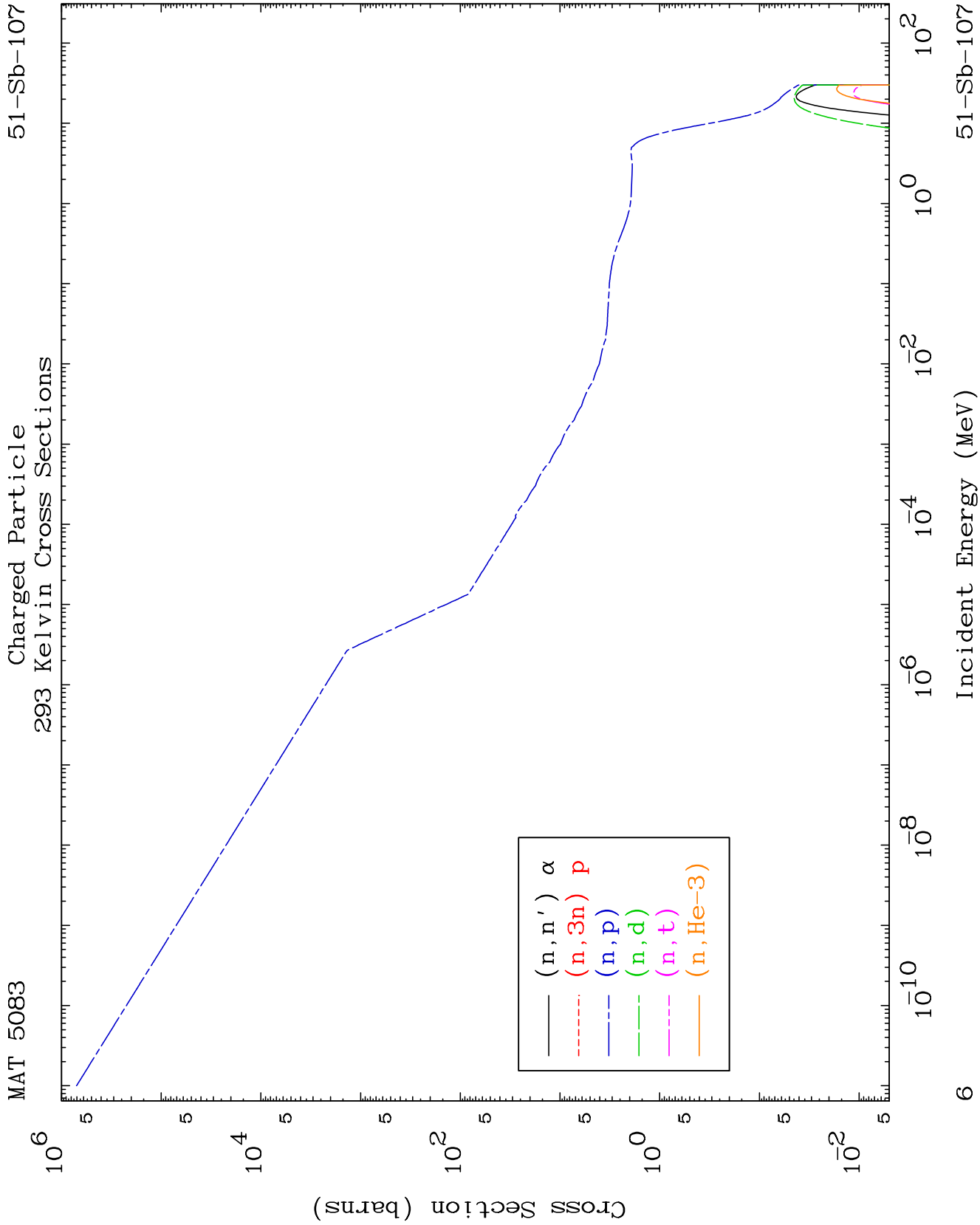
51-Sb-107



5

Incident Energy (MeV)

51-Sb-107



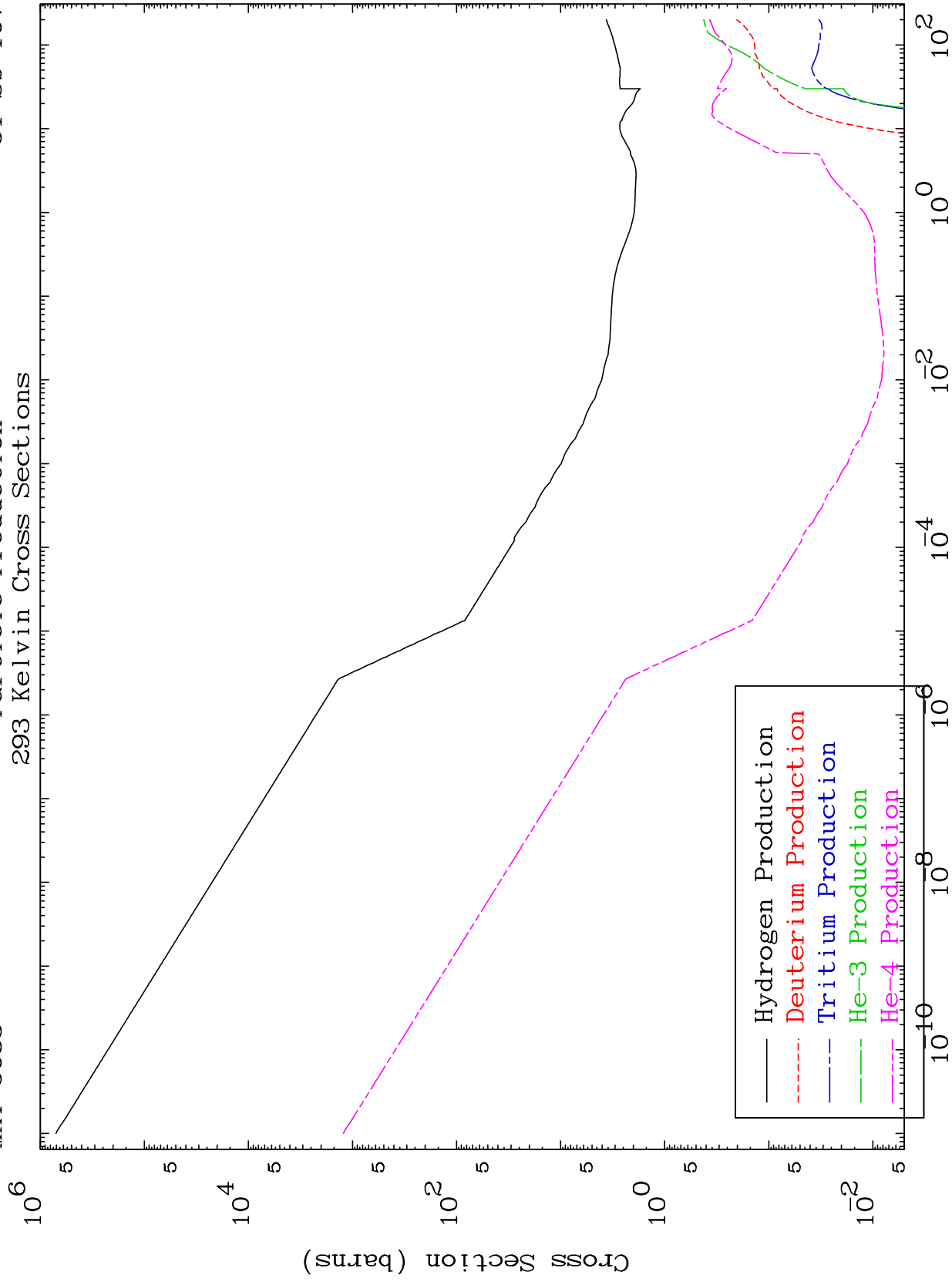




MAT 5083

Particle Production  
293 Kelvin Cross Sections

51-Sb-107



8

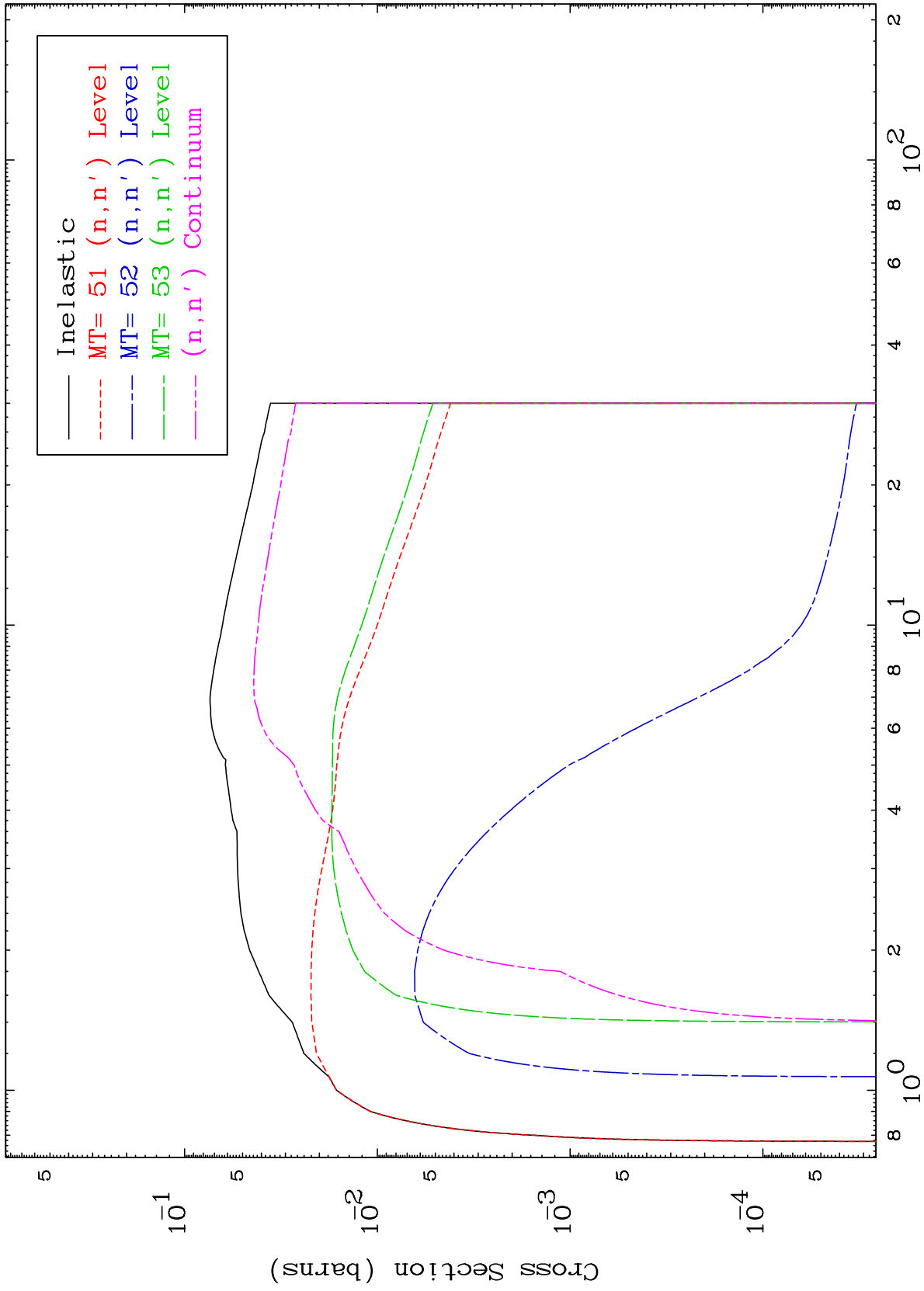
Incident Energy (MeV)

51-Sb-107

MAT 5083

(n,n') Levels  
293 Kelvin Cross Sections

51-Sb-107



9

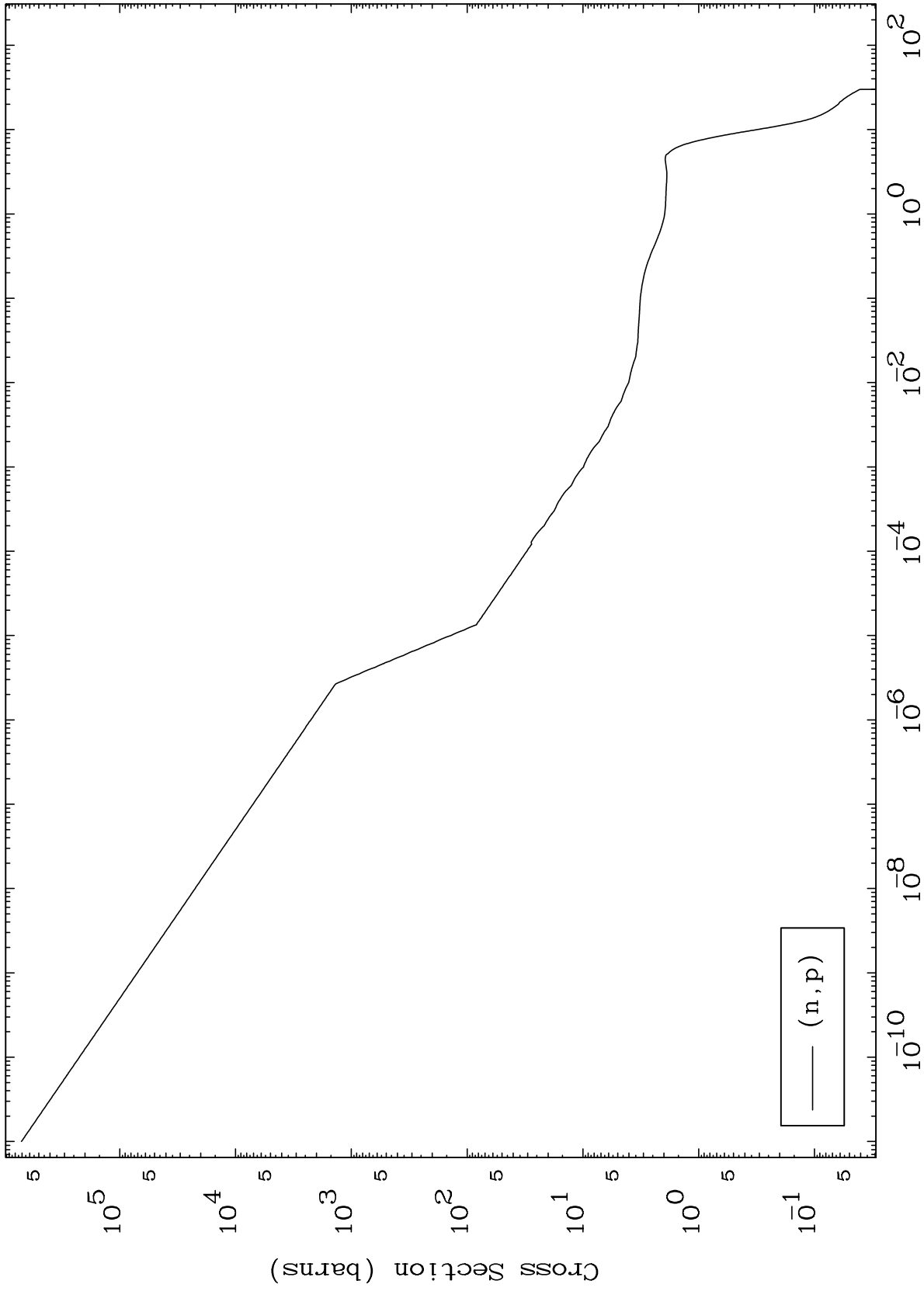
Incident Energy (MeV)

51-Sb-107

MAT 5083

(n,p) Levels  
293 Kelvin Cross Sections

51-Sb-107



10

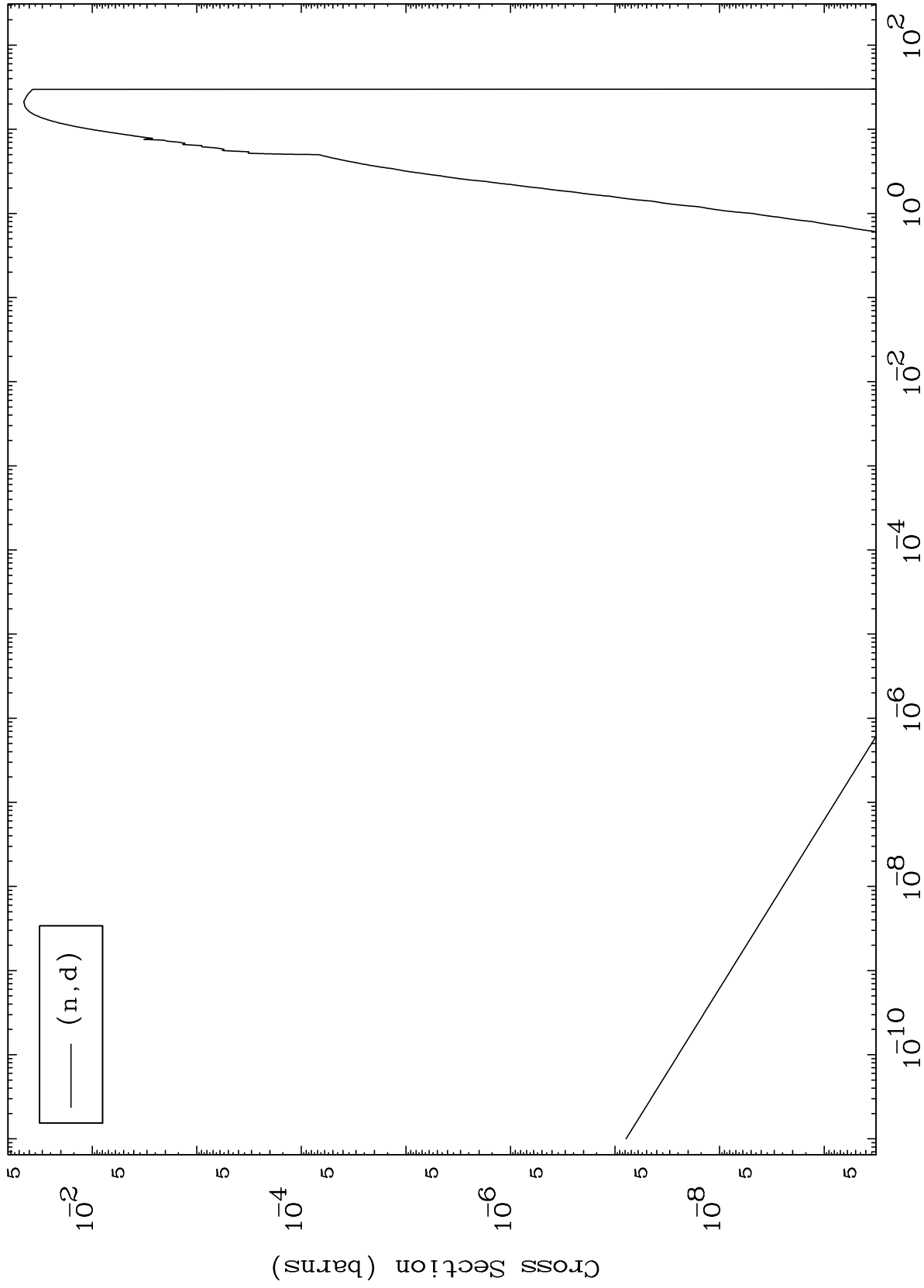
Incident Energy (MeV)

51-Sb-107

MAT 5083

(n,d) Levels  
293 Kelvin Cross Sections

51-Sb-107



11

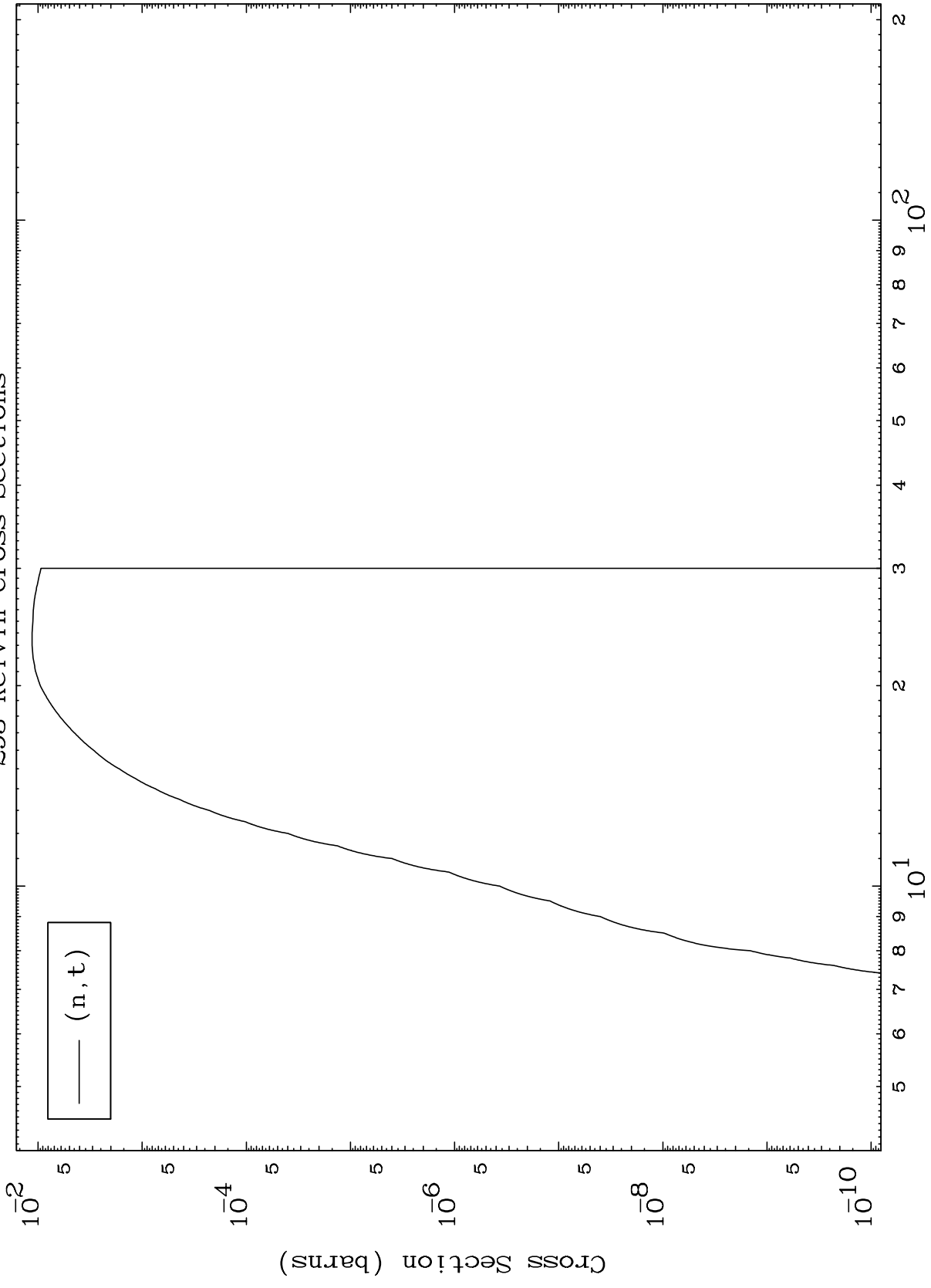
Incident Energy (MeV)

51-Sb-107

MAT 5083

(n,t) Levels  
293 Kelvin Cross Sections

51-Sb-107



12

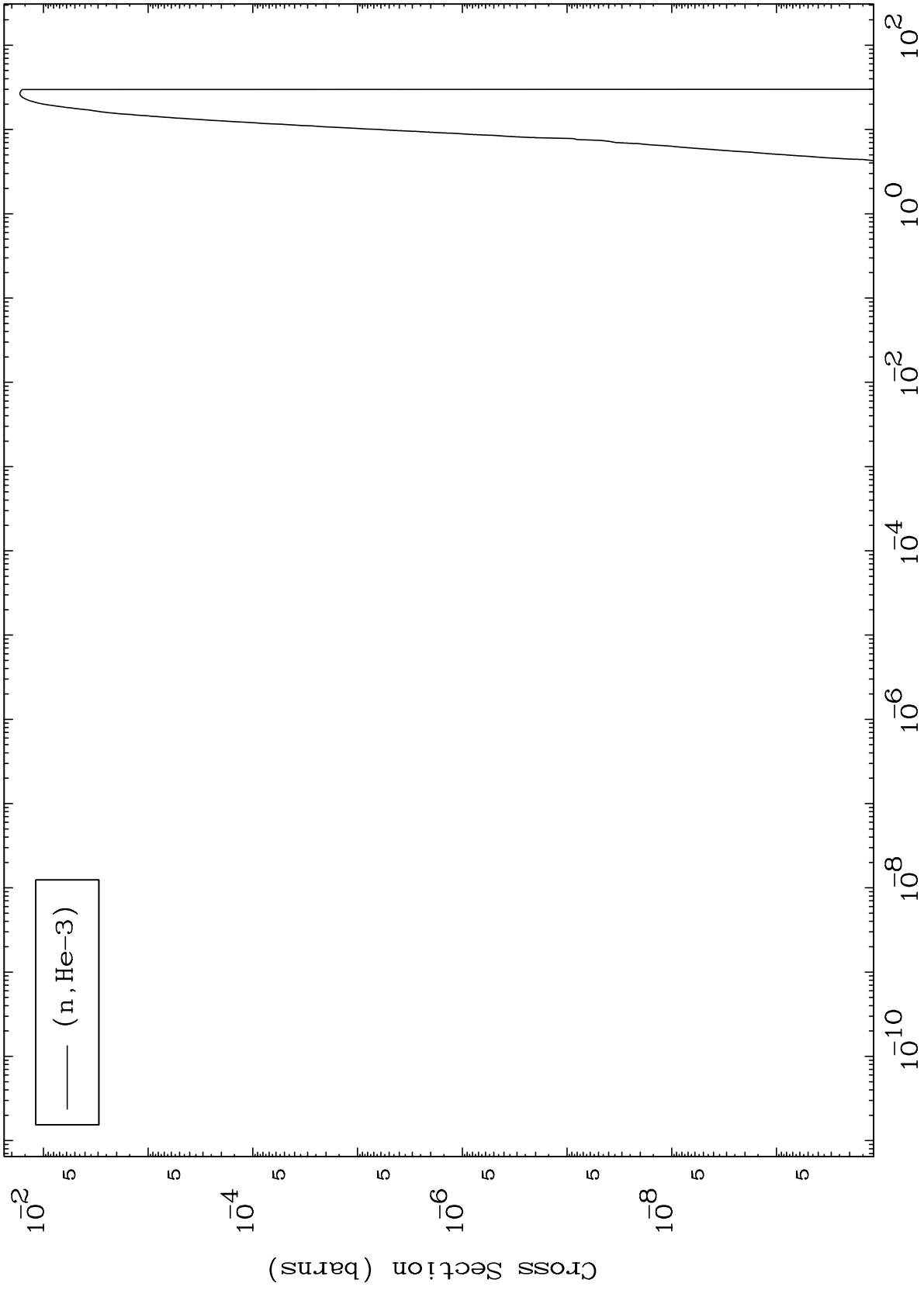
Incident Energy (MeV)

51-Sb-107

MAT 5083

(n,He3) Levels  
293 Kelvin Cross Sections

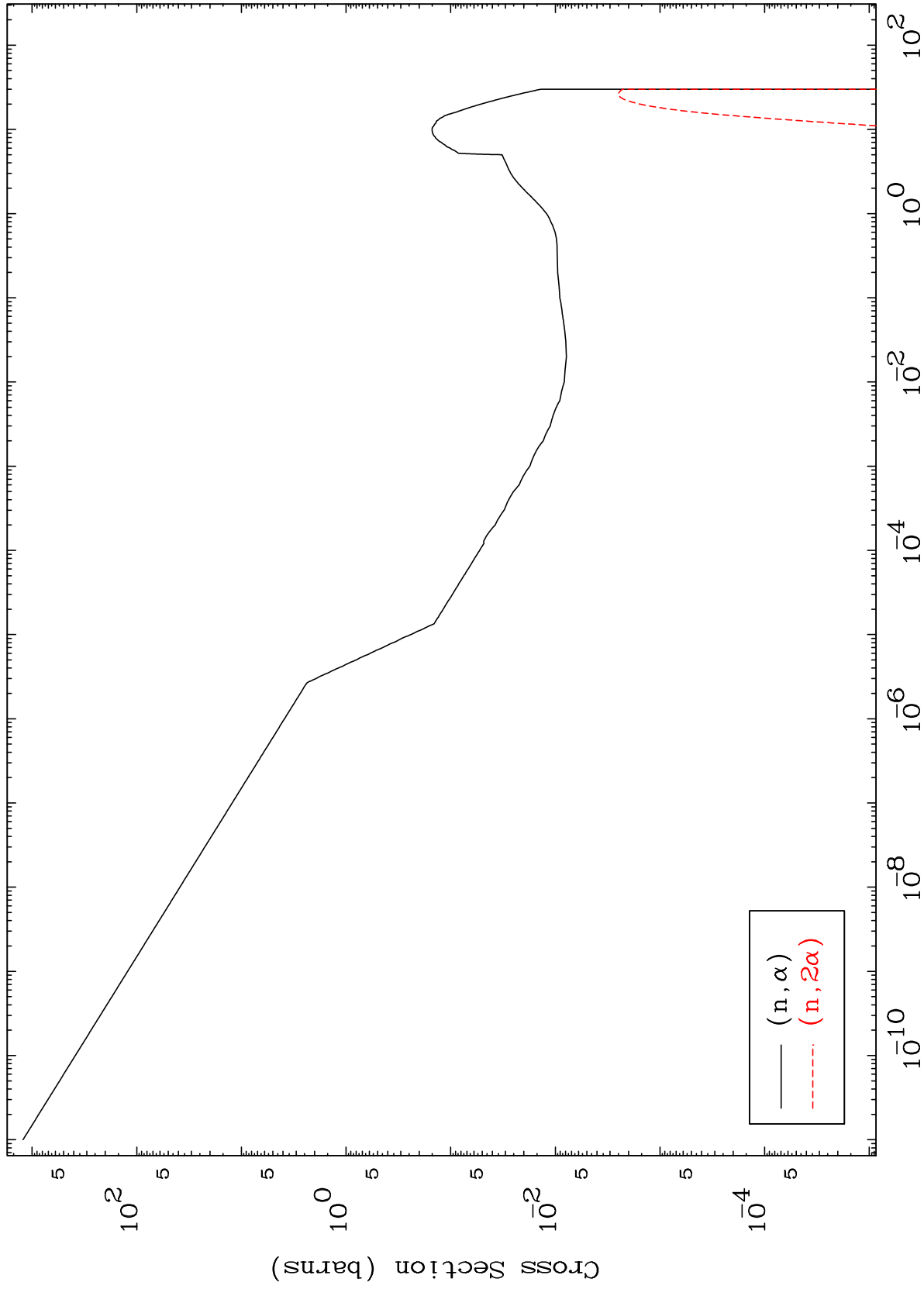
51-Sb-107



MAT 5083

(n,α) Levels  
293 Kelvin Cross Sections

51-Sb-107



14

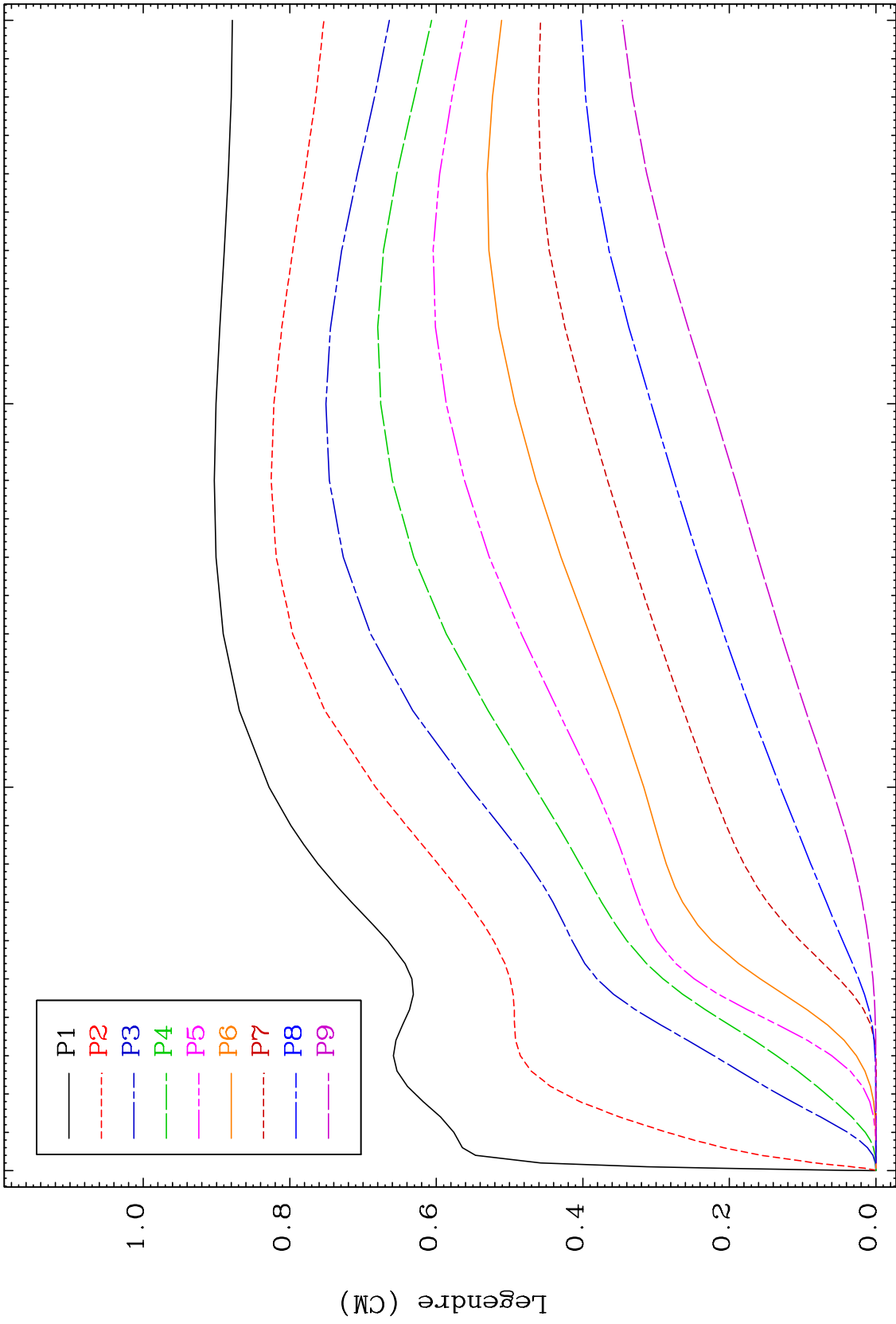
Incident Energy (MeV)

51-Sb-107

MAT 5083

Elastic Legendre Coefficients

51-Sb-107



15

0

10

20

30

Incident Energy (MeV)

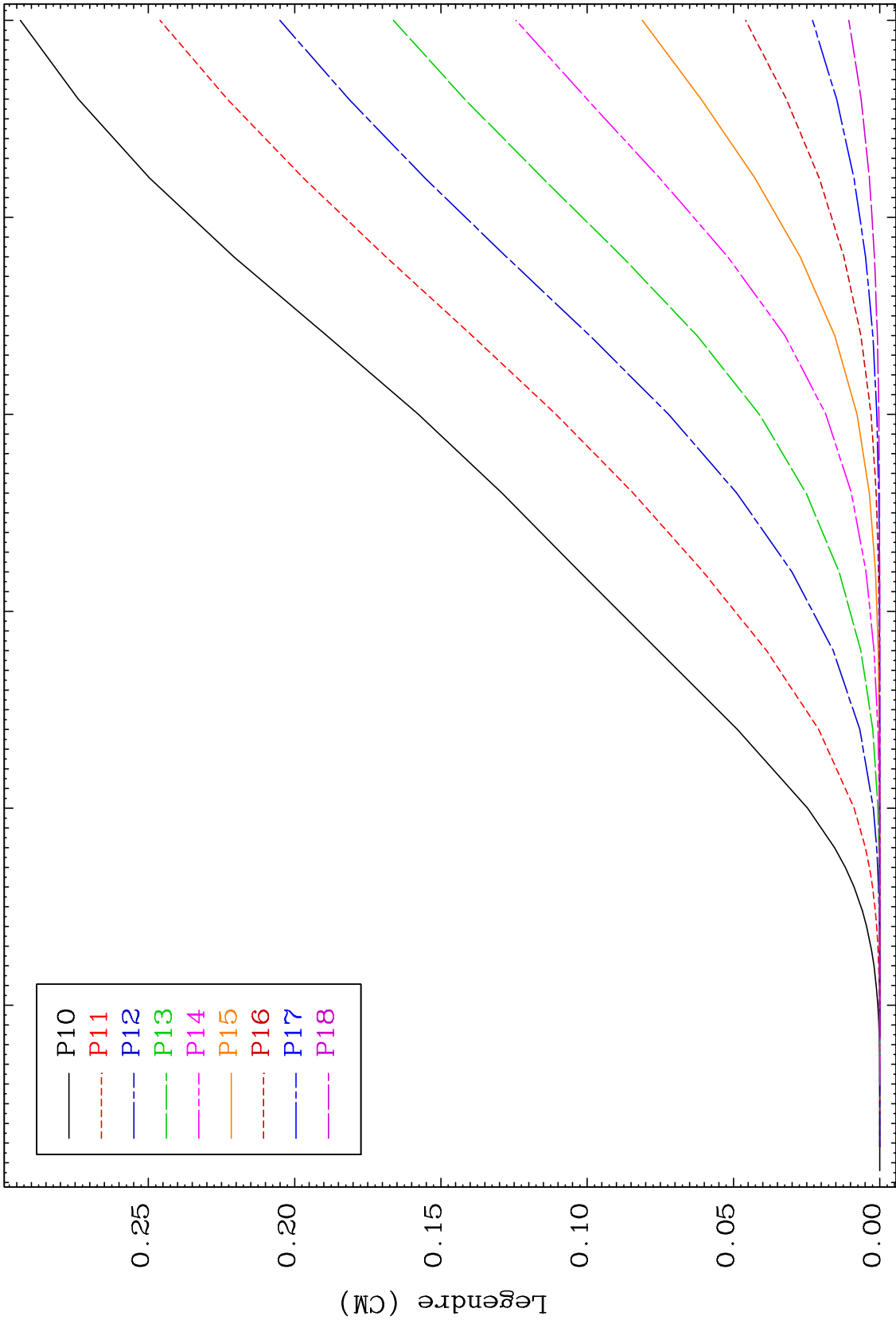
51-Sb-107



MAT 5083

Elastic Legendre Coefficients

51-Sb-107



16

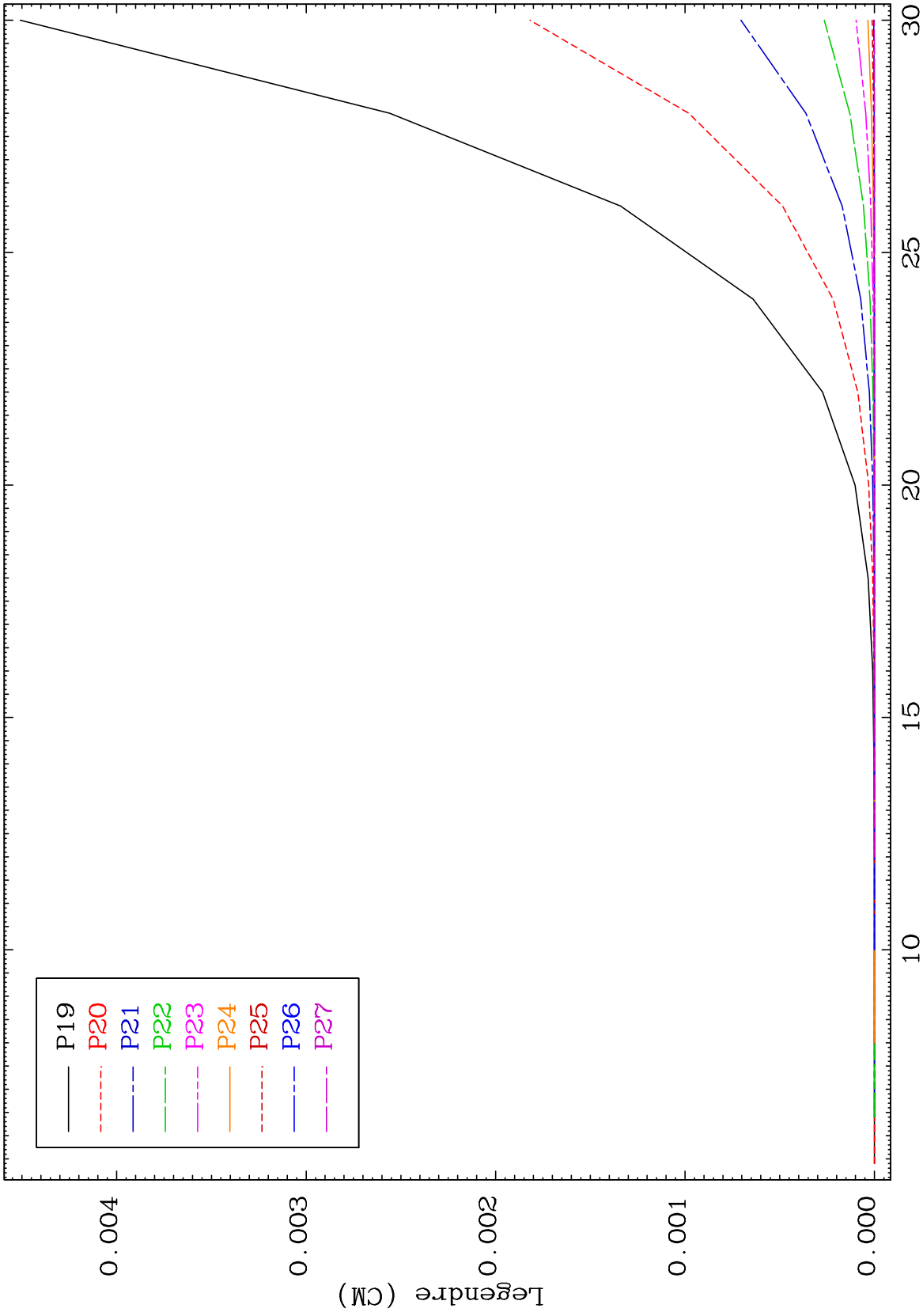
Incident Energy (MeV)

51-Sb-107

MAT 5083

### Elastic Legendre Coefficients

51-Sb-107



17

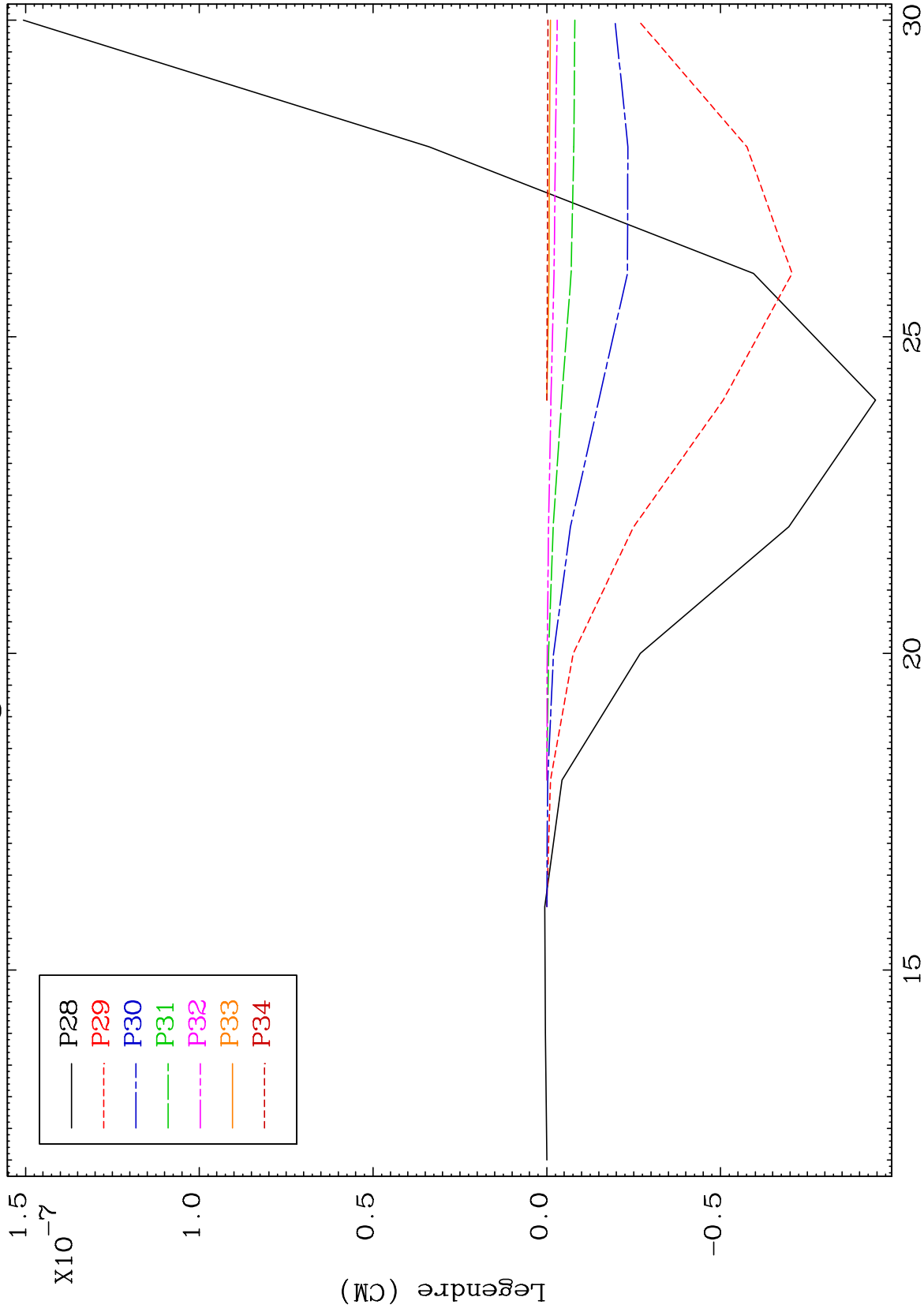
Incident Energy (MeV)

51-Sb-107

MAT 5083

Elastic Legendre Coefficients

51-Sb-107



18

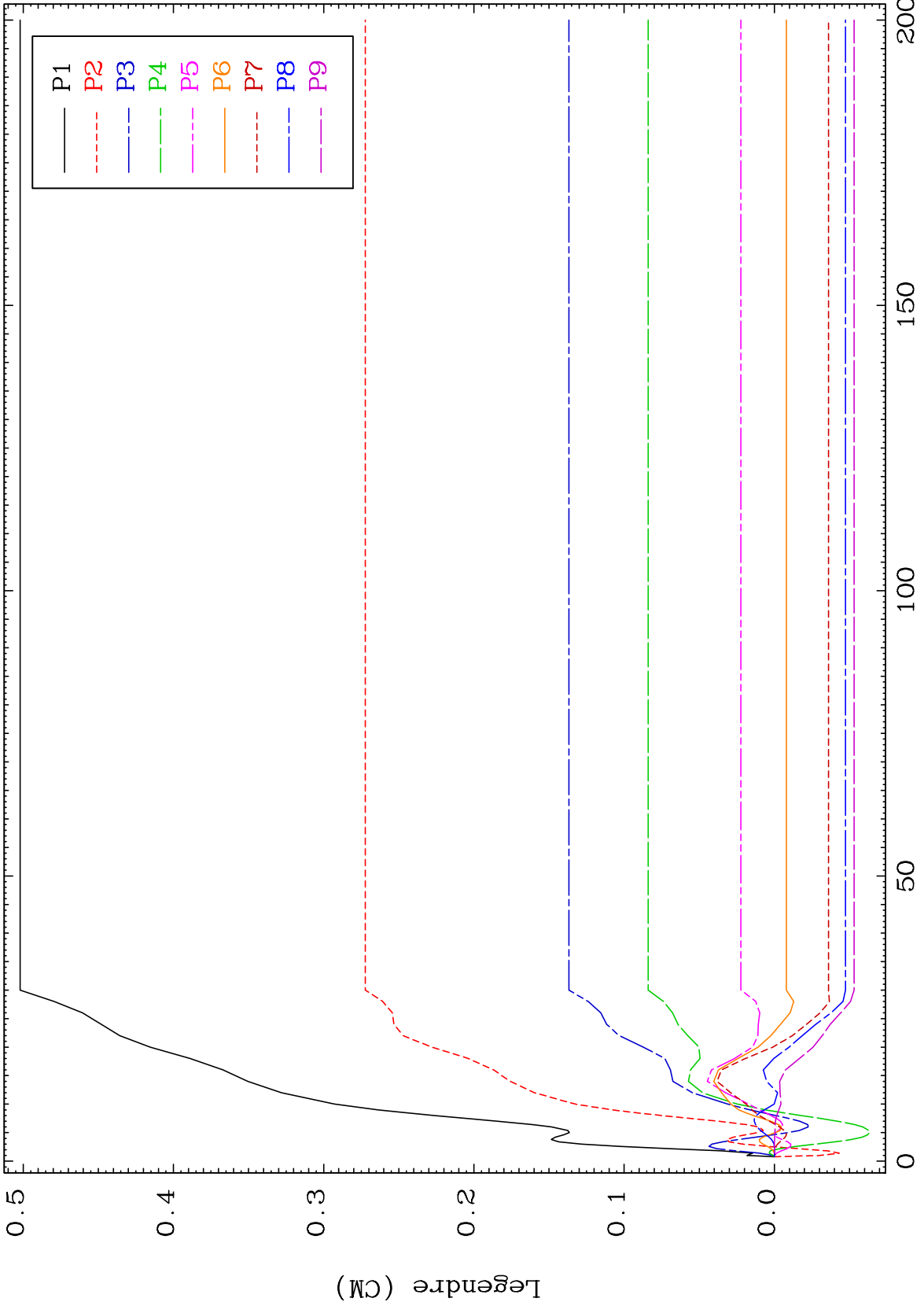
Incident Energy (MeV)

51-Sb-107

MAT 5083

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

51-Sb-107



19

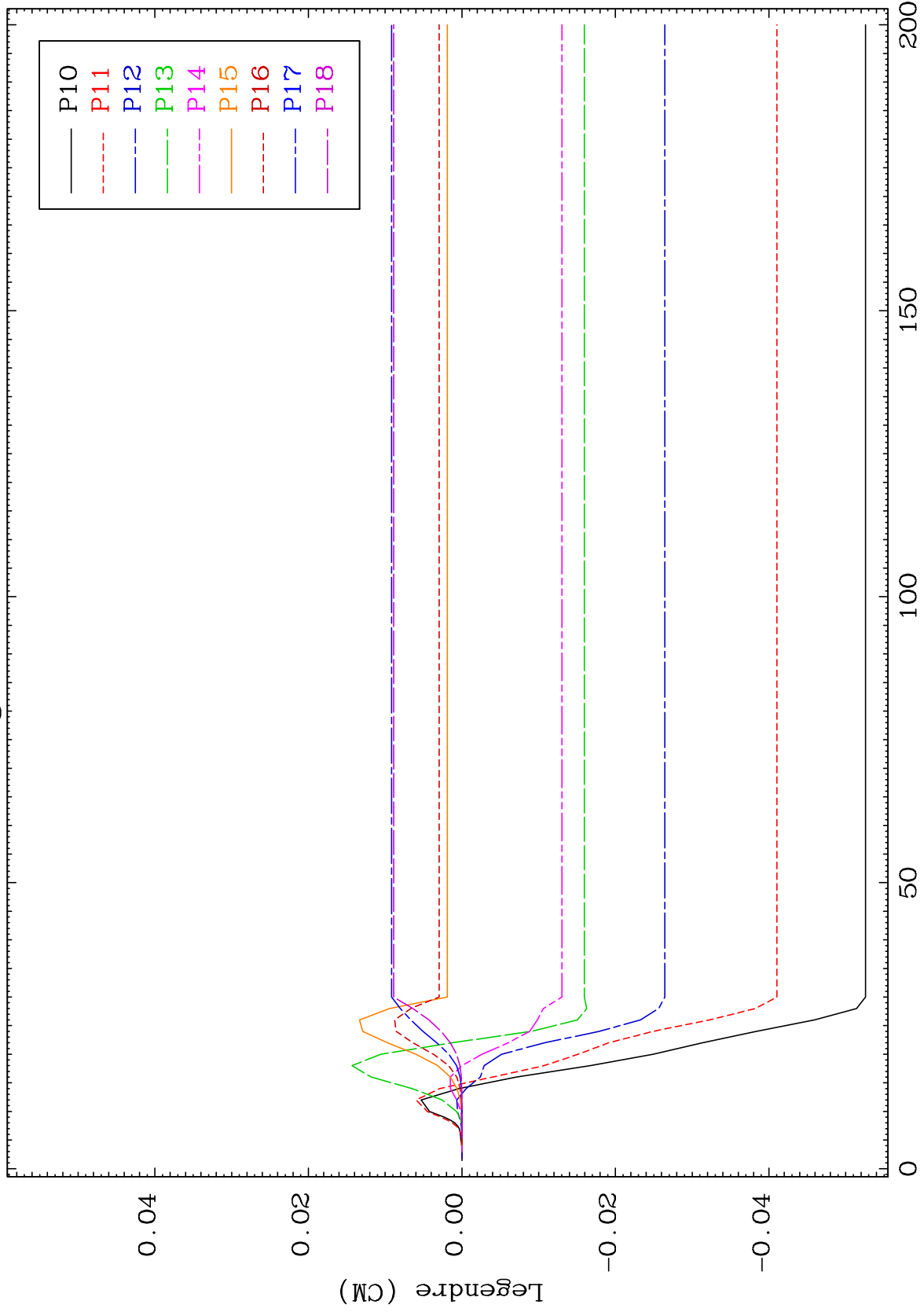
Incident Energy (MeV)

51-Sb-107

MAT 5083

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

51-Sb-107



0

-0.04

-0.02

Legendre (CM)

0.02

0.04

0

50

100

150

200

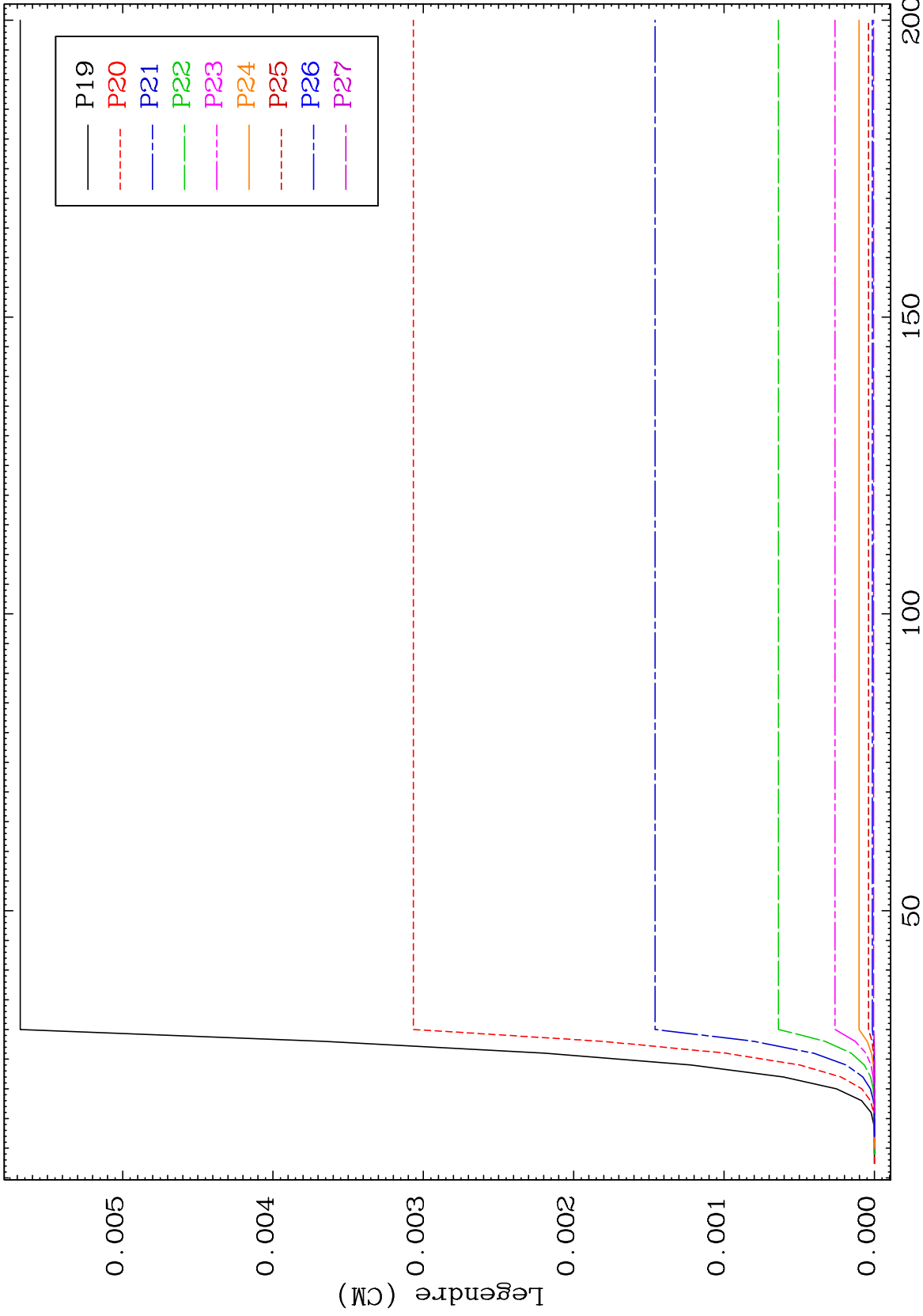
Incident Energy (MeV)

51-Sb-107

MAT 5083

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

51-Sb-107



21

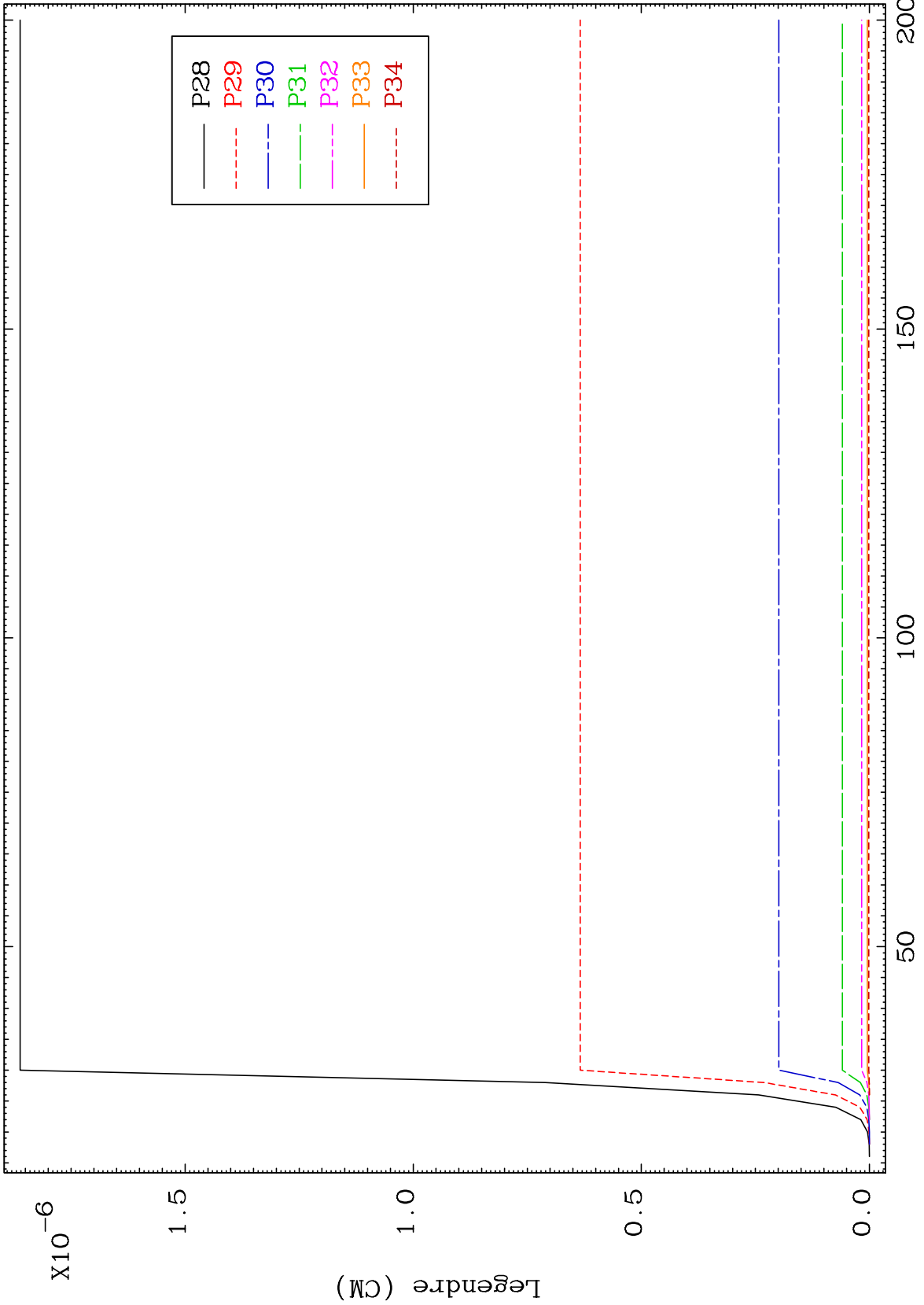
Incident Energy (MeV)

51-Sb-107

MAT 5083

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

51-Sb-107



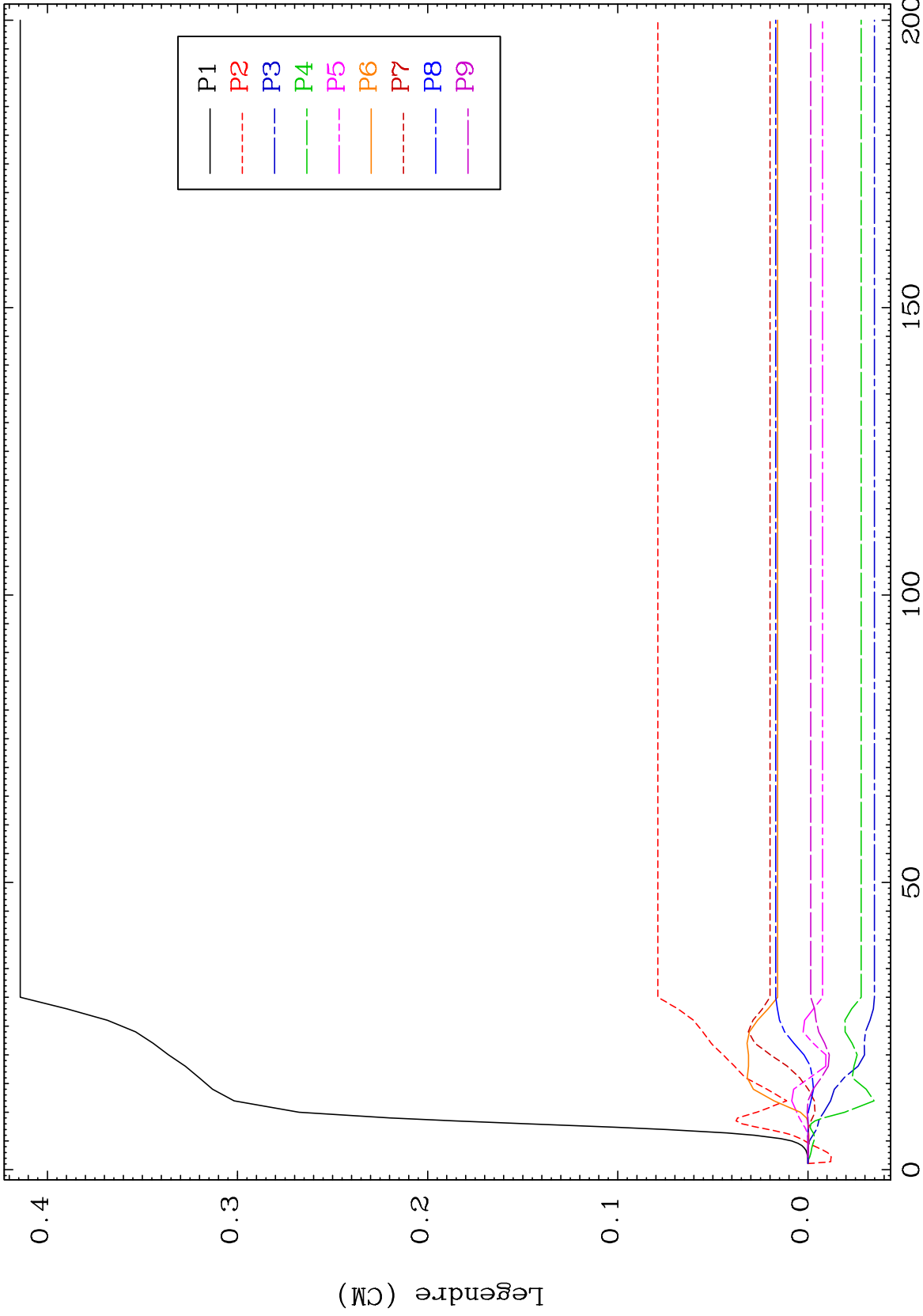
22

51-Sb-107

MAT 5083

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

51-Sb-107



23

Incident Energy (MeV)

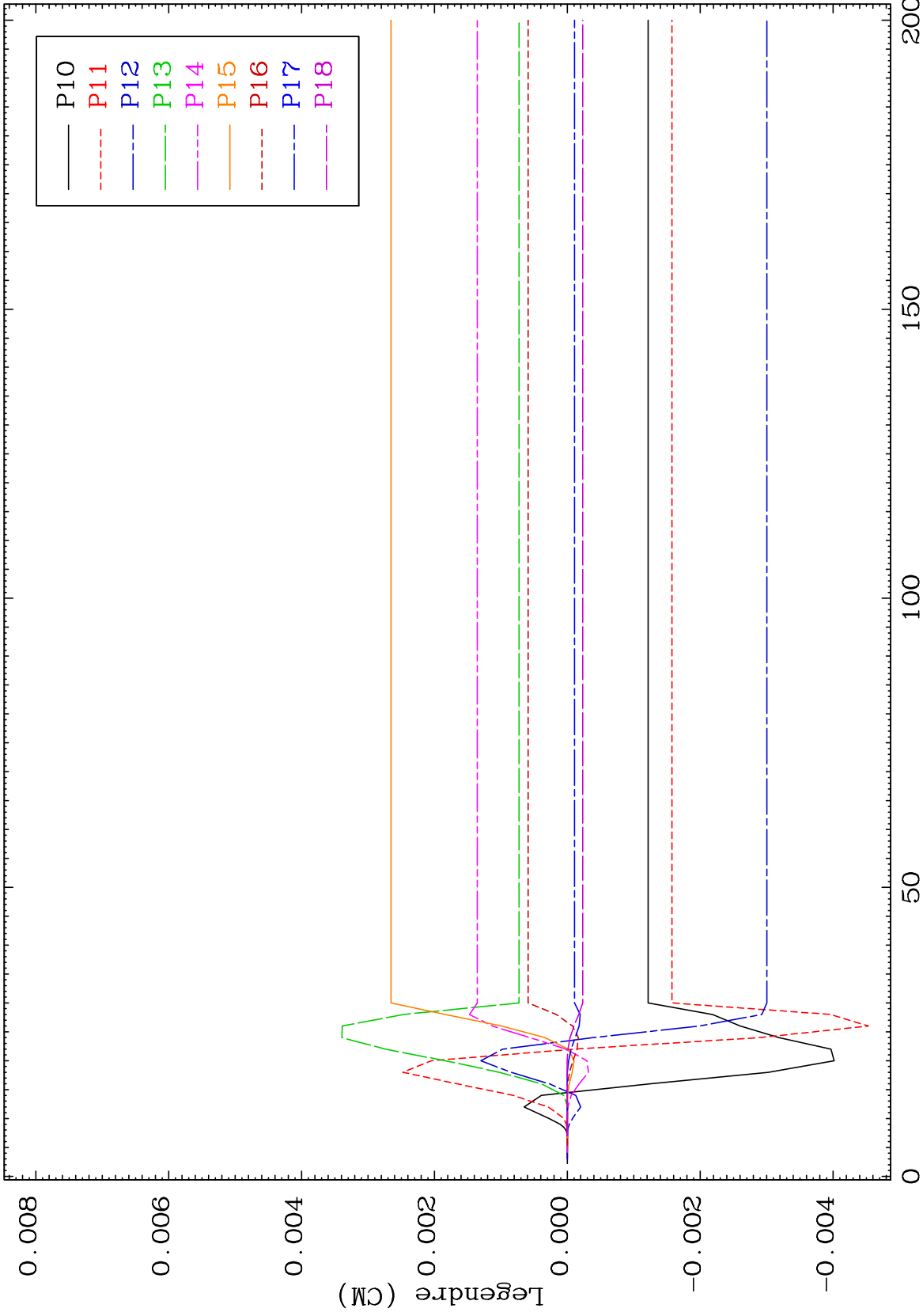
51-Sb-107



MAT 5083

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

51-Sb-107



24

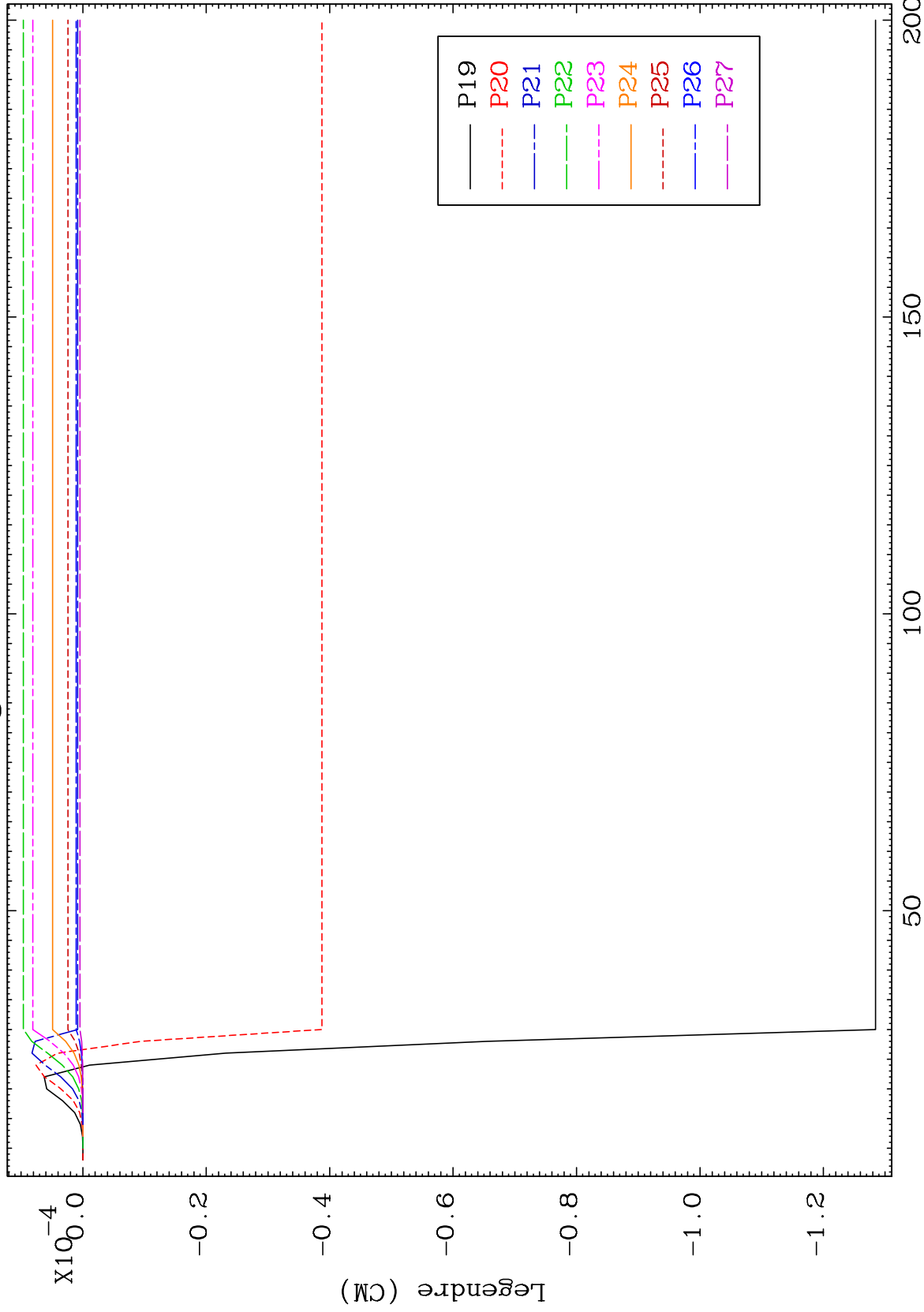
Incident Energy (MeV)

51-Sb-107

MAT 5083

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

51-Sb-107



25

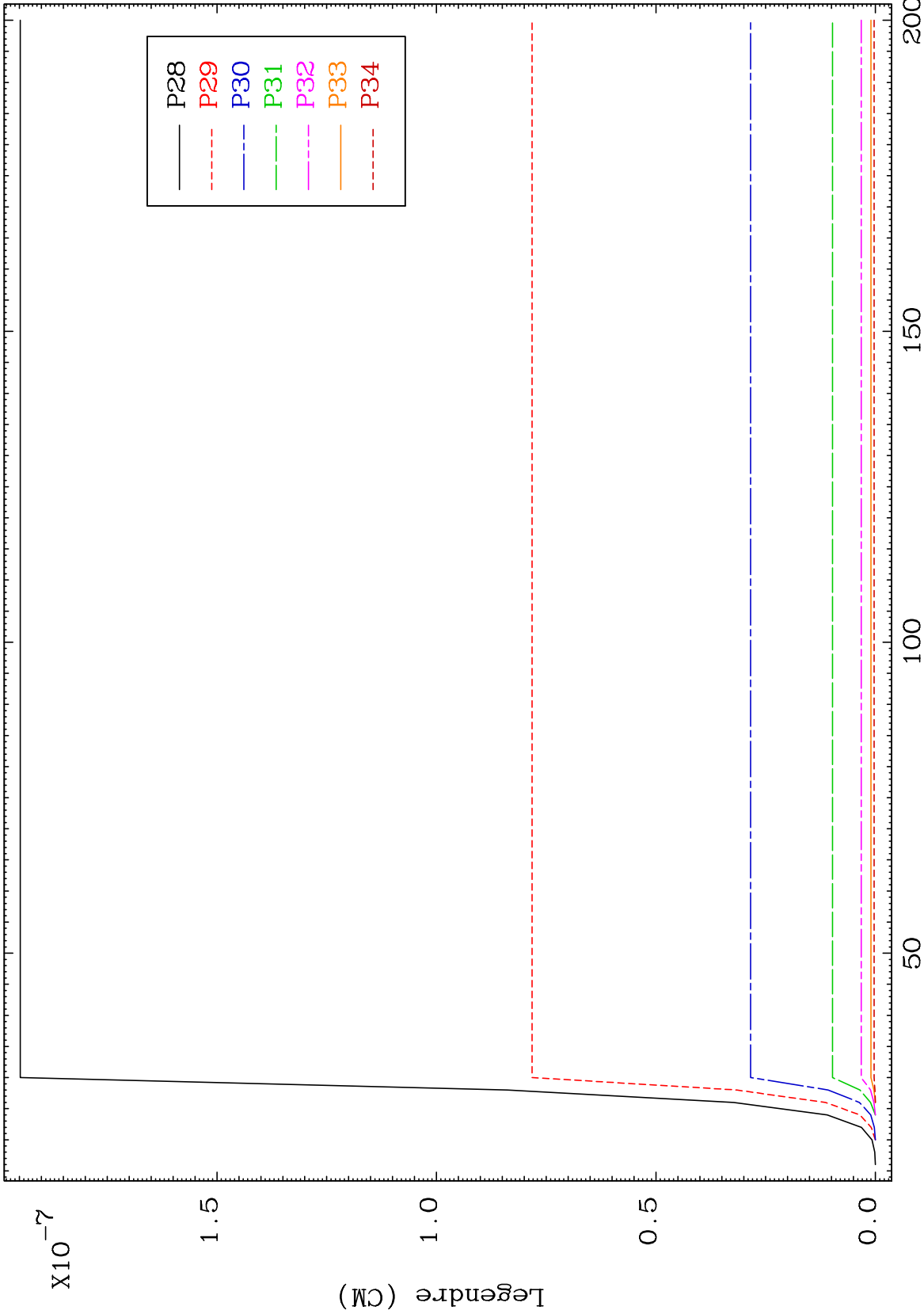
Incident Energy (MeV)

51-Sb-107

MAT 5083

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

51-Sb-107



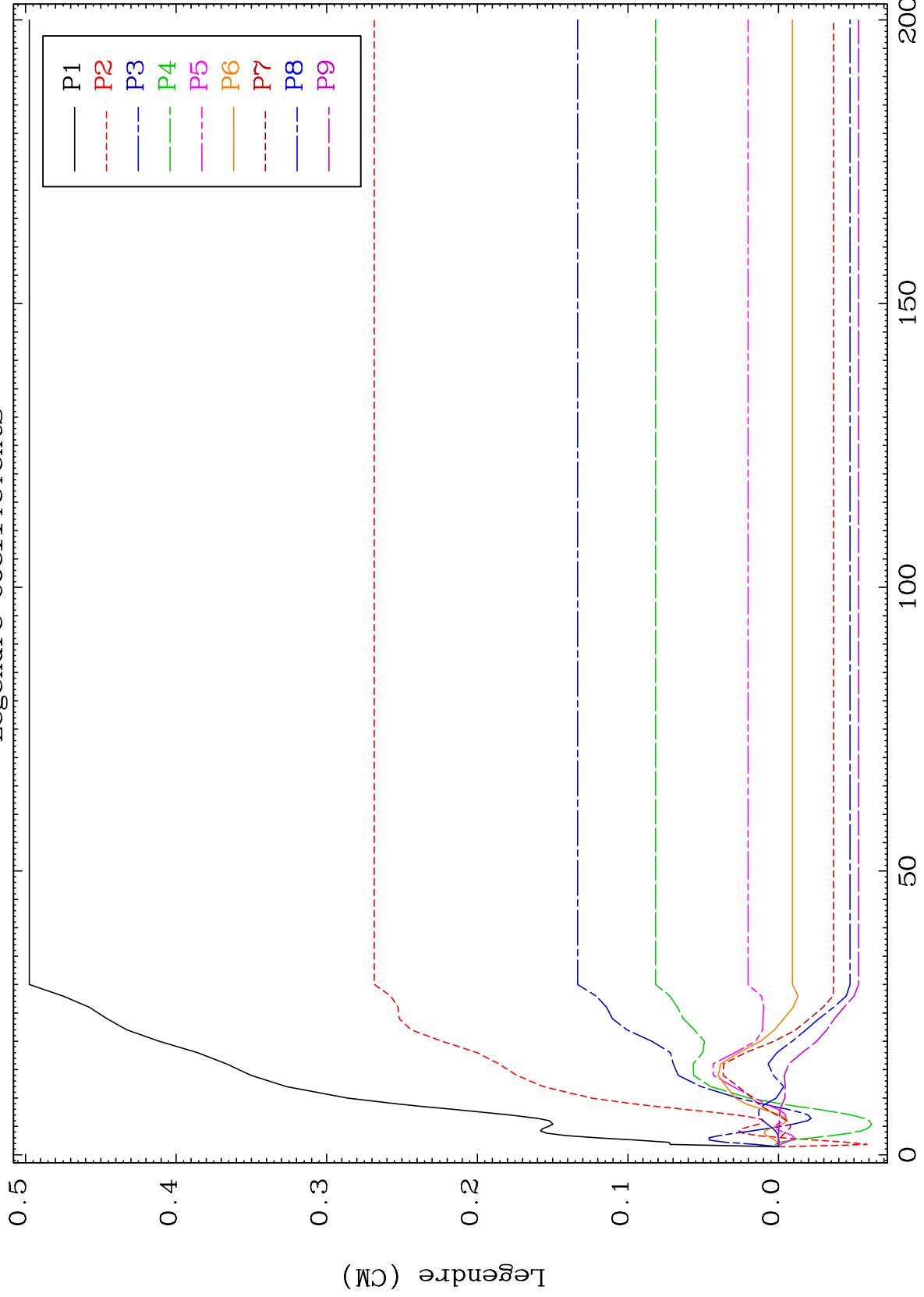
26

51-Sb-107

MAT 5083

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

51-Sb-107



27

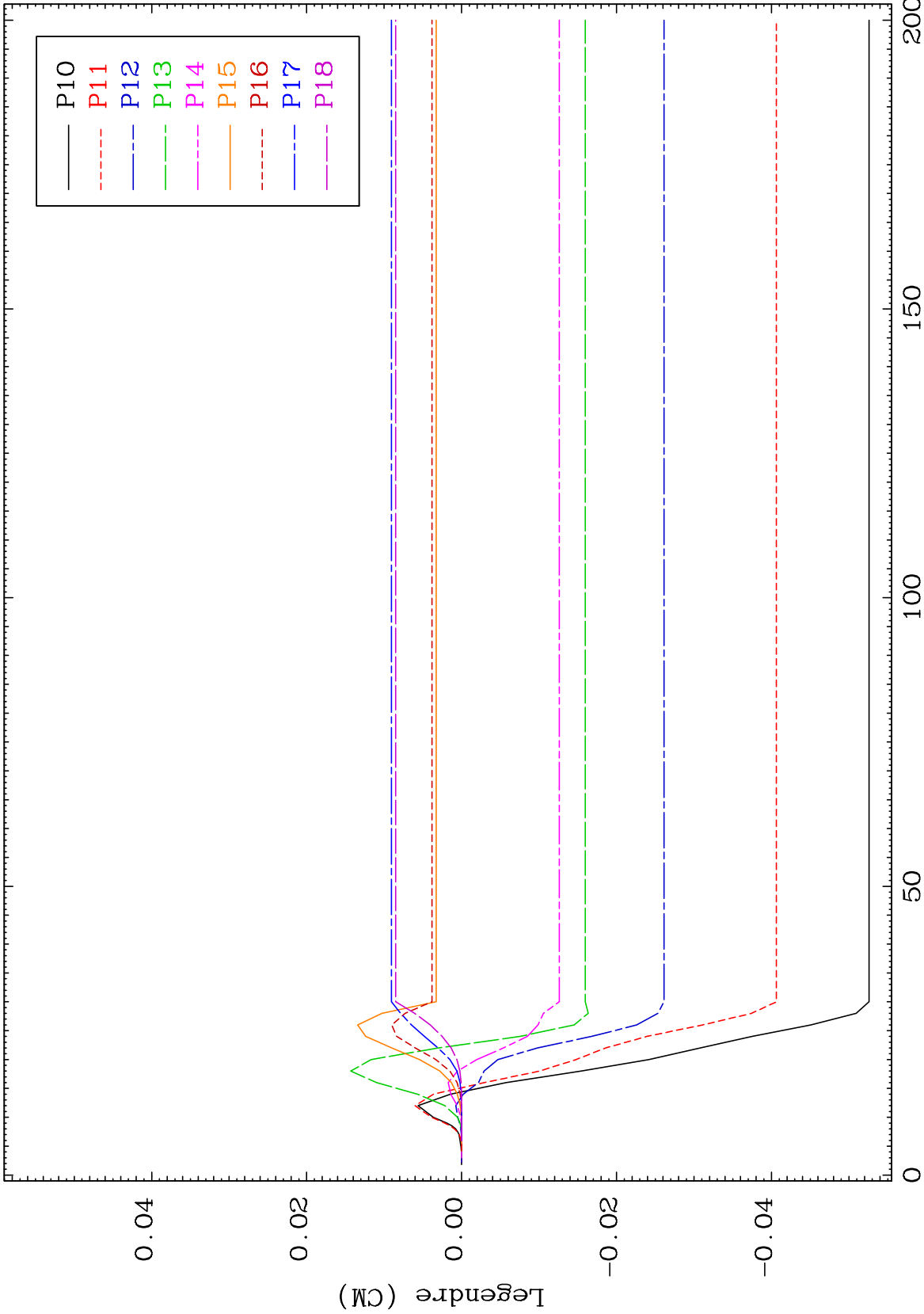
Incident Energy (MeV)

51-Sb-107

MAT 5083

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

51-Sb-107



28

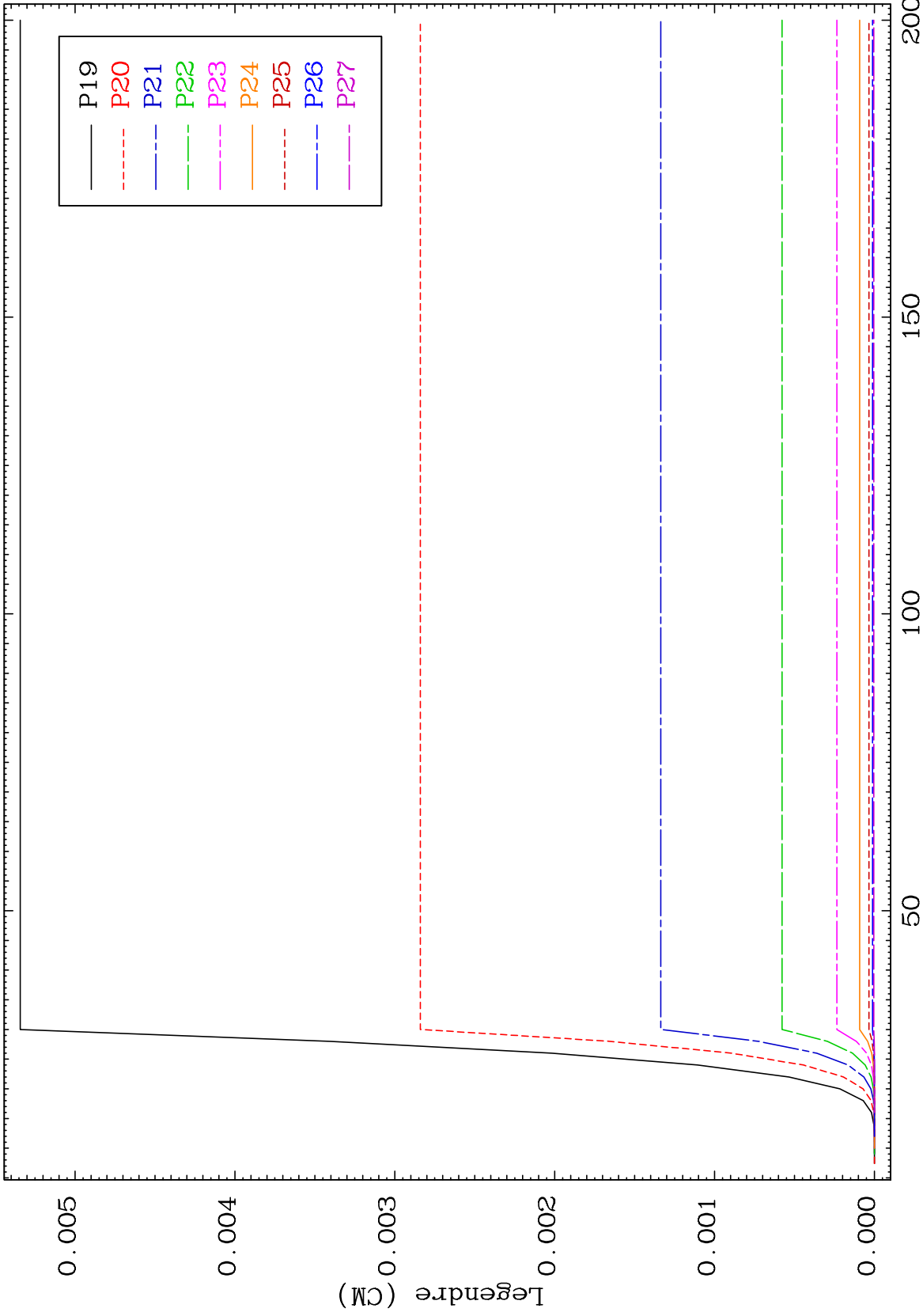
Incident Energy (MeV)

51-Sb-107

MAT 5083

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

51-Sb-107



29

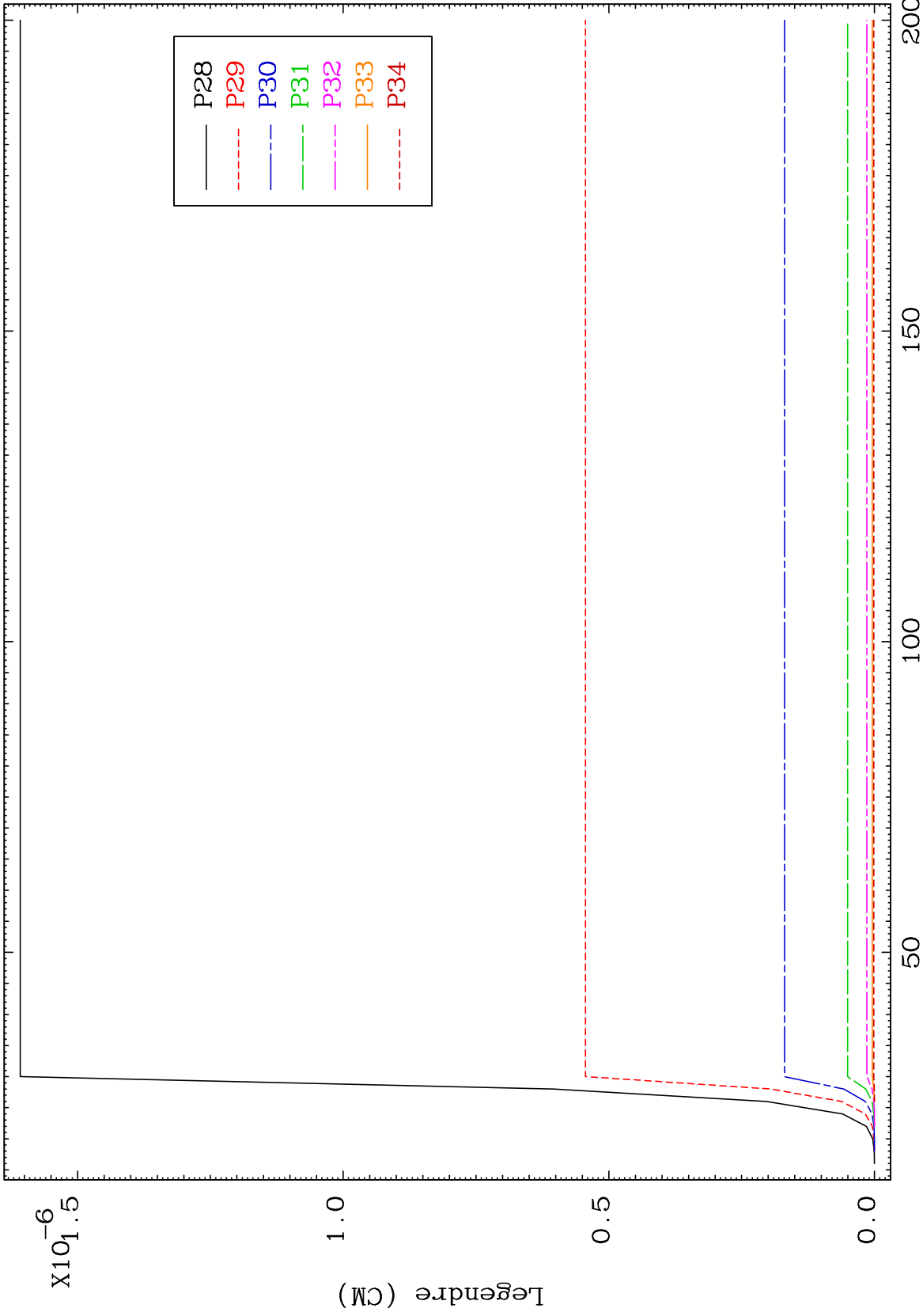
Incident Energy (MeV)

51-Sb-107

MAT 5083

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

51-Sb-107



30

Incident Energy (MeV)

50

100

150

200

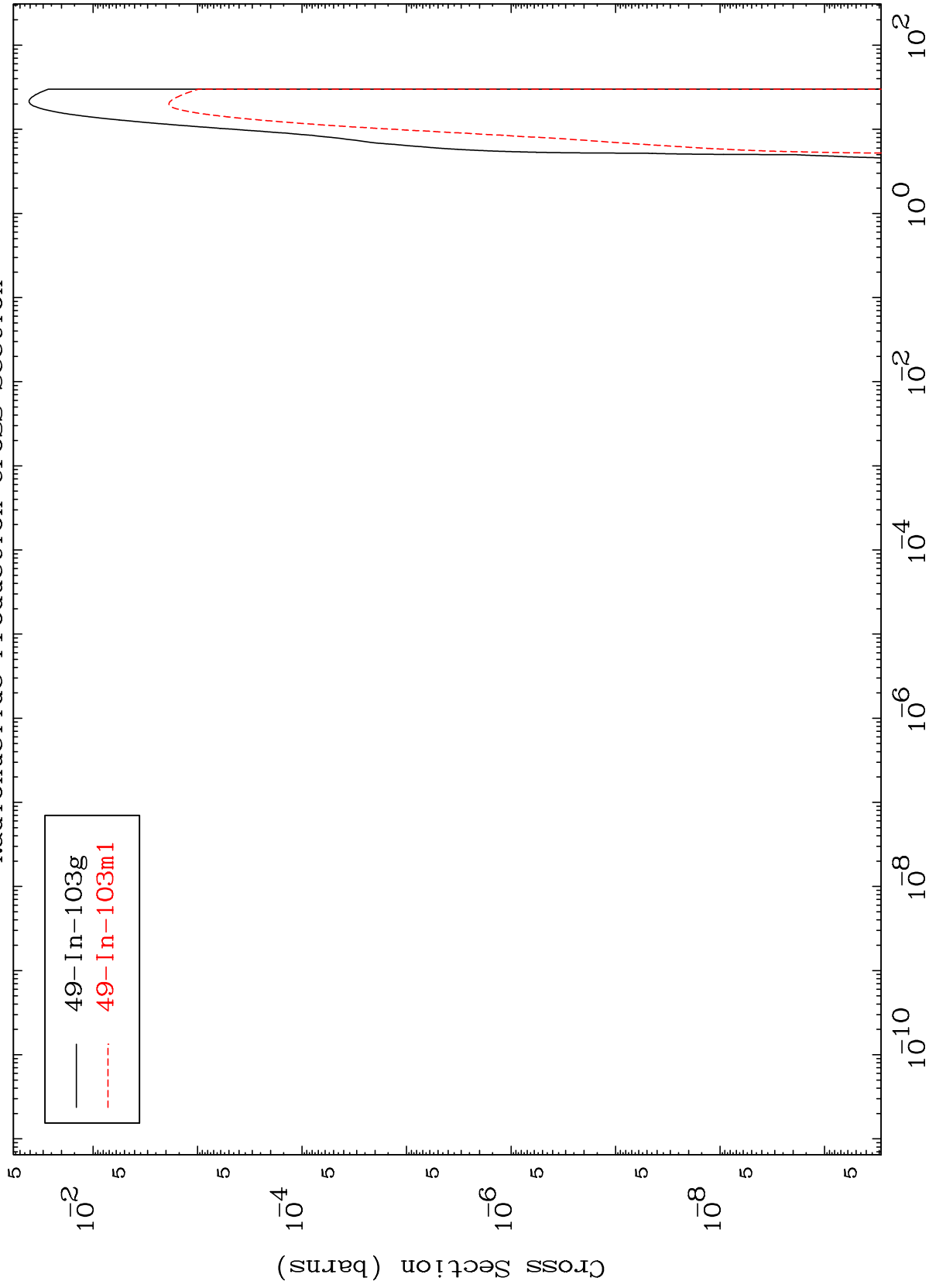
51-Sb-107

MAT 5083

(n,n')  $\alpha$

51-Sb-107

Radionuclide Production Cross Section



— 49-In-103g  
- - - 49-In-103m1

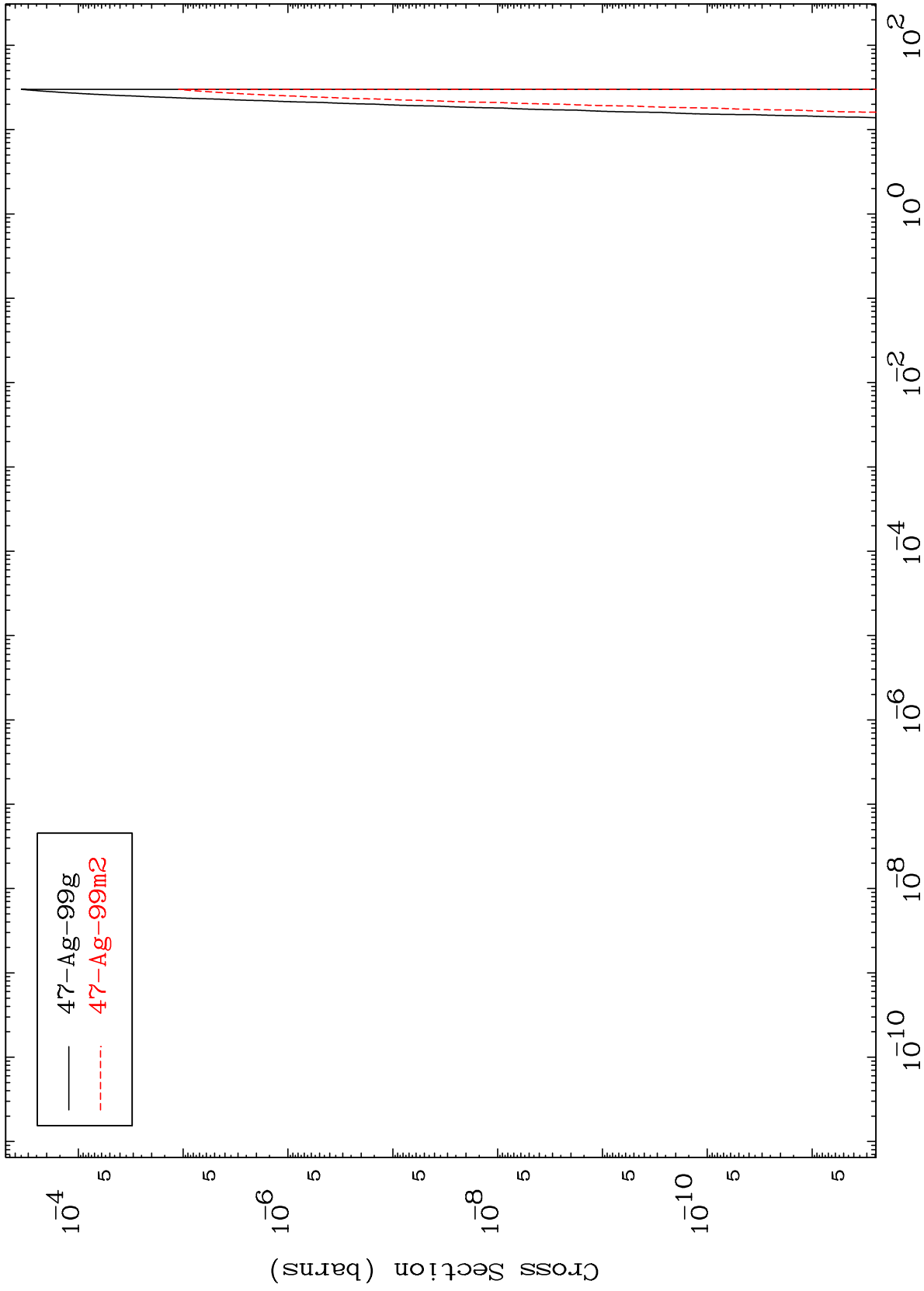


MAT 5083

(n,n') 2 $\alpha$

51-Sb-107

Radionuclide Production Cross Section



32

Incident Energy (MeV)

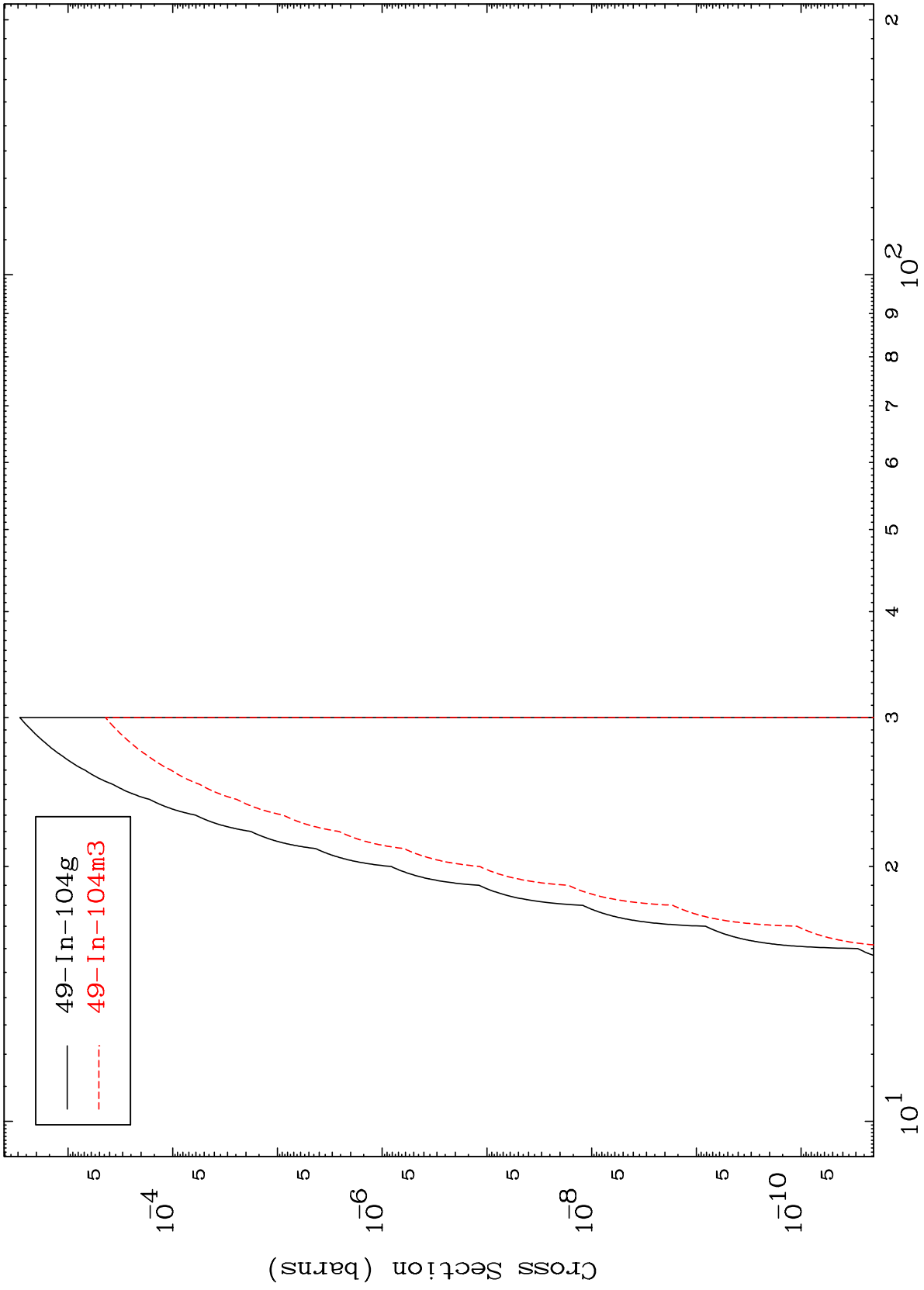
51-Sb-107

MAT 5083

(n, n') He-3

51-Sb-107

Radionuclide Production Cross Section



33

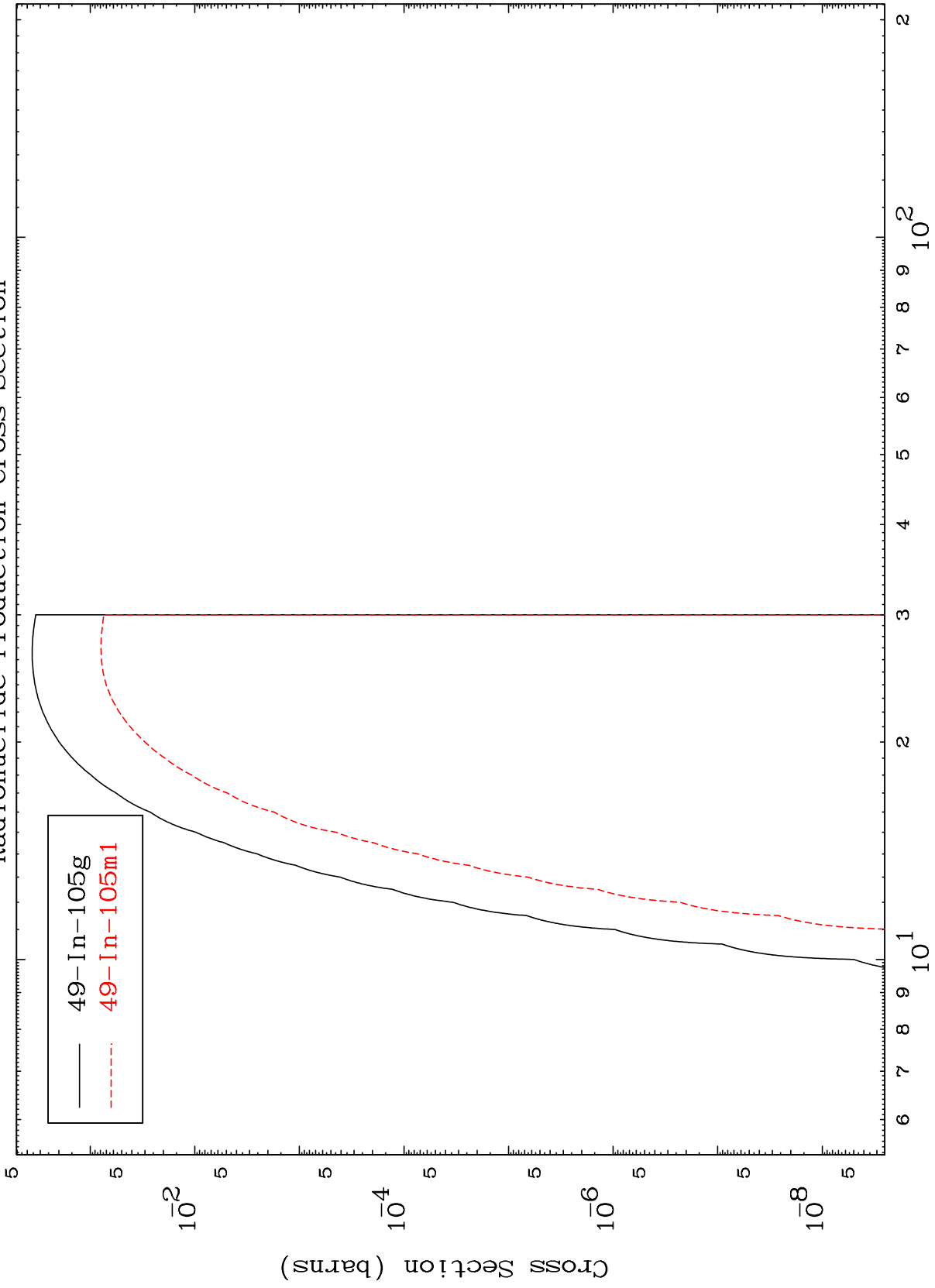
Incident Energy (MeV)

51-Sb-107

MAT 5083

51-Sb-107

(n,2n) p  
Radionuclide Production Cross Section



34

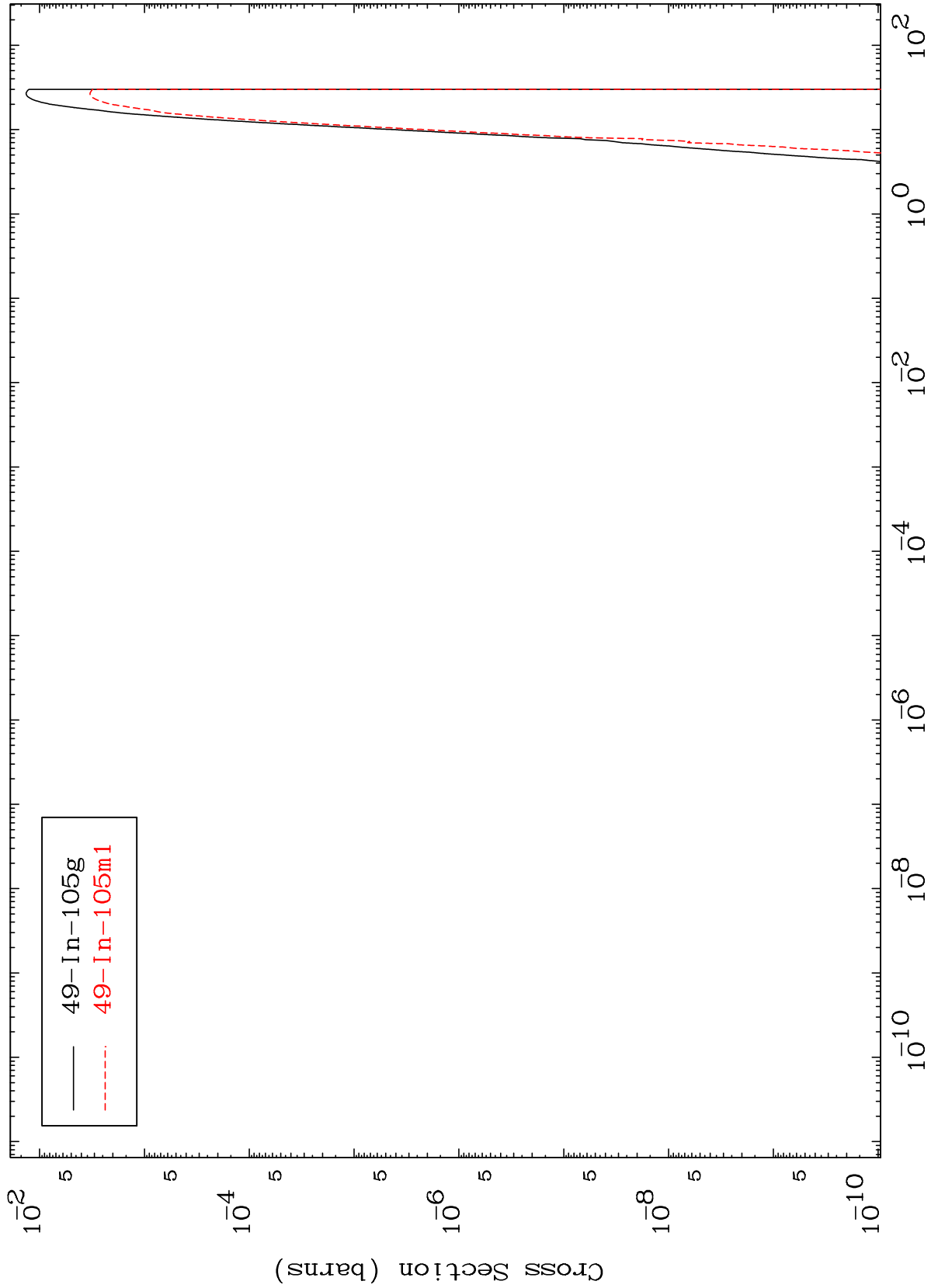
51-Sb-107

MAT 5083

(n,He-3)

51-Sb-107

Radionuclide Production Cross Section

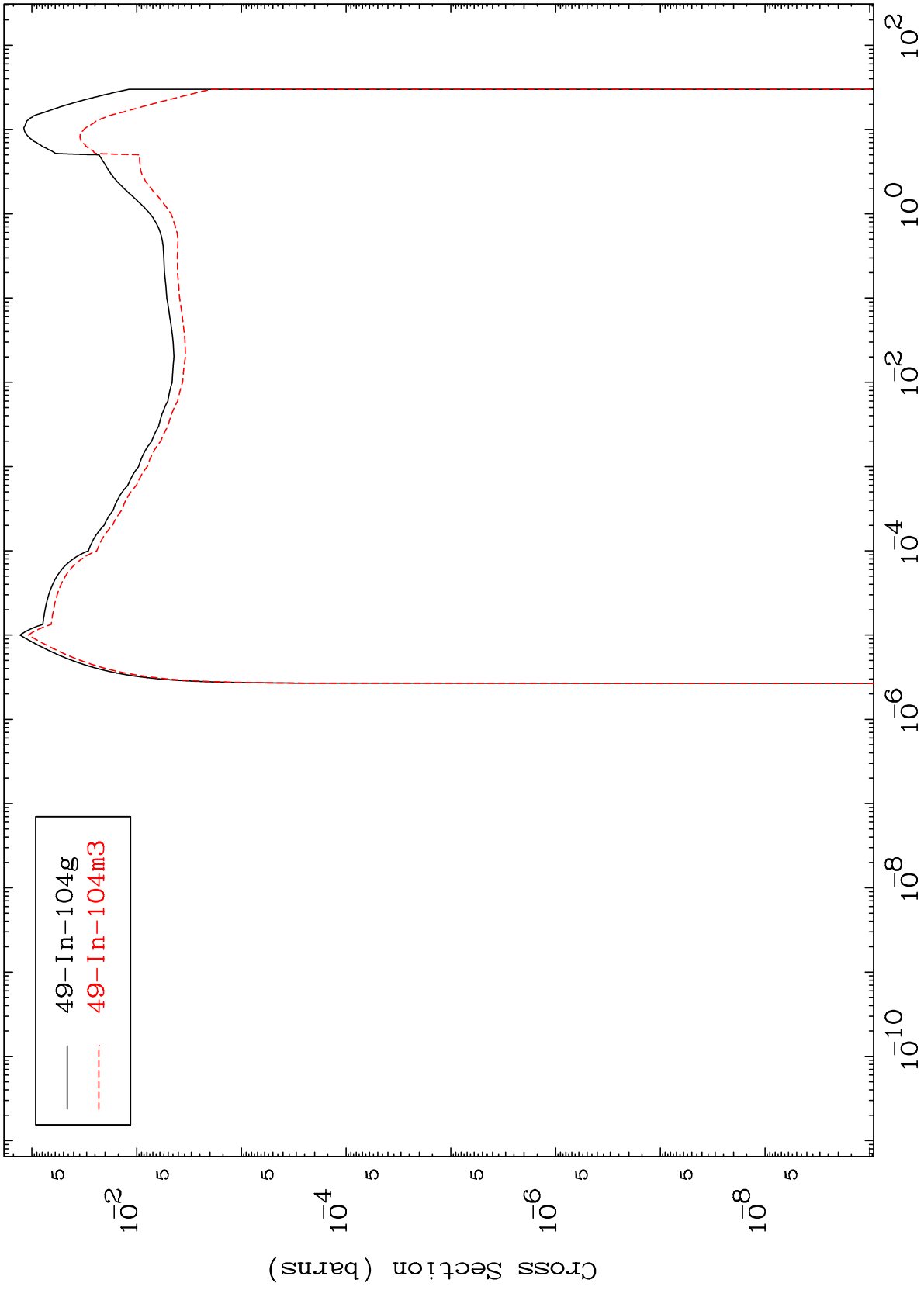


49-In-105g  
49-In-105m1

MAT 5083

(n,α)  
Radionuclide Production Cross Section

51-Sb-107



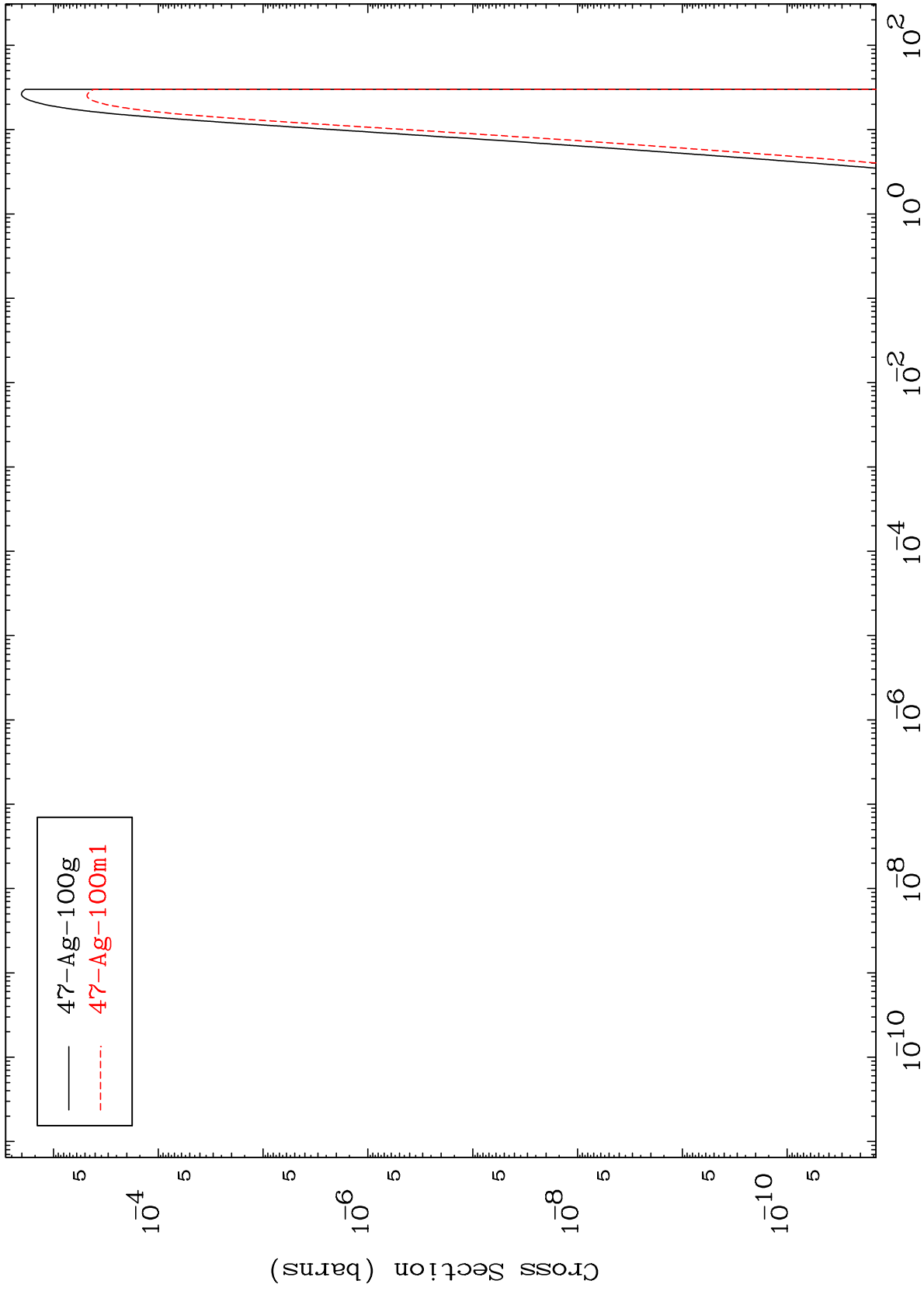
— 49-In-104g  
- - - 49-In-104m3

MAT 5083

(n,2α)

51-Sb-107

Radionuclide Production Cross Section



37

Incident Energy (MeV)

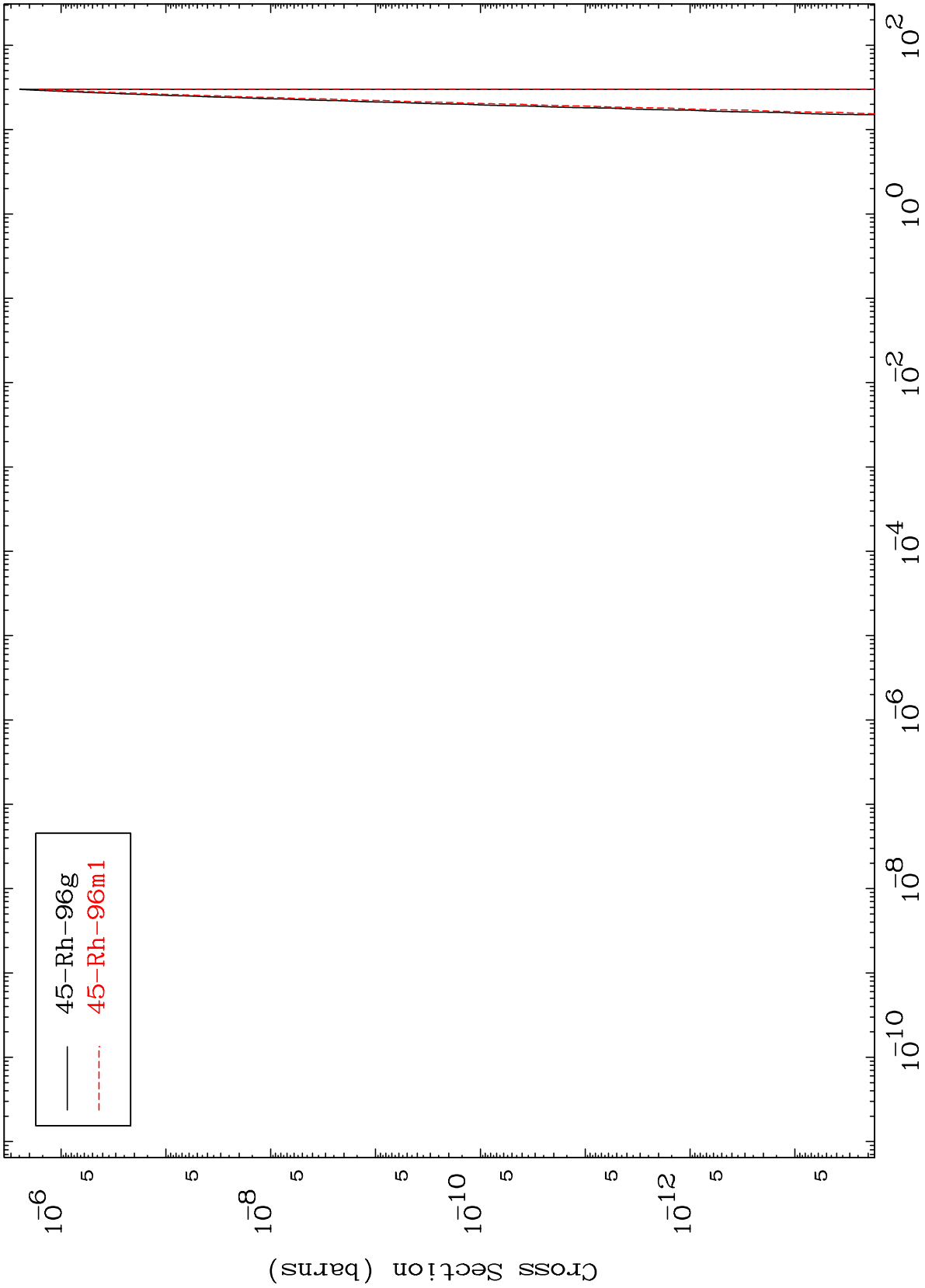
51-Sb-107

MAT 5083

(n,3α)

51-Sb-107

Radionuclide Production Cross Section

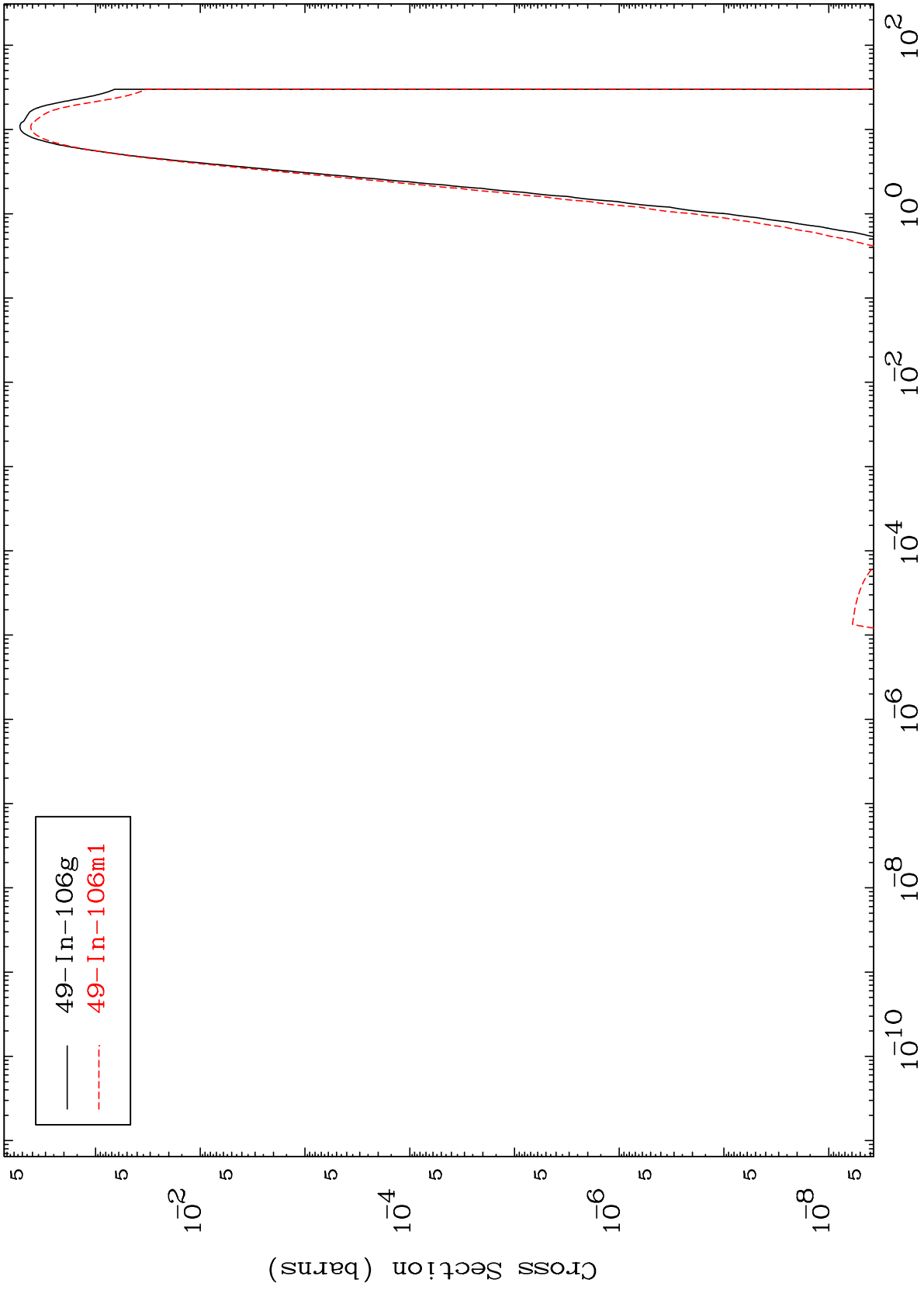


45-Rh-96g  
45-Rh-96m1

MAT 5083

Radionuclide Production Cross Section  
(n,2p)

51-Sb-107



39

Incident Energy (MeV)

51-Sb-107

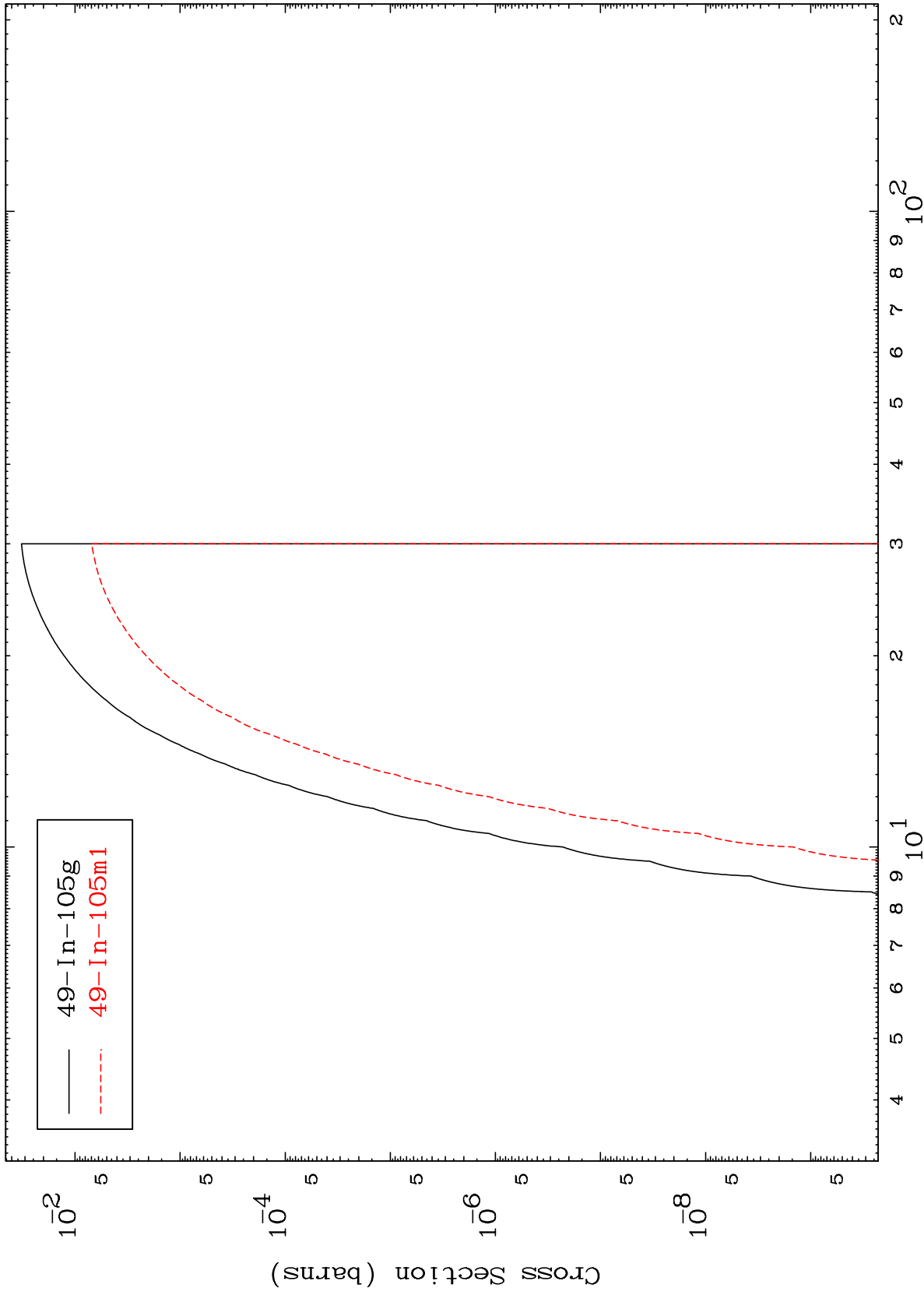


MAT 5083

(n,p) d

51-Sb-107

Radionuclide Production Cross Section



40

Incident Energy (MeV)

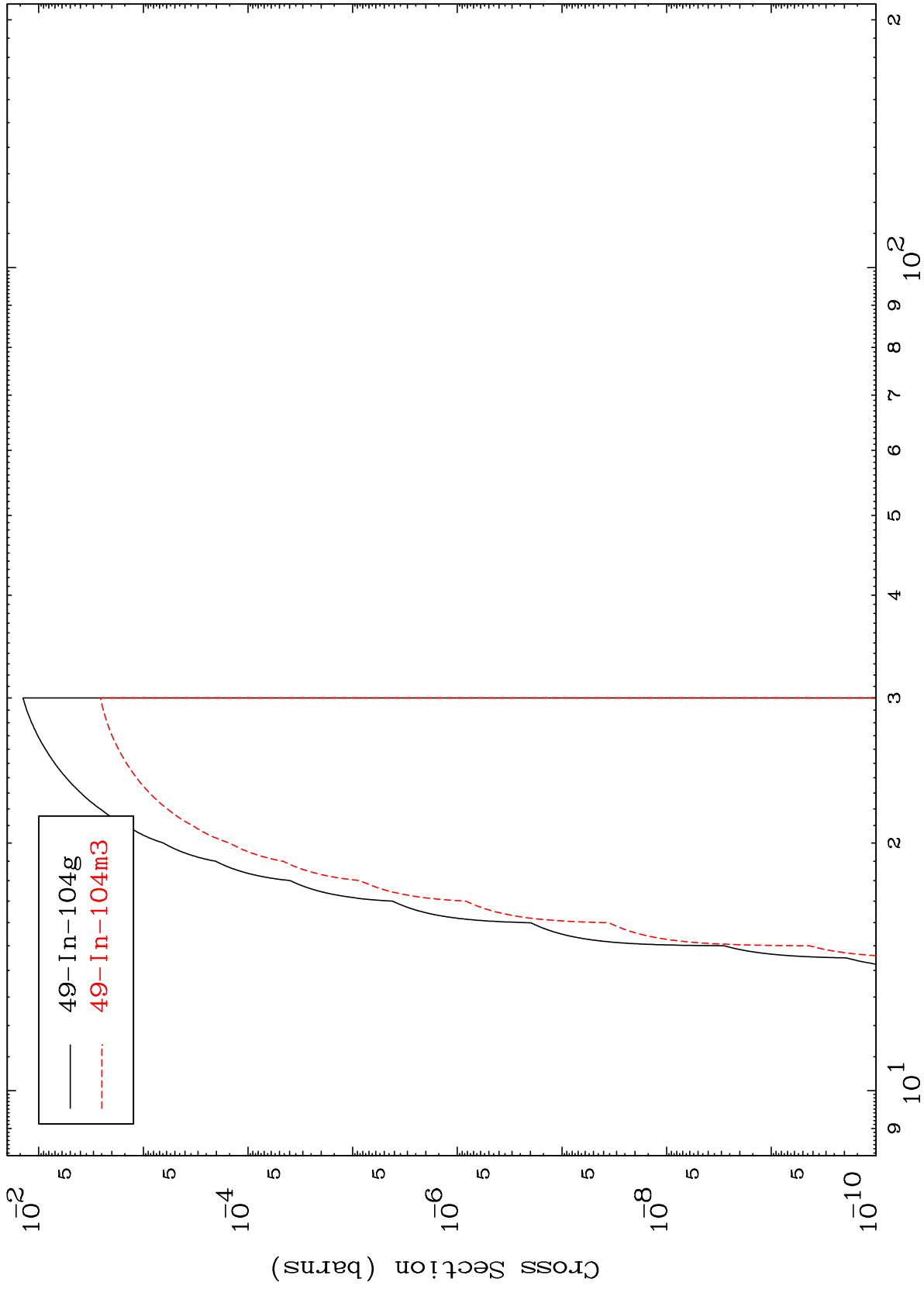
51-Sb-107

MAT 5083

(n,p) t

51-Sb-107

Radionuclide Production Cross Section



41

Incident Energy (MeV)

51-Sb-107