

Program EVALPLOT
(Version 2015-2)

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:home.comcast.net/~redcullen1

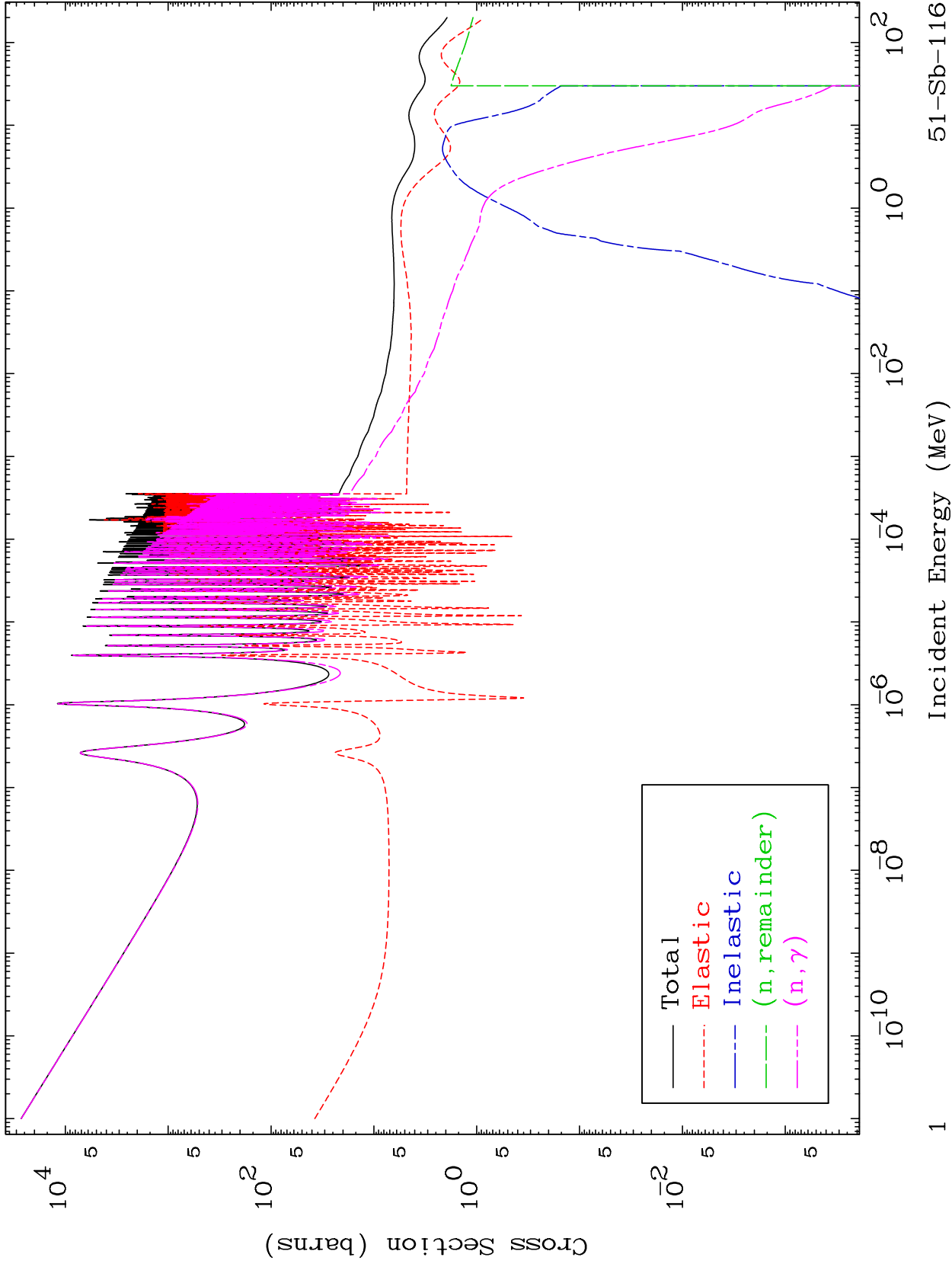
Press Mouse Button to Start

MAT 5111

Major

293 Kelvin Cross Sections

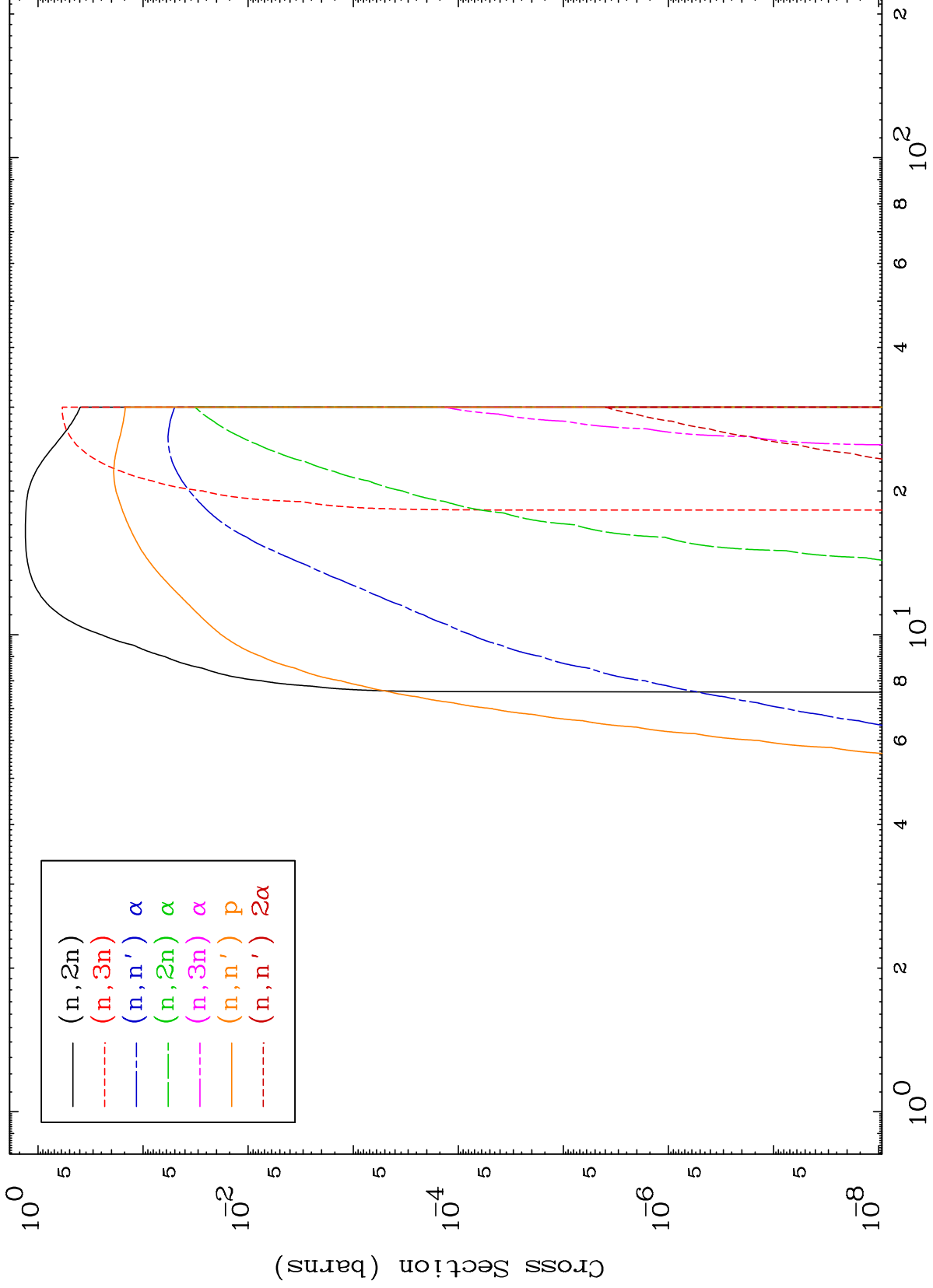
51-Sb-116



MAT 5111

Neutron Production
293 Kelvin Cross Sections

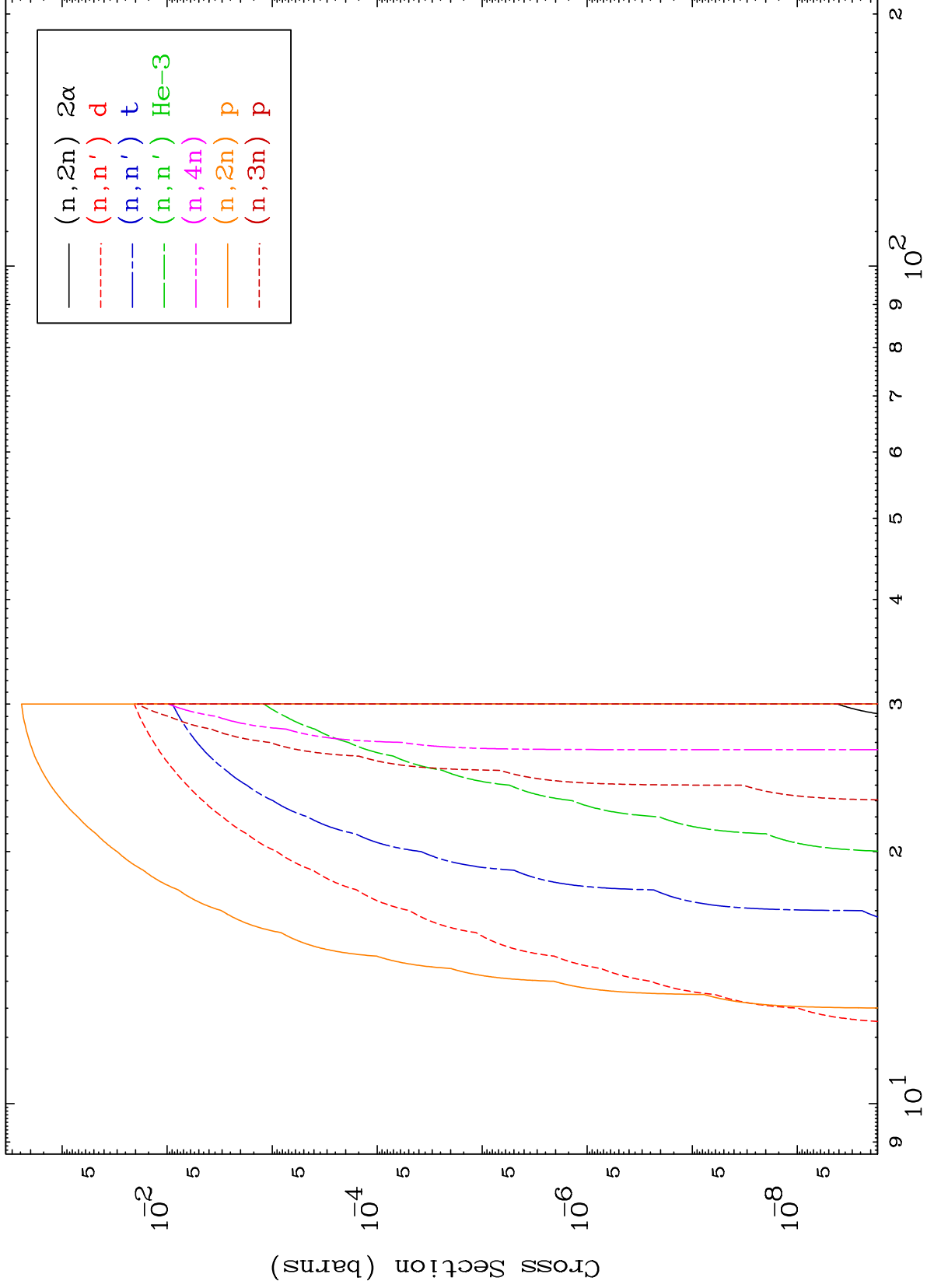
51-Sb-116

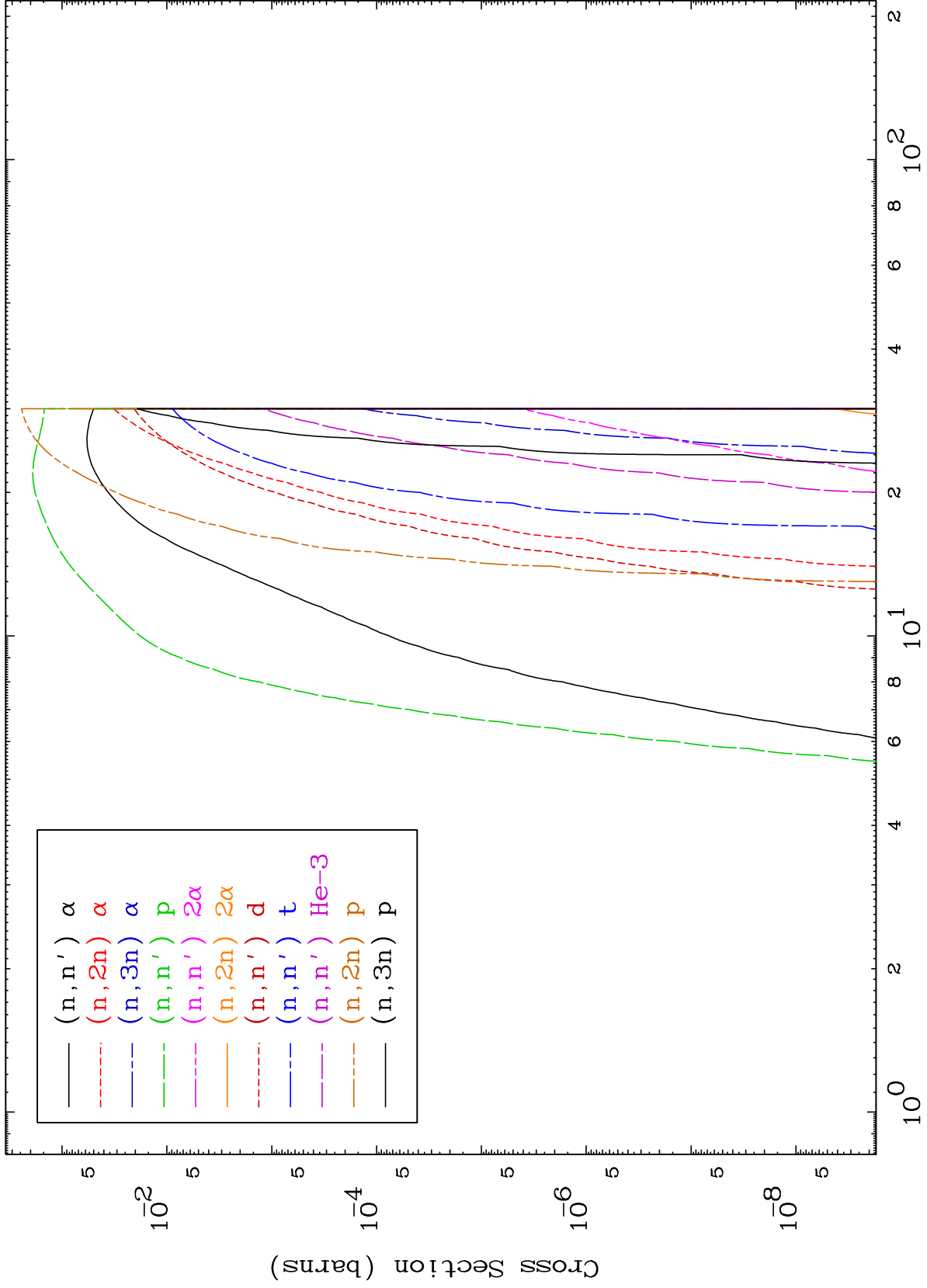


51-Sb-116

Incident Energy (MeV)

2

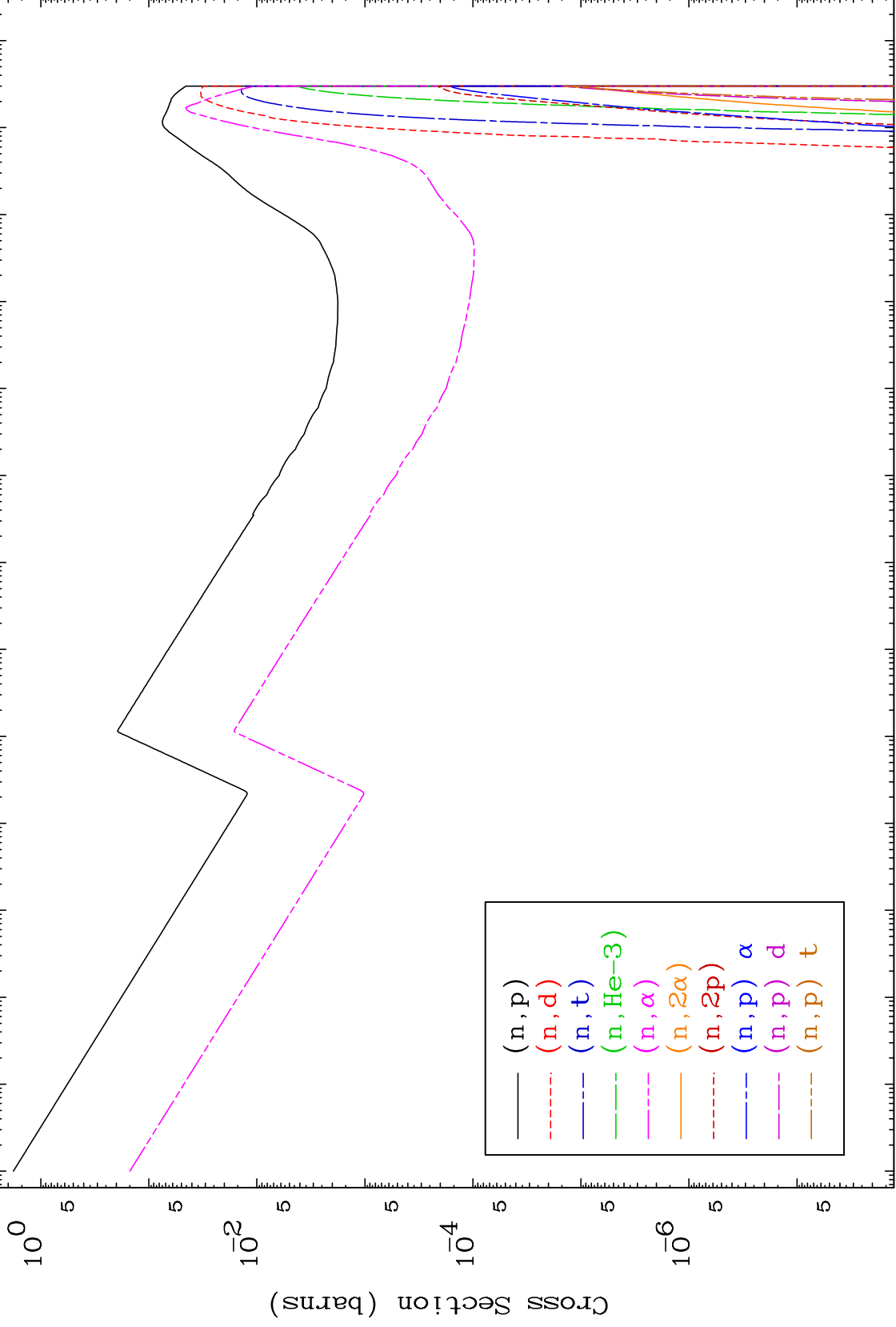




MAT 5111

Charged Particle
293 Kelvin Cross Sections

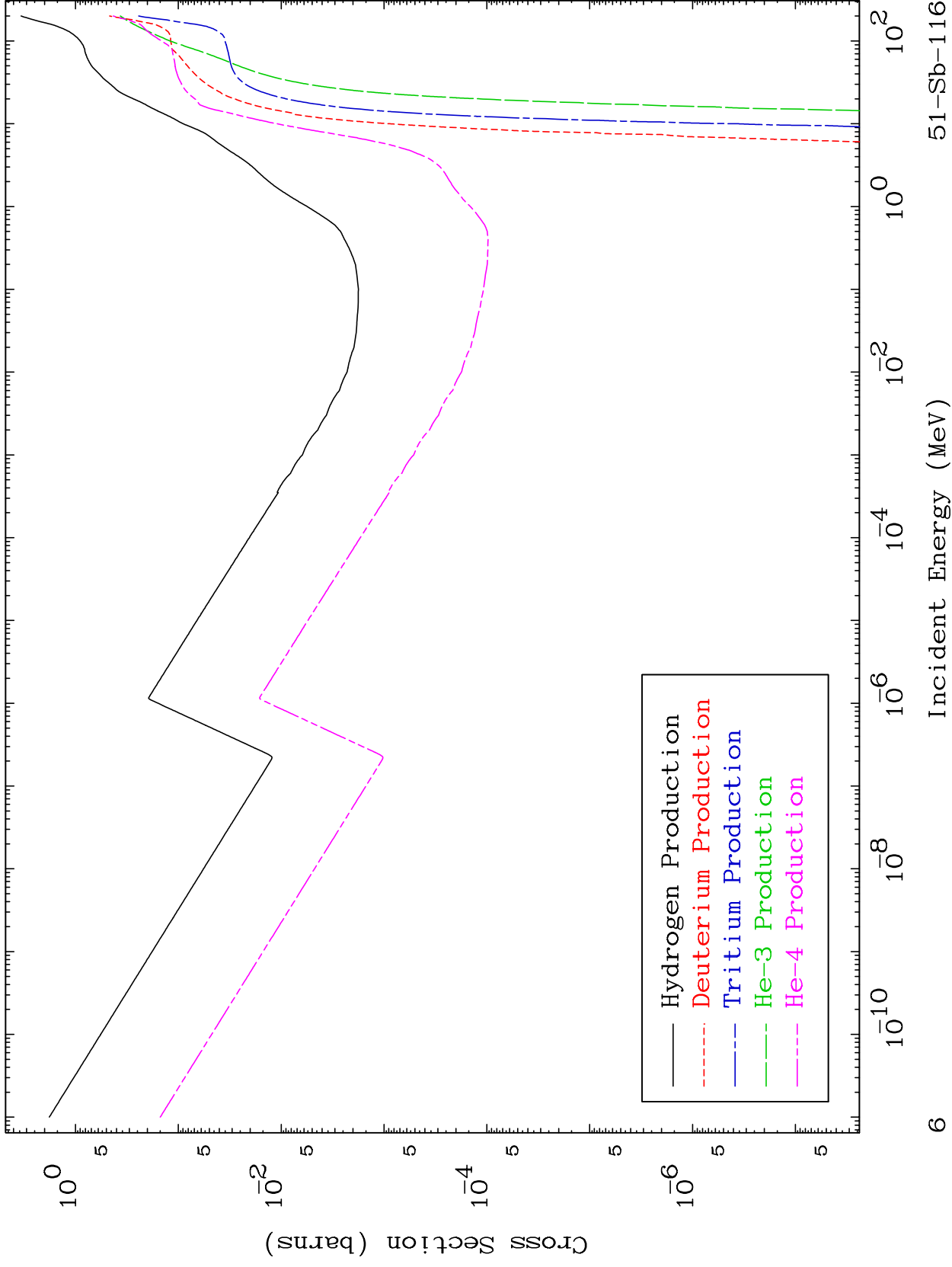
51-Sb-116



MAT 5111

Particle Production
293 Kelvin Cross Sections

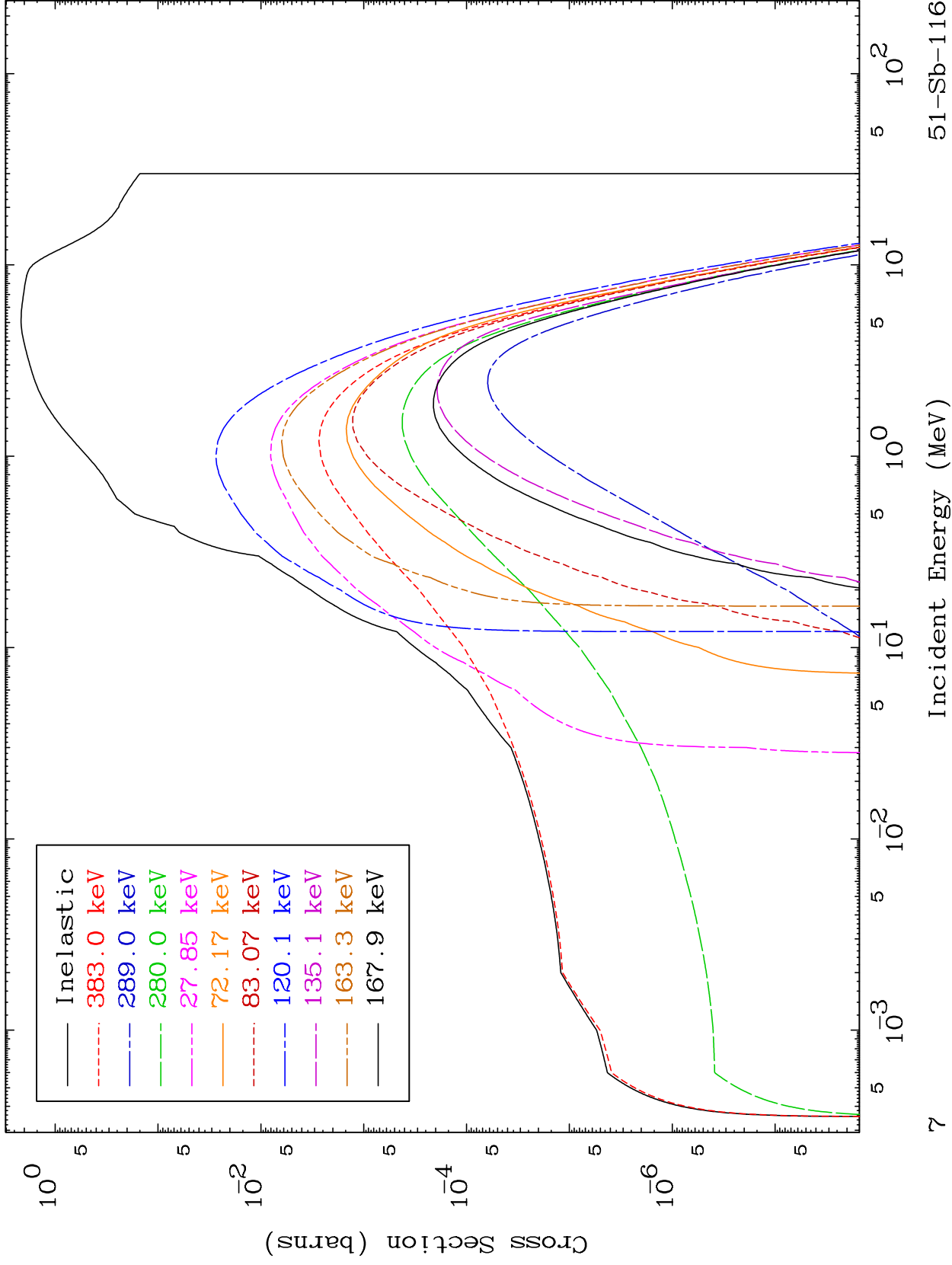
51-Sb-116



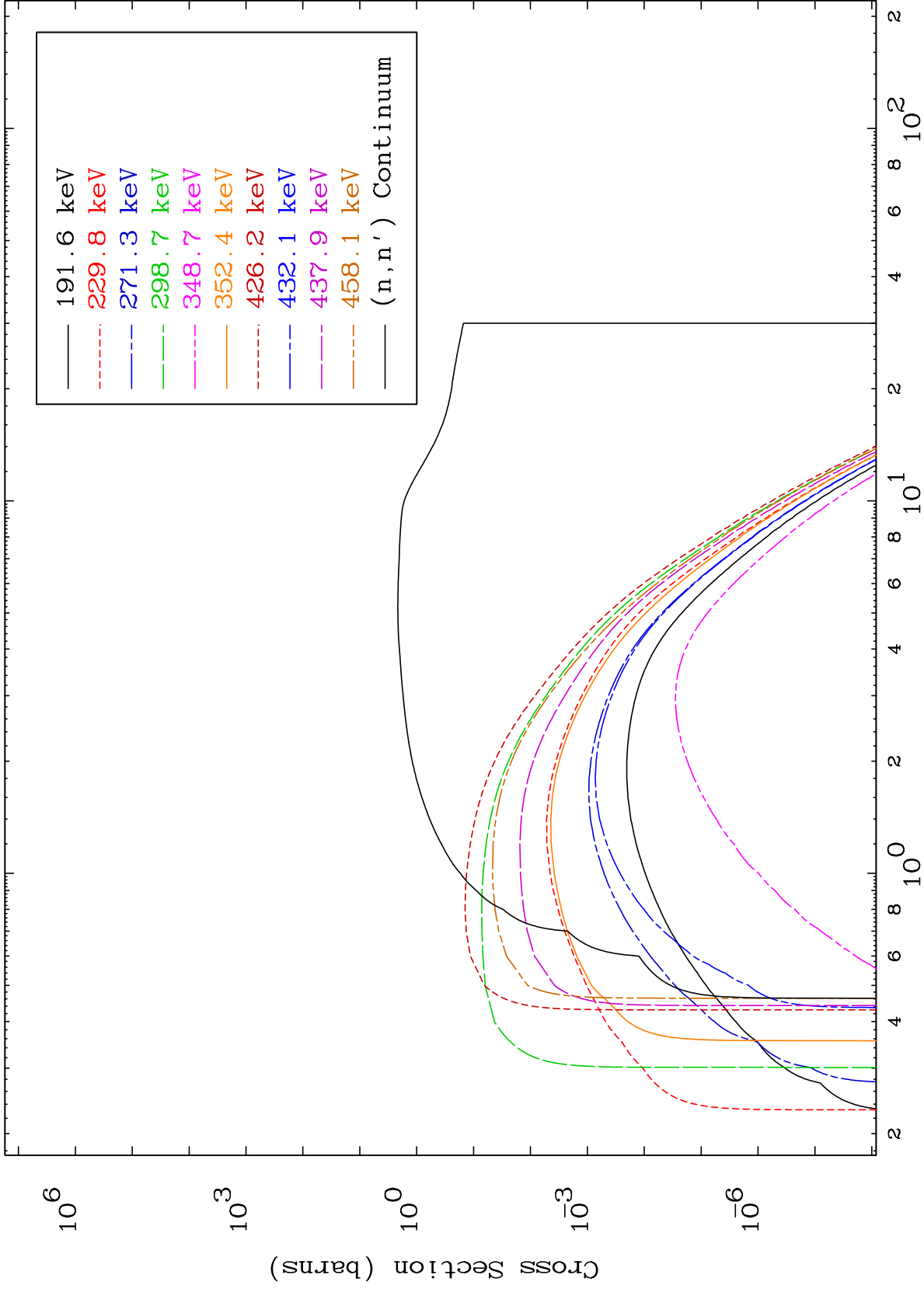
MAT 5111

(n,n') Level
293 Kelvin Cross Sections

51-Sb-116



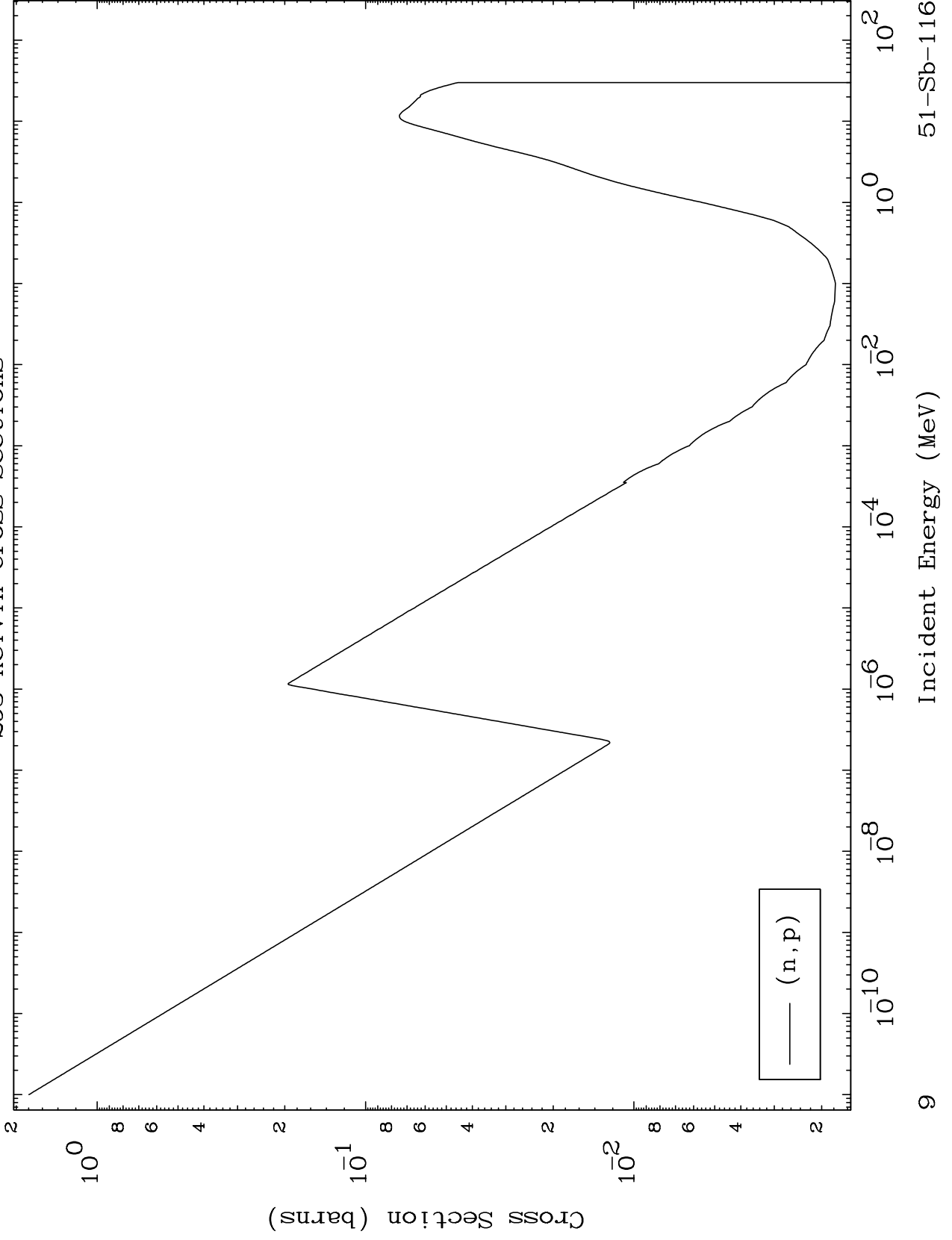
293 Kelvin Cross Sections



MAT 5111

(n,p) Levels
293 Kelvin Cross Sections

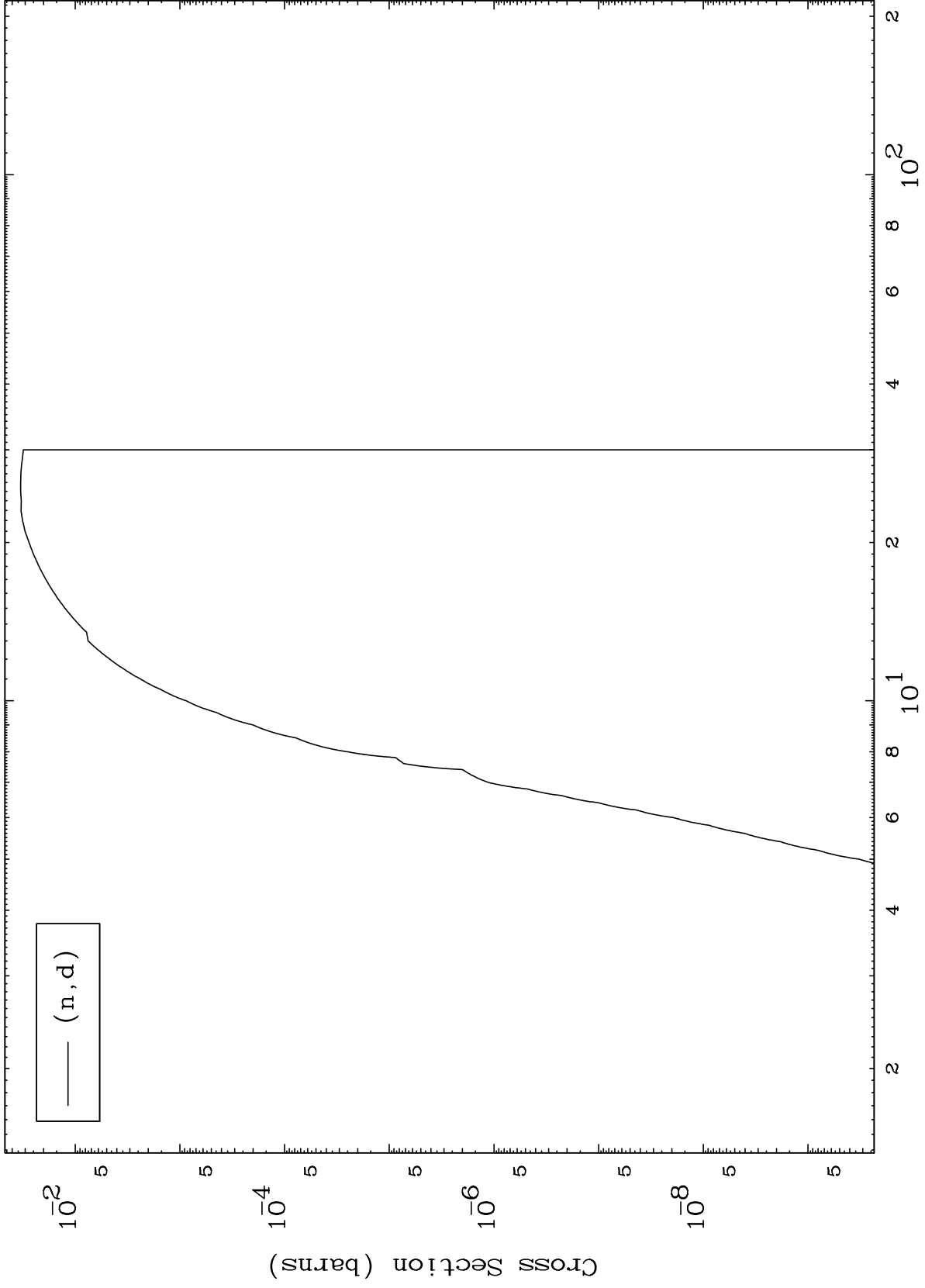
51-Sb-116



MAT 5111

(n,d) Levels
293 Kelvin Cross Sections

51-Sb-116



10

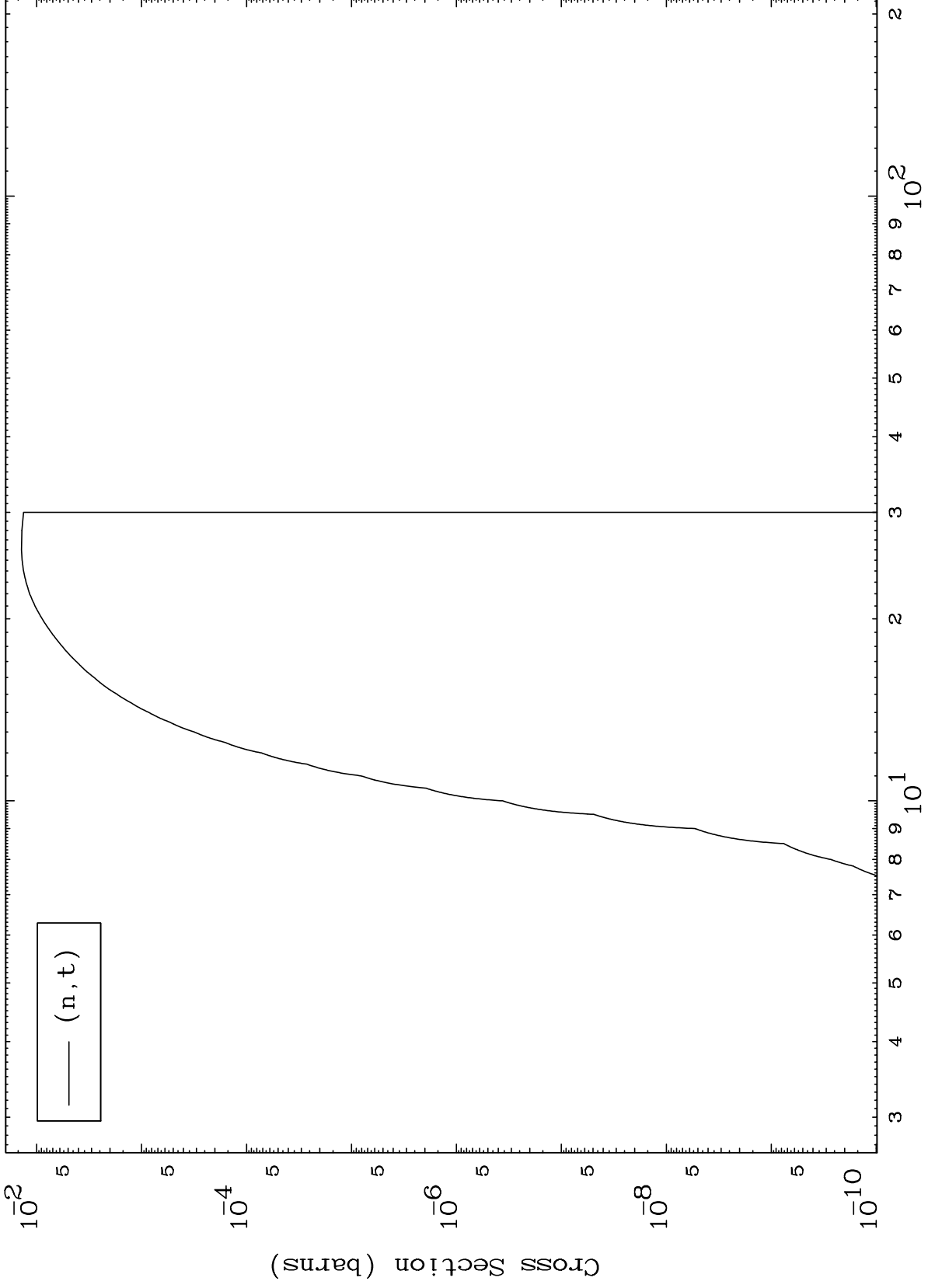
Incident Energy (MeV)

51-Sb-116

MAT 5111

(n,t) Levels
293 Kelvin Cross Sections

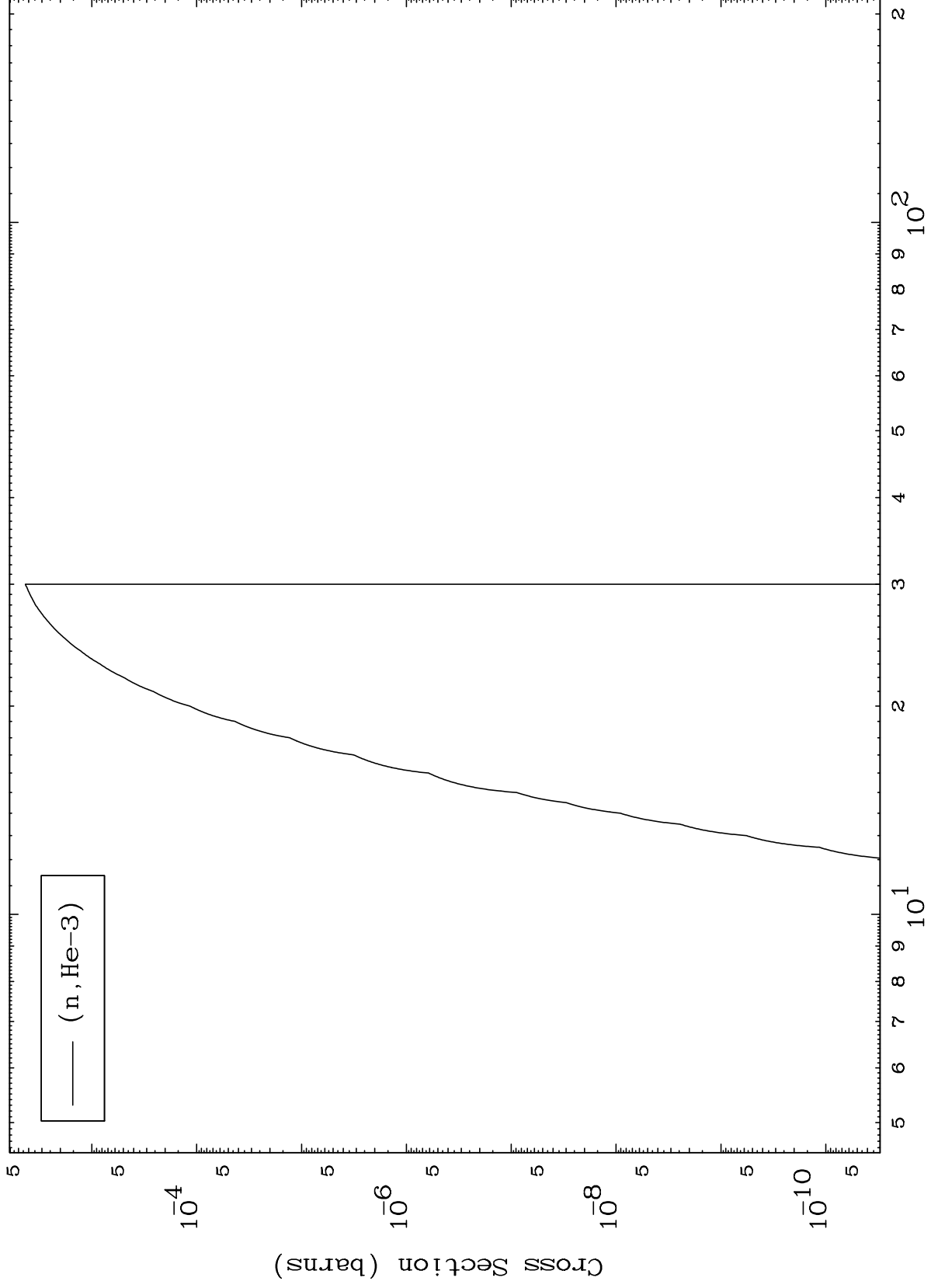
51-Sb-116



MAT 5111

(n,He3) Levels
293 Kelvin Cross Sections

51-Sb-116



(n, He-3)

12

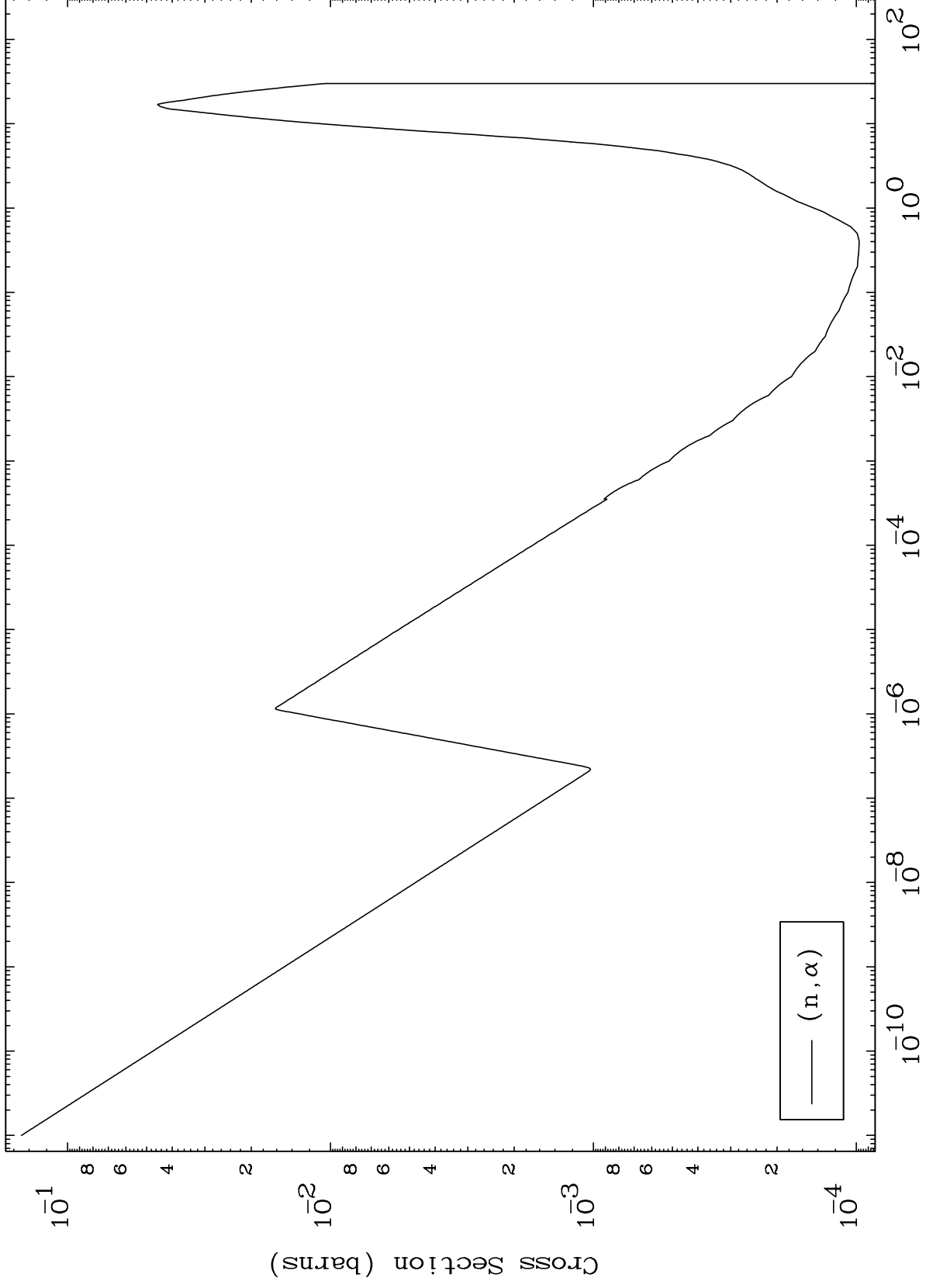
Incident Energy (MeV)

51-Sb-116

MAT 5111

(n,α) Levels
293 Kelvin Cross Sections

51-Sb-116

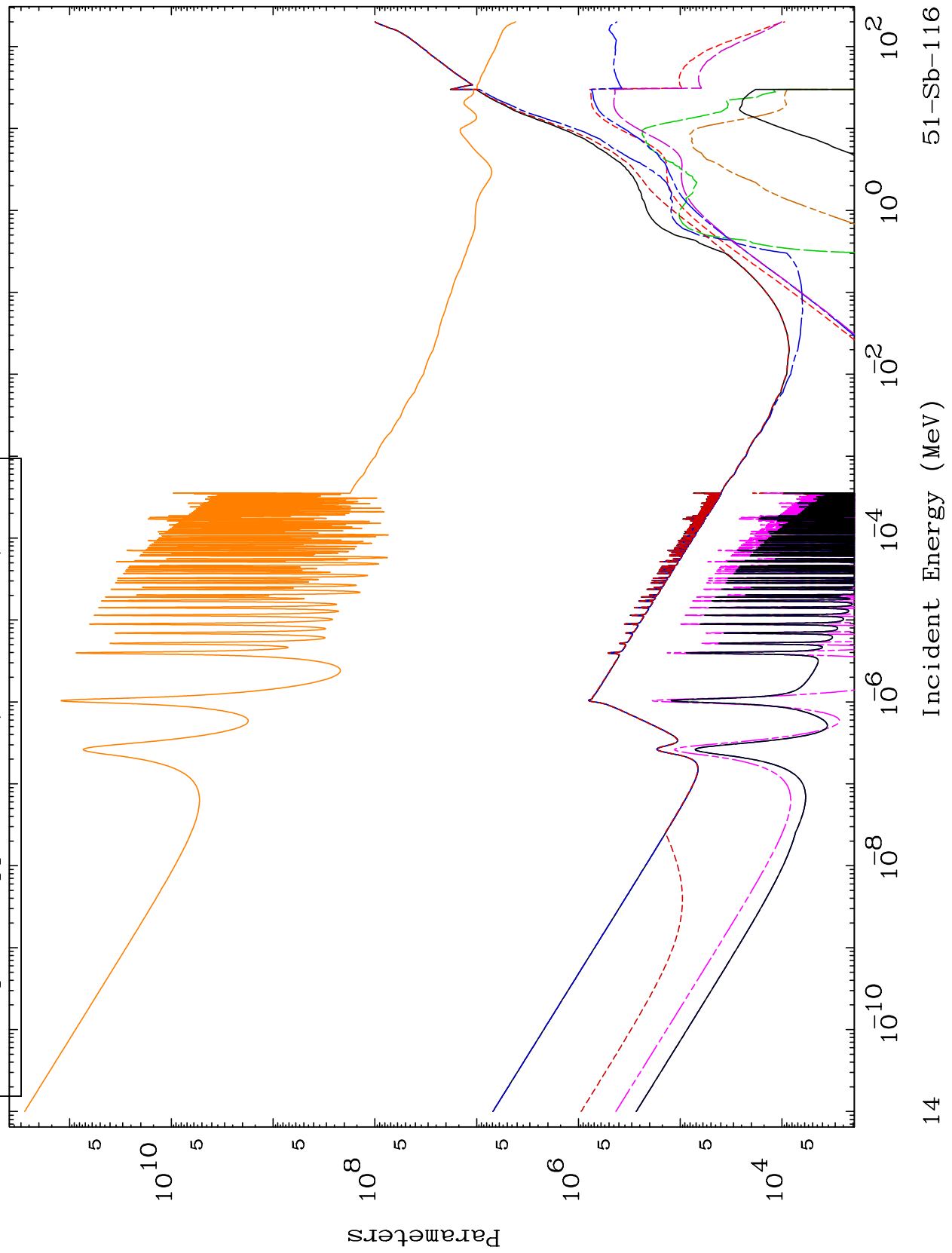


13

51-Sb-116

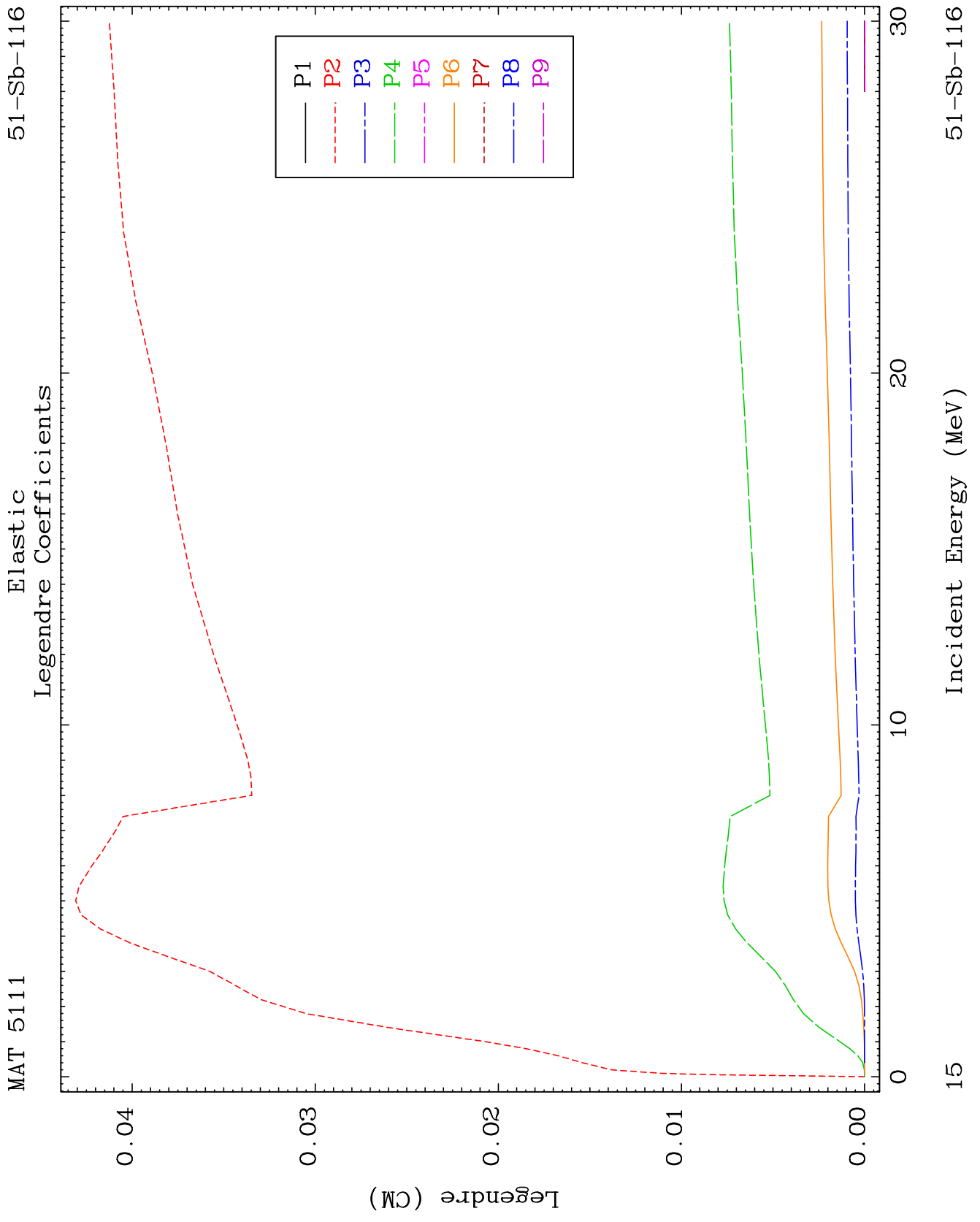
Total kinematic kerma (high limit)
 Total kinematic kerma (low limit)
 Dpa total (eV-barns)
 Dpa elastic (mt2)
 Dpa inelastic (mt51-91)
 Energy Release
 Dpa disappearance (mt102Parameters)

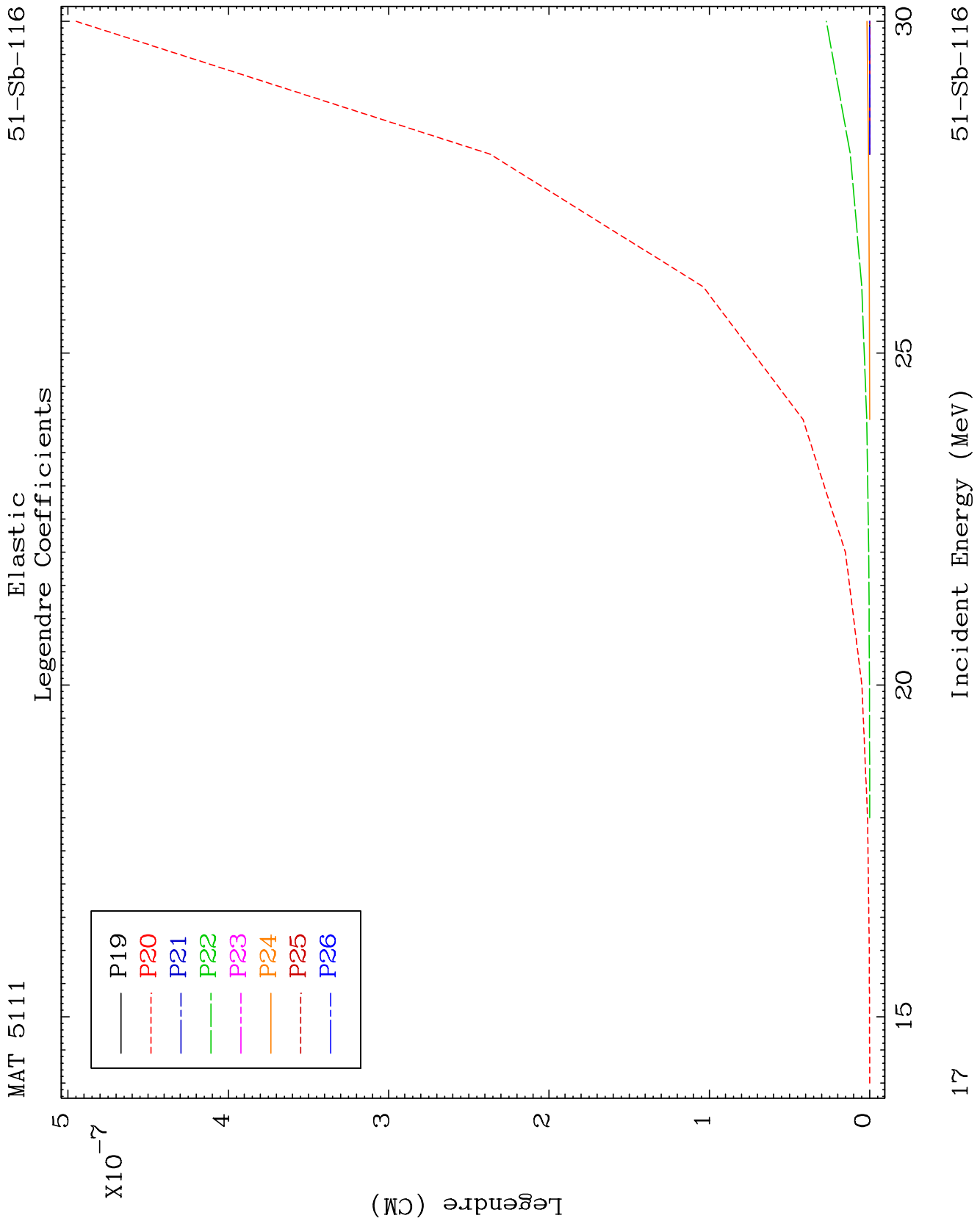
51-Sb-116



51-Sb-116

Incident Energy (MeV)

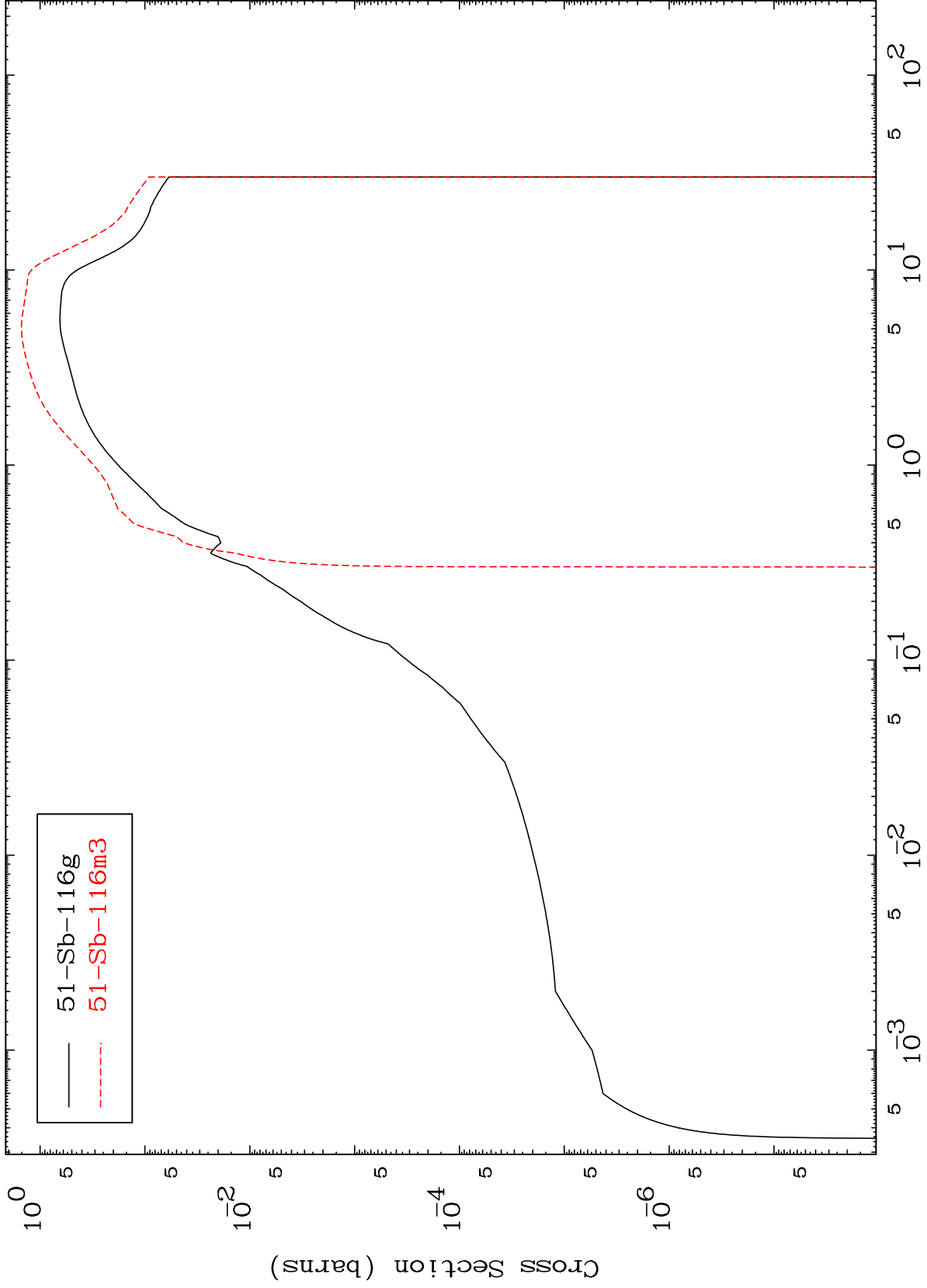




MAT 5111

51-Sb-116

Inelastic
Radionuclide Production Cross Section

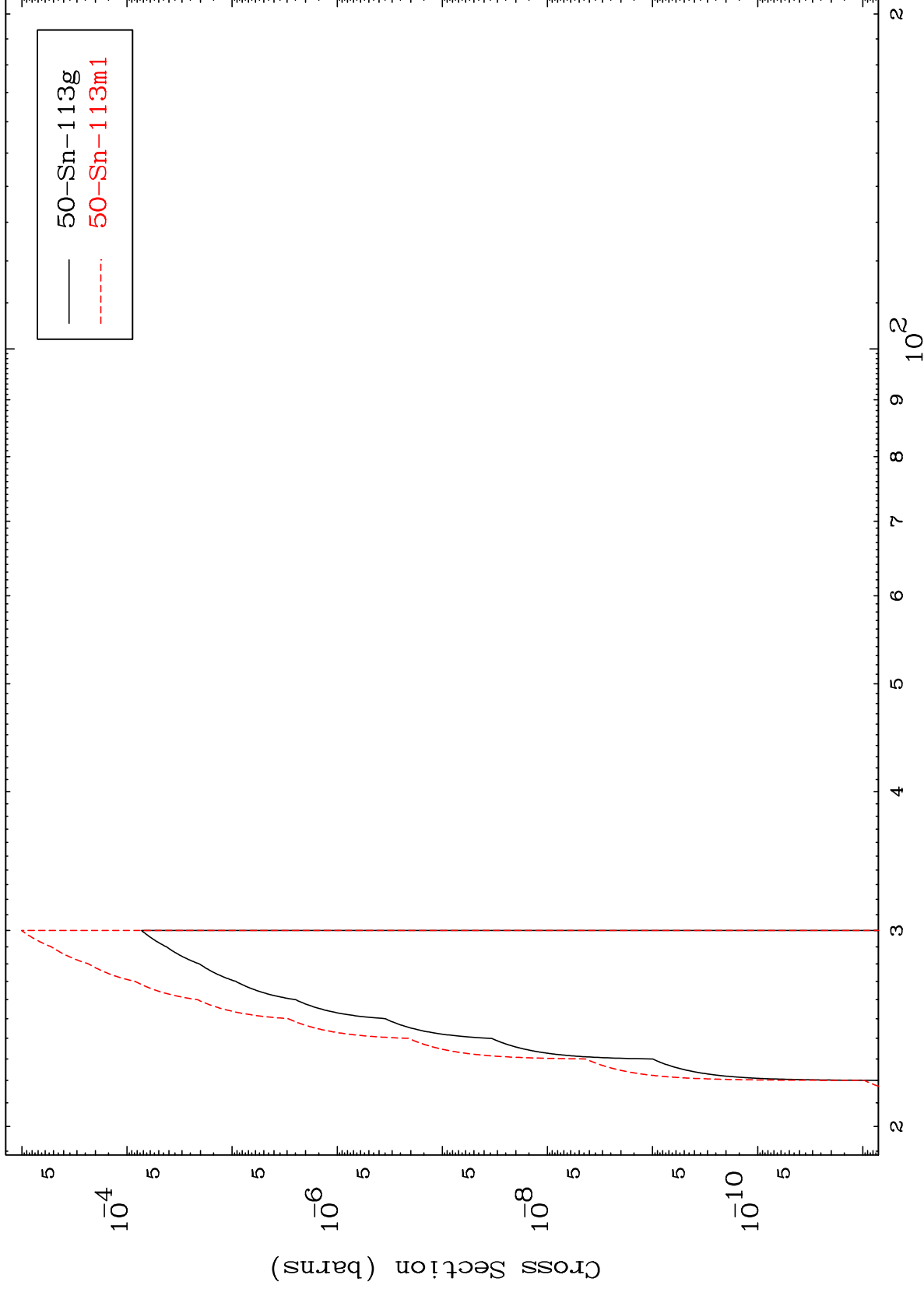


18

51-Sb-116

Incident Energy (MeV)

Radionuclide Production Cross Section

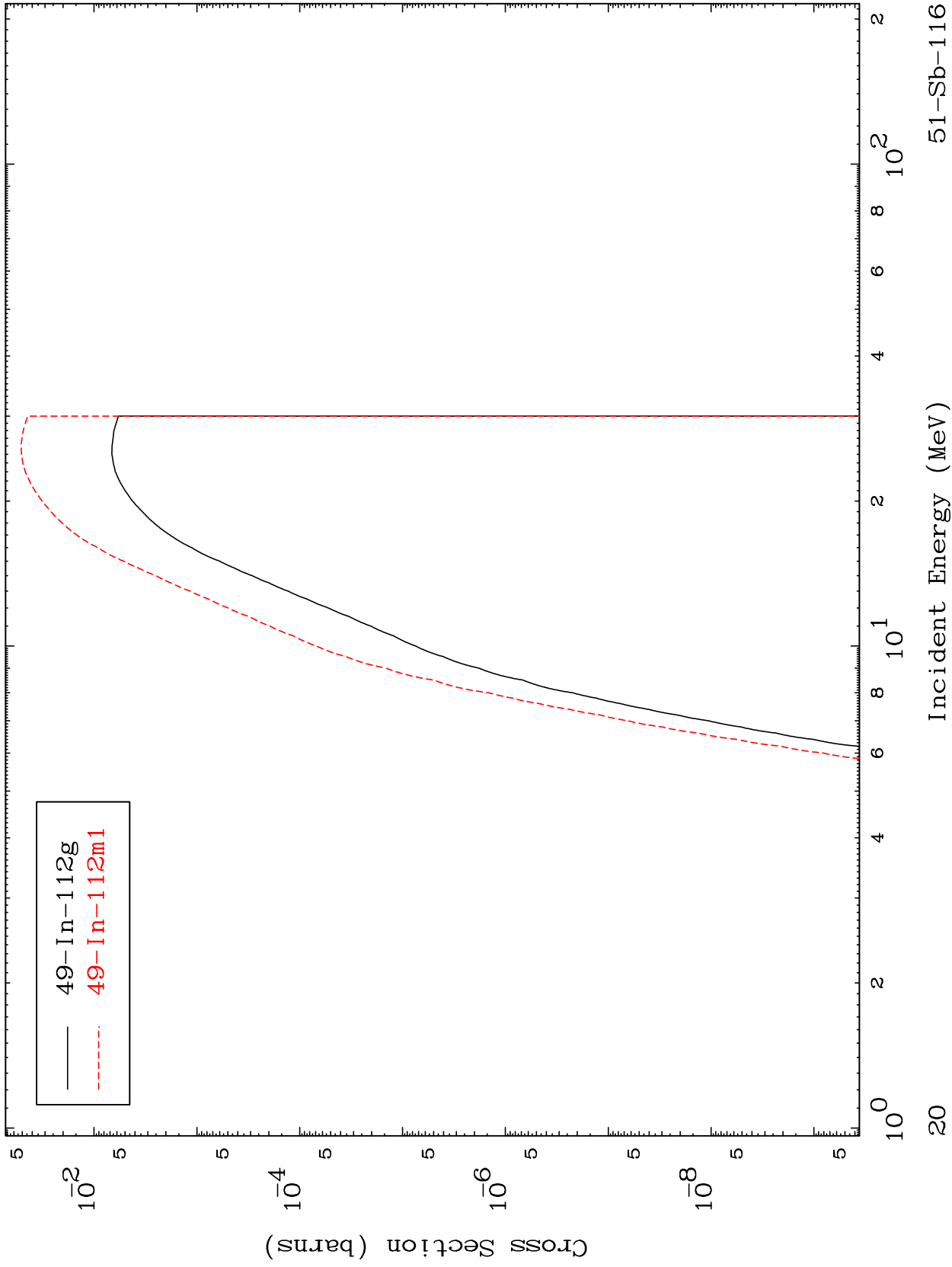


MAT 5111

51-Sb-116

(n,n') α

Radionuclide Production Cross Section



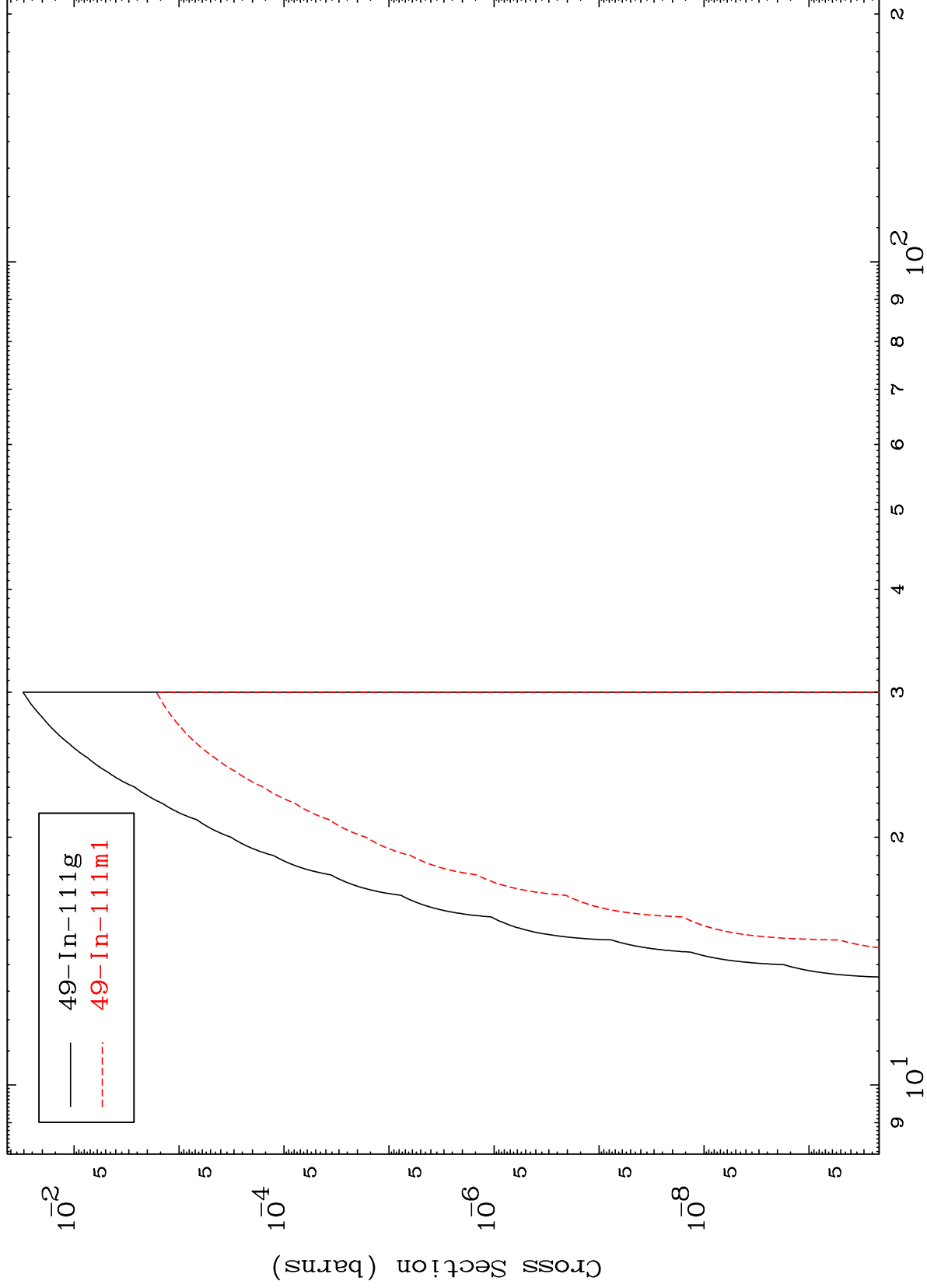
— 49-In-112g
- - - 49-In-112m1

MAT 5111

(n,2n) α

51-Sb-116

Radionuclide Production Cross Section



21

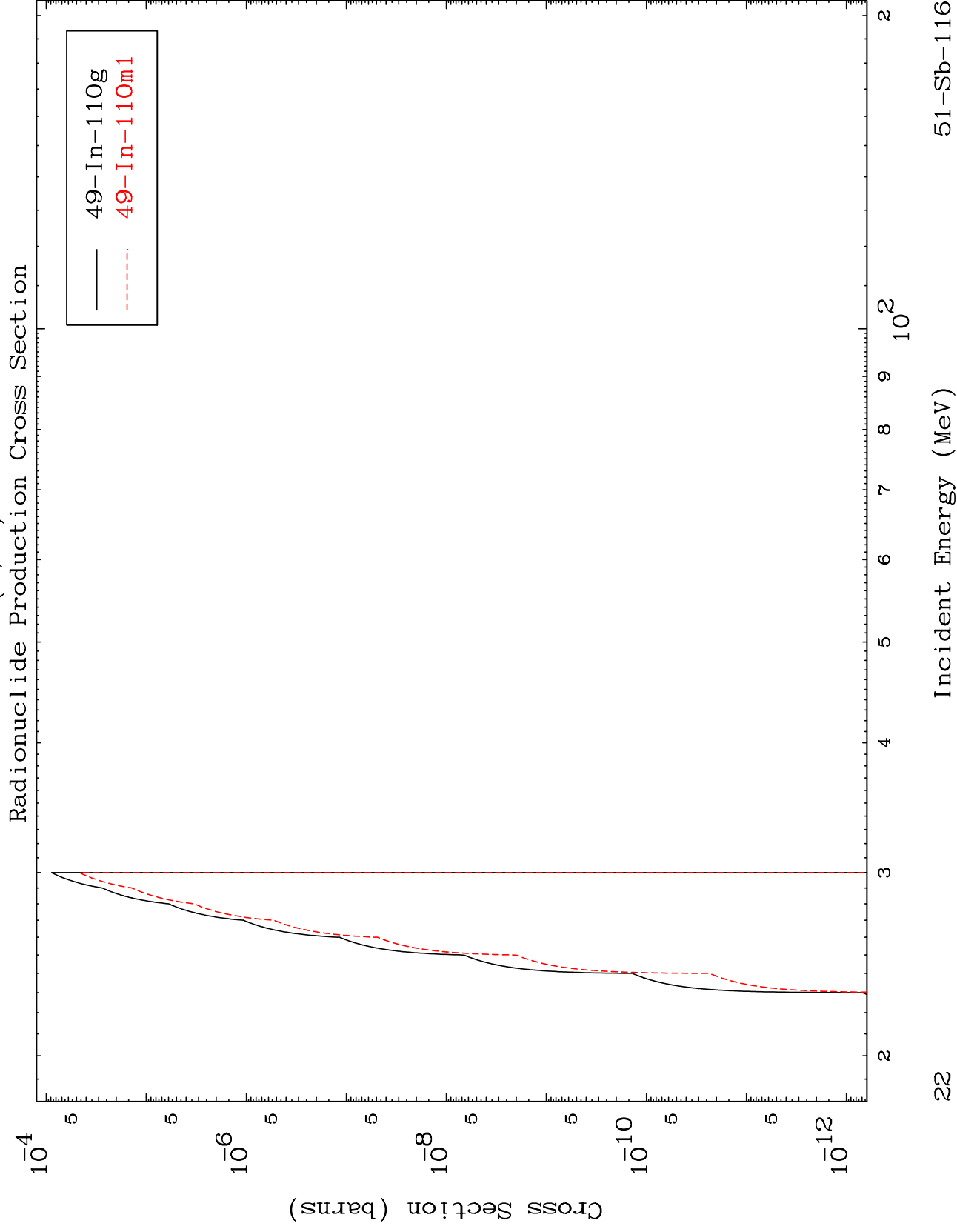
Incident Energy (MeV)

51-Sb-116

MAT 5111

(n,3n) α

51-Sb-116



22

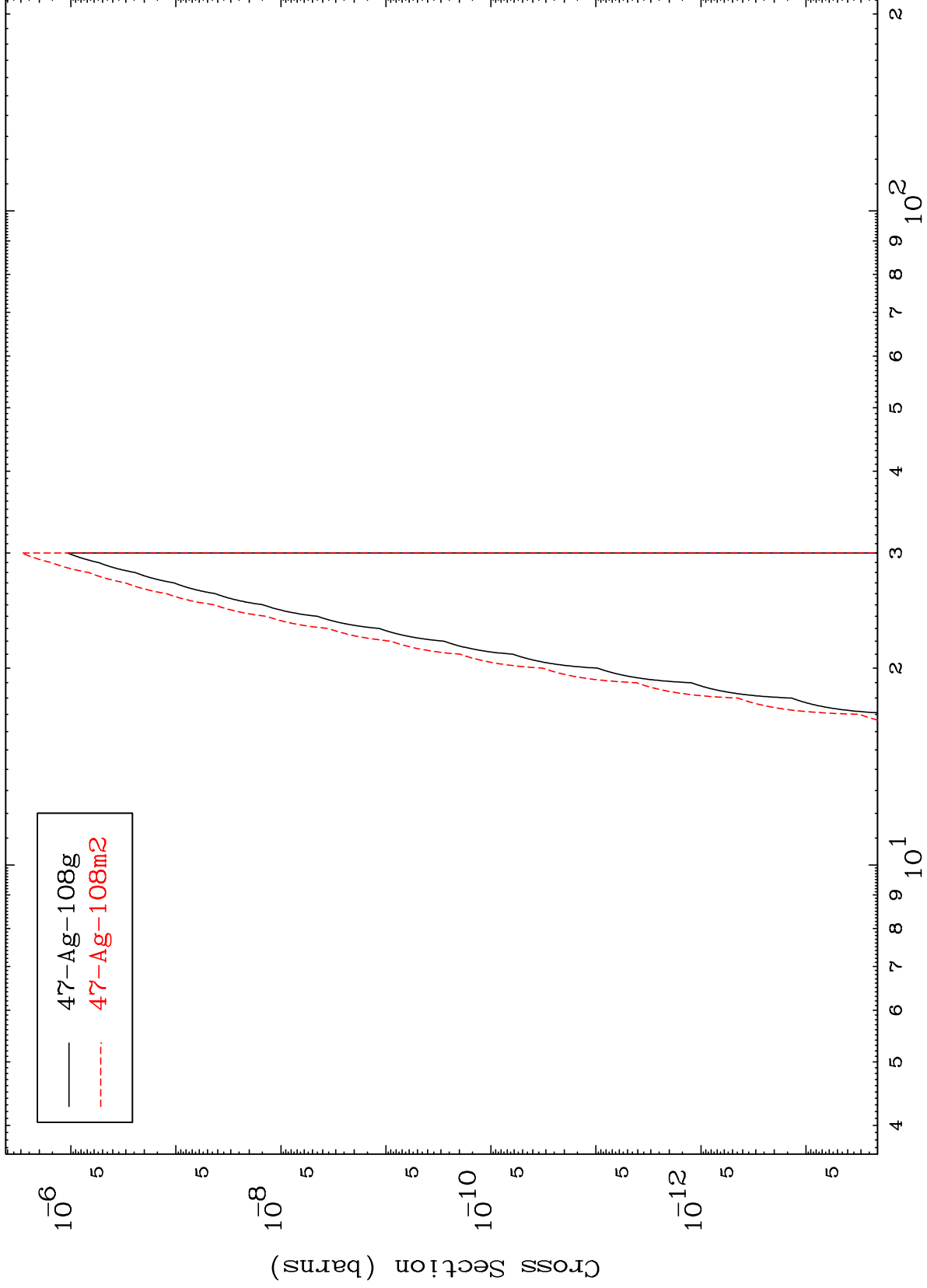
51-Sb-116

MAT 5111

(n,n') 2α

51-Sb-116

Radionuclide Production Cross Section



23

Incident Energy (MeV)

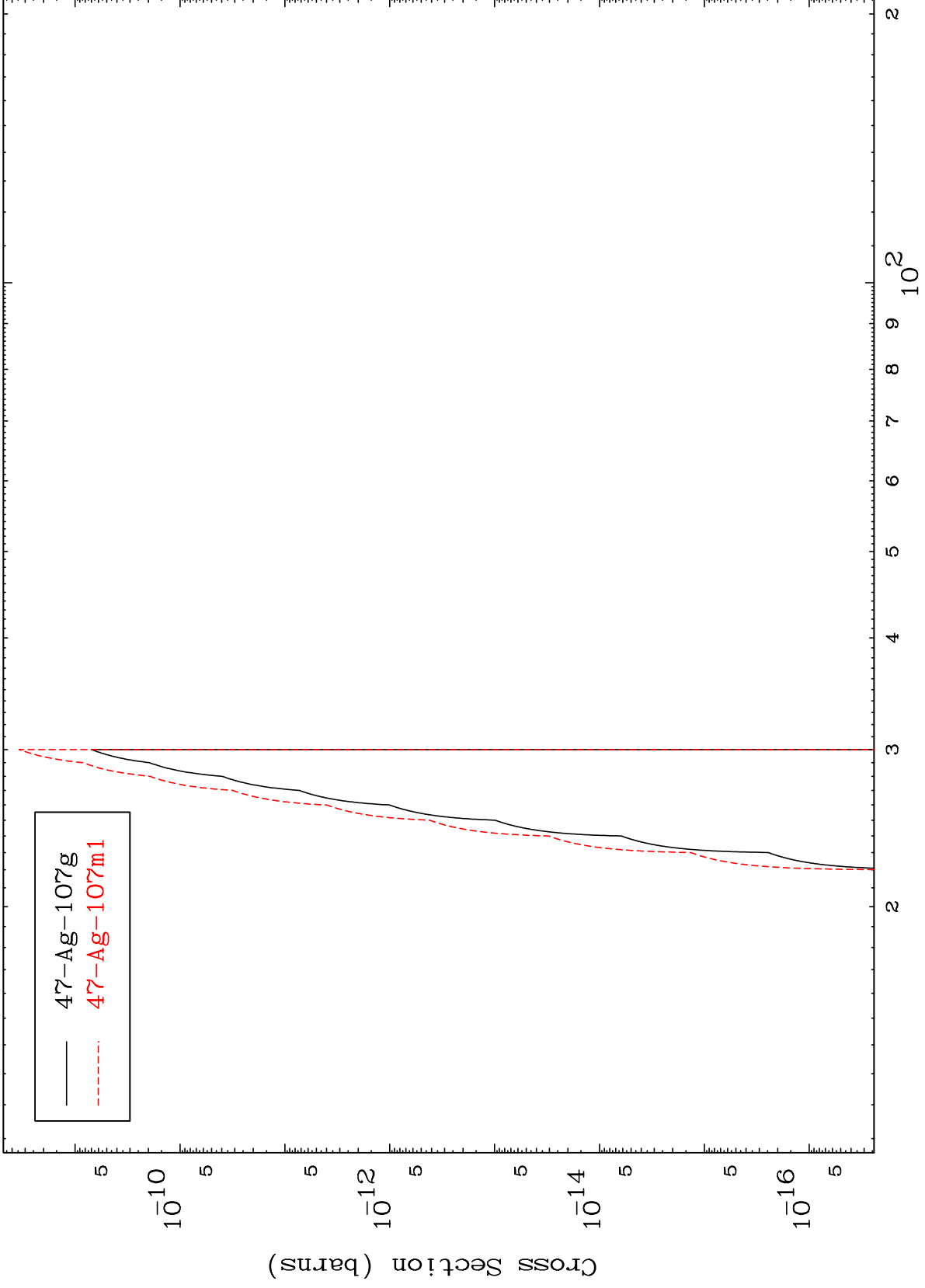
51-Sb-116

MAT 5111

(n,2n) 2 α

51-Sb-116

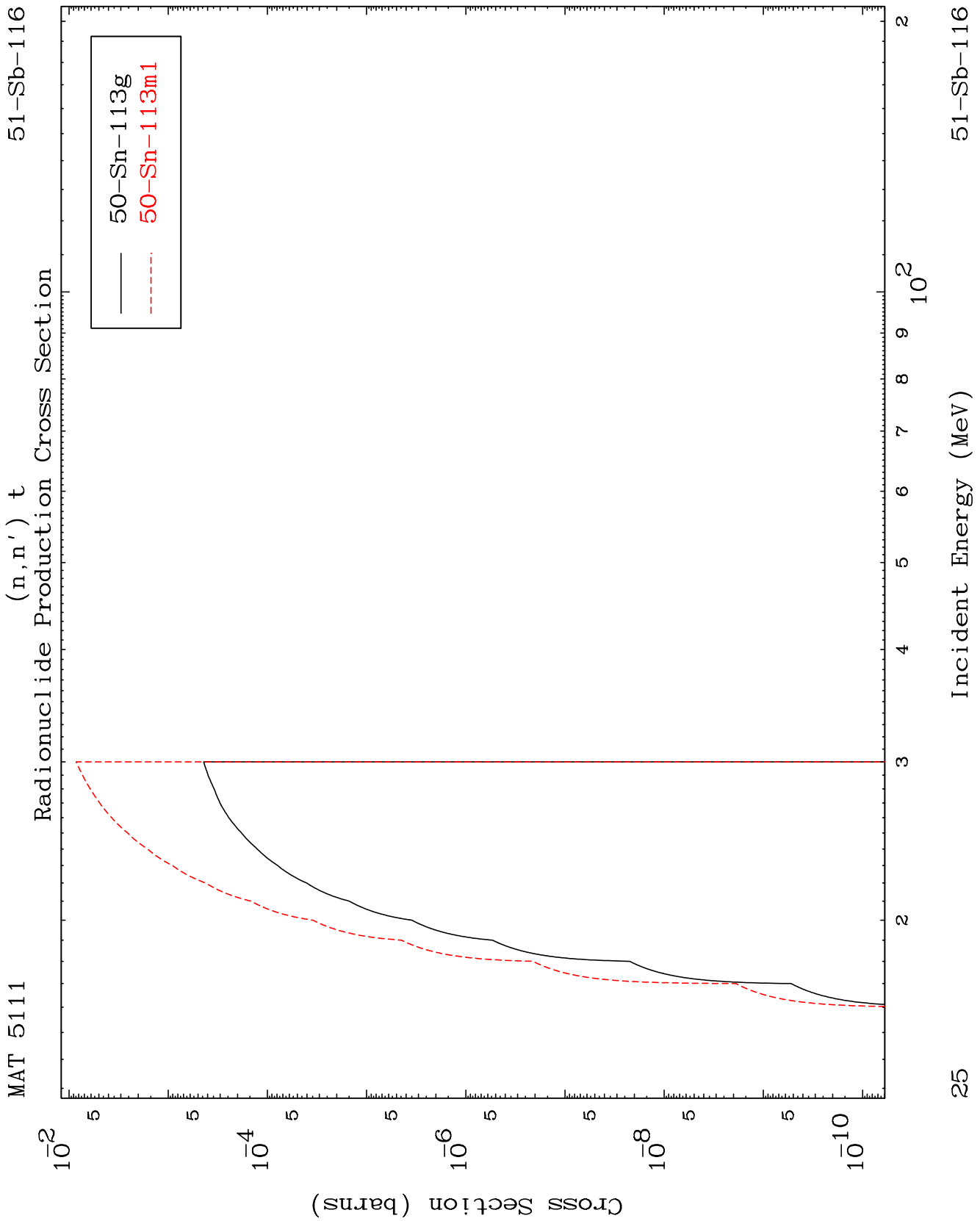
Radionuclide Production Cross Section



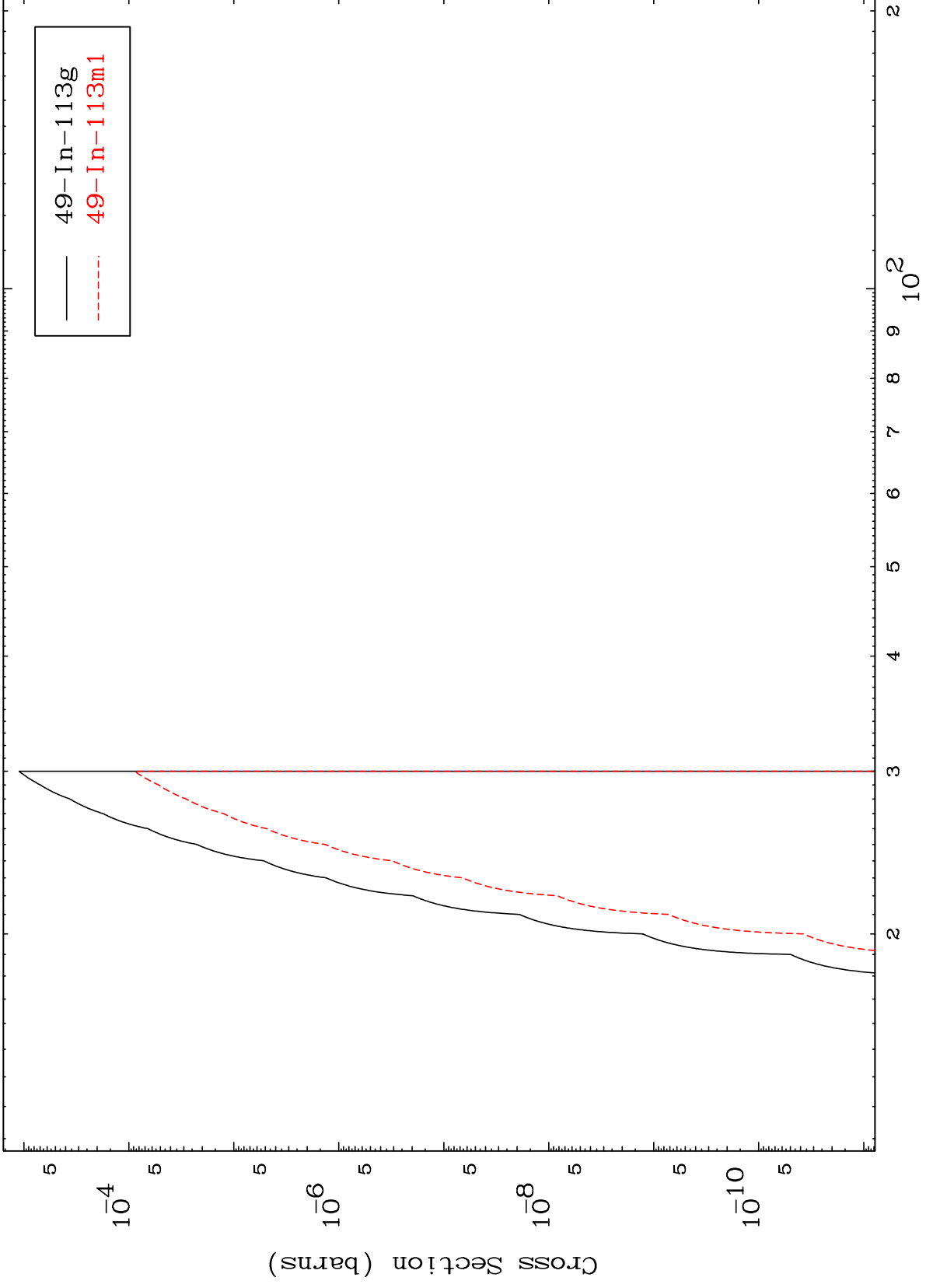
24

Incident Energy (MeV)

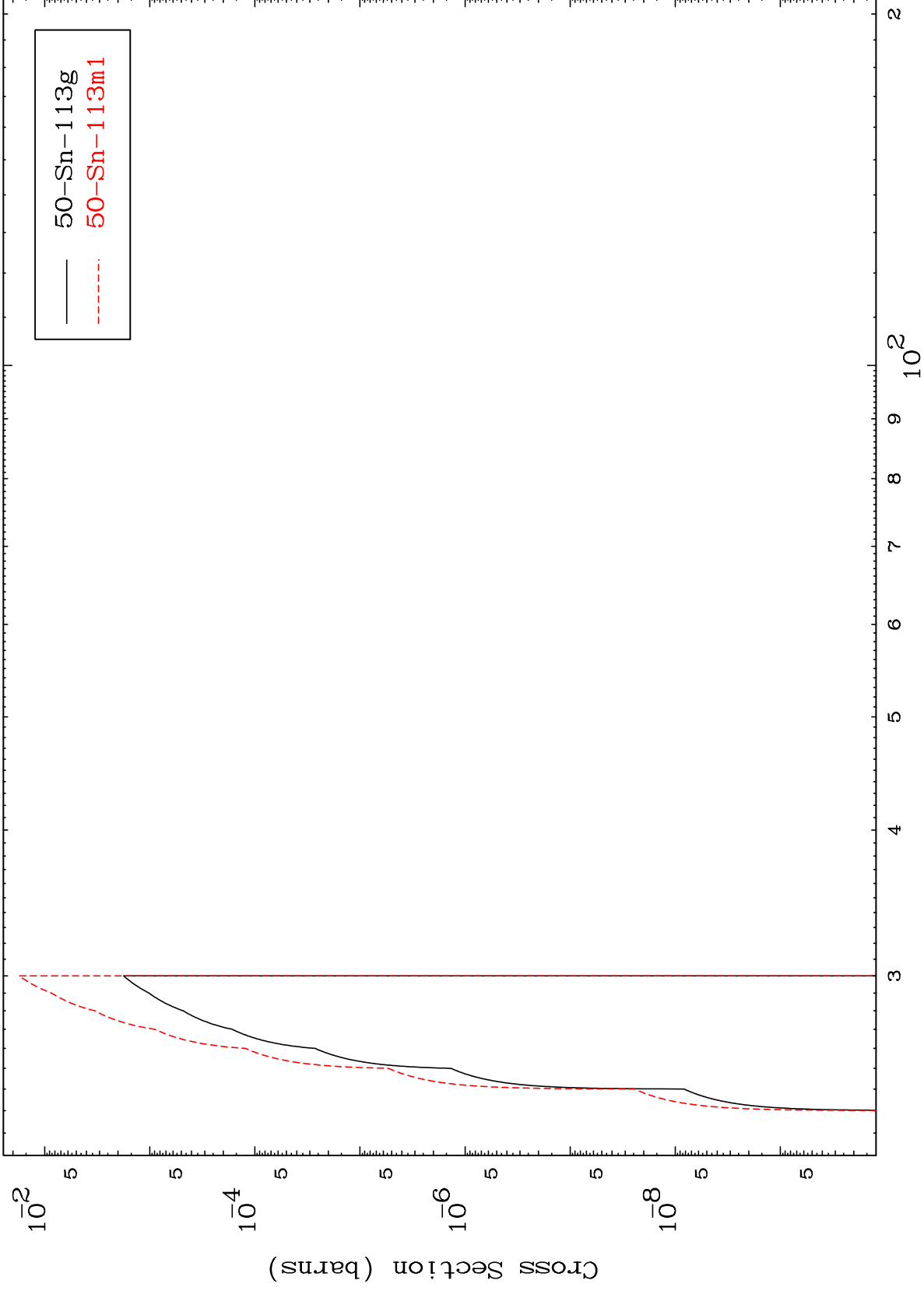
51-Sb-116



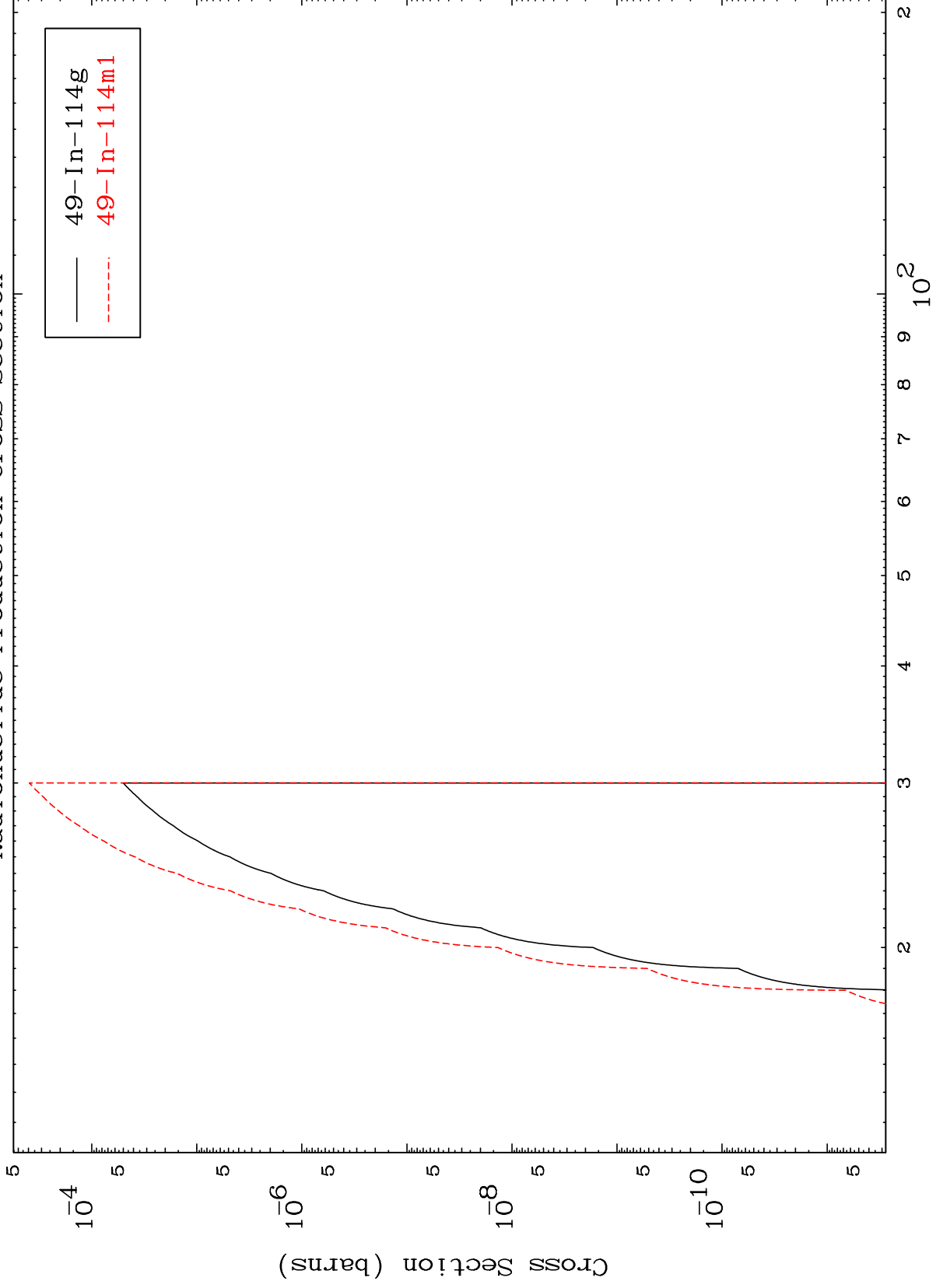
Radionuclide Production Cross Section



Radionuclide Production Cross Section



Radionuclide Production Cross Section

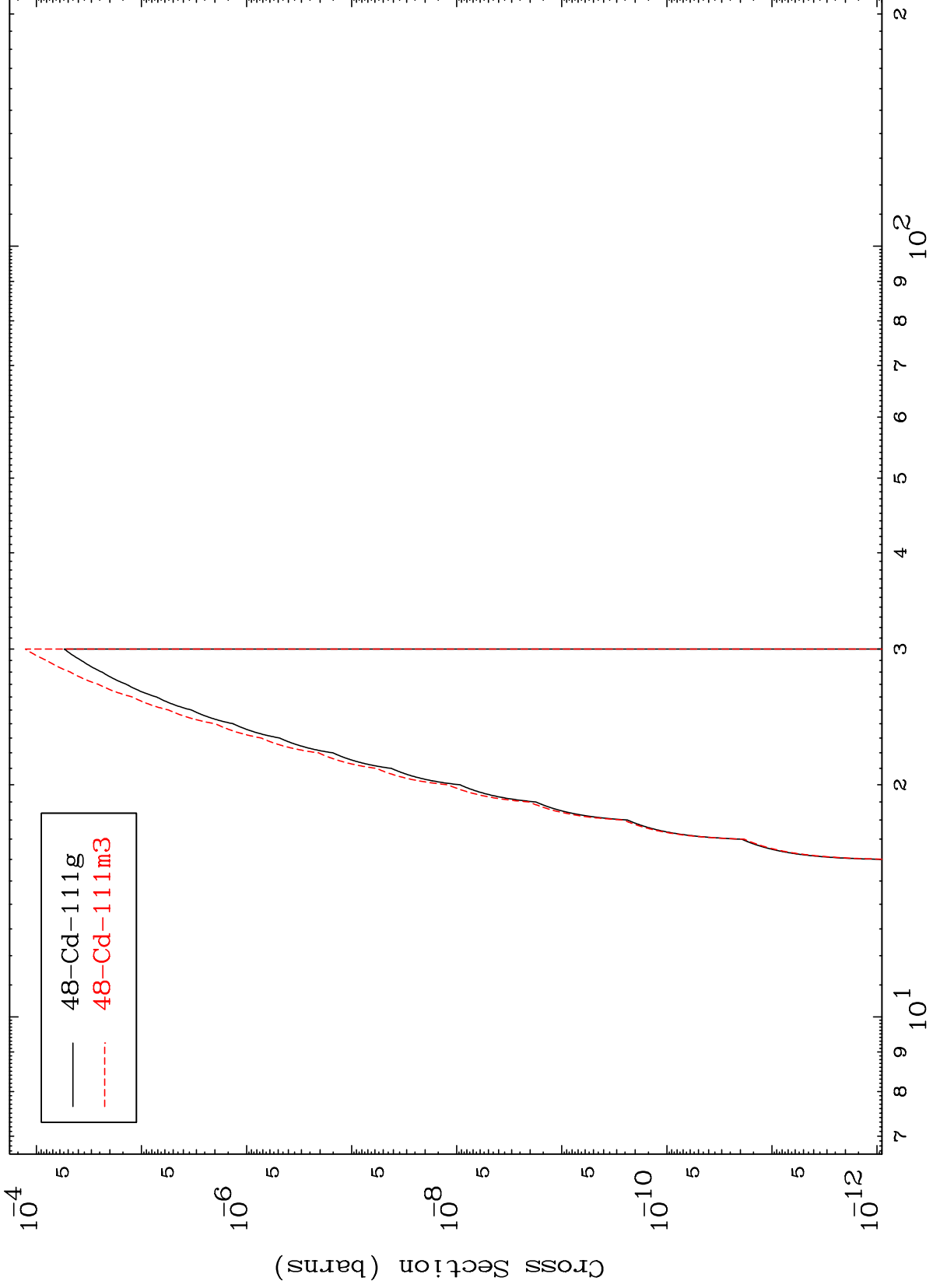


MAT 5111

(n,n') p α

51-Sb-116

Radionuclide Production Cross Section



29

Incident Energy (MeV)

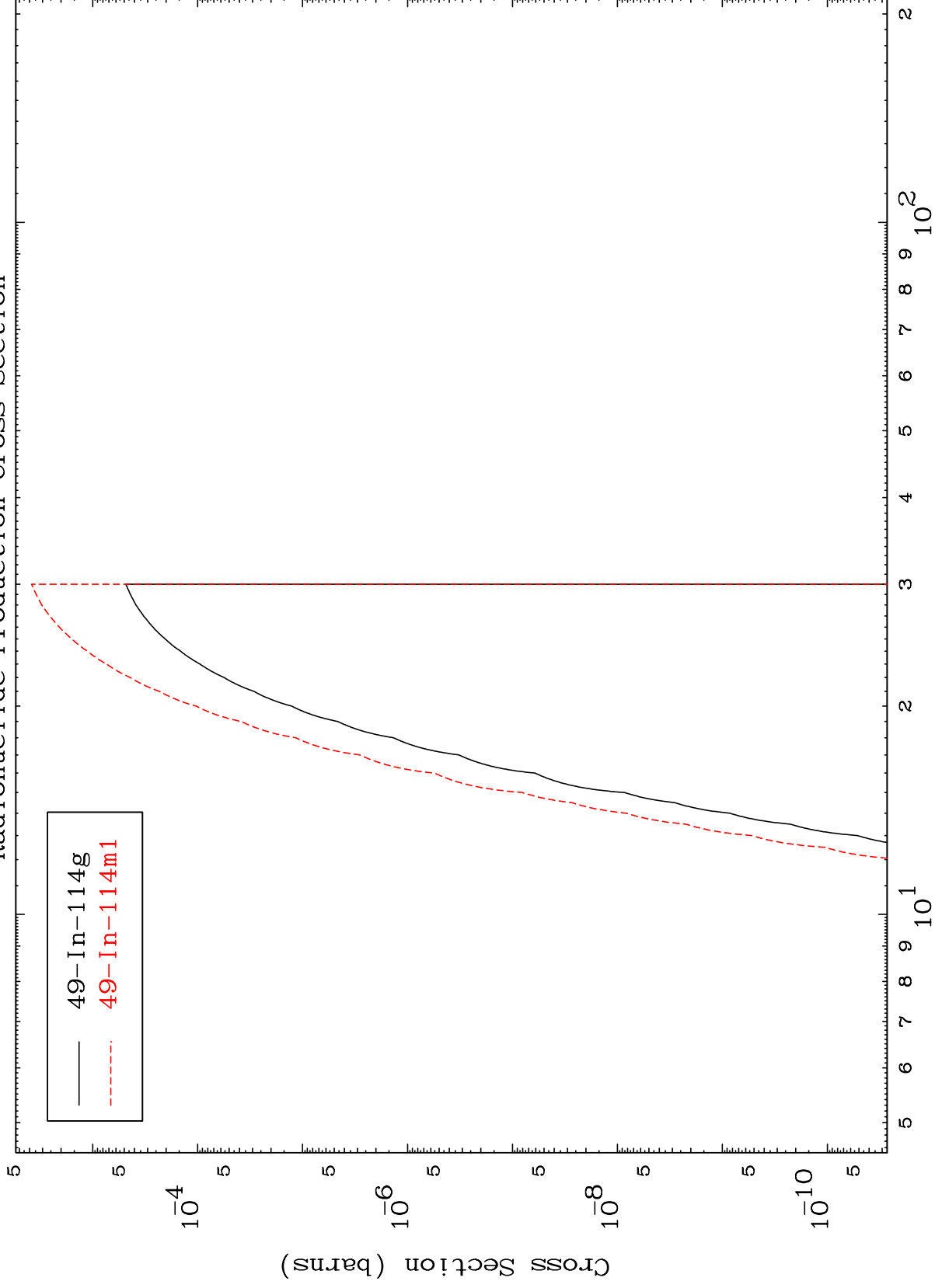
51-Sb-116

MAT 5111

(n,He-3)

51-Sb-116

Radionuclide Production Cross Section



30

Incident Energy (MeV)

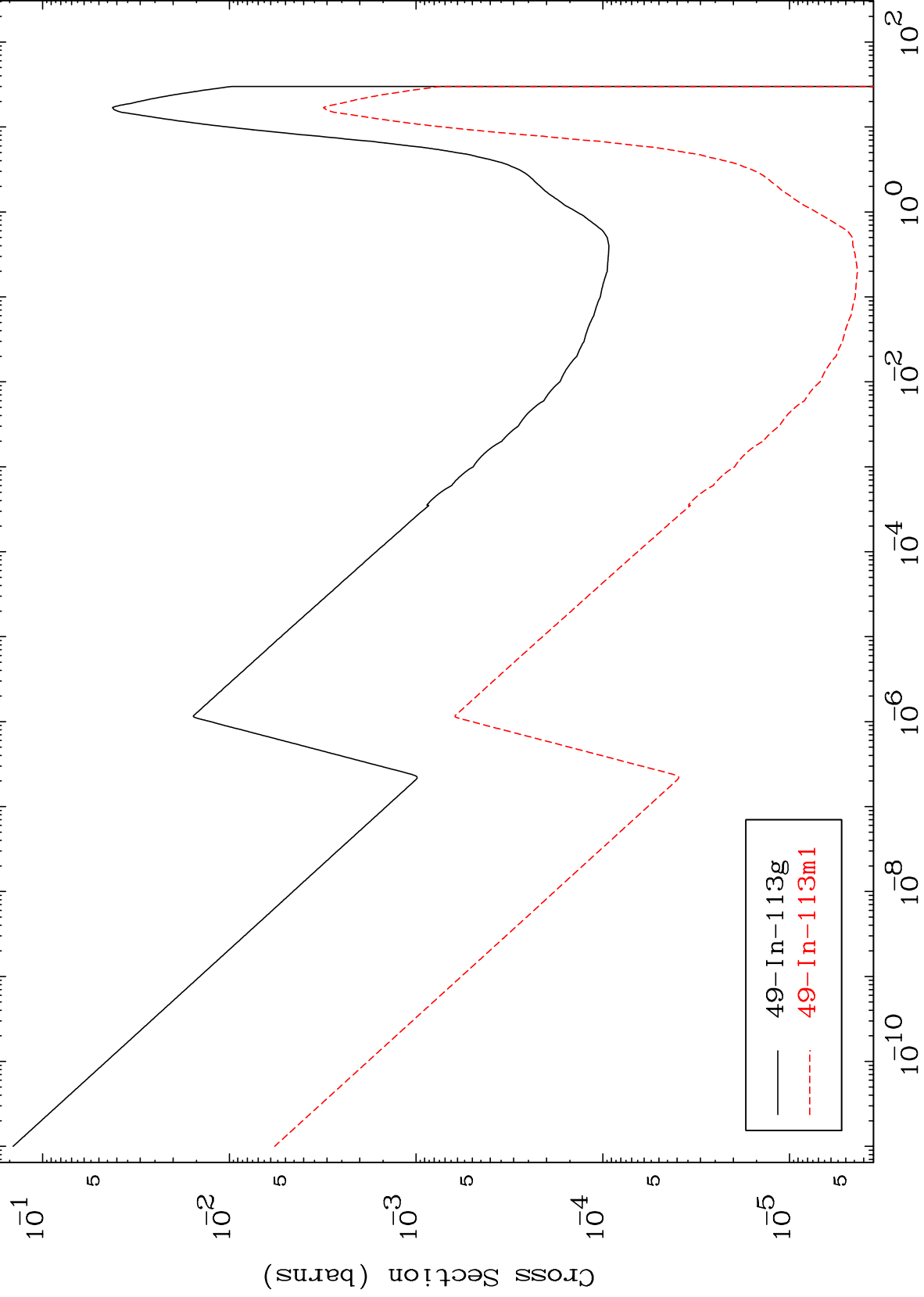
51-Sb-116

MAT 5111

(n,α)

51-Sb-116

Radionuclide Production Cross Section



31

Incident Energy (MeV)

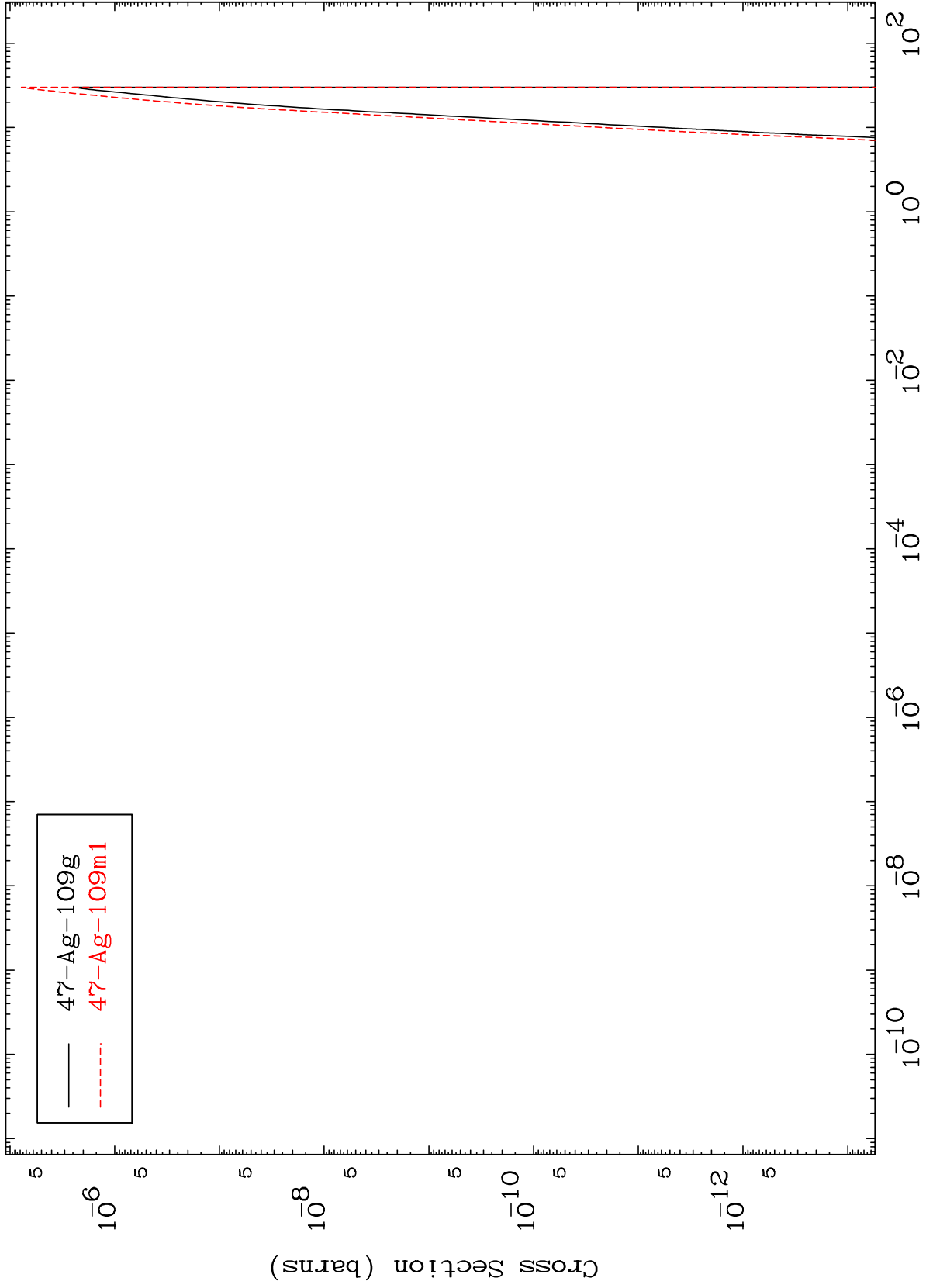
51-Sb-116

MAT 5111

(n,2α)

51-Sb-116

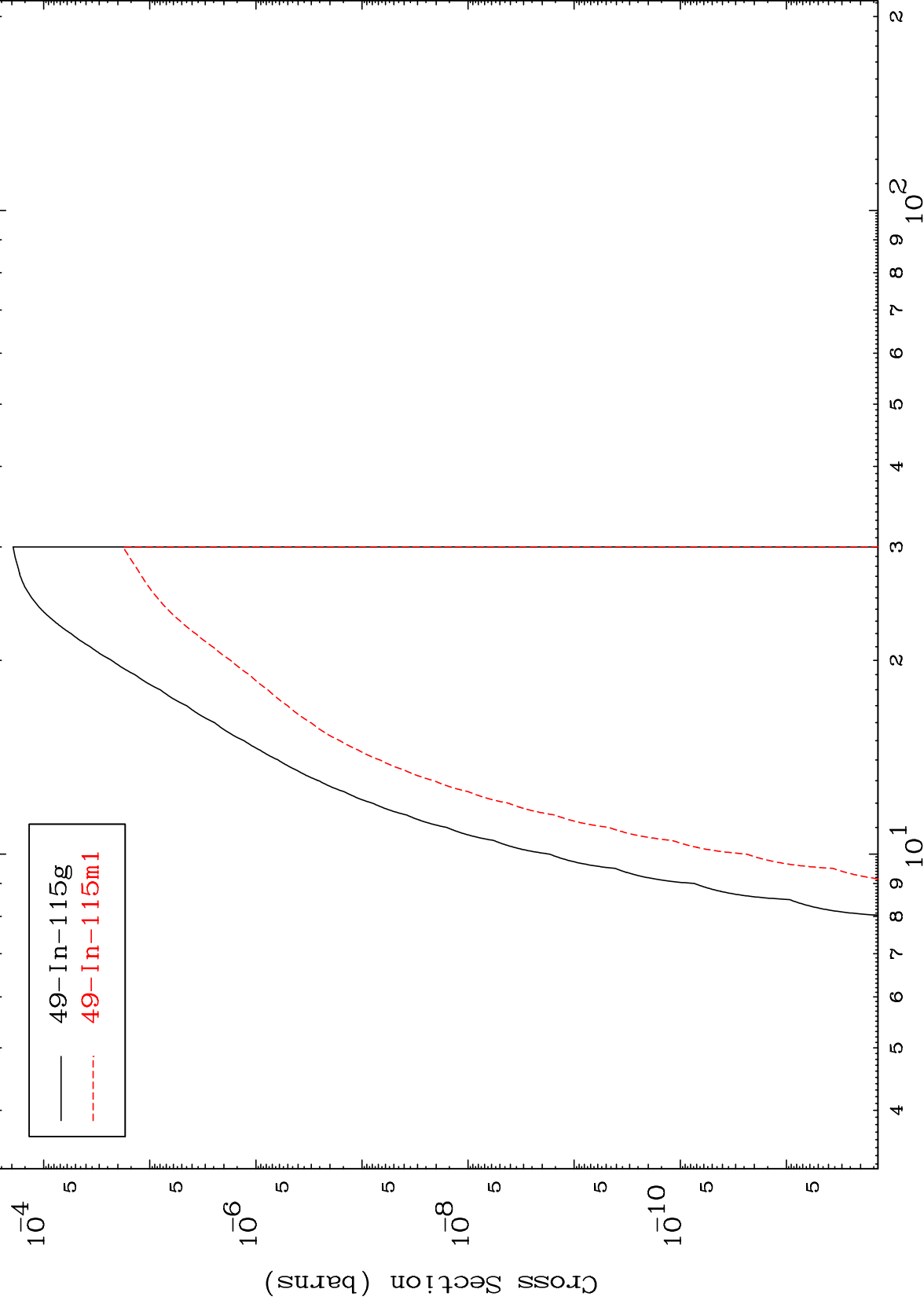
Radionuclide Production Cross Section



MAT 5111

51-Sb-116

(n,2p)
Radionuclide Production Cross Section



— 49-In-115g
- - - 49-In-115m1

51-Sb-116

Incident Energy (MeV)

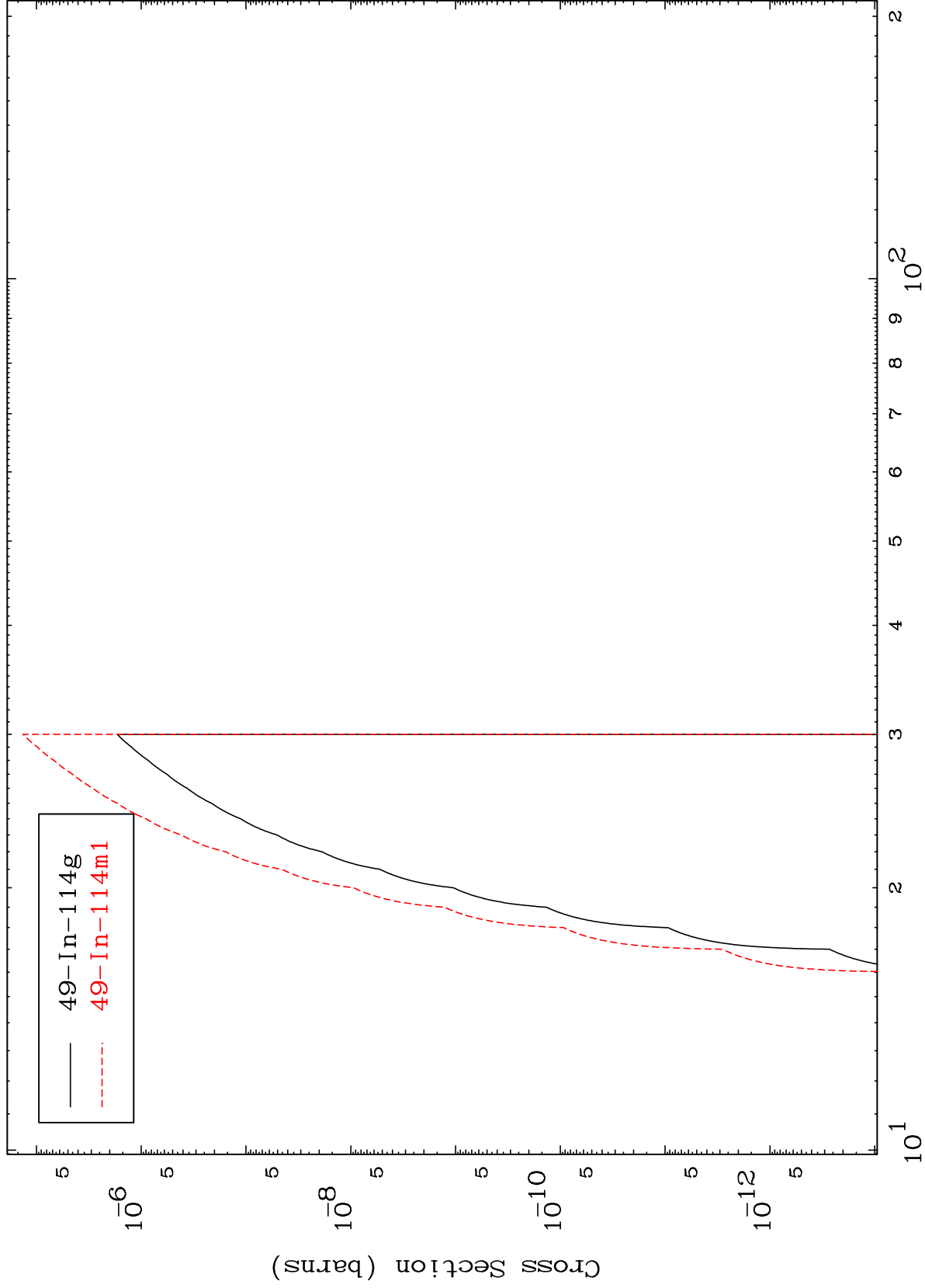
33

MAT 5111

(n,p) d

51-Sb-116

Radionuclide Production Cross Section

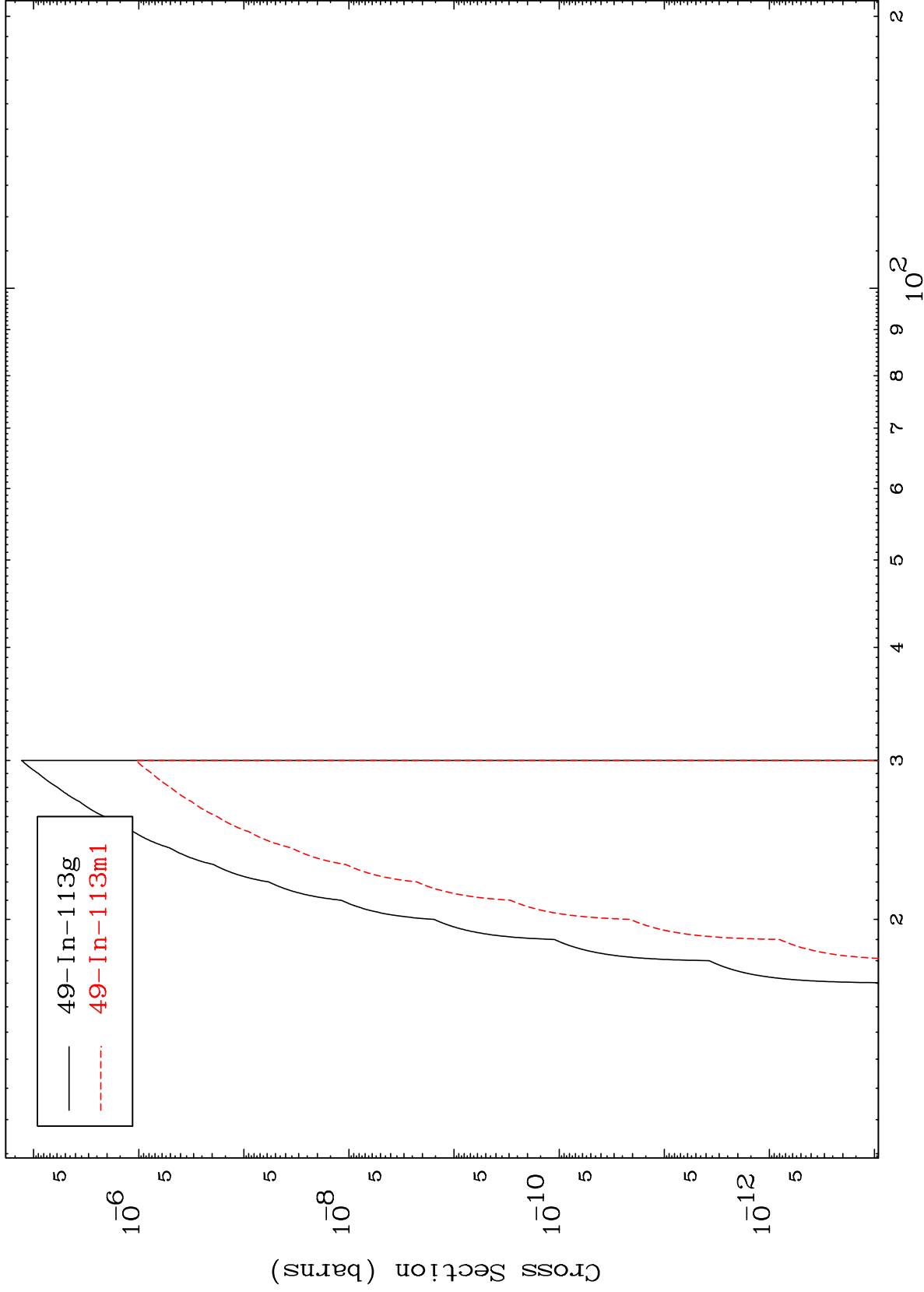


51-Sb-116

Incident Energy (MeV)

34

Radionuclide Production Cross Section

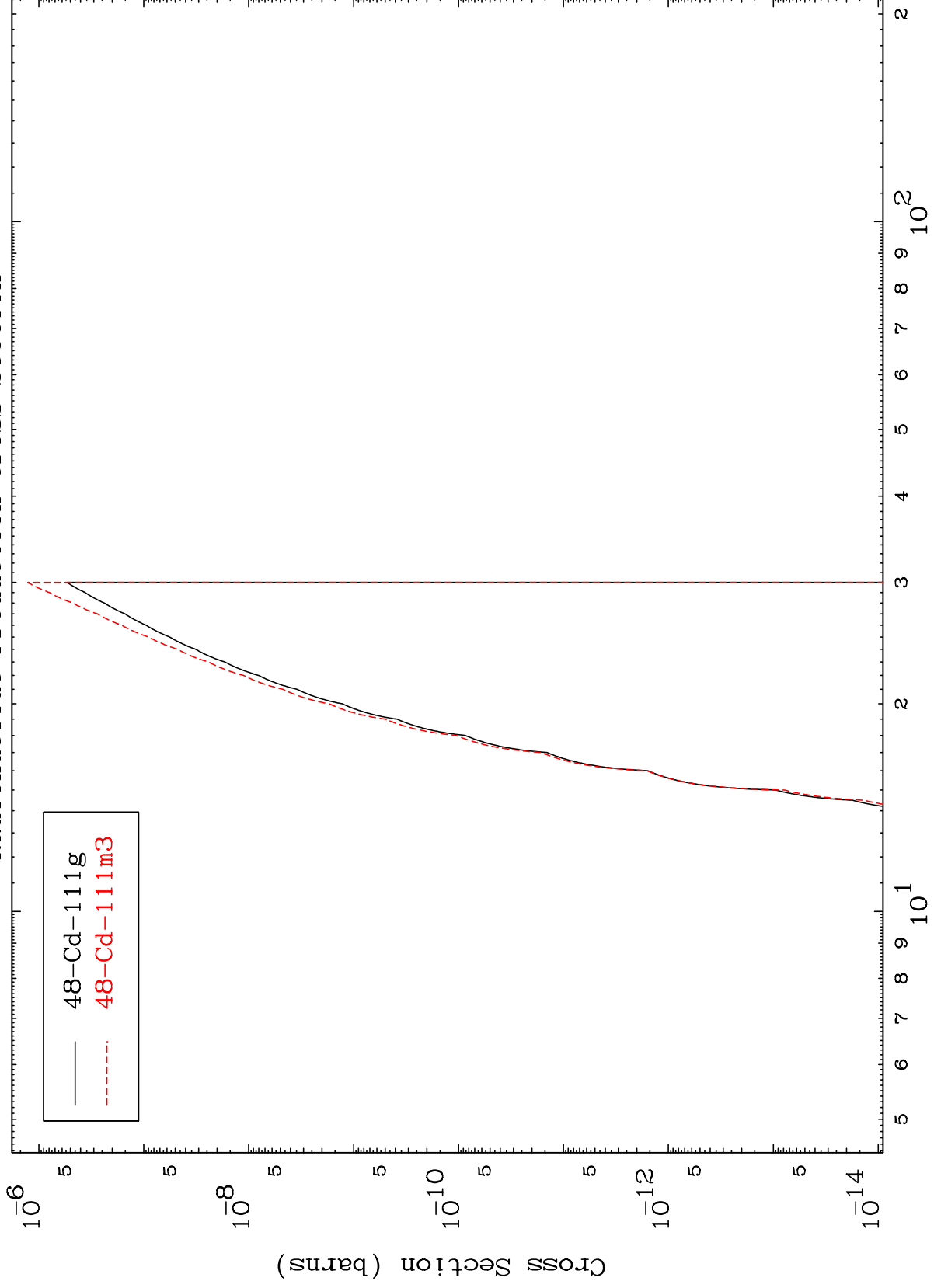


MAT 5111

(n,d) α

51-Sb-116

Radionuclide Production Cross Section



48-Cd-111g
48-Cd-111m3