

Program EVALPLOT  
(Version 2021-1)

by

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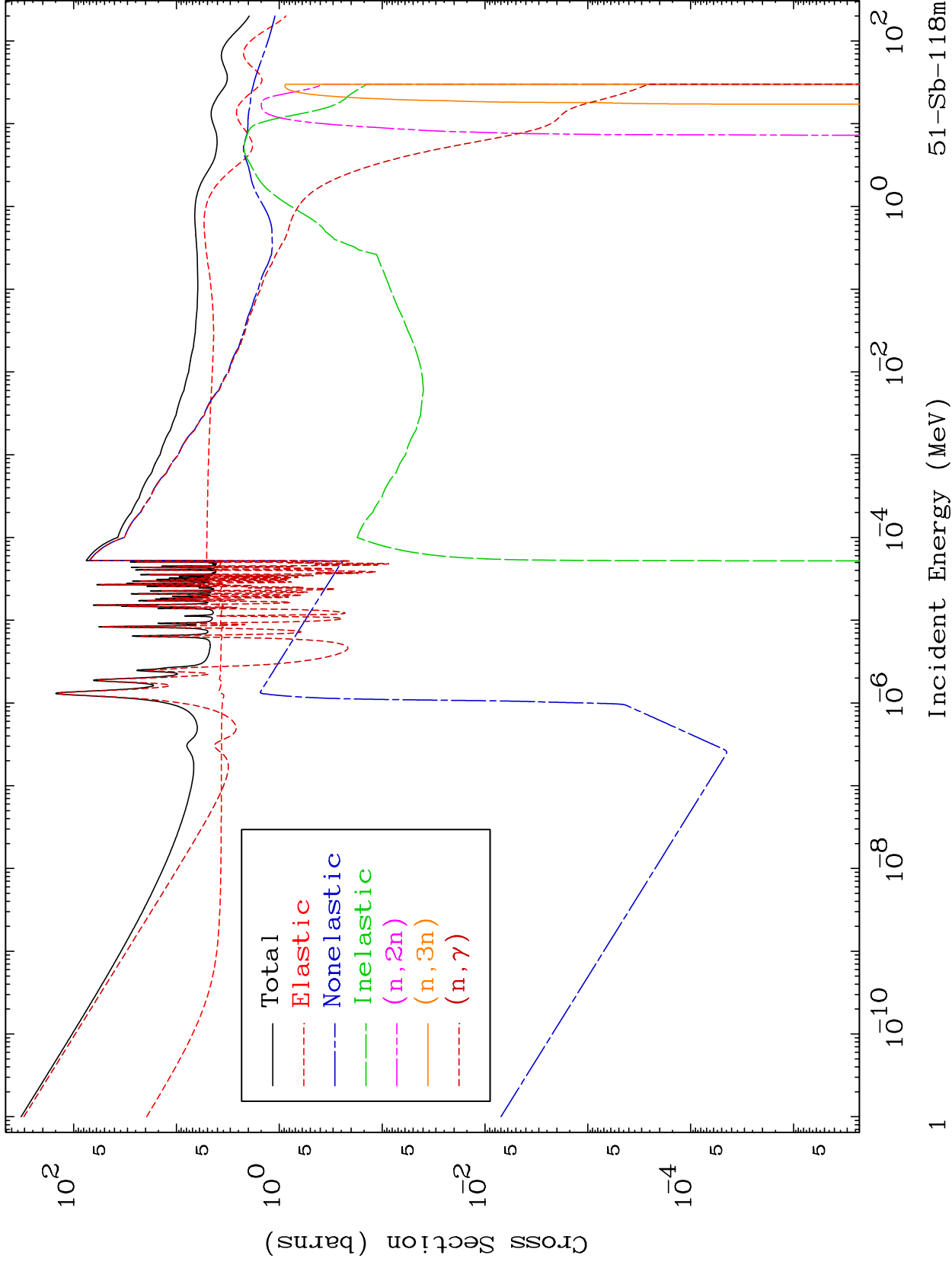
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5117

Neutron Major  
293 Kelvin Cross Sections

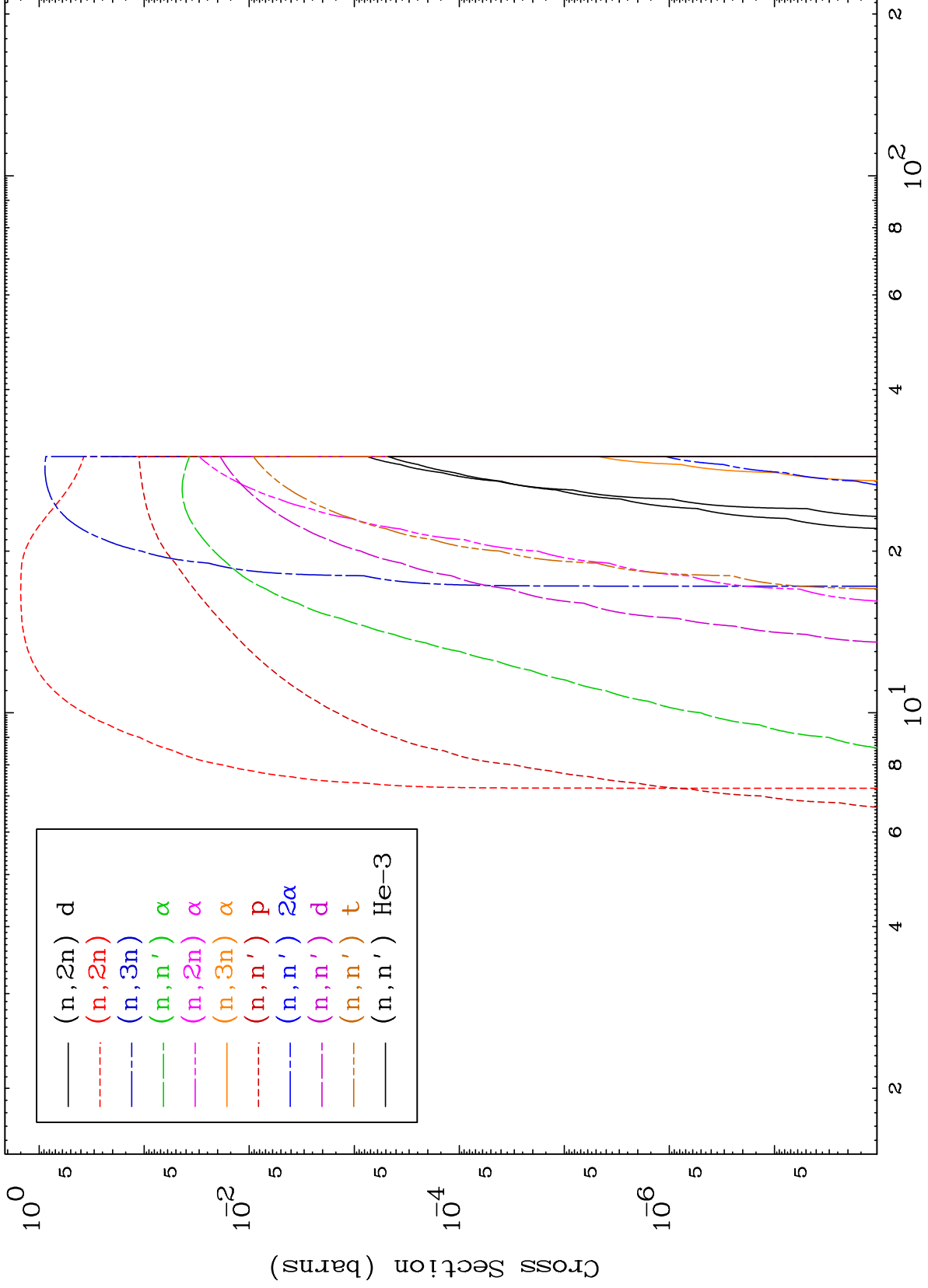
51-Sb-118m



MAT 5117

Neutron Absorption  
293 Kelvin Cross Sections

51-Sb-118m



2

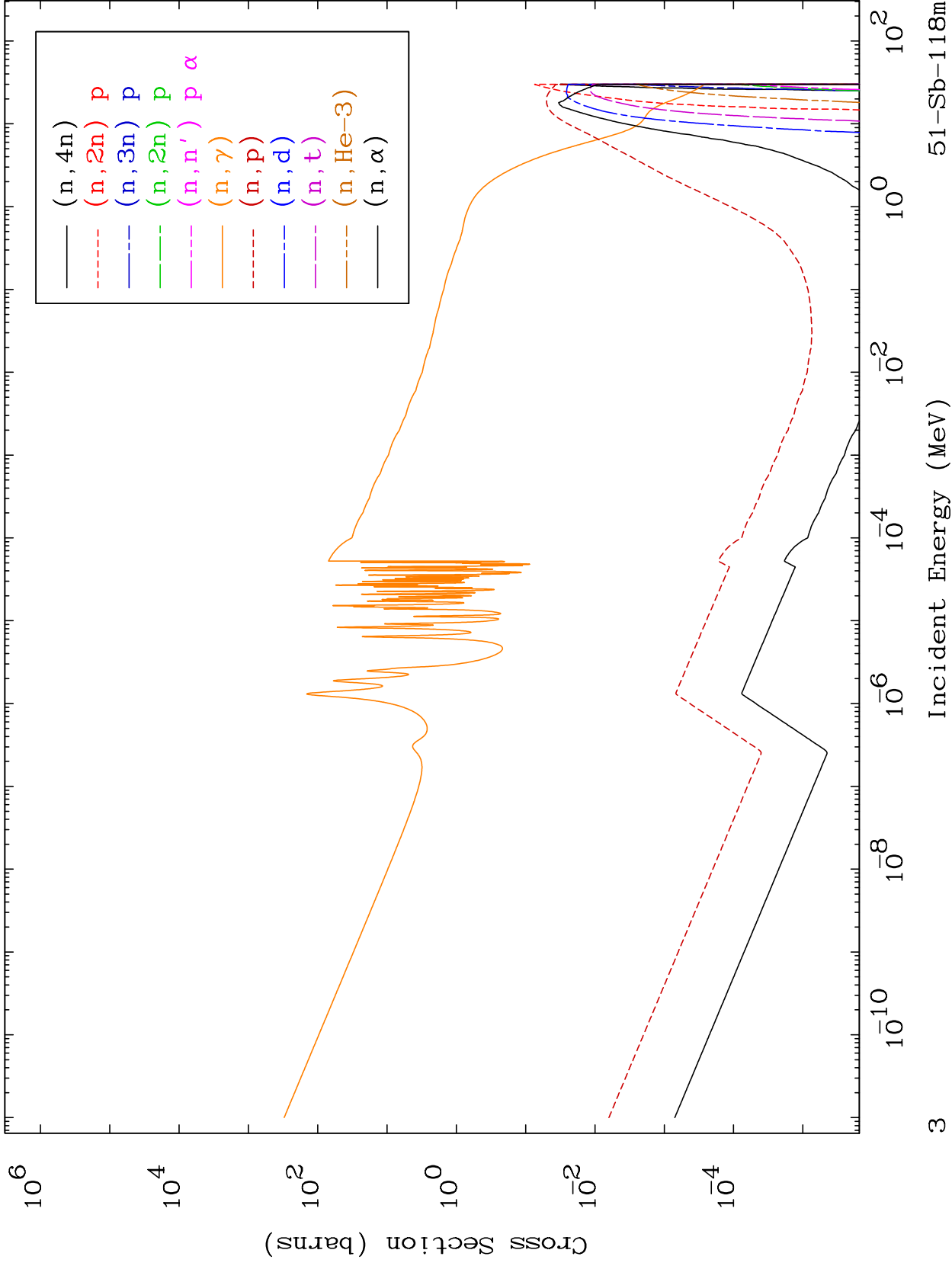
Incident Energy (MeV)

51-Sb-118m

MAT 5117

Neutron Absorption  
293 Kelvin Cross Sections

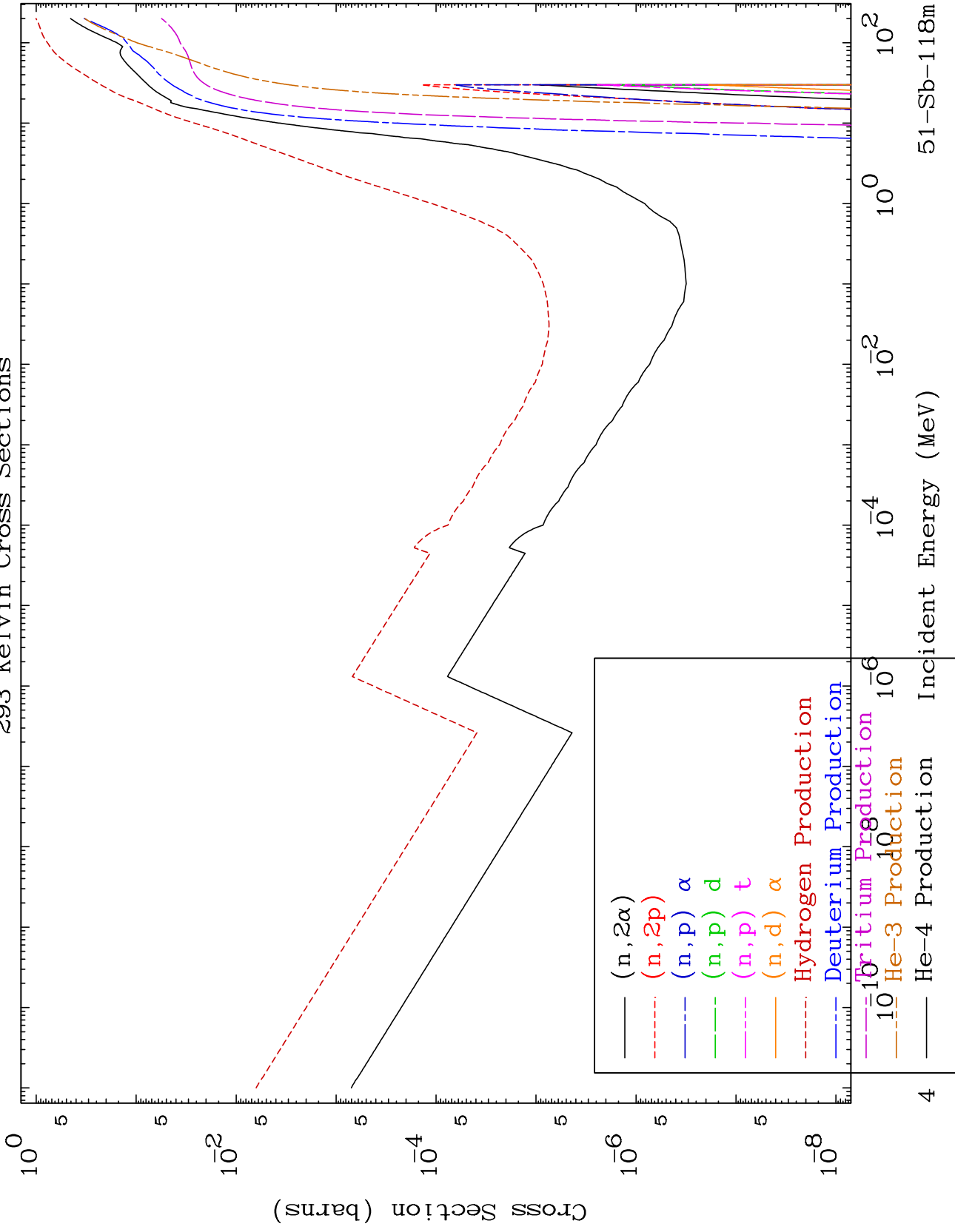
51-Sb-118m



MAT 5117

Neutron Absorption  
293 Kelvin Cross Sections

51-Sb-118m



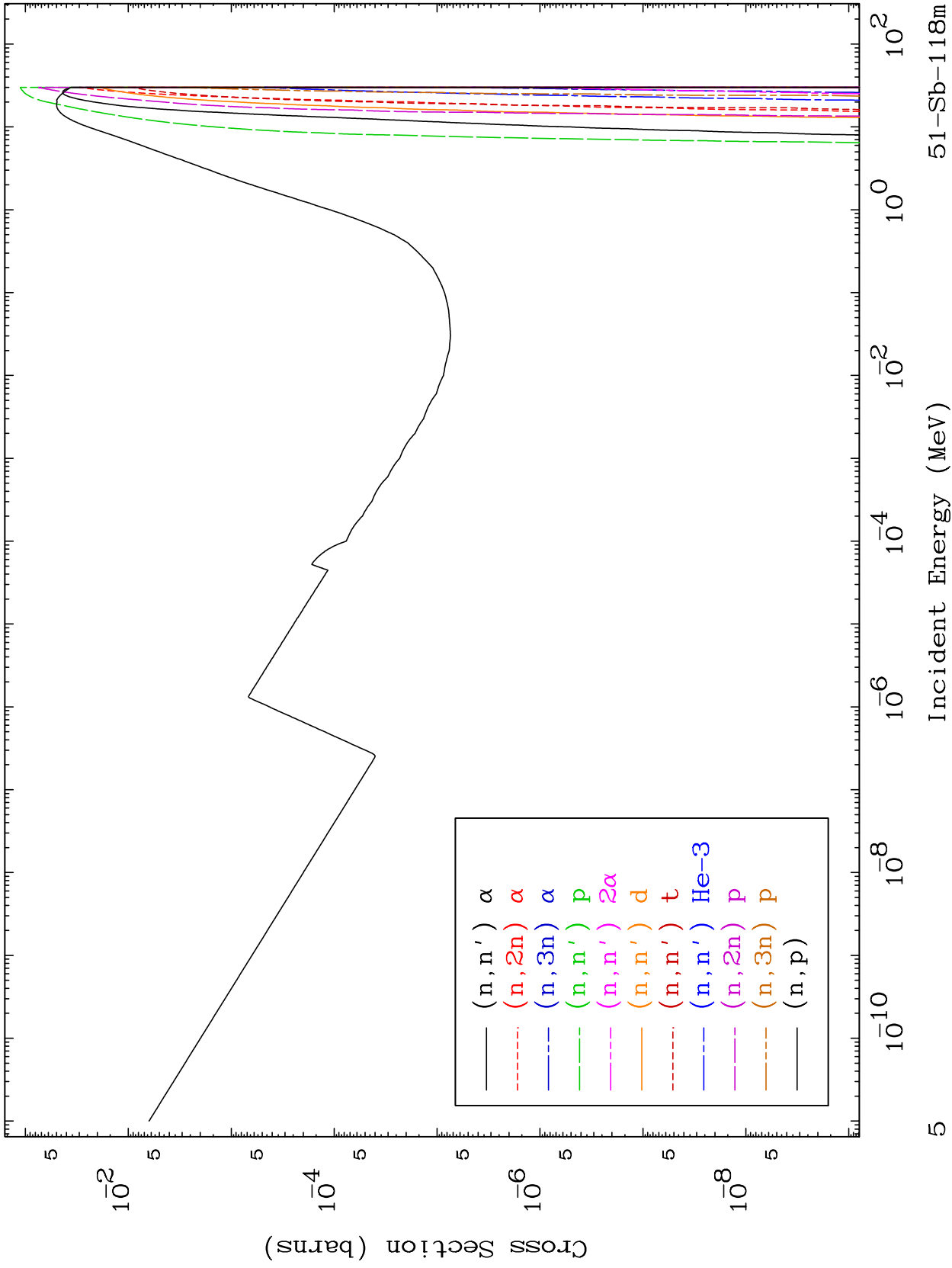
51-Sb-118m

Incident Energy (MeV)

MAT 5117

Charged Particle  
293 Kelvin Cross Sections

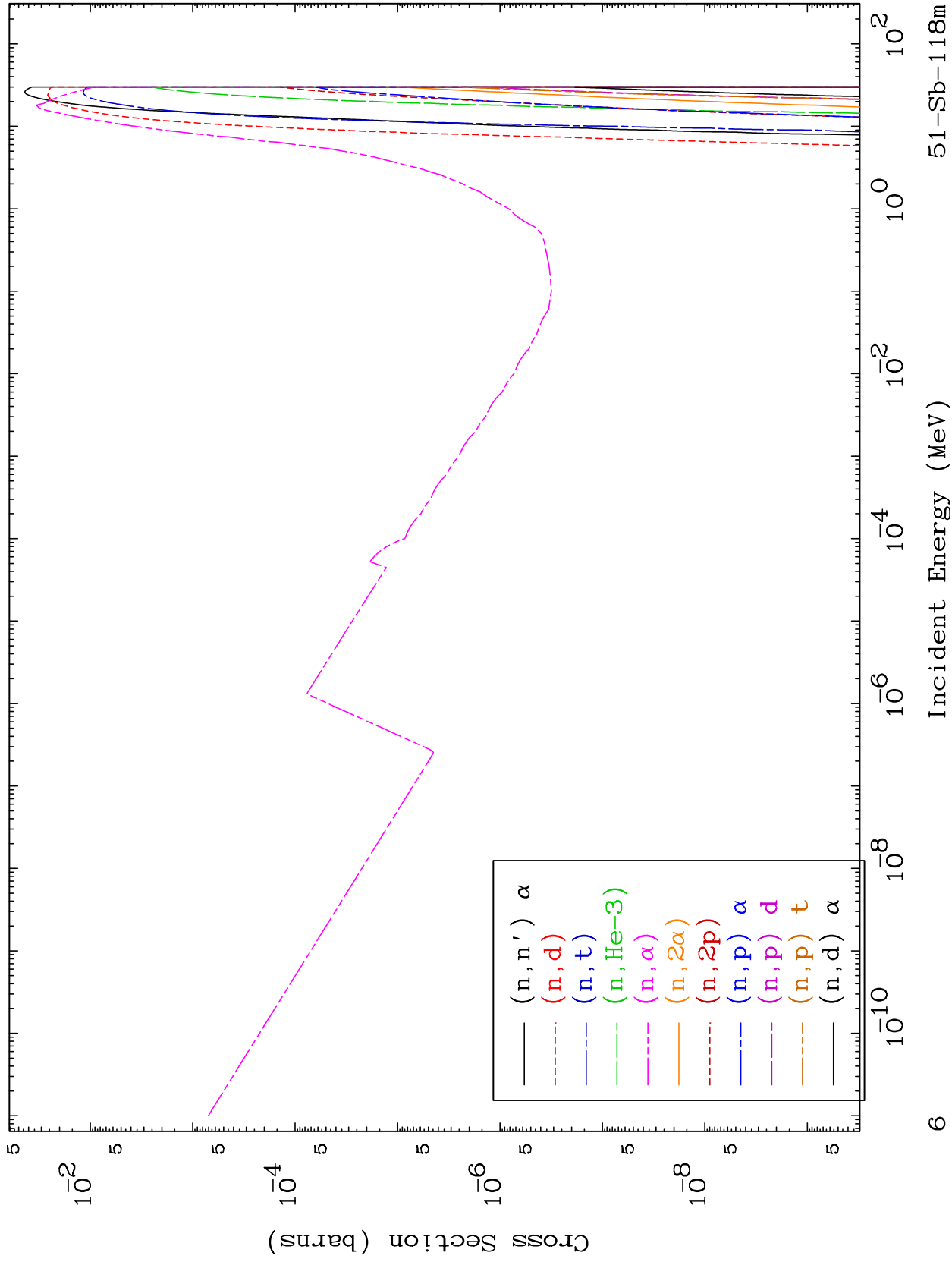
51-Sb-118m



MAT 5117

Charged Particle  
293 Kelvin Cross Sections

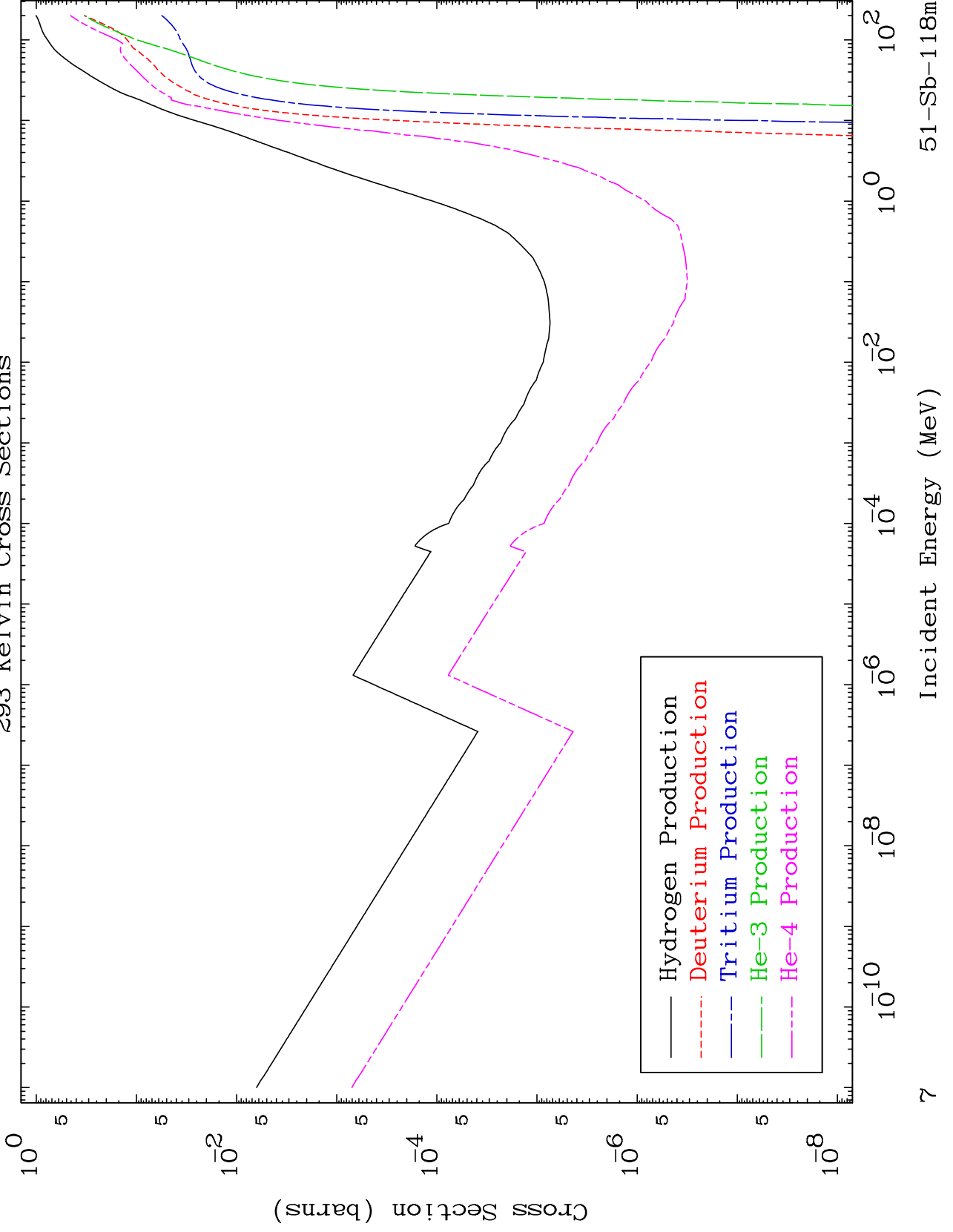
51-Sb-118m



MAT 5117

Particle Production  
293 Kelvin Cross Sections

51-Sb-118m

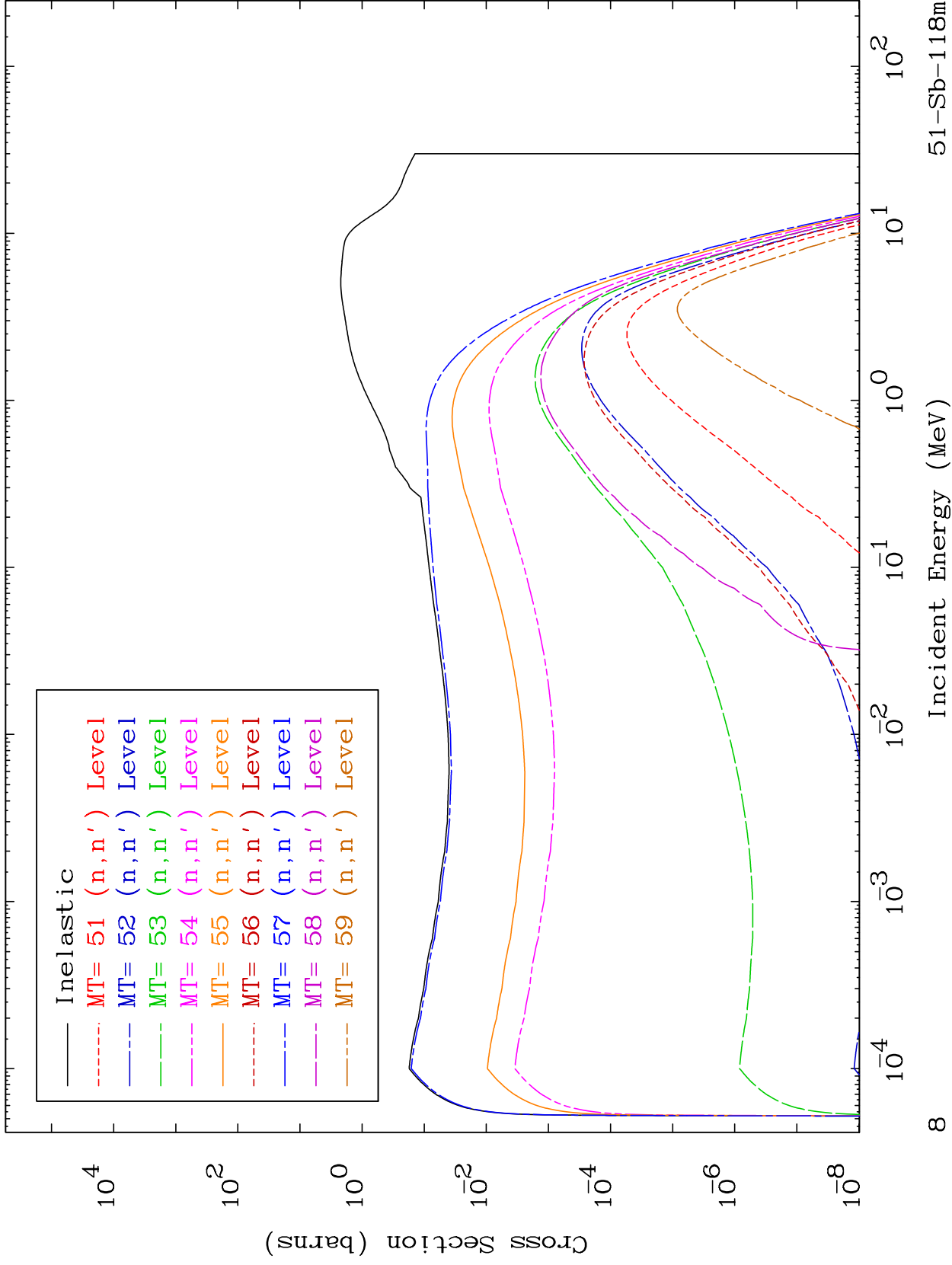




MAT 5117

(n,n') Levels  
293 Kelvin Cross Sections

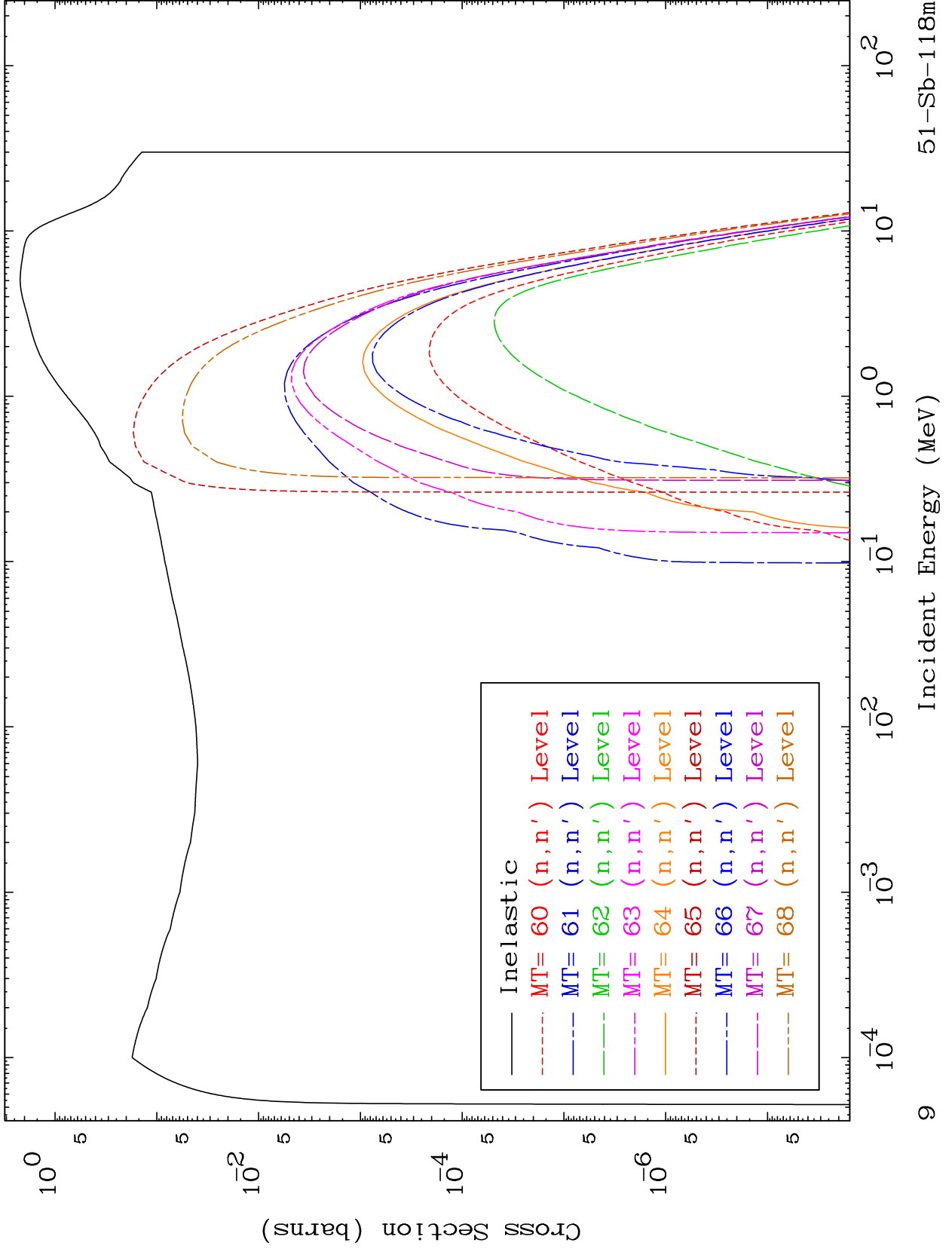
51-Sb-118m



MAT 5117

(n,n') Levels  
293 Kelvin Cross Sections

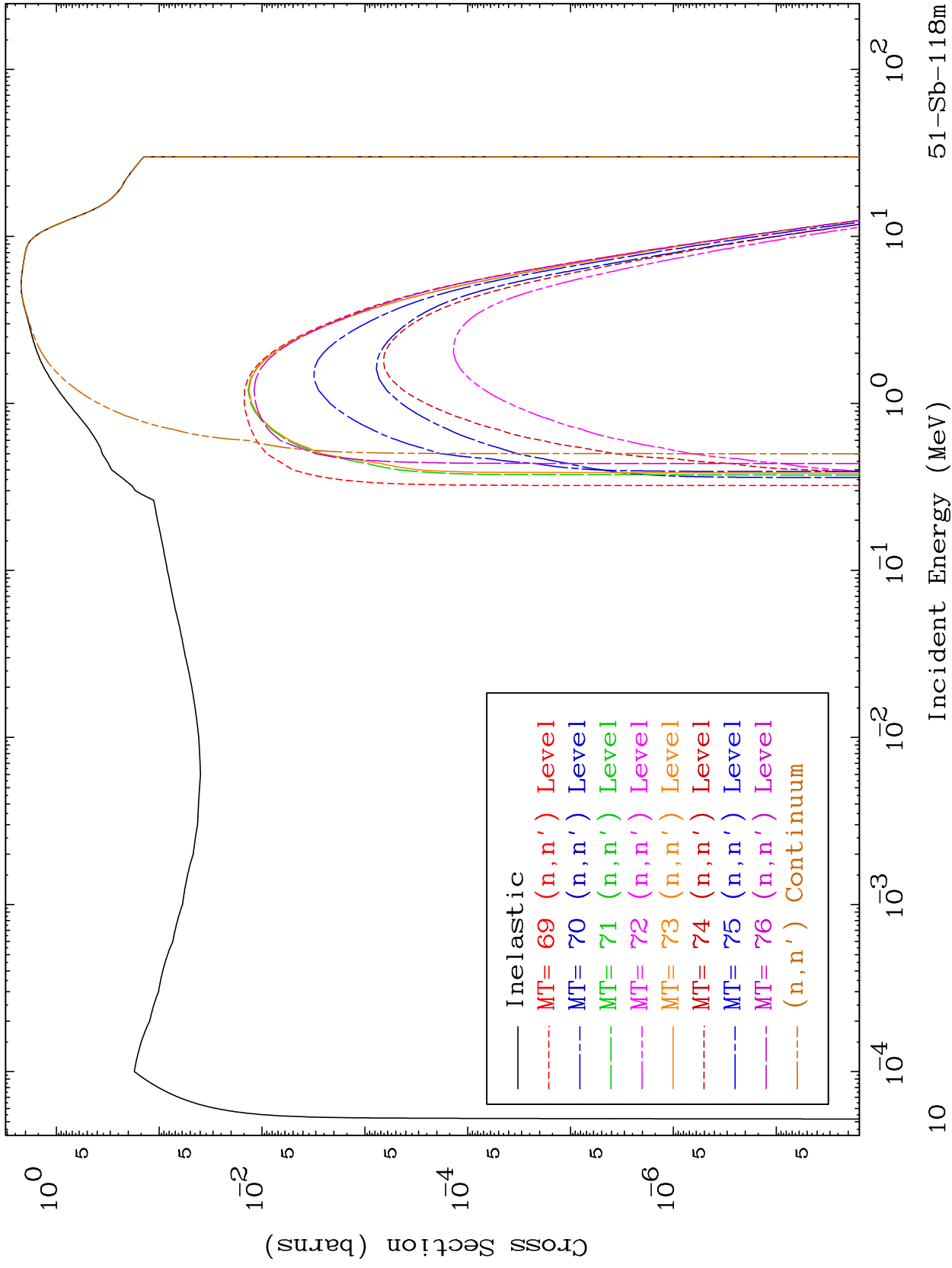
51-Sb-118m



MAT 5117

293 (n,n') Levels

51-Sb-118m



10

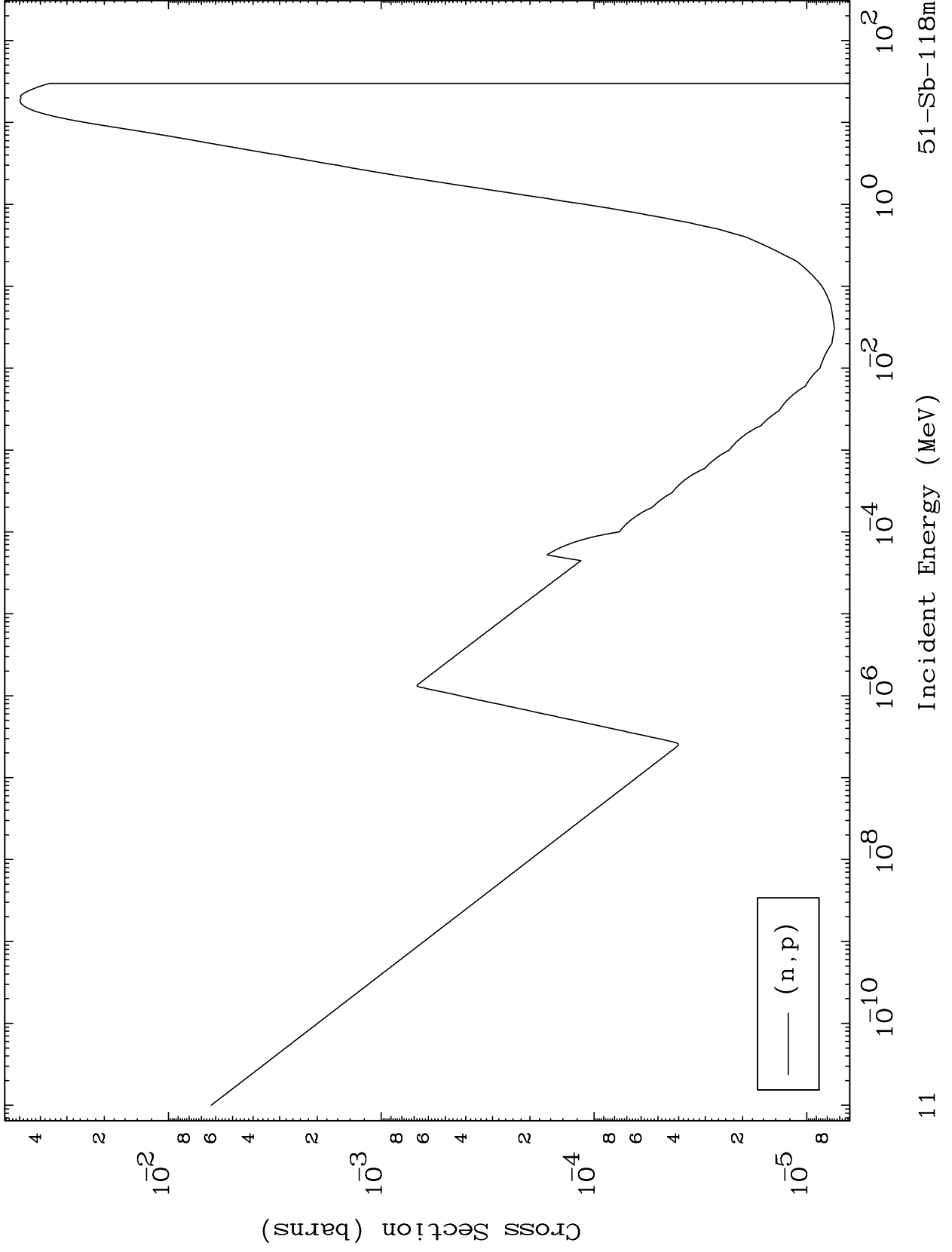
Incident Energy (MeV)

51-Sb-118m

MAT 5117

(n,p) Levels  
293 Kelvin Cross Sections

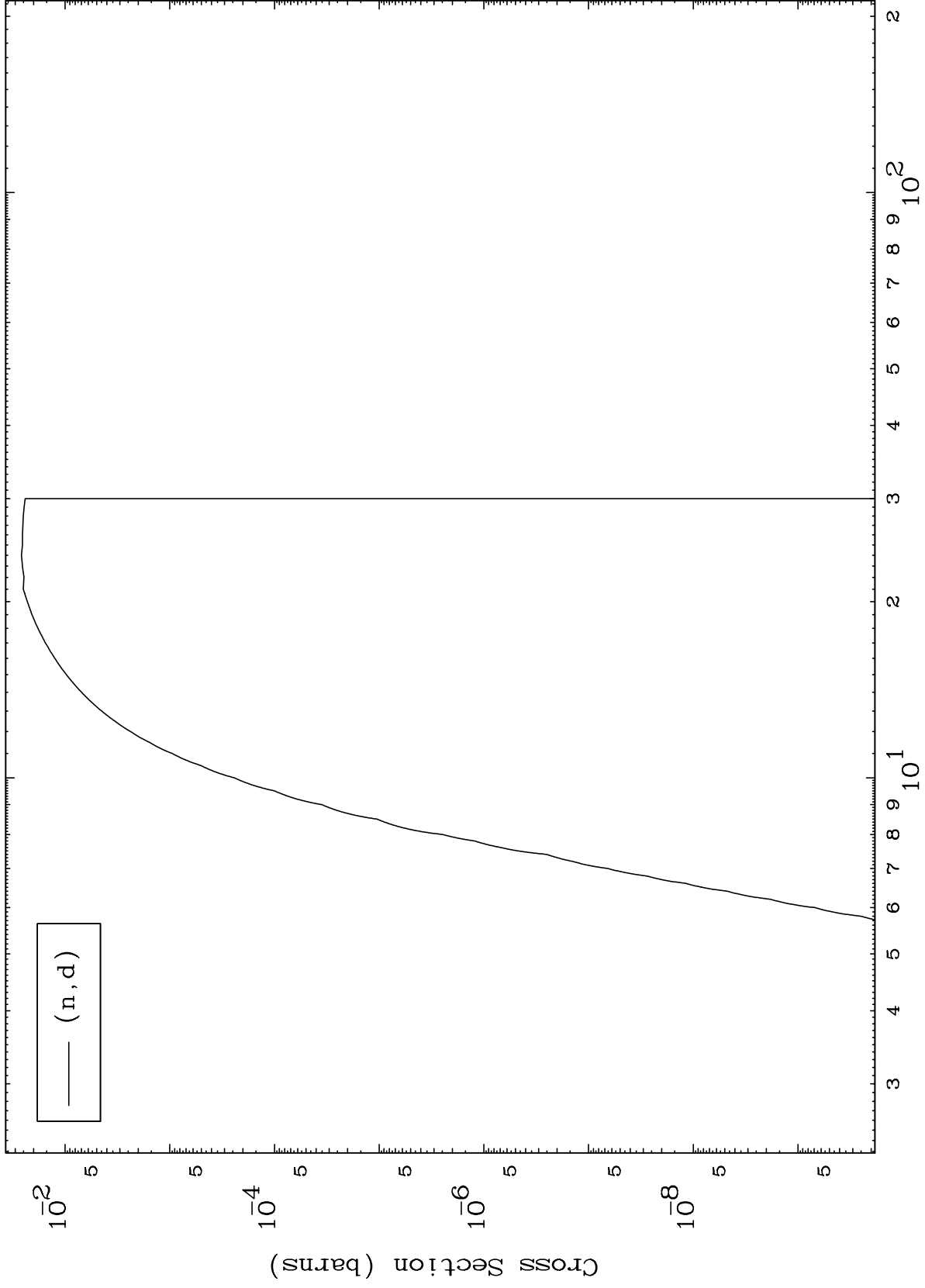
51-Sb-118m



MAT 5117

(n,d) Levels  
293 Kelvin Cross Sections

51-Sb-118m



12

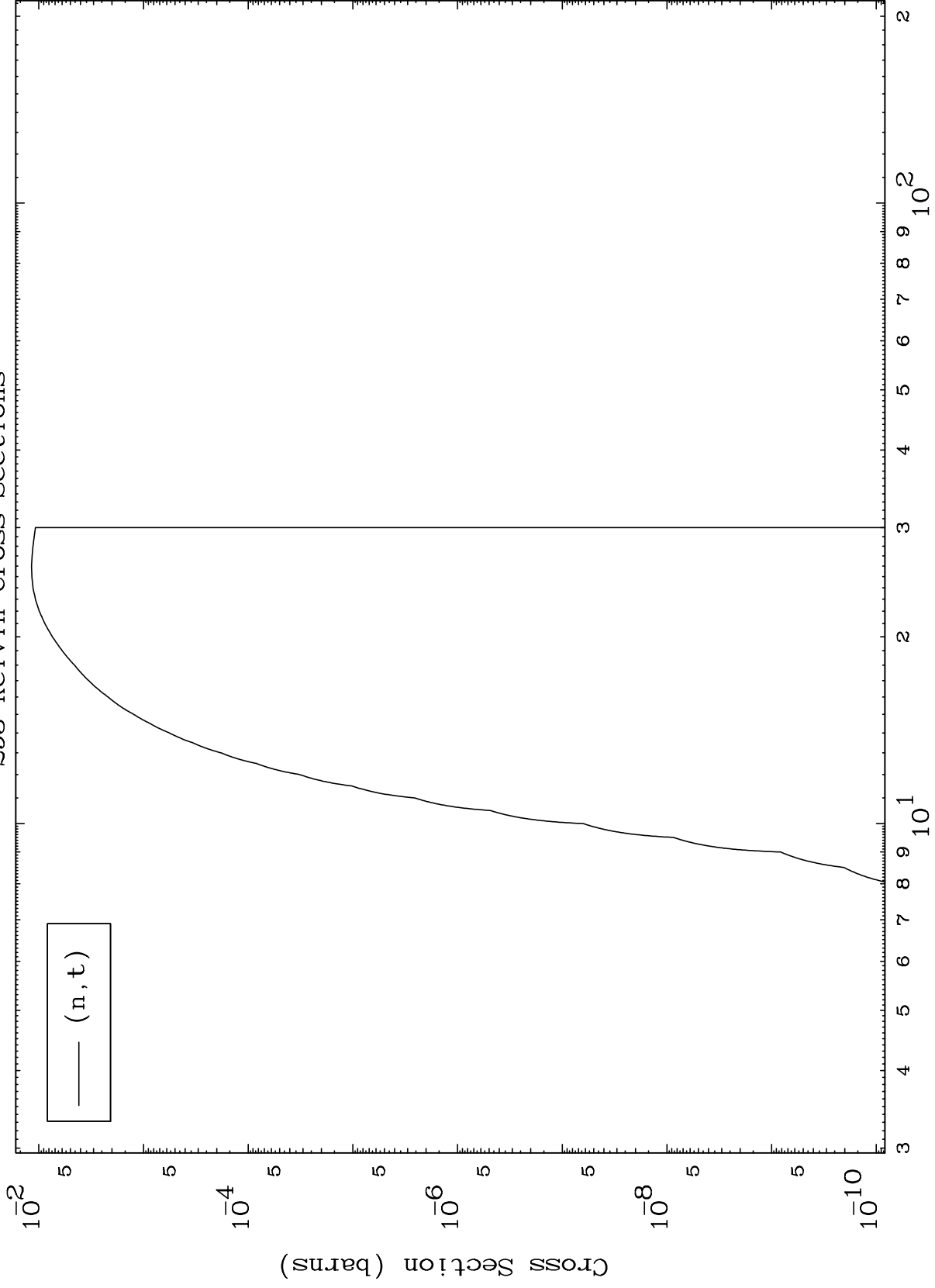
Incident Energy (MeV)

51-Sb-118m

MAT 5117

(n,t) Levels  
293 Kelvin Cross Sections

51-Sb-118m



13

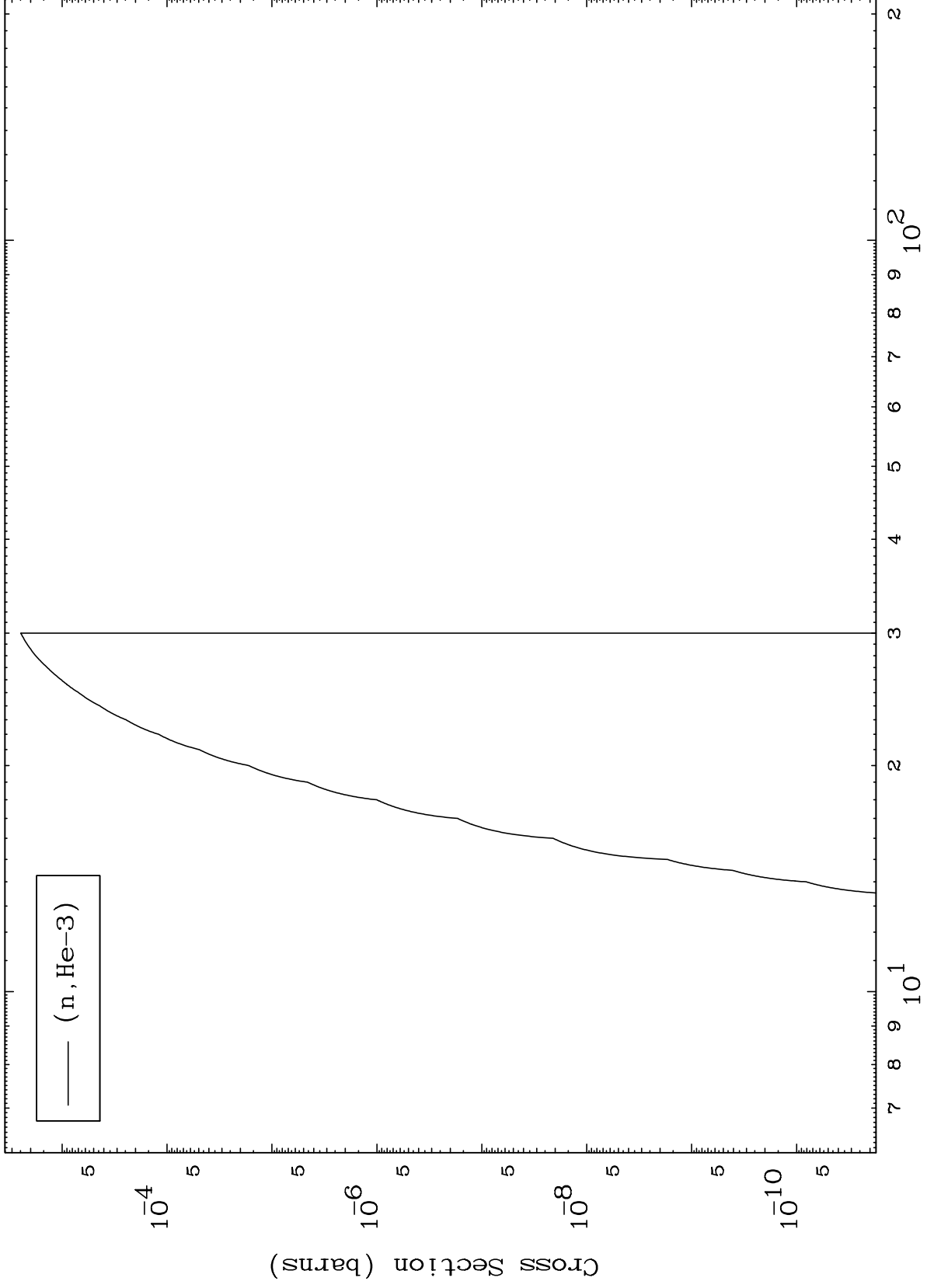
Incident Energy (MeV)

51-Sb-118m

MAT 51117

(n,He3) Levels  
293 Kelvin Cross Sections

51-Sb-118m



14

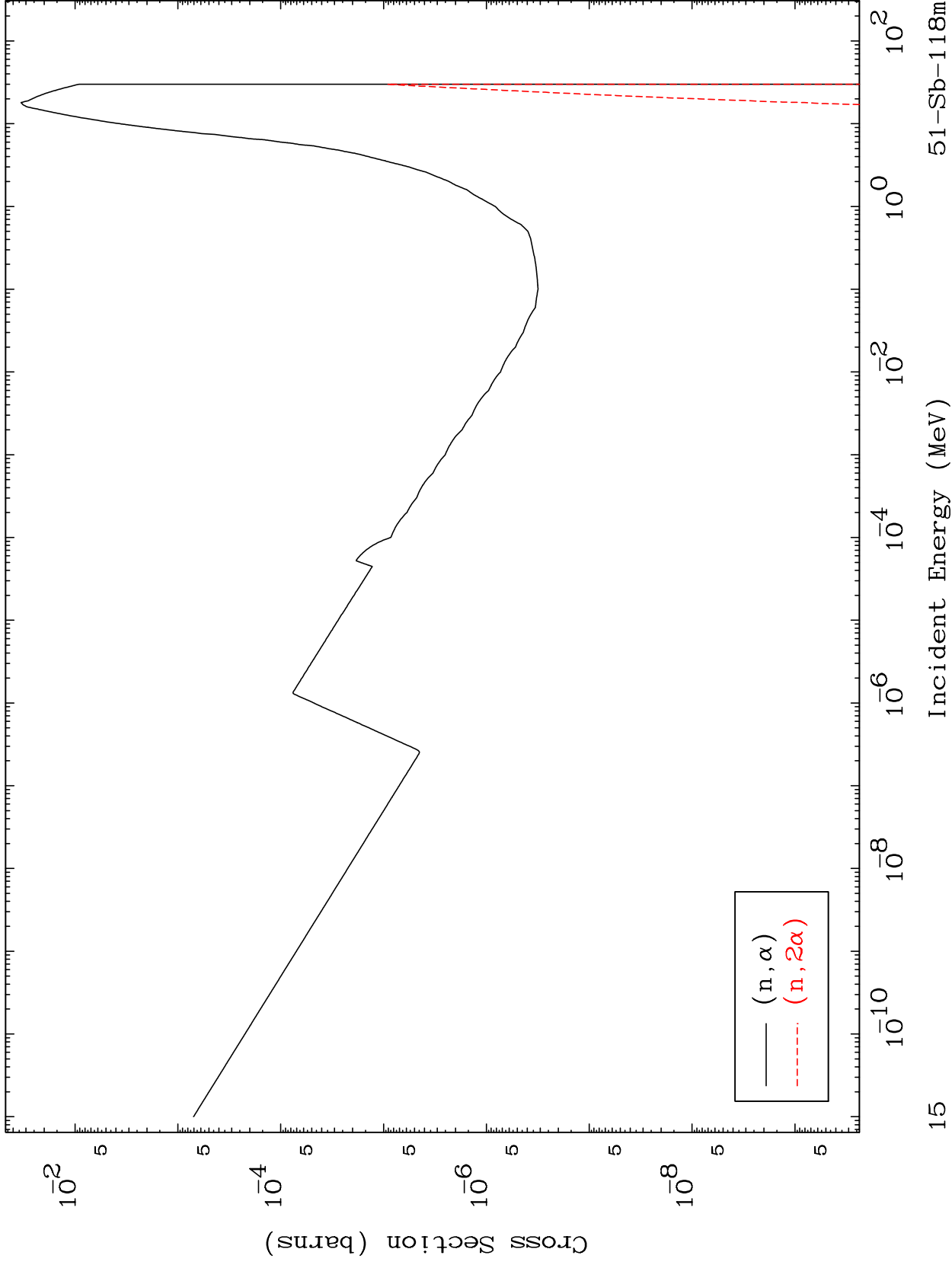
Incident Energy (MeV)

51-Sb-118m

MAT 5117

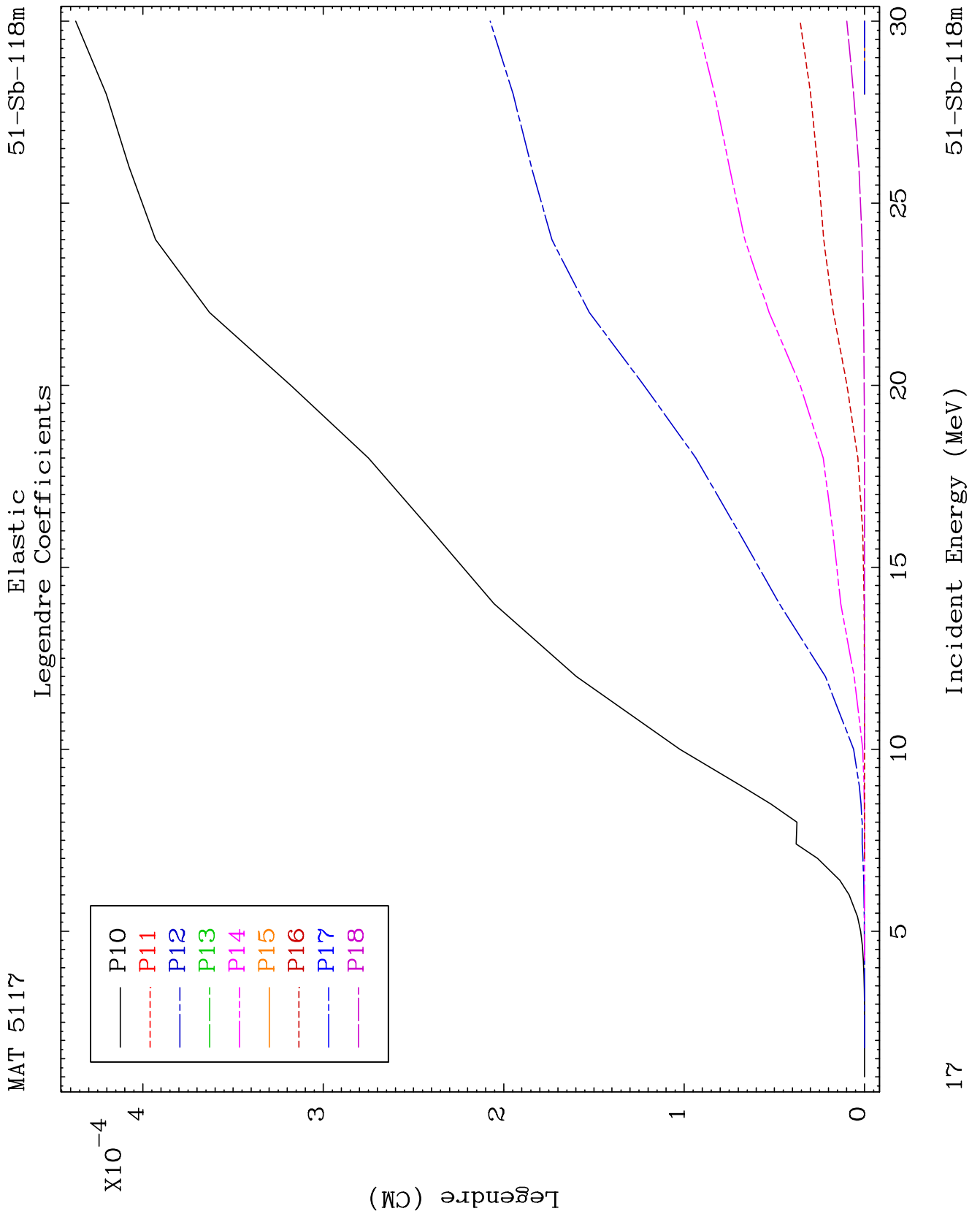
(n,α) Levels  
293 Kelvin Cross Sections

51-Sb-118m





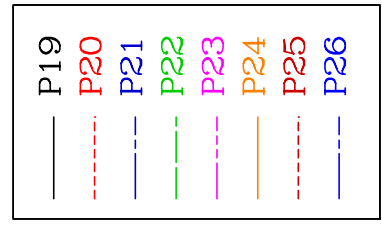




MAT 5117

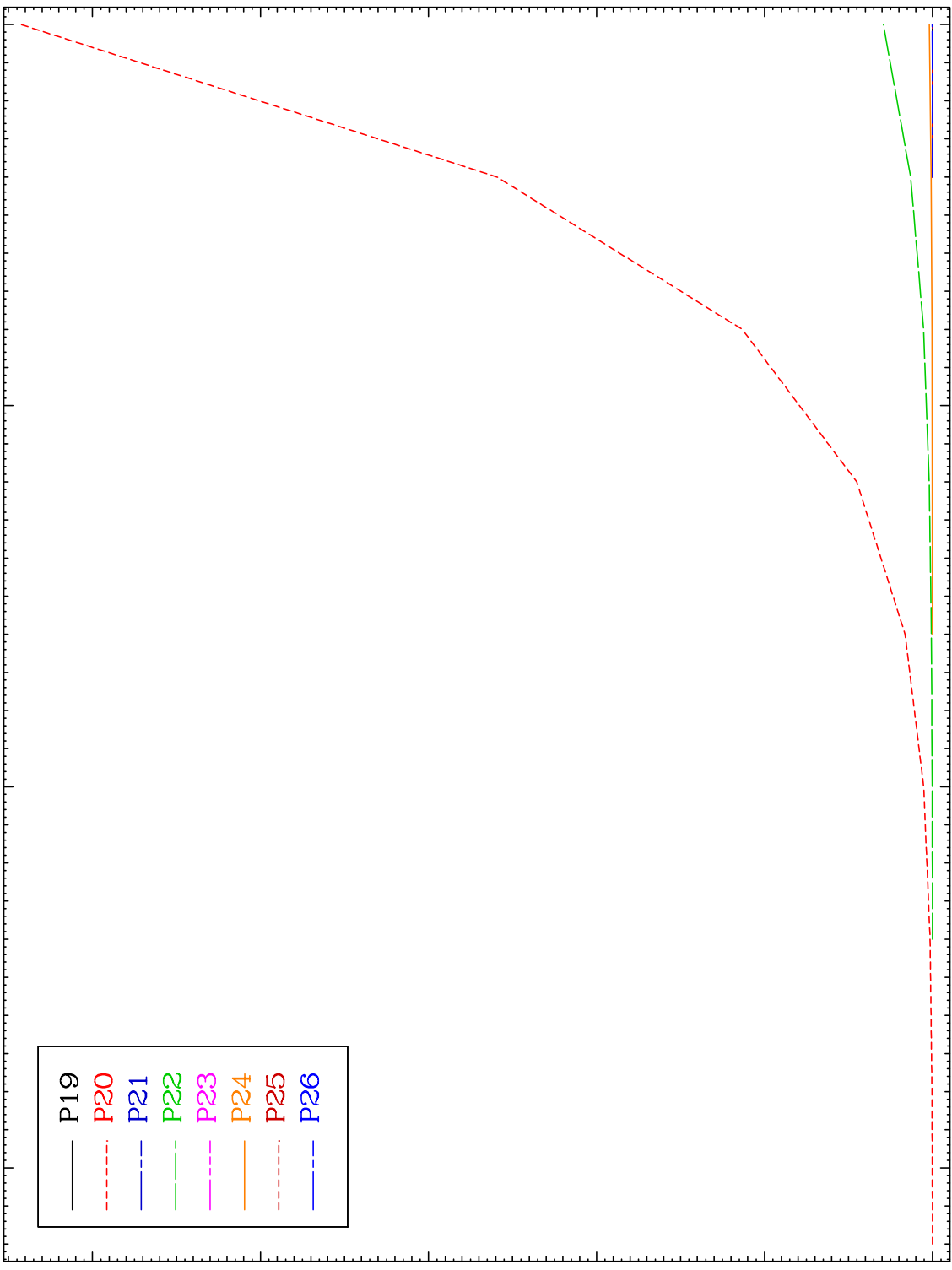
Elastic Legendre Coefficients

51-Sb-118m



$\times 10^{-7}$

Legendre (CM)



18

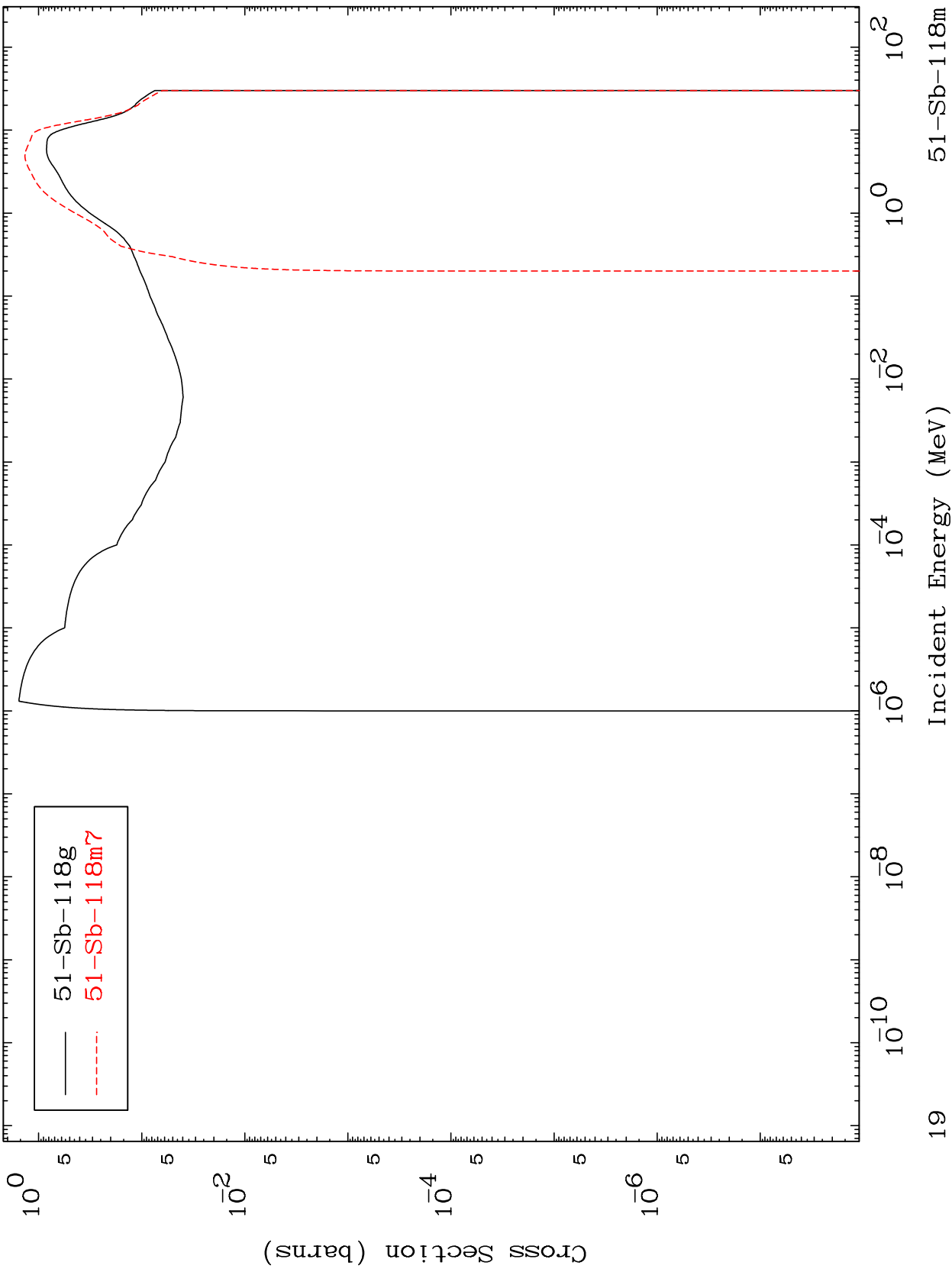
Incident Energy (MeV)

51-Sb-118m

MAT 5117

51-Sb-118m

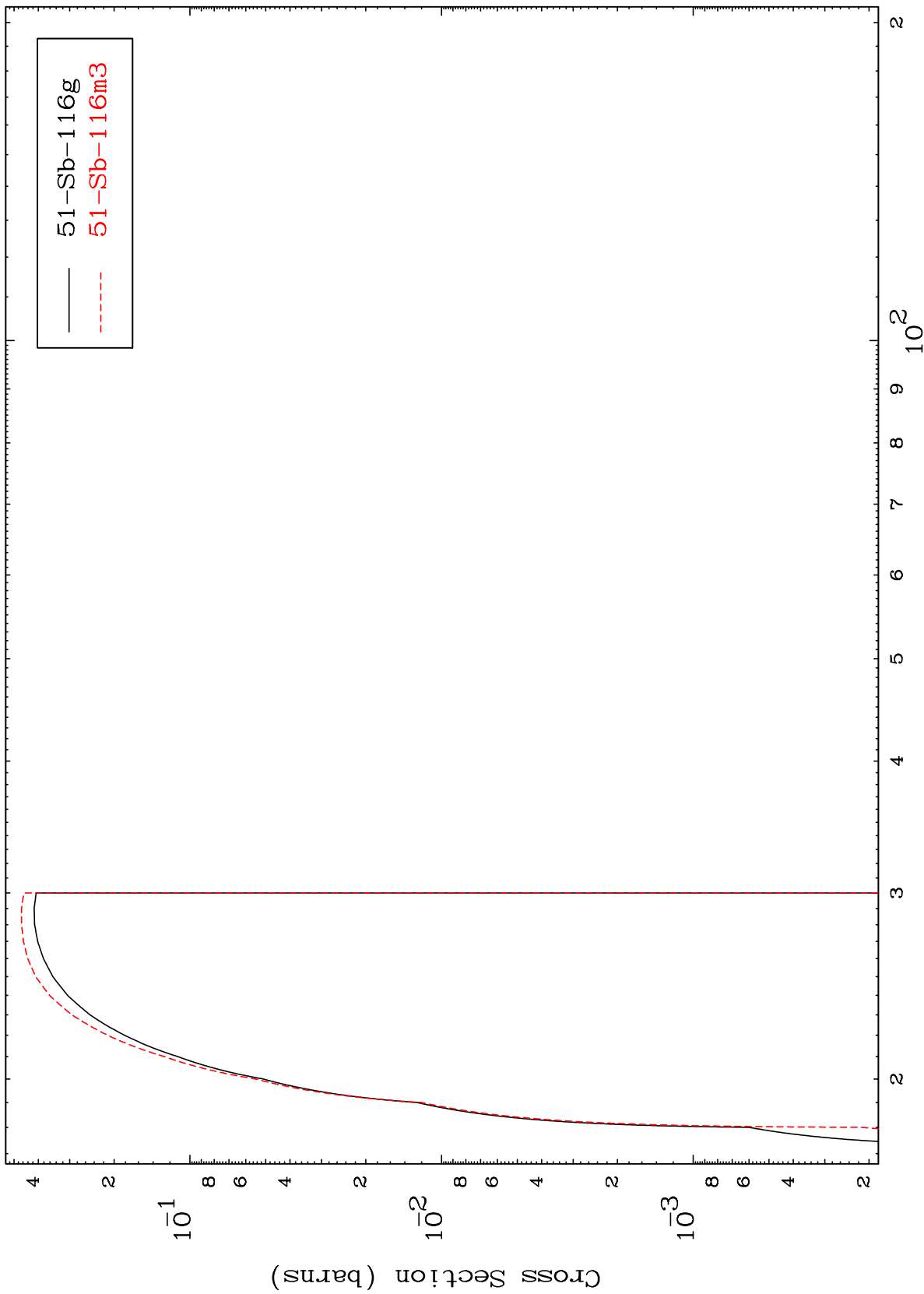
Inelastic  
Radionuclide Production Cross Section



MAT 5117

51-Sb-118m

(n,3n)  
Radionuclide Production Cross Section



51-Sb-118m

Incident Energy (MeV)

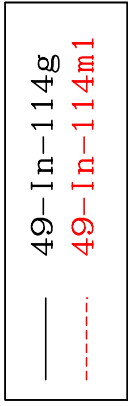
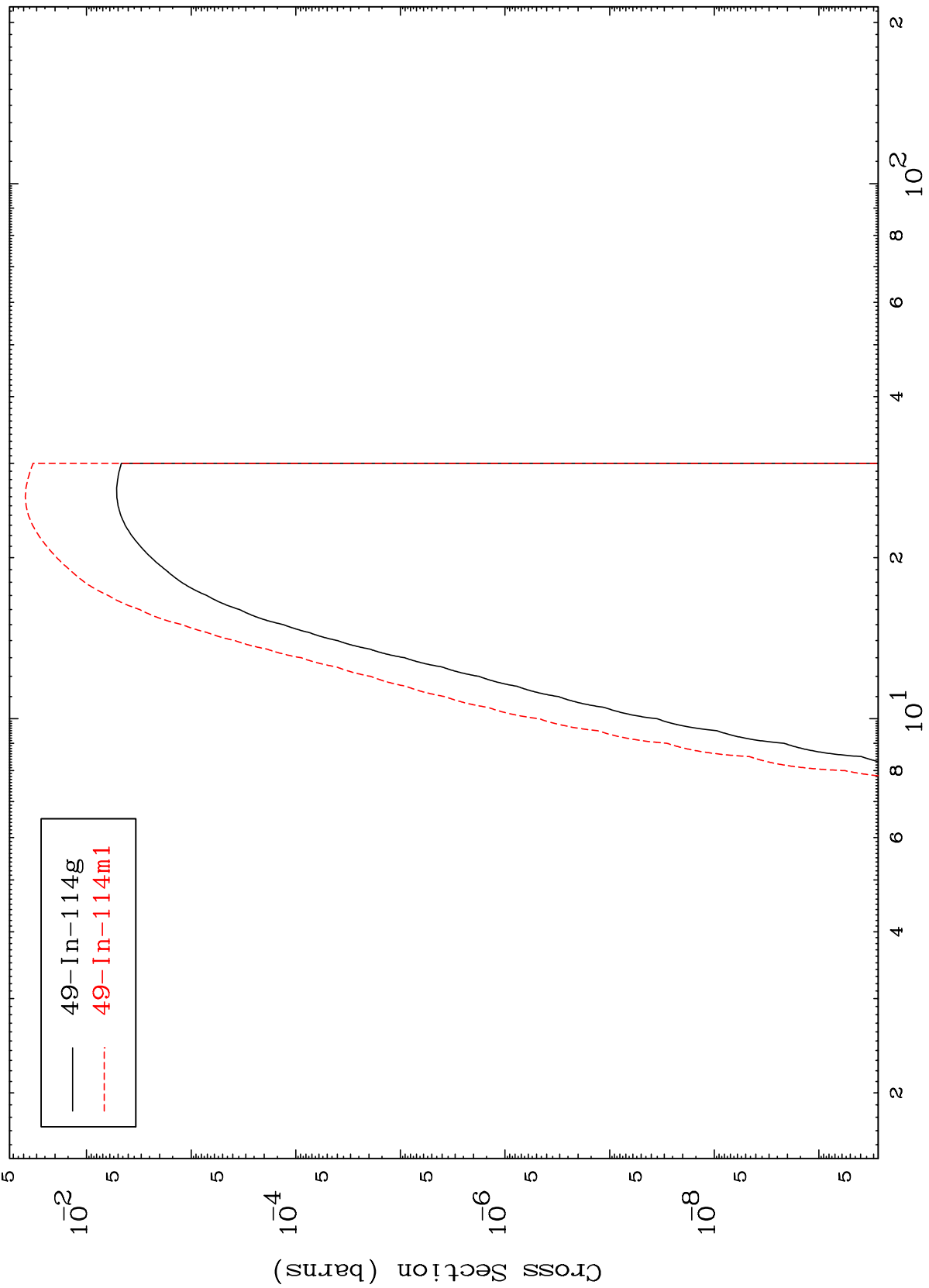
20

MAT 5117

(n,n')  $\alpha$

51-Sb-118m

Radionuclide Production Cross Section

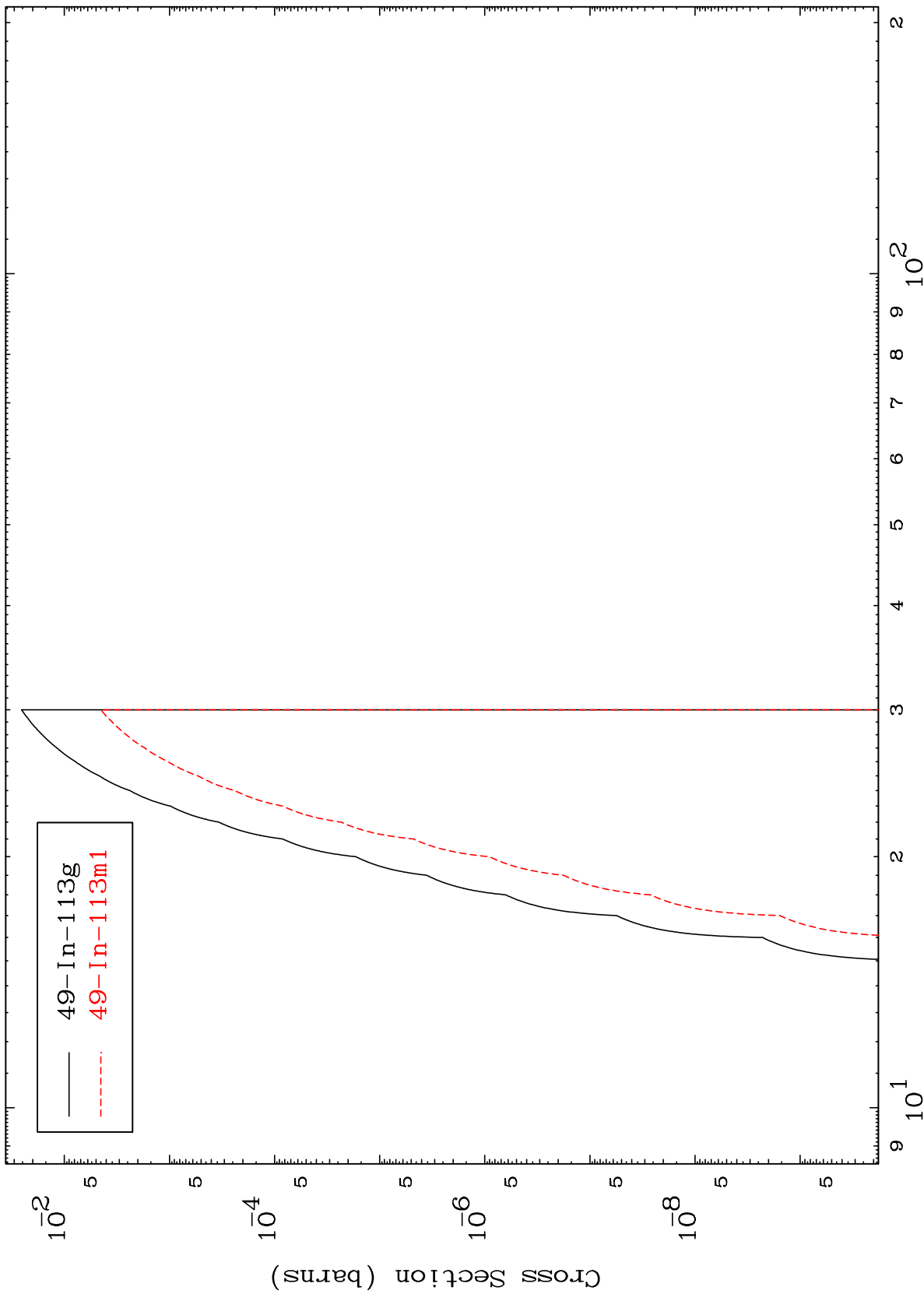


MAT 5117

(n,2n)  $\alpha$

51-Sb-118m

Radionuclide Production Cross Section



— 49-In-113g  
- - - 49-In-113m1

22

Incident Energy (MeV)

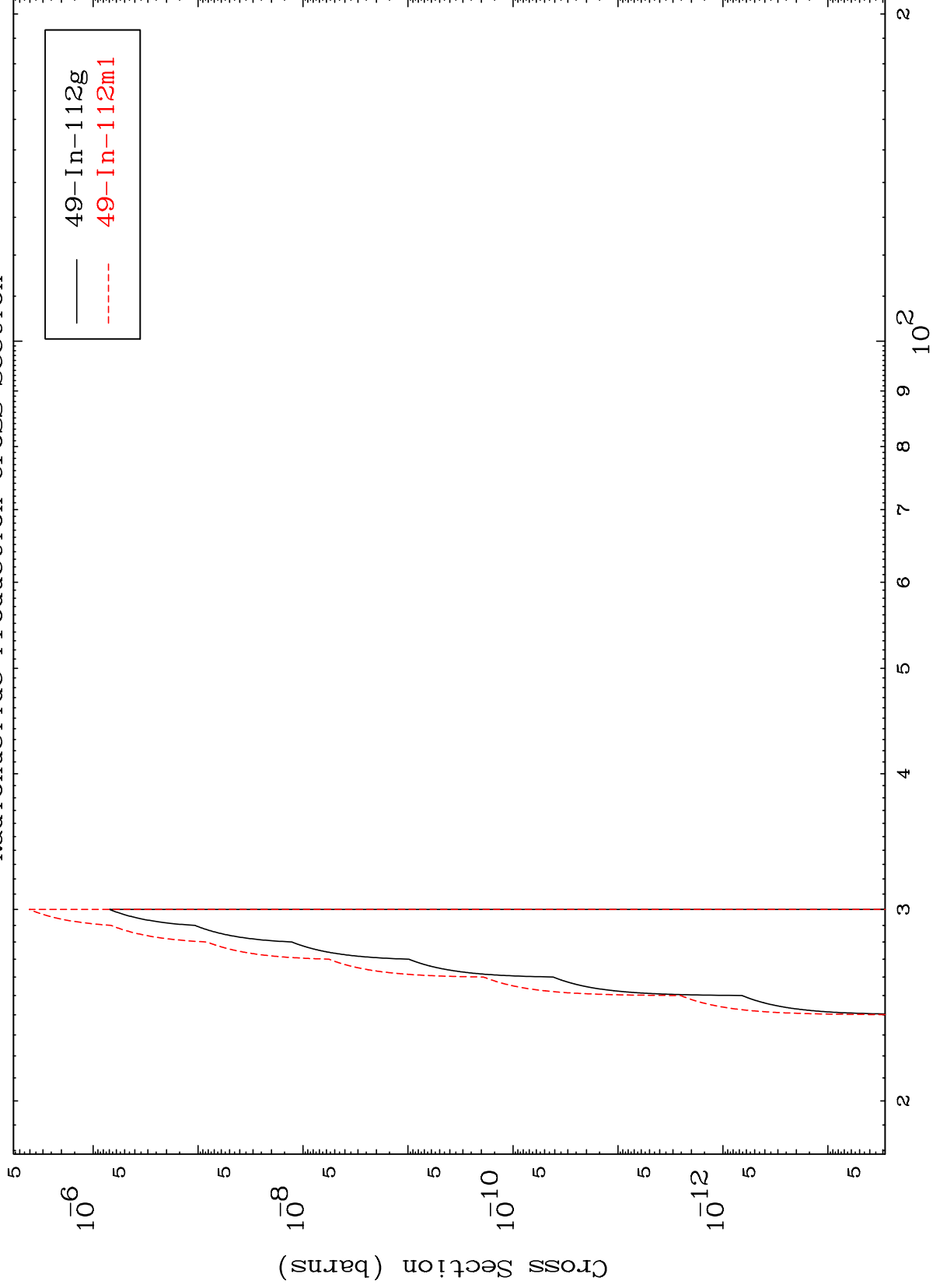
51-Sb-118m

MAT 51117

(n,3n)  $\alpha$

51-Sb-118m

Radionuclide Production Cross Section



23

Incident Energy (MeV)

51-Sb-118m

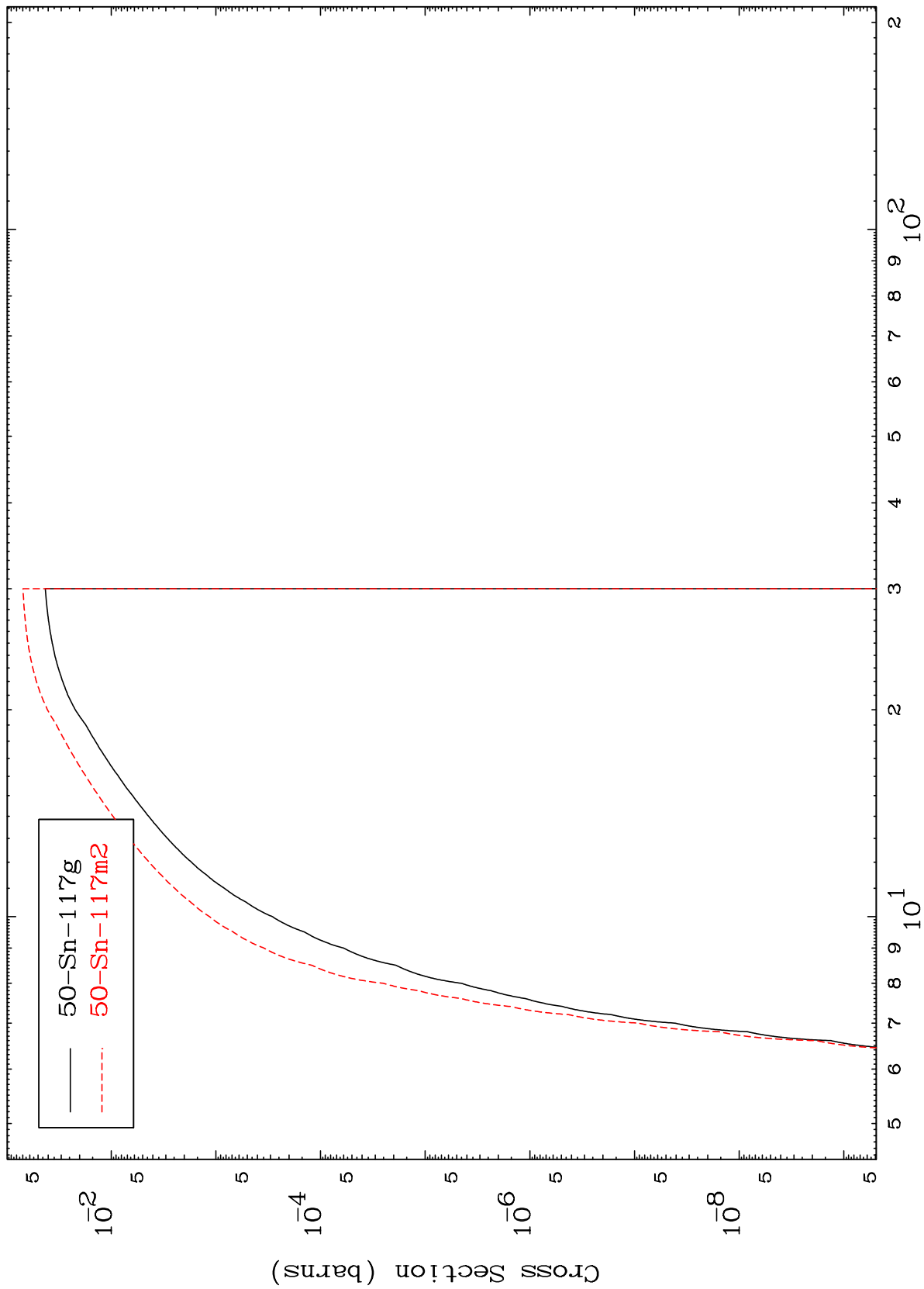


MAT 5117

(n,n') p

51-Sb-118m

Radionuclide Production Cross Section



24

Incident Energy (MeV)

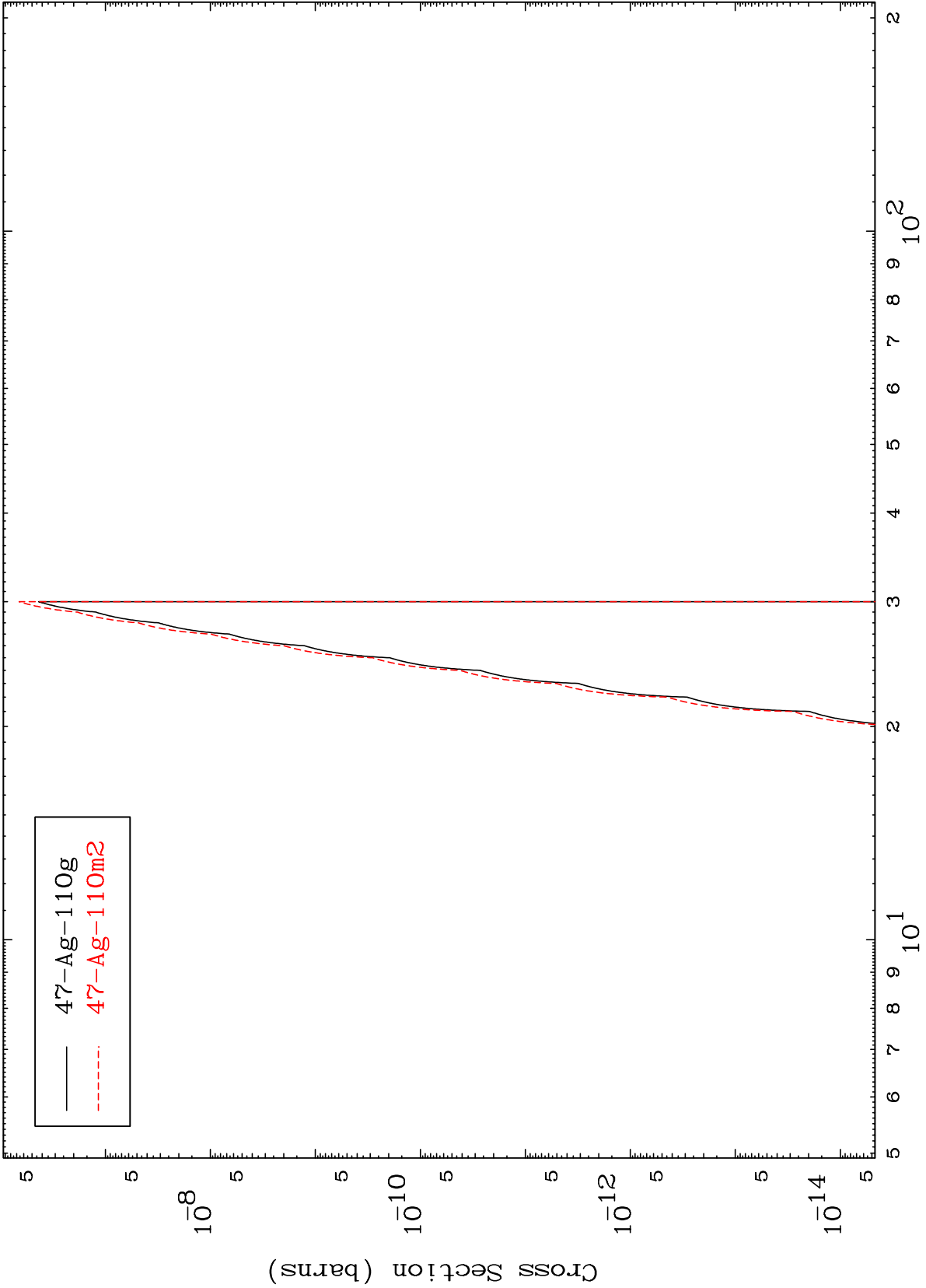
51-Sb-118m

MAT 5117

(n,n') 2α

51-Sb-118m

Radionuclide Production Cross Section



25

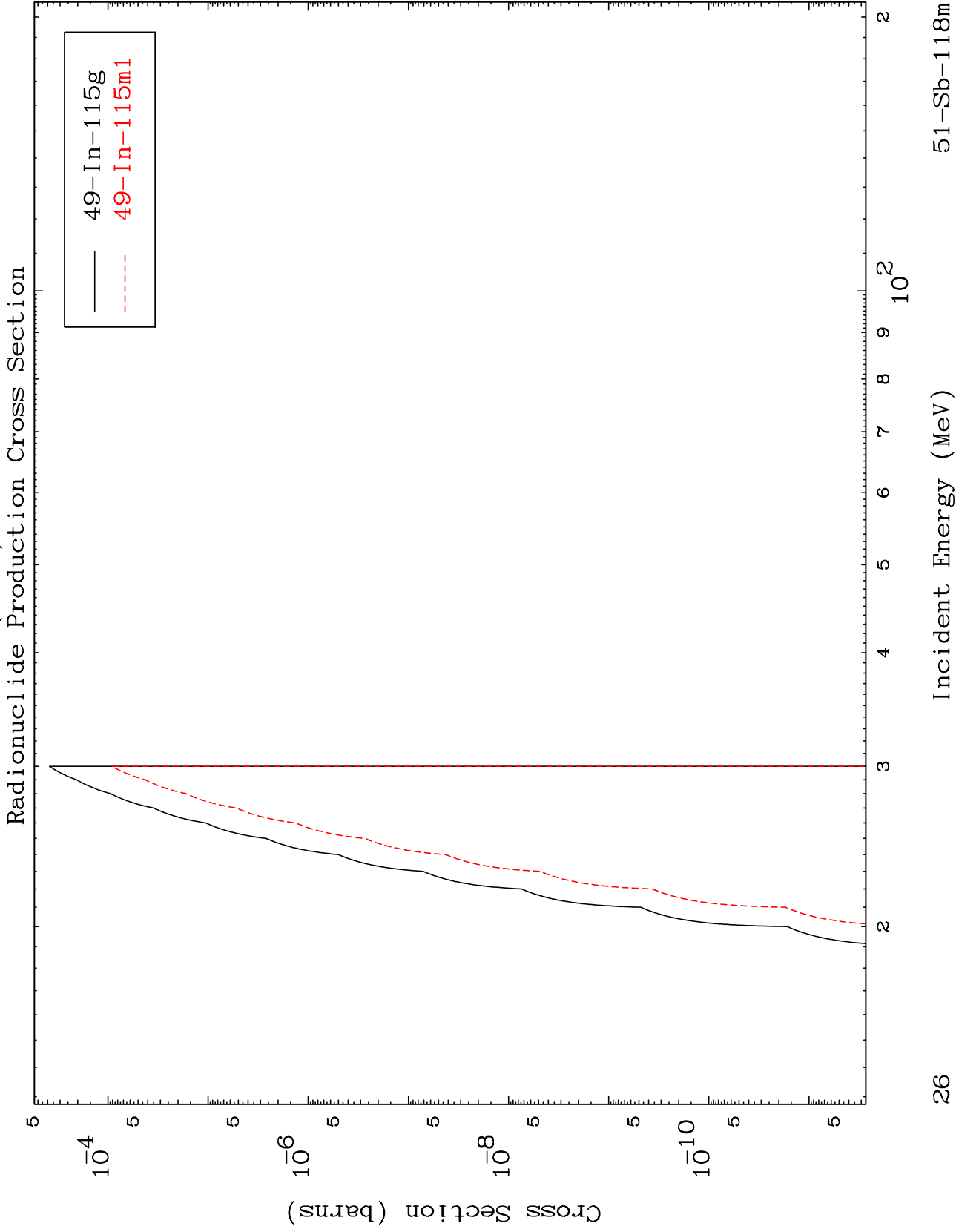
Incident Energy (MeV)

51-Sb-118m

MAT 5117

(n,n') He-3

51-Sb-118m



26

Incident Energy (MeV)

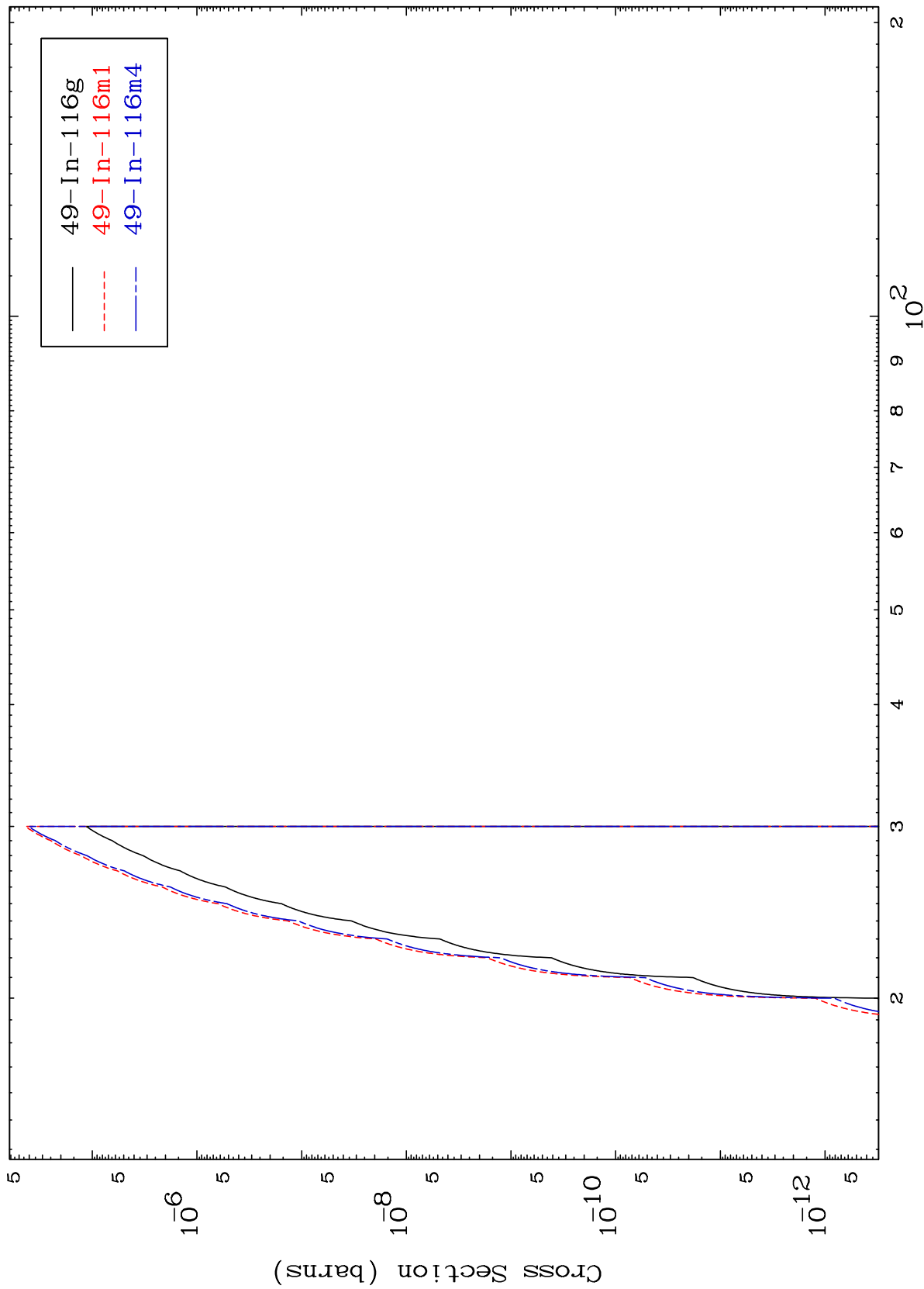
51-Sb-118m

MAT 5117

(n,2n) p

51-Sb-118m

Radionuclide Production Cross Section



27

Incident Energy (MeV)

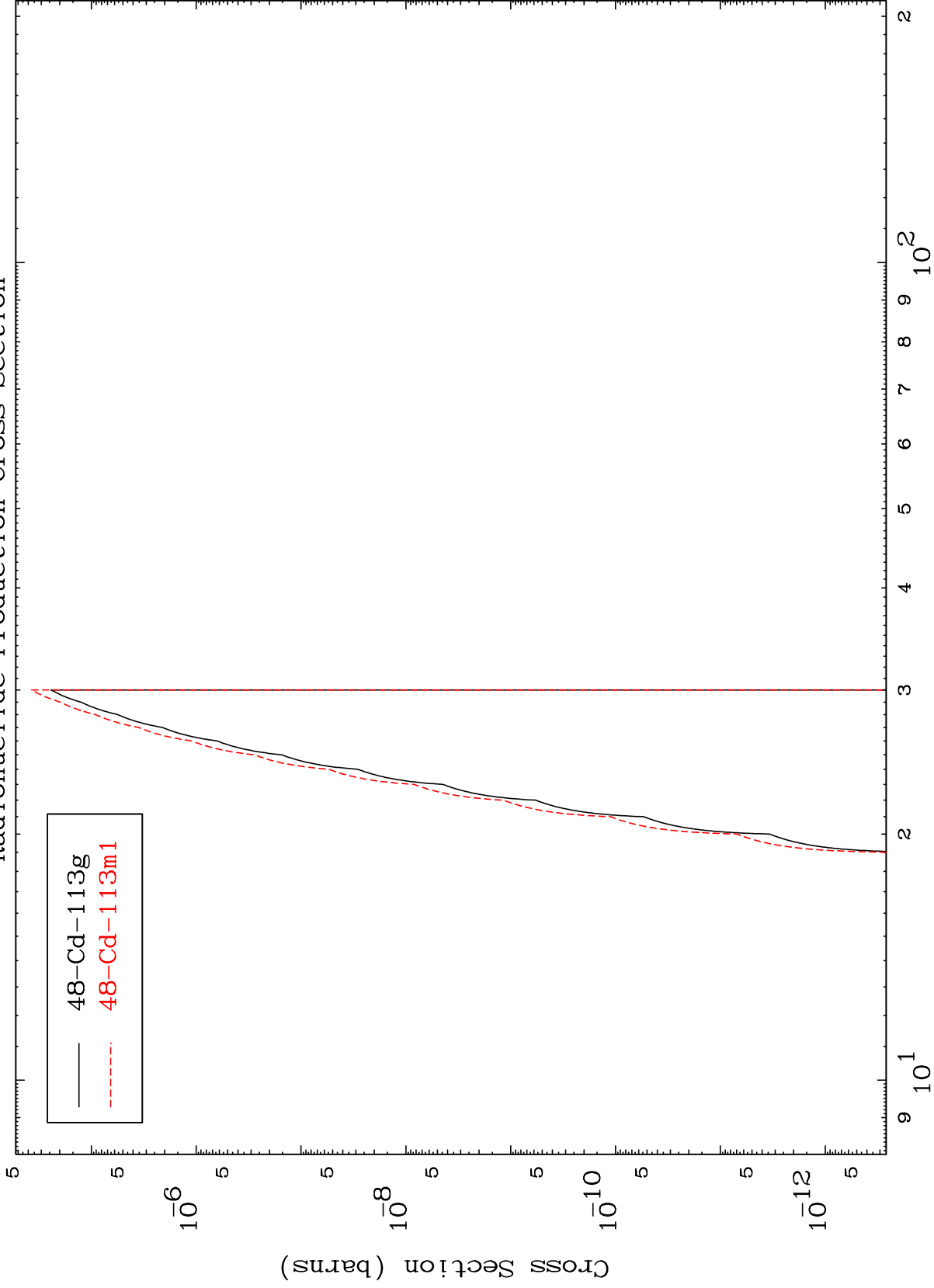
51-Sb-118m

MAT 5117

(n,n') p  $\alpha$

51-Sb-118m

Radionuclide Production Cross Section



28

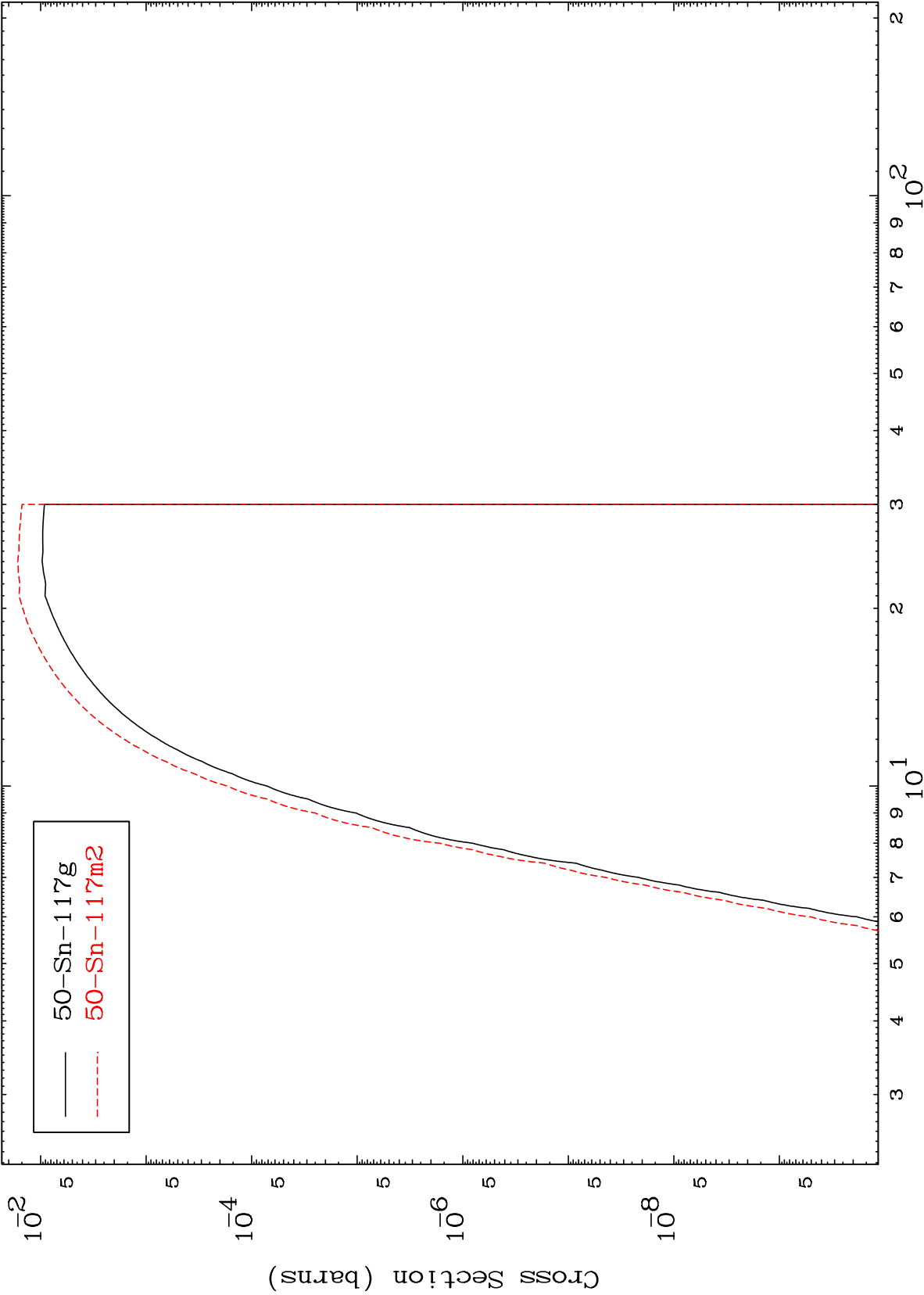
Incident Energy (MeV)

51-Sb-118m

MAT 5117

51-Sb-118m

(n,d)  
Radionuclide Production Cross Section

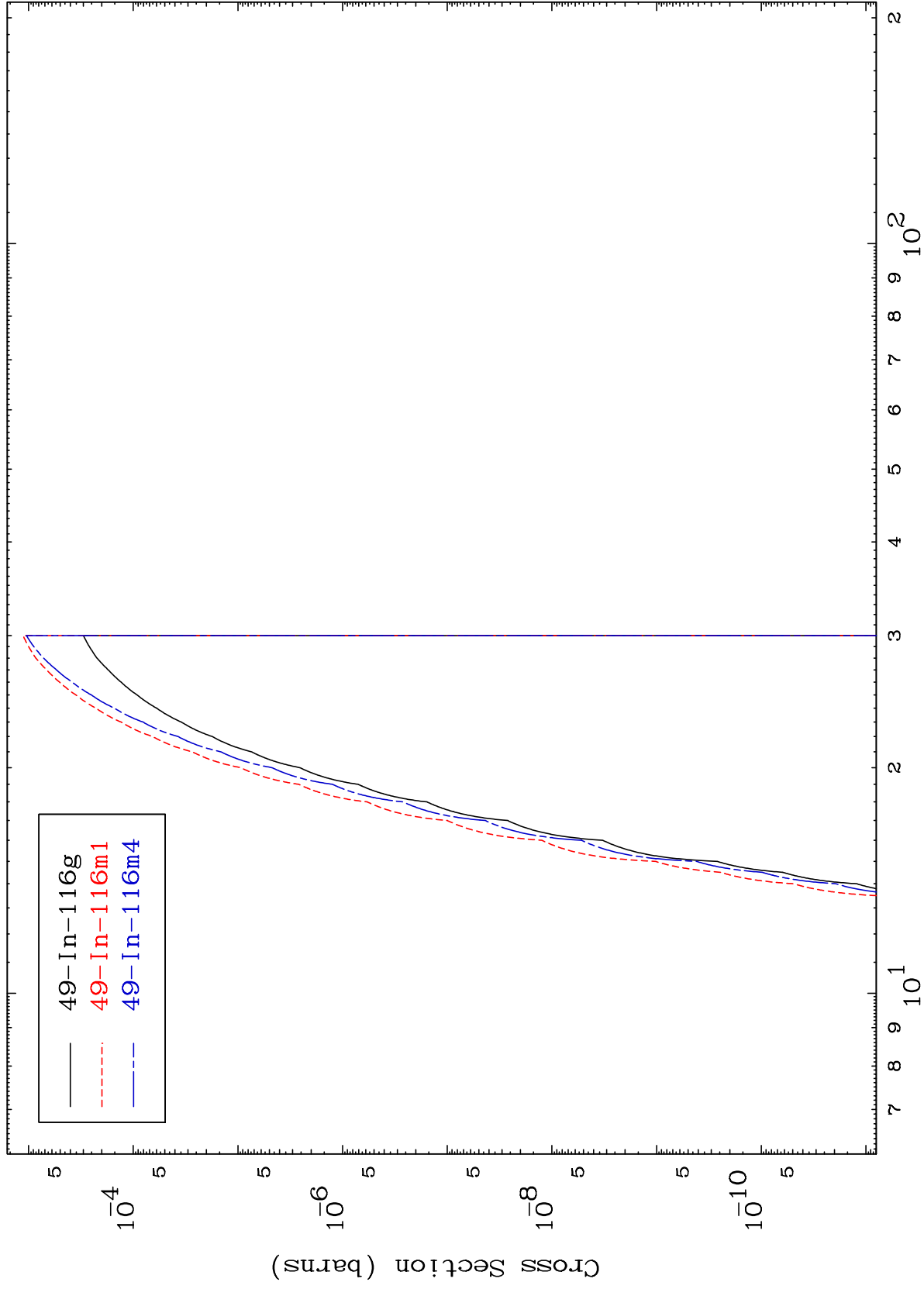


MAT 5117

(n,He-3)

51-Sb-118m

Radionuclide Production Cross Section



30

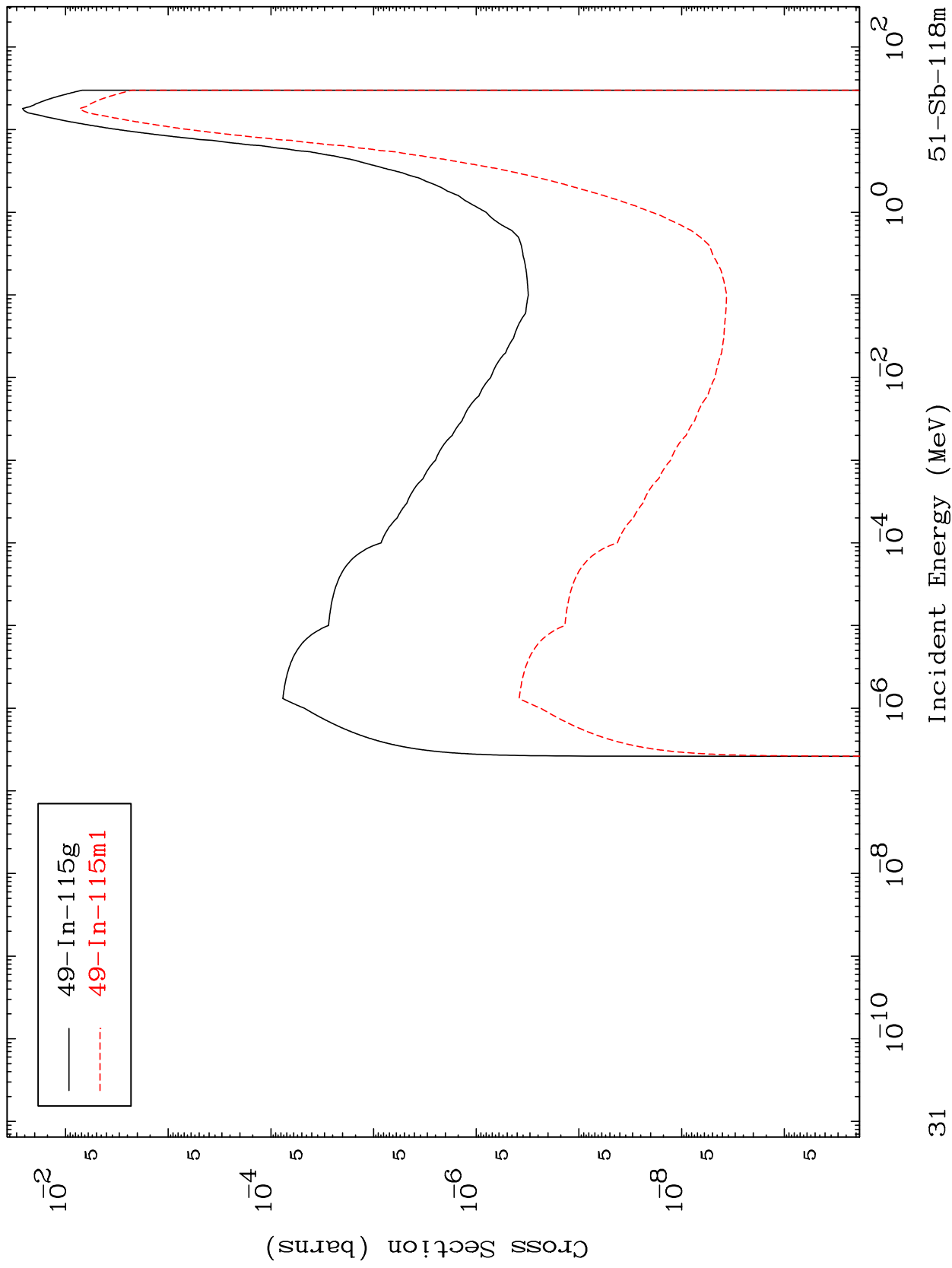
Incident Energy (MeV)

51-Sb-118m

MAT 5117

51-Sb-118m

(n,  $\alpha$ )  
Radionuclide Production Cross Section



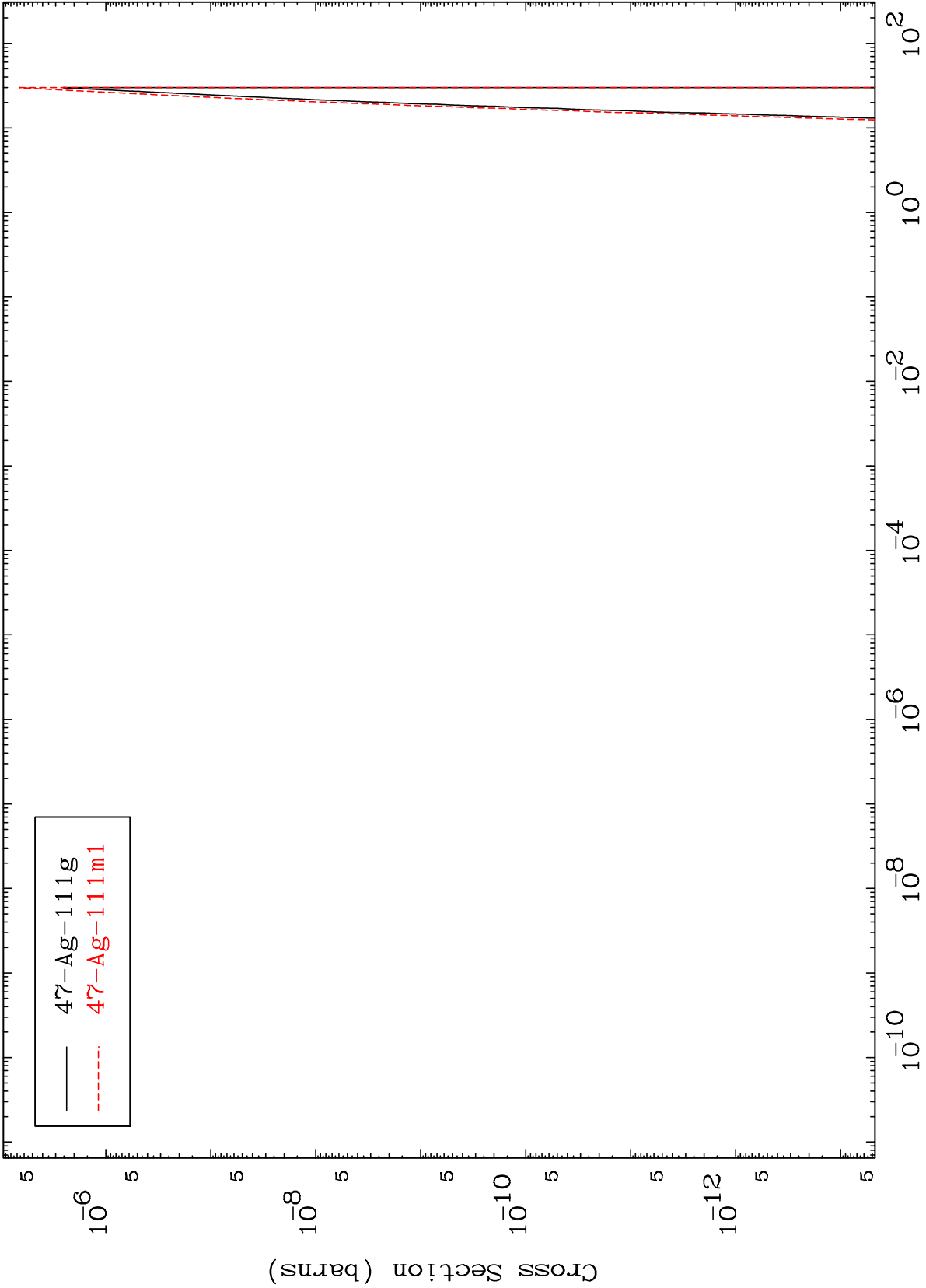


MAT 5117

(n,2α)

51-Sb-118m

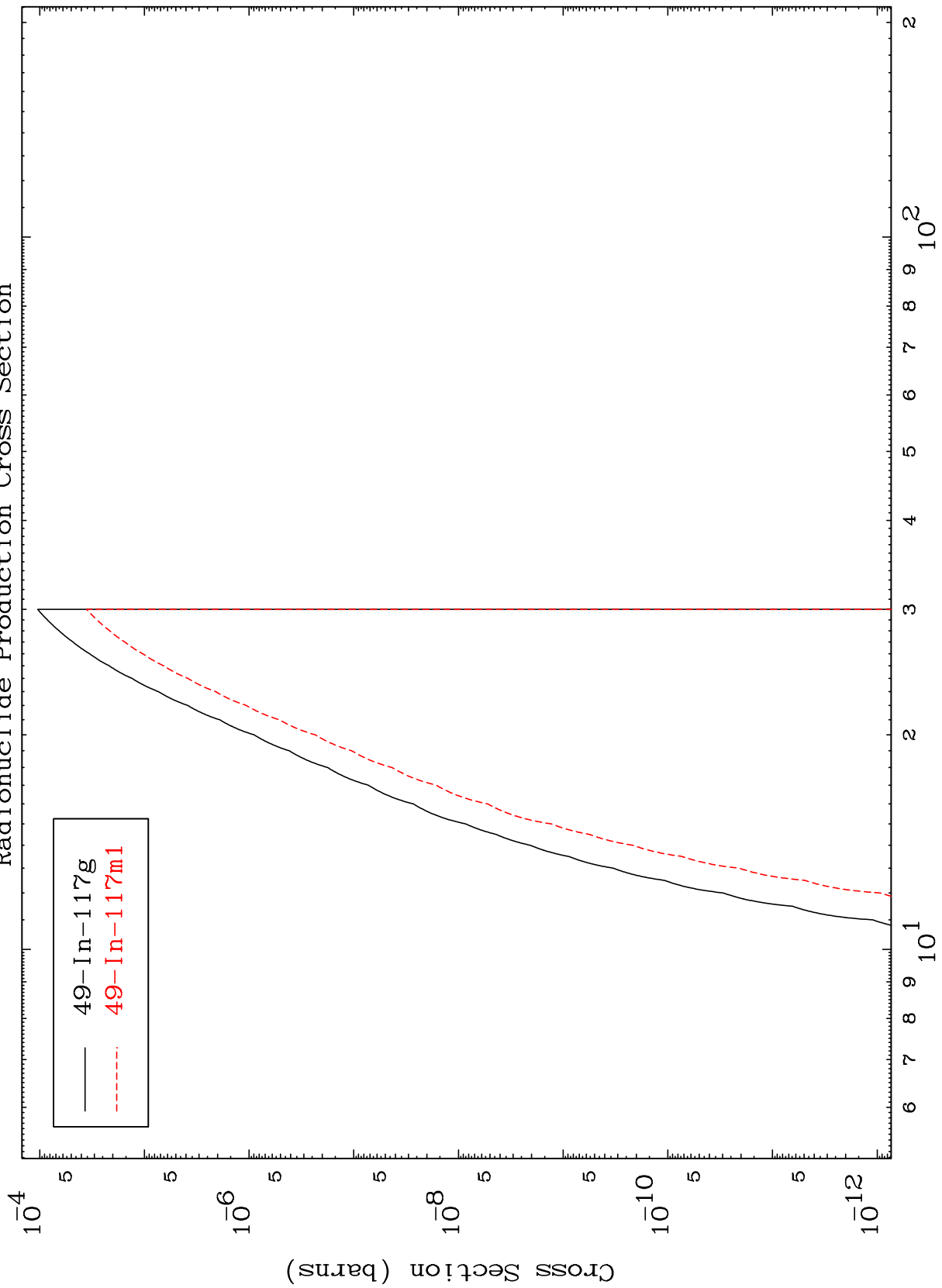
Radionuclide Production Cross Section



MAT 5117

51-Sb-118m

Radionuclide Production Cross Section (n,2p)



51-Sb-118m

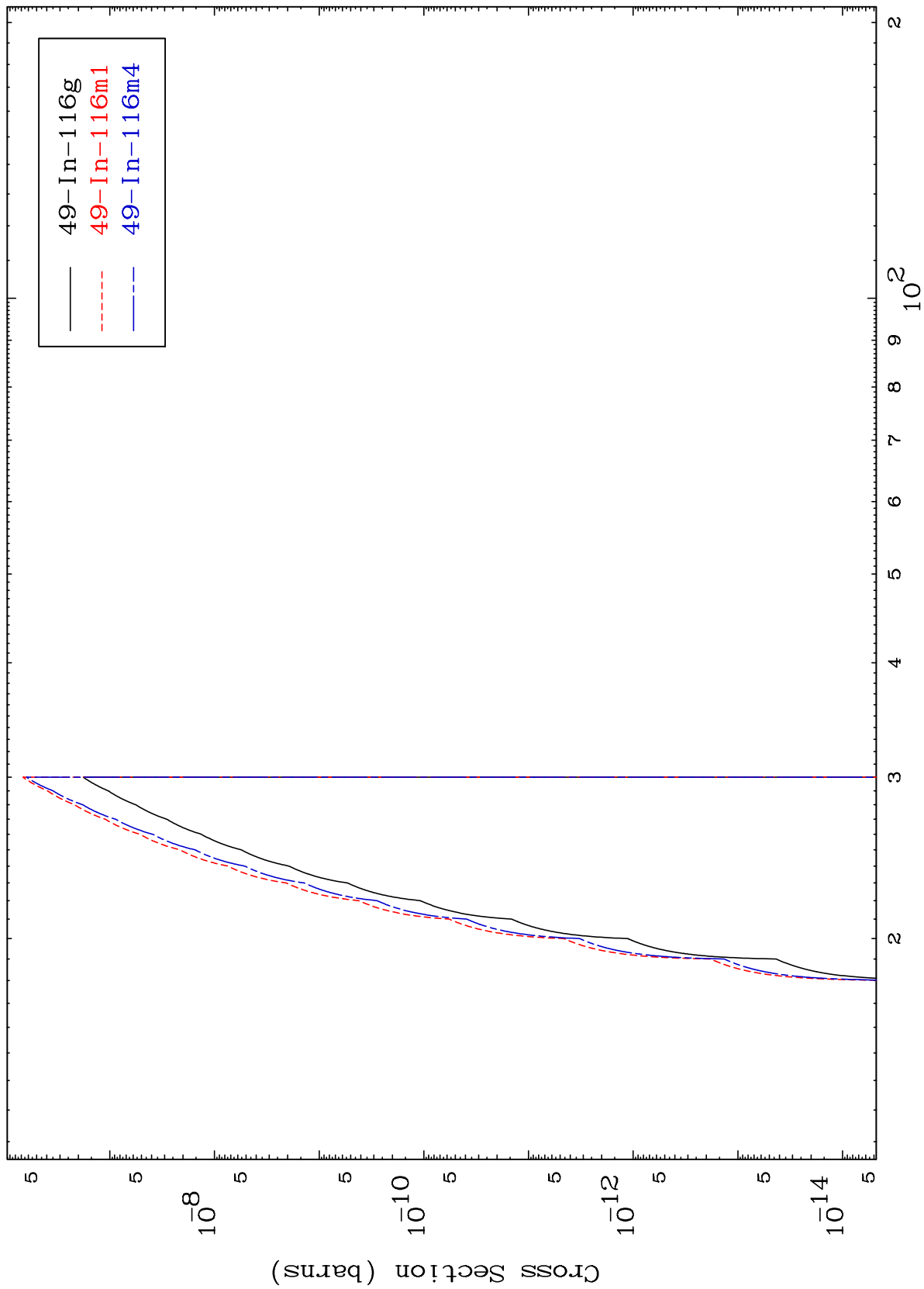
Incident Energy (MeV)

MAT 5117

(n,p) d

51-Sb-118m

Radionuclide Production Cross Section



34

Incident Energy (MeV)

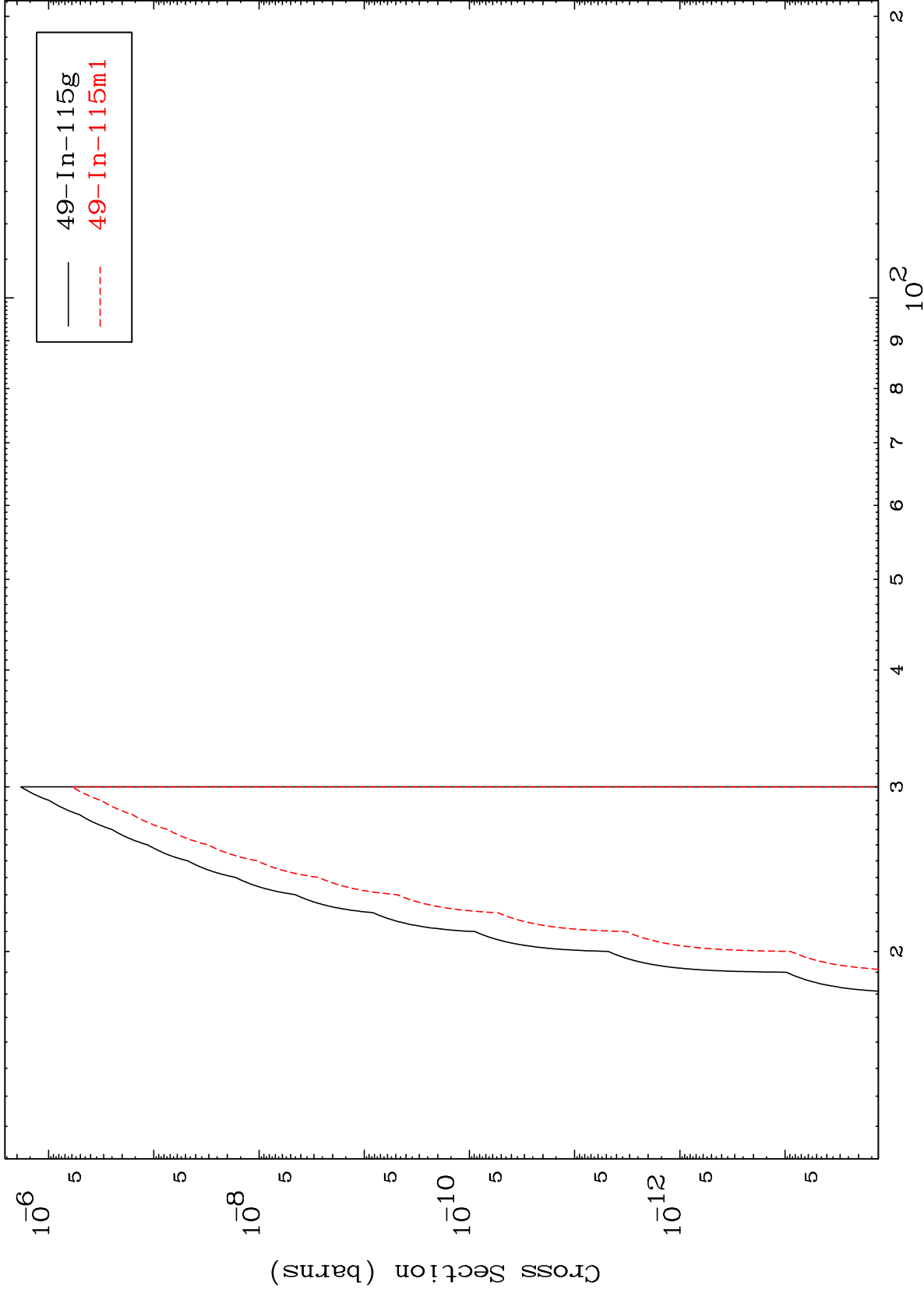
51-Sb-118m

MAT 5117

(n,p) t

51-Sb-118m

Radionuclide Production Cross Section



35

Incident Energy (MeV)

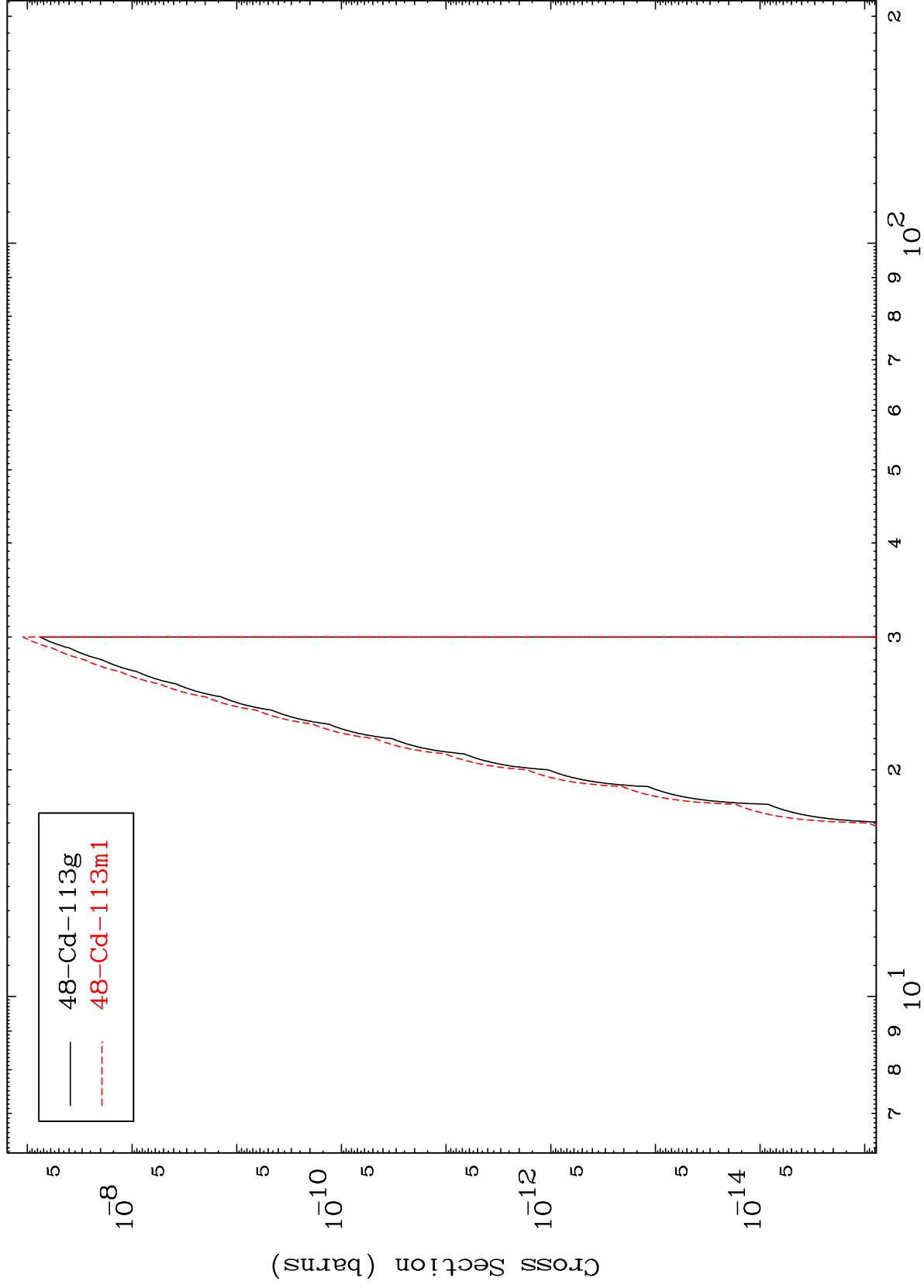
51-Sb-118m

MAT 5117

(n,d)  $\alpha$

51-Sb-118m

Radionuclide Production Cross Section



36

Incident Energy (MeV)

51-Sb-118m