

Program EVALPLOT
(Version 2015-2)

by

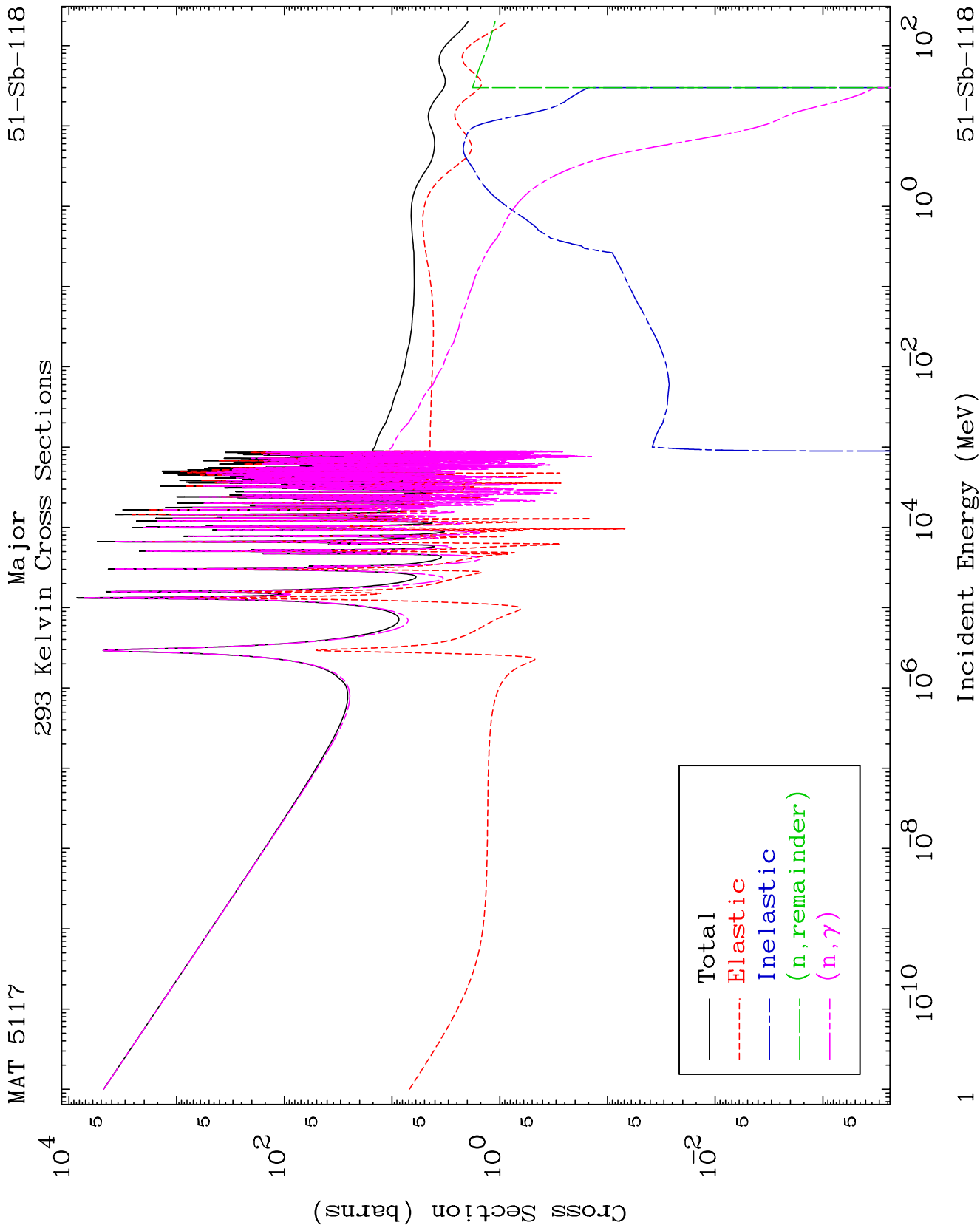
Dermott E. Cullen
(Present Contact Information)

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Livermore, CA 94550
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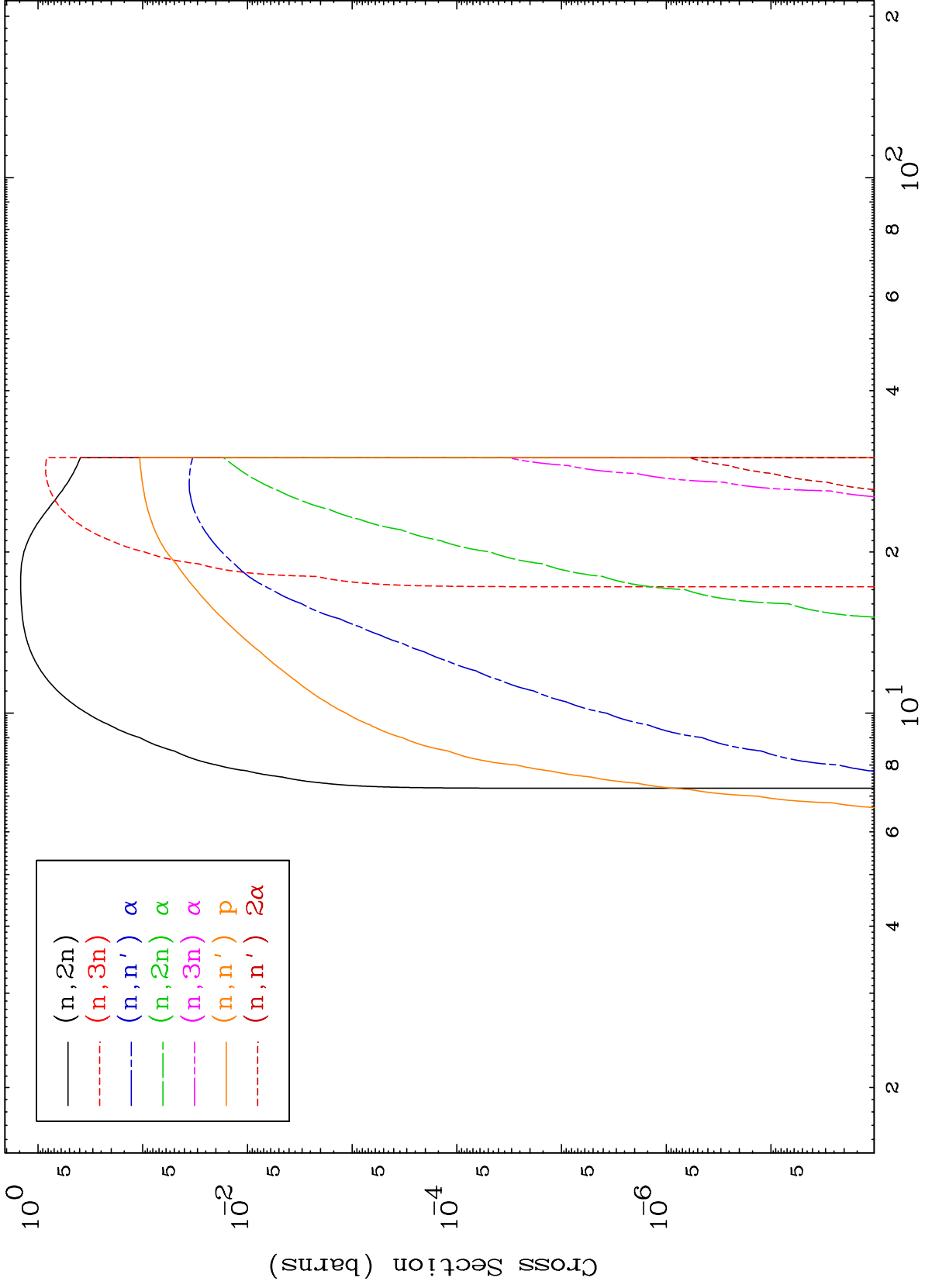
Press Mouse Button to Start



MAT 5117

Neutron Production
293 Kelvin Cross Sections

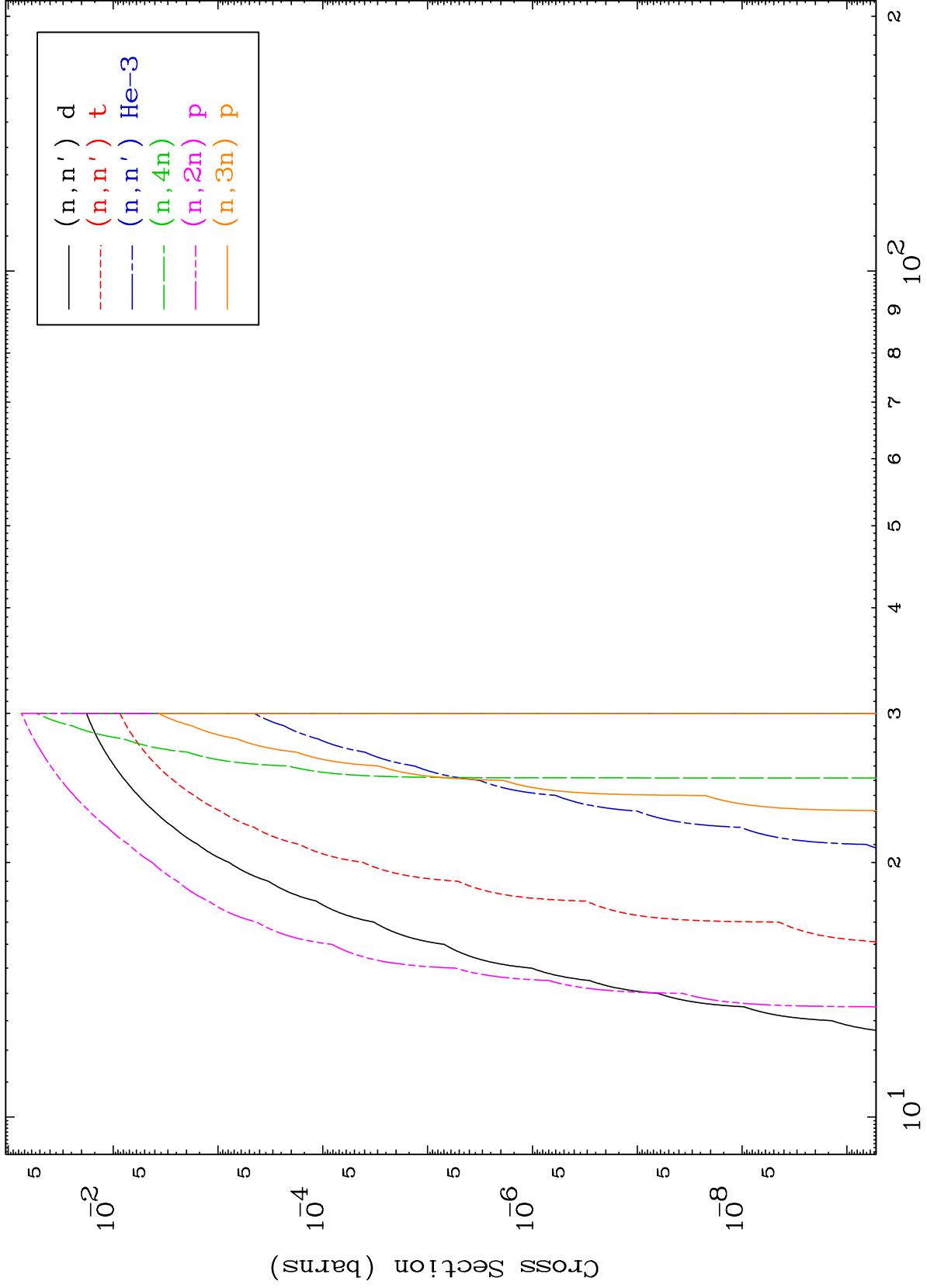
51-Sb-118

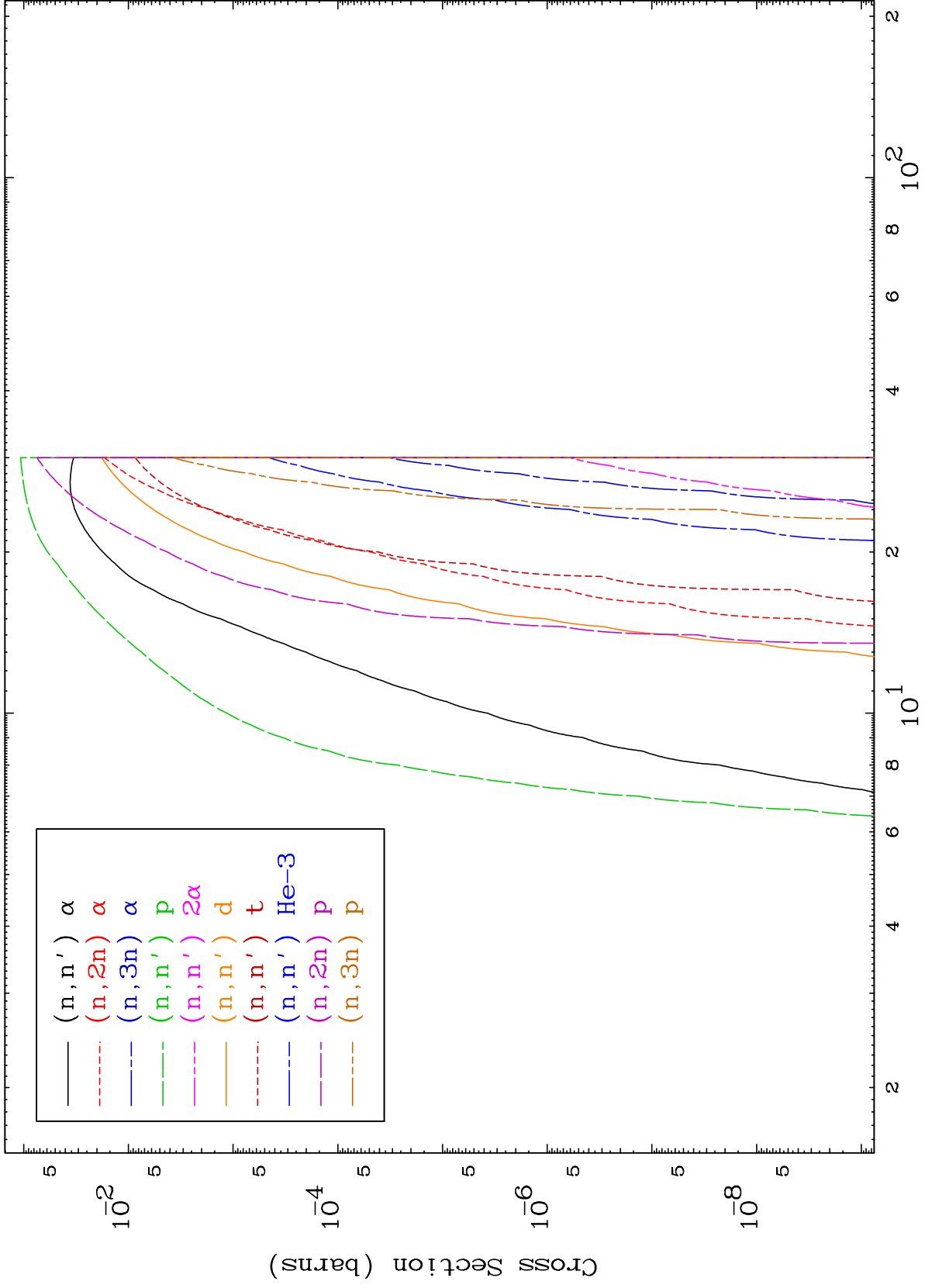


2

Incident Energy (MeV)

51-Sb-118

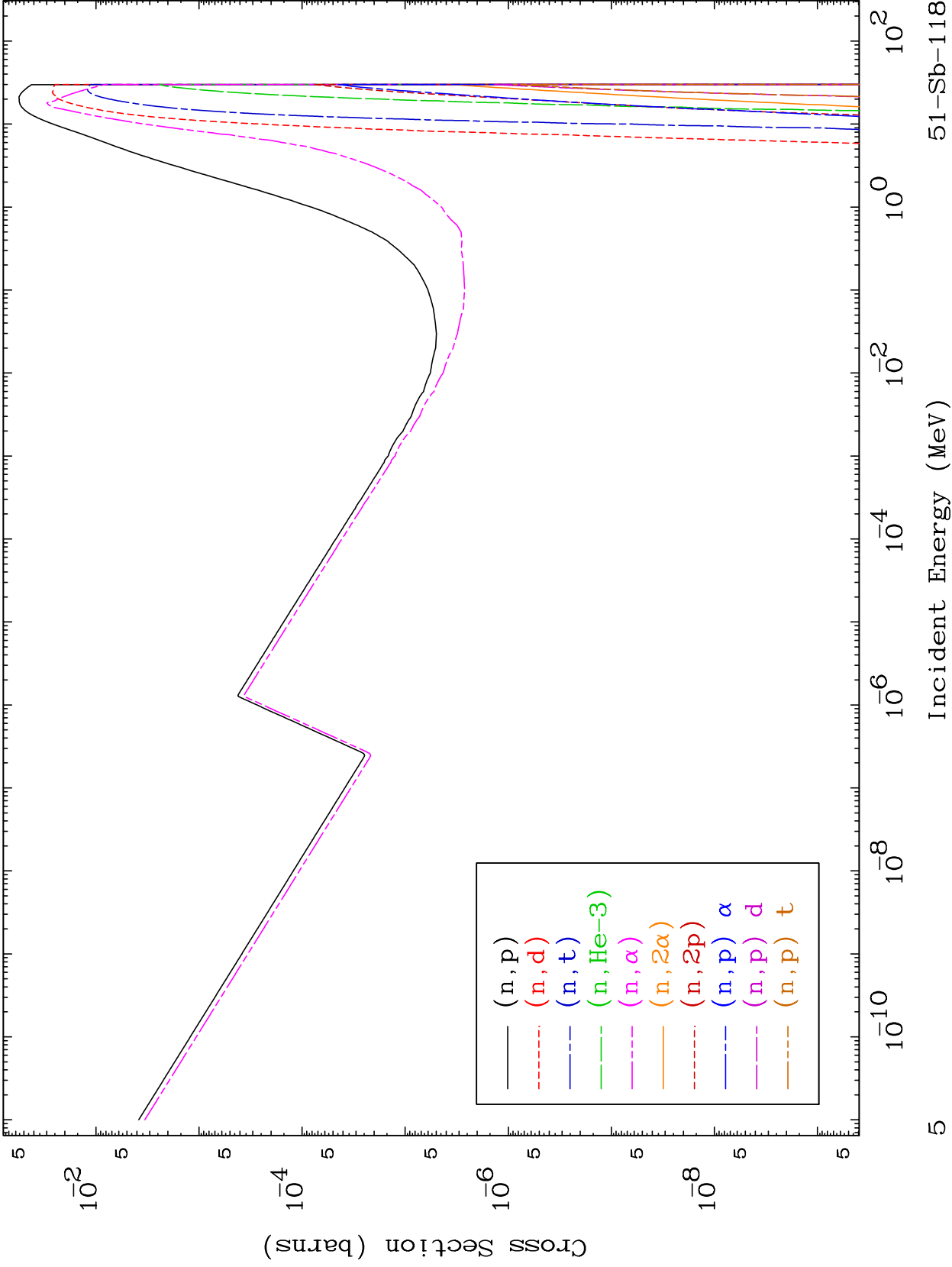


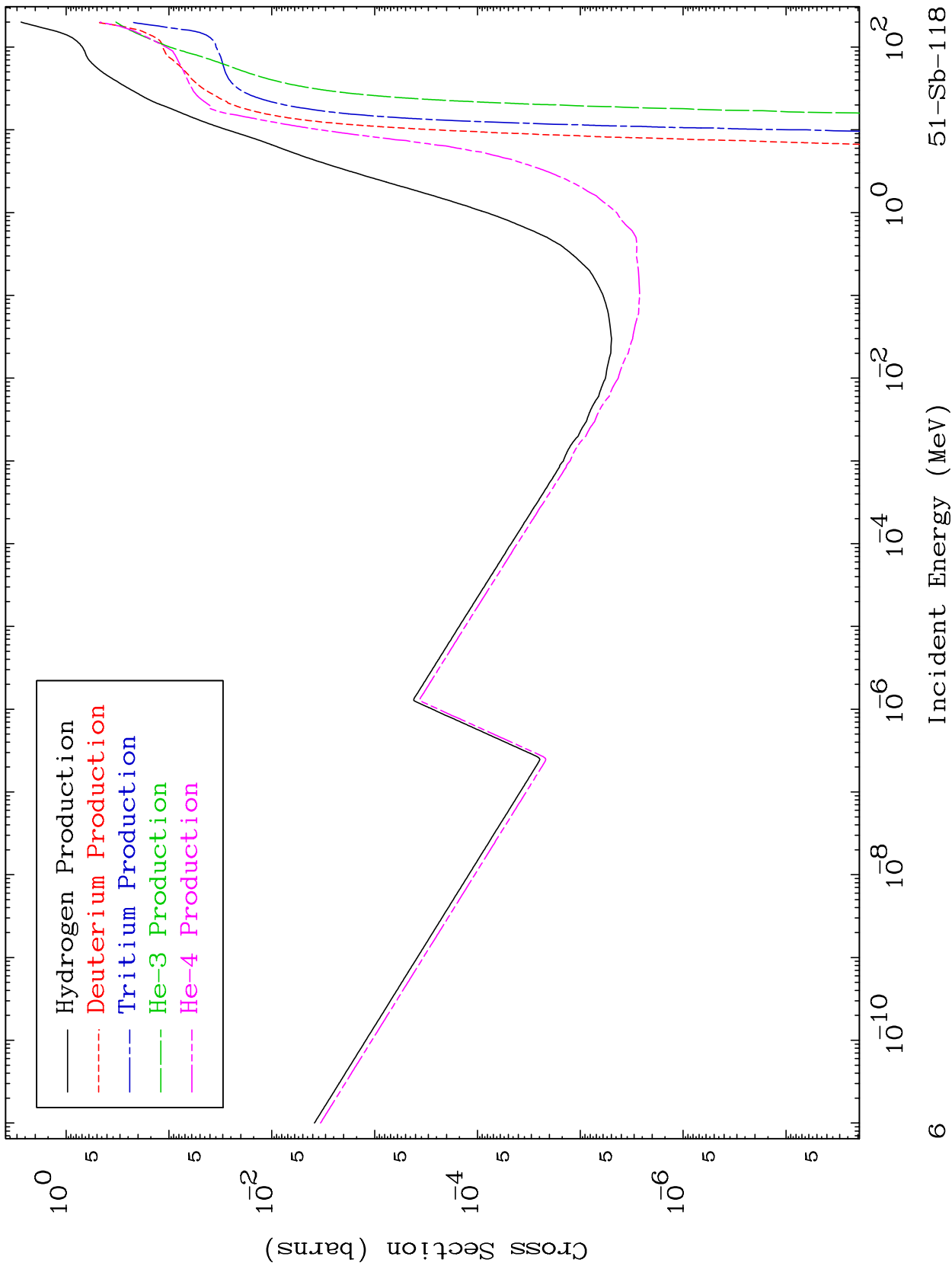


MAT 5117

Charged Particle
293 Kelvin Cross Sections

51-Sb-118

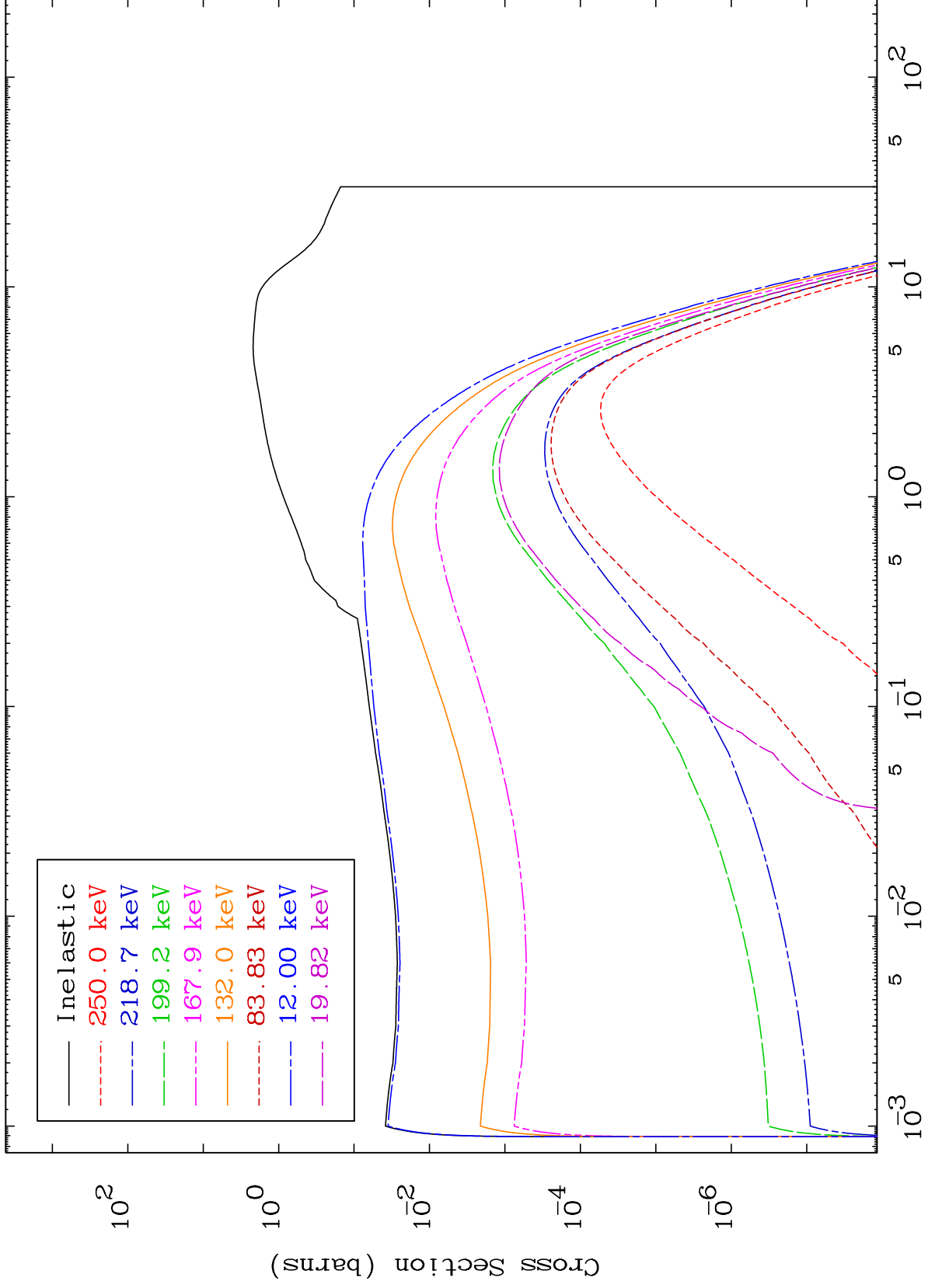




MAT 5117

(n,n') Level
293 Kelvin Cross Sections

51-Sb-118



Incident Energy (MeV)

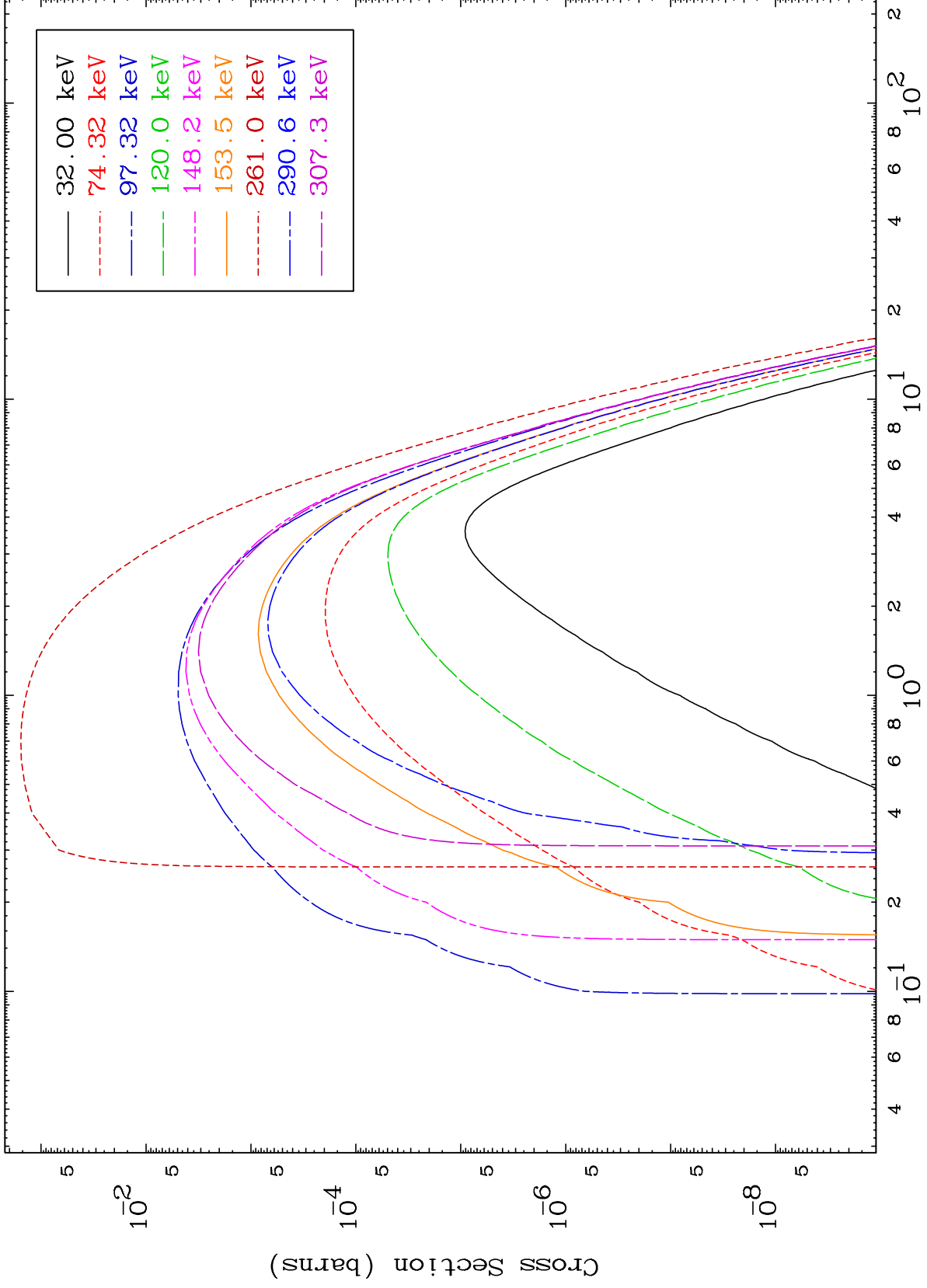
51-Sb-118

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MAT 5117

(n,n') Level
293 Kelvin Cross Sections

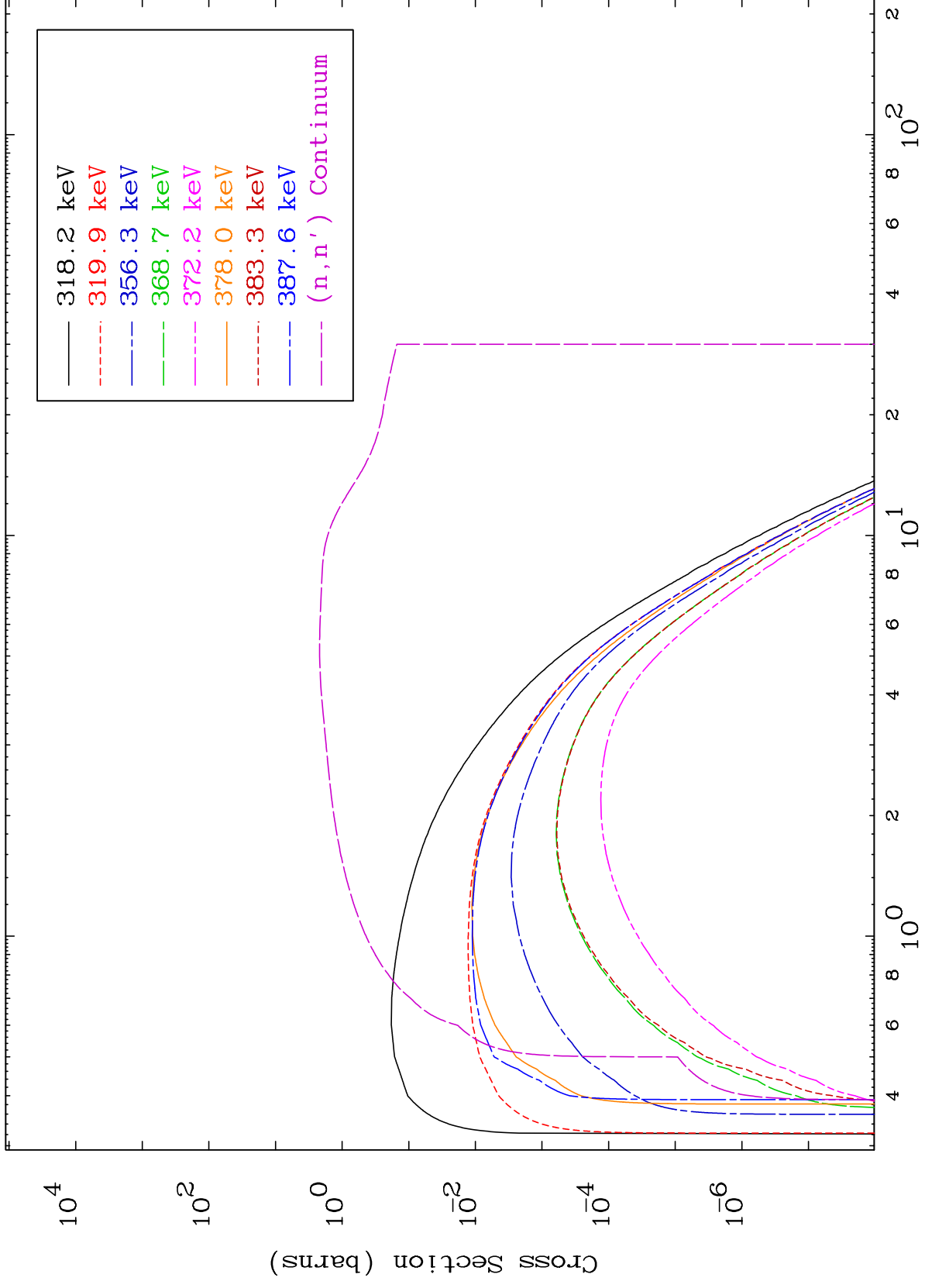
51-Sb-118



MAT 5117

(n,n') Level
293 Kelvin Cross Sections

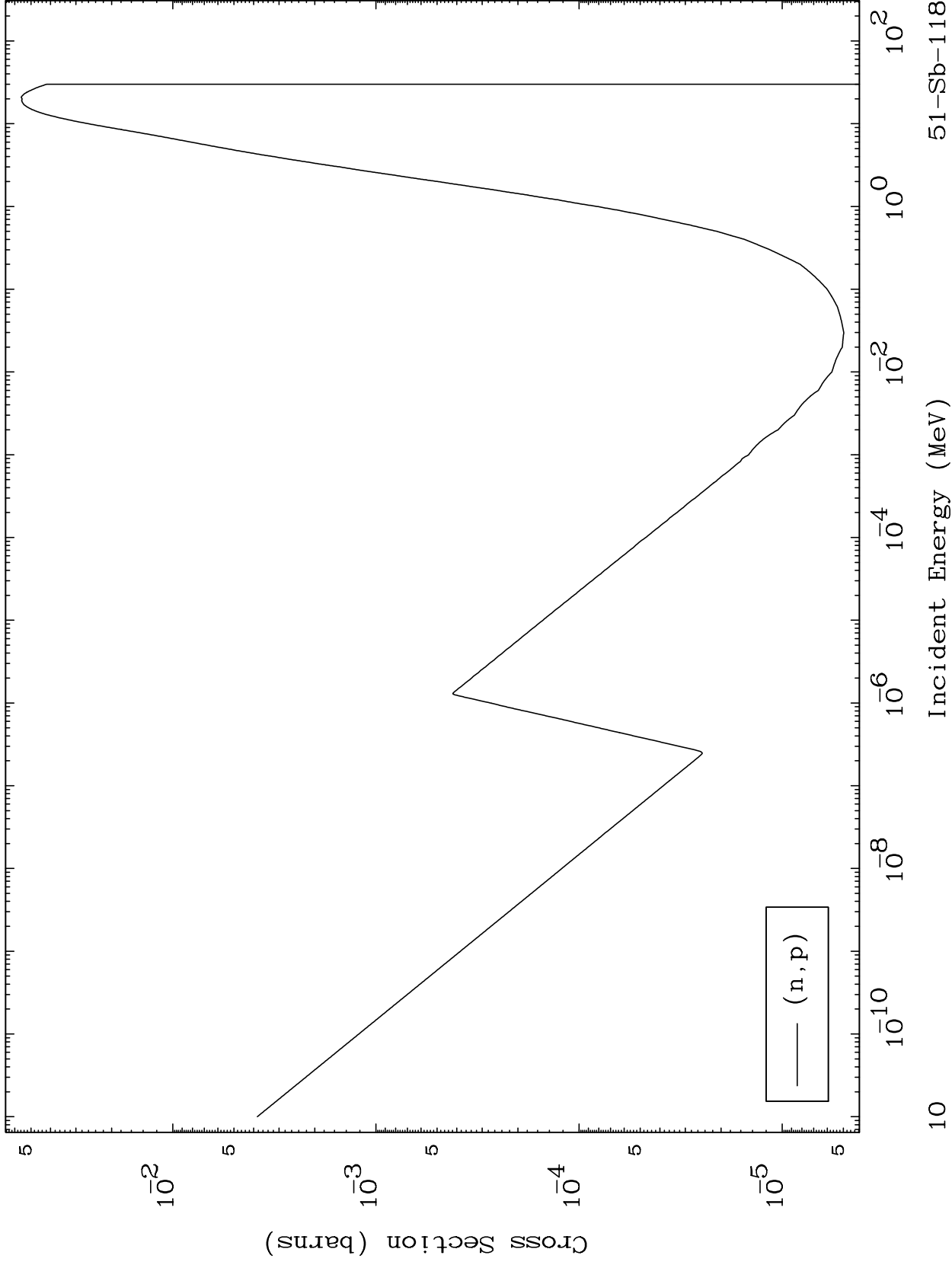
51-Sb-118



MAT 5117

(n,p) Levels
293 Kelvin Cross Sections

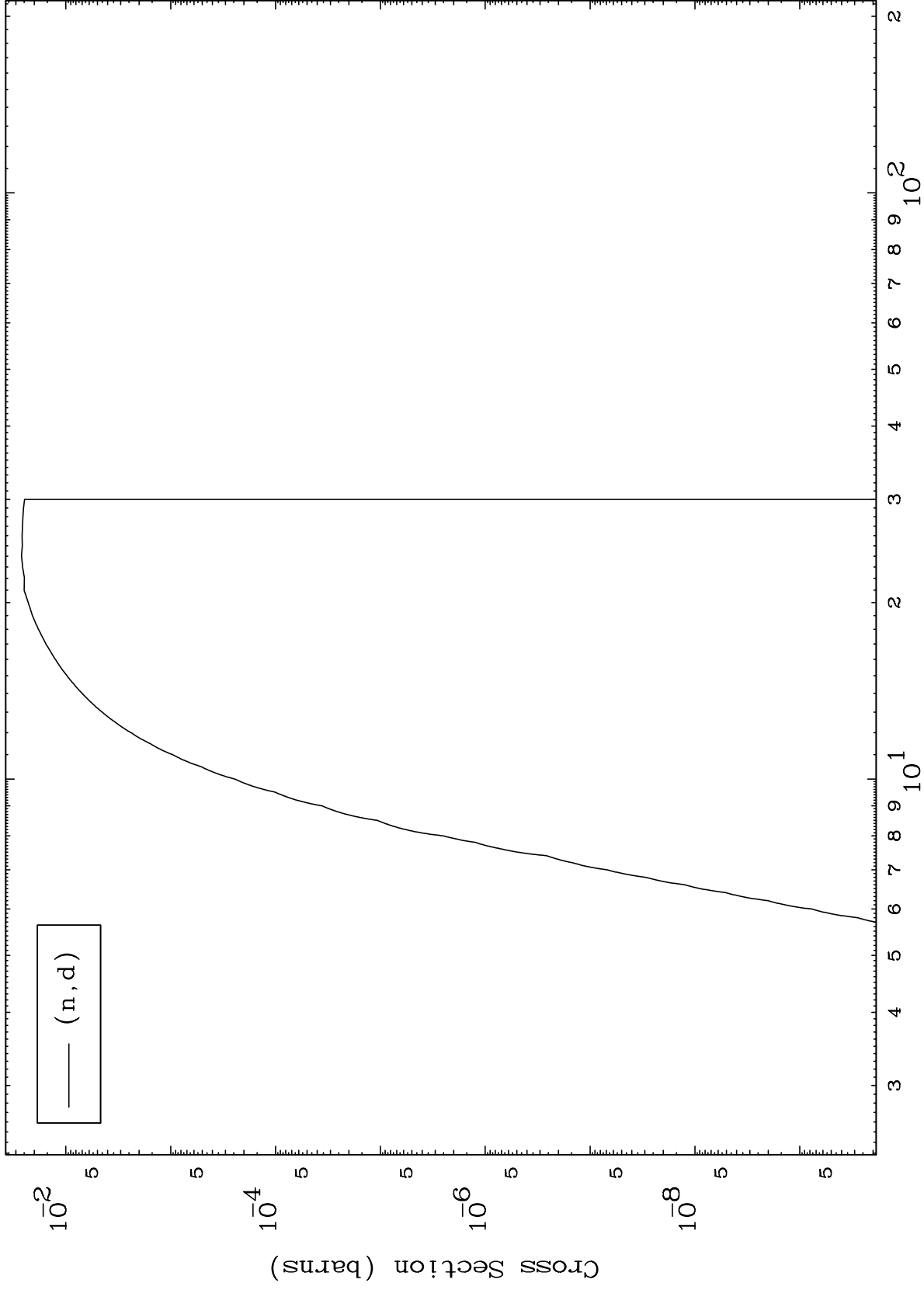
51-Sb-118



MAT 5117

(n,d) Levels
293 Kelvin Cross Sections

51-Sb-118



11

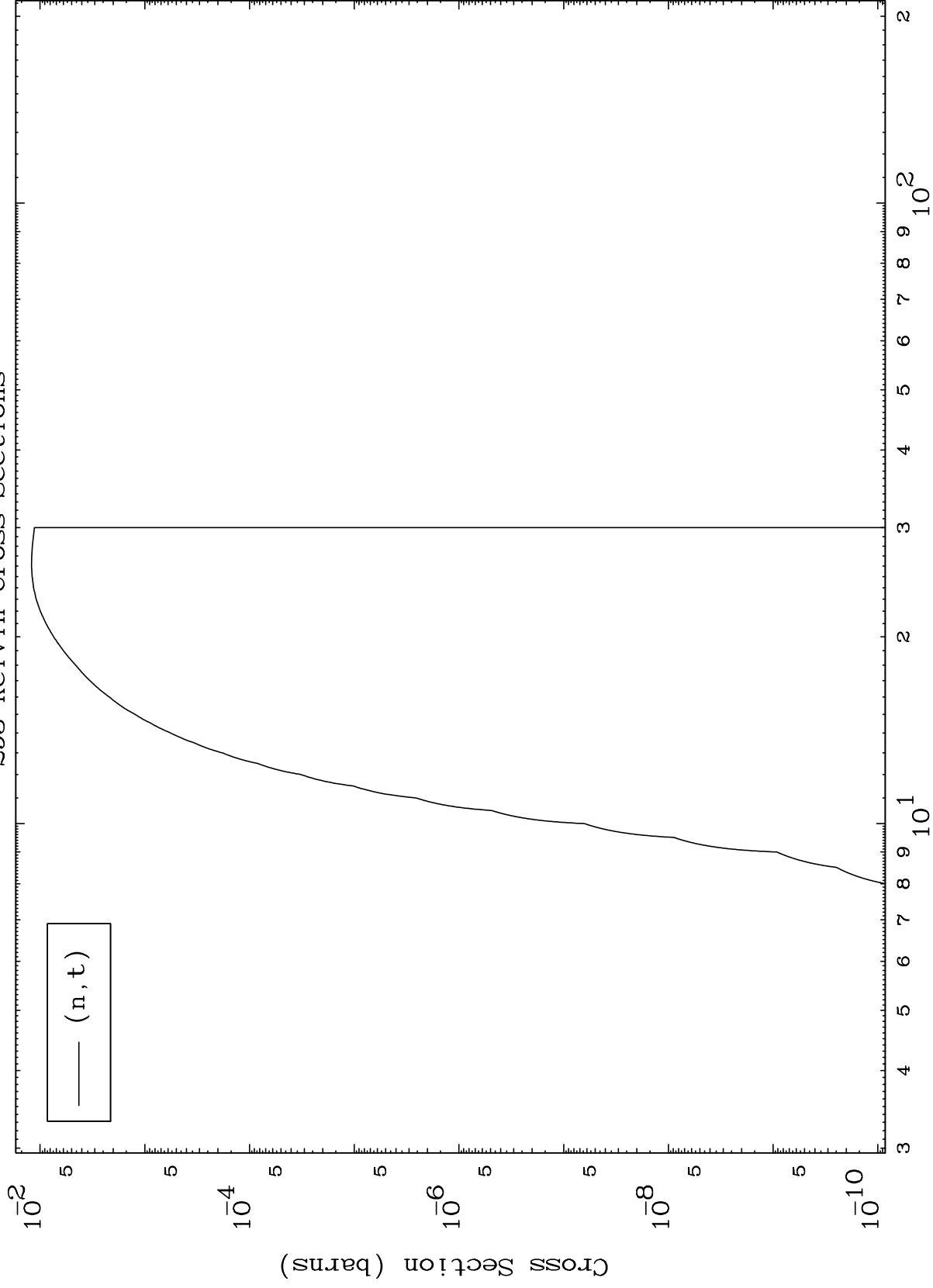
Incident Energy (MeV)

51-Sb-118

MAT 5117

(n,t) Levels
293 Kelvin Cross Sections

51-Sb-118



12

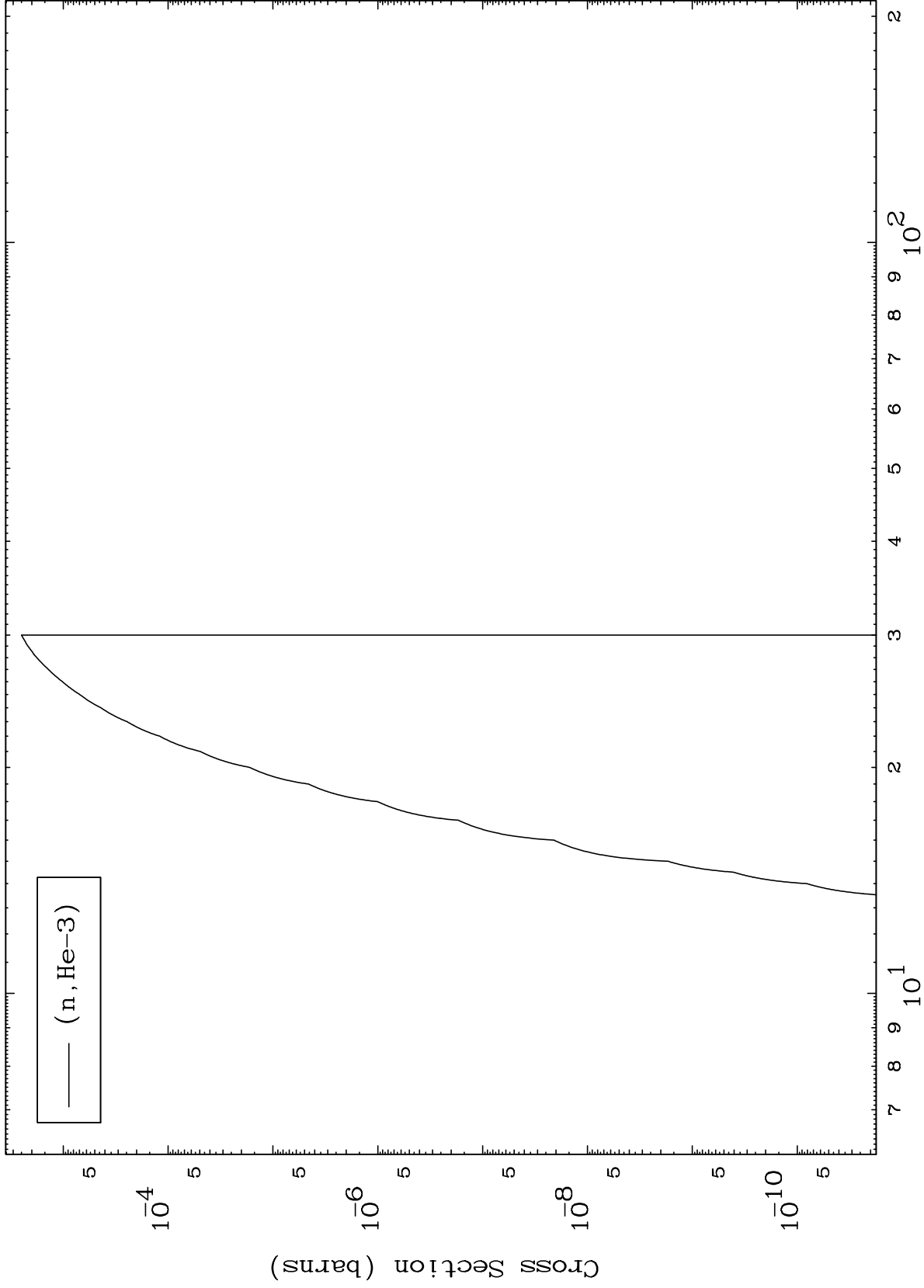
Incident Energy (MeV)

51-Sb-118

MAT 5117

(n,He3) Levels
293 Kelvin Cross Sections

51-Sb-118



13

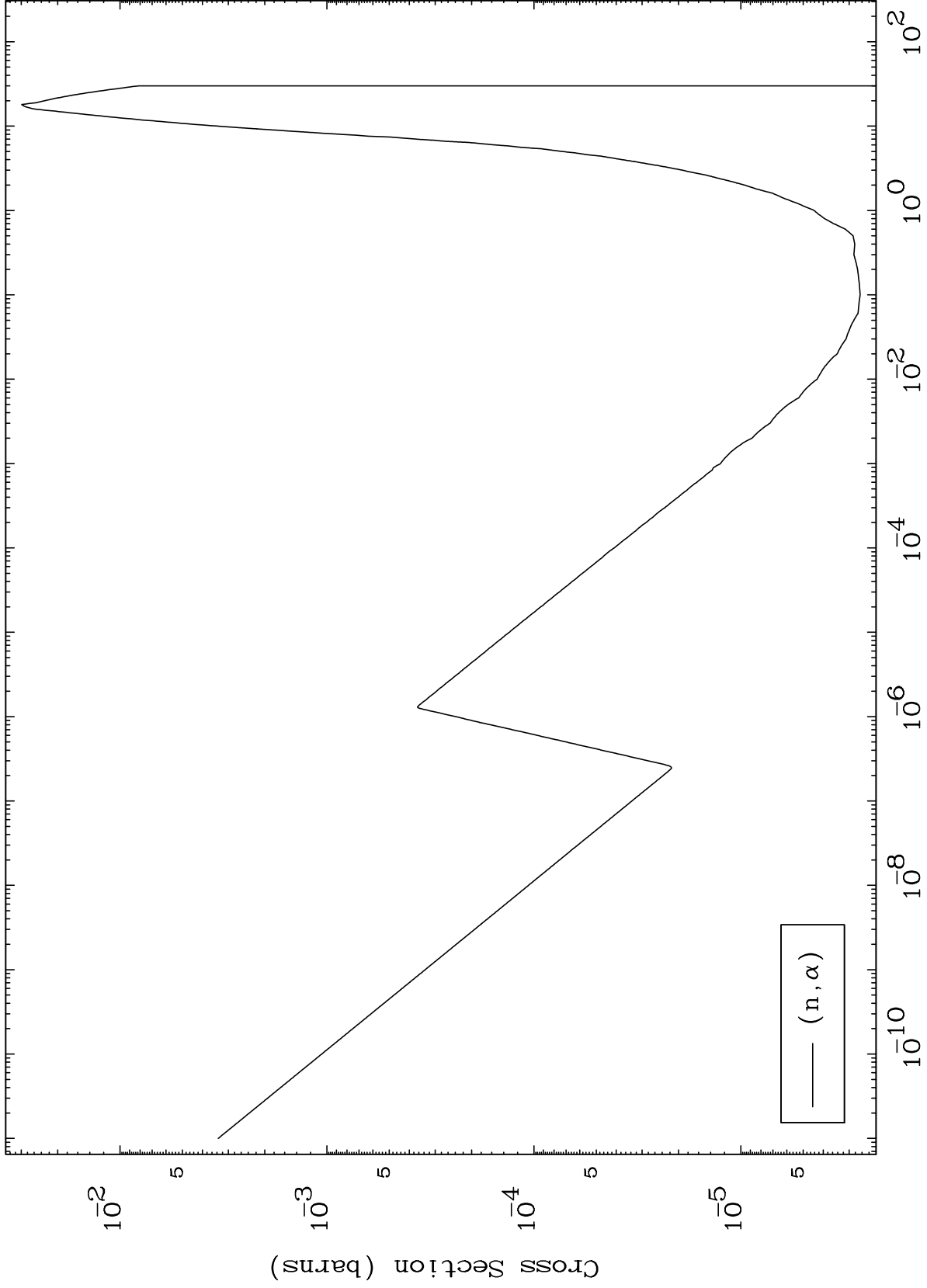
Incident Energy (MeV)

51-Sb-118

MAT 5117

(n,α) Levels
293 Kelvin Cross Sections

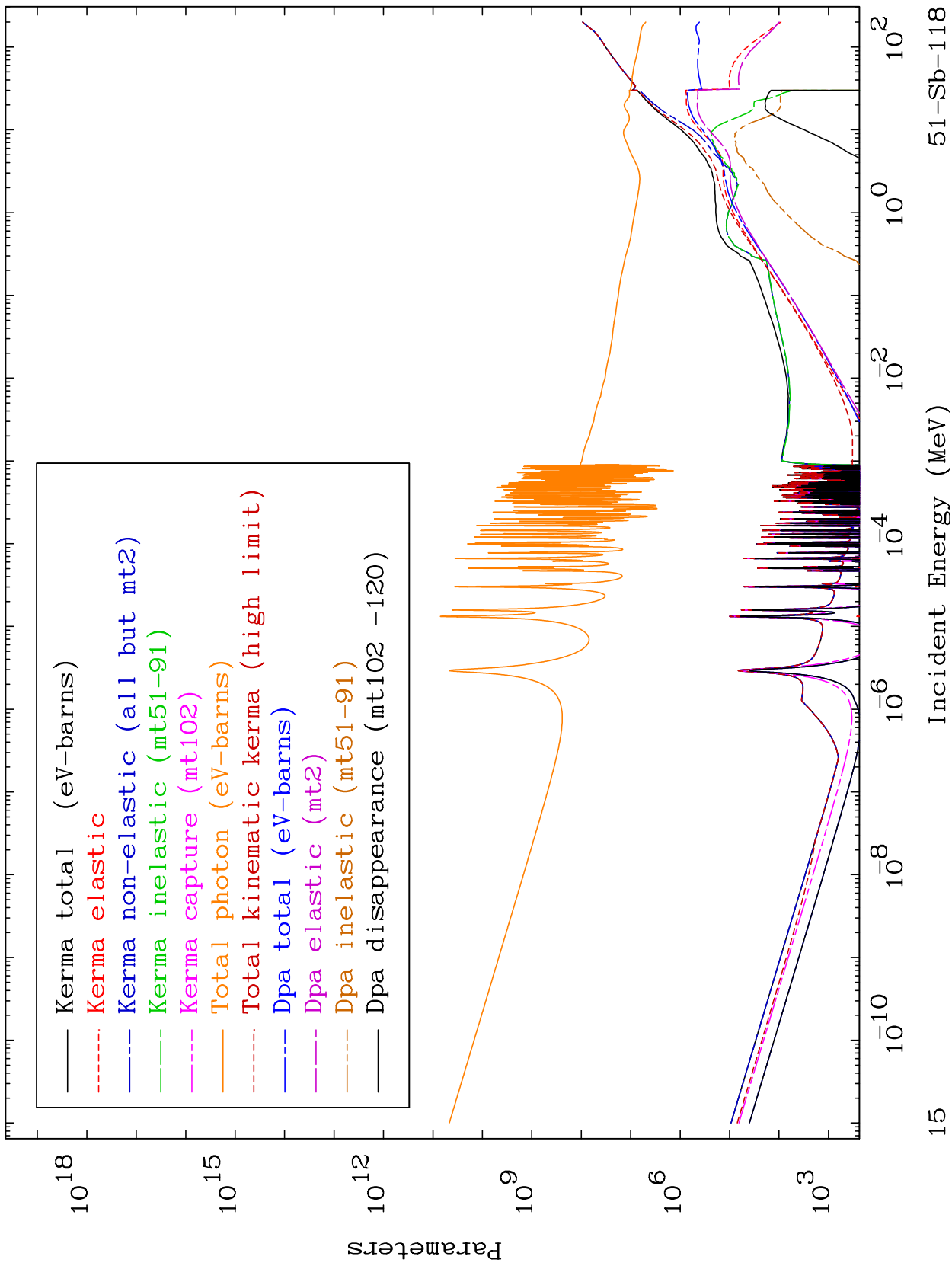
51-Sb-118



14

Incident Energy (MeV)

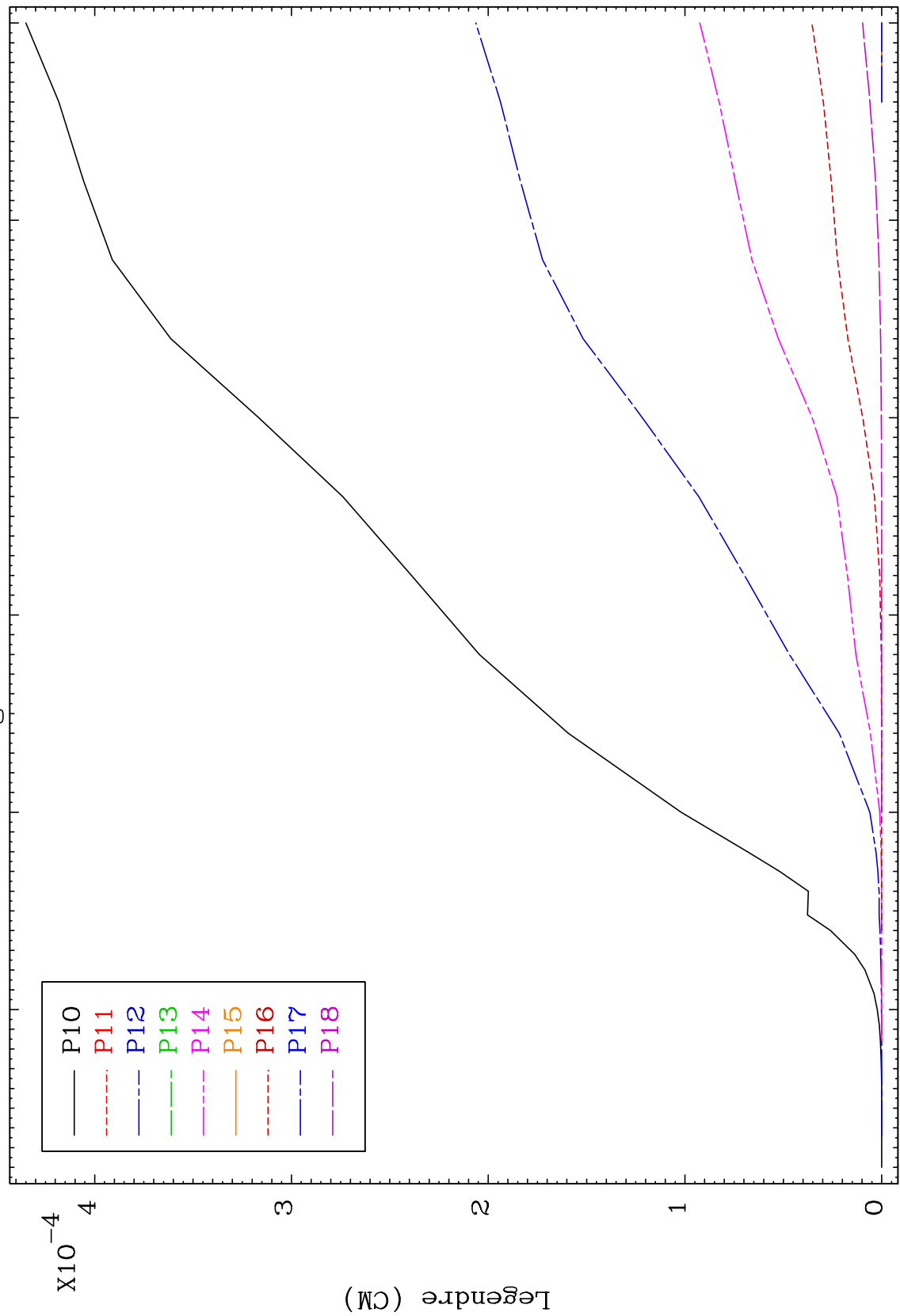
51-Sb-118



MAT 5117

Elastic Legendre Coefficients

51-Sb-118



$\times 10^{-4}$

Legendre (CM)

- P10
- P11
- P12
- P13
- P14
- P15
- P16
- P17
- P18

17

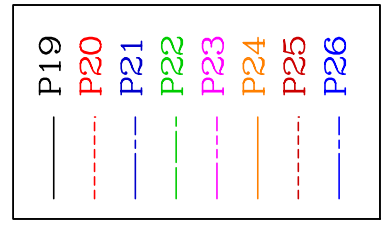
Incident Energy (MeV)

51-Sb-118

MAT 5117

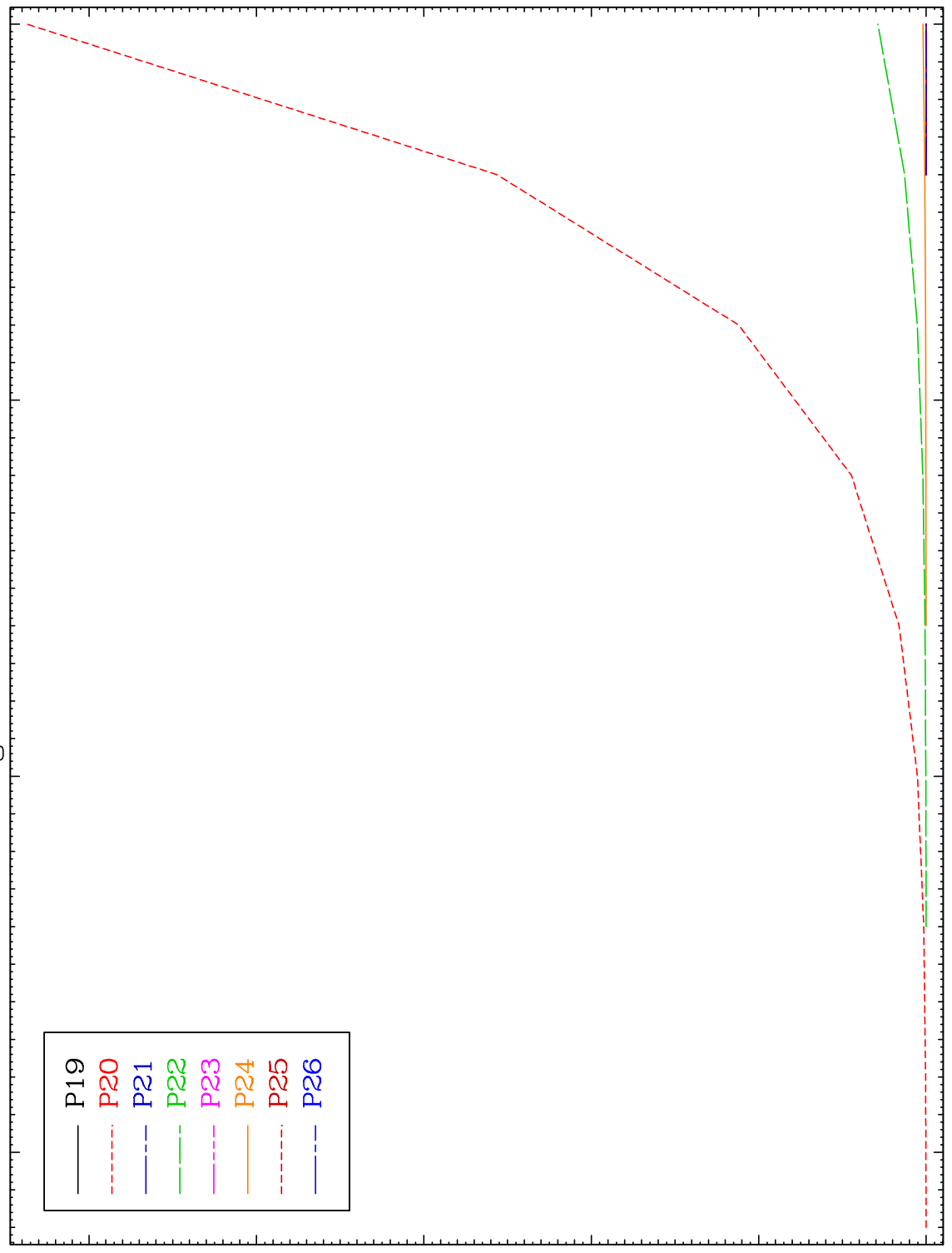
Elastic Legendre Coefficients

51-Sb-118



$\times 10^{-7}$

Legendre (CM)



18

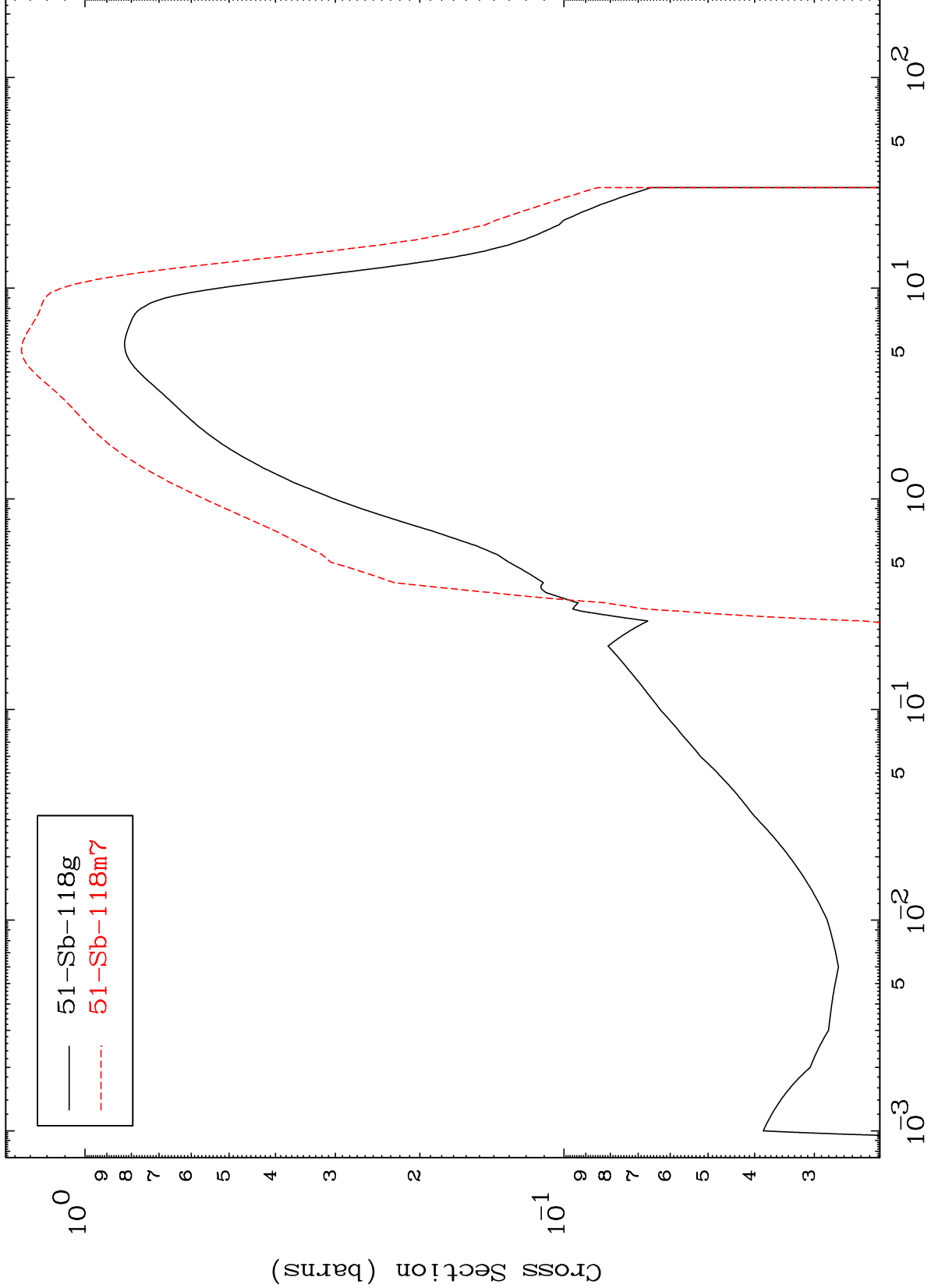
Incident Energy (MeV)

51-Sb-118

MAT 5117

51-Sb-118

Inelastic
Radionuclide Production Cross Section



51-Sb-118

Incident Energy (MeV)

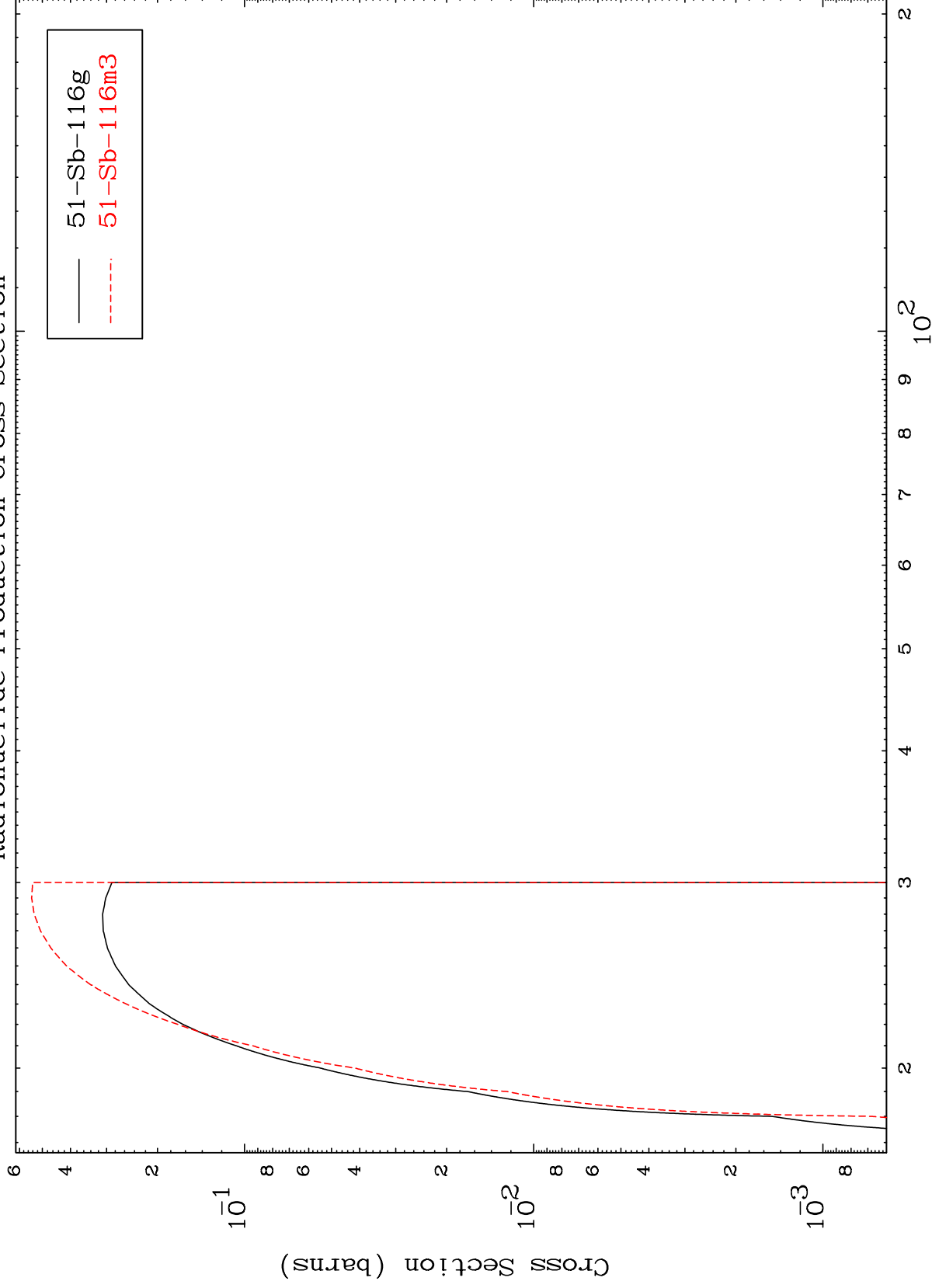
19

MAT 5117

(n,3n)

51-Sb-118

Radionuclide Production Cross Section



20

Incident Energy (MeV)

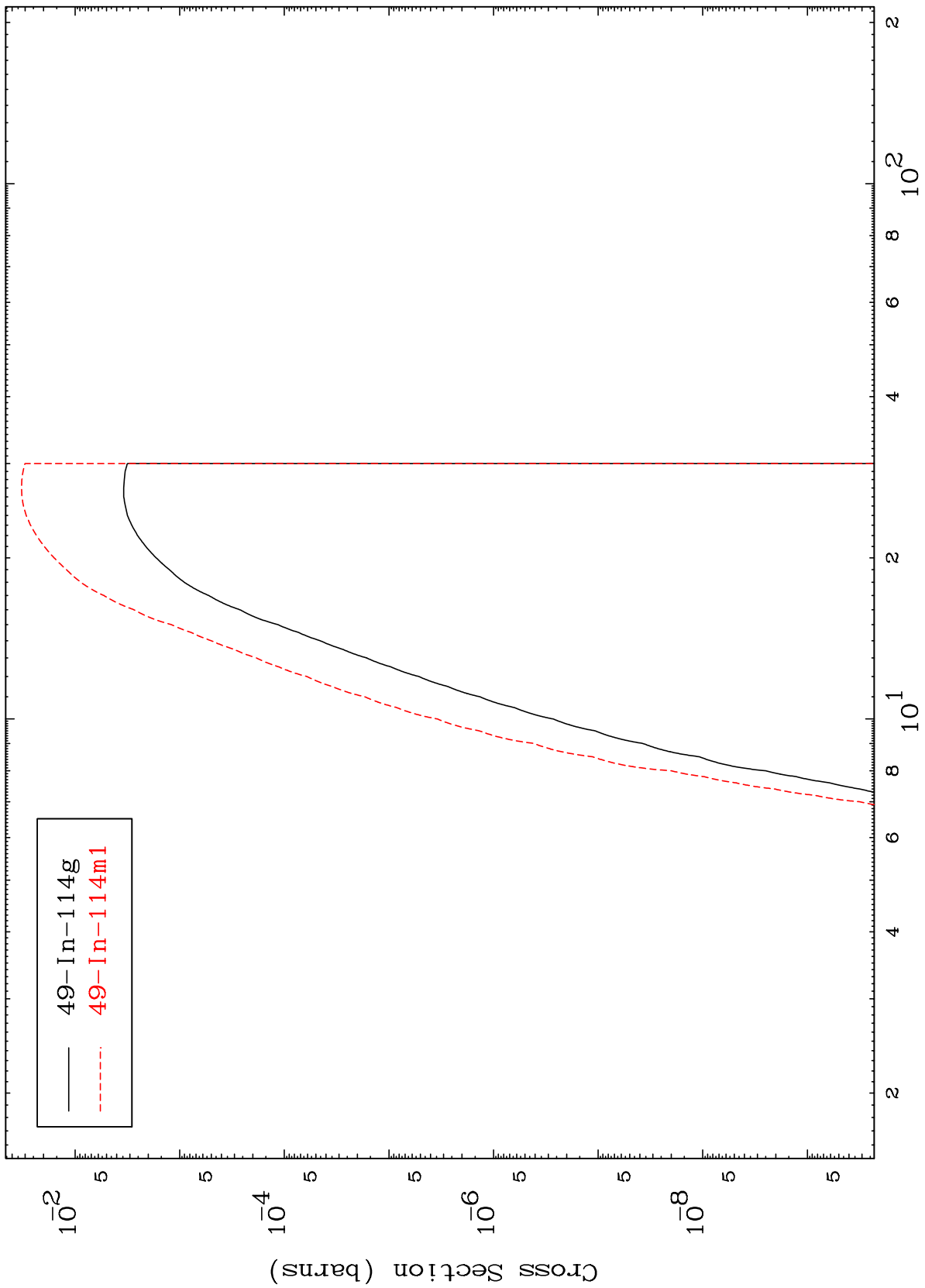
51-Sb-118

MAT 5117

(n,n') α

51-Sb-118

Radionuclide Production Cross Section



21

Incident Energy (MeV)

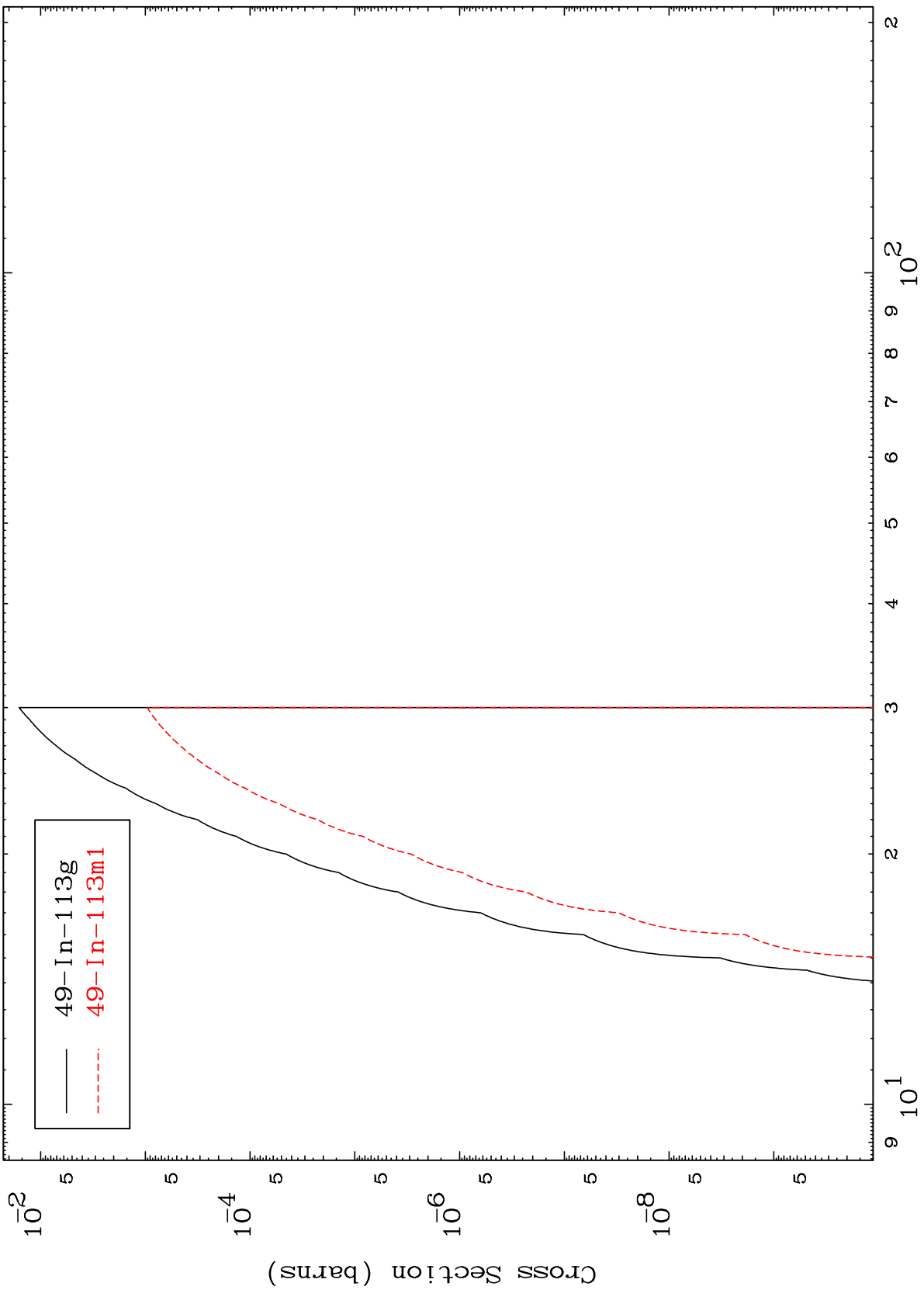
51-Sb-118

MAT 5117

(n,2n) α

51-Sb-118

Radionuclide Production Cross Section



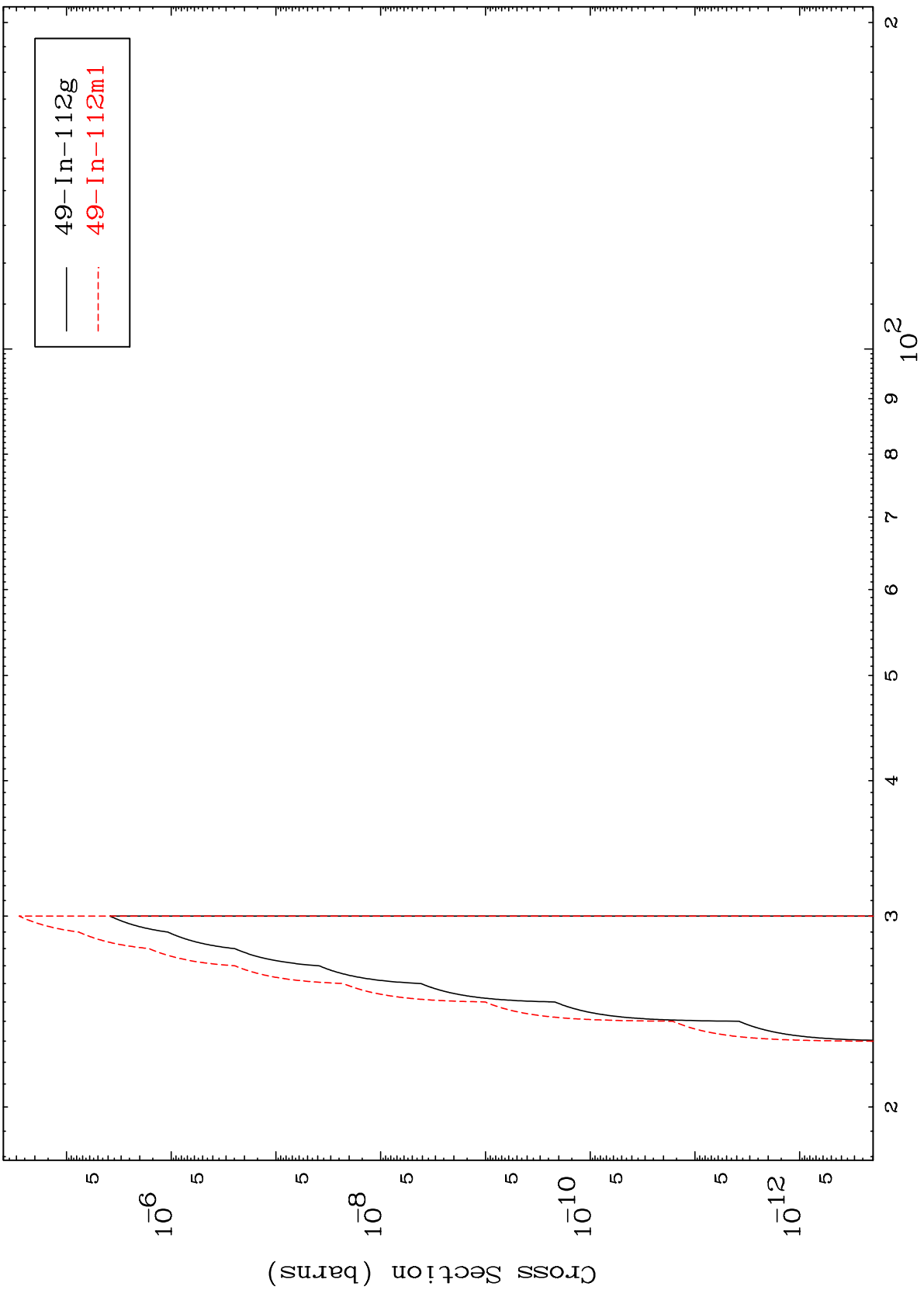
49-In-113g
49-In-113m1

22

Incident Energy (MeV)

51-Sb-118

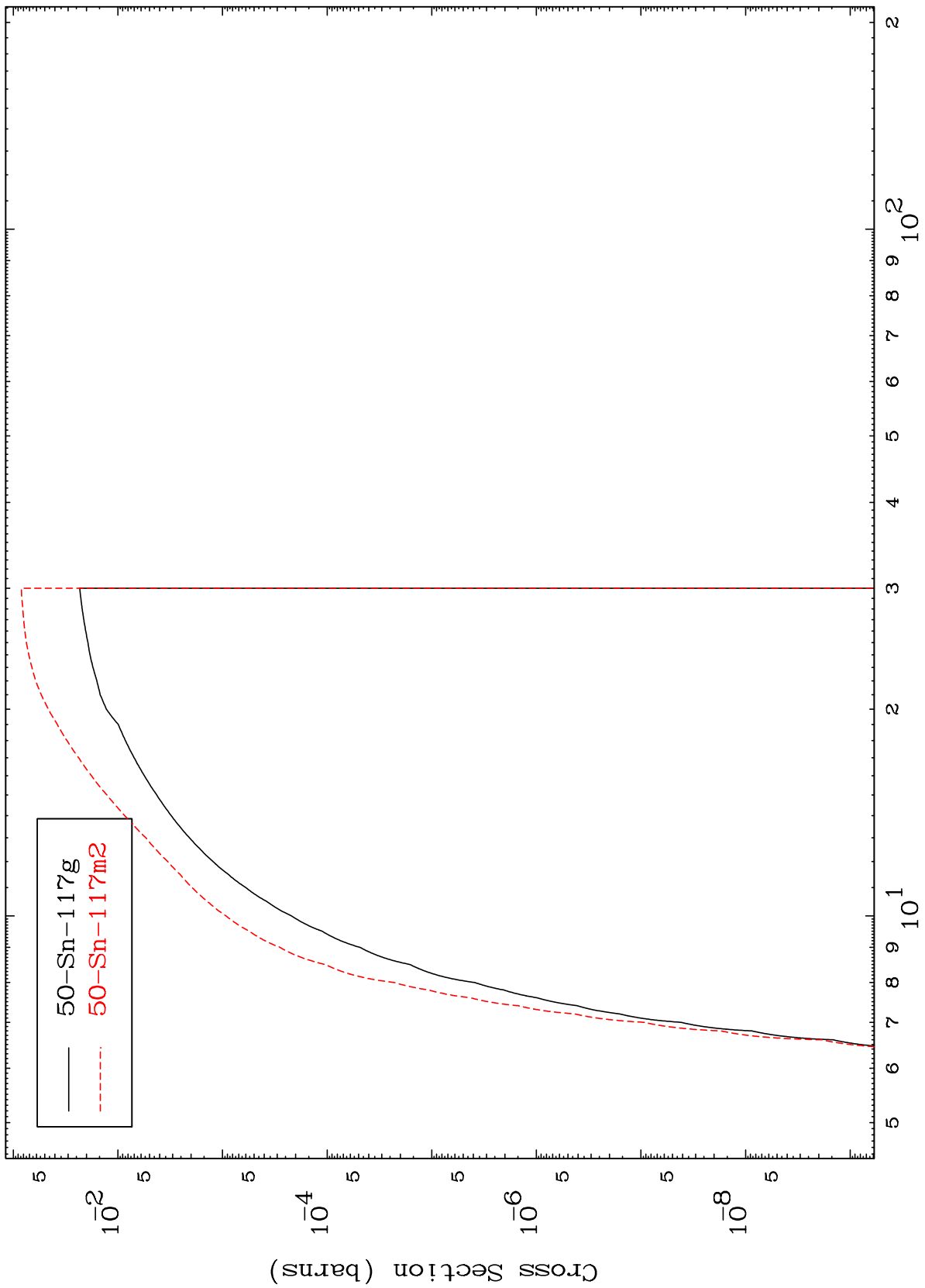
Radionuclide Production Cross Section



MAT 5117

51-Sb-118

(n,n') p
Radionuclide Production Cross Section



51-Sb-118

Incident Energy (MeV)

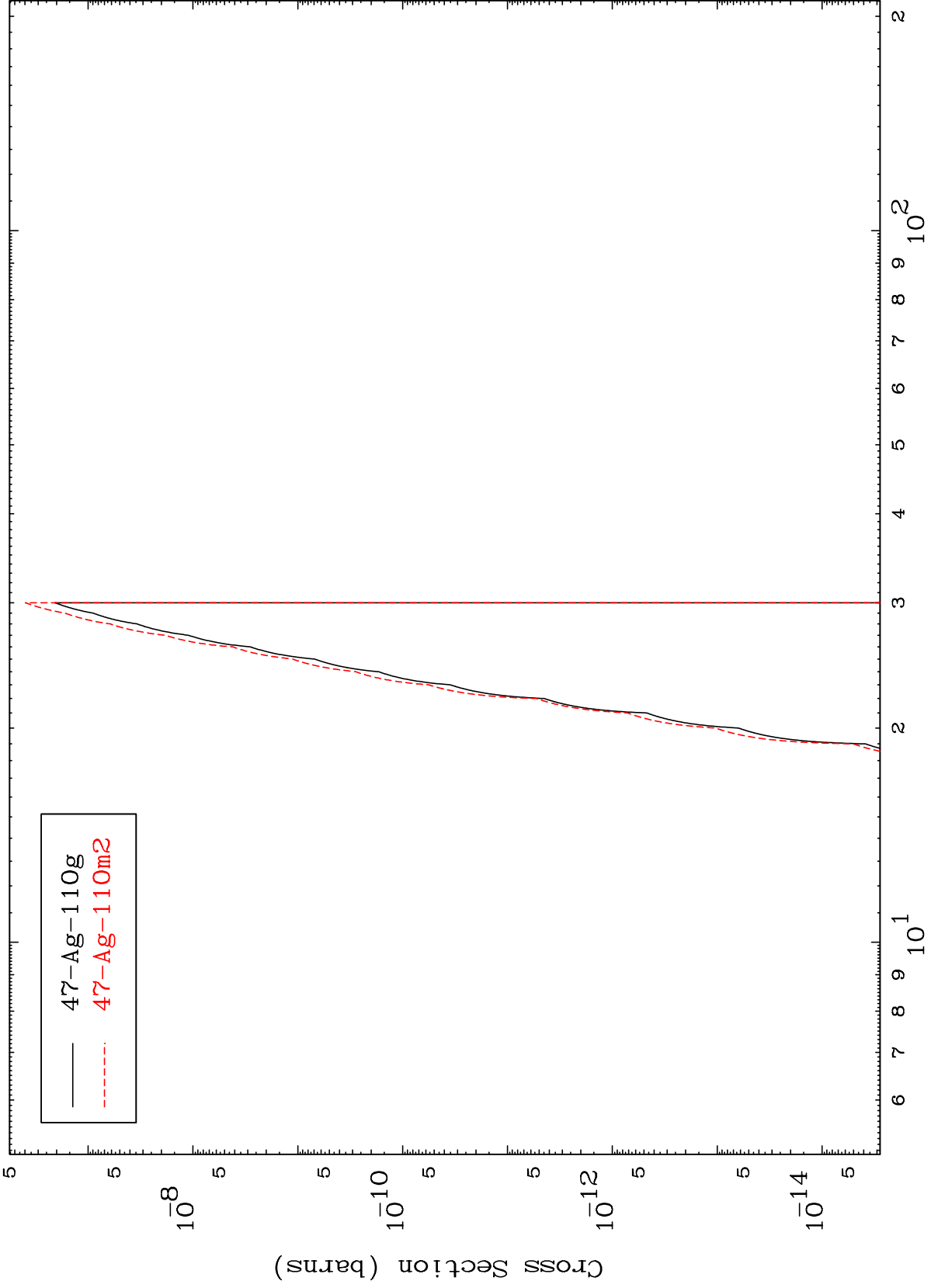
24

MAT 51117

(n,n') 2α

51-Sb-118

Radionuclide Production Cross Section



25

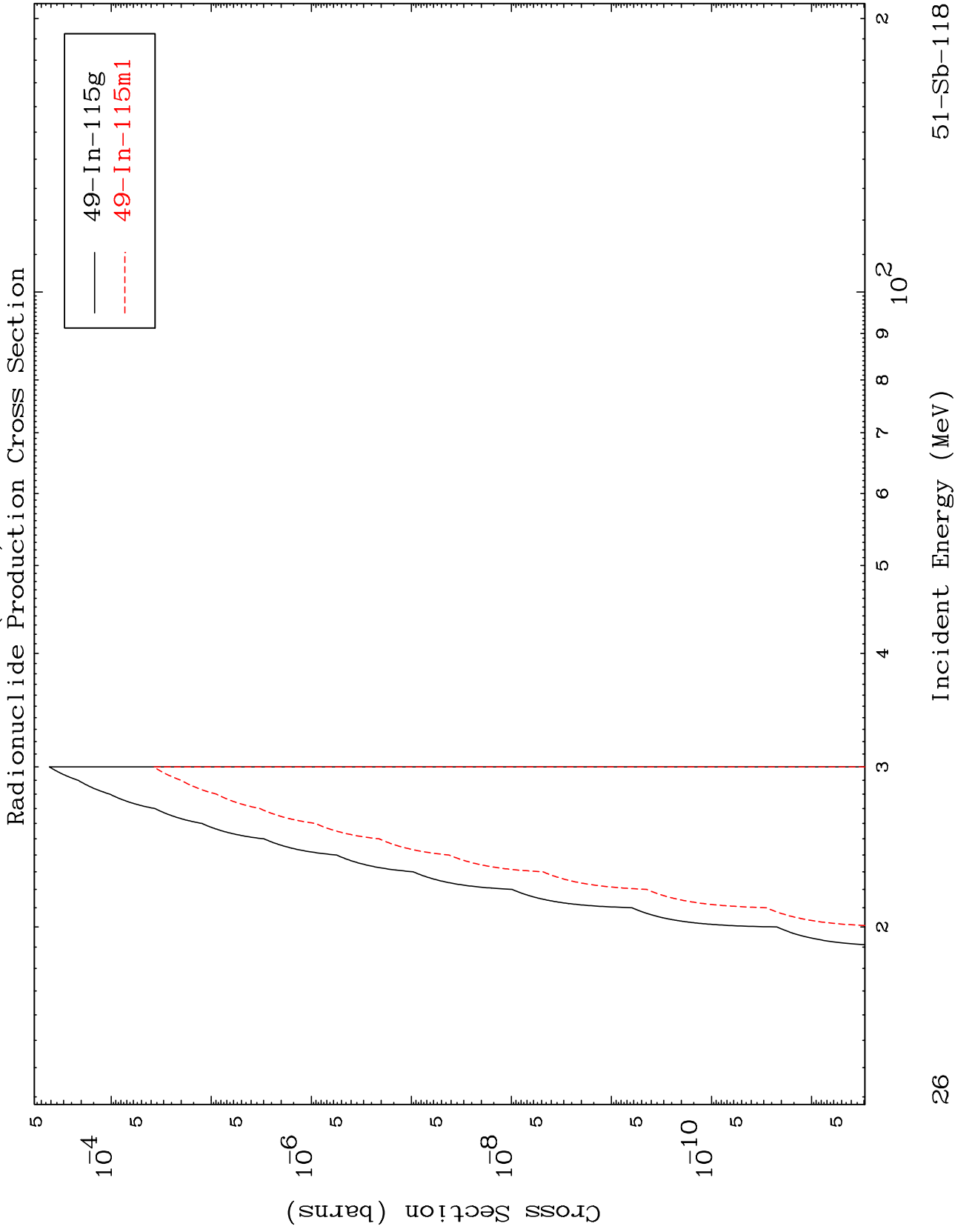
Incident Energy (MeV)

51-Sb-118

MAT 51117

(n,n') He-3

51-Sb-118



26

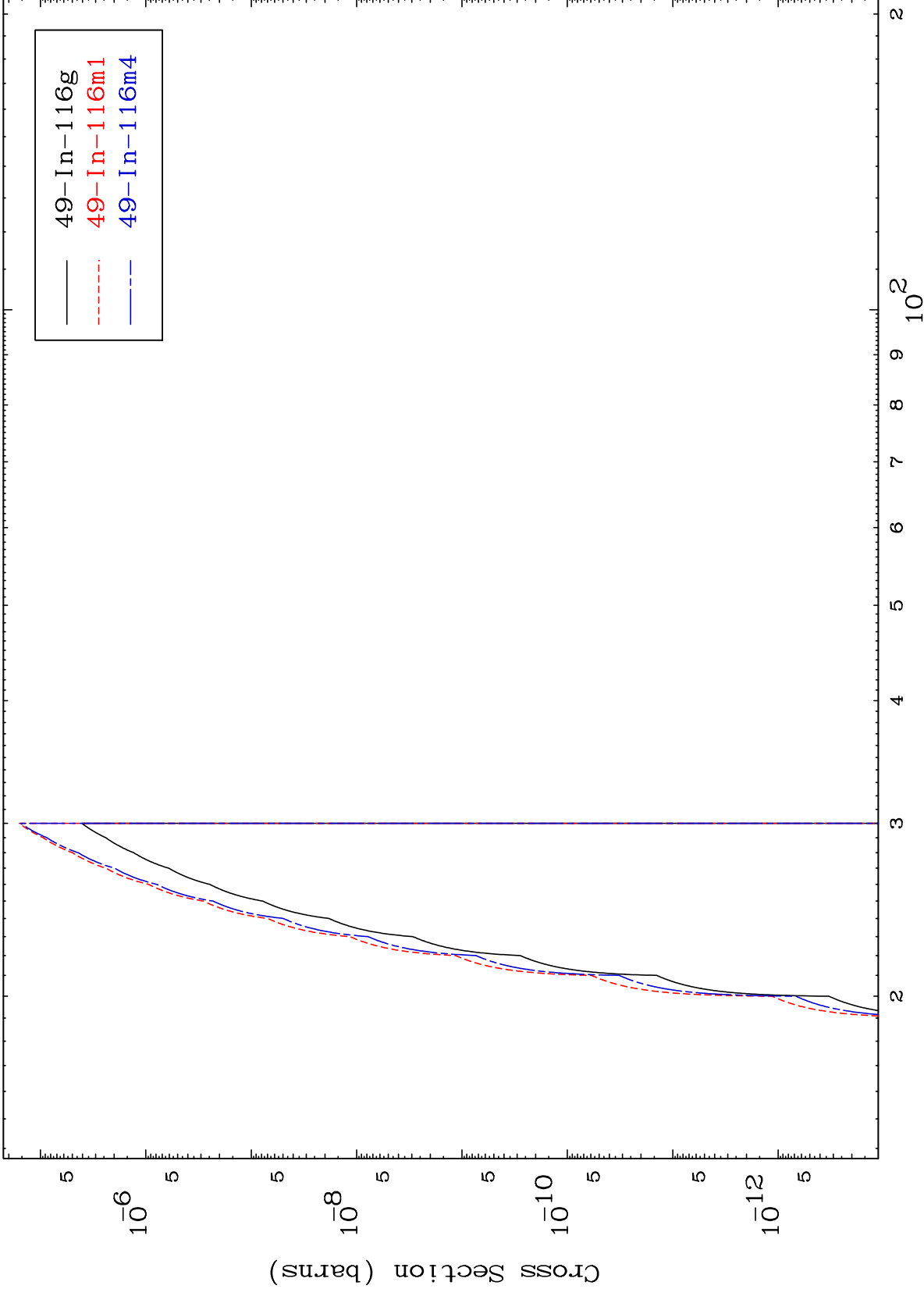
51-Sb-118

MAT 5117

(n,2n) p

51-Sb-118

Radionuclide Production Cross Section



27

Incident Energy (MeV)

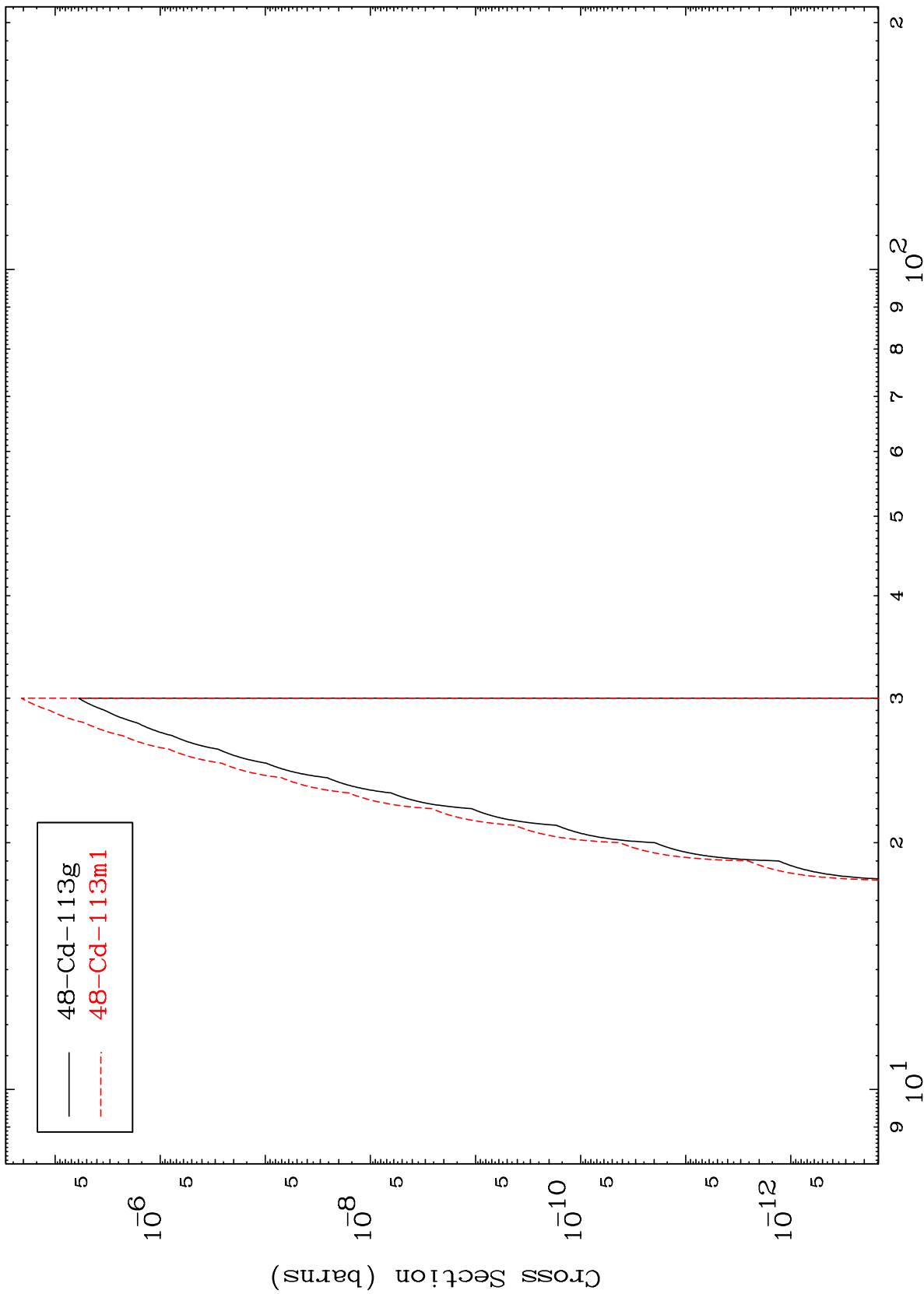
51-Sb-118

MAT 5117

(n,n') p α

51-Sb-118

Radionuclide Production Cross Section



28

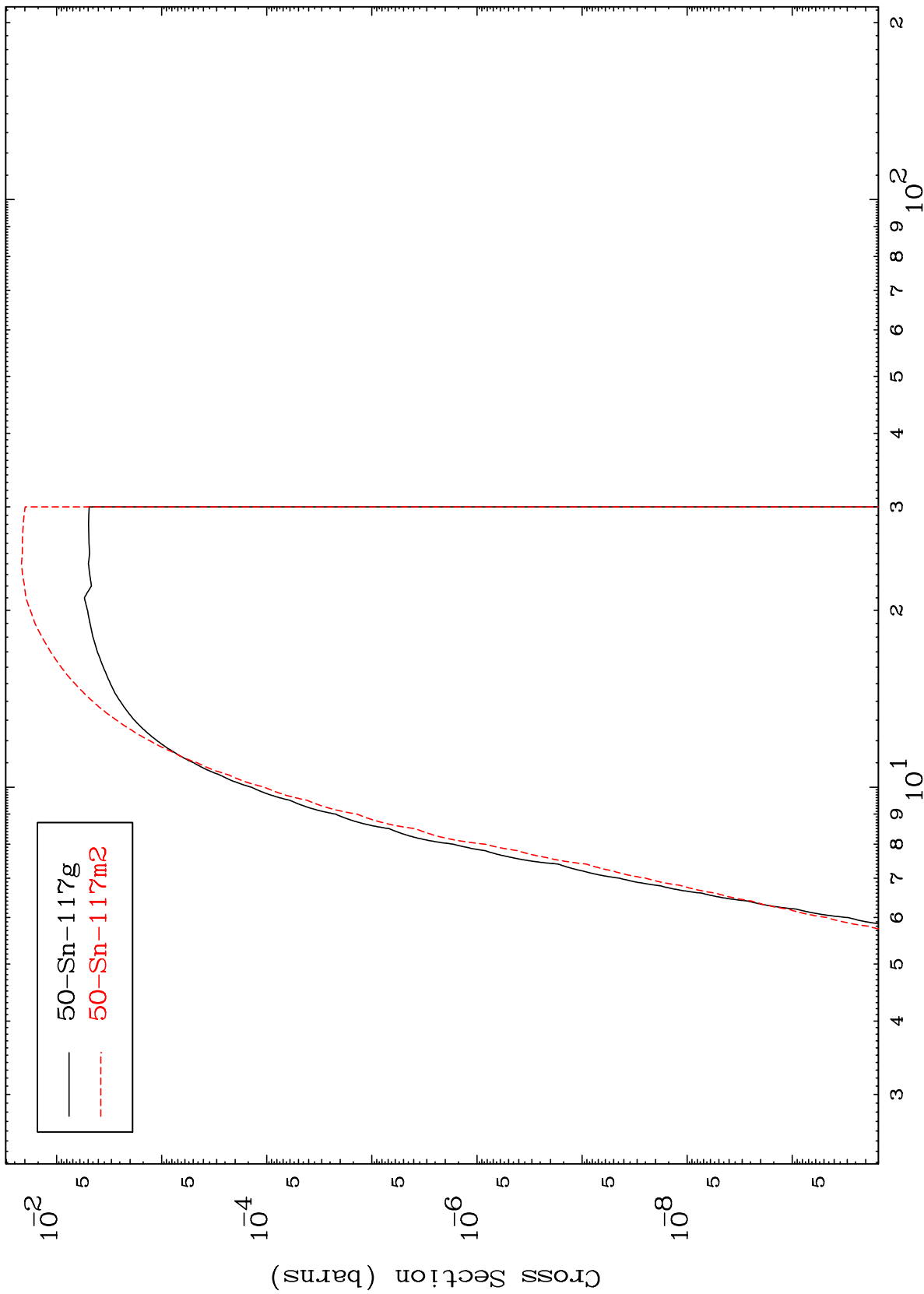
Incident Energy (MeV)

51-Sb-118

MAT 5117

51-Sb-118

(n,d)
Radionuclide Production Cross Section

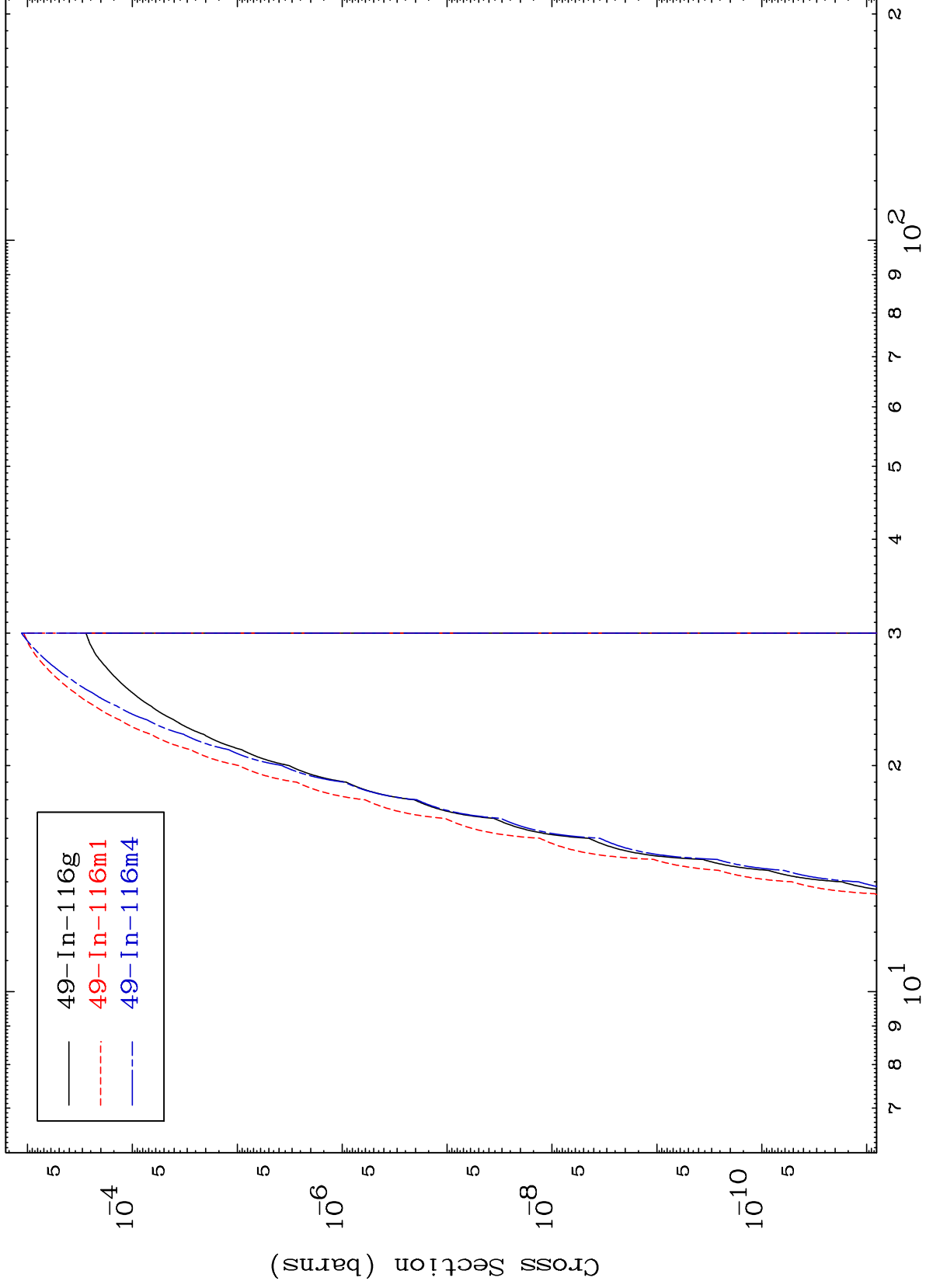


29

Incident Energy (MeV)

51-Sb-118

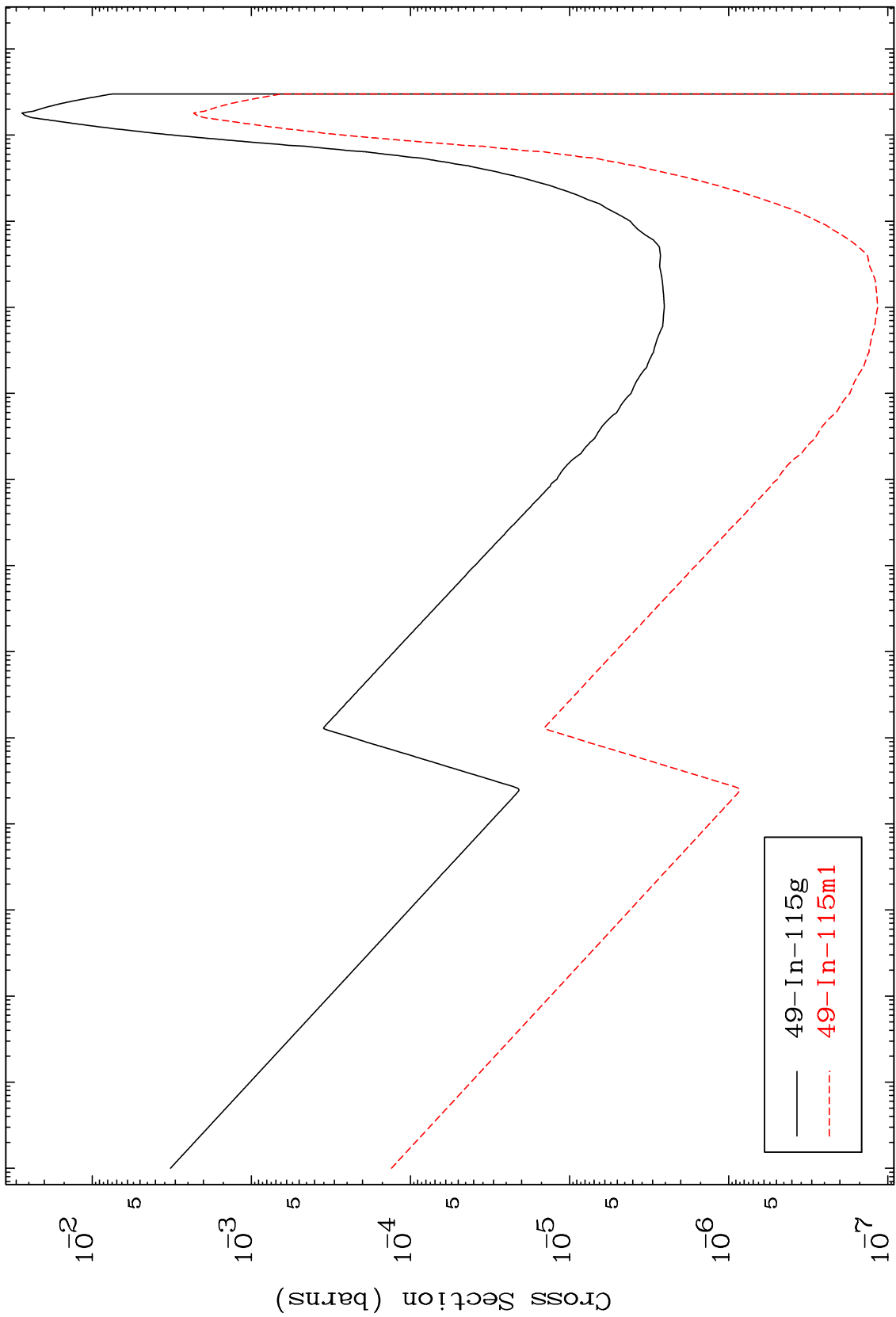
Radionuclide Production Cross Section (n,He-3)



MAT 5117

51-Sb-118

Radionuclide Production Cross Section
(n, α)



31

51-Sb-118

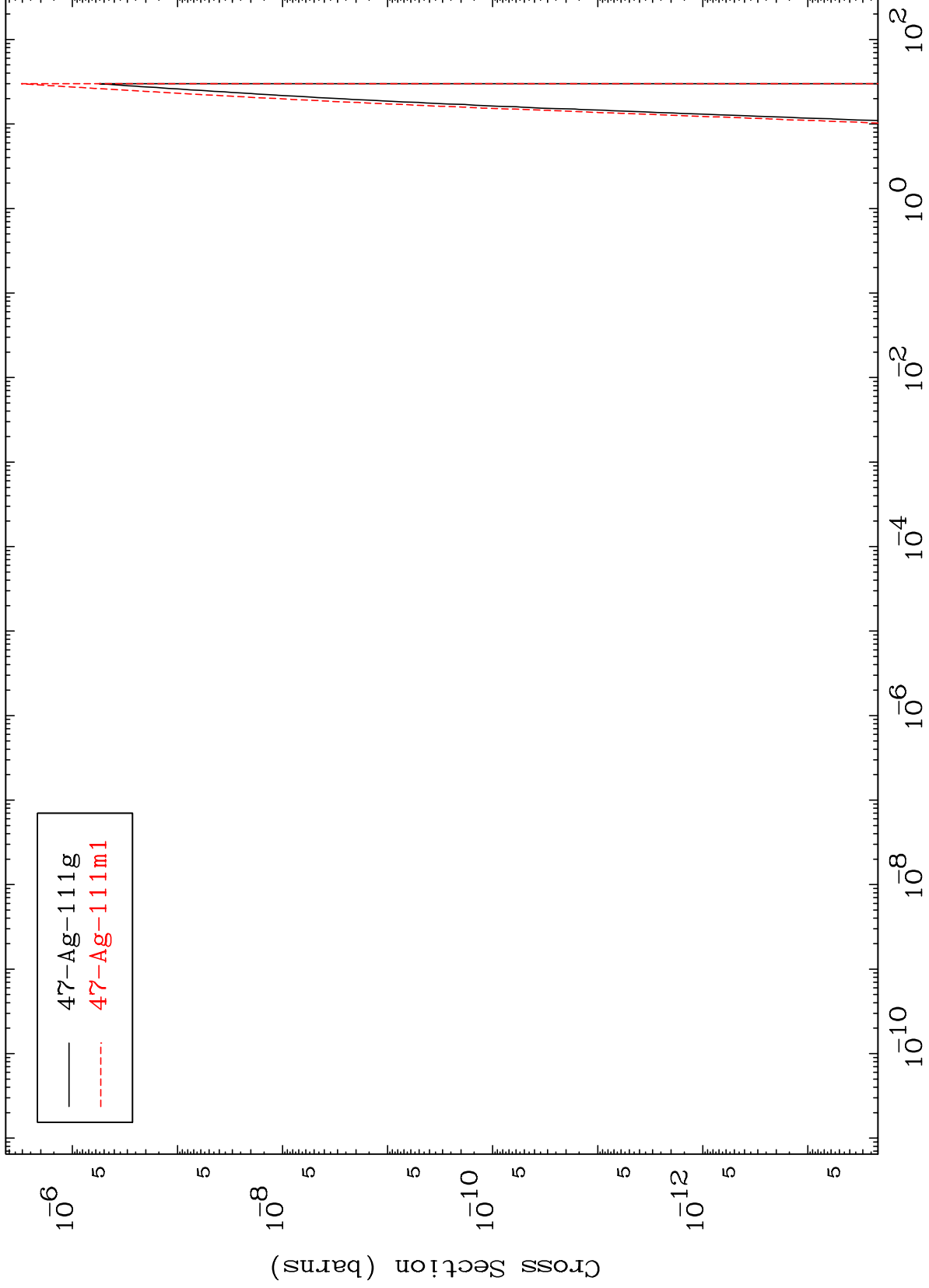
Incident Energy (MeV)

MAT 5117

(n,2α)

51-Sb-118

Radionuclide Production Cross Section



32

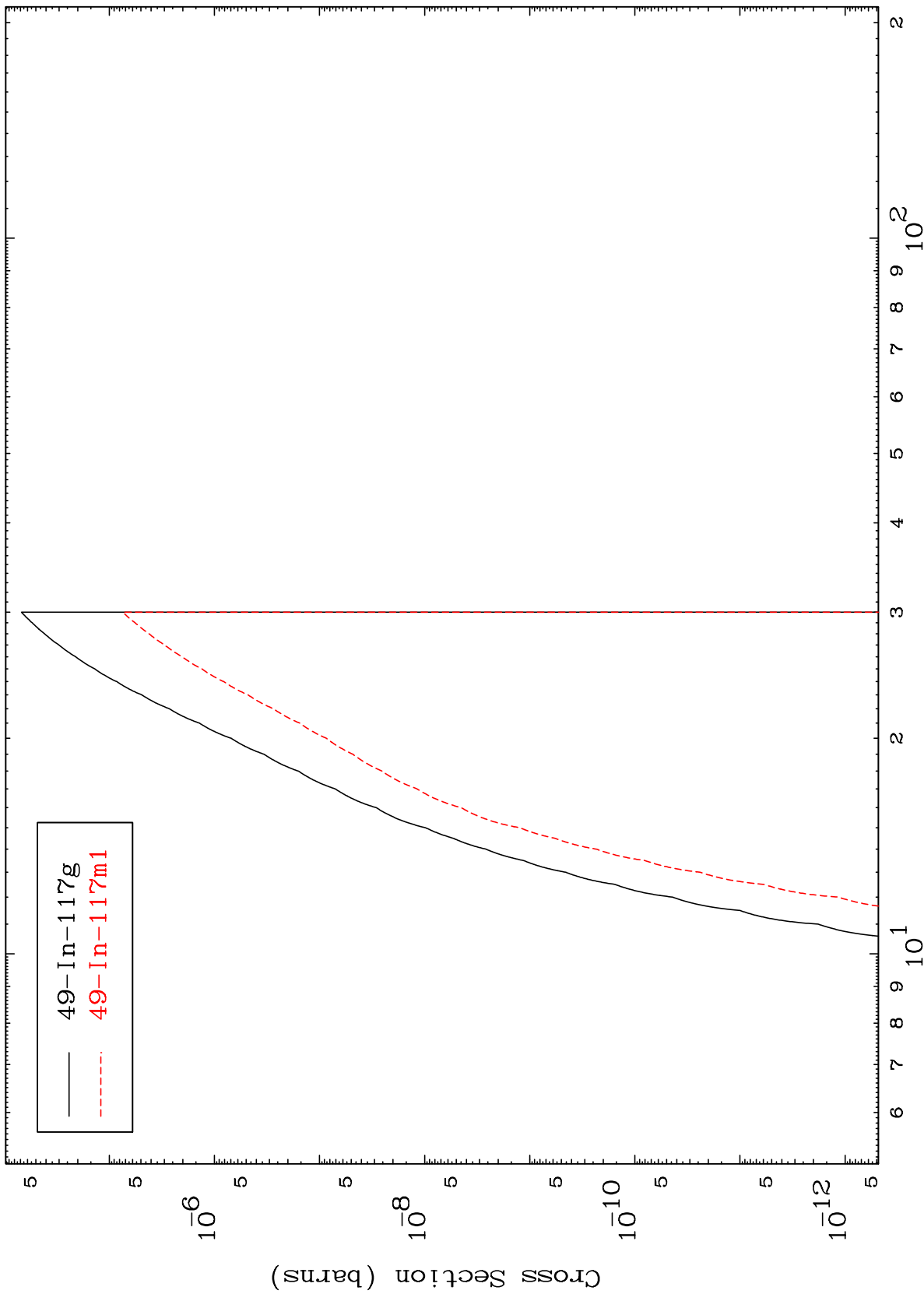
Incident Energy (MeV)

51-Sb-118

MAT 5117

51-Sb-118

(n,2p)
Radionuclide Production Cross Section

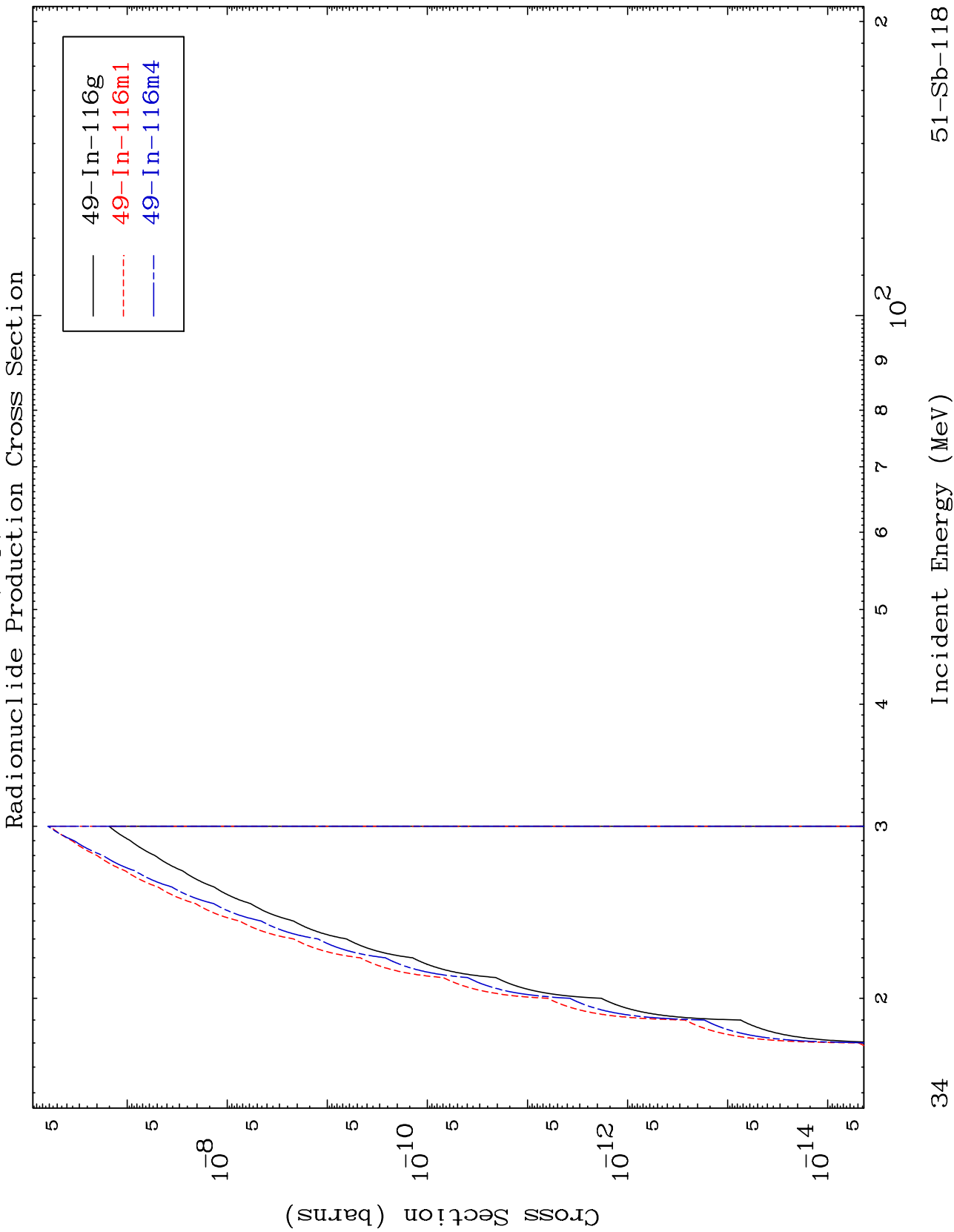


— 49-In-117g
- - - 49-In-117m1

51-Sb-118

Incident Energy (MeV)

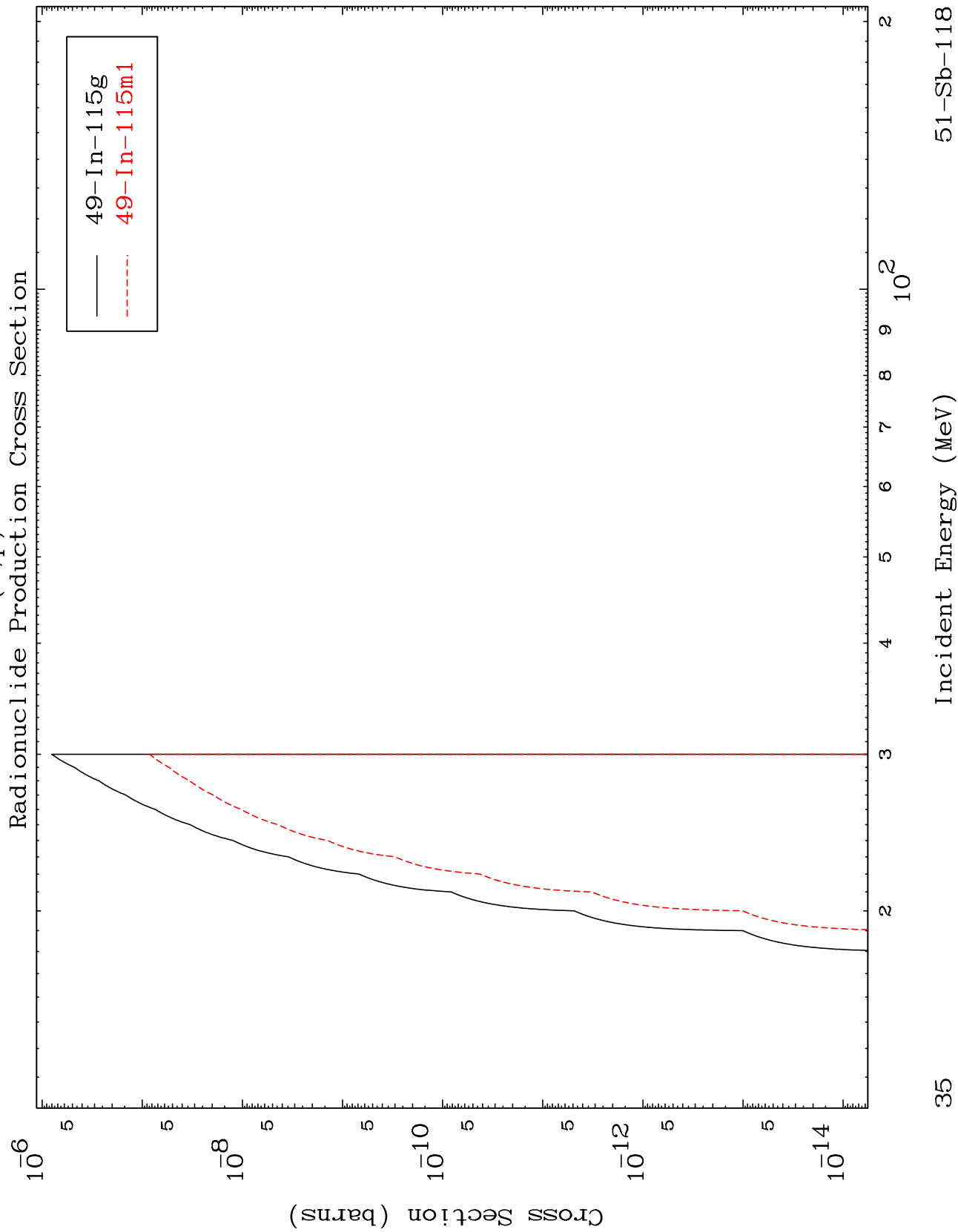
33



MAT 5117

(n,p) t

51-Sb-118



35

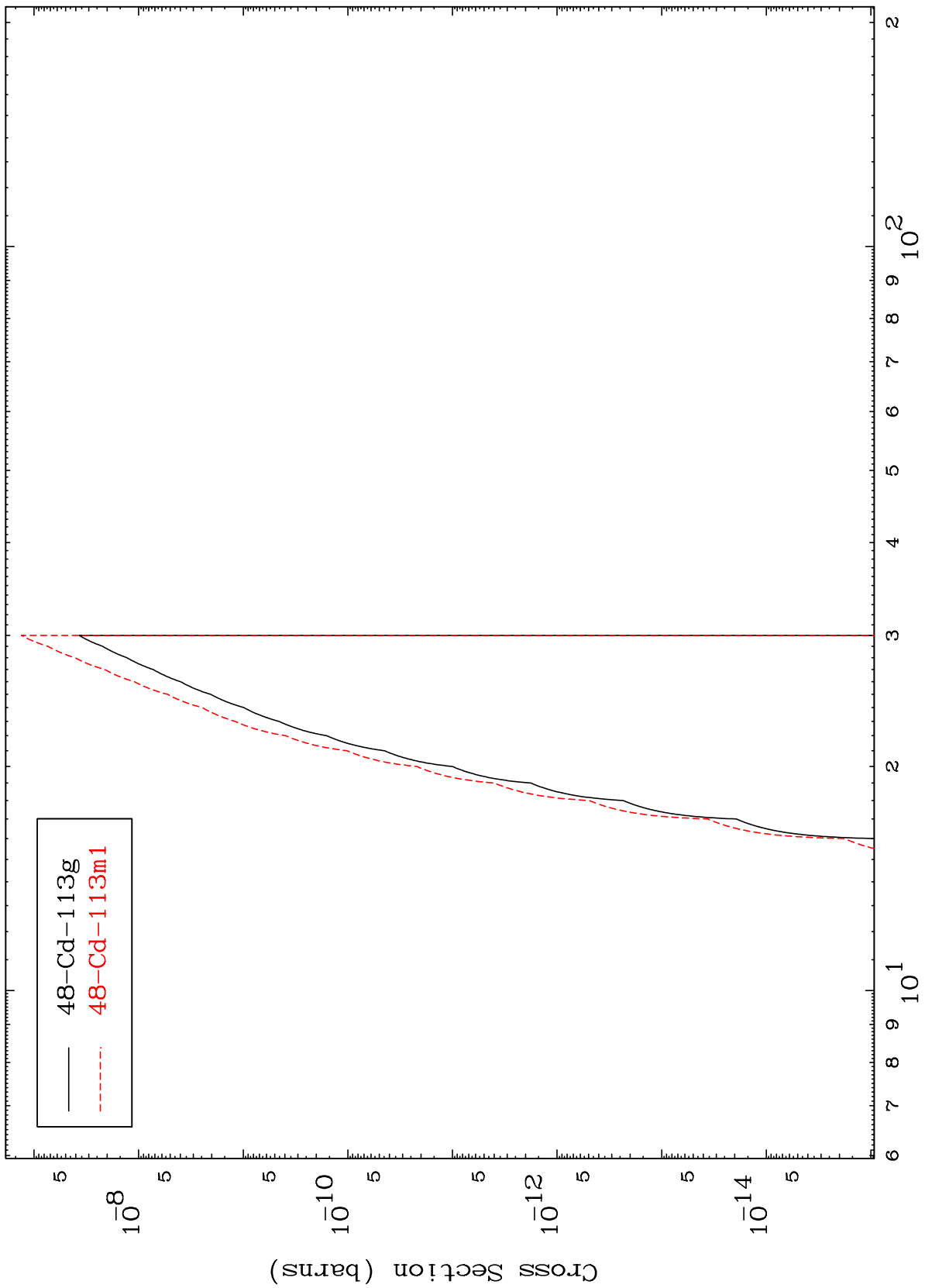
51-Sb-118

MAT 5117

(n,d) α

51-Sb-118

Radionuclide Production Cross Section



— 48-Cd-113g
- - - 48-Cd-113m1

Incident Energy (MeV)

51-Sb-118

36