

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

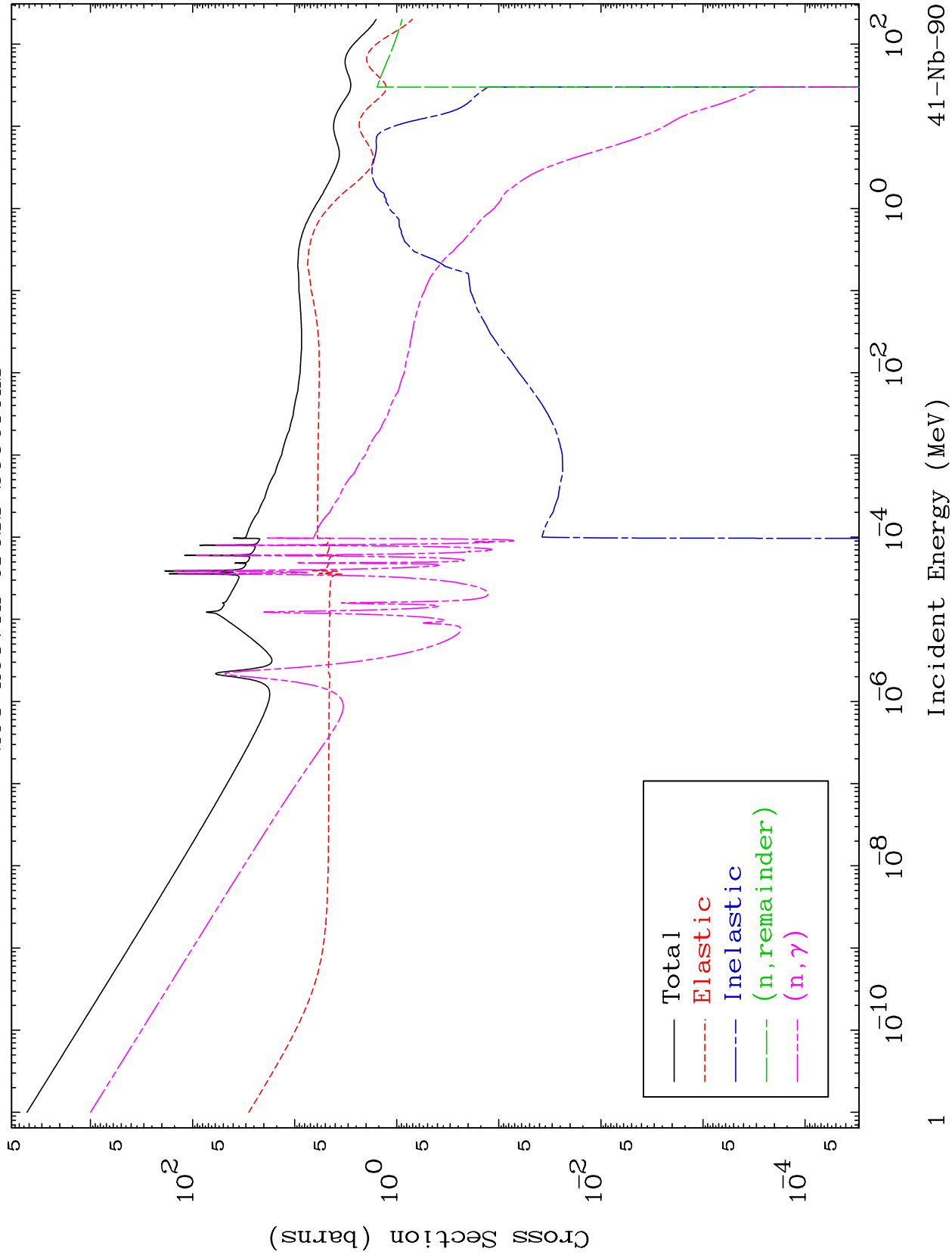
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4117

Major
293 Kelvin Cross Sections

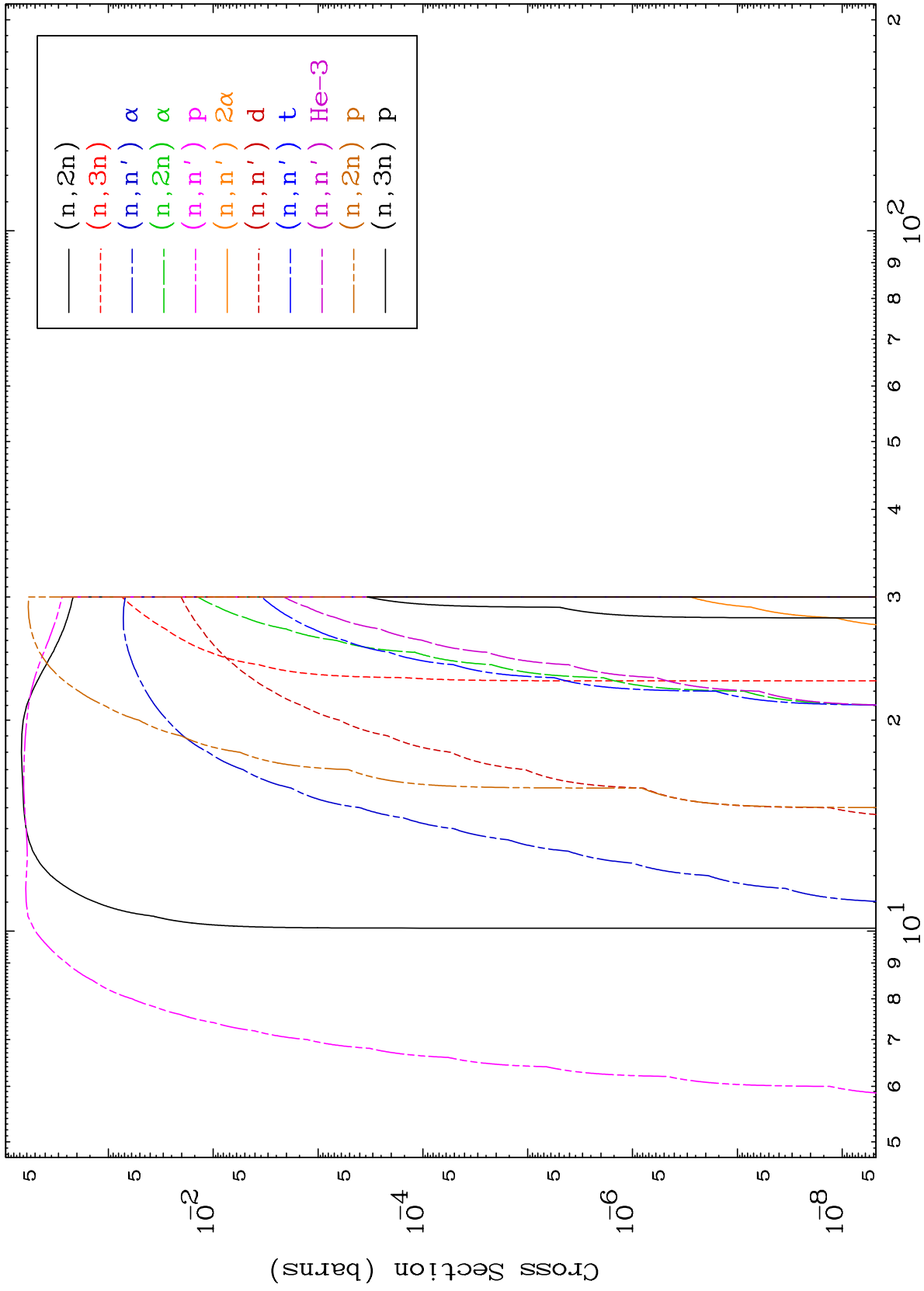
41-Nb-90



MAT 4117

Neutron Production 293 Kelvin Cross Sections

41-Nb-90



2

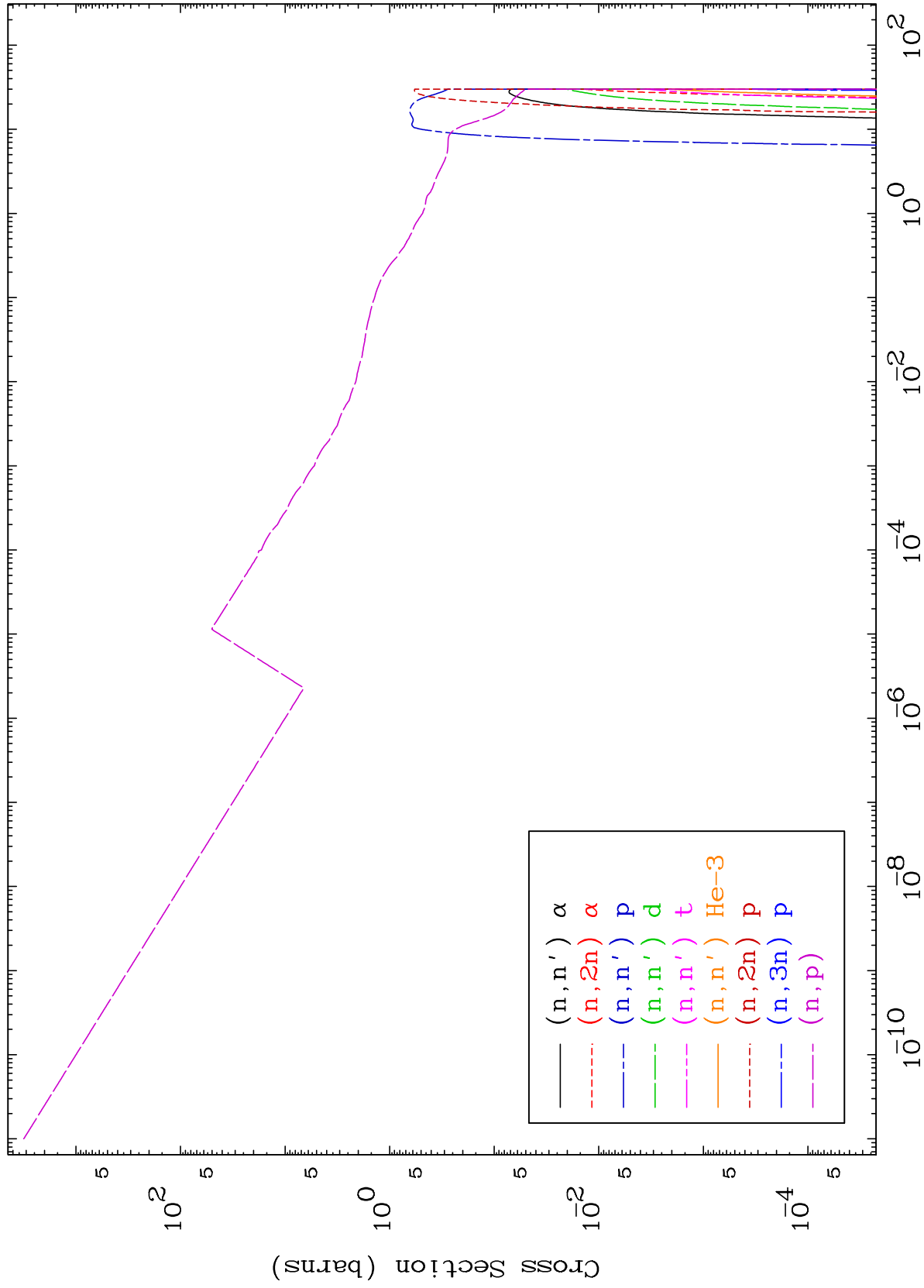
Incident Energy (MeV)

41-Nb-90

MAT 4117

Charged Particle
293 Kelvin Cross Sections

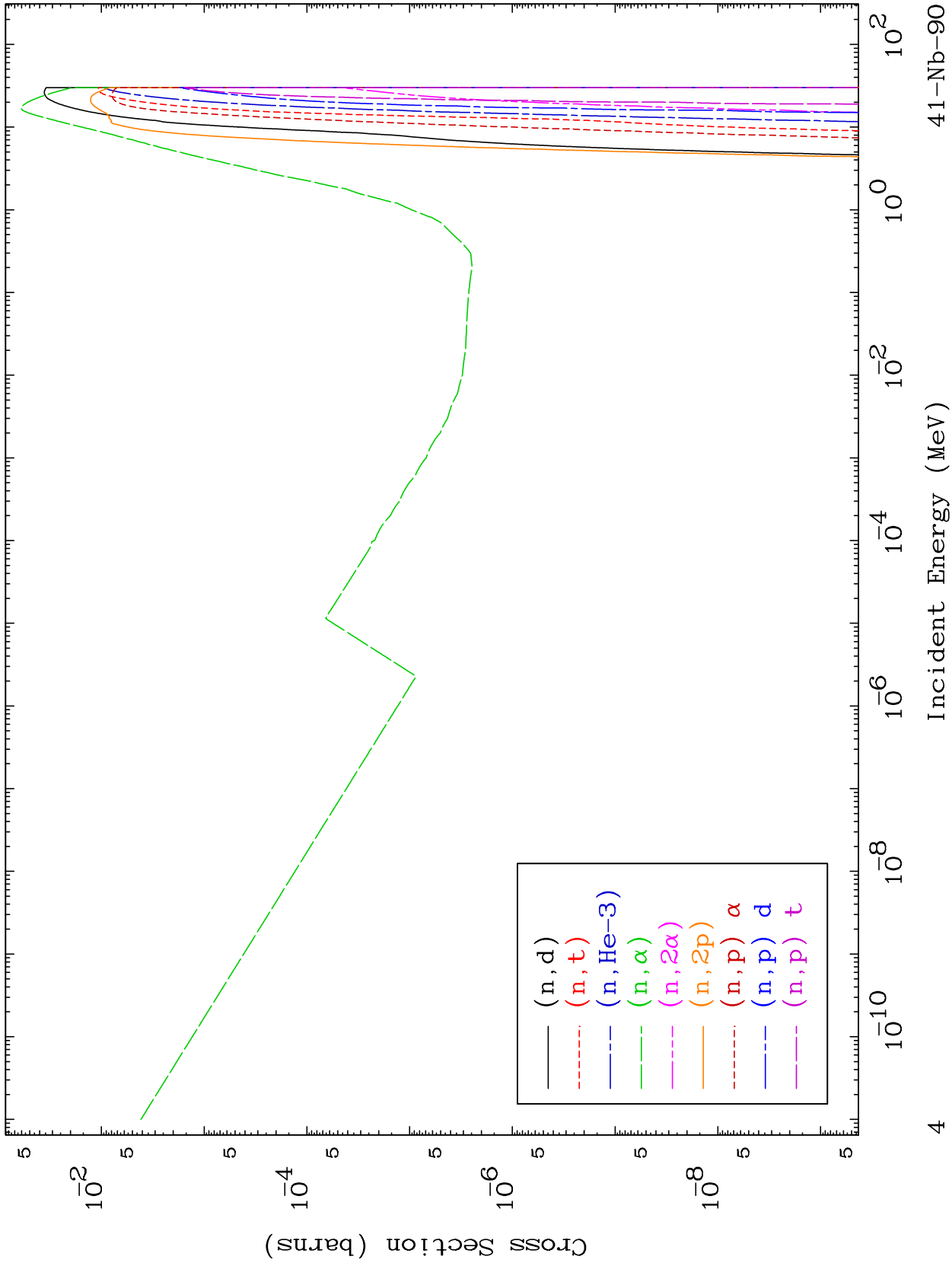
41-Nb-90



MAT 4117

Charged Particle
293 Kelvin Cross Sections

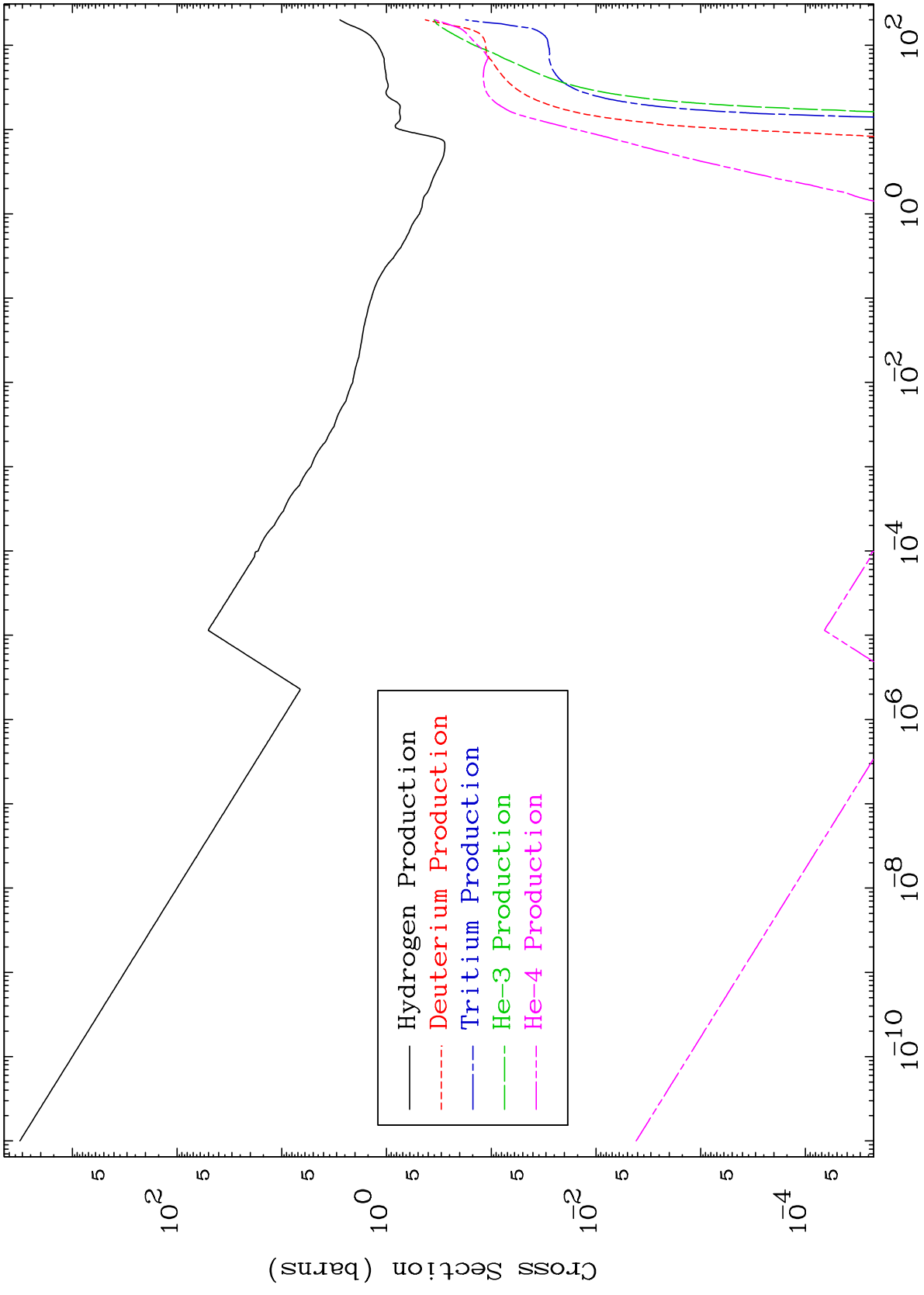
41-Nb-90



MAT 4117

Particle Production
293 Kelvin Cross Sections

41-Nb-90

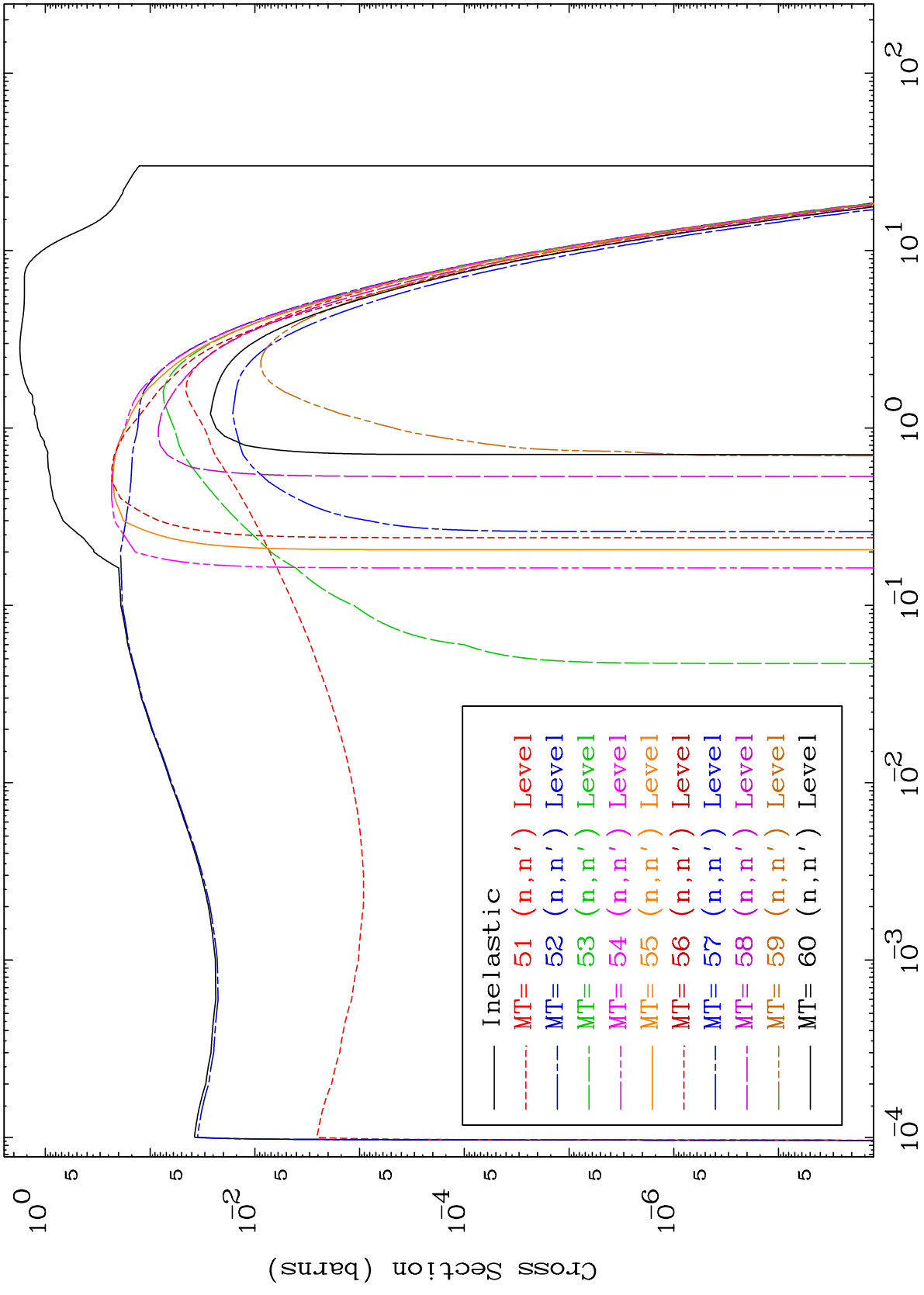


41-Nb-90

MAT 4117

(n,n') Level
293 Kelvin Cross Sections

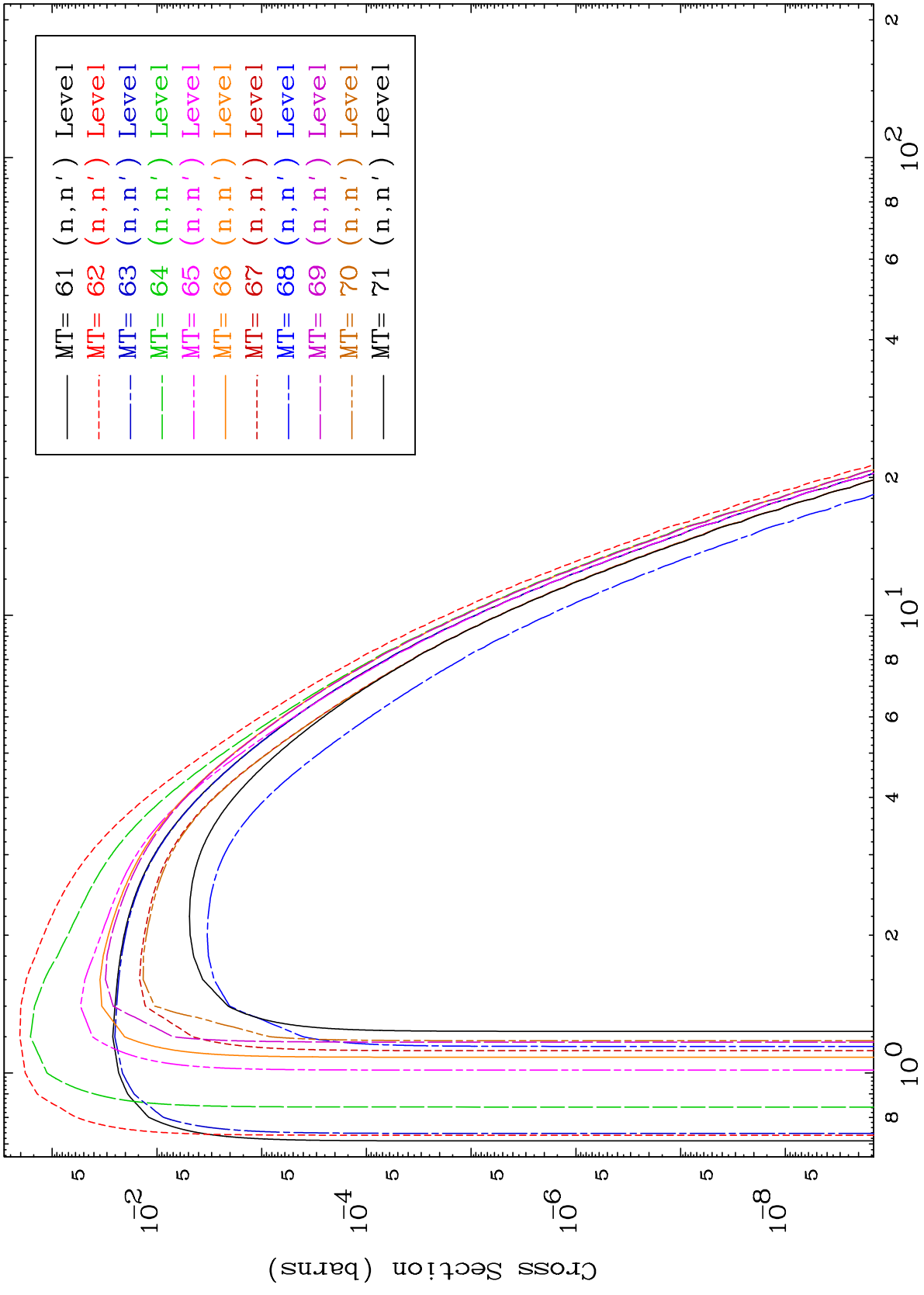
41-Nb-90



MAT 4117

(n,n') Level
293 Kelvin Cross Sections

41-Nb-90



7

Incident Energy (MeV)

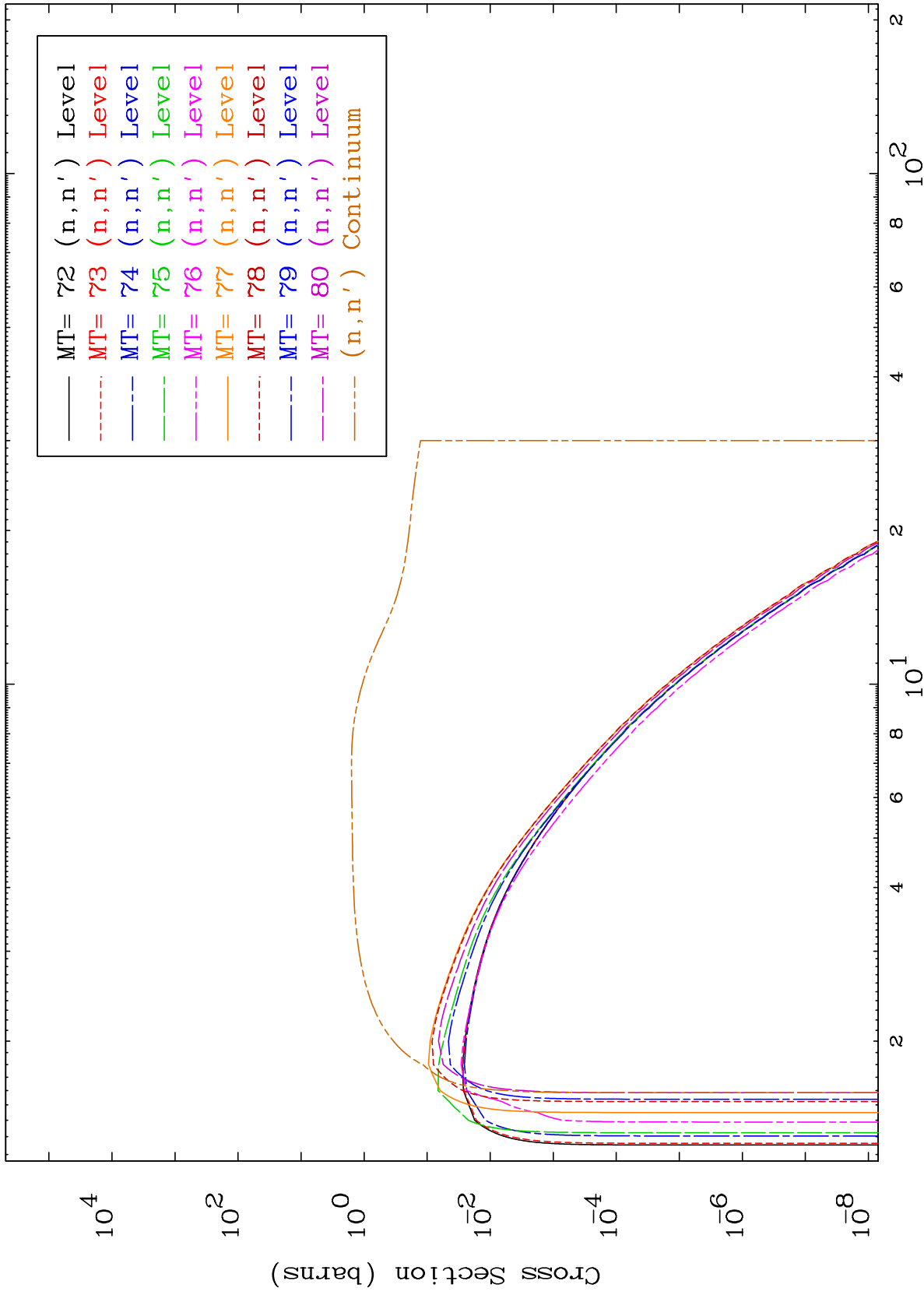
41-Nb-90

MAT 4117

(n,n') Level

41-Nb-90

293 Kelvin Cross Sections



8

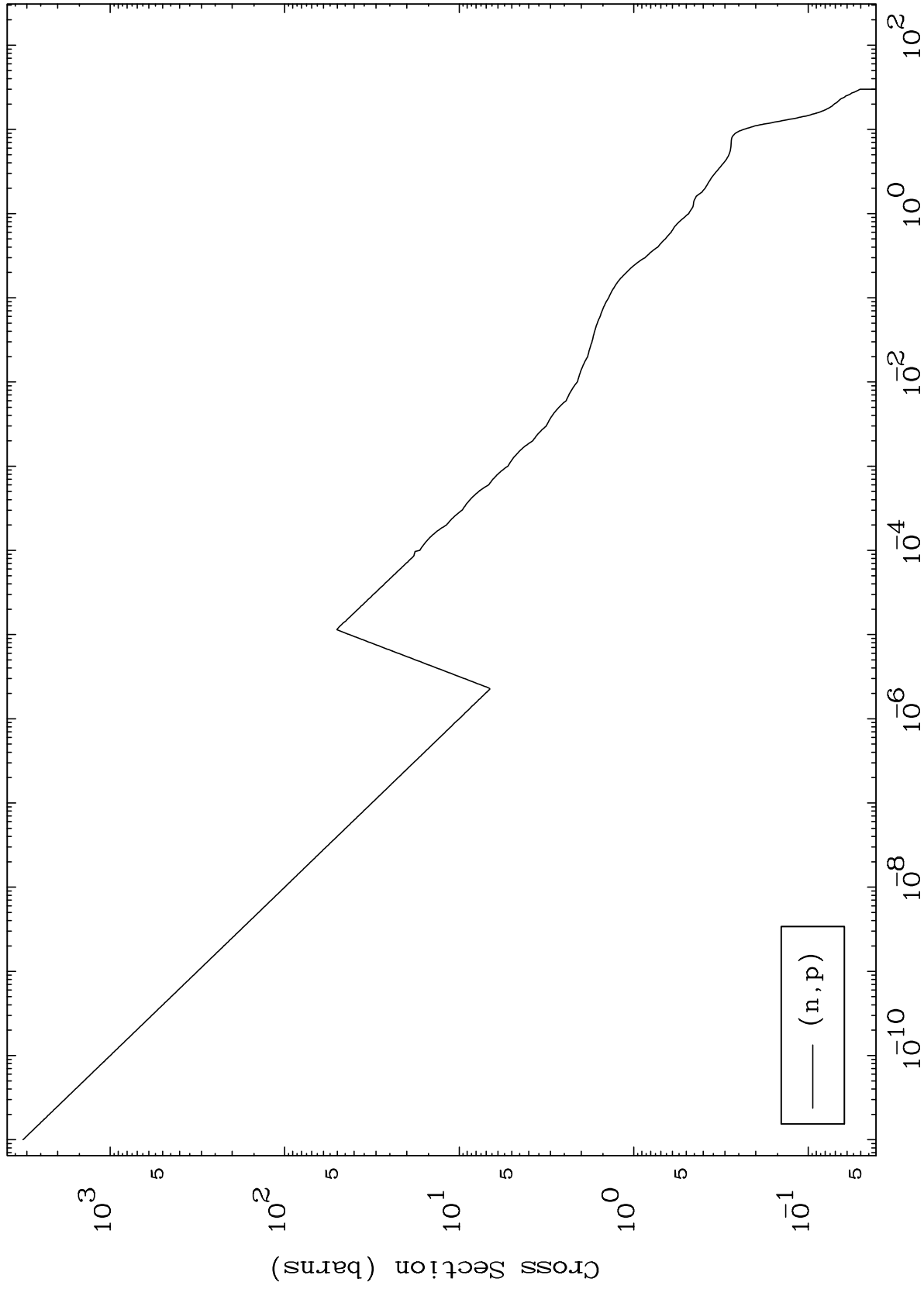
Incident Energy (MeV)

41-Nb-90

MAT 4117

(n,p) Levels
293 Kelvin Cross Sections

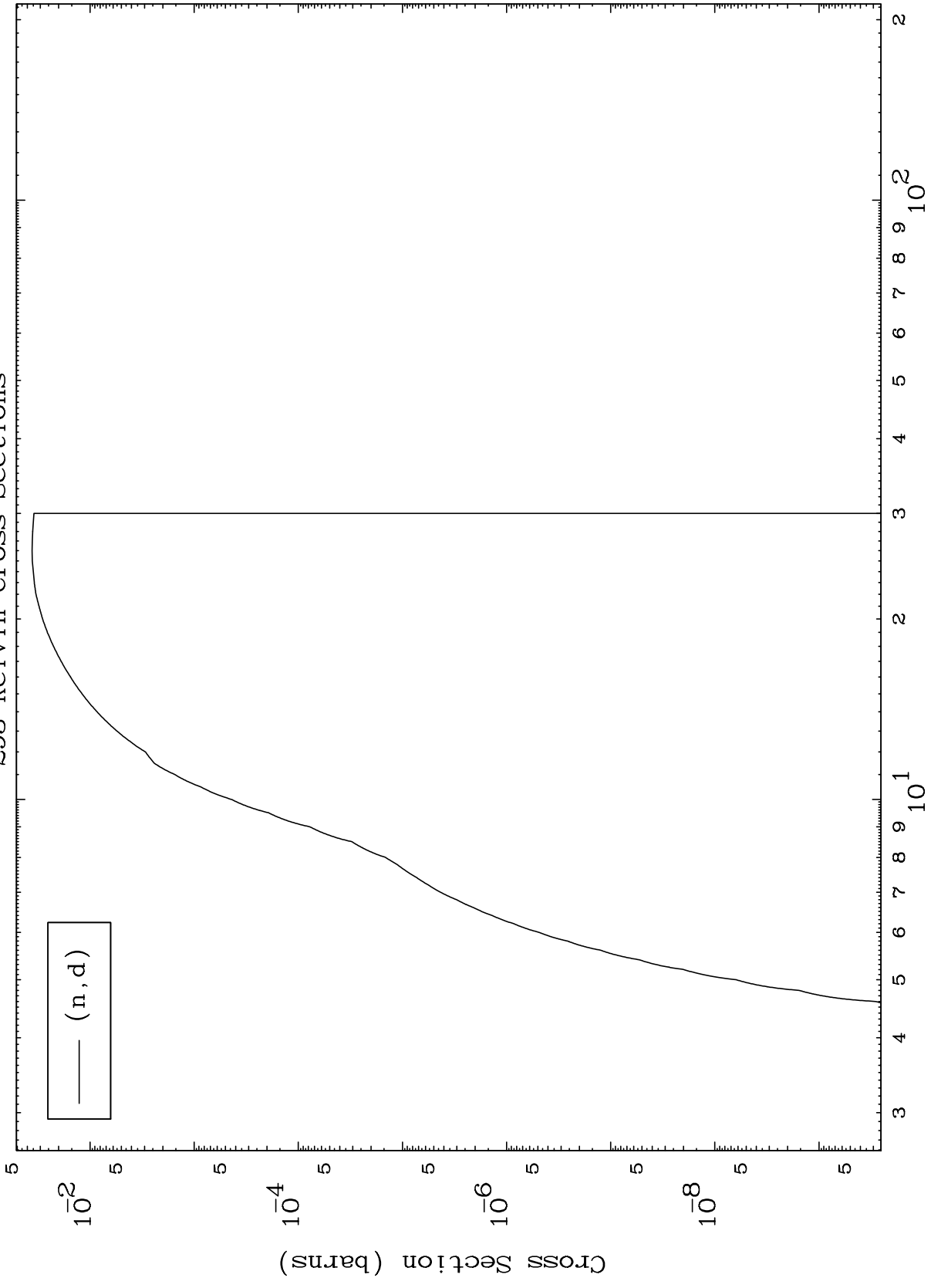
41-Nb-90



MAT 4117

(n,d) Levels
293 Kelvin Cross Sections

41-Nb-90



10

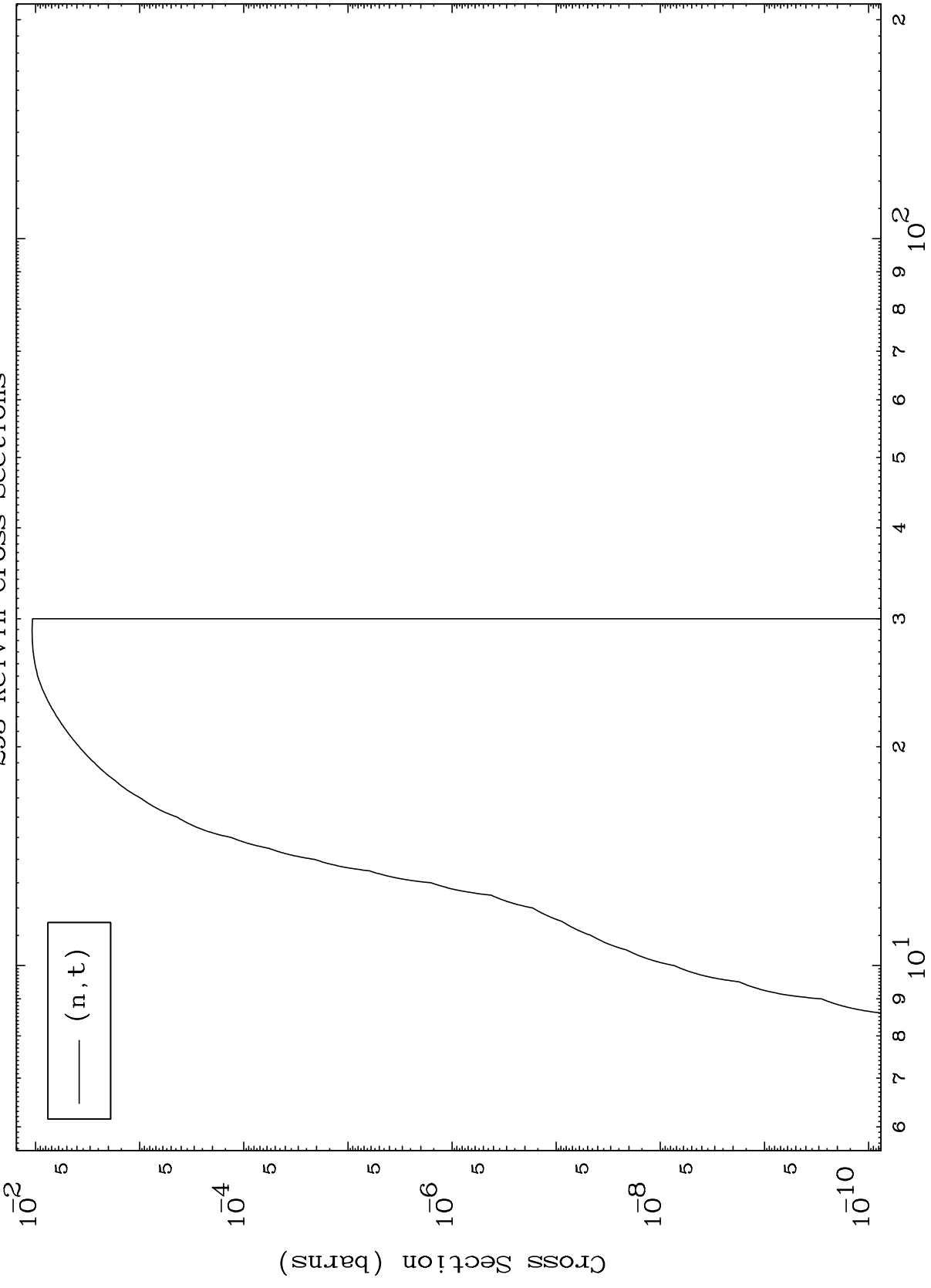
Incident Energy (MeV)

41-Nb-90

MAT 4117

(n,t) Levels
293 Kelvin Cross Sections

41-Nb-90



11

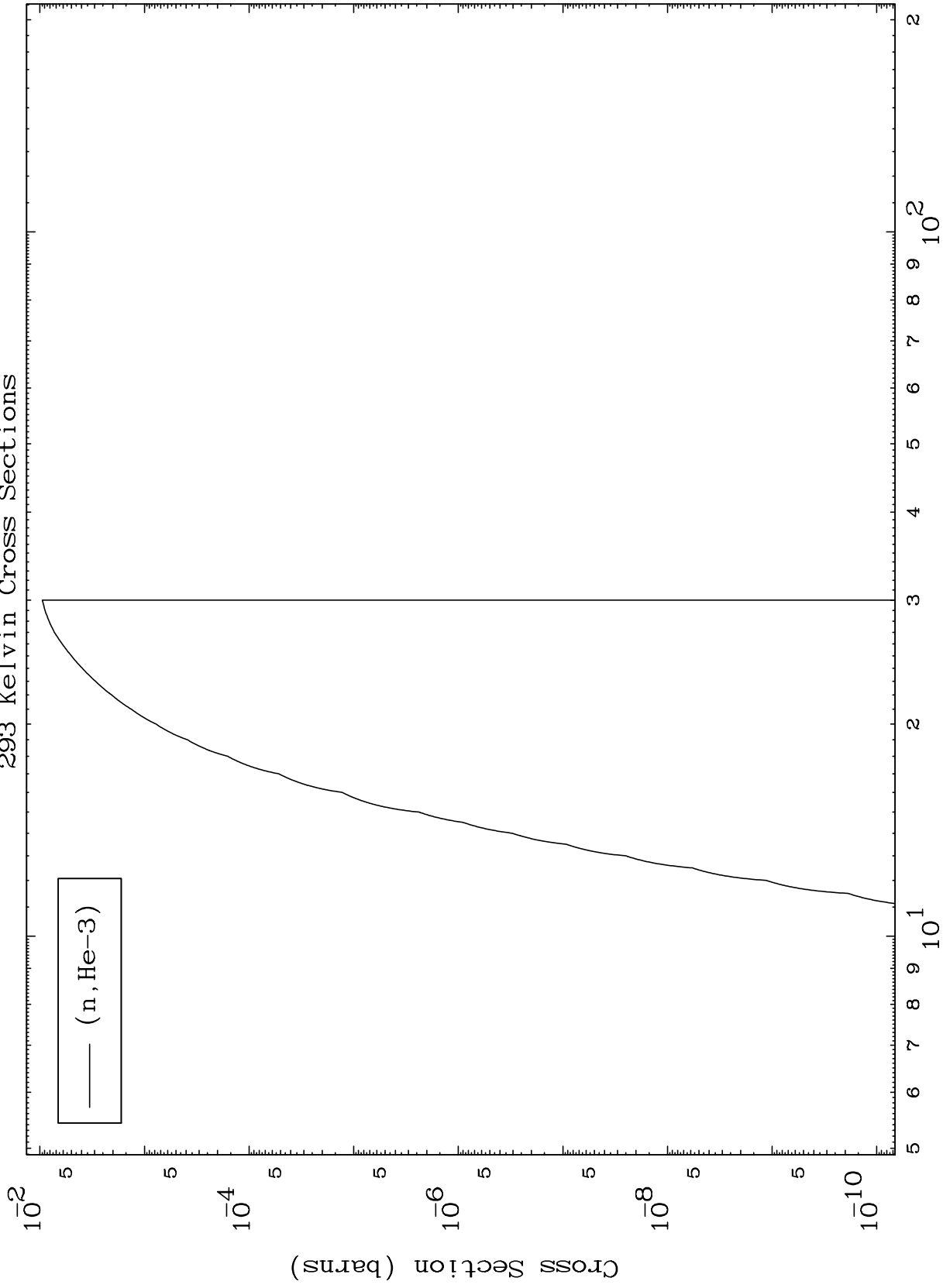
Incident Energy (MeV)

41-Nb-90

MAT 4117

(n,He3) Levels
293 Kelvin Cross Sections

41-Nb-90



12

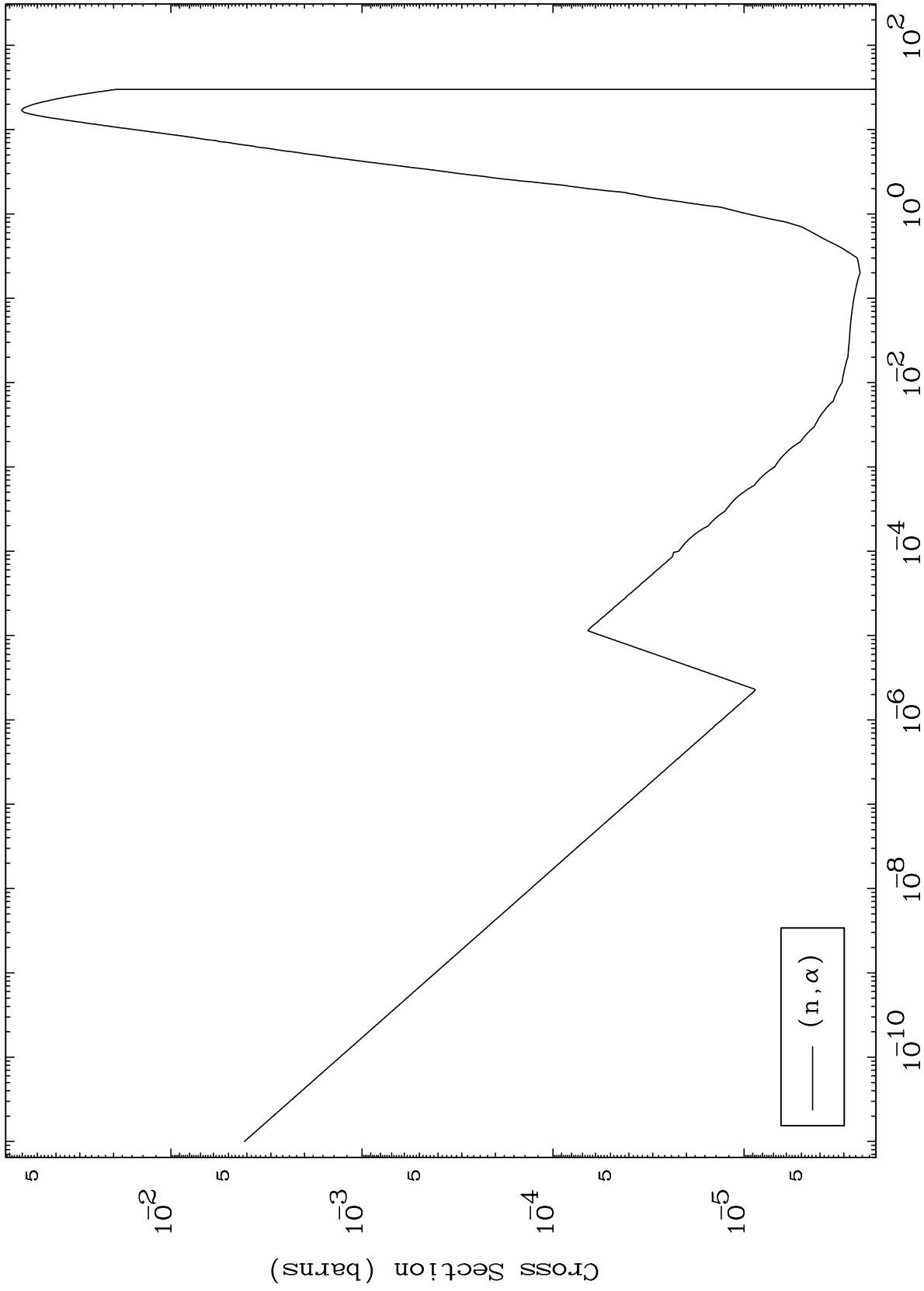
Incident Energy (MeV)

41-Nb-90

MAT 4117

(n,α) Levels
293 Kelvin Cross Sections

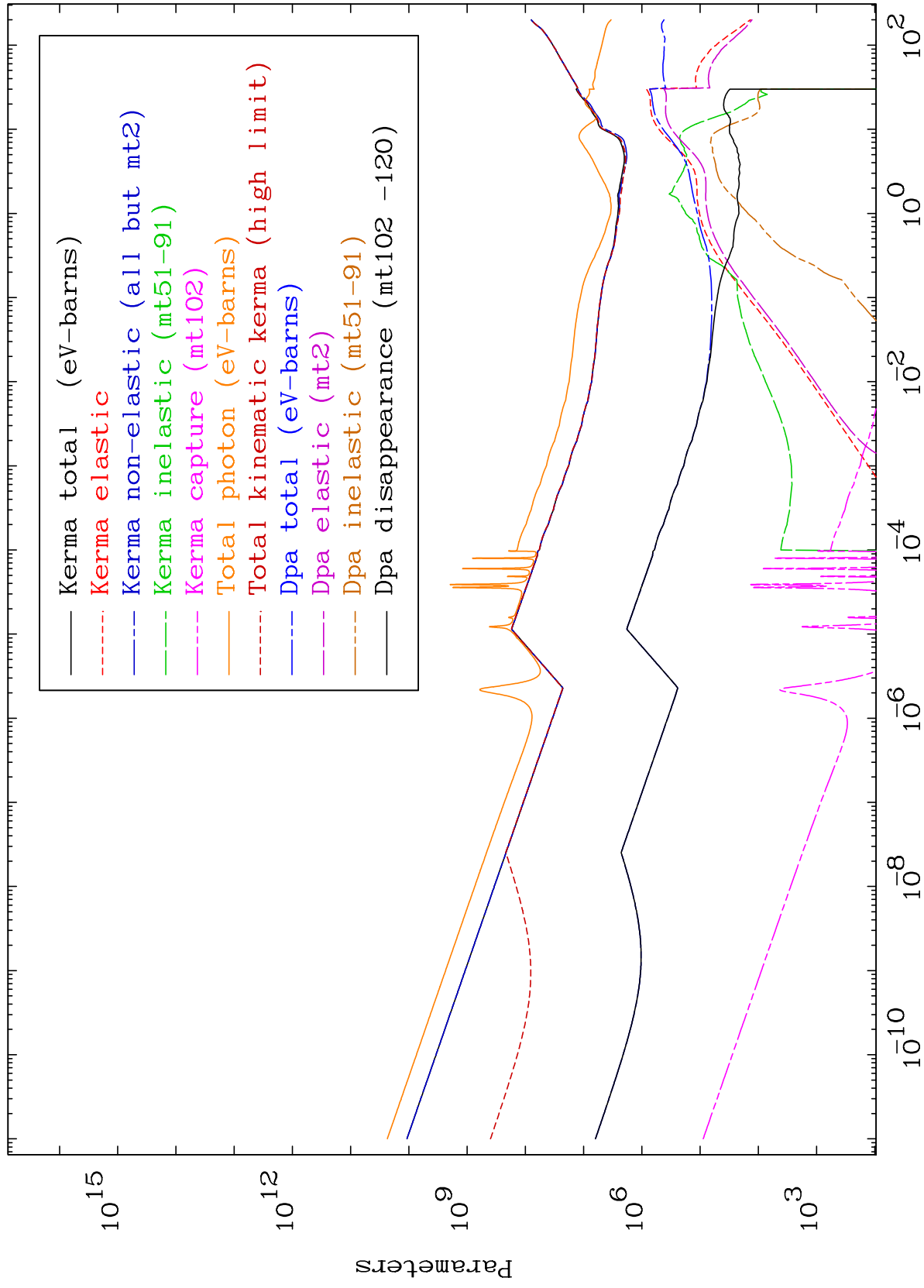
41-Nb-90

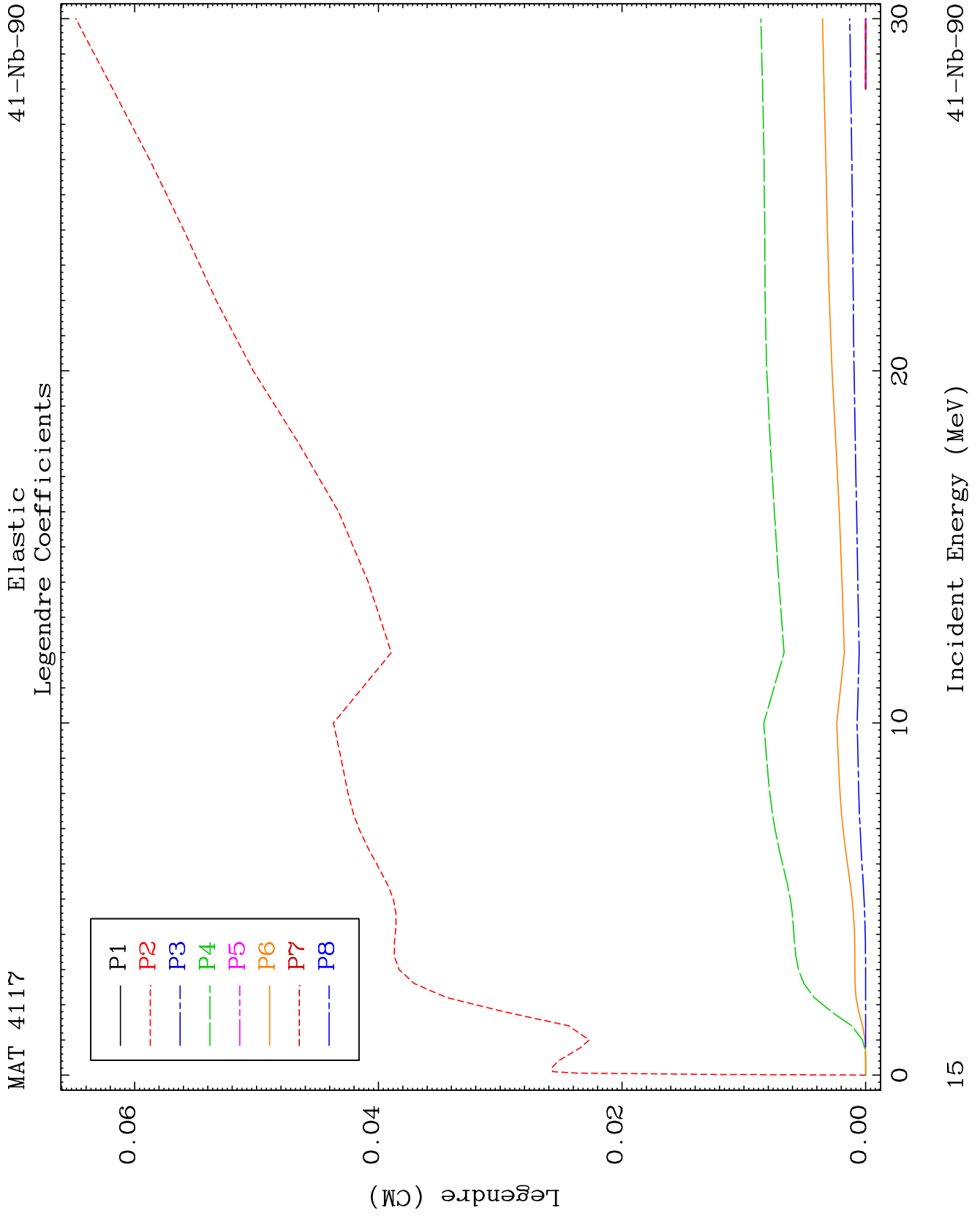


13

Incident Energy (MeV)

41-Nb-90

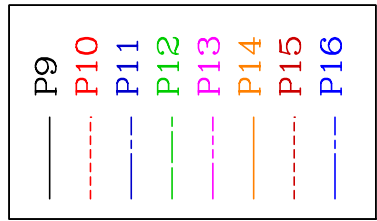




MAT 4117

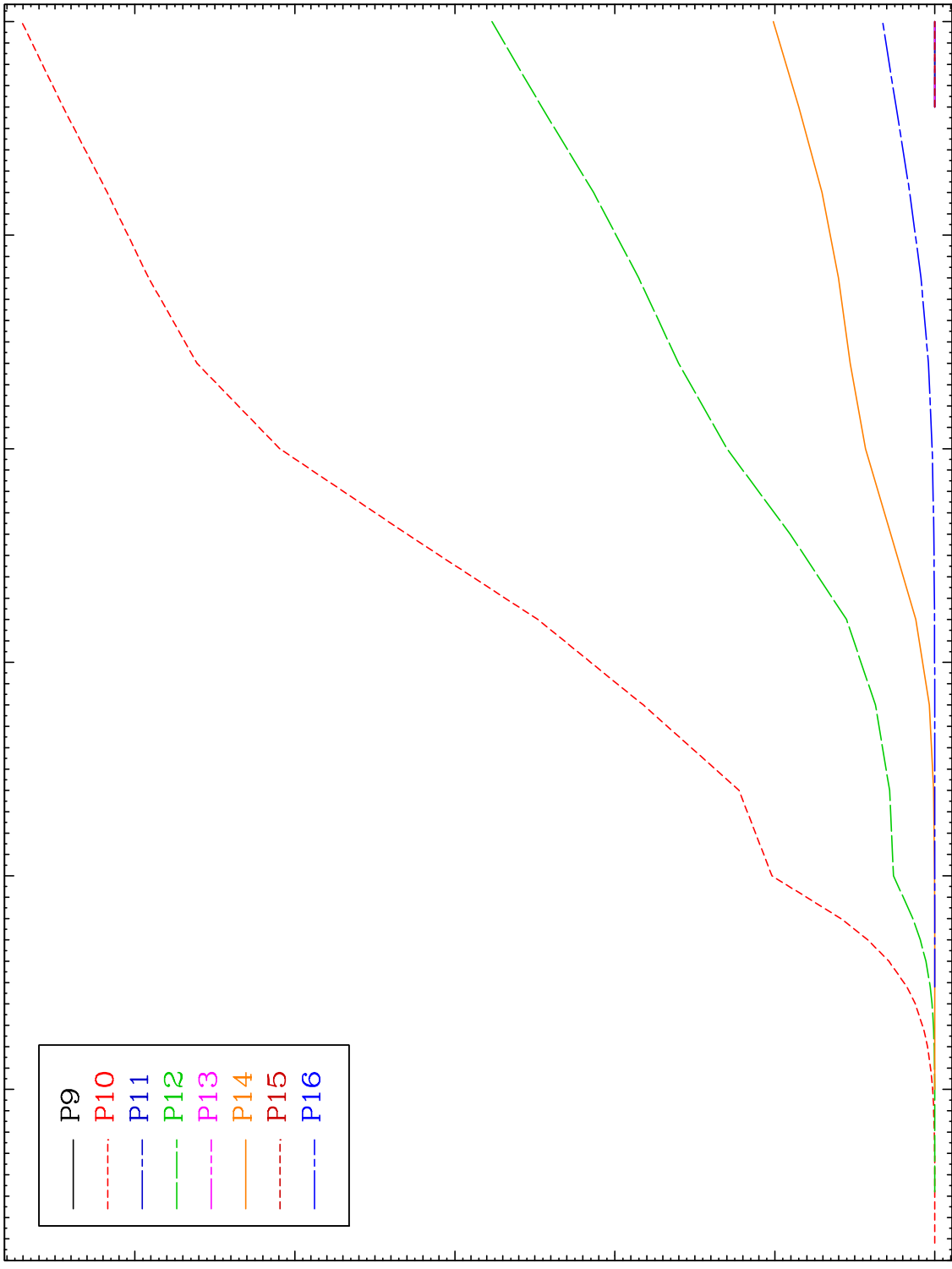
Elastic Legendre Coefficients

41-Nb-90



$\times 10^{-4}$

Legendre (CM)



16

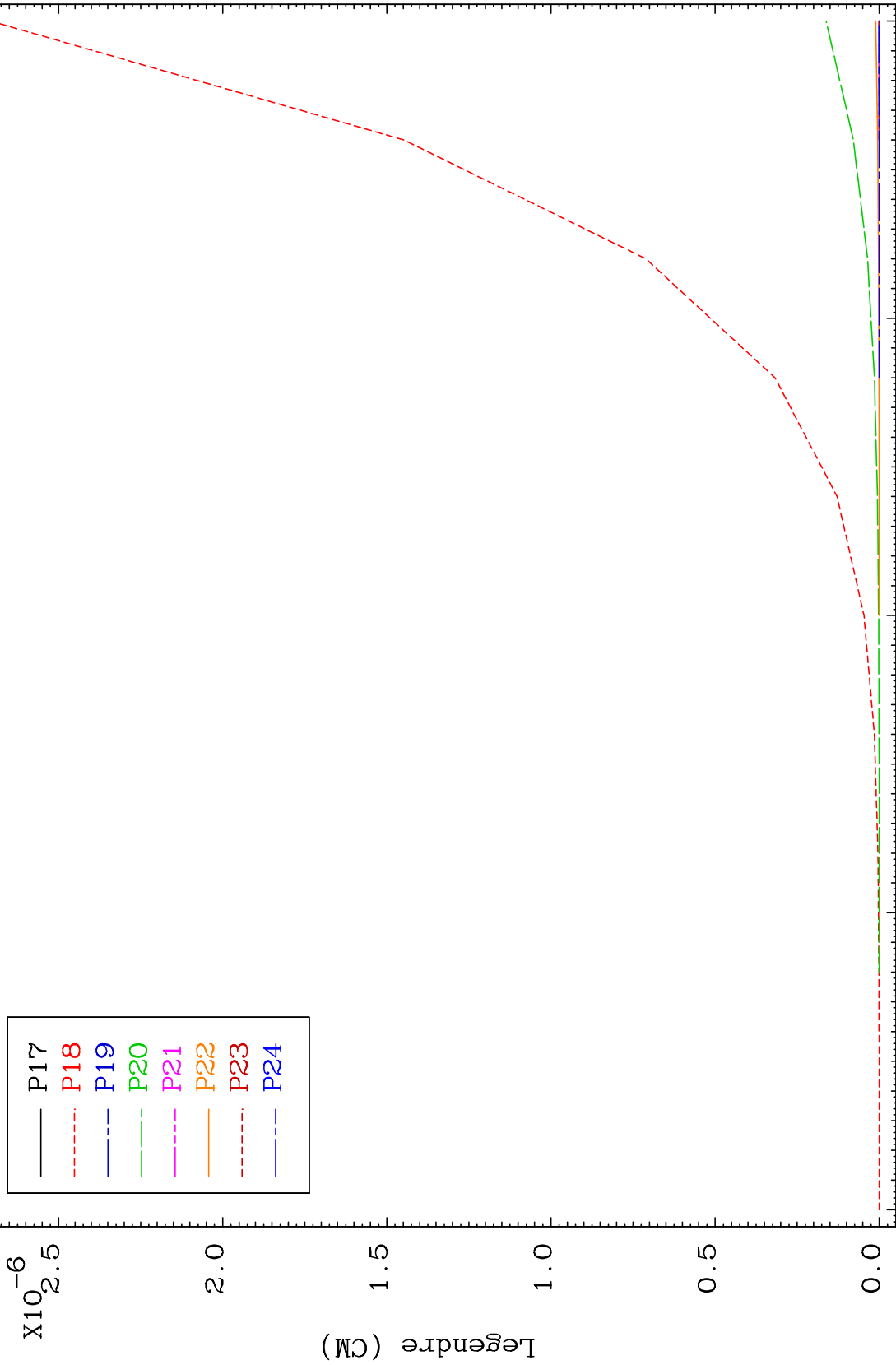
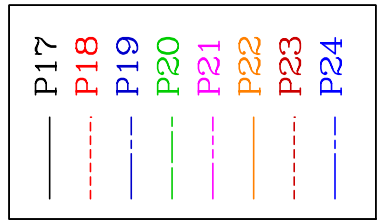
Incident Energy (MeV)

41-Nb-90

MAT 4117

Elastic Legendre Coefficients

41-Nb-90



17

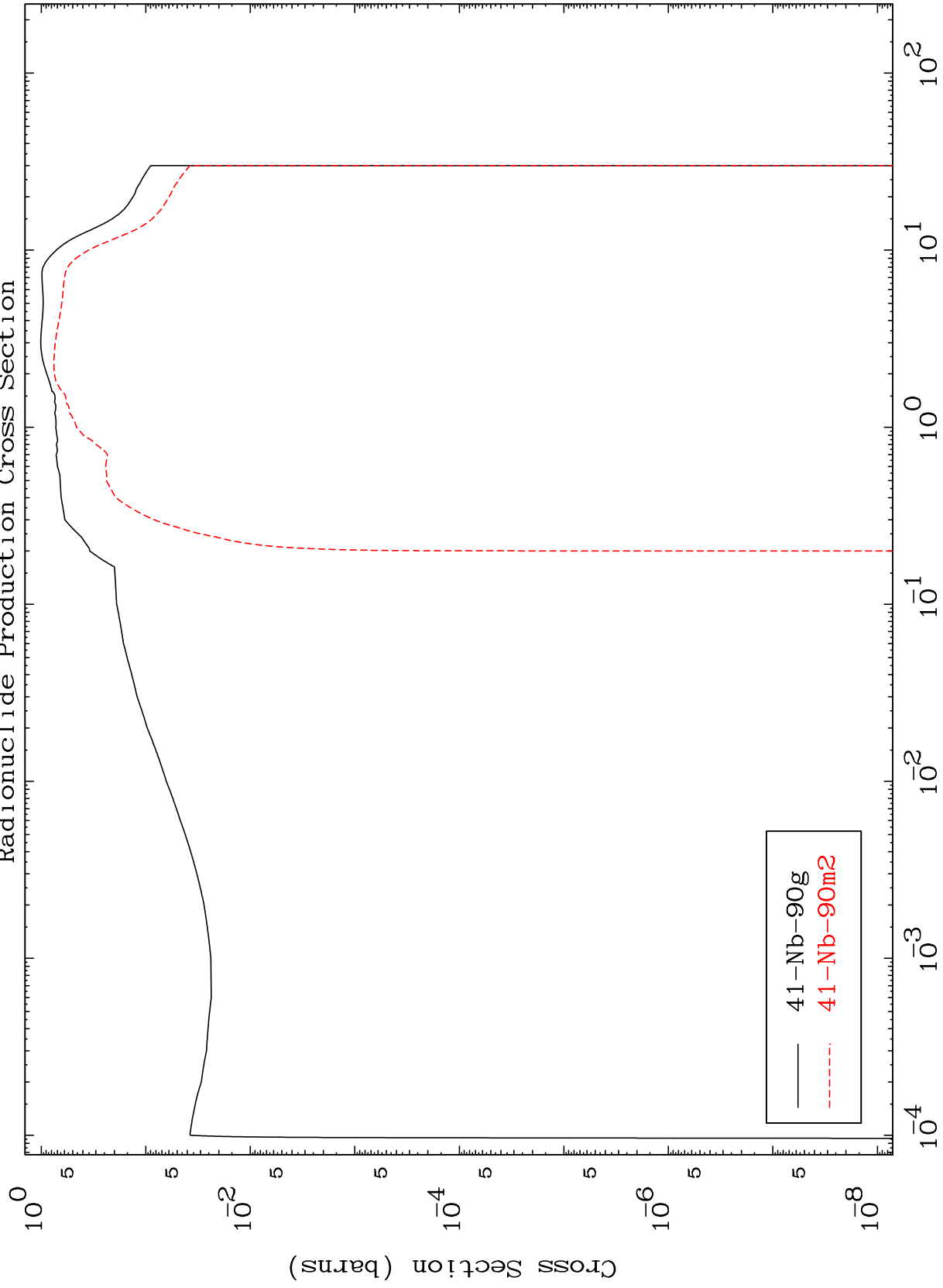
Incident Energy (MeV)

41-Nb-90

MAT 4117

Inelastic
Radionuclide Production Cross Section

41-Nb-90



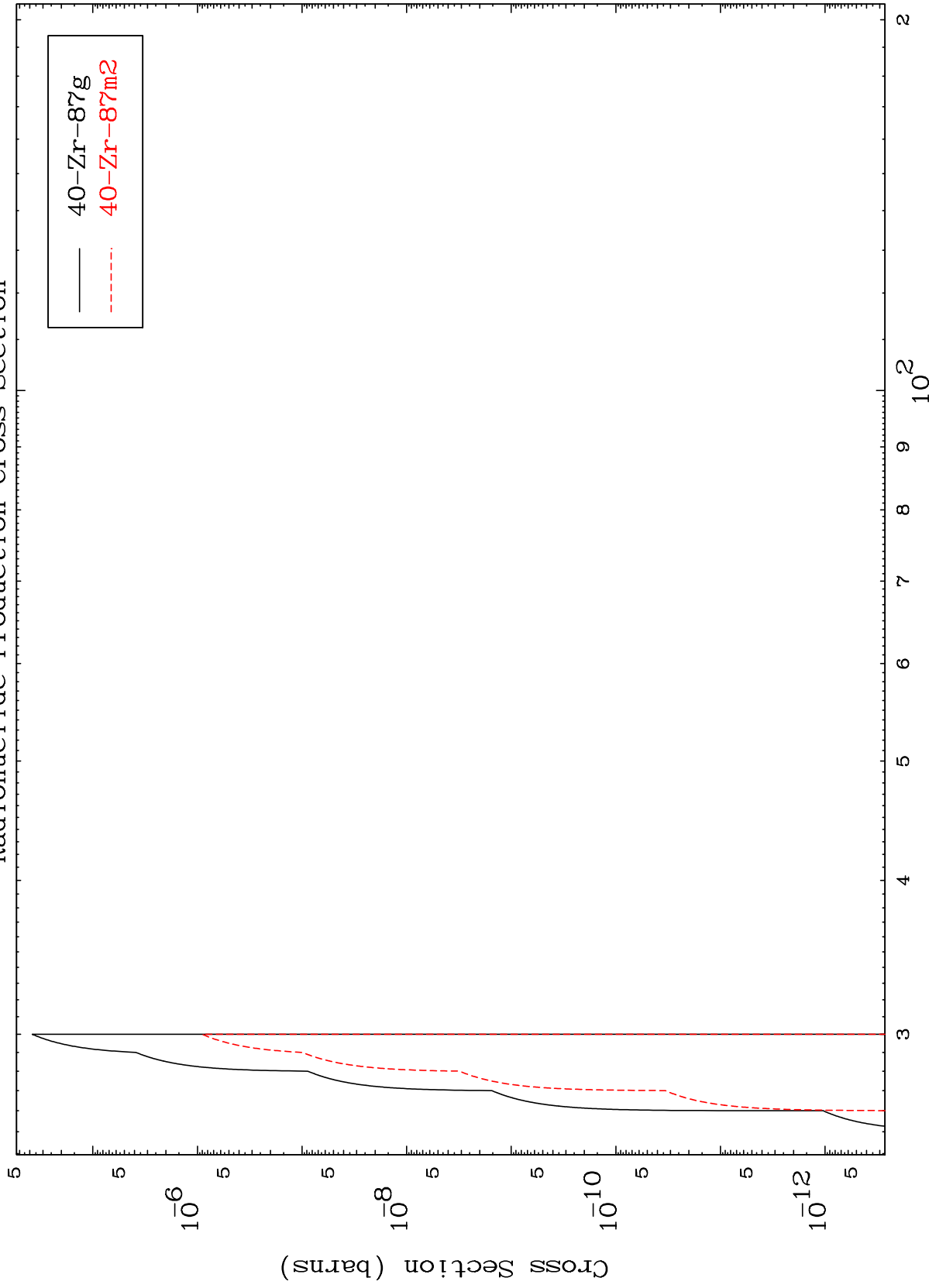
— 41-Nb-90g
- - - 41-Nb-90m2

MAT 4117

(n,2n) d

41-Nb-90

Radionuclide Production Cross Section



40-Zr-87g
40-Zr-87m2

19

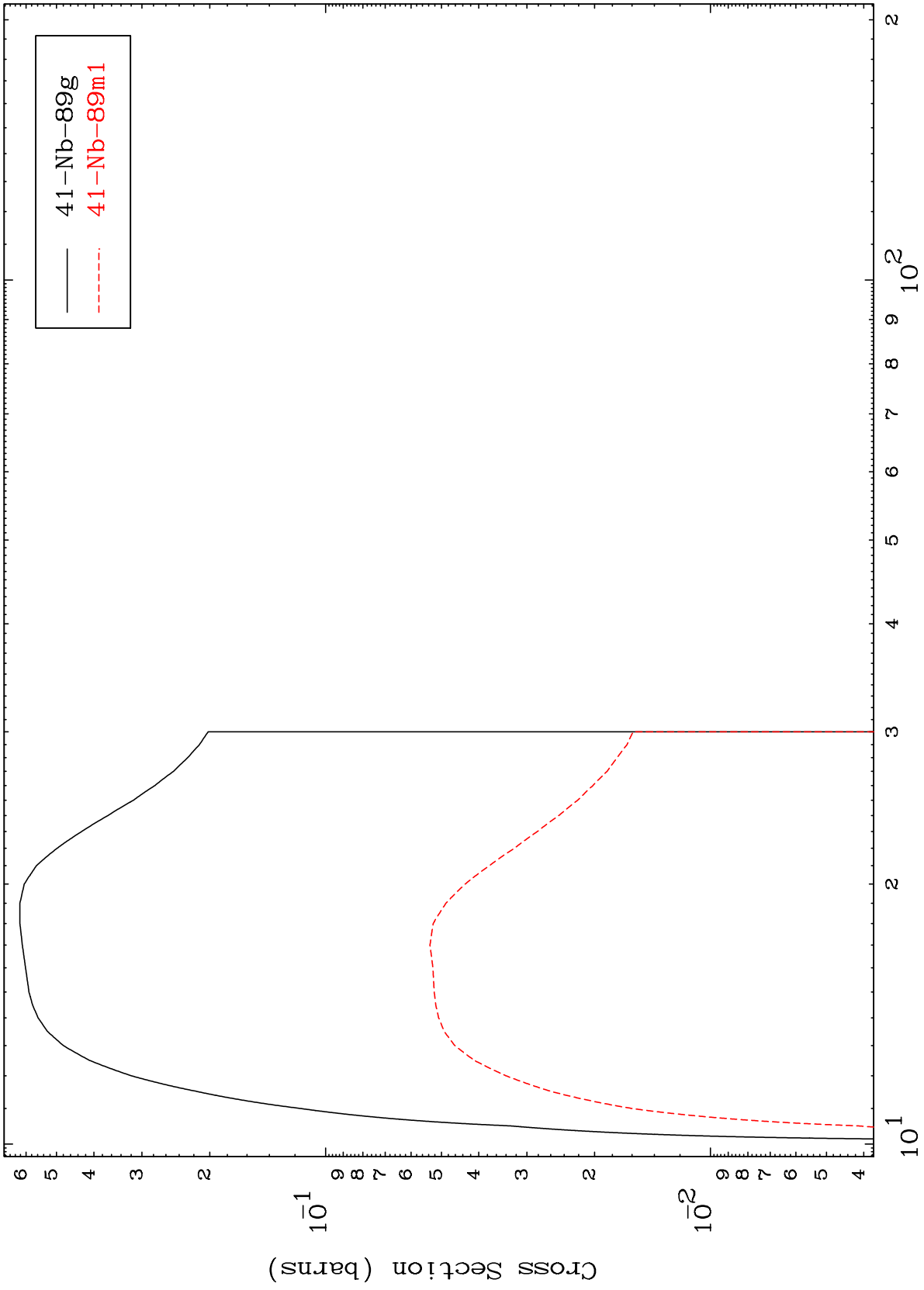
Incident Energy (MeV)

41-Nb-90

MAT 4117

41-Nb-90

(n,2n)
Radionuclide Production Cross Section



41-Nb-90

Incident Energy (MeV)

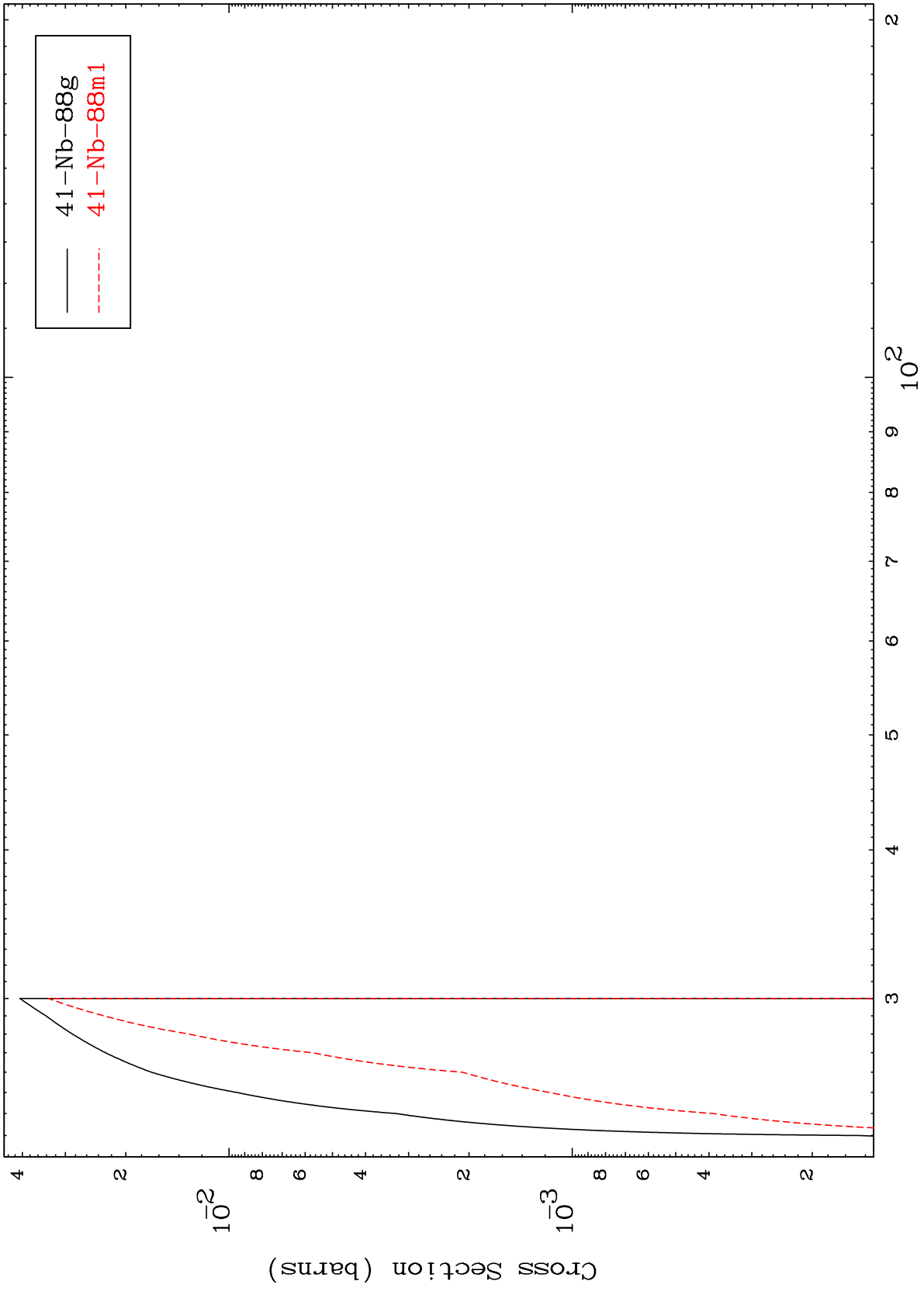
20

MAT 4117

(n,3n)

41-Nb-90

Radionuclide Production Cross Section



21

Incident Energy (MeV)

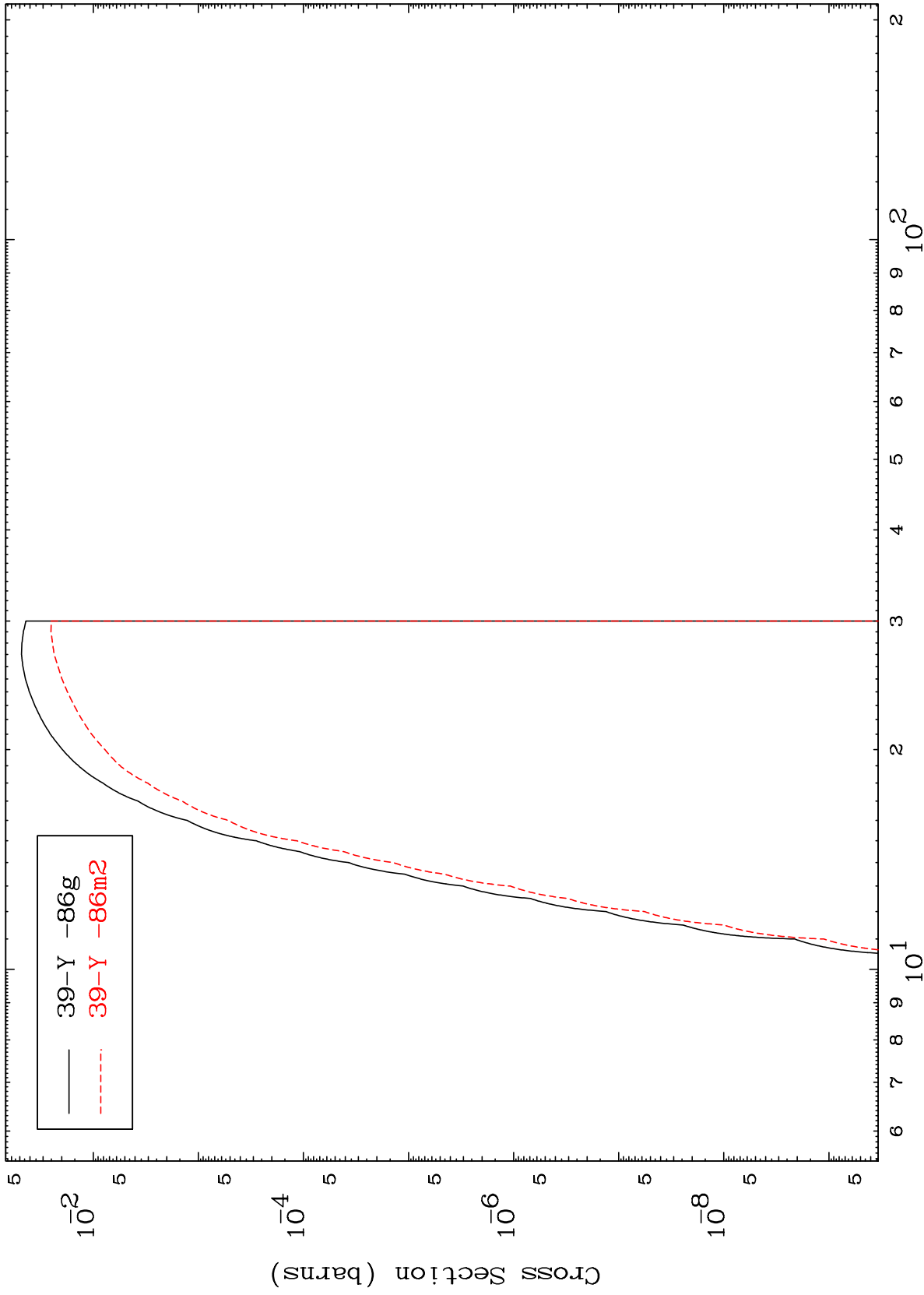
41-Nb-90

MAT 4117

(n,n') α

41-Nb-90

Radionuclide Production Cross Section



22

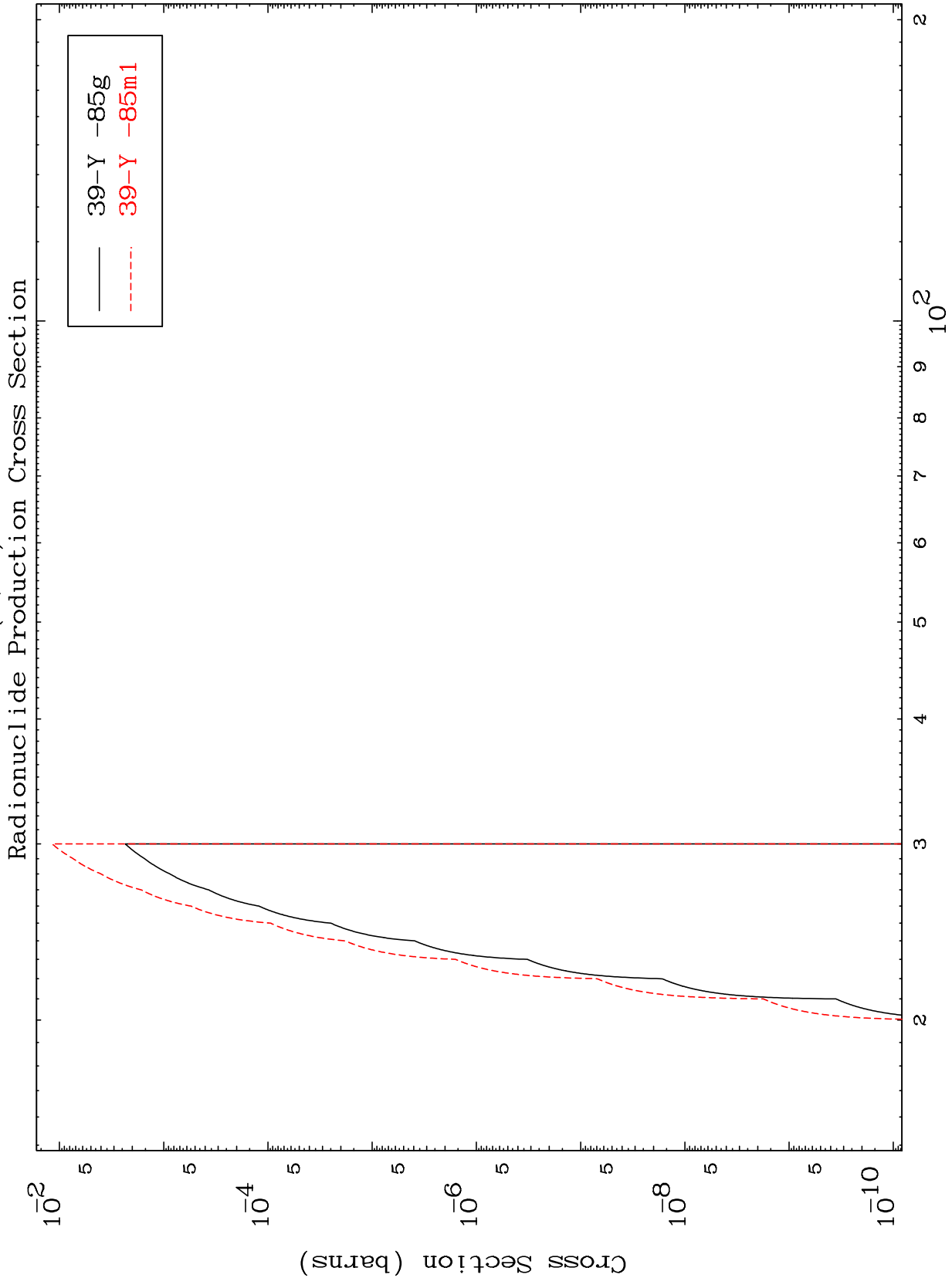
Incident Energy (MeV)

41-Nb-90

MAT 4117

(n,2n) α

41-Nb-90



23

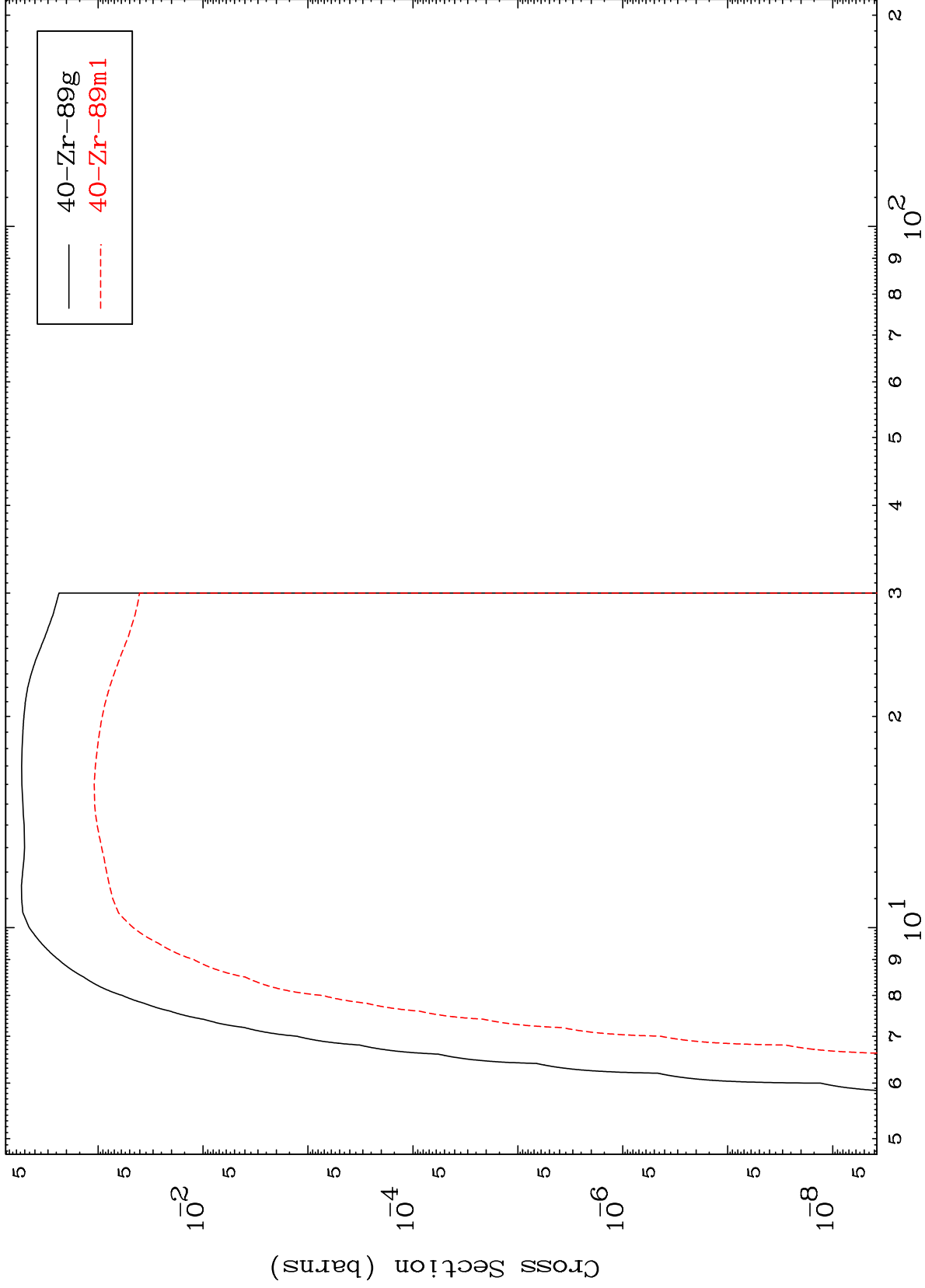
41-Nb-90

MAT 4117

(n,n') p

41-Nb-90

Radionuclide Production Cross Section



24

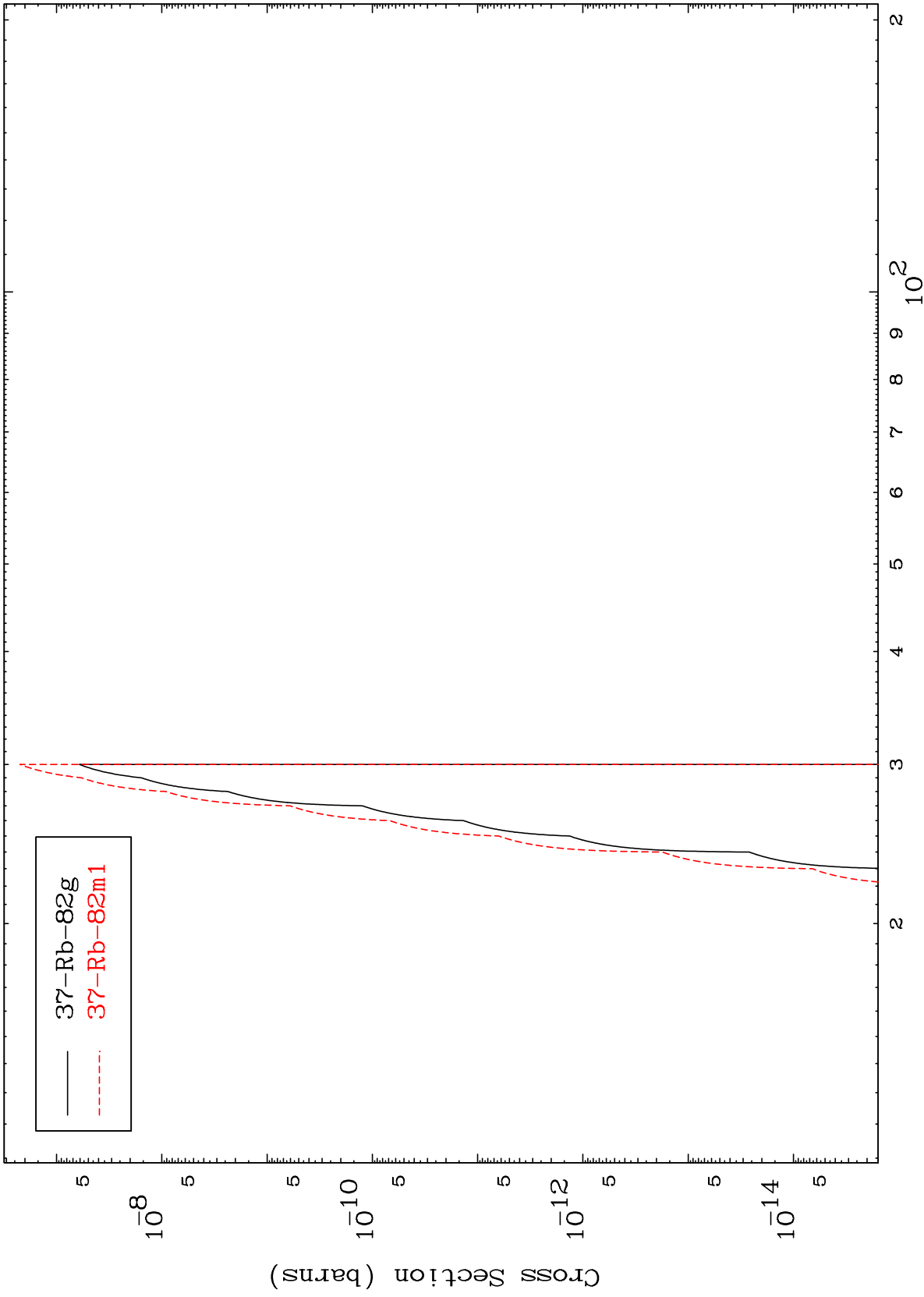
Incident Energy (MeV)

41-Nb-90

MAT 4117

(n,n') 2α
Radionuclide Production Cross Section

41-Nb-90



25

Incident Energy (MeV)

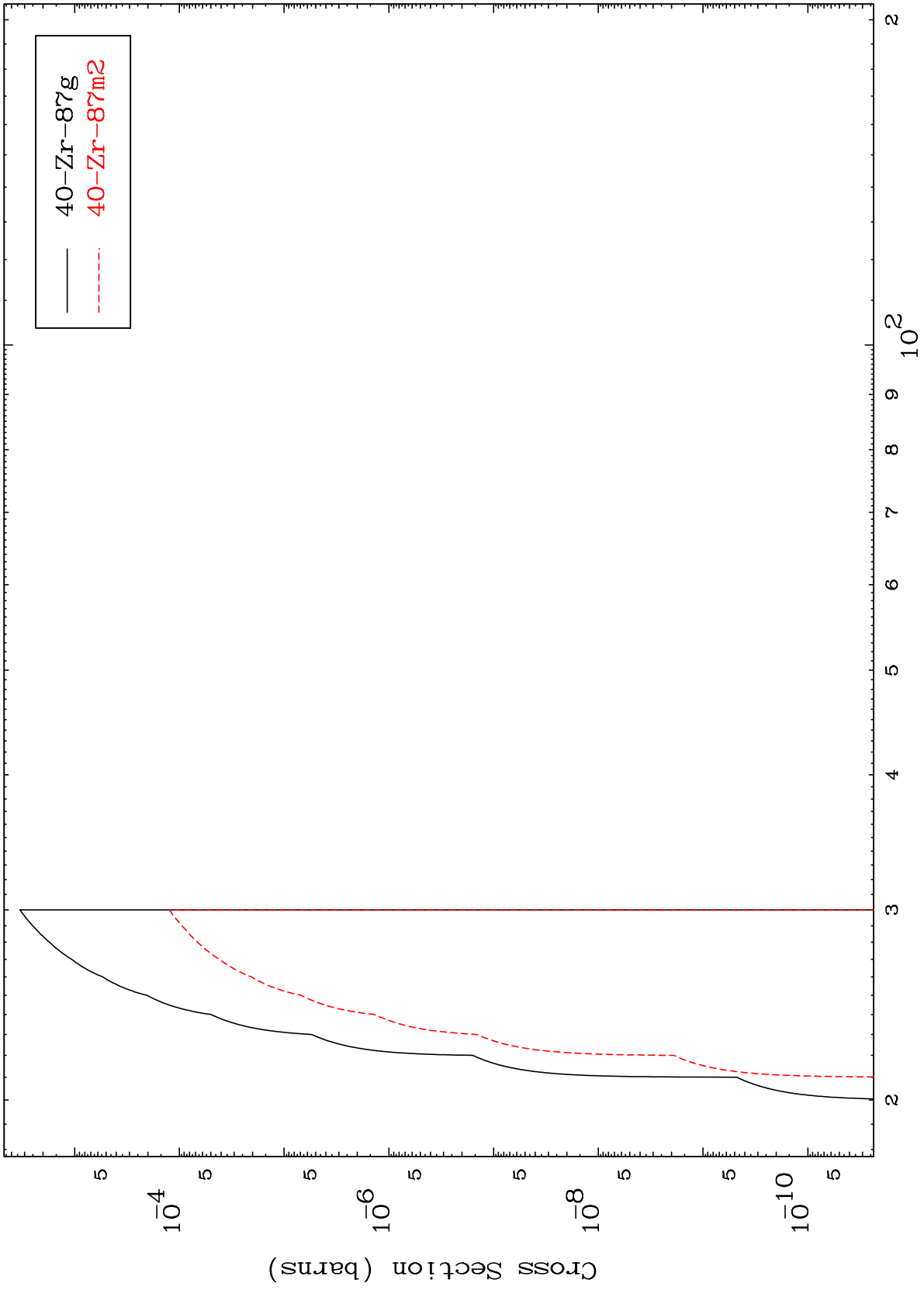
41-Nb-90

MAT 4117

(n,n') t

41-Nb-90

Radionuclide Production Cross Section



26

Incident Energy (MeV)

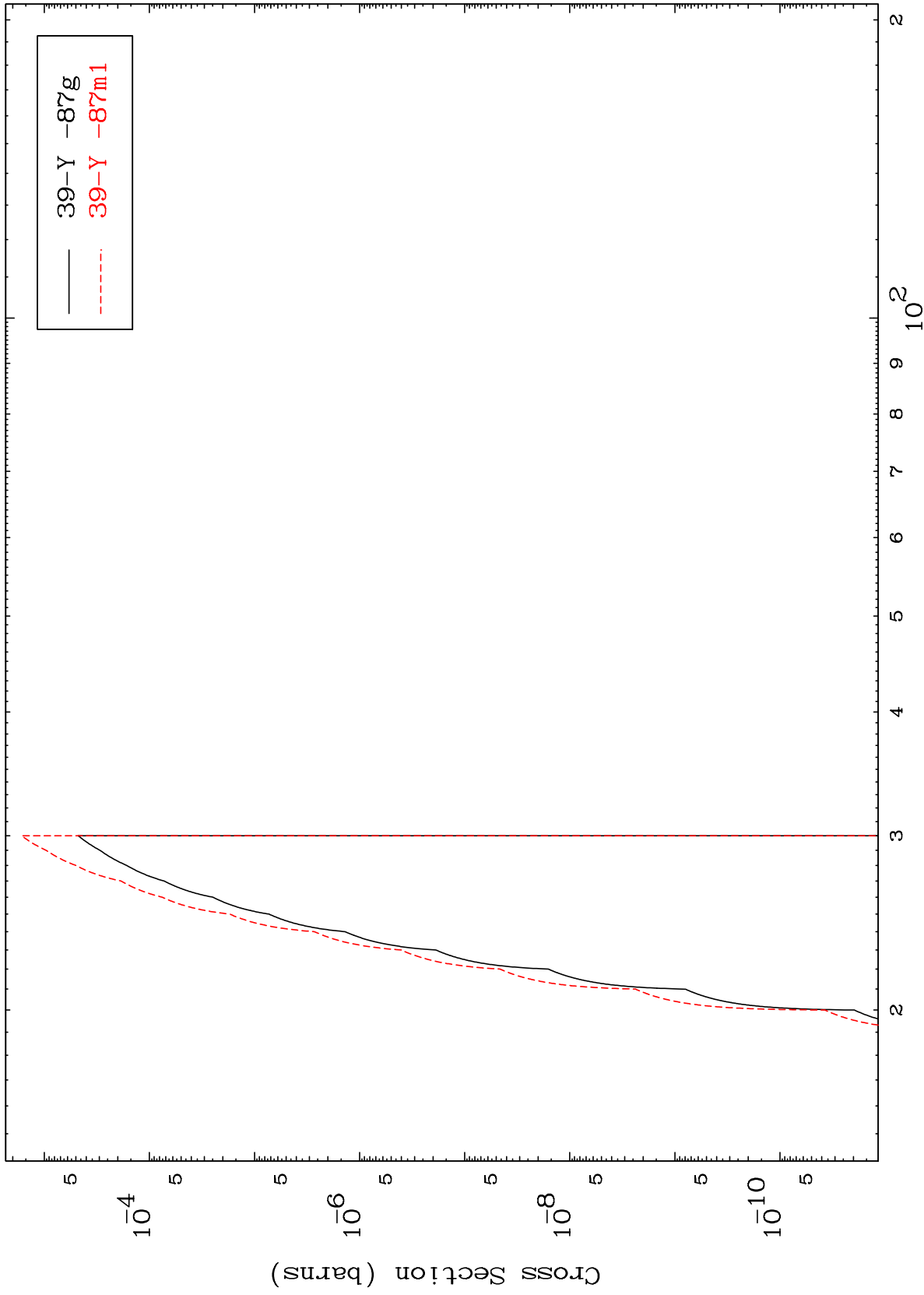
41-Nb-90

MAT 4117

(n, n') He-3

41-Nb-90

Radionuclide Production Cross Section



27

Incident Energy (MeV)

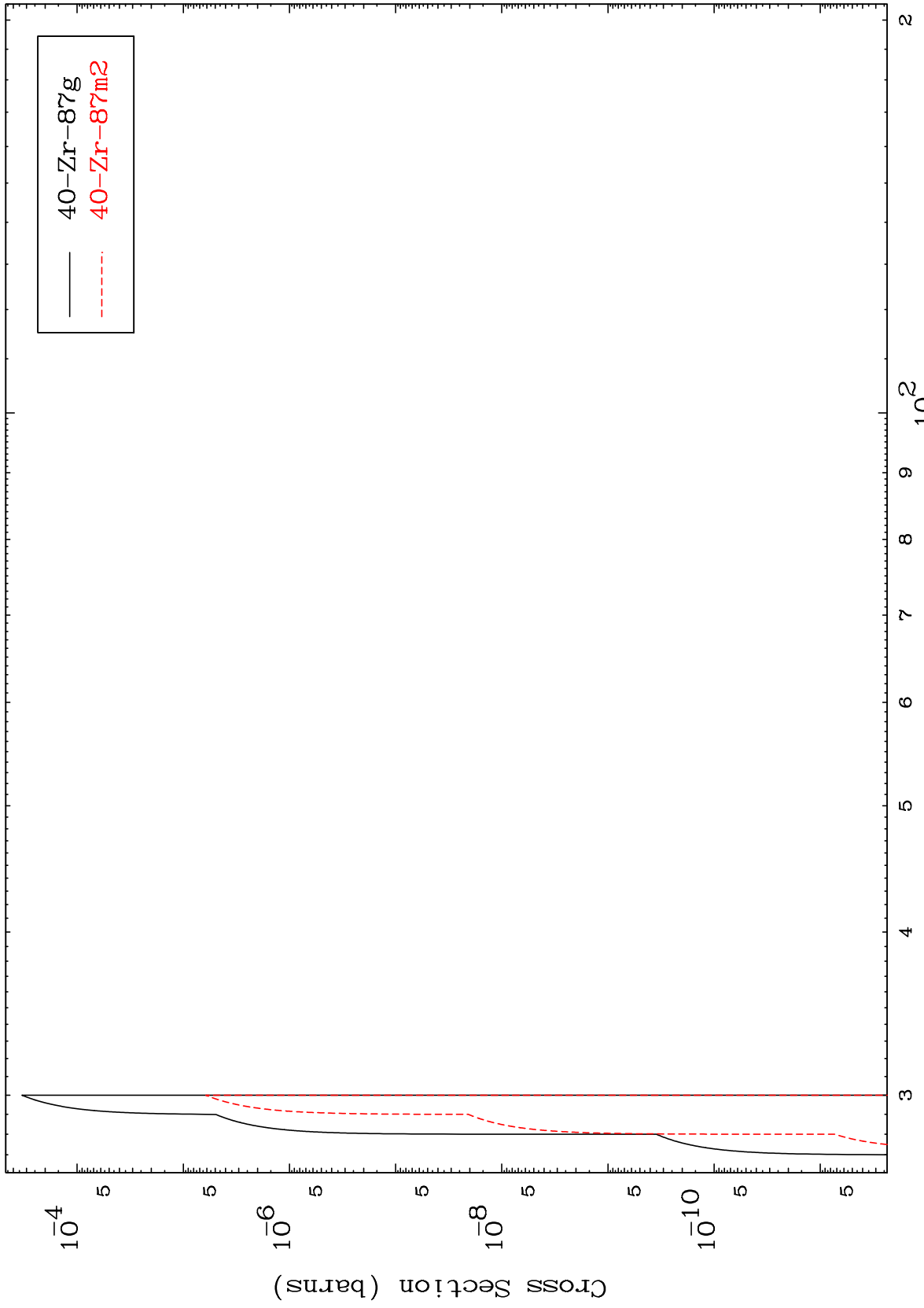
41-Nb-90

MAT 4117

(n,3n) p

41-Nb-90

Radionuclide Production Cross Section



28

Incident Energy (MeV)

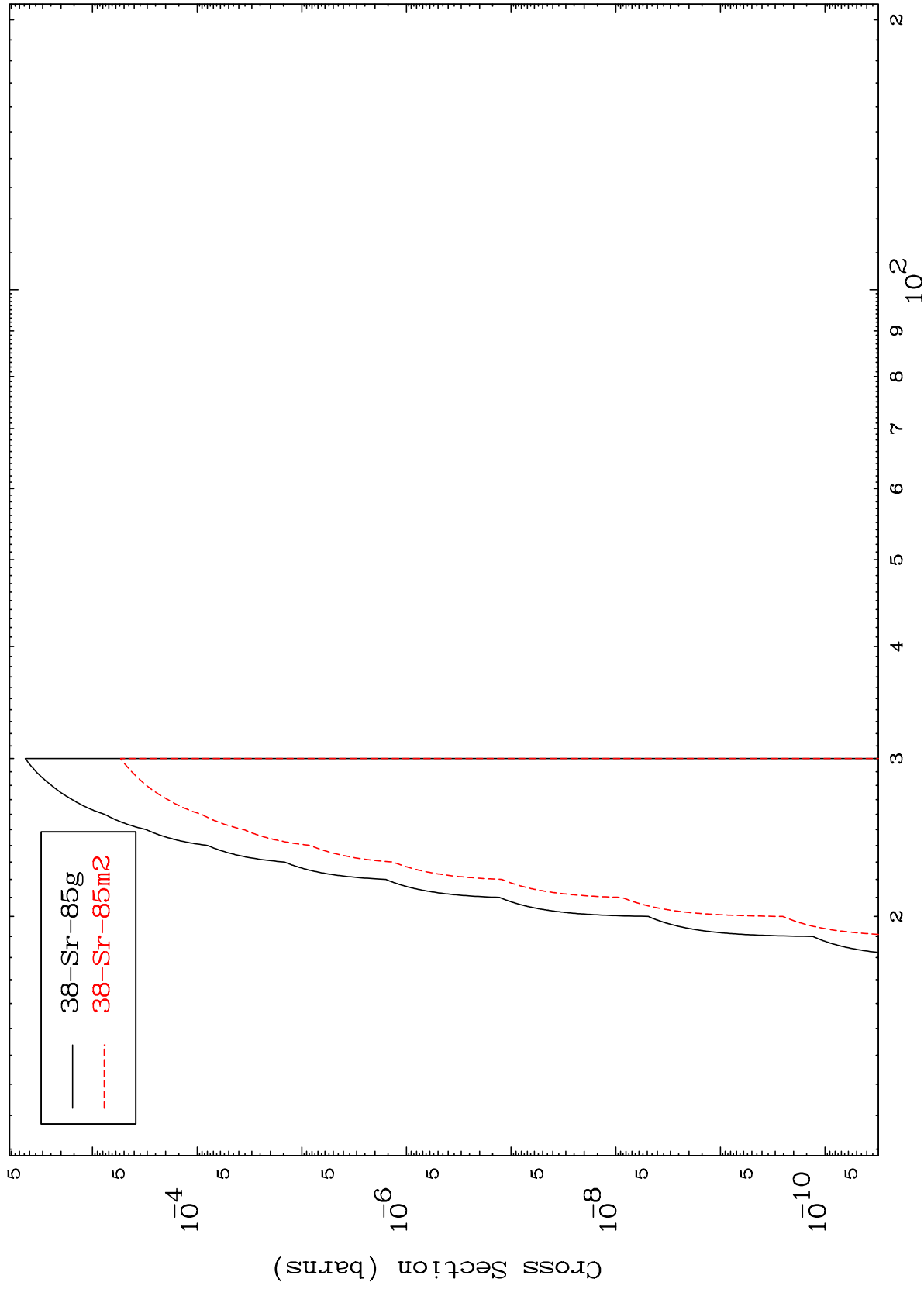
41-Nb-90

MAT 4117

(n,n') p α

41-Nb-90

Radionuclide Production Cross Section



29

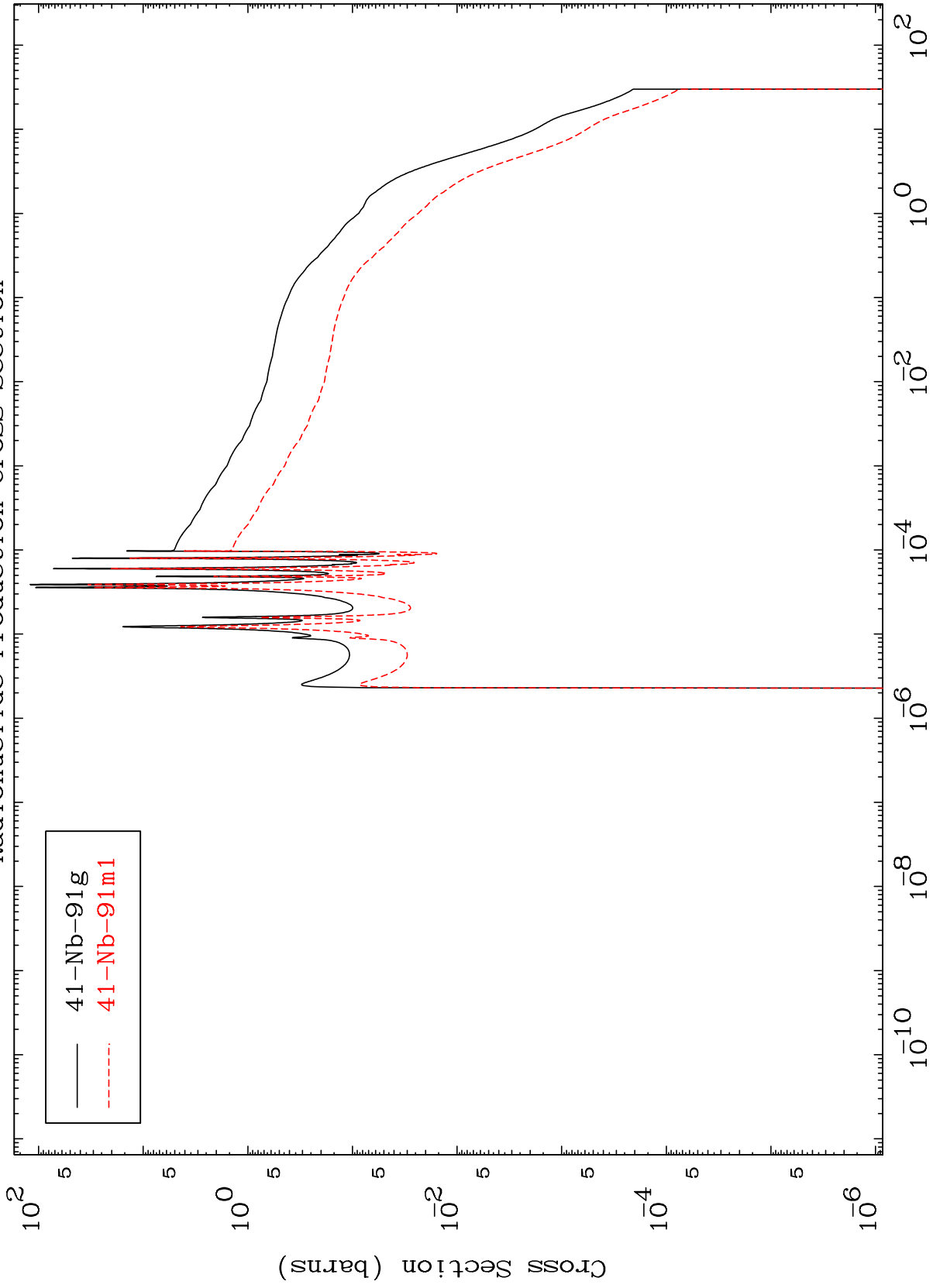
Incident Energy (MeV)

41-Nb-90

MAT 4117

41-Nb-90

Radionuclide Production Cross Section



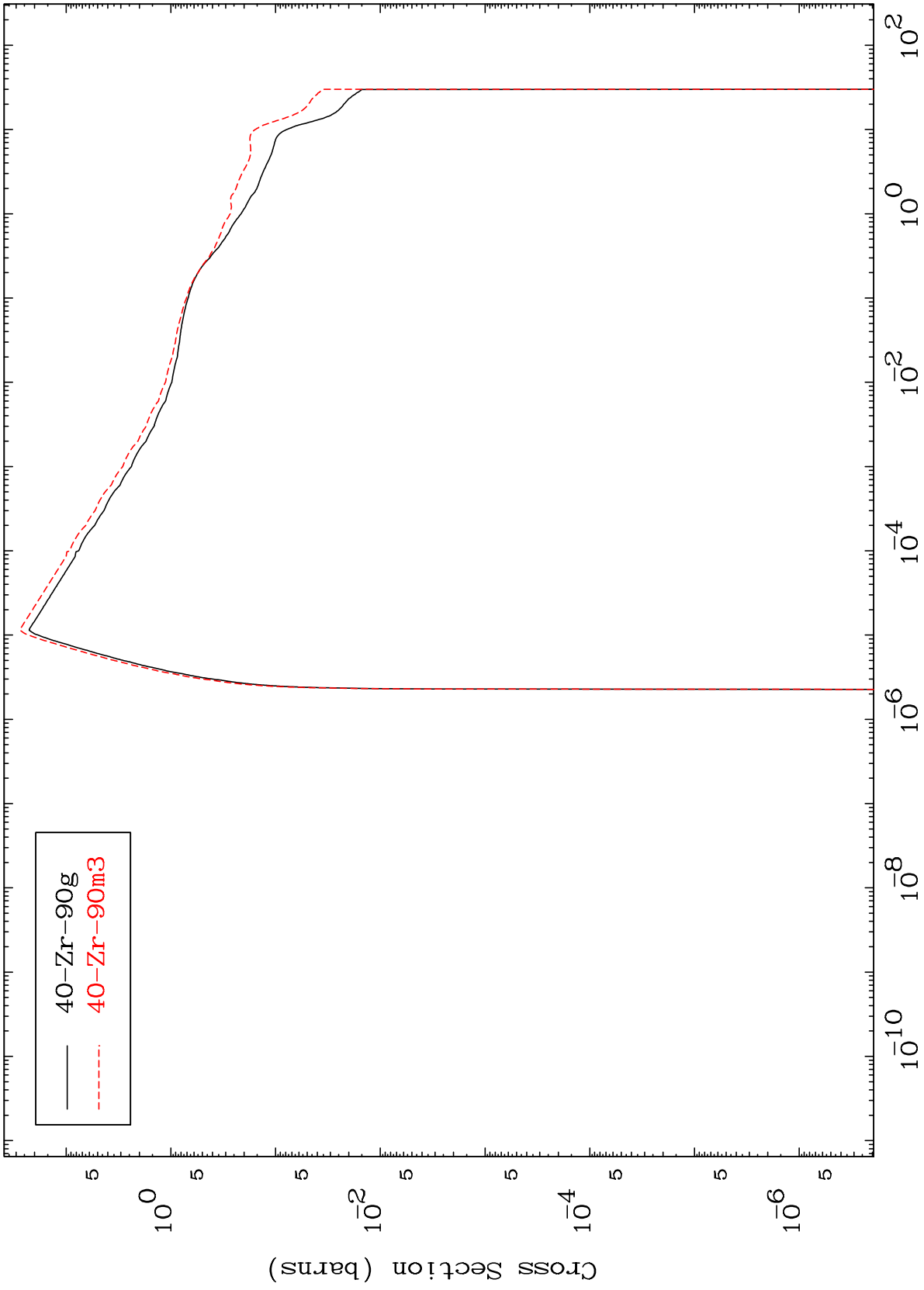
30

41-Nb-90

MAT 4117

41-Nb-90

Radionuclide Production Cross Section



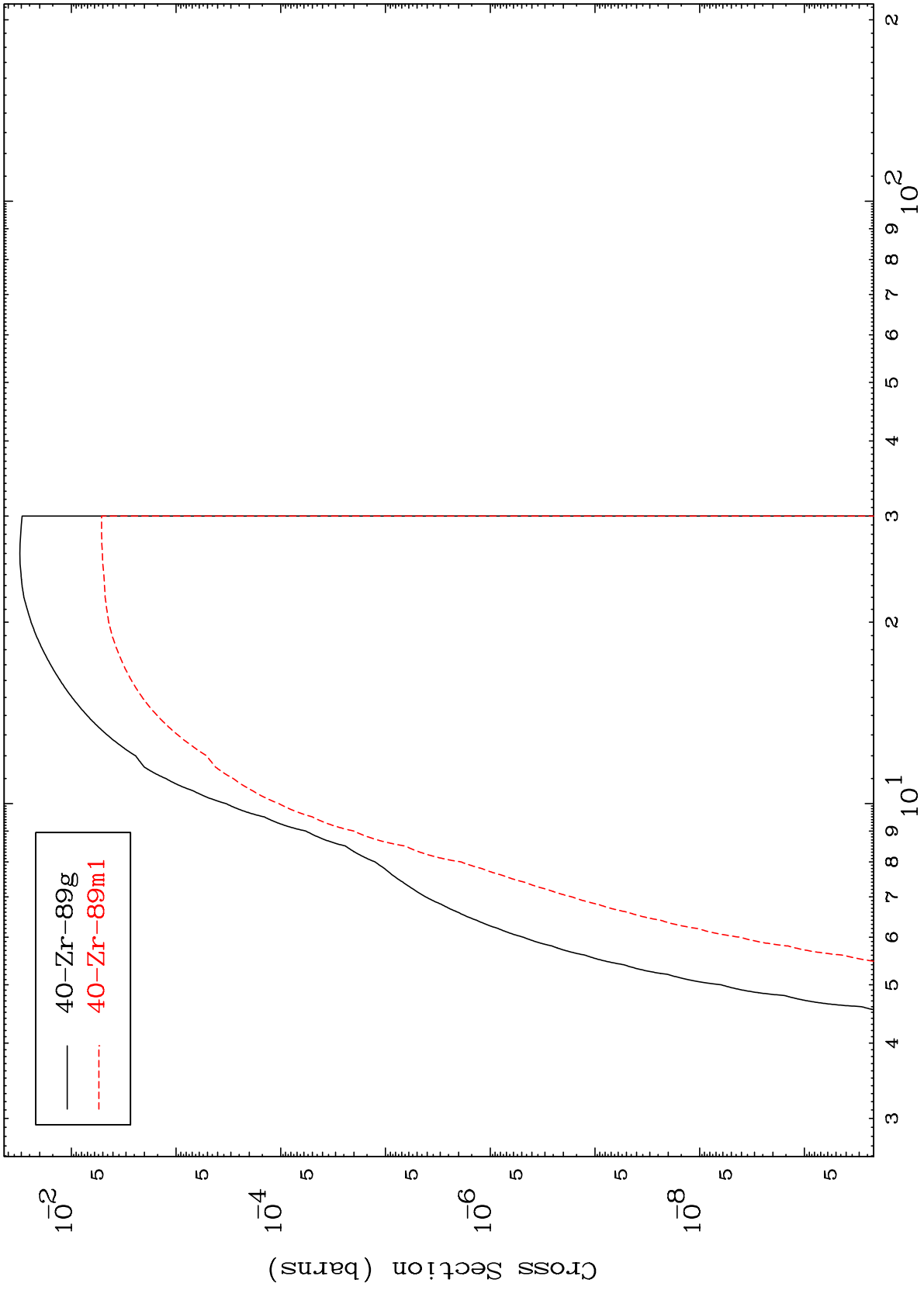
31

41-Nb-90

MAT 4117

Radionuclide Production Cross Section
(n,d)

41-Nb-90



32

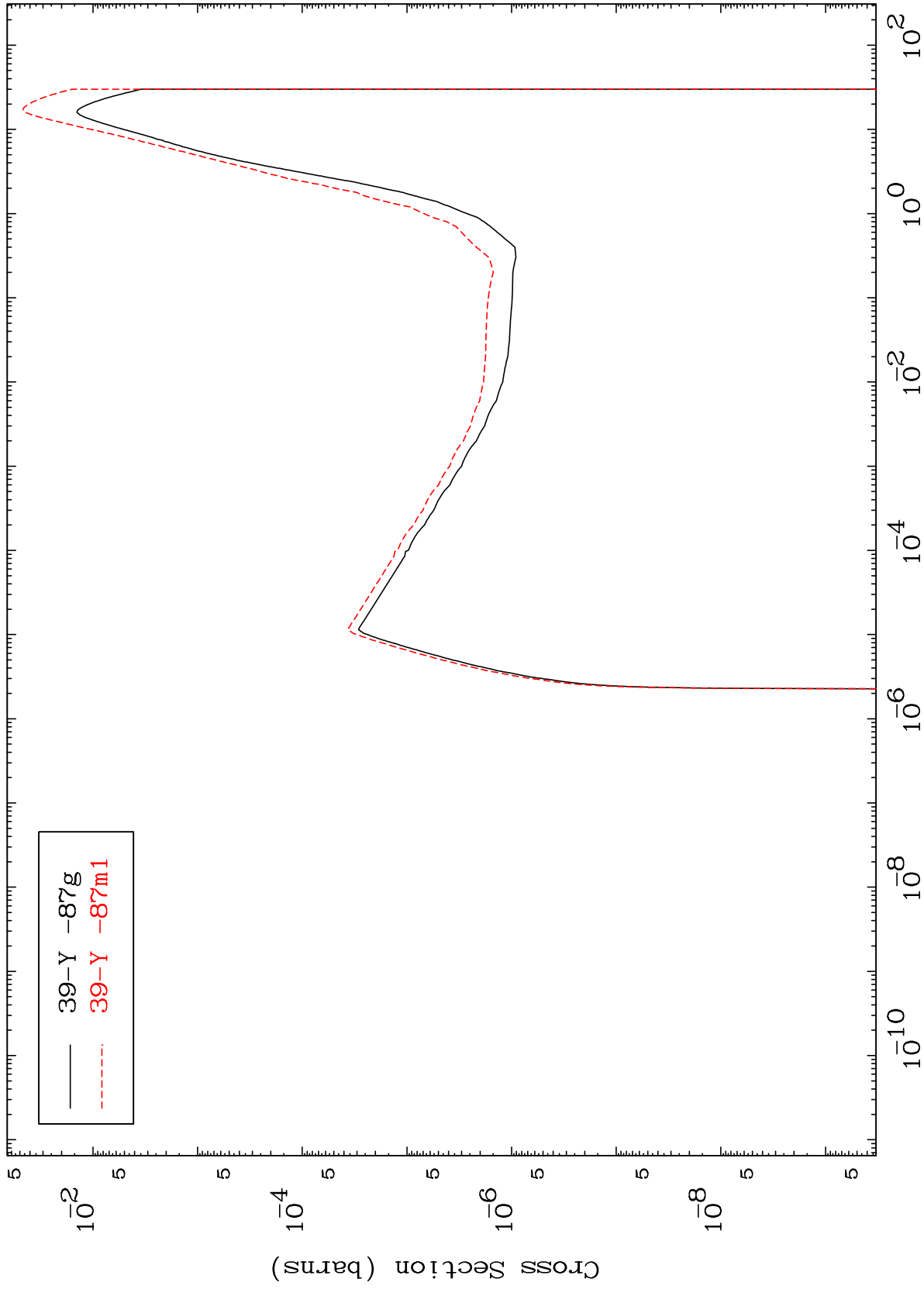
Incident Energy (MeV)

41-Nb-90

MAT 4117

(n, α)
Radionuclide Production Cross Section

41-Nb-90



33

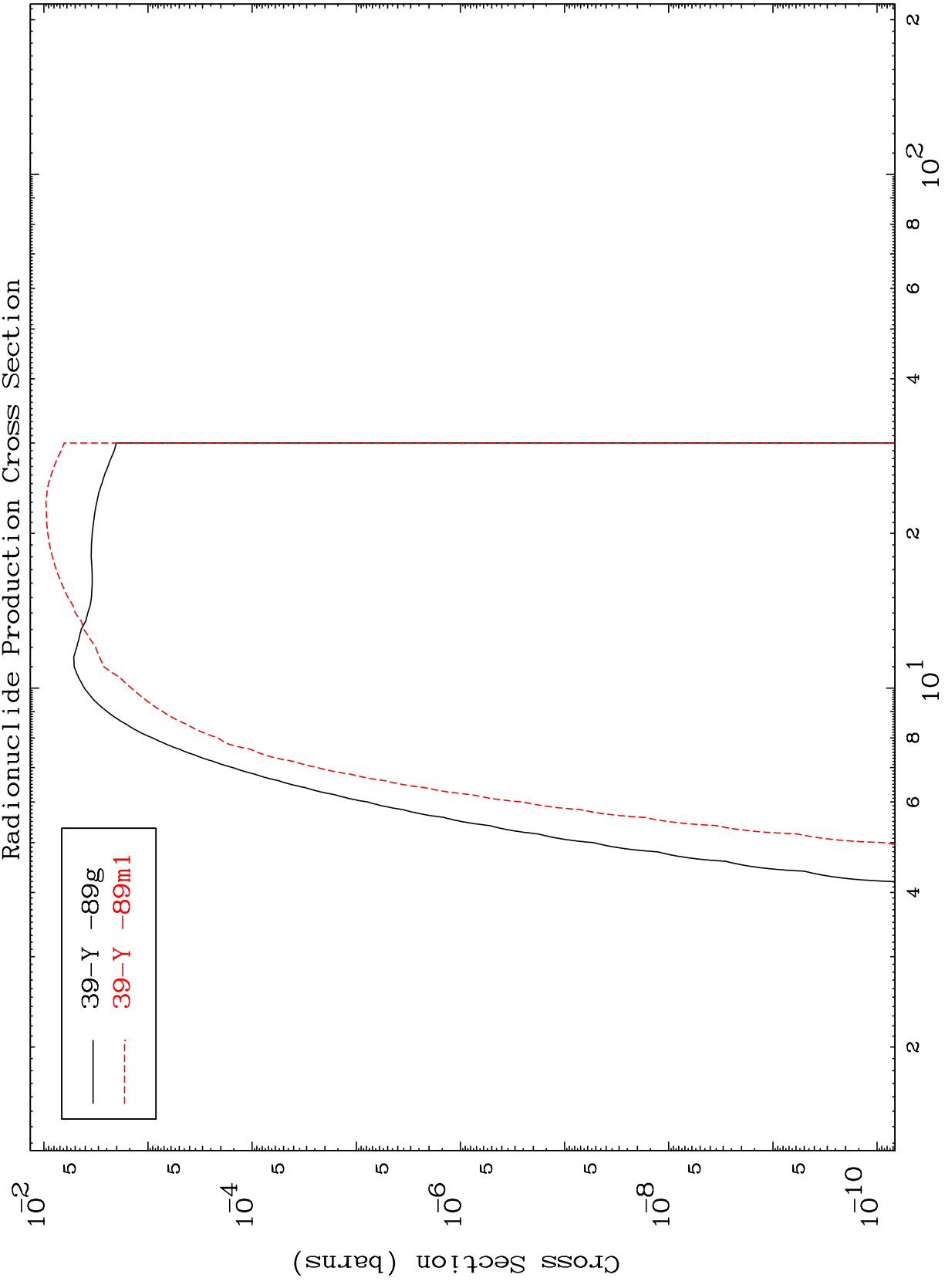
Incident Energy (MeV)

41-Nb-90

MAT 4117

41-Nb-90

Radionuclide Production Cross Section
(n,2p)



39-Y -89g
39-Y -89m1

34

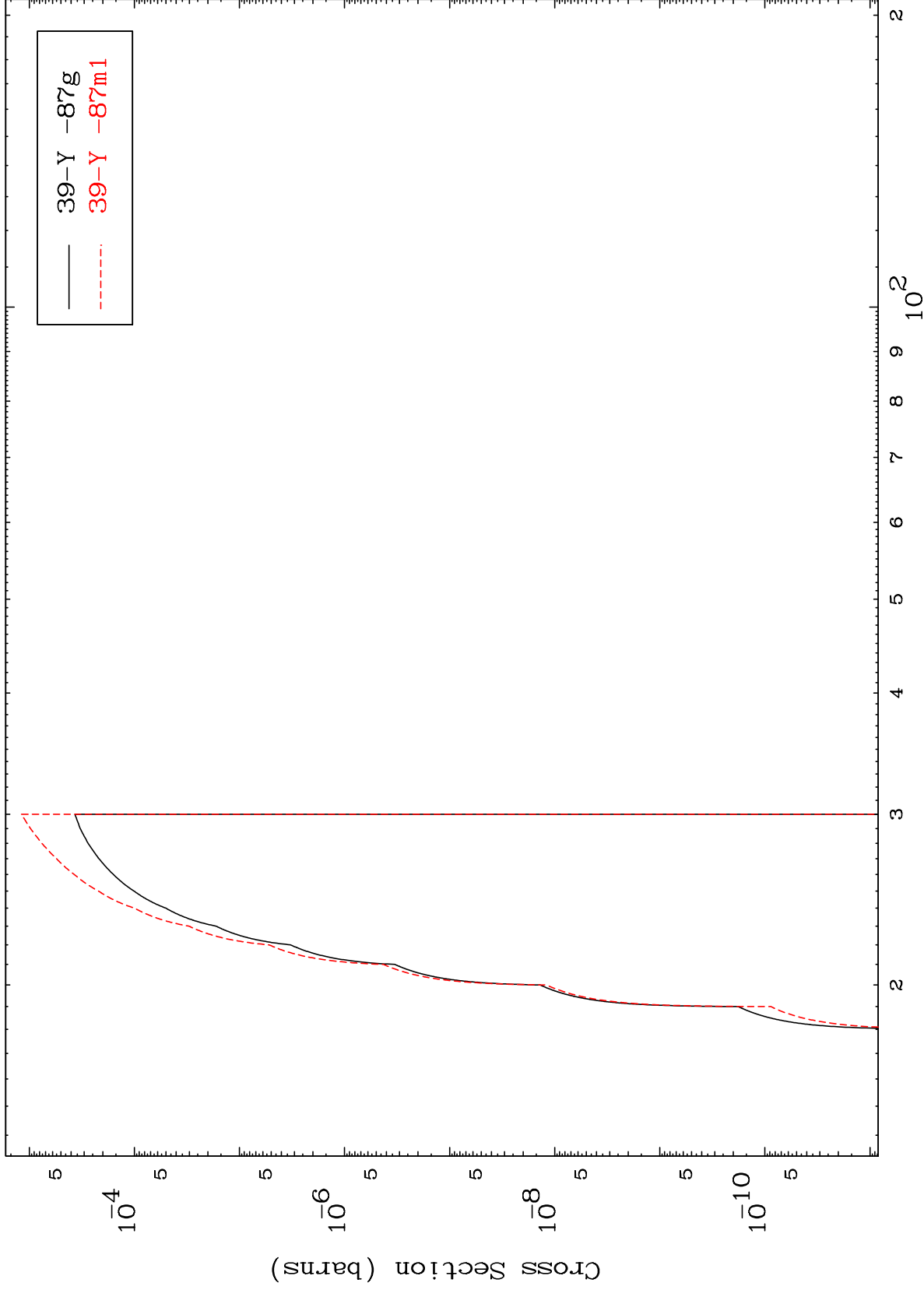
41-Nb-90

MAT 4117

(n,p) t

41-Nb-90

Radionuclide Production Cross Section



35

Incident Energy (MeV)

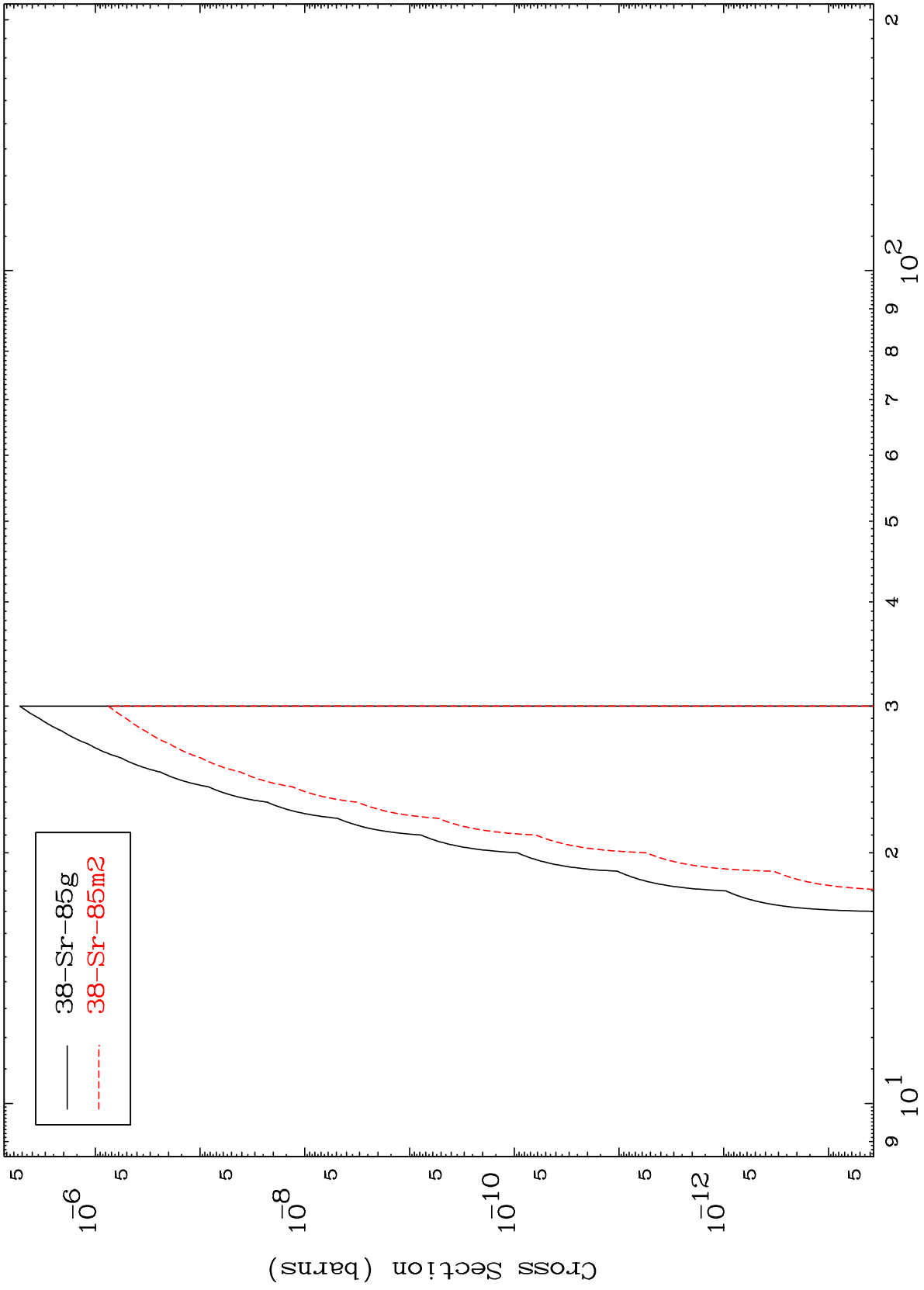
41-Nb-90

MAT 4117

(n,d) α

41-Nb-90

Radionuclide Production Cross Section



38-Sr-85g
38-Sr-85m2

36

Incident Energy (MeV)

41-Nb-90