

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

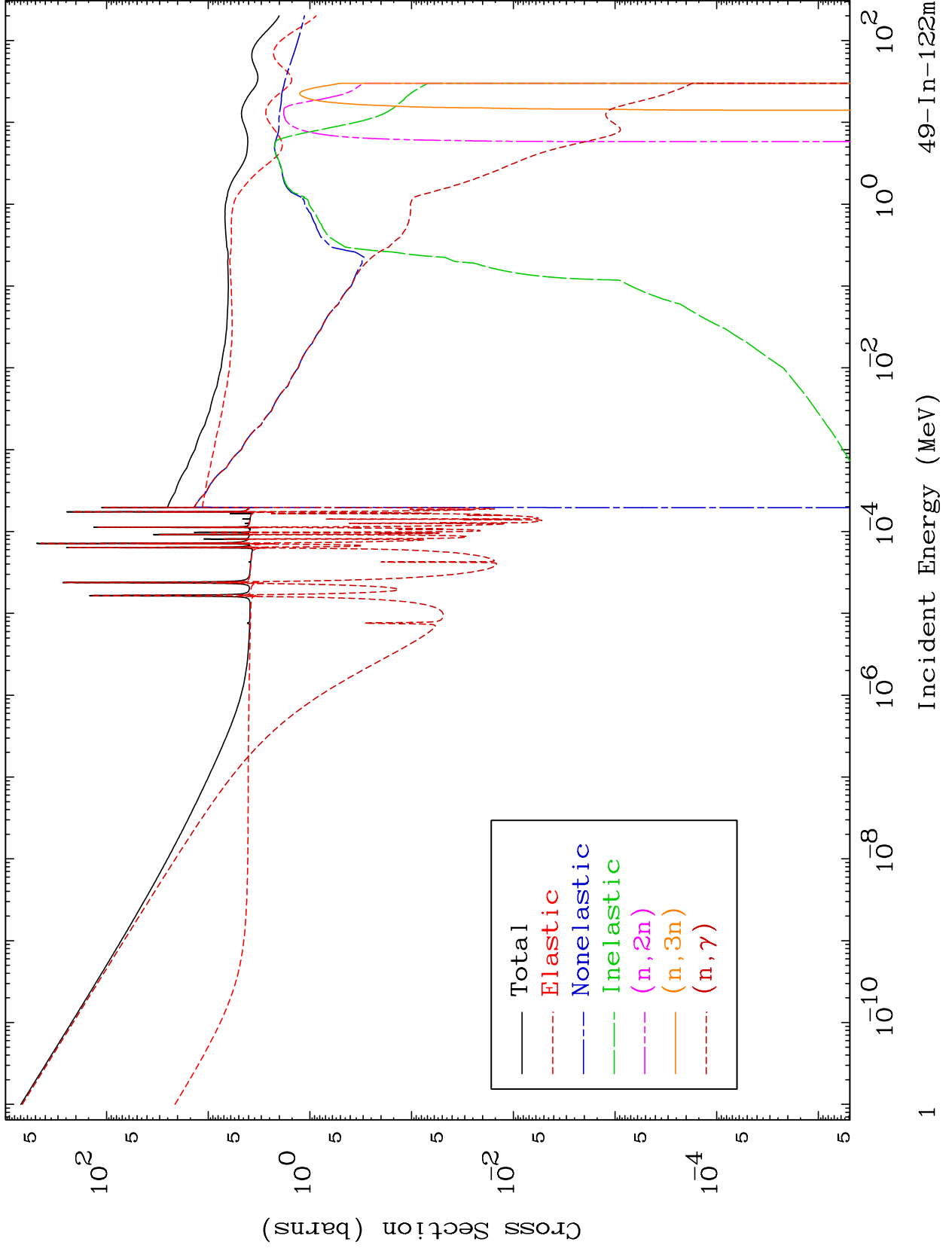
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4953

Neutron Major  
293 Kelvin Cross Sections

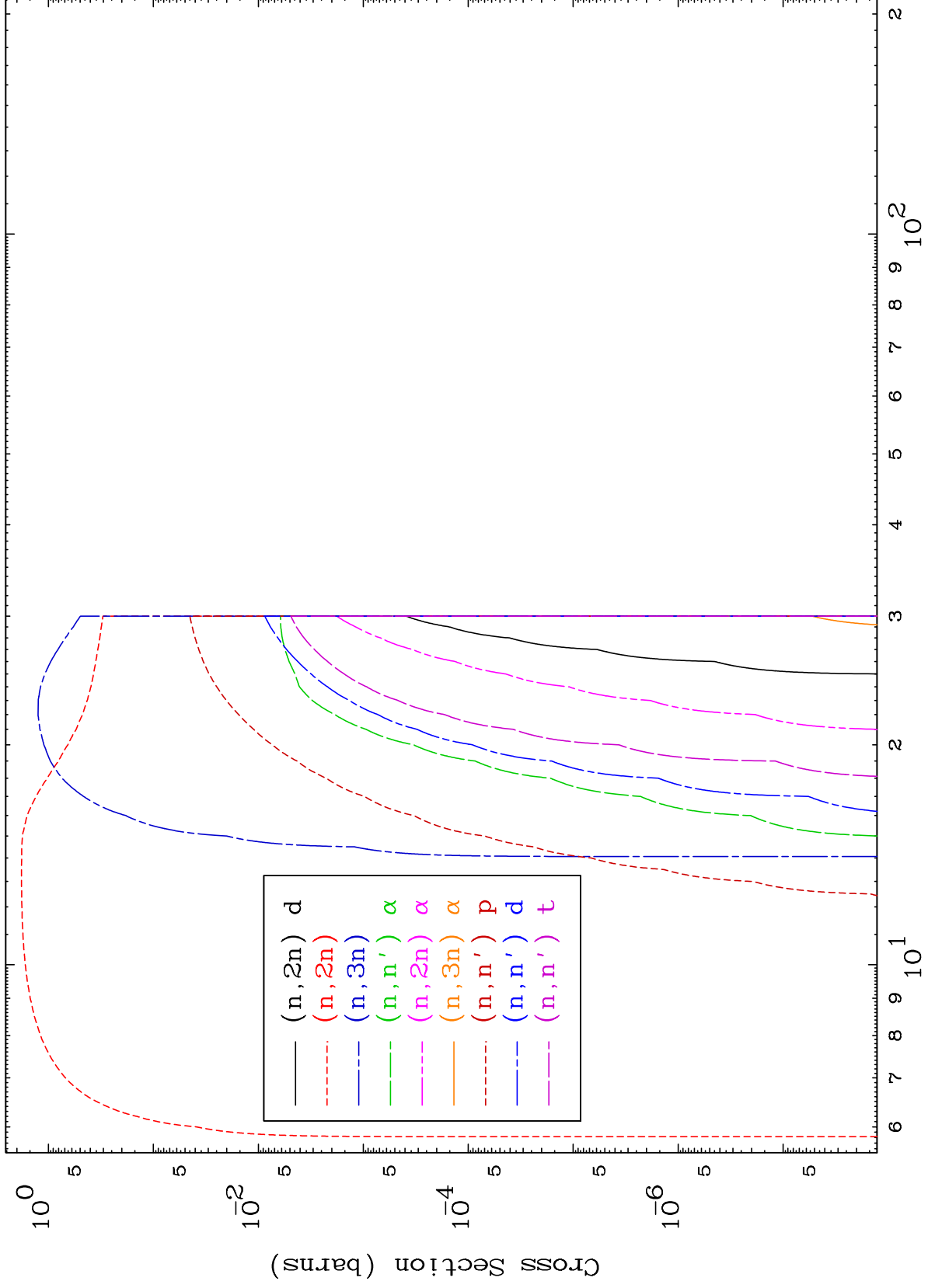
49-In-122m



MAT 4953

Neutron Absorption  
293 Kelvin Cross Sections

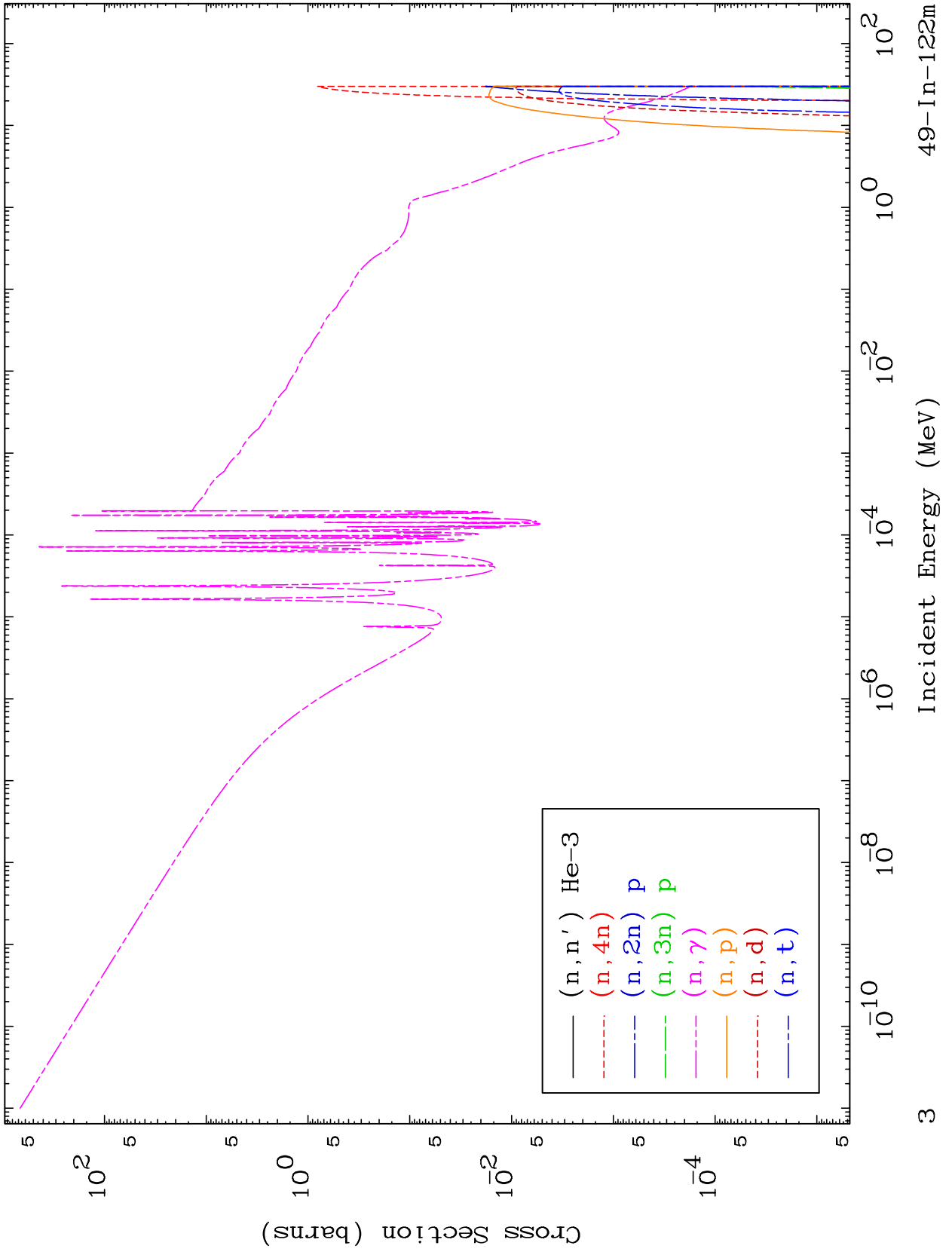
49-In-122m



MAT 4953

Neutron Absorption  
293 Kelvin Cross Sections

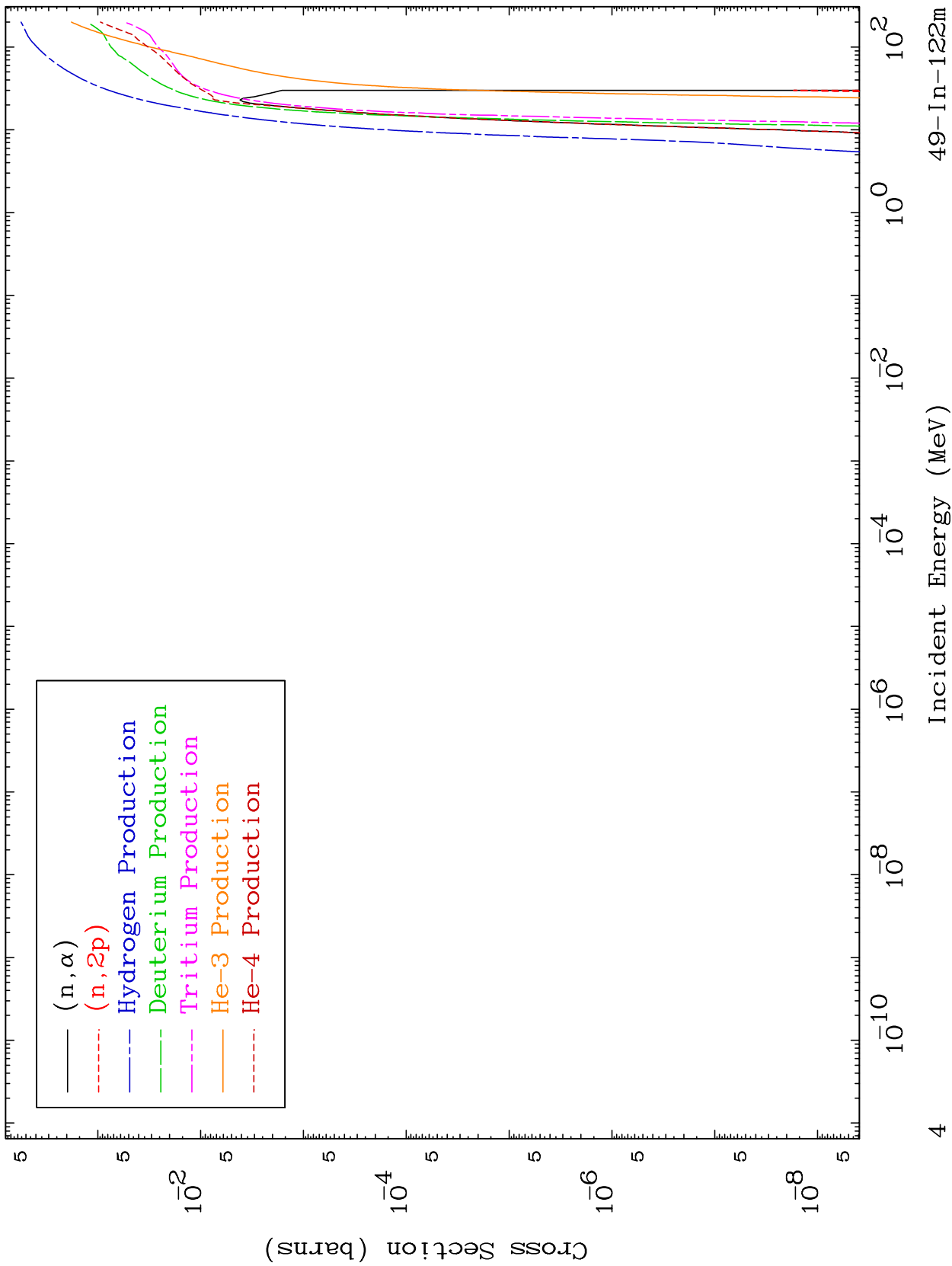
49-In-122m



MAT 4953

Neutron Absorption  
293 Kelvin Cross Sections

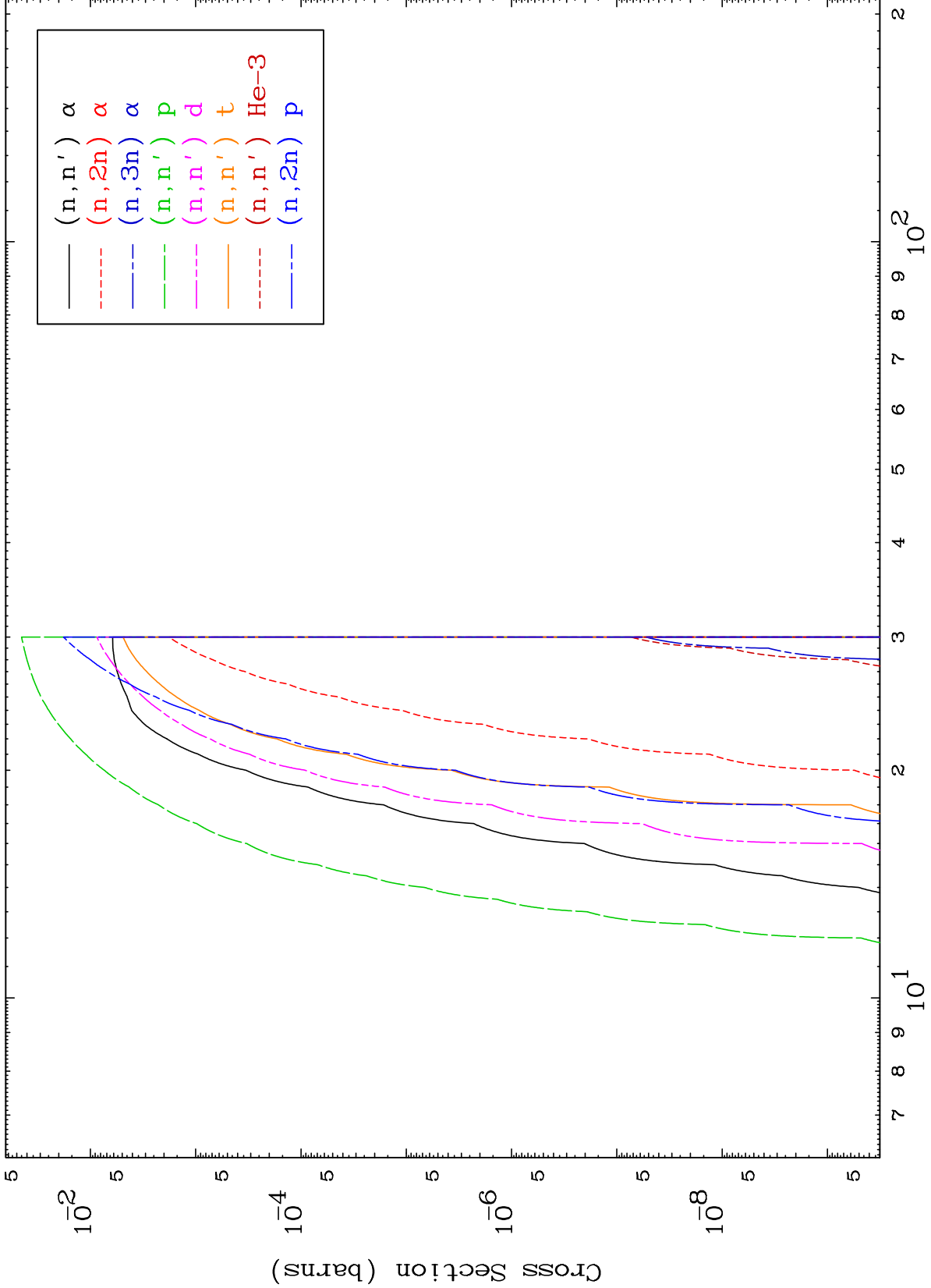
49-In-122m



MAT 4953

Charged Particle  
293 Kelvin Cross Sections

49-In-122m



5

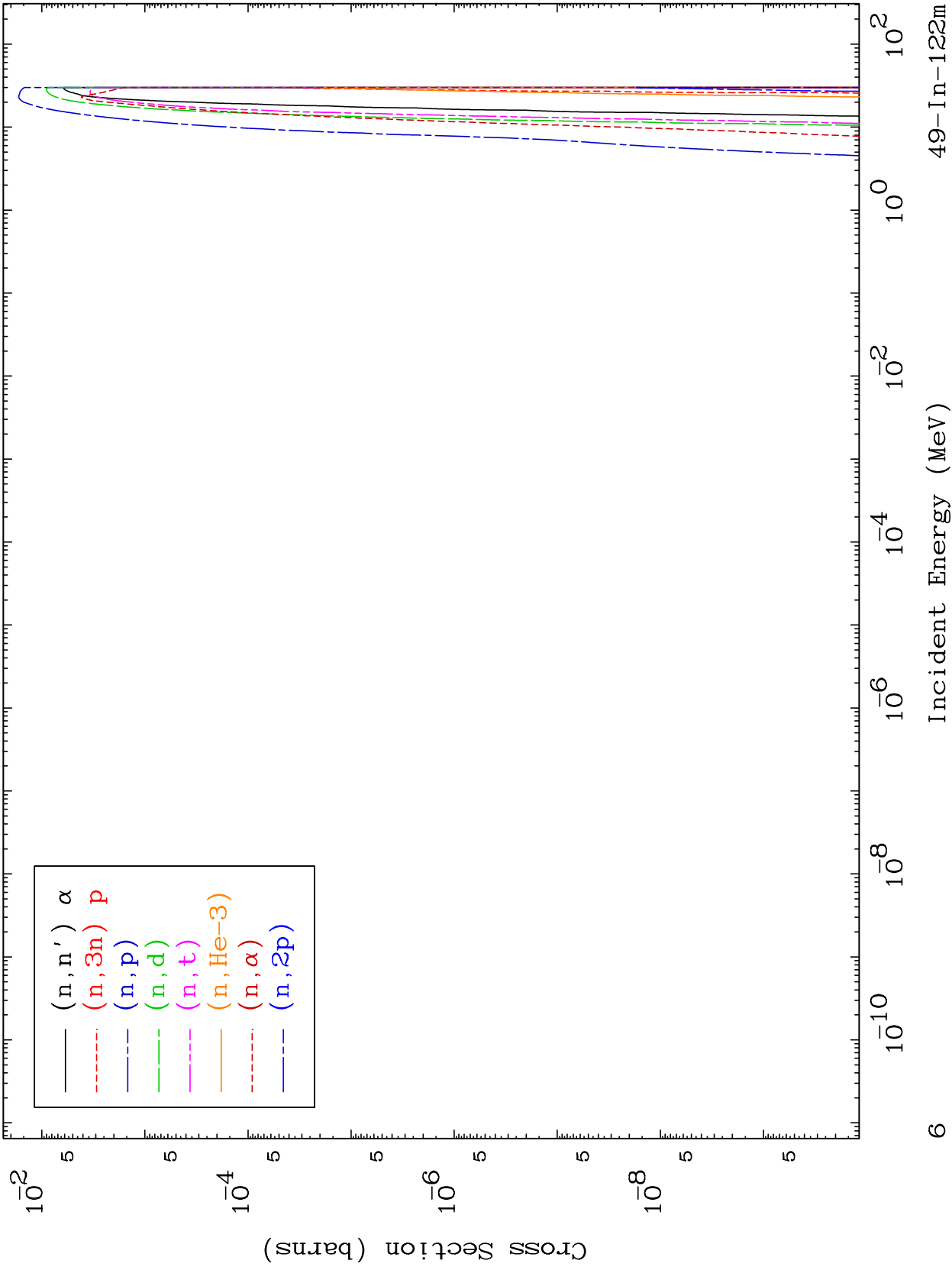
Incident Energy (MeV)

49-In-122m

MAT 4953

Charged Particle  
293 Kelvin Cross Sections

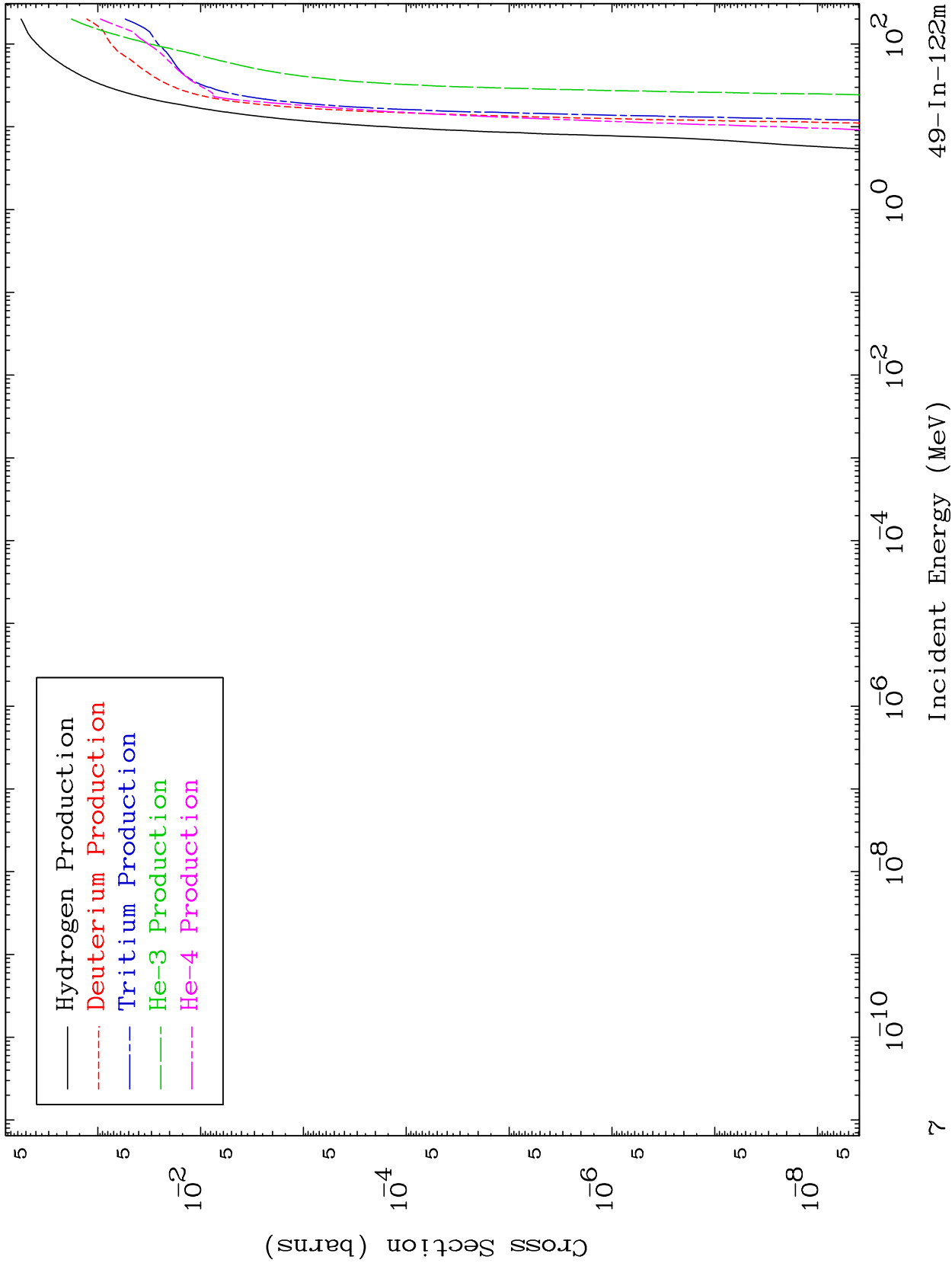
49-In-122m



MAT 4953

Particle Production  
293 Kelvin Cross Sections

49-In-122m

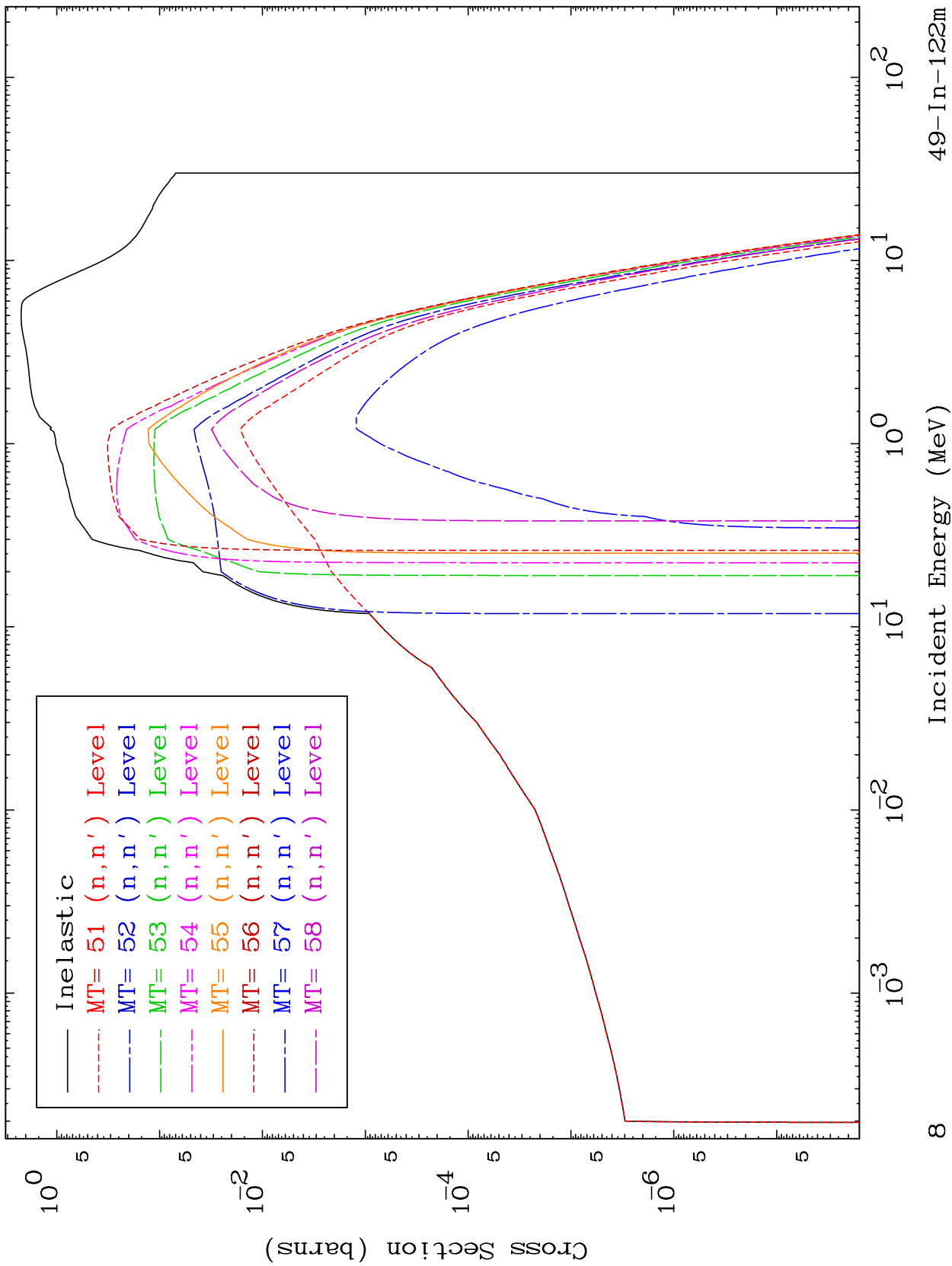




MAT 4953

293 Kelvin Cross Sections  
(n,n') Levels

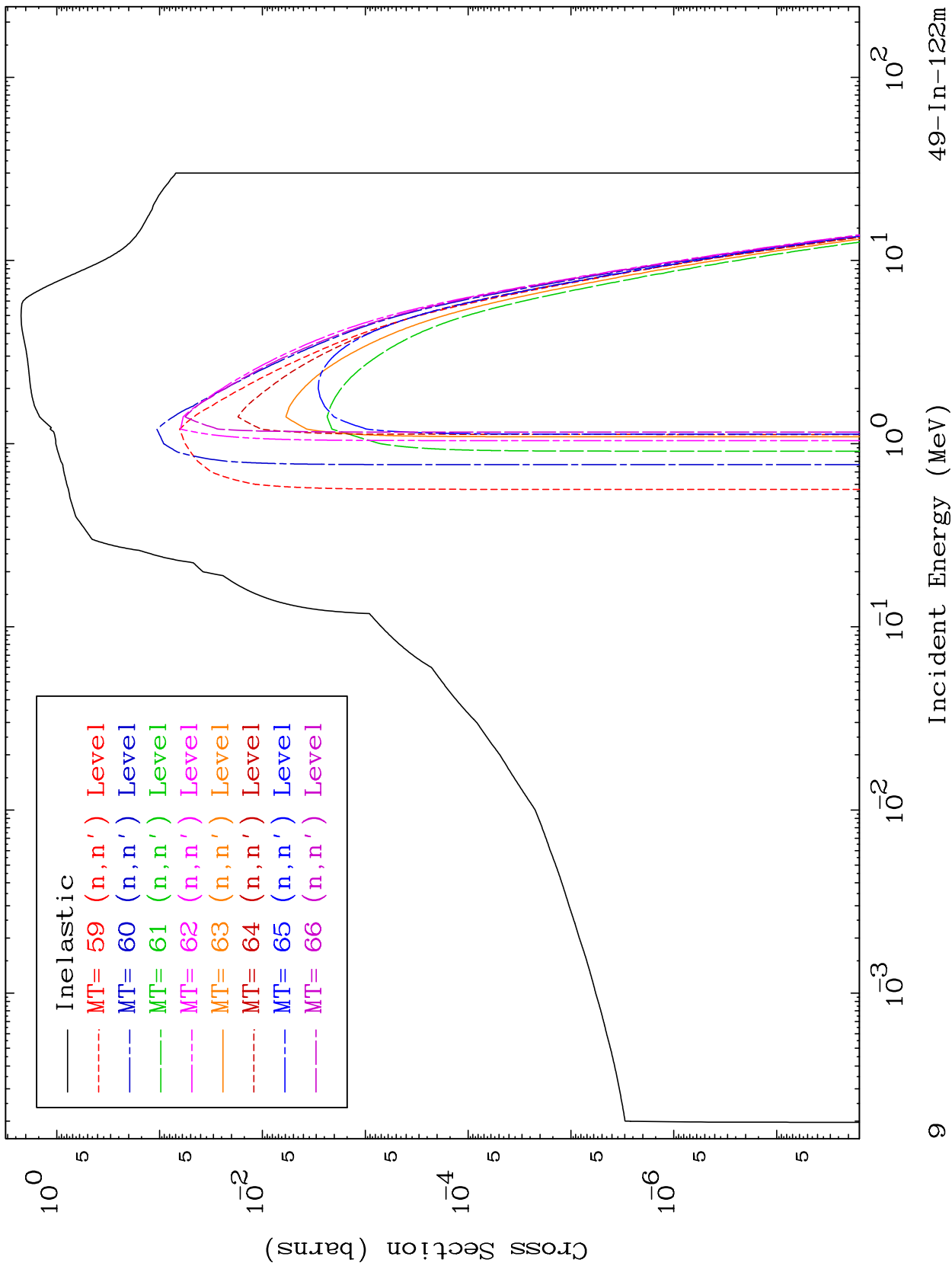
49-In-122m



MAT 4953

(n,n') Levels  
293 Kelvin Cross Sections

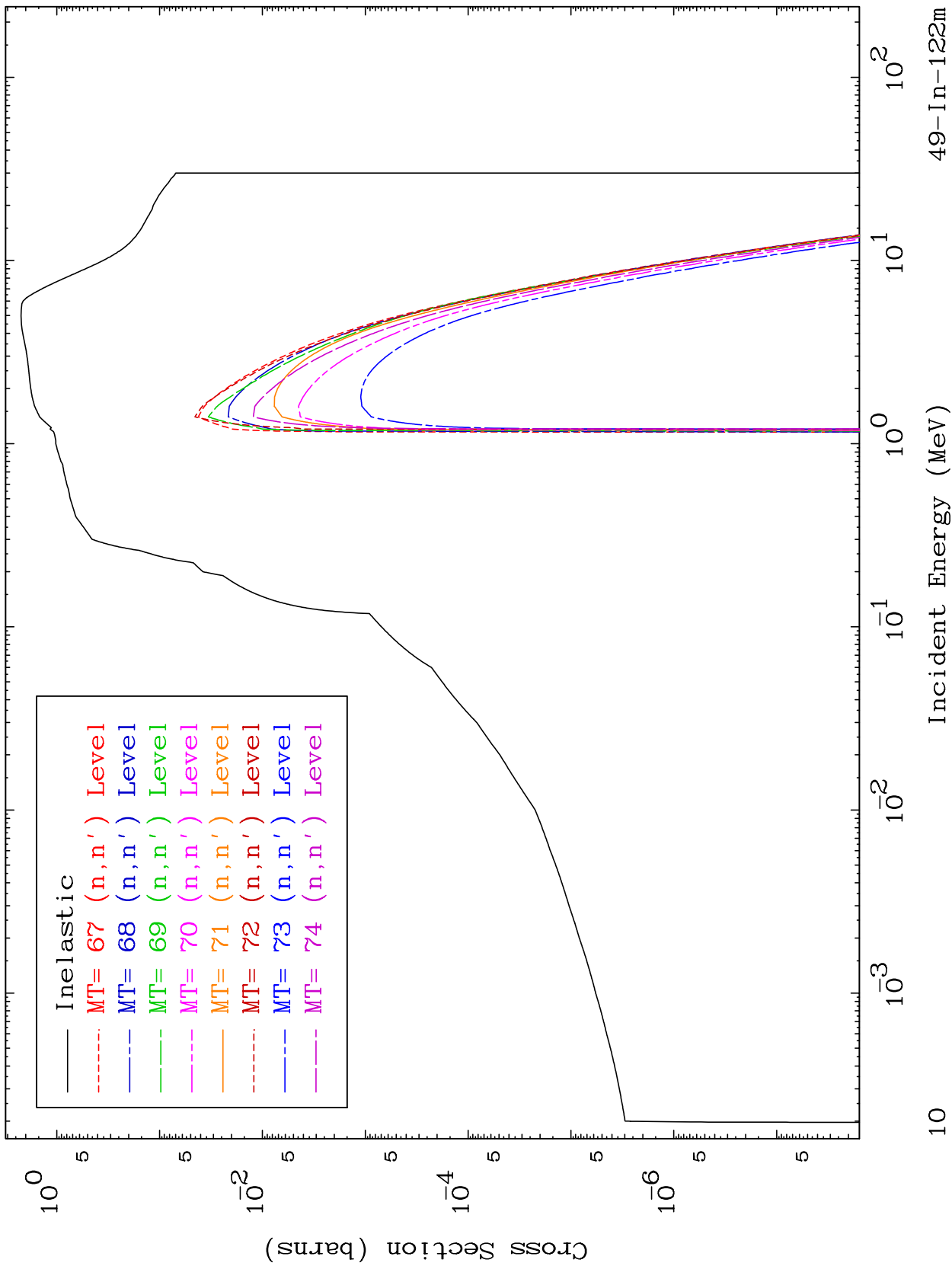
49-In-122m



MAT 4953

(n,n') Levels  
293 Kelvin Cross Sections

49-In-122m



10

Incident Energy (MeV)

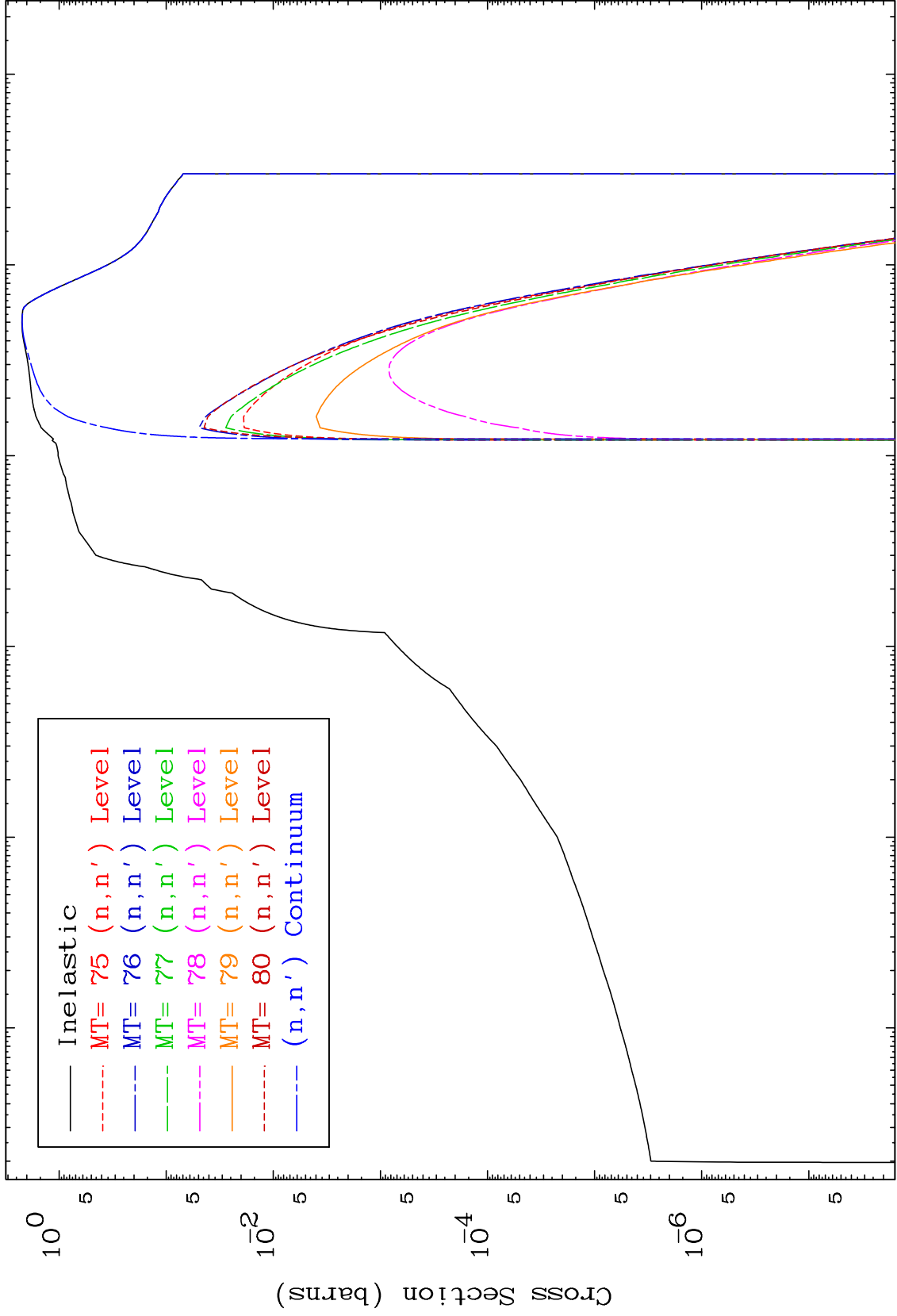
49-In-122m

MAT 4953

(n,n') Levels

49-In-122m

293 Kelvin Cross Sections



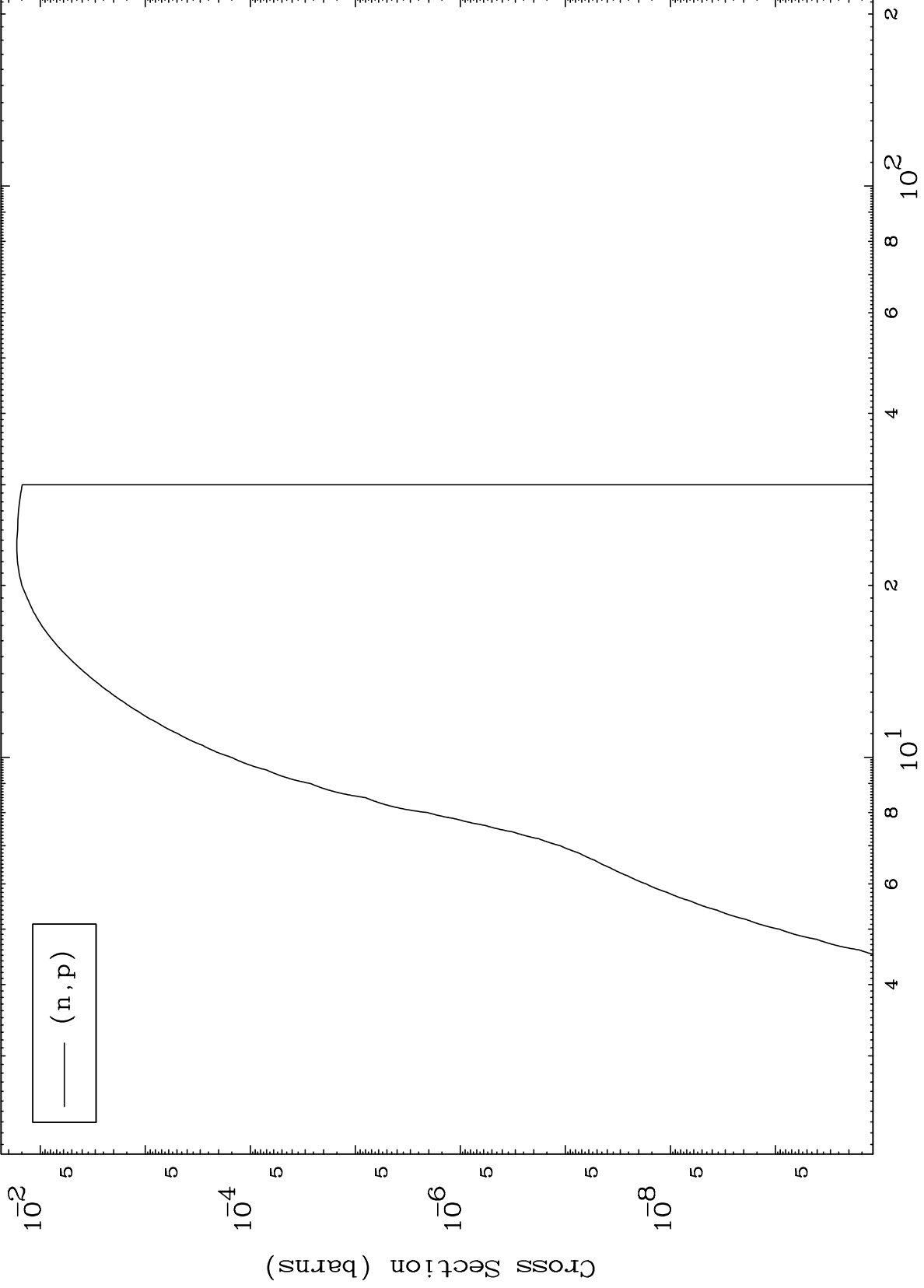
49-In-122m

Incident Energy (MeV)

MAT 4953

(n,p) Levels  
293 Kelvin Cross Sections

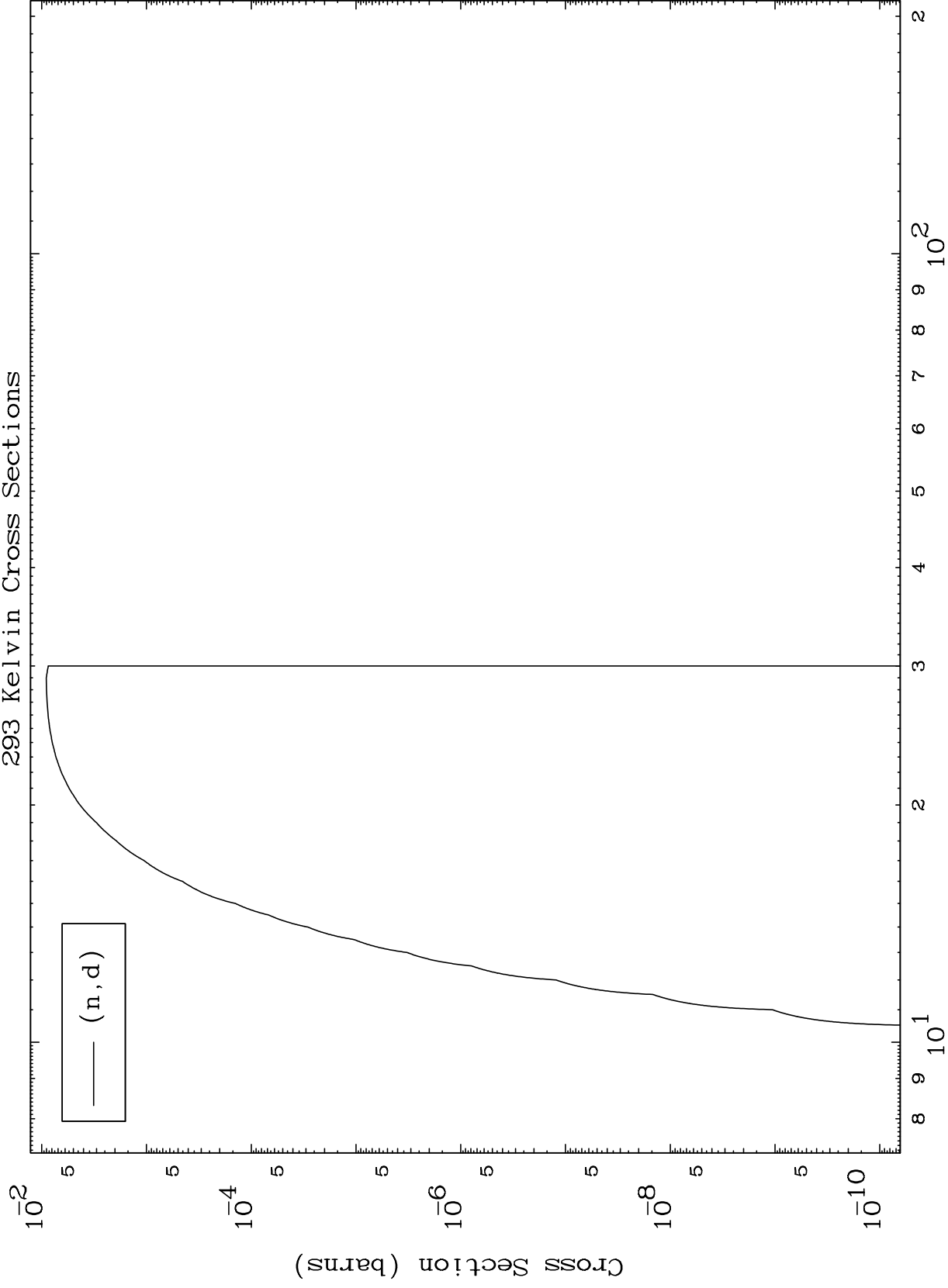
49-In-122m



MAT 4953

(n,d) Levels  
293 Kelvin Cross Sections

49-In-122m



13

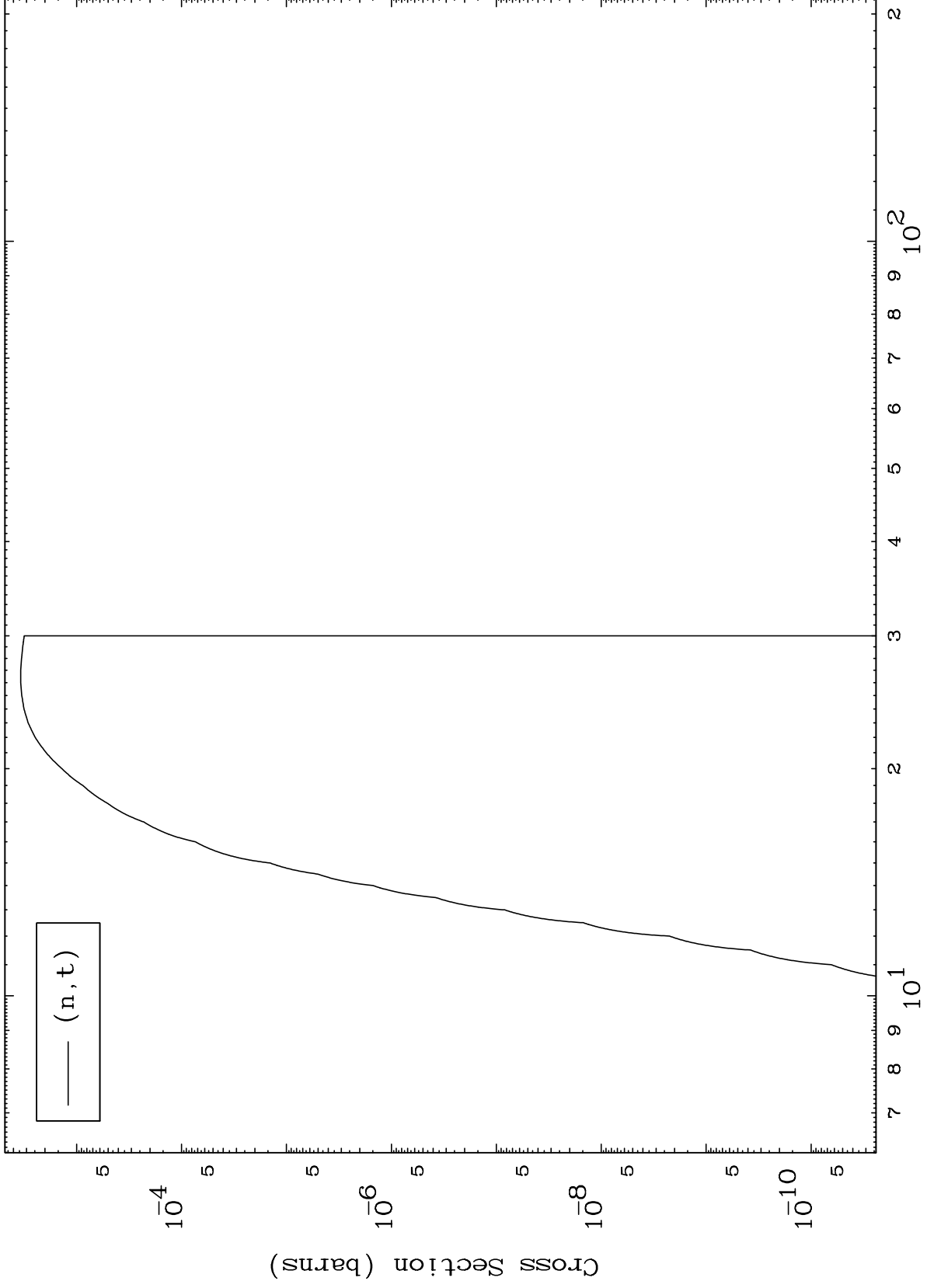
Incident Energy (MeV)

49-In-122m

MAT 4953

(n,t) Levels  
293 Kelvin Cross Sections

49-In-122m



14

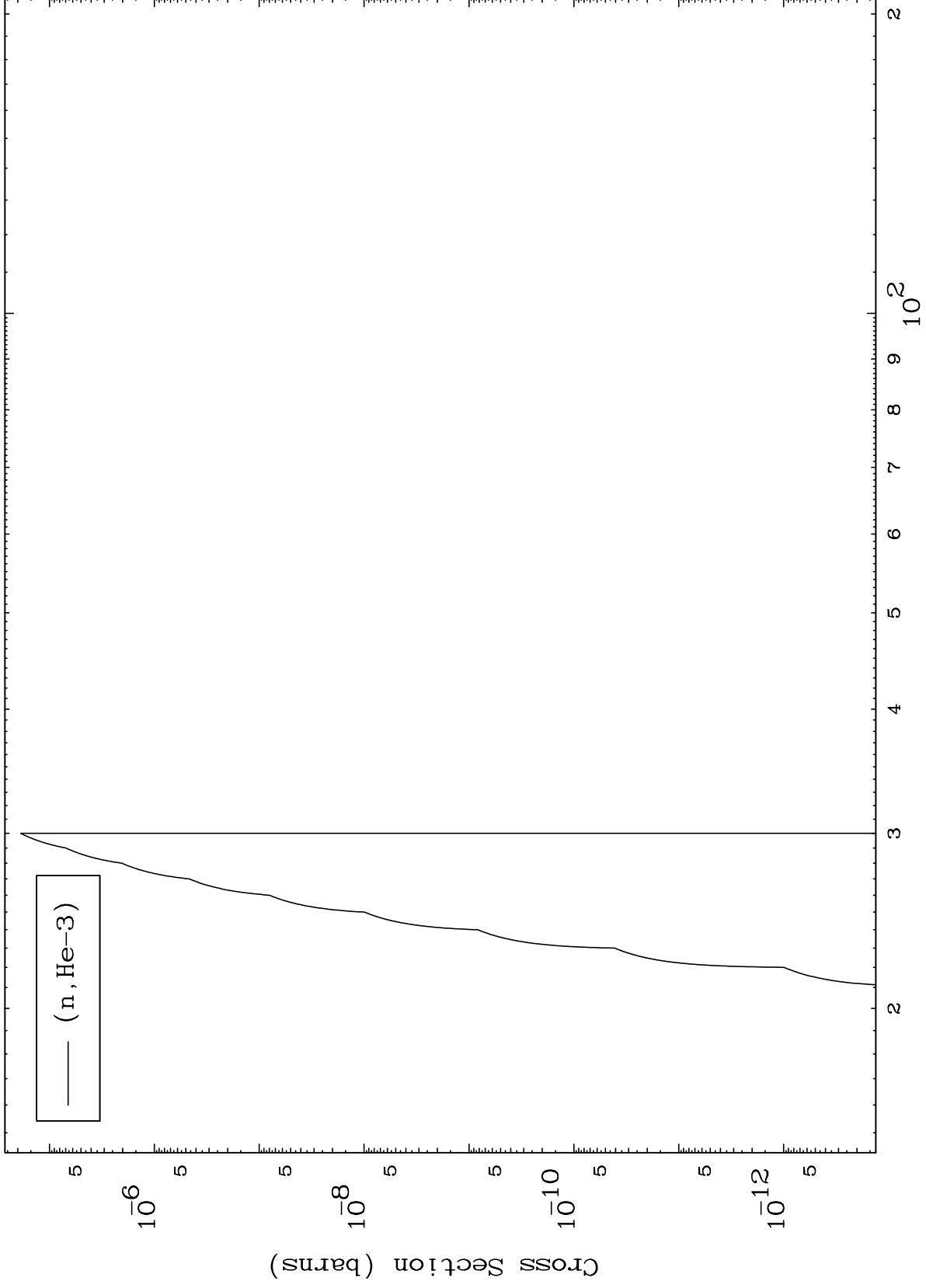
Incident Energy (MeV)

49-In-122m

MAT 4953

(n,He3) Levels  
293 Kelvin Cross Sections

49-In-122m



15

Incident Energy (MeV)

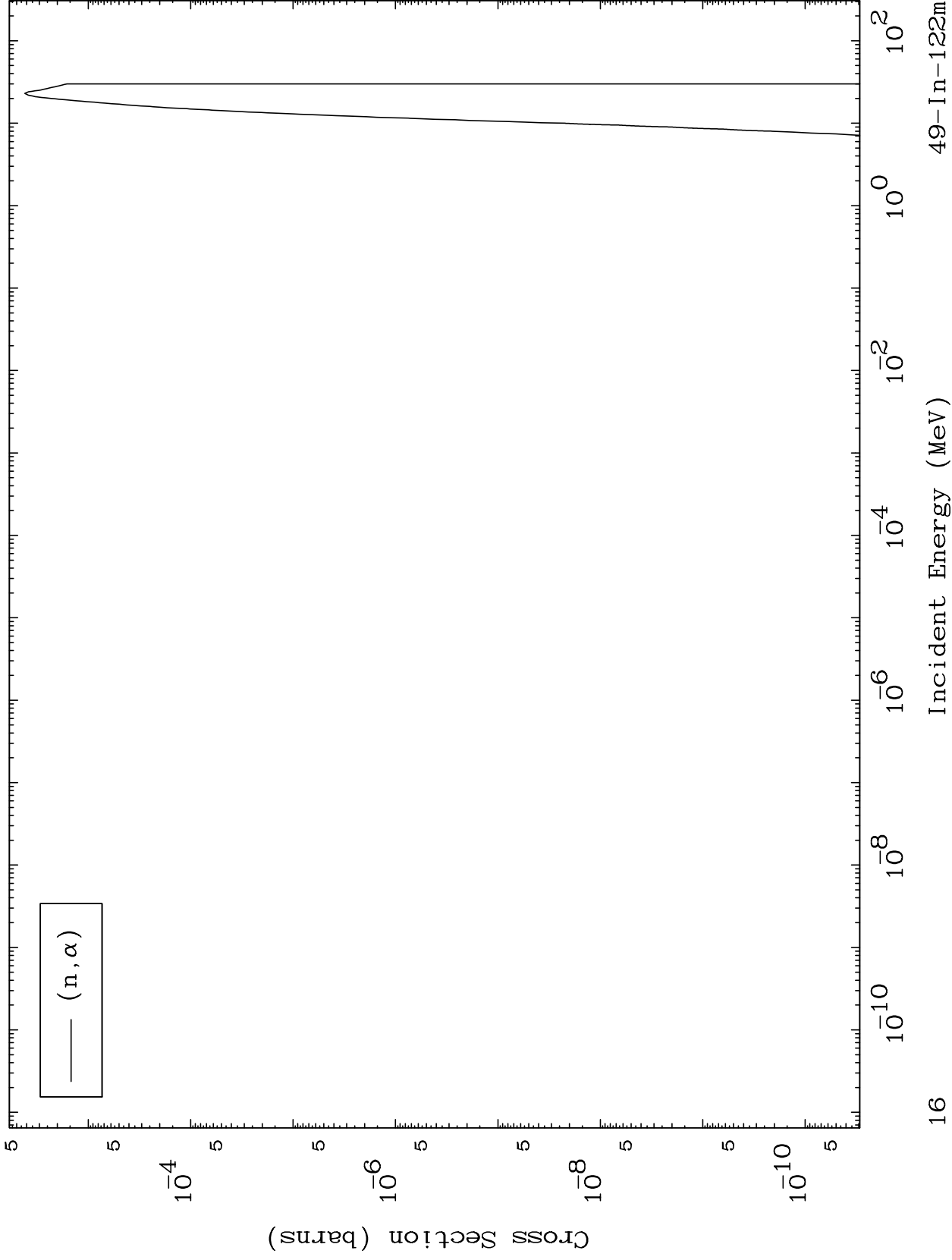
49-In-122m



MAT 4953

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

49-In-122m

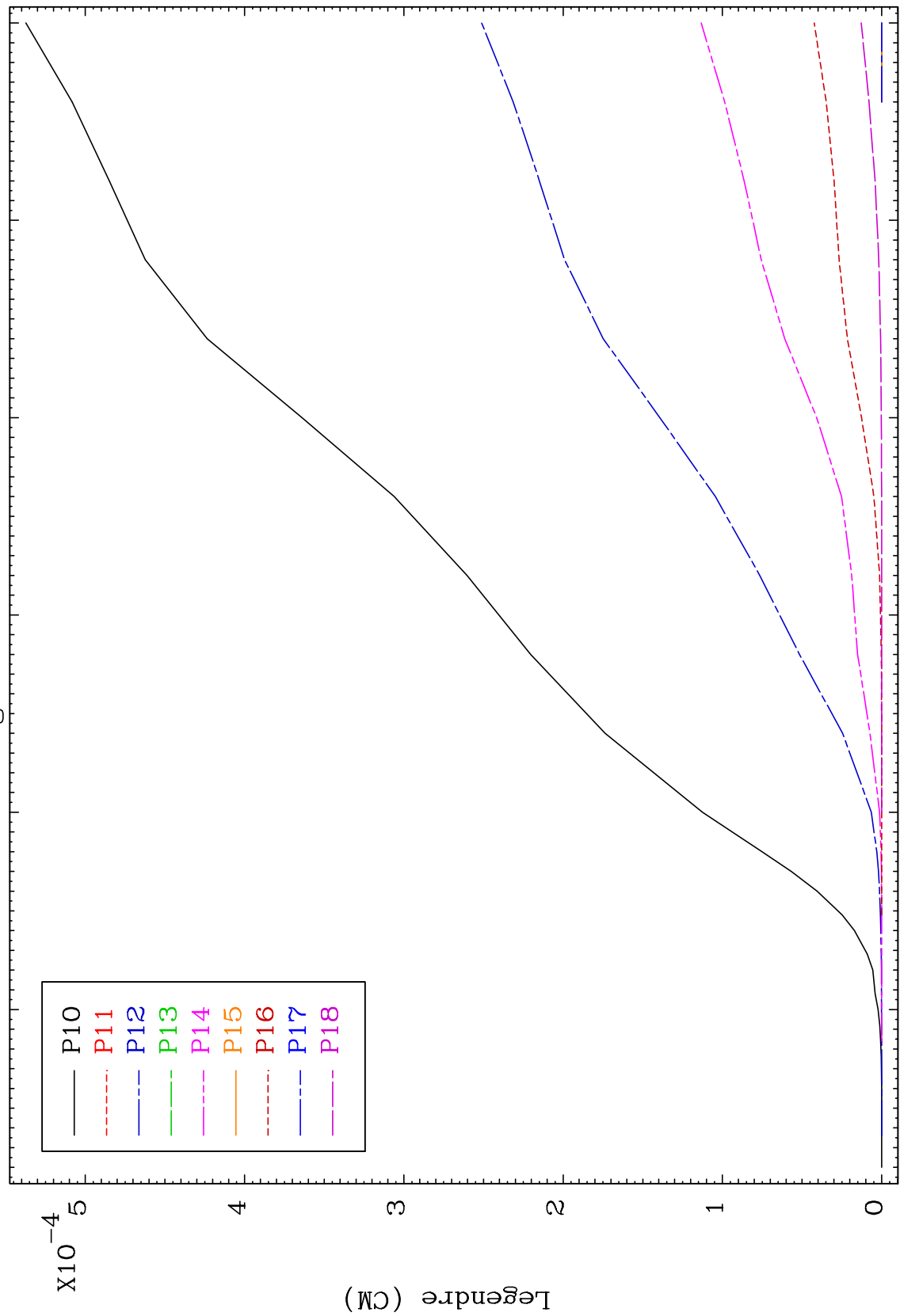




MAT 4953

Elastic Legendre Coefficients

49-In-122m



18

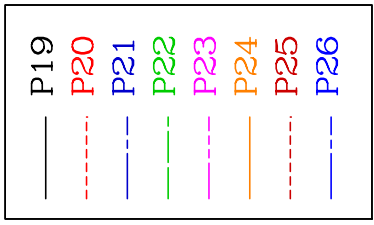
Incident Energy (MeV)

49-In-122m

MAT 4953

Elastic Legendre Coefficients

49-In-122m



$\times 10^{-7}$

Legendre (CM)

6

4

2

0

15

20

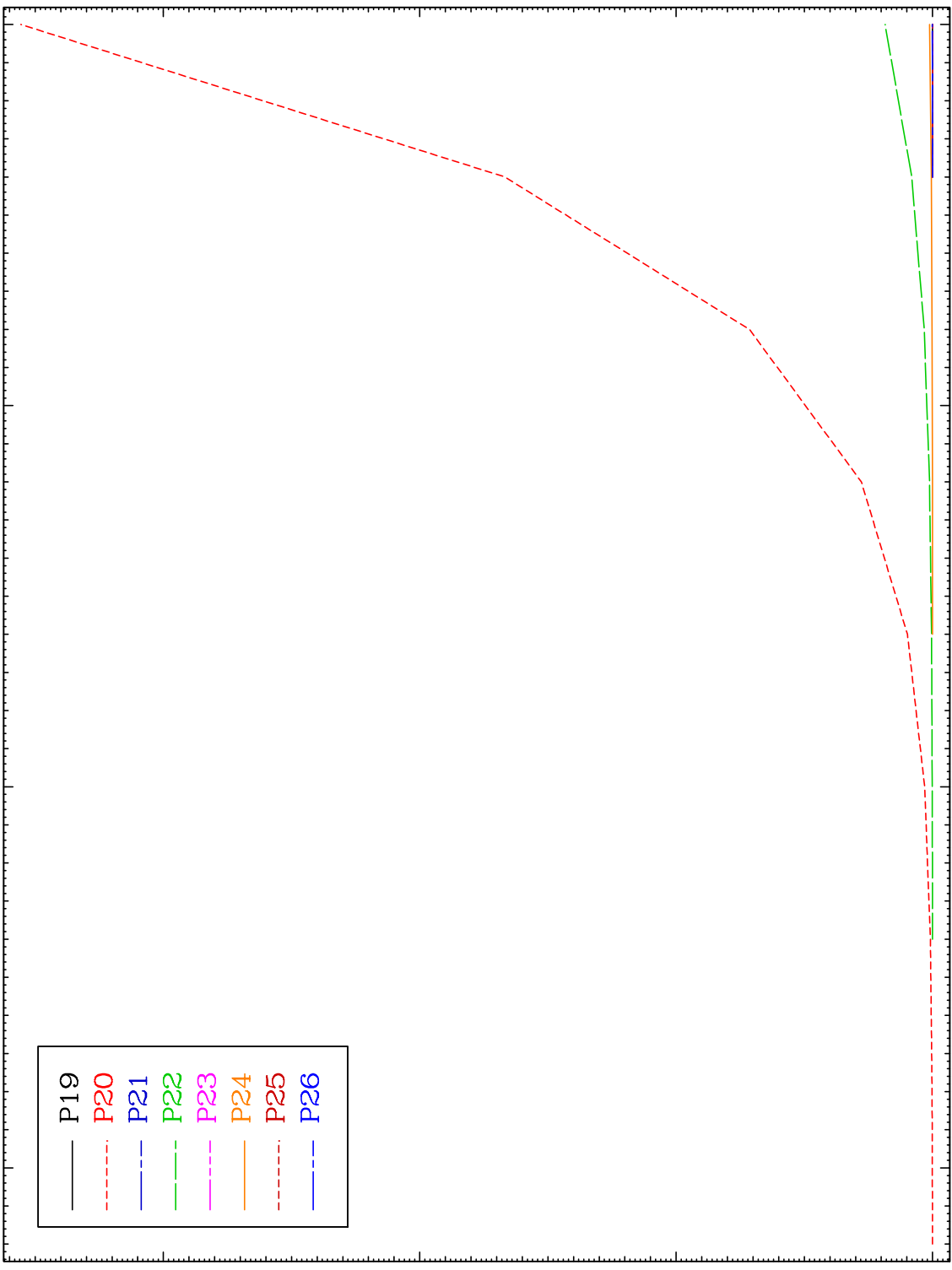
25

30

19

Incident Energy (MeV)

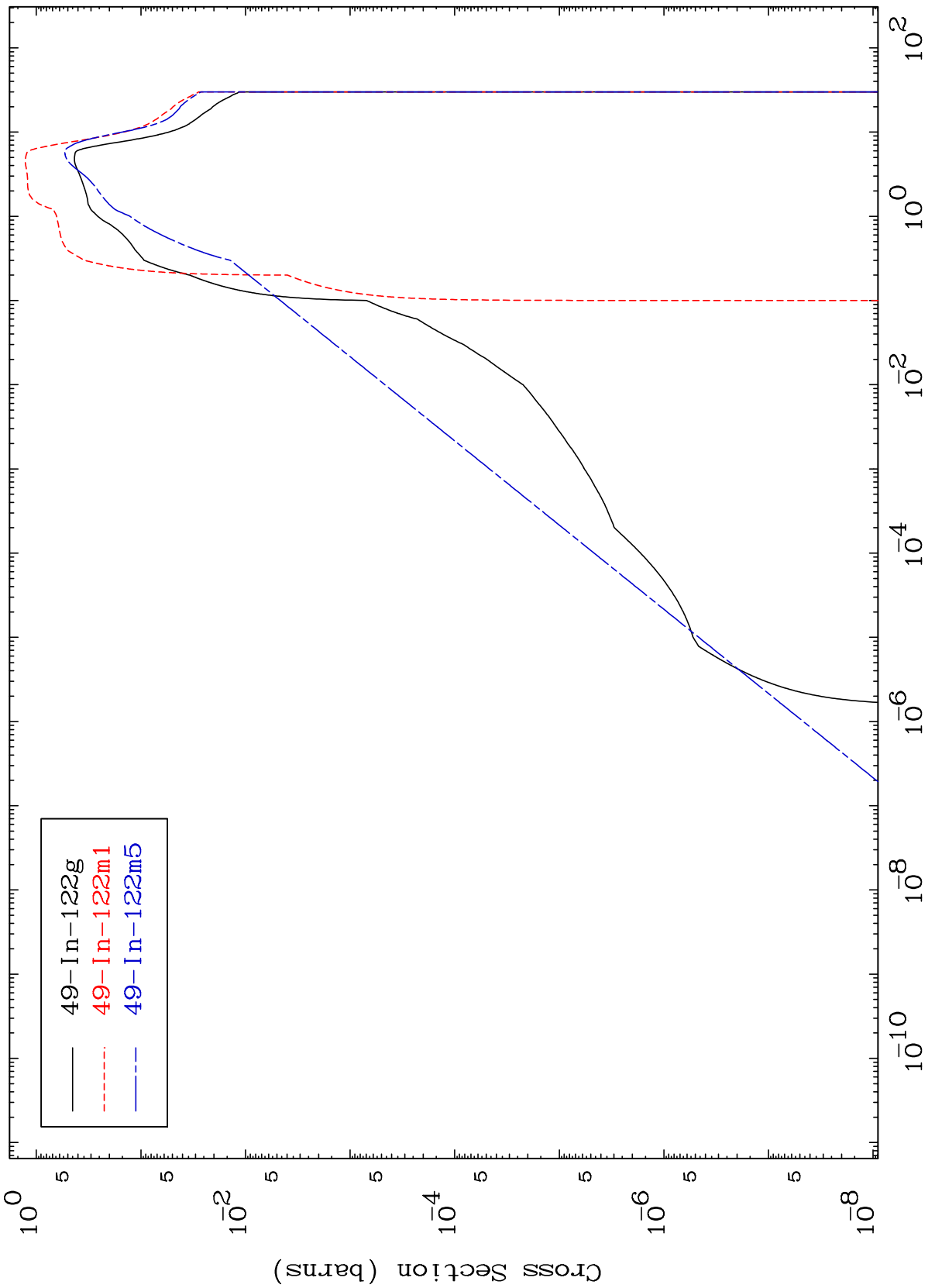
49-In-122m



MAT 4953

49-In-122m

Inelastic  
Radionuclide Production Cross Section



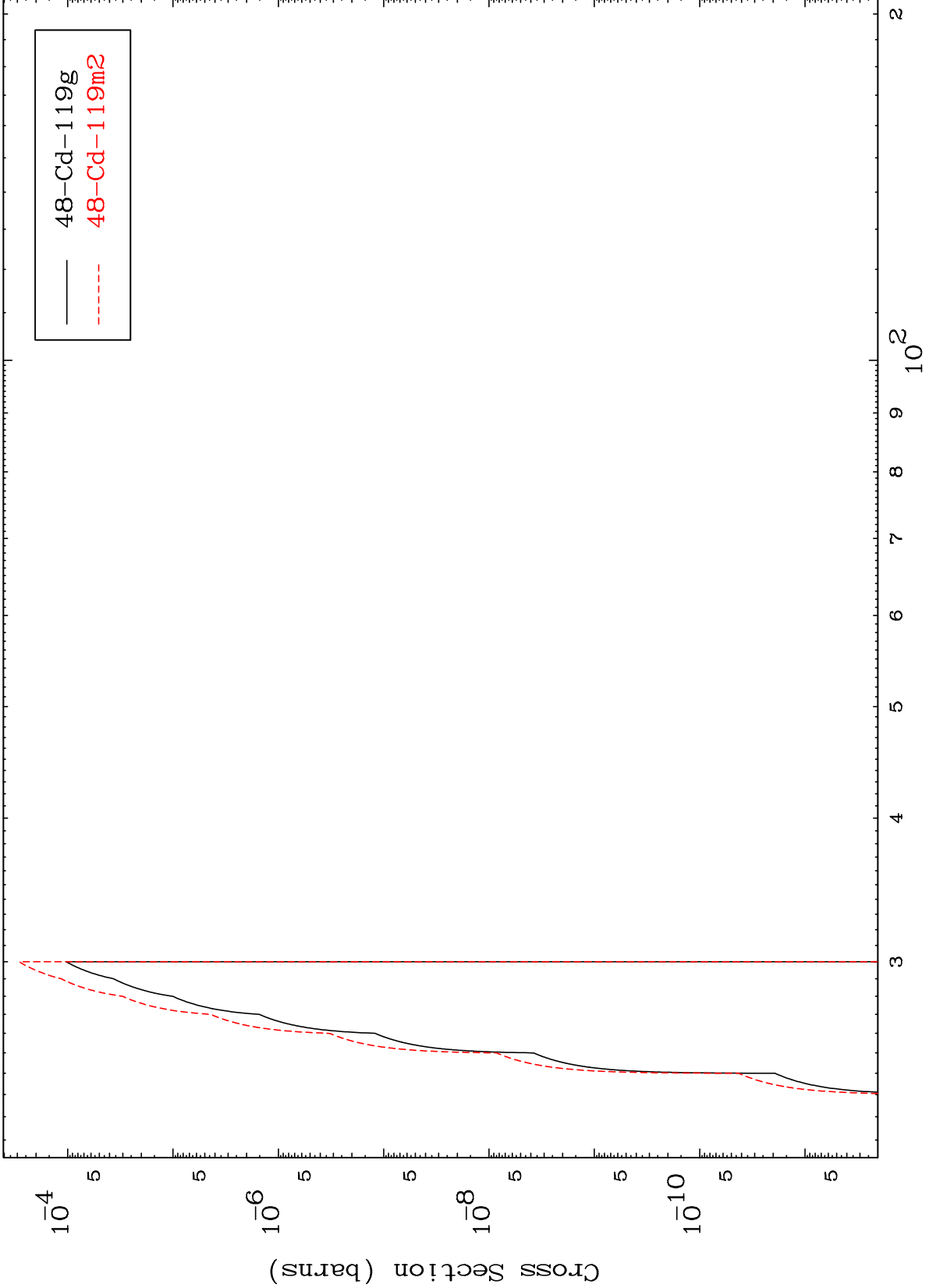
49-In-122g  
49-In-122m1  
49-In-122m5

MAT 4953

(n,2n) d

49-In-122m

Radionuclide Production Cross Section



21

Incident Energy (MeV)

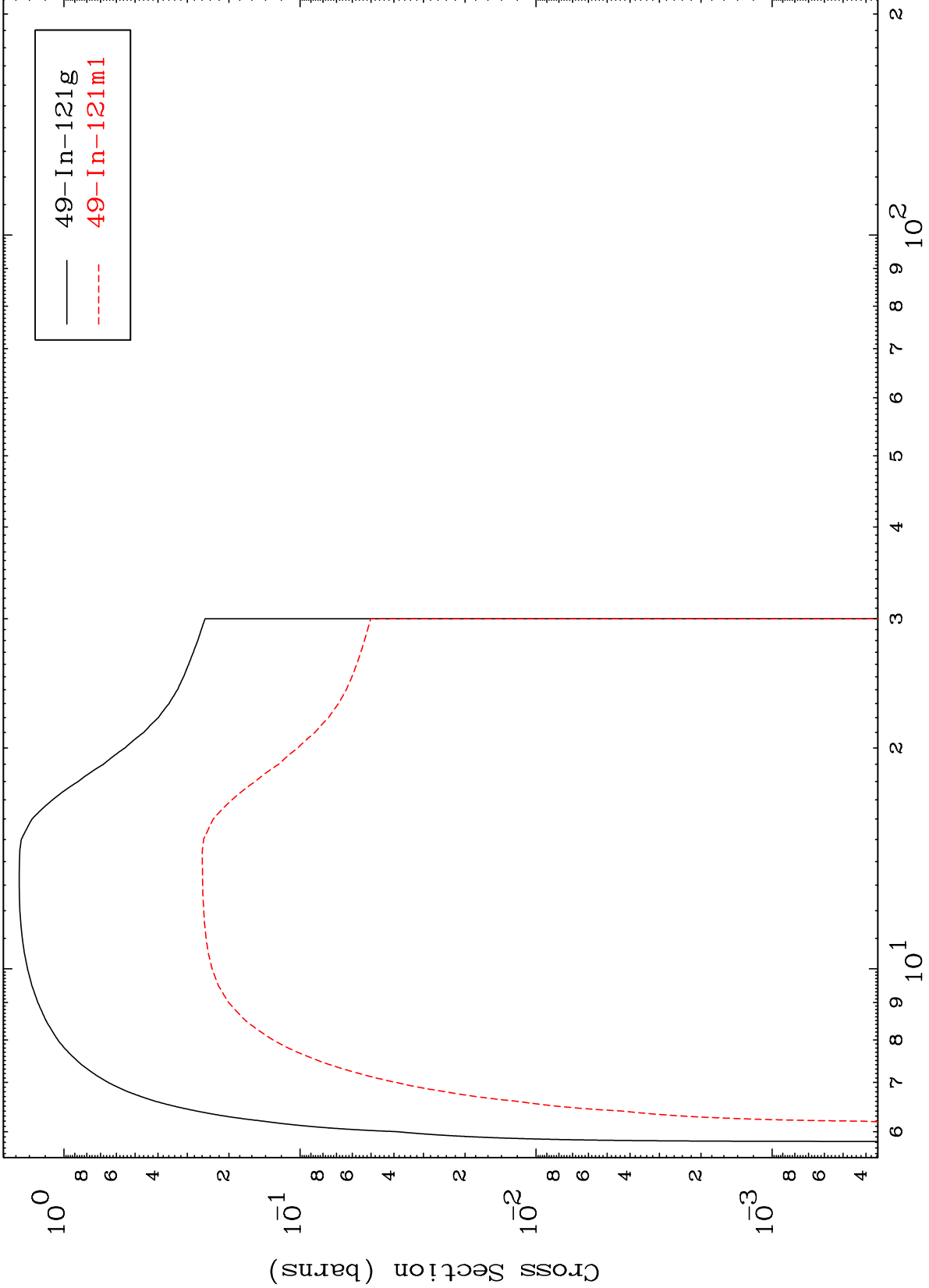
49-In-122m

MAT 4953

(n,2n)

49-In-122m

Radionuclide Production Cross Section



— 49-In-121g  
- - - 49-In-121m1

Incident Energy (MeV)

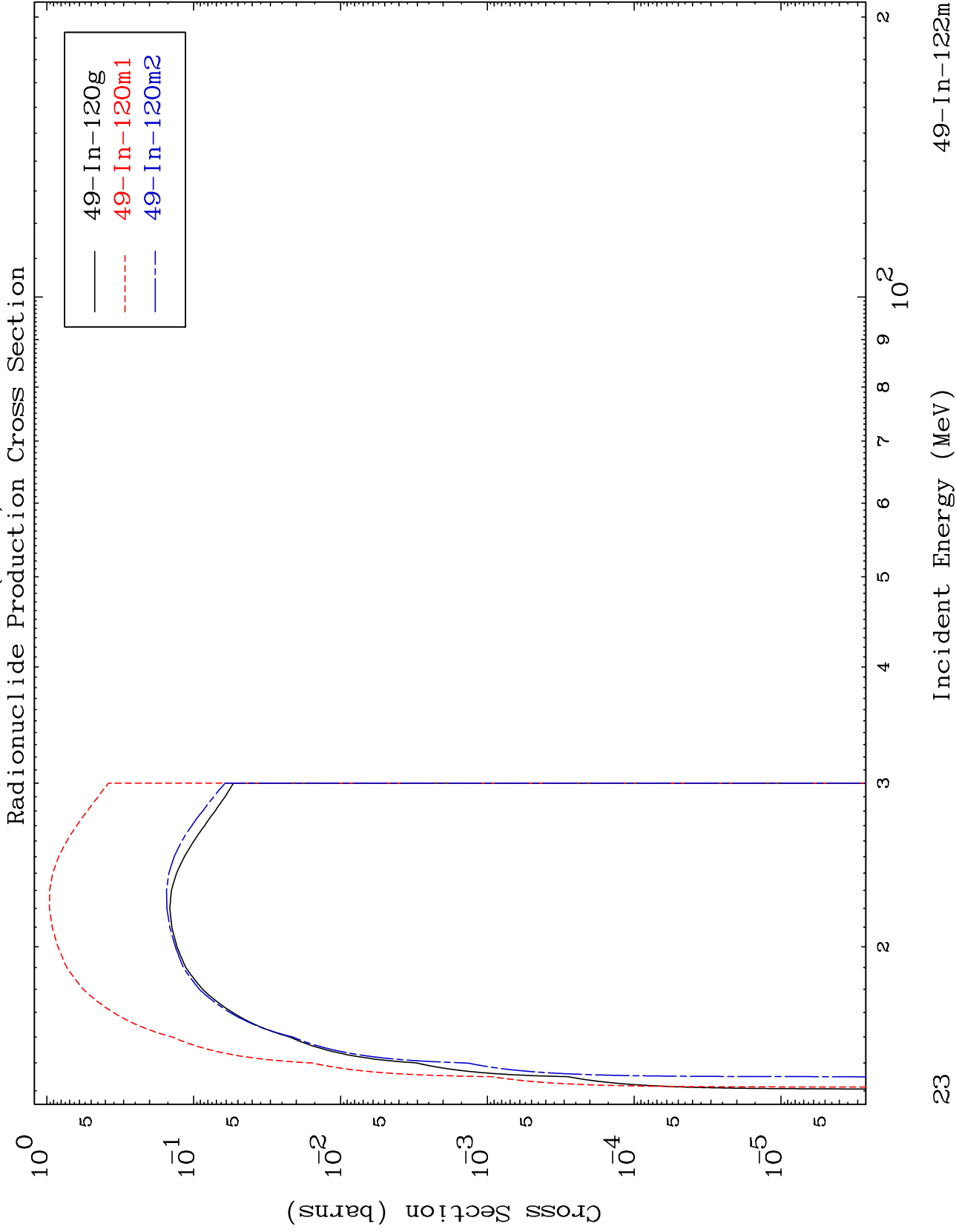
49-In-122m

22

MAT 4953

(n,3n)

49-In-122m



23

49-In-122m

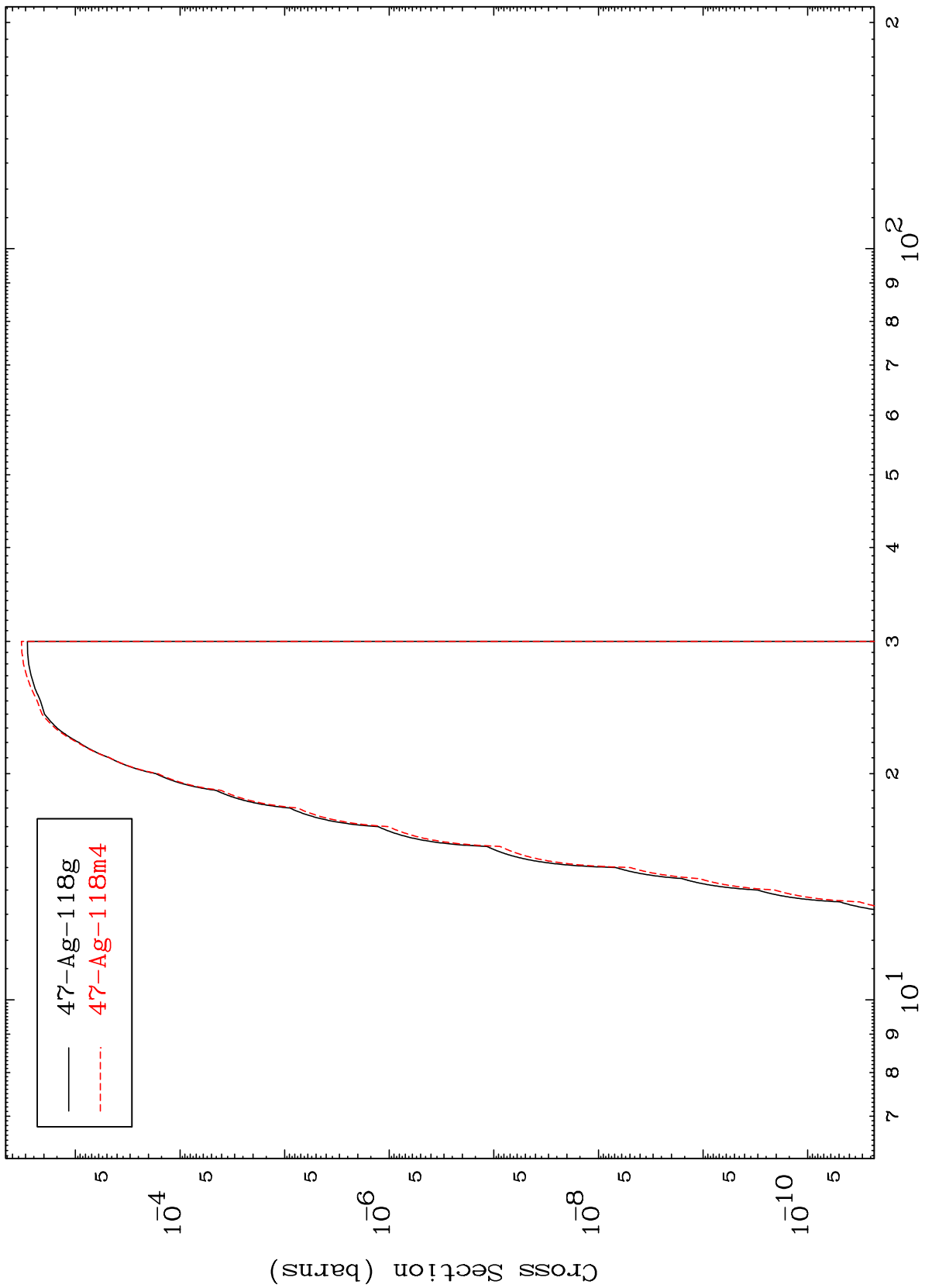


MAT 4953

(n,n')  $\alpha$

49-In-122m

Radionuclide Production Cross Section



— 47-Ag-118g  
- - - 47-Ag-118m4

24

Incident Energy (MeV)

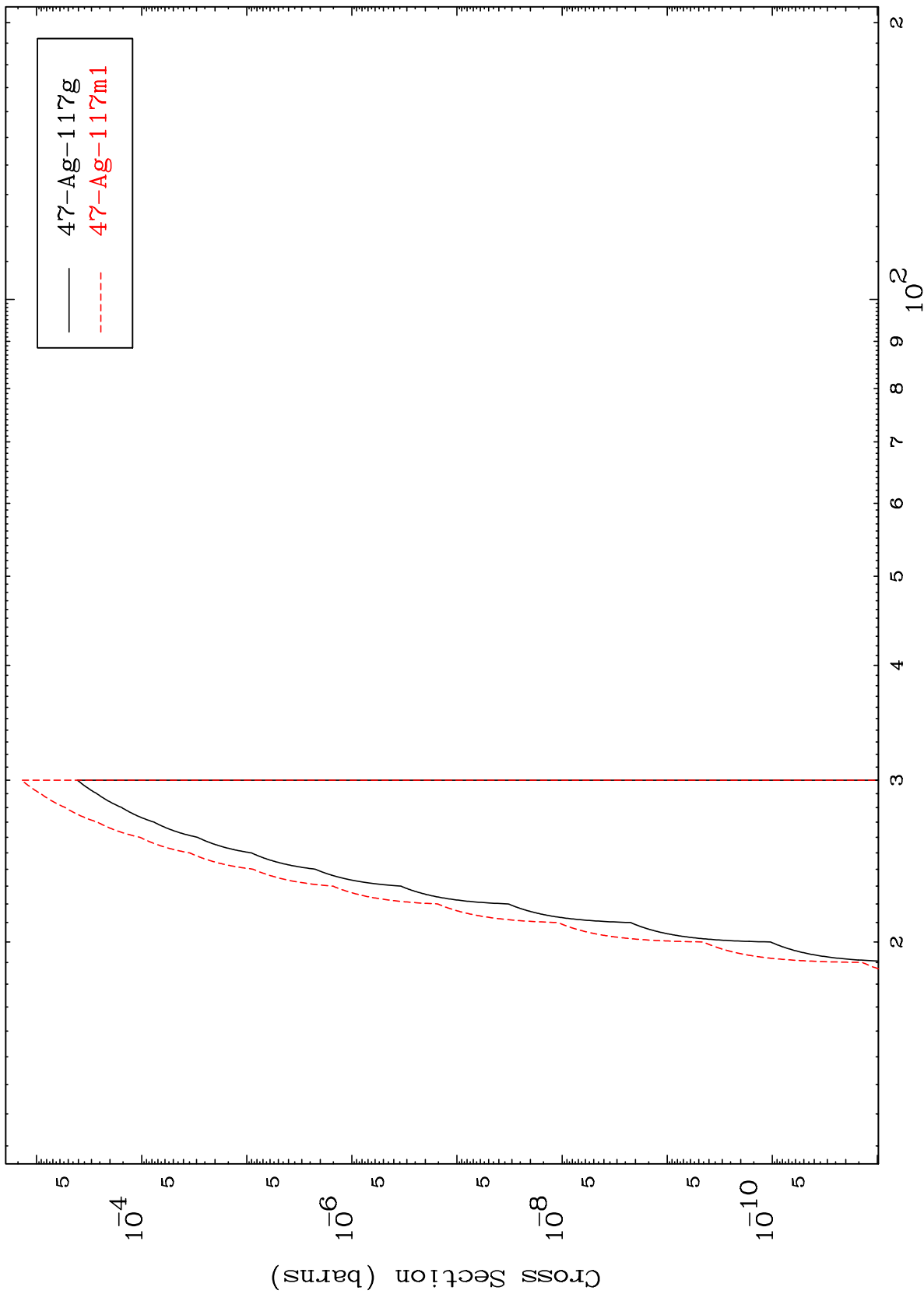
49-In-122m

MAT 4953

(n,2n)  $\alpha$

49-In-122m

Radionuclide Production Cross Section



25

Incident Energy (MeV)

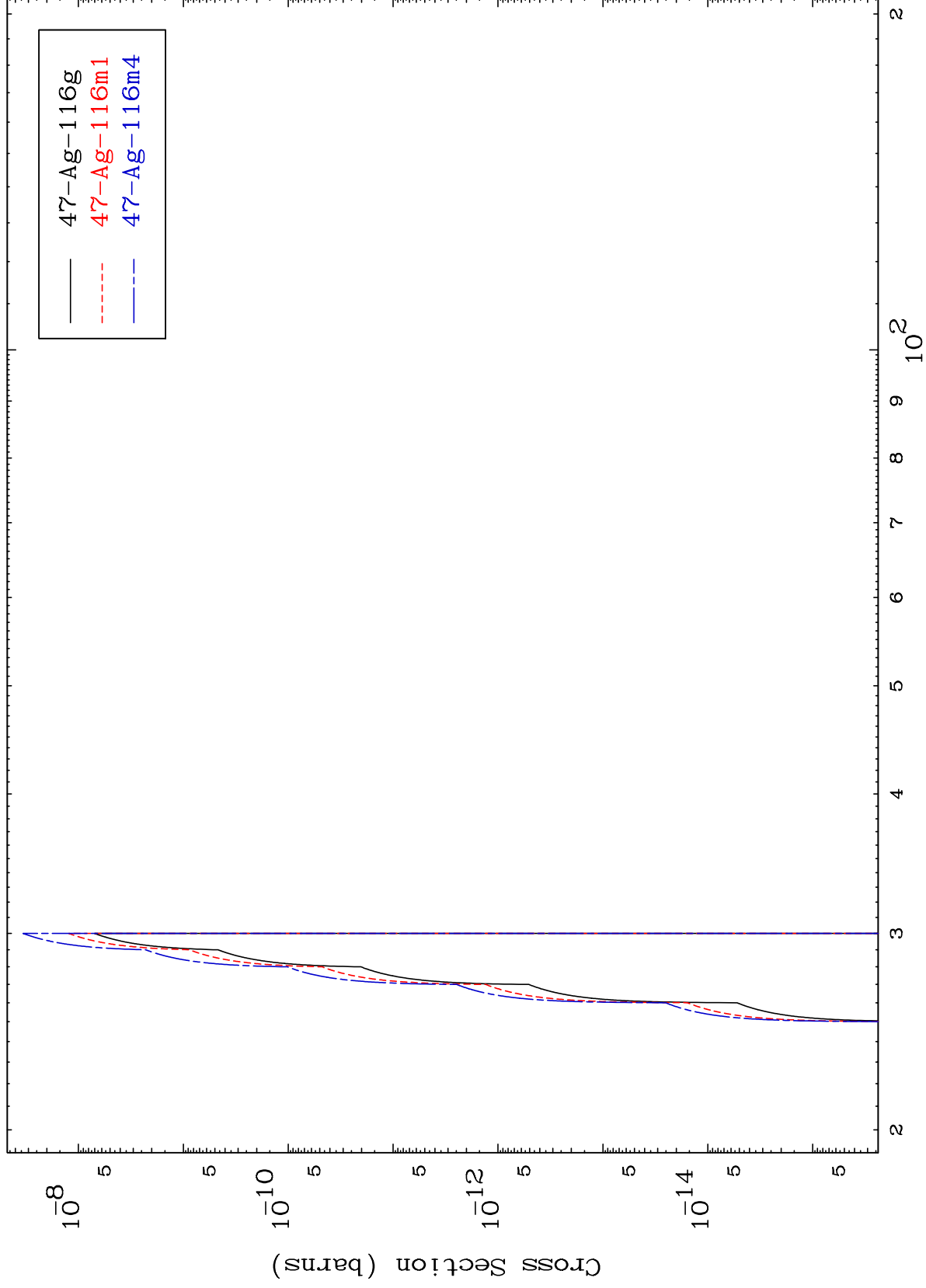
49-In-122m

MAT 4953

(n,3n)  $\alpha$

49-In-122m

Radionuclide Production Cross Section



26

Incident Energy (MeV)

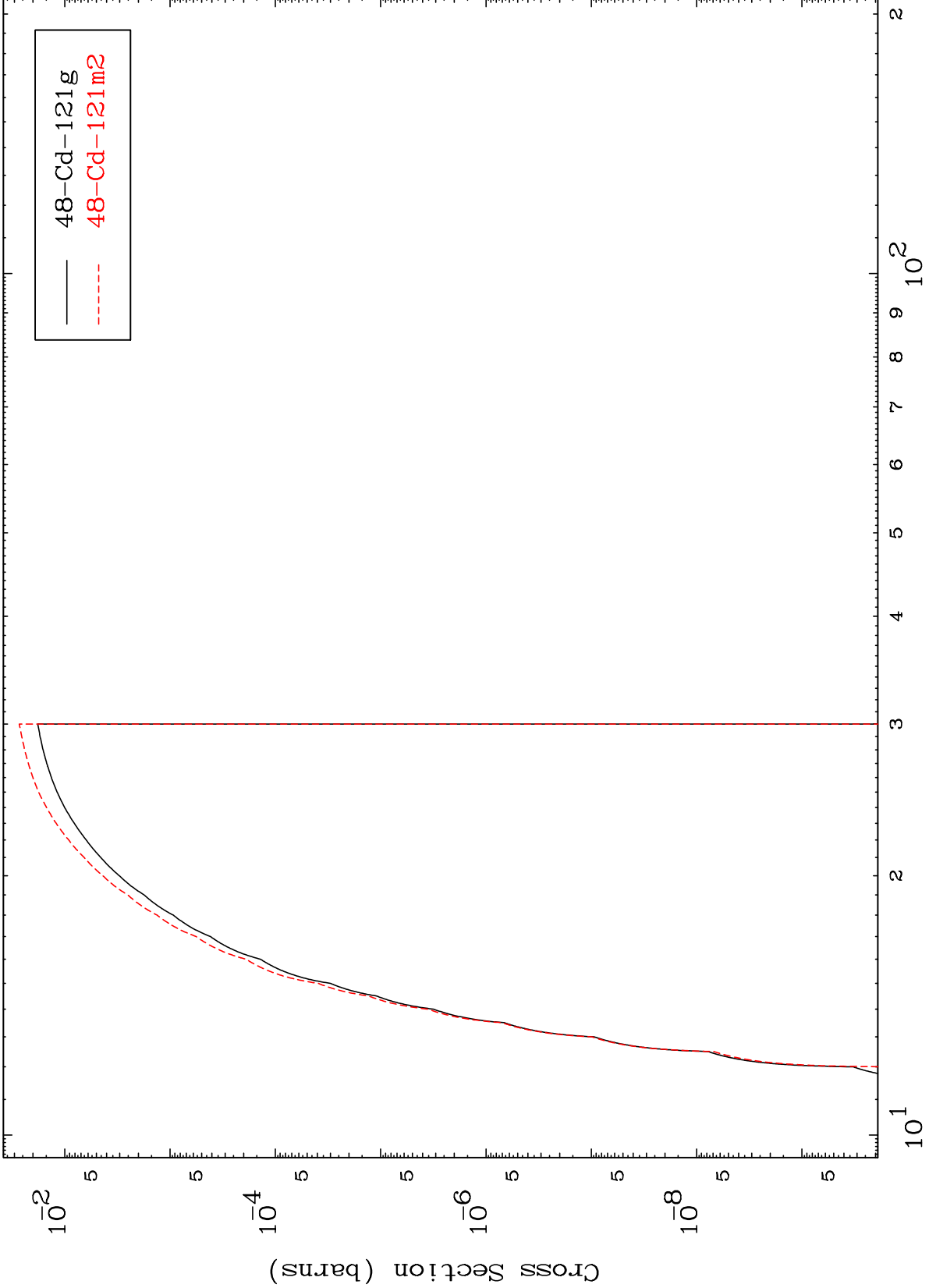
49-In-122m

MAT 4953

(n,n') p

49-In-122m

Radionuclide Production Cross Section



Incident Energy (MeV)

49-In-122m

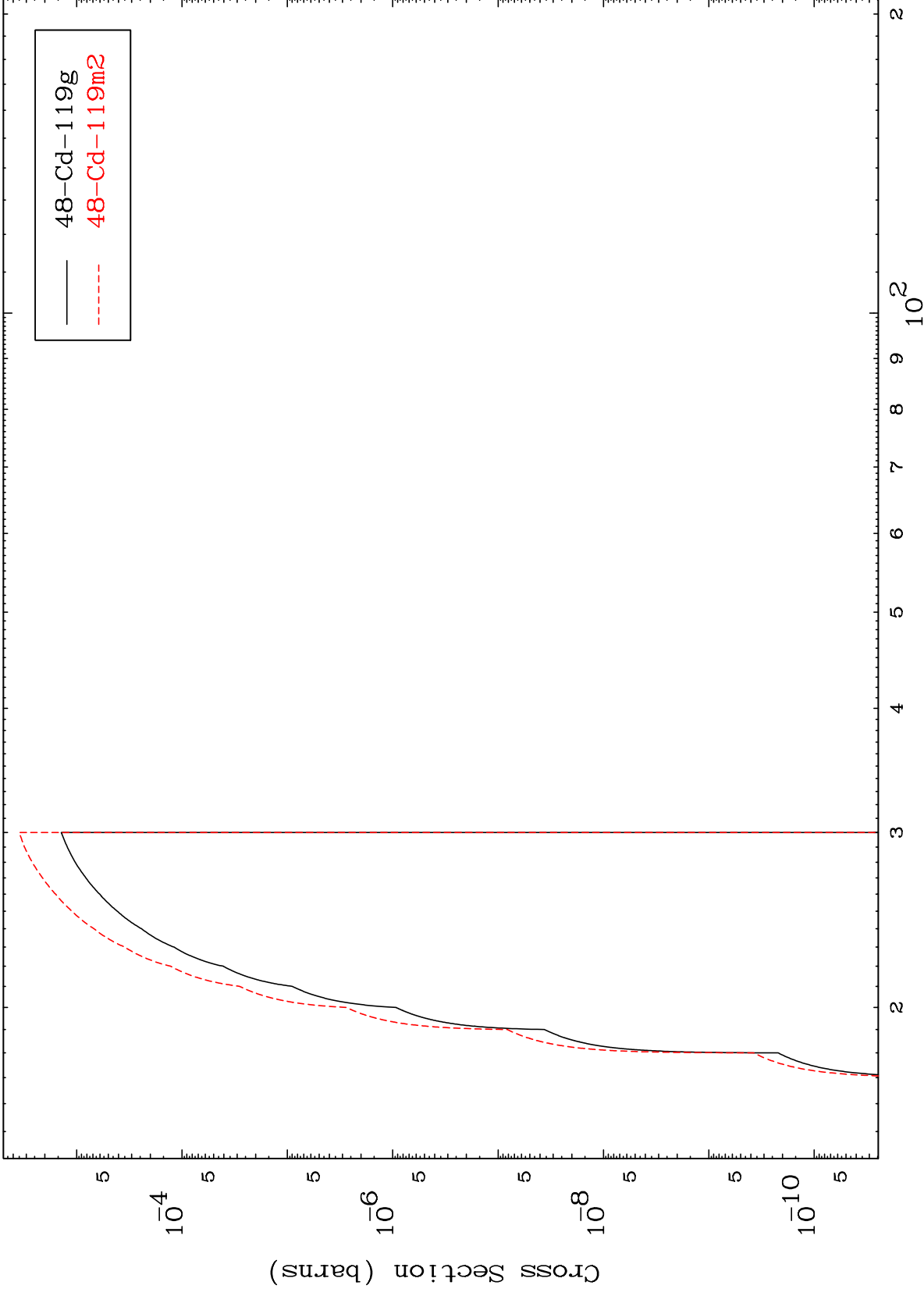
27

MAT 4953

(n,n') t

49-In-122m

Radionuclide Production Cross Section



28

Incident Energy (MeV)

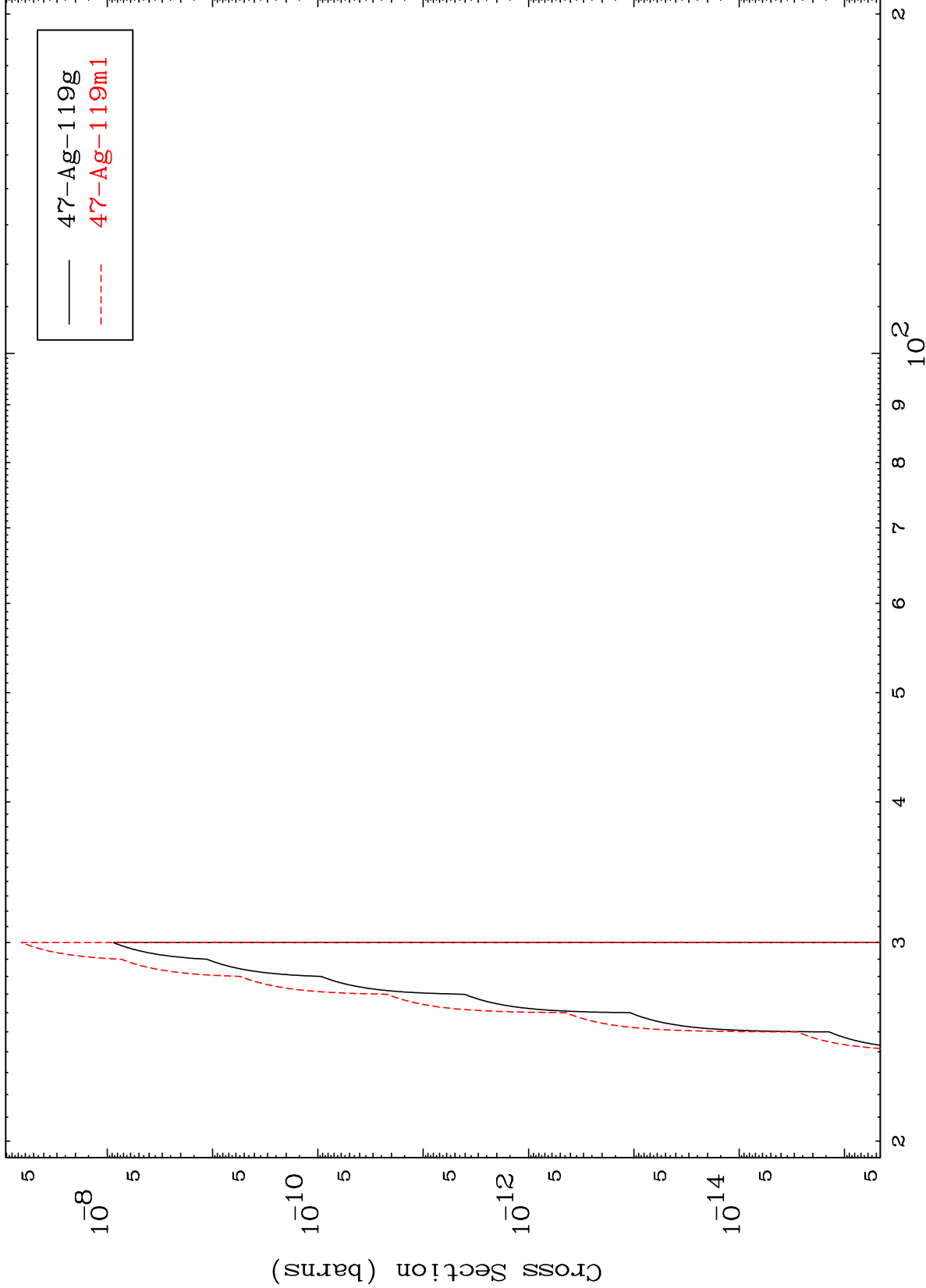
49-In-122m

MAT 4953

(n,n') He-3

49-In-122m

Radionuclide Production Cross Section



29

Incident Energy (MeV)

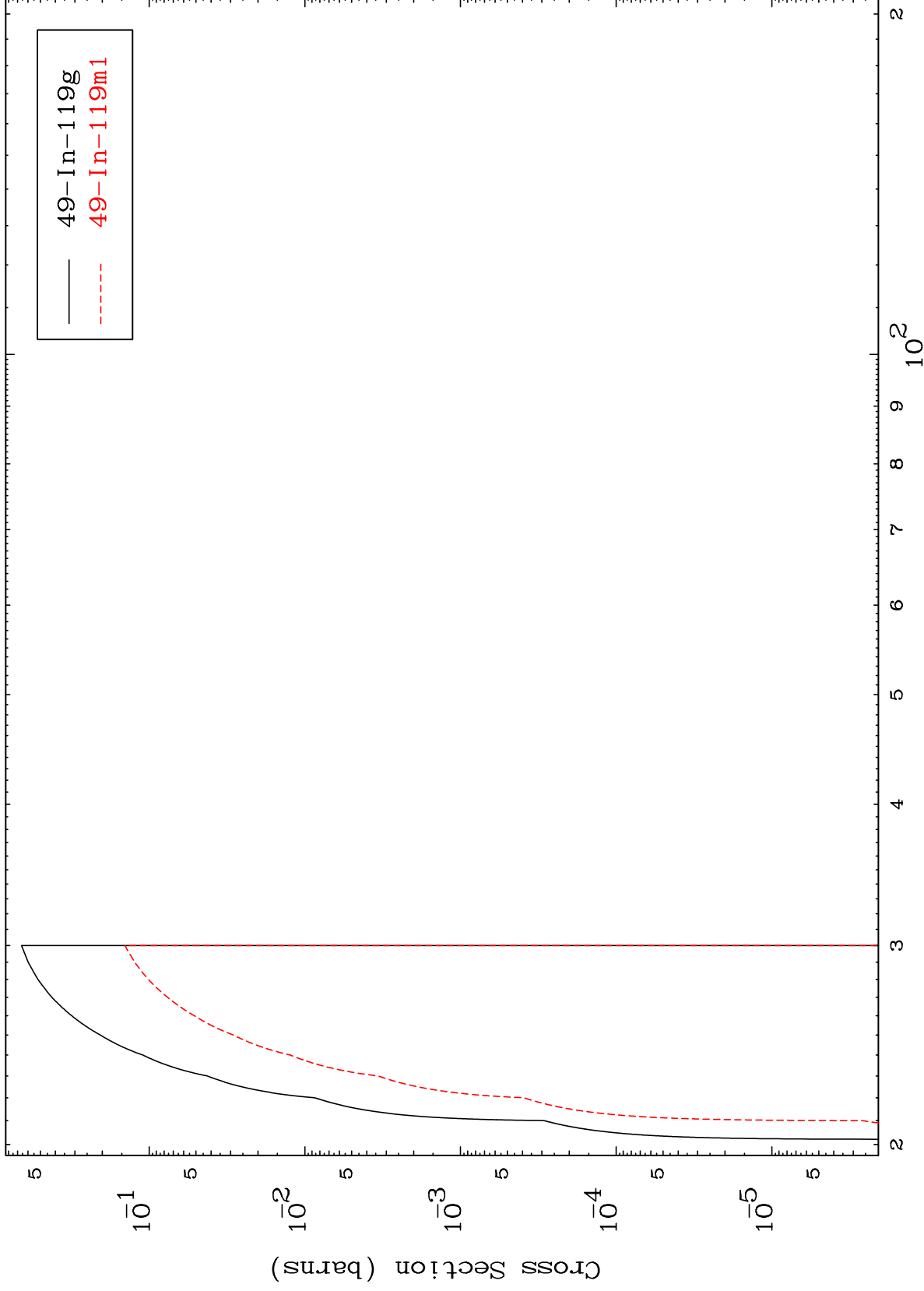
49-In-122m

MAT 4953

(n,4n)

49-In-122m

Radionuclide Production Cross Section



30

Incident Energy (MeV)

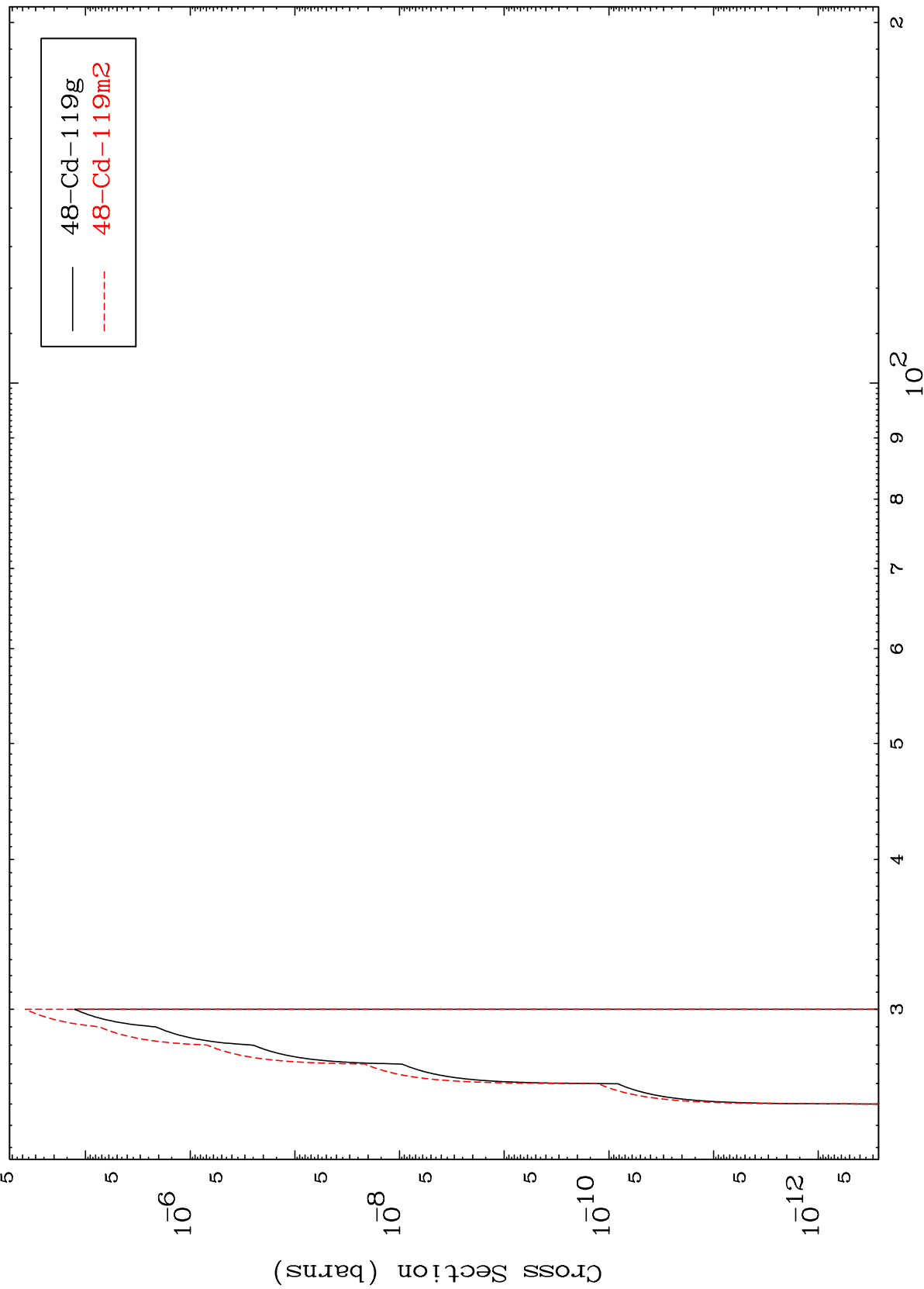
49-In-122m

MAT 4953

(n,3n) p

49-In-122m

Radionuclide Production Cross Section

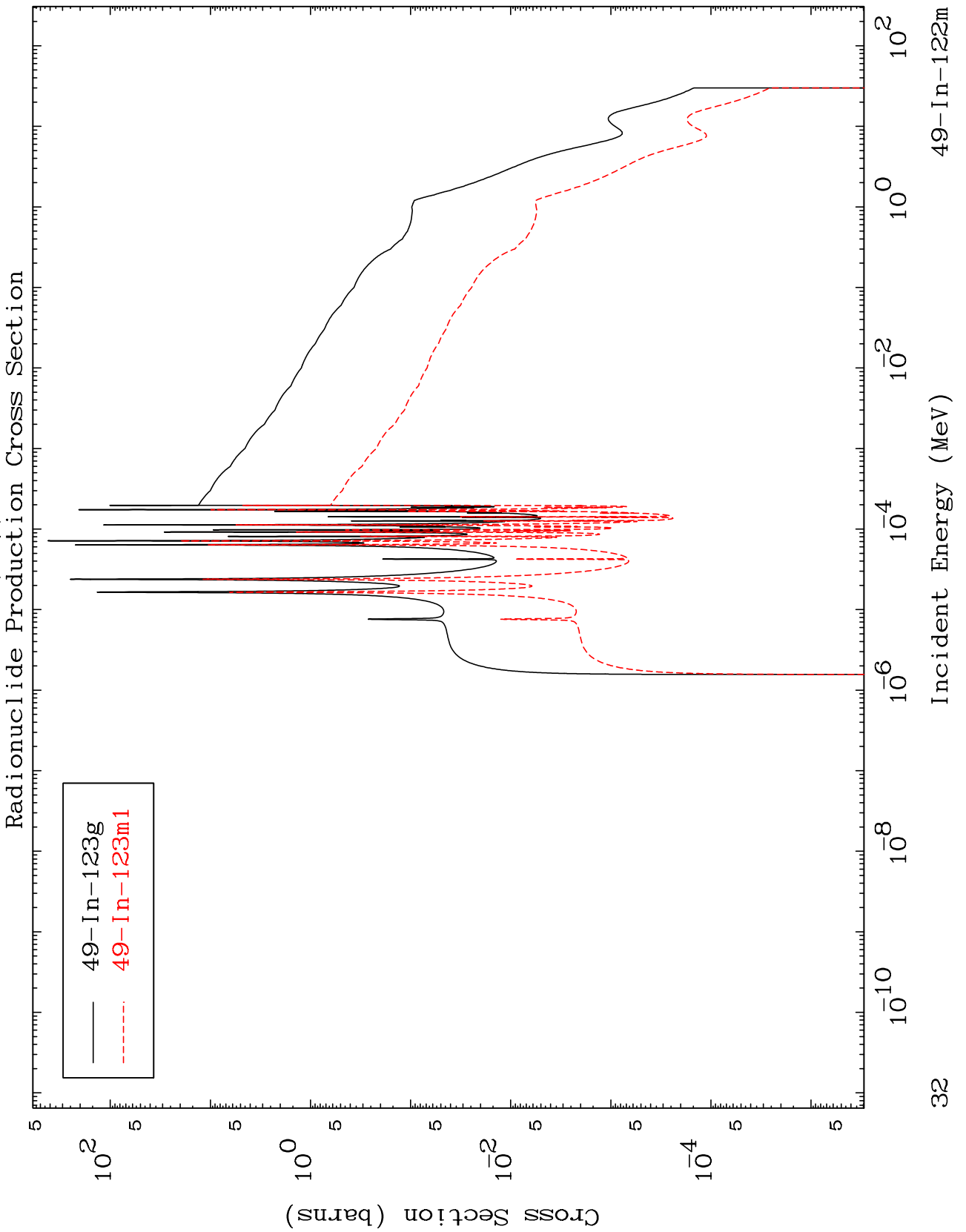


48-Cd-119g  
48-Cd-119m2



MAT 4953

49-In-122m

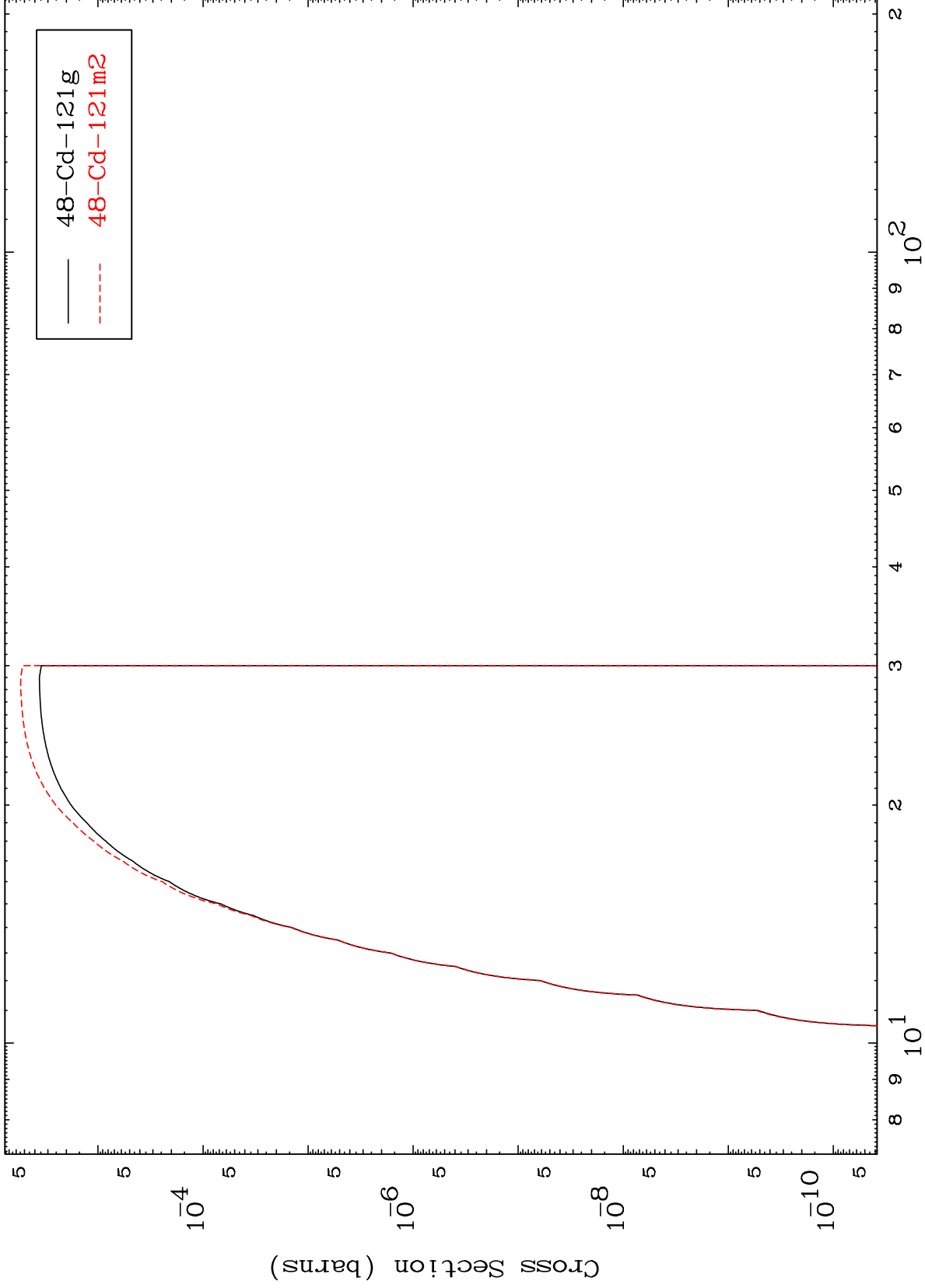


MAT 4953

(n,d)

49-In-122m

Radionuclide Production Cross Section



33

Incident Energy (MeV)

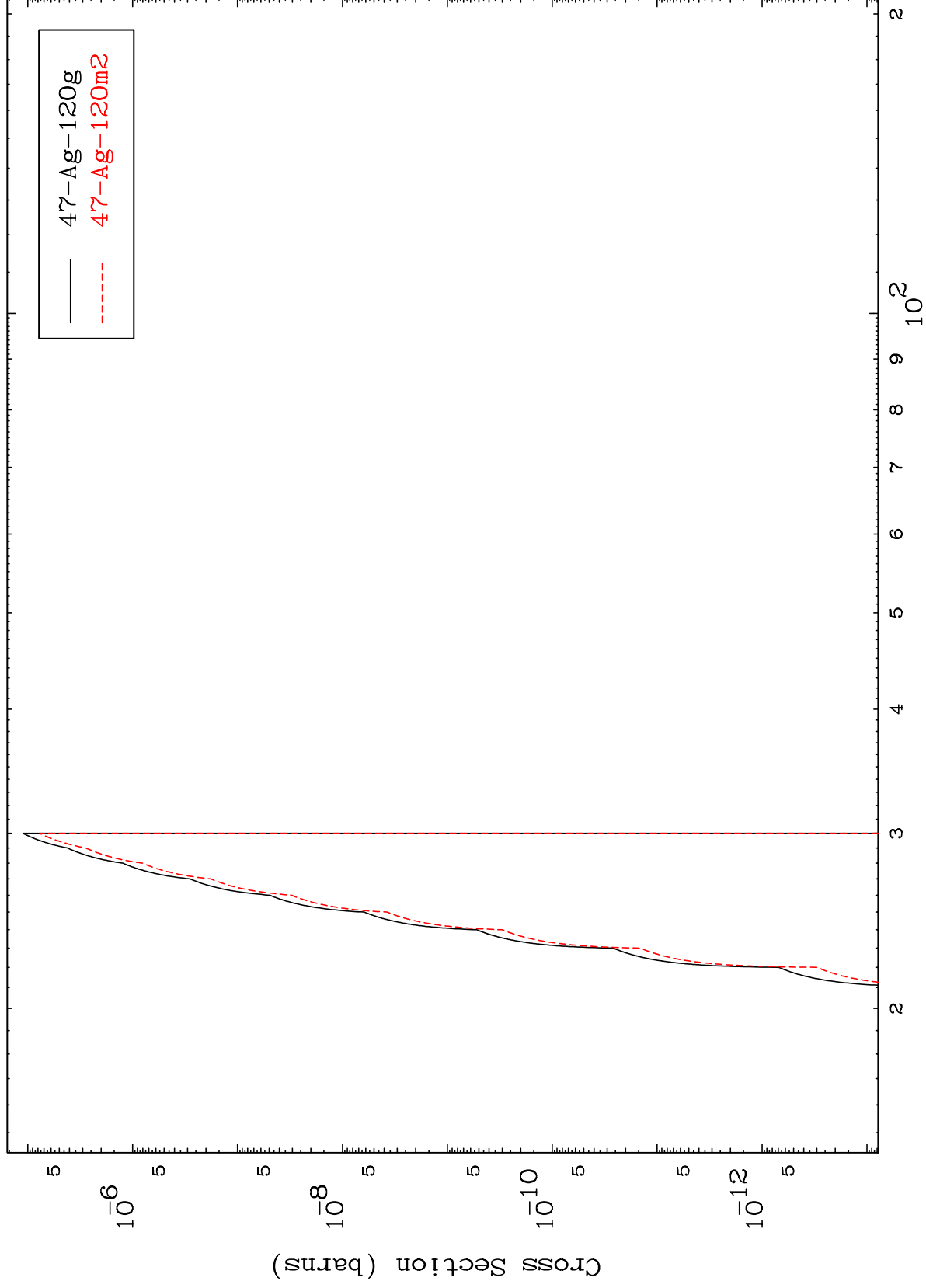
49-In-122m

MAT 4953

(n,He-3)

49-In-122m

Radionuclide Production Cross Section



34

Incident Energy (MeV)

49-In-122m

MAT 4953

(n,  $\alpha$ )

49-In-122m

Radionuclide Production Cross Section

