

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

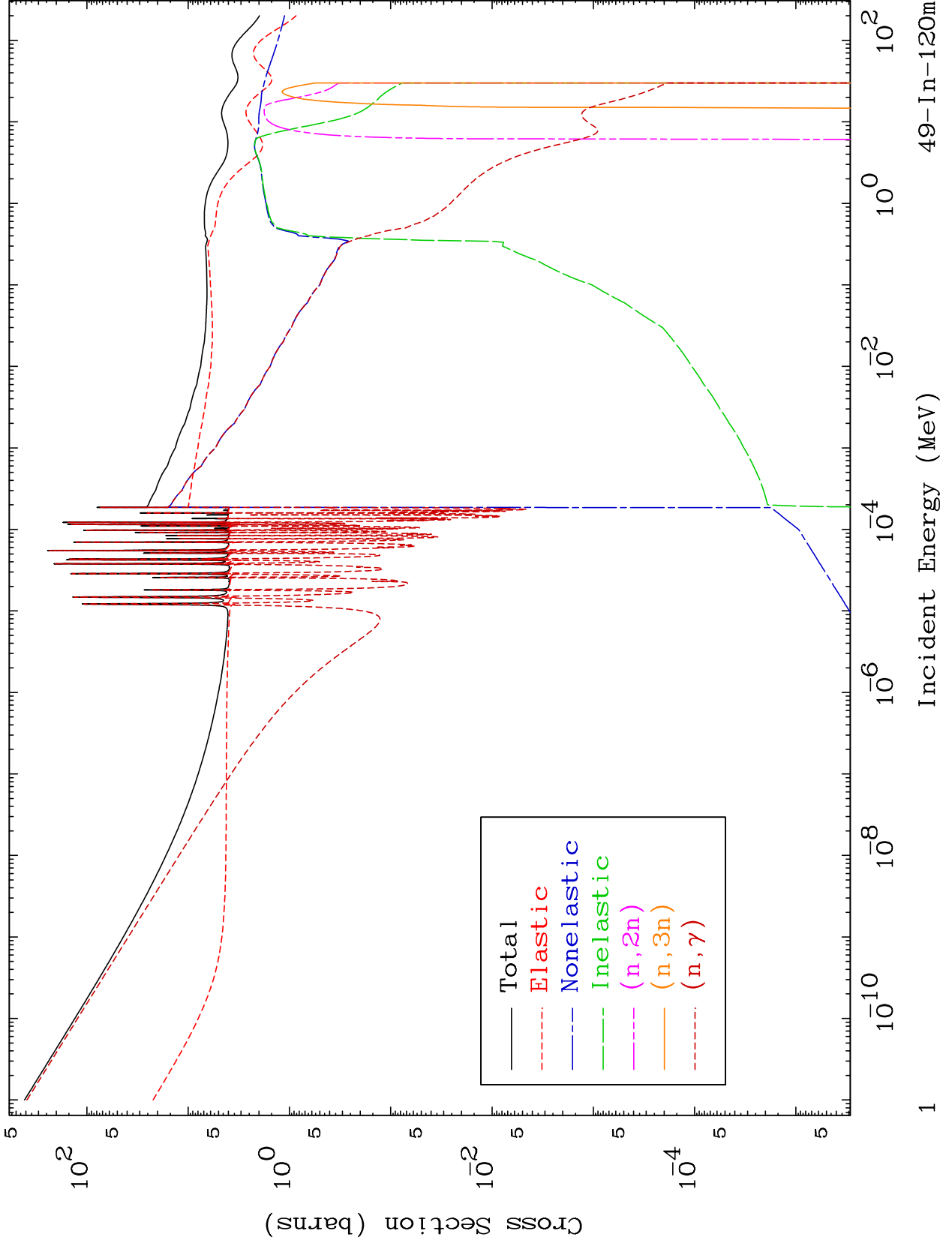
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4947

Neutron Major
293 Kelvin Cross Sections

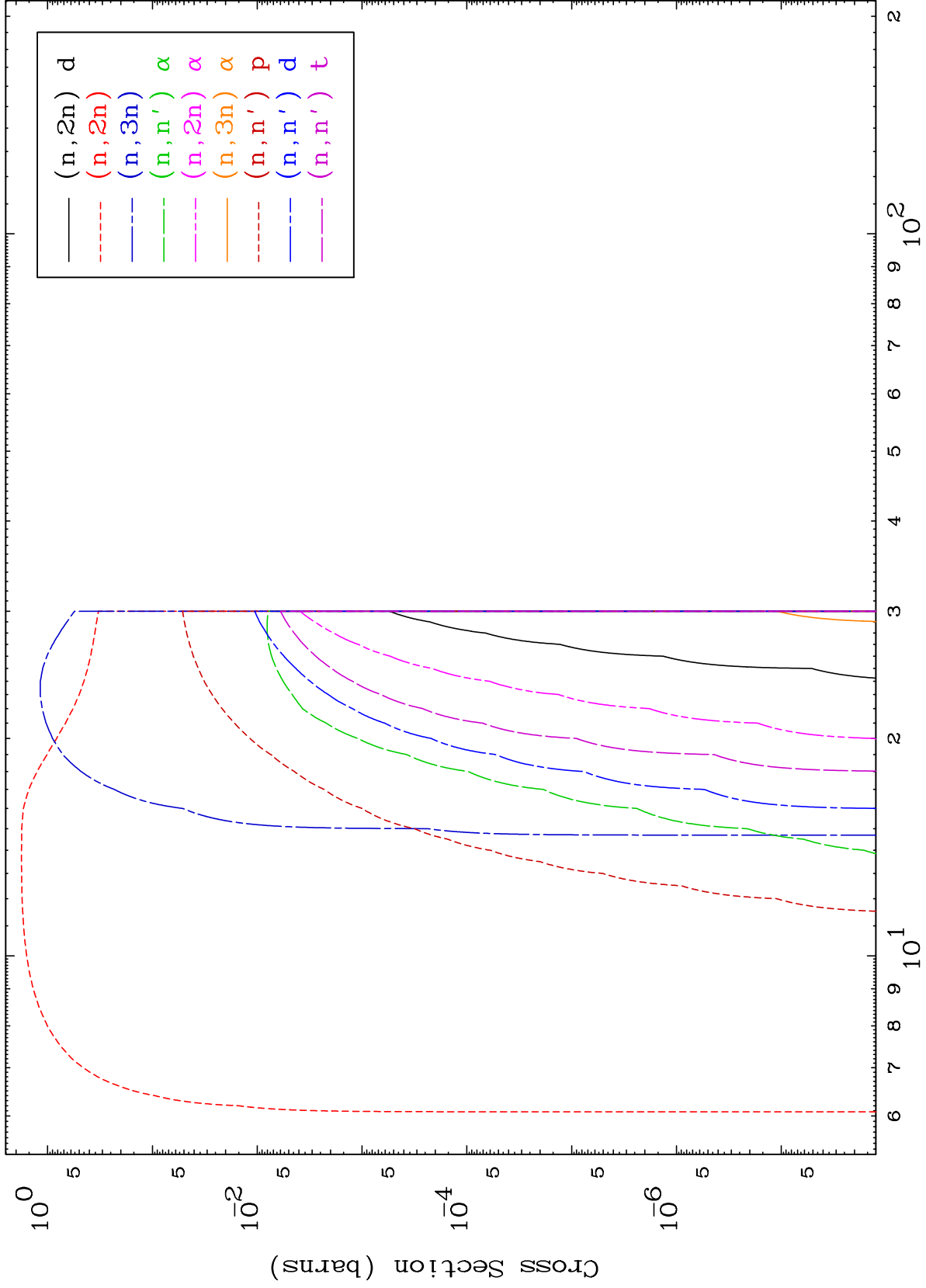
49-In-120m



MAT 4947

Neutron Absorption
293 Kelvin Cross Sections

49-In-120m



2

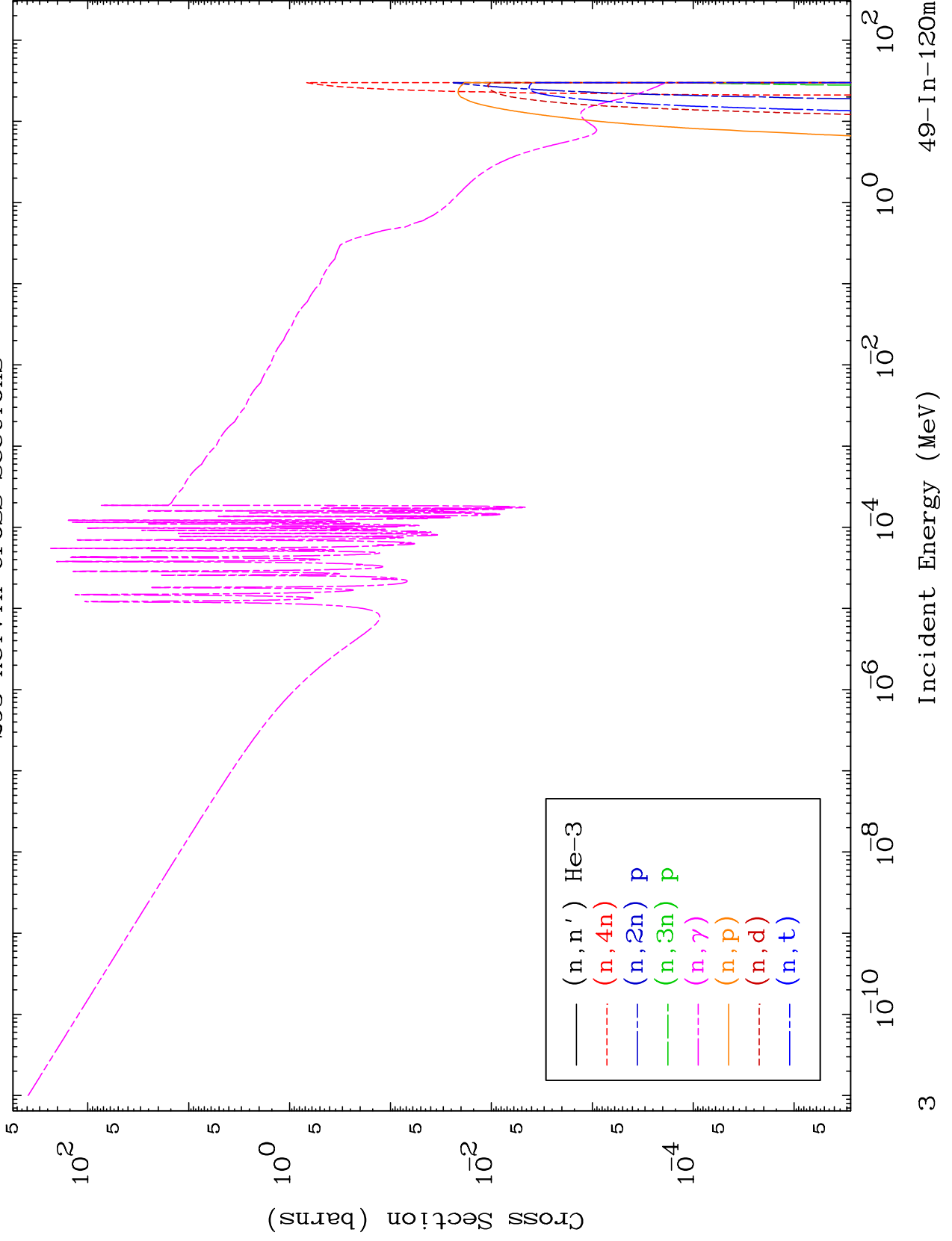
Incident Energy (MeV)

49-In-120m

MAT 4947

Neutron Absorption
293 Kelvin Cross Sections

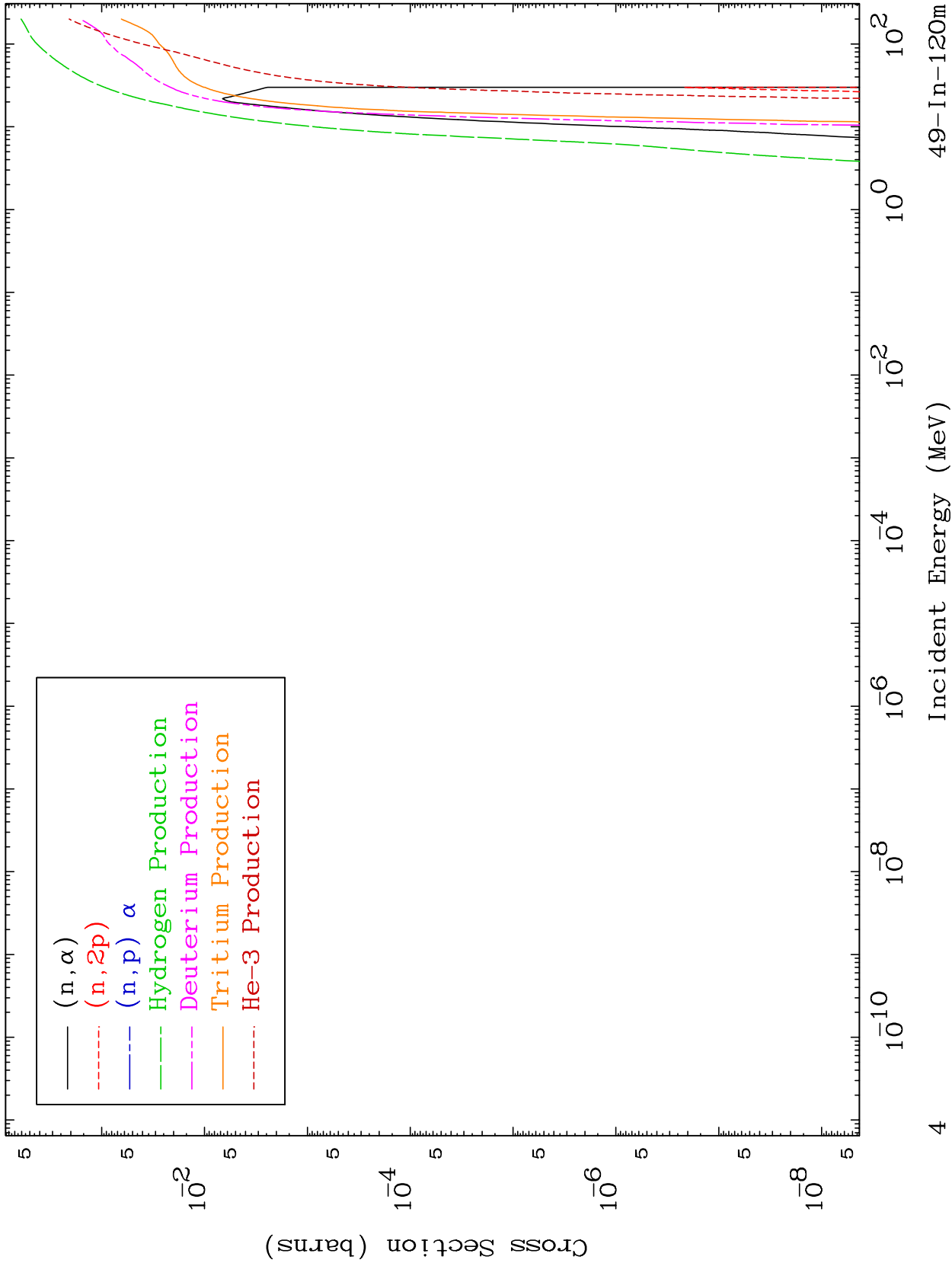
49-In-120m



MAT 4947

Neutron Absorption
293 Kelvin Cross Sections

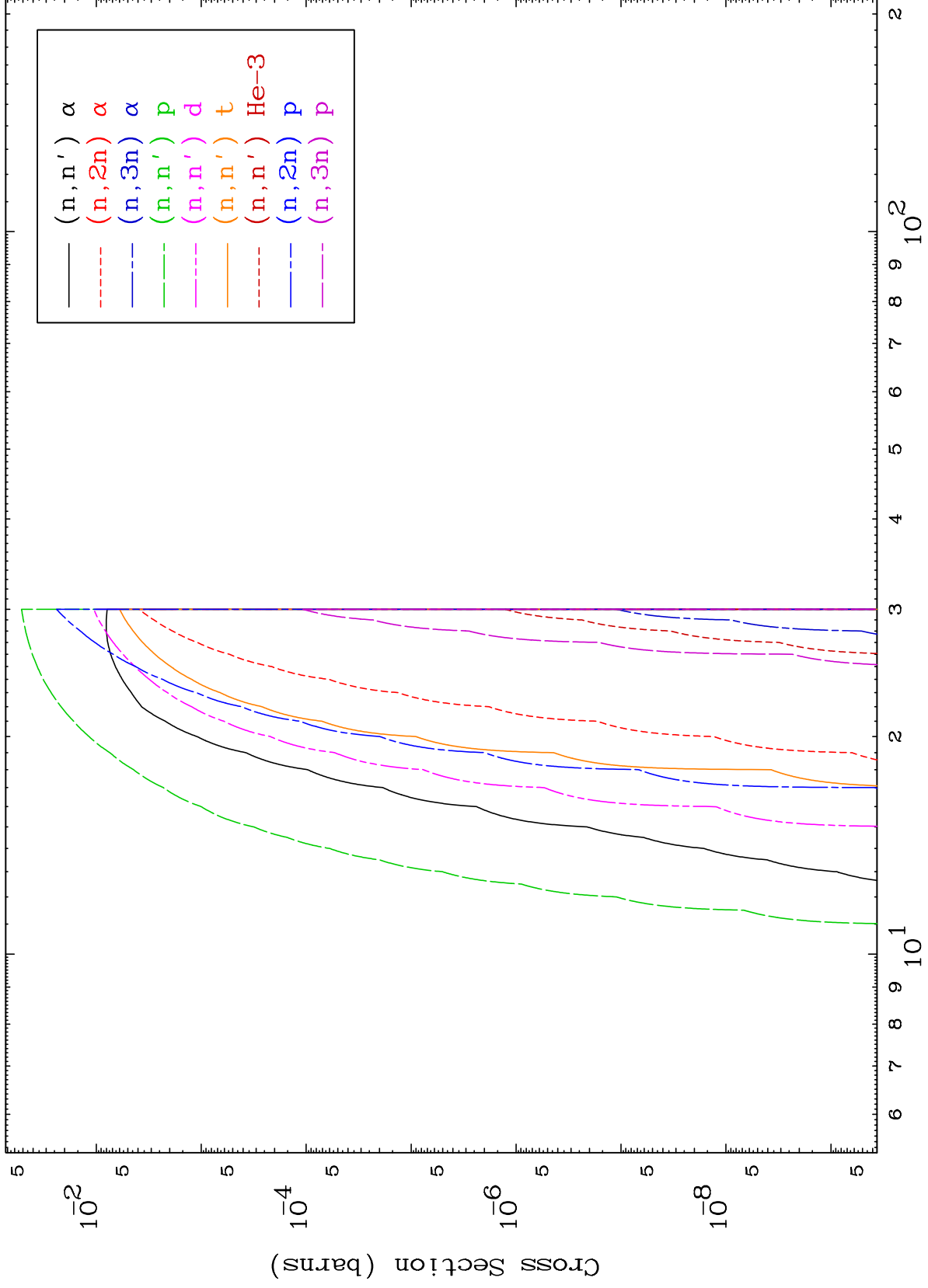
49-In-120m



MAT 4947

Charged Particle
293 Kelvin Cross Sections

49-In-120m



5

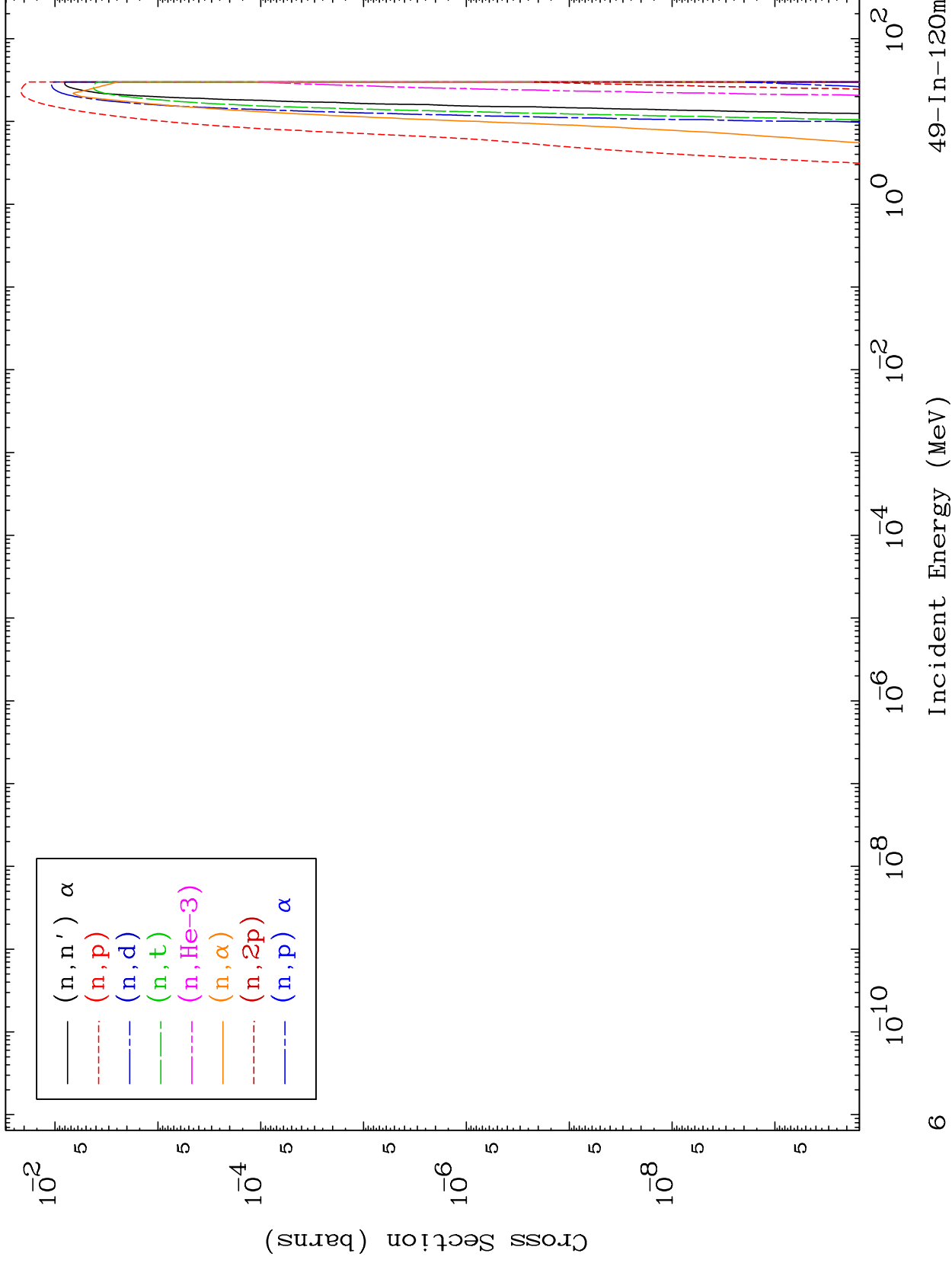
Incident Energy (MeV)

49-In-120m

MAT 4947

Charged Particle
293 Kelvin Cross Sections

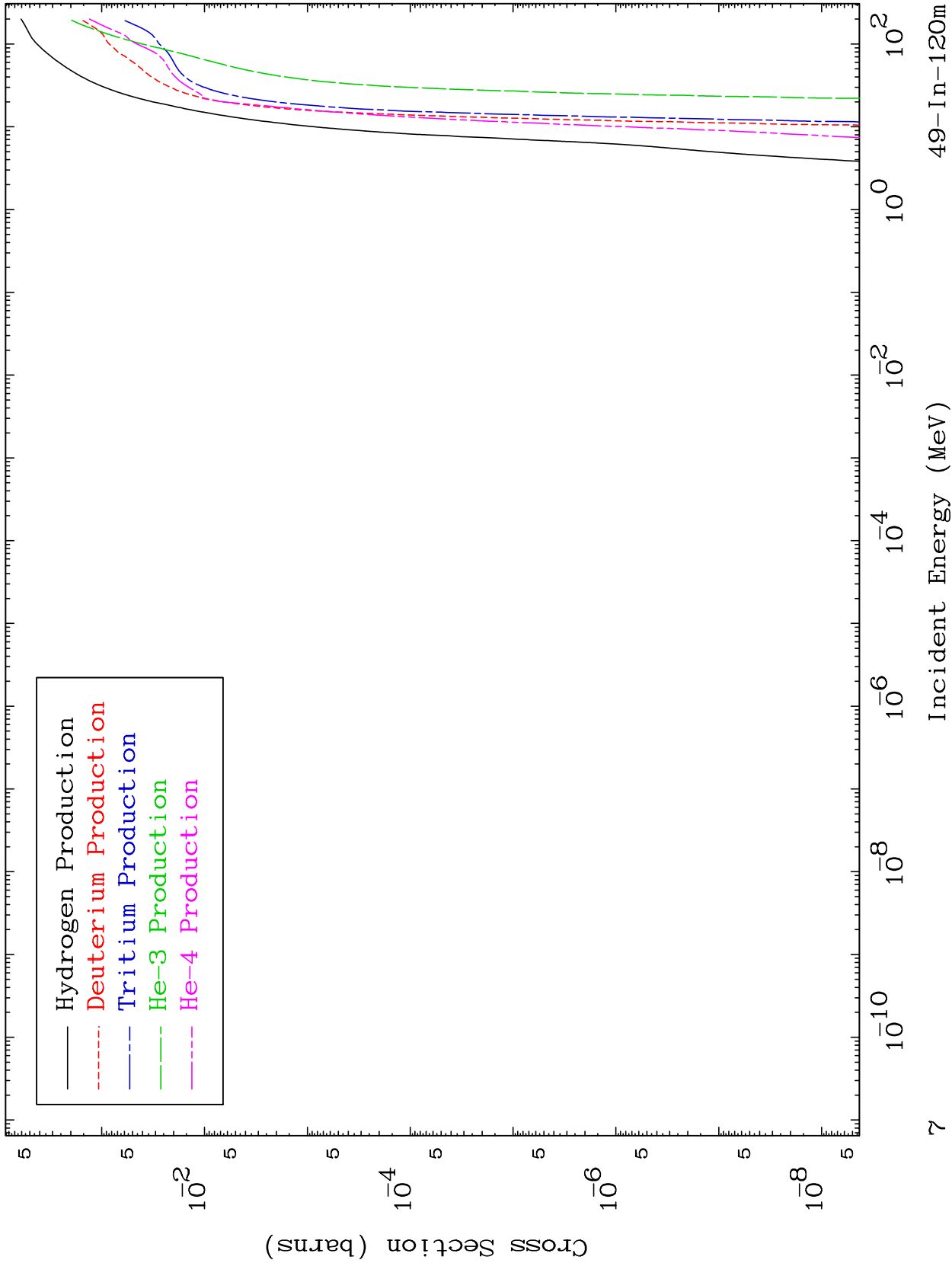
49-In-120m



MAT 4947

Particle Production
293 Kelvin Cross Sections

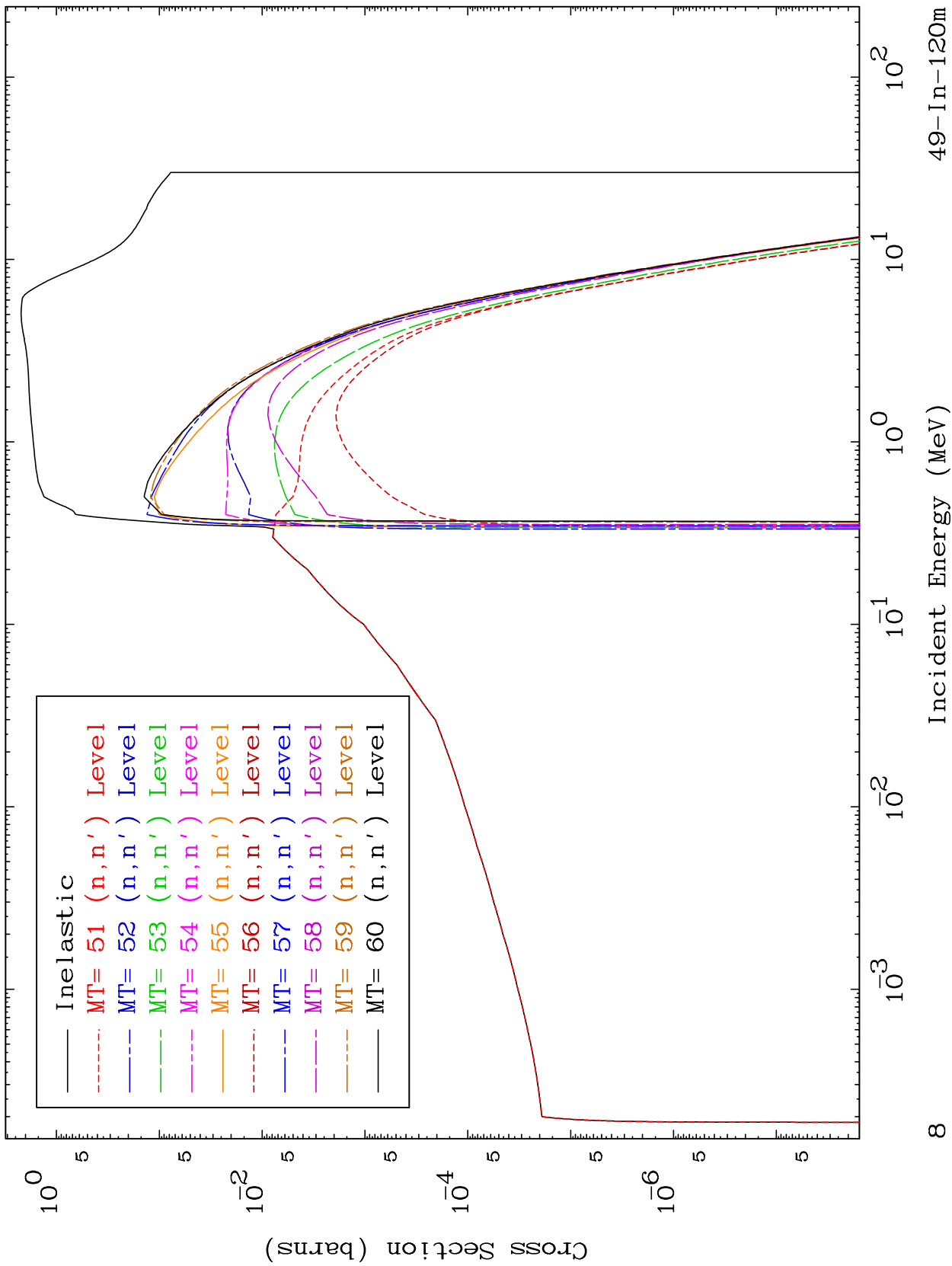
49-In-120m



MAT 4947

(n,n') Levels
293 Kelvin Cross Sections

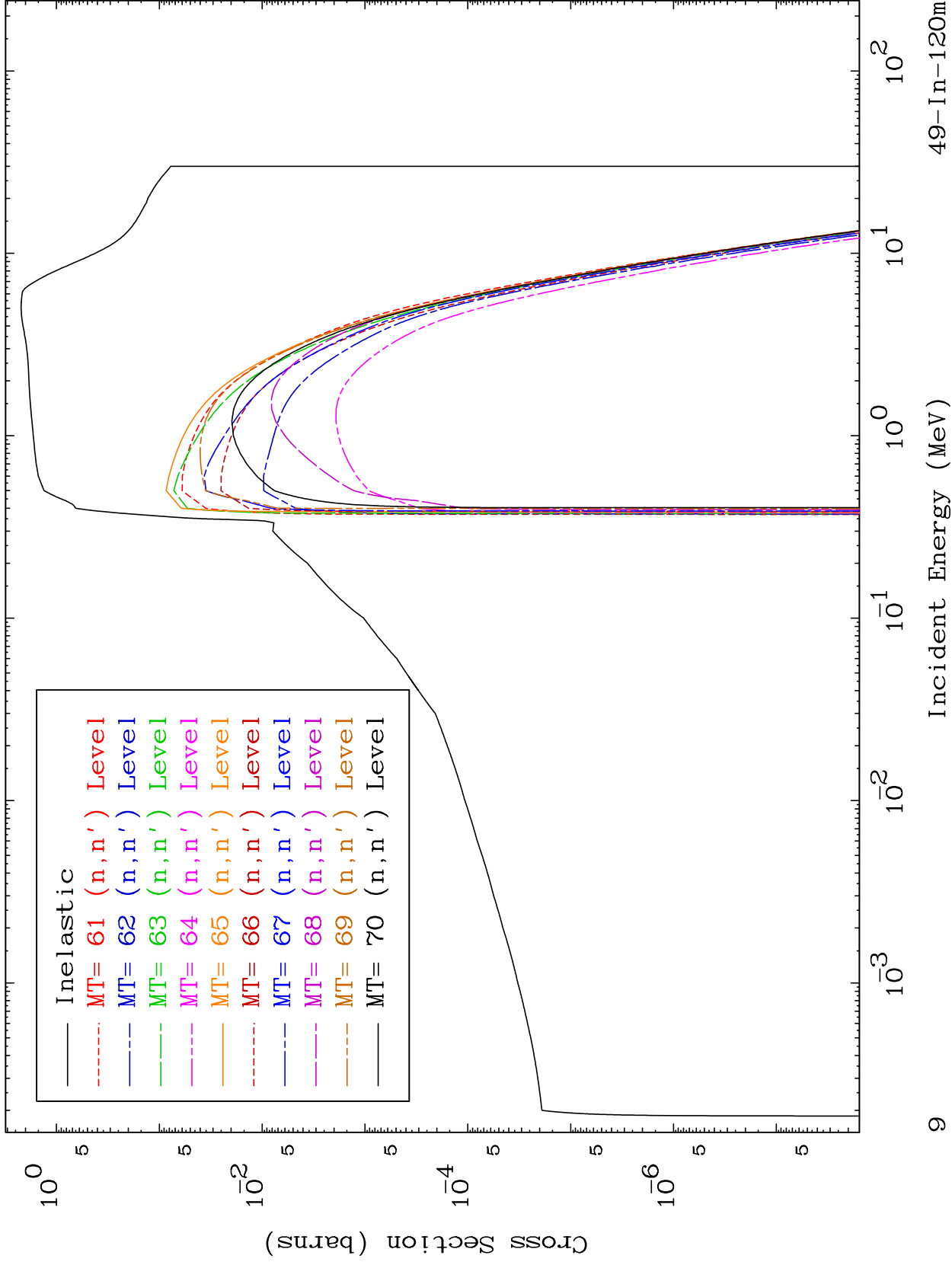
49-In-120m



MAT 4947

(n,n') Levels
293 Kelvin Cross Sections

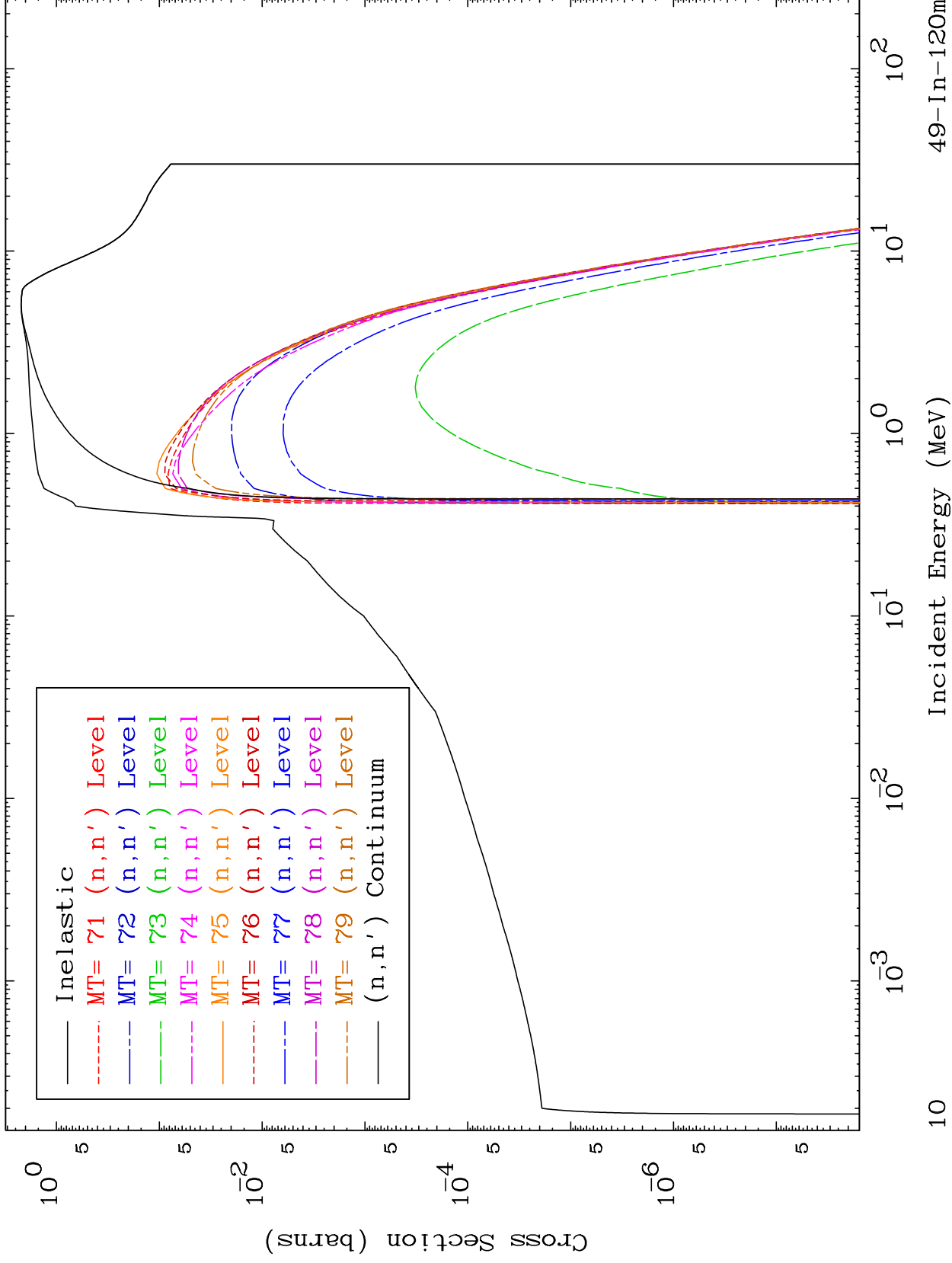
49-In-120m



MAT 4947

(n,n') Levels
293 Kelvin Cross Sections

49-In-120m



10

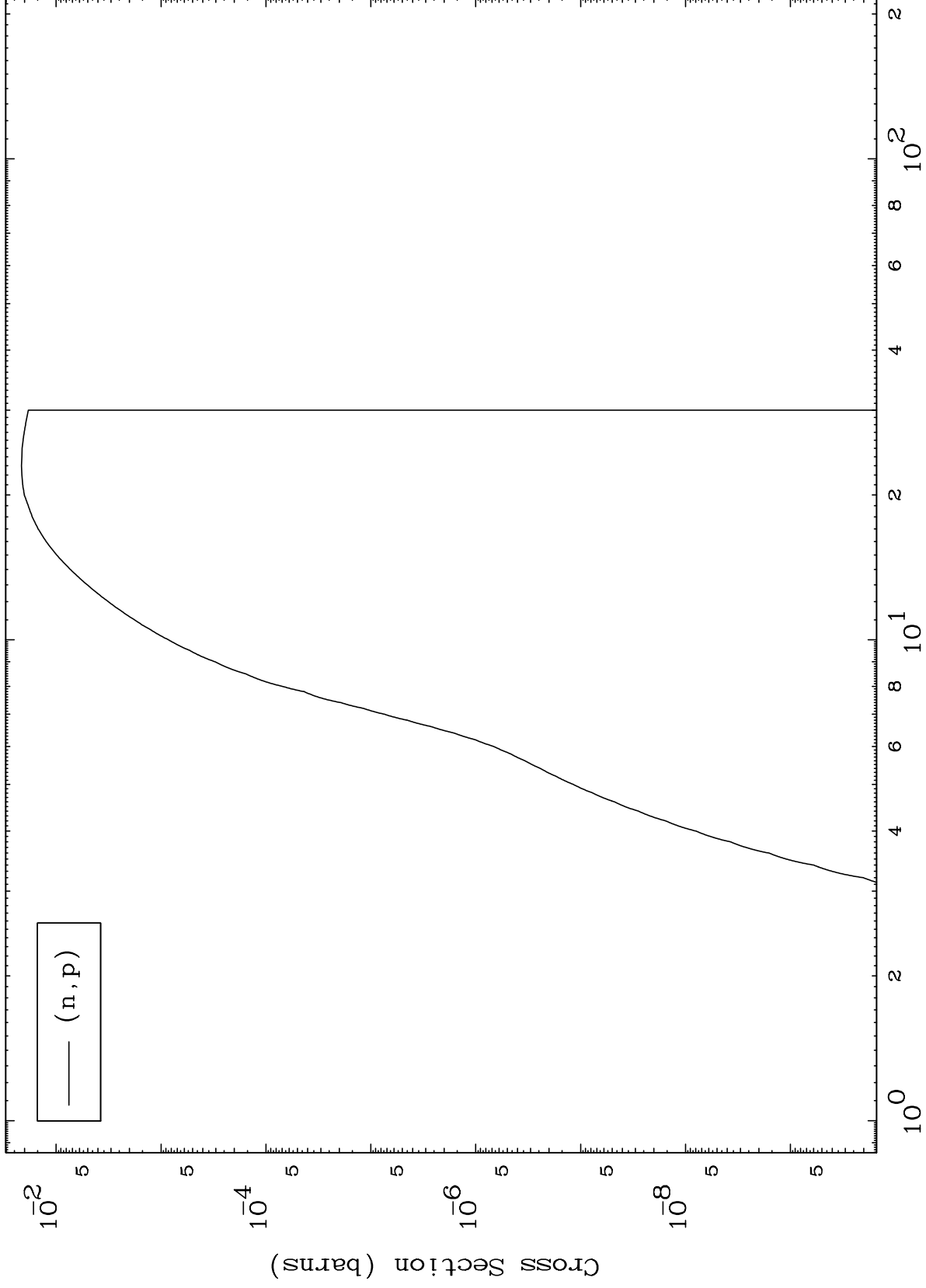
Incident Energy (MeV)

49-In-120m

MAT 4947

(n,p) Levels
293 Kelvin Cross Sections

49-In-120m



(n,p)

Incident Energy (MeV)

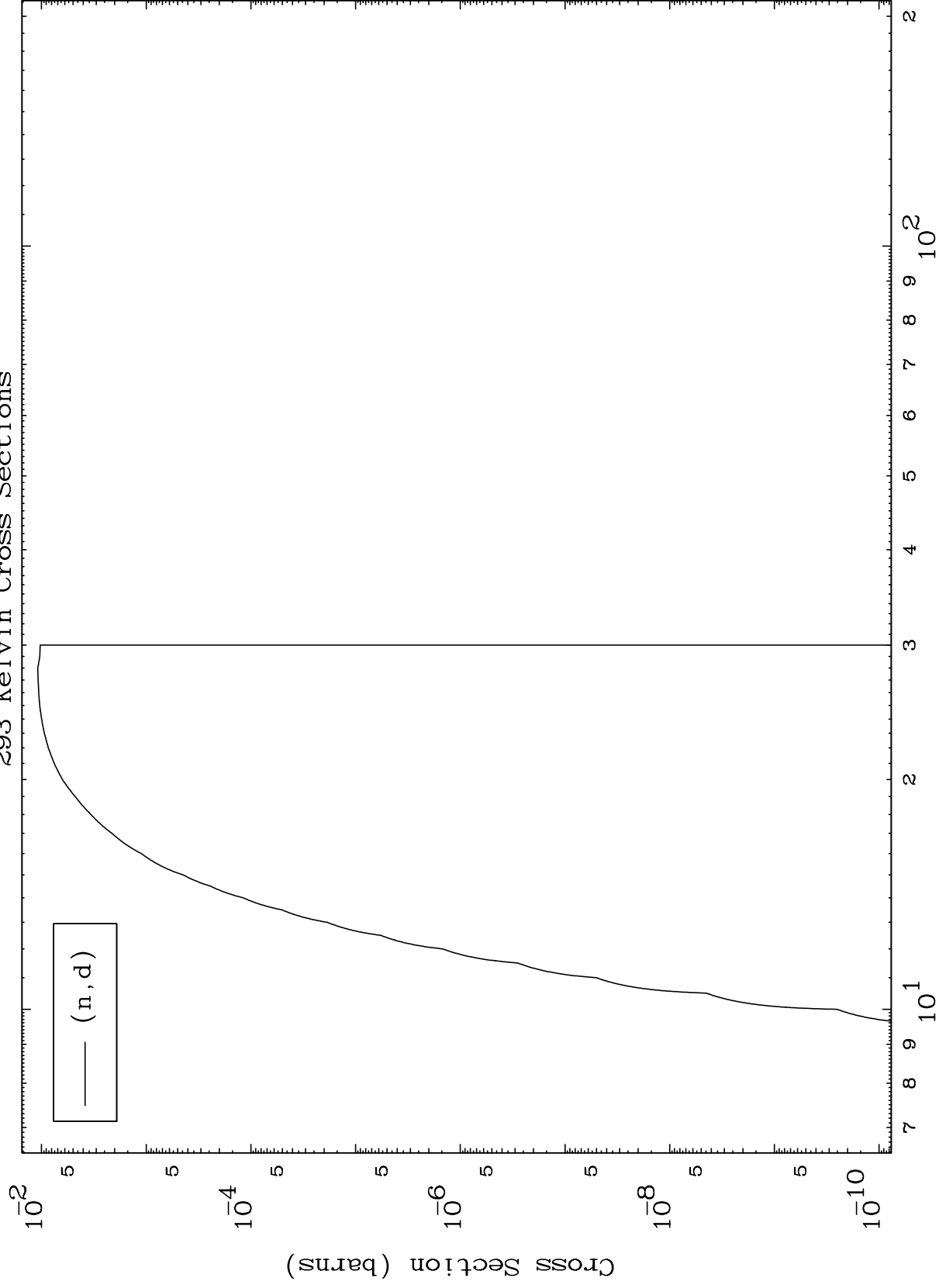
49-In-120m

11

MAT 4947

(n,d) Levels
293 Kelvin Cross Sections

49-In-120m



12

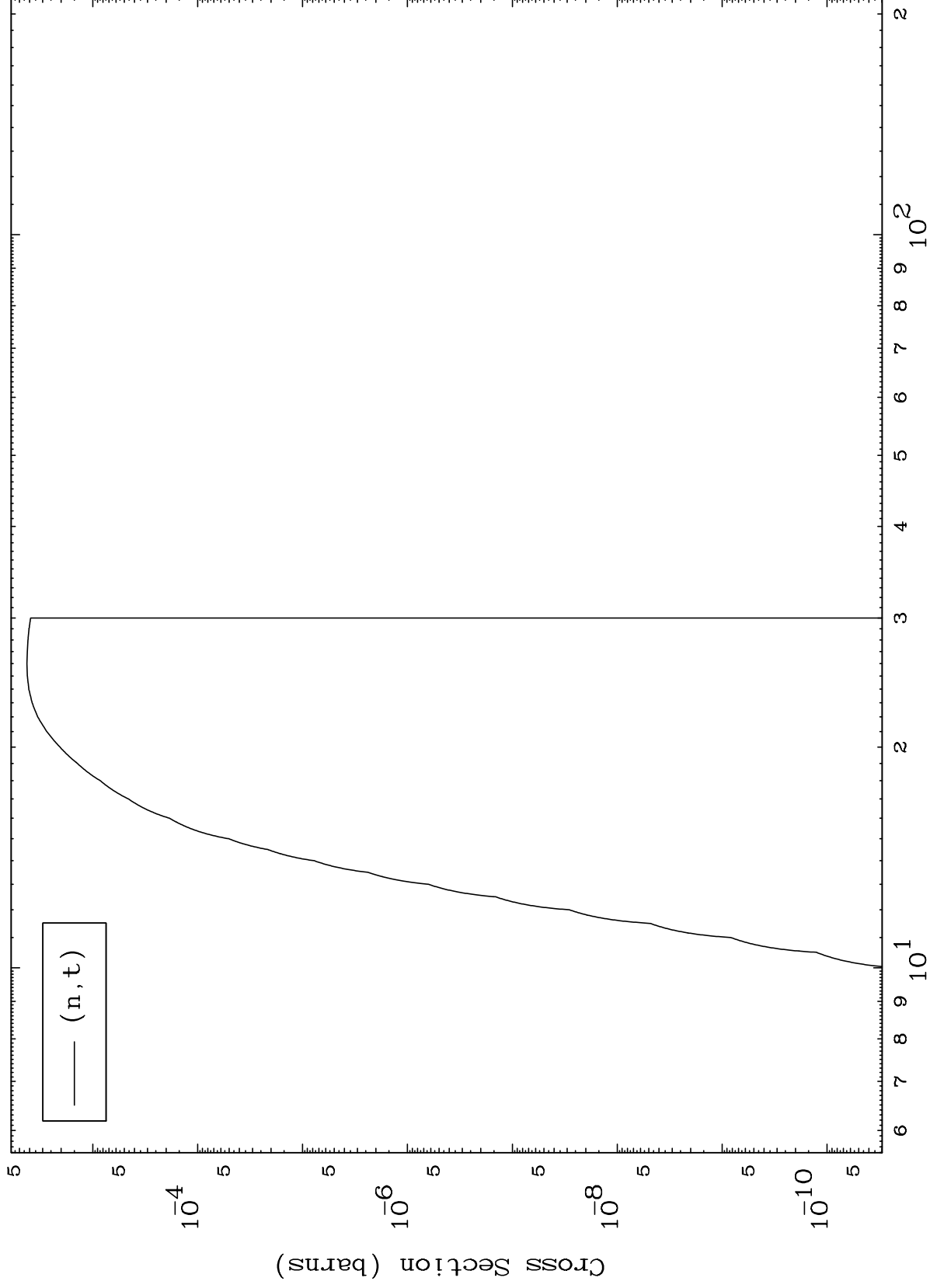
Incident Energy (MeV)

49-In-120m

MAT 4947

(n, t) Levels
293 Kelvin Cross Sections

49-In-120m



13

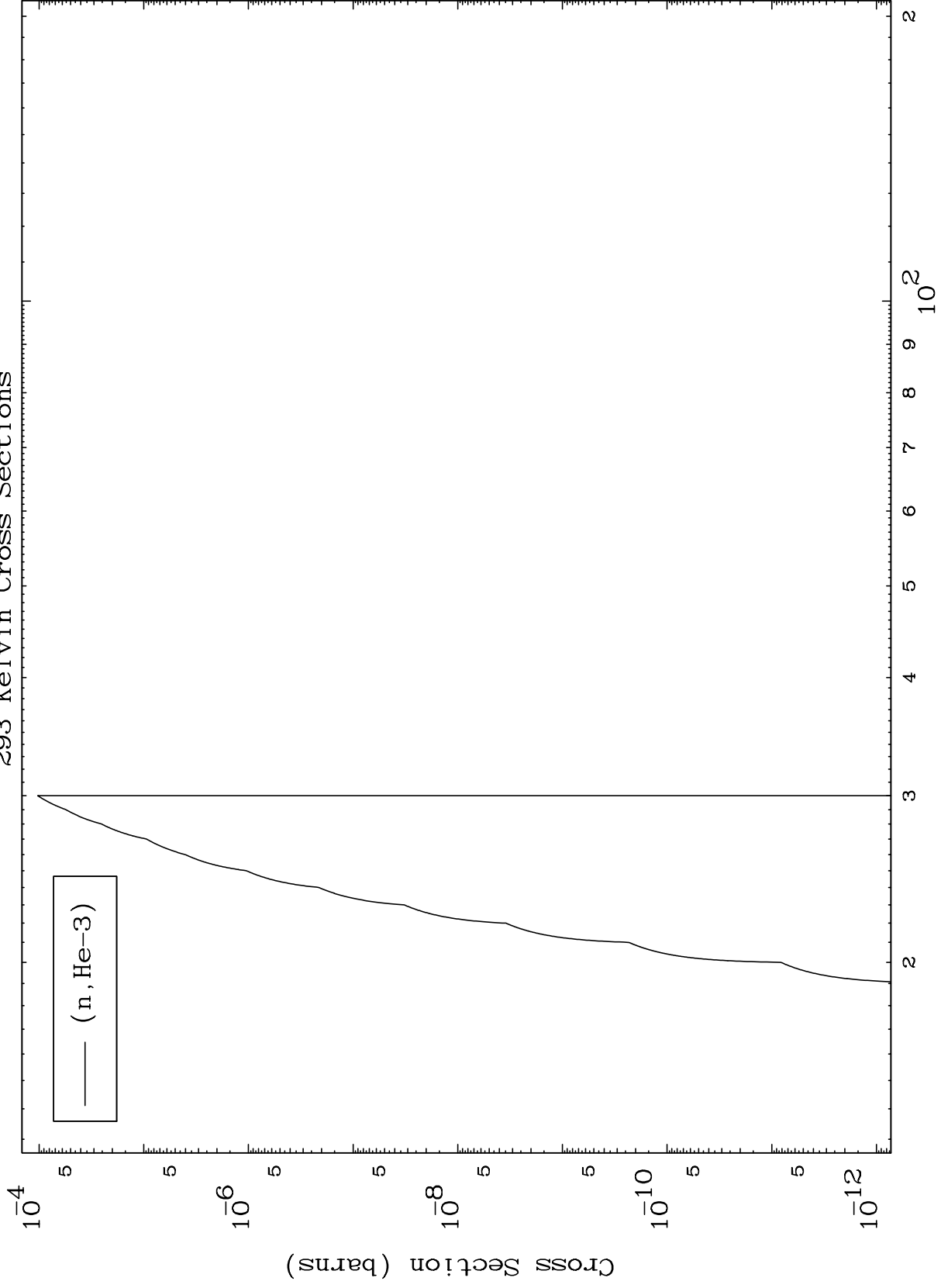
Incident Energy (MeV)

49-In-120m

MAT 4947

(n,He3) Levels
293 Kelvin Cross Sections

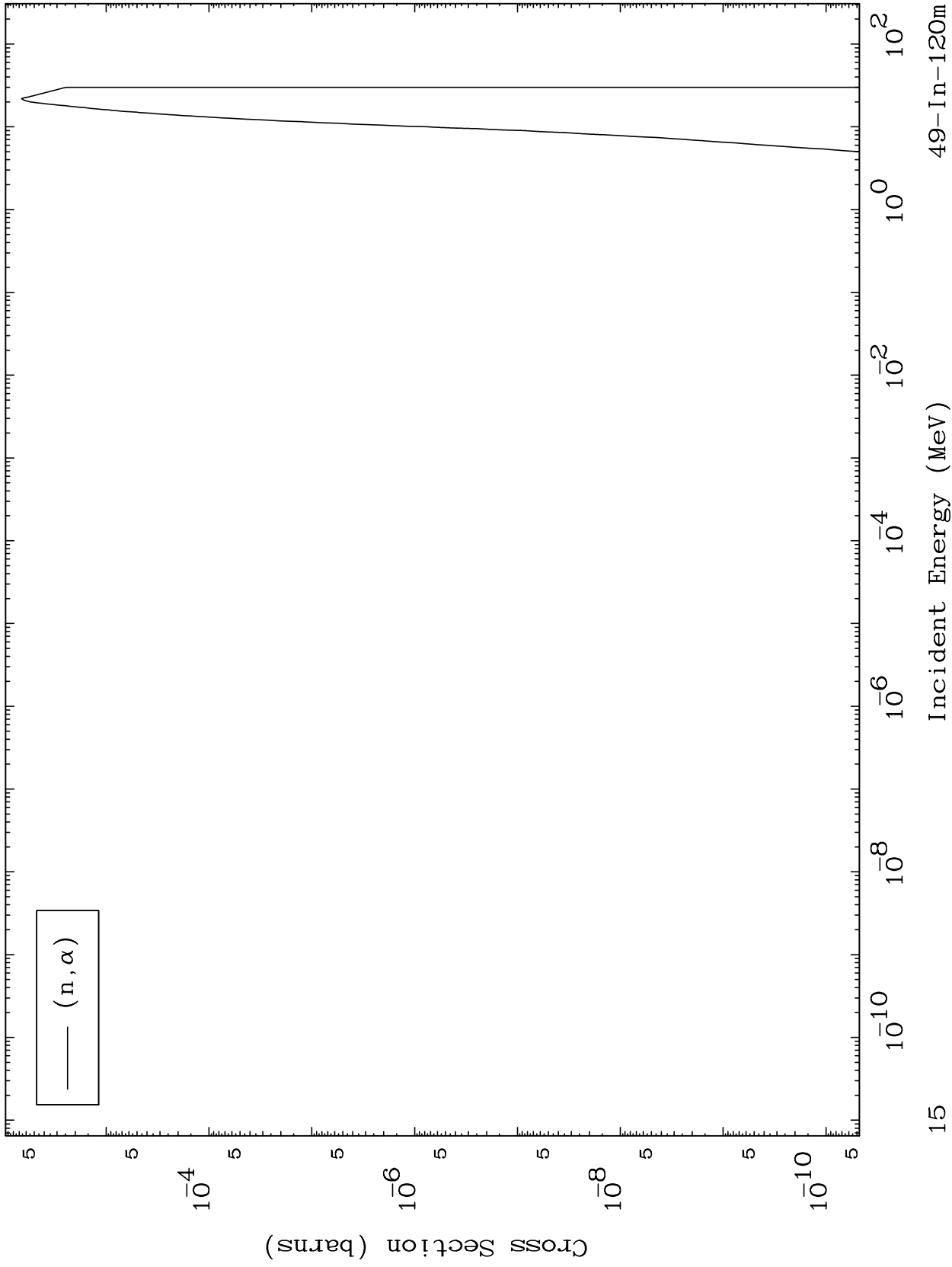
49-In-120m



MAT 4947

(n, α) Levels
293 Kelvin Cross Sections

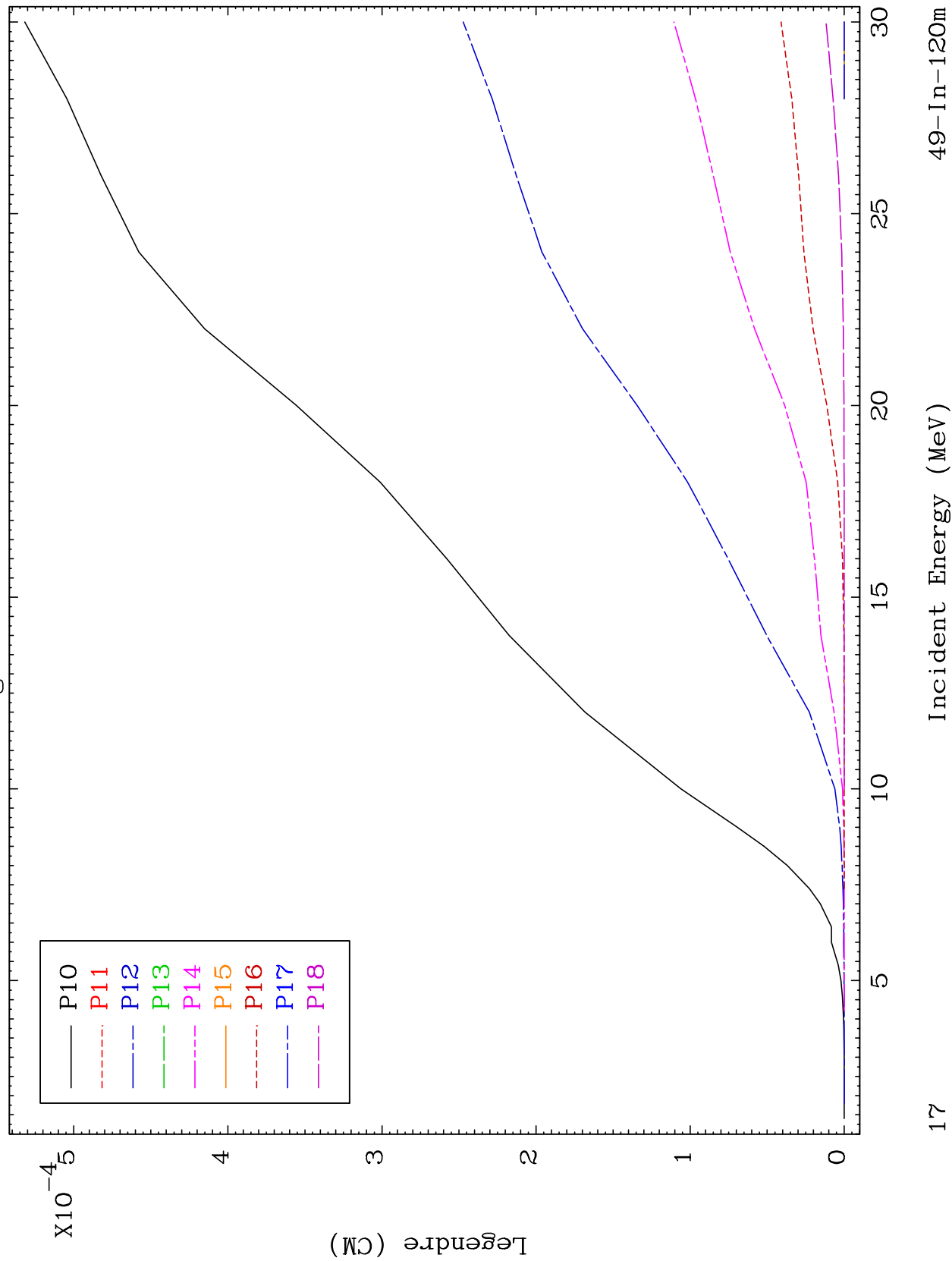
49-In-120m



MAT 4947

Elastic Legendre Coefficients

49-In-120m



17

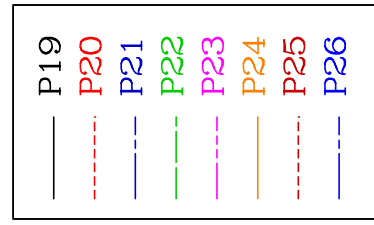
Incident Energy (MeV)

49-In-120m

MAT 4947

Elastic Legendre Coefficients

49-In-120m



$\times 10^{-7}$

Legendre (CM)

4

2

0

15

20

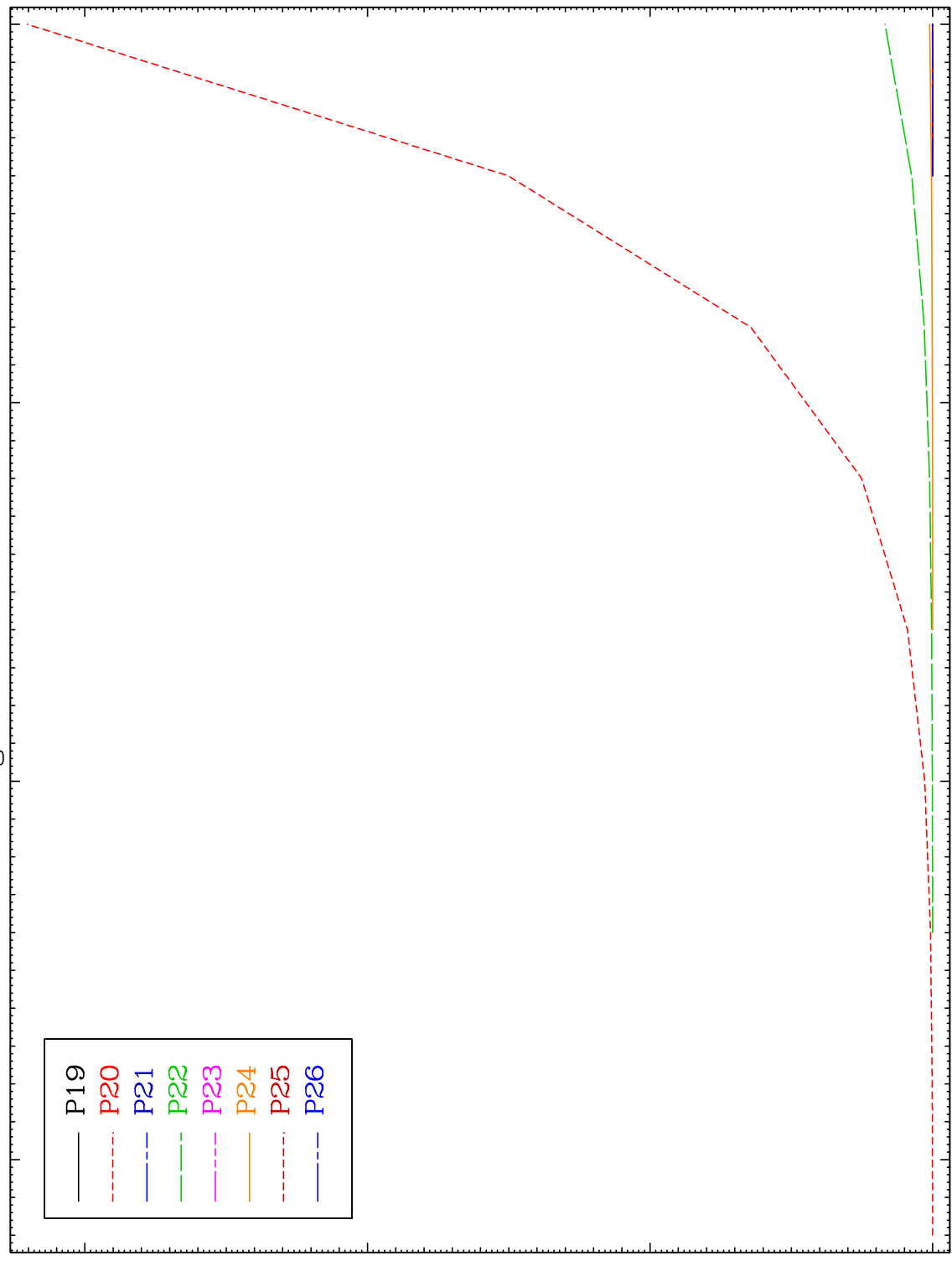
25

30

18

Incident Energy (MeV)

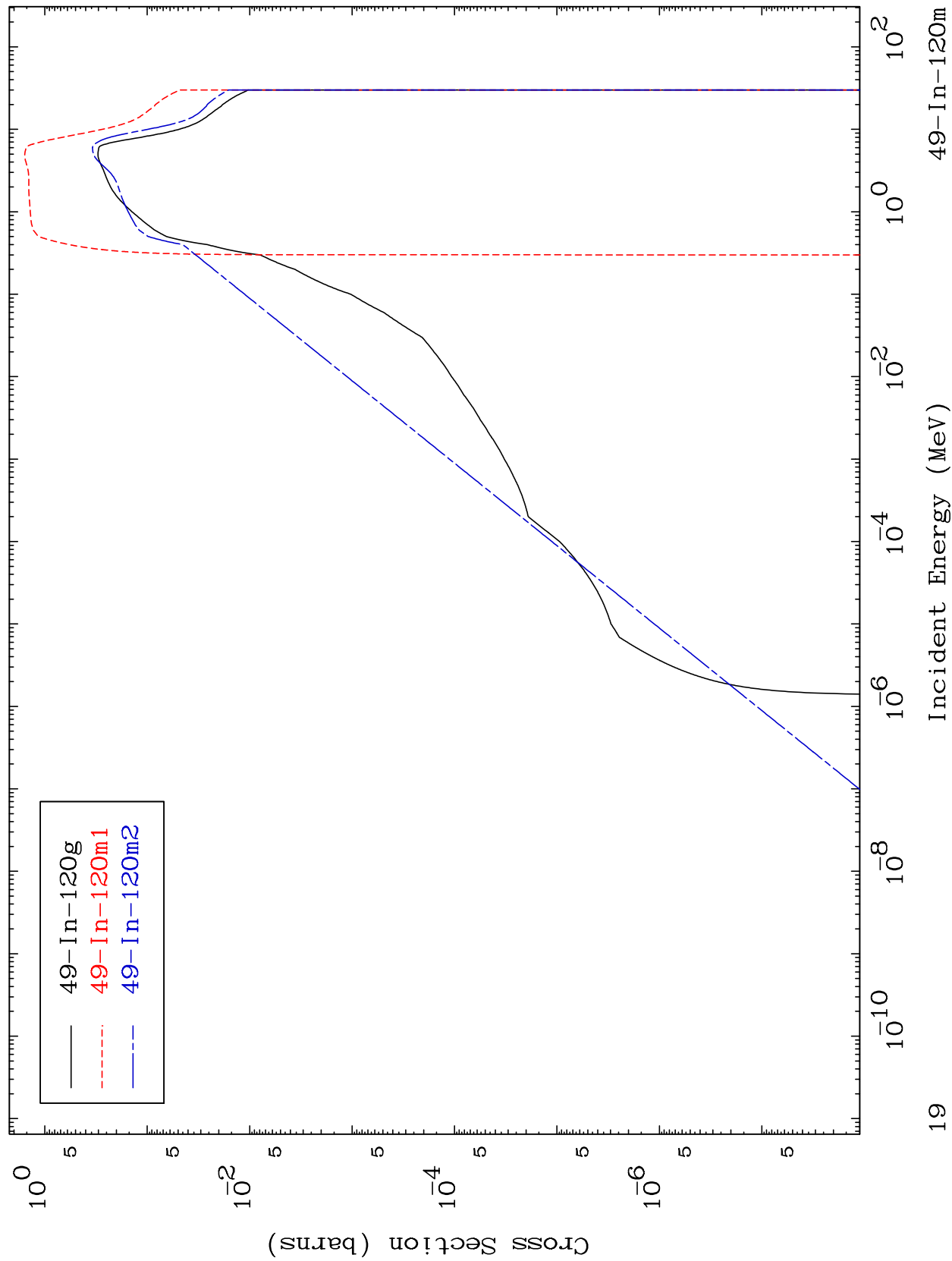
49-In-120m



MAT 4947

49-In-120m

Inelastic
Radionuclide Production Cross Section

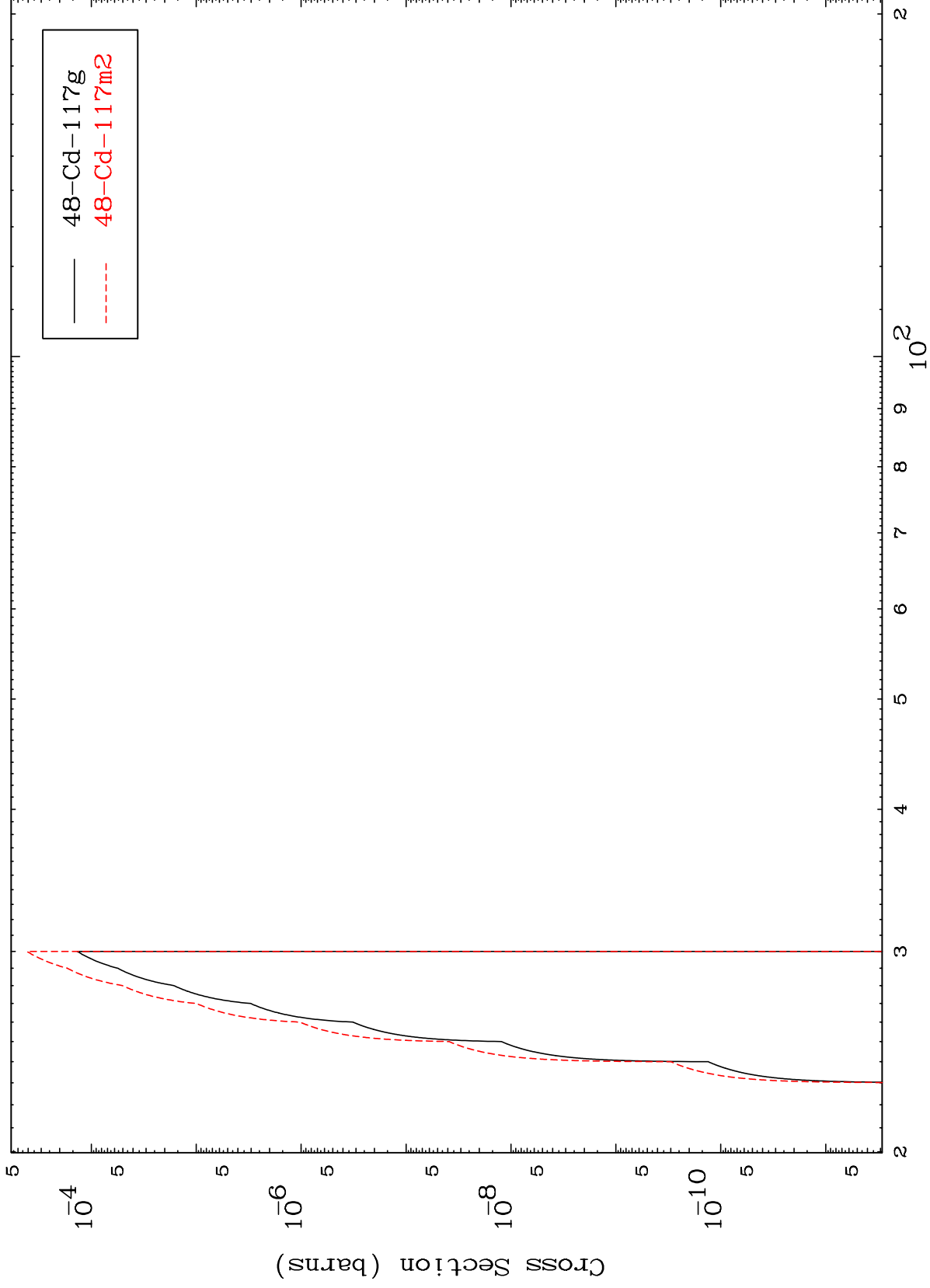


MAT 4947

(n,2n) d

49-In-120m

Radionuclide Production Cross Section



20

Incident Energy (MeV)

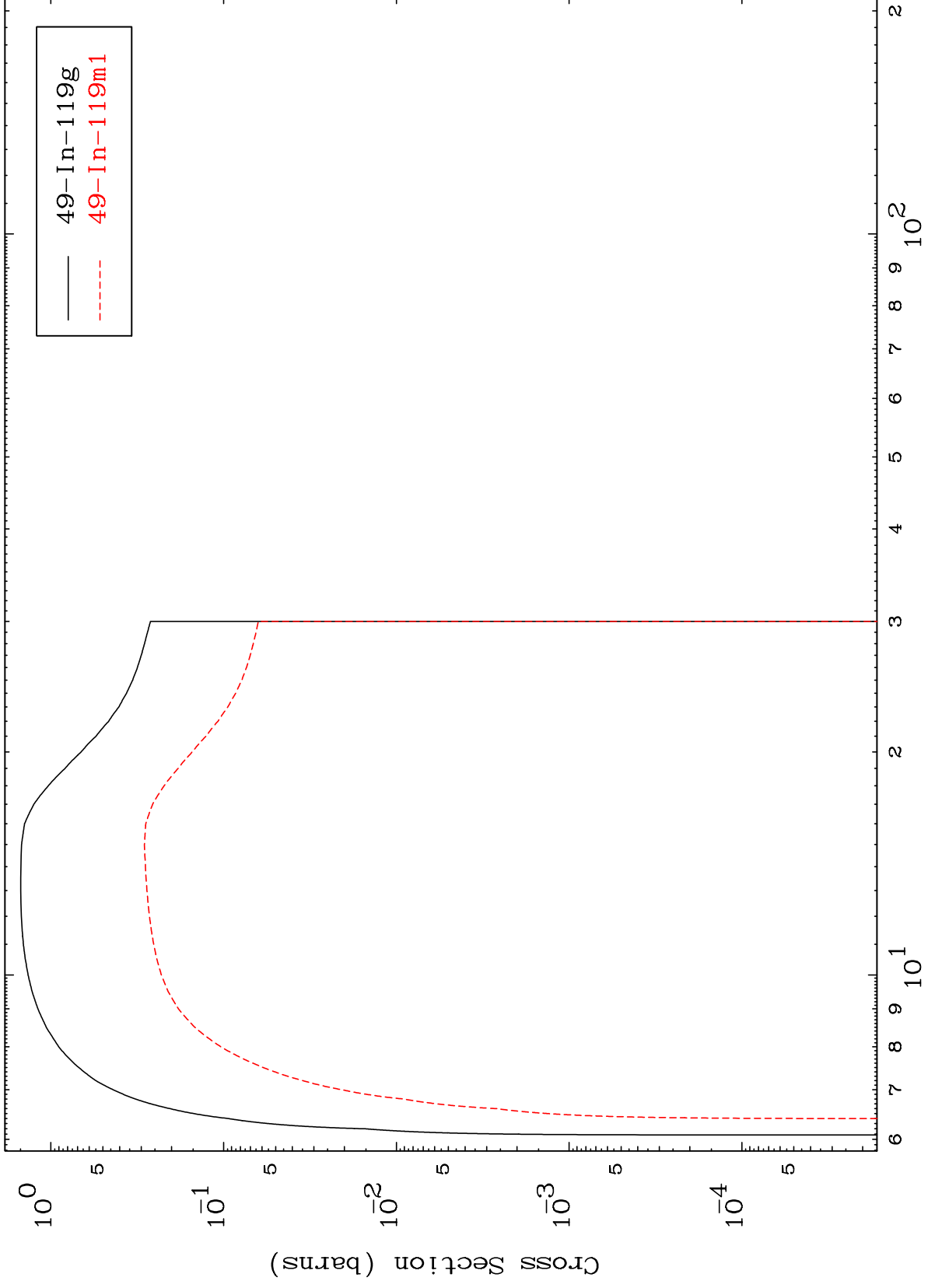
49-In-120m

MAT 4947

(n,2n)

49-In-120m

Radionuclide Production Cross Section



21

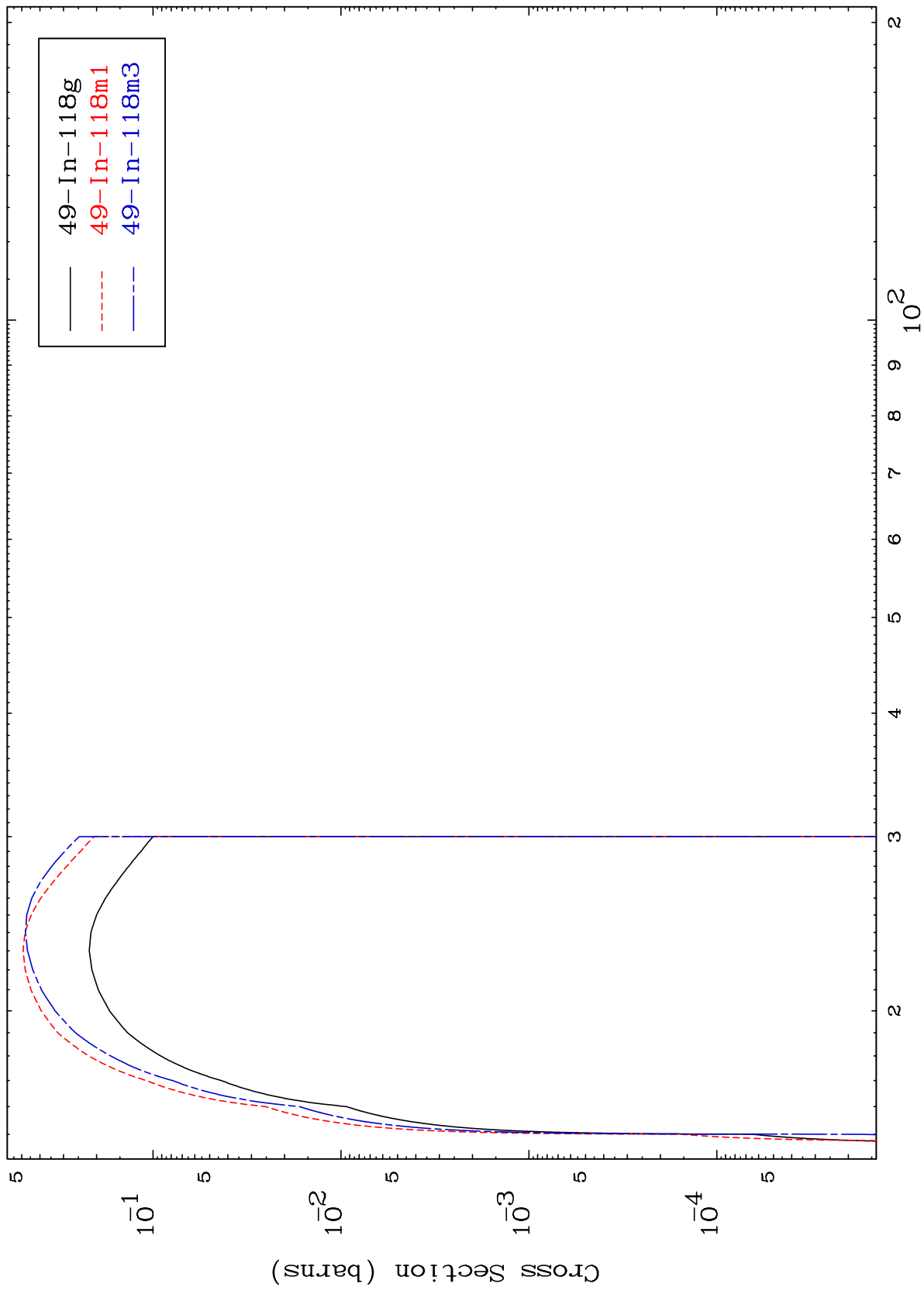
Incident Energy (MeV)

49-In-120m

MAT 4947

49-In-120m

(n,3n)
Radionuclide Production Cross Section



22

49-In-120m

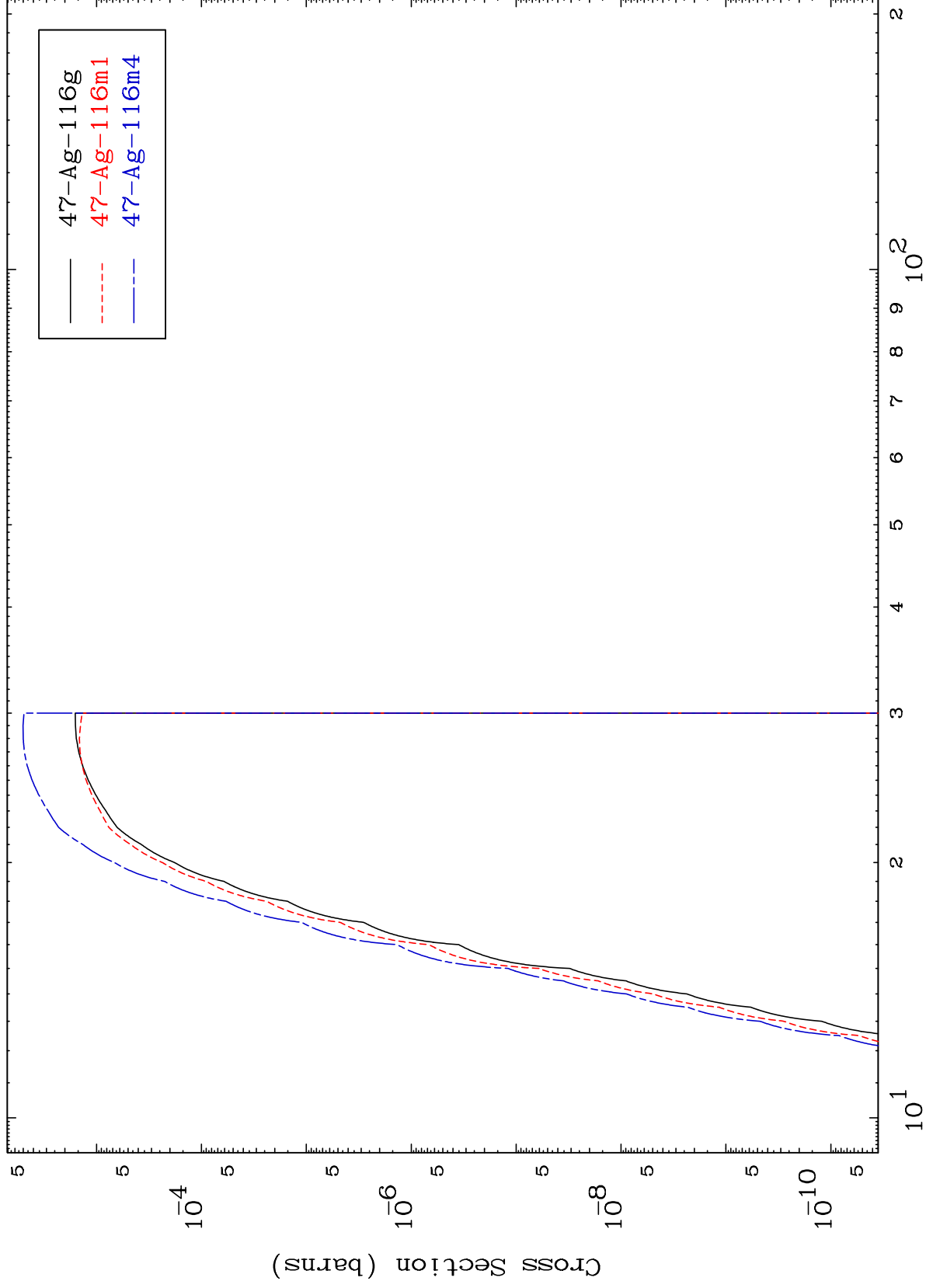
Incident Energy (MeV)

MAT 4947

$(n, n') \alpha$

49-In-120m

Radionuclide Production Cross Section



Incident Energy (MeV)

49-In-120m

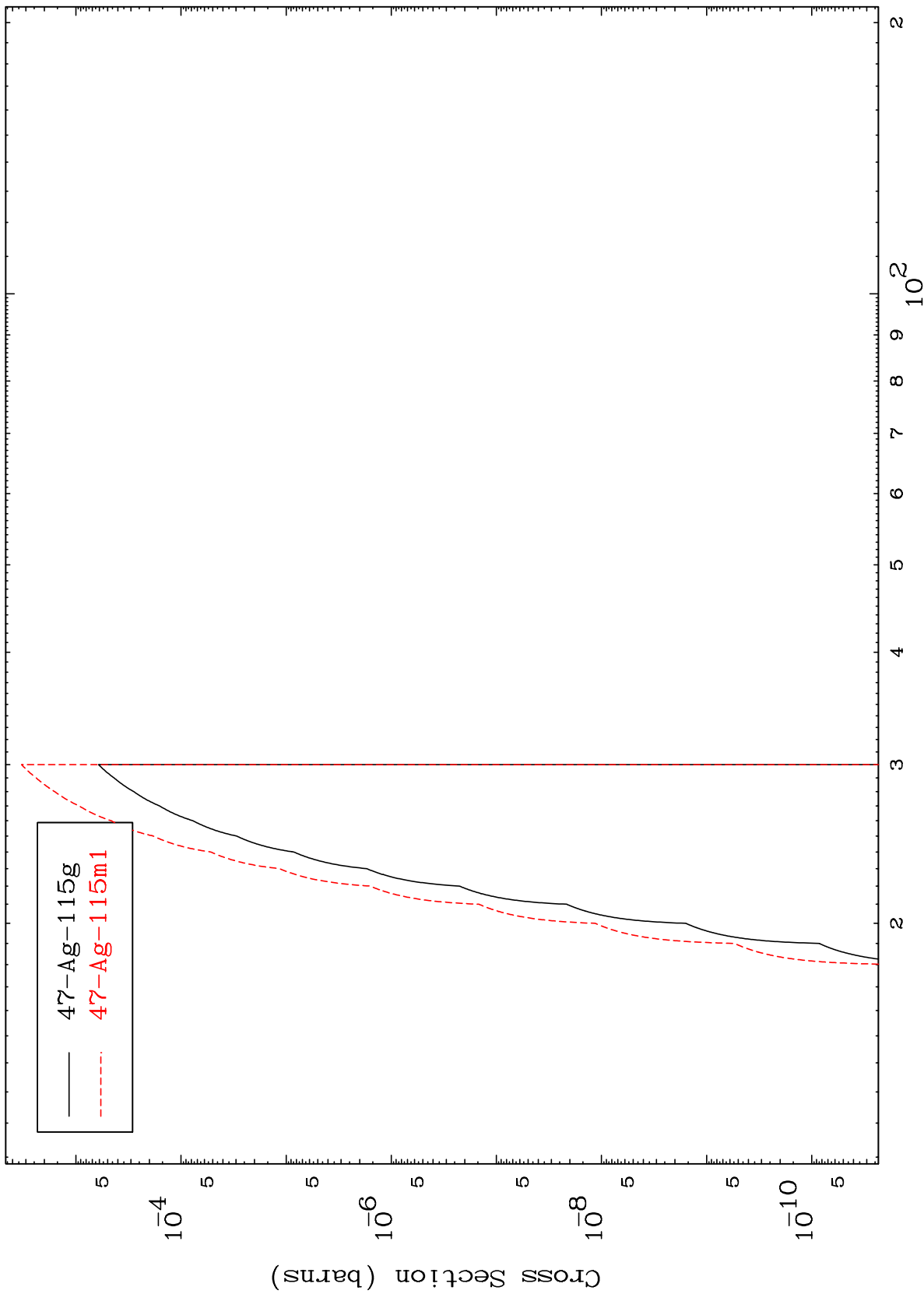
23

MAT 4947

(n,2n) α

49-In-120m

Radionuclide Production Cross Section



24

Incident Energy (MeV)

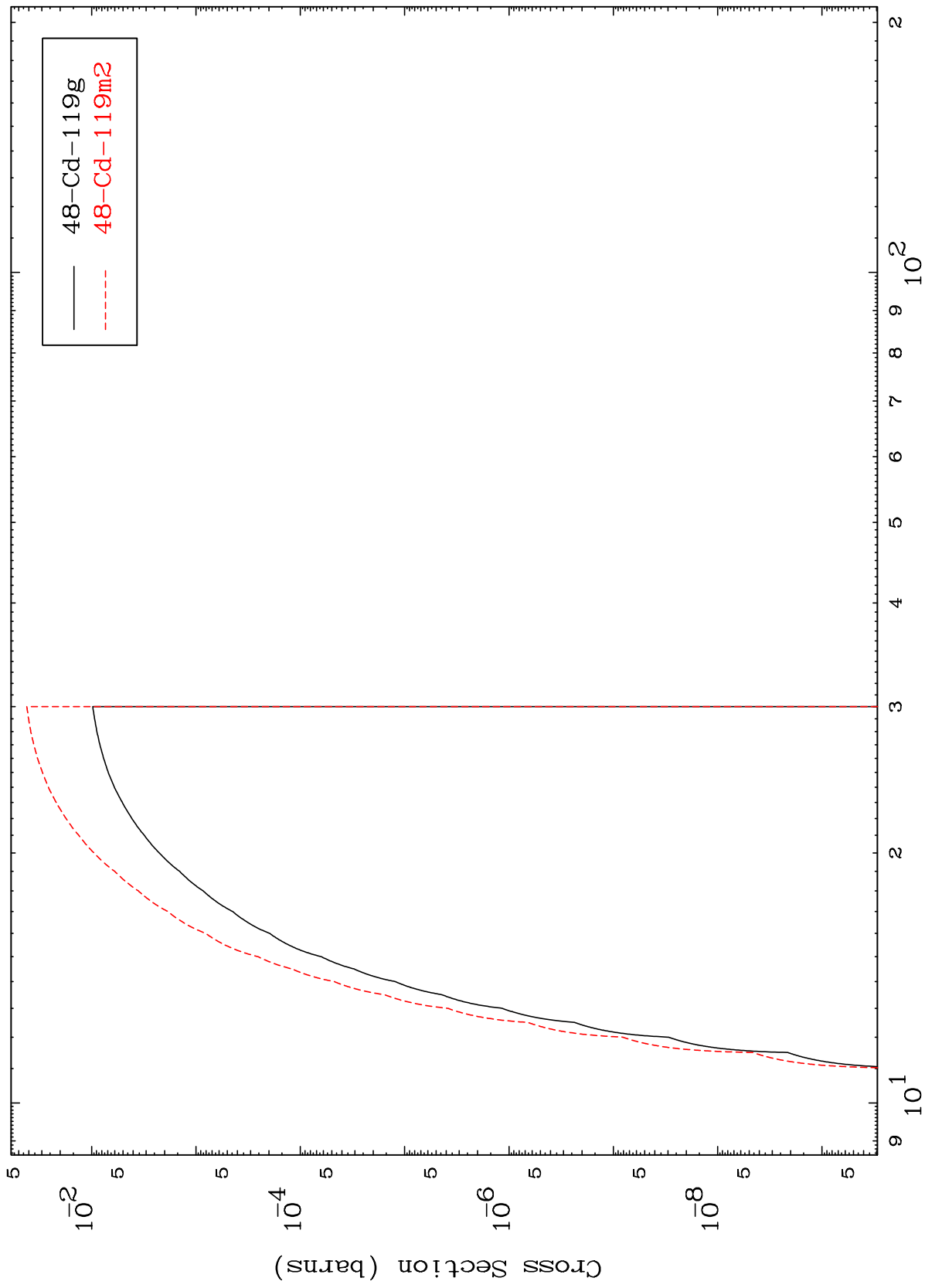
49-In-120m

MAT 4947

(n,n') p

49-In-120m

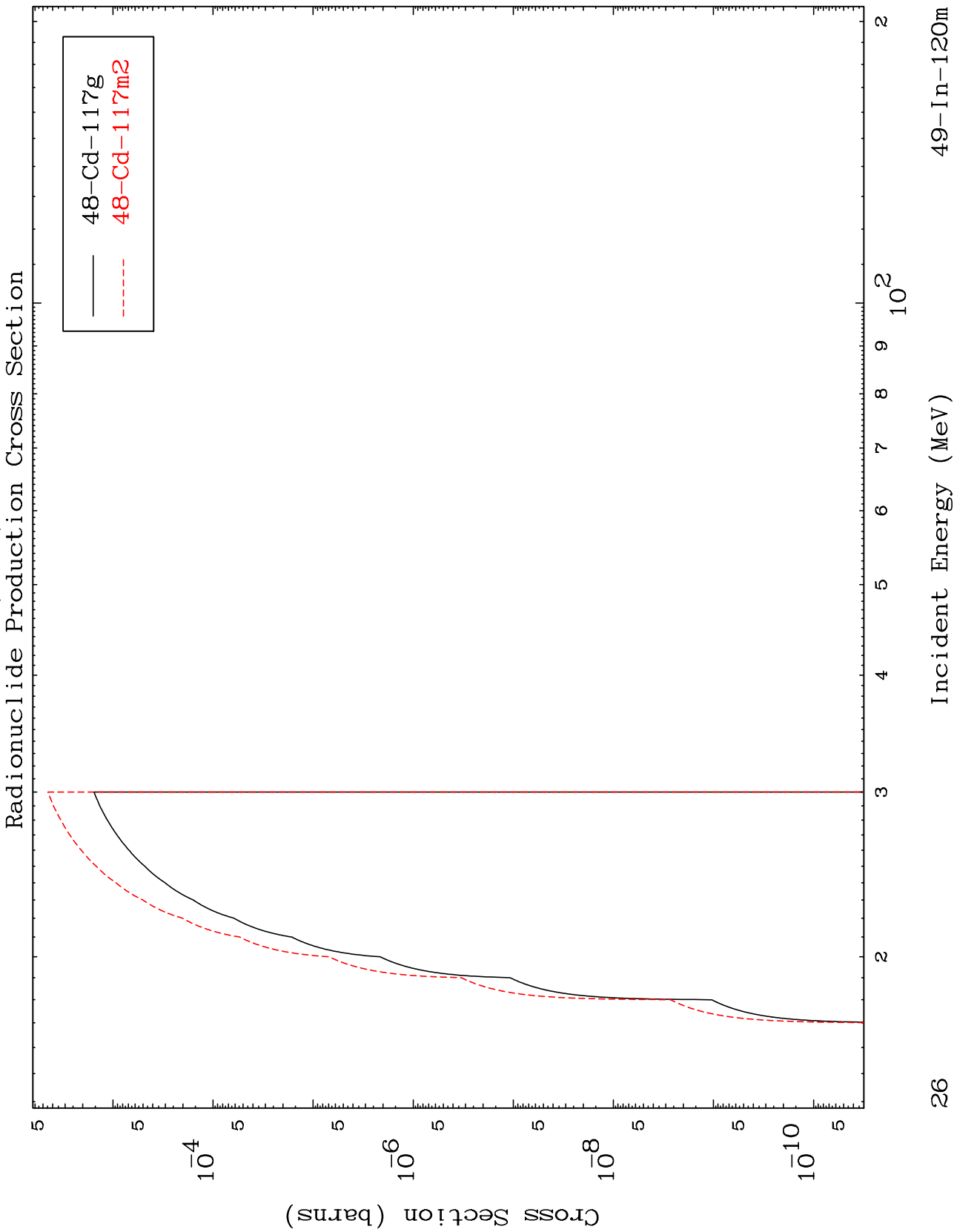
Radionuclide Production Cross Section



25

Incident Energy (MeV)

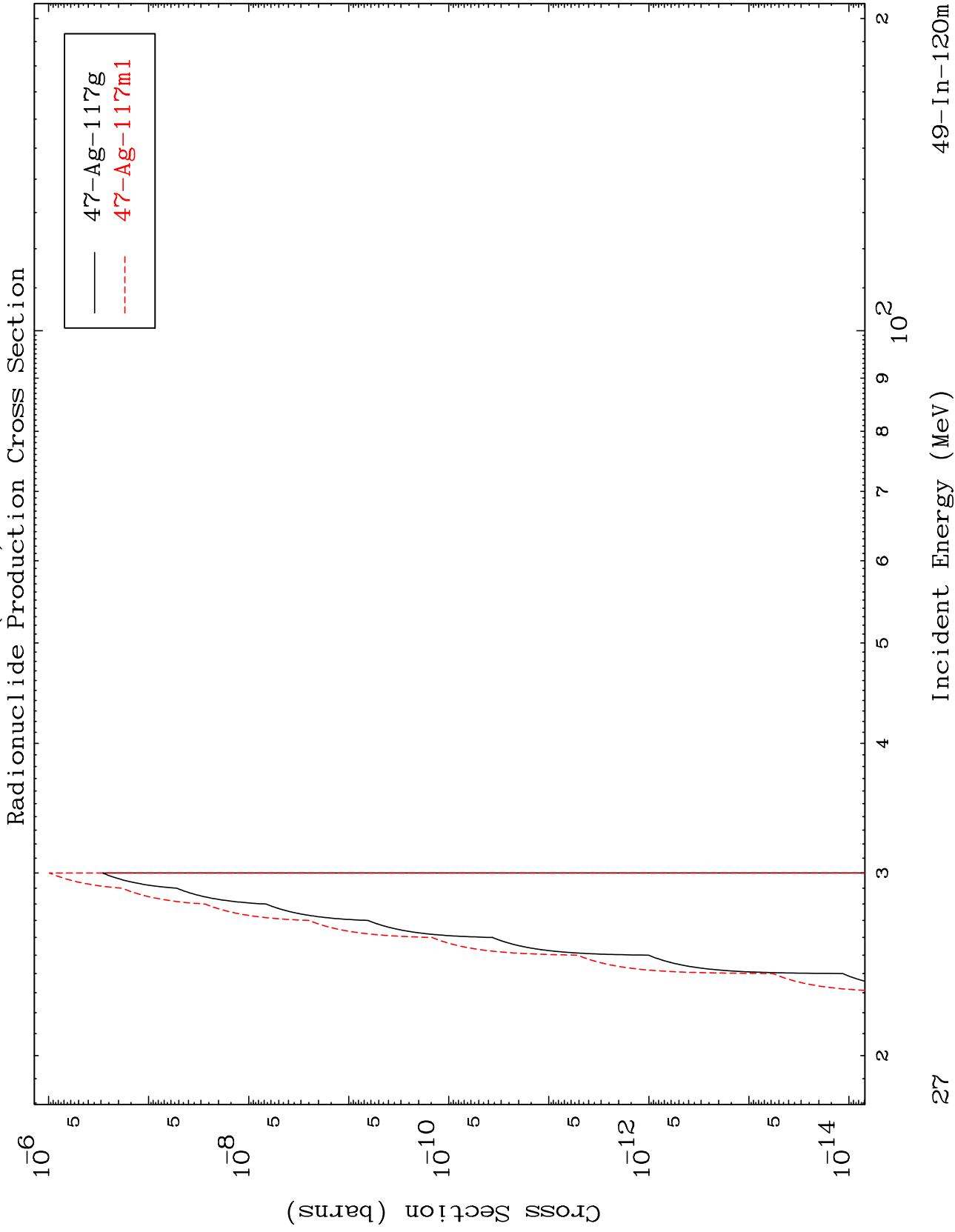
49-In-120m



MAT 4947

(n,n') He-3

49-In-120m



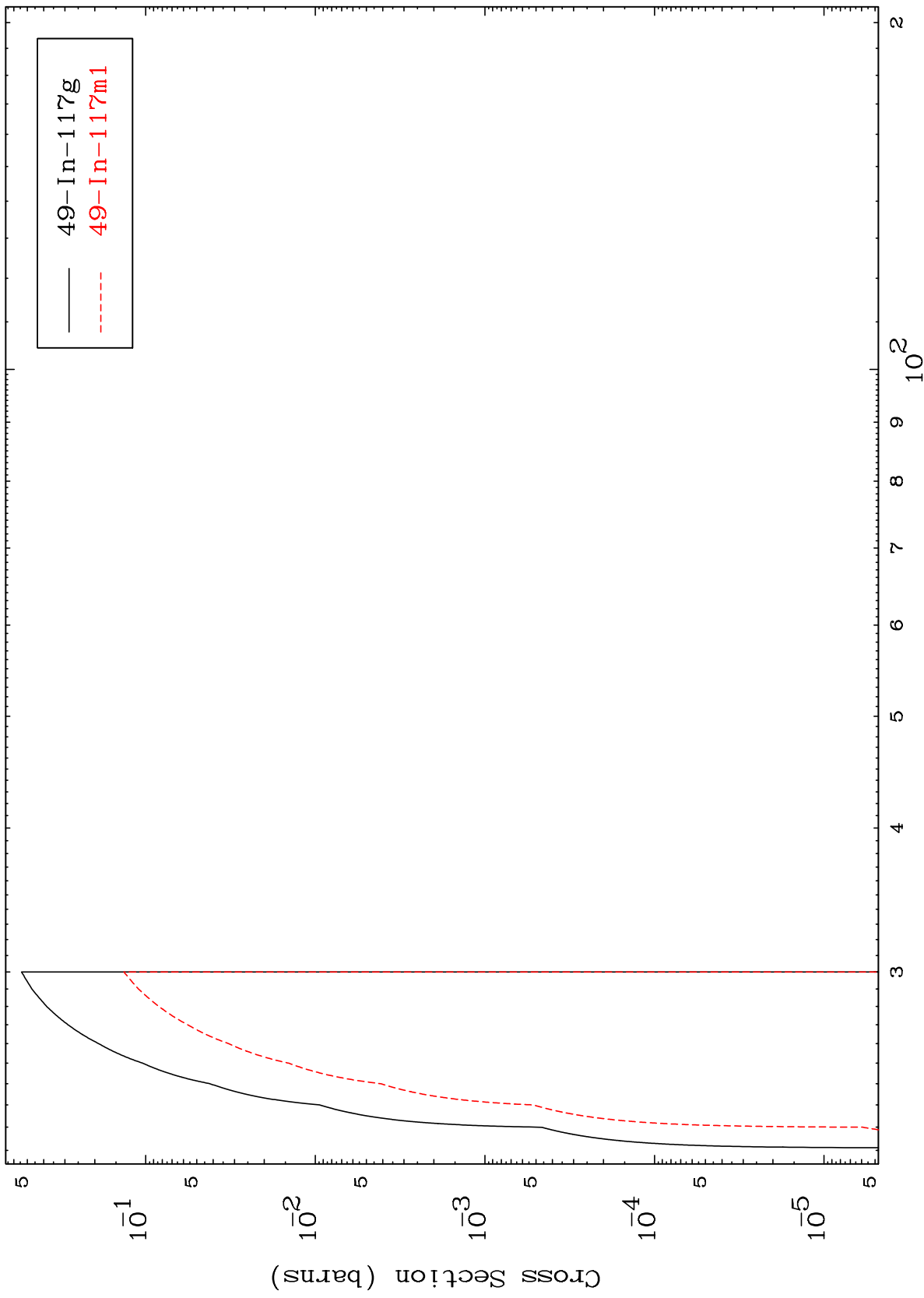
27

49-In-120m

MAT 4947

49-In-120m

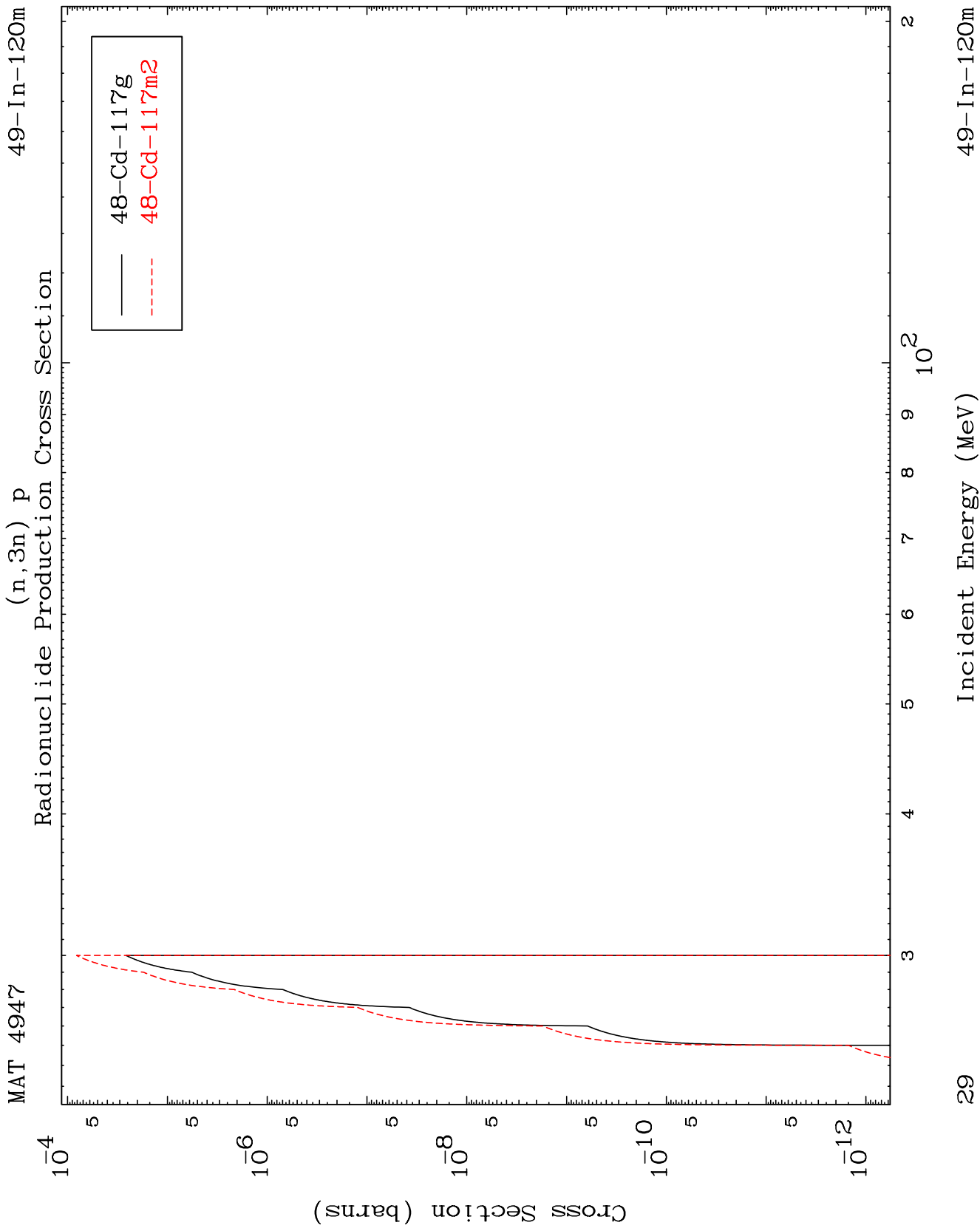
(n,4n)
Radionuclide Production Cross Section



28

Incident Energy (MeV)

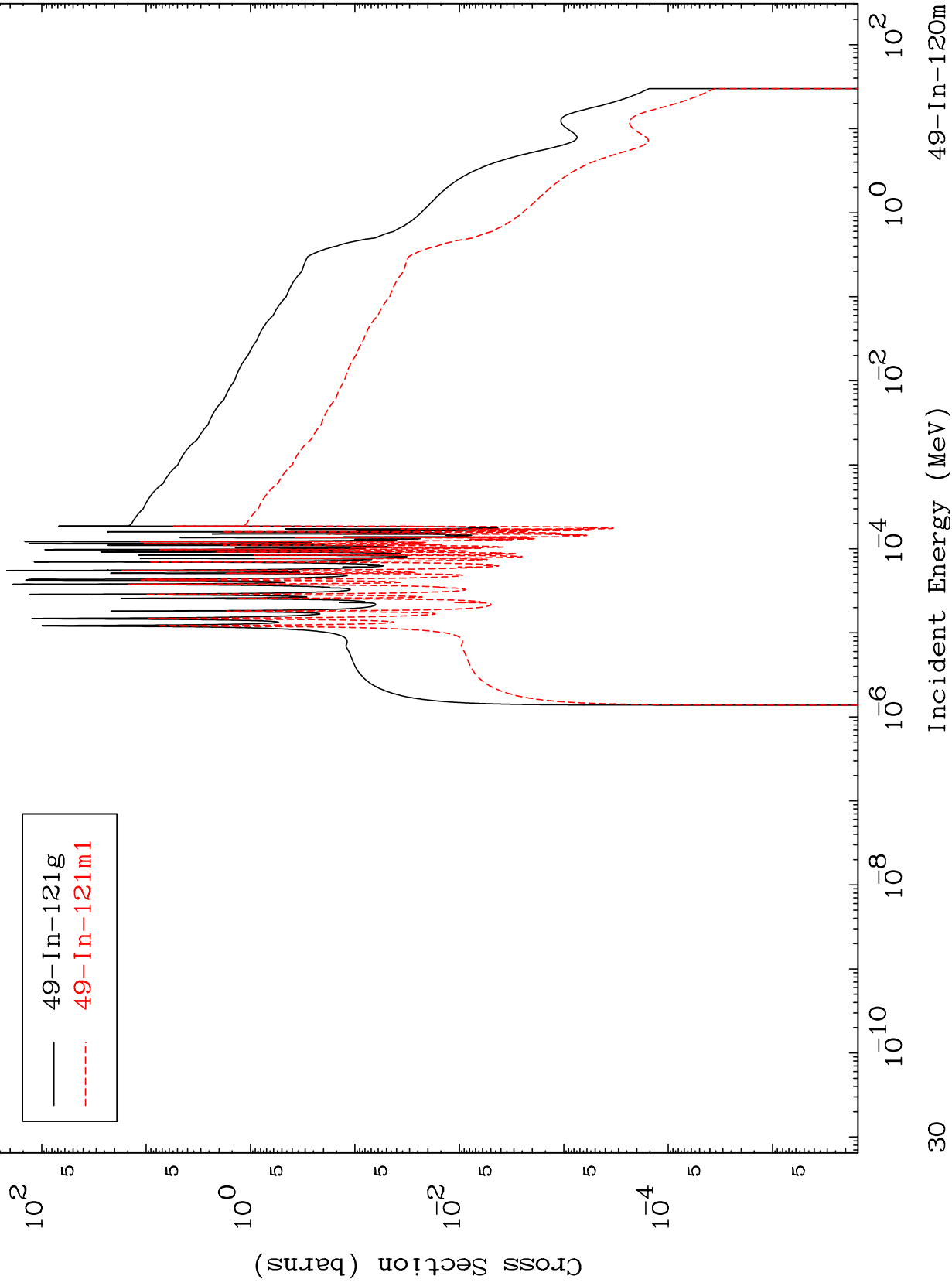
49-In-120m

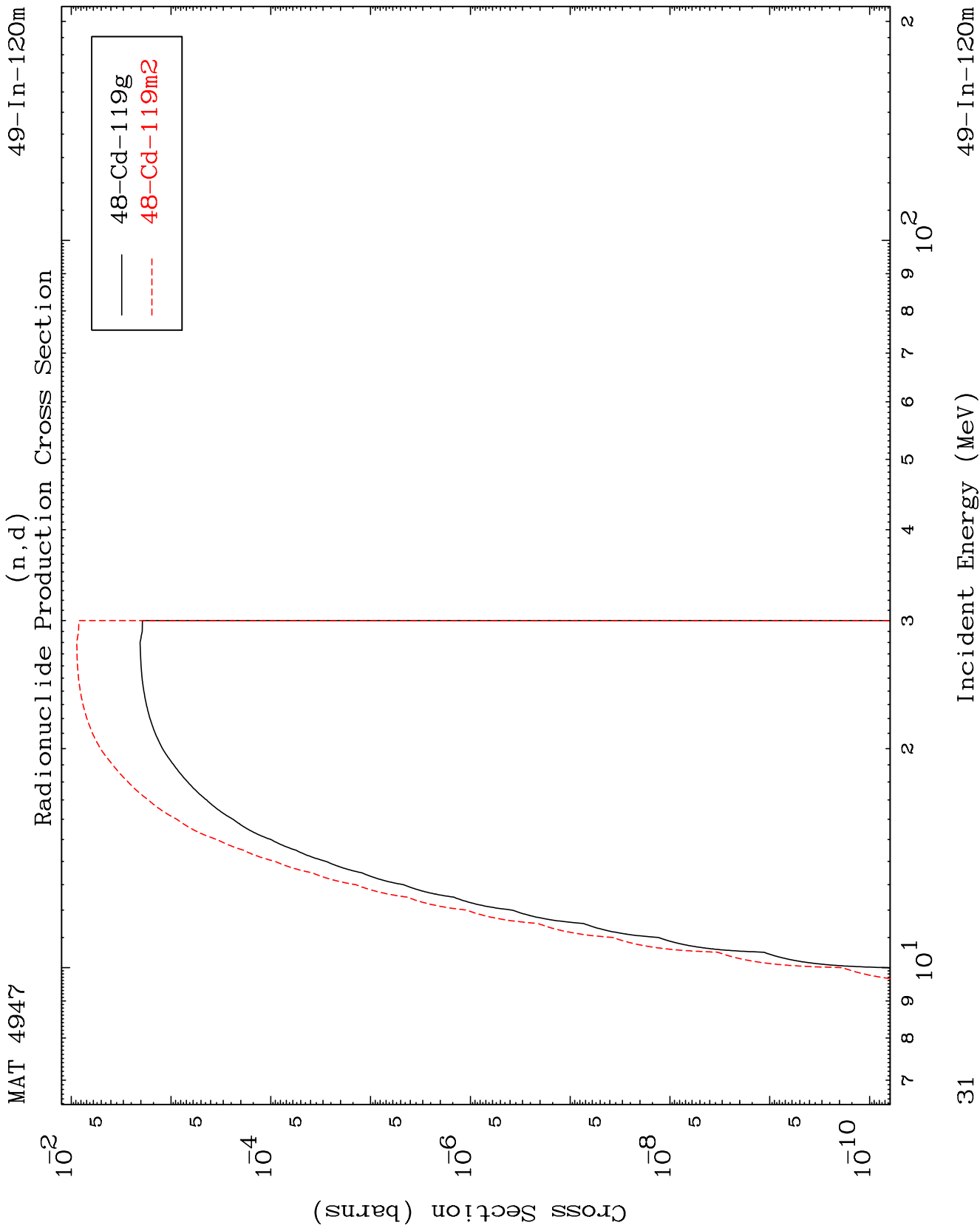


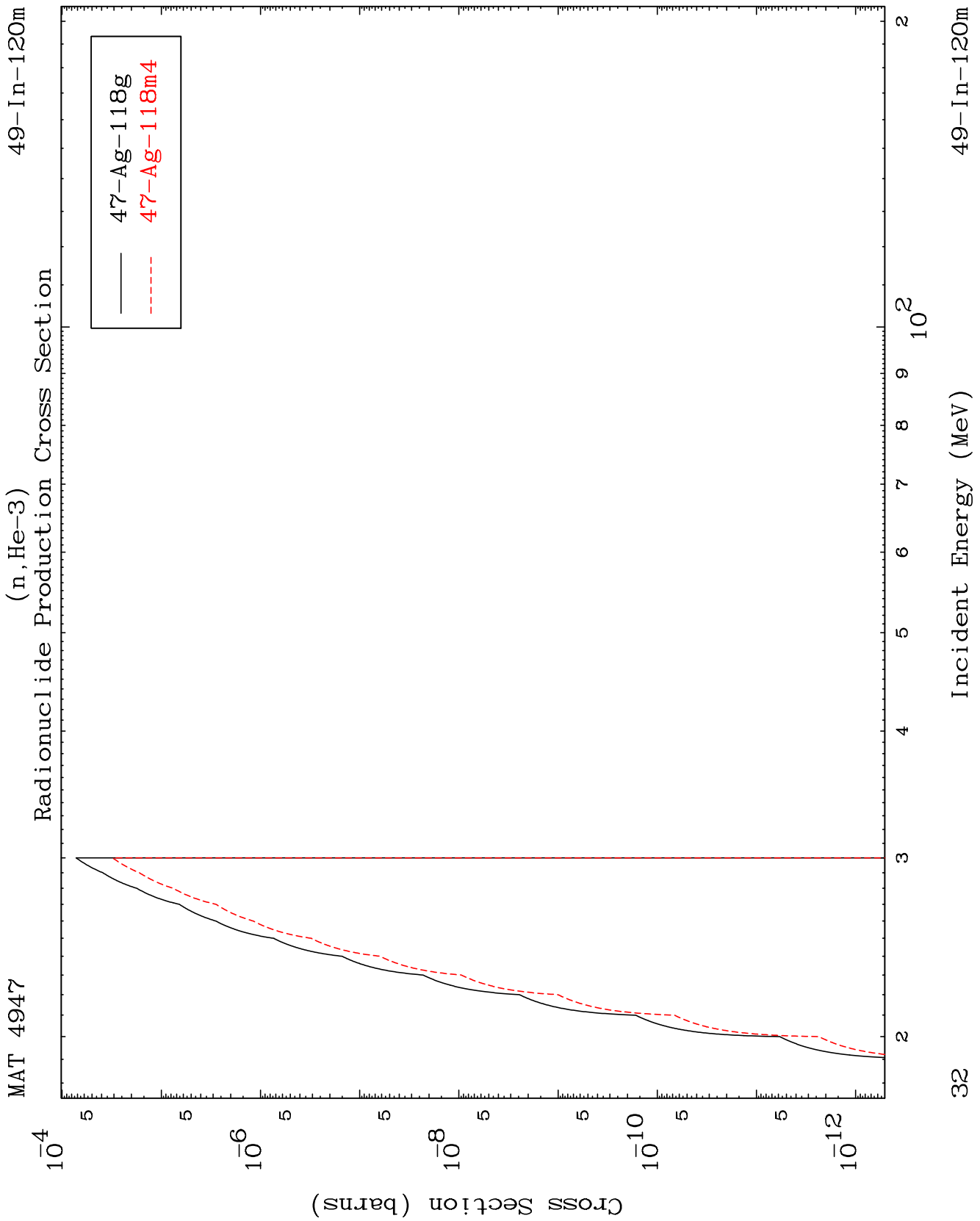
MAT 4947

49-In-120m

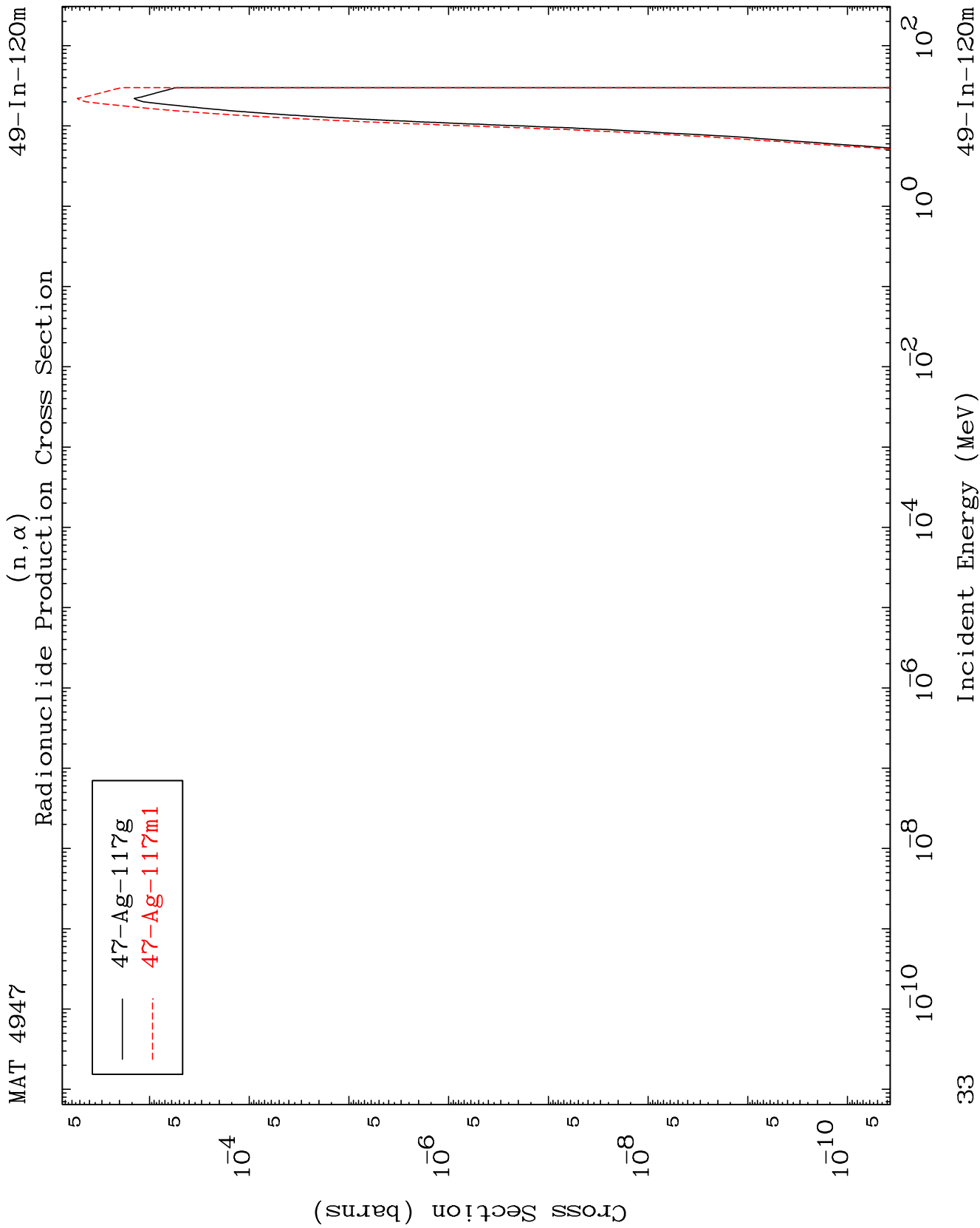
Radionuclide Production Cross Section







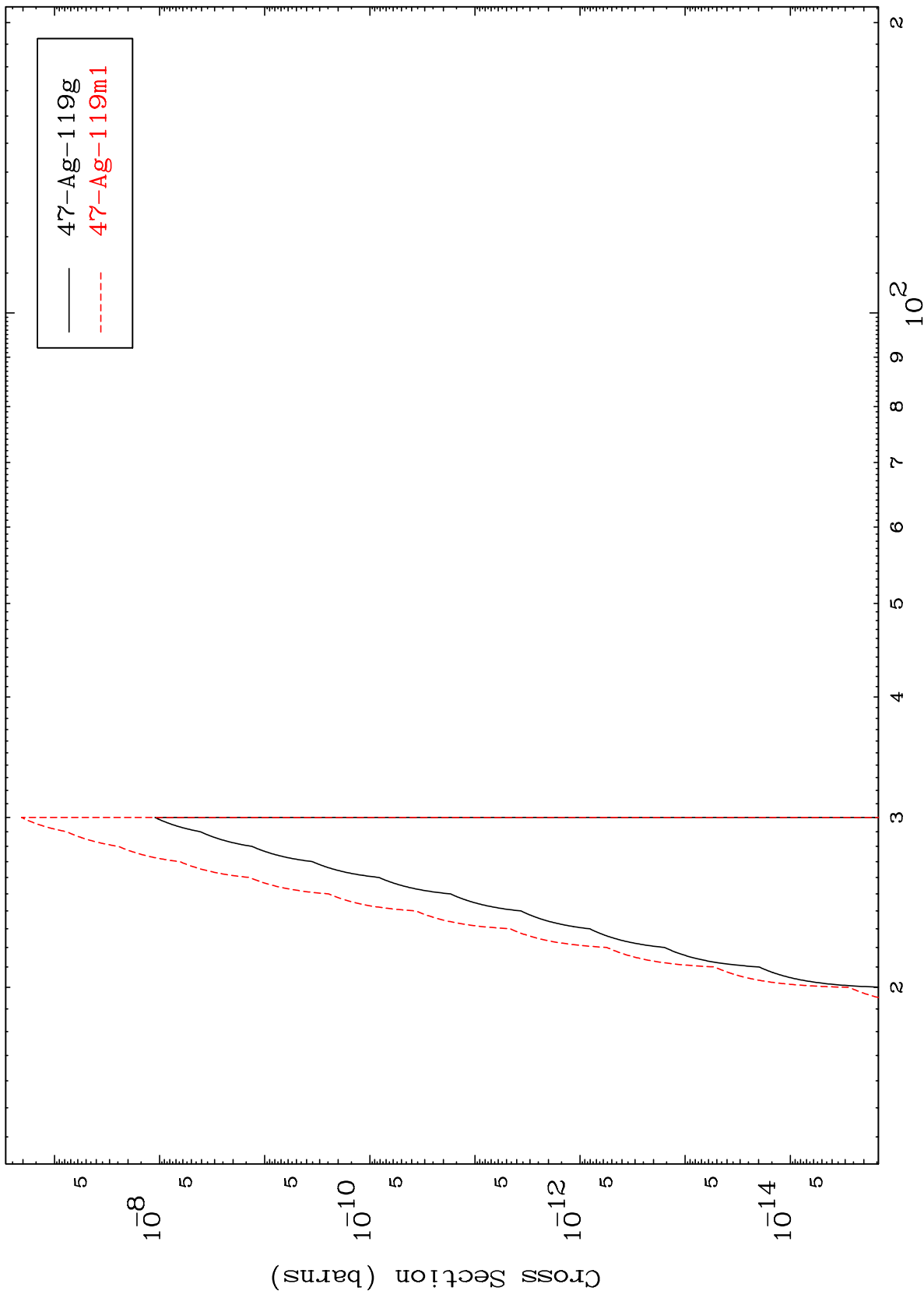
MAT 4947



MAT 4947

49-In-120m

(n,2p)
Radionuclide Production Cross Section



34

49-In-120m

Incident Energy (MeV)