

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

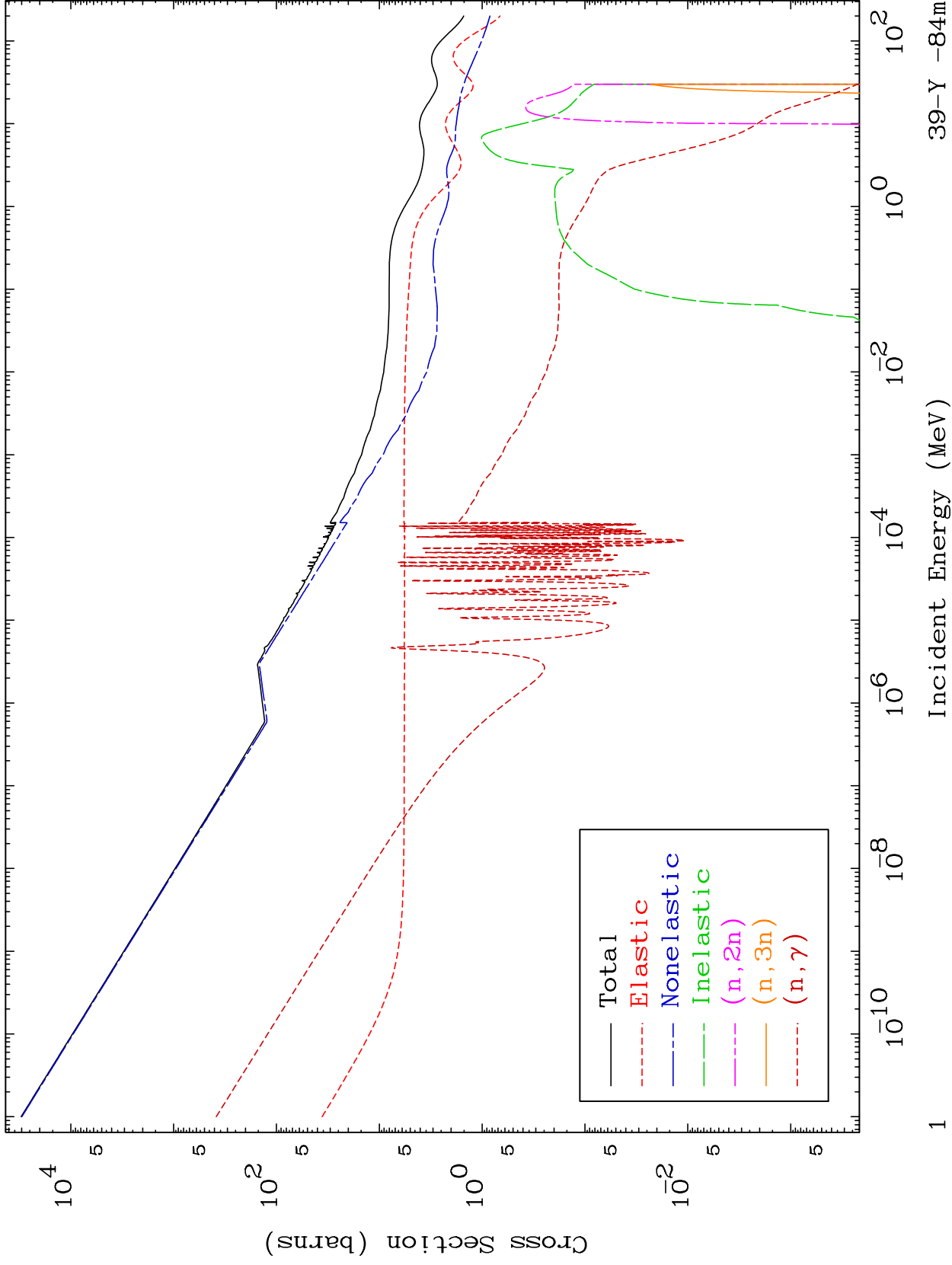
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3911

Neutron Major
293 Kelvin Cross Sections

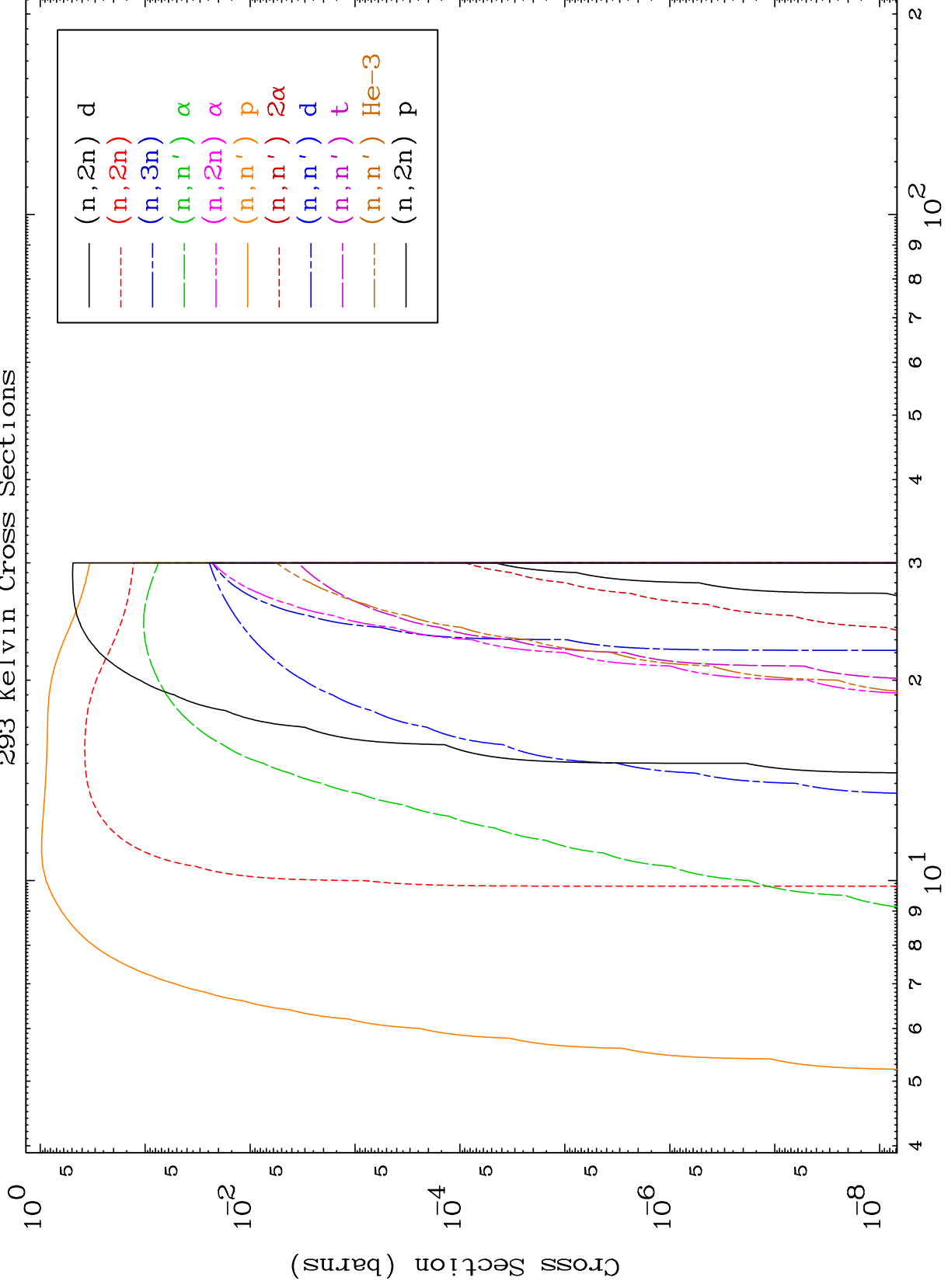
39-Y -84m



MAT 3911

Neutron Absorption
293 Kelvin Cross Sections

39-Y -84m



2

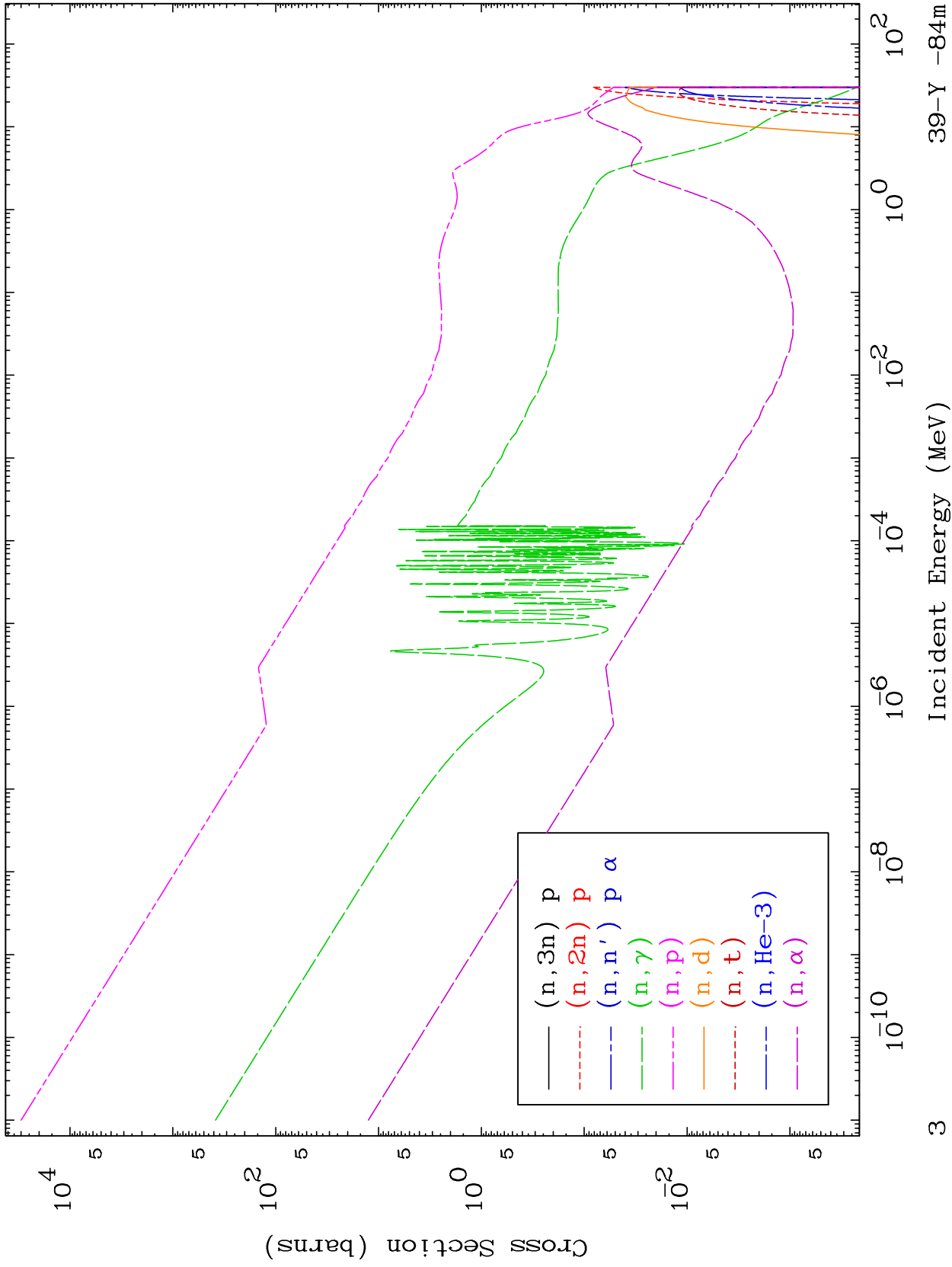
Incident Energy (MeV)

39-Y -84m

MAT 3911

Neutron Absorption
293 Kelvin Cross Sections

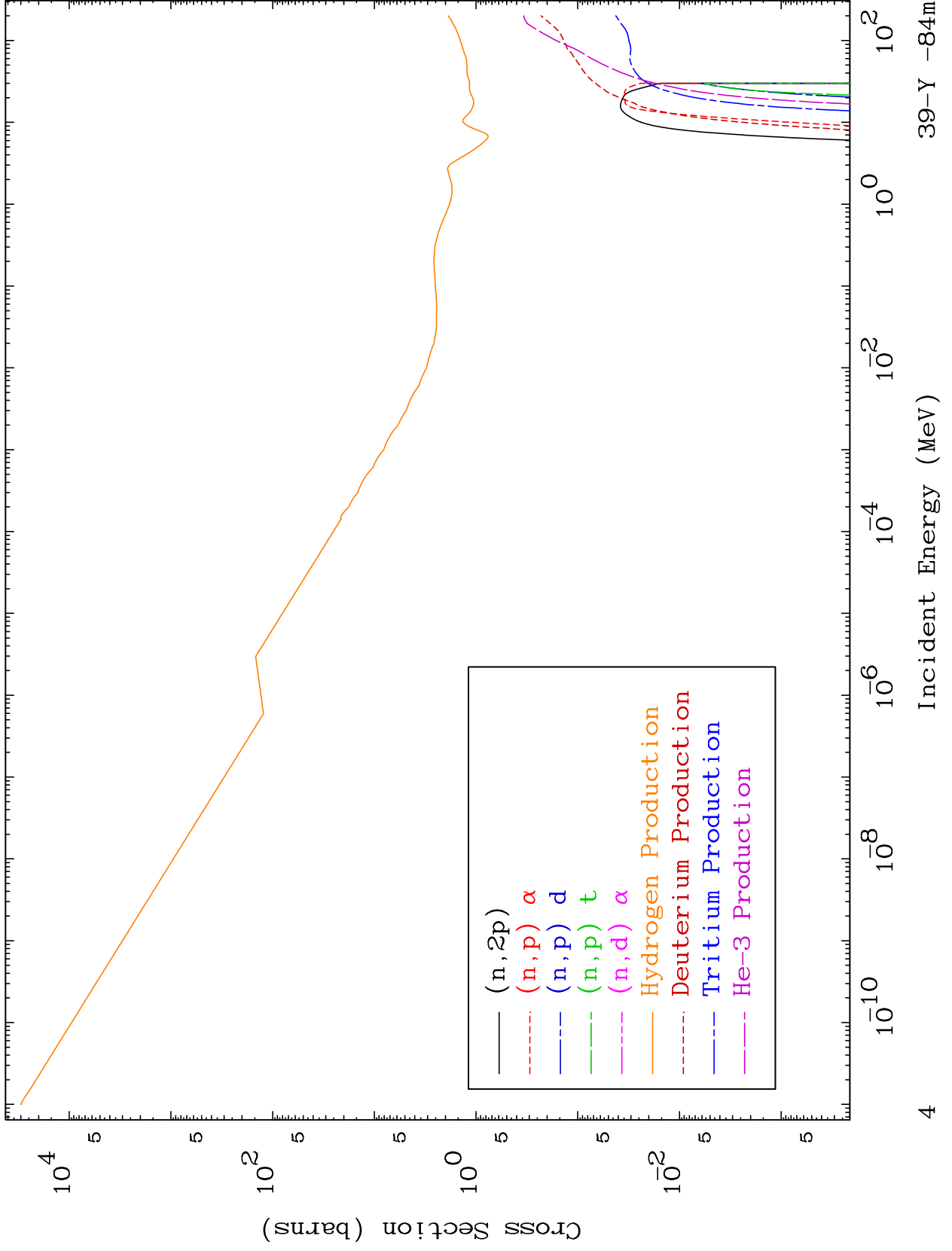
39-Y -84m



MAT 3911

Neutron Absorption
293 Kelvin Cross Sections

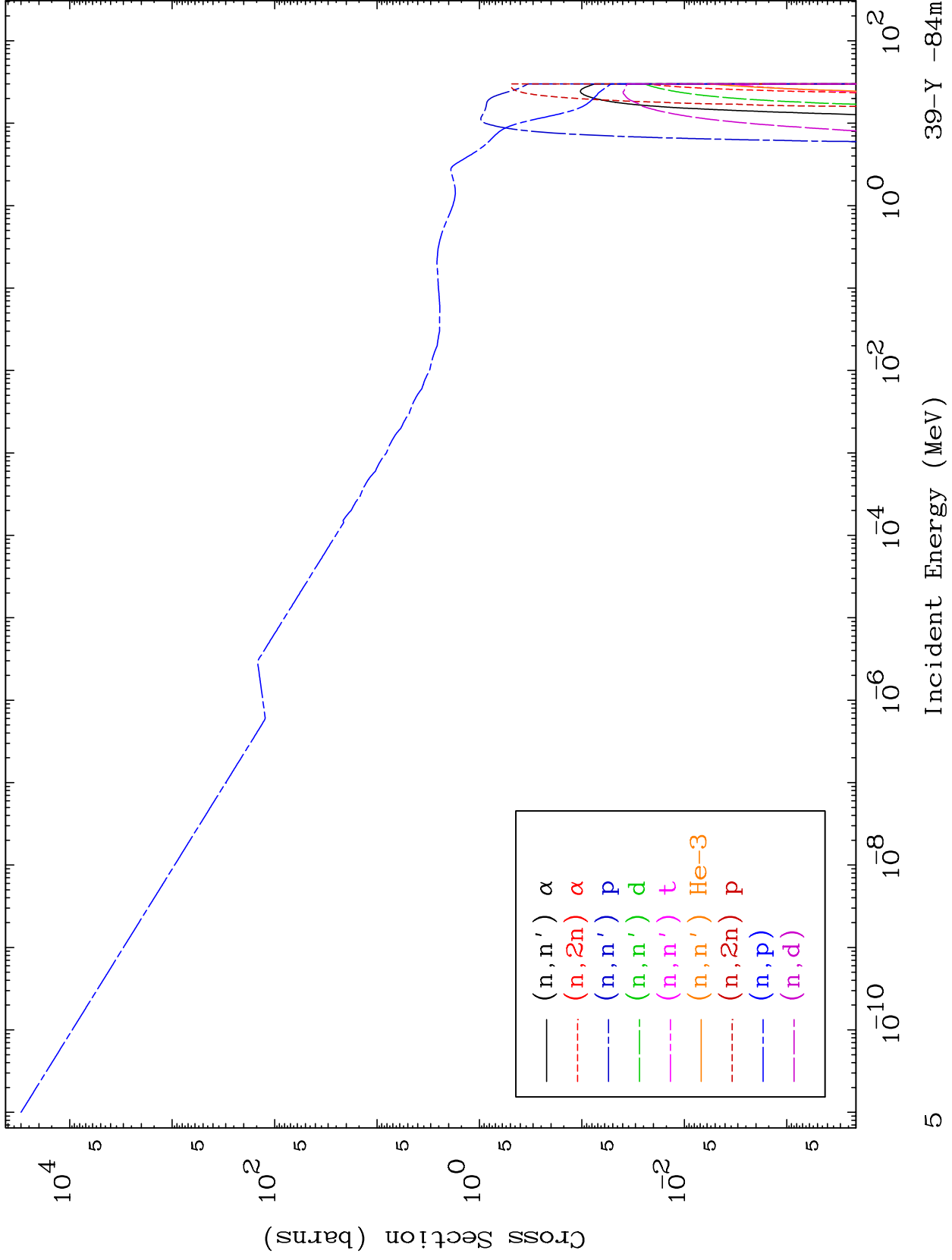
39-Y -84m



MAT 3911

Charged Particle
293 Kelvin Cross Sections

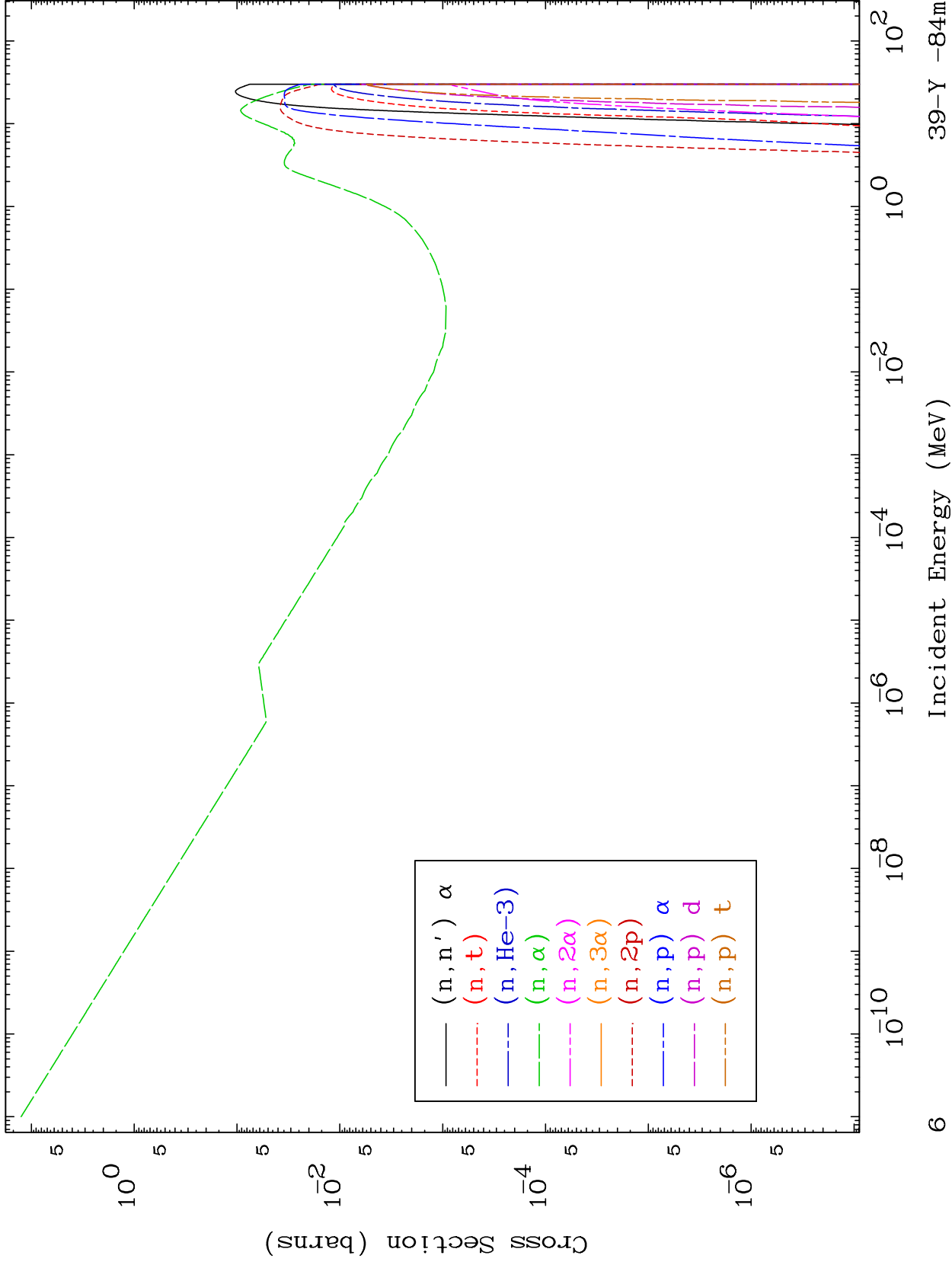
39-Y -84m



MAT 3911

Charged Particle
293 Kelvin Cross Sections

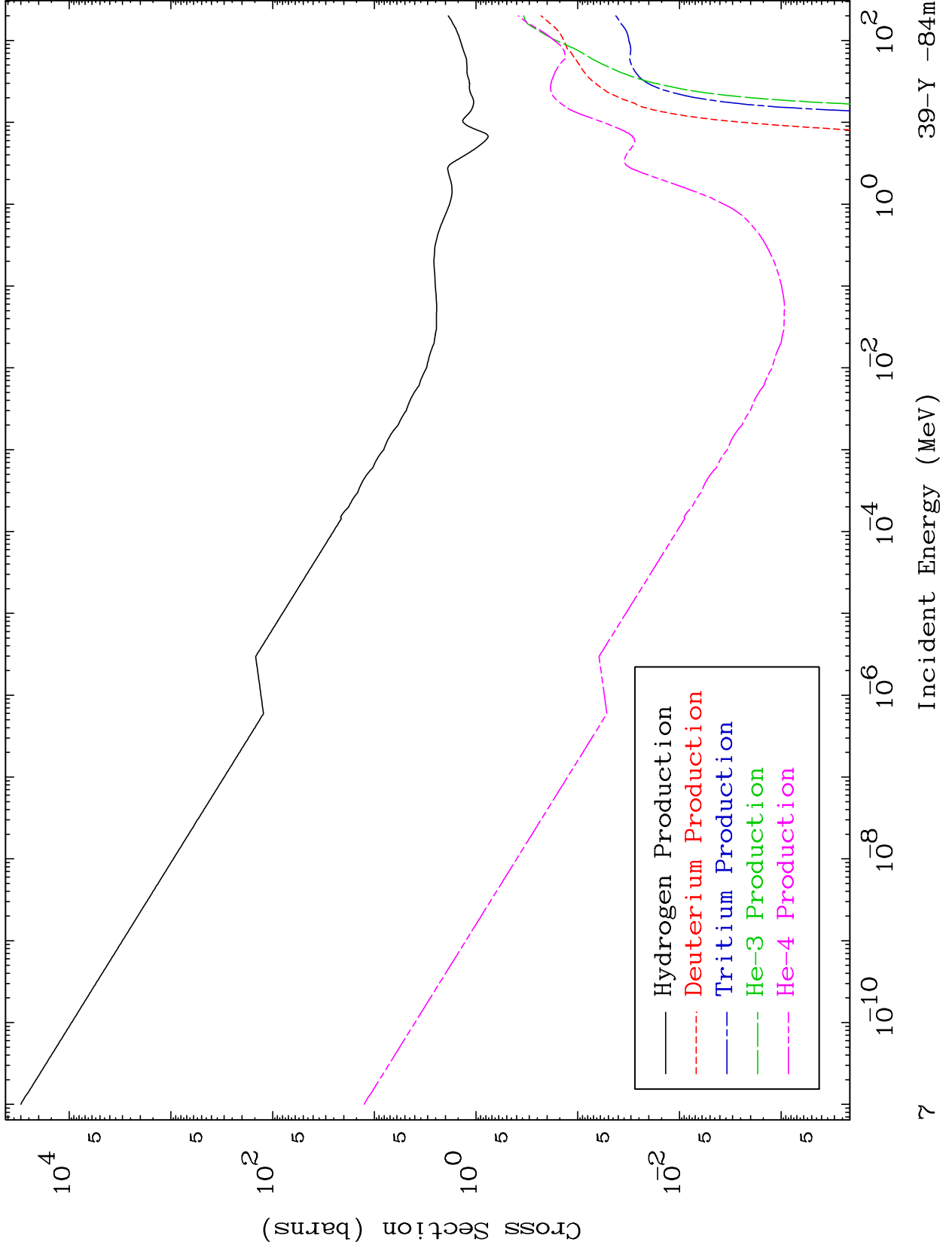
39-Y -84m

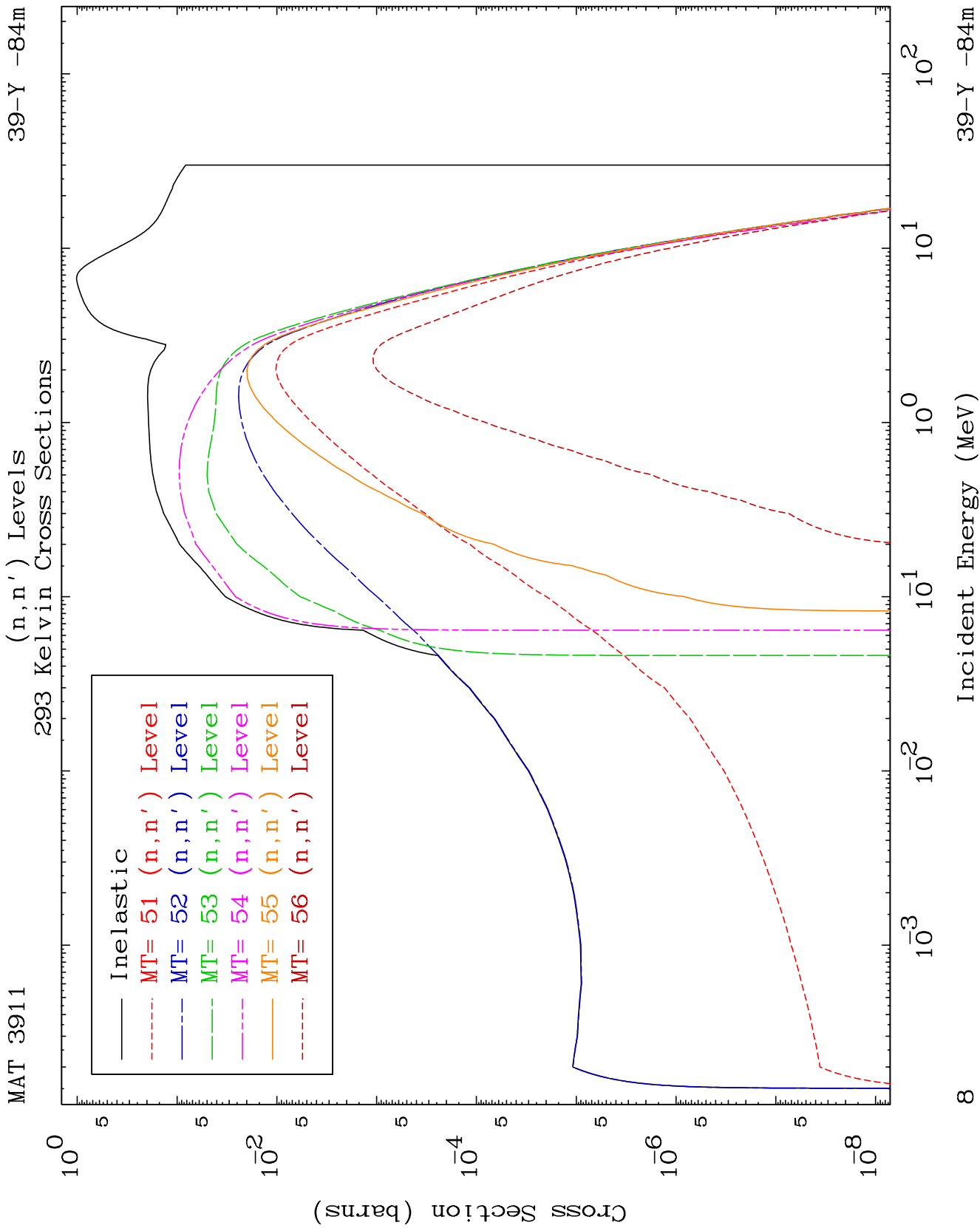


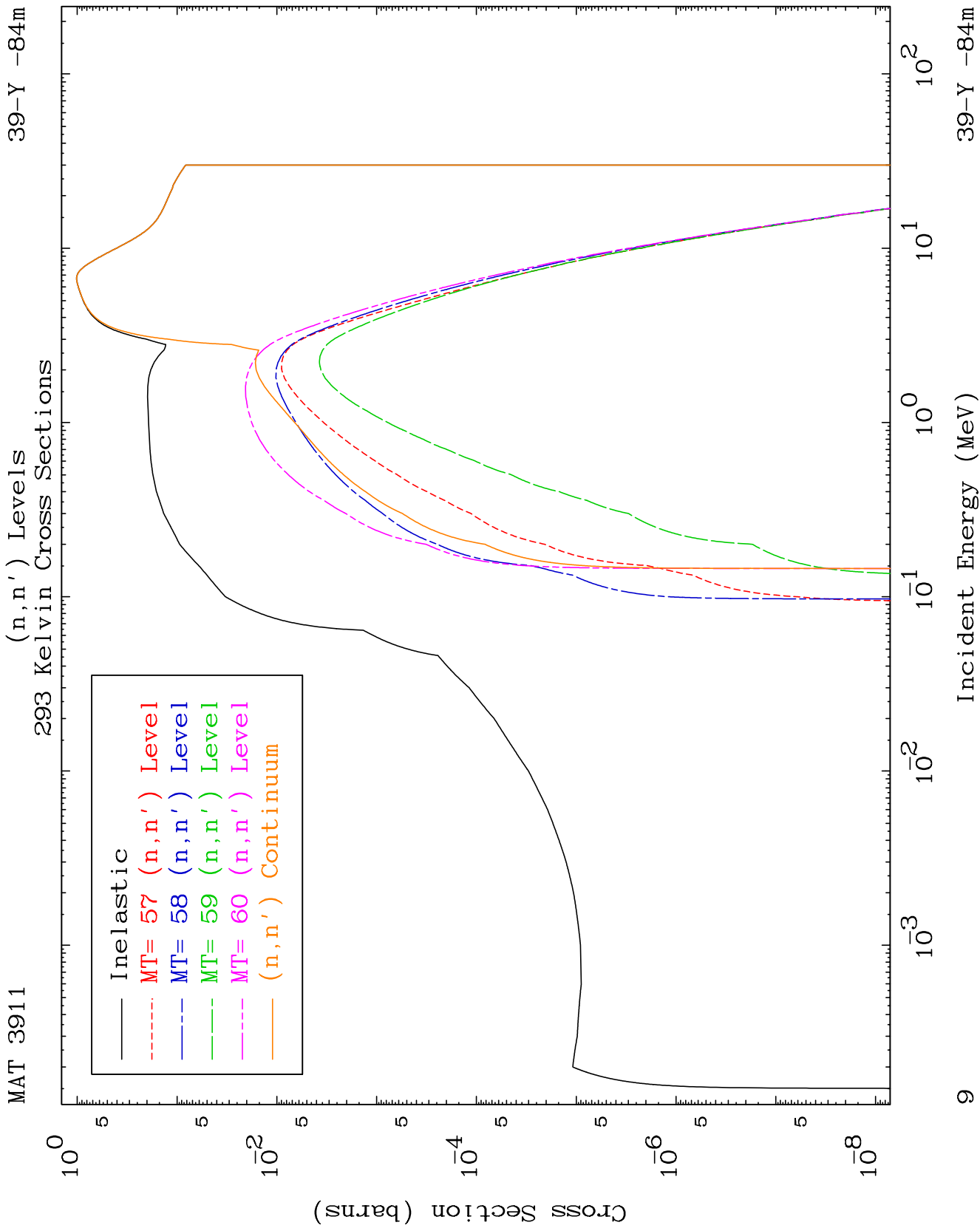
MAT 3911

Particle Production
293 Kelvin Cross Sections

39-Y -84m



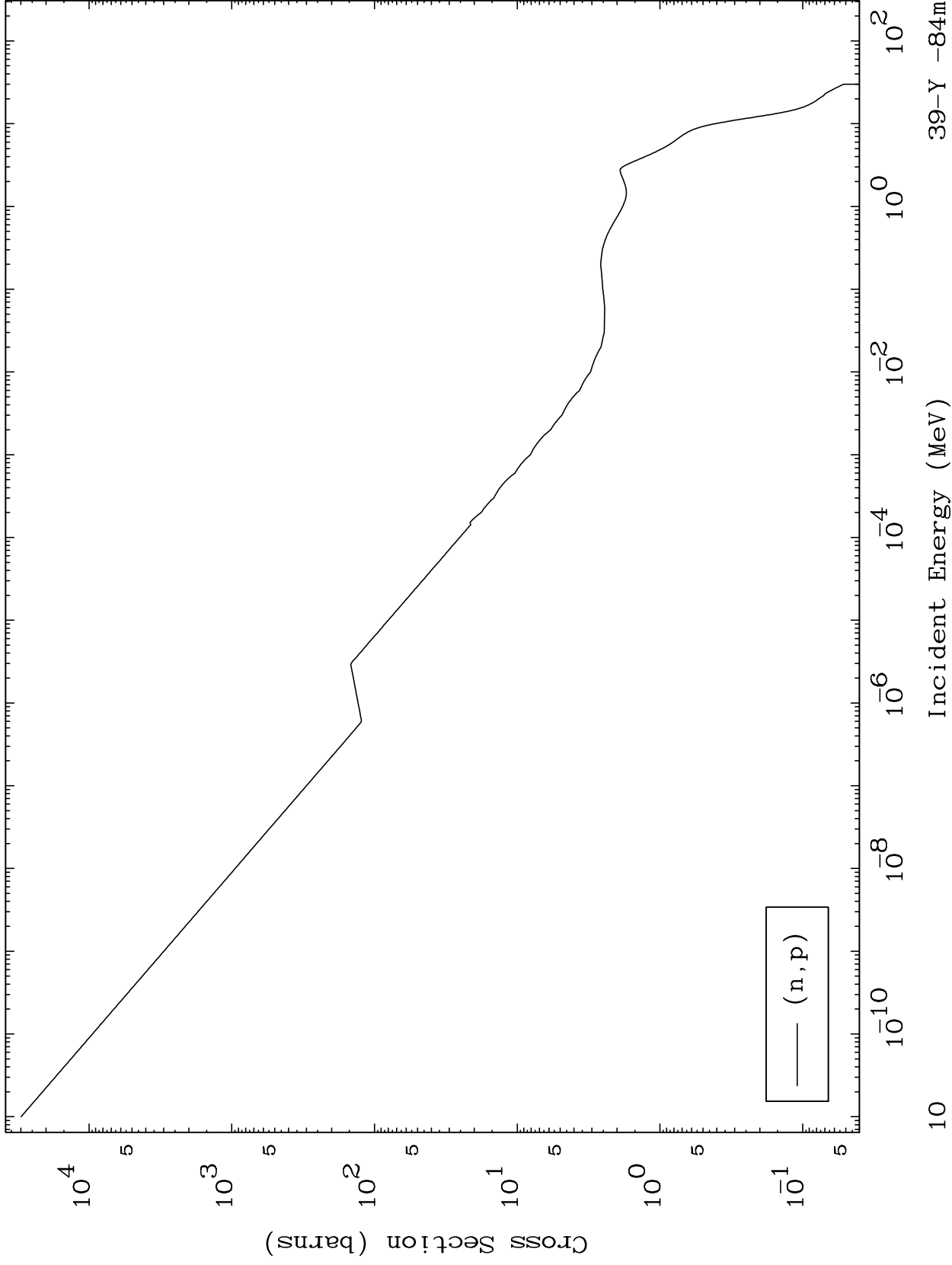




MAT 3911

(n,p) Levels
293 Kelvin Cross Sections

39-Y -84m



— (n,p)

10

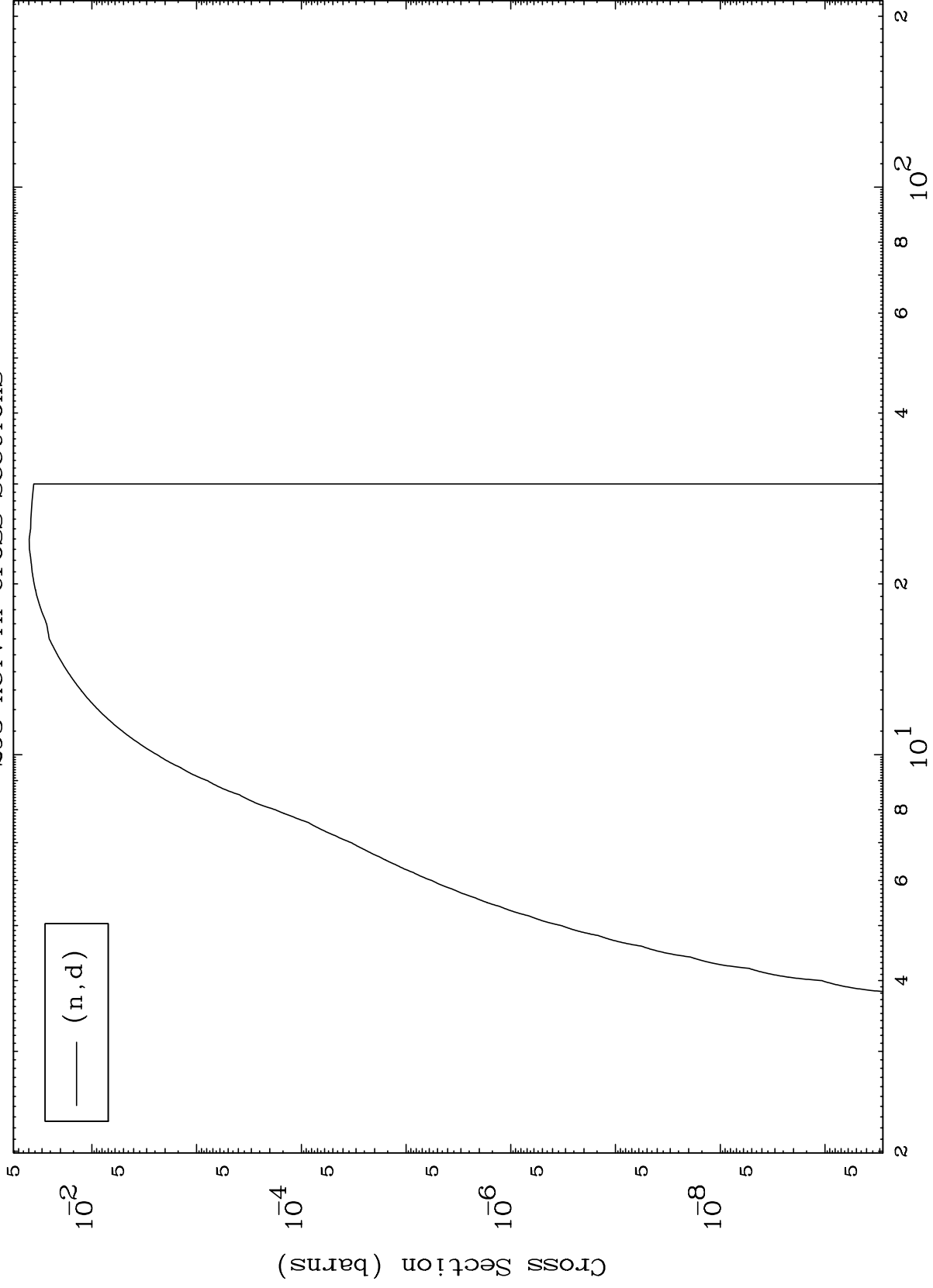
Incident Energy (MeV)

39-Y -84m

MAT 3911

(n,d) Levels
293 Kelvin Cross Sections

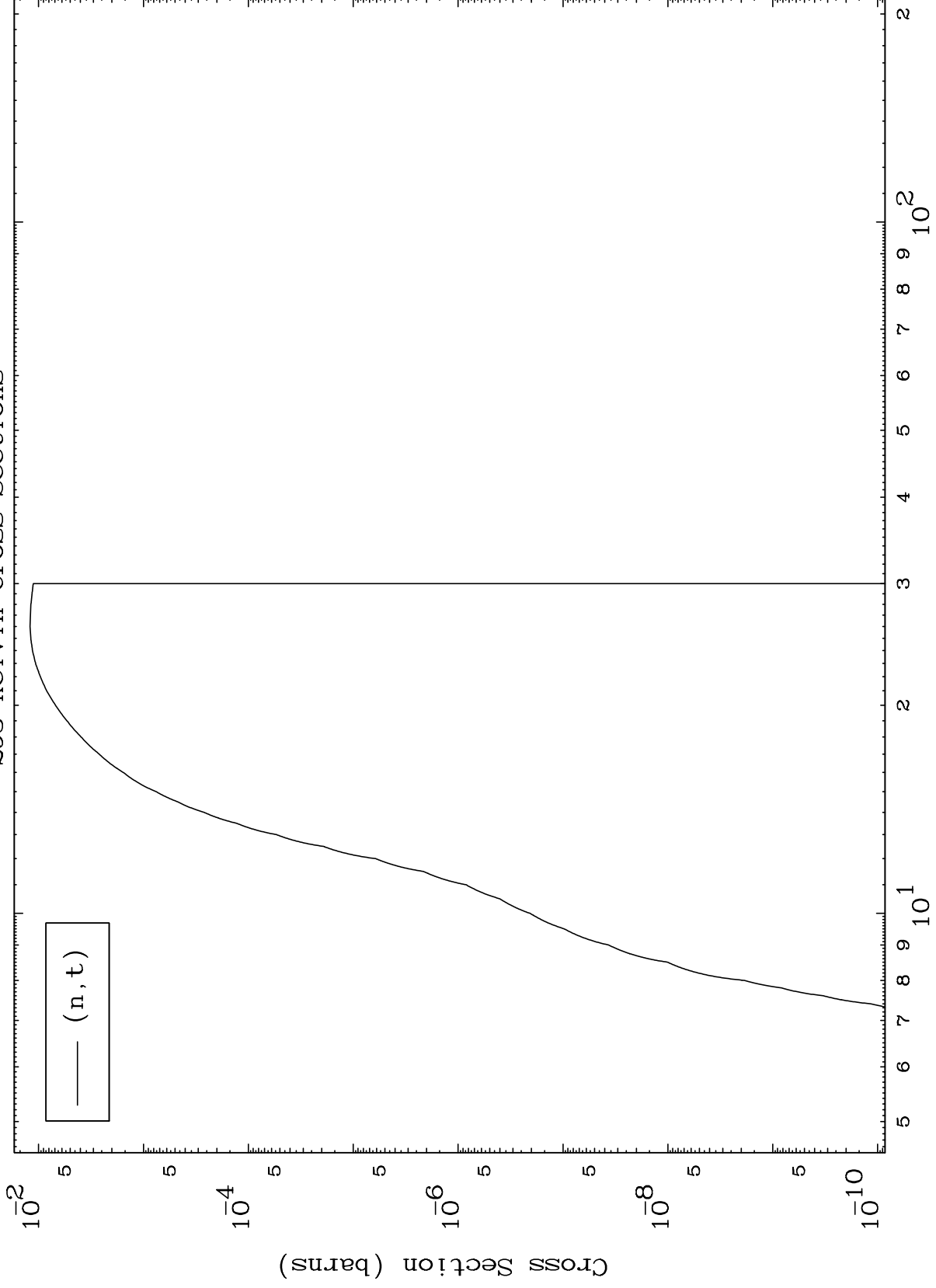
39-Y -84m



MAT 3911

(n,t) Levels
293 Kelvin Cross Sections

39-Y -84m



12

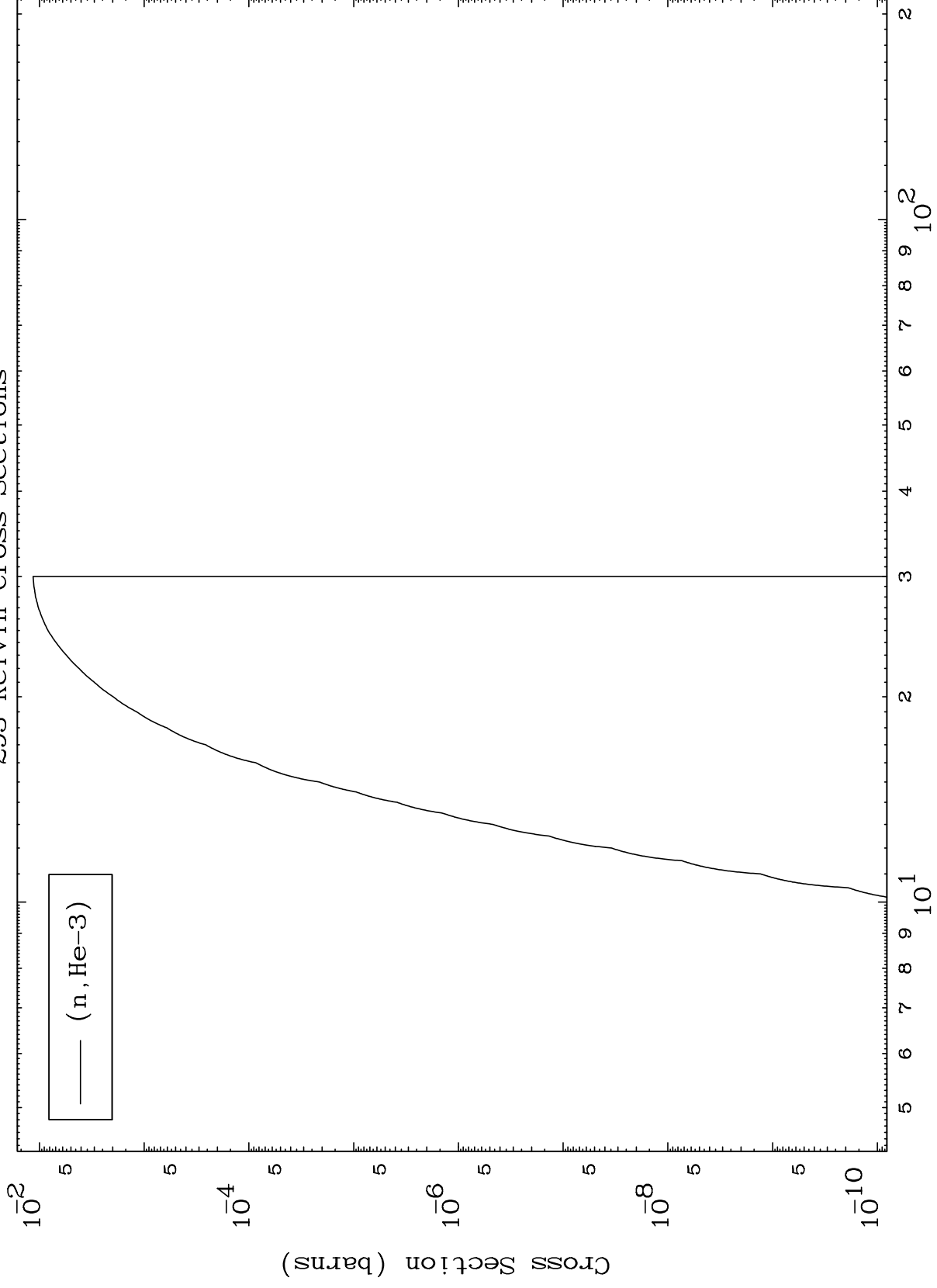
Incident Energy (MeV)

39-Y -84m

MAT 3911

(n,He3) Levels
293 Kelvin Cross Sections

39-Y -84m



13

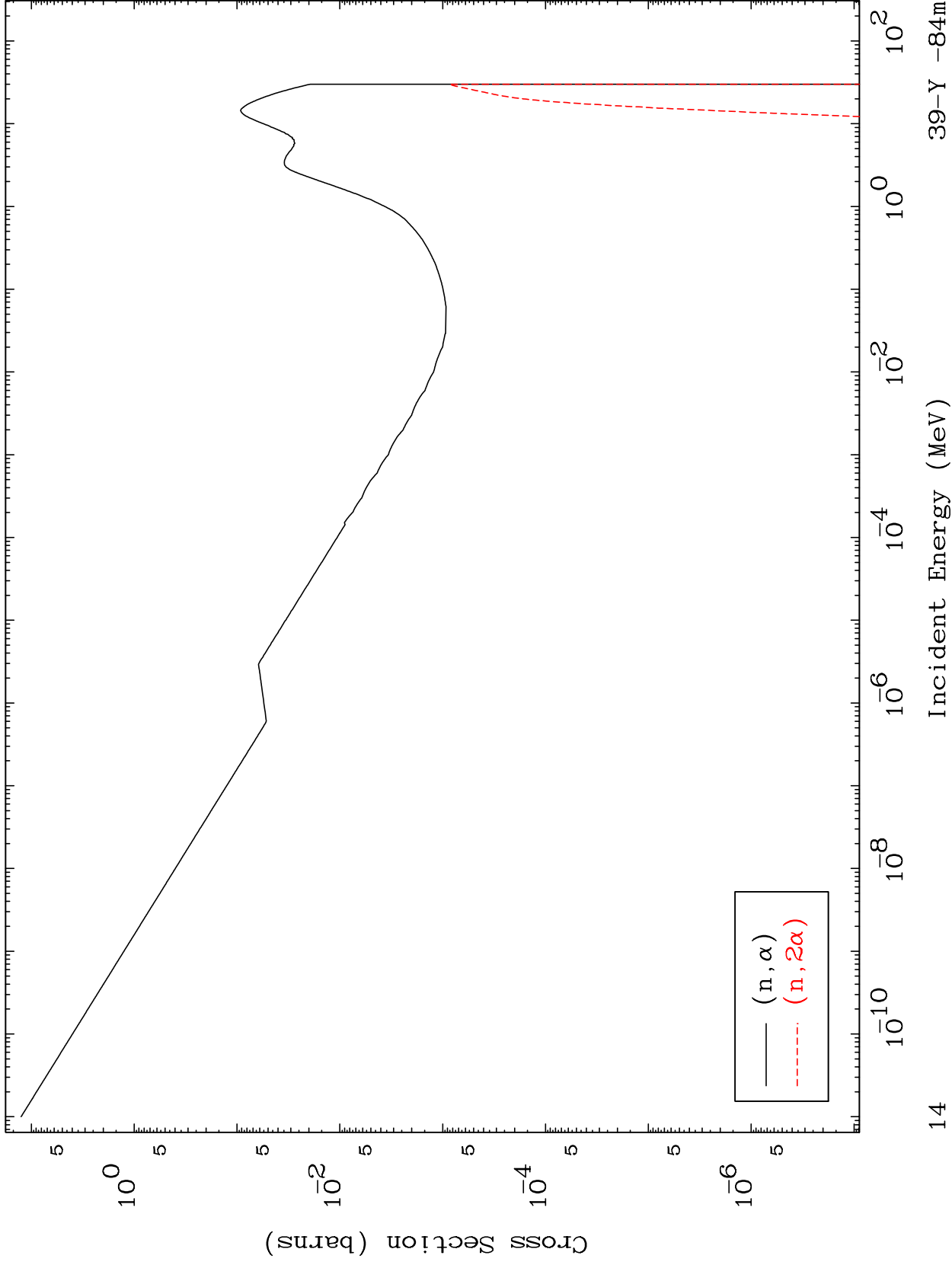
Incident Energy (MeV)

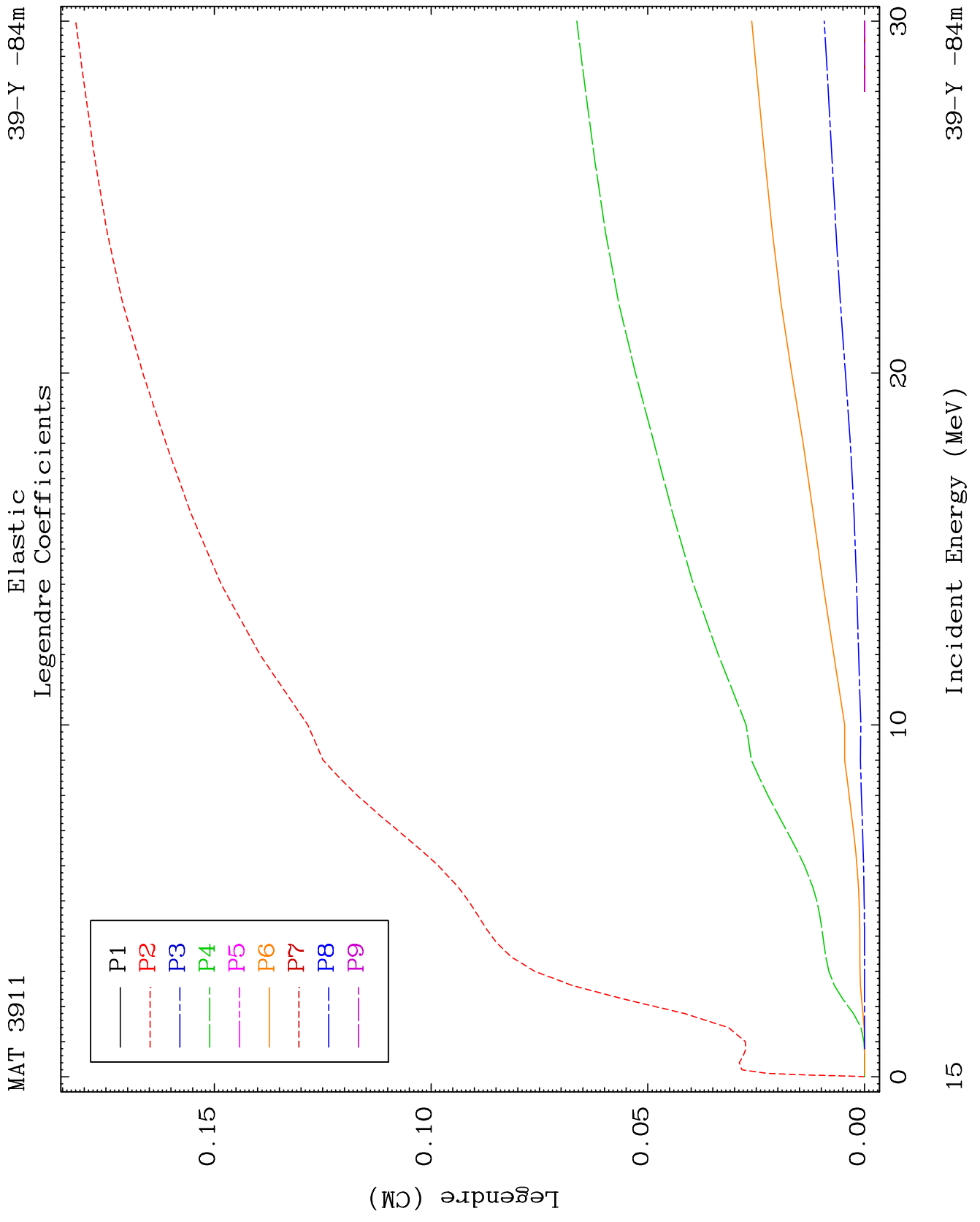
39-Y -84m

MAT 3911

(n,α) Levels
293 Kelvin Cross Sections

39-Y -84m





MAT 3911

Elastic Legendre Coefficients

39-Y-84m

39-Y-84m

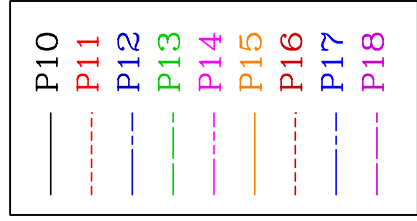
Incident Energy (MeV)

15

MAT 3911

Elastic Legendre Coefficients

39-Y -84m



$\times 10^{-3}$
2.5
2.0
1.5
1.0
0.5
0.0

Legendre (CM)

5

10

15

20

25

30

16

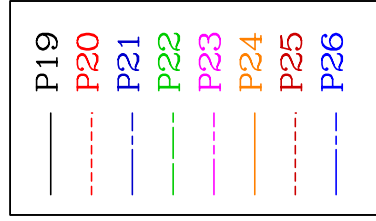
Incident Energy (MeV)

39-Y -84m

MAT 3911

Elastic
Legendre Coefficients

39-Y -84m



$\times 10^{-75}$
Legendre (CM)



17

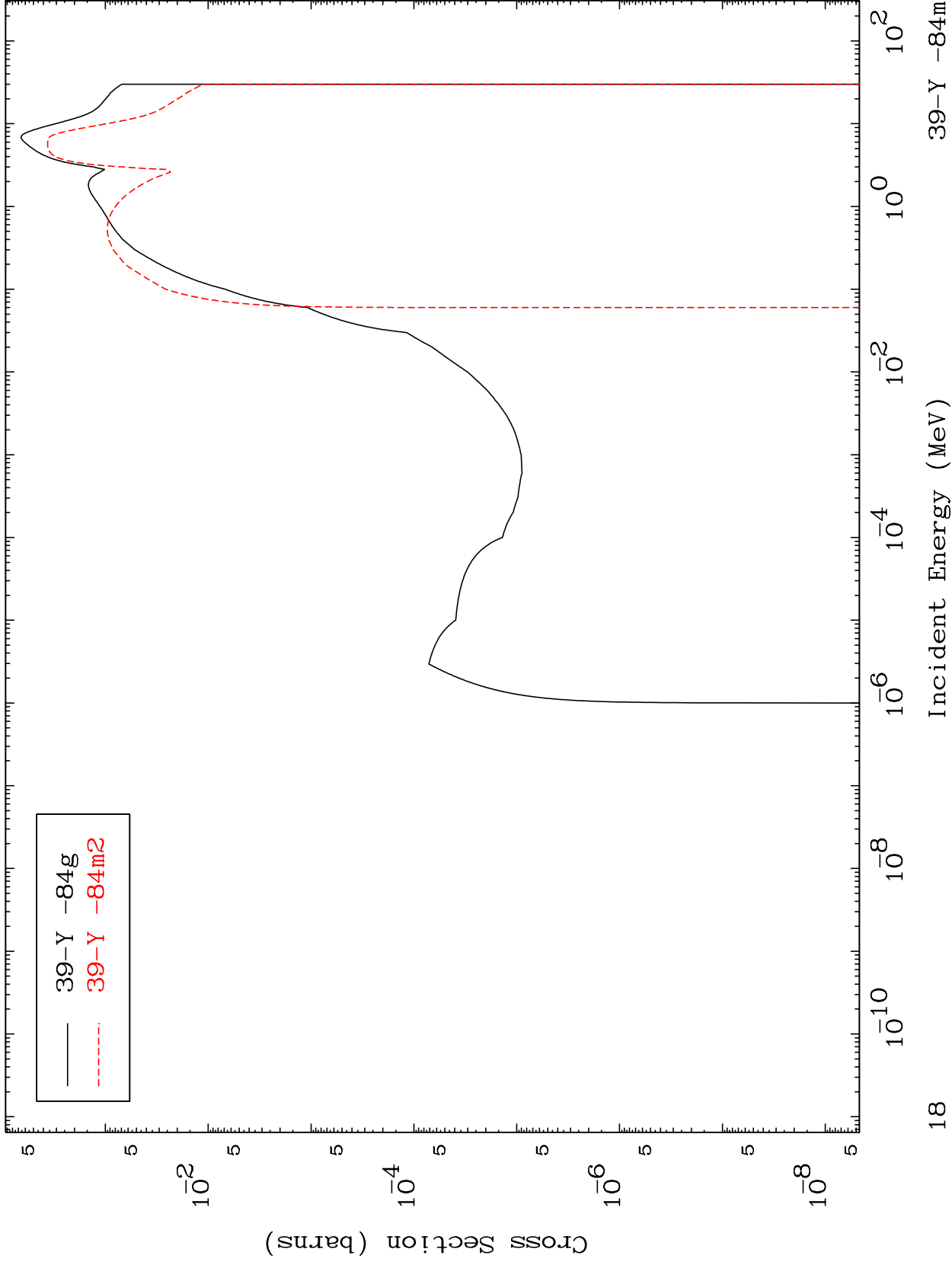
Incident Energy (MeV)

39-Y -84m

MAT 3911

Inelastic
Radionuclide Production Cross Section

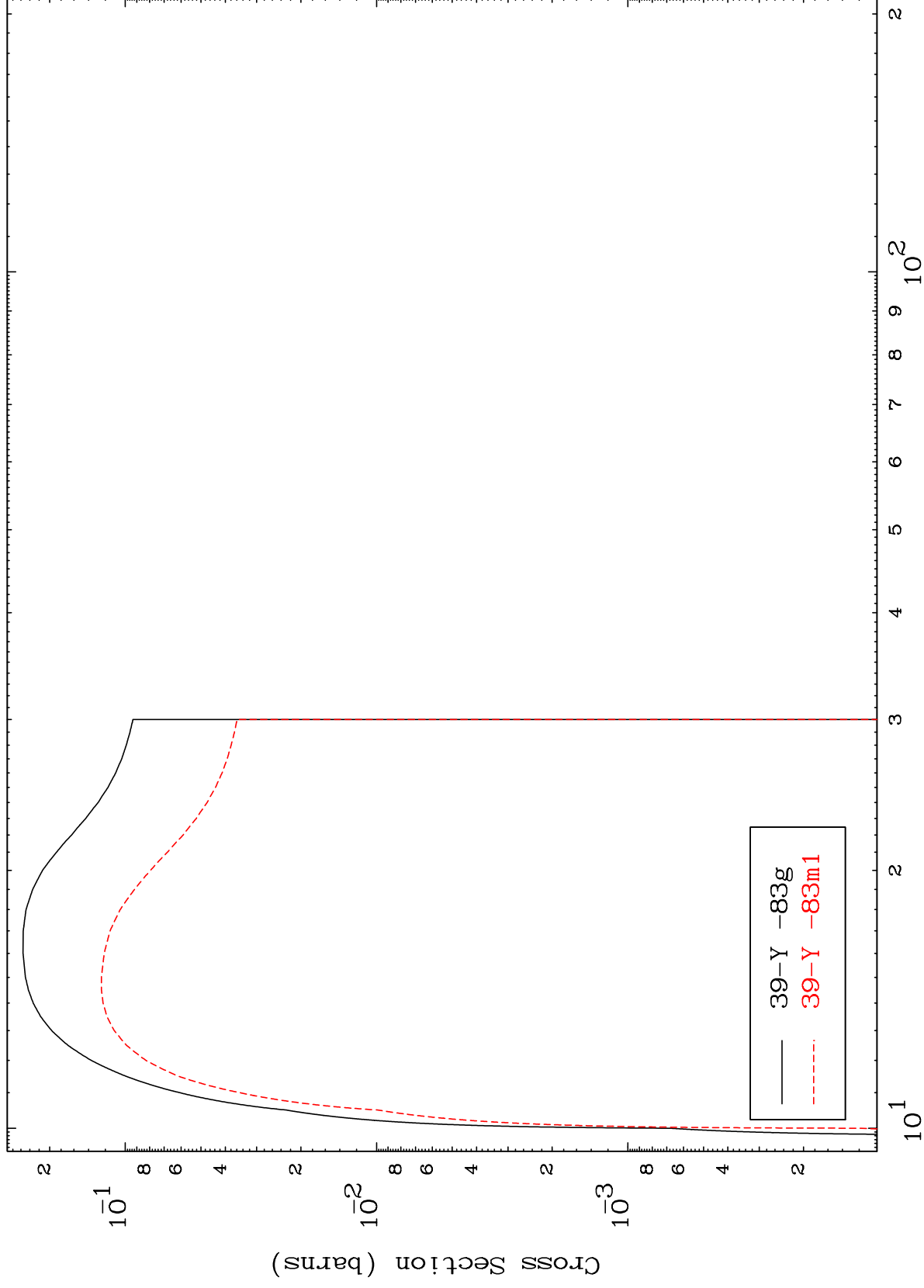
39-Y -84m



MAT 3911

39-Y -84m

Radionuclide Production Cross Section



39-Y -84m

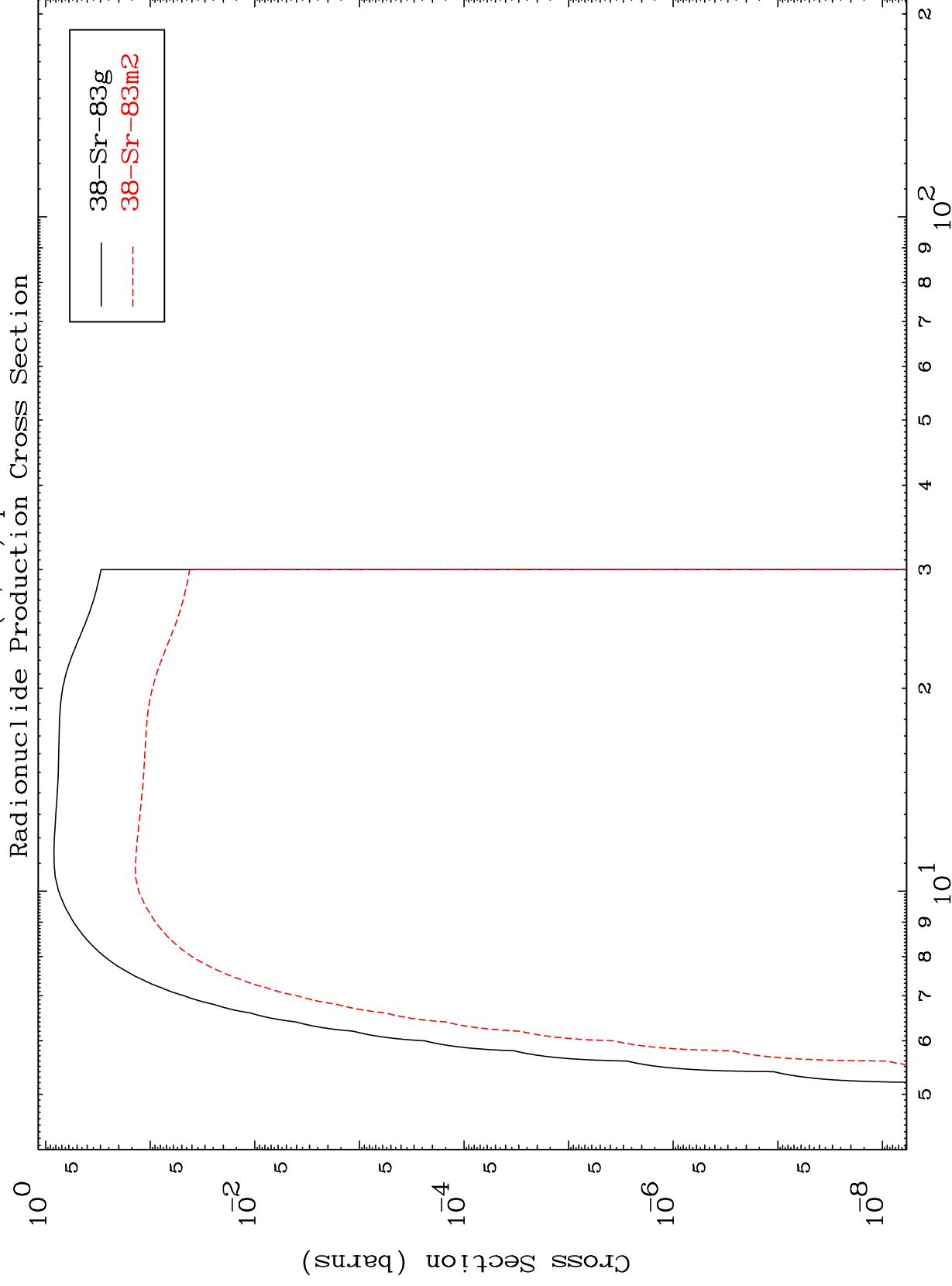
Incident Energy (MeV)

19

MAT 3911

(n,n') p

39-Y -84m



20

Incident Energy (MeV)

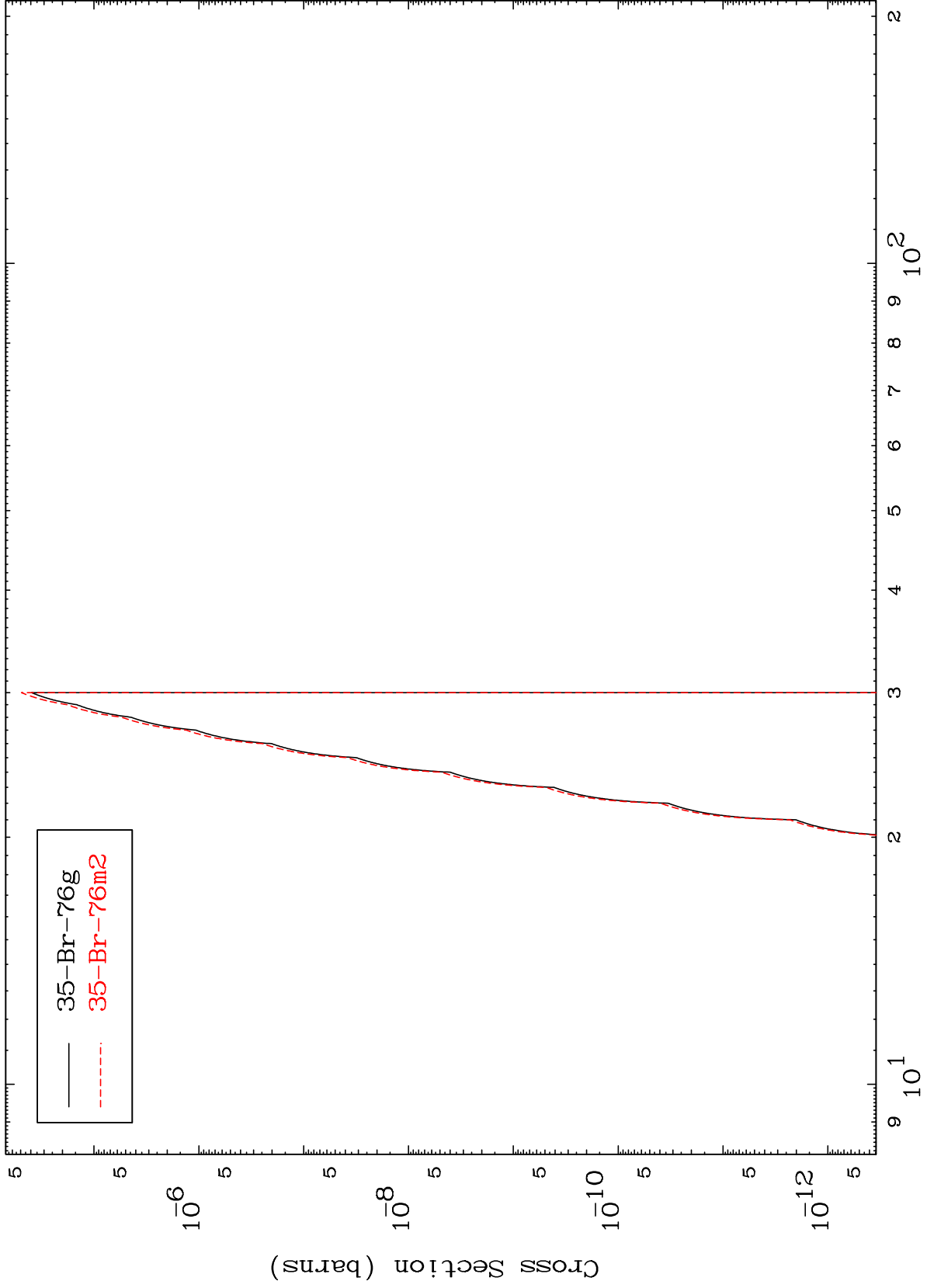
39-Y -84m

MAT 3911

(n,n') 2α

39-Y -84m

Radionuclide Production Cross Section

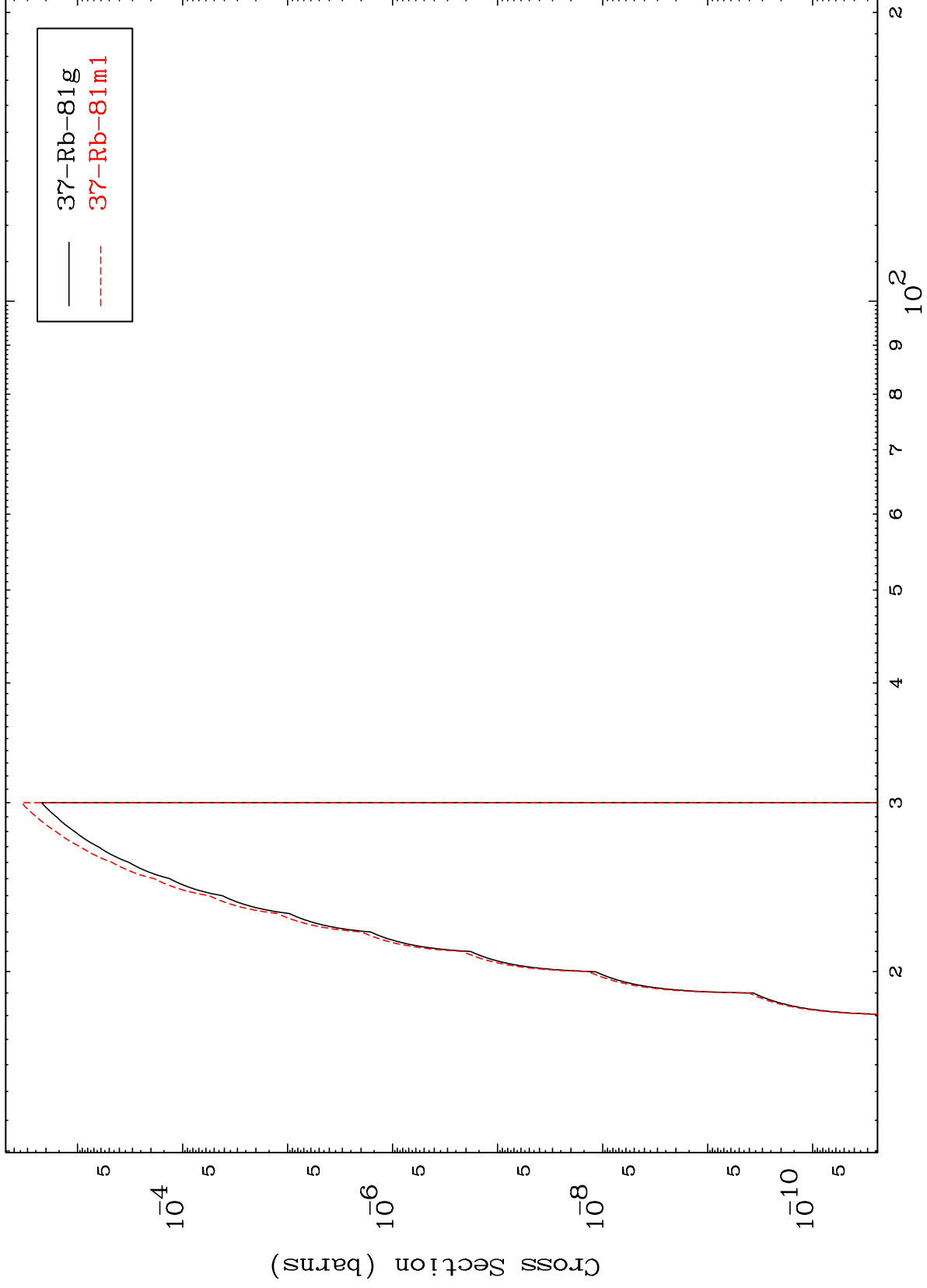


21

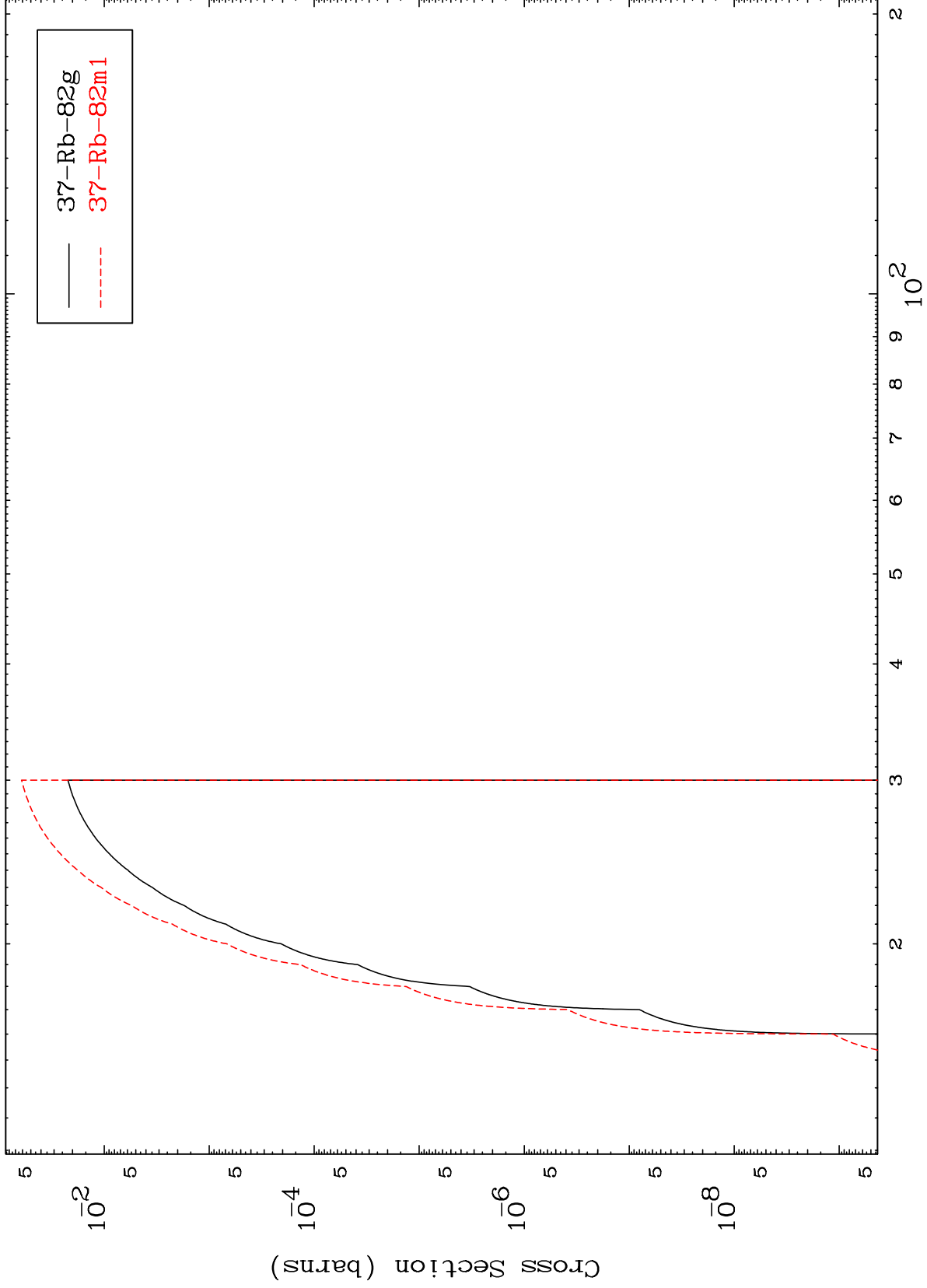
Incident Energy (MeV)

39-Y -84m

Radionuclide Production Cross Section



Radionuclide Production Cross Section

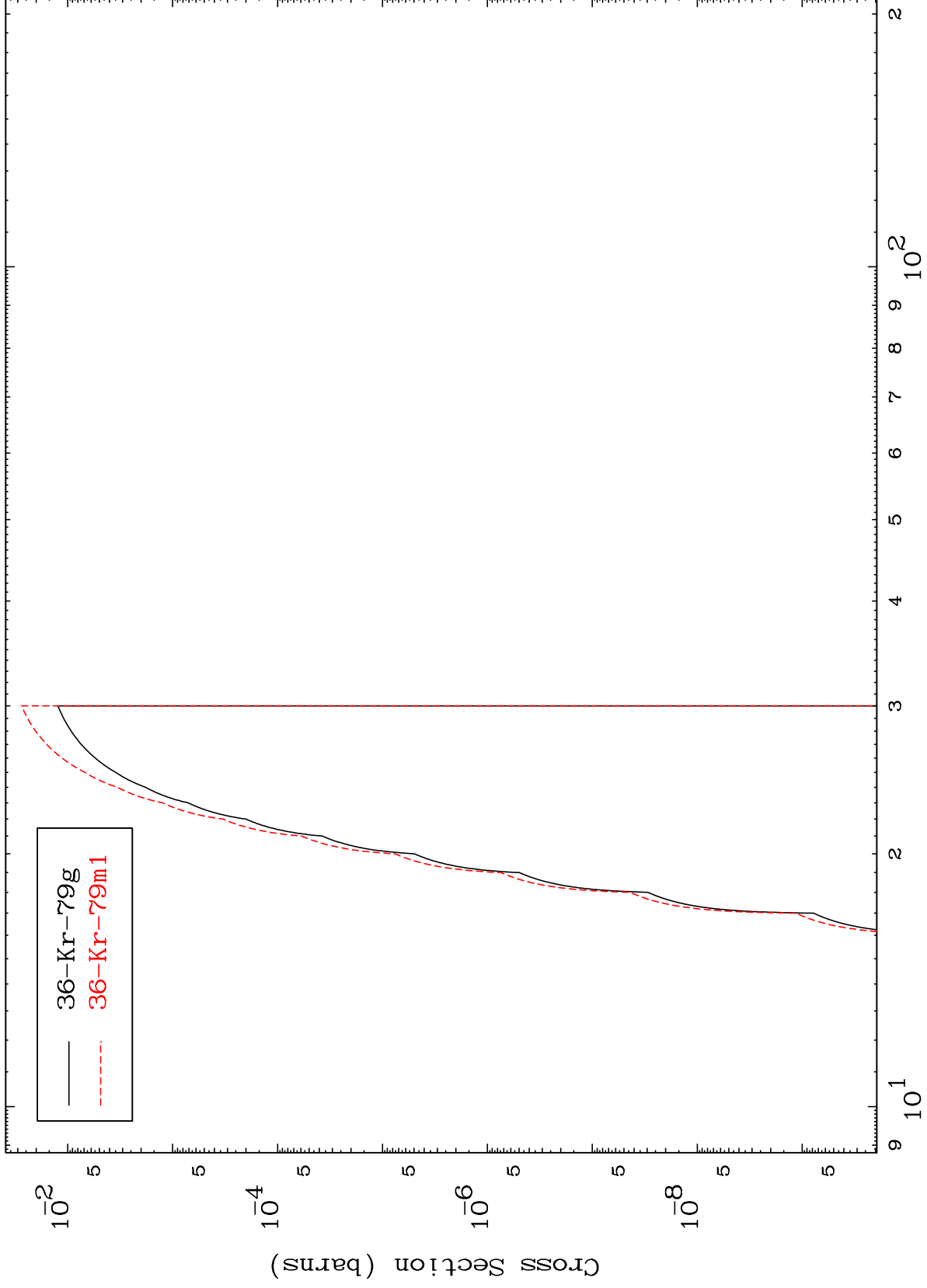


MAT 3911

(n,n') p α

39-Y -84m

Radionuclide Production Cross Section



24

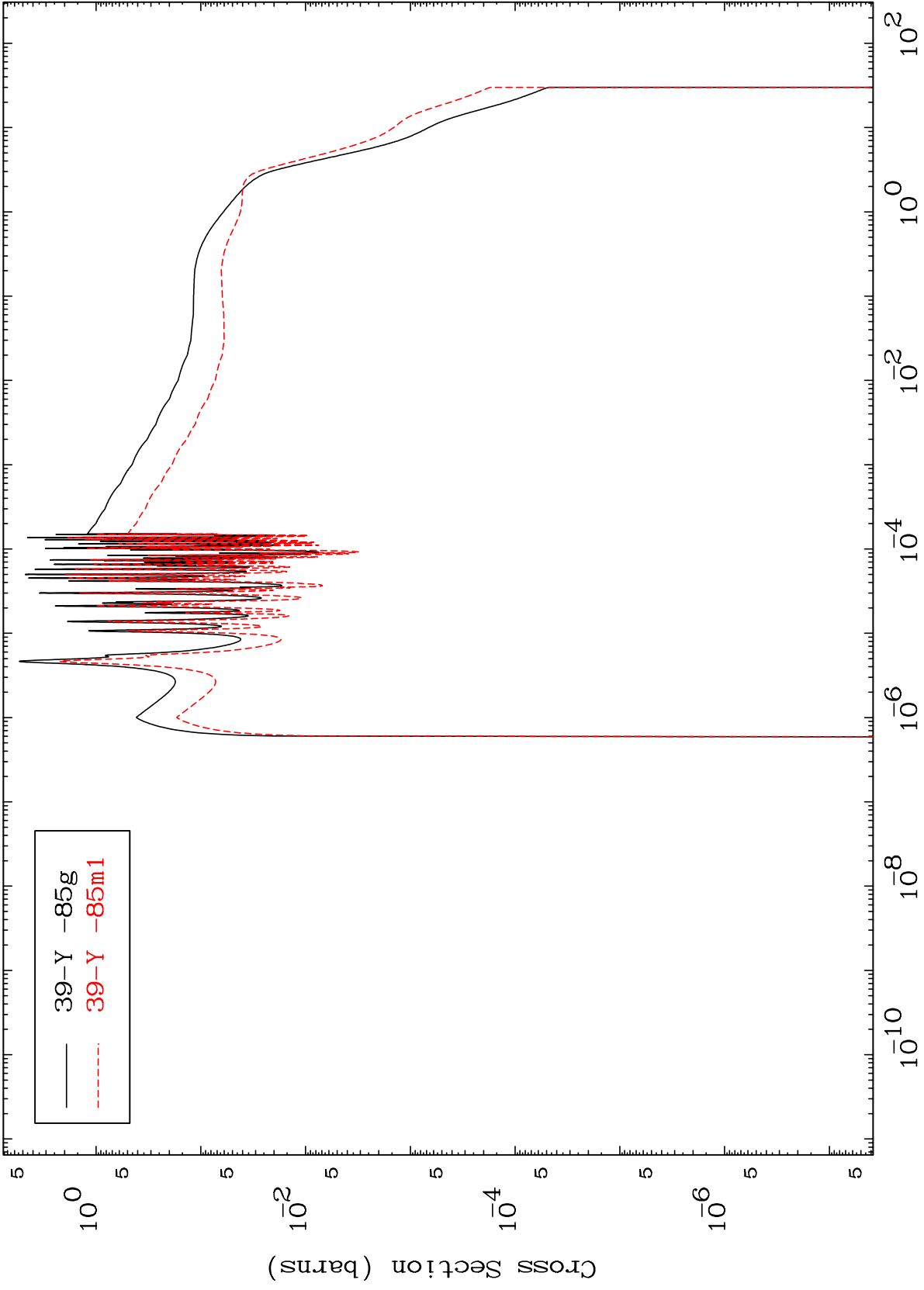
Incident Energy (MeV)

39-Y -84m

MAT 3911

39-Y -84m

(n,γ)
Radionuclide Production Cross Section



25

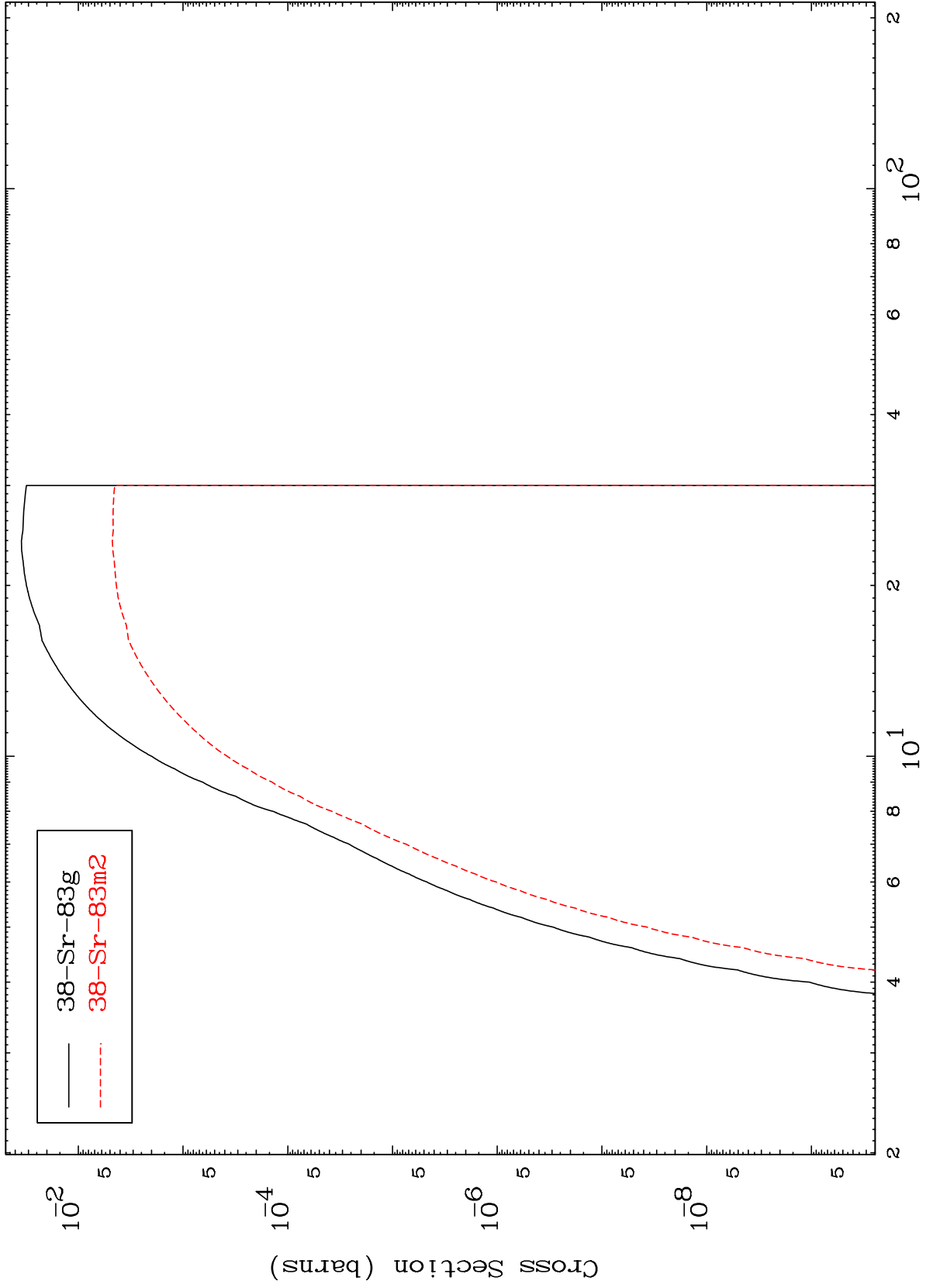
39-Y -84m

Incident Energy (MeV)

MAT 3911

39-Y -84m

(n,d)
Radionuclide Production Cross Section



26

39-Y -84m

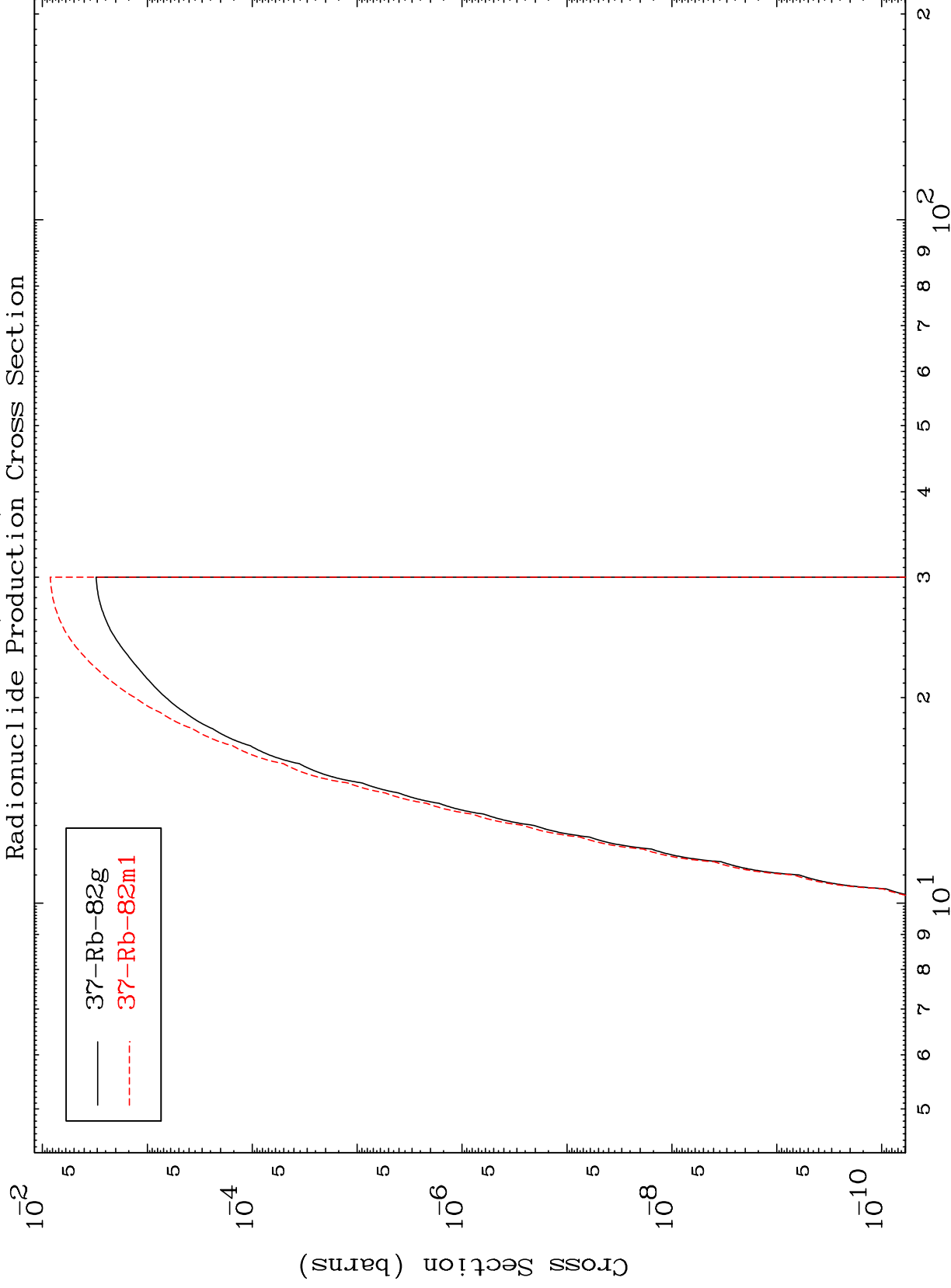
Incident Energy (MeV)

MAT 3911

(n,He-3)

39-Y -84m

Radionuclide Production Cross Section



27

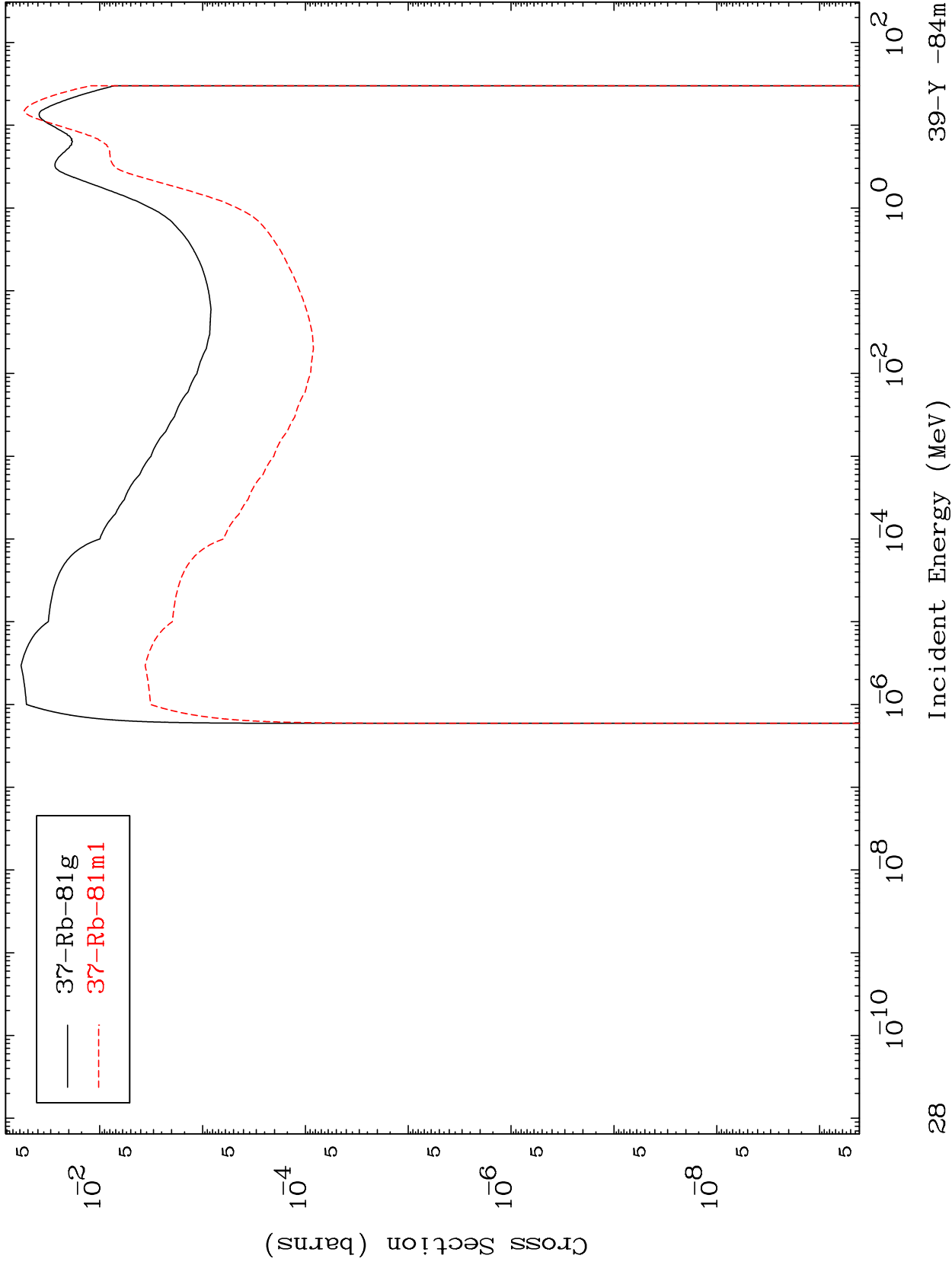
Incident Energy (MeV)

39-Y -84m

MAT 3911

39-Y -84m

Radionuclide Production Cross Section

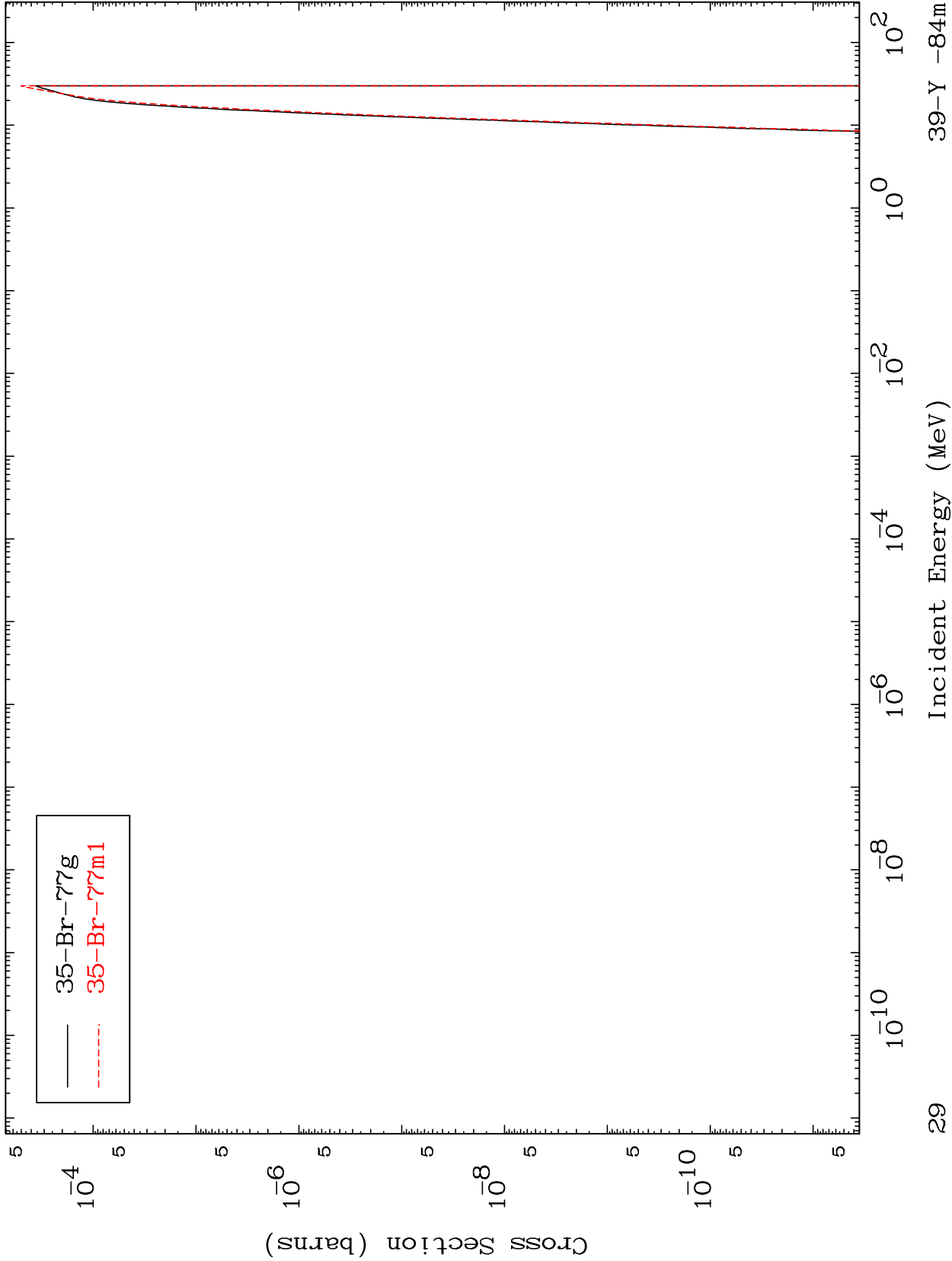


MAT 3911

(n,2α)

39-Y -84m

Radionuclide Production Cross Section

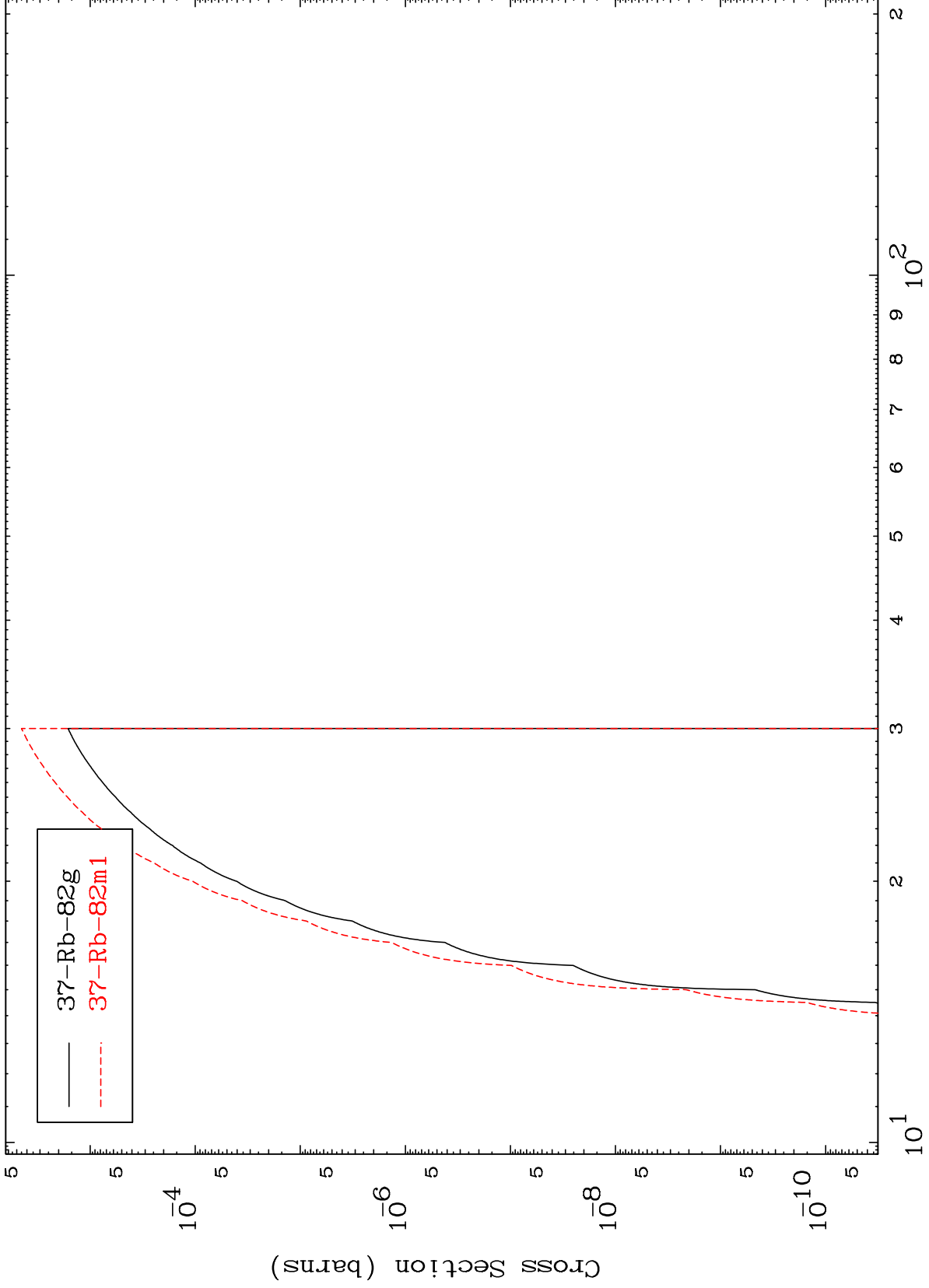


MAT 3911

(n,p) d

39-Y -84m

Radionuclide Production Cross Section

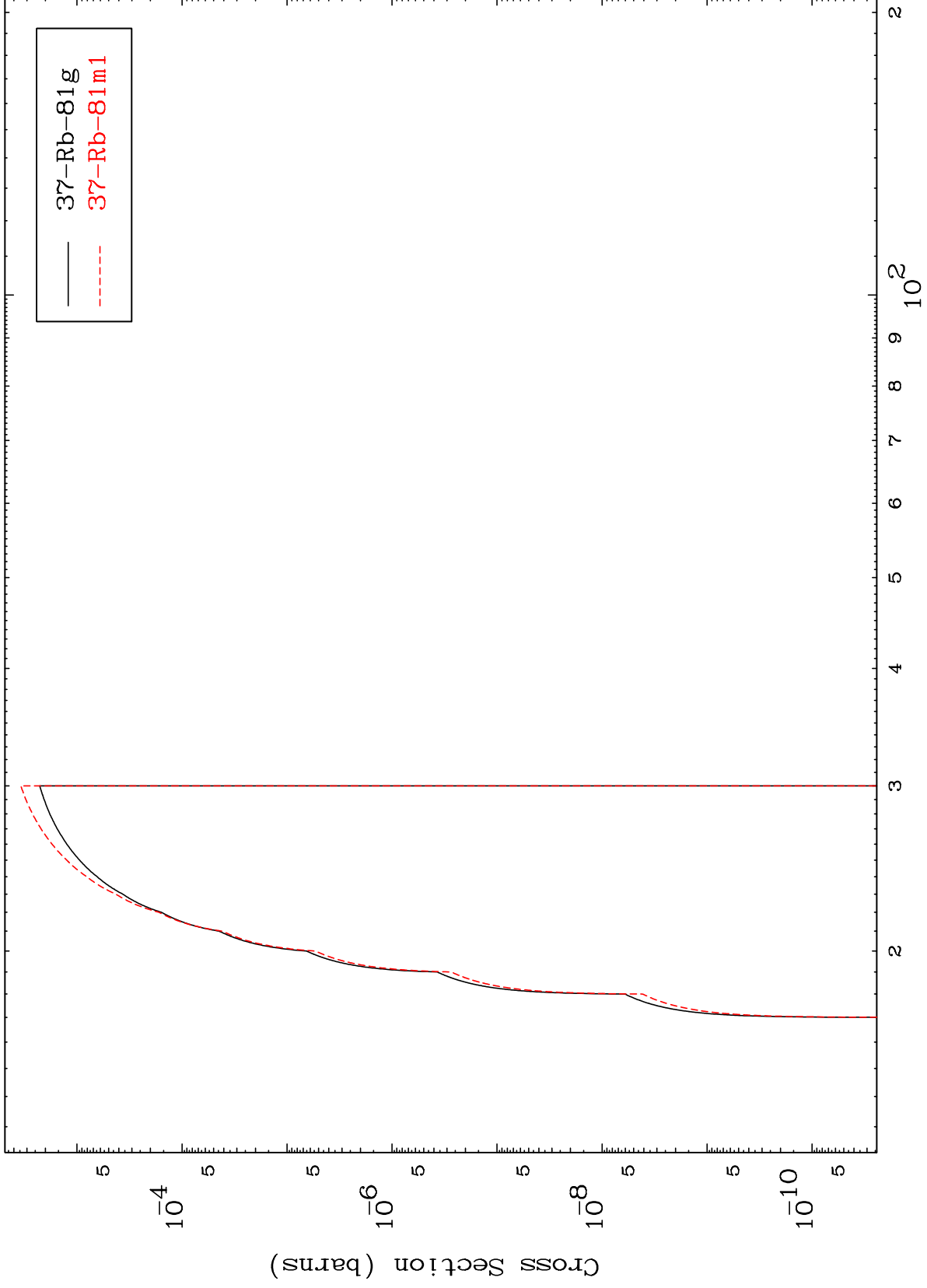


Incident Energy (MeV)

39-Y -84m

30

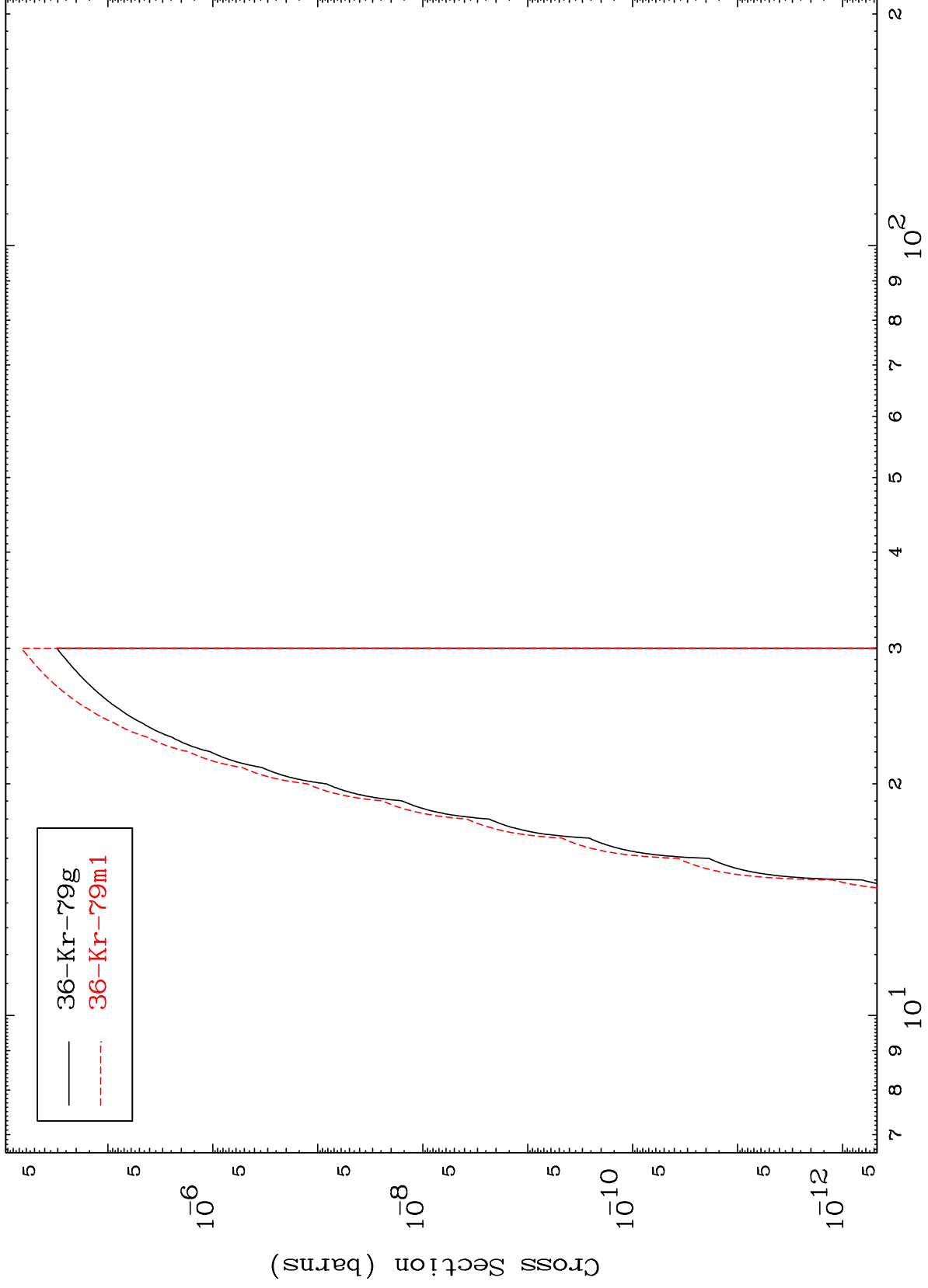
Radionuclide Production Cross Section



MAT 3911

39-Y -84m

(n,d) α
Radionuclide Production Cross Section



32

Incident Energy (MeV)

39-Y -84m