

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

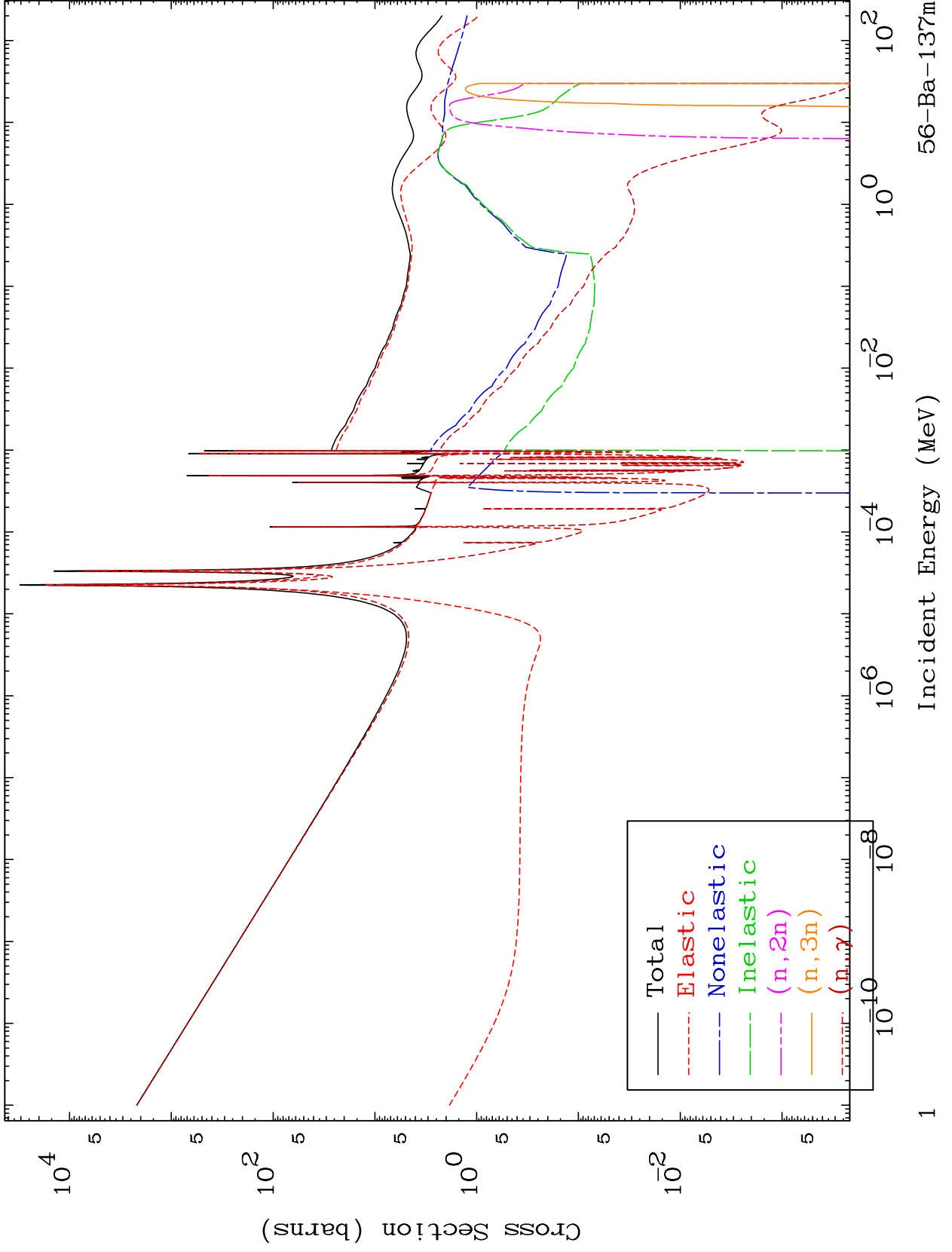
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5647

Neutron Major
293 Kelvin Cross Sections

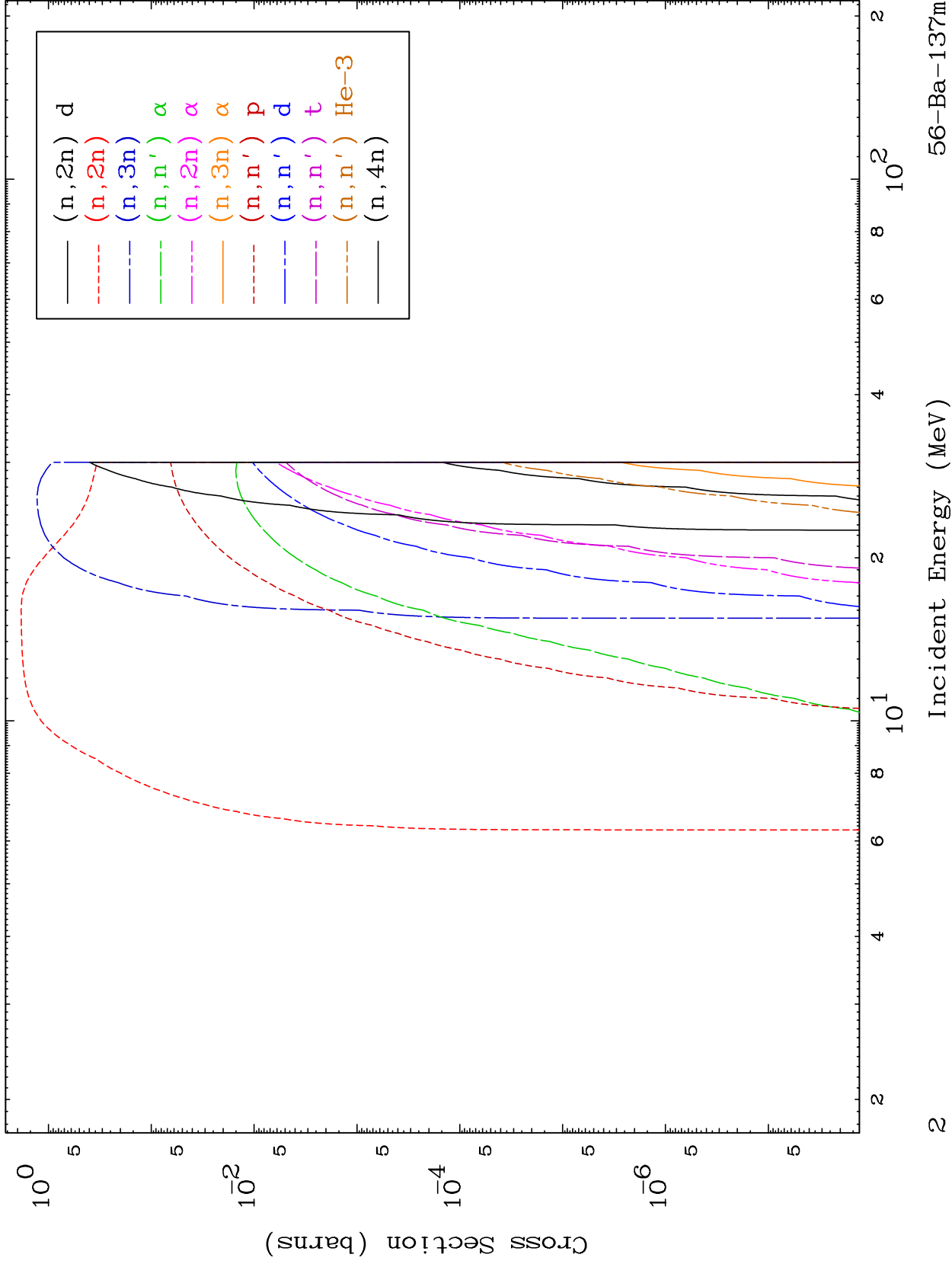
56-Ba-137m



MAT 5647

Neutron Absorption
293 Kelvin Cross Sections

56-Ba-137m



2

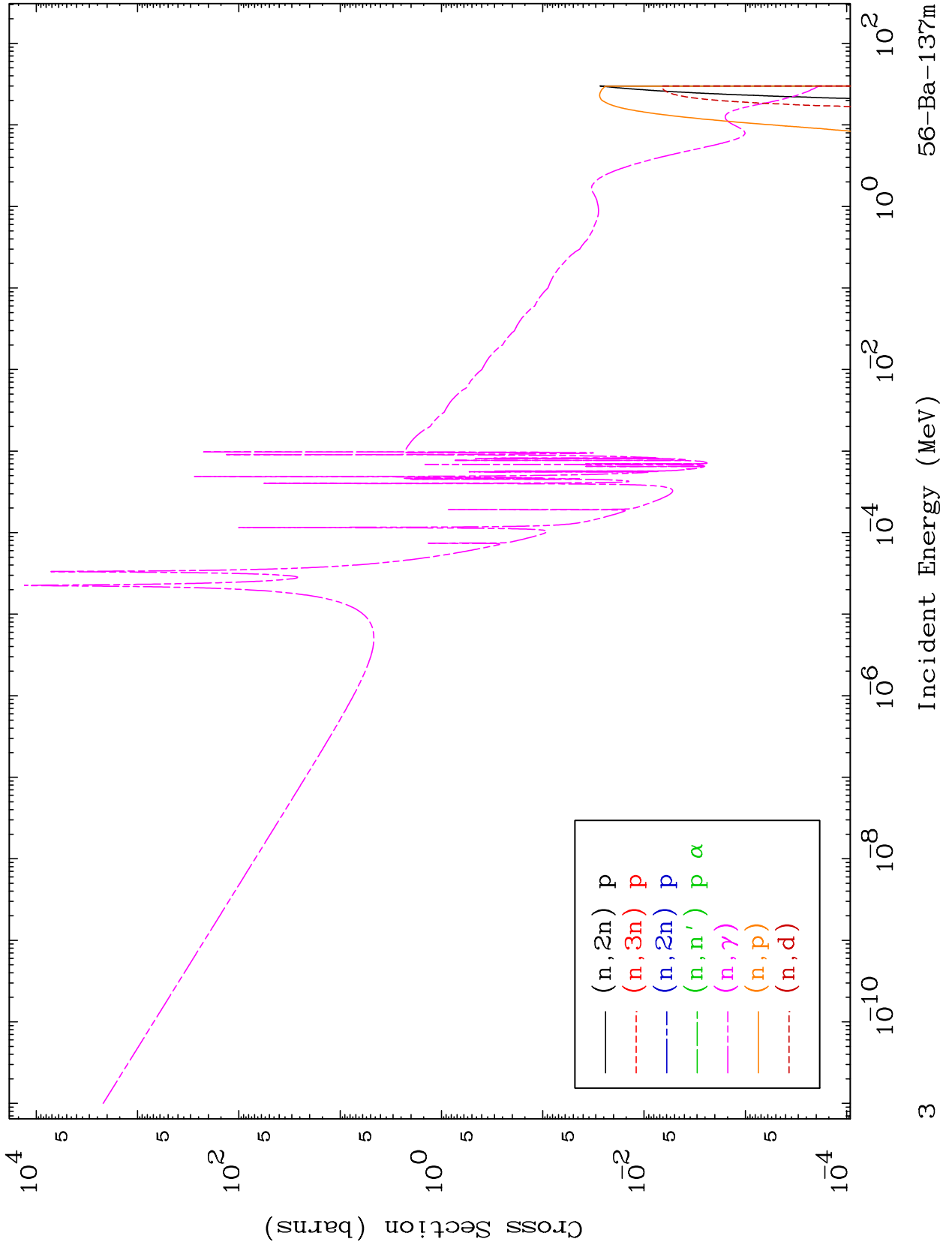
Incident Energy (MeV)

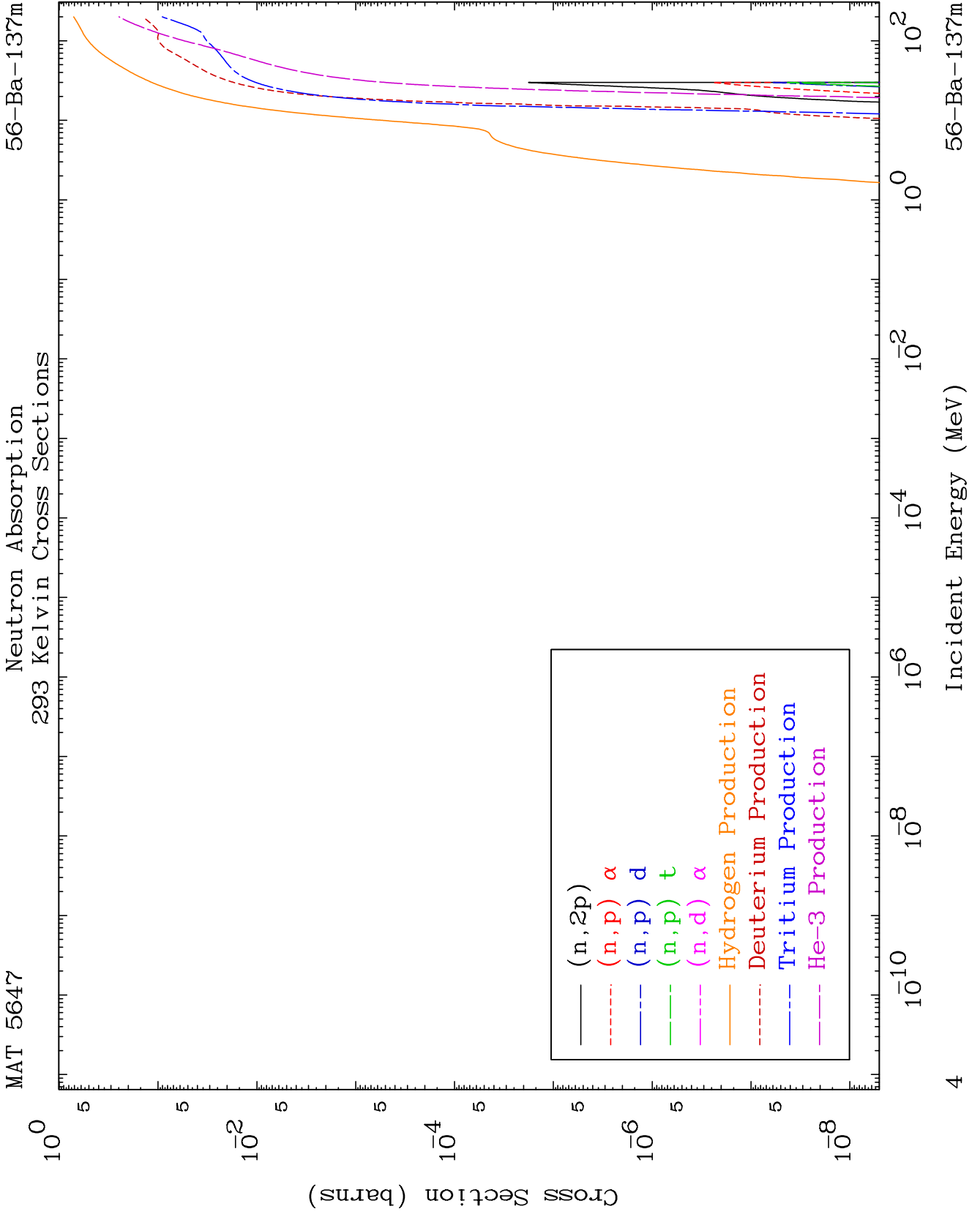
56-Ba-137m

MAT 5647

Neutron Absorption
293 Kelvin Cross Sections

56-Ba-137m

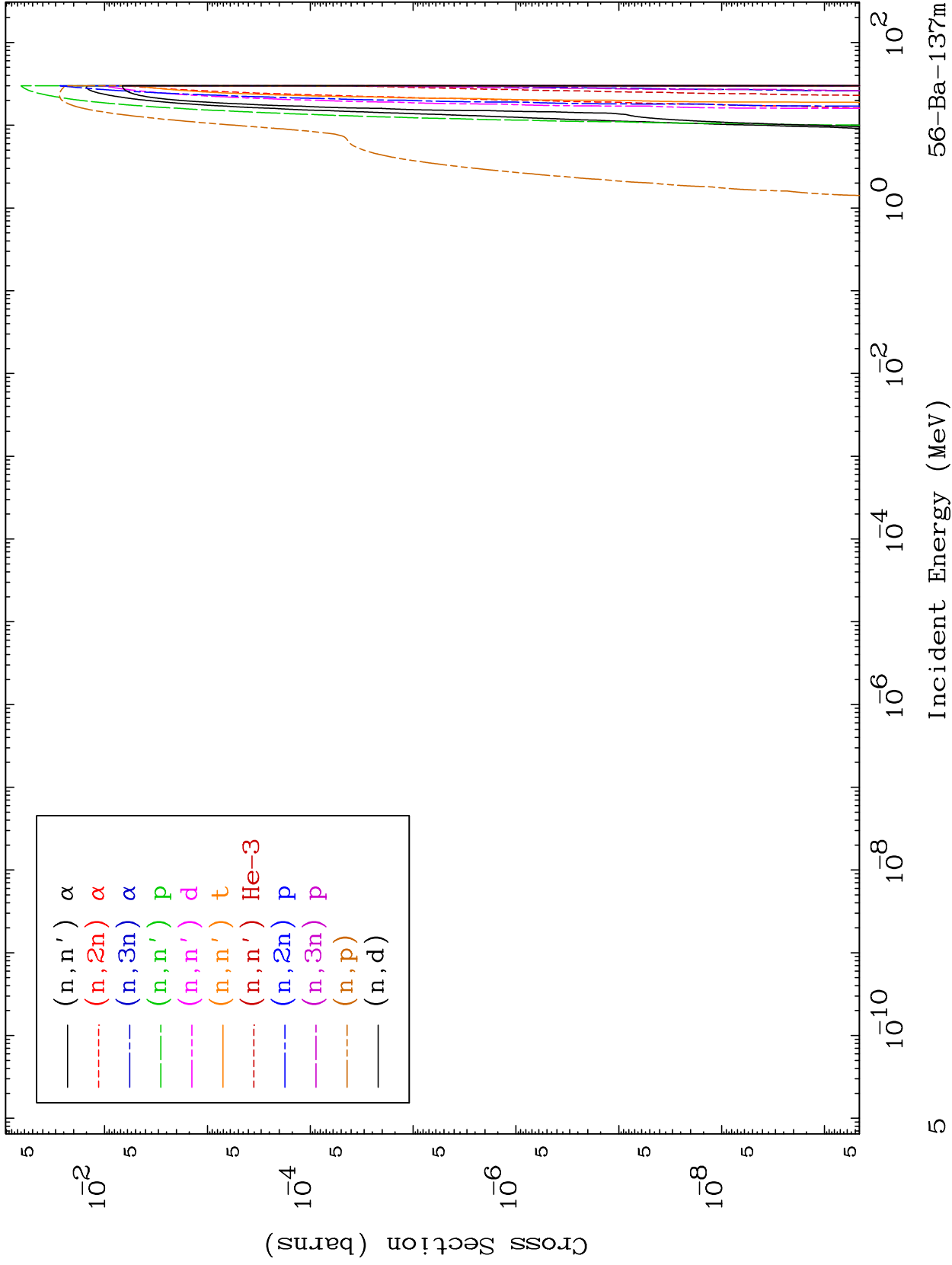




MAT 5647

Charged Particle
293 Kelvin Cross Sections

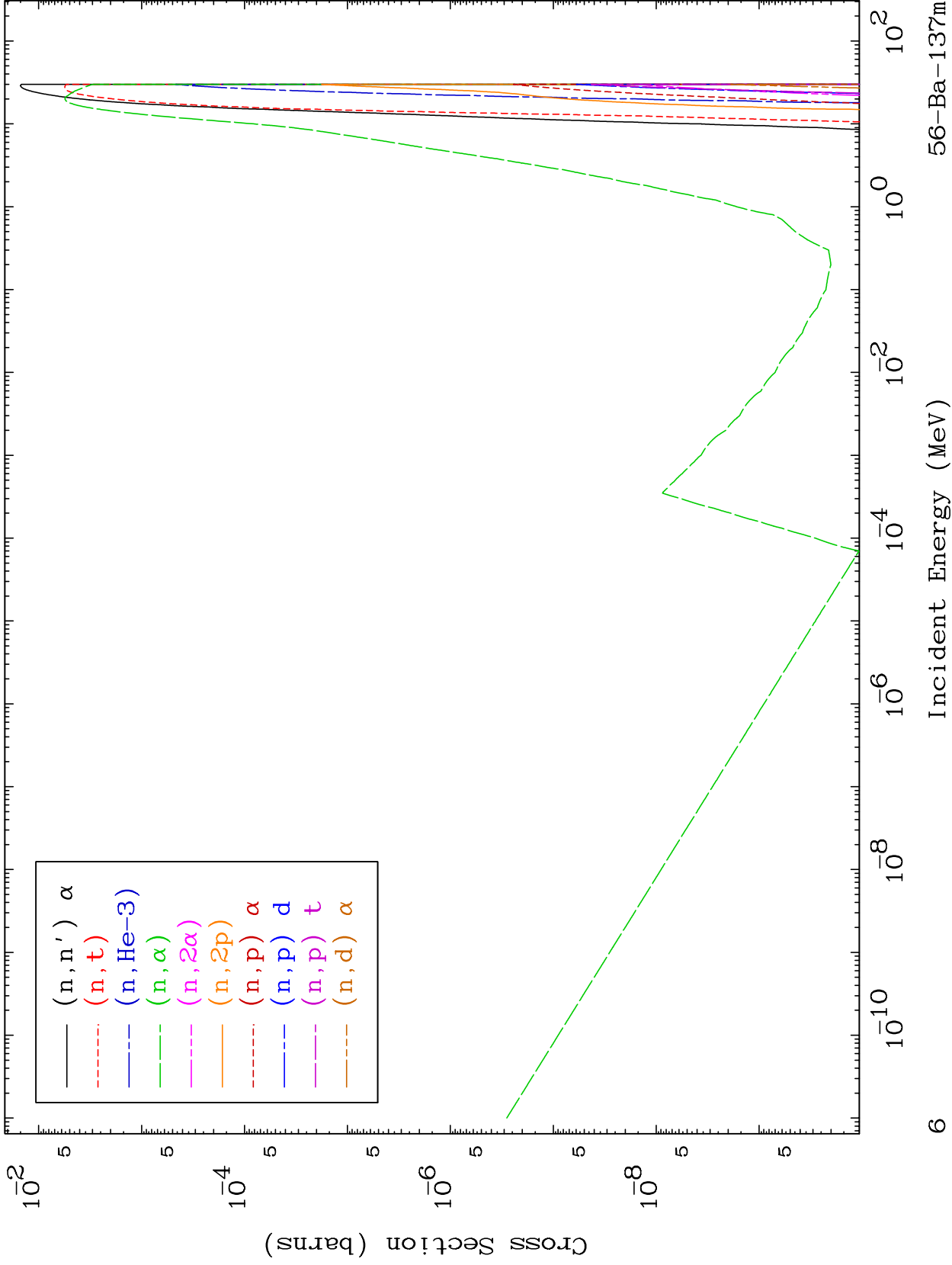
56-Ba-137m

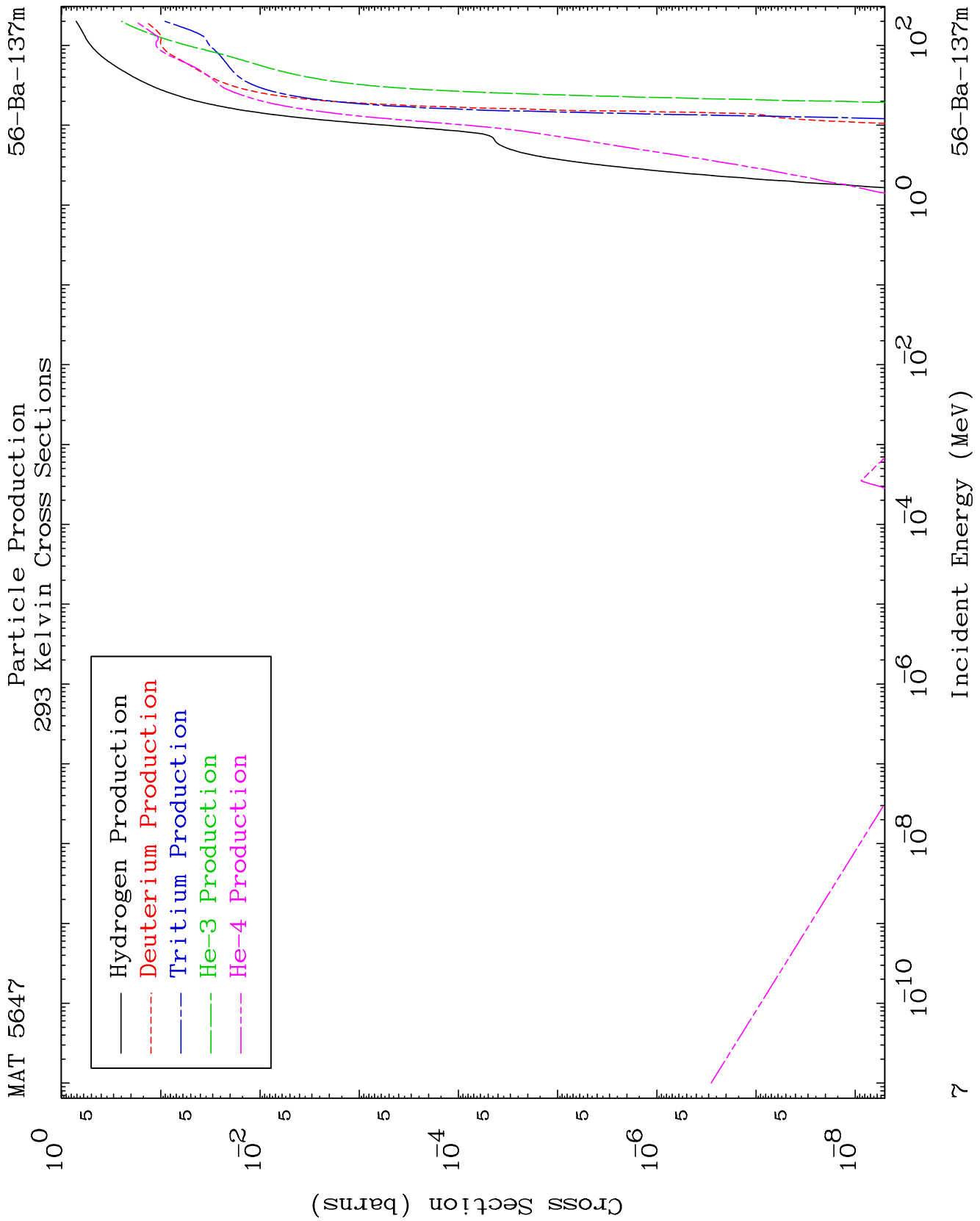


MAT 5647

Charged Particle
293 Kelvin Cross Sections

56-Ba-137m

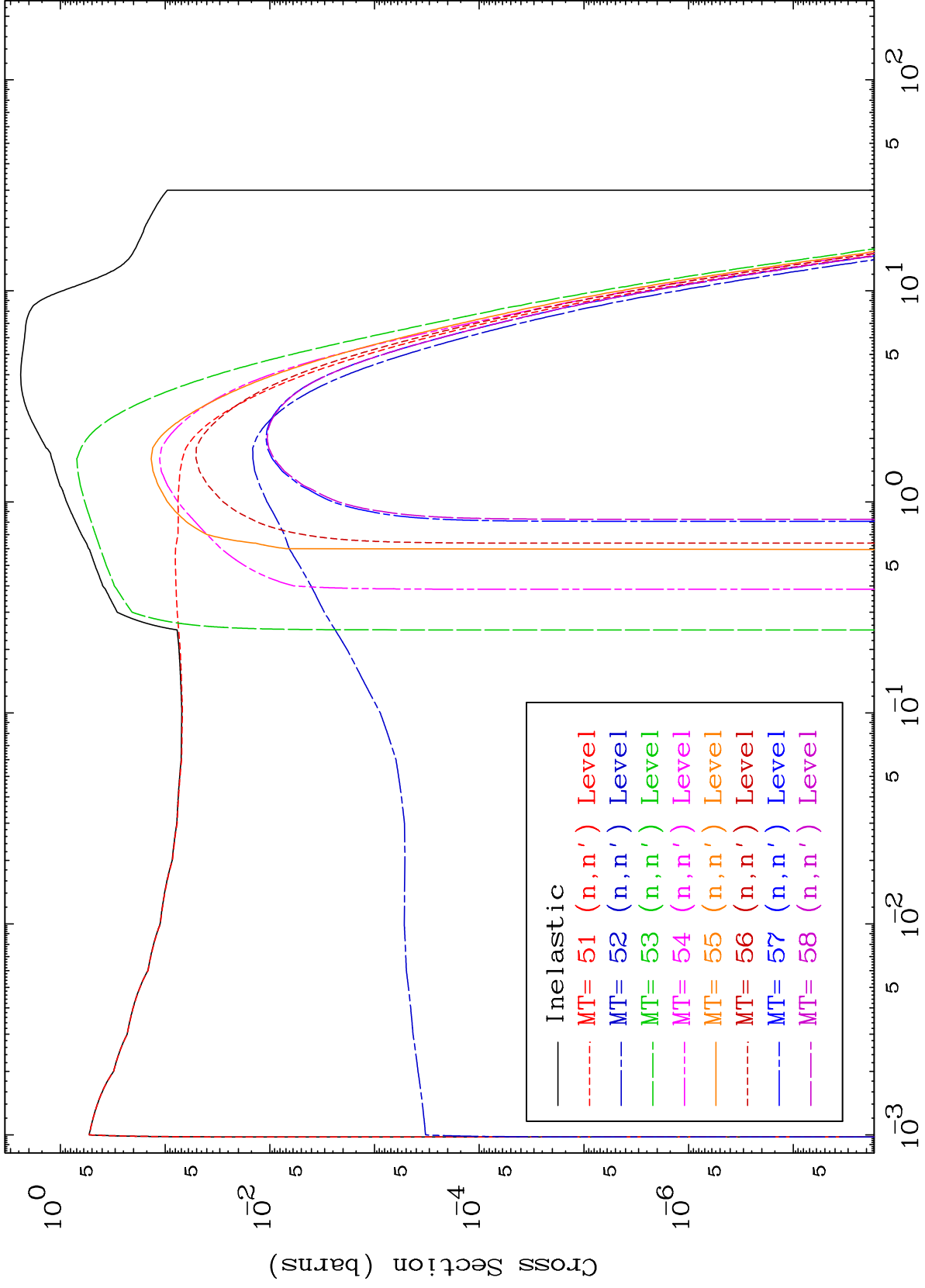




MAT 5647

(n,n') Levels
293 Kelvin Cross Sections

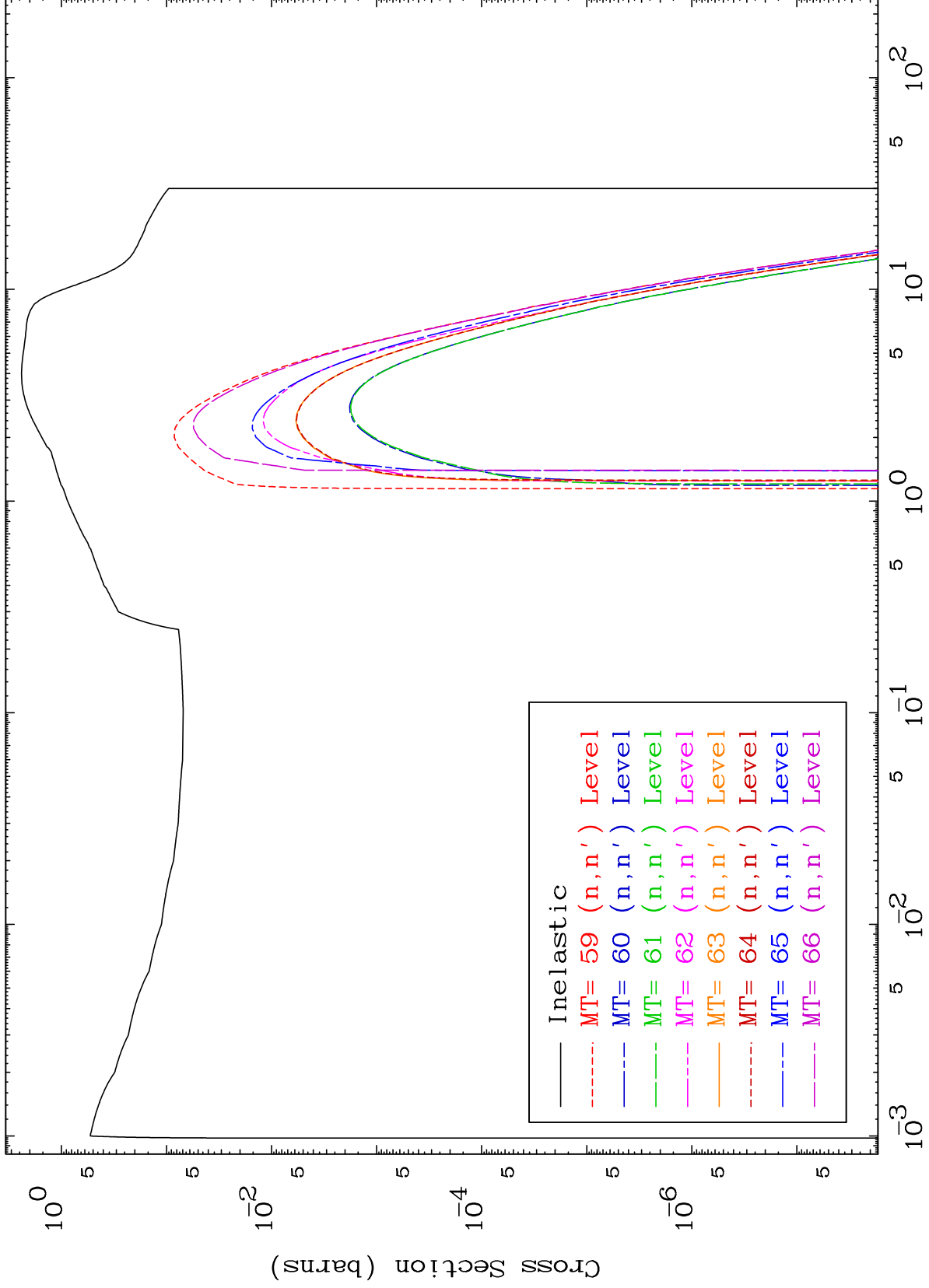
56-Ba-137m



MAT 5647

(n,n') Levels
293 Kelvin Cross Sections

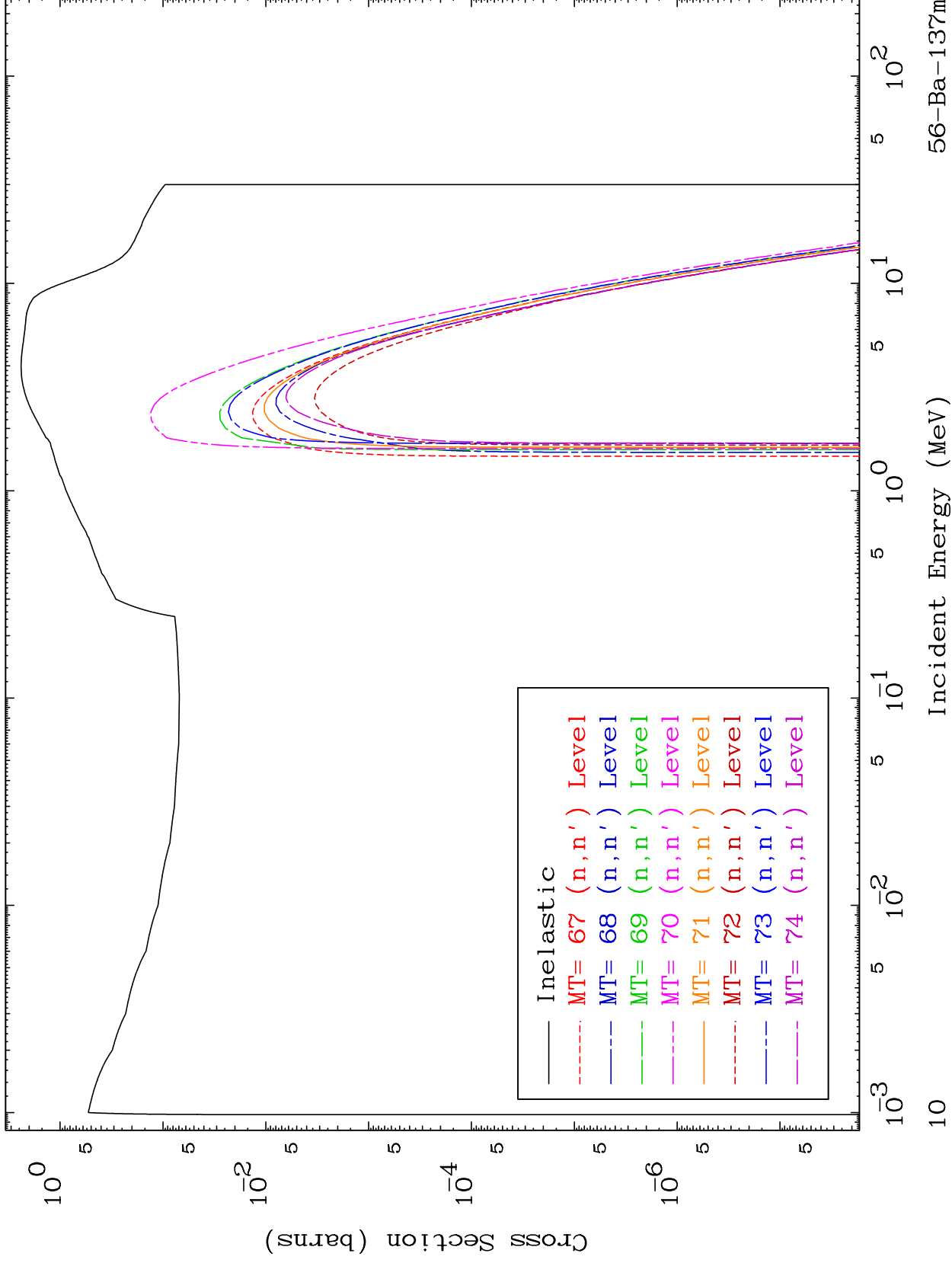
56-Ba-137m



MAT 5647

(n,n') Levels
293 Kelvin Cross Sections

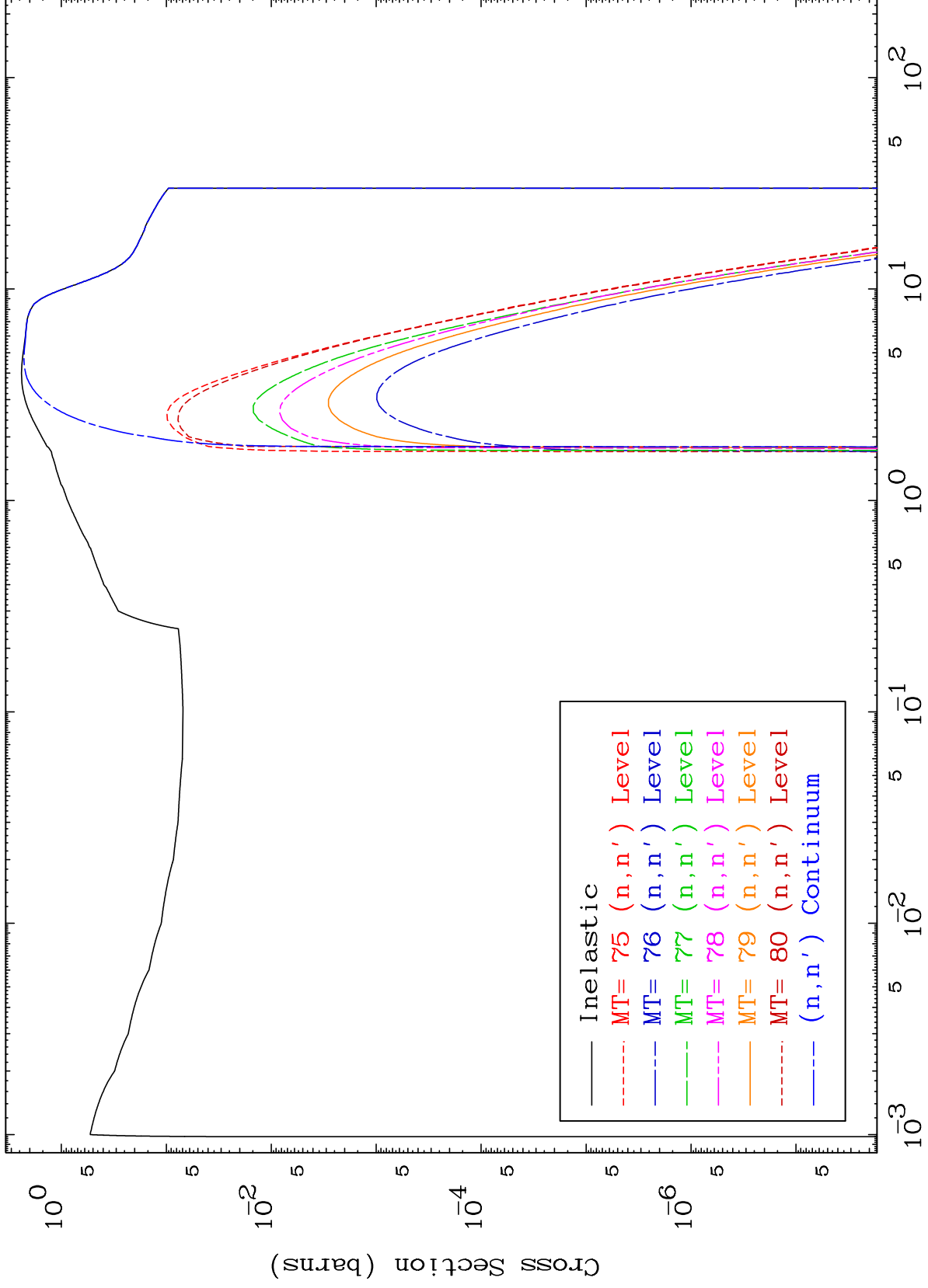
56-Ba-137m



MAT 5647

(n,n') Levels
293 Kelvin Cross Sections

56-Ba-137m



11

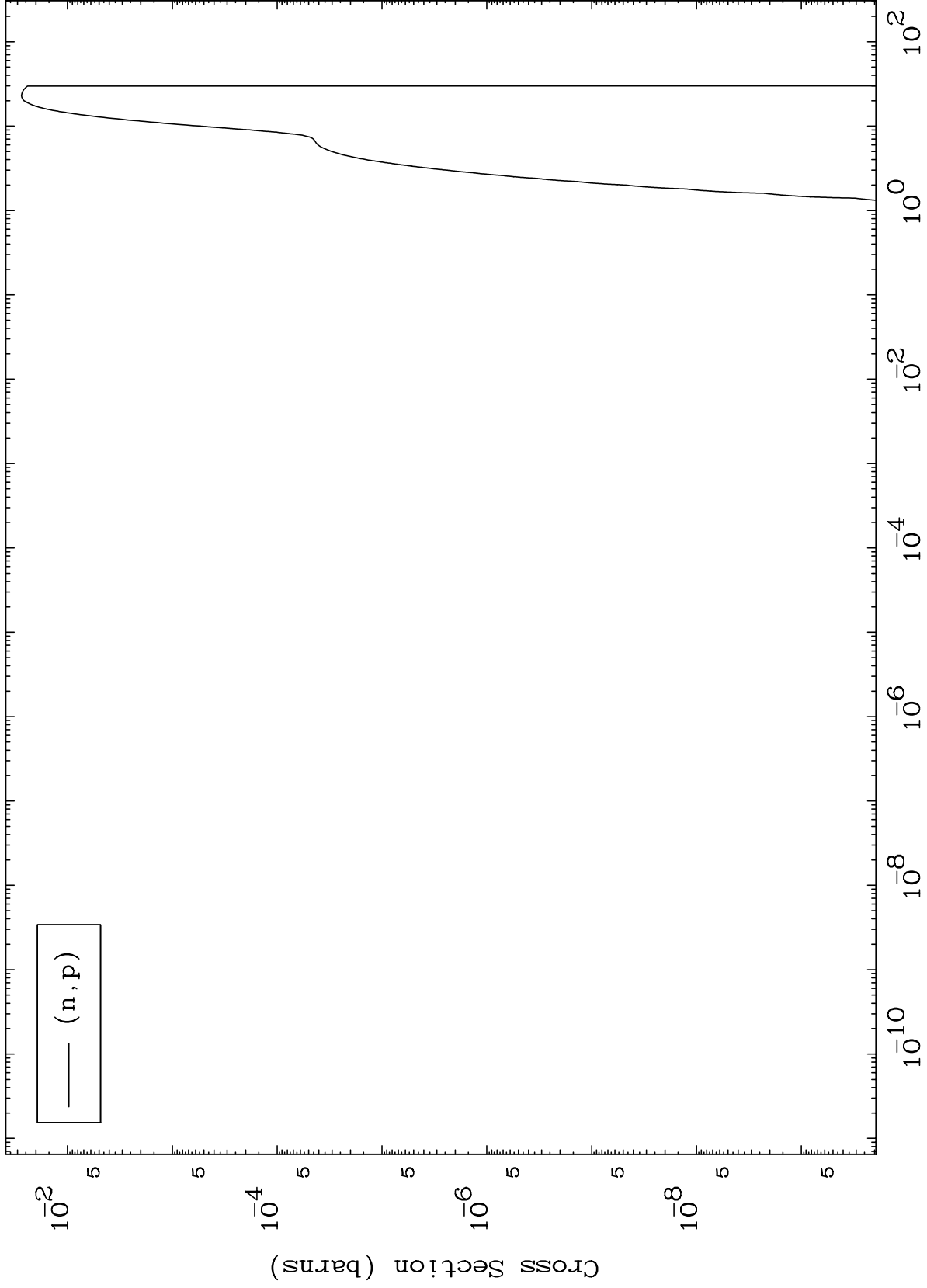
Incident Energy (MeV)

56-Ba-137m

MAT 5647

(n,p) Levels
293 Kelvin Cross Sections

56-Ba-137m



12

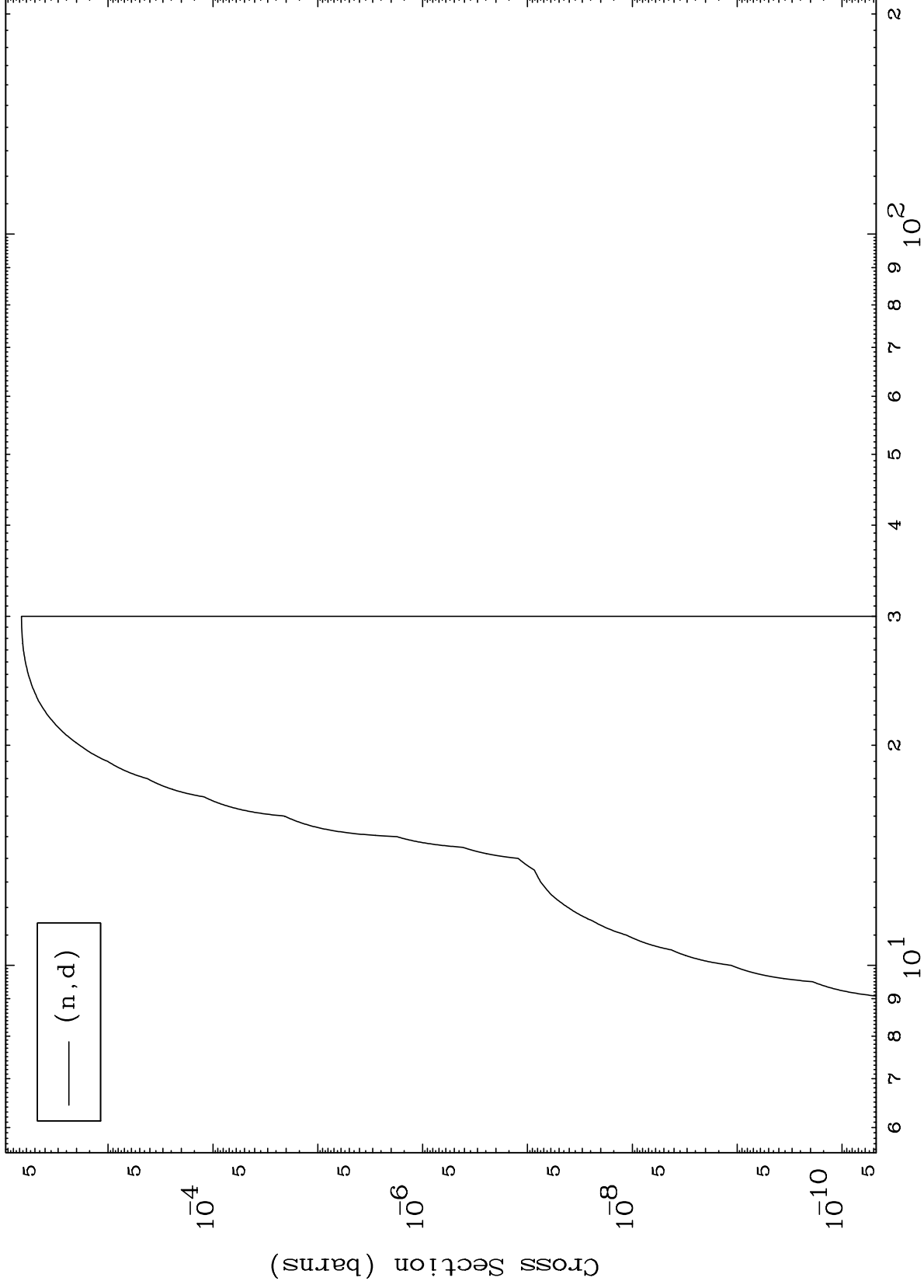
Incident Energy (MeV)

56-Ba-137m

MAT 5647

(n,d) Levels
293 Kelvin Cross Sections

56-Ba-137m



13

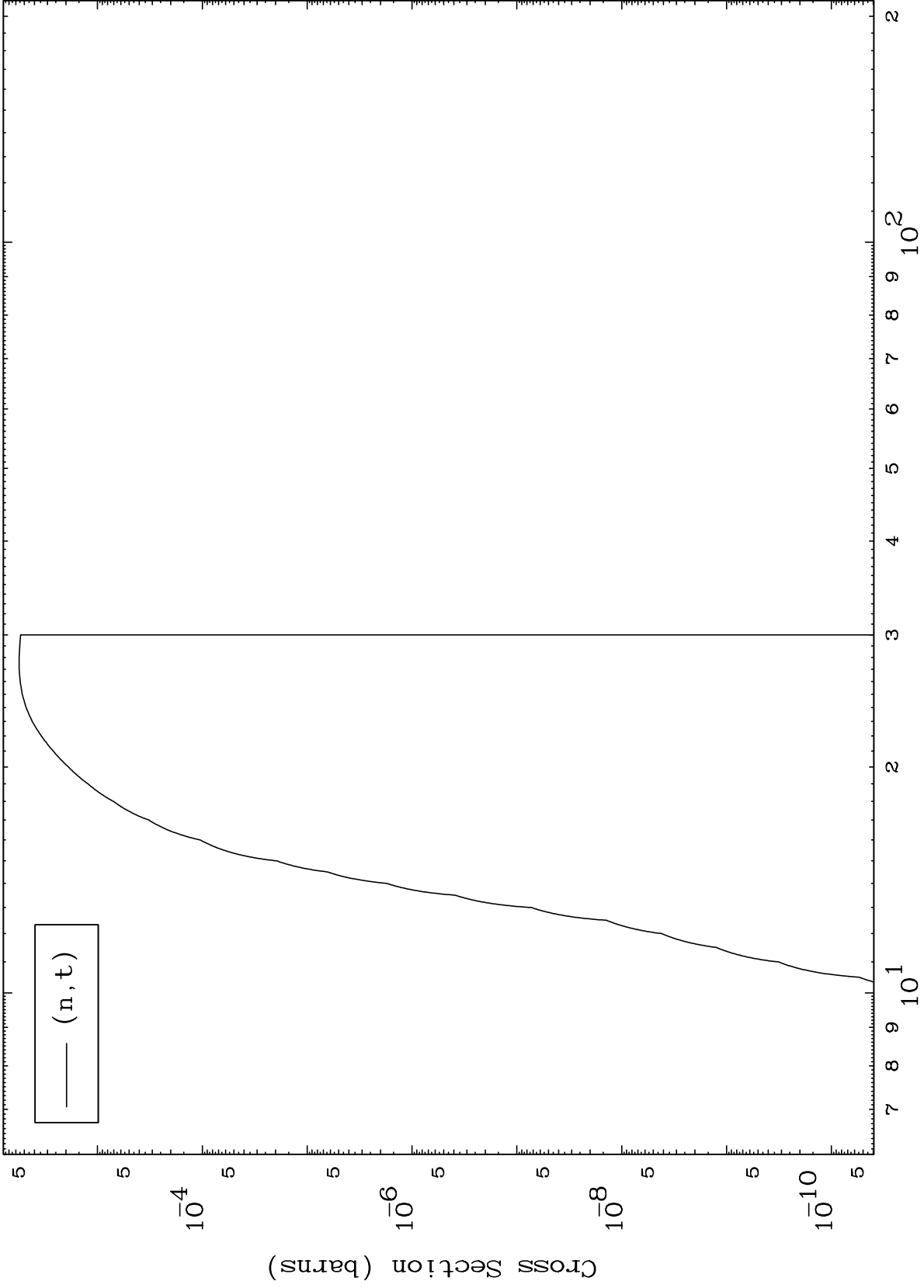
Incident Energy (MeV)

56-Ba-137m

MAT 5647

(n,t) Levels
293 Kelvin Cross Sections

56-Ba-137m



14

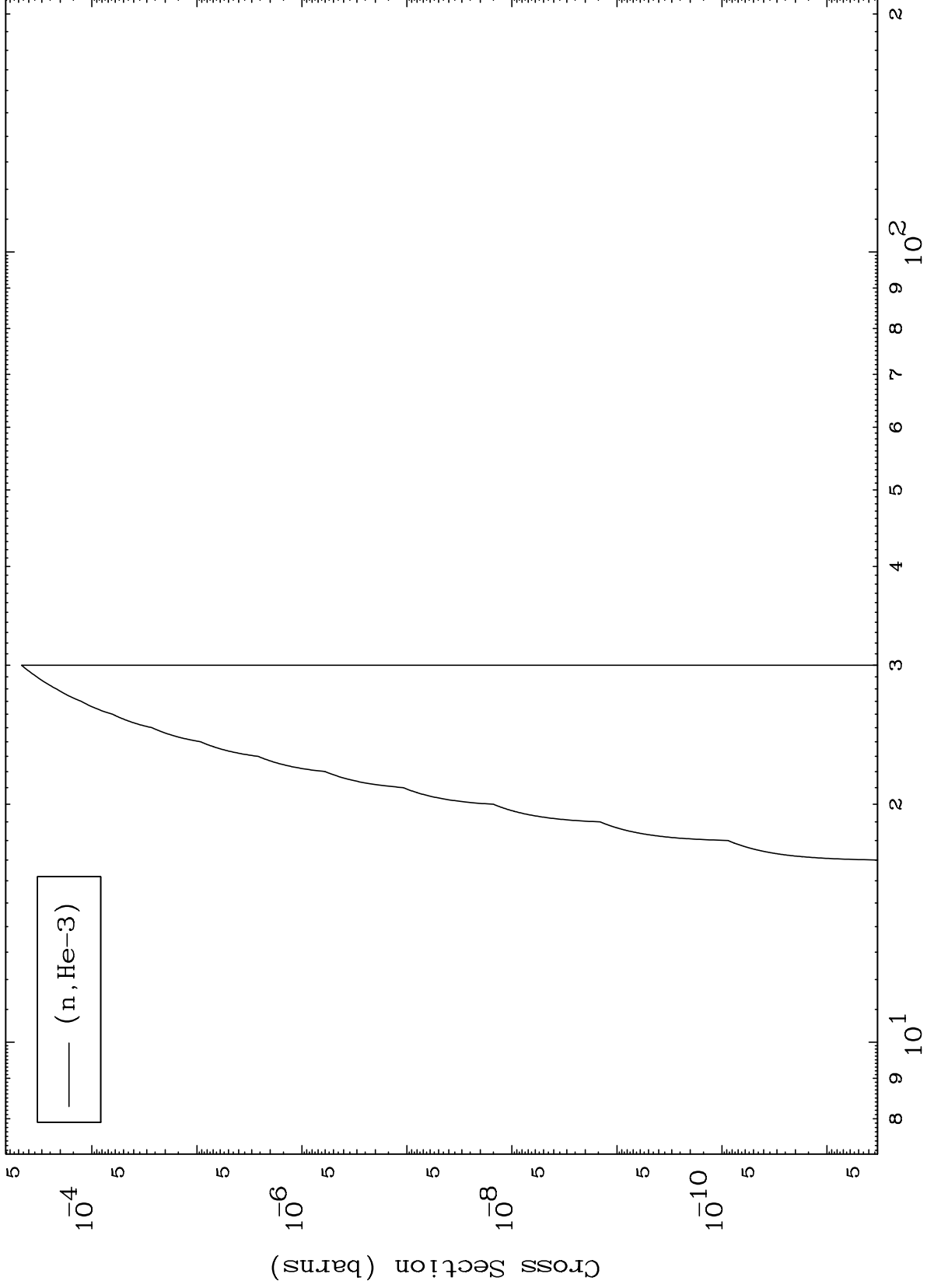
Incident Energy (MeV)

56-Ba-137m

MAT 5647

(n,He3) Levels
293 Kelvin Cross Sections

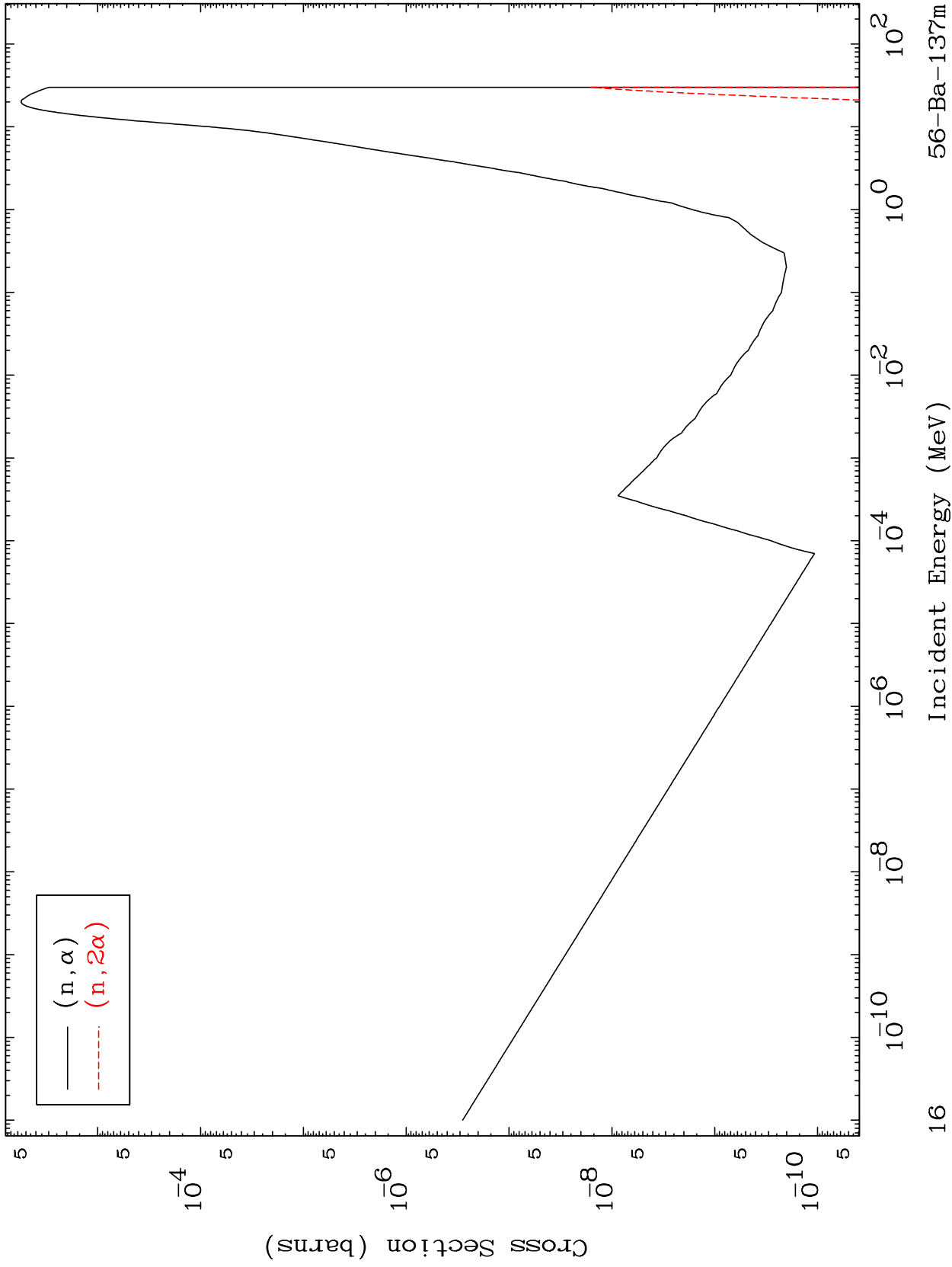
56-Ba-137m



MAT 5647

(n, α) Levels
293 Kelvin Cross Sections

56-Ba-137m

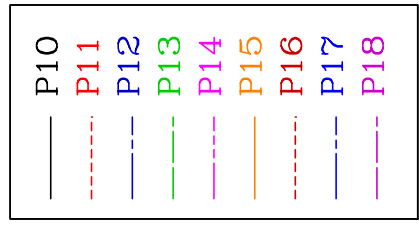


16

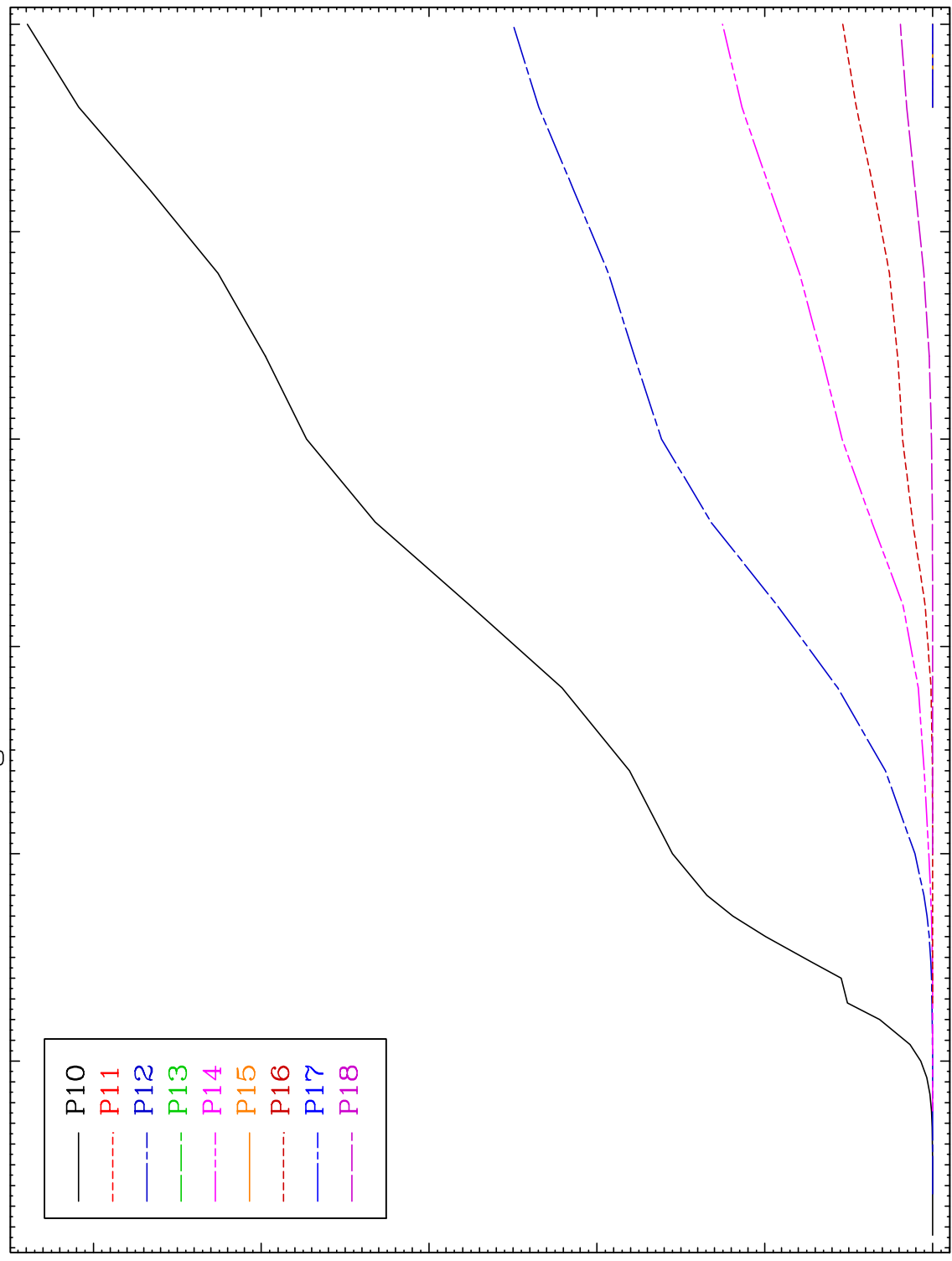
MAT 5647

Elastic
Legendre Coefficients

56-Ba-137m



Legendre (CM)
 $\times 10^{-4}$



18

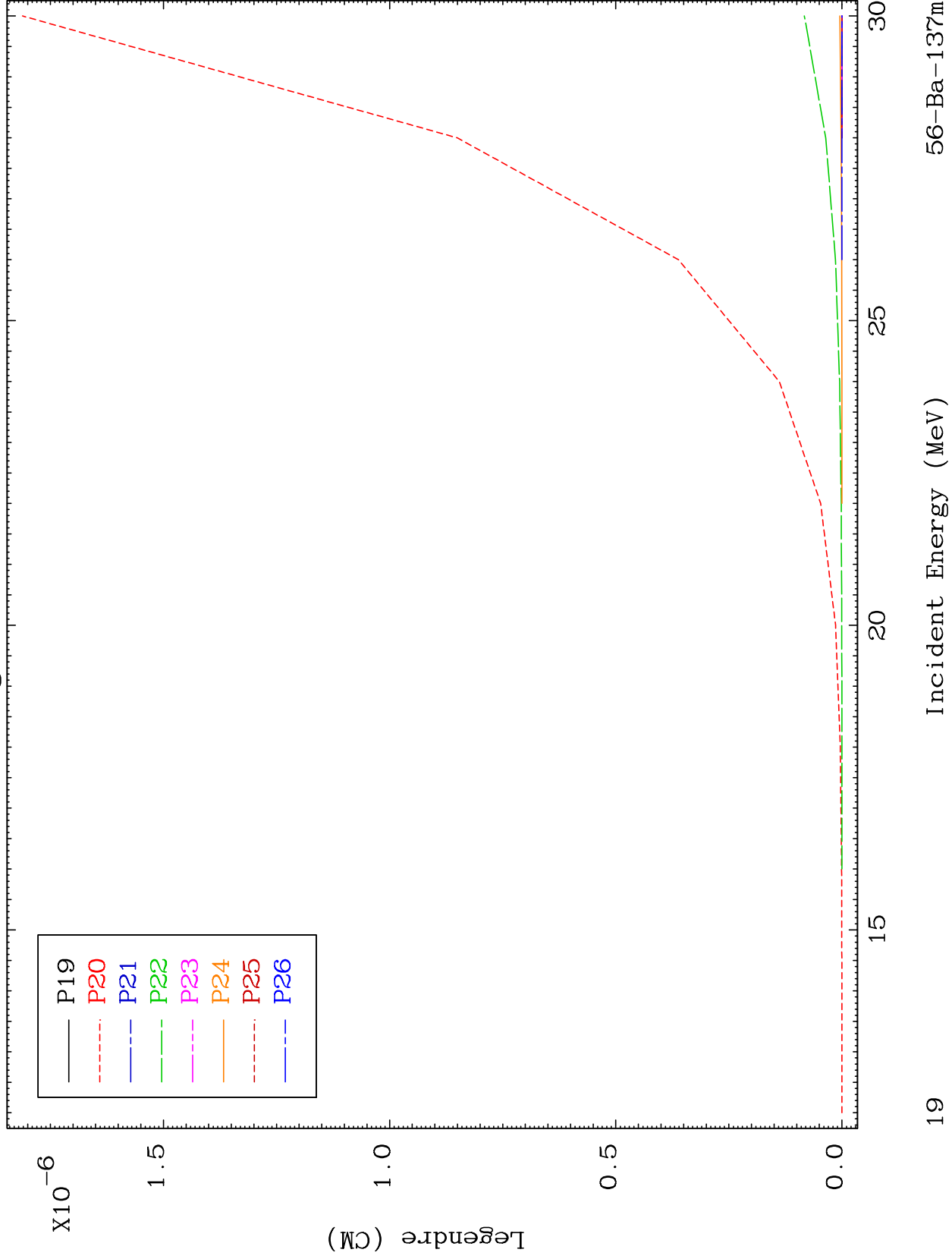
Incident Energy (MeV)

56-Ba-137m

MAT 5647

Elastic Legendre Coefficients

56-Ba-137m



19

Incident Energy (MeV)

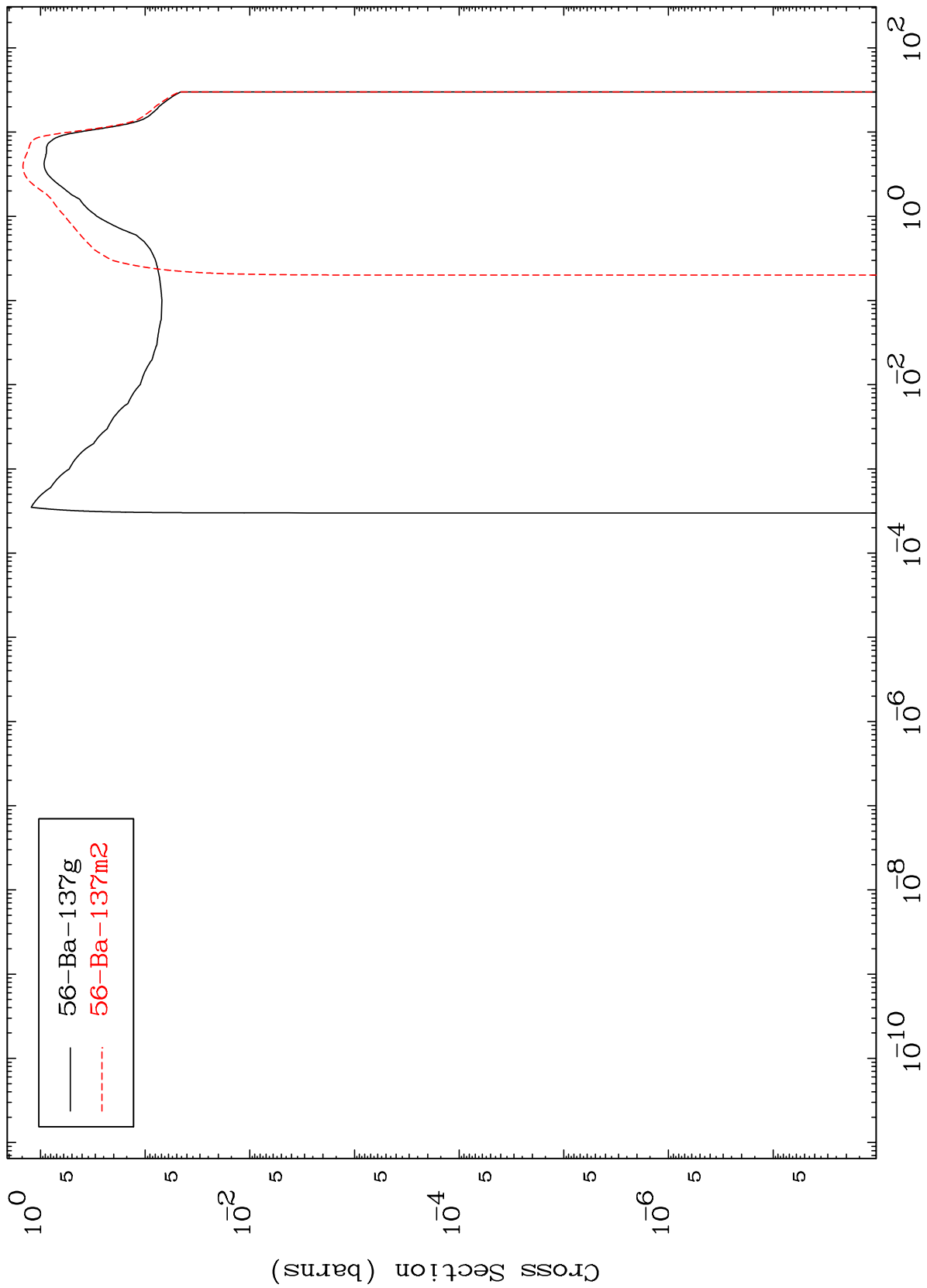
56-Ba-137m

MAT 5647

56-Ba-137m

Inelastic

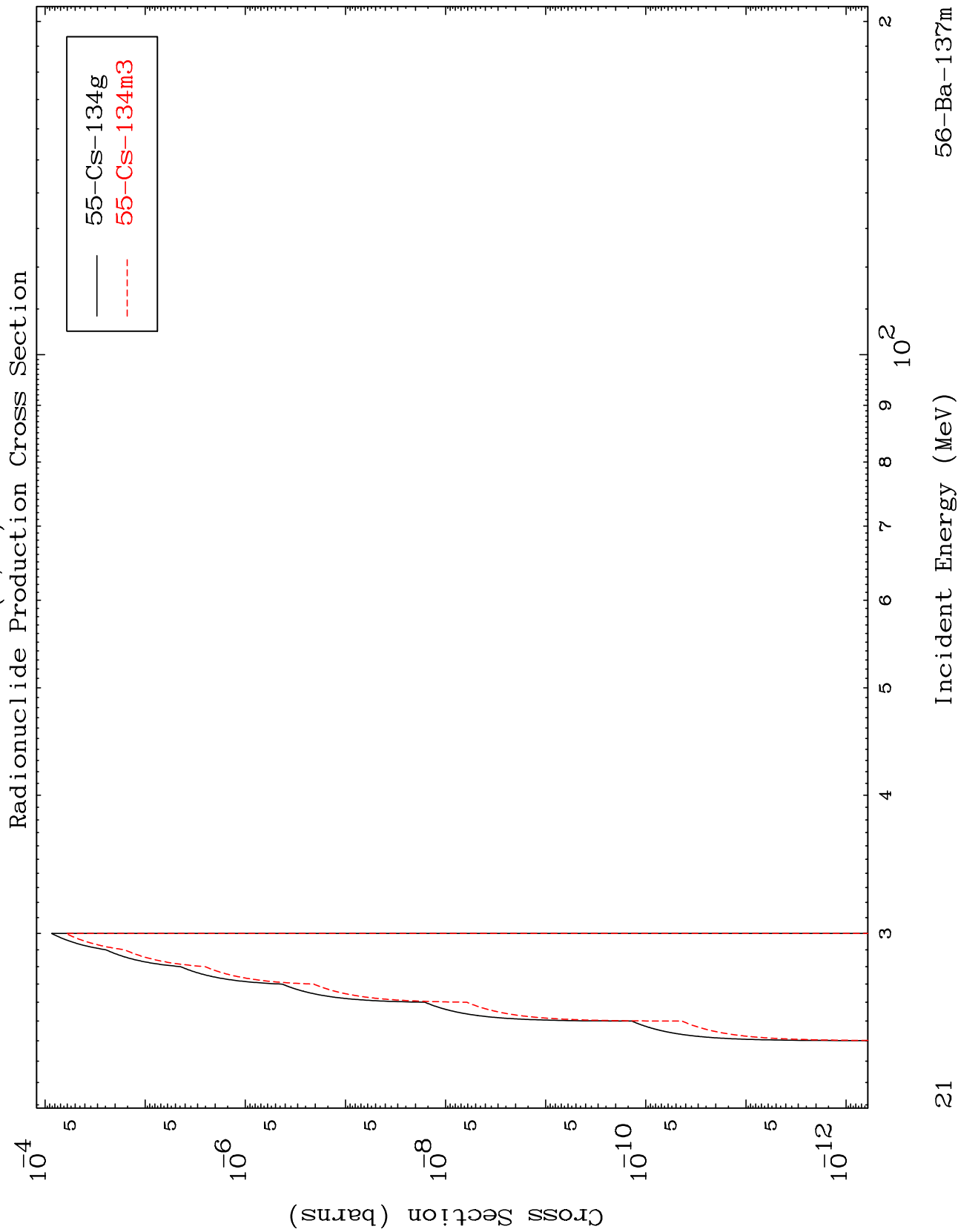
Radionuclide Production Cross Section



MAT 5647

(n,2n) d

56-Ba-137m

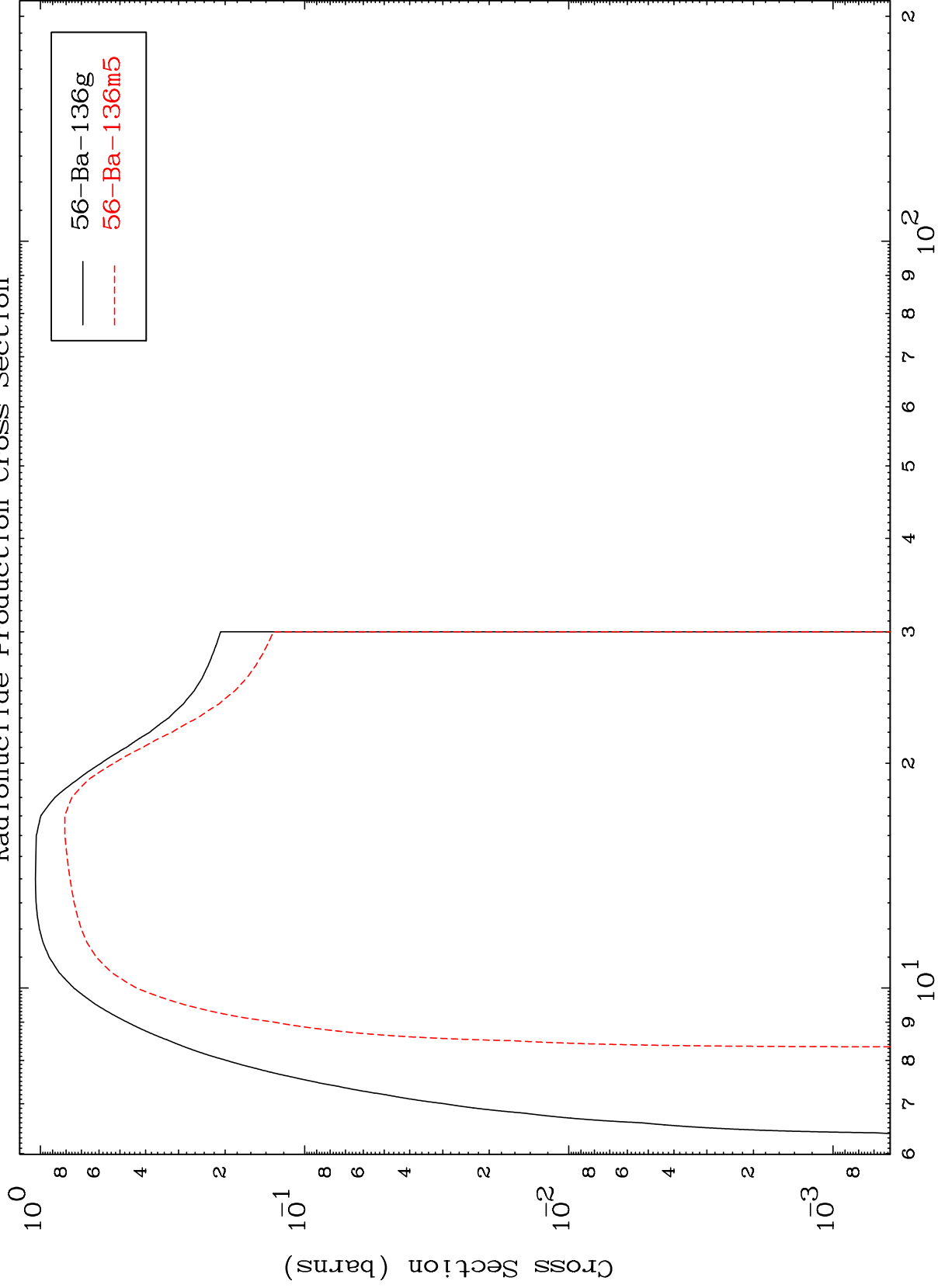


MAT 5647

(n,2n)

56-Ba-137m

Radionuclide Production Cross Section



22

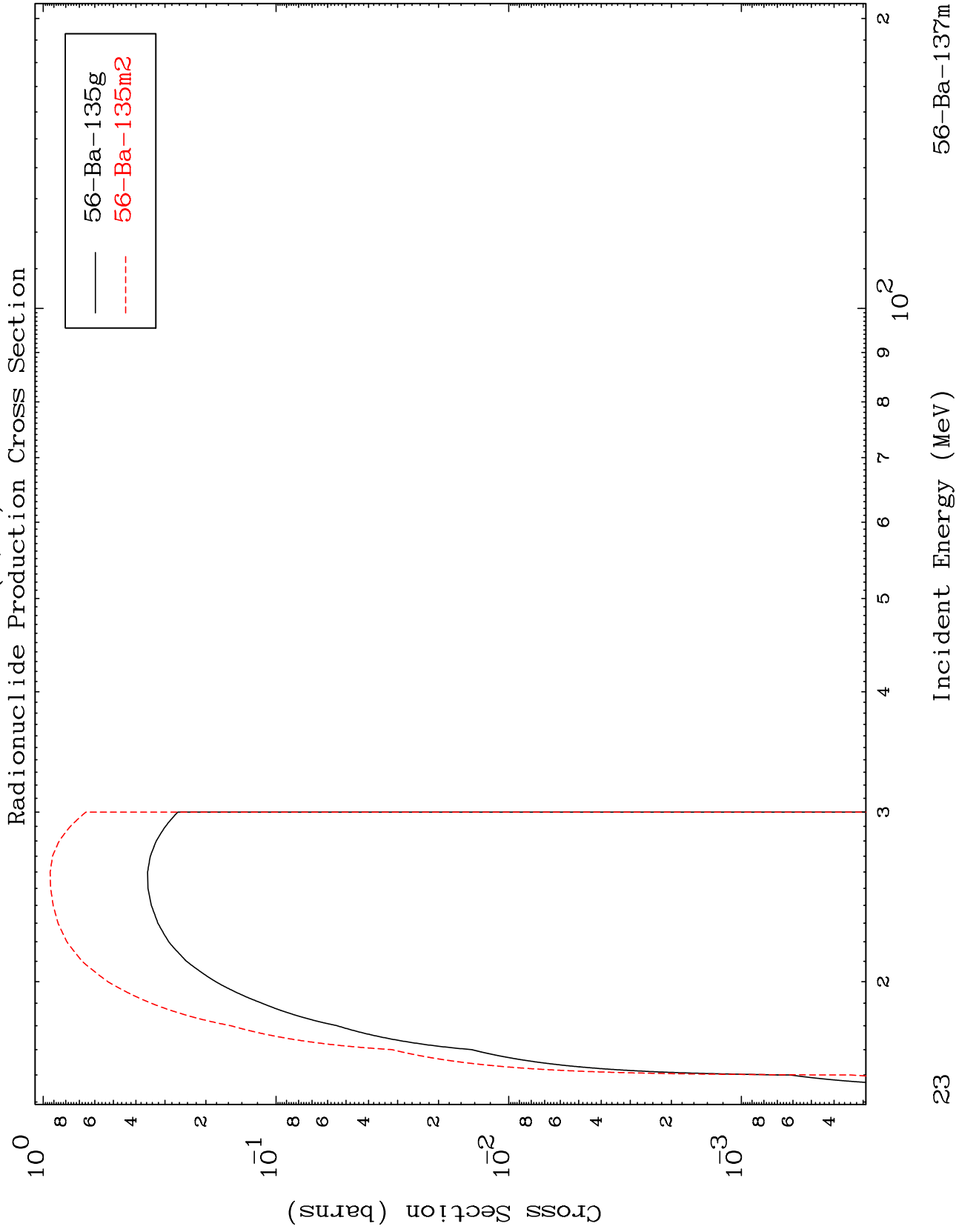
Incident Energy (MeV)

56-Ba-137m

MAT 5647

(n,3n)

56-Ba-137m



23

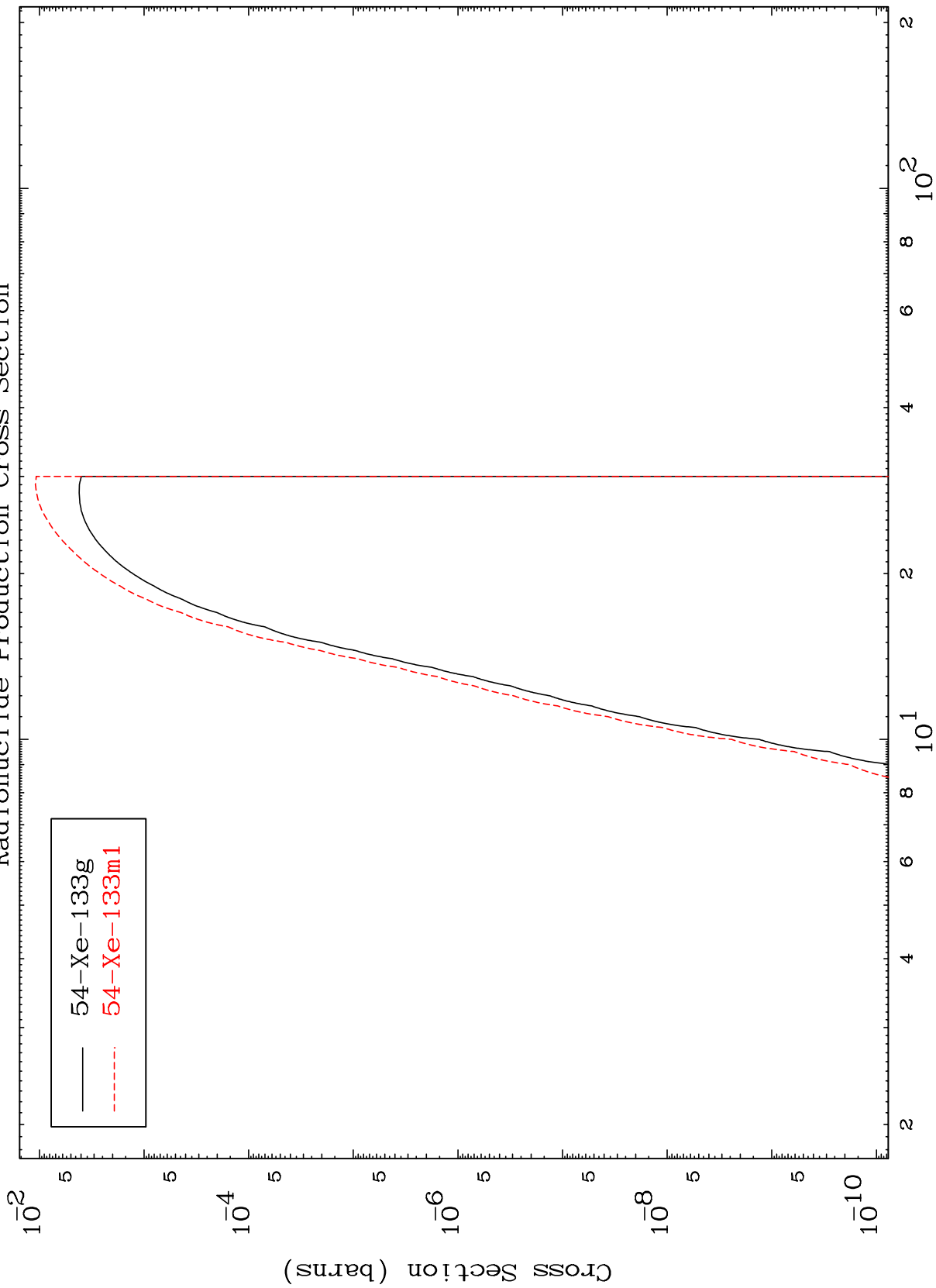
56-Ba-137m

MAT 5647

(n,n') α

56-Ba-137m

Radionuclide Production Cross Section



24

Incident Energy (MeV)

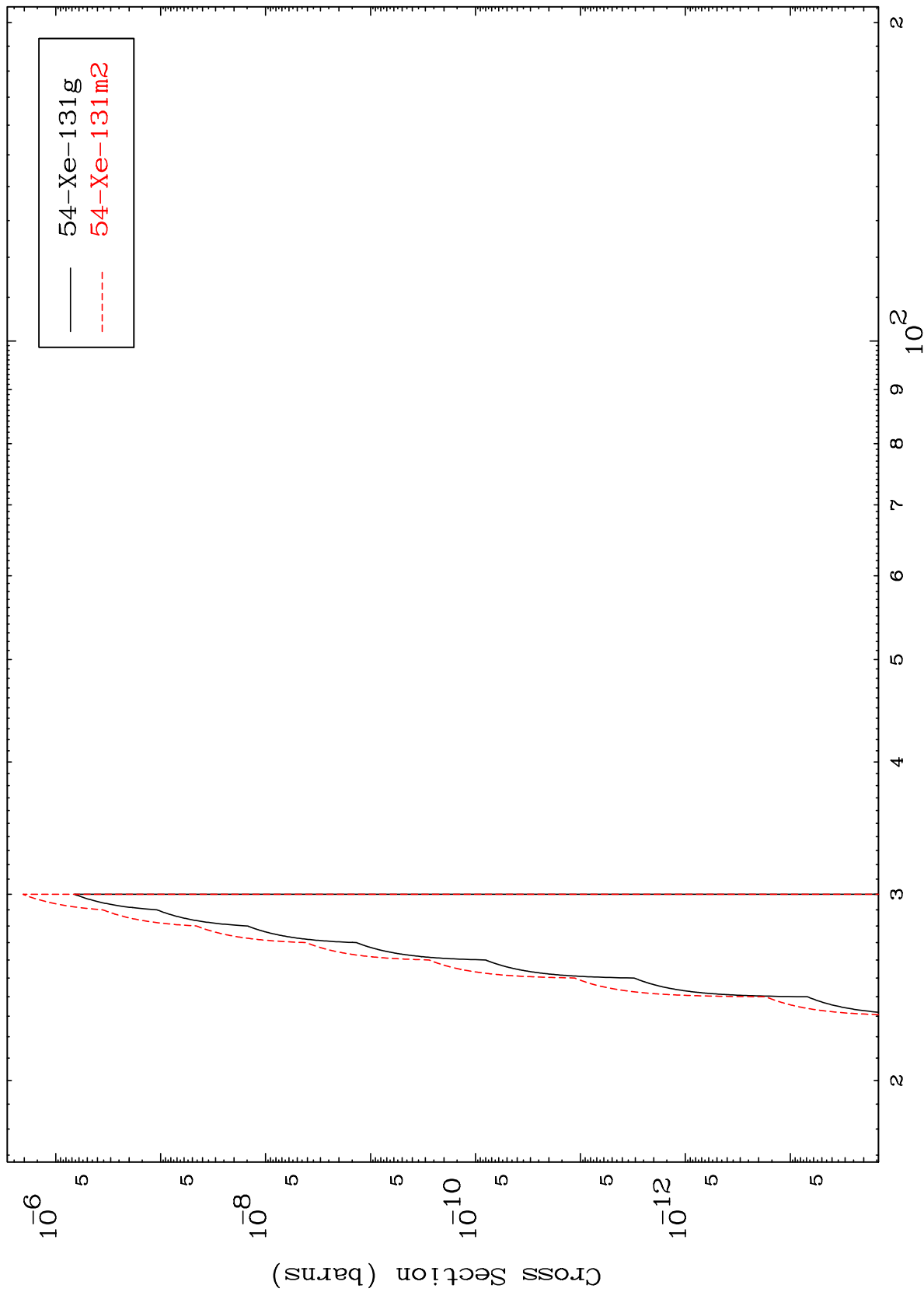
56-Ba-137m

MAT 5647

(n,3n) α

56-Ba-137m

Radionuclide Production Cross Section



25

Incident Energy (MeV)

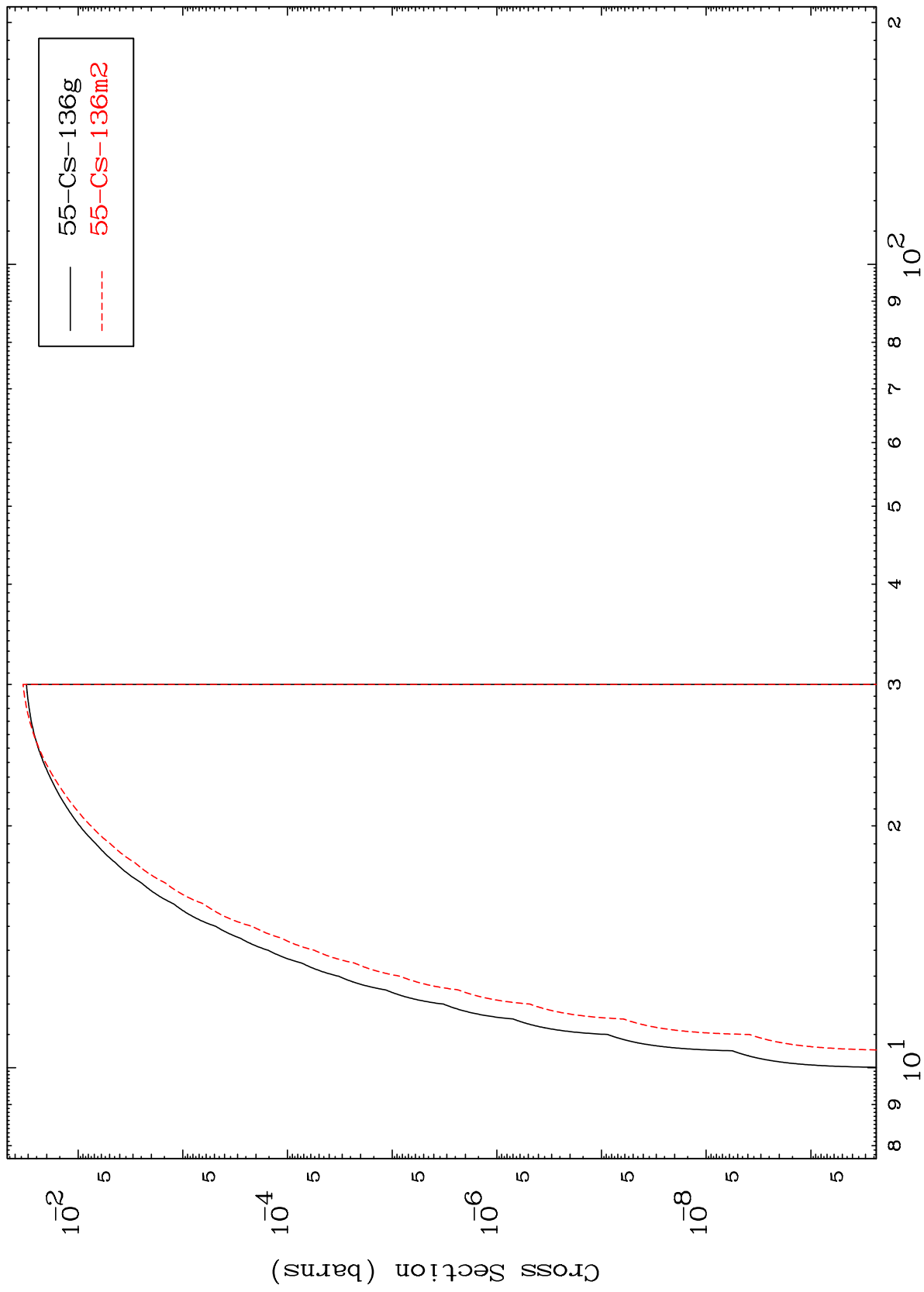
56-Ba-137m

MAT 5647

(n,n') p

56-Ba-137m

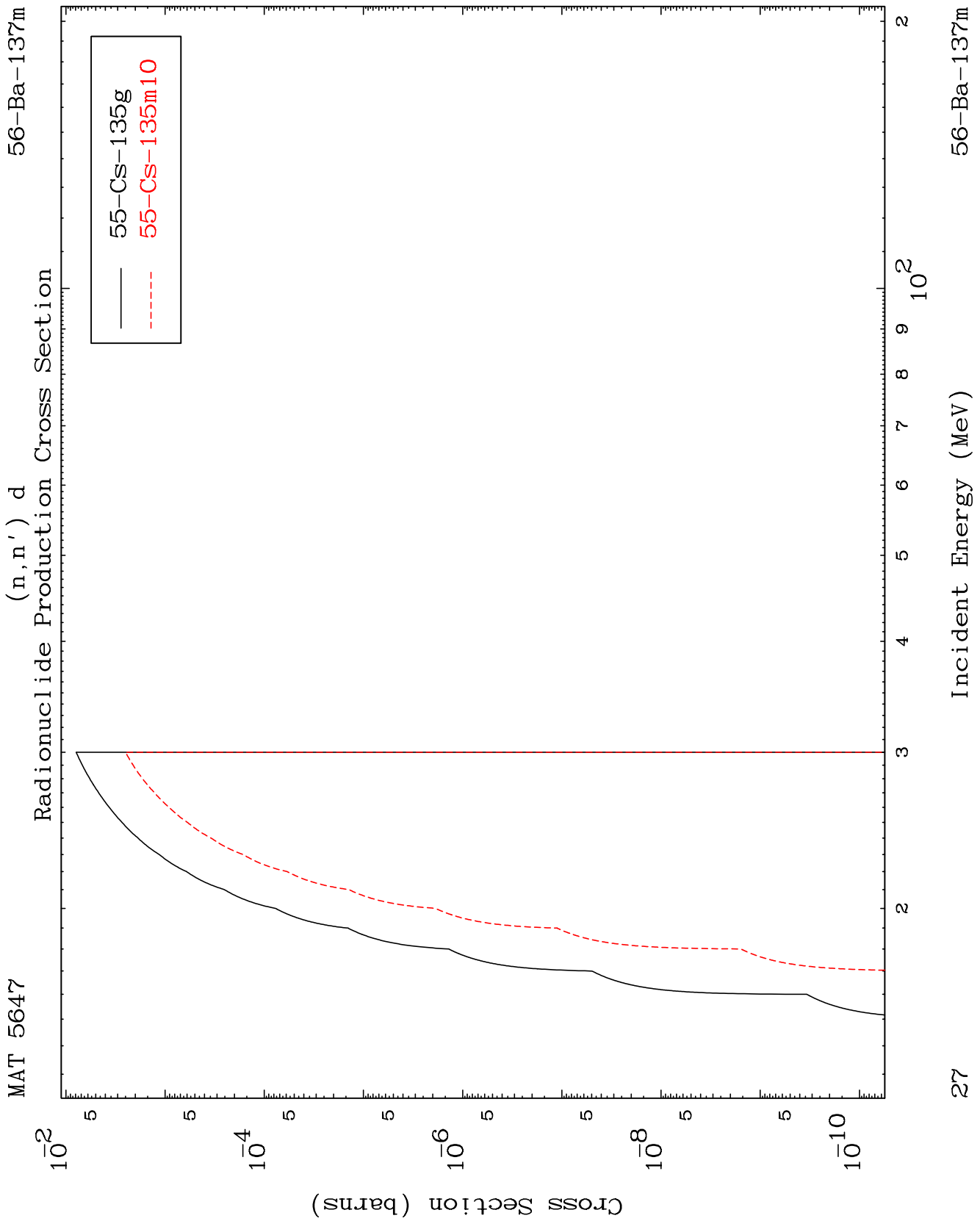
Radionuclide Production Cross Section



26

Incident Energy (MeV)

56-Ba-137m

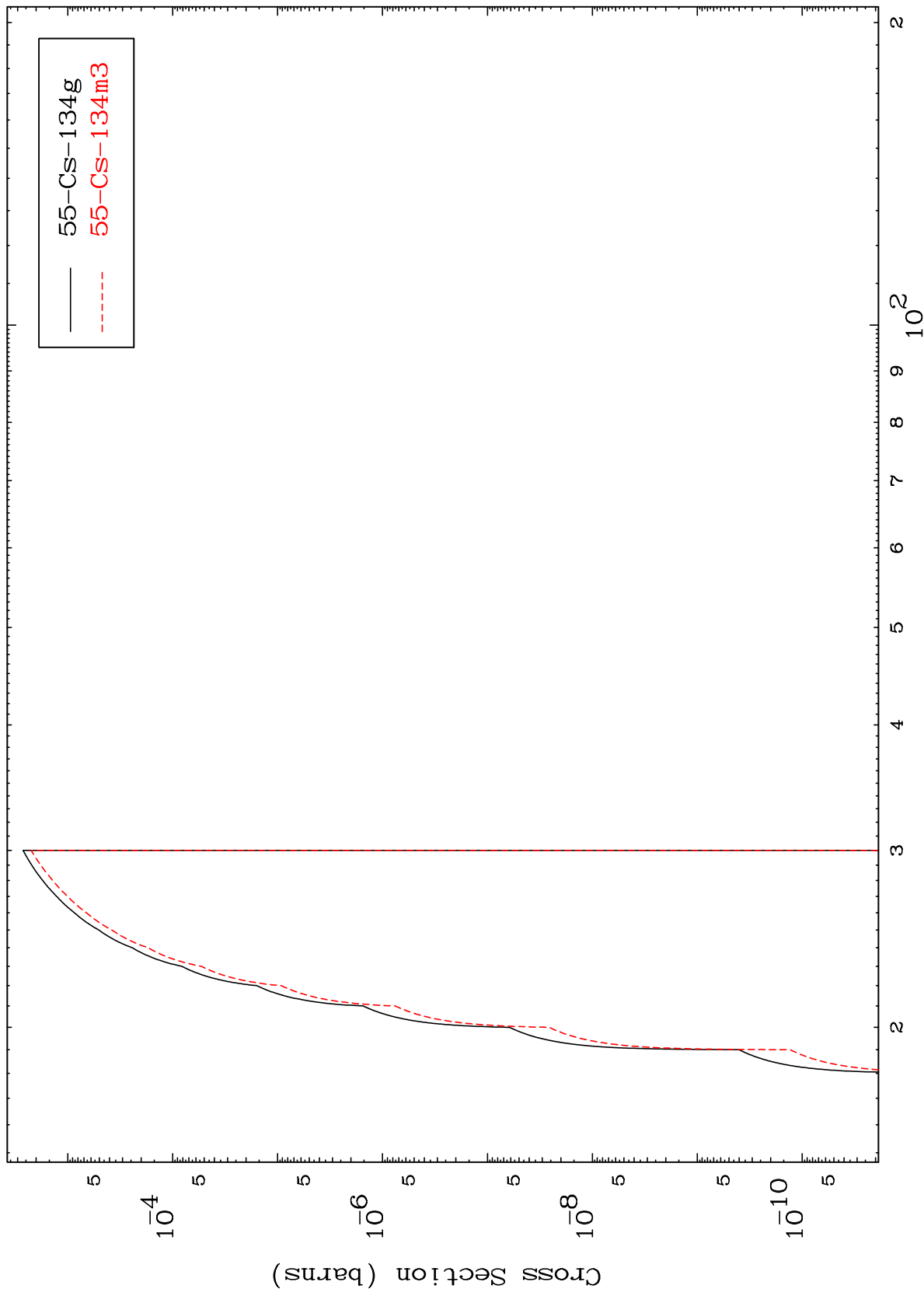


MAT 5647

(n,n') t

56-Ba-137m

Radionuclide Production Cross Section



28

Incident Energy (MeV)

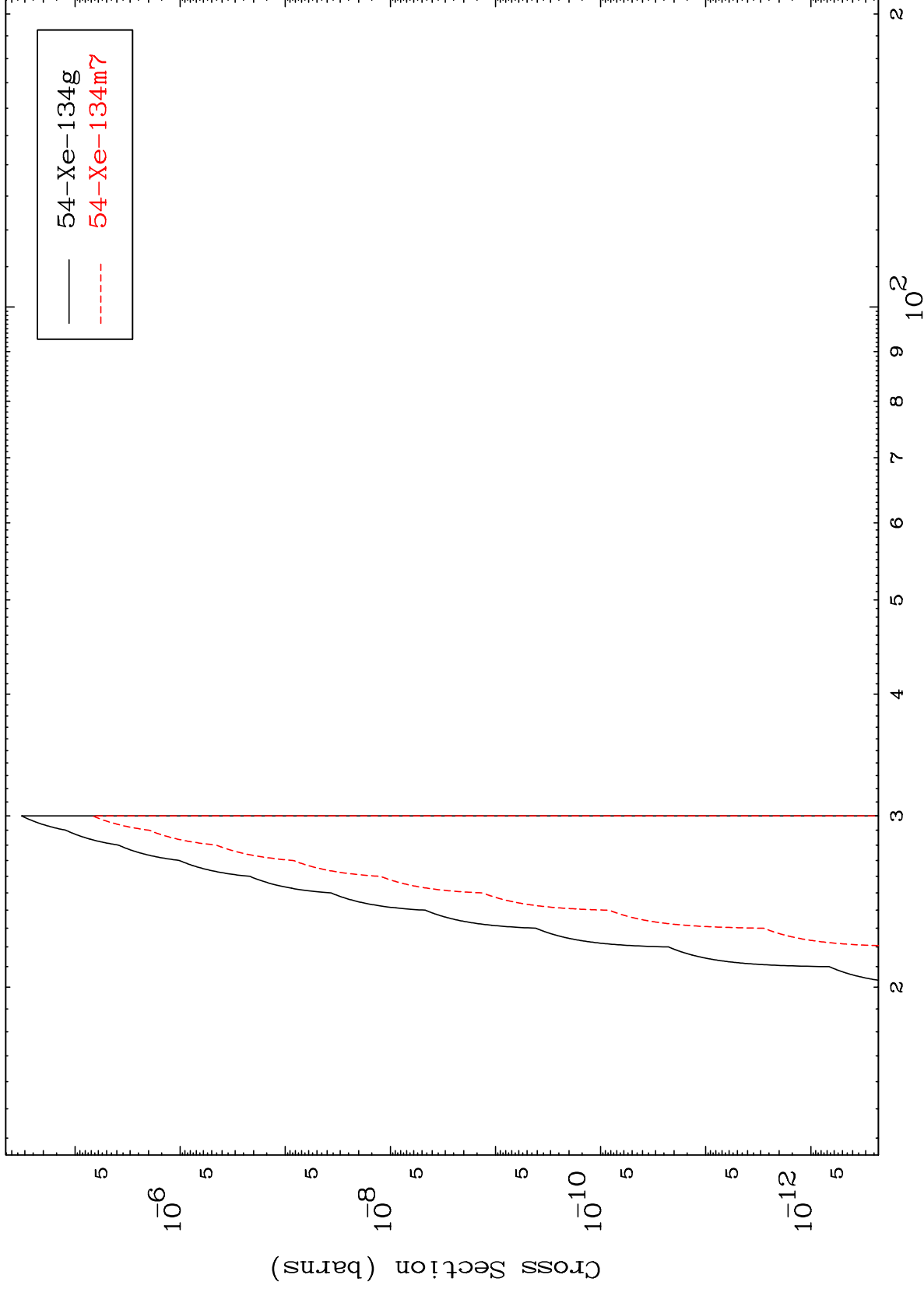
56-Ba-137m

MAT 5647

(n,n') He-3

56-Ba-137m

Radionuclide Production Cross Section



29

Incident Energy (MeV)

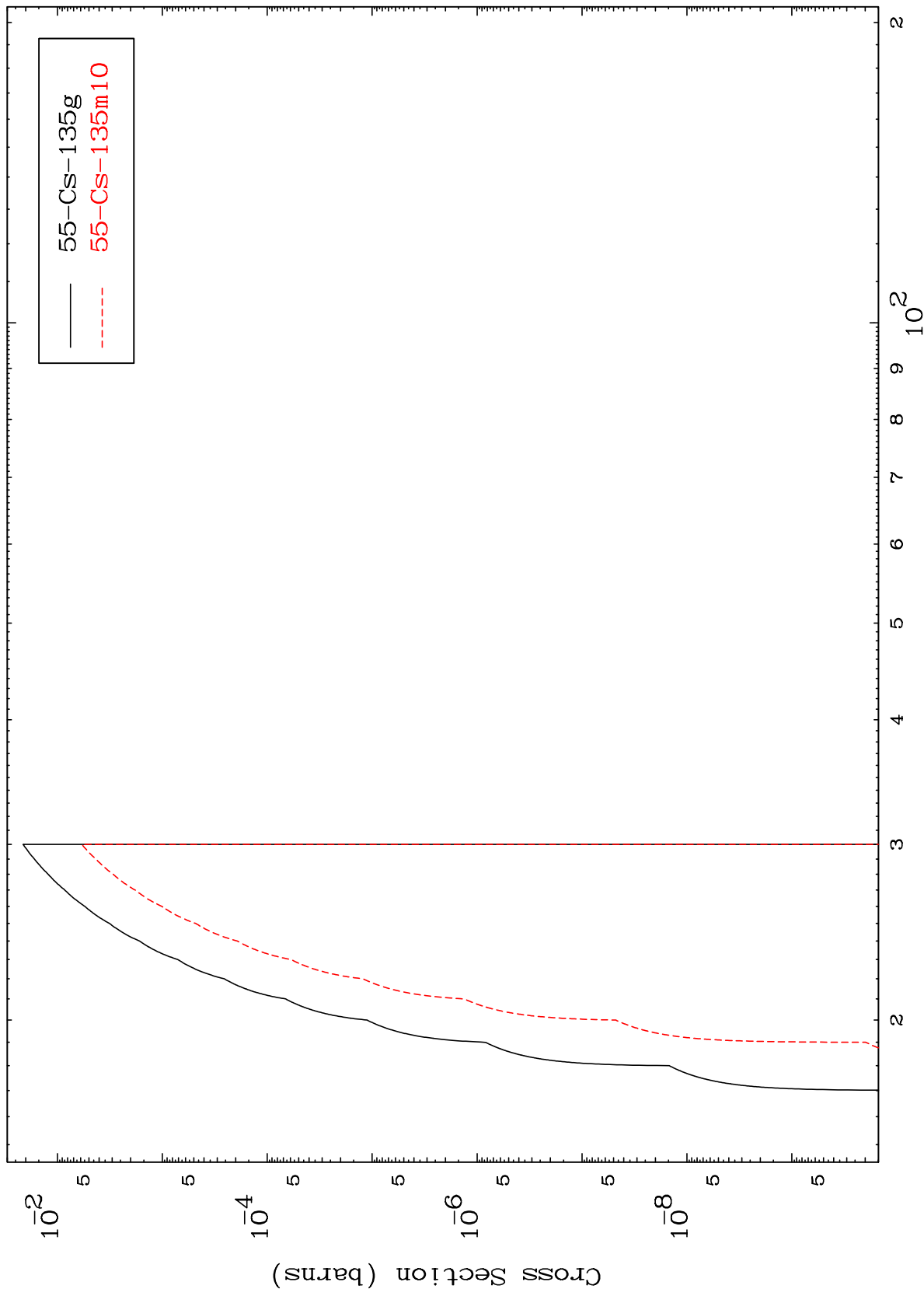
56-Ba-137m

MAT 5647

(n,2n) p

56-Ba-137m

Radionuclide Production Cross Section



30

Incident Energy (MeV)

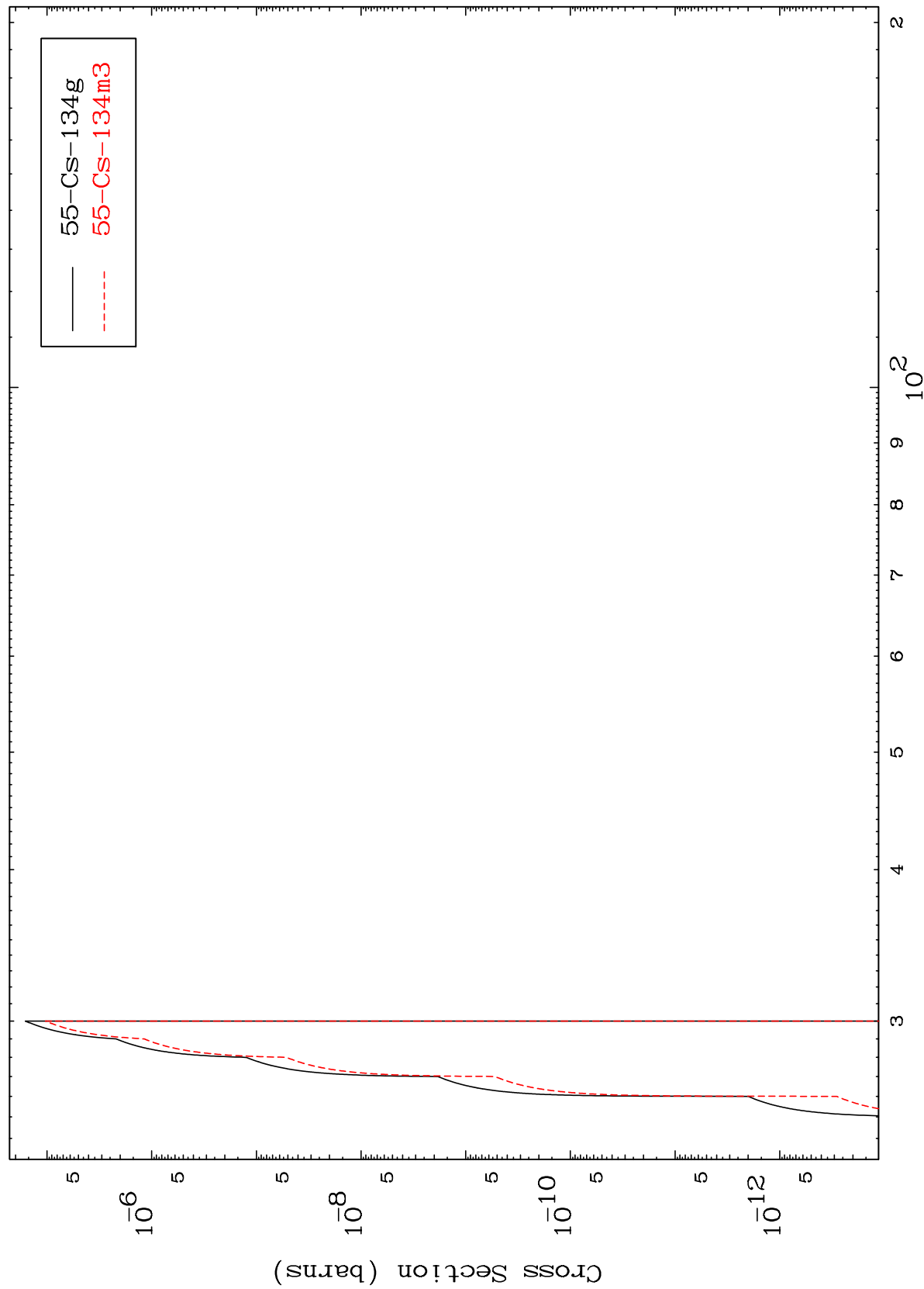
56-Ba-137m

MAT 5647

(n,3n) p

56-Ba-137m

Radionuclide Production Cross Section

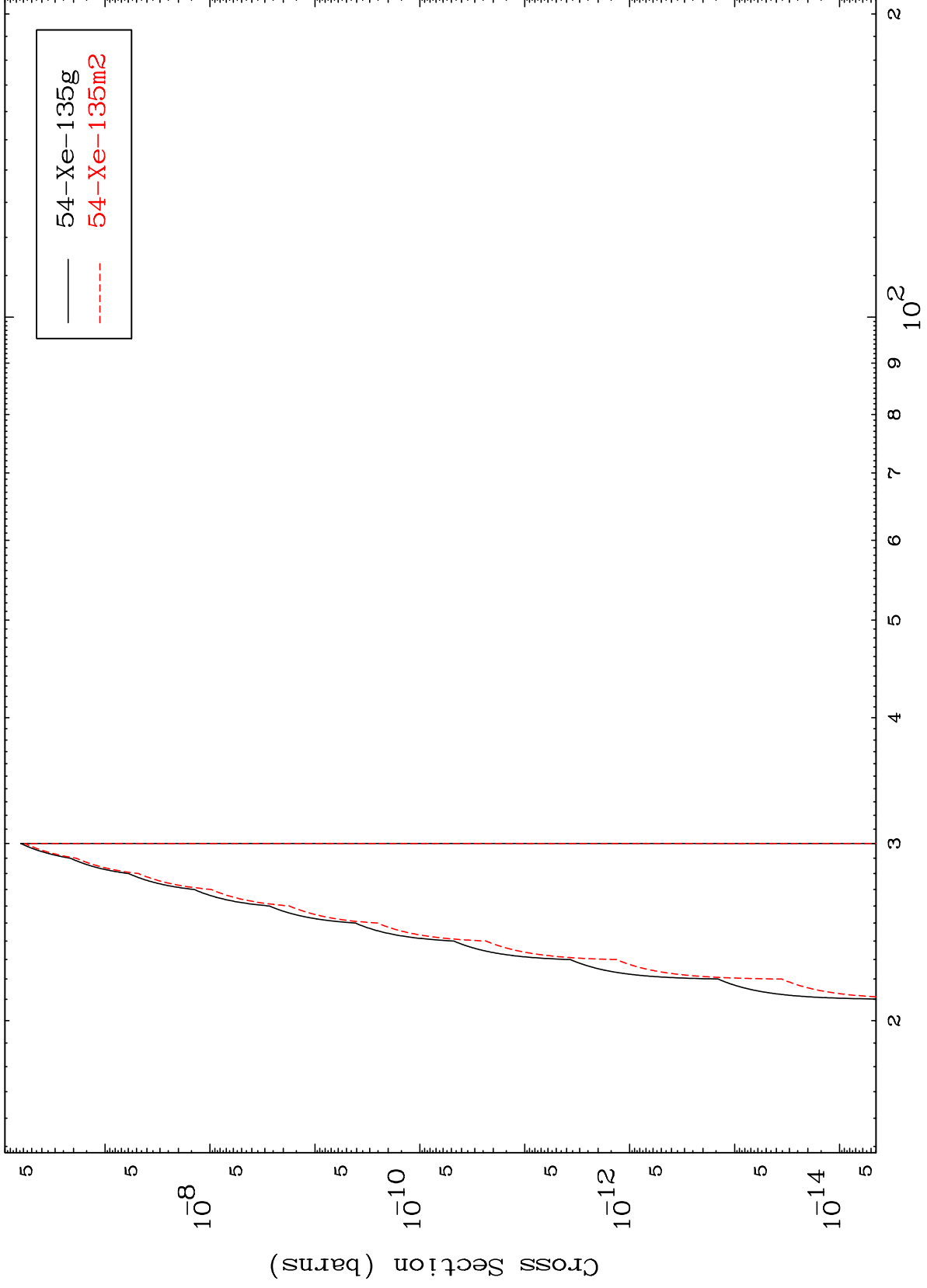


MAT 5647

(n,2n) p

56-Ba-137m

Radionuclide Production Cross Section



32

Incident Energy (MeV)

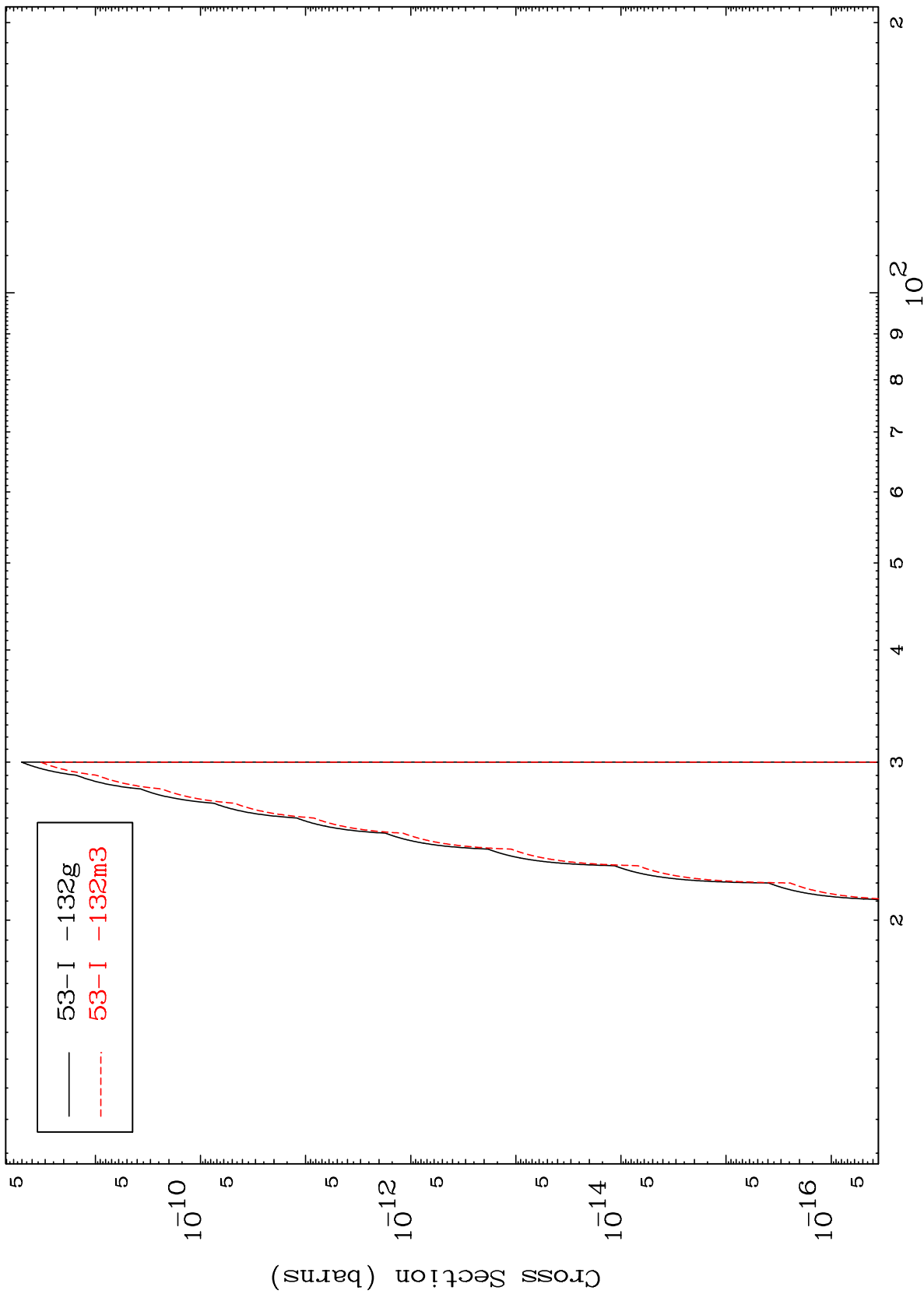
56-Ba-137m

MAT 5647

(n,n') p α

56-Ba-137m

Radionuclide Production Cross Section



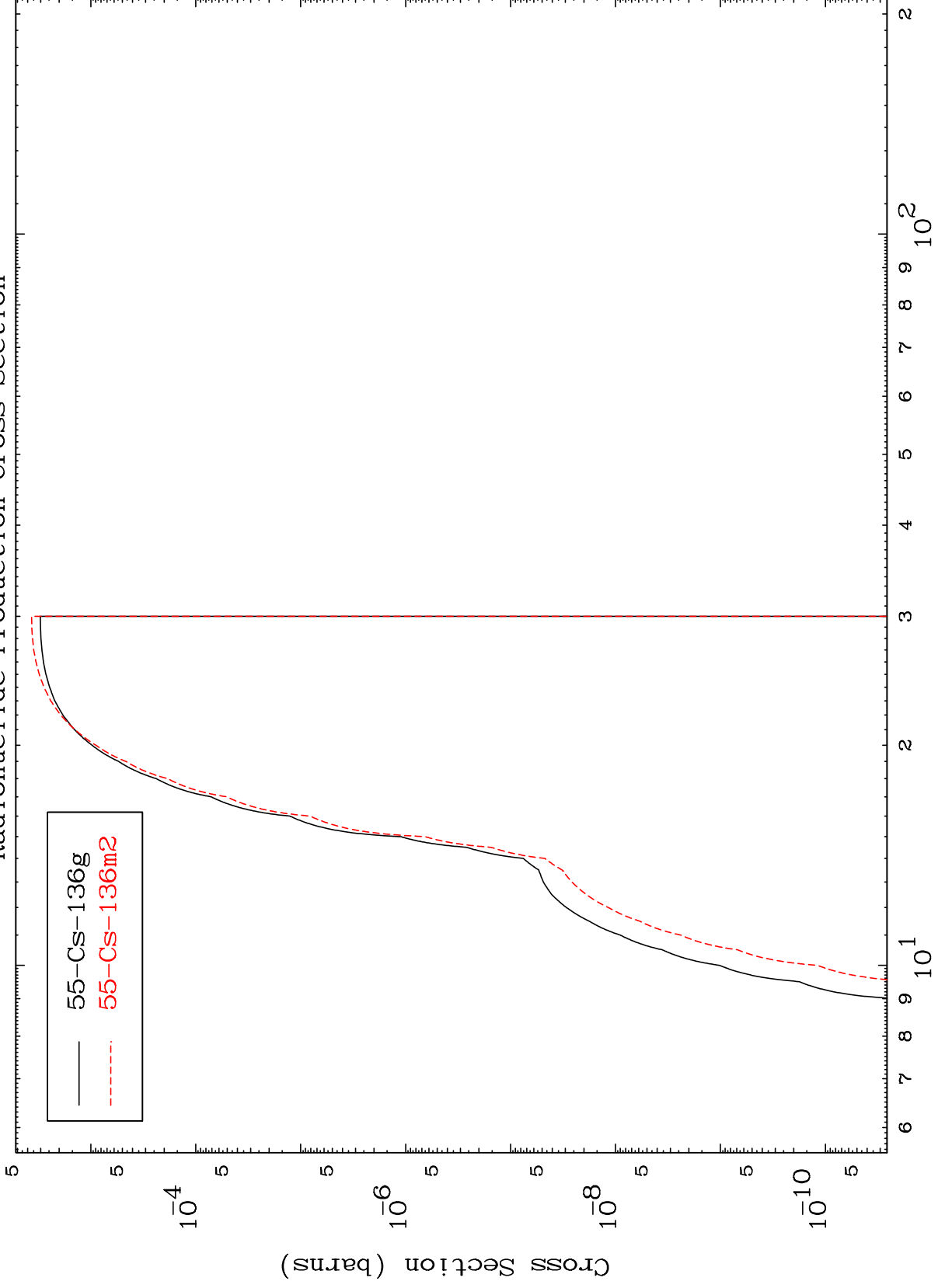
Incident Energy (MeV)

56-Ba-137m

MAT 5647

56-Ba-137m

(n,d)
Radionuclide Production Cross Section



34

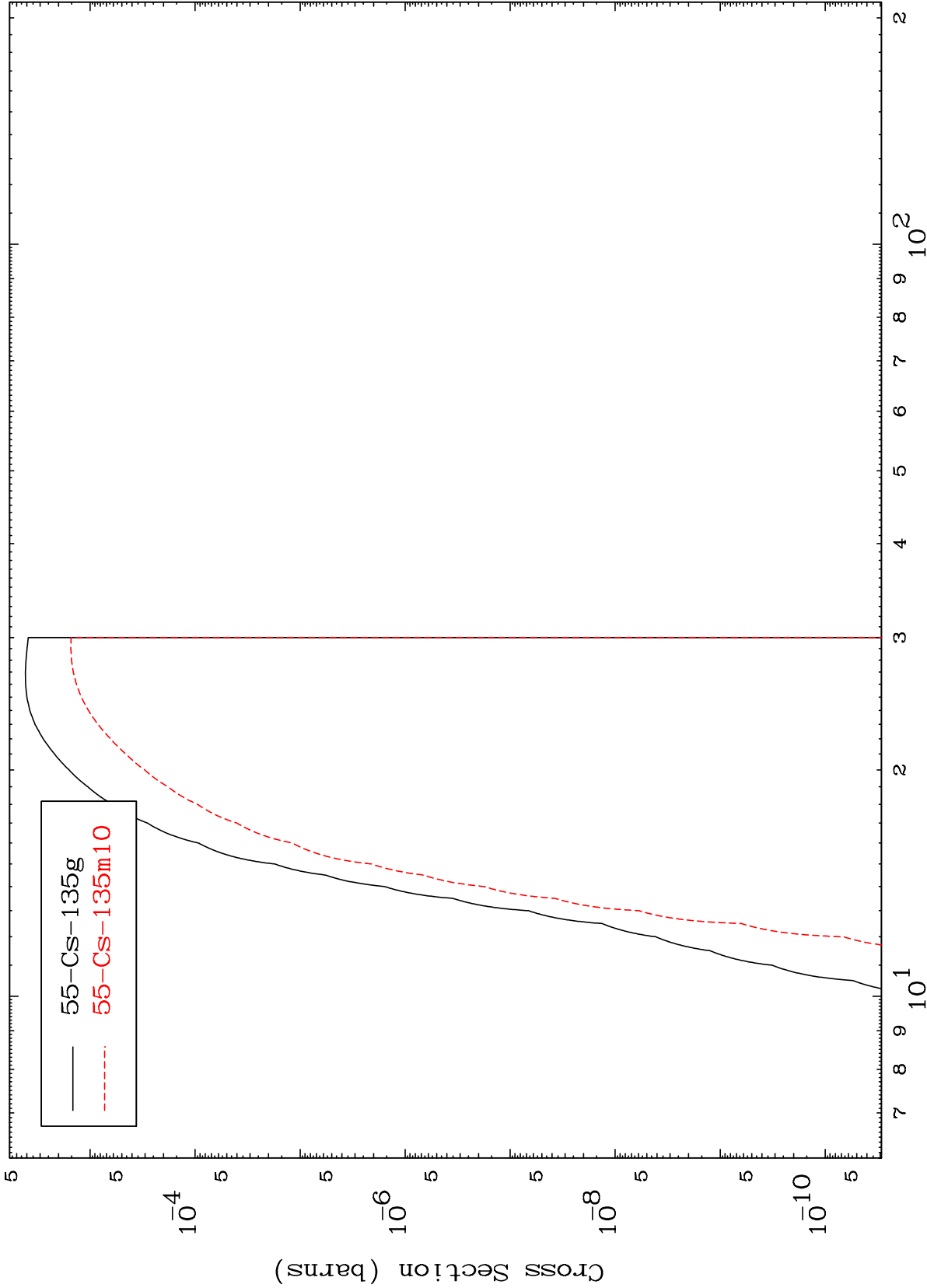
Incident Energy (MeV)

56-Ba-137m

MAT 5647

56-Ba-137m

(n, t)
Radionuclide Production Cross Section



35

Incident Energy (MeV)

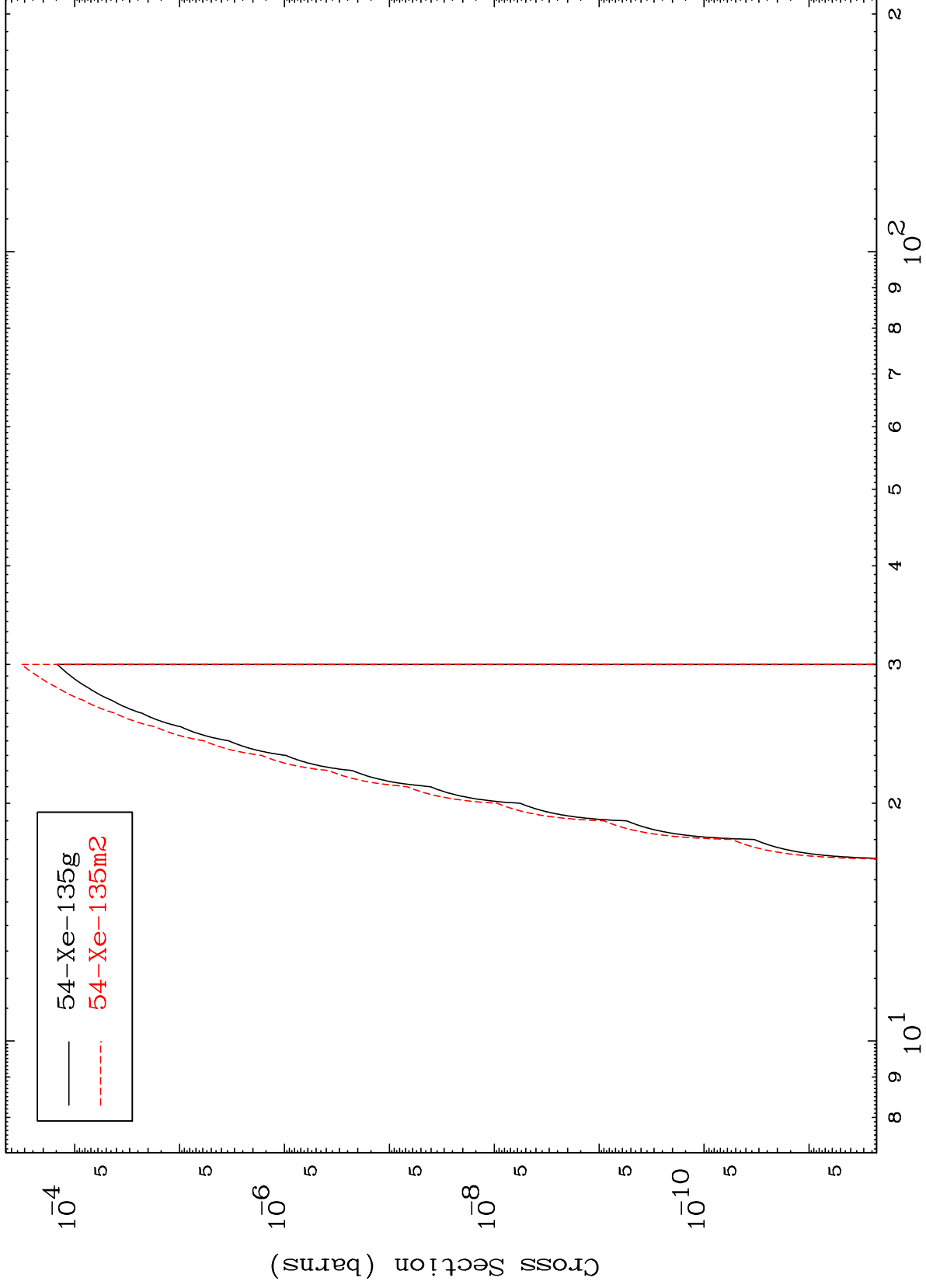
56-Ba-137m

MAT 5647

(n,He-3)

56-Ba-137m

Radionuclide Production Cross Section



36

Incident Energy (MeV)

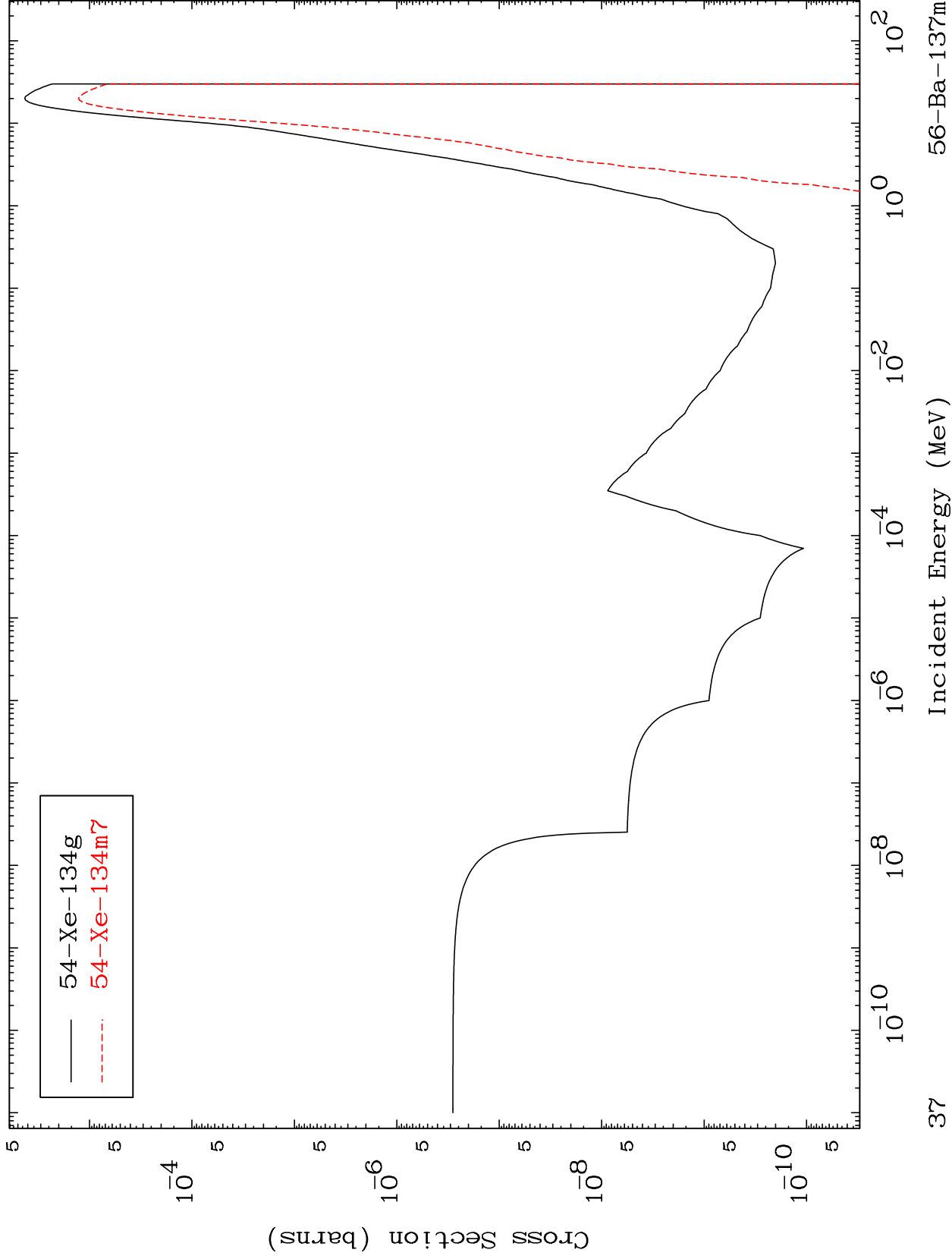
56-Ba-137m

MAT 5647

(n, α)

56-Ba-137m

Radionuclide Production Cross Section

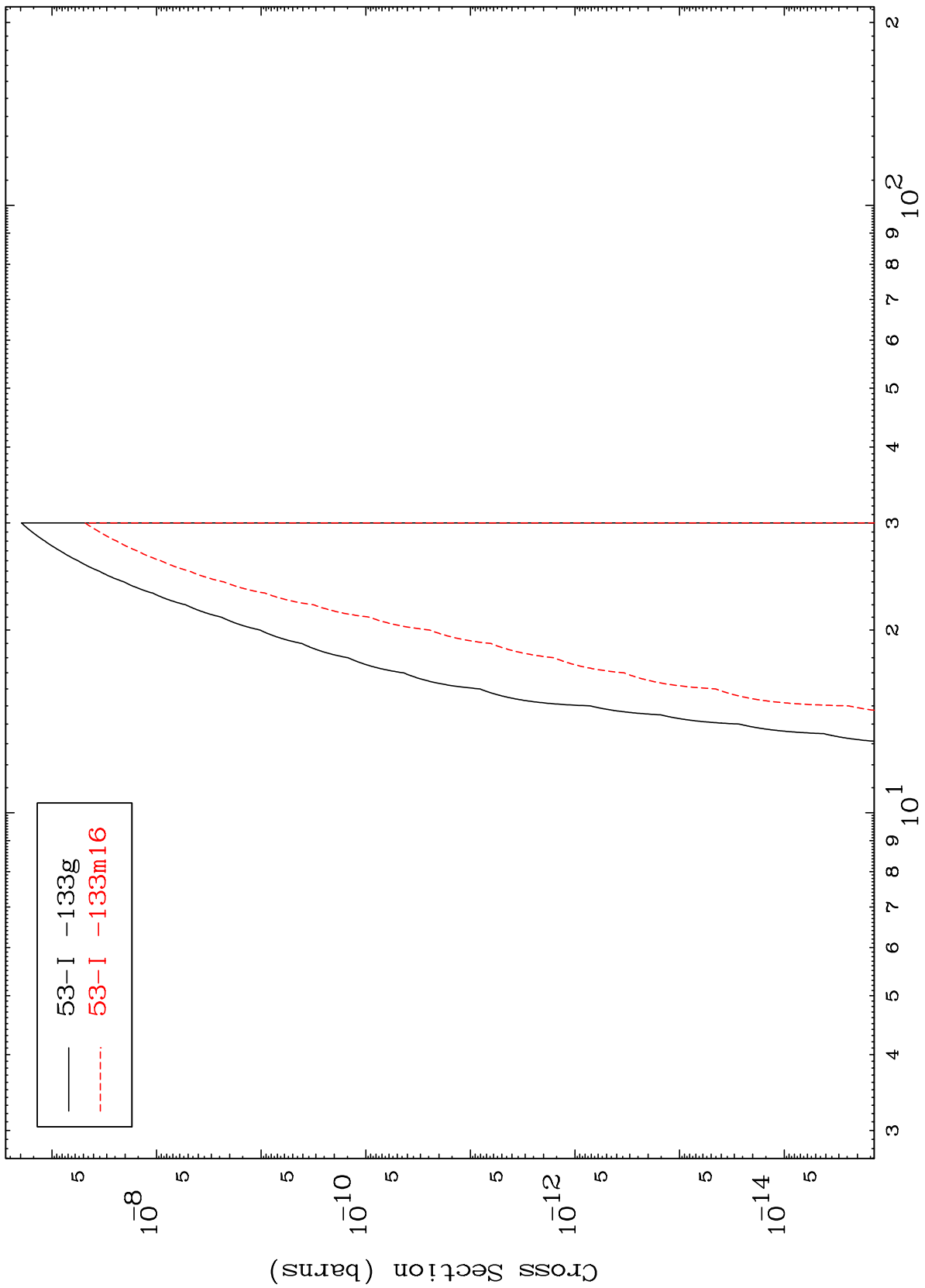


MAT 5647

(n,p) α

56-Ba-137m

Radionuclide Production Cross Section



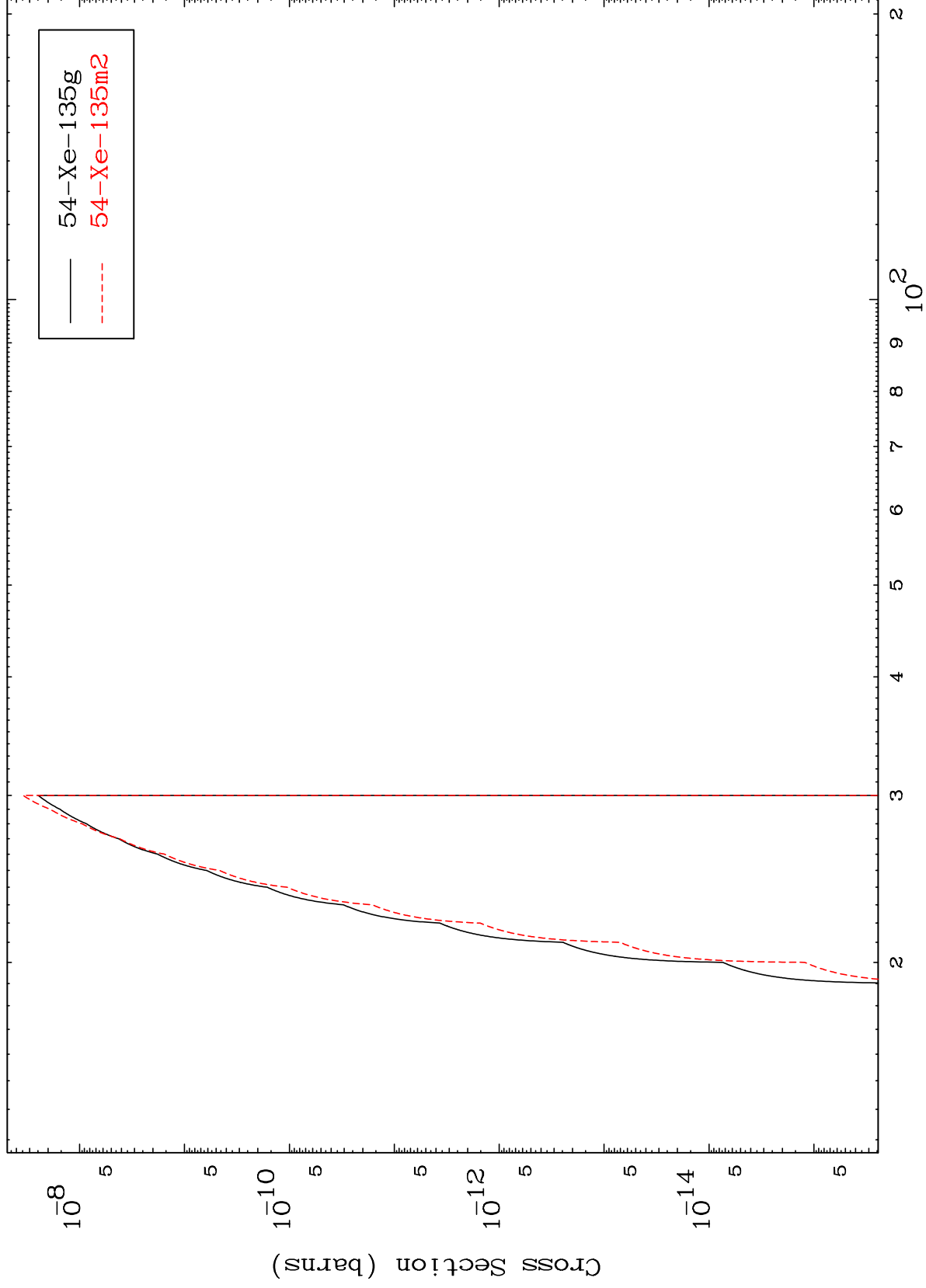
53-I -133g
53-I -133m16

MAT 5647

(n,p) d

56-Ba-137m

Radionuclide Production Cross Section



39

Incident Energy (MeV)

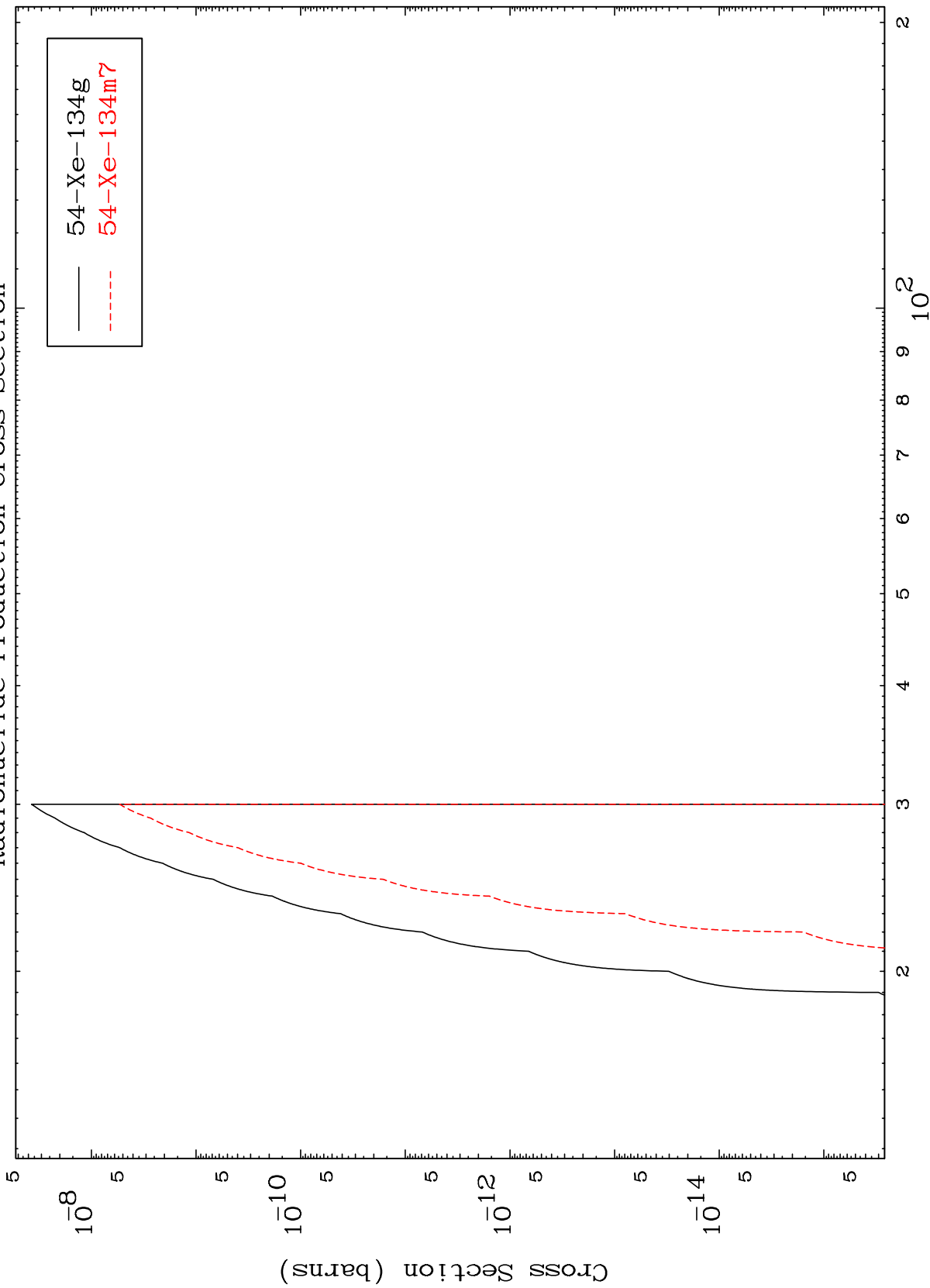
56-Ba-137m

MAT 5647

(n,p) t

56-Ba-137m

Radionuclide Production Cross Section



40

Incident Energy (MeV)

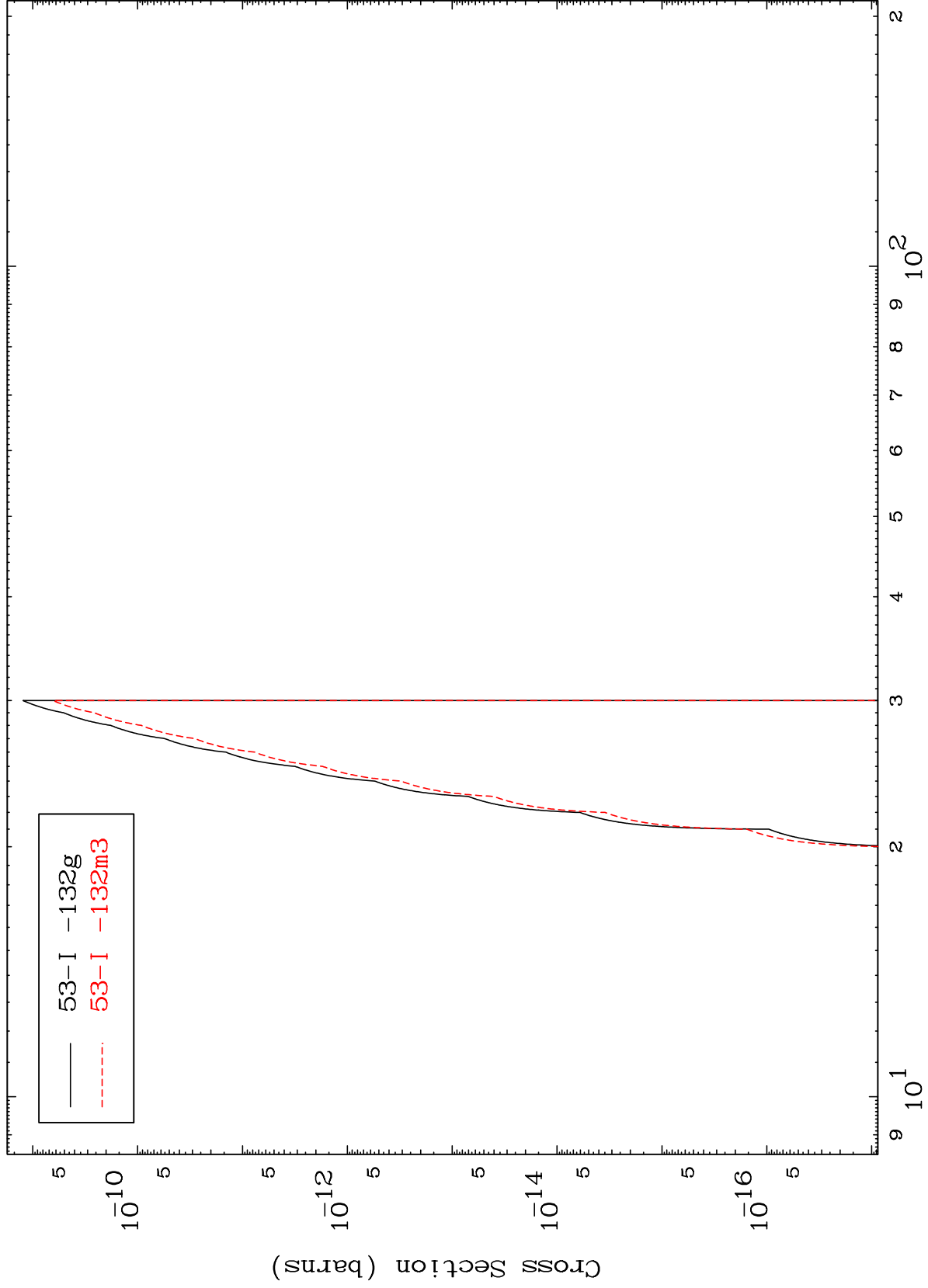
56-Ba-137m

MAT 5647

(n,d) α

56-Ba-137m

Radionuclide Production Cross Section



41

Incident Energy (MeV)

56-Ba-137m