

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

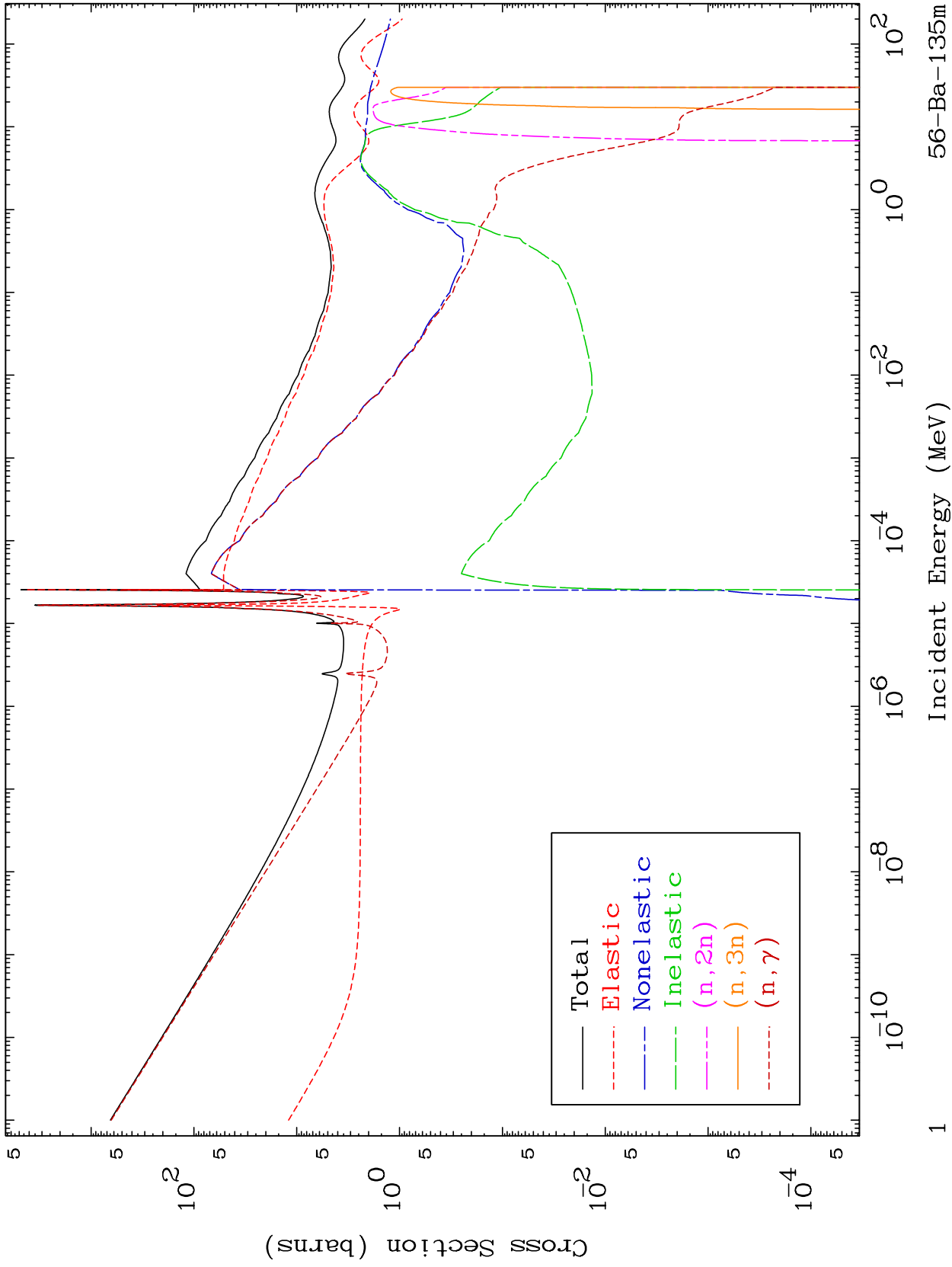
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5641

Neutron Major
293 Kelvin Cross Sections

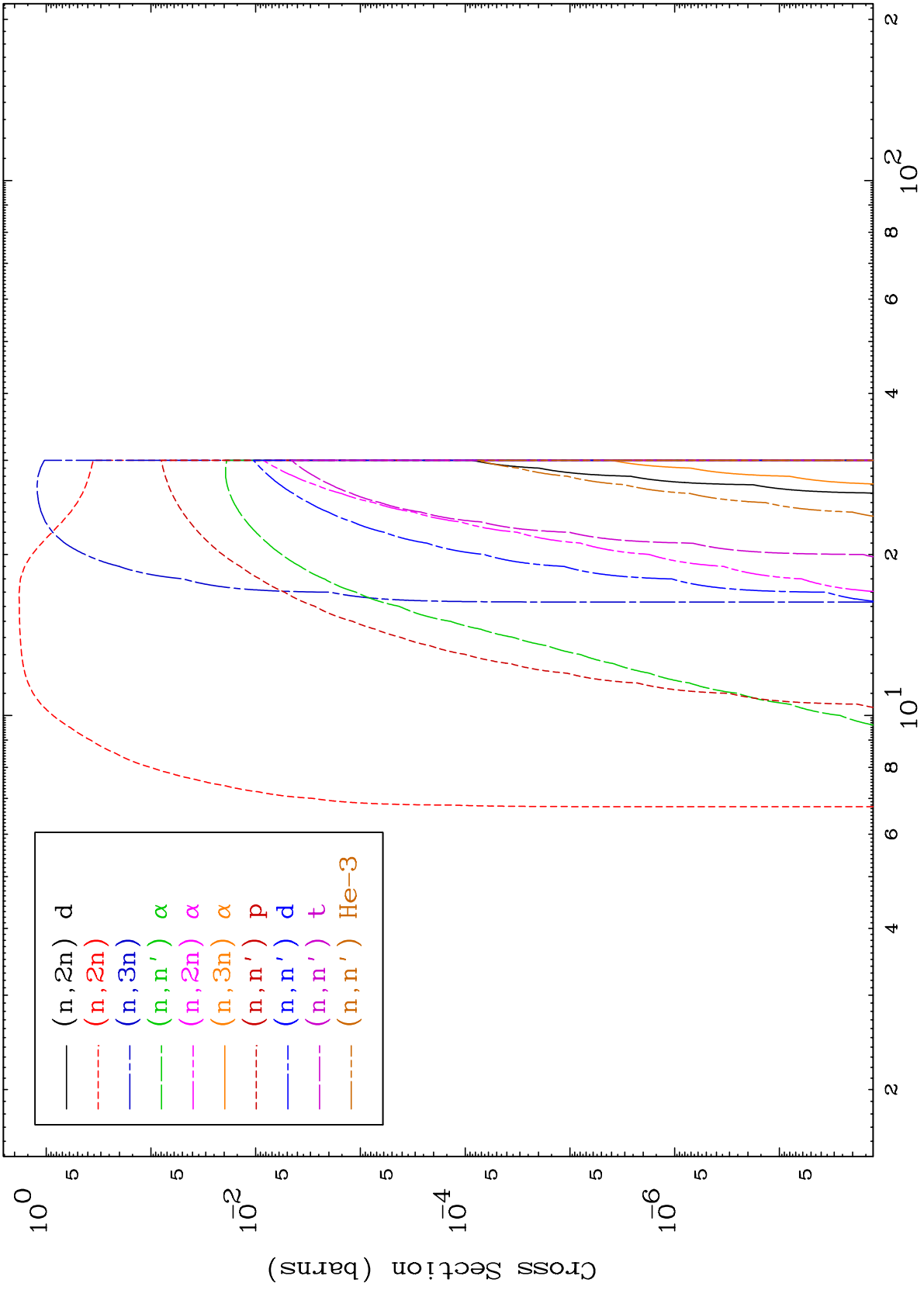
56-Ba-135m



MAT 5641

Neutron Absorption
293 Kelvin Cross Sections

56-Ba-135m



2

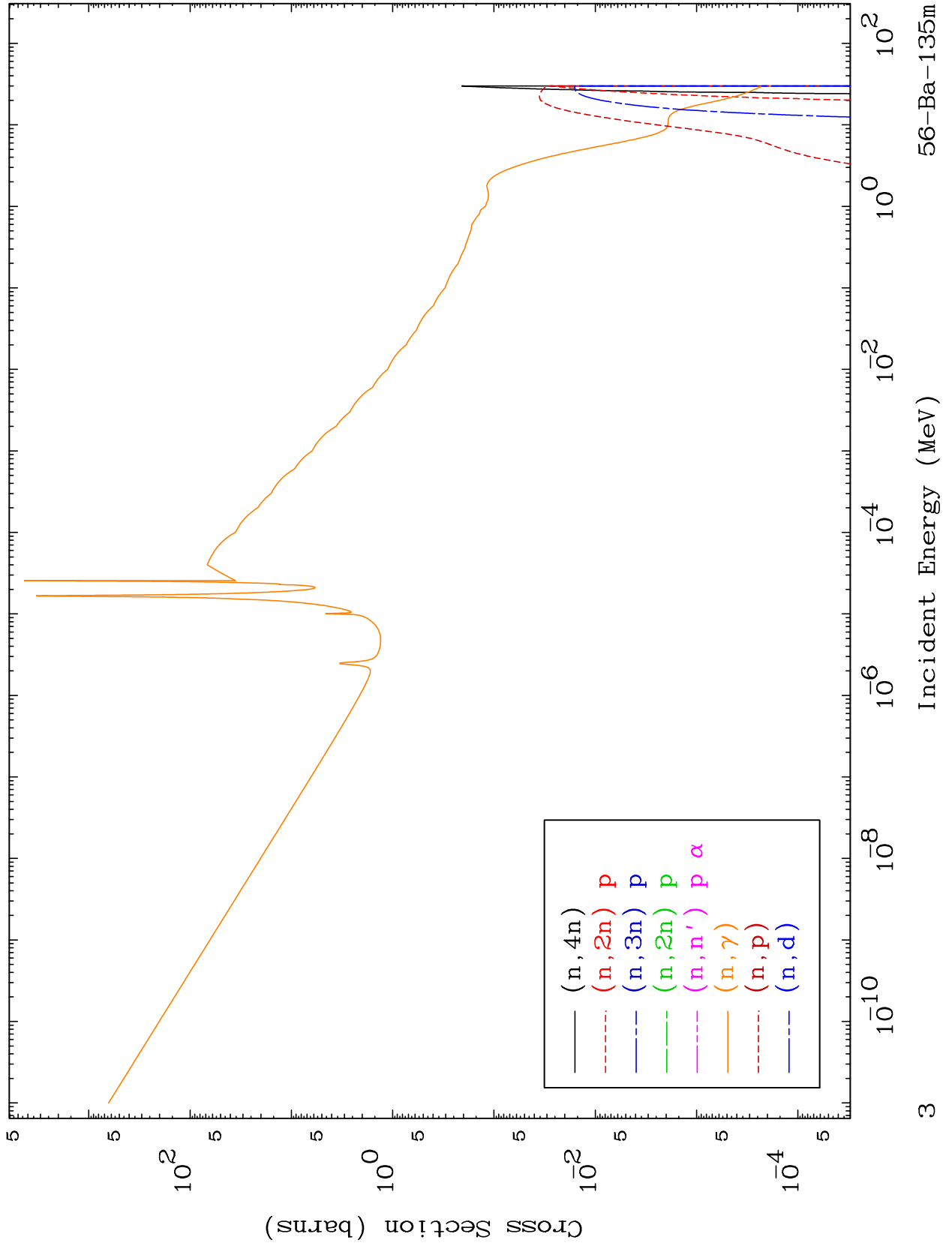
Incident Energy (MeV)

56-Ba-135m

MAT 5641

Neutron Absorption
293 Kelvin Cross Sections

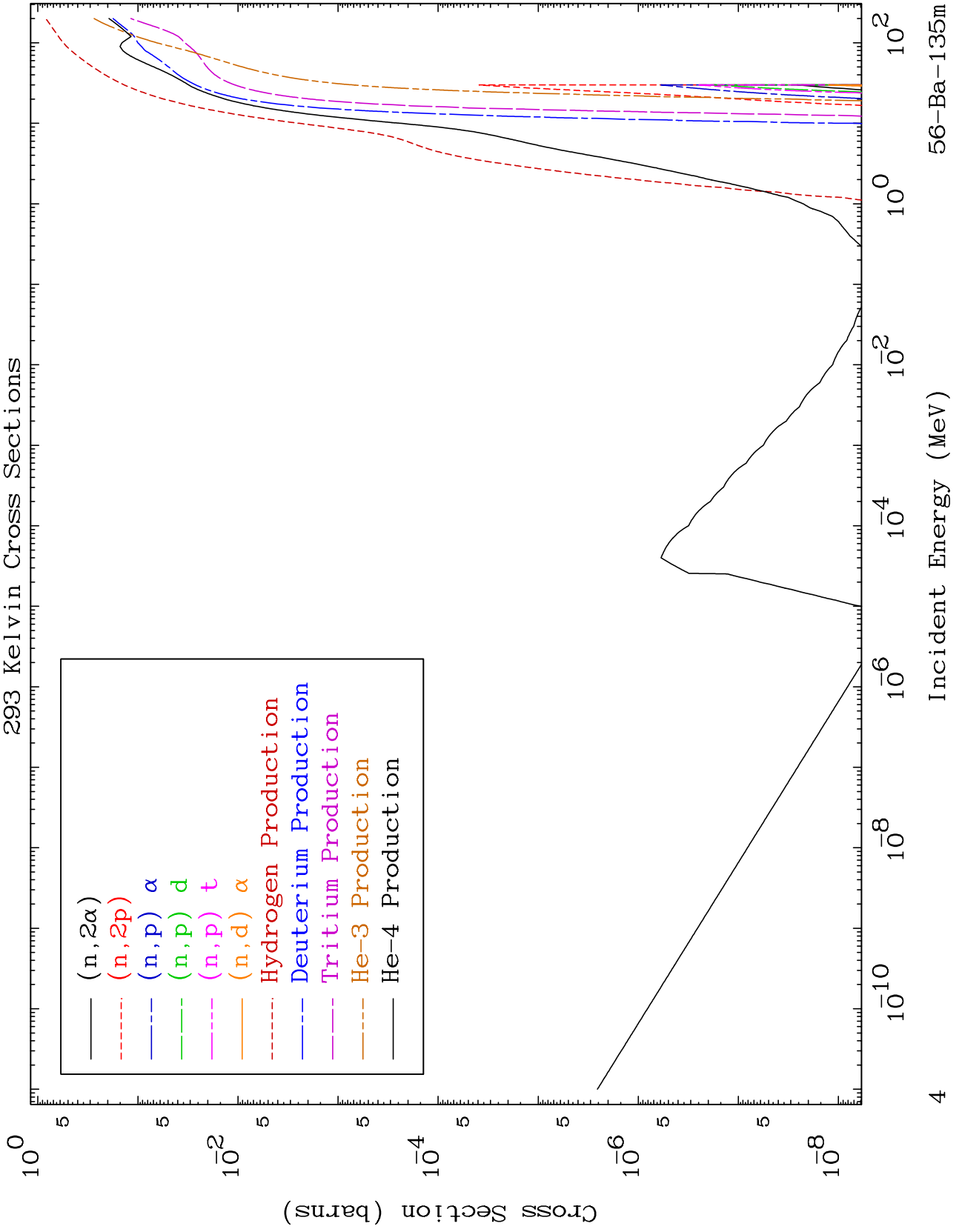
56-Ba-135m



MAT 5641

Neutron Absorption
293 Kelvin Cross Sections

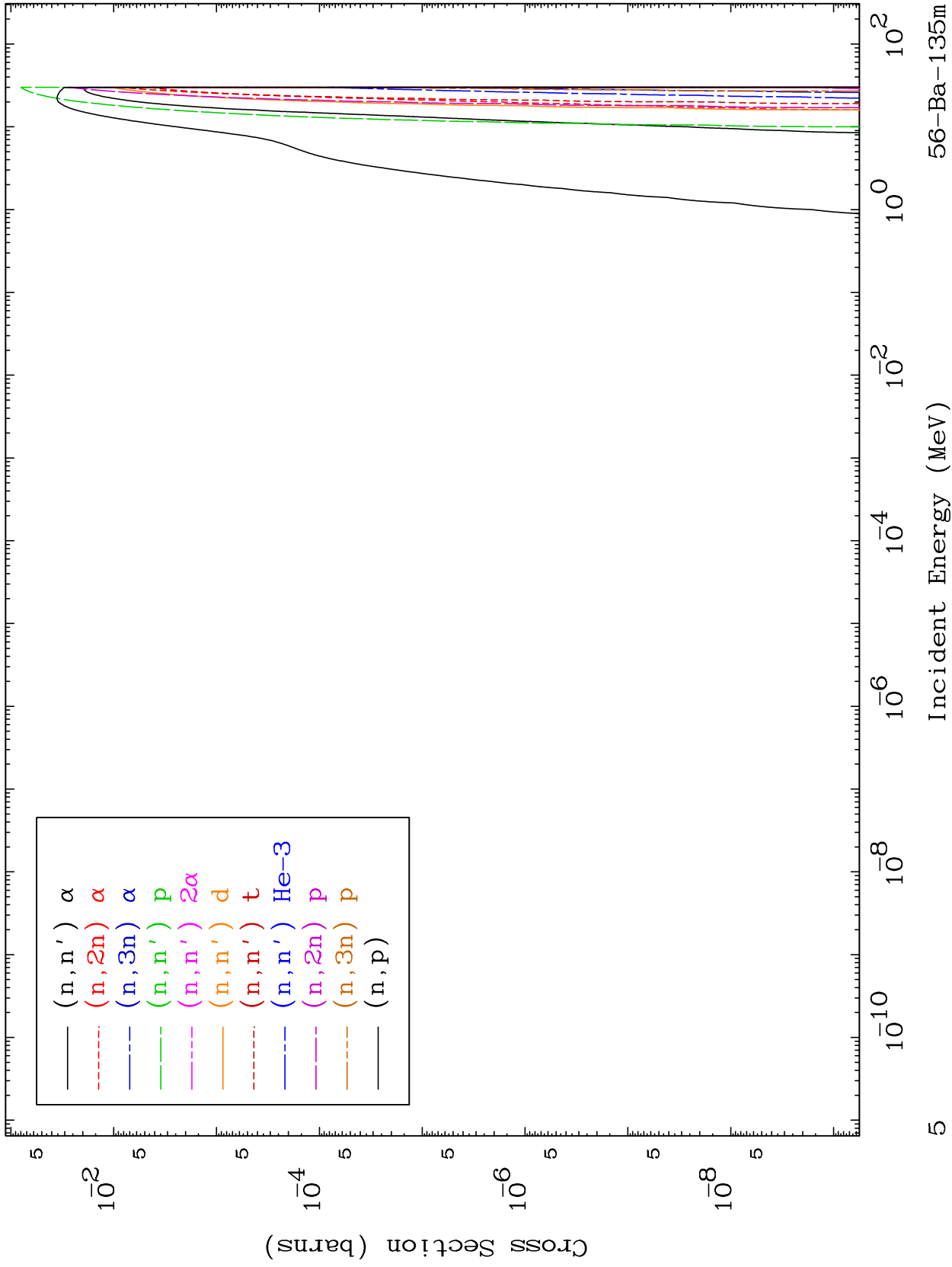
56-Ba-135m



MAT 5641

Charged Particle
293 Kelvin Cross Sections

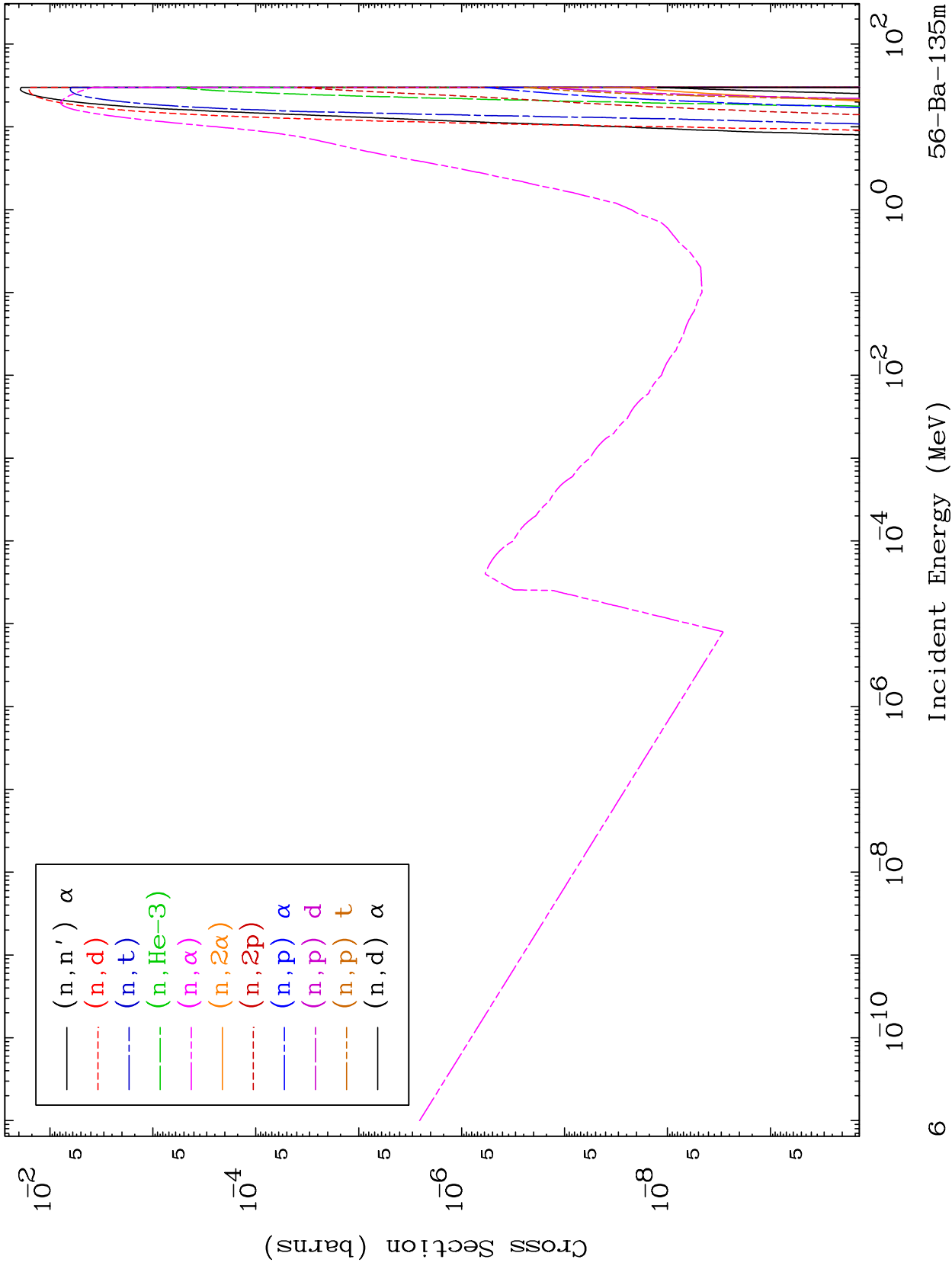
56-Ba-135m



MAT 5641

Charged Particle
293 Kelvin Cross Sections

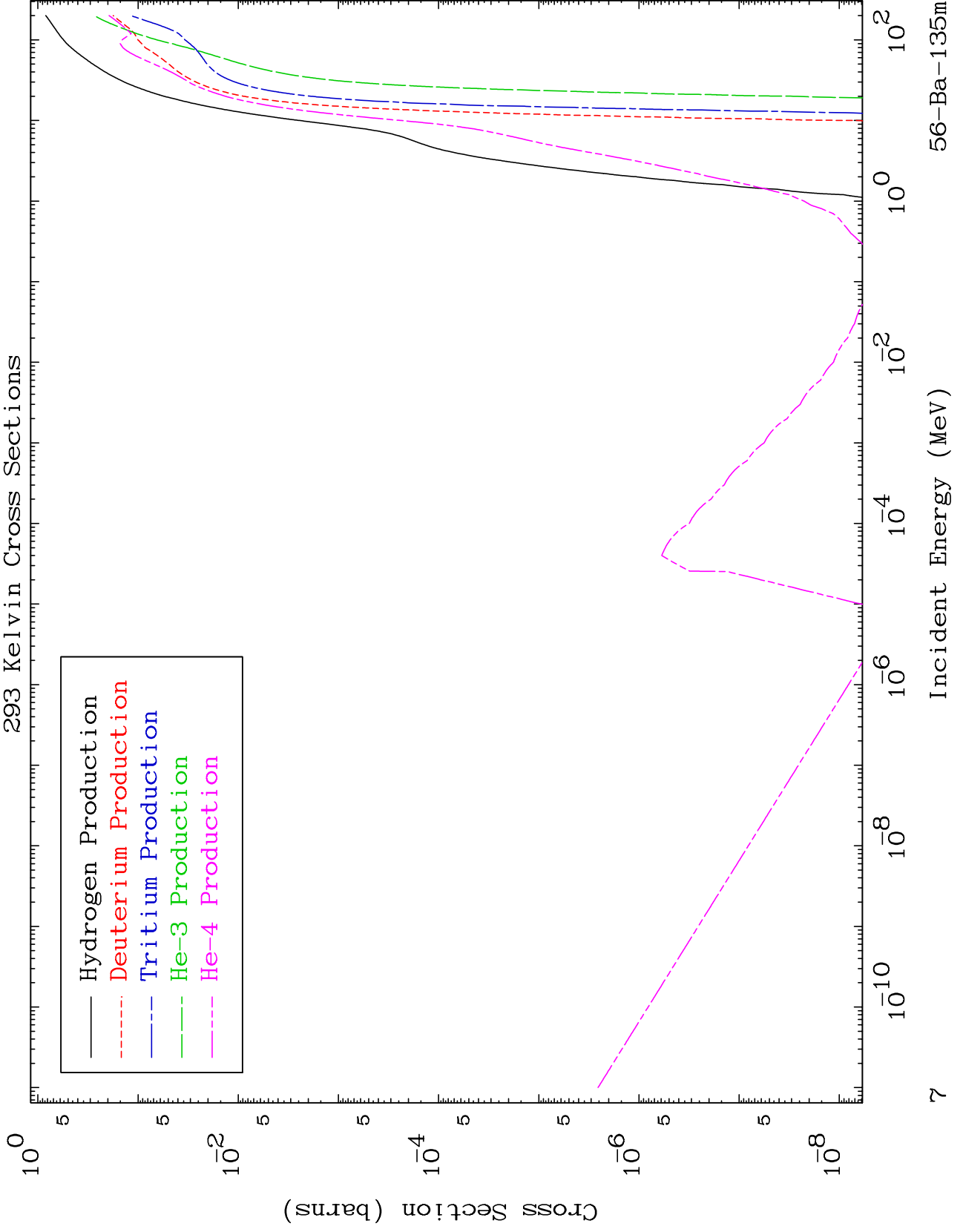
56-Ba-135m



MAT 5641

Particle Production
293 Kelvin Cross Sections

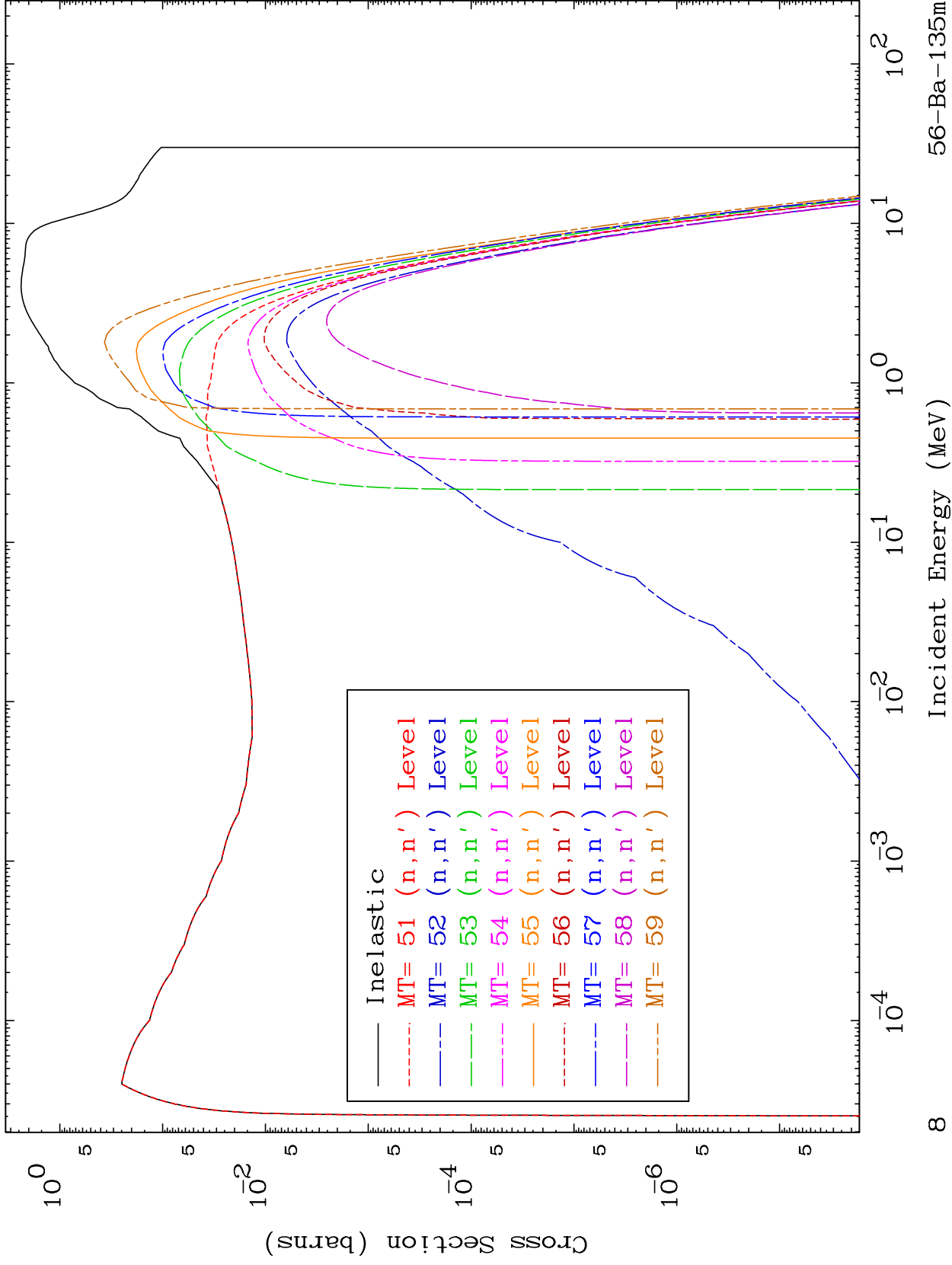
56-Ba-135m



MAT 5641

(n,n') Levels
293 Kelvin Cross Sections

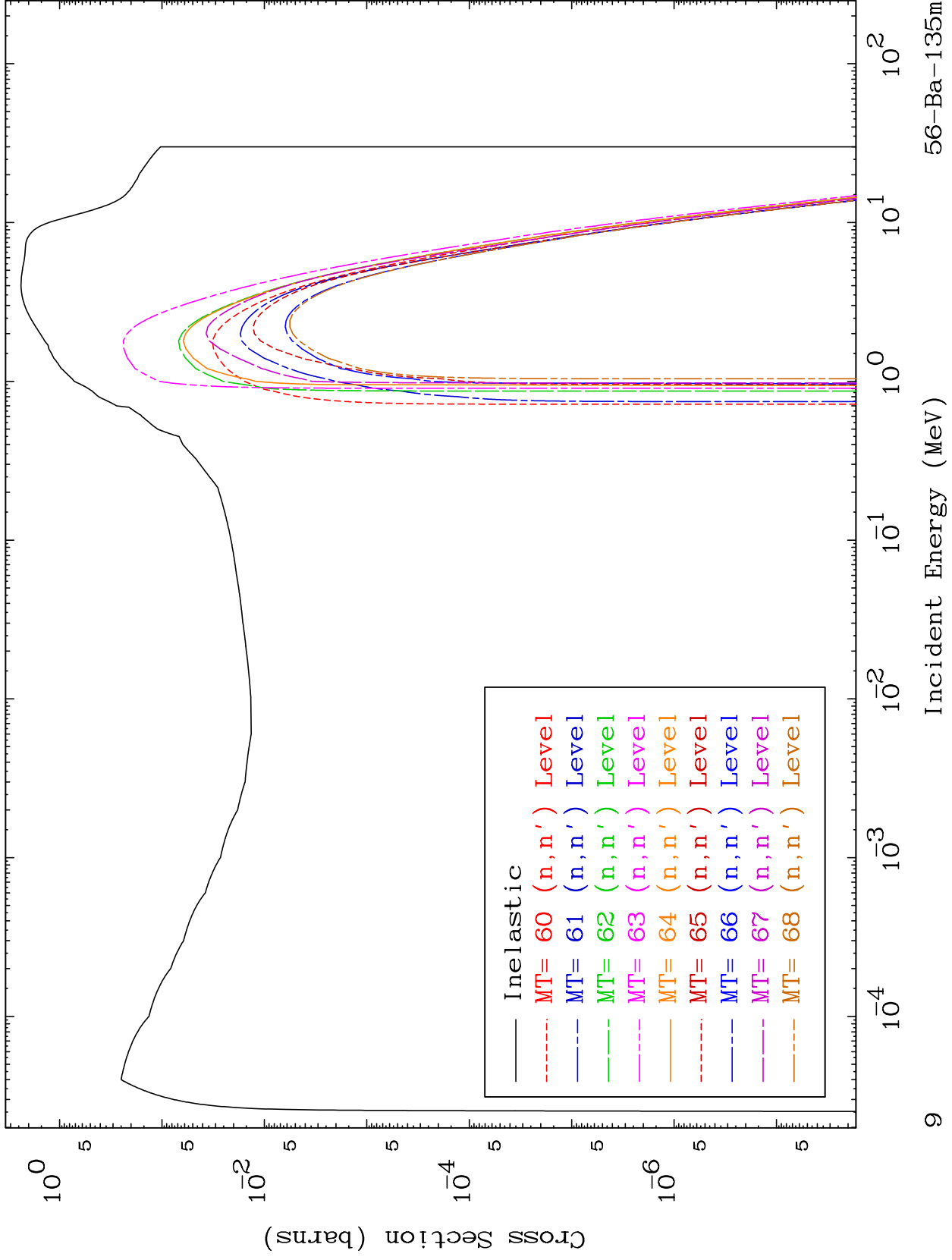
56-Ba-135m



MAT 5641

(n,n') Levels
293 Kelvin Cross Sections

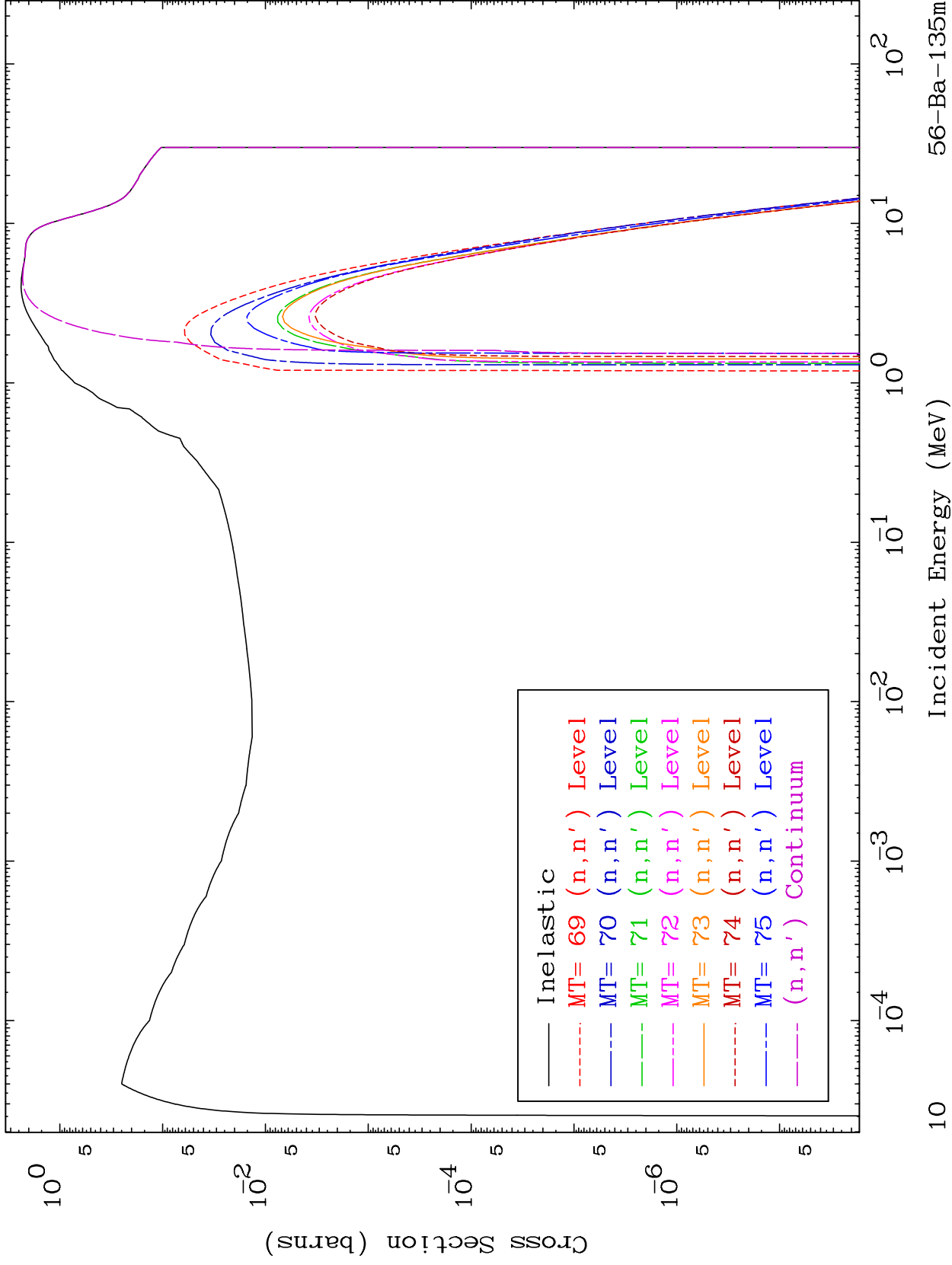
56-Ba-135m



MAT 5641

(n,n') Levels
293 Kelvin Cross Sections

56-Ba-135m



10

10^{-4}

10^{-3}

10^{-2}

10^{-1}

10^0

10^1

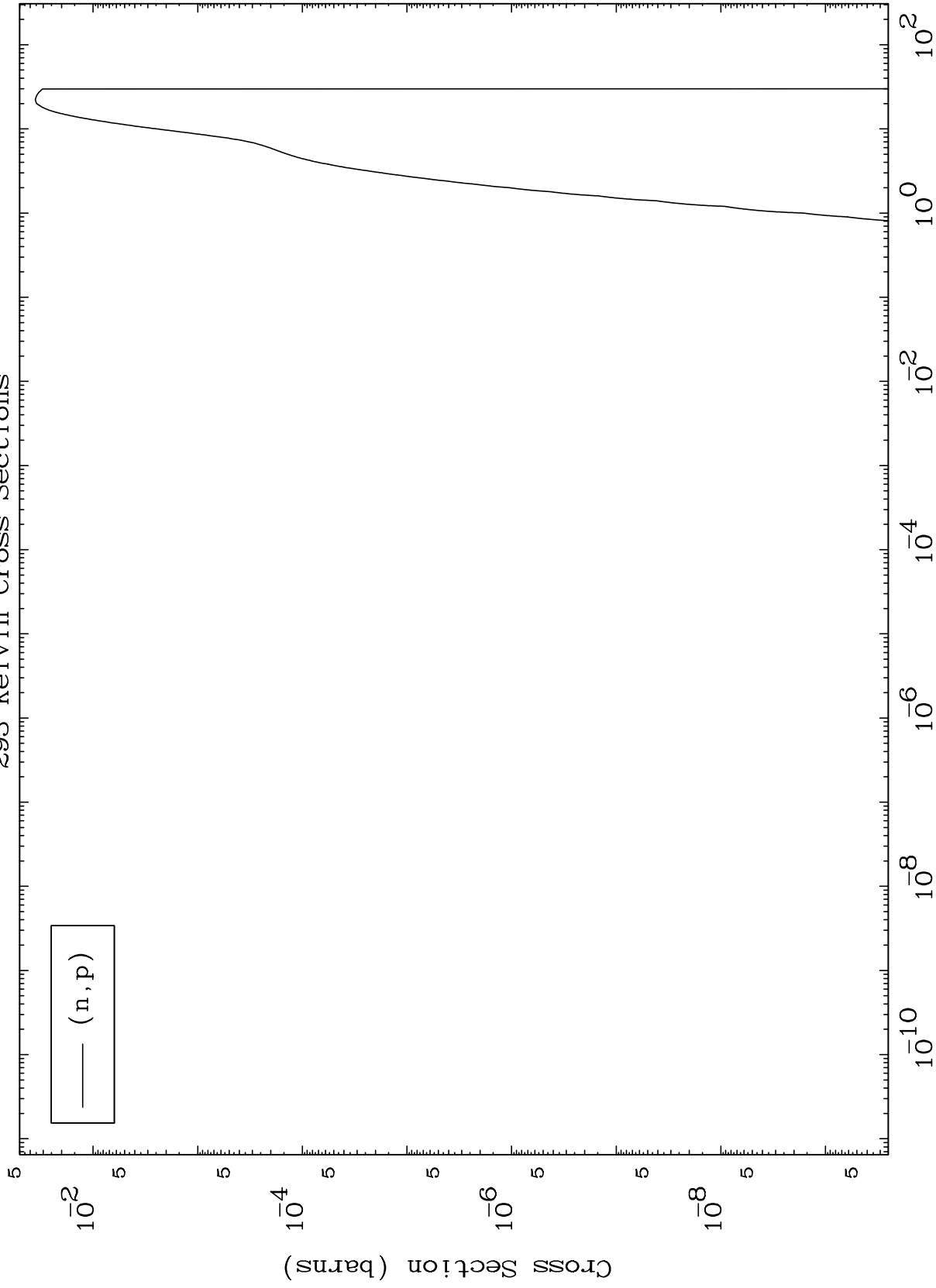
10^2

56-Ba-135m

MAT 5641

(n,p) Levels
293 Kelvin Cross Sections

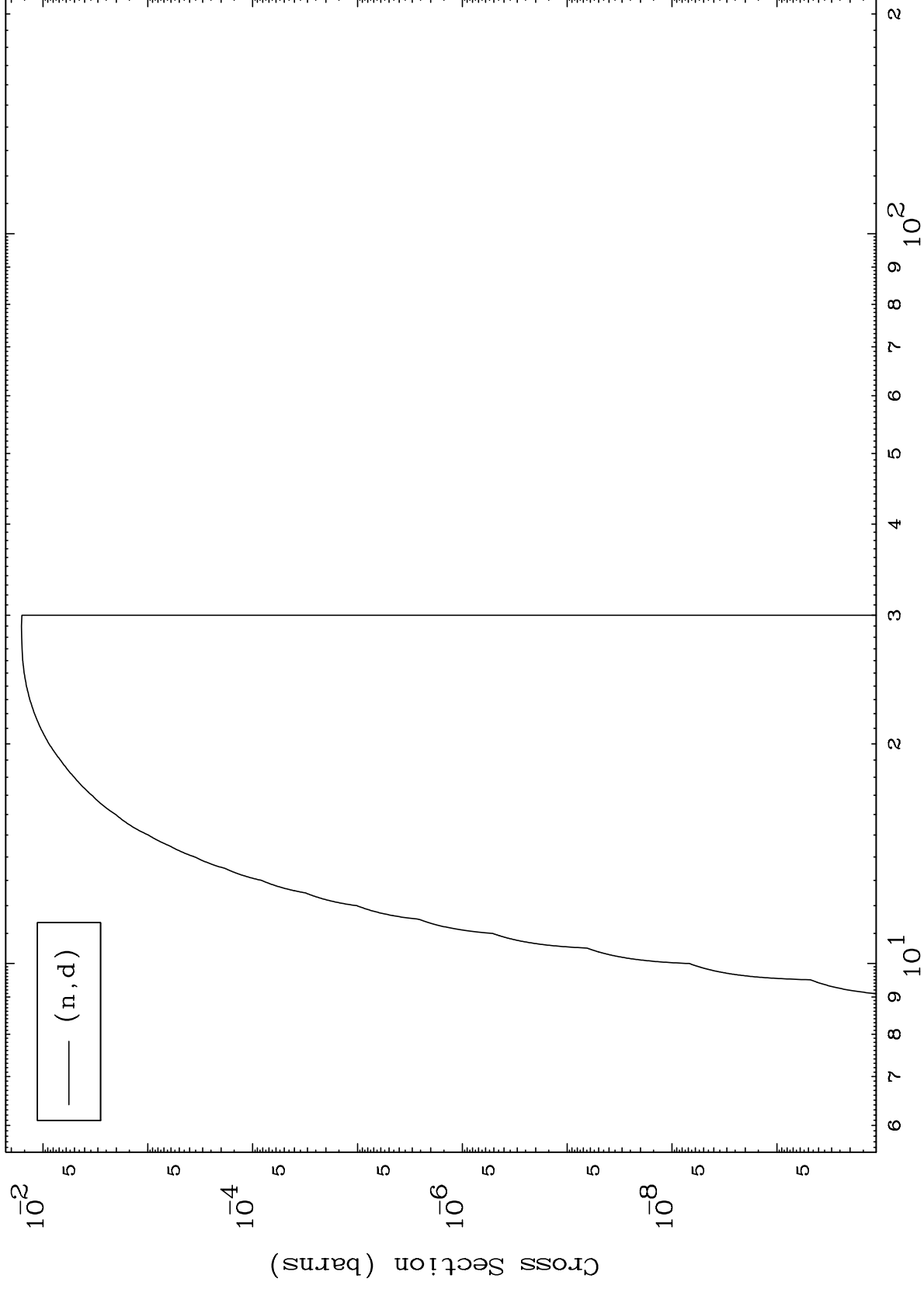
56-Ba-135m



MAT 5641

(n,d) Levels
293 Kelvin Cross Sections

56-Ba-135m



12

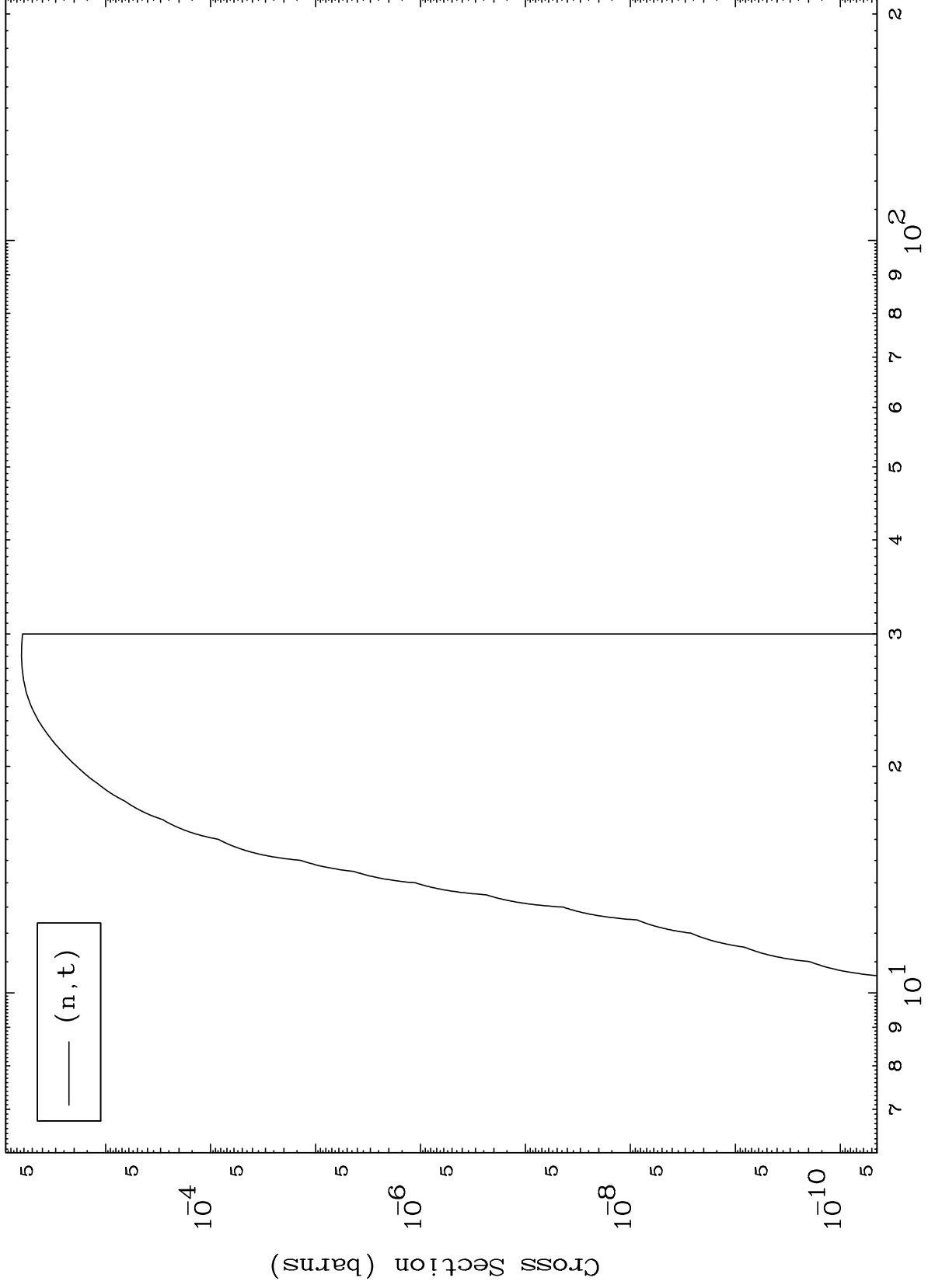
Incident Energy (MeV)

56-Ba-135m

MAT 5641

(n,t) Levels
293 Kelvin Cross Sections

56-Ba-135m



13

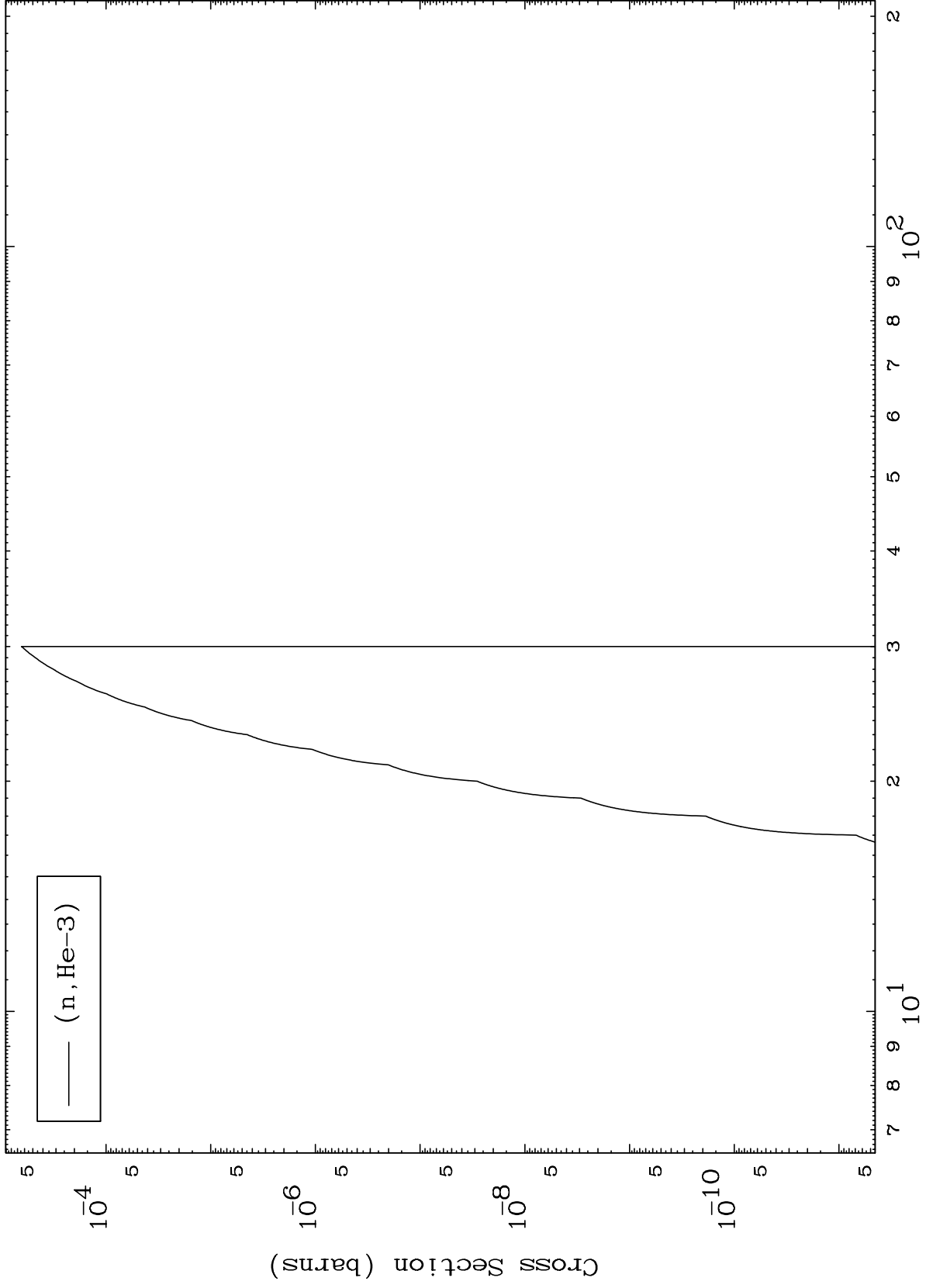
Incident Energy (MeV)

56-Ba-135m

MAT 5641

(n,He3) Levels
293 Kelvin Cross Sections

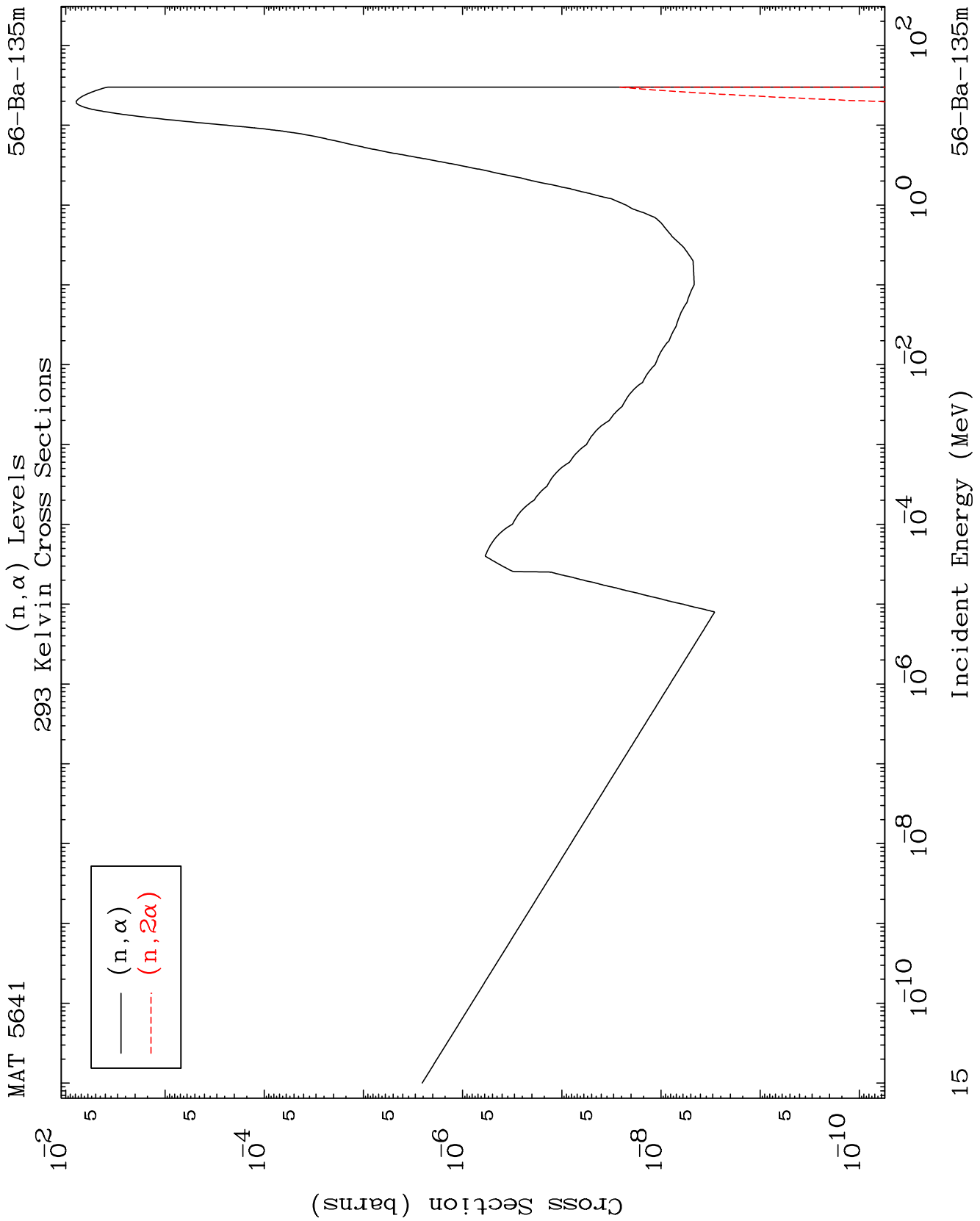
56-Ba-135m

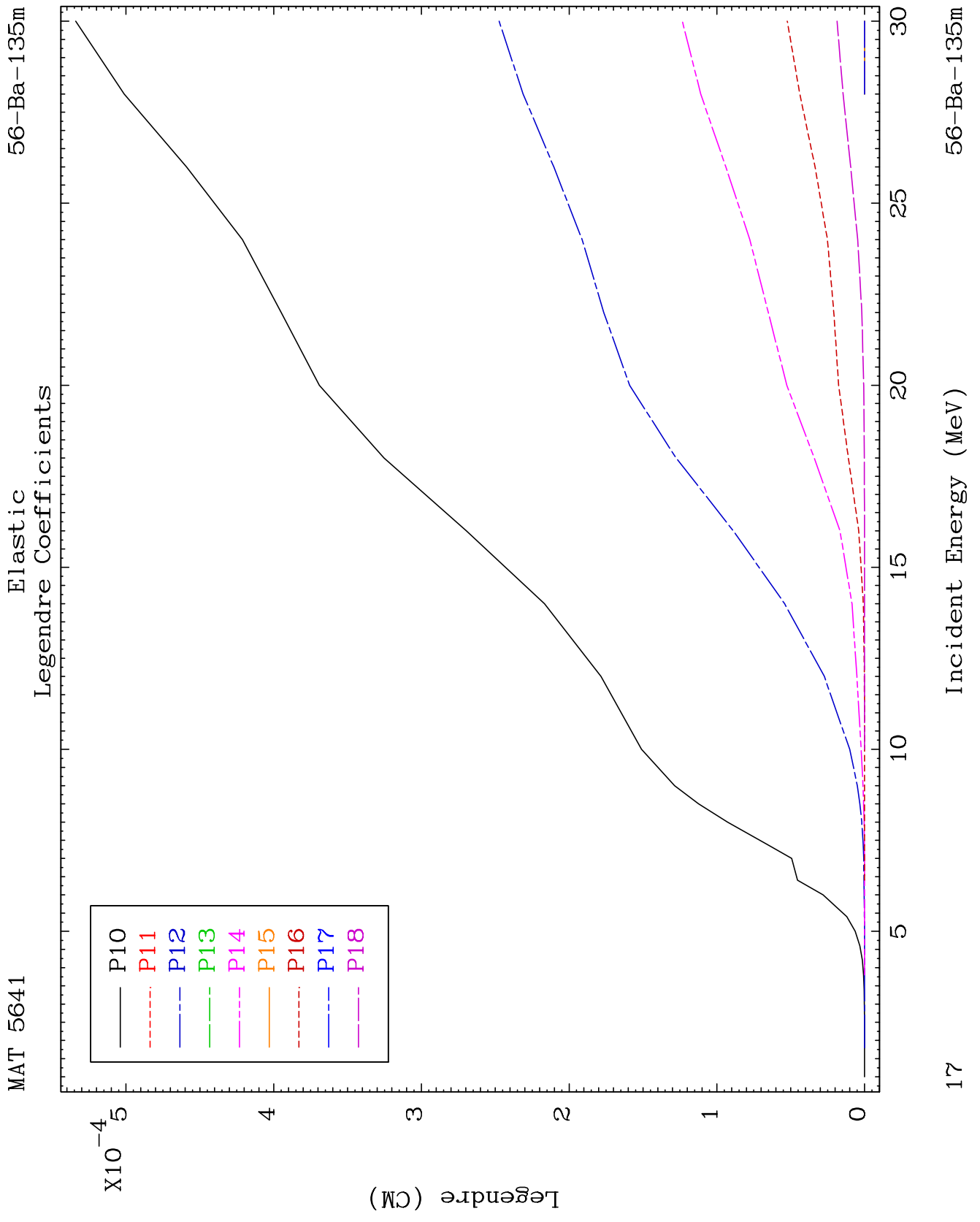


14

Incident Energy (MeV)

56-Ba-135m

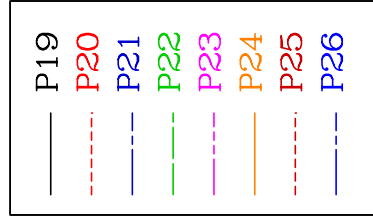




MAT 5641

Elastic Legendre Coefficients

56-Ba-135m



$\times 10^{-6}$
1.5

Legendre (CM)

1.0

0.5

0.0

15

20

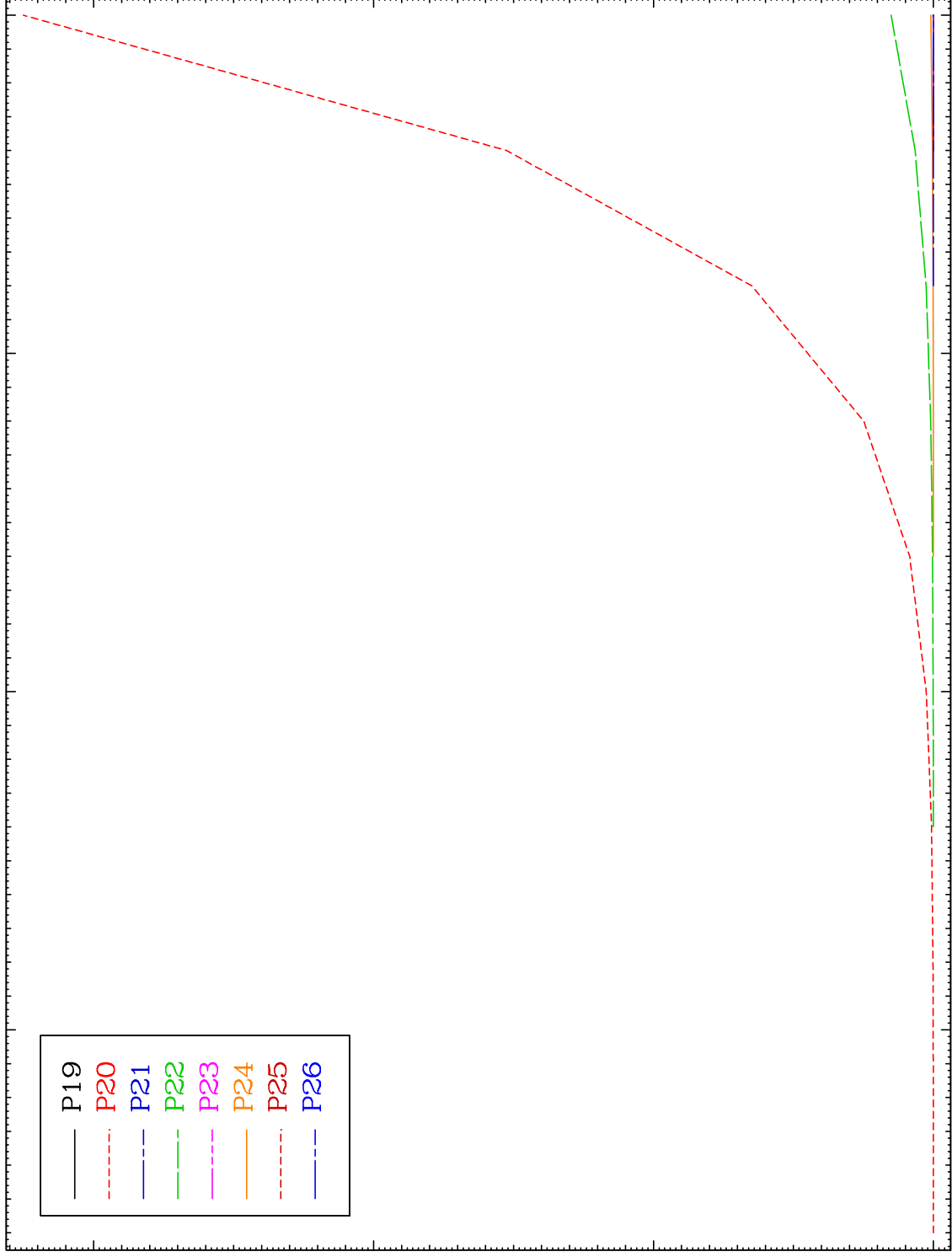
25

30

18

Incident Energy (MeV)

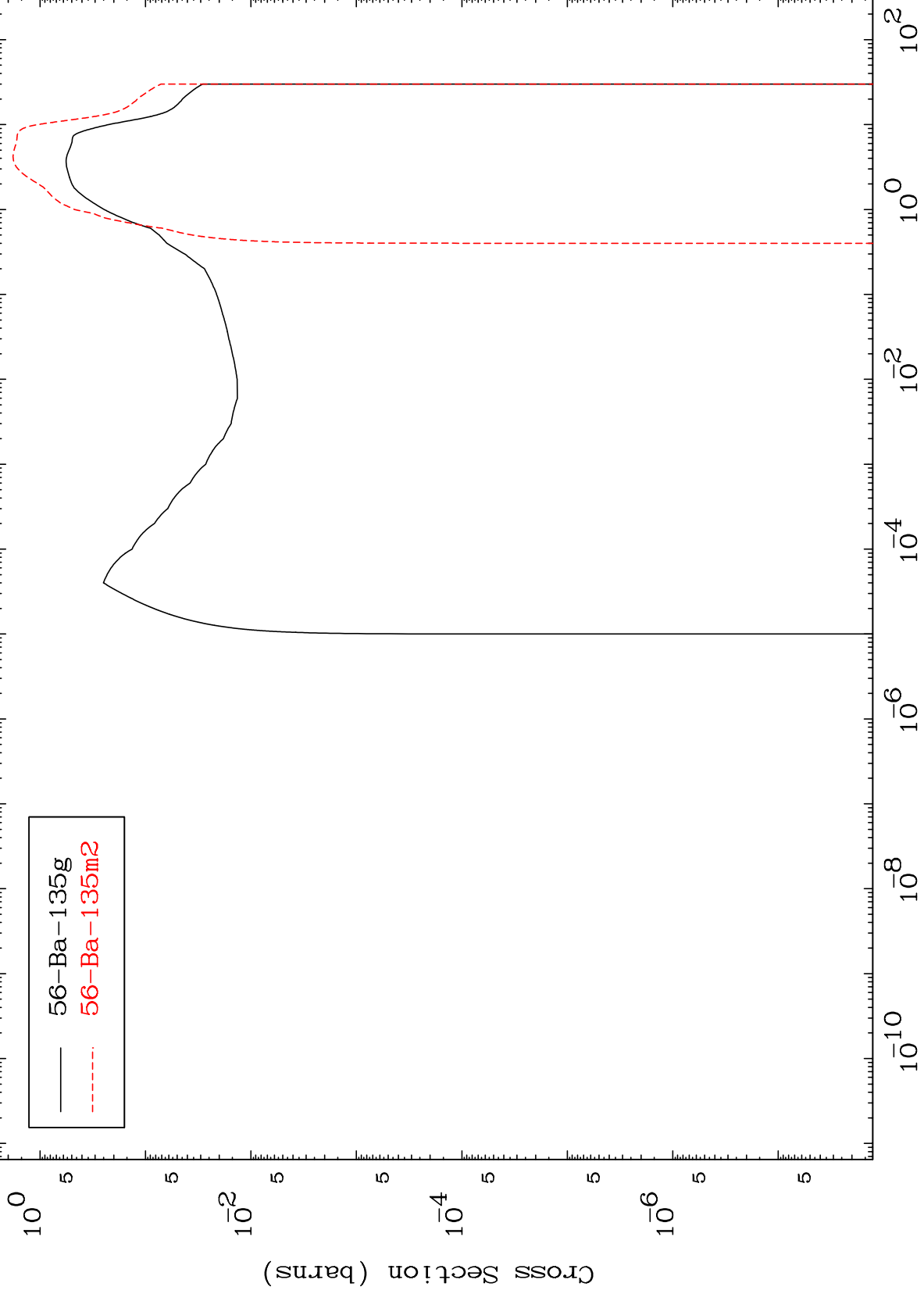
56-Ba-135m



MAT 5641

Inelastic
Radionuclide Production Cross Section

56-Ba-135m



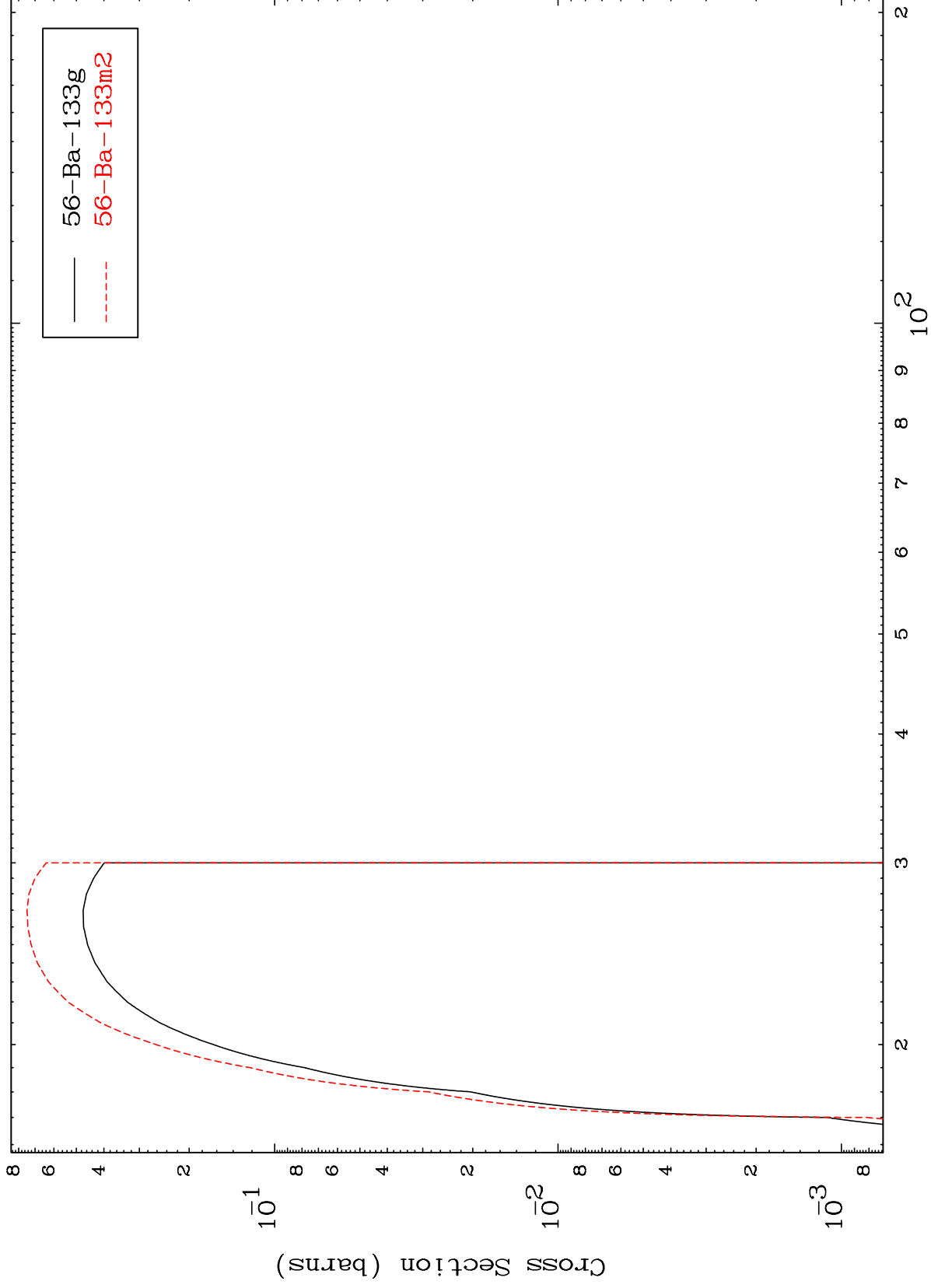
56-Ba-135g
56-Ba-135m2

MAT 5641

(n,3n)

56-Ba-135m

Radionuclide Production Cross Section



20

Incident Energy (MeV)

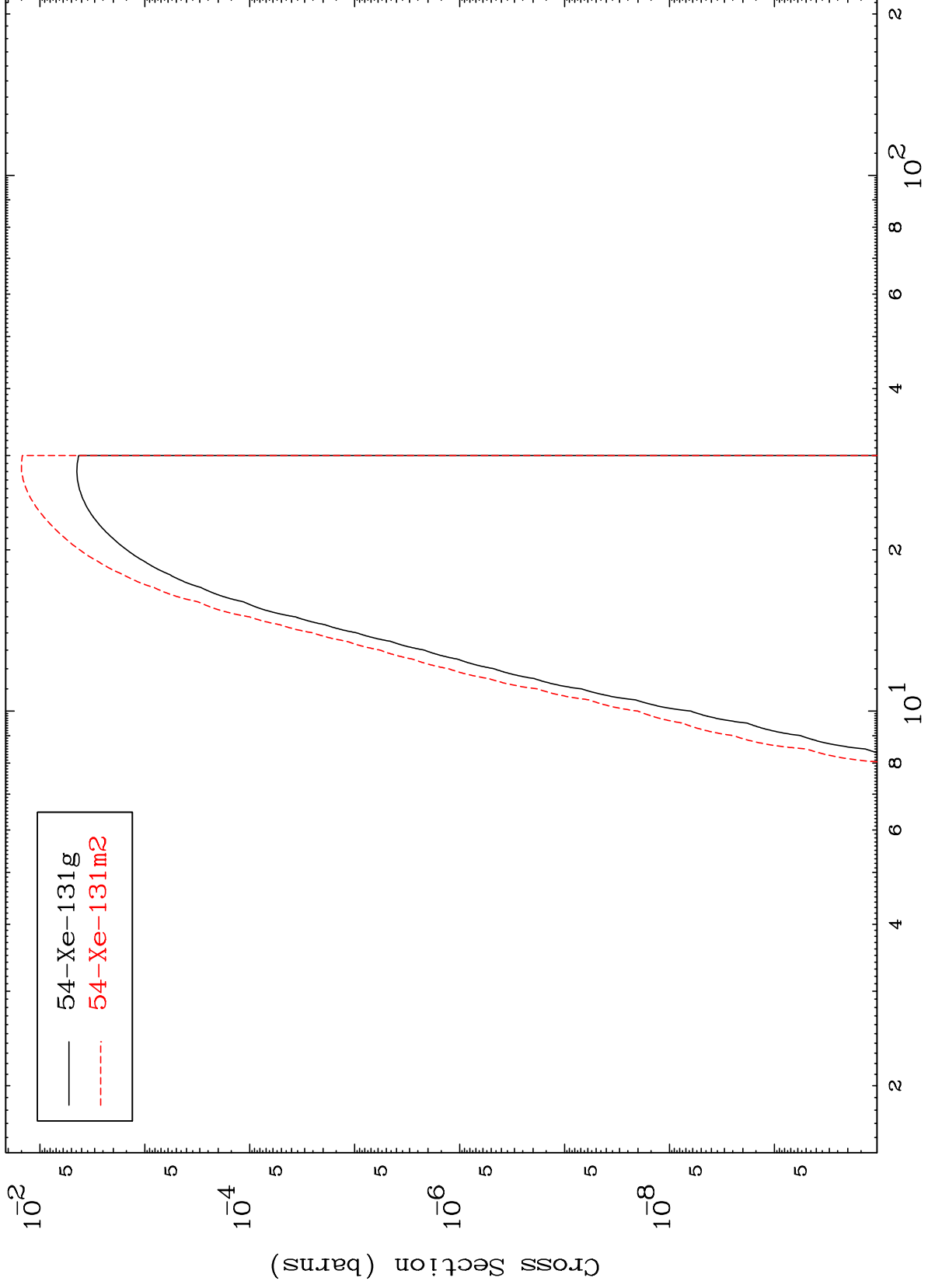
56-Ba-135m

MAT 5641

(n,n') α

56-Ba-135m

Radionuclide Production Cross Section



21

Incident Energy (MeV)

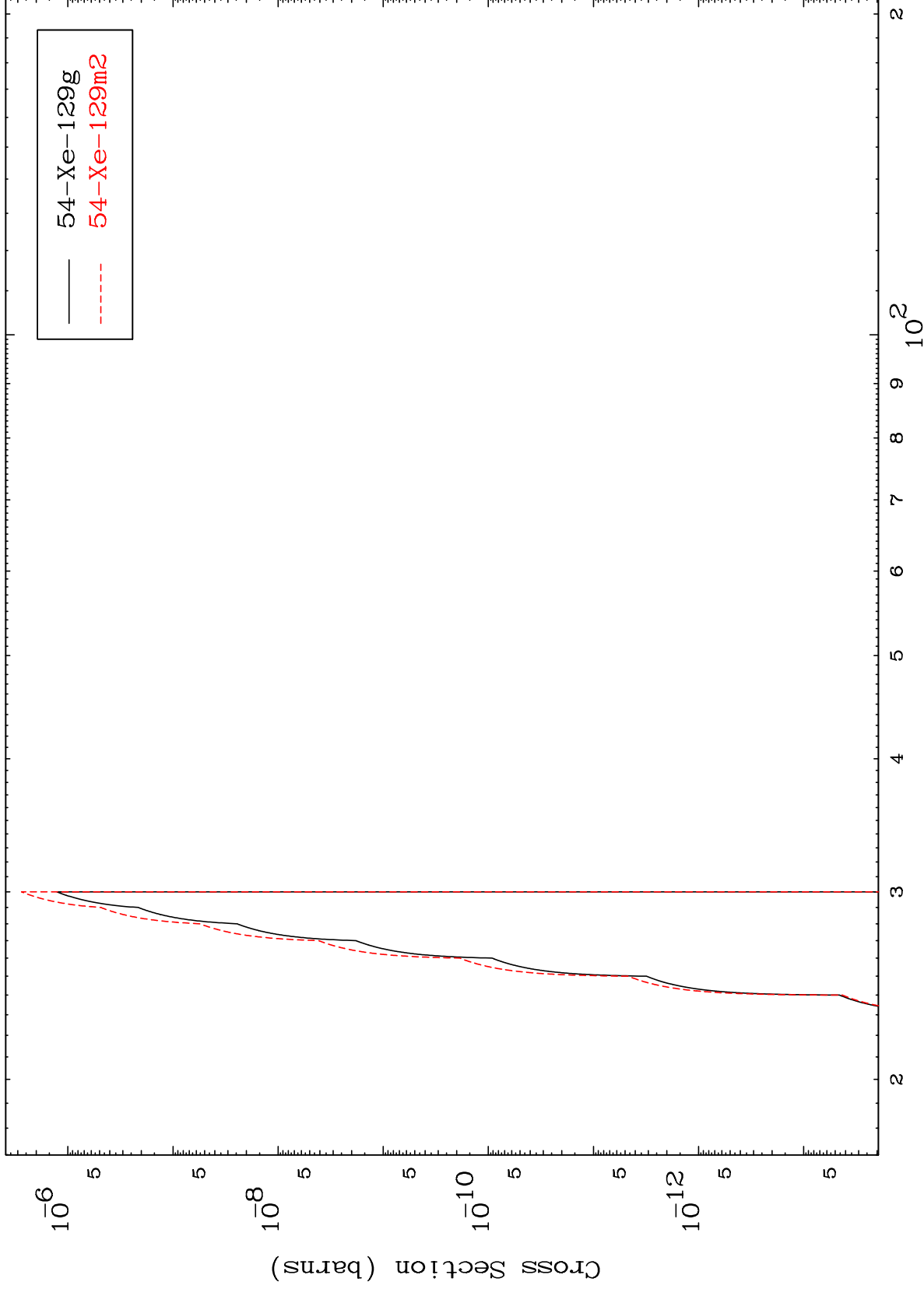
56-Ba-135m

MAT 5641

(n,3n) α

56-Ba-135m

Radionuclide Production Cross Section



22

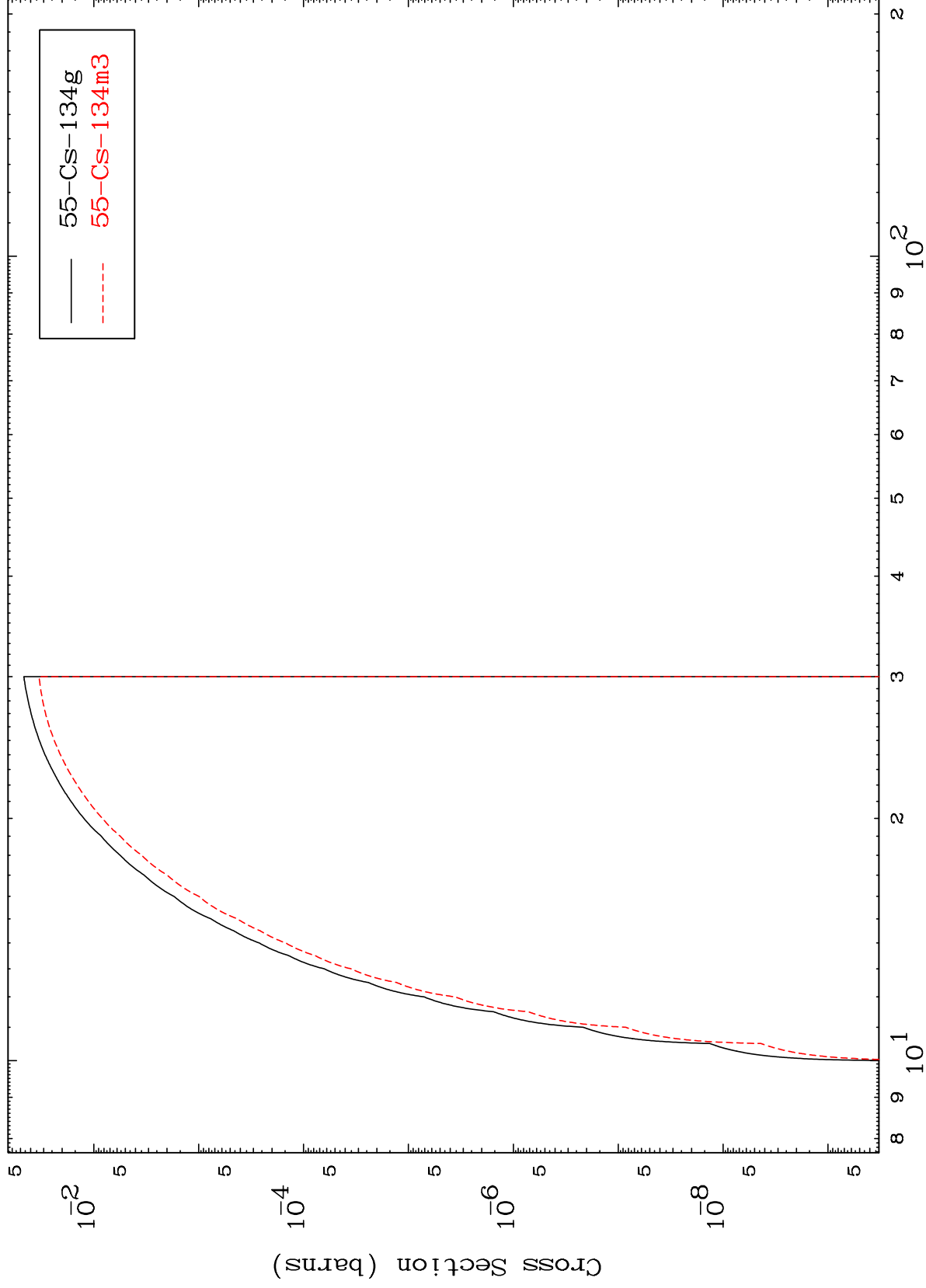
Incident Energy (MeV)

56-Ba-135m

MAT 5641

56-Ba-135m

(n,n') p
Radionuclide Production Cross Section



23

Incident Energy (MeV)

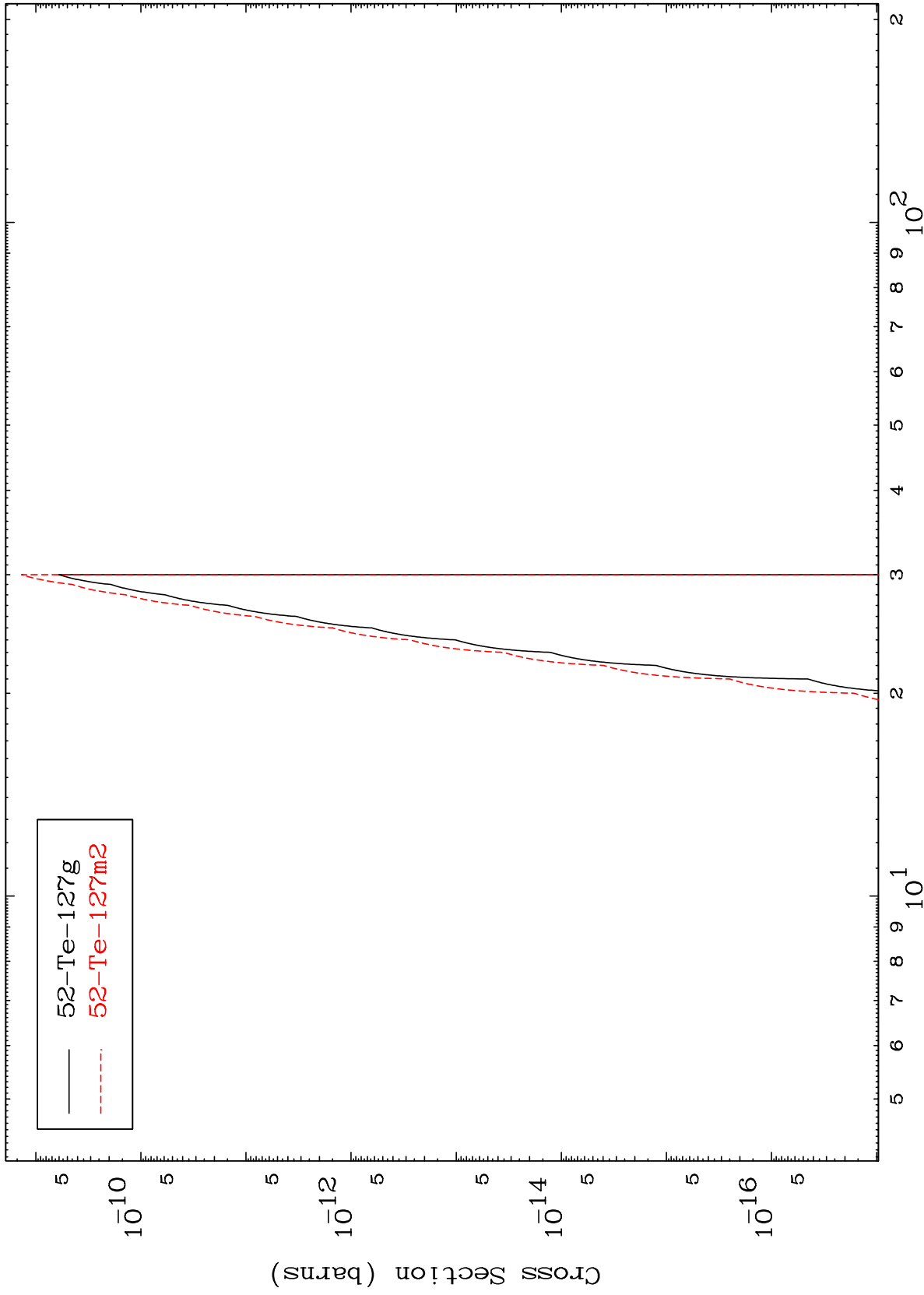
56-Ba-135m

MAT 5641

(n,n') 2α

56-Ba-135m

Radionuclide Production Cross Section

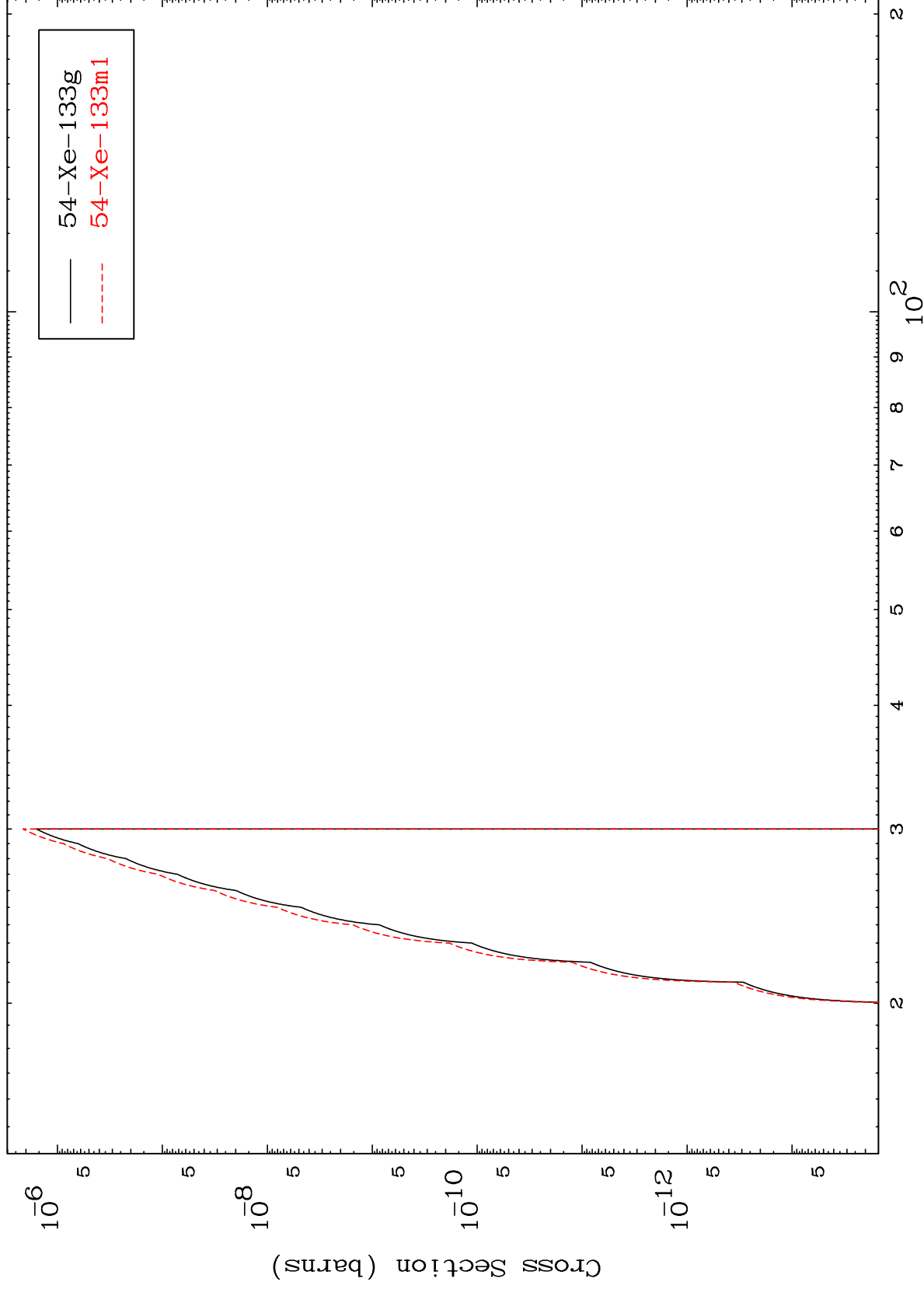


MAT 5641

(n,2n) p

56-Ba-135m

Radionuclide Production Cross Section



25

Incident Energy (MeV)

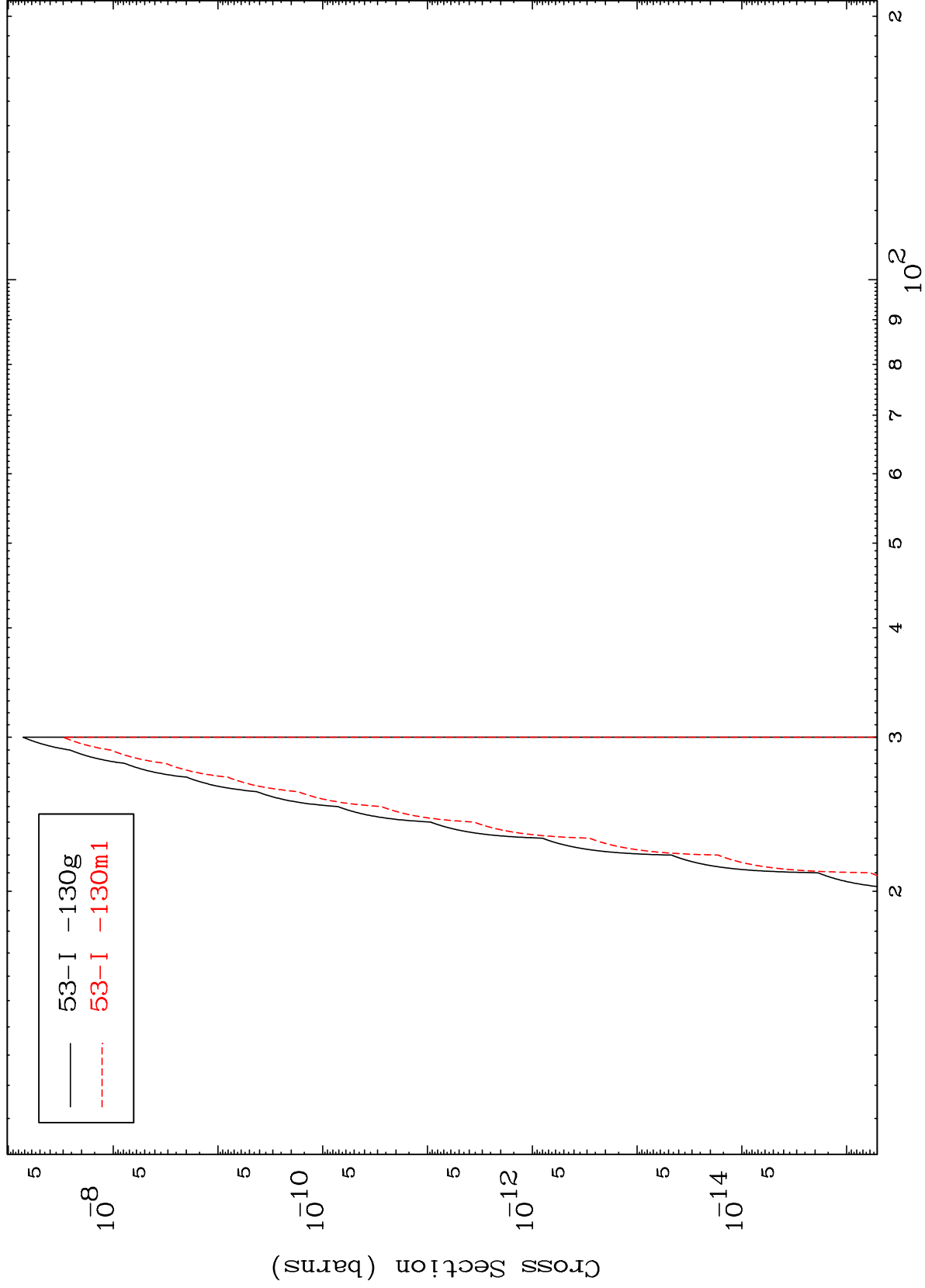
56-Ba-135m

MAT 5641

(n,n') p α

56-Ba-135m

Radionuclide Production Cross Section



26

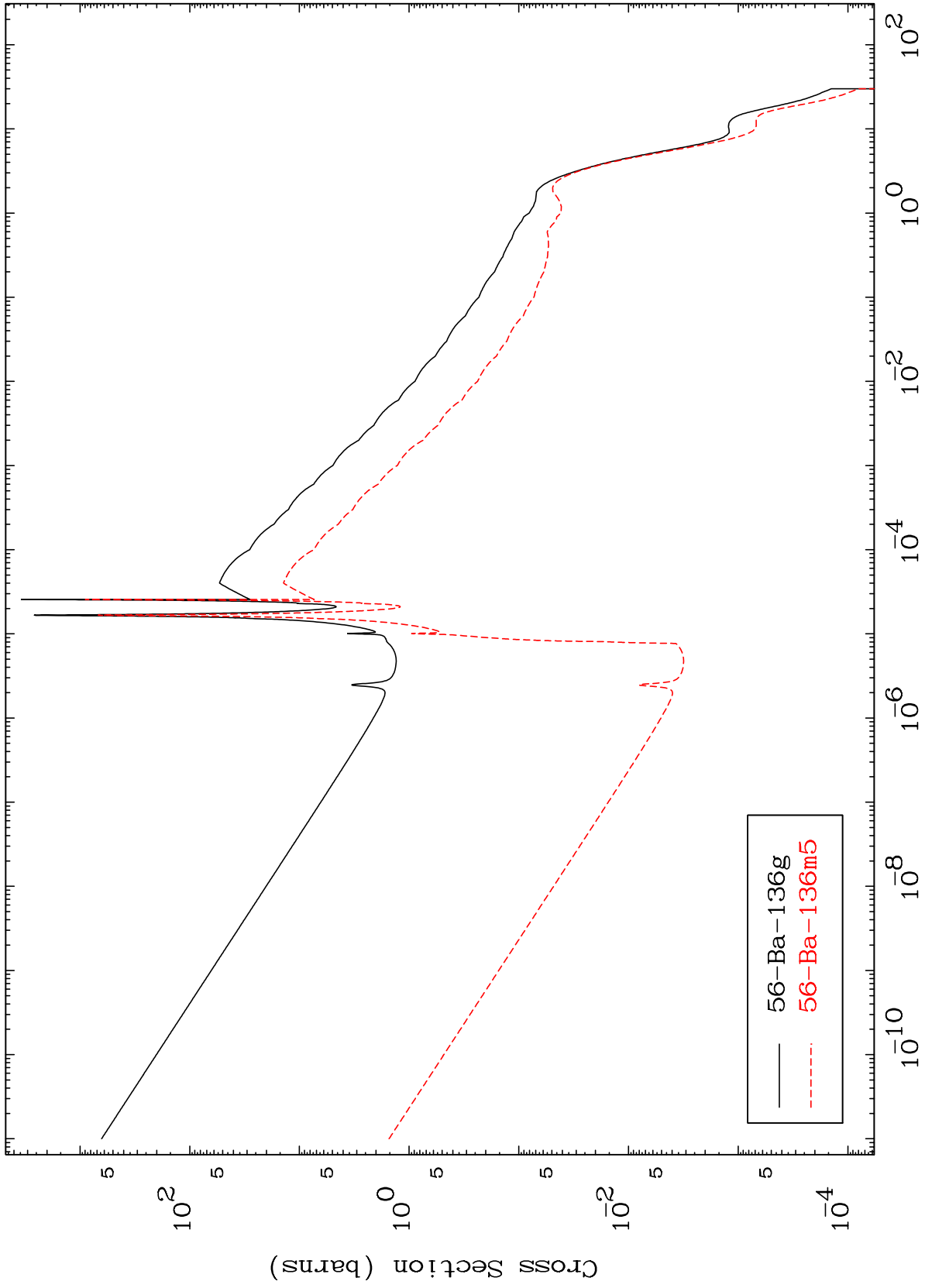
Incident Energy (MeV)

56-Ba-135m

MAT 5641

56-Ba-135m

(n, γ)
Radionuclide Production Cross Section



27

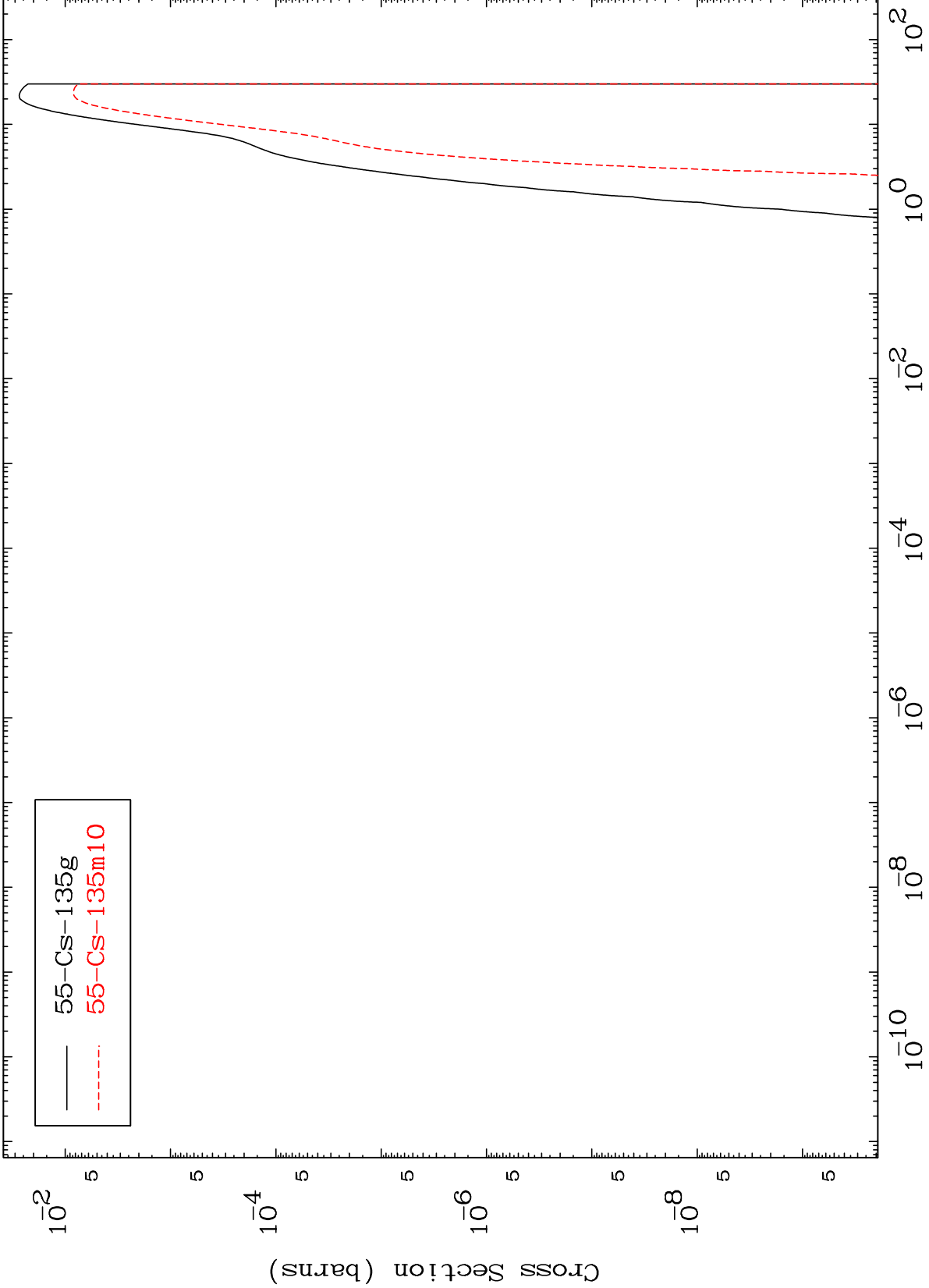
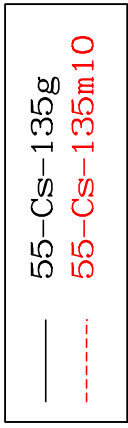
56-Ba-135m

MAT 5641

(n,p)

56-Ba-135m

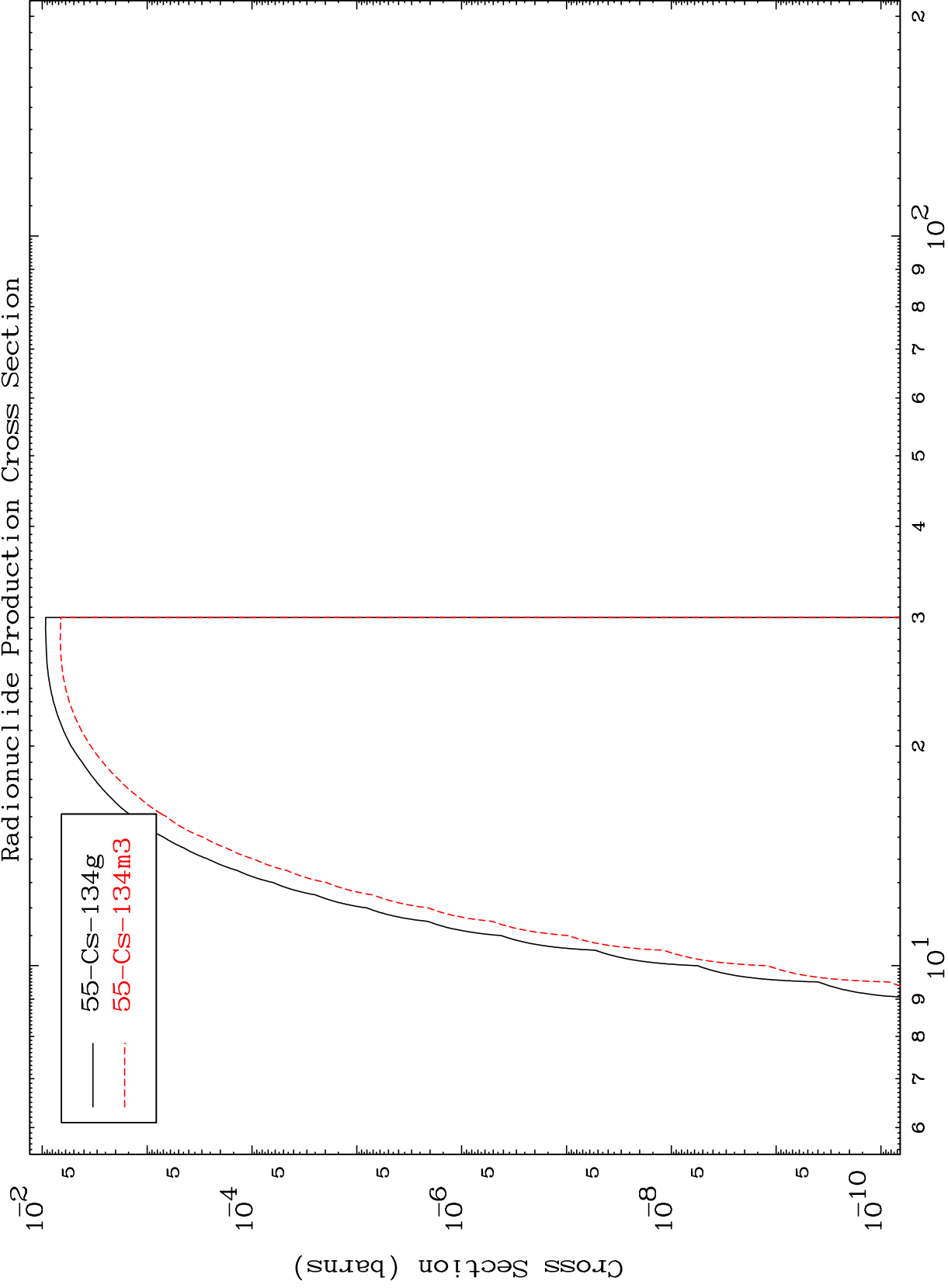
Radionuclide Production Cross Section



MAT 5641

56-Ba-135m

(n,d)
Radionuclide Production Cross Section



29

Incident Energy (MeV)

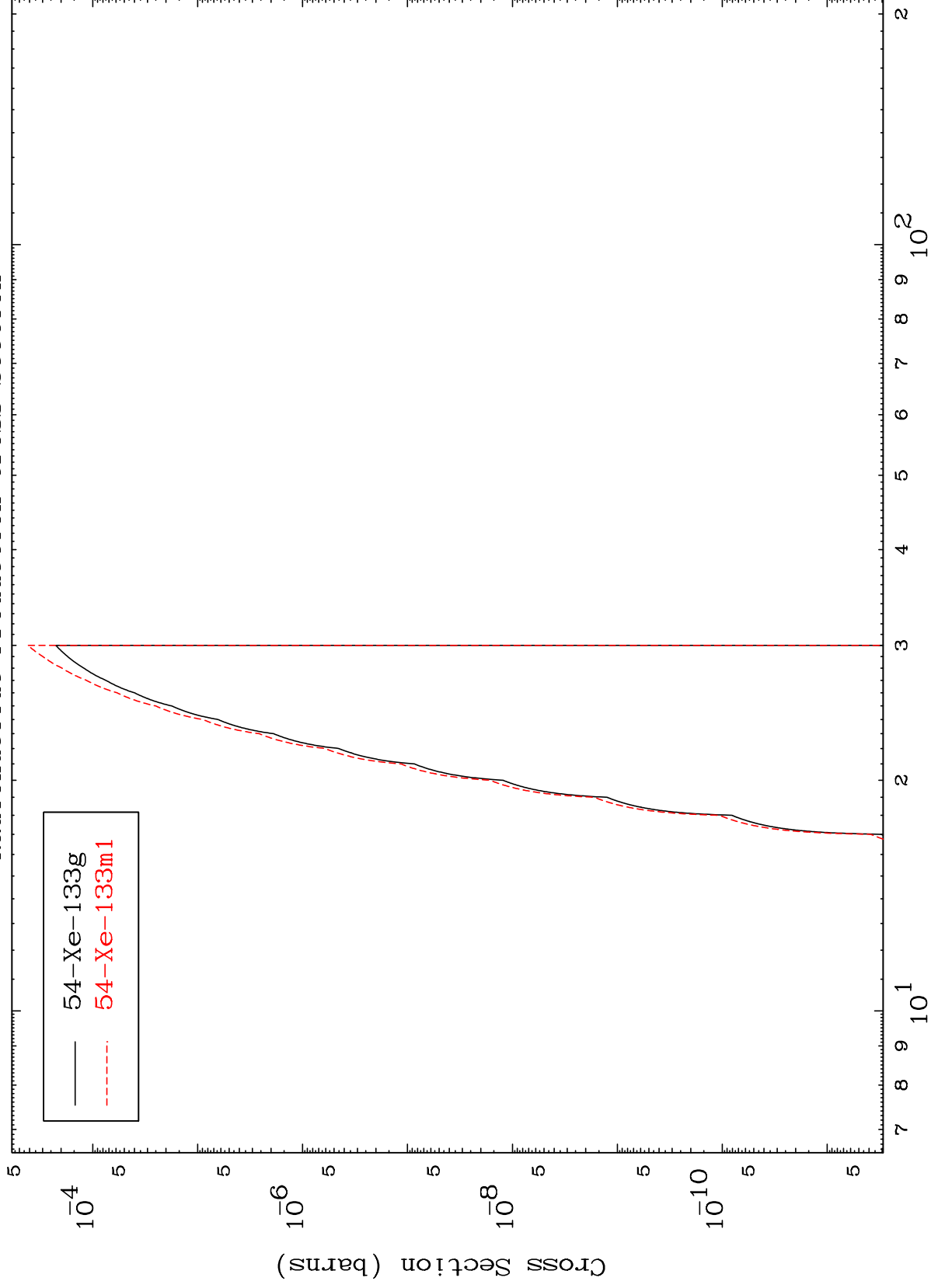
56-Ba-135m

MAT 5641

(n,He-3)

56-Ba-135m

Radionuclide Production Cross Section



30

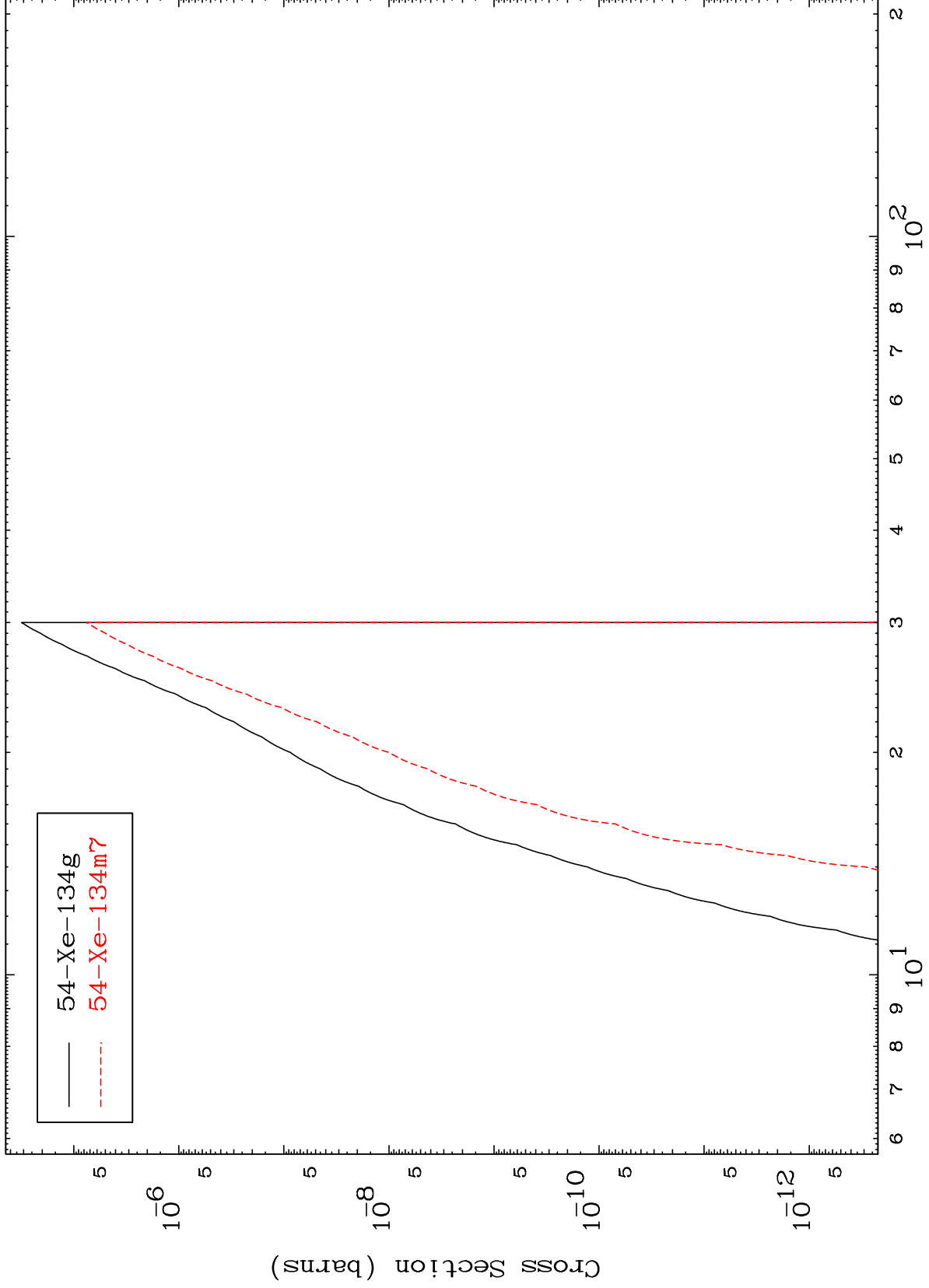
Incident Energy (MeV)

56-Ba-135m

MAT 5641

56-Ba-135m

(n,2p)
Radionuclide Production Cross Section



31

Incident Energy (MeV)

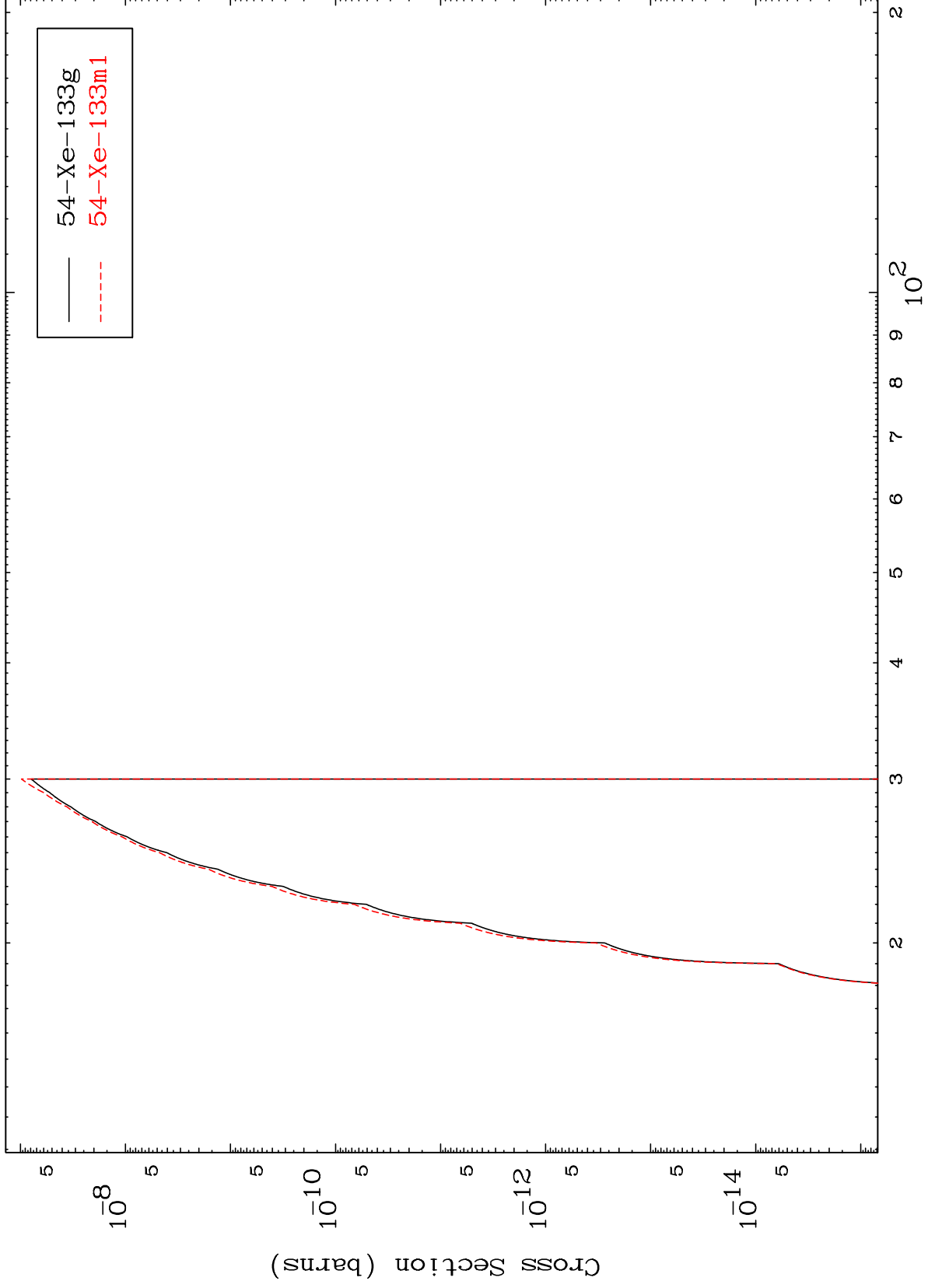
56-Ba-135m

MAT 5641

(n,p) d

56-Ba-135m

Radionuclide Production Cross Section



32

Incident Energy (MeV)

56-Ba-135m

