

Program EVALPLOT
(Version 2017-1)

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

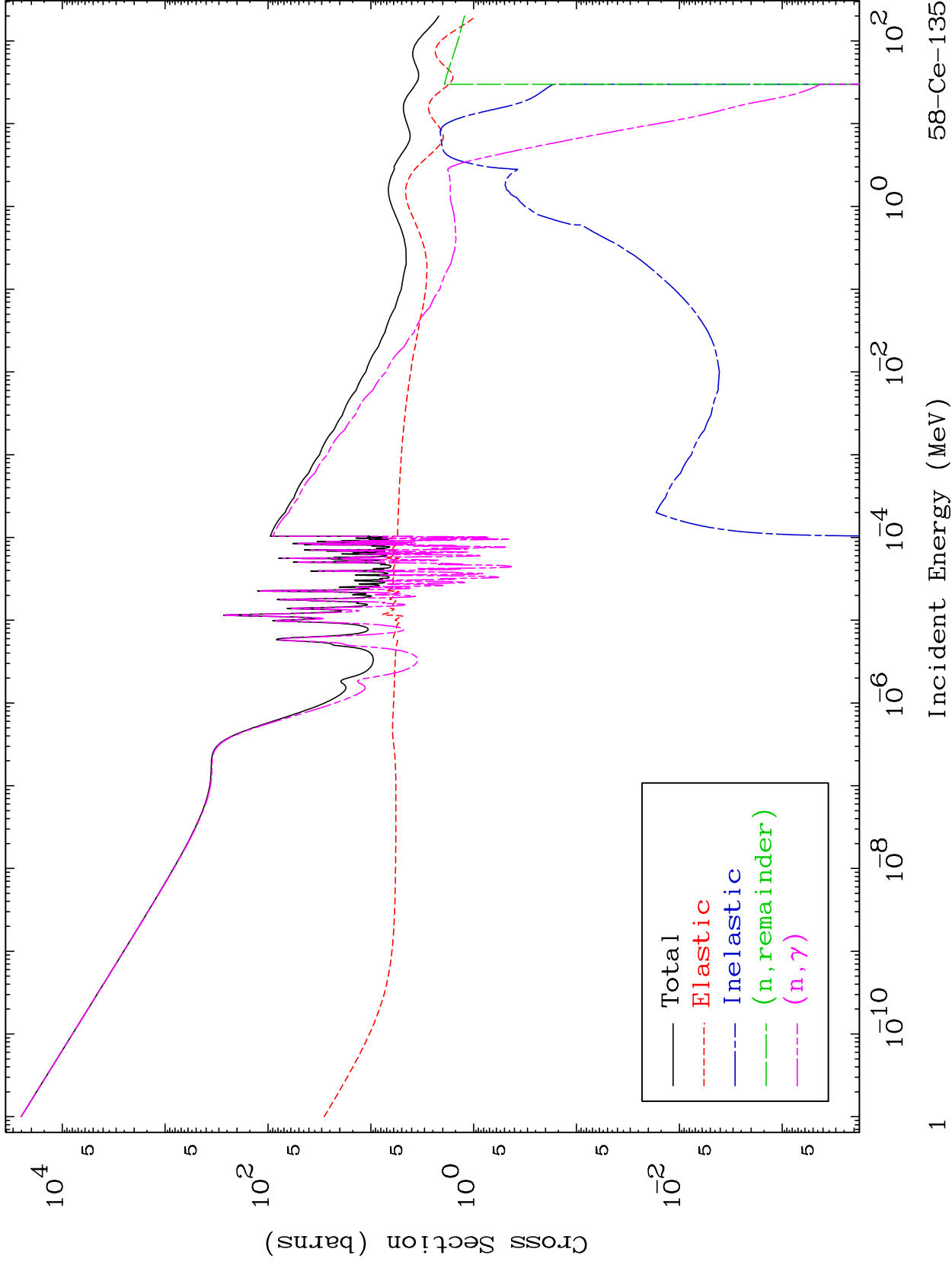
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5823

Major
293 Kelvin Cross Sections

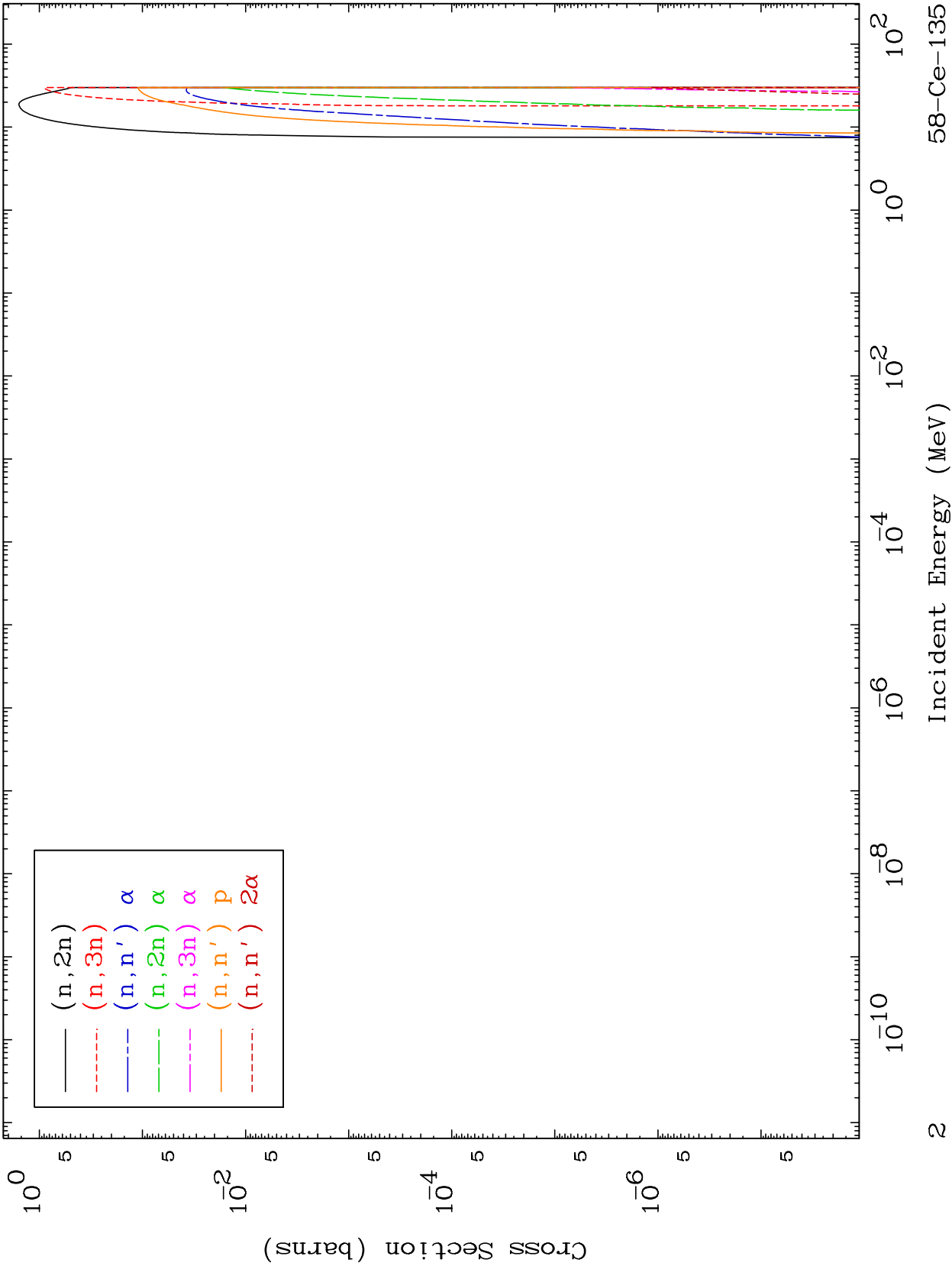
58-Ce-135

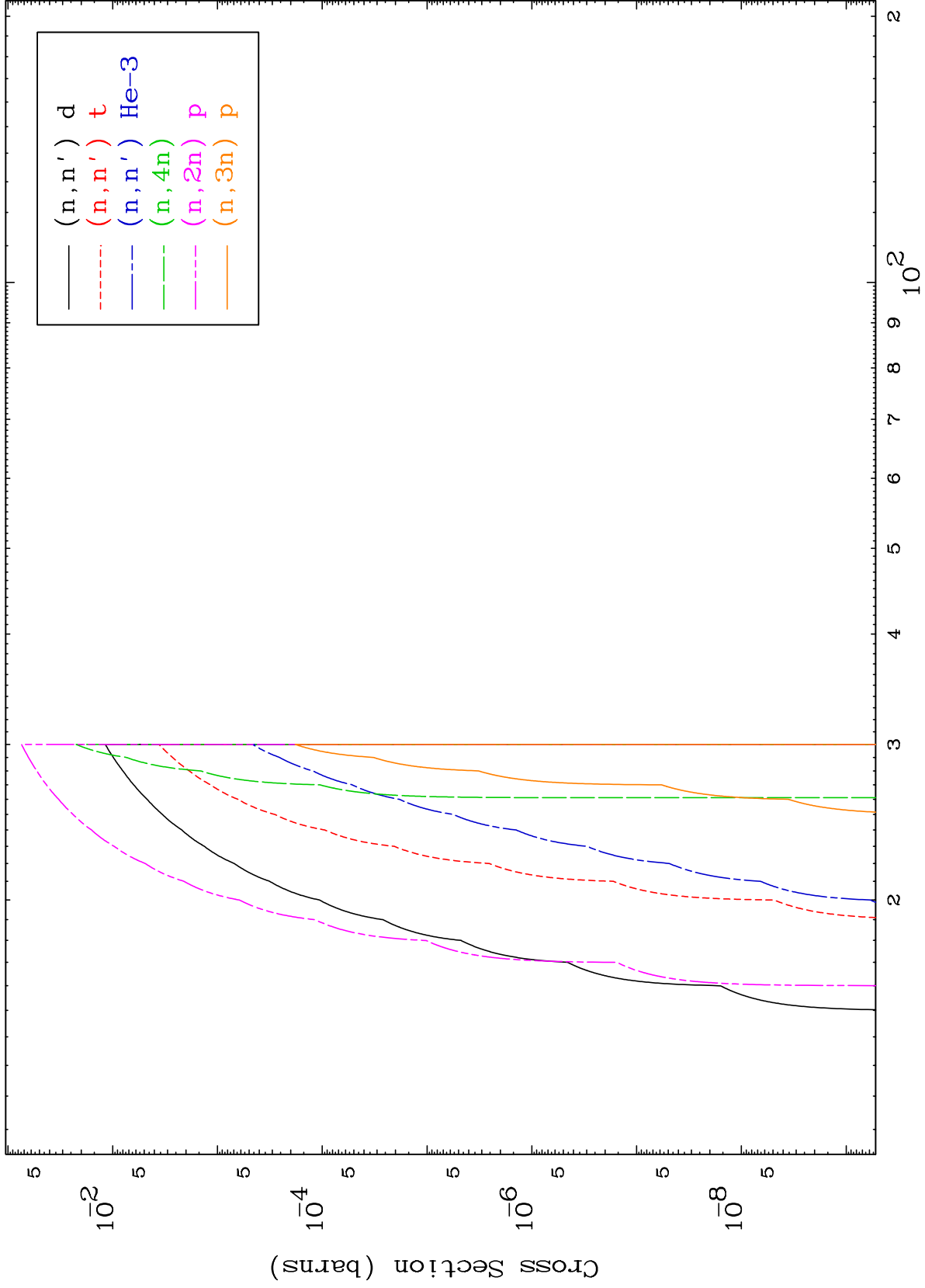


MAT 5823

Neutron Production
293 Kelvin Cross Sections

58-Ce-135

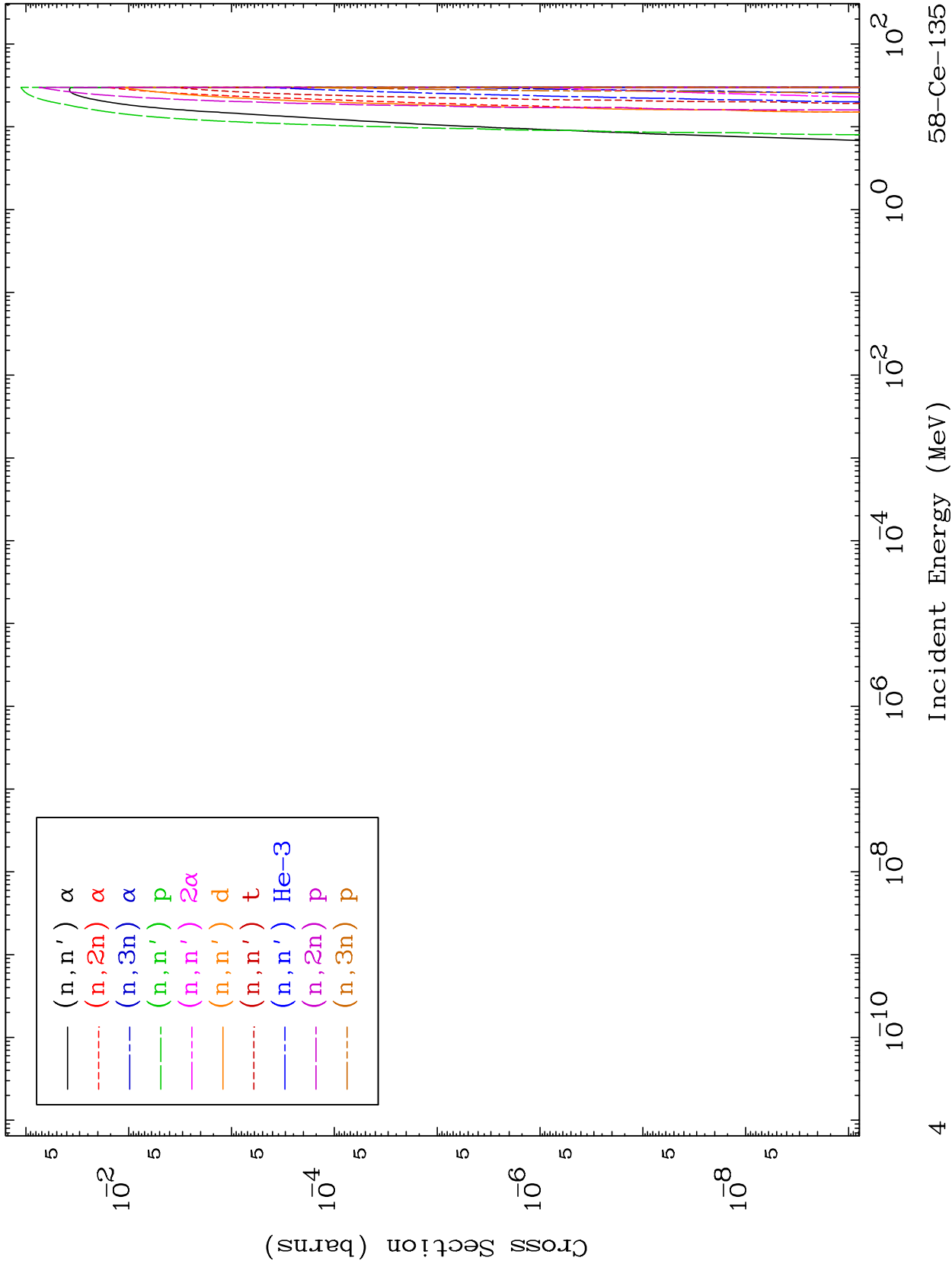




MAT 5823

Charged Particle
293 Kelvin Cross Sections

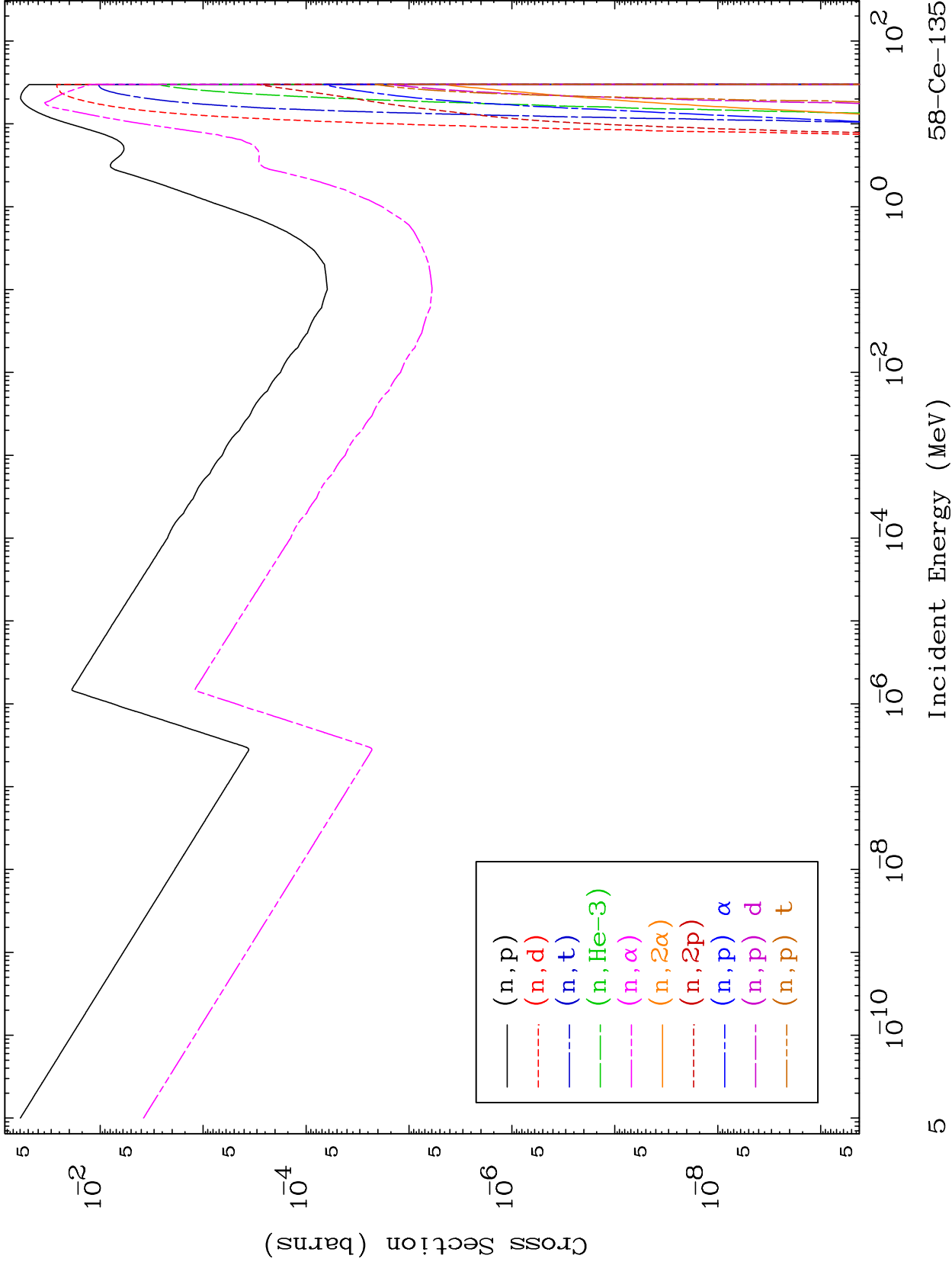
58-Ce-135

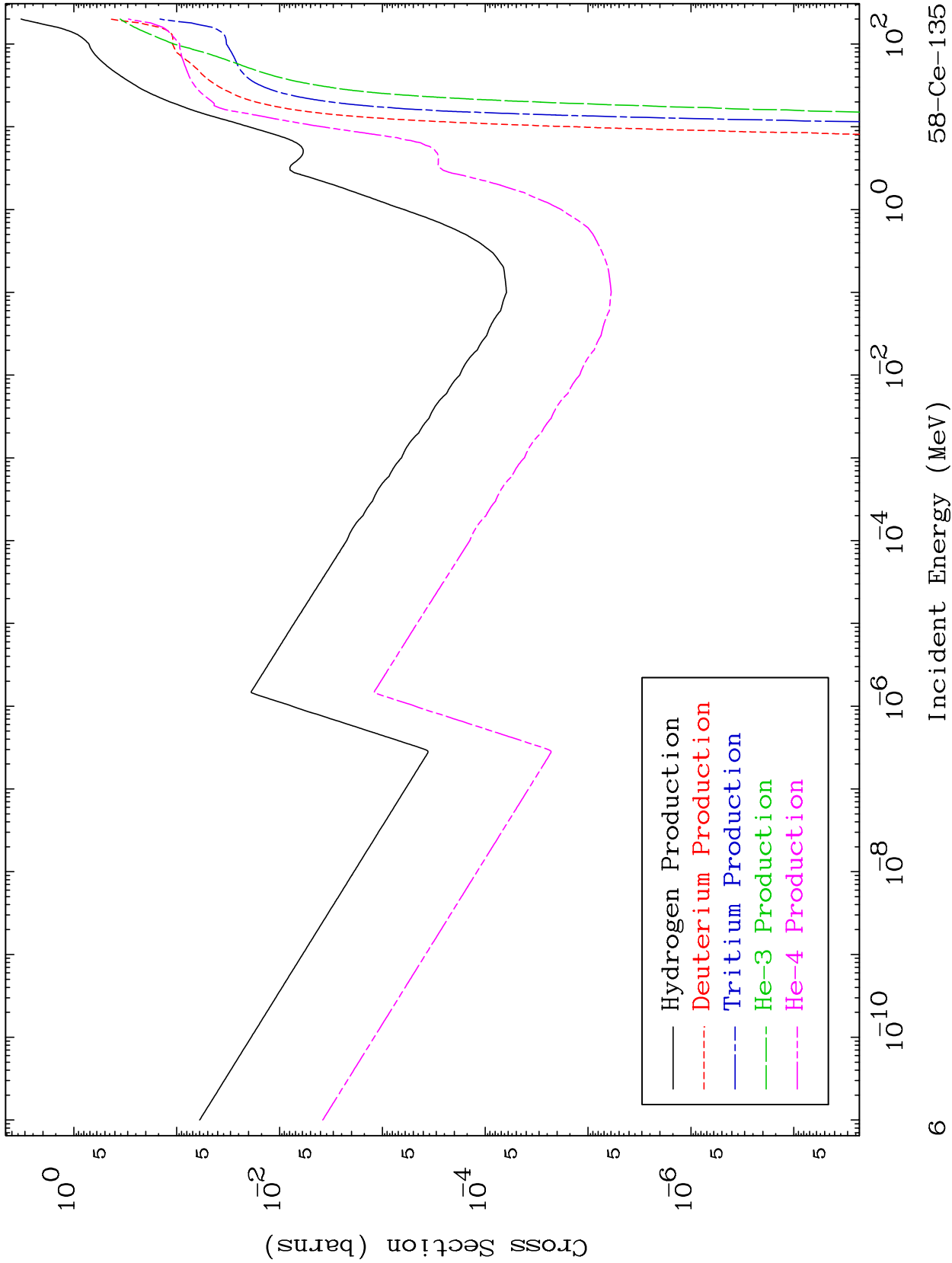


MAT 5823

Charged Particle
293 Kelvin Cross Sections

58-Ce-135

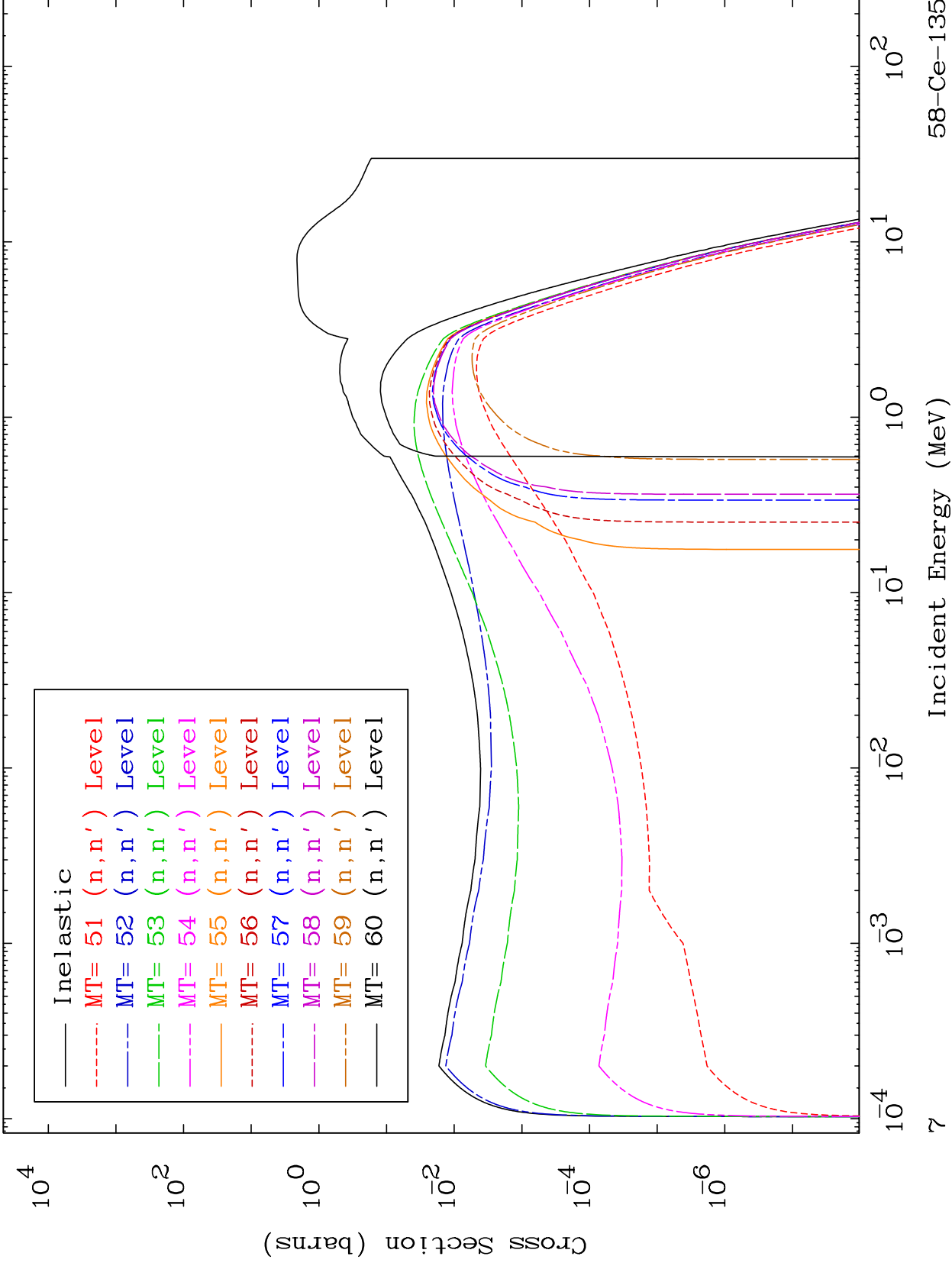




MAT 5823

(n,n') Level
293 Kelvin Cross Sections

58-Ce-135



MAT 5823

(n,n') Level

58-Ce-135

293 Kelvin Cross Sections

10^6

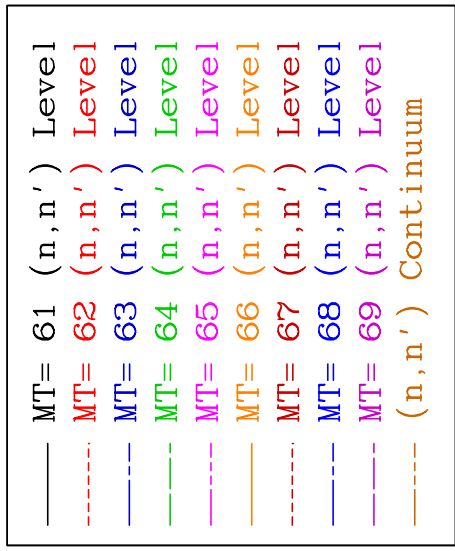
10^3

10^0

10^{-3}

10^{-6}

Cross Section (barns)



8 10⁰ 2 4 6 8 10¹ 2 4 6 8 10² 2

Incident Energy (MeV)

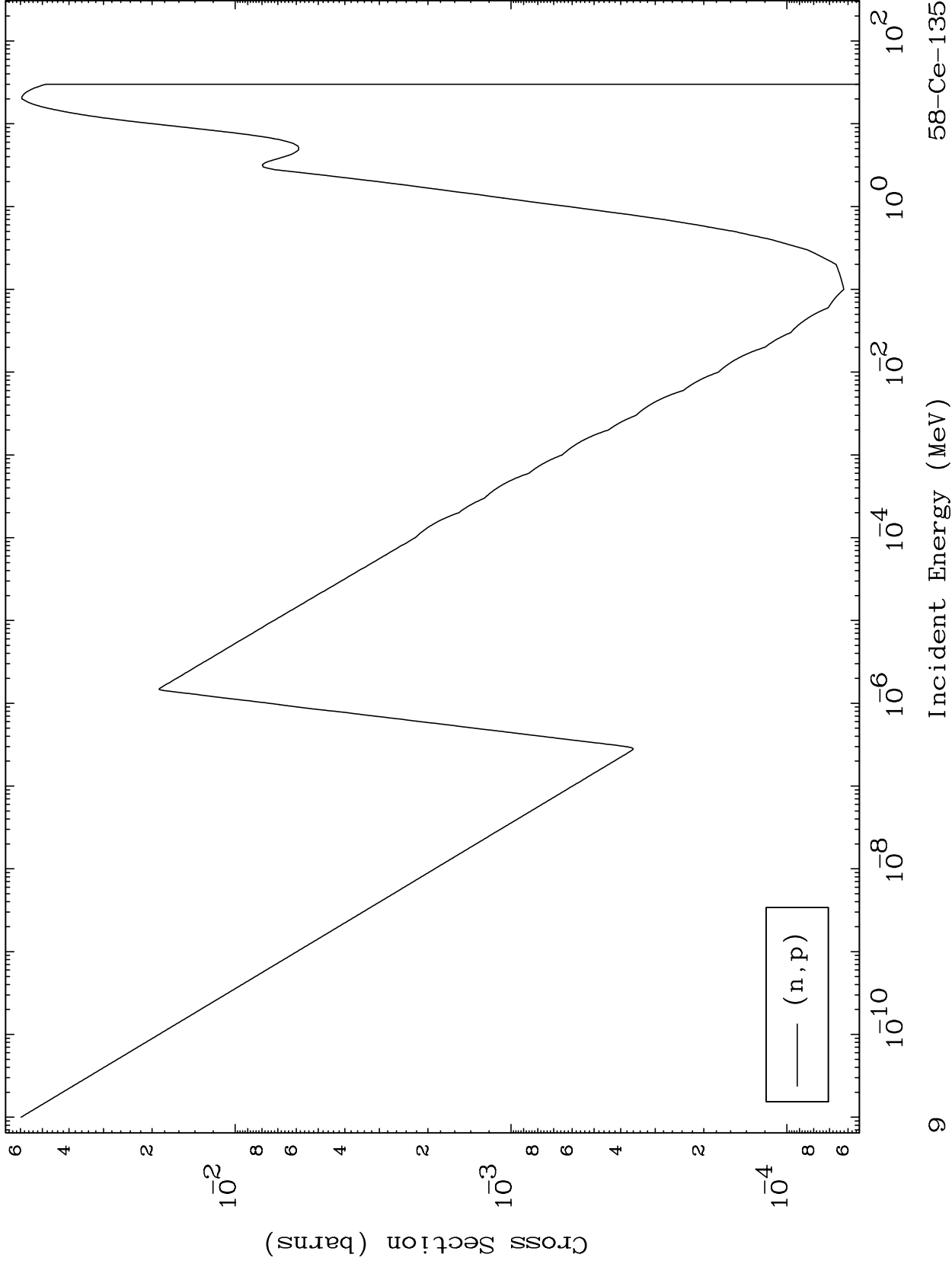
8

58-Ce-135

MAT 5823

(n,p) Levels
293 Kelvin Cross Sections

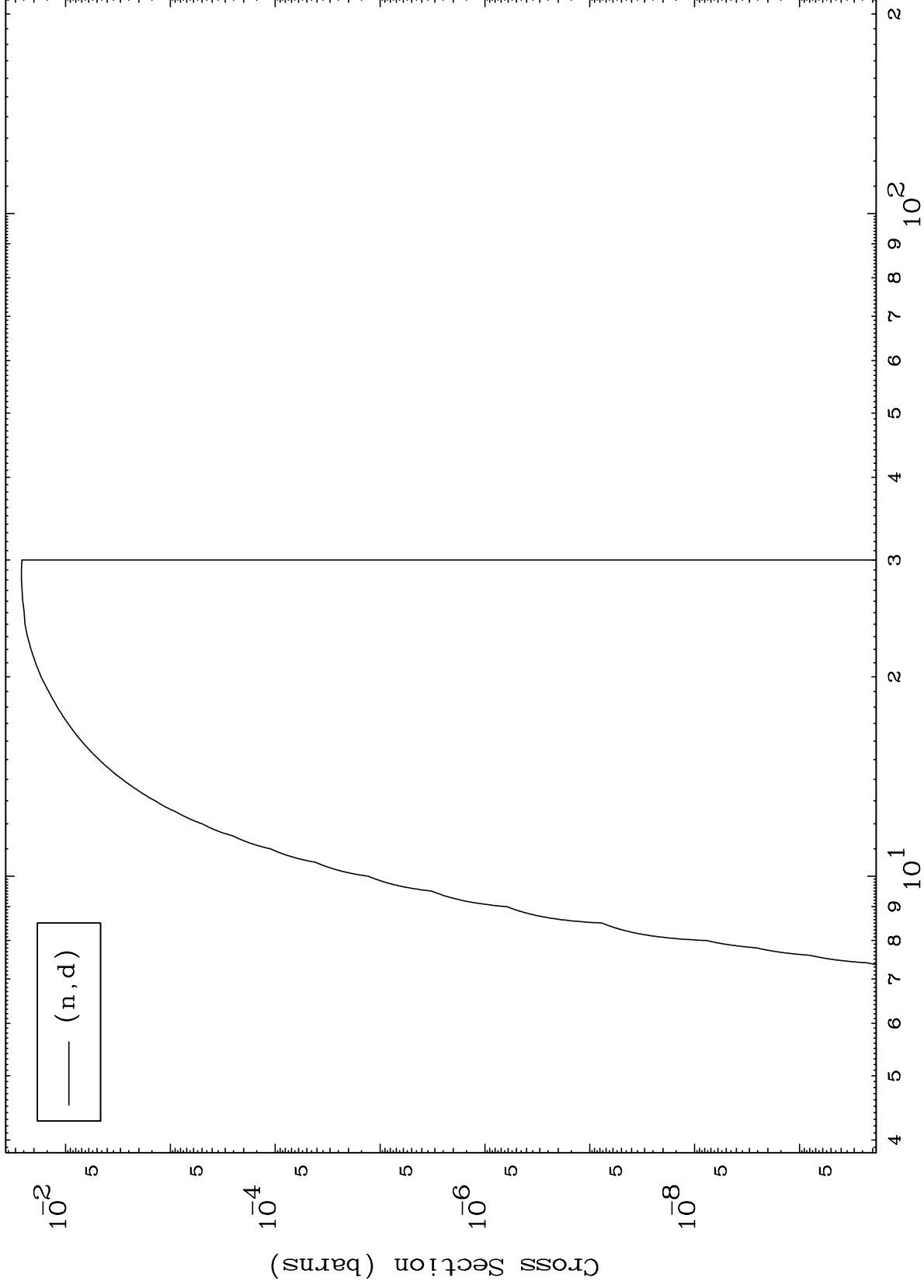
58-Ce-135



MAT 5823

(n,d) Levels
293 Kelvin Cross Sections

58-Ce-135



10

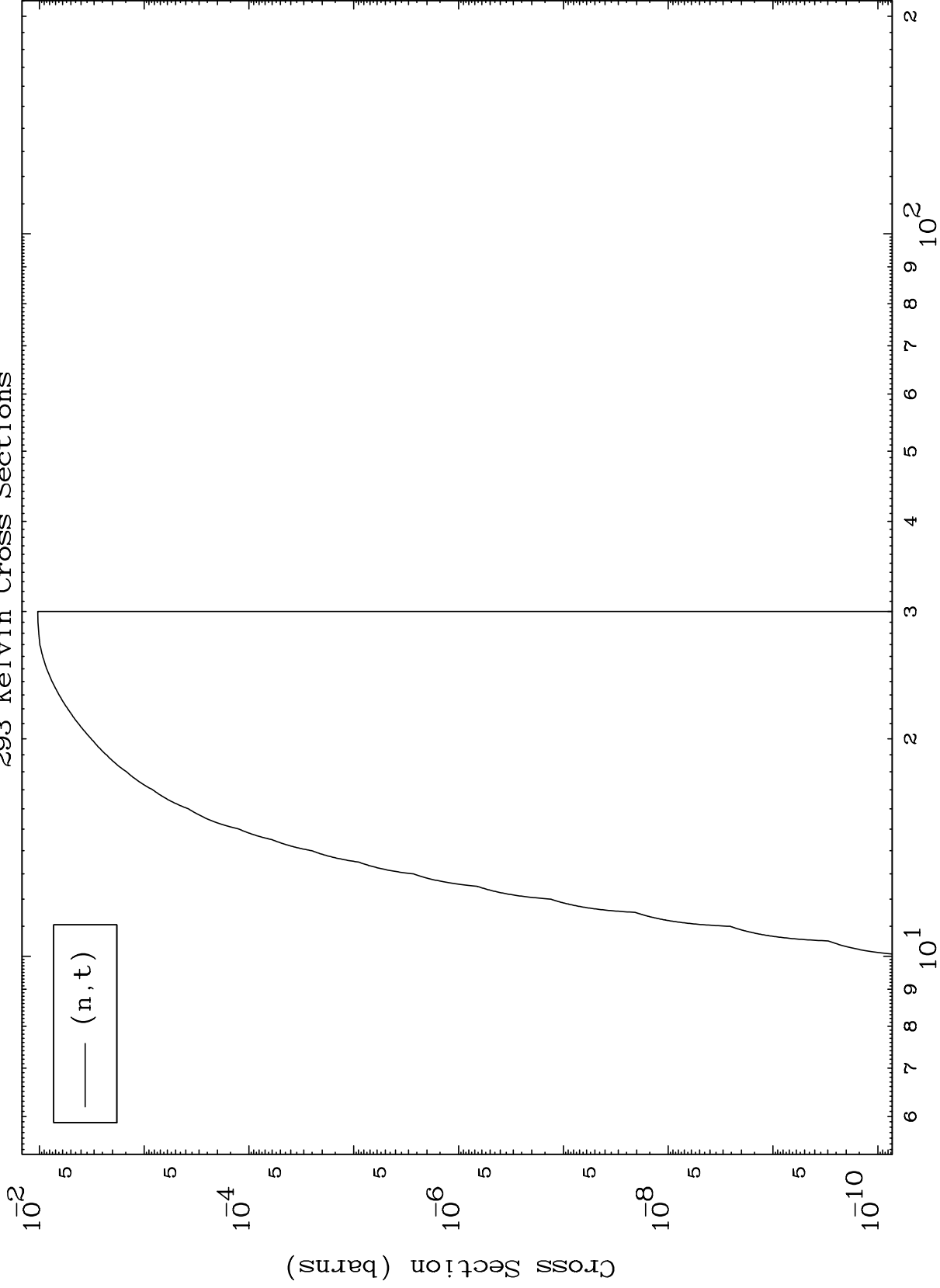
Incident Energy (MeV)

58-Ce-135

MAT 5823

(n,t) Levels
293 Kelvin Cross Sections

58-Ce-135



11

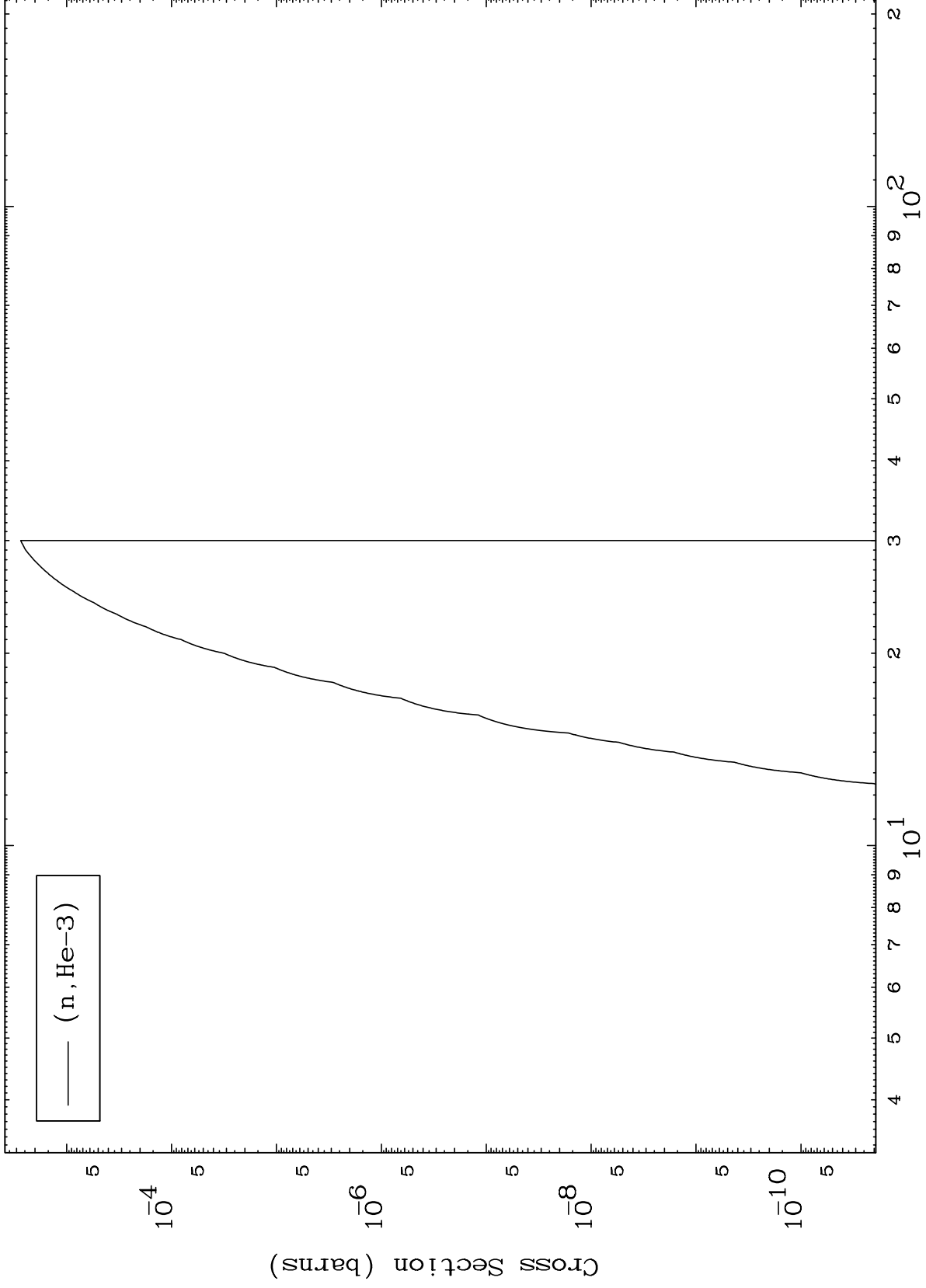
Incident Energy (MeV)

58-Ce-135

MAT 5823

(n,He3) Levels
293 Kelvin Cross Sections

58-Ce-135



12

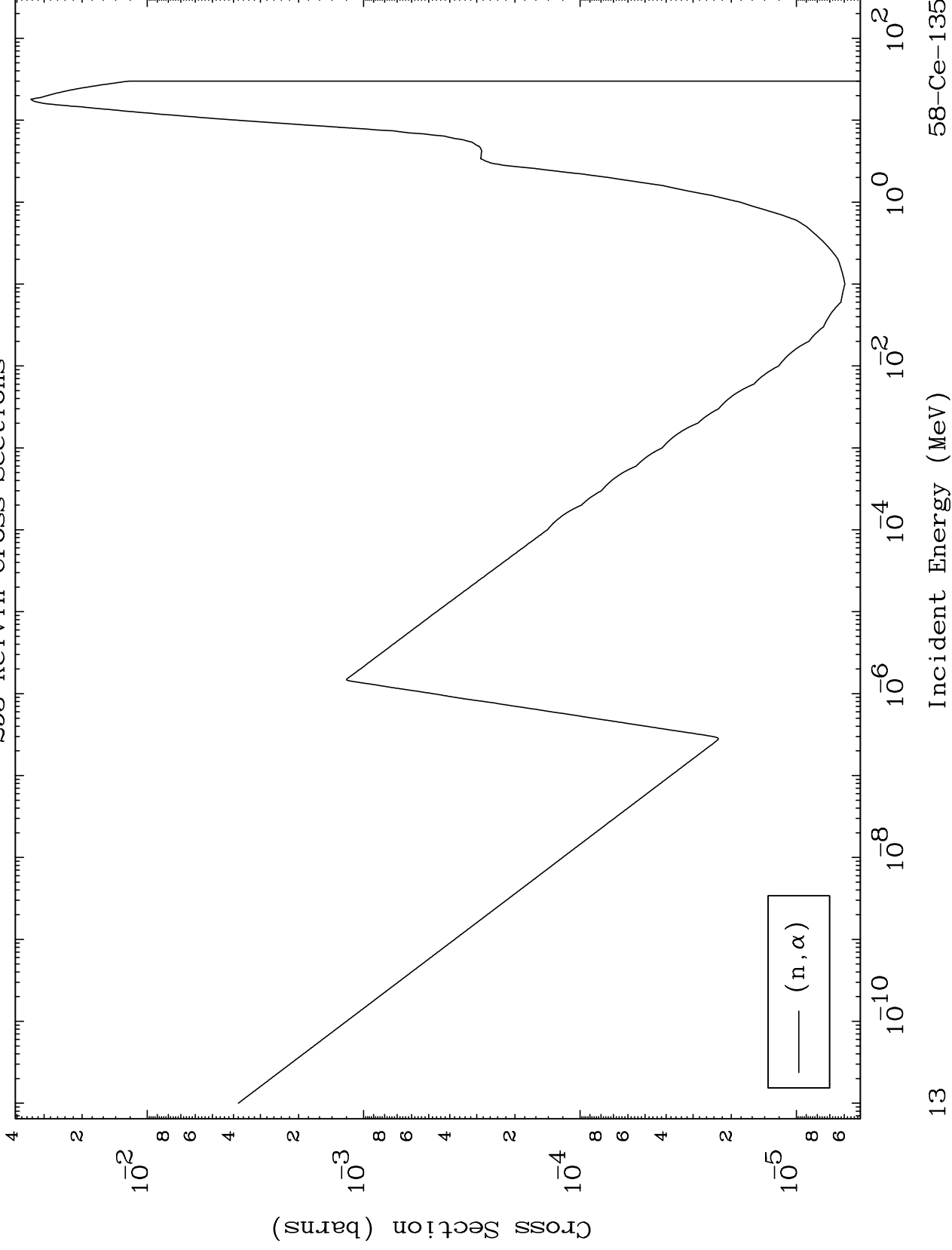
Incident Energy (MeV)

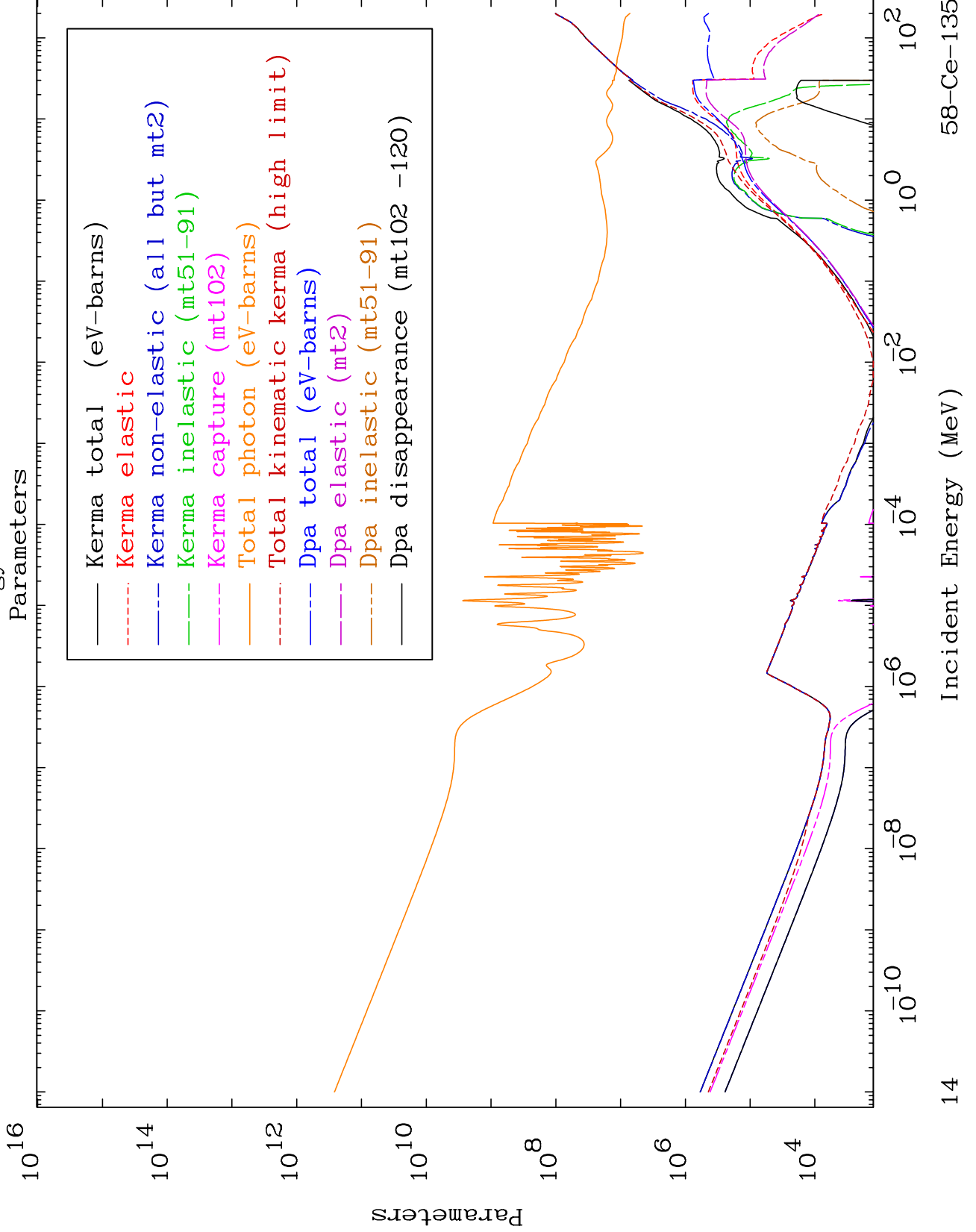
58-Ce-135

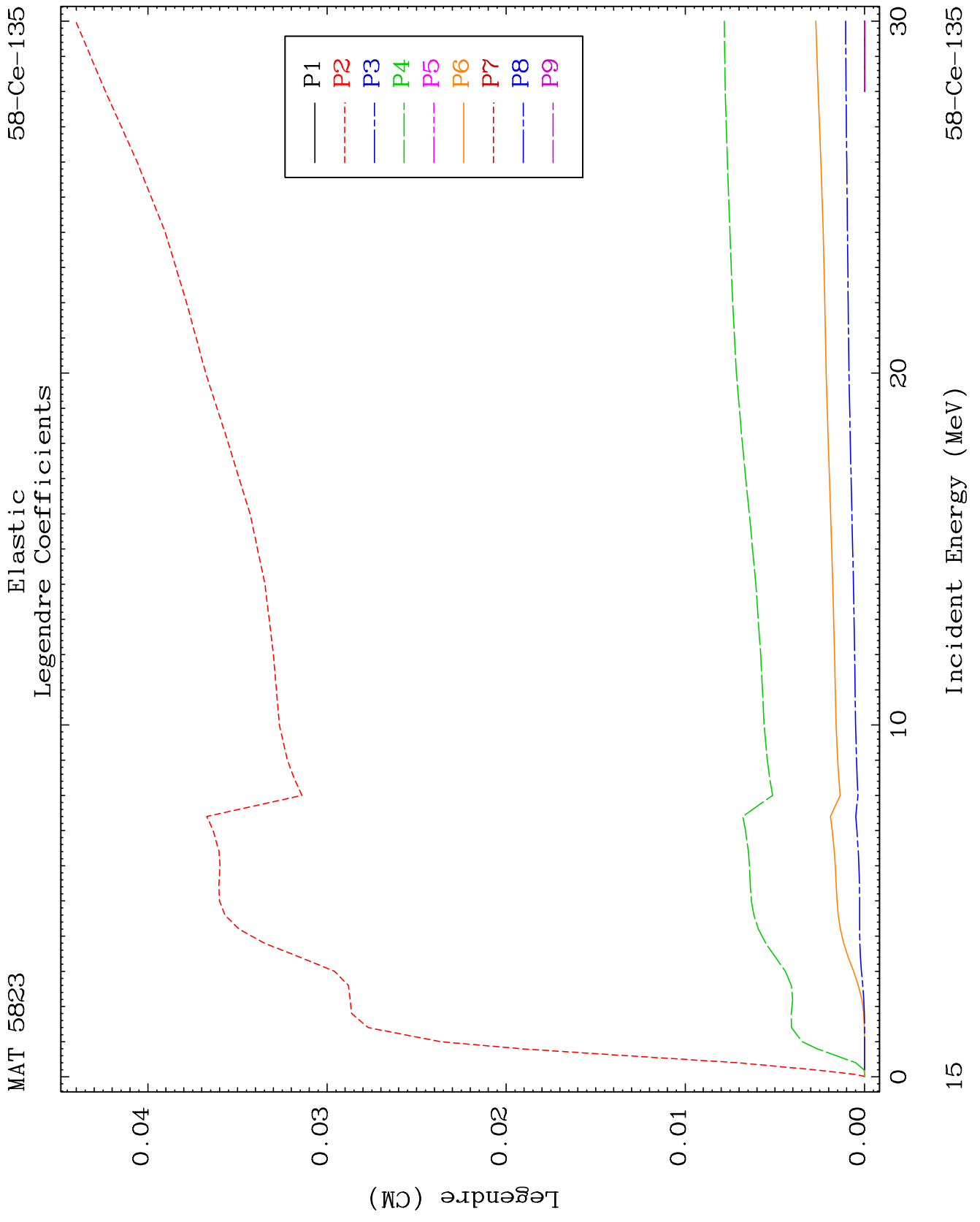
MAT 5823

(n, α) Levels
293 Kelvin Cross Sections

58-Ce-135



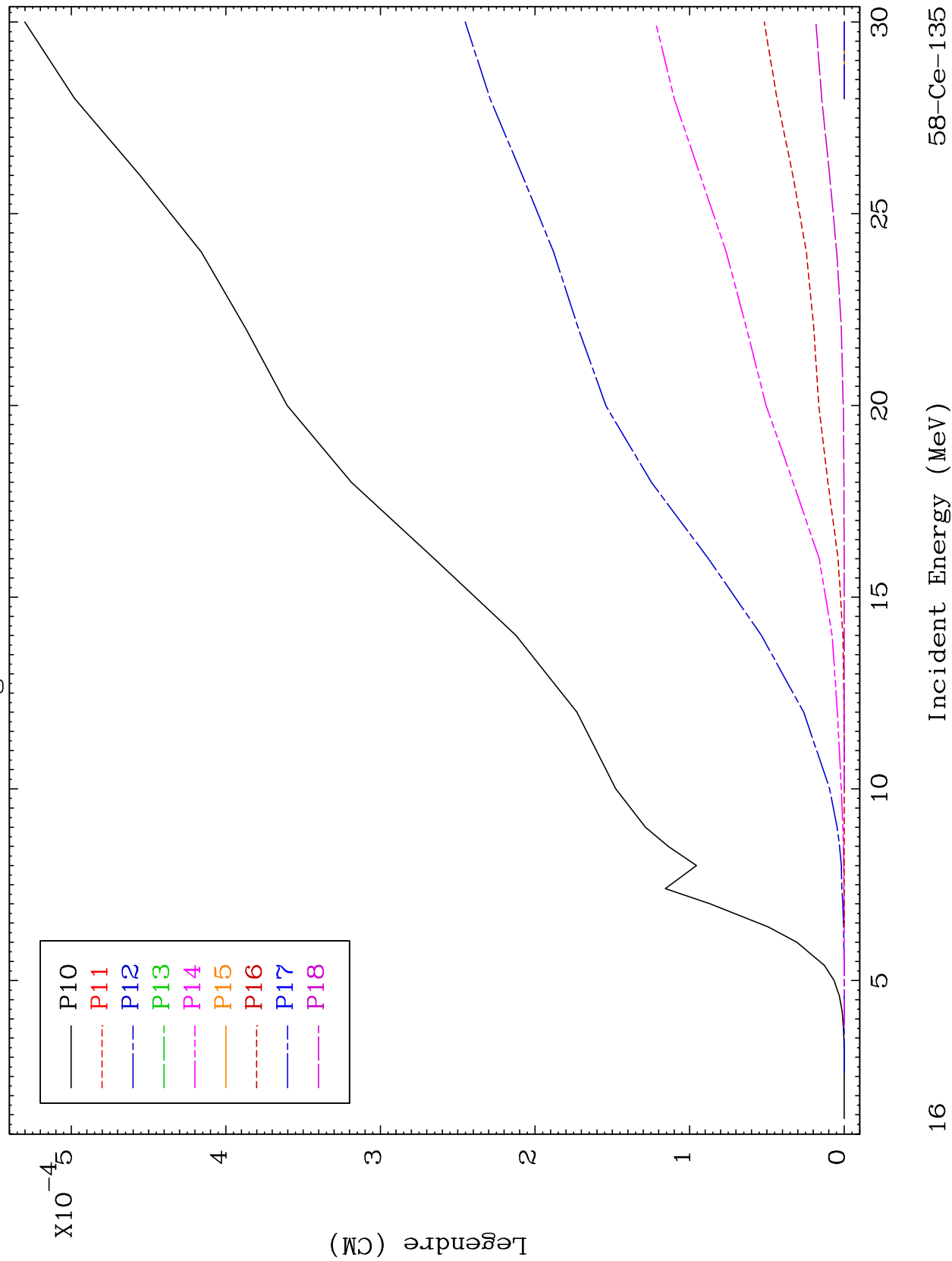




MAT 5823

Elastic Legendre Coefficients

58-Ce-135



16

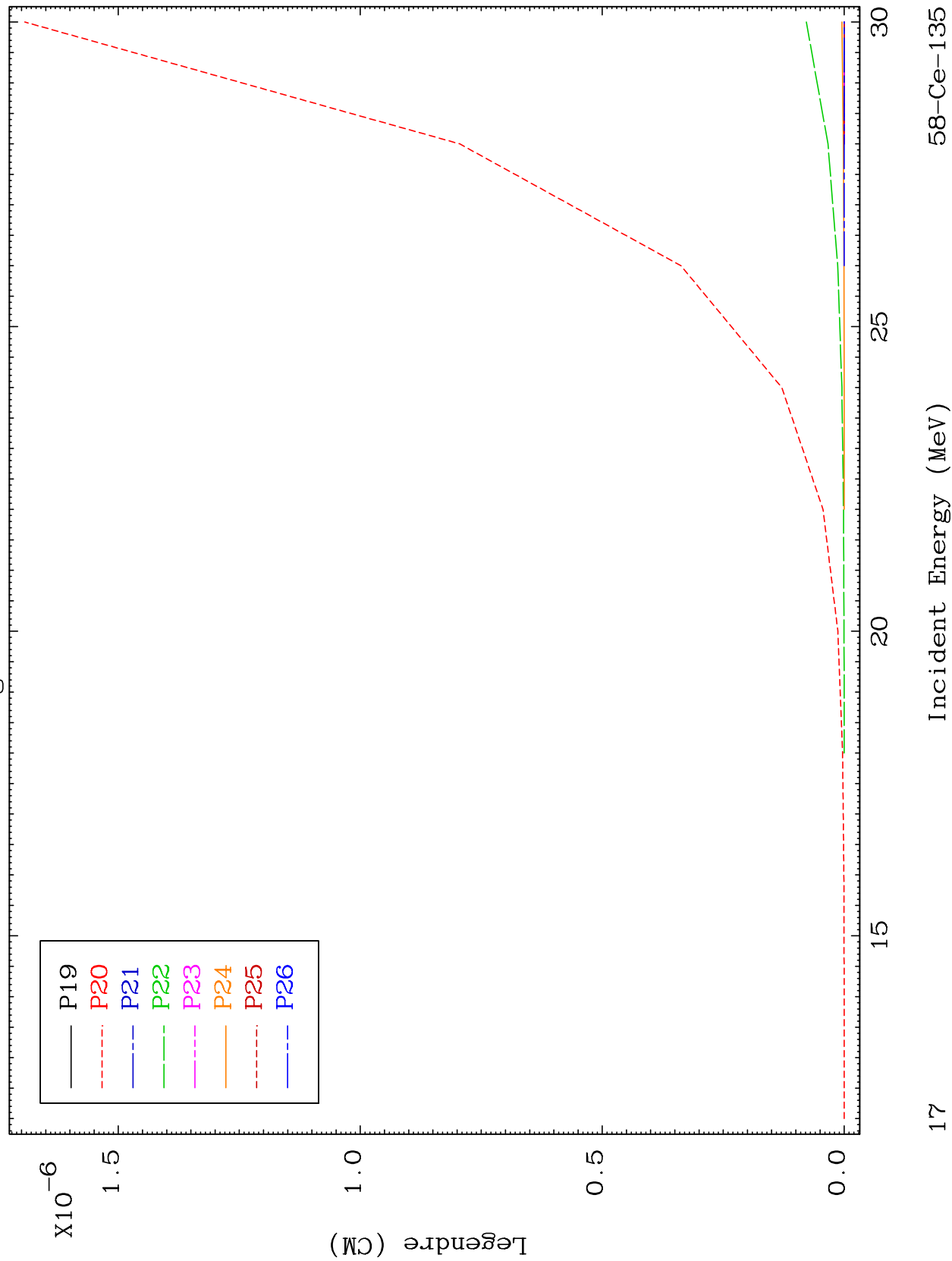
Incident Energy (MeV)

58-Ce-135

MAT 5823

Elastic Legendre Coefficients

58-Ce-135



17

Incident Energy (MeV)

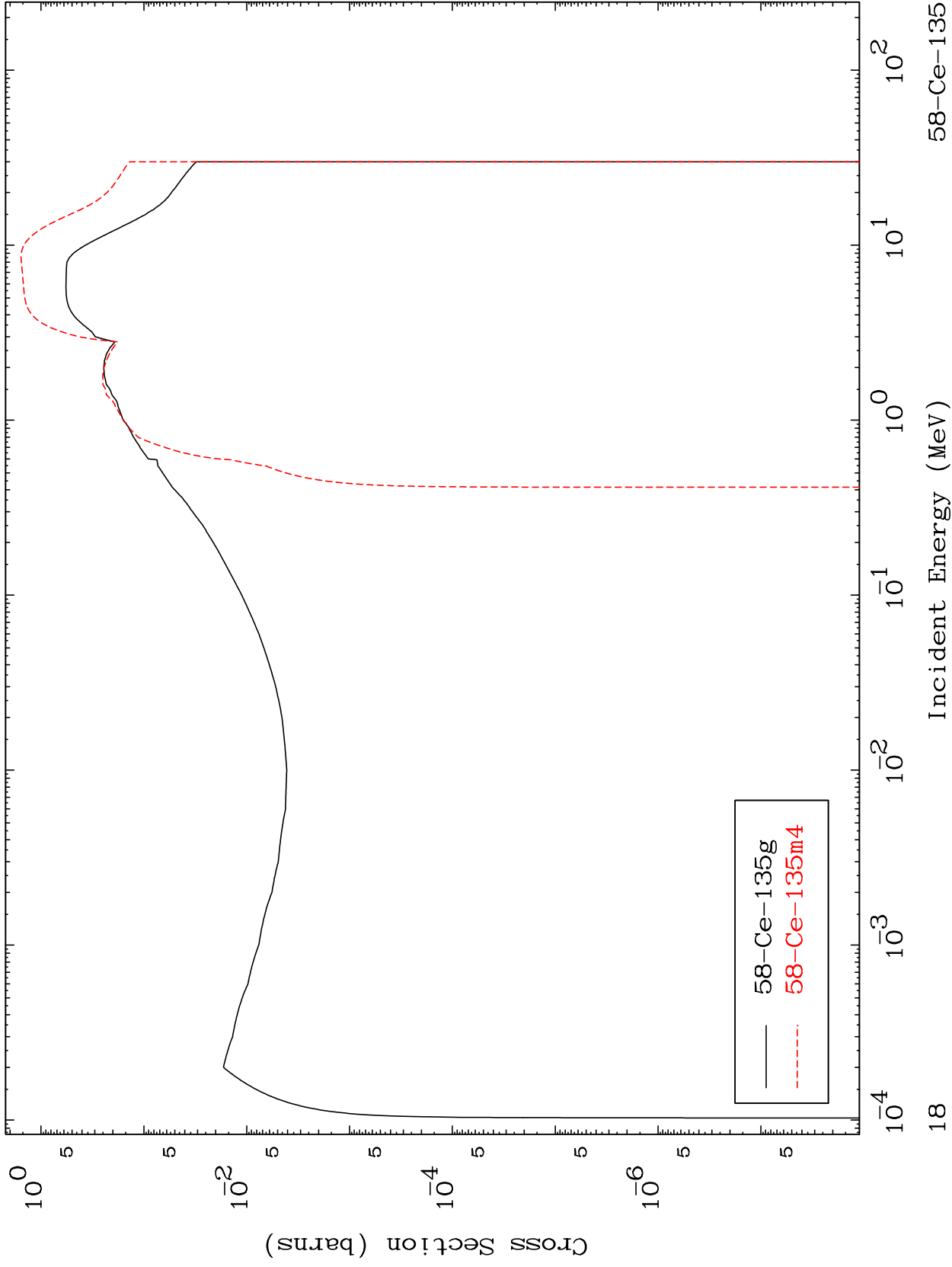
58-Ce-135

MAT 5823

Inelastic

58-Ce-135

Radionuclide Production Cross Section



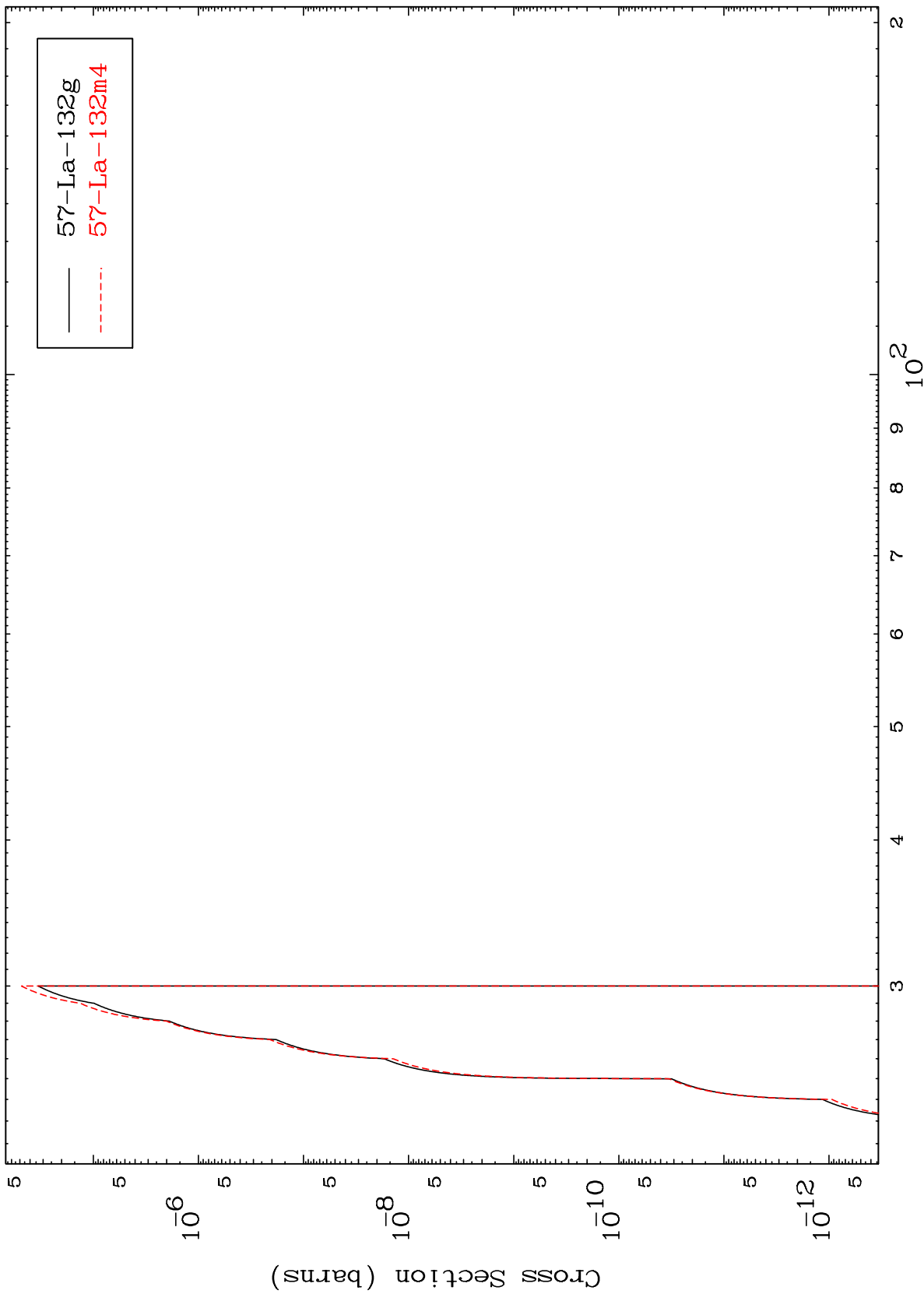
18

MAT 5823

(n,2n) d

58-Ce-135

Radionuclide Production Cross Section



19

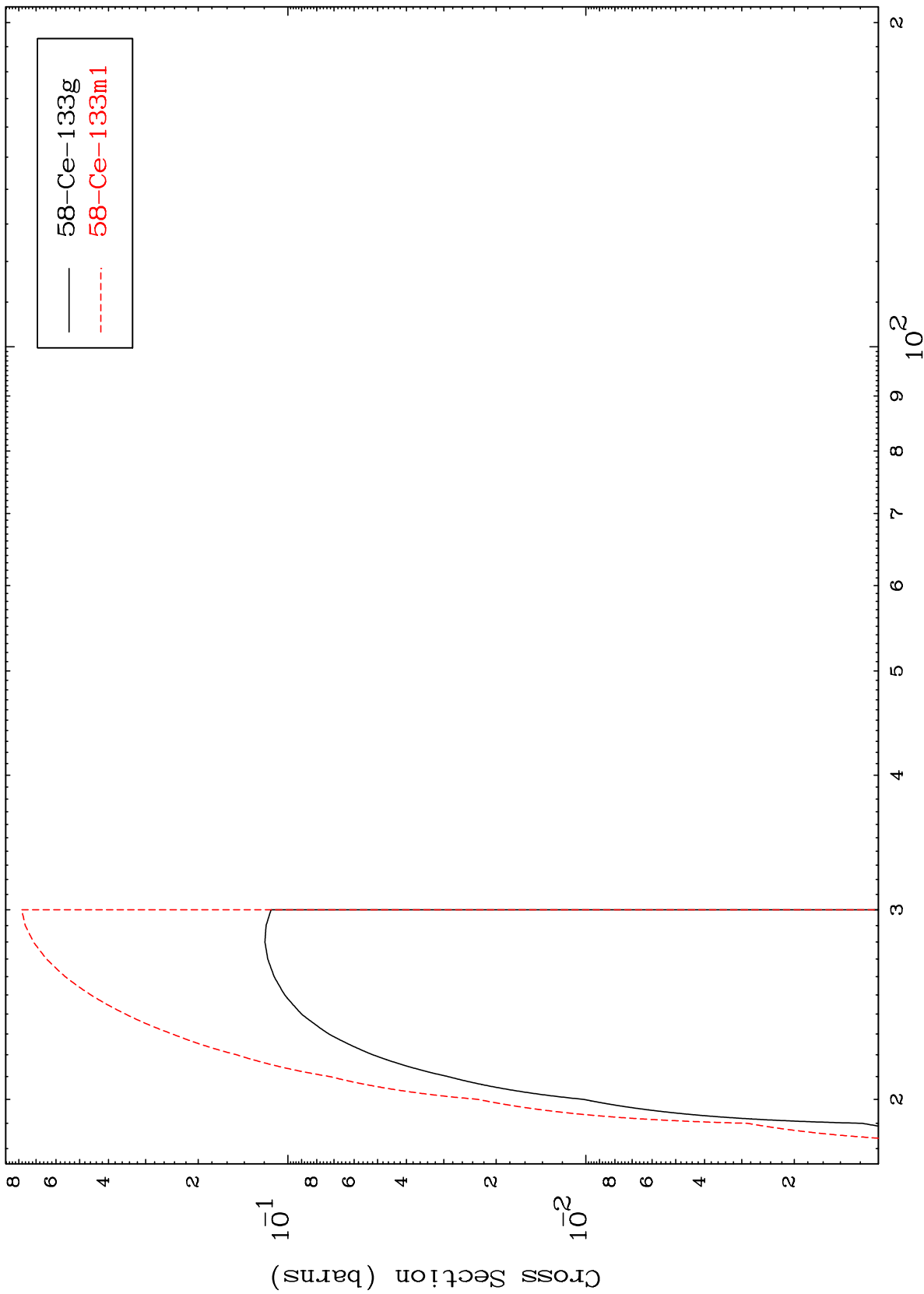
Incident Energy (MeV)

58-Ce-135

MAT 5823

58-Ce-135

(n,3n)
Radionuclide Production Cross Section



58-Ce-133g
58-Ce-133m1

58-Ce-135

Incident Energy (MeV)

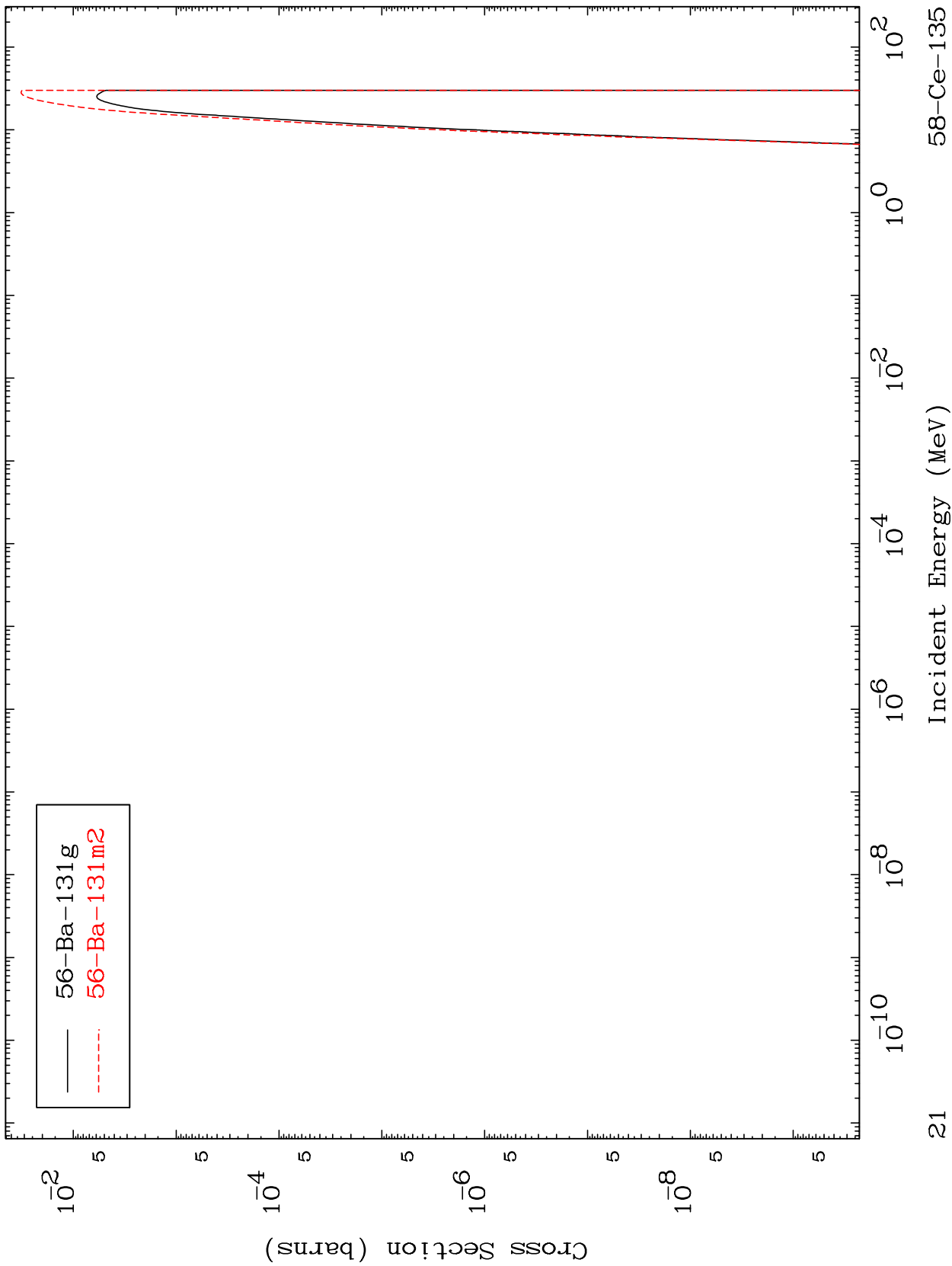
20

MAT 5823

$(n, n') \alpha$

58-Ce-135

Radionuclide Production Cross Section

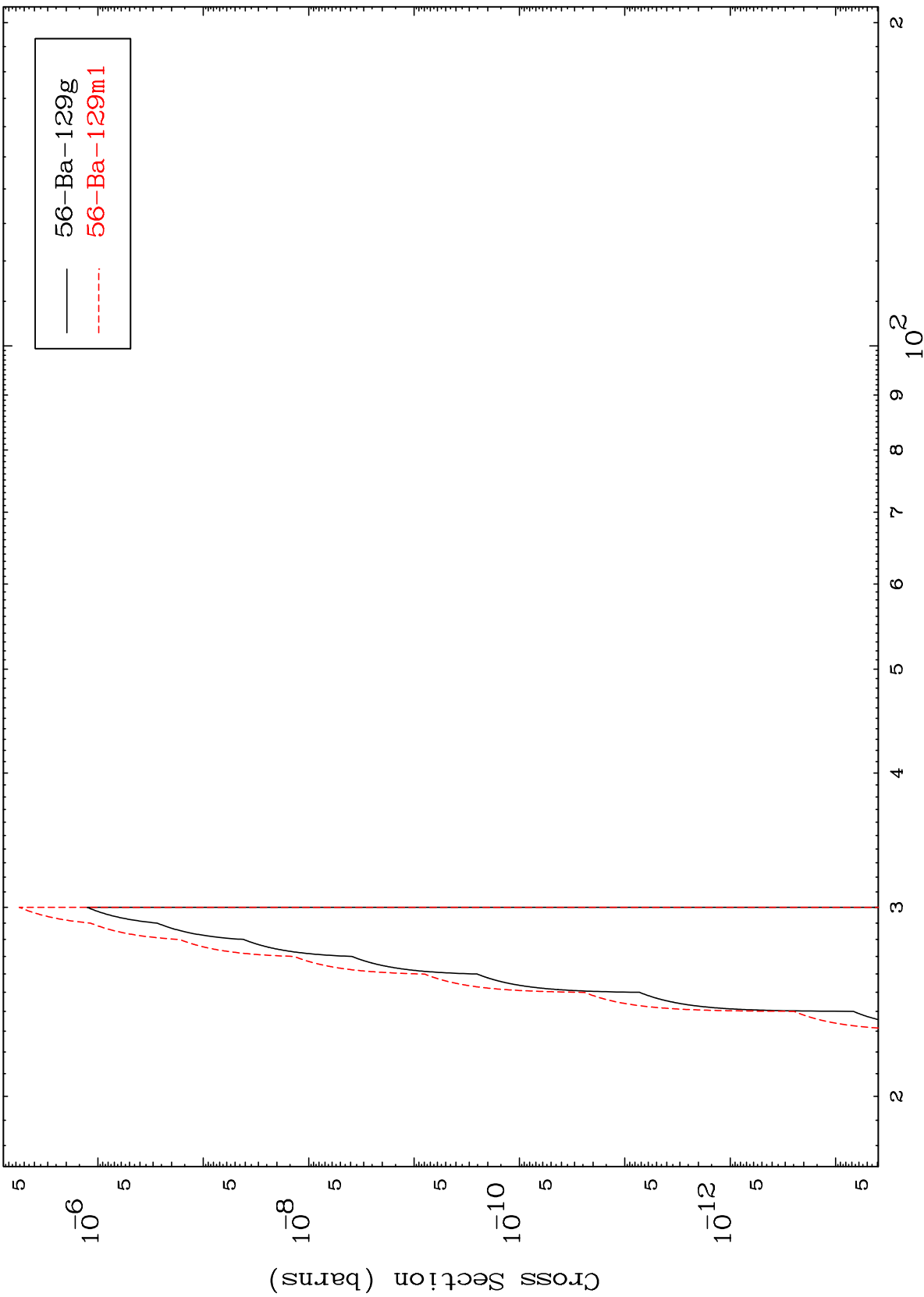


MAT 5823

(n,3n) α

58-Ce-135

Radionuclide Production Cross Section

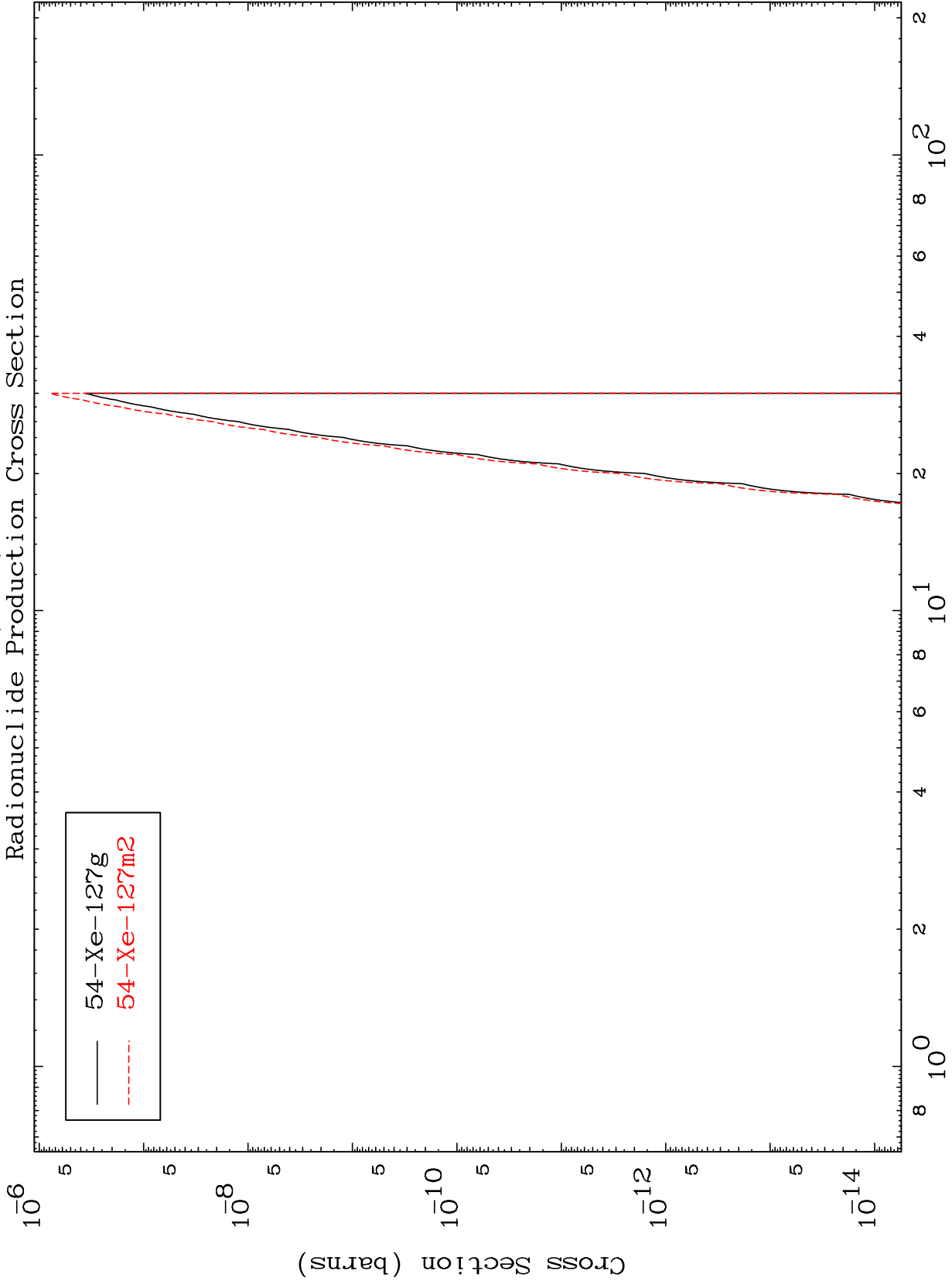


MAT 5823

(n,n') 2α

58-Ce-135

Radionuclide Production Cross Section



23

Incident Energy (MeV)

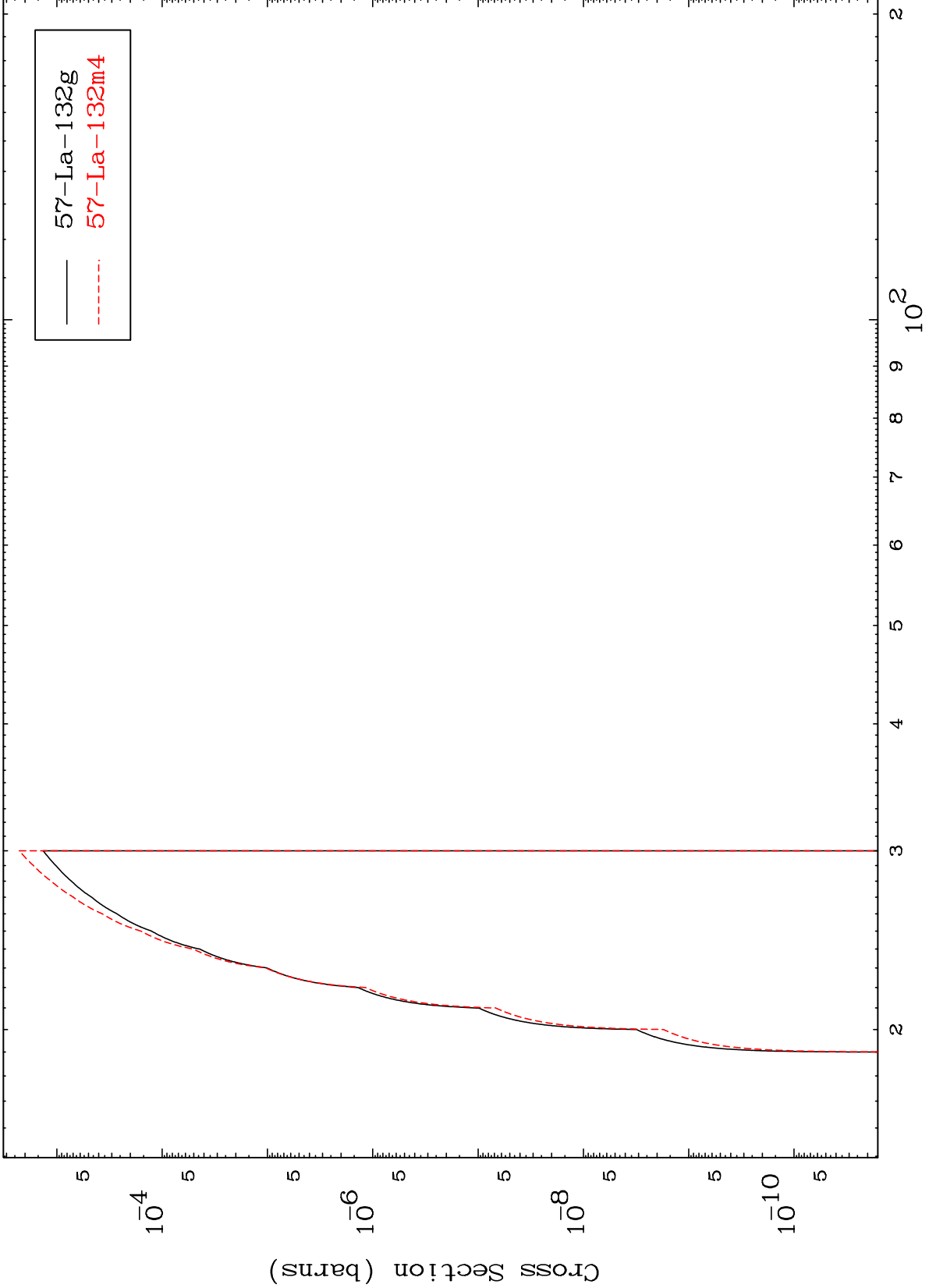
58-Ce-135

MAT 5823

(n,n') t

58-Ce-135

Radionuclide Production Cross Section



24

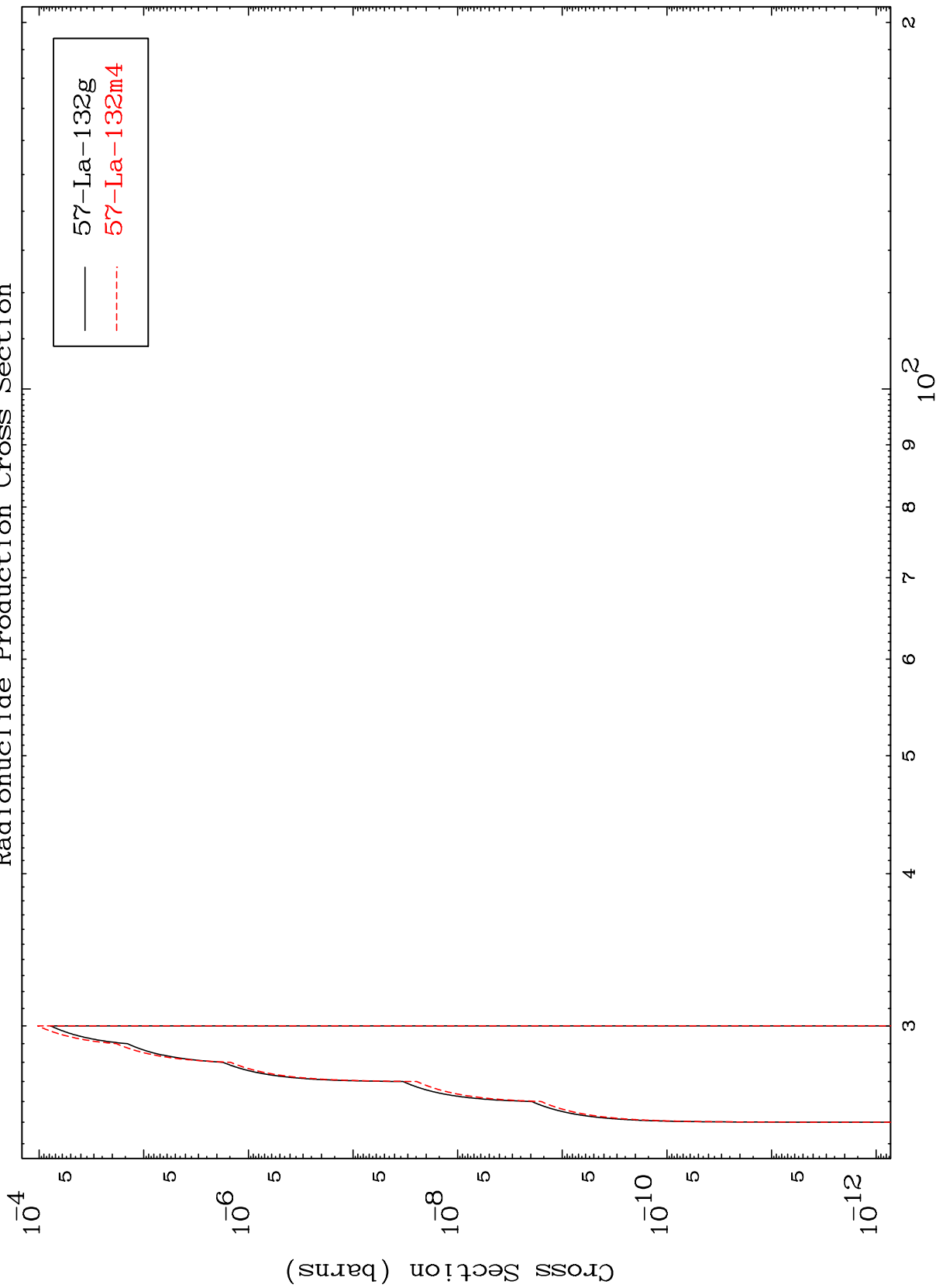
Incident Energy (MeV)

58-Ce-135

MAT 5823

58-Ce-135

(n,3n) p
Radionuclide Production Cross Section

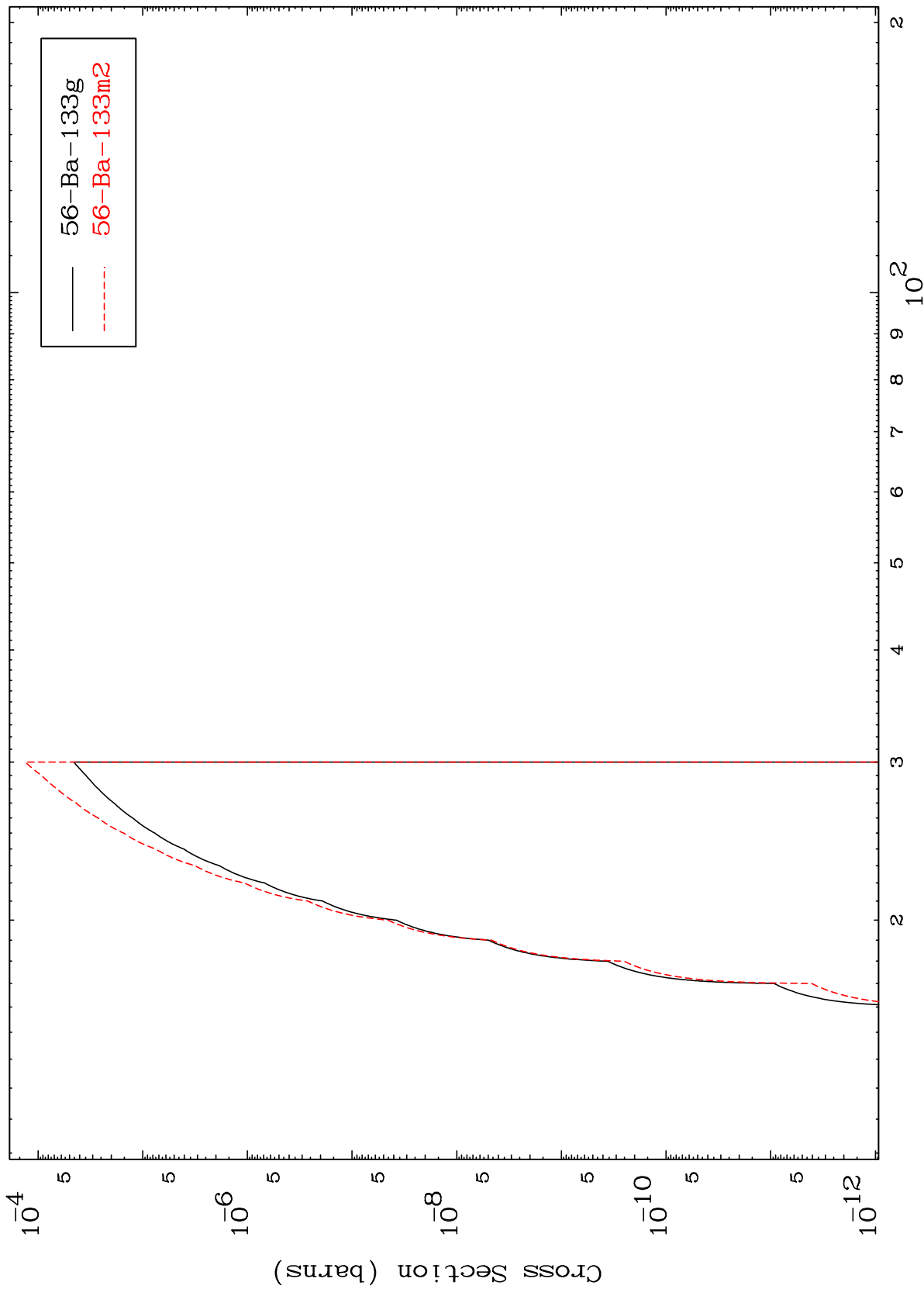


25

58-Ce-135

Incident Energy (MeV)

Radionuclide Production Cross Section

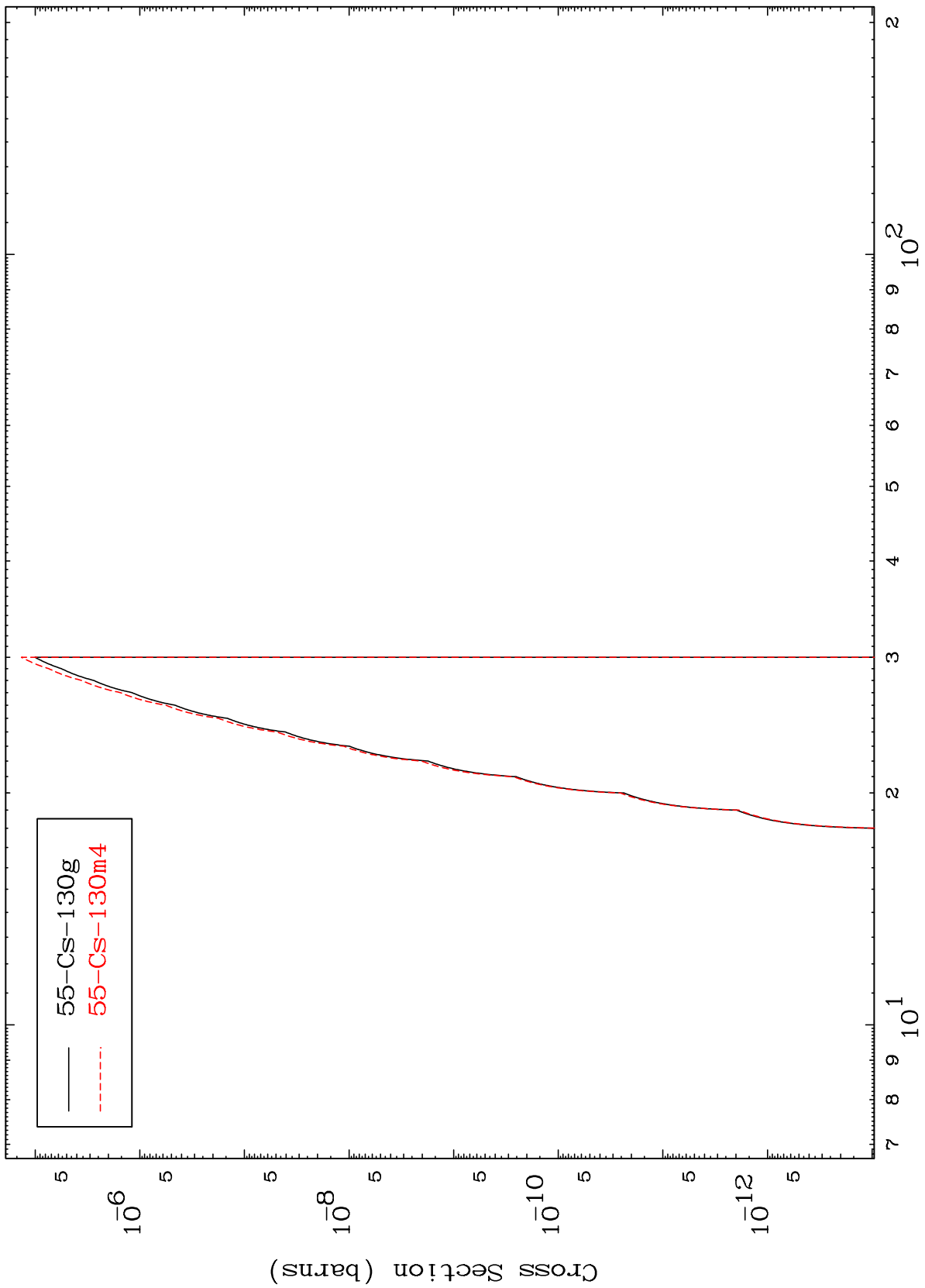


MAT 5823

(n,n') p α

58-Ce-135

Radionuclide Production Cross Section



27

Incident Energy (MeV)

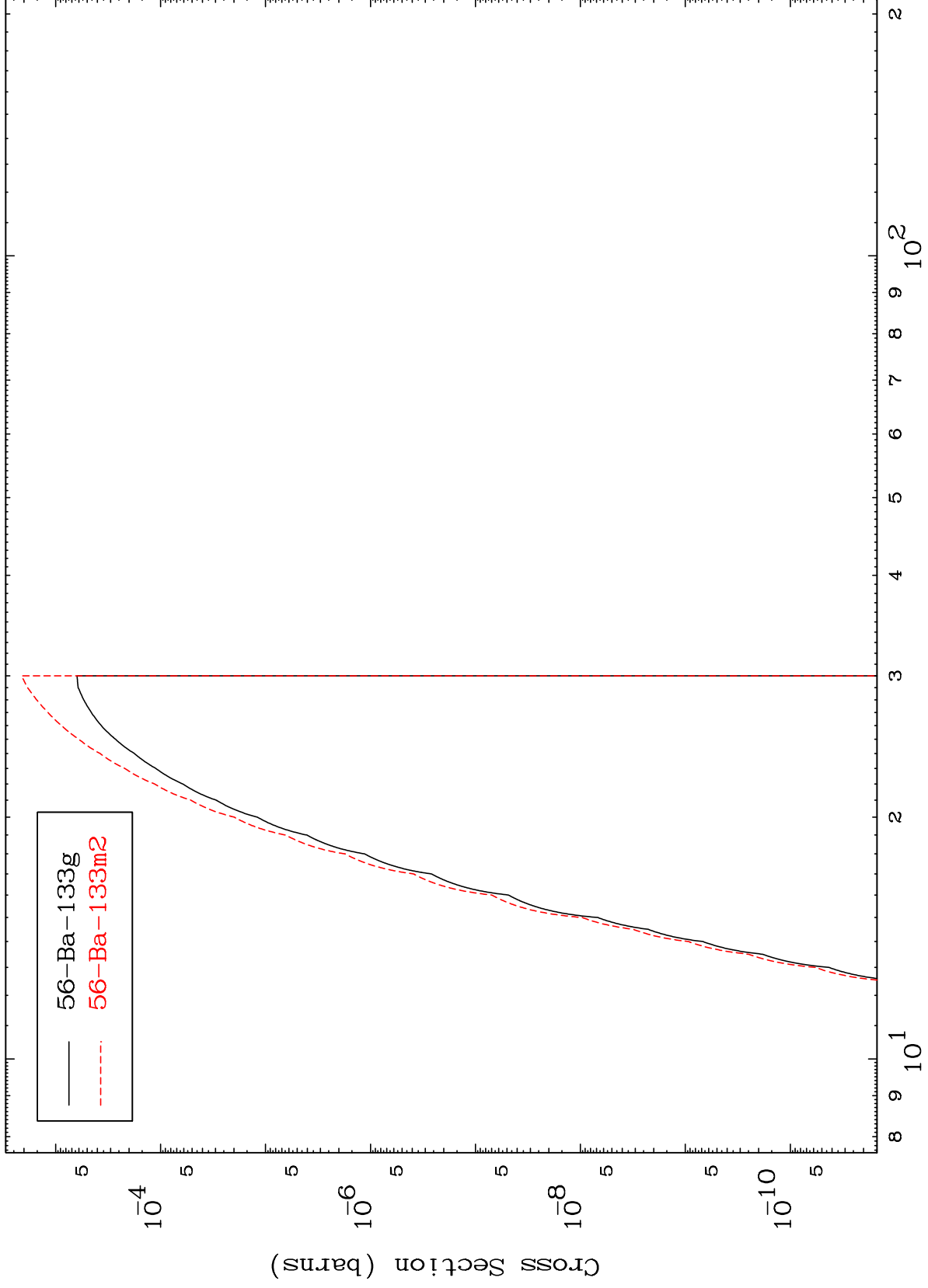
58-Ce-135

MAT 5823

(n,He-3)

58-Ce-135

Radionuclide Production Cross Section



28

Incident Energy (MeV)

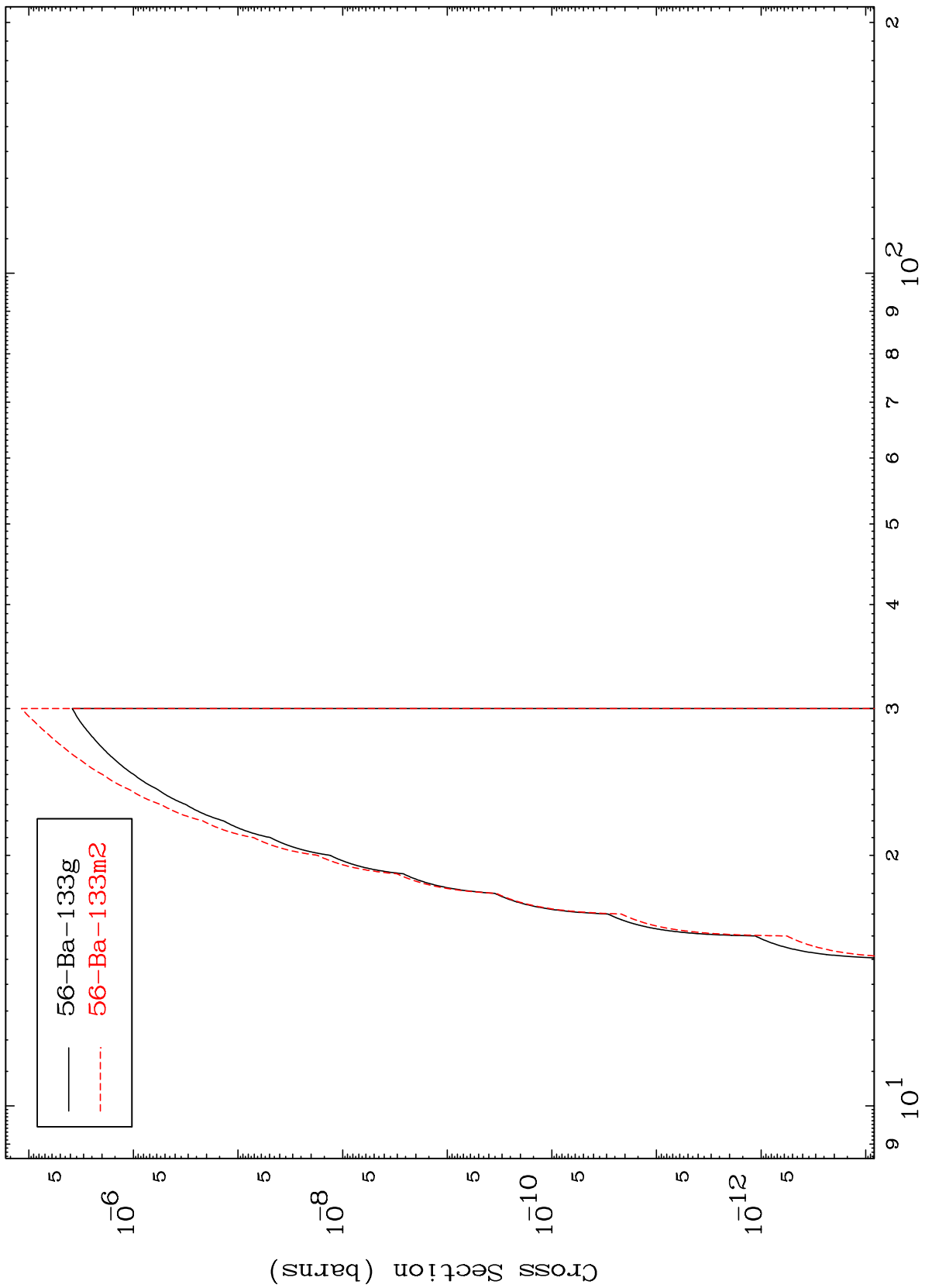
58-Ce-135

MAT 5823

(n,p) d

58-Ce-135

Radionuclide Production Cross Section



29

Incident Energy (MeV)

58-Ce-135

Radionuclide Production Cross Section

