

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

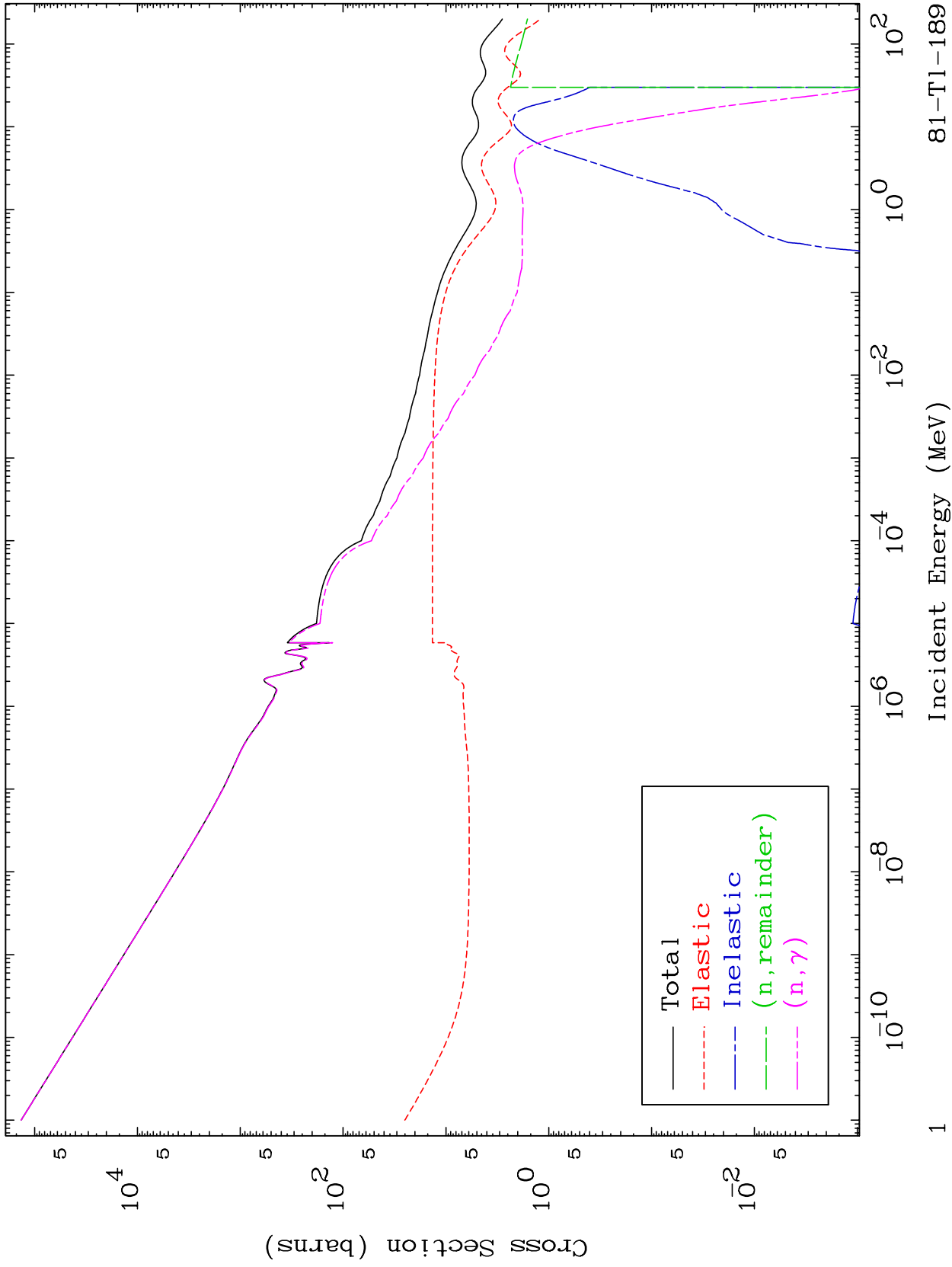
Press Mouse Button to Start

MAT 8084

Major

293 Kelvin Cross Sections

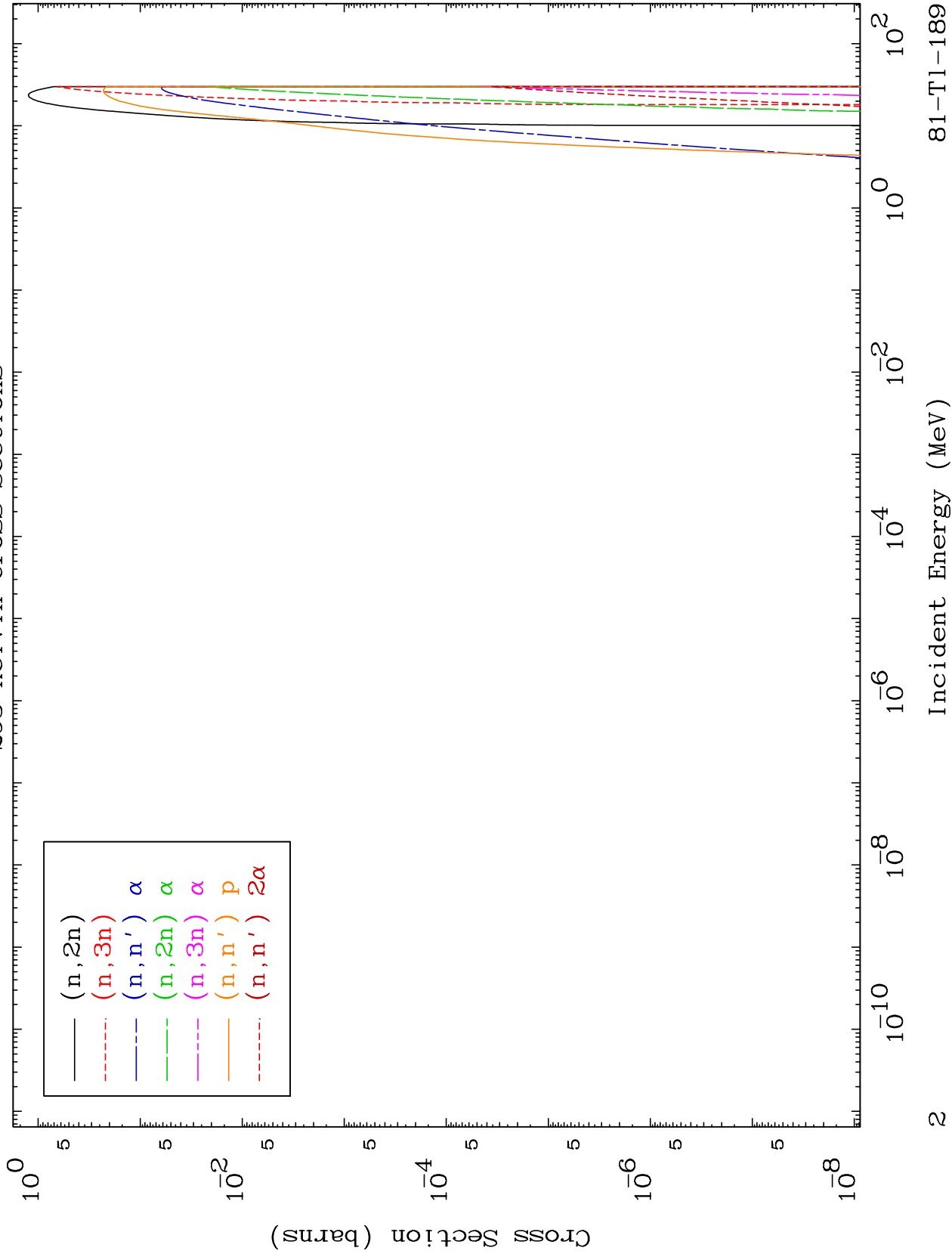
81-Tl-189



MAT 8084

Neutron Production
293 Kelvin Cross Sections

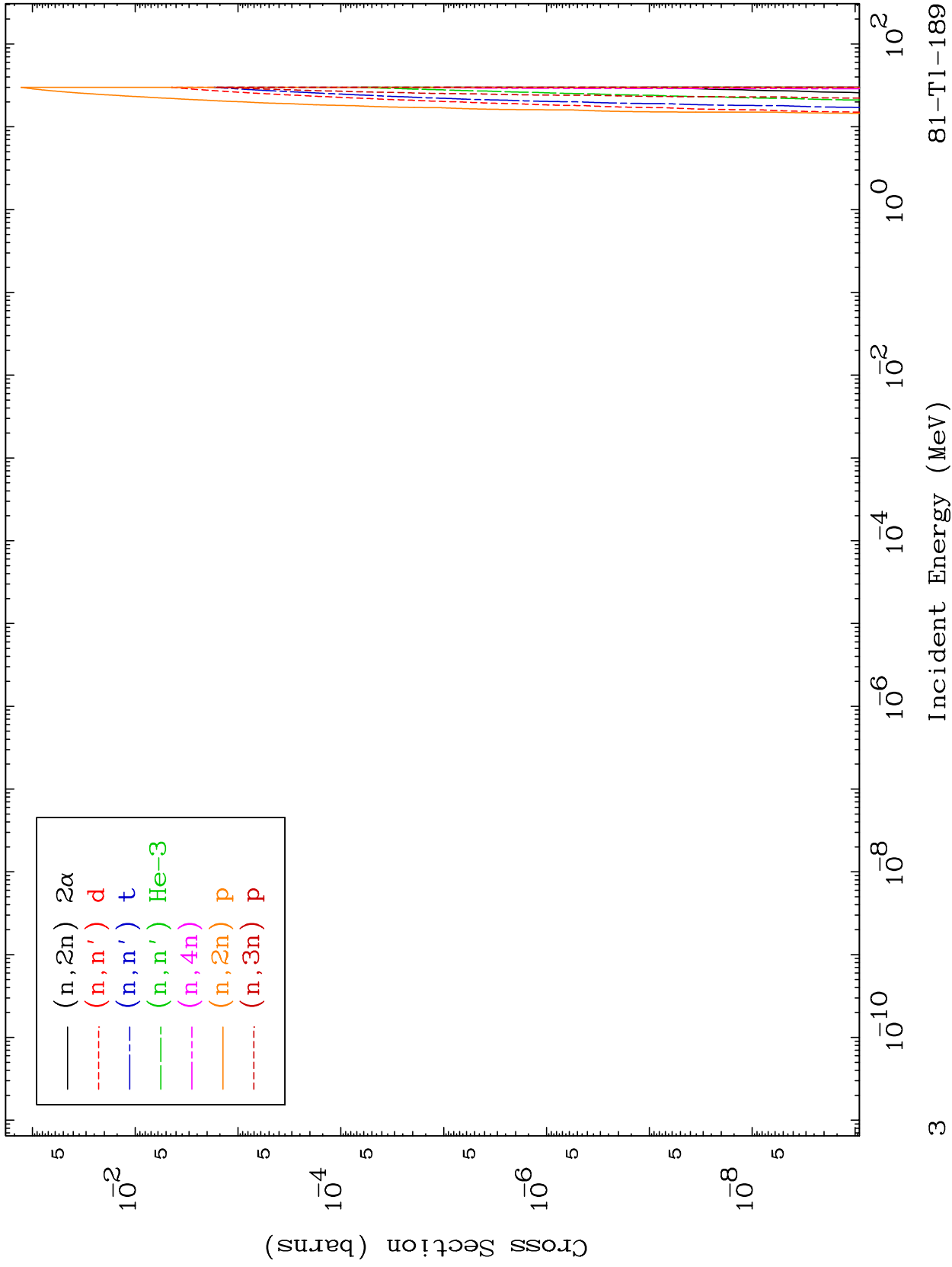
81-Tl-189



MAT 8084

Neutron Production
293 Kelvin Cross Sections

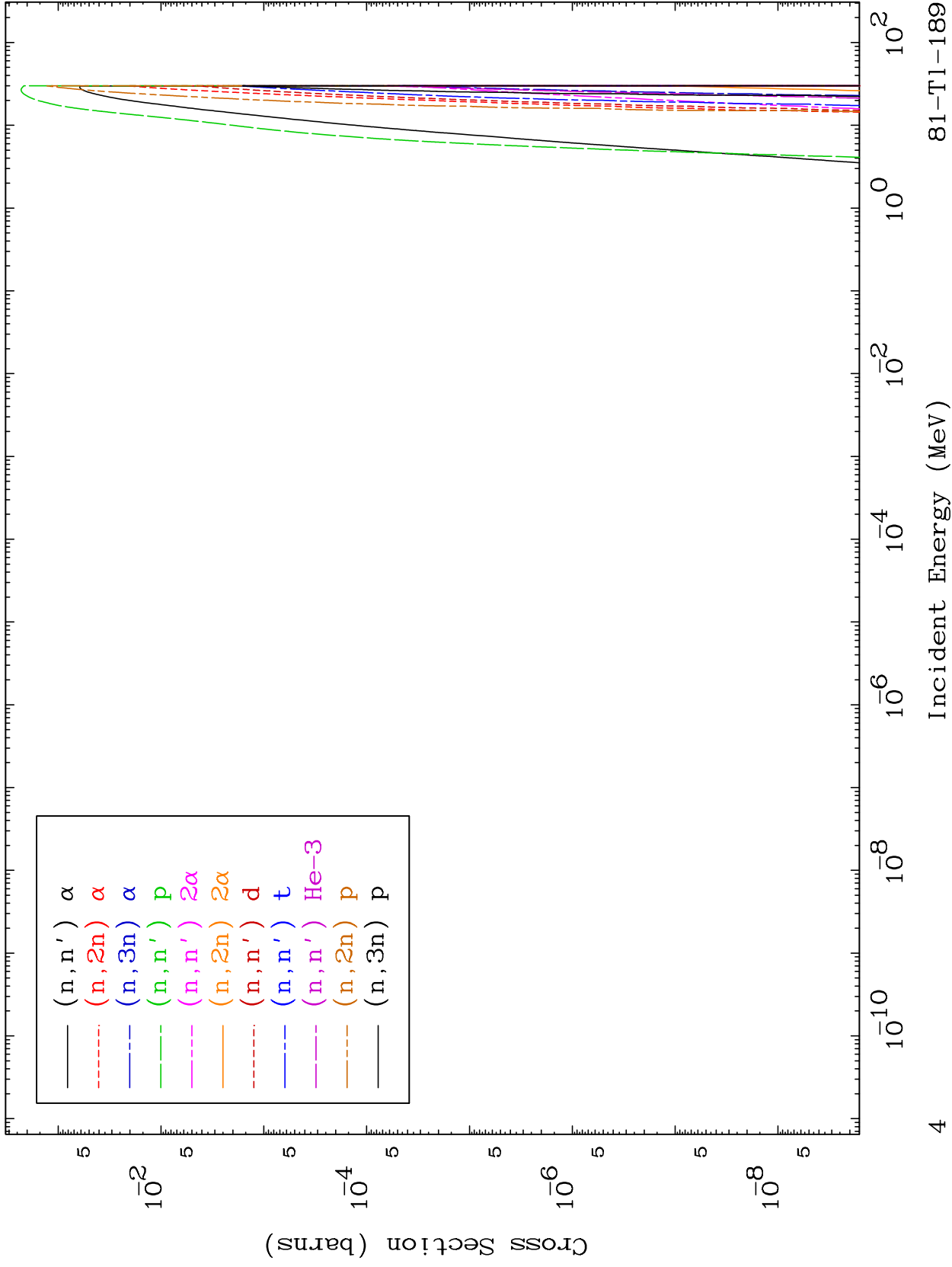
81-Tl-189



MAT 8084

Charged Particle
293 Kelvin Cross Sections

81-Tl-189

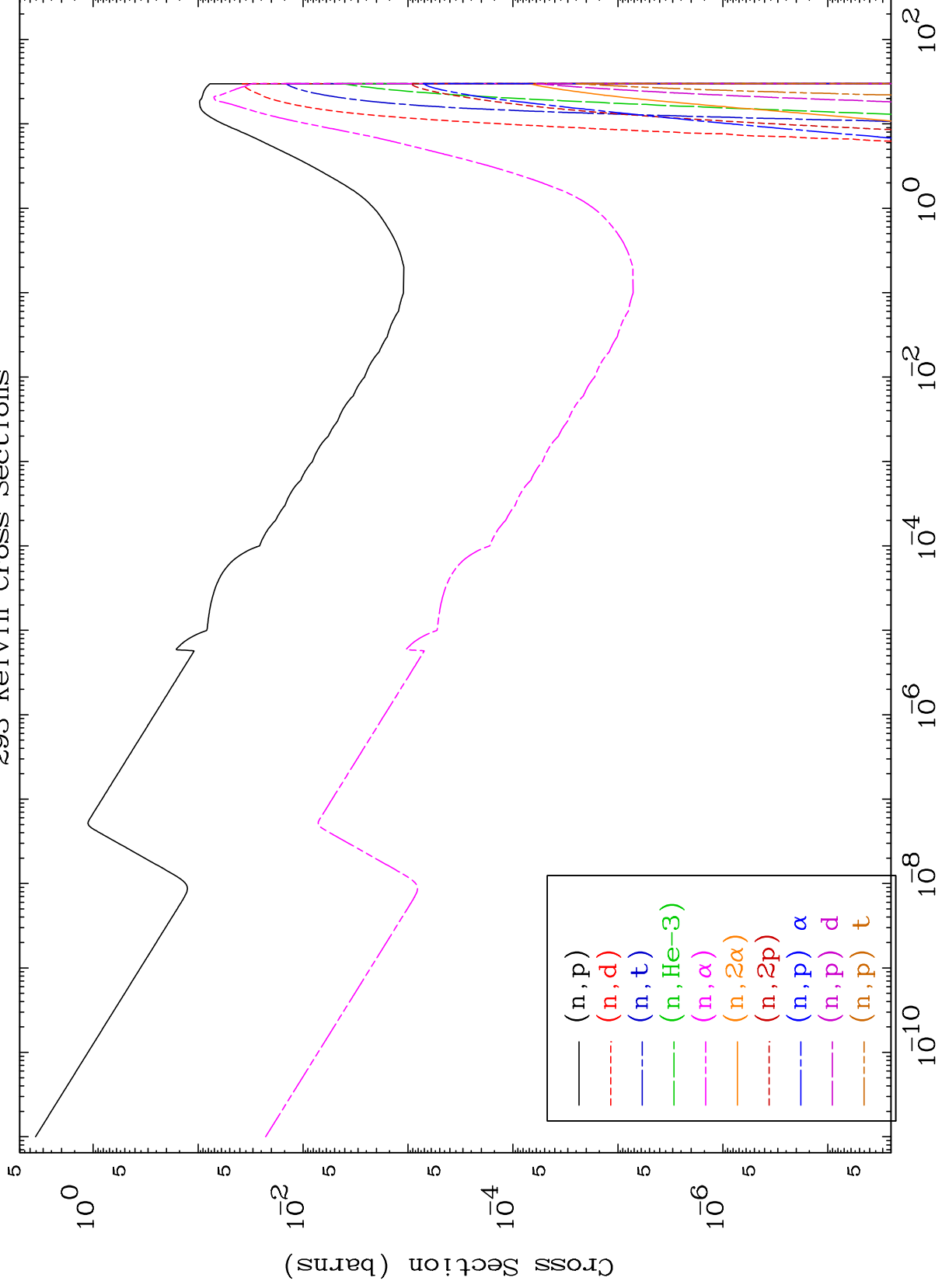


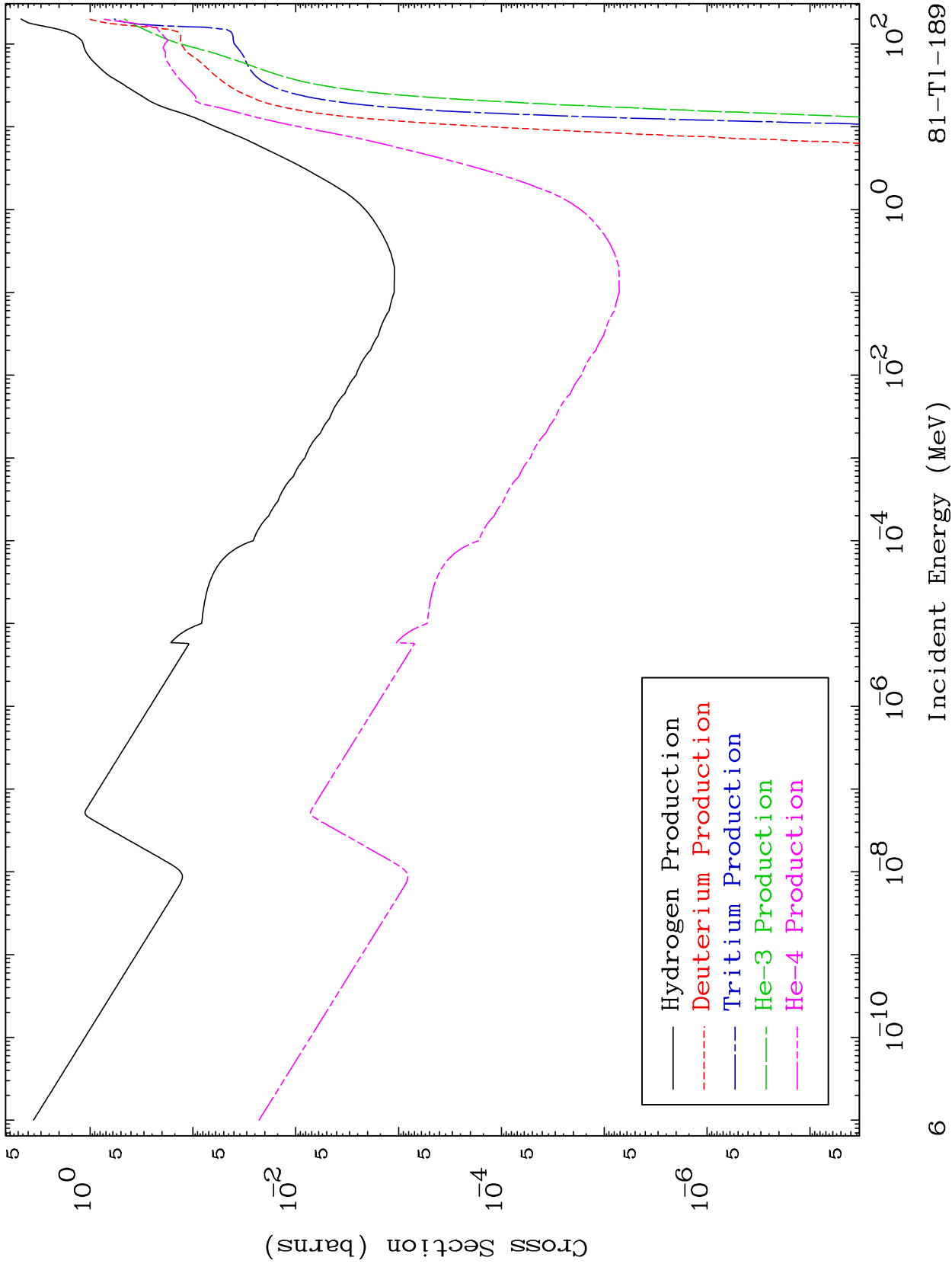
81-Tl-189

MAT 8084

Charged Particle
293 Kelvin Cross Sections

81-Tl-189



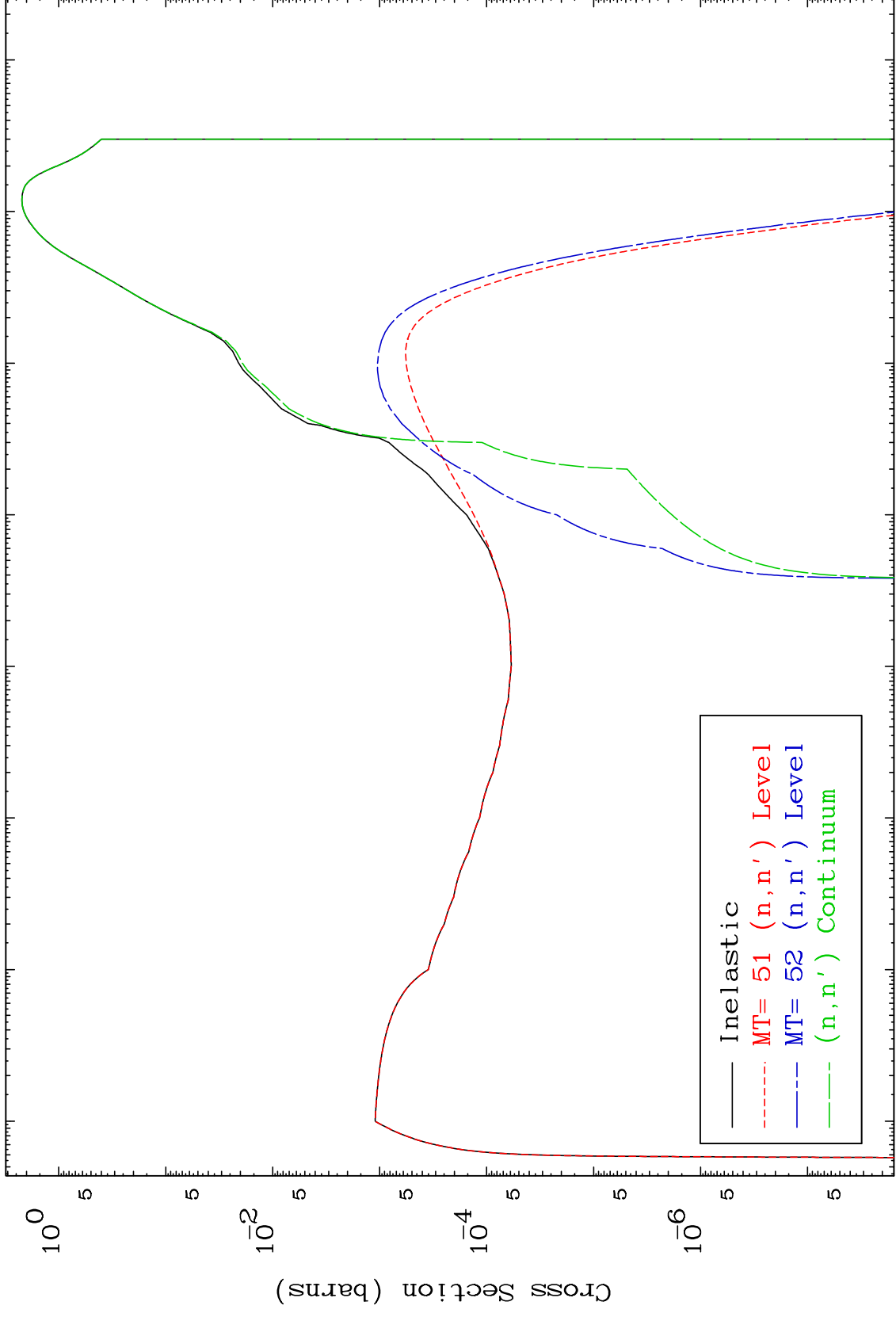


MAT 8084

(n,n') Level

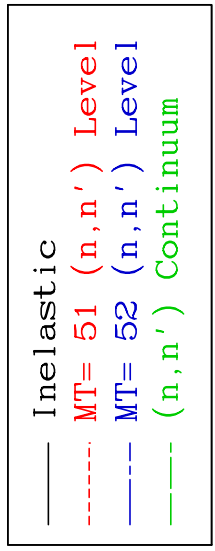
293 Kelvin Cross Sections

81-Tl-189



81-Tl-189

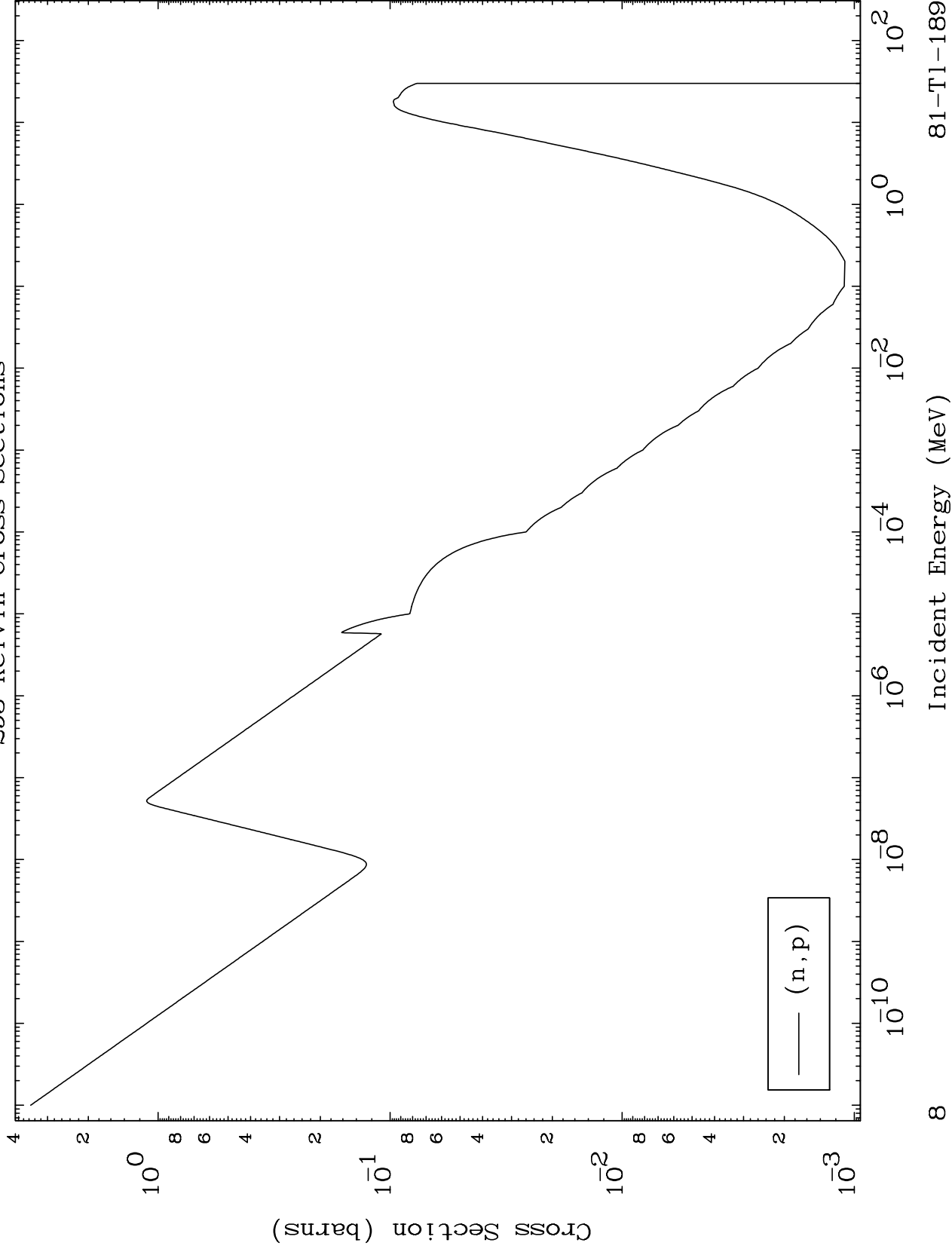
Incident Energy (MeV)



MAT 8084

(n,p) Levels
293 Kelvin Cross Sections

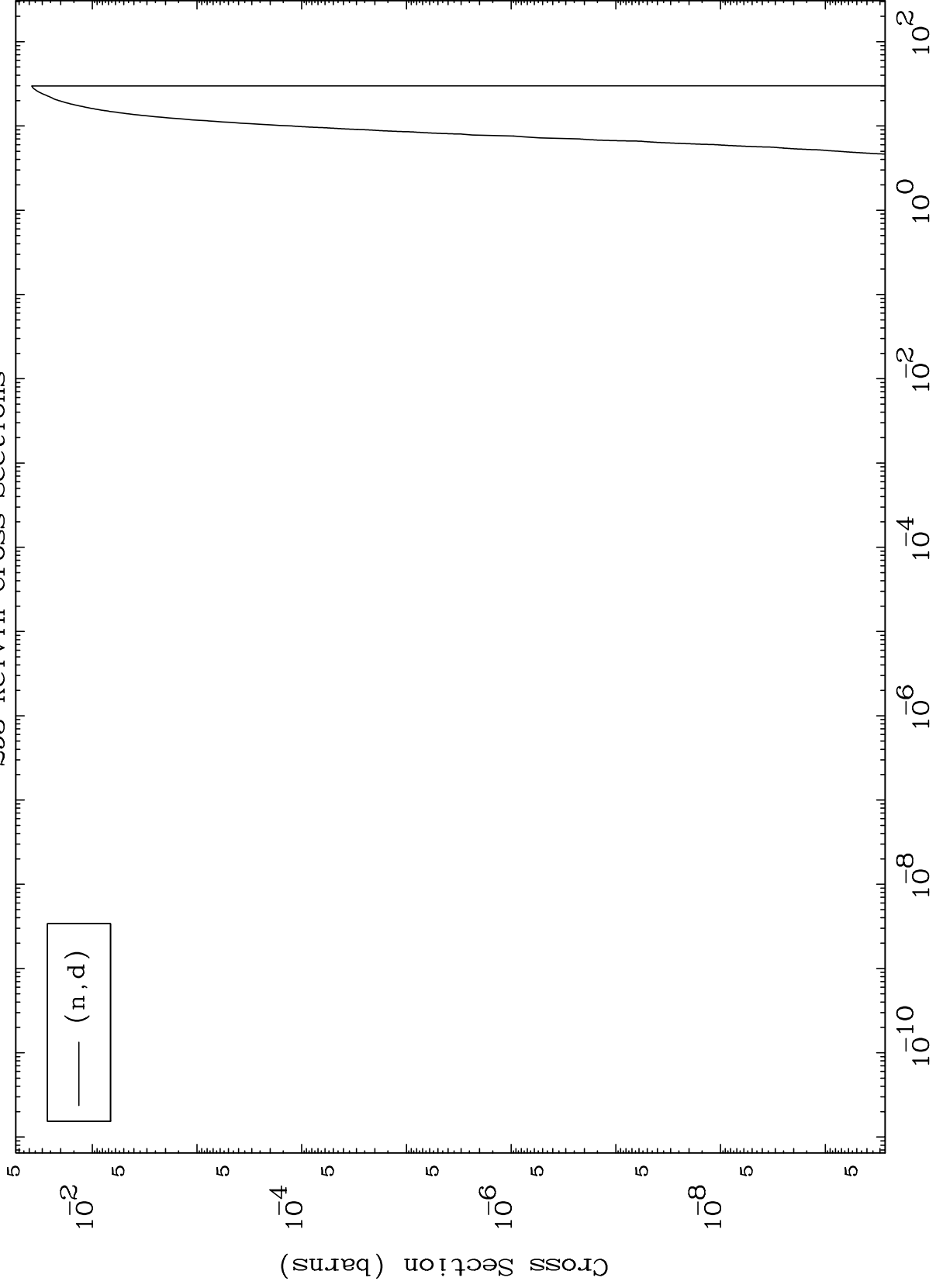
81-Tl-189



MAT 8084

(n,d) Levels
293 Kelvin Cross Sections

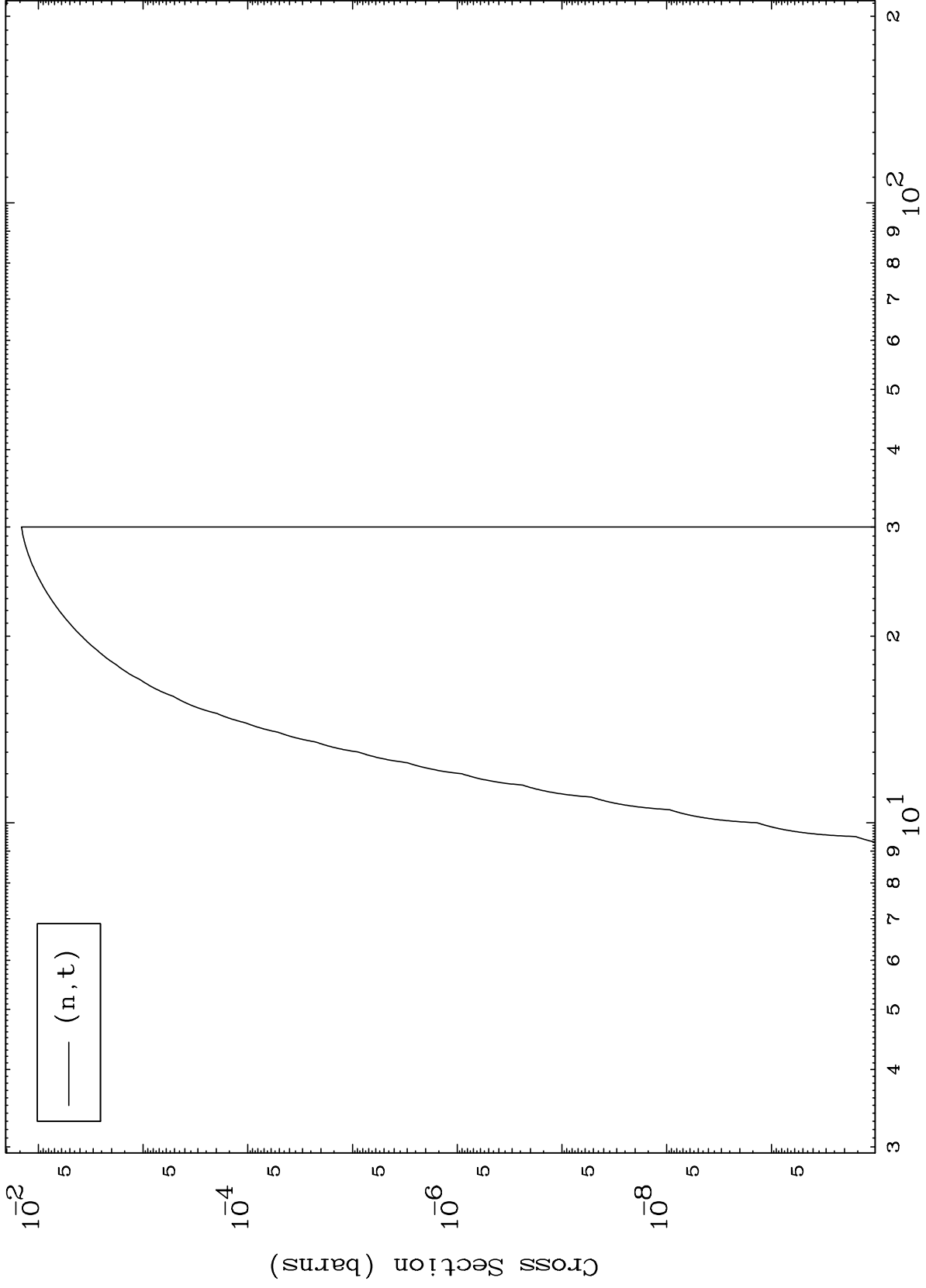
81-Tl-189



MAT 8084

(n,t) Levels
293 Kelvin Cross Sections

81-Tl-189



10

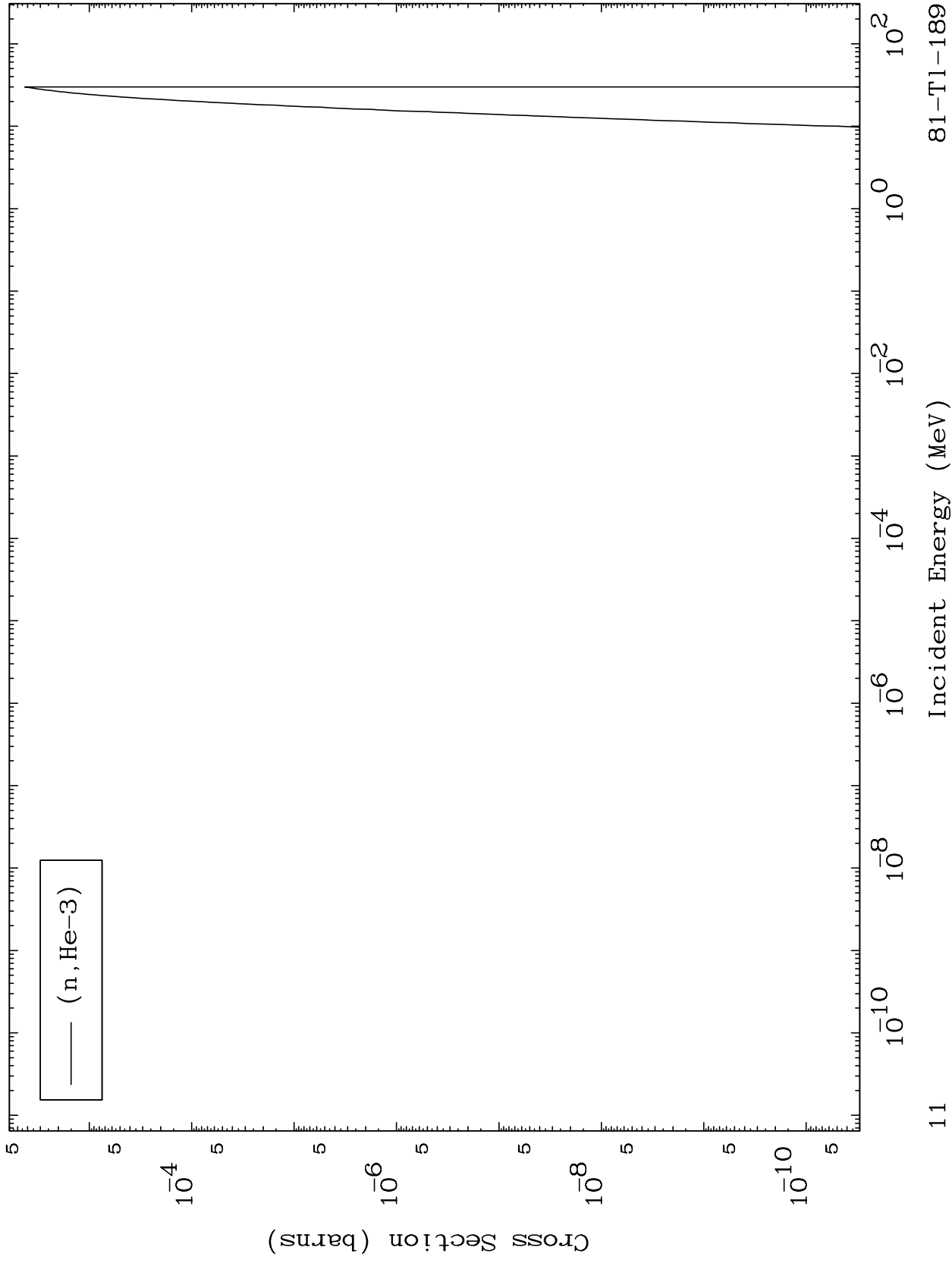
Incident Energy (MeV)

81-Tl-189

MAT 8084

(n,He3) Levels
293 Kelvin Cross Sections

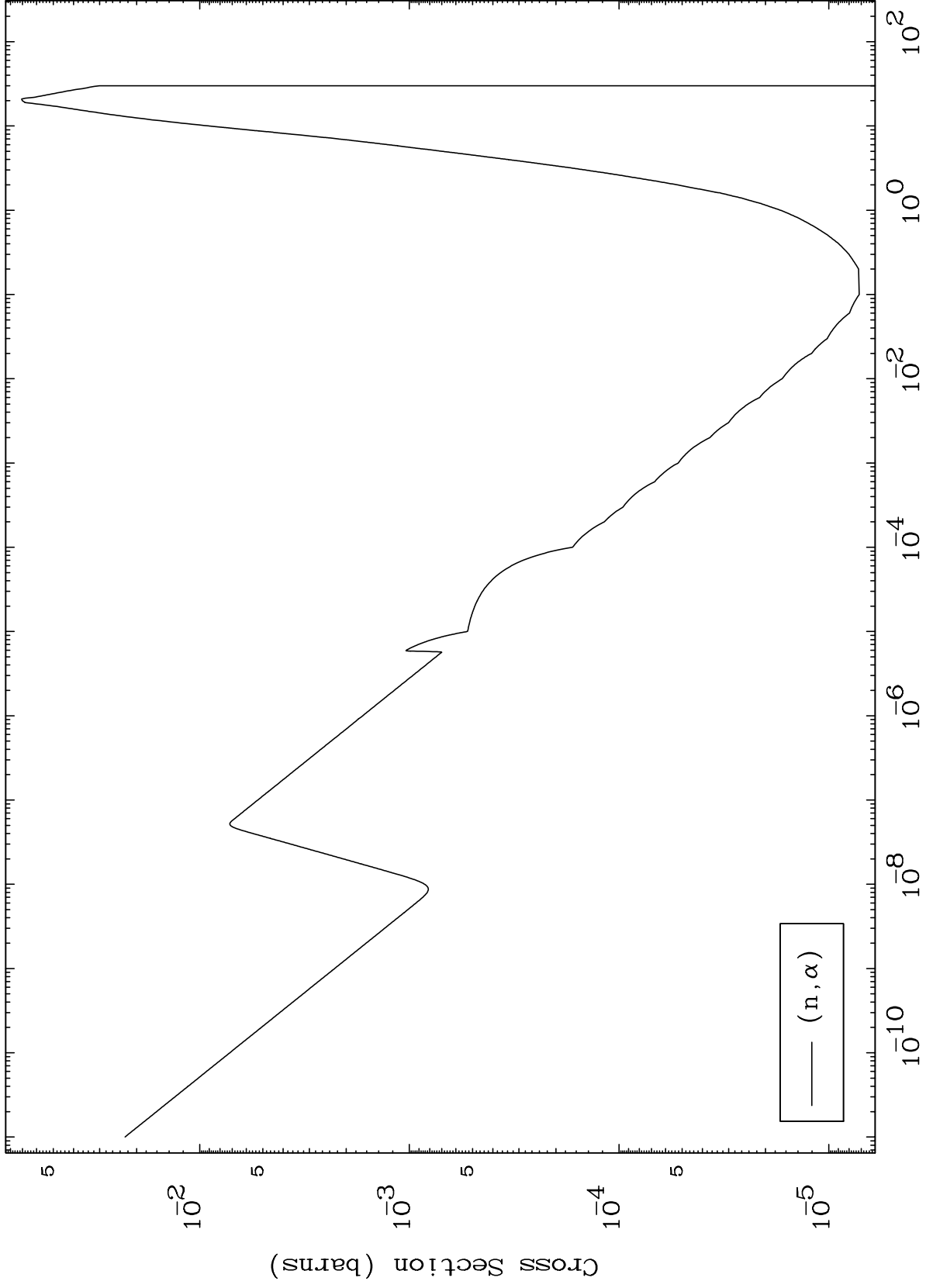
81-Tl-189



MAT 8084

(n,α) Levels
293 Kelvin Cross Sections

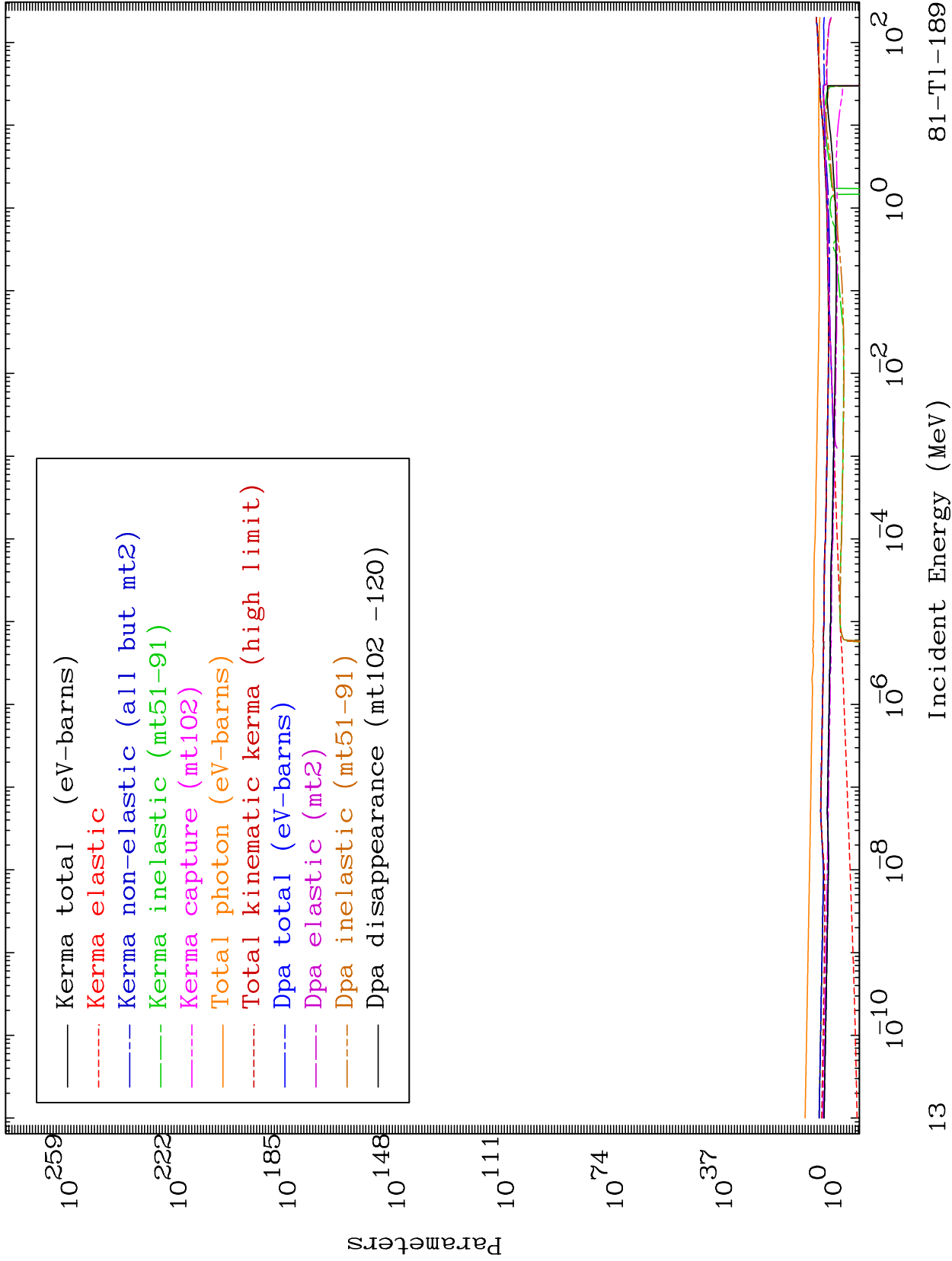
81-Tl-189



12

Incident Energy (MeV)

81-Tl-189



MAT 8084

Elastic Legendre Coefficients

81-T1-189



14

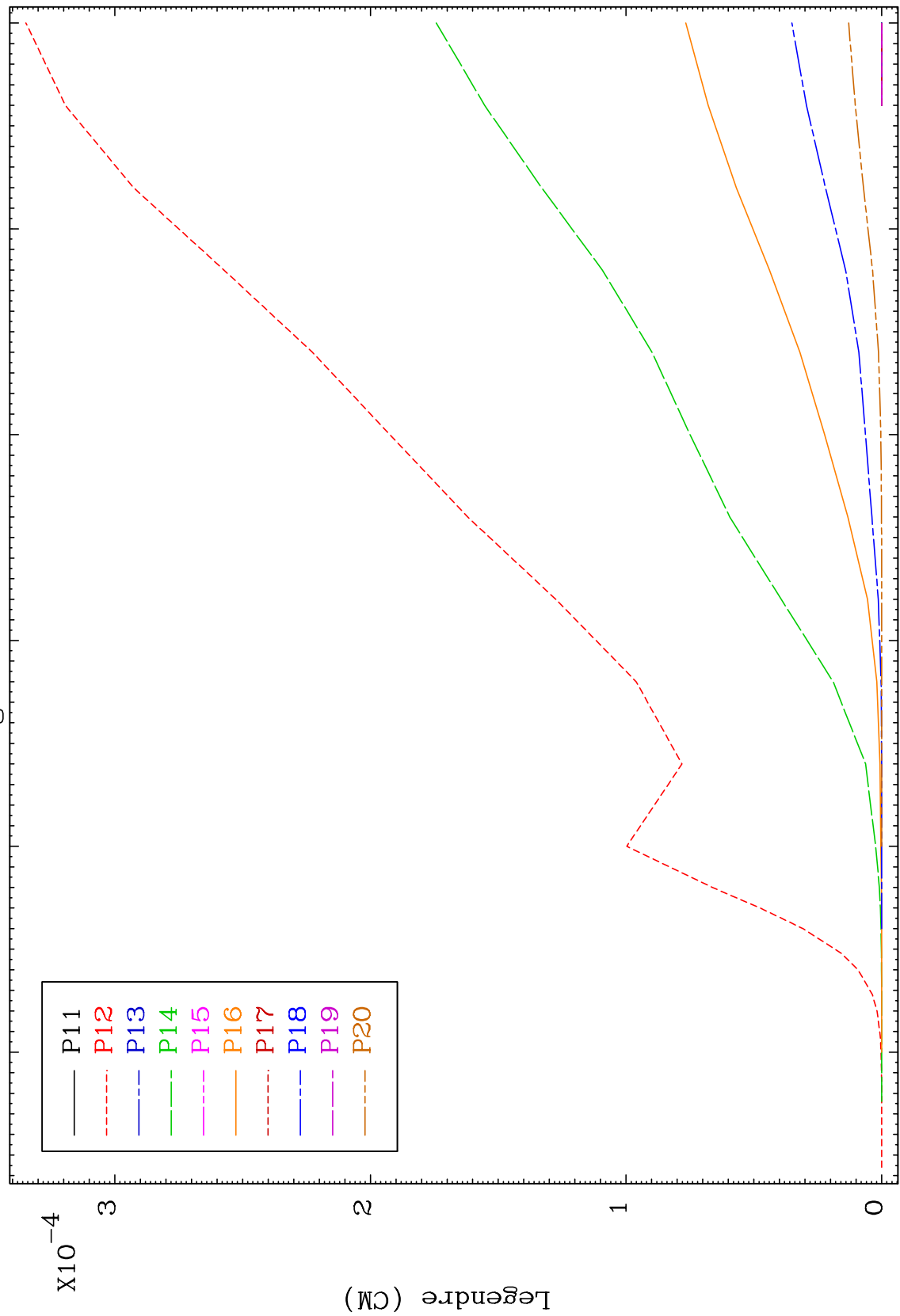
Incident Energy (MeV)

81-T1-189

MAT 8084

Elastic
Legendre Coefficients

81-Tl-189



15

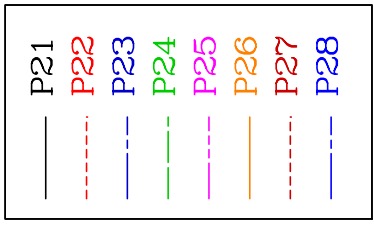
Incident Energy (MeV)

81-Tl-189

MAT 8084

Elastic Legendre Coefficients

81-T1-189



$\times 10^{-6}$

1.5

1.0

0.5

0.0

Legendre (CM)

15

20

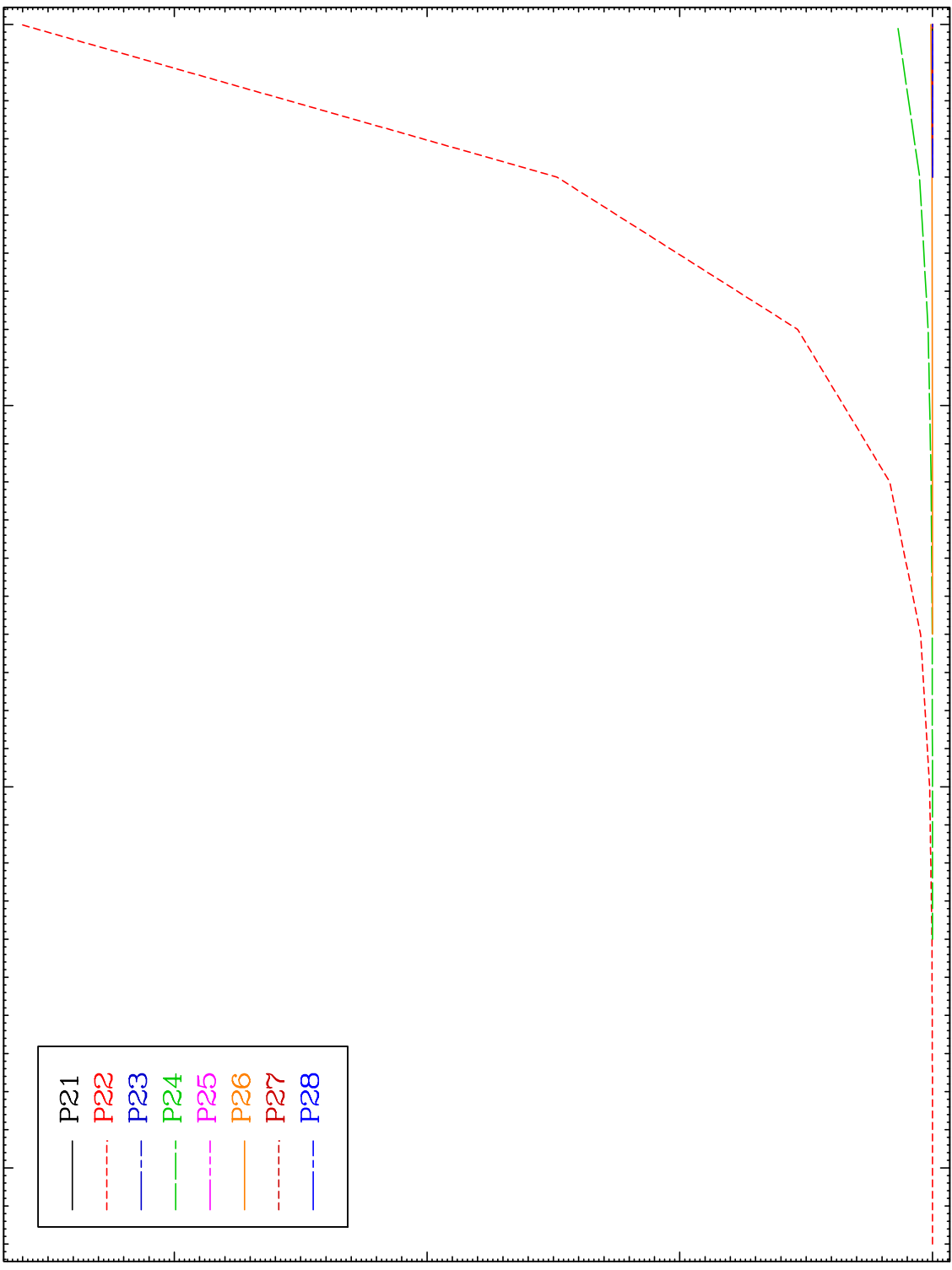
25

30

16

Incident Energy (MeV)

81-T1-189

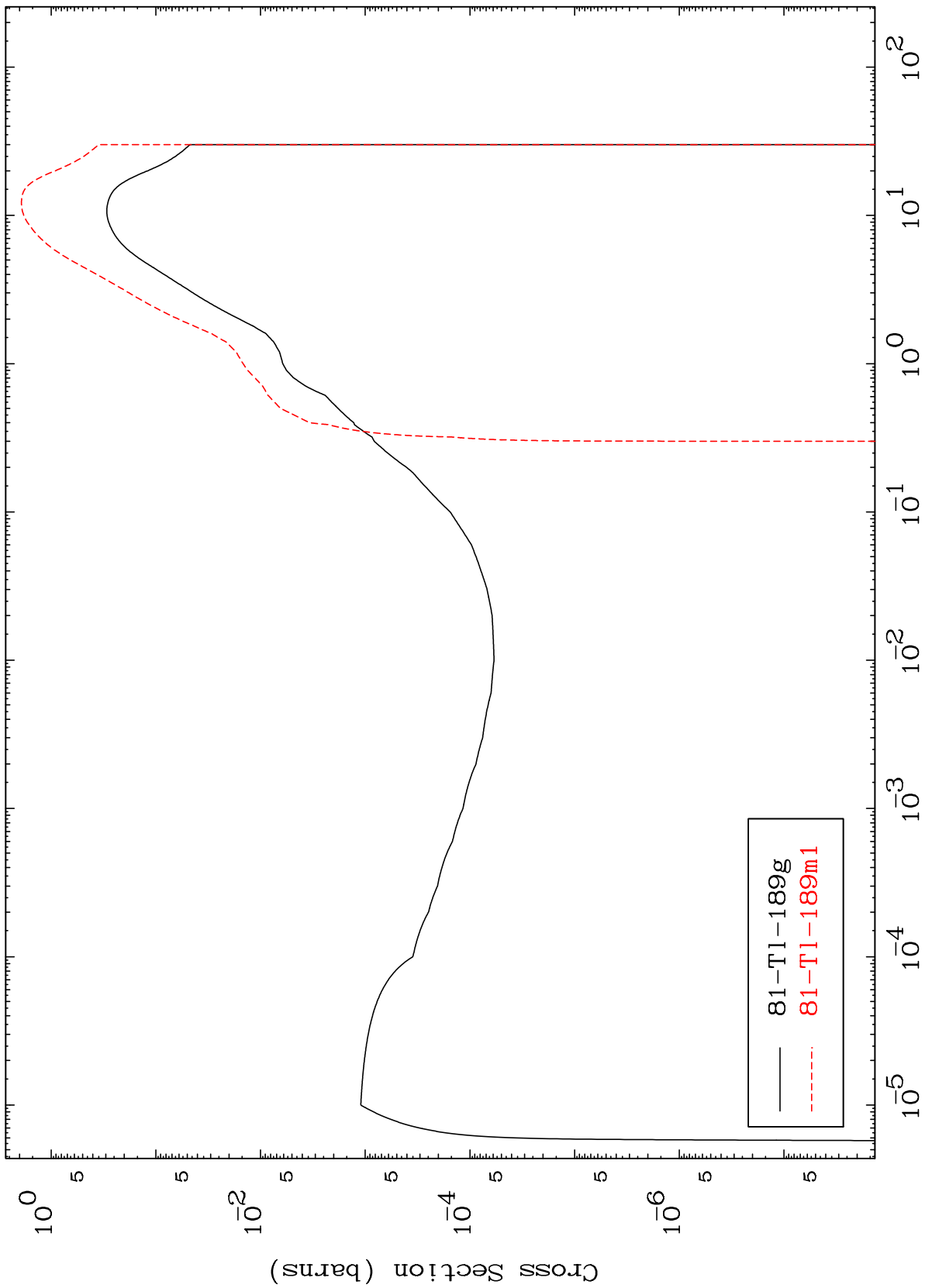


MAT 8084

Inelastic

81-Tl-189

Radionuclide Production Cross Section



81-Tl-189g
81-Tl-189m1

Incident Energy (MeV)

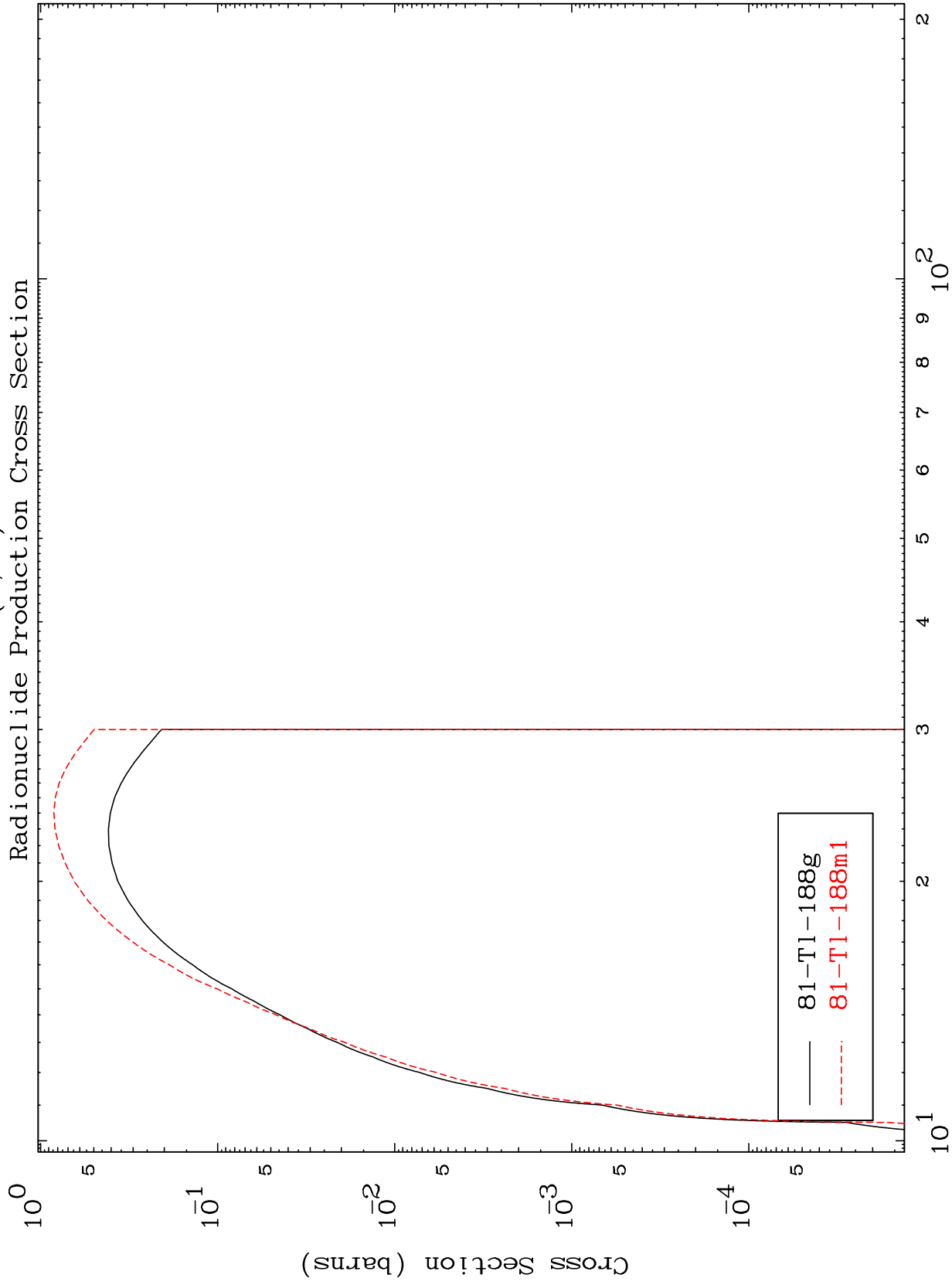
81-Tl-189

17

MAT 8084

(n,2n)

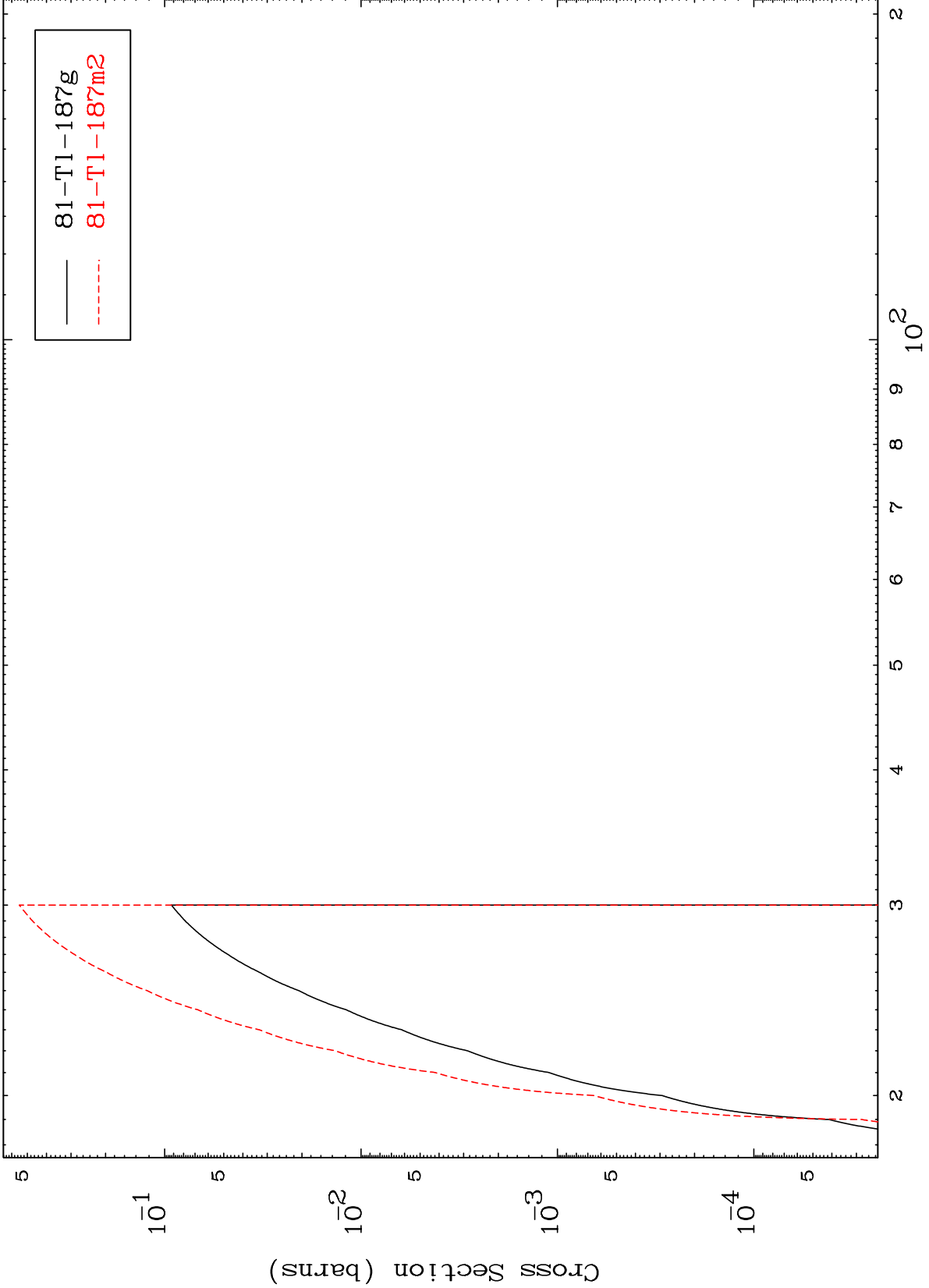
81-Tl-189



81-Tl-189

Incident Energy (MeV)

Radionuclide Production Cross Section



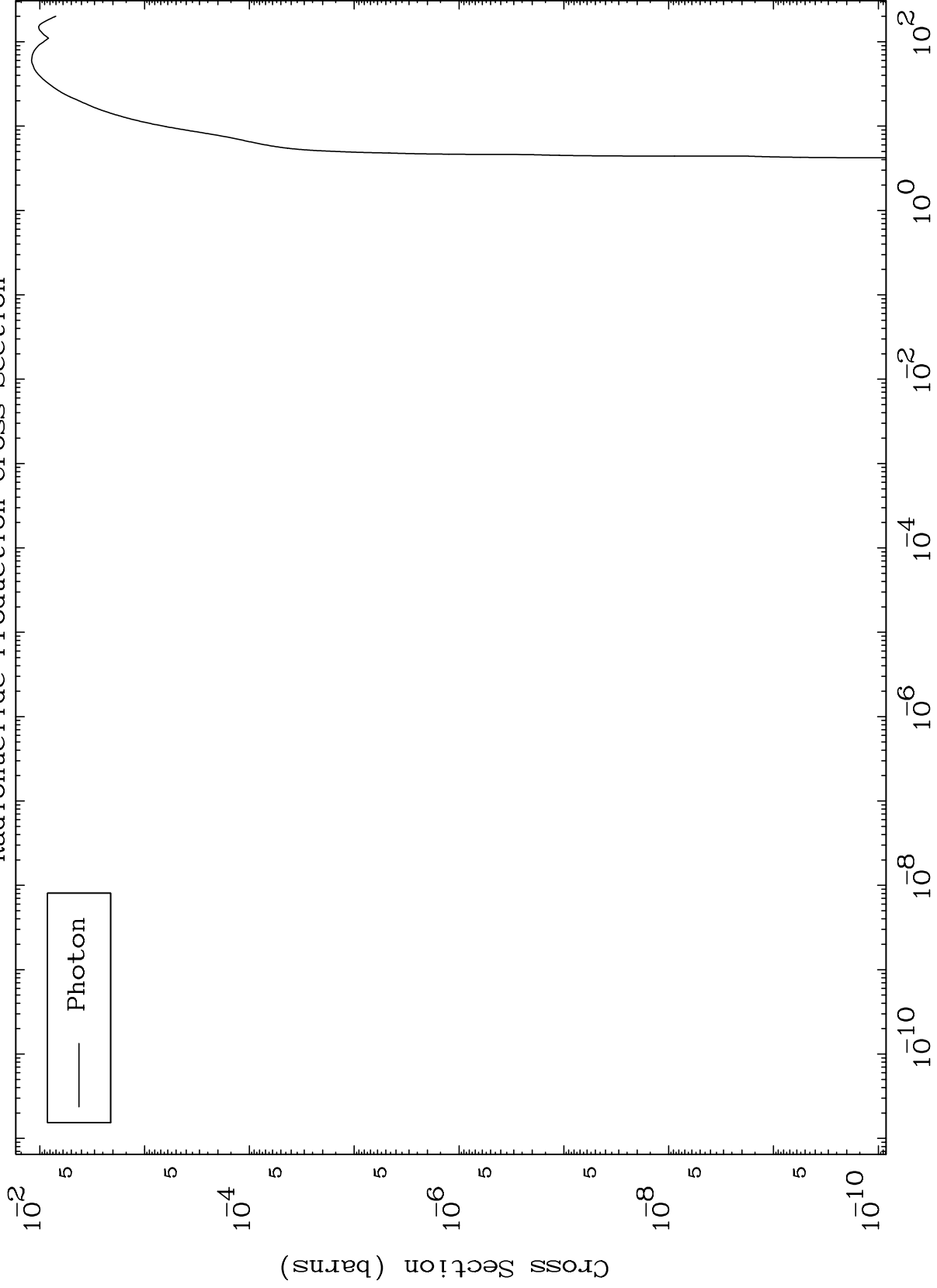
81-Tl-187g
81-Tl-187m2

MAT 8084

Fission

81-Tl-189

Radionuclide Production Cross Section



20

Incident Energy (MeV)

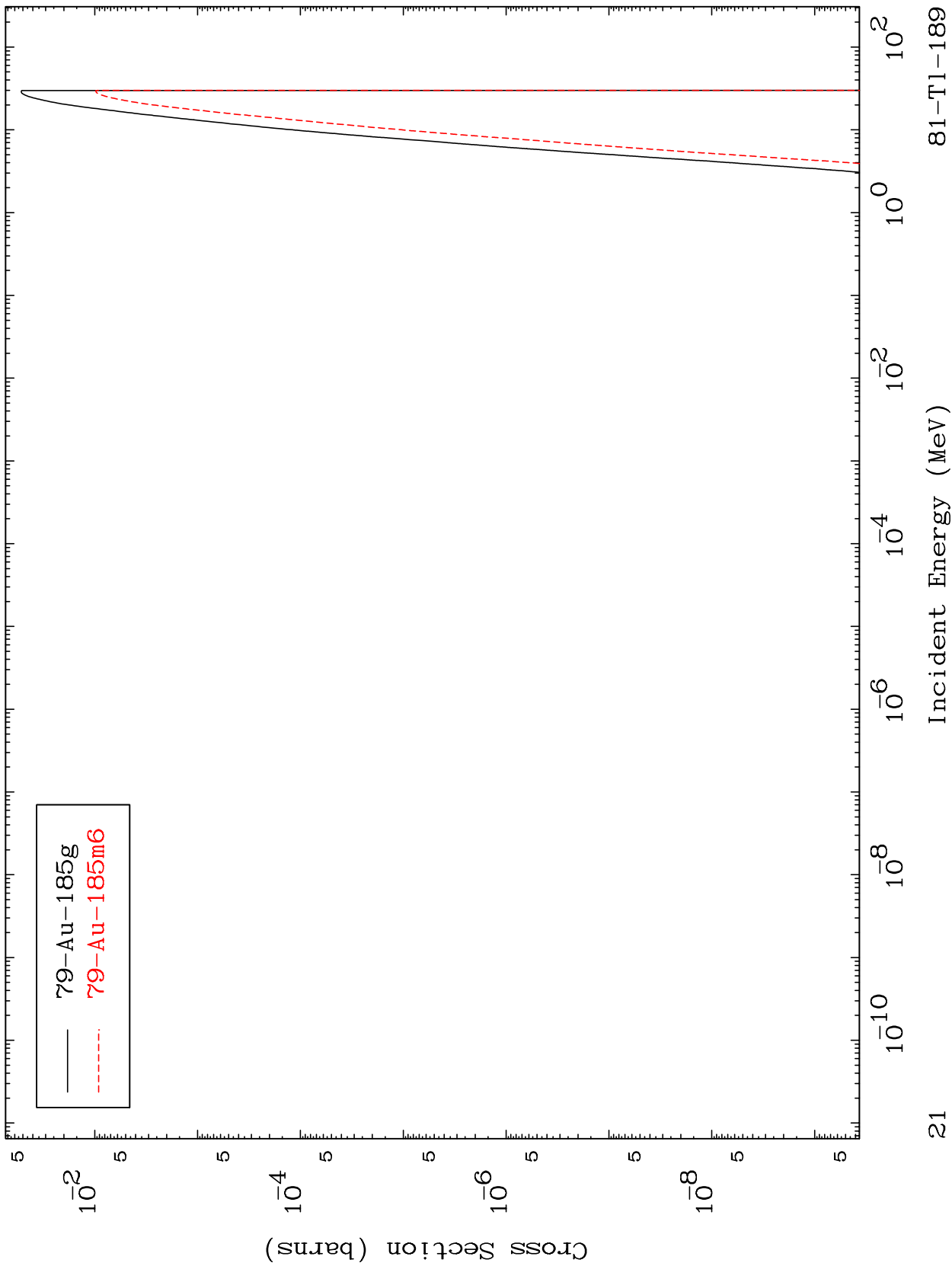
81-Tl-189

MAT 8084

$(n, n') \alpha$

81-Tl-189

Radionuclide Production Cross Section



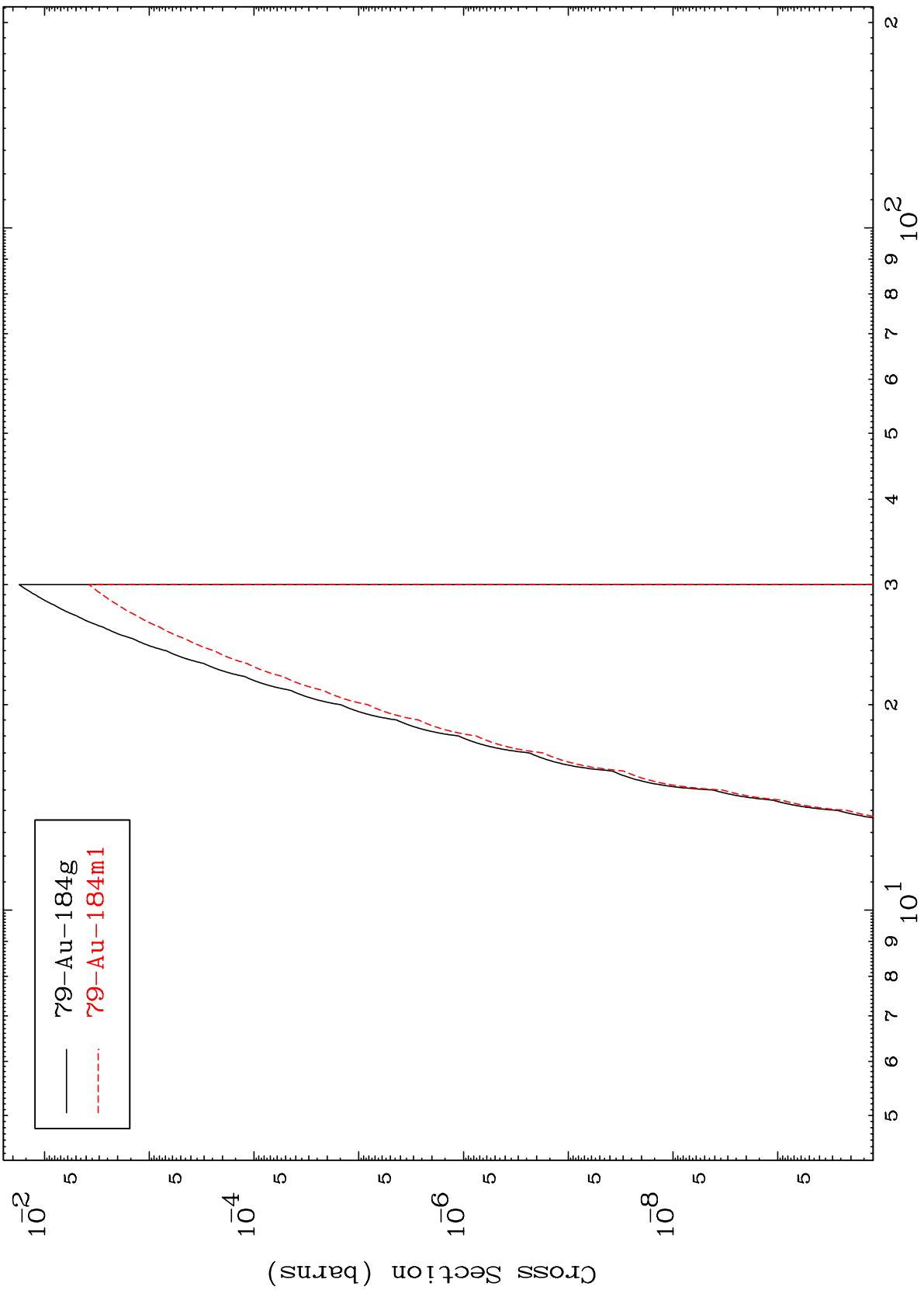
— $^{79}\text{Au-185g}$
- - - $^{79}\text{Au-185m6}$

MAT 8084

(n,2n) α

81-Tl-189

Radionuclide Production Cross Section

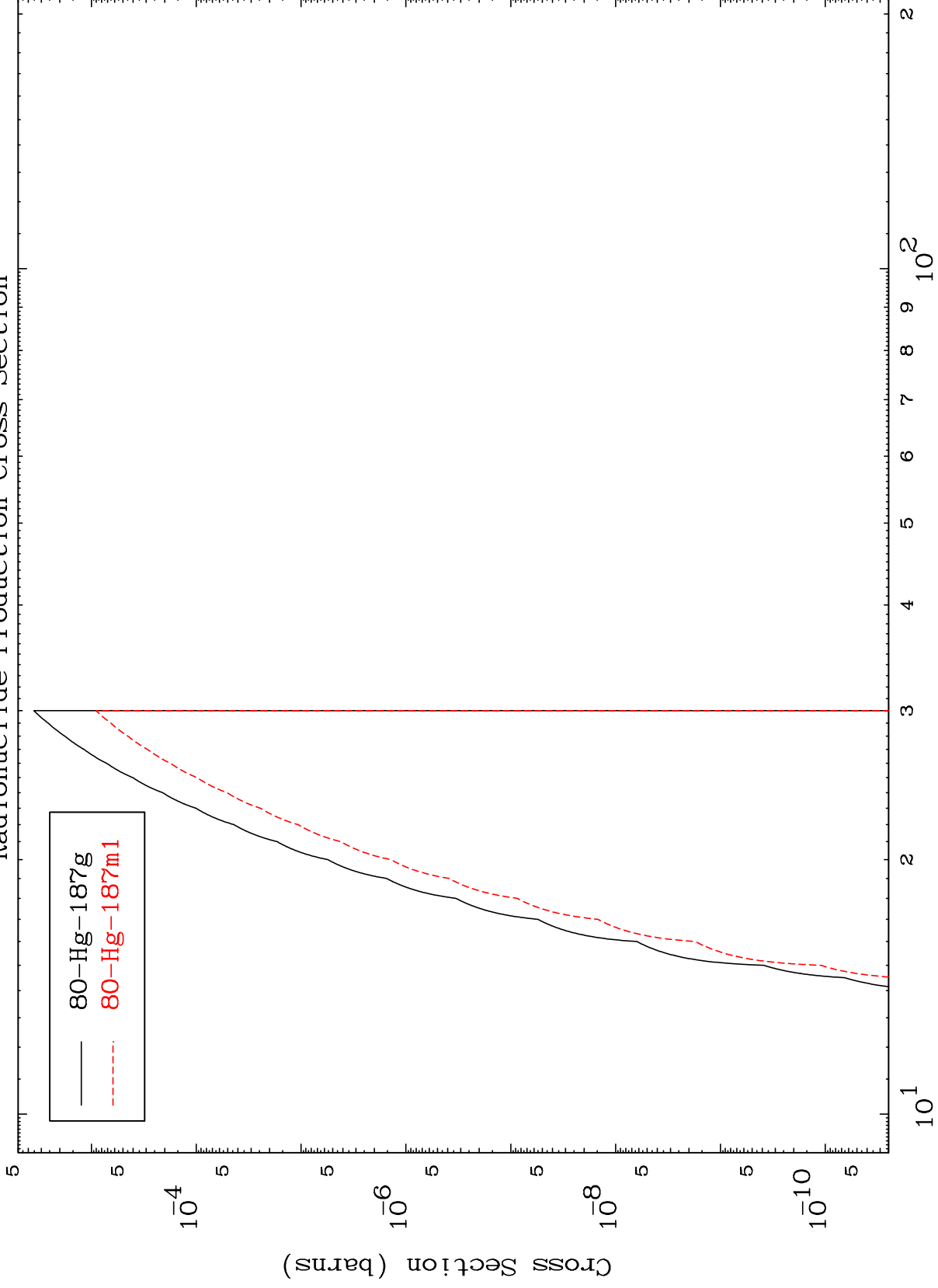


MAT 8084

(n,n') d

81-Tl-189

Radionuclide Production Cross Section



23

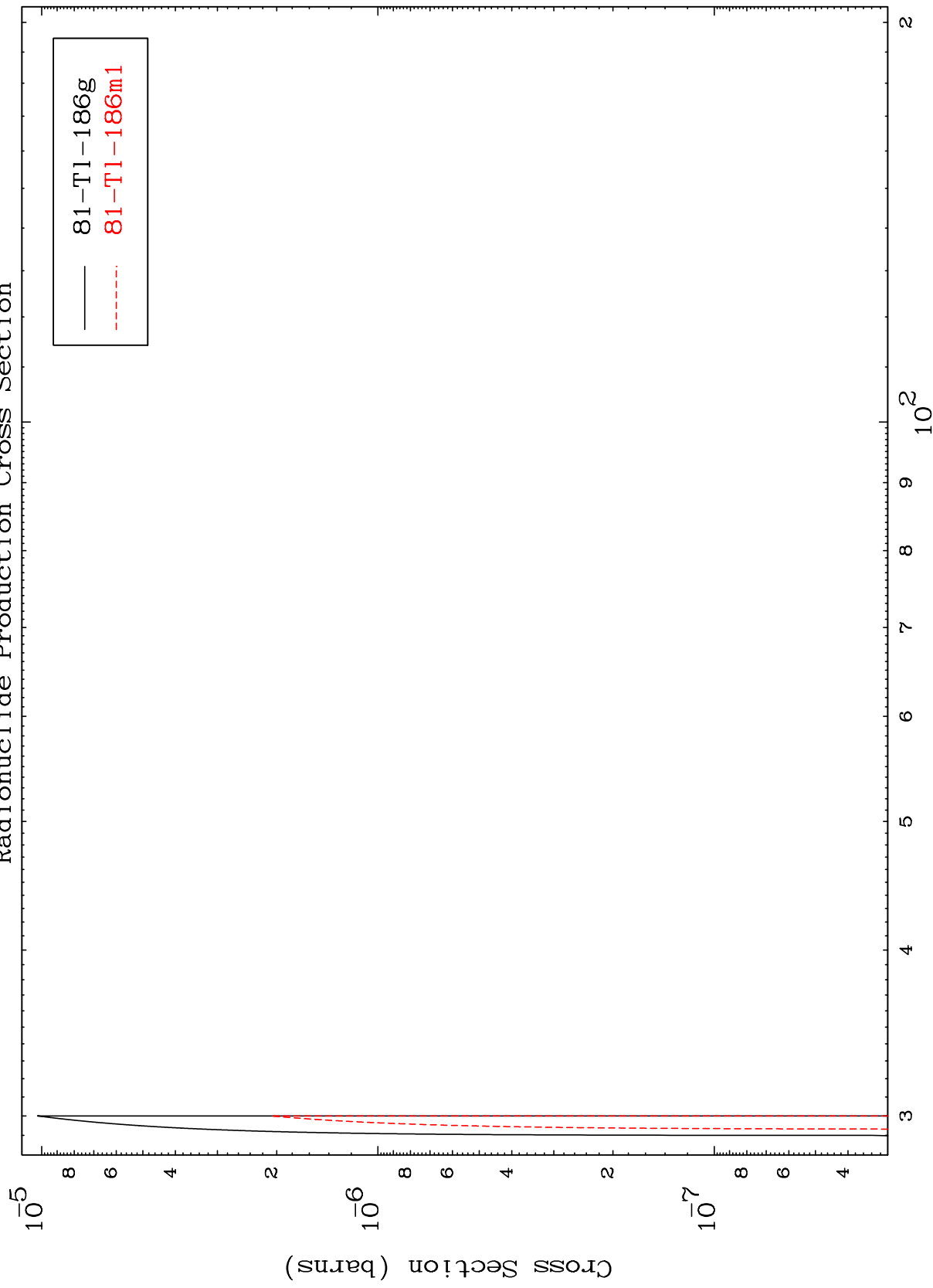
Incident Energy (MeV)

81-Tl-189

MAT 8084

81-Tl-189

(n,4n)
Radionuclide Production Cross Section

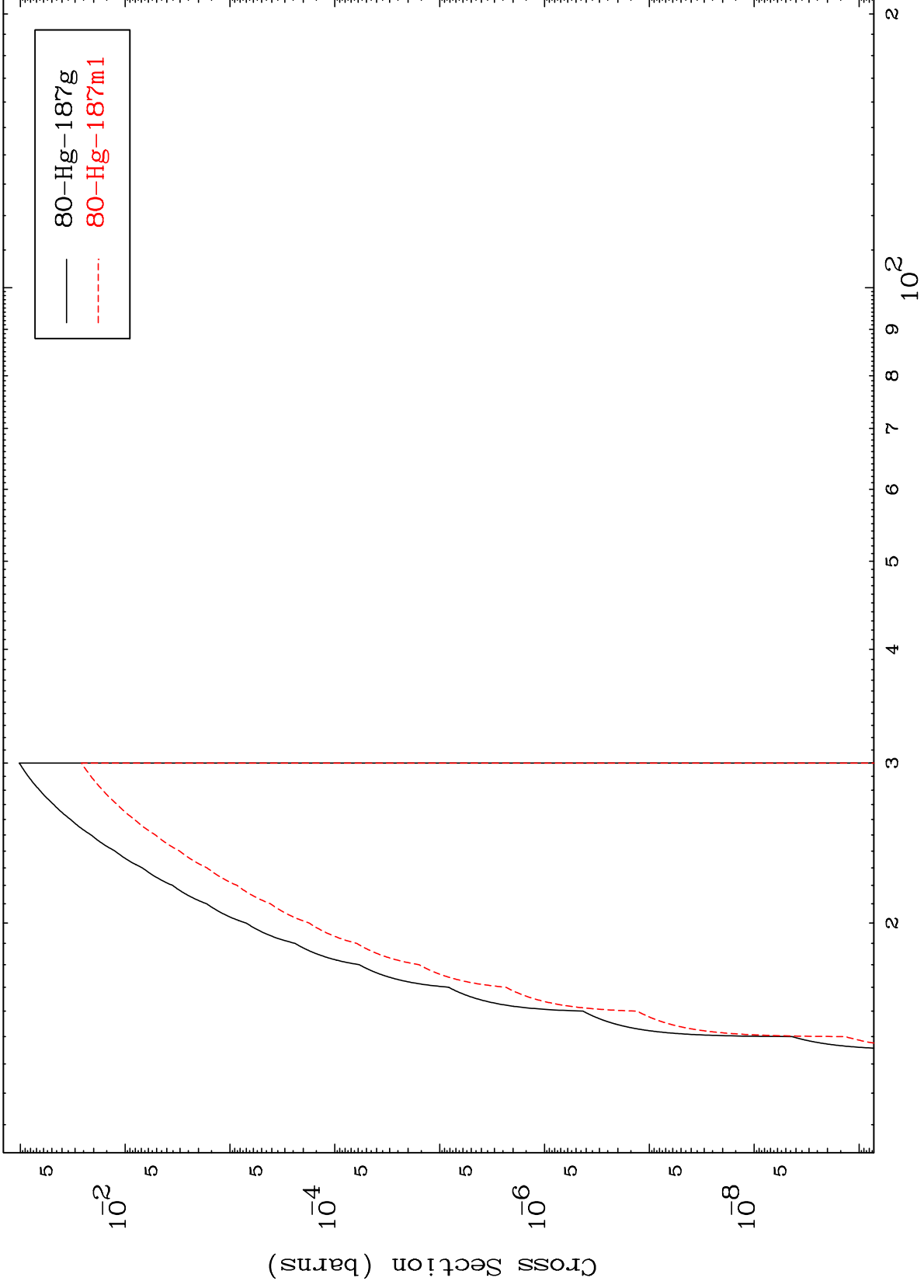


24

81-Tl-189

Incident Energy (MeV)

Radionuclide Production Cross Section

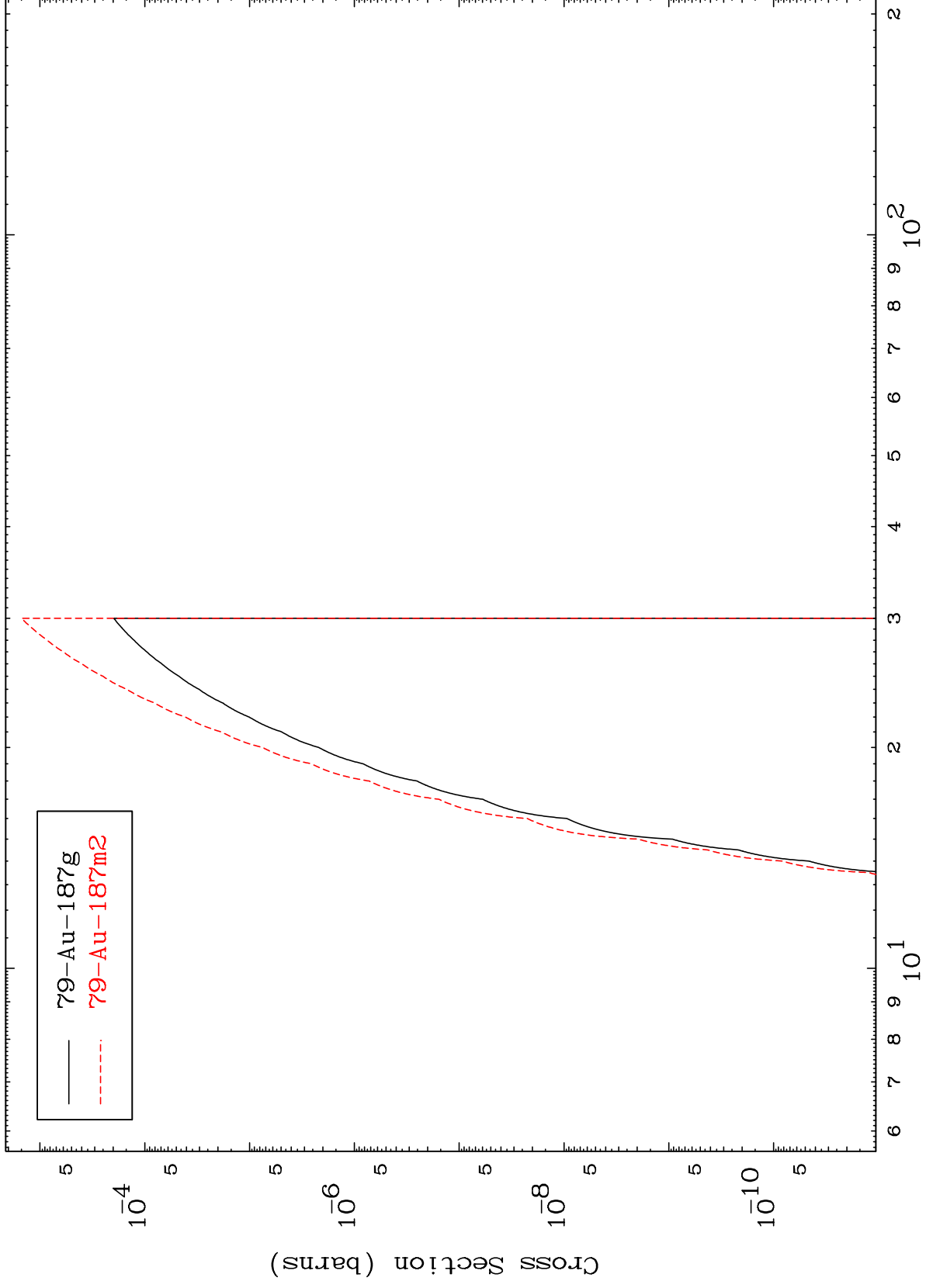


MAT 8084

(n,2n) p

81-Tl-189

Radionuclide Production Cross Section



26

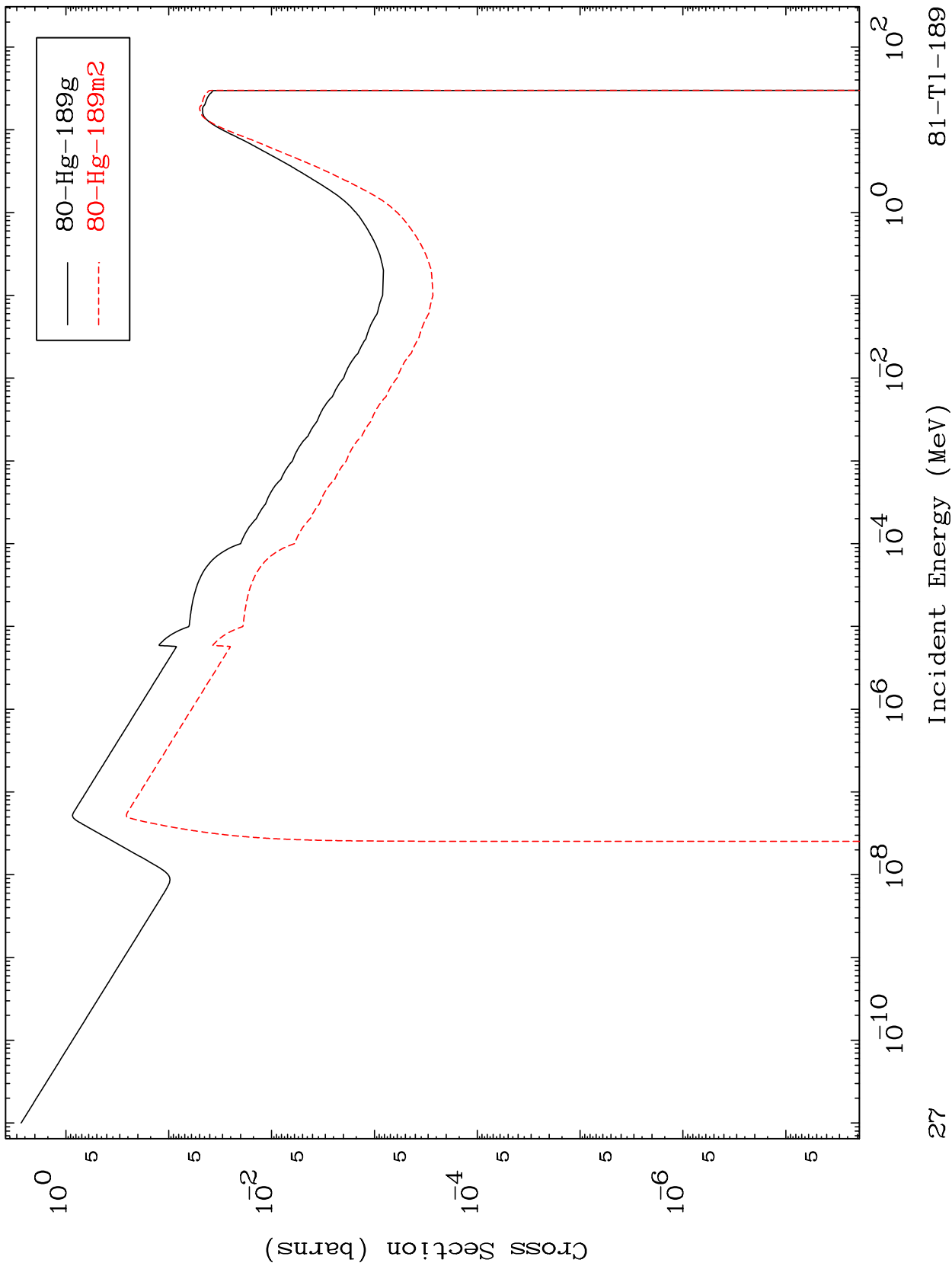
Incident Energy (MeV)

81-Tl-189

MAT 8084

81-Tl-189

(n,p)
Radionuclide Production Cross Section

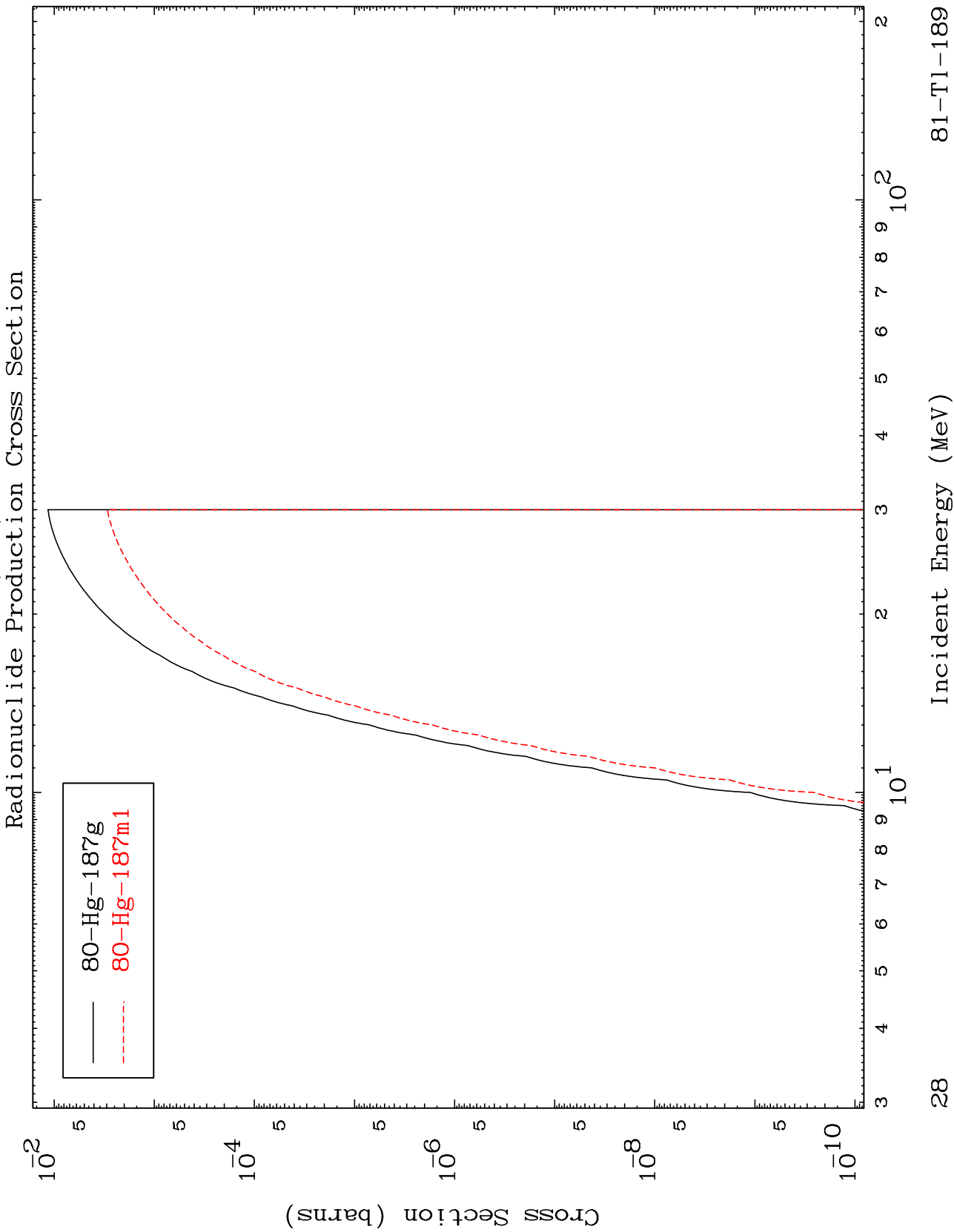


27

81-Tl-189

MAT 8084

81-Tl-189



28

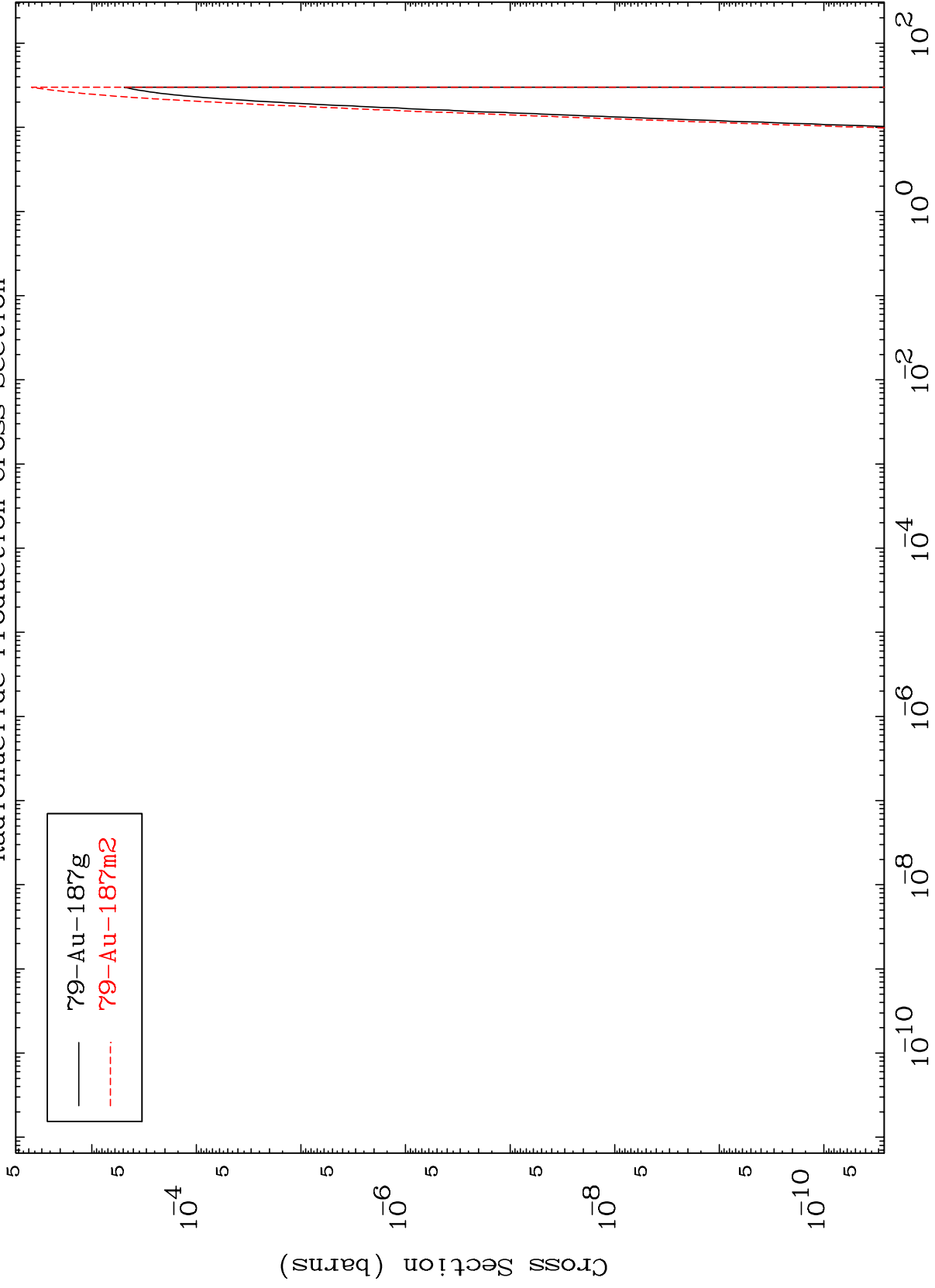
81-Tl-189

MAT 8084

(n,He-3)

81-Tl-189

Radionuclide Production Cross Section



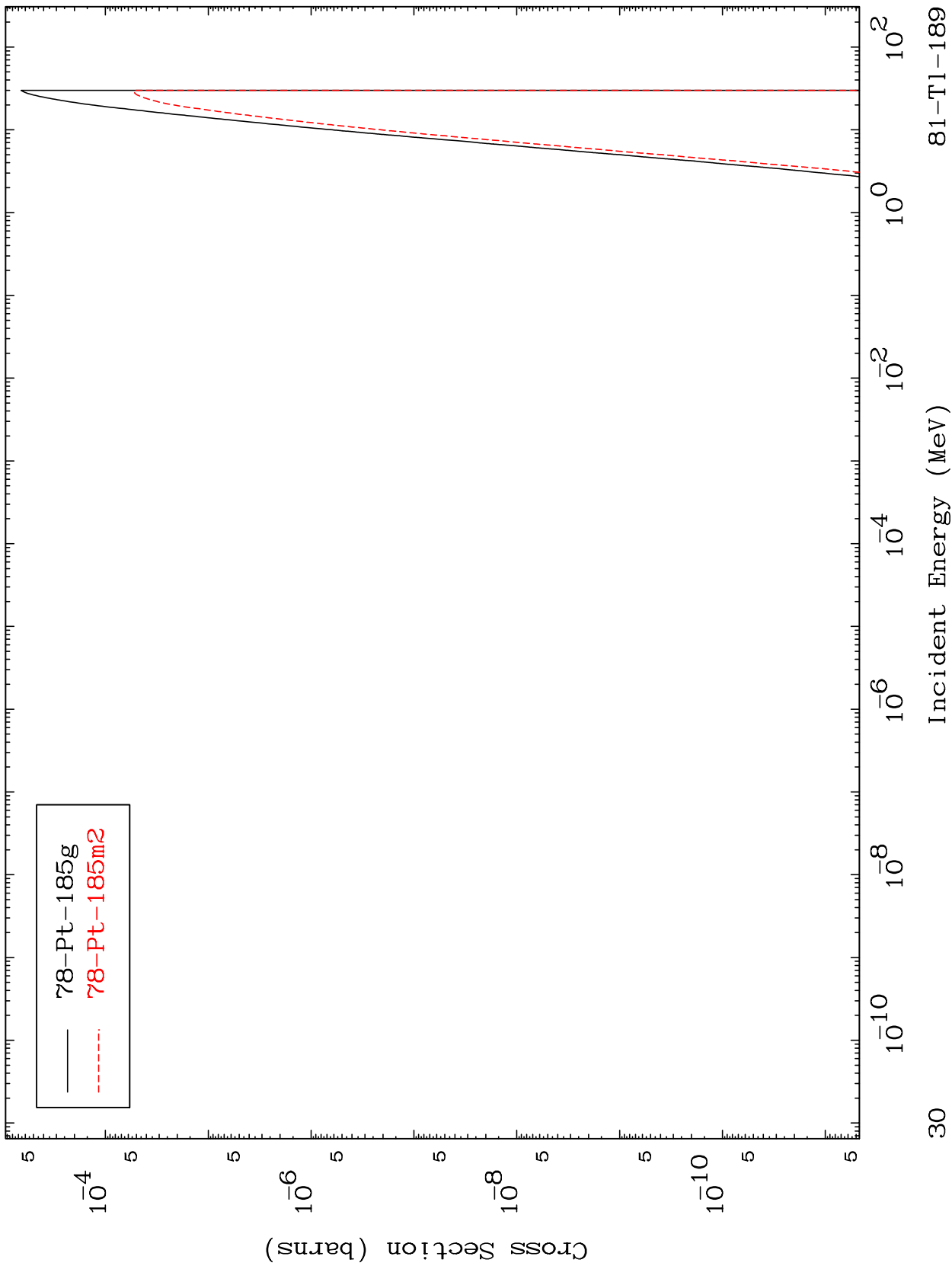
— $^{79}\text{Au-187g}$
- - - $^{79}\text{Au-187m2}$

MAT 8084

(n,p) α

81-Tl-189

Radionuclide Production Cross Section



Radionuclide Production Cross Section

