

Program EVALPLOT
(Version 2018-1)

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

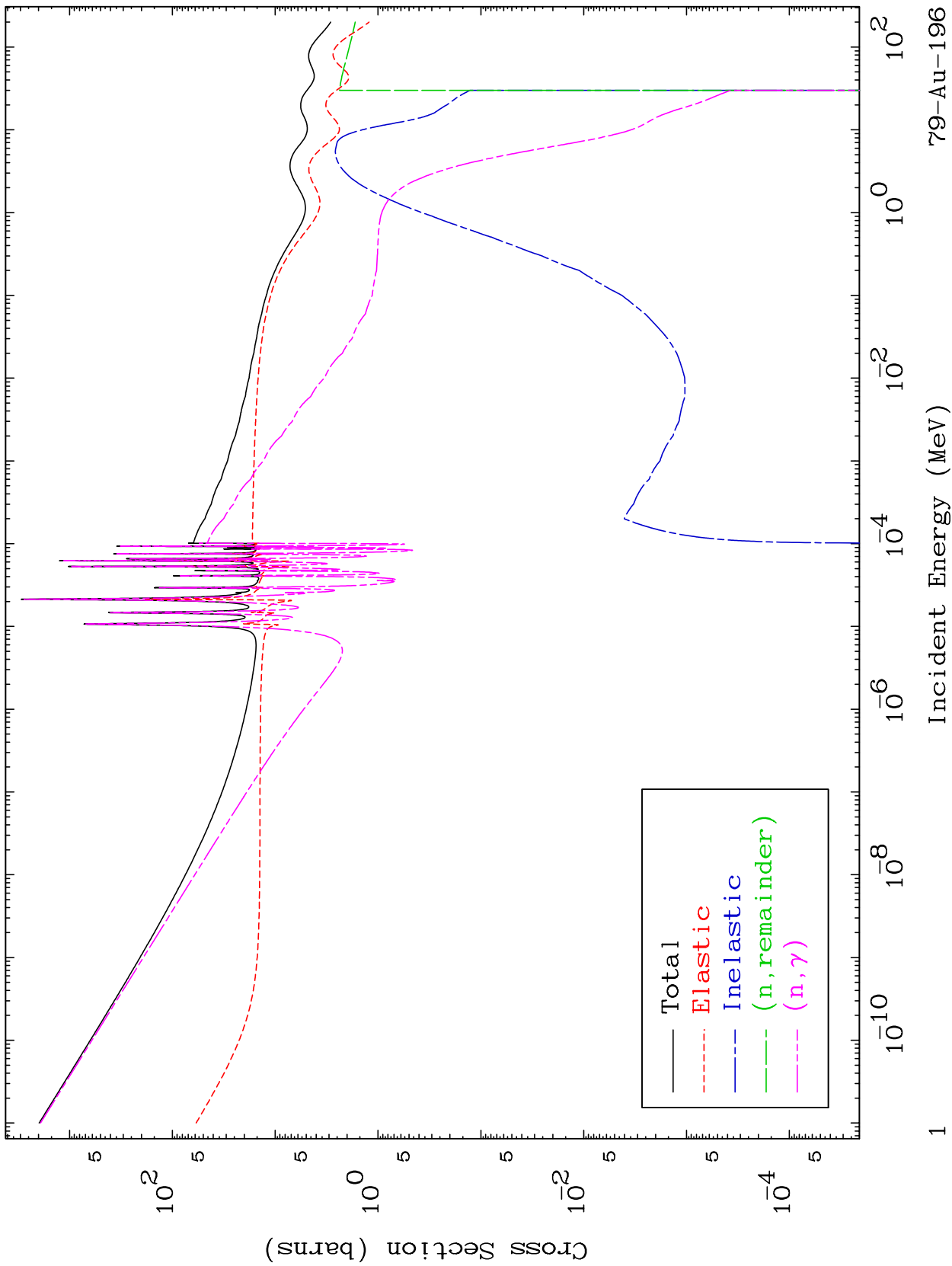
Press Mouse Button to Start

MAT 7924

Major

293 Kelvin Cross Sections

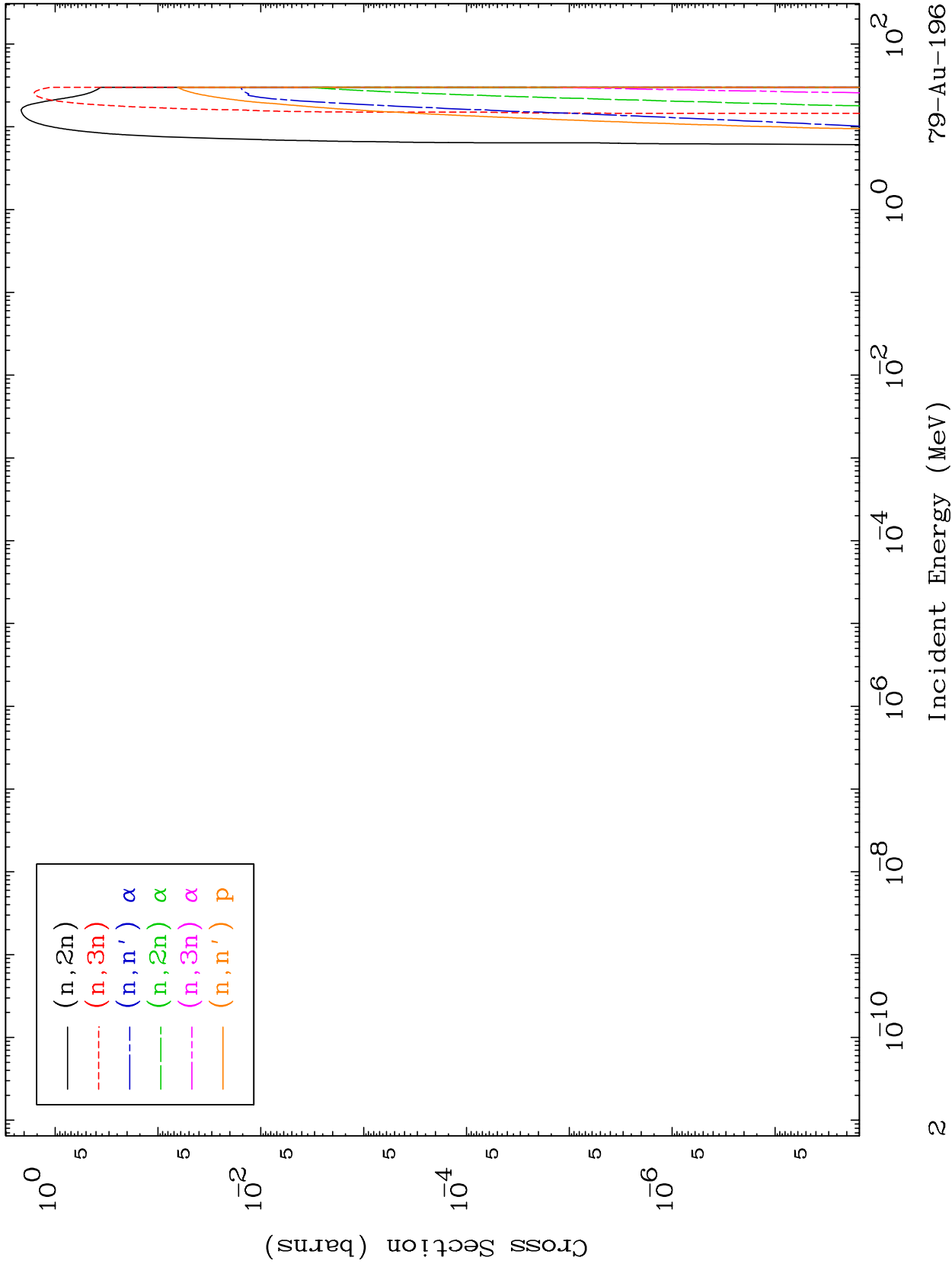
79-Au-196

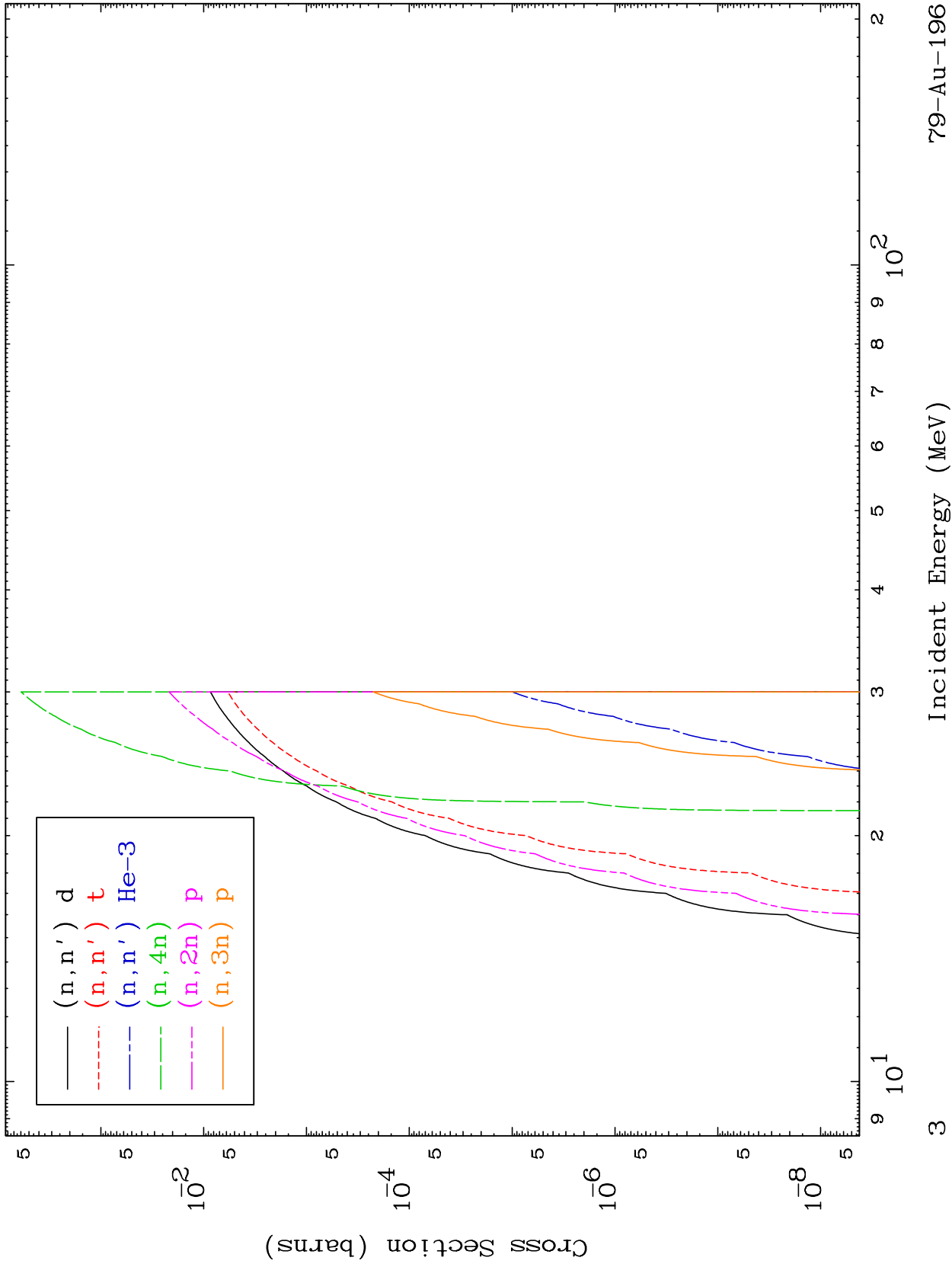


MAT 7924

Neutron Production
293 Kelvin Cross Sections

79-Au-196

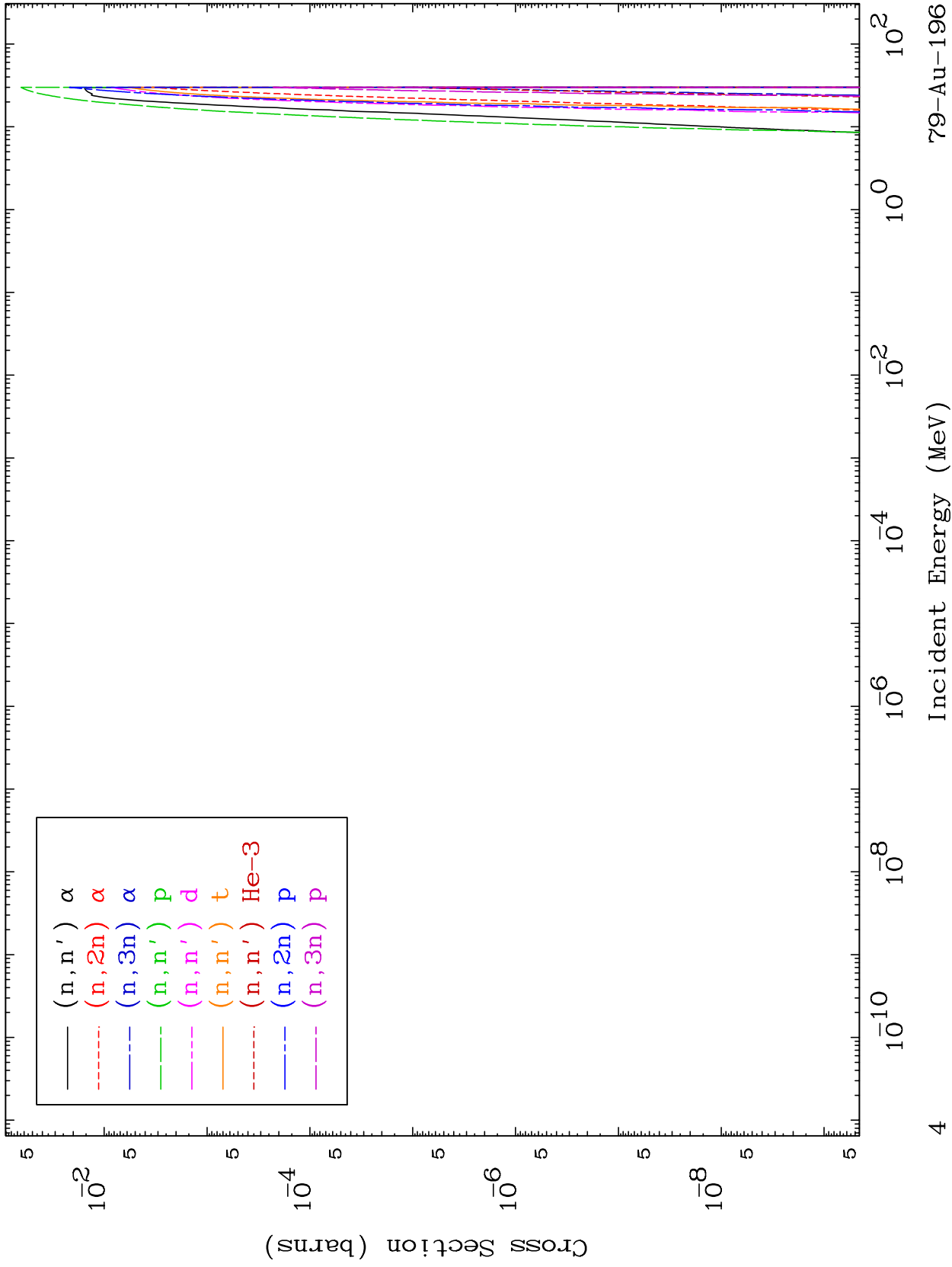


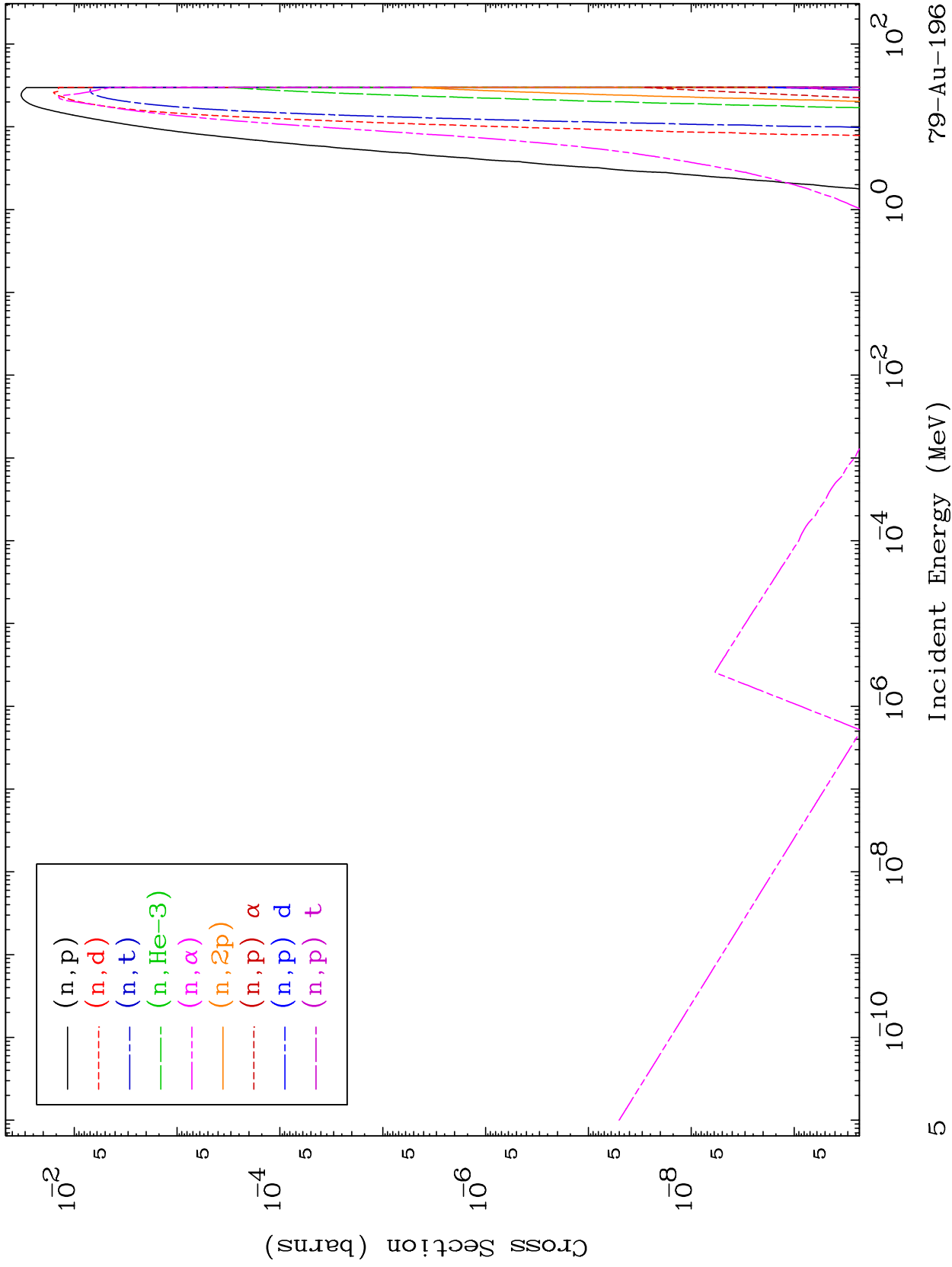


MAT 7924

Charged Particle
293 Kelvin Cross Sections

79-Au-196

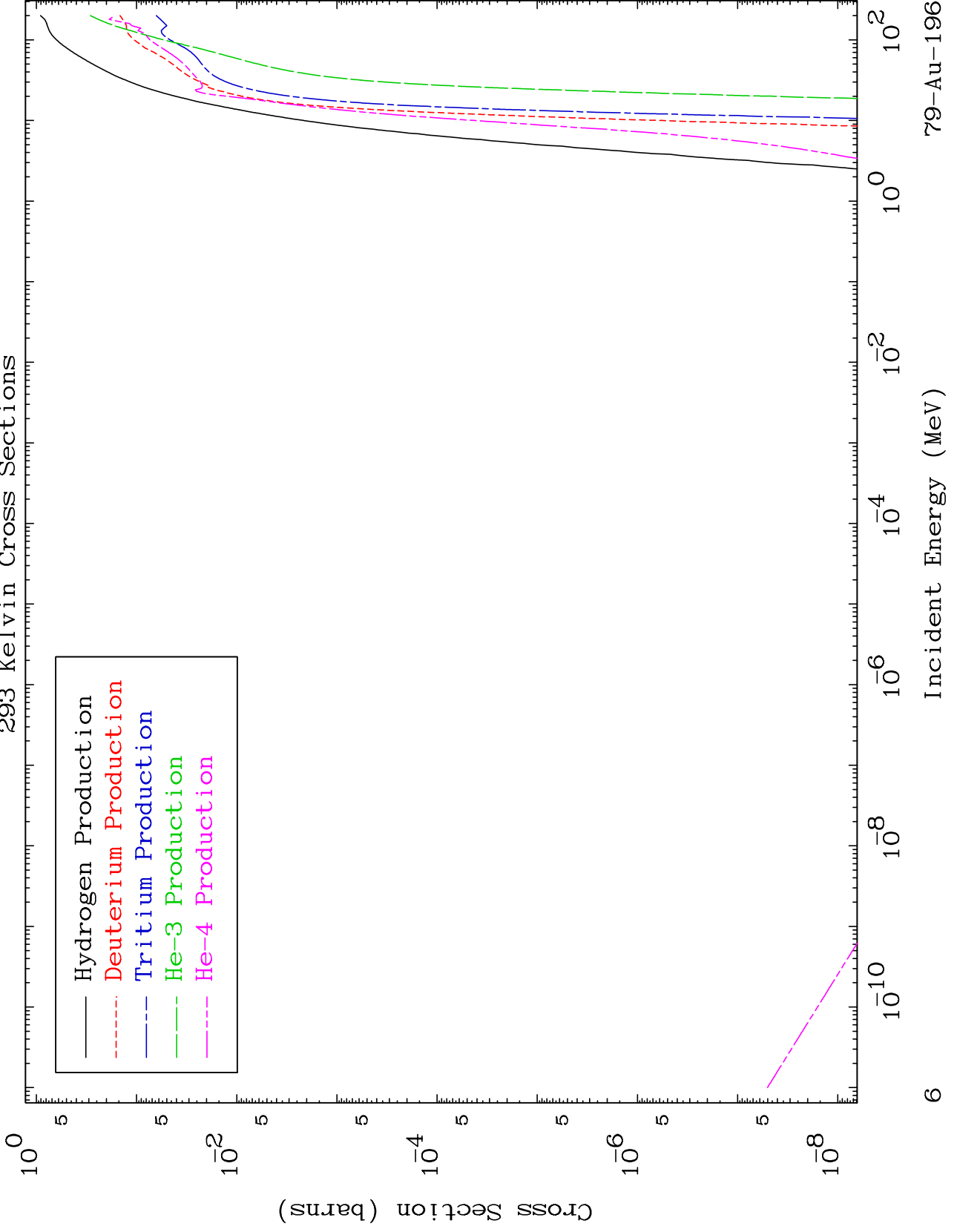




MAT 7924

Particle Production
293 Kelvin Cross Sections

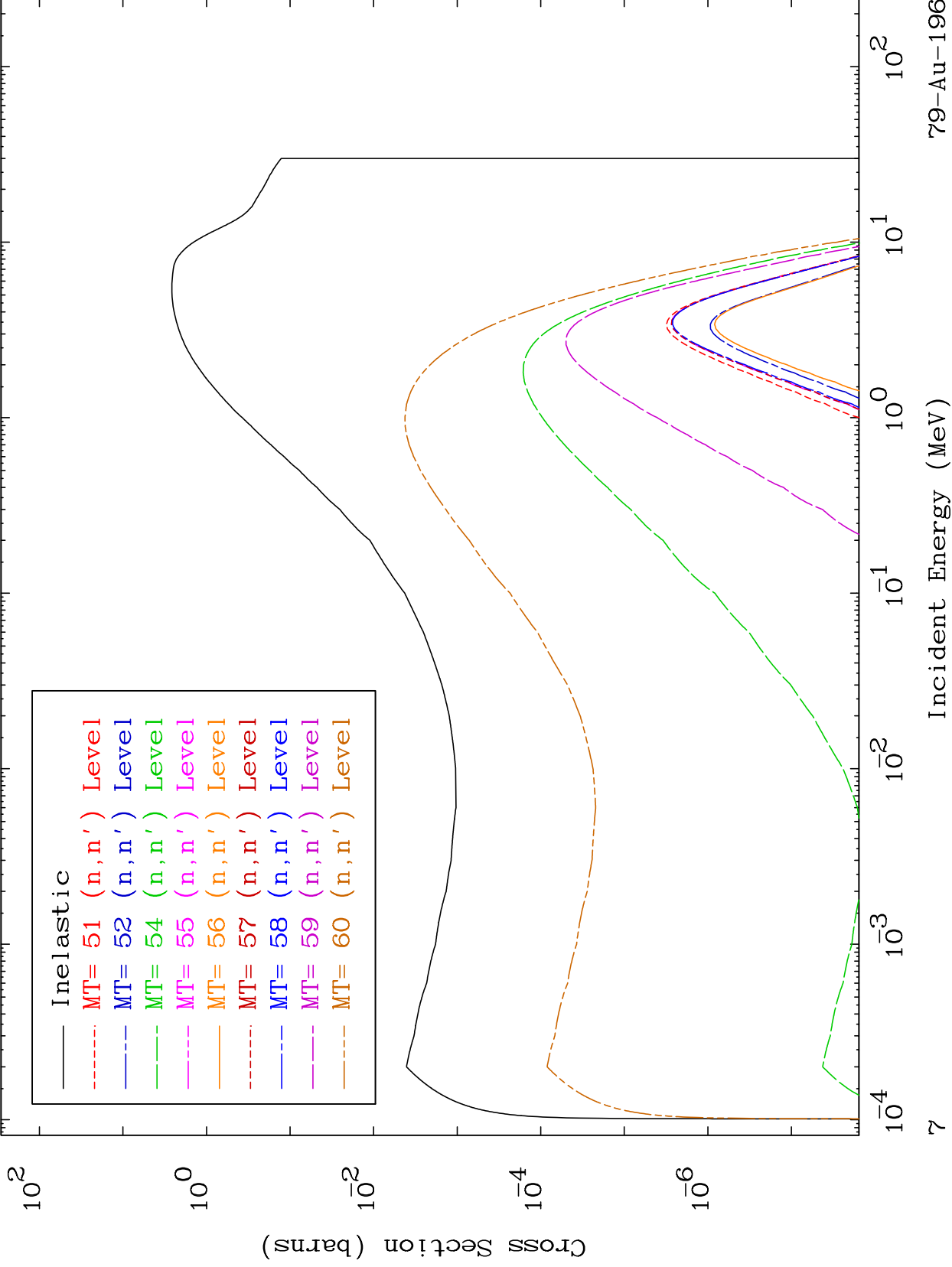
79-Au-196



MAT 7924

(n,n') Level
293 Kelvin Cross Sections

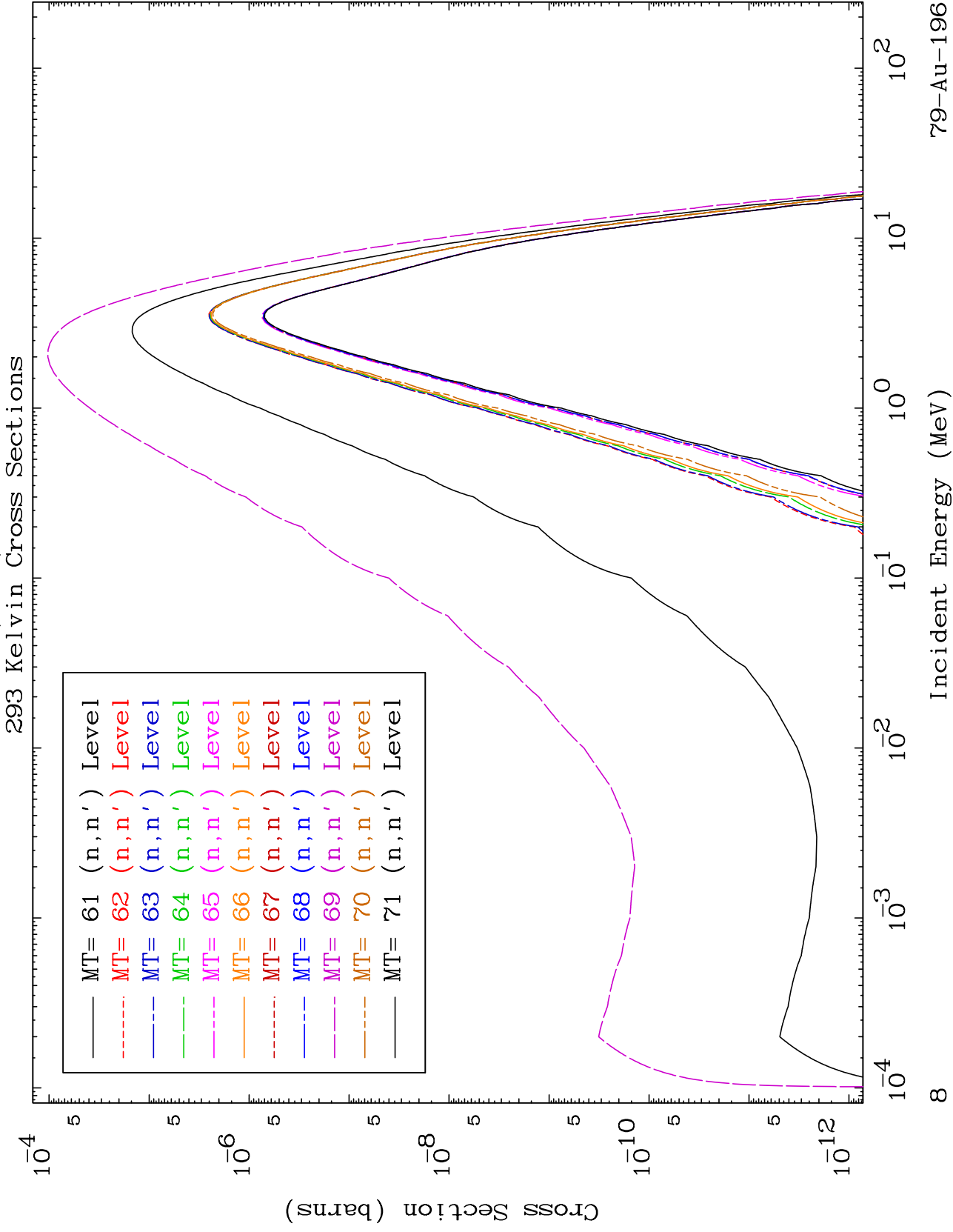
79-Au-196



MAT 7924

(n,n') Level

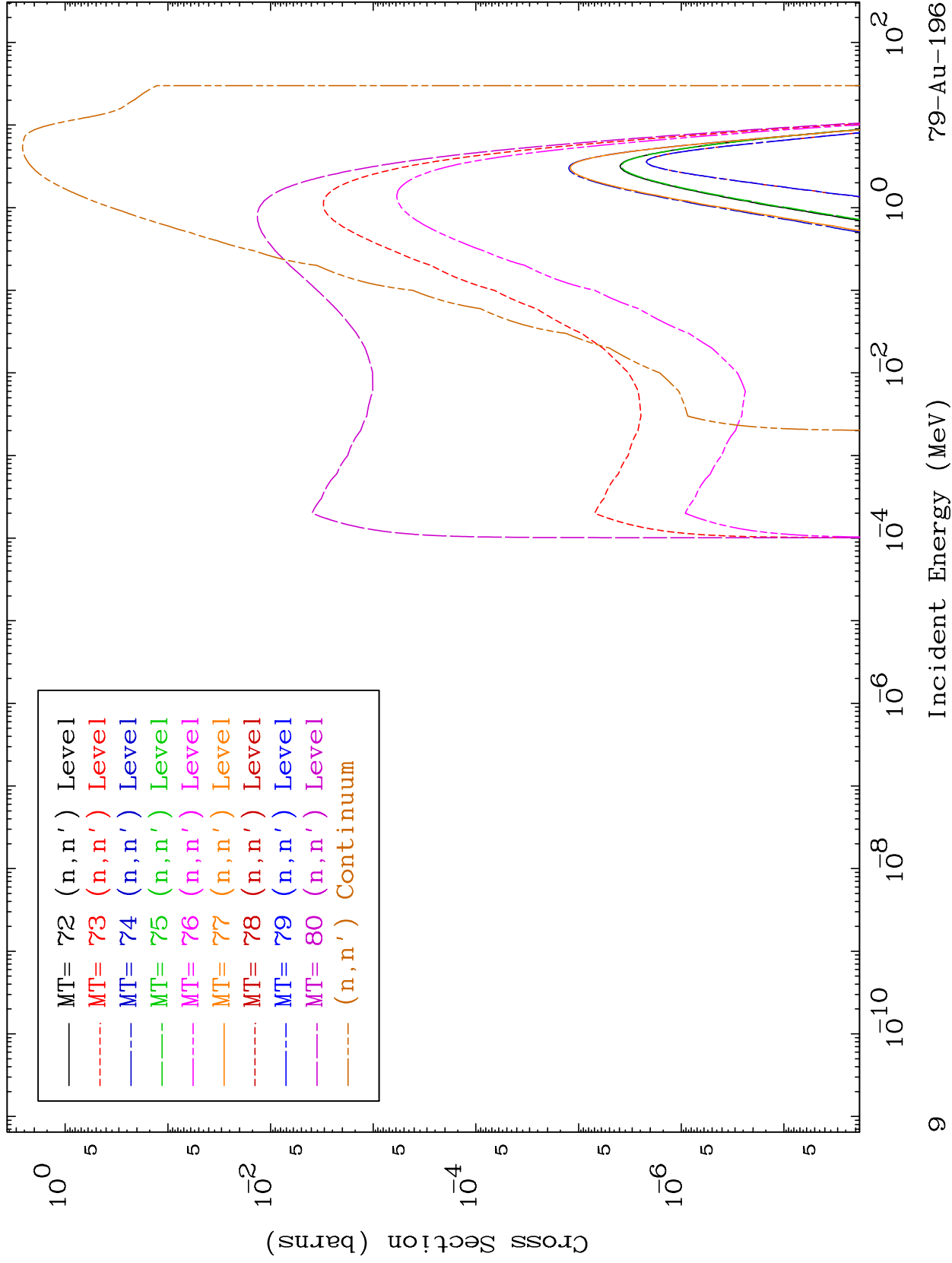
79-Au-196



MAT 7924

293 (n,n') Level
Kelvin Cross Sections

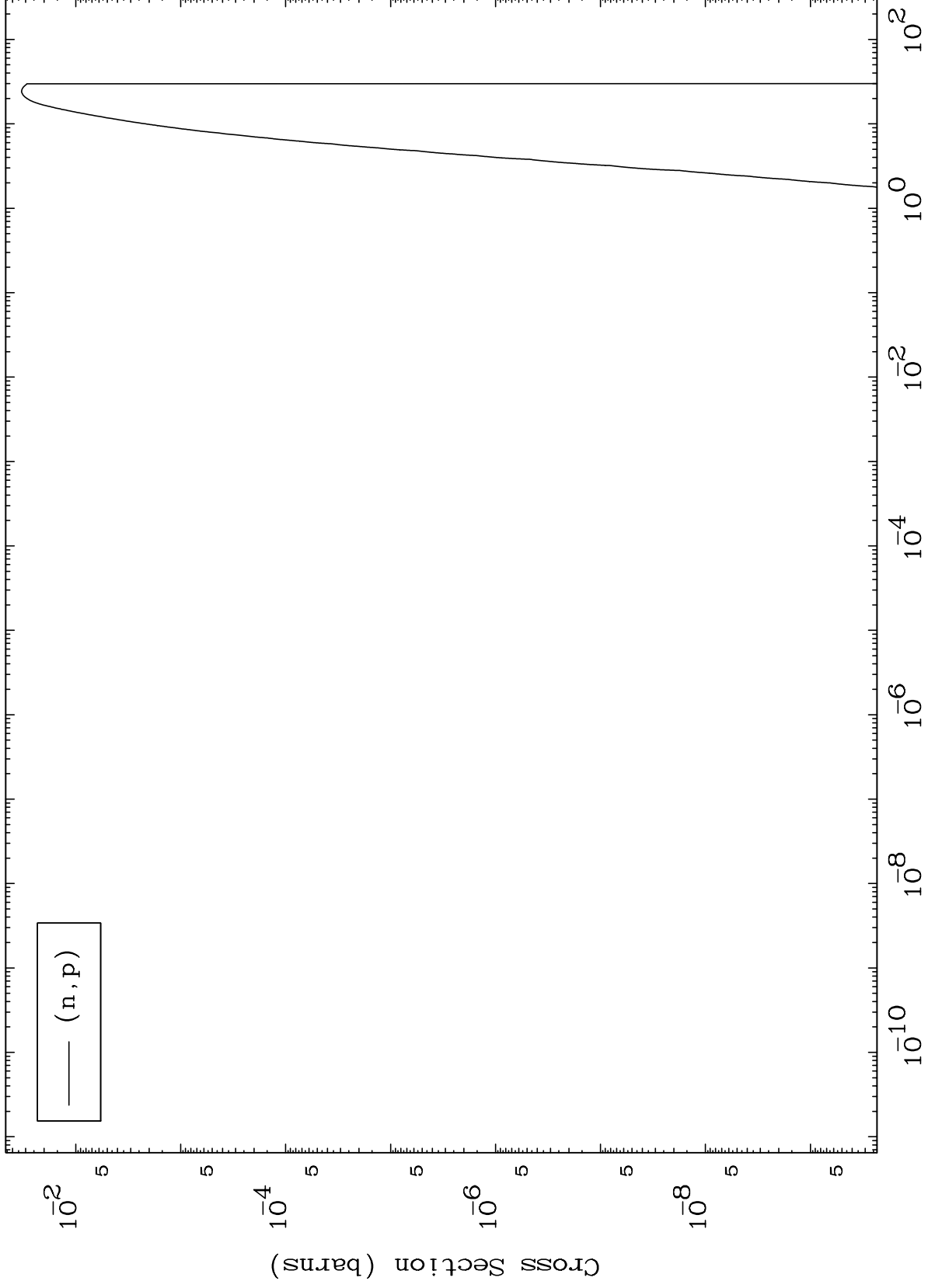
79-Au-196



MAT 7924

(n,p) Levels
293 Kelvin Cross Sections

79-Au-196



10

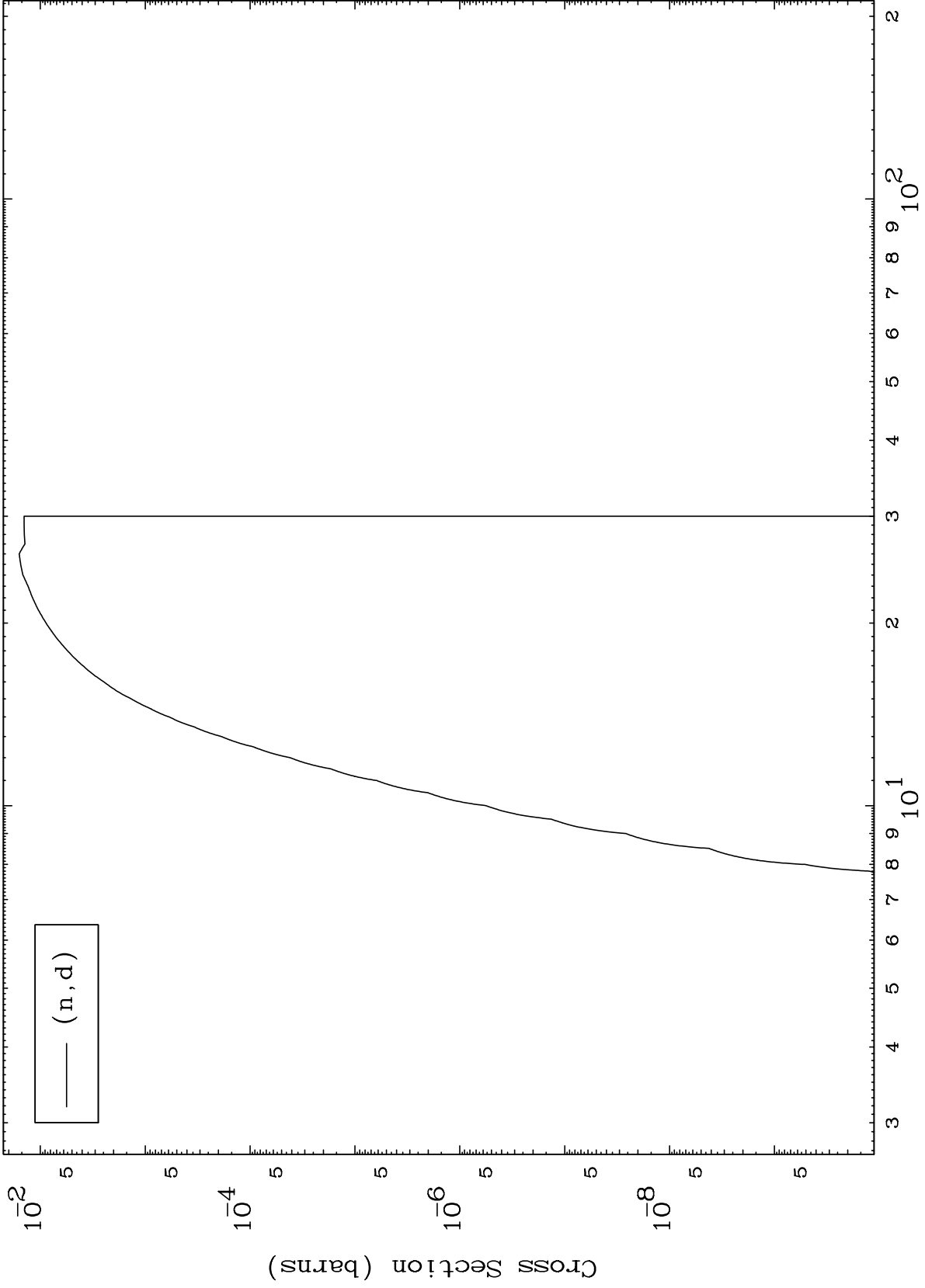
Incident Energy (MeV)

79-Au-196

MAT 7924

(n,d) Levels
293 Kelvin Cross Sections

79-Au-196

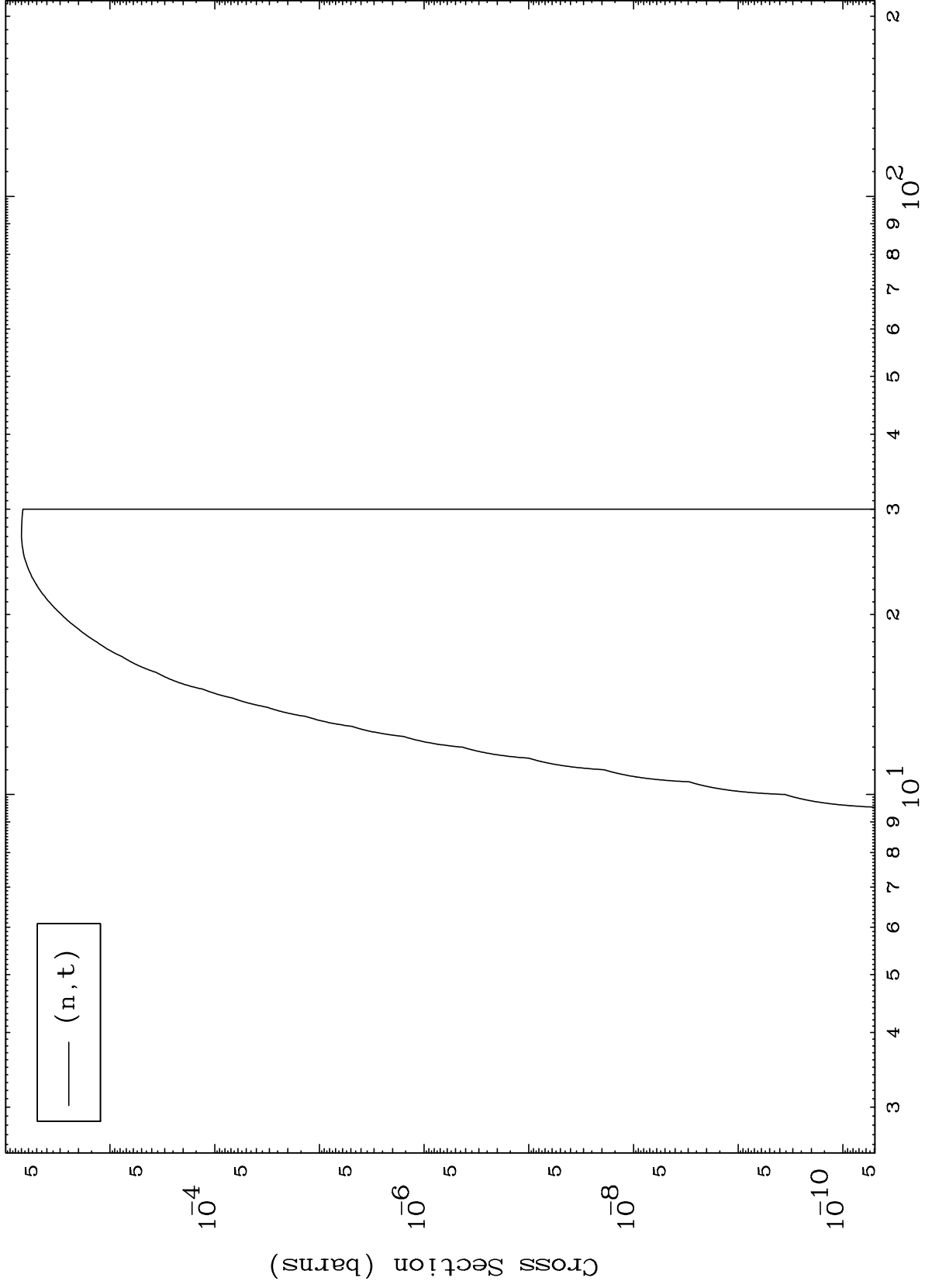


(n,d)

MAT 7924

(n,t) Levels
293 Kelvin Cross Sections

79-Au-196



(n,t)

Incident Energy (MeV)

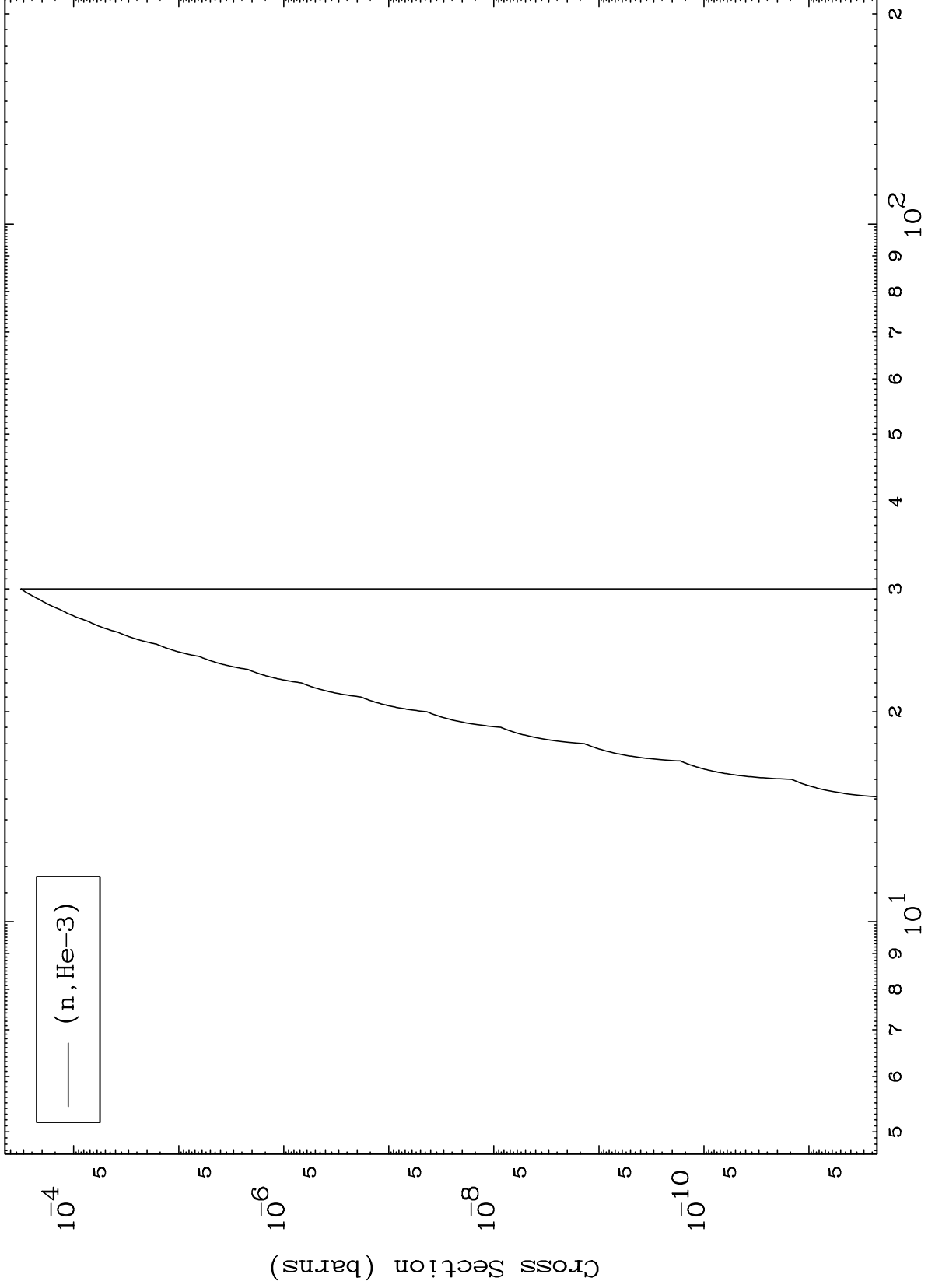
79-Au-196

12

MAT 7924

(n,He3) Levels
293 Kelvin Cross Sections

79-Au-196



13

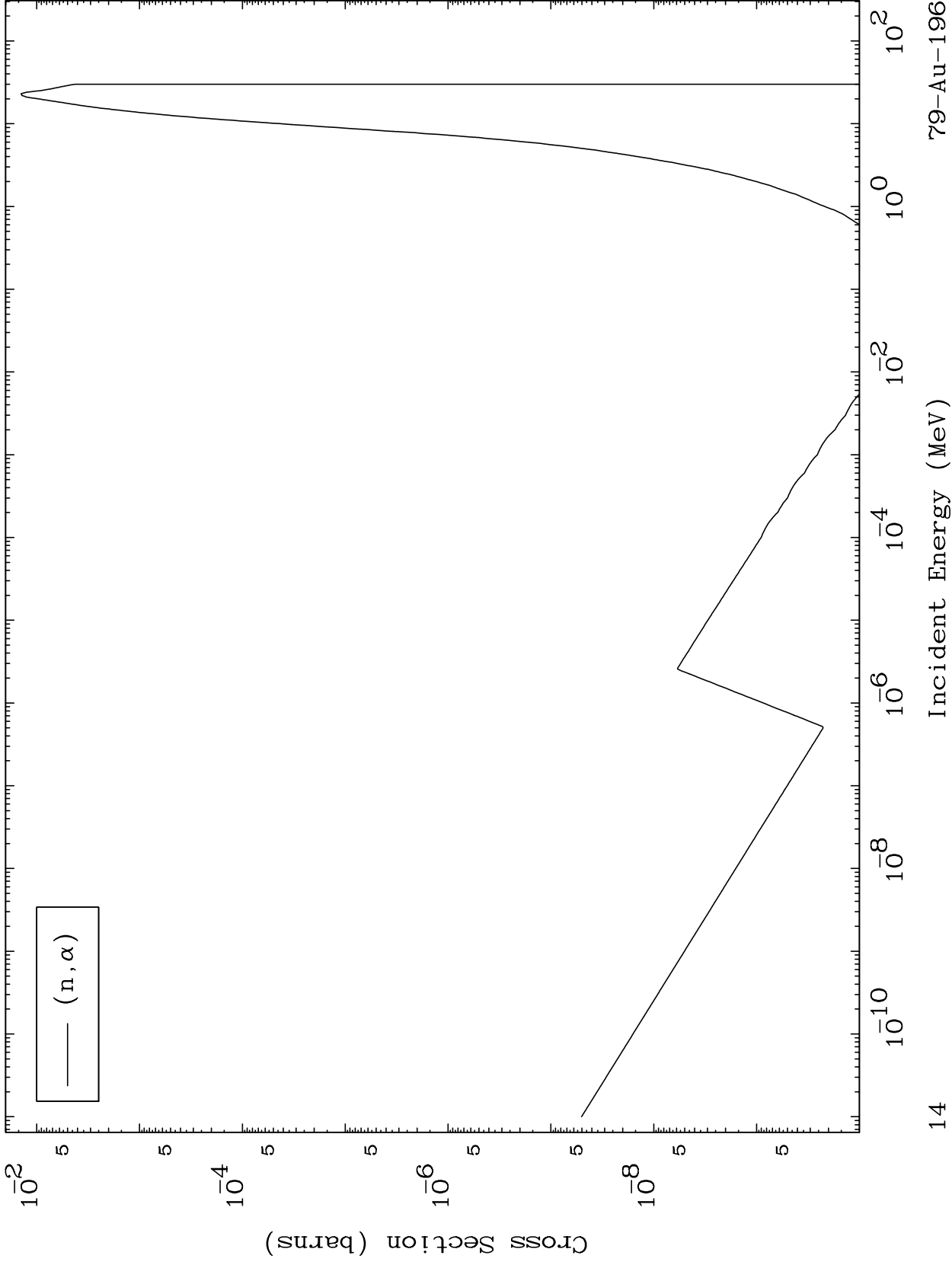
Incident Energy (MeV)

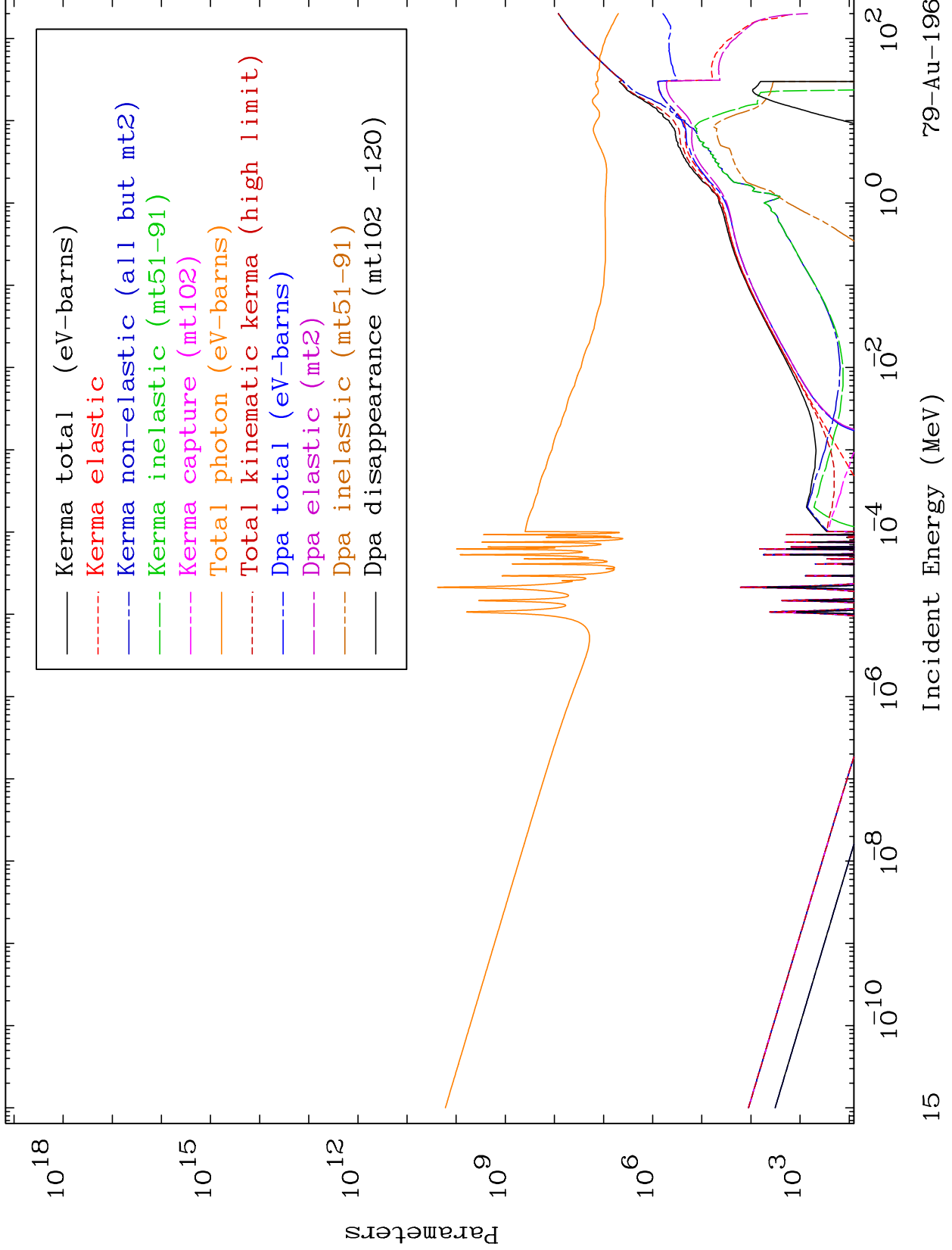
79-Au-196

MAT 7924

(n, α) Levels
293 Kelvin Cross Sections

79-Au-196

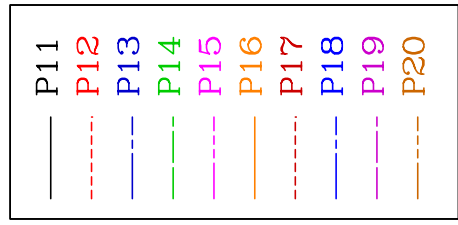




MAT 7924

Elastic Legendre Coefficients

79-Au-196



$\times 10^{-4}$
2.0
1.5

Legendre (CM)

1.0
0.5
0.0

5

10

15

20

25

30

17

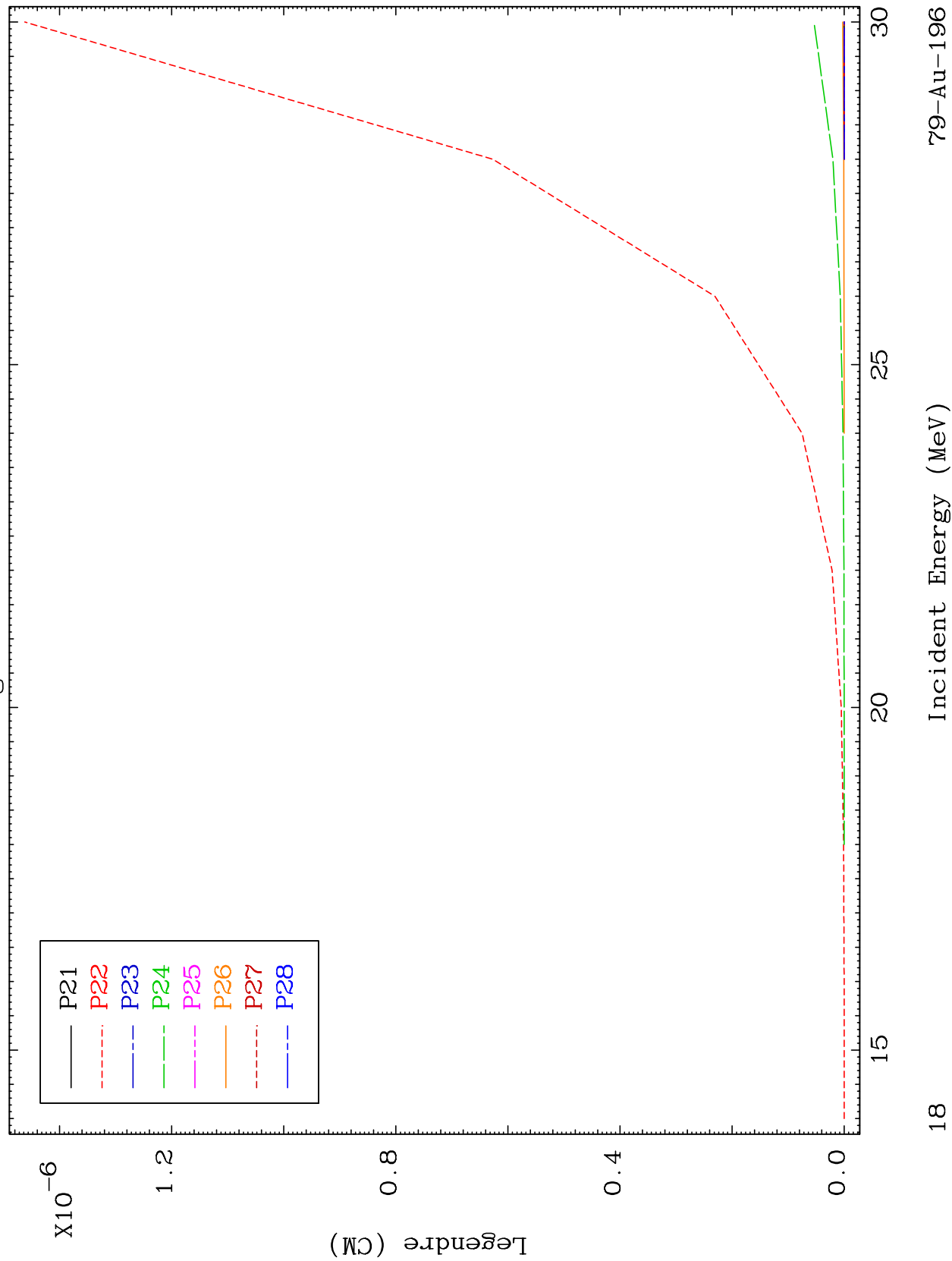
Incident Energy (MeV)

79-Au-196

MAT 7924

Elastic Legendre Coefficients

79-Au-196



18

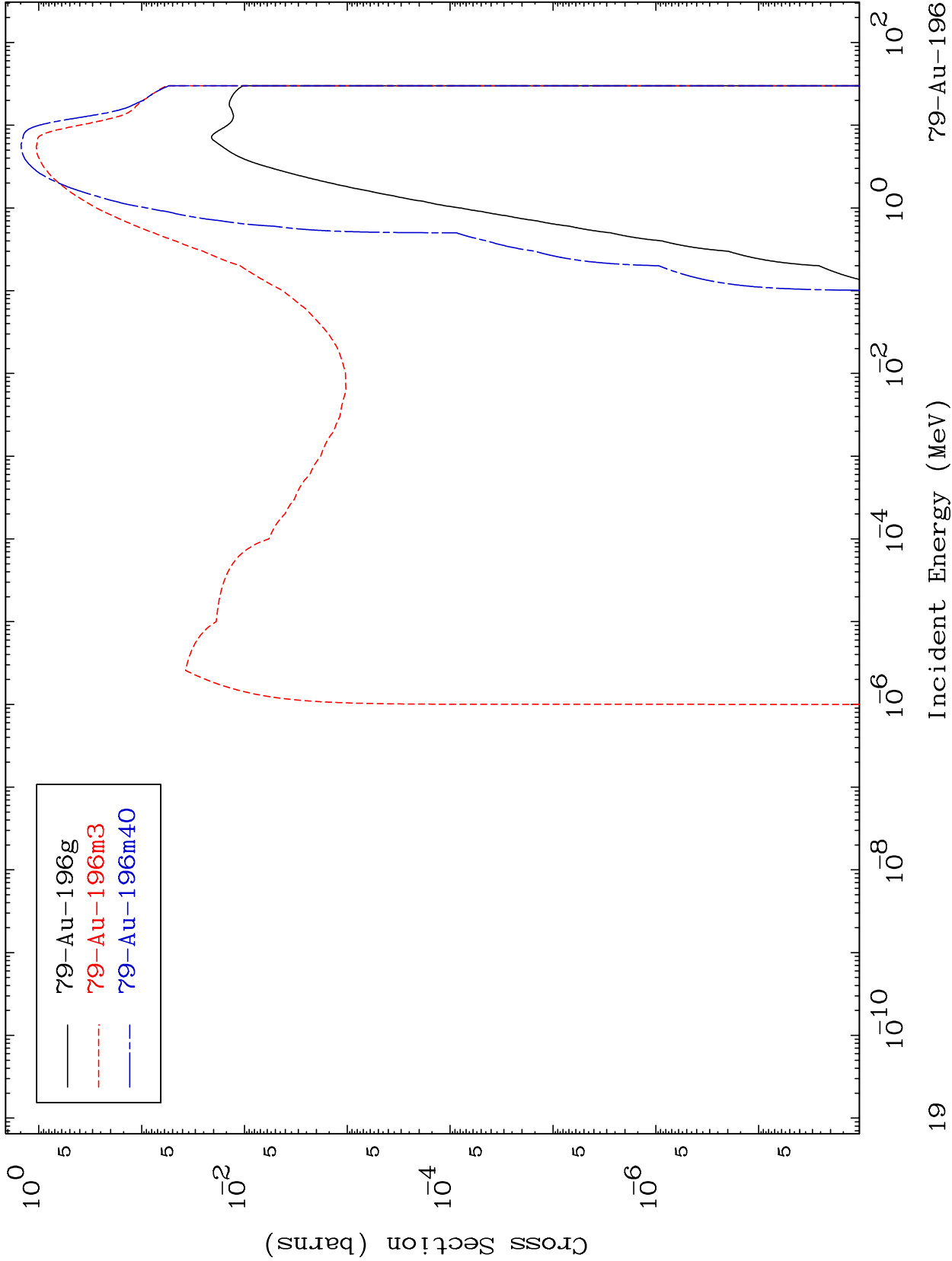
Incident Energy (MeV)

79-Au-196

MAT 7924

Inelastic
Radionuclide Production Cross Section

79-Au-196

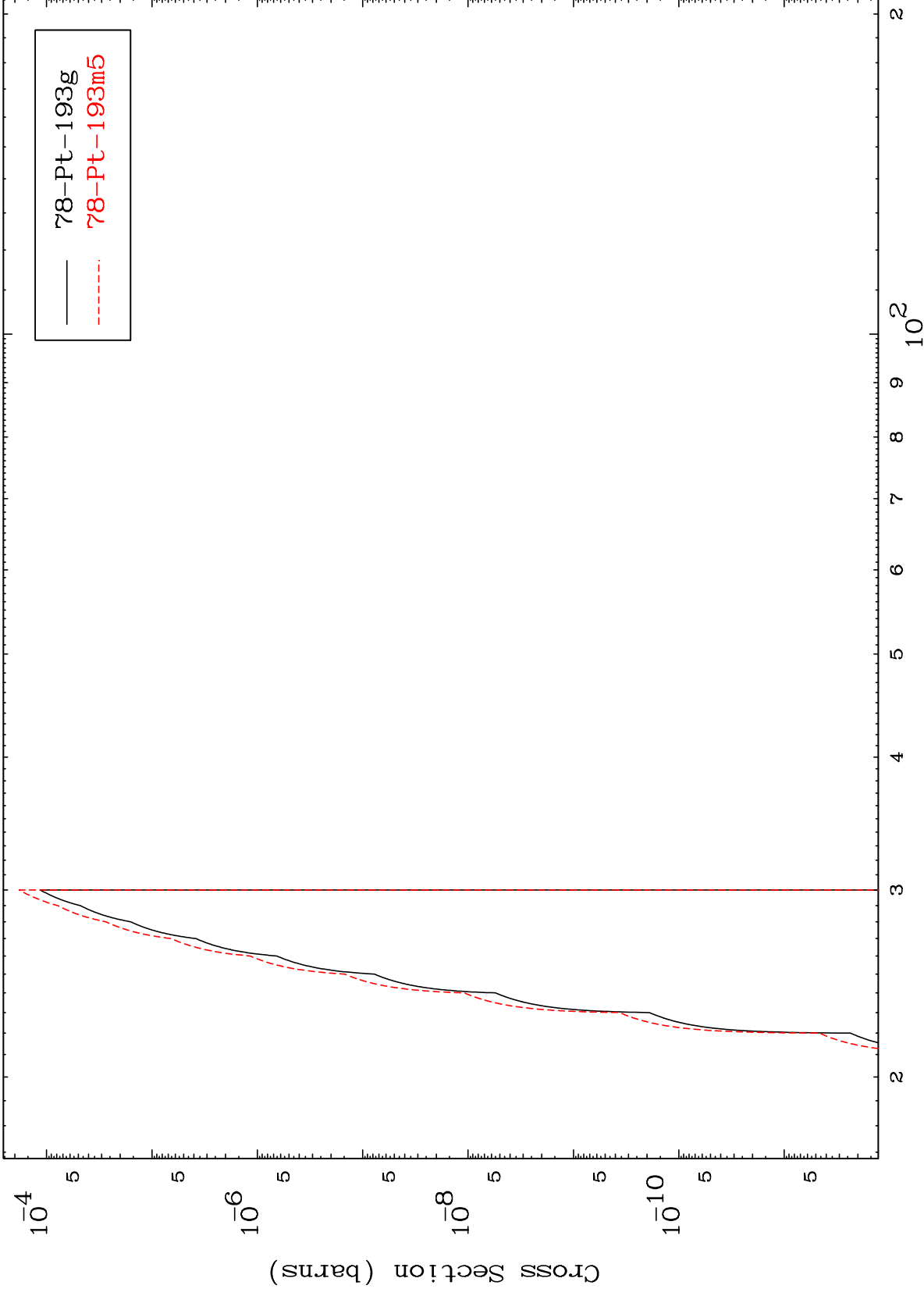


MAT 7924

(n,2n) d

79-Au-196

Radionuclide Production Cross Section



20

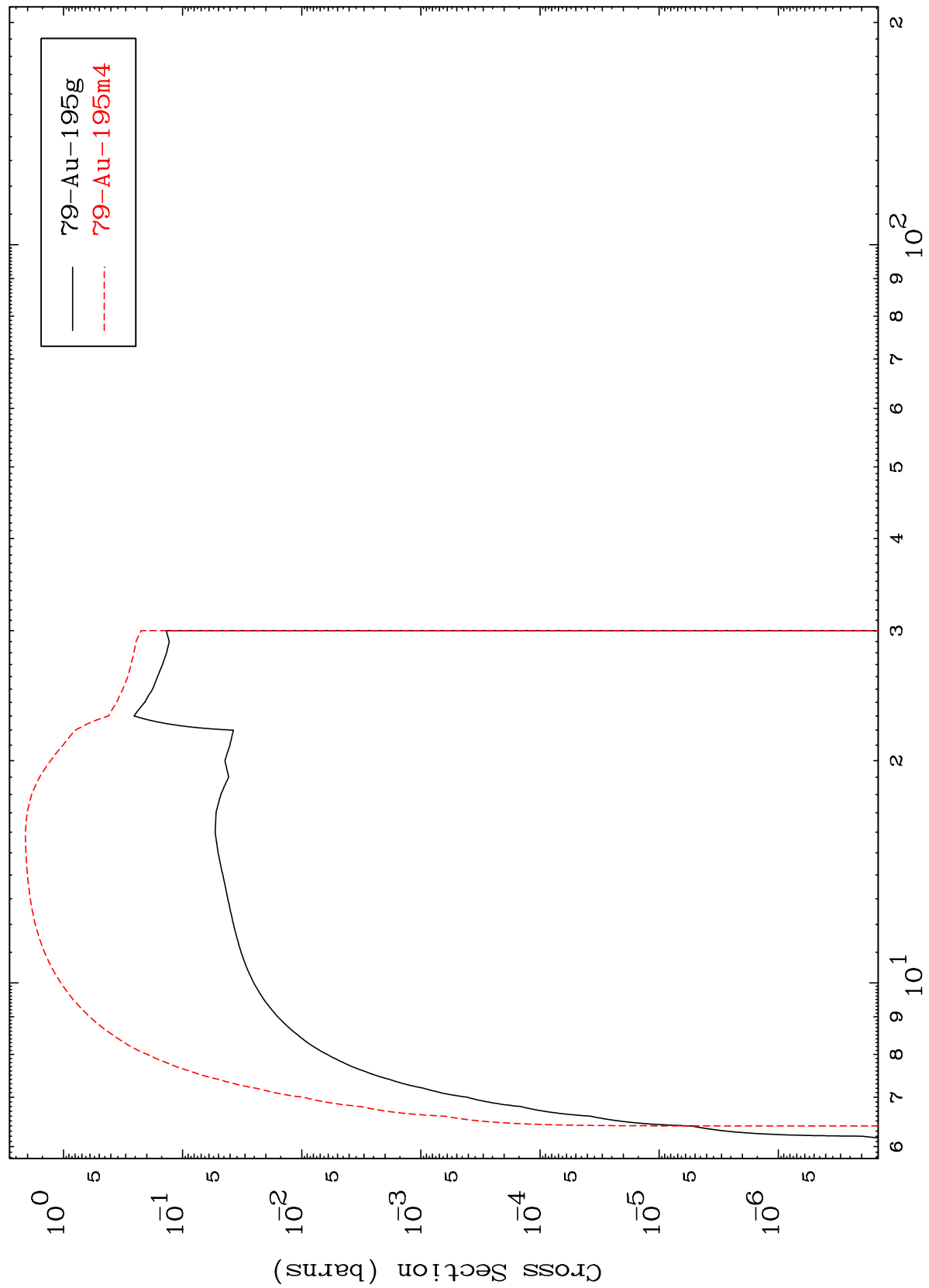
Incident Energy (MeV)

79-Au-196

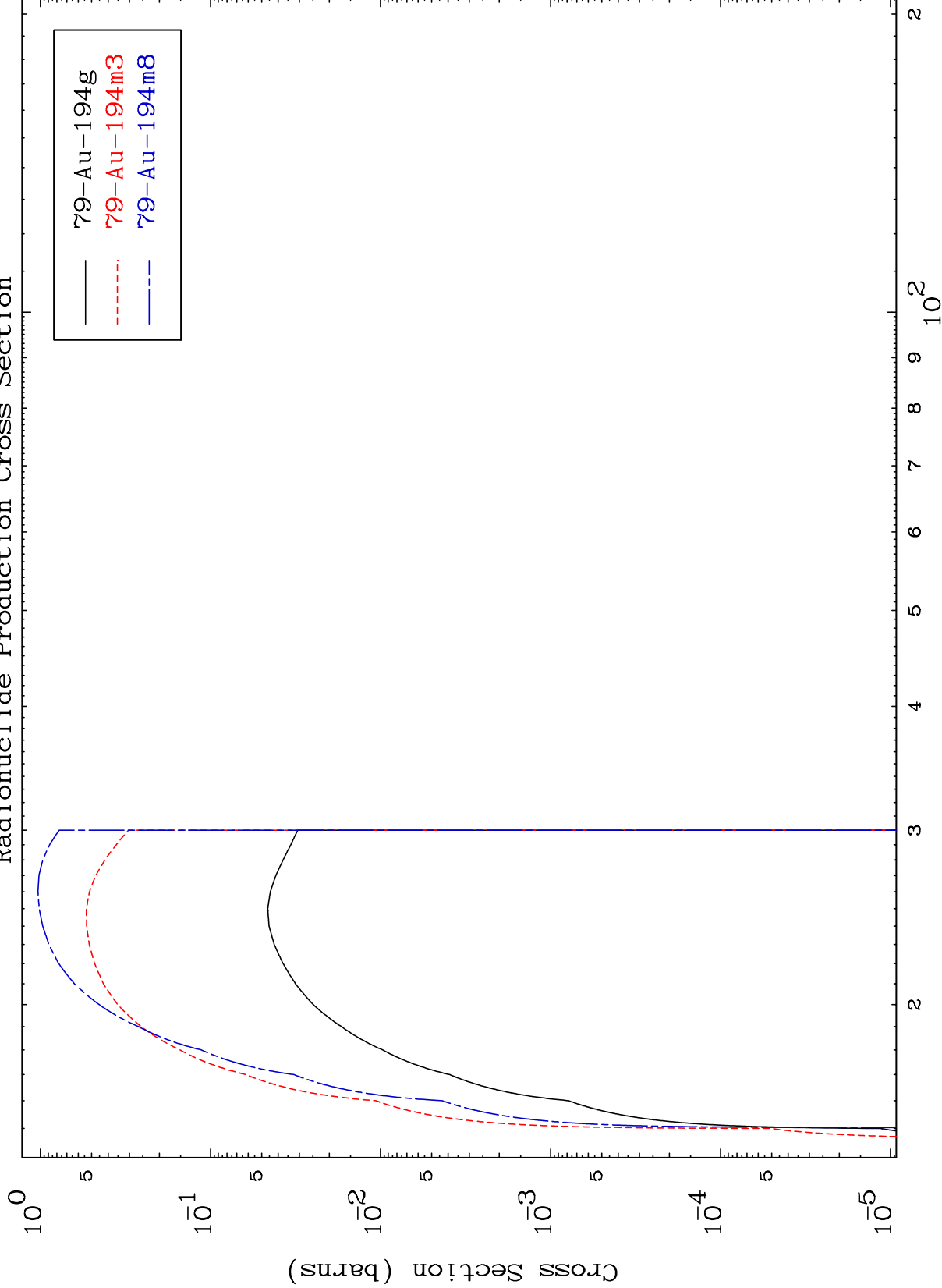
MAT 7924

79-Au-196

(n,2n)
Radionuclide Production Cross Section



Radionuclide Production Cross Section



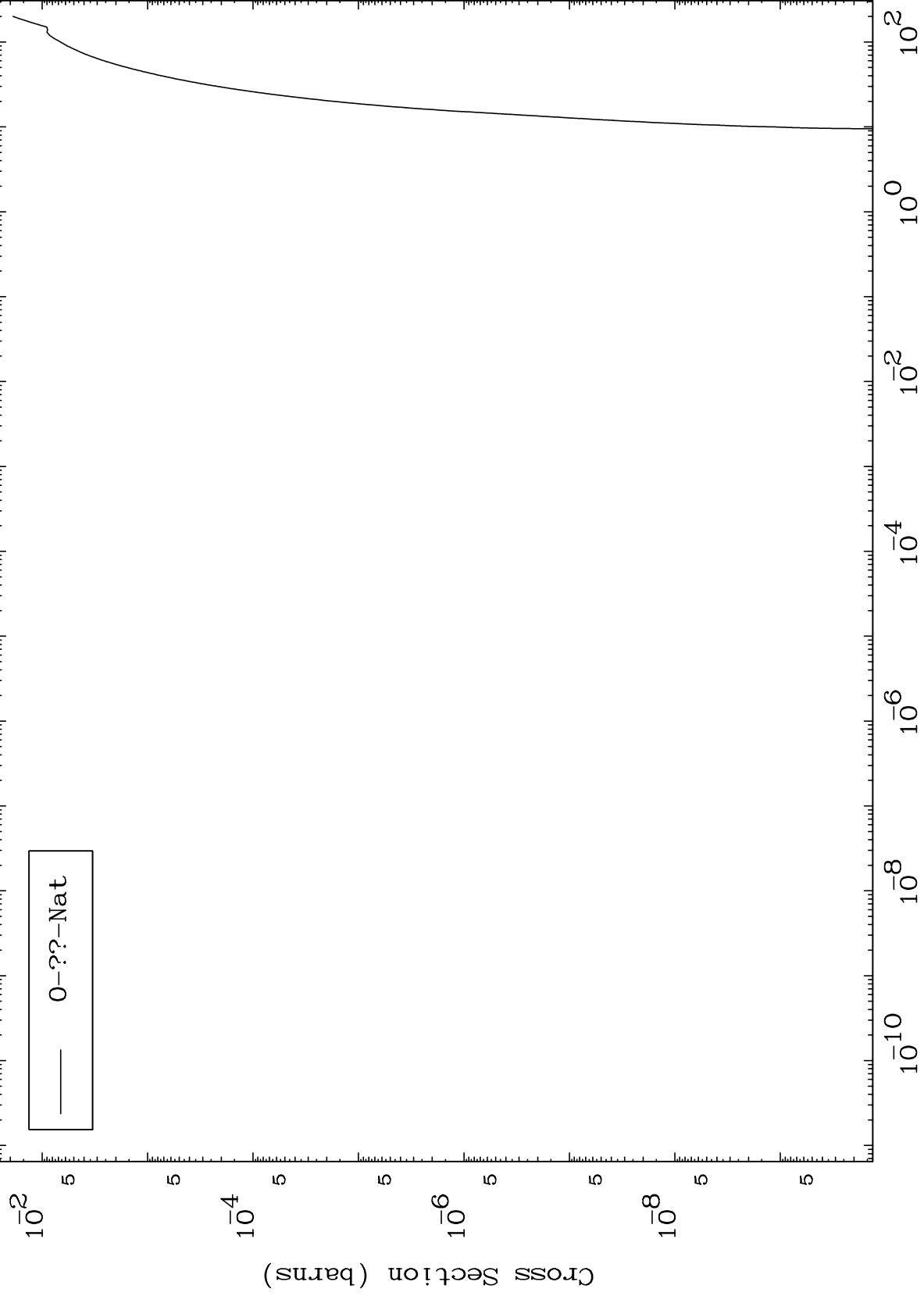
79-Au-194g
79-Au-194m3
79-Au-194m8

MAT 7924

Fission

⁷⁹Au-196

Radionuclide Production Cross Section



23

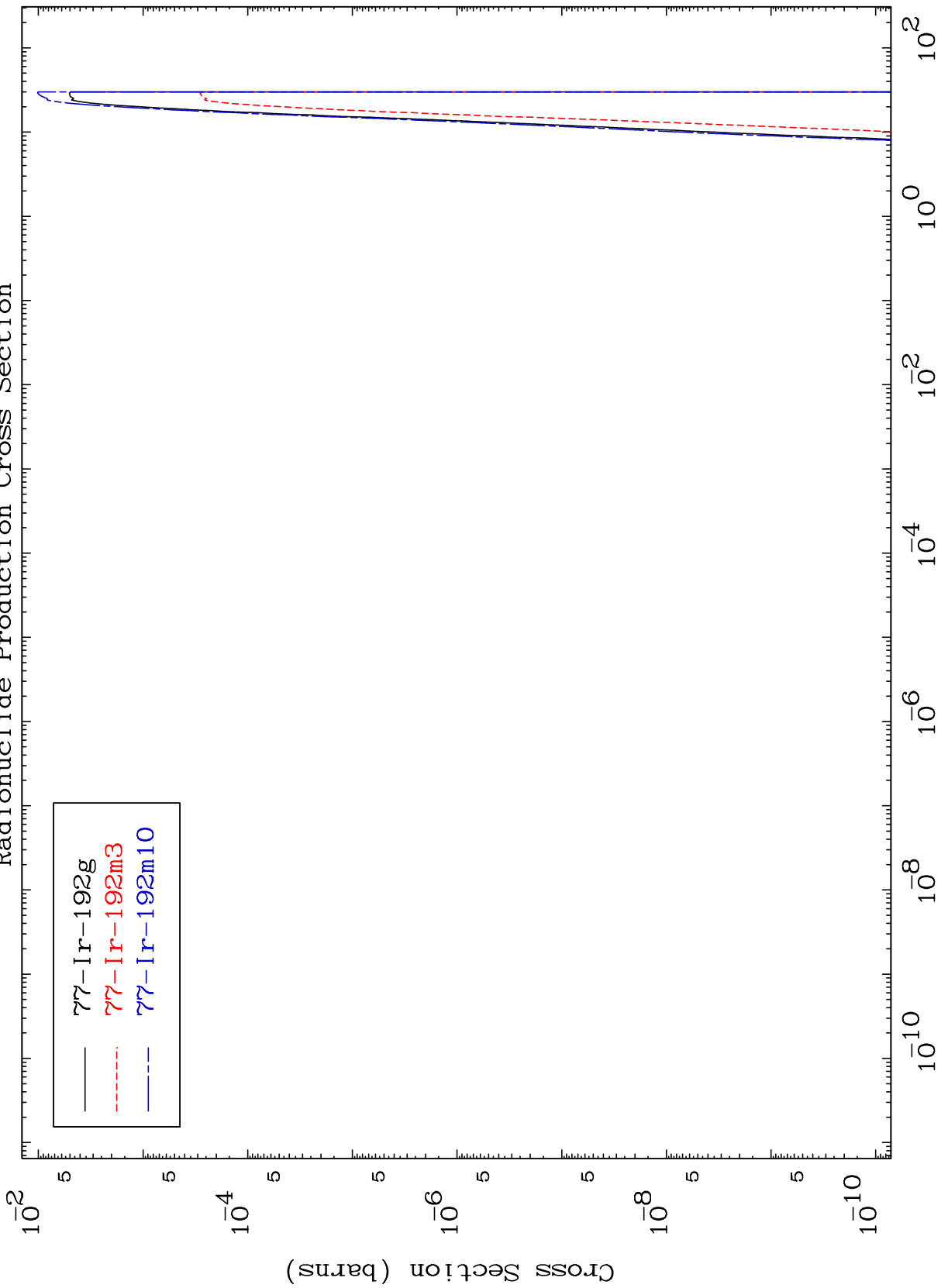
⁷⁹Au-196

MAT 7924

$(n, n') \alpha$

79-Au-196

Radionuclide Production Cross Section



24

Incident Energy (MeV)

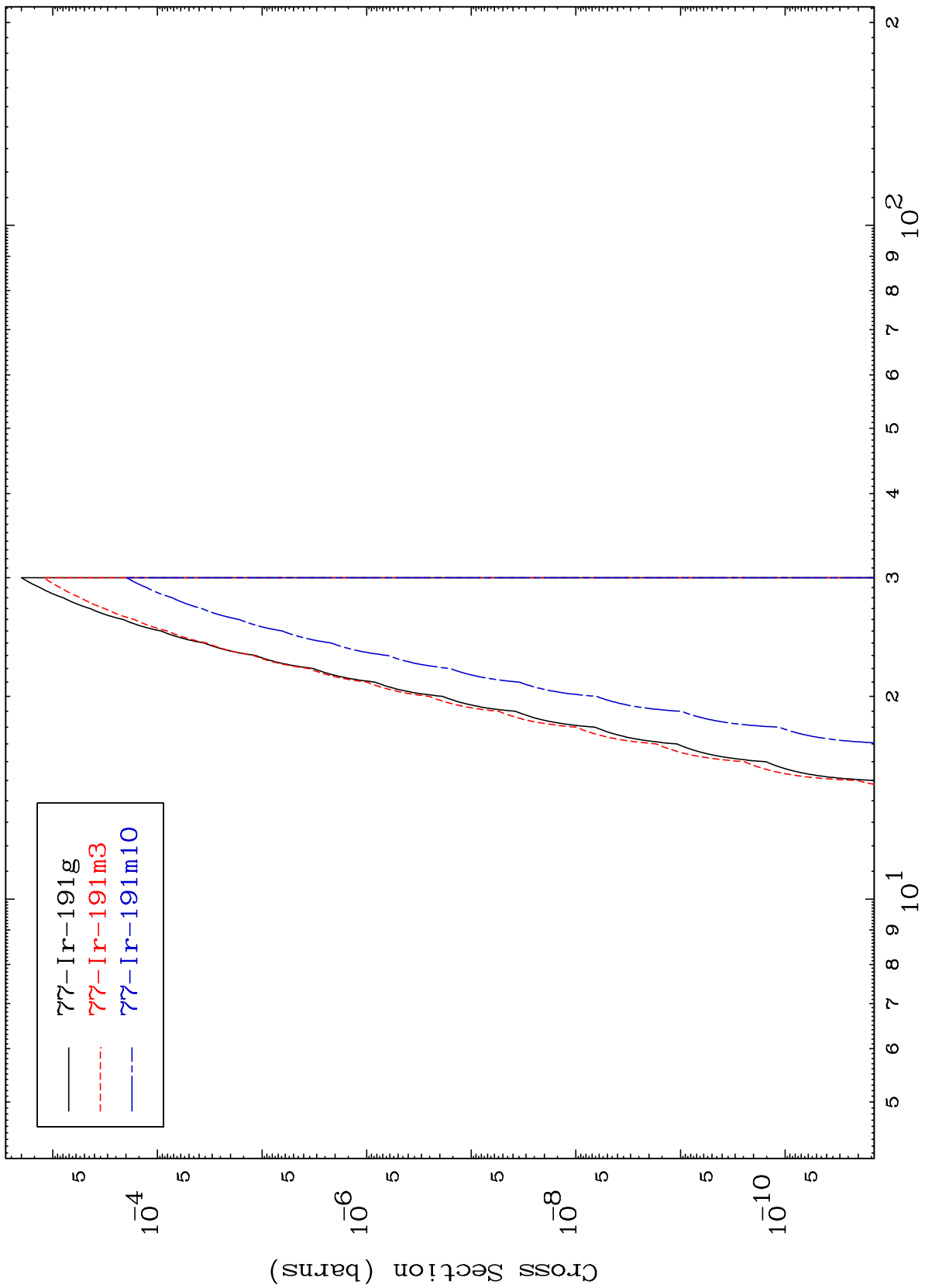
79-Au-196

MAT 7924

$(n,2n) \alpha$

$^{79}\text{Au-196}$

Radionuclide Production Cross Section

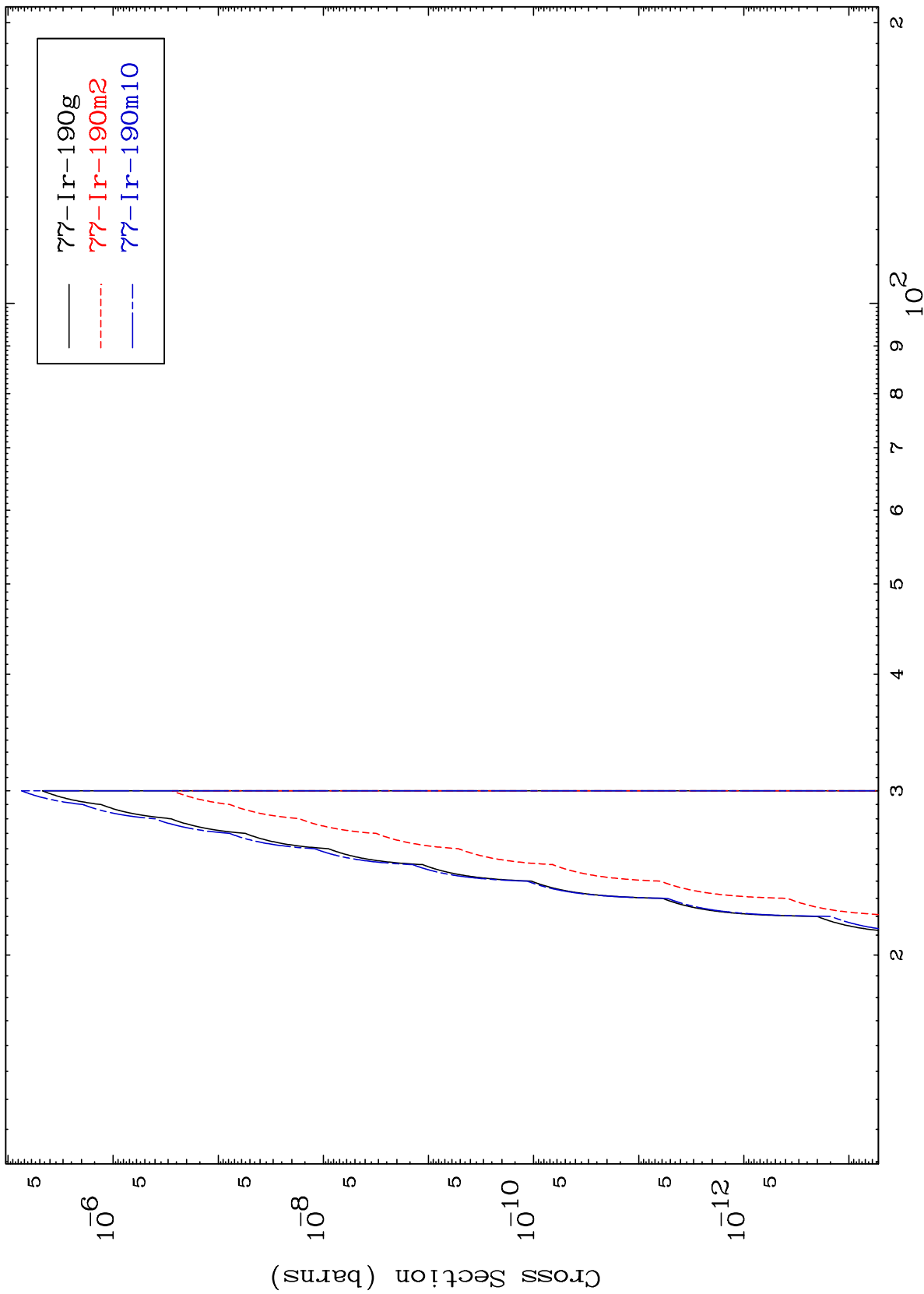


25

Incident Energy (MeV)

$^{79}\text{Au-196}$

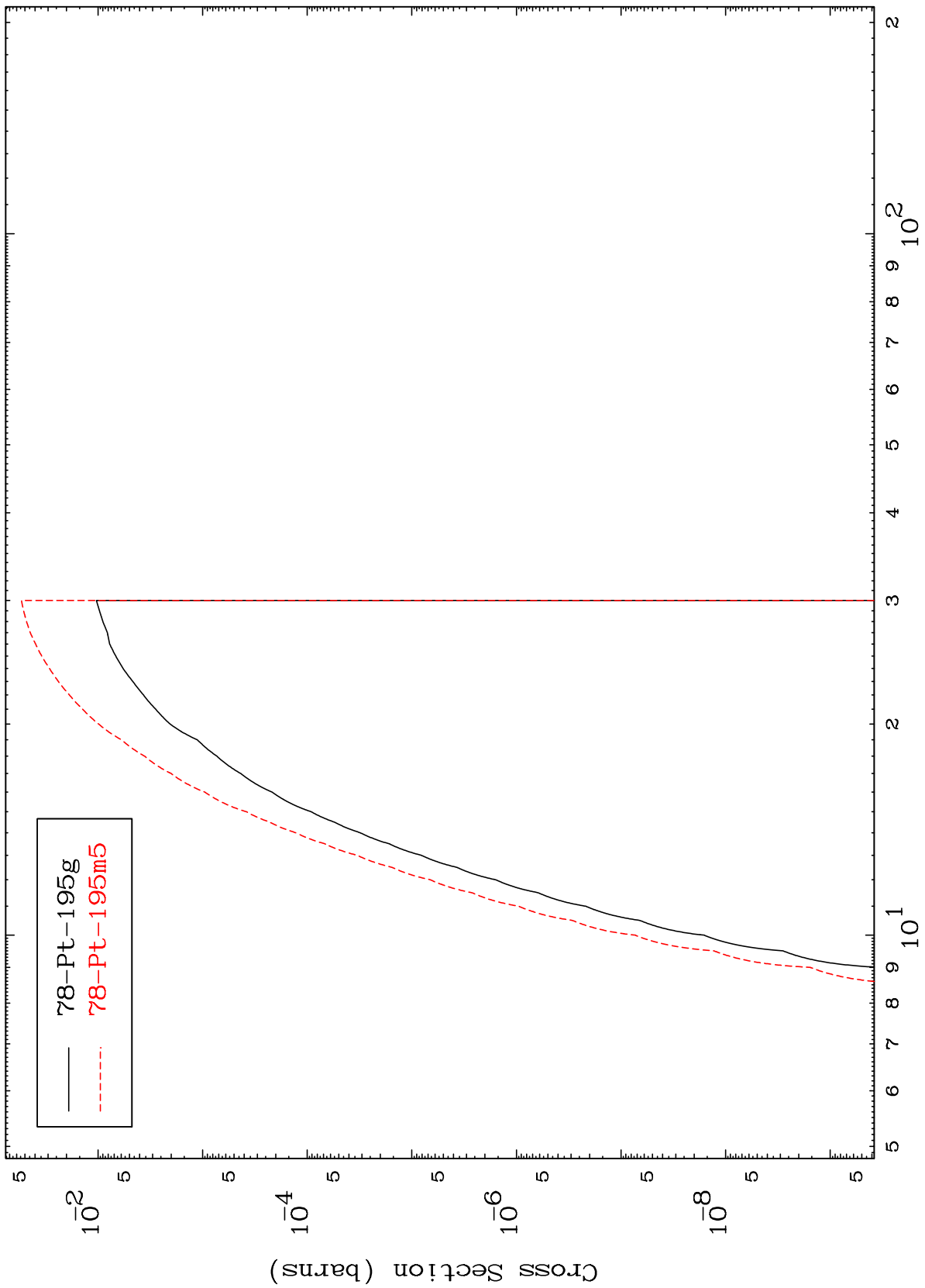
Radionuclide Production Cross Section



MAT 7924

79-Au-196

(n,n') p
Radionuclide Production Cross Section

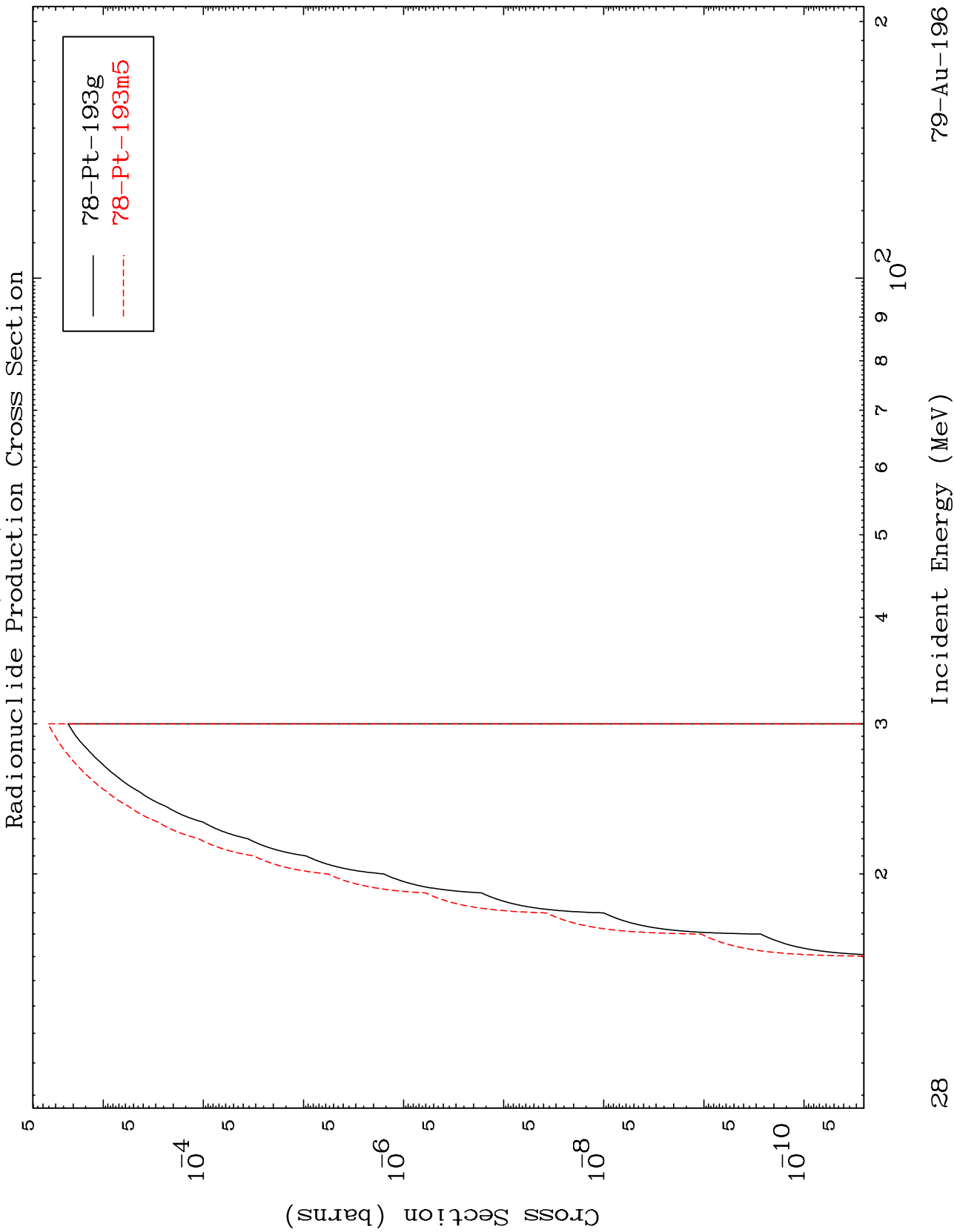


78-Pt-195g
78-Pt-195m5

27

Incident Energy (MeV)

79-Au-196

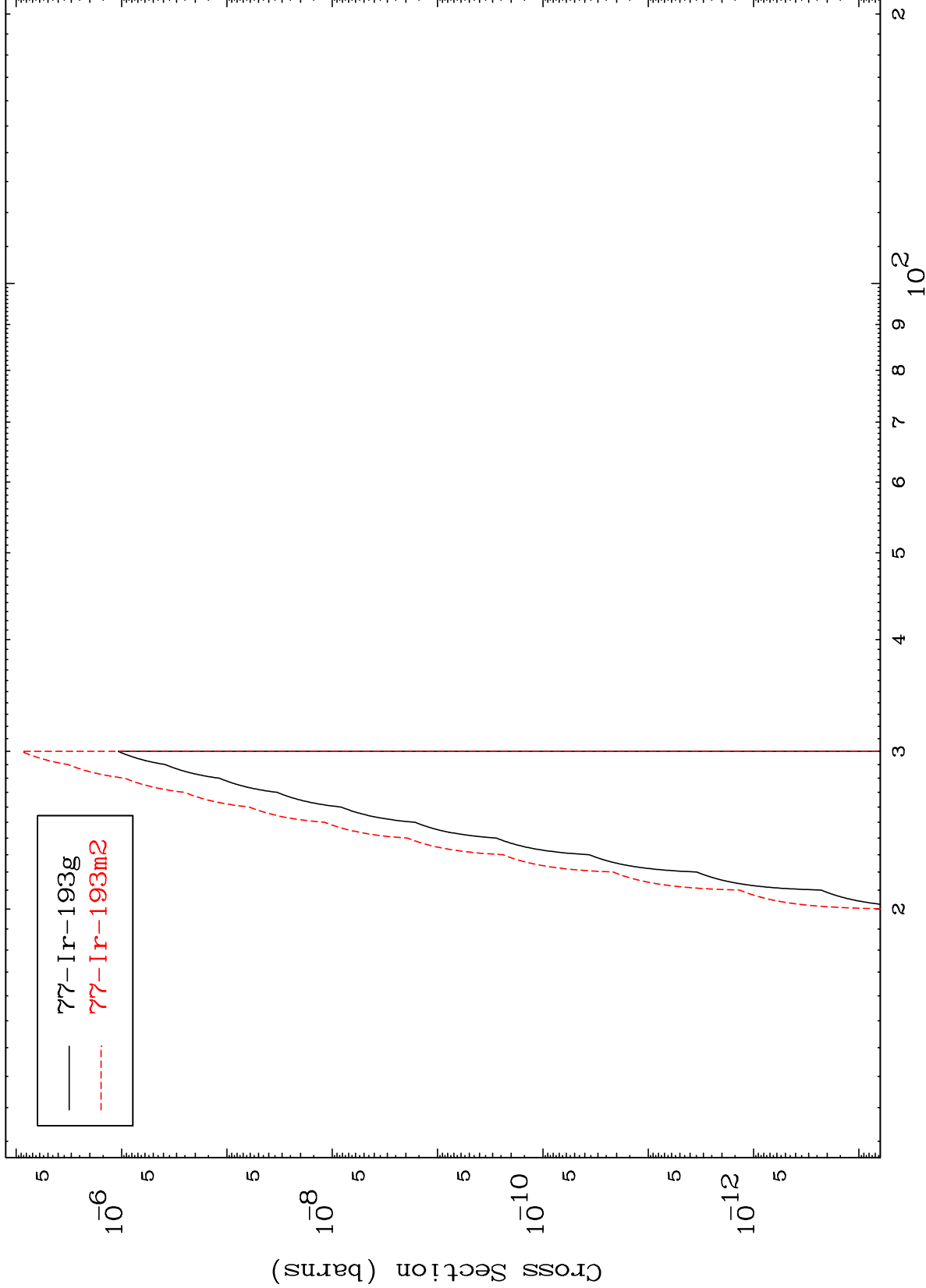


MAT 7924

(n,n') He-3

79-Au-196

Radionuclide Production Cross Section

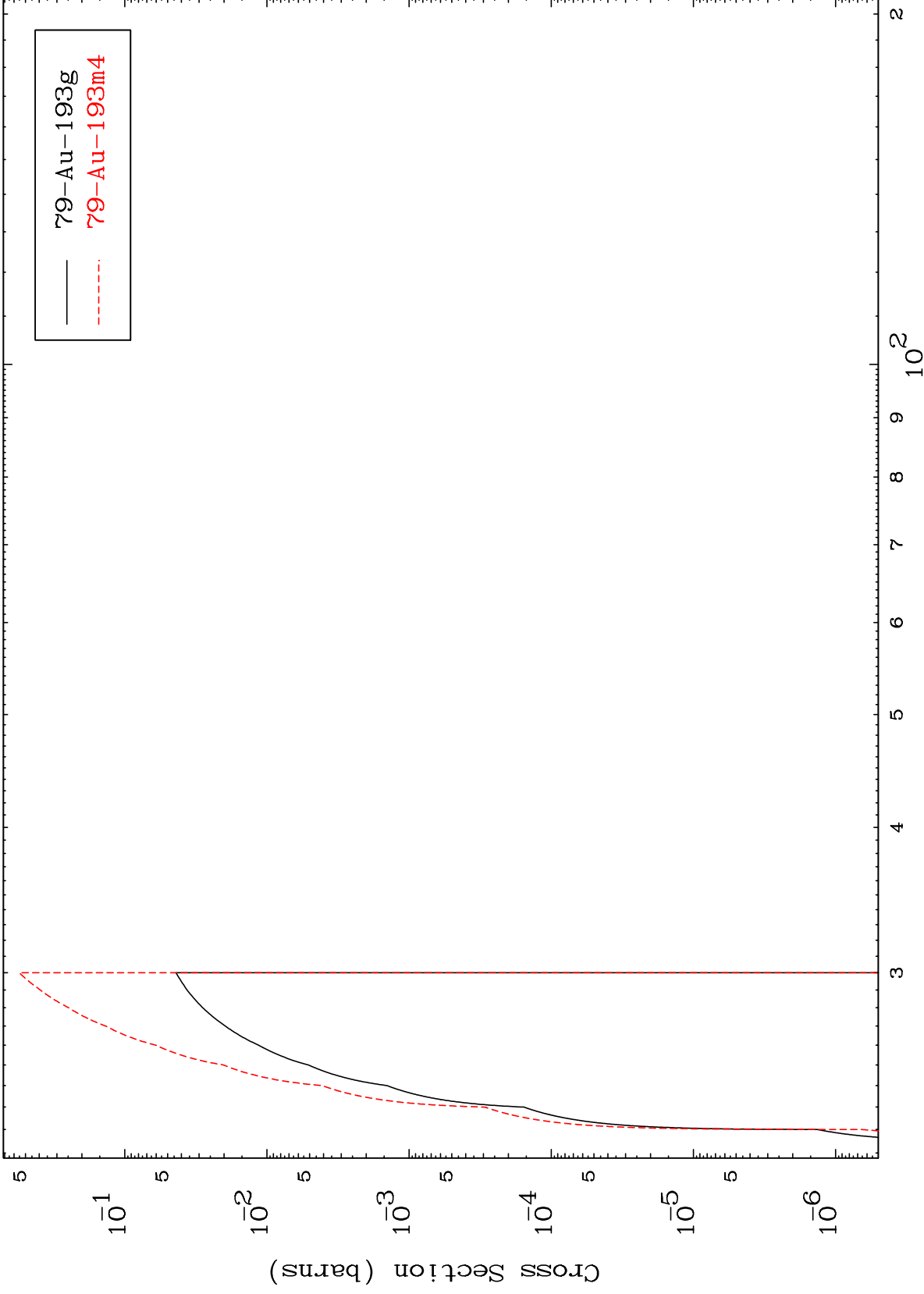


MAT 7924

(n,4n)

79-Au-196

Radionuclide Production Cross Section



79-Au-193g
79-Au-193m4

30

Incident Energy (MeV)

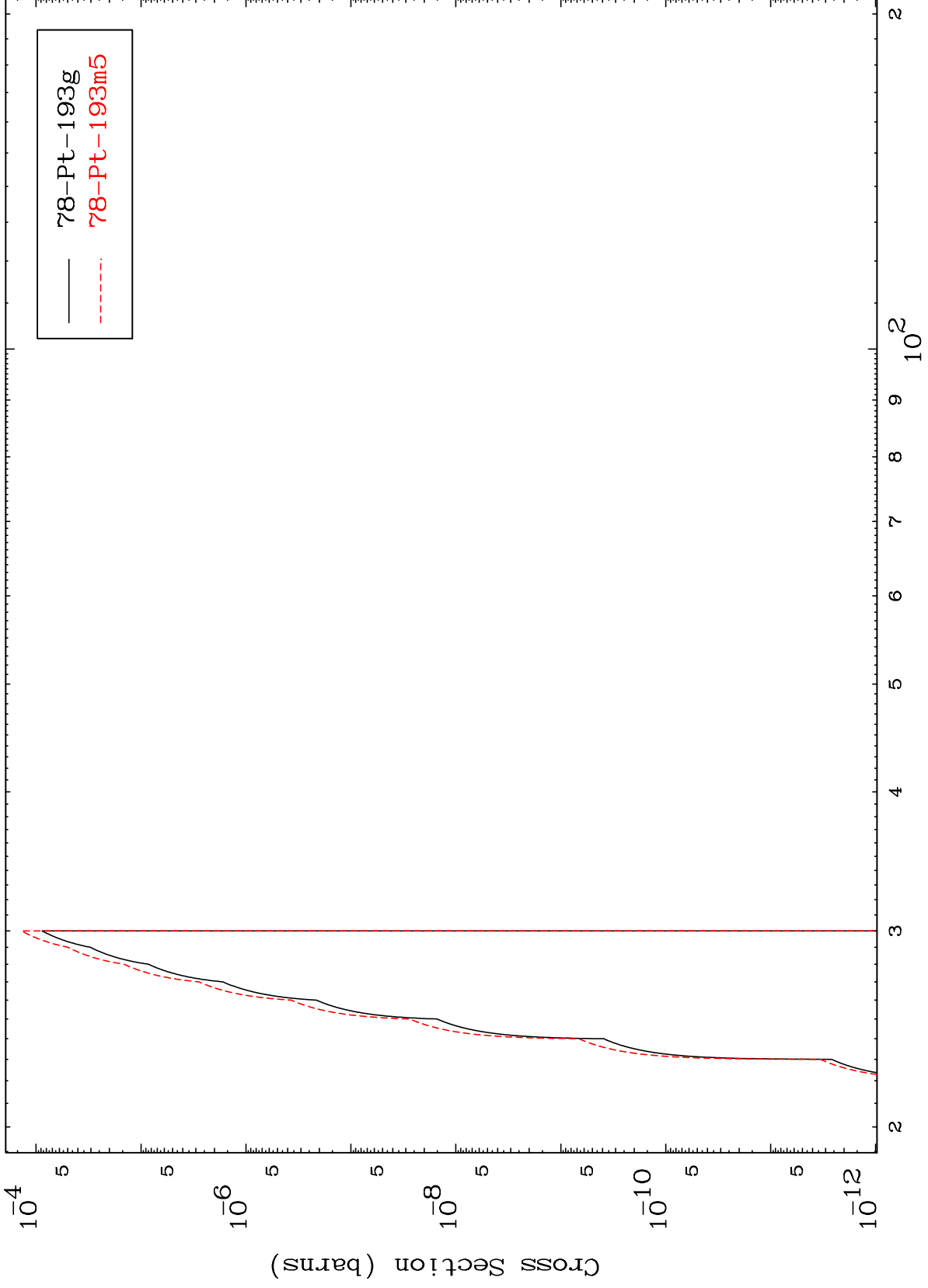
79-Au-196

MAT 7924

(n,3n) p

79-Au-196

Radionuclide Production Cross Section



31

Incident Energy (MeV)

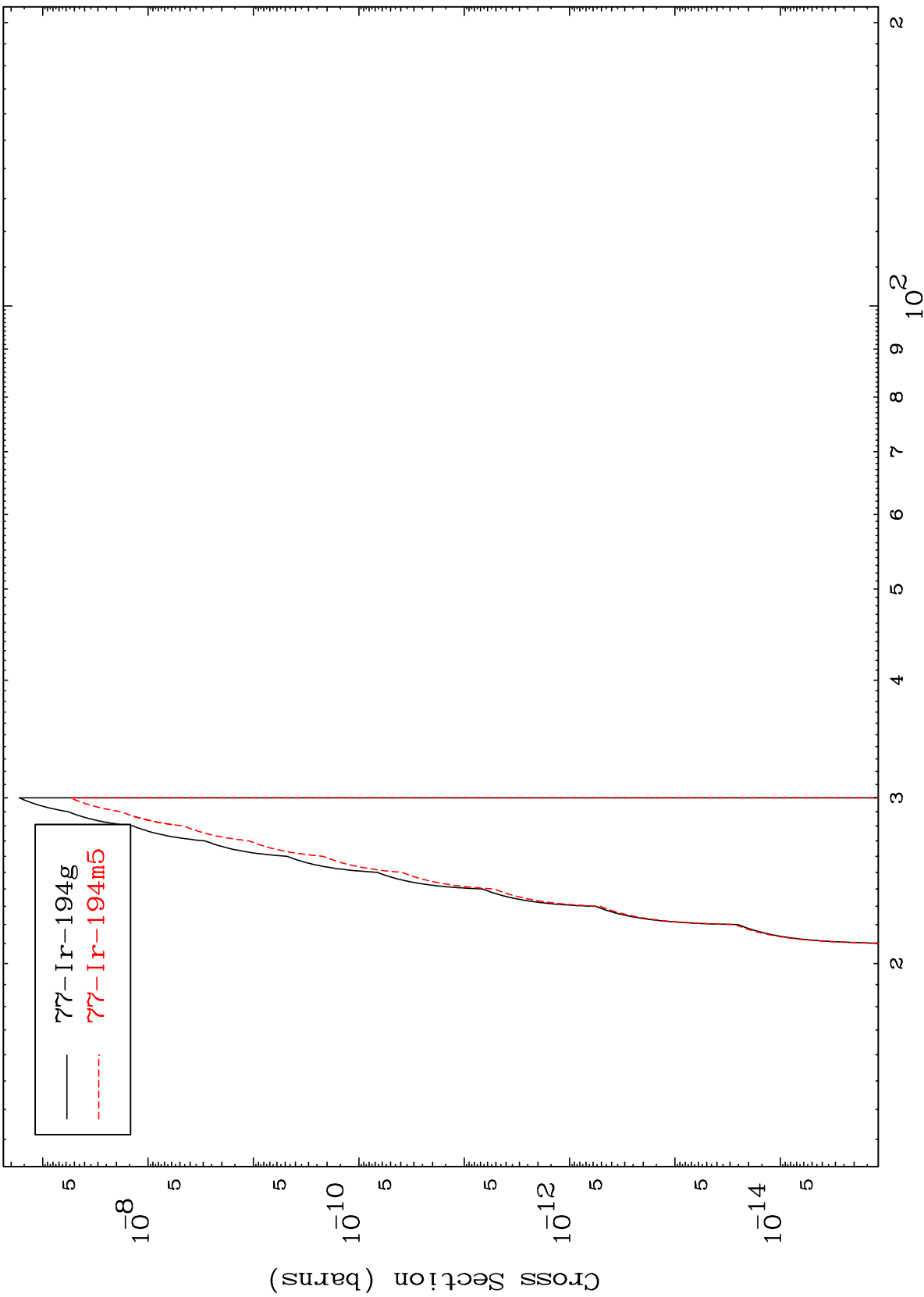
79-Au-196

MAT 7924

(n,2n) p

79-Au-196

Radionuclide Production Cross Section

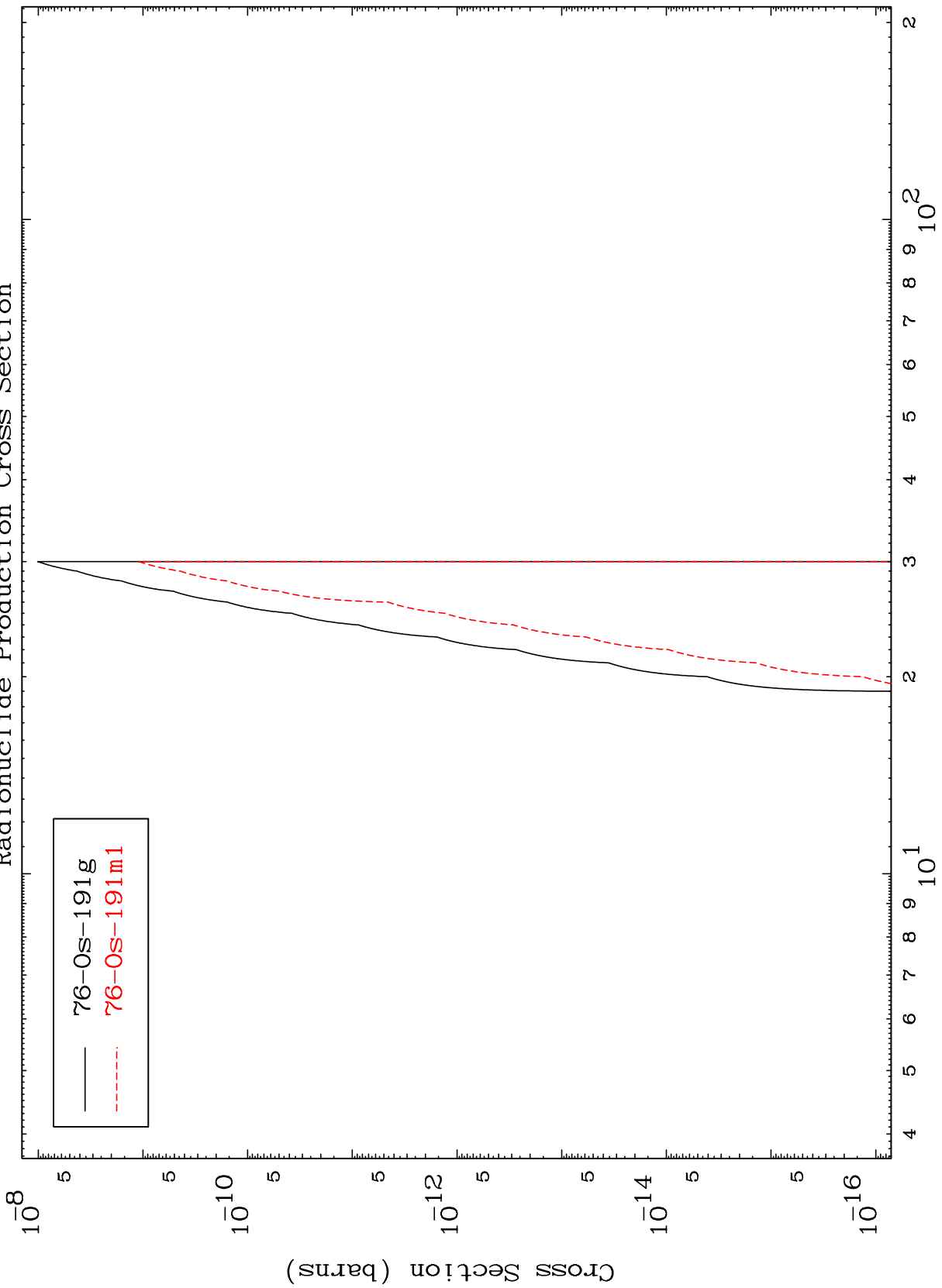


MAT 7924

(n,n') p α

79-Au-196

Radionuclide Production Cross Section

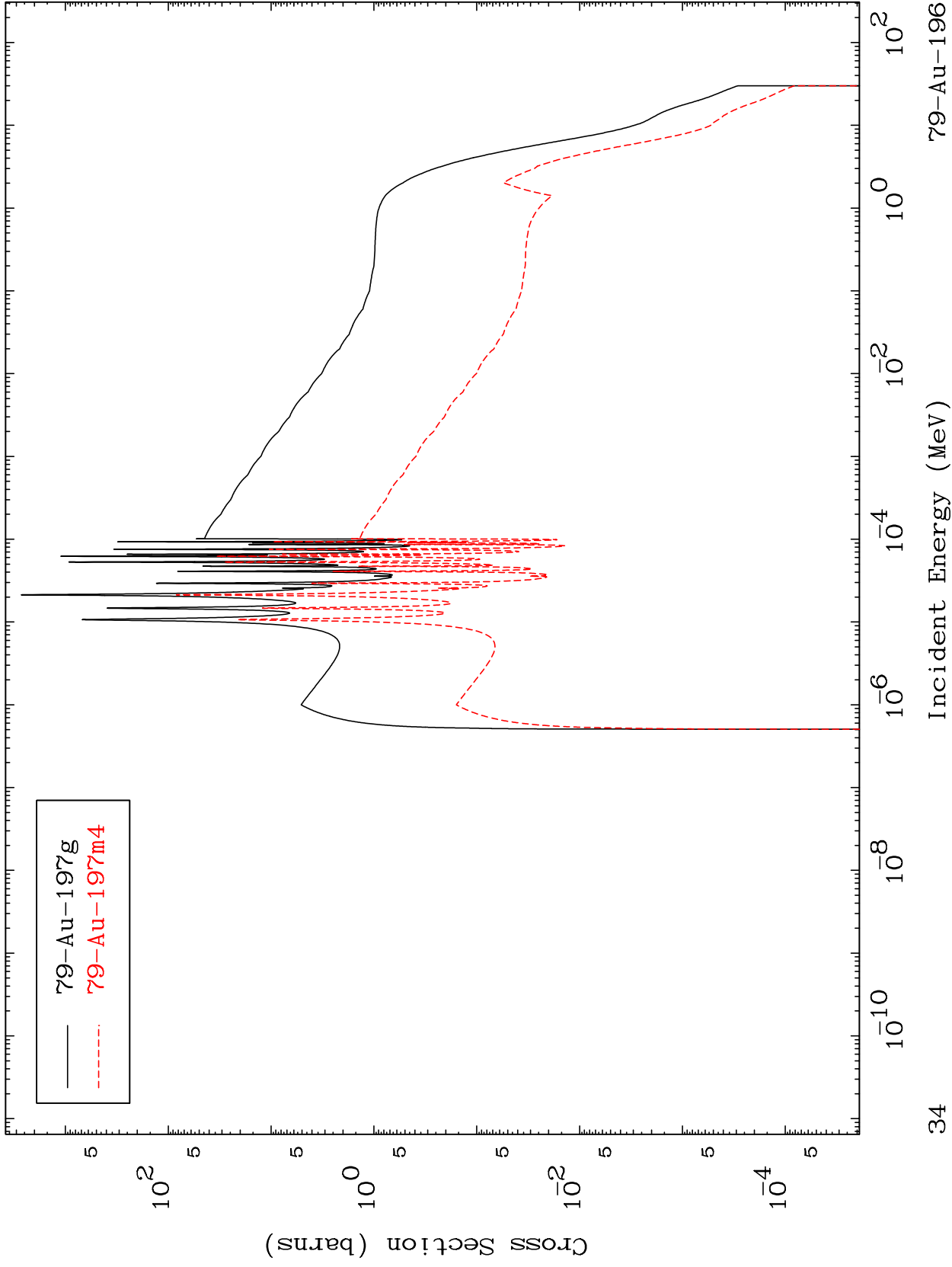


76-Os-191g
76-Os-191m1

MAT 7924

79-Au-196

(n, γ)
Radionuclide Production Cross Section



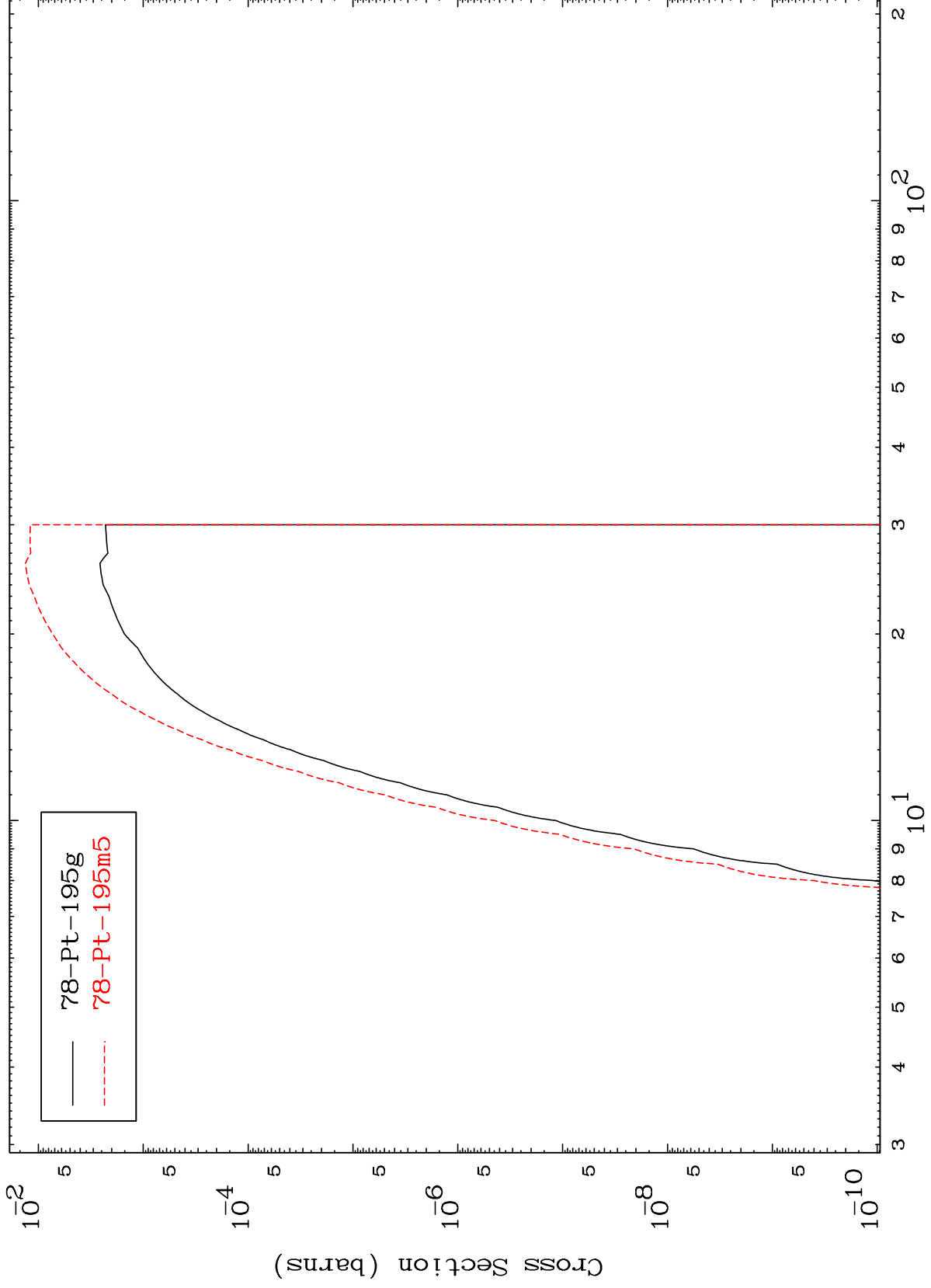
34

79-Au-196

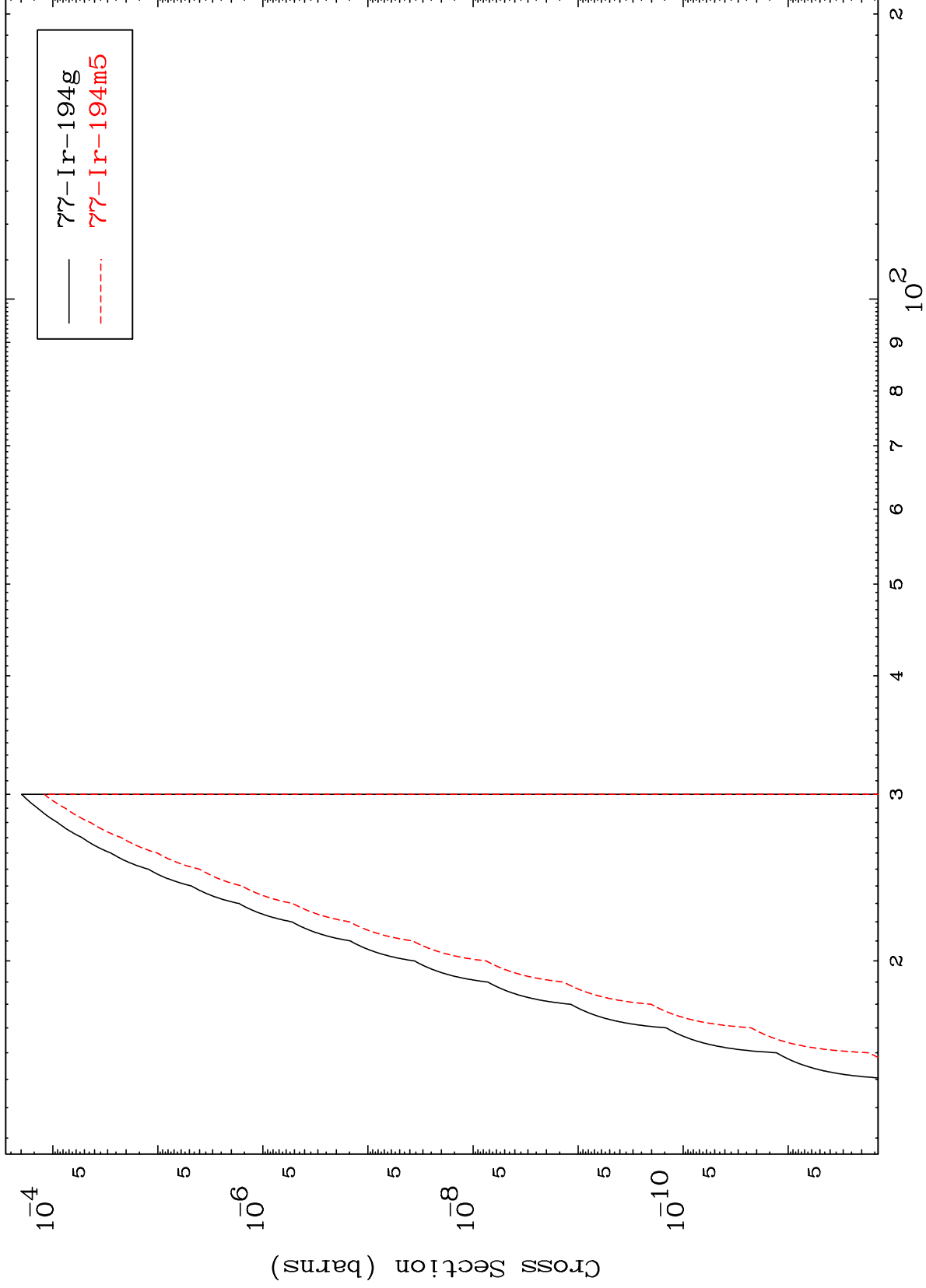
MAT 7924

79-Au-196

(n,d)
Radionuclide Production Cross Section



Radionuclide Production Cross Section

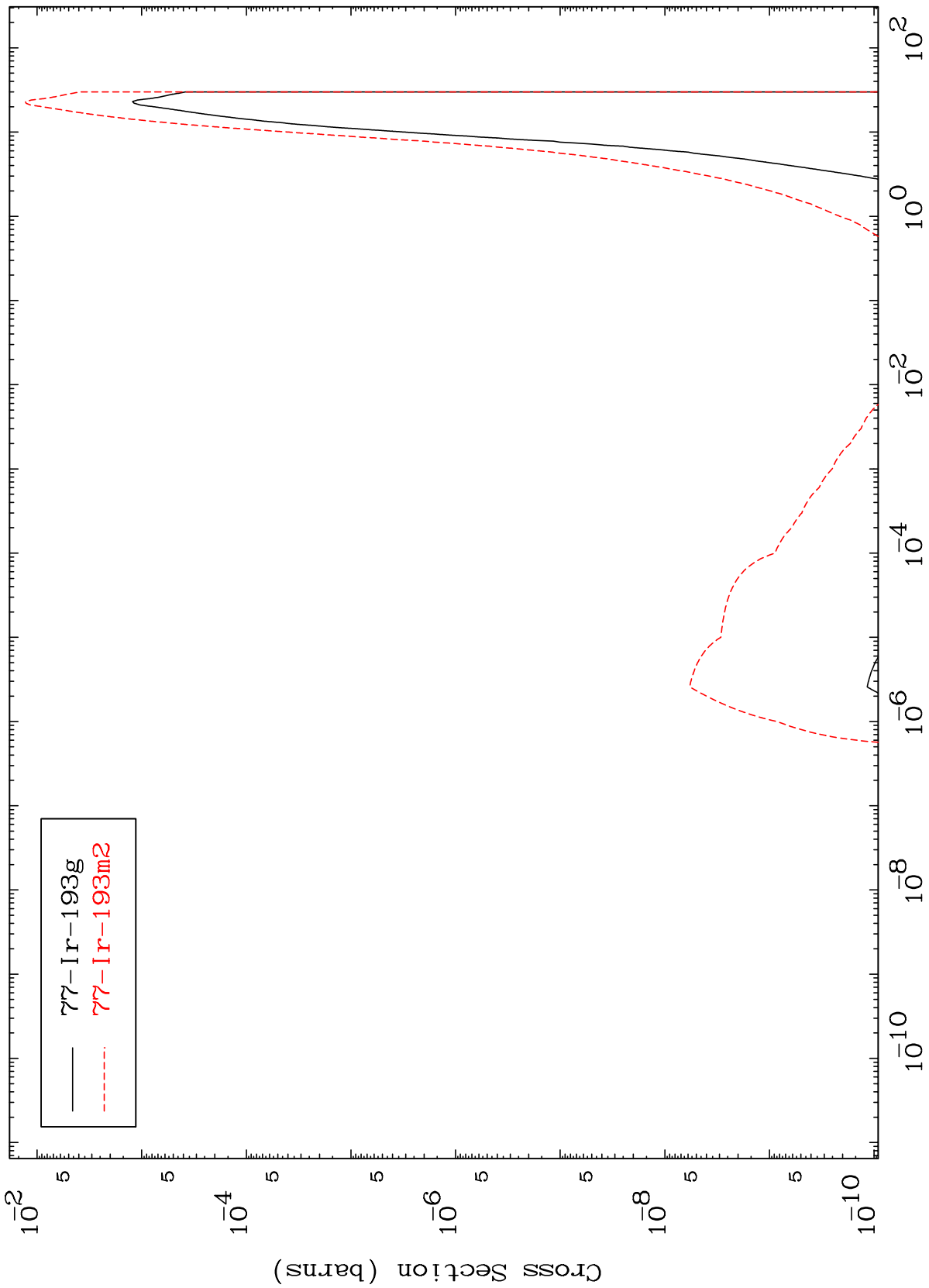


MAT 7924

(n, α)

79-Au-196

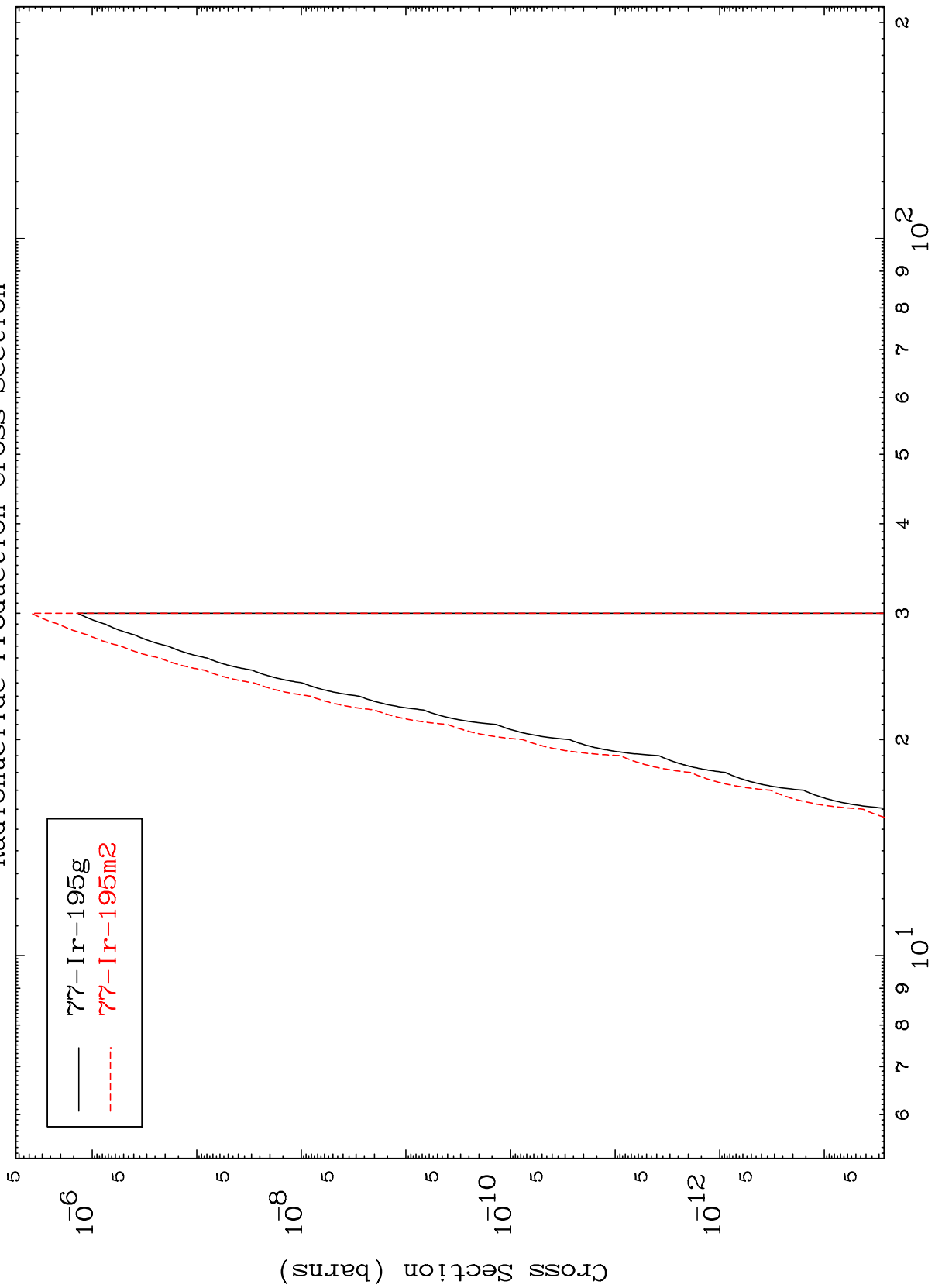
Radionuclide Production Cross Section



MAT 7924

79-Au-196

(n,2p)
Radionuclide Production Cross Section



38

Incident Energy (MeV)

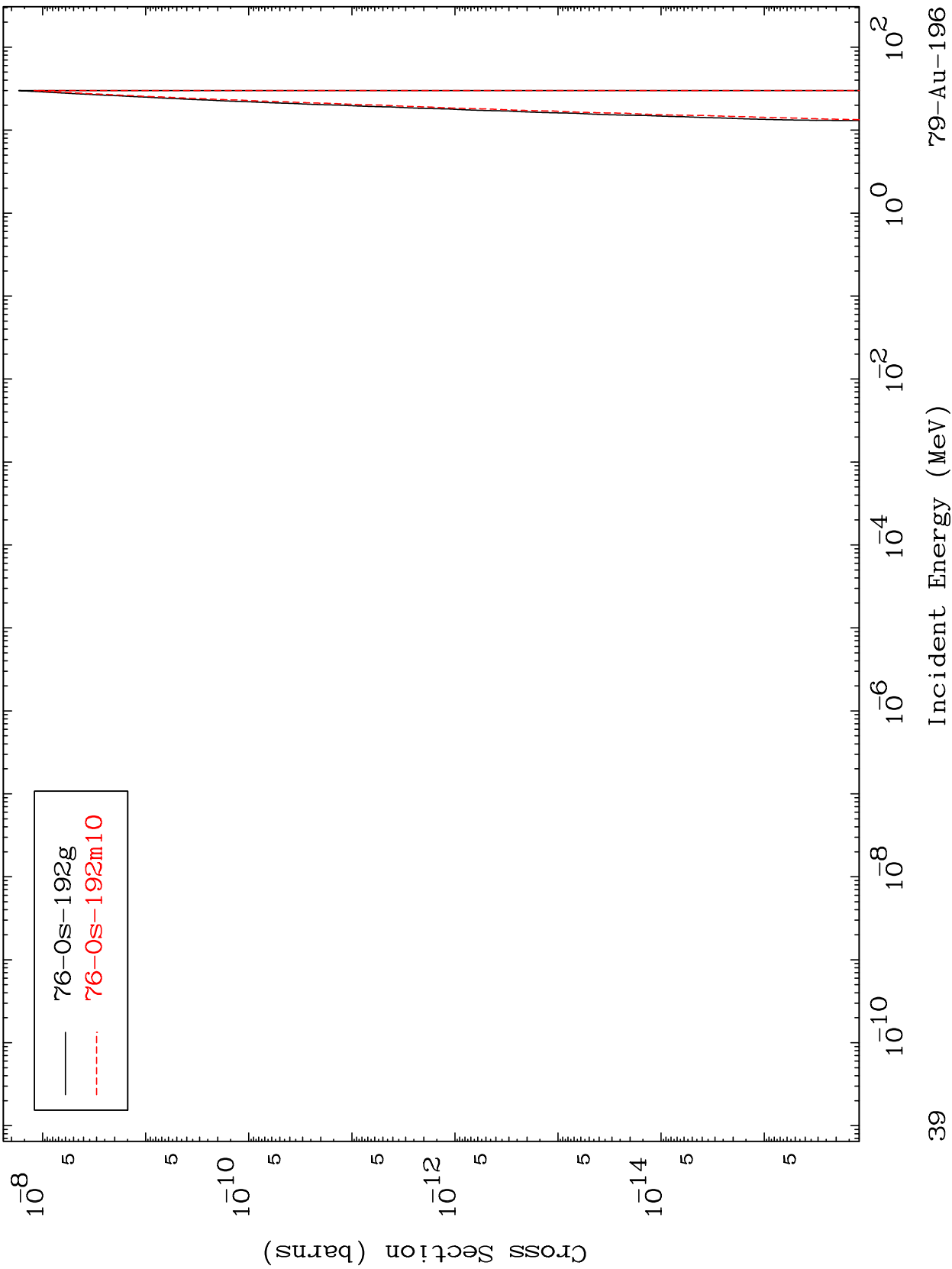
79-Au-196

MAT 7924

(n,p) α

⁷⁹Au-196

Radionuclide Production Cross Section

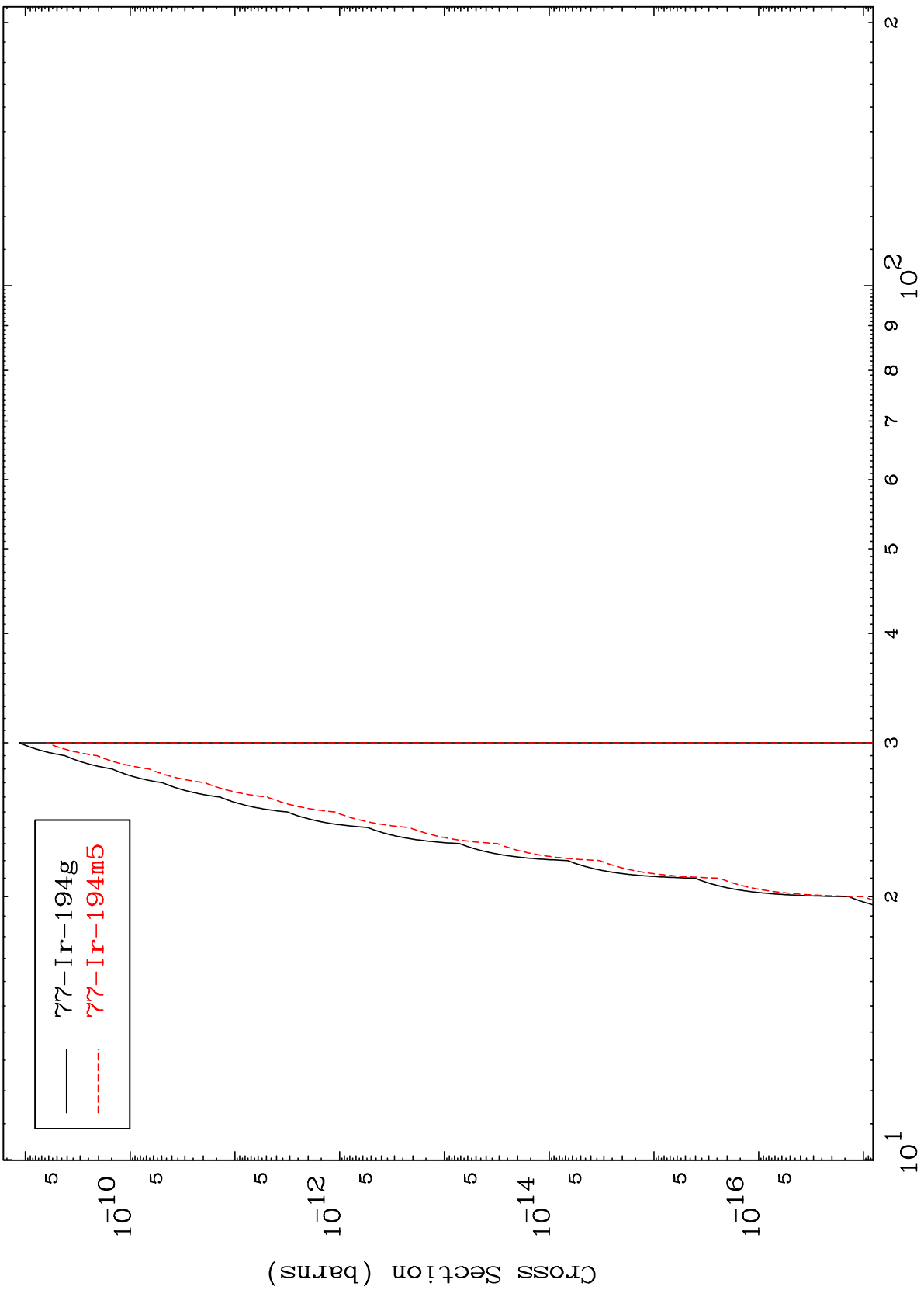


MAT 7924

(n,p) d

79-Au-196

Radionuclide Production Cross Section



79-Au-196

79-Au-196

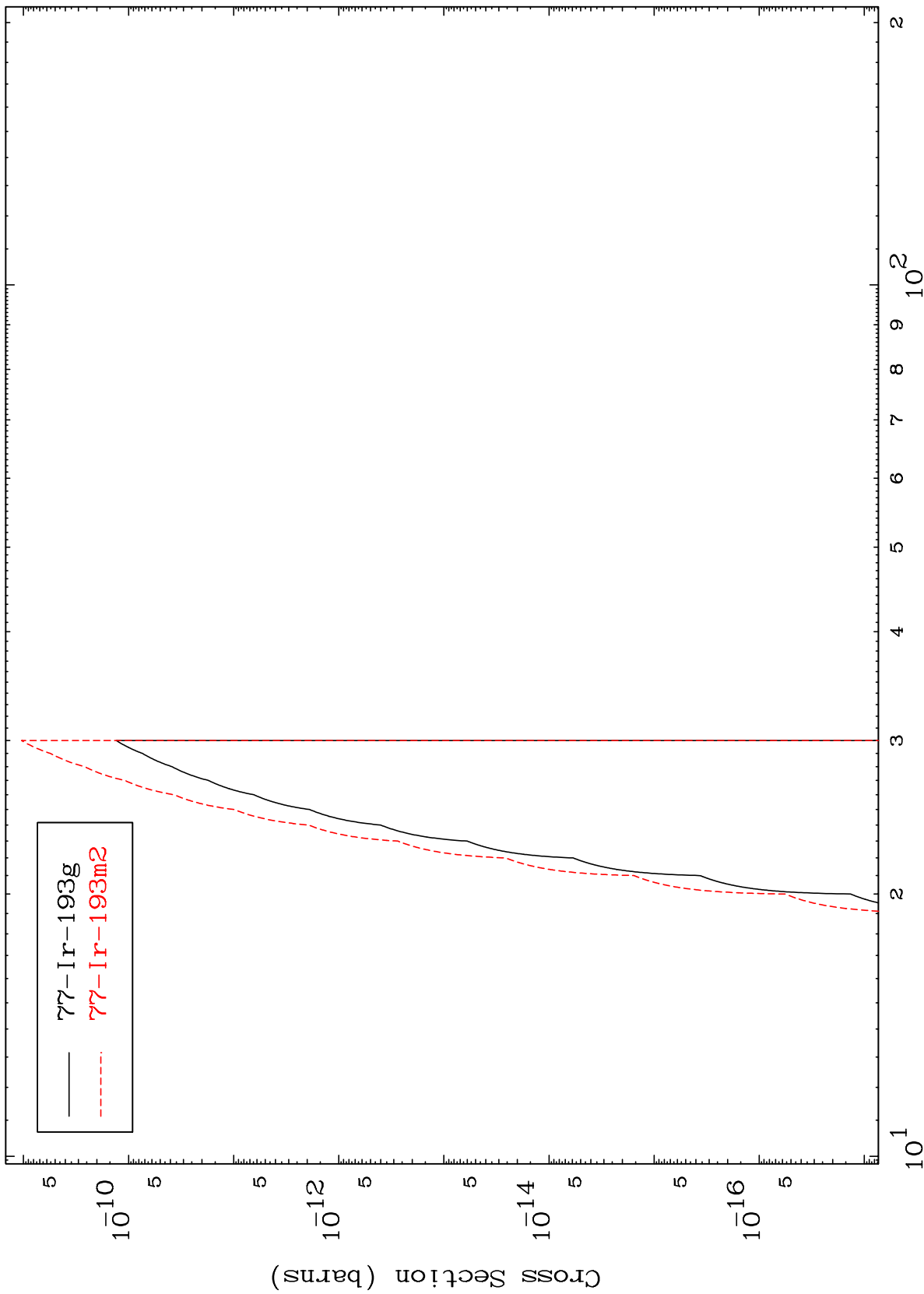
40

MAT 7924

(n,p) t

79-Au-196

Radionuclide Production Cross Section



77-Ir-193g
77-Ir-193m2

79-Au-196

Incident Energy (MeV)

41