

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](mailto:redcullen1@comcast.net)

Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

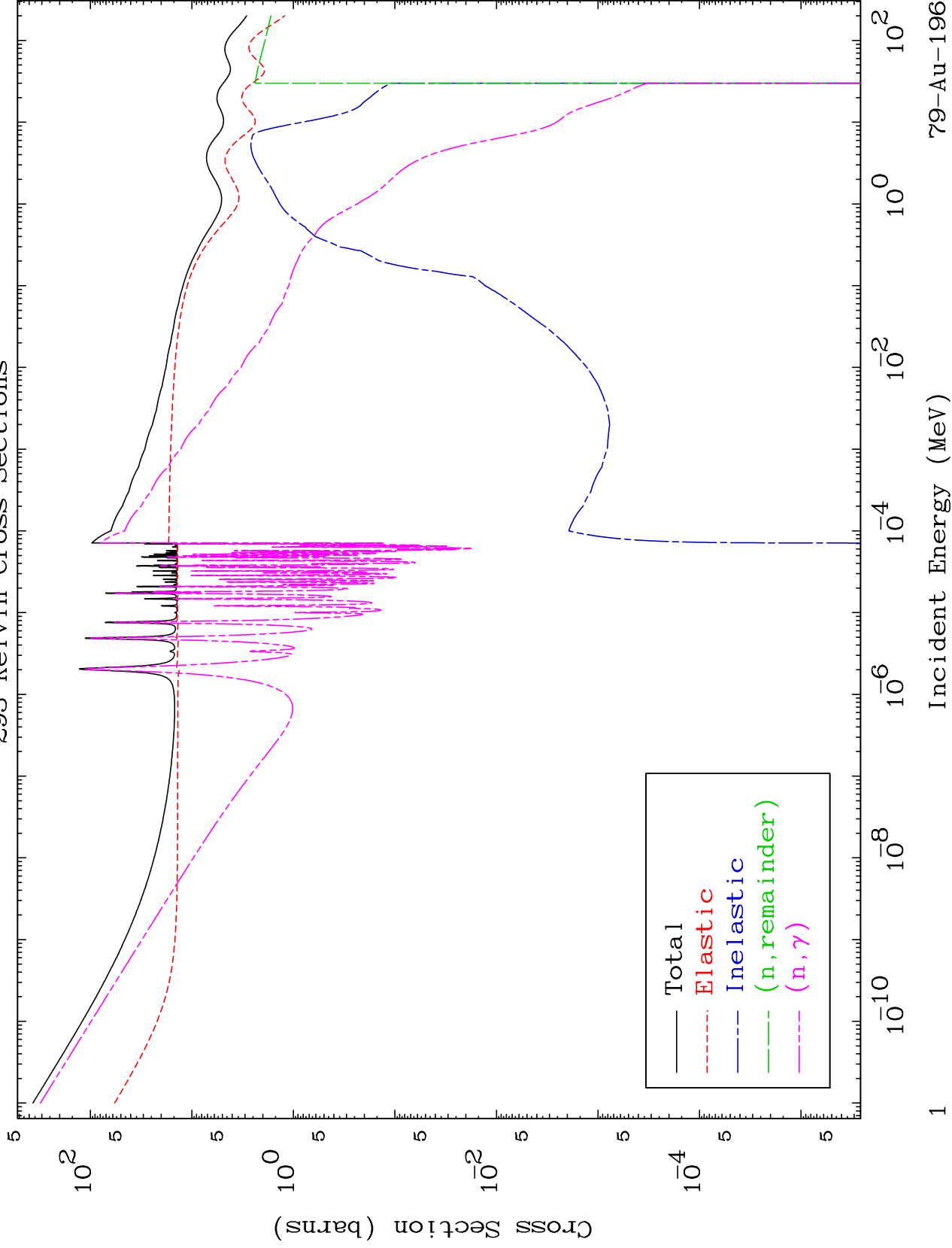
Press Mouse Button to Start

MAT 7923

Major

293 Kelvin Cross Sections

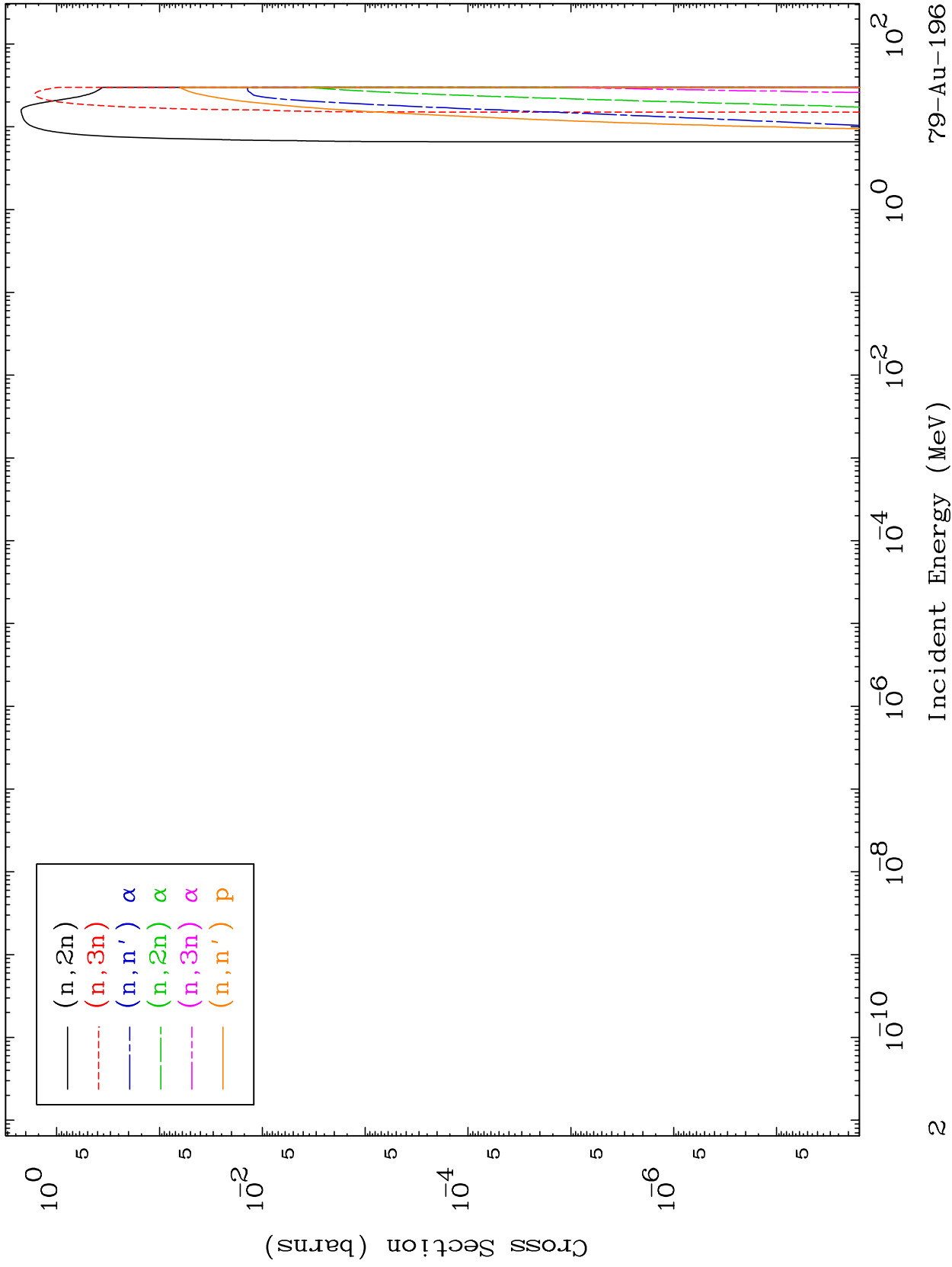
79-Au-196

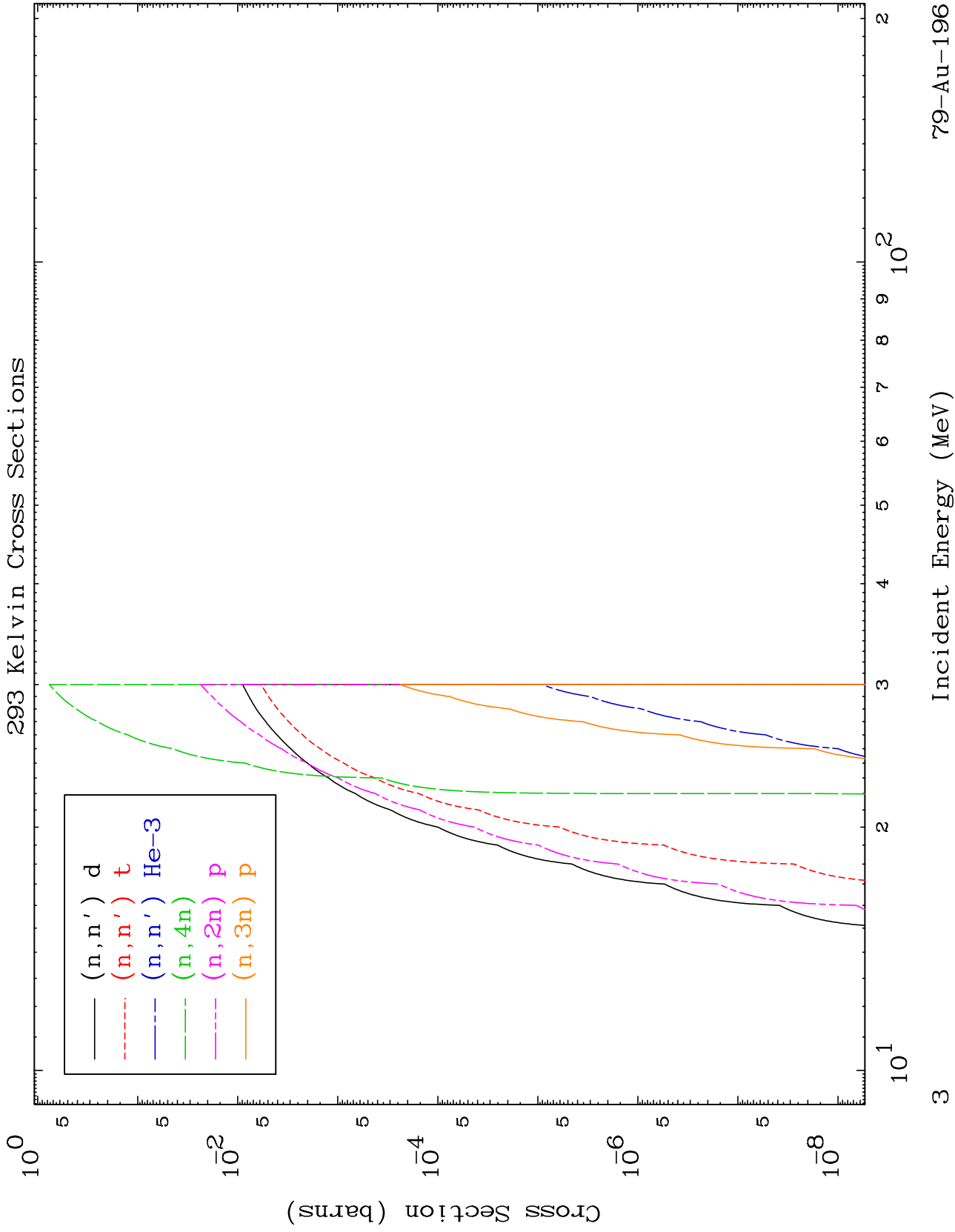


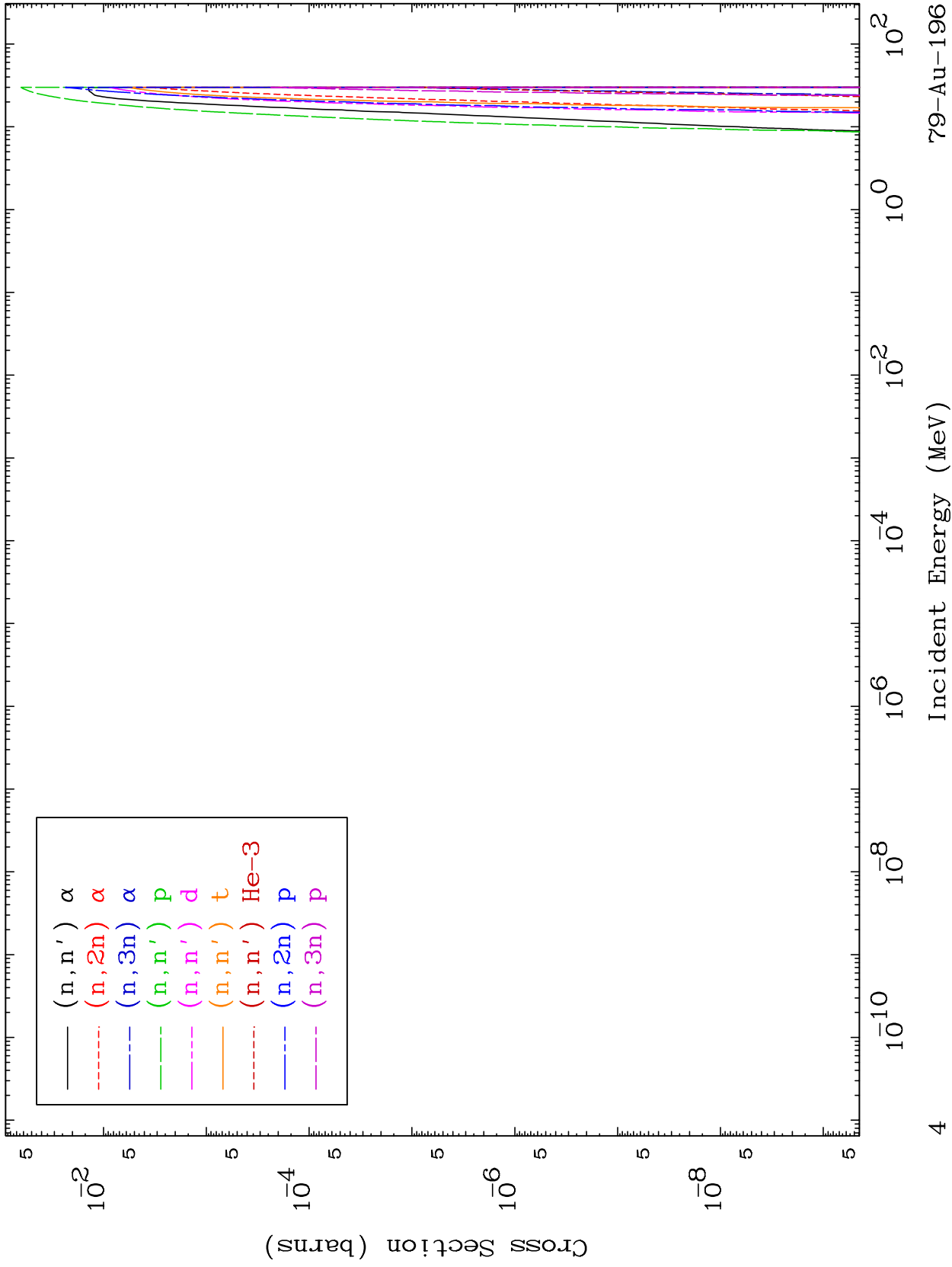
MAT 7923

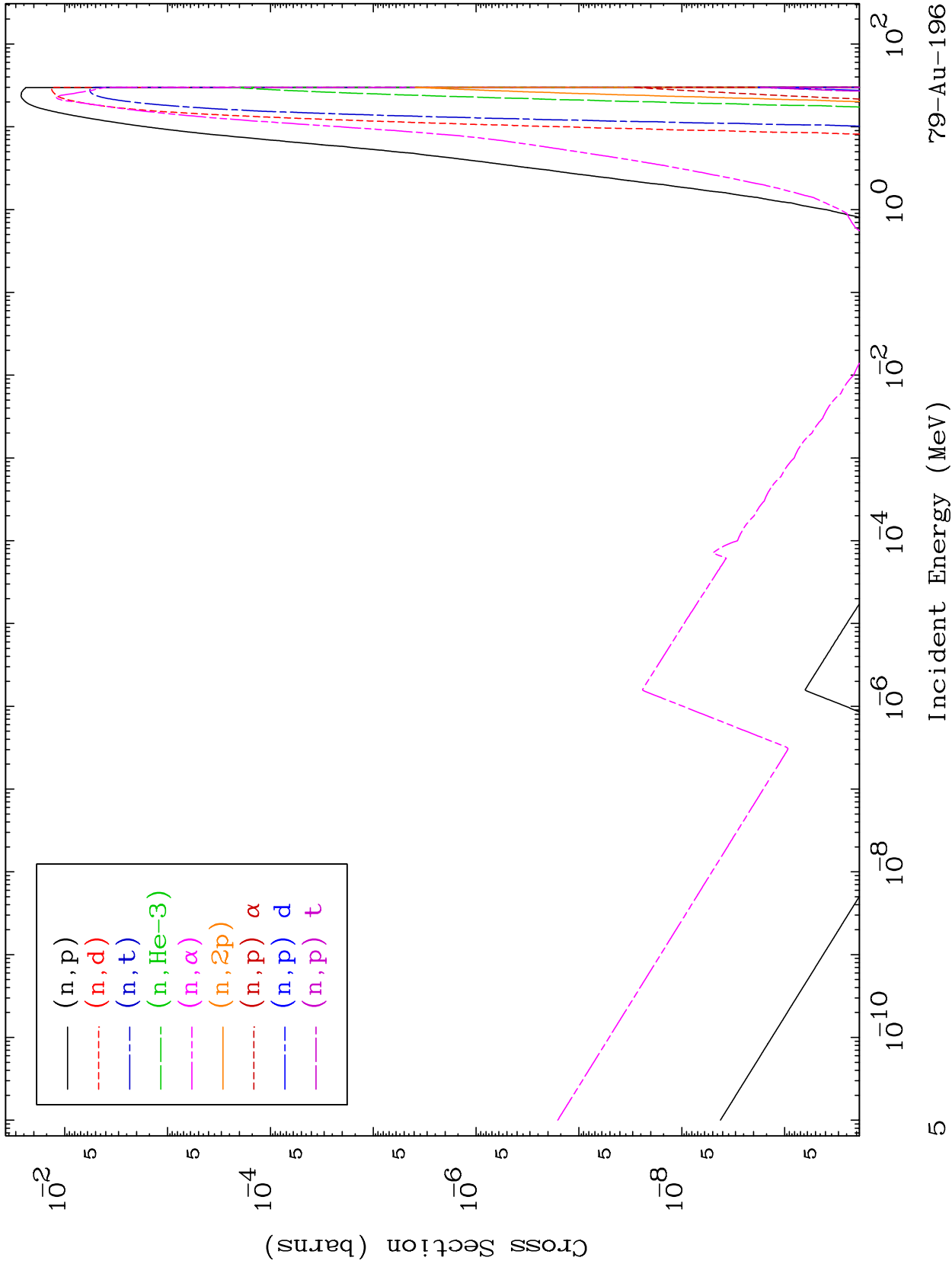
Neutron Production  
293 Kelvin Cross Sections

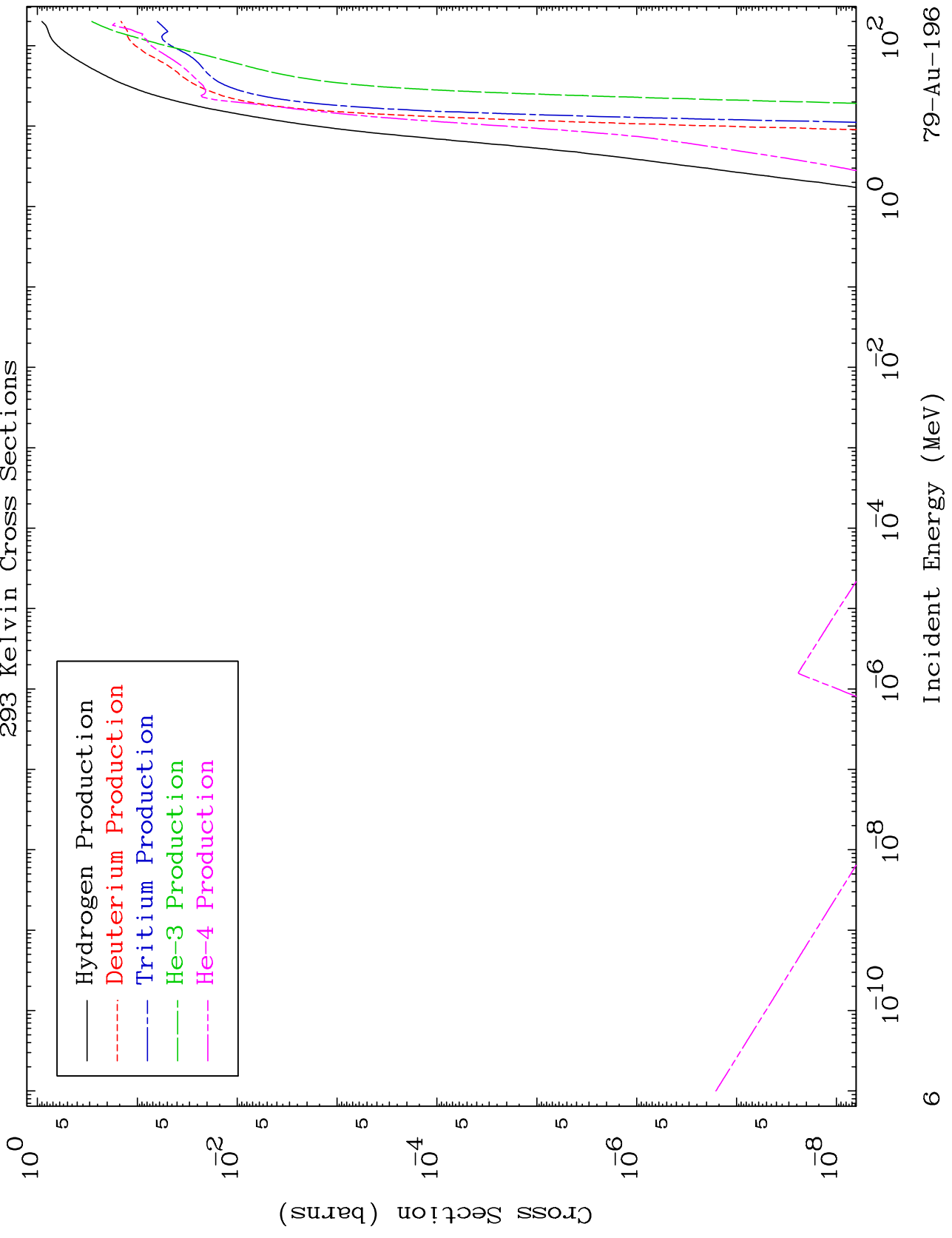
79-Au-196







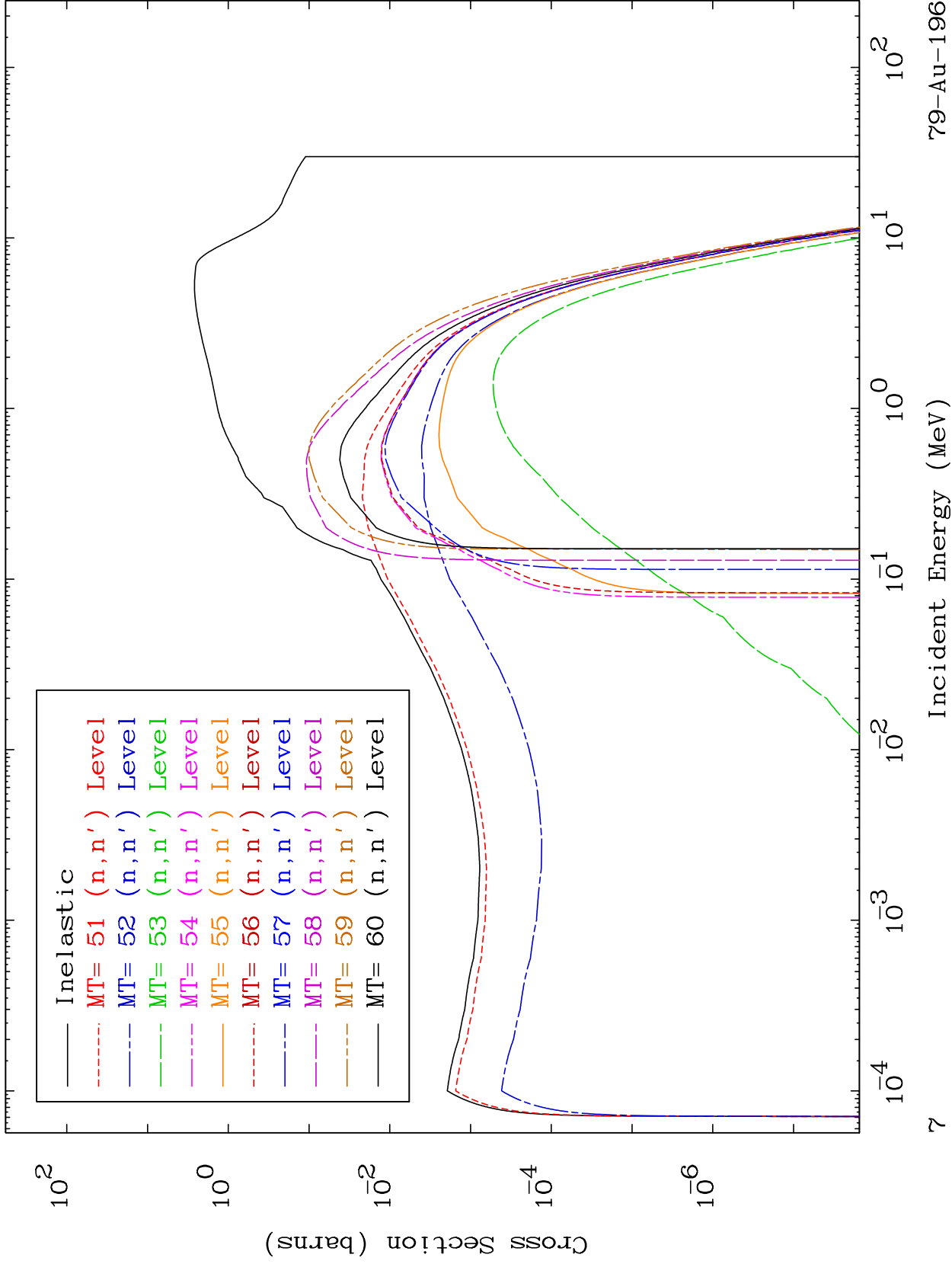




MAT 7923

(n,n') Level  
293 Kelvin Cross Sections

79-Au-196



79-Au-196

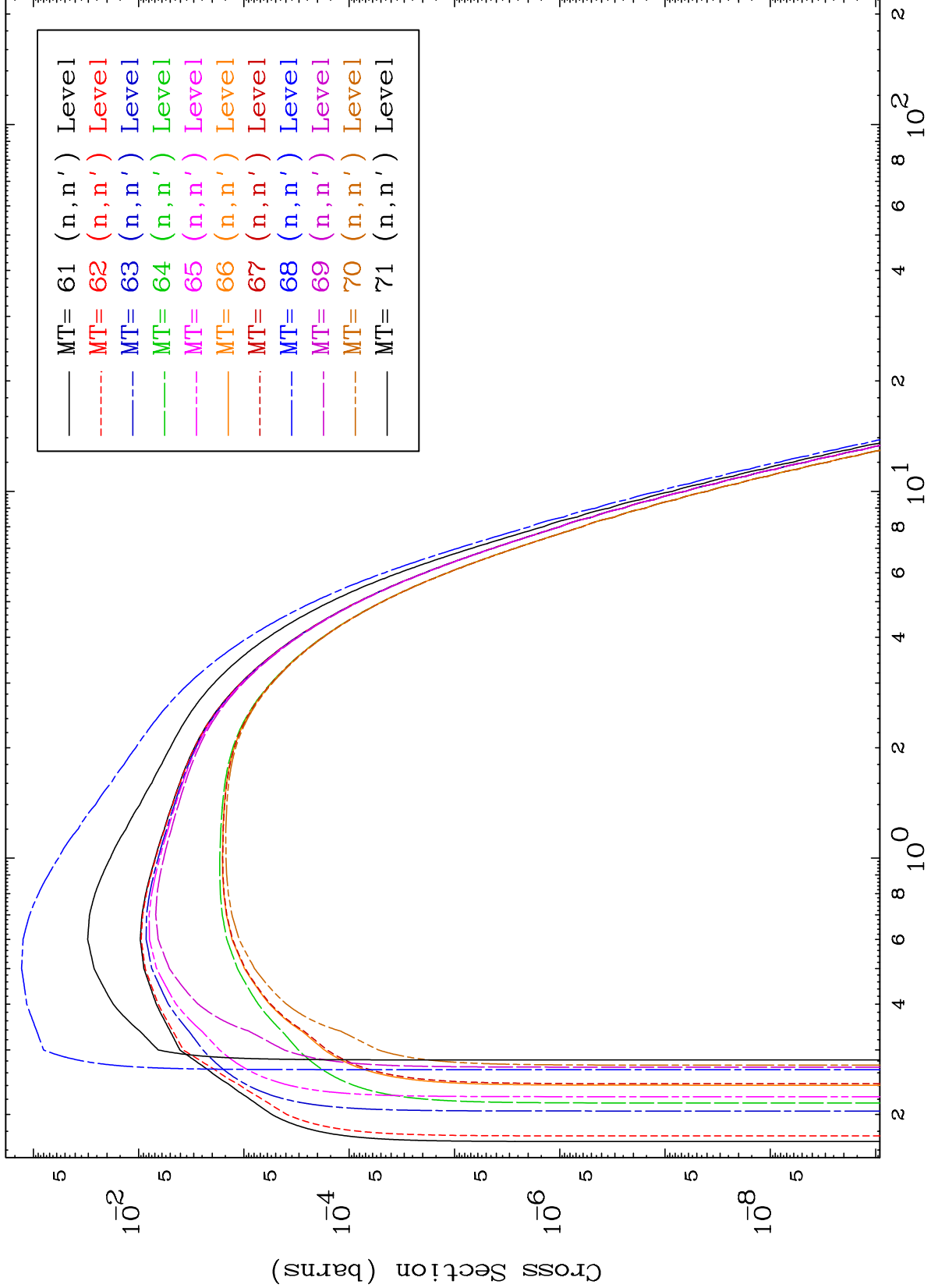


MAT 7923

(n,n') Level

79-Au-196

293 Kelvin Cross Sections

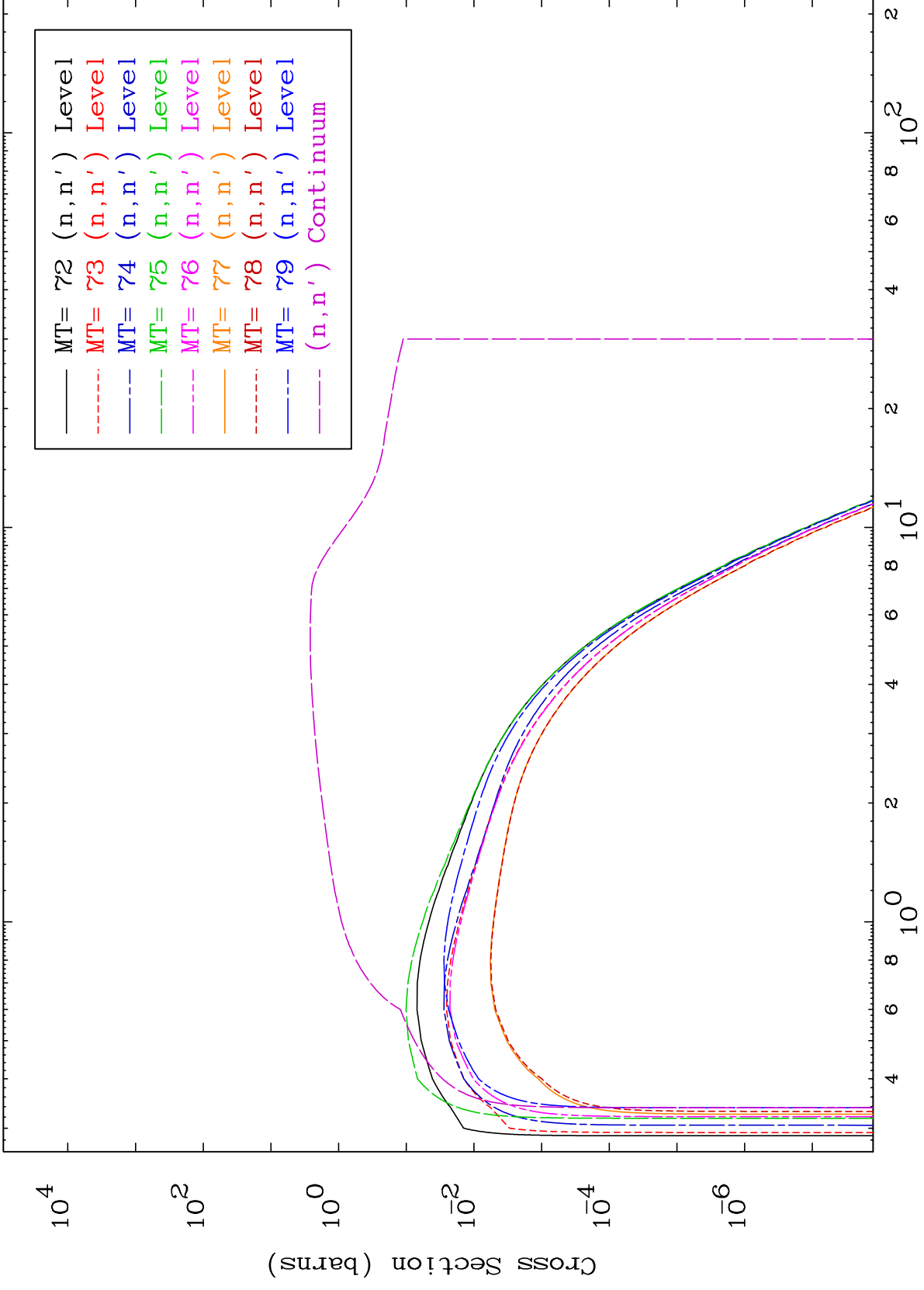


8

Incident Energy (MeV)

79-Au-196

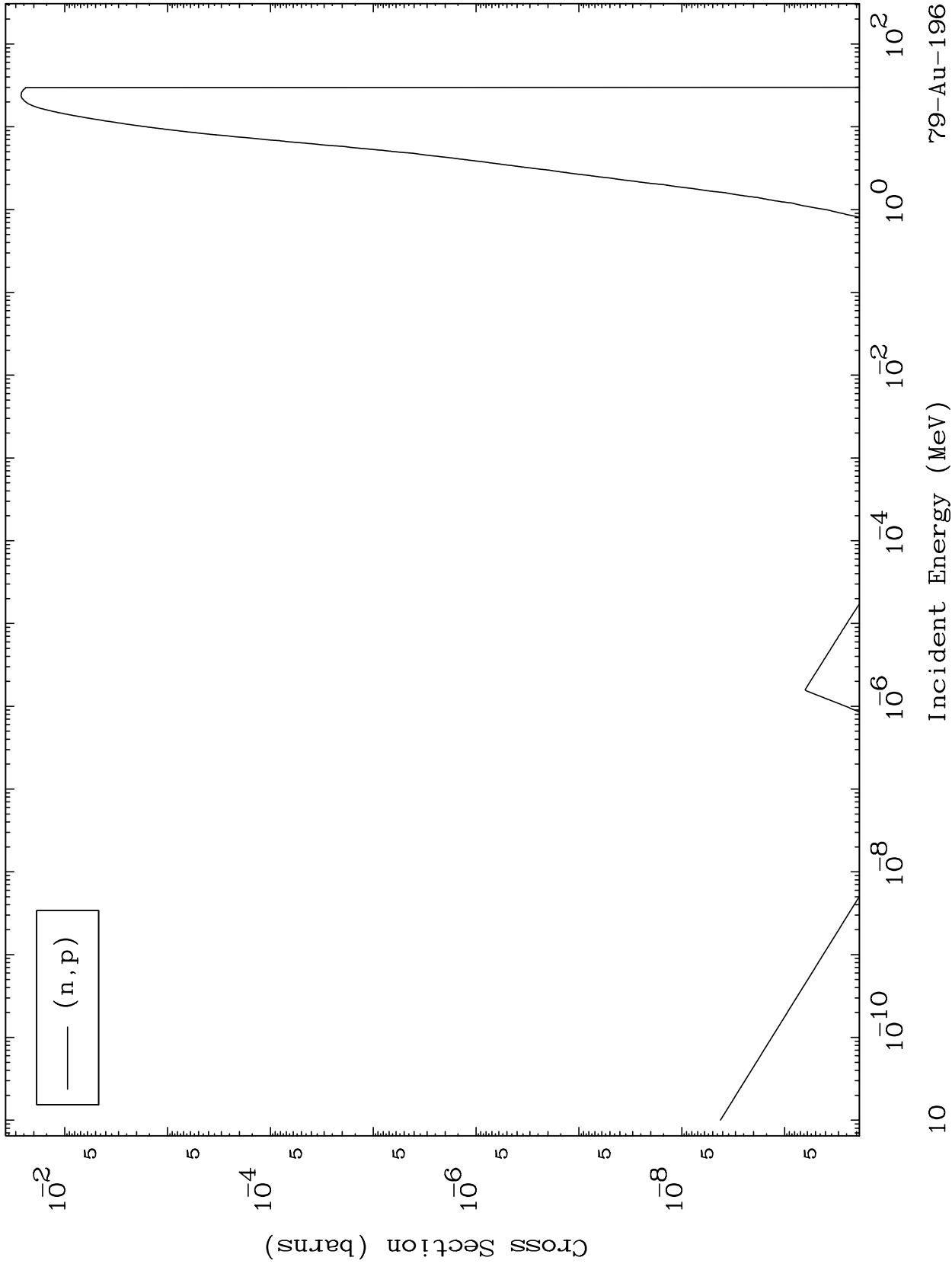
293 Kelvin Cross Sections



MAT 7923

(n,p) Levels  
293 Kelvin Cross Sections

79-Au-196



79-Au-196

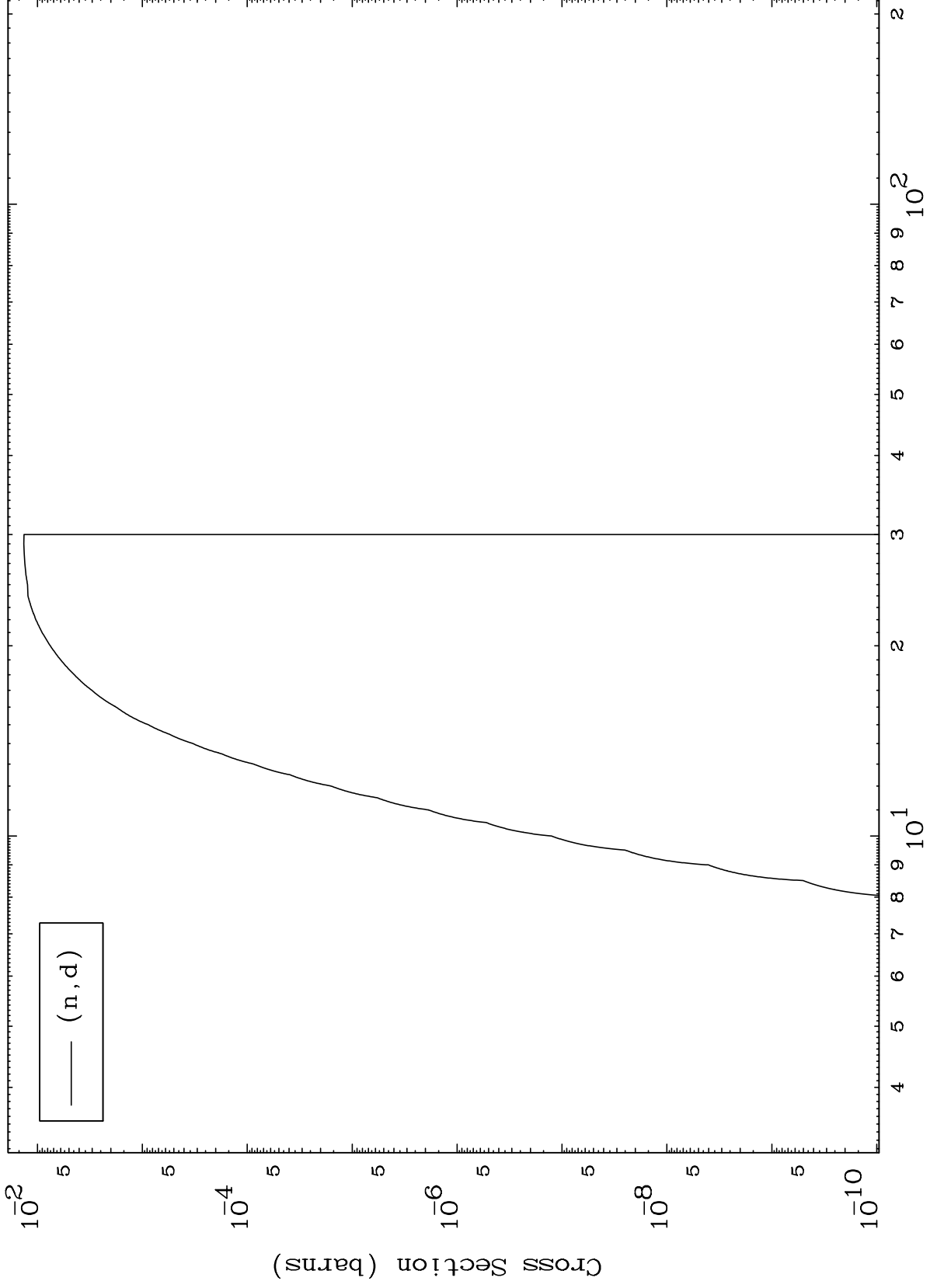
Incident Energy (MeV)

10

MAT 7923

(n,d) Levels  
293 Kelvin Cross Sections

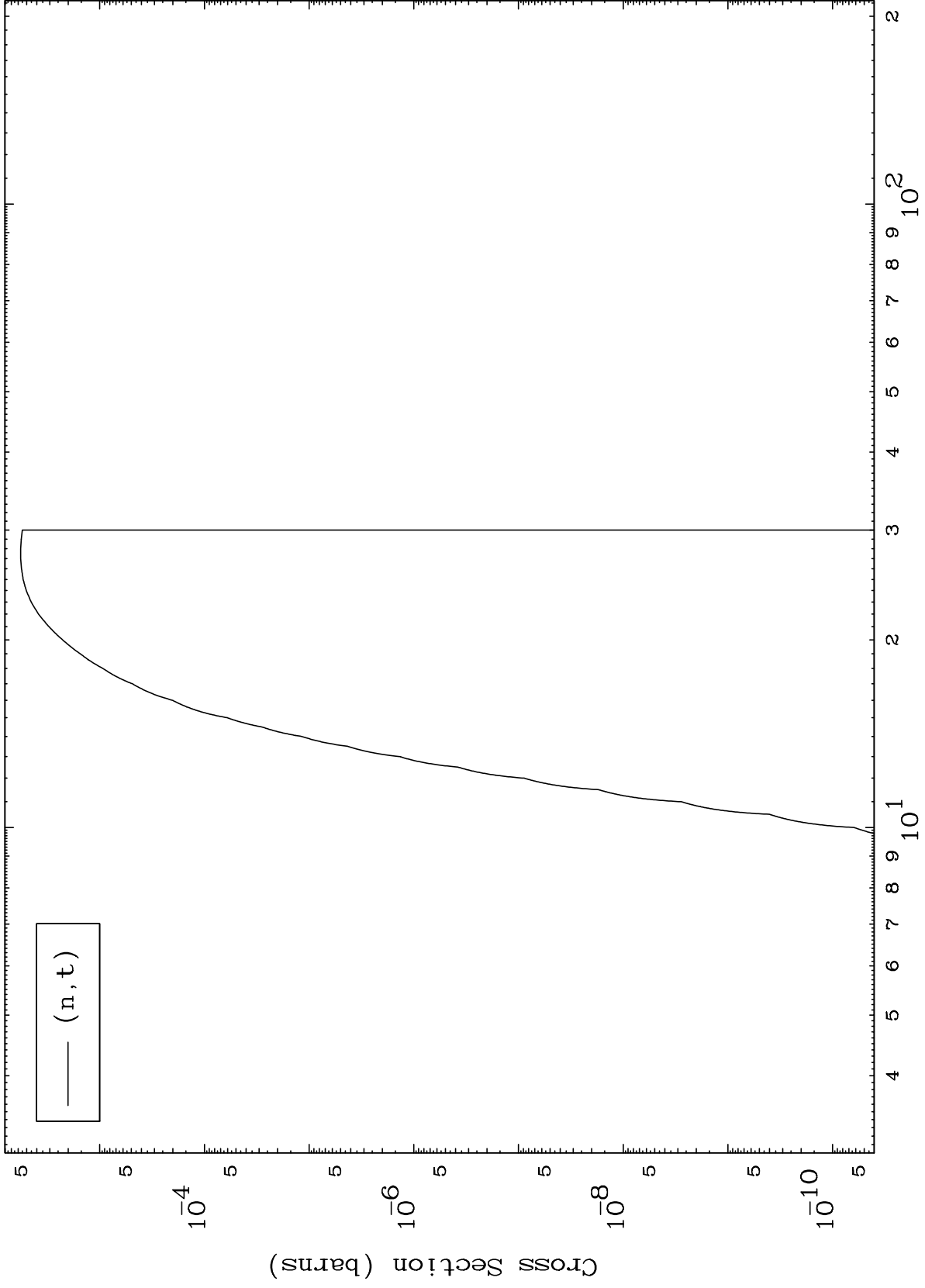
79-Au-196



MAT 7923

(n,t) Levels  
293 Kelvin Cross Sections

79-Au-196



12

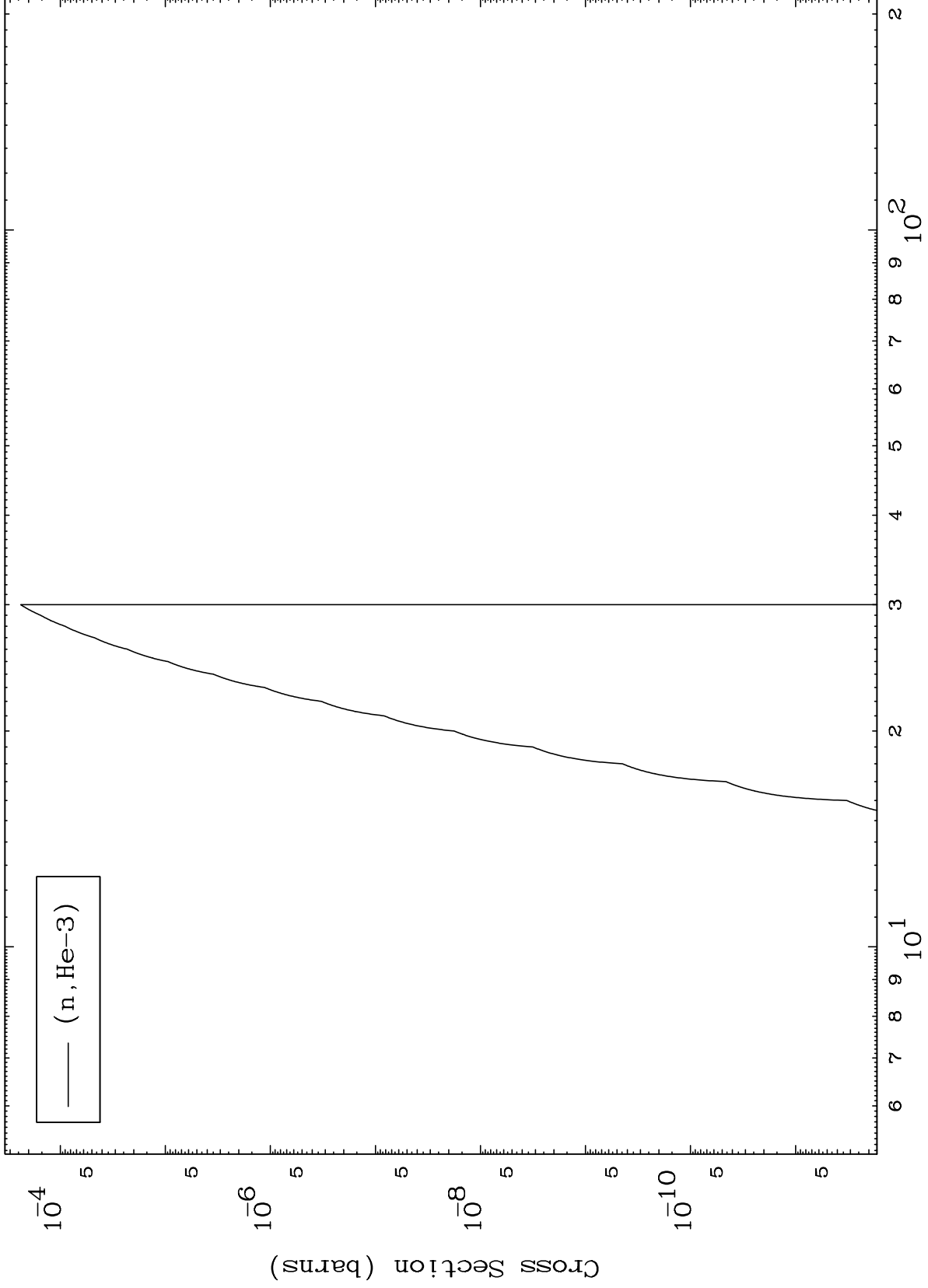
Incident Energy (MeV)

79-Au-196

MAT 7923

(n,He3) Levels  
293 Kelvin Cross Sections

79-Au-196



13

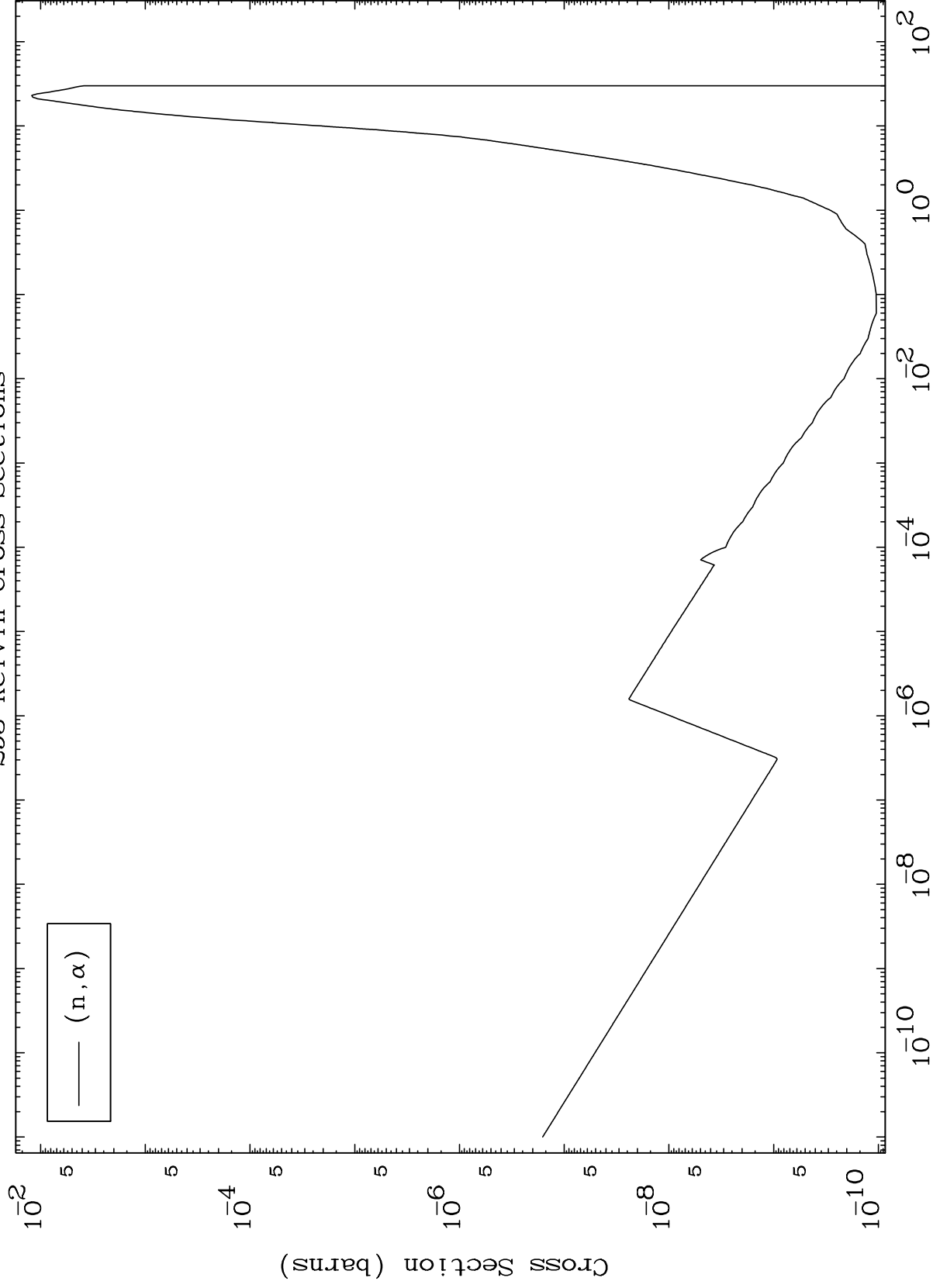
Incident Energy (MeV)

79-Au-196

MAT 7923

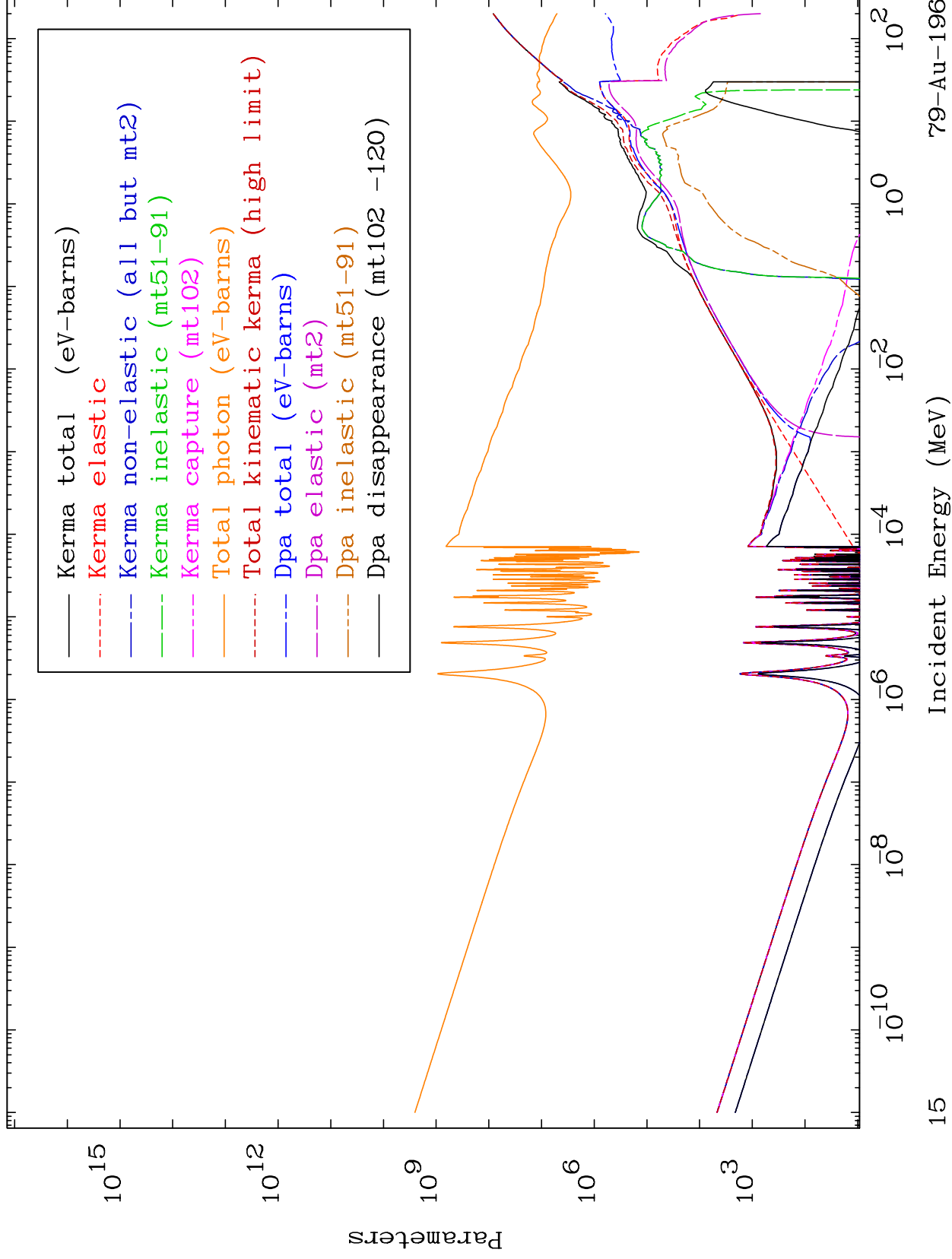
(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

79-Au-196



79-Au-196

Incident Energy (MeV)



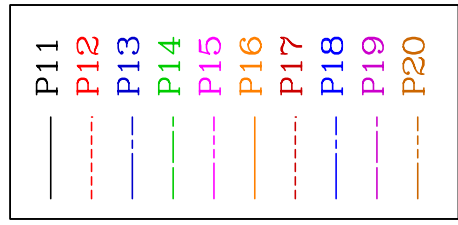




MAT 7923

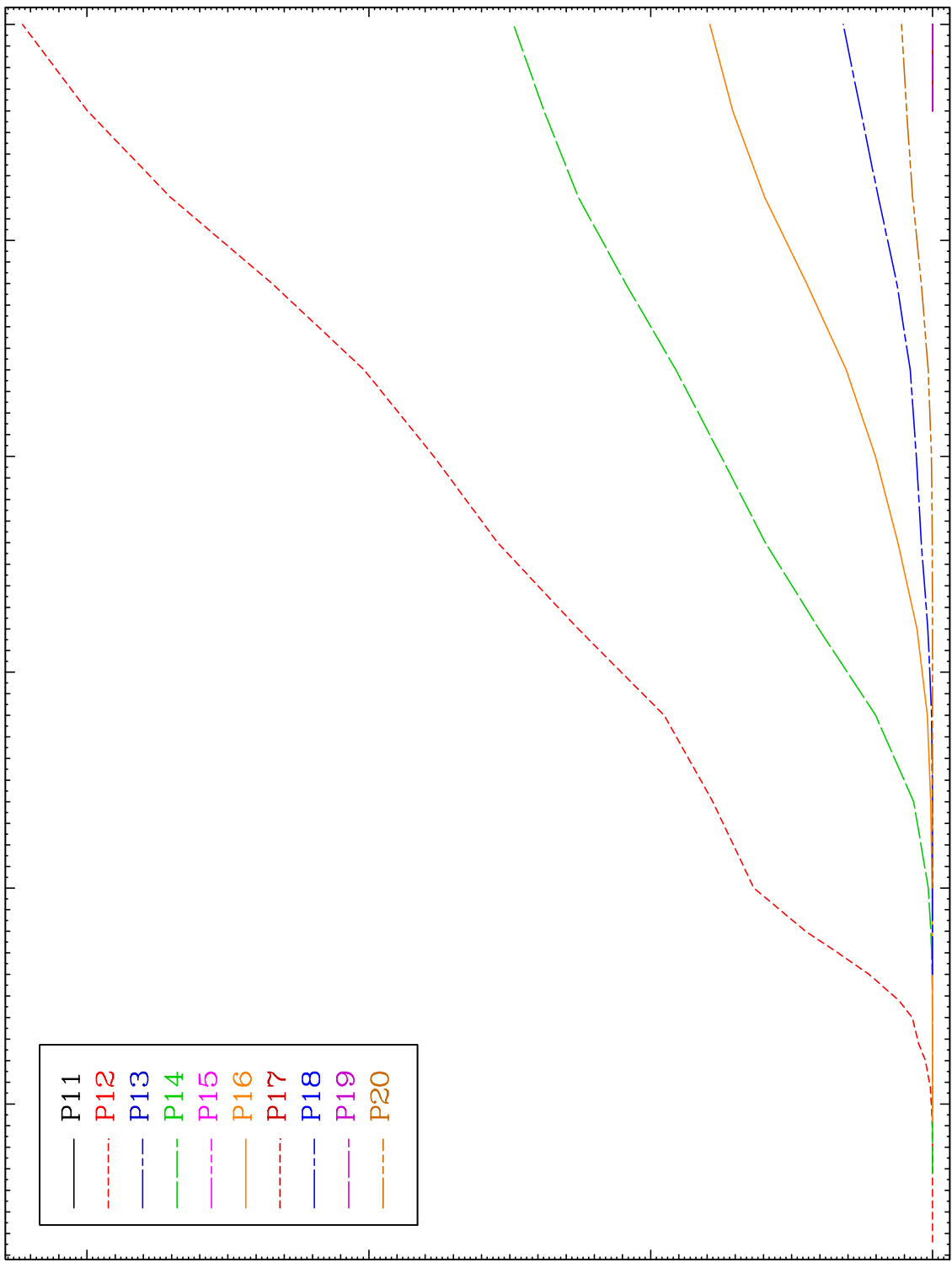
Elastic Legendre Coefficients

79-Au-196



$\times 10^{-4}$

Legendre (CM)



17

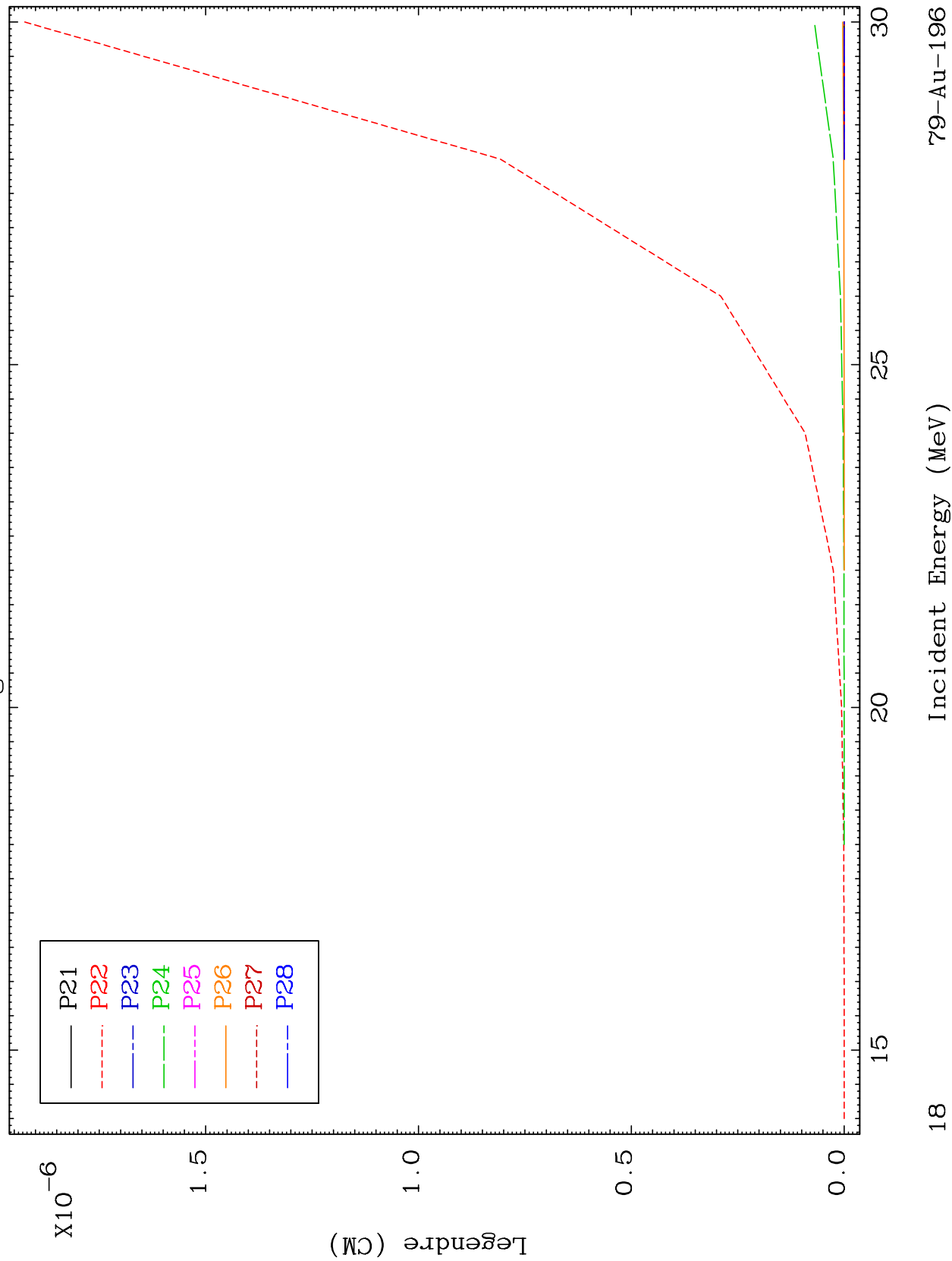
Incident Energy (MeV)

79-Au-196

MAT 7923

Elastic Legendre Coefficients

79-Au-196



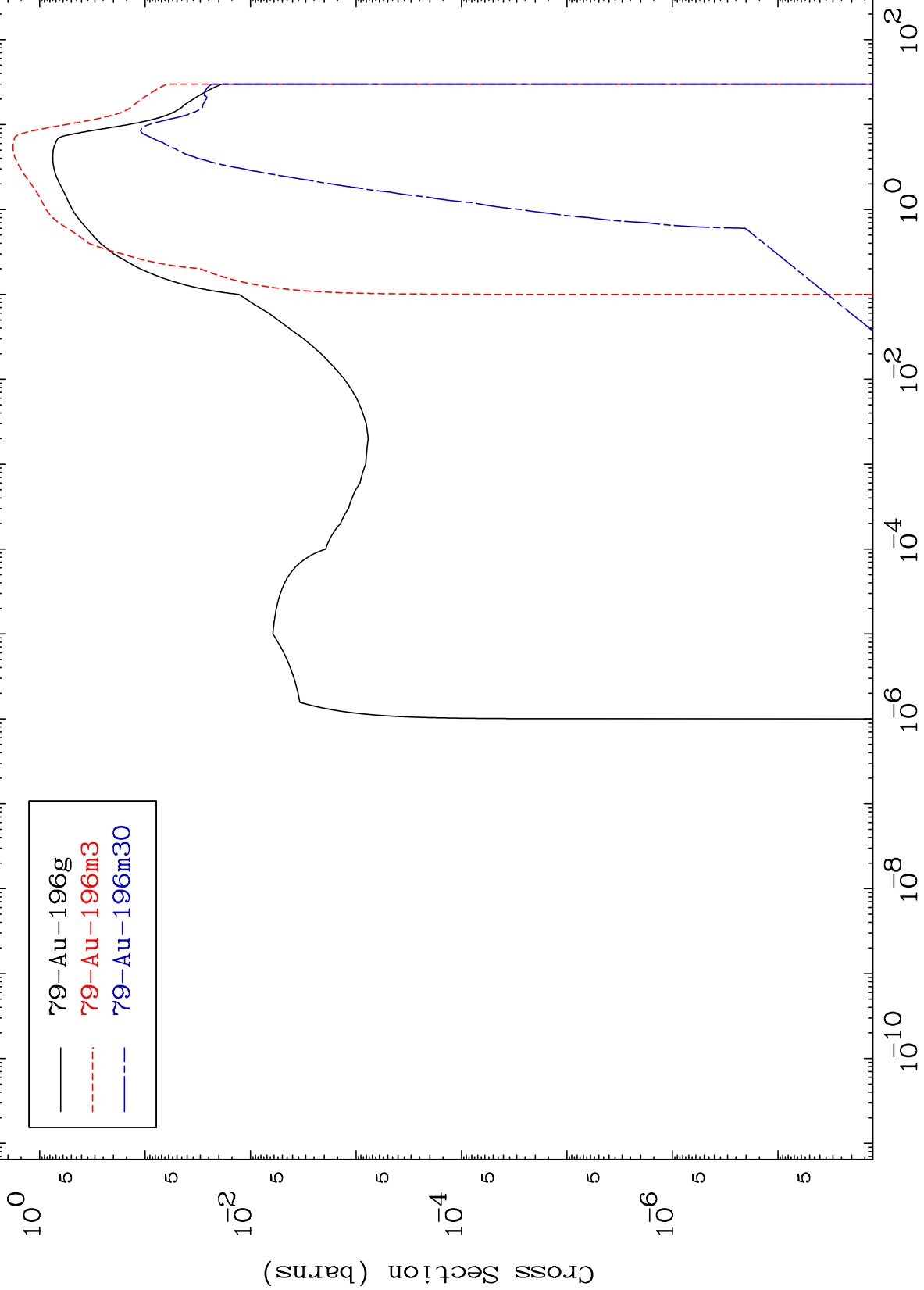
18

79-Au-196

MAT 7923

### Inelastic Radionuclide Production Cross Section

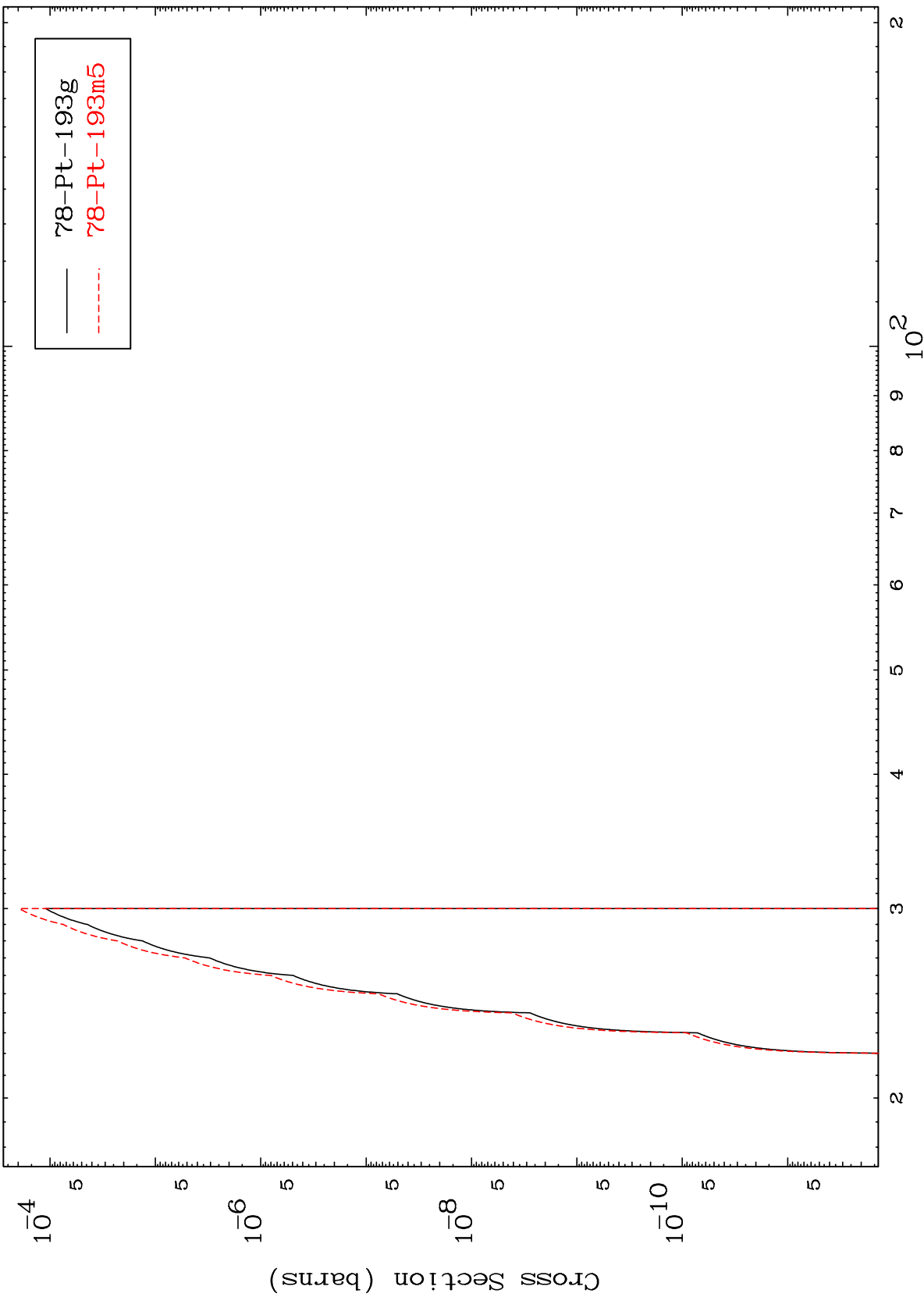
79-Au-196



79-Au-196g  
79-Au-196m3  
79-Au-196m30

79-Au-196

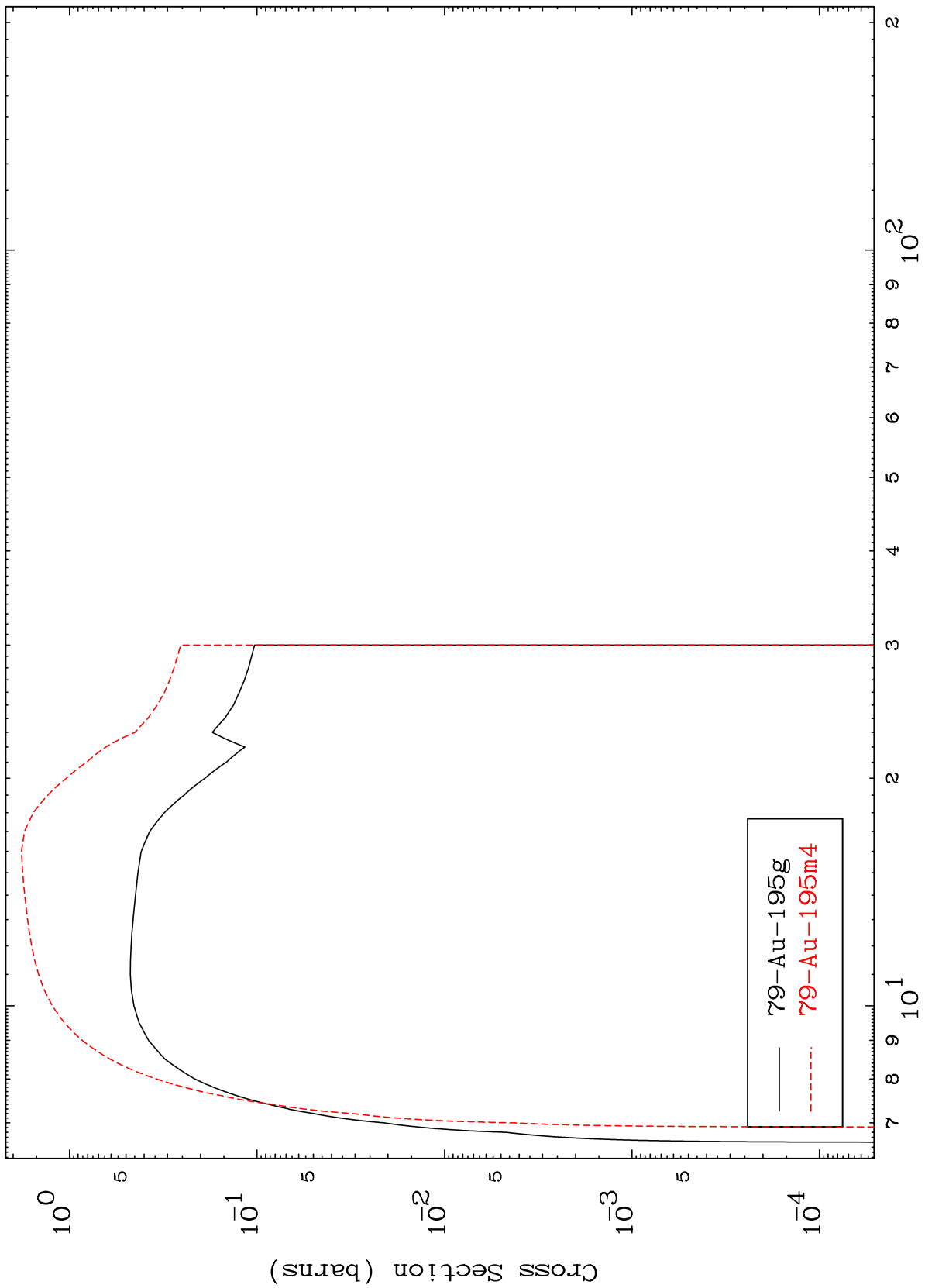
Radionuclide Production Cross Section



MAT 7923

79-Au-196

(n,2n)  
Radionuclide Production Cross Section

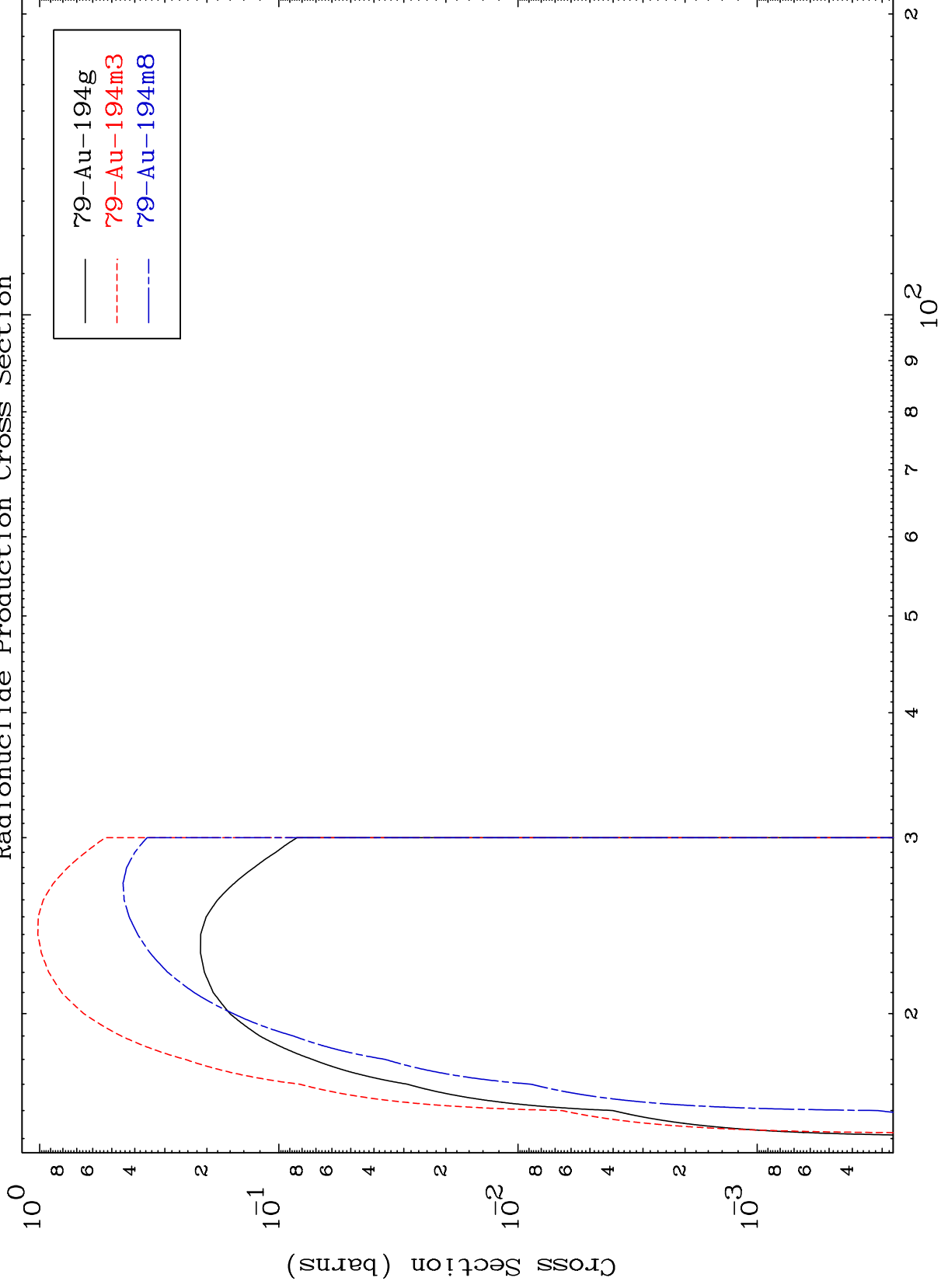


MAT 7923

(n,3n)

79-Au-196

Radionuclide Production Cross Section



22

Incident Energy (MeV)

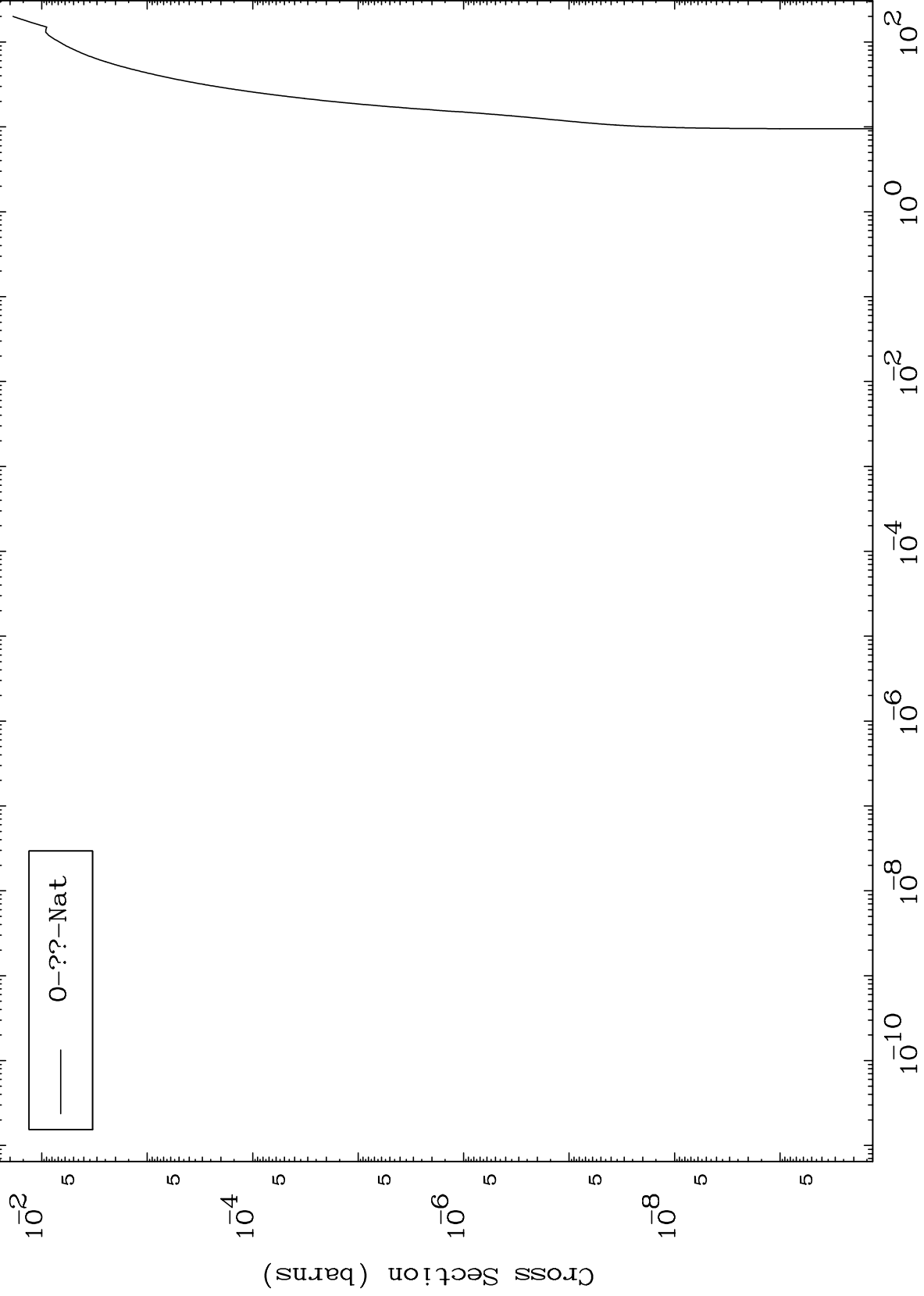
79-Au-196

MAT 7923

Fission

<sup>79</sup>Au-196

Radionuclide Production Cross Section



23

<sup>79</sup>Au-196

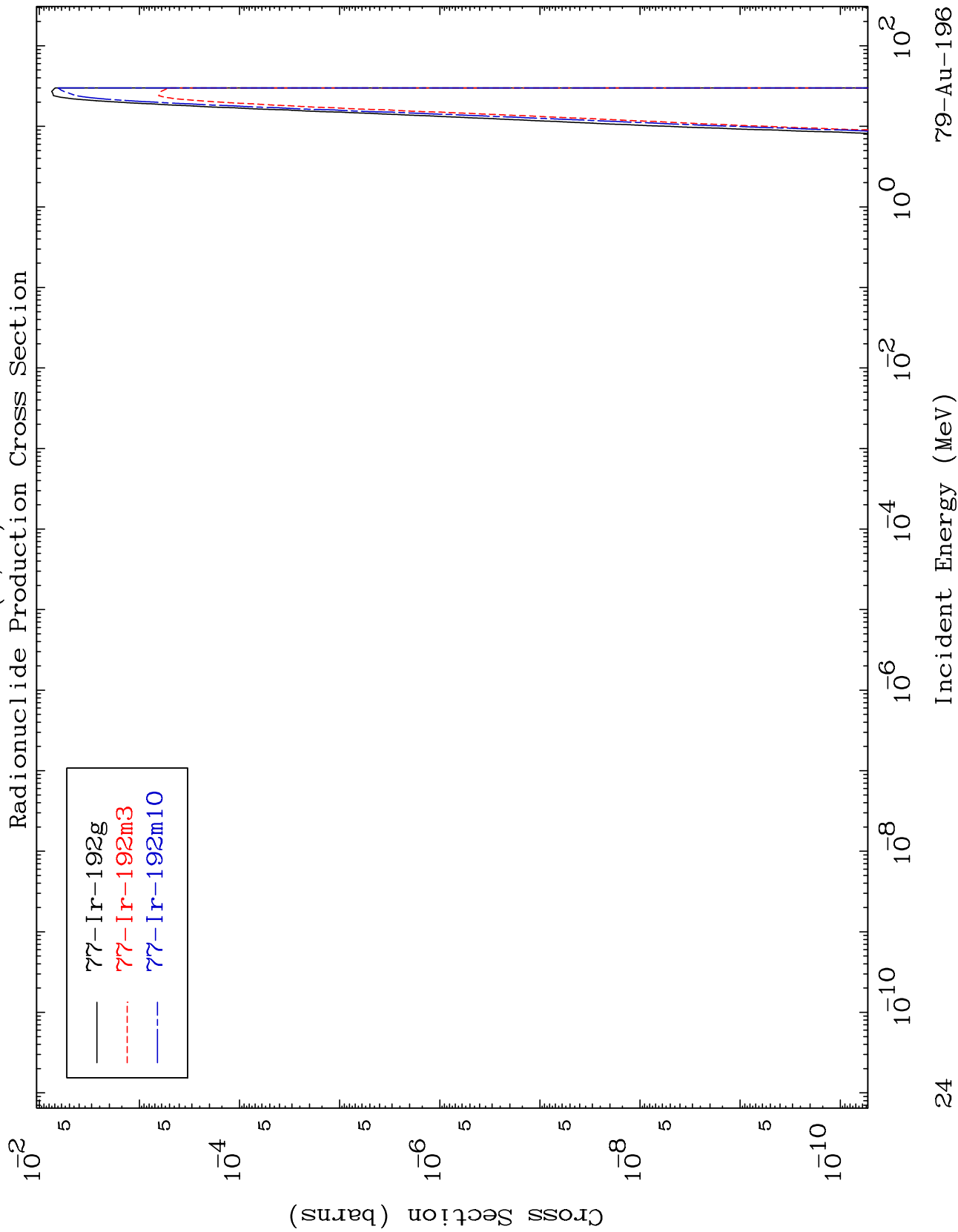


MAT 7923

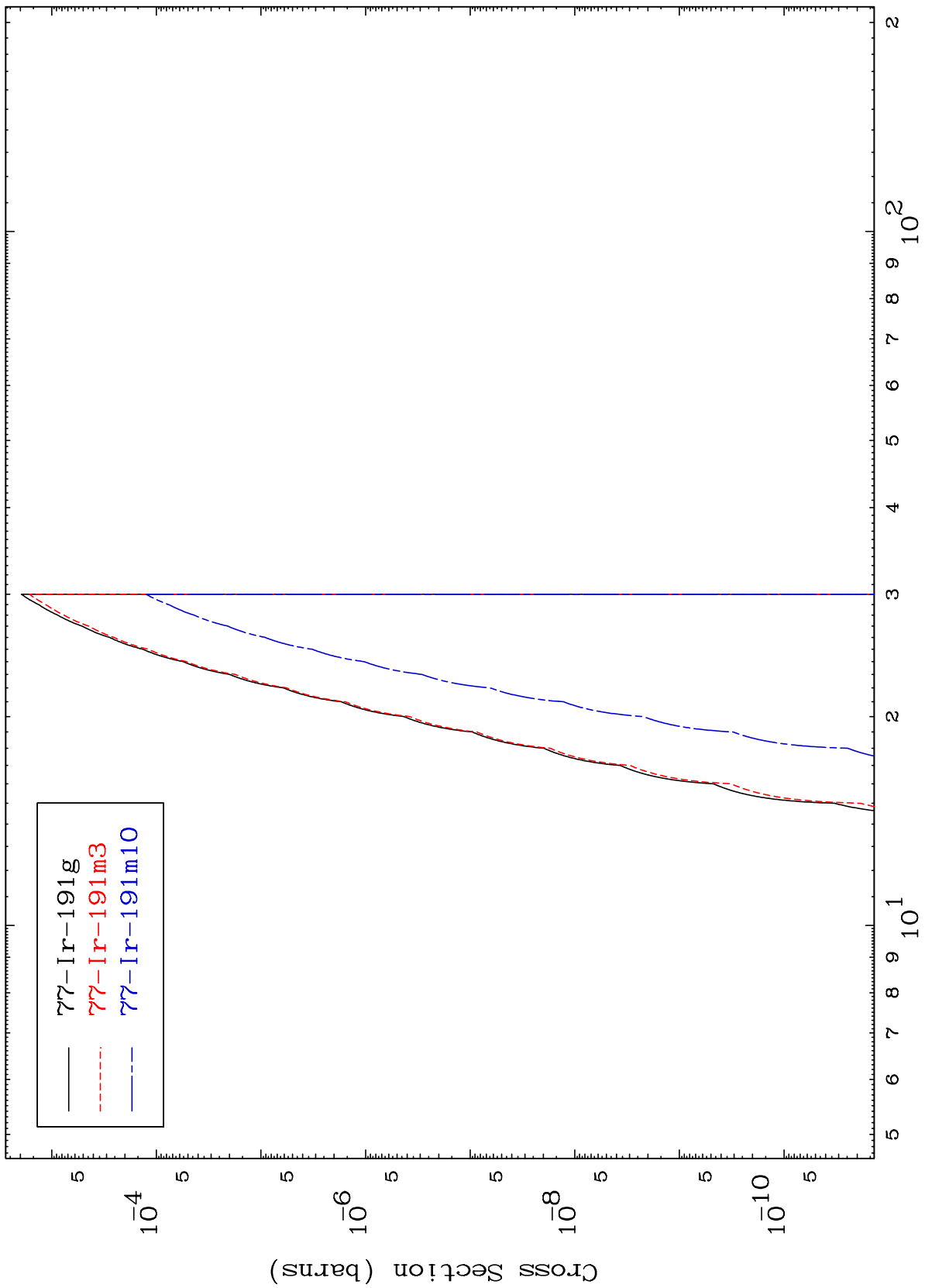
$(n, n') \alpha$

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

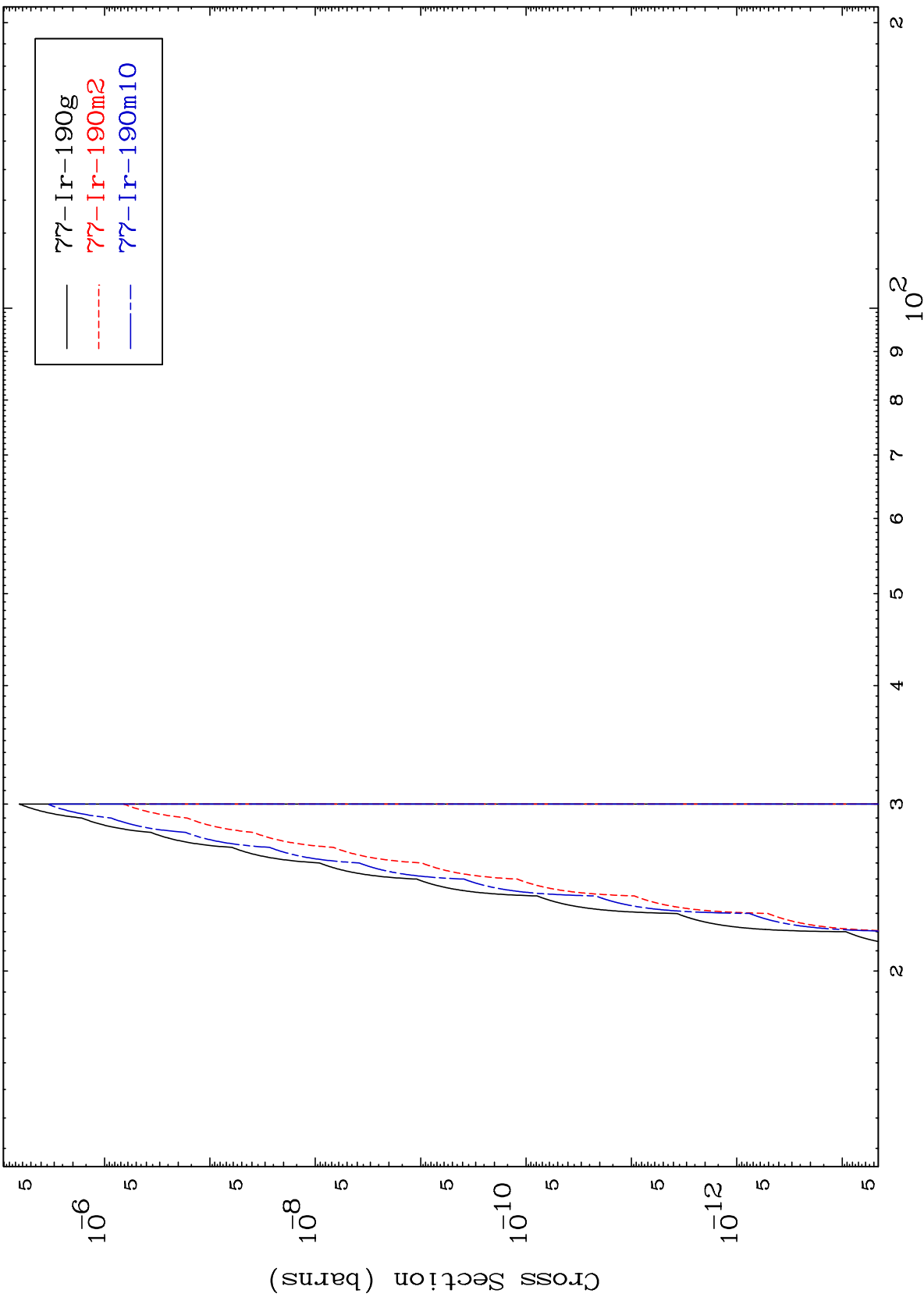
Radionuclide Production Cross Section



(n,2n)  $\alpha$   
Radionuclide Production Cross Section



Radionuclide Production Cross Section

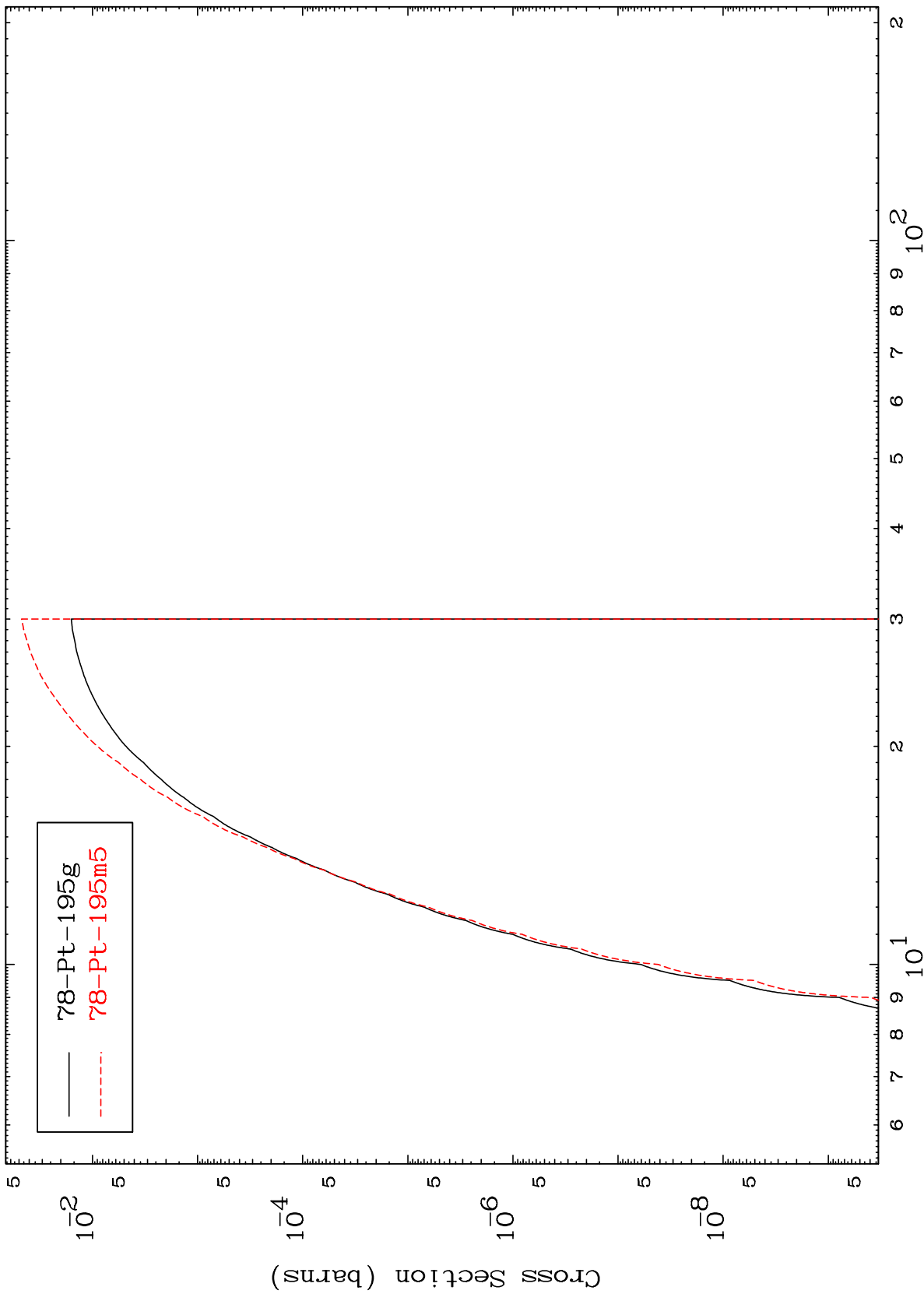


MAT 7923

(n,n') p

79-Au-196

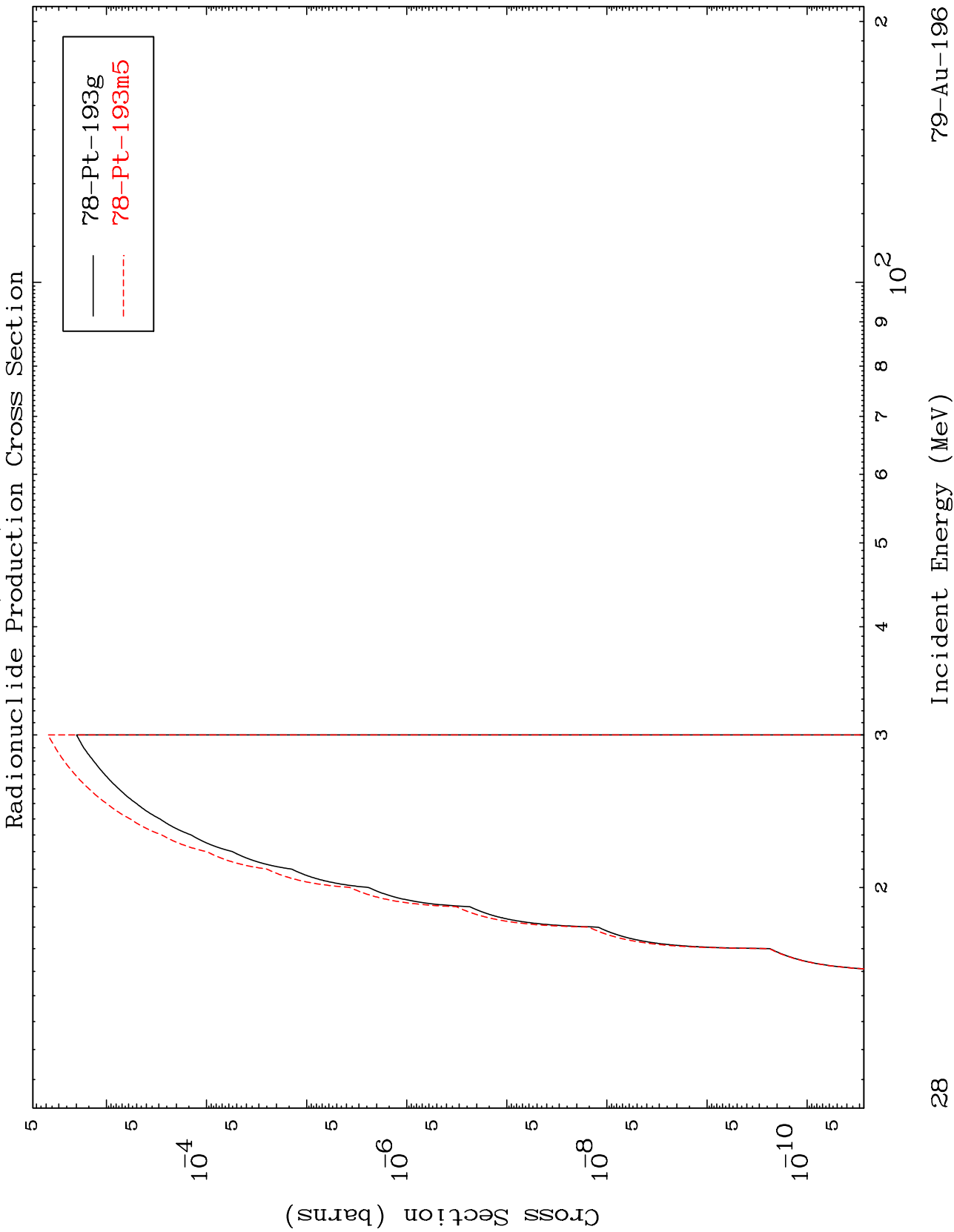
Radionuclide Production Cross Section



27

Incident Energy (MeV)

79-Au-196

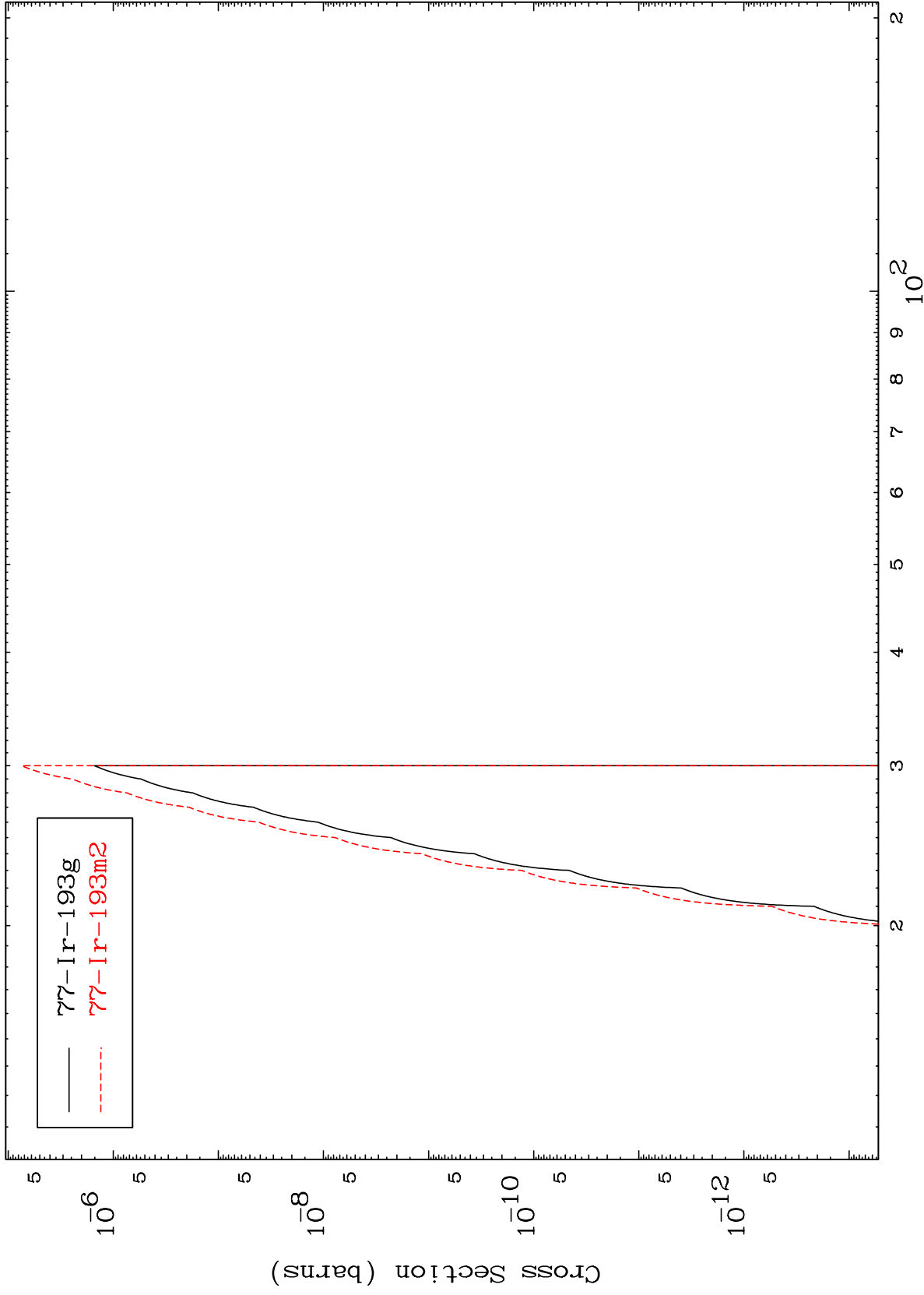


MAT 7923

(n,n') He-3

79-Au-196

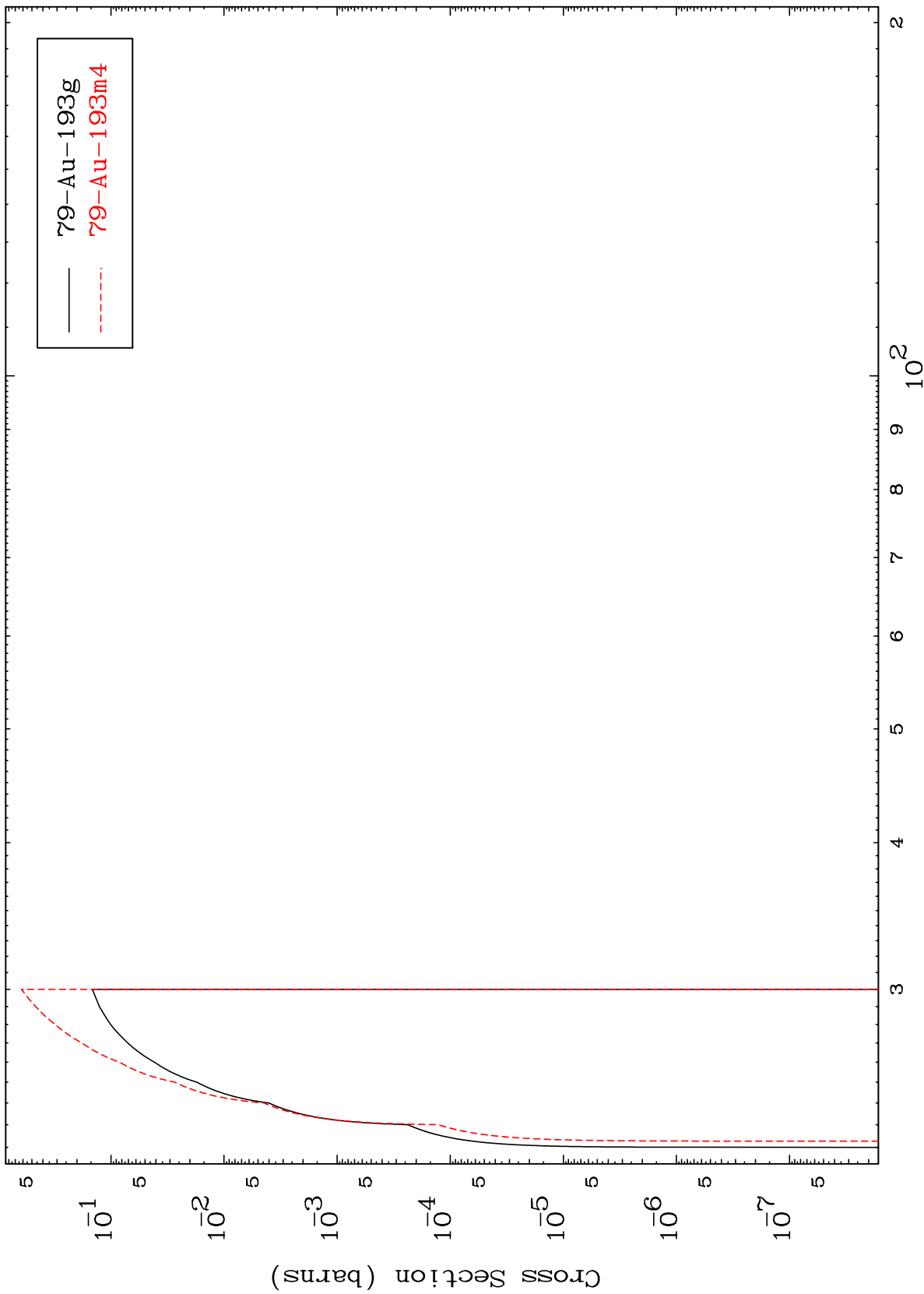
Radionuclide Production Cross Section



MAT 7923

79-Au-196

(n,4n)  
Radionuclide Production Cross Section

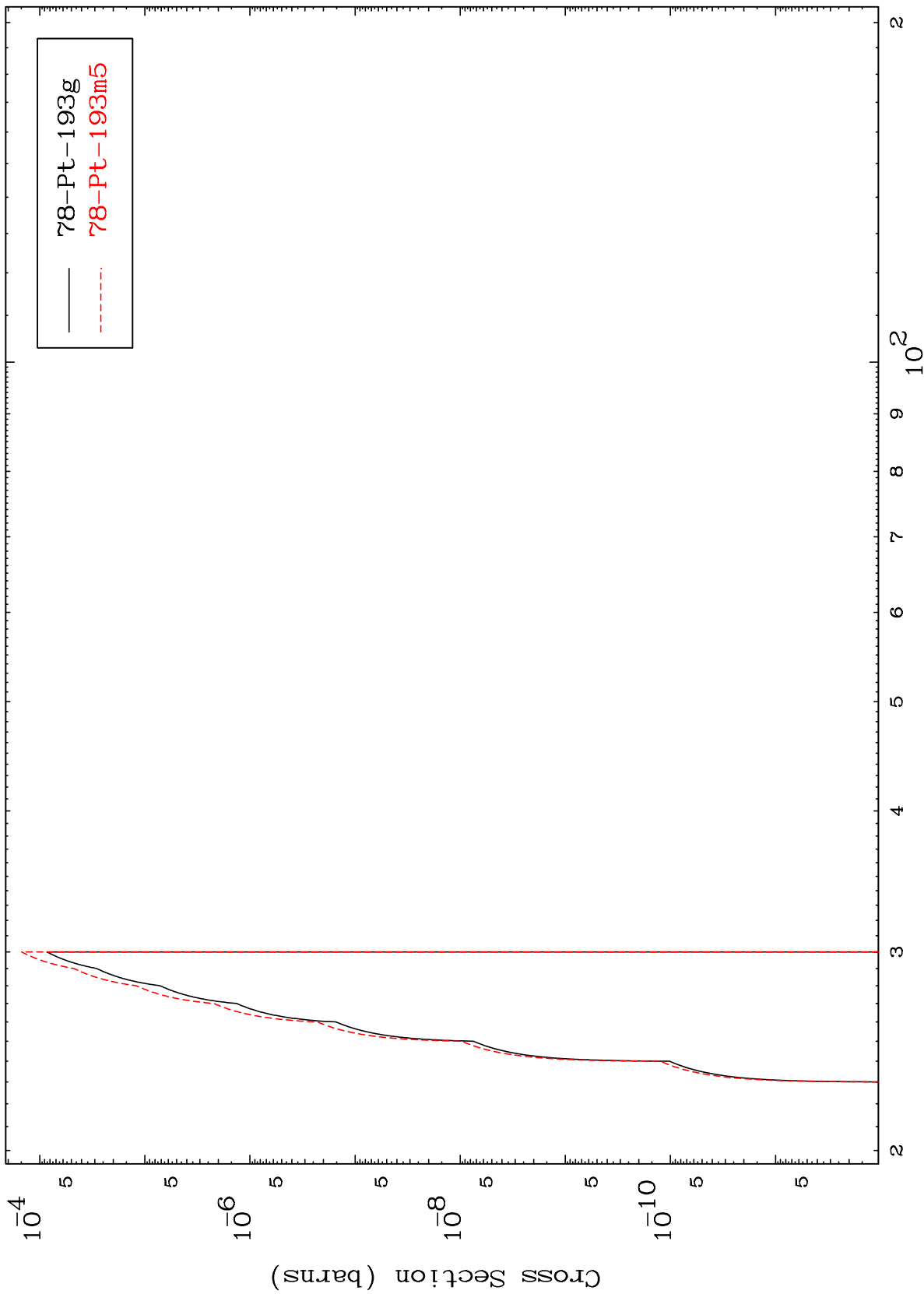


79-Au-196

Incident Energy (MeV)

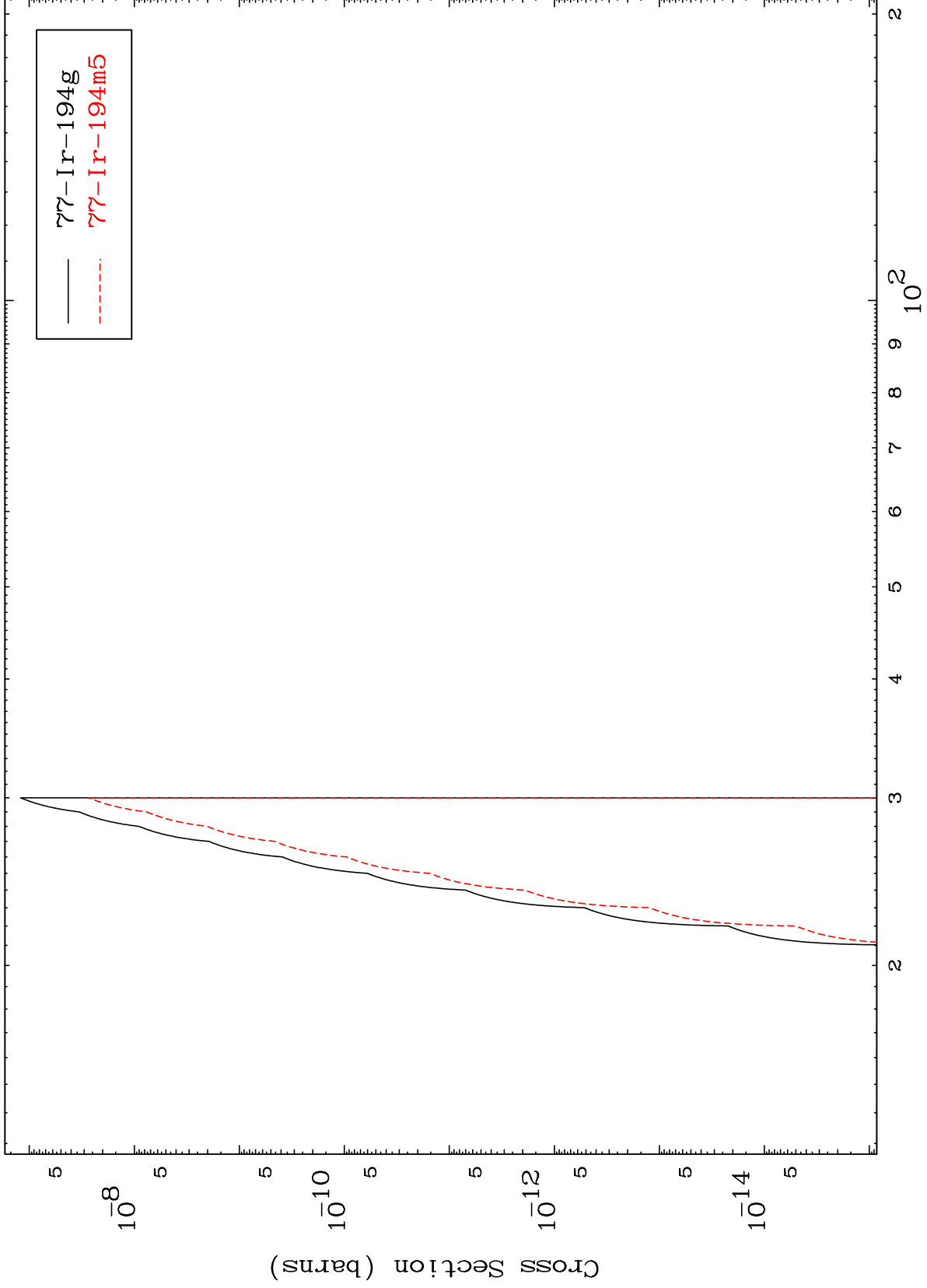
30

Radionuclide Production Cross Section





Radionuclide Production Cross Section

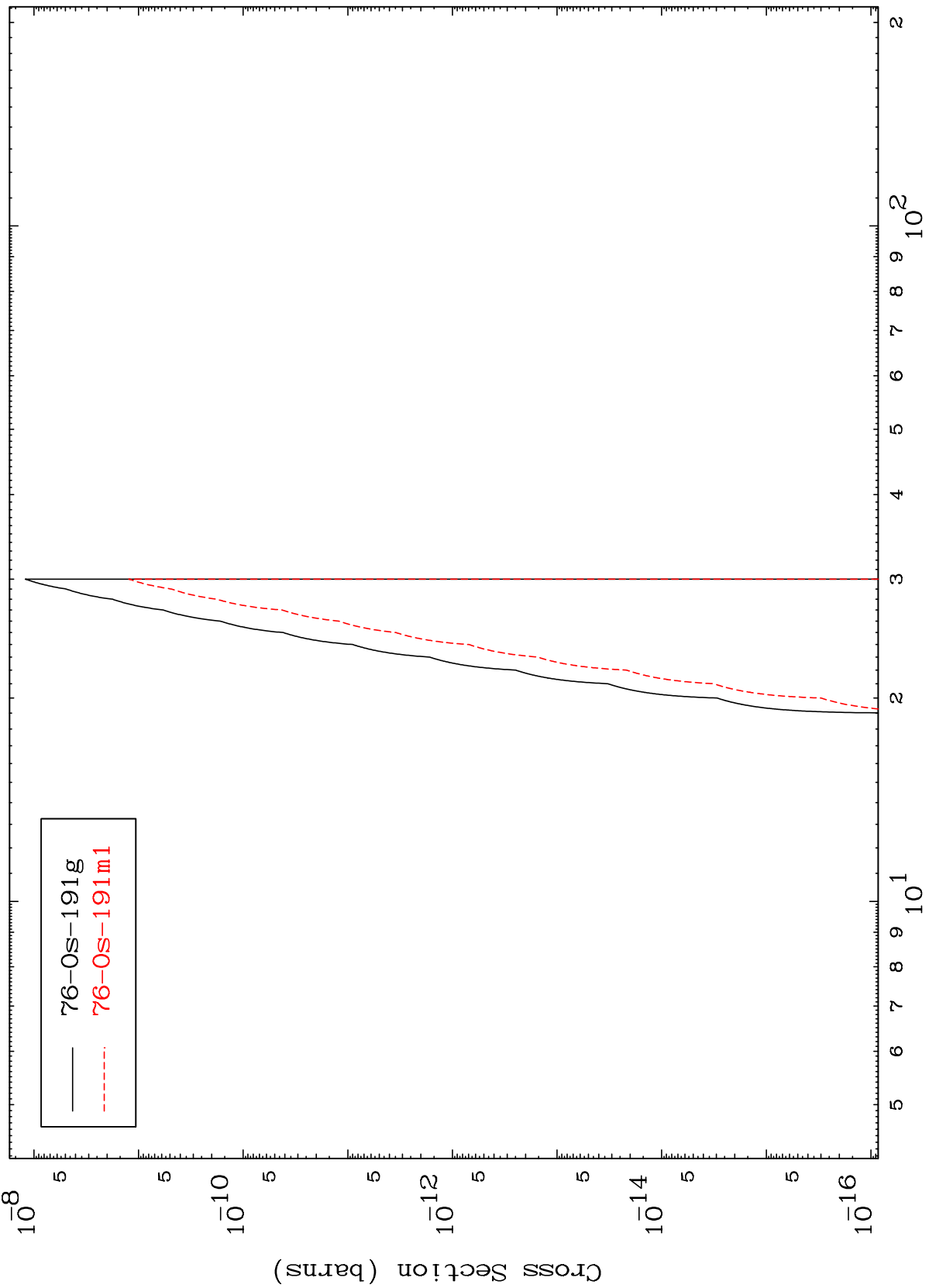


MAT 7923

(n,n') p  $\alpha$

79-Au-196

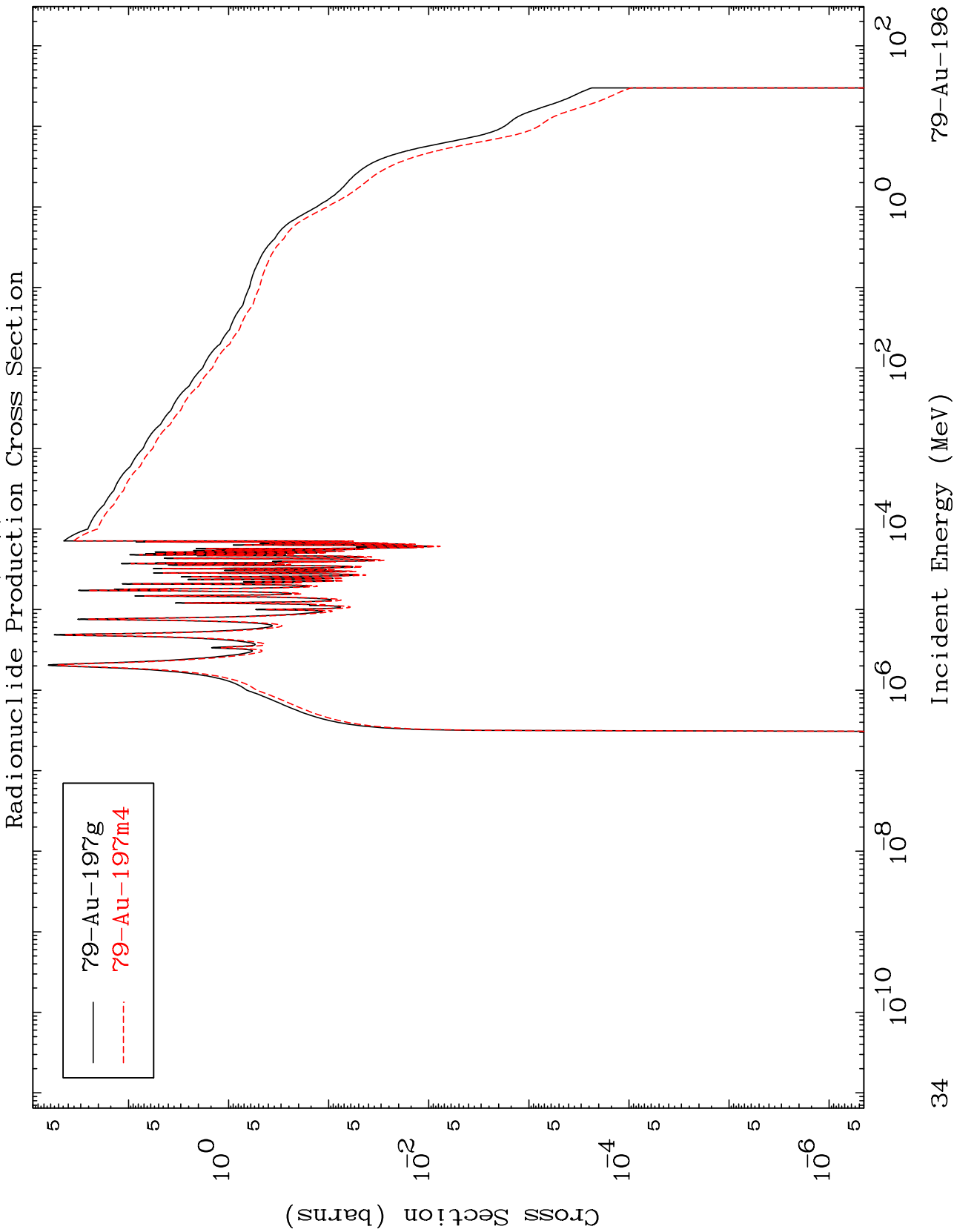
Radionuclide Production Cross Section



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

MAT 7923

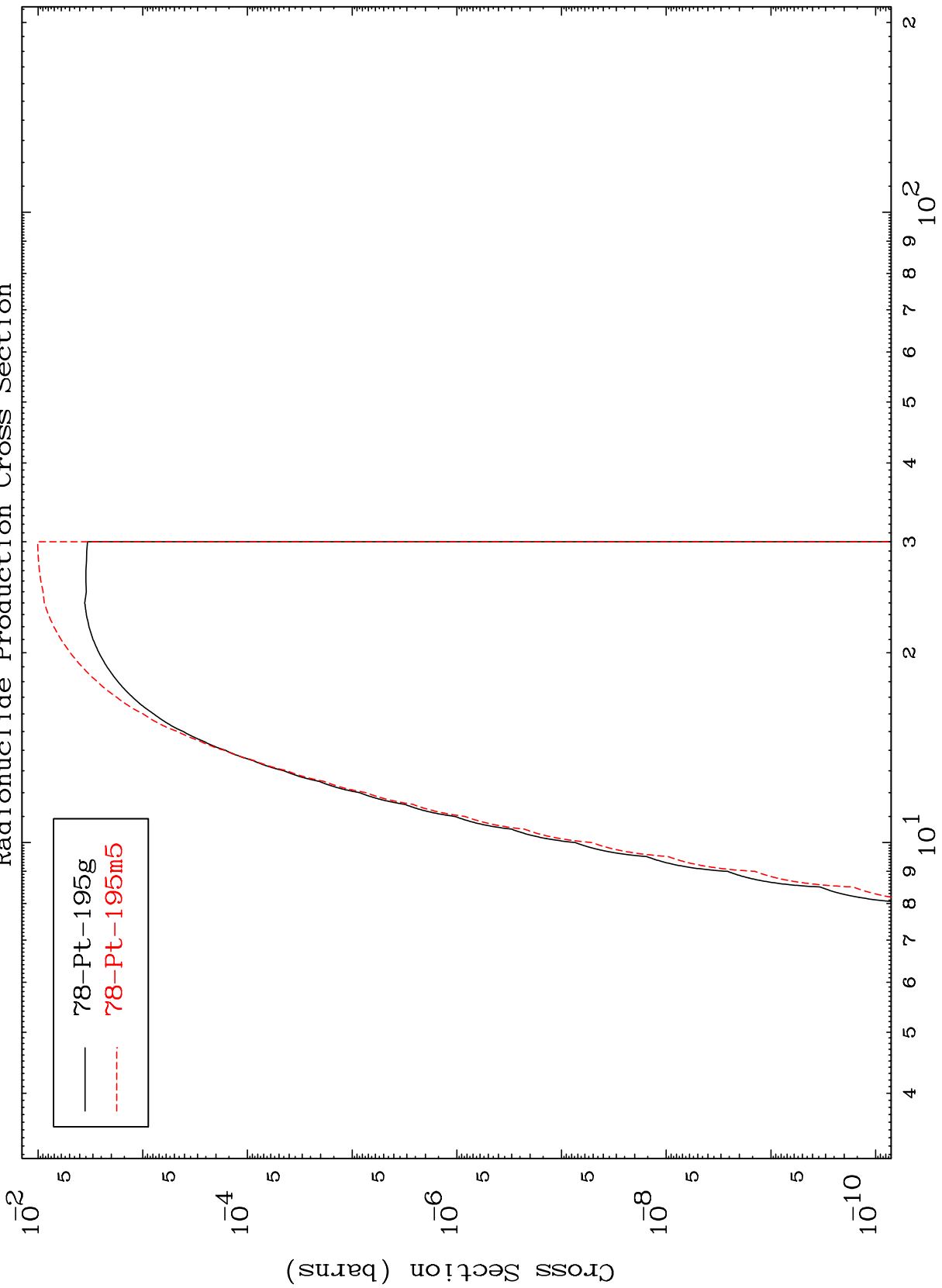
<sup>79</sup>Au-196



MAT 7923

79-Au-196

Radionuclide Production Cross Section (n,d)



35

Incident Energy (MeV)

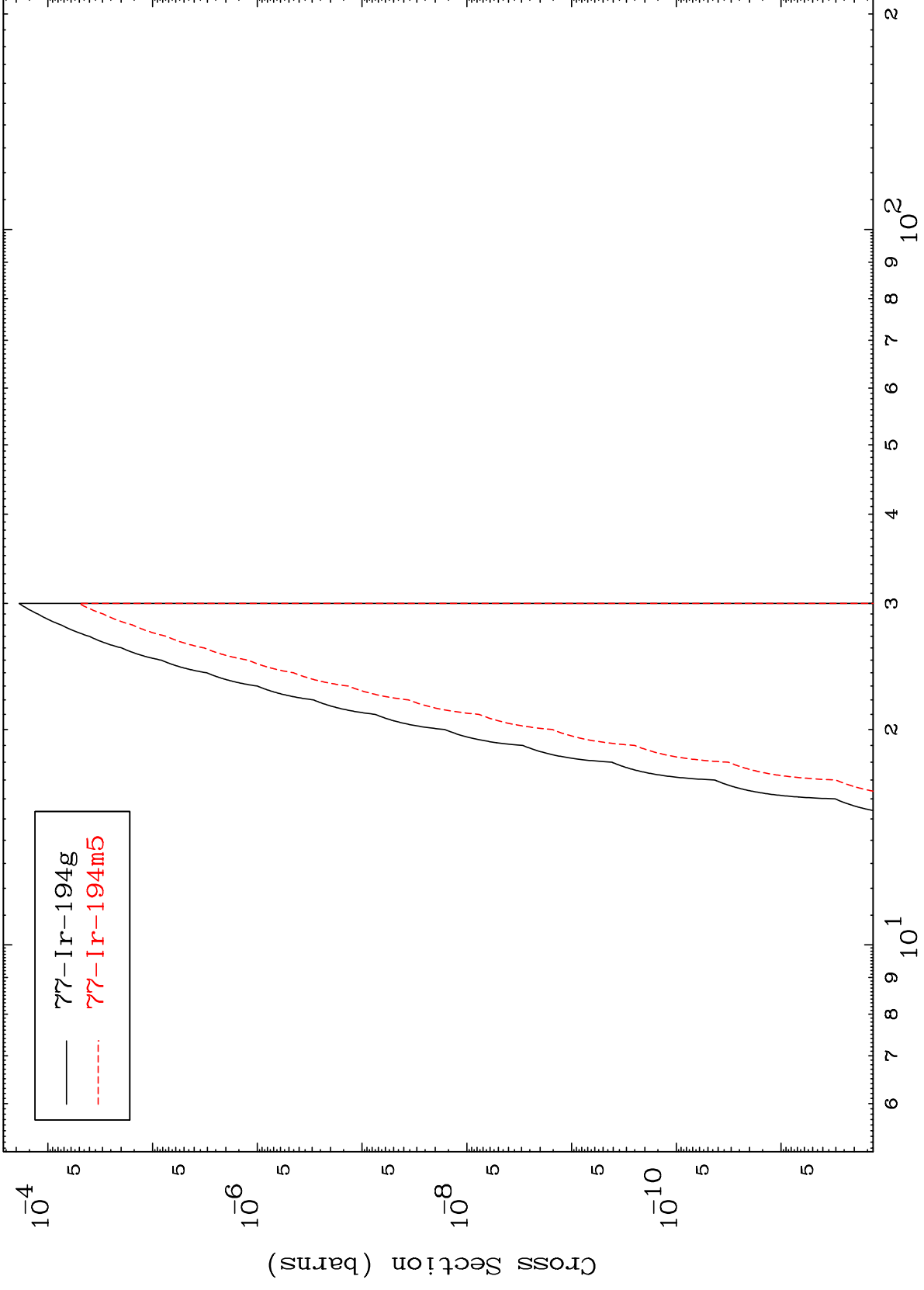
79-Au-196

MAT 7923

(n,He-3)

79-Au-196

Radionuclide Production Cross Section



36

Incident Energy (MeV)

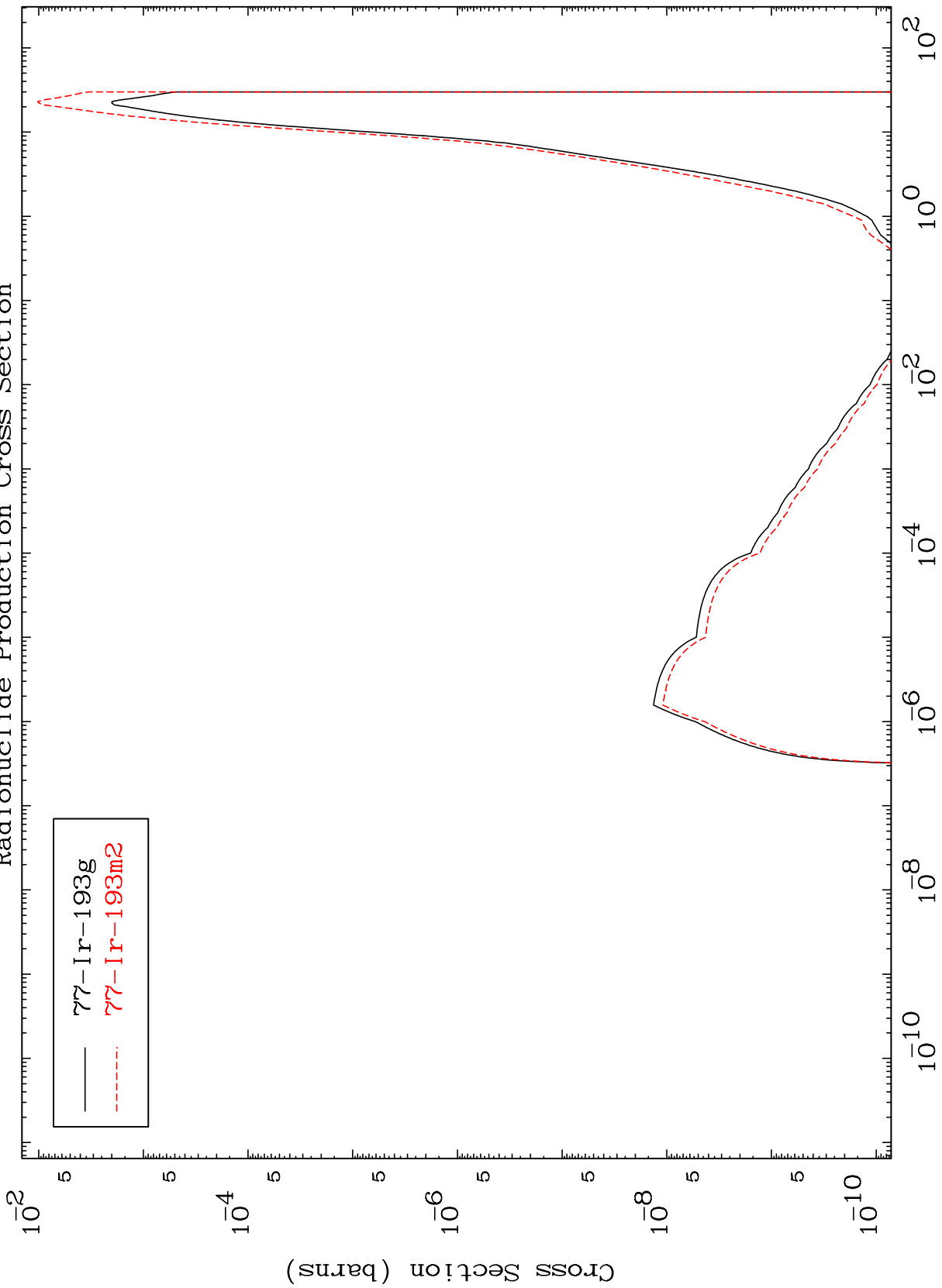
79-Au-196

MAT 7923

(n,  $\alpha$ )

79-Au-196

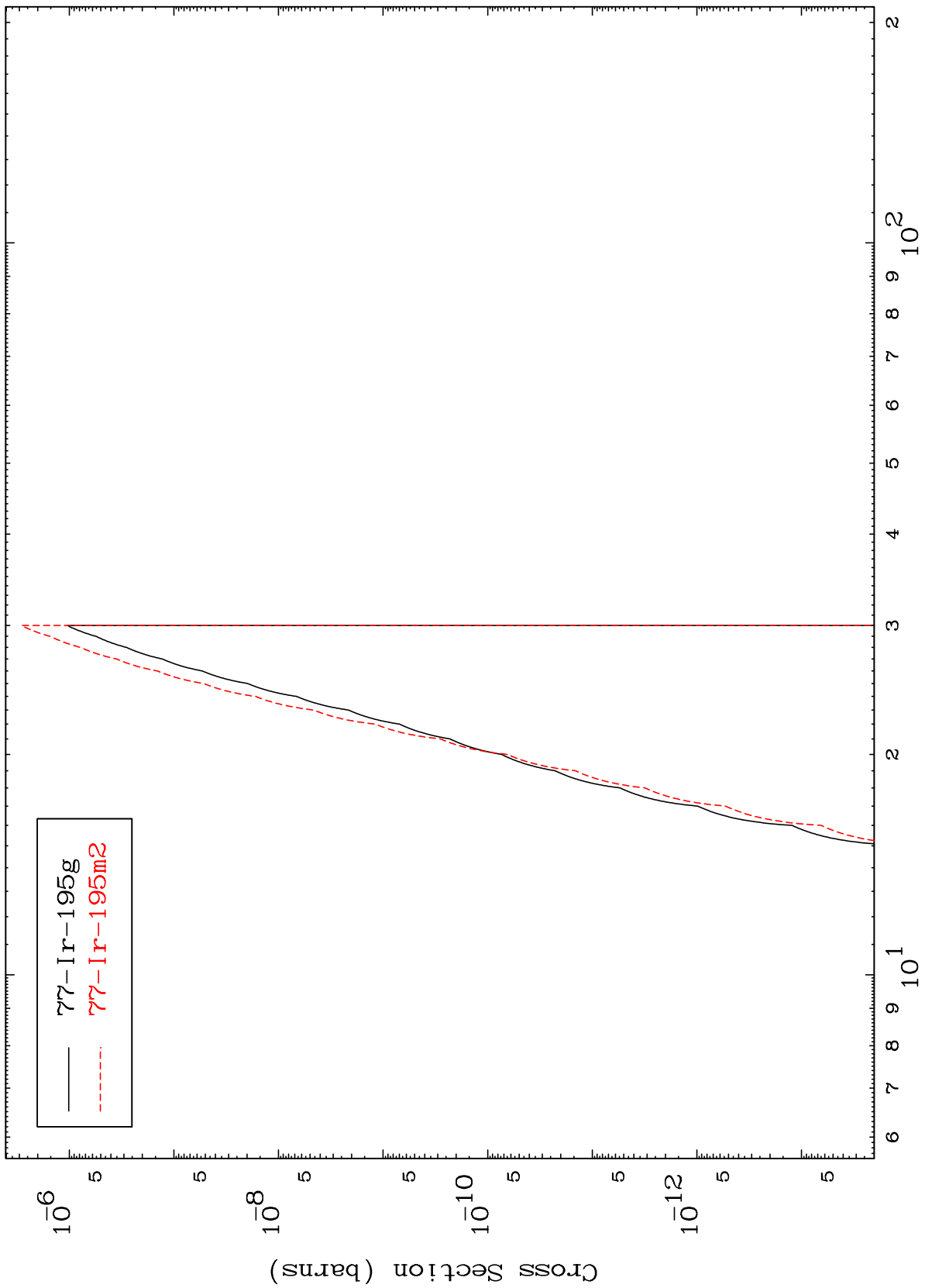
Radionuclide Production Cross Section



MAT 7923

79-Au-196

(n,2p)  
Radionuclide Production Cross Section



38

Incident Energy (MeV)

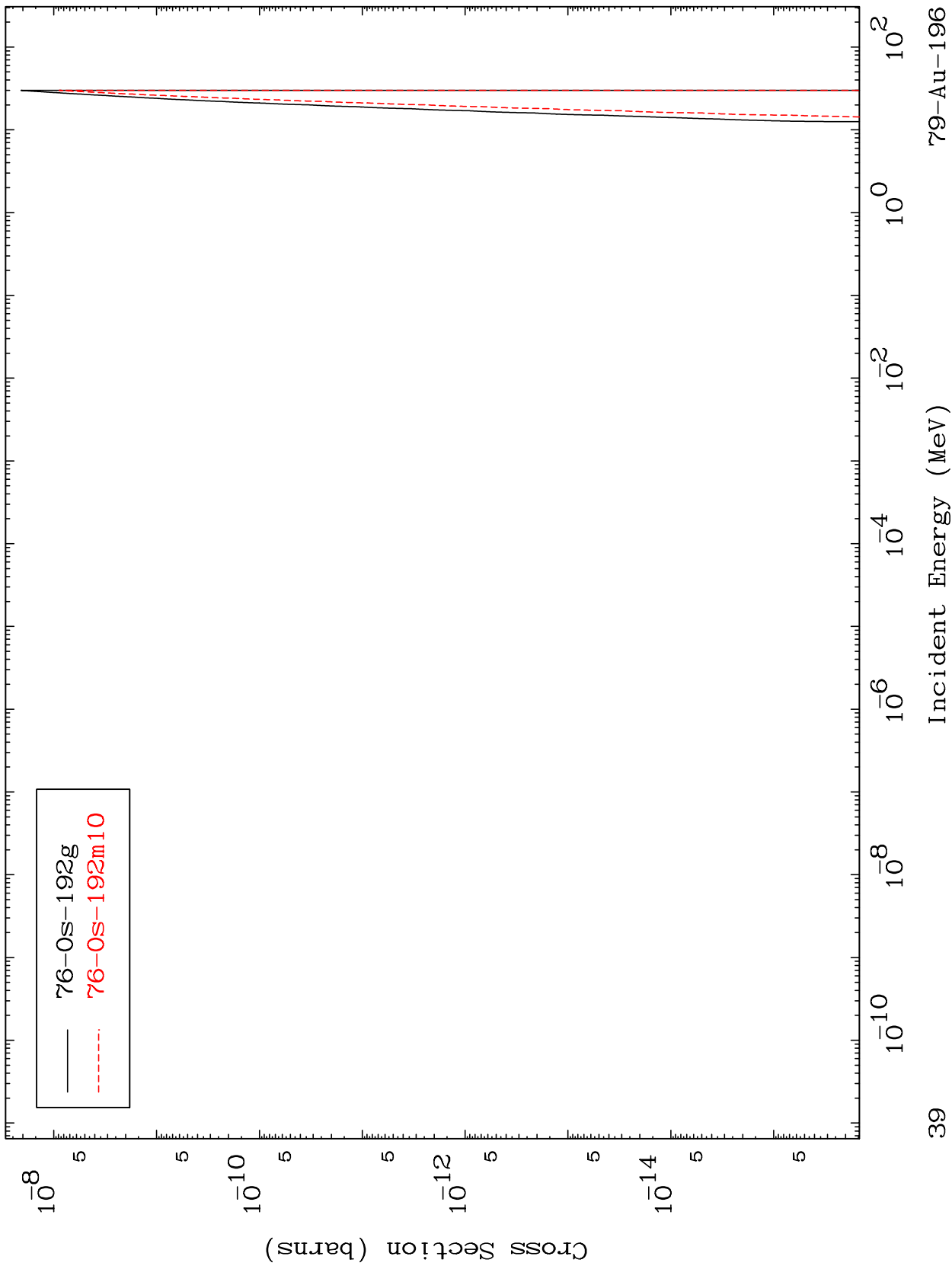
79-Au-196

MAT 7923

(n,p)  $\alpha$

<sup>79</sup>Au-196

Radionuclide Production Cross Section



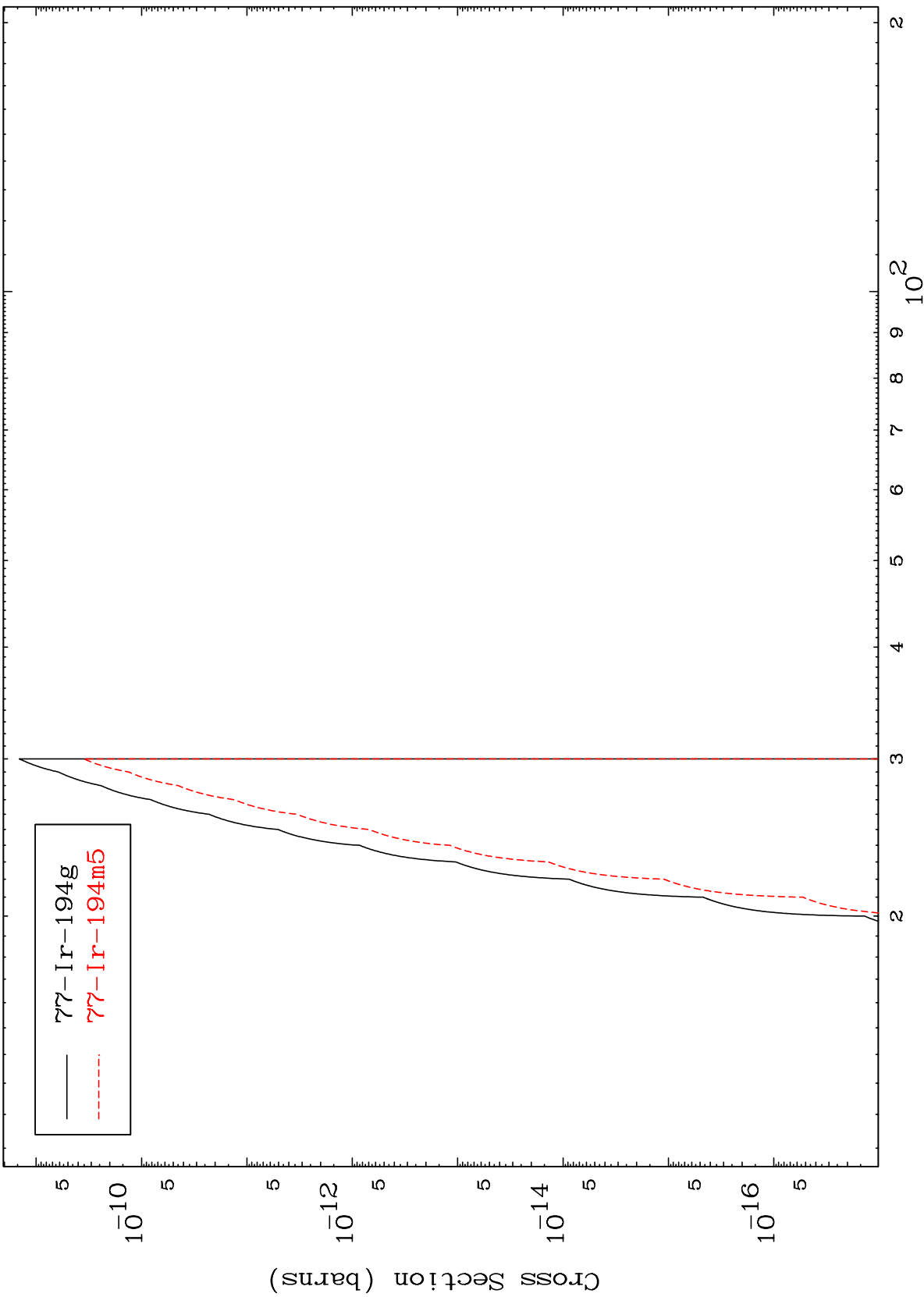


MAT 7923

(n,p) d

79-Au-196

Radionuclide Production Cross Section



40

Incident Energy (MeV)

79-Au-196

MAT 7923

(n,p) t

79-Au-196

Radionuclide Production Cross Section

