

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

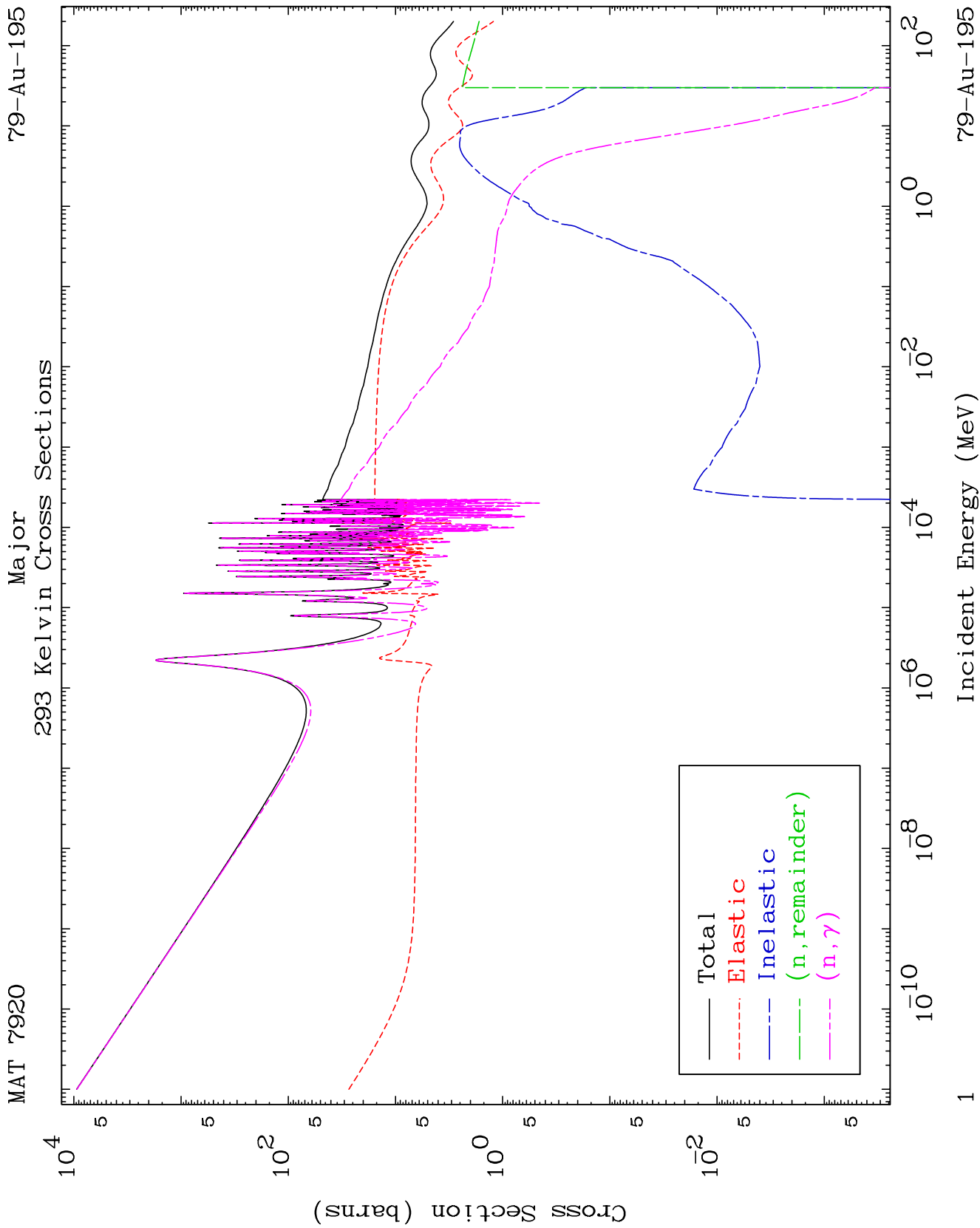
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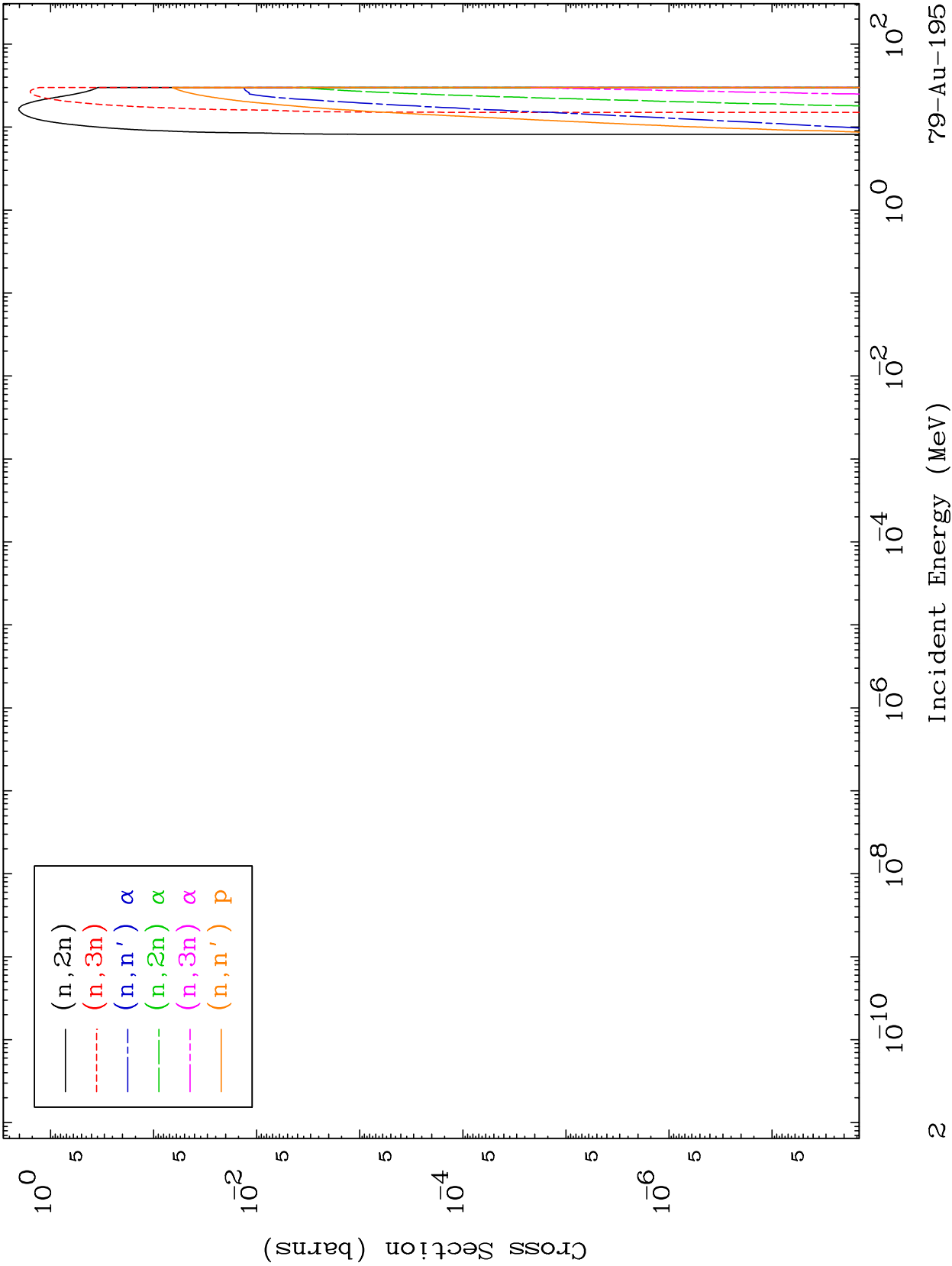
Press Mouse Button to Start

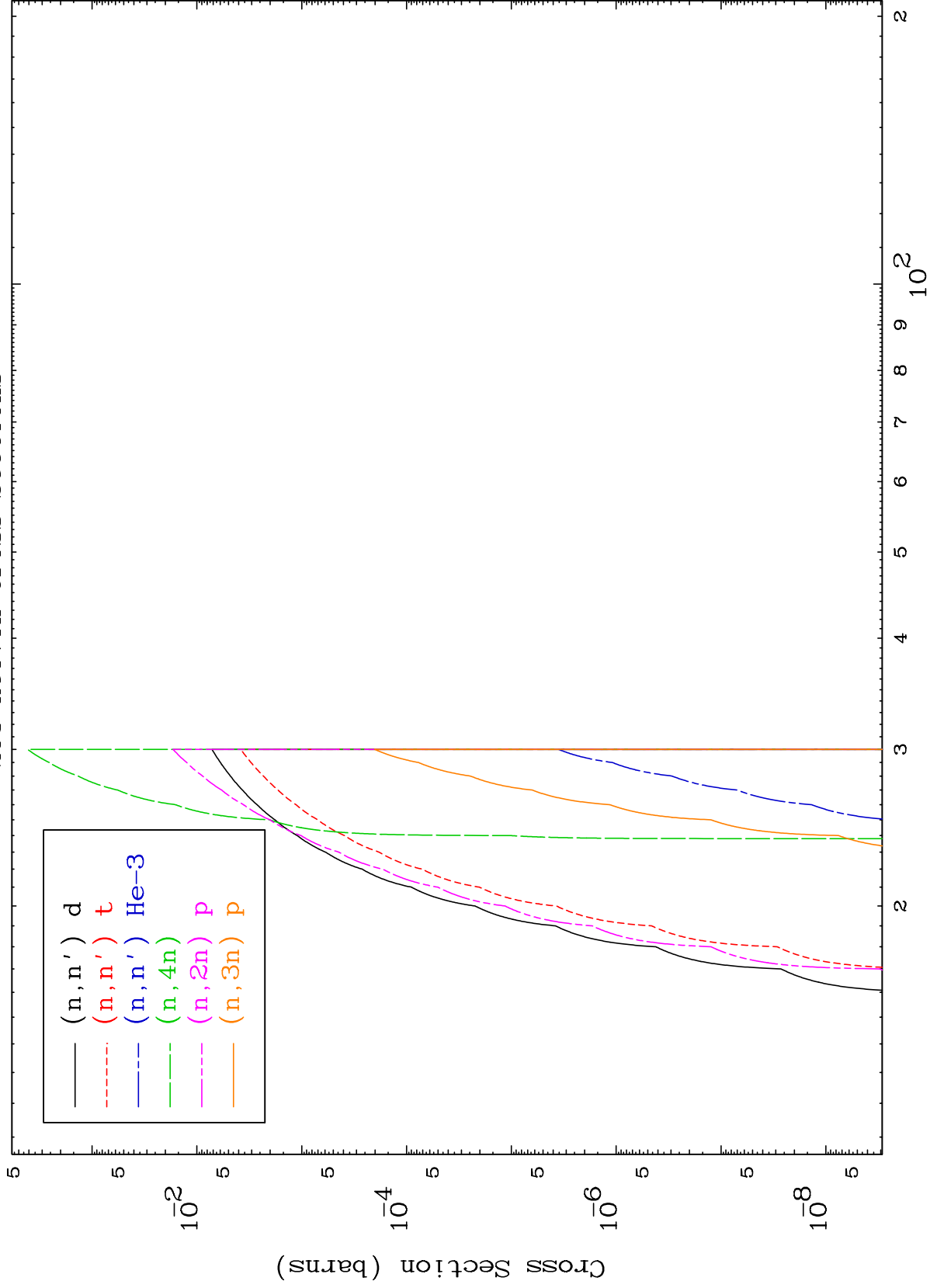


MAT 7920

Neutron Production
293 Kelvin Cross Sections

79-Au-195

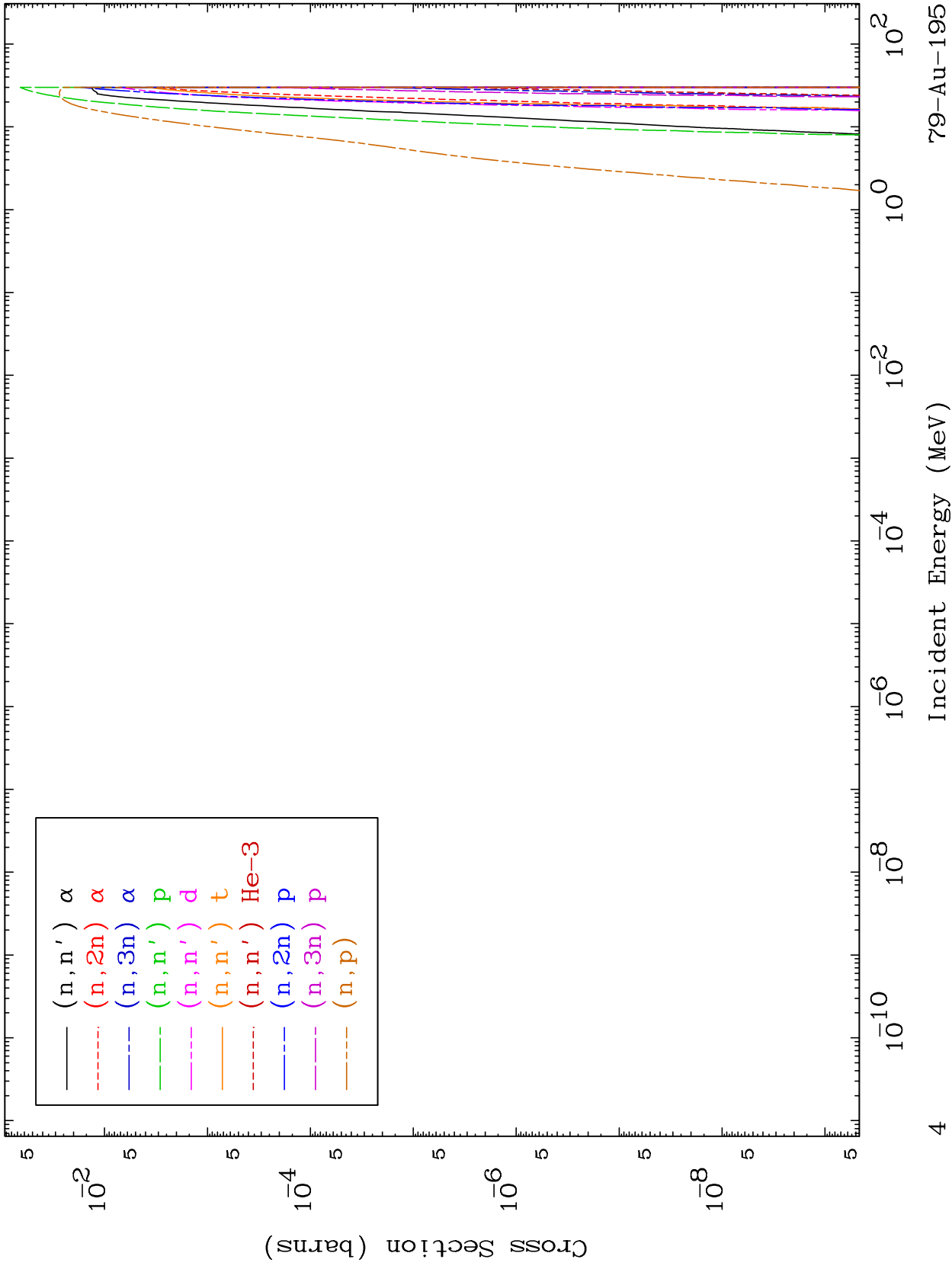




MAT 7920

Charged Particle
293 Kelvin Cross Sections

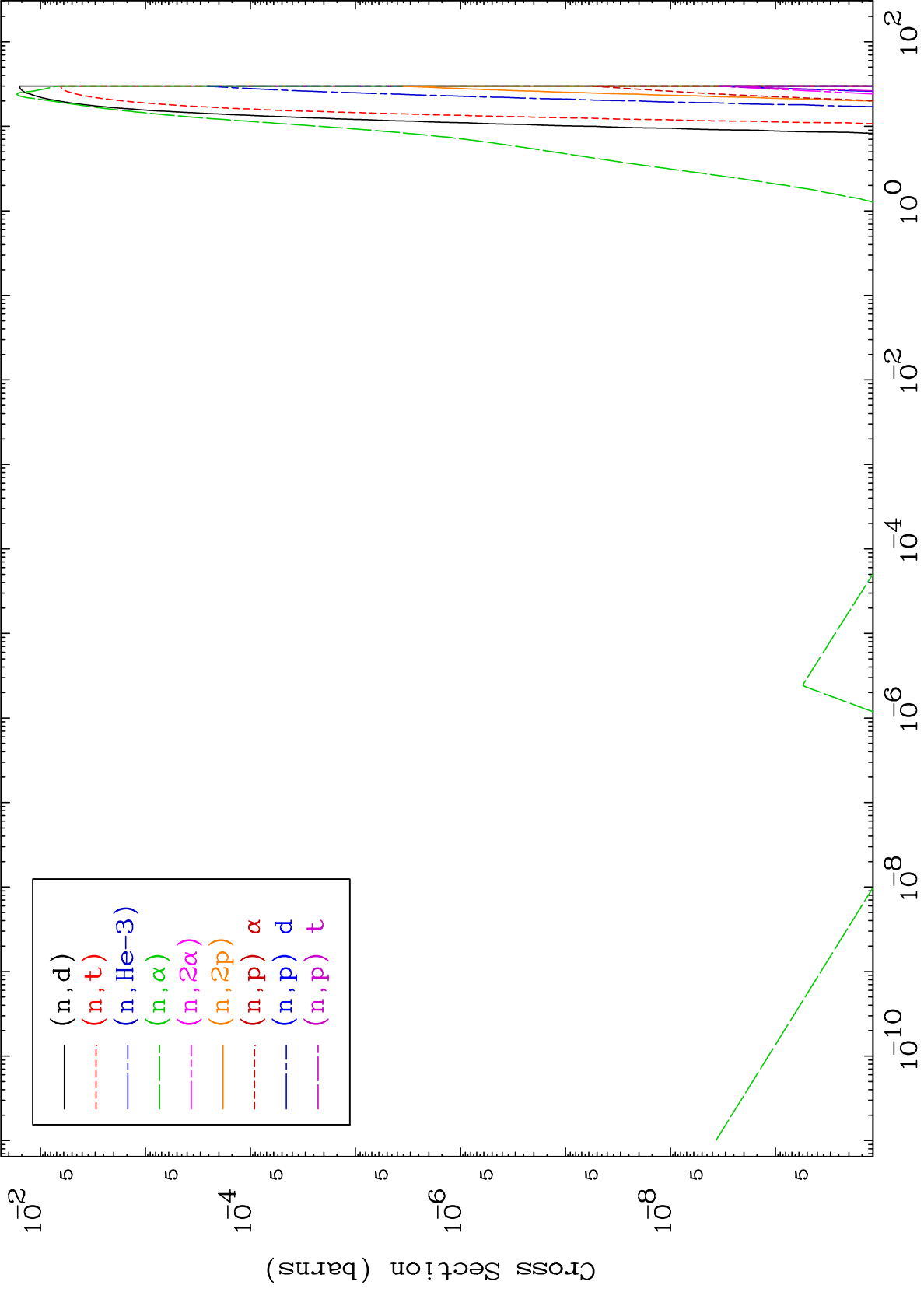
79-Au-195



MAT 7920

Charged Particle
293 Kelvin Cross Sections

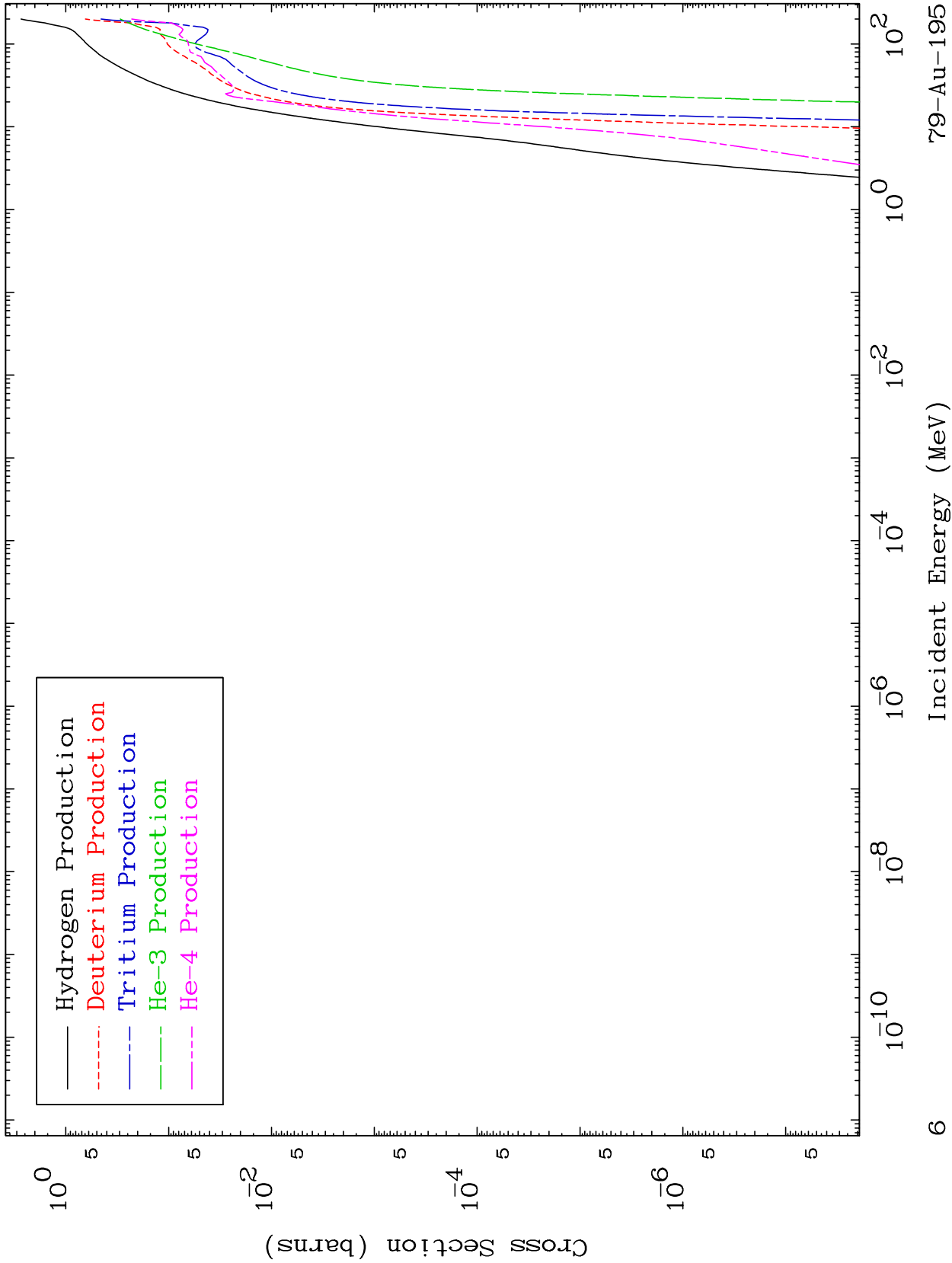
79-Au-195



5

Incident Energy (MeV)

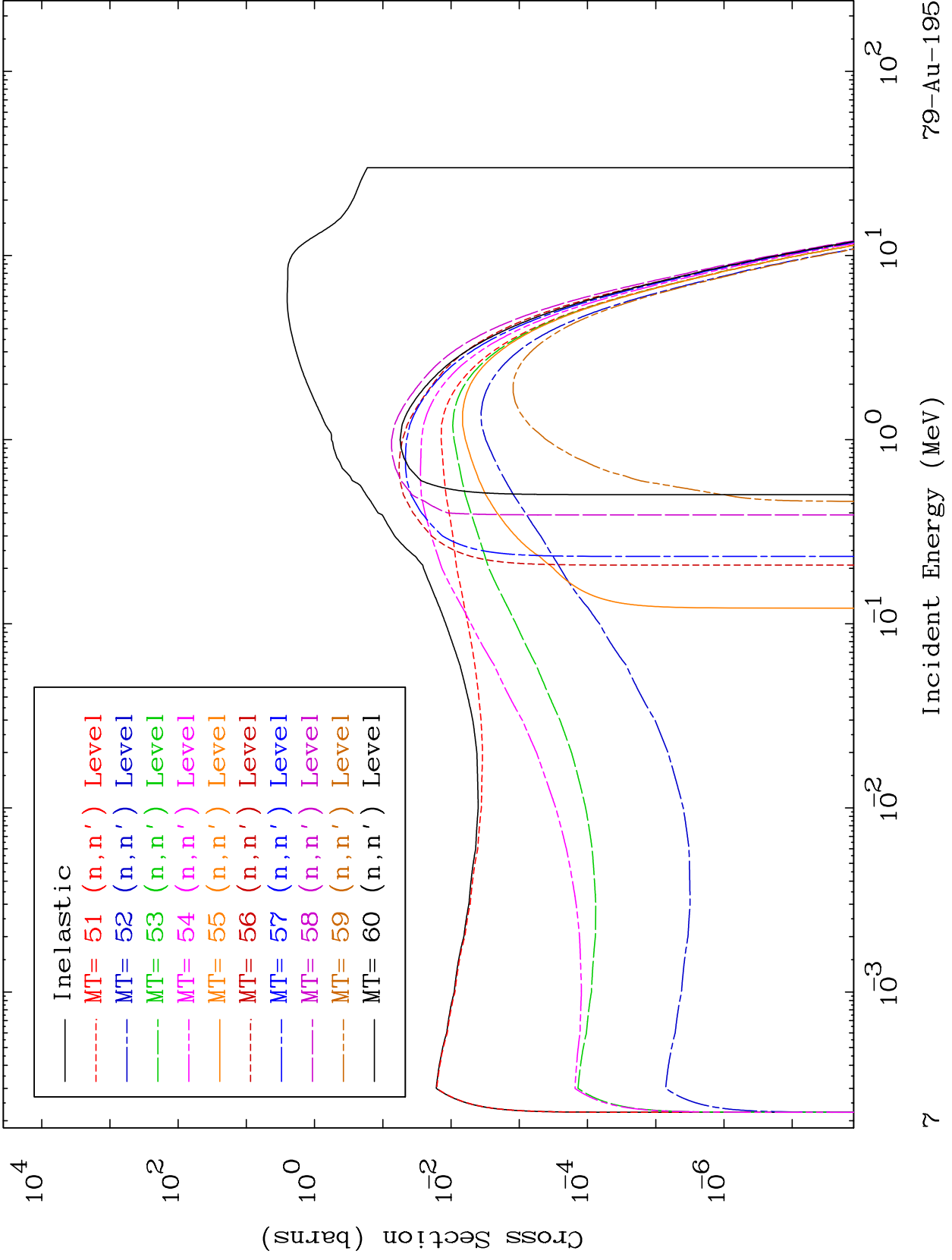
79-Au-195



MAT 7920

(n,n') Level
293 Kelvin Cross Sections

79-Au-195

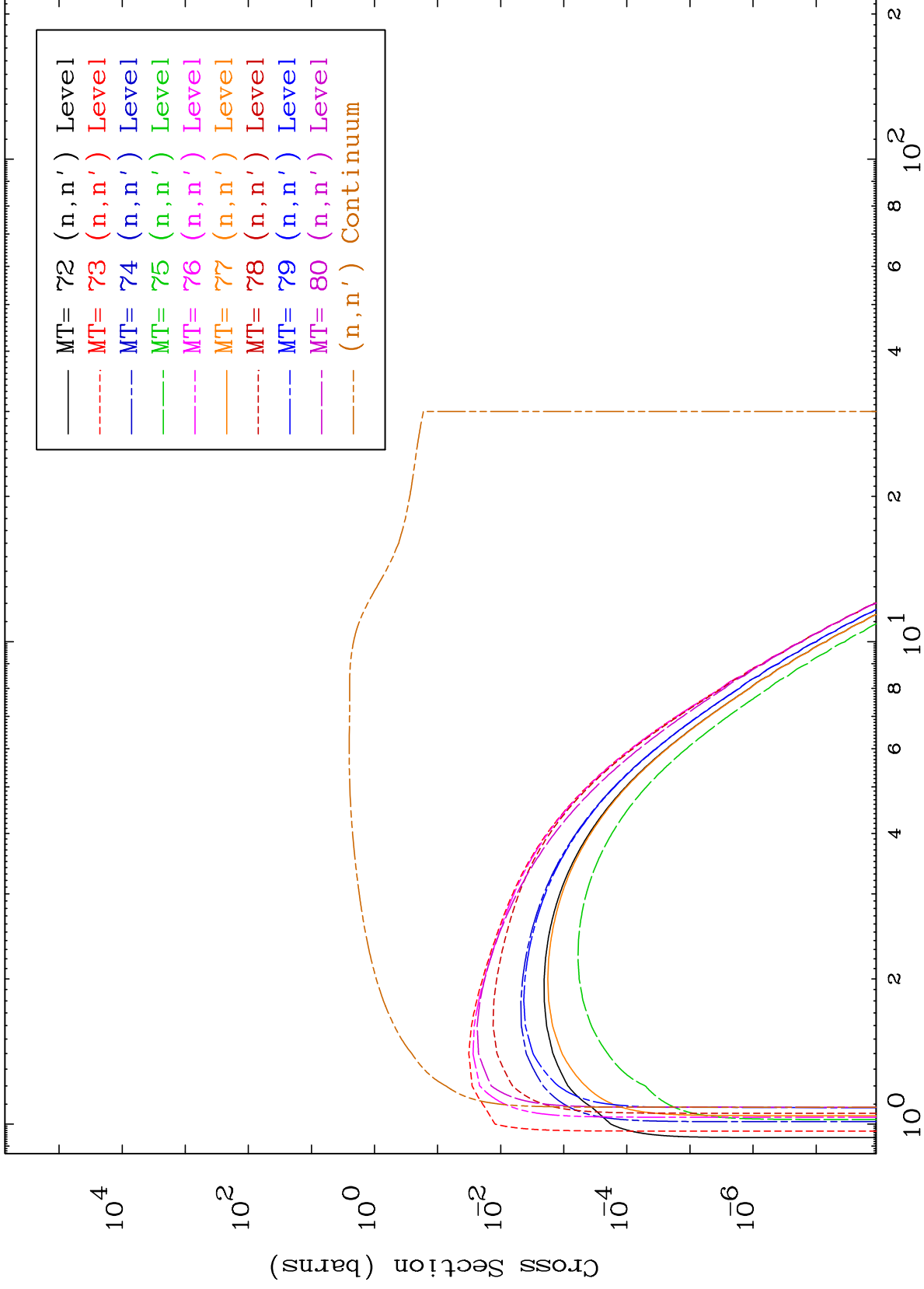


MAT 7920

(n,n') Level

79-Au-195

293 Kelvin Cross Sections



9

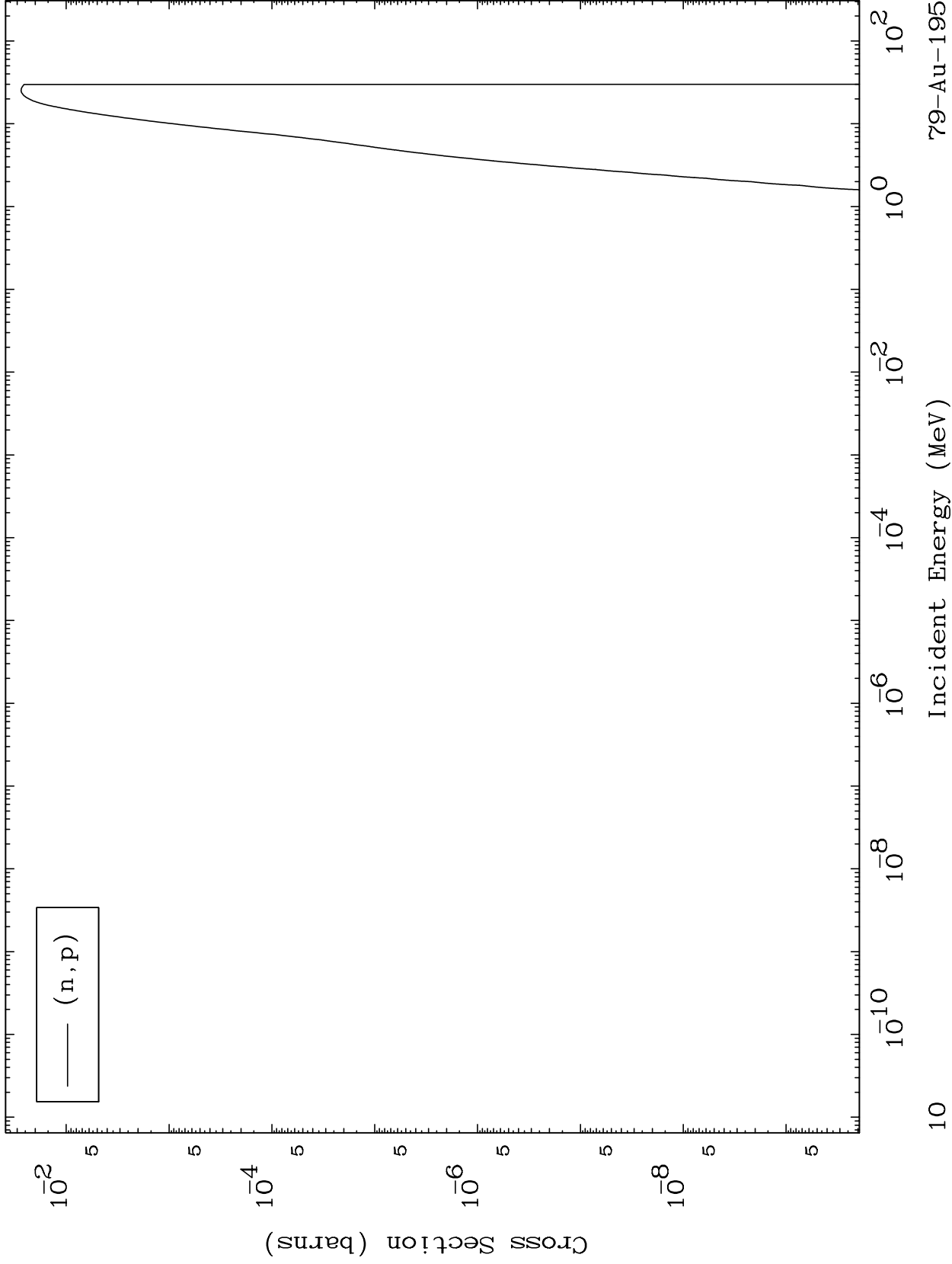
Incident Energy (MeV)

79-Au-195

MAT 7920

(n,p) Levels
293 Kelvin Cross Sections

79-Au-195



10

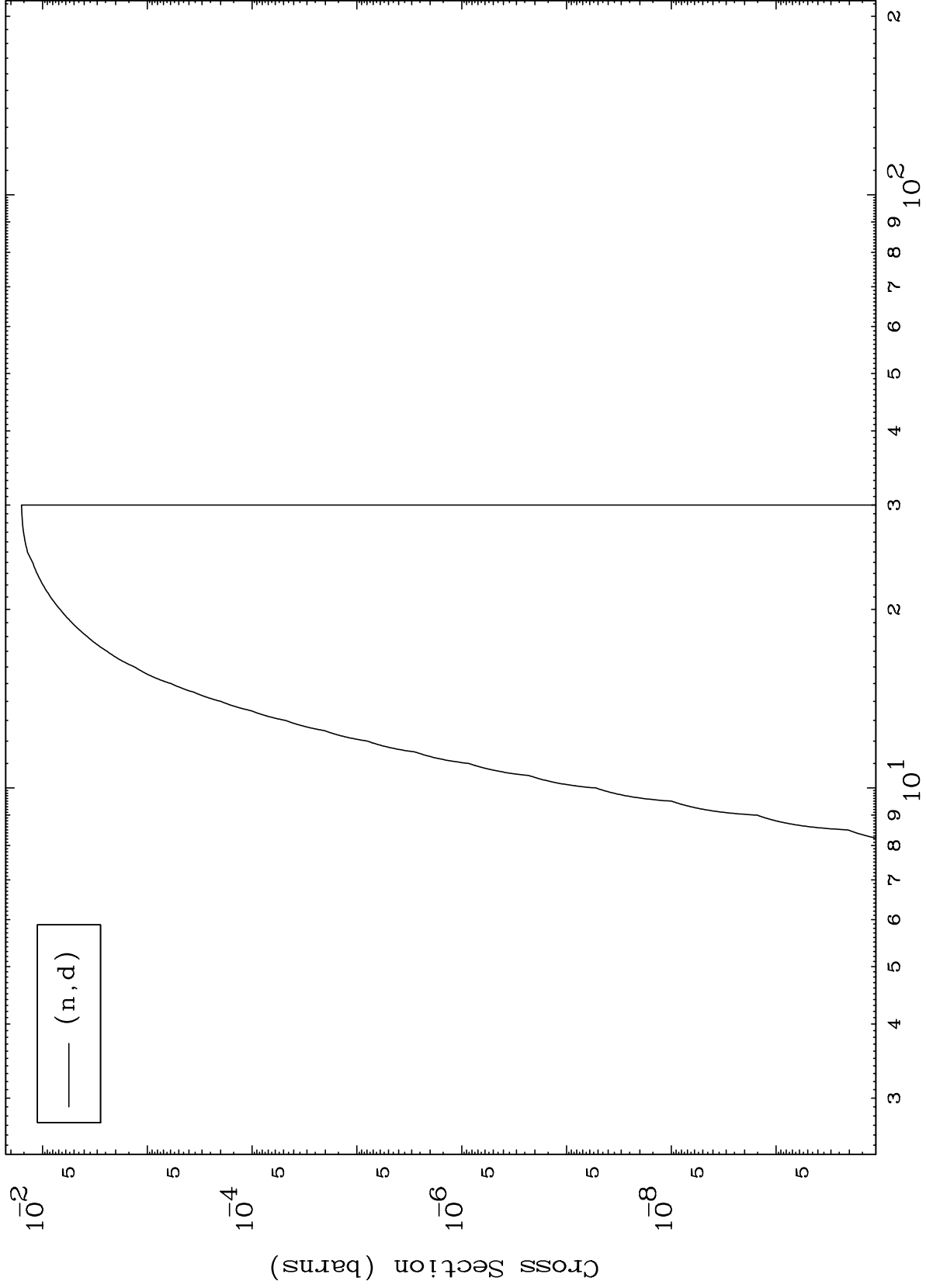
Incident Energy (MeV)

79-Au-195

MAT 7920

(n,d) Levels
293 Kelvin Cross Sections

79-Au-195



11

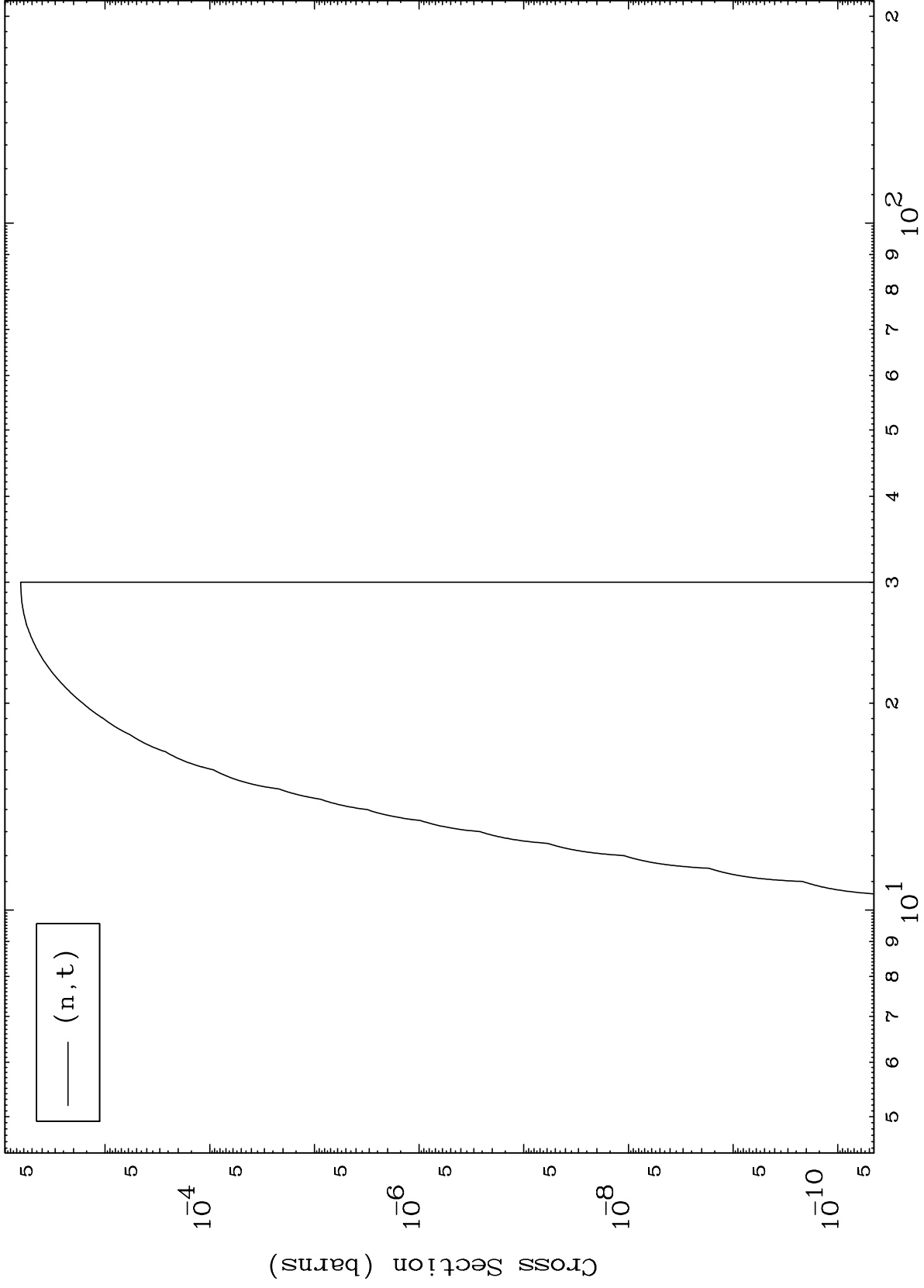
Incident Energy (MeV)

79-Au-195

MAT 7920

(n,t) Levels
293 Kelvin Cross Sections

79-Au-195



(n,t)

Incident Energy (MeV)

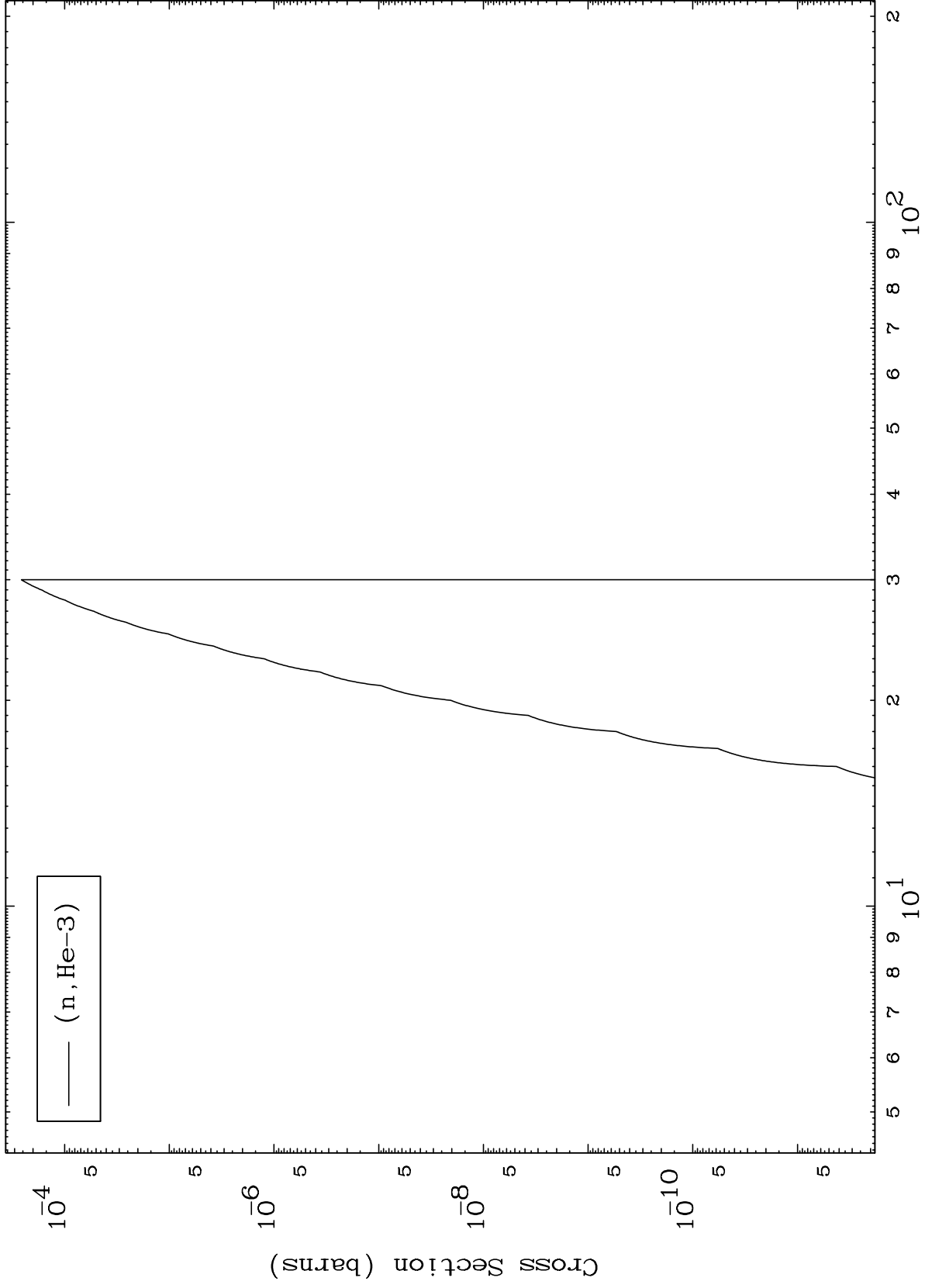
79-Au-195

12

MAT 7920

(n,He3) Levels
293 Kelvin Cross Sections

79-Au-195



13

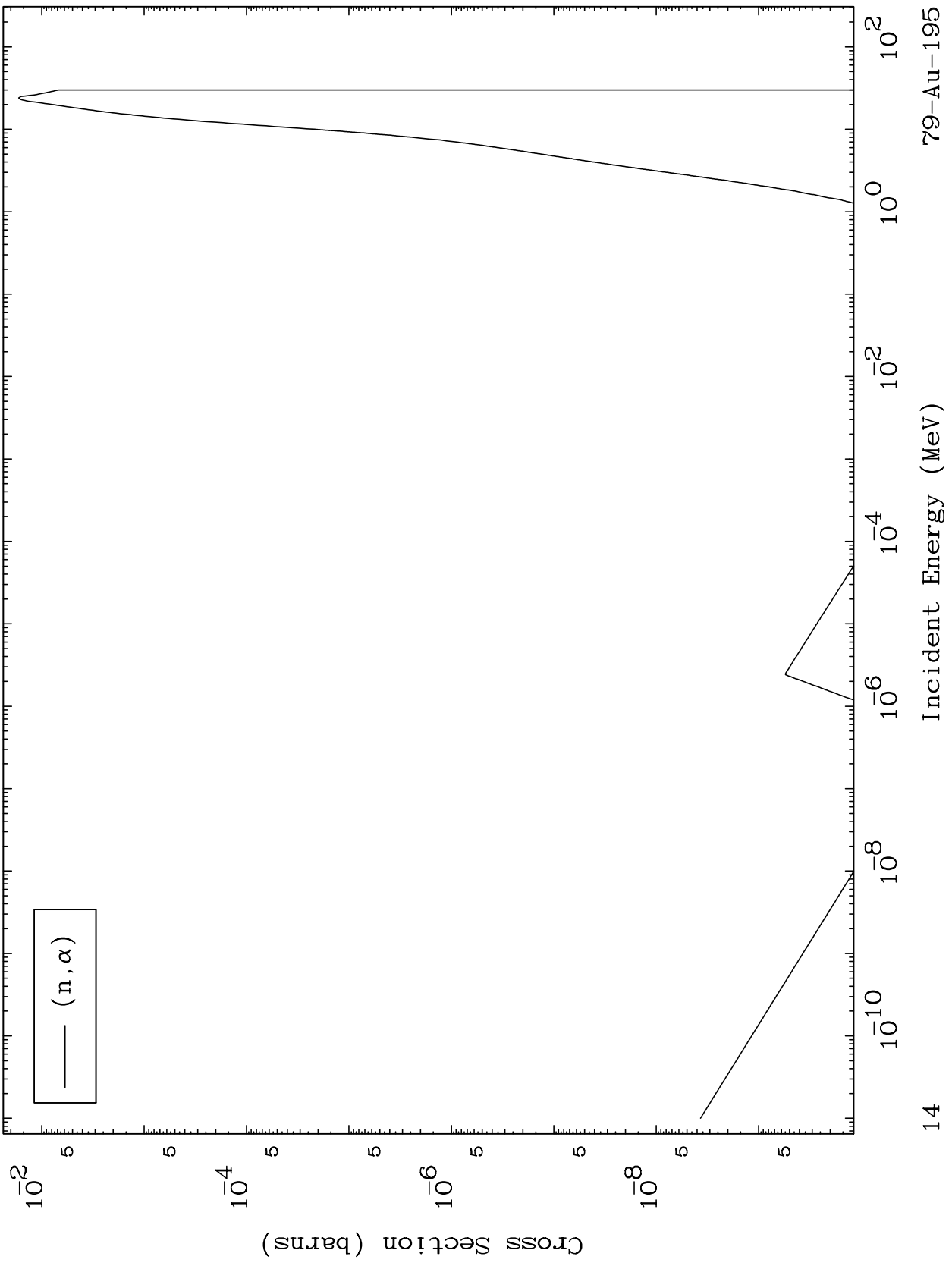
Incident Energy (MeV)

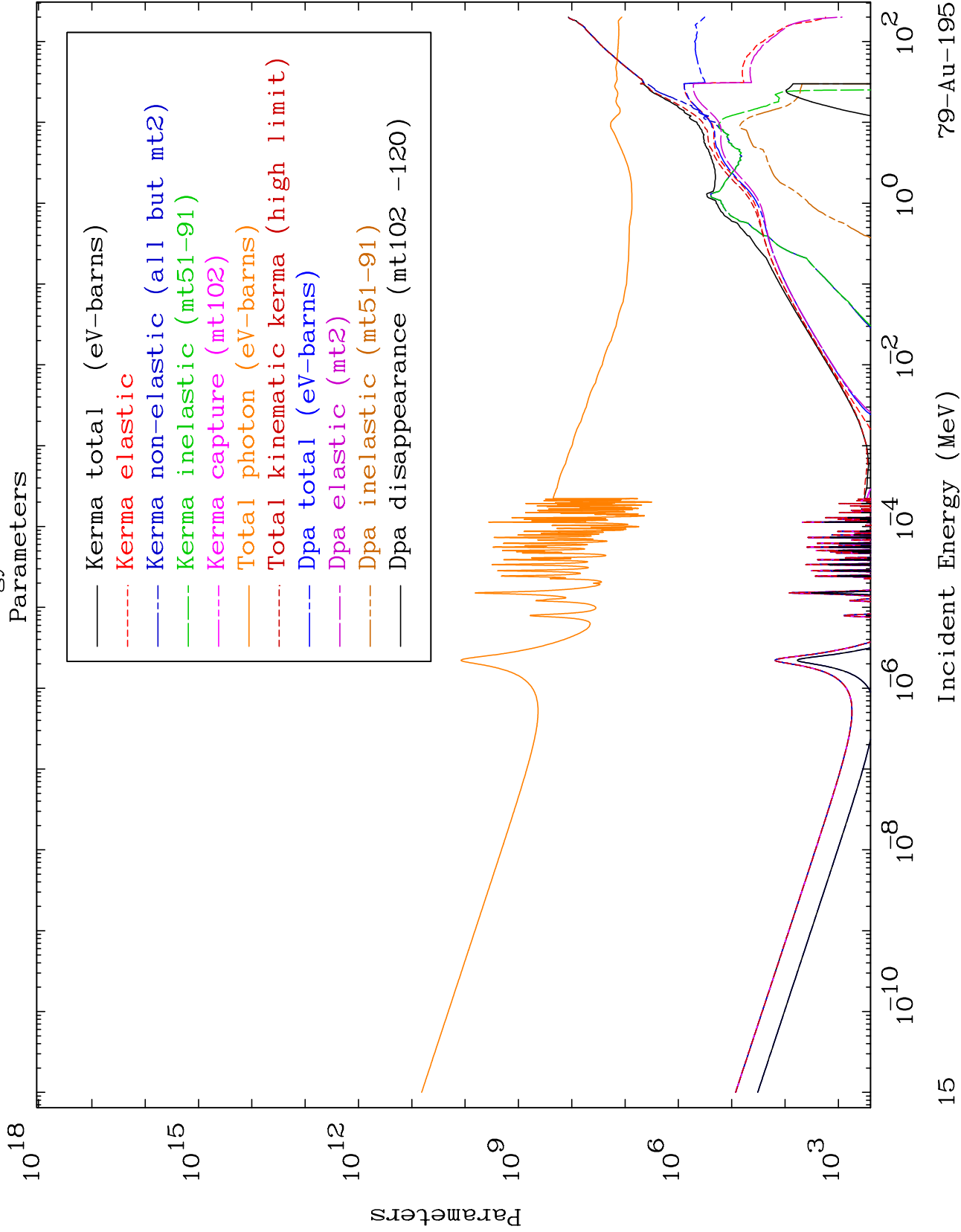
79-Au-195

MAT 7920

(n, α) Levels
293 Kelvin Cross Sections

79-Au-195

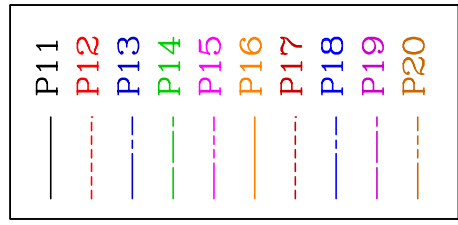




MAT 7920

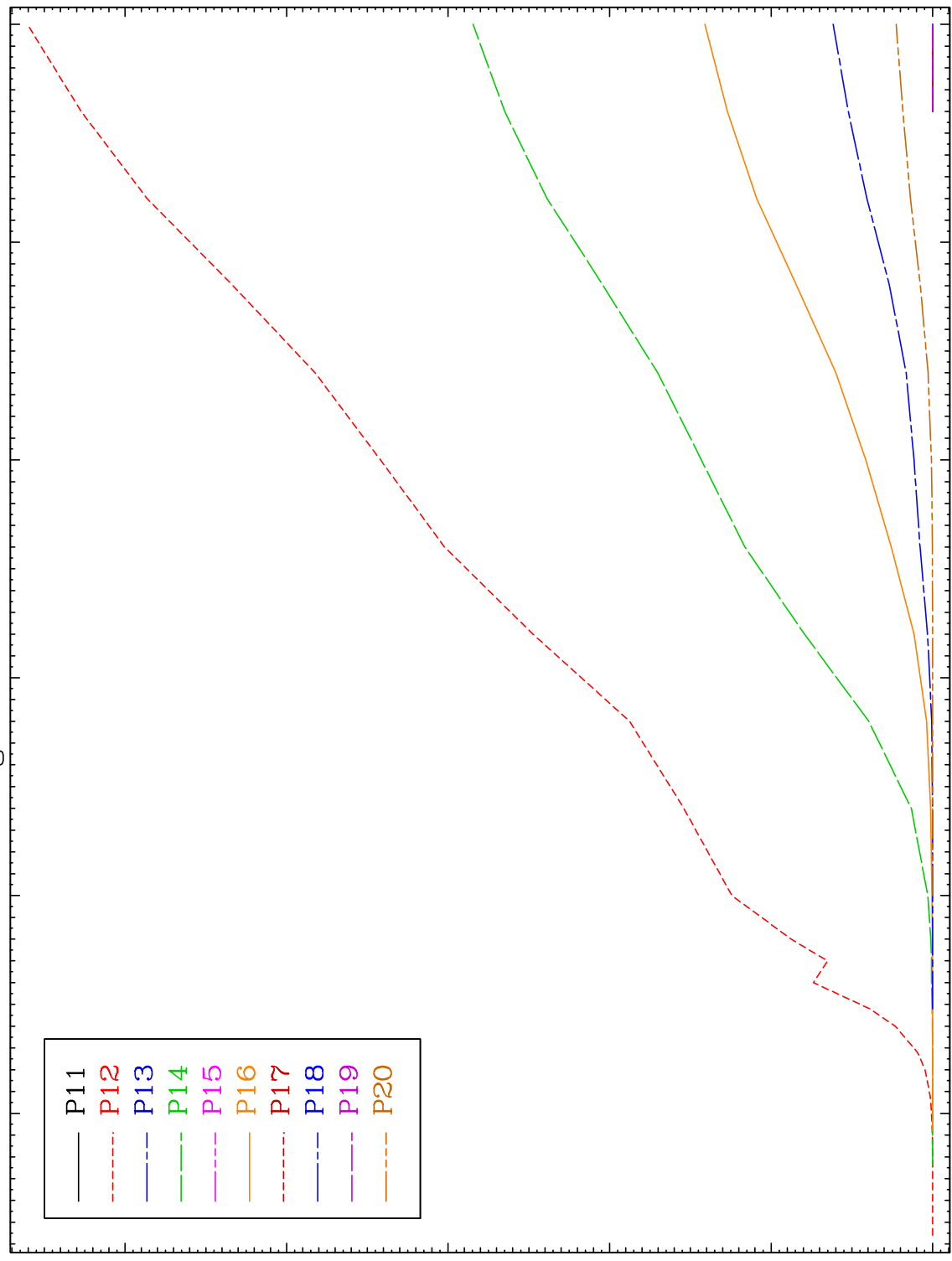
Elastic Legendre Coefficients

79-Au-195



$\times 10^{-4}$

Legendre (CM)



17

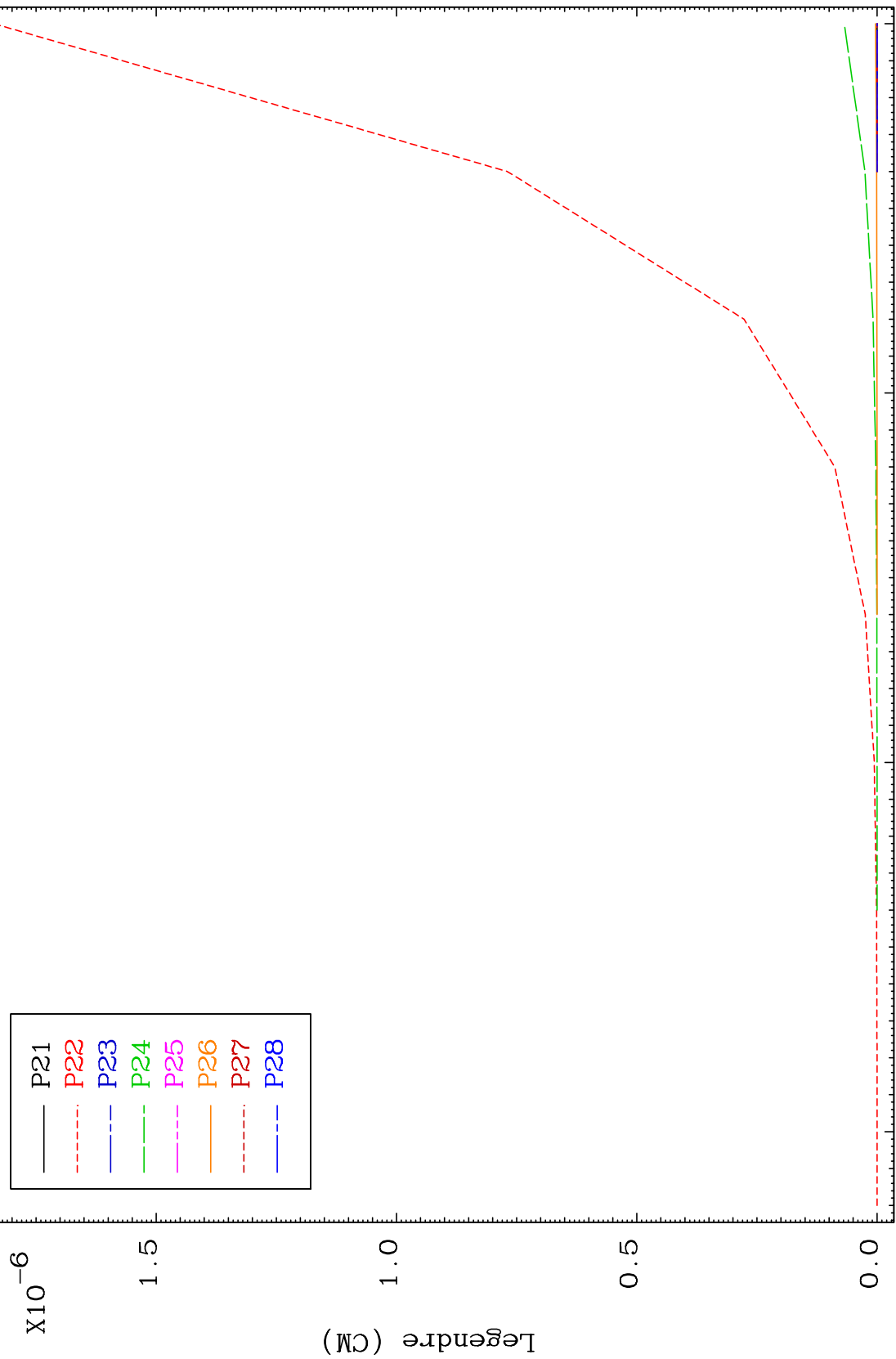
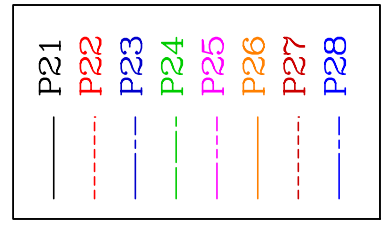
Incident Energy (MeV)

79-Au-195

MAT 7920

Elastic Legendre Coefficients

79-Au-195



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Incident Energy (MeV)

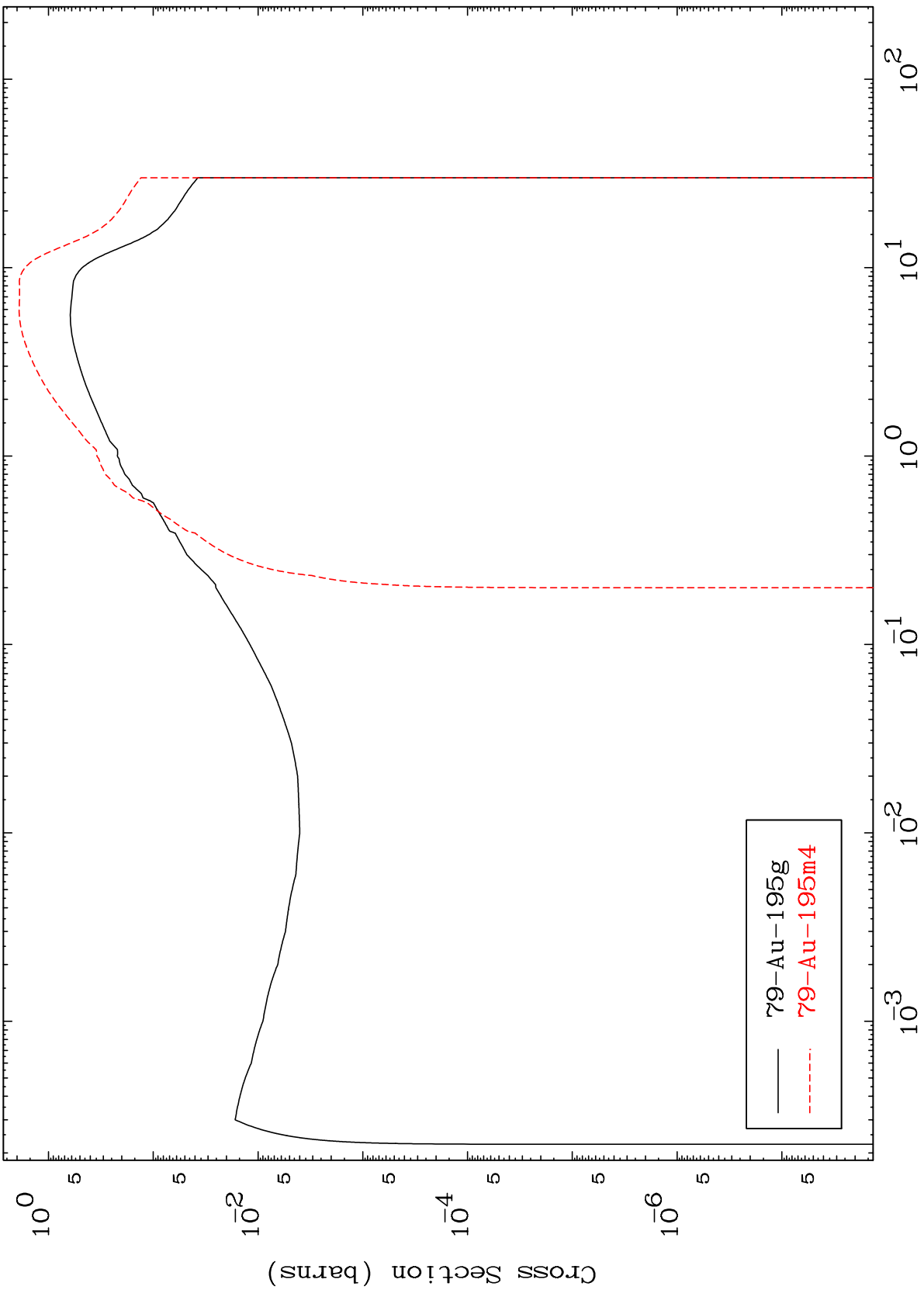
79-Au-195

MAT 7920

79-Au-195

Inelastic

Radionuclide Production Cross Section



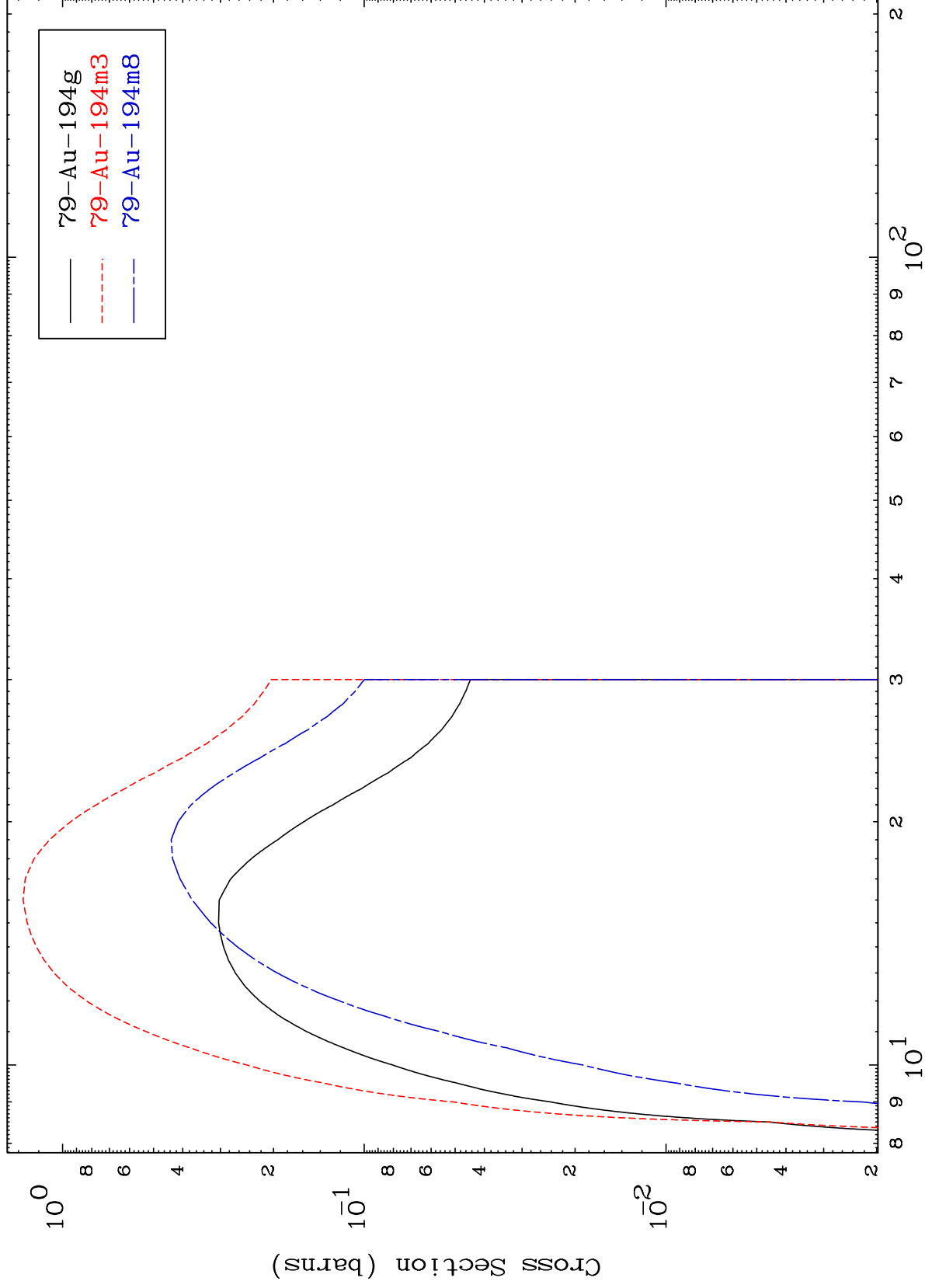
79-Au-195g
79-Au-195m4

MAT 7920

(n,2n)

79-Au-195

Radionuclide Production Cross Section



Incident Energy (MeV)

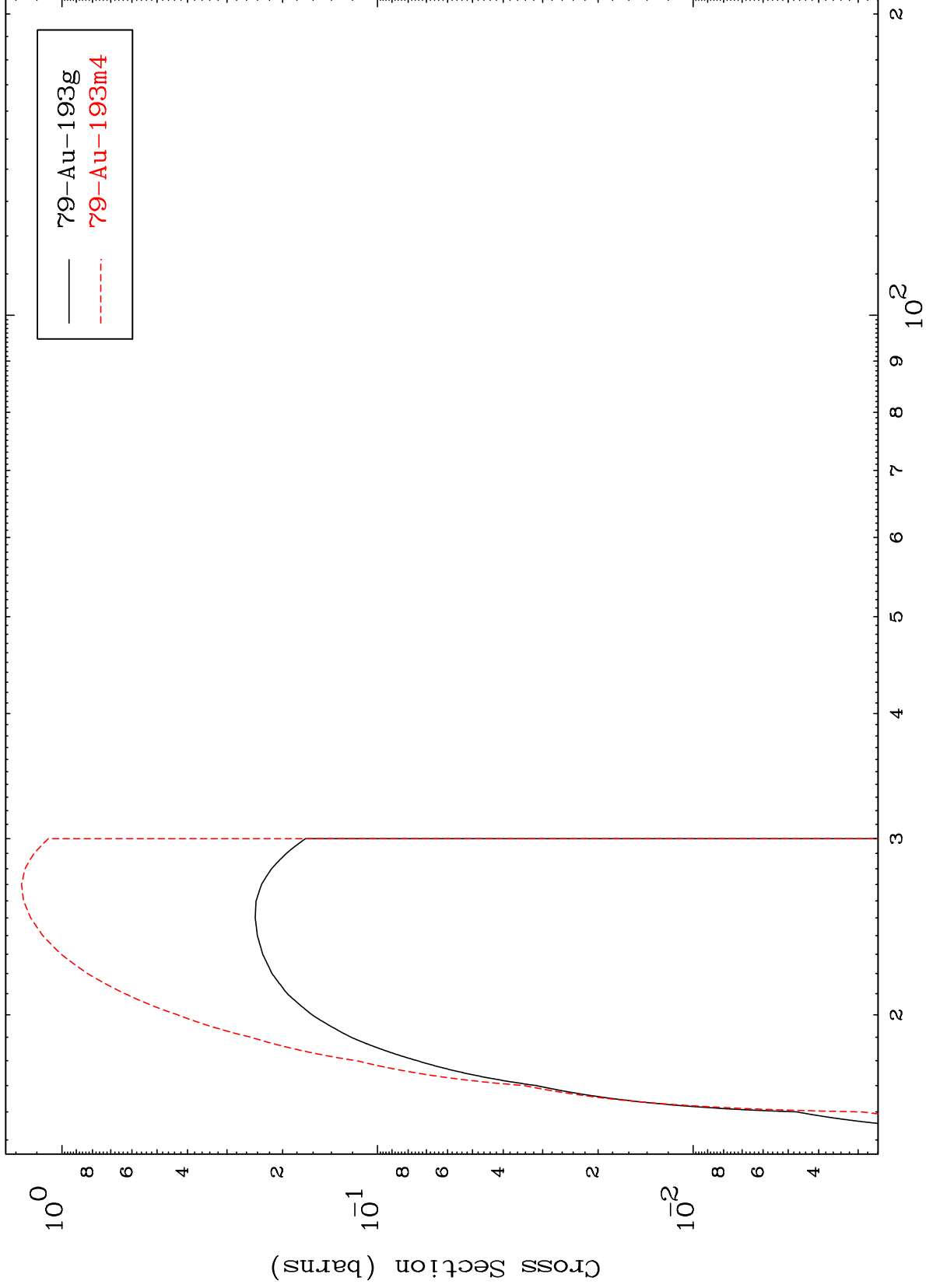
79-Au-195

MAT 7920

(n,3n)

79-Au-195

Radionuclide Production Cross Section



21

Incident Energy (MeV)

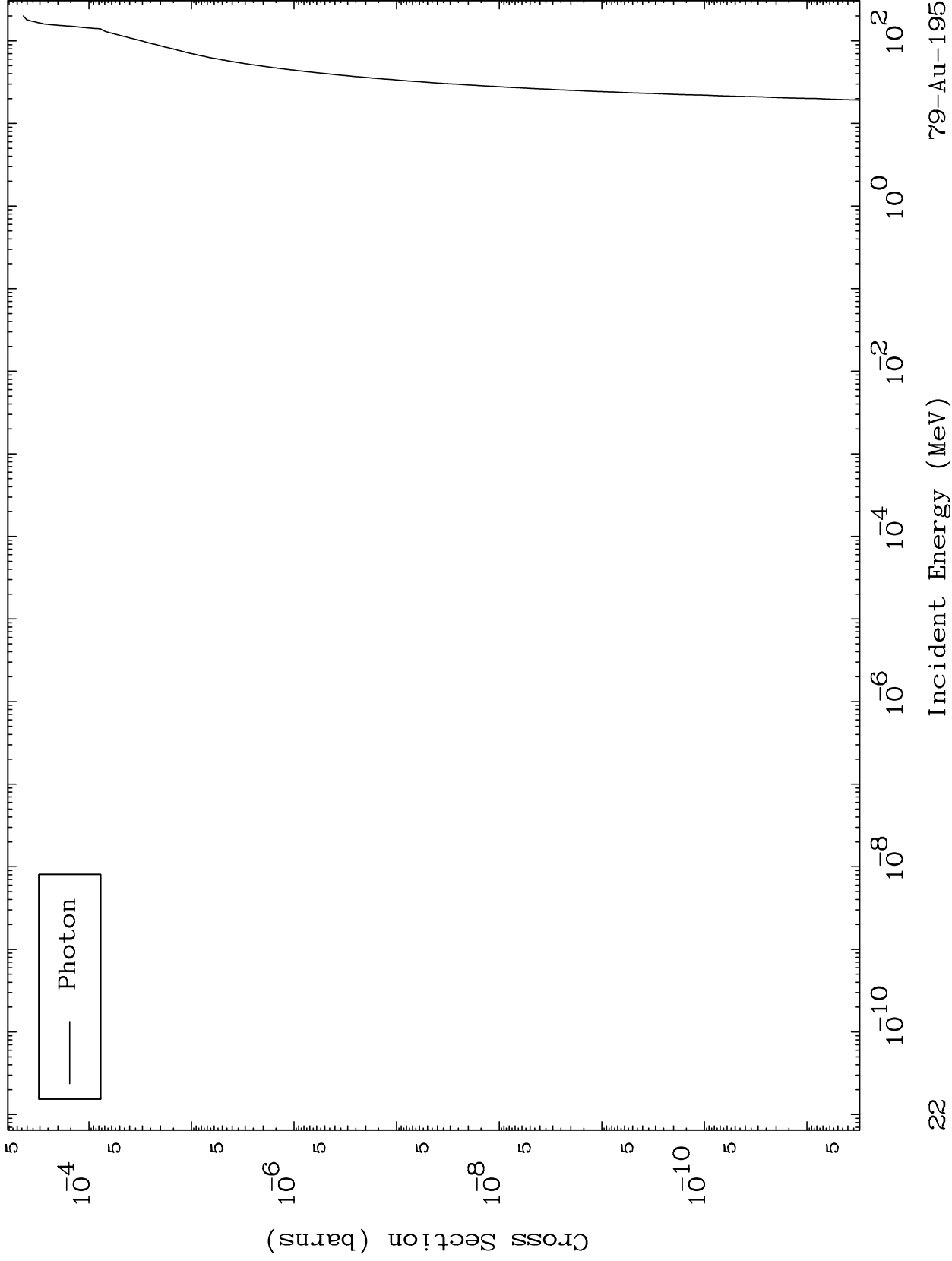
79-Au-195

MAT 7920

Fission

79-Au-195

Radionuclide Production Cross Section

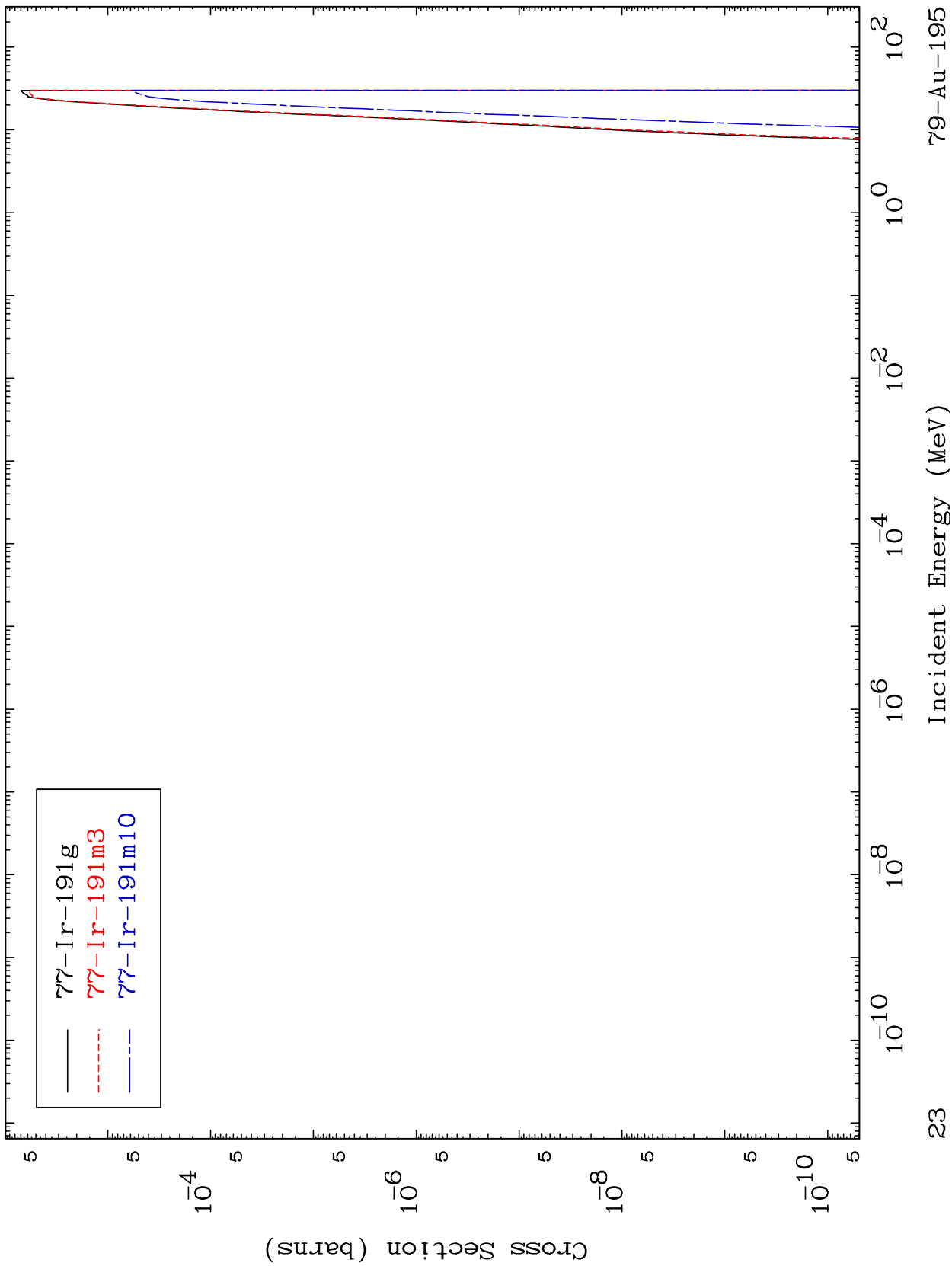


MAT 7920

$(n, n') \alpha$

$^{79}\text{Au-195}$

Radionuclide Production Cross Section

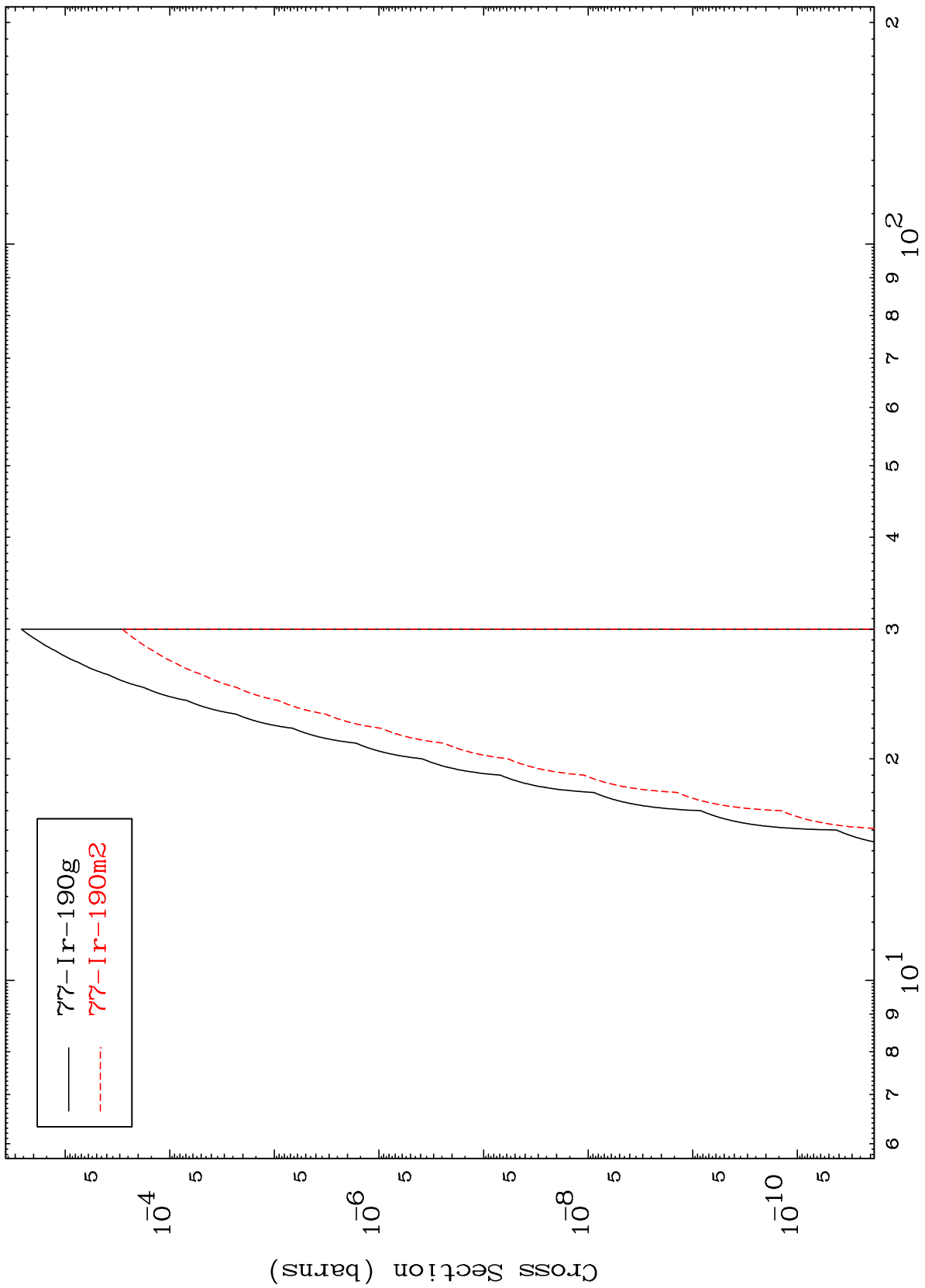


MAT 7920

(n,2n) α

79-Au-195

Radionuclide Production Cross Section

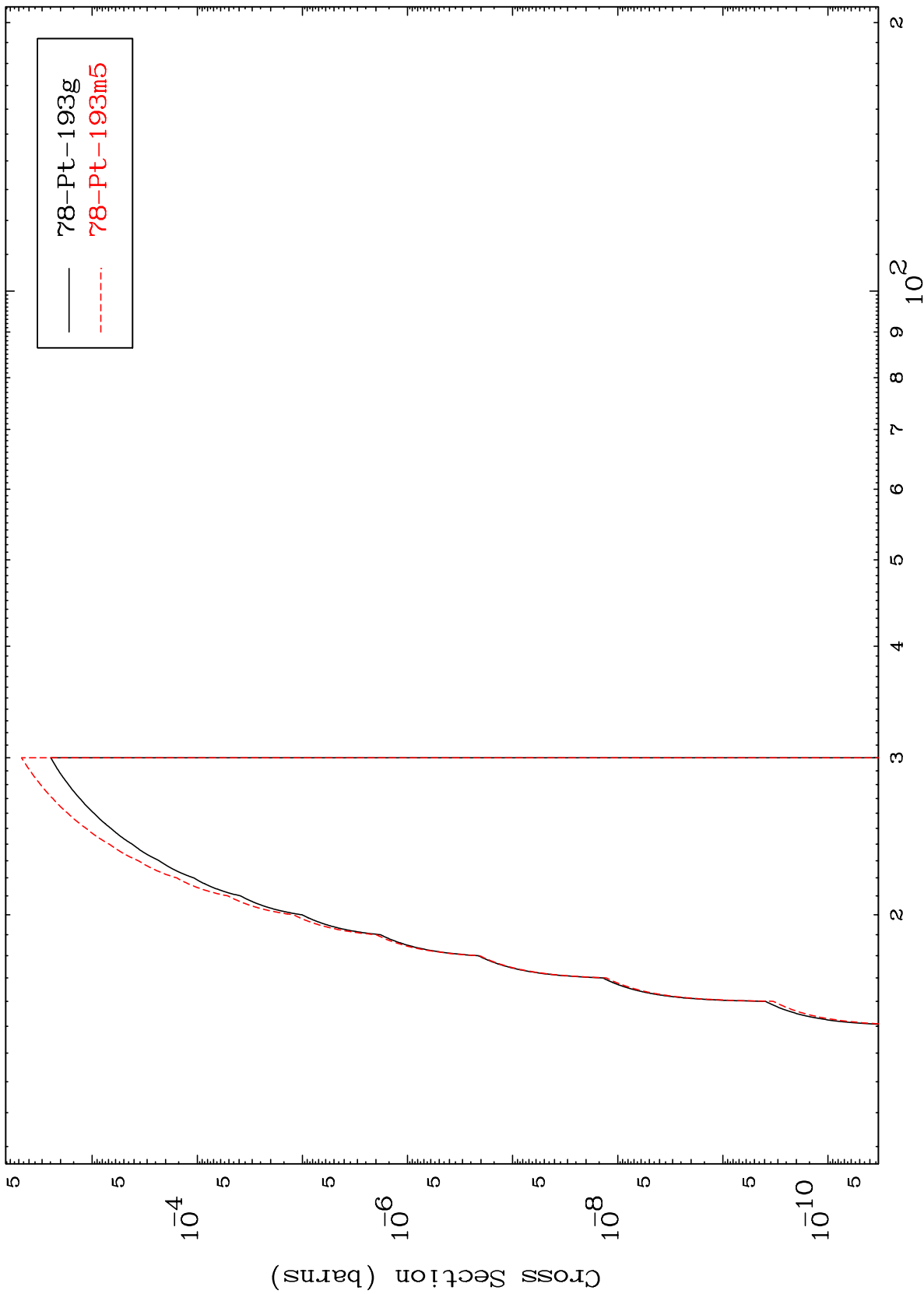


24

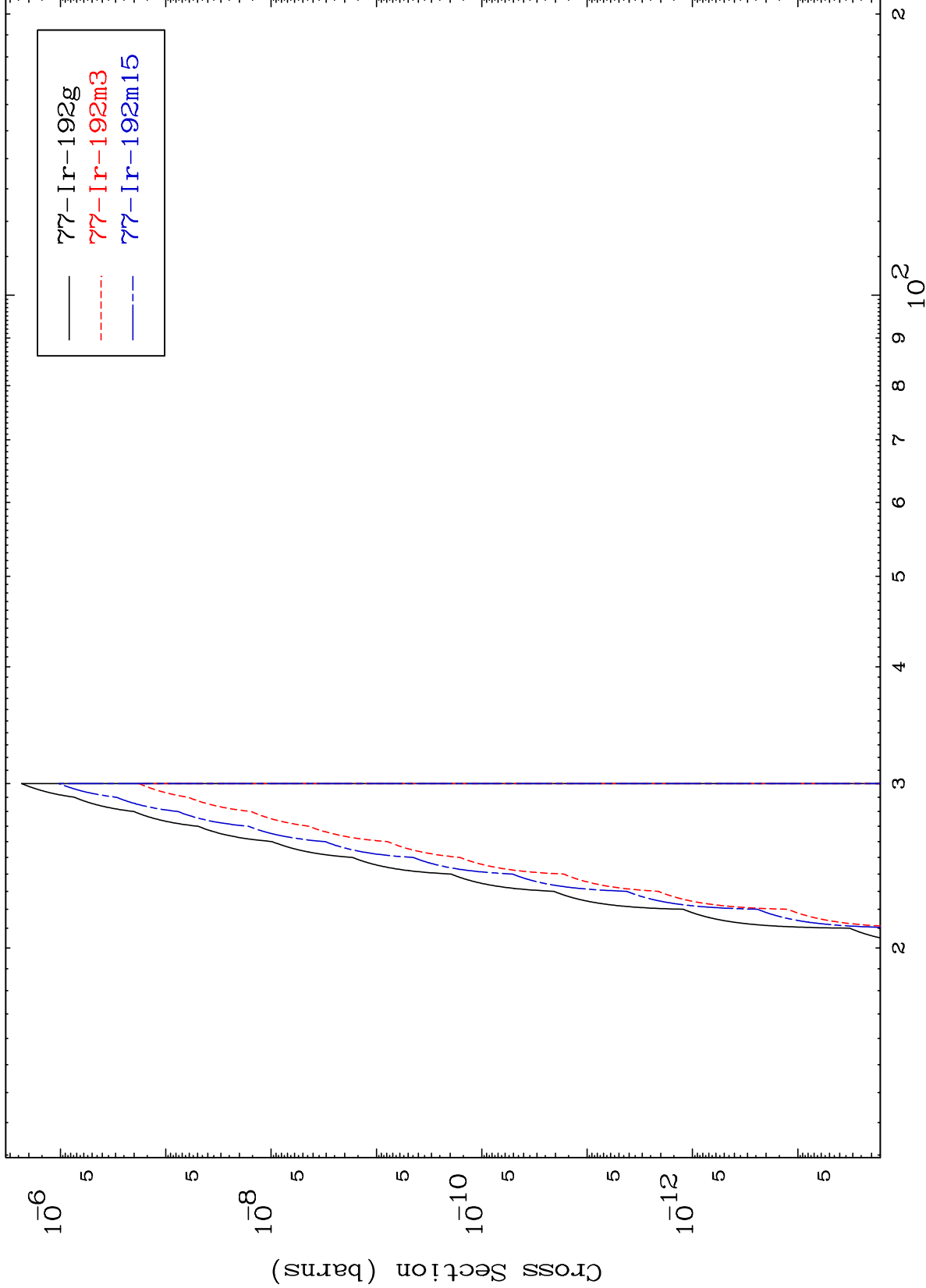
Incident Energy (MeV)

79-Au-195

Radionuclide Production Cross Section



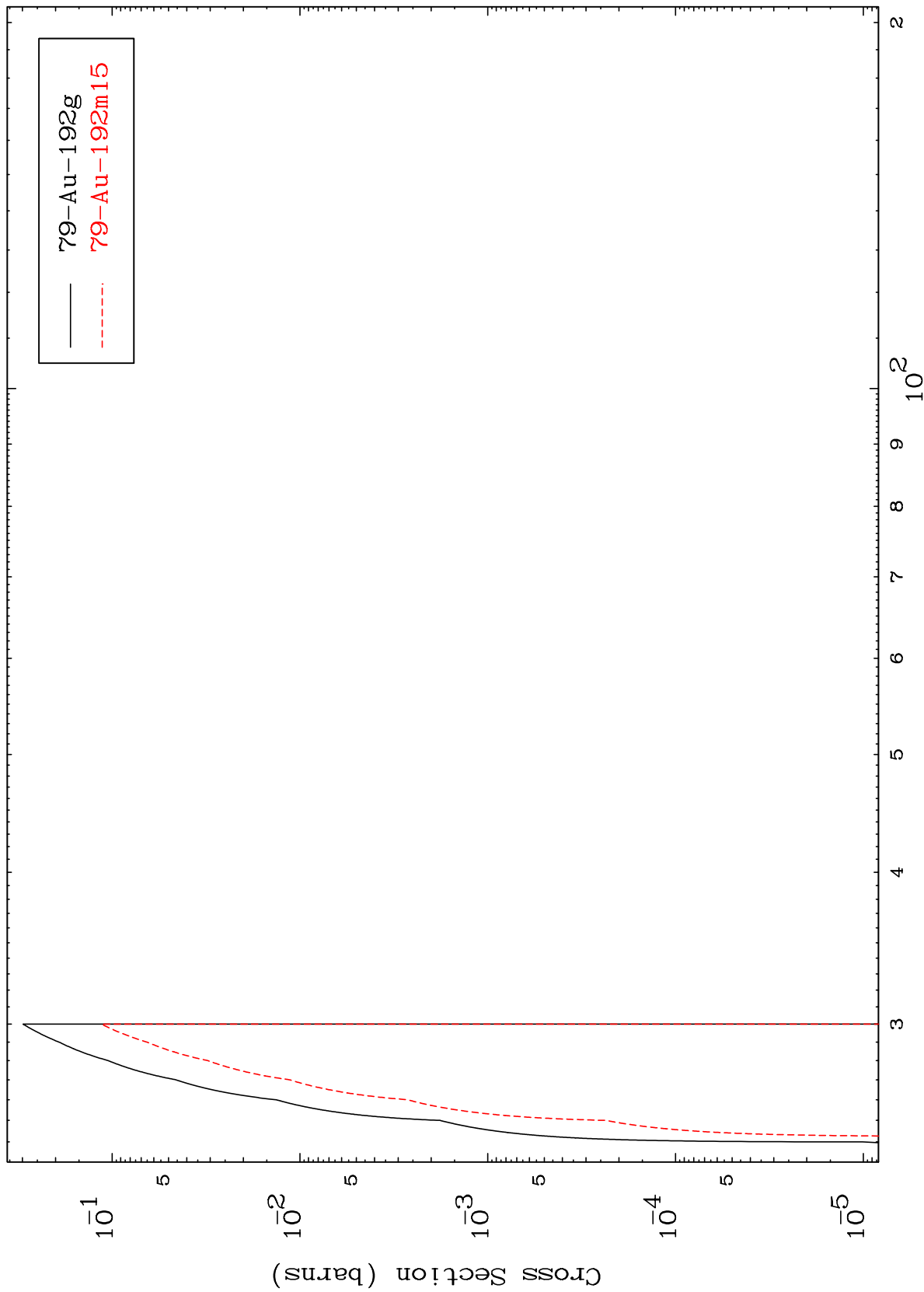
Radionuclide Production Cross Section



MAT 7920

79-Au-195

(n,4n)
Radionuclide Production Cross Section

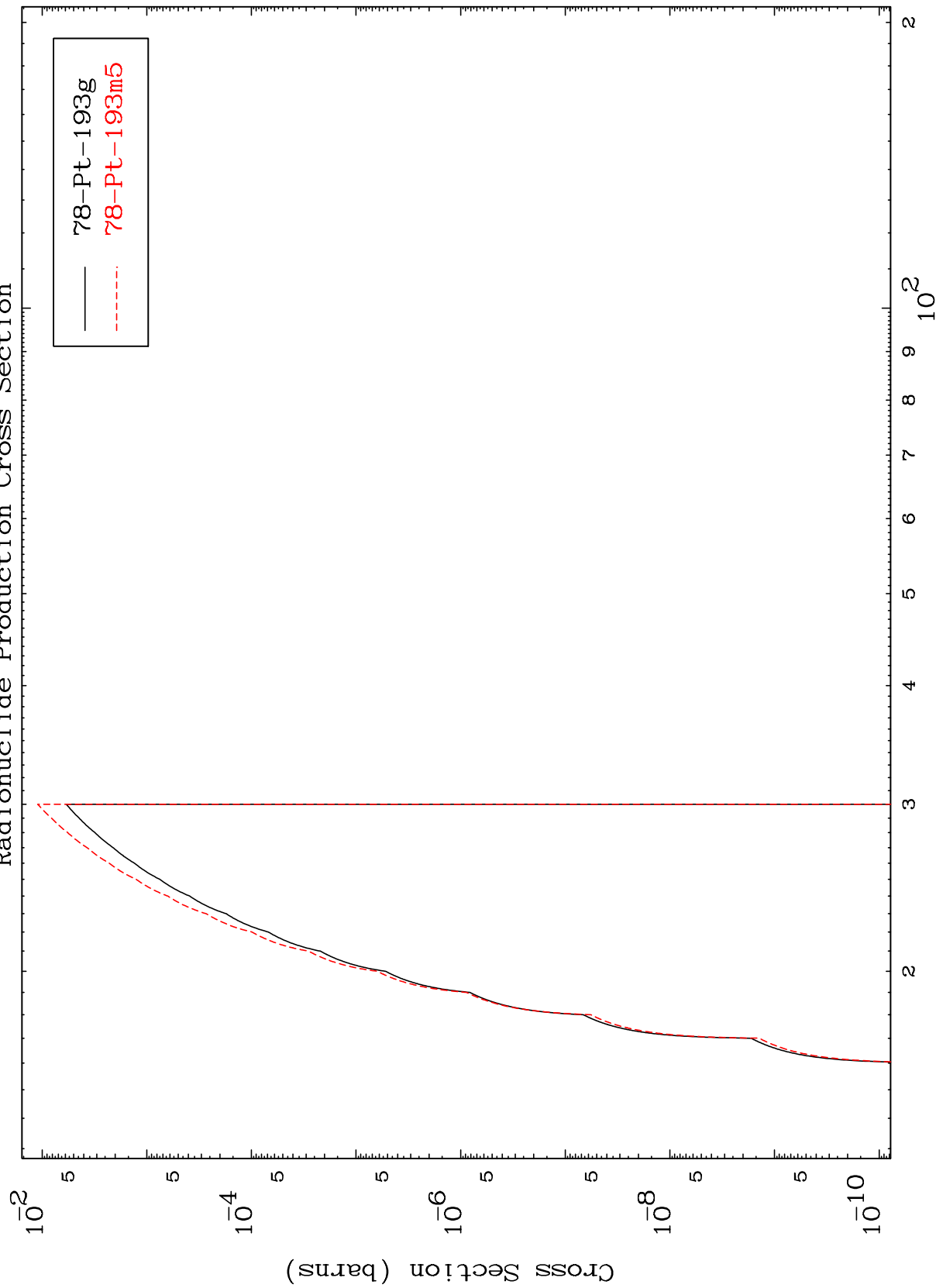


27

79-Au-195

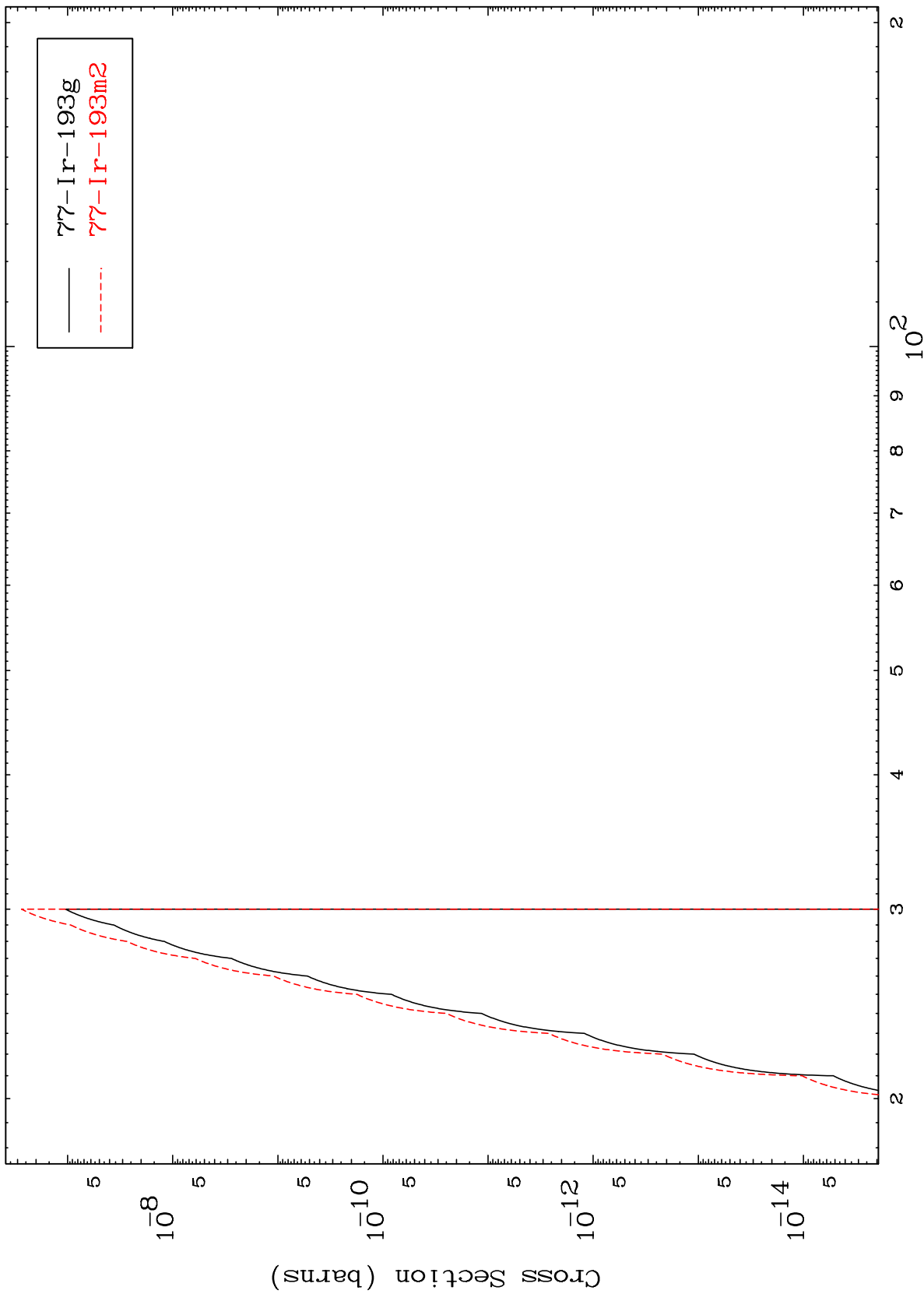
Incident Energy (MeV)

Radionuclide Production Cross Section



78-Pt-193g
78-Pt-193m5

Radionuclide Production Cross Section



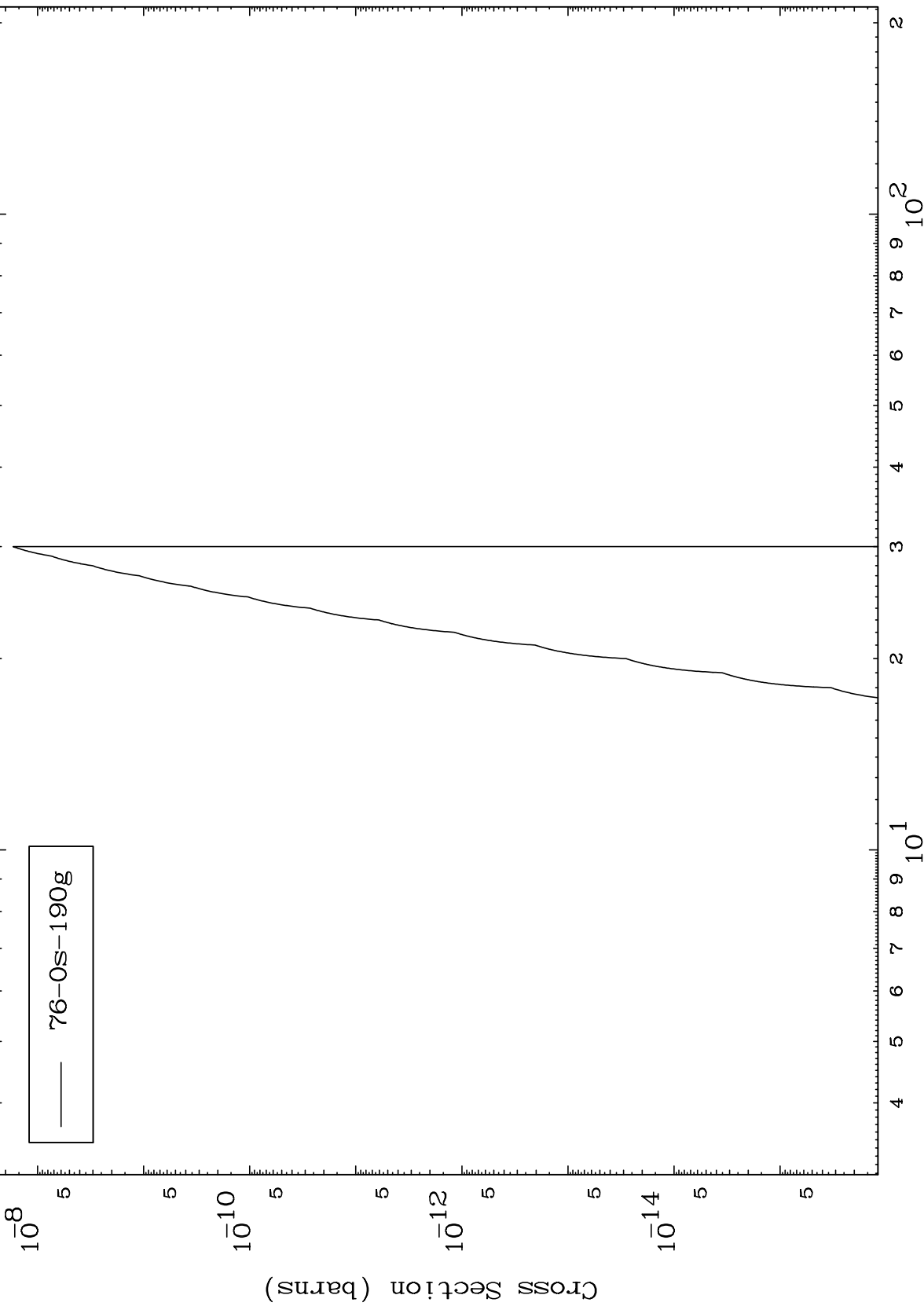
77-Ir-193g
77-Ir-193m2

MAT 7920

(n,n') p α

79-Au-195

Radionuclide Production Cross Section



30

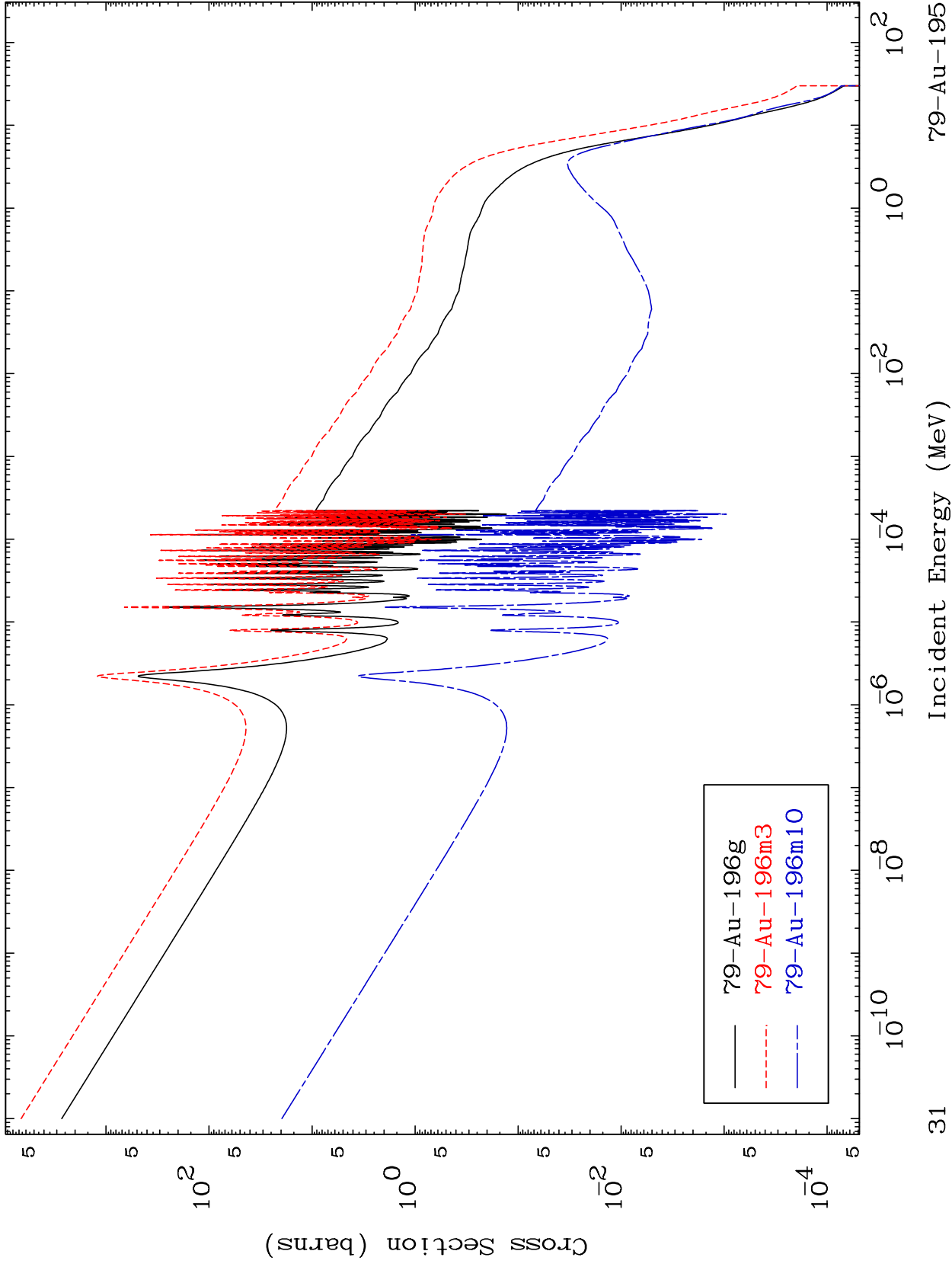
Incident Energy (MeV)

79-Au-195

MAT 7920

79-Au-195

(n, γ)
Radionuclide Production Cross Section

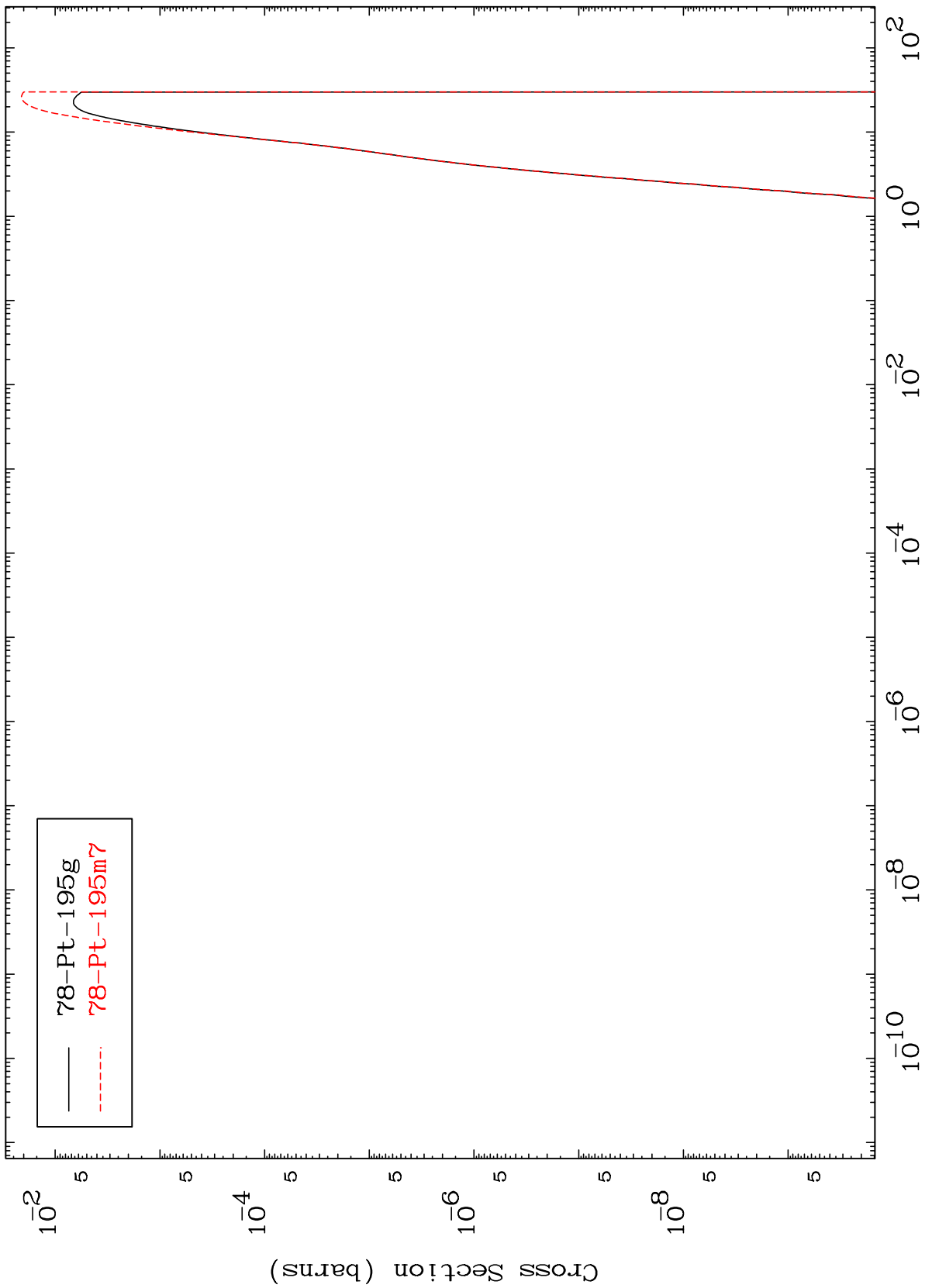


MAT 7920

(n,p)

79-Au-195

Radionuclide Production Cross Section



78-Pt-195g
78-Pt-195m7

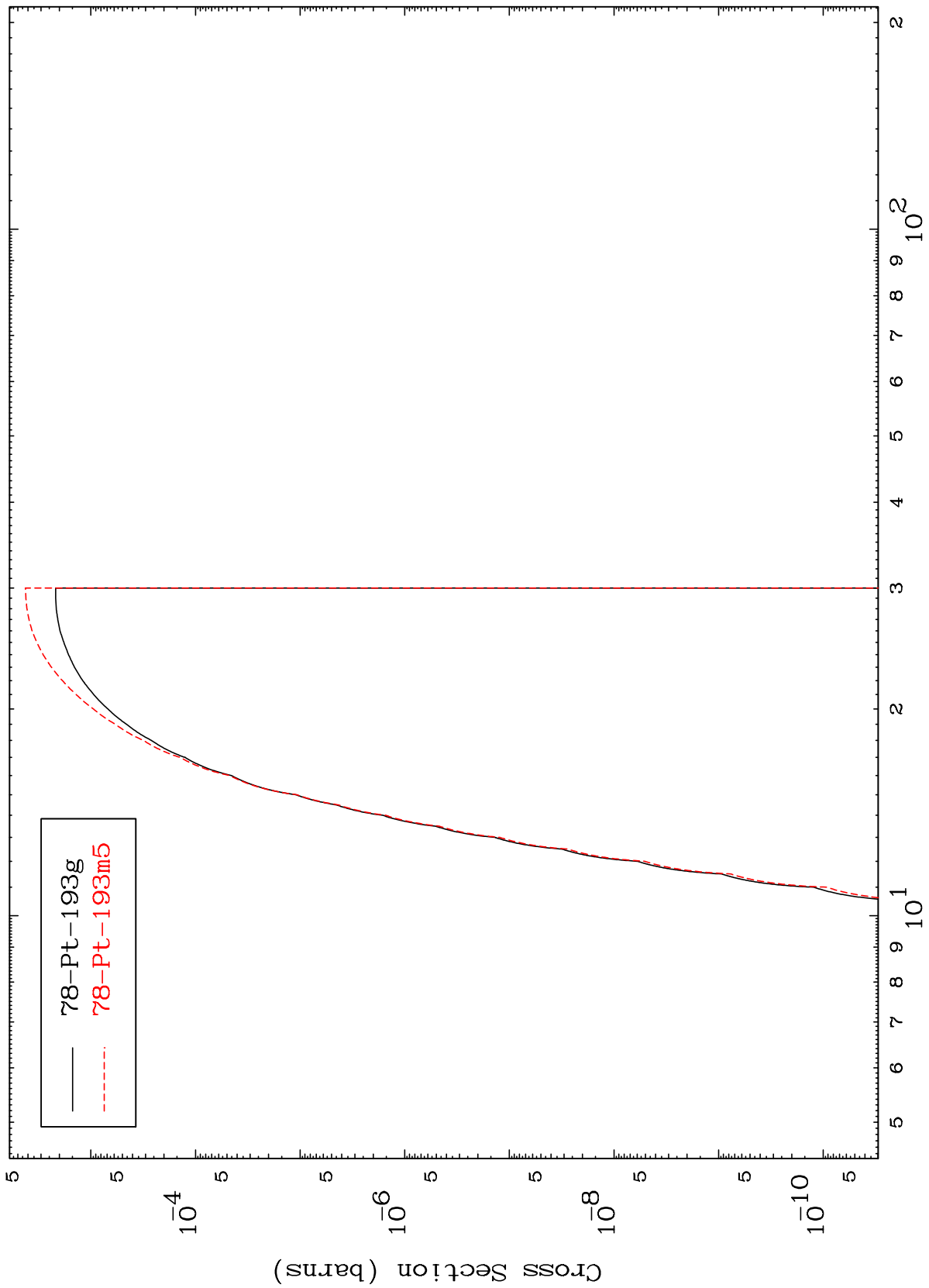
Incident Energy (MeV)

79-Au-195

MAT 7920

79-Au-195

(n, t)
Radionuclide Production Cross Section



78-Pt-193g
78-Pt-193m5

33

Incident Energy (MeV)

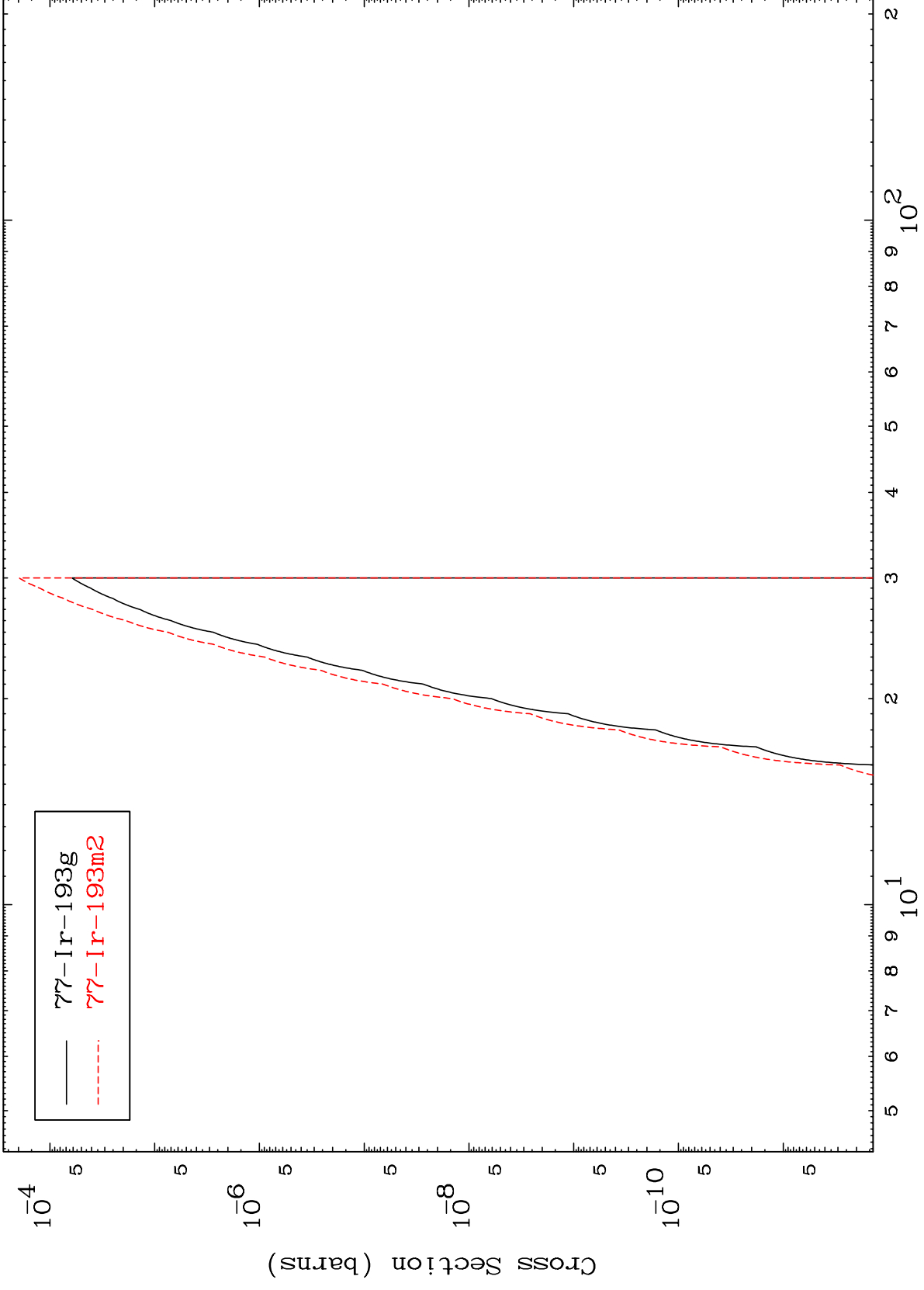
79-Au-195

MAT 7920

(n,He-3)

79-Au-195

Radionuclide Production Cross Section



34

Incident Energy (MeV)

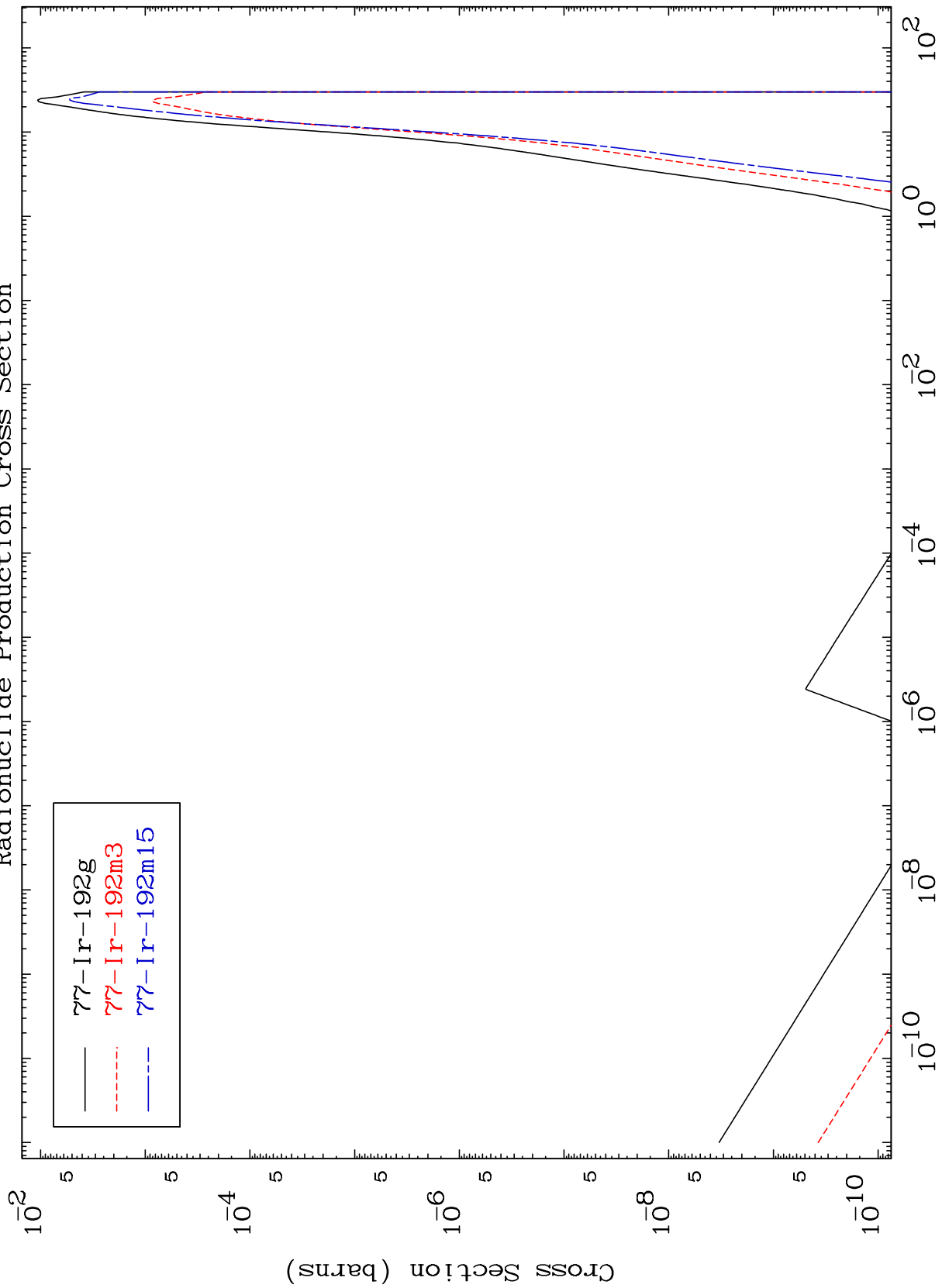
79-Au-195

MAT 7920

(n, α)

79-Au-195

Radionuclide Production Cross Section

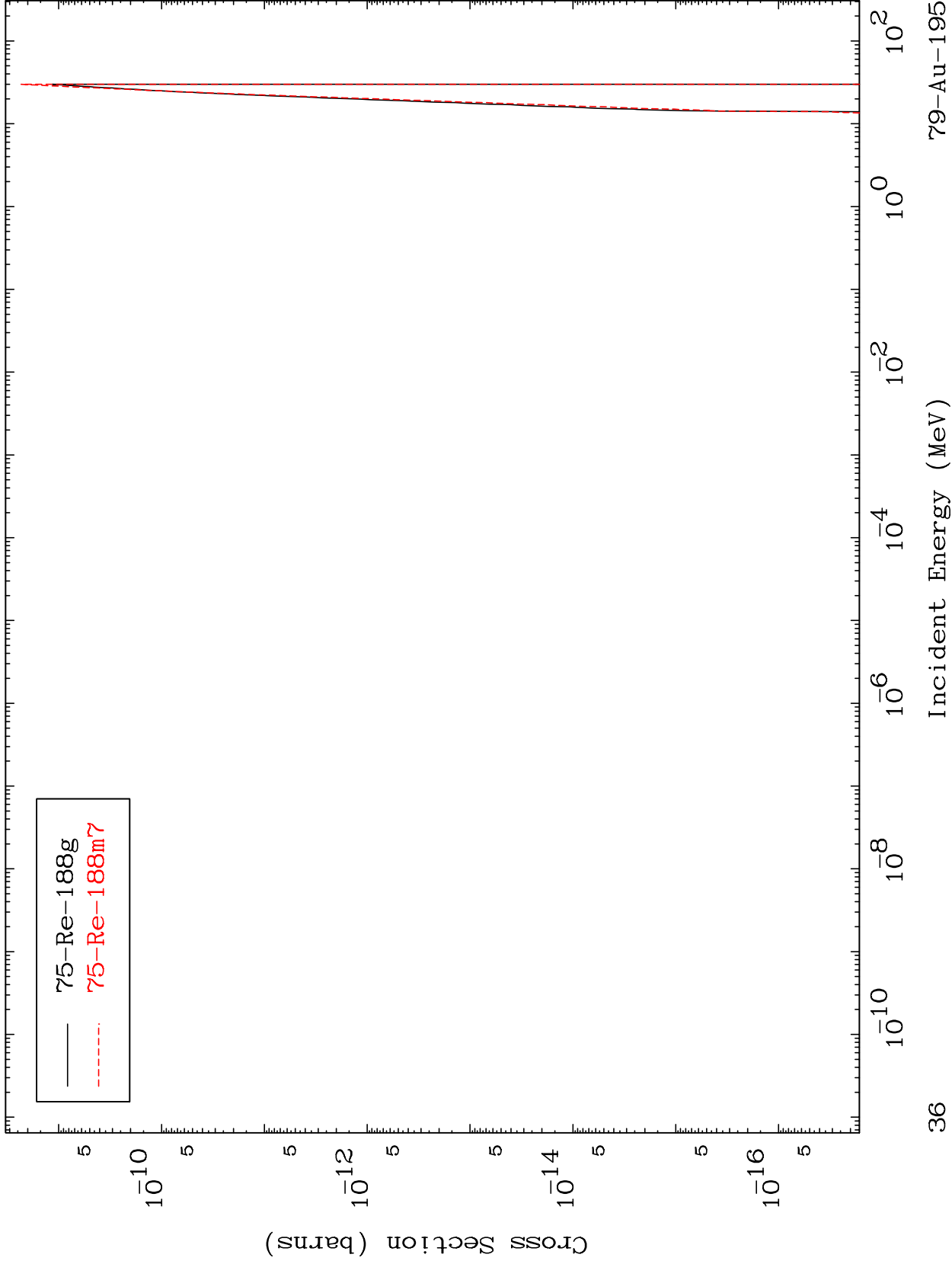


MAT 7920

(n,2α)

79-Au-195

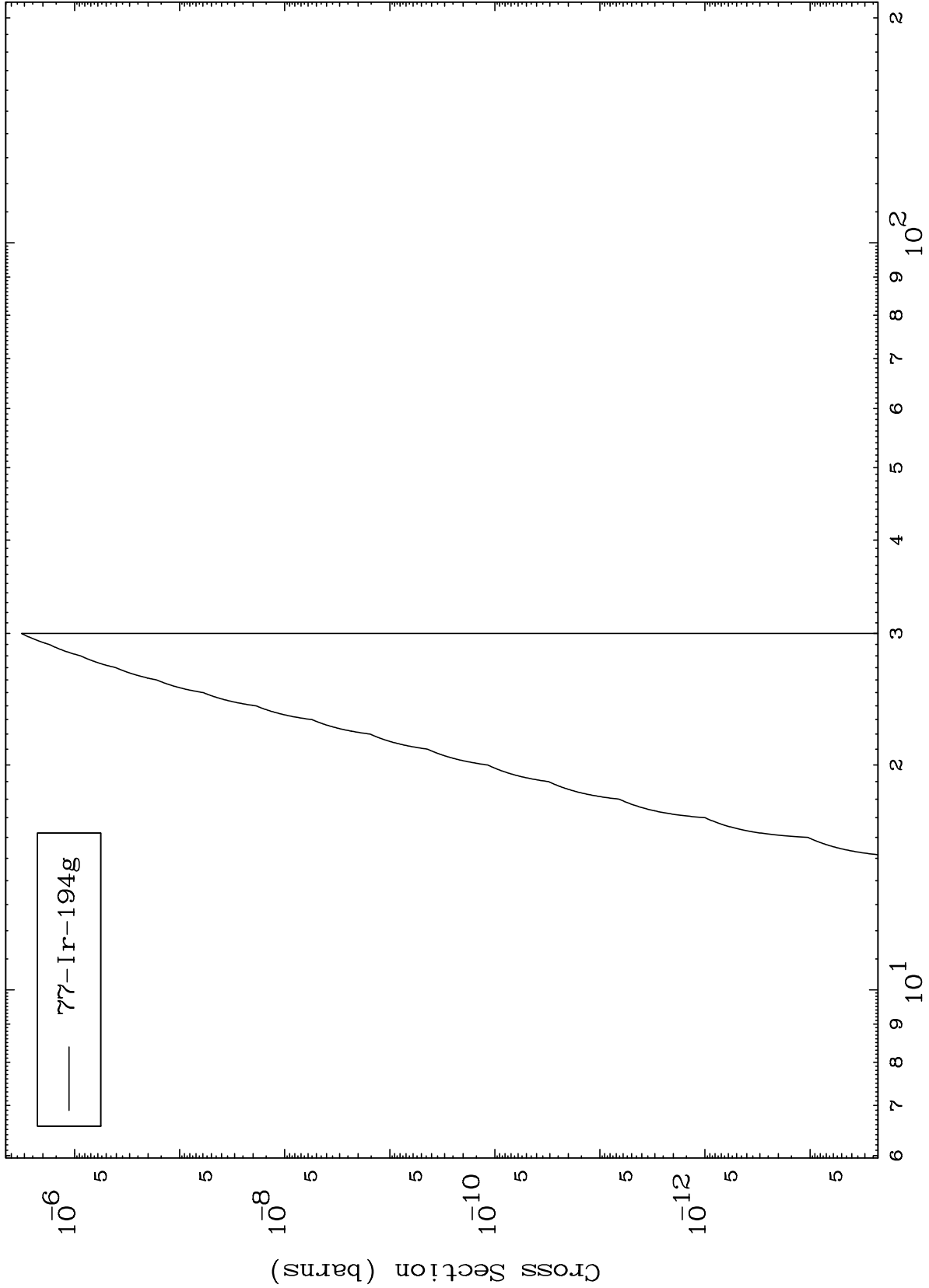
Radionuclide Production Cross Section



MAT 7920

79-Au-195

(n,2p)
Radionuclide Production Cross Section



37

Incident Energy (MeV)

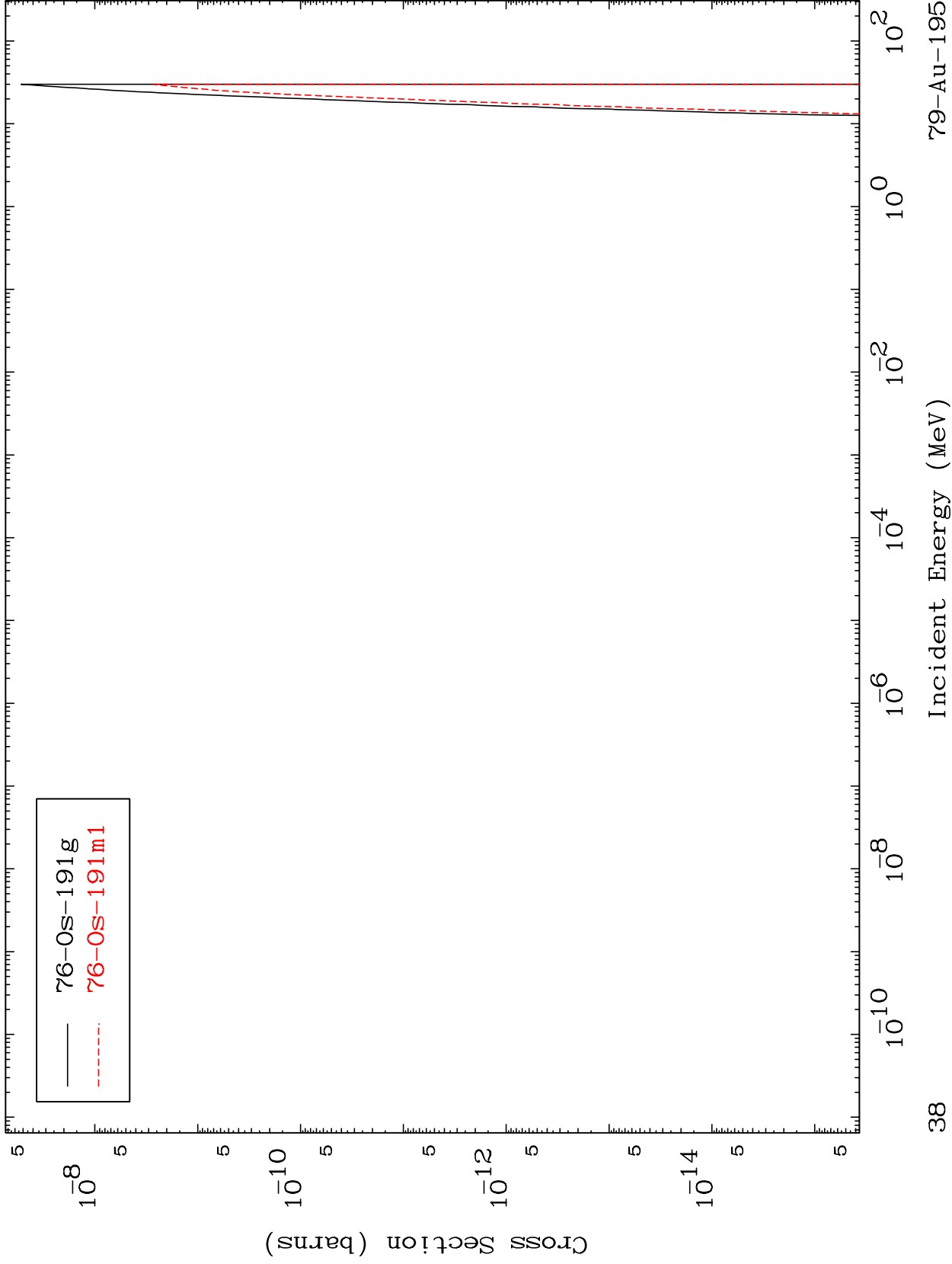
79-Au-195

MAT 7920

(n,p) α

⁷⁹Au-195

Radionuclide Production Cross Section

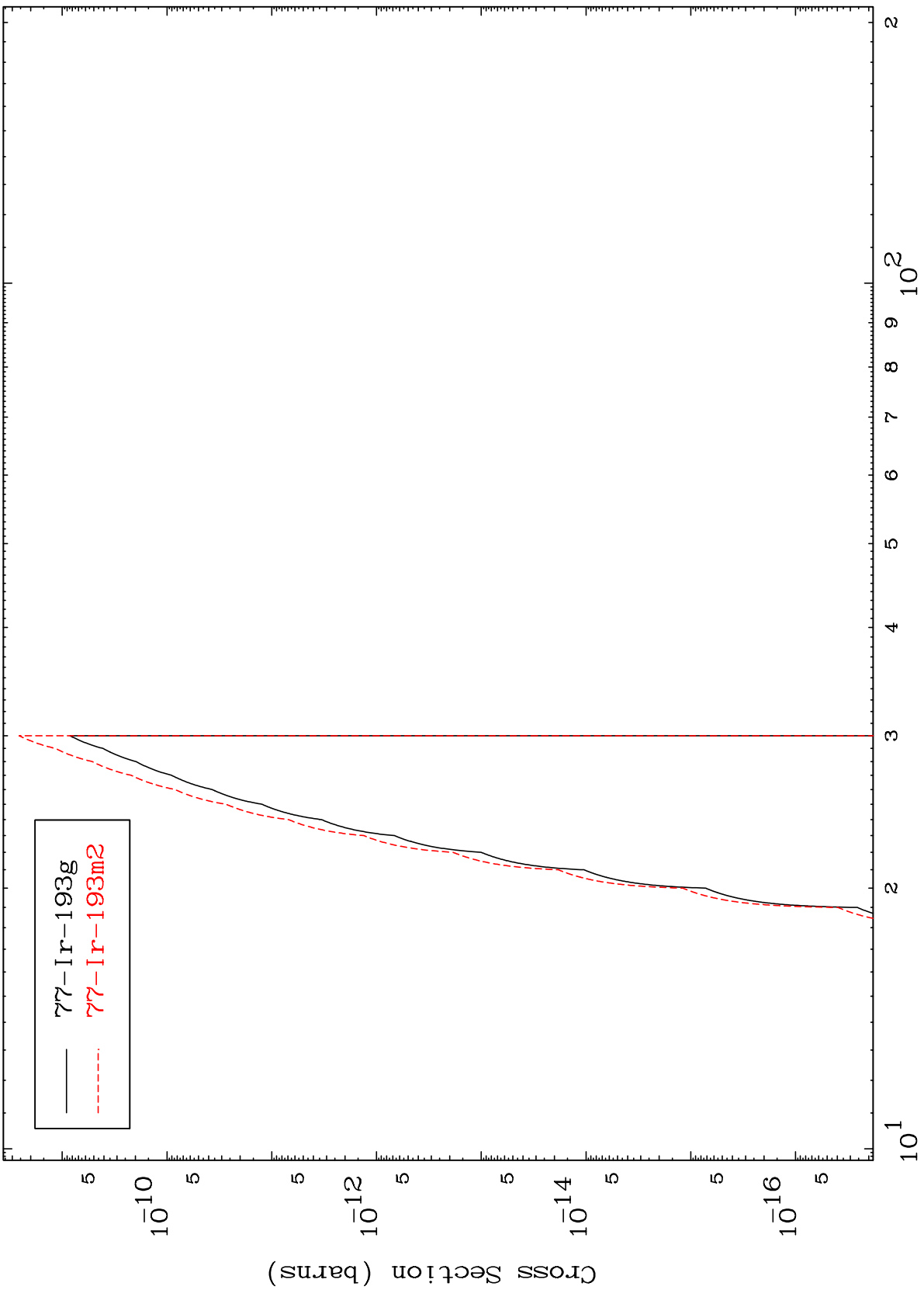


MAT 7920

(n,p) d

79-Au-195

Radionuclide Production Cross Section



39

Incident Energy (MeV)

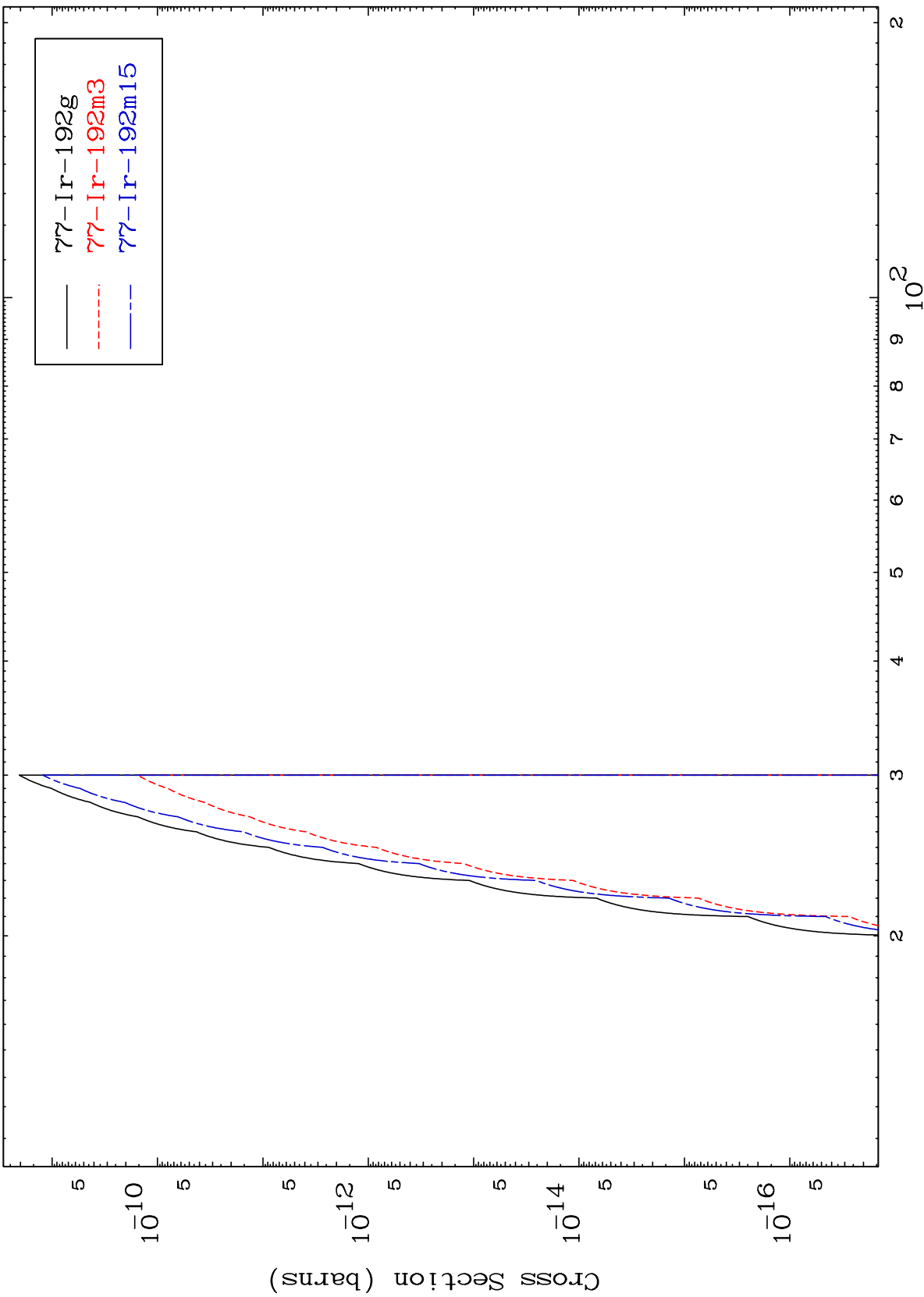
79-Au-195

MAT 7920

(n,p) t

79-Au-195

Radionuclide Production Cross Section



40

Incident Energy (MeV)

79-Au-195