

Program EVALPLOT
(Version 2021-1)

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

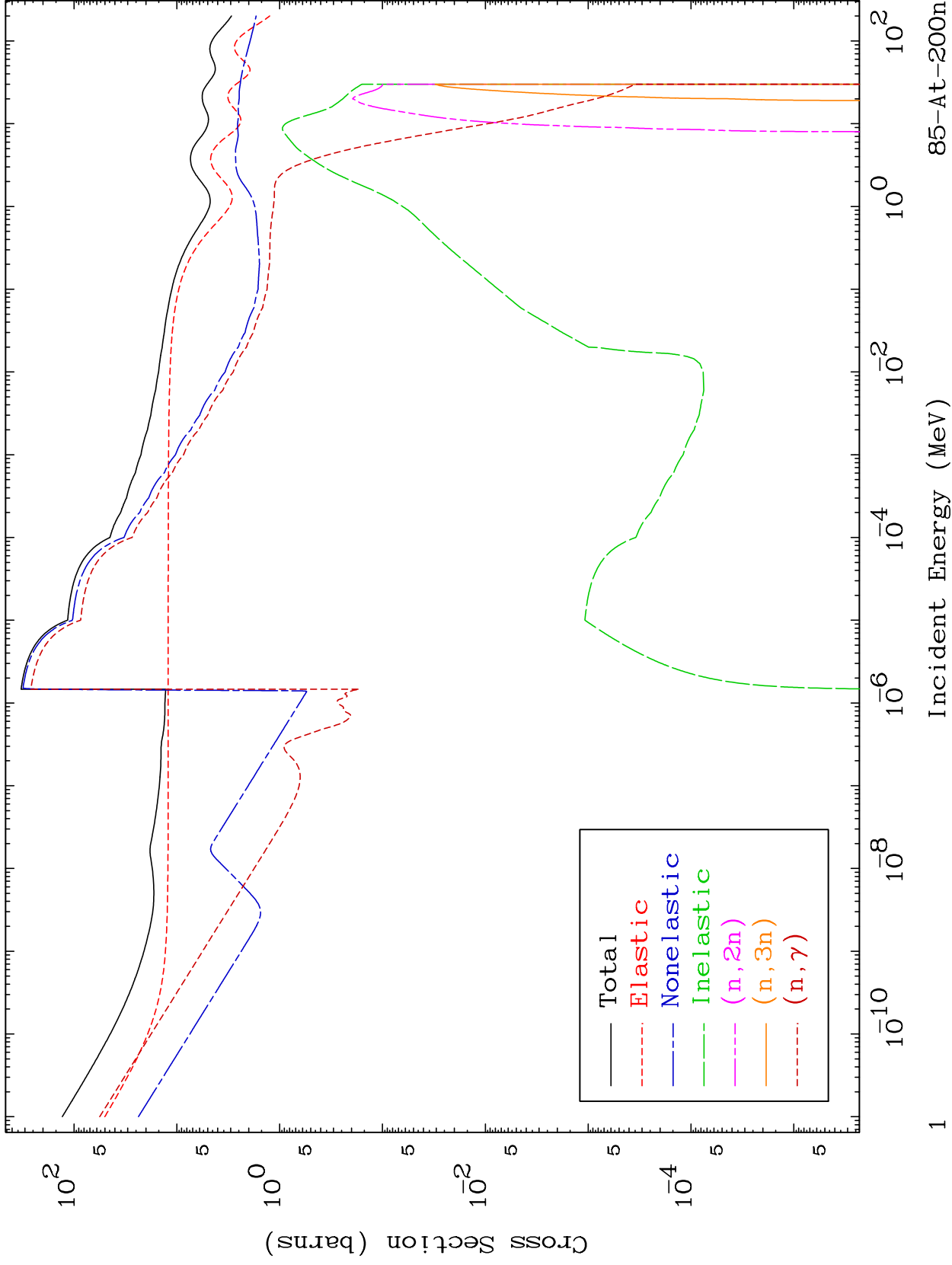
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8518

Neutron Major
293 Kelvin Cross Sections

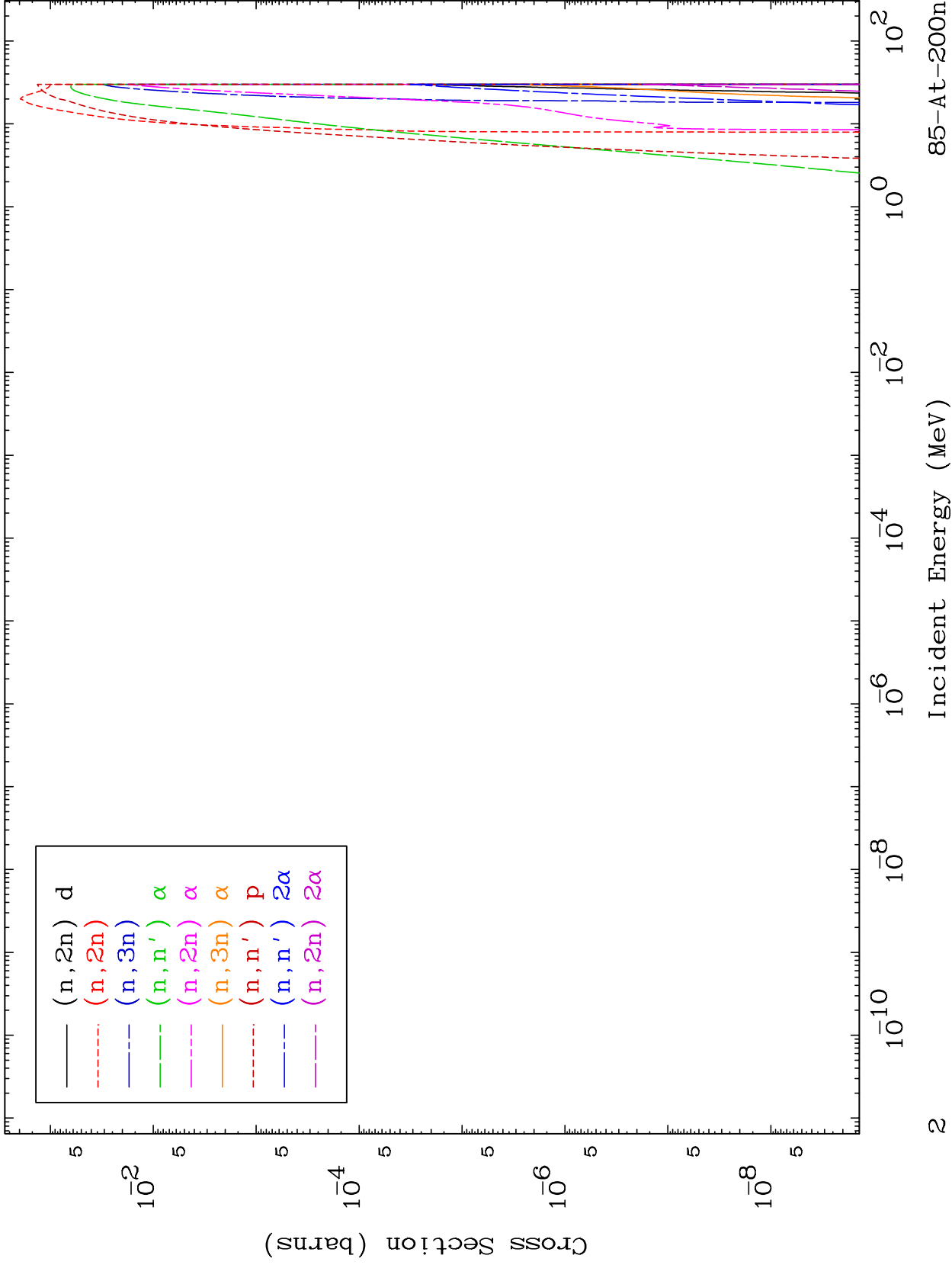
85-At-200n



MAT 8518

Neutron Absorption
293 Kelvin Cross Sections

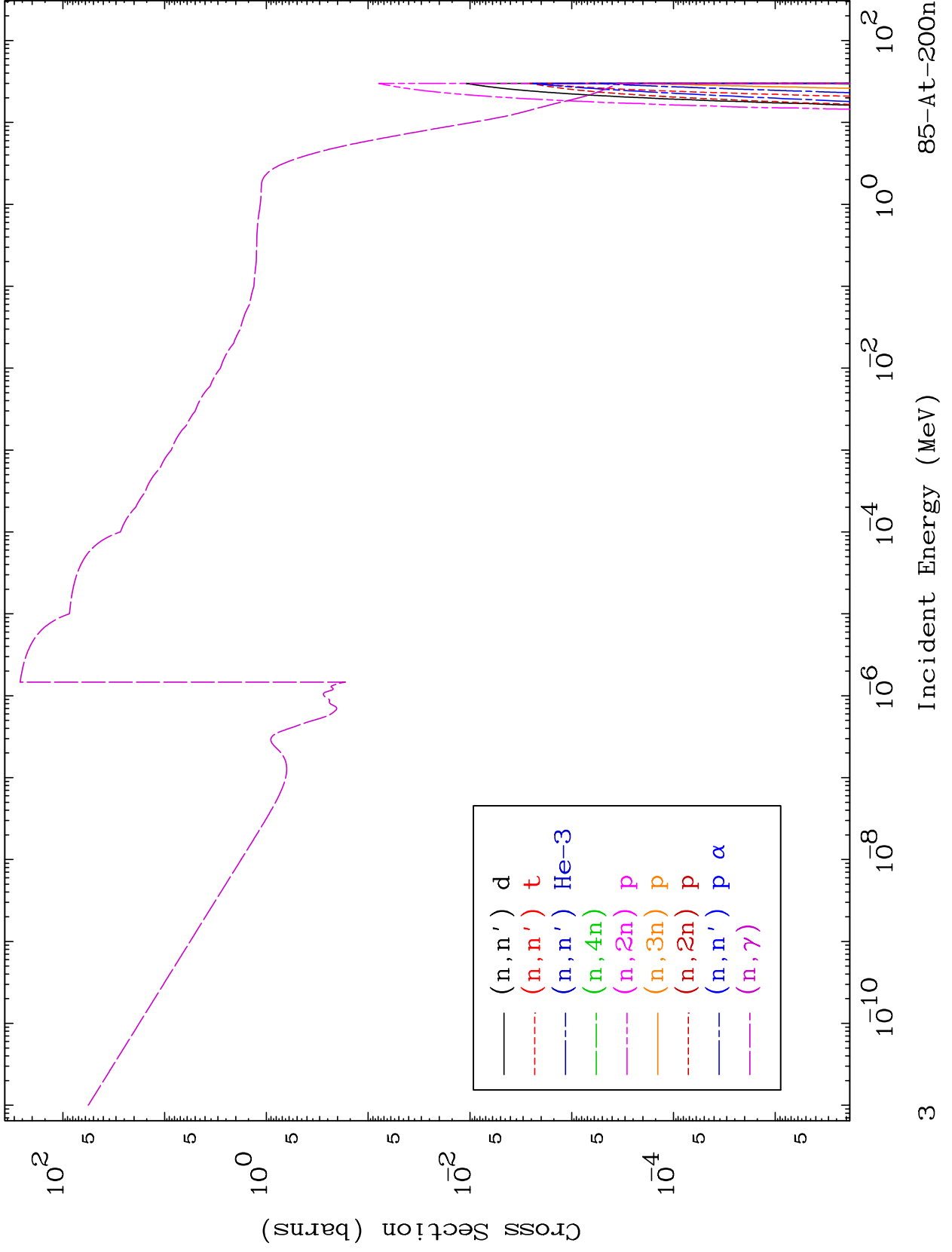
85-At-200n



MAT 8518

Neutron Absorption
293 Kelvin Cross Sections

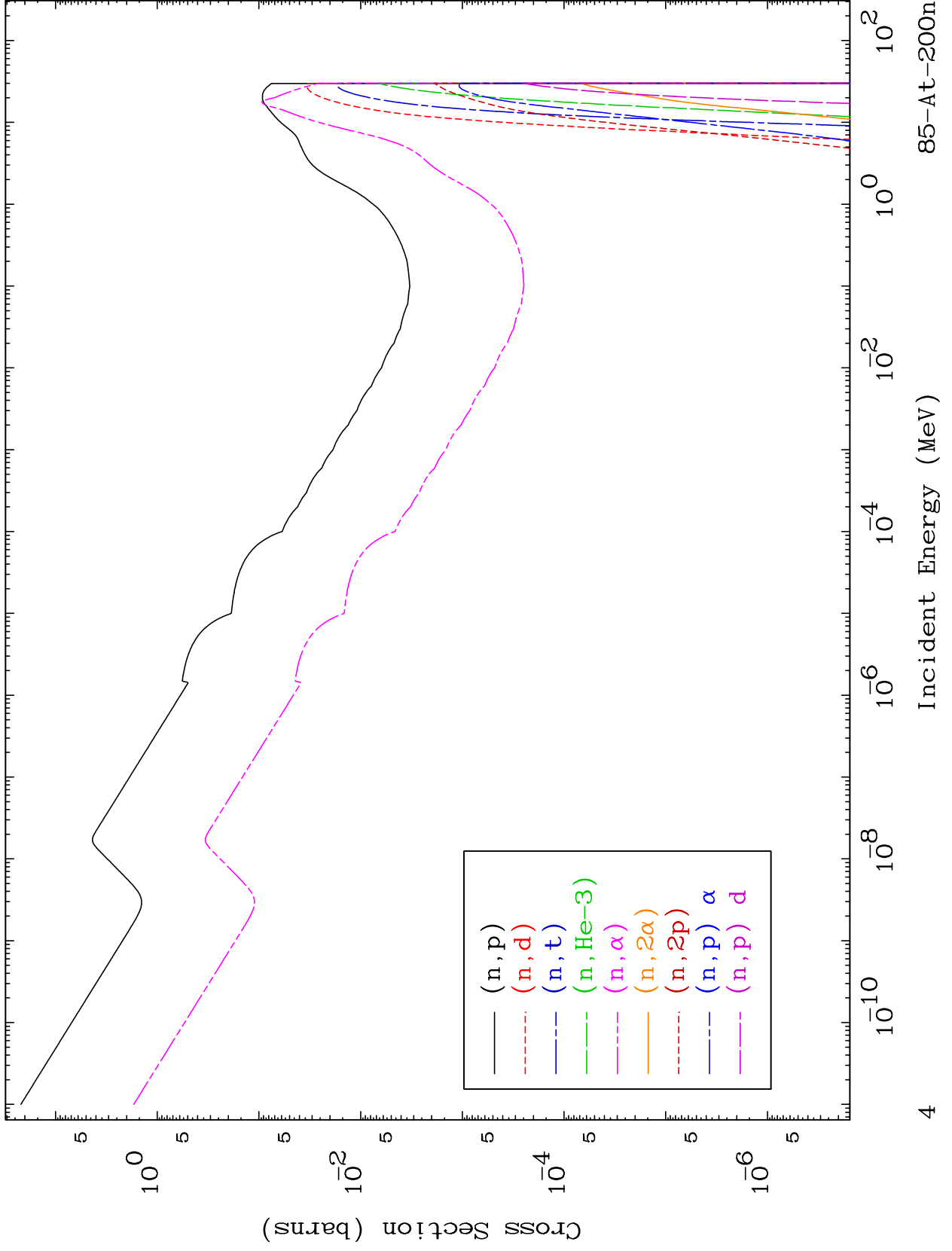
85-At-200n



MAT 8518

Neutron Absorption
293 Kelvin Cross Sections

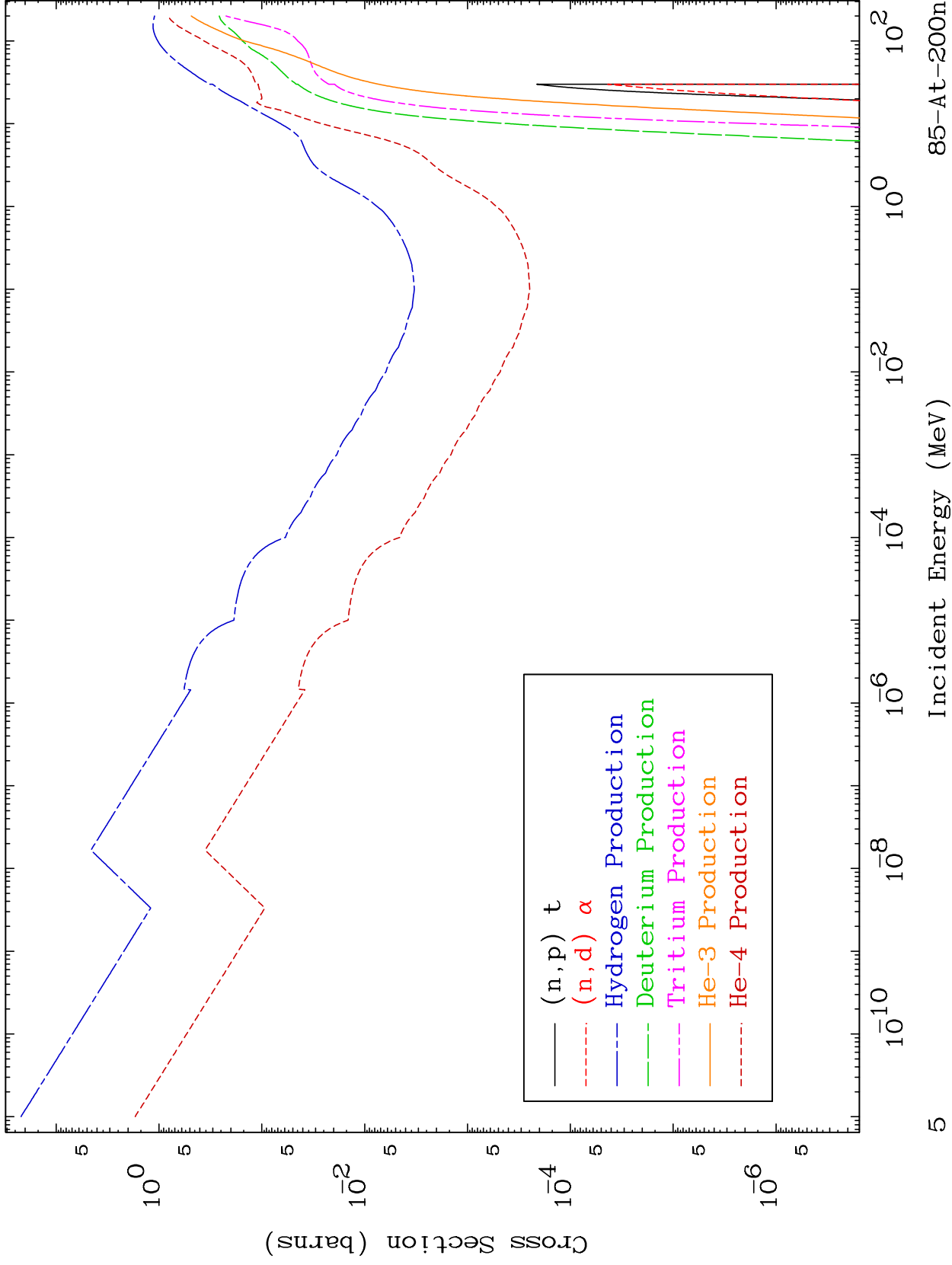
85-At-200n



MAT 8518

Neutron Absorption
293 Kelvin Cross Sections

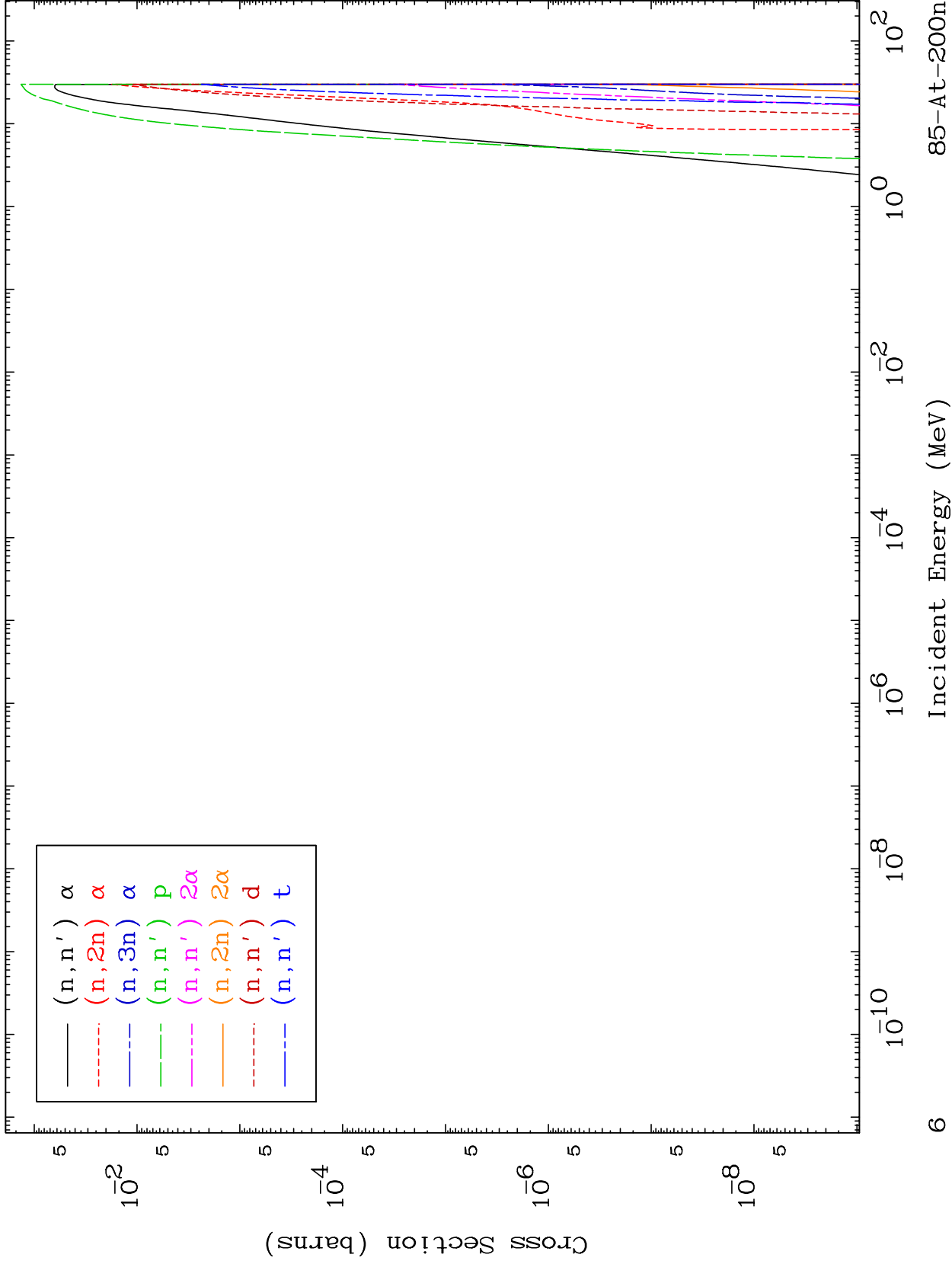
85-At-200n

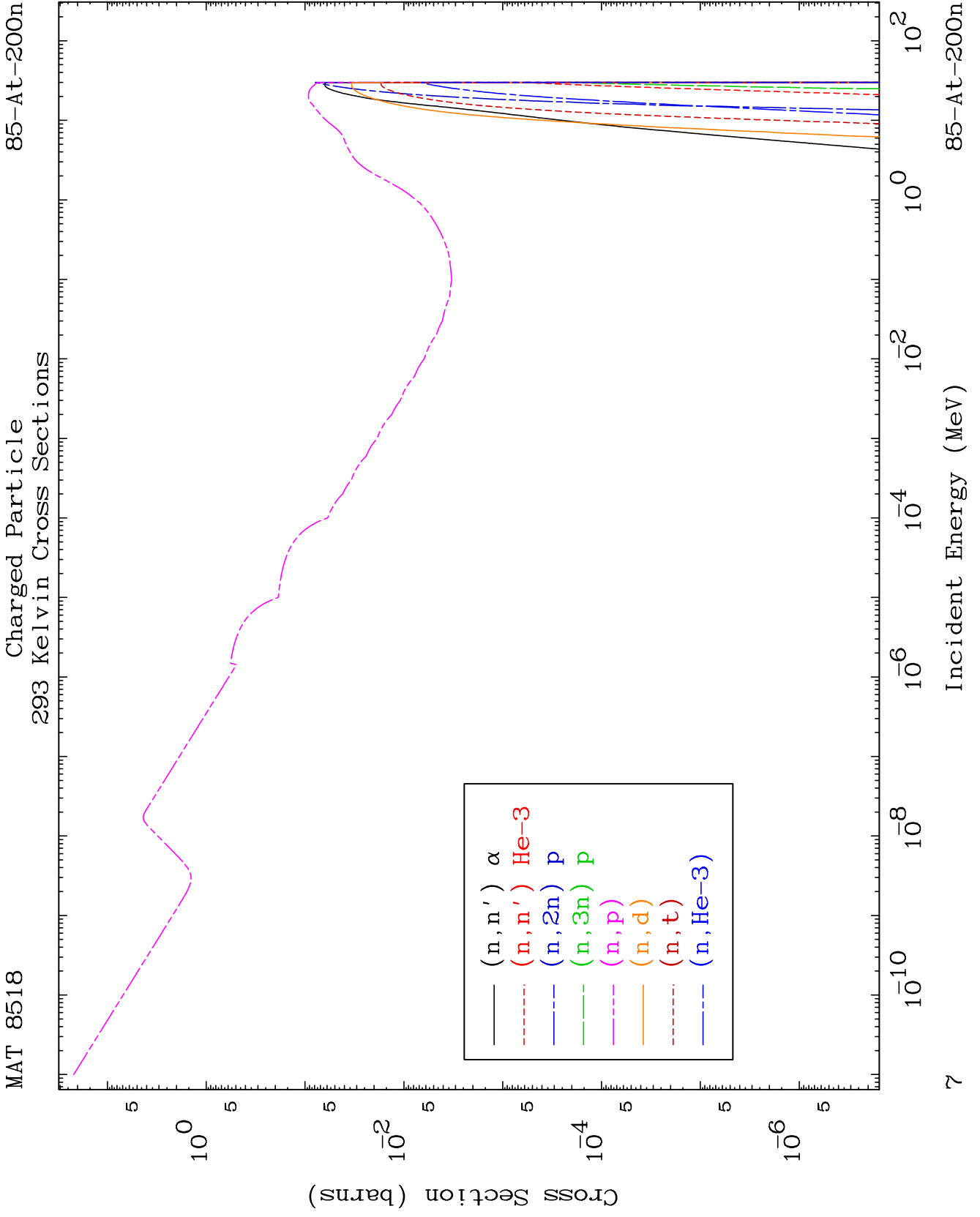


MAT 8518

Charged Particle
293 Kelvin Cross Sections

85-At-200n

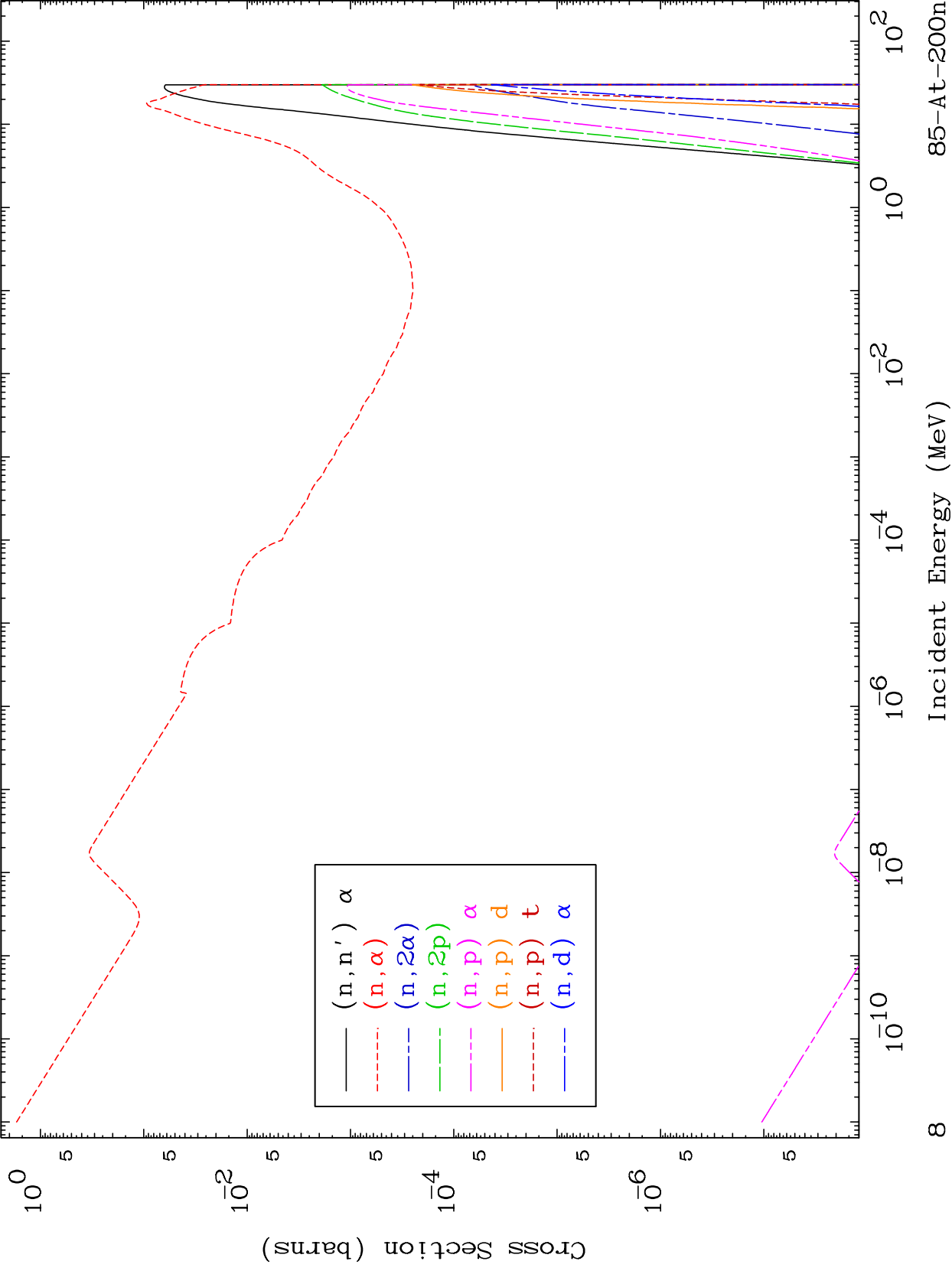




MAT 8518

Charged Particle
293 Kelvin Cross Sections

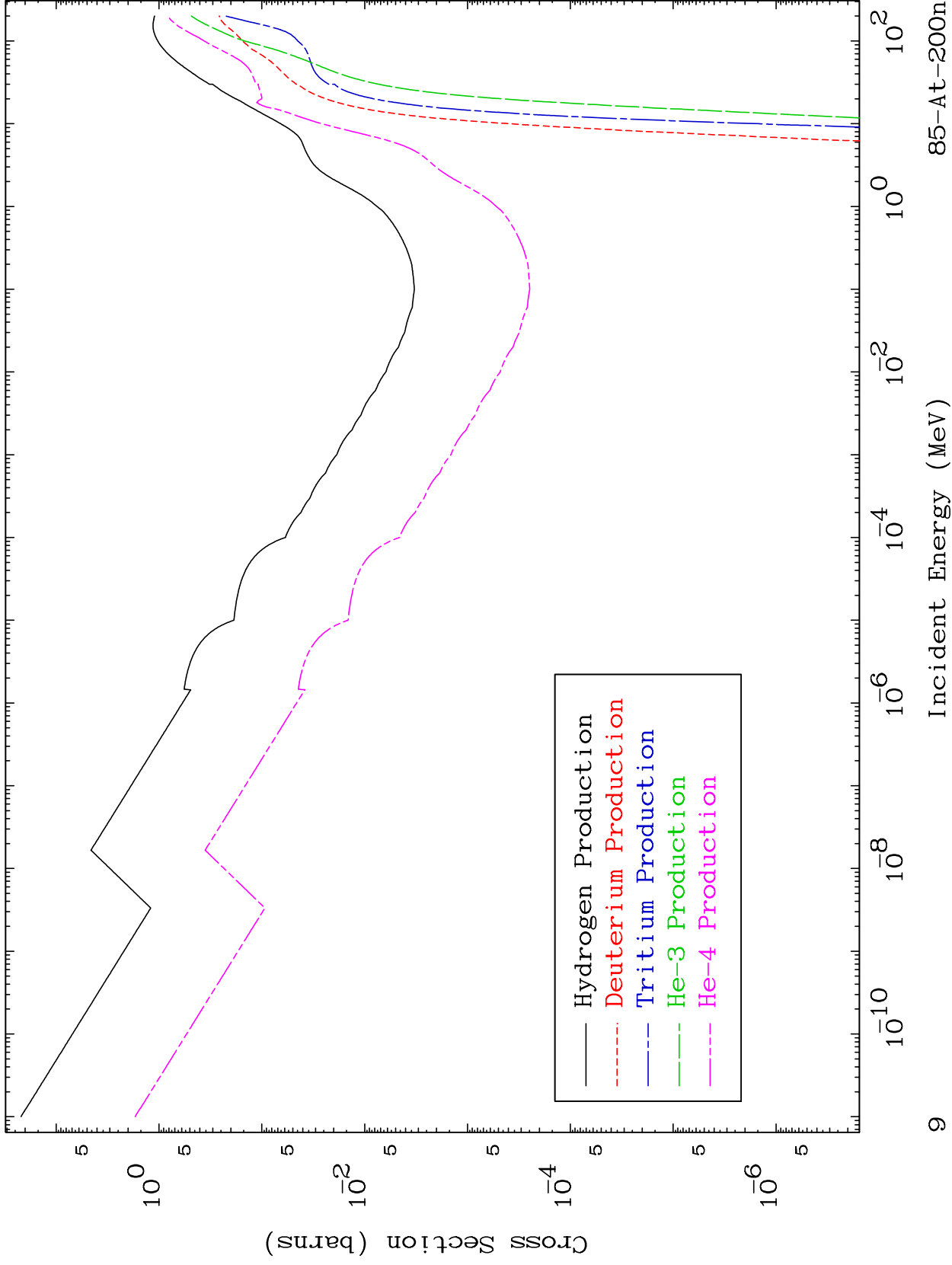
85-At-200n

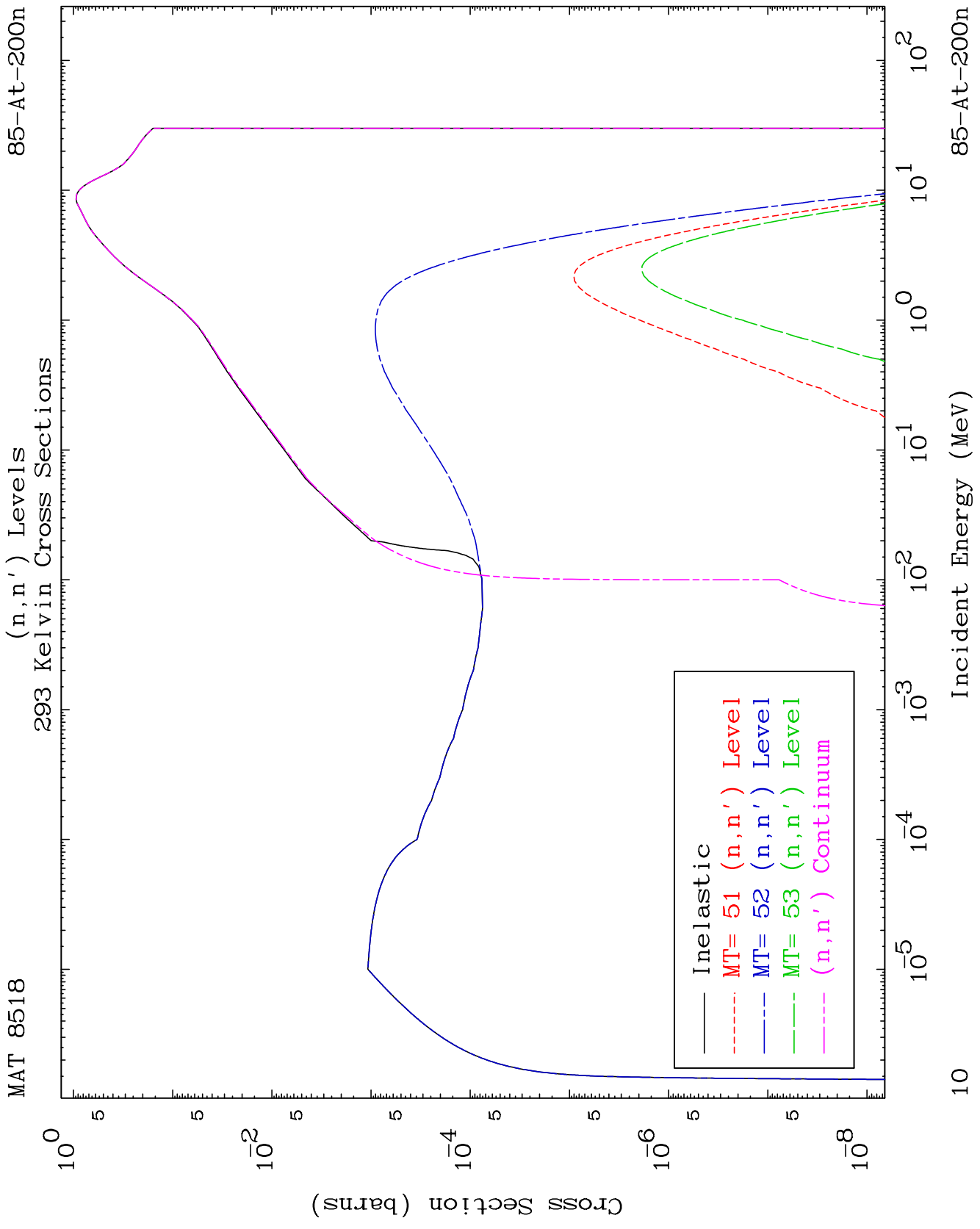


MAT 8518

Particle Production
293 Kelvin Cross Sections

85-At-200n

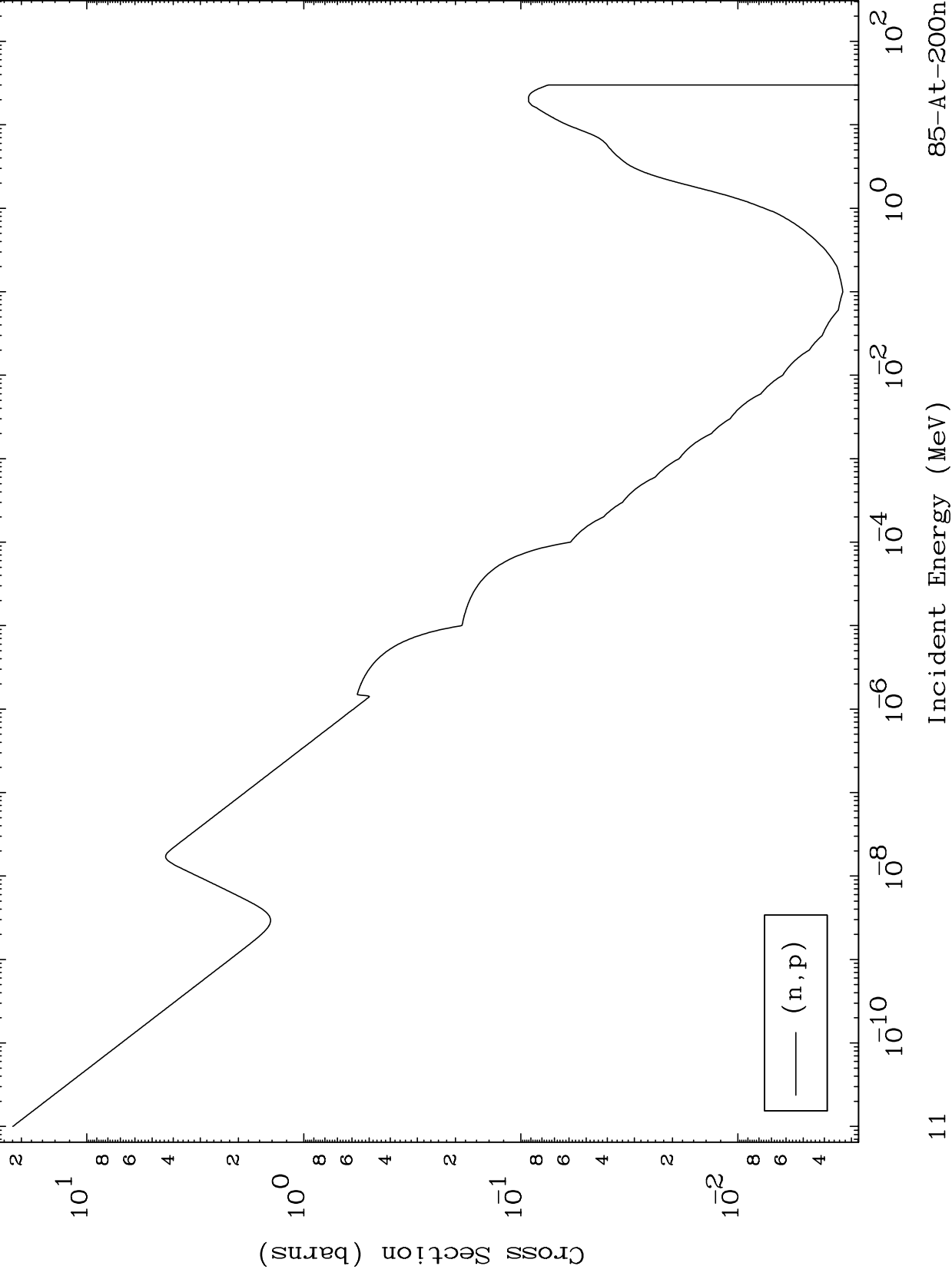




MAT 8518

(n,p) Levels
293 Kelvin Cross Sections

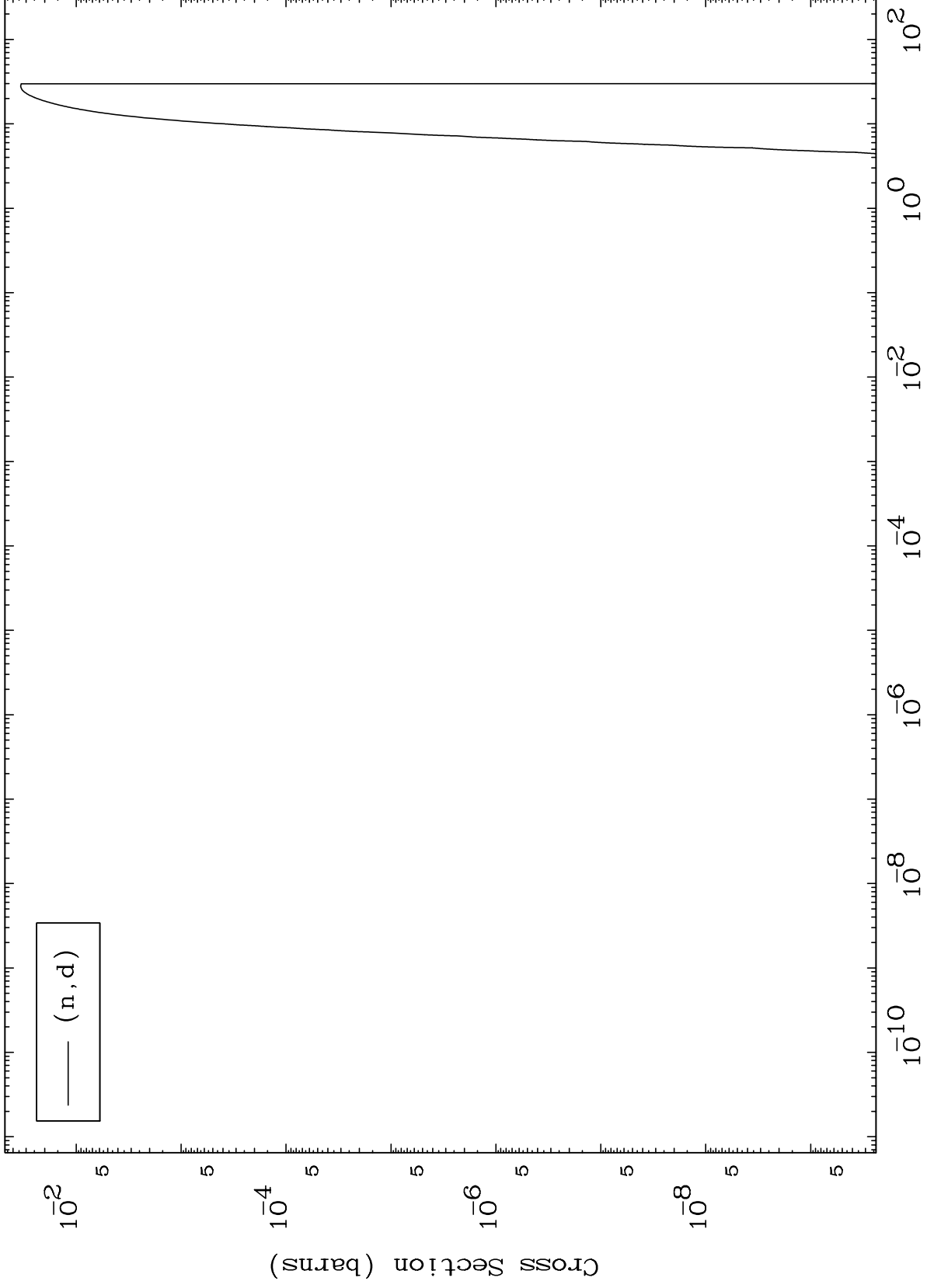
85-At-200n



MAT 8518

(n,d) Levels
293 Kelvin Cross Sections

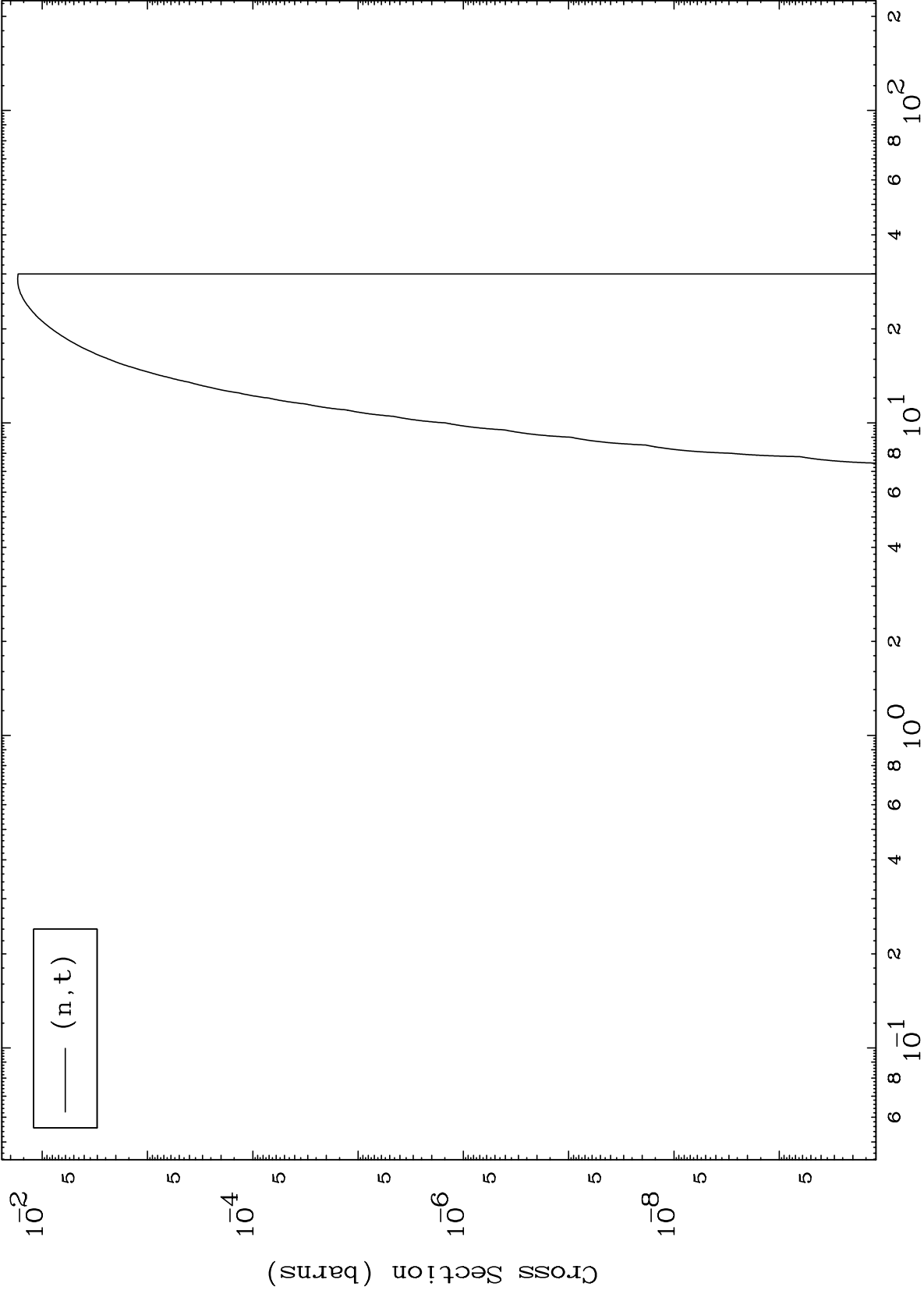
85-At-200n



MAT 8518

(n,t) Levels
293 Kelvin Cross Sections

85-At-200n



13

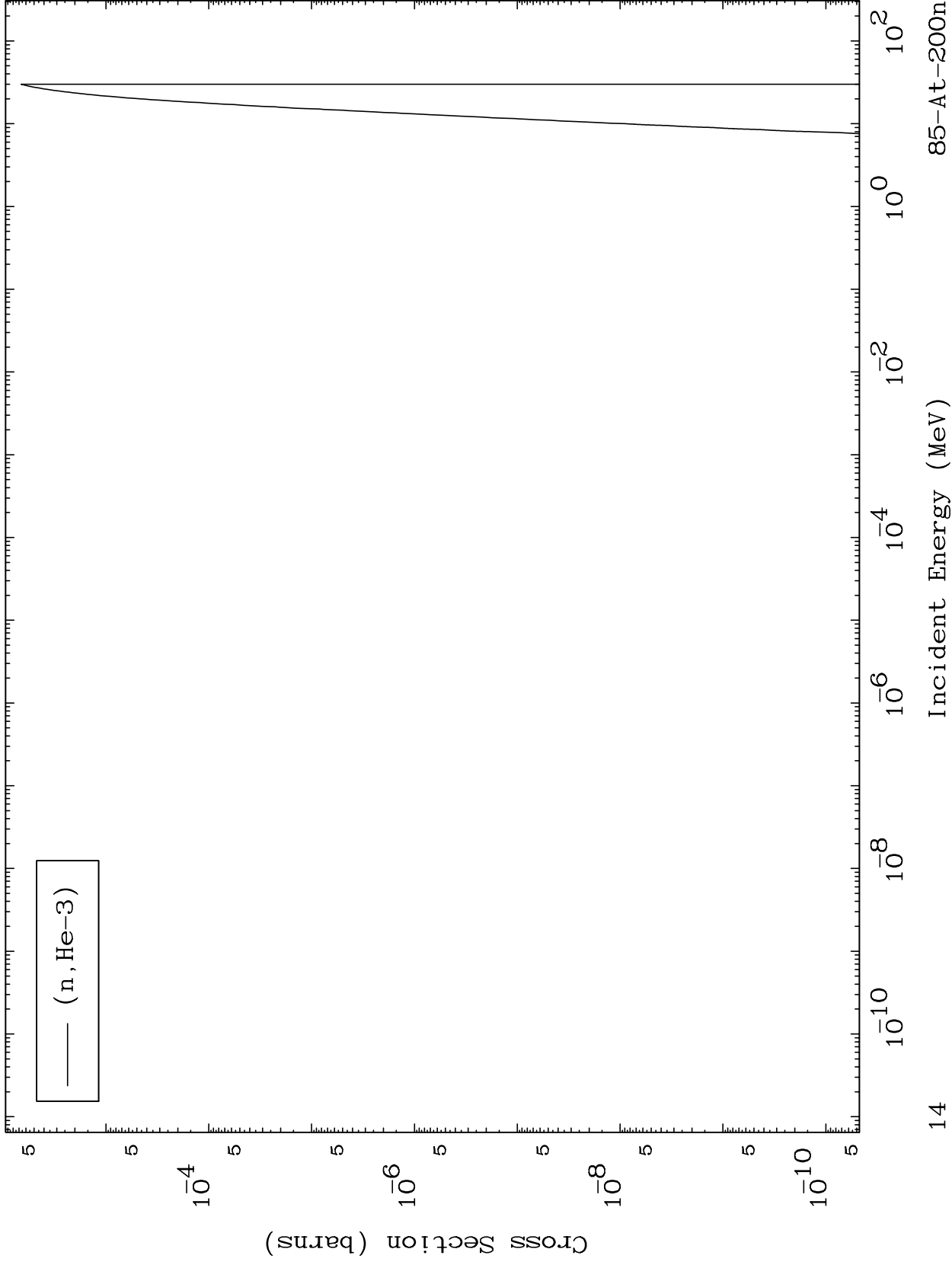
Incident Energy (MeV)

85-At-200n

MAT 8518

(n,He3) Levels
293 Kelvin Cross Sections

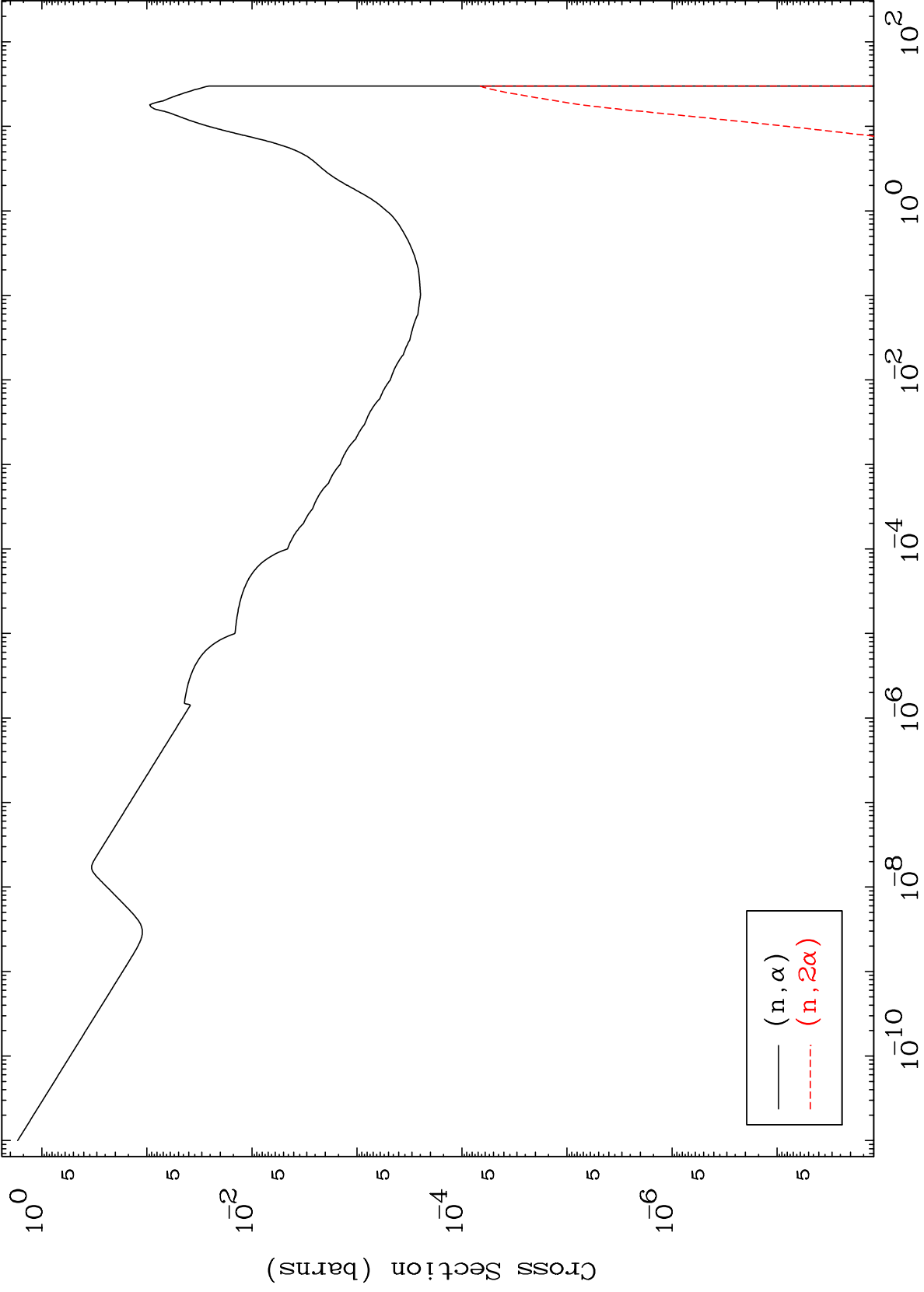
85-At-200n



MAT 8518

(n, α) Levels
293 Kelvin Cross Sections

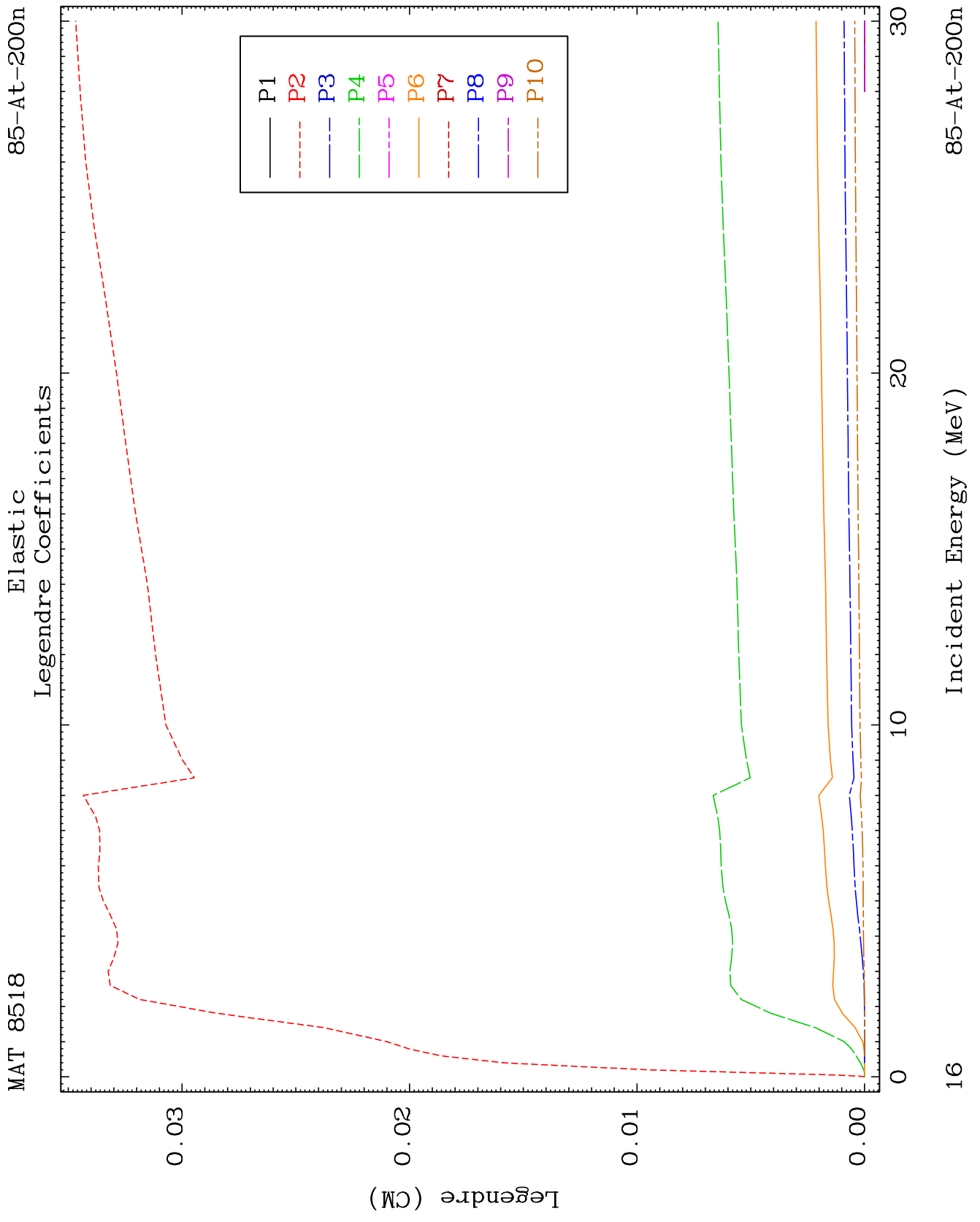
85-At-200n



15

Incident Energy (MeV)

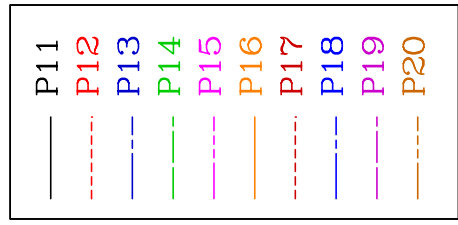
85-At-200n



MAT 8518

Elastic Legendre Coefficients

85-At-200n



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

Legendre (CM)

1.0
0.5
0.0

5

10

15

20

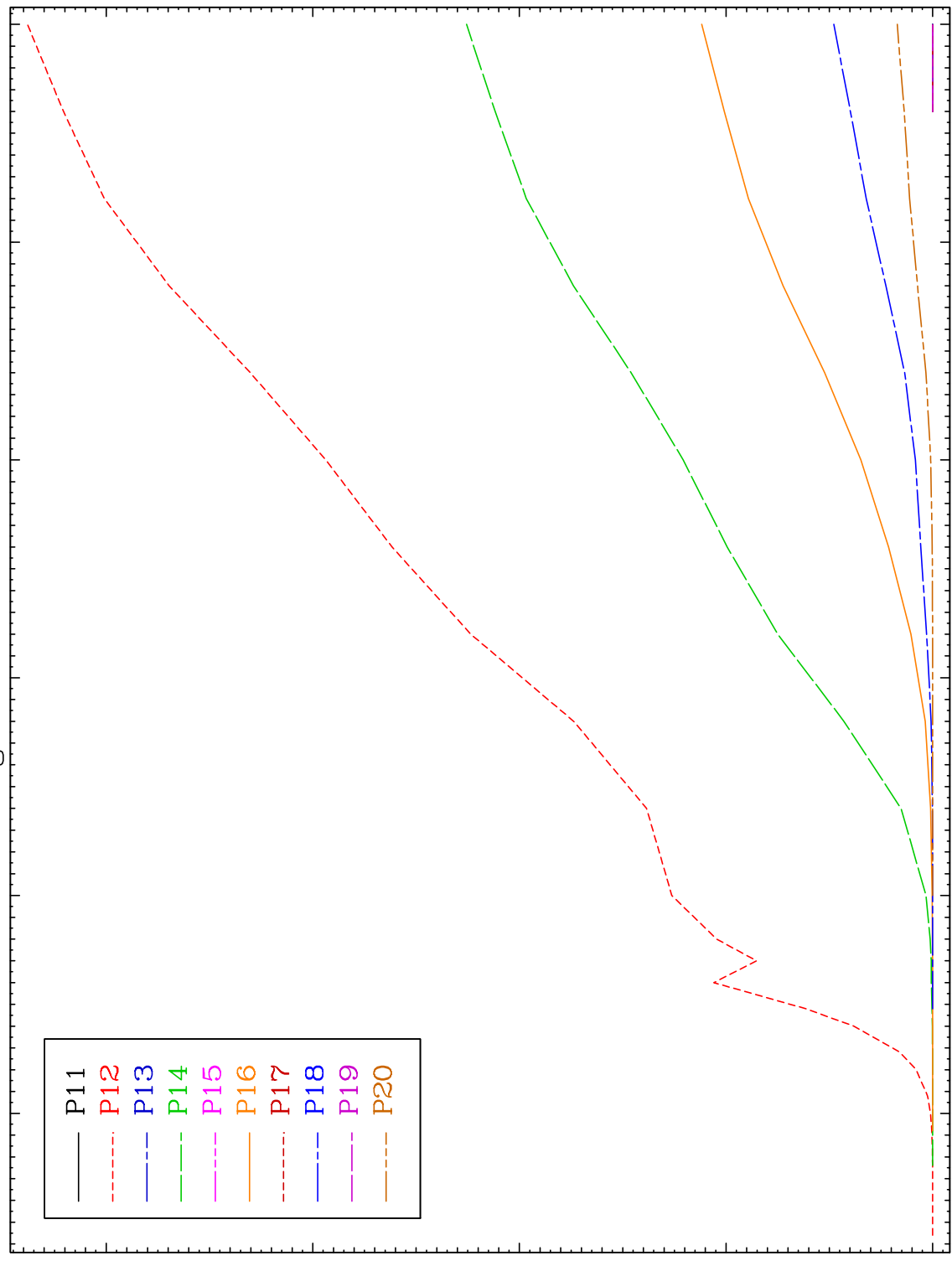
25

30

17

Incident Energy (MeV)

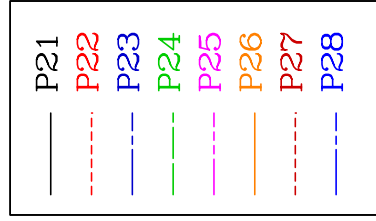
85-At-200n



MAT 8518

Elastic
Legendre Coefficients

85-At-200n



$\times 10^{-6}$

1.5

1.0

0.5

0.0

Legendre (CM)

15

20

25

30

18

Incident Energy (MeV)

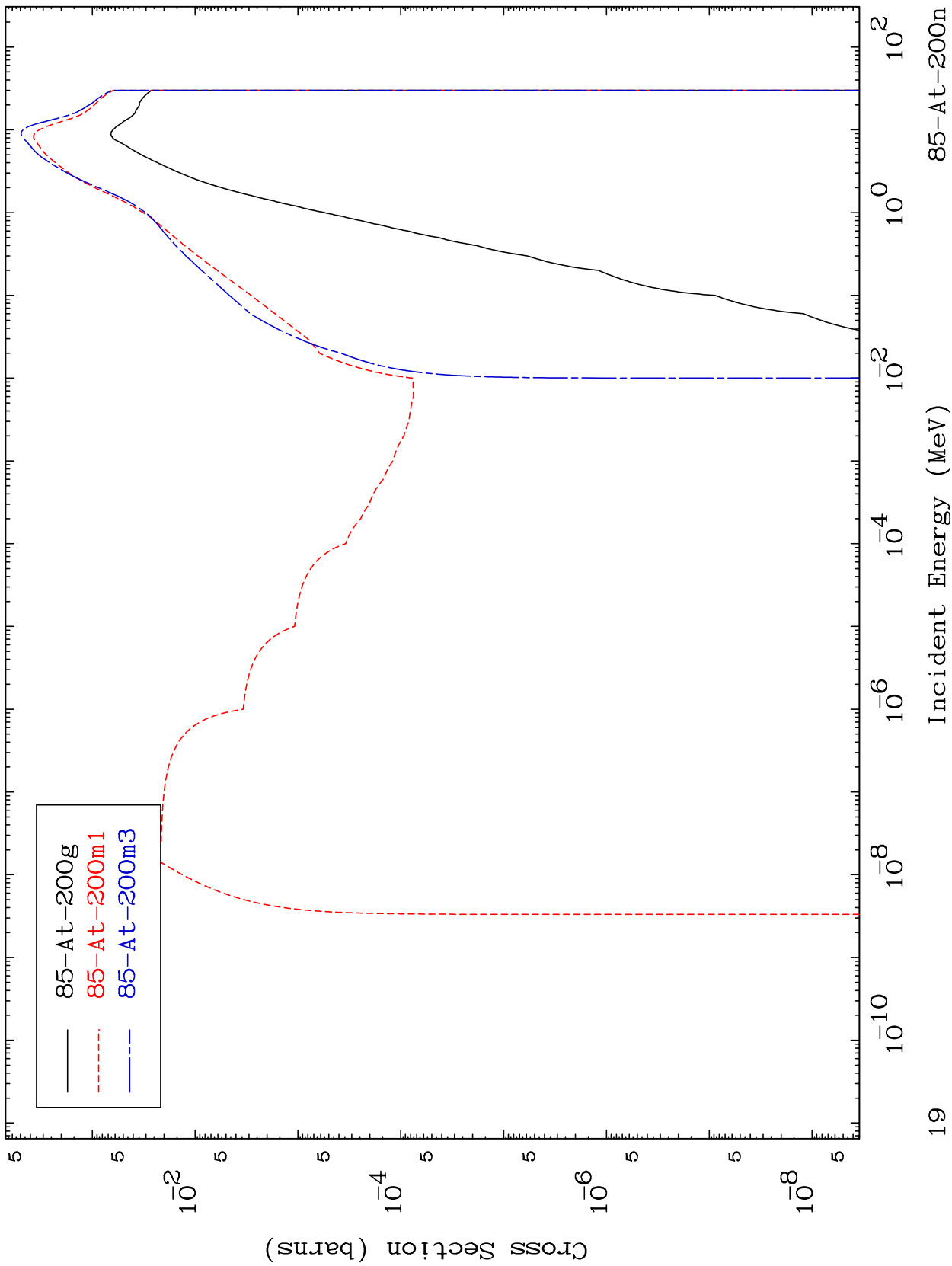
85-At-200n



MAT 8518

85-At-200n

Inelastic
Radionuclide Production Cross Section

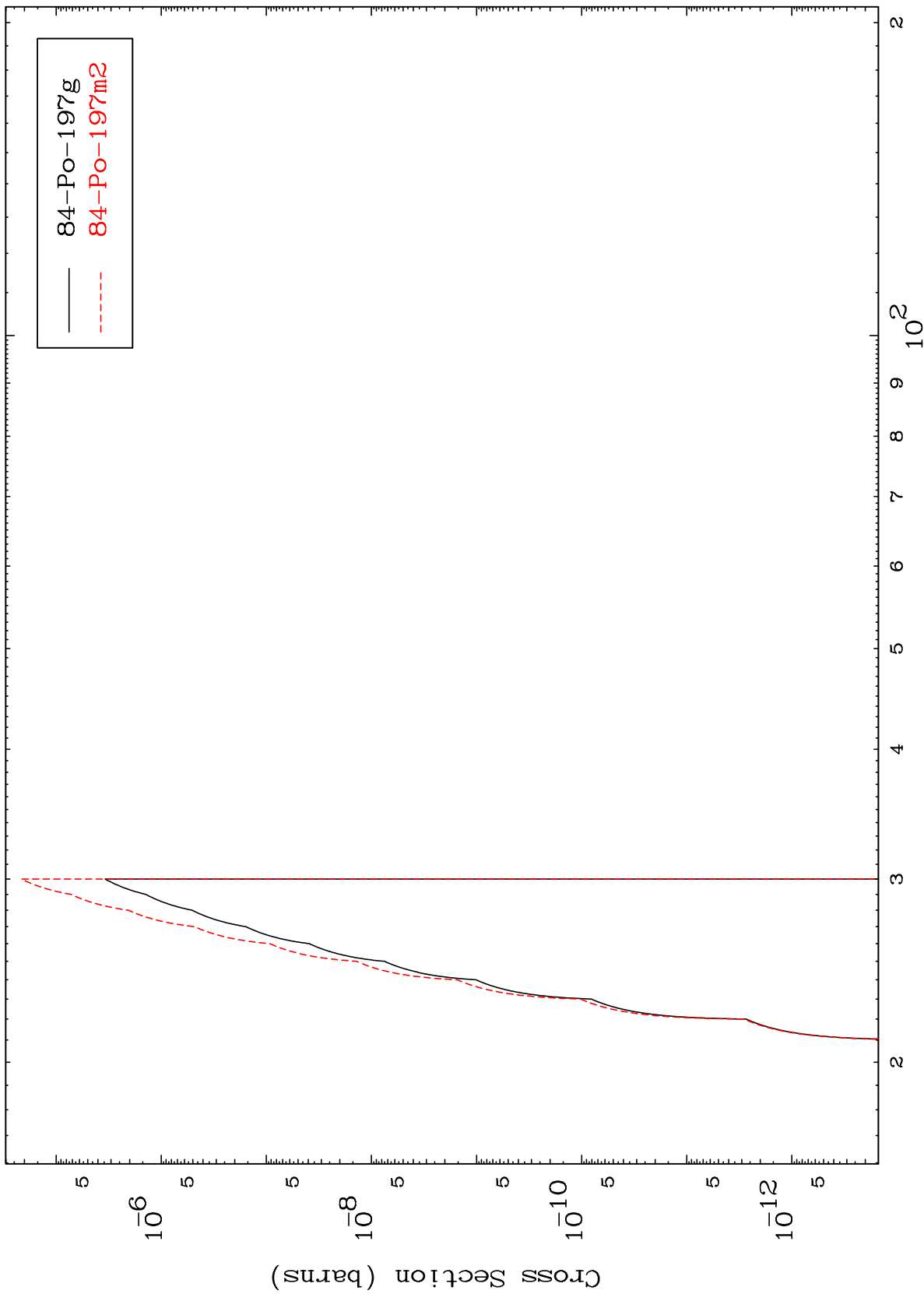


MAT 8518

(n,2n) d

85-At-200n

Radionuclide Production Cross Section



20

Incident Energy (MeV)

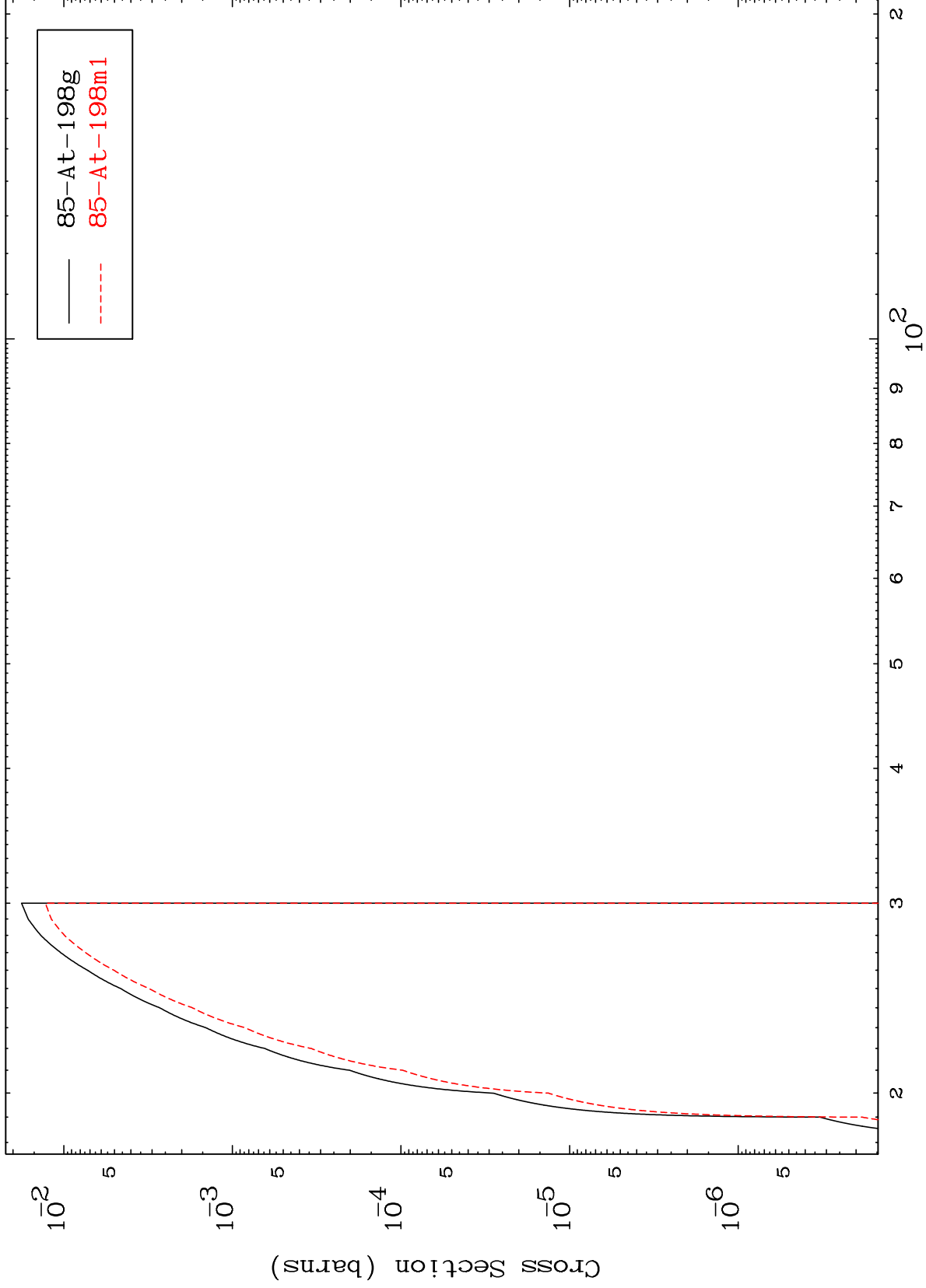
85-At-200n

MAT 8518

(n,3n)

85-At-200n

Radionuclide Production Cross Section



21

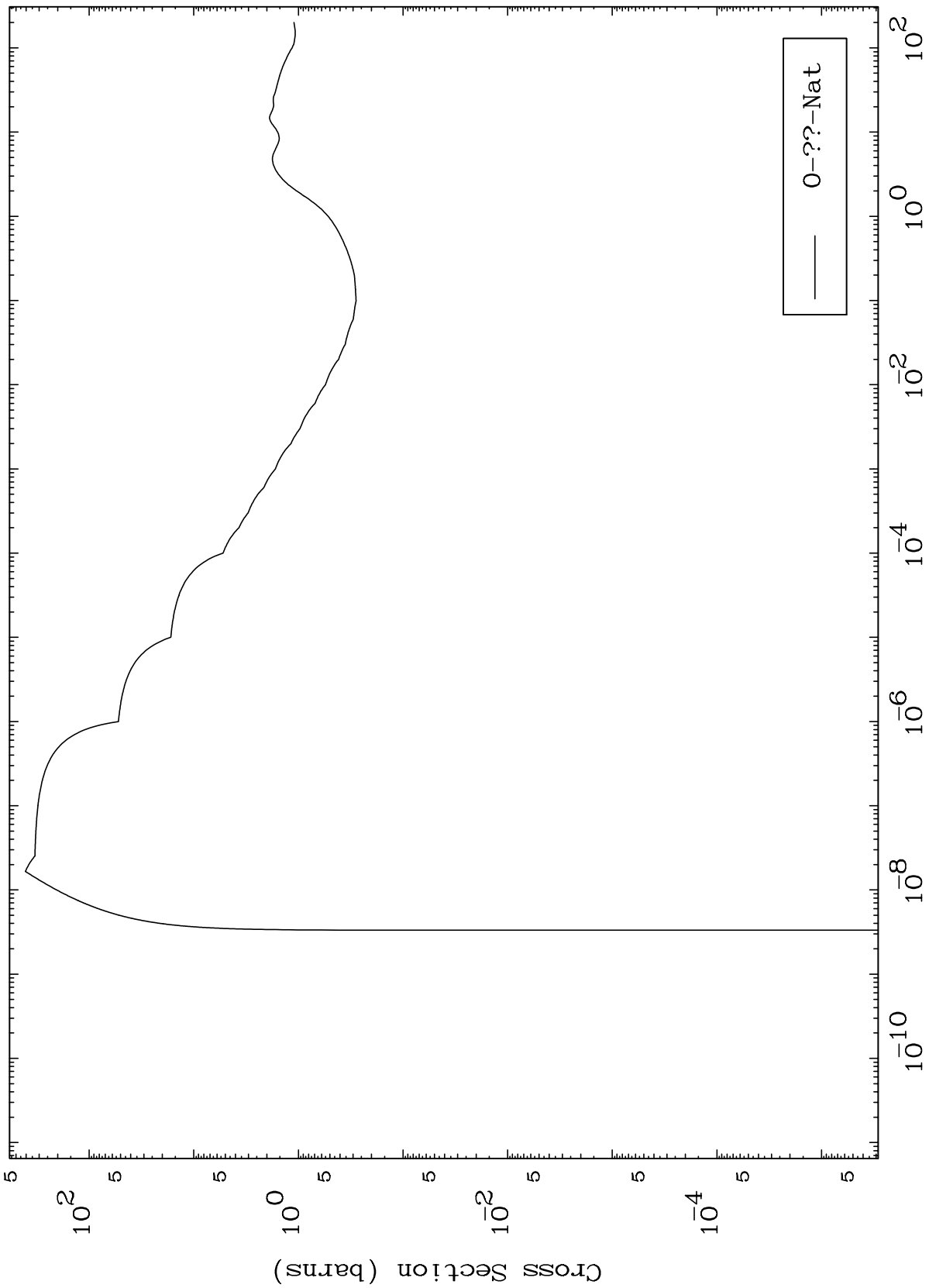
Incident Energy (MeV)

85-At-200n

MAT 8518

85-At-200n

Fission
Radionuclide Production Cross Section

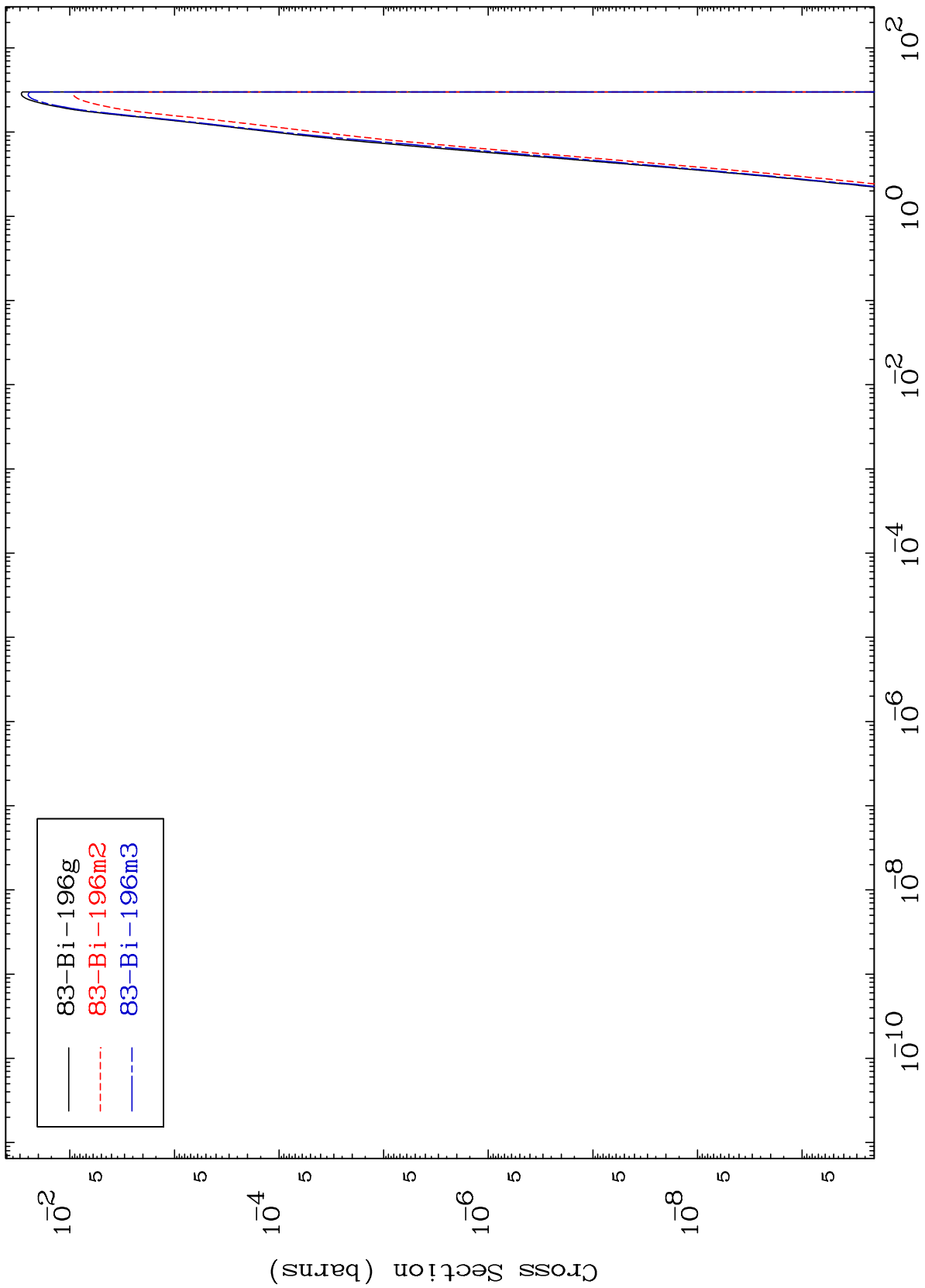


MAT 8518

$(n, n') \alpha$

85-At-200n

Radionuclide Production Cross Section

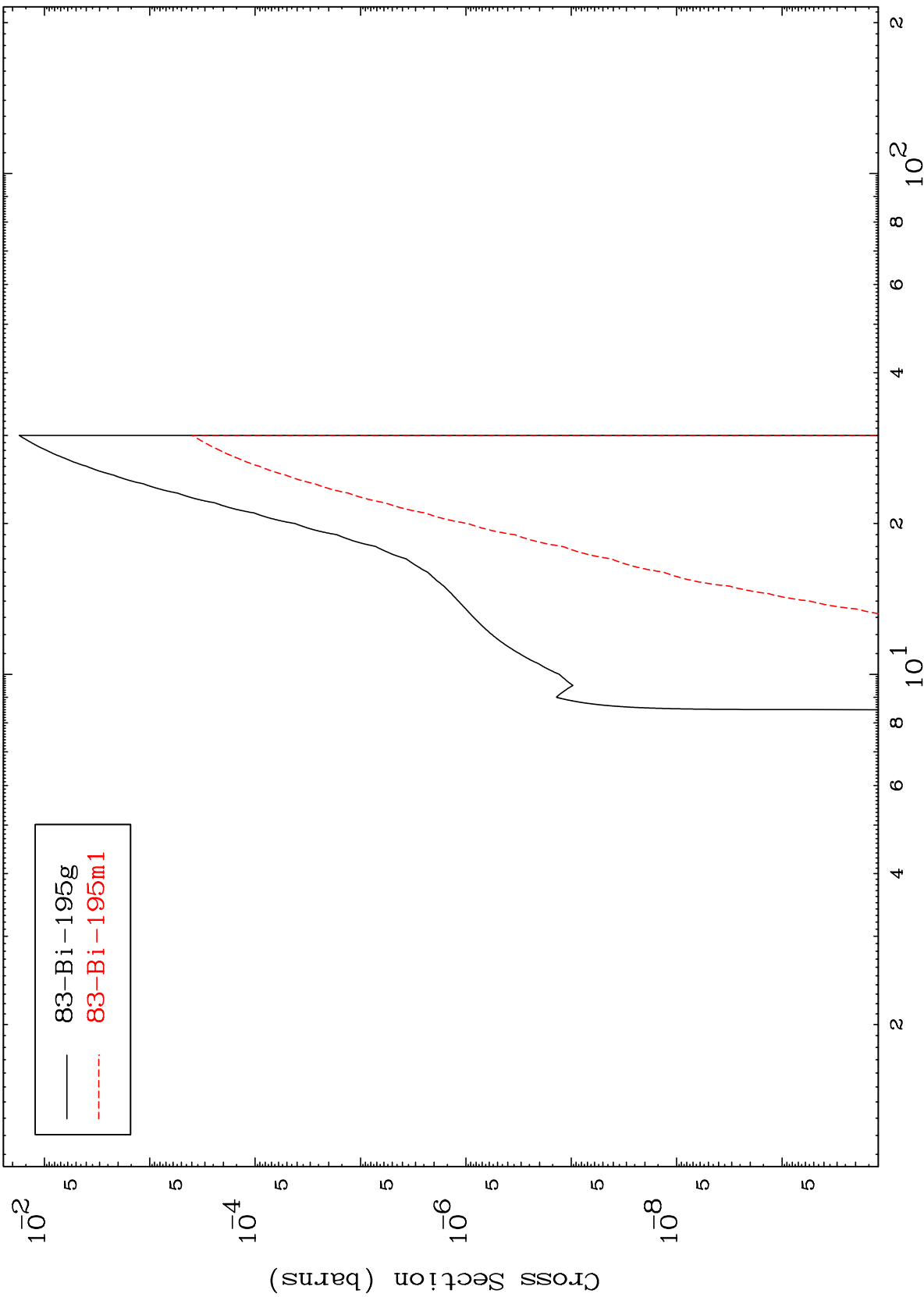


MAT 8518

(n,2n) α

85-At-200n

Radionuclide Production Cross Section

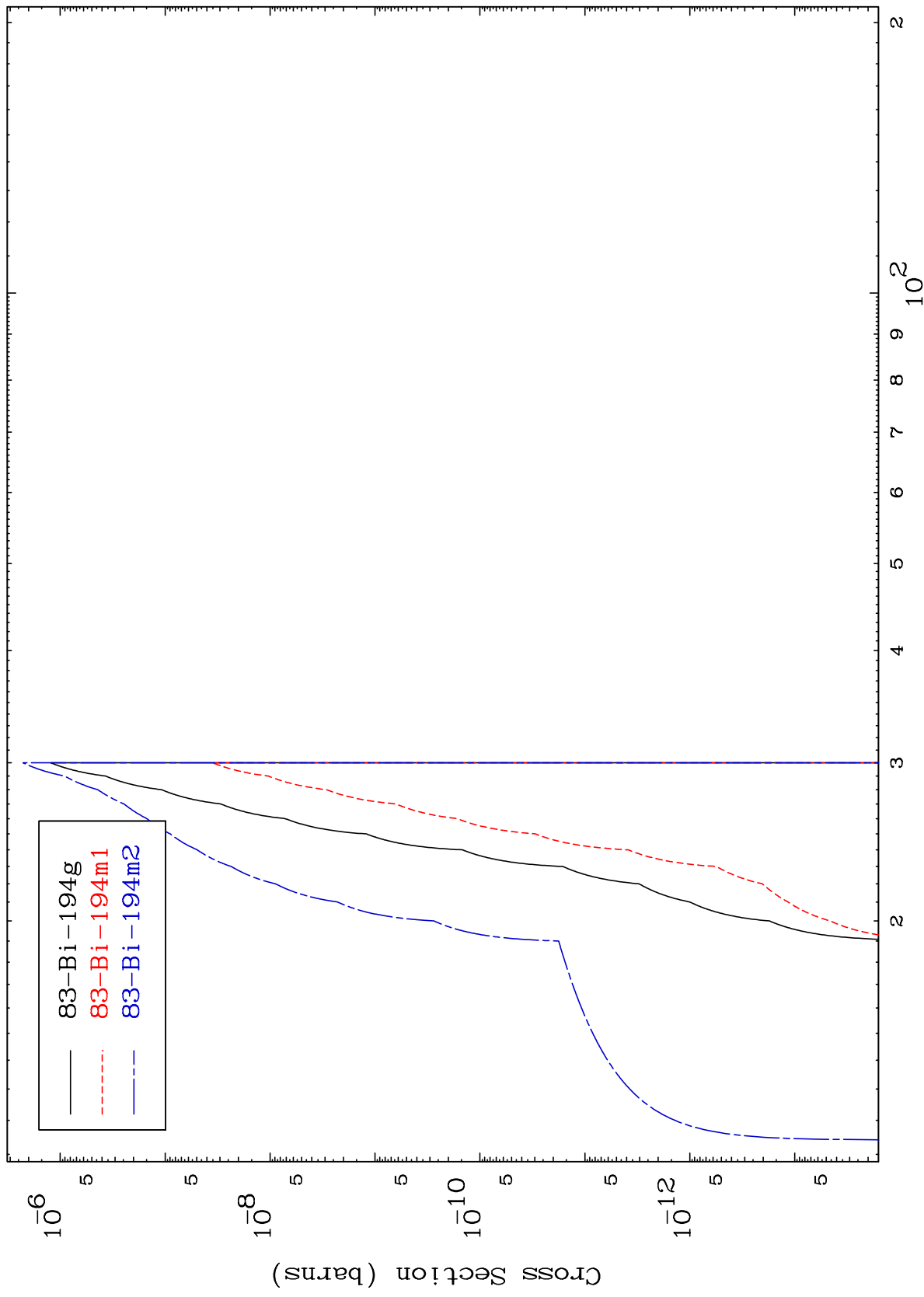


MAT 8518

(n,3n) α

85-At-200n

Radionuclide Production Cross Section

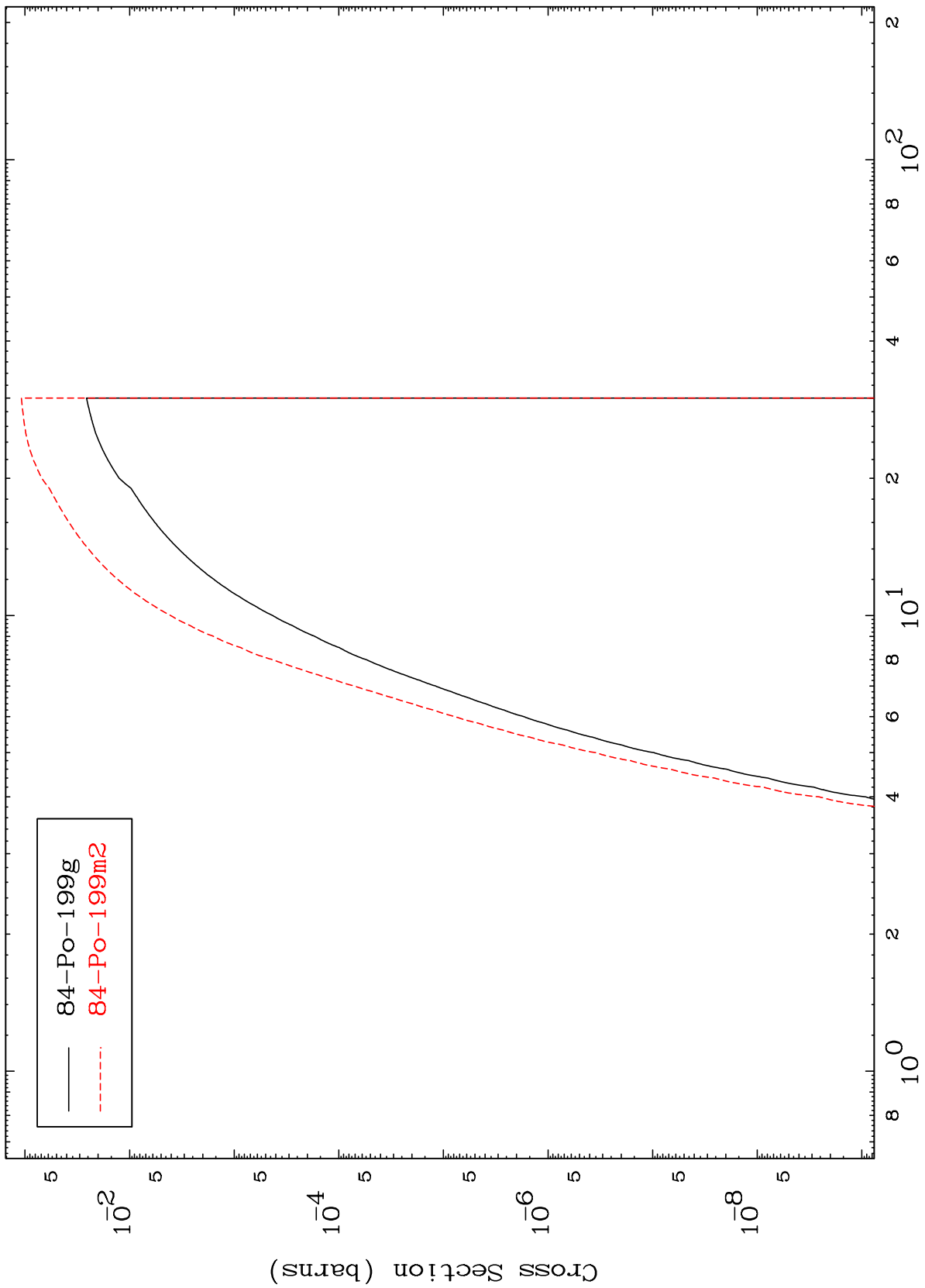


MAT 8518

(n,n') p

85-At-200n

Radionuclide Production Cross Section



26

Incident Energy (MeV)

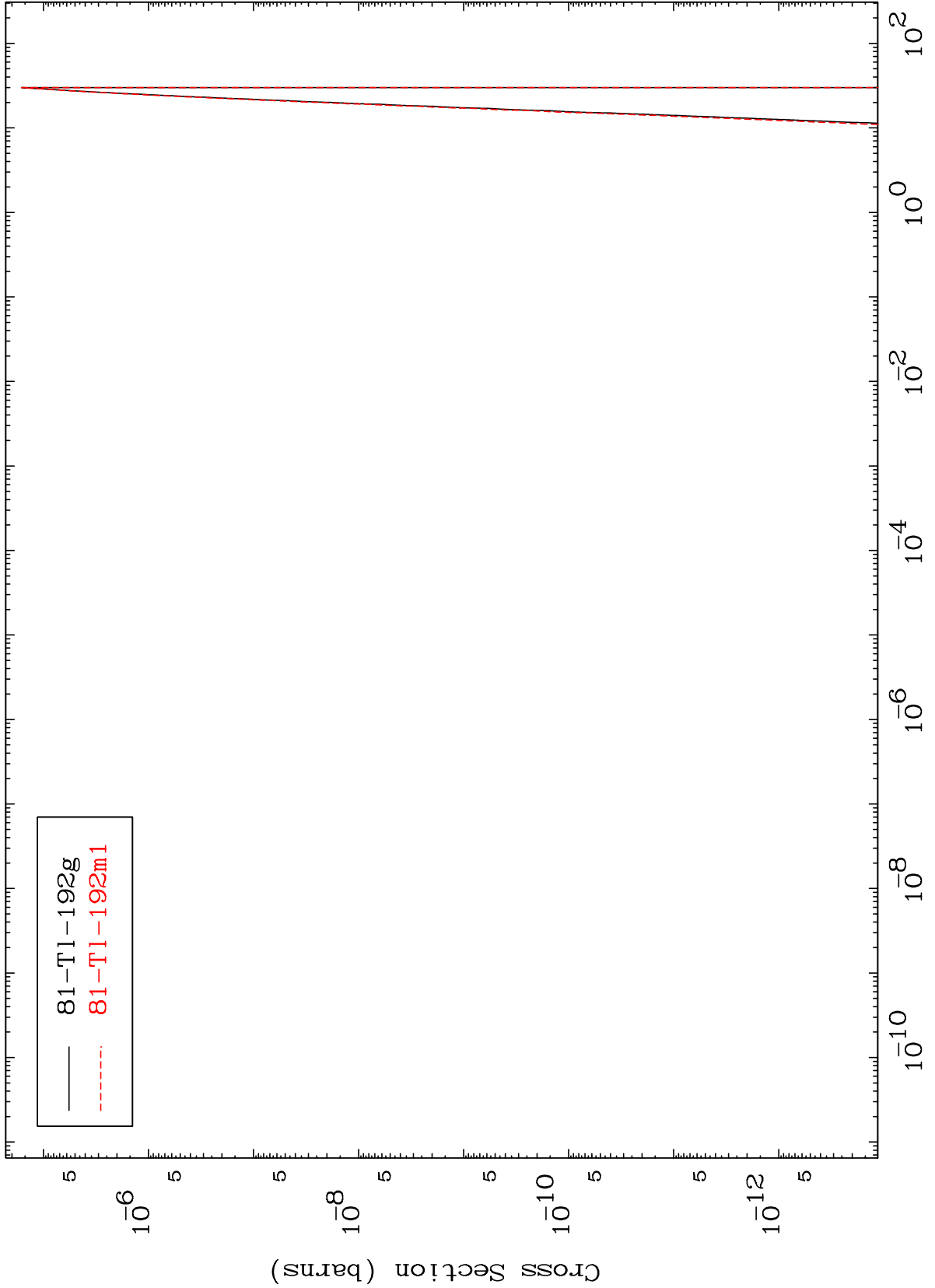
85-At-200n

MAT 8518

(n,n') 2α

85-At-200n

Radionuclide Production Cross Section

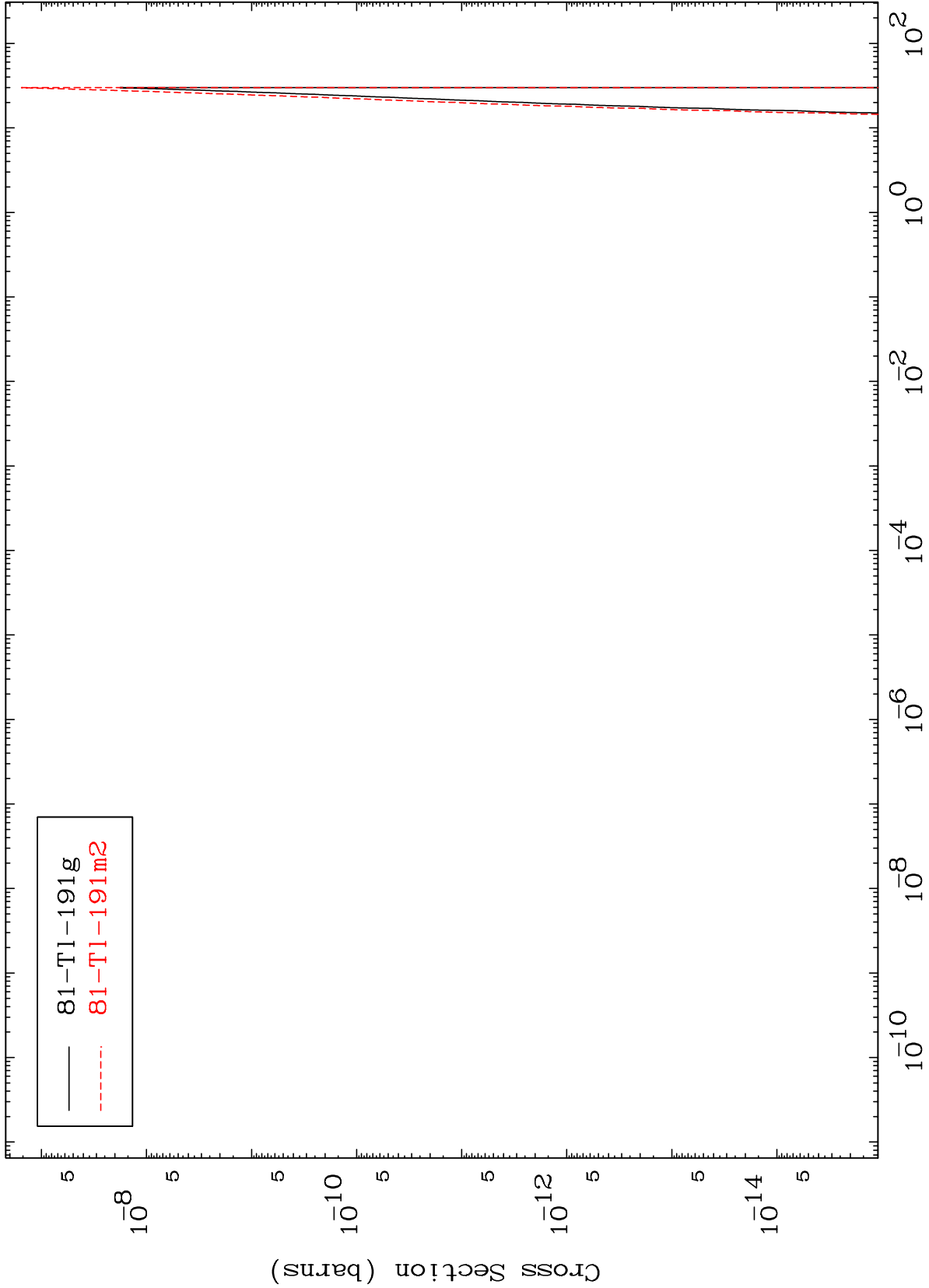


MAT 8518

(n,2n) 2α

85-At-200n

Radionuclide Production Cross Section

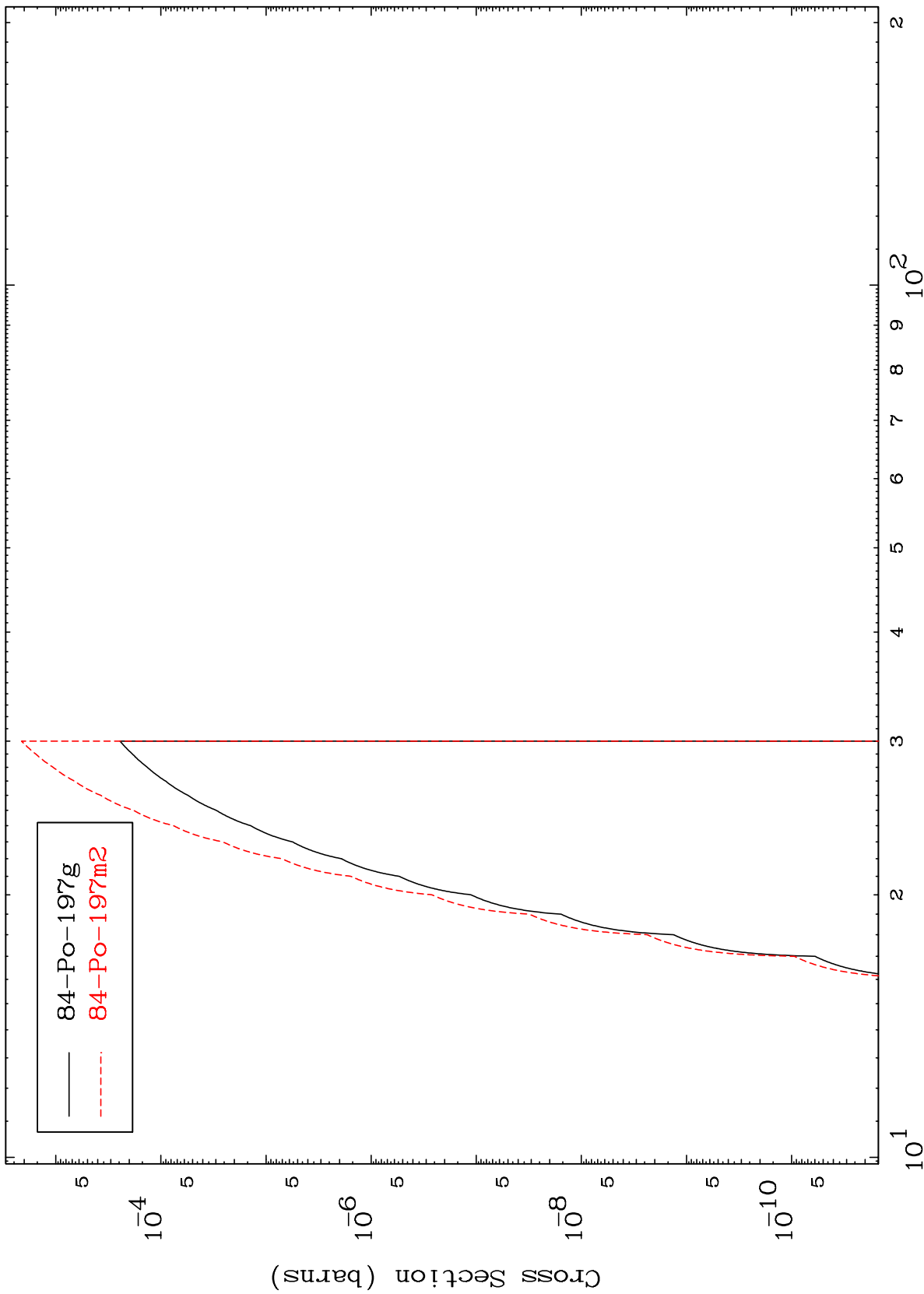


MAT 8518

(n,n') t

85-At-200n

Radionuclide Production Cross Section



Incident Energy (MeV)

85-At-200n

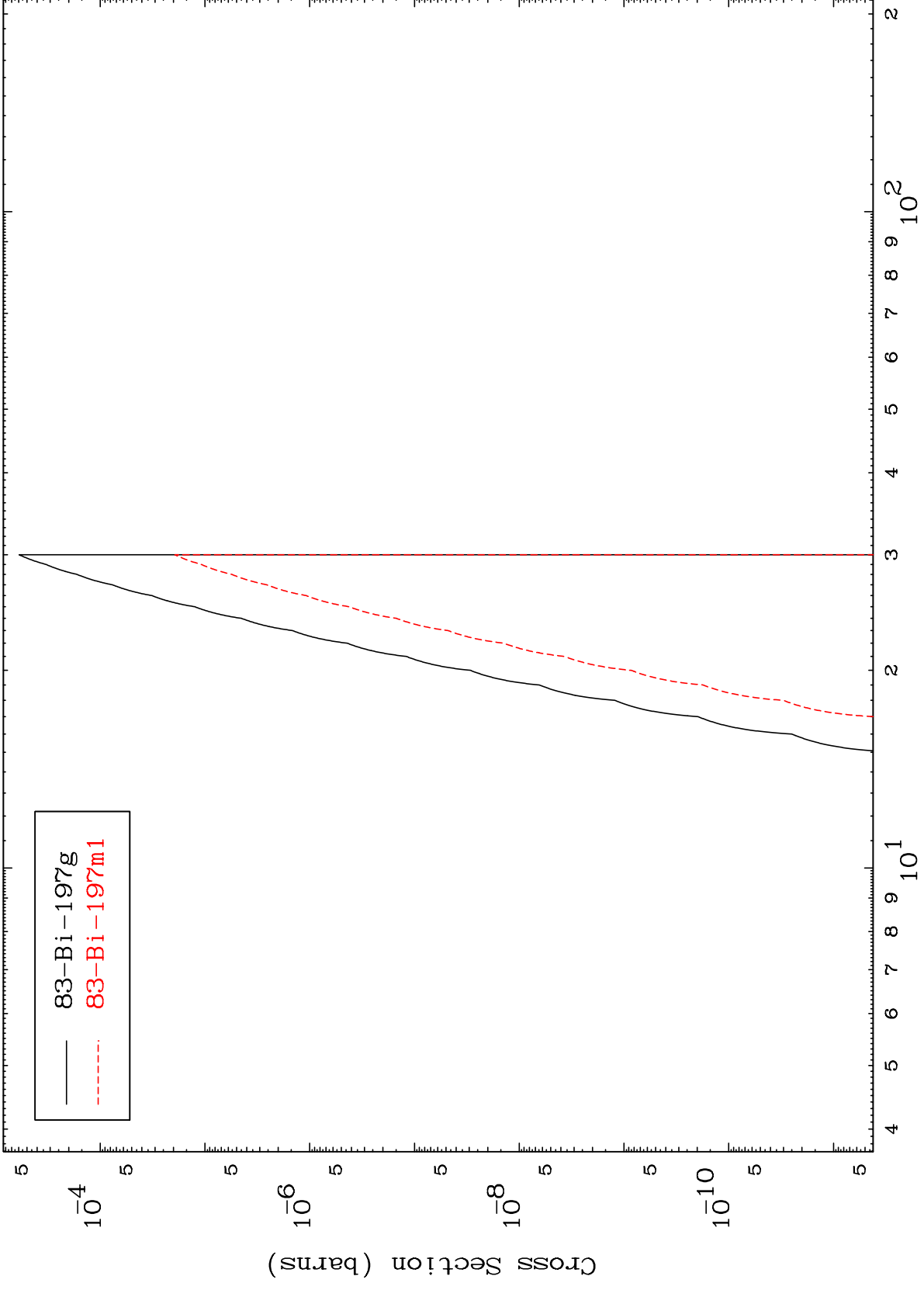
29

MAT 8518

(n,n') He-3

85-At-200n

Radionuclide Production Cross Section



30

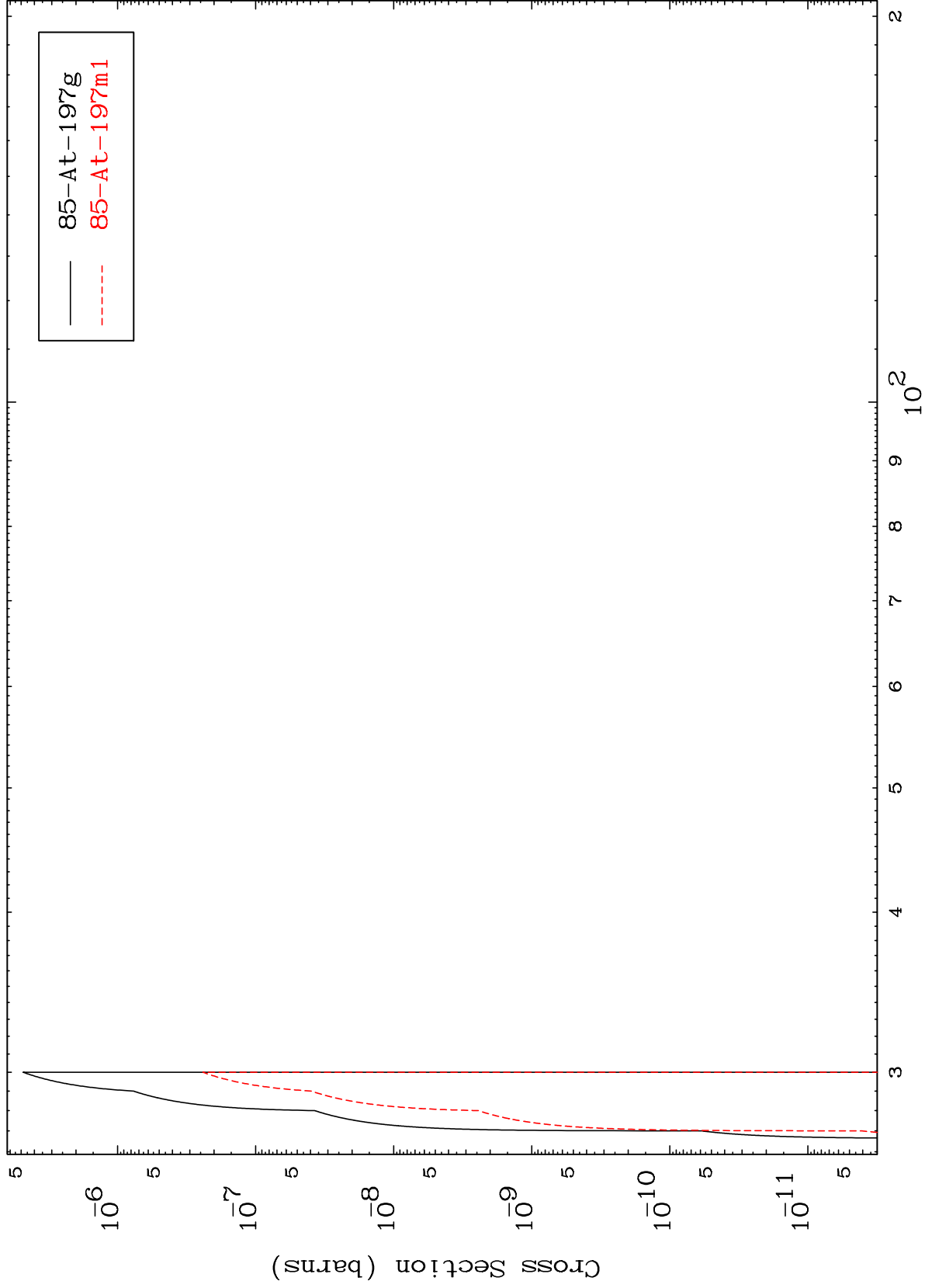
Incident Energy (MeV)

85-At-200n

MAT 8518

85-At-200n

(n,4n)
Radionuclide Production Cross Section



31

Incident Energy (MeV)

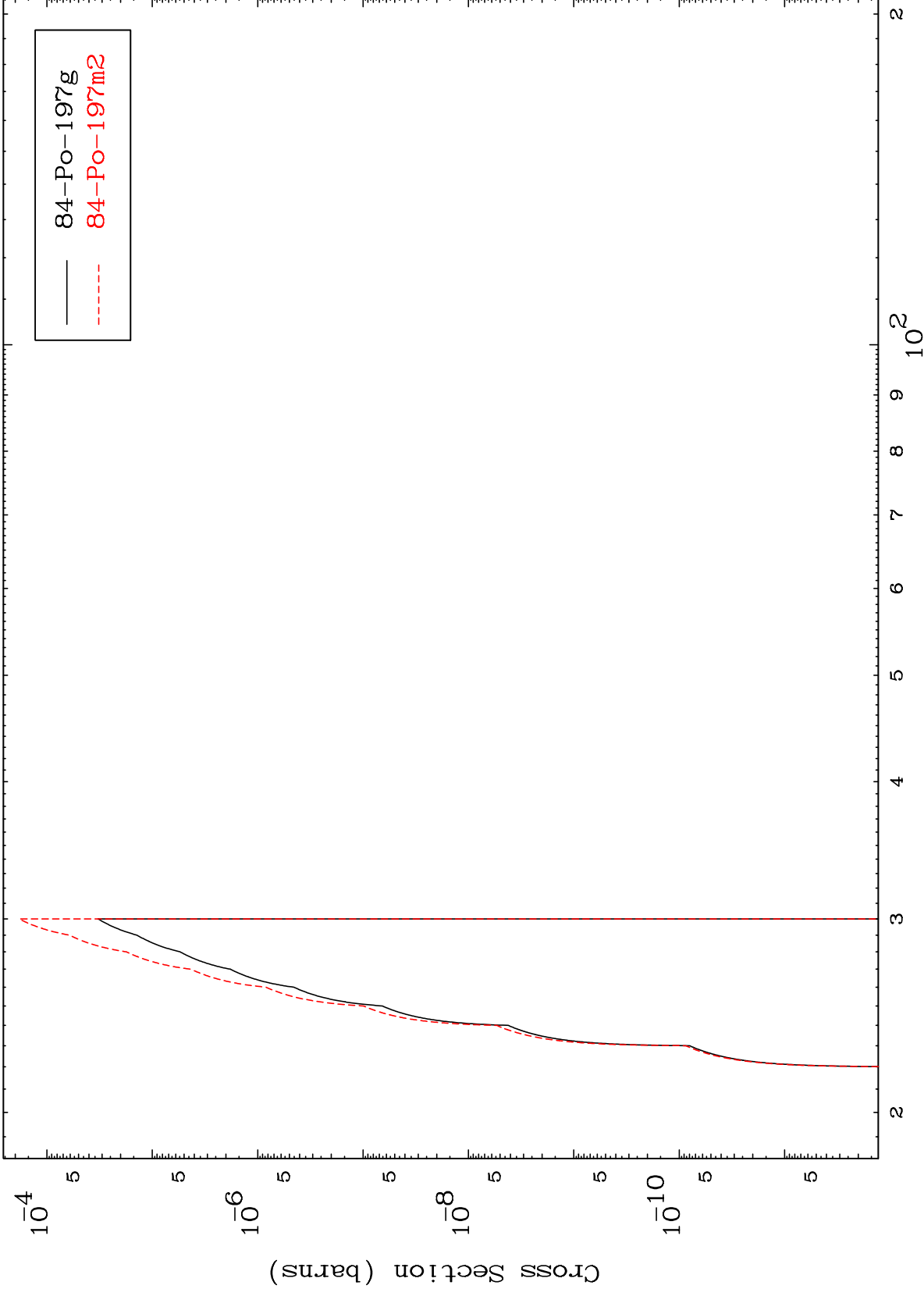
85-At-200n

MAT 8518

(n,3n) p

85-At-200n

Radionuclide Production Cross Section



32

Incident Energy (MeV)

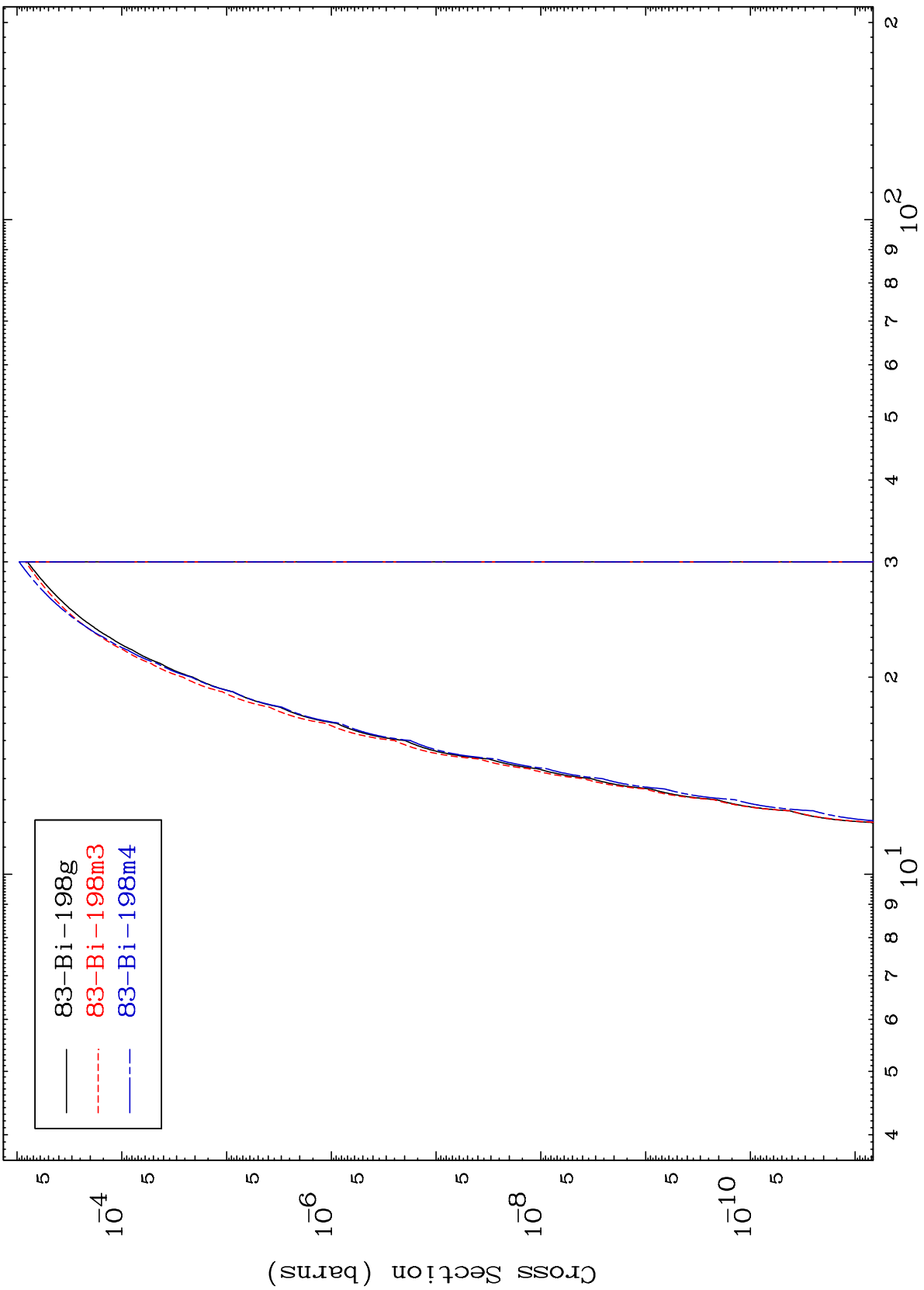
85-At-200n

MAT 8518

(n,2n) p

85-At-200n

Radionuclide Production Cross Section



33

Incident Energy (MeV)

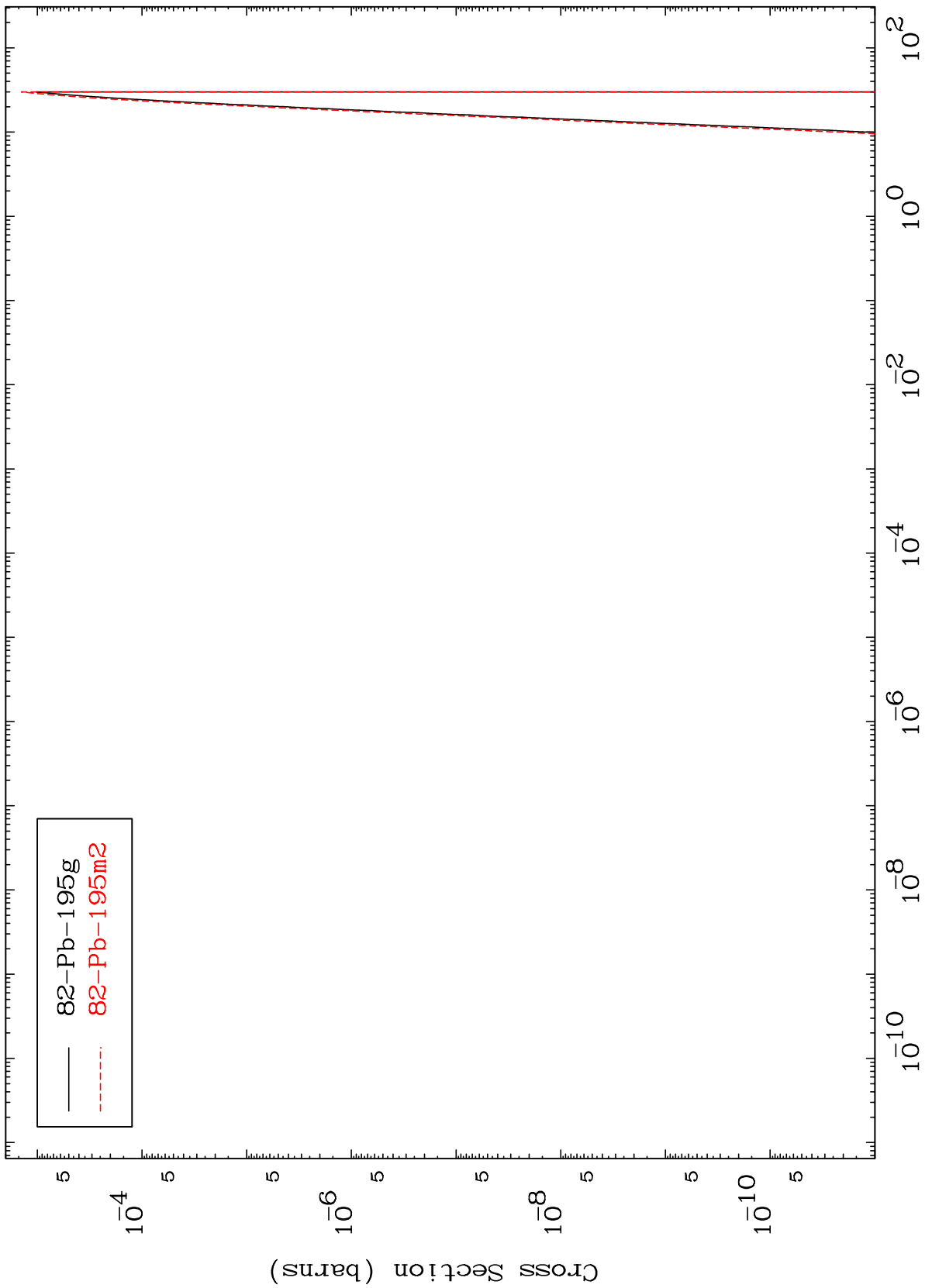
85-At-200n

MAT 8518

(n,n') p α

85-At-200n

Radionuclide Production Cross Section

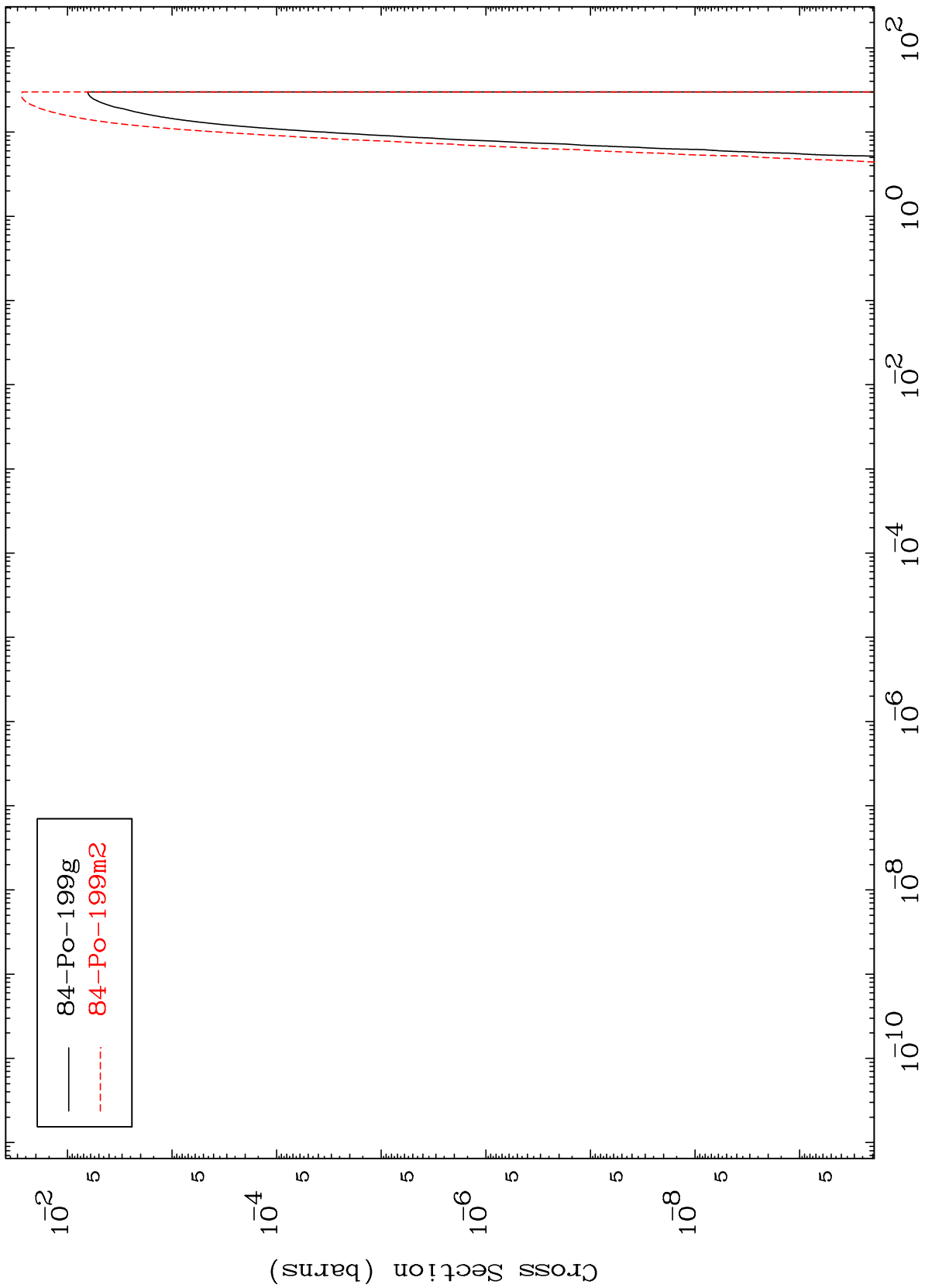


MAT 8518

(n,d)

85-At-200n

Radionuclide Production Cross Section

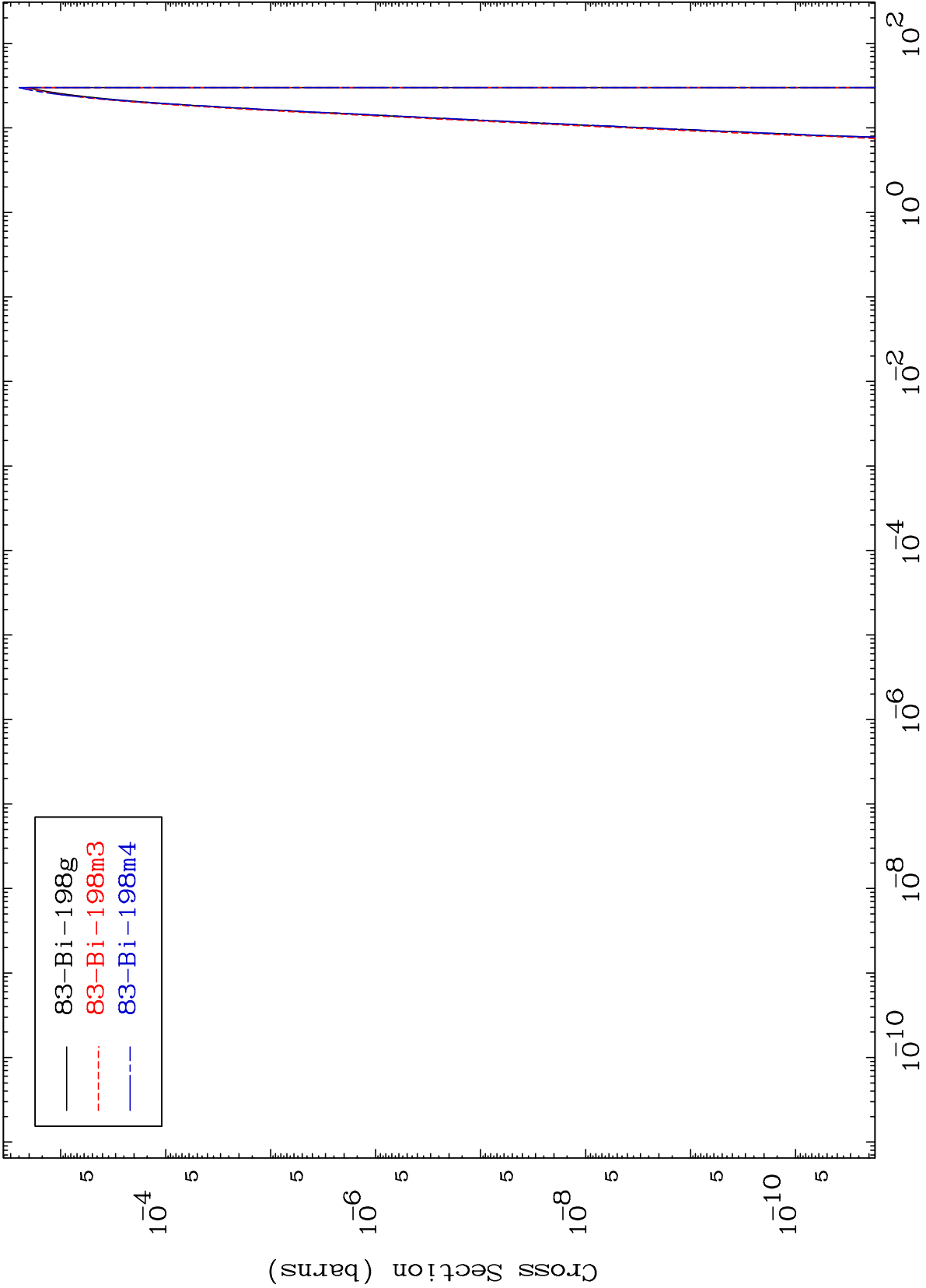


MAT 8518

(n,He-3)

85-At-200n

Radionuclide Production Cross Section



36

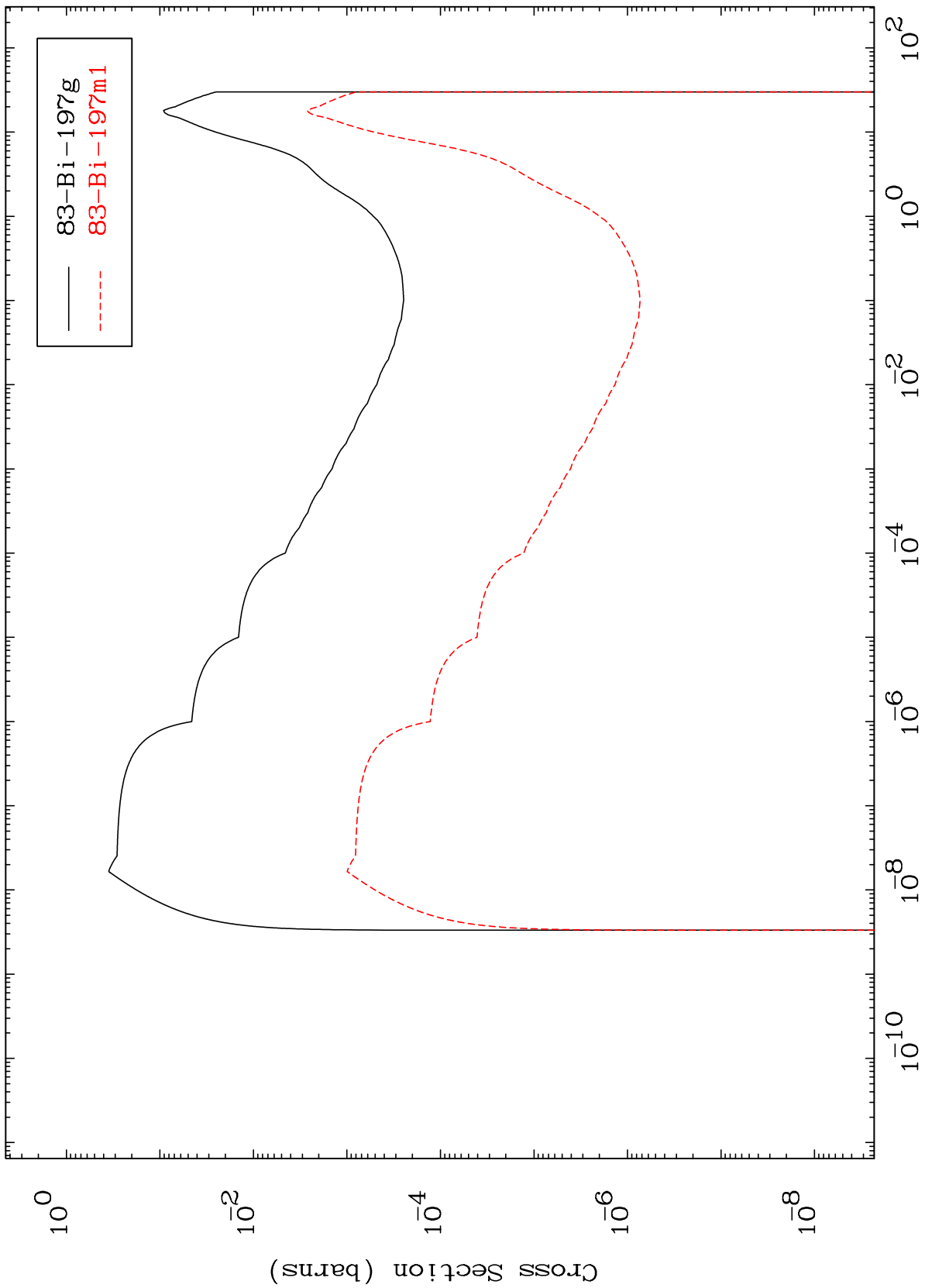
Incident Energy (MeV)

85-At-200n

MAT 8518

85-At-200n

(n, α)
Radionuclide Production Cross Section



37

85-At-200n

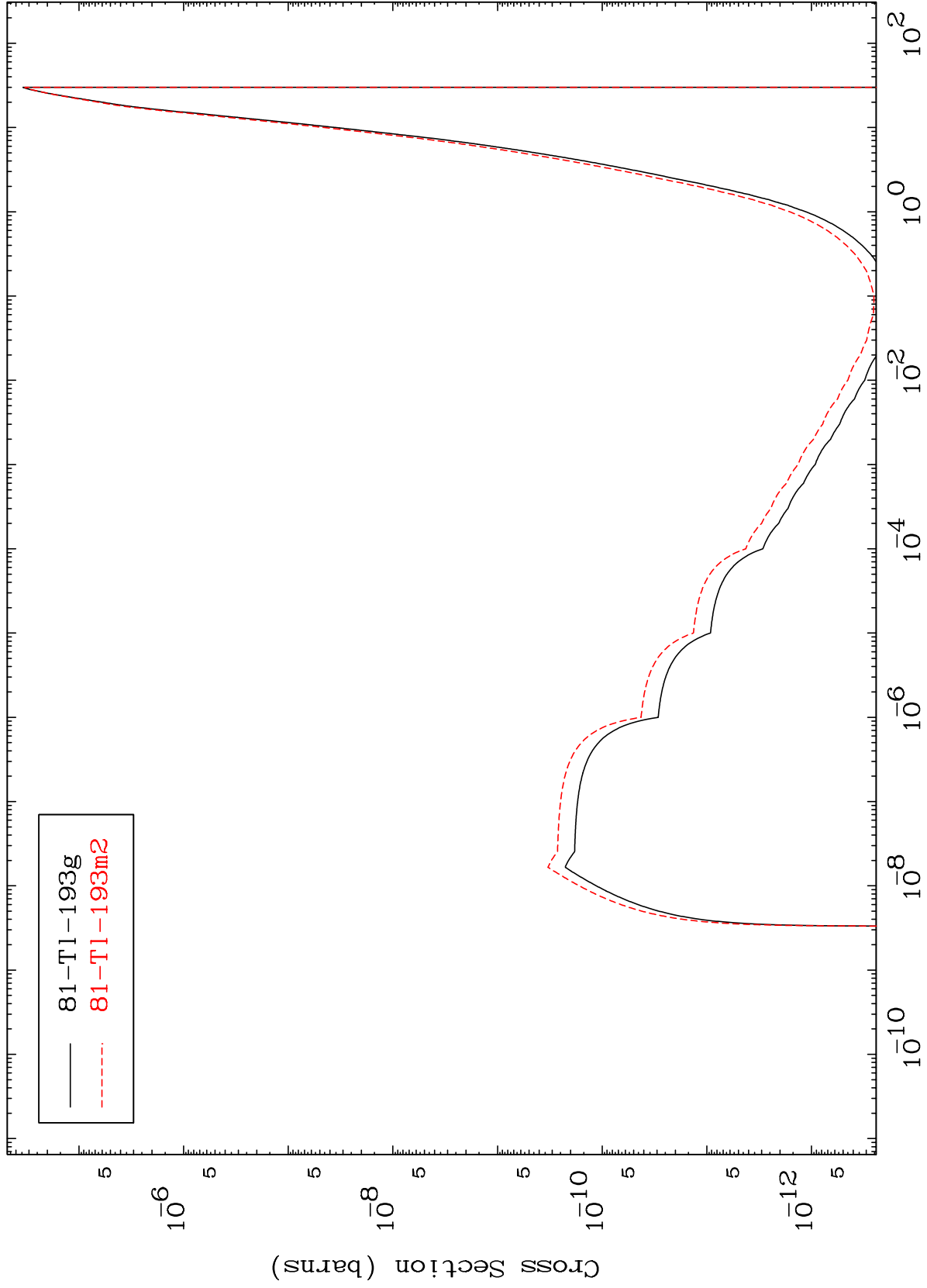
Incident Energy (MeV)

MAT 8518

(n,2α)

85-At-200n

Radionuclide Production Cross Section

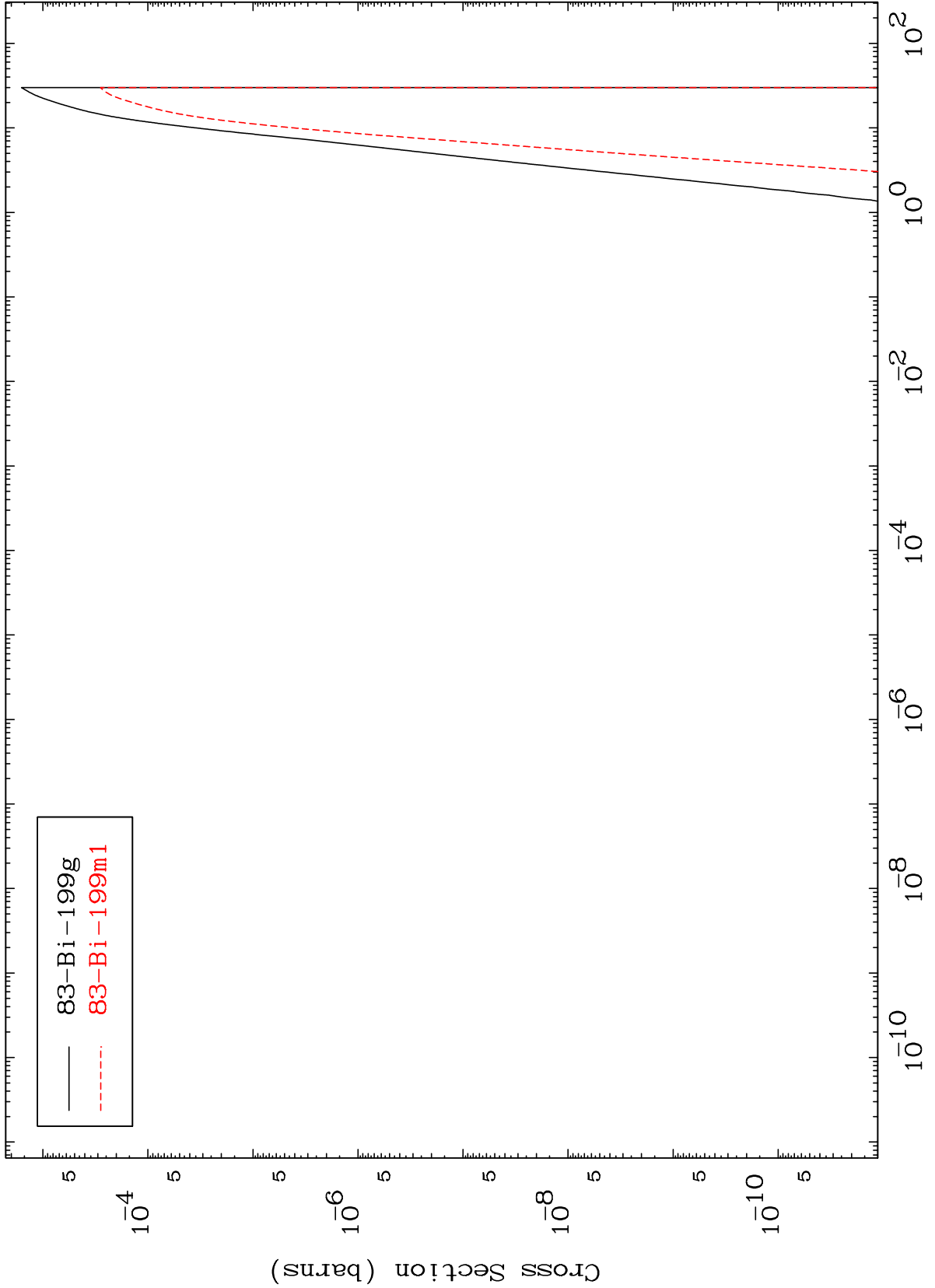


MAT 8518

(n,2p)

85-At-200n

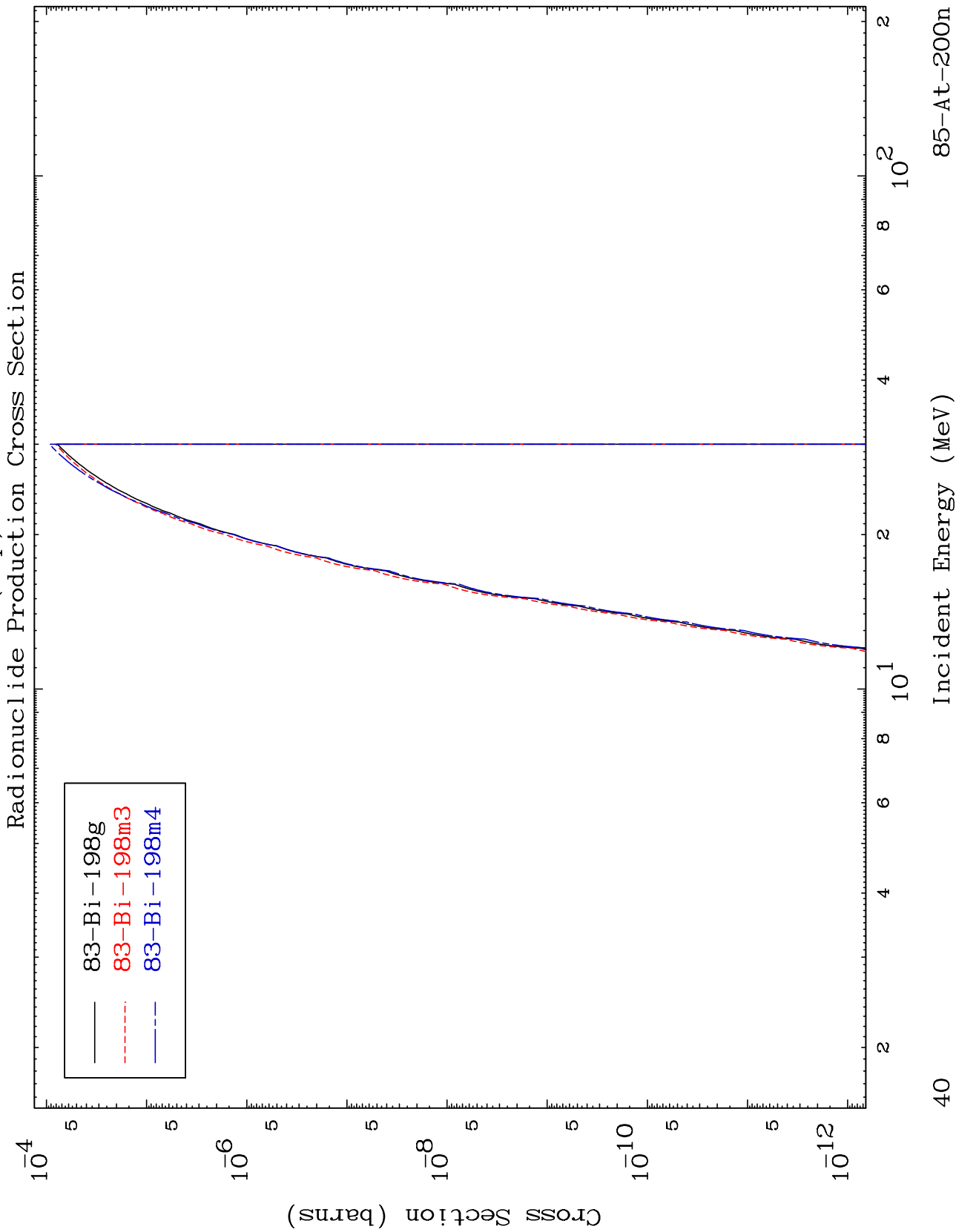
Radionuclide Production Cross Section



MAT 8518

(n,p) d

85-At-200n

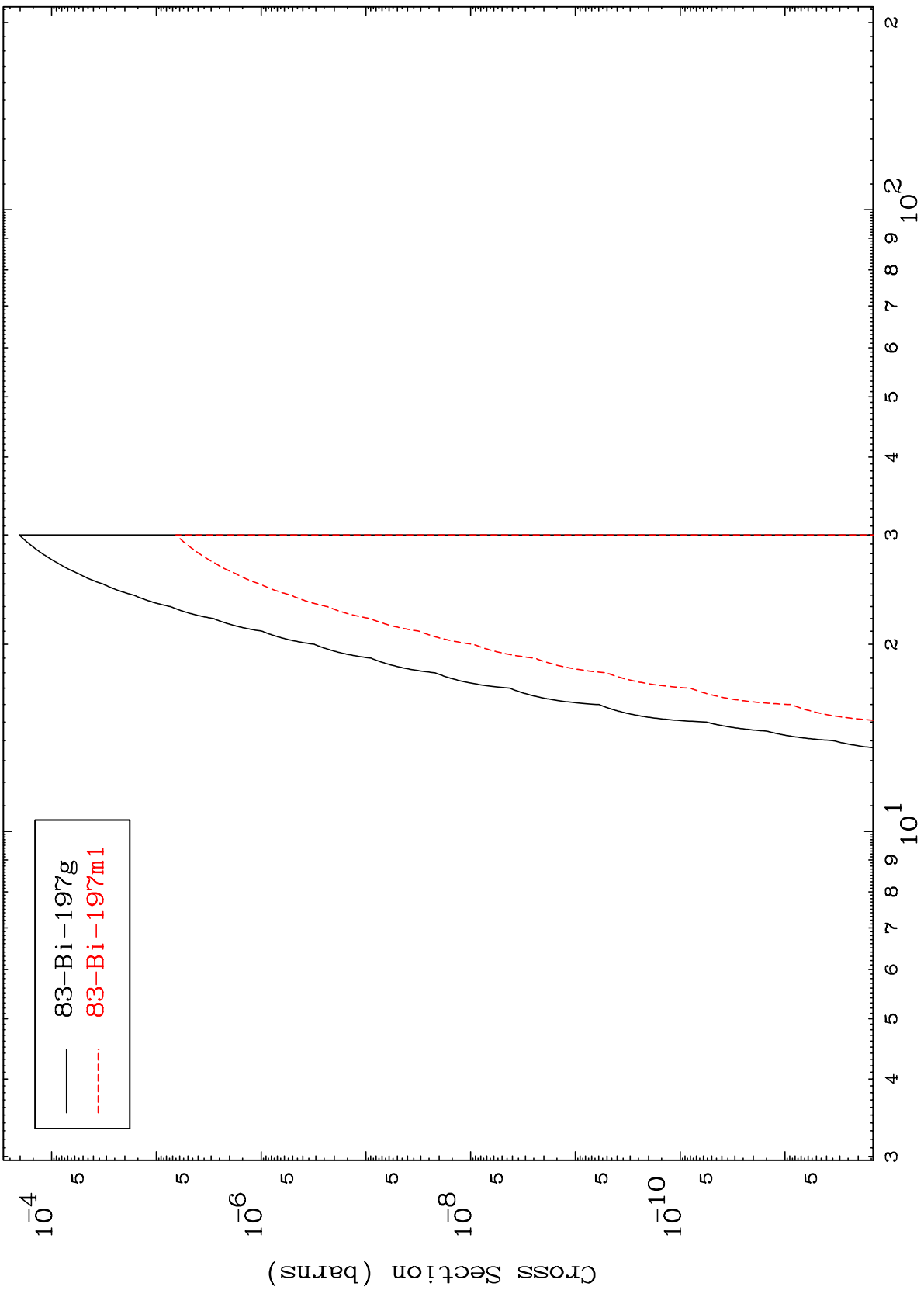


MAT 8518

(n,p) t

85-At-200n

Radionuclide Production Cross Section



83-Bi-197g
83-Bi-197m1

Incident Energy (MeV)

85-At-200n

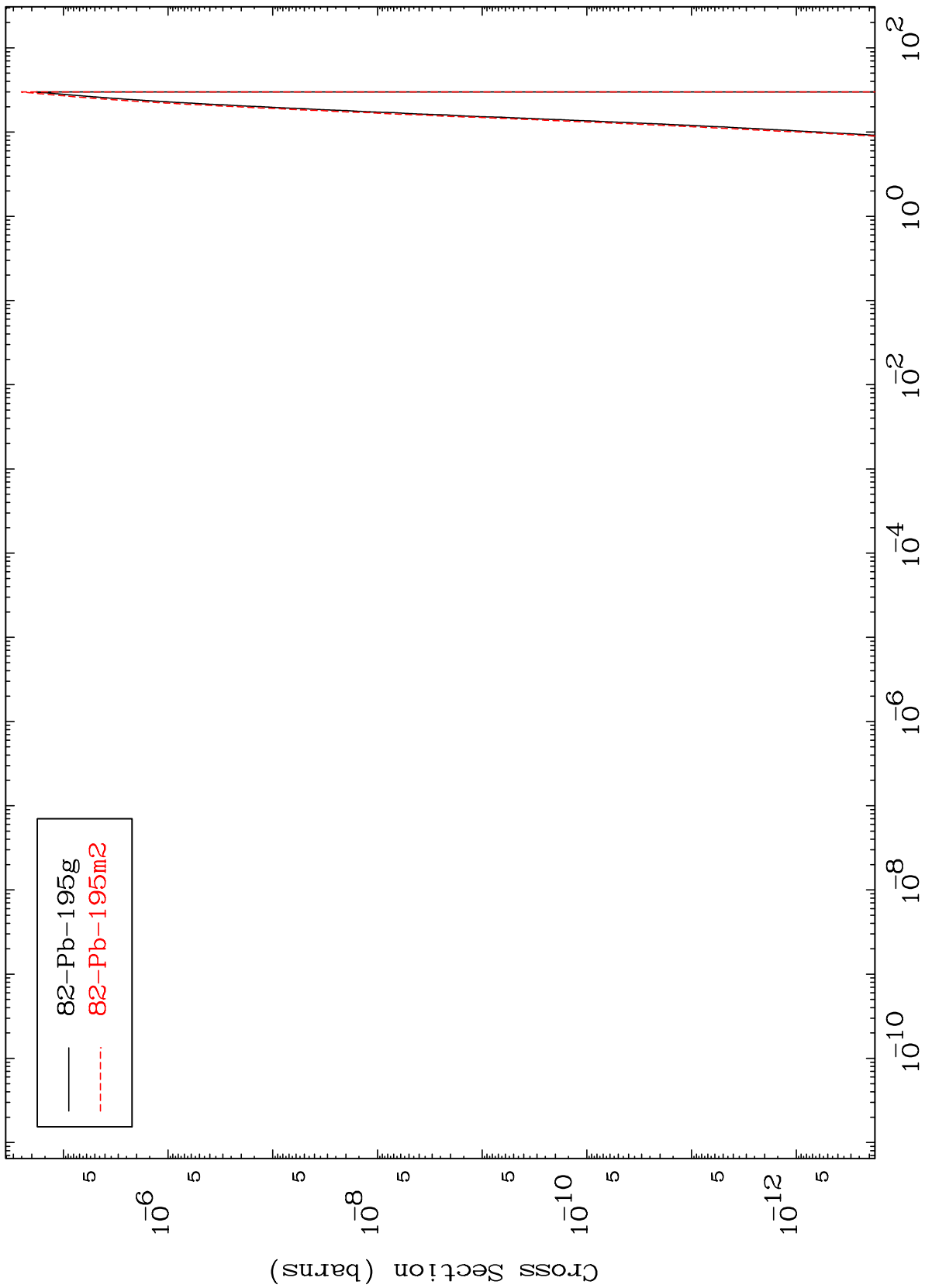
41

MAT 8518

(n,d) α

85-At-200n

Radionuclide Production Cross Section



42

Incident Energy (MeV)

85-At-200n