

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

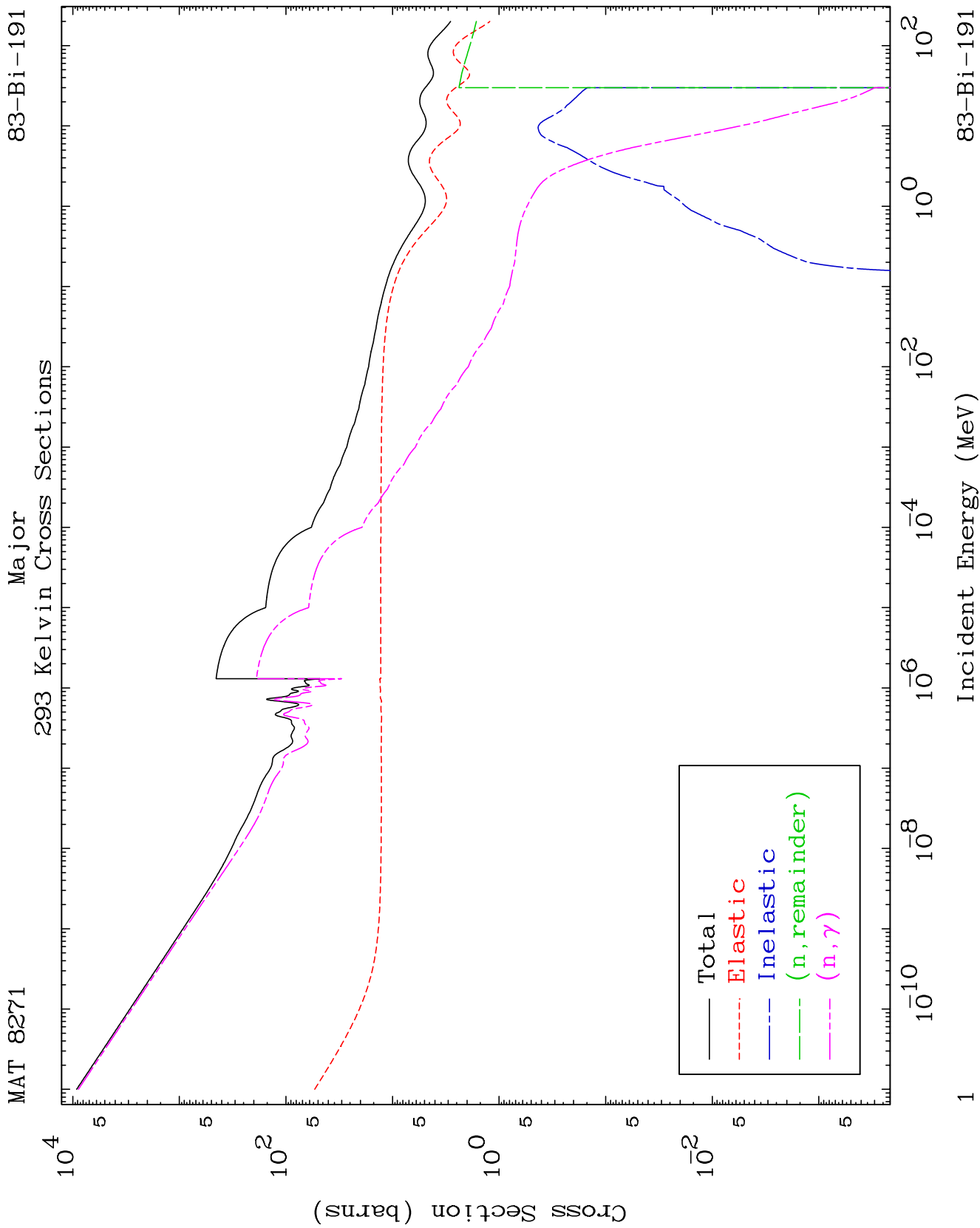
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Tele: 925-443-1911

E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)

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

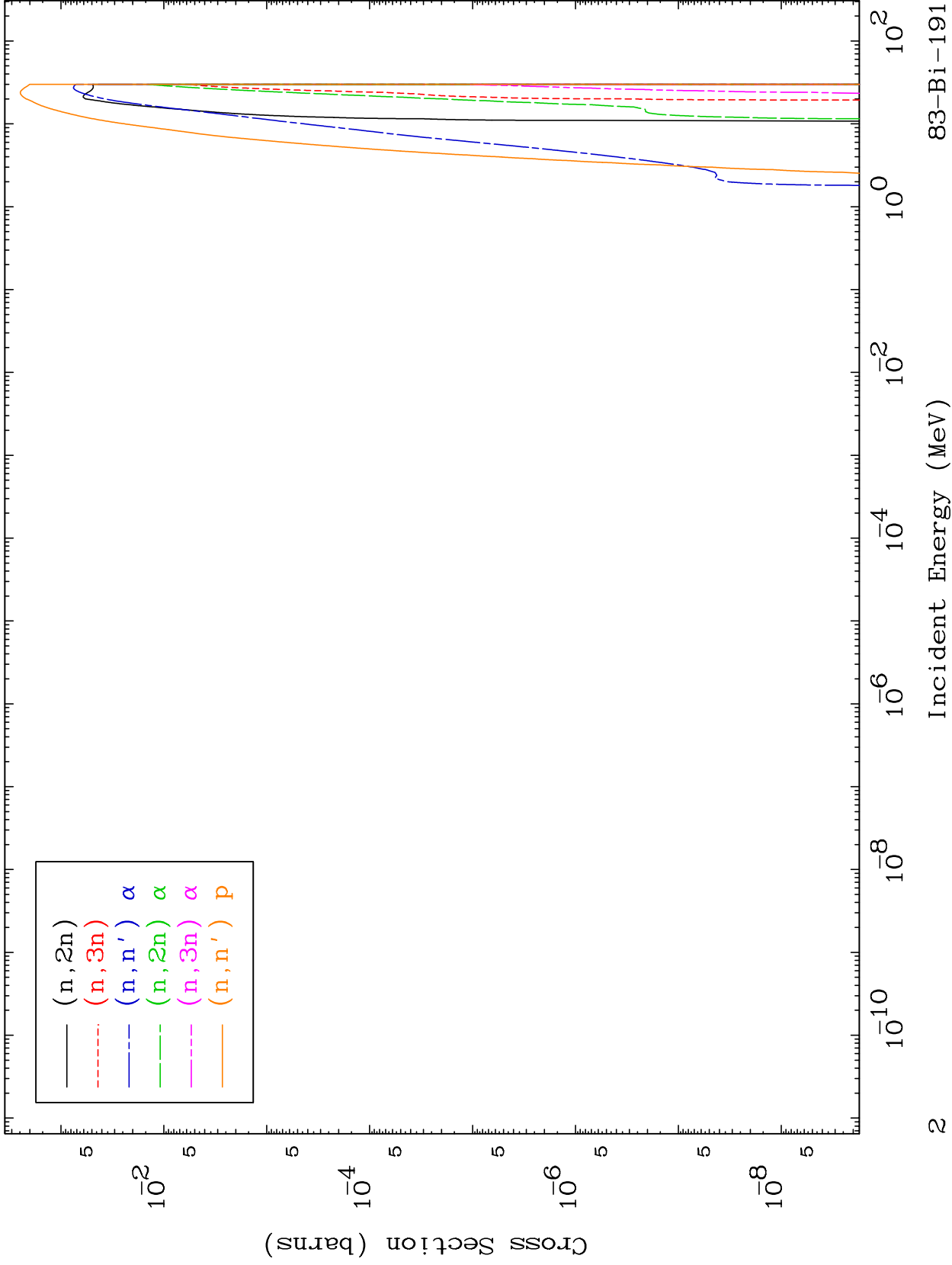
Press Mouse Button to Start



MAT 8271

Neutron Production  
293 Kelvin Cross Sections

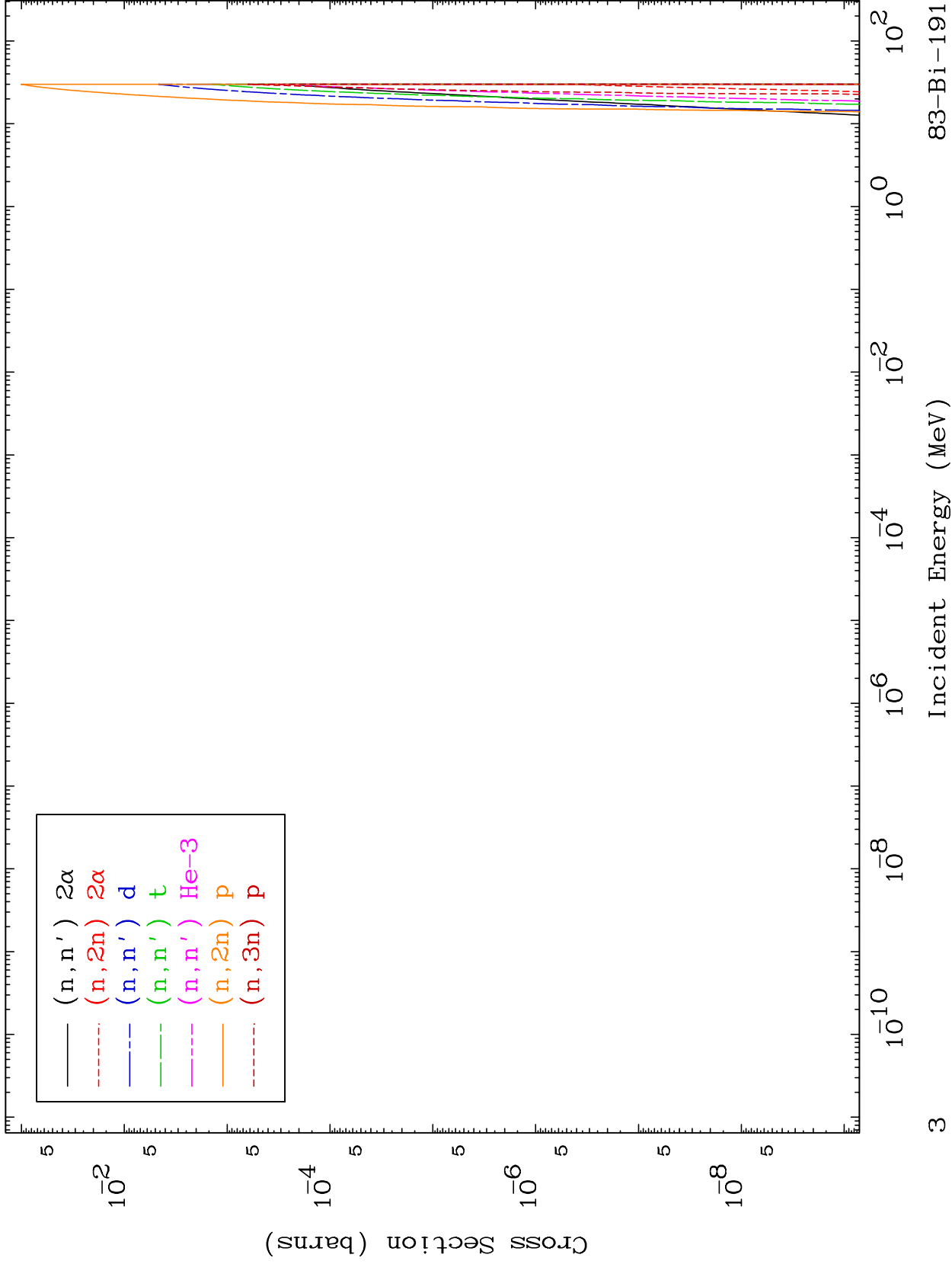
83-Bi-191



MAT 8271

Neutron Production  
293 Kelvin Cross Sections

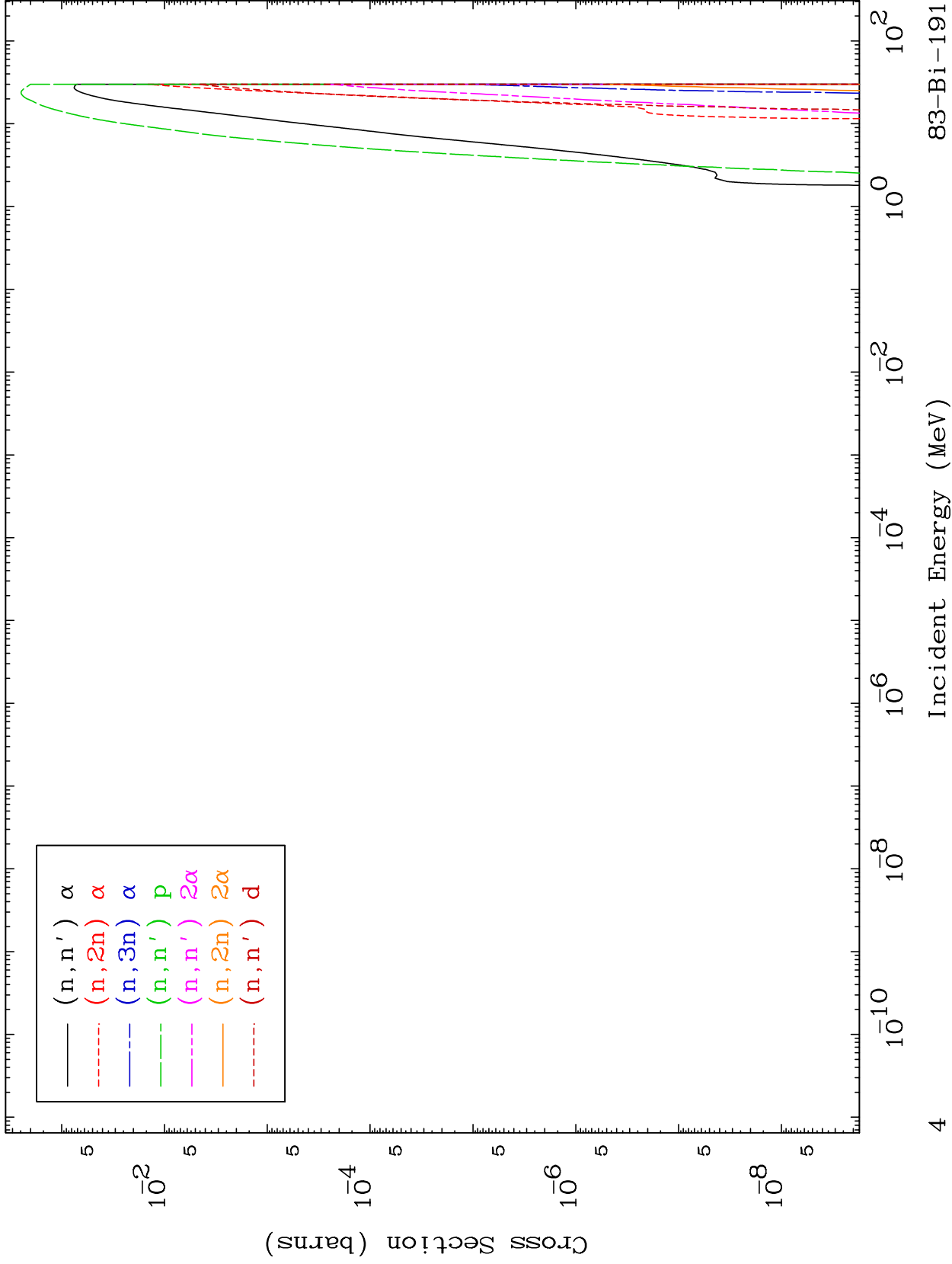
83-Bi-191



MAT 8271

Charged Particle  
293 Kelvin Cross Sections

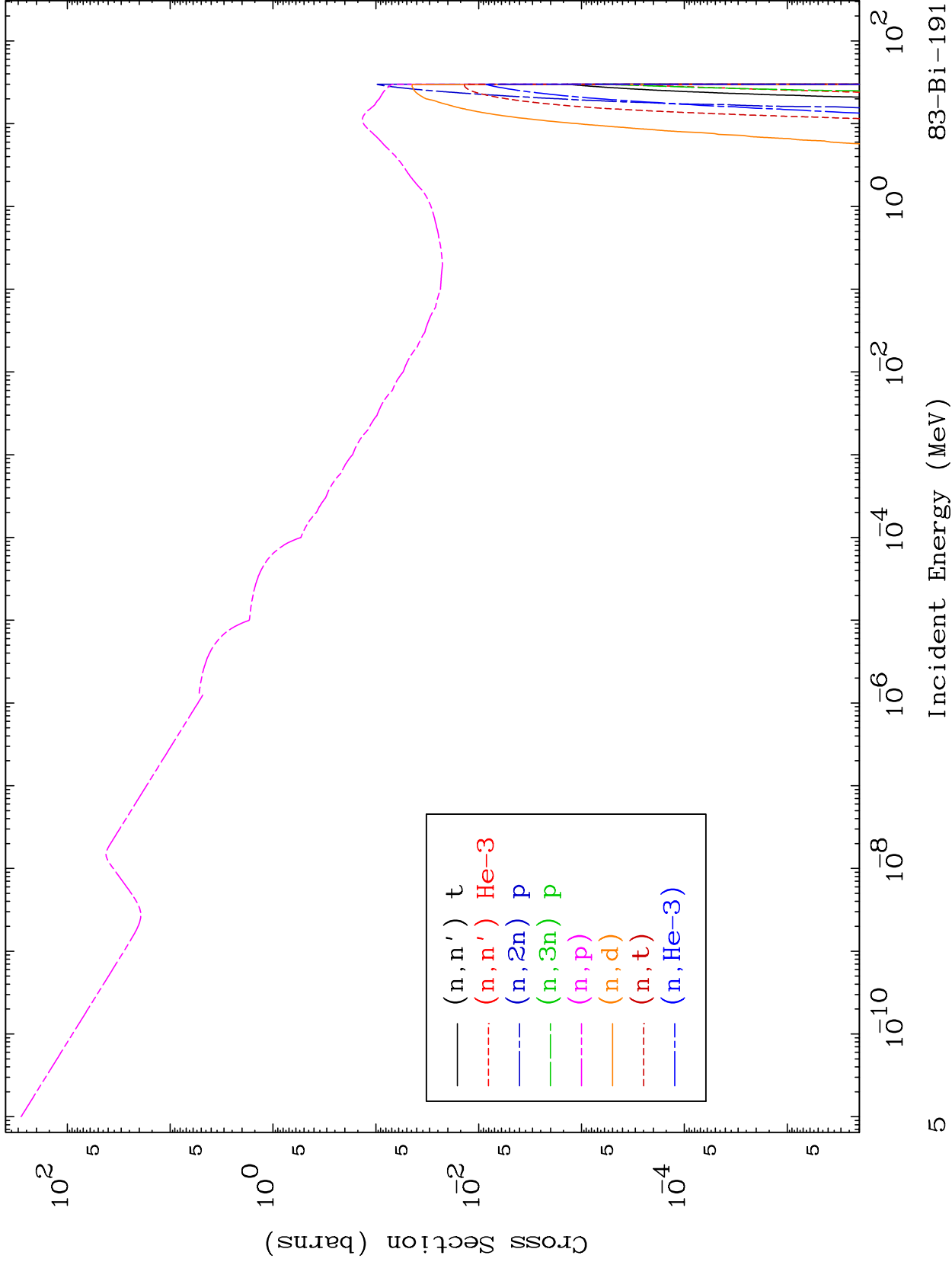
83-Bi-191



MAT 8271

Charged Particle  
293 Kelvin Cross Sections

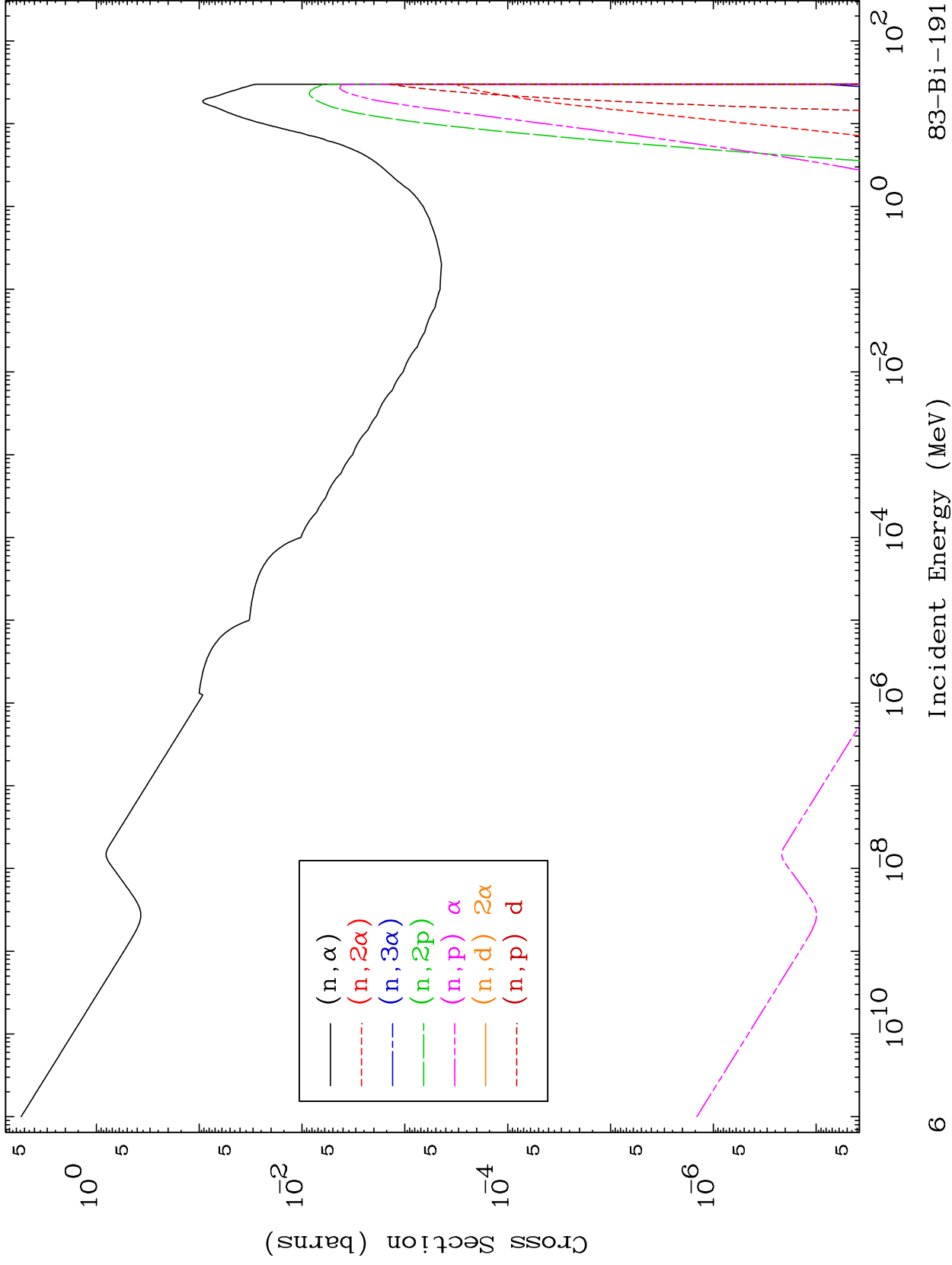
83-Bi-191

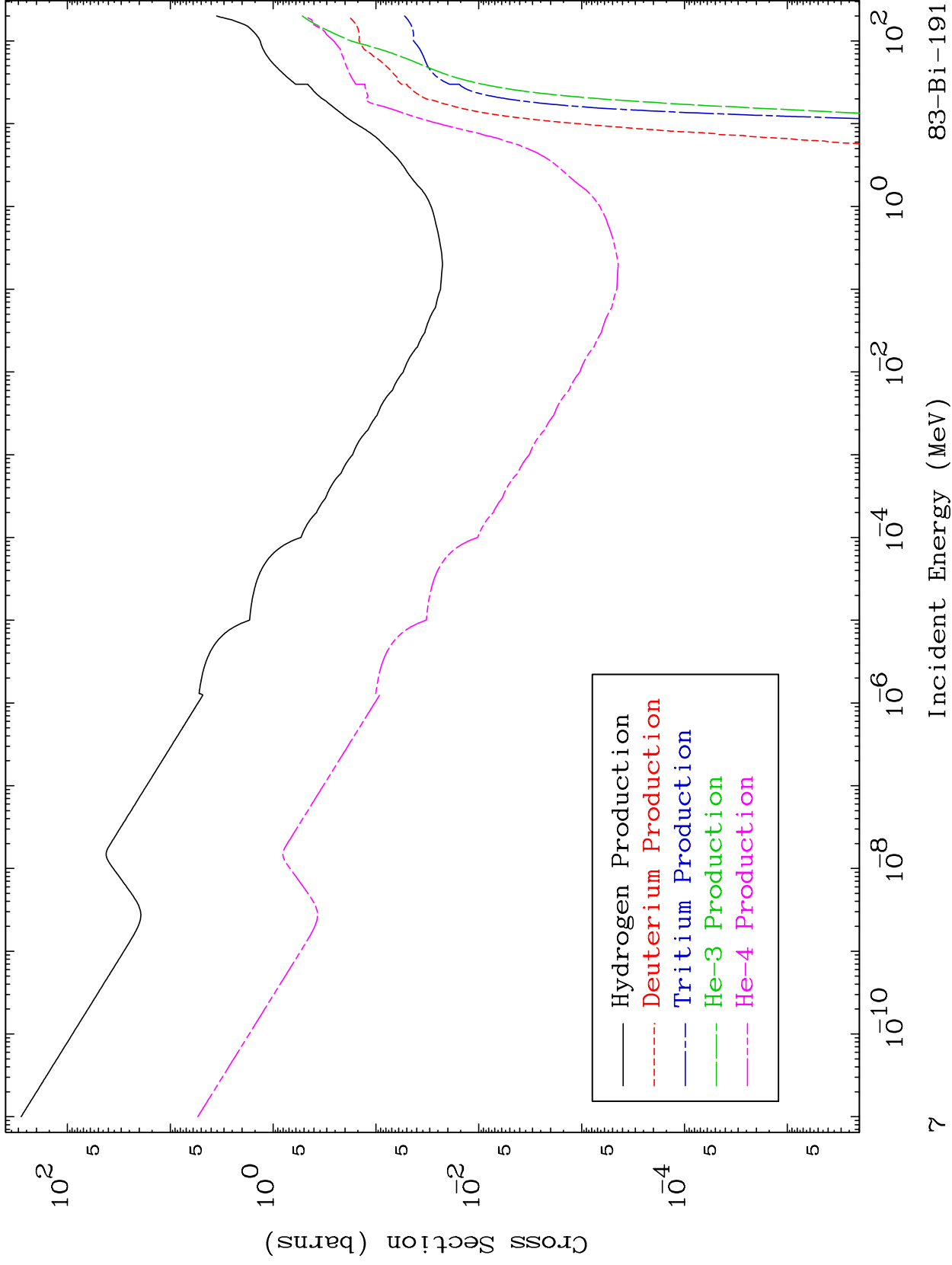


MAT 8271

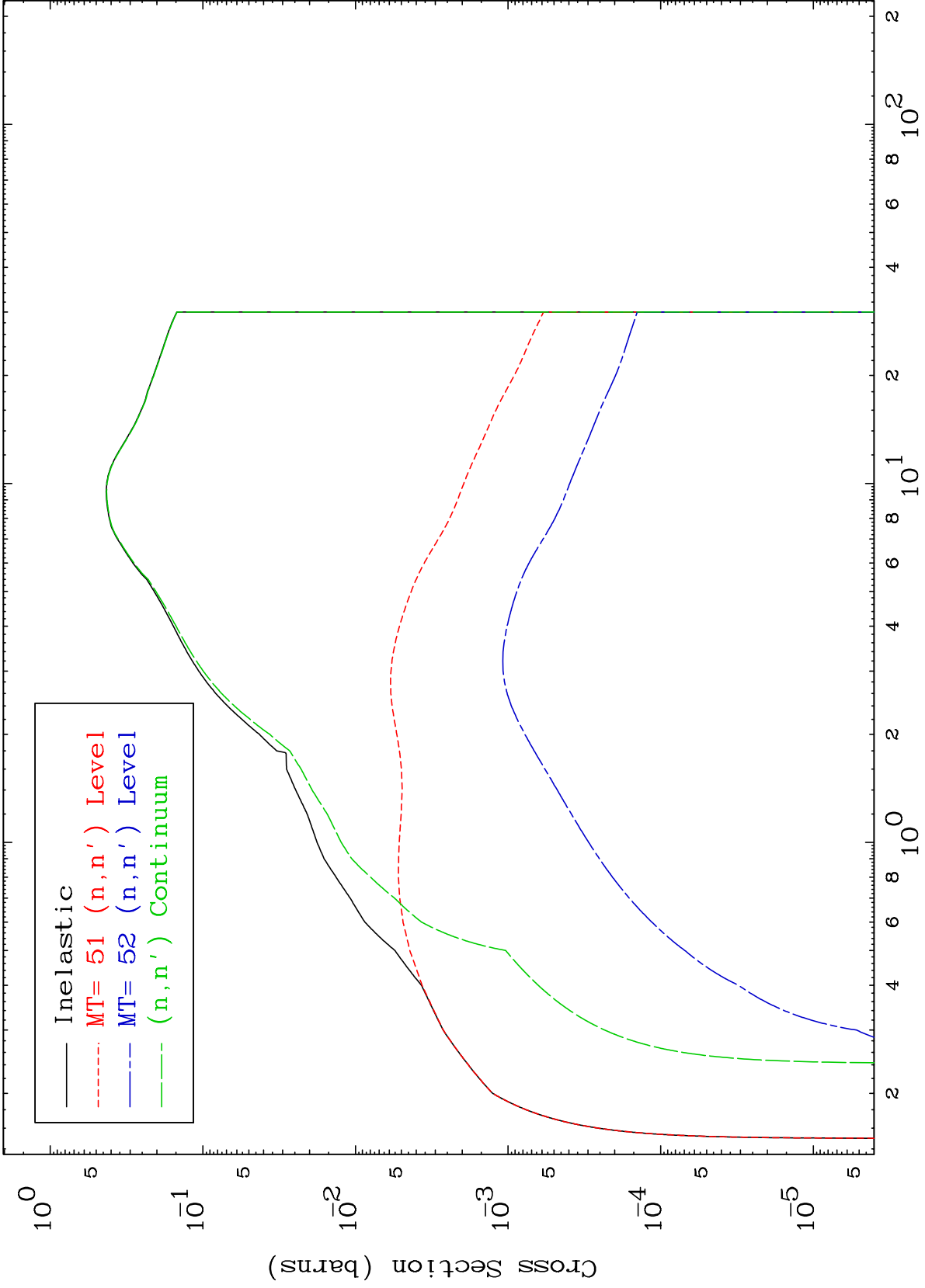
Charged Particle  
293 Kelvin Cross Sections

83-Bi-191





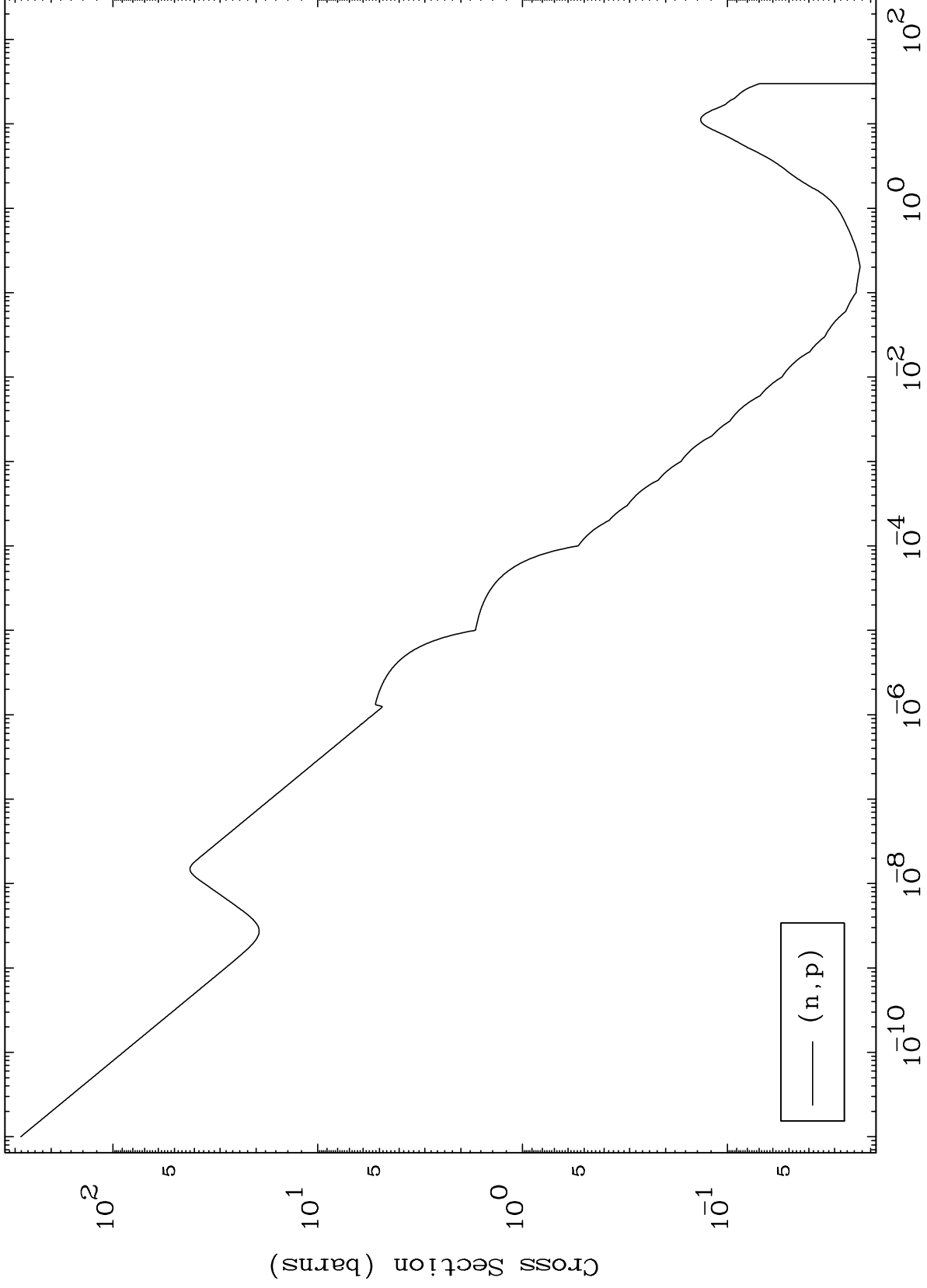




MAT 8271

(n,p) Levels  
293 Kelvin Cross Sections

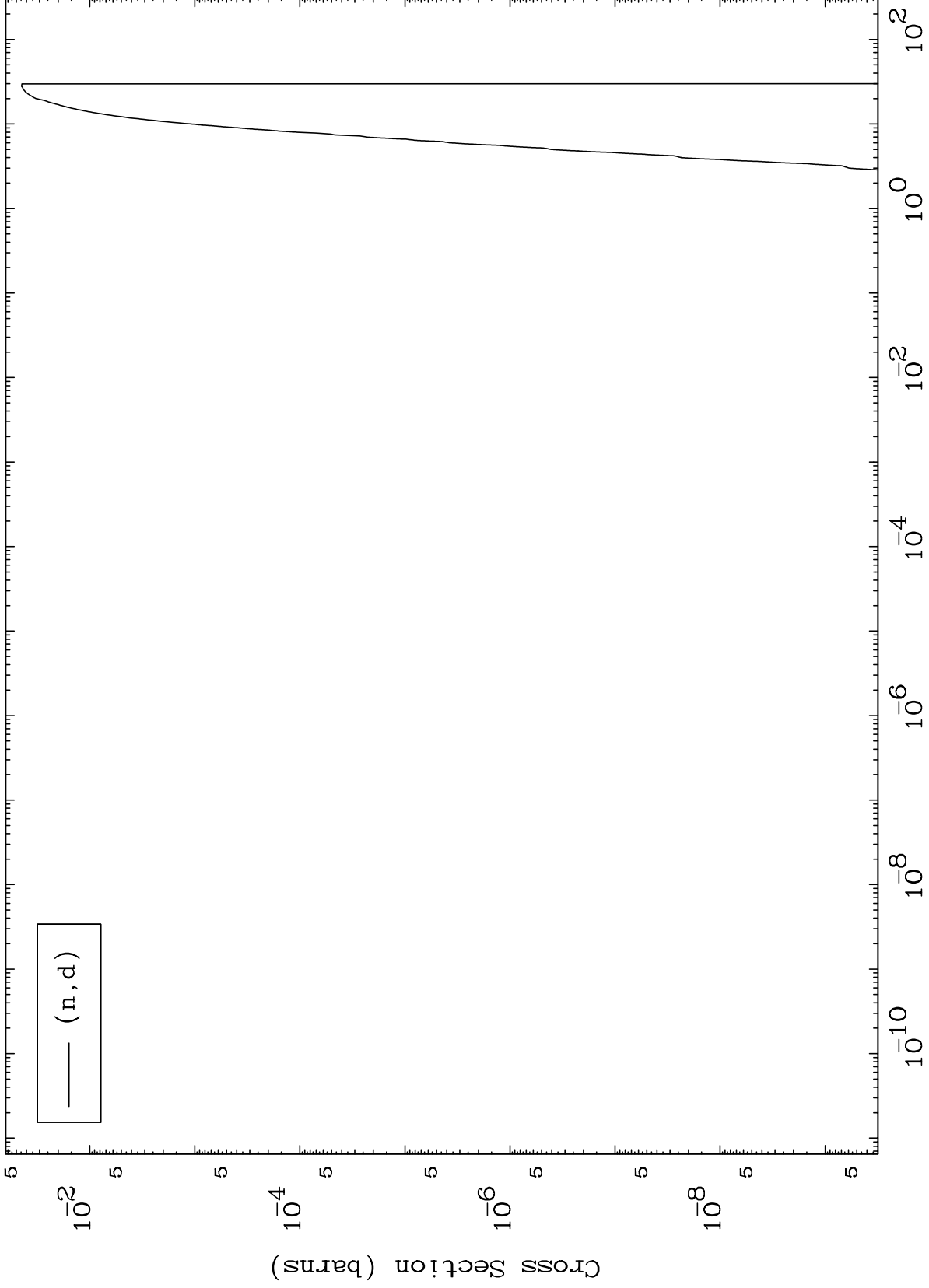
83-Bi-191



MAT 8271

(n,d) Levels  
293 Kelvin Cross Sections

83-Bi-191



10

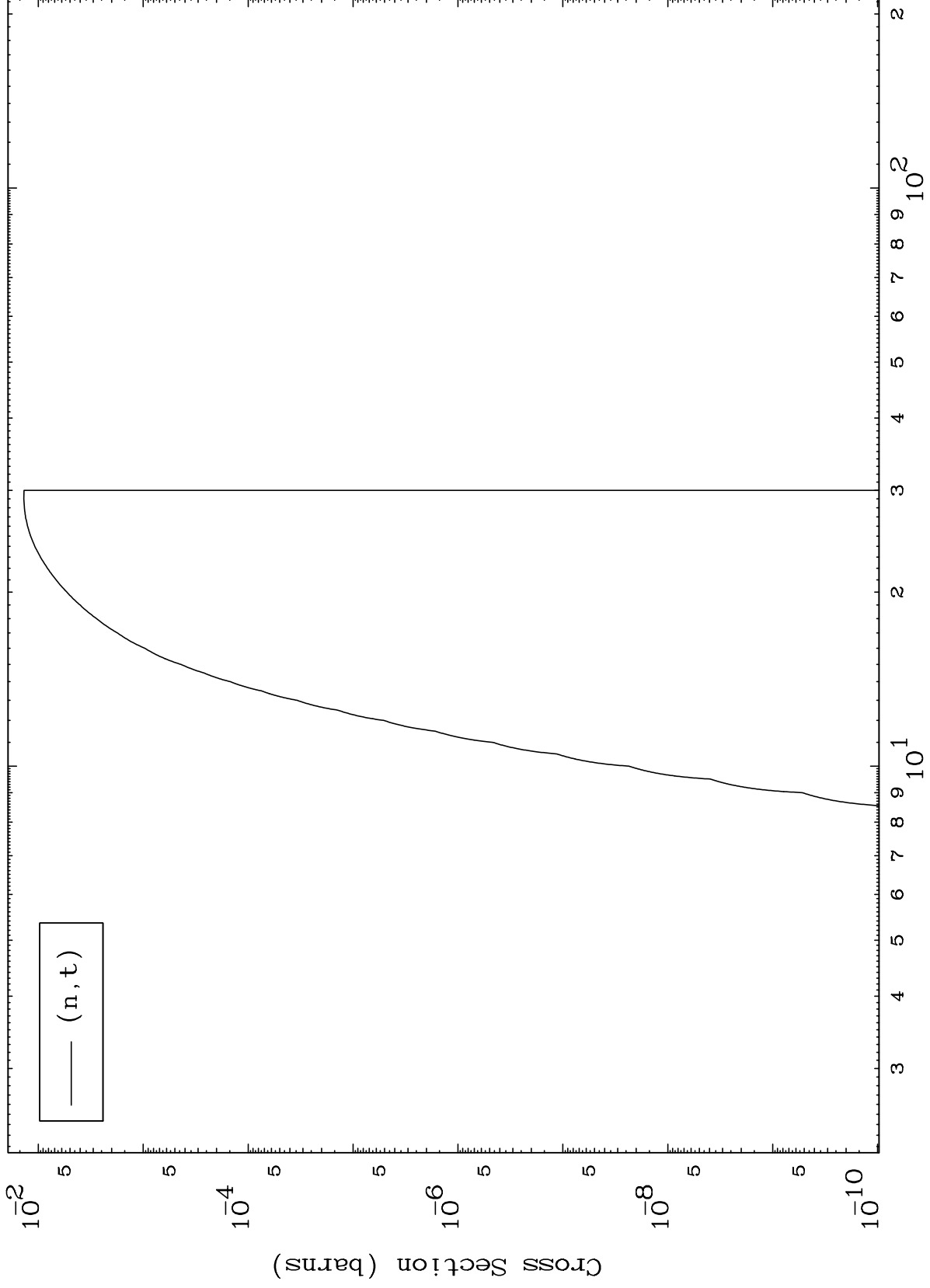
Incident Energy (MeV)

83-Bi-191

MAT 8271

(n,t) Levels  
293 Kelvin Cross Sections

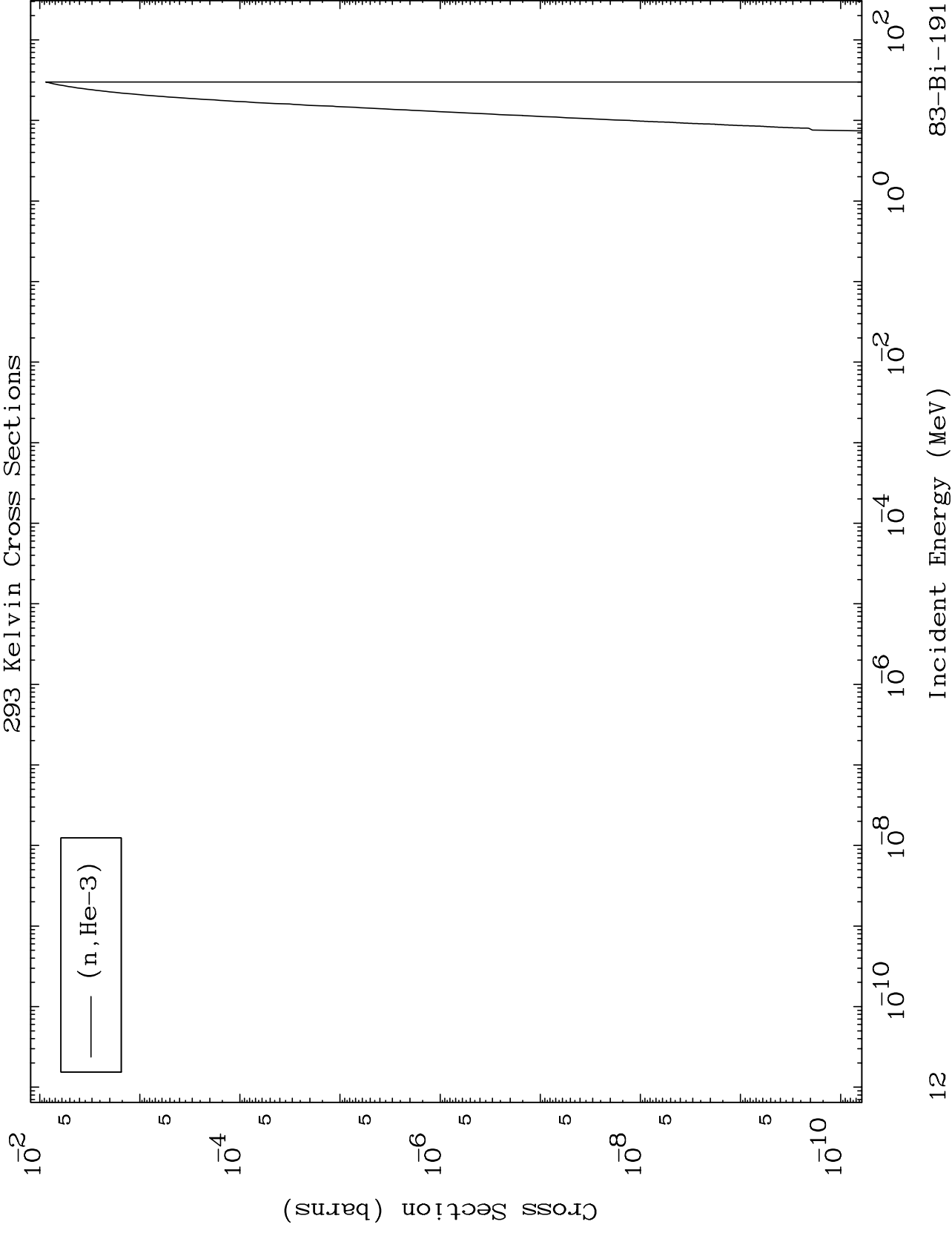
83-Bi-191



MAT 8271

(n,He3) Levels  
293 Kelvin Cross Sections

83-Bi-191



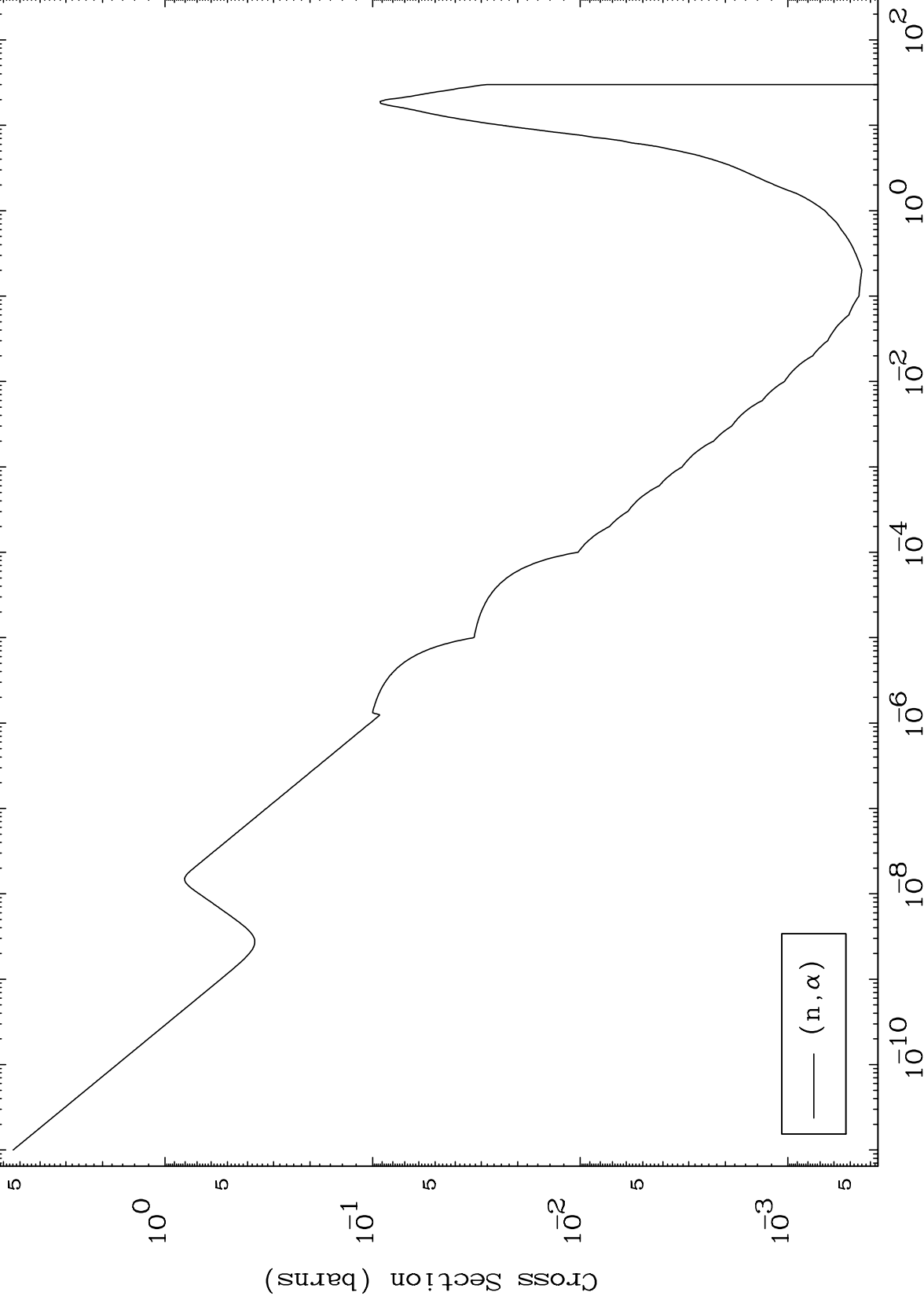
12

83-Bi-191

MAT 8271

(n,α) Levels  
293 Kelvin Cross Sections

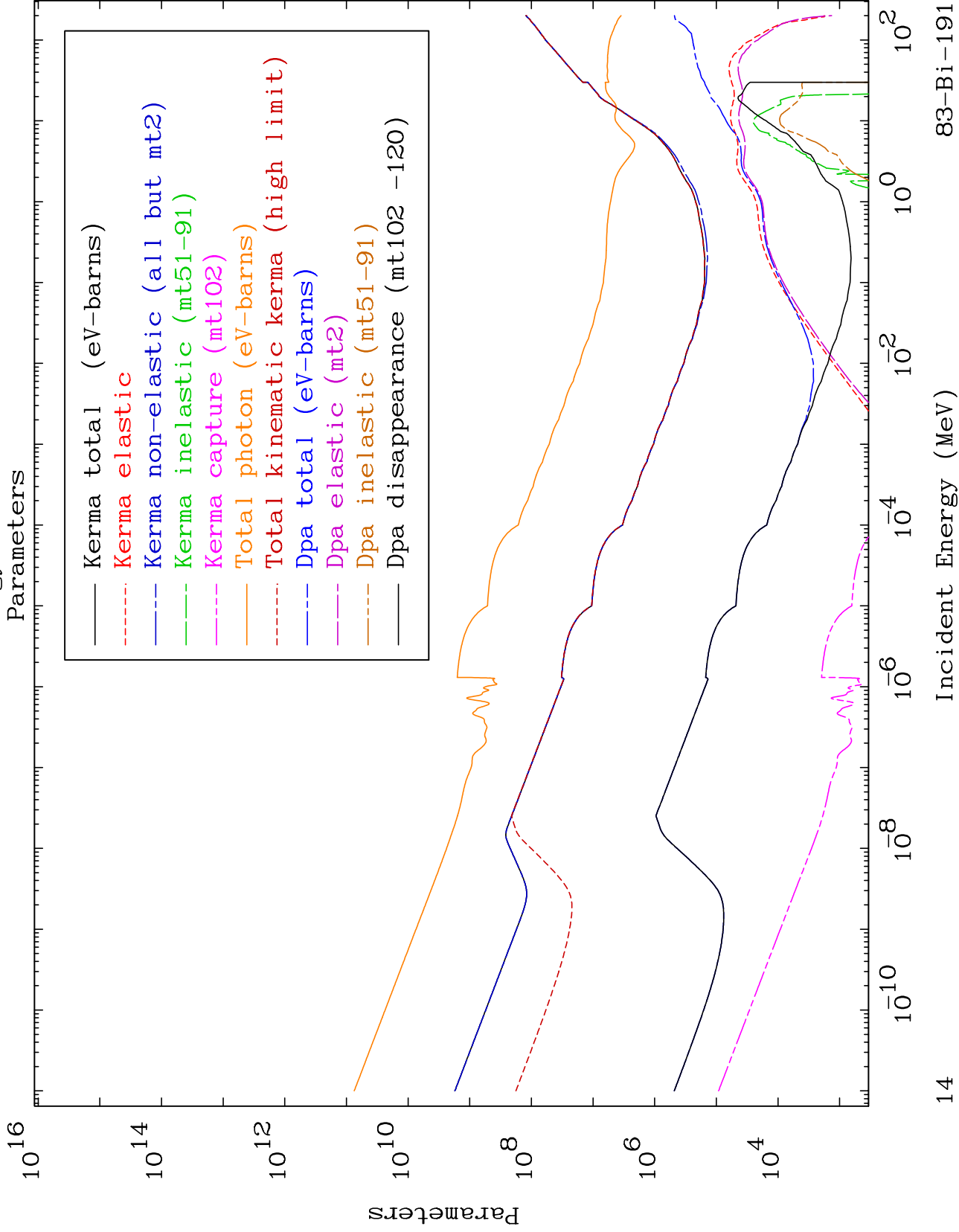
83-Bi-191

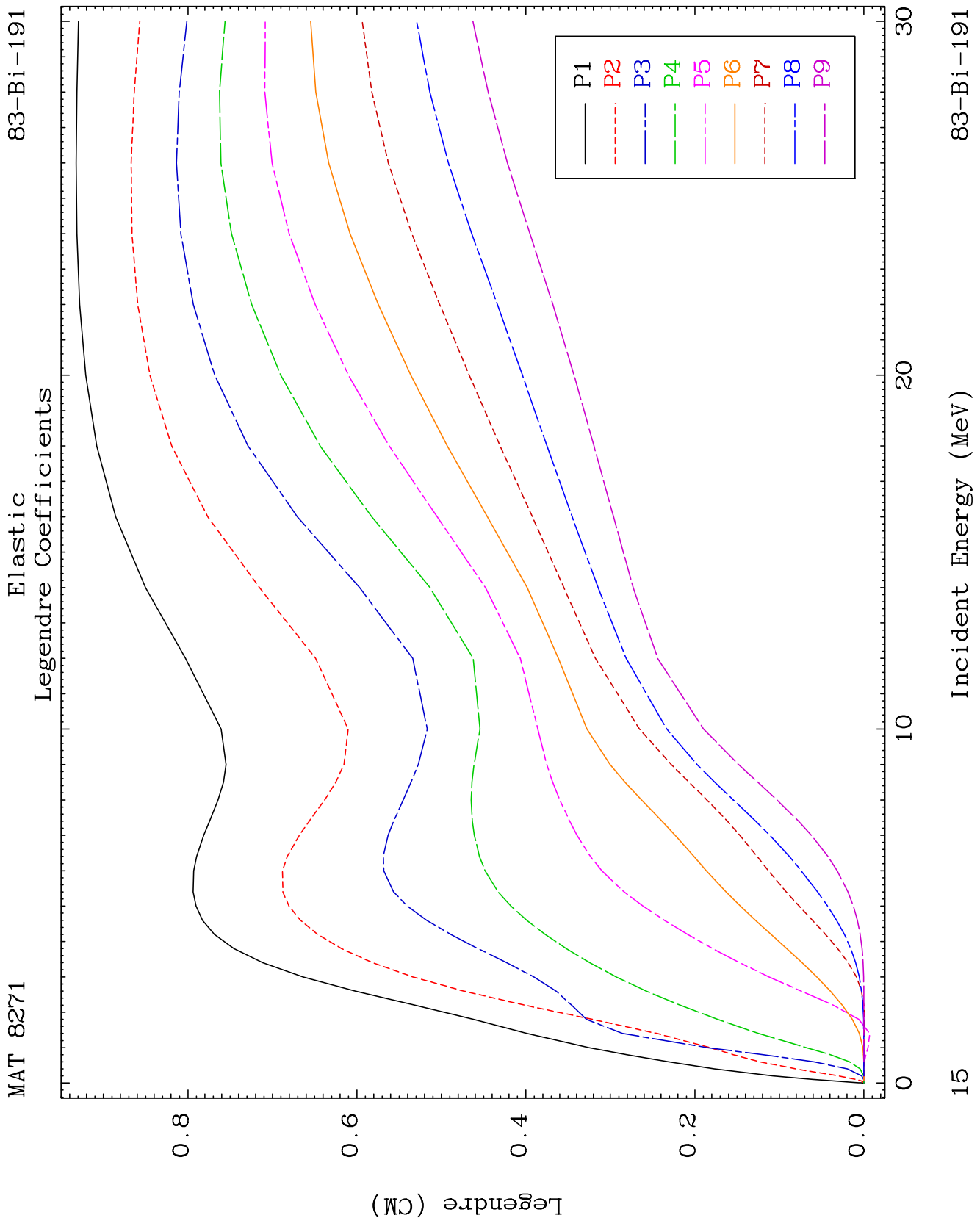


13

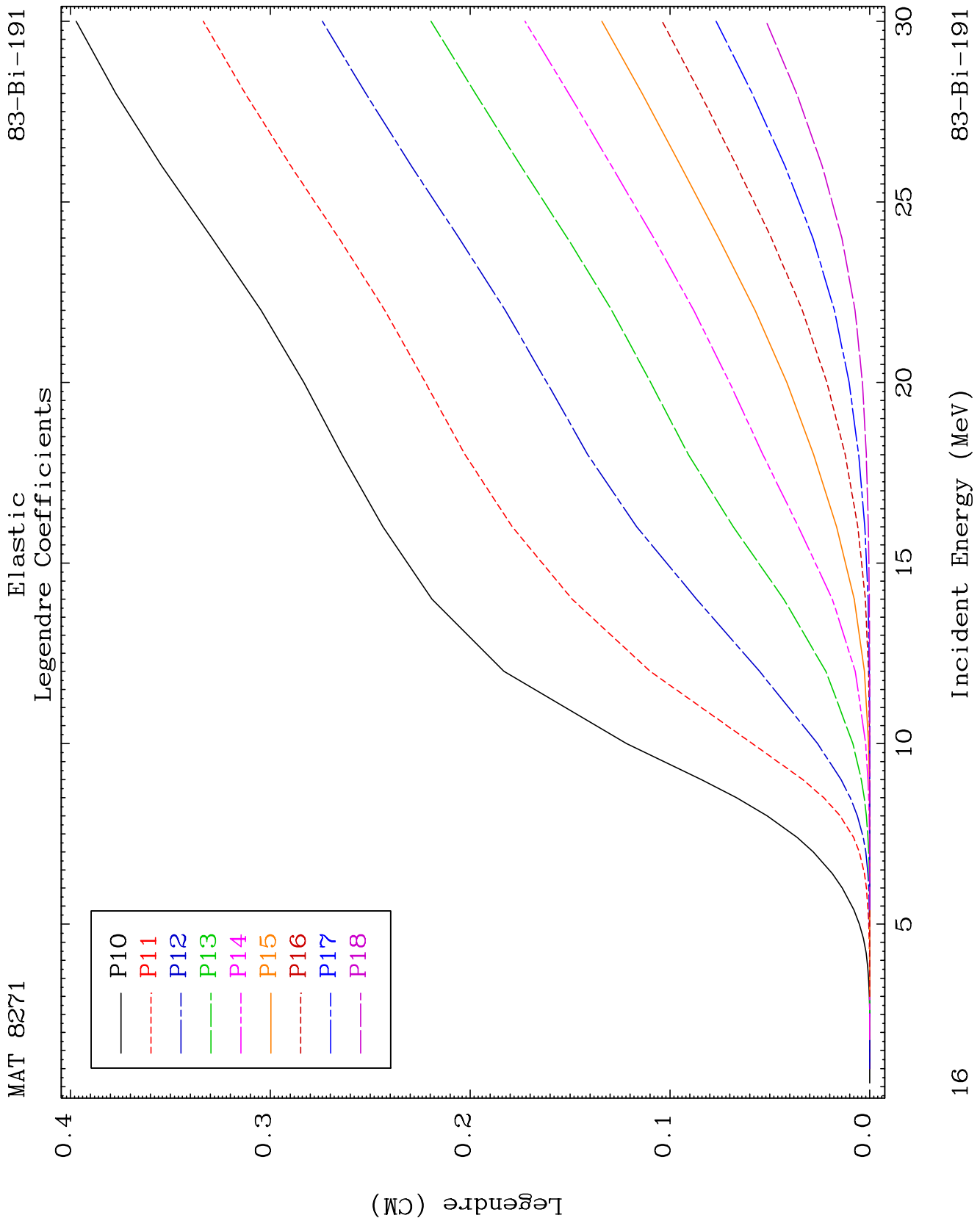
Incident Energy (MeV)

83-Bi-191





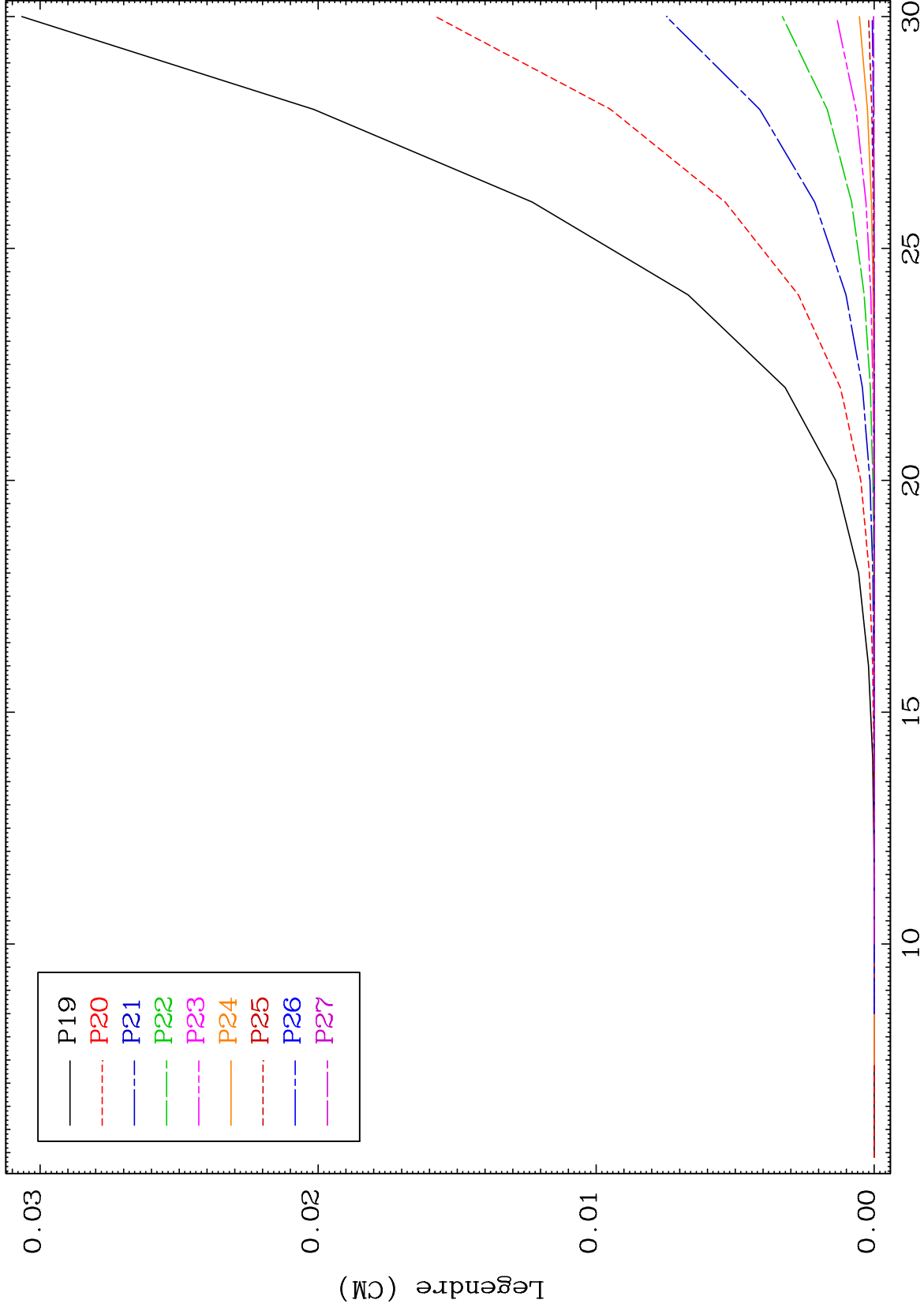




MAT 8271

### Elastic Legendre Coefficients

83-Bi-191



17

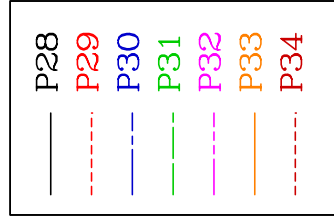
Incident Energy (MeV)

83-Bi-191

MAT 8271

Elastic  
Legendre Coefficients

83-Bi-191



$\times 10^{-6}$

Legendre (CM)

8

6

4

2

0

15

20

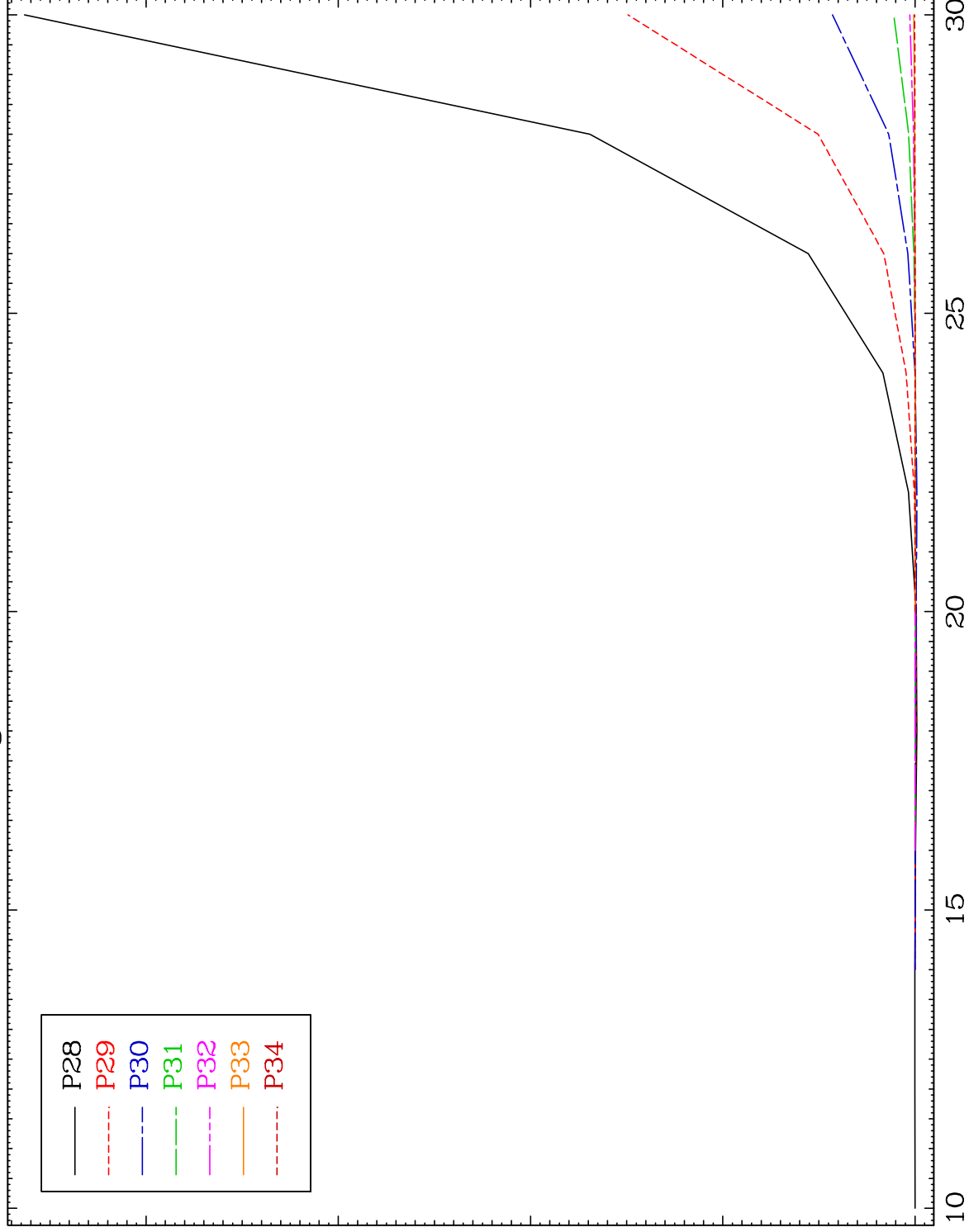
25

30

18

Incident Energy (MeV)

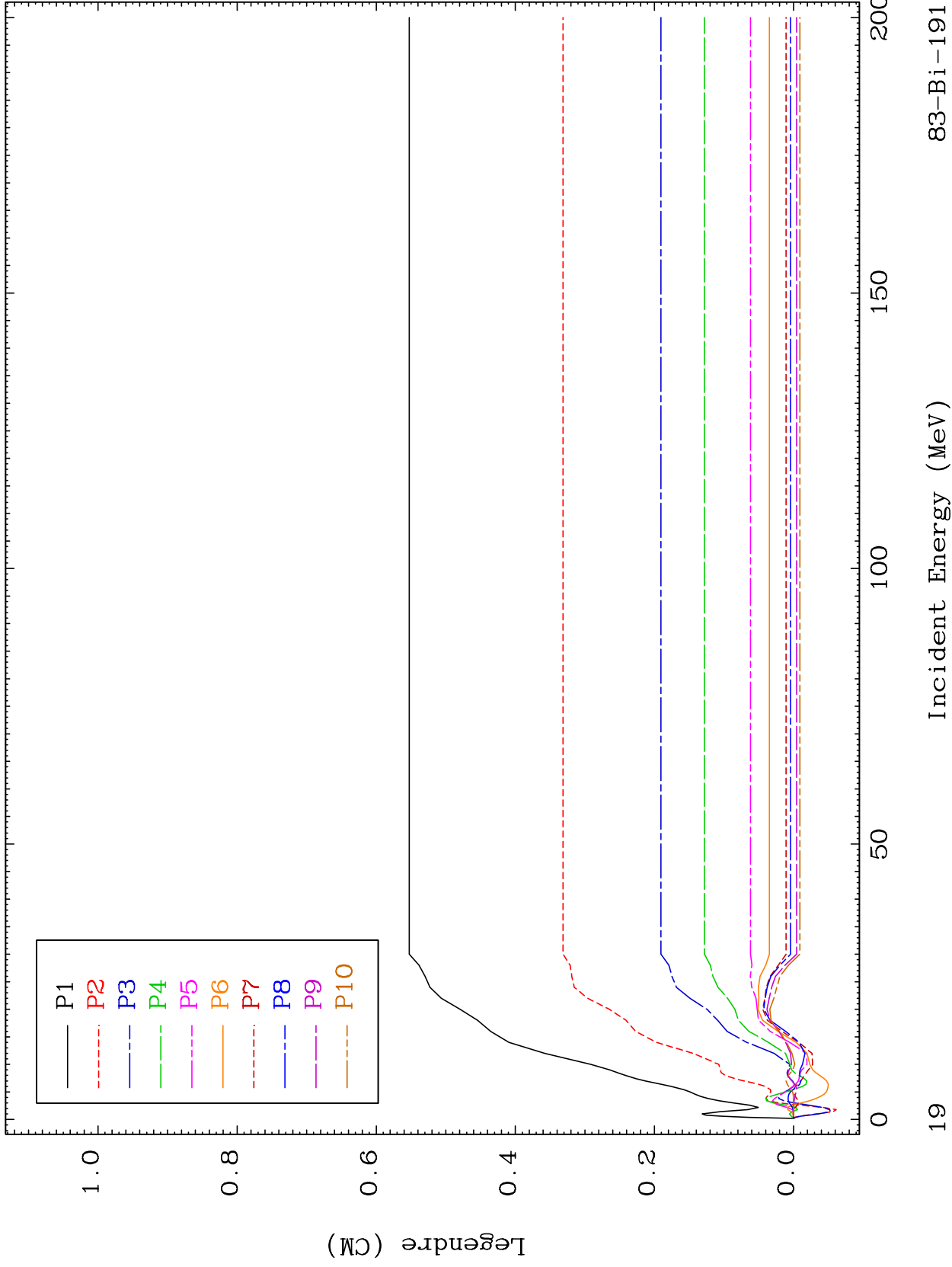
83-Bi-191



MAT 8271

MT= 51 (n,n') Level  
Legendre Coefficients

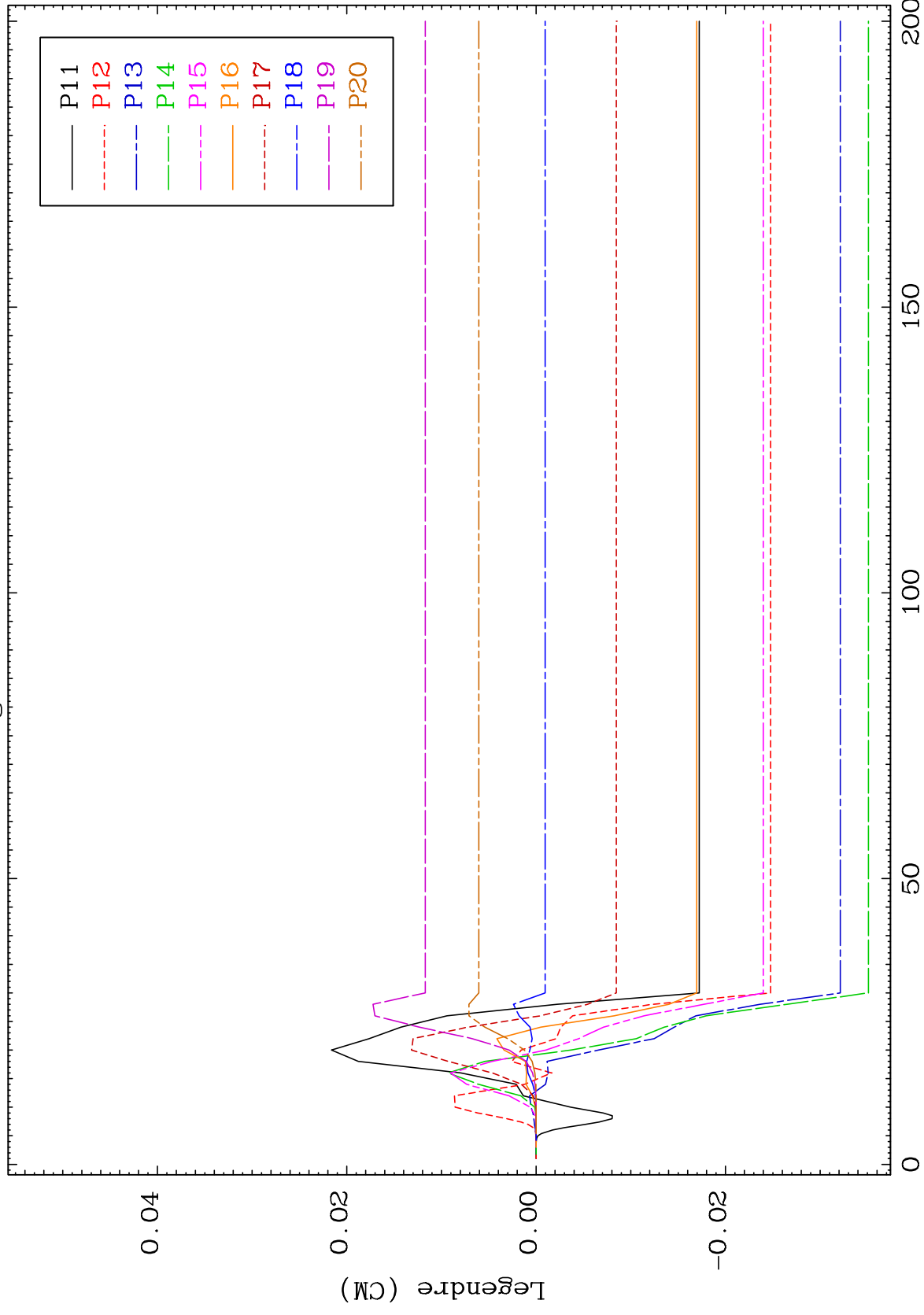
83-Bi-191



MAT 8271

MT= 51 (n,n') Level  
Legendre Coefficients

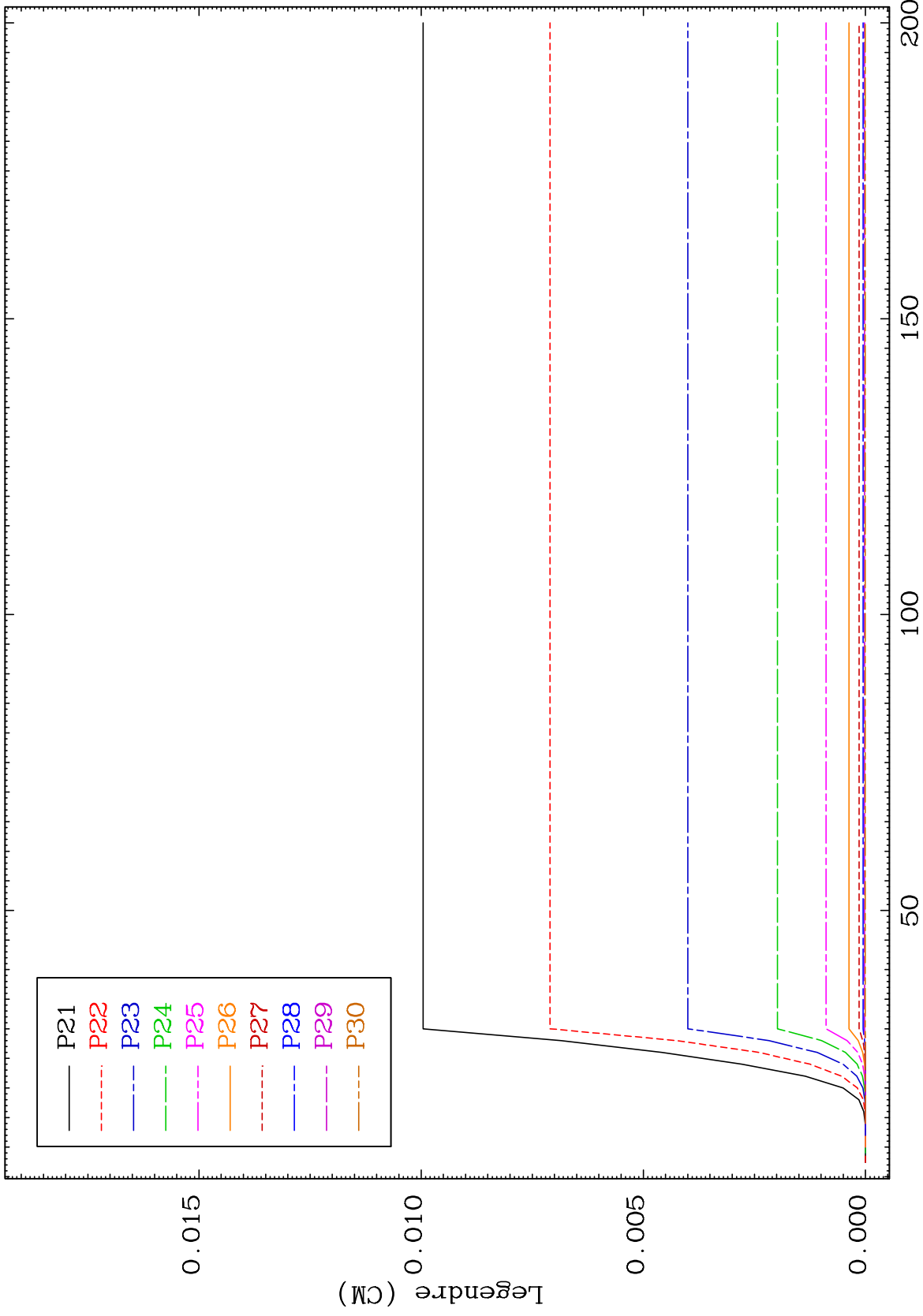
83-Bi-191

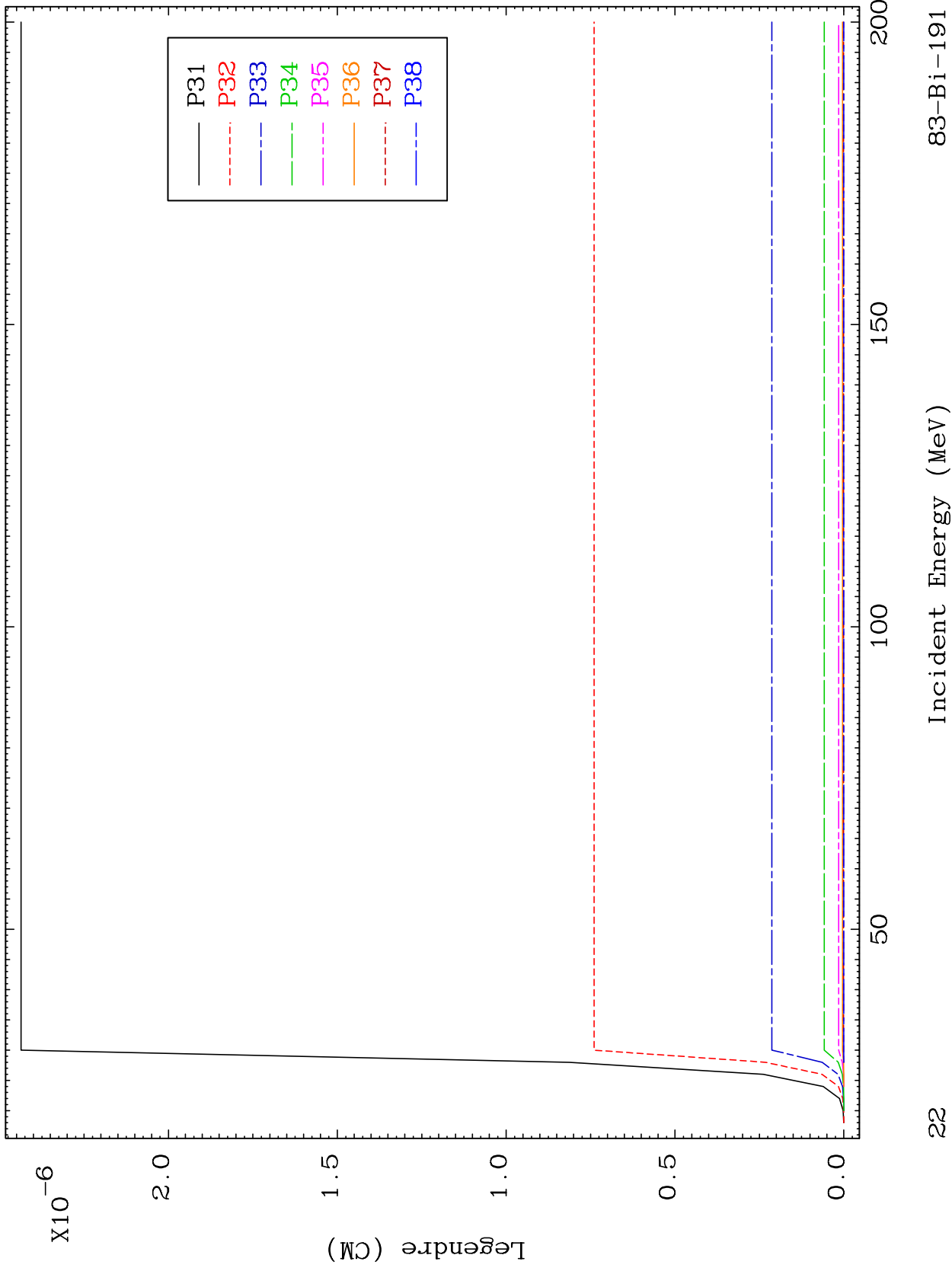


83-Bi-191

Incident Energy (MeV)

20

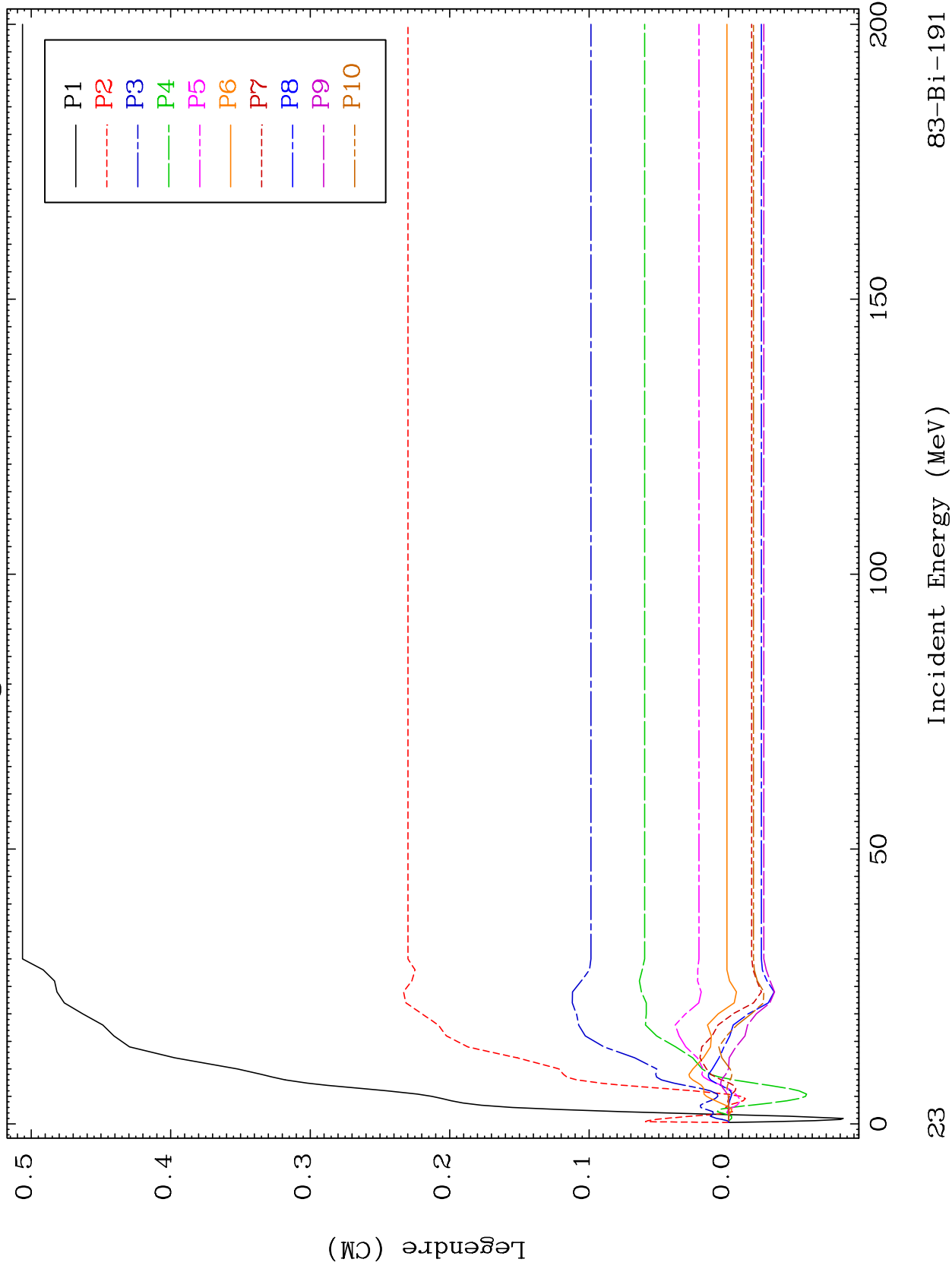




MAT 8271

MT= 52 (n,n') Level  
Legendre Coefficients

83-Bi-191



83-Bi-191

Incident Energy (MeV)

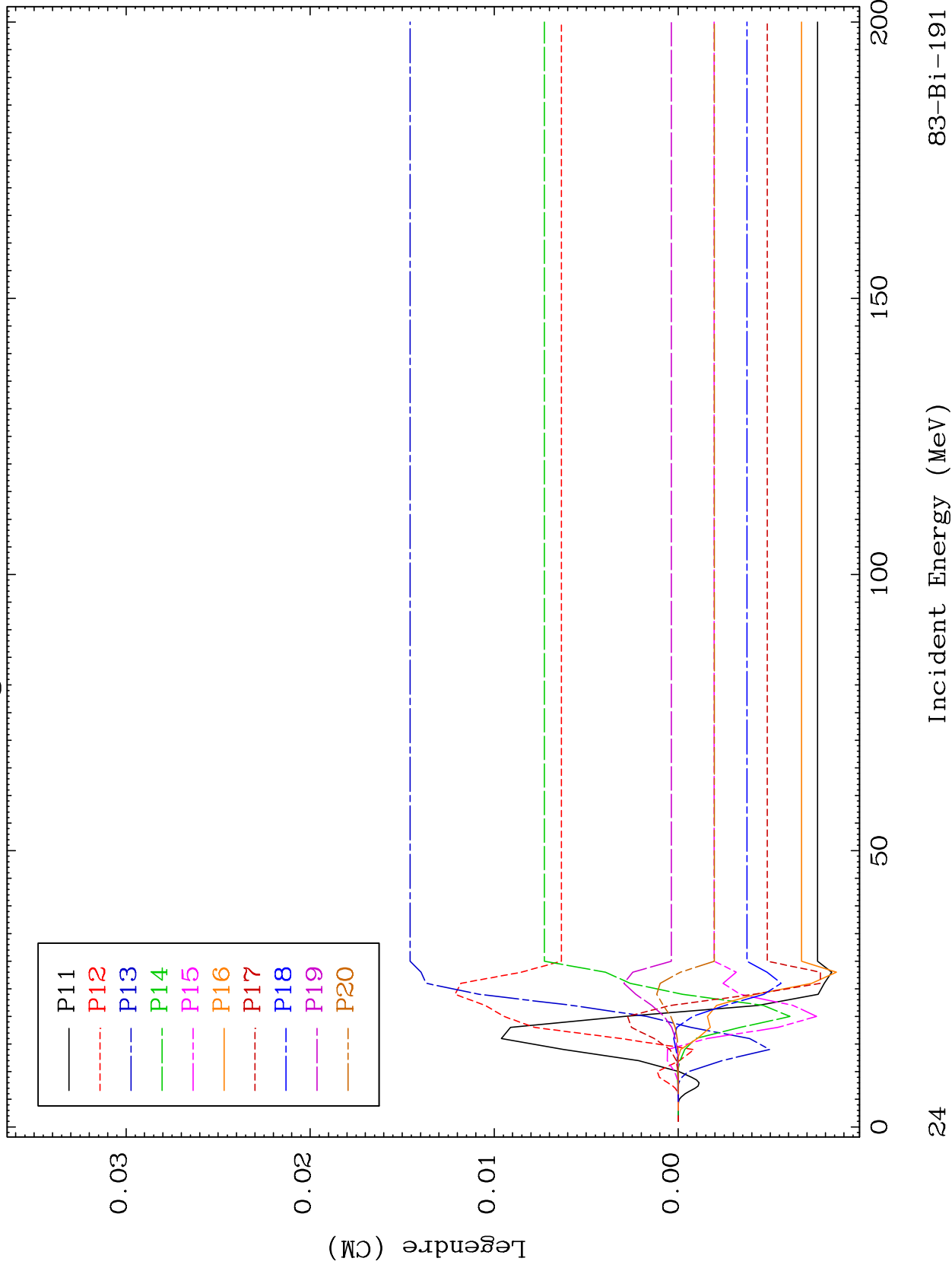
23



MAT 8271

MT= 52 (n,n') Level  
Legendre Coefficients

83-Bi-191



24

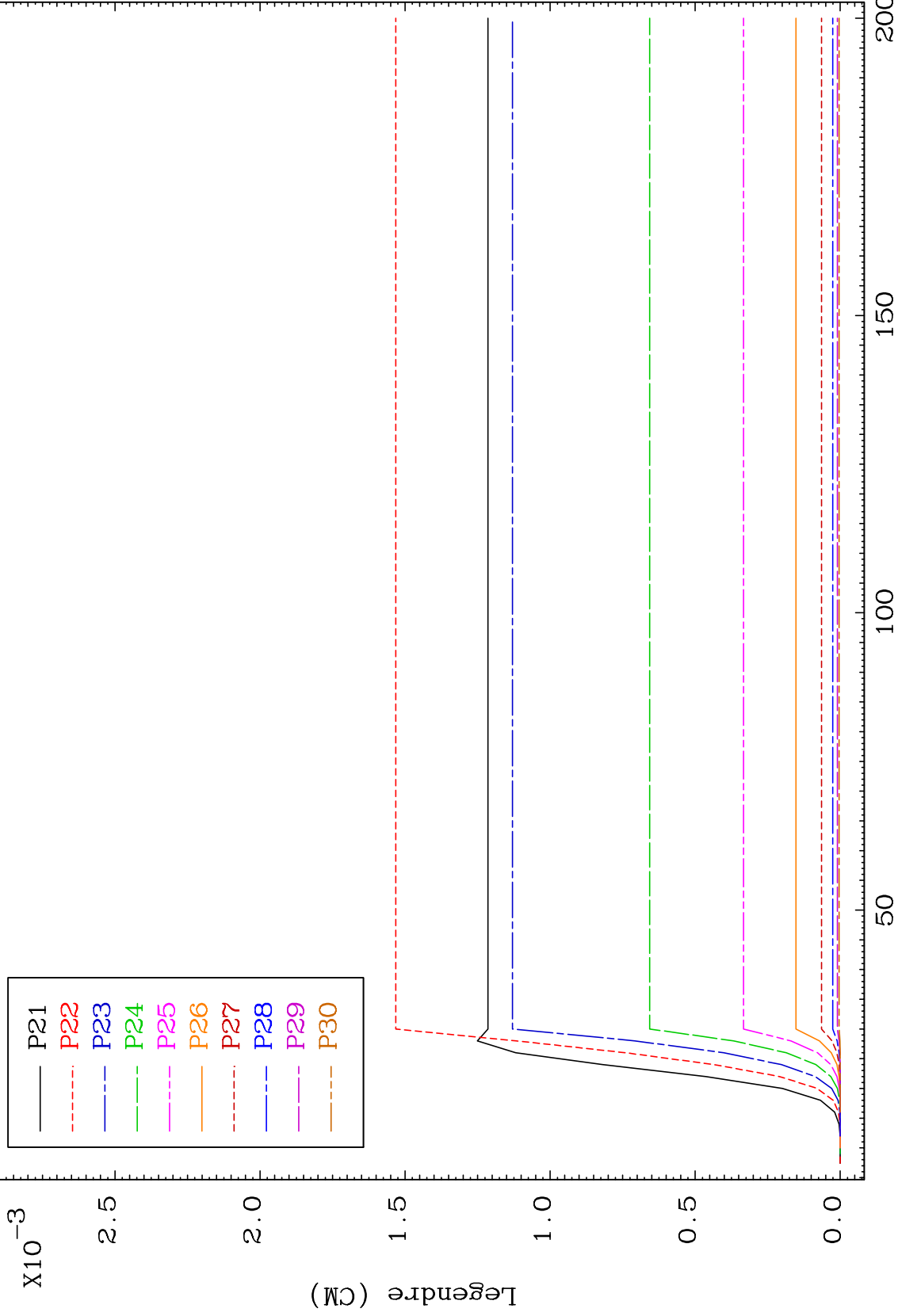
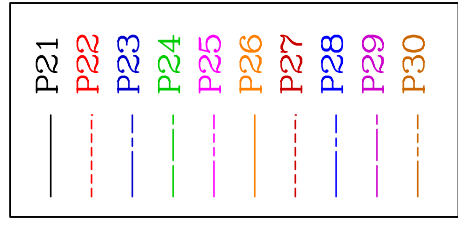
Incident Energy (MeV)

83-Bi-191

MAT 8271

MT= 52 (n,n') Level  
Legendre Coefficients

83-Bi-191



25

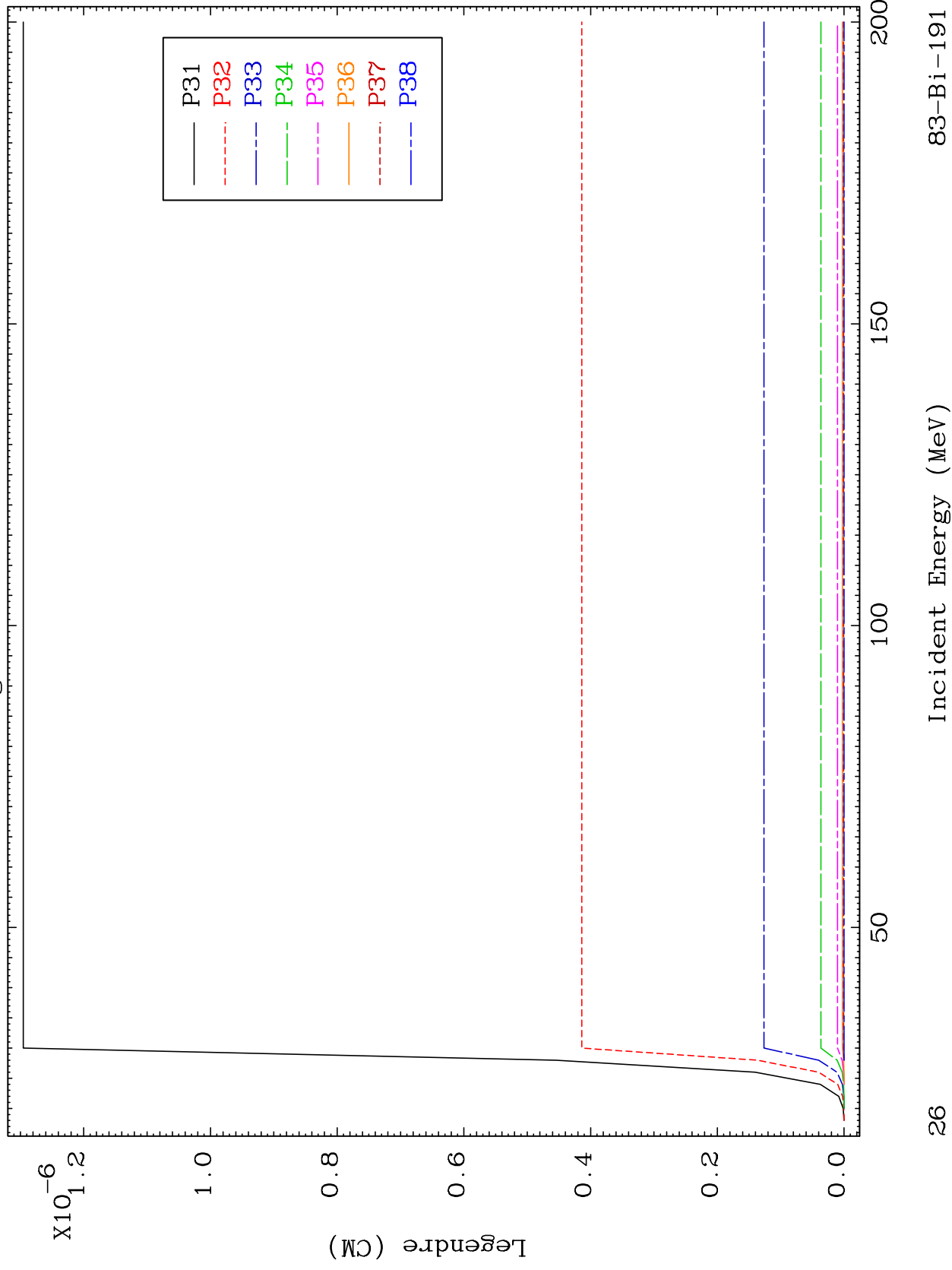
Incident Energy (MeV)

83-Bi-191

MAT 8271

MT= 52 (n,n') Level  
Legendre Coefficients

83-Bi-191



26

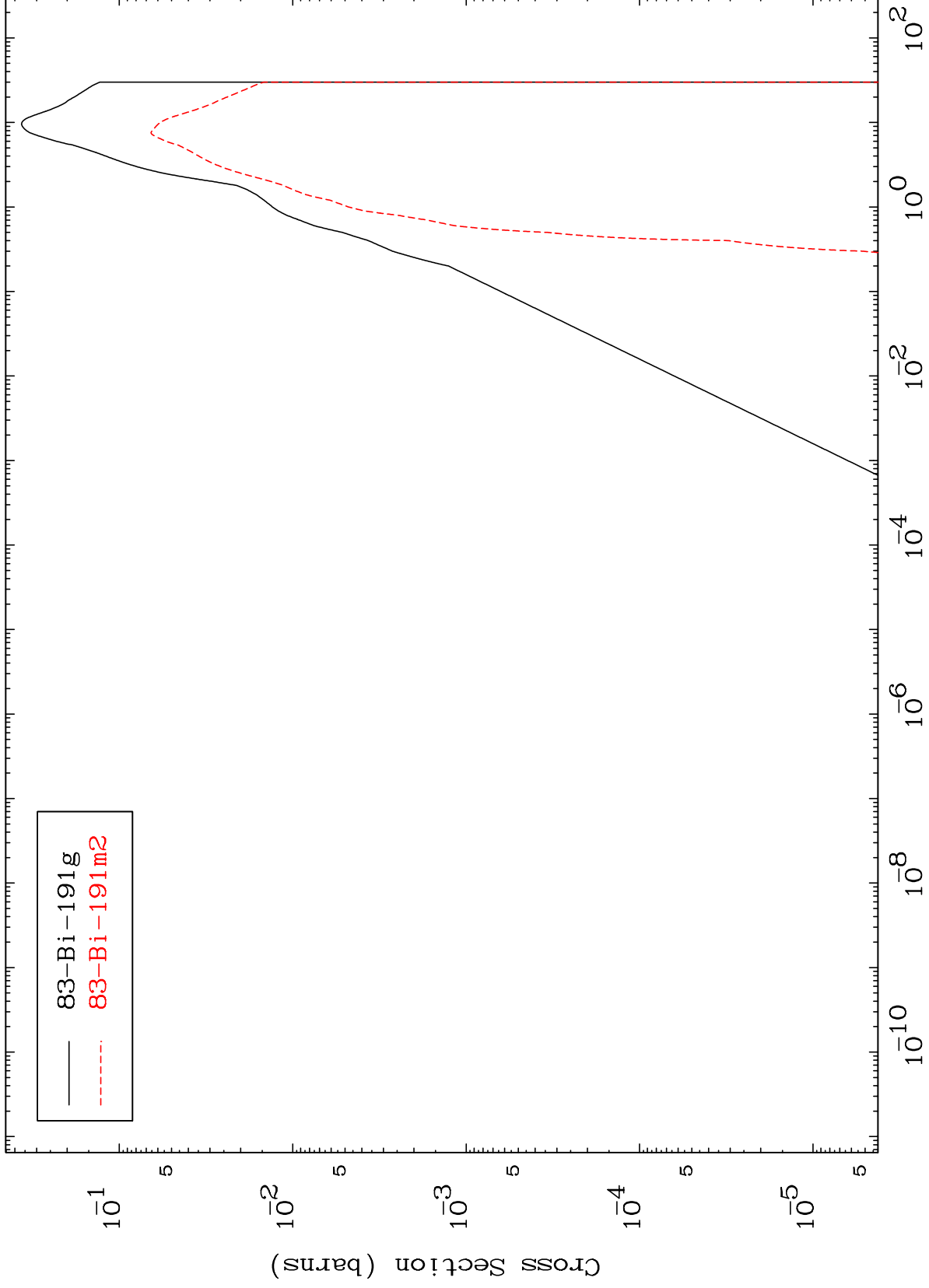
Incident Energy (MeV)

83-Bi-191

MAT 8271

Inelastic  
Radionuclide Production Cross Section

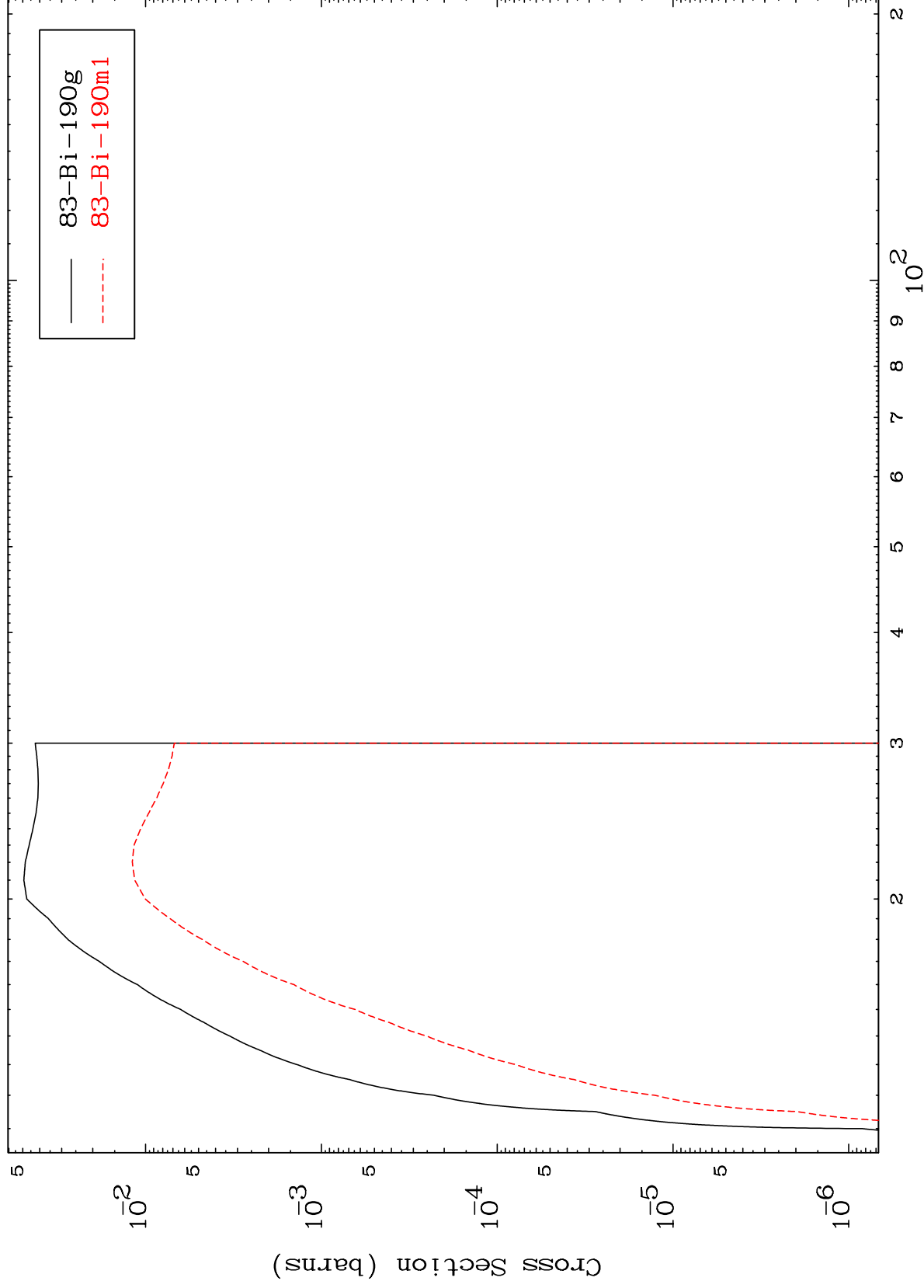
83-Bi-191



27

83-Bi-191

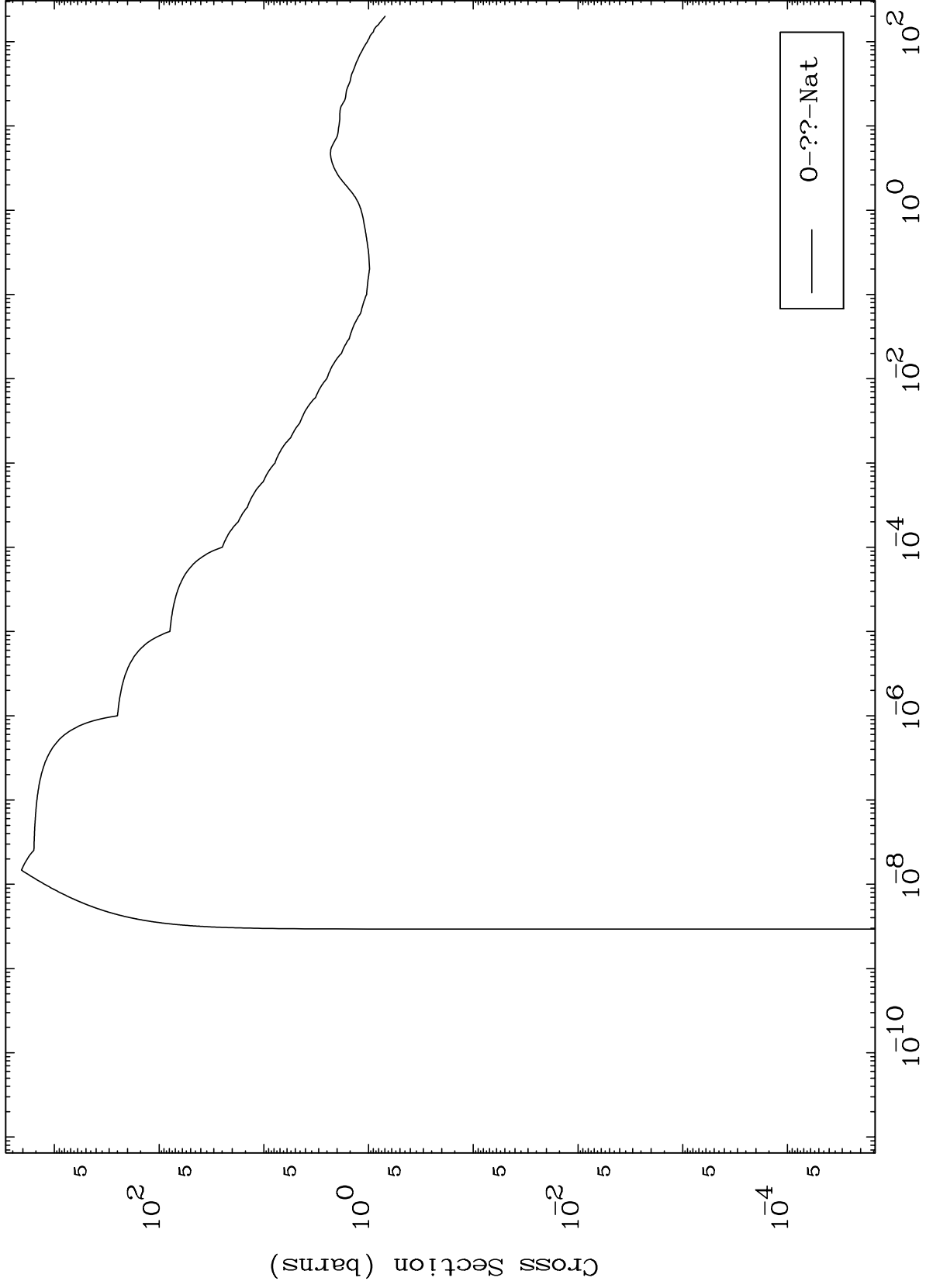
(n,2n)  
Radionuclide Production Cross Section



MAT 8271

83-Bi-191

Fission  
Radionuclide Production Cross Section

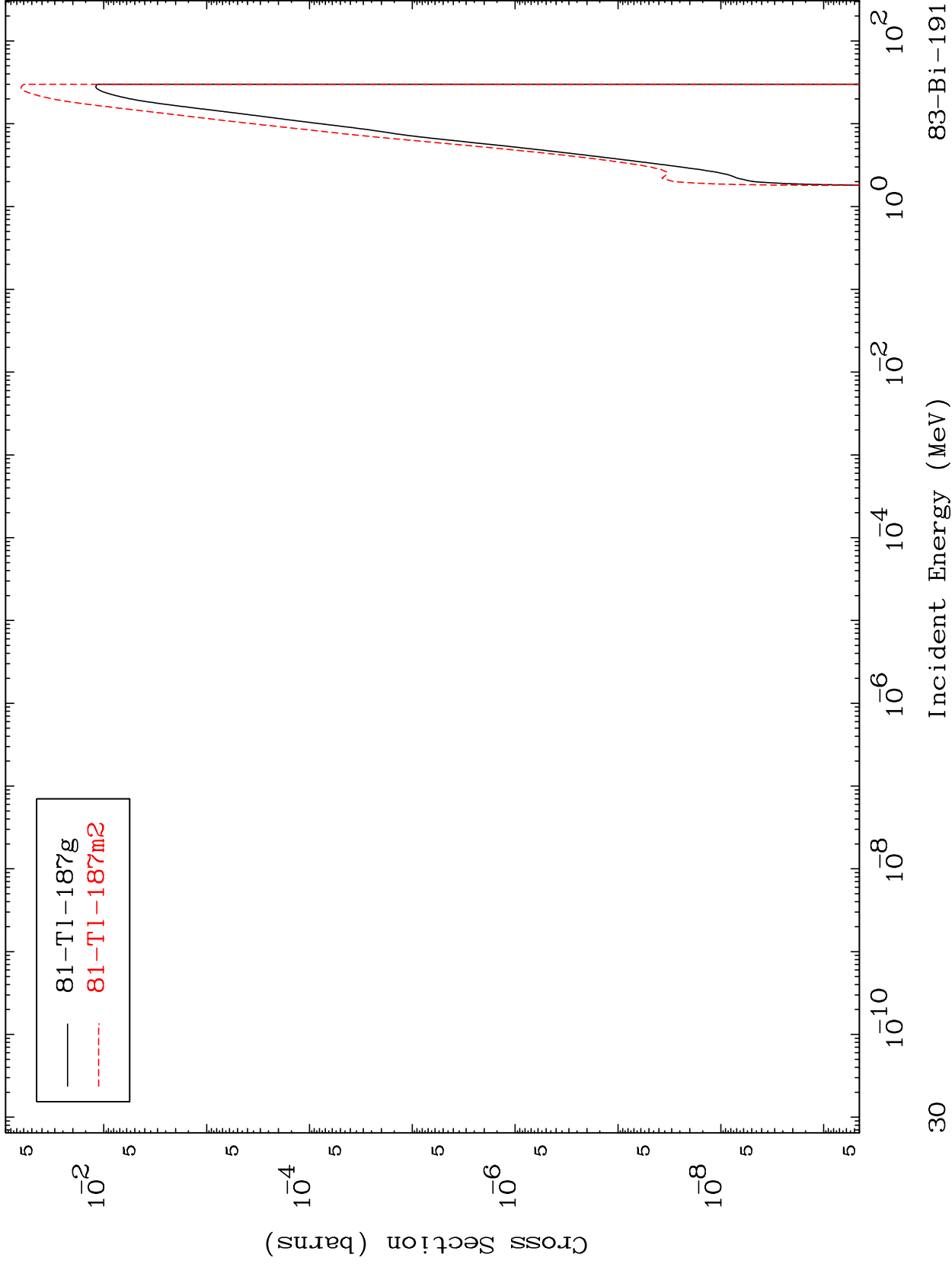


MAT 8271

$(n, n') \alpha$

83-Bi-191

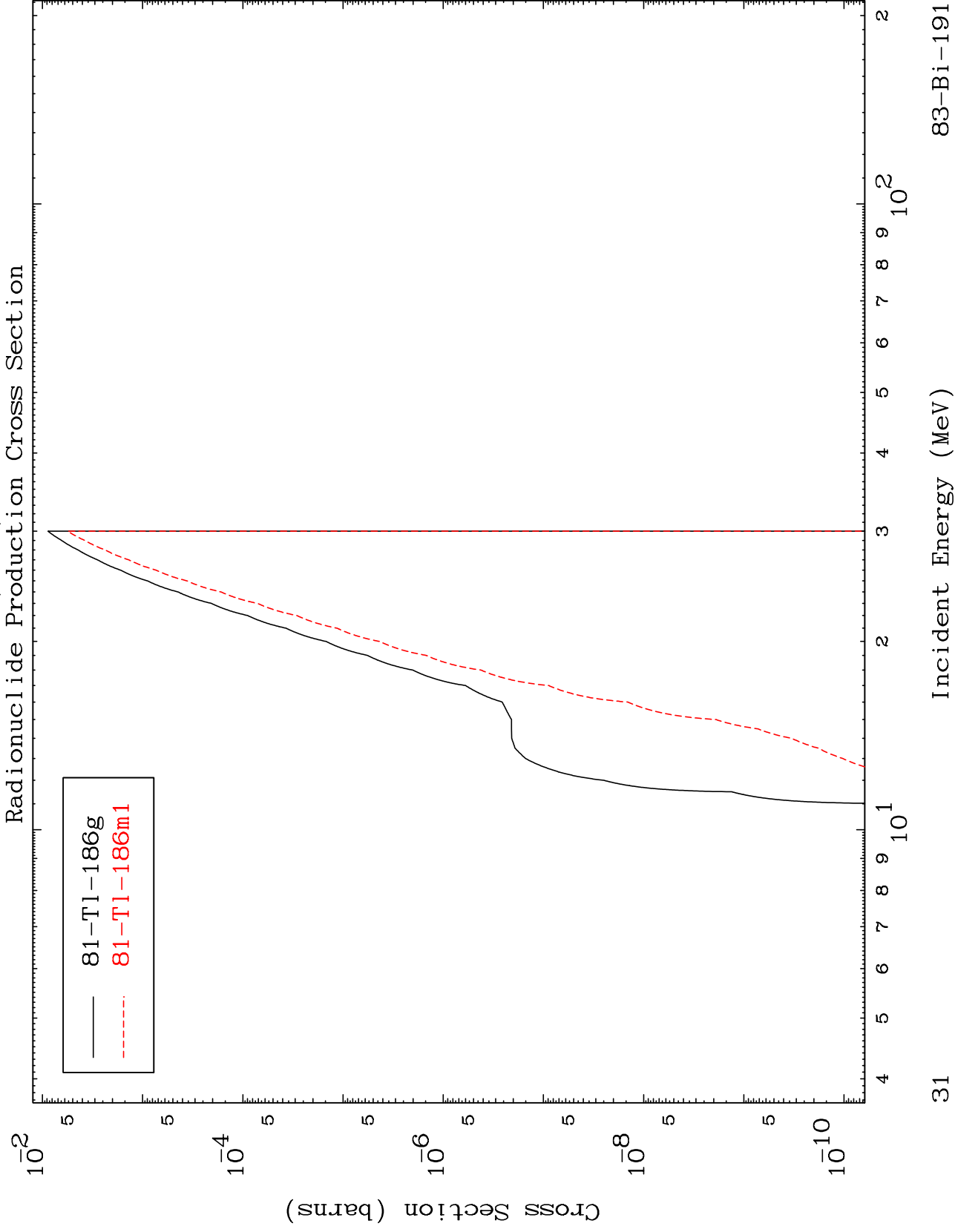
Radionuclide Production Cross Section



MAT 8271

$(n,2n) \alpha$

83-Bi-191



31

Incident Energy (MeV)

83-Bi-191

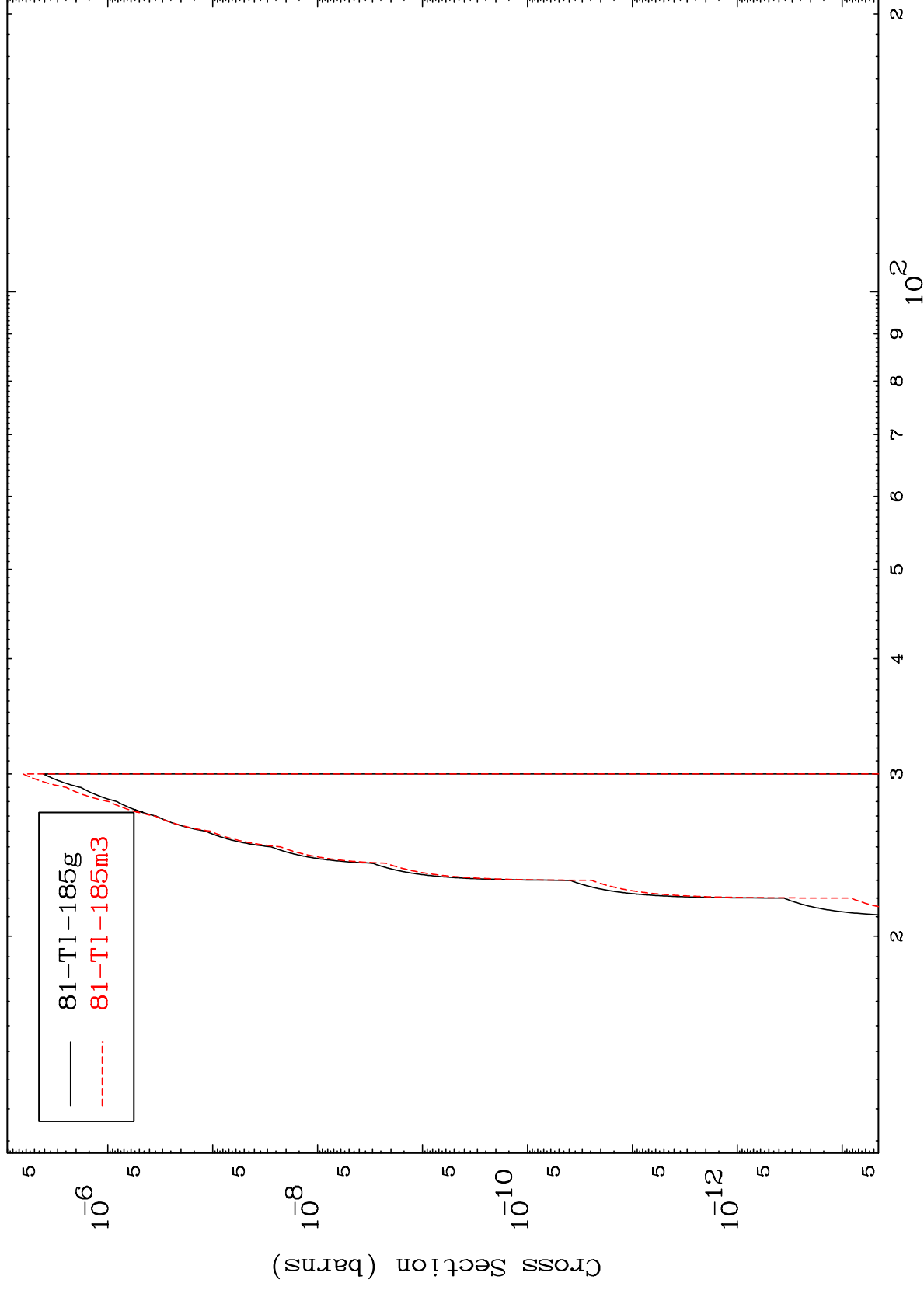


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83-Bi-191

(n,3n)  $\alpha$

Radionuclide Production Cross Section



32

Incident Energy (MeV)

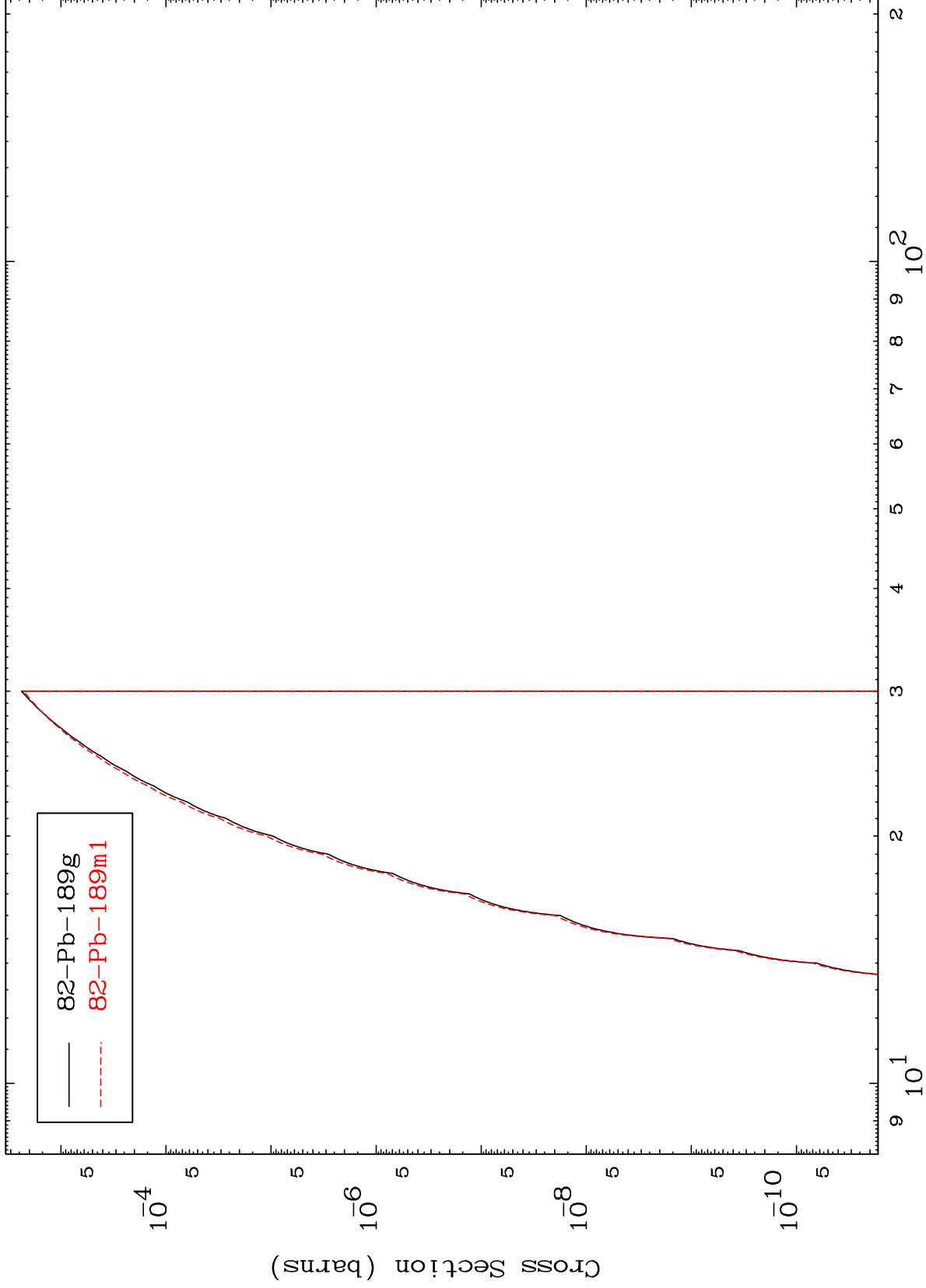
83-Bi-191

MAT 8271

(n,n') d

83-Bi-191

Radionuclide Production Cross Section



33

Incident Energy (MeV)

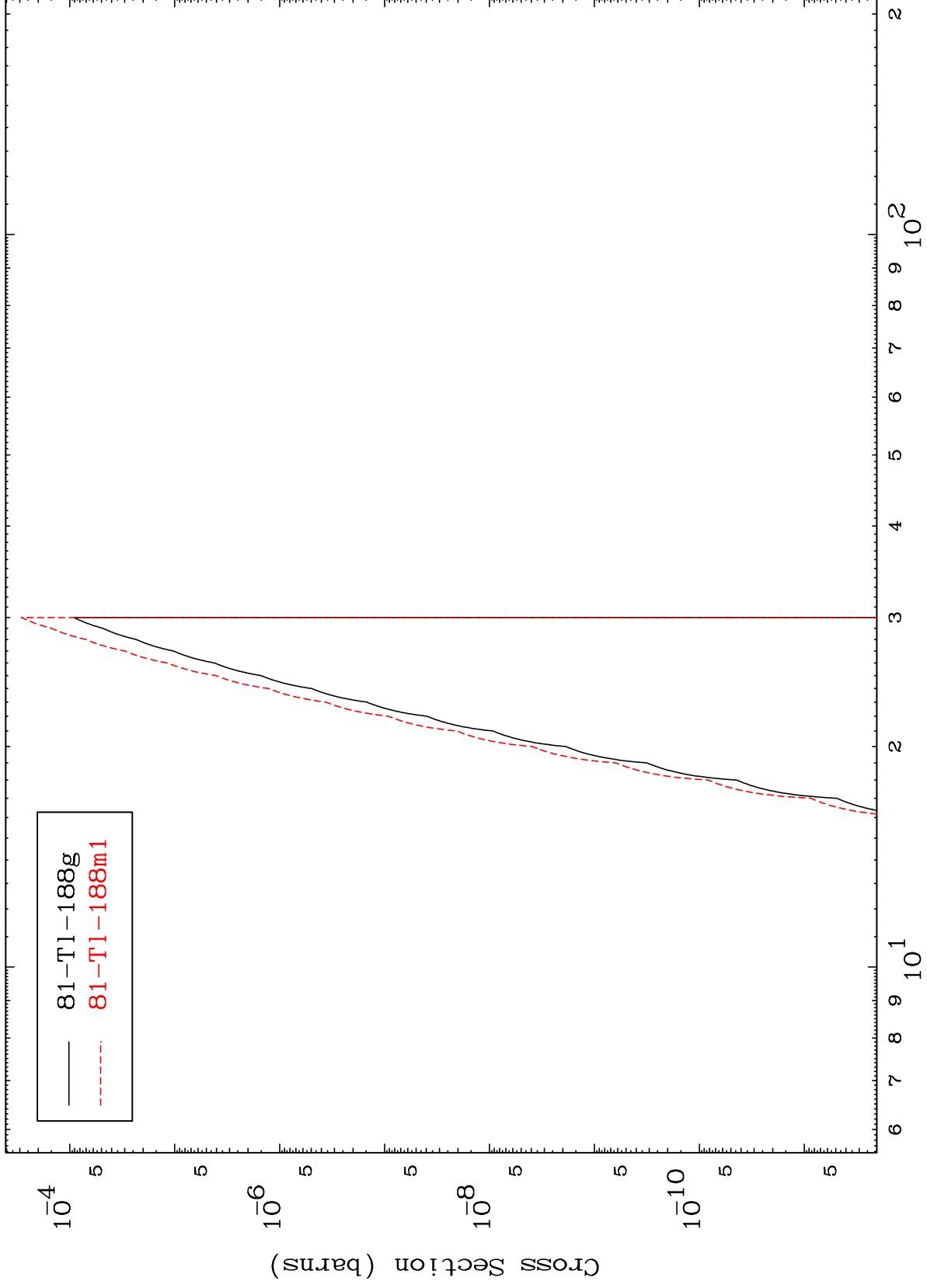
83-Bi-191

MAT 8271

(n,n') He-3

83-Bi-191

Radionuclide Production Cross Section



34

Incident Energy (MeV)

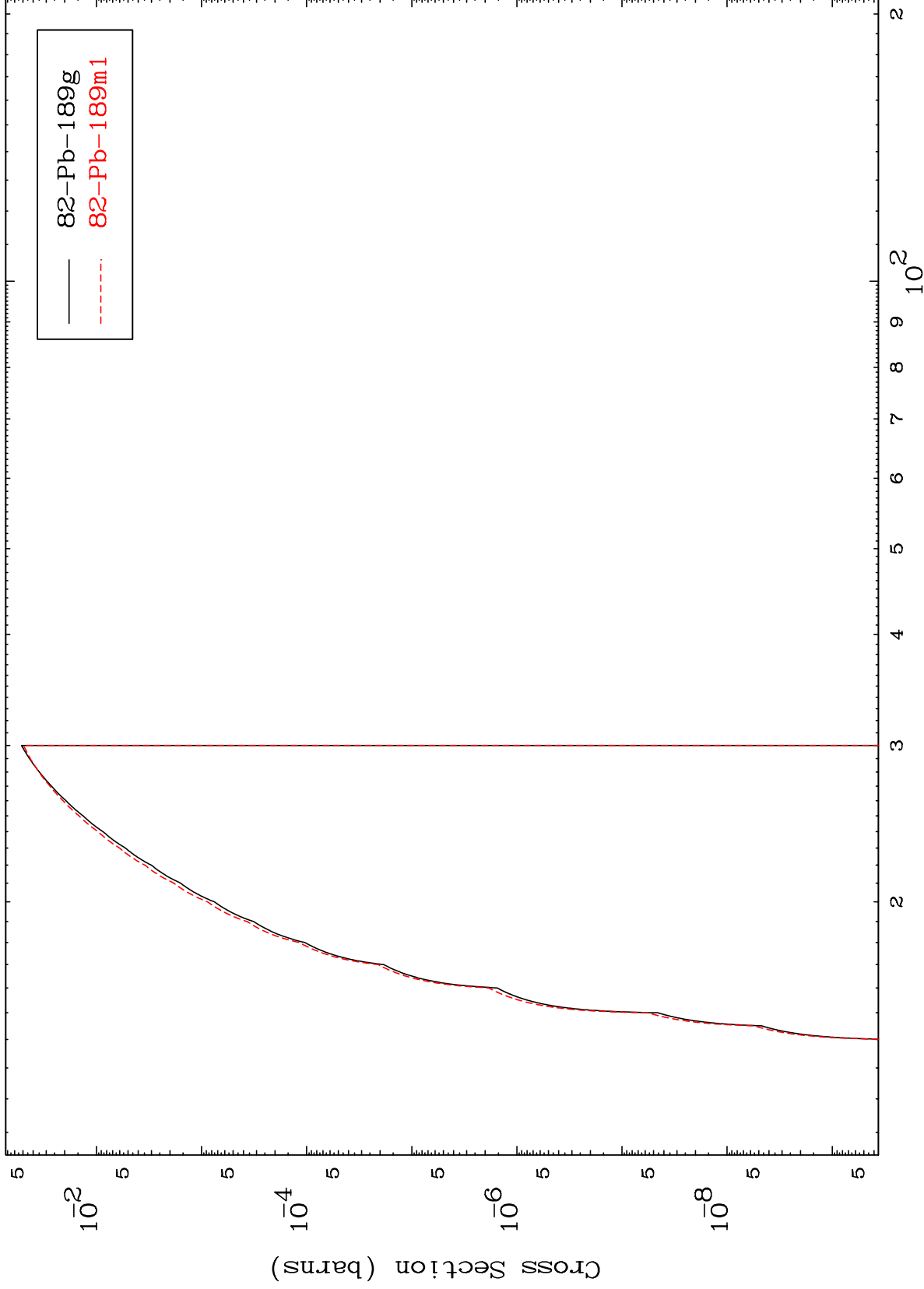
83-Bi-191

MAT 8271

$(n,2n)$  p

83-Bi-191

Radionuclide Production Cross Section



35

Incident Energy (MeV)

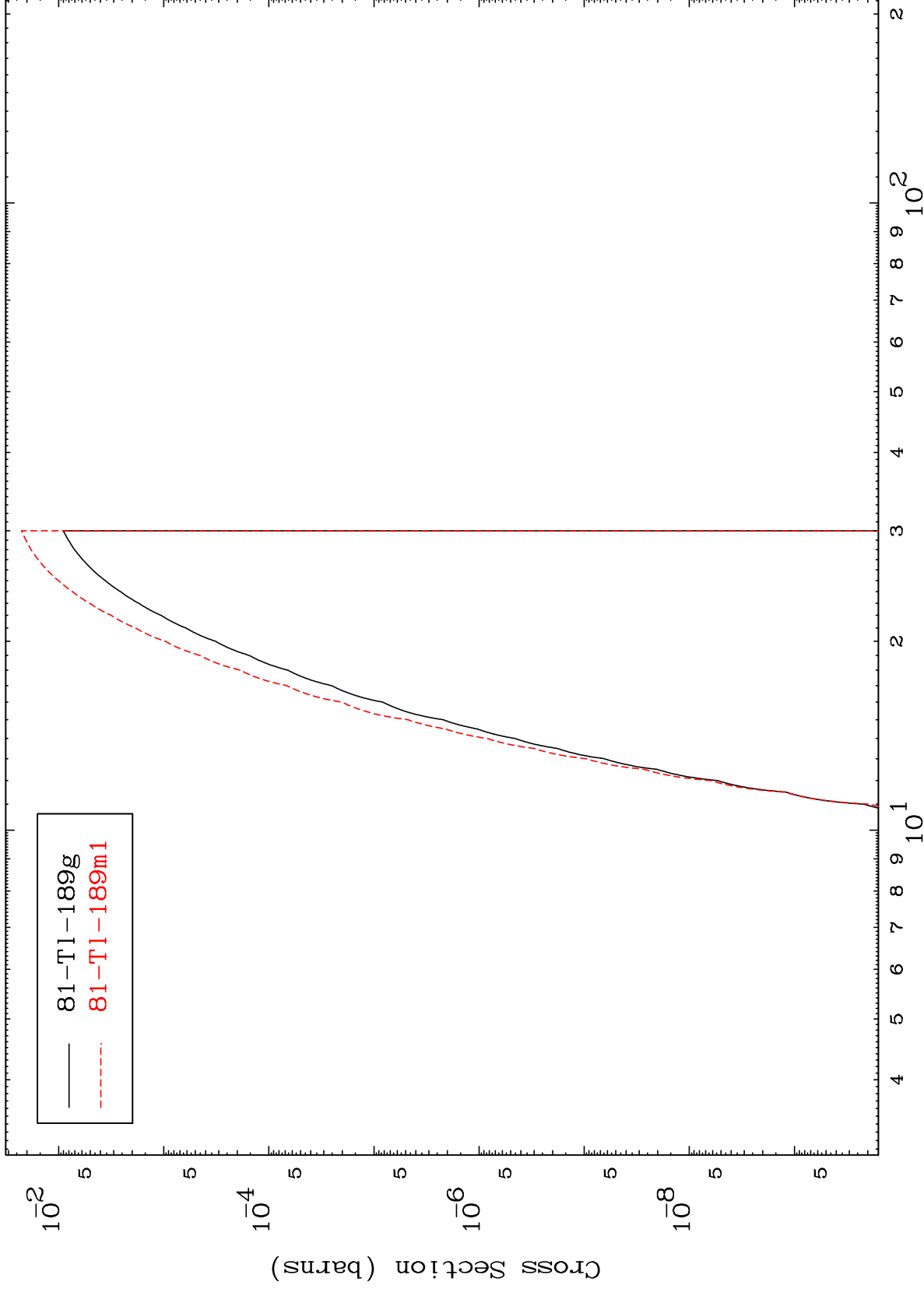
83-Bi-191

MAT 8271

(n,2n) p

83-Bi-191

Radionuclide Production Cross Section



36

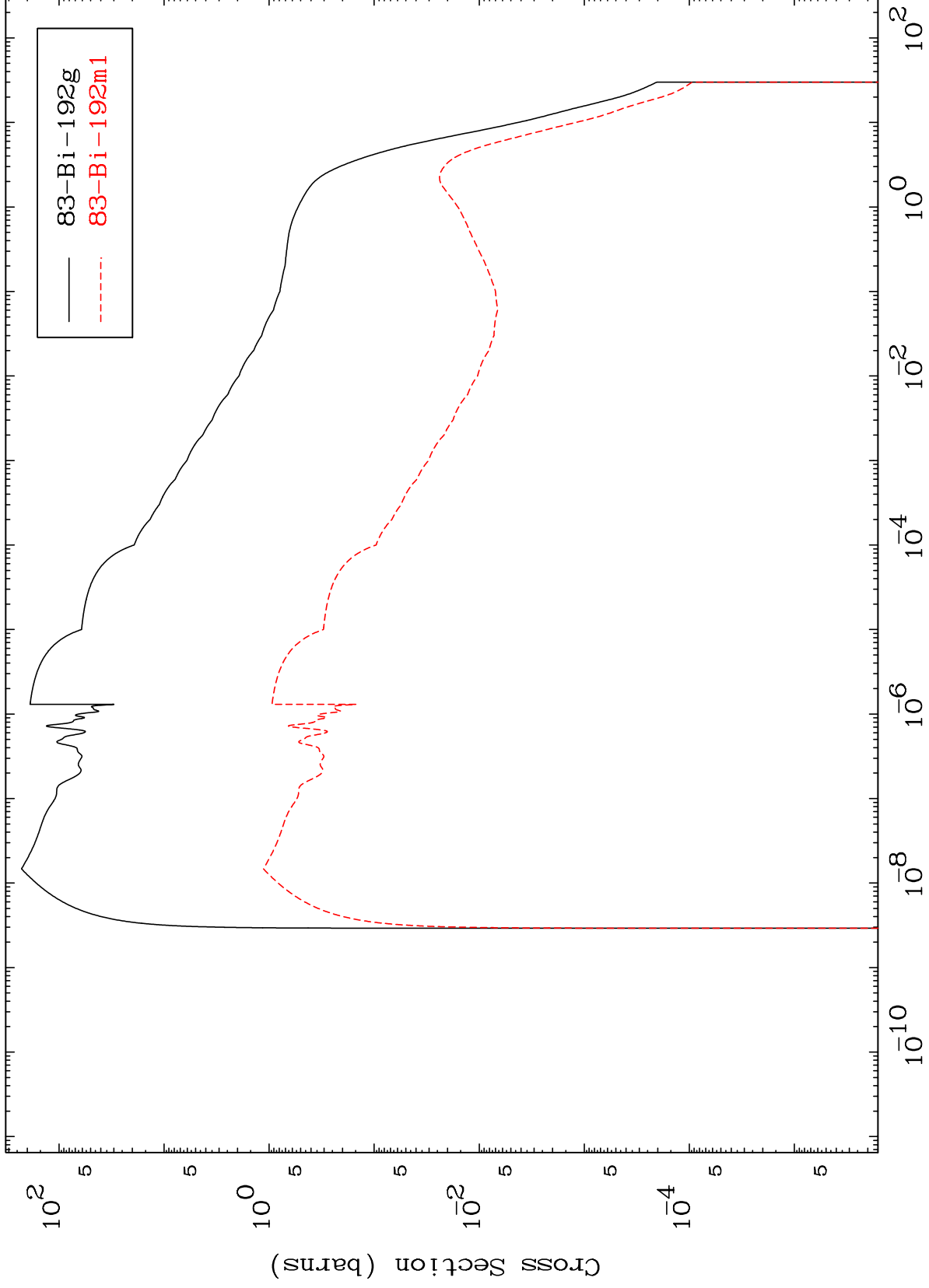
Incident Energy (MeV)

83-Bi-191

MAT 8271

83-Bi-191

$(n, \gamma)$   
Radionuclide Production Cross Section



37

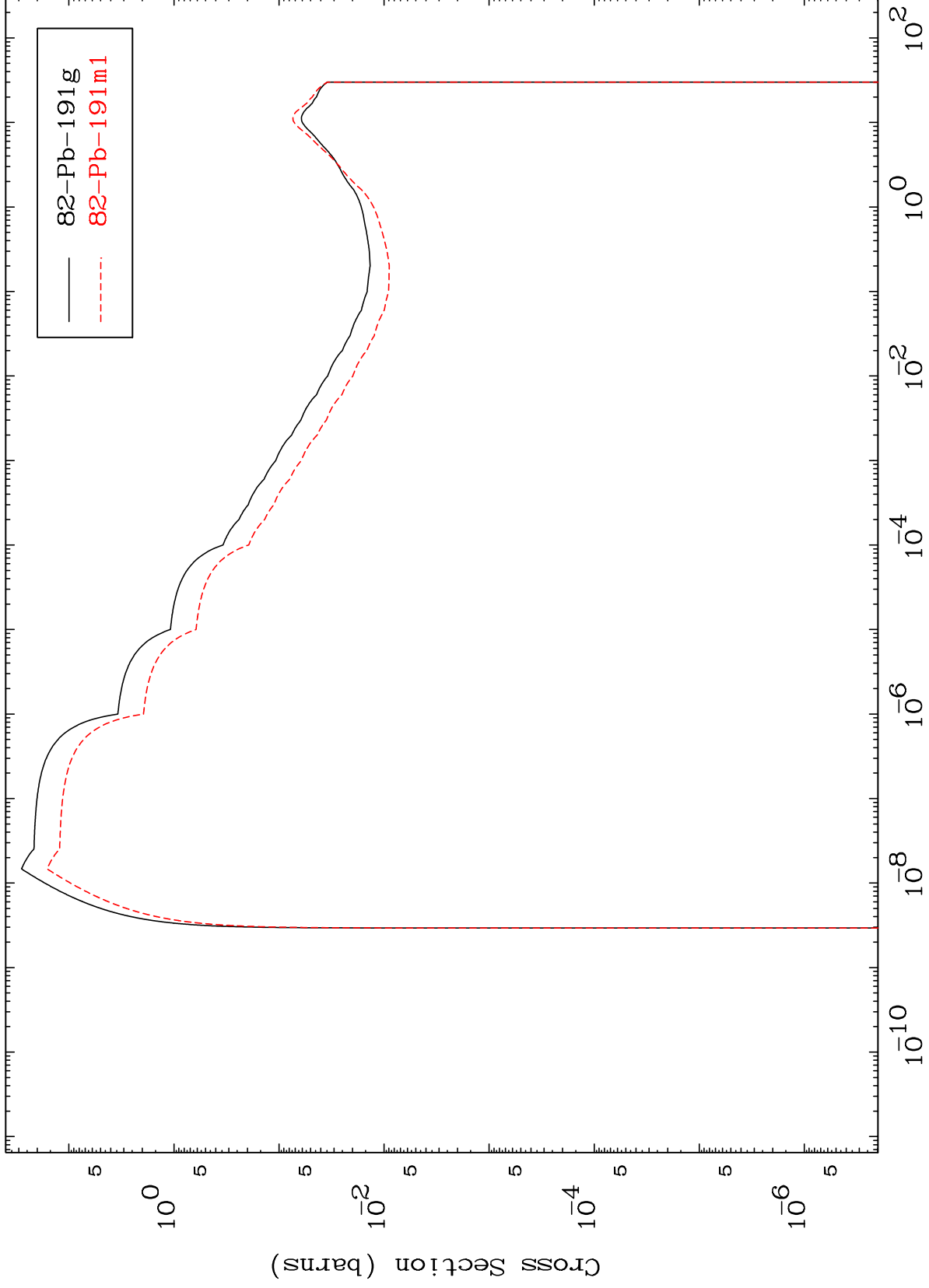
83-Bi-191

Incident Energy (MeV)

MAT 8271

83-Bi-191

(n,p)  
Radionuclide Production Cross Section



38

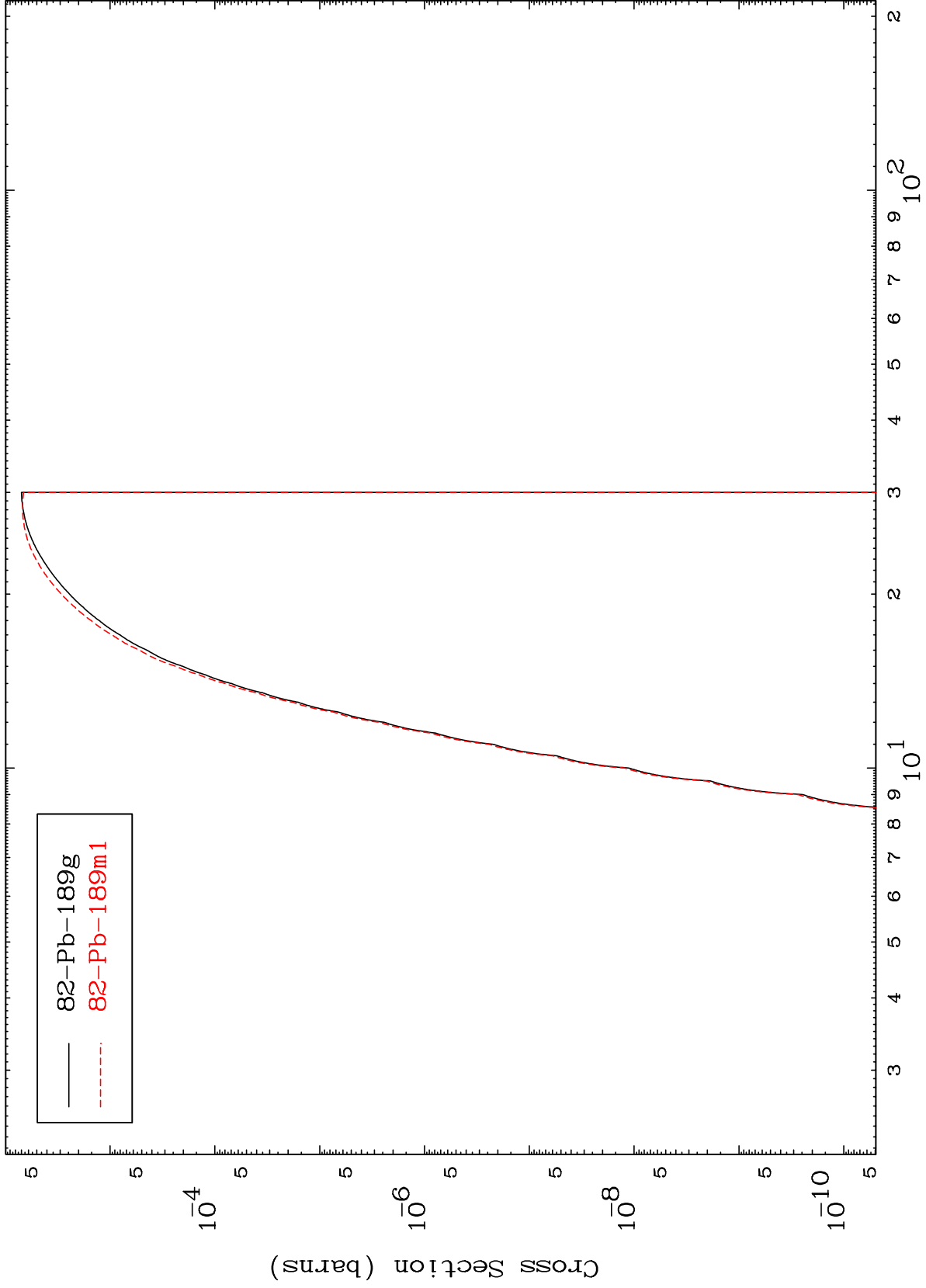
83-Bi-191

Incident Energy (MeV)

MAT 8271

83-Bi-191

(n, t)  
Radionuclide Production Cross Section



39

Incident Energy (MeV)

83-Bi-191

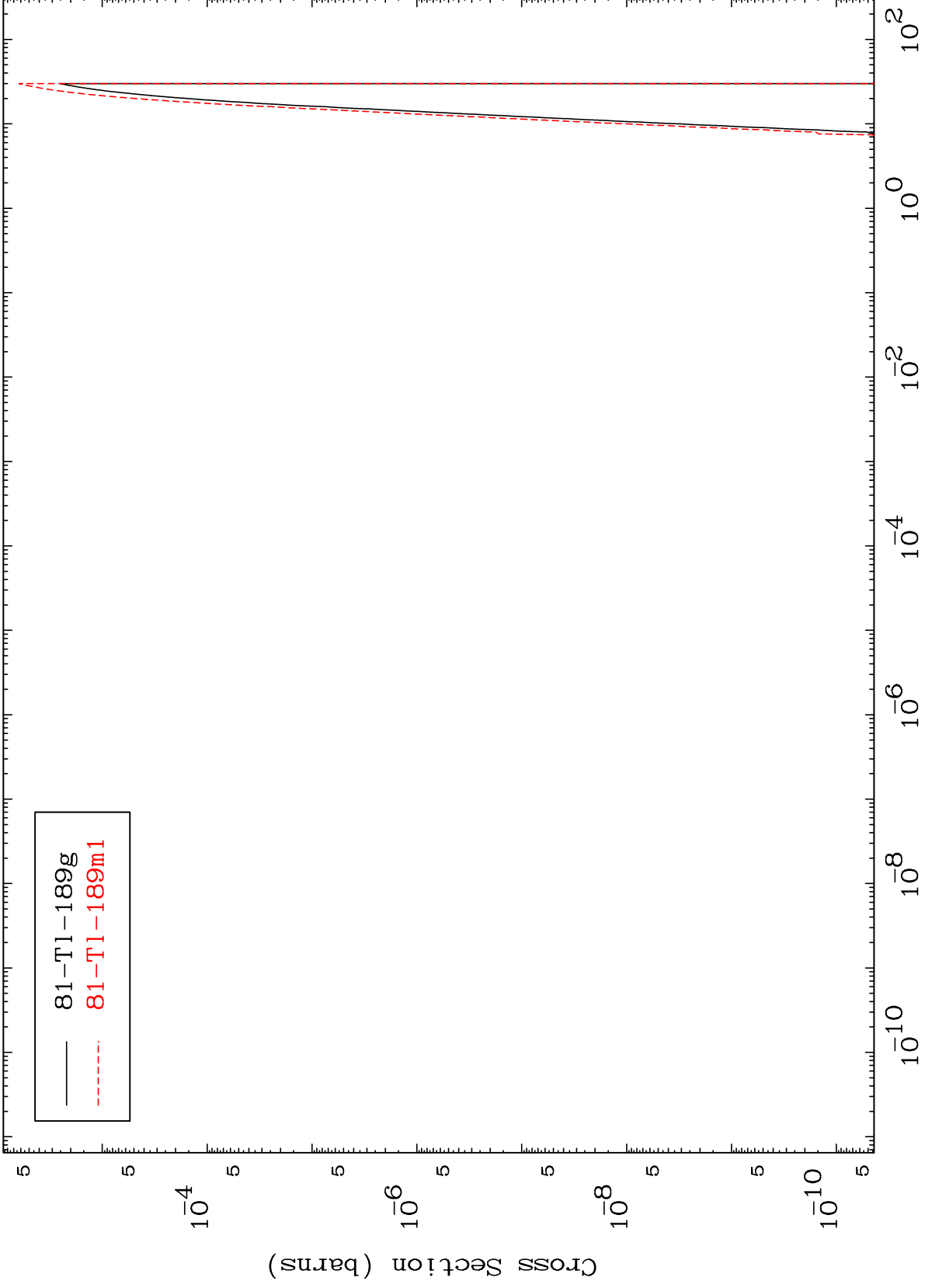


MAT 8271

(n,He-3)

83-Bi-191

Radionuclide Production Cross Section



40

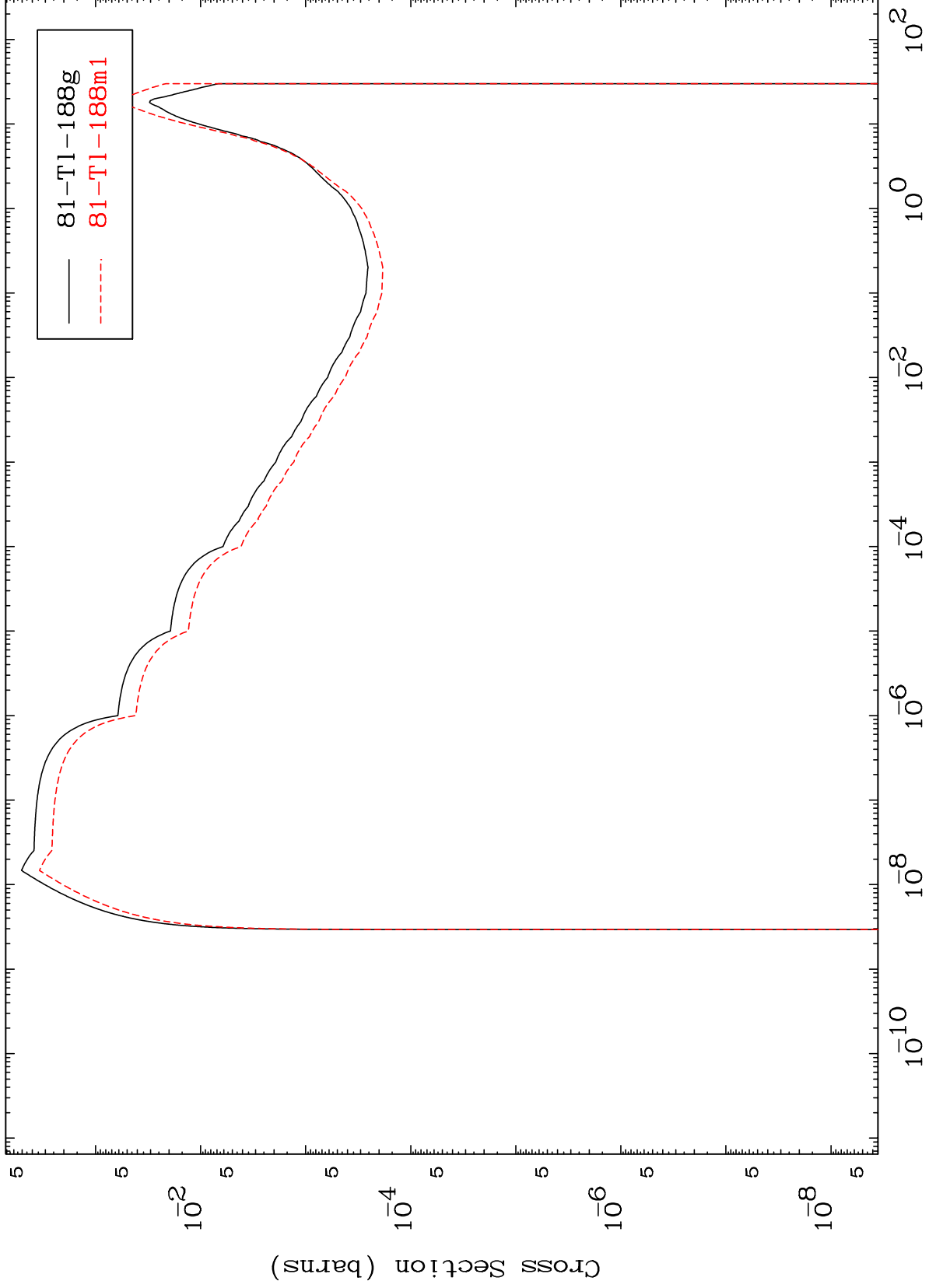
Incident Energy (MeV)

83-Bi-191

MAT 8271

83-Bi-191

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



41

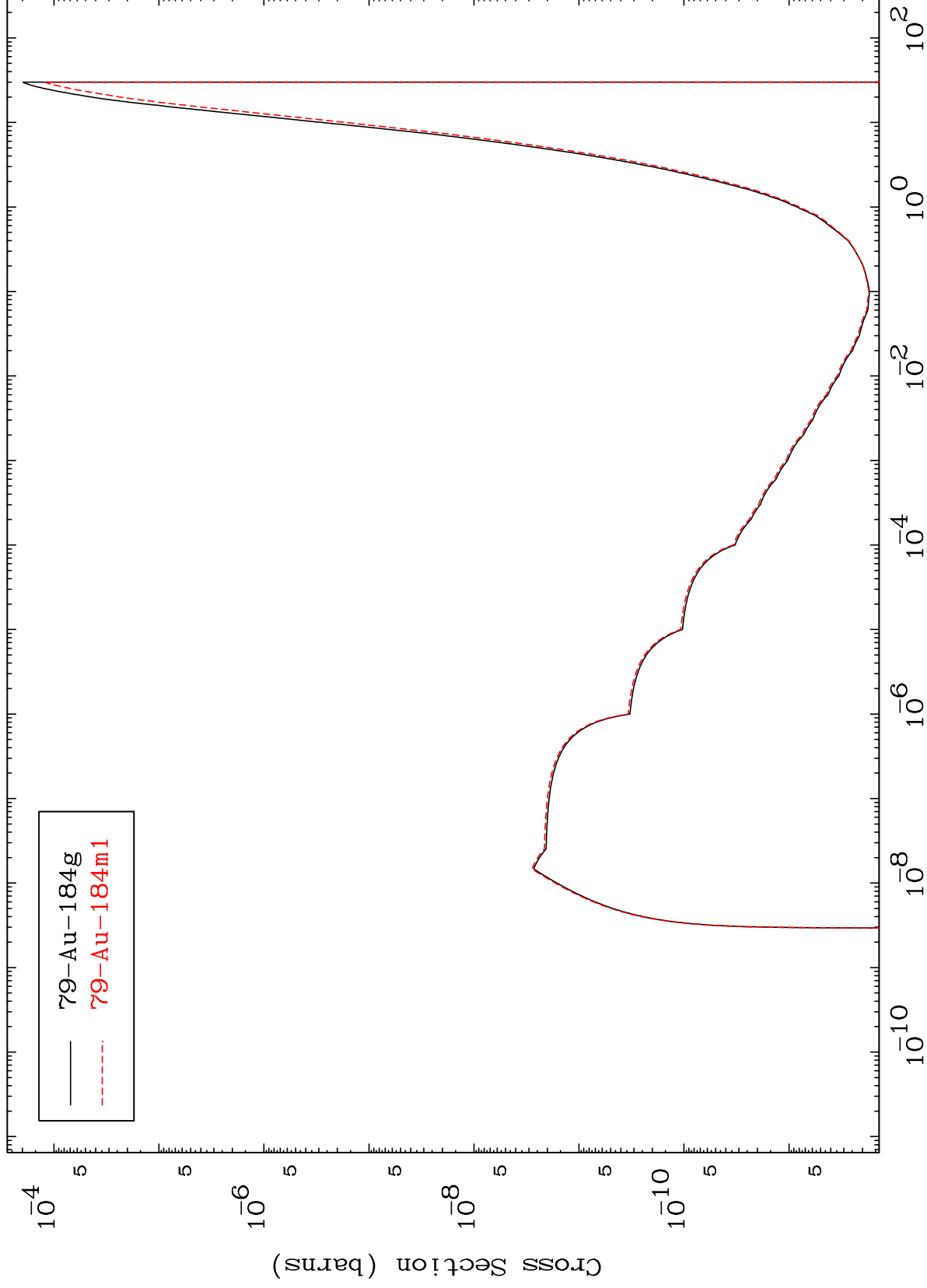
83-Bi-191

Incident Energy (MeV)

MAT 8271

83-Bi-191

(n,2α)  
Radionuclide Production Cross Section



83-Bi-191

Incident Energy (MeV)

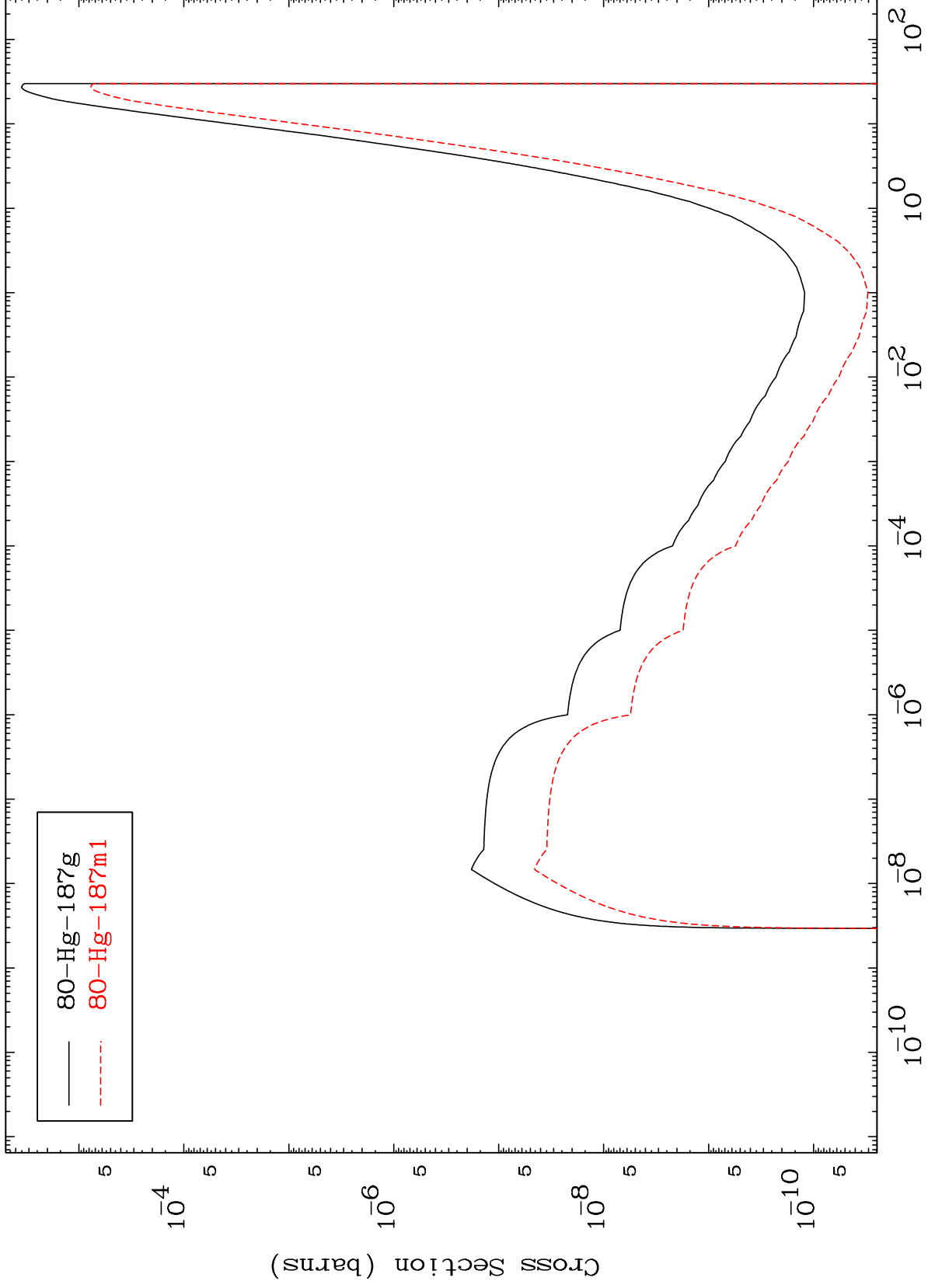
42

MAT 8271

(n,p)  $\alpha$

83-Bi-191

Radionuclide Production Cross Section



43

Incident Energy (MeV)

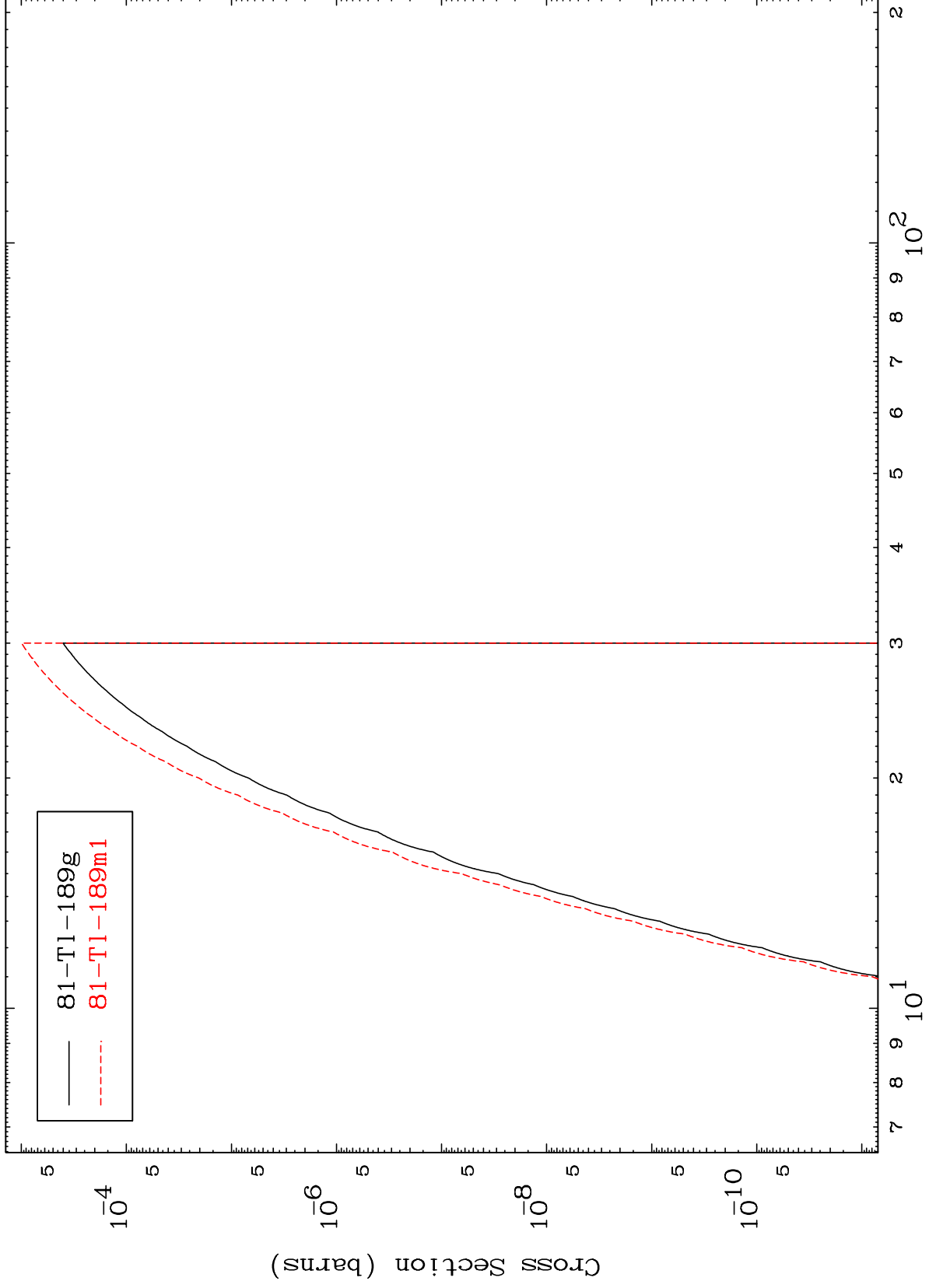
83-Bi-191

MAT 8271

(n,p) d

83-Bi-191

Radionuclide Production Cross Section



44

Incident Energy (MeV)

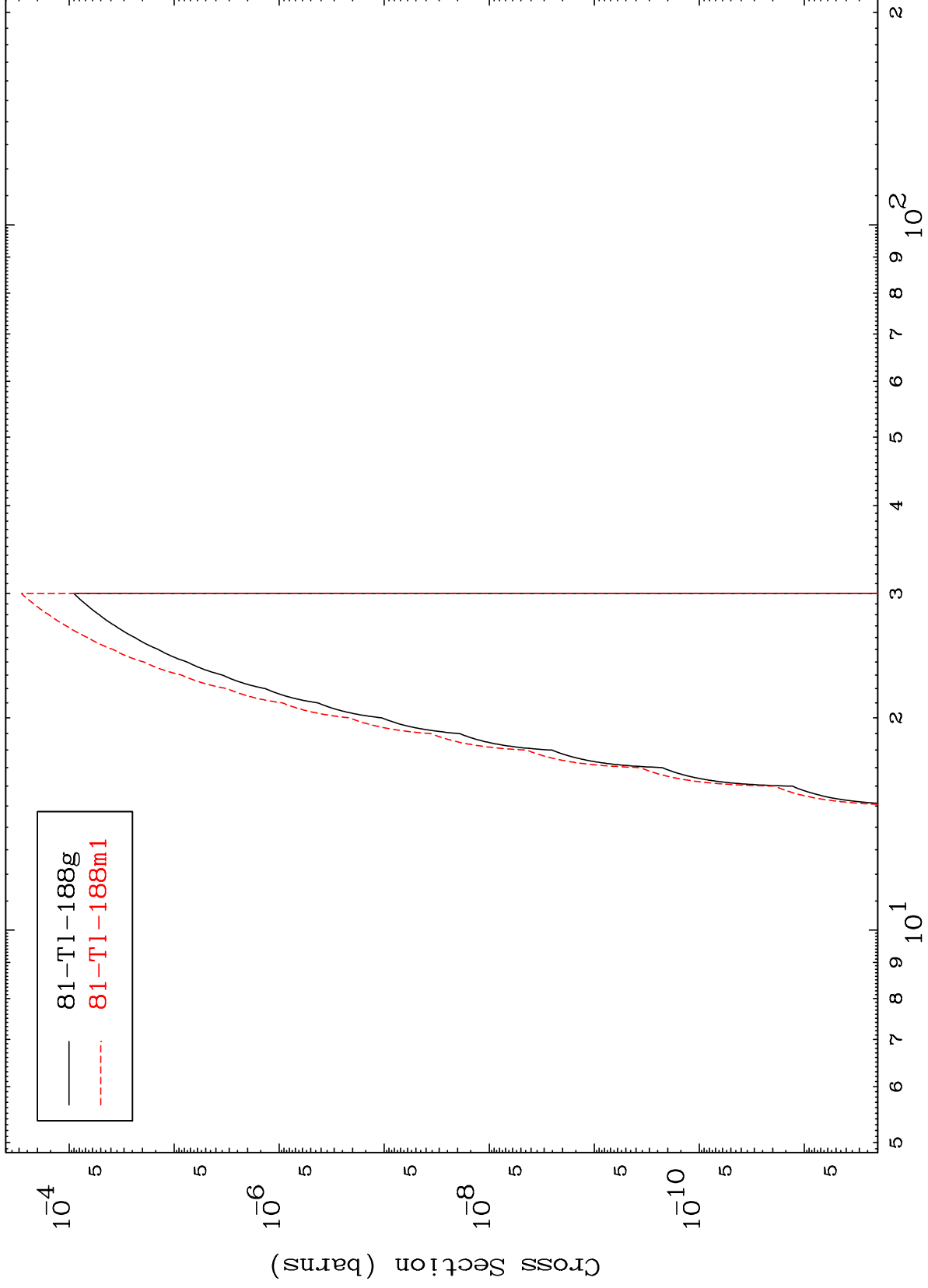
83-Bi-191

MAT 8271

(n,p) t

83-Bi-191

Radionuclide Production Cross Section



45

Incident Energy (MeV)

83-Bi-191