

Program EVALPLOT  
(Version 2017-1)

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

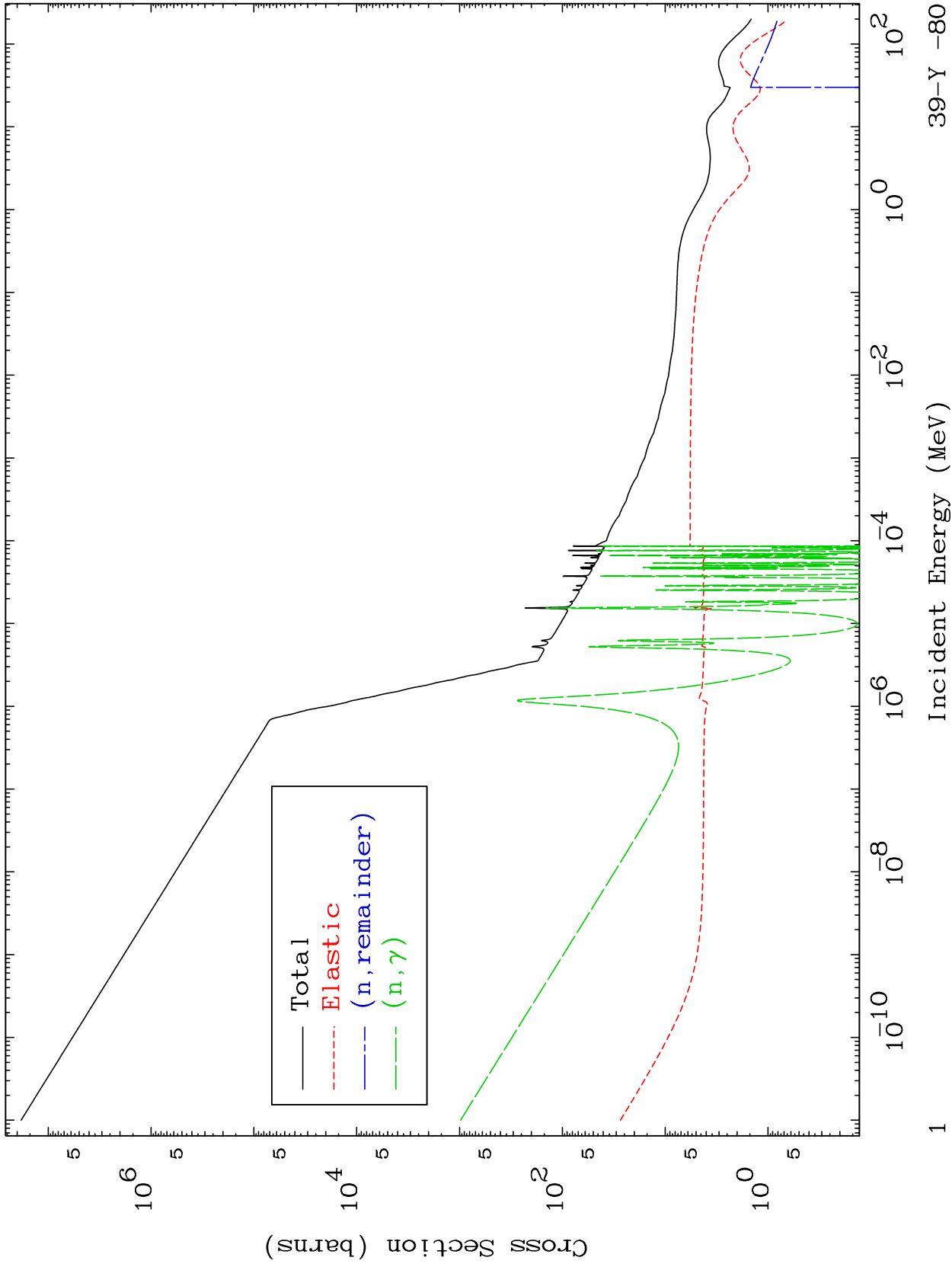
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3899

Major  
293 Kelvin Cross Sections

39-Y -80



1

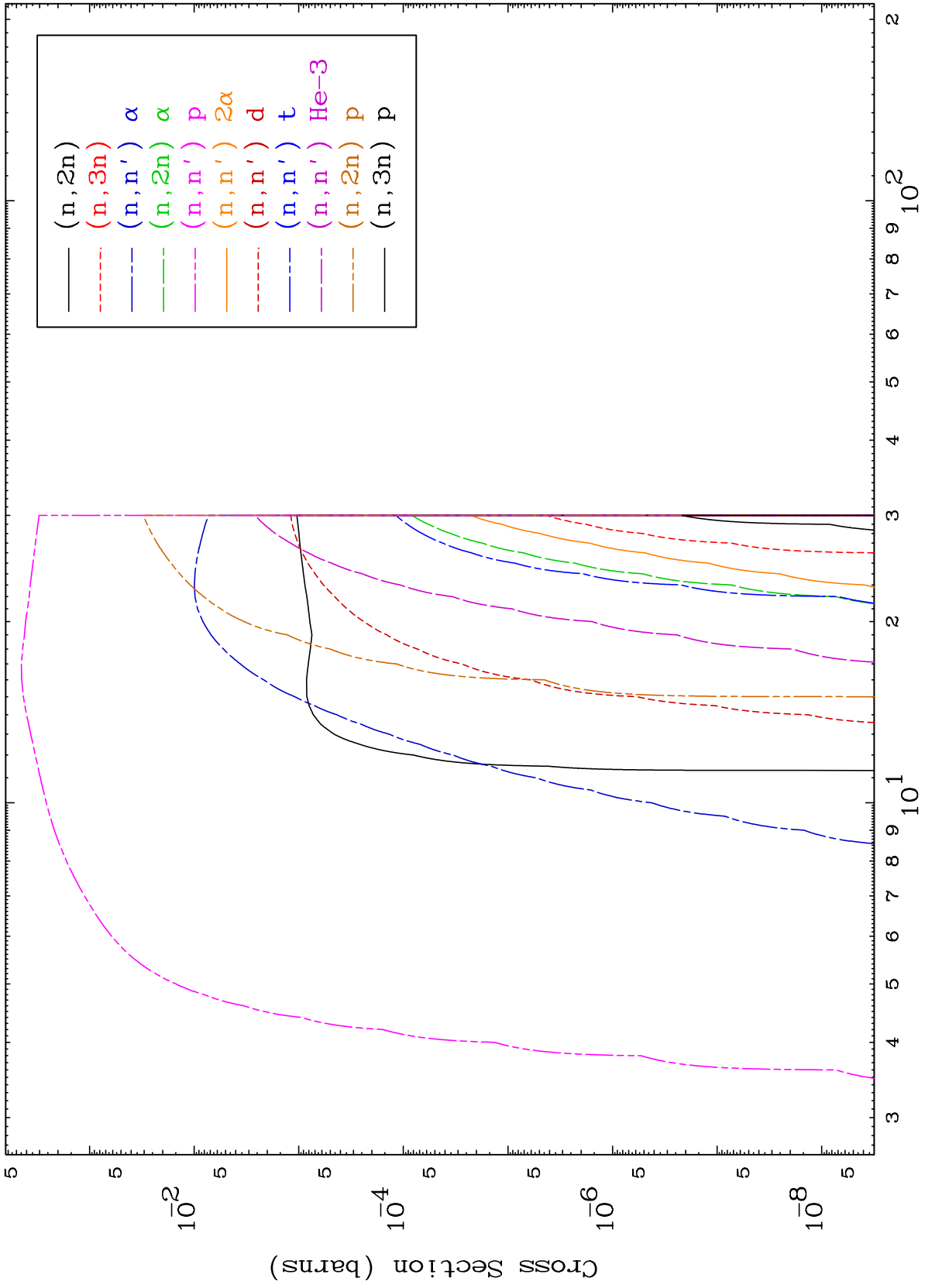
Incident Energy (MeV)

39-Y -80

MAT 3899

Neutron Production  
293 Kelvin Cross Sections

39-Y -80



2

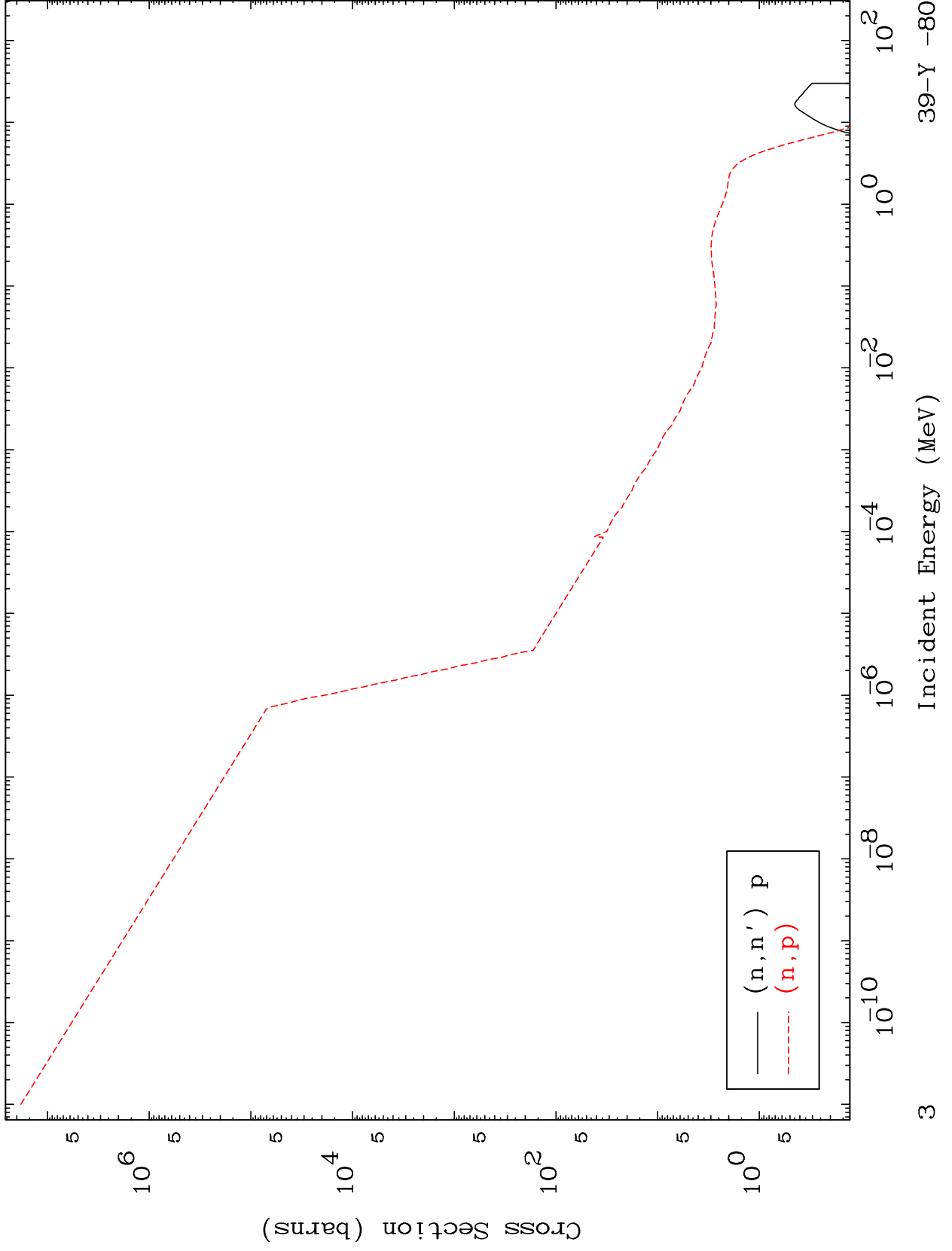
Incident Energy (MeV)

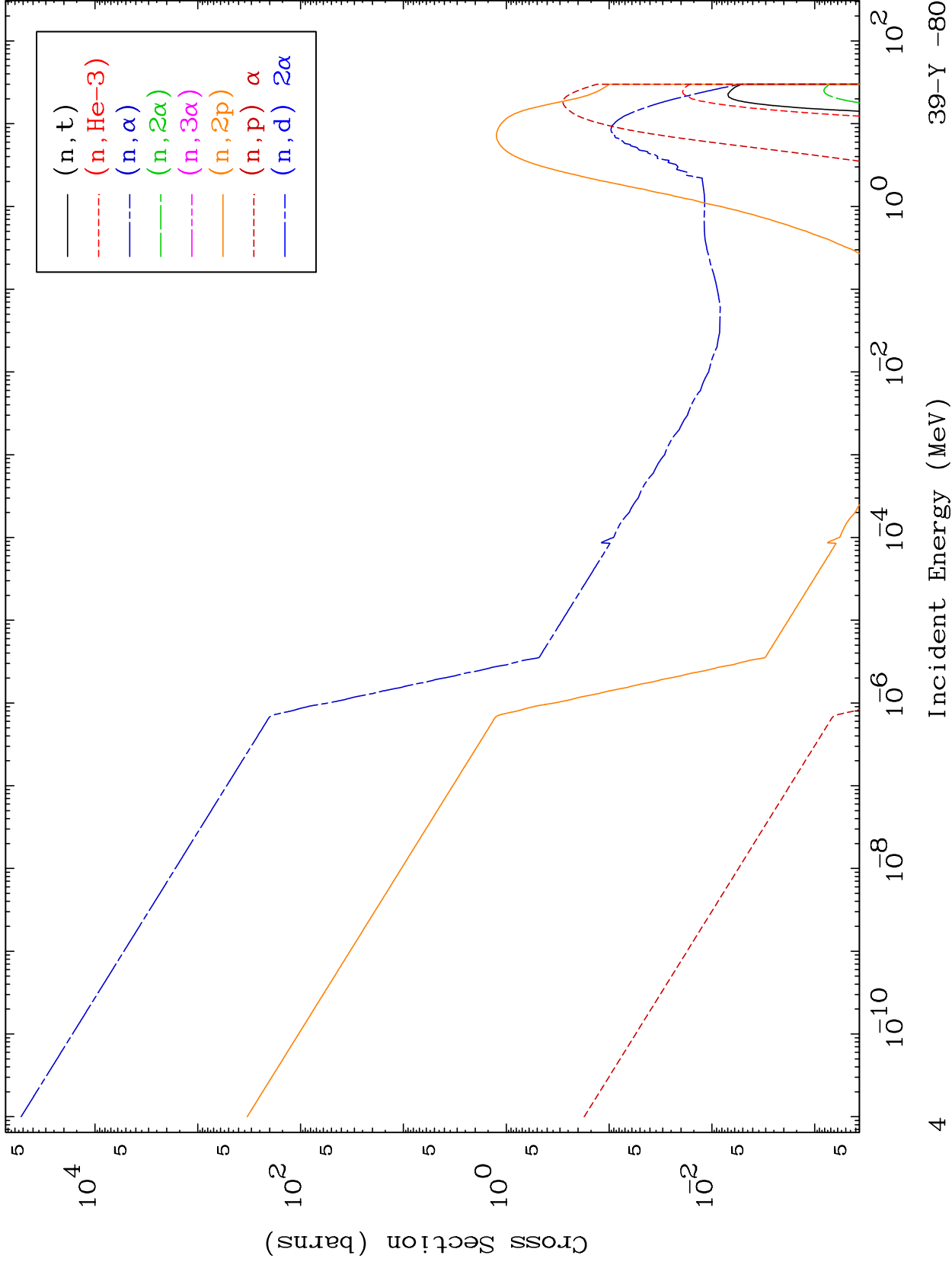
39-Y -80

MAT 3899

Charged Particle  
293 Kelvin Cross Sections

39-Y -80

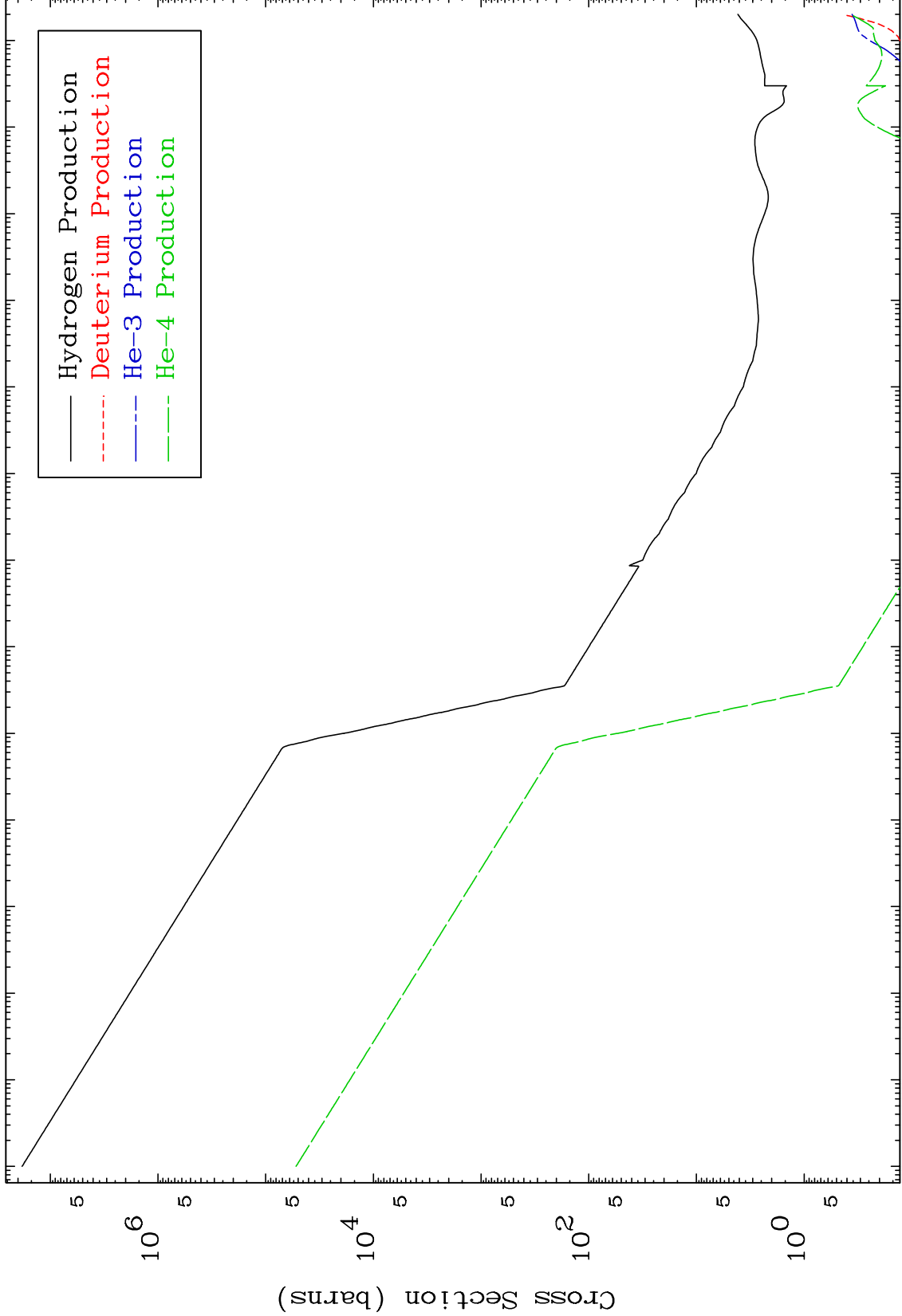




MAT 3899

Particle Production  
293 Kelvin Cross Sections

39-Y -80



5

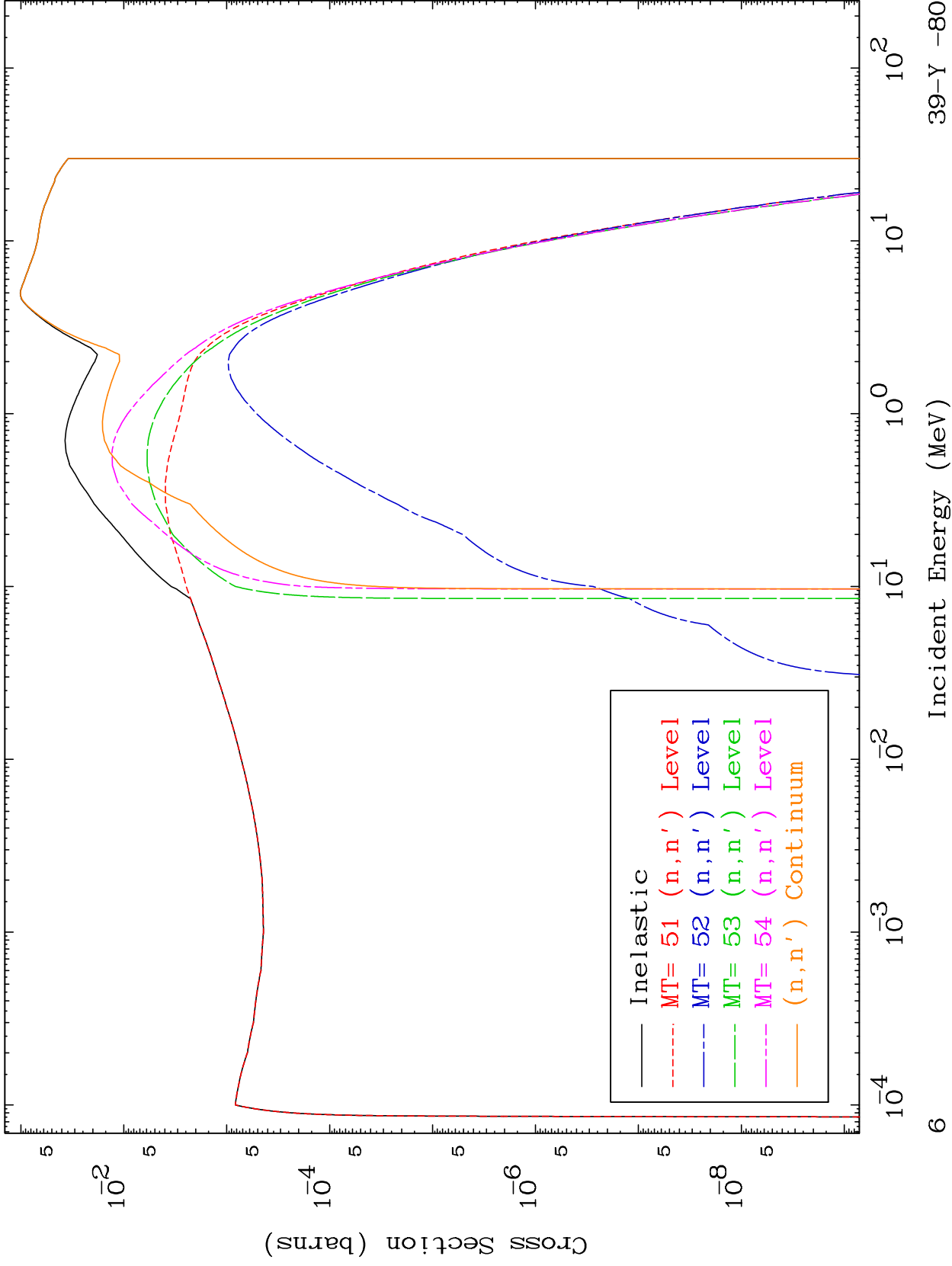
Incident Energy (MeV)

39-Y -80

MAT 3899

(n,n') Level  
293 Kelvin Cross Sections

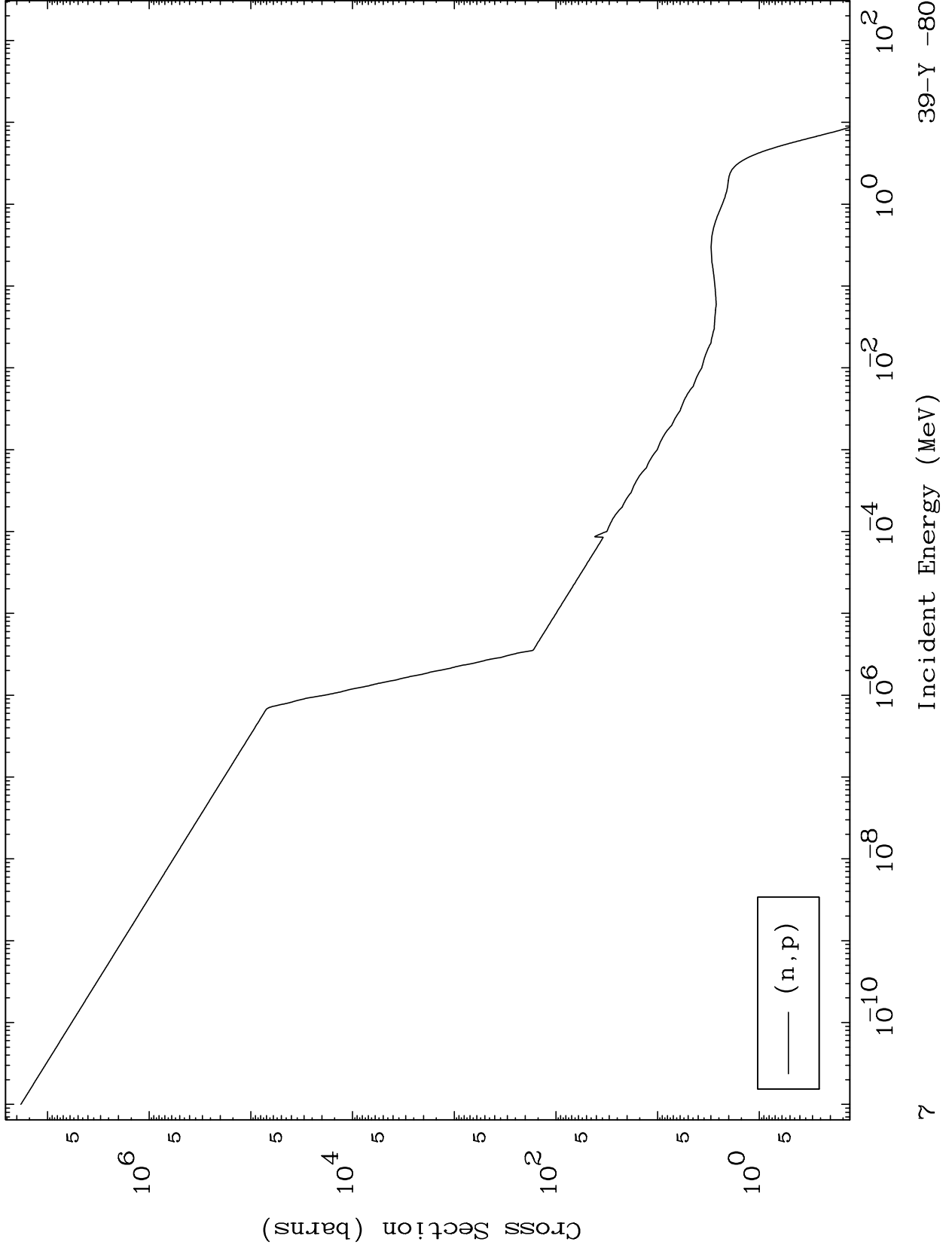
39-Y -80



MAT 3899

(n,p) Levels  
293 Kelvin Cross Sections

39-Y -80

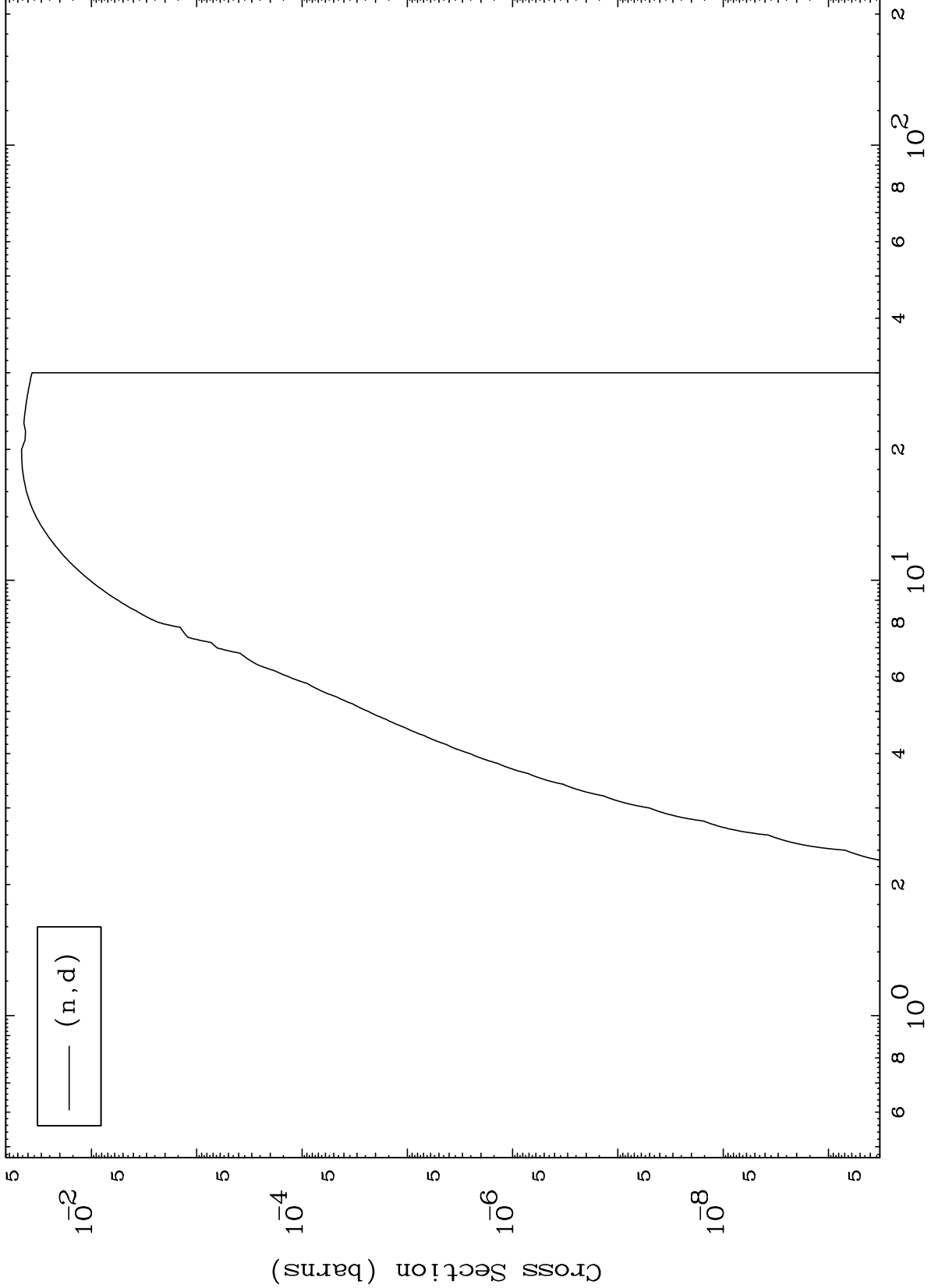




MAT 3899

(n,d) Levels  
293 Kelvin Cross Sections

39-Y -80



8

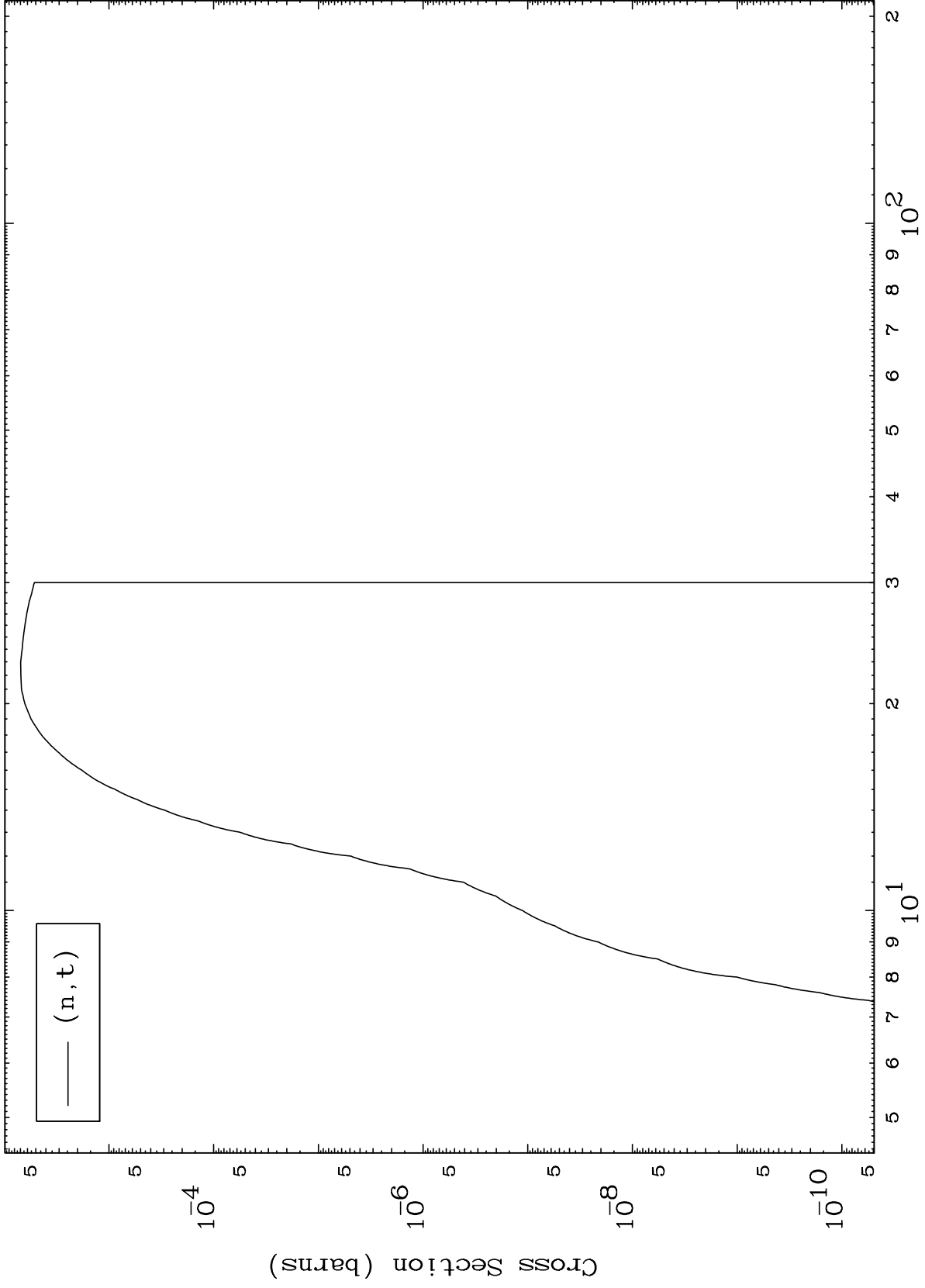
Incident Energy (MeV)

39-Y -80

MAT 3899

(n,t) Levels  
293 Kelvin Cross Sections

39-Y -80



9

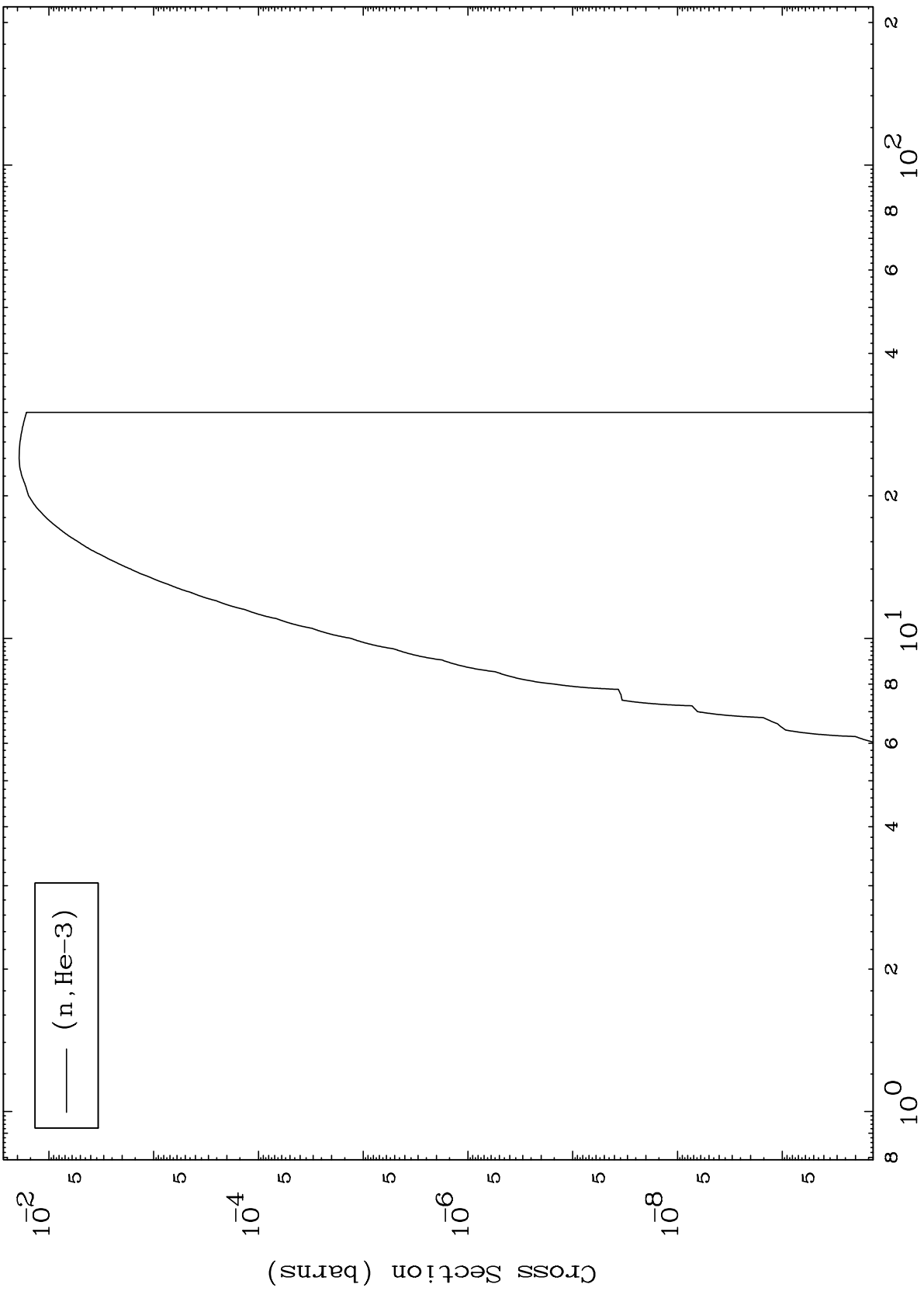
Incident Energy (MeV)

39-Y -80

MAT 3899

(n,He3) Levels  
293 Kelvin Cross Sections

39-Y -80



8

10<sup>0</sup>

2

4

6

8

10<sup>1</sup>

2

4

6

8

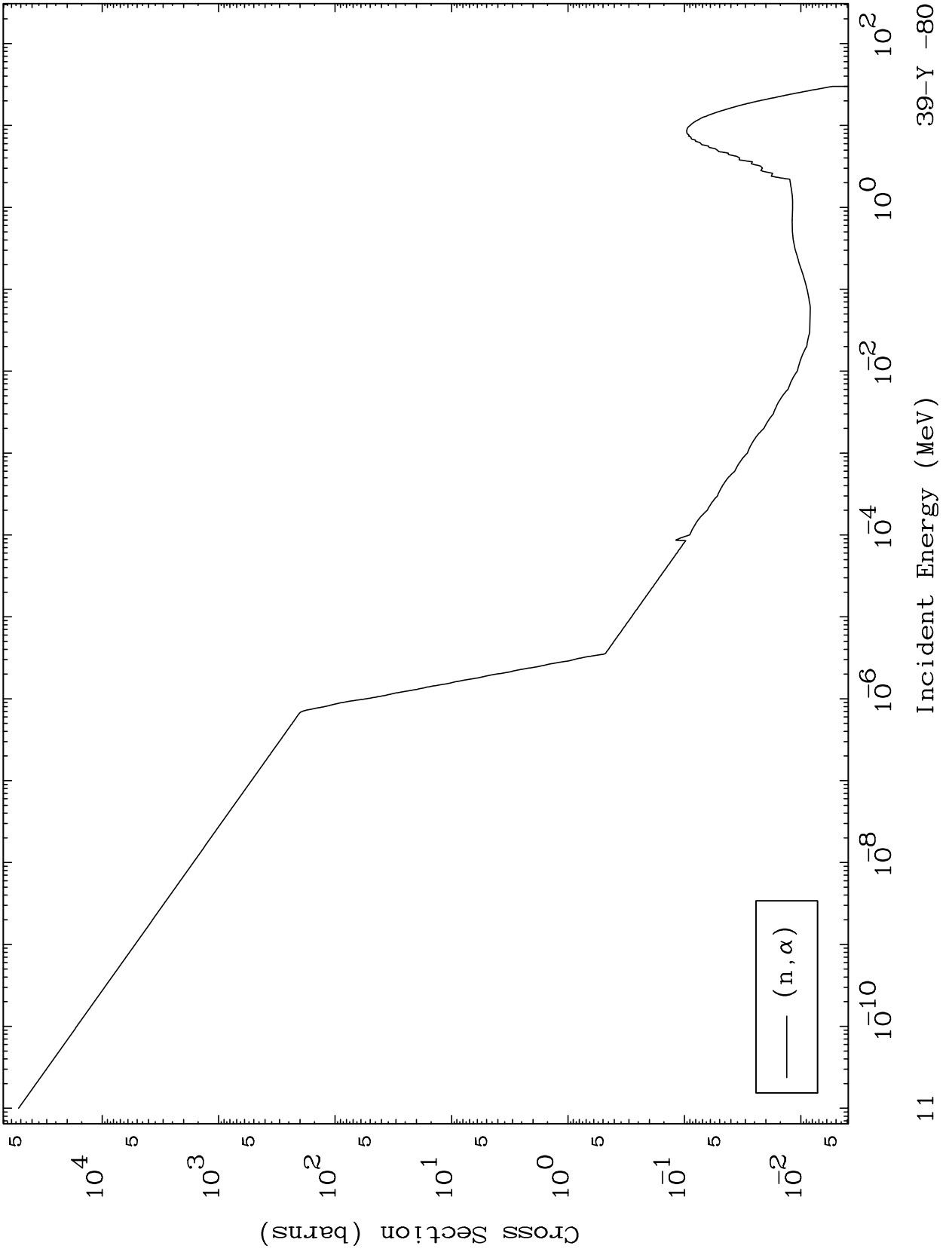
10<sup>2</sup>

39-Y -80

MAT 3899

(n,α) Levels  
293 Kelvin Cross Sections

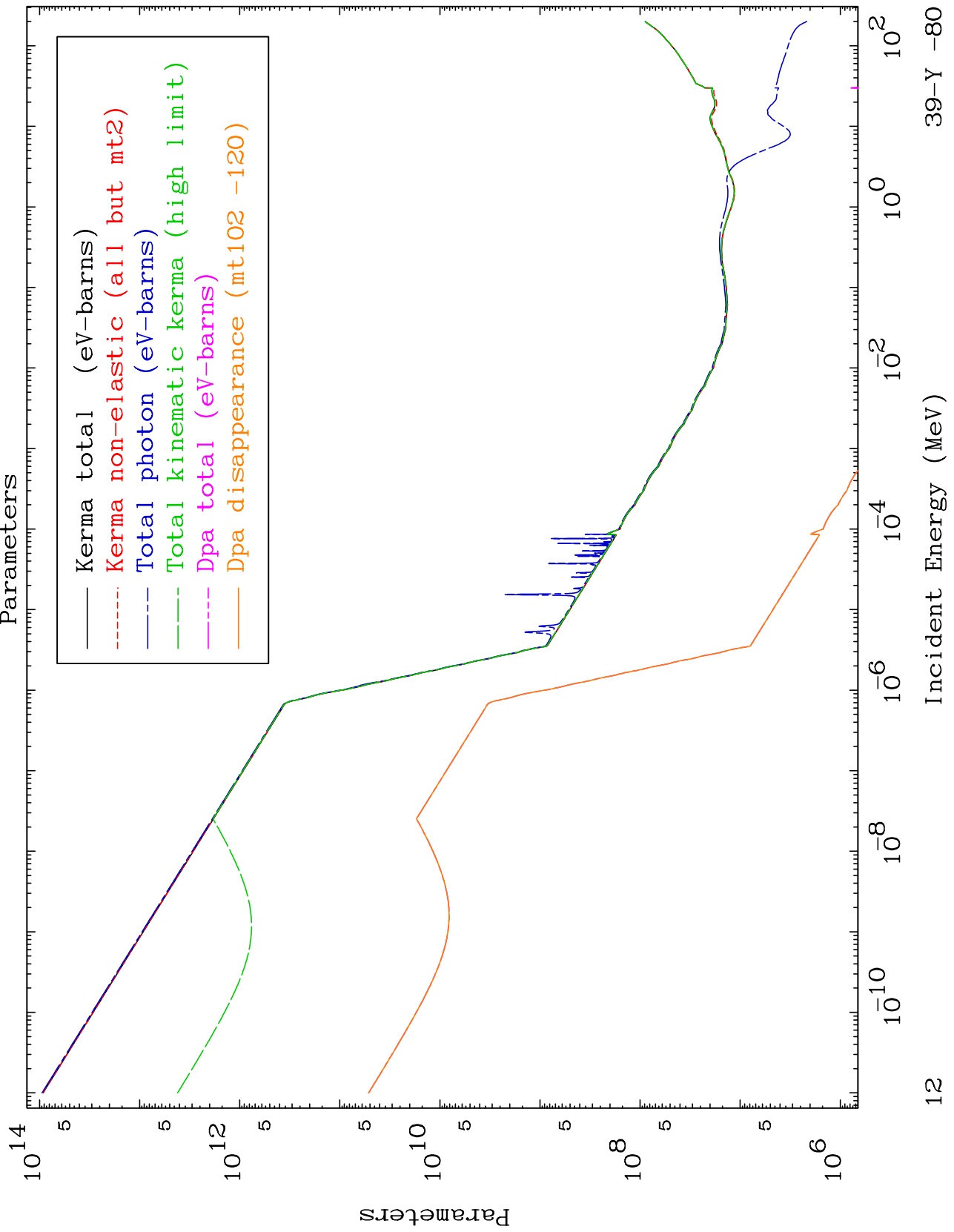
39-Y -80



MAT 3899

Energy Release  
Parameters

39-Y -80



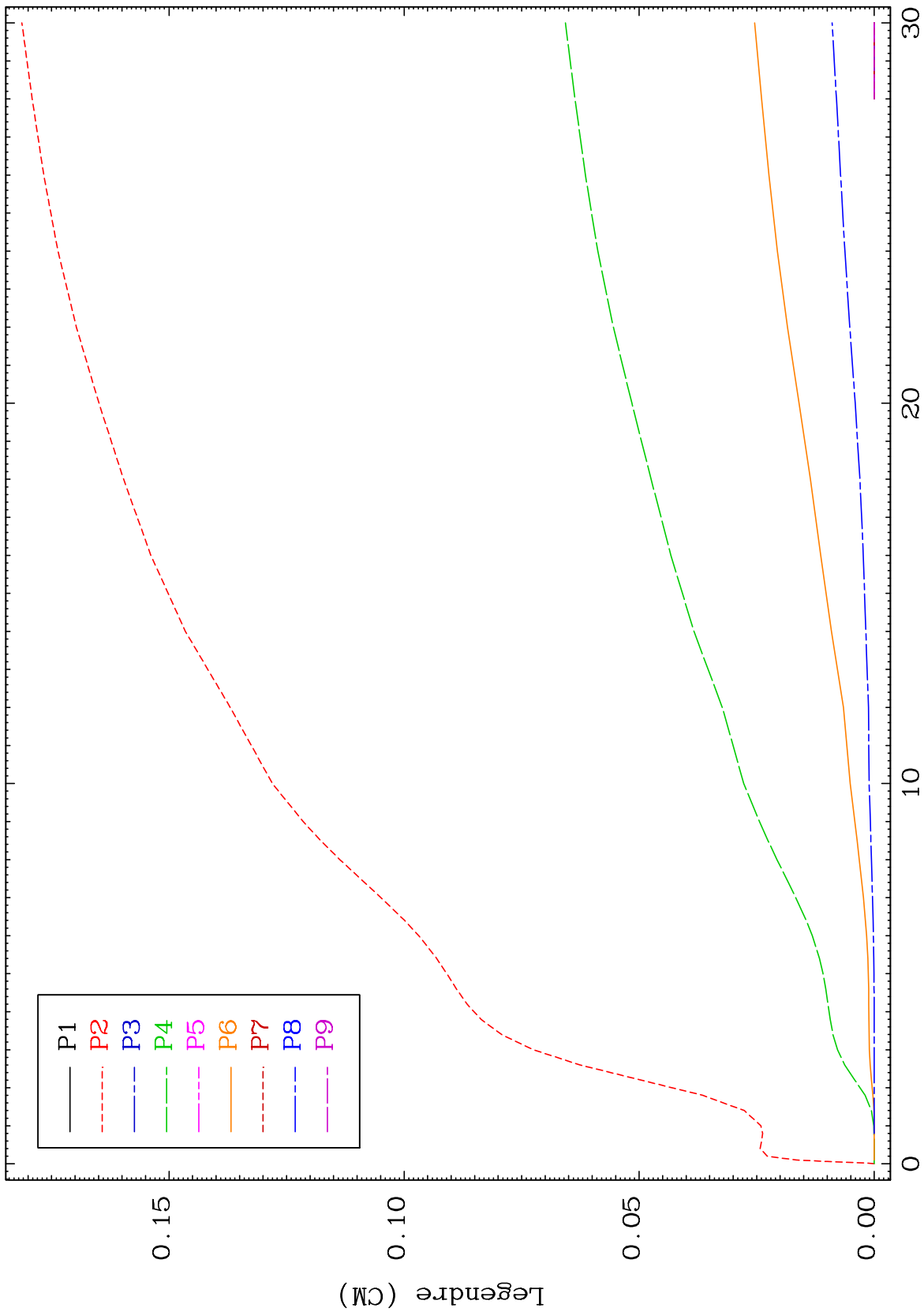
12

39-Y -80

MAT 3899

Elastic  
Legendre Coefficients

39-Y -80



13

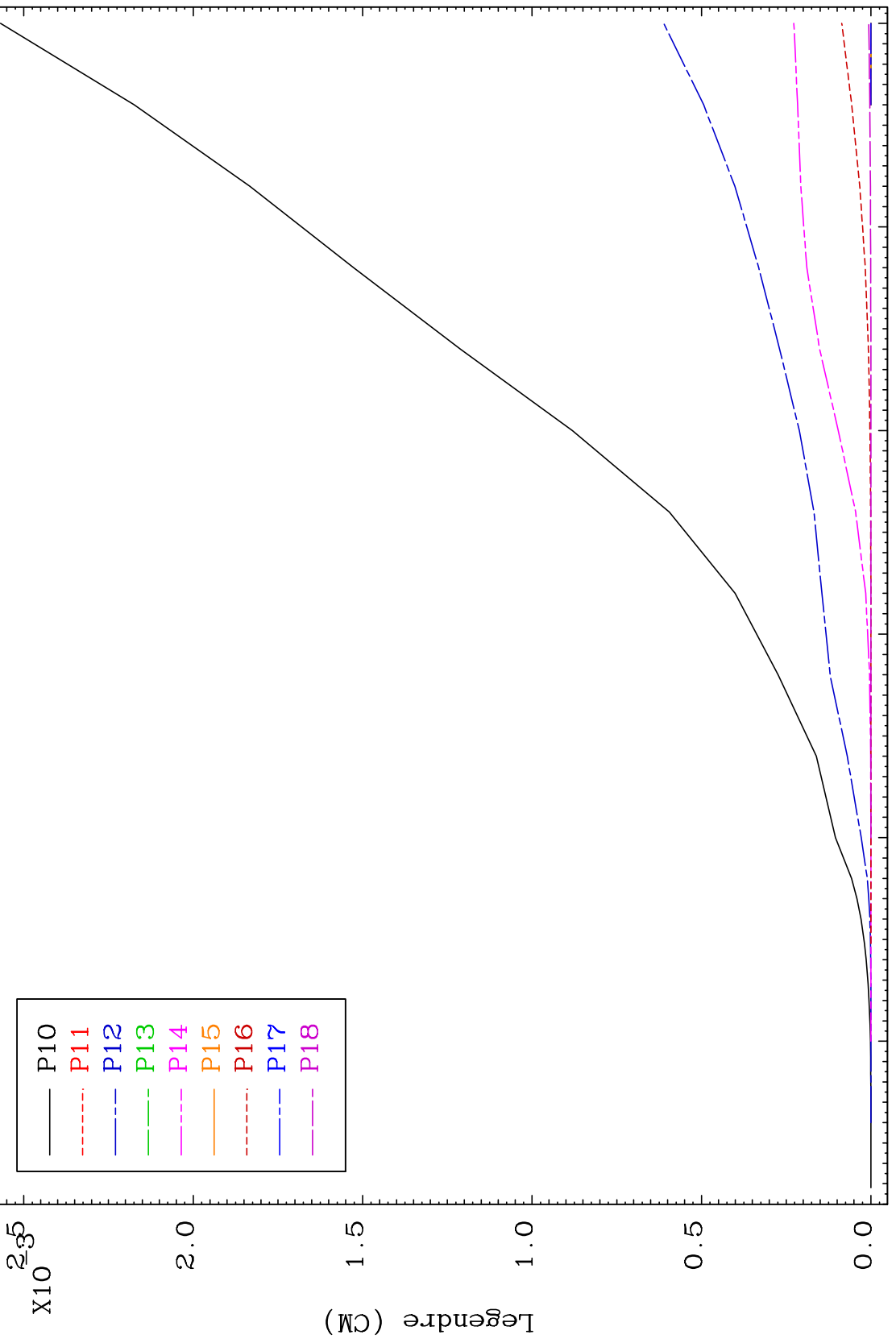
Incident Energy (MeV)

39-Y -80

MAT 3899

Elastic Legendre Coefficients

39-Y -80



14

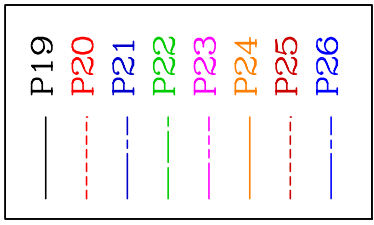
Incident Energy (MeV)

39-Y -80

MAT 3899

Elastic Legendre Coefficients

39-Y -80



$\times 10^{-4}$

Legendre (CM)



30

20

15

Incident Energy (MeV)

39-Y -80

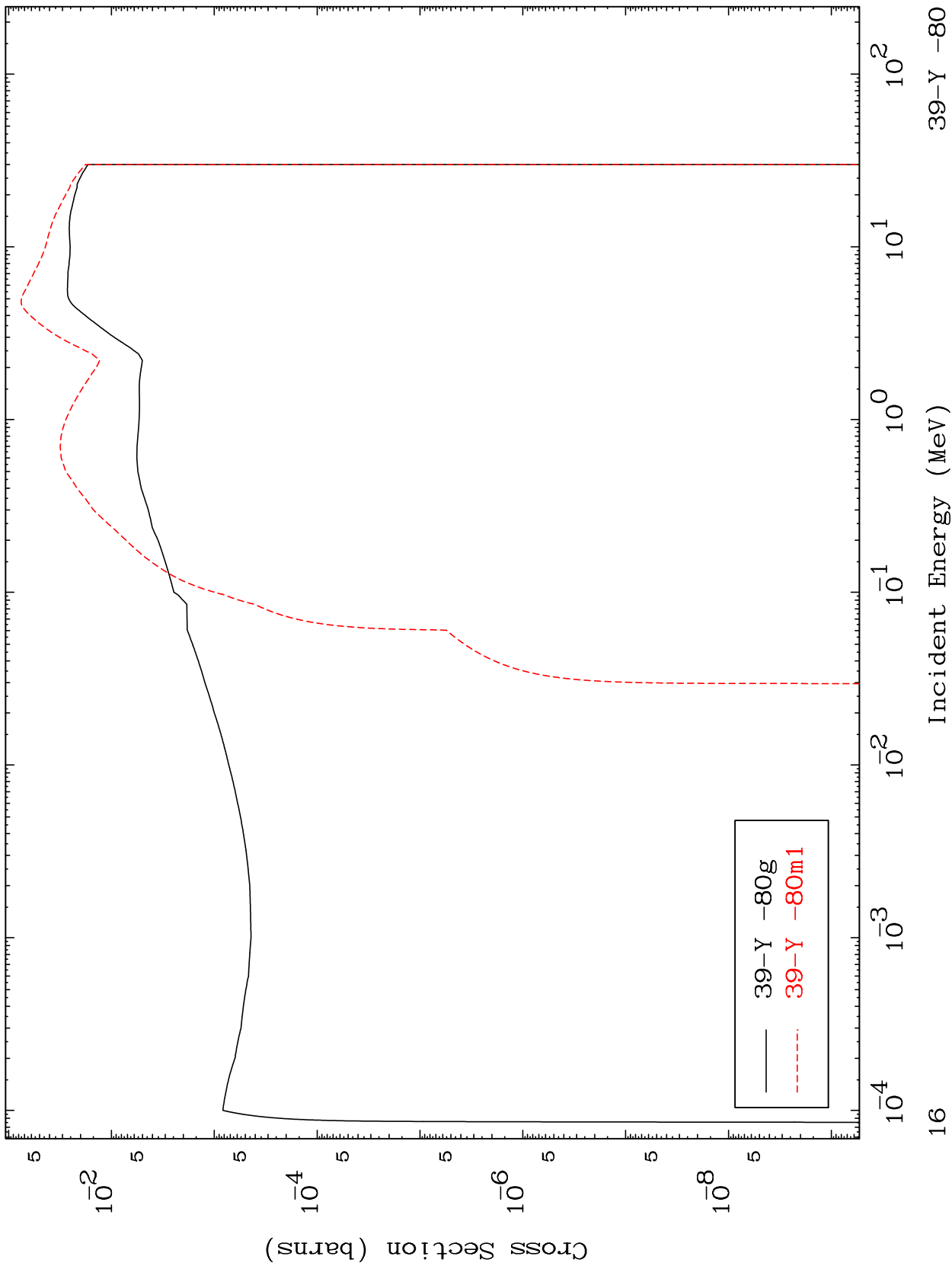
15



MAT 3899

39-Y -80

Inelastic  
Radionuclide Production Cross Section



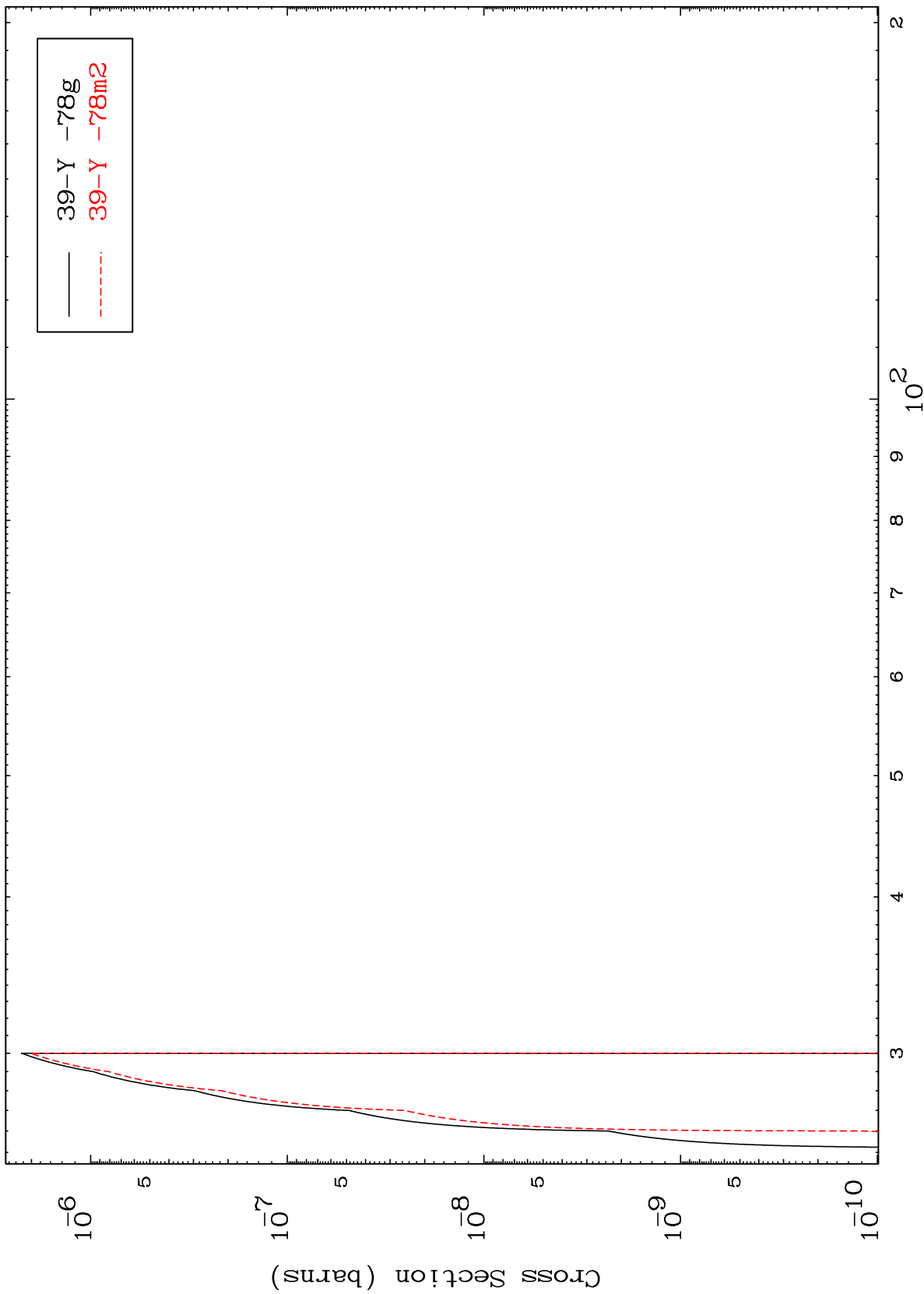
39-Y -80

16

MAT 3899

39-Y -80

(n,3n)  
Radionuclide Production Cross Section



39-Y -78g  
39-Y -78m2

17

39-Y -80

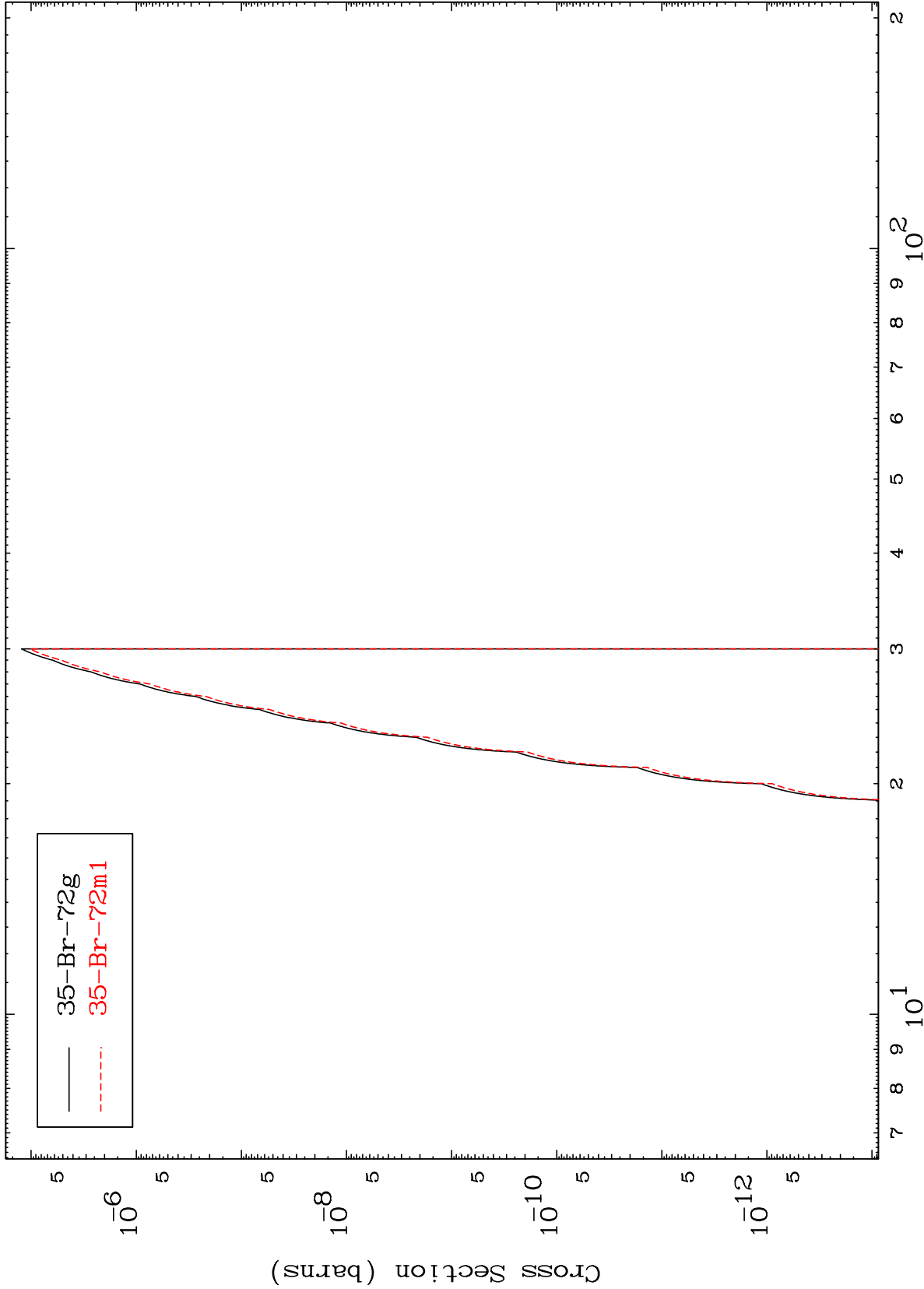
Incident Energy (MeV)

MAT 3899

(n,n') 2α

39-Y -80

Radionuclide Production Cross Section



18

Incident Energy (MeV)

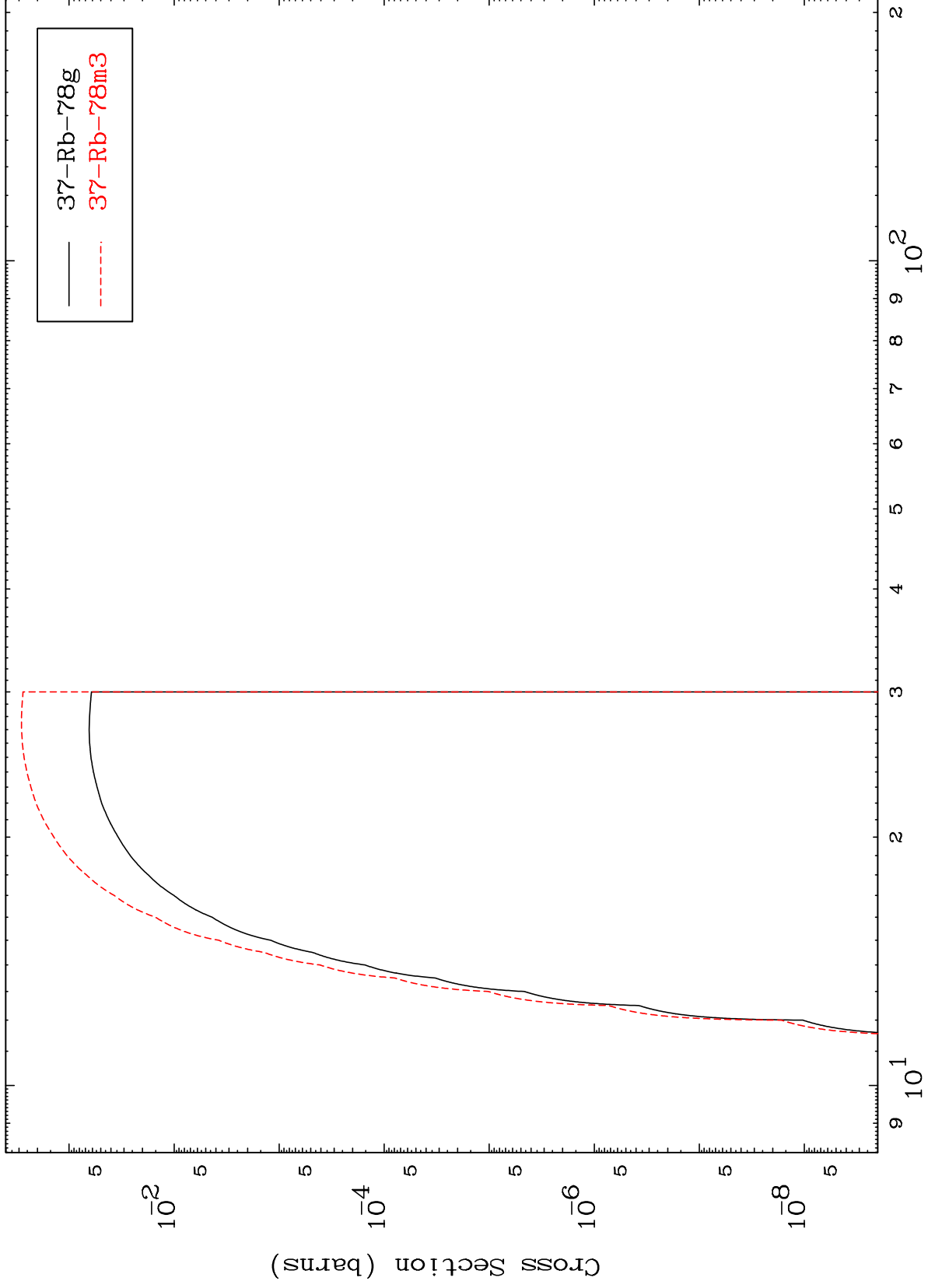
39-Y -80

MAT 3899

(n,2n) p

39-Y -80

Radionuclide Production Cross Section



19

Incident Energy (MeV)

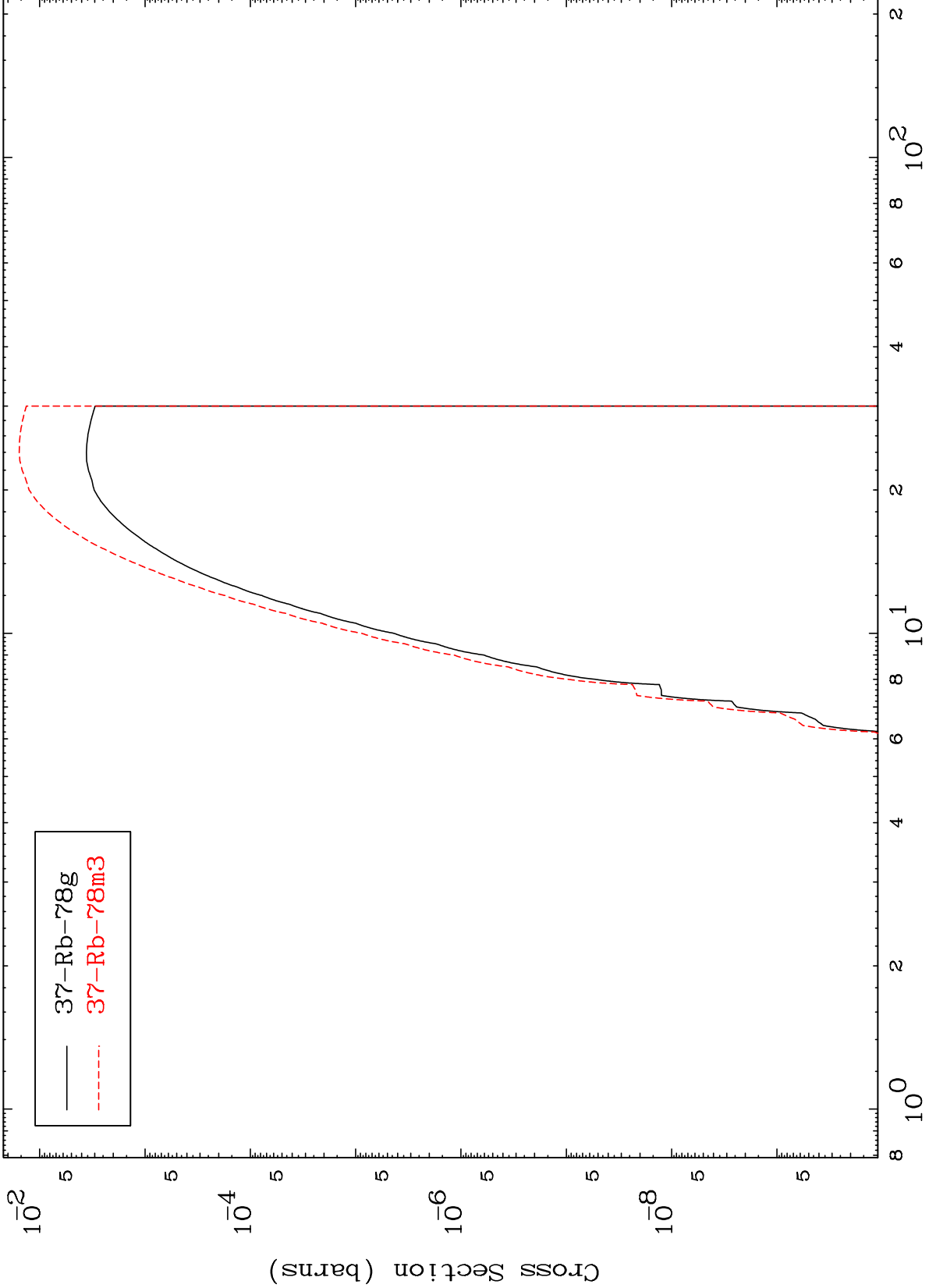
39-Y -80

MAT 3899

(n,He-3)

39-Y -80

Radionuclide Production Cross Section



— 37-Rb-78g  
- - - 37-Rb-78m3

Incident Energy (MeV)

39-Y -80

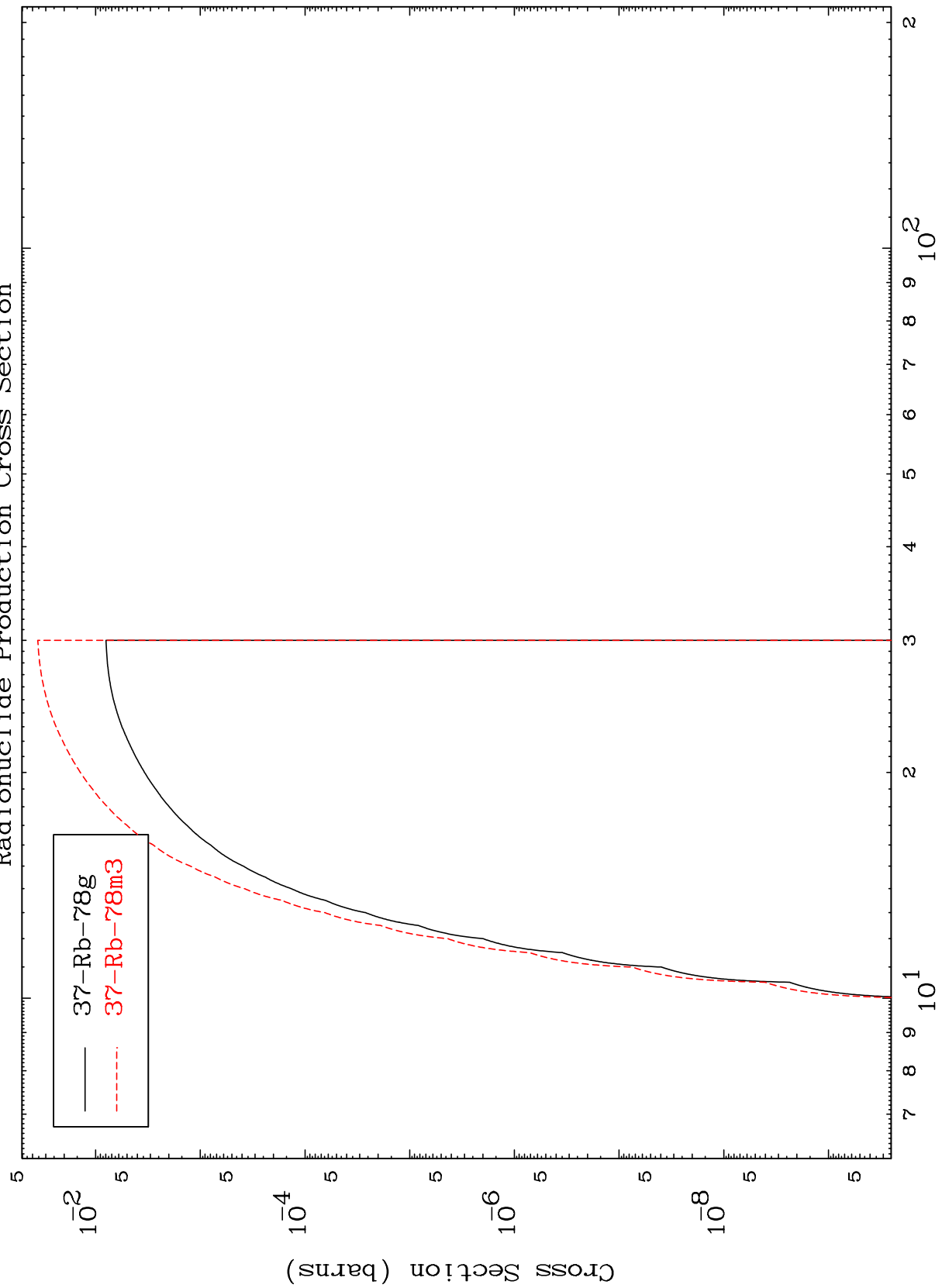
20

MAT 3899

(n,p) d

39-Y -80

Radionuclide Production Cross Section



— 37-Rb-78g  
- - - 37-Rb-78m3