

Program EVALPLOT  
(Version 2015-2)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

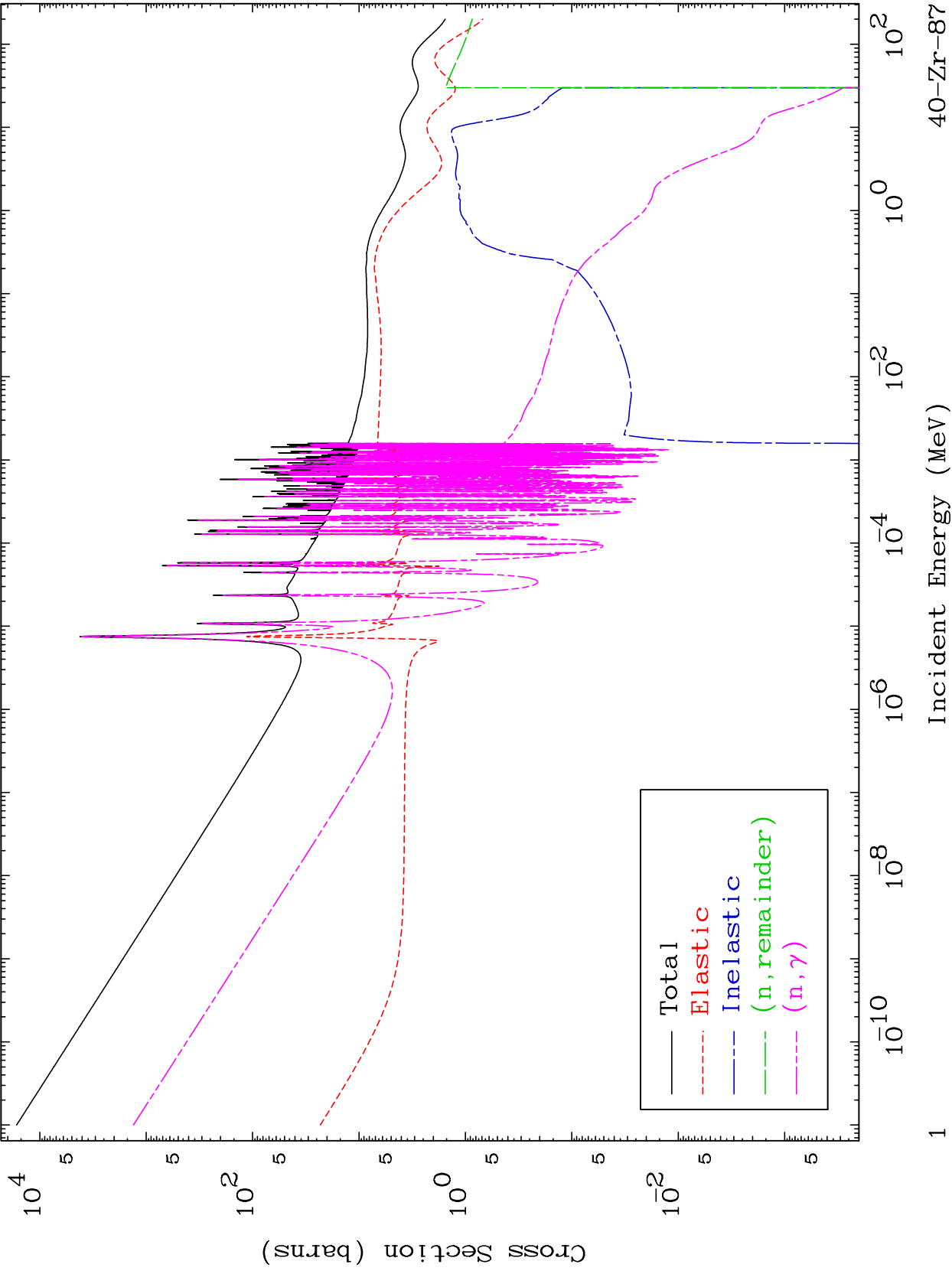
E.Mail:redcullen1@comcast.net  
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 4017

Major  
293 Kelvin Cross Sections

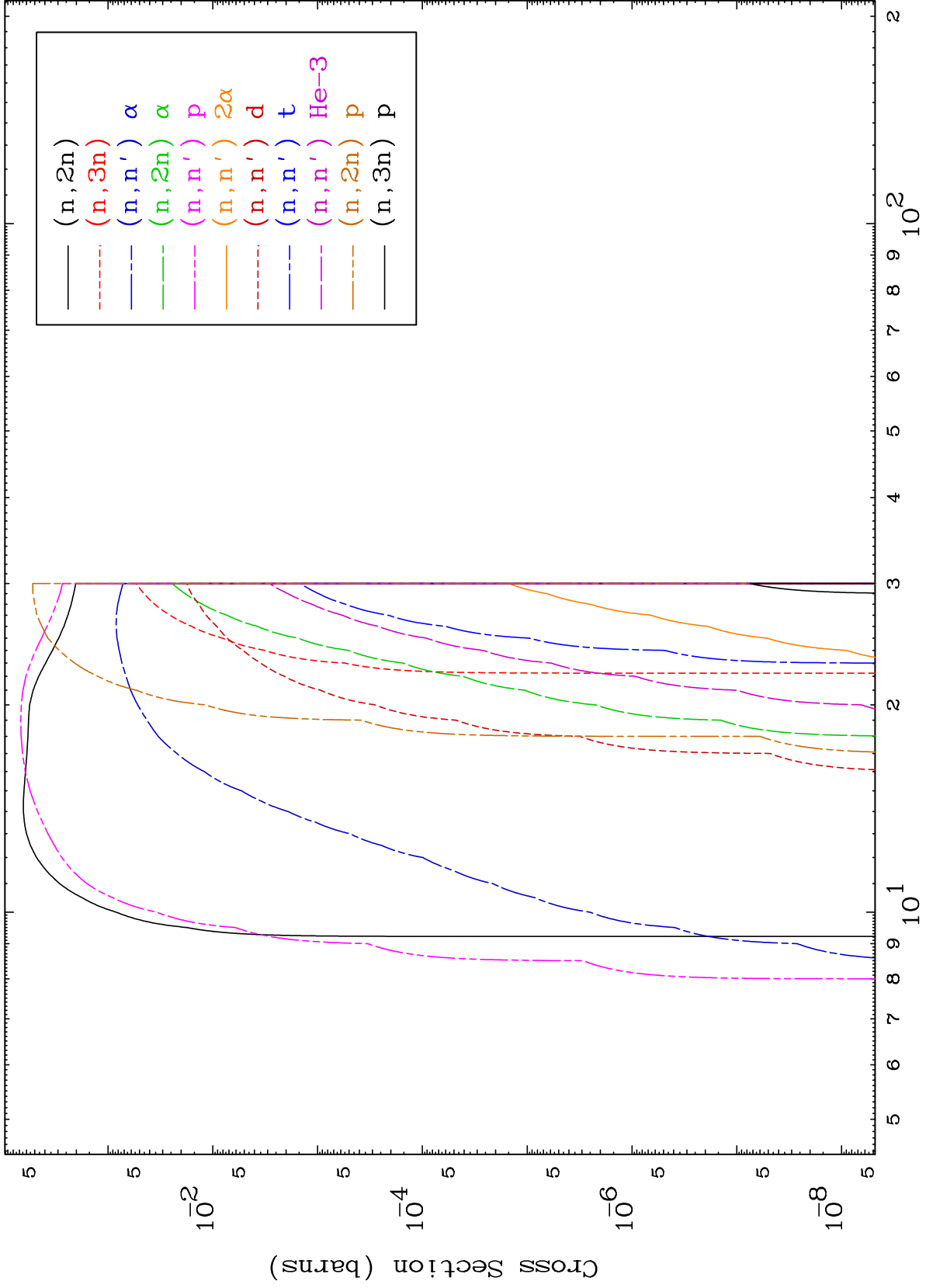
40-Zr-87

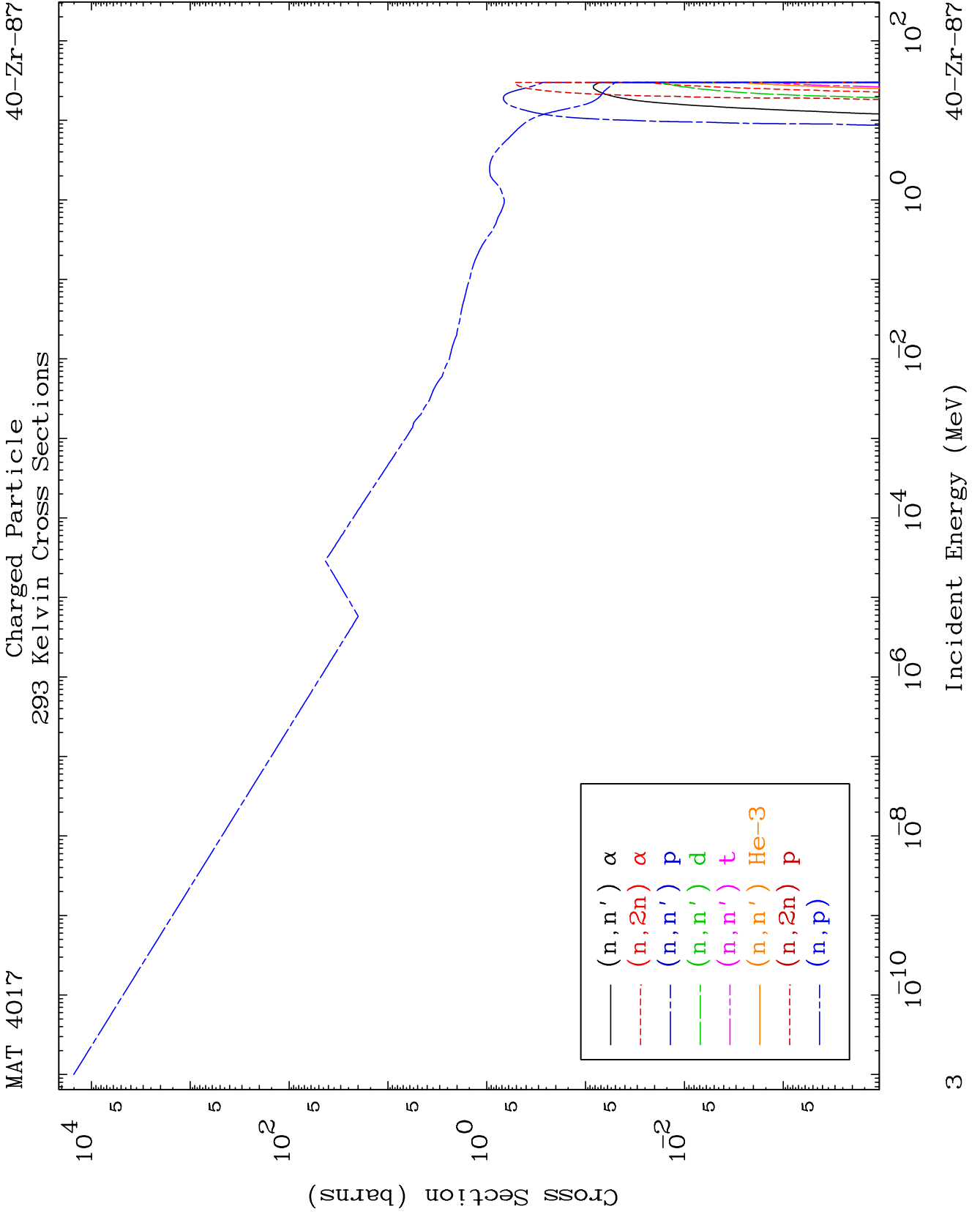


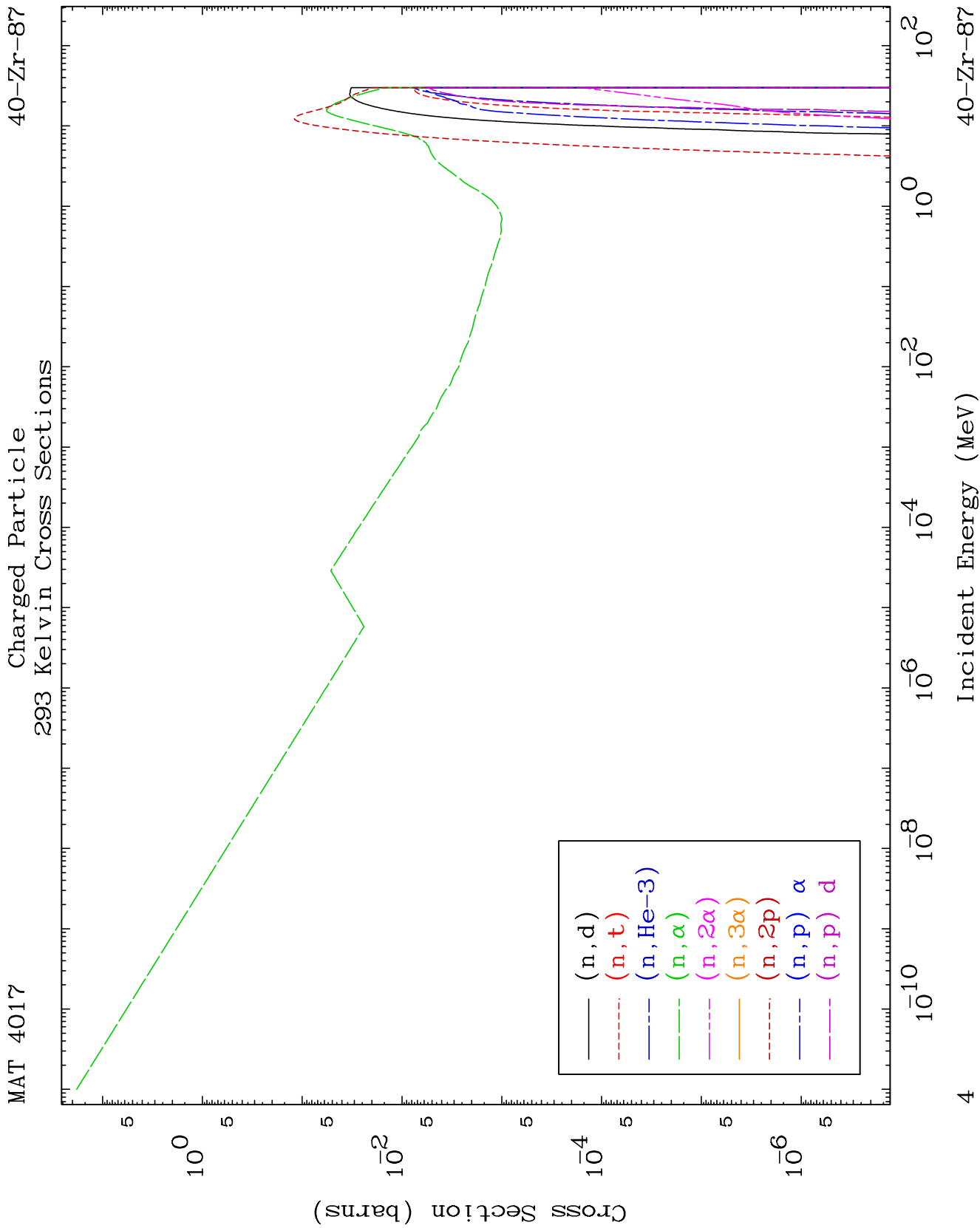
MAT 4017

Neutron Production  
293 Kelvin Cross Sections

40-Zr-87



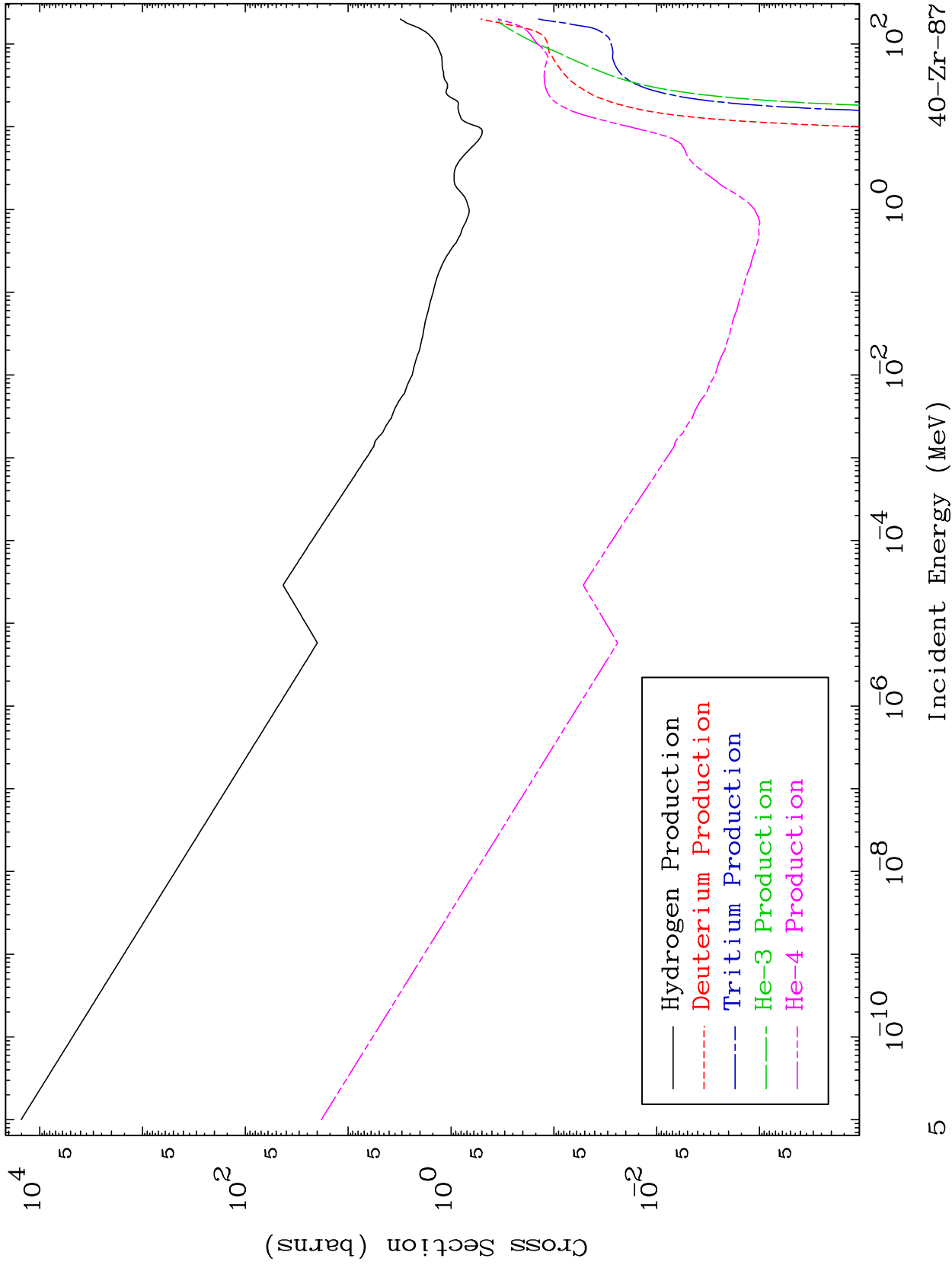




MAT 4017

Particle Production  
293 Kelvin Cross Sections

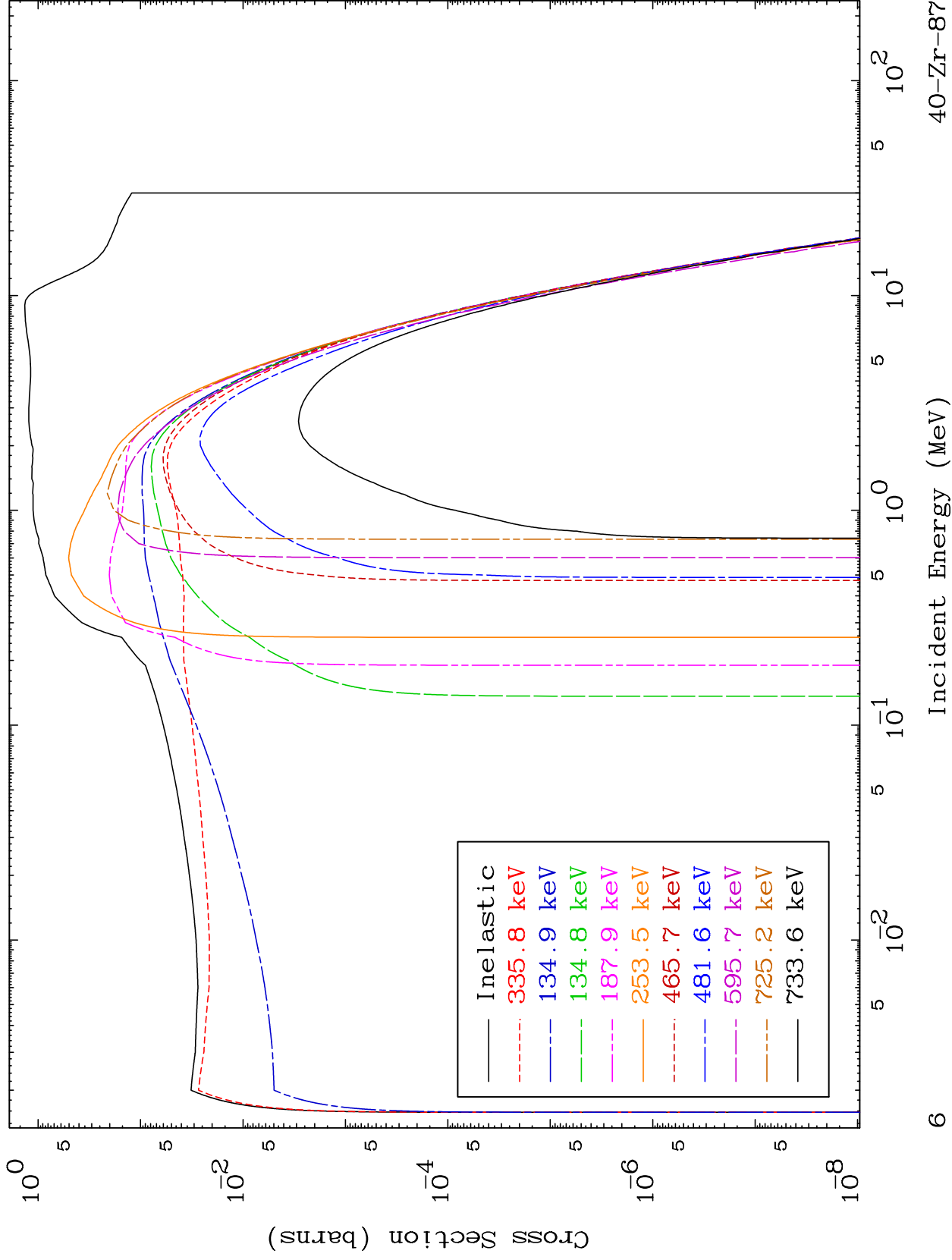
40-Zr-87



MAT 4017

(n,n') Level  
293 Kelvin Cross Sections

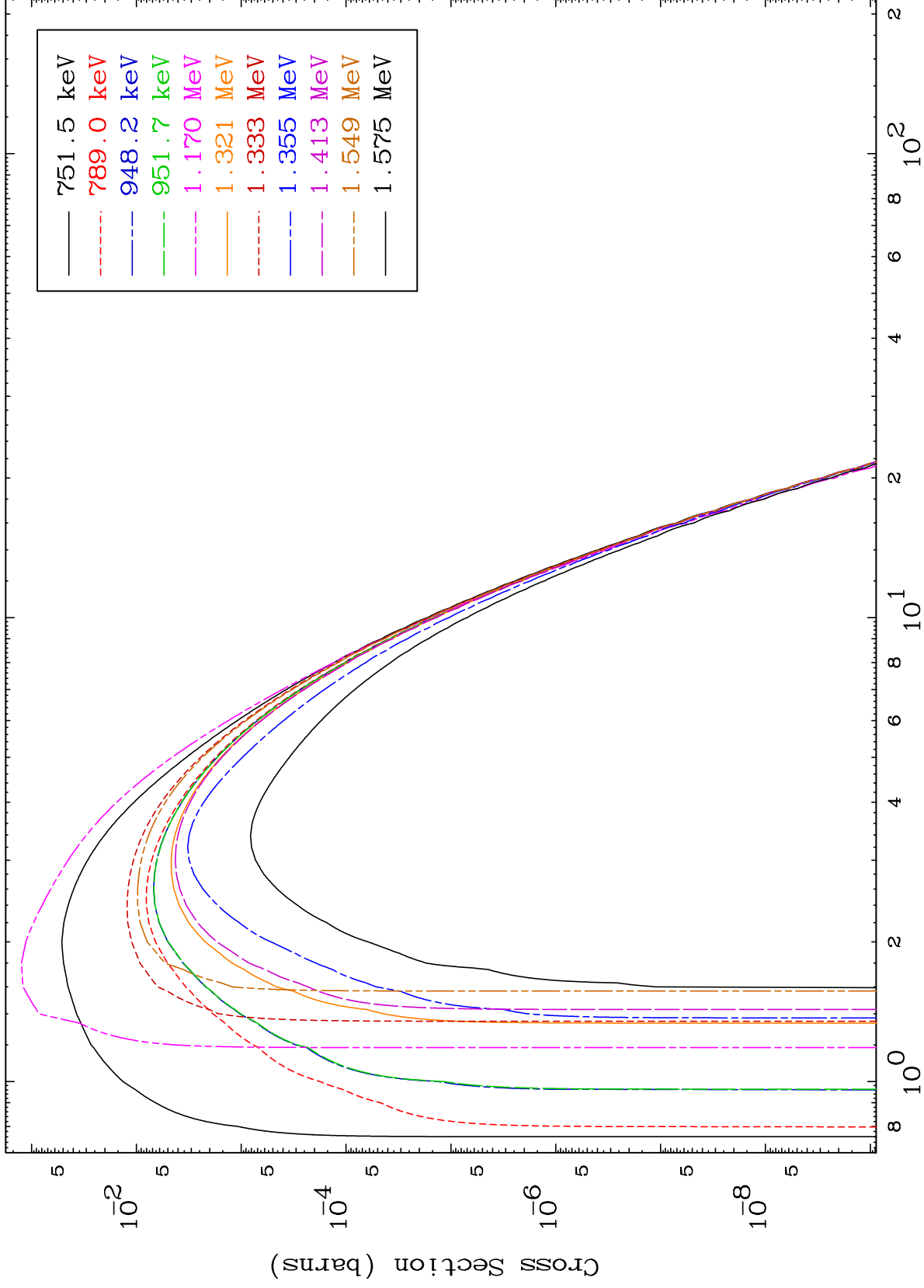
40-Zr-87



MAT 4017

(n,n') Level  
293 Kelvin Cross Sections

40-Zr-87

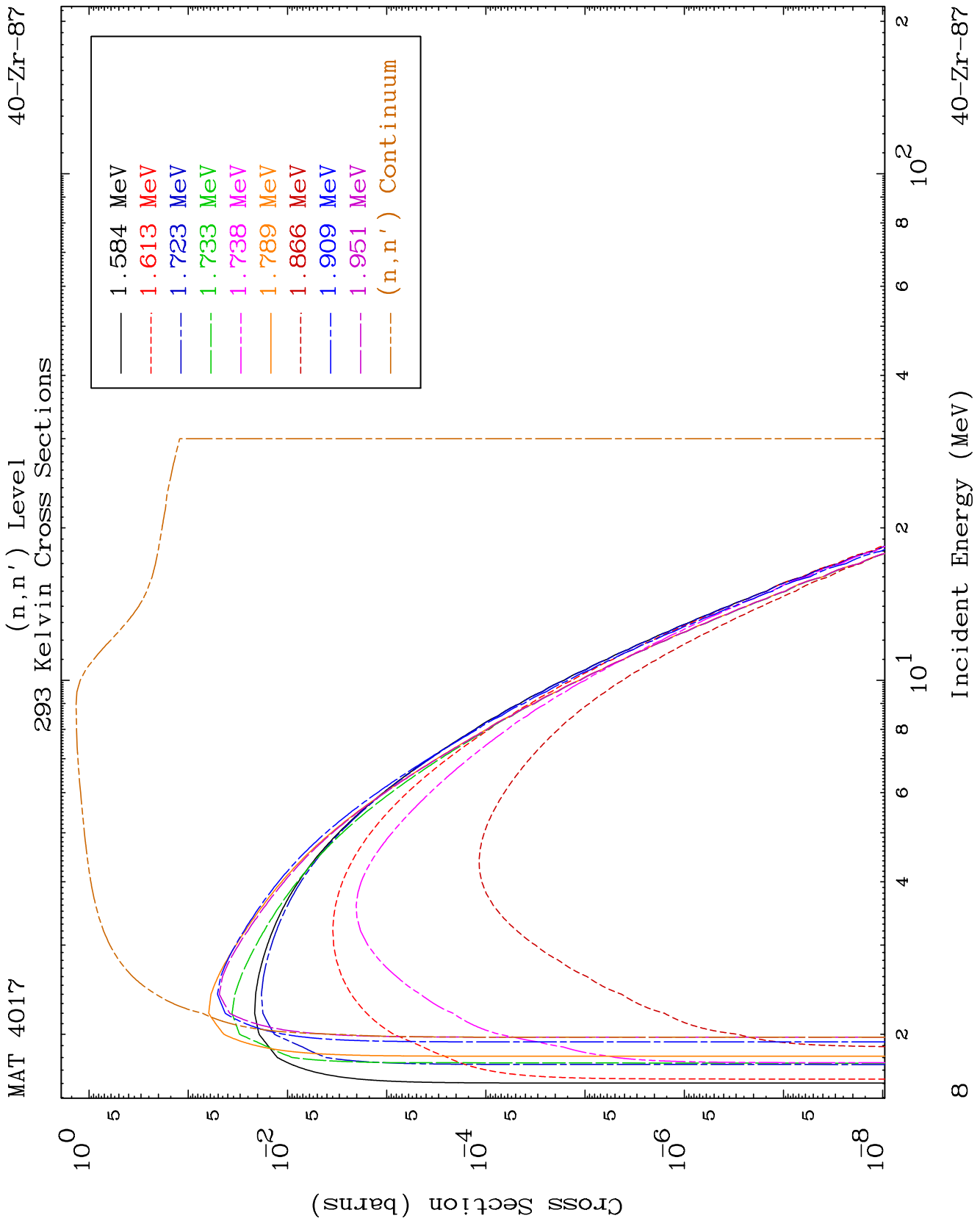


7

Incident Energy (MeV)

40-Zr-87

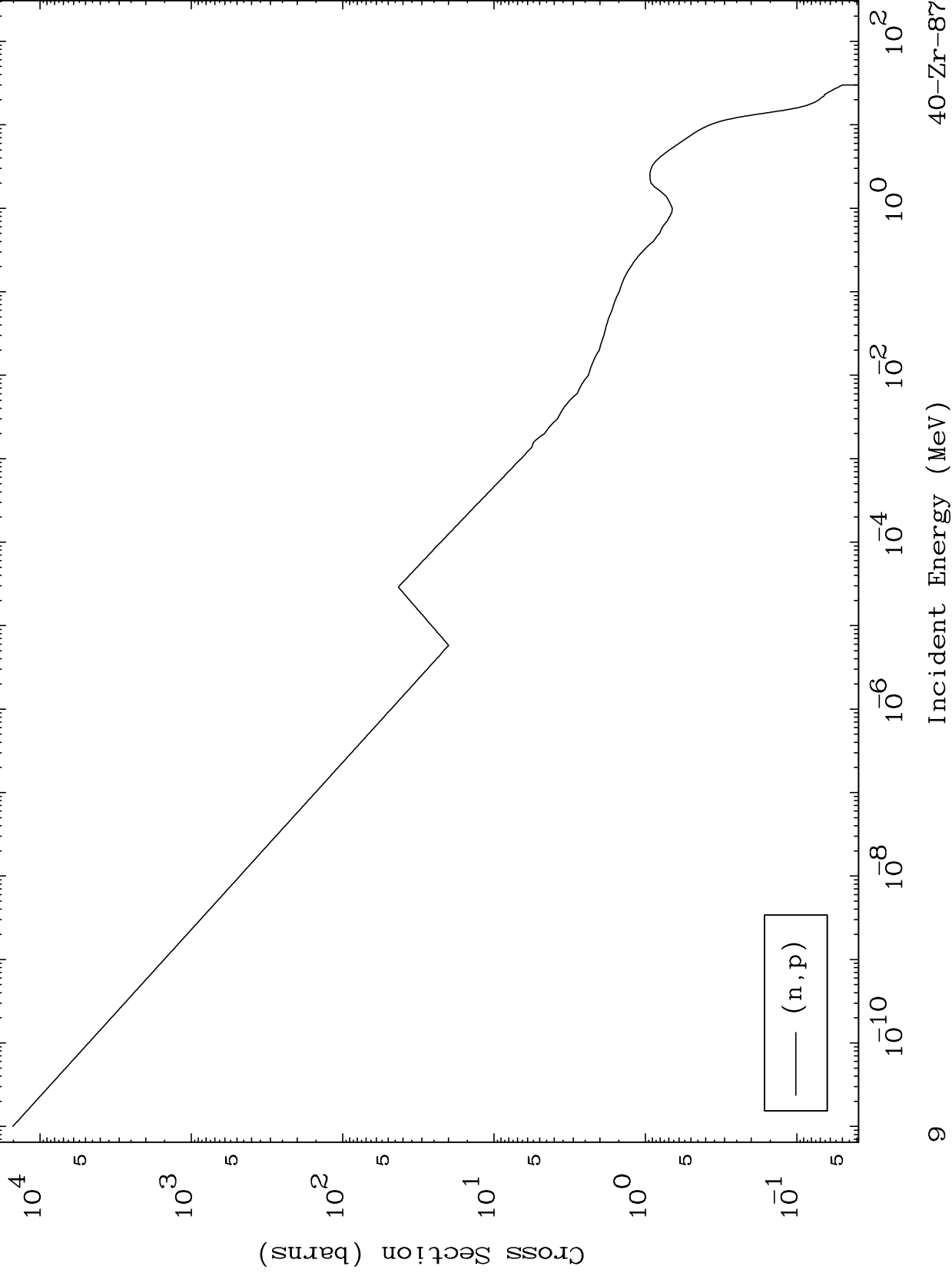




MAT 4017

(n,p) Levels  
293 Kelvin Cross Sections

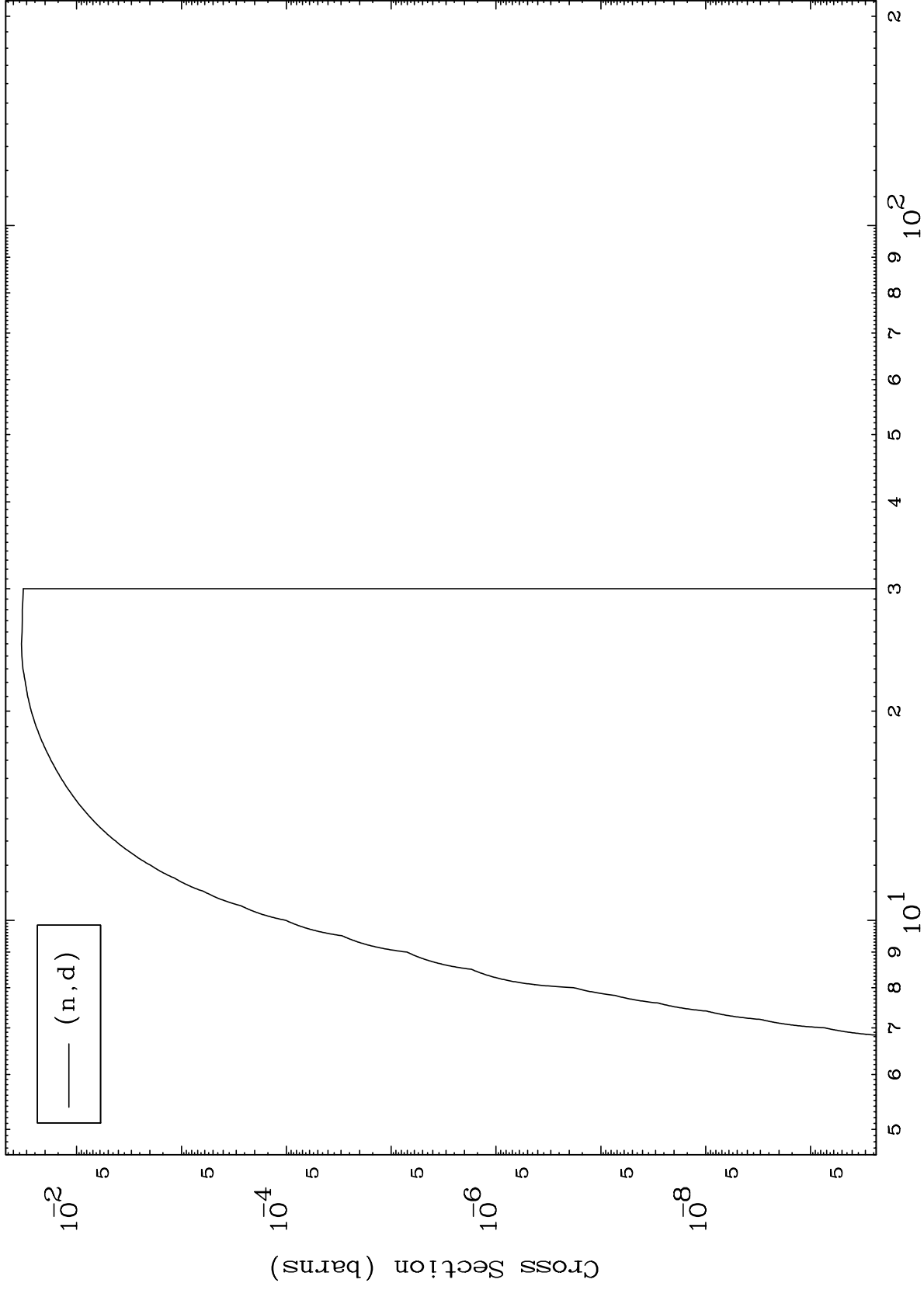
40-Zr-87



MAT 4017

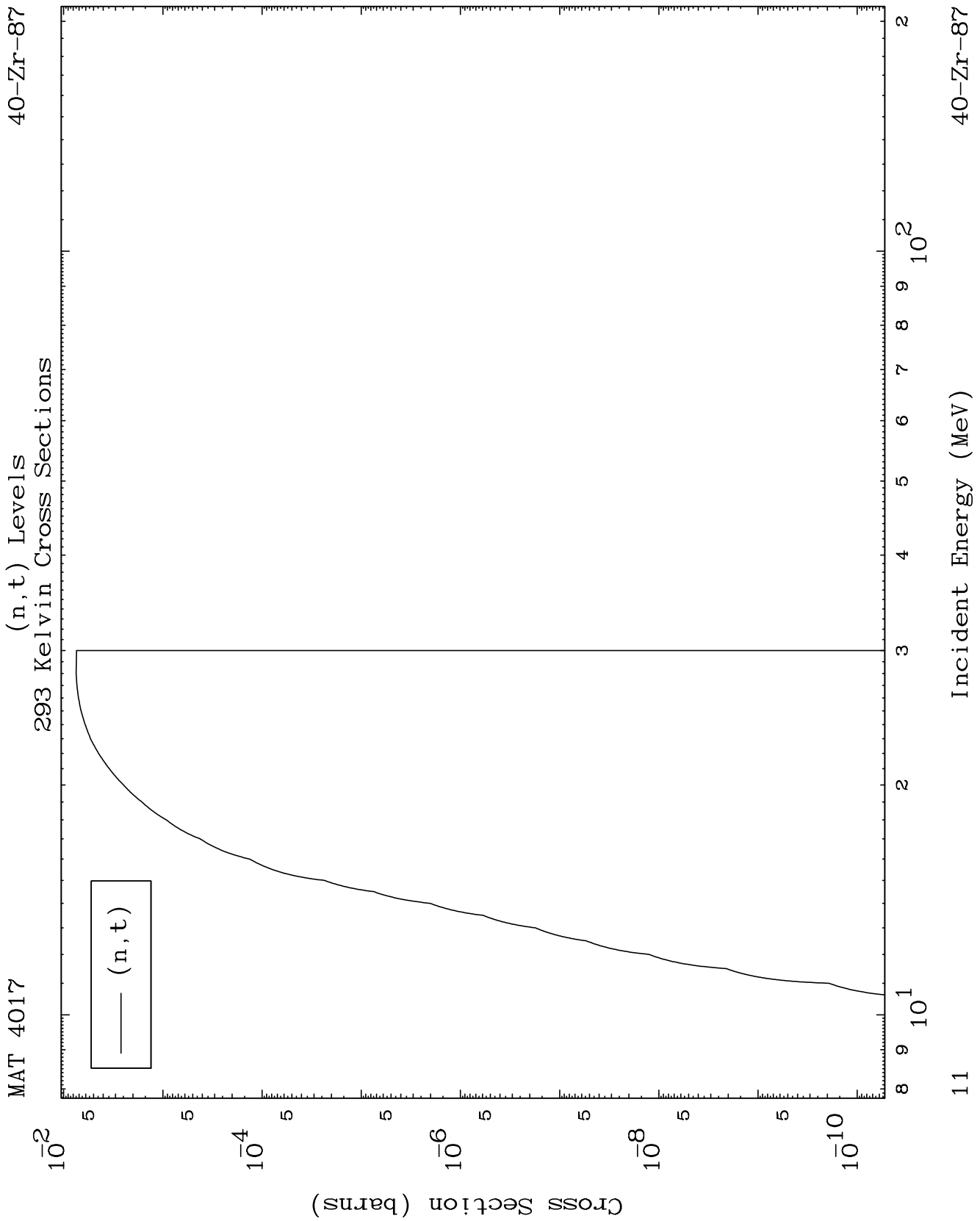
(n,d) Levels  
293 Kelvin Cross Sections

40-Zr-87



Incident Energy (MeV)

40-Zr-87



$10^{-2}$

$10^{-4}$

$10^{-6}$

$10^{-8}$

$10^{-10}$

8 9 10 1

2

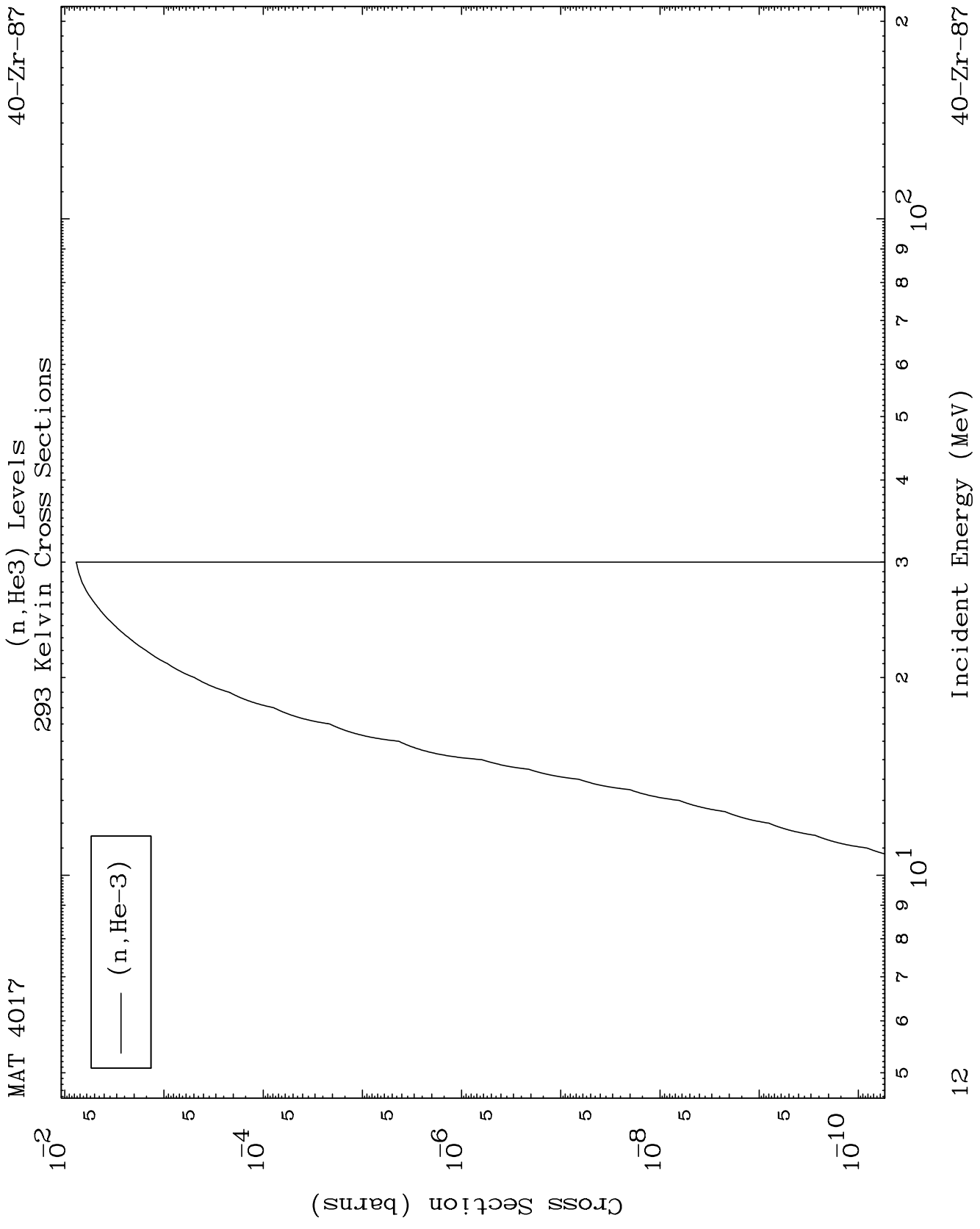
3

4 5 6 7 8 9

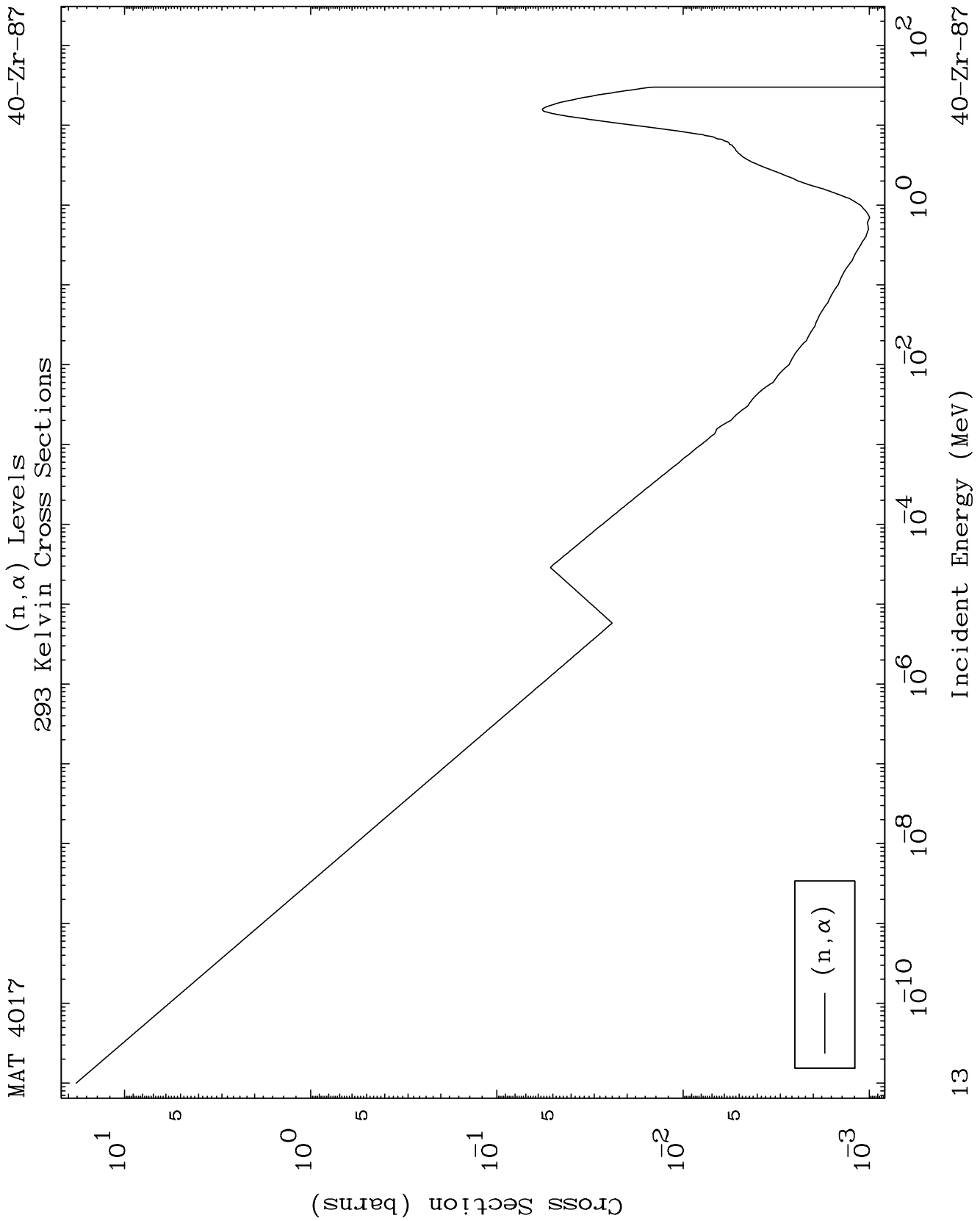
$10^2$

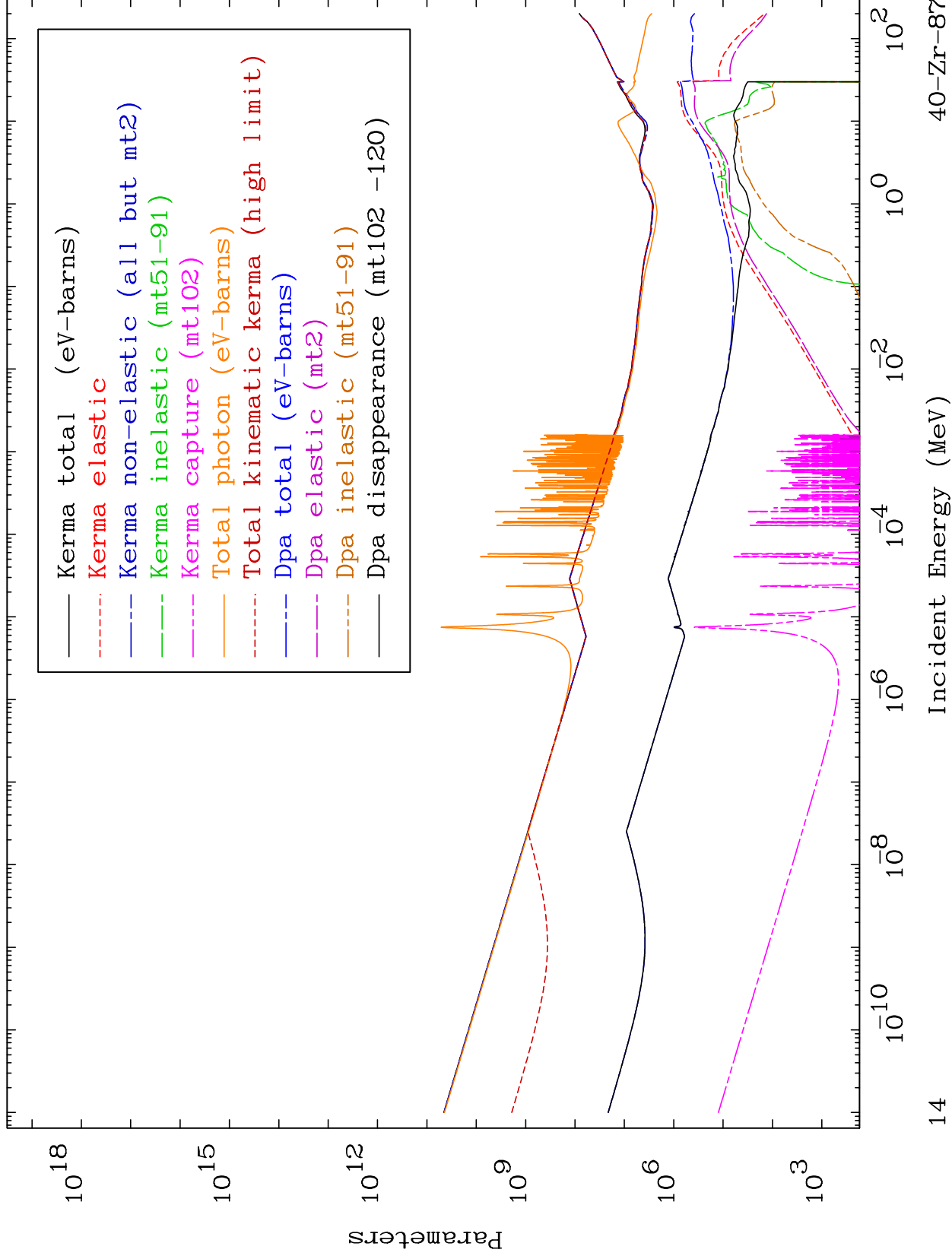
2

(n,t)



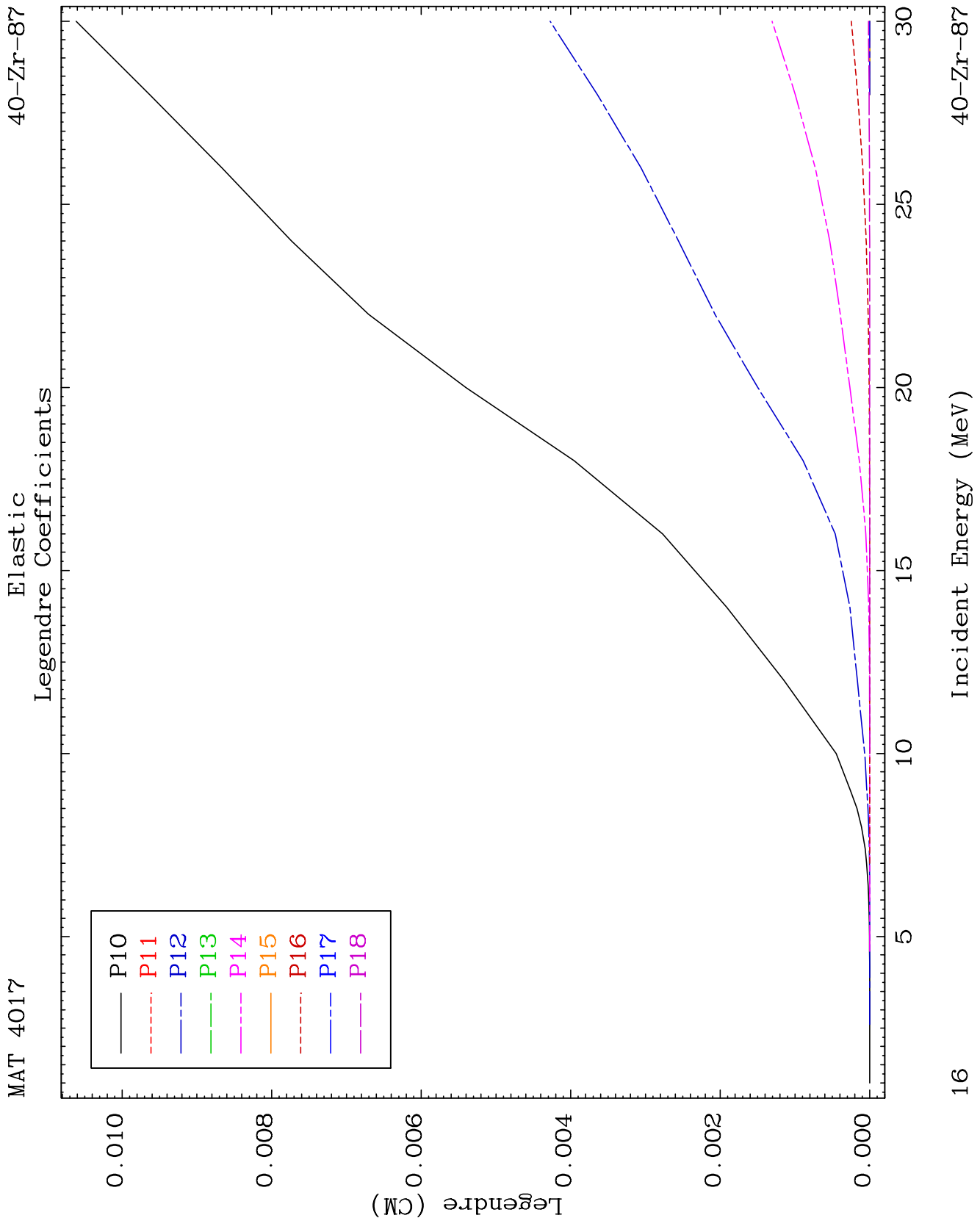
— (n, He-3)

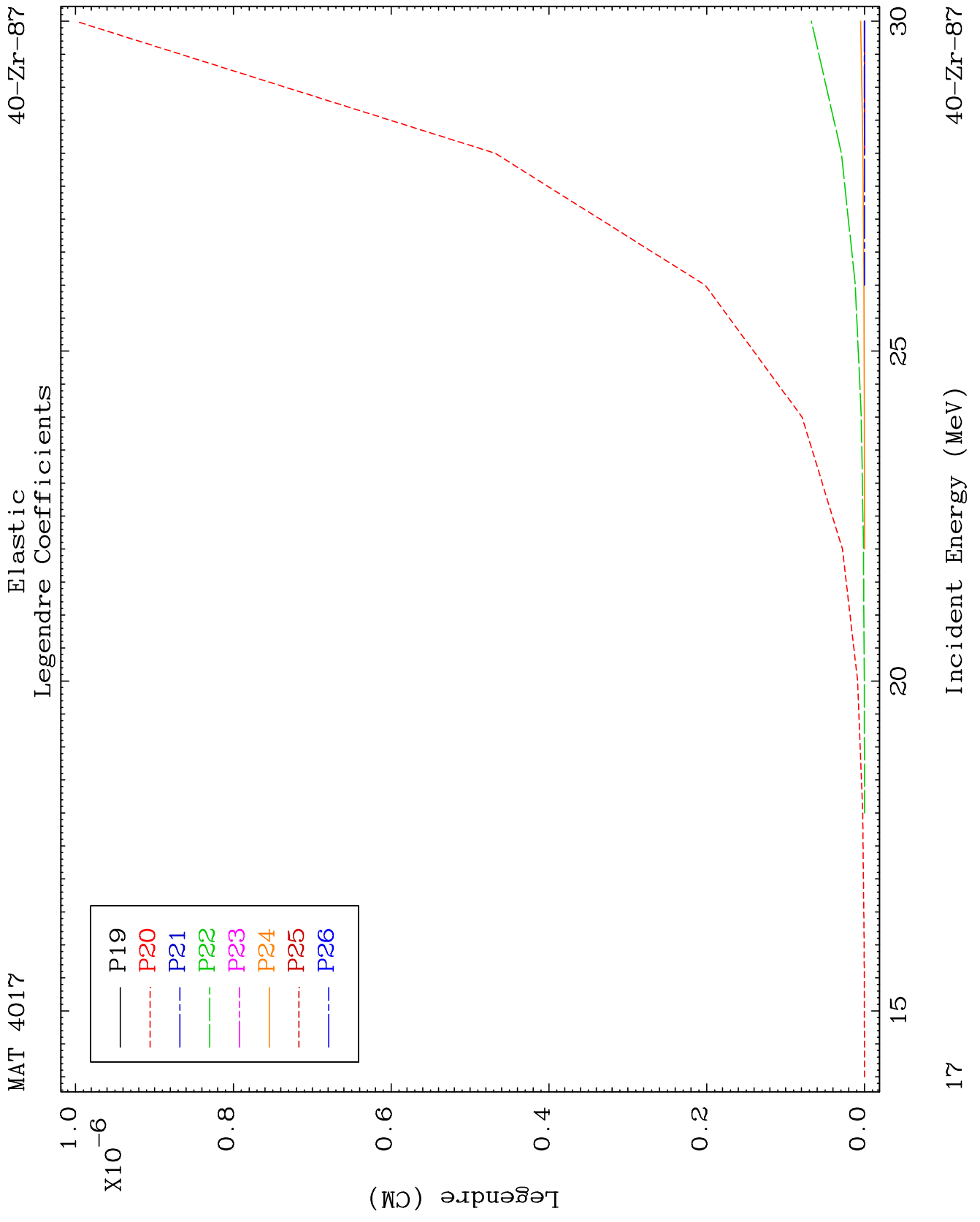












MAT 4017

Elastic Legendre Coefficients

40-Zr-87

17

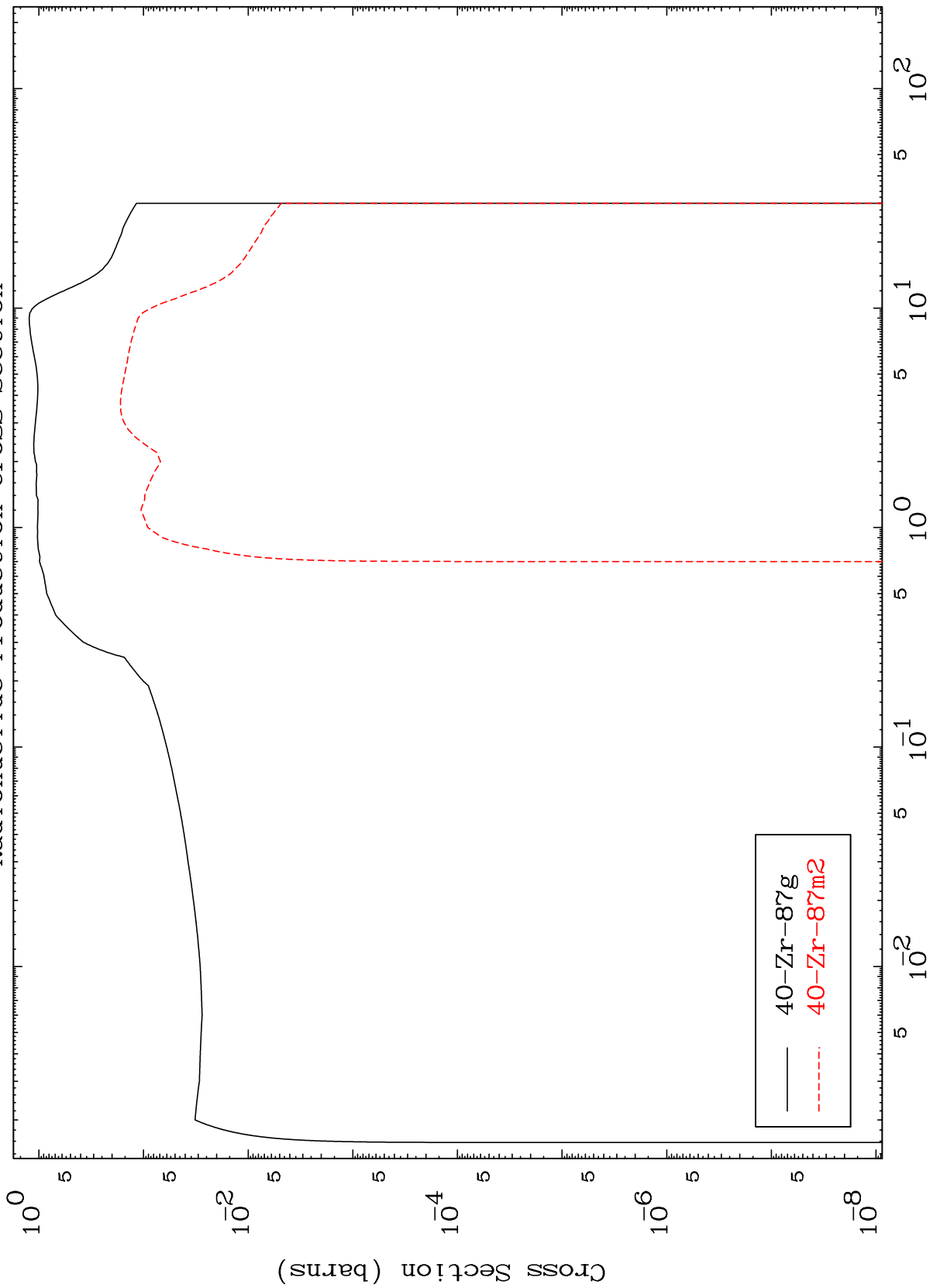
Incident Energy (MeV)

40-Zr-87

MAT 4017

40-Zr-87

Inelastic  
Radionuclide Production Cross Section

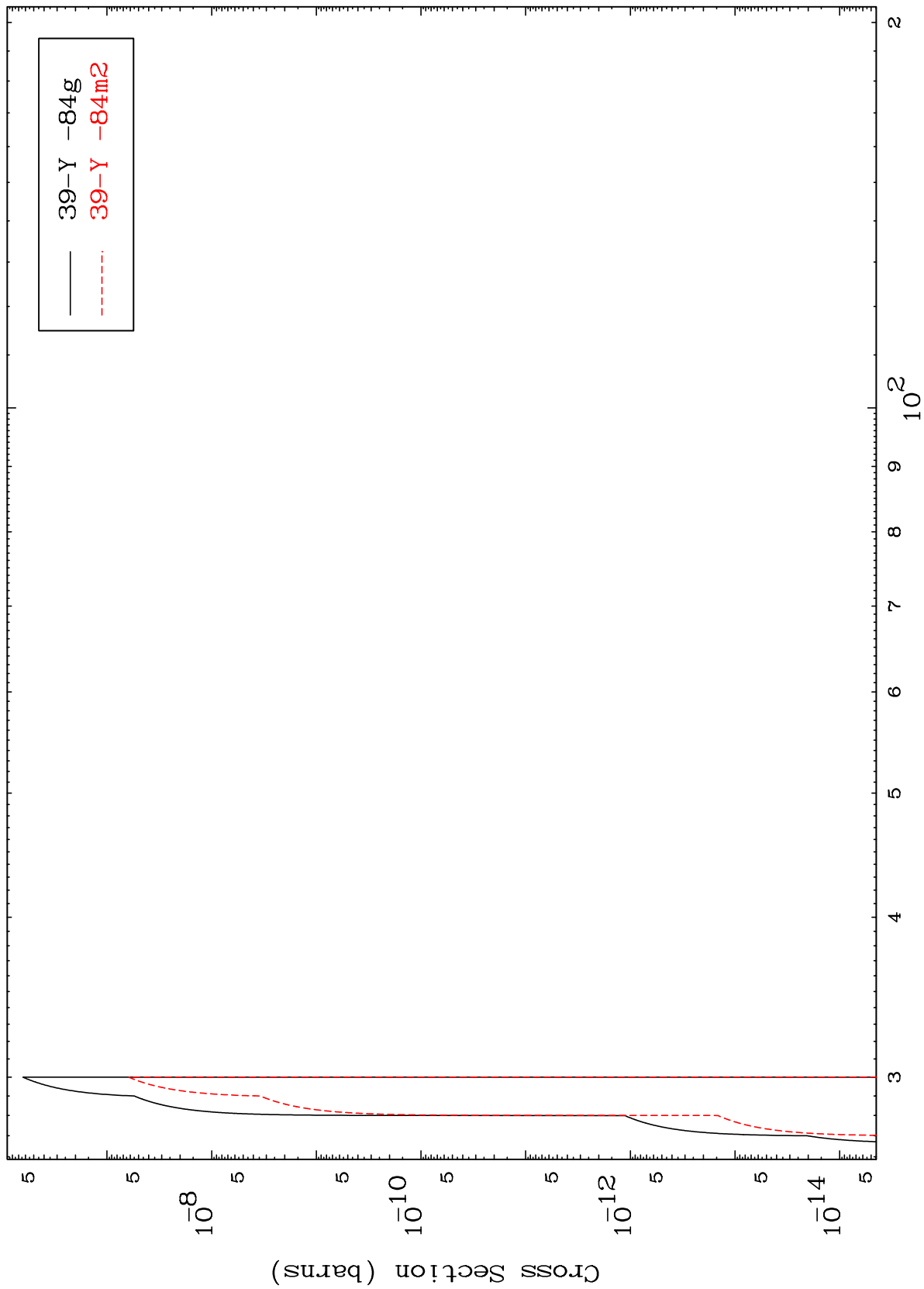


MAT 4017

(n,2n) d

40-Zr-87

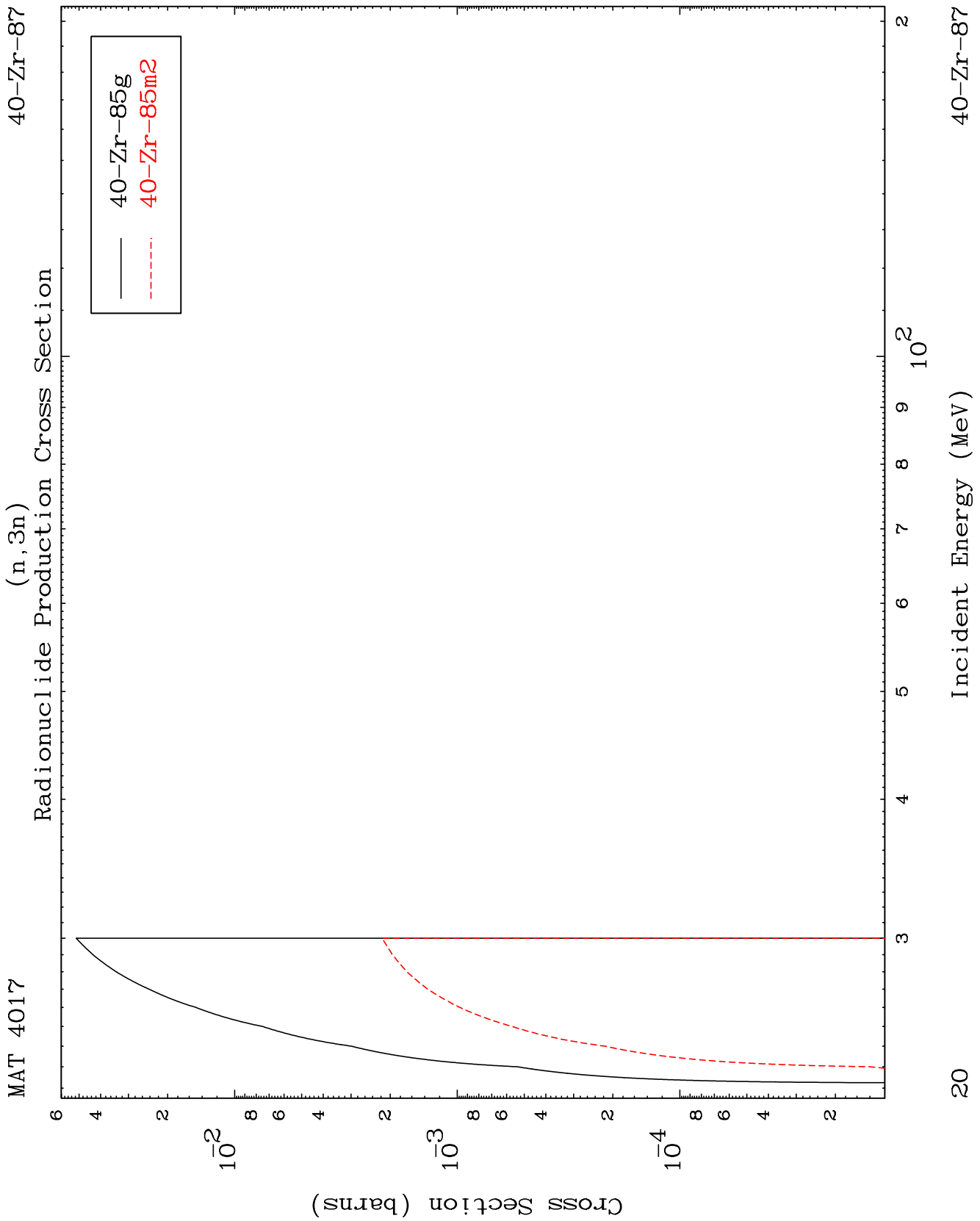
Radionuclide Production Cross Section



19

Incident Energy (MeV)

40-Zr-87

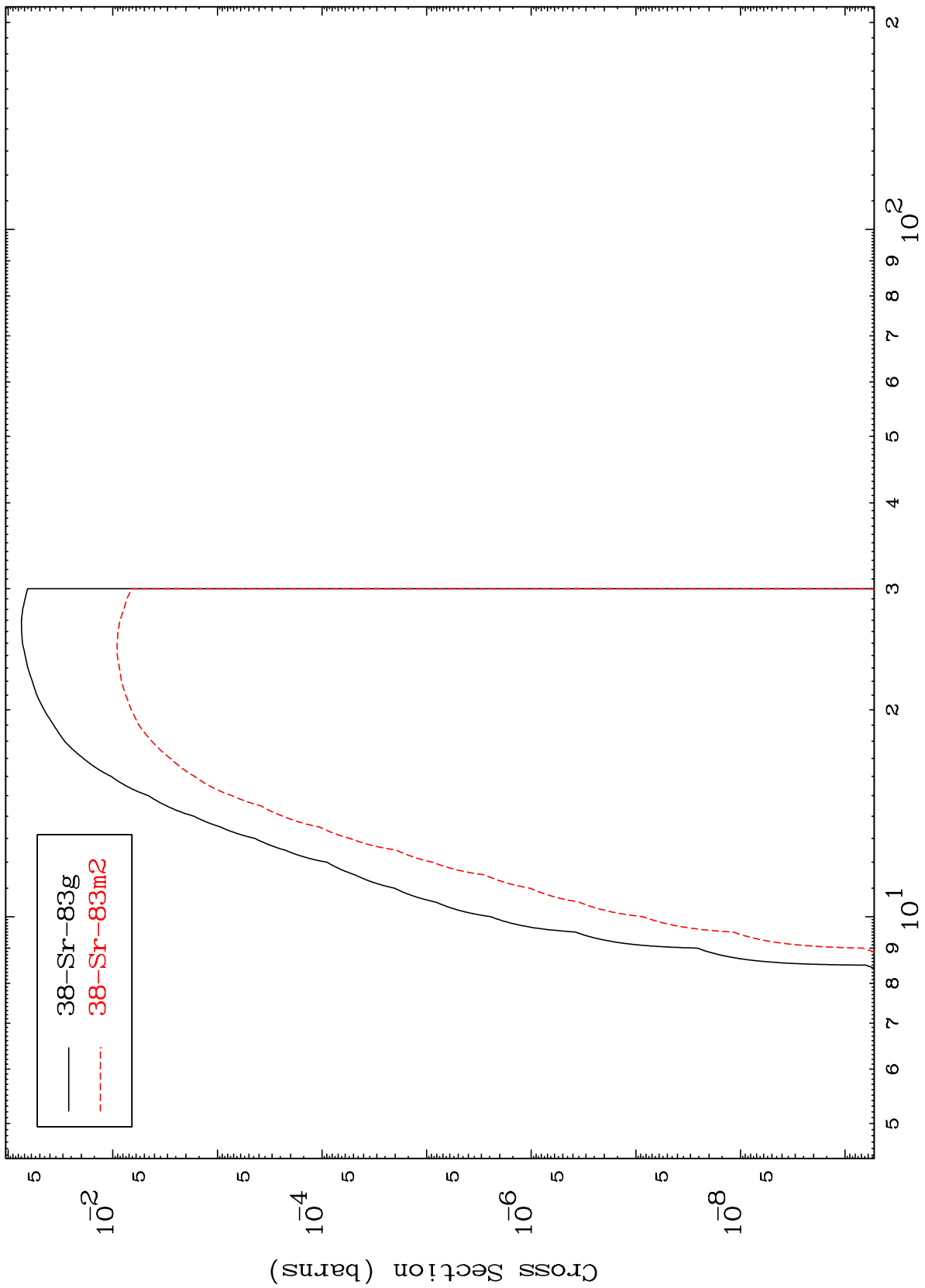


MAT 4017

(n,n')  $\alpha$

40-Zr-87

Radionuclide Production Cross Section

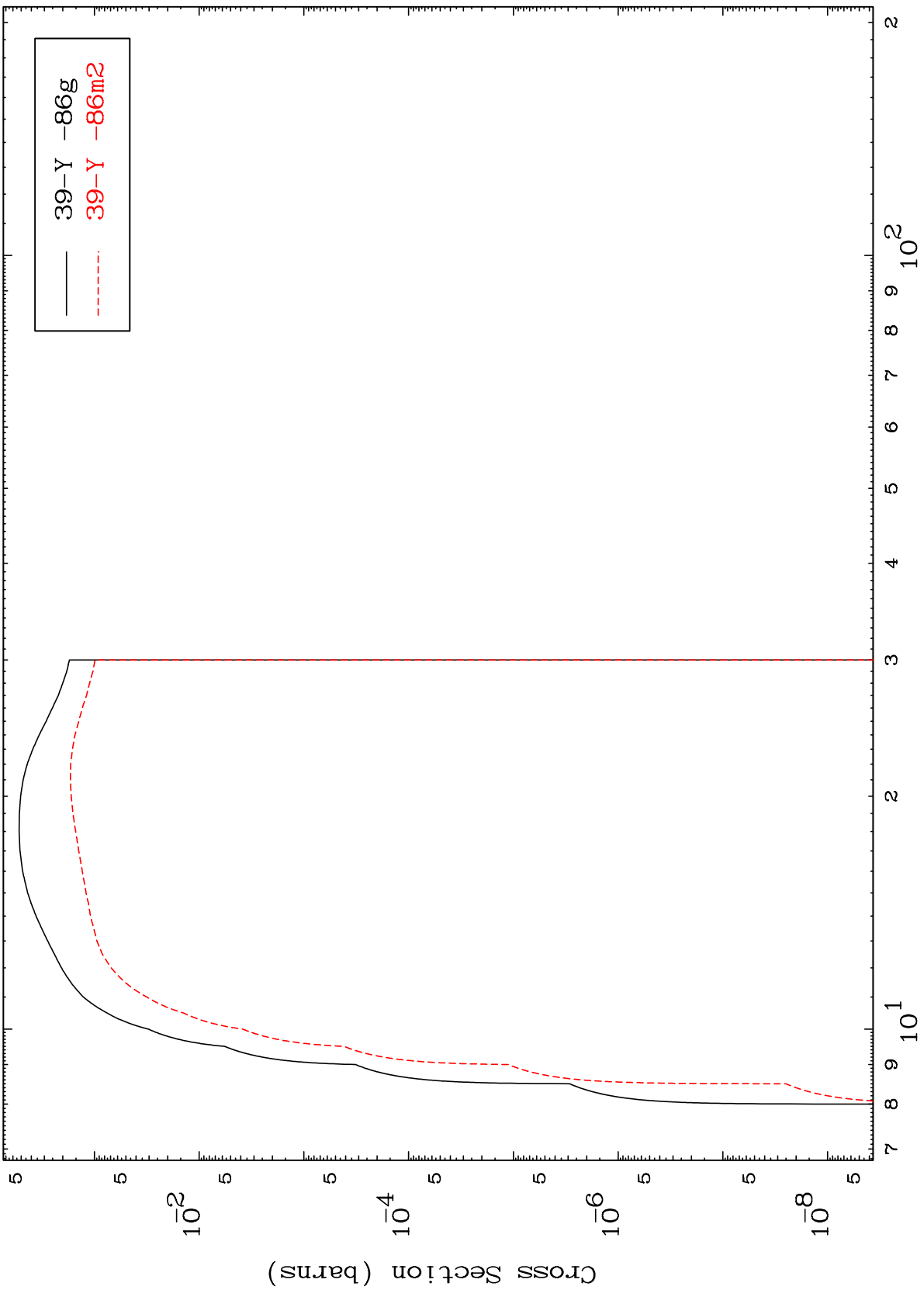


— 38-Sr-83g  
- - - 38-Sr-83m2

MAT 4017

40-Zr-87

$(n, n')$  p  
Radionuclide Production Cross Section



Incident Energy (MeV)

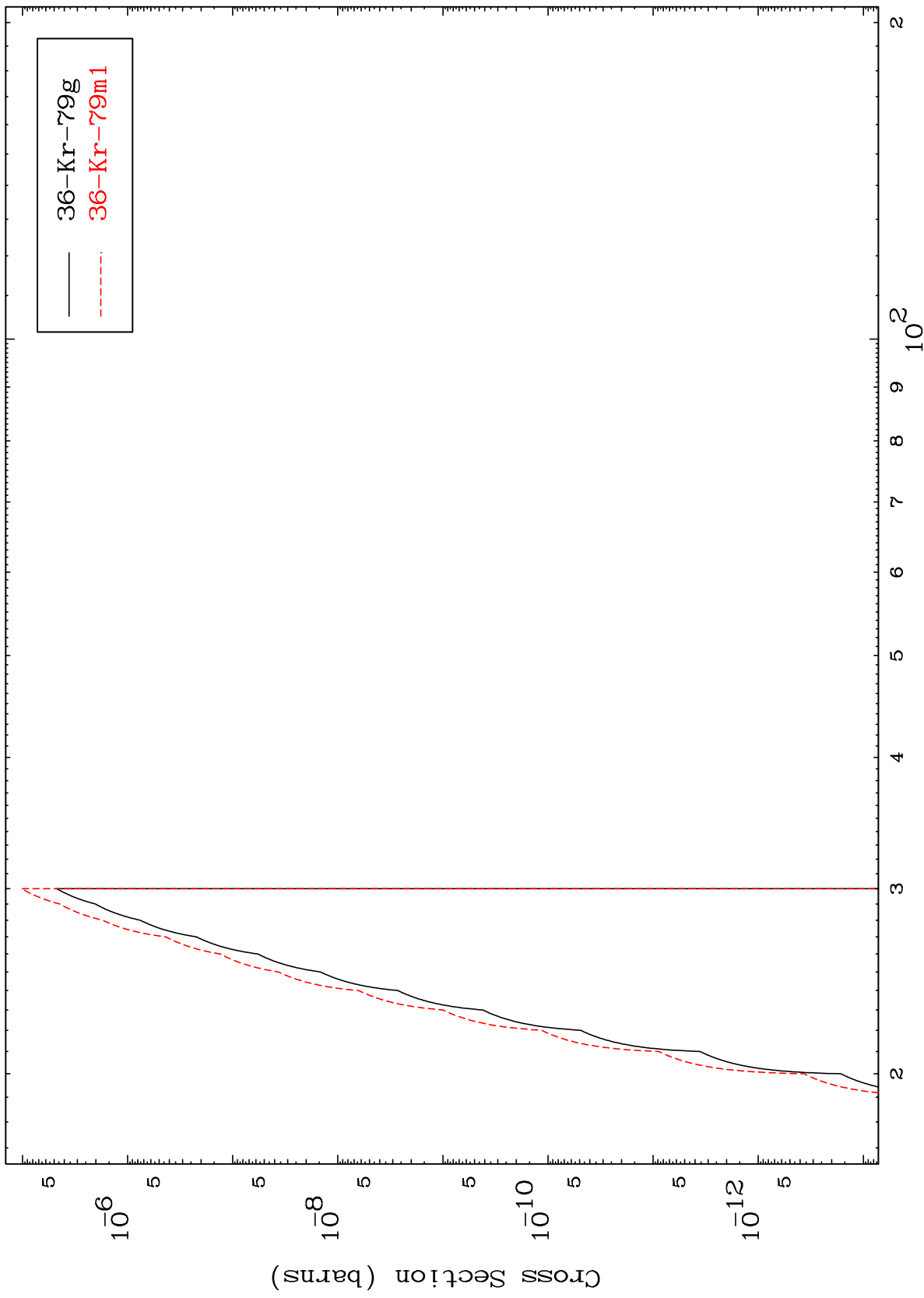
40-Zr-87

22

MAT 4017

40-Zr-87

(n,n') 2α  
Radionuclide Production Cross Section



40-Zr-87

Incident Energy (MeV)

23

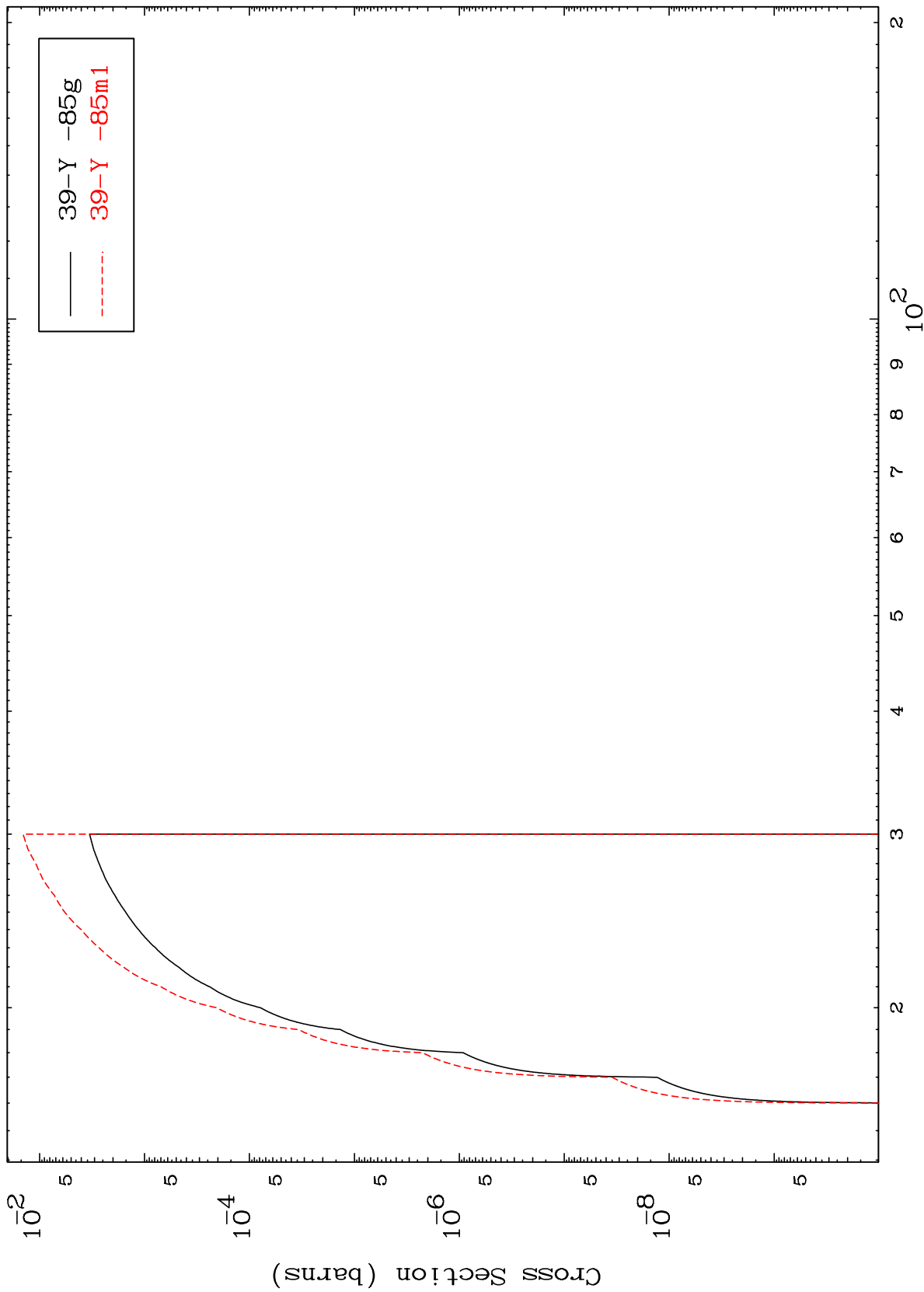


MAT 4017

(n,n') d

40-Zr-87

Radionuclide Production Cross Section



24

Incident Energy (MeV)

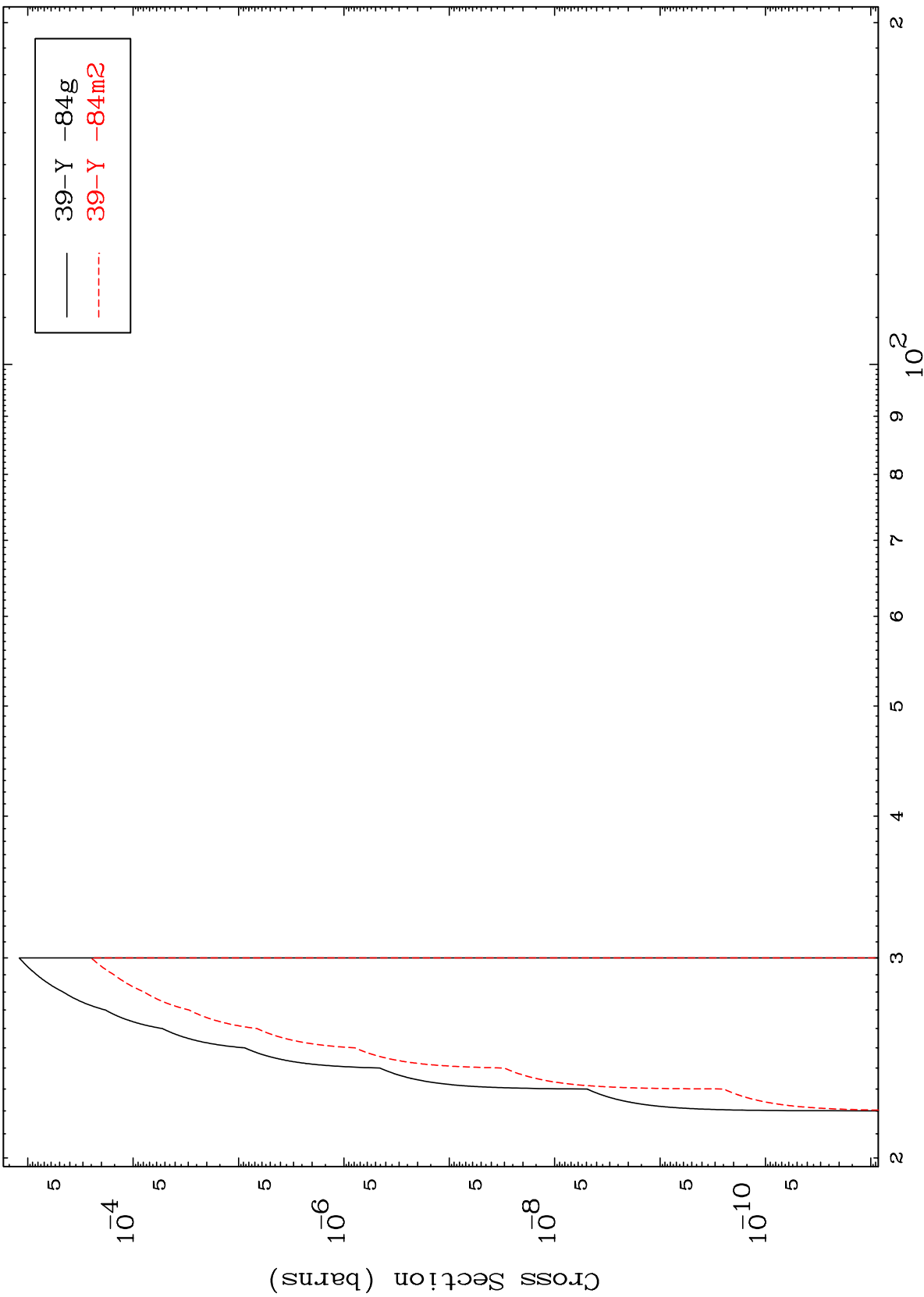
40-Zr-87

MAT 4017

(n,n') t

40-Zr-87

Radionuclide Production Cross Section



25

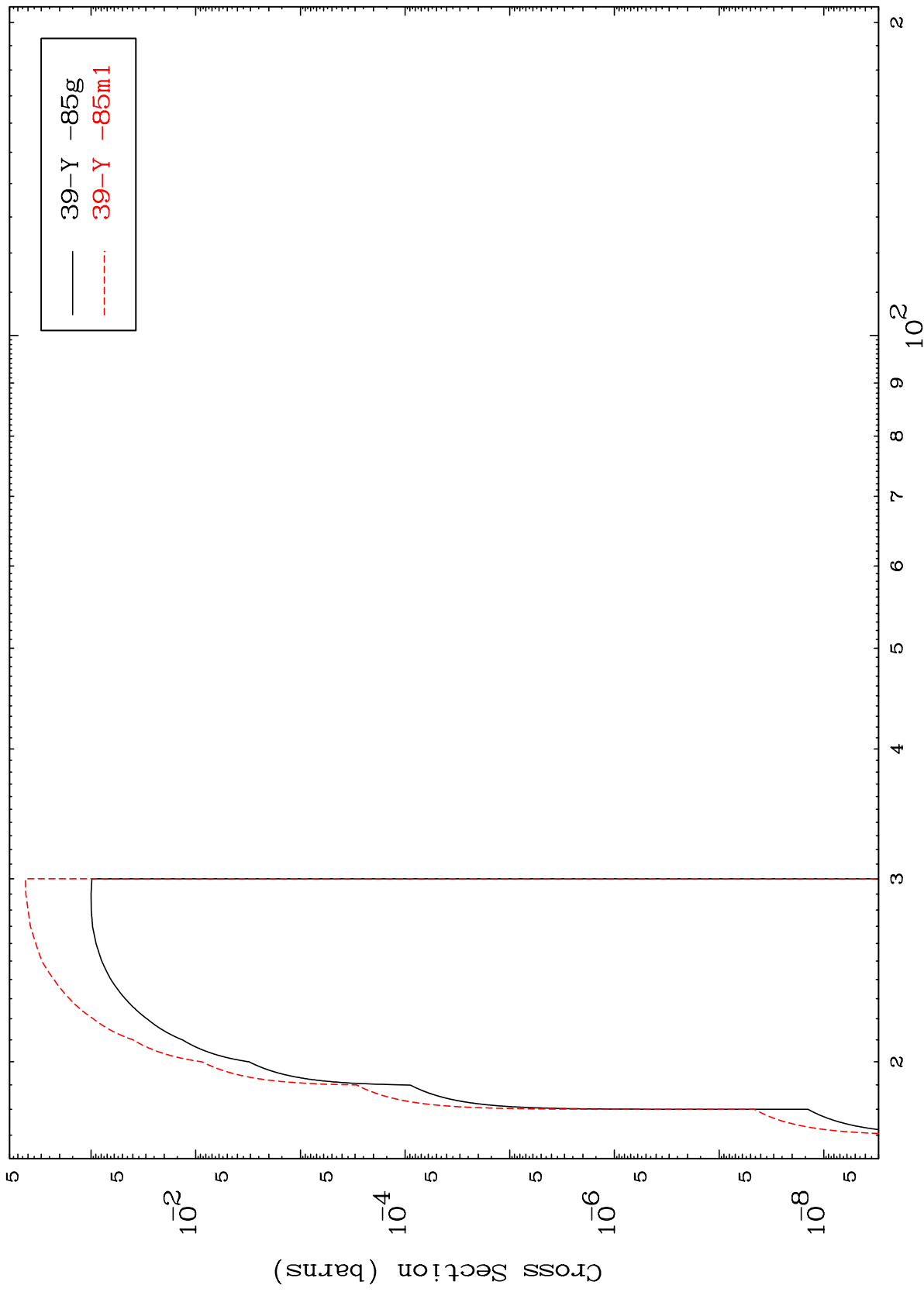
Incident Energy (MeV)

40-Zr-87

MAT 4017

40-Zr-87

(n,2n) p  
Radionuclide Production Cross Section



26

Incident Energy (MeV)

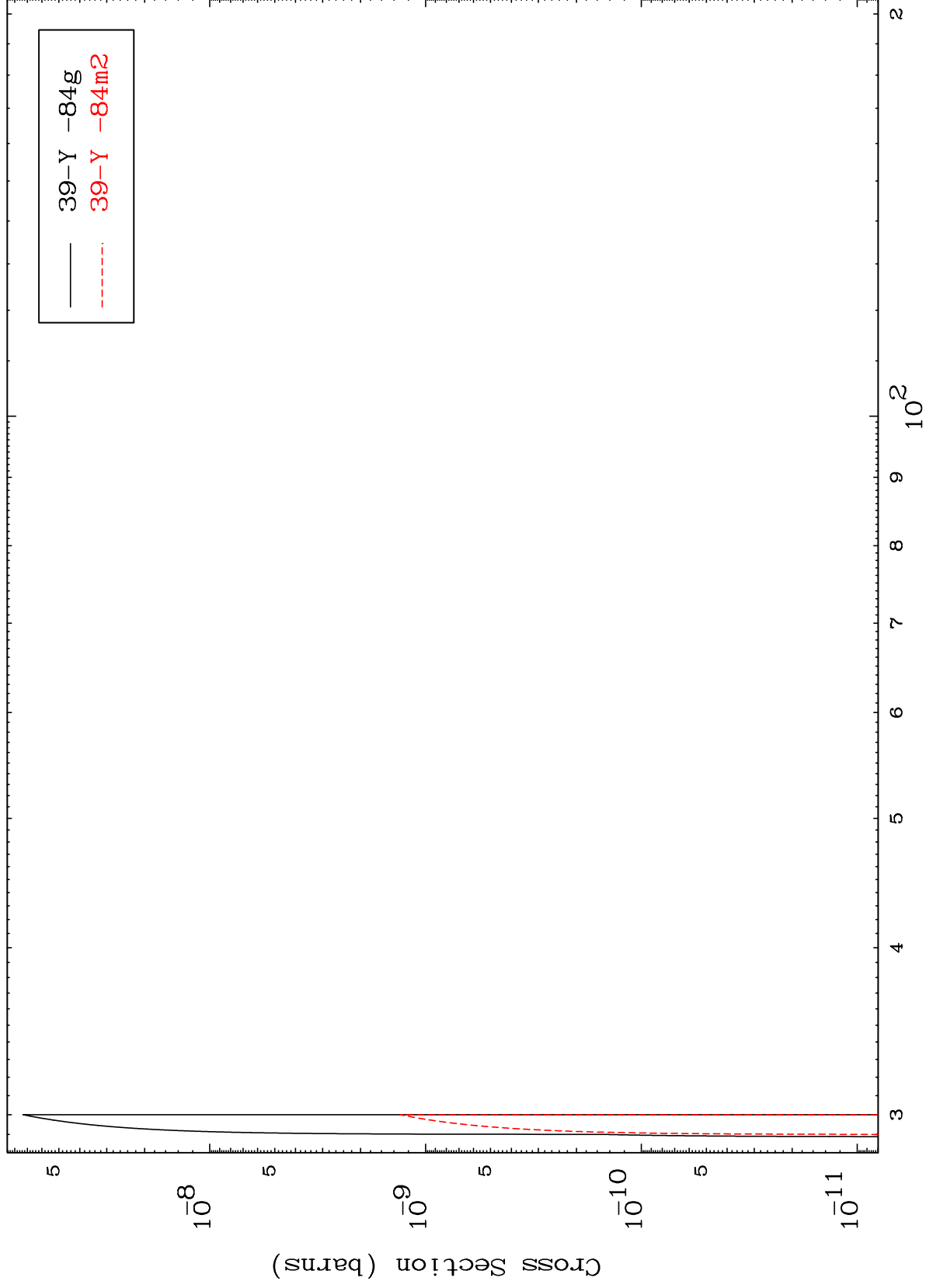
40-Zr-87

MAT 4017

(n,3n) p

40-Zr-87

Radionuclide Production Cross Section



27

Incident Energy (MeV)

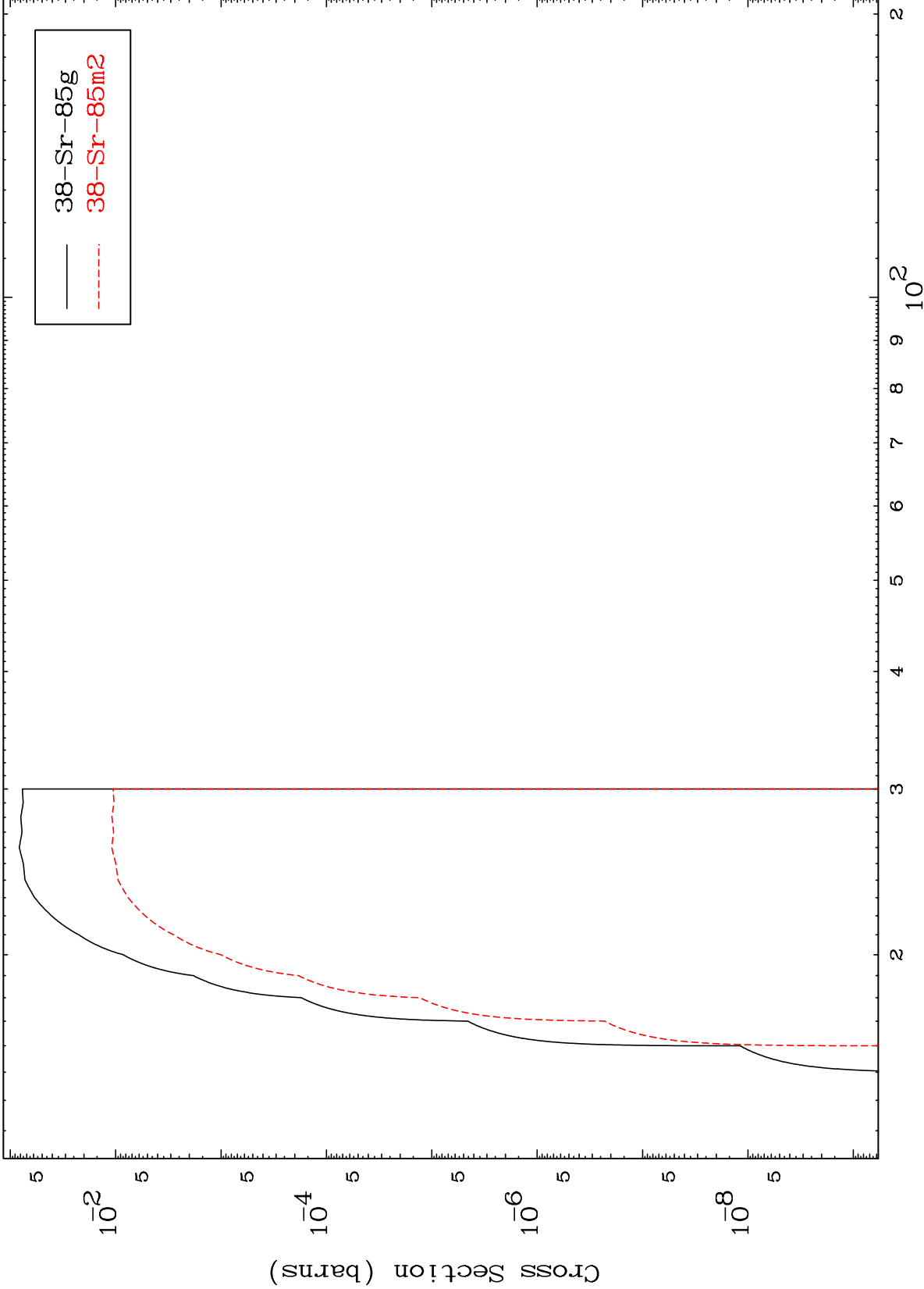
40-Zr-87

MAT 4017

(n,2n) p

40-Zr-87

Radionuclide Production Cross Section



38-Sr-85g  
38-Sr-85m2

28

Incident Energy (MeV)

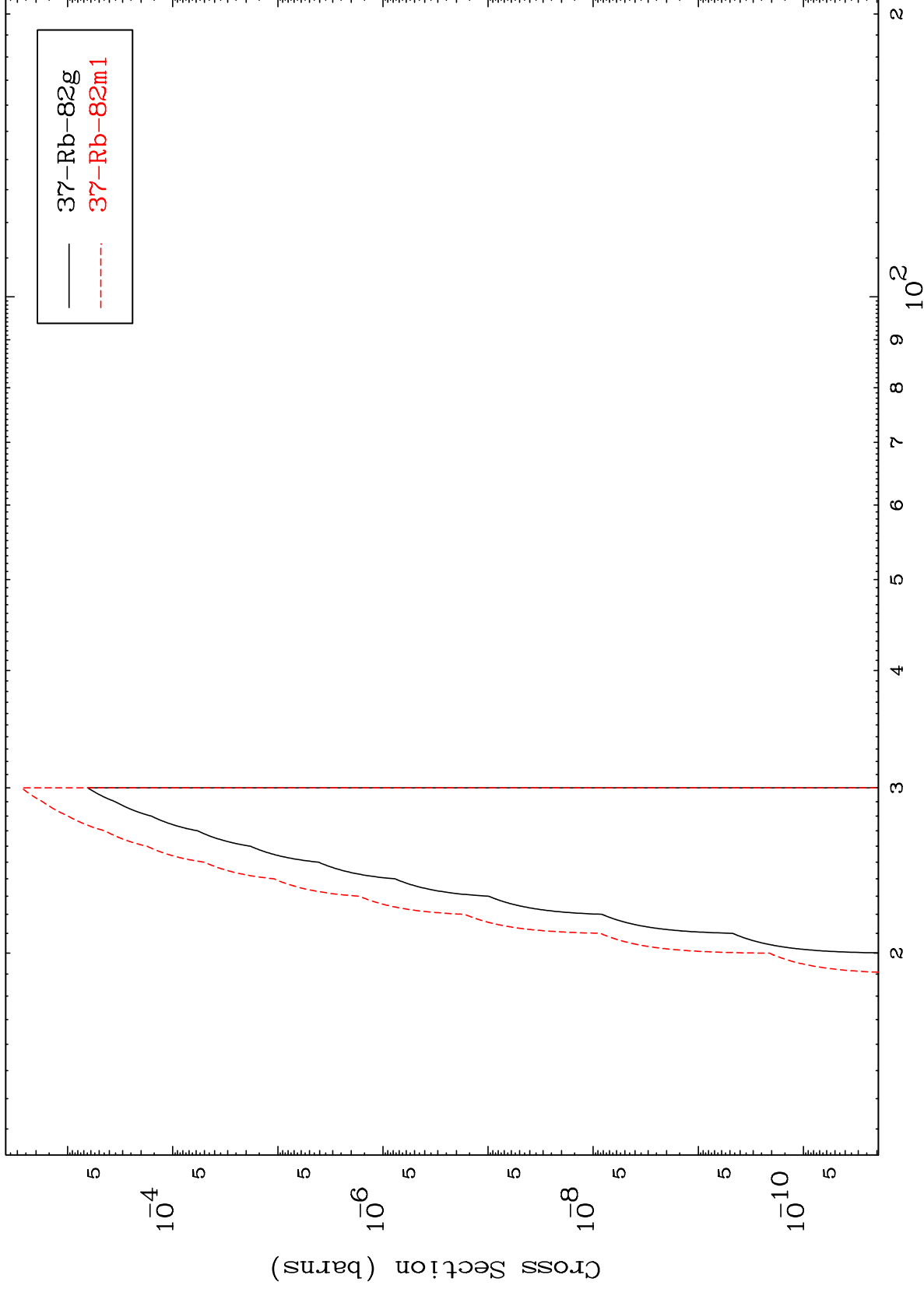
40-Zr-87

MAT 4017

(n,n') p  $\alpha$

40-Zr-87

Radionuclide Production Cross Section



29

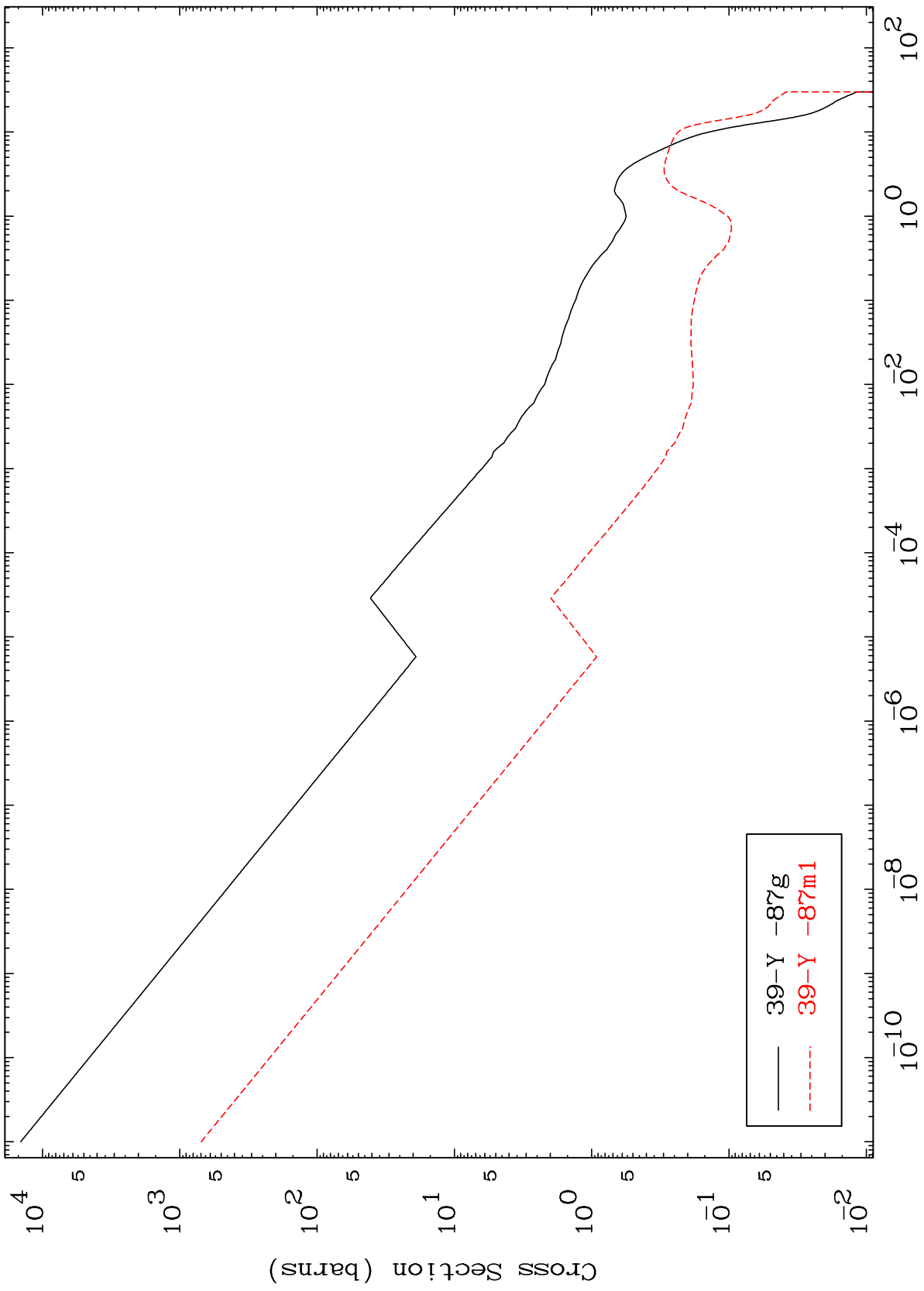
Incident Energy (MeV)

40-Zr-87

MAT 4017

40-Zr-87

(n,p)  
Radionuclide Production Cross Section



30

40-Zr-87

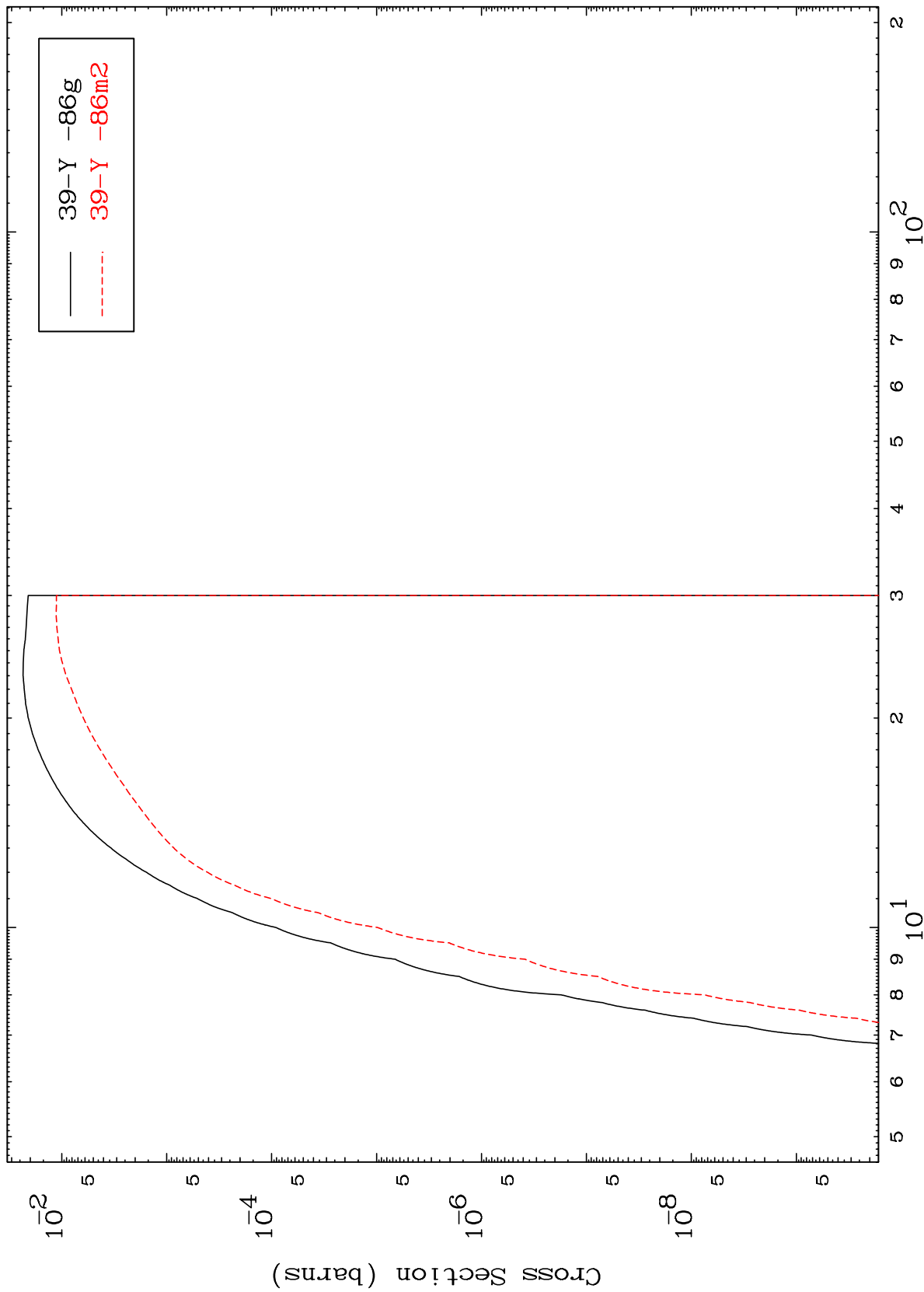
Incident Energy (MeV)

MAT 4017

(n,d)

40-Zr-87

Radionuclide Production Cross Section



31

Incident Energy (MeV)

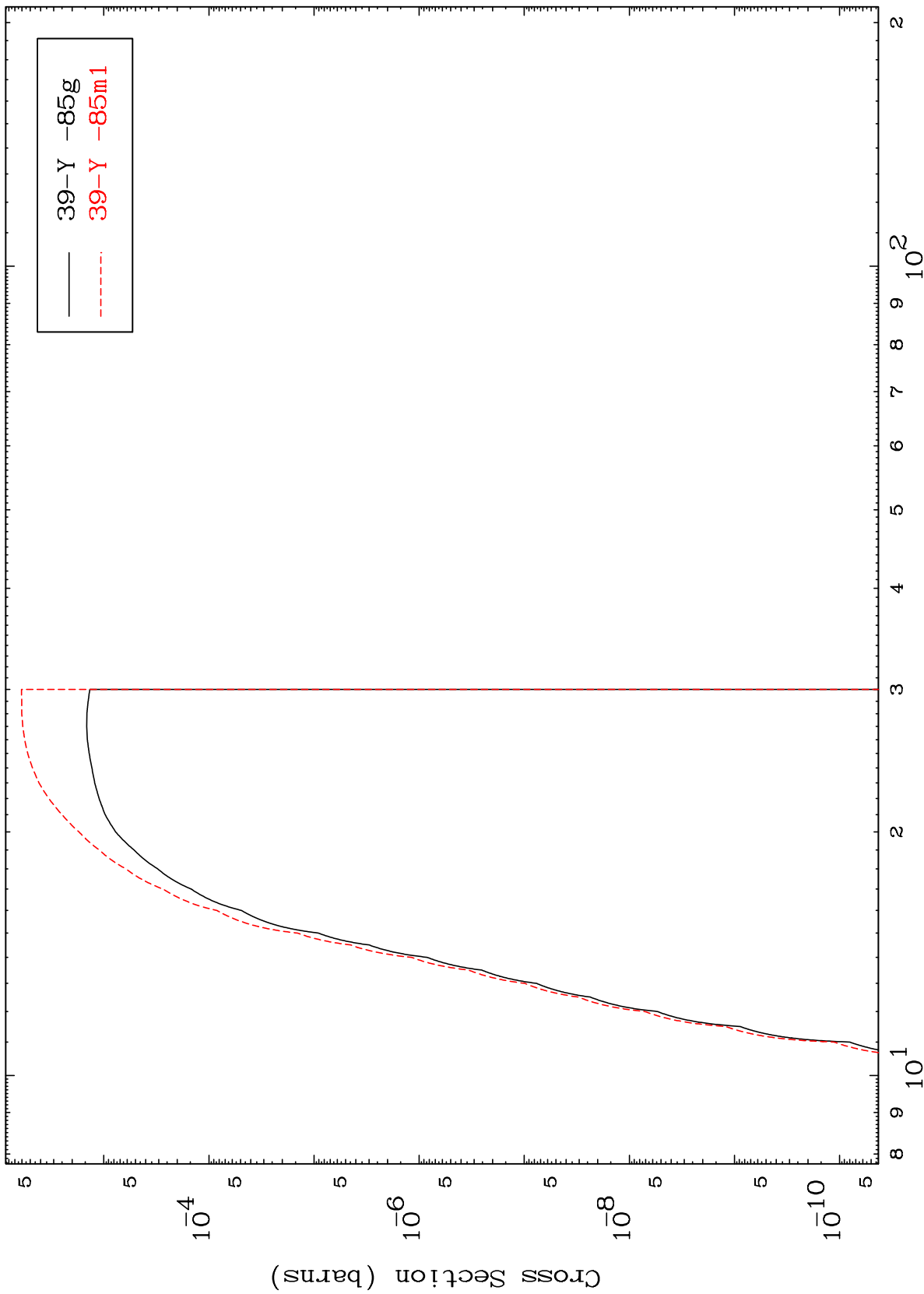
40-Zr-87



MAT 4017

40-Zr-87

(n,t)  
Radionuclide Production Cross Section



— 39-Y -85g  
- - - 39-Y -85m1

32

Incident Energy (MeV)

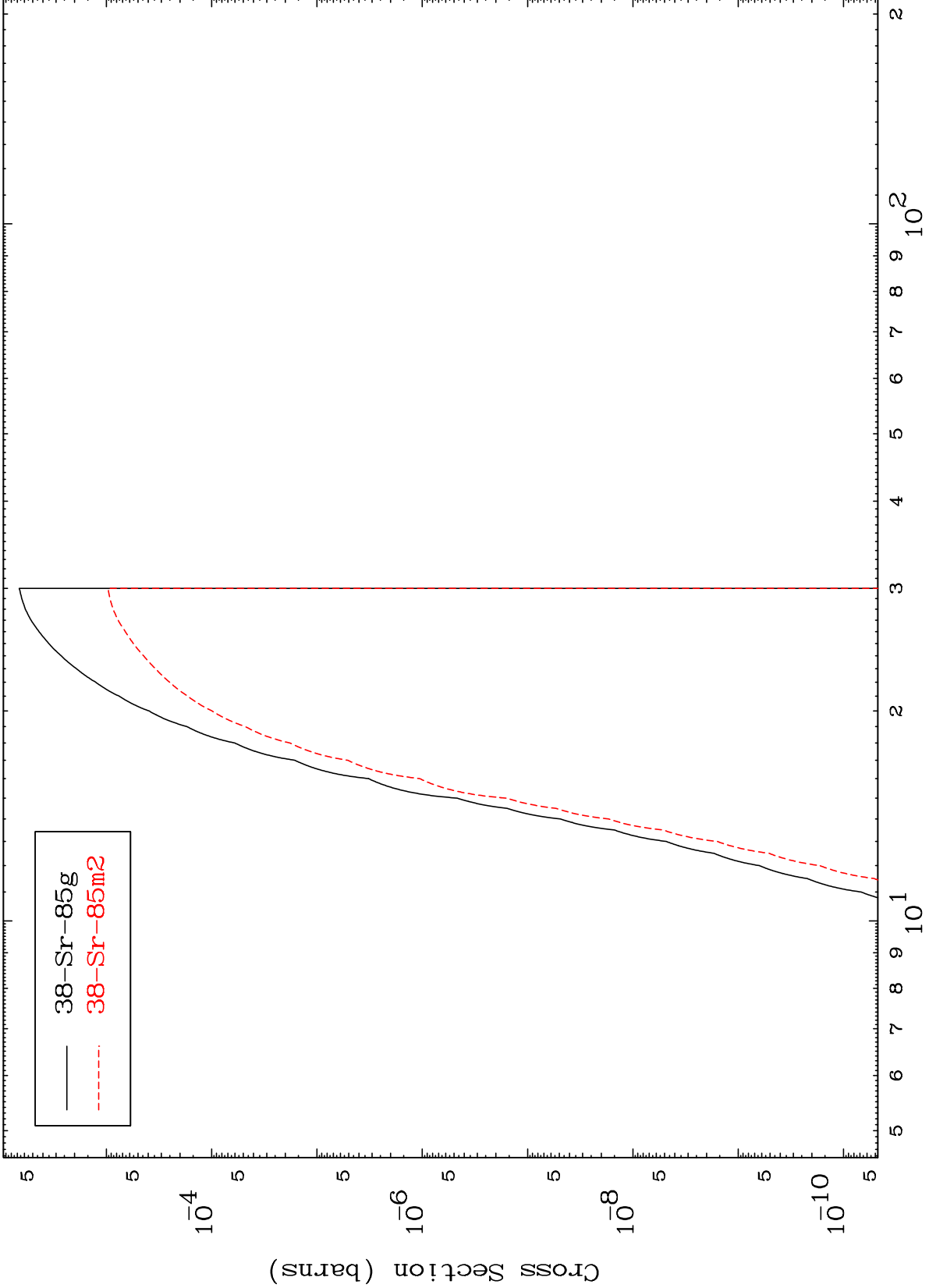
40-Zr-87

MAT 4017

(n,He-3)

40-Zr-87

Radionuclide Production Cross Section



— 38-Sr-85g  
- - - 38-Sr-85m2

Incident Energy (MeV)

40-Zr-87

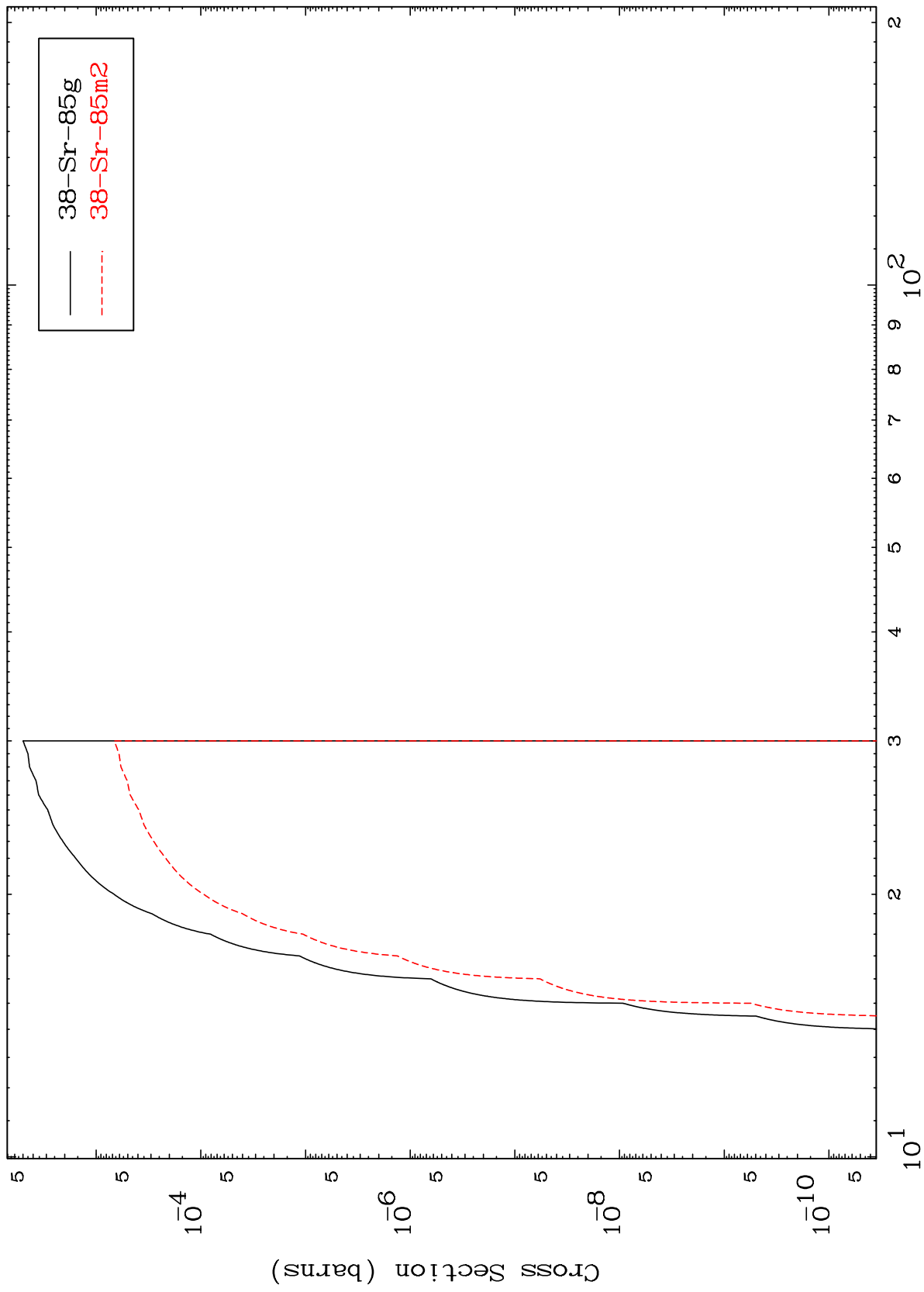
33

MAT 4017

(n,p) d

40-Zr-87

Radionuclide Production Cross Section



Incident Energy (MeV)

40-Zr-87

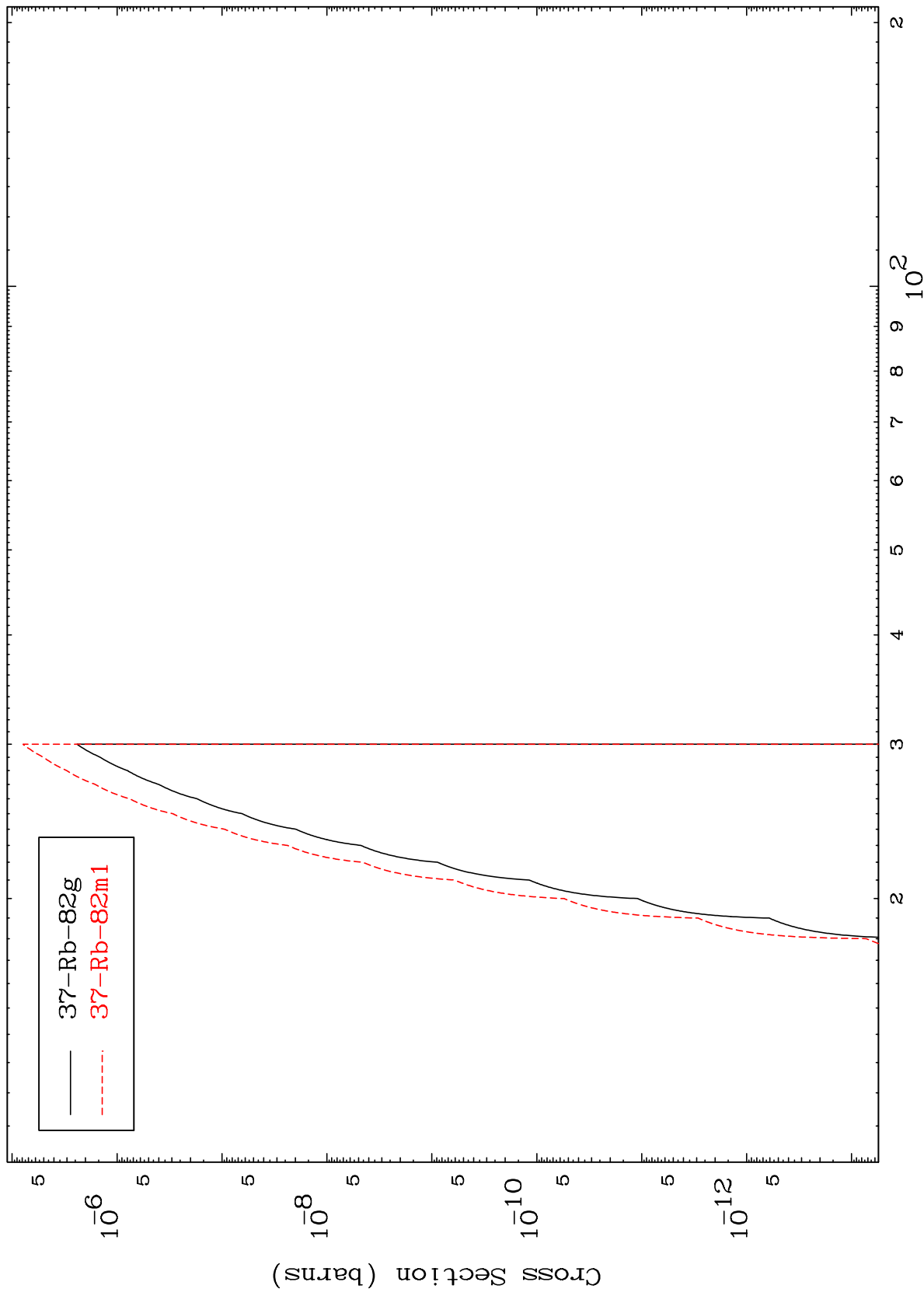
34

MAT 4017

40-Zr-87

(n,d)  $\alpha$

Radionuclide Production Cross Section



35

40-Zr-87