

Program EVALPLOT  
(Version 2017-1)

by

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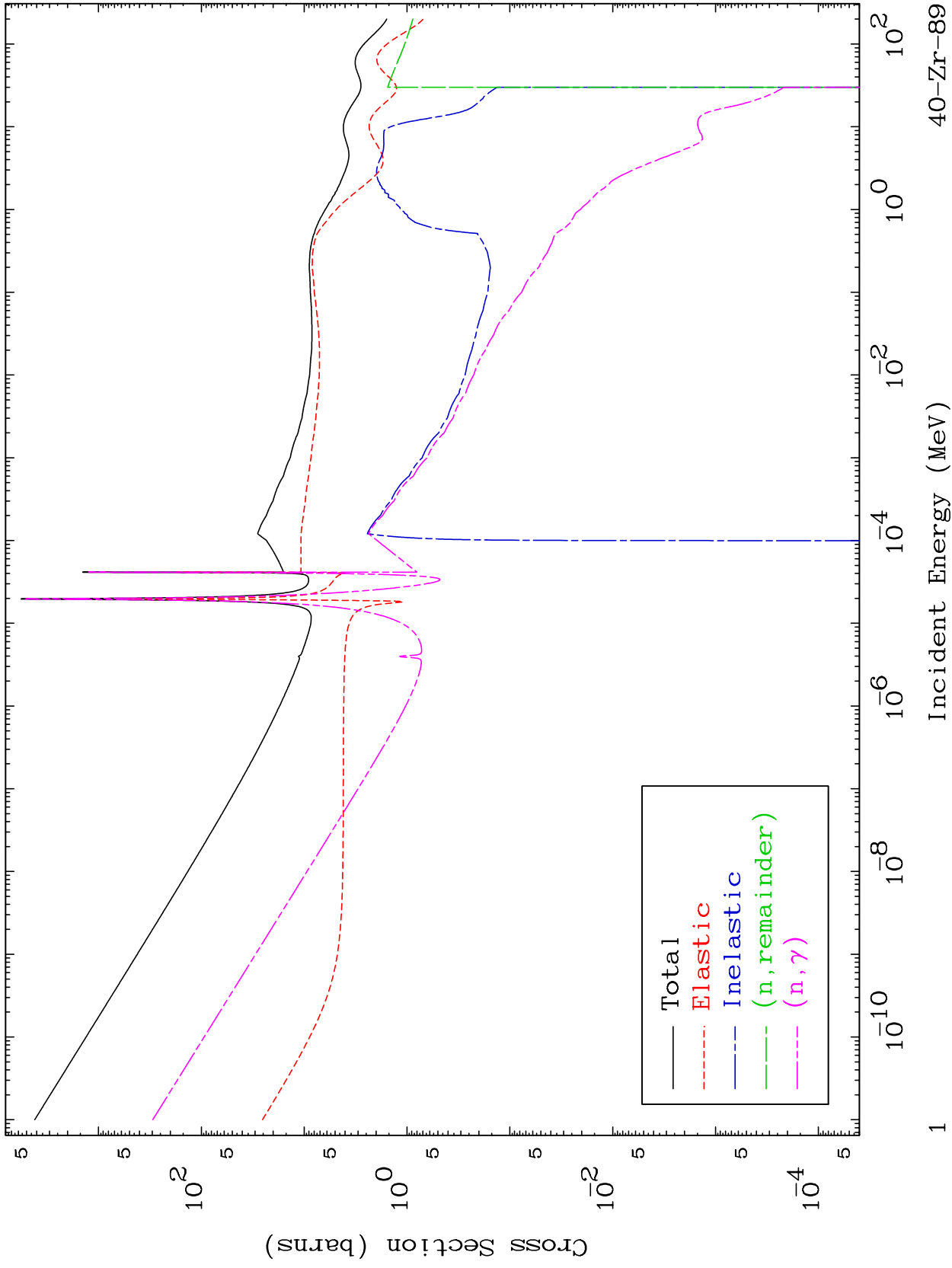
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4023

Major  
293 Kelvin Cross Sections

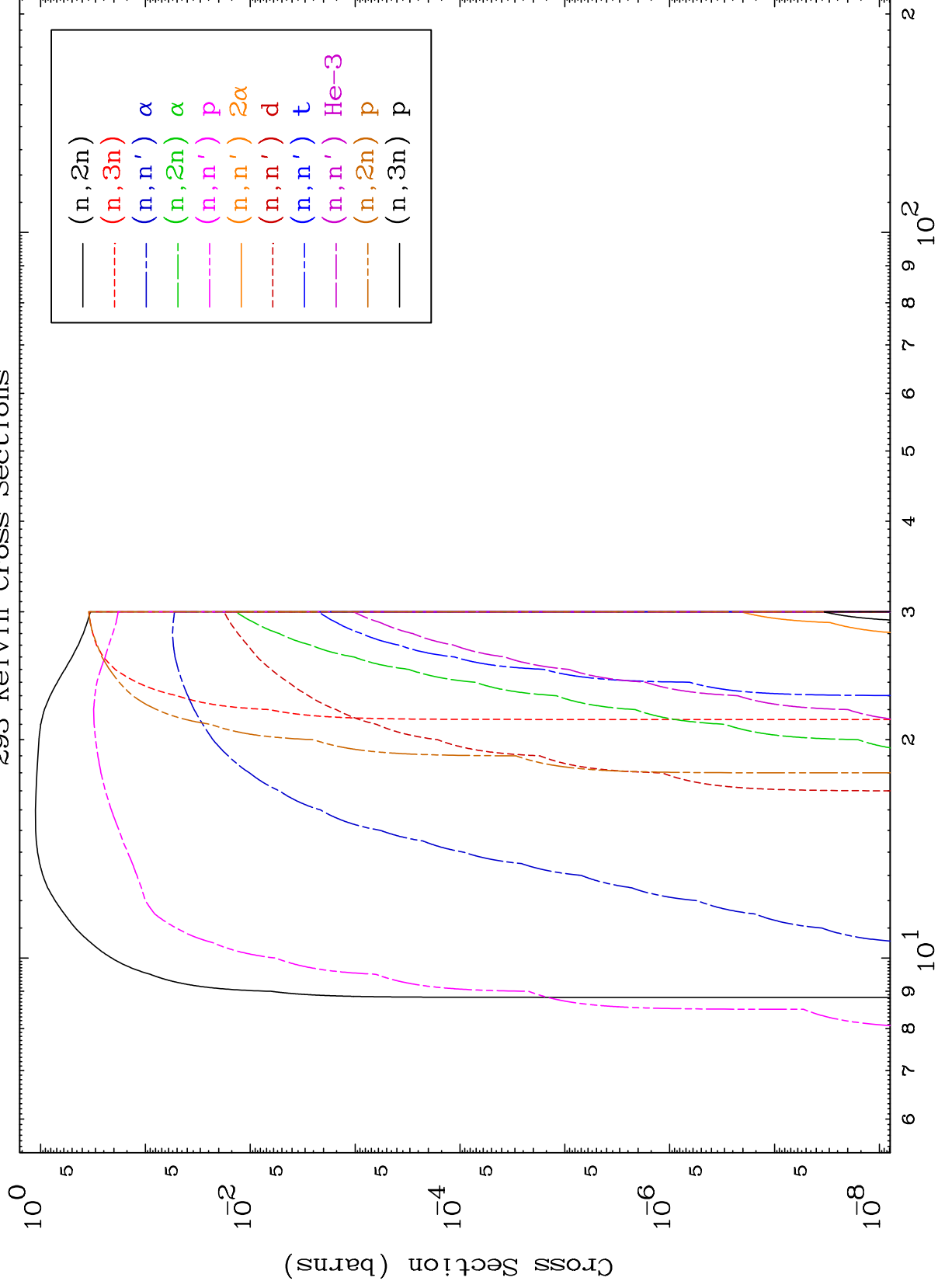
40-Zr-89



MAT 4023

Neutron Production  
293 Kelvin Cross Sections

40-Zr-89



Incident Energy (MeV)

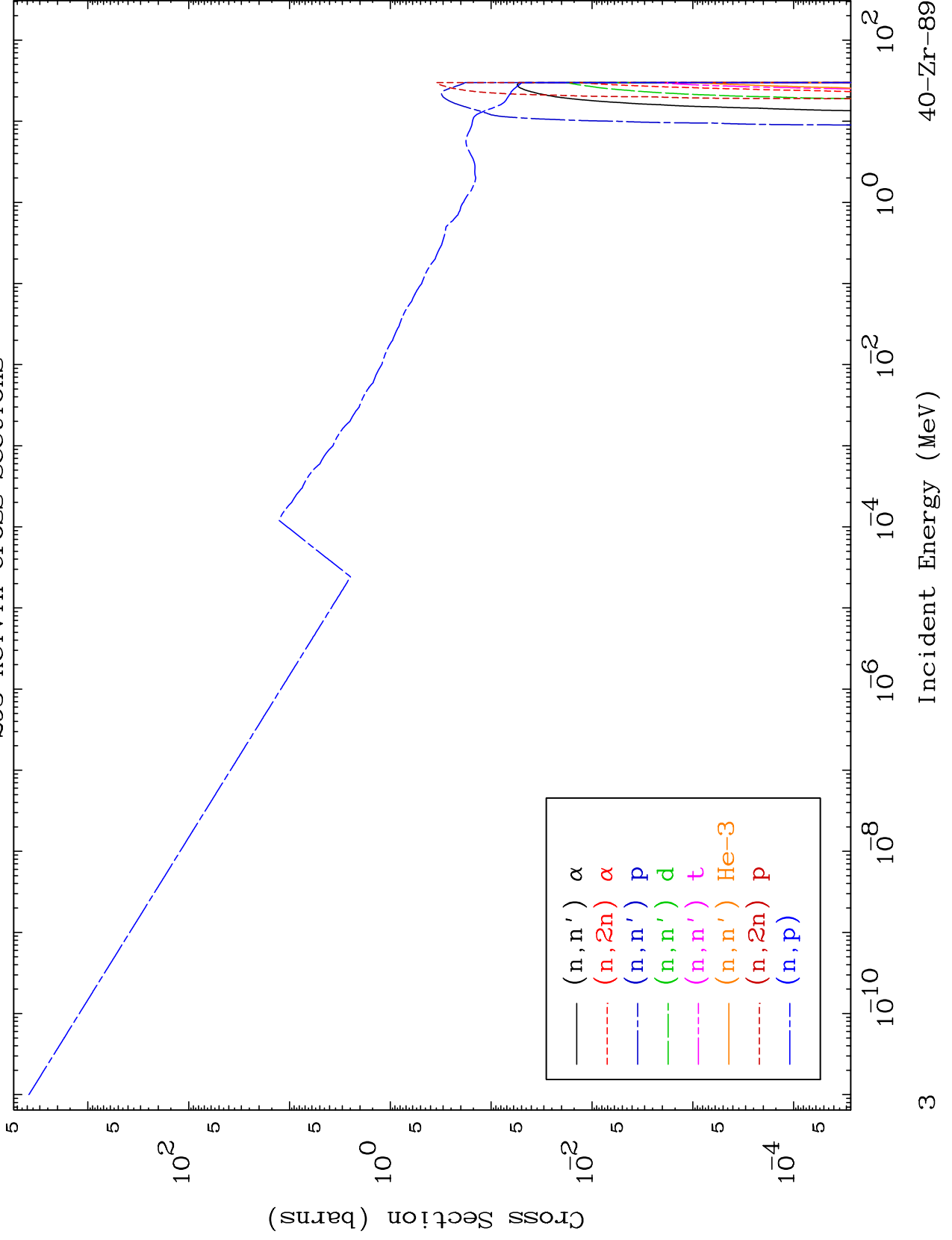
40-Zr-89

2

MAT 4023

Charged Particle  
293 Kelvin Cross Sections

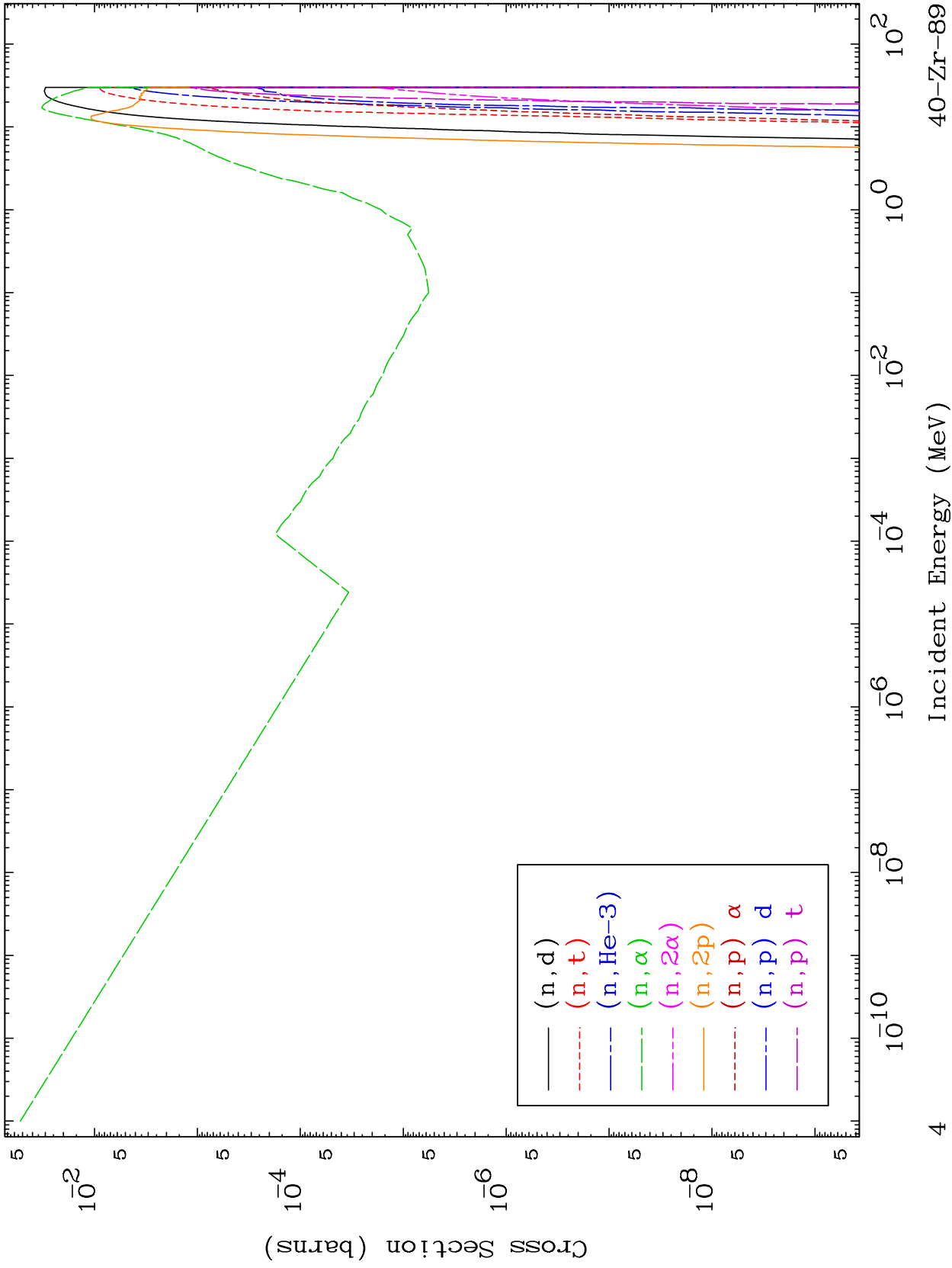
40-Zr-89



MAT 4023

Charged Particle  
293 Kelvin Cross Sections

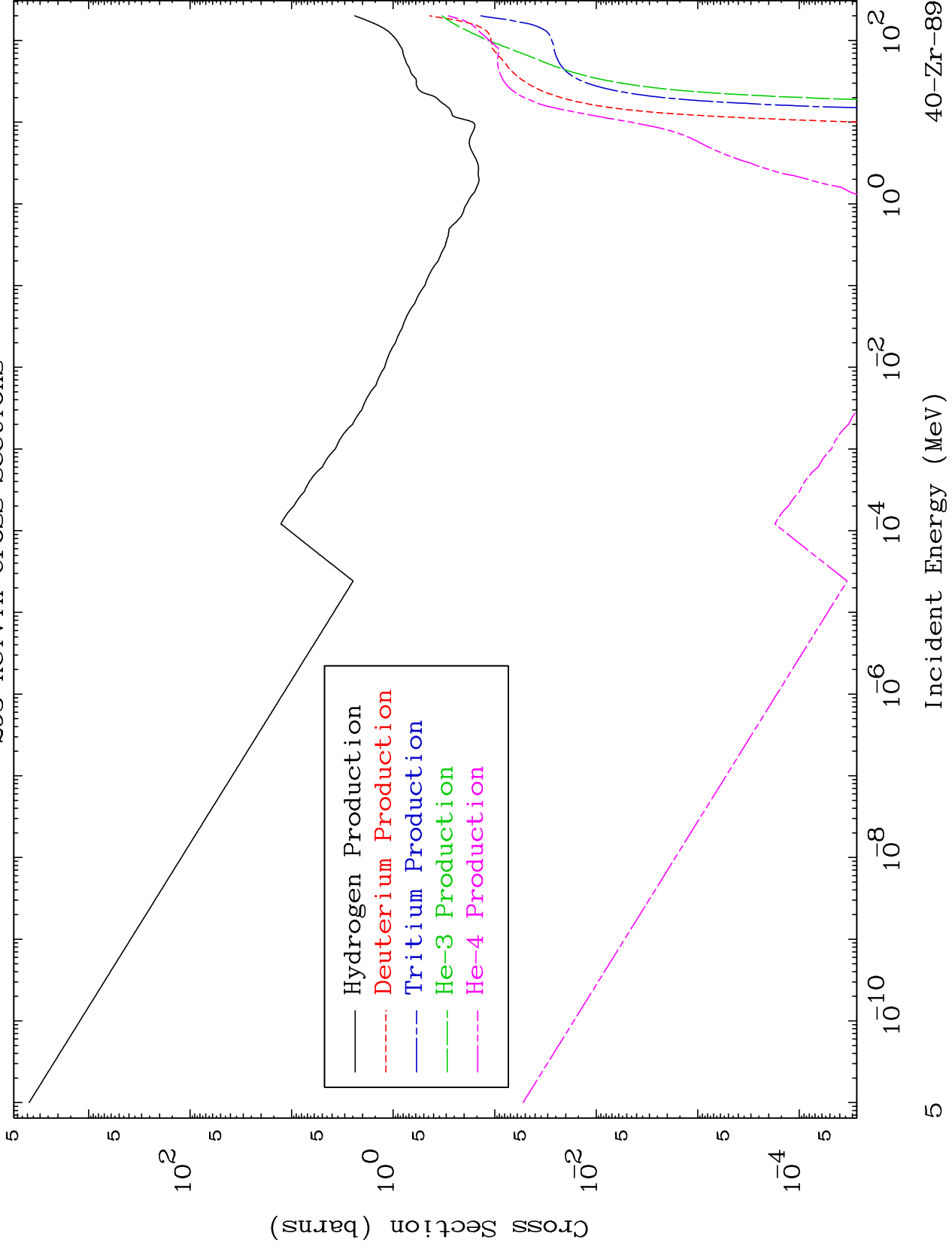
40-Zr-89



MAT 4023

Particle Production  
293 Kelvin Cross Sections

40-Zr-89

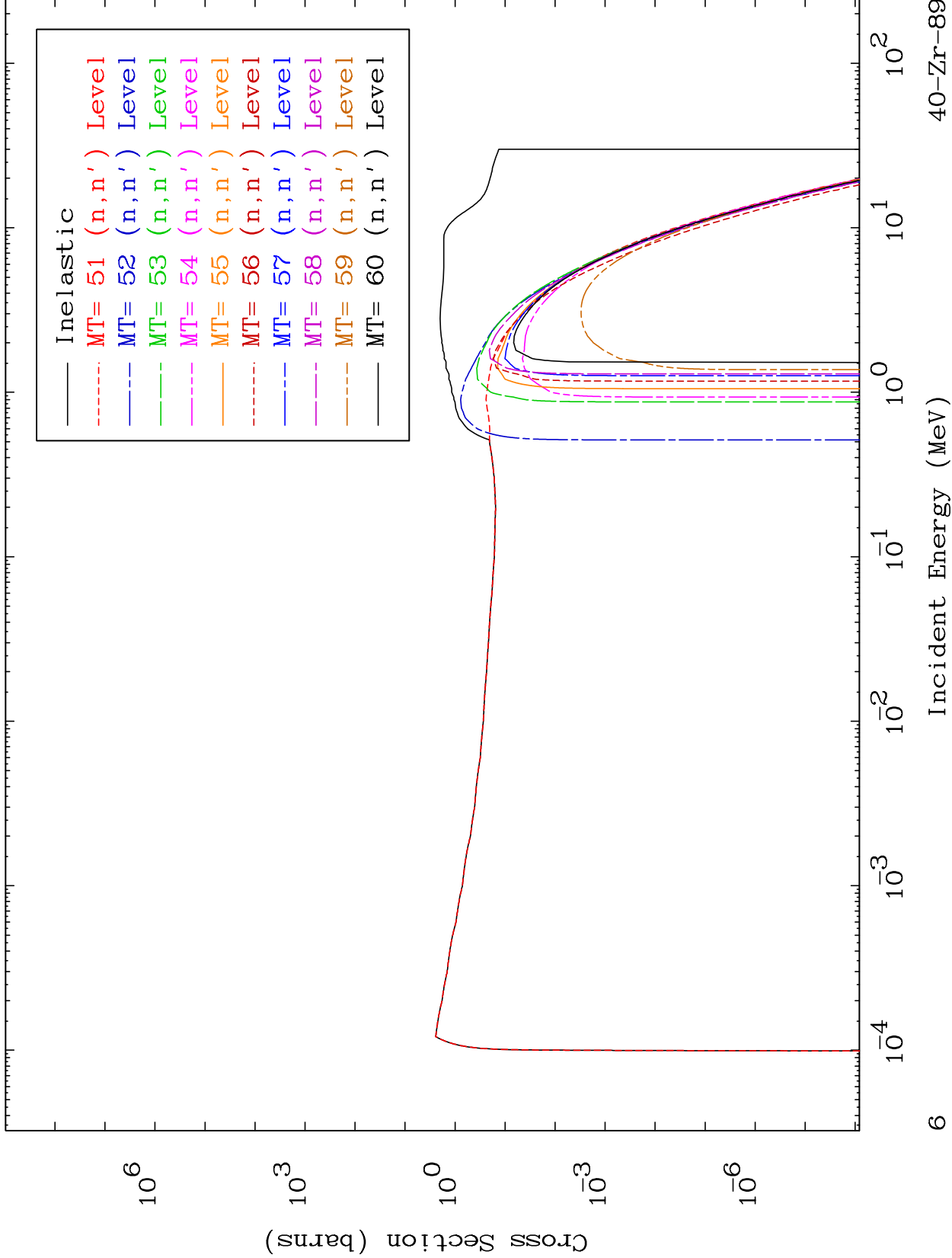


MAT 4023

(n,n') Level

40-Zr-89

293 Kelvin Cross Sections

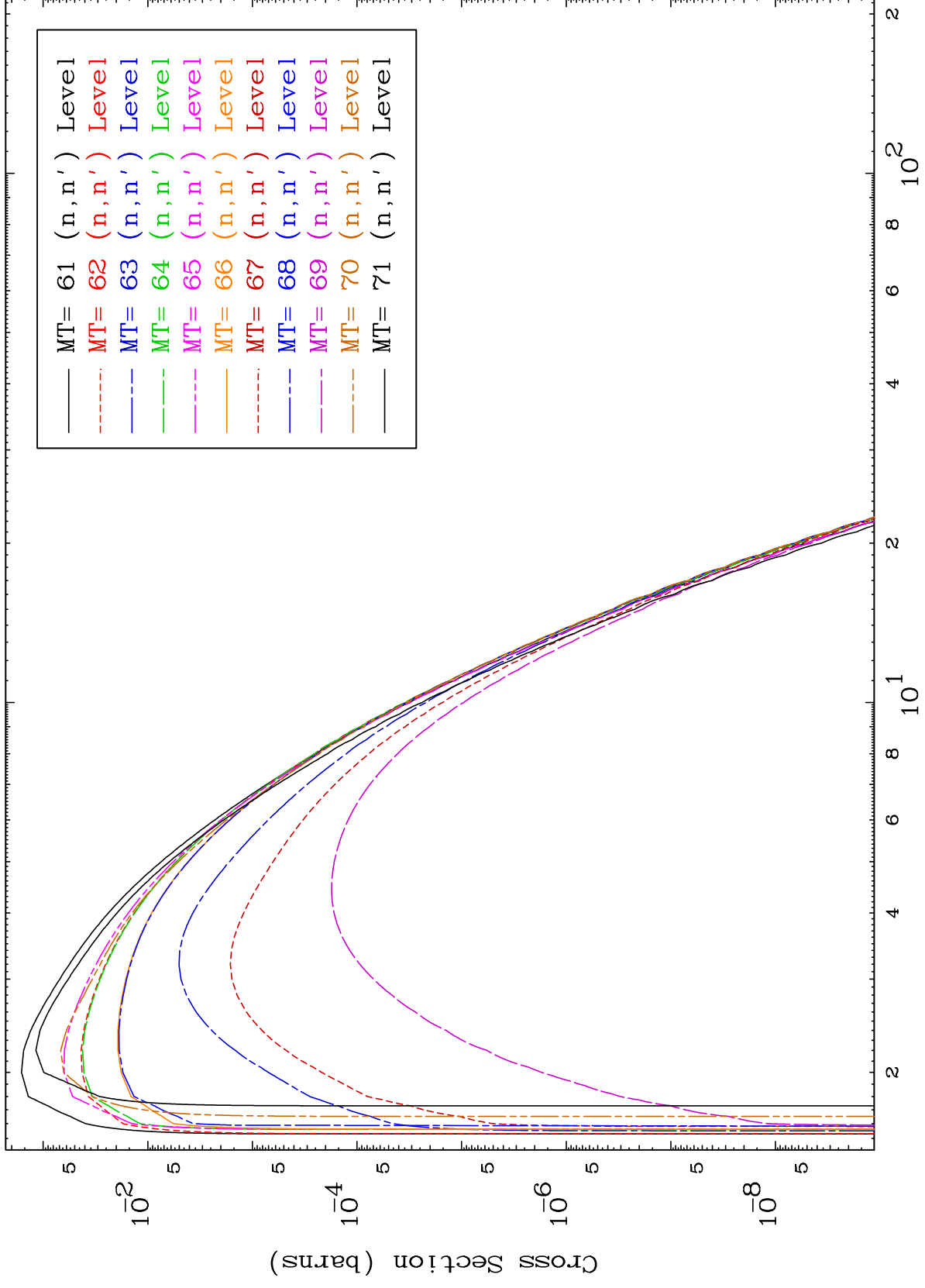


MAT 4023

(n,n') Level

40-Zr-89

293 Kelvin Cross Sections



7

Incident Energy (MeV)

40-Zr-89

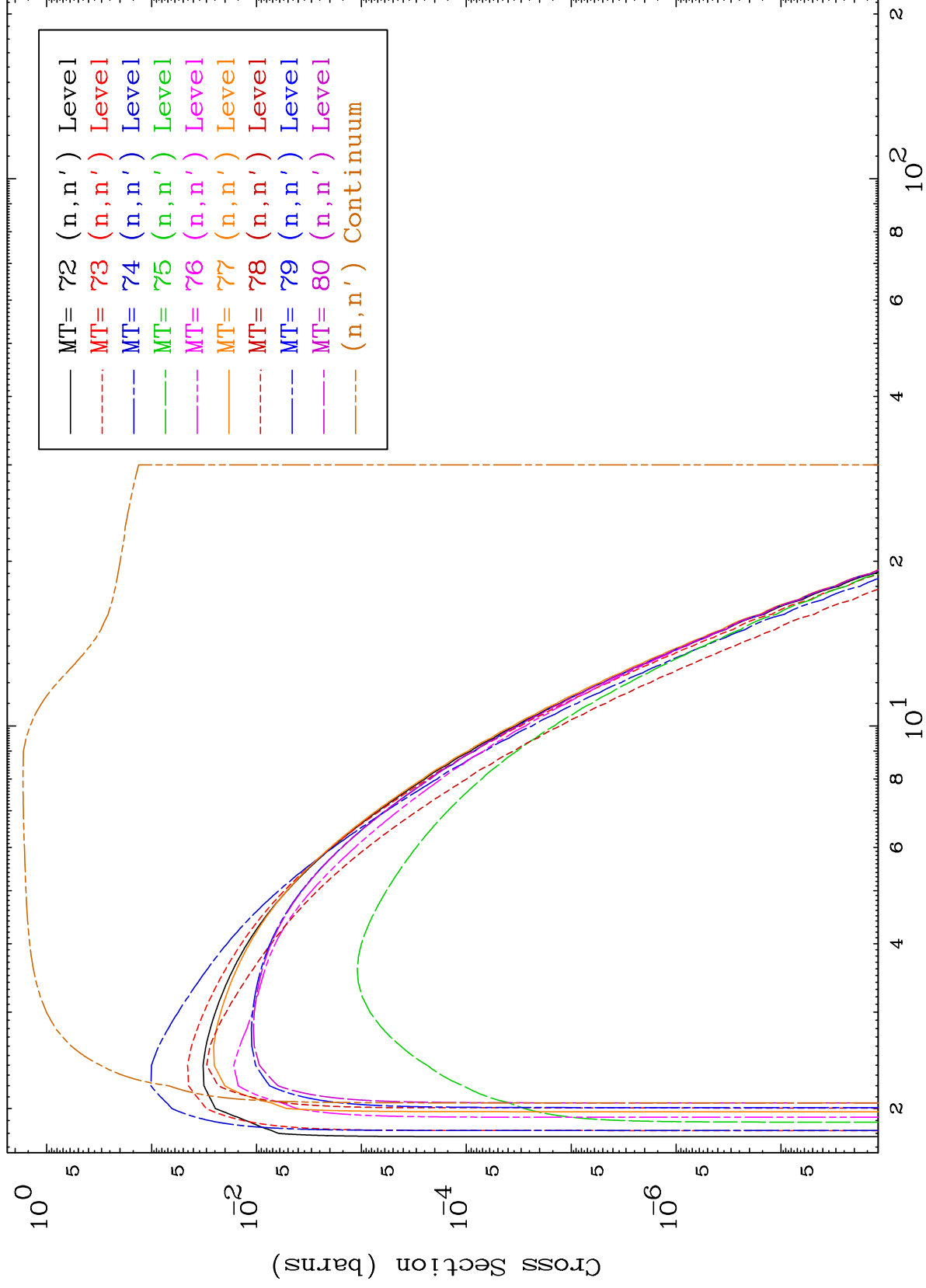


MAT 4023

(n,n') Level

40-Zr-89

293 Kelvin Cross Sections



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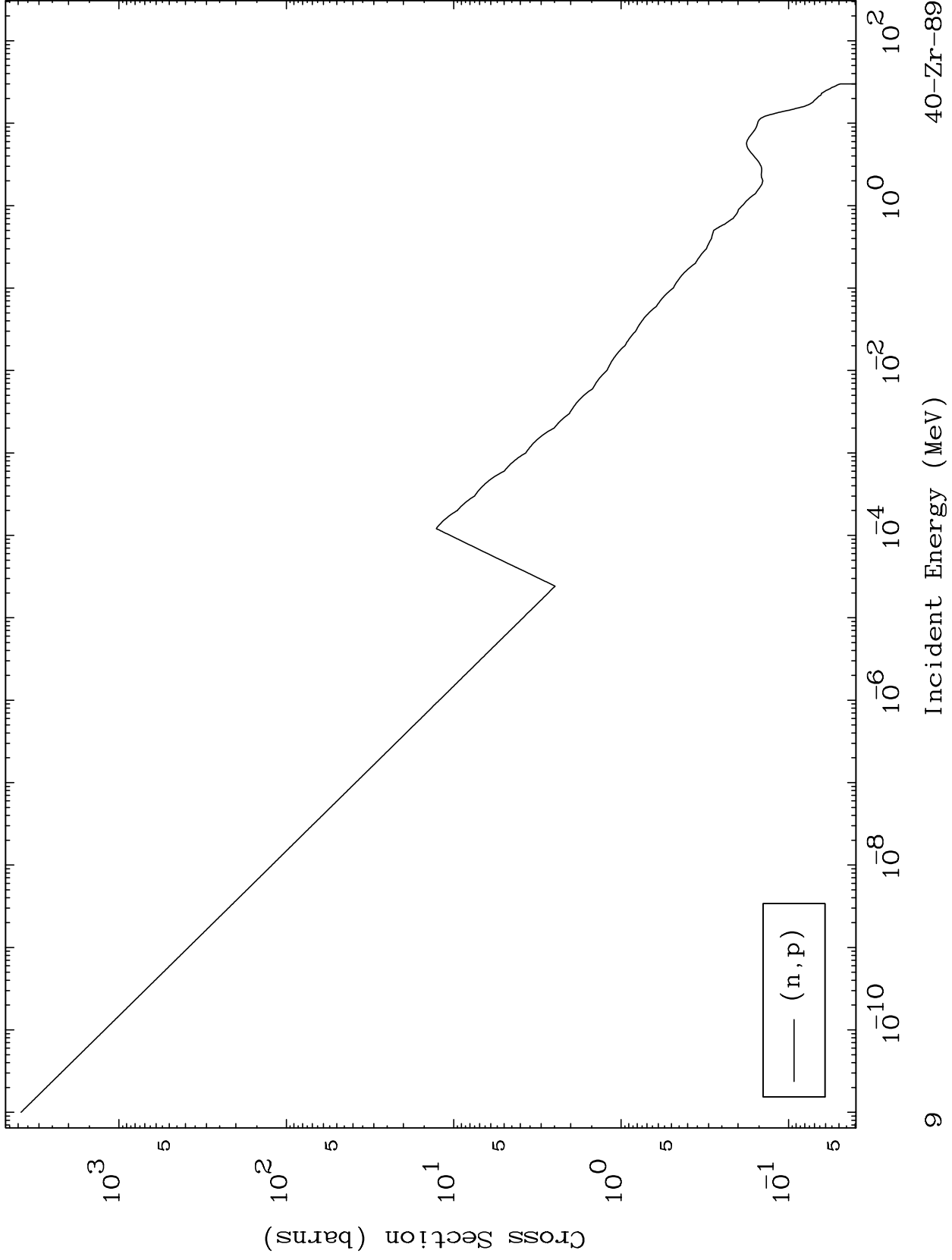
Incident Energy (MeV)

40-Zr-89

MAT 4023

(n,p) Levels  
293 Kelvin Cross Sections

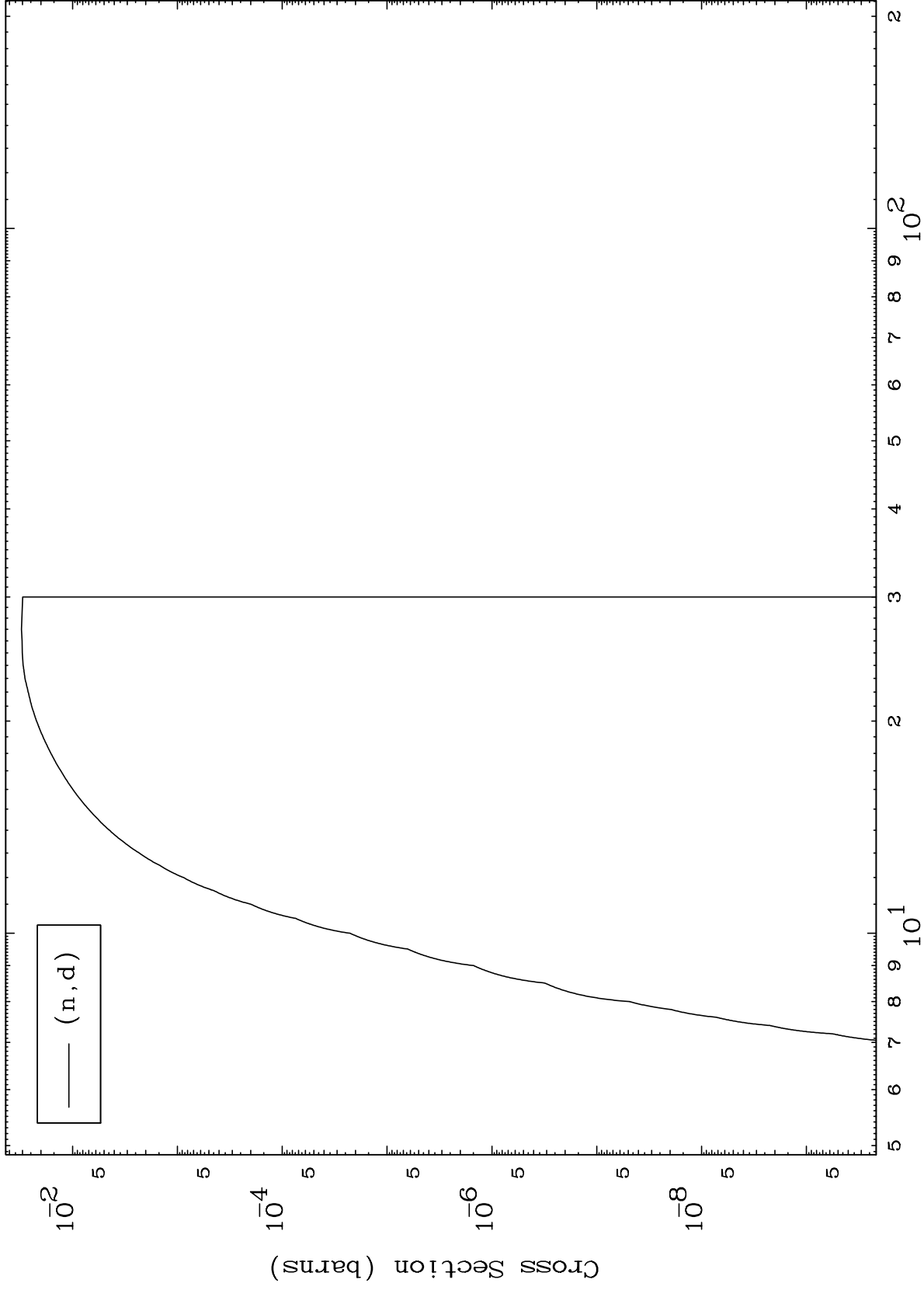
40-Zr-89



MAT 4023

(n,d) Levels  
293 Kelvin Cross Sections

40-Zr-89



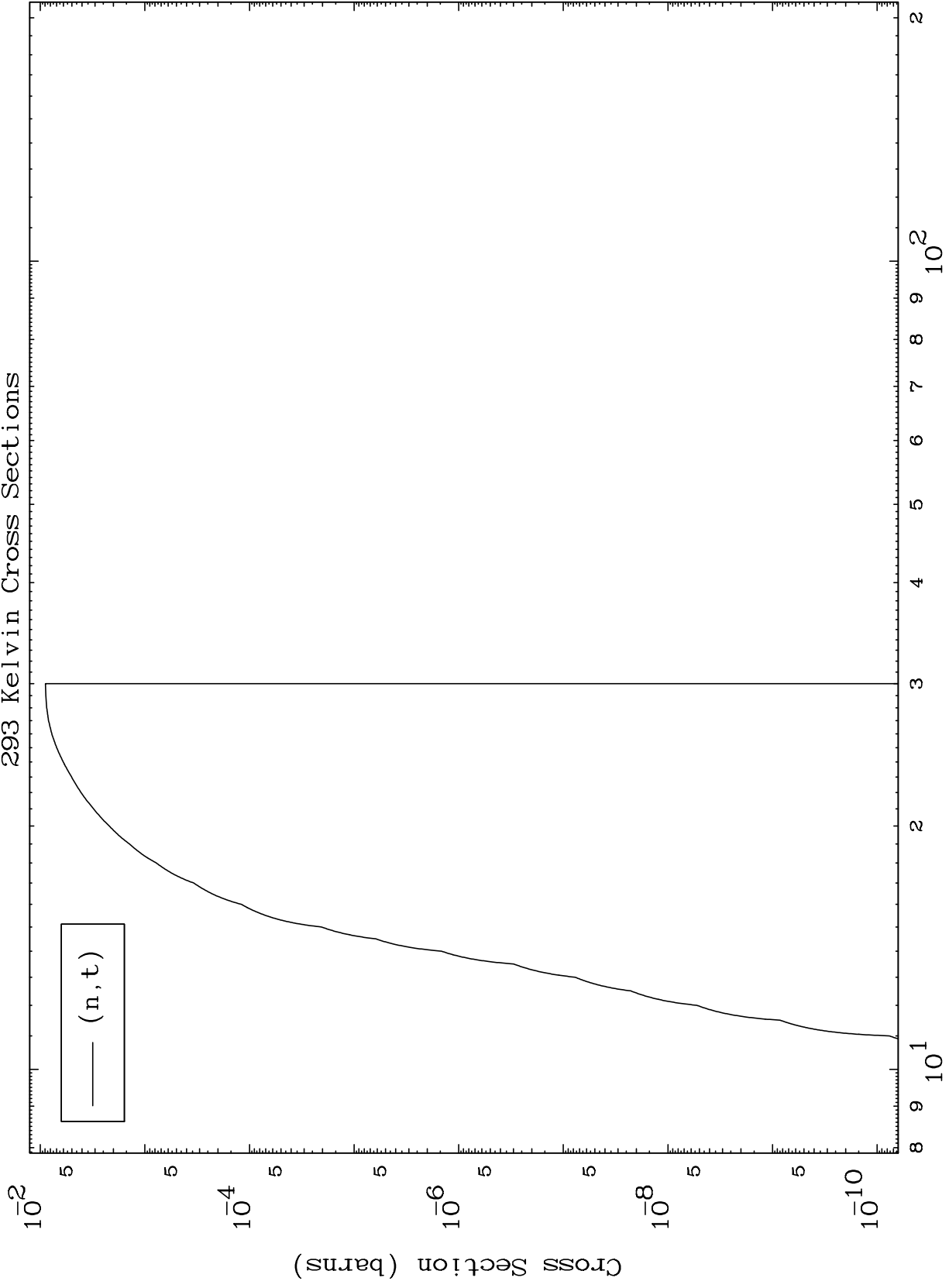
Incident Energy (MeV)

40-Zr-89

MAT 4023

(n,t) Levels  
293 Kelvin Cross Sections

40-Zr-89



40-Zr-89

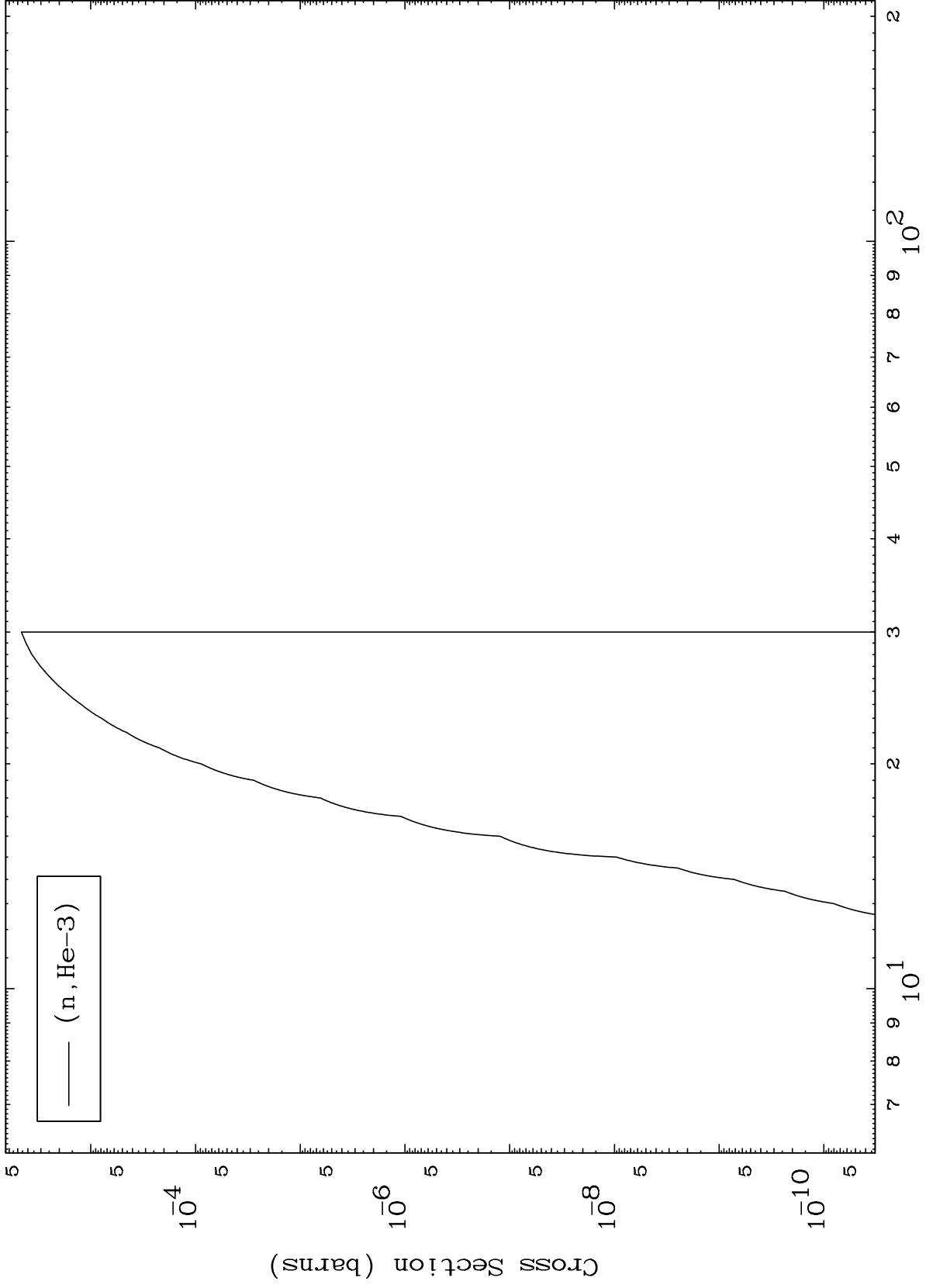
Incident Energy (MeV)

11

MAT 4023

(n,He3) Levels  
293 Kelvin Cross Sections

40-Zr-89



12

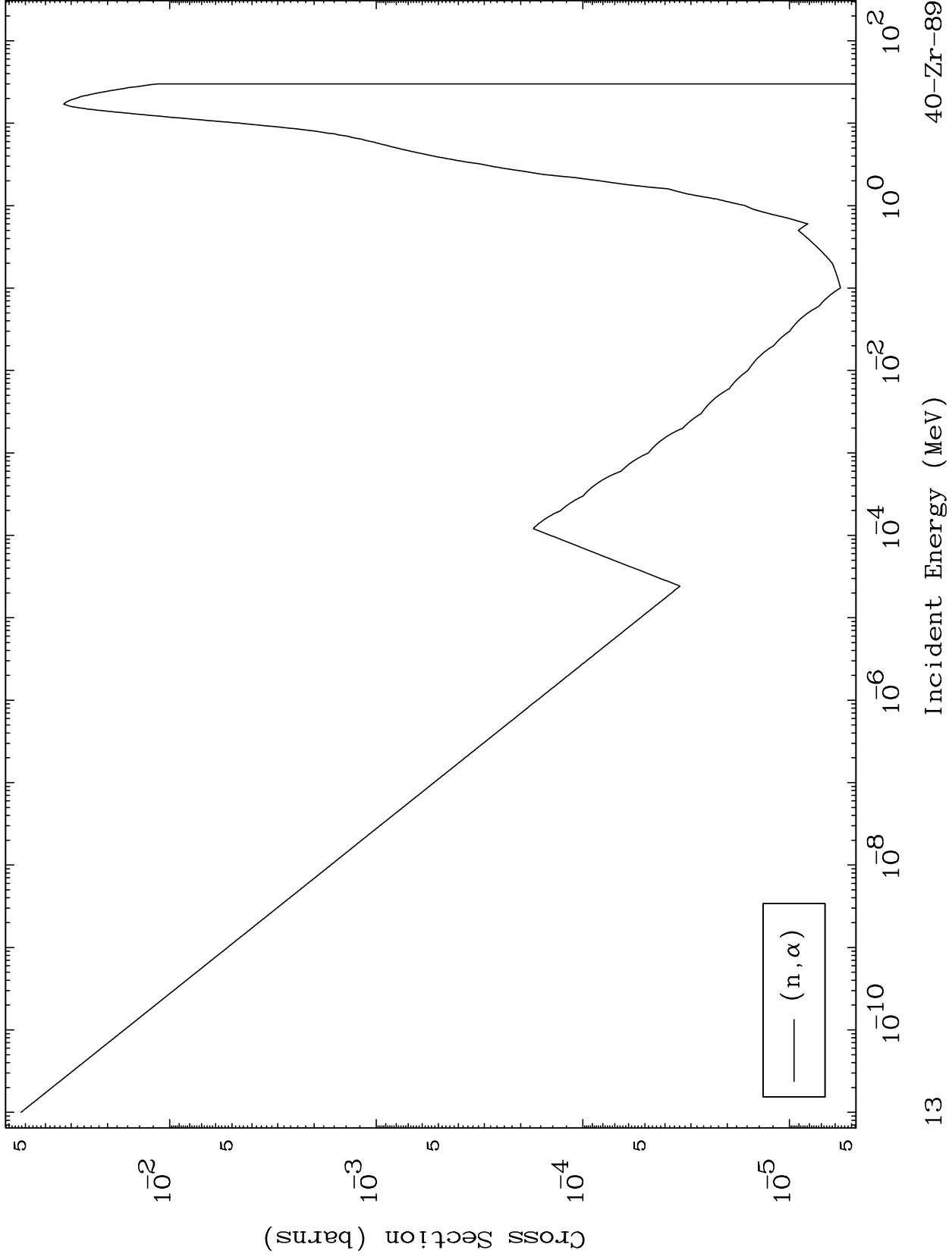
Incident Energy (MeV)

40-Zr-89

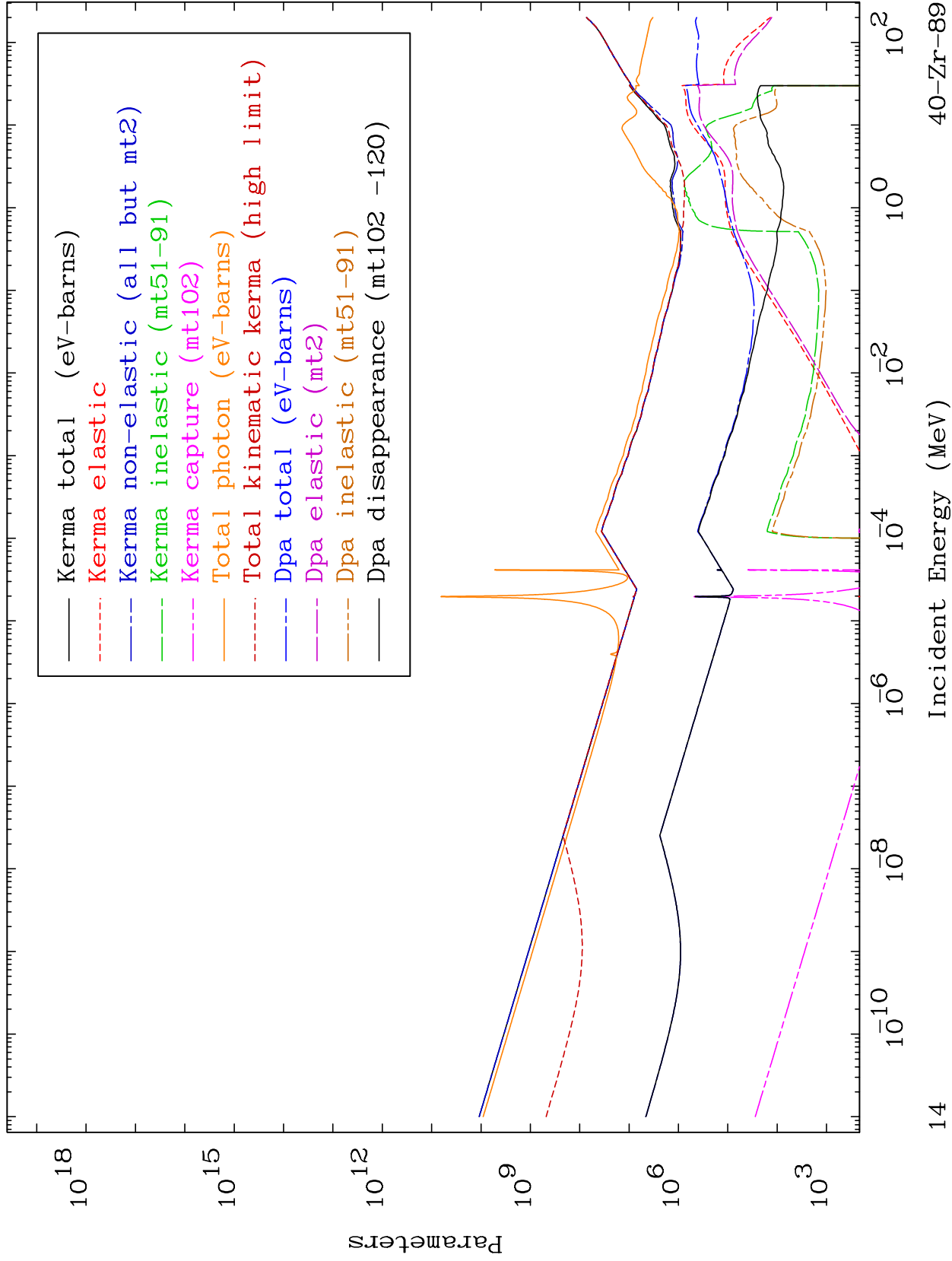
MAT 4023

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

40-Zr-89



13



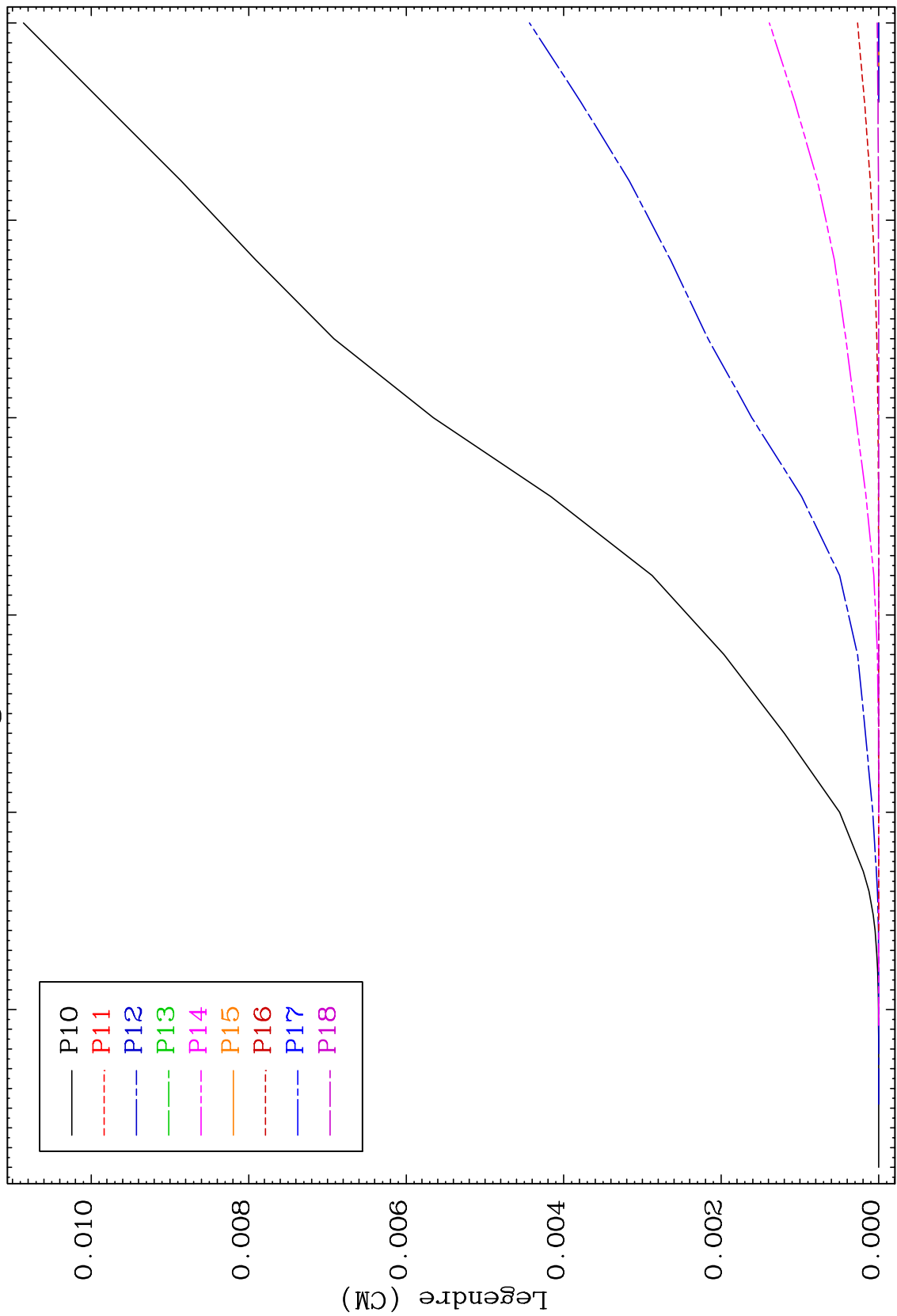




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Elastic Legendre Coefficients

40-Zr-89



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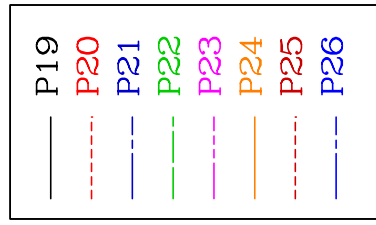
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Incident Energy (MeV)

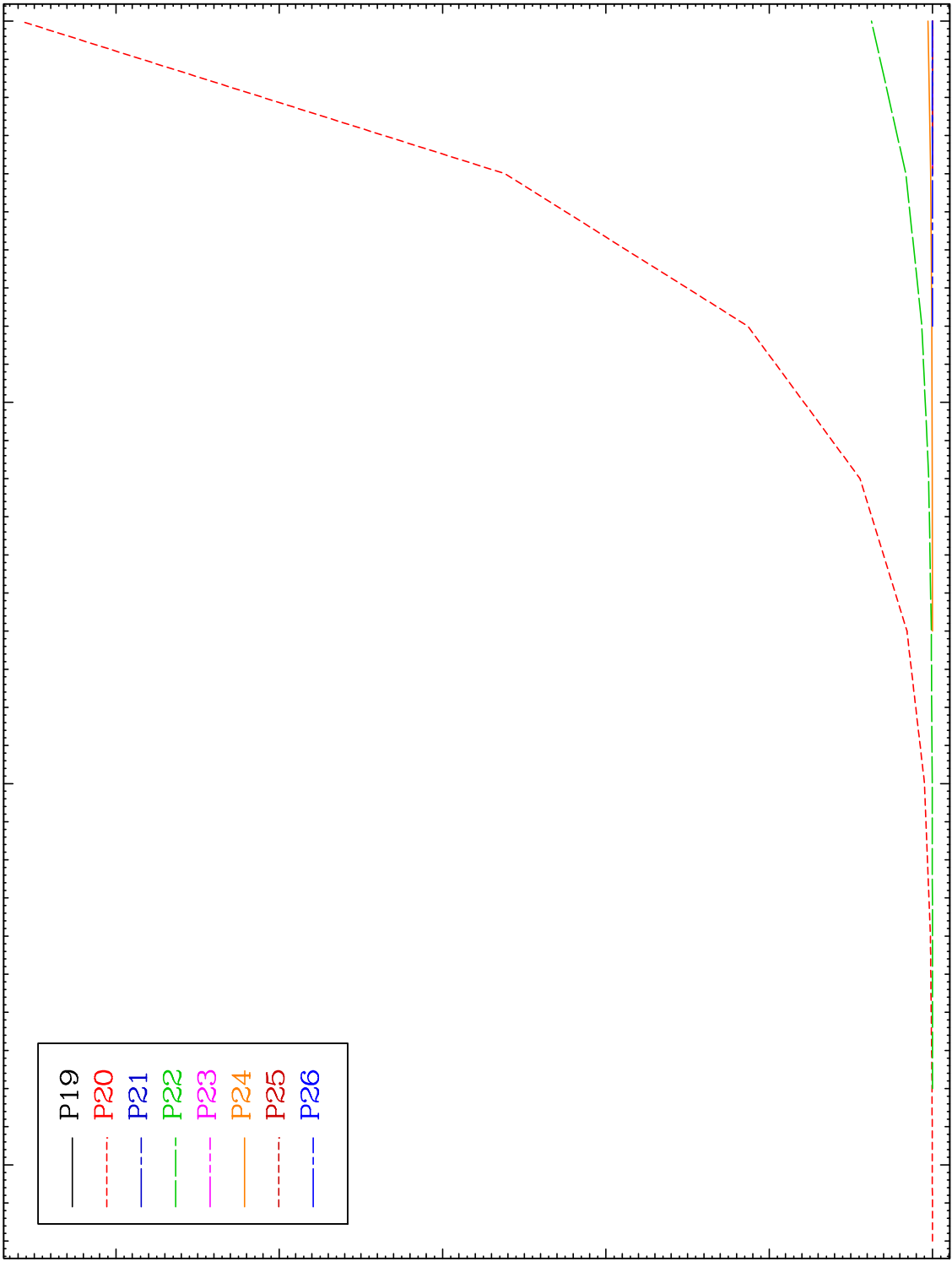
MAT 4023

Elastic Legendre Coefficients

40-Zr-89



$\times 10^{-6}$   
1.0  
0.8  
0.6  
0.4  
0.2  
0.0

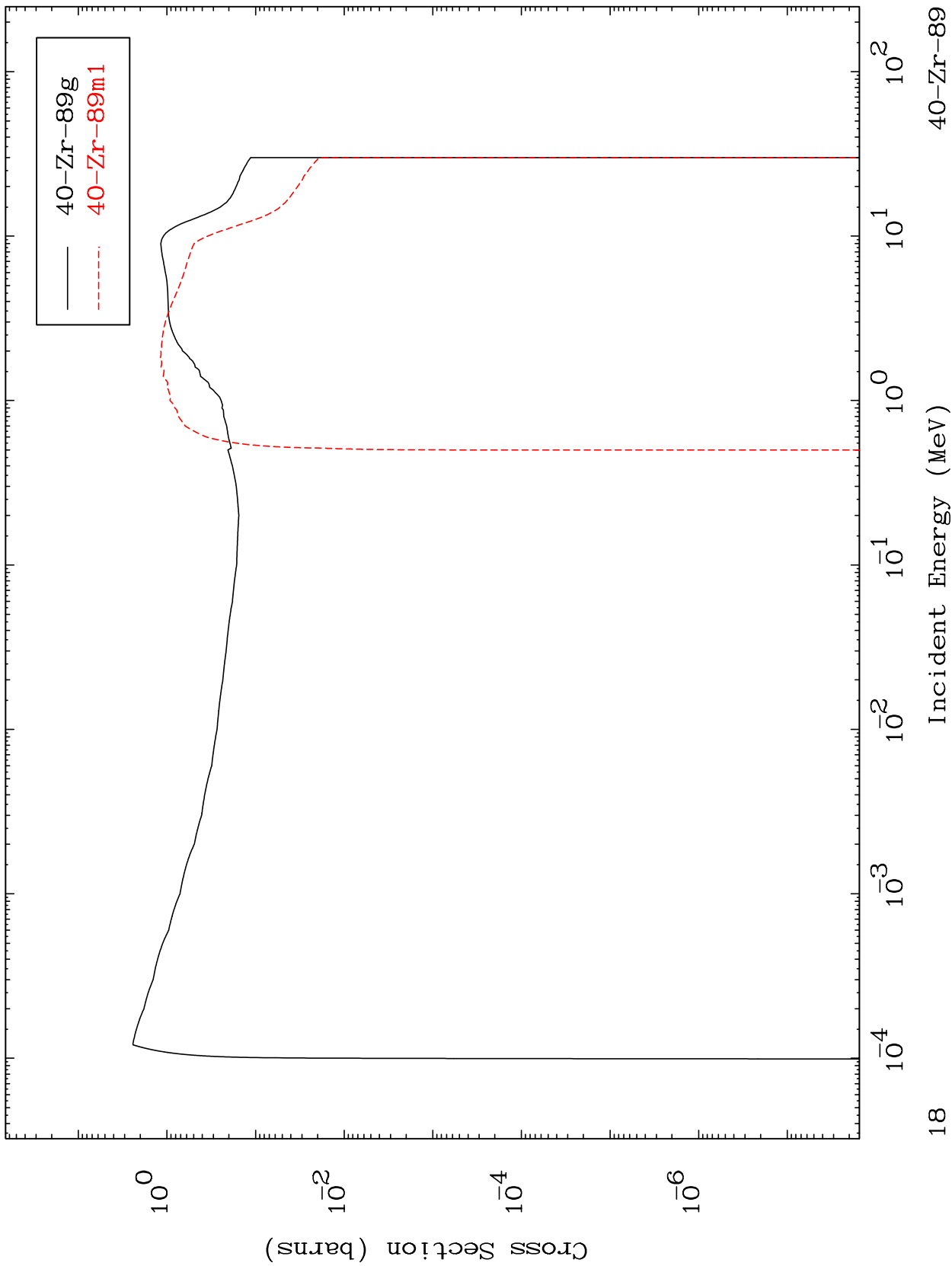


15 20 25 30  
17 40-Zr-89  
Incident Energy (MeV)

MAT 4023

40-Zr-89

Inelastic  
Radionuclide Production Cross Section

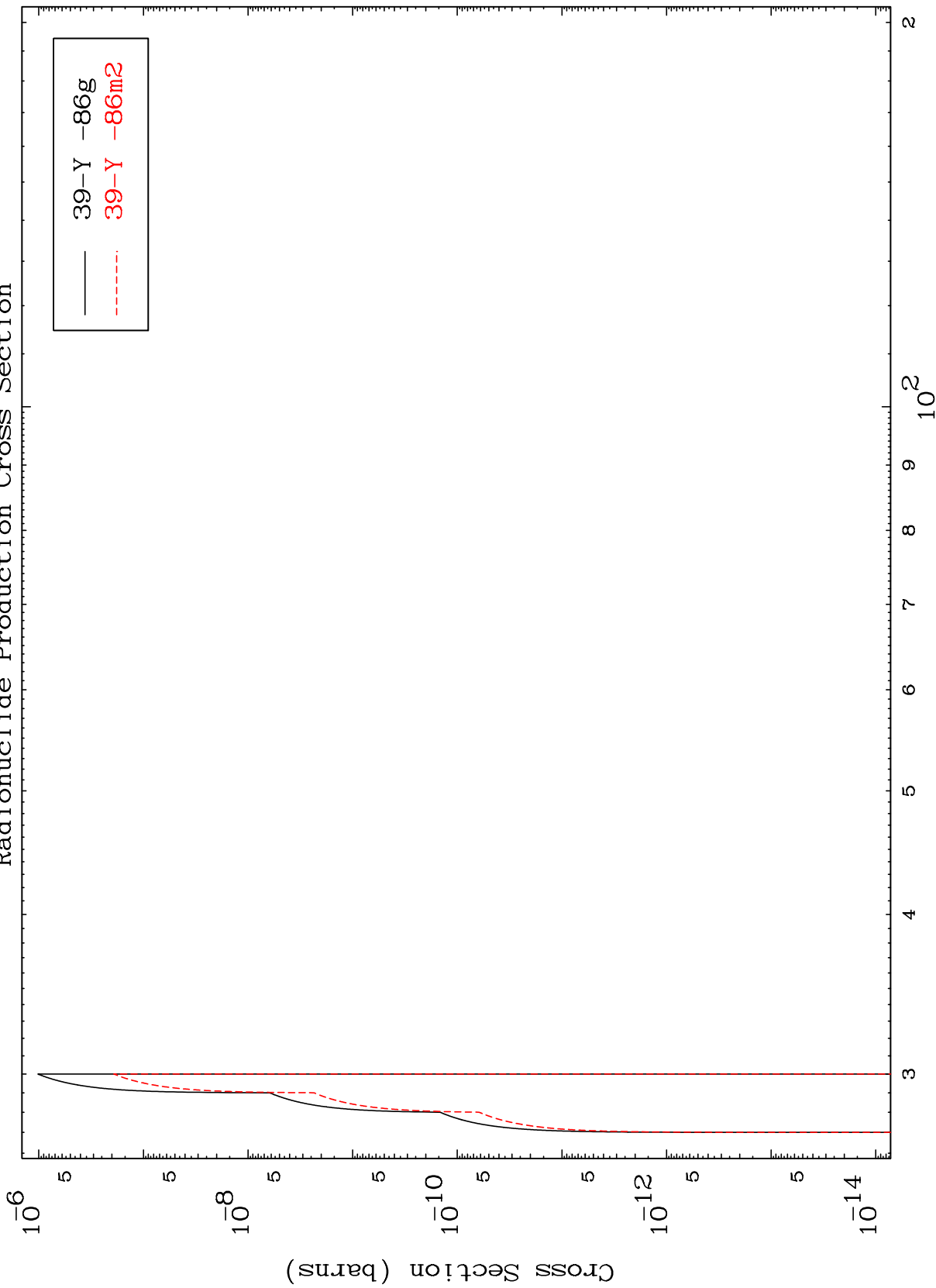


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(n,2n) d

40-Zr-89

Radionuclide Production Cross Section



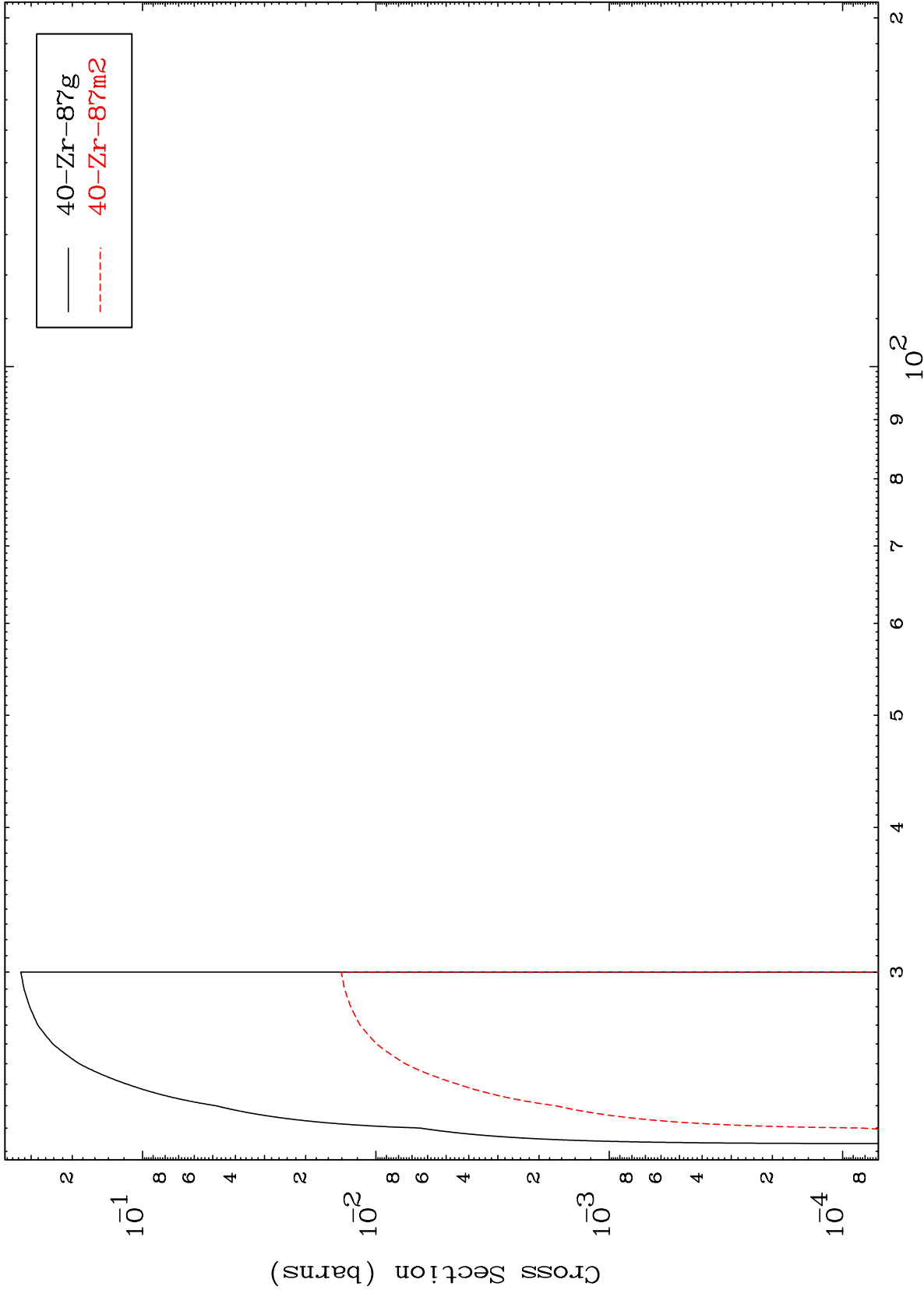
39-Y -86g  
39-Y -86m2

MAT 4023

(n,3n)

40-Zr-89

Radionuclide Production Cross Section



20

Incident Energy (MeV)

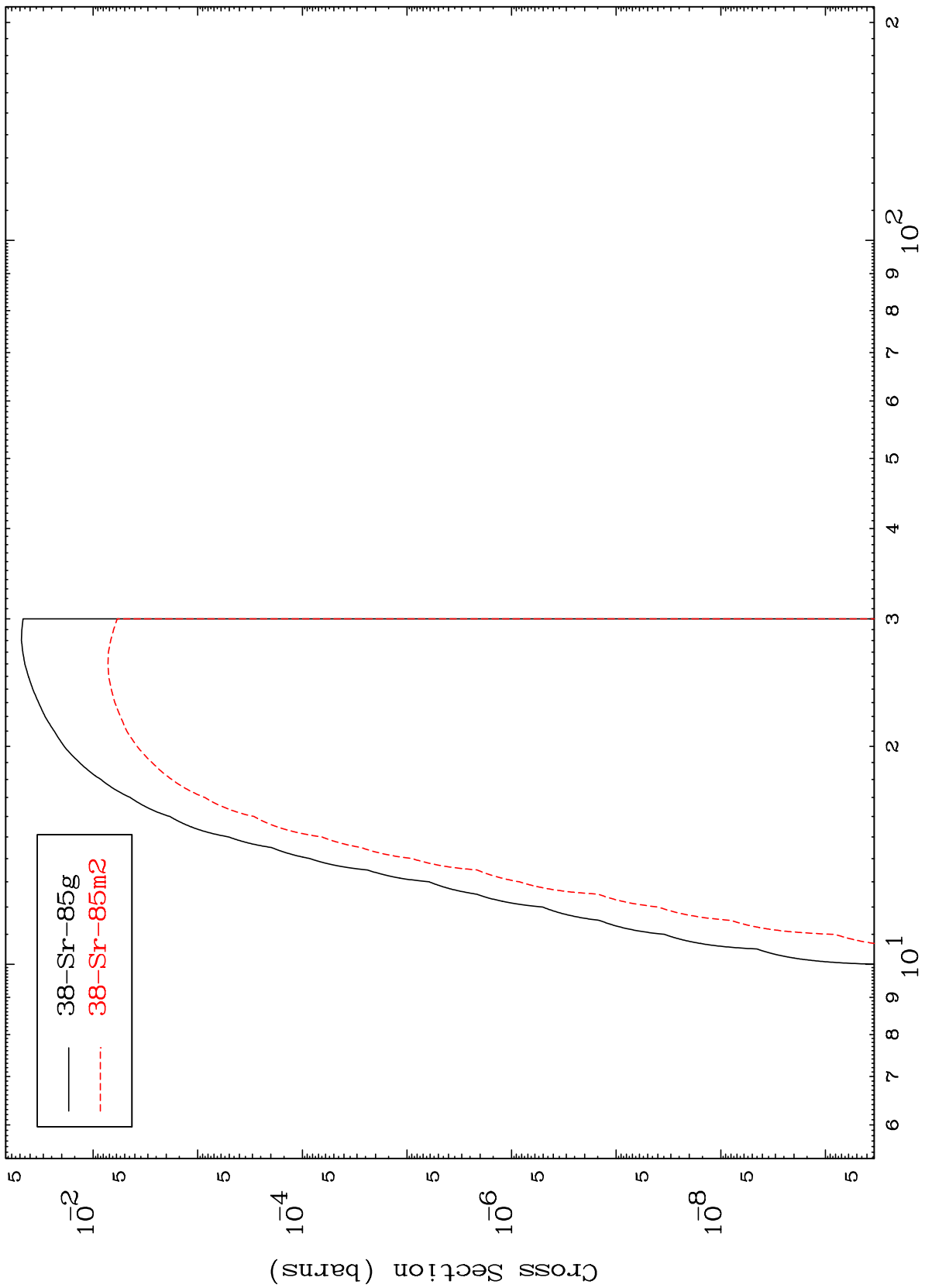
40-Zr-89

MAT 4023

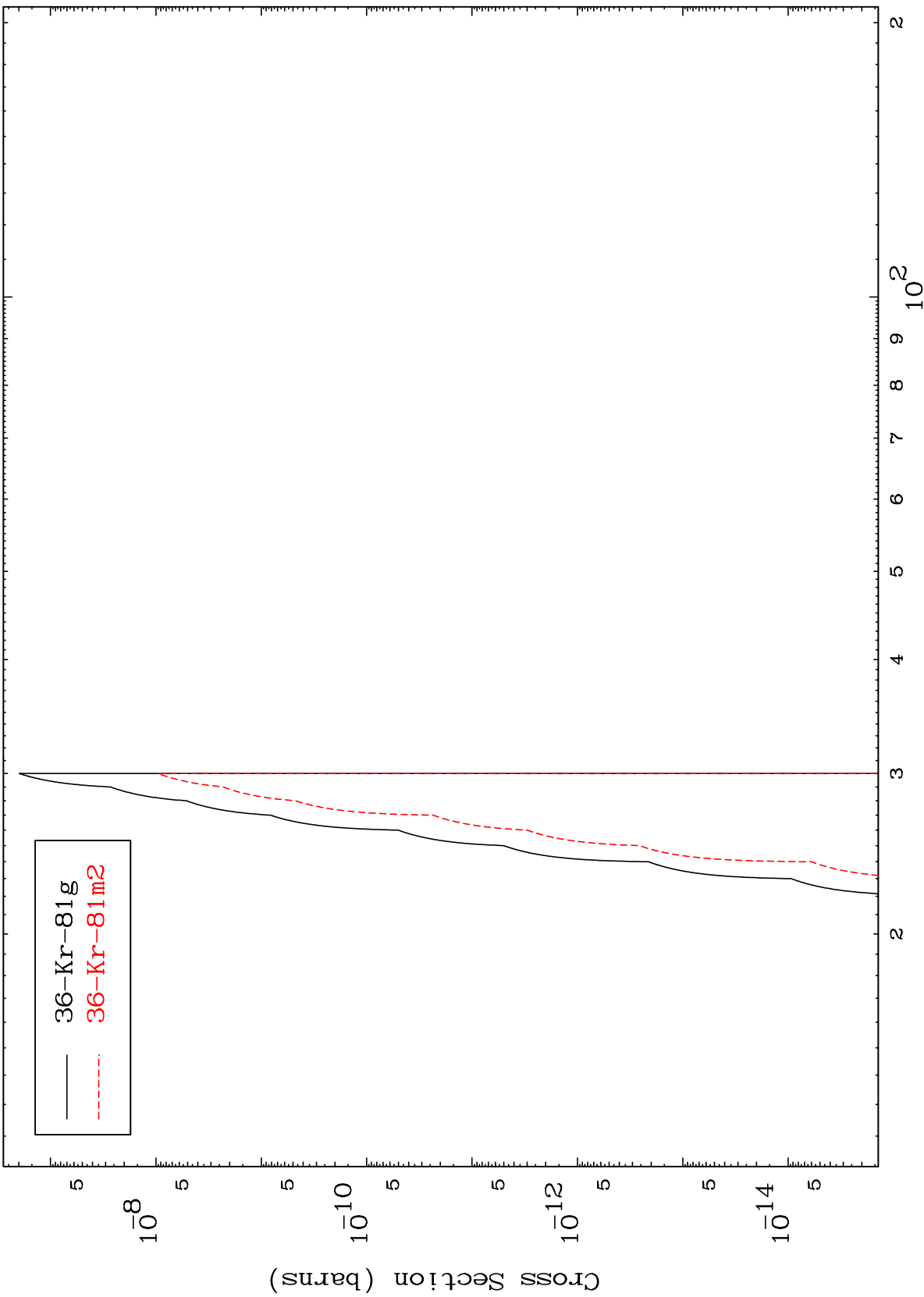
(n,n')  $\alpha$

40-Zr-89

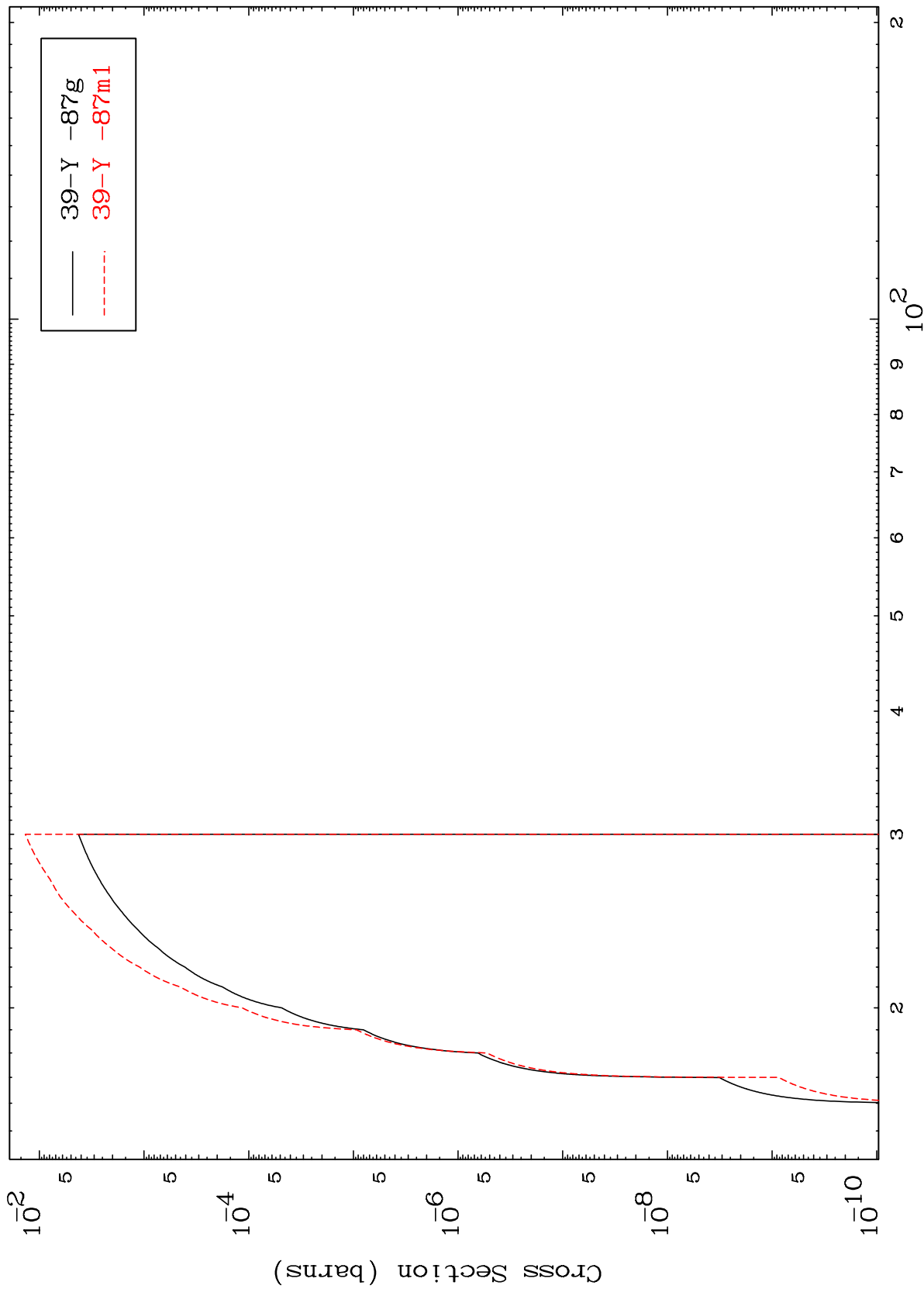
Radionuclide Production Cross Section



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



Radionuclide Production Cross Section



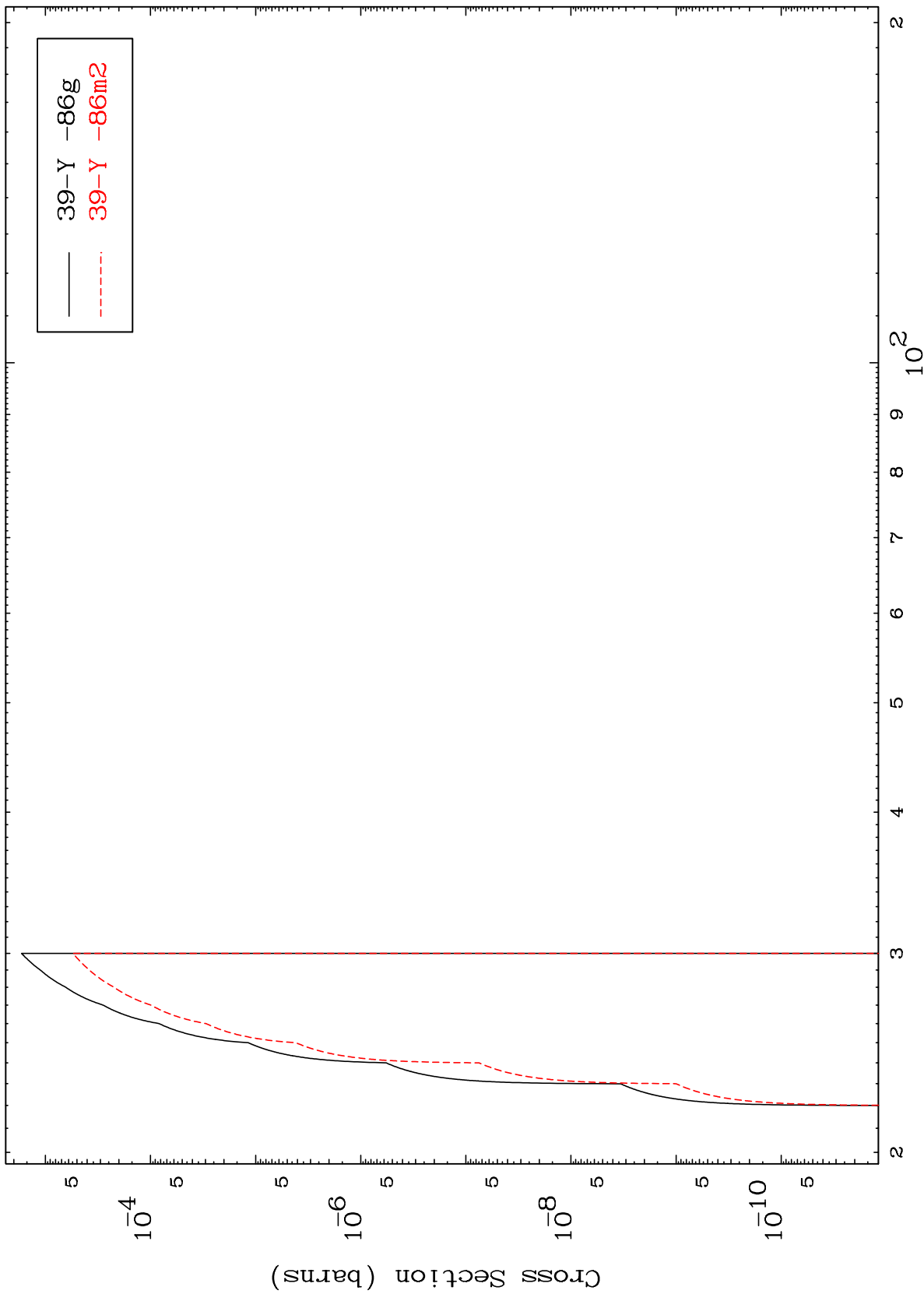


MAT 4023

(n,n') t

40-Zr-89

Radionuclide Production Cross Section

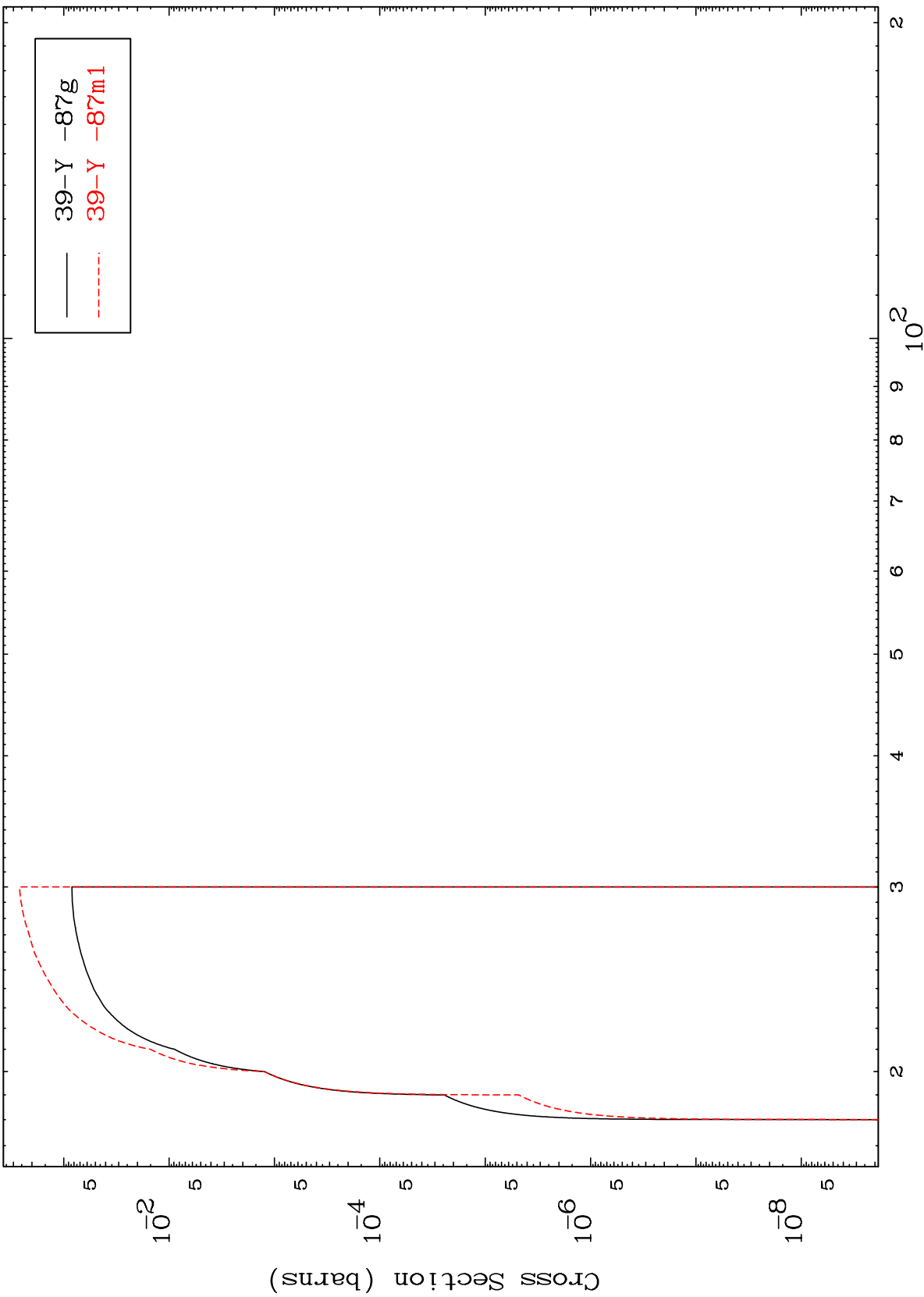


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Incident Energy (MeV)

40-Zr-89

Radionuclide Production Cross Section

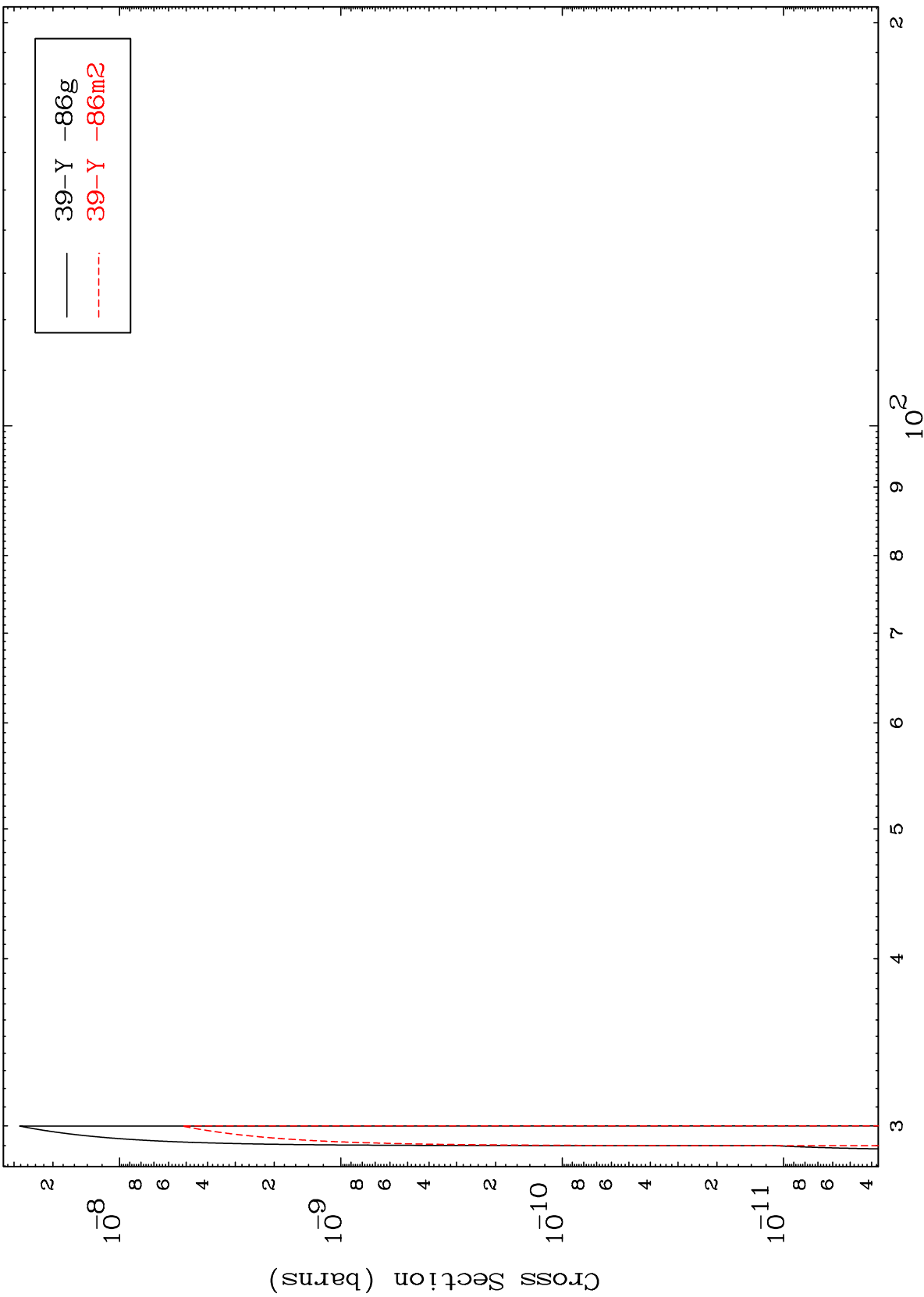


MAT 4023

(n,3n) p

40-Zr-89

Radionuclide Production Cross Section

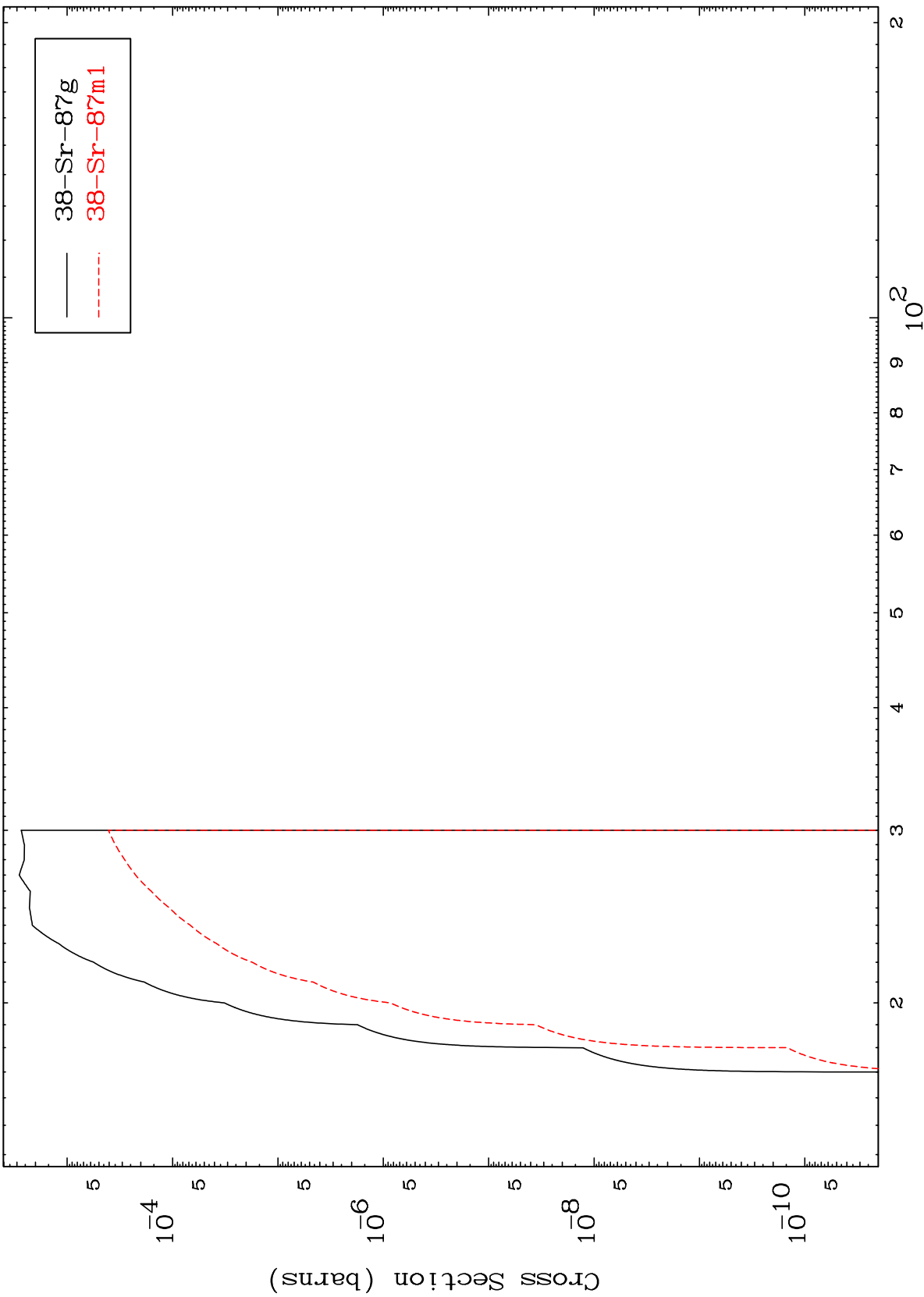


26

Incident Energy (MeV)

40-Zr-89

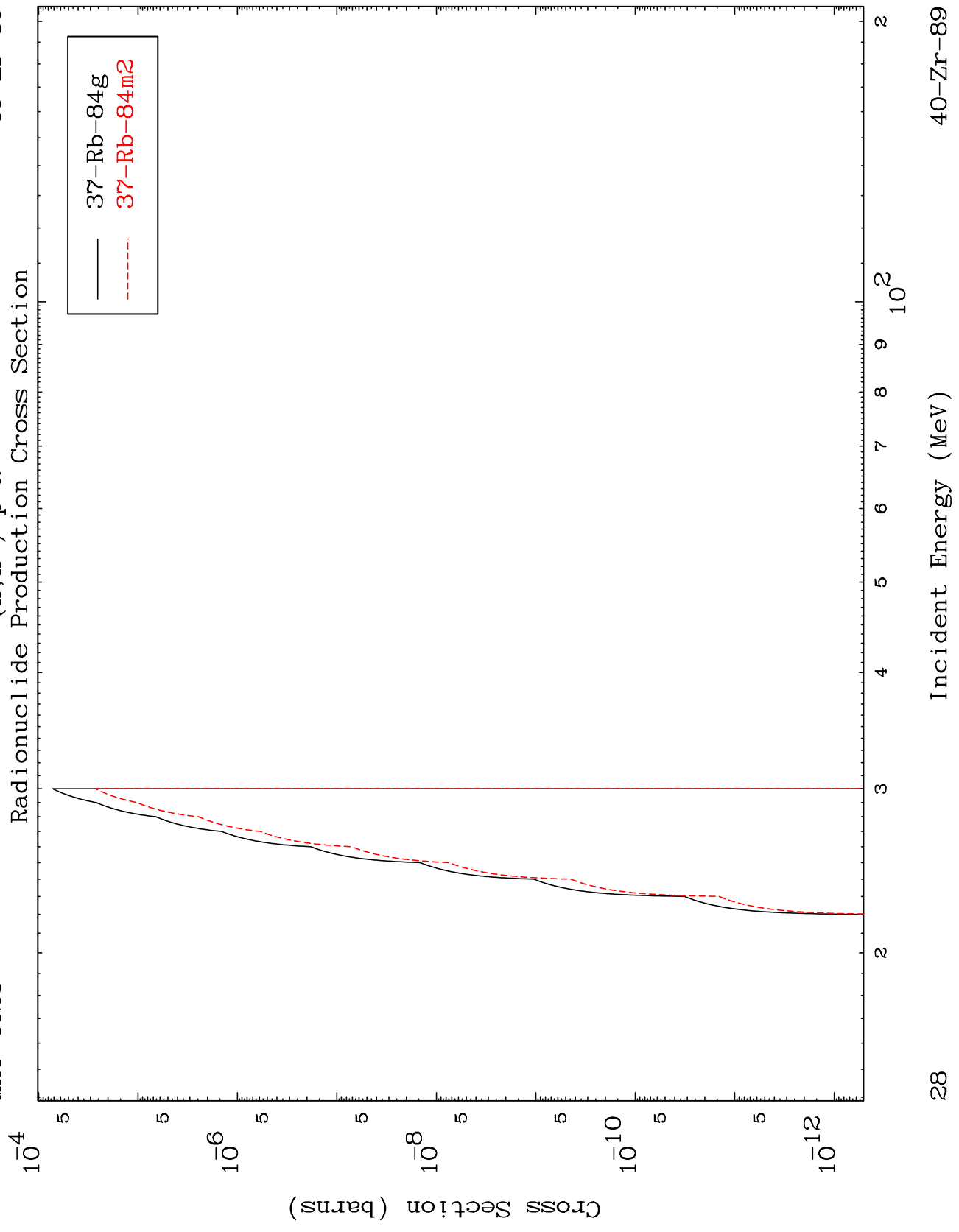
Radionuclide Production Cross Section

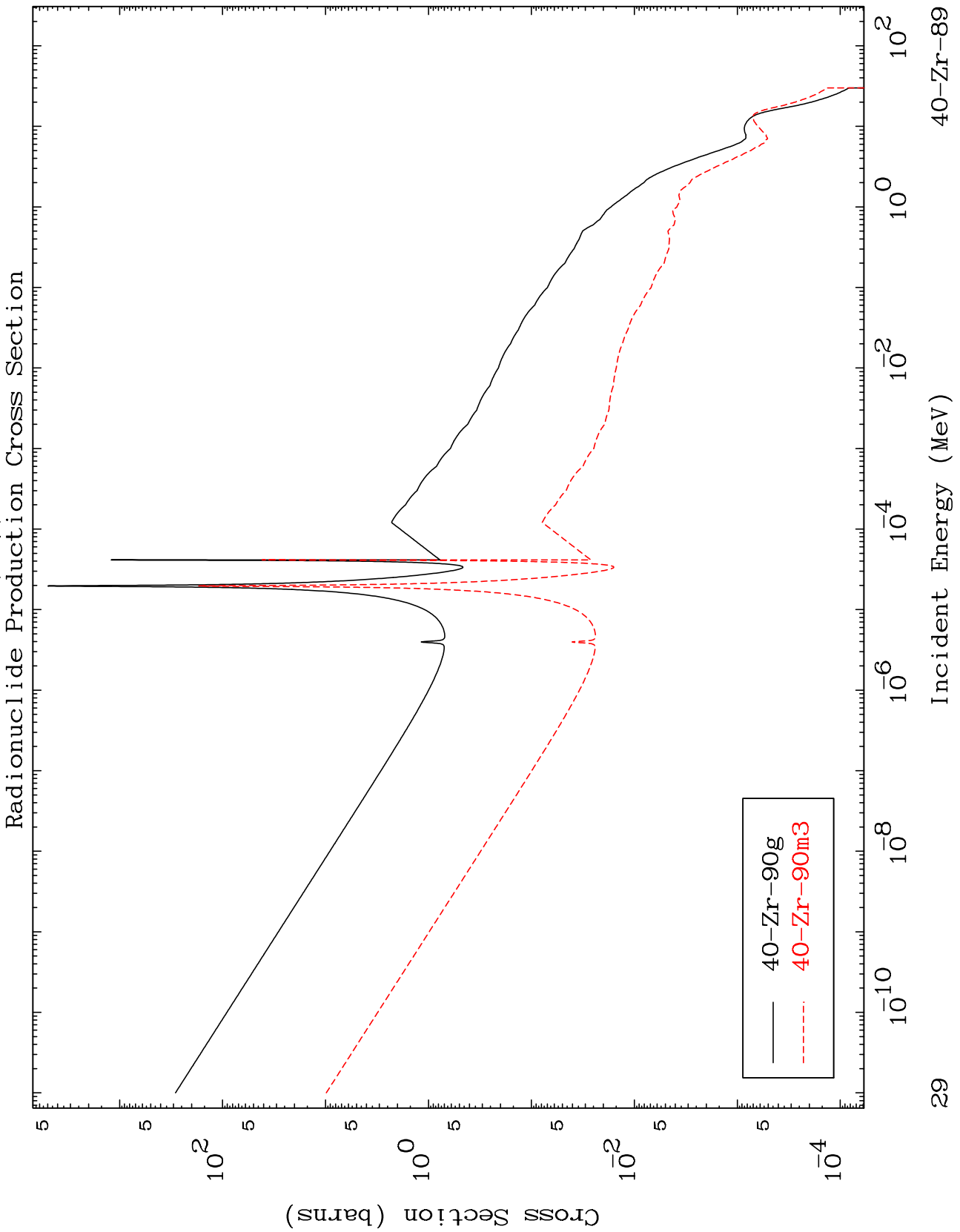


MAT 4023

(n,n') p  $\alpha$

40-Zr-89

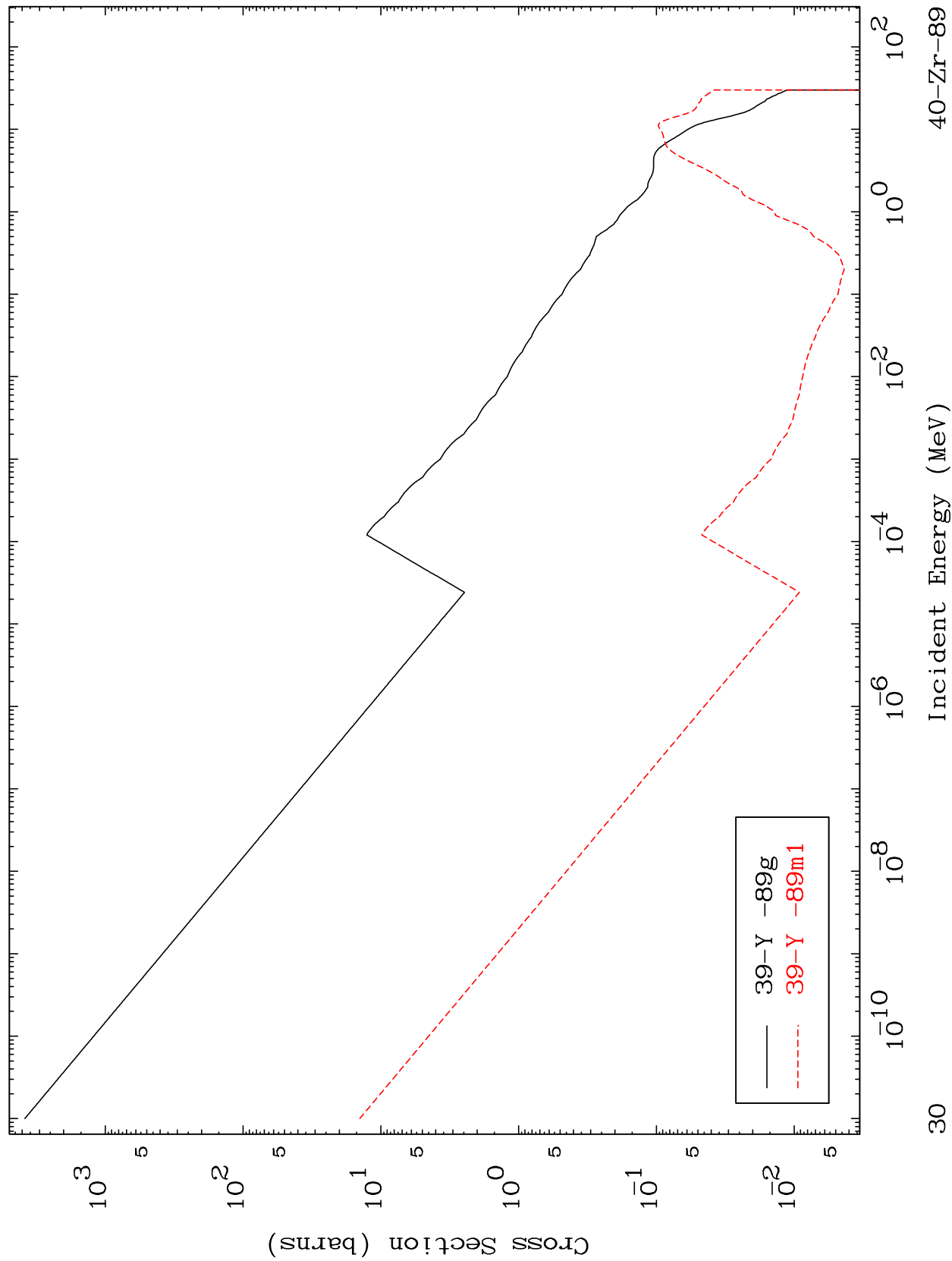




MAT 4023

40-Zr-89

(n,p)  
Radionuclide Production Cross Section

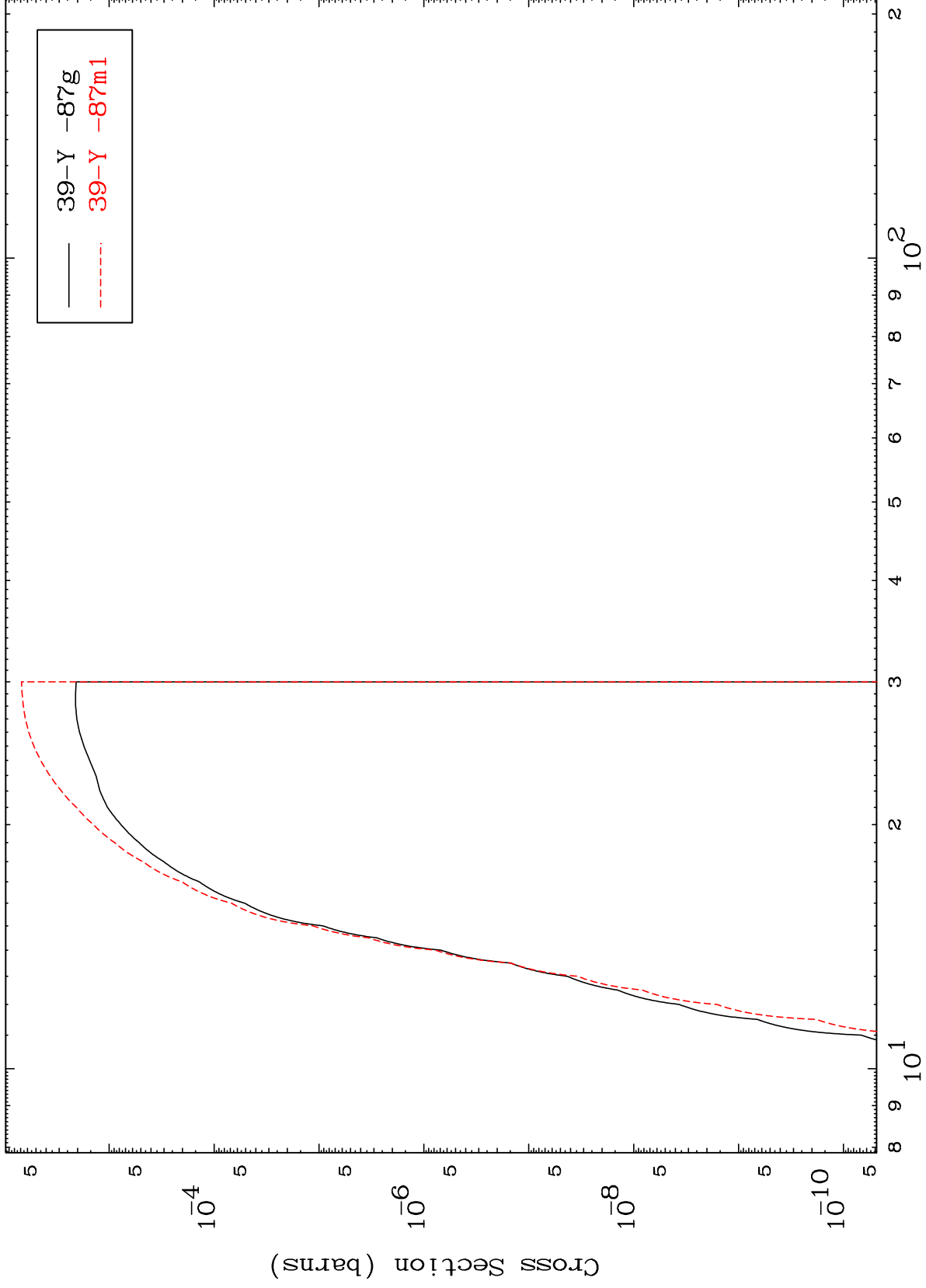


— 39-Y -89g  
- - - 39-Y -89m1

MAT 4023

40-Zr-89

(n, t)  
Radionuclide Production Cross Section



40-Zr-89

Incident Energy (MeV)

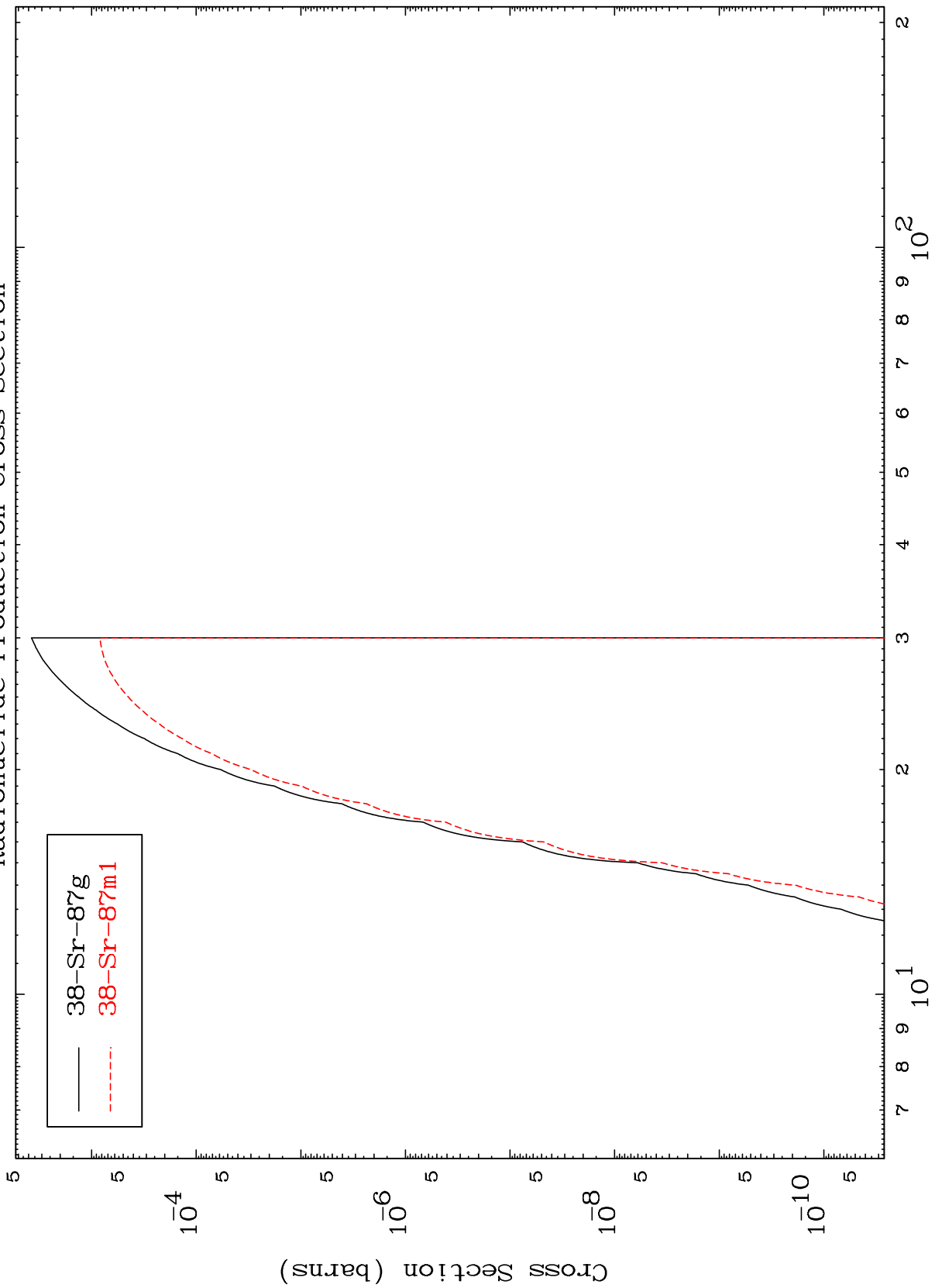
31



MAT 4023

40-Zr-89

Radionuclide Production Cross Section (n,He-3)



Legend:  
— 38-Sr-87g  
- - - 38-Sr-87m1

40-Zr-89

Incident Energy (MeV)

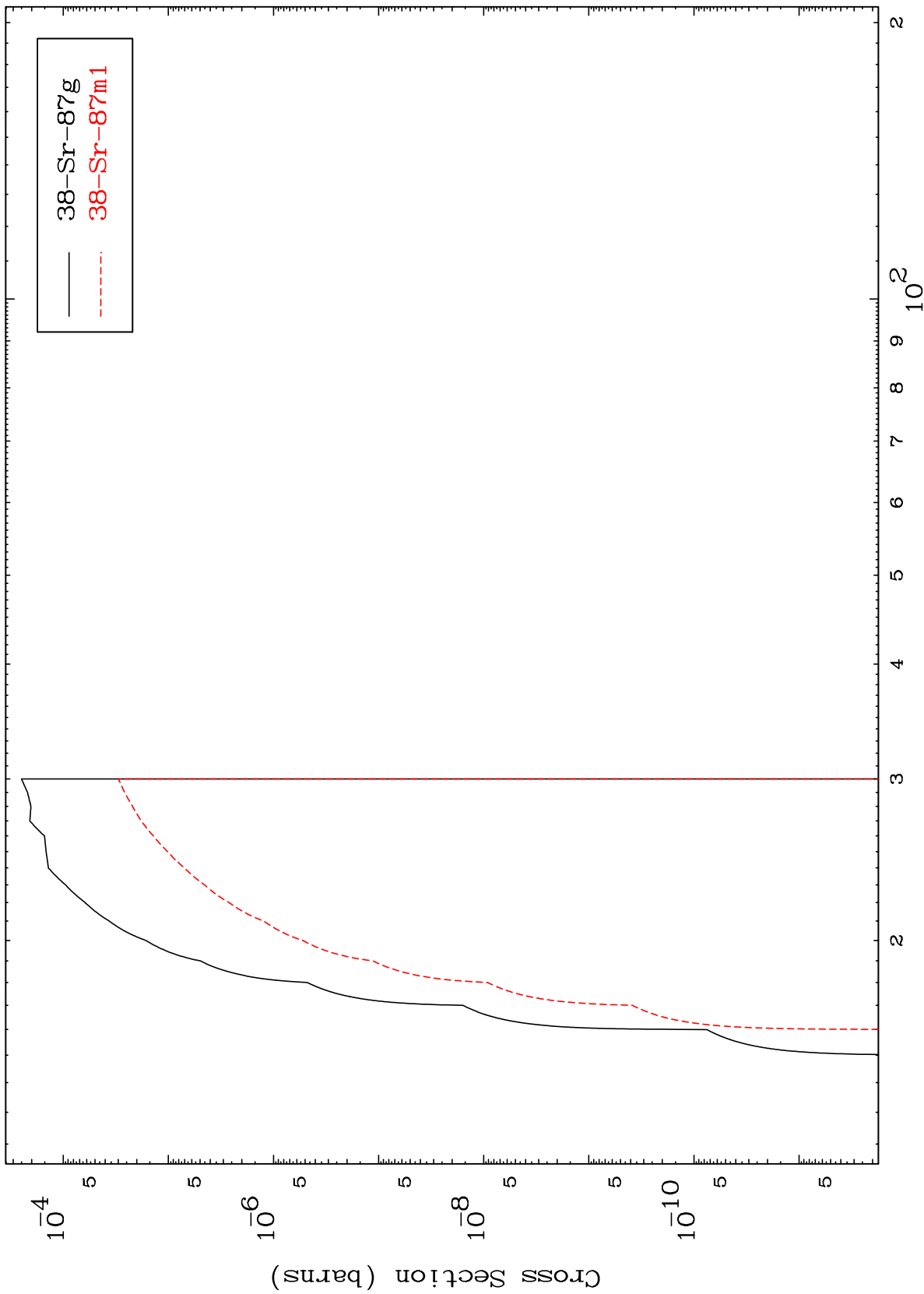
32

MAT 4023

(n,p) d

40-Zr-89

Radionuclide Production Cross Section



33

Incident Energy (MeV)

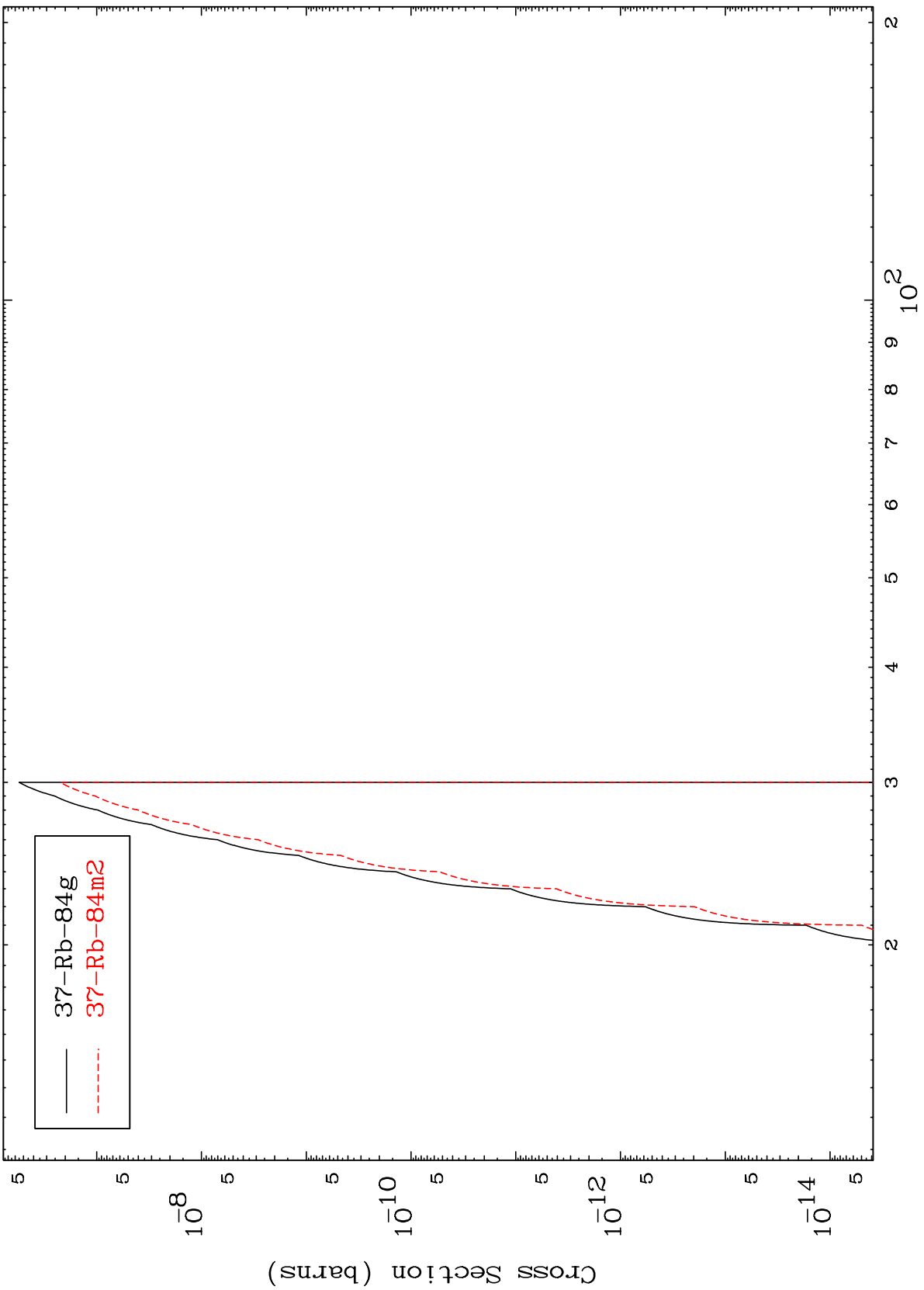
40-Zr-89

MAT 4023

(n,d)  $\alpha$

40-Zr-89

Radionuclide Production Cross Section



—  $^{37}\text{Rb-84g}$   
- - -  $^{37}\text{Rb-84m2}$