

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

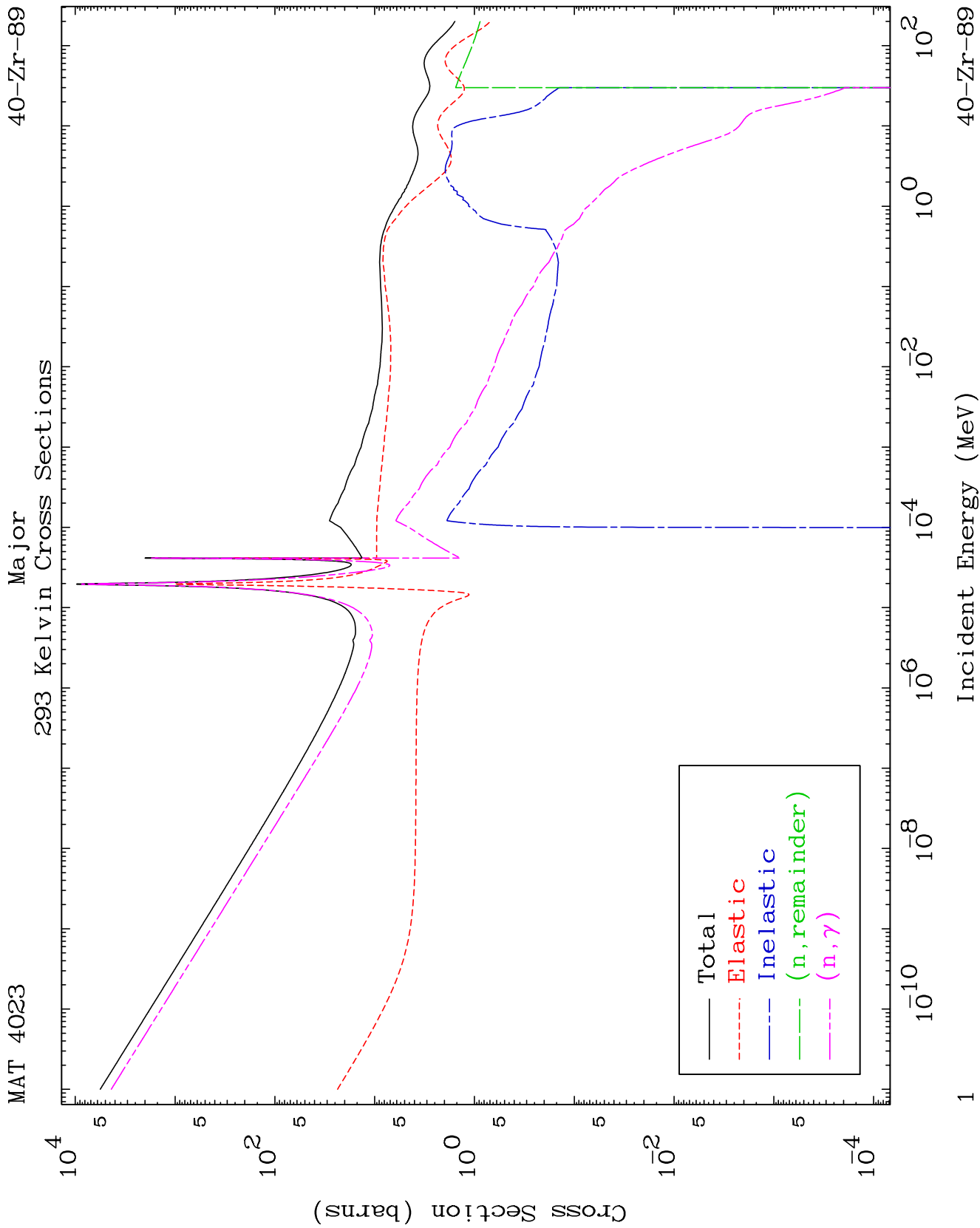
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Web:redcullen1.net/HOMEPAGE.NEW

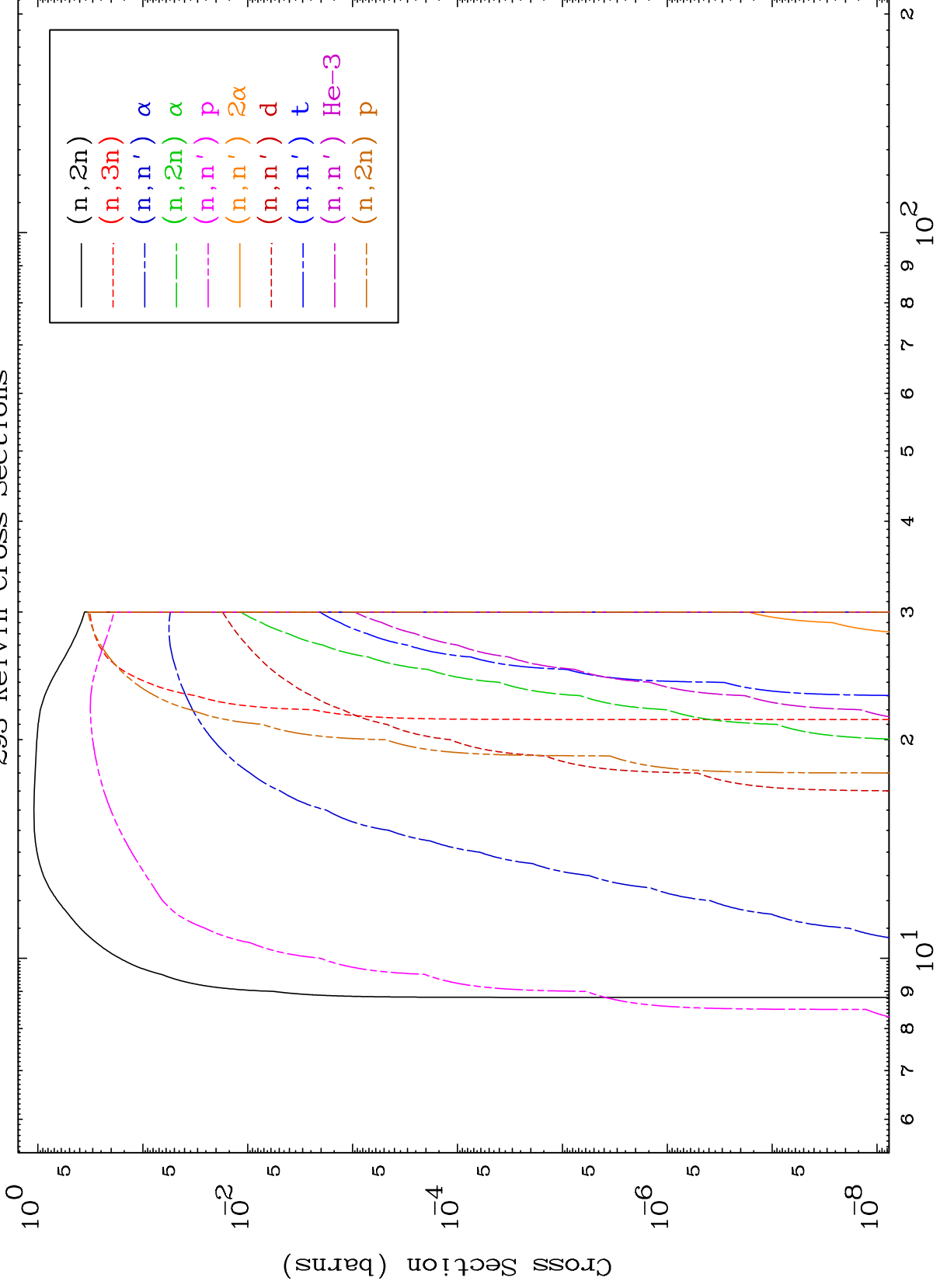
Press Mouse Button to Start



MAT 4023

Neutron Production  
293 Kelvin Cross Sections

40-Zr-89



2

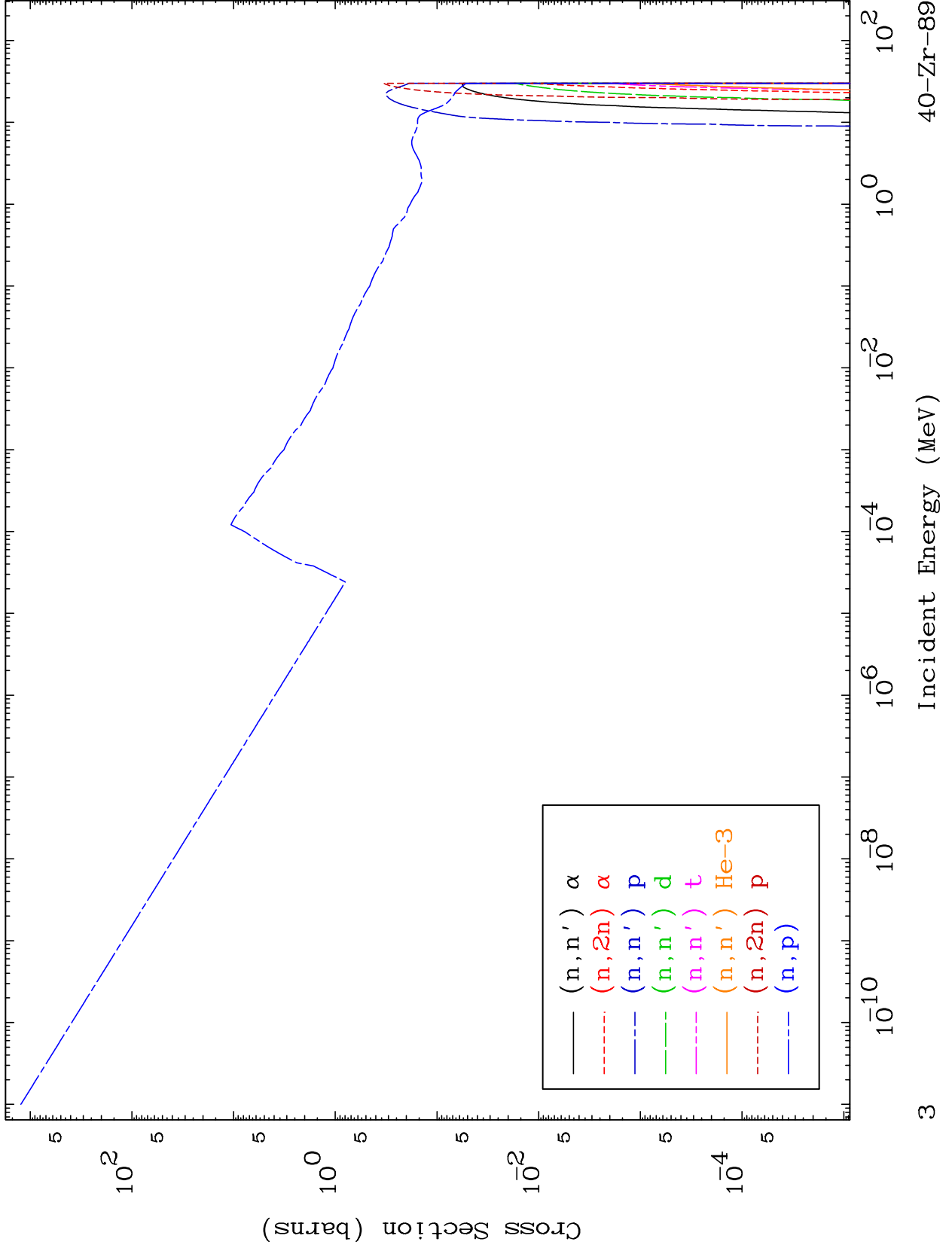
Incident Energy (MeV)

40-Zr-89

MAT 4023

Charged Particle  
293 Kelvin Cross Sections

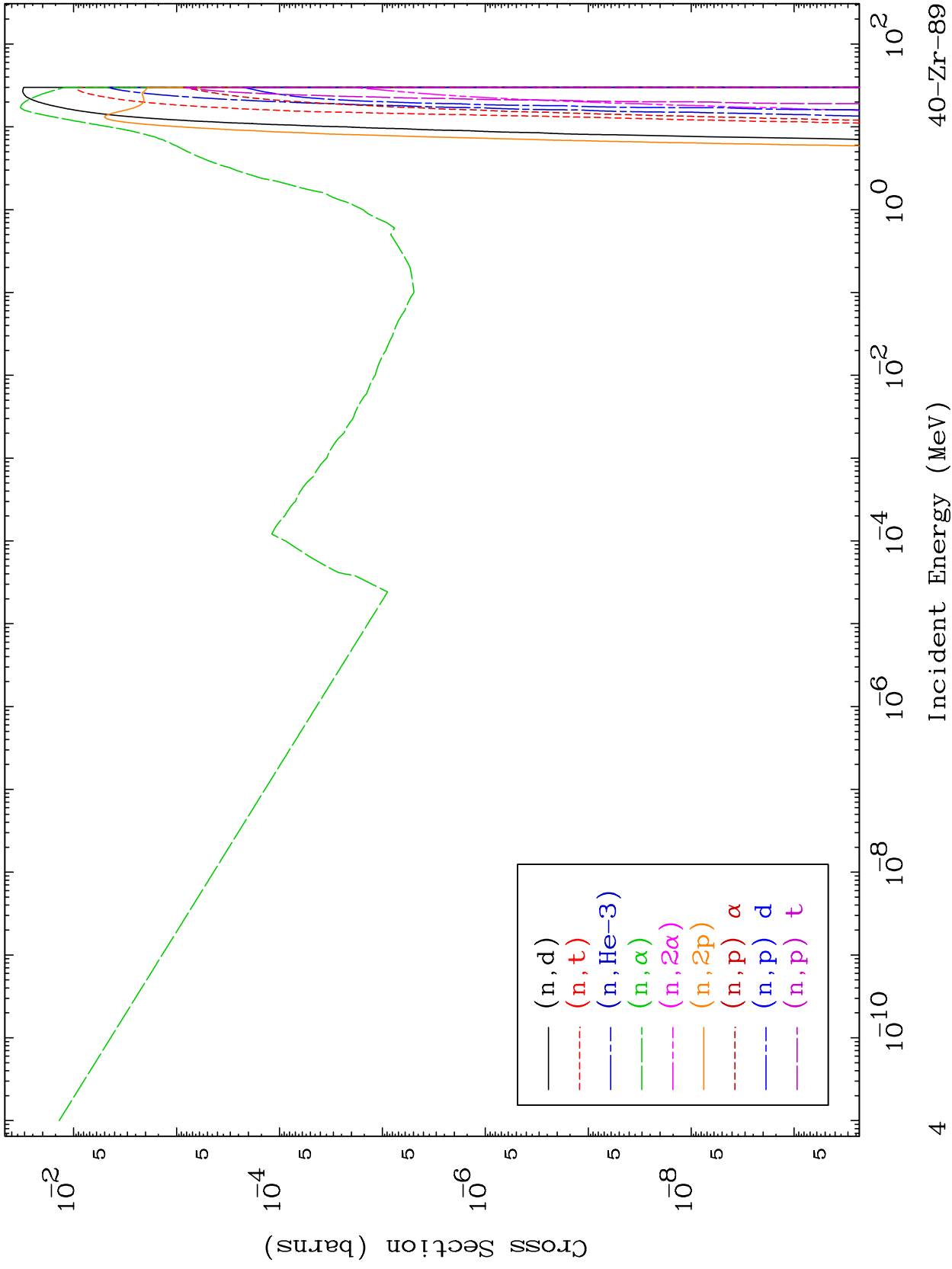
40-Zr-89



MAT 4023

Charged Particle  
293 Kelvin Cross Sections

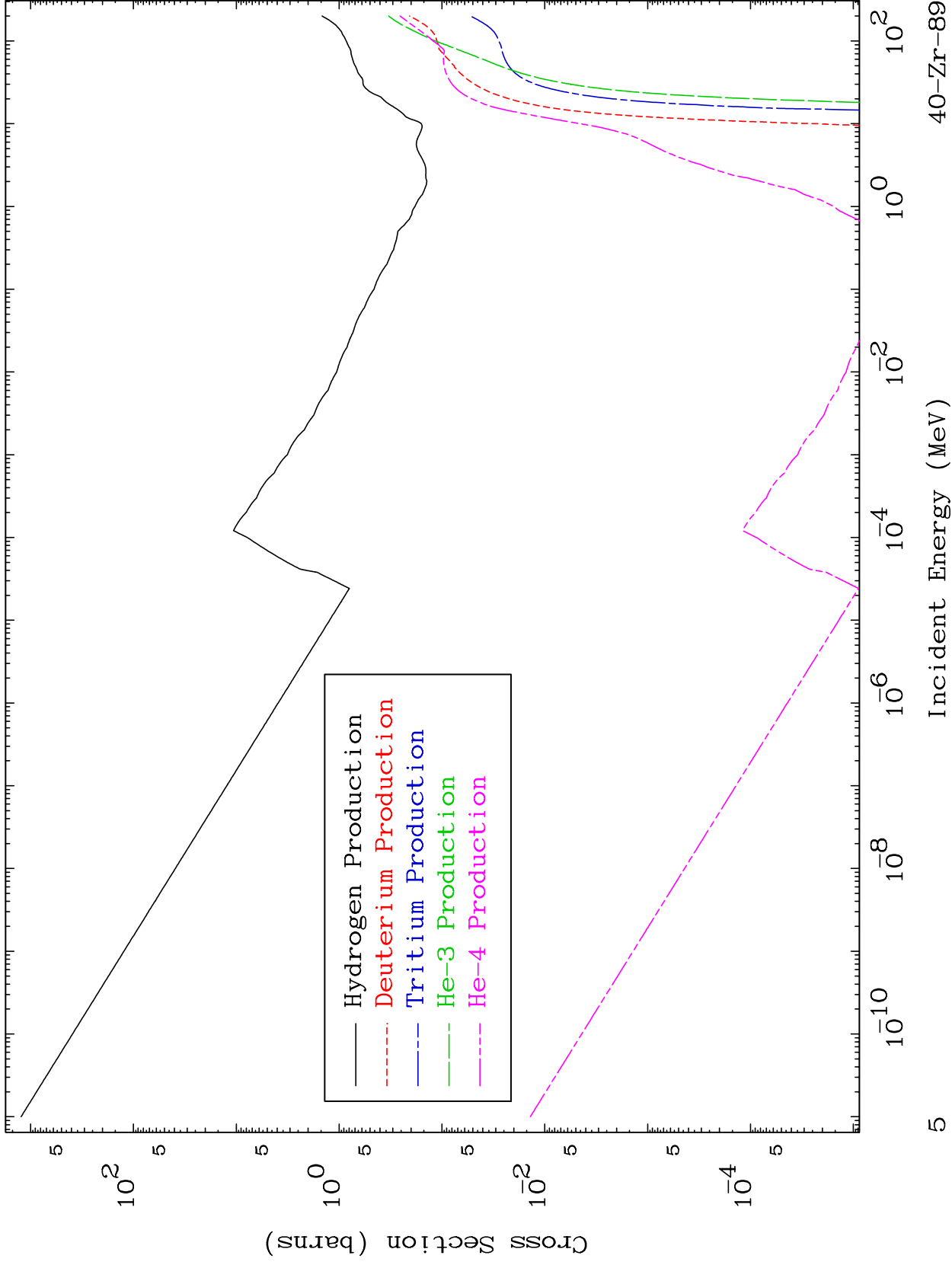
40-Zr-89

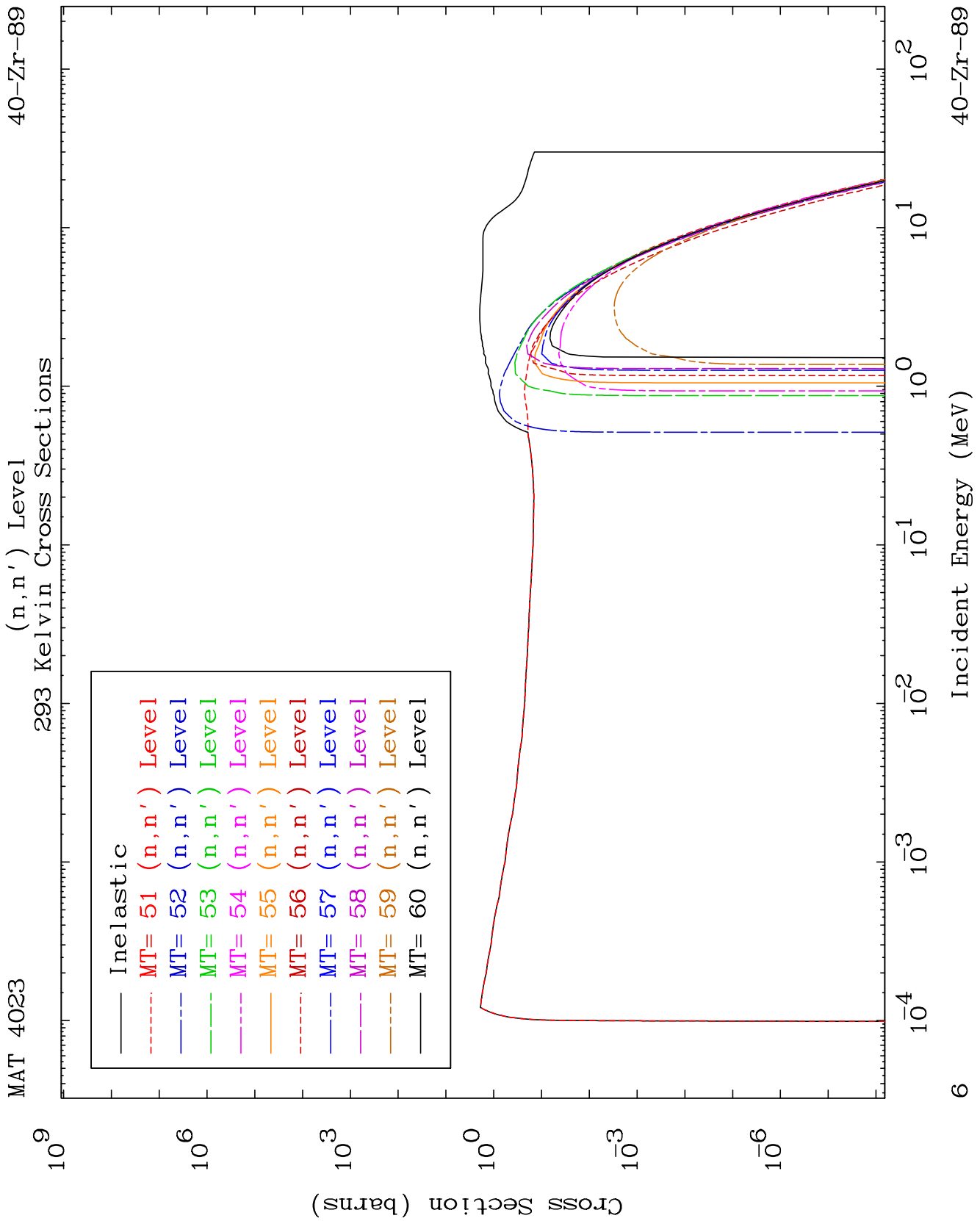


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Particle Production  
293 Kelvin Cross Sections

40-Zr-89



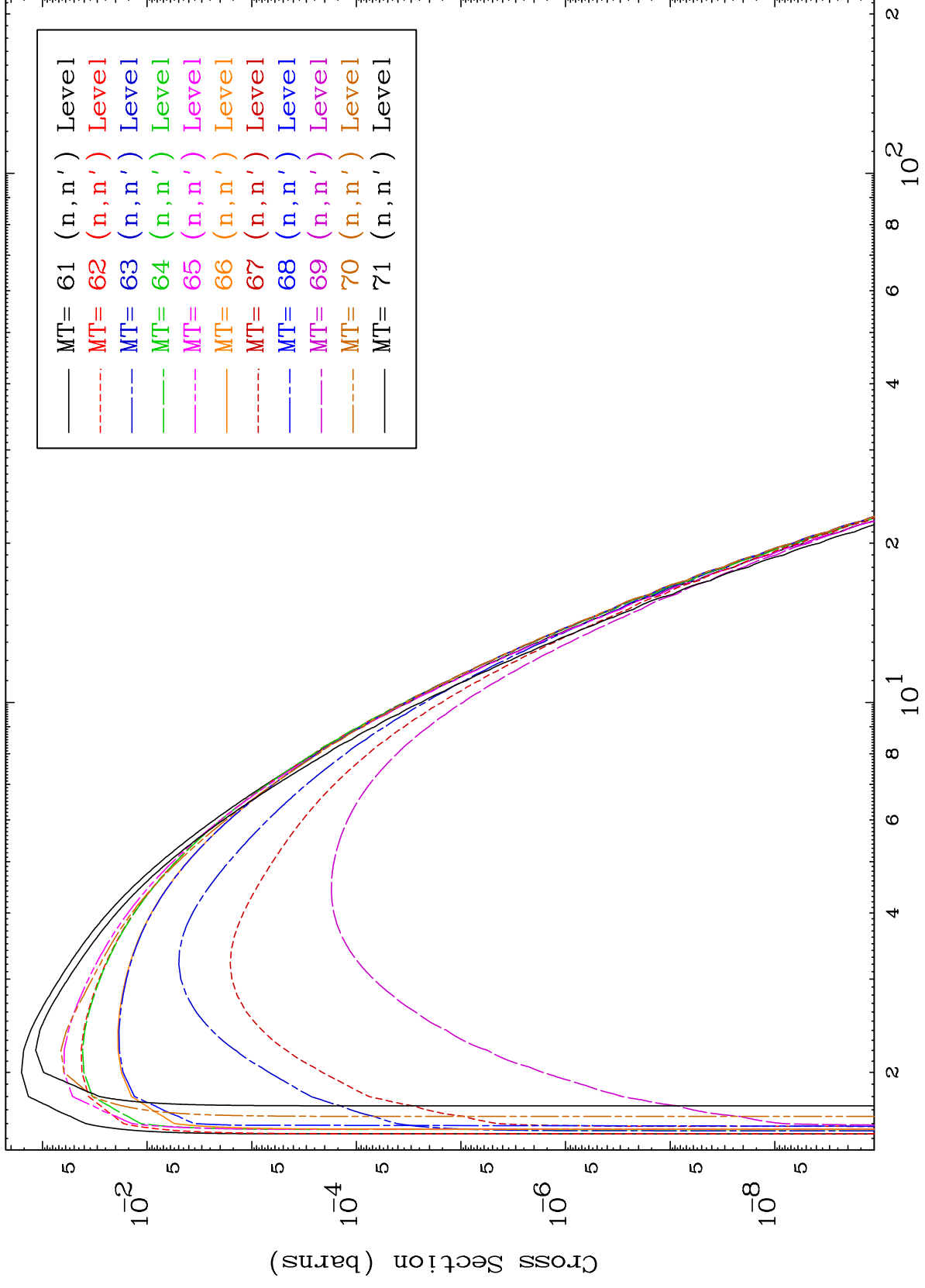


MAT 4023

(n,n') Level

293 Kelvin Cross Sections

40-Zr-89



7

Incident Energy (MeV)

40-Zr-89

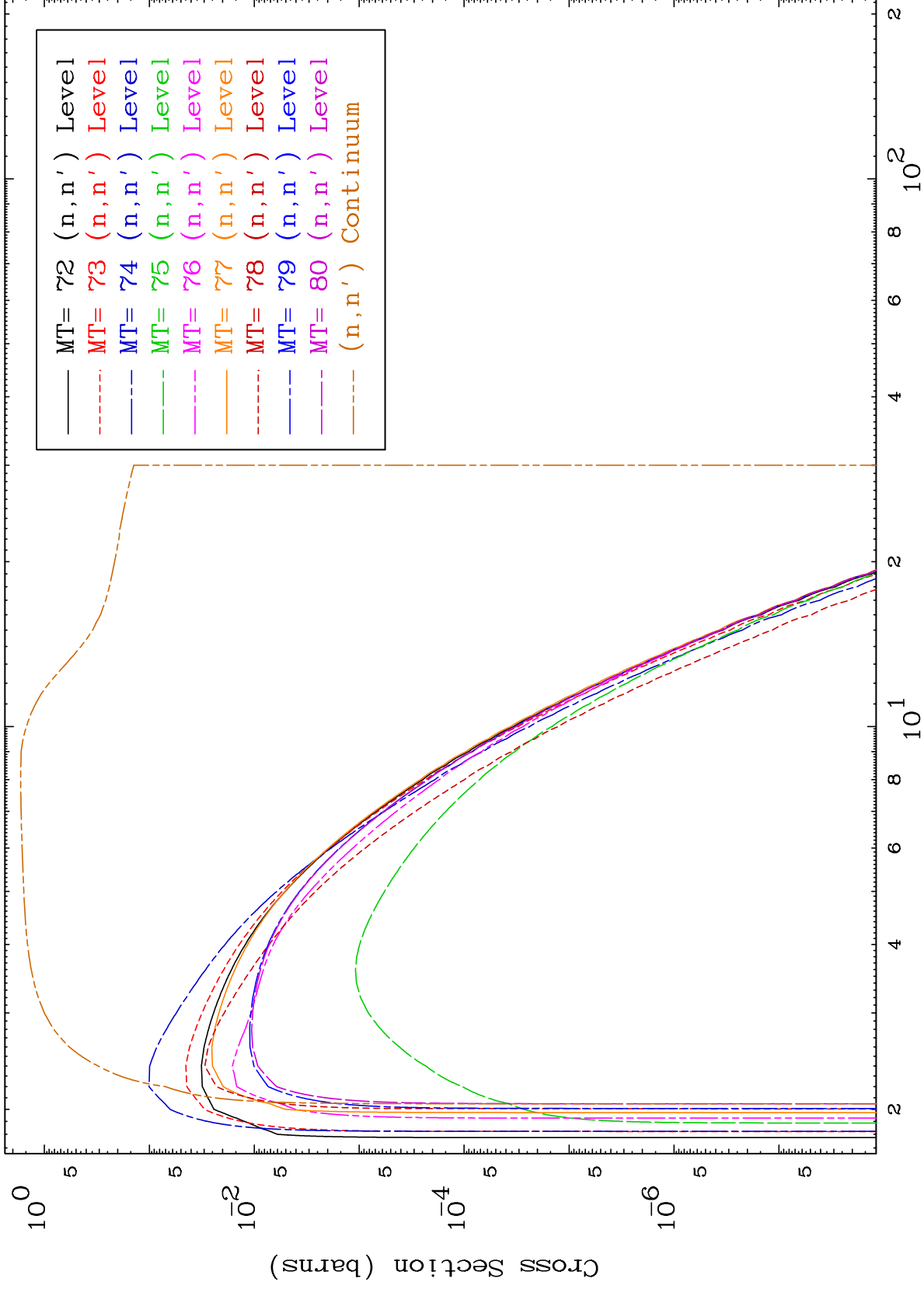


MAT 4023

(n,n') Level

40-Zr-89

293 Kelvin Cross Sections



8

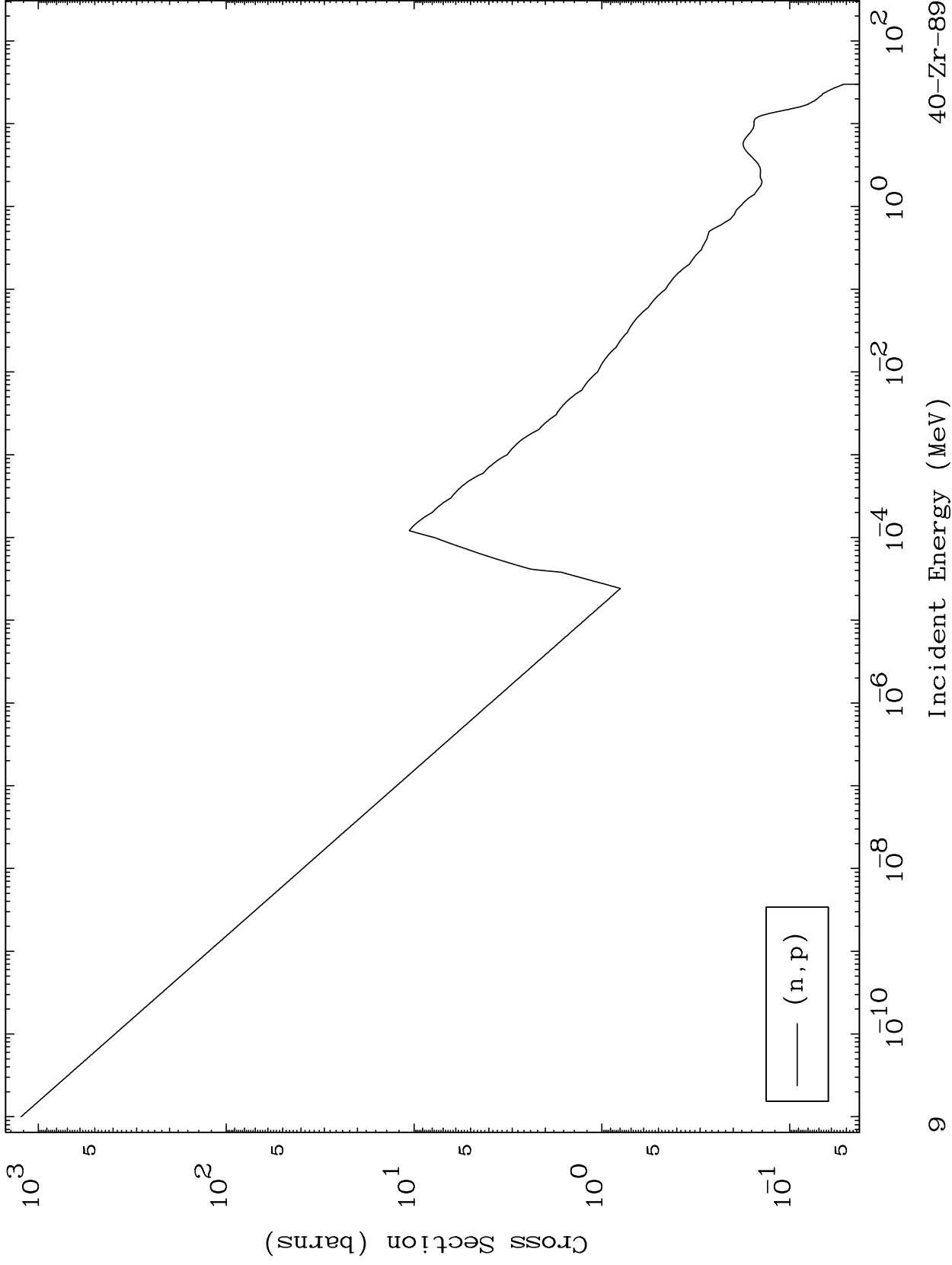
Incident Energy (MeV)

40-Zr-89

MAT 4023

(n,p) Levels  
293 Kelvin Cross Sections

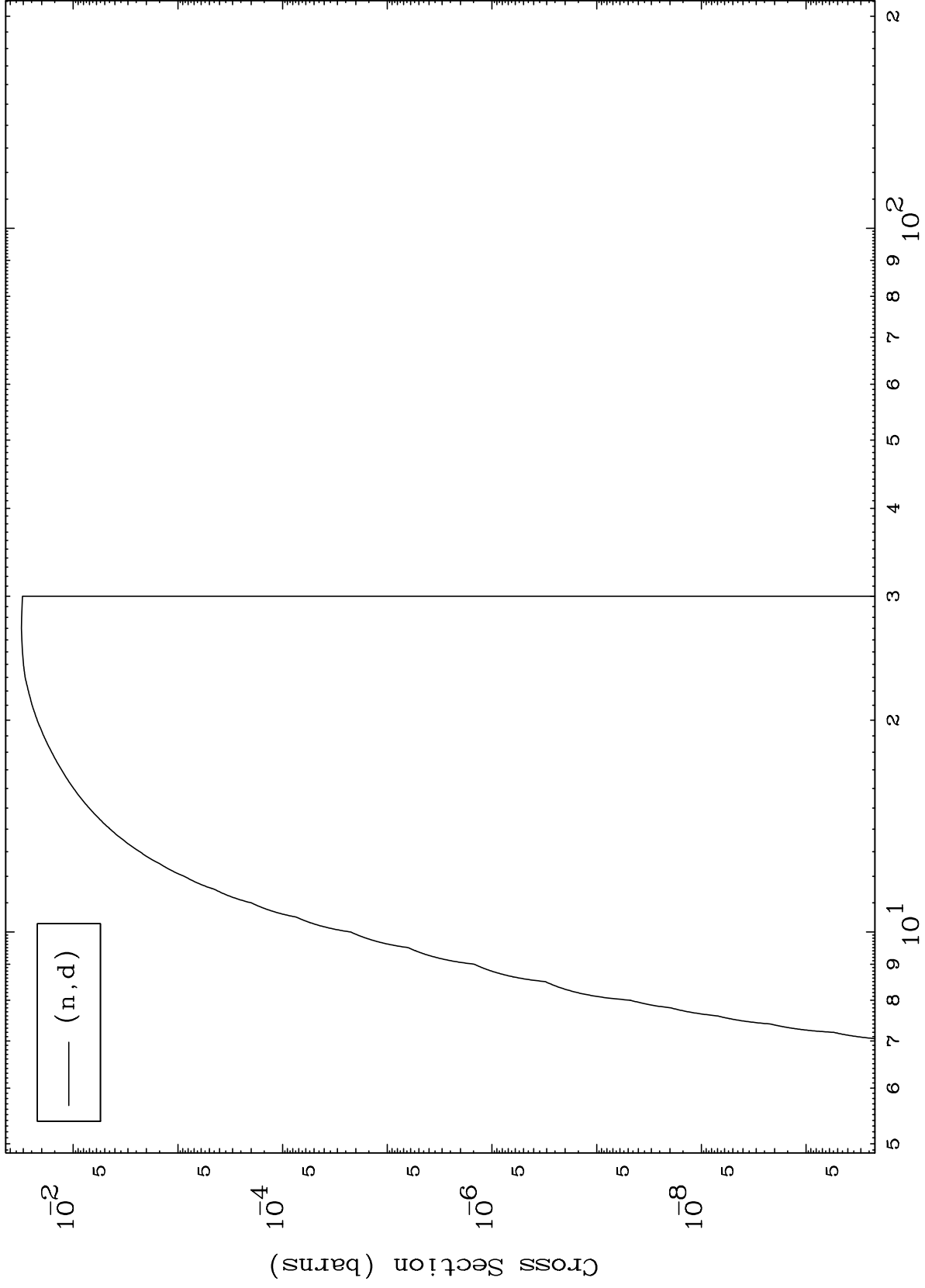
40-Zr-89



MAT 4023

(n,d) Levels  
293 Kelvin Cross Sections

40-Zr-89



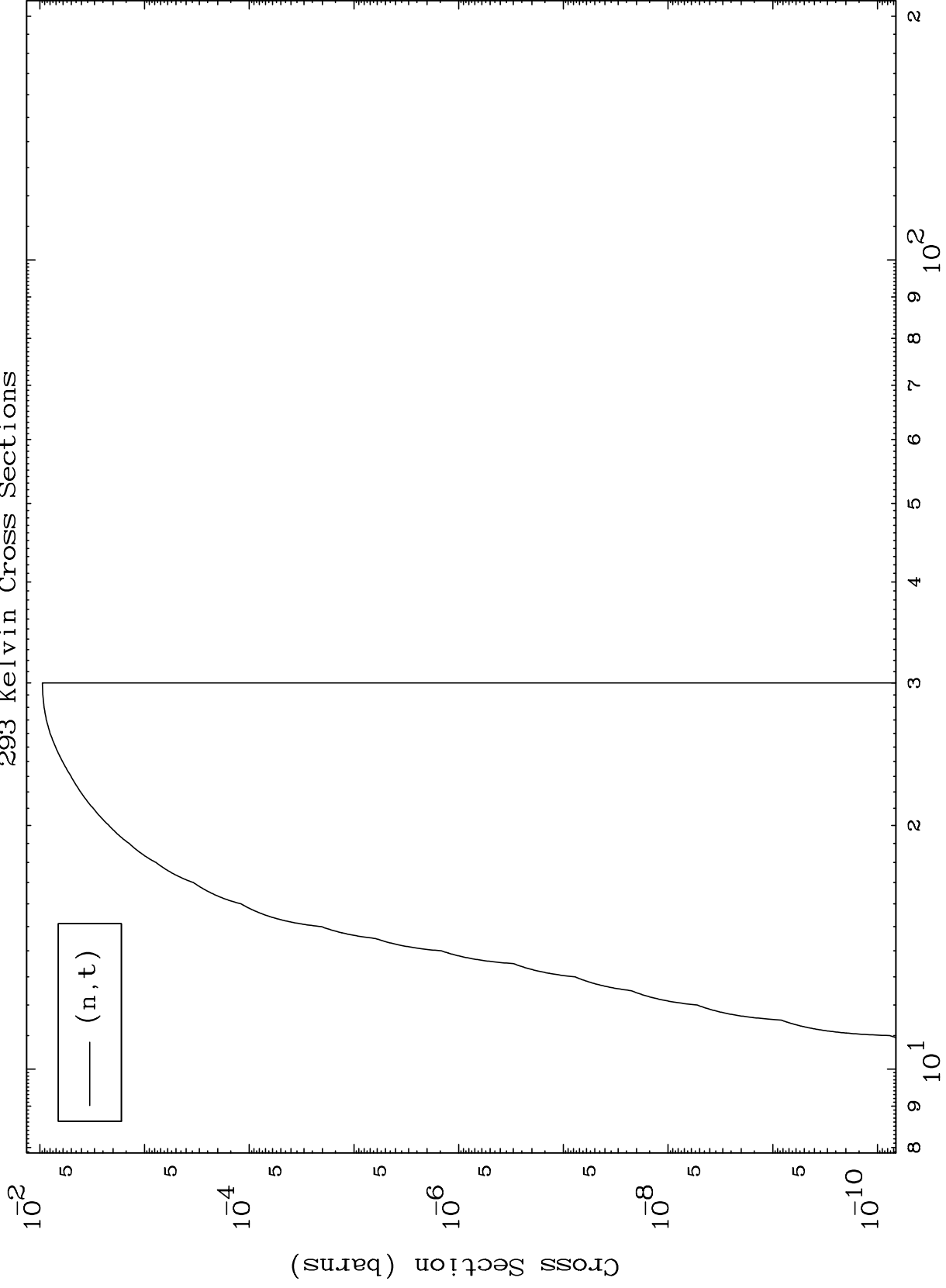
Incident Energy (MeV)

40-Zr-89

MAT 4023

(n,t) Levels  
293 Kelvin Cross Sections

40-Zr-89



11

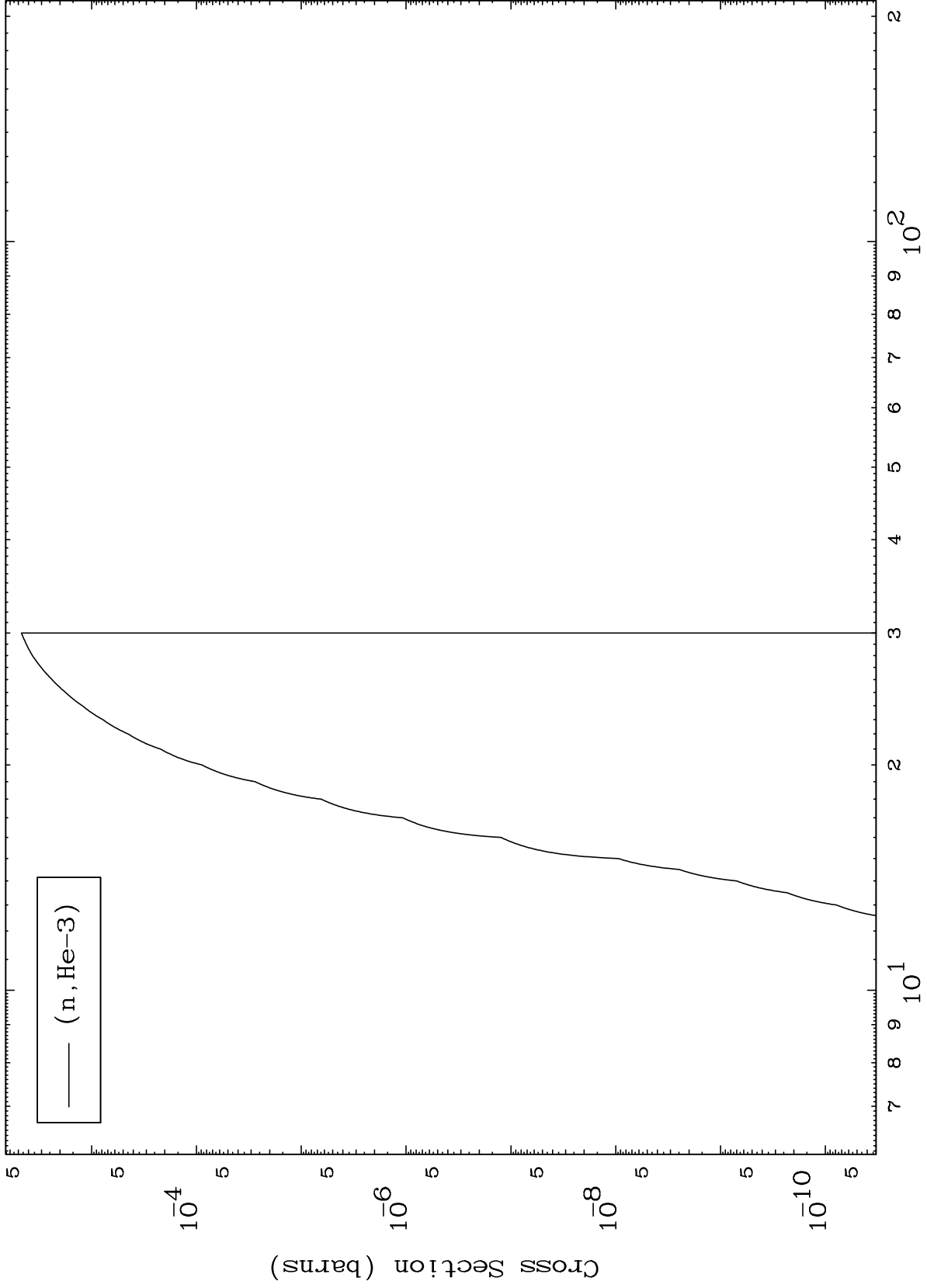
Incident Energy (MeV)

40-Zr-89

MAT 4023

(n,He3) Levels  
293 Kelvin Cross Sections

40-Zr-89



12

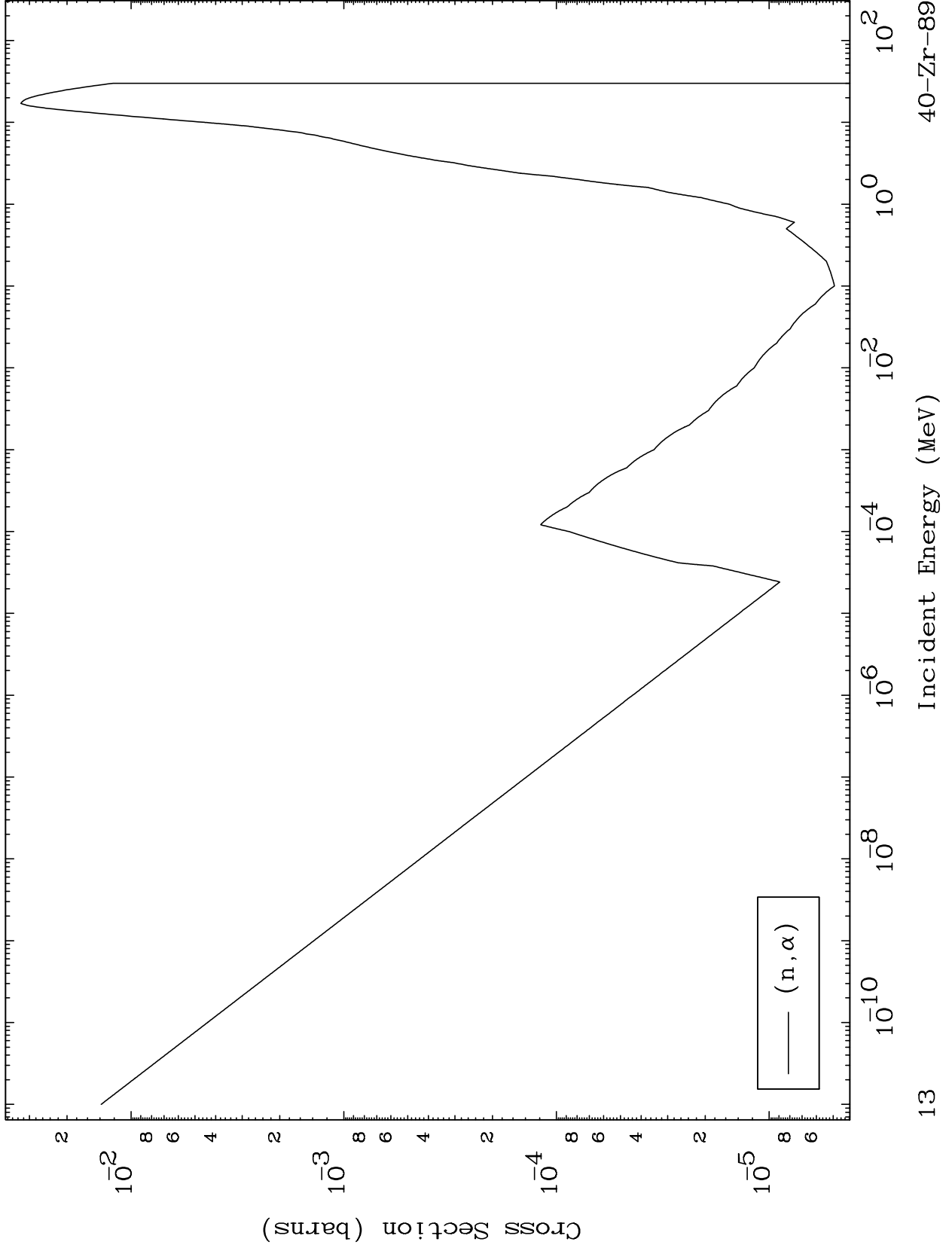
Incident Energy (MeV)

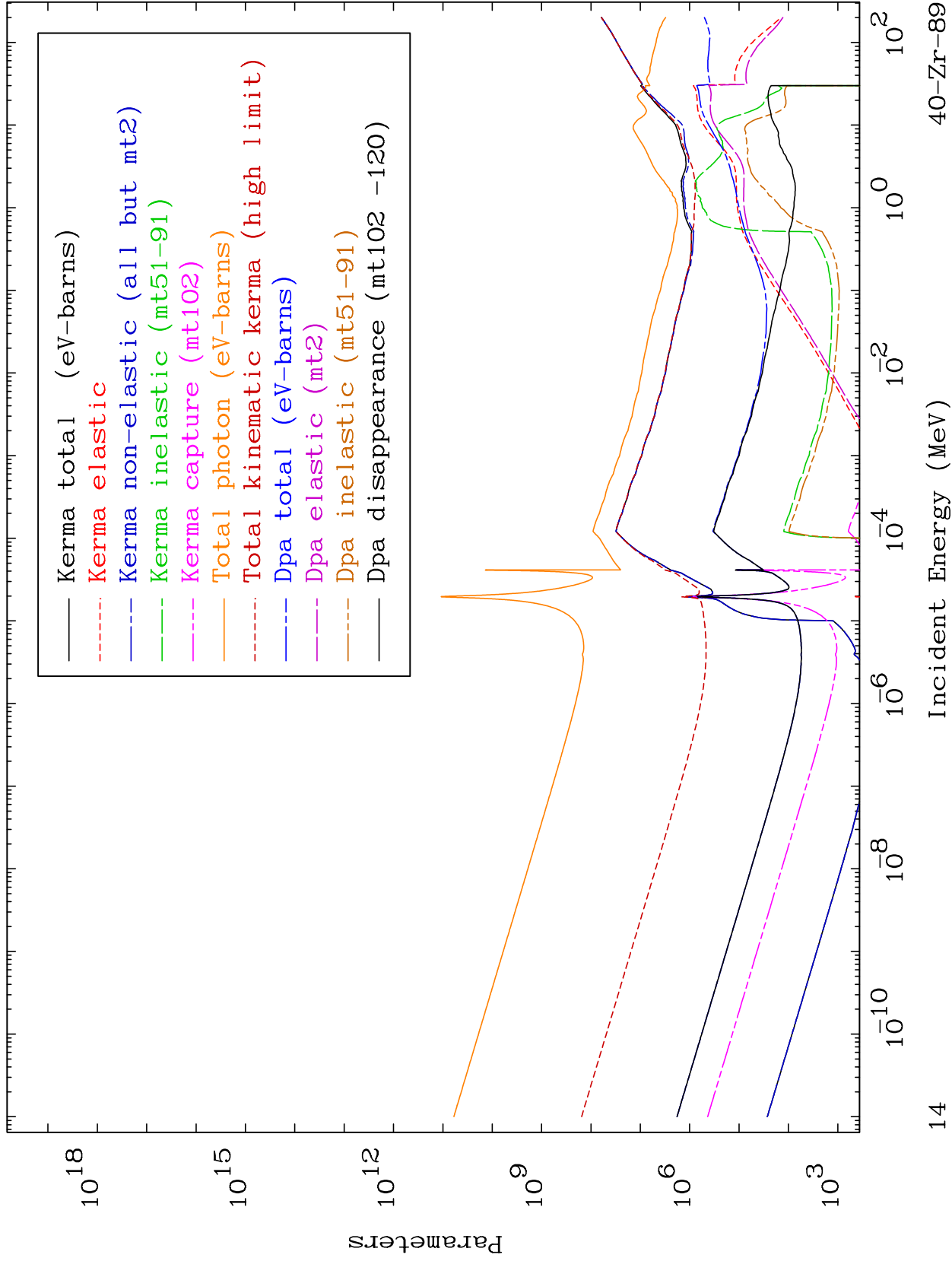
40-Zr-89

MAT 4023

(n,α) Levels  
293 Kelvin Cross Sections

40-Zr-89





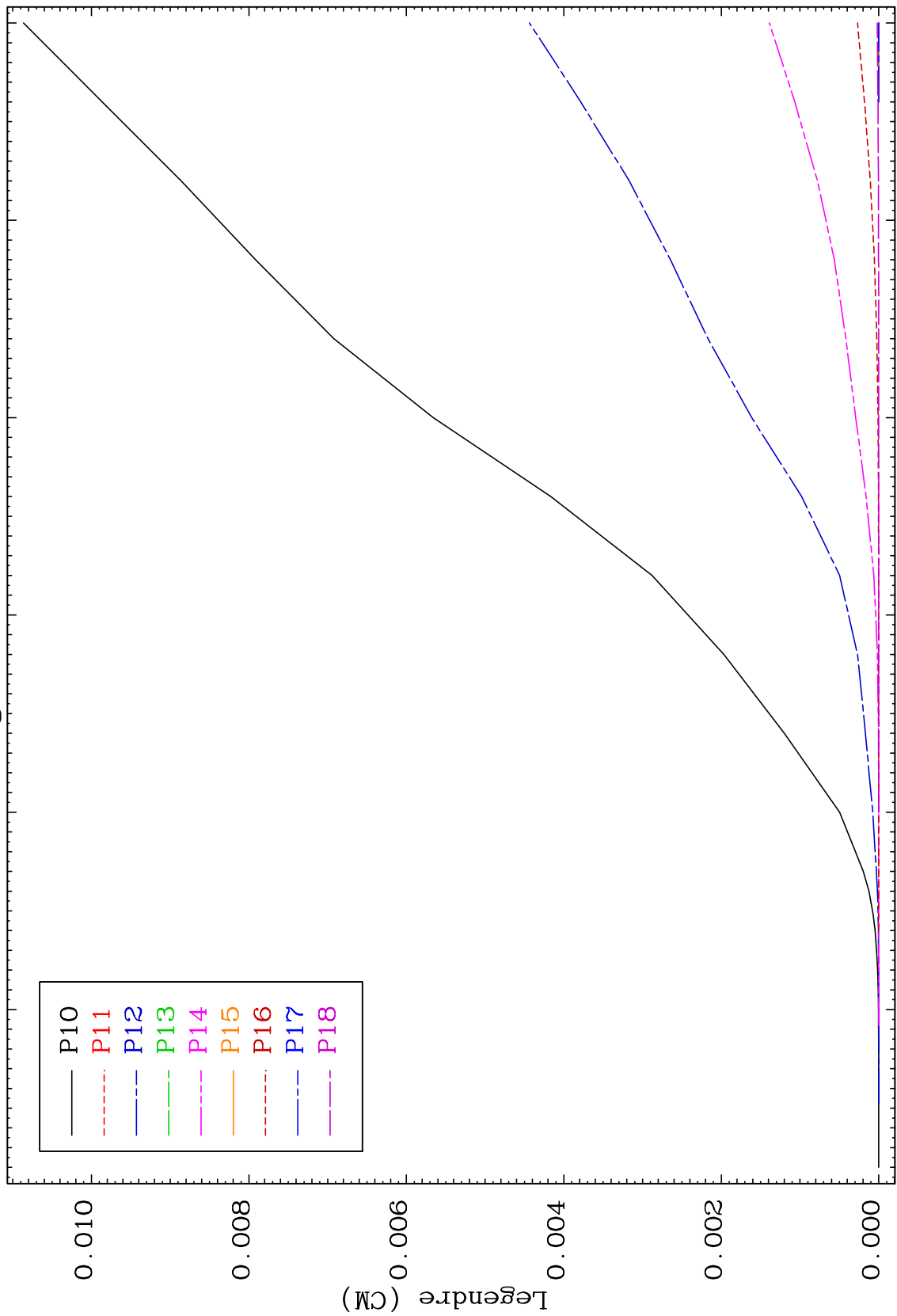




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Elastic Legendre Coefficients

40-Zr-89



16

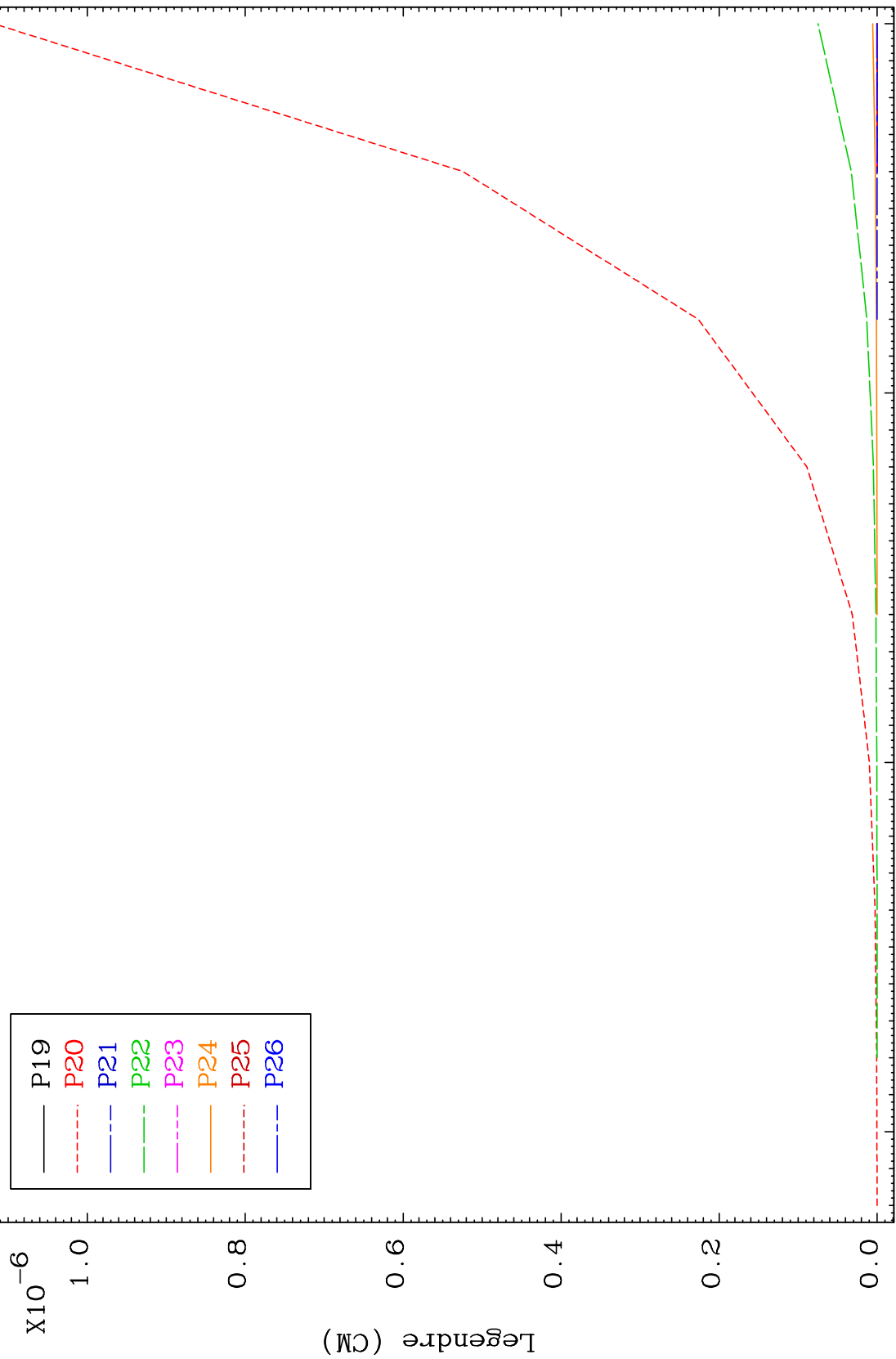
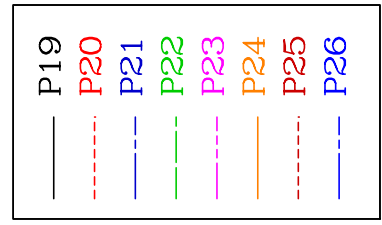
40-Zr-89

Incident Energy (MeV)

MAT 4023

Elastic Legendre Coefficients

40-Zr-89



17

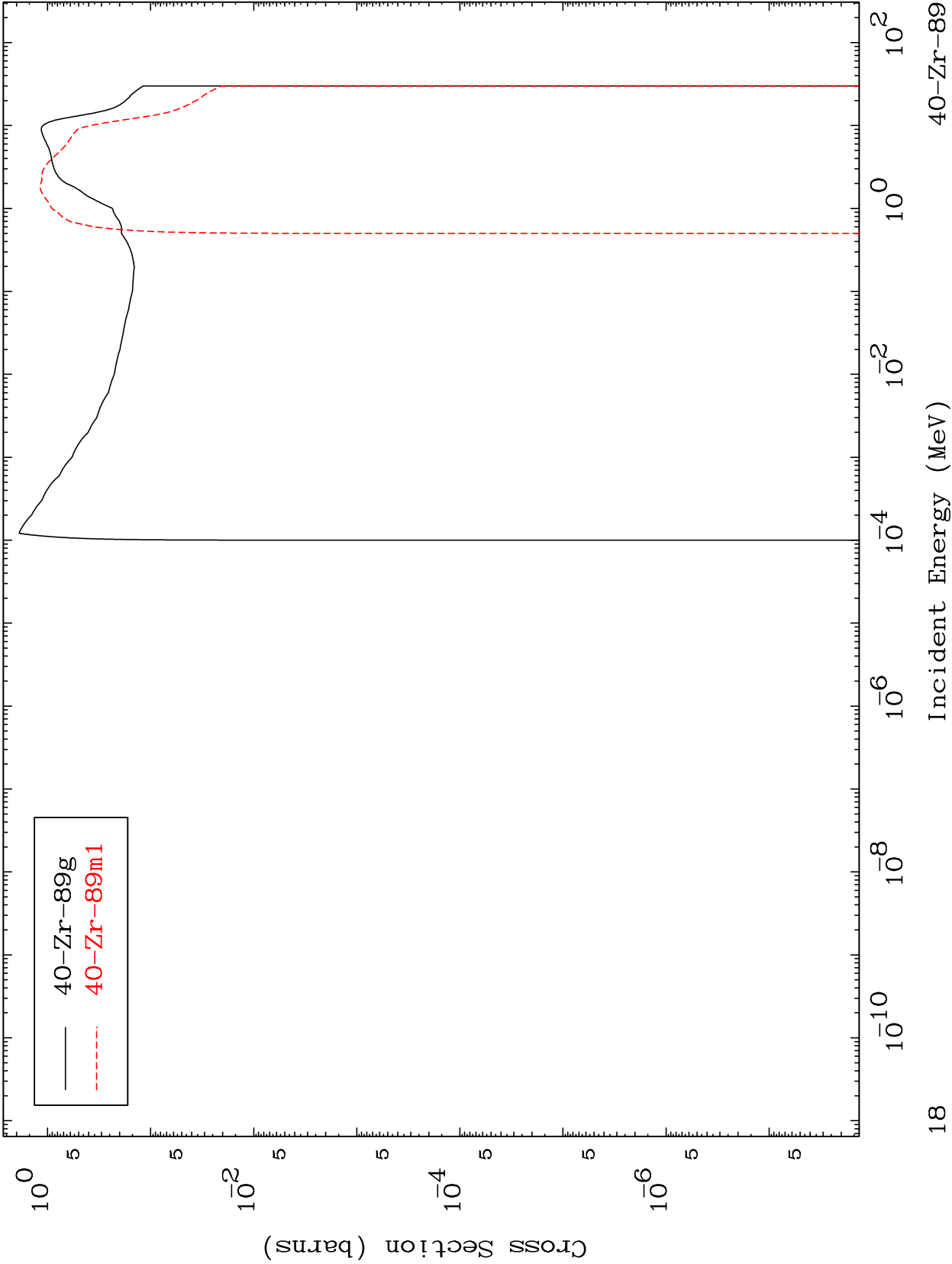
Incident Energy (MeV)

40-Zr-89

MAT 4023

40-Zr-89

Inelastic  
Radionuclide Production Cross Section

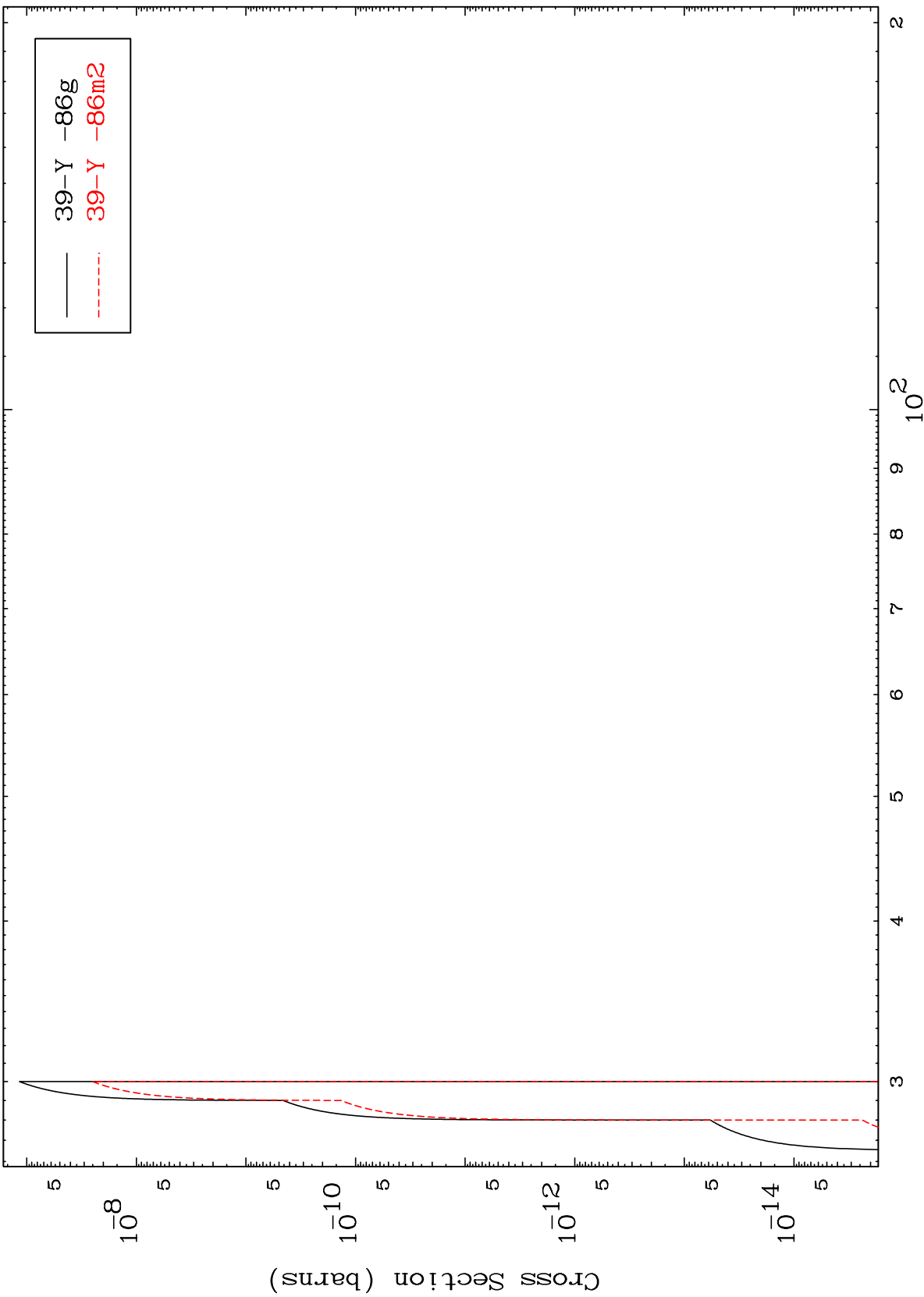


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(n,2n) d

40-Zr-89

Radionuclide Production Cross Section



19

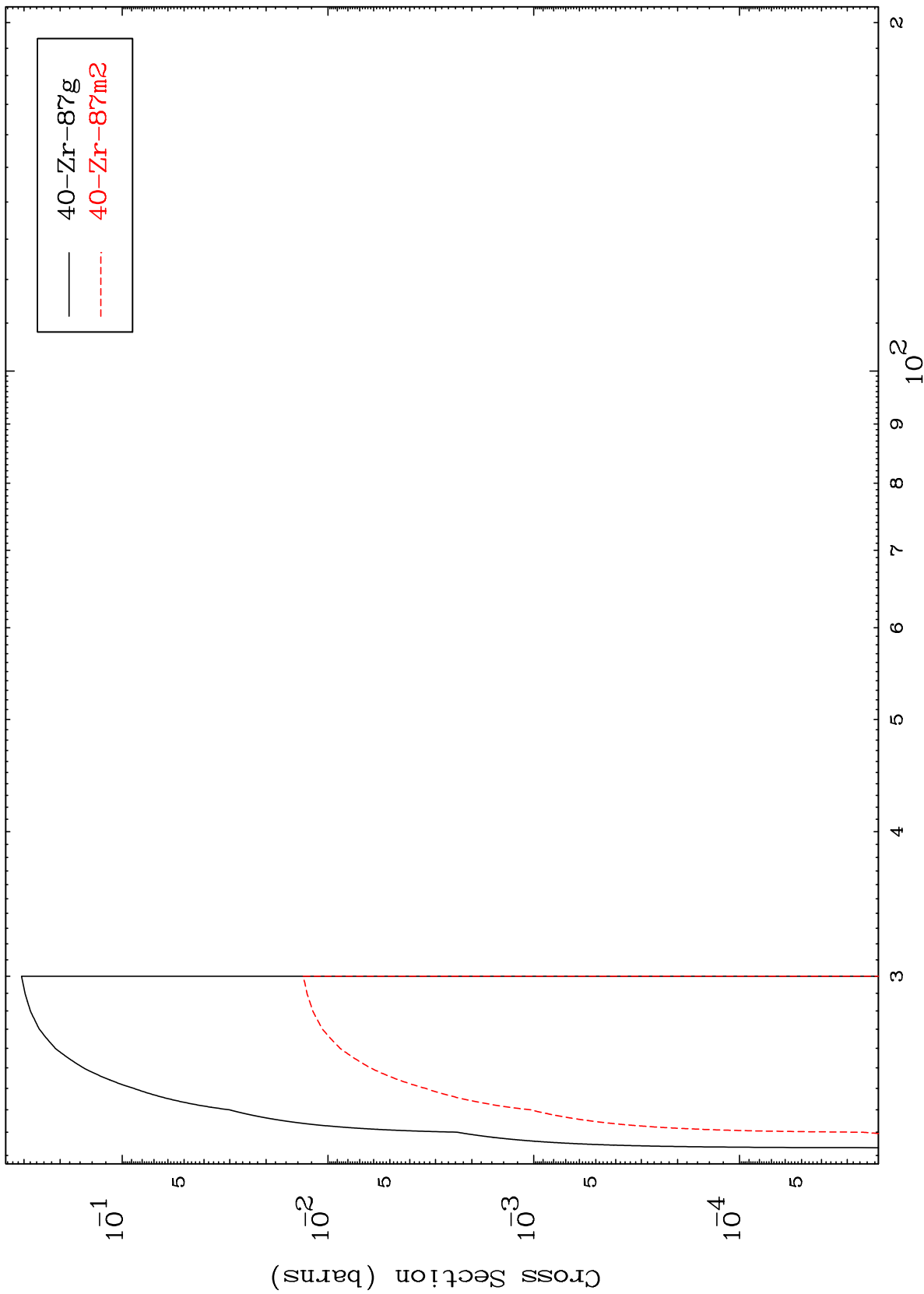
Incident Energy (MeV)

40-Zr-89

MAT 4023

40-Zr-89

(n,3n)  
Radionuclide Production Cross Section



20

Incident Energy (MeV)

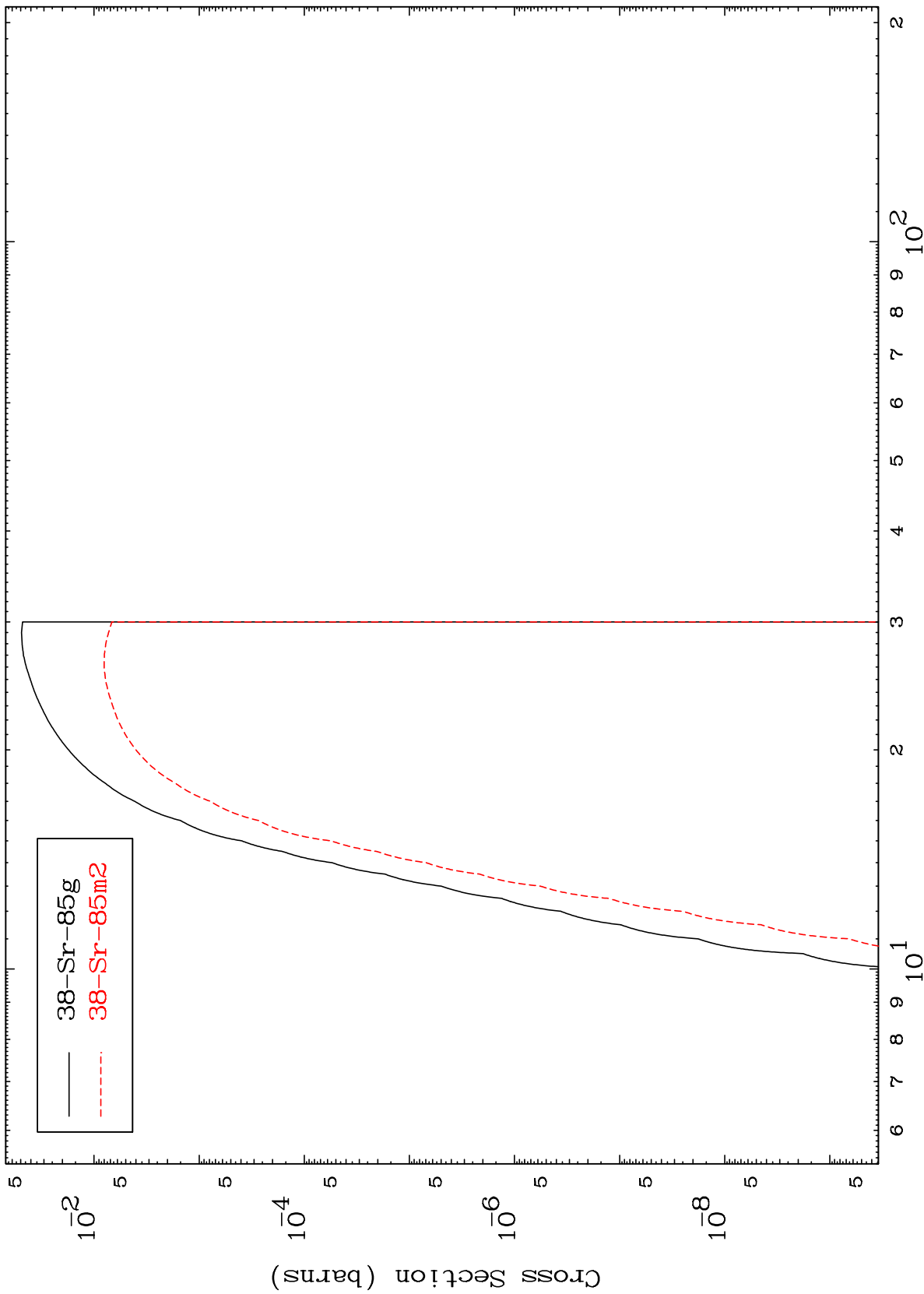
40-Zr-89

MAT 4023

$(n, n') \alpha$

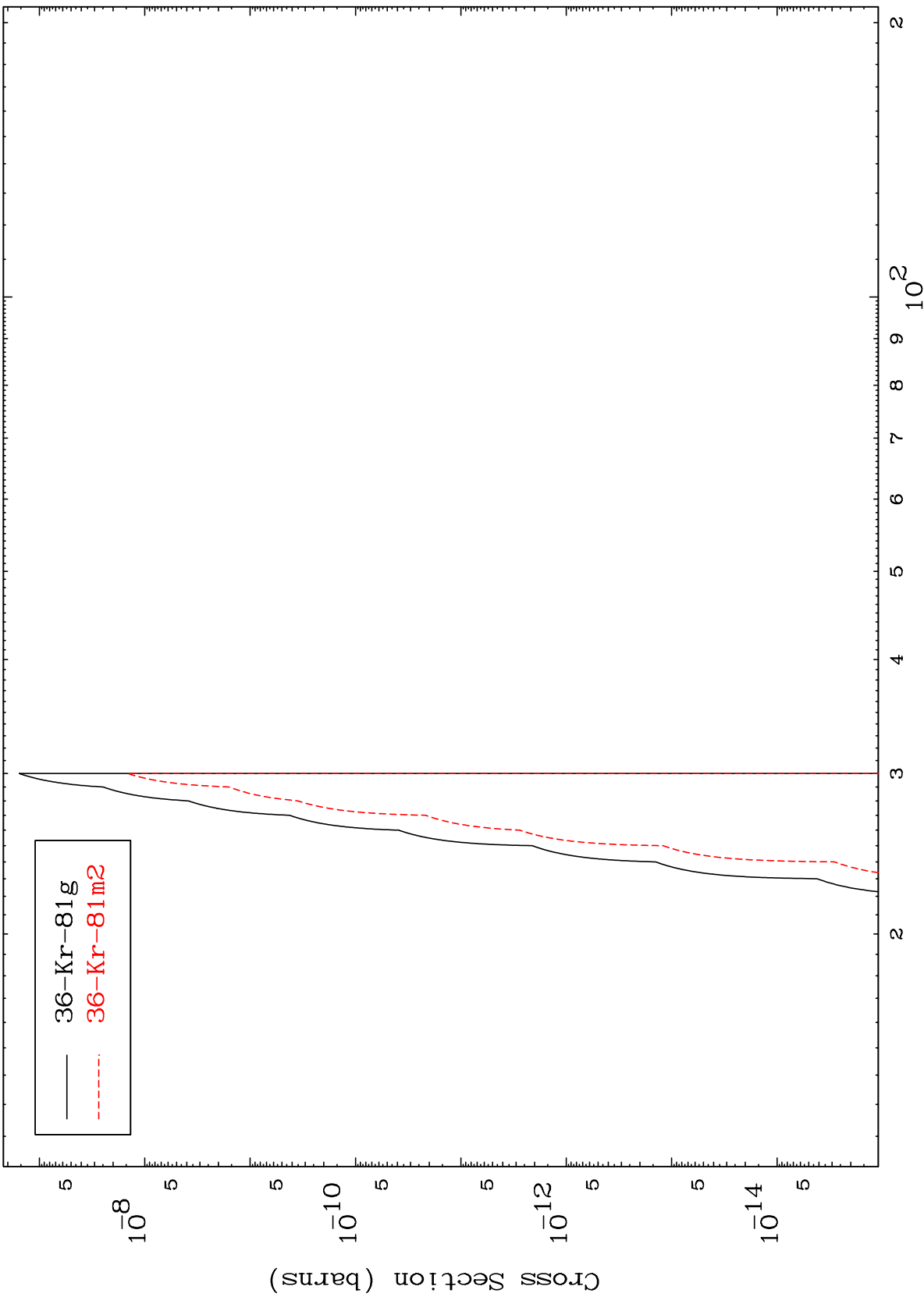
40-Zr-89

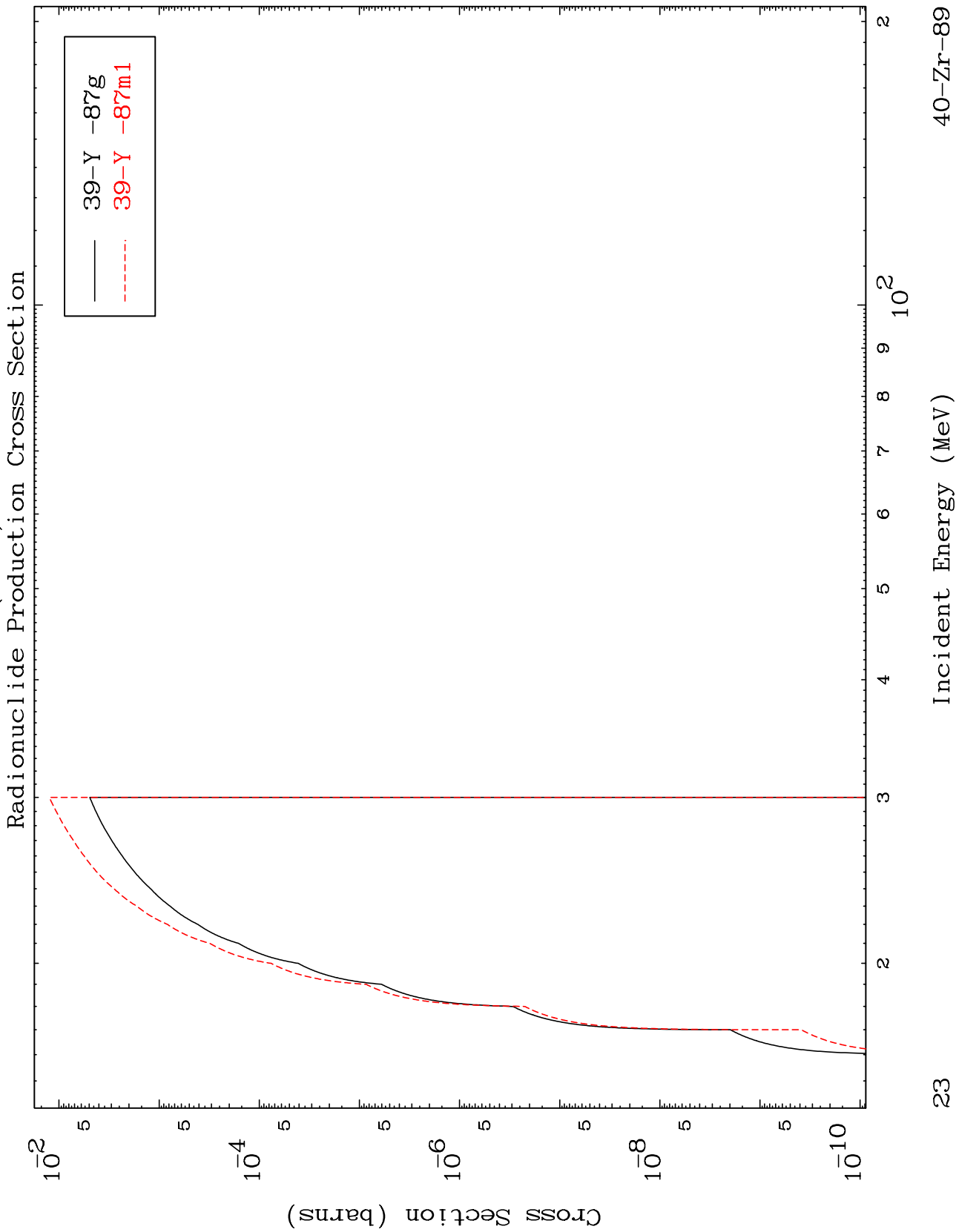
Radionuclide Production Cross Section



— 38-Sr-85g  
- - - 38-Sr-85m2

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





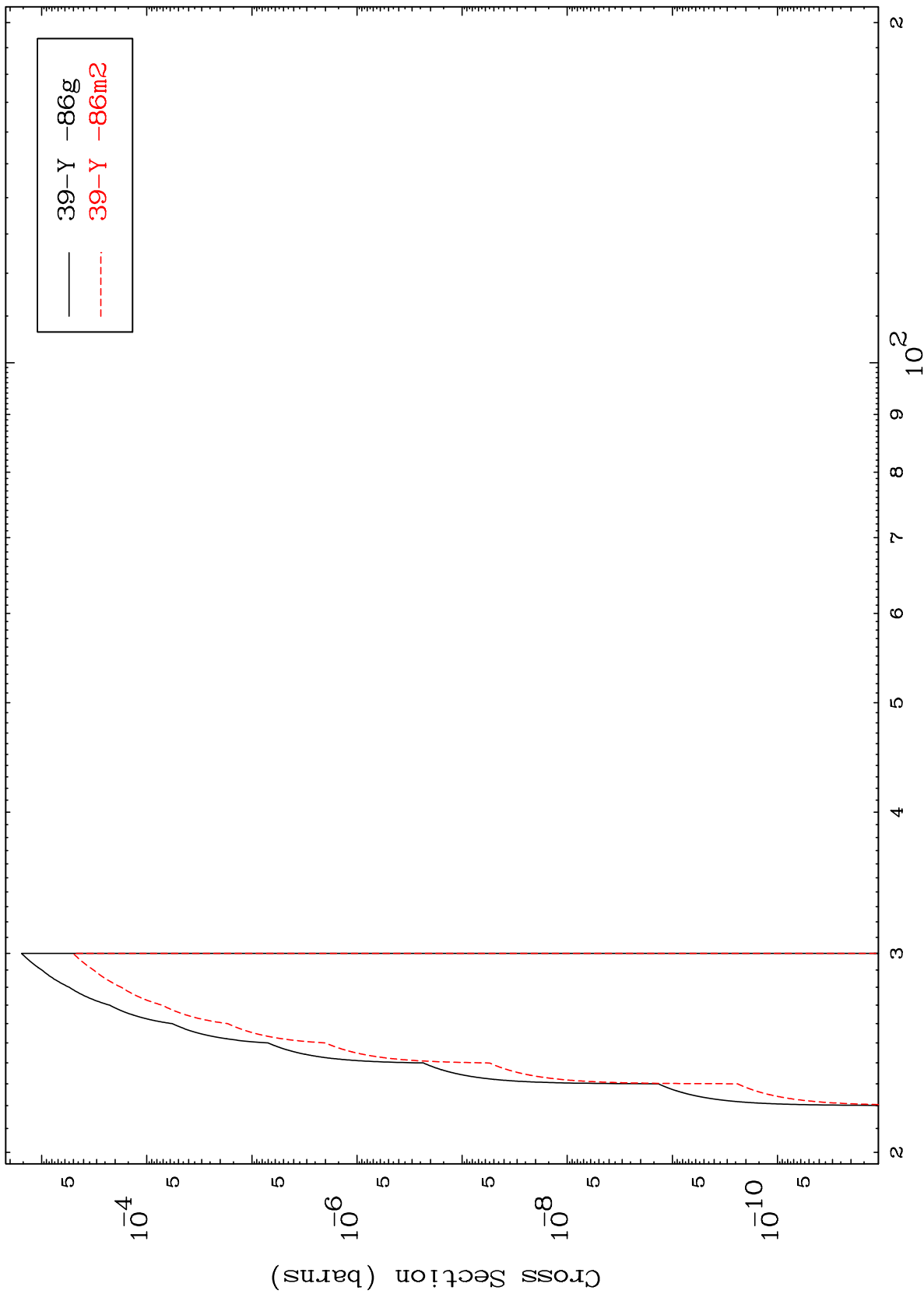


MAT 4023

(n,n') t

40-Zr-89

Radionuclide Production Cross Section

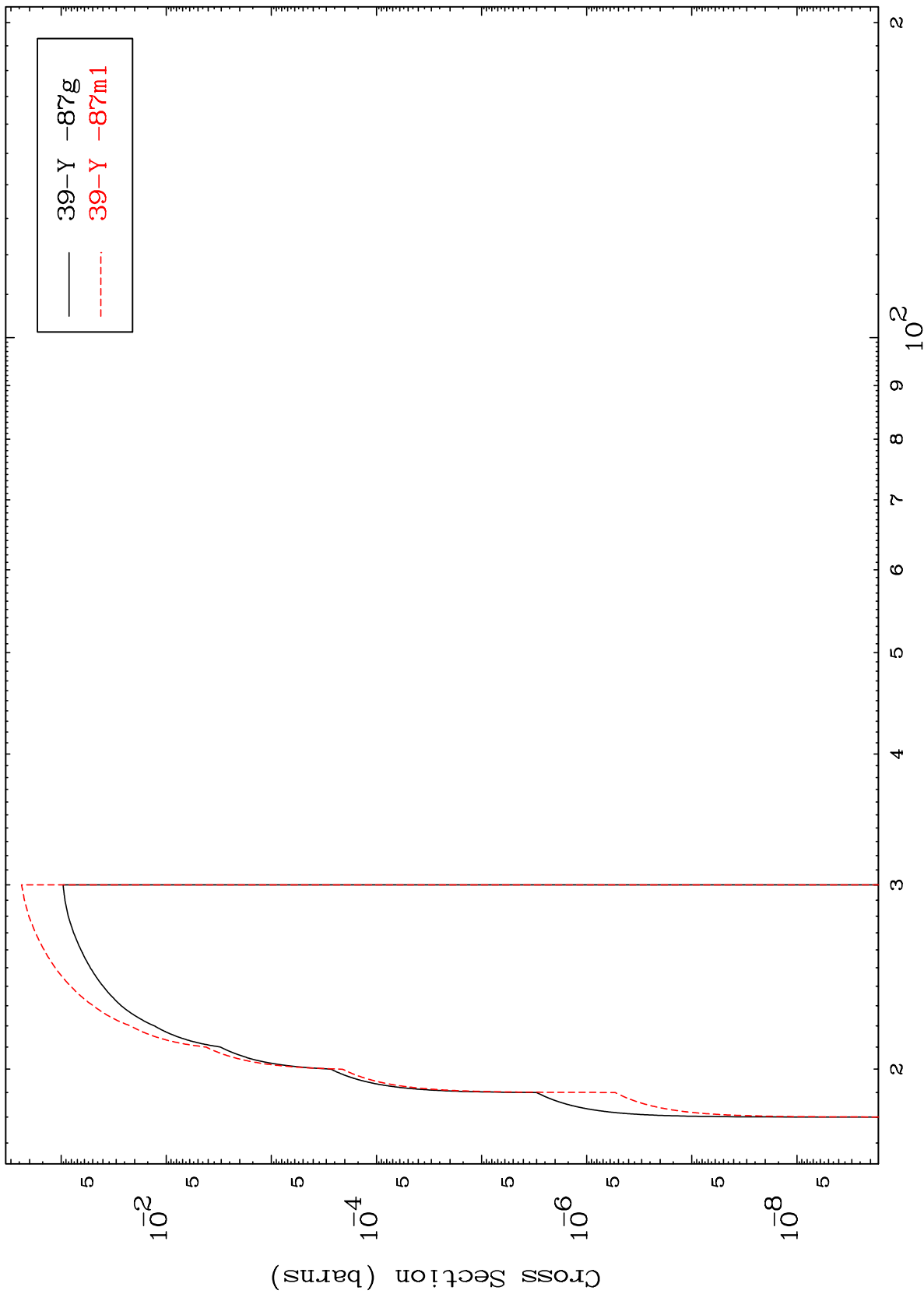


24

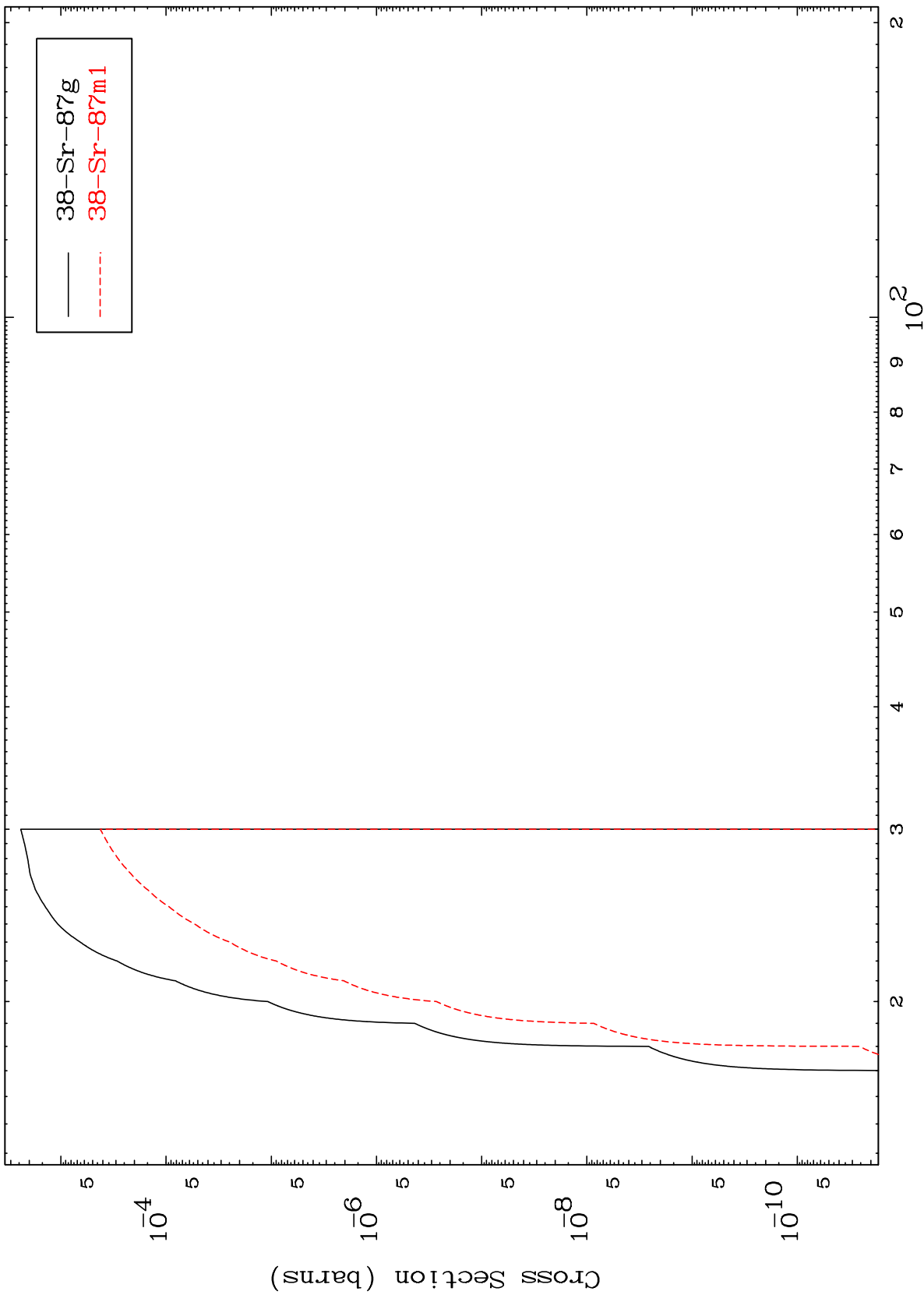
Incident Energy (MeV)

40-Zr-89

(n,2n) p  
Radionuclide Production Cross Section



Radionuclide Production Cross Section



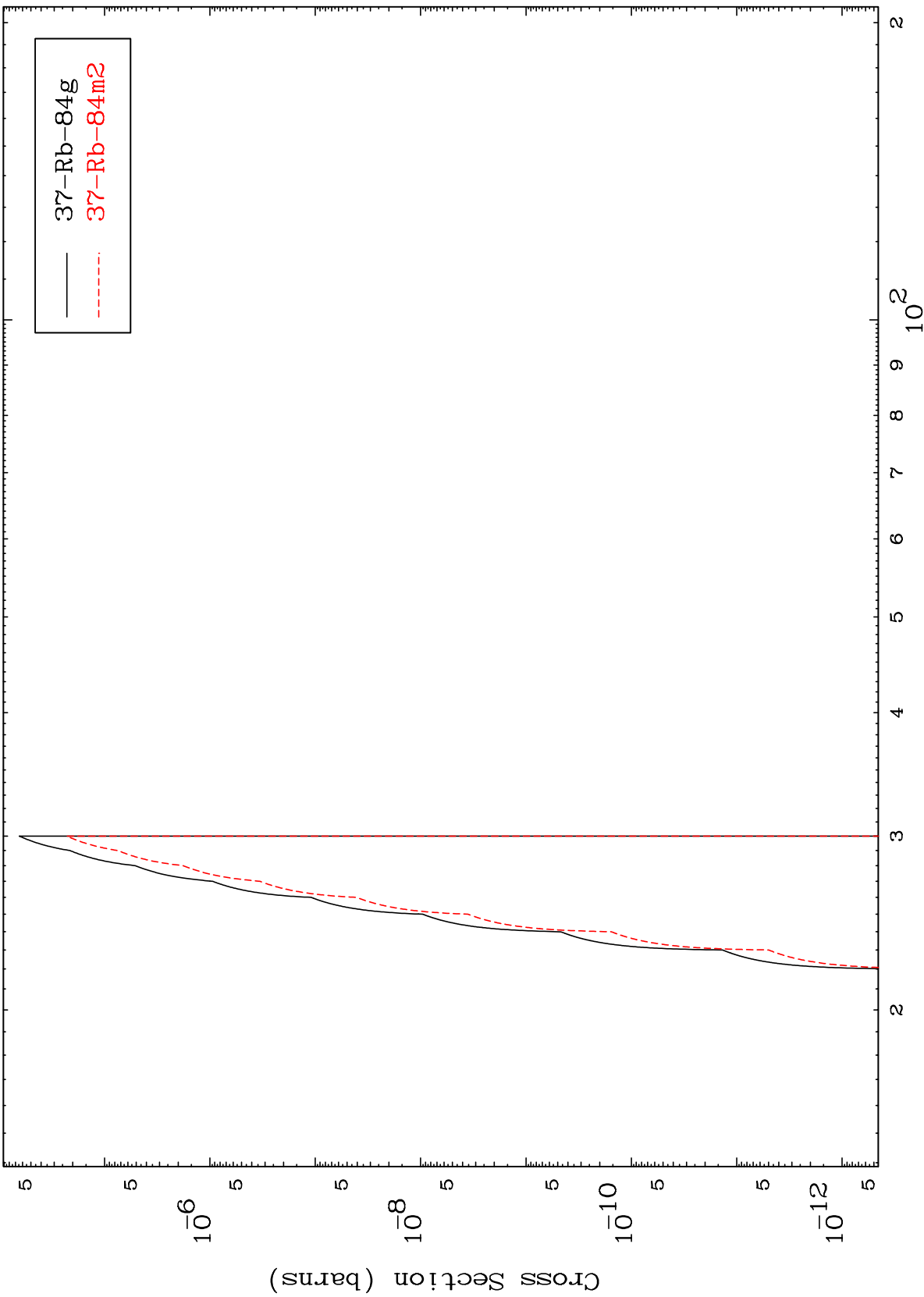
38-Sr-87g  
38-Sr-87m1

MAT 4023

(n,n') p  $\alpha$

40-Zr-89

Radionuclide Production Cross Section



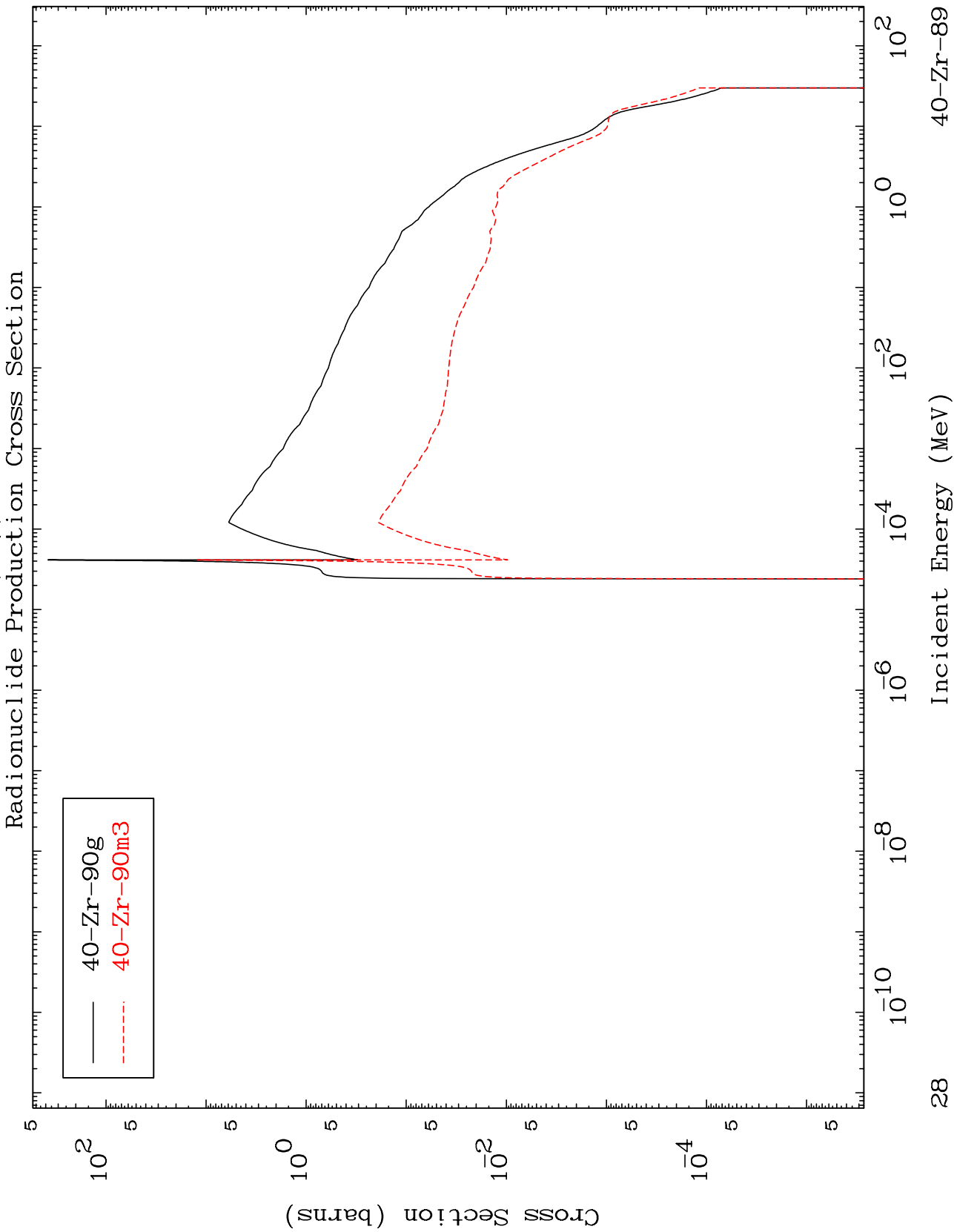
27

Incident Energy (MeV)

40-Zr-89

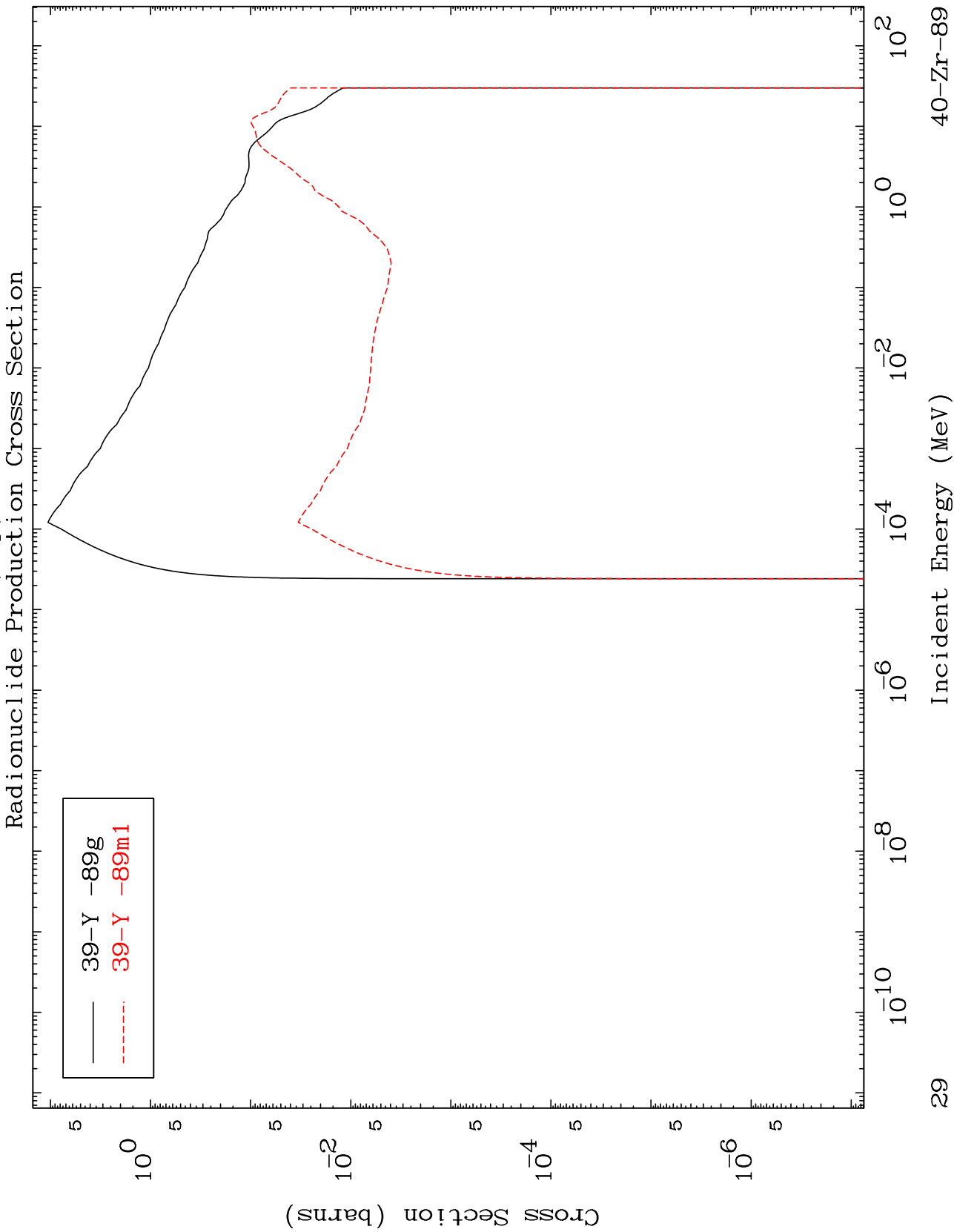
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40-Zr-89



MAT 4023

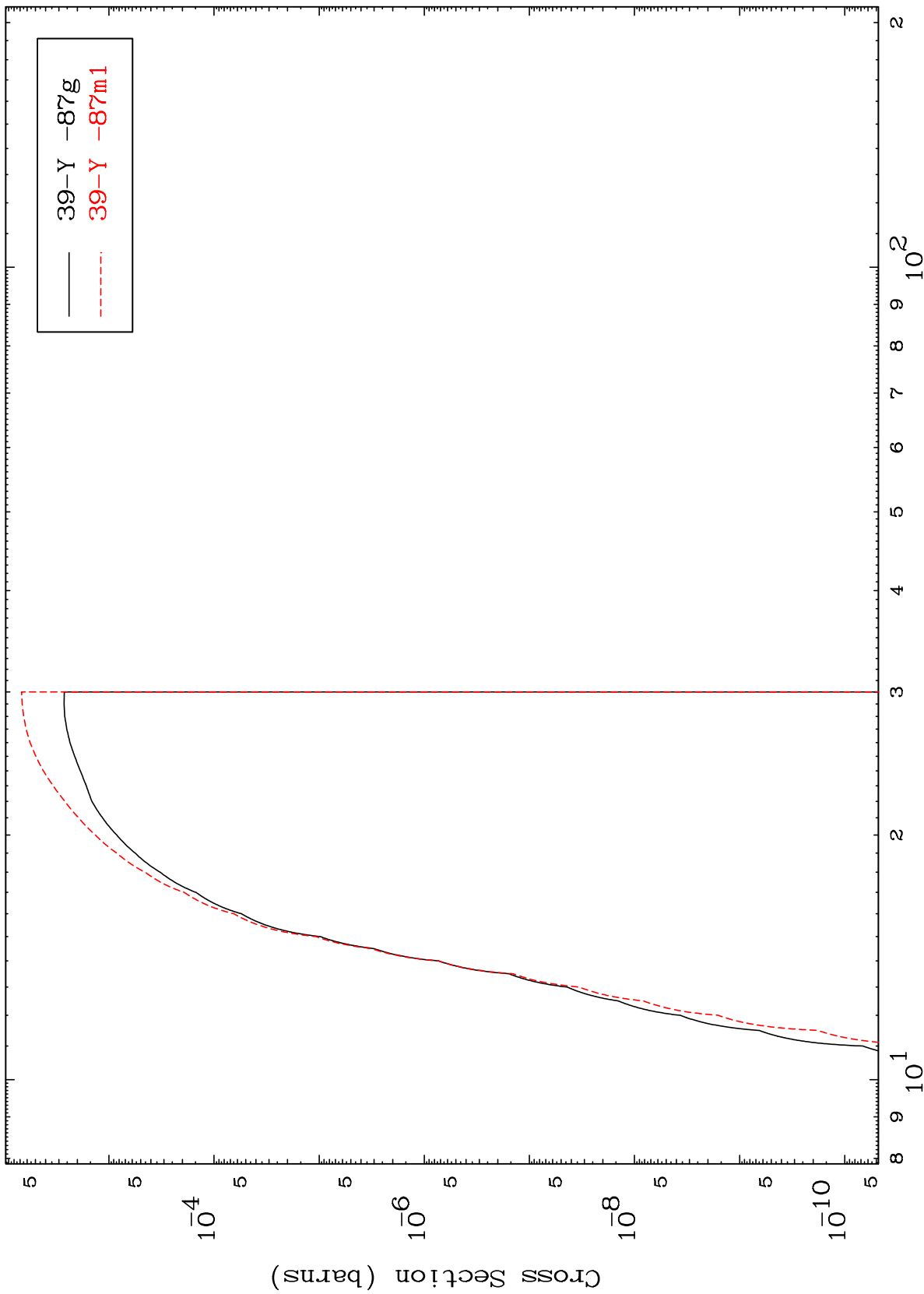
40-Zr-89



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40-Zr-89

(n, t)  
Radionuclide Production Cross Section



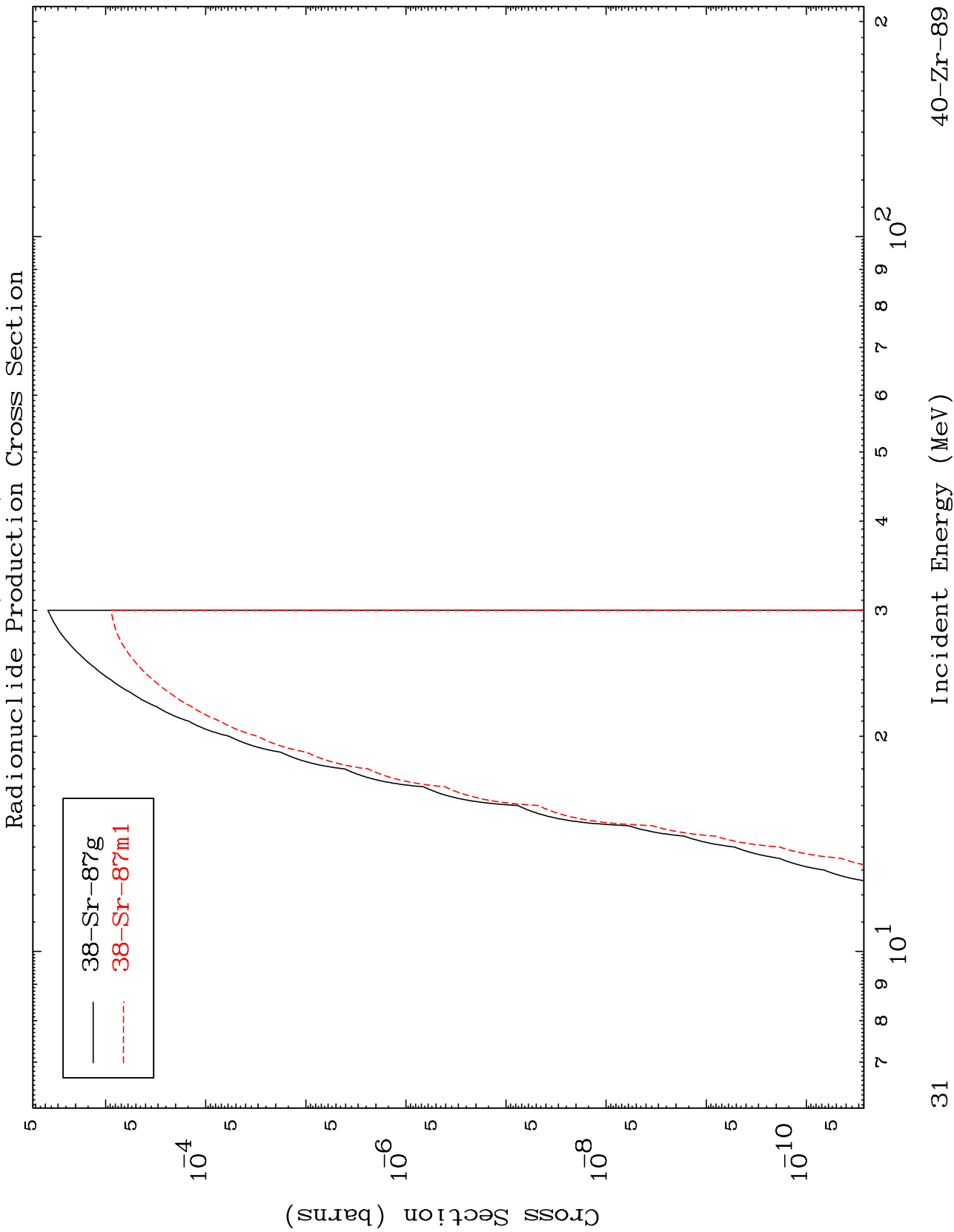
40-Zr-89

Incident Energy (MeV)

30

MAT 4023

40-Zr-89



— 38-Sr-87g  
- - - 38-Sr-87m1

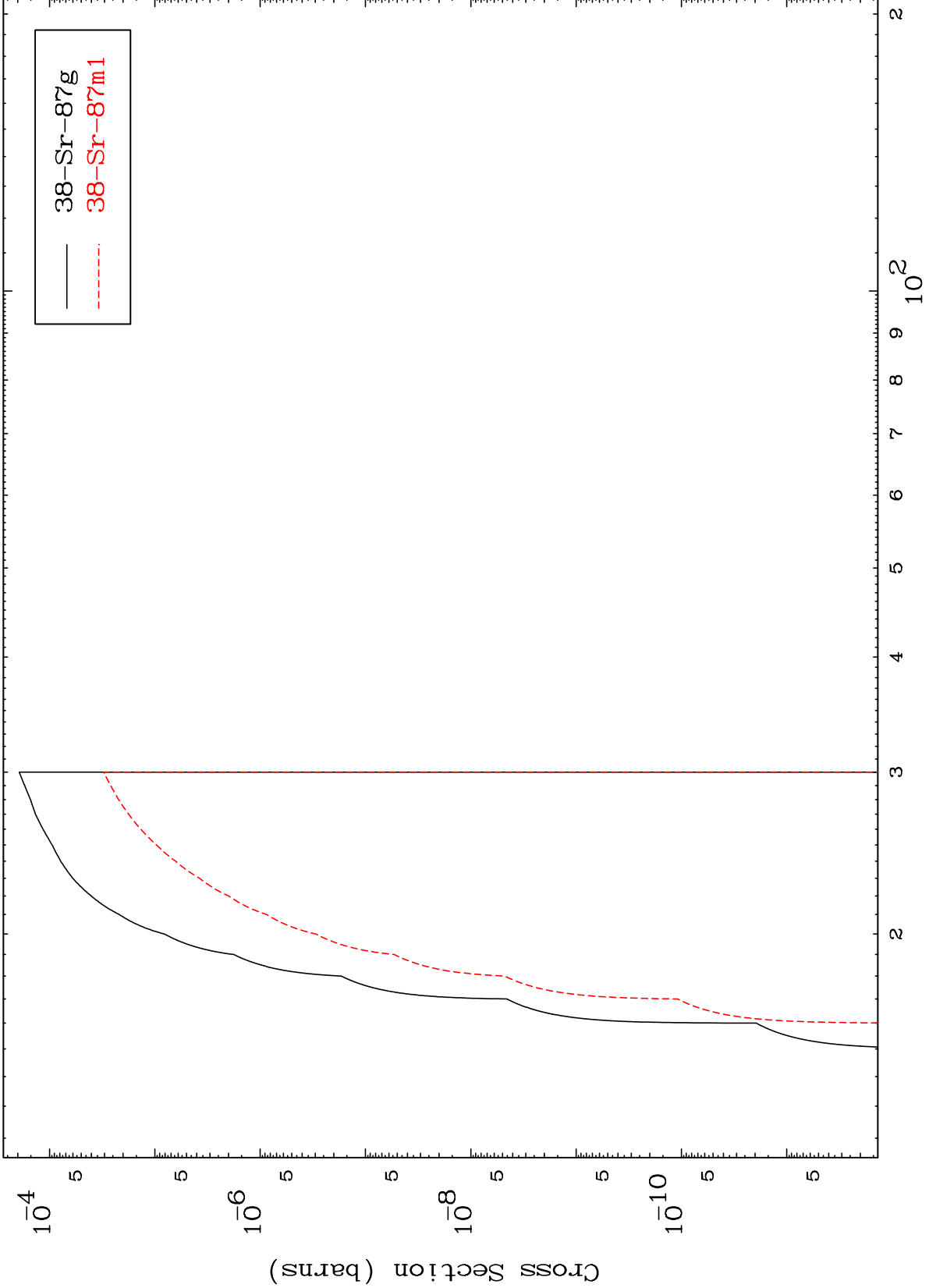


MAT 4023

(n,p) d

40-Zr-89

Radionuclide Production Cross Section



32

Incident Energy (MeV)

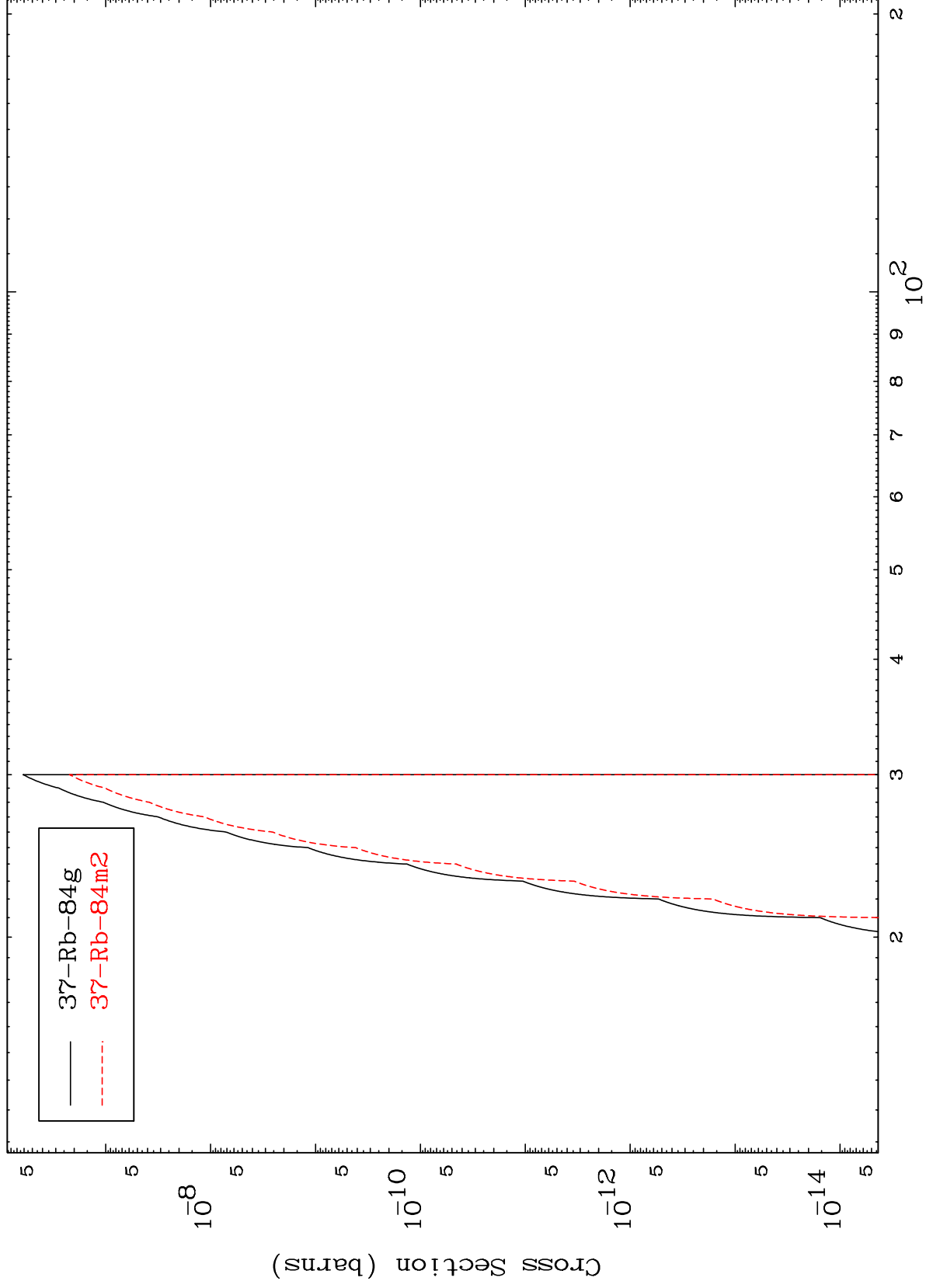
40-Zr-89

MAT 4023

(n,d)  $\alpha$

40-Zr-89

Radionuclide Production Cross Section



Incident Energy (MeV)

40-Zr-89

33