

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

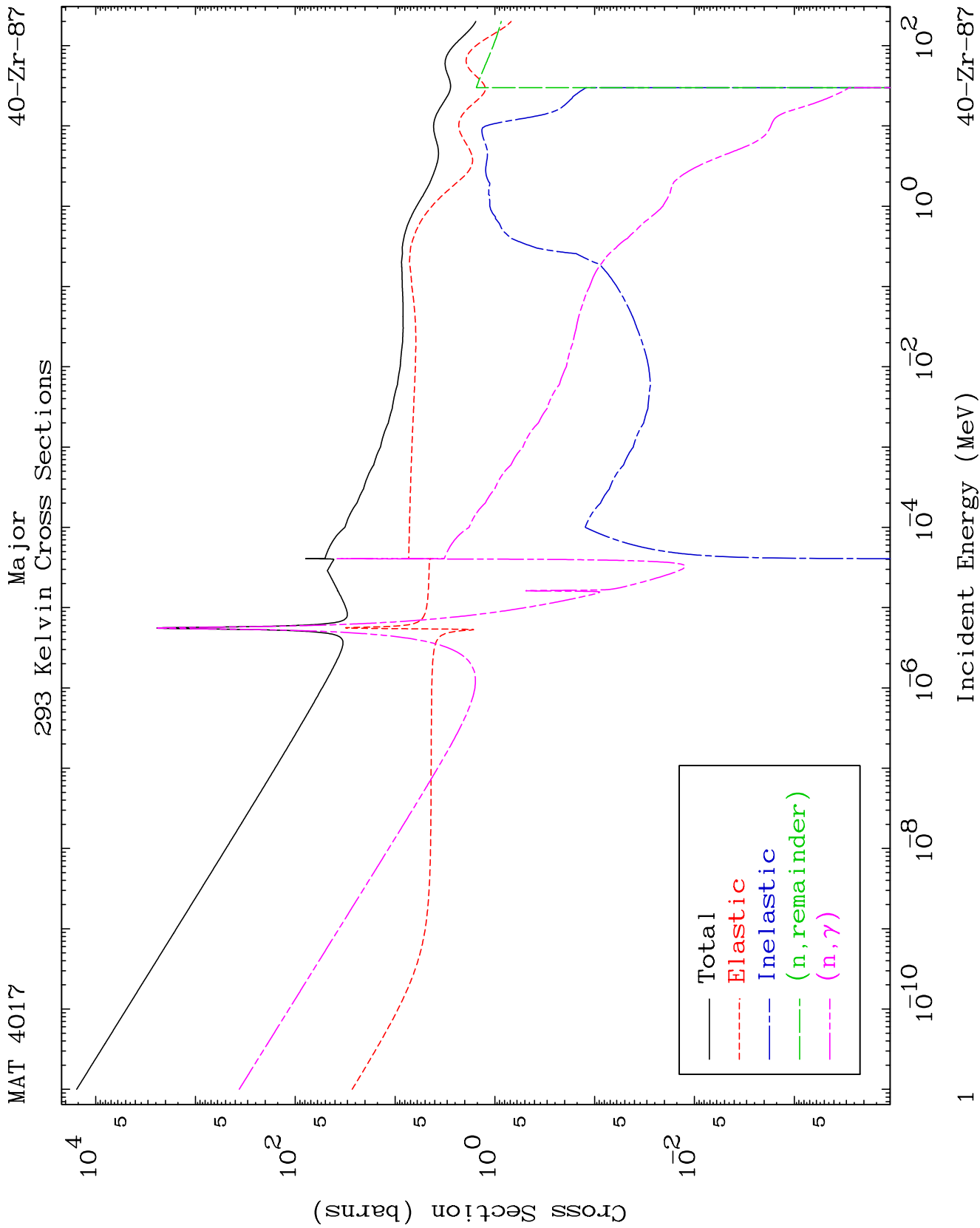
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

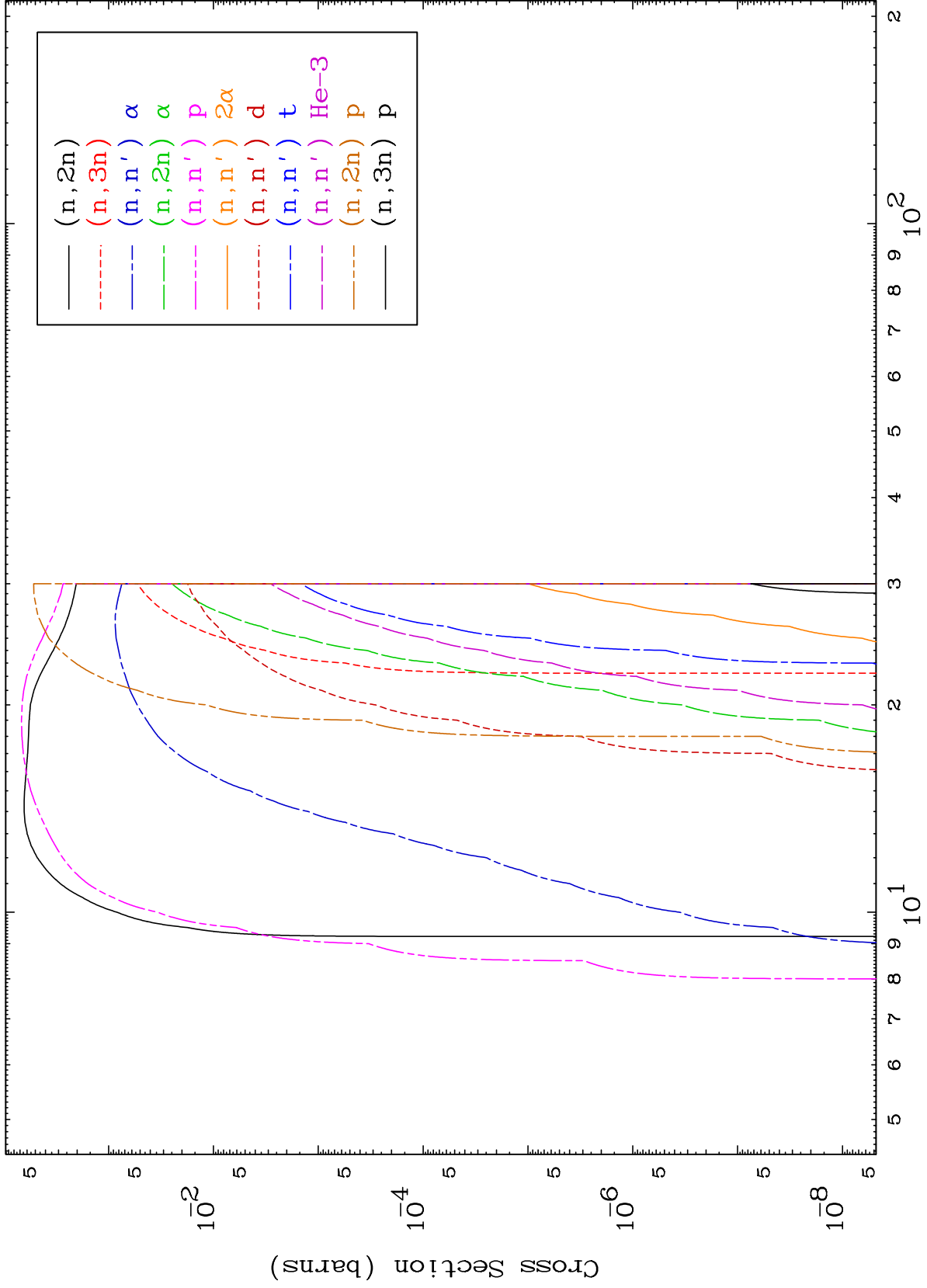
Tele: 925-443-1911

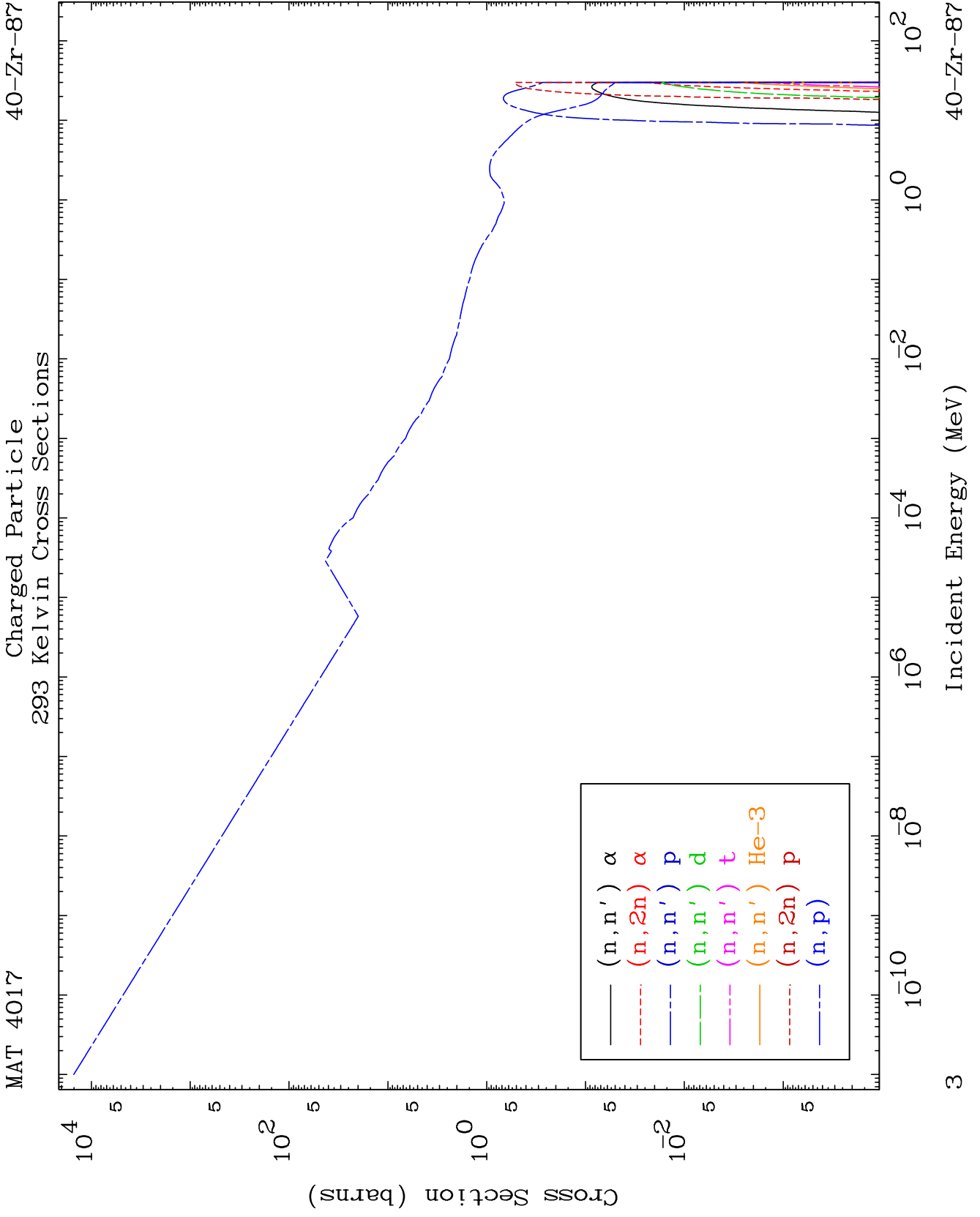
E.Mail:redcullen1@comcast.net

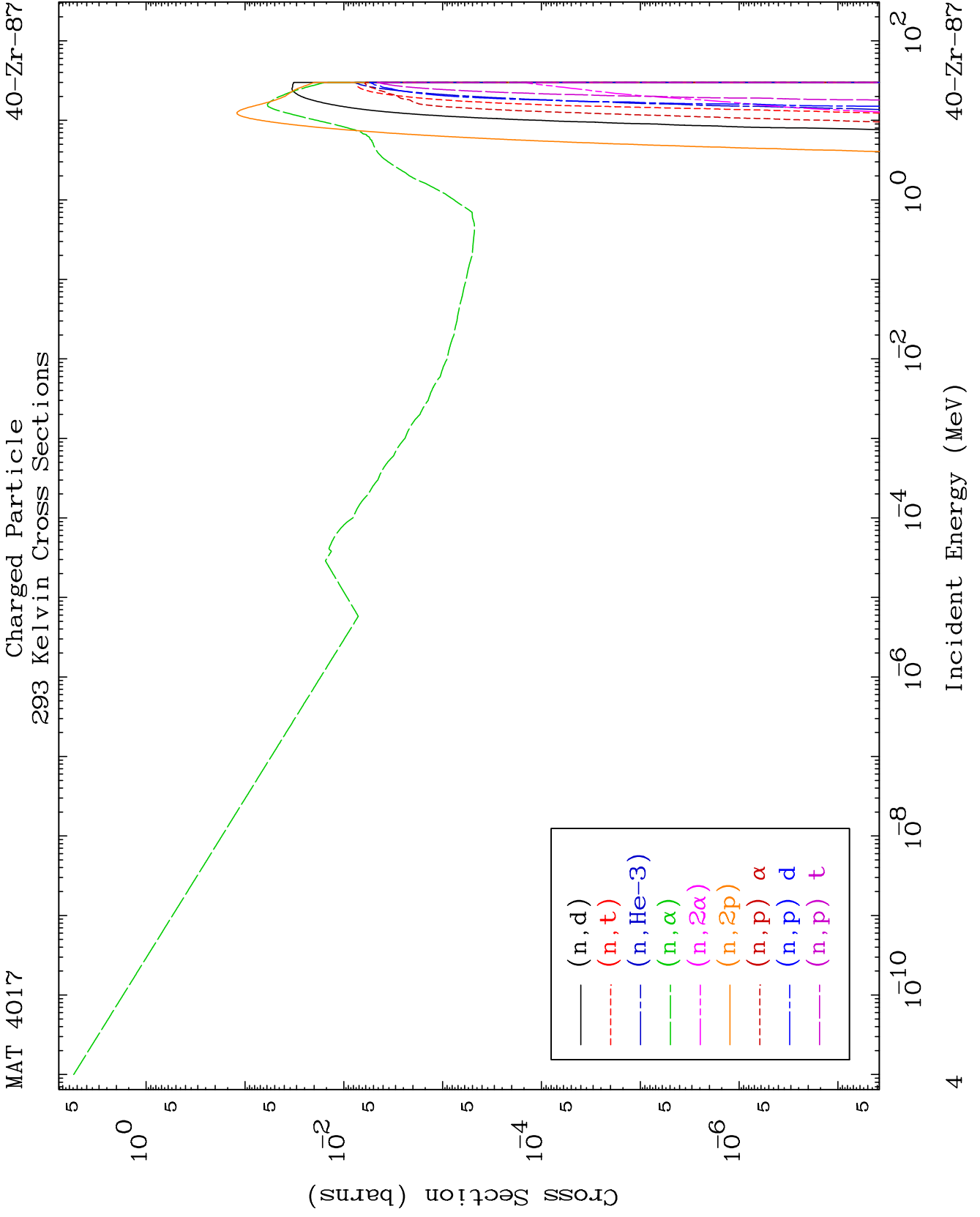
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Press Mouse Button to Start





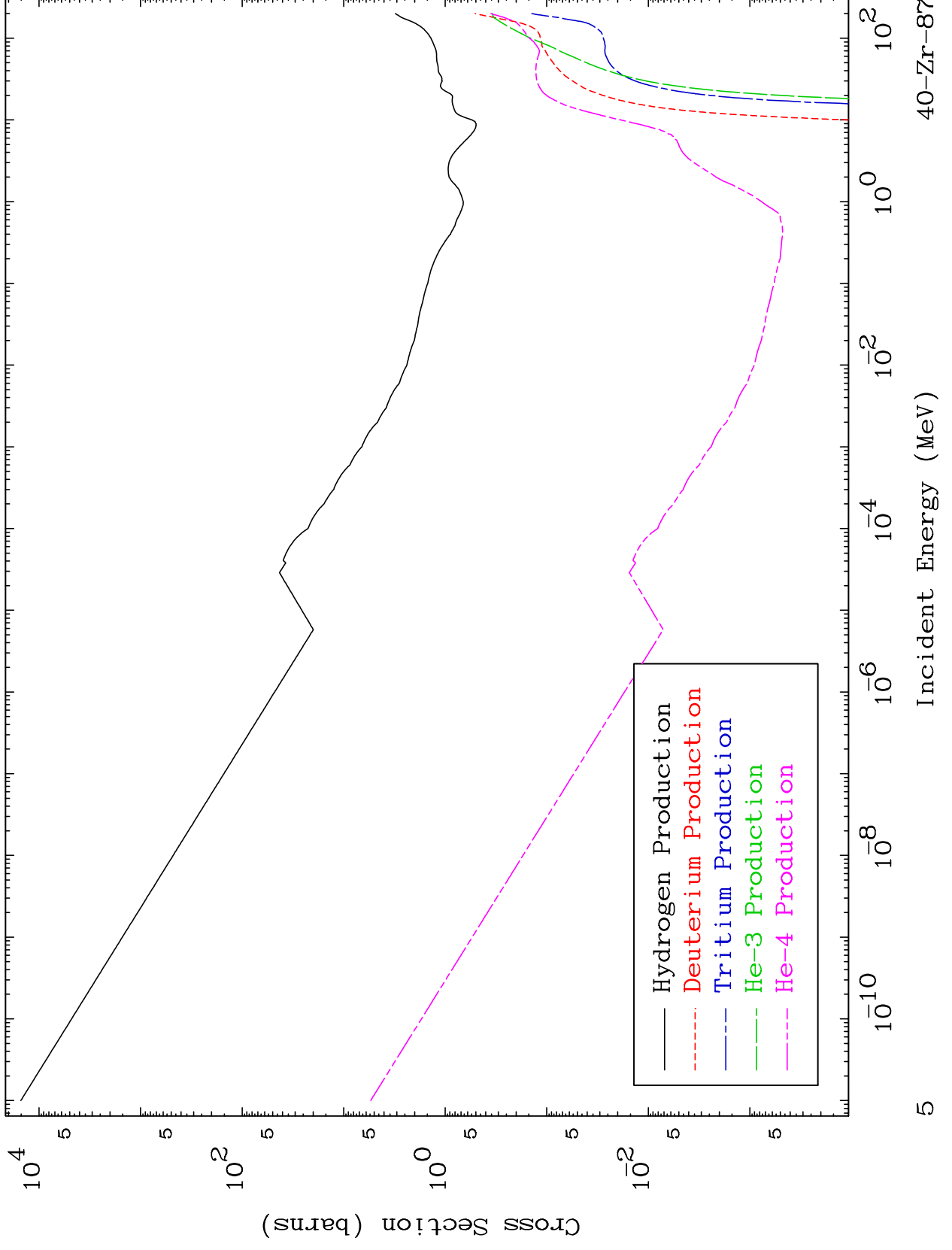




MAT 4017

Particle Production
293 Kelvin Cross Sections

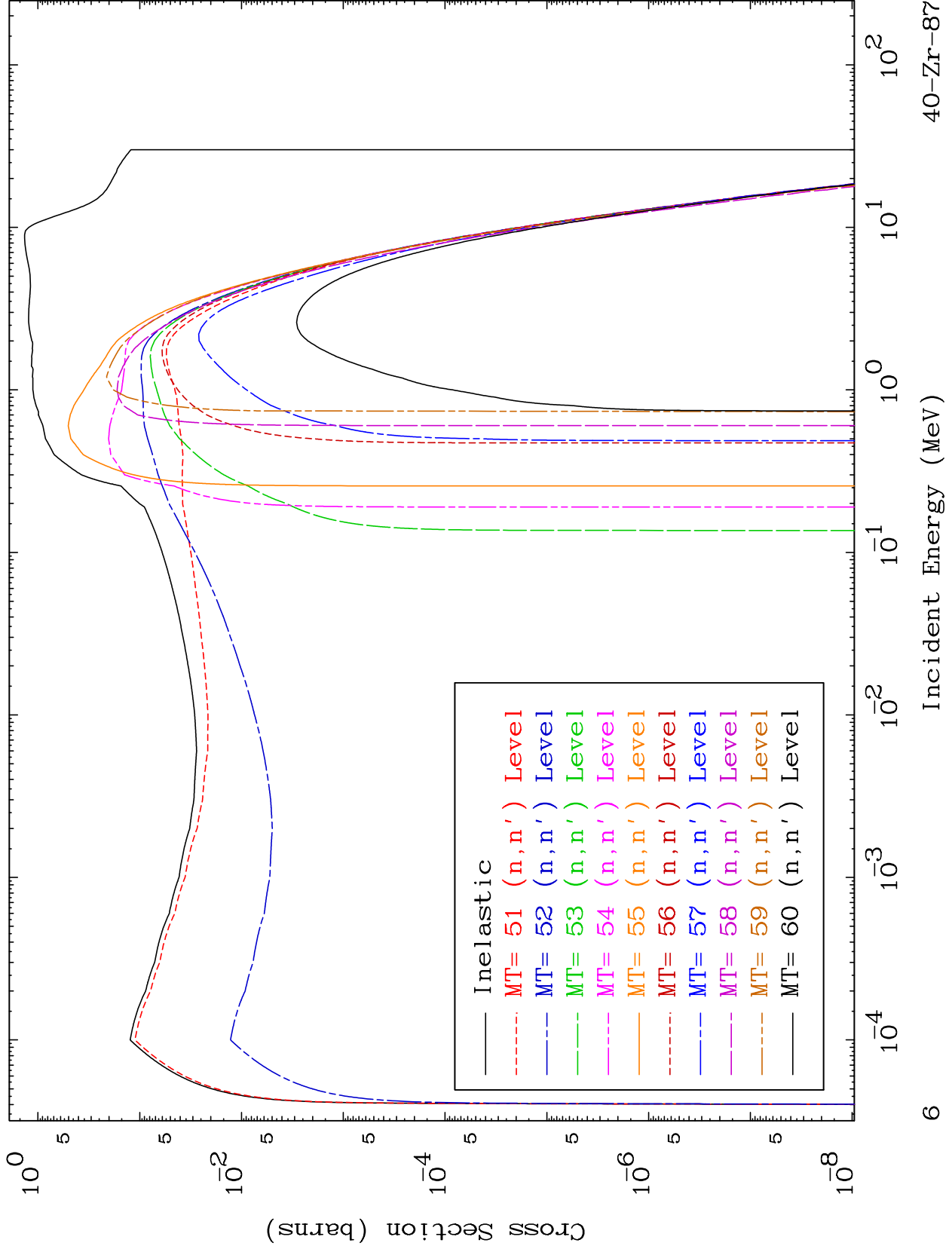
40-Zr-87



MAT 4017

293 Kelvin Cross Sections
(n,n') Level

40-Zr-87

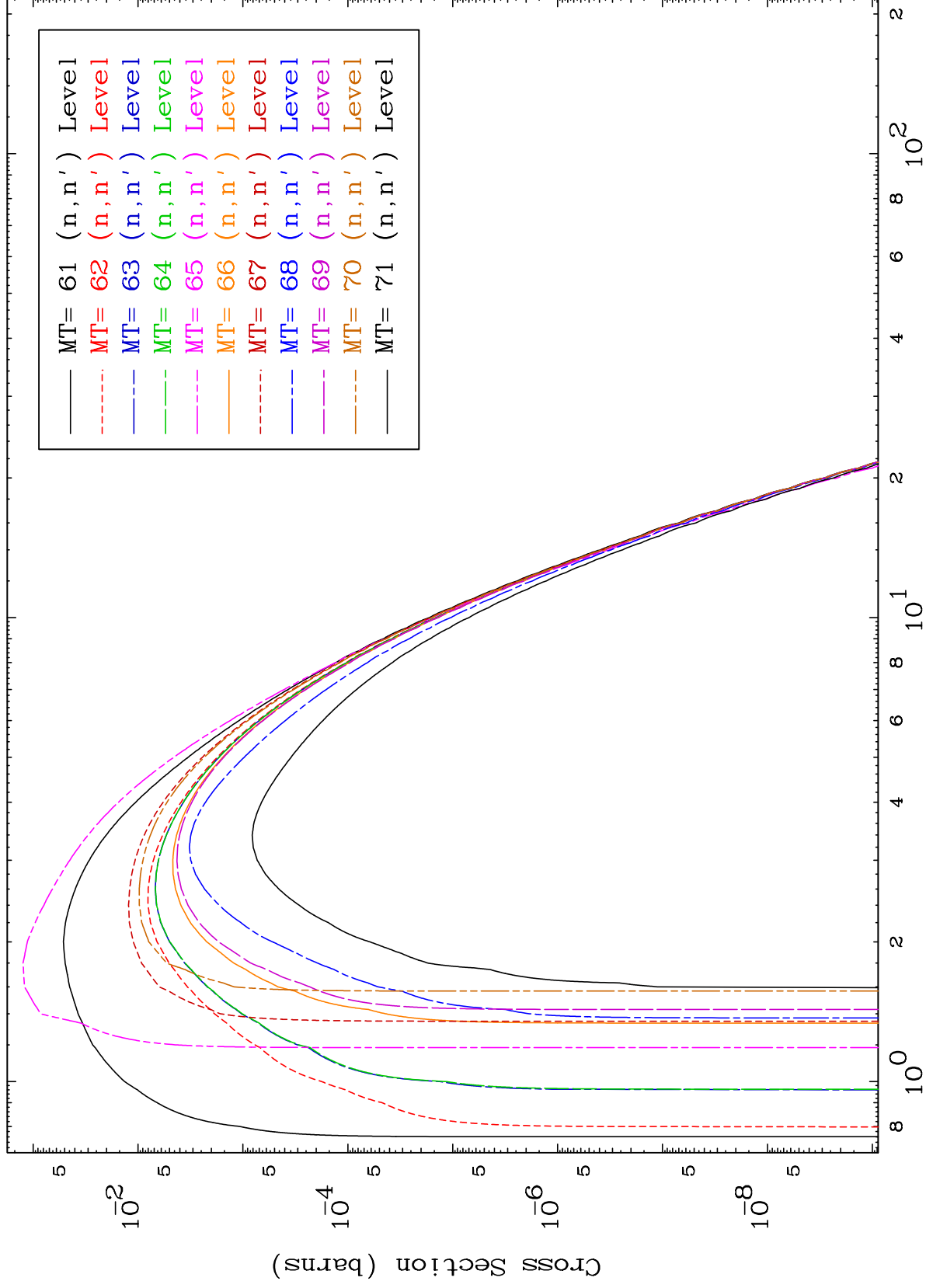


MAT 4017

(n,n') Level

40-Zr-87

293 Kelvin Cross Sections



7

Incident Energy (MeV)

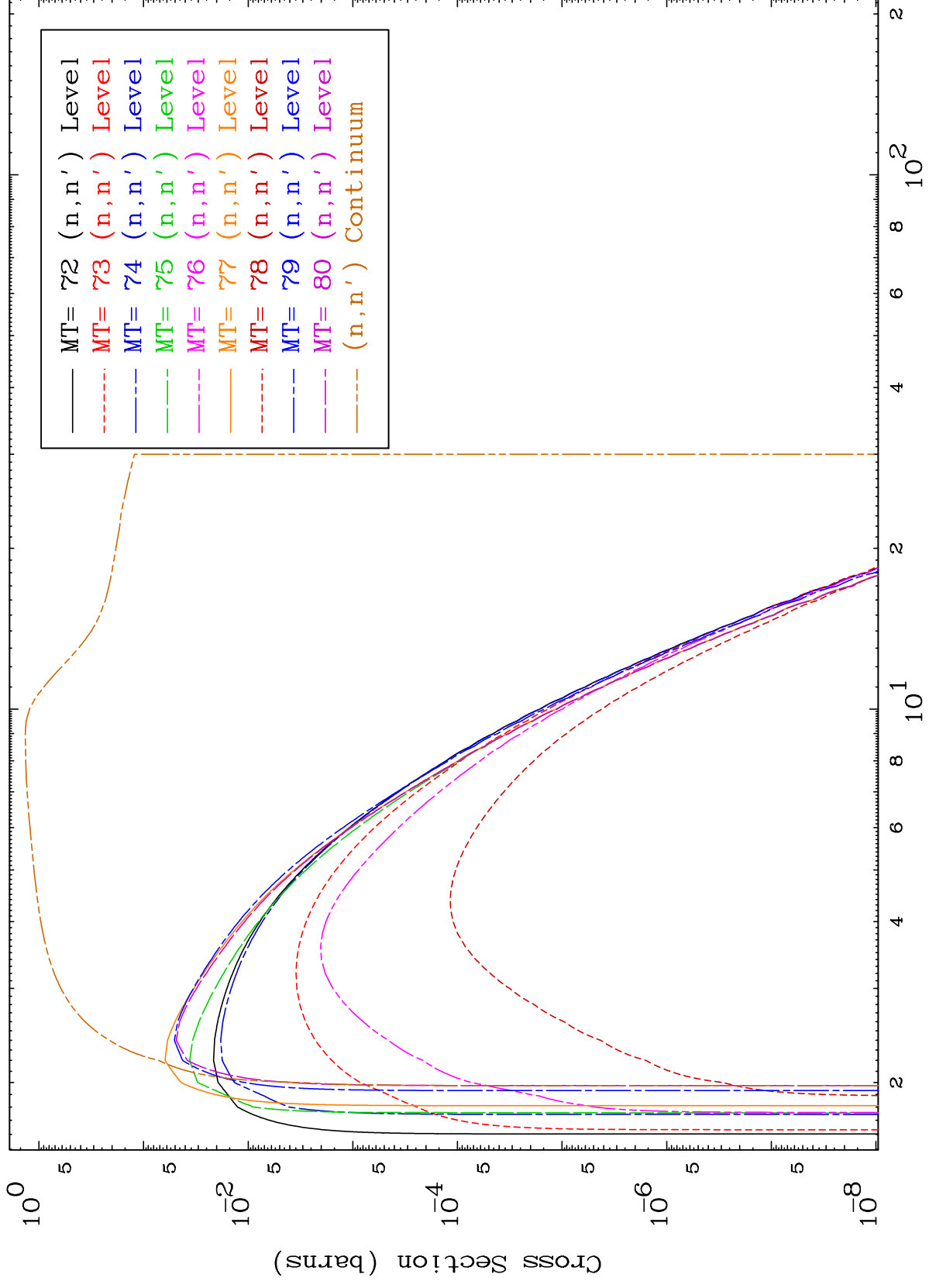
40-Zr-87

MAT 4017

(n,n') Level

40-Zr-87

293 Kelvin Cross Sections



8

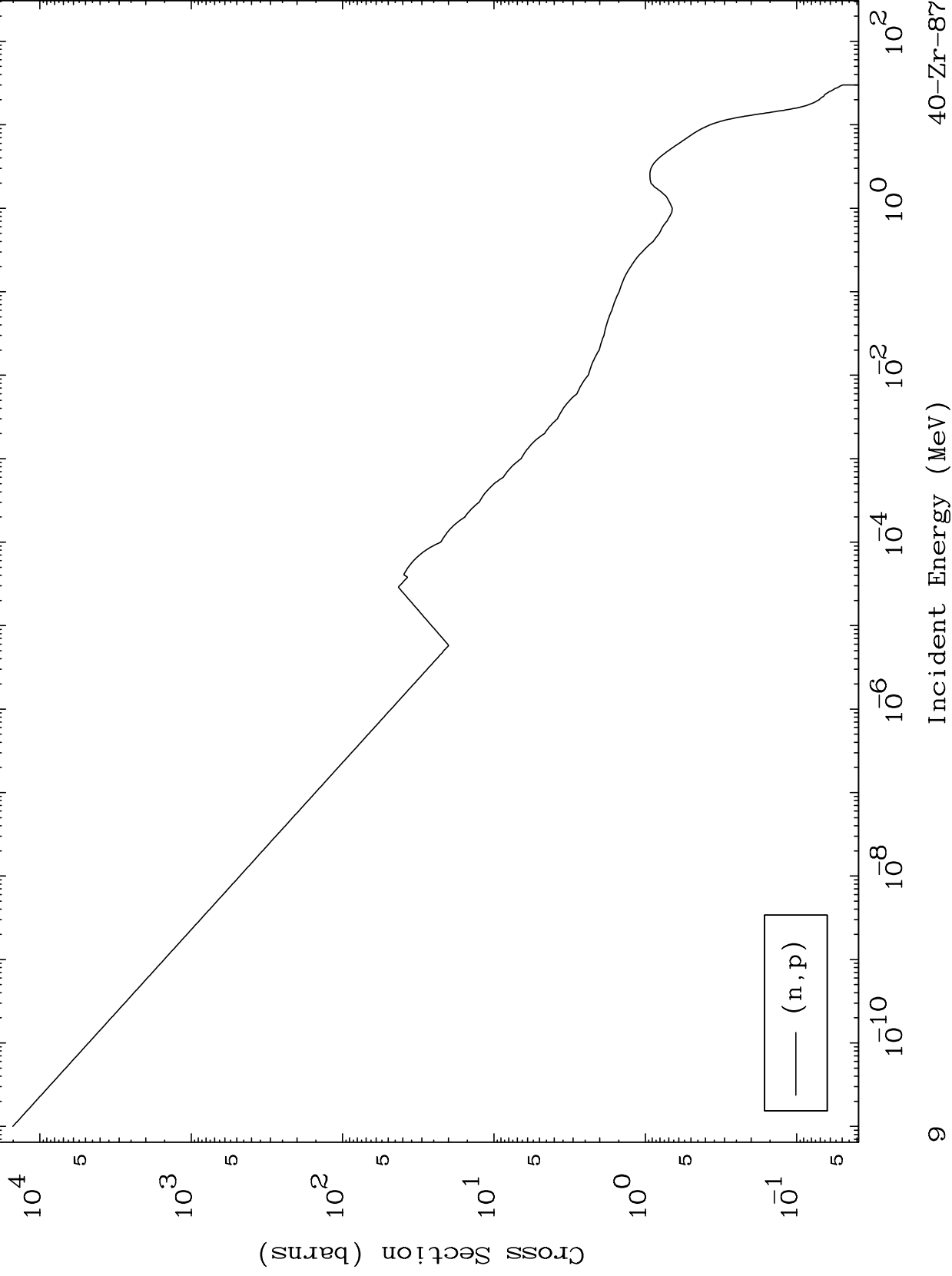
Incident Energy (MeV)

40-Zr-87

MAT 4017

(n,p) Levels
293 Kelvin Cross Sections

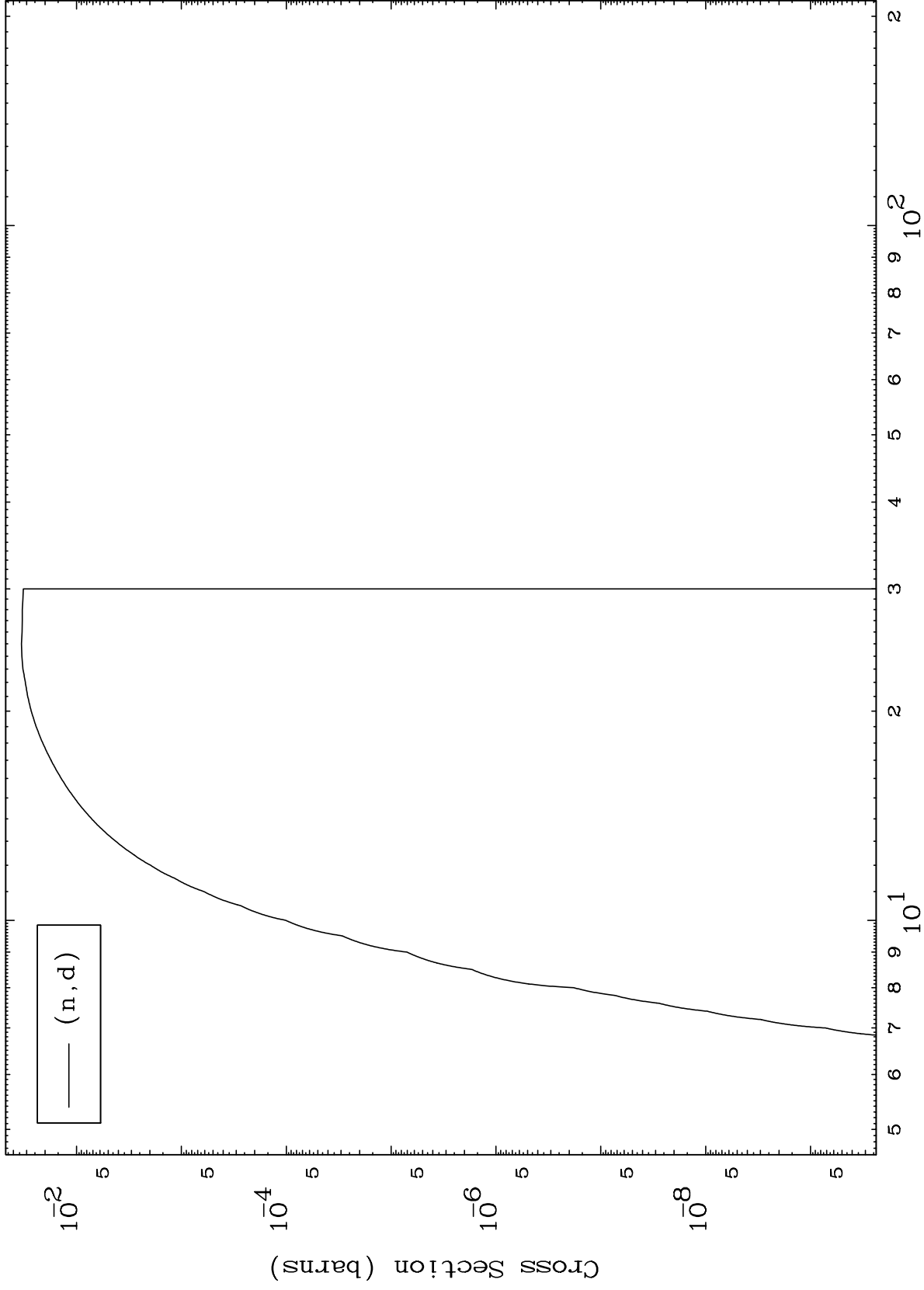
40-Zr-87



MAT 4017

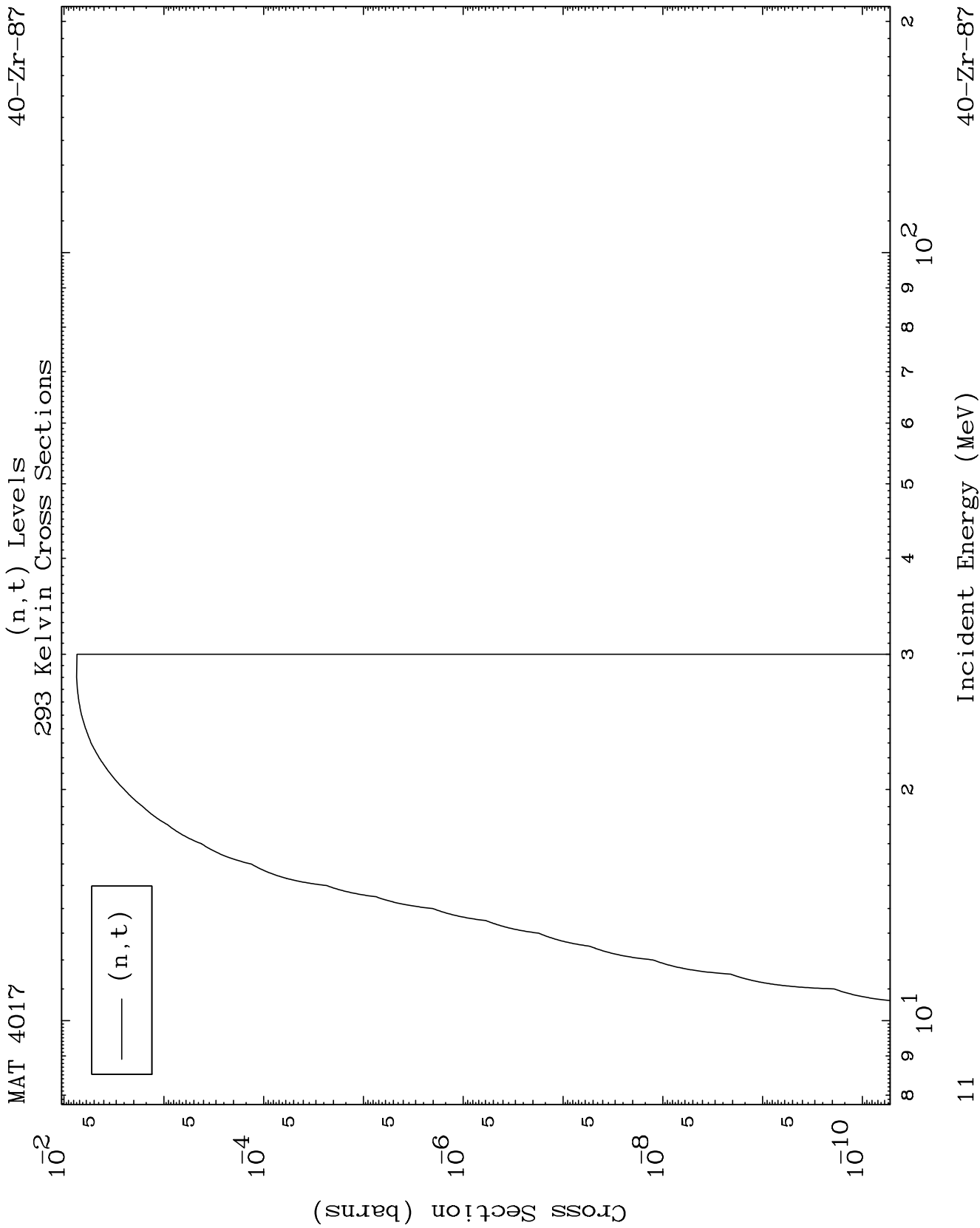
(n,d) Levels
293 Kelvin Cross Sections

40-Zr-87



Incident Energy (MeV)

40-Zr-87



10^{-2}

10^{-4}

10^{-6}

10^{-8}

10^{-10}

8 9 10 1

2

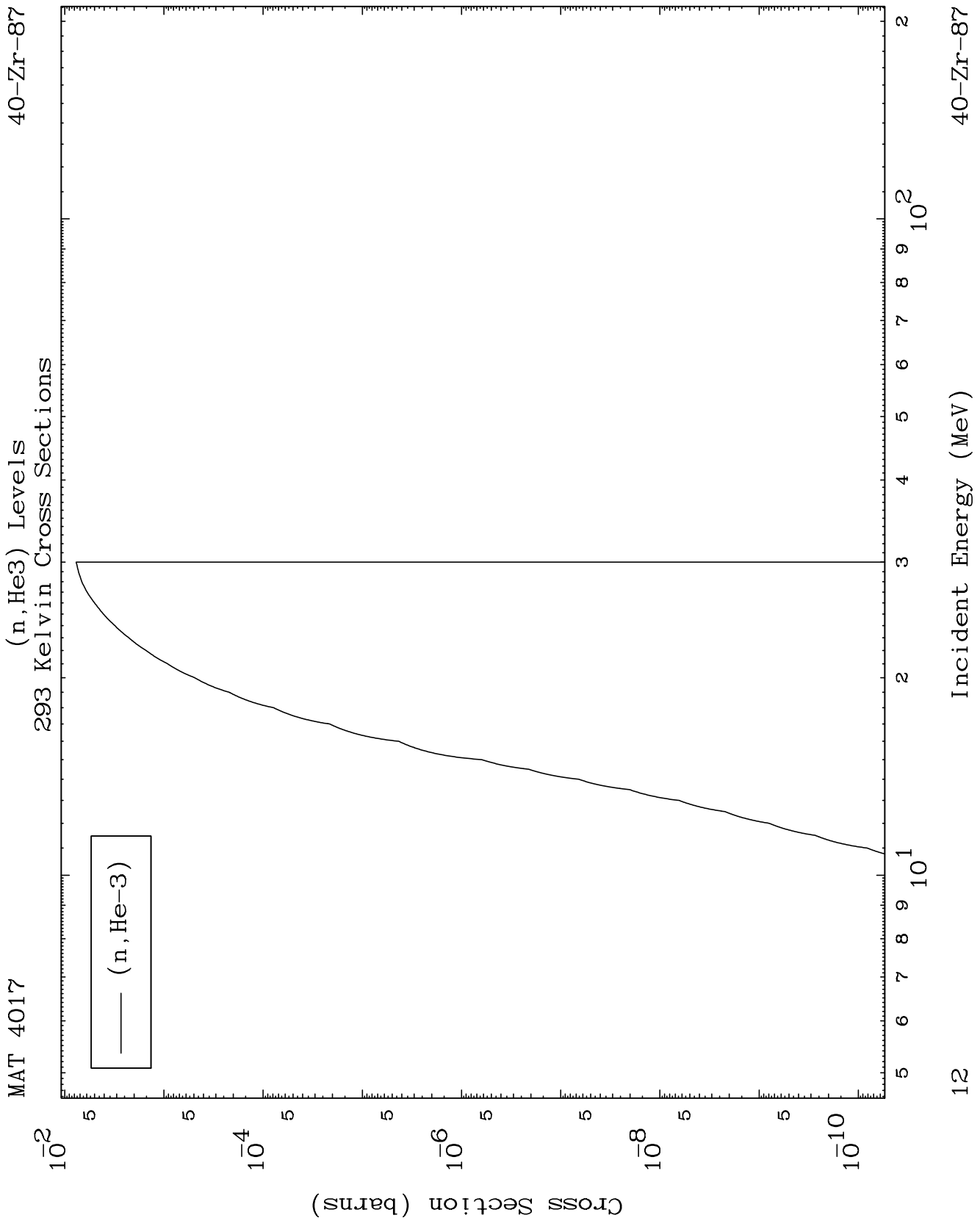
3

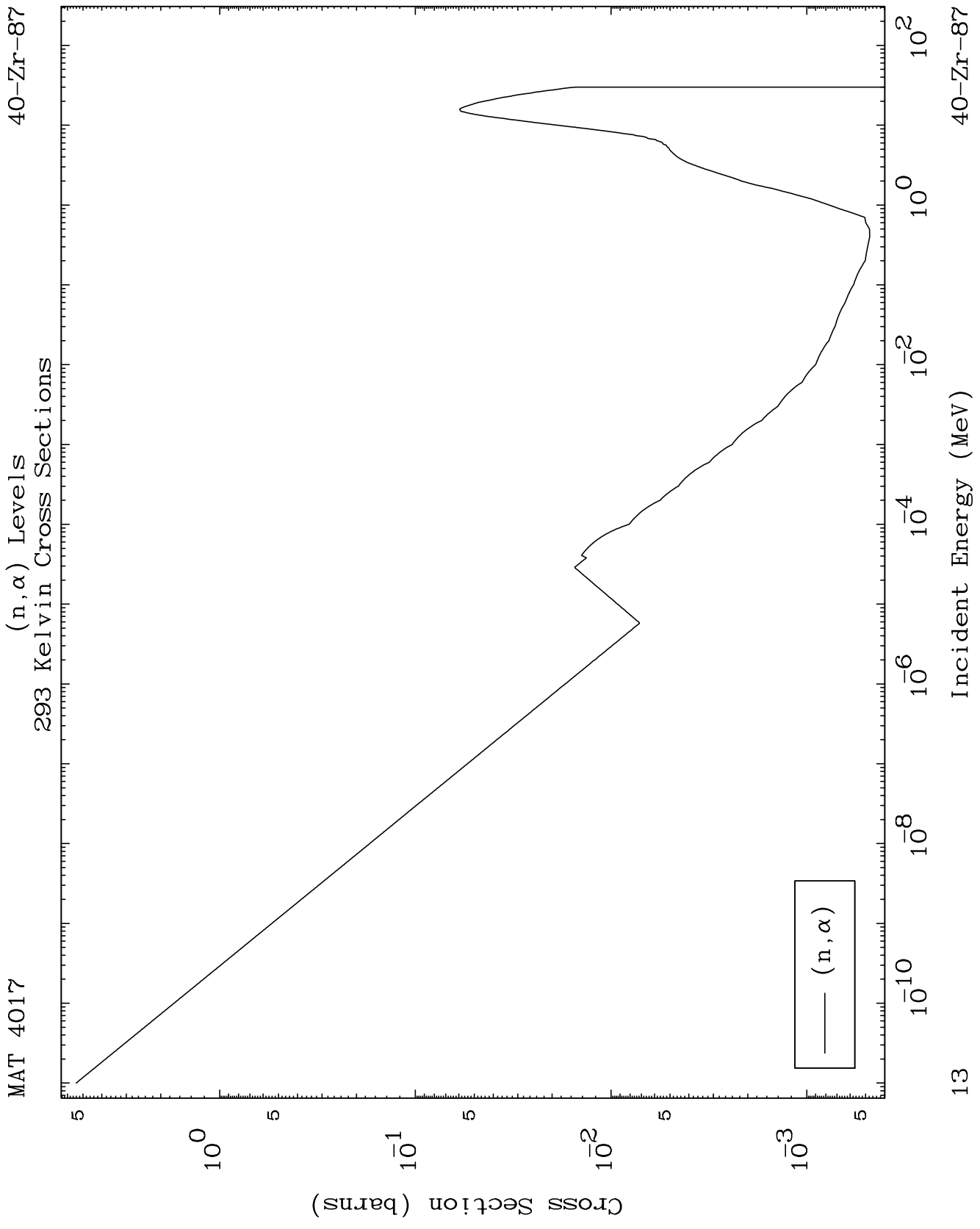
4 5 6 7 8 9

10^2

2

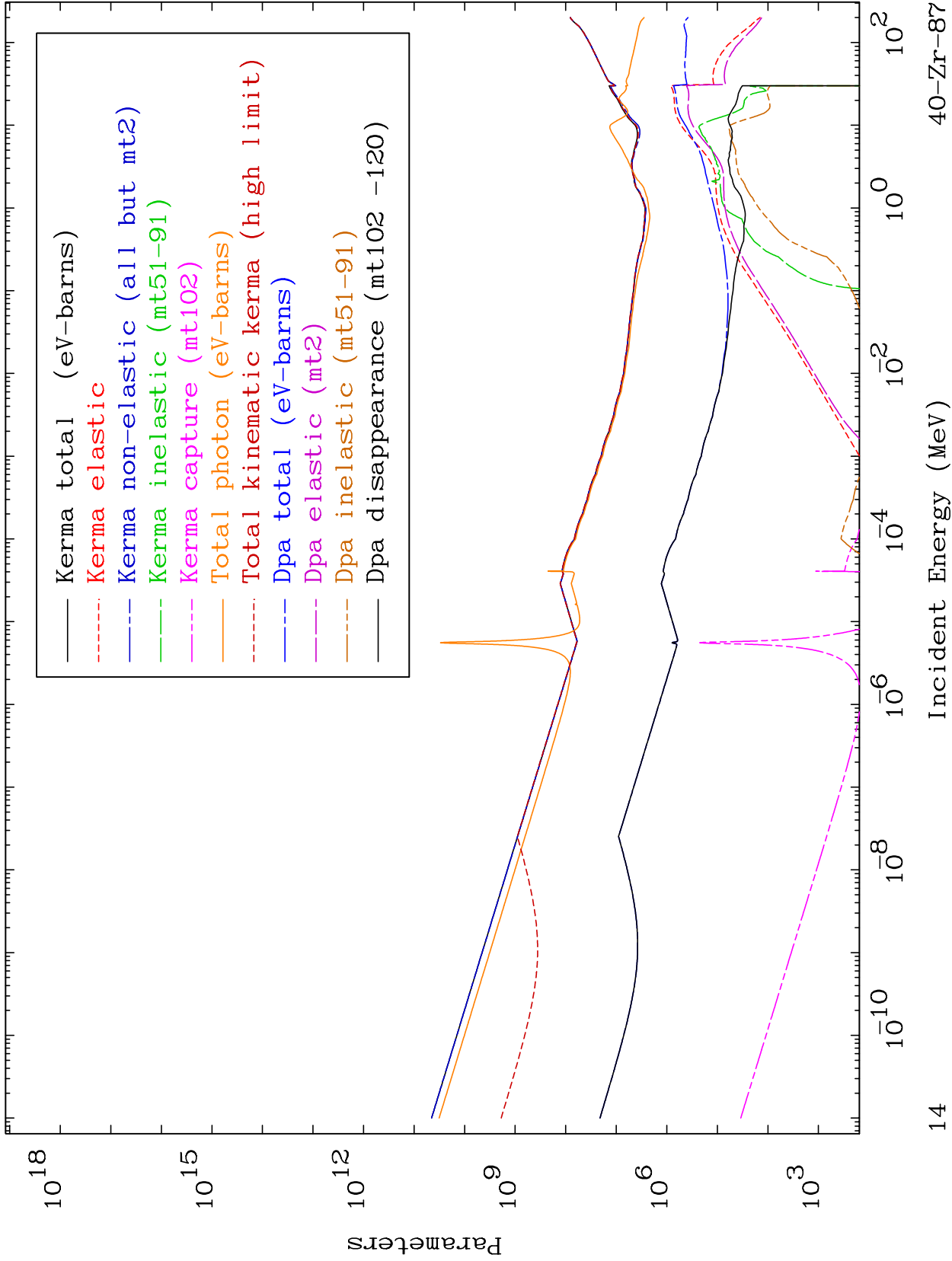
(n,t)

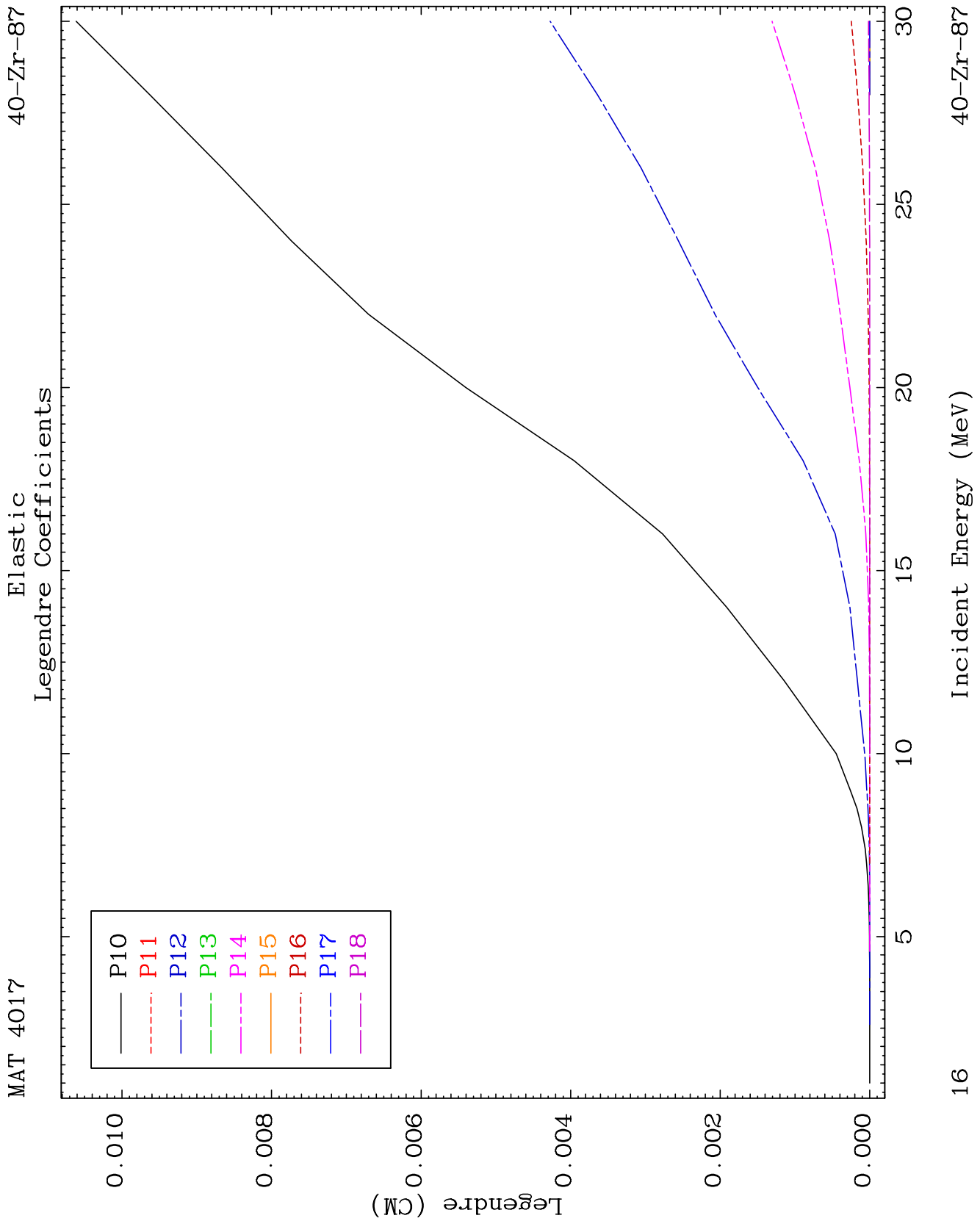


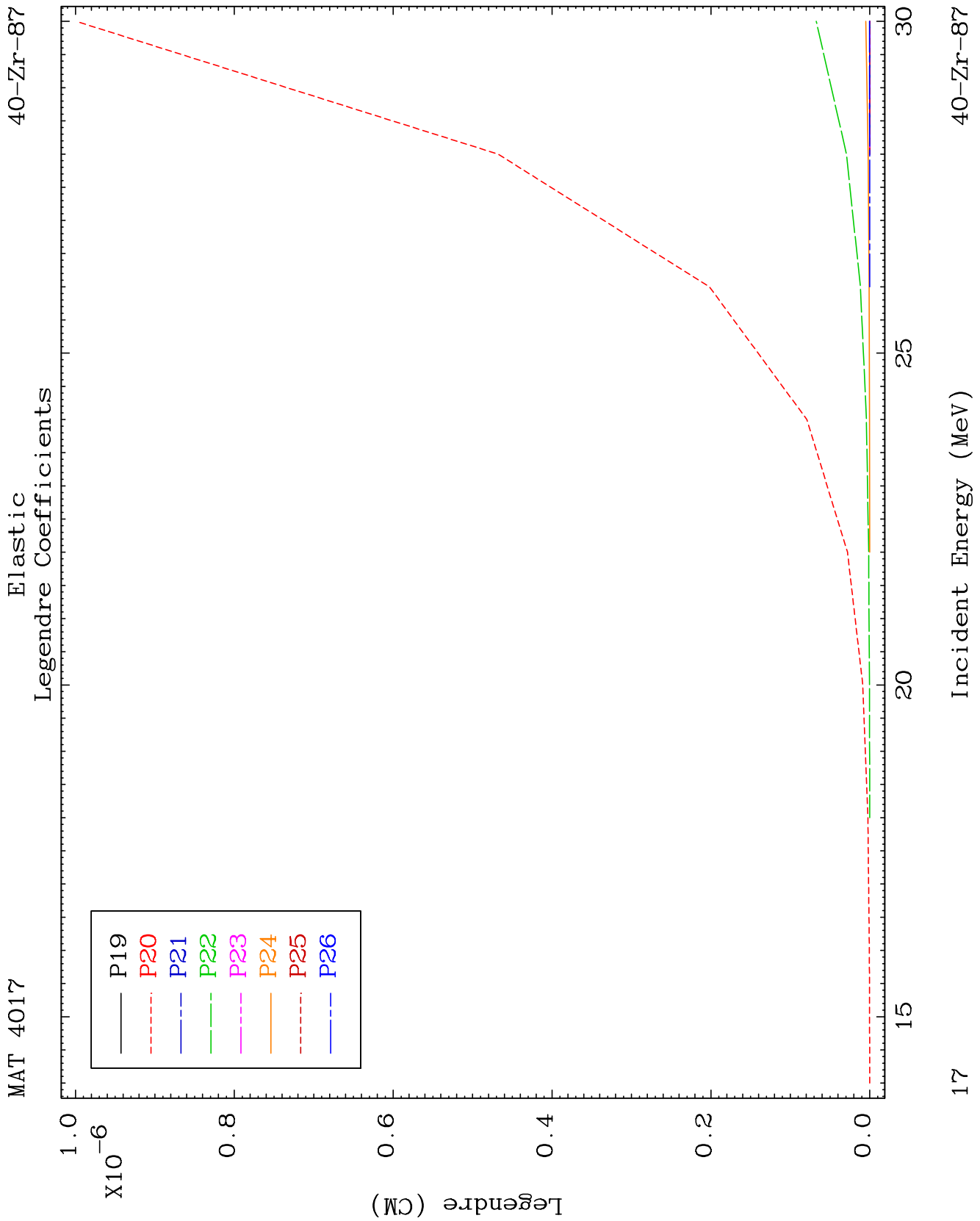


Cross Section (barns)

(n,α)







MAT 4017

Elastic Legendre Coefficients

40-Zr-87

17

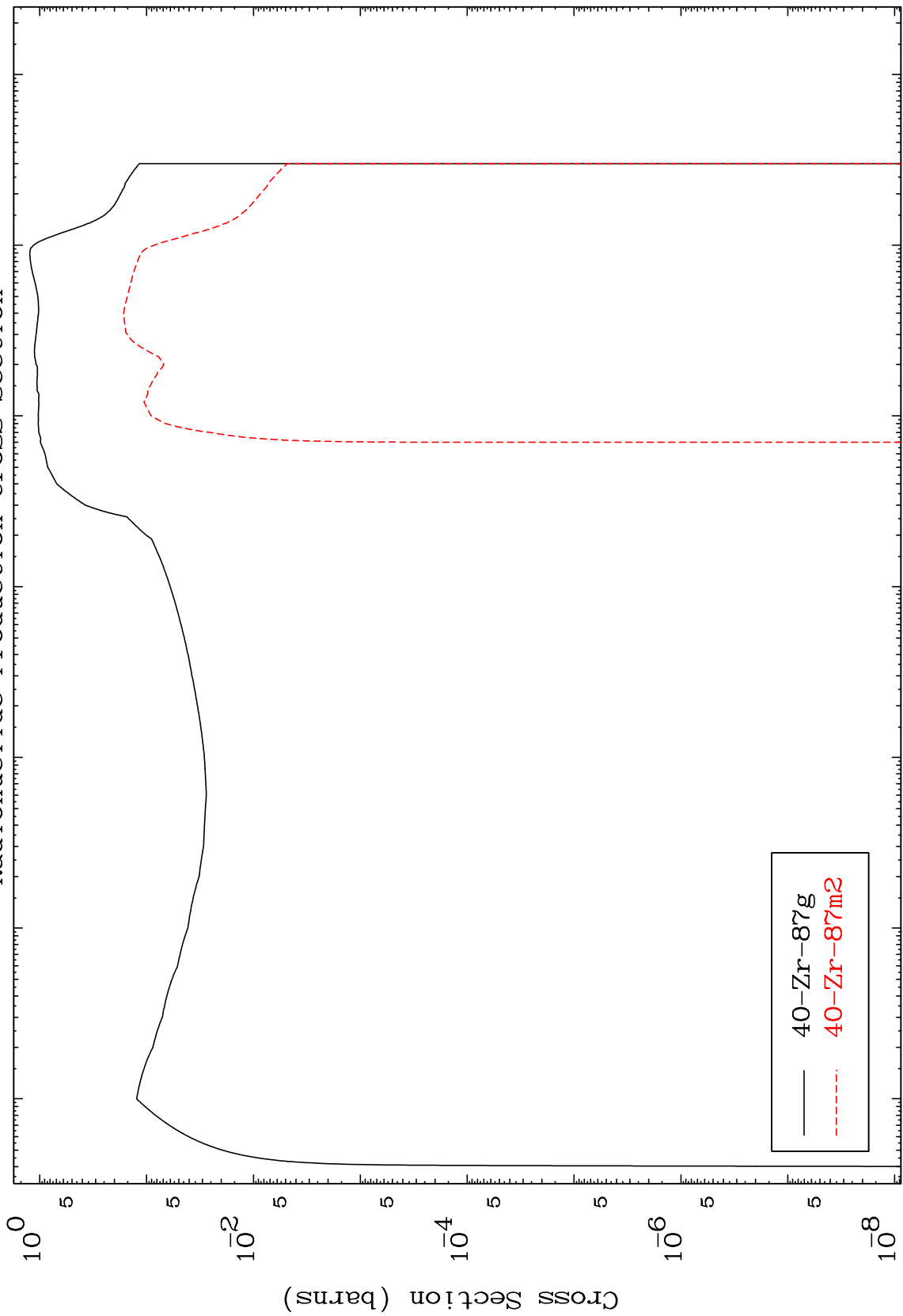
Incident Energy (MeV)

40-Zr-87

MAT 4017

40-Zr-87

Inelastic
Radionuclide Production Cross Section



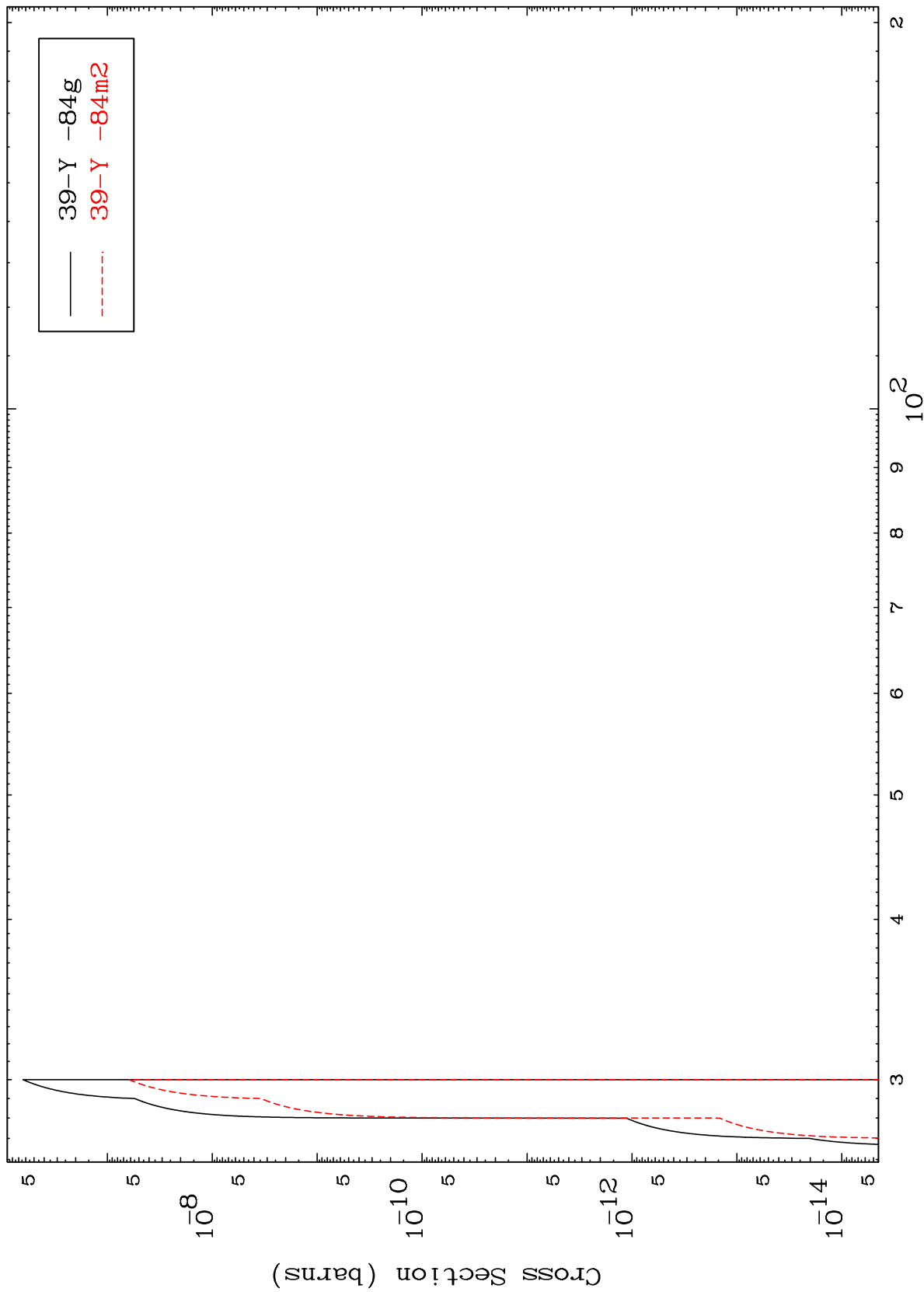
— 40-Zr-87g
- - - 40-Zr-87m2

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(n,2n) d

40-Zr-87

Radionuclide Production Cross Section



19

Incident Energy (MeV)

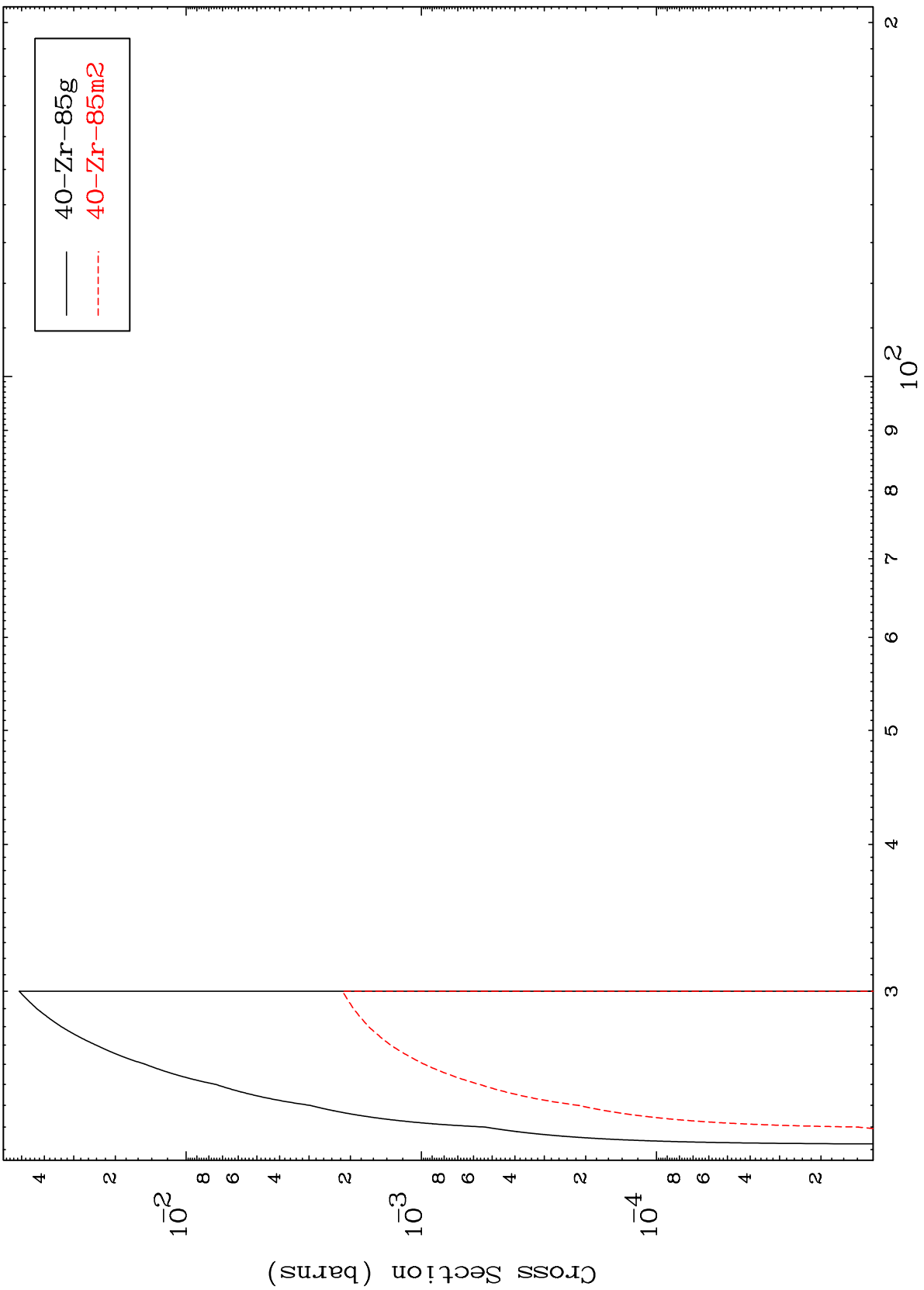
40-Zr-87

MAT 4017

40-Zr-87

(n,3n)

Radionuclide Production Cross Section



20

Incident Energy (MeV)

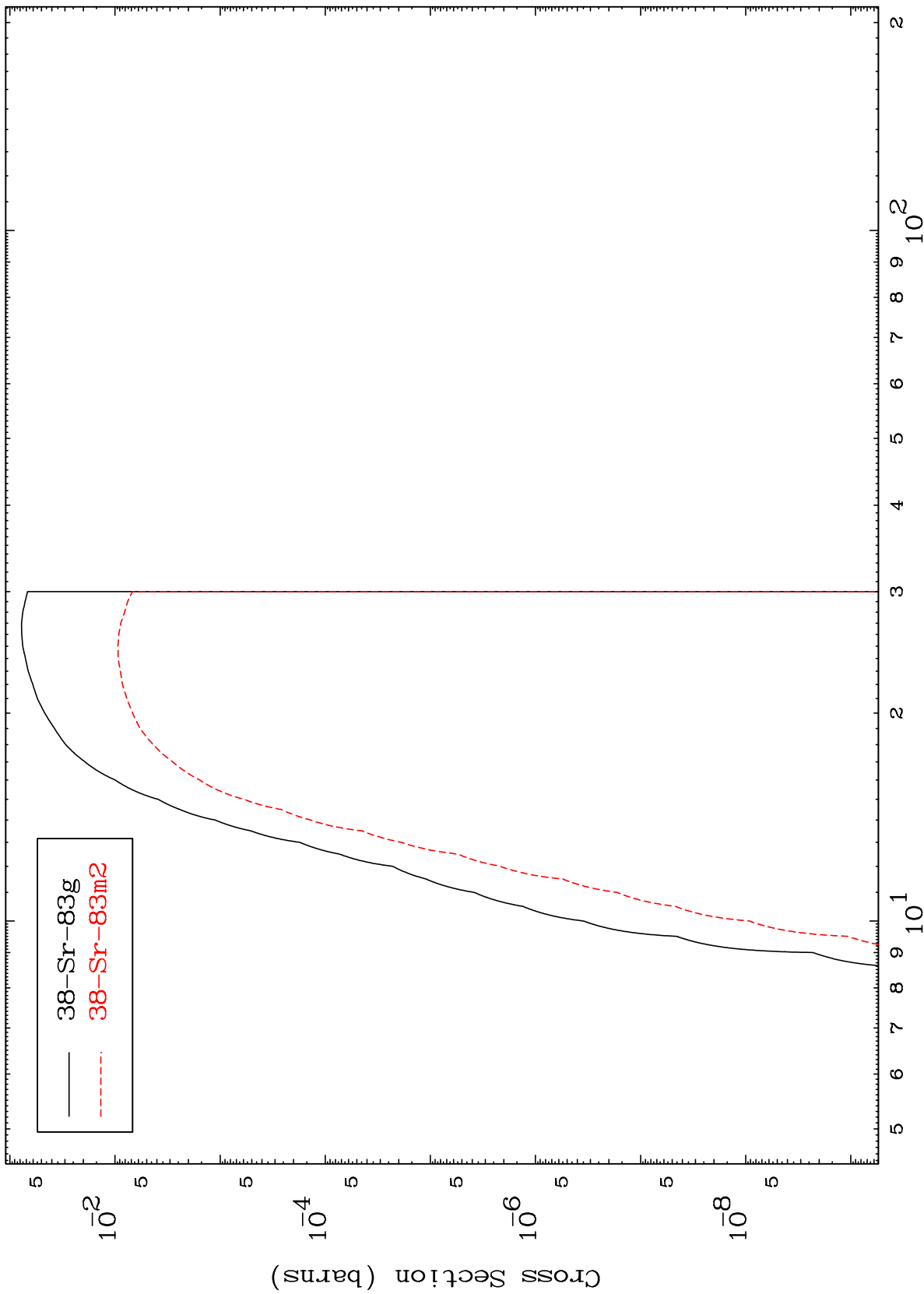
40-Zr-87

MAT 4017

(n,n') α

40-Zr-87

Radionuclide Production Cross Section



21

Incident Energy (MeV)

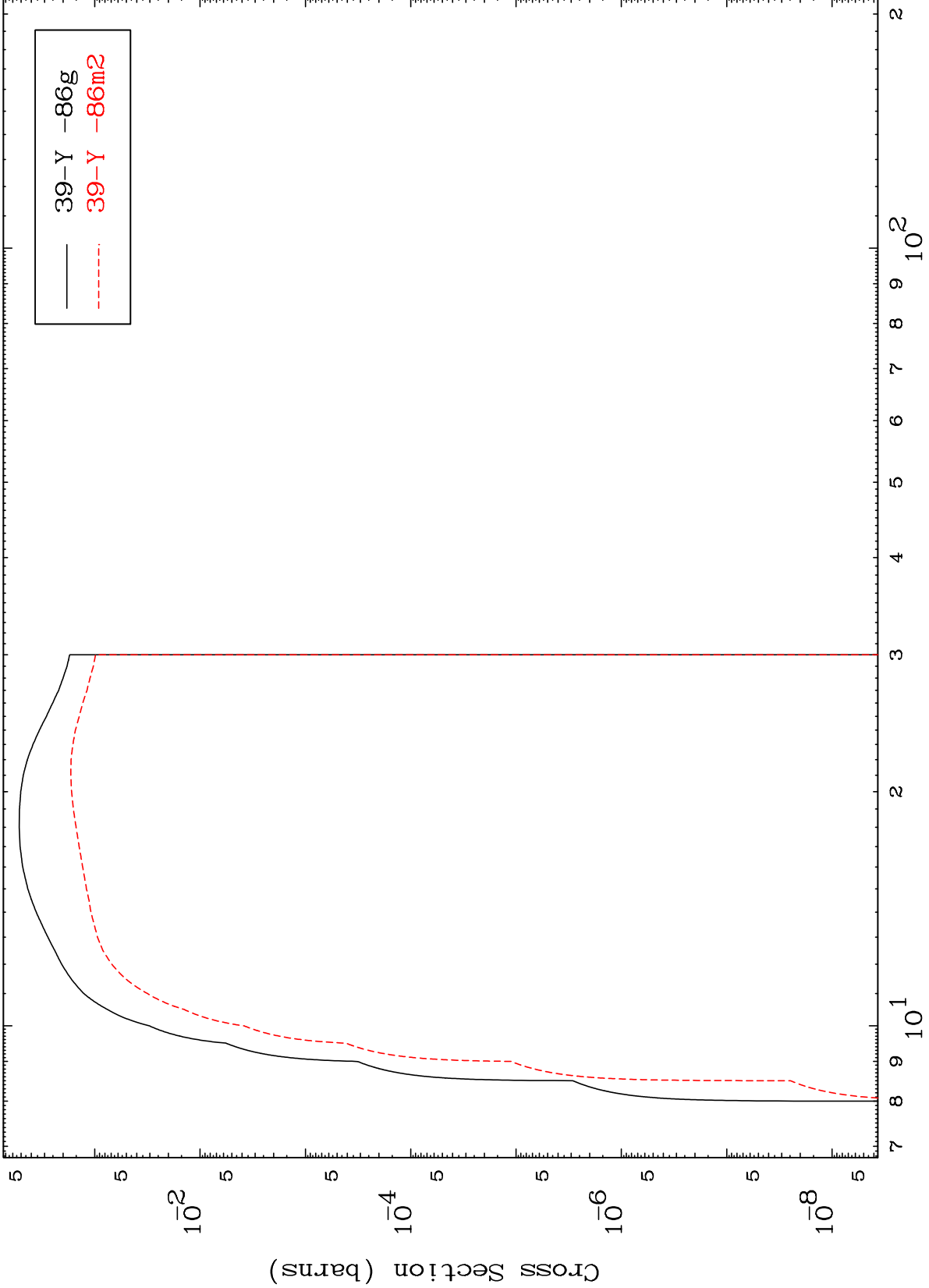
40-Zr-87

MAT 4017

(n,n') p

40-Zr-87

Radionuclide Production Cross Section



22

Incident Energy (MeV)

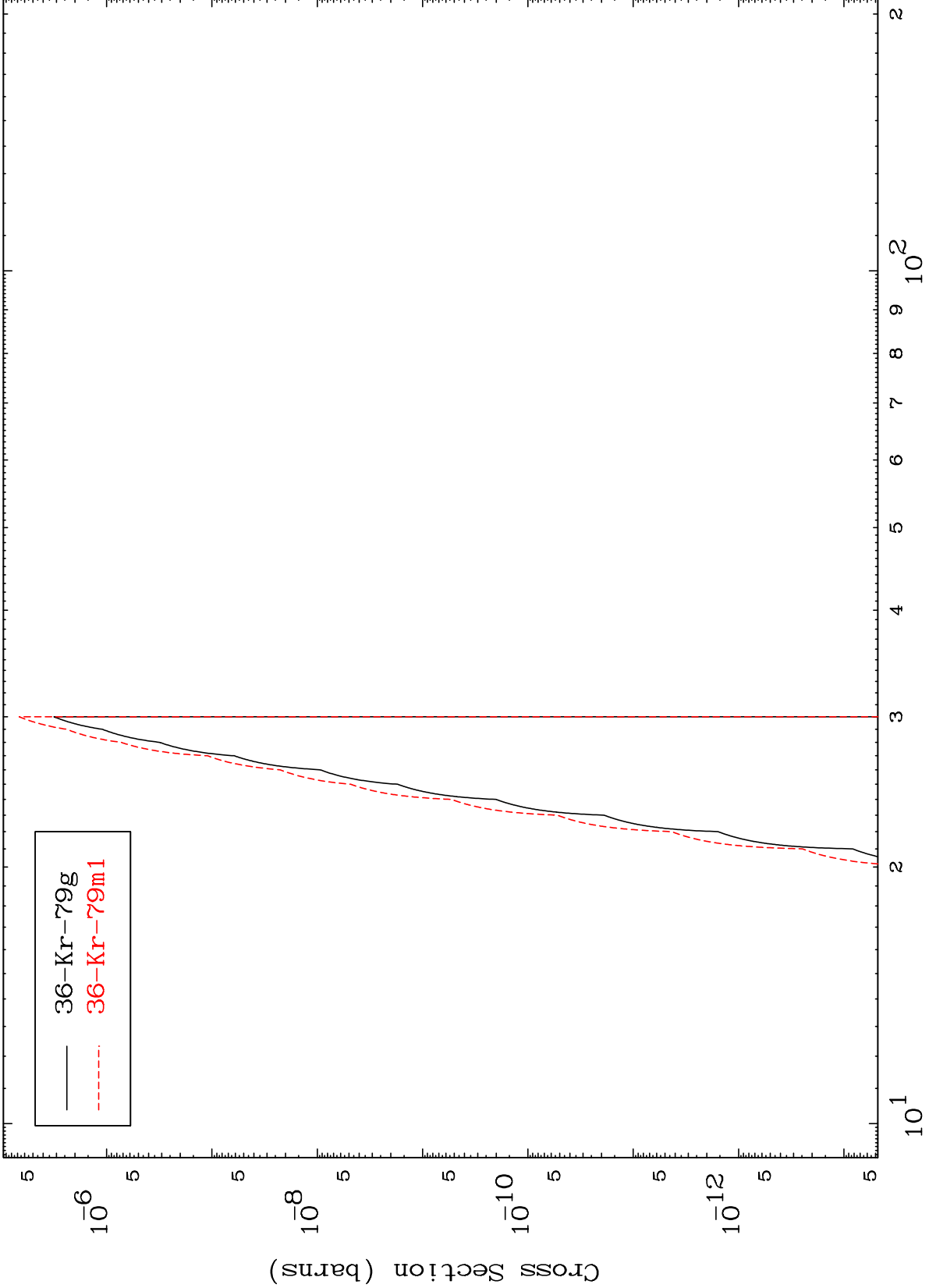
40-Zr-87

MAT 4017

(n,n') 2α

40-Zr-87

Radionuclide Production Cross Section



23

Incident Energy (MeV)

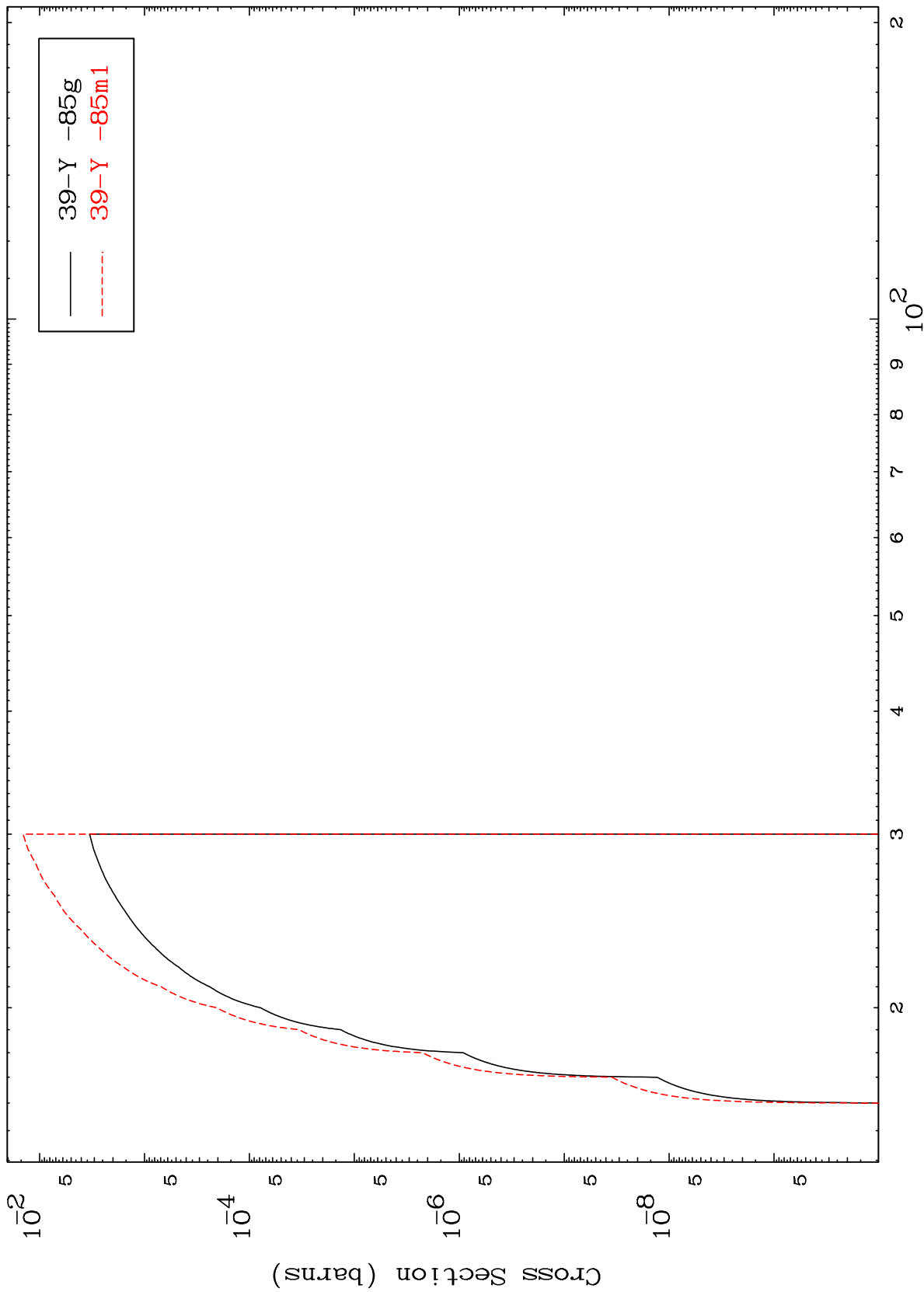
40-Zr-87

MAT 4017

(n,n') d

40-Zr-87

Radionuclide Production Cross Section



24

Incident Energy (MeV)

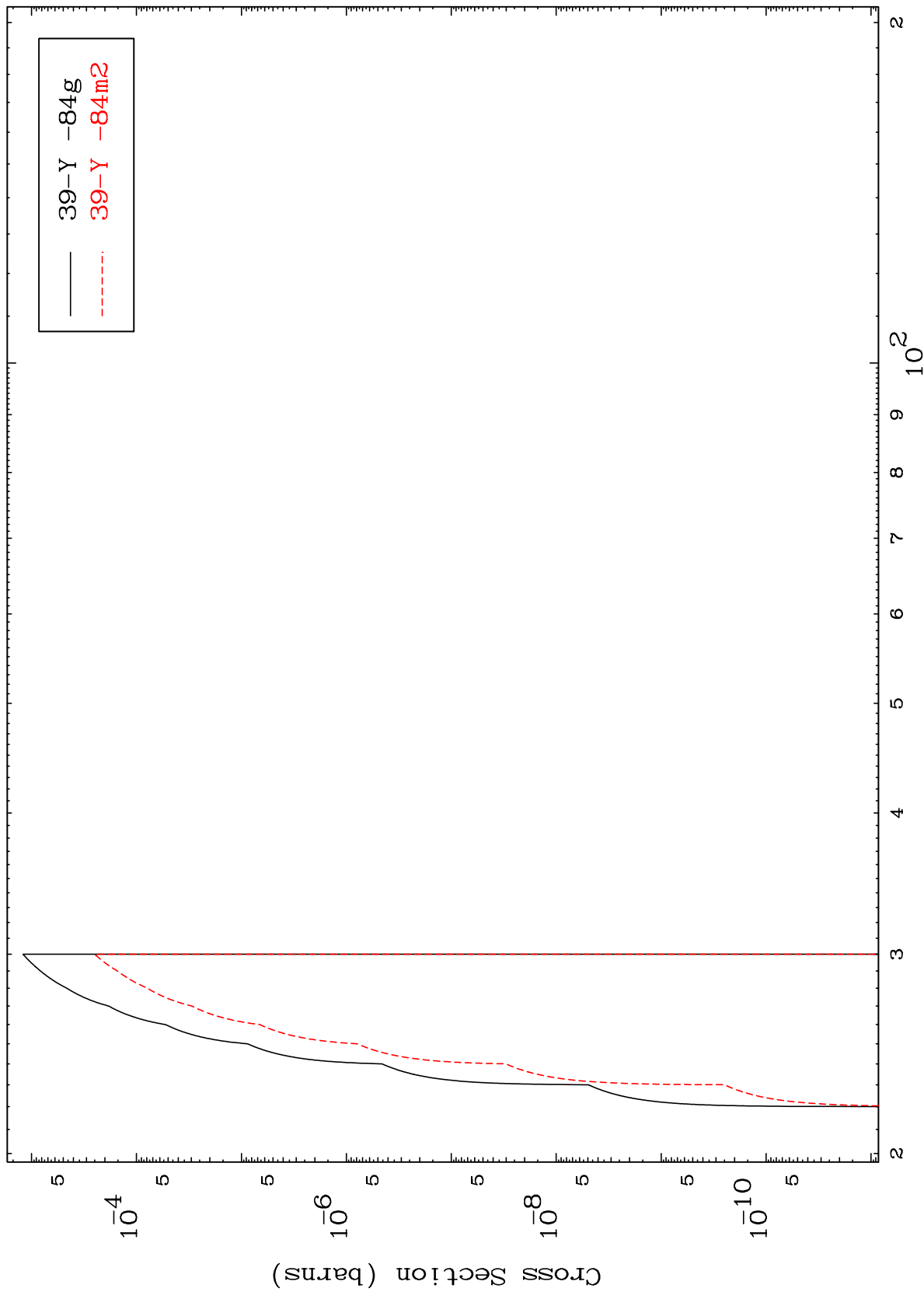
40-Zr-87

MAT 4017

(n,n') t

40-Zr-87

Radionuclide Production Cross Section



25

Incident Energy (MeV)

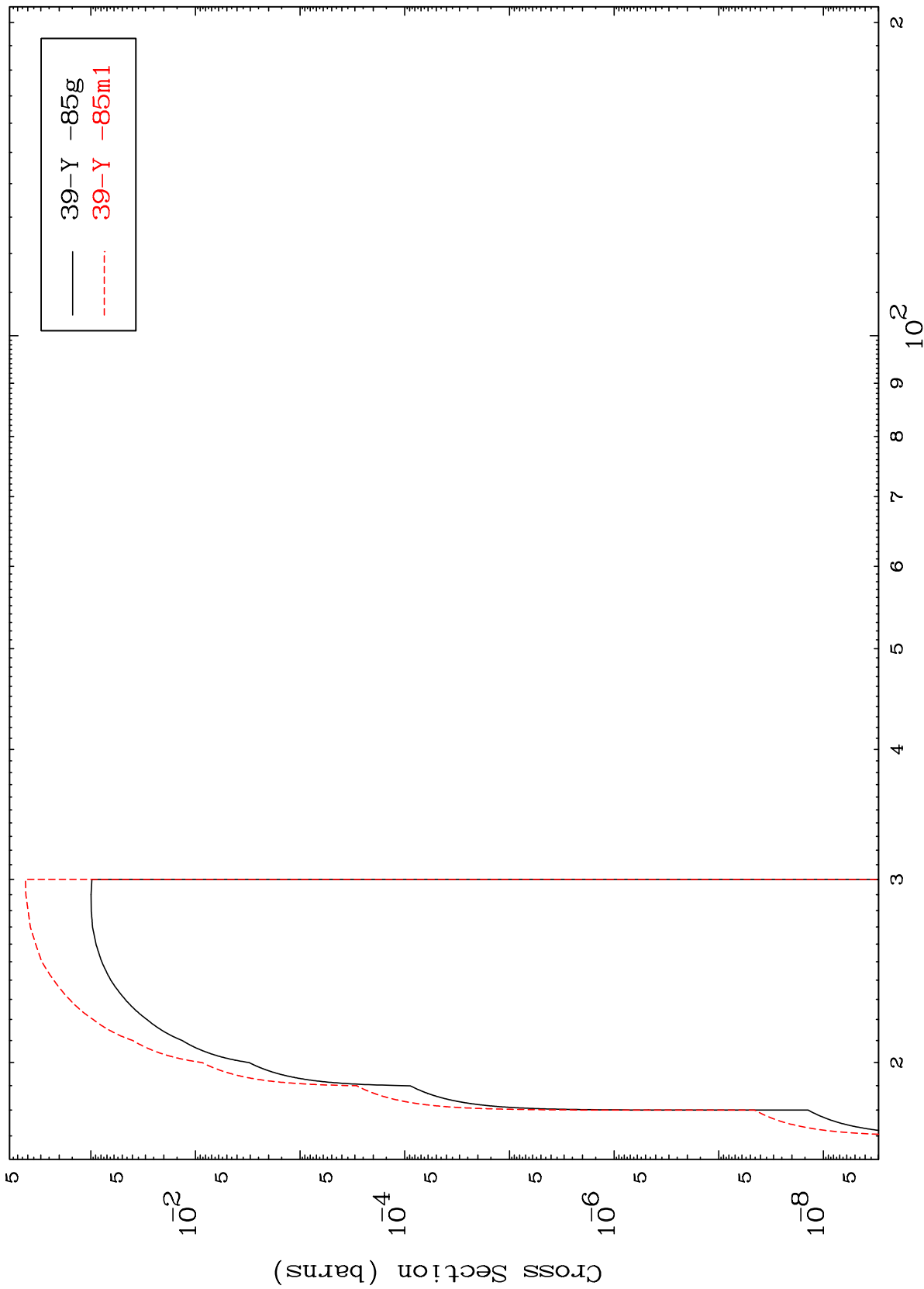
40-Zr-87

MAT 4017

(n,2n) p

40-Zr-87

Radionuclide Production Cross Section



26

Incident Energy (MeV)

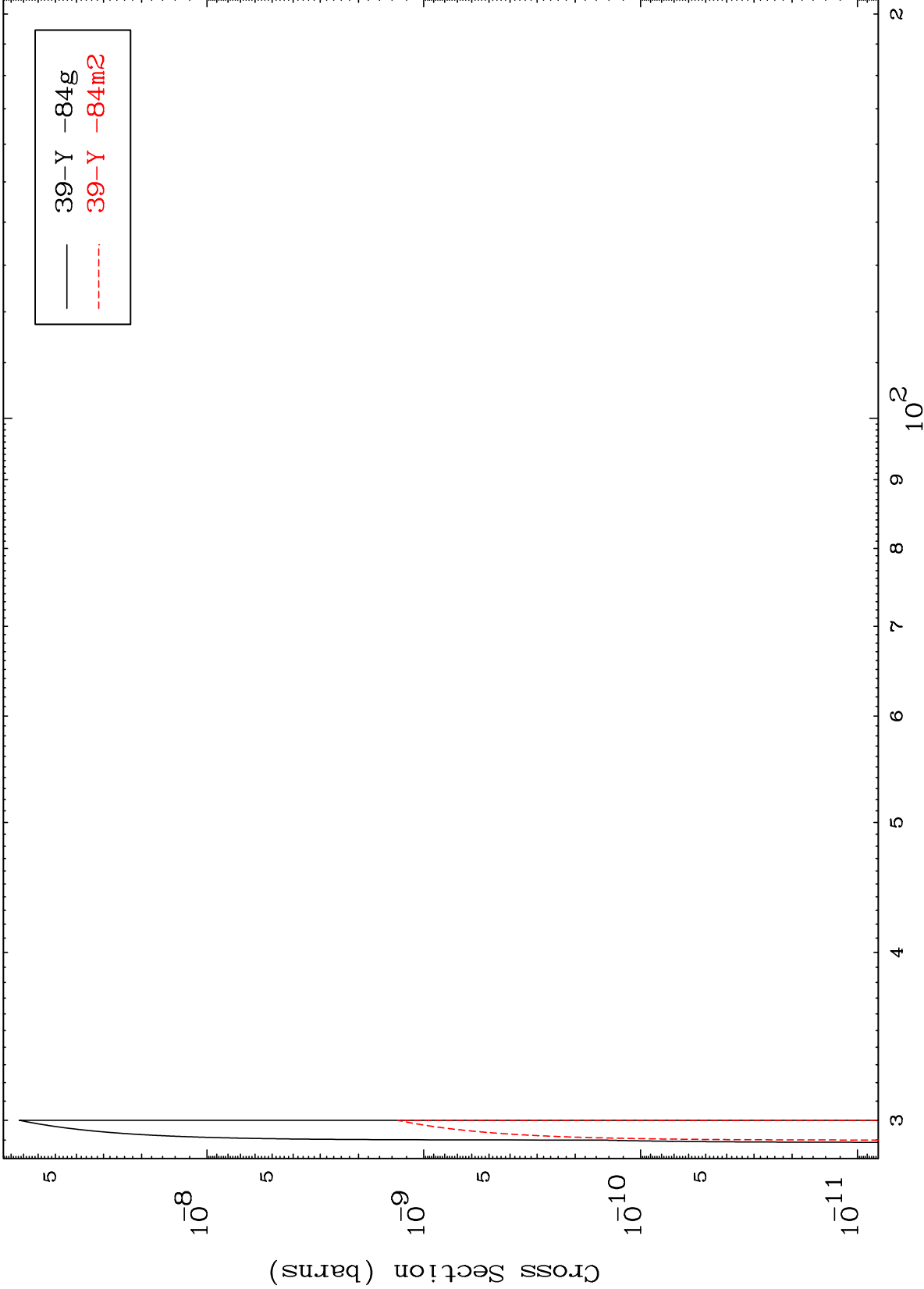
40-Zr-87

MAT 4017

(n,3n) p

40-Zr-87

Radionuclide Production Cross Section



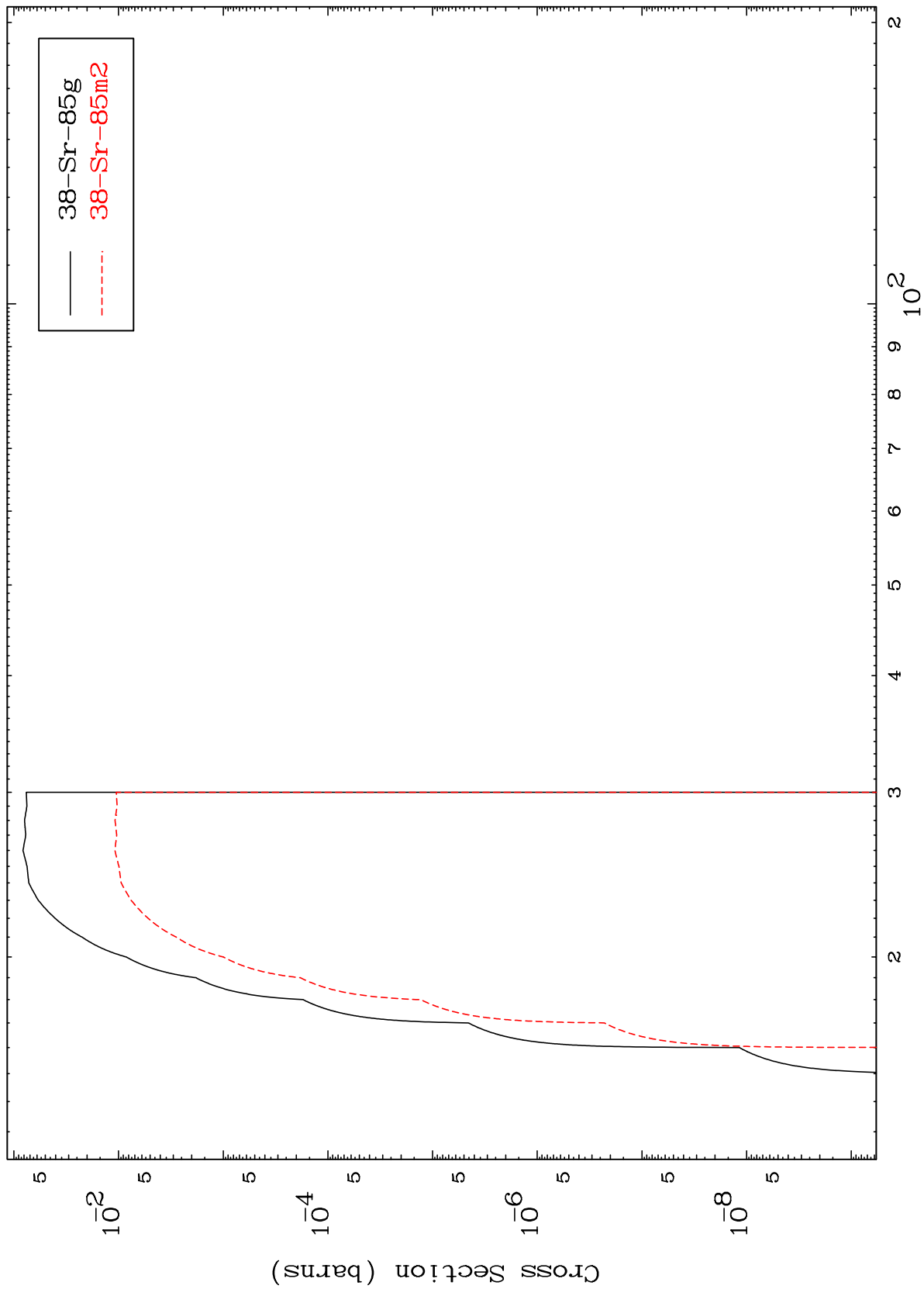
39-Y-84g
39-Y-84m2

MAT 4017

(n,2n) p

40-Zr-87

Radionuclide Production Cross Section



28

Incident Energy (MeV)

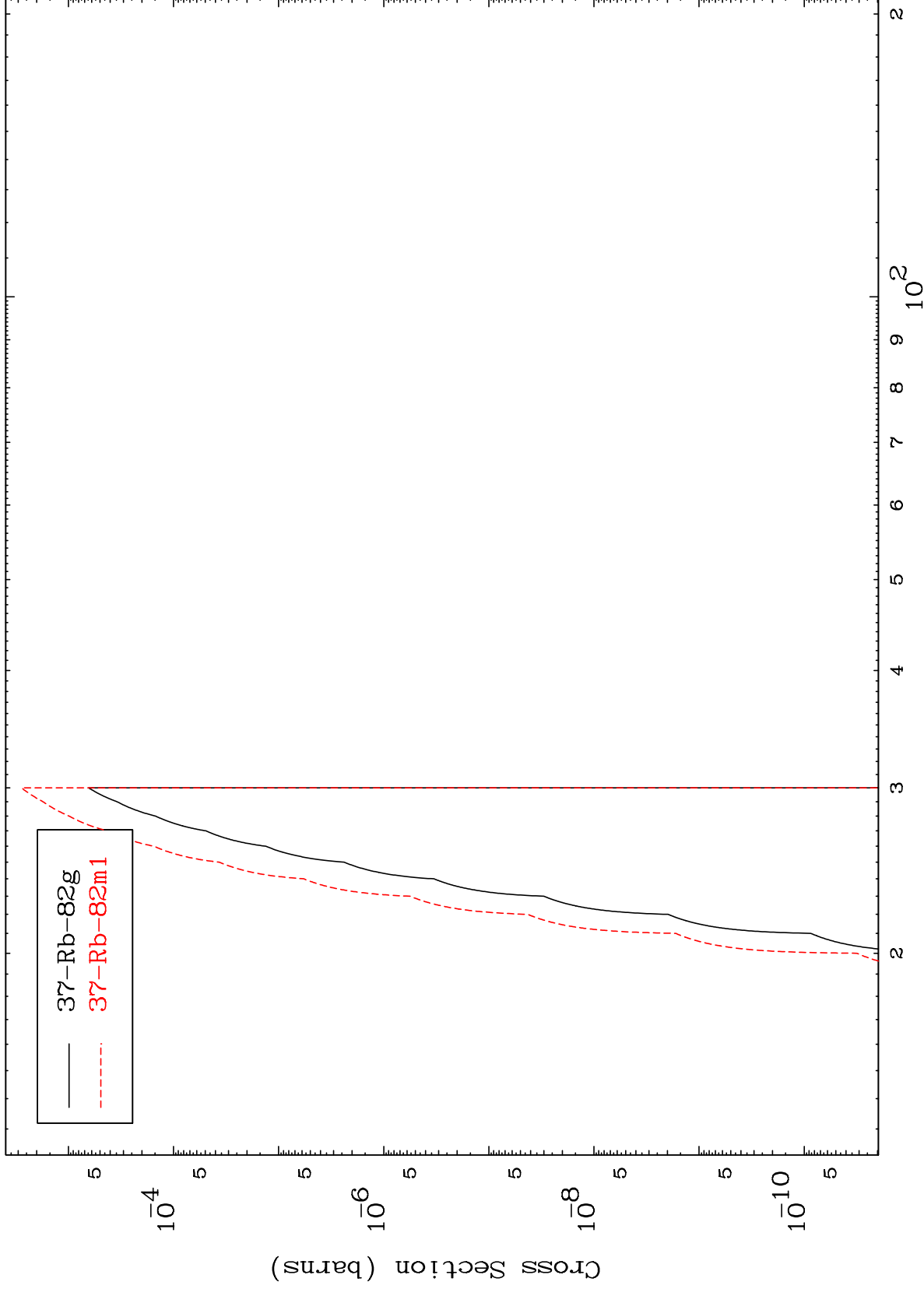
40-Zr-87

MAT 4017

(n,n') p α

40-Zr-87

Radionuclide Production Cross Section



Incident Energy (MeV)

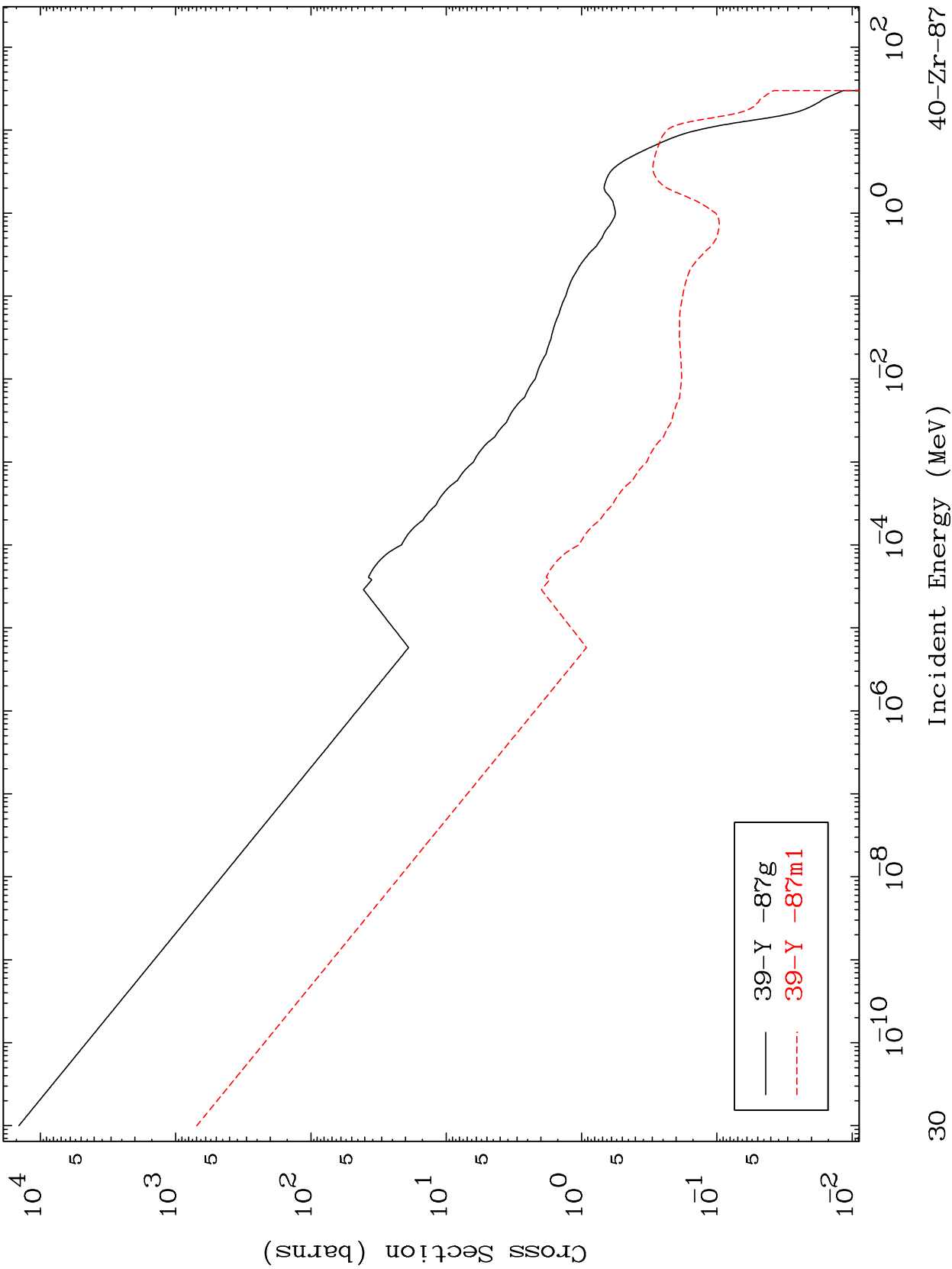
40-Zr-87

29

MAT 4017

40-Zr-87

(n,p)
Radionuclide Production Cross Section



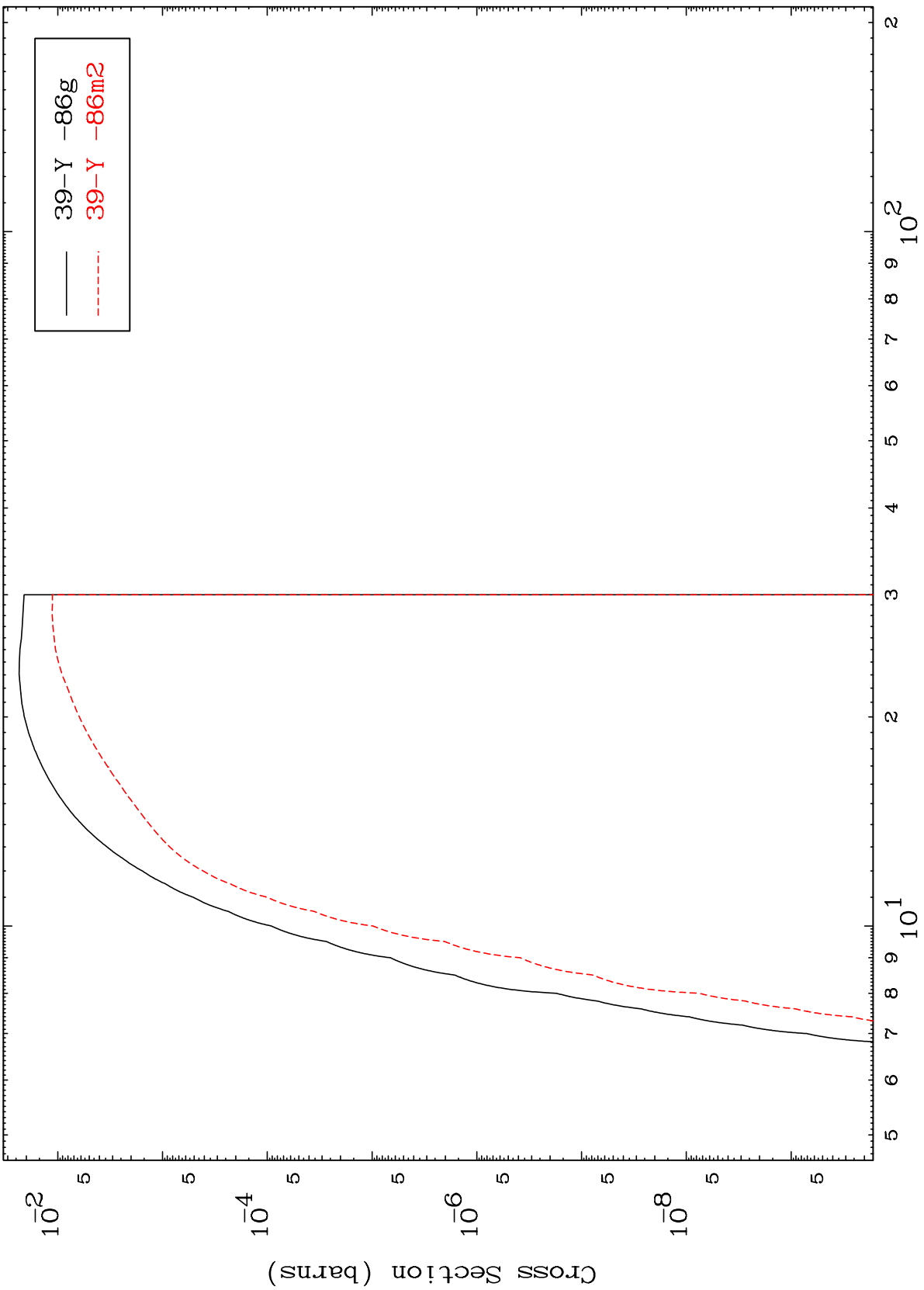
30

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(n,d)

40-Zr-87

Radionuclide Production Cross Section



31

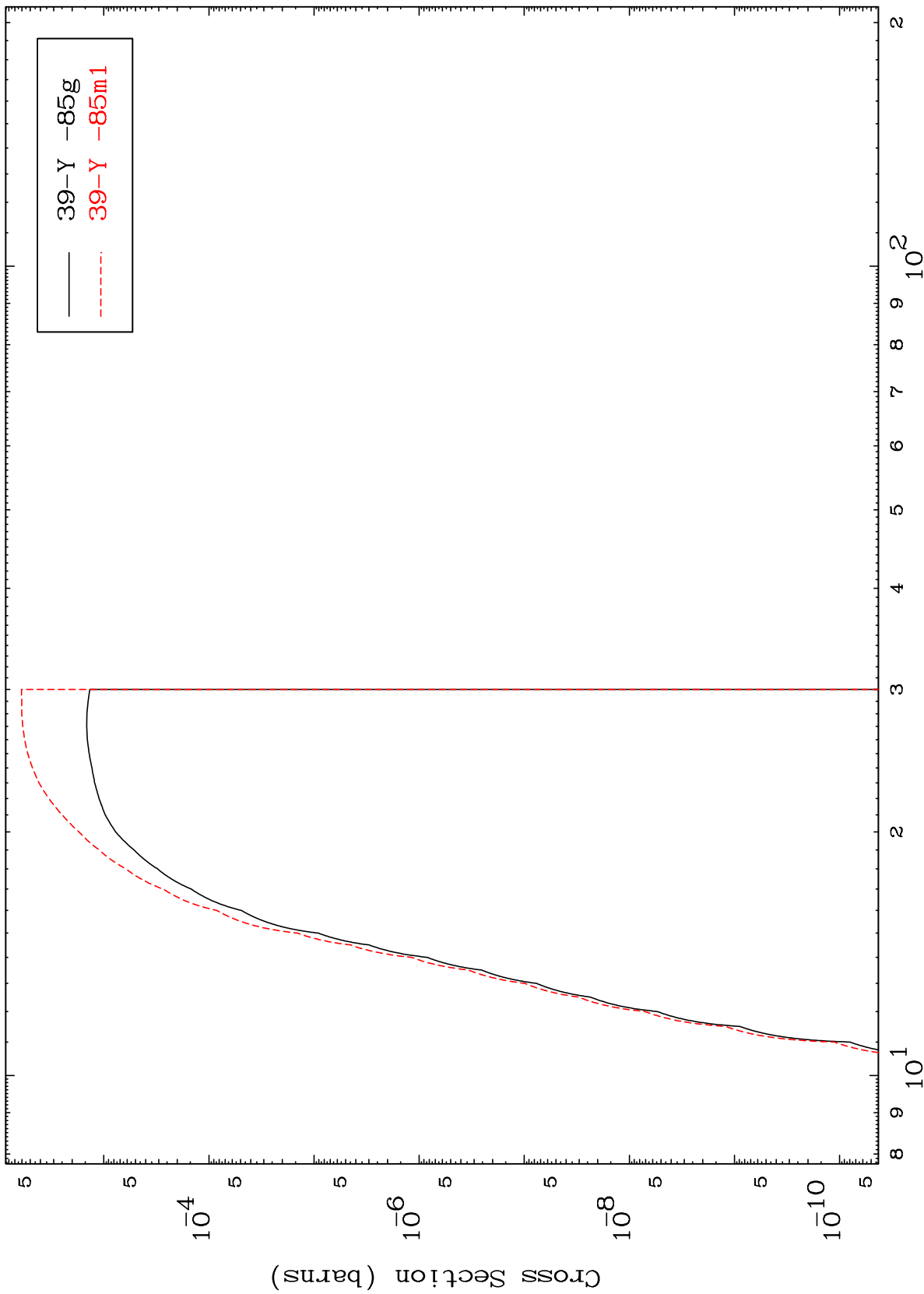
Incident Energy (MeV)

40-Zr-87

MAT 4017

40-Zr-87

(n,t)
Radionuclide Production Cross Section



40-Zr-87

Incident Energy (MeV)

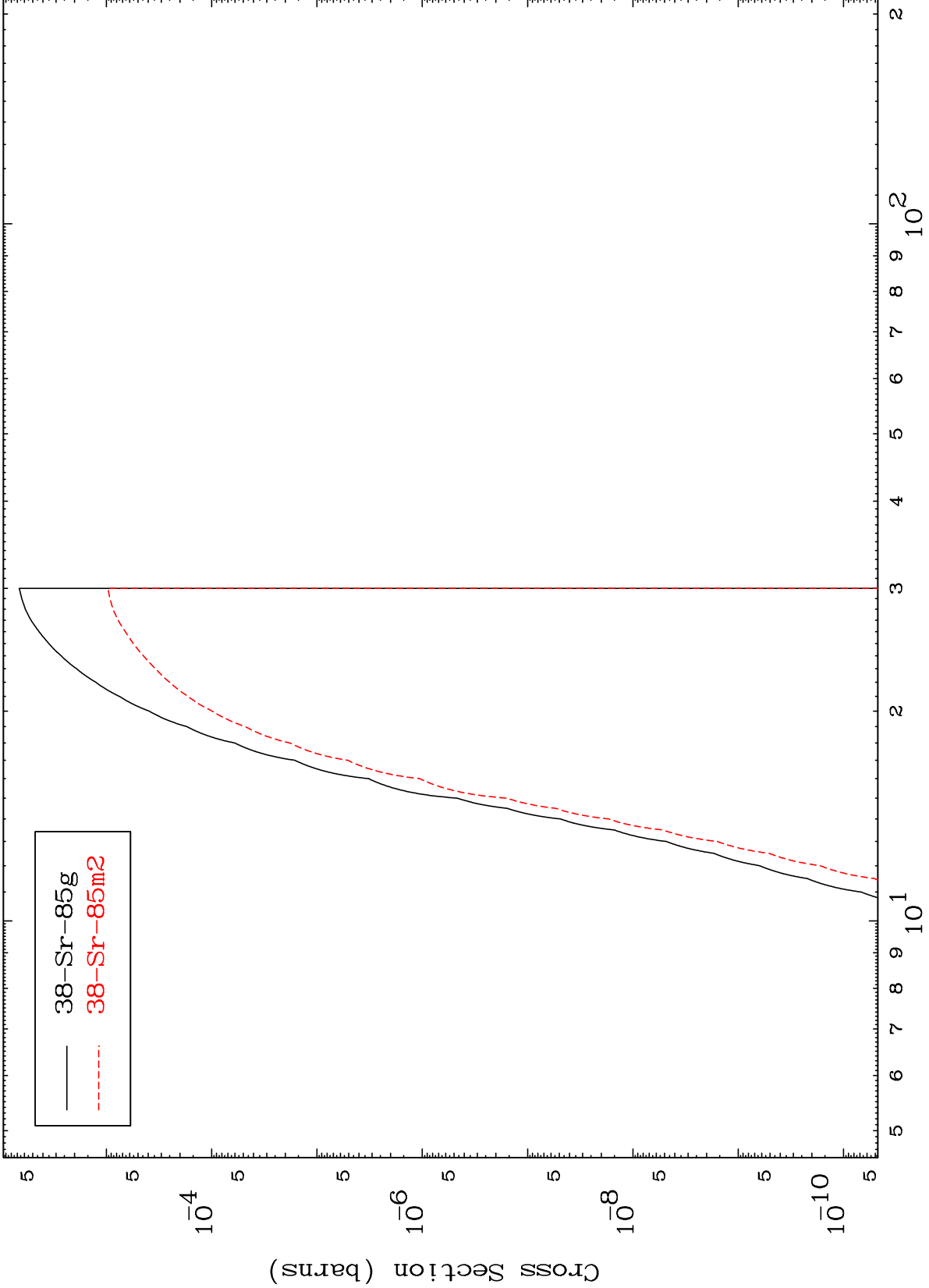
32

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(n,He-3)

40-Zr-87

Radionuclide Production Cross Section



33

Incident Energy (MeV)

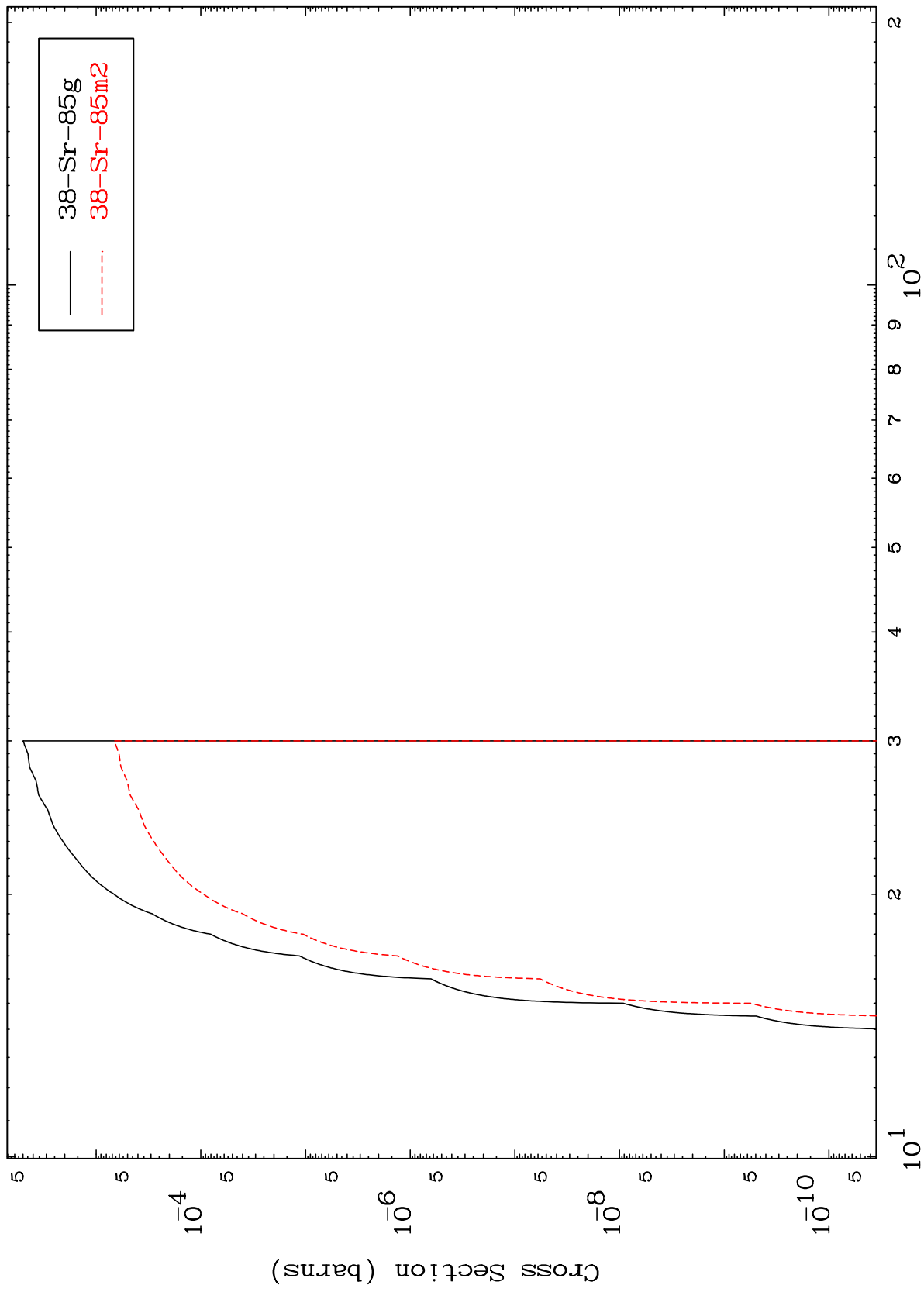
40-Zr-87

MAT 4017

(n,p) d

40-Zr-87

Radionuclide Production Cross Section



Incident Energy (MeV)

40-Zr-87

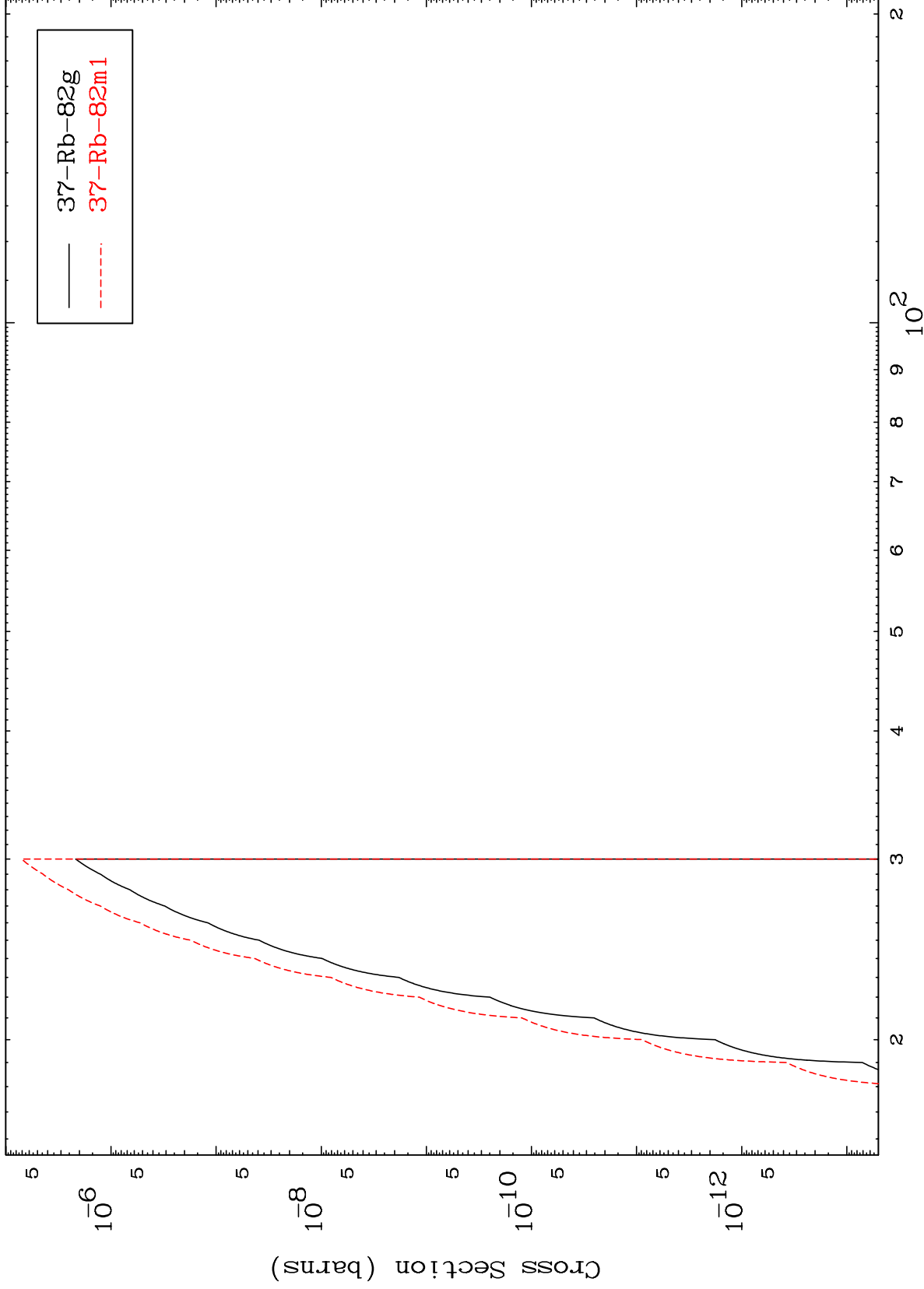
34

MAT 4017

(n,d) α

40-Zr-87

Radionuclide Production Cross Section



35

Incident Energy (MeV)

40-Zr-87