

Program EVALPLOT
(Version 2021-1)

by

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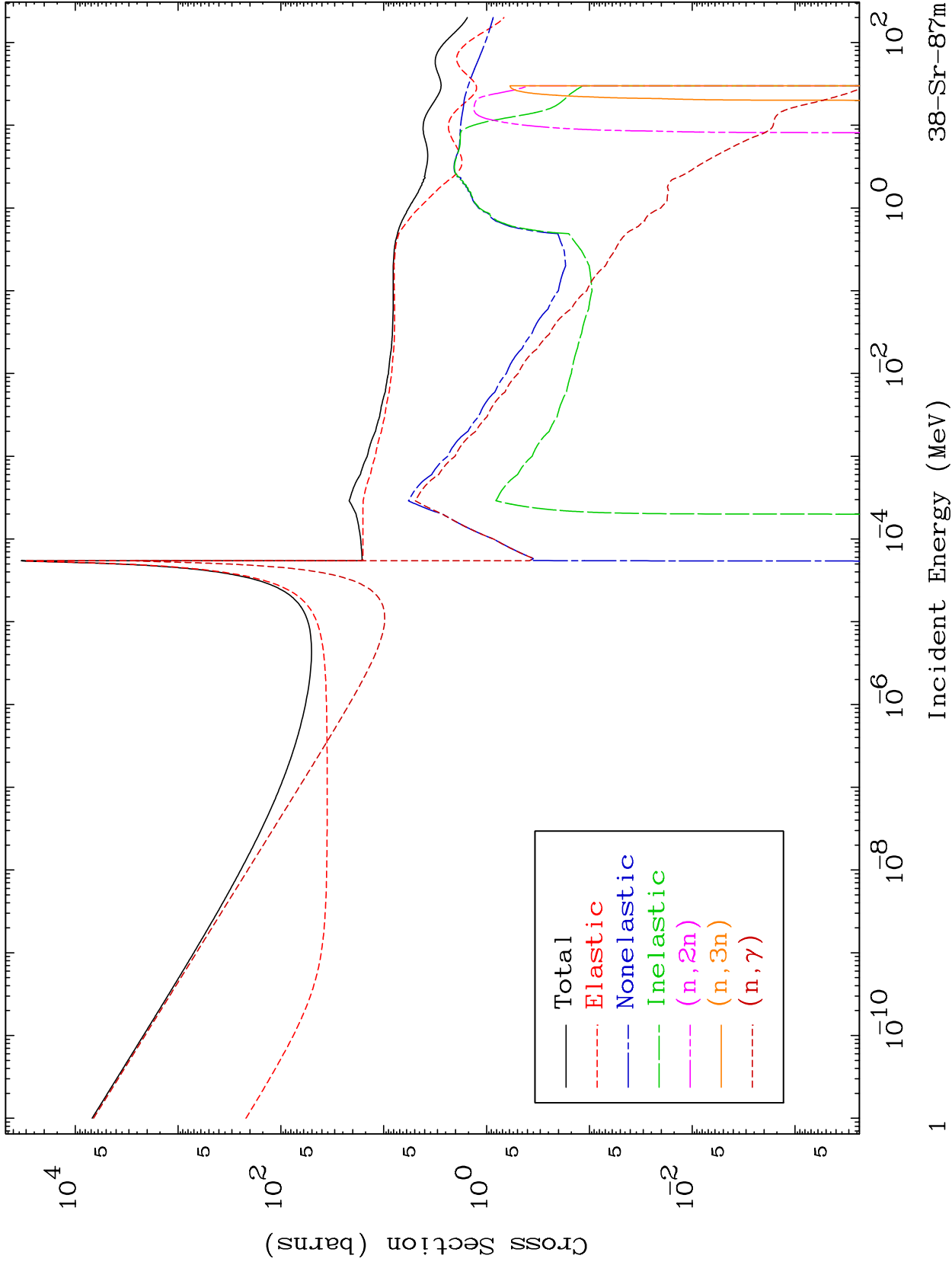
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3835

Neutron Major
293 Kelvin Cross Sections

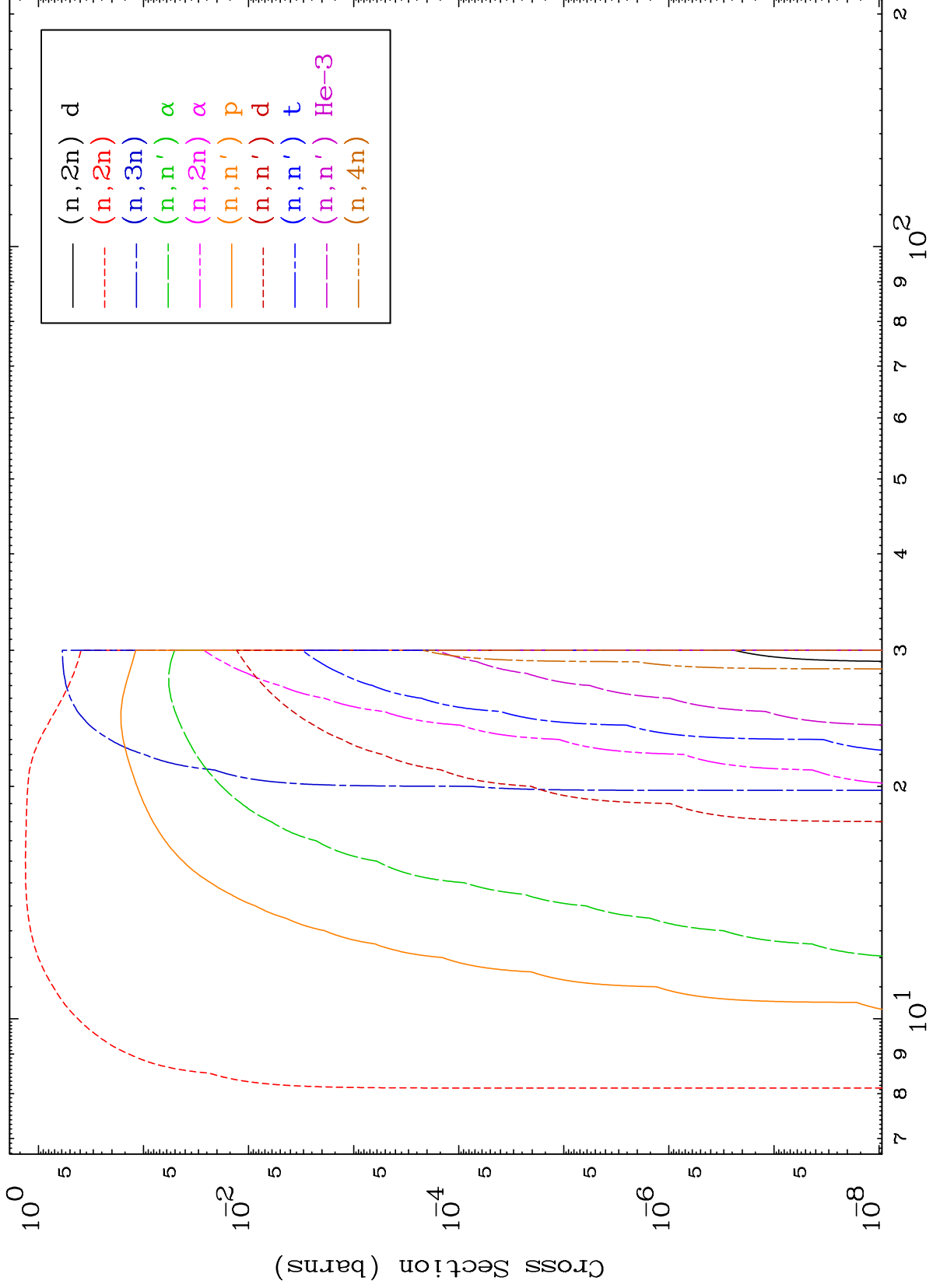
38-Sr-87m



MAT 3835

Neutron Absorption
293 Kelvin Cross Sections

38-Sr-87m



2

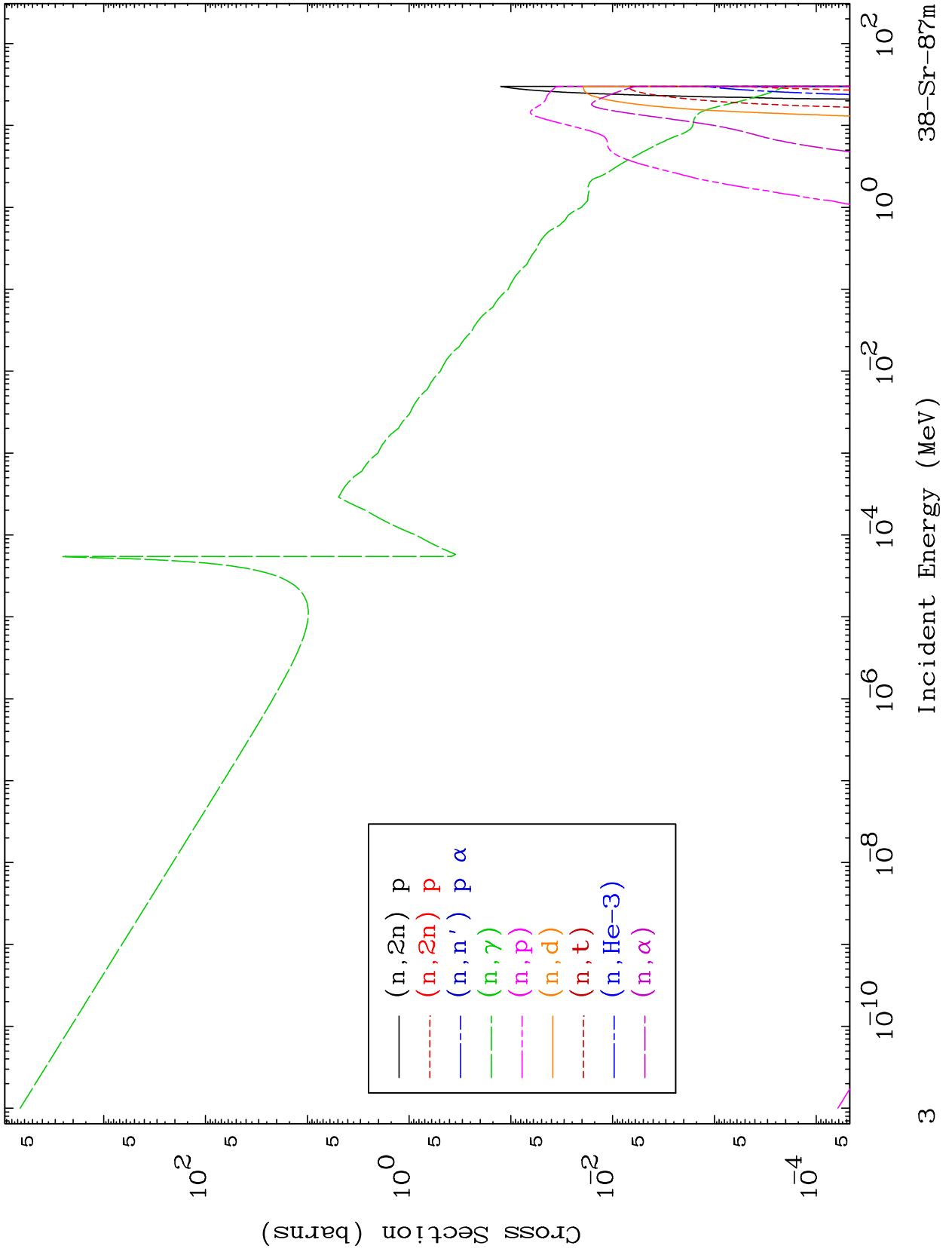
Incident Energy (MeV)

38-Sr-87m

MAT 3835

Neutron Absorption
293 Kelvin Cross Sections

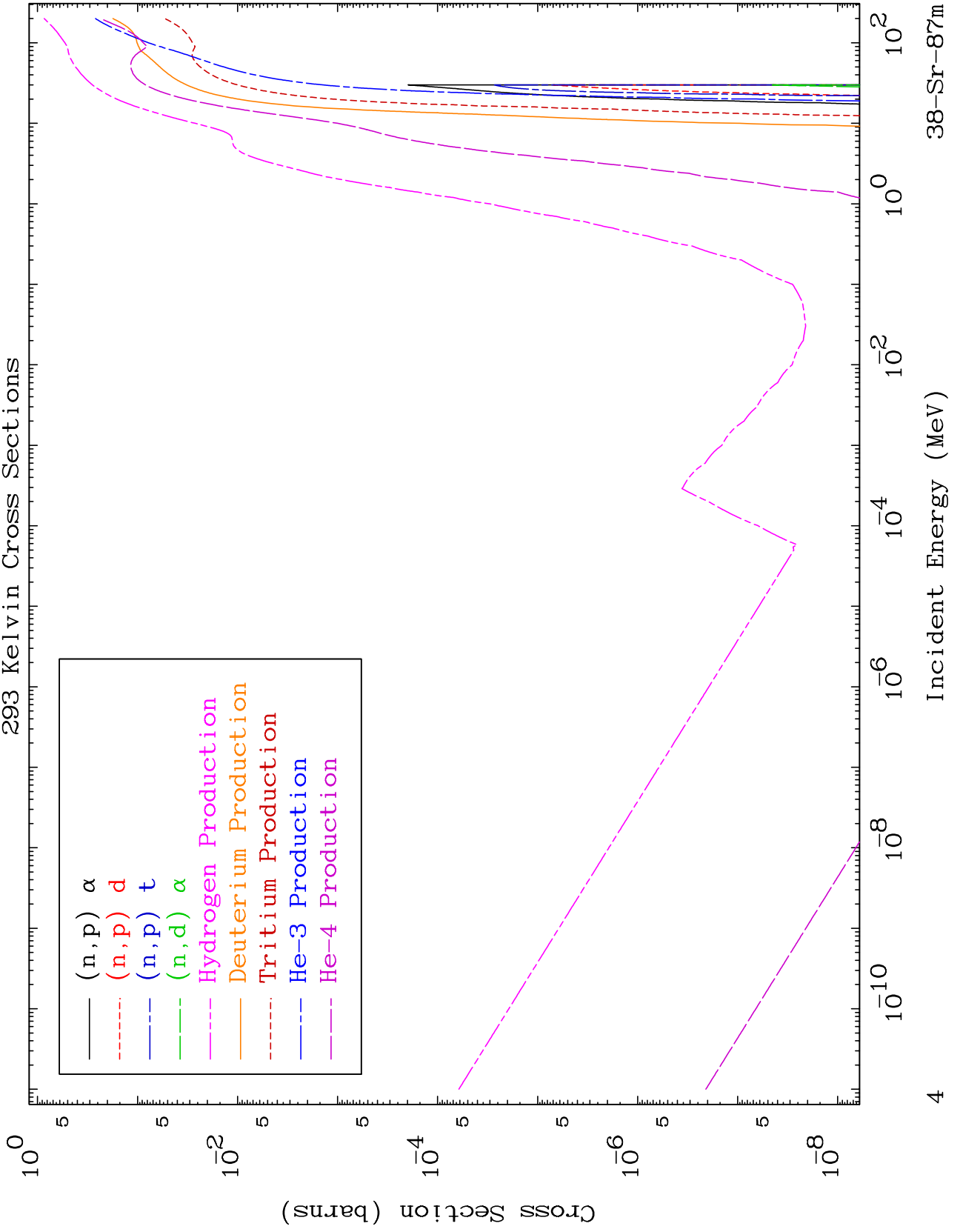
38-Sr-87m



MAT 3835

Neutron Absorption
293 Kelvin Cross Sections

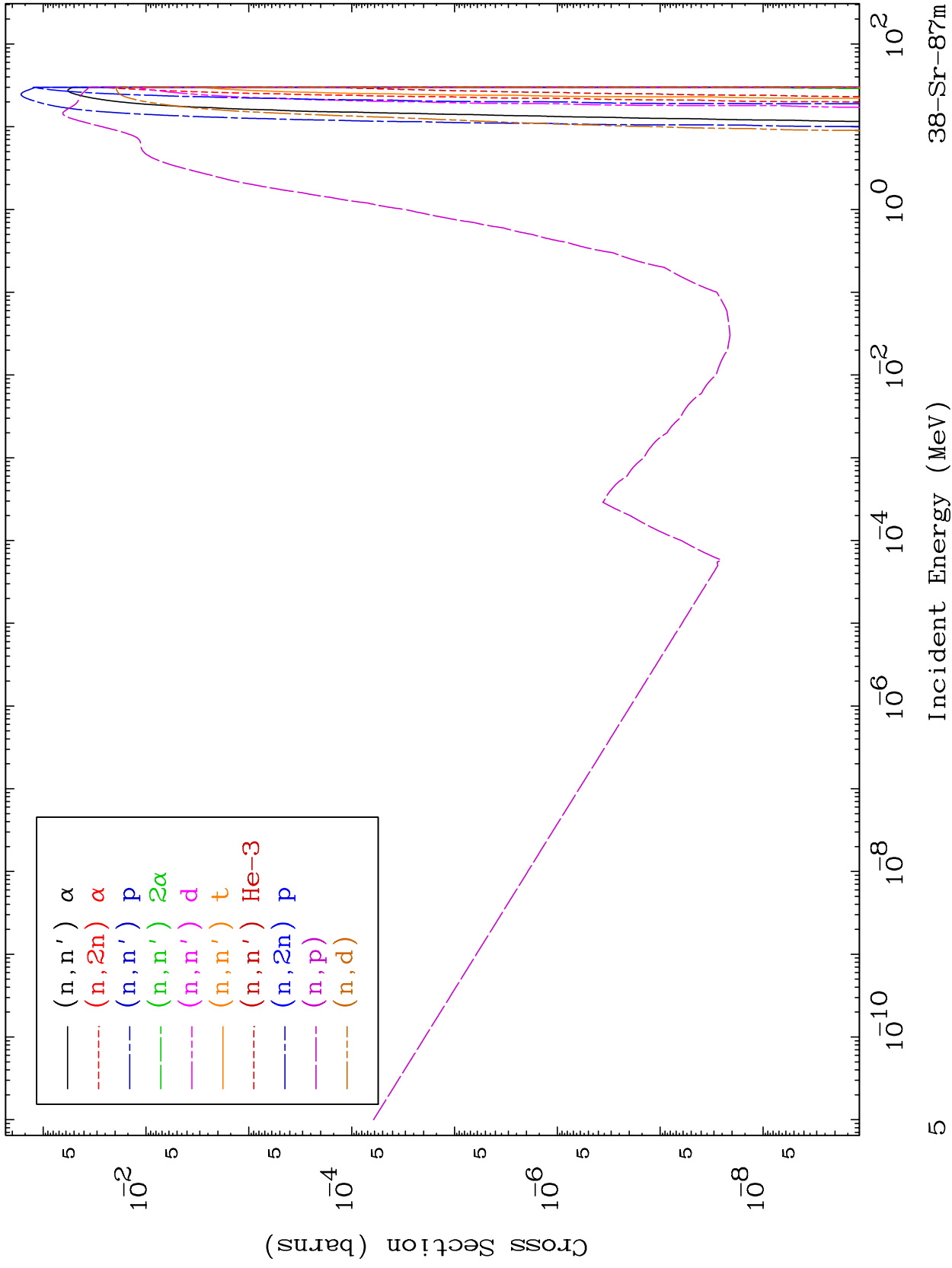
38-Sr-87m



MAT 3835

Charged Particle
293 Kelvin Cross Sections

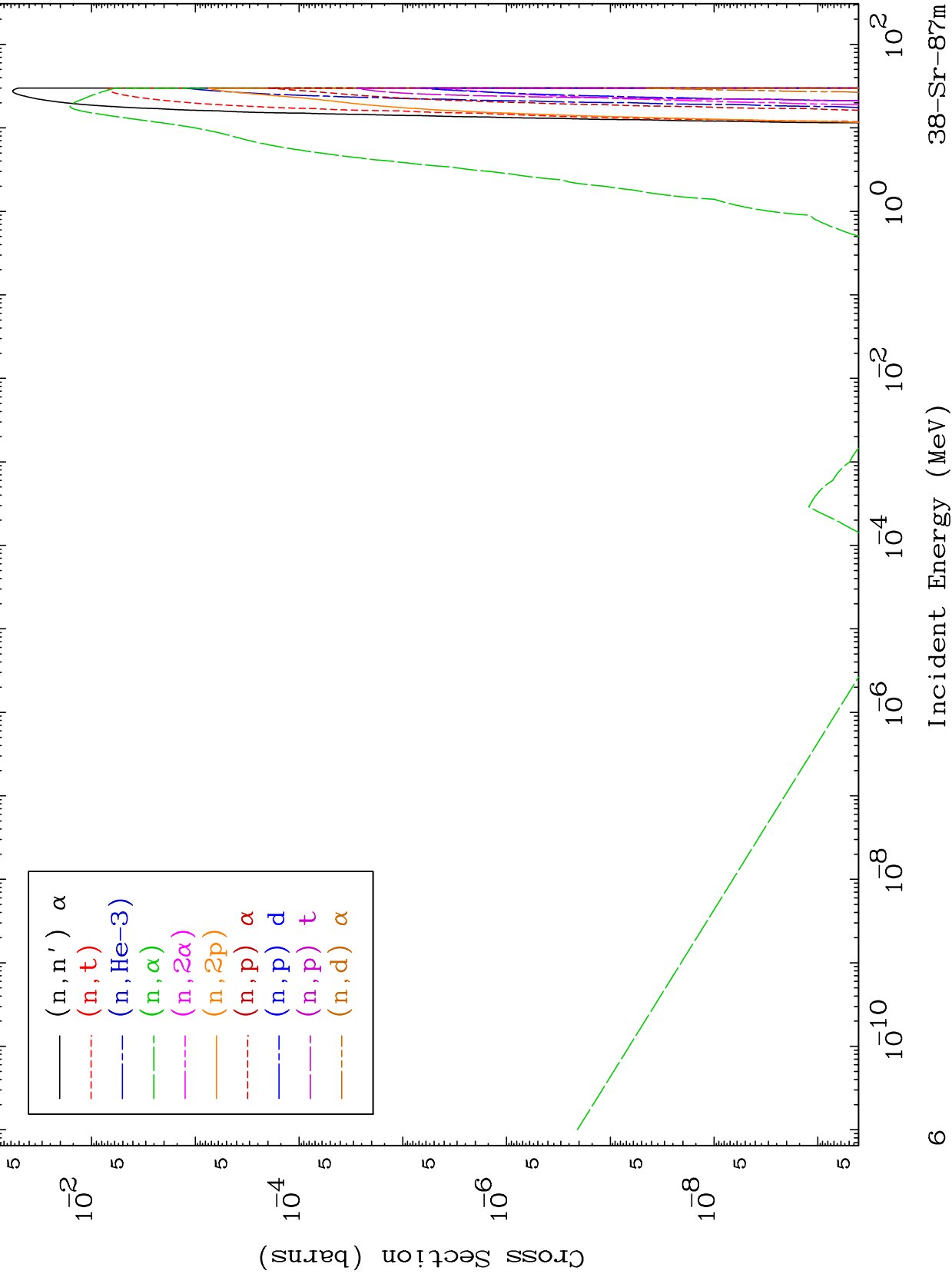
38-Sr-87m



MAT 3835

Charged Particle
293 Kelvin Cross Sections

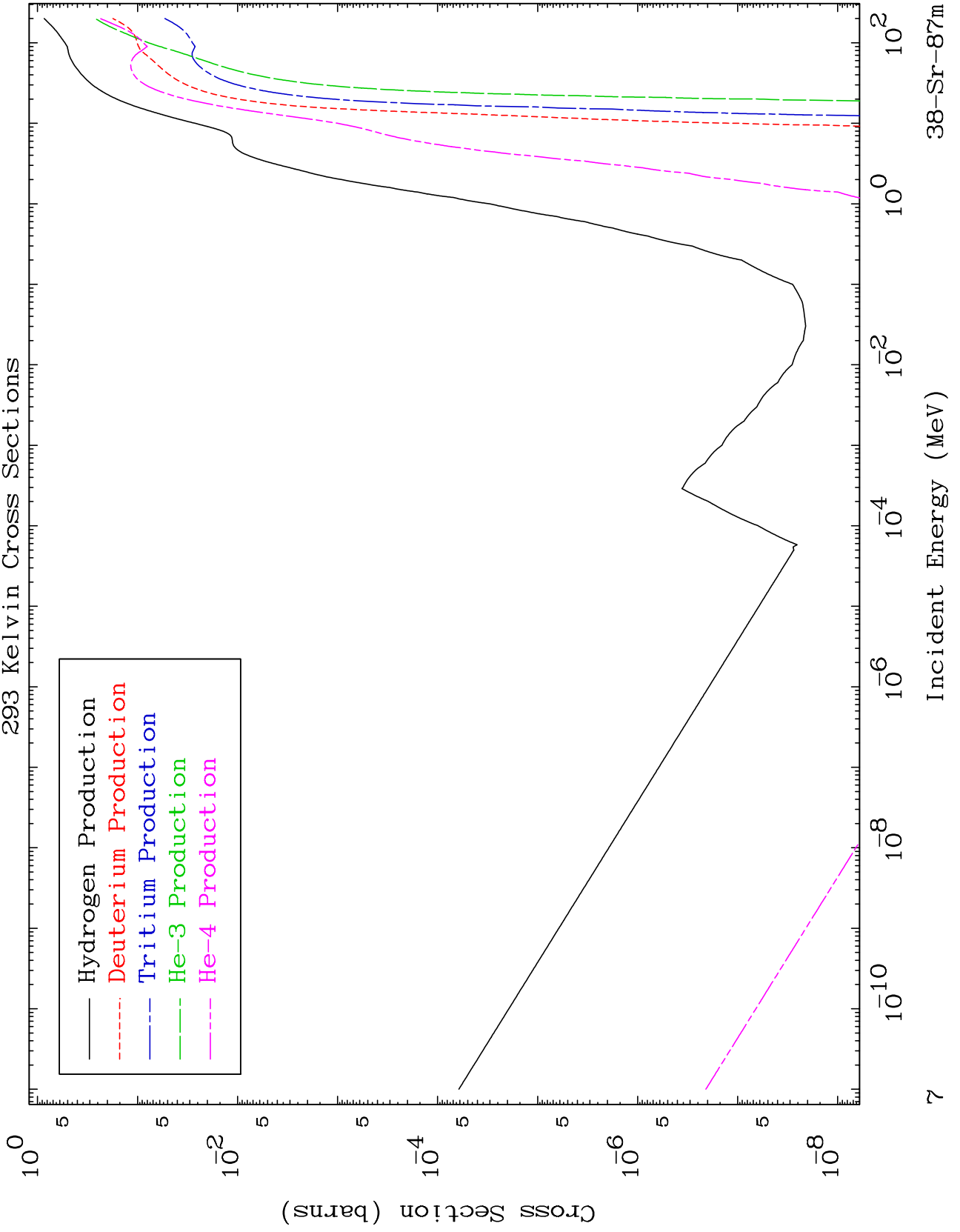
38-Sr-87m

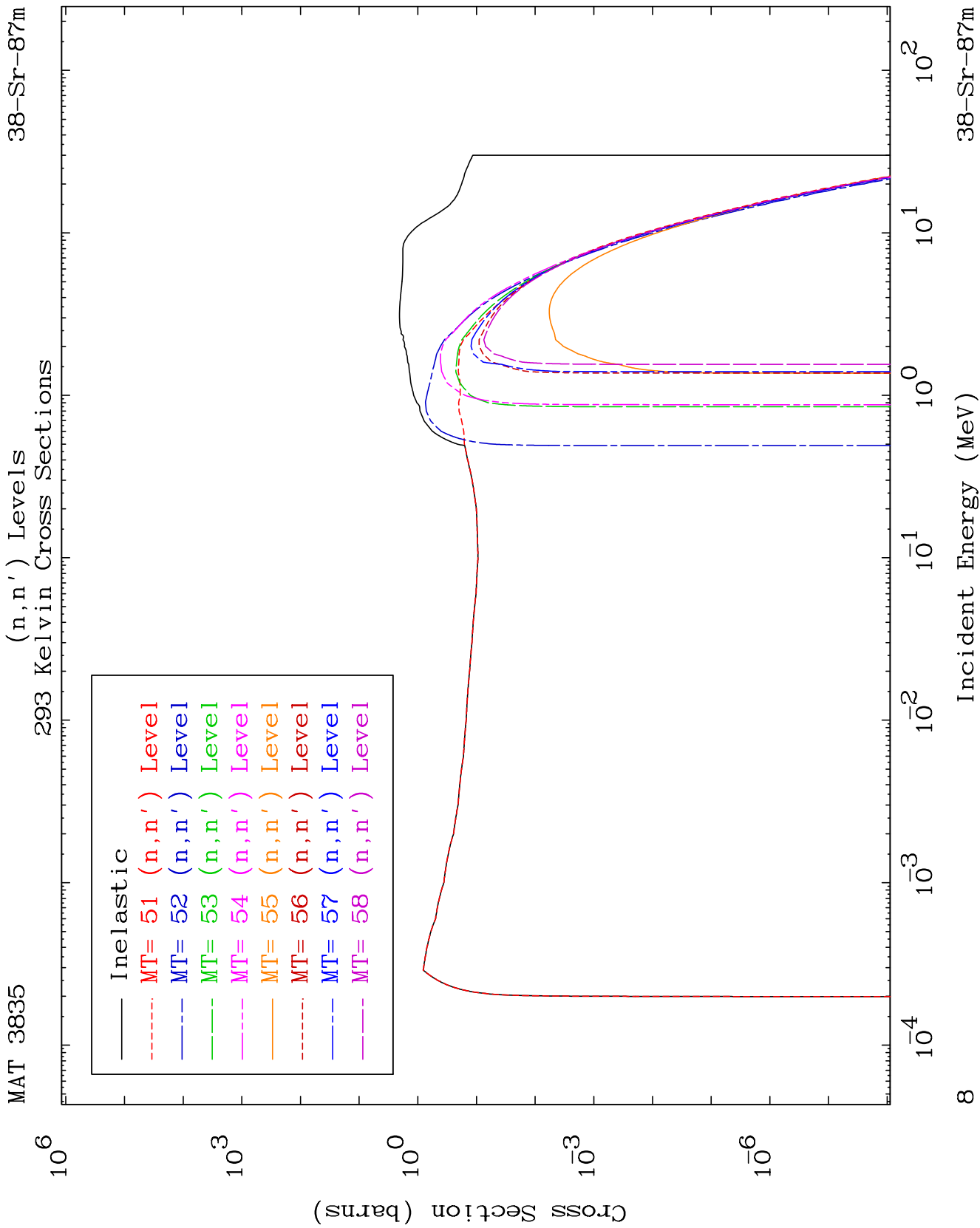


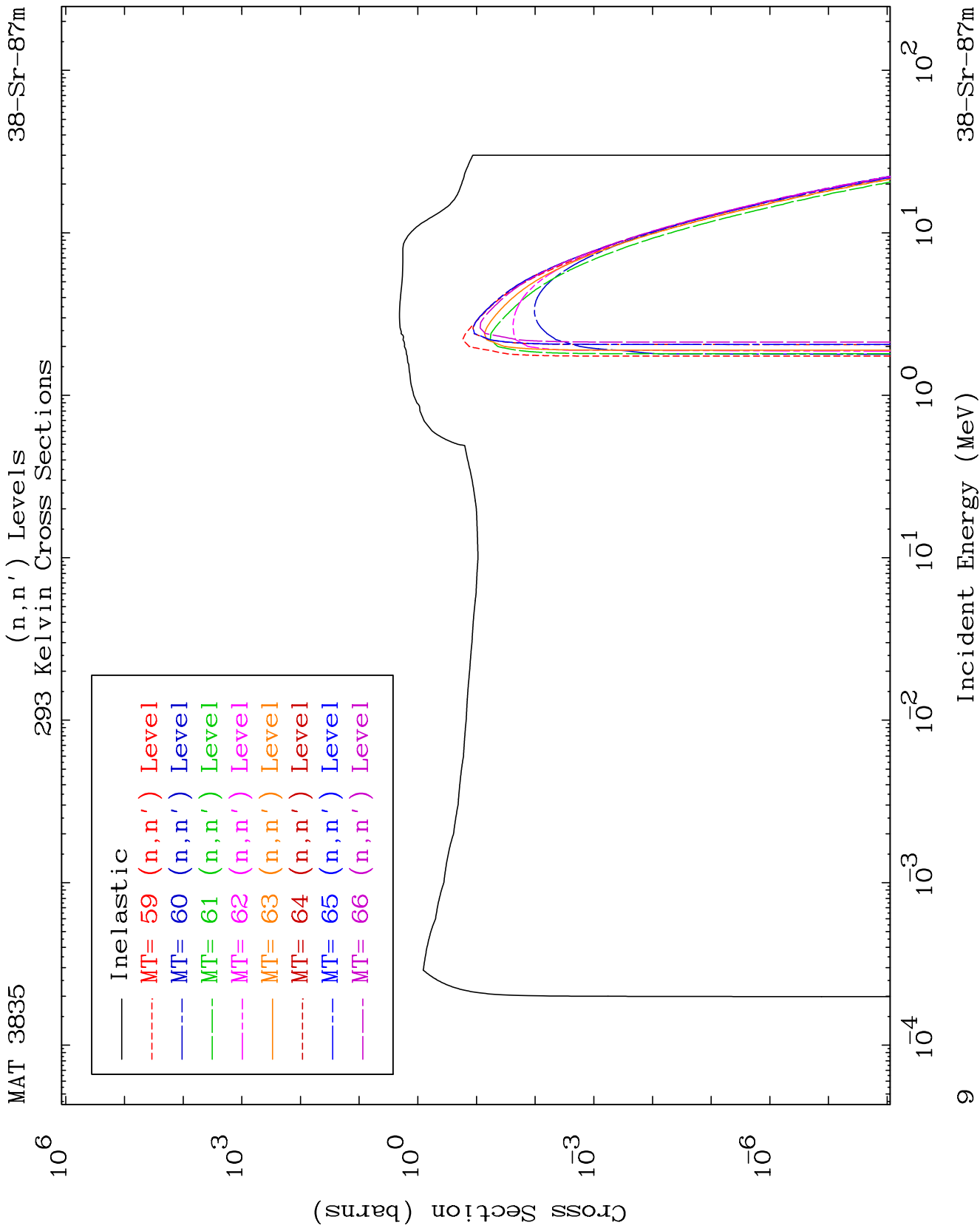
MAT 3835

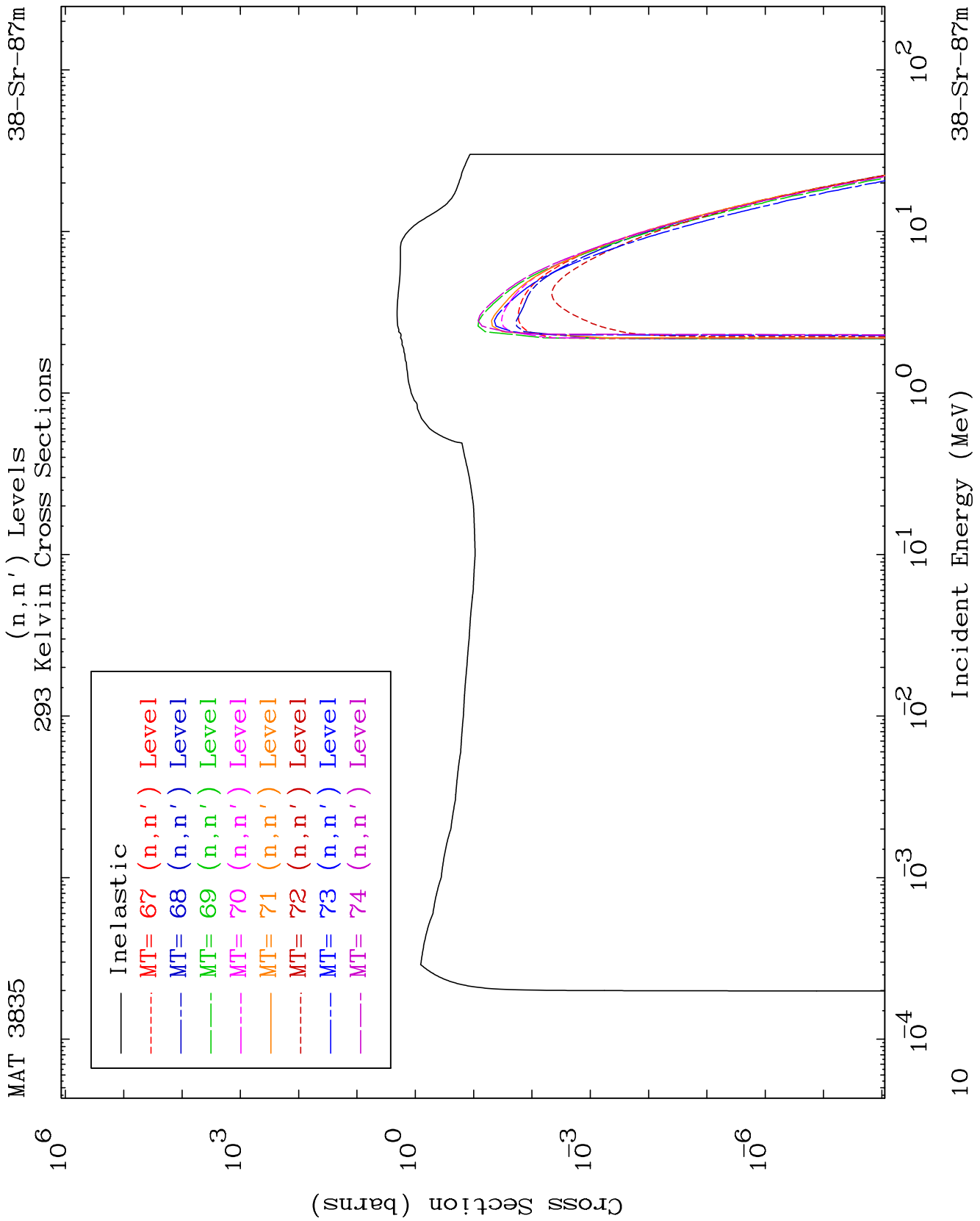
Particle Production
293 Kelvin Cross Sections

38-Sr-87m





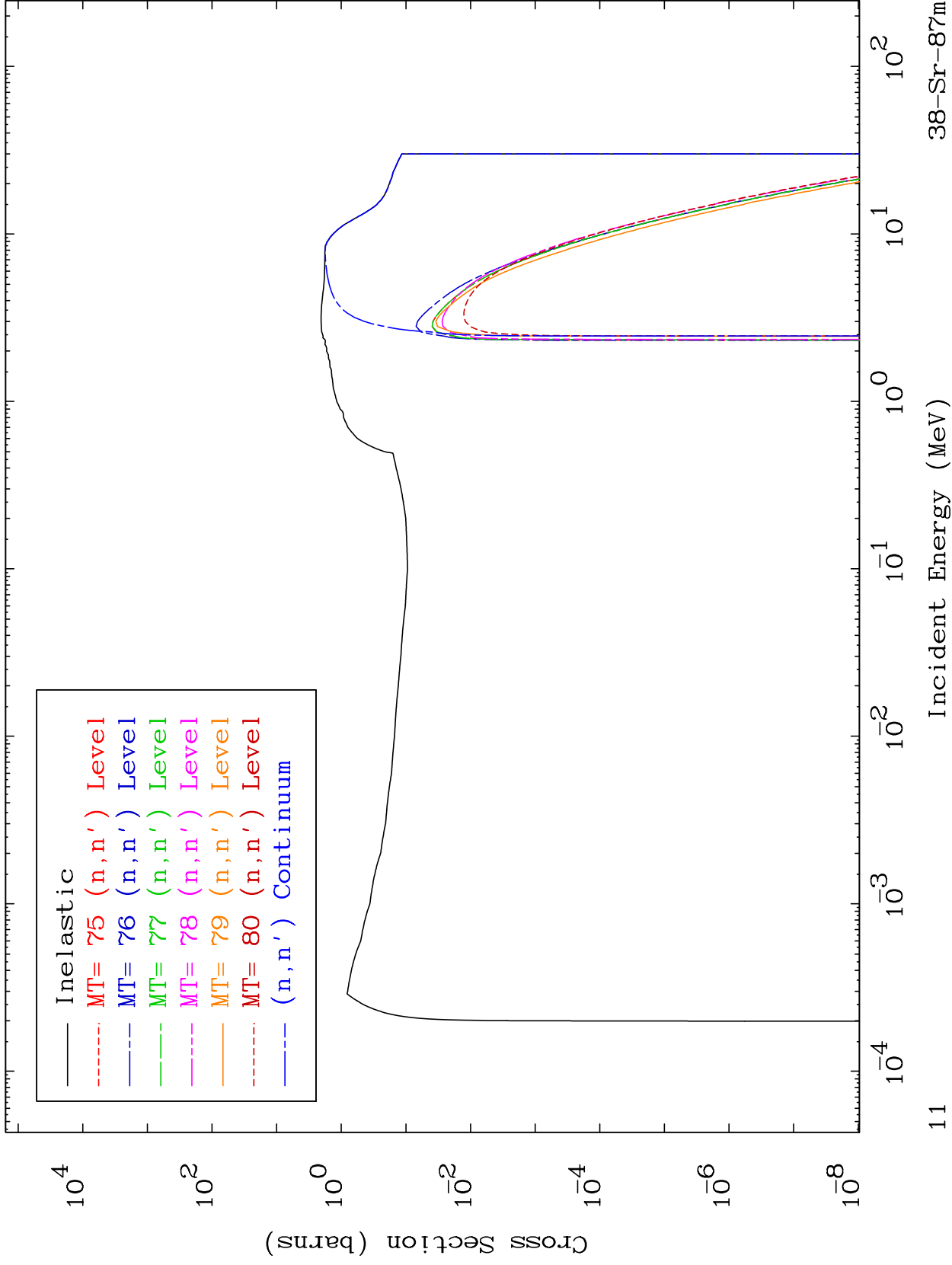




MAT 3835

(n,n') Levels
293 Kelvin Cross Sections

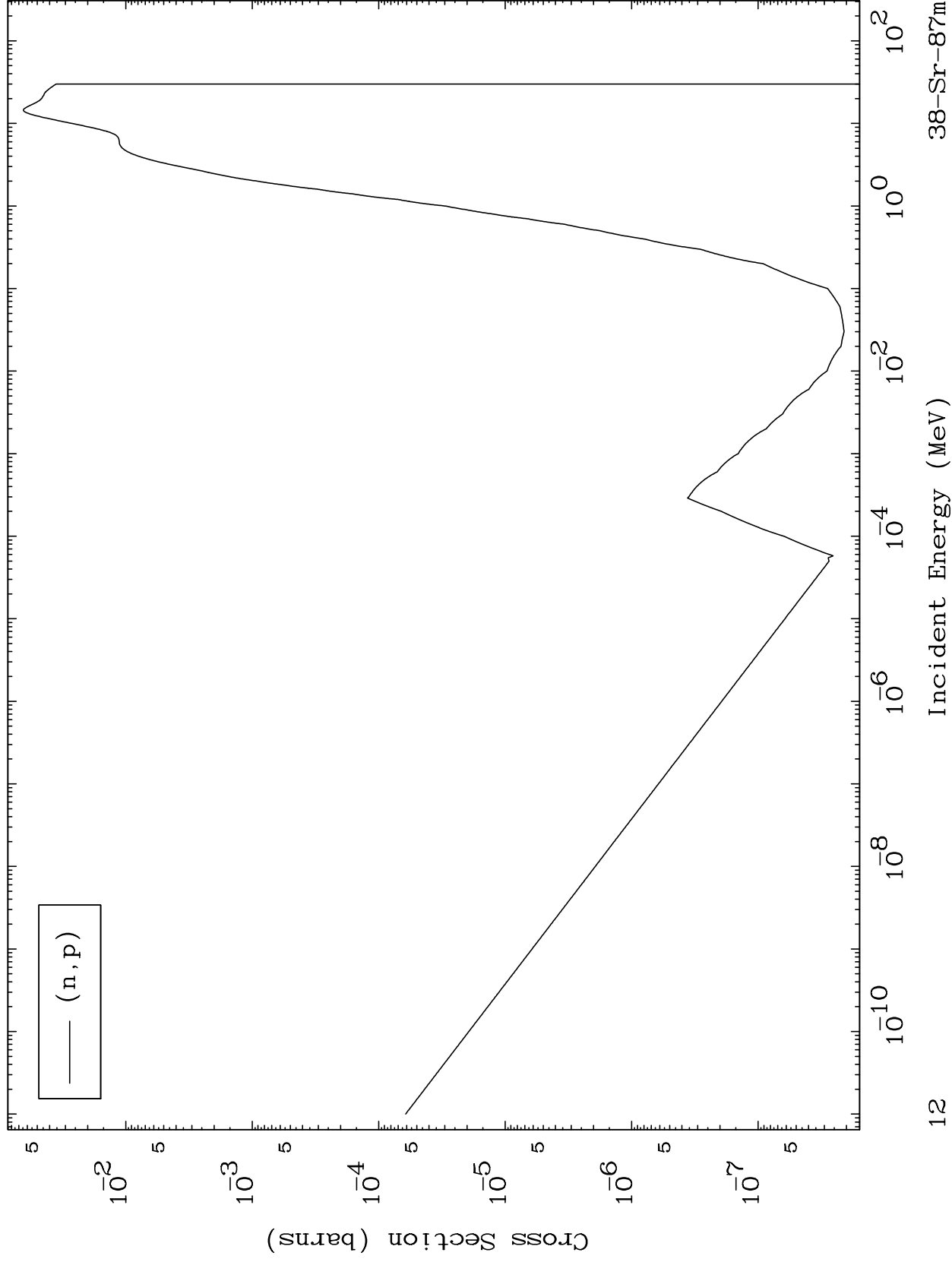
38-Sr-87m



MAT 3835

(n,p) Levels
293 Kelvin Cross Sections

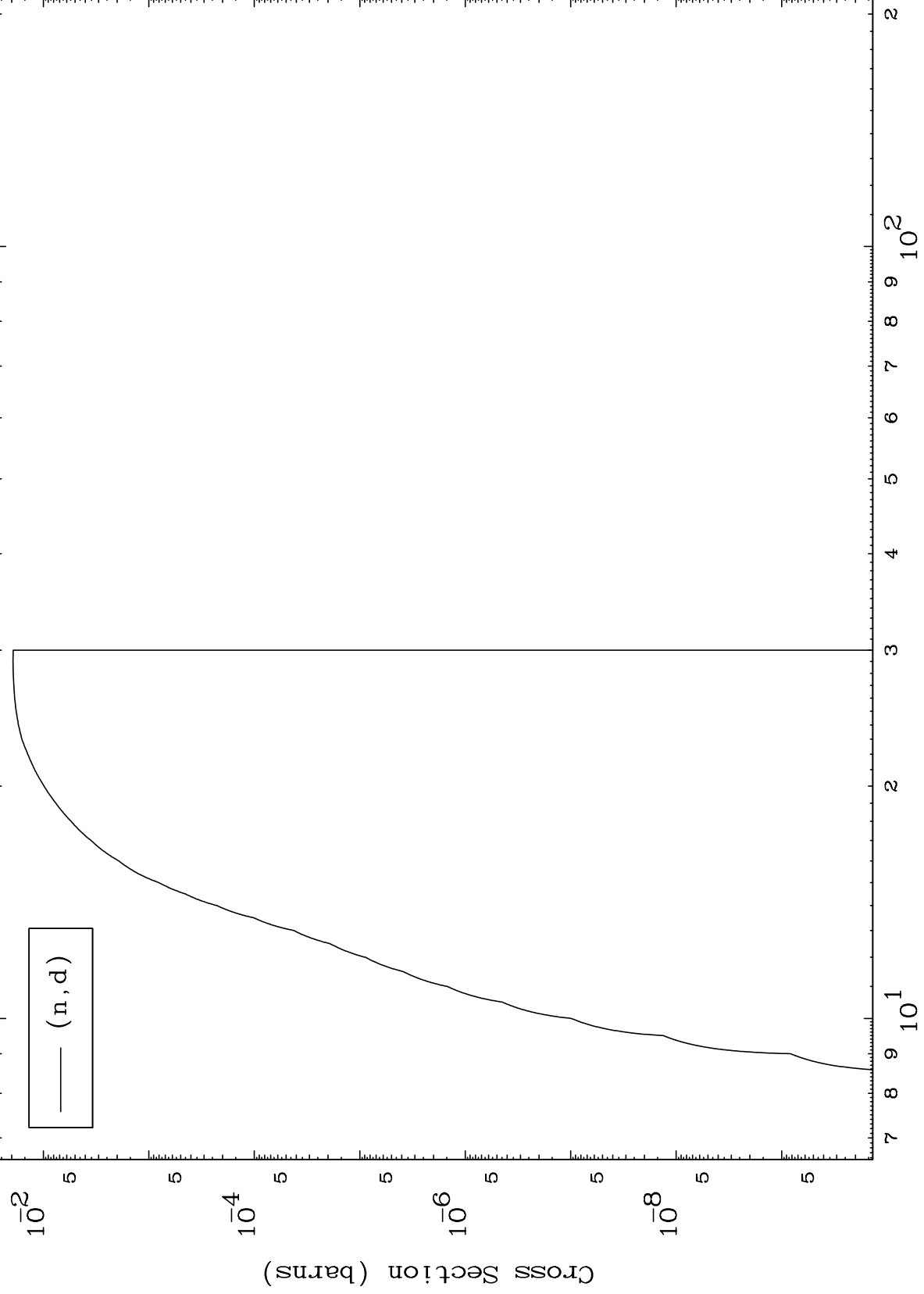
38-Sr-87m



MAT 3835

(n,d) Levels
293 Kelvin Cross Sections

38-Sr-87m



13

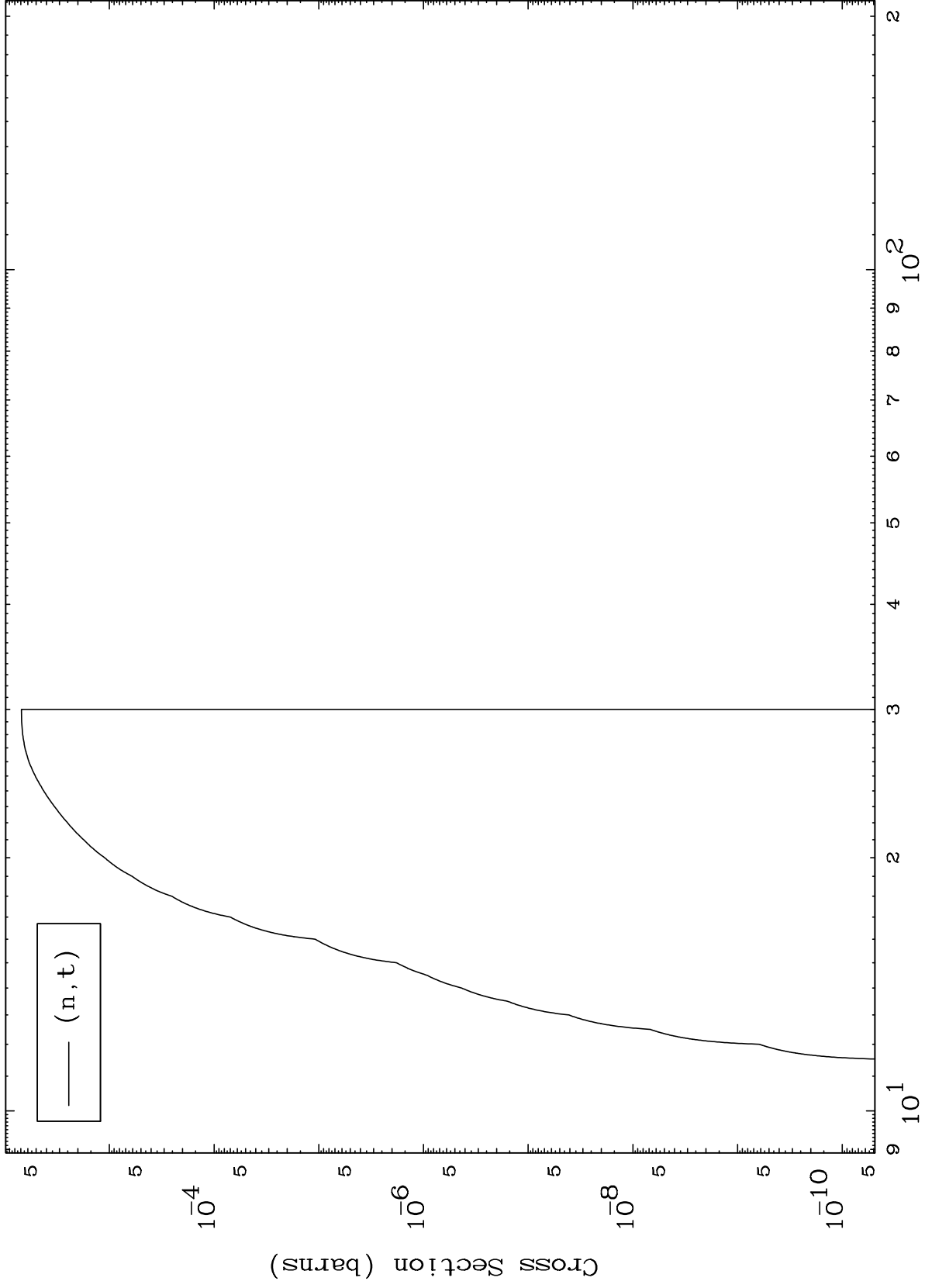
Incident Energy (MeV)

38-Sr-87m

MAT 3835

(n,t) Levels
293 Kelvin Cross Sections

38-Sr-87m



14

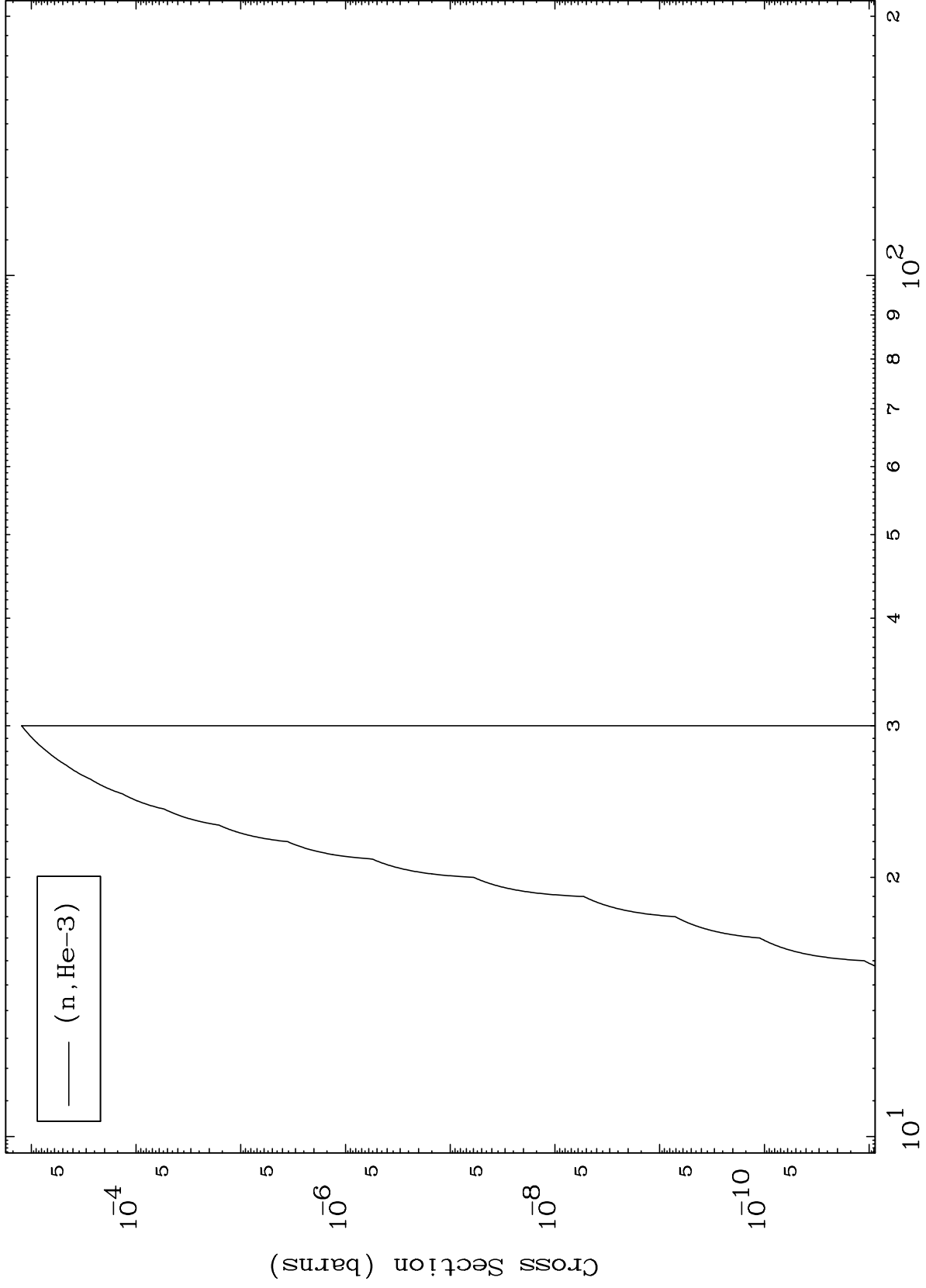
Incident Energy (MeV)

38-Sr-87m

MAT 3835

(n,He3) Levels
293 Kelvin Cross Sections

38-Sr-87m



Incident Energy (MeV)

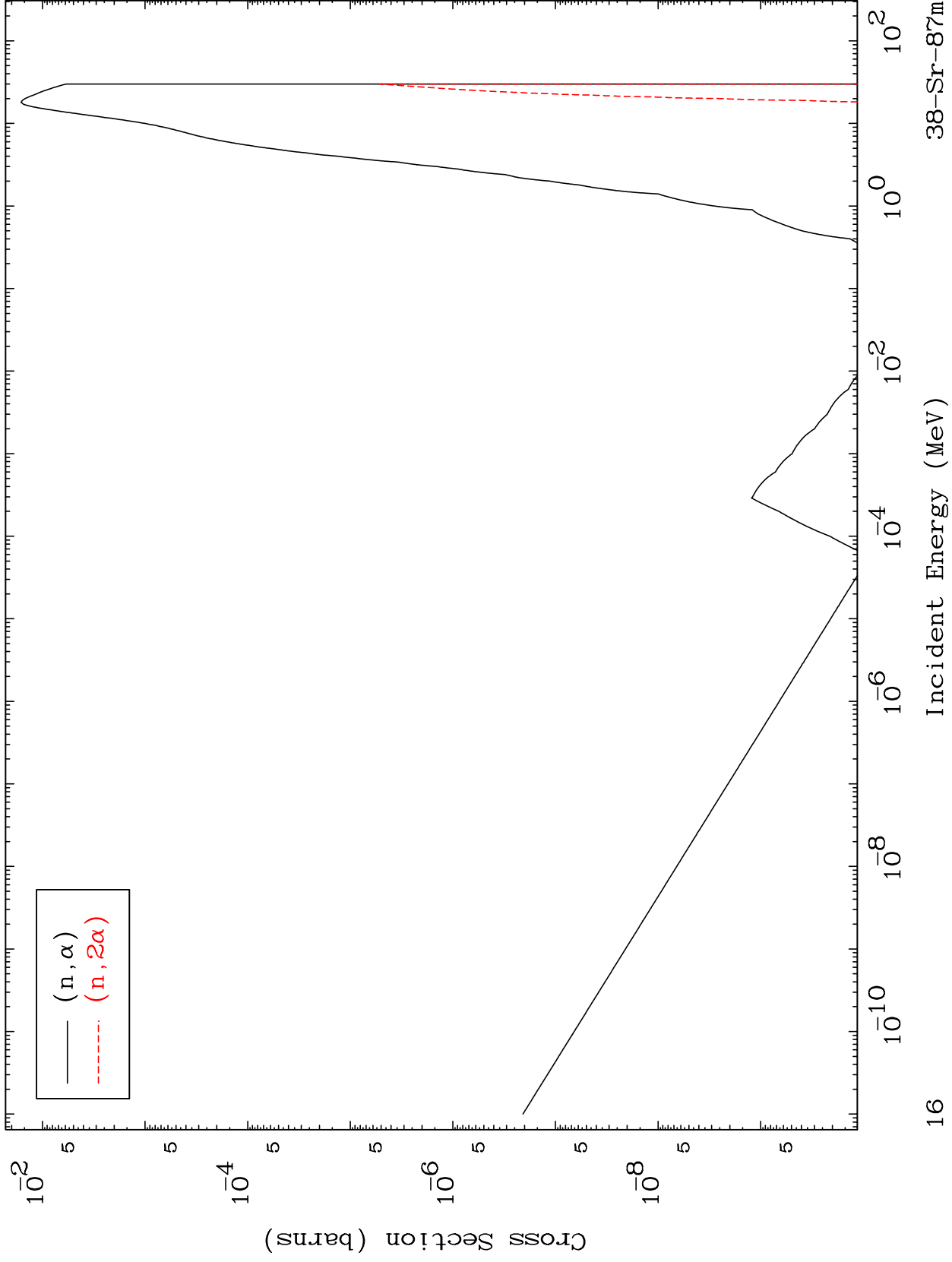
38-Sr-87m

15

MAT 3835

(n, α) Levels
293 Kelvin Cross Sections

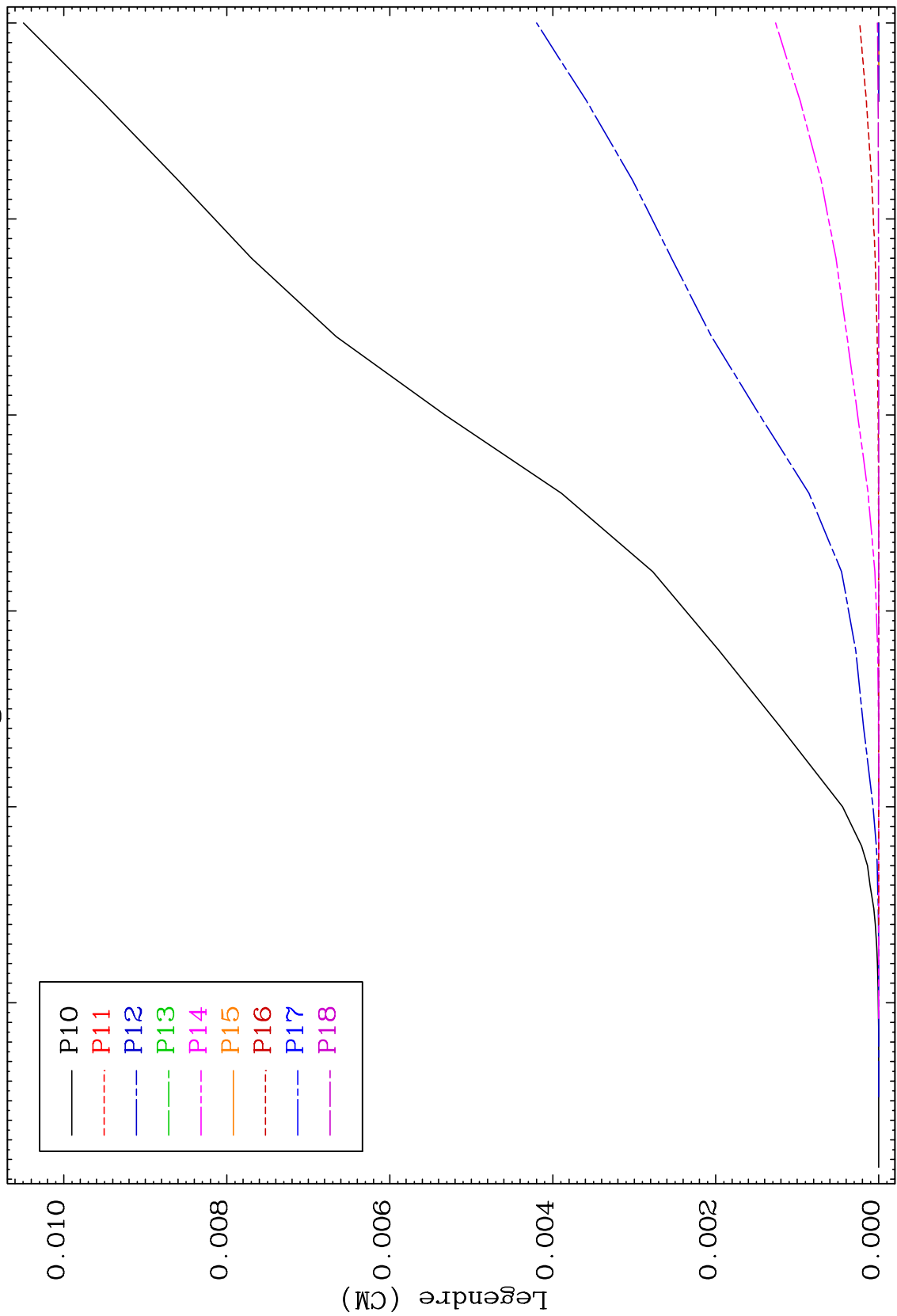
38-Sr-87m



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Elastic Legendre Coefficients

³⁸Sr-⁸⁷m



18

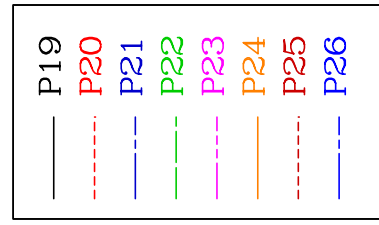
³⁸Sr-⁸⁷m

Incident Energy (MeV)

MAT 3835

Elastic
Legendre Coefficients

38-Sr-87m



$\times 10^{-7}$

Legendre (CM)

8

6

4

2

0

15

20

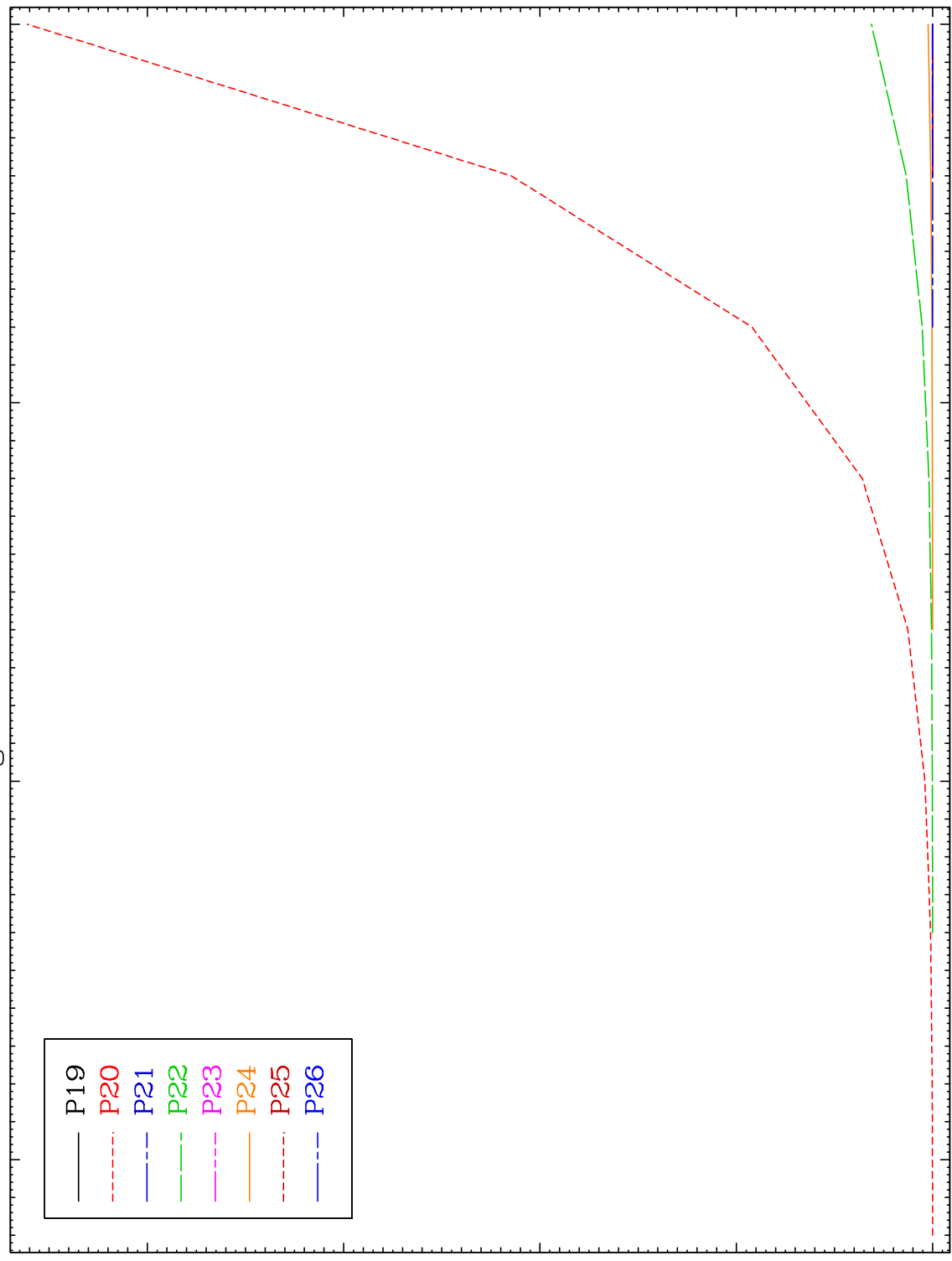
25

30

19

Incident Energy (MeV)

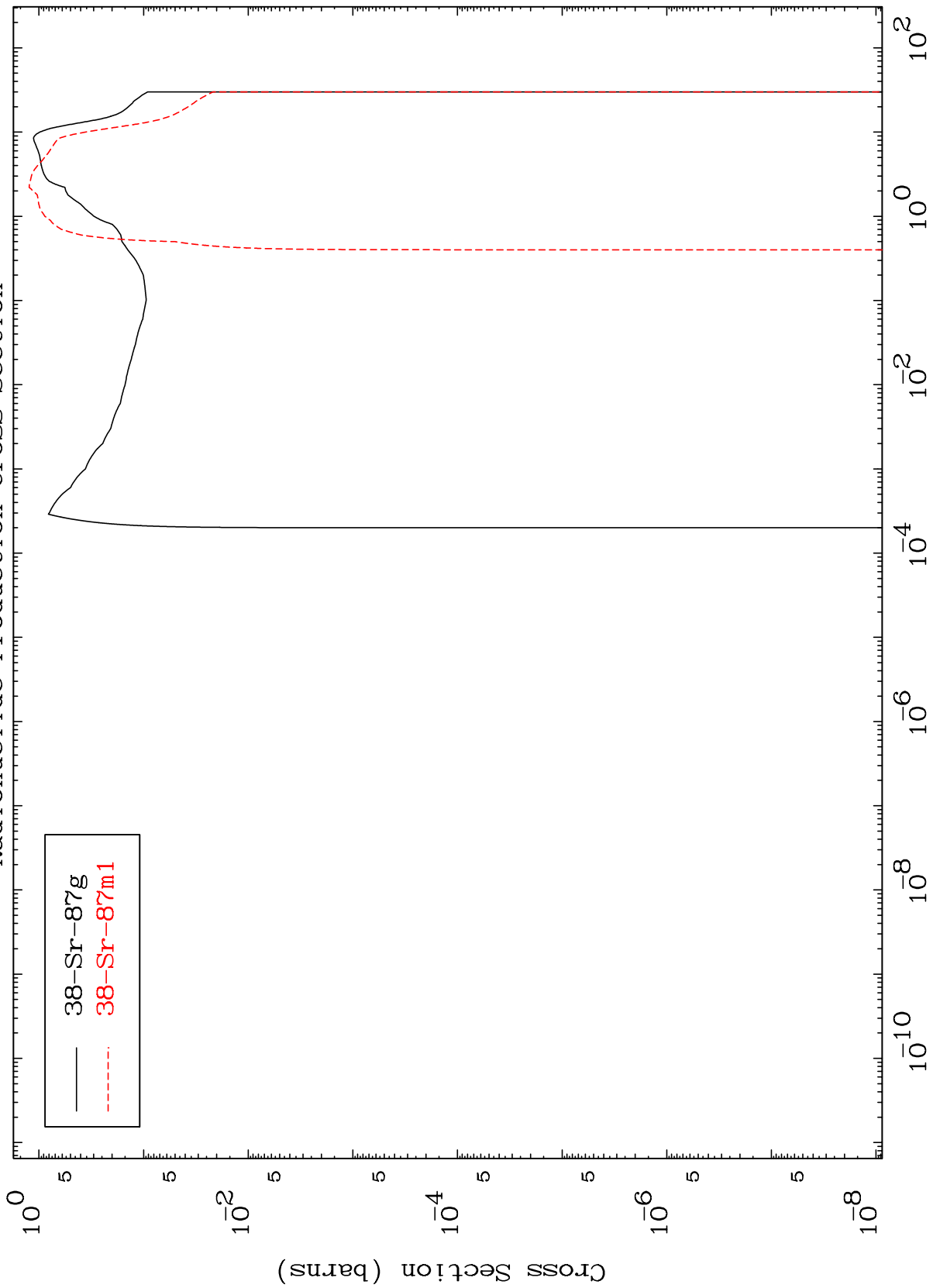
38-Sr-87m



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Inelastic
Radionuclide Production Cross Section

38-Sr-87m



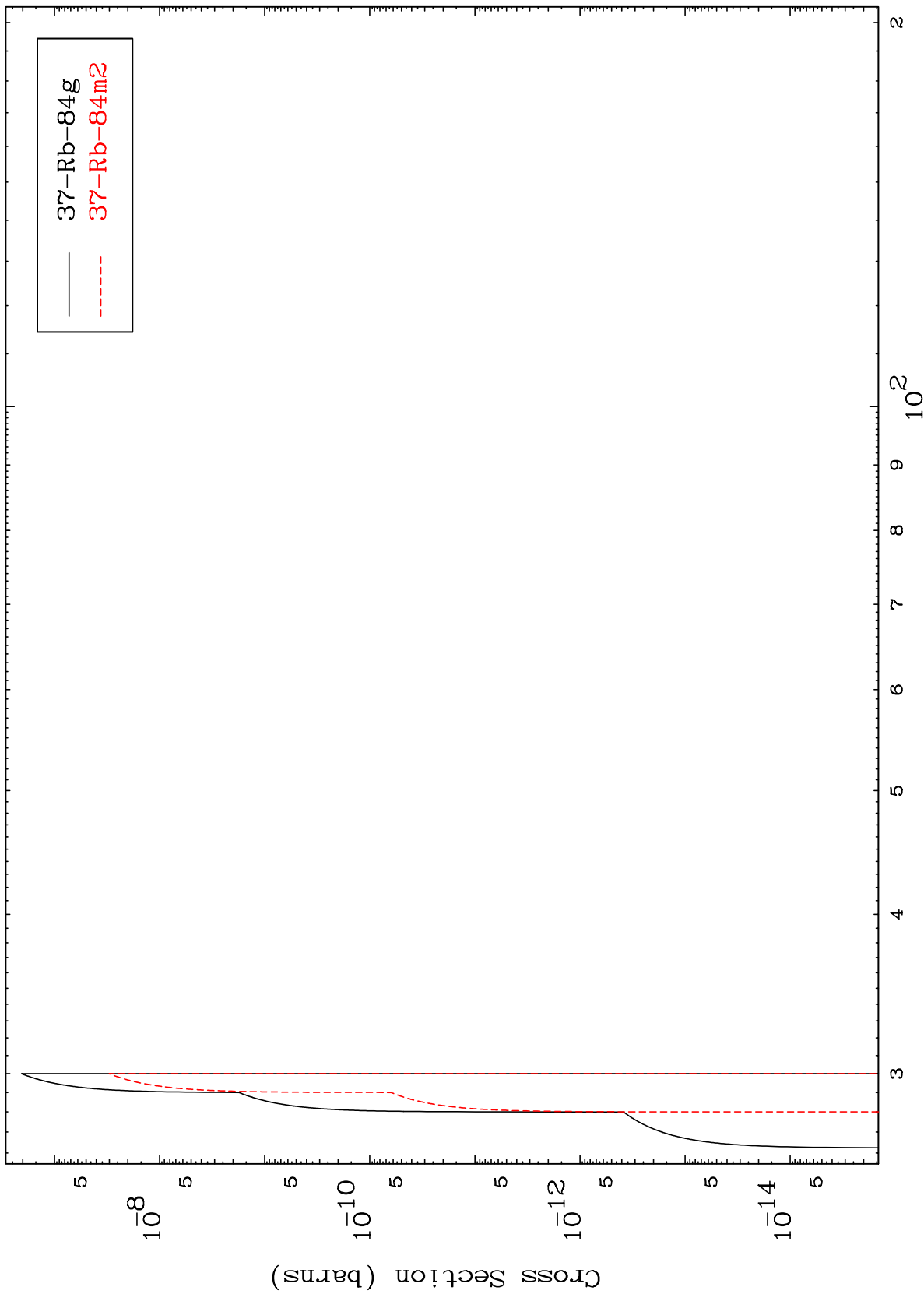
— 38-Sr-87g
- - - 38-Sr-87m1

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(n,2n) d

38-Sr-87m

Radionuclide Production Cross Section



21

Incident Energy (MeV)

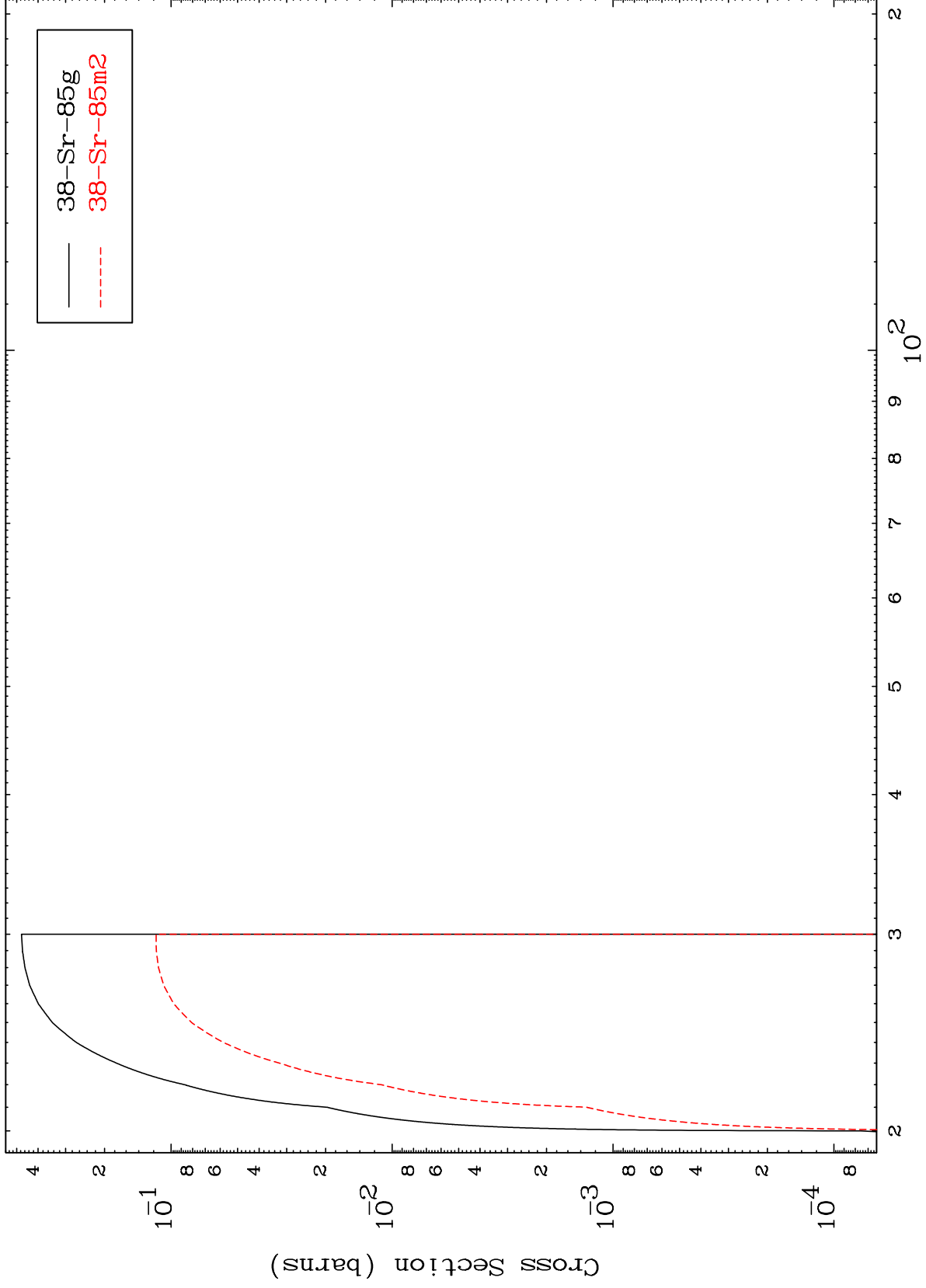
38-Sr-87m

MAT 3835

(n,3n)

38-Sr-87m

Radionuclide Production Cross Section



22

Incident Energy (MeV)

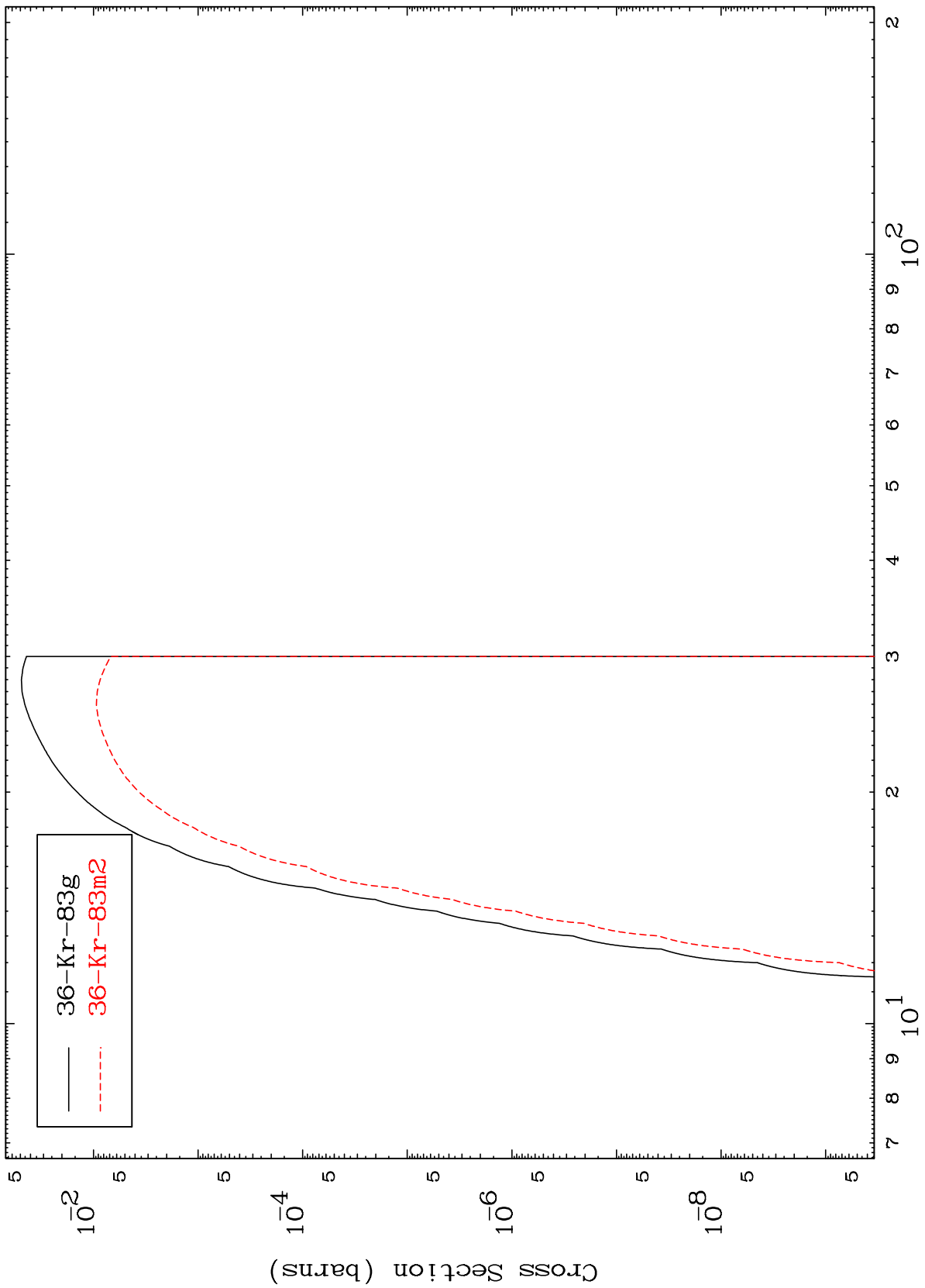
38-Sr-87m

MAT 3835

$(n, n') \alpha$

$^{38}\text{Sr-87m}$

Radionuclide Production Cross Section



23

Incident Energy (MeV)

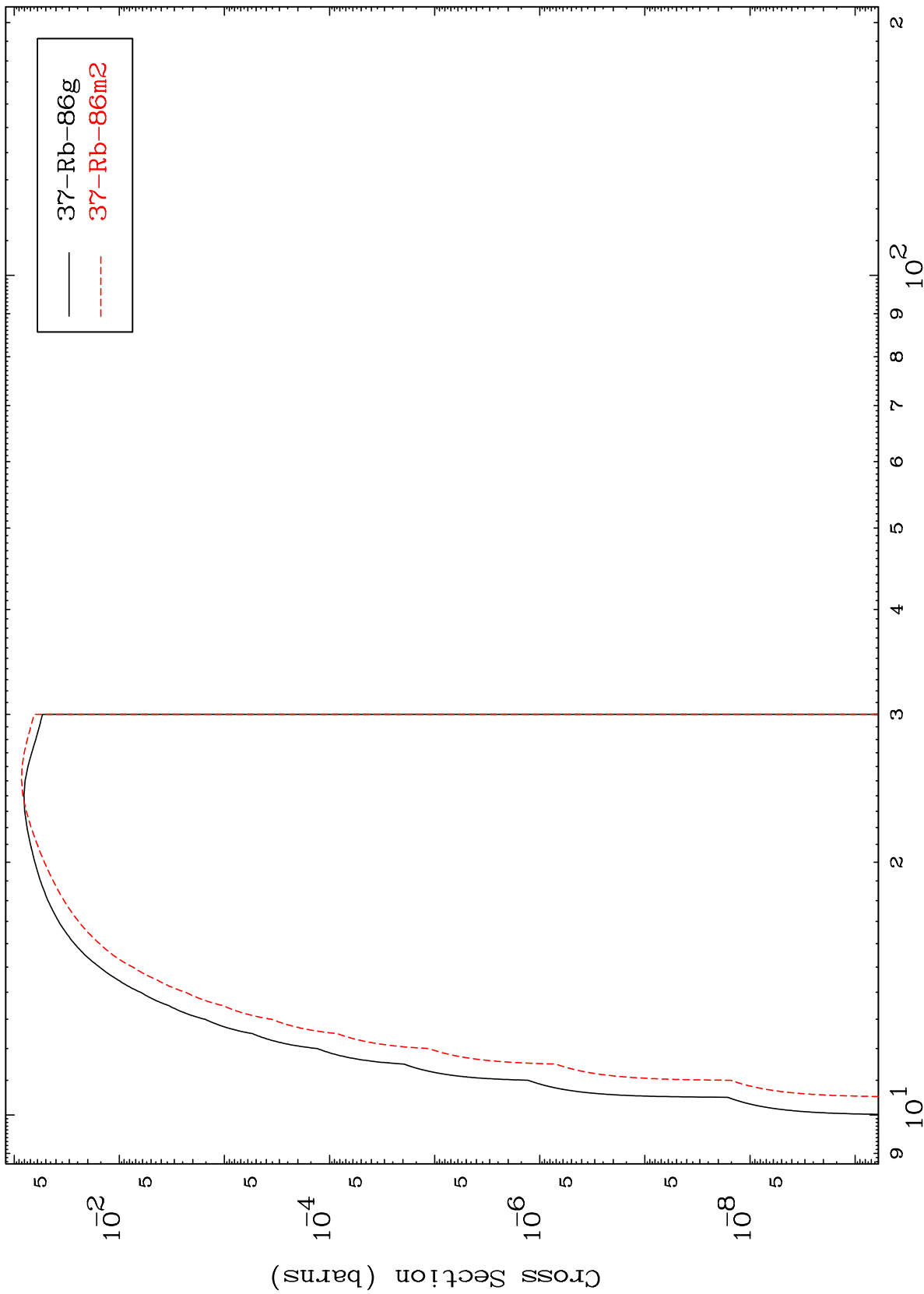
$^{38}\text{Sr-87m}$

MAT 3835

(n,n') p

38-Sr-87m

Radionuclide Production Cross Section



24

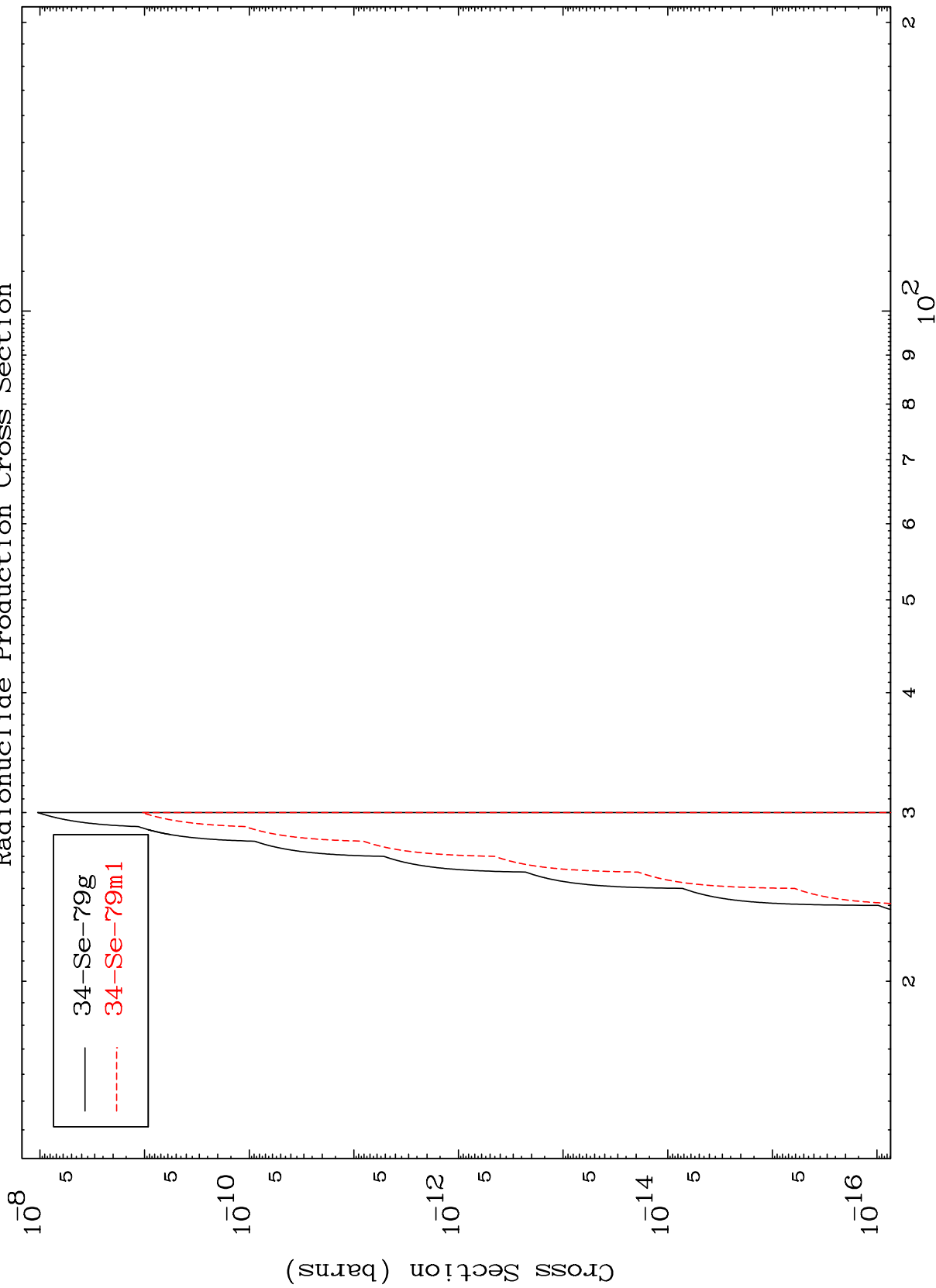
Incident Energy (MeV)

38-Sr-87m

MAT 3835

38-Sr-87m

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



Incident Energy (MeV)

38-Sr-87m

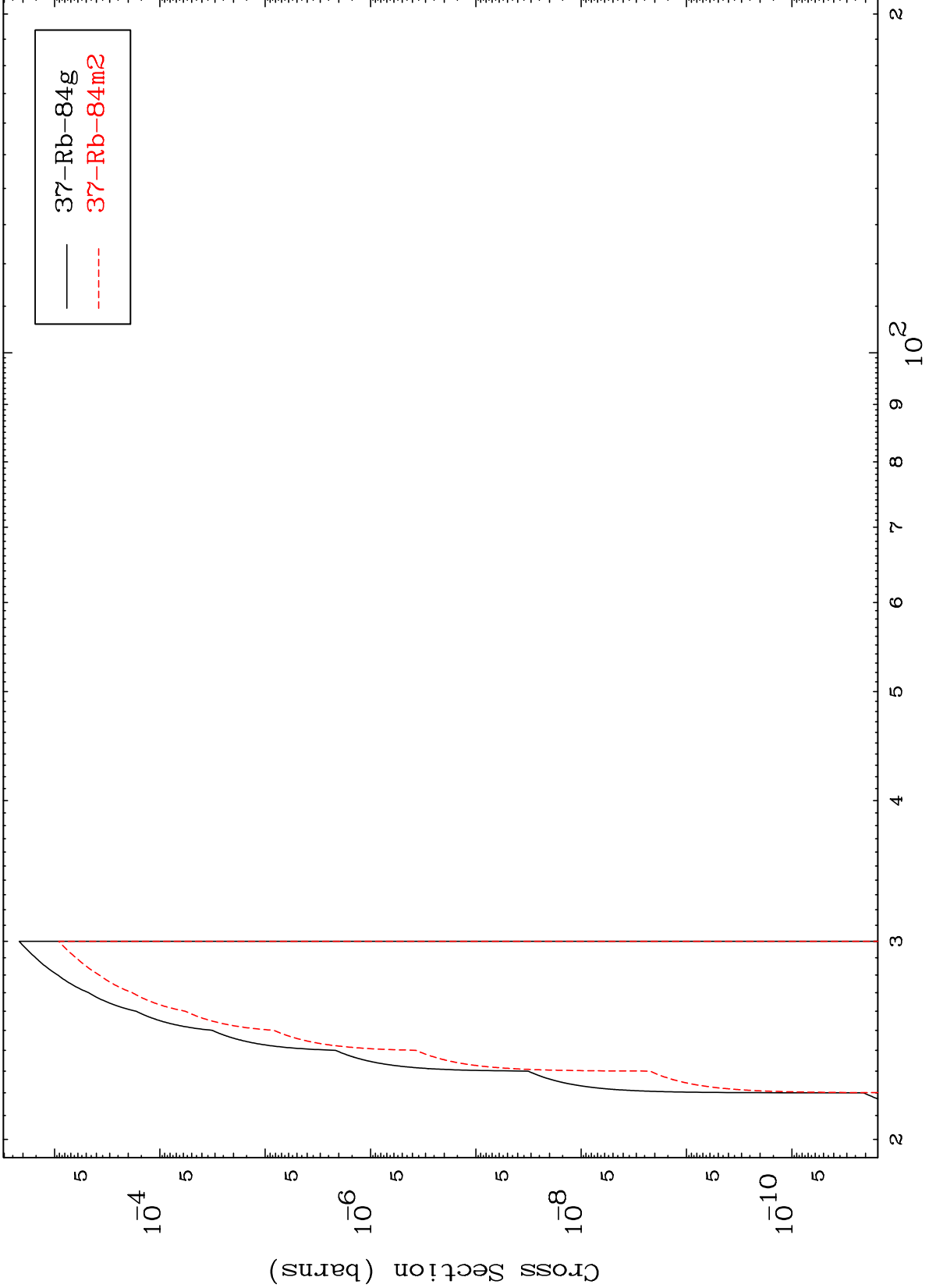
25

MAT 3835

(n,n') t

38-Sr-87m

Radionuclide Production Cross Section



26

Incident Energy (MeV)

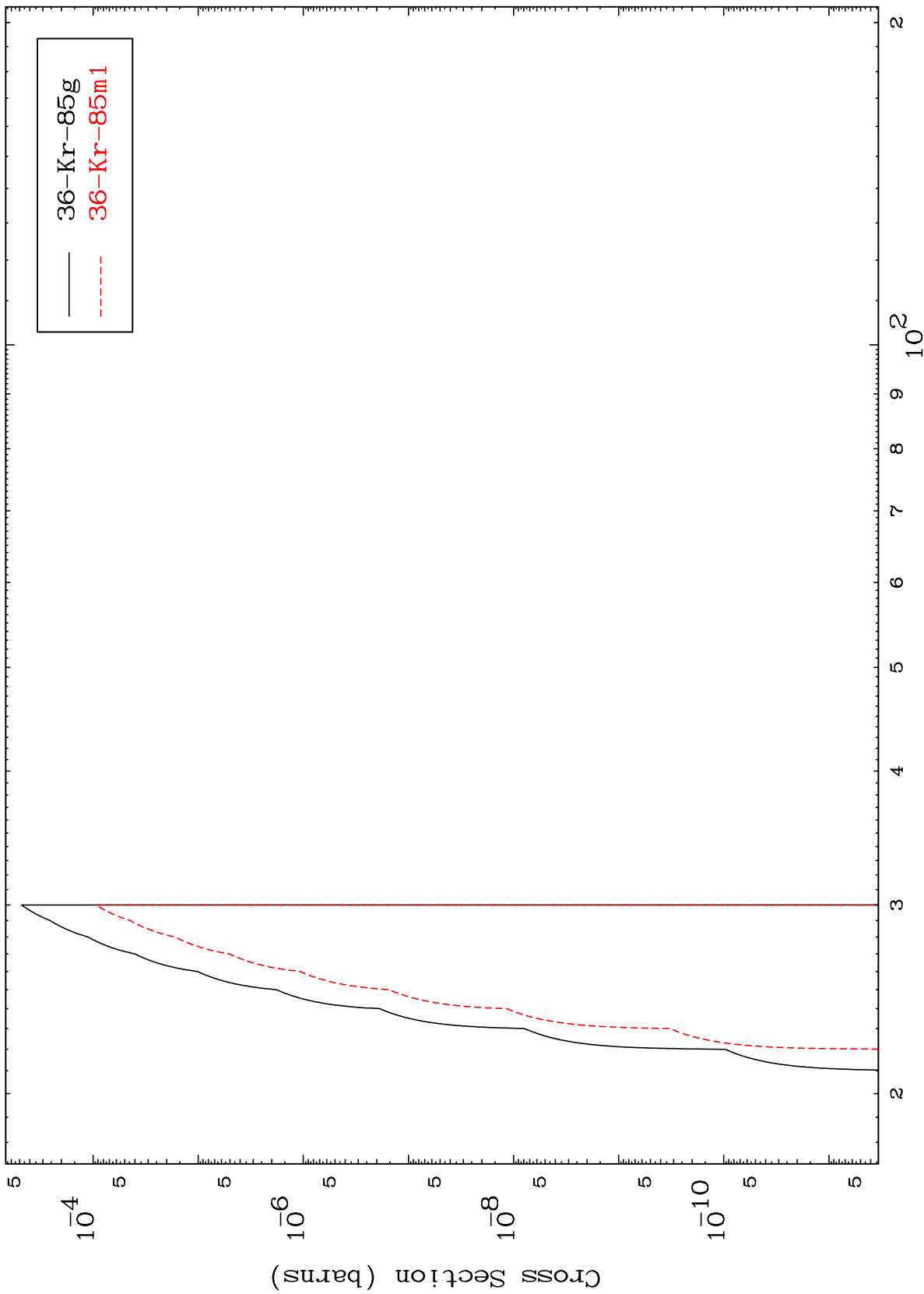
38-Sr-87m

MAT 3835

(n,2n) p

38-Sr-87m

Radionuclide Production Cross Section



36-Kr-85g
36-Kr-85m1

27

Incident Energy (MeV)

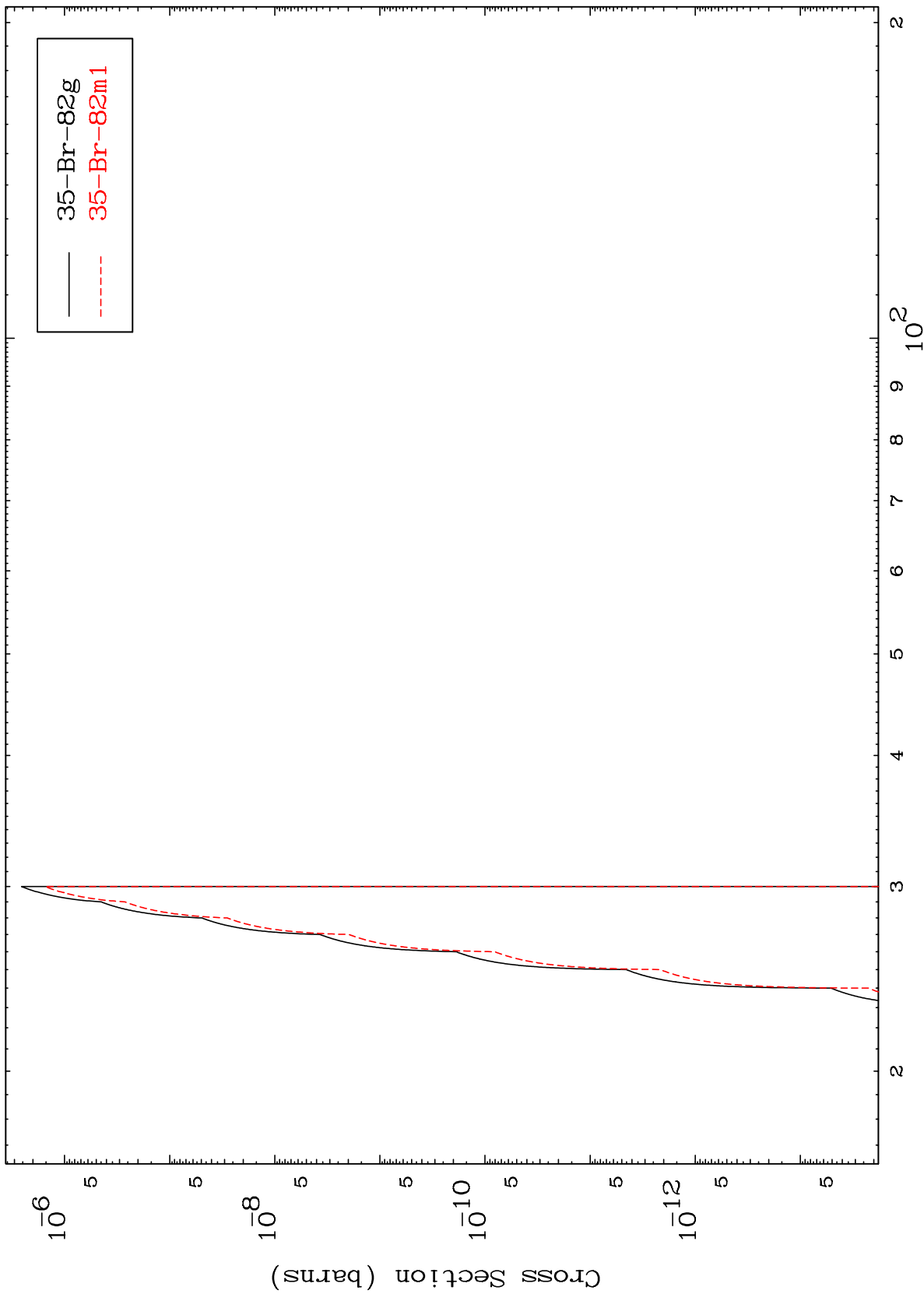
38-Sr-87m

MAT 3835

(n,n') p α

38-Sr-87m

Radionuclide Production Cross Section



28

Incident Energy (MeV)

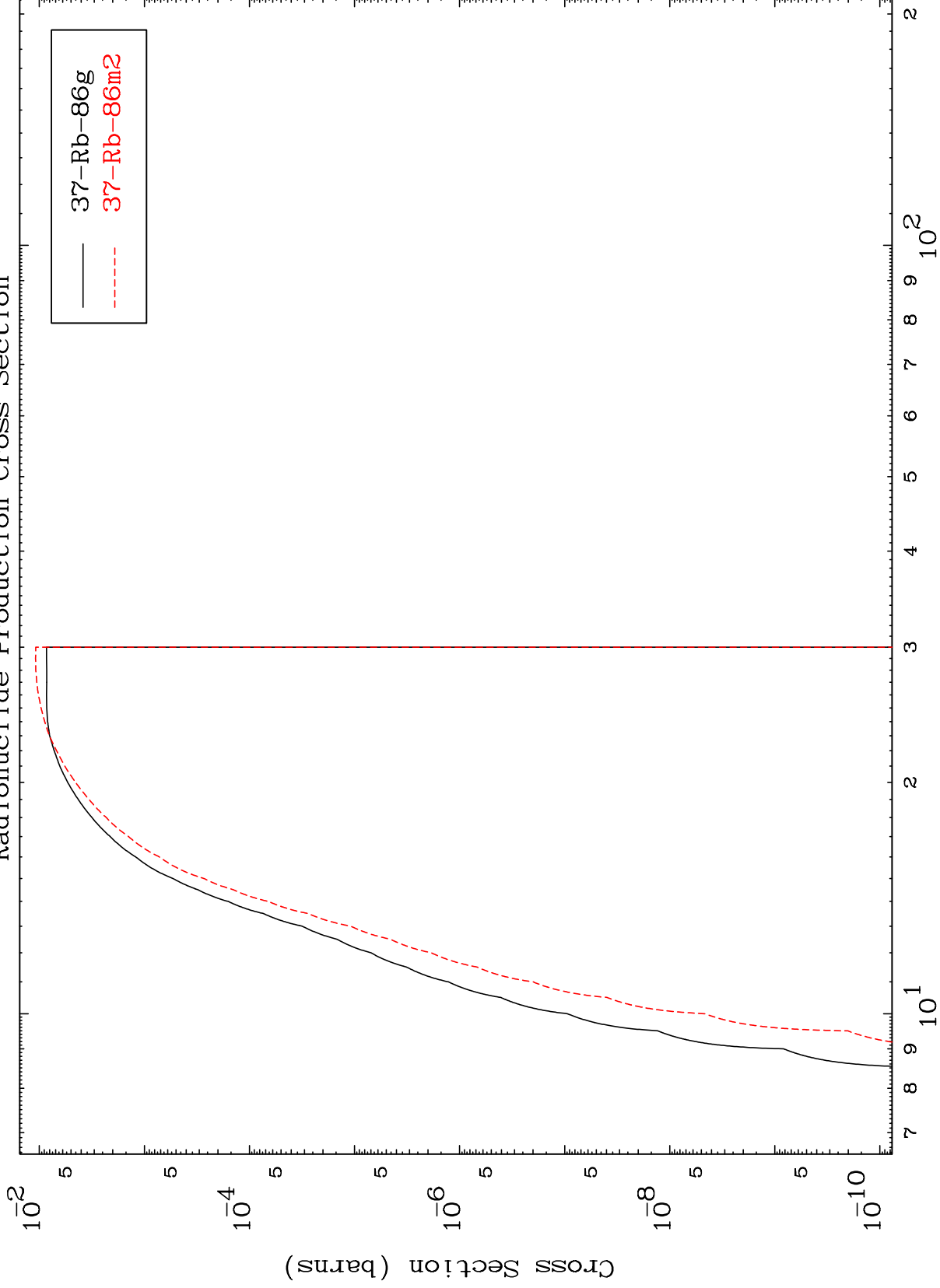
38-Sr-87m

MAT 3835

(n,d)

38-Sr-87m

Radionuclide Production Cross Section



29

Incident Energy (MeV)

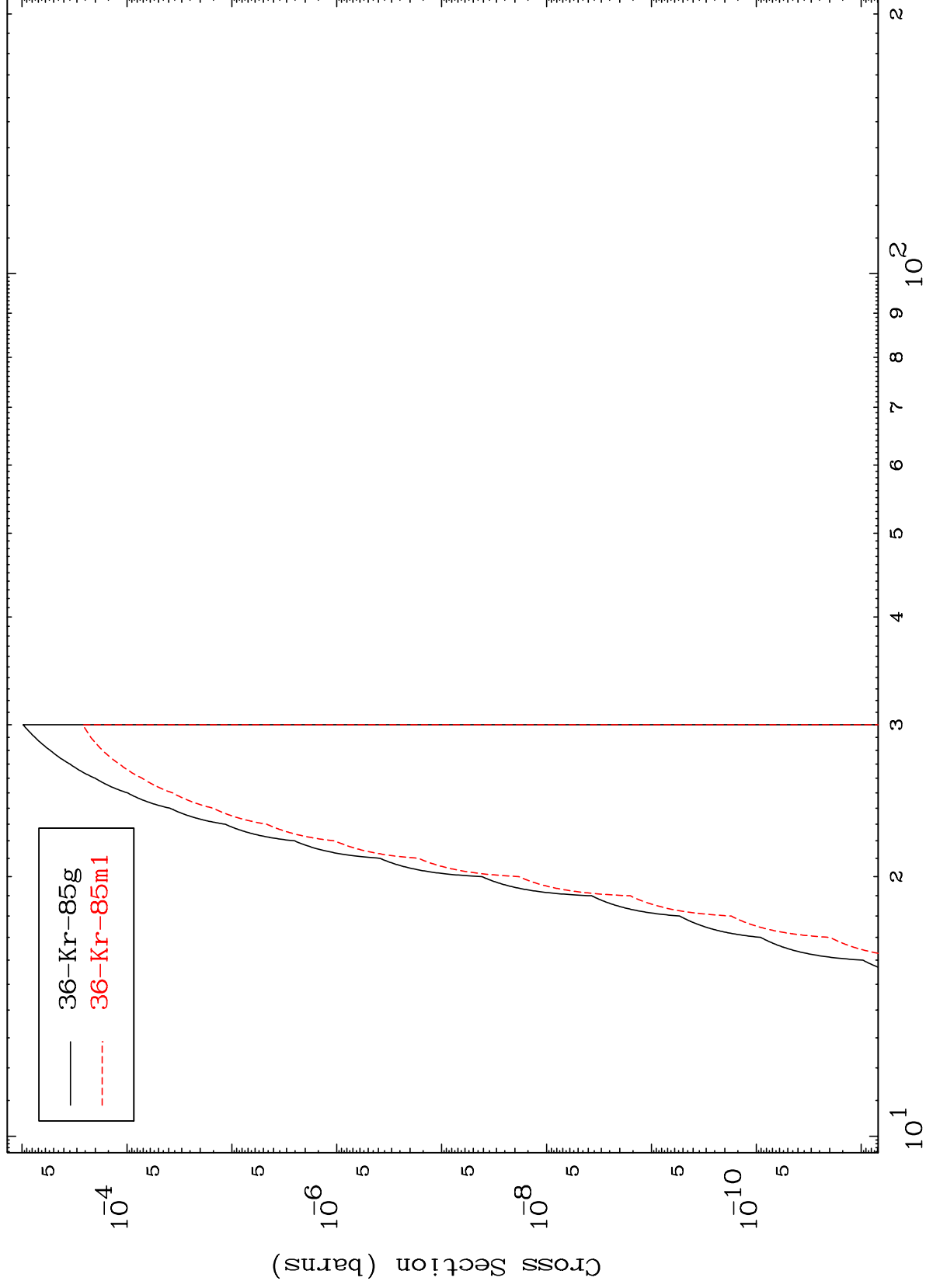
38-Sr-87m

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(n,He-3)

38-Sr-87m

Radionuclide Production Cross Section



Incident Energy (MeV)

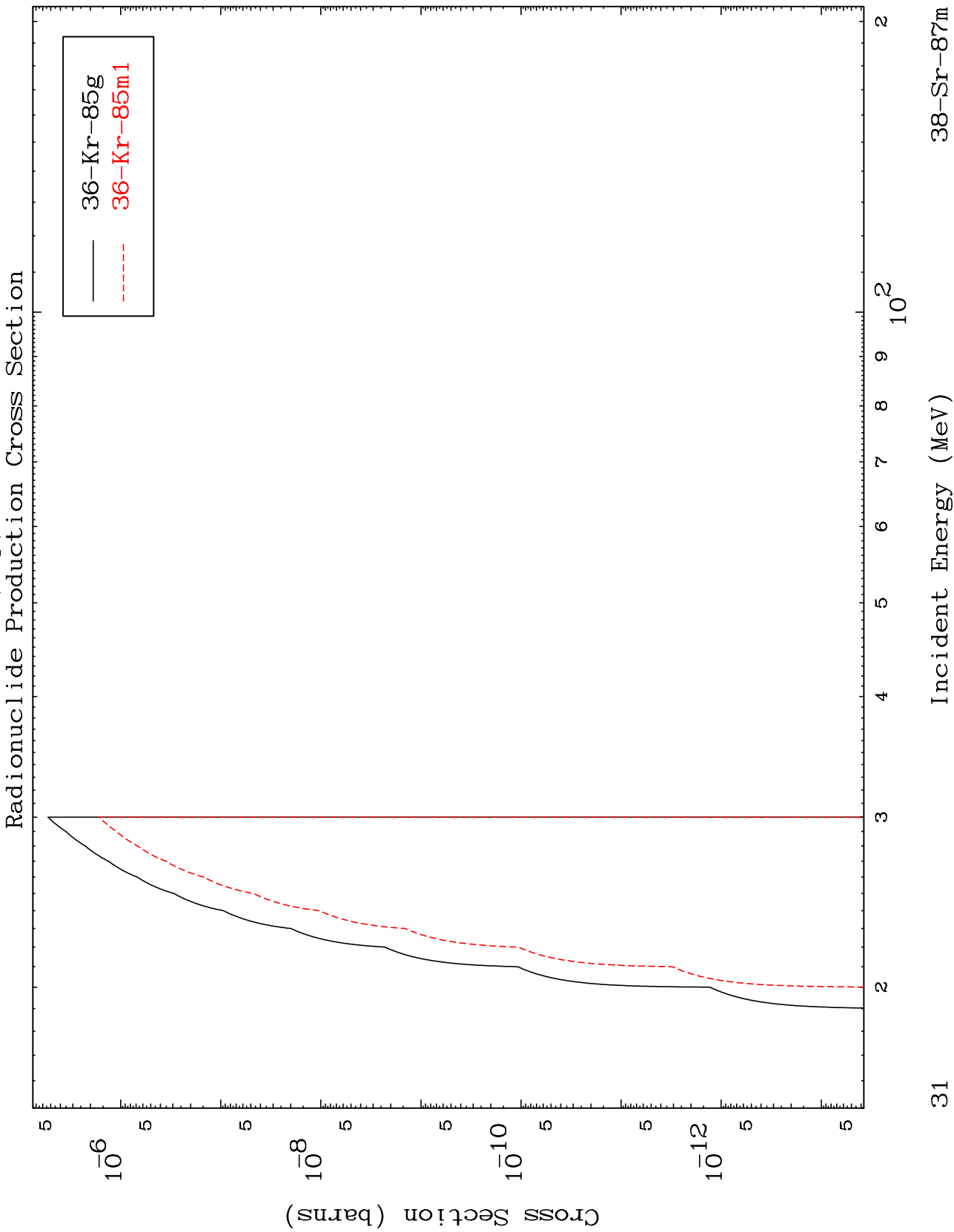
38-Sr-87m

30

MAT 3835

(n,p) d

38-Sr-87m



31

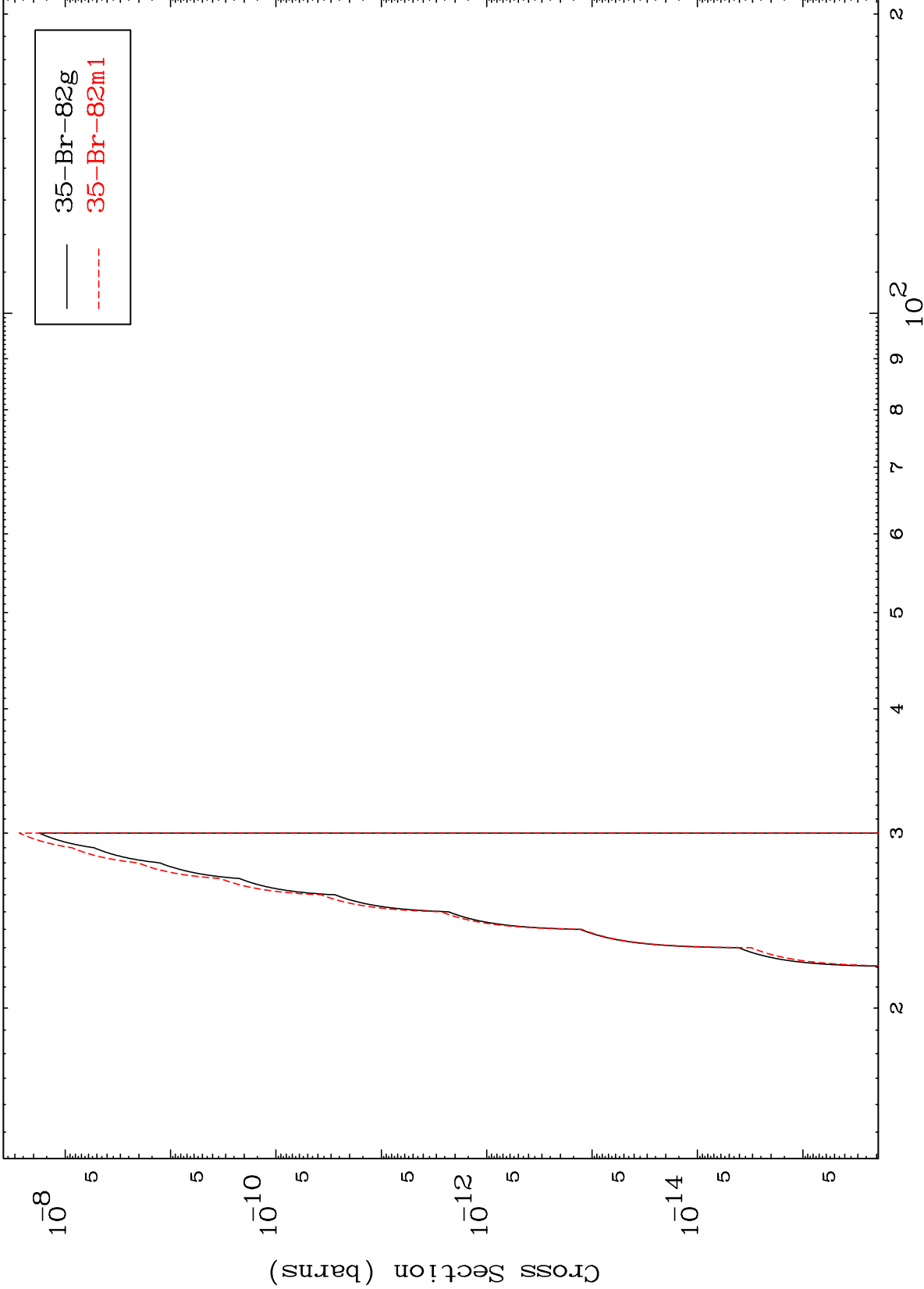
38-Sr-87m

MAT 3835

(n,d) α

38-Sr-87m

Radionuclide Production Cross Section



32

Incident Energy (MeV)

38-Sr-87m