

Program EVALPLOT
(Version 2021-1)

by

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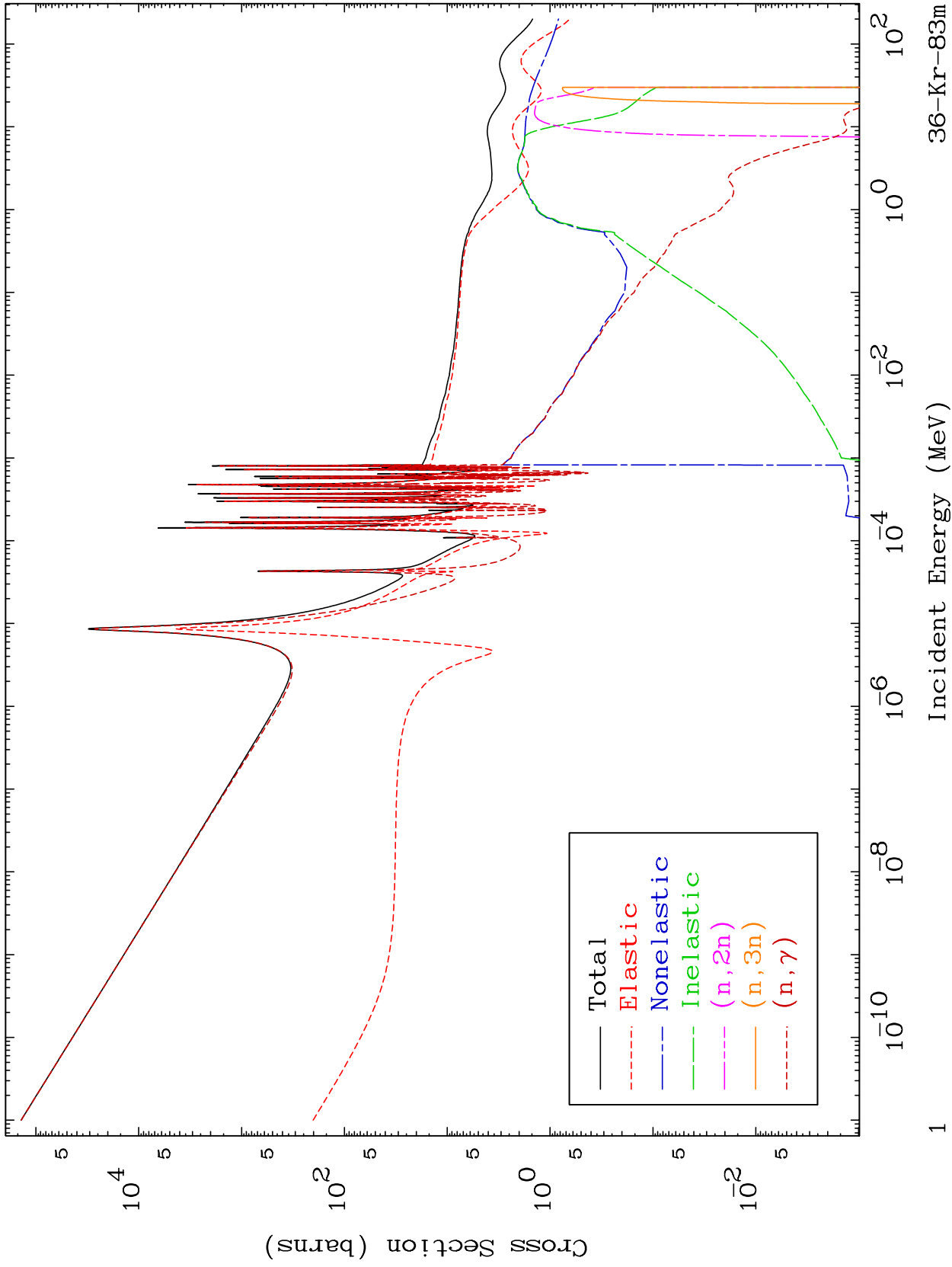
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3641

Neutron Major
293 Kelvin Cross Sections

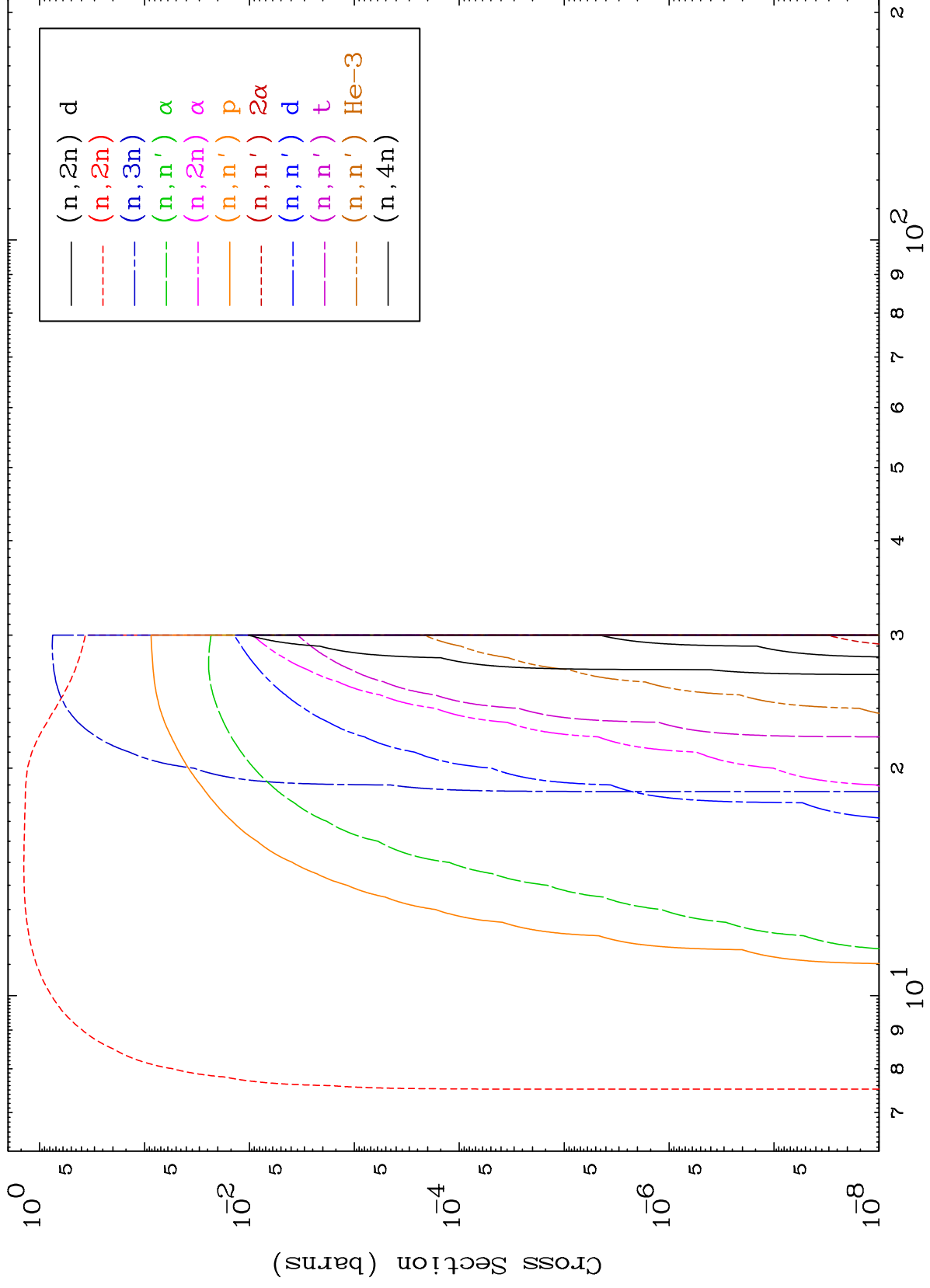
36-Kr-83m



MAT 3641

Neutron Absorption
293 Kelvin Cross Sections

³⁶Kr-83m



2

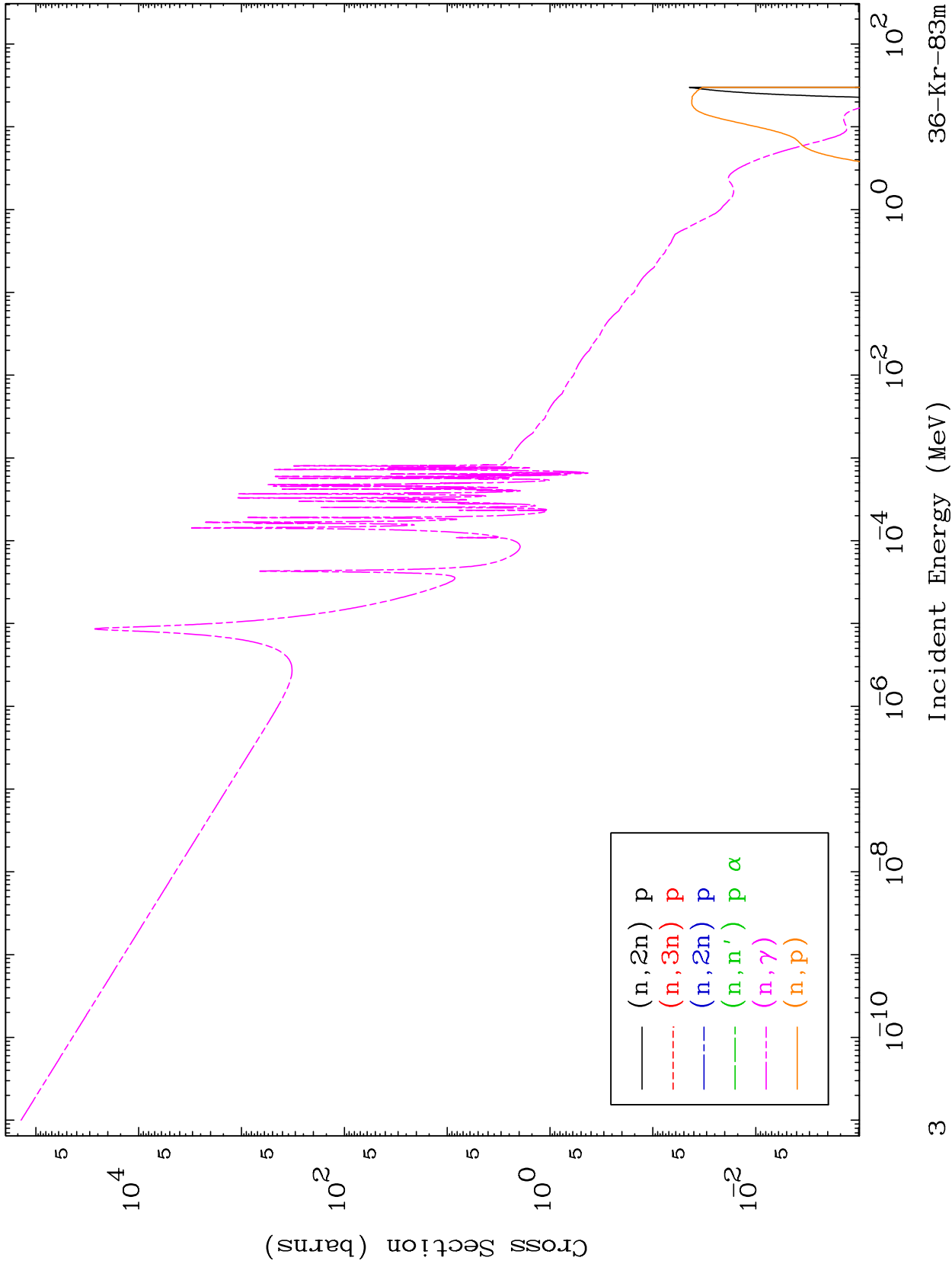
Incident Energy (MeV)

³⁶Kr-83m

MAT 3641

Neutron Absorption
293 Kelvin Cross Sections

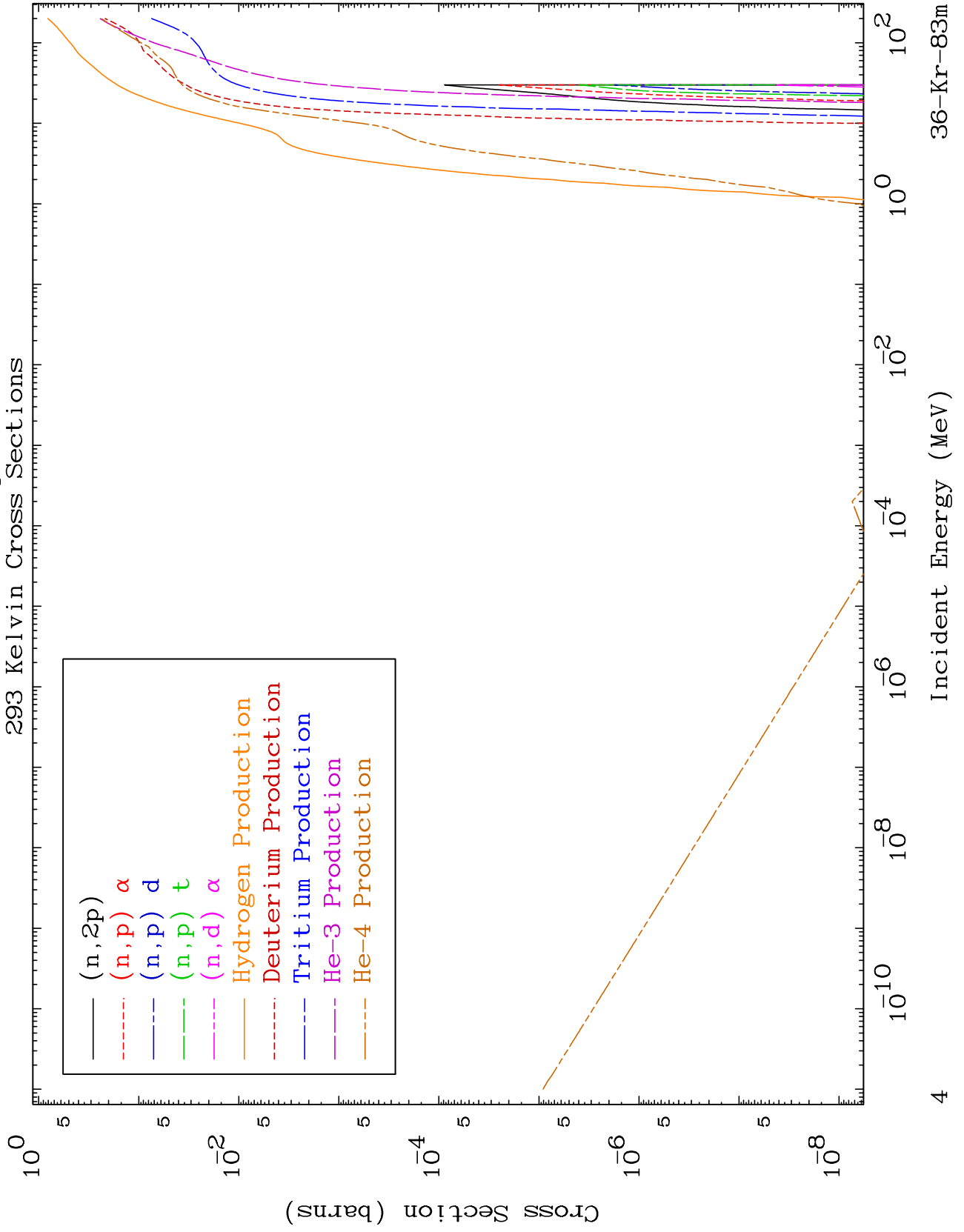
36-Kr-83m



MAT 3641

Neutron Absorption
293 Kelvin Cross Sections

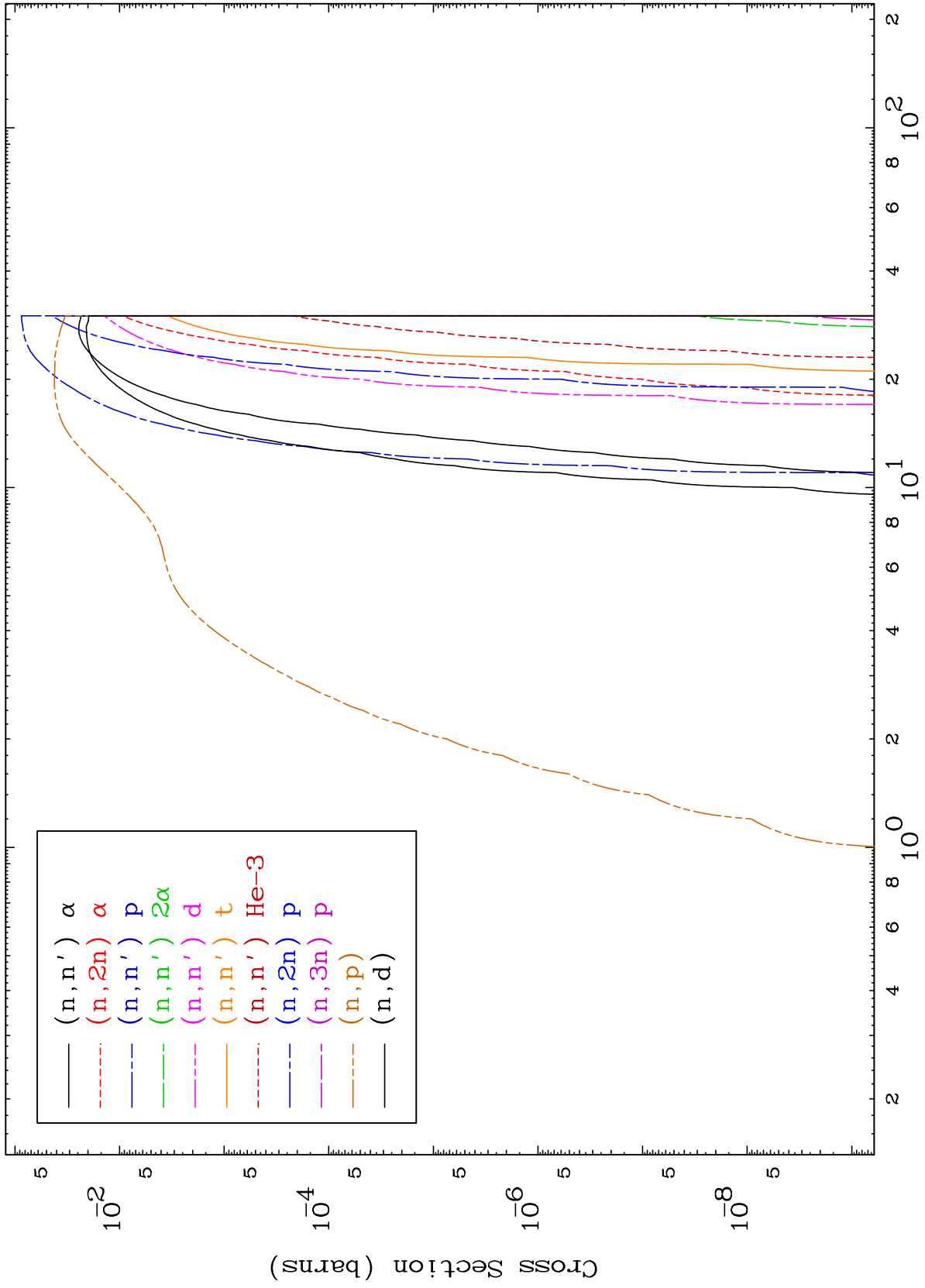
36-Kr-83m



MAT 3641

Charged Particle
293 Kelvin Cross Sections

36-Kr-83m



5

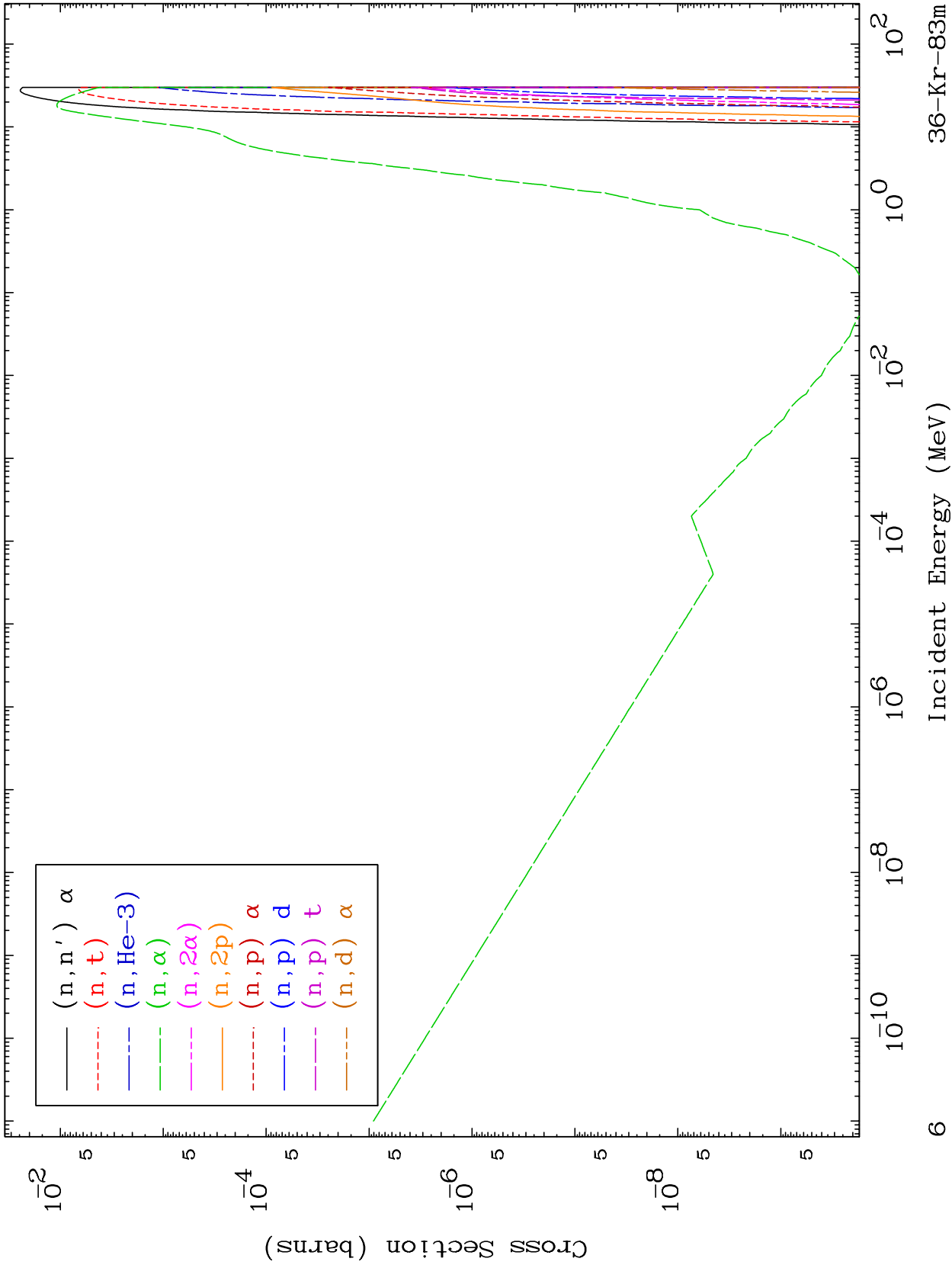
Incident Energy (MeV)

36-Kr-83m

MAT 3641

Charged Particle
293 Kelvin Cross Sections

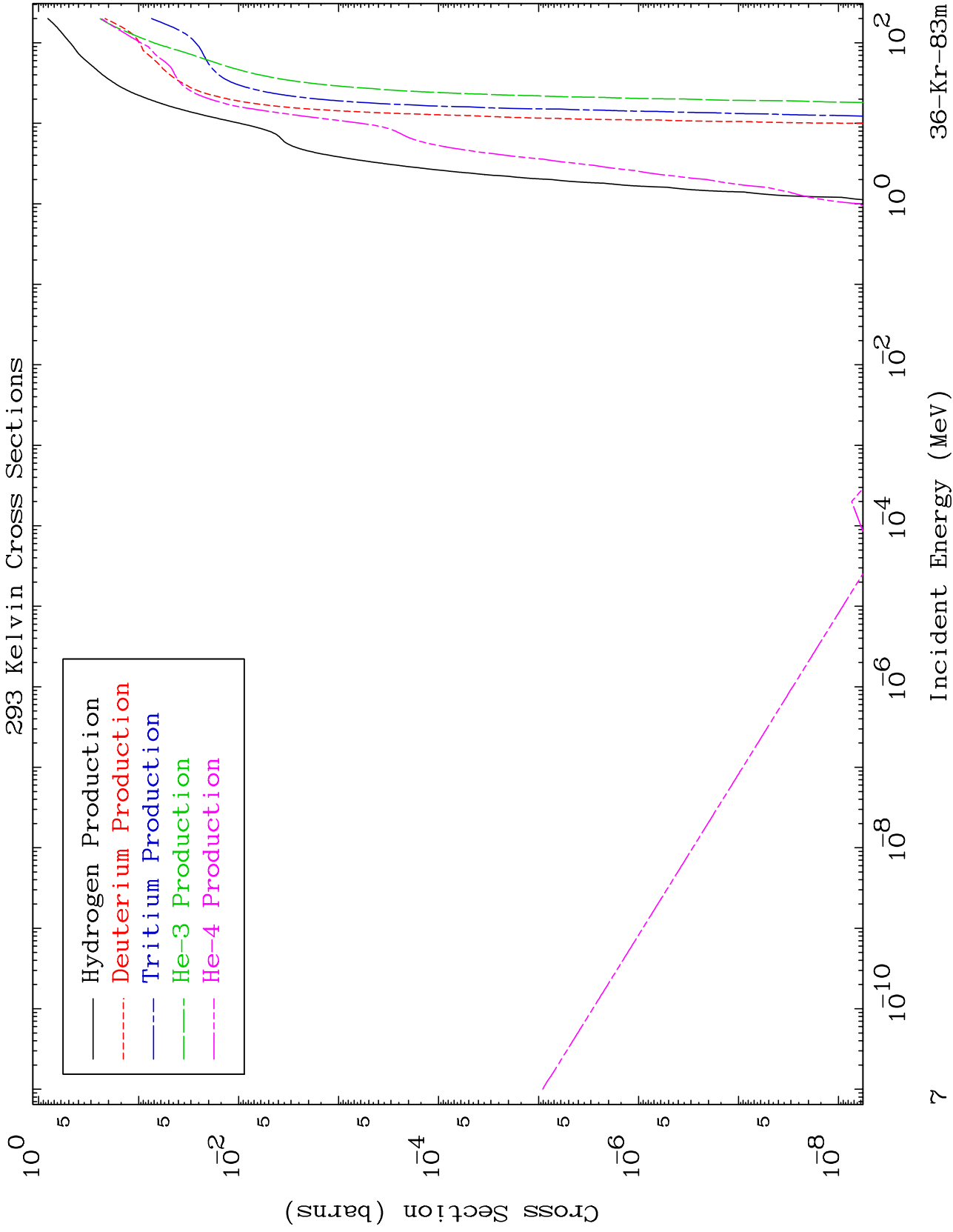
36-Kr-83m



MAT 3641

Particle Production
293 Kelvin Cross Sections

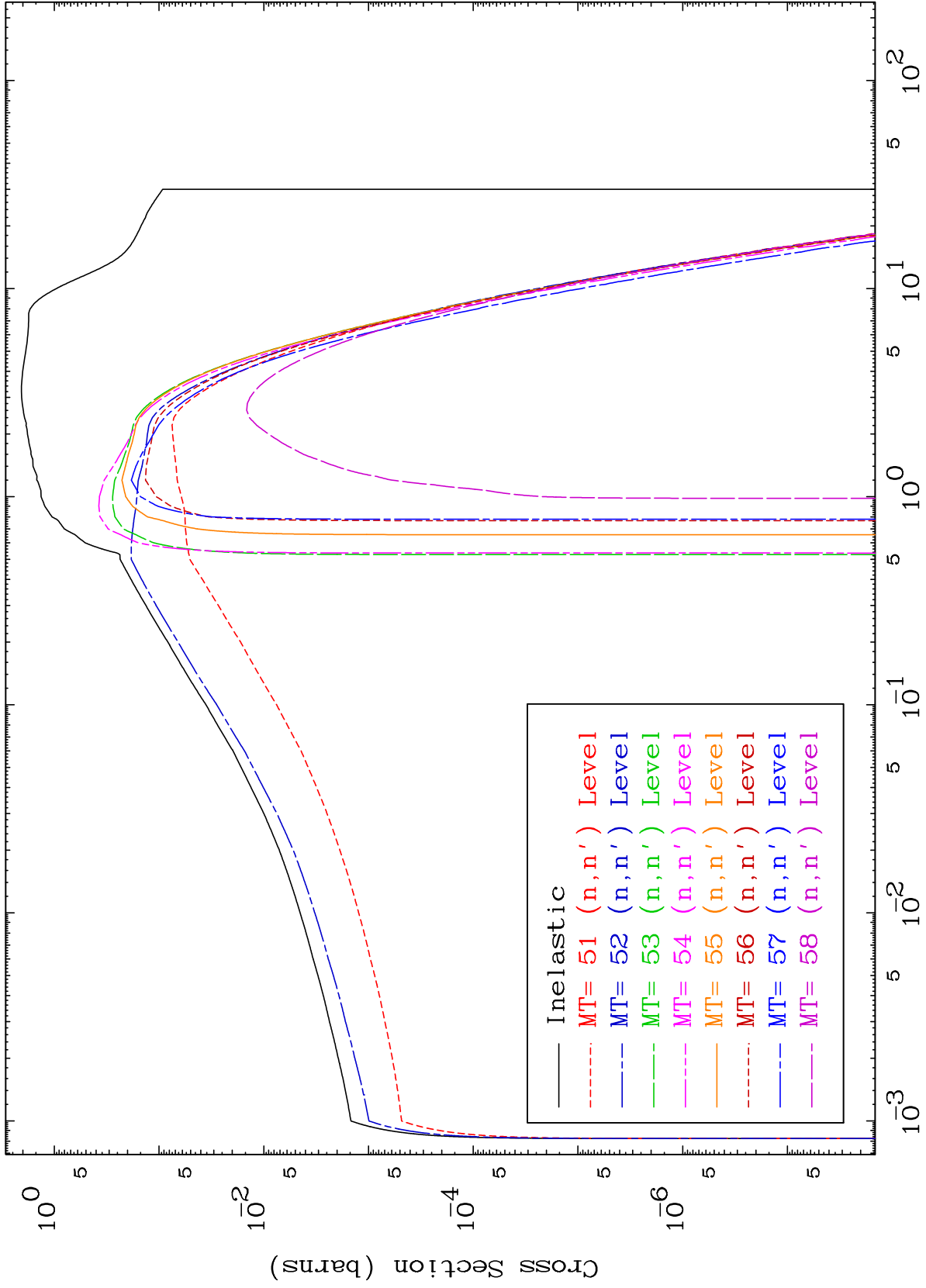
36-Kr-83m



MAT 3641

(n,n') Levels
293 Kelvin Cross Sections

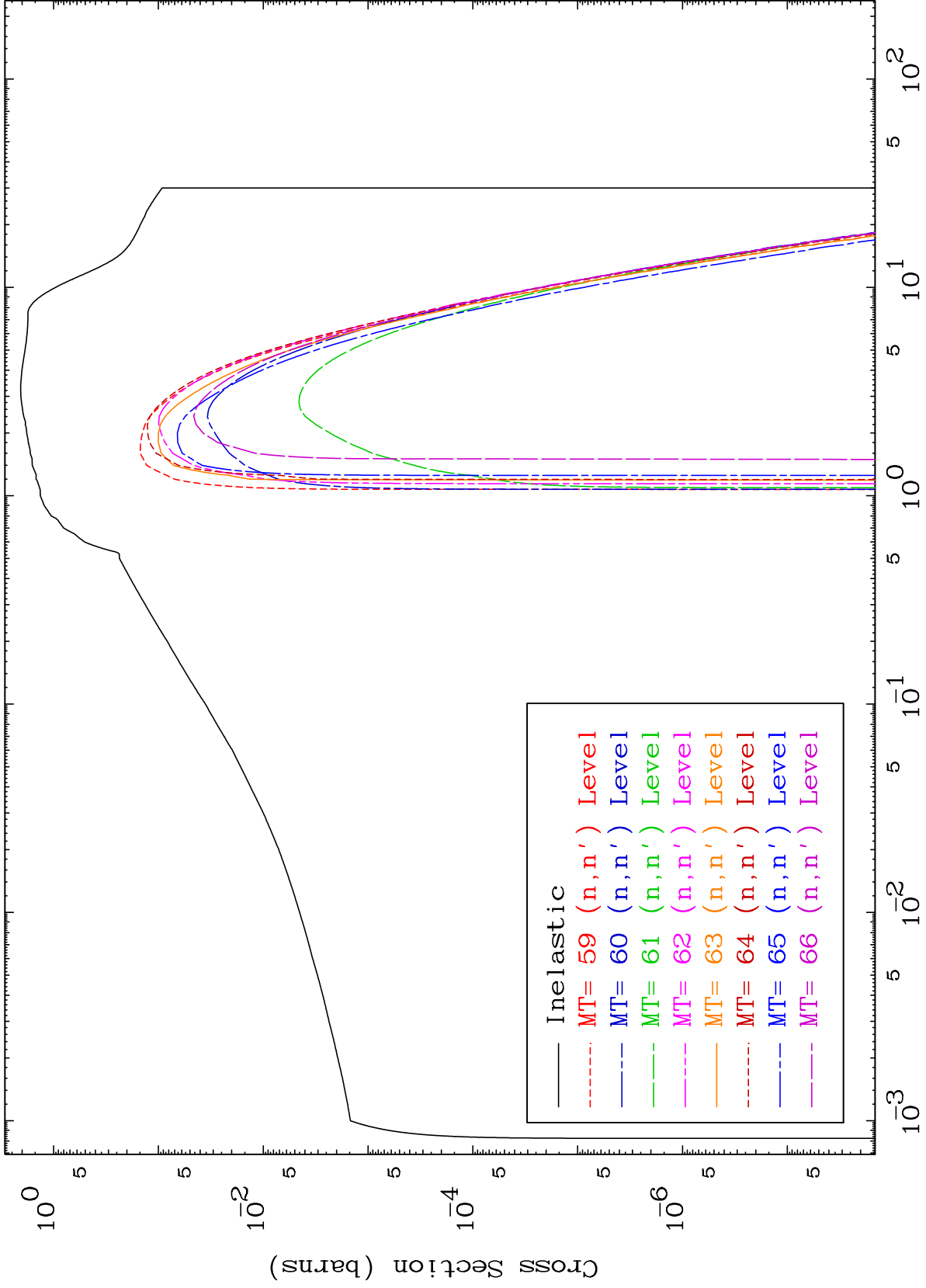
36-Kr-83m



MAT 3641

(n,n') Levels
293 Kelvin Cross Sections

36-Kr-83m

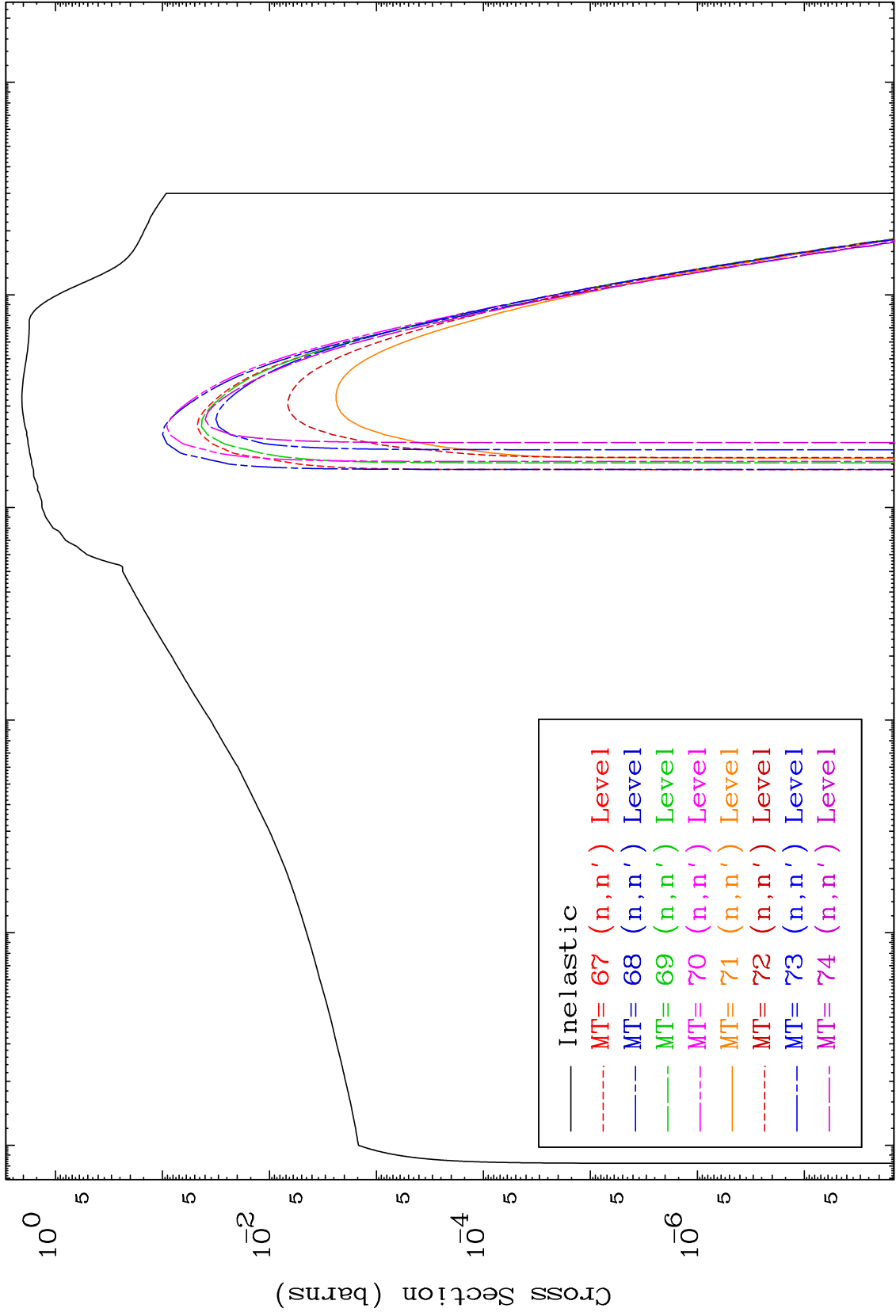


MAT 3641

(n,n') Levels

36-Kr-83m

293 Kelvin Cross Sections



5 10²

5 10¹

5 10⁰

5 10⁻¹

5 10⁻²

5 10⁻³

Incident Energy (MeV)

36-Kr-83m

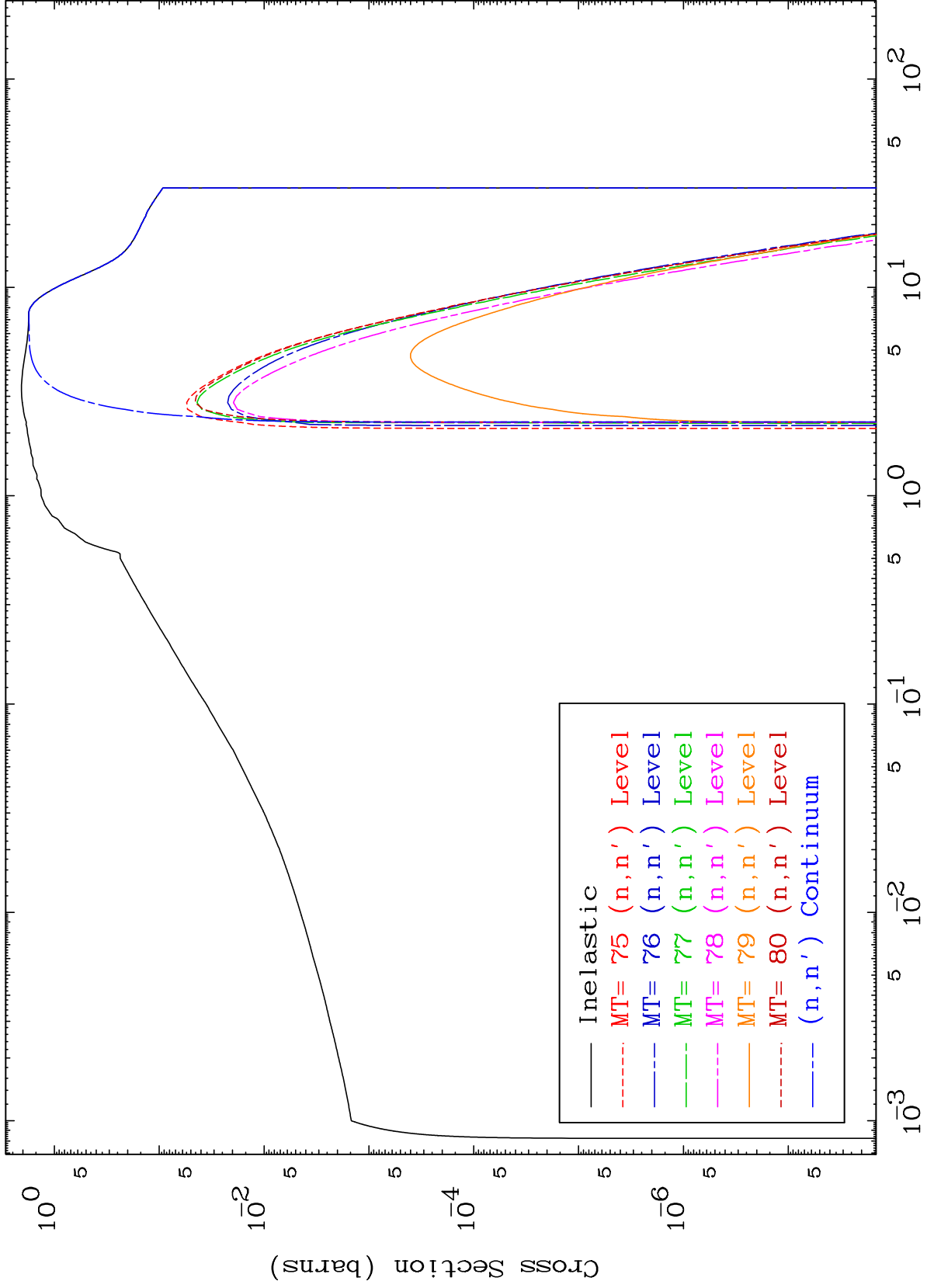
10

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(n,n') Levels

36-Kr-83m

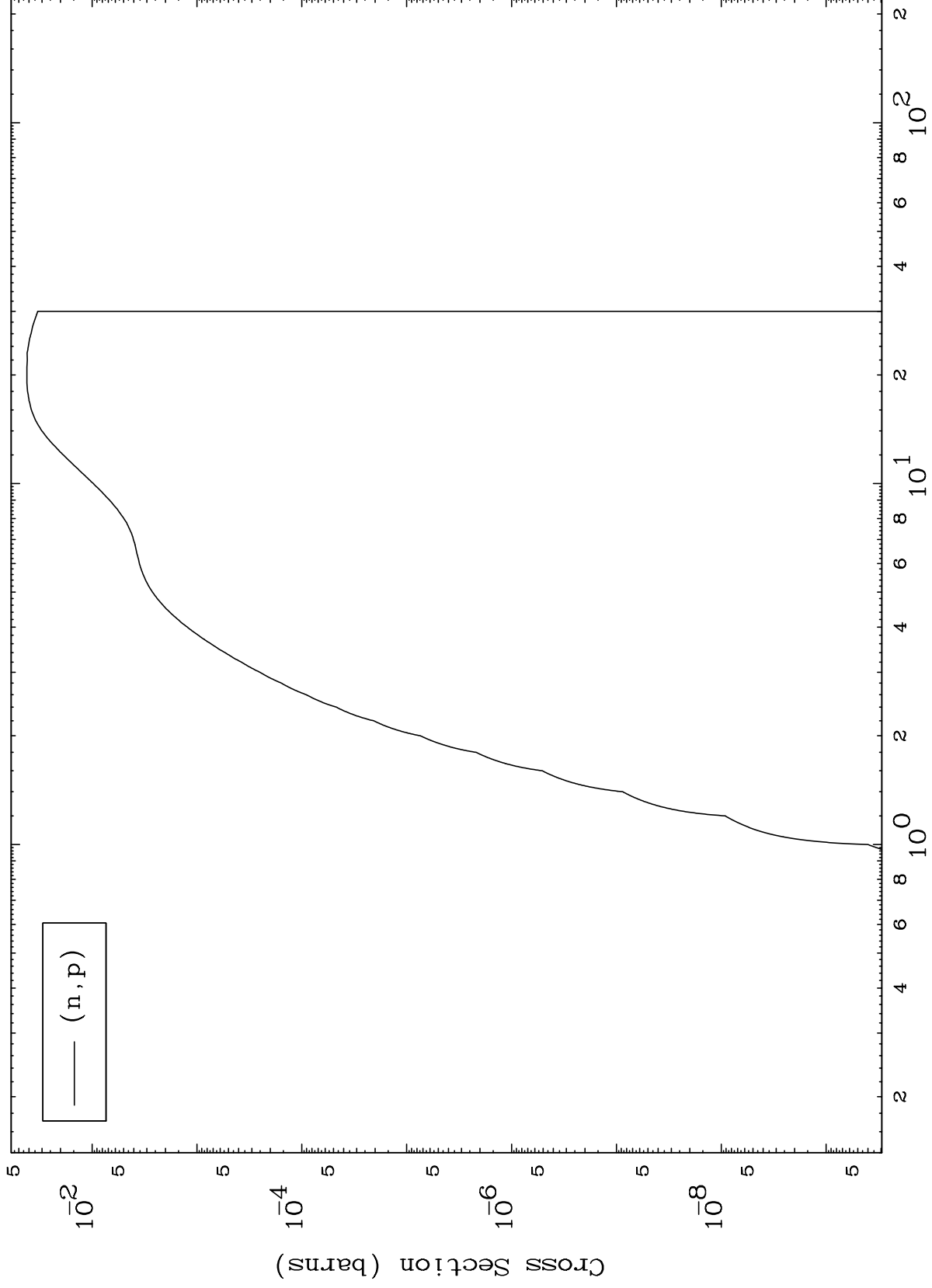
293 Kelvin Cross Sections



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(n,p) Levels
293 Kelvin Cross Sections

36-Kr-83m



12

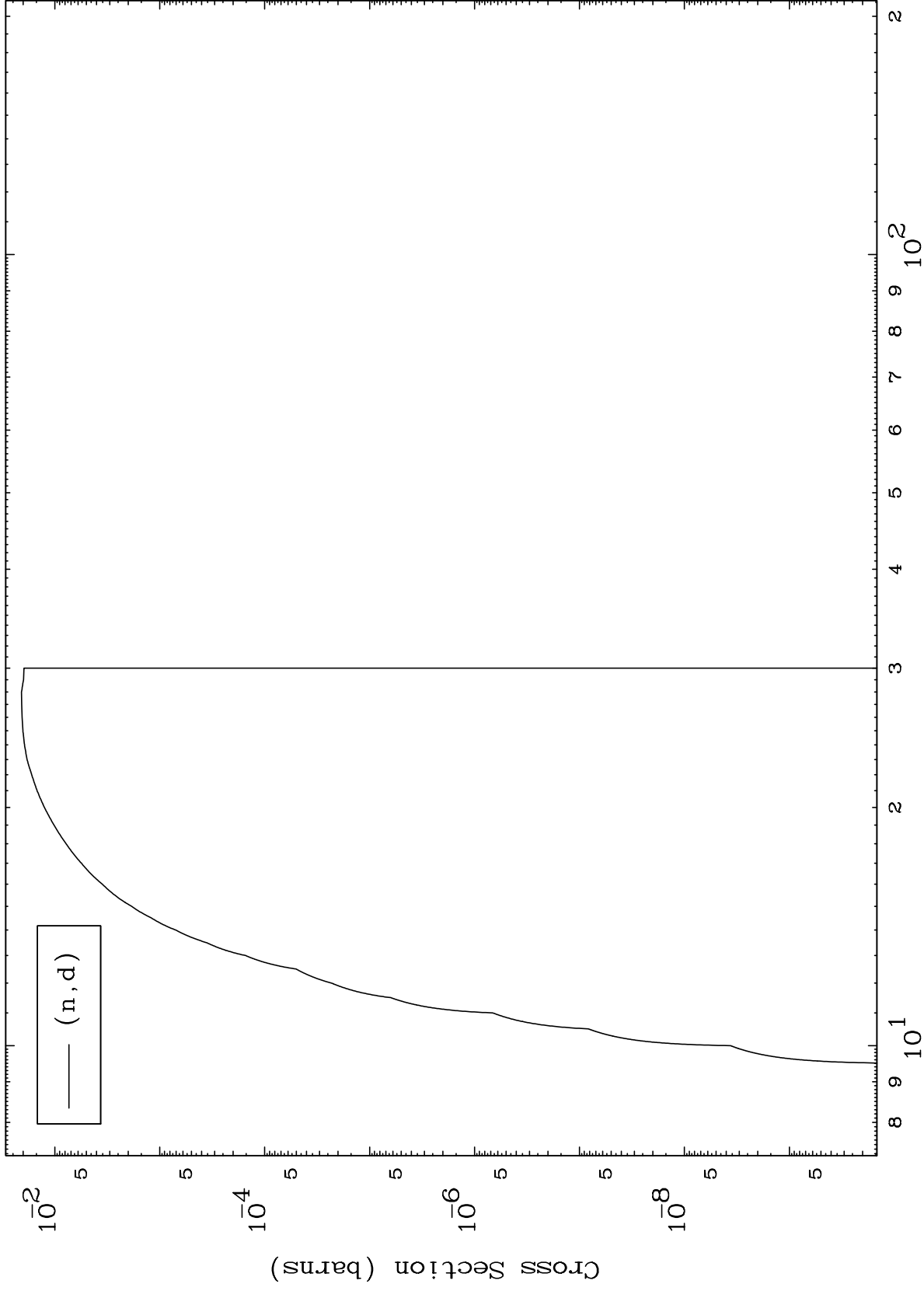
Incident Energy (MeV)

36-Kr-83m

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36-Kr-83m

(n,d) Levels
293 Kelvin Cross Sections



13

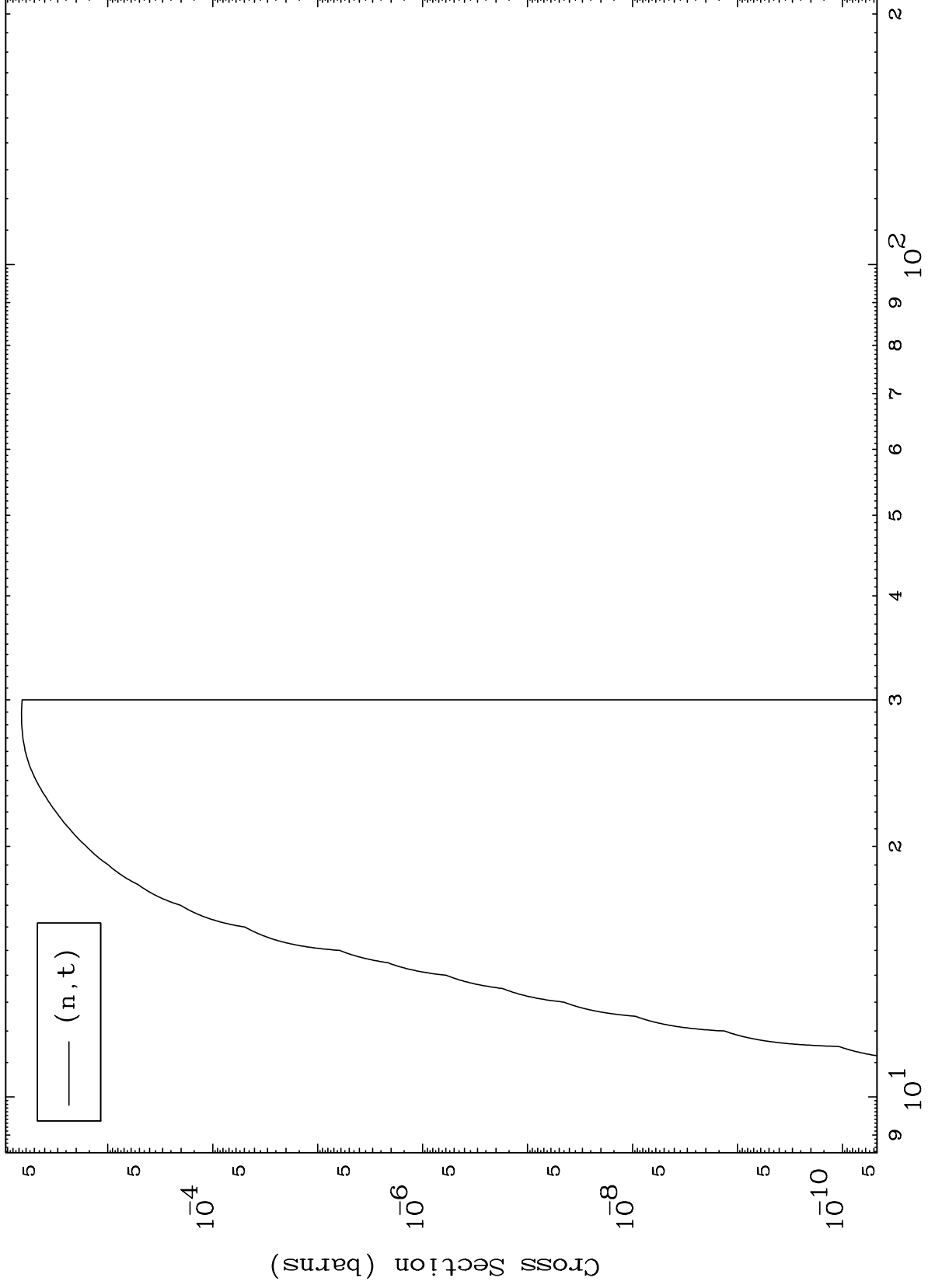
Incident Energy (MeV)

36-Kr-83m

MAT 3641

(n,t) Levels
293 Kelvin Cross Sections

36-Kr-83m



14

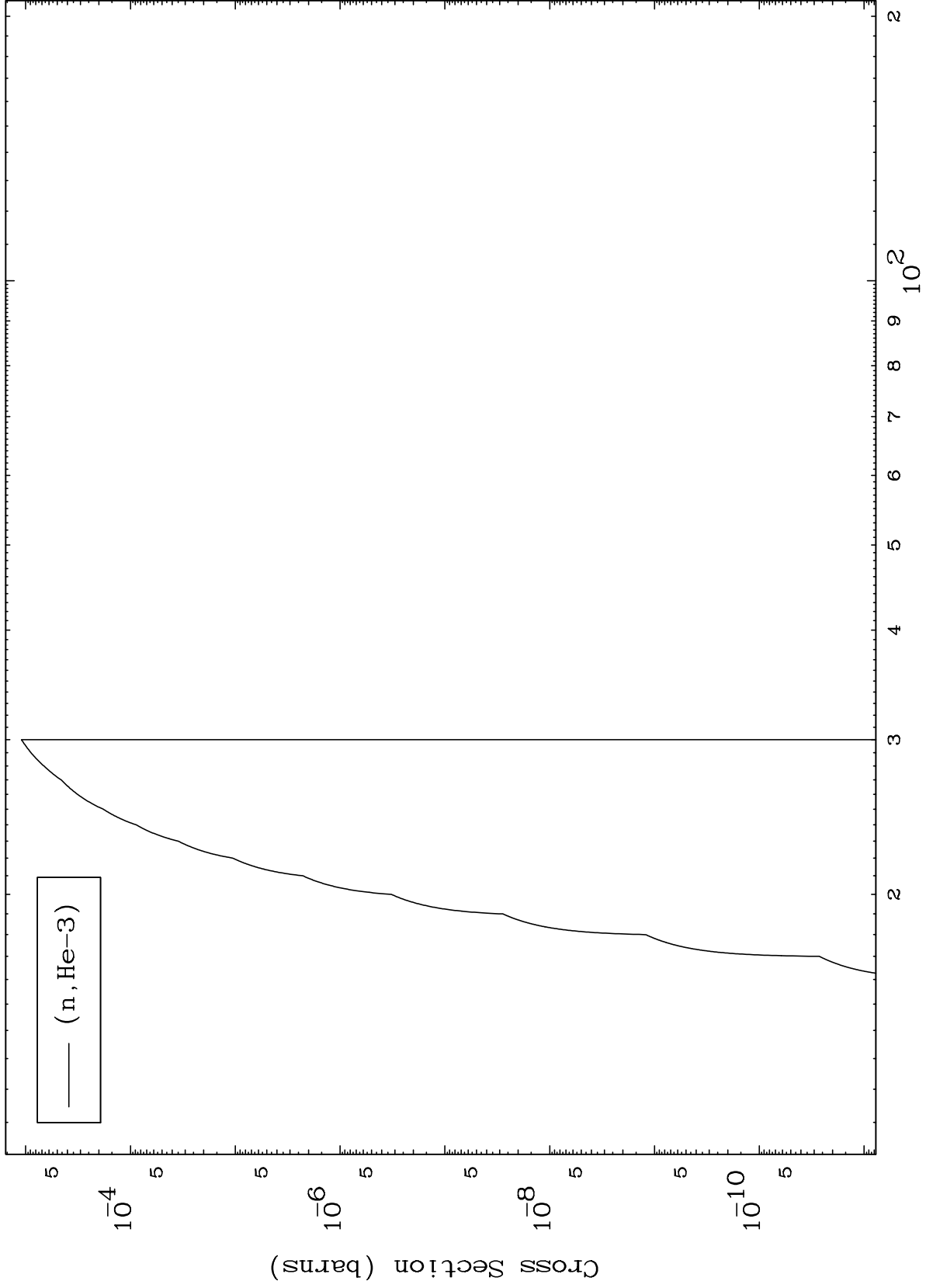
Incident Energy (MeV)

36-Kr-83m

MAT 3641

(n,He3) Levels
293 Kelvin Cross Sections

36-Kr-83m



15

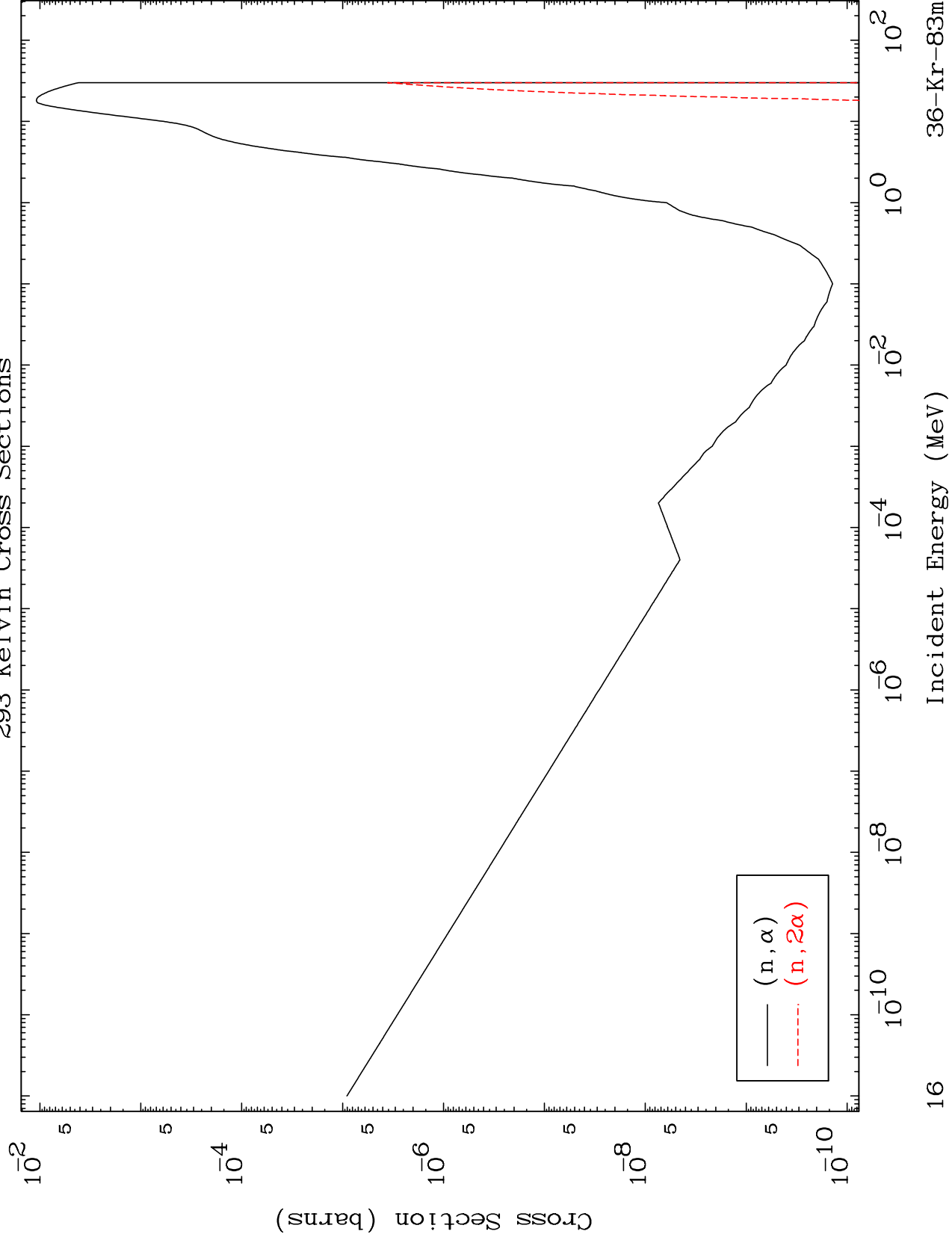
Incident Energy (MeV)

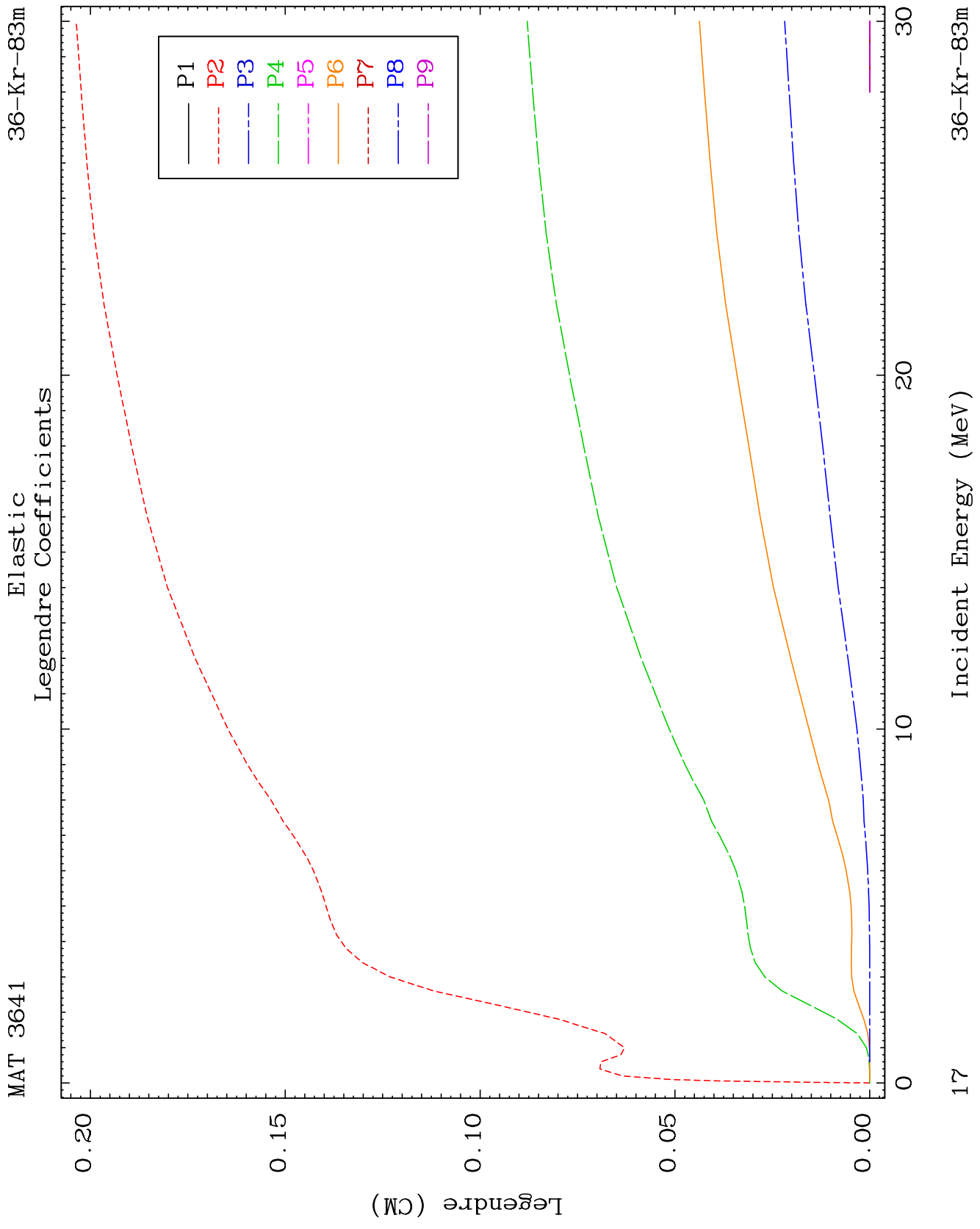
36-Kr-83m

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(n, α) Levels
293 Kelvin Cross Sections

36-Kr-83m

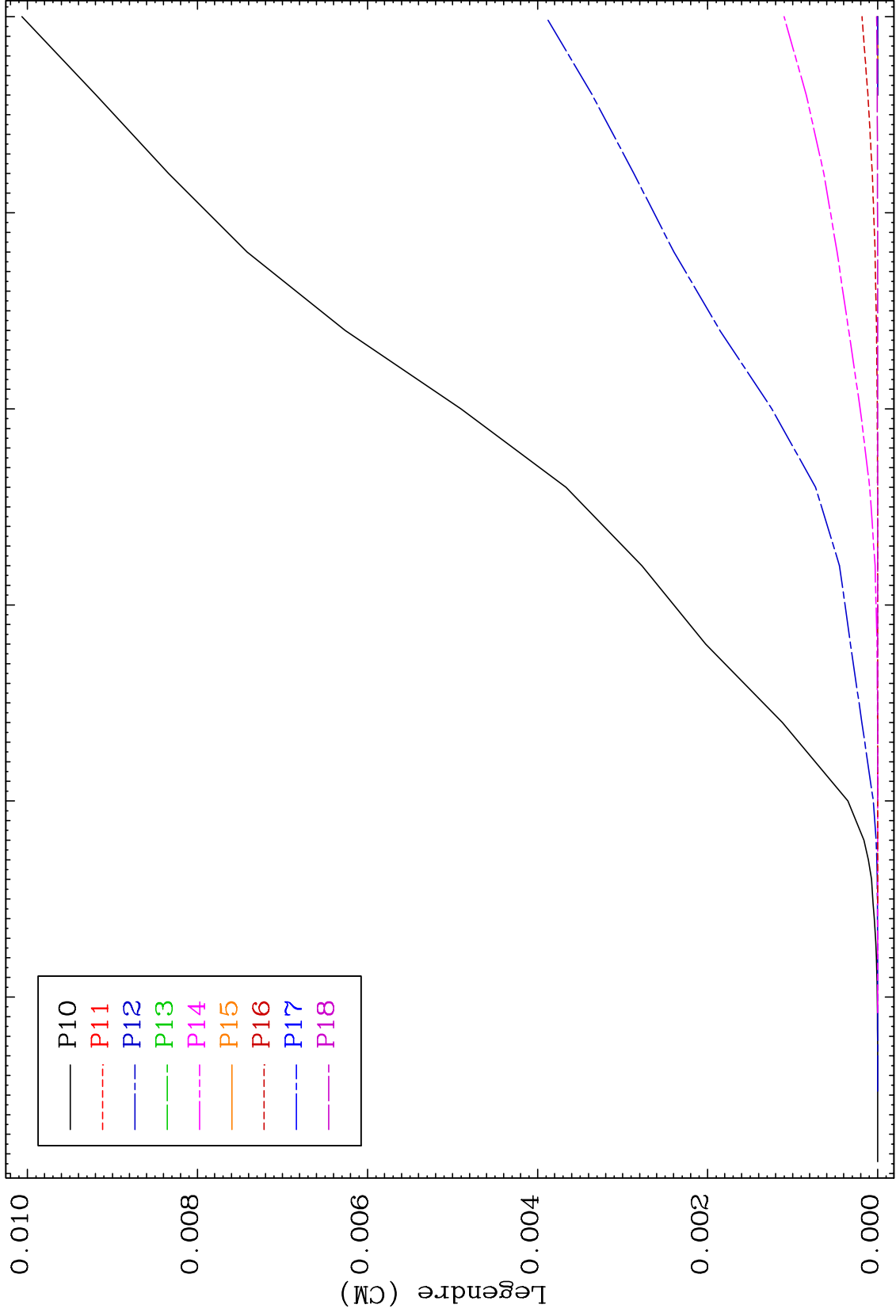




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Elastic Legendre Coefficients

36-Kr-83m



18

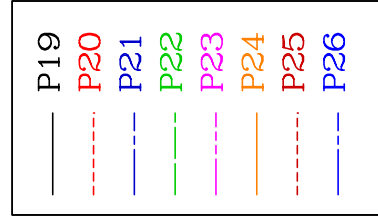
36-Kr-83m

Incident Energy (MeV)

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Elastic
Legendre Coefficients

36-Kr-83m



$\times 10^{-7}$

Legendre (CM)

6

4

2

0

15

20

25

30

19

Incident Energy (MeV)

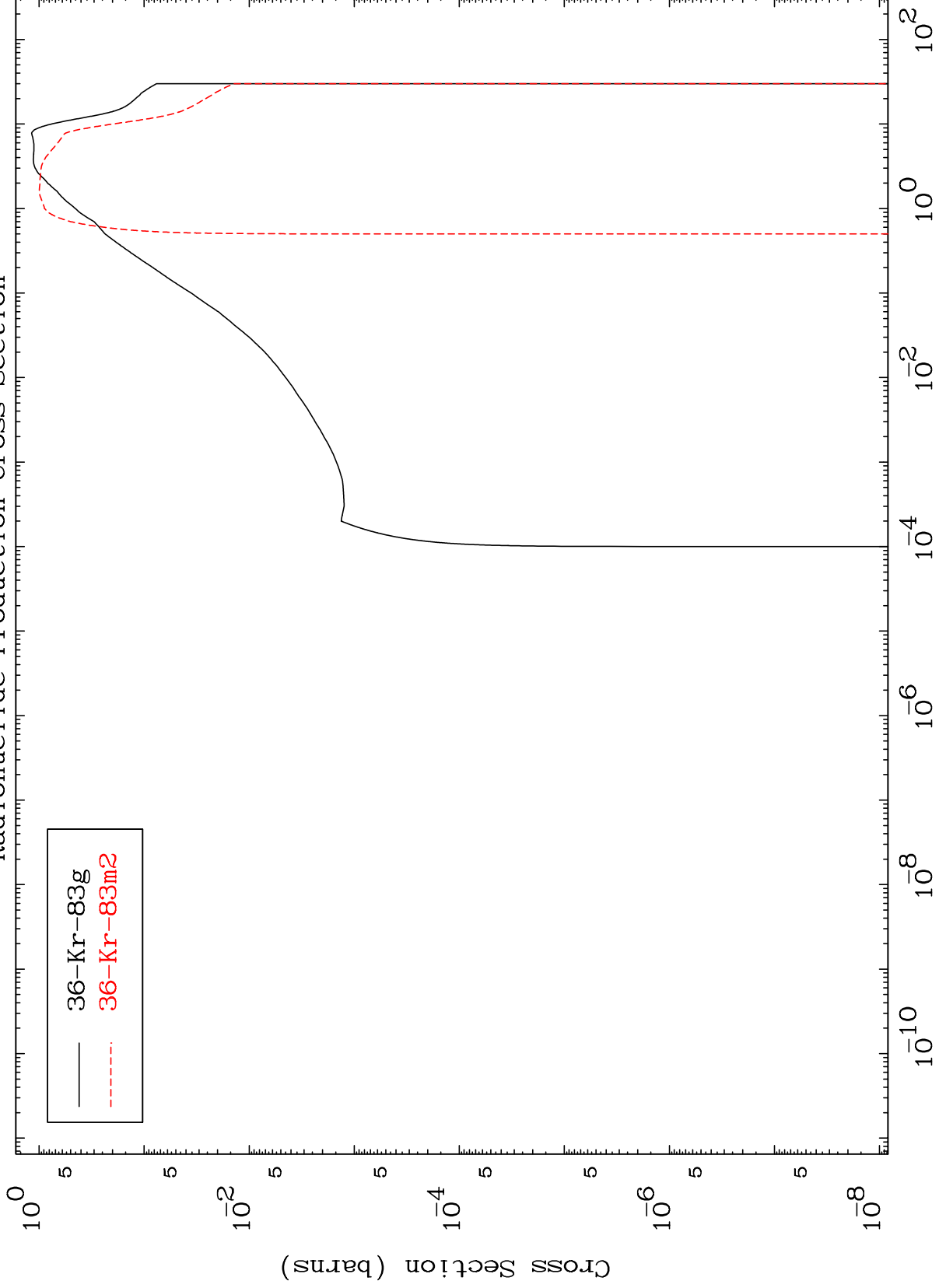
36-Kr-83m



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Inelastic
Radionuclide Production Cross Section

³⁶Kr-⁸³m



— 36-Kr-83g
- - - 36-Kr-83m2

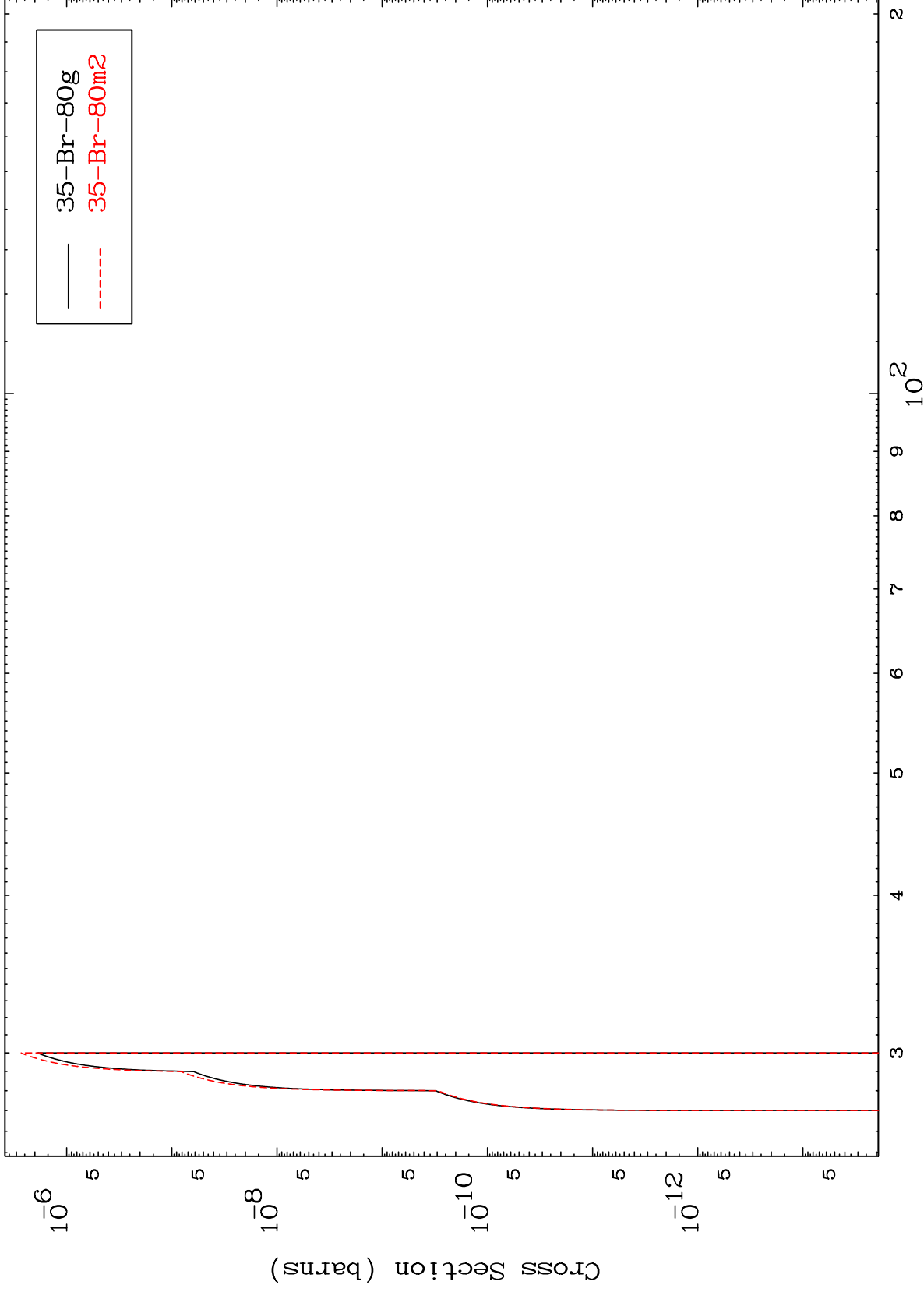
³⁶Kr-⁸³m

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(n,2n) d

36-Kr-83m

Radionuclide Production Cross Section



21

Incident Energy (MeV)

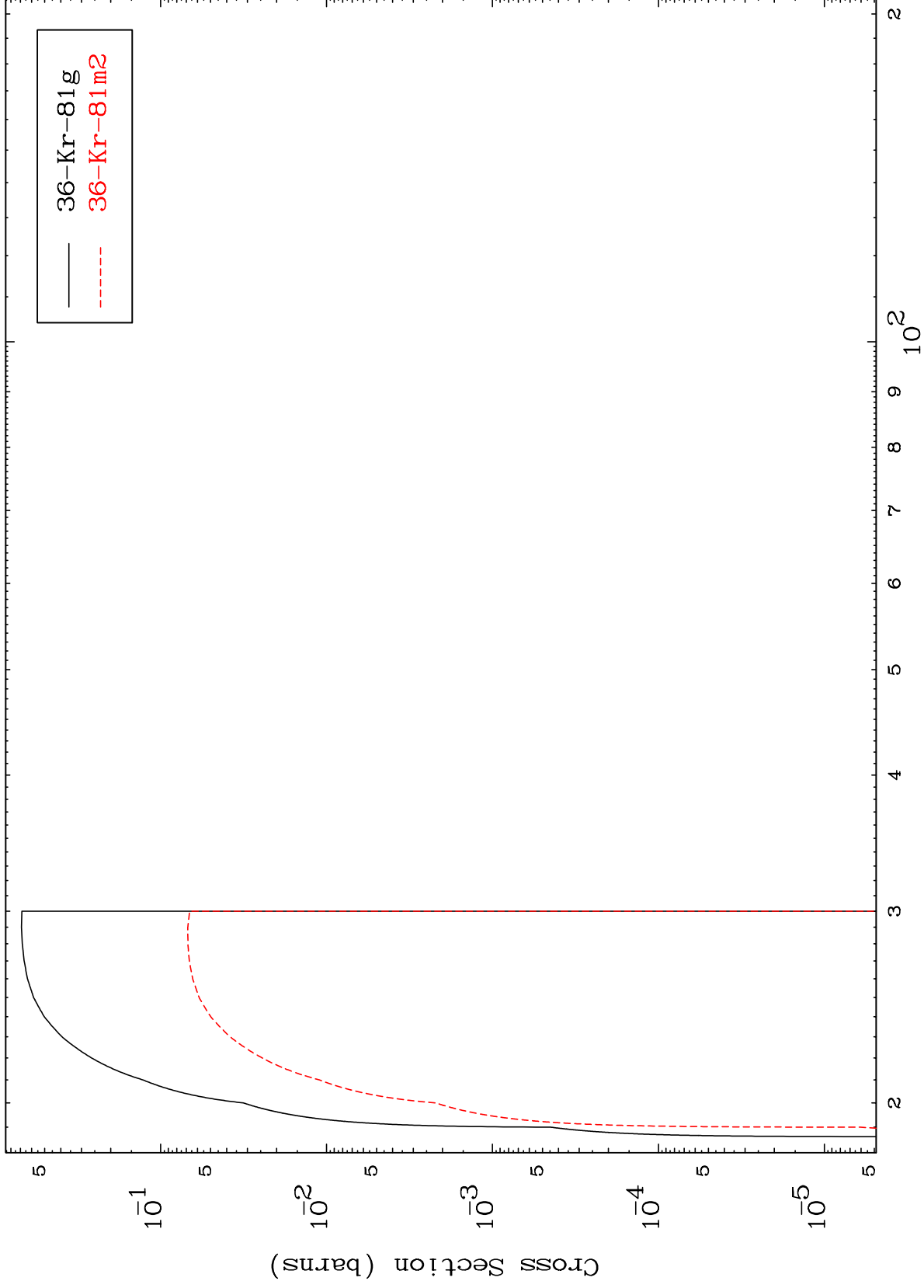
36-Kr-83m

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(n,3n)

36-Kr-83m

Radionuclide Production Cross Section



22

Incident Energy (MeV)

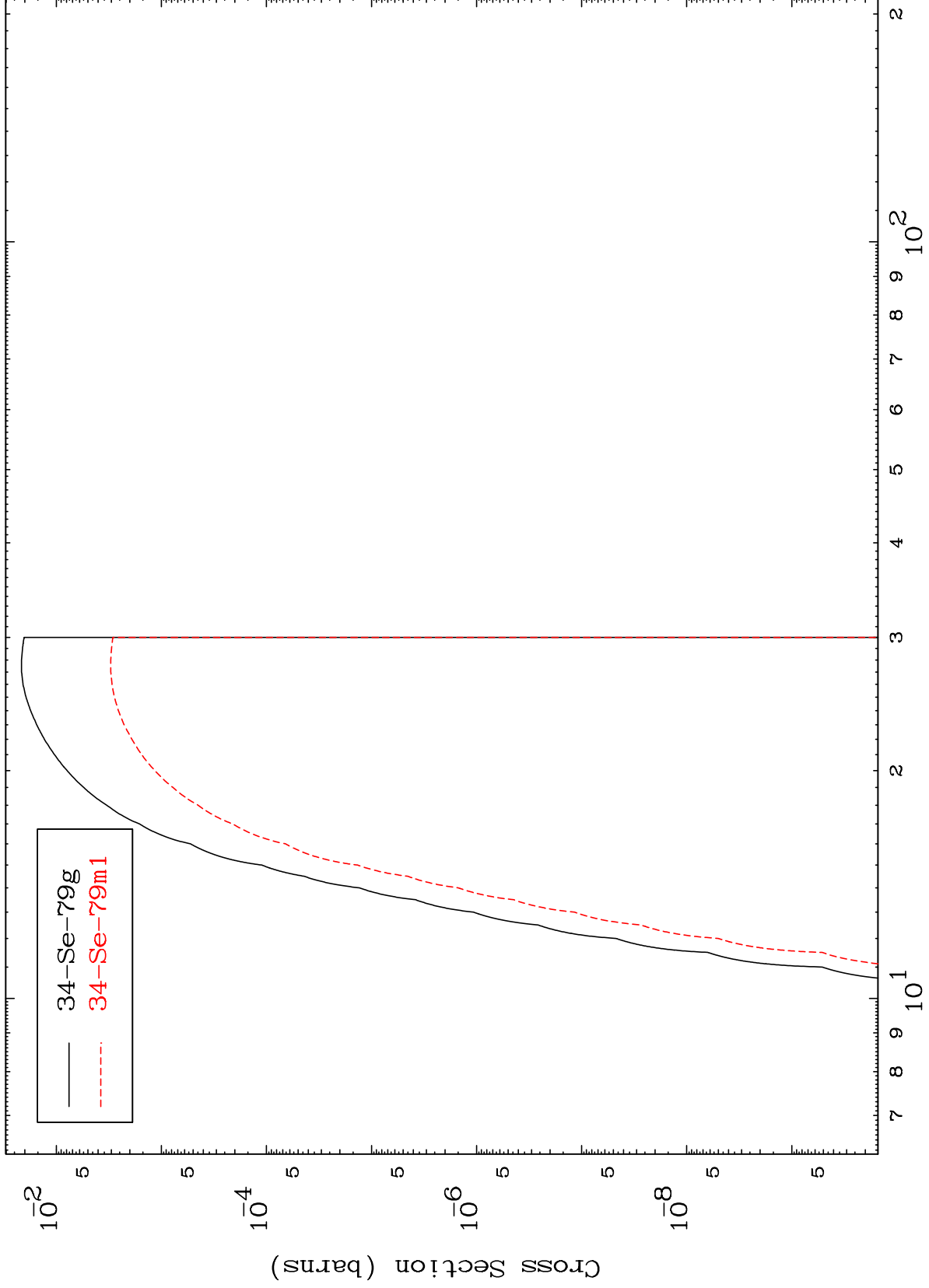
36-Kr-83m

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$(n, n') \alpha$

$^{36}\text{Kr}-83\text{m}$

Radionuclide Production Cross Section



23

Incident Energy (MeV)

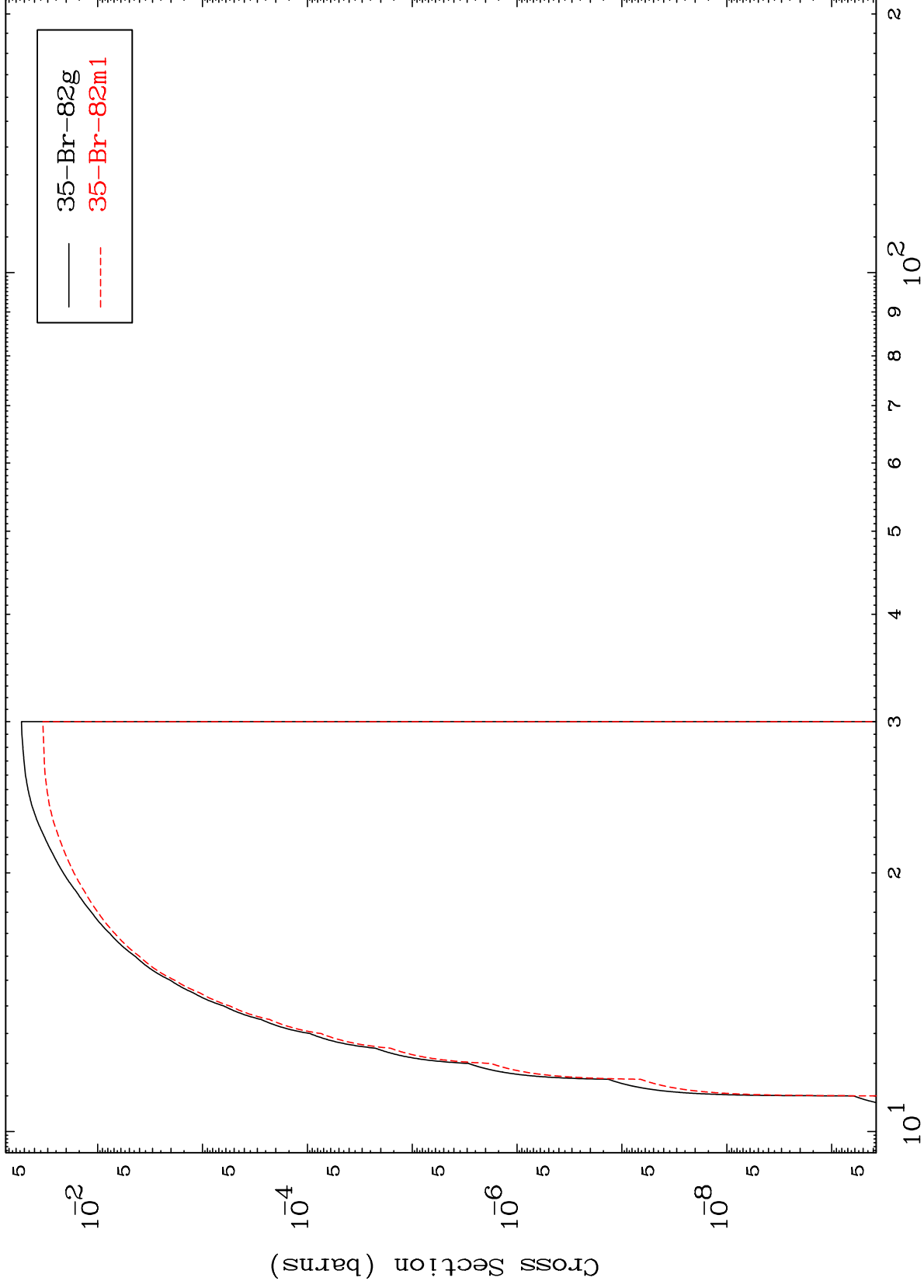
$^{36}\text{Kr}-83\text{m}$

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(n, n') p

$^{36}\text{Kr-83m}$

Radionuclide Production Cross Section



Incident Energy (MeV)

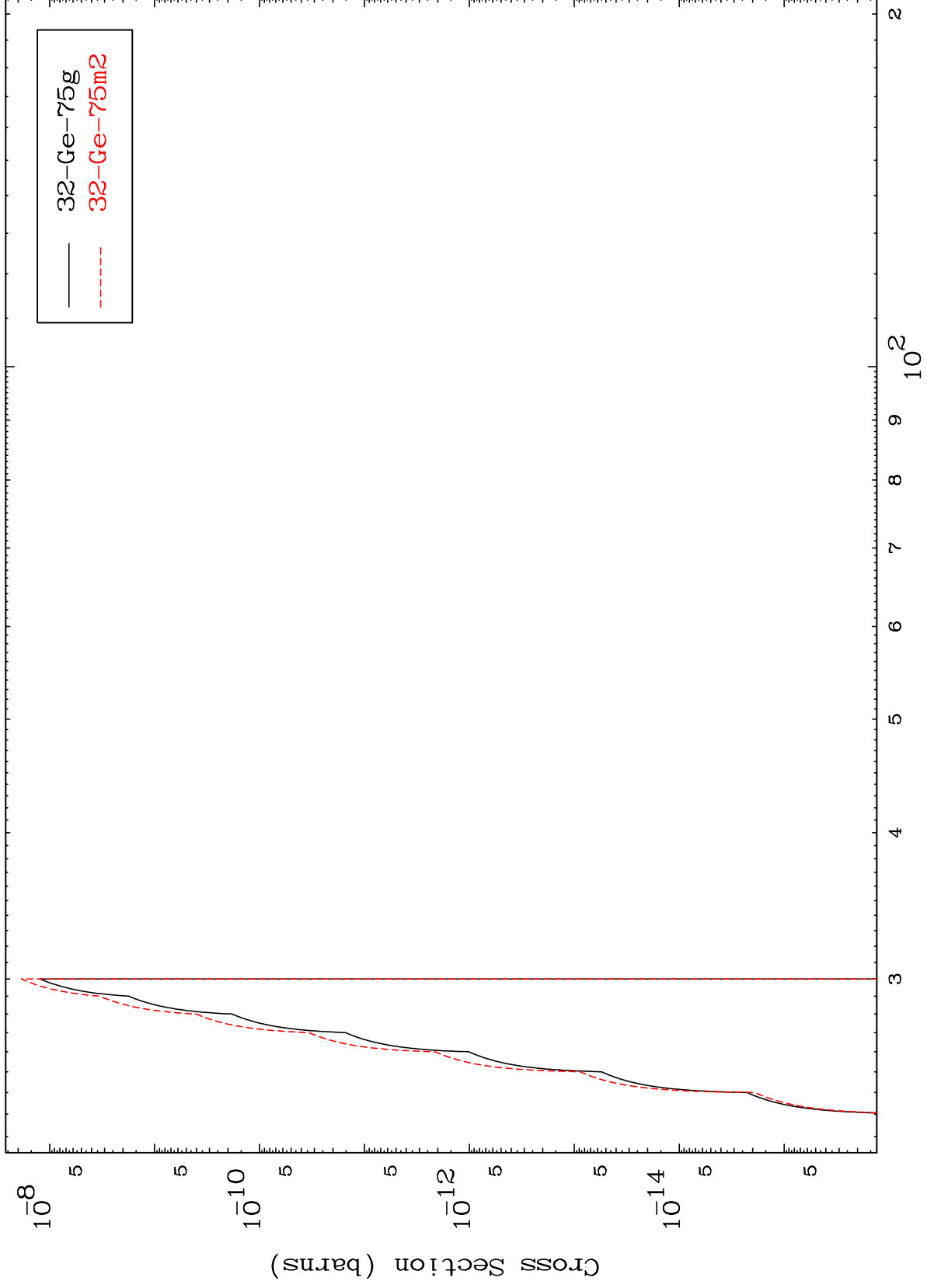
$^{36}\text{Kr-83m}$

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(n,n') 2 α

36-Kr-83m

Radionuclide Production Cross Section



25

Incident Energy (MeV)

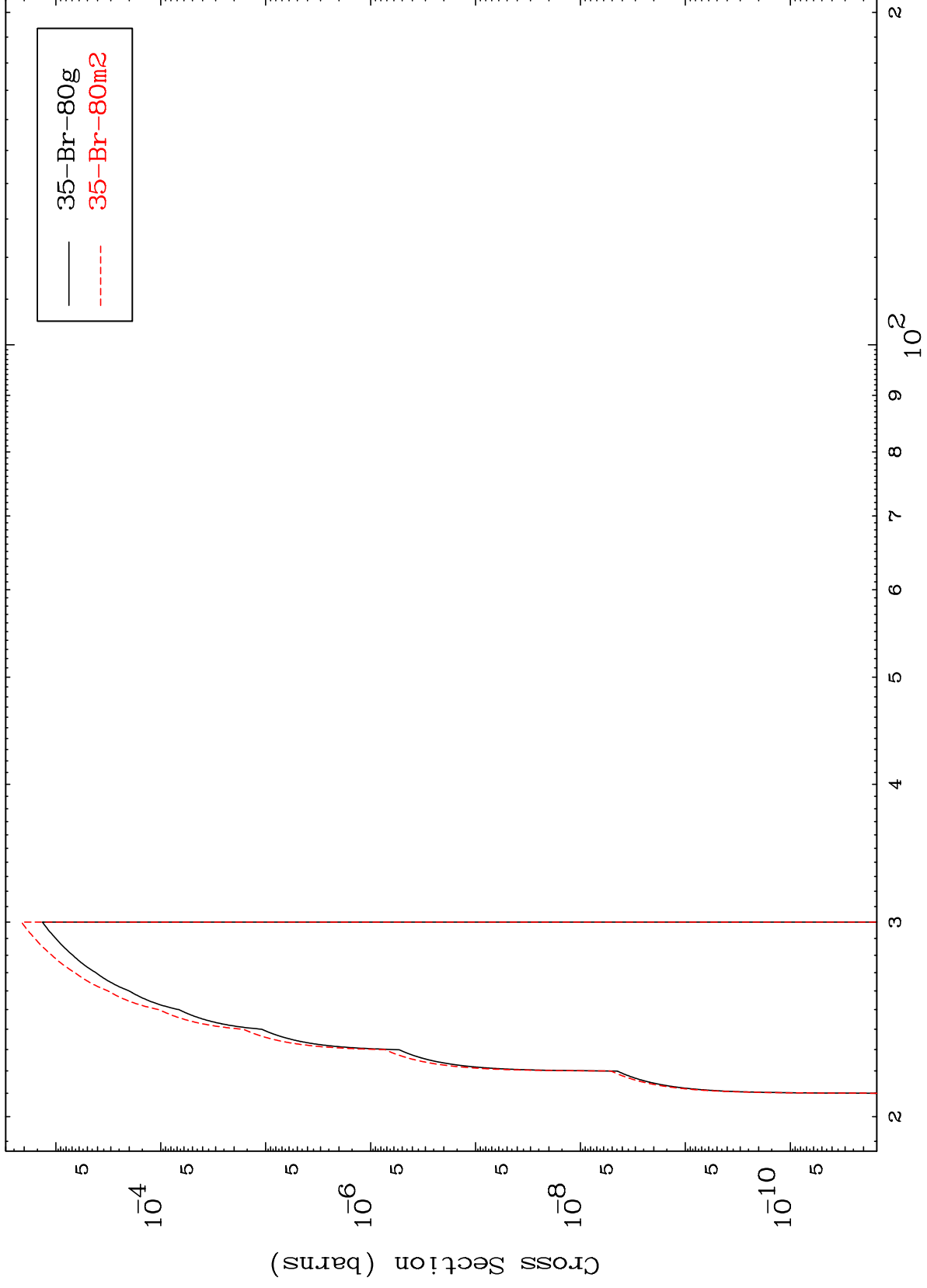
36-Kr-83m

MAT 3641

(n,n') t

36-Kr-83m

Radionuclide Production Cross Section



26

Incident Energy (MeV)

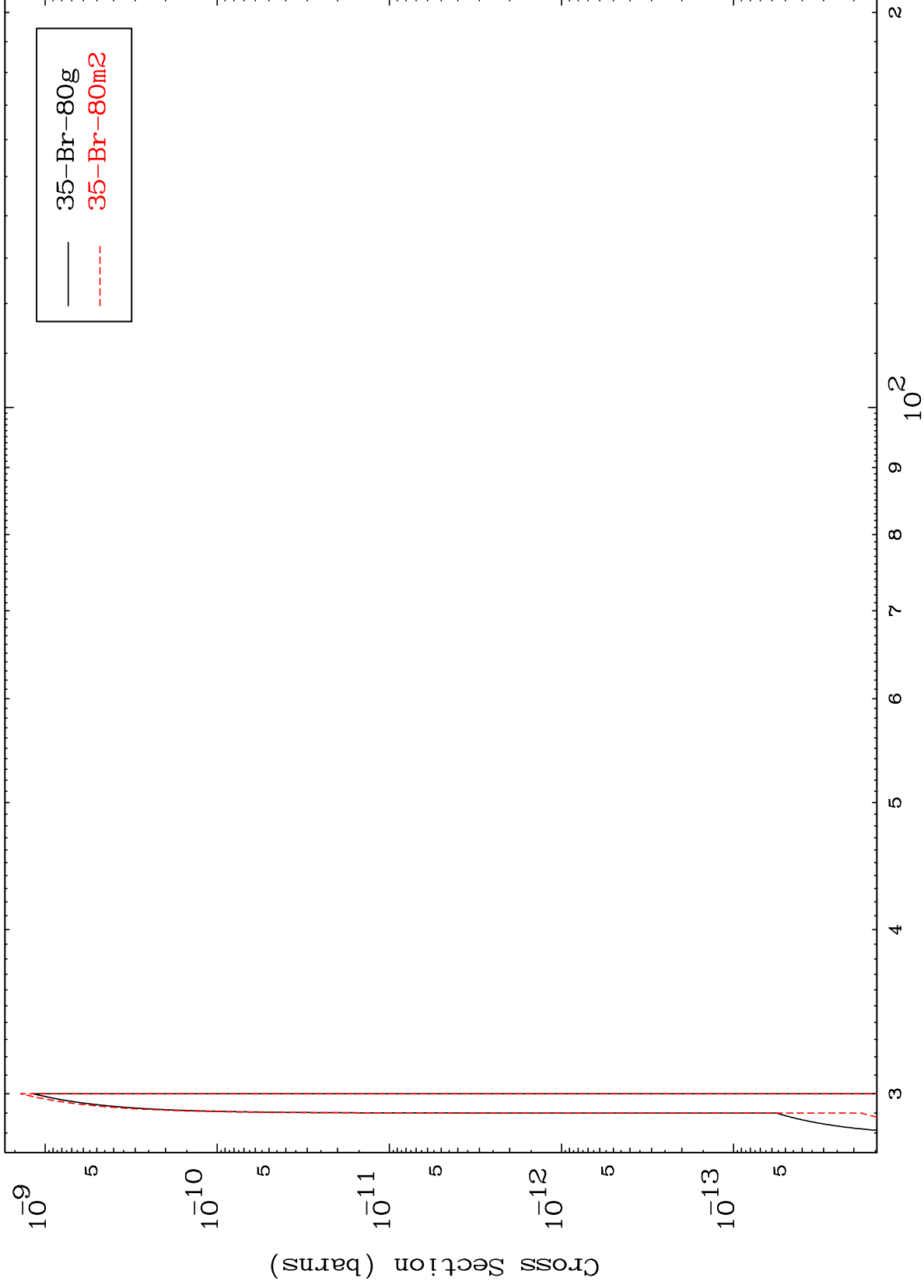
36-Kr-83m

MAT 3641

(n,3n) p

36-Kr-83m

Radionuclide Production Cross Section



27

Incident Energy (MeV)

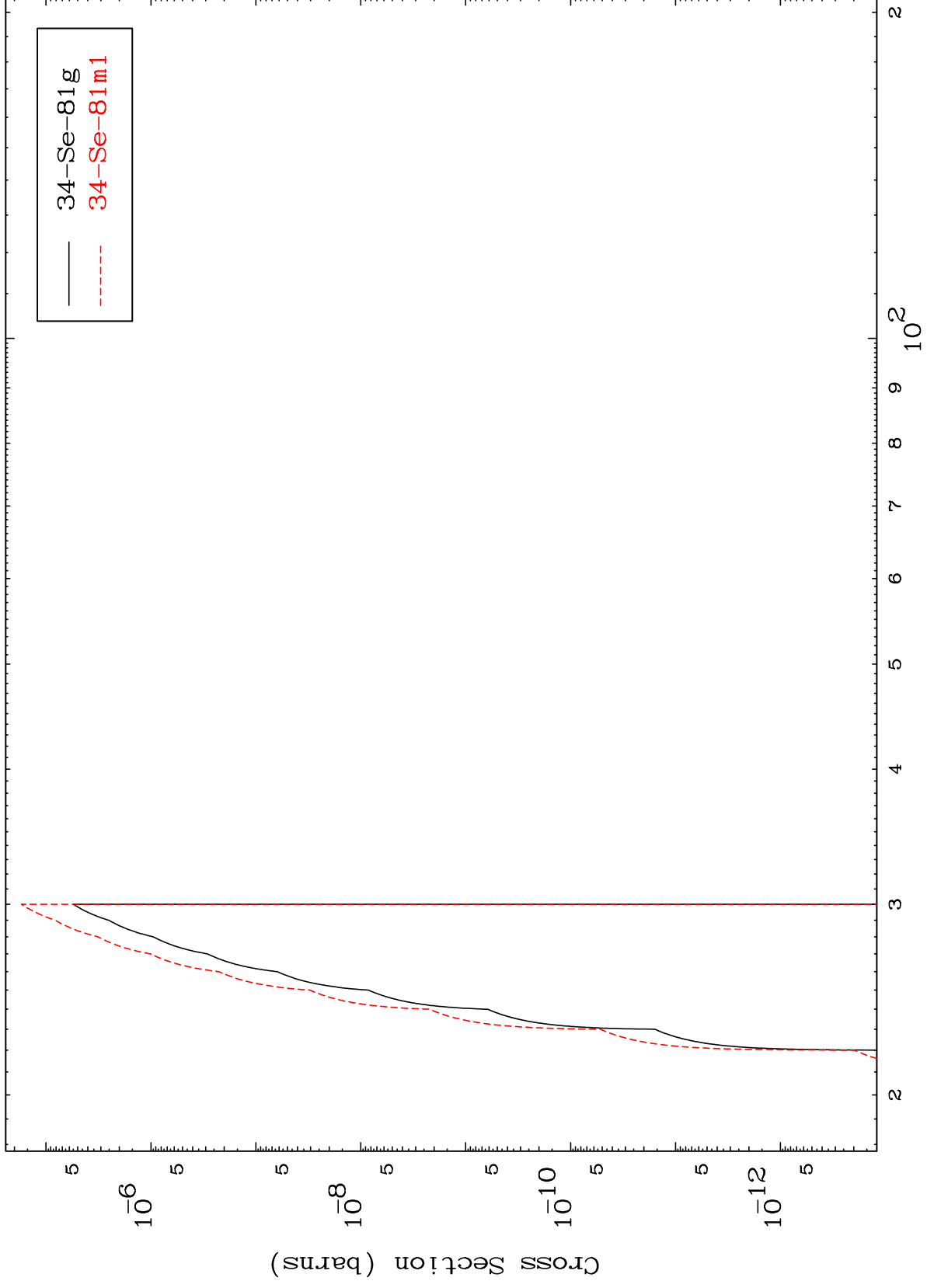
36-Kr-83m

MAT 3641

$(n,2n)$ p

$^{36}\text{Kr-83m}$

Radionuclide Production Cross Section



28

Incident Energy (MeV)

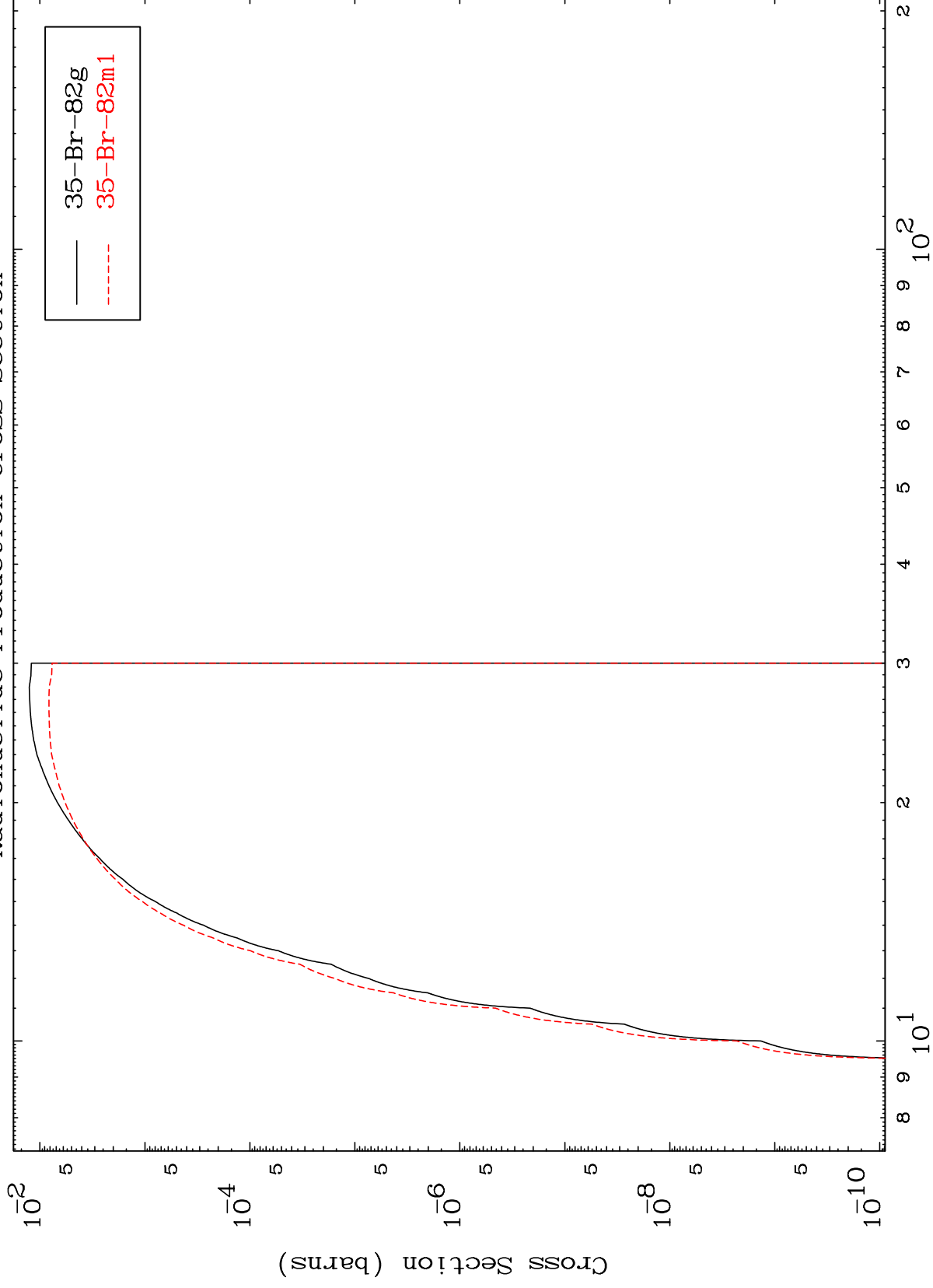
$^{36}\text{Kr-83m}$

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(n,d)

36-Kr-83m

Radionuclide Production Cross Section



29

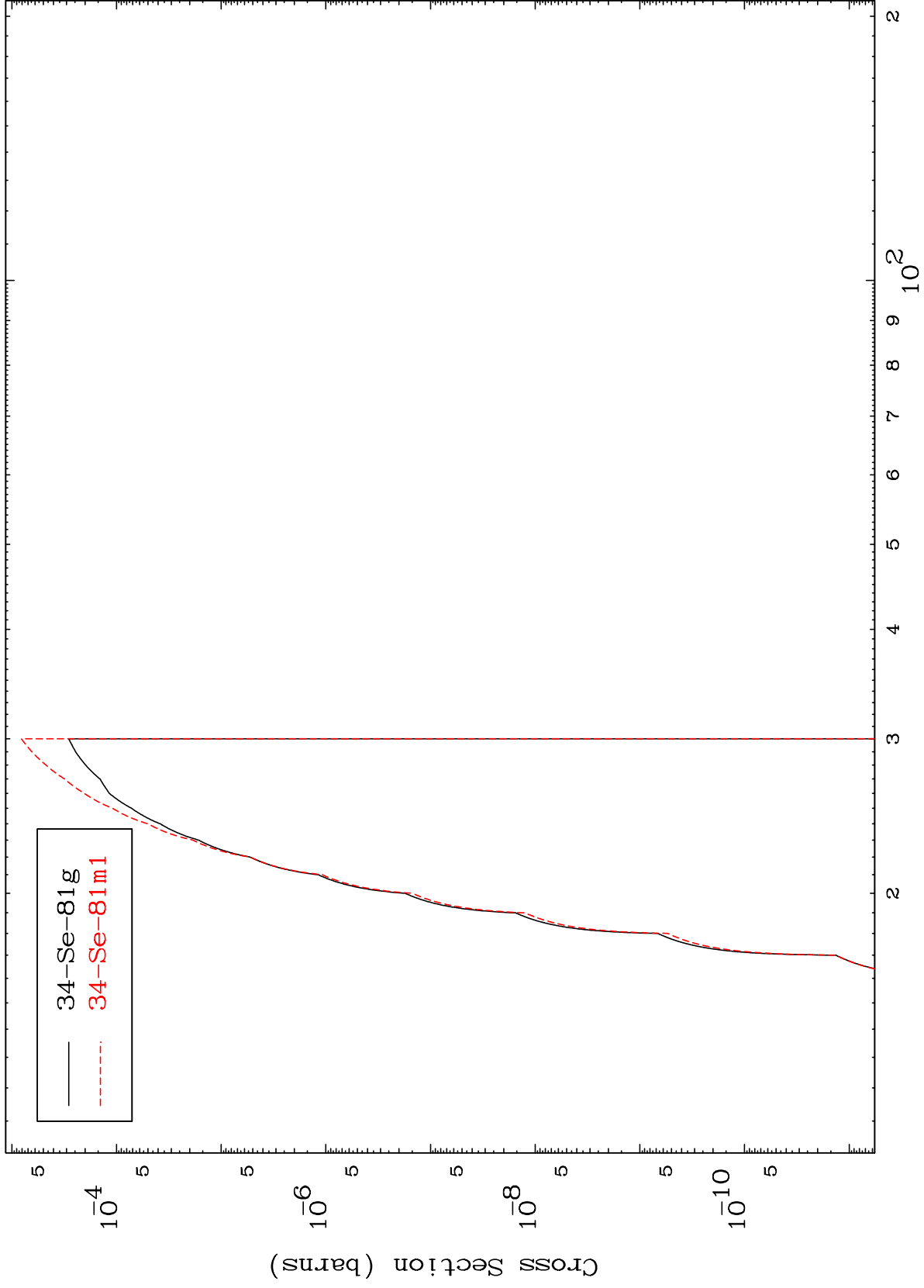
Incident Energy (MeV)

36-Kr-83m

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36-Kr-83m

(n,He-3)
Radionuclide Production Cross Section



30

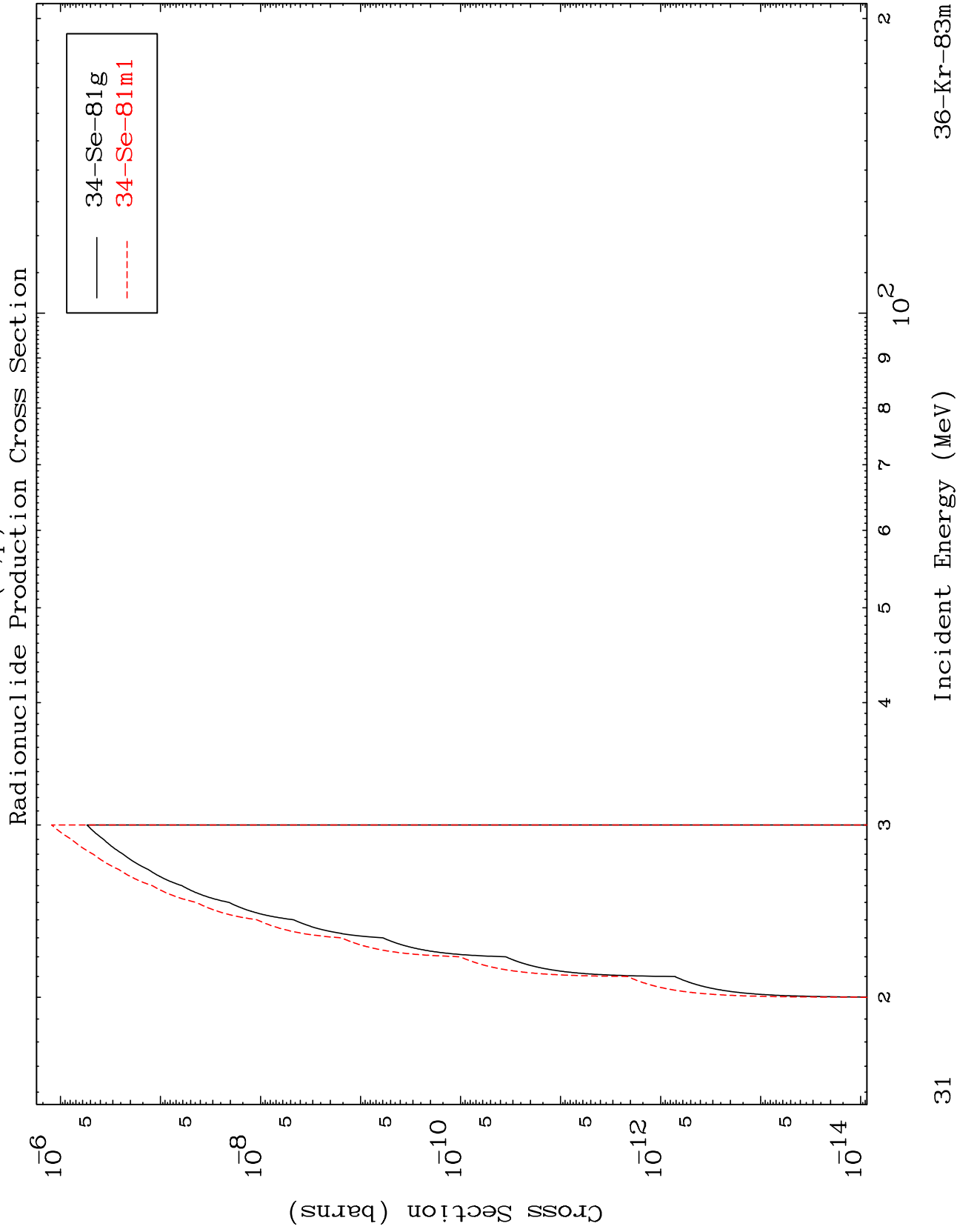
Incident Energy (MeV)

36-Kr-83m

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(n,p) d

36-Kr-83m



31

36-Kr-83m