

Program EVALPLOT  
(Version 2021-1)

by

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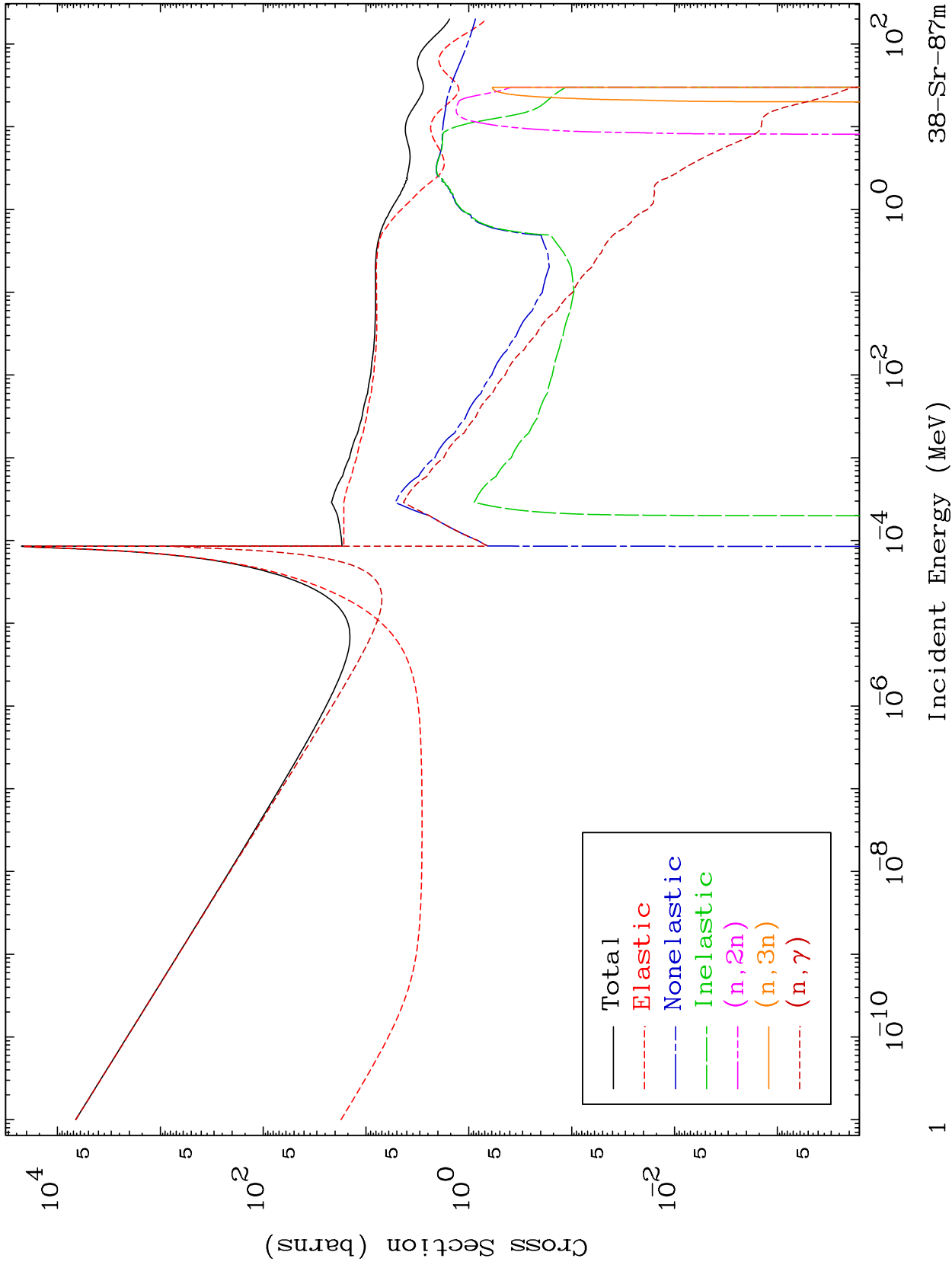
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3835

Neutron Major  
293 Kelvin Cross Sections

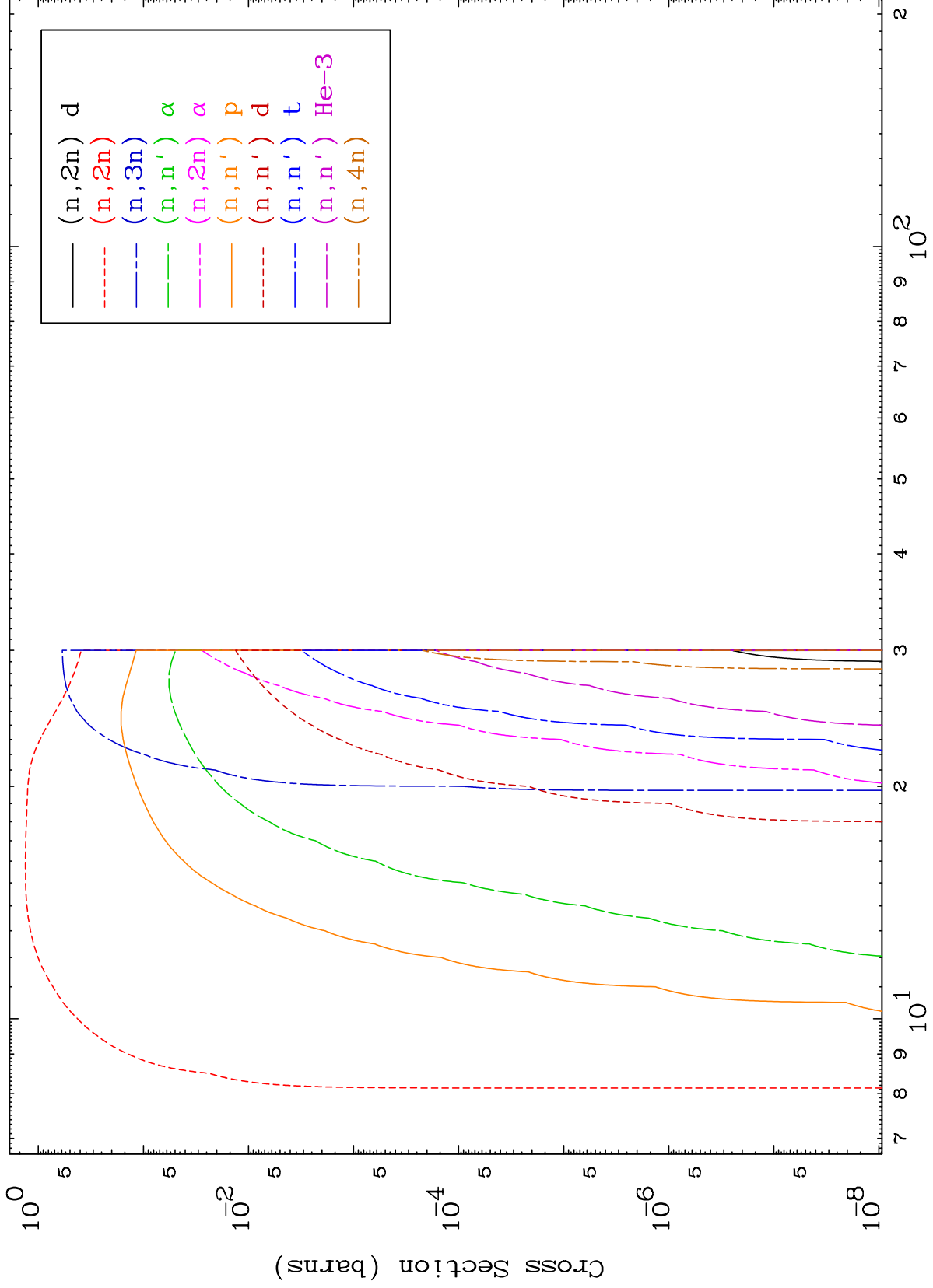
38-Sr-87m



MAT 3835

Neutron Absorption  
293 Kelvin Cross Sections

38-Sr-87m



2

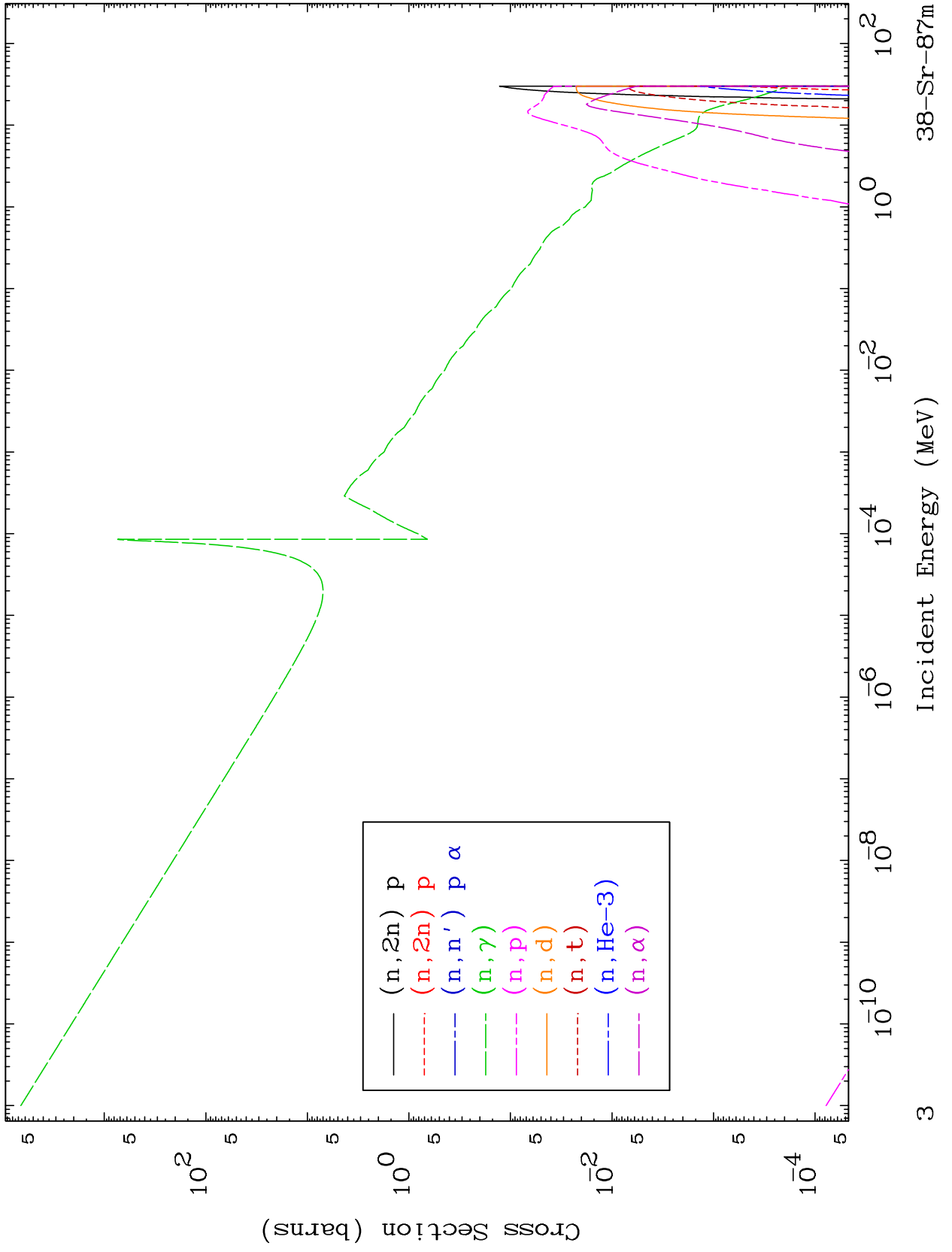
Incident Energy (MeV)

38-Sr-87m

MAT 3835

Neutron Absorption  
293 Kelvin Cross Sections

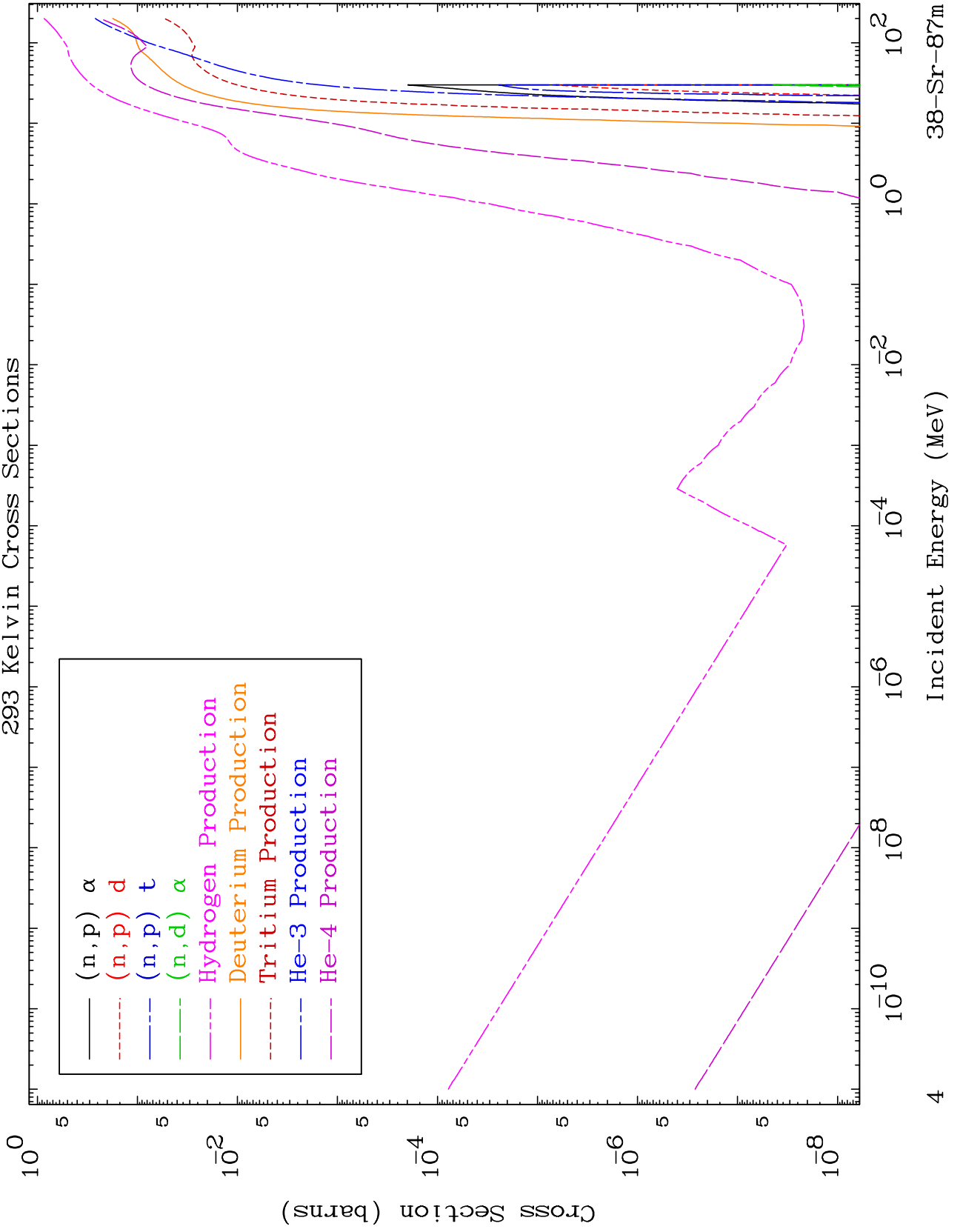
38-Sr-87m



MAT 3835

Neutron Absorption  
293 Kelvin Cross Sections

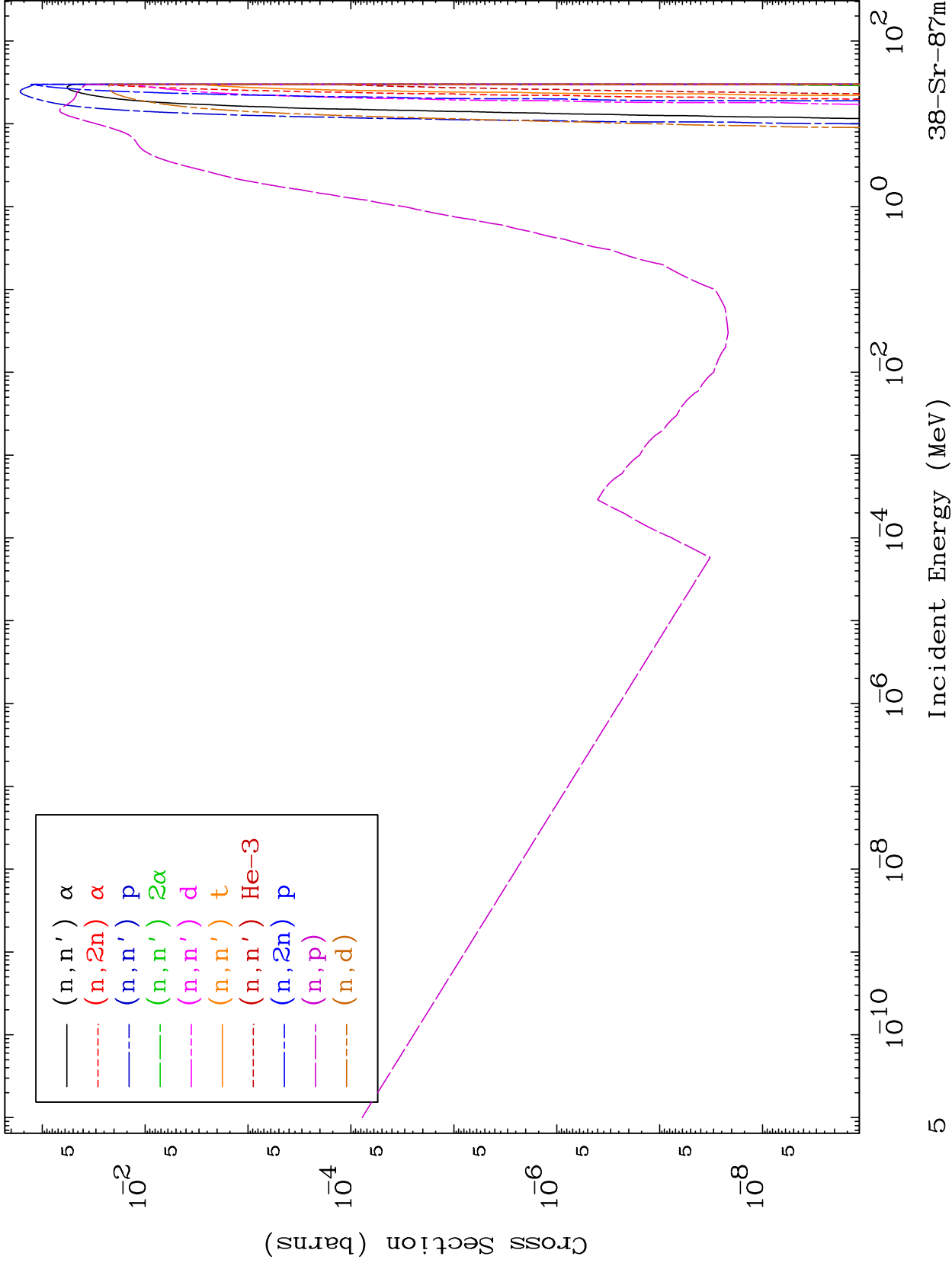
38-Sr-87m



MAT 3835

Charged Particle  
293 Kelvin Cross Sections

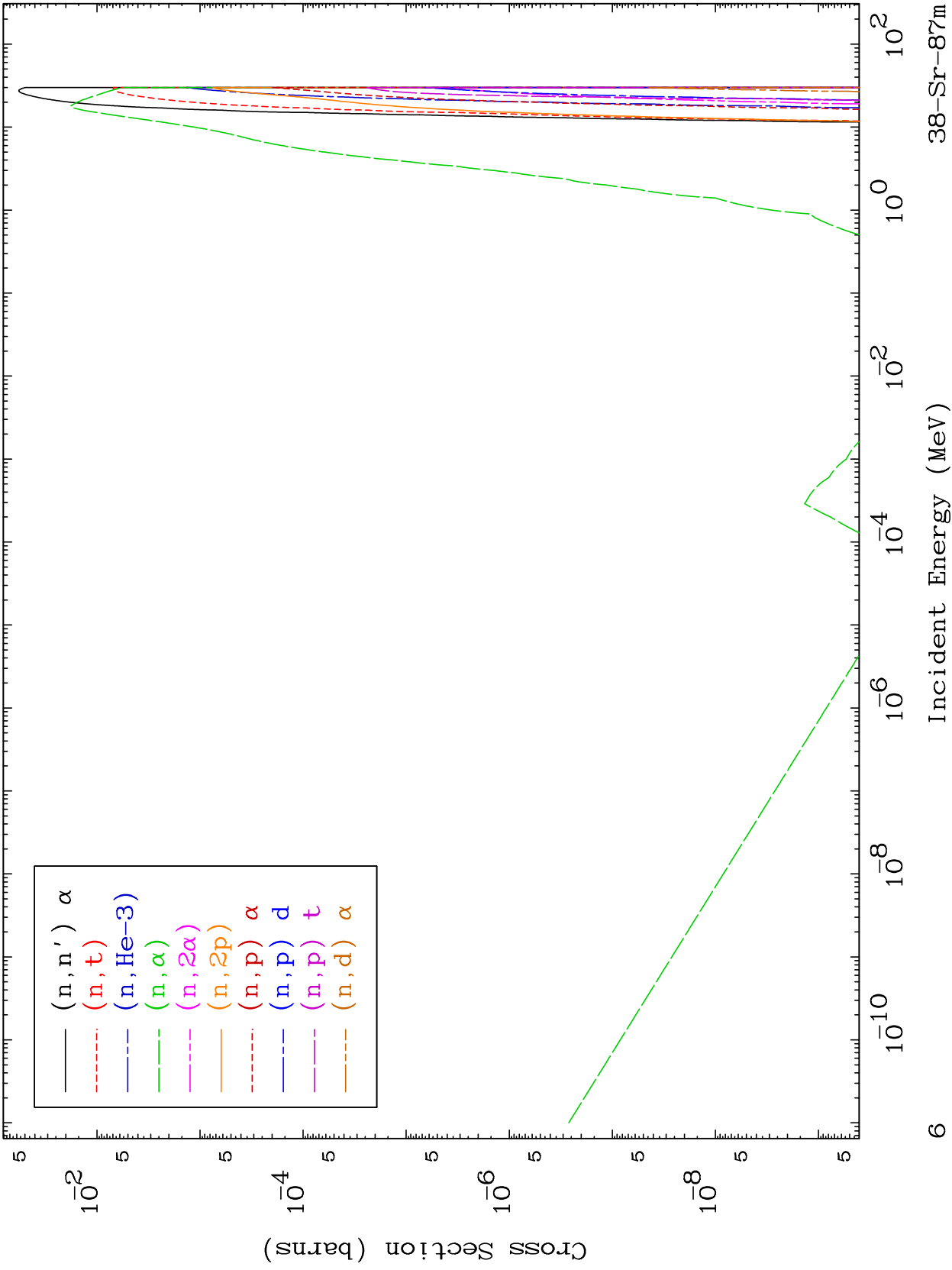
38-Sr-87m



MAT 3835

Charged Particle  
293 Kelvin Cross Sections

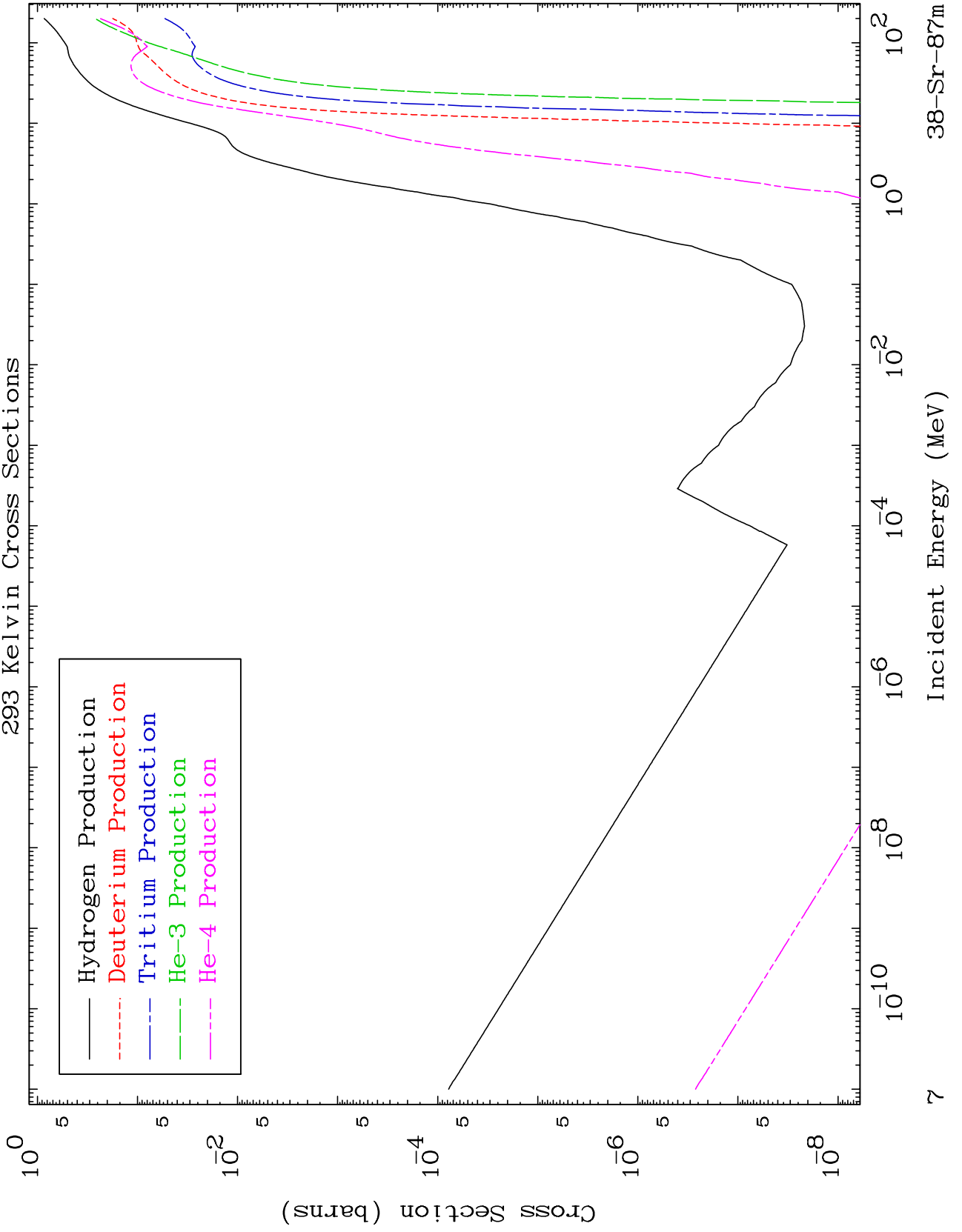
38-Sr-87m



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Particle Production  
293 Kelvin Cross Sections

38-Sr-87m

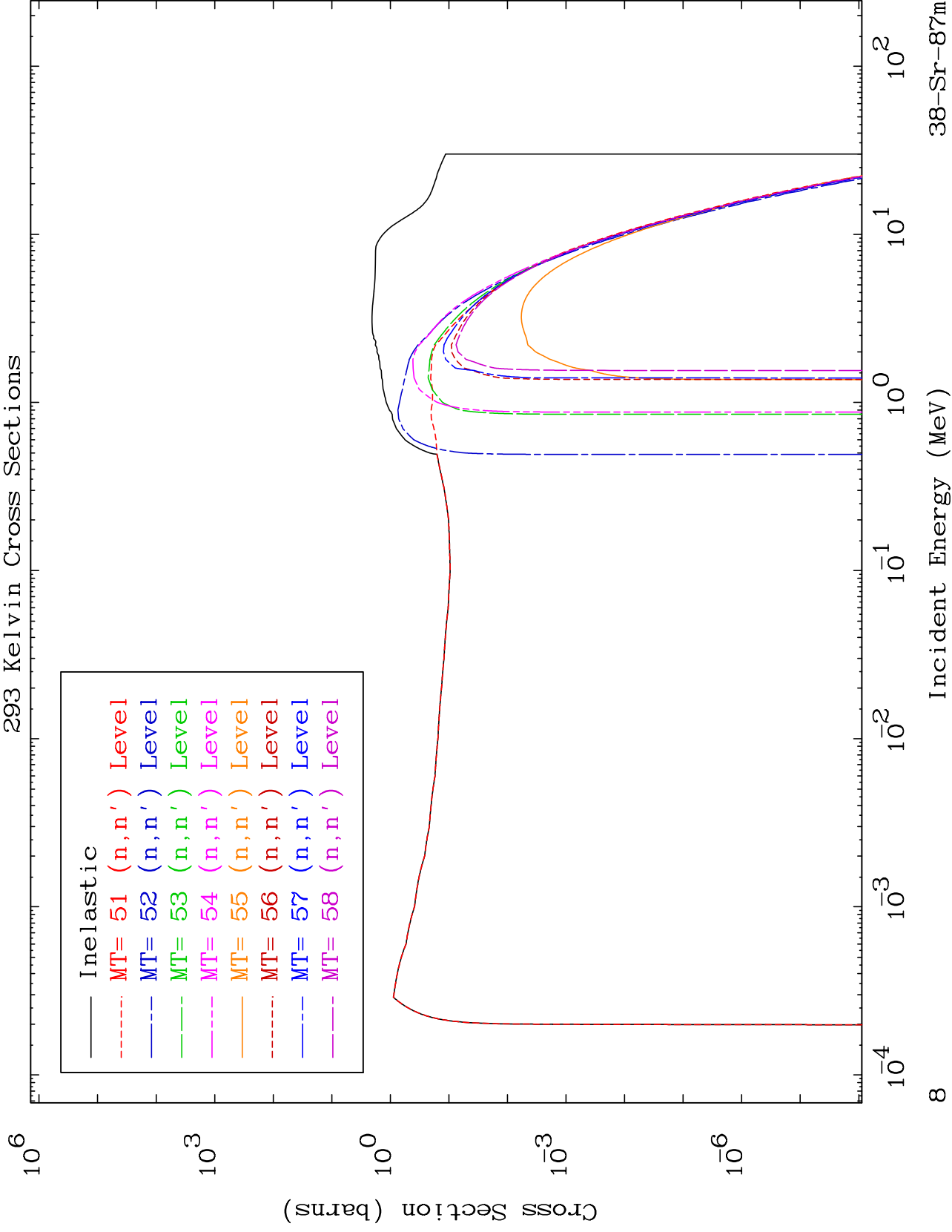


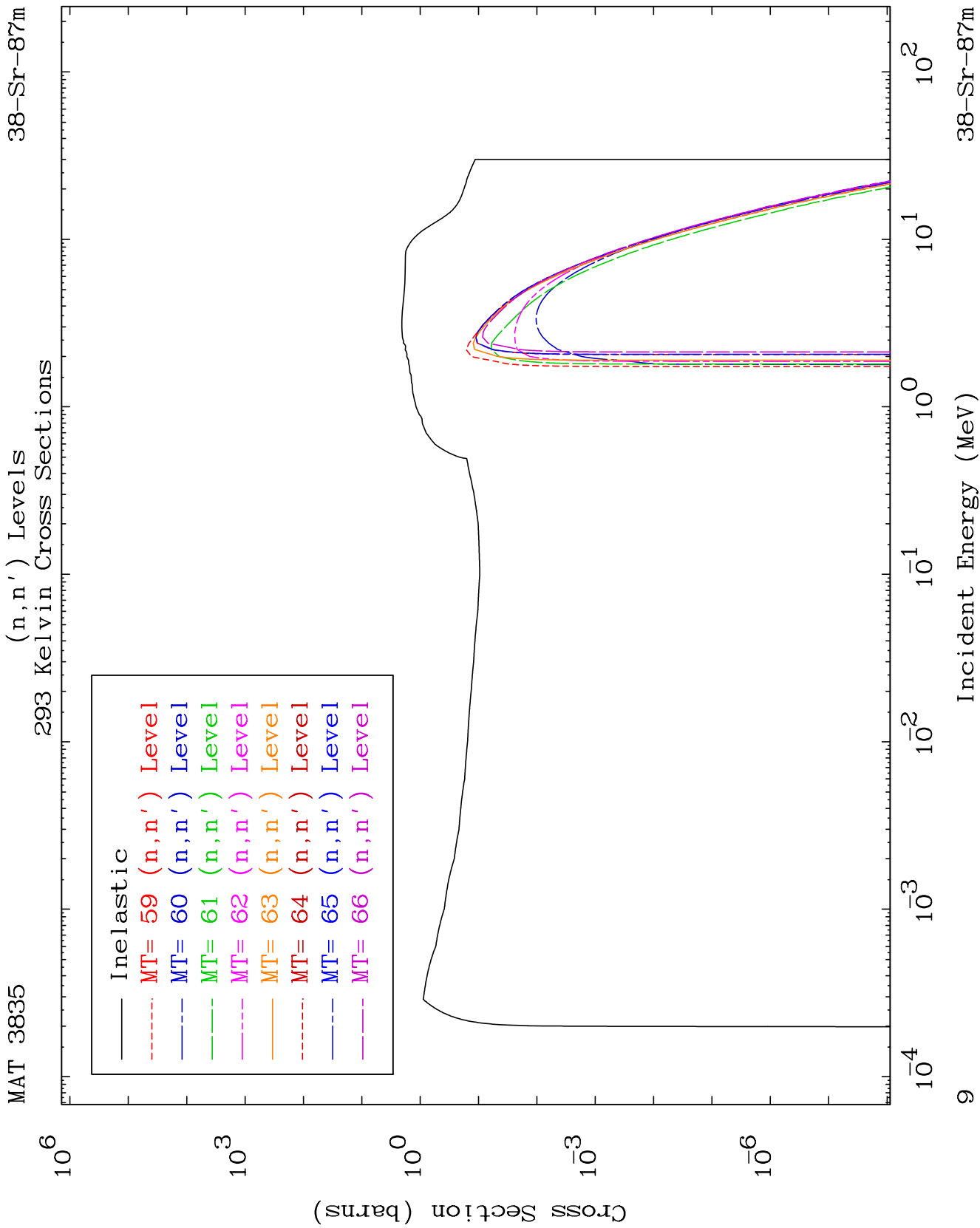


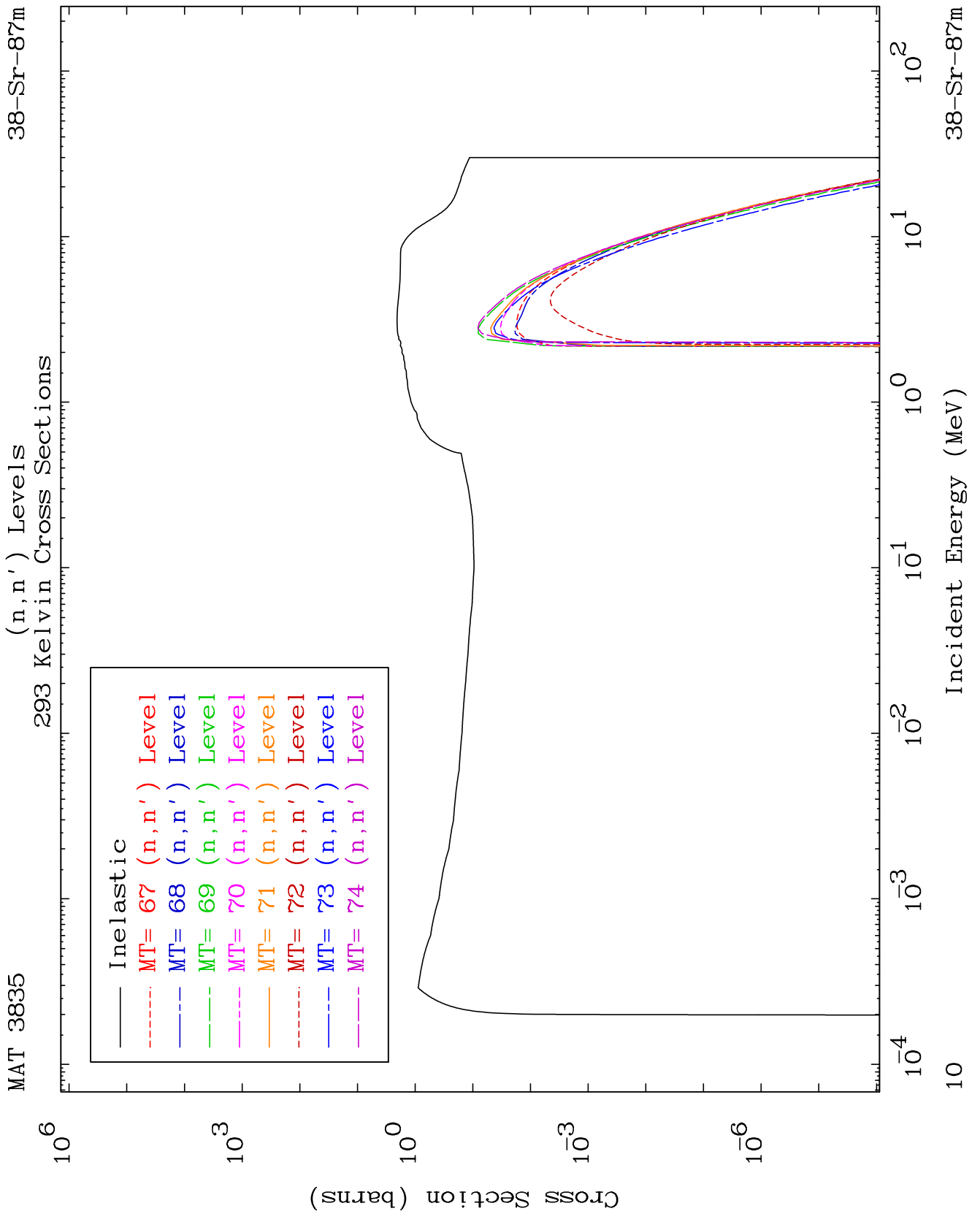
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(n,n') Levels  
293 Kelvin Cross Sections

38-Sr-87m



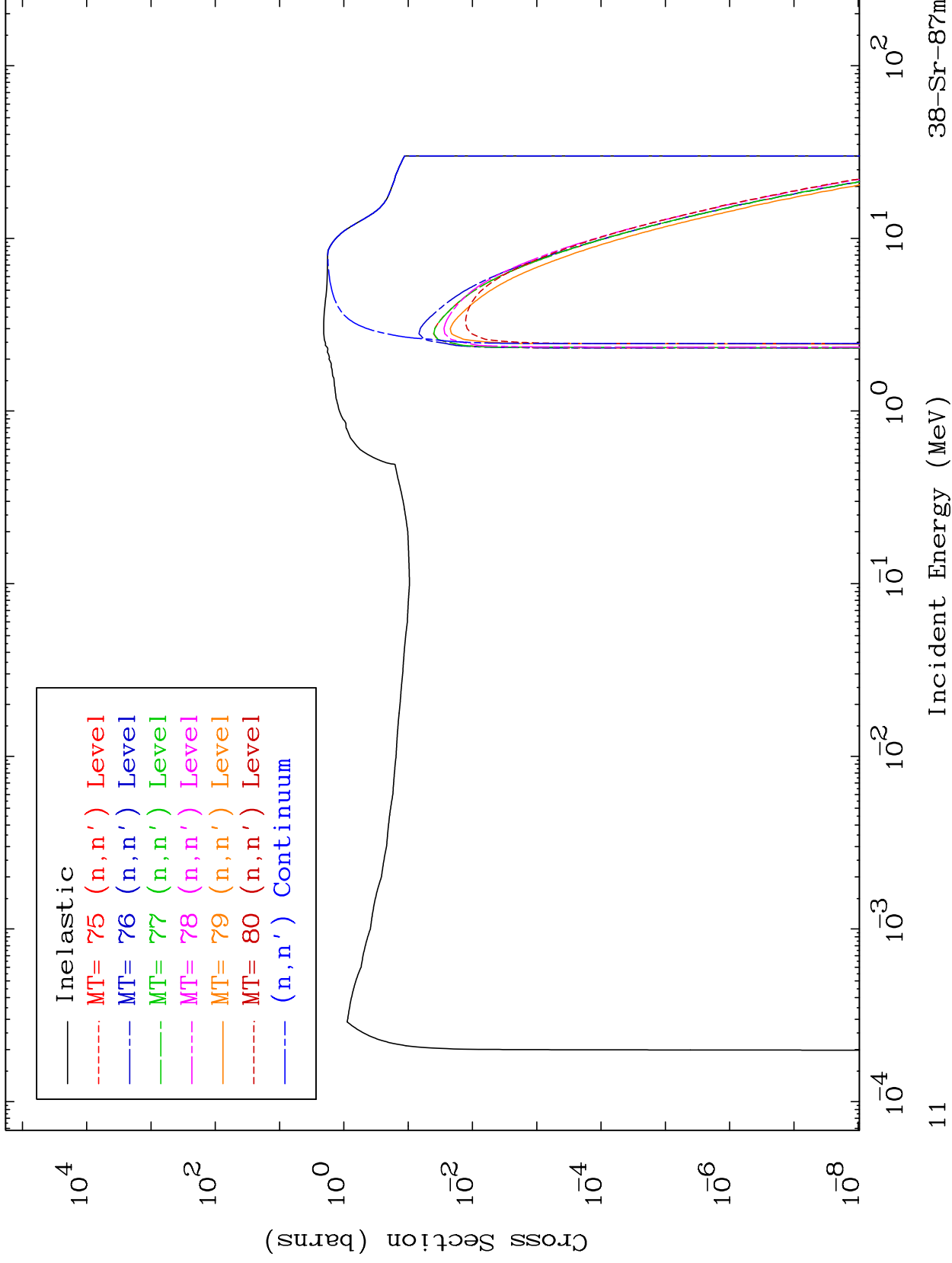




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(n,n') Levels  
293 Kelvin Cross Sections

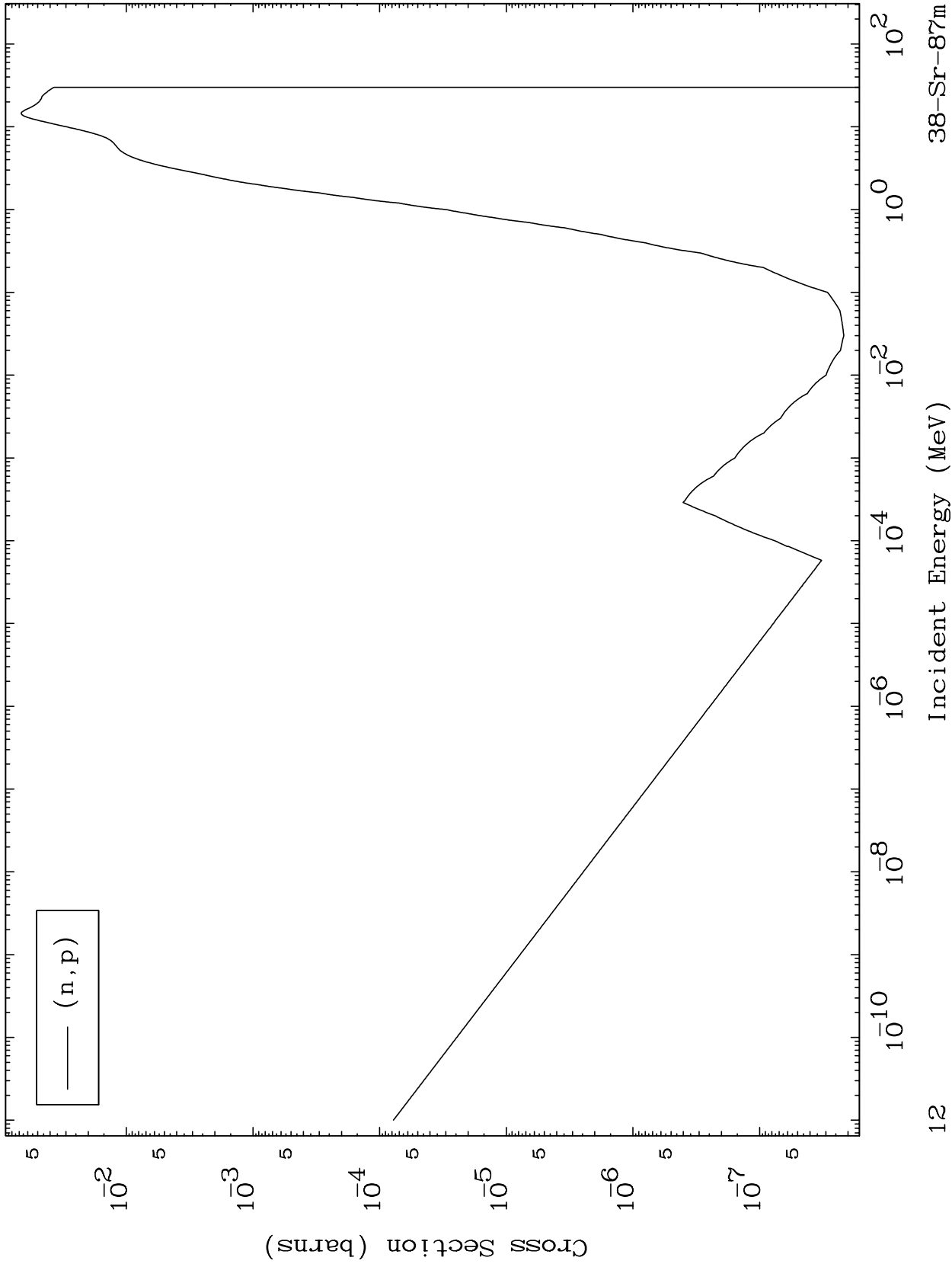
38-Sr-87m



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(n,p) Levels  
293 Kelvin Cross Sections

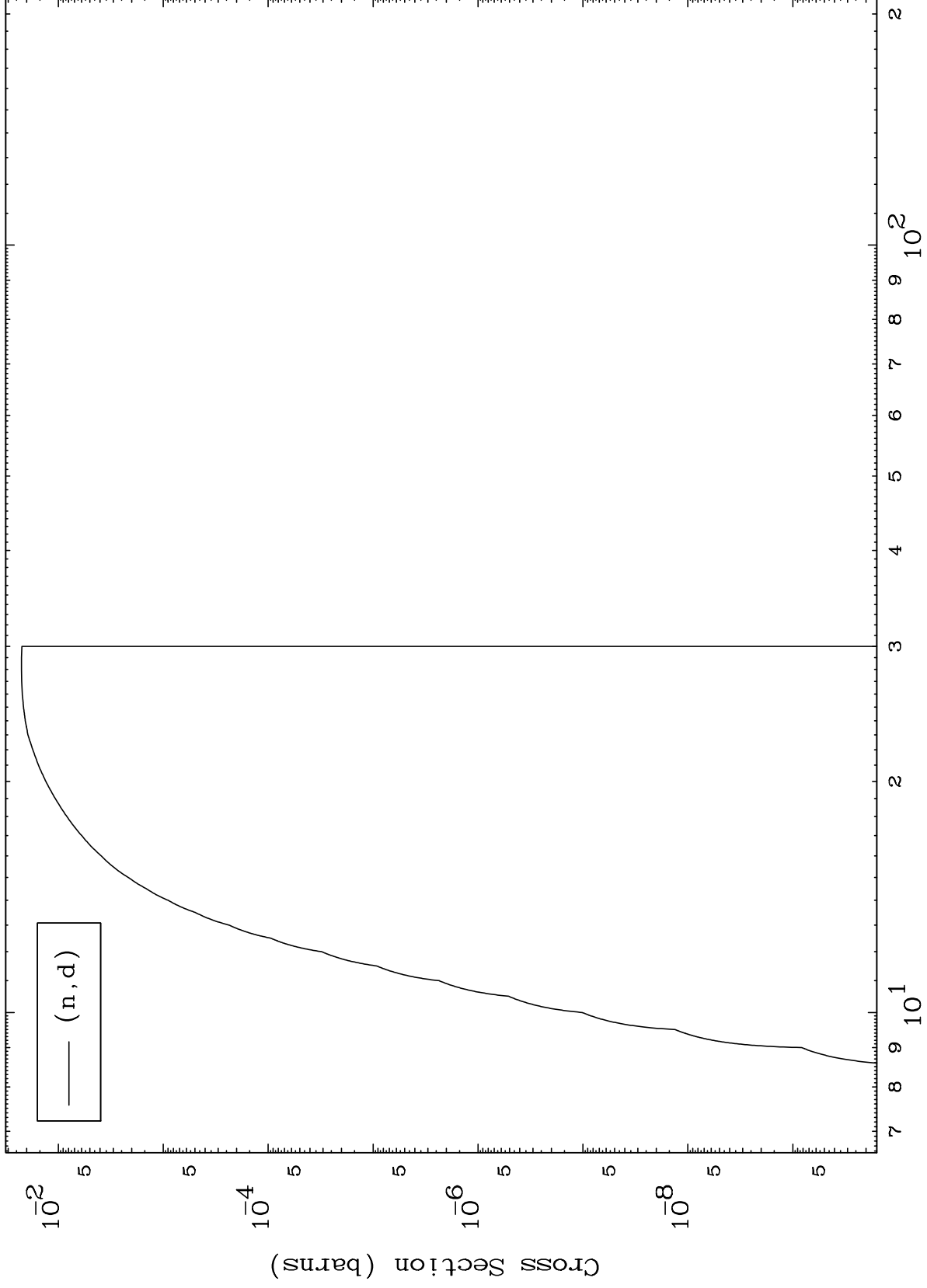
38-Sr-87m



MAT 3835

(n,d) Levels  
293 Kelvin Cross Sections

38-Sr-87m



13

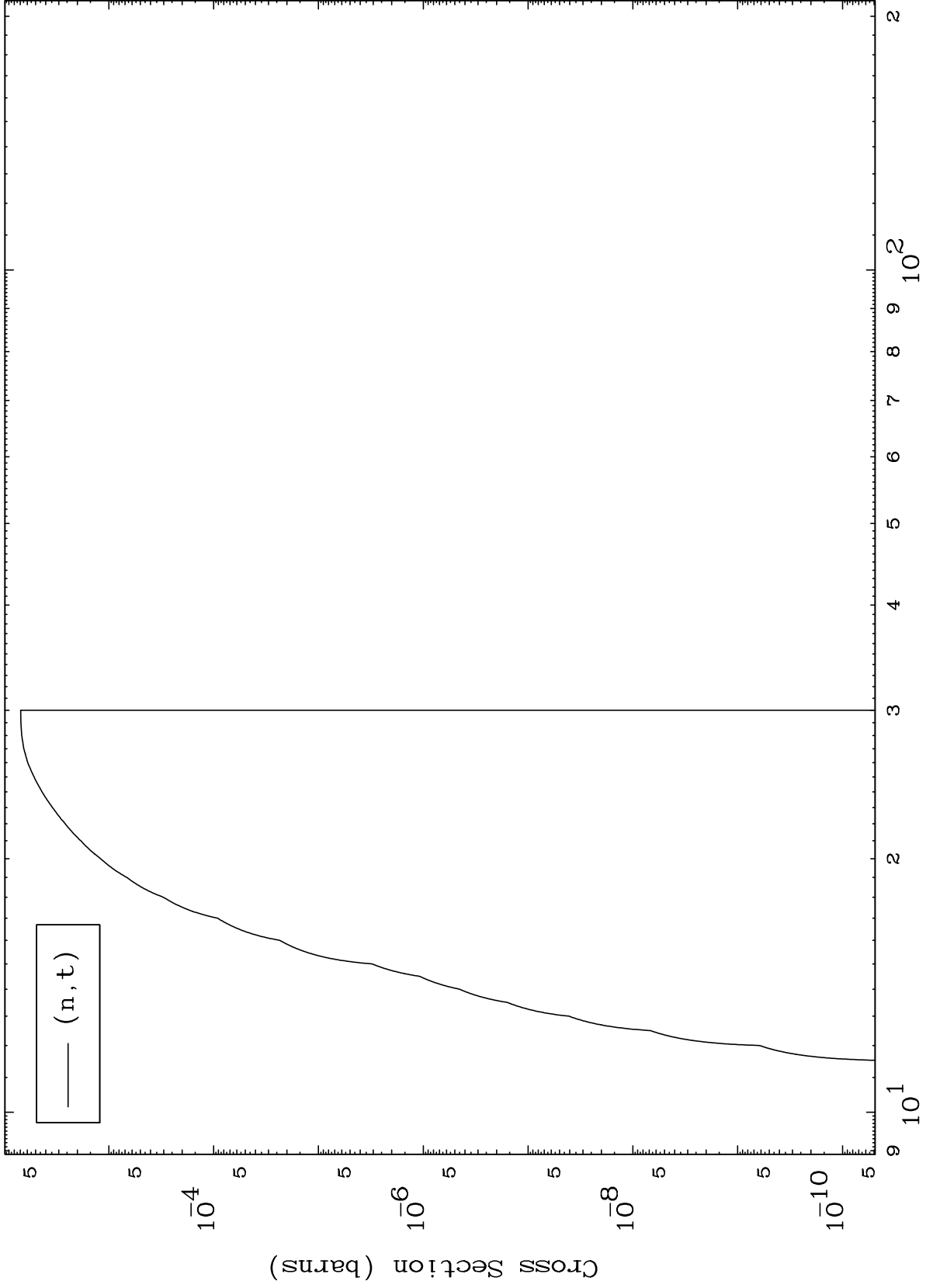
Incident Energy (MeV)

38-Sr-87m

MAT 3835

(n,t) Levels  
293 Kelvin Cross Sections

38-Sr-87m



14

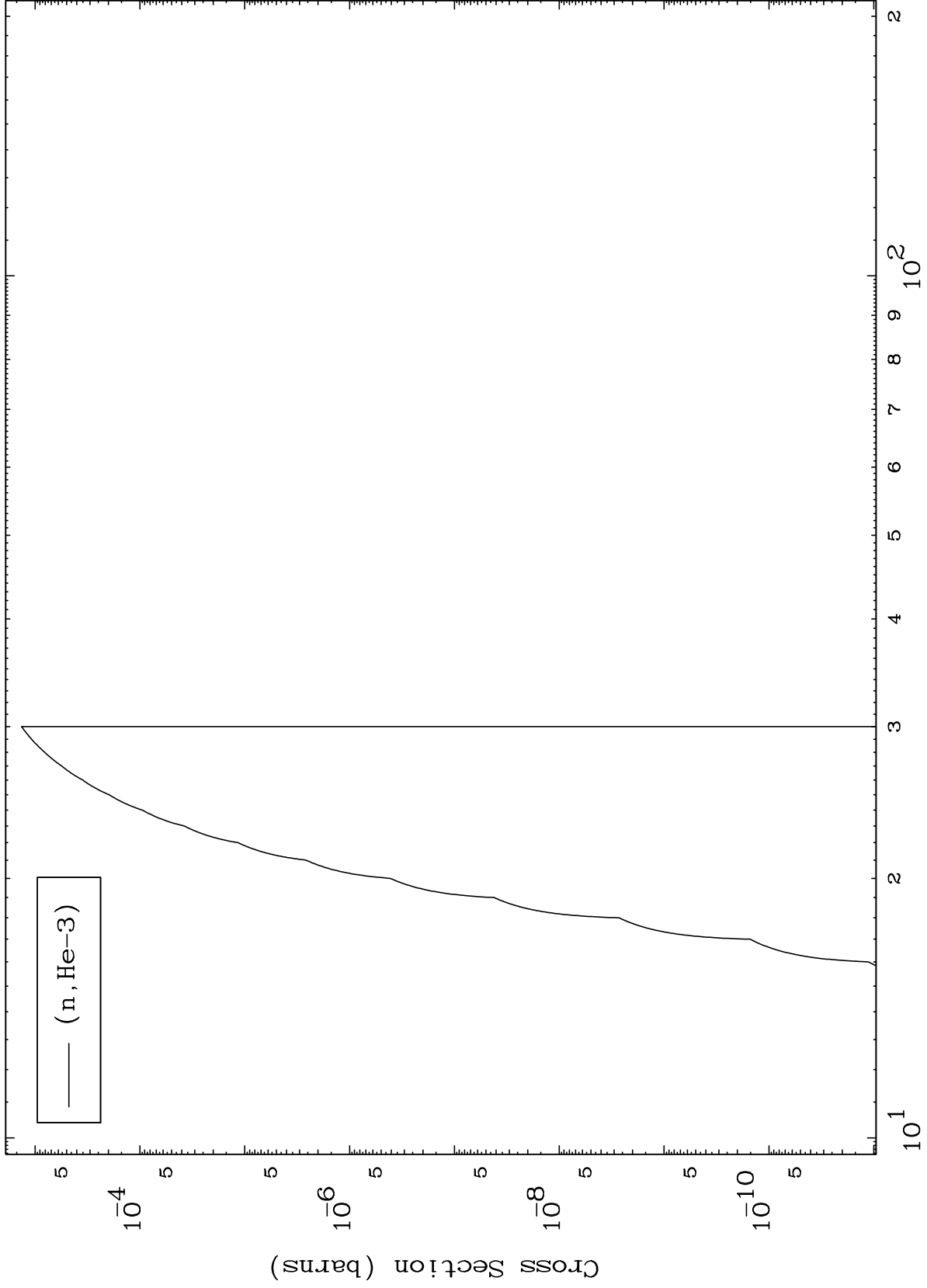
Incident Energy (MeV)

38-Sr-87m

MAT 3835

(n,He3) Levels  
293 Kelvin Cross Sections

38-Sr-87m



15

Incident Energy (MeV)

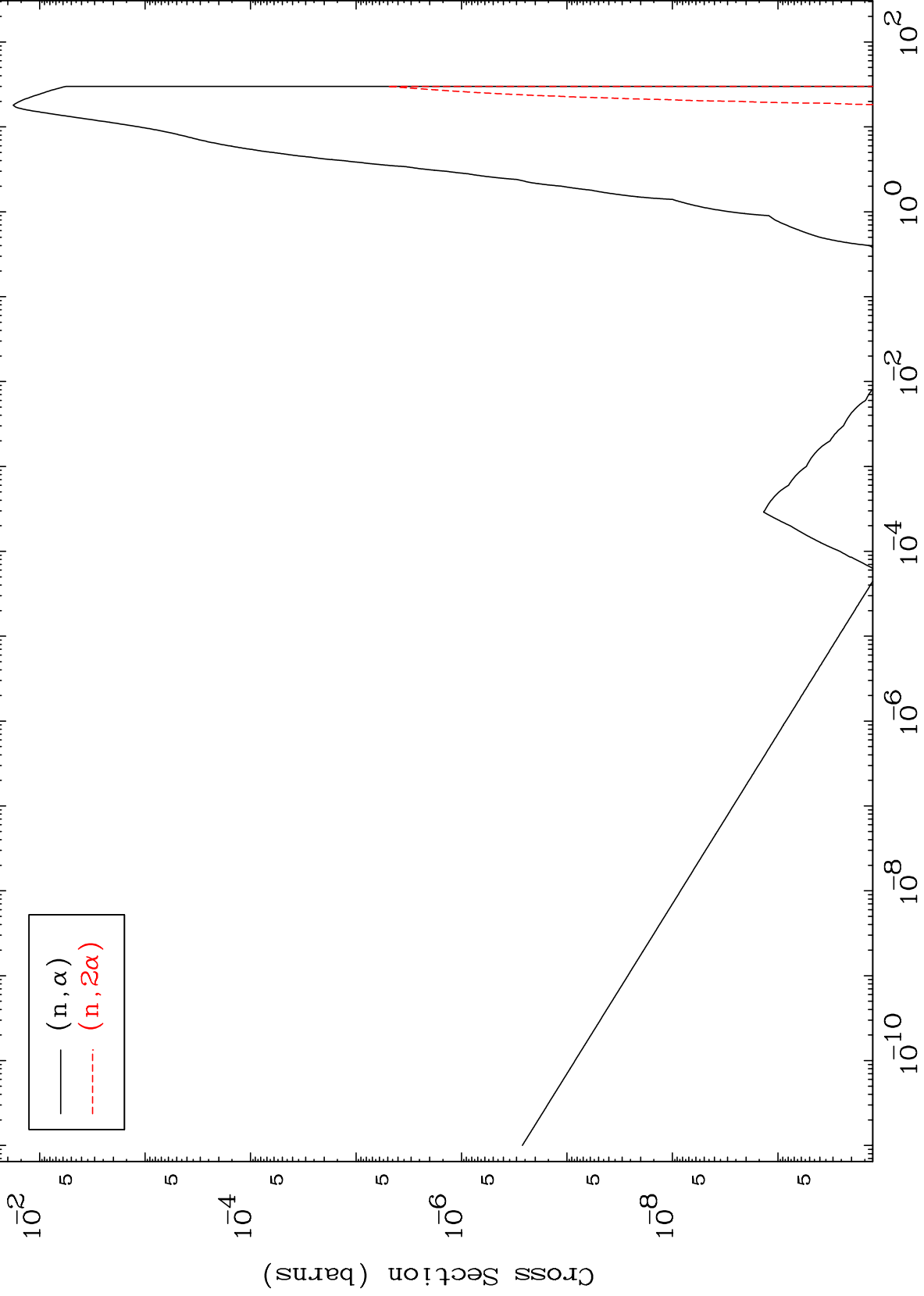
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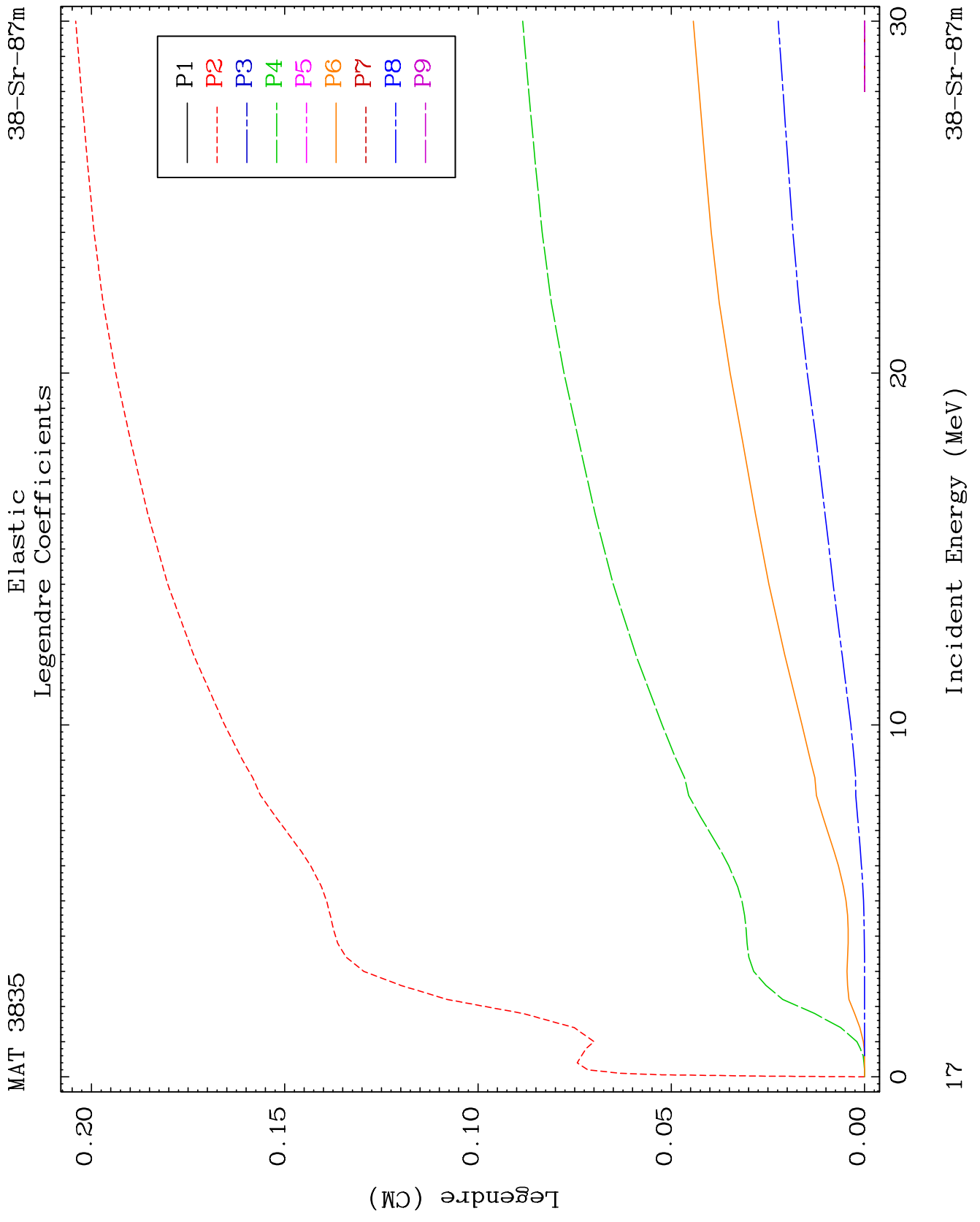


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(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

38-Sr-87m

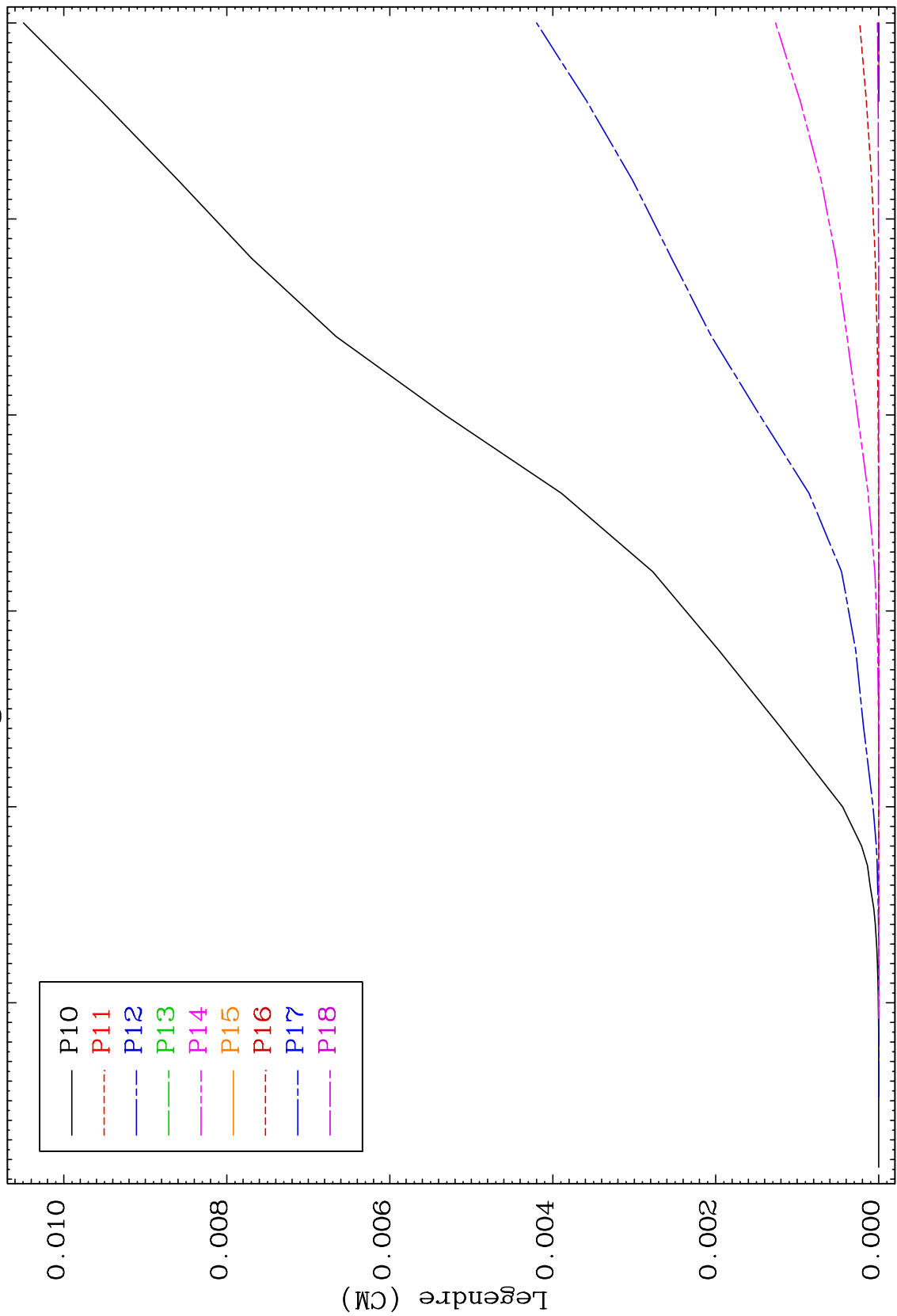




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Elastic Legendre Coefficients

38-Sr-87m



18

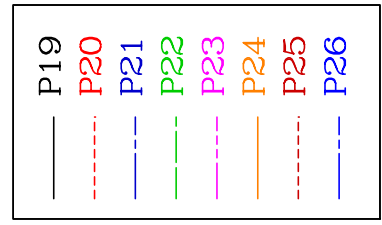
38-Sr-87m

Incident Energy (MeV)

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Elastic Legendre Coefficients

38-Sr-87m



$\times 10^{-7}$

Legendre (CM)

8

6

4

2

0

15

20

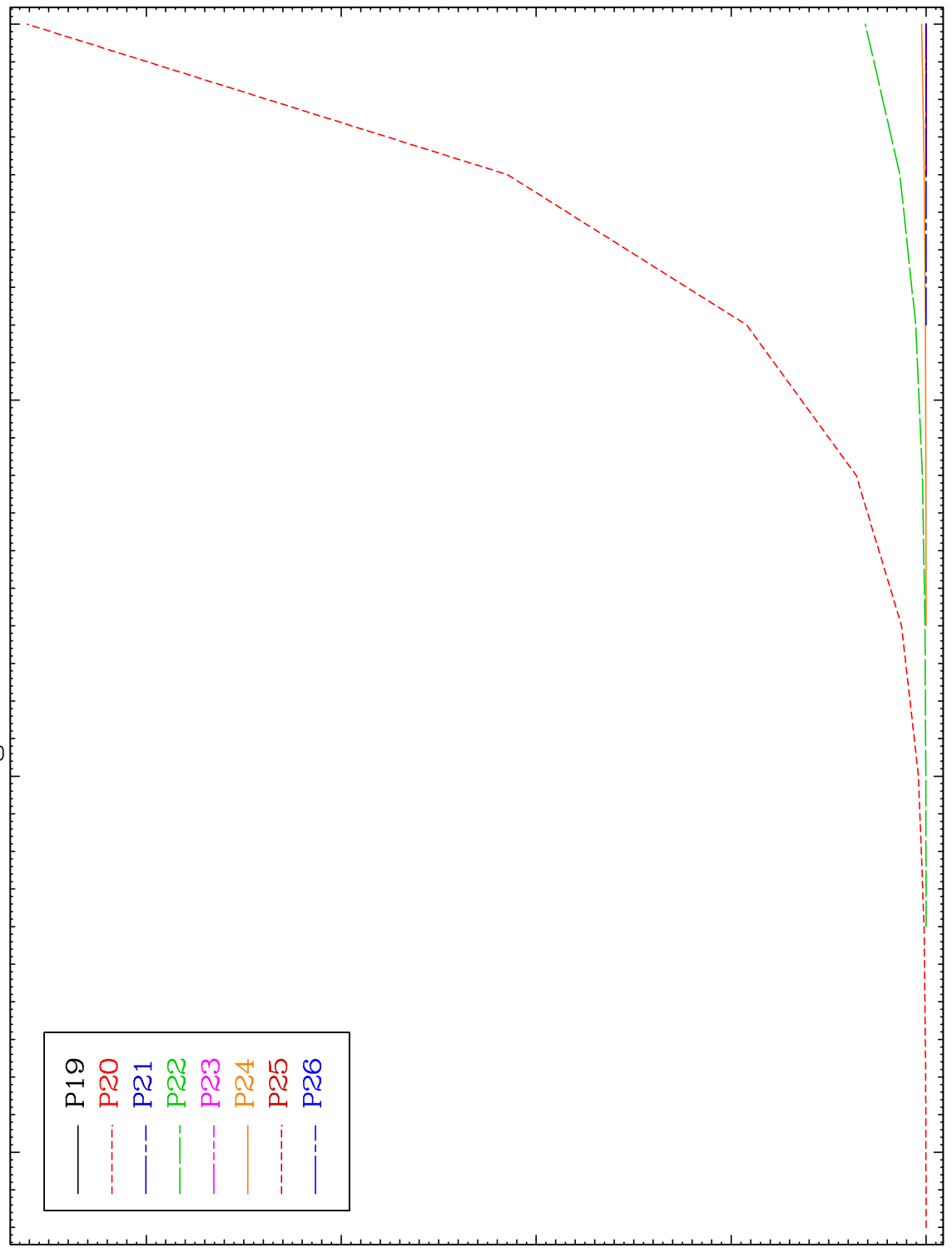
25

30

19

Incident Energy (MeV)

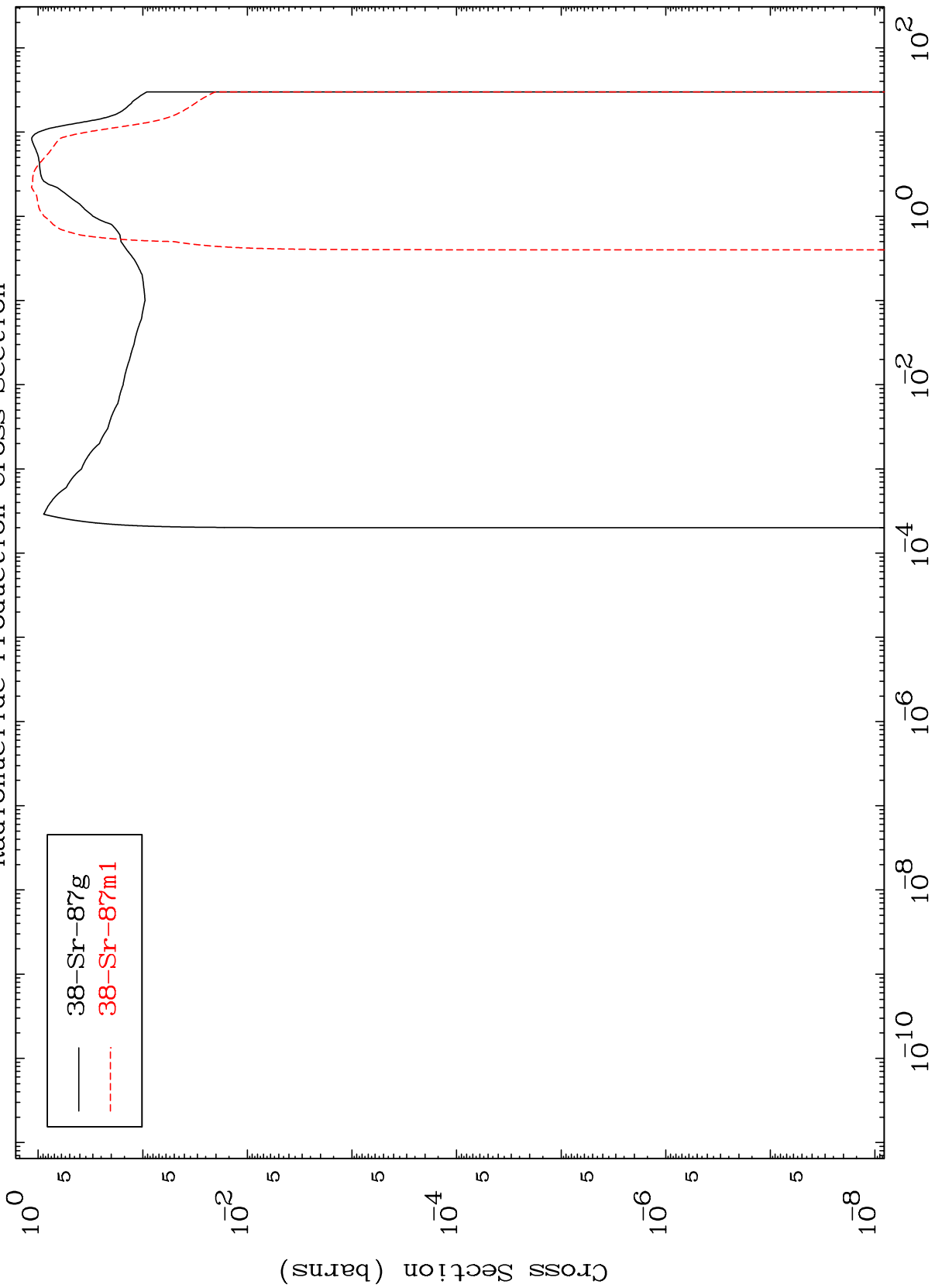
38-Sr-87m



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Inelastic  
Radionuclide Production Cross Section

<sup>38</sup>Sr-<sup>87</sup>m



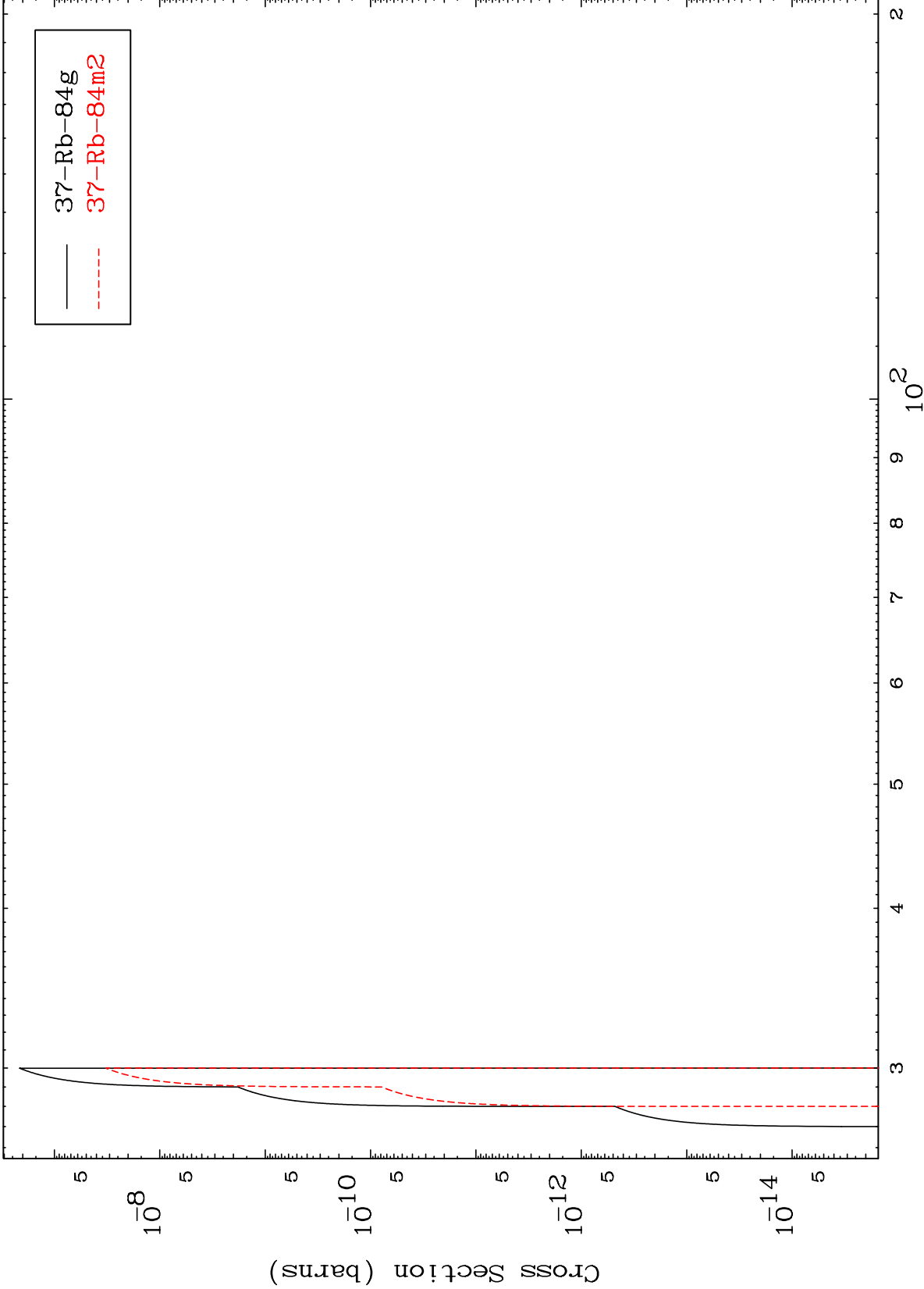
— 38-Sr-87g  
- - - 38-Sr-87m1

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(n,2n) d

38-Sr-87m

Radionuclide Production Cross Section

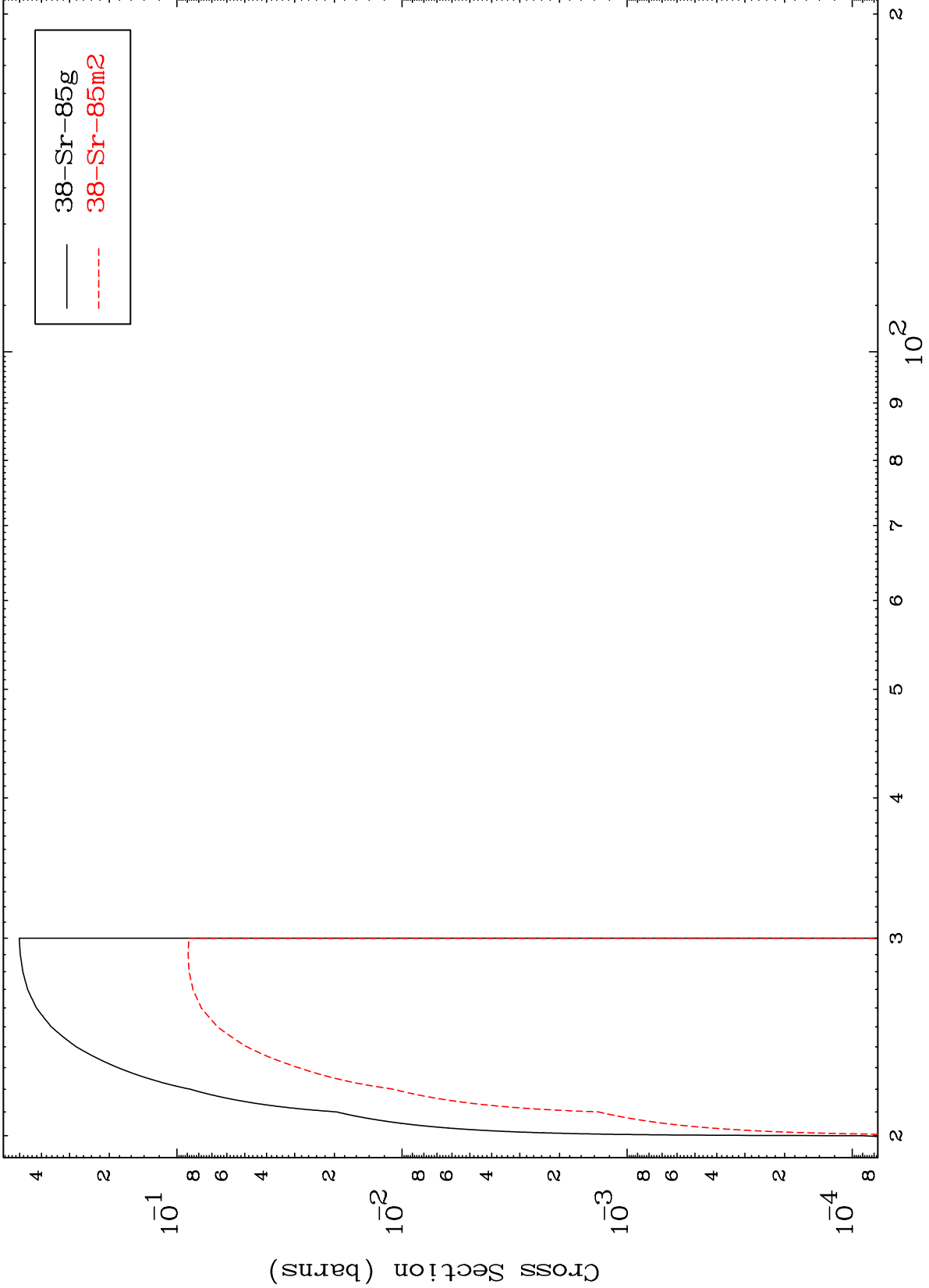


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(n,3n)

38-Sr-87m

Radionuclide Production Cross Section



22

Incident Energy (MeV)

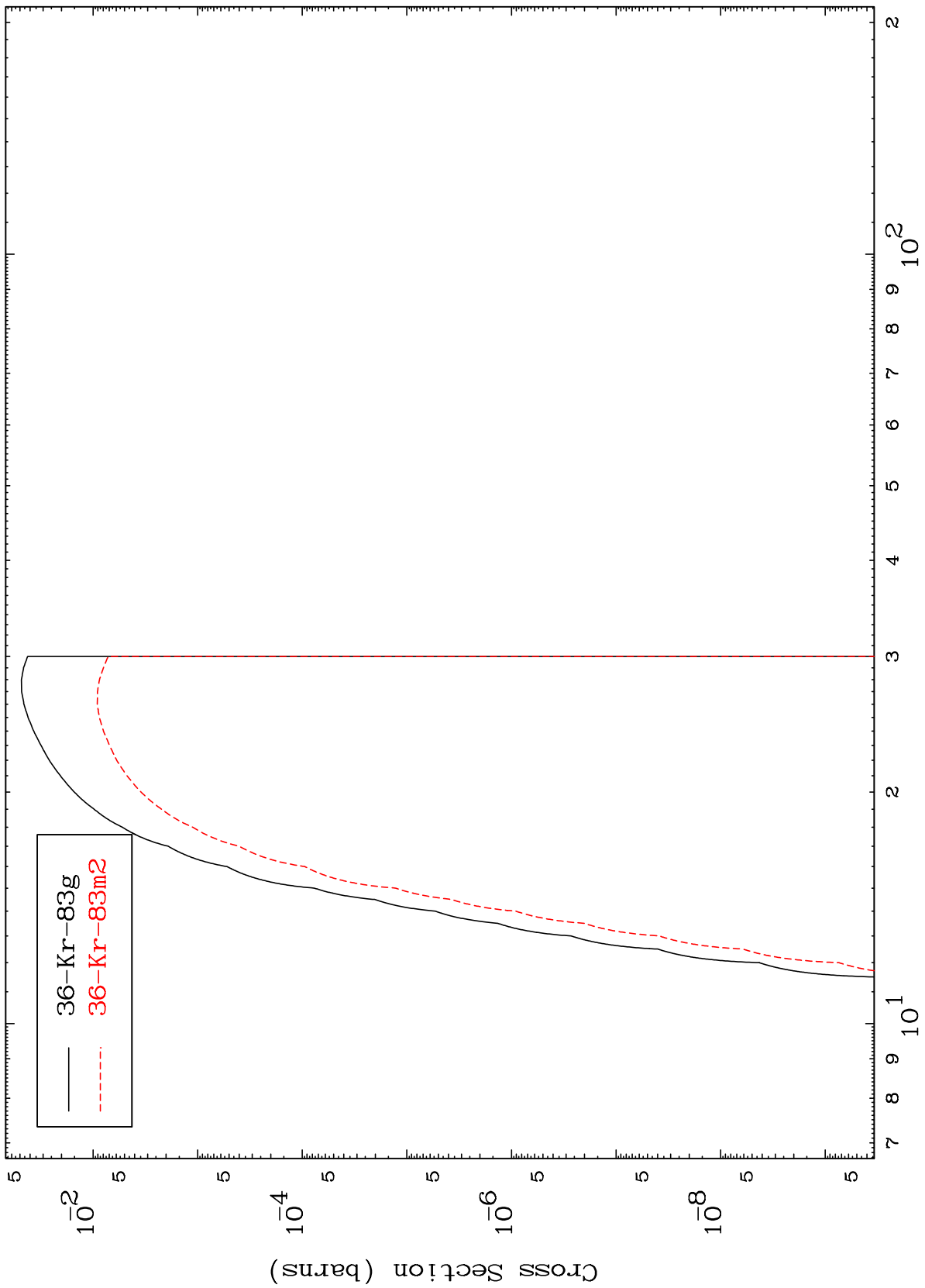
38-Sr-87m

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$(n, n') \alpha$

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

Radionuclide Production Cross Section



23

Incident Energy (MeV)

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

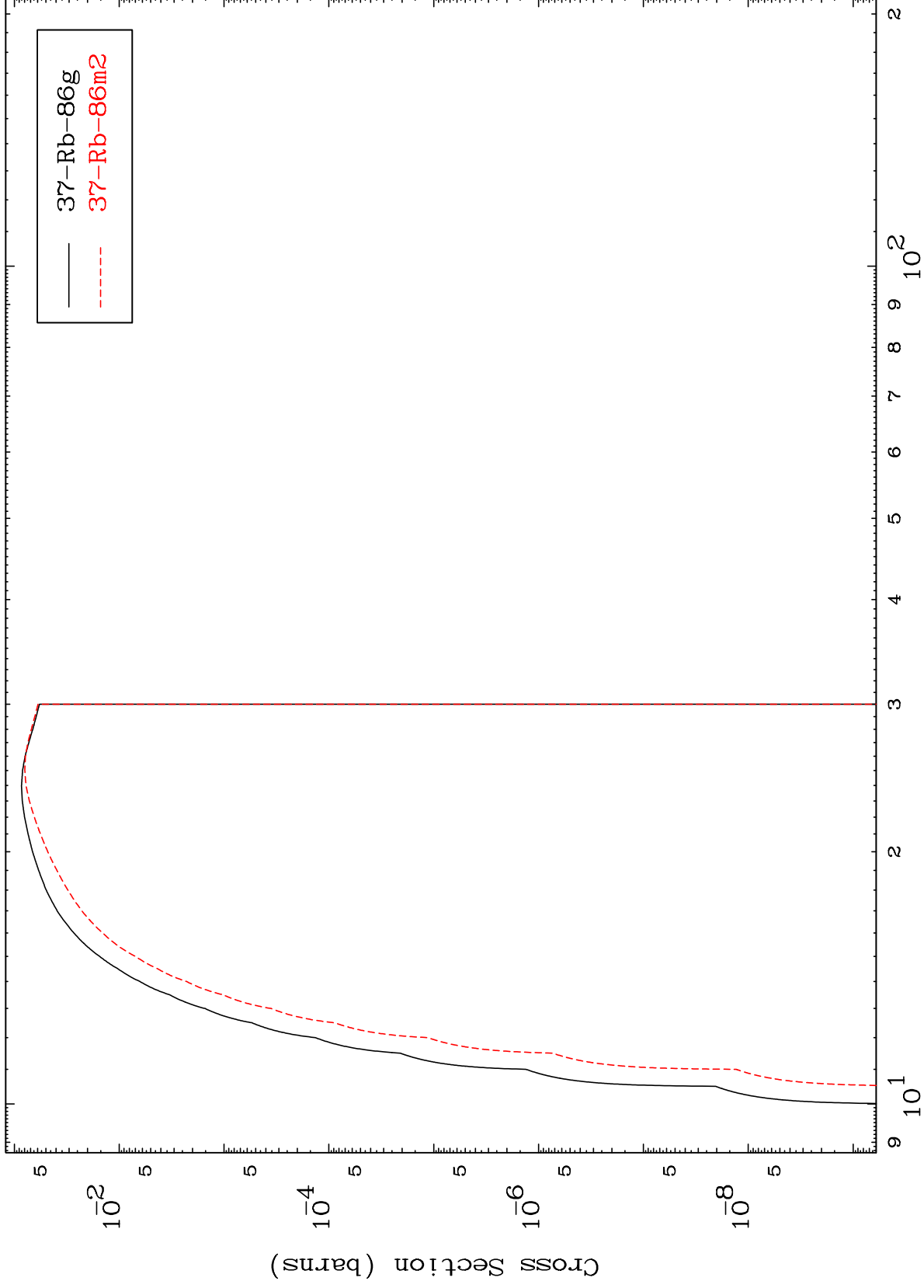


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$(n, n')$  p

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

Radionuclide Production Cross Section



24

Incident Energy (MeV)

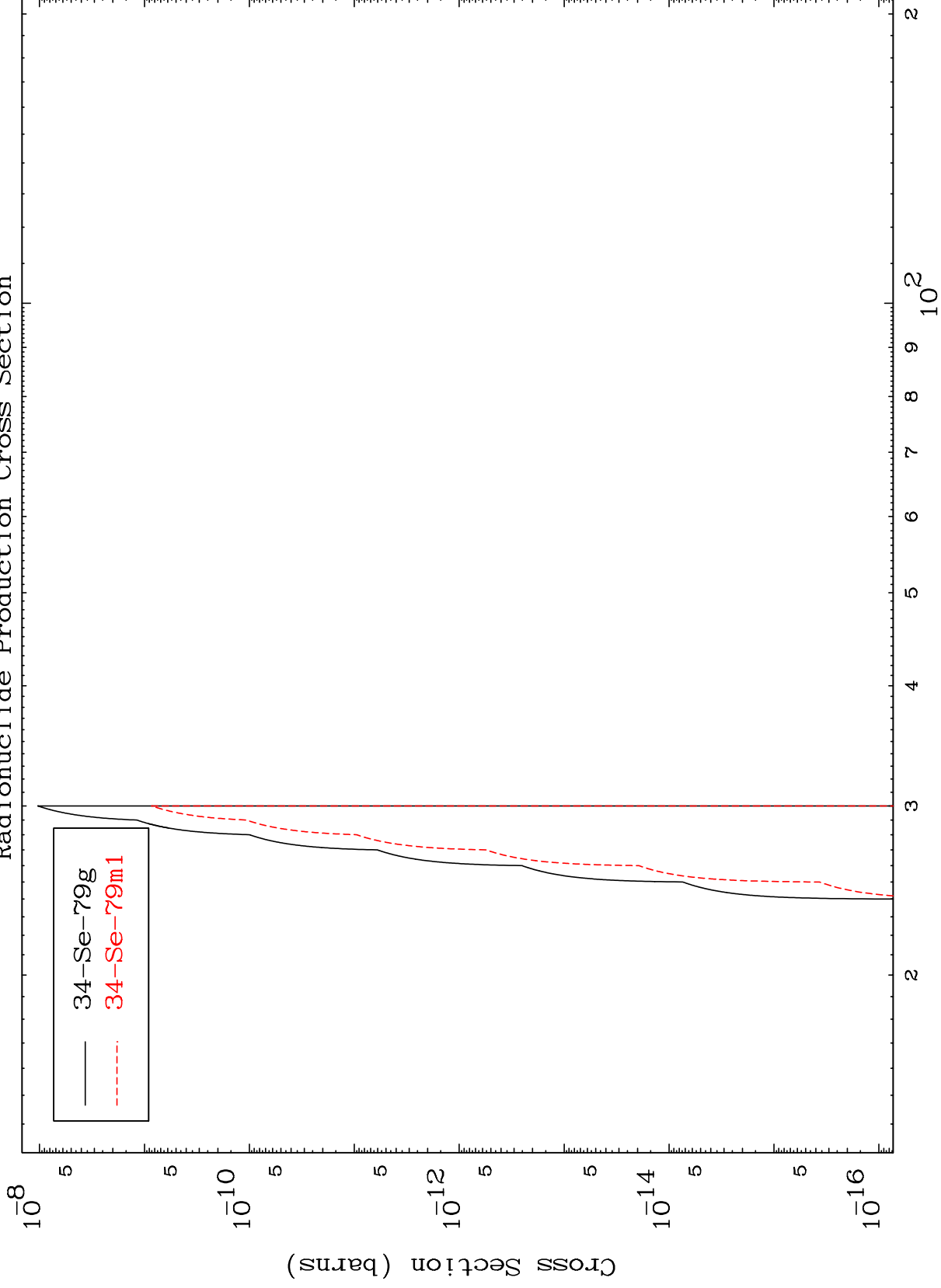
$^{38}\text{Sr}-87\text{m}$

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(n,n') 2α

38-Sr-87m

Radionuclide Production Cross Section



25

Incident Energy (MeV)

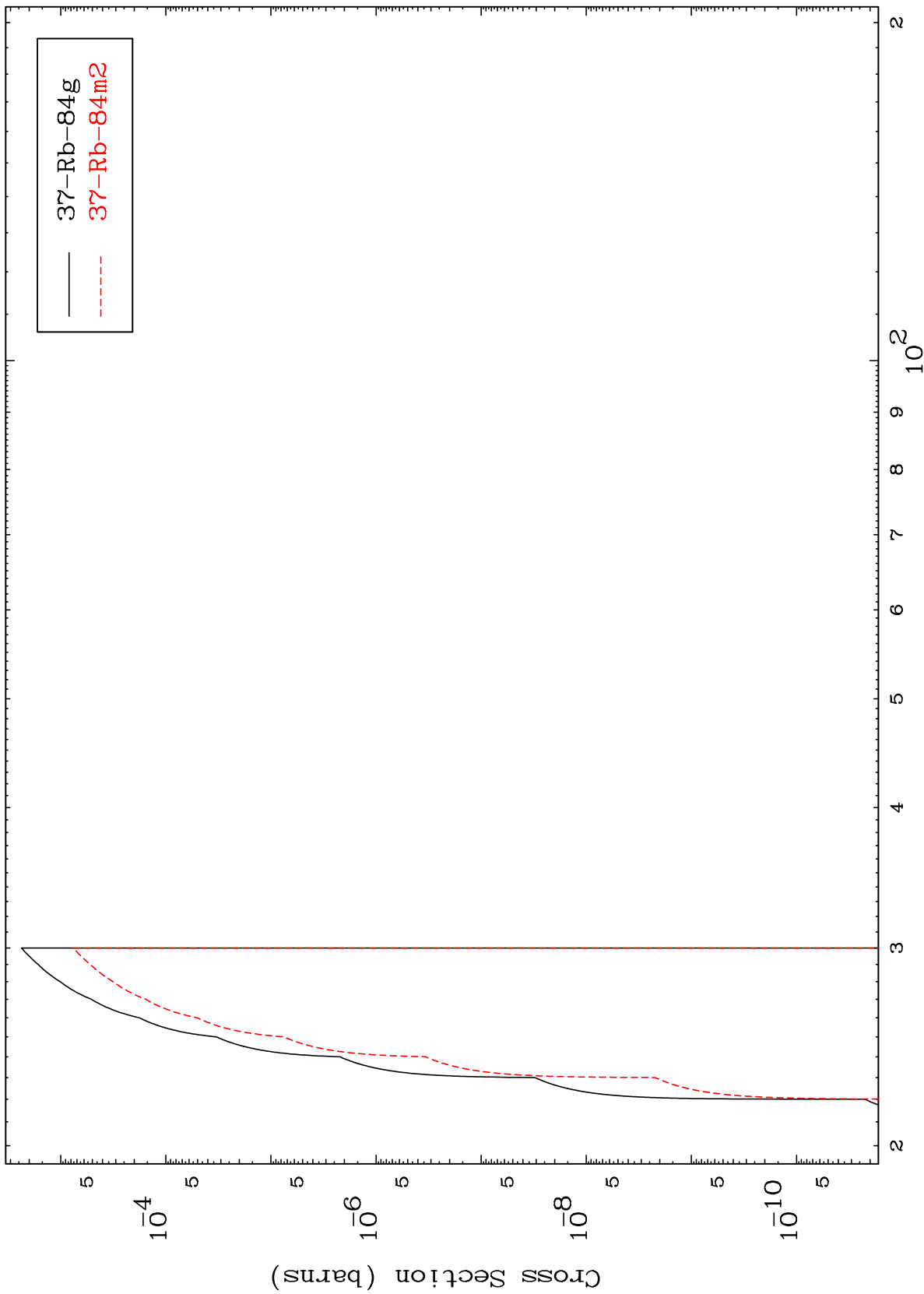
38-Sr-87m

MAT 3835

(n,n') t

<sup>38</sup>Sr-<sup>87</sup>m

Radionuclide Production Cross Section



26

Incident Energy (MeV)

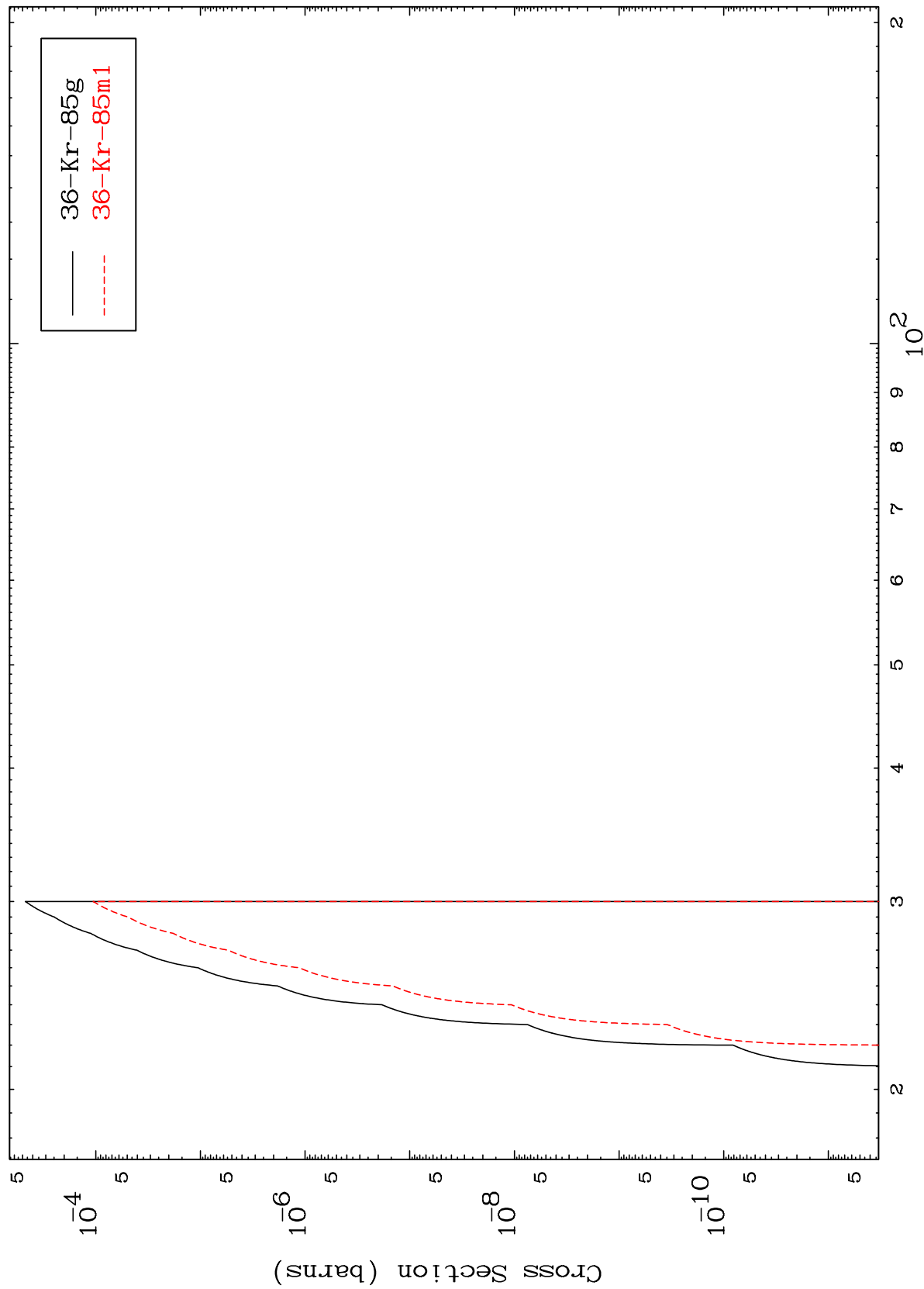
<sup>38</sup>Sr-<sup>87</sup>m

MAT 3835

(n,2n) p

38-Sr-87m

Radionuclide Production Cross Section



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

27

Incident Energy (MeV)

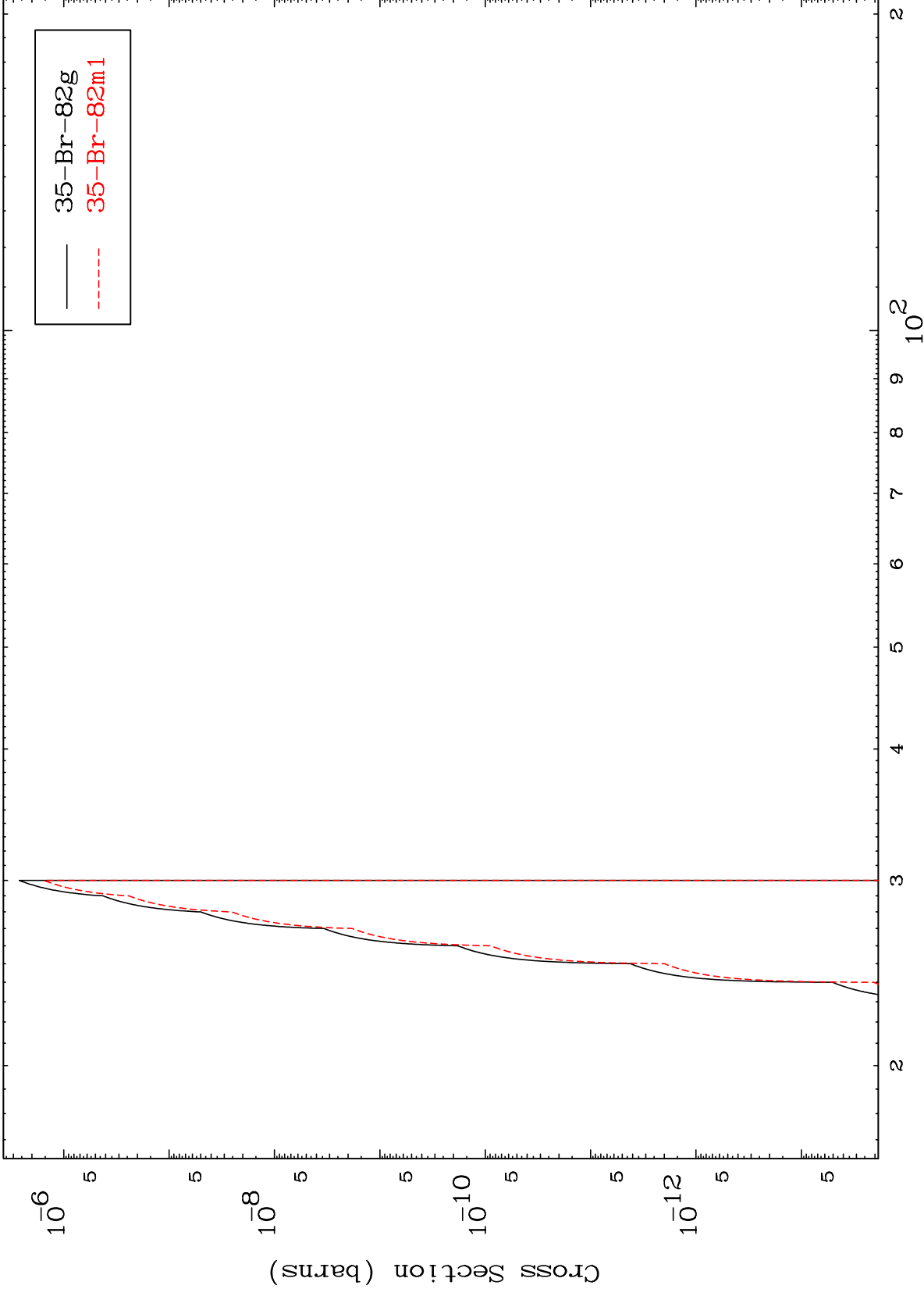
38-Sr-87m

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(n,n') p  $\alpha$

38-Sr-87m

Radionuclide Production Cross Section



28

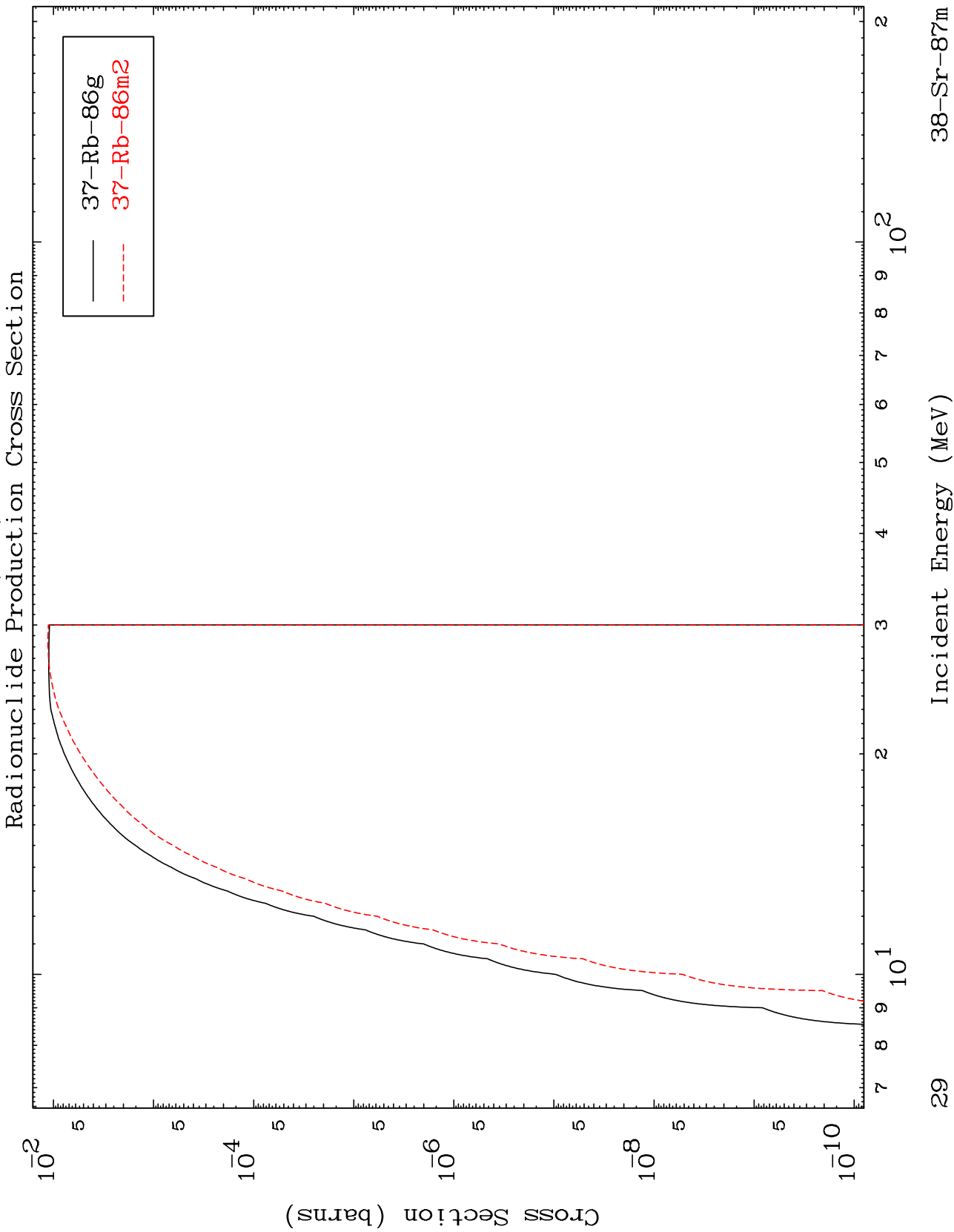
Incident Energy (MeV)

38-Sr-87m

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(n,d)

38-Sr-87m



29

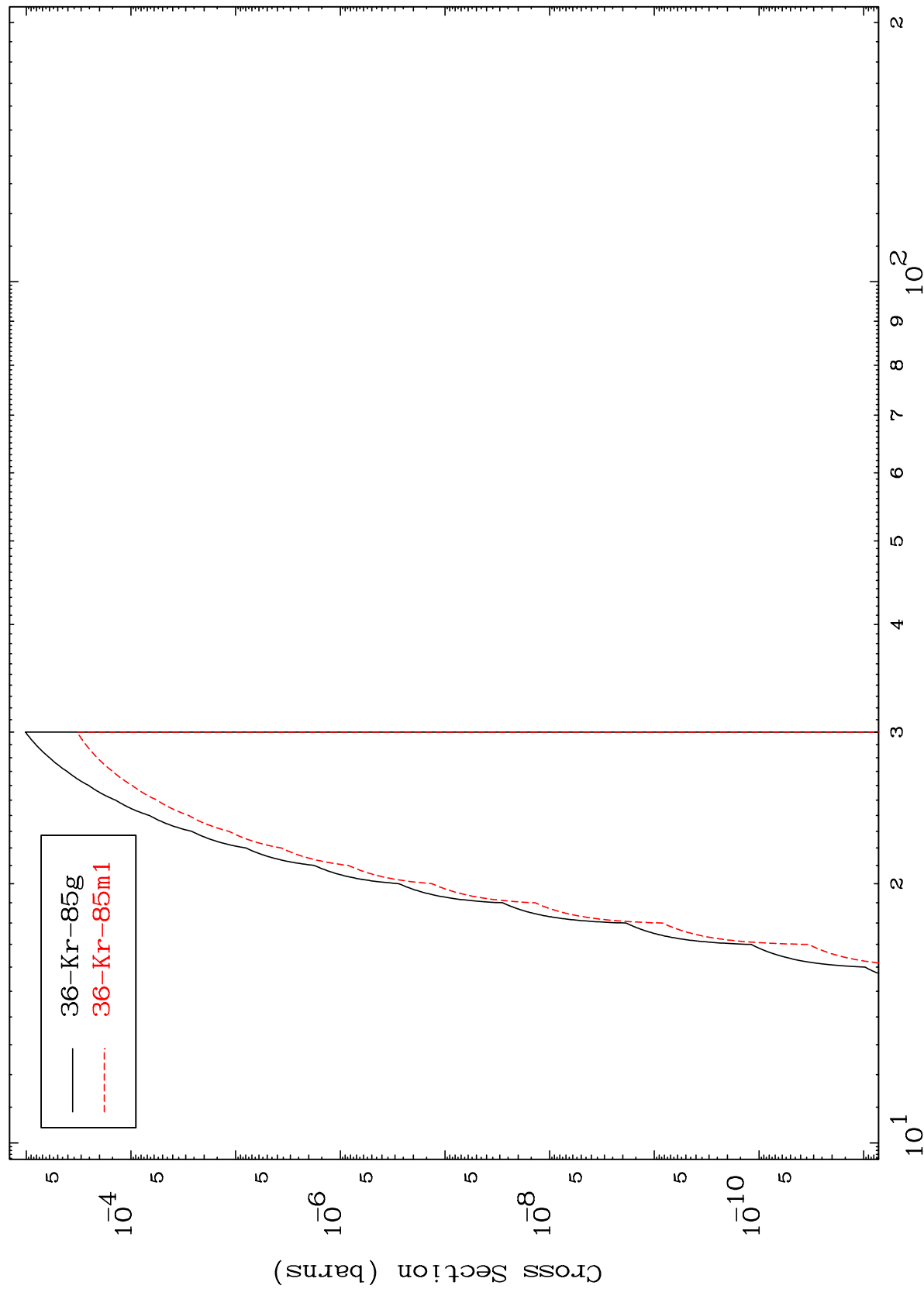
Incident Energy (MeV)

38-Sr-87m

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38-Sr-87m

(n,He-3)  
Radionuclide Production Cross Section



38-Sr-87m

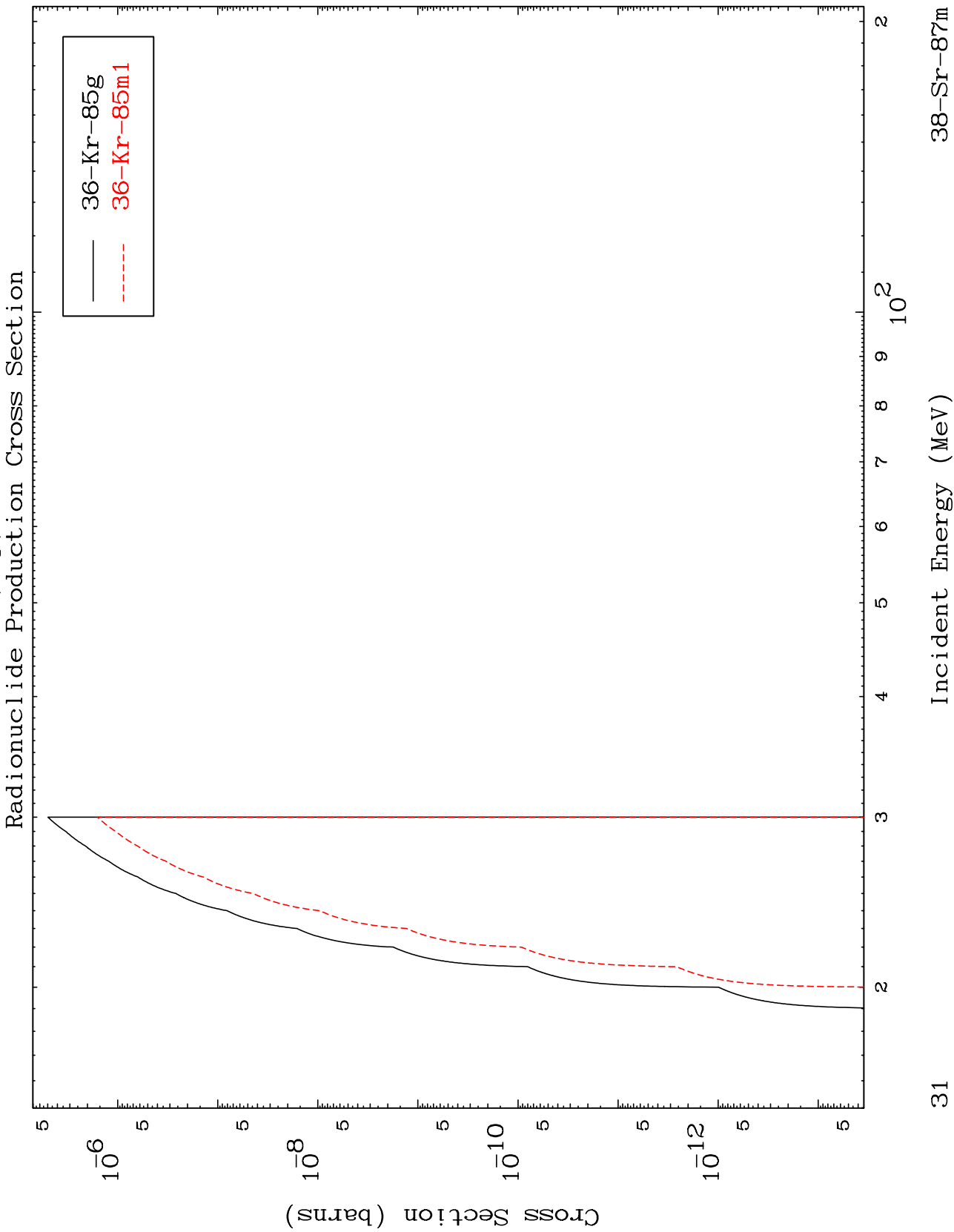
Incident Energy (MeV)

30

MAT 3835

(n,p) d

38-Sr-87m



31

Incident Energy (MeV)

38-Sr-87m

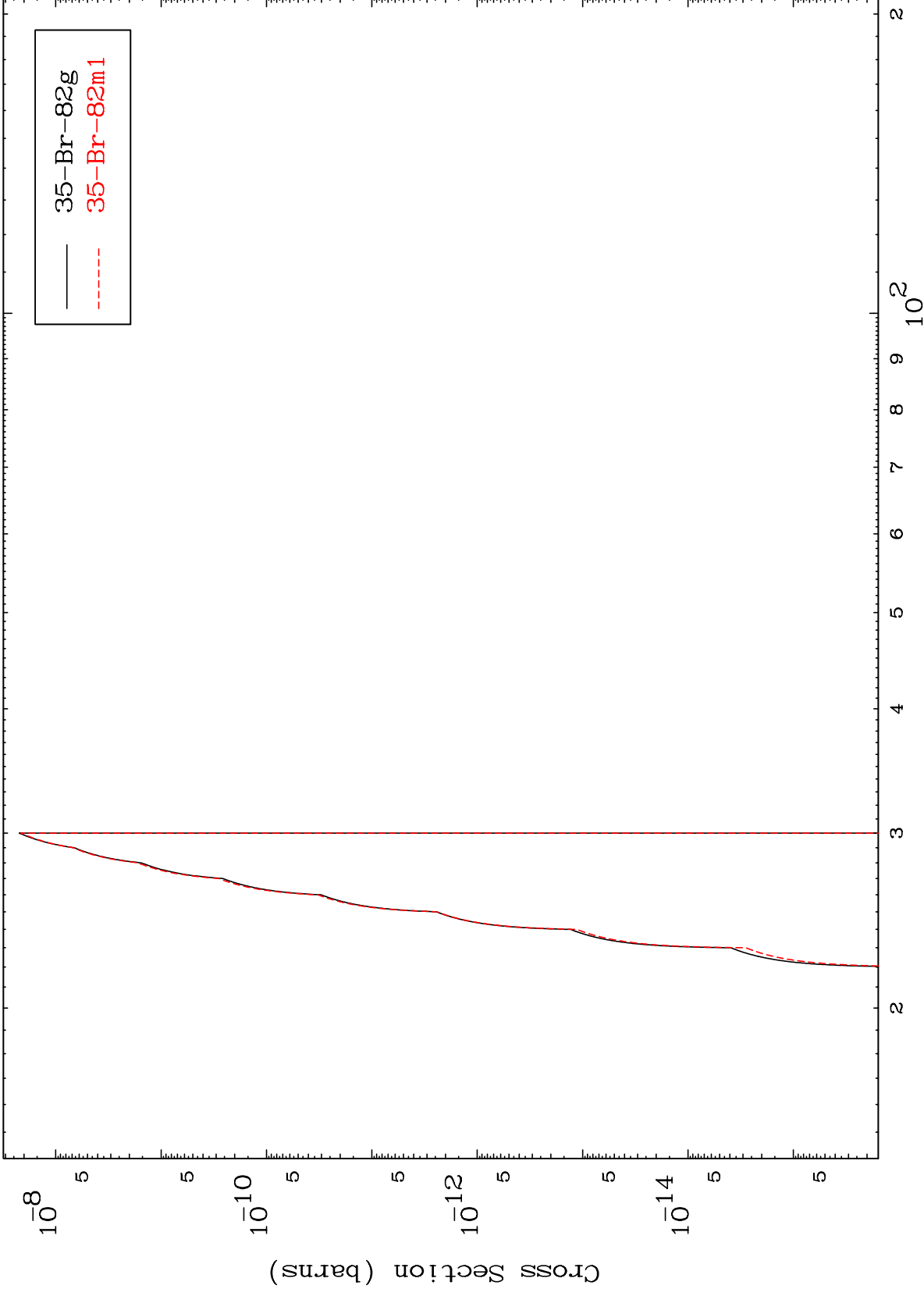


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(n,d)  $\alpha$

38-Sr-87m

Radionuclide Production Cross Section



32

Incident Energy (MeV)

38-Sr-87m