

Program EVALPLOT  
(Version 2021-1)

by

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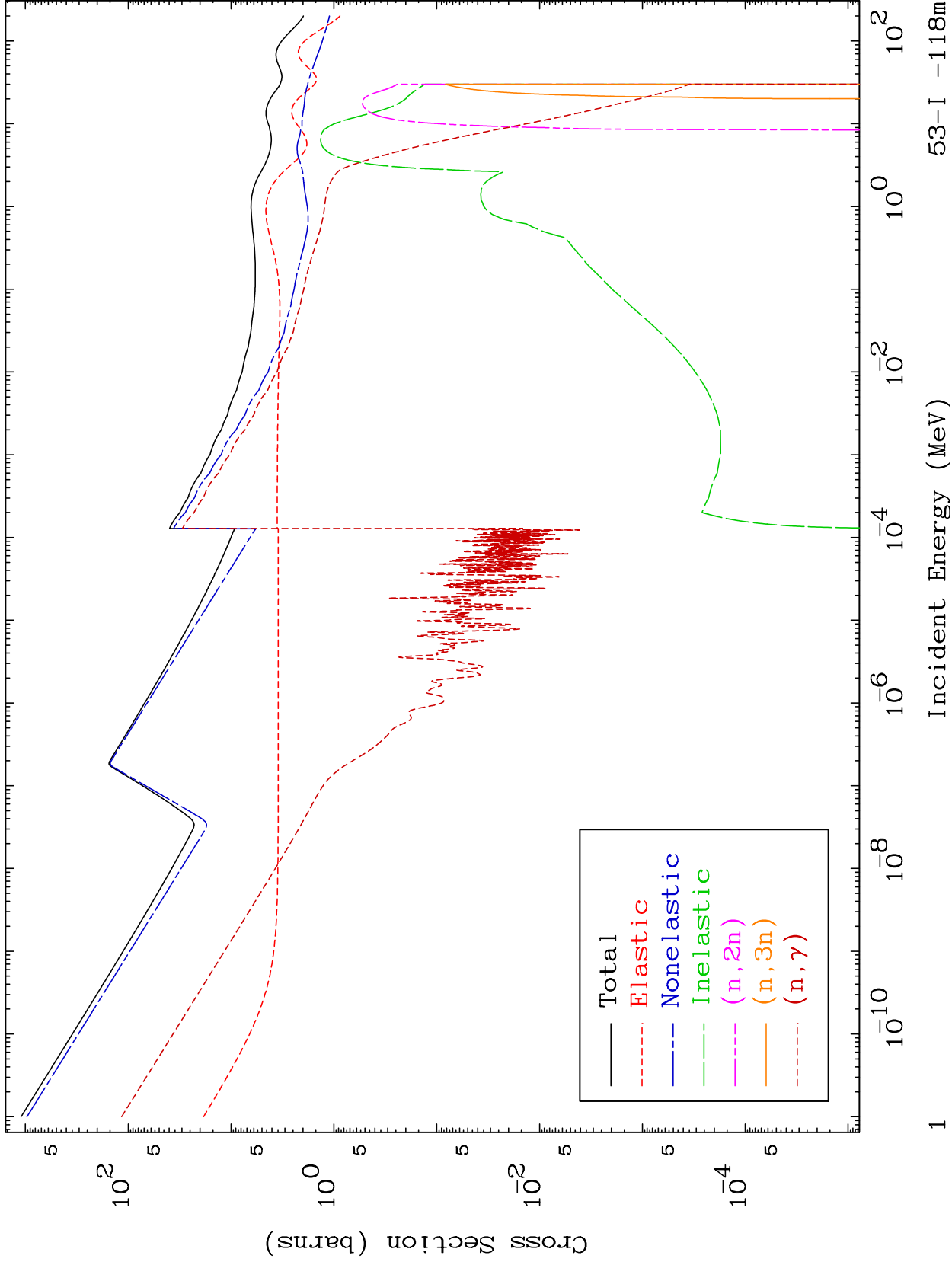
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5299

Neutron Major  
293 Kelvin Cross Sections

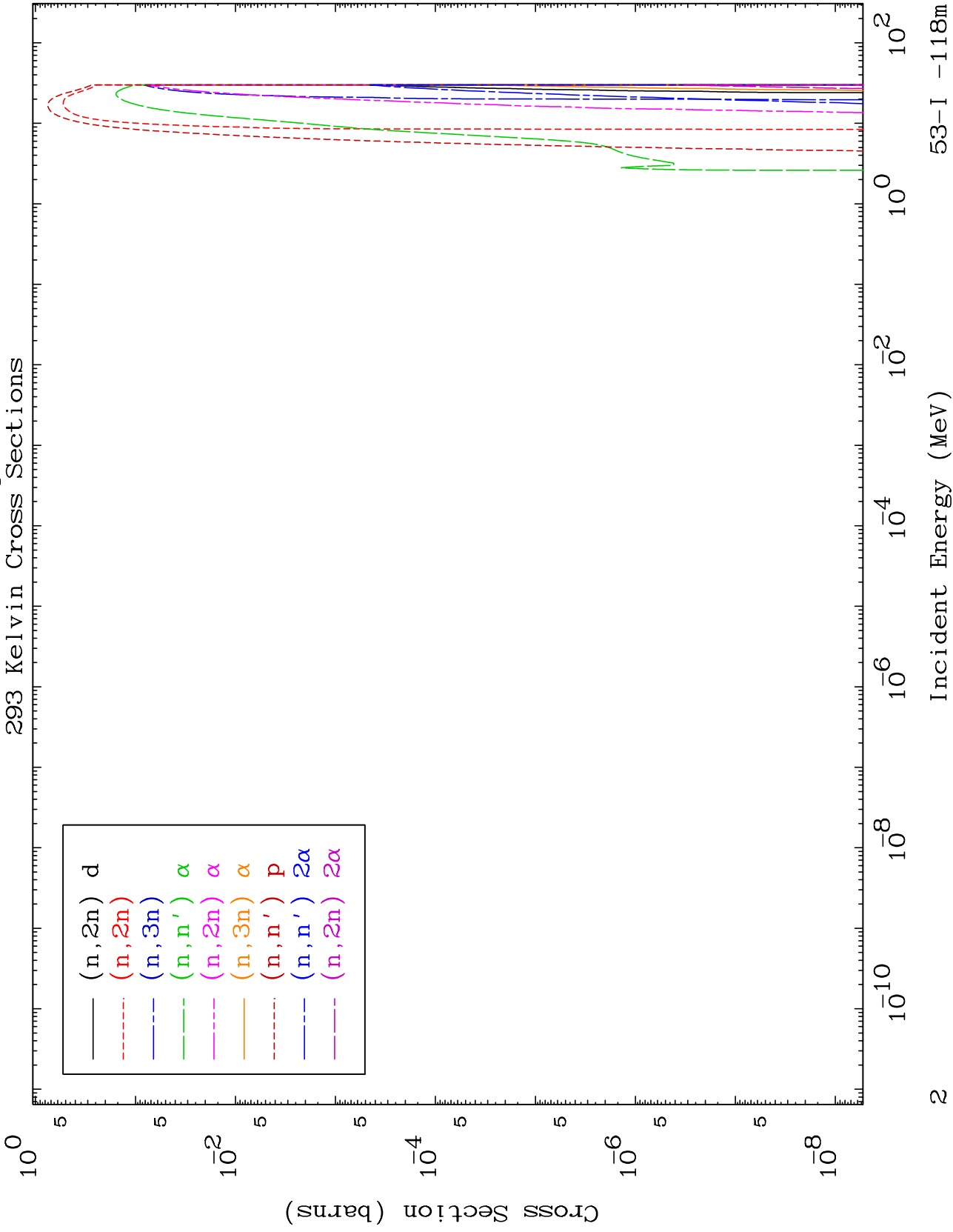
53-I -118m



MAT 5299

Neutron Absorption  
293 Kelvin Cross Sections

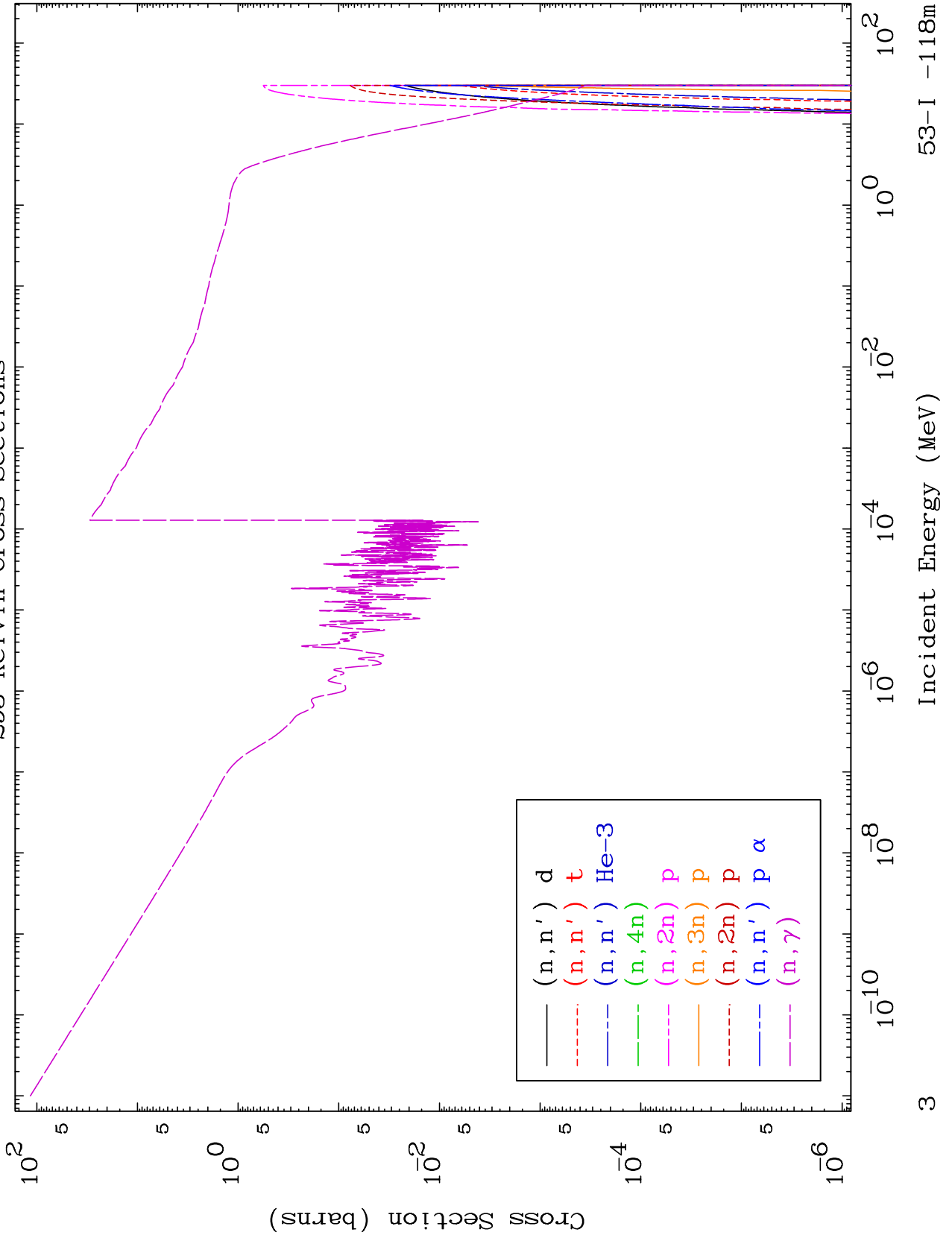
53-I -118m



MAT 5299

Neutron Absorption  
293 Kelvin Cross Sections

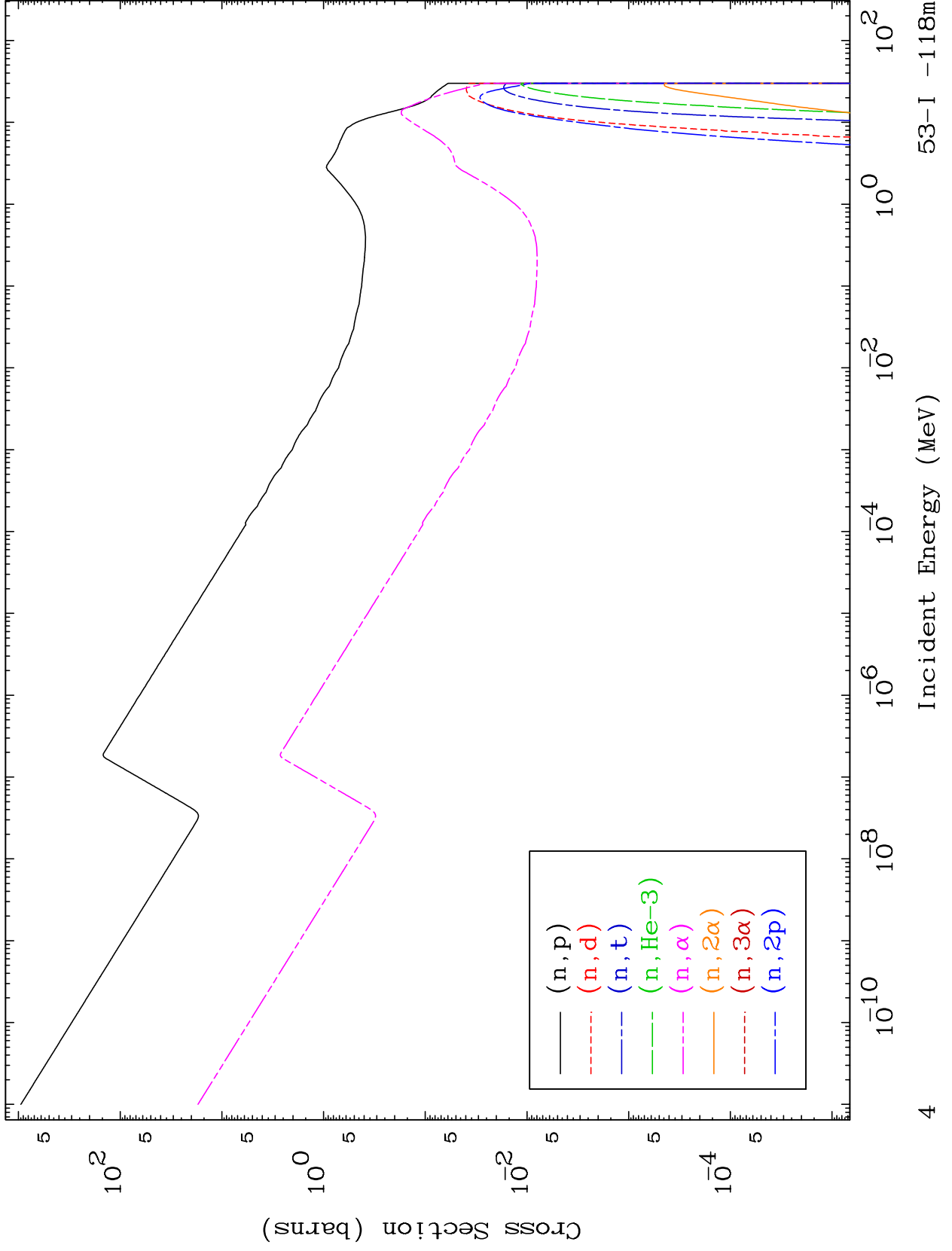
53-I -118m



MAT 5299

Neutron Absorption  
293 Kelvin Cross Sections

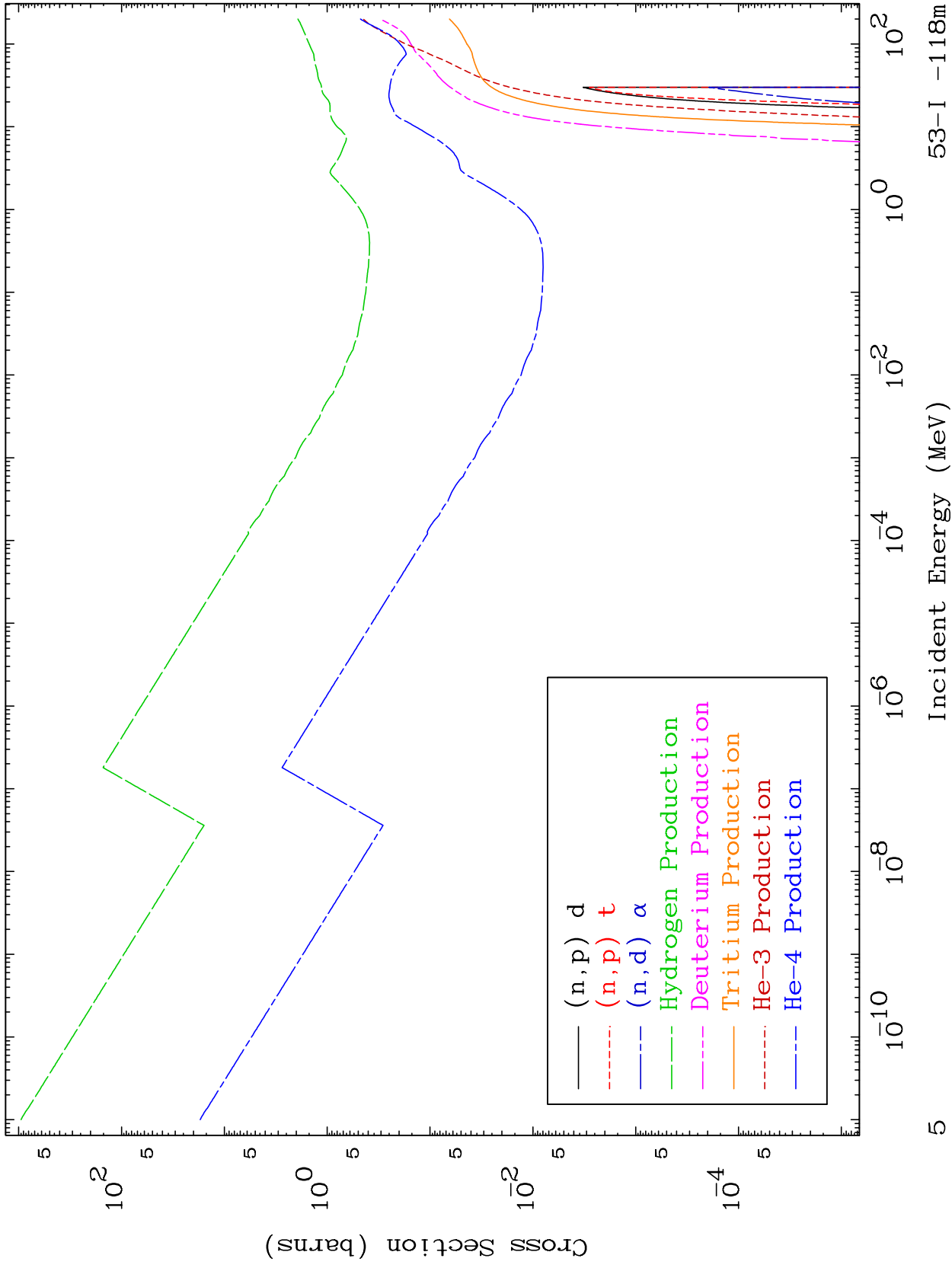
53-I -118m



MAT 5299

Neutron Absorption  
293 Kelvin Cross Sections

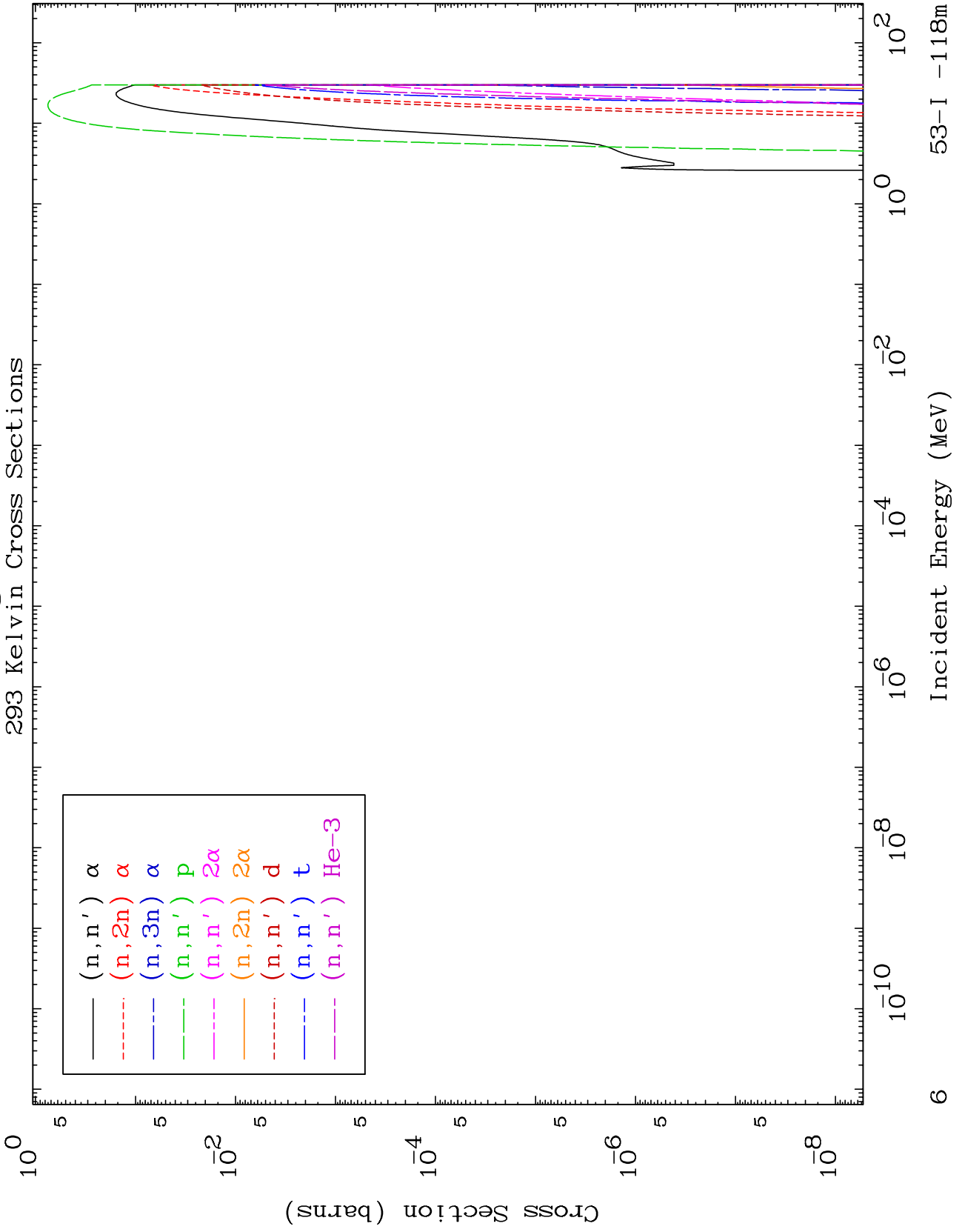
53-I -118m



MAT 5299

Charged Particle  
293 Kelvin Cross Sections

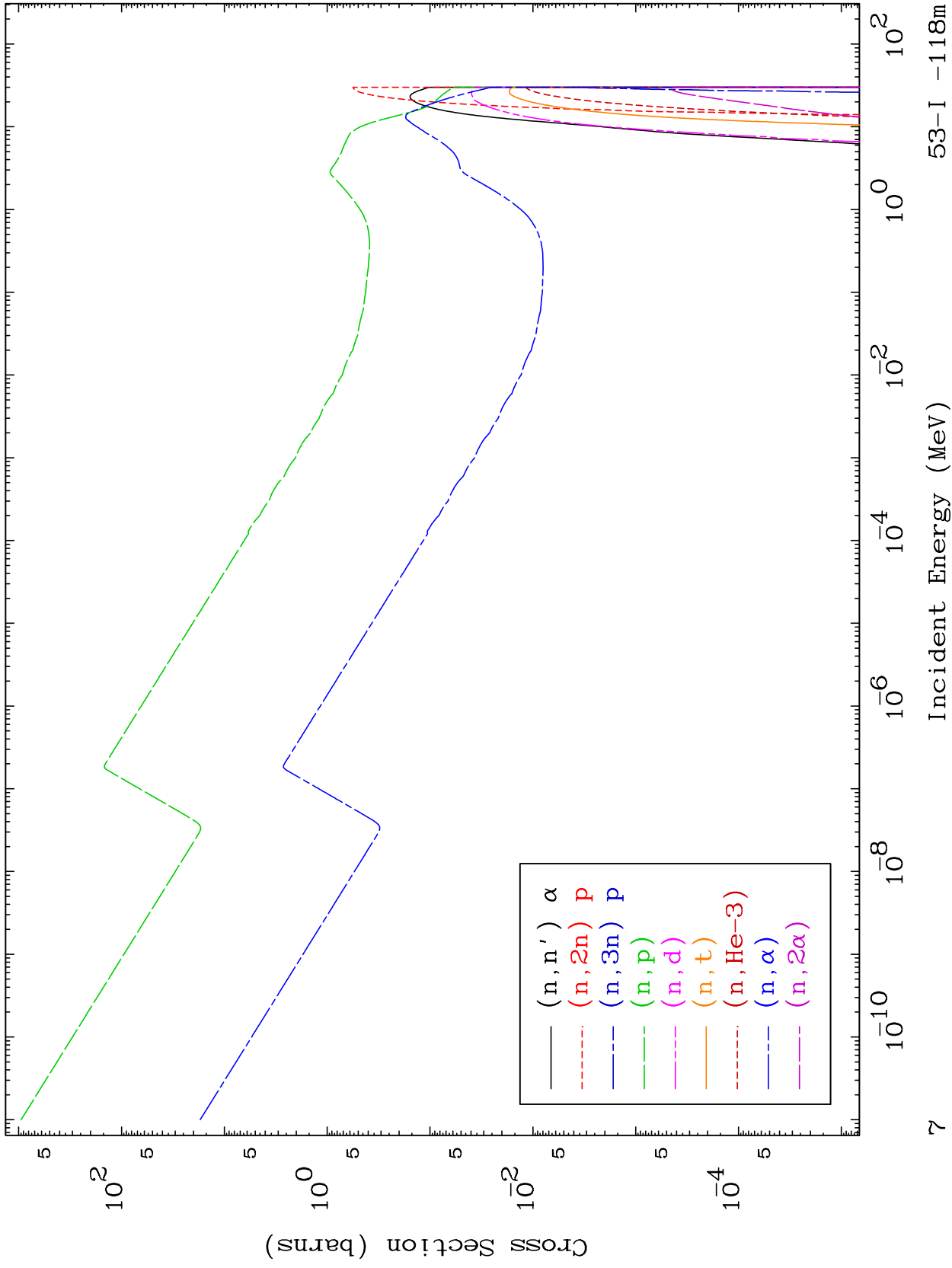
53-I -118m



MAT 5299

Charged Particle  
293 Kelvin Cross Sections

53-I -118m

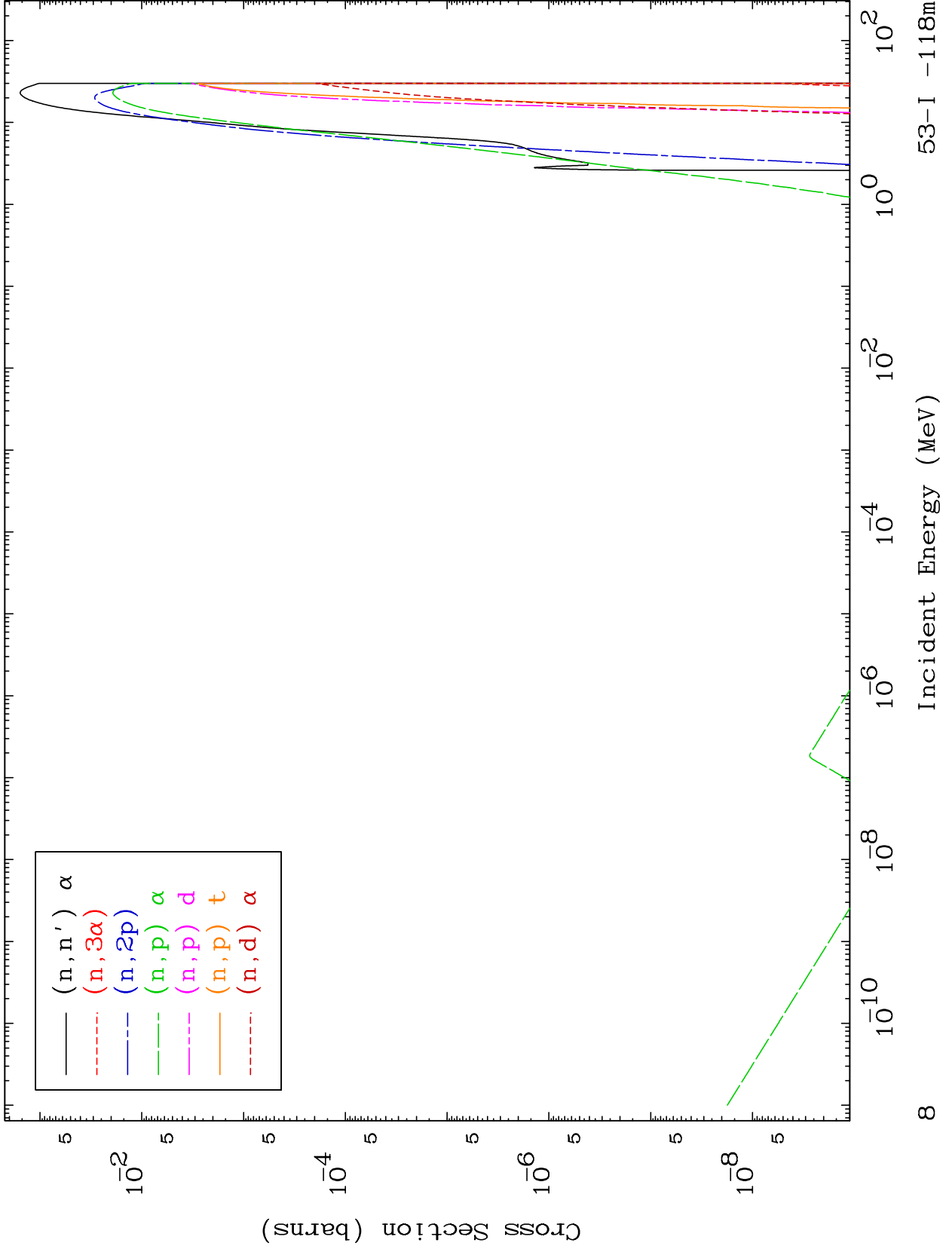


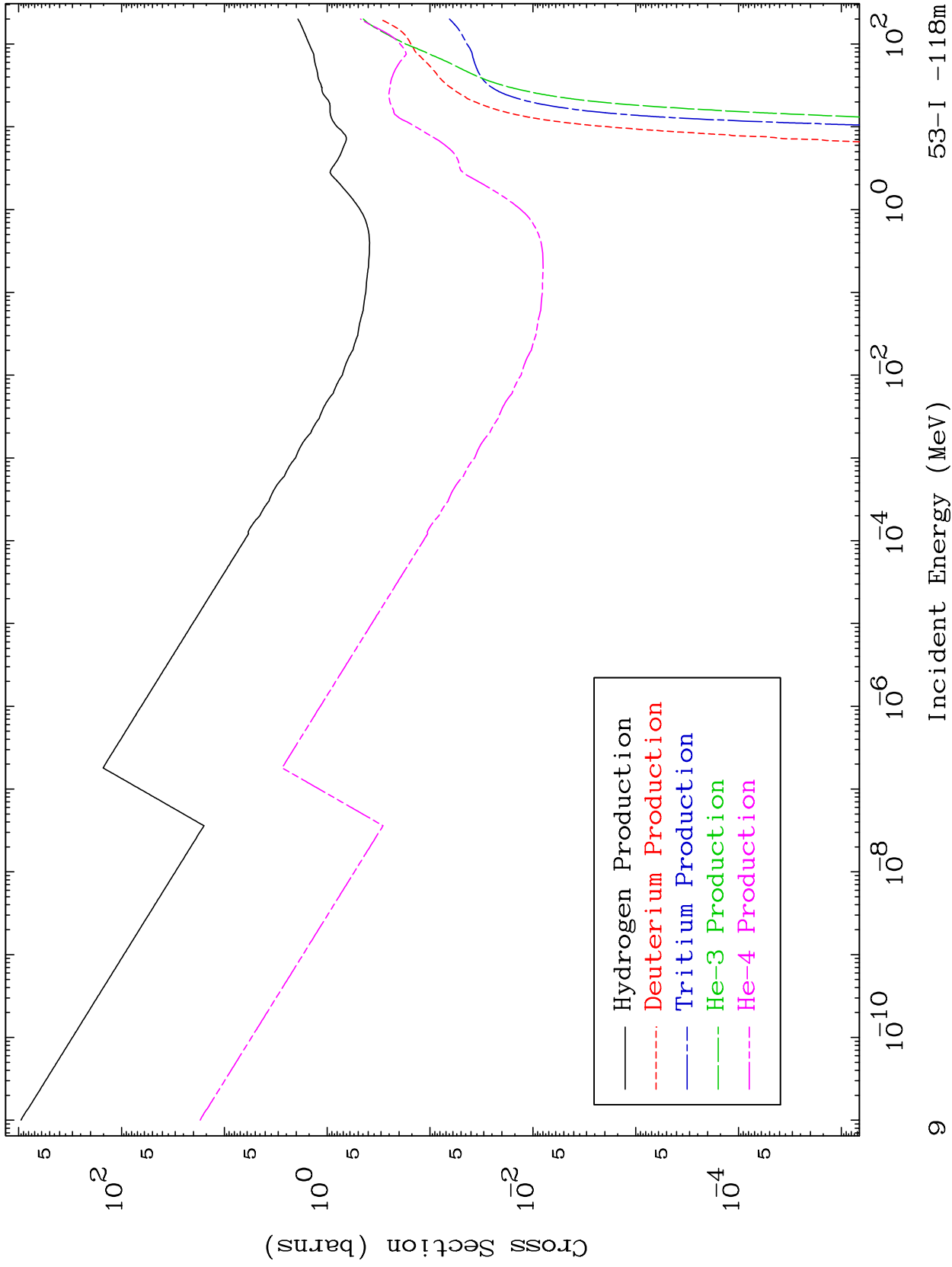


MAT 5299

Charged Particle  
293 Kelvin Cross Sections

53-I -118m

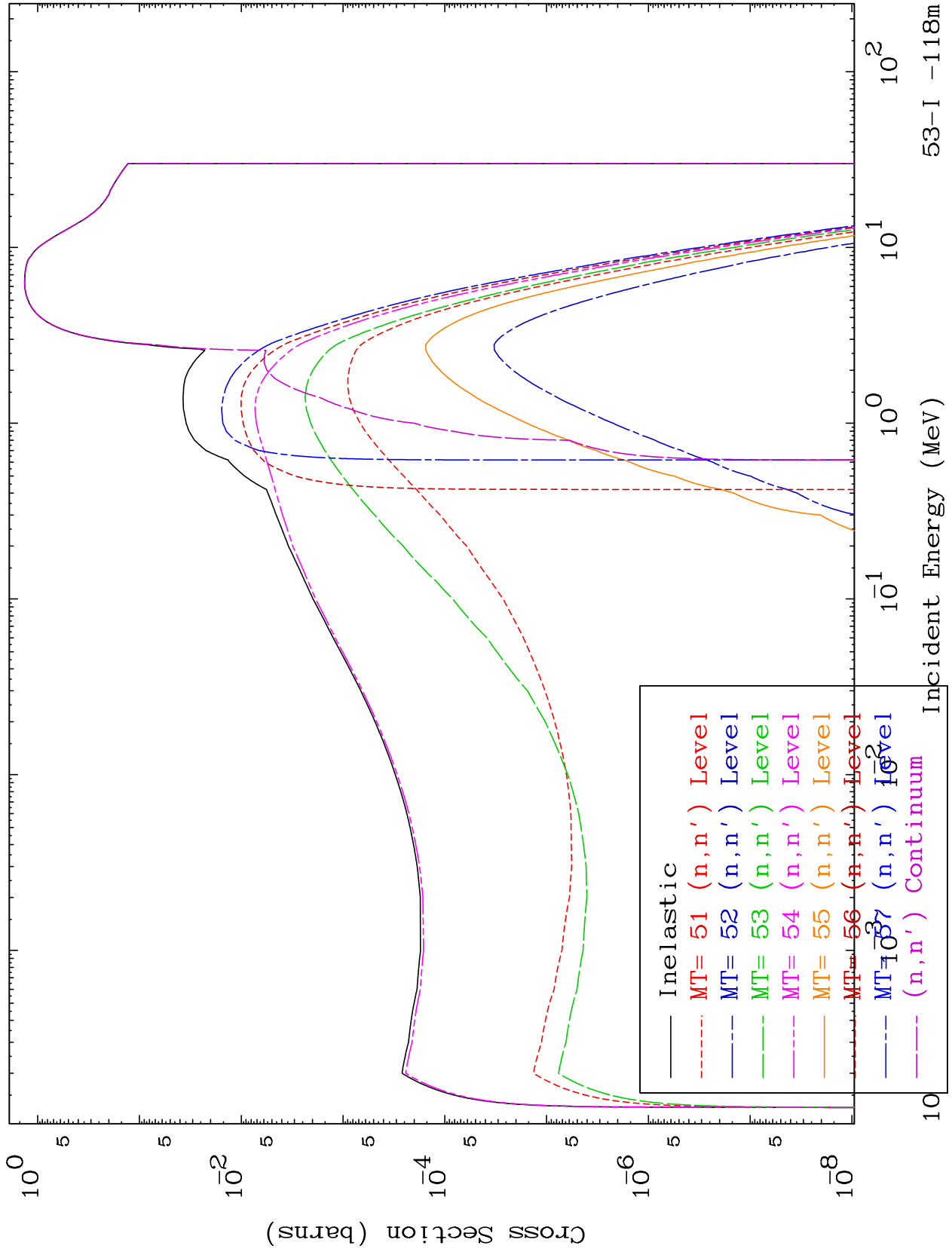




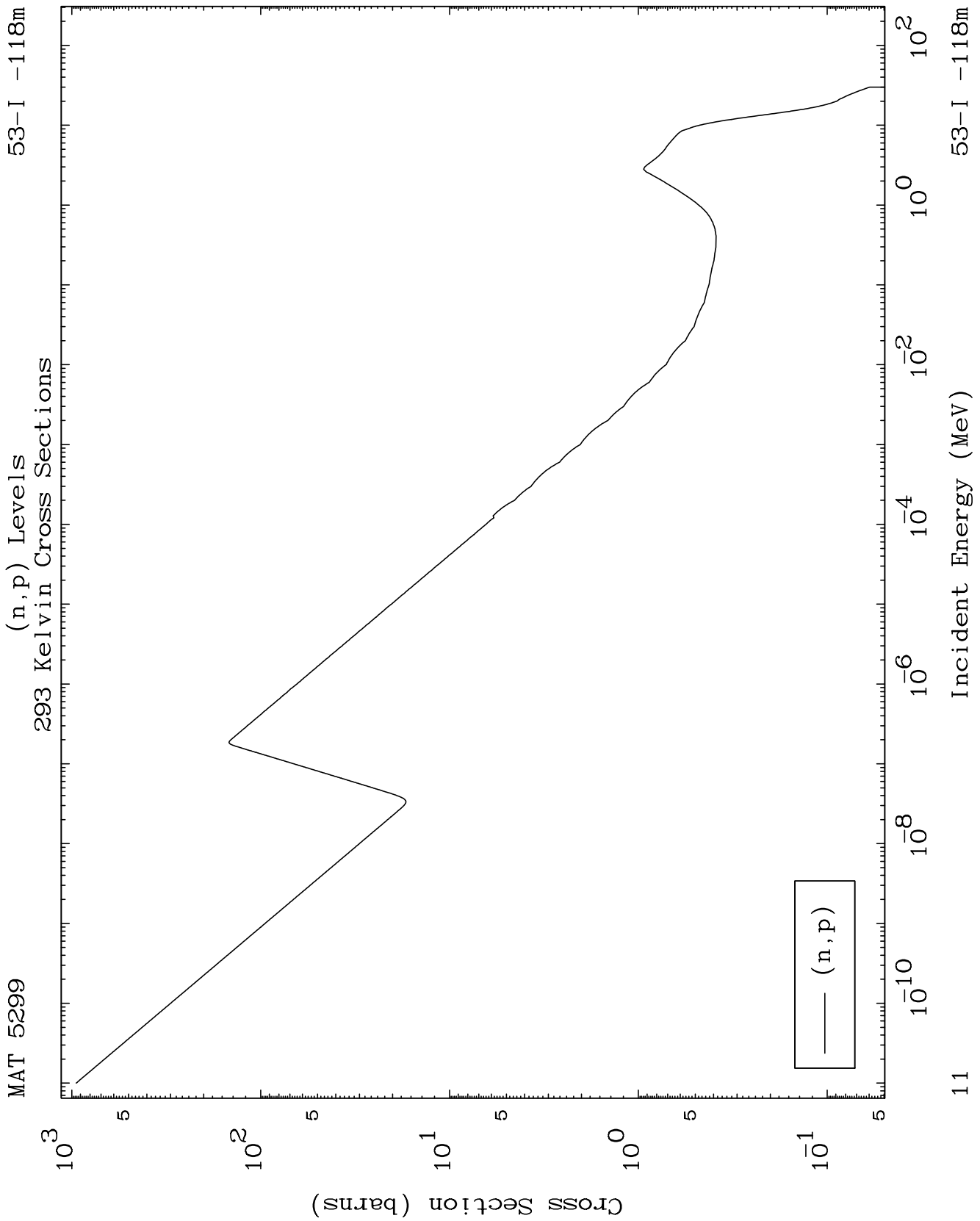
MAT 5299

(n,n') Levels  
293 Kelvin Cross Sections

53-I -118m



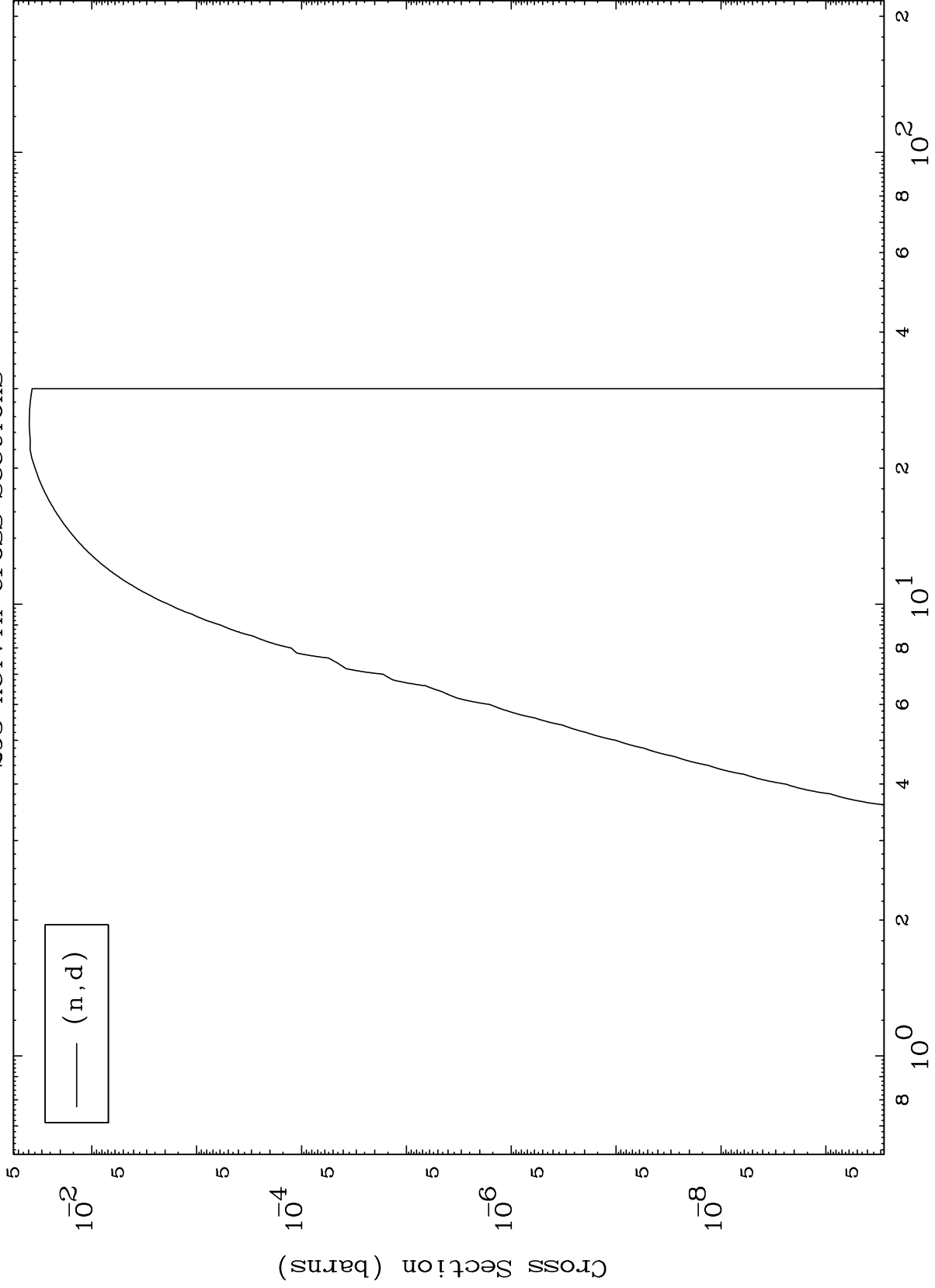
53-I -118m



MAT 5299

(n,d) Levels  
293 Kelvin Cross Sections

53-I -118m



12

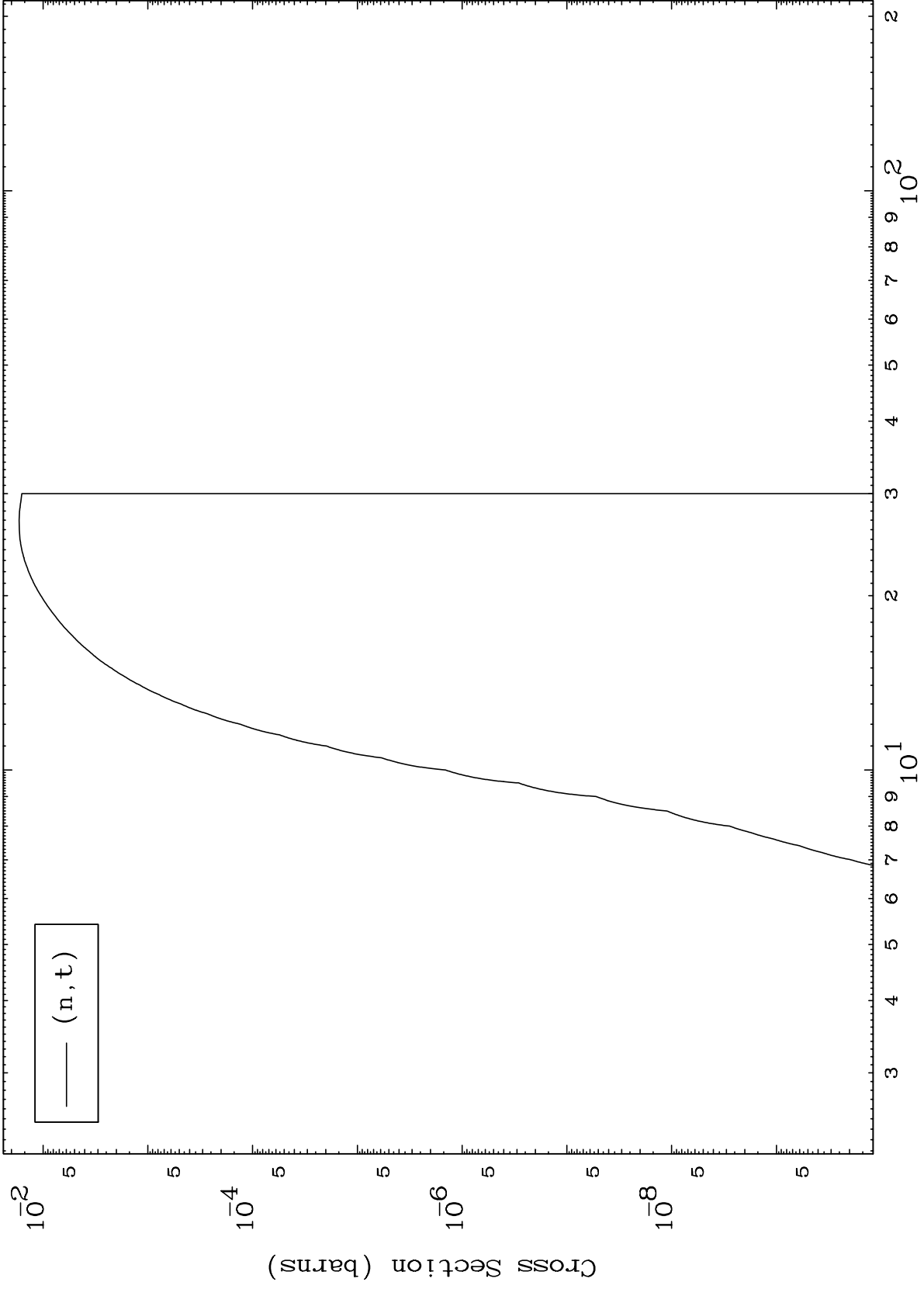
Incident Energy (MeV)

53-I -118m

MAT 5299

(n,t) Levels  
293 Kelvin Cross Sections

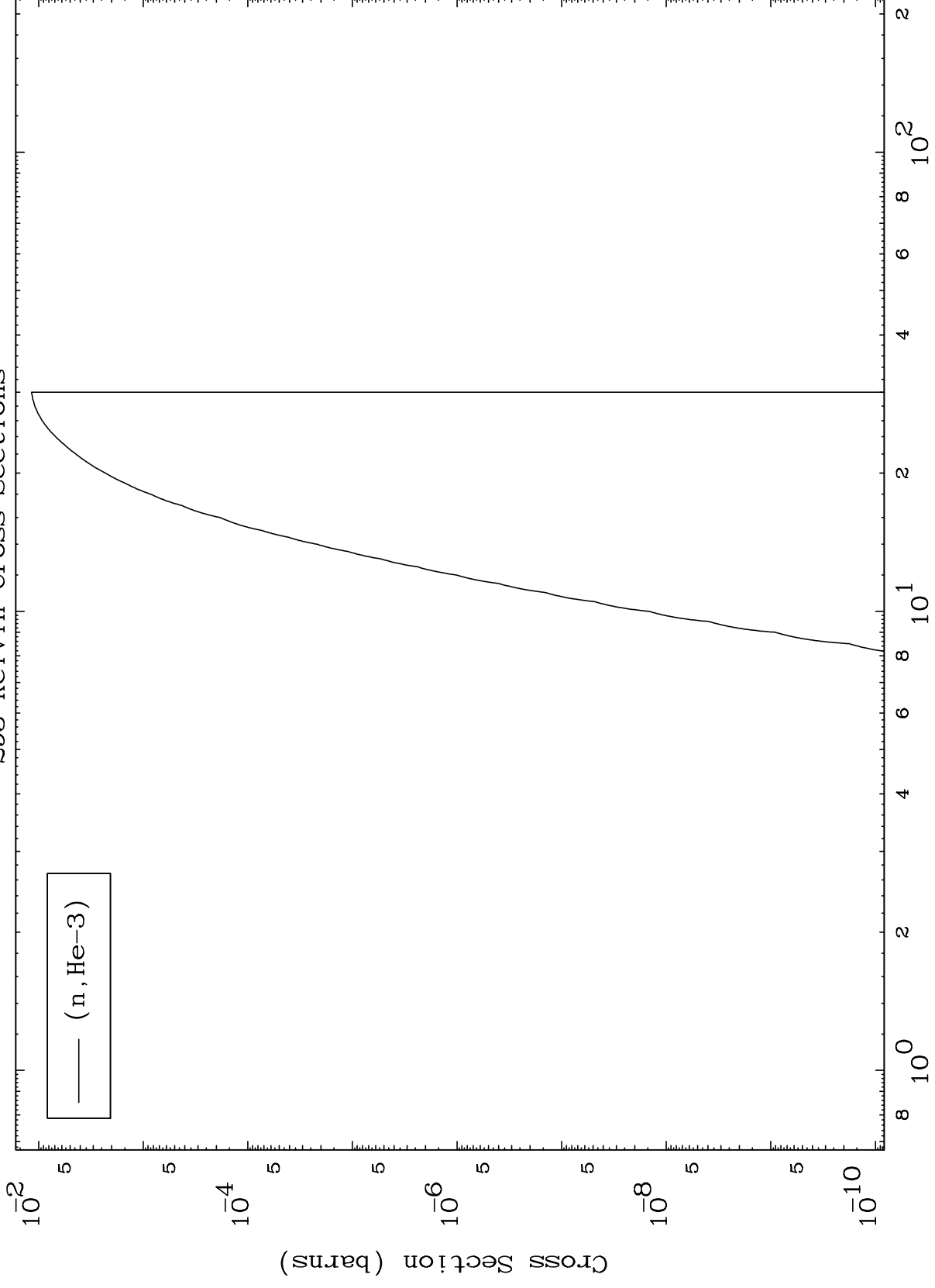
53-I -118m



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(n,He3) Levels  
293 Kelvin Cross Sections

53-I -118m



14

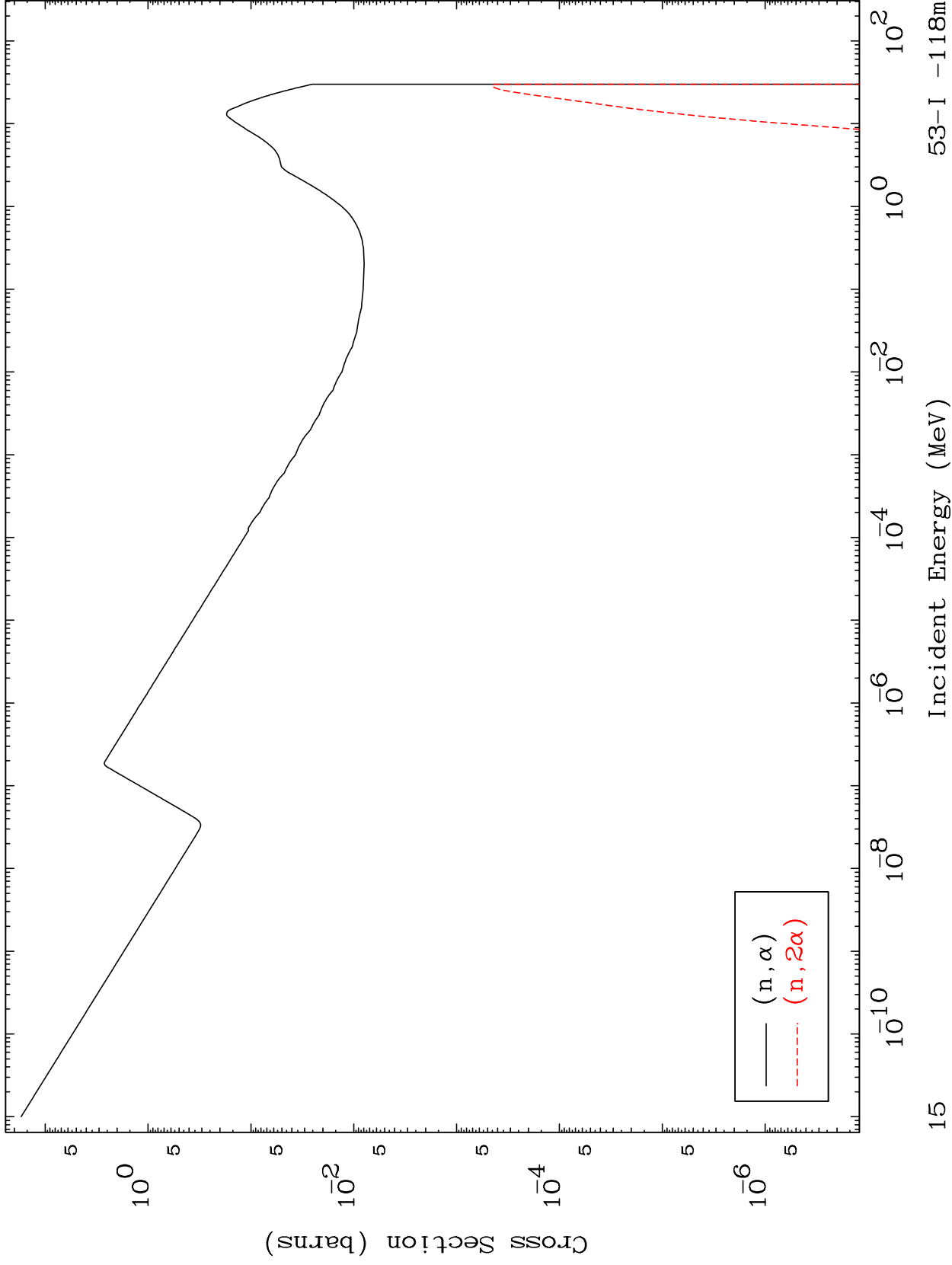
Incident Energy (MeV)

53-I -118m

MAT 5299

(n,α) Levels  
293 Kelvin Cross Sections

53-I -118m



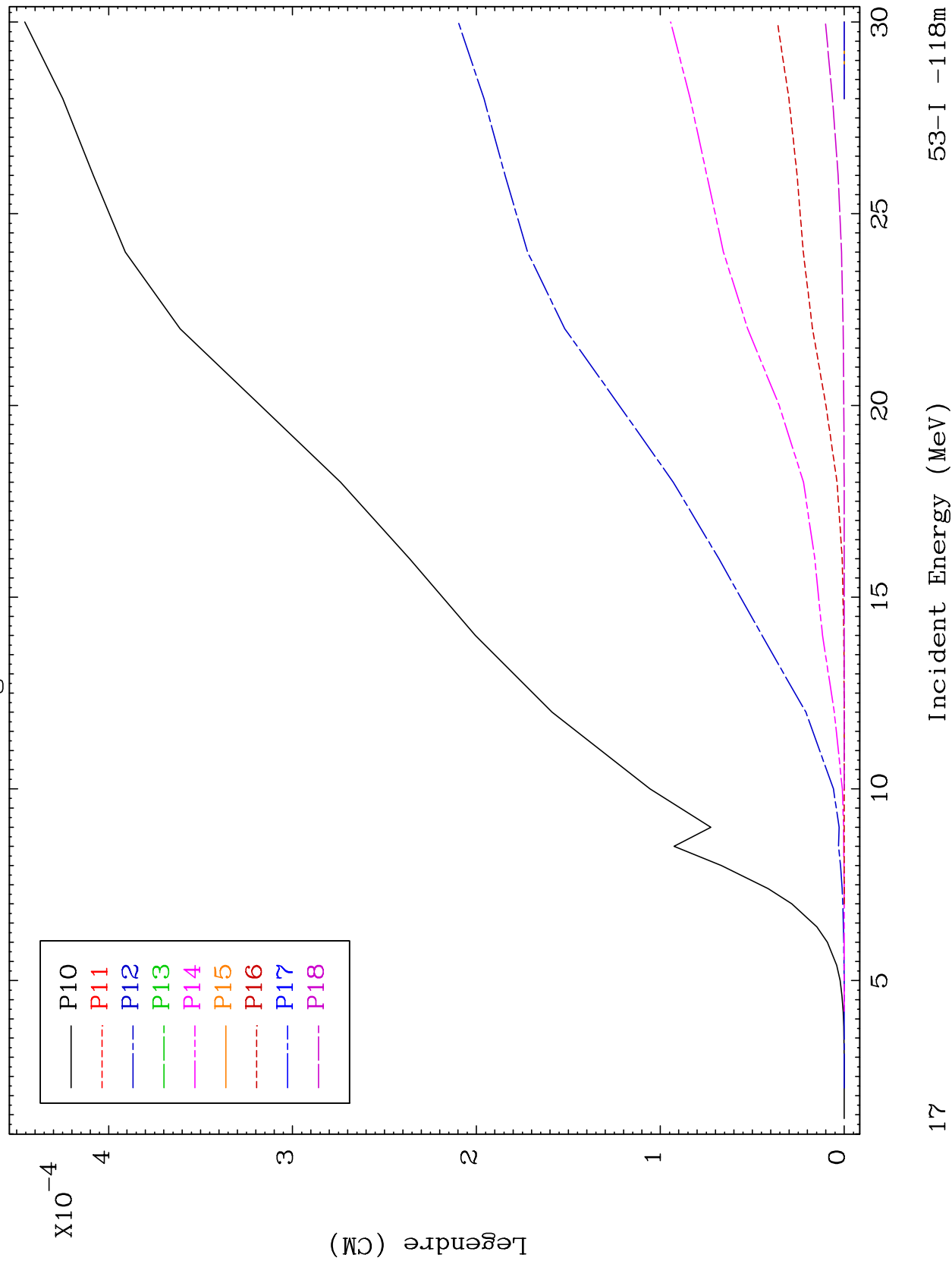




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### Elastic Legendre Coefficients

53-I -118m



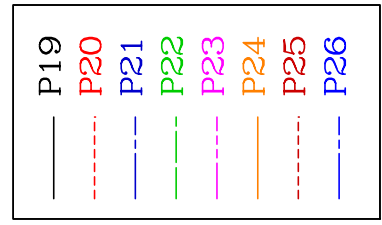
17

53-I -118m

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Elastic  
Legendre Coefficients

53-I -118m



$\times 10^{-7}$

Legendre (CM)

5 4 3 2 1 0

15

20

25

30

18

Incident Energy (MeV)

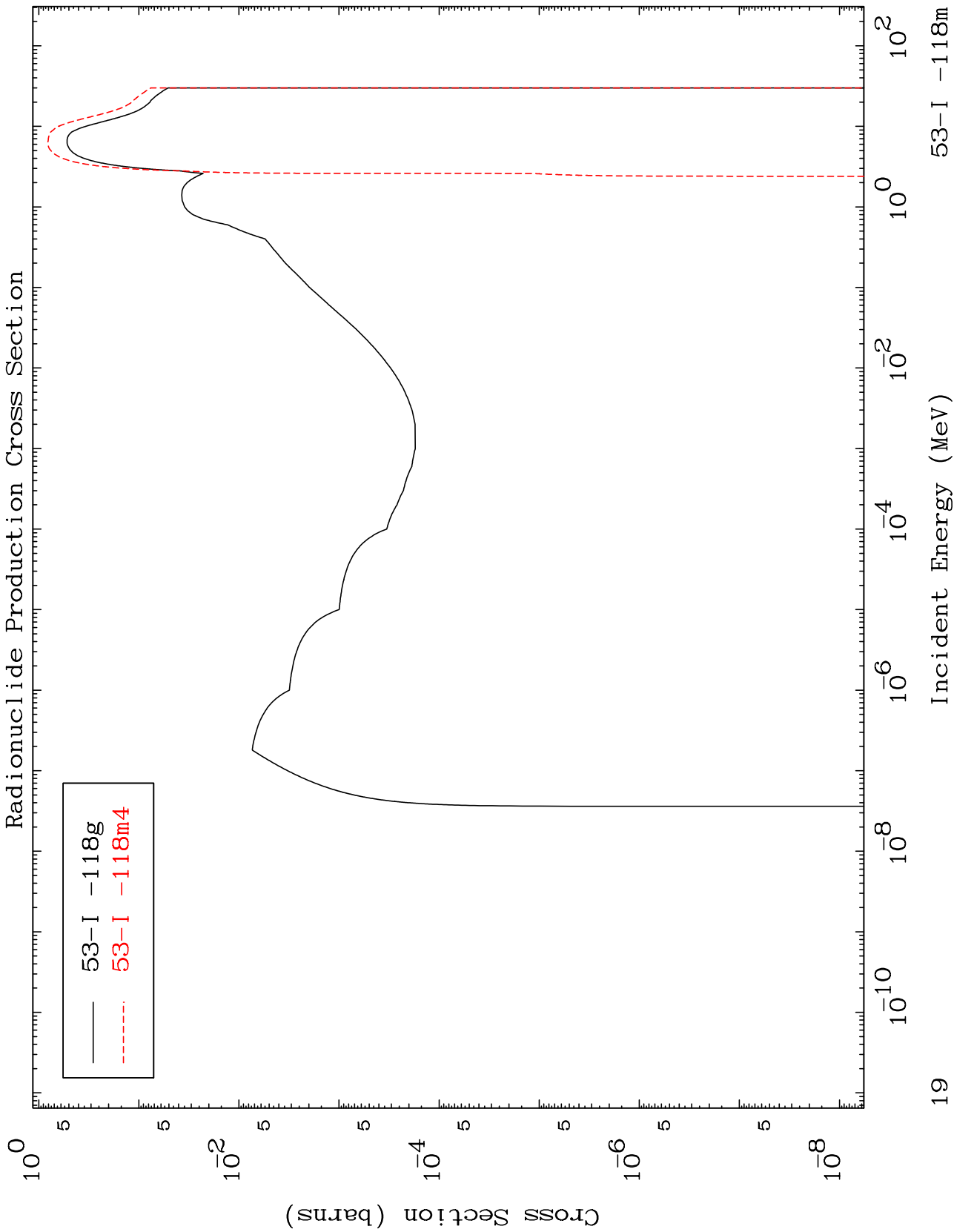
53-I -118m



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53-I -118m

Inelastic  
Radionuclide Production Cross Section

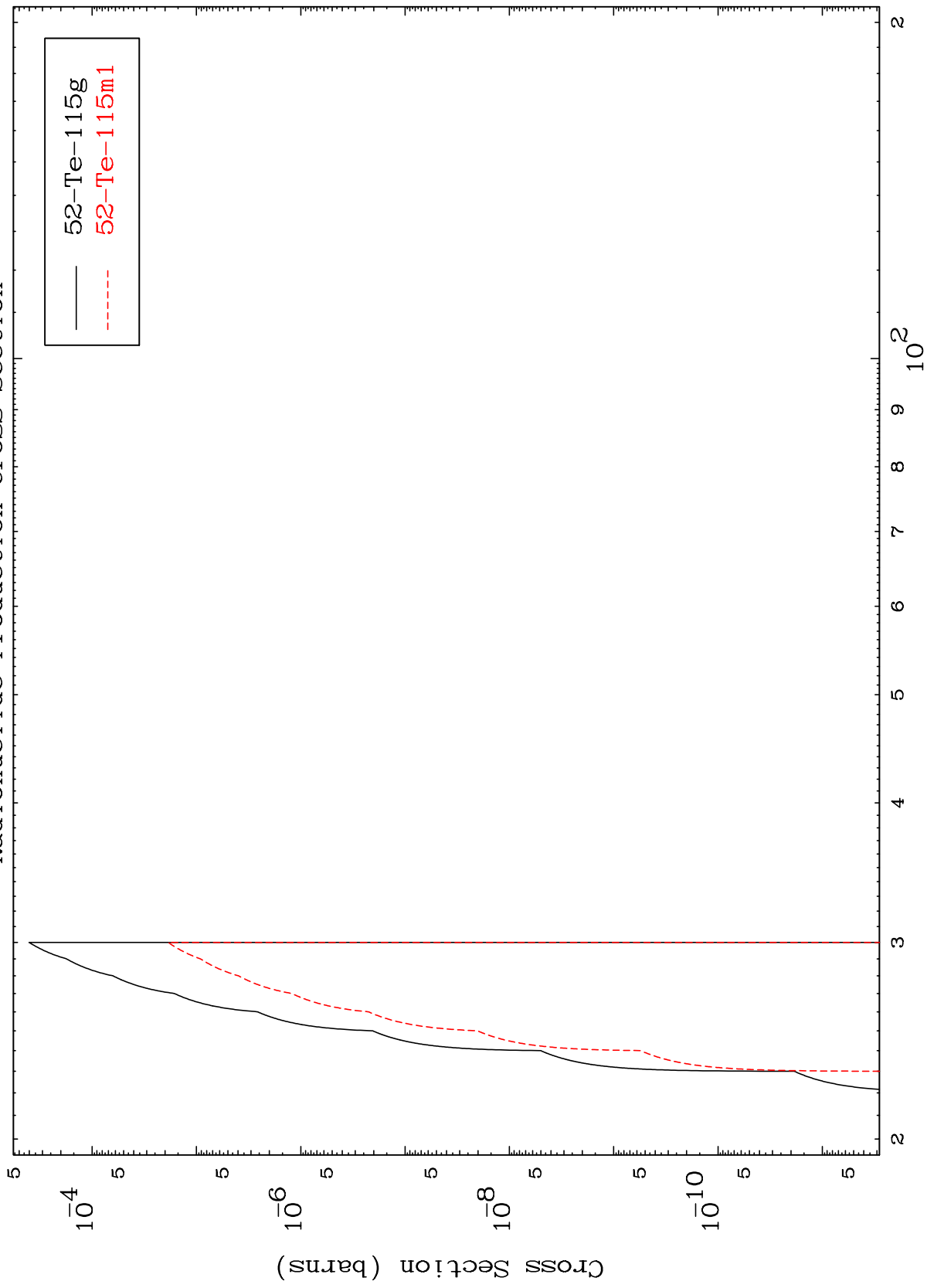


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(n,2n) d

53-I -118m

Radionuclide Production Cross Section



Incident Energy (MeV)

53-I -118m

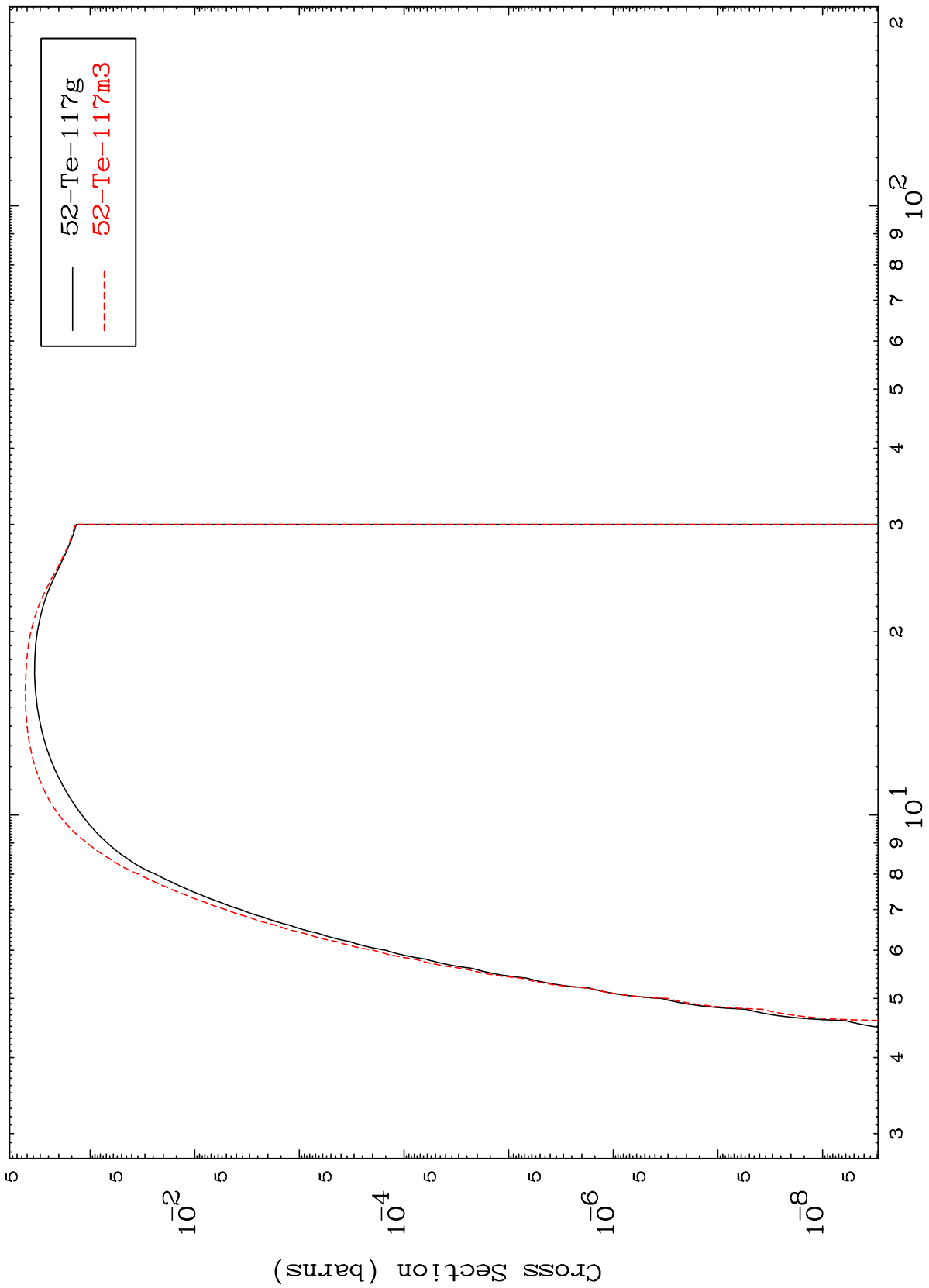
20

MAT 5299

(n,n') p

53-I -118m

Radionuclide Production Cross Section

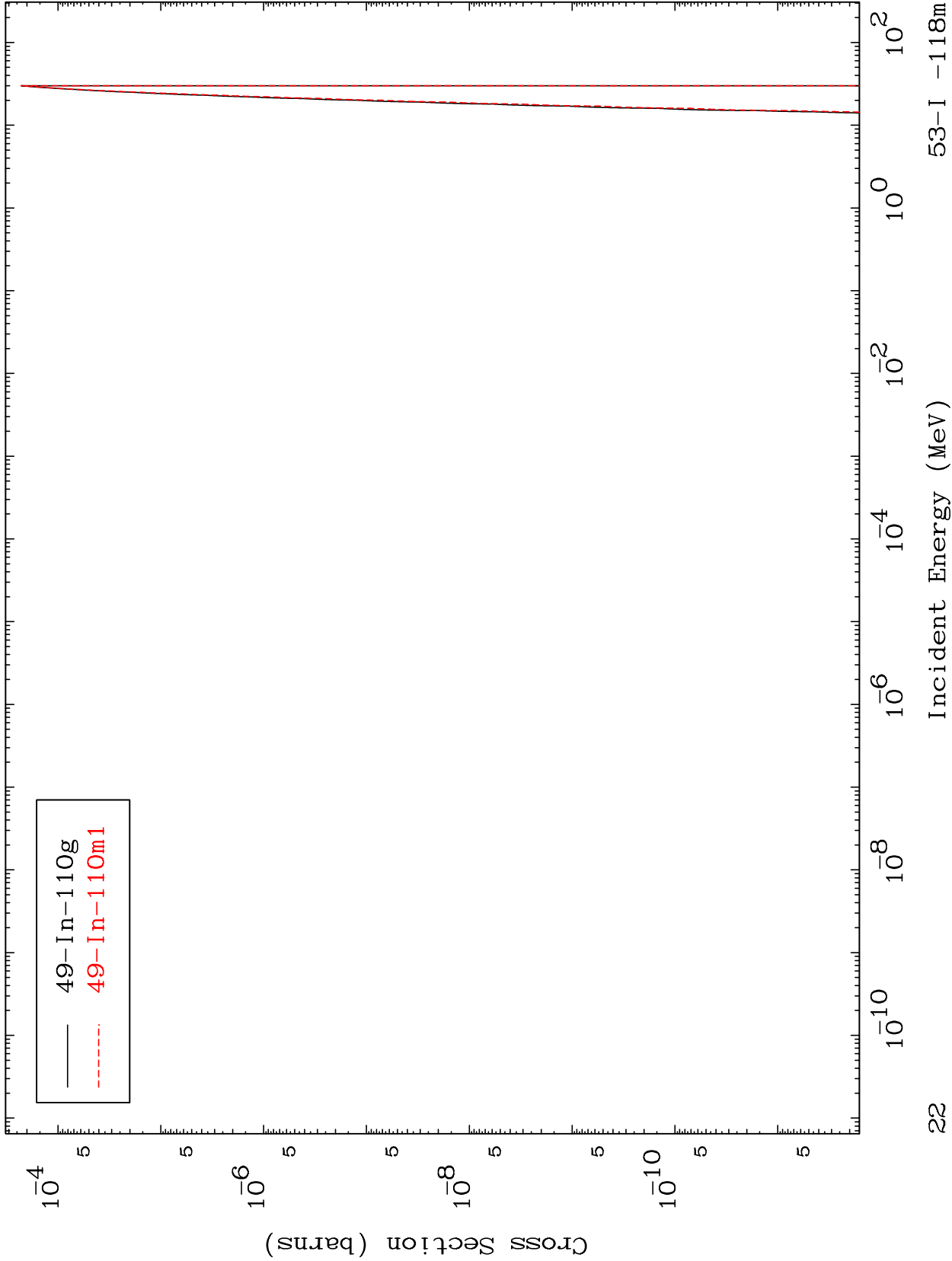


MAT 5299

(n,n') 2α

53-I -118m

Radionuclide Production Cross Section



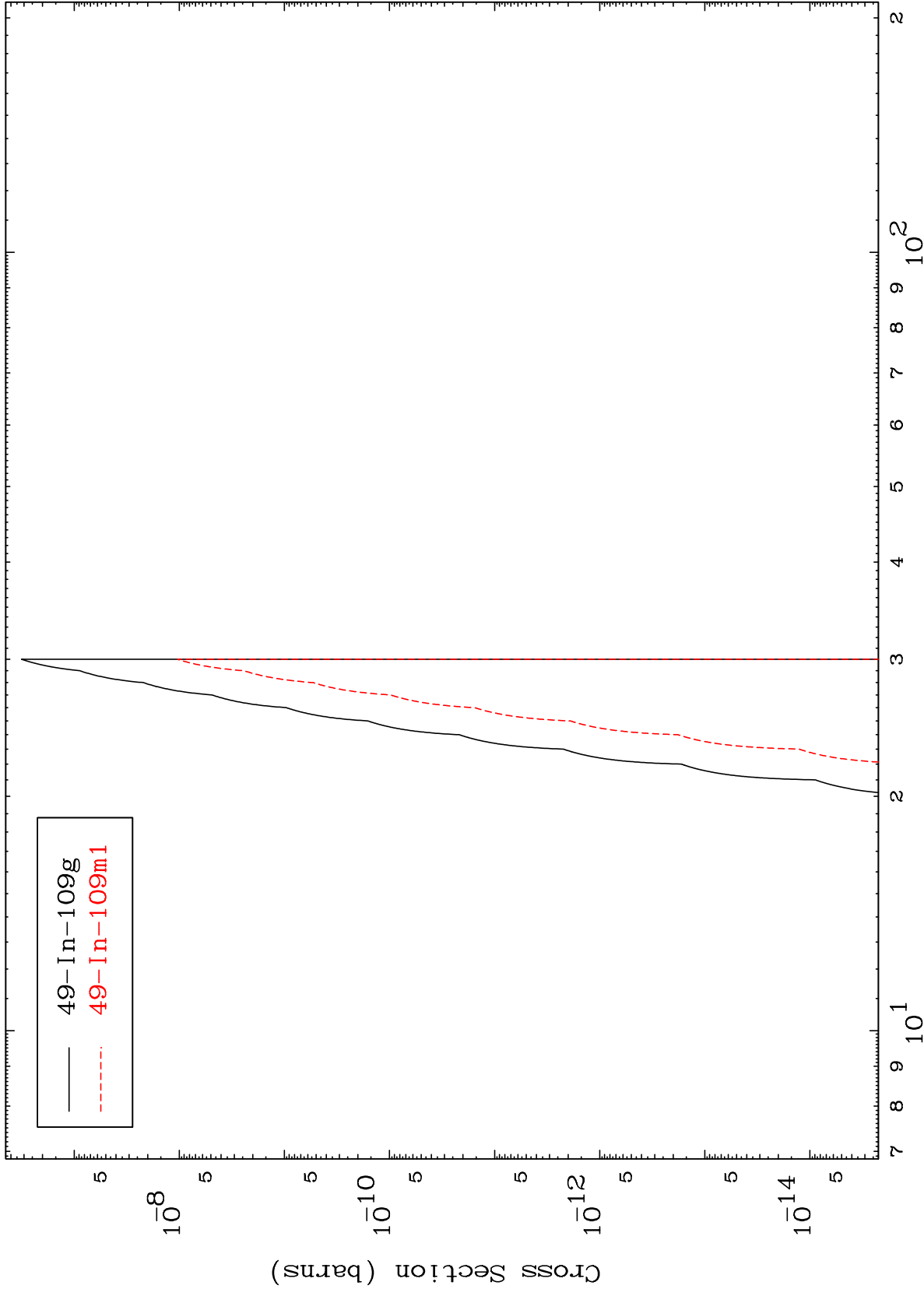
— 49-In-110g  
- - - 49-In-110m1

MAT 5299

(n,2n) 2α

53-I -118m

Radionuclide Production Cross Section



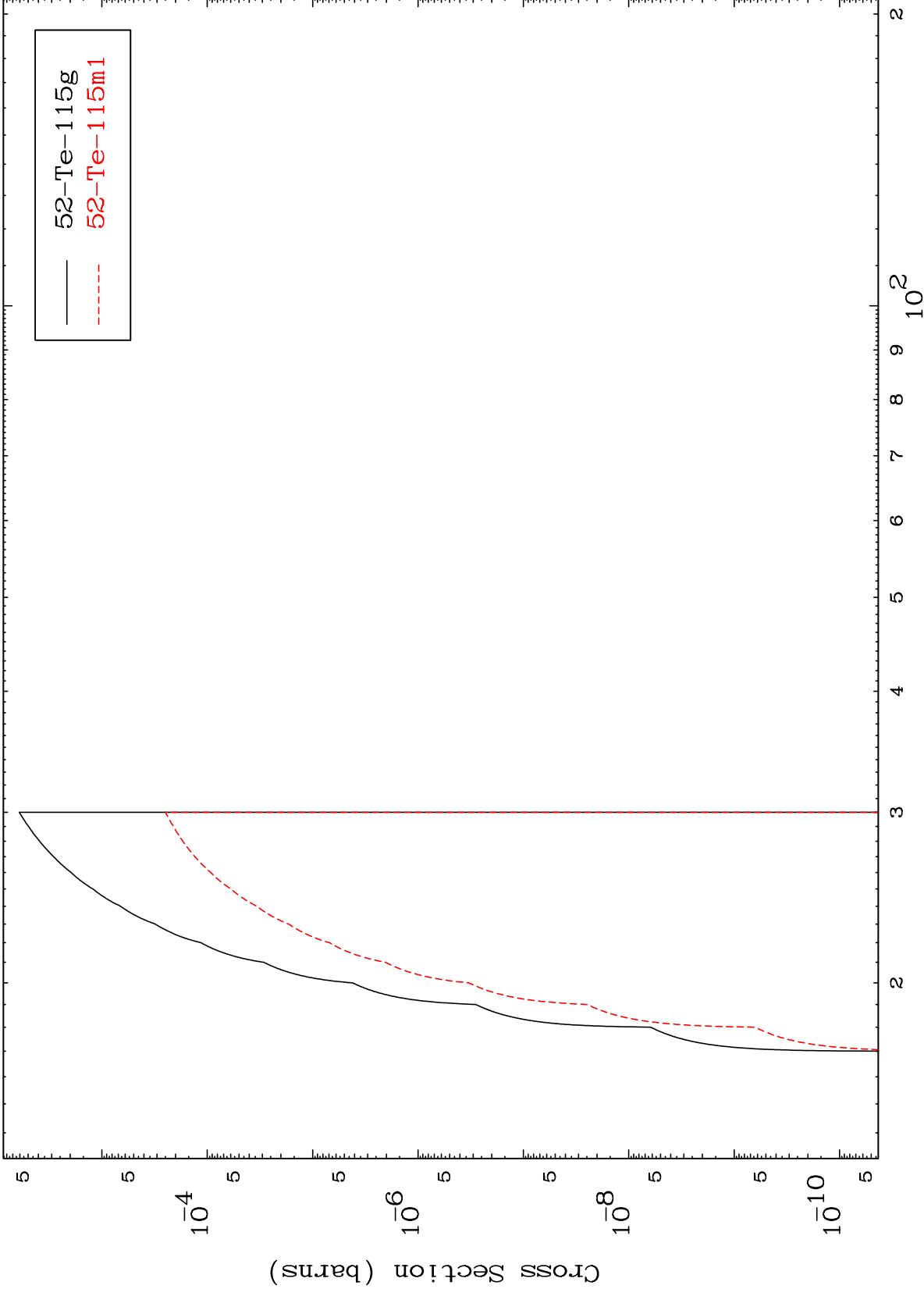
23

Incident Energy (MeV)

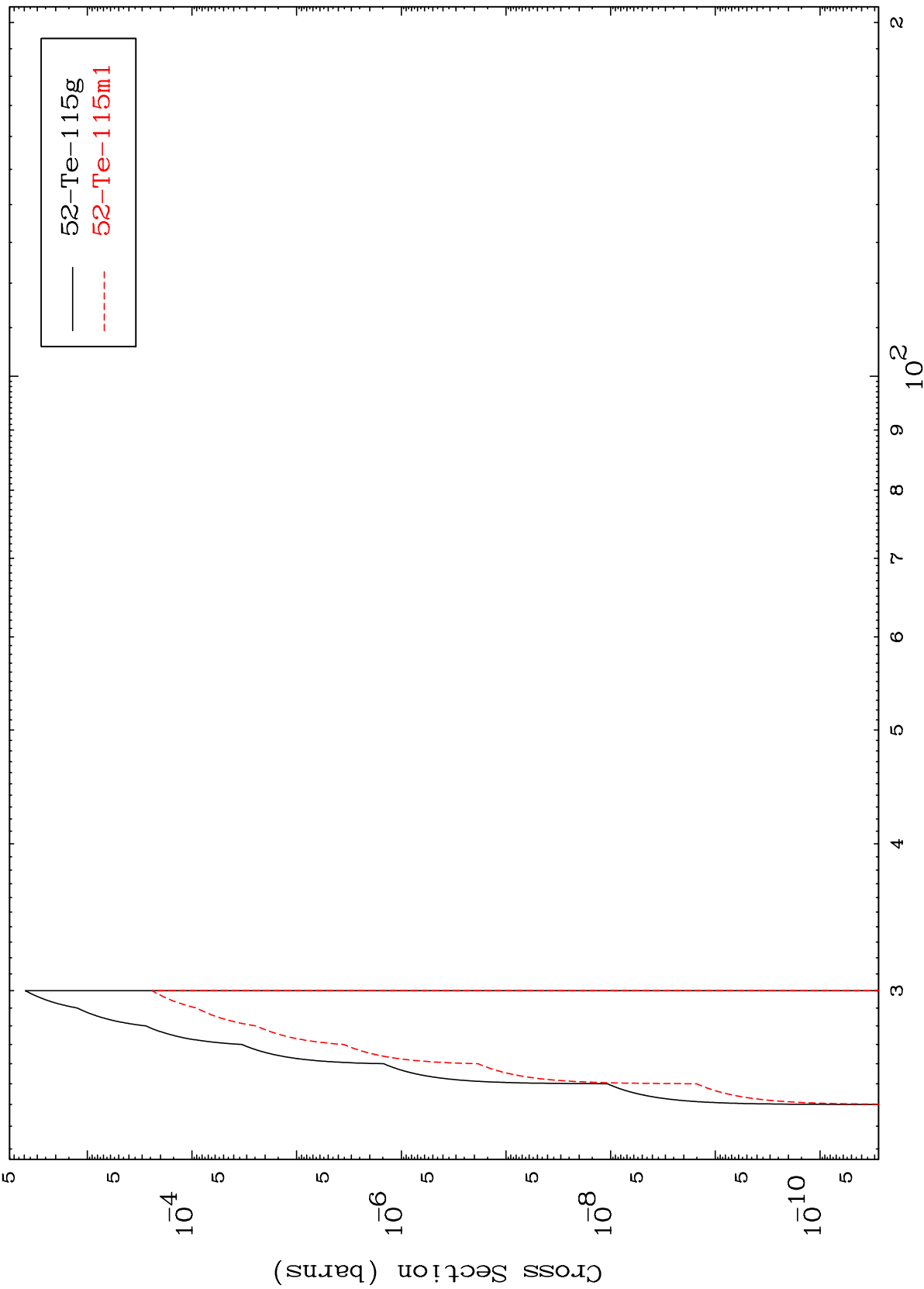
53-I -118m



Radionuclide Production Cross Section



Radionuclide Production Cross Section

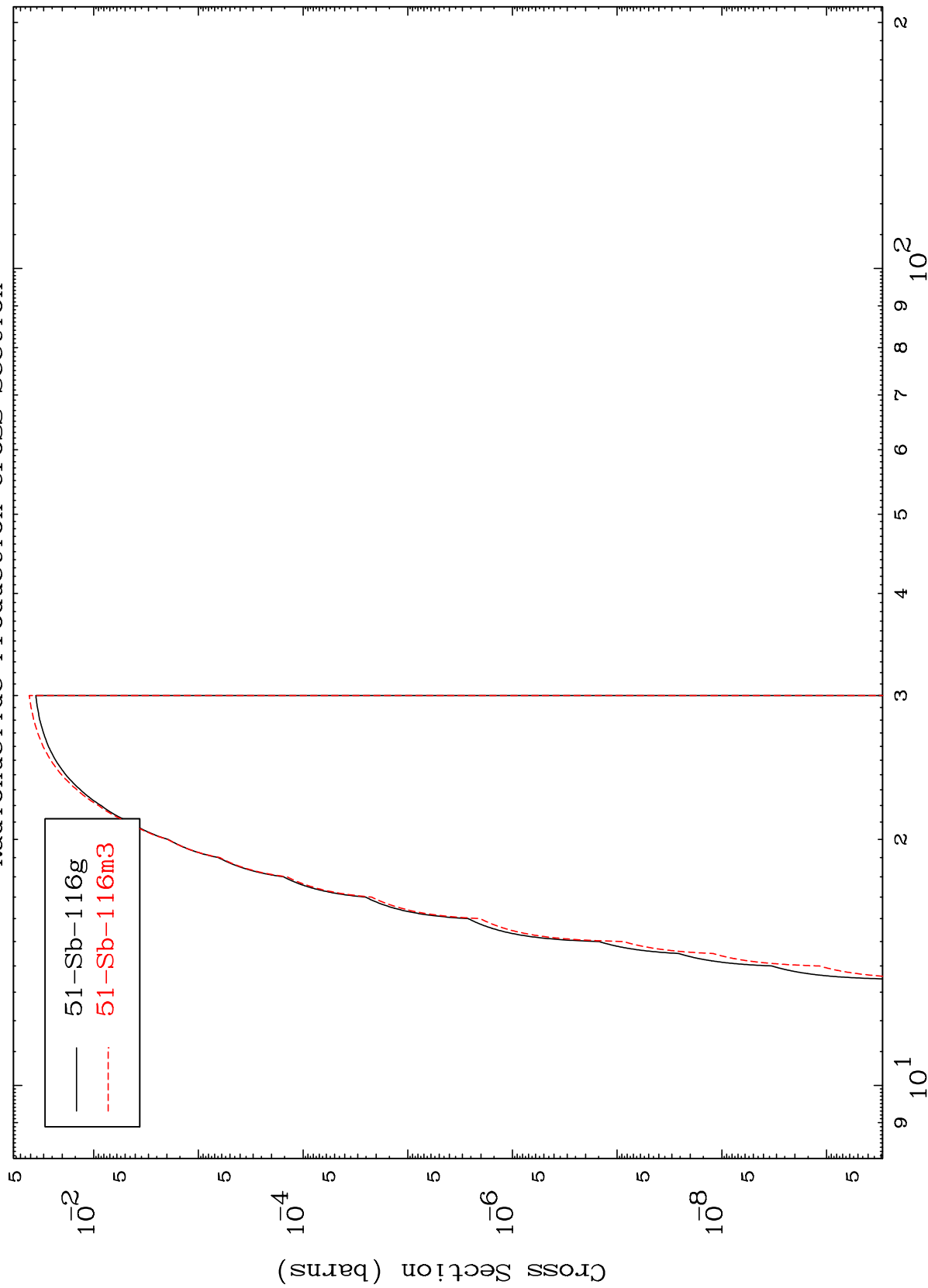


MAT 5299

(n,2n) p

53-I -118m

Radionuclide Production Cross Section



26

Incident Energy (MeV)

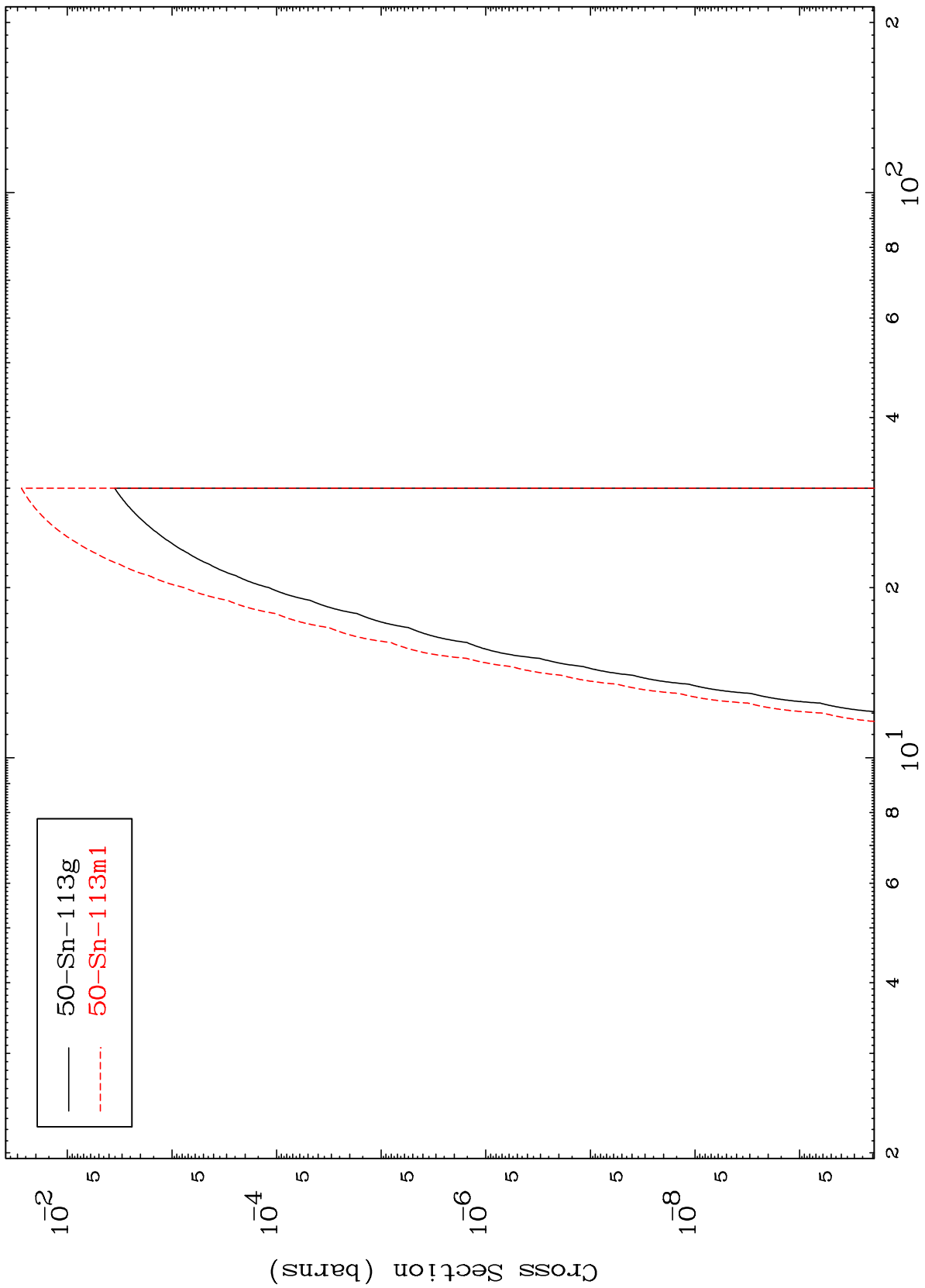
53-I -118m

MAT 5299

(n,n') p  $\alpha$

53-I -118m

Radionuclide Production Cross Section



27

Incident Energy (MeV)

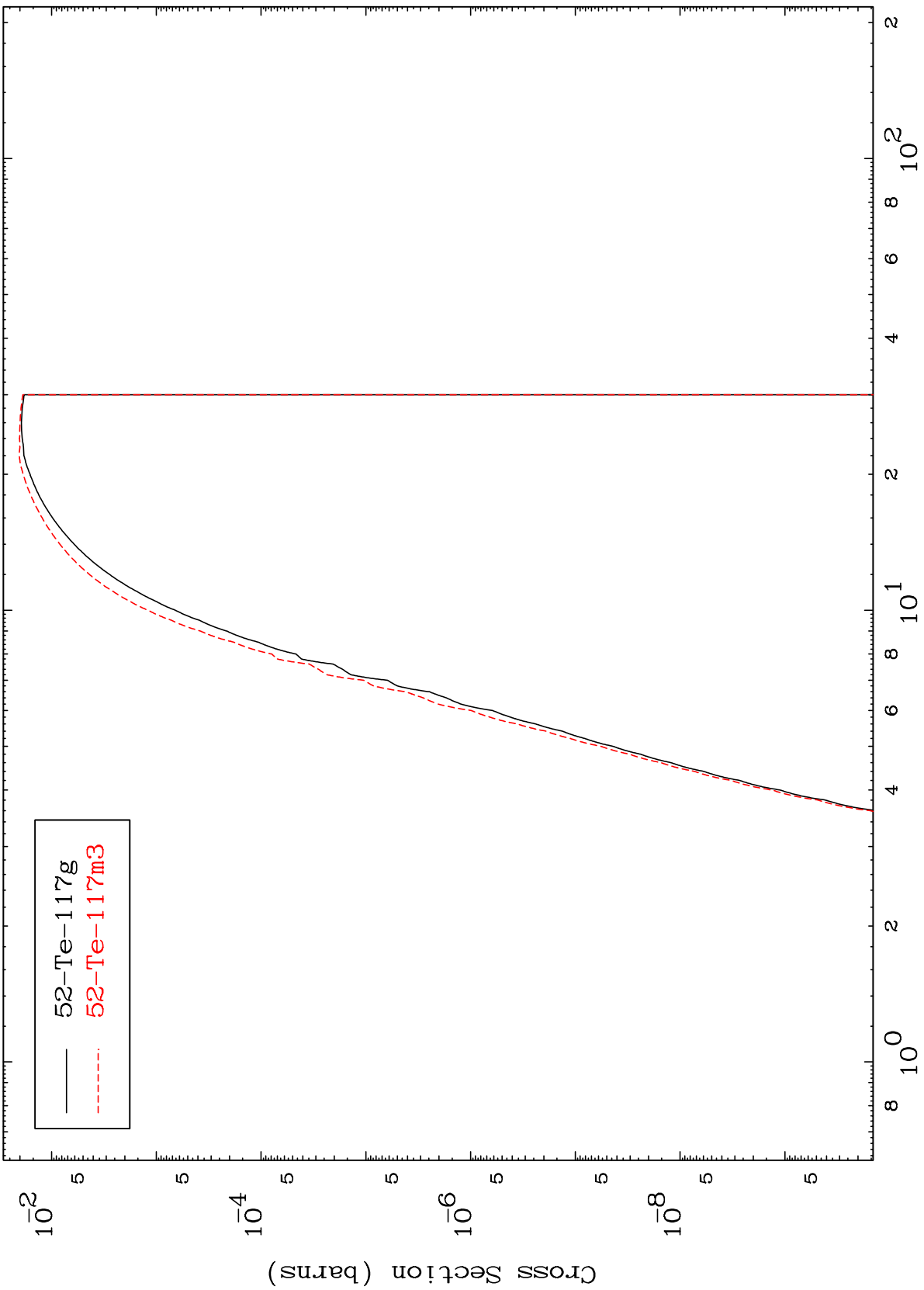
53-I -118m

MAT 5299

(n,d)

53-I -118m

Radionuclide Production Cross Section



28

Incident Energy (MeV)

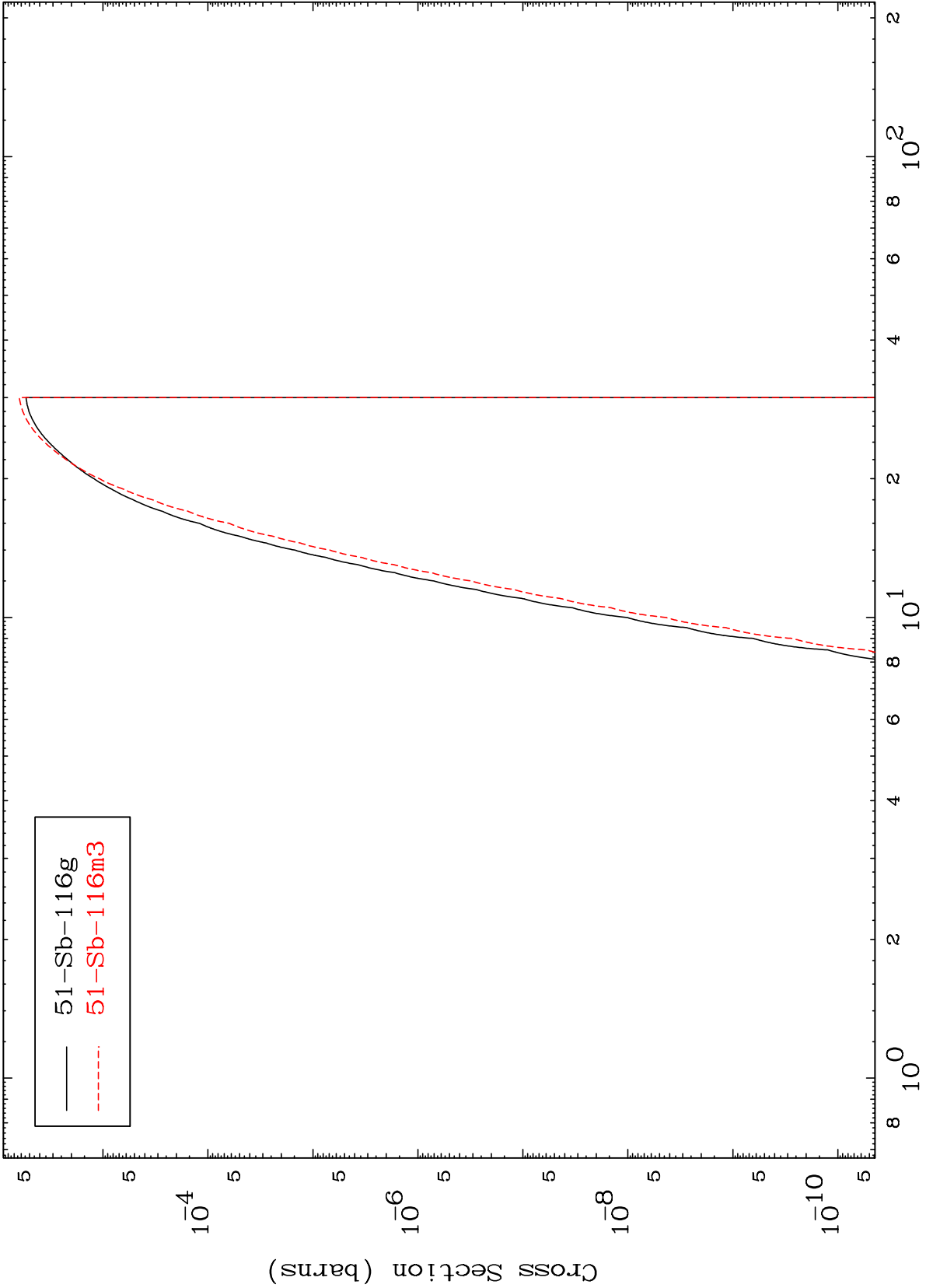
53-I -118m

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(n,He-3)

53-I -118m

Radionuclide Production Cross Section



29

Incident Energy (MeV)

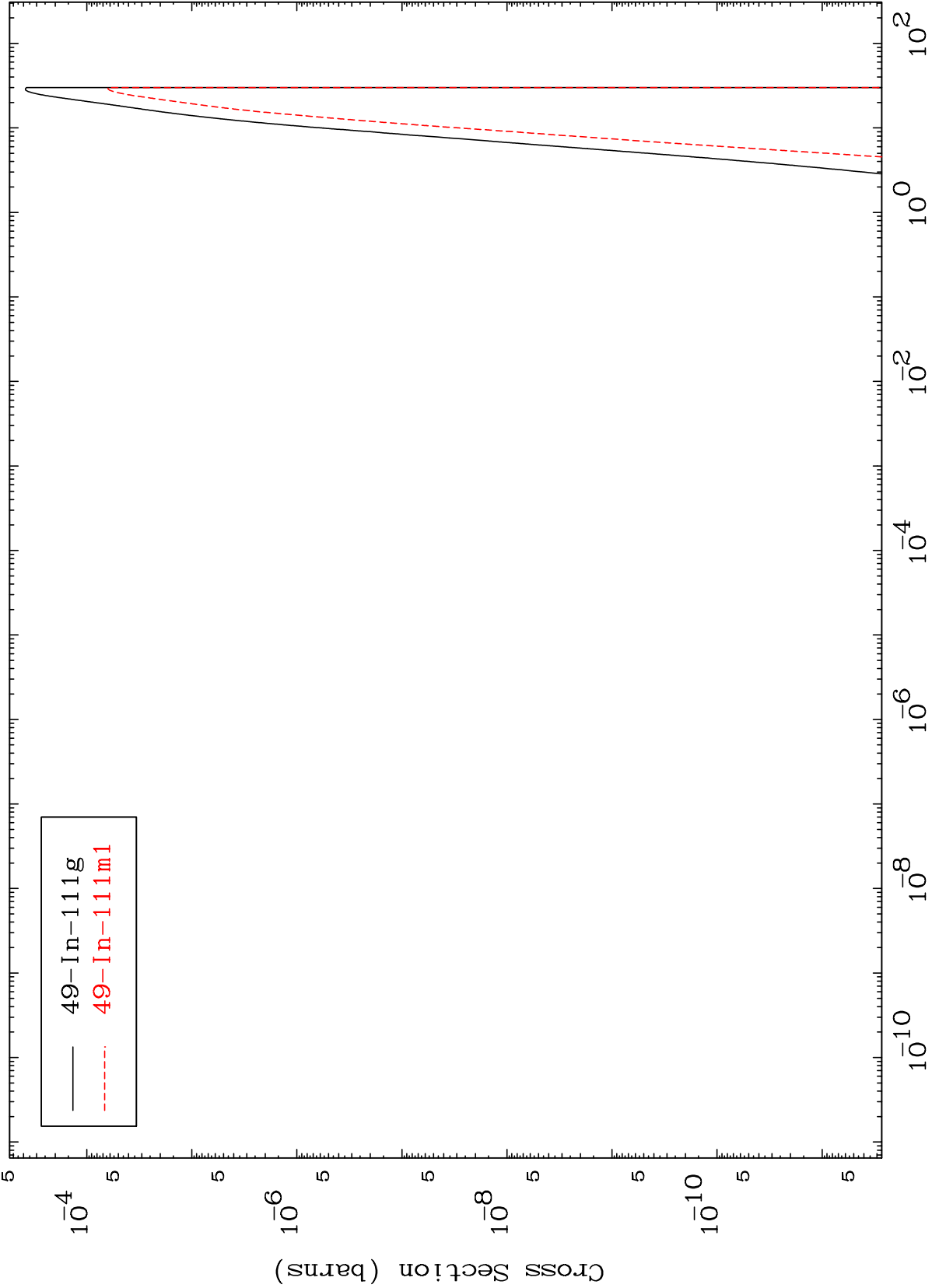
53-I -118m

MAT 5299

(n,2α)

53-I -118m

Radionuclide Production Cross Section



— 49-In-111g  
- - - 49-In-111m1

Incident Energy (MeV)

53-I -118m

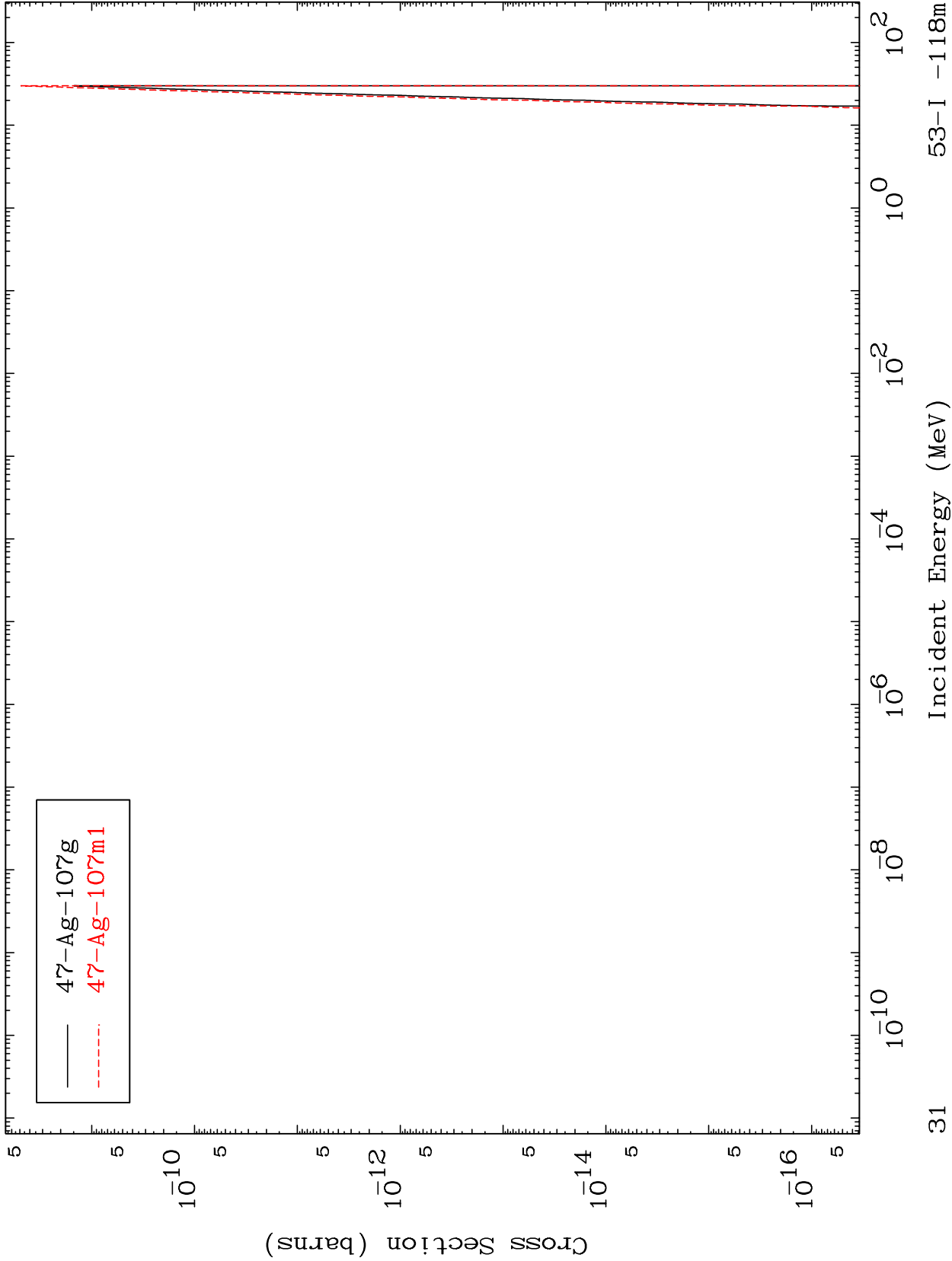
30

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(n, 3α)

53-I -118m

Radionuclide Production Cross Section



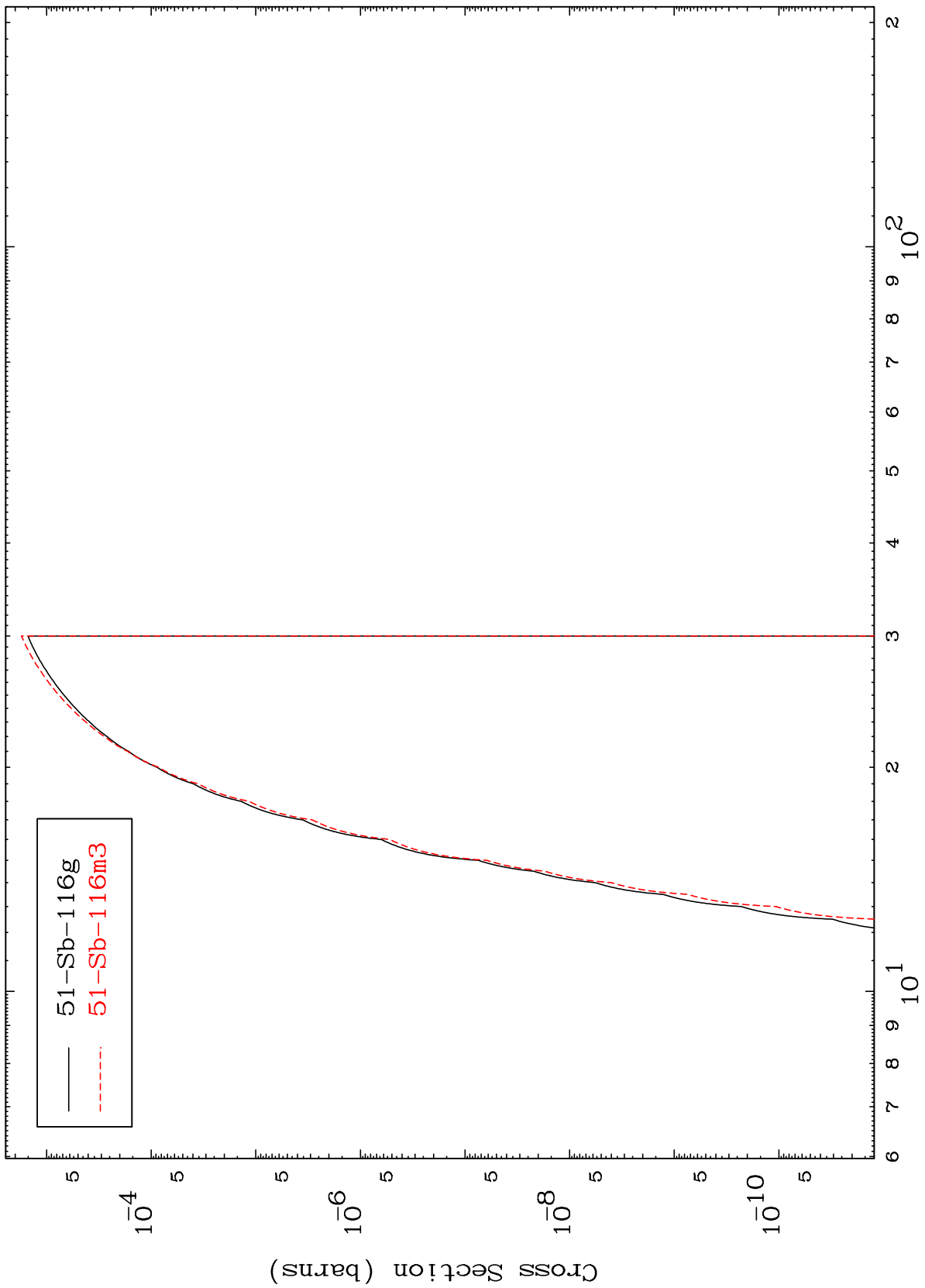


MAT 5299

(n,p) d

53-I -118m

Radionuclide Production Cross Section



51-Sb-116g  
51-Sb-116m3

32

Incident Energy (MeV)

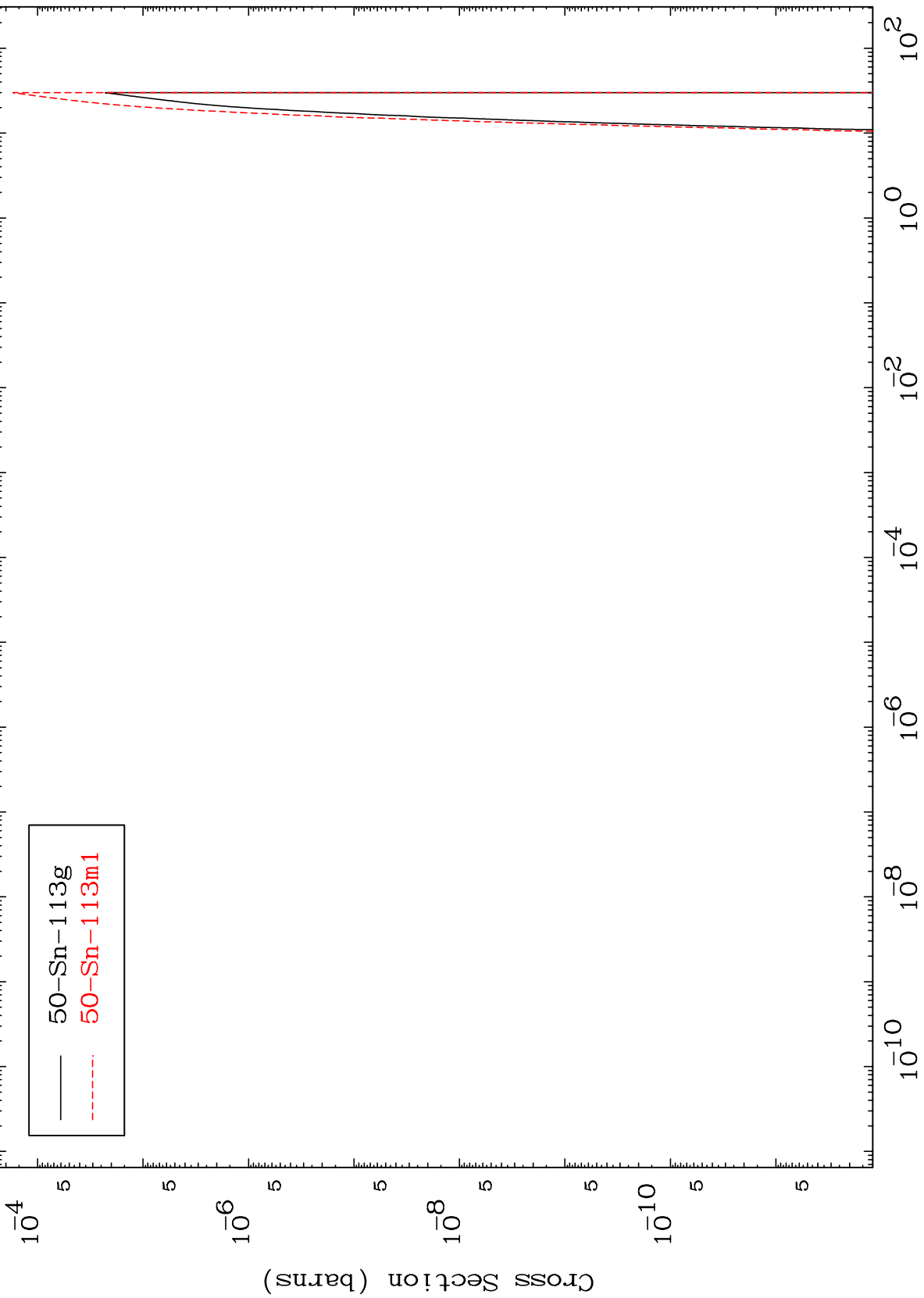
53-I -118m

MAT 5299

(n,d)  $\alpha$

53-I -118m

Radionuclide Production Cross Section



50-Sn-113g  
50-Sn-113m1

Incident Energy (MeV)

53-I -118m