

Program EVALPLOT  
(Version 2021-1)

by

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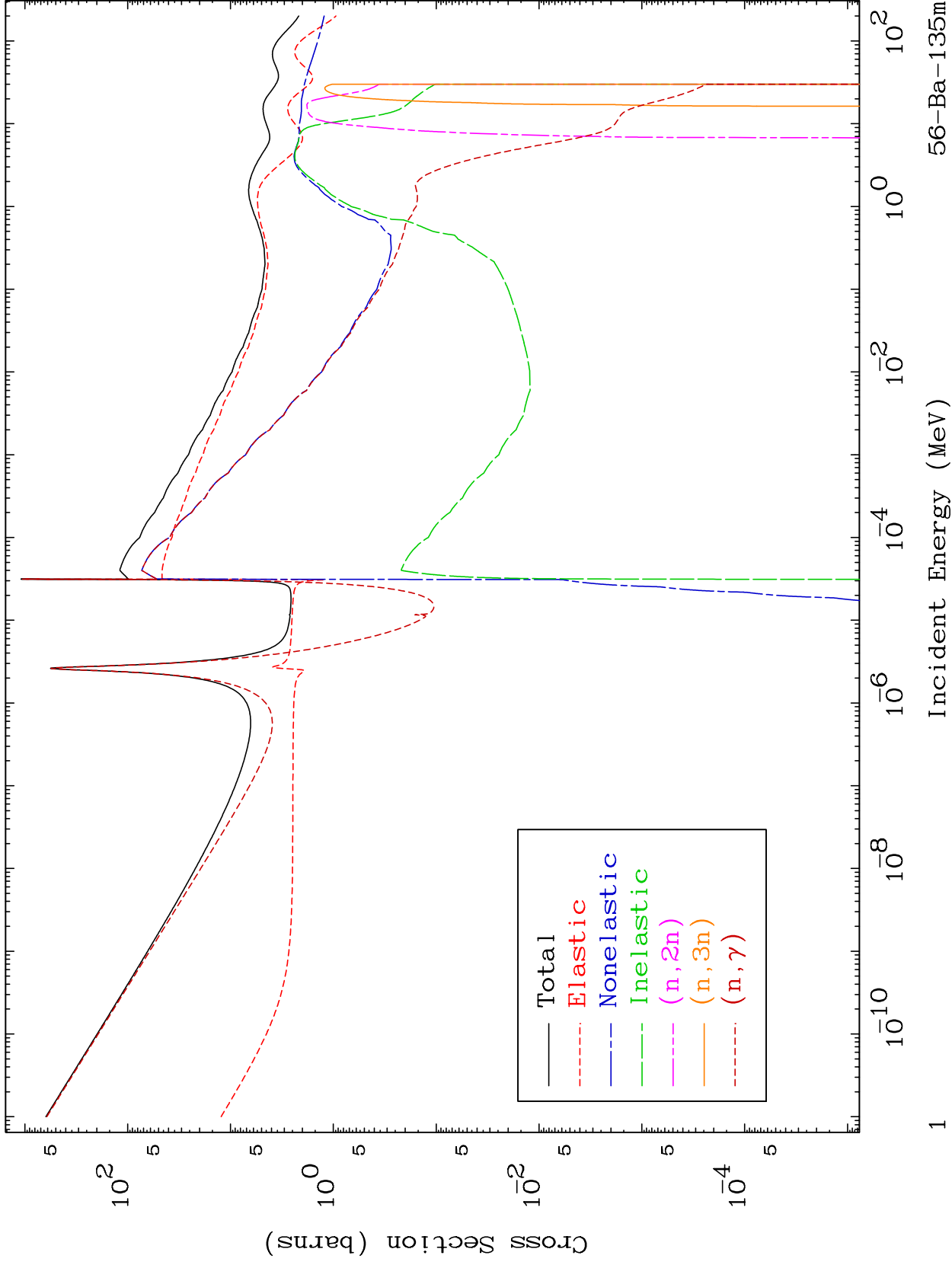
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5641

Neutron Major  
293 Kelvin Cross Sections

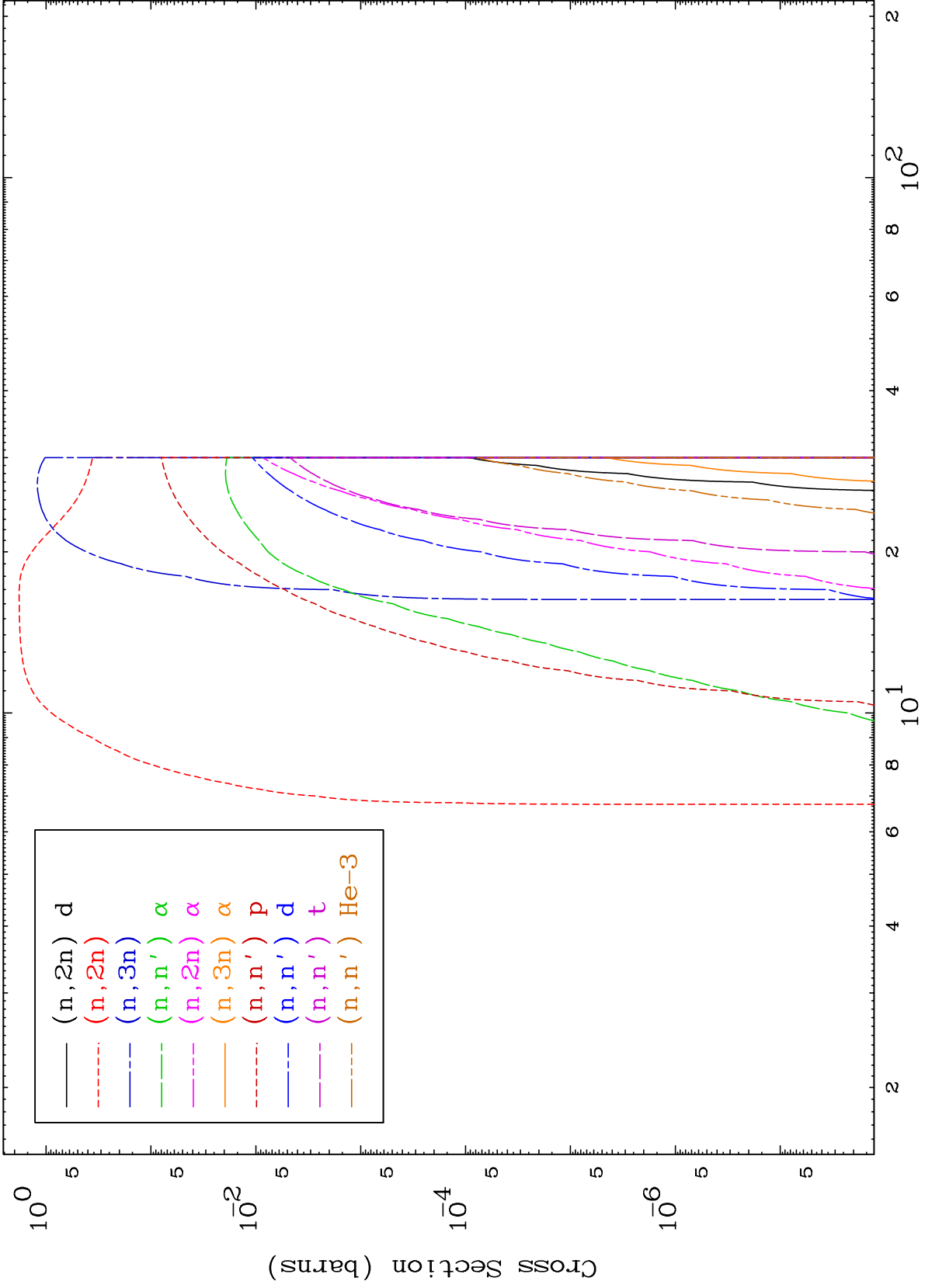
56-Ba-135m



MAT 5641

Neutron Absorption  
293 Kelvin Cross Sections

56-Ba-135m



2

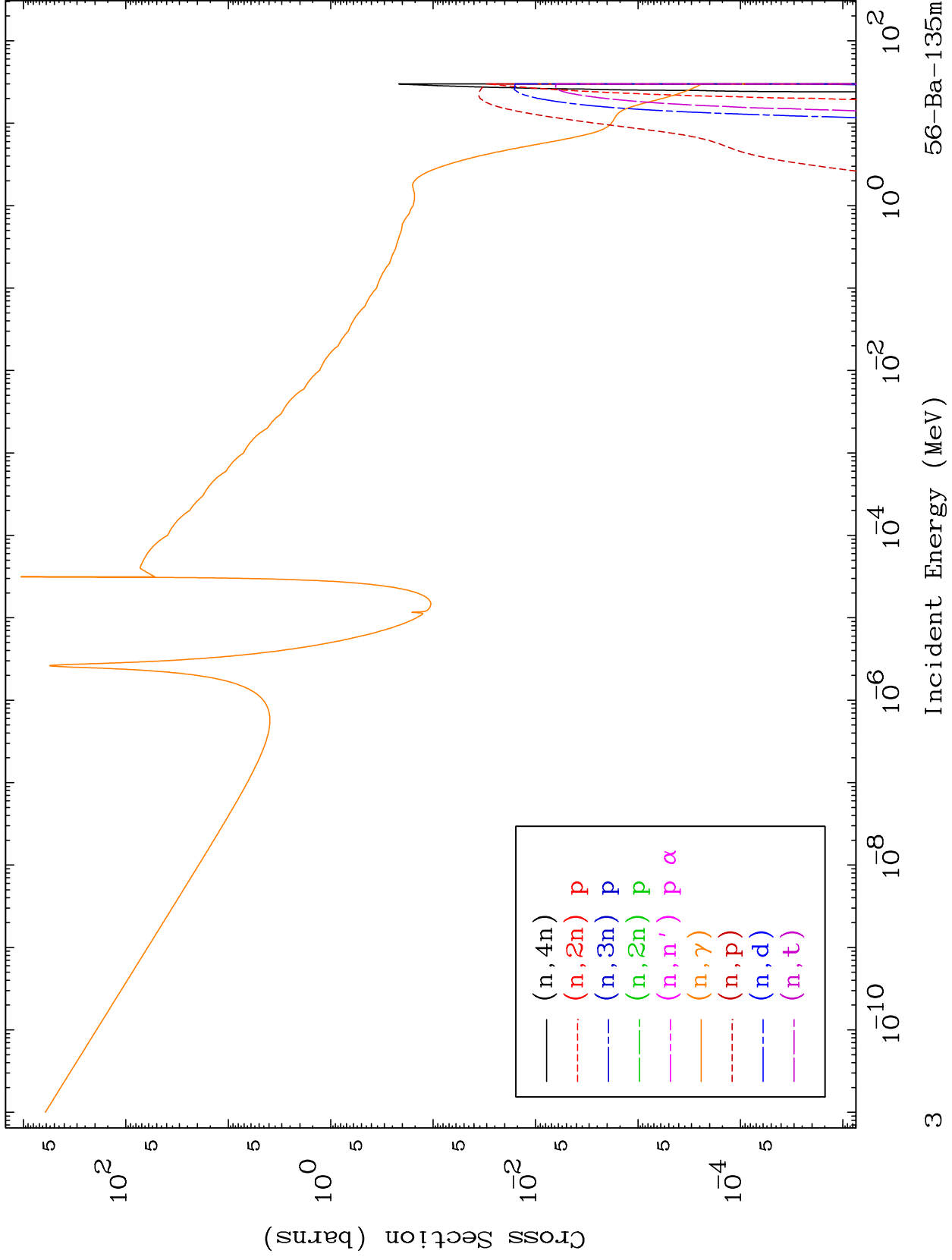
Incident Energy (MeV)

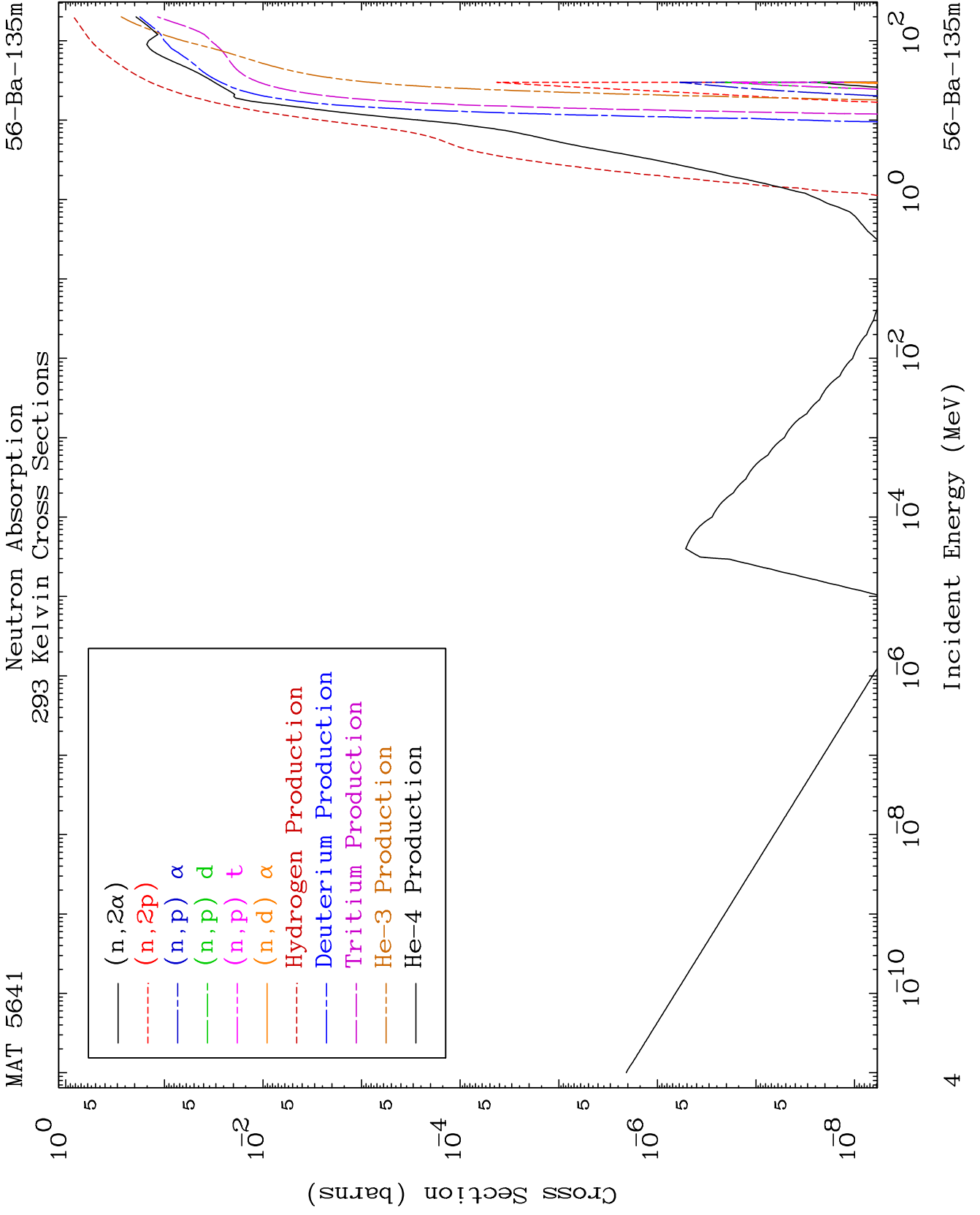
56-Ba-135m

MAT 5641

Neutron Absorption  
293 Kelvin Cross Sections

56-Ba-135m

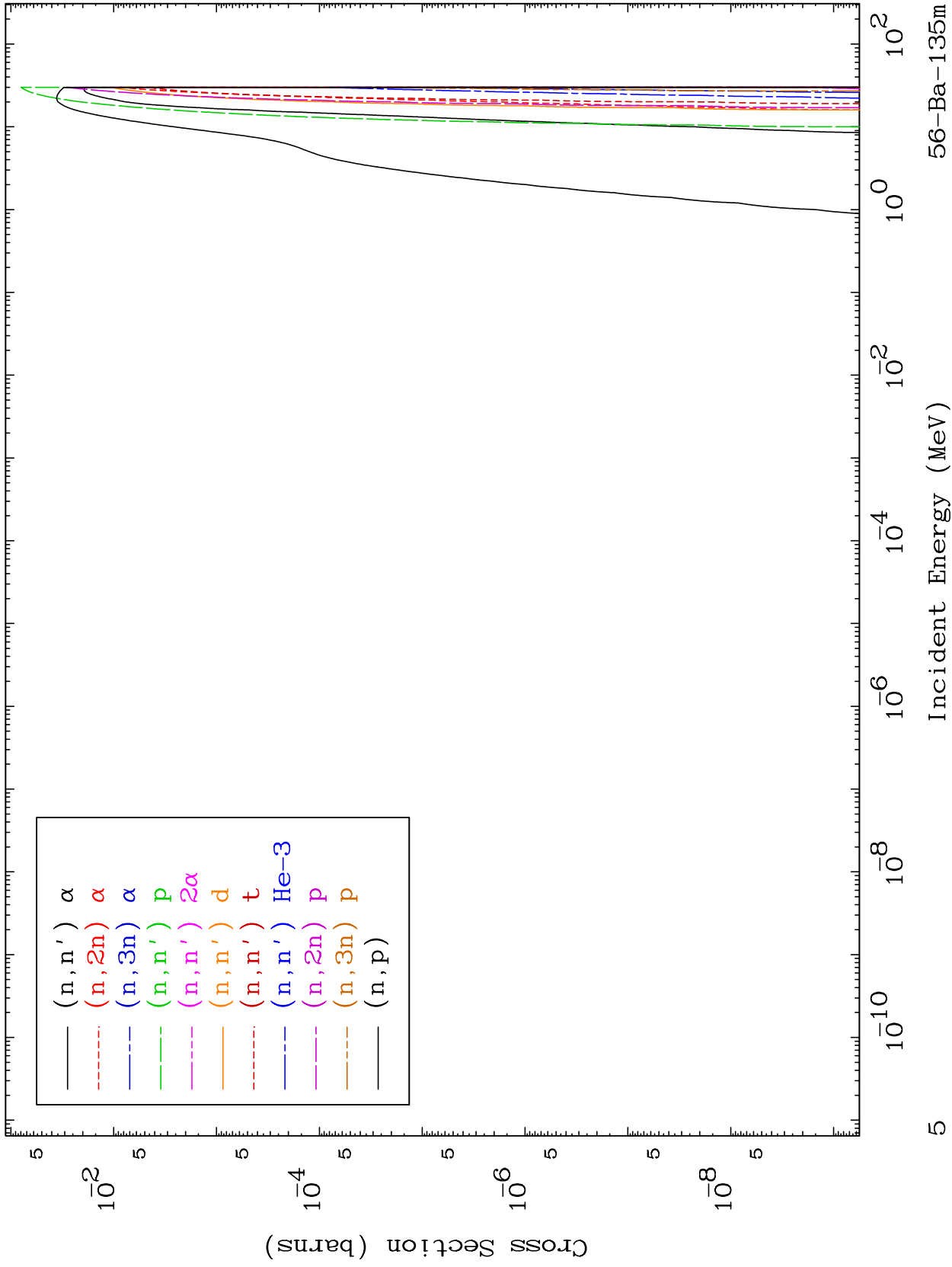




MAT 5641

Charged Particle  
293 Kelvin Cross Sections

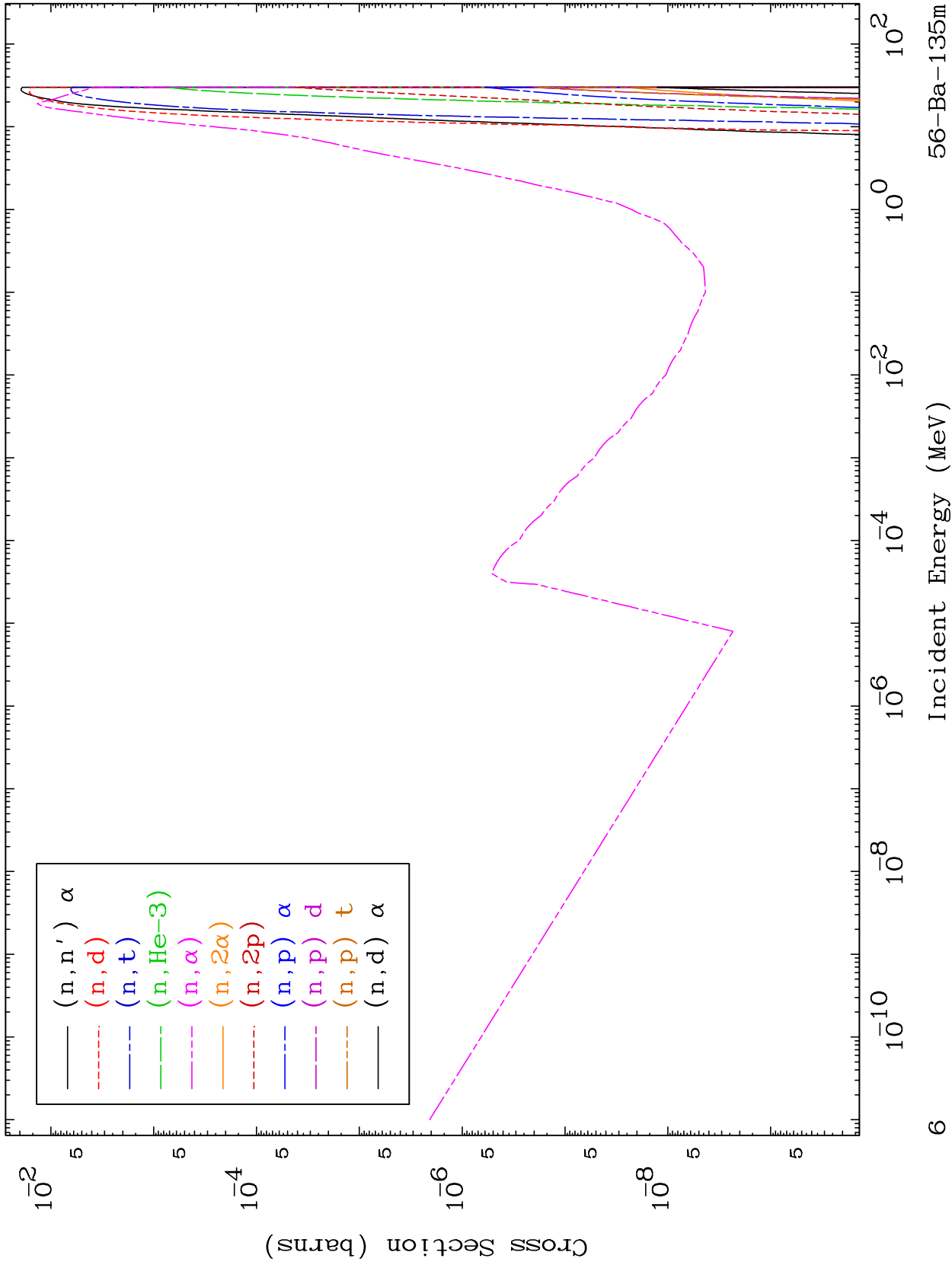
56-Ba-135m



MAT 5641

Charged Particle  
293 Kelvin Cross Sections

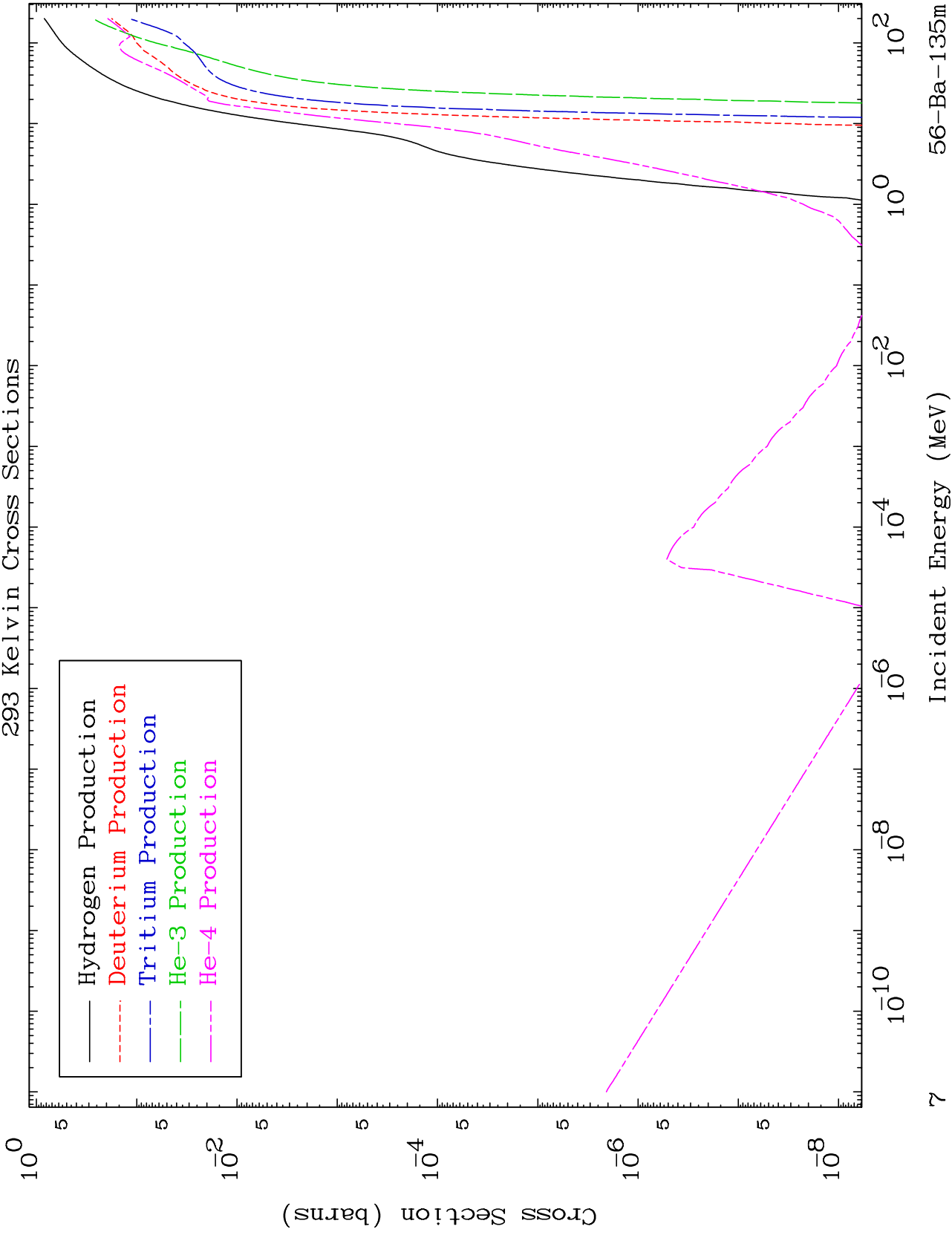
56-Ba-135m



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Particle Production  
293 Kelvin Cross Sections

56-Ba-135m

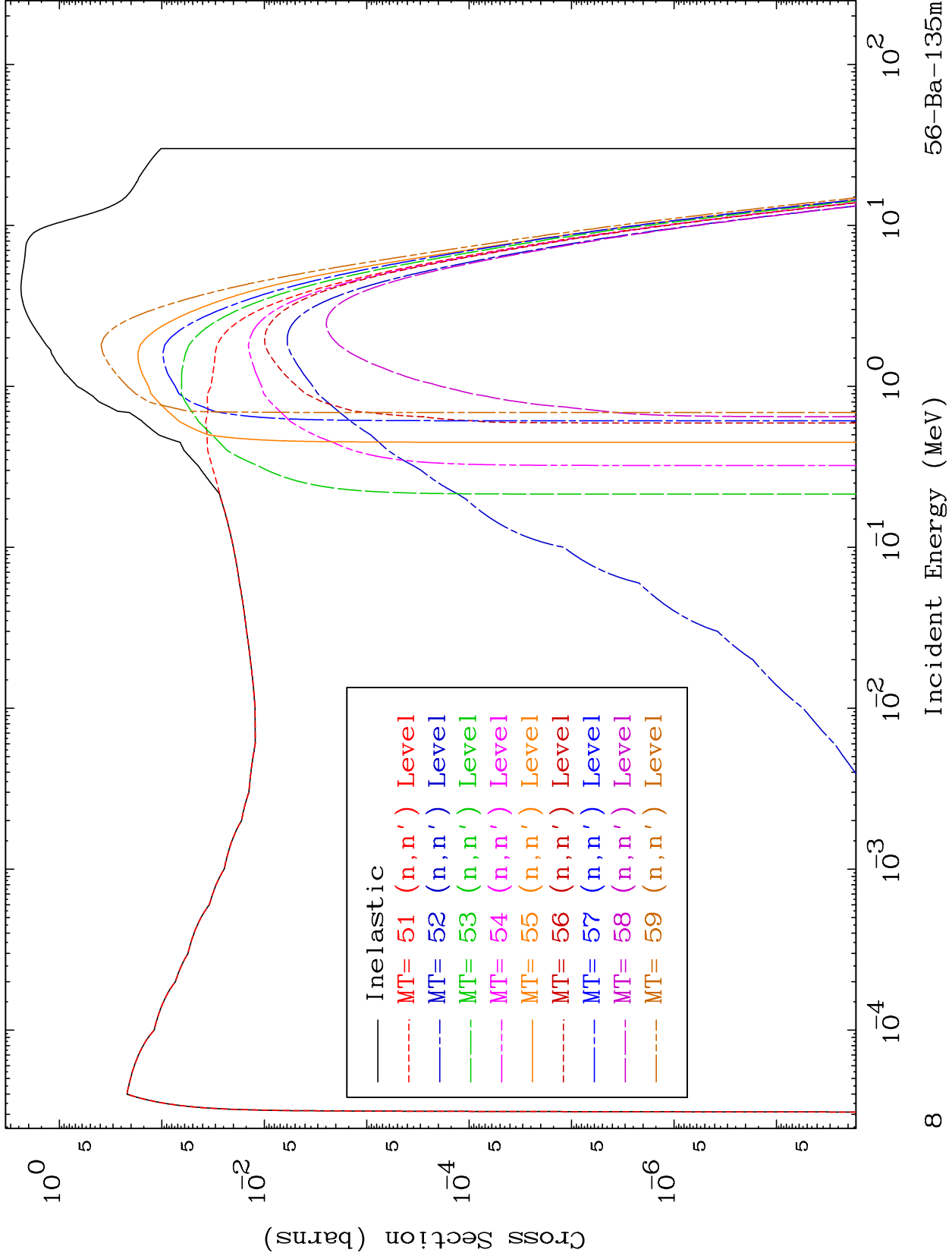




MAT 5641

(n,n') Levels  
293 Kelvin Cross Sections

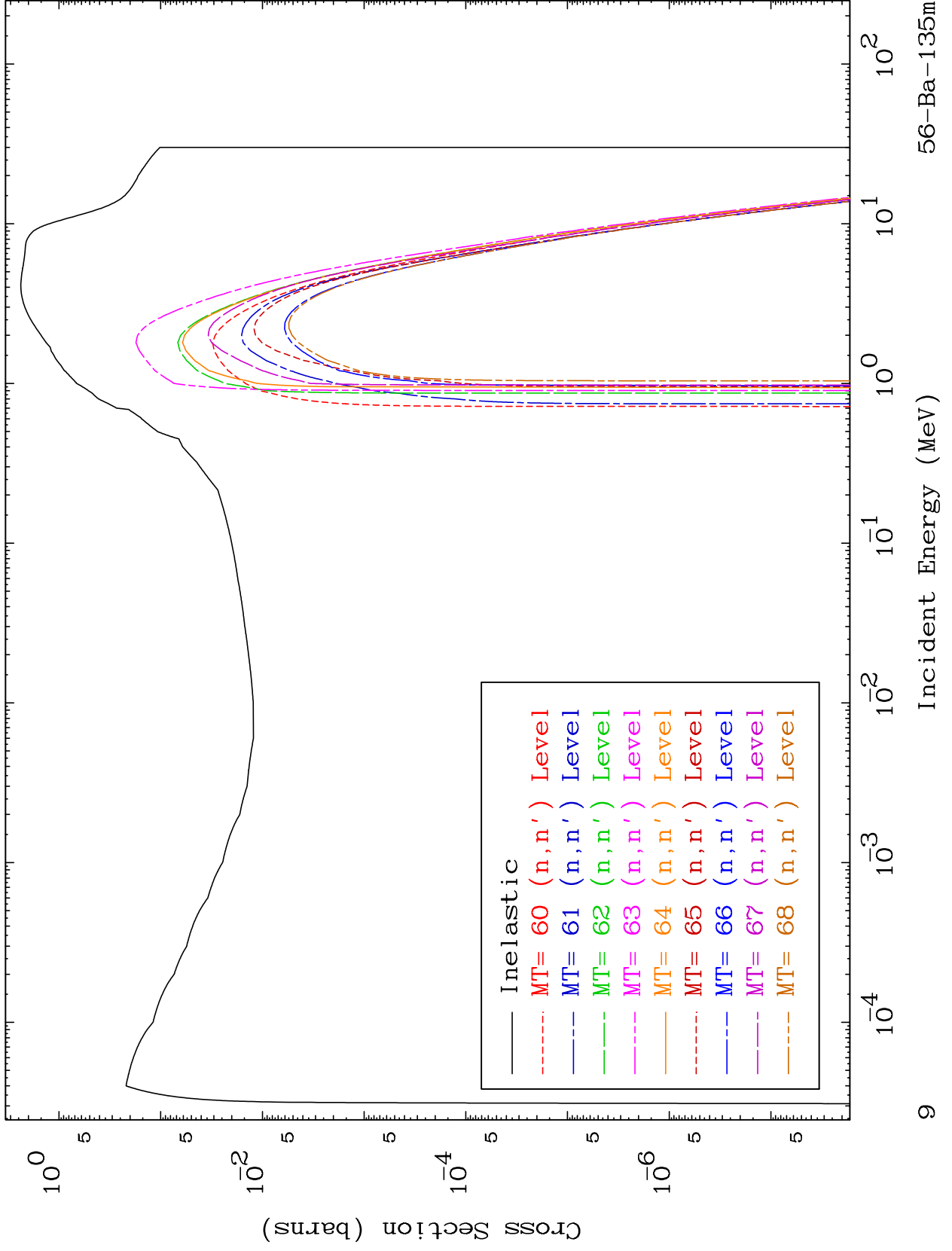
56-Ba-135m



MAT 5641

(n,n') Levels  
293 Kelvin Cross Sections

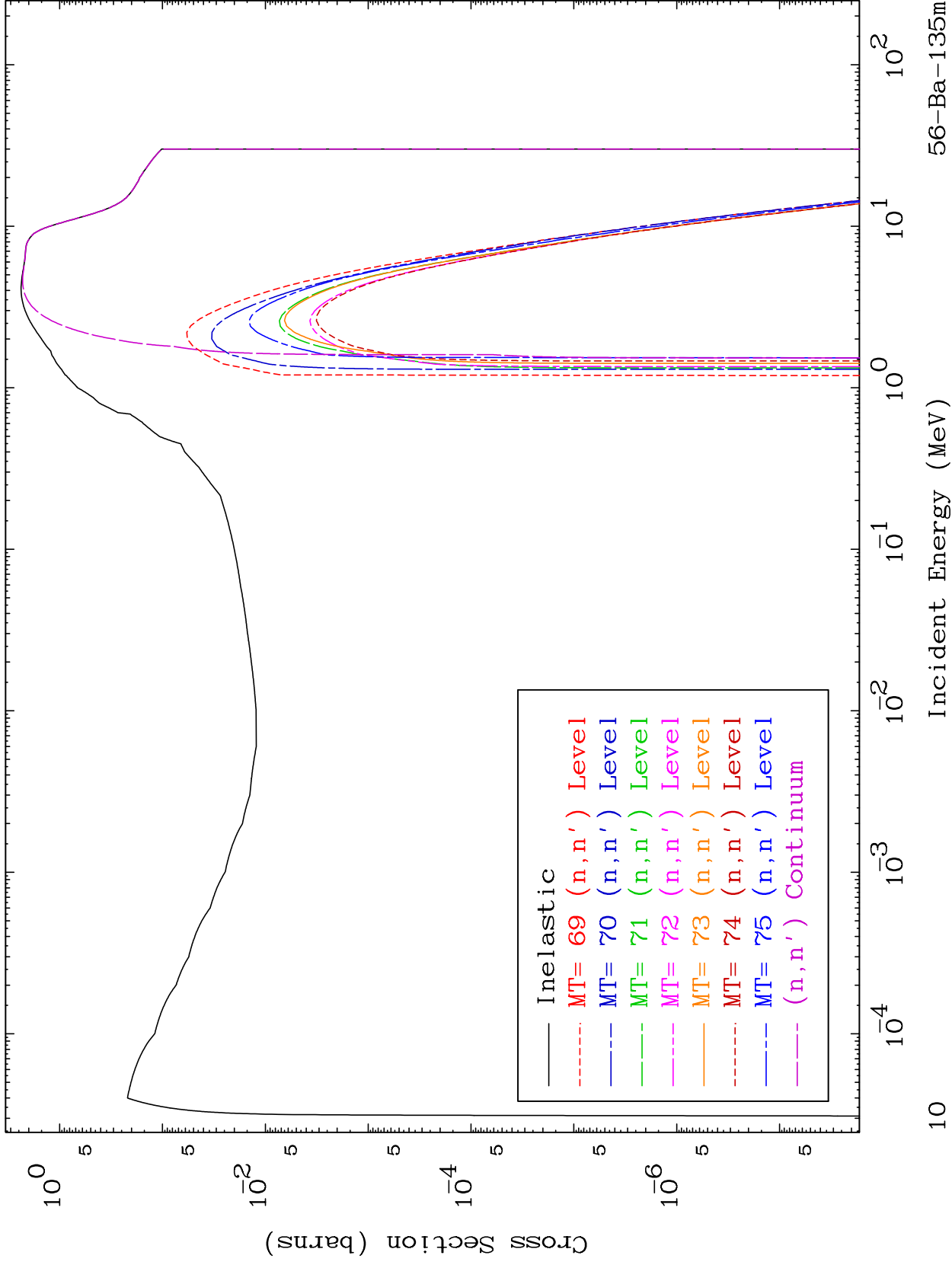
56-Ba-135m



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(n,n') Levels  
293 Kelvin Cross Sections

56-Ba-135m

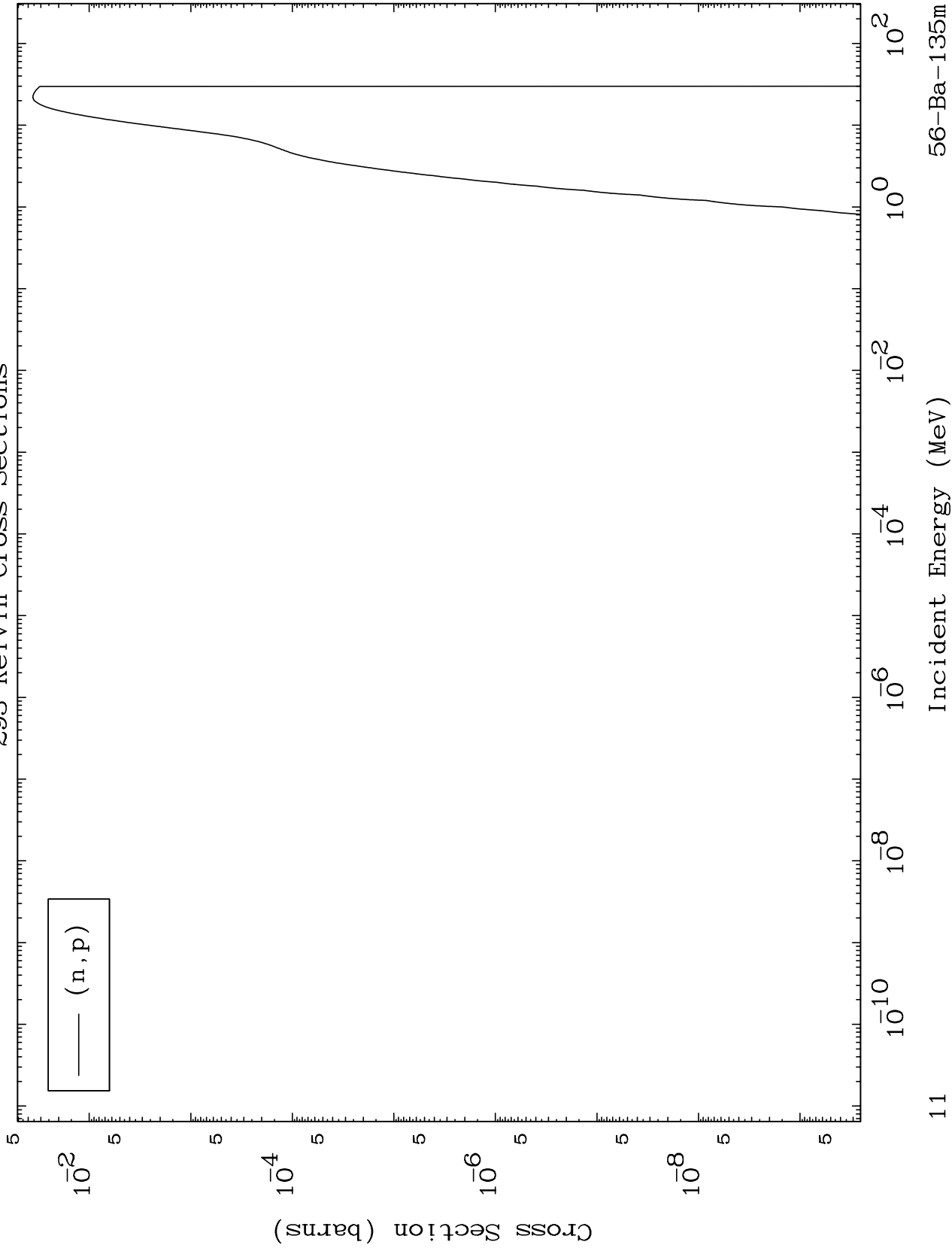


10

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(n,p) Levels  
293 Kelvin Cross Sections

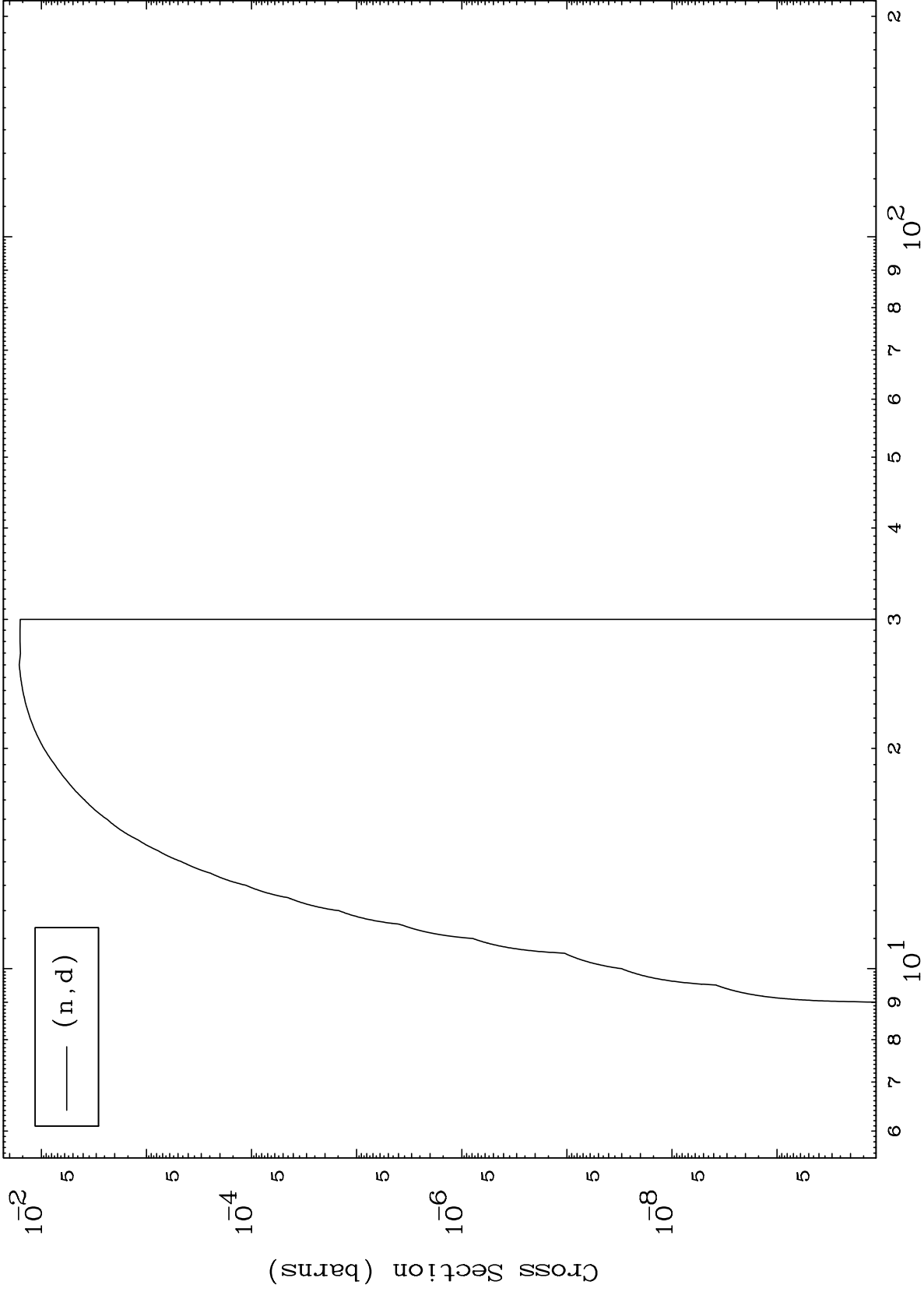
56-Ba-135m



MAT 5641

(n,d) Levels  
293 Kelvin Cross Sections

56-Ba-135m



12

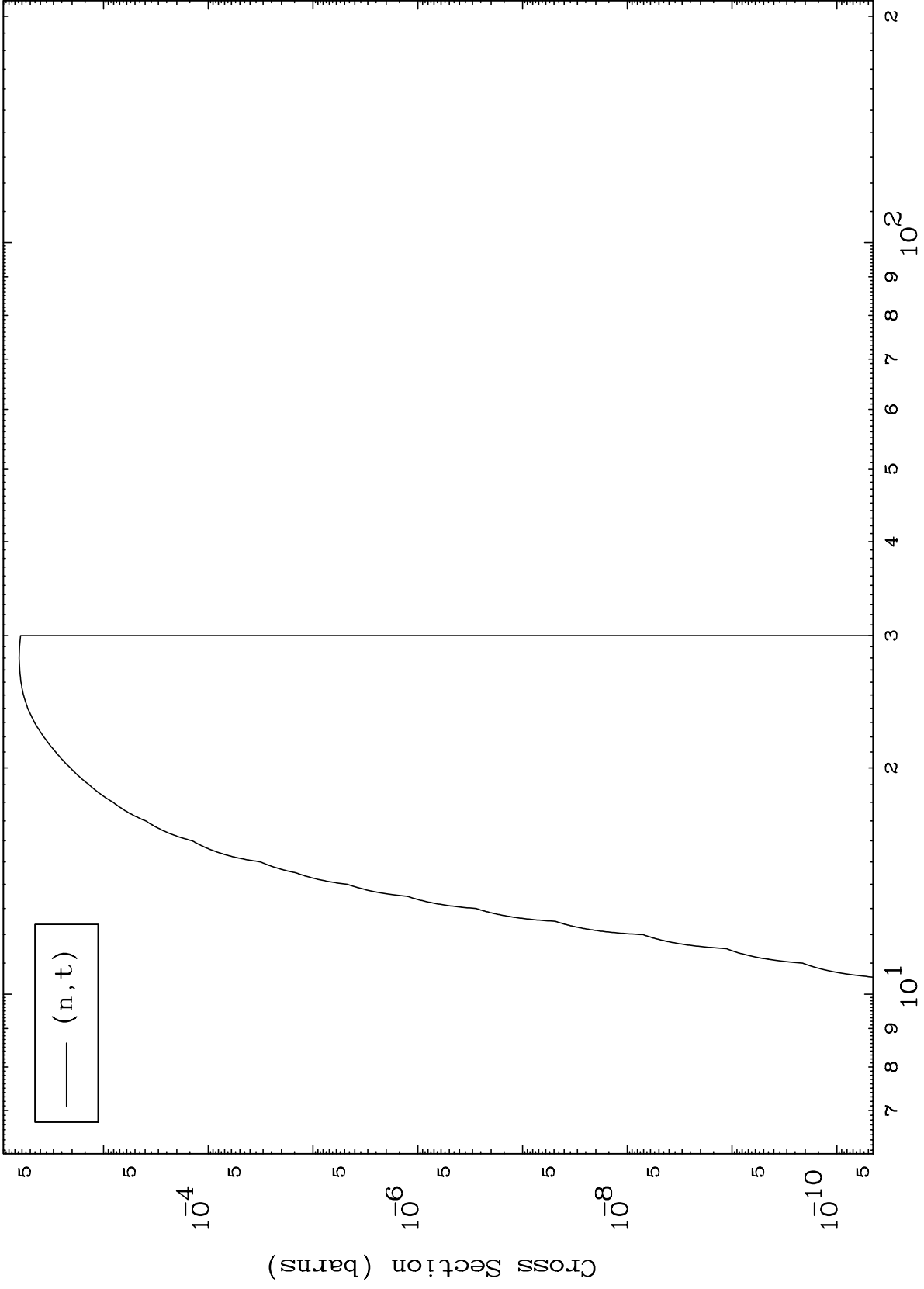
Incident Energy (MeV)

56-Ba-135m

MAT 5641

(n,t) Levels  
293 Kelvin Cross Sections

56-Ba-135m



13

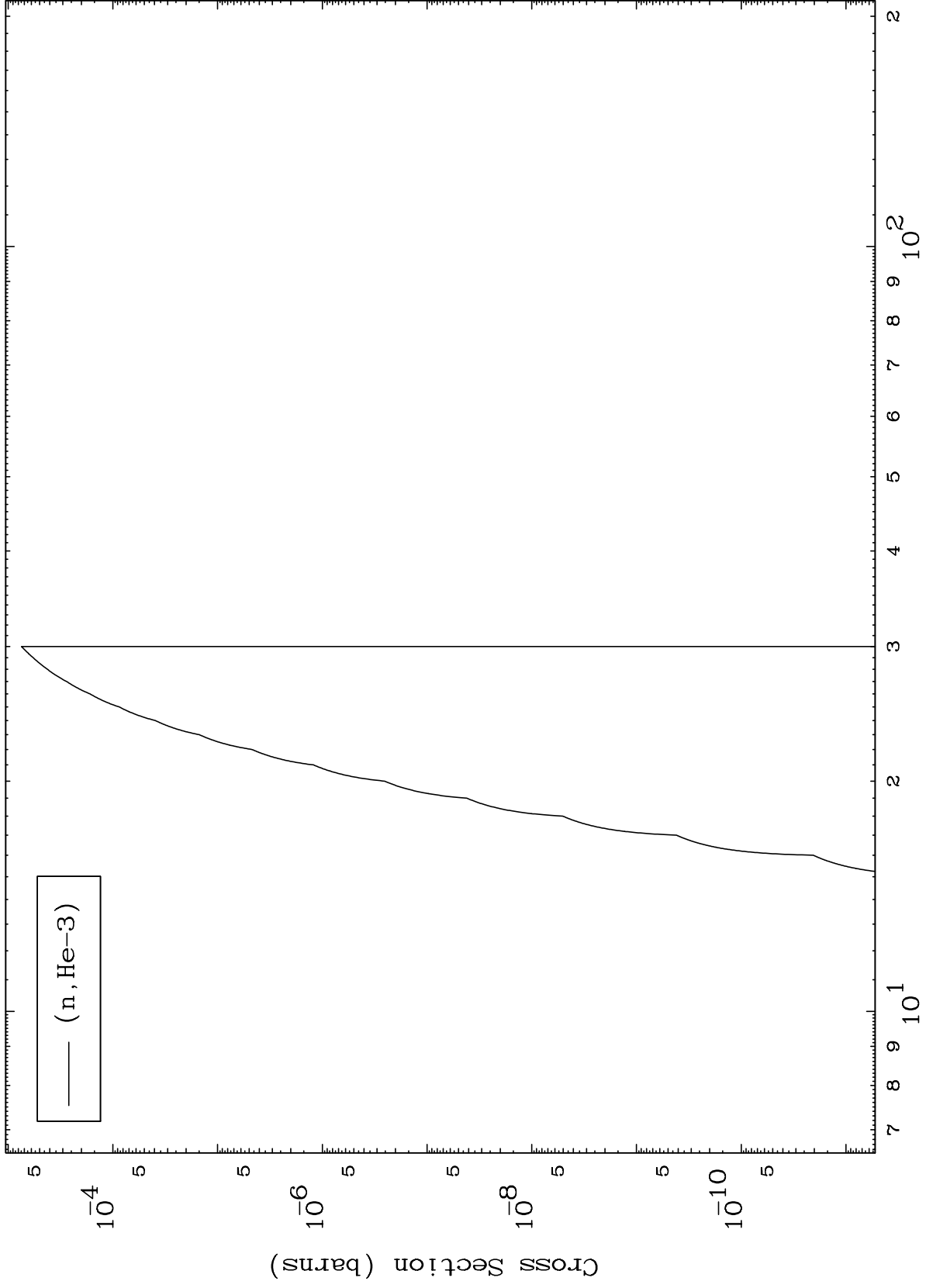
Incident Energy (MeV)

56-Ba-135m

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(n,He3) Levels  
293 Kelvin Cross Sections

56-Ba-135m



14

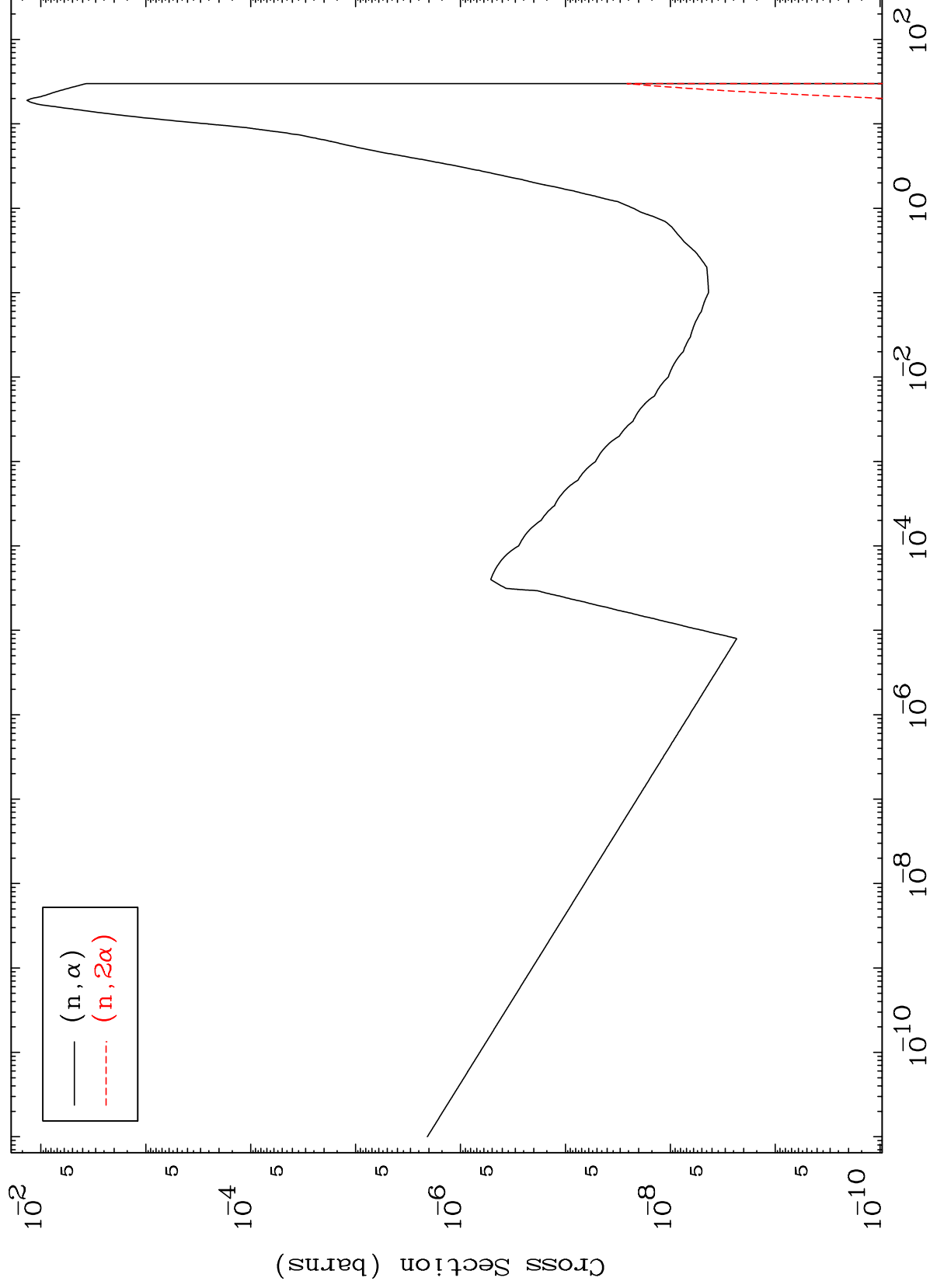
Incident Energy (MeV)

56-Ba-135m

MAT 5641

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

56-Ba-135m



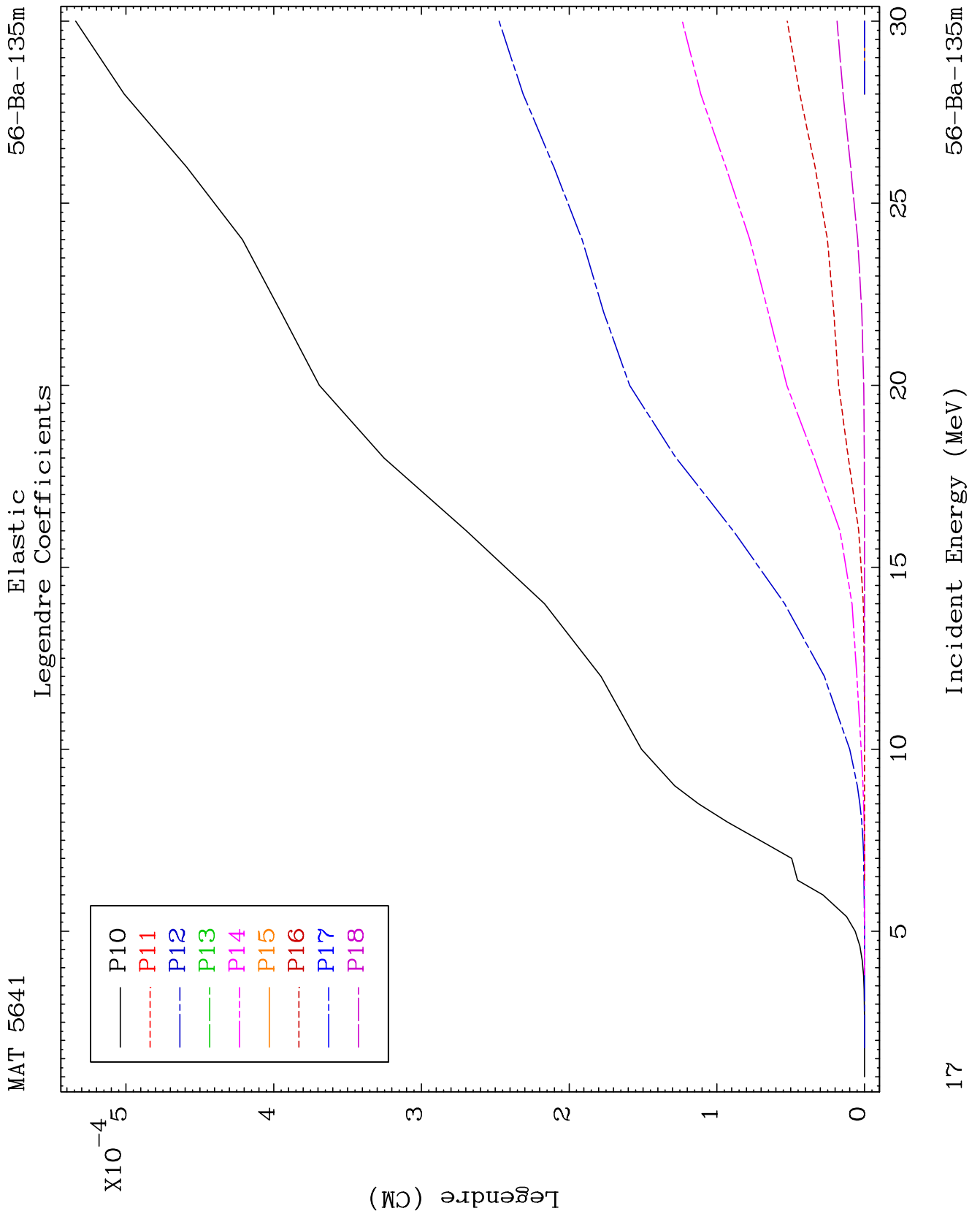
15

Incident Energy (MeV)

56-Ba-135m



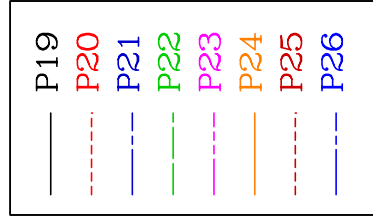




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Elastic  
Legendre Coefficients

56-Ba-135m



$\times 10^{-6}$   
1.5

Legendre (CM)

1.0

0.5

0.0

15

20

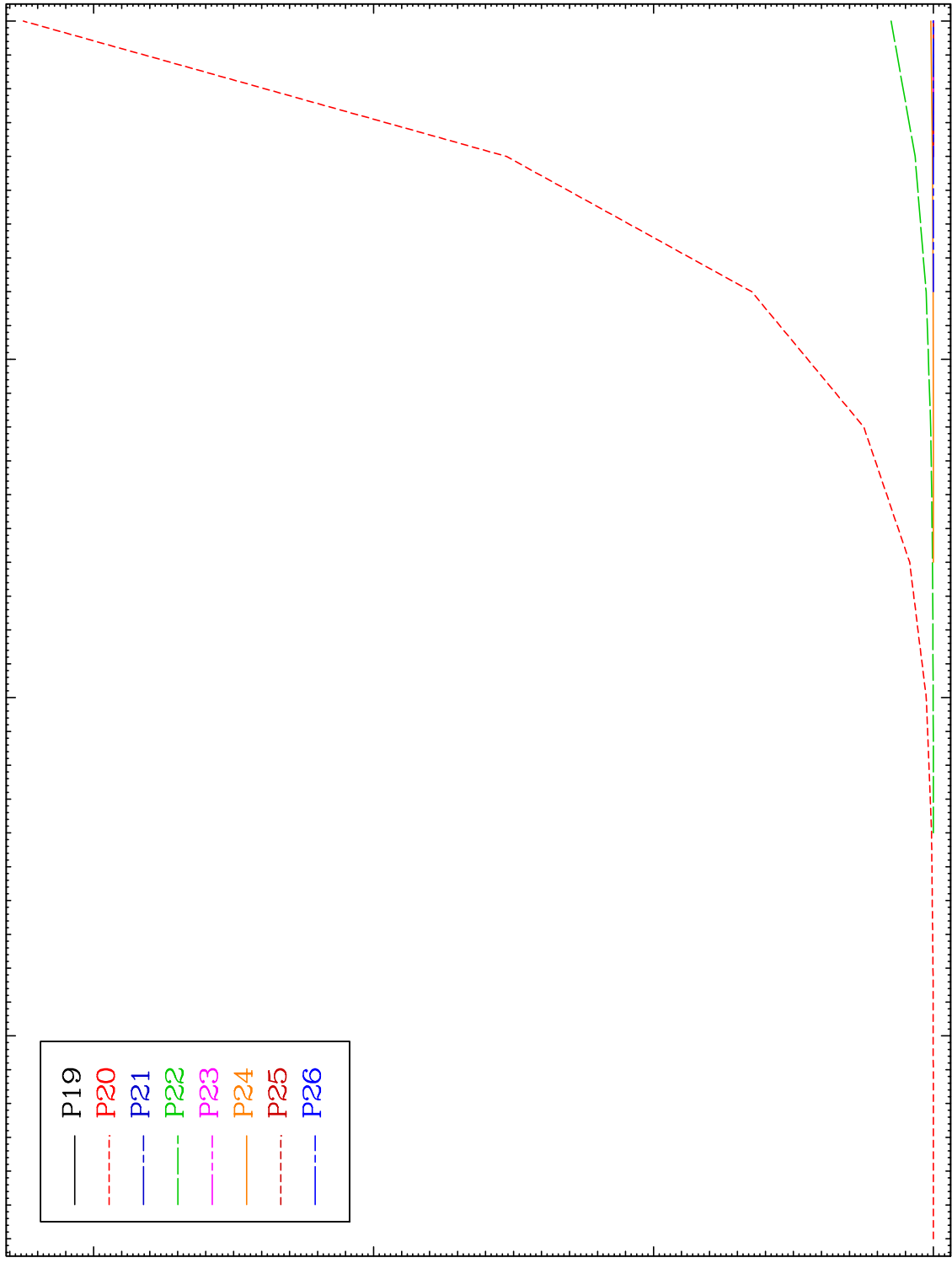
25

30

18

Incident Energy (MeV)

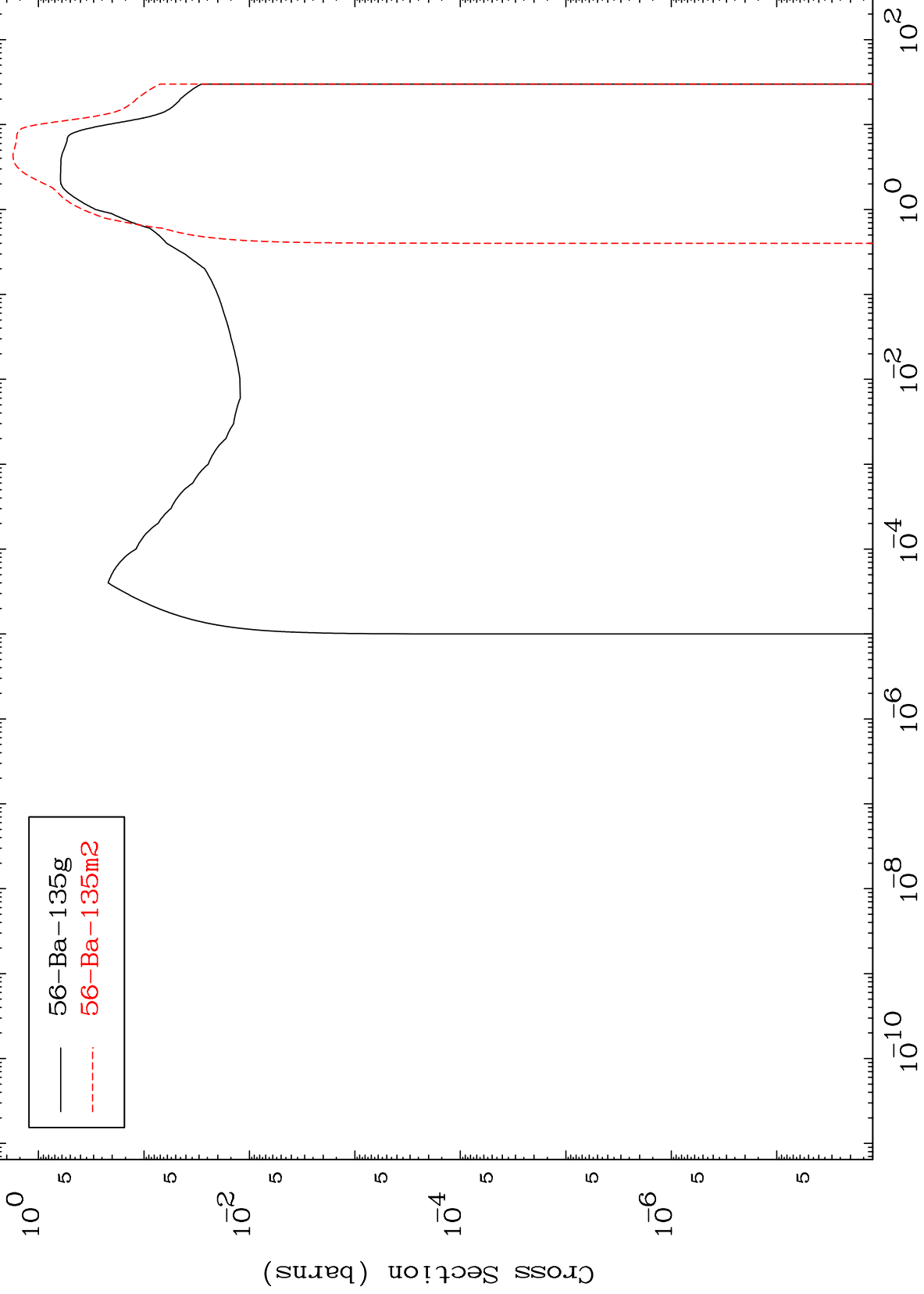
56-Ba-135m



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Inelastic  
Radionuclide Production Cross Section

56-Ba-135m



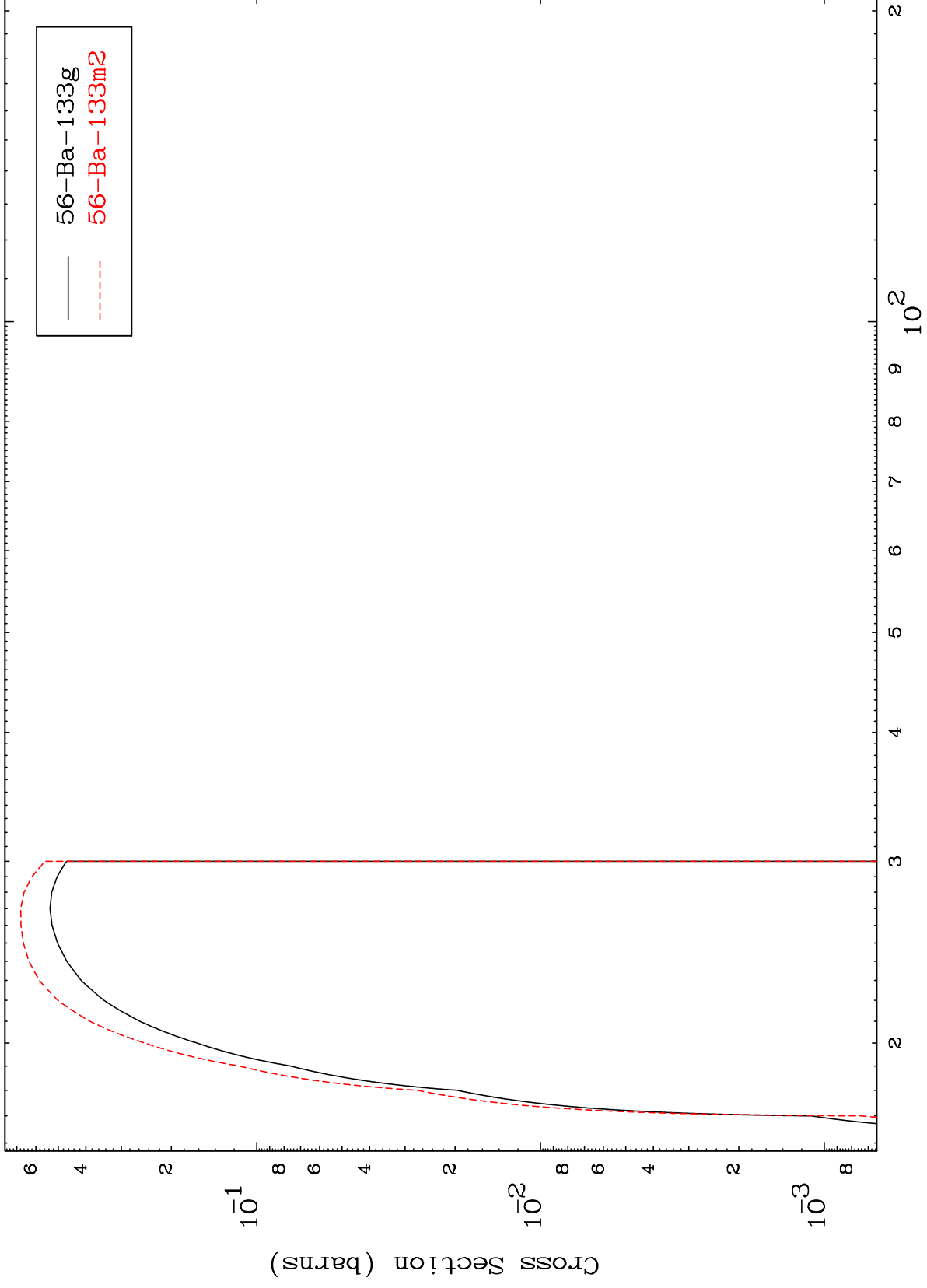
56-Ba-135g  
56-Ba-135m2

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(n,3n)

56-Ba-135m

Radionuclide Production Cross Section



20

Incident Energy (MeV)

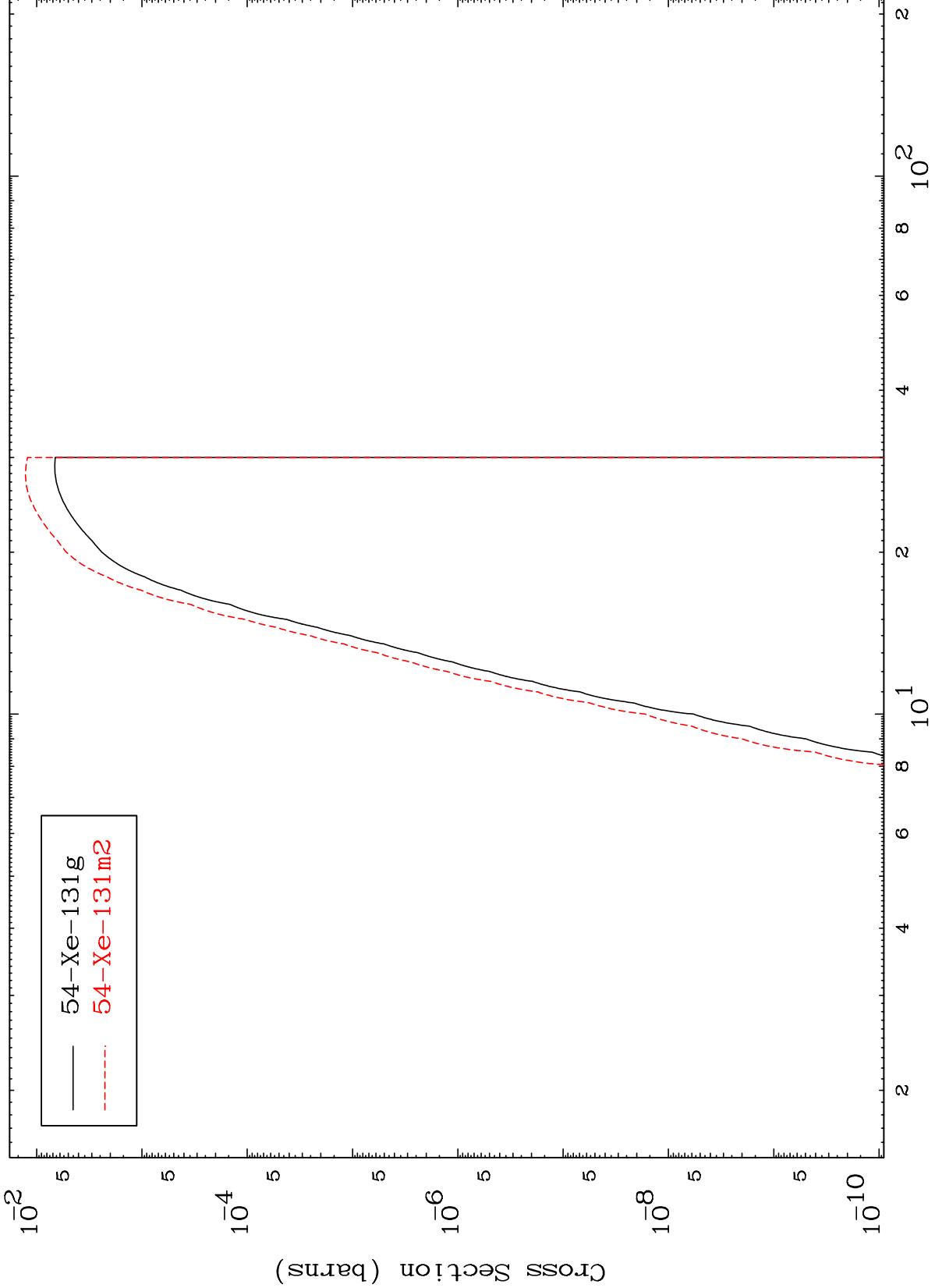
56-Ba-135m

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(n,n')  $\alpha$

56-Ba-135m

Radionuclide Production Cross Section

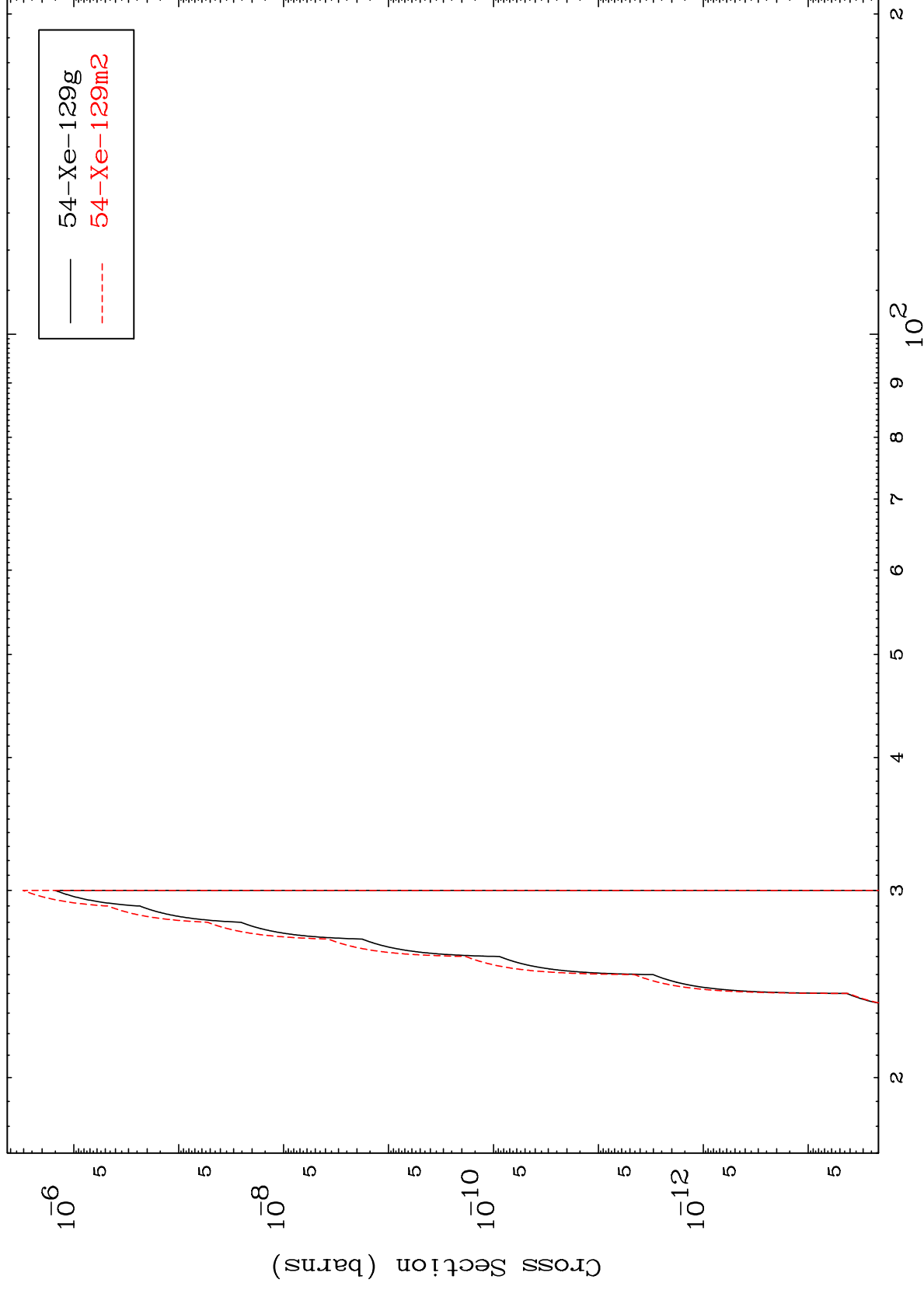


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(n,3n)  $\alpha$

56-Ba-135m

Radionuclide Production Cross Section



22

Incident Energy (MeV)

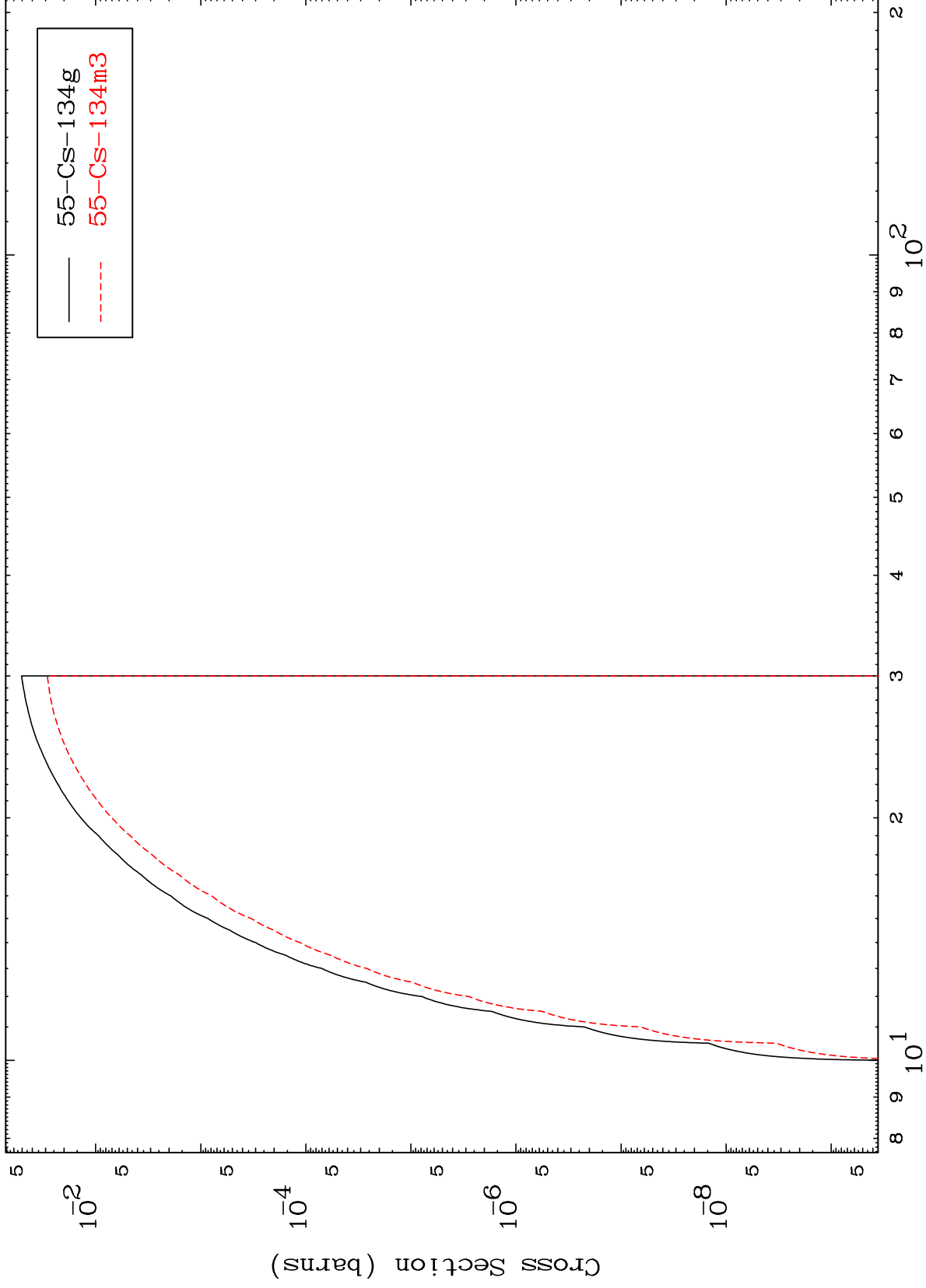
56-Ba-135m

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(n,n') p

56-Ba-135m

Radionuclide Production Cross Section



23

Incident Energy (MeV)

56-Ba-135m

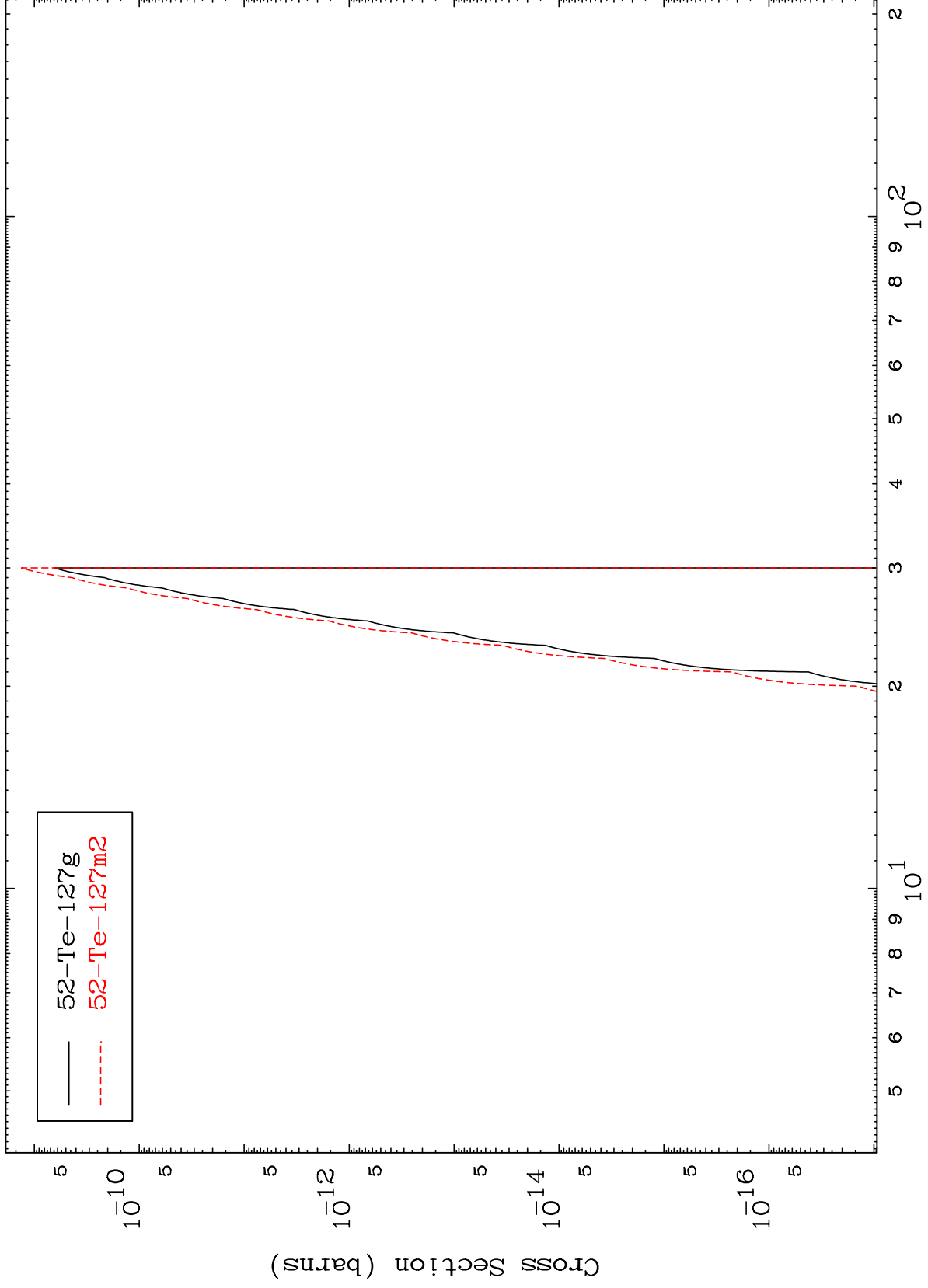


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(n,n') 2α

56-Ba-135m

Radionuclide Production Cross Section



24

Incident Energy (MeV)

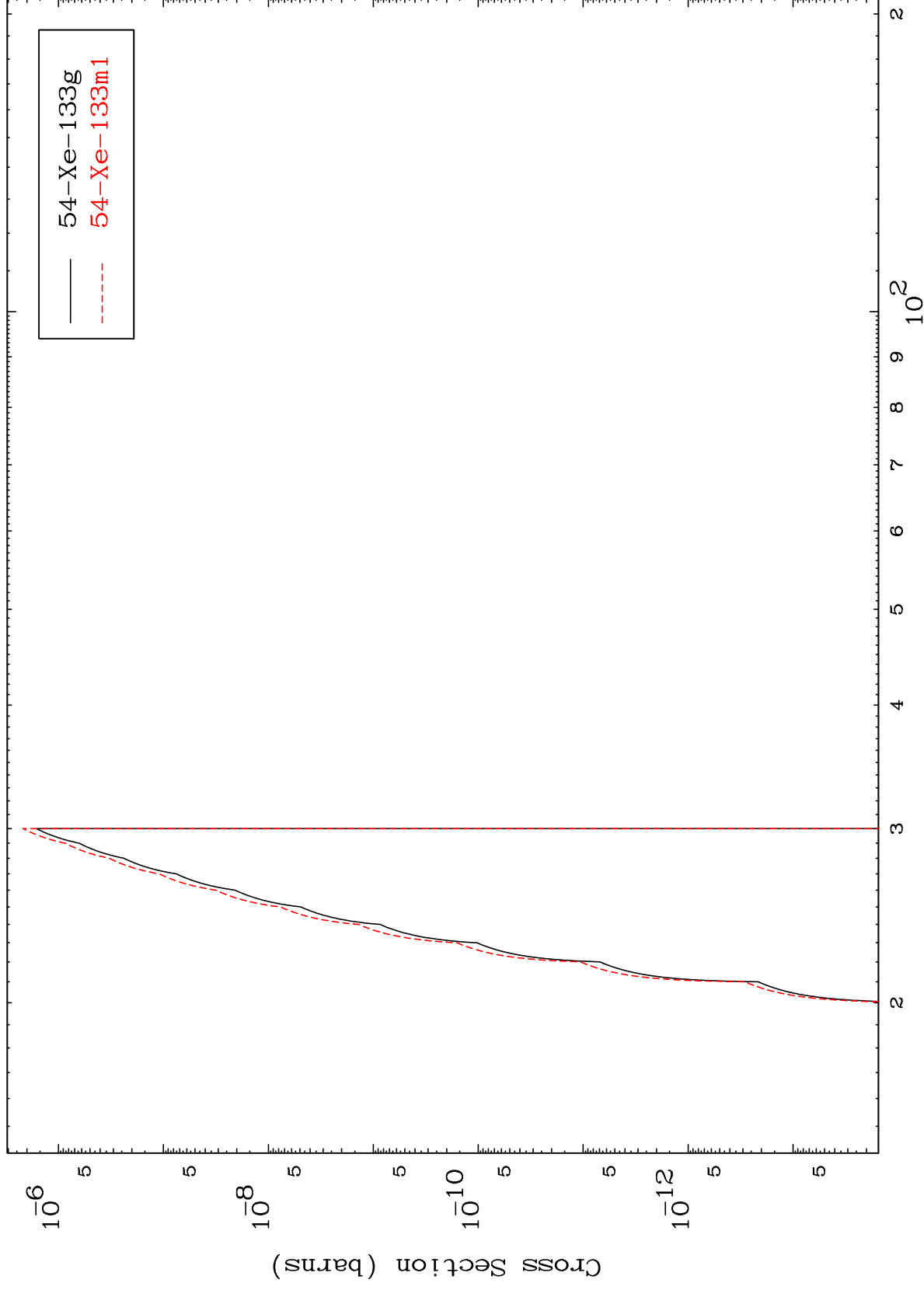
56-Ba-135m

MAT 5641

(n,2n) p

56-Ba-135m

Radionuclide Production Cross Section



25

Incident Energy (MeV)

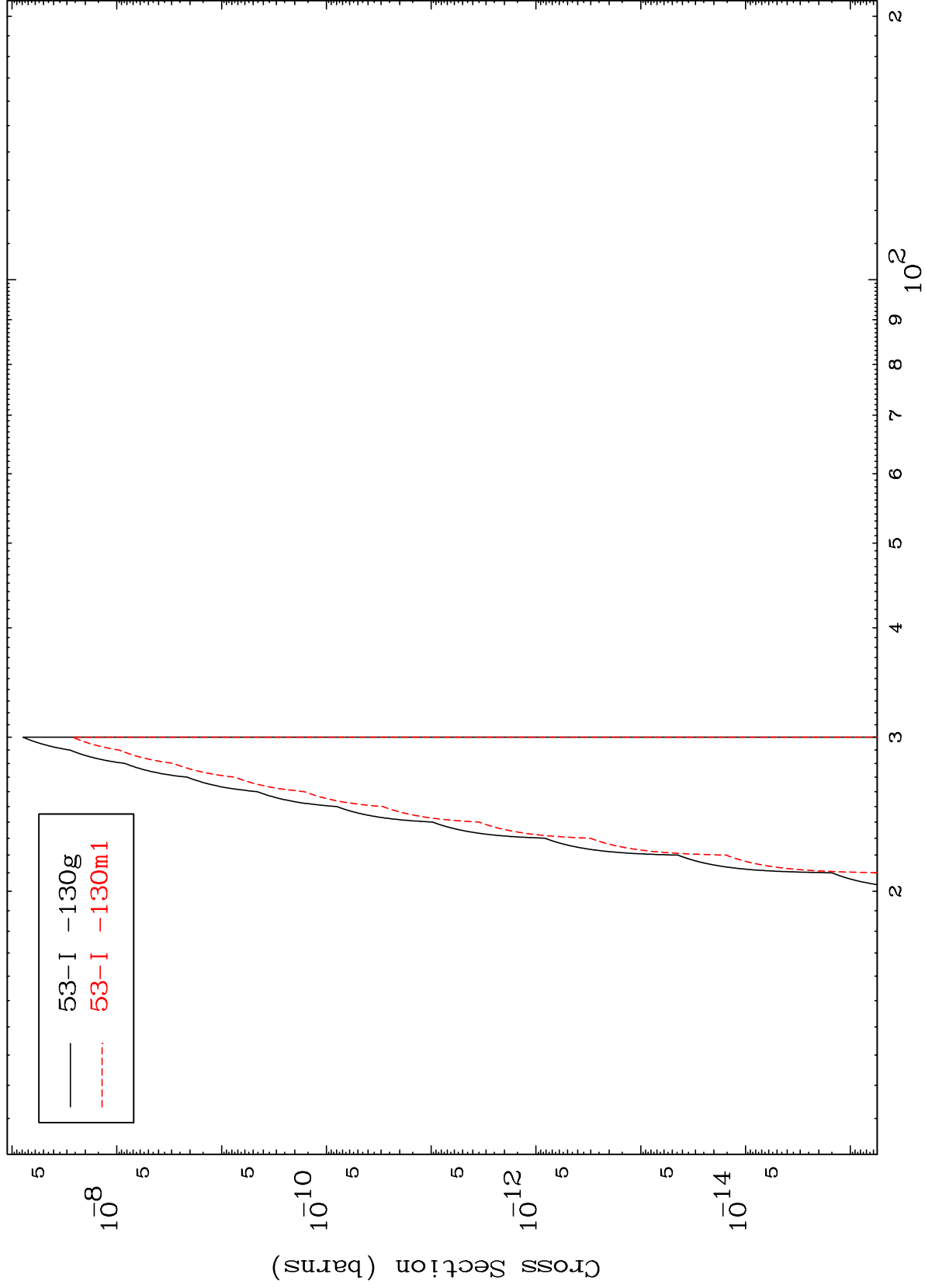
56-Ba-135m

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(n,n') p  $\alpha$

56-Ba-135m

Radionuclide Production Cross Section



26

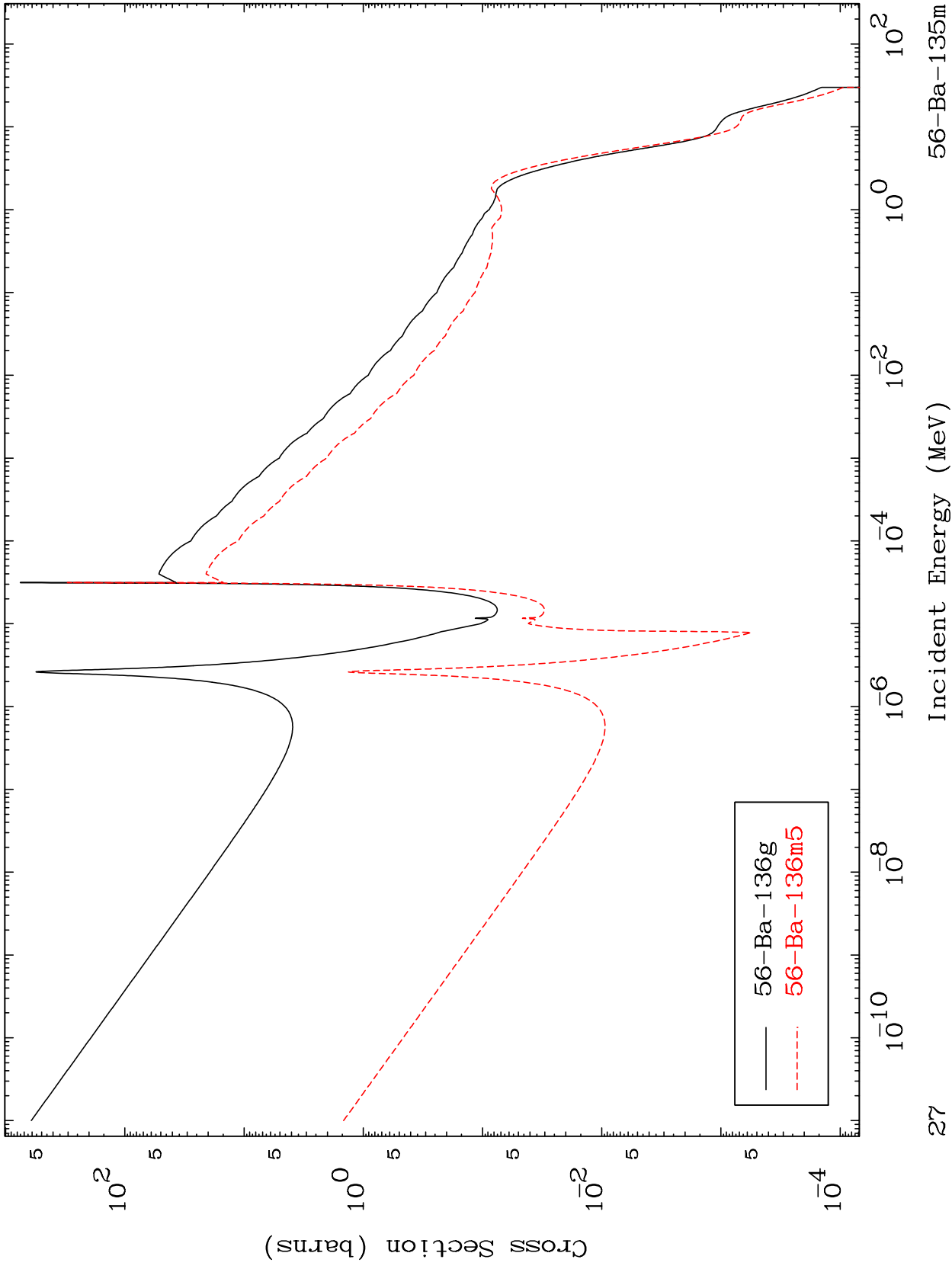
Incident Energy (MeV)

56-Ba-135m

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56-Ba-135m

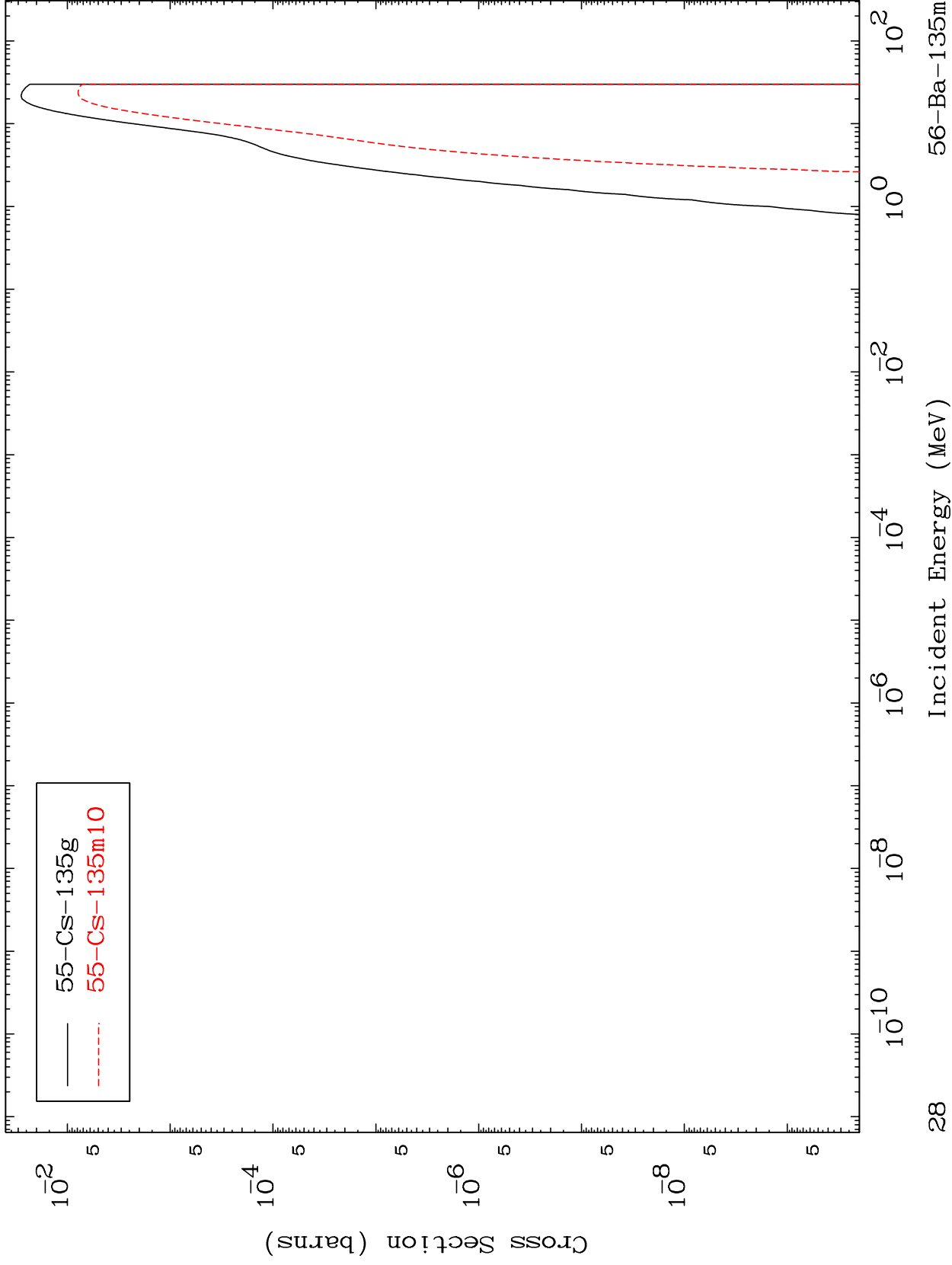
(n,  $\gamma$ )  
Radionuclide Production Cross Section



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(n,p)  
Radionuclide Production Cross Section

56-Ba-135m

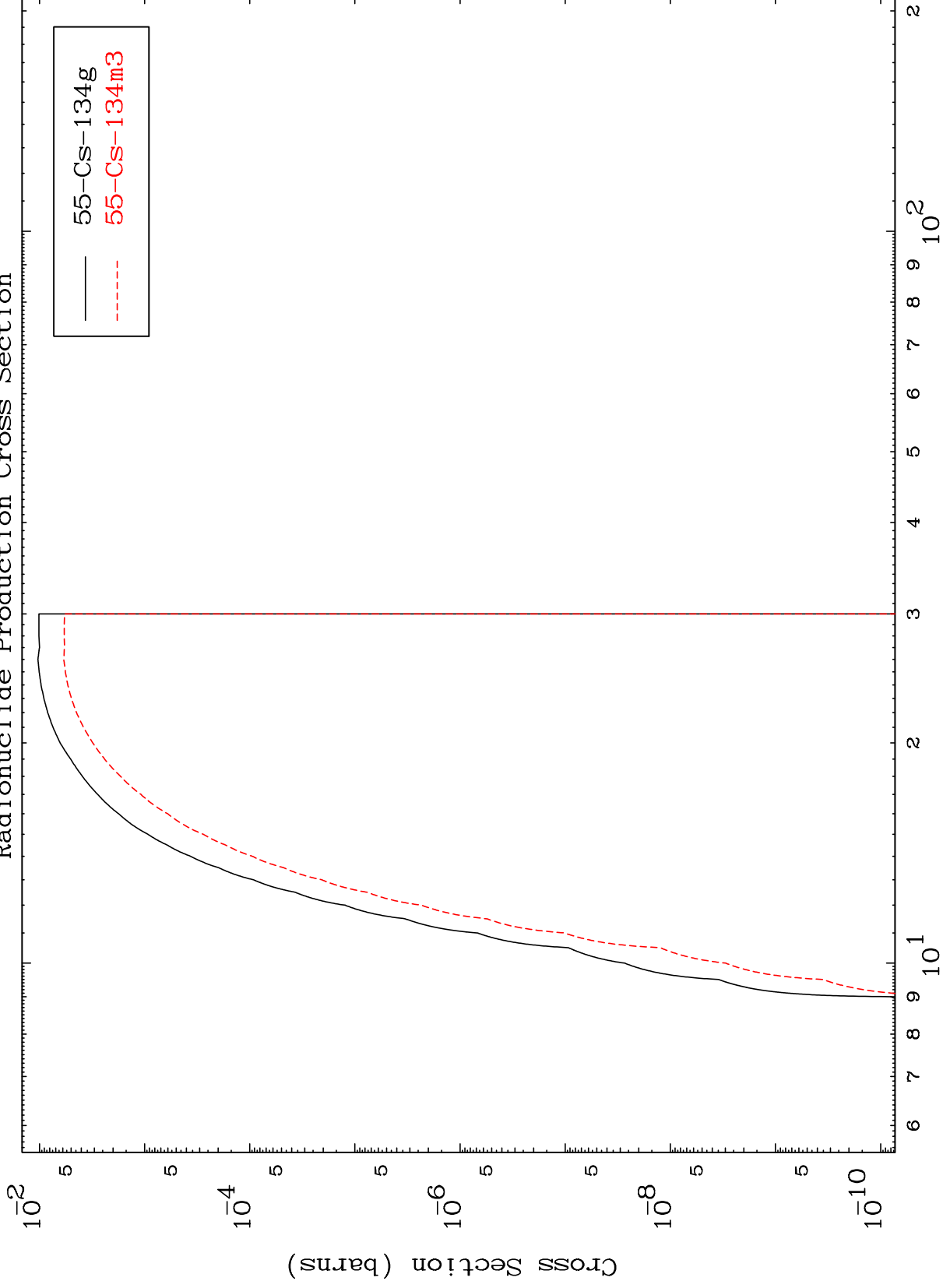


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(n,d)

56-Ba-135m

Radionuclide Production Cross Section



29

Incident Energy (MeV)

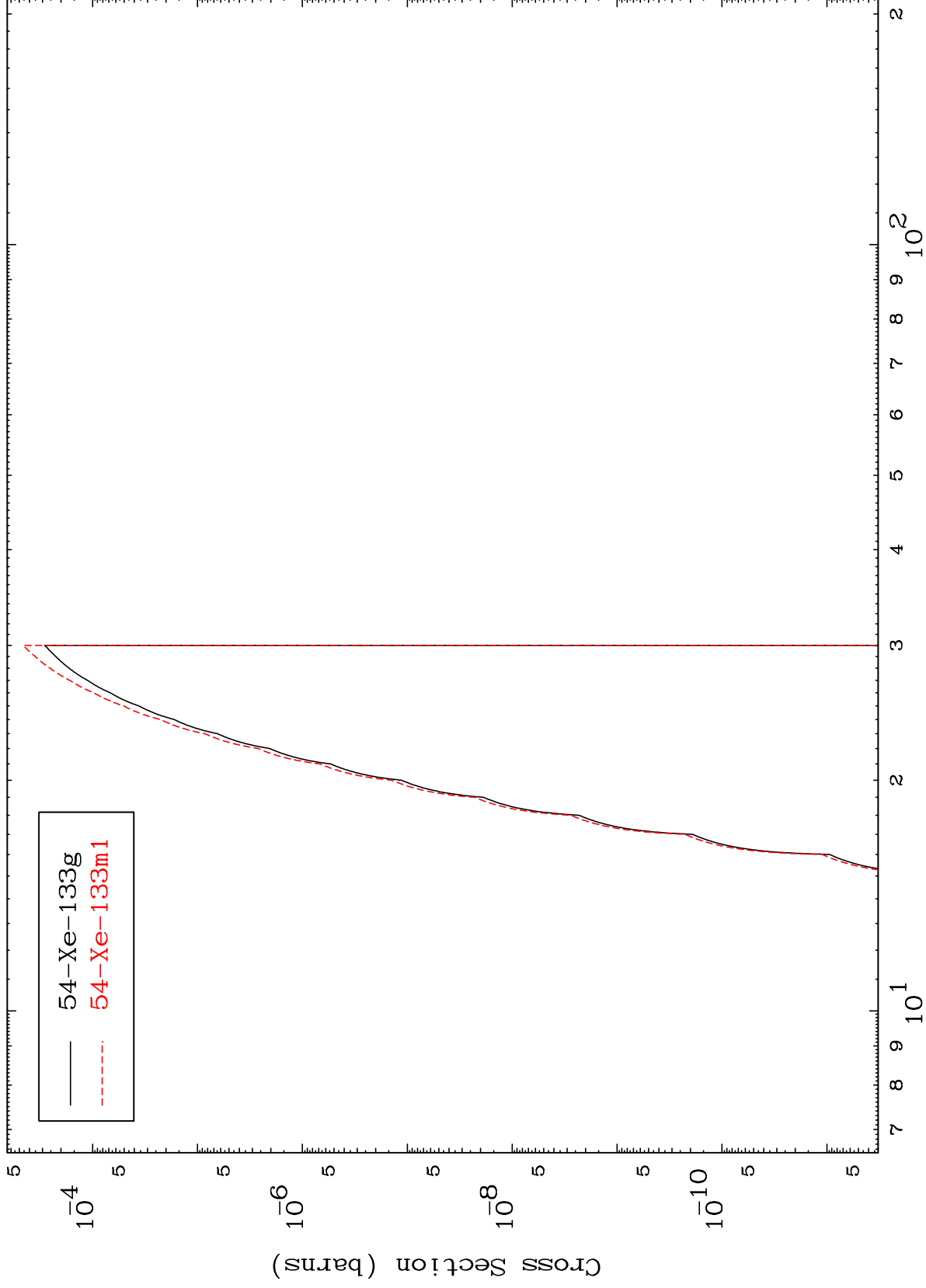
56-Ba-135m

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(n,He-3)

56-Ba-135m

Radionuclide Production Cross Section



30

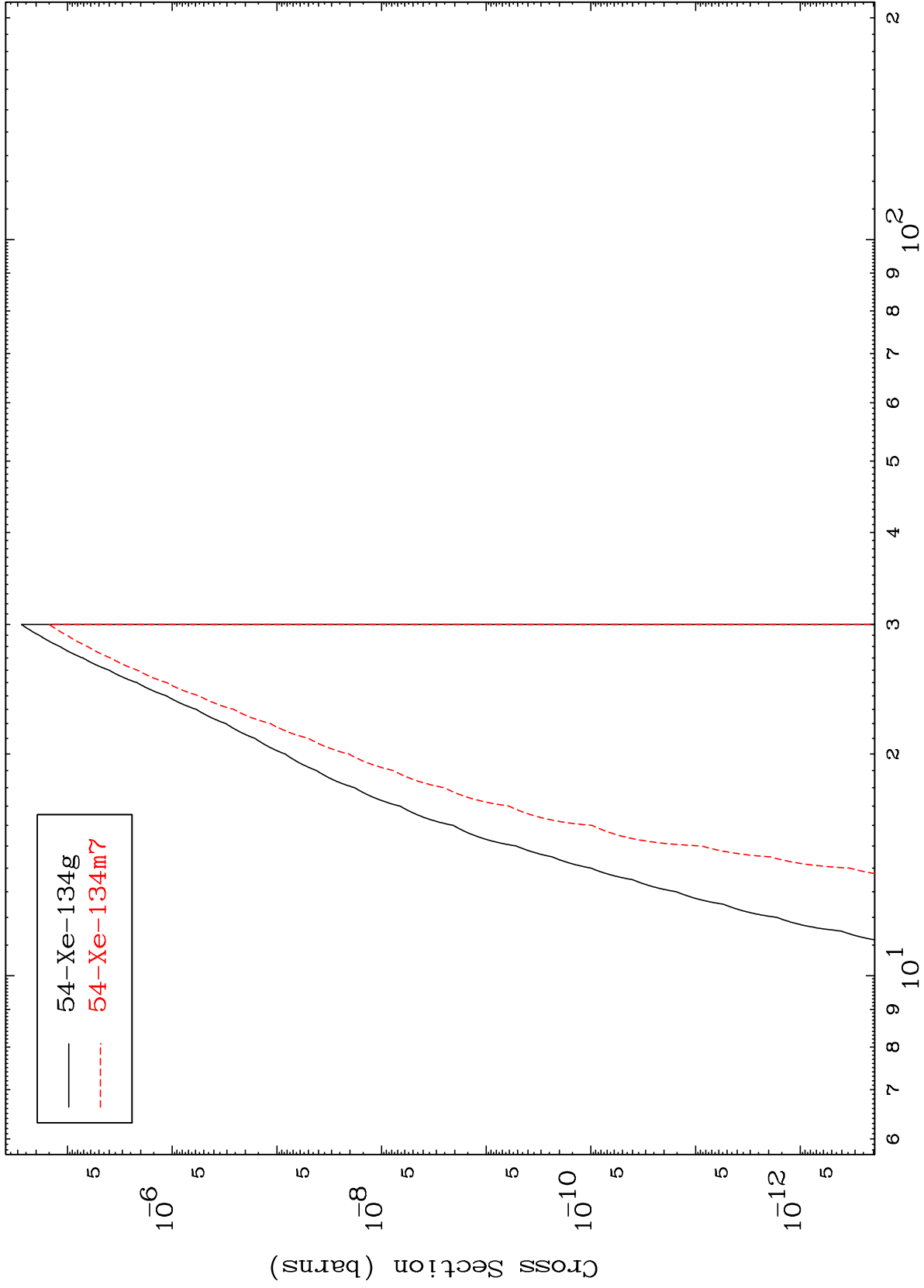
Incident Energy (MeV)

56-Ba-135m

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56-Ba-135m

(n,2p)  
Radionuclide Production Cross Section



56-Ba-135m

Incident Energy (MeV)

31

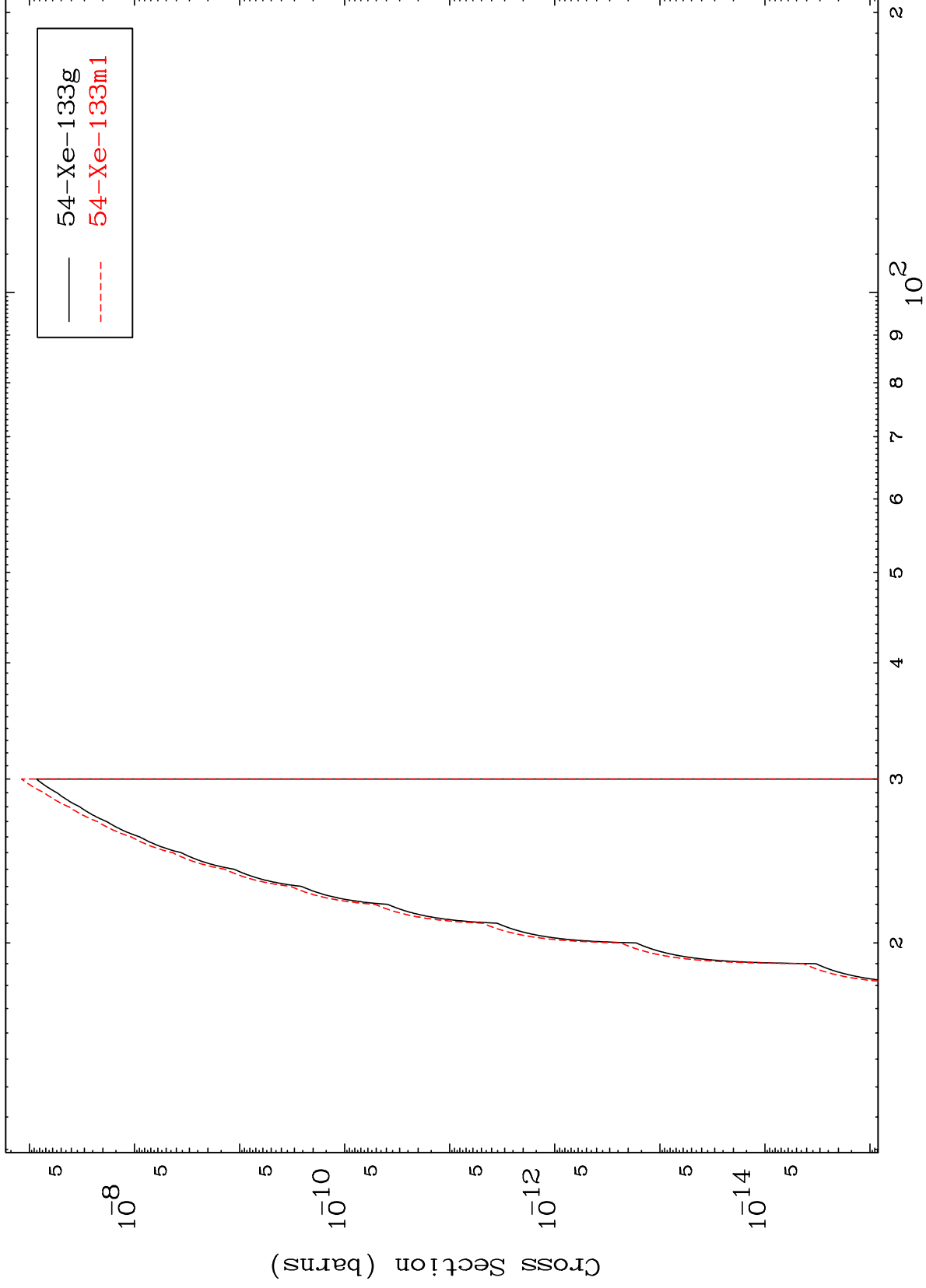


MAT 5641

(n,p) d

56-Ba-135m

Radionuclide Production Cross Section



32

Incident Energy (MeV)

56-Ba-135m

