

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

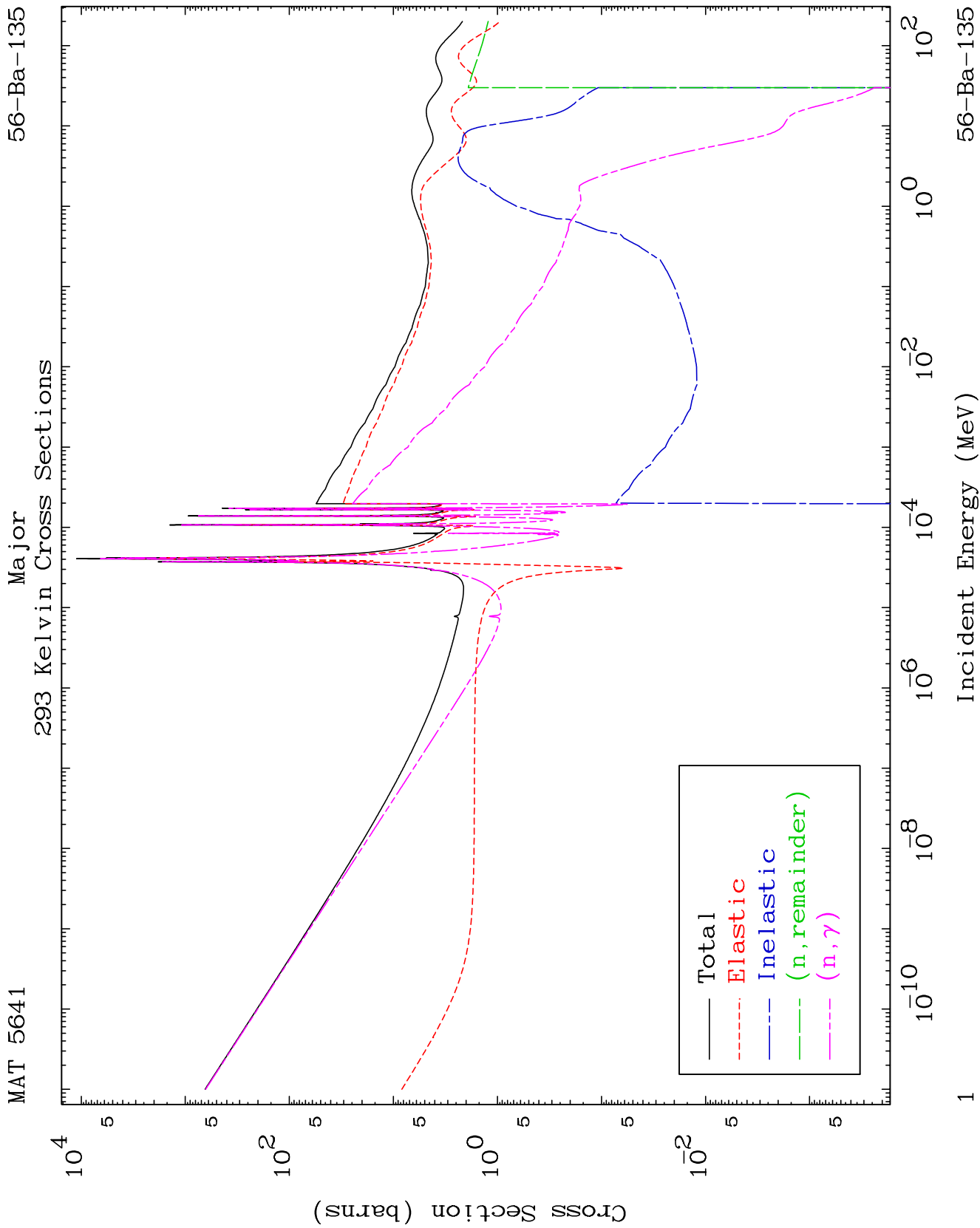
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Web:redcullen1.net/HOMEPAGE.NEW

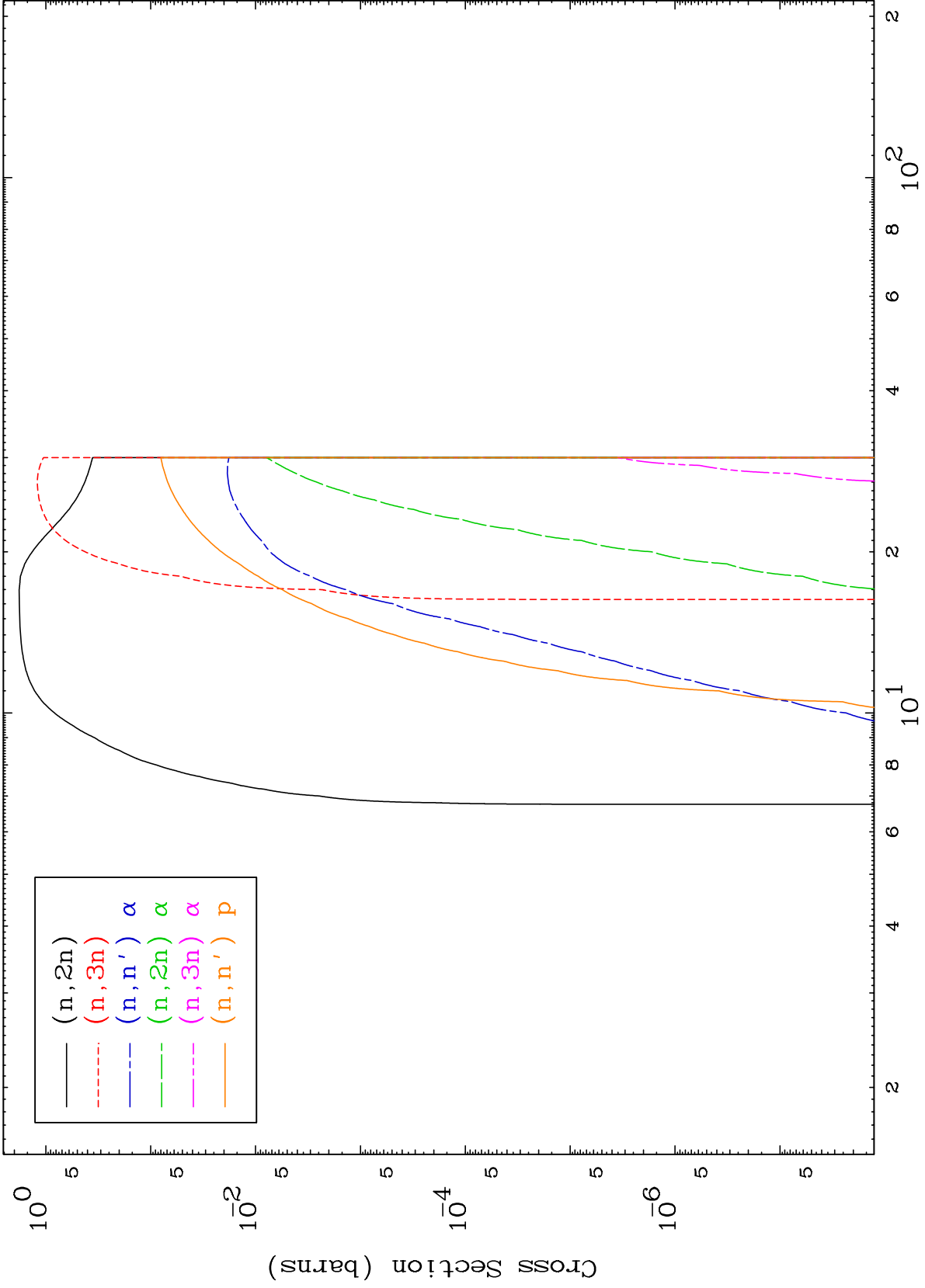
Press Mouse Button to Start



MAT 5641

Neutron Production  
293 Kelvin Cross Sections

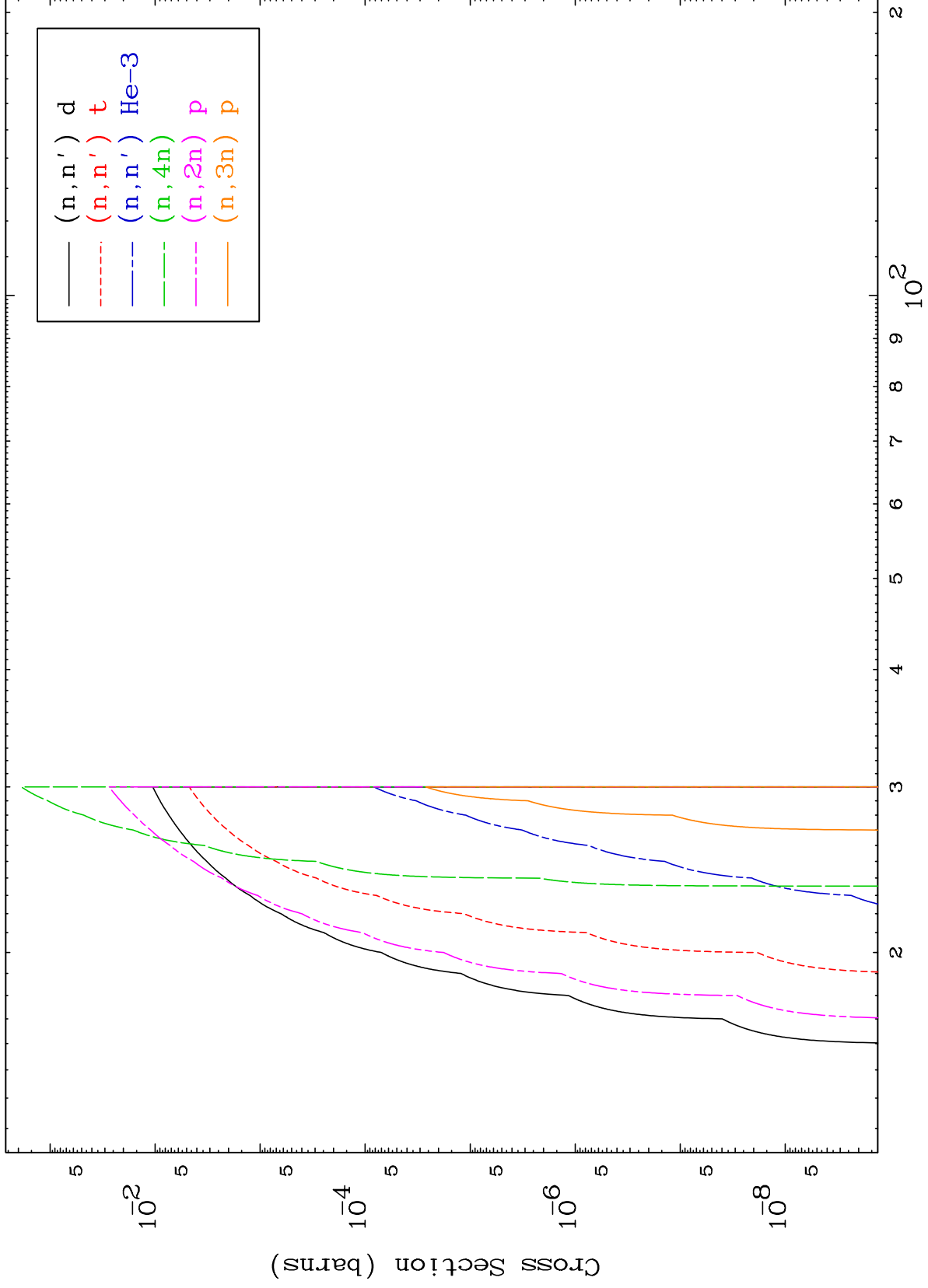
56-Ba-135



2

Incident Energy (MeV)

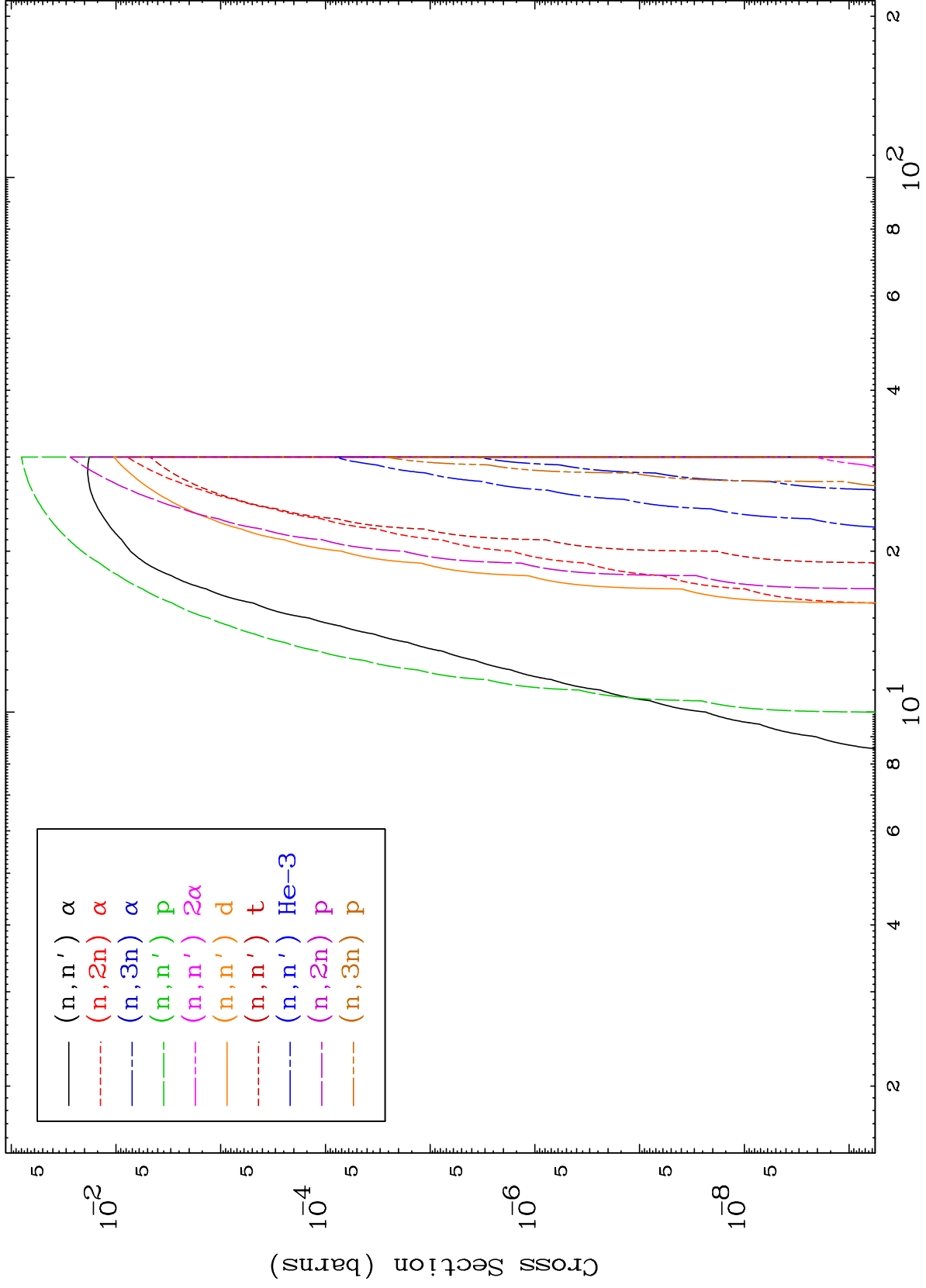
56-Ba-135



MAT 5641

Charged Particle  
293 Kelvin Cross Sections

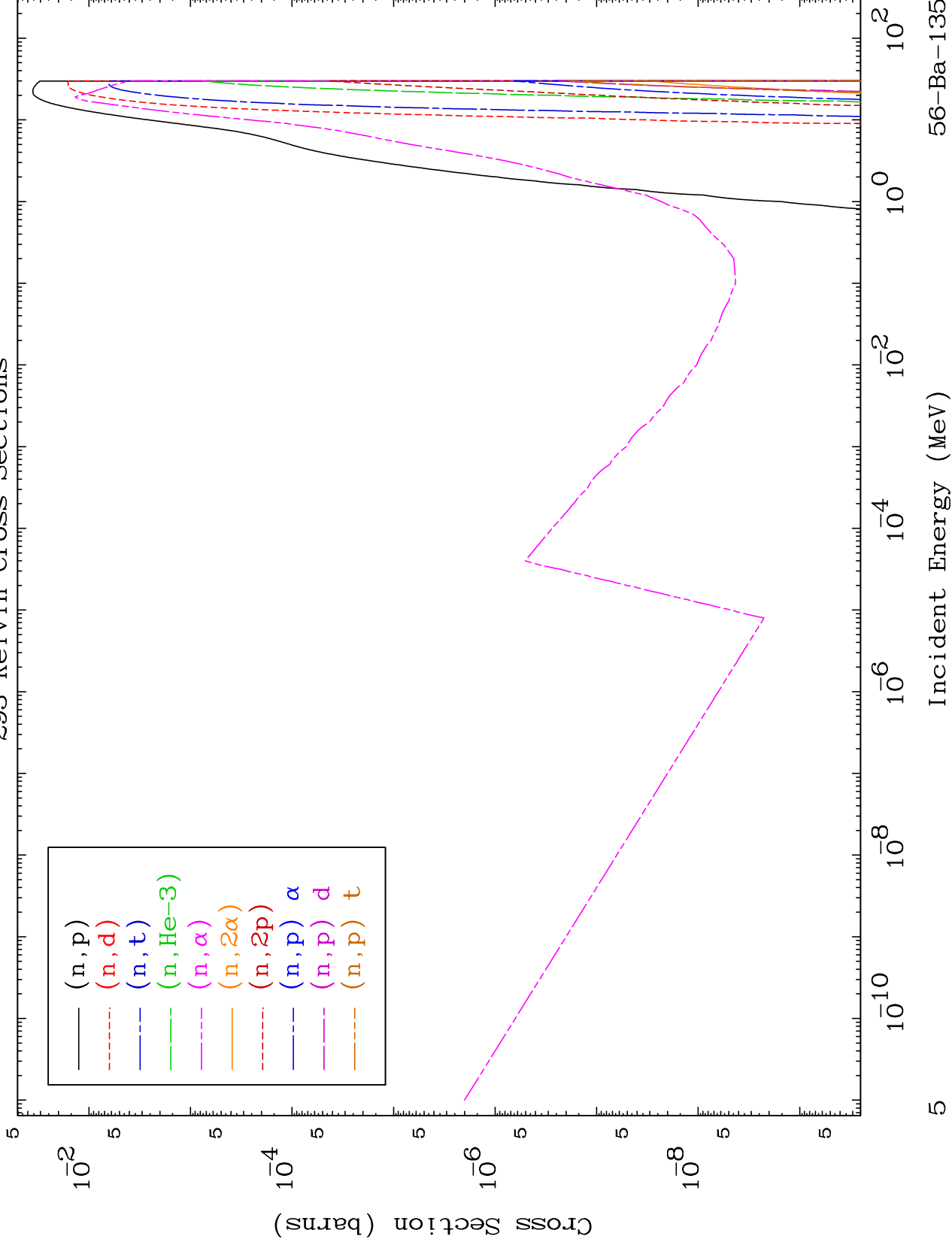
56-Ba-135



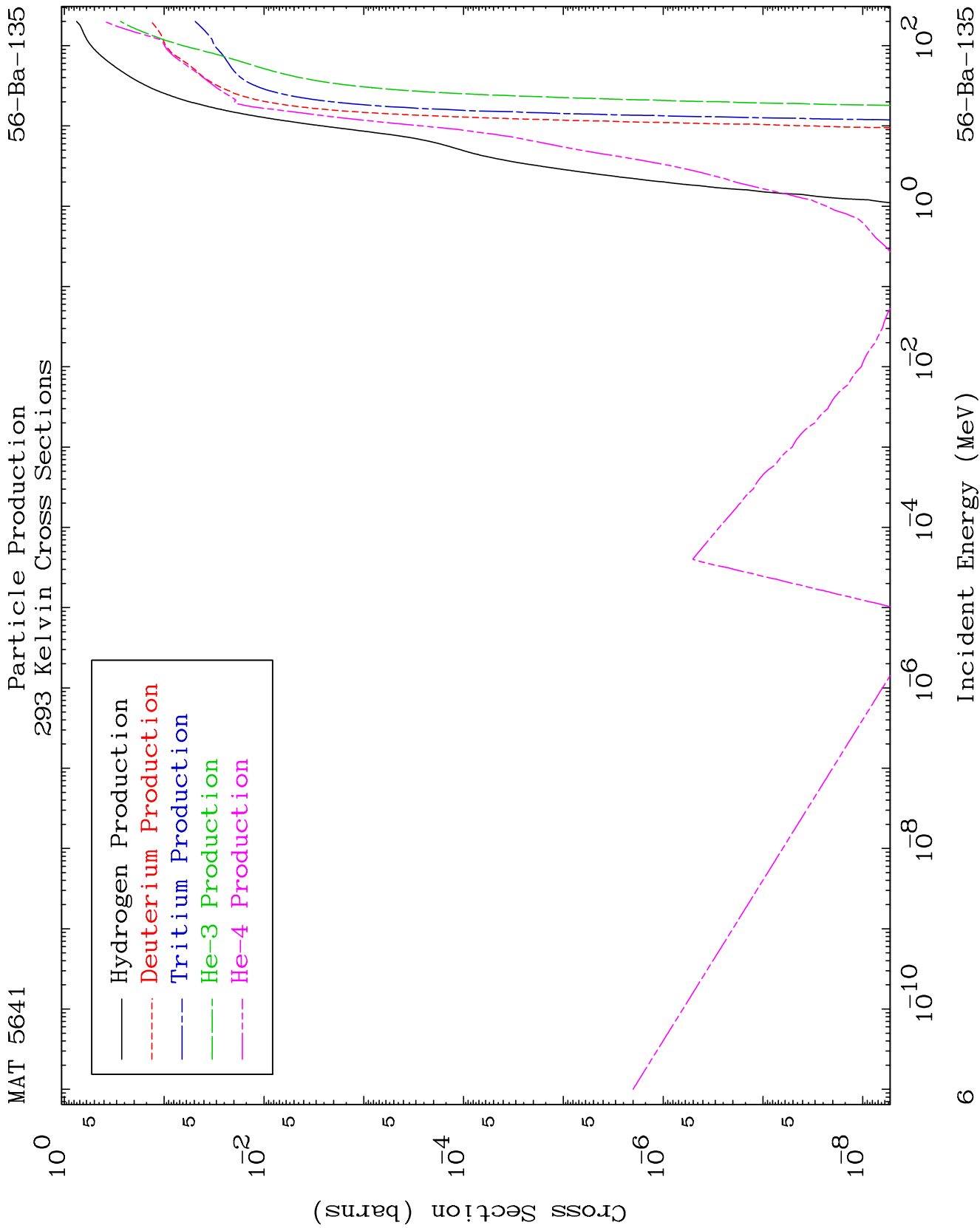
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Charged Particle  
293 Kelvin Cross Sections

56-Ba-135



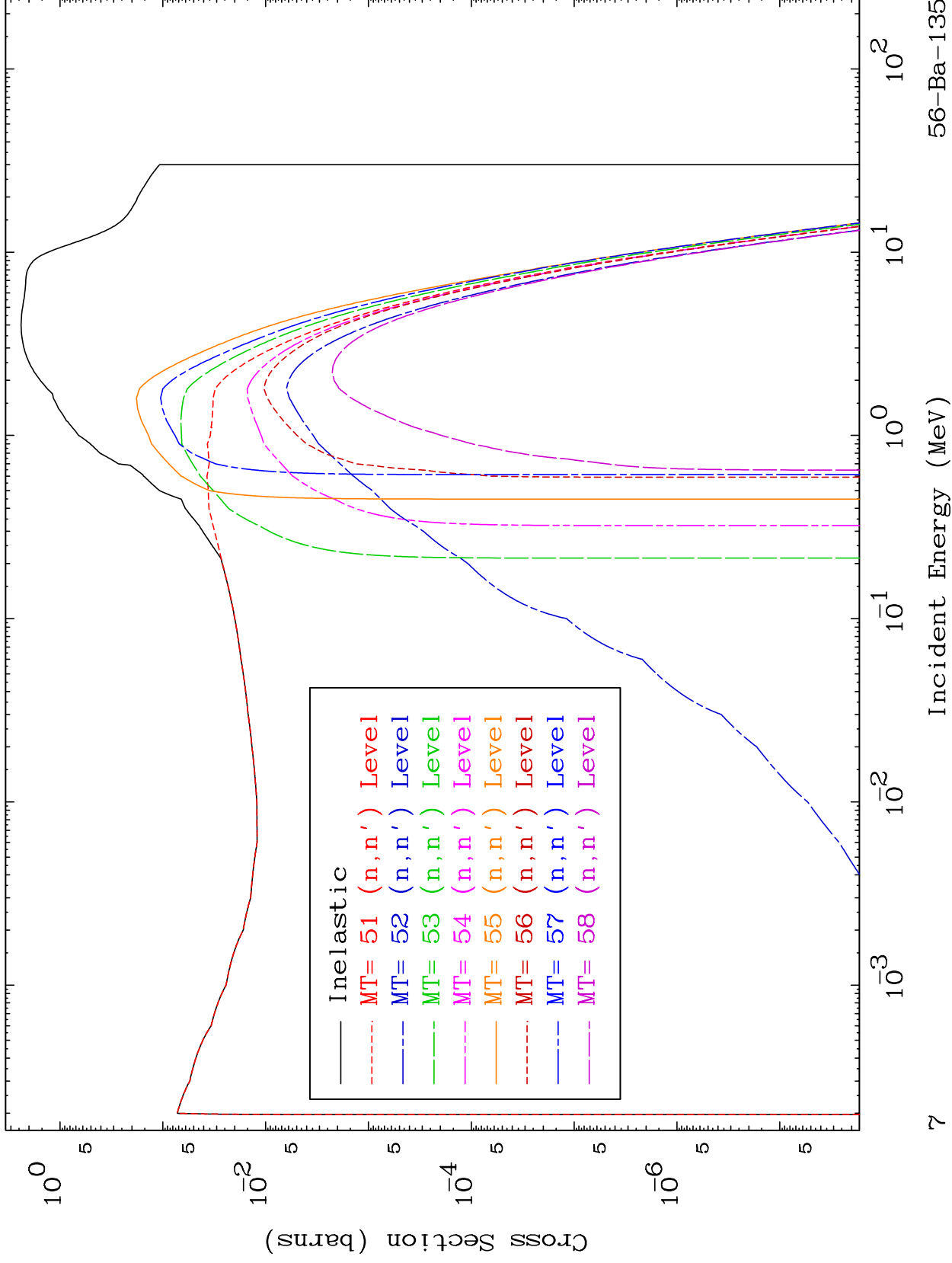
5



MAT 5641

(n,n') Level  
293 Kelvin Cross Sections

56-Ba-135

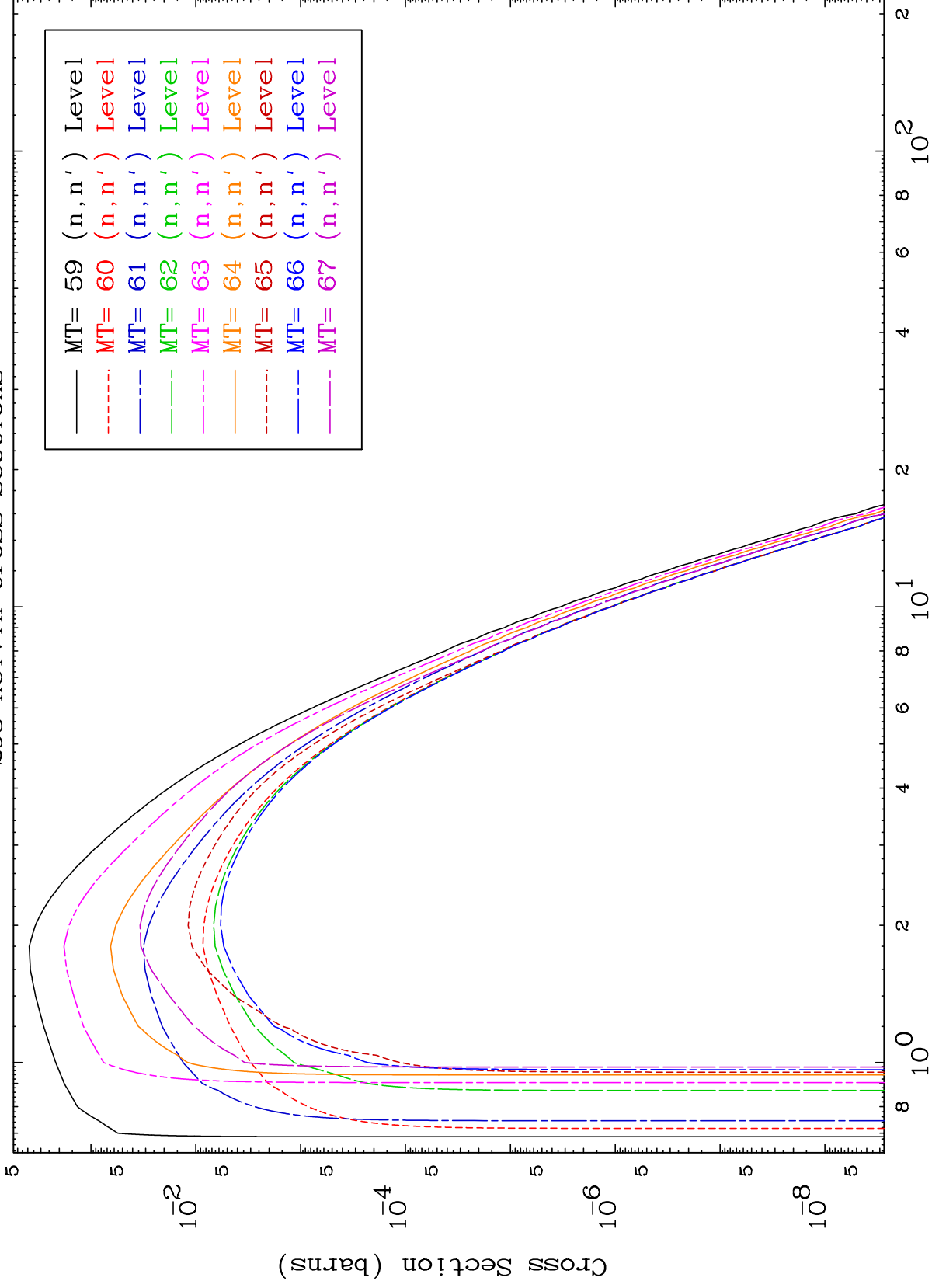


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(n,n') Level

56-Ba-135

293 Kelvin Cross Sections



8

Incident Energy (MeV)

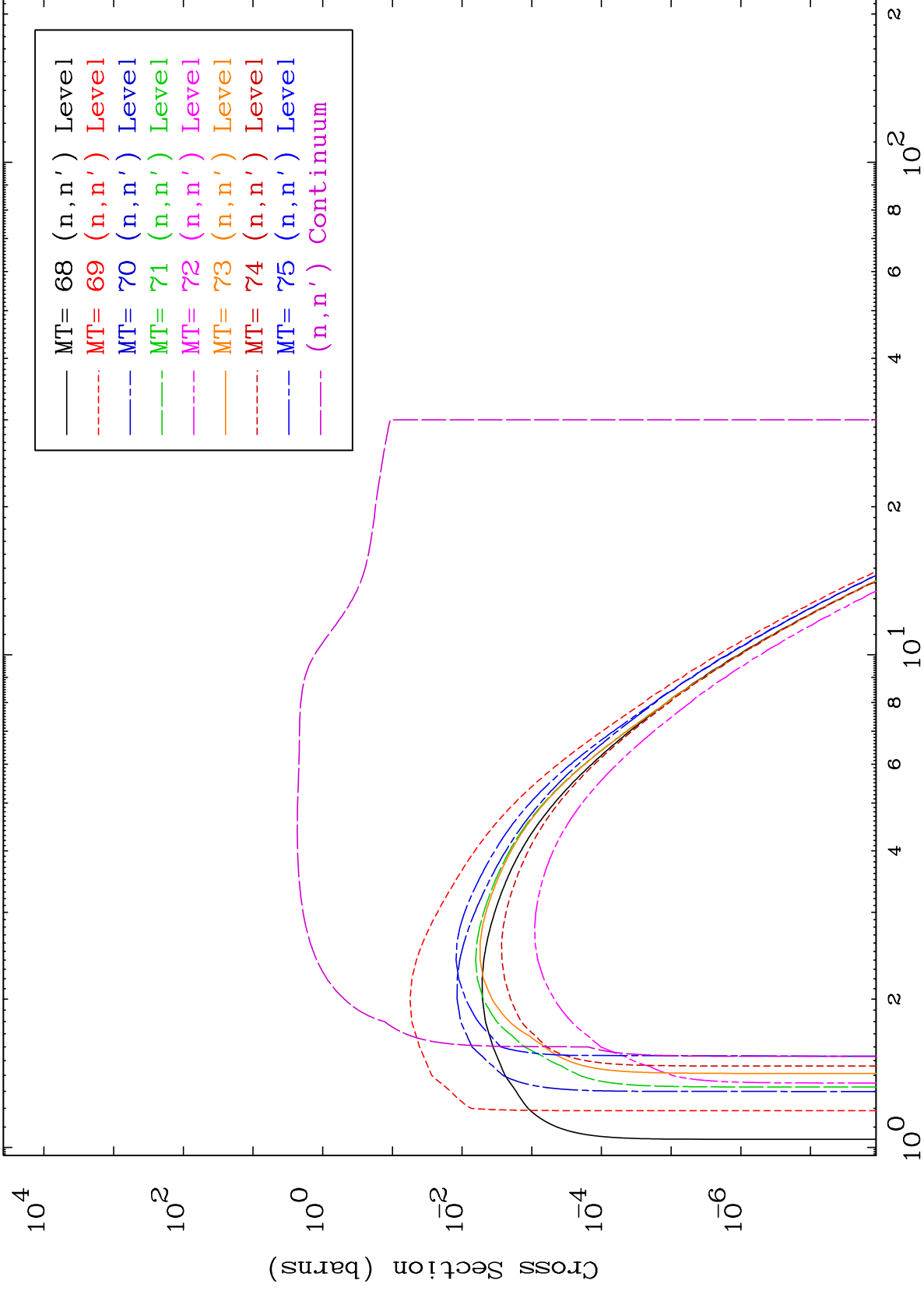
56-Ba-135

MAT 5641

(n,n') Level

56-Ba-135

293 Kelvin Cross Sections



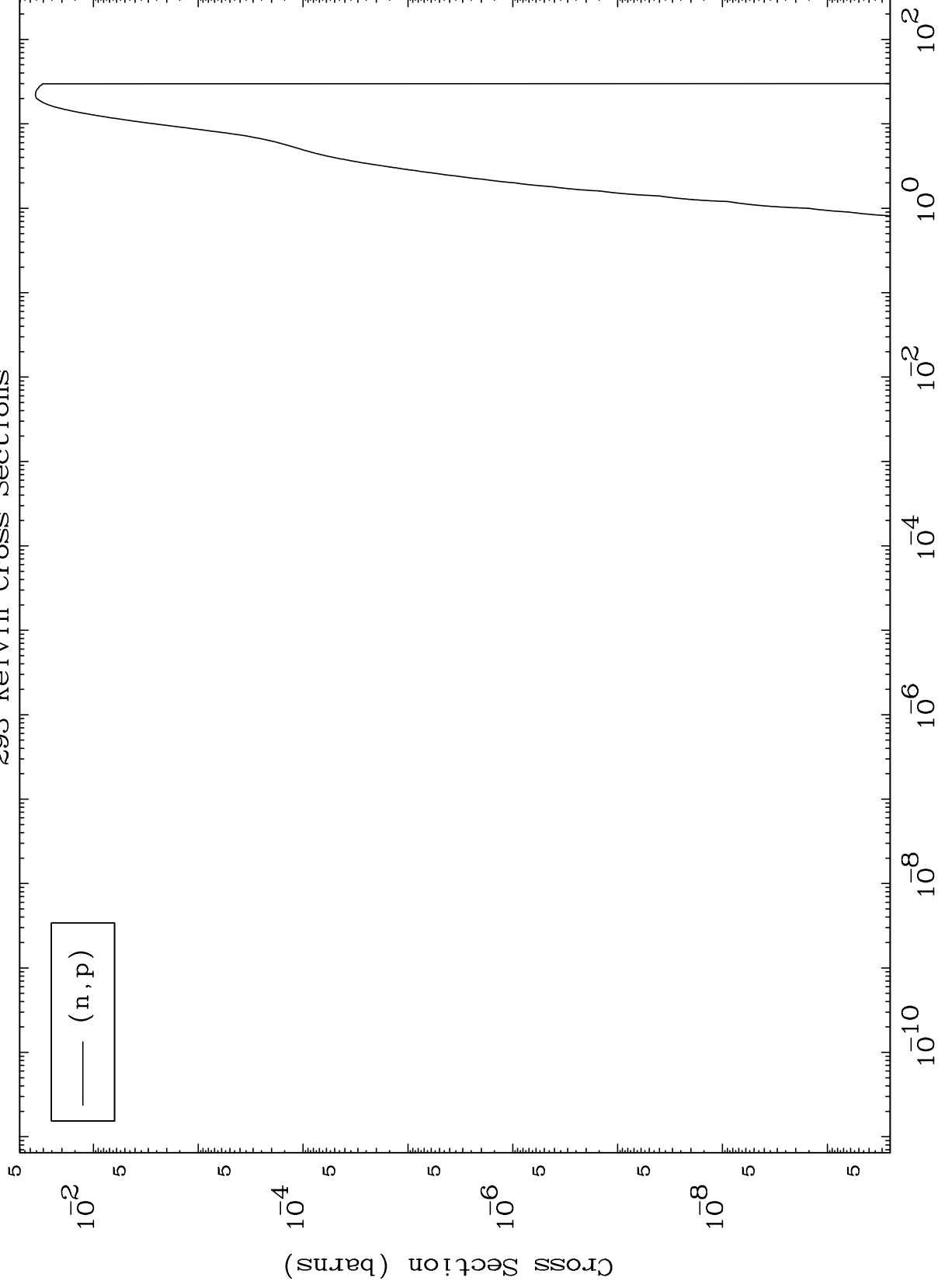
Incident Energy (MeV)

56-Ba-135

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(n,p) Levels  
293 Kelvin Cross Sections

56-Ba-135



10

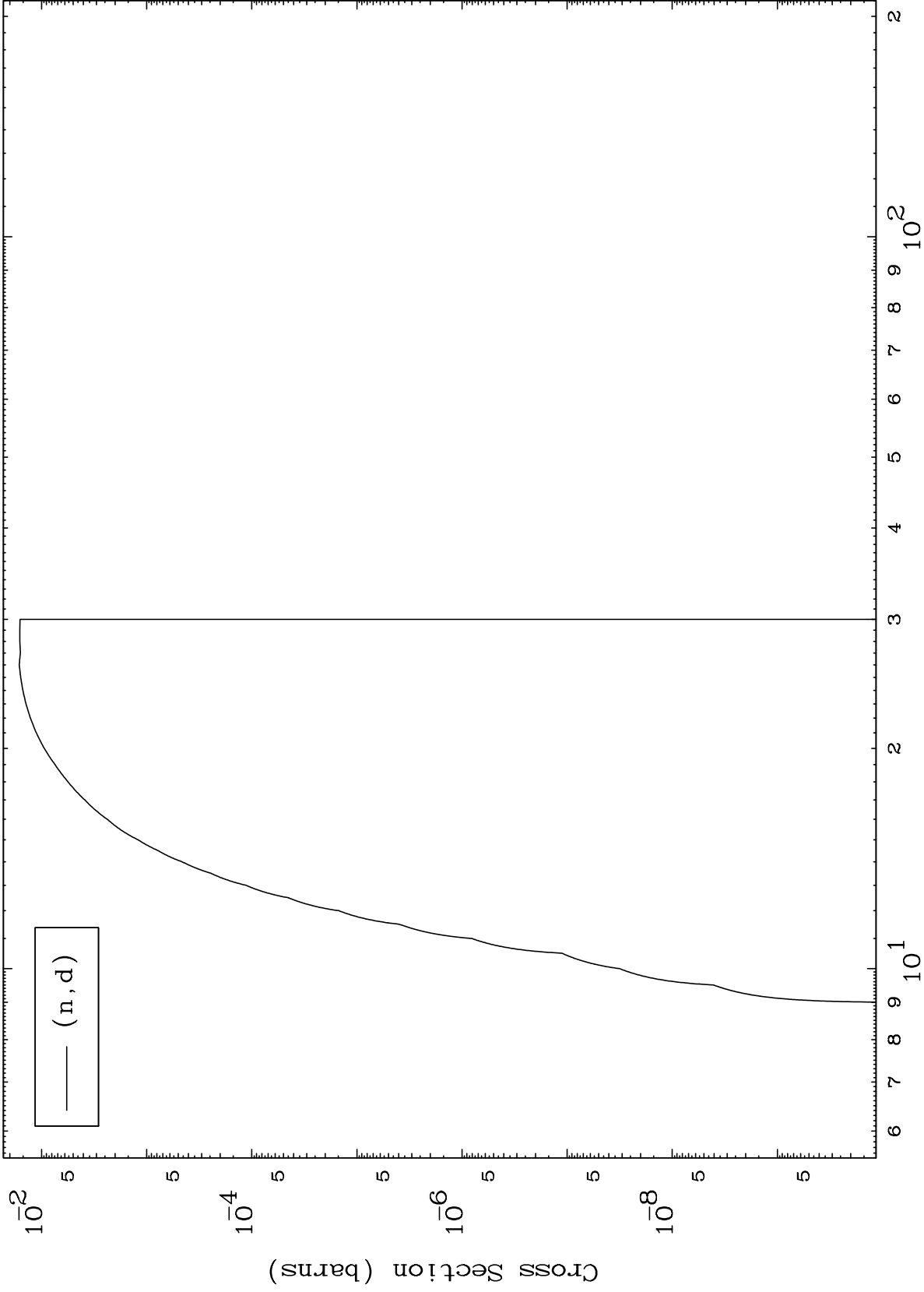
Incident Energy (MeV)

56-Ba-135

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(n,d) Levels  
293 Kelvin Cross Sections

56-Ba-135



11

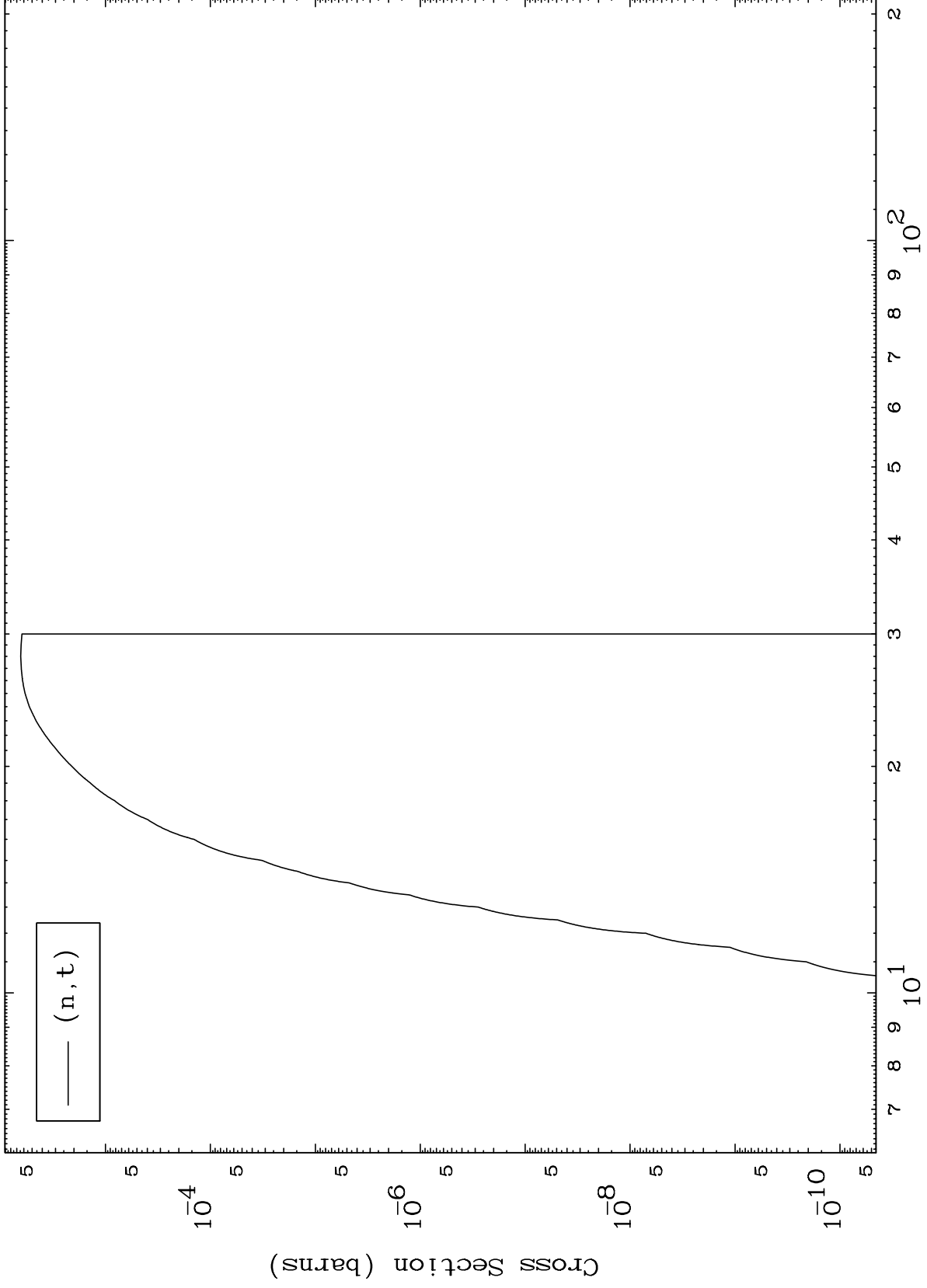
Incident Energy (MeV)

56-Ba-135

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(n,t) Levels  
293 Kelvin Cross Sections

56-Ba-135



12

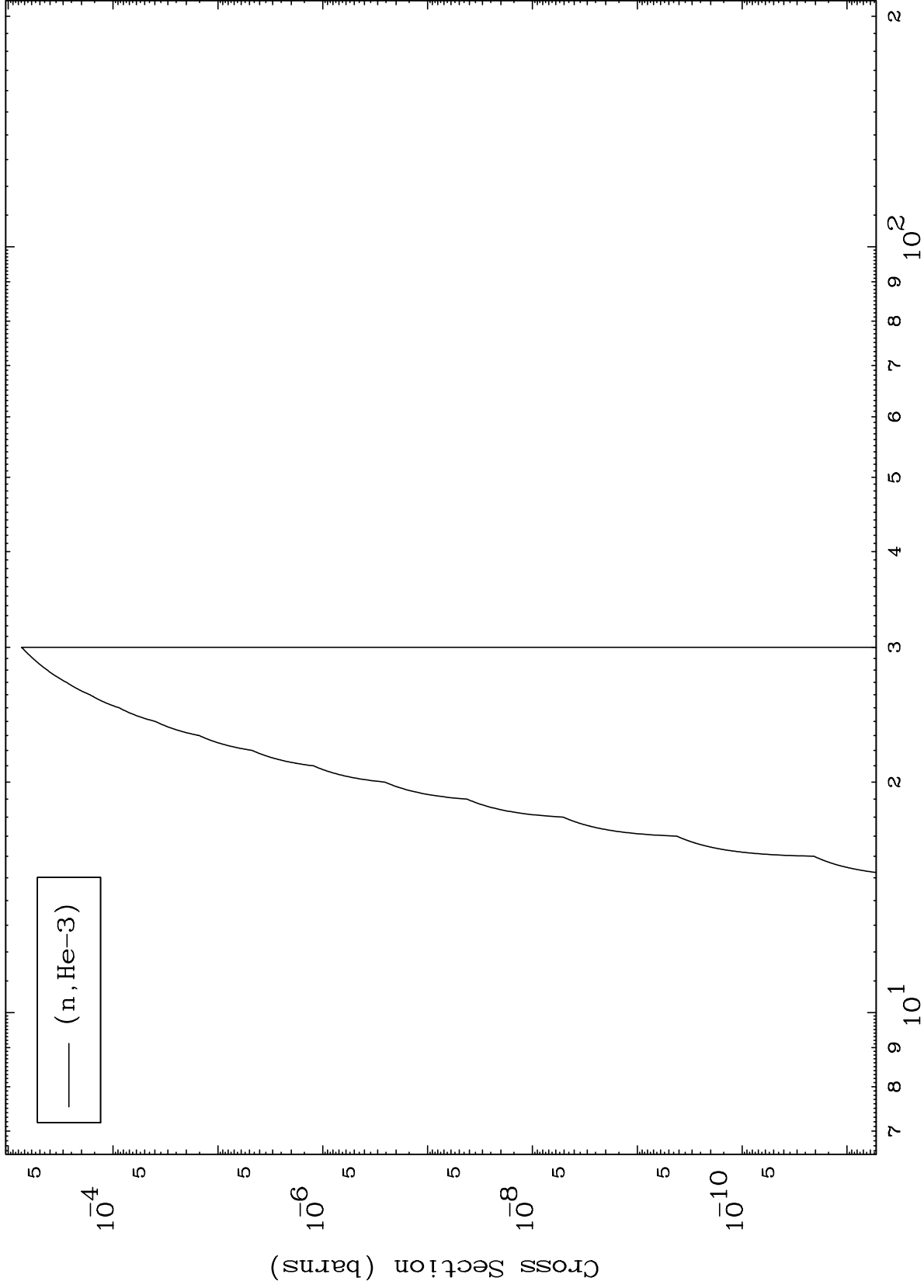
Incident Energy (MeV)

56-Ba-135

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(n,He3) Levels  
293 Kelvin Cross Sections

56-Ba-135



13

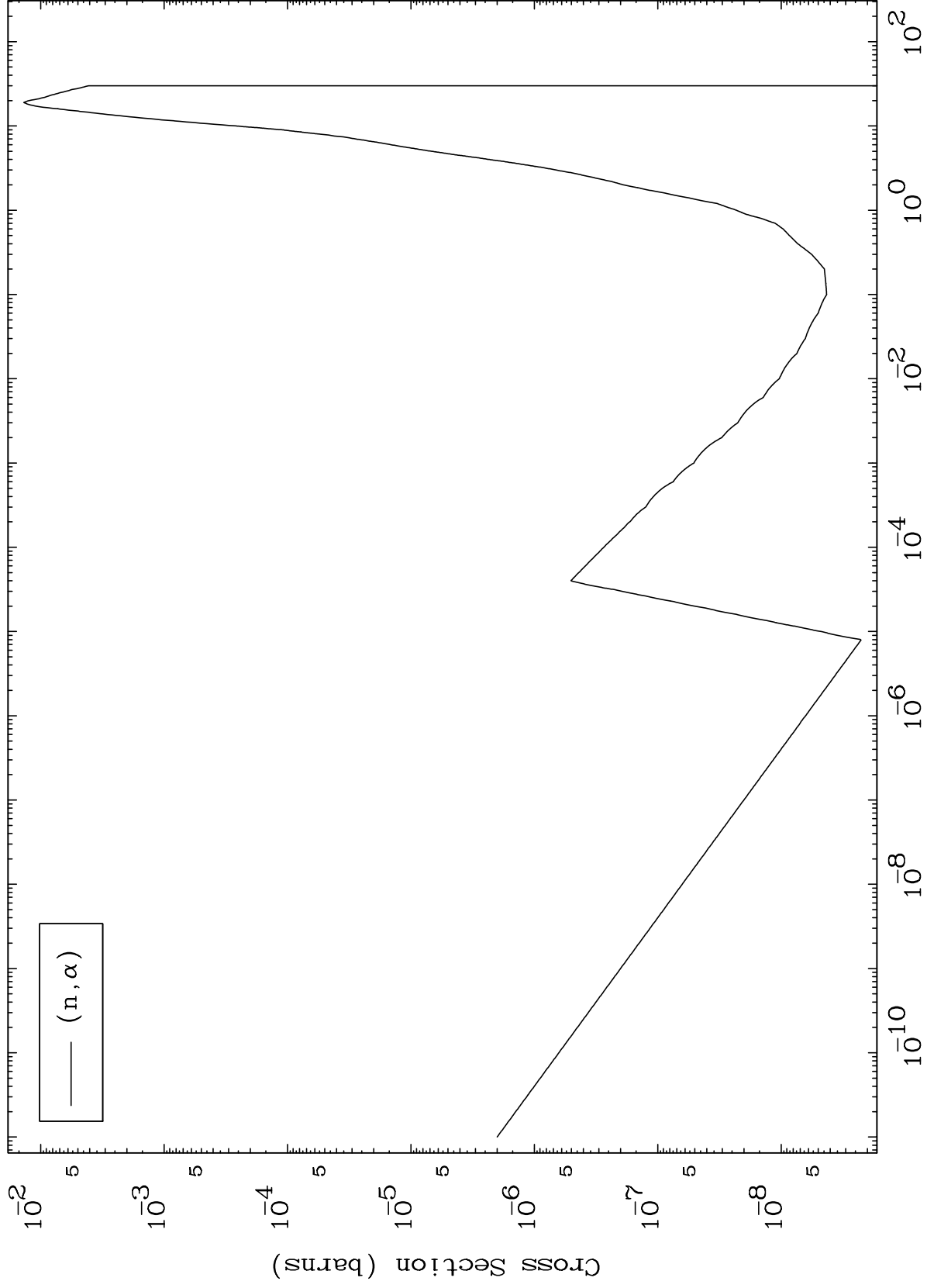
Incident Energy (MeV)

56-Ba-135

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

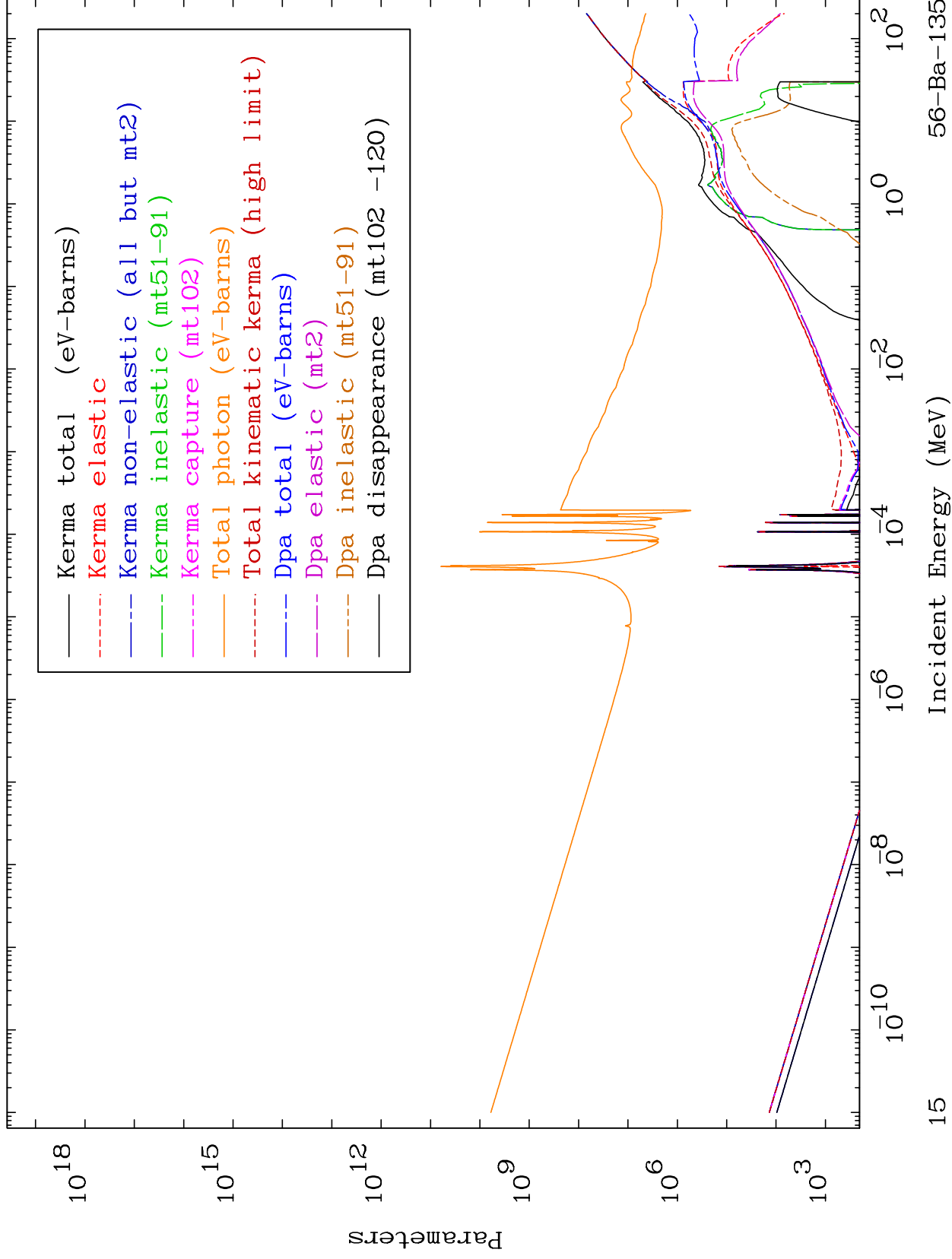
56-Ba-135



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56-Ba-135

Incident Energy (MeV)

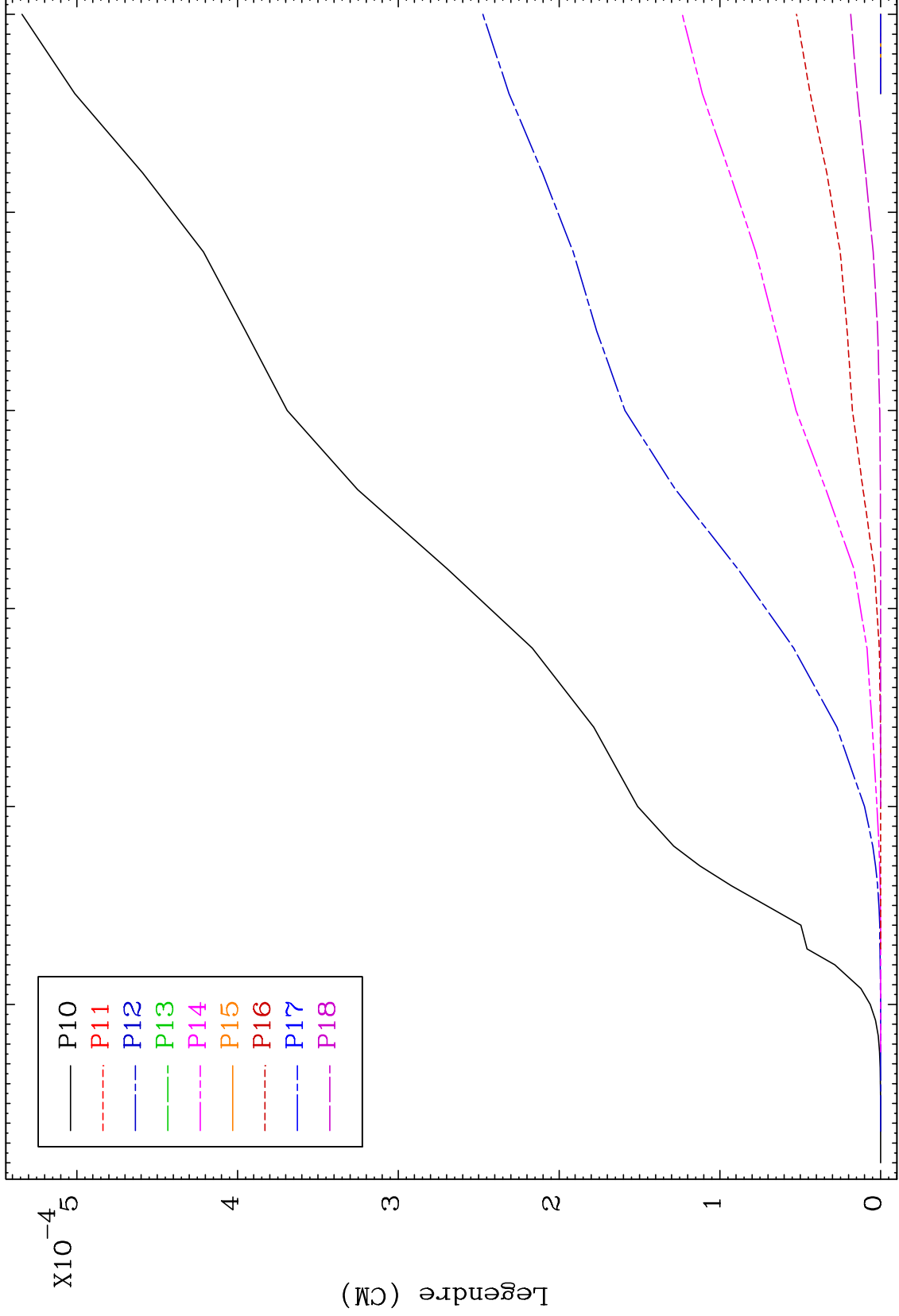




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Elastic Legendre Coefficients

56-Ba-135



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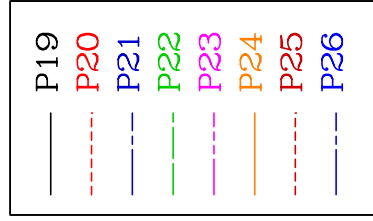
Incident Energy (MeV)

56-Ba-135

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Elastic  
Legendre Coefficients

56-Ba-135



$\times 10^{-6}$   
1.5

Legendre (CM)

1.0

0.5

0.0

15

20

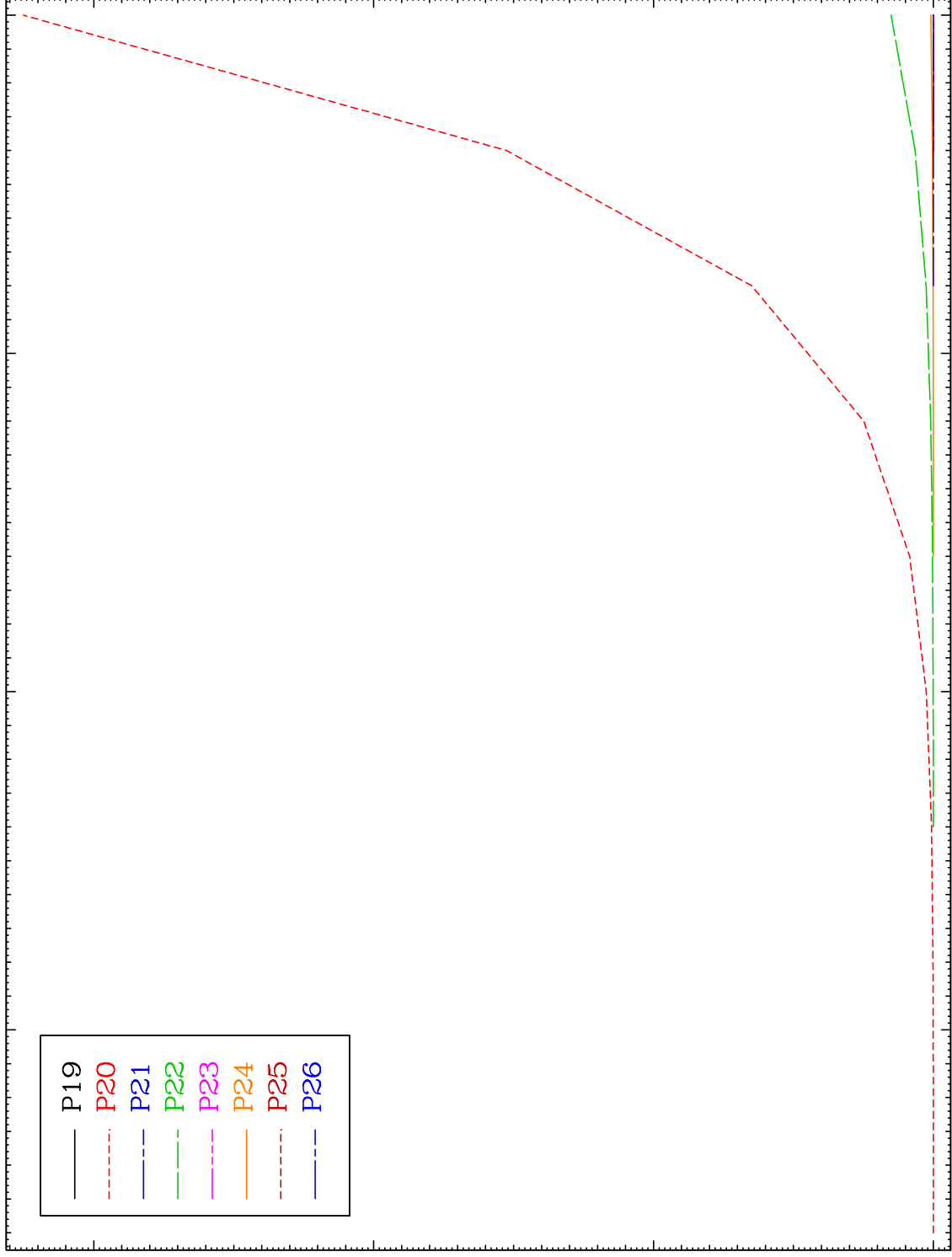
25

30

18

Incident Energy (MeV)

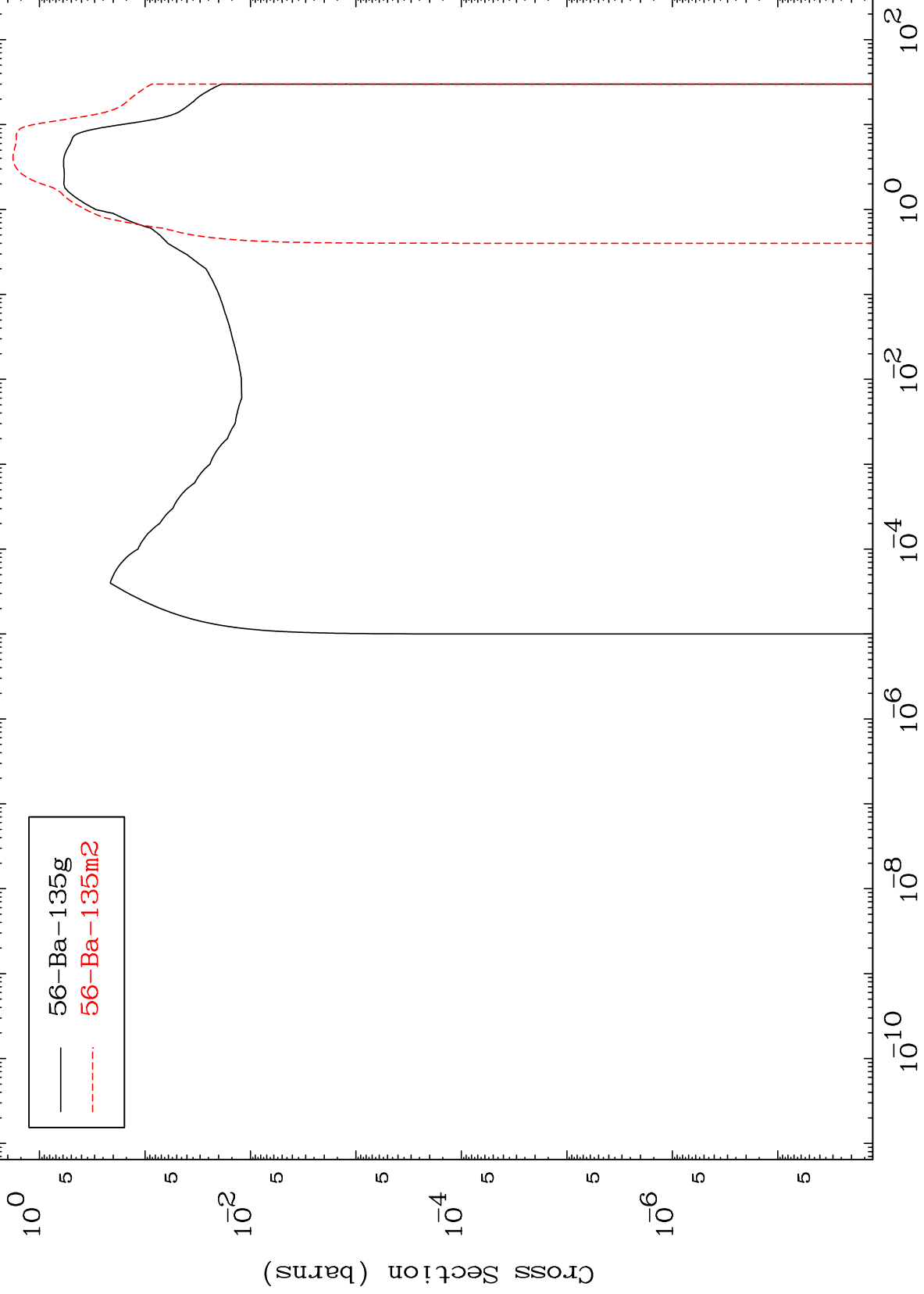
56-Ba-135



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Inelastic  
Radionuclide Production Cross Section

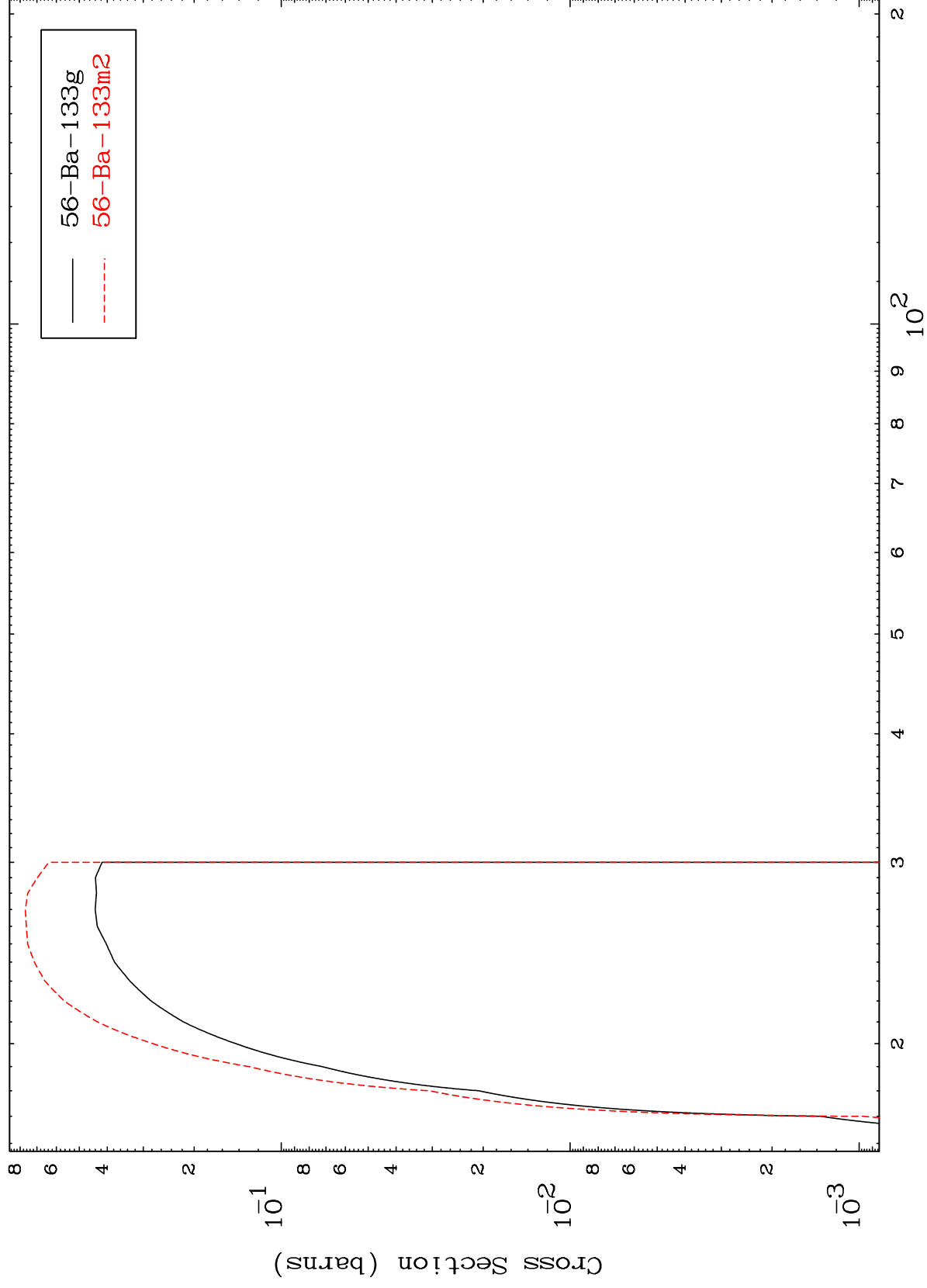
56-Ba-135



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56-Ba-135

(n,3n)  
Radionuclide Production Cross Section



20

Incident Energy (MeV)

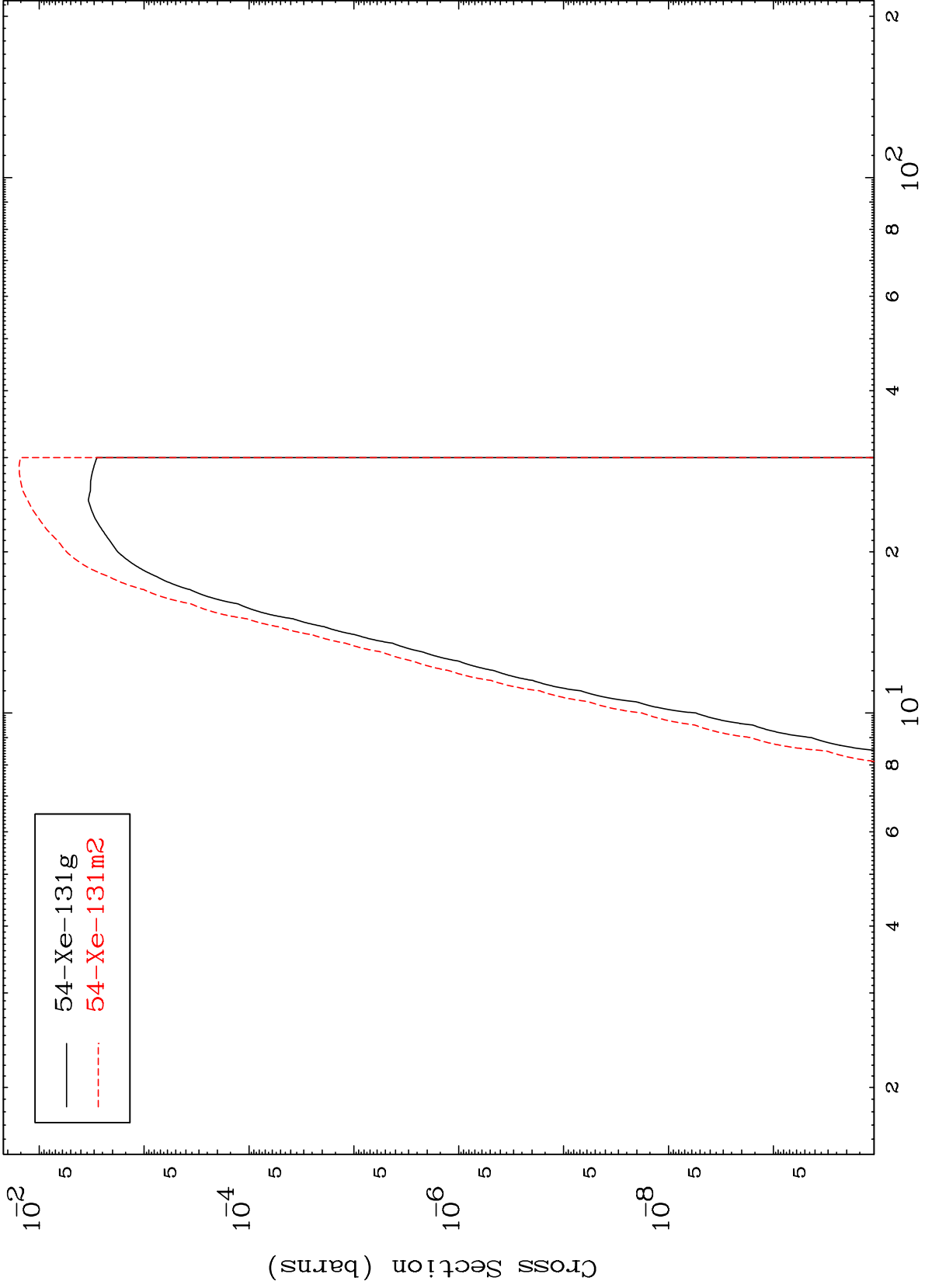
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(n,n')  $\alpha$

56-Ba-135

Radionuclide Production Cross Section

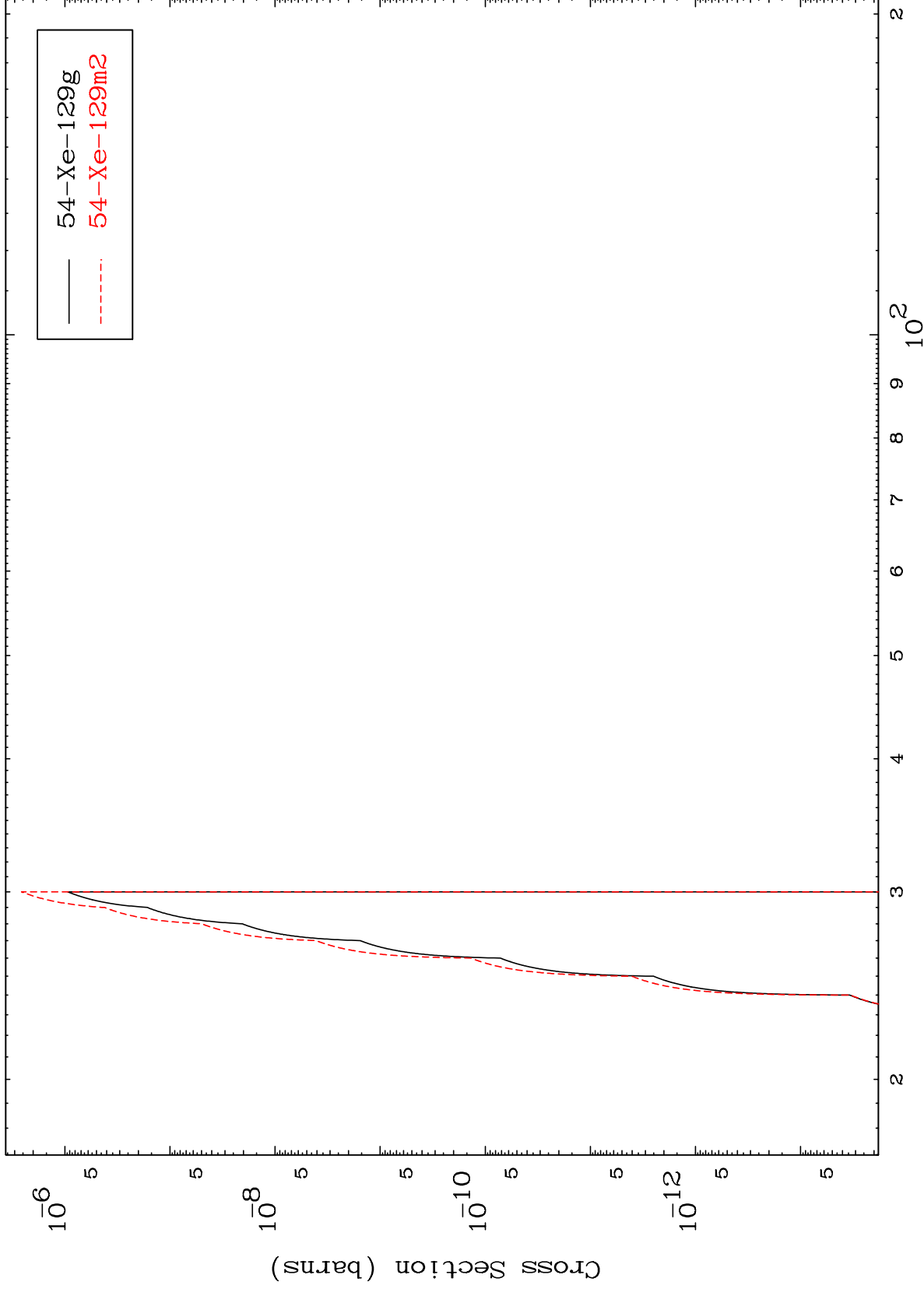


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(n,3n)  $\alpha$

56-Ba-135

Radionuclide Production Cross Section



22

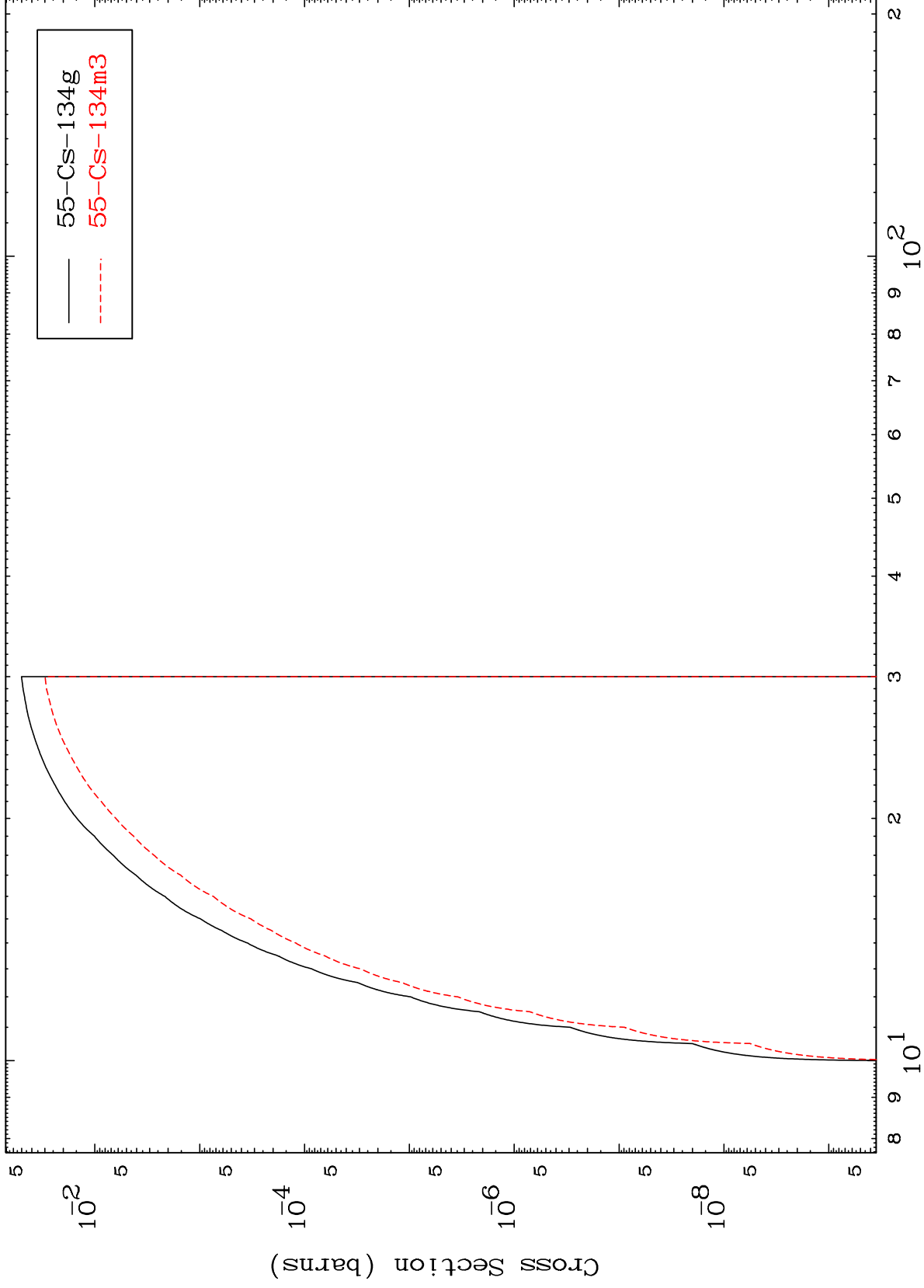
Incident Energy (MeV)

56-Ba-135

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56-Ba-135

(n,n') p  
Radionuclide Production Cross Section



56-Ba-135

Incident Energy (MeV)

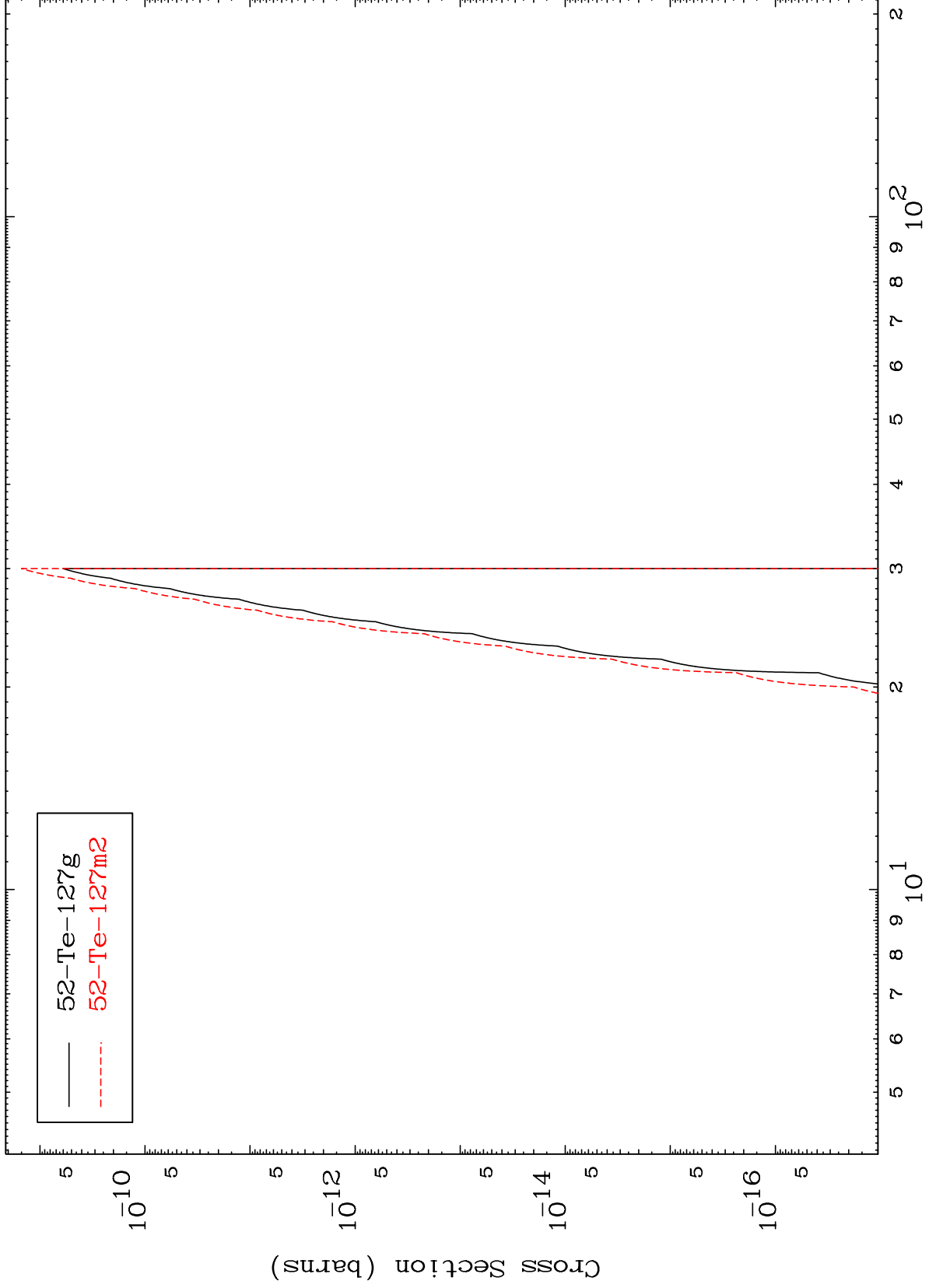
23

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$(n, n')$   $2\alpha$

56-Ba-135

Radionuclide Production Cross Section



24

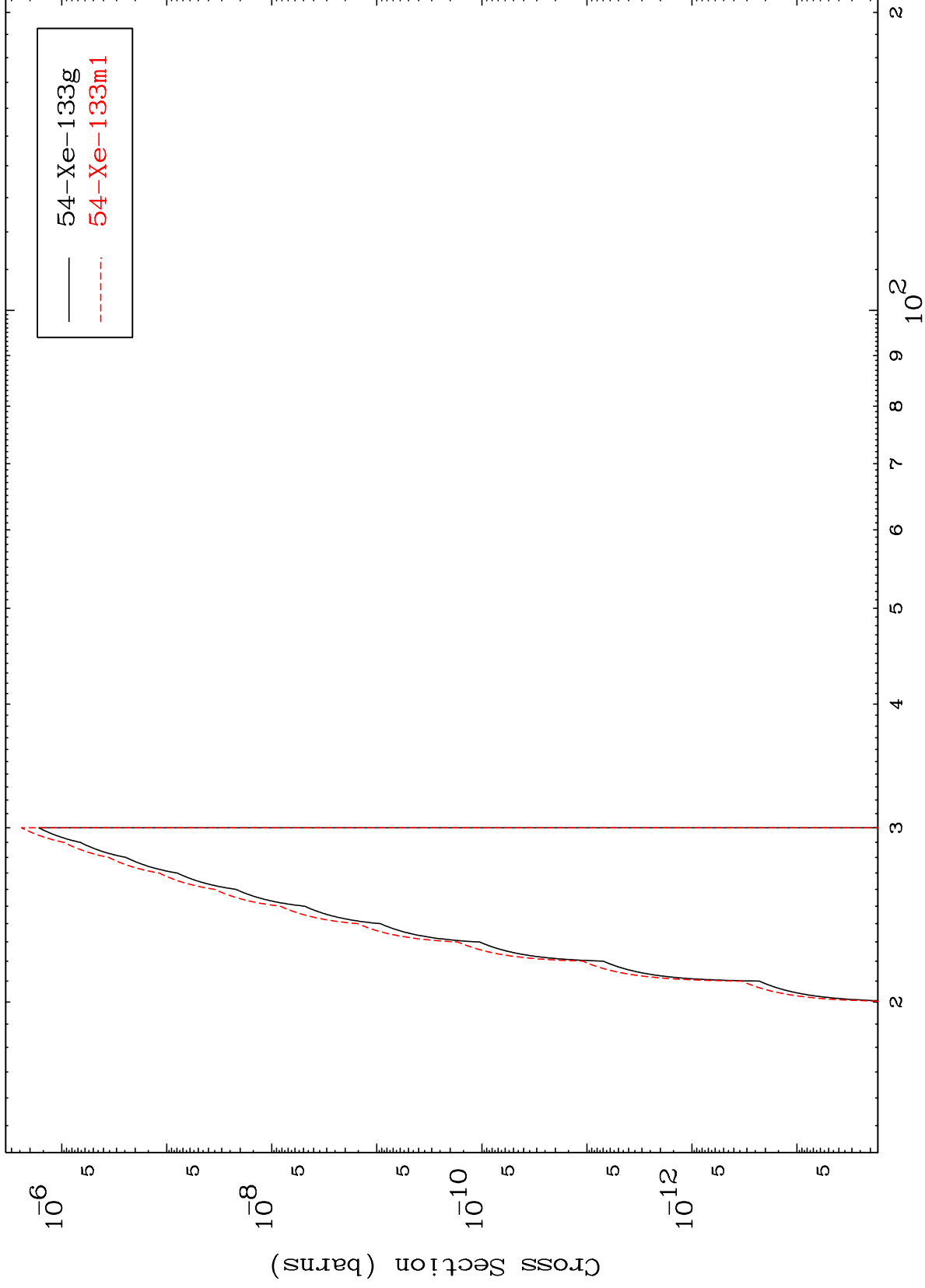
Incident Energy (MeV)

56-Ba-135

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56-Ba-135

(n,2n) p  
Radionuclide Production Cross Section

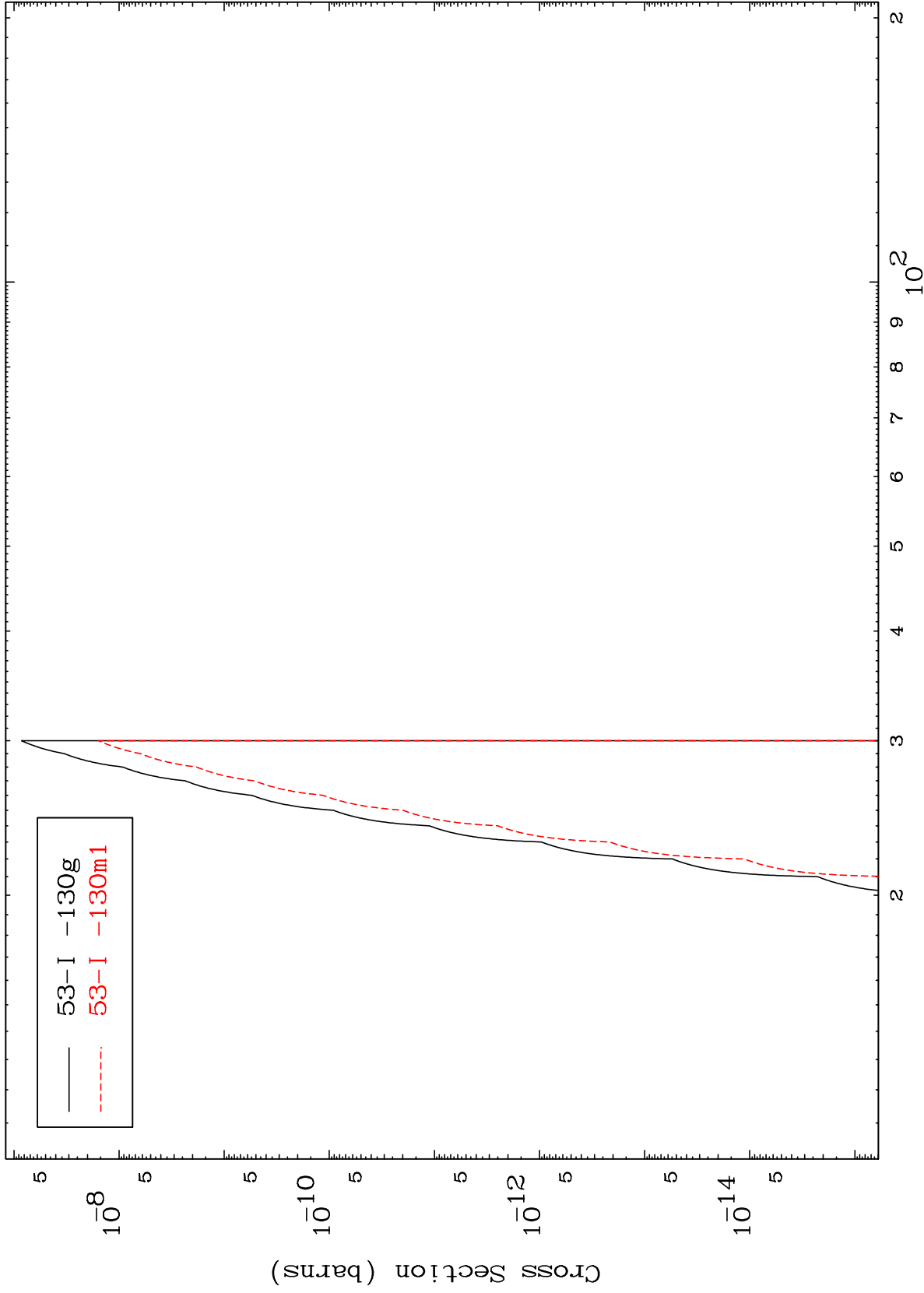


25

56-Ba-135

Incident Energy (MeV)

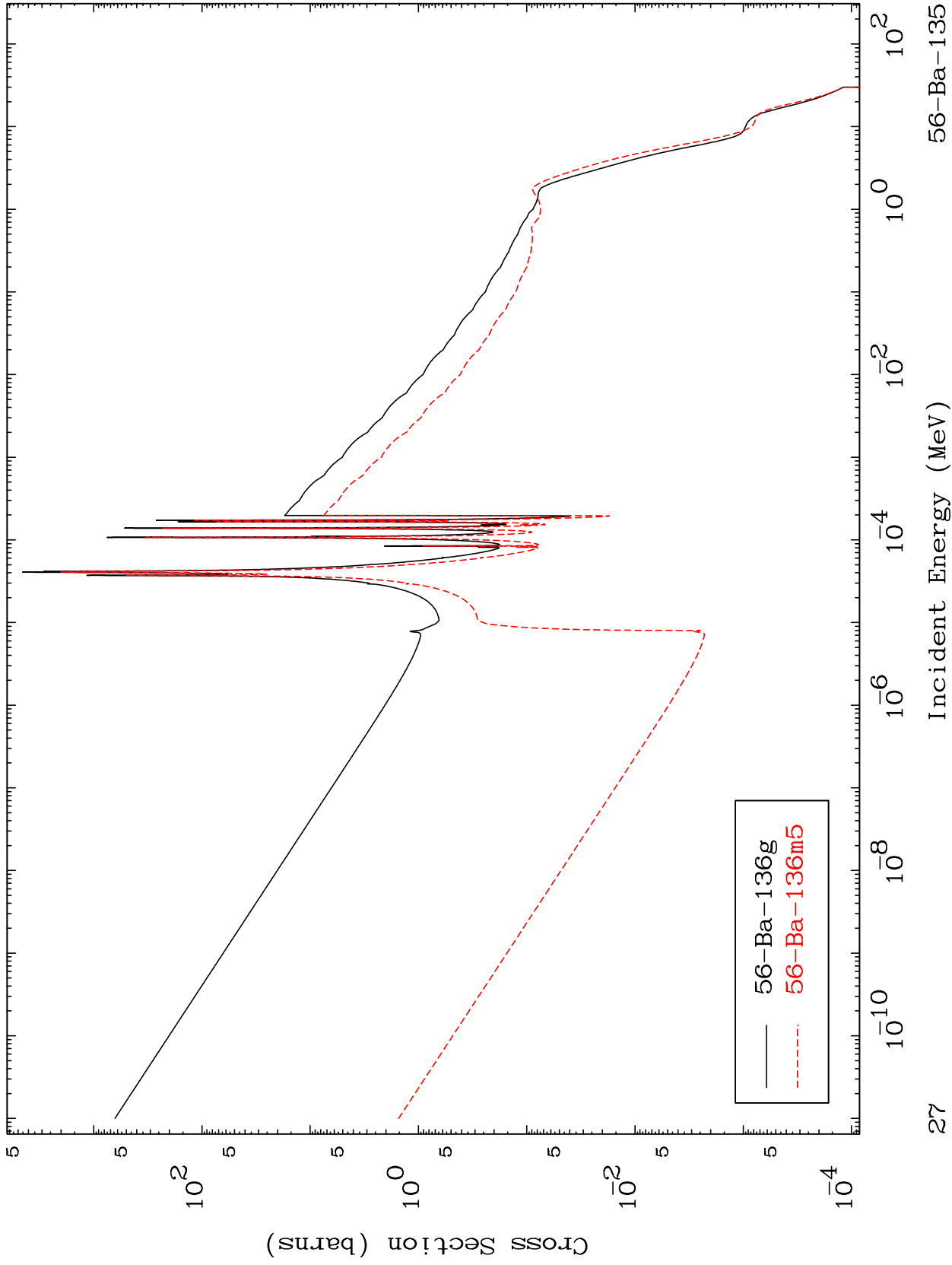
Radionuclide Production Cross Section



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56-Ba-135

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

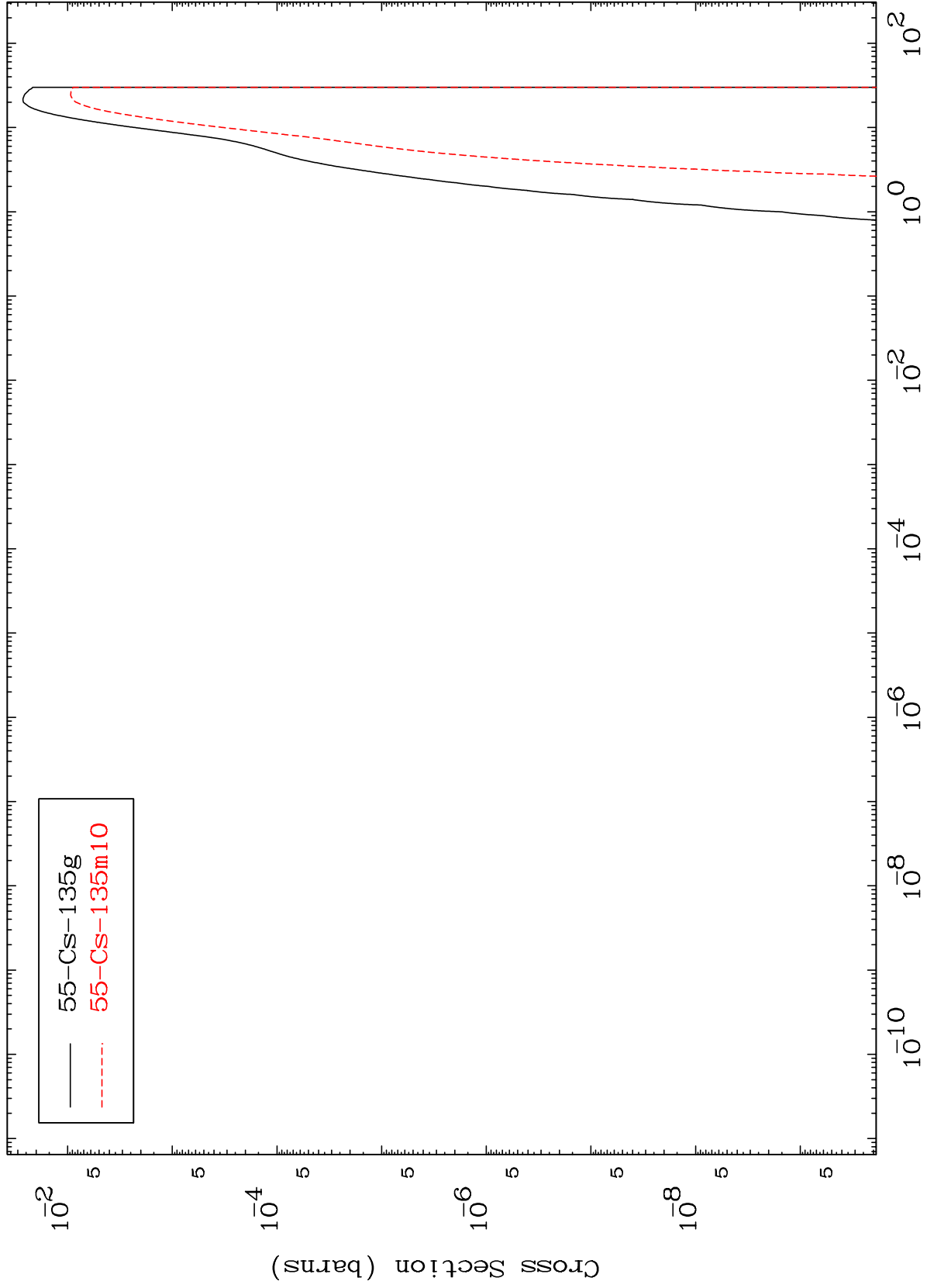


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(n,p)

56-Ba-135

Radionuclide Production Cross Section



28

Incident Energy (MeV)

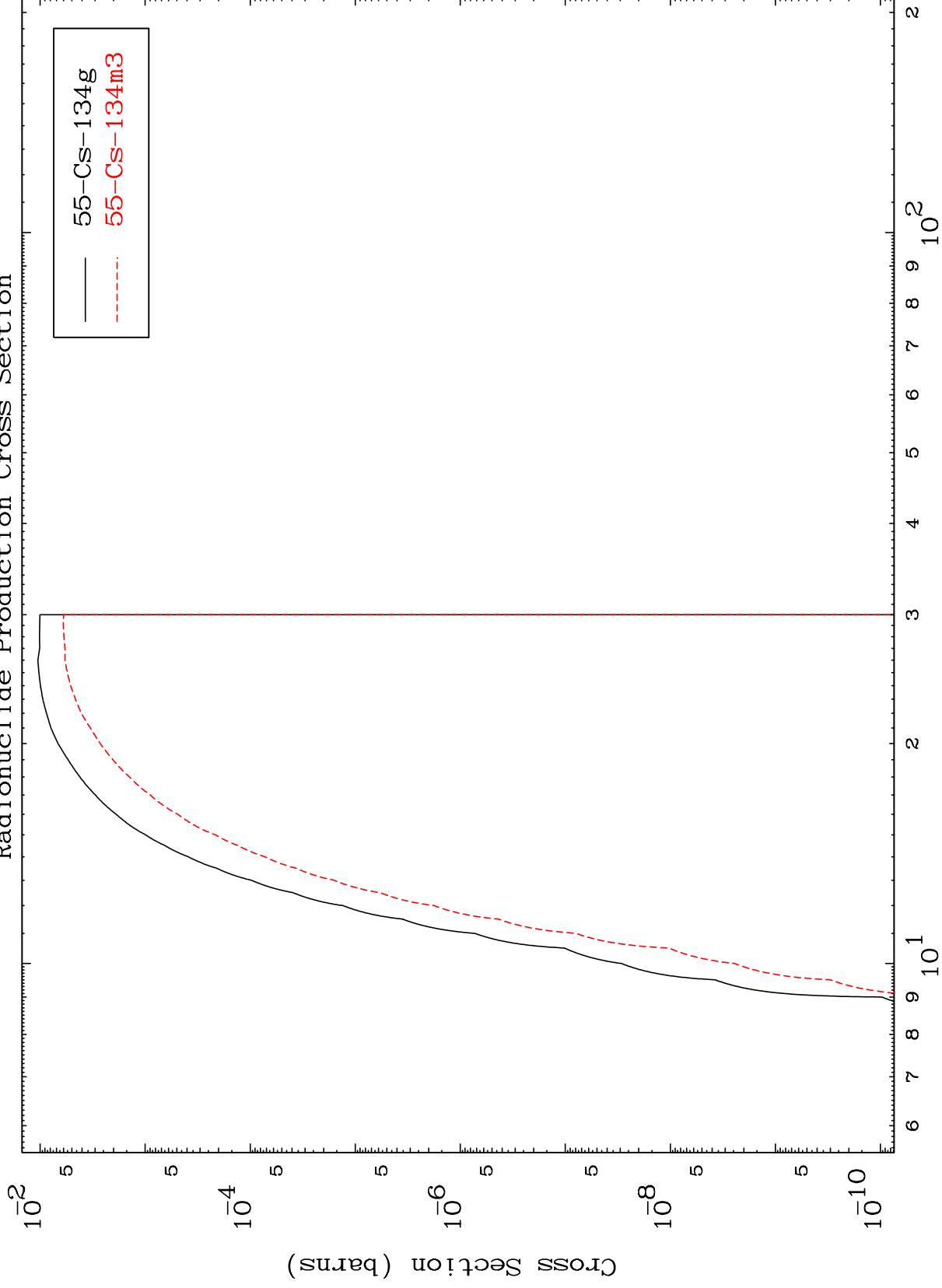
56-Ba-135

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(n,d)

56-Ba-135

Radionuclide Production Cross Section



29

Incident Energy (MeV)

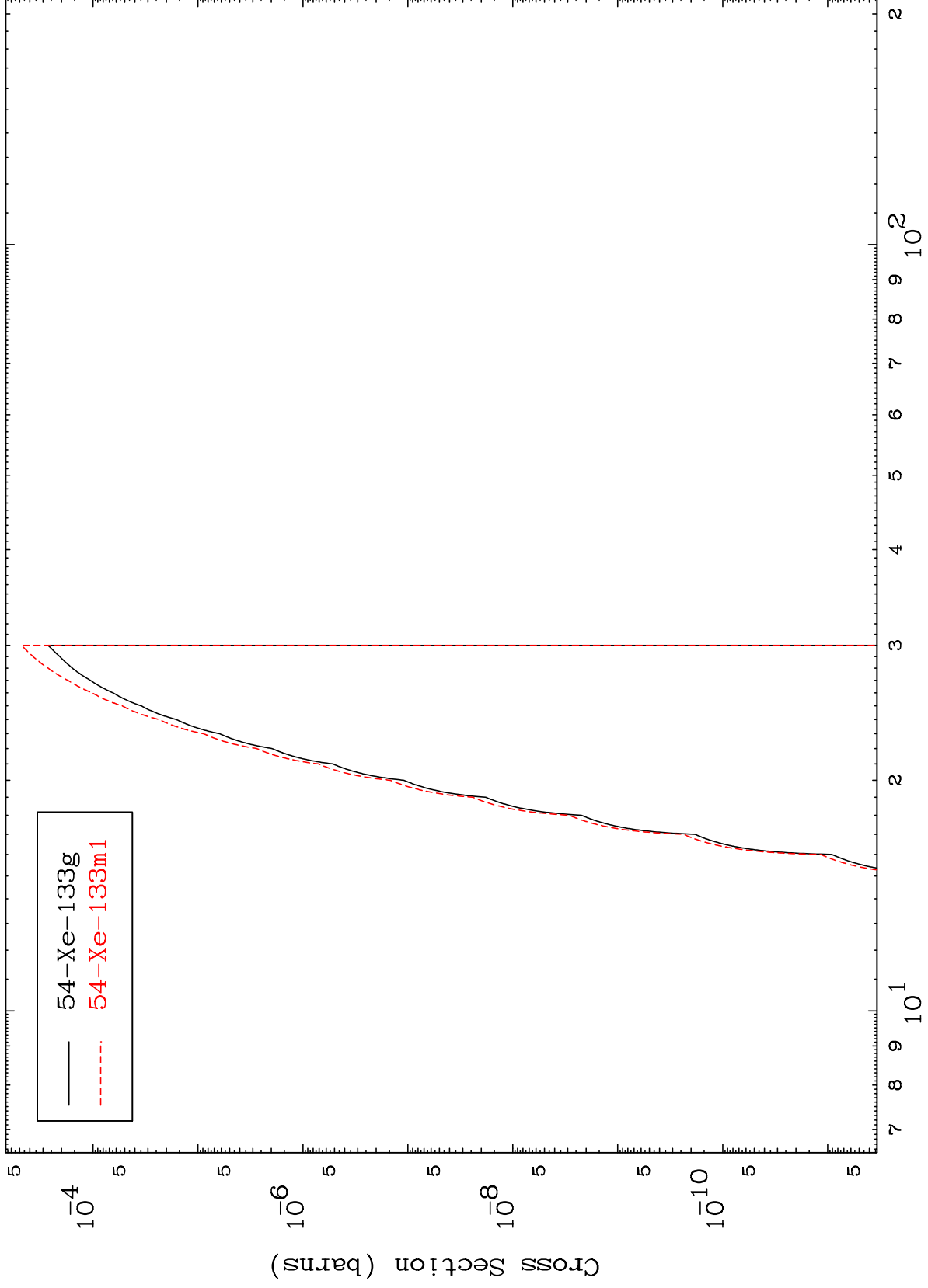
56-Ba-135

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(n,He-3)

56-Ba-135

Radionuclide Production Cross Section



30

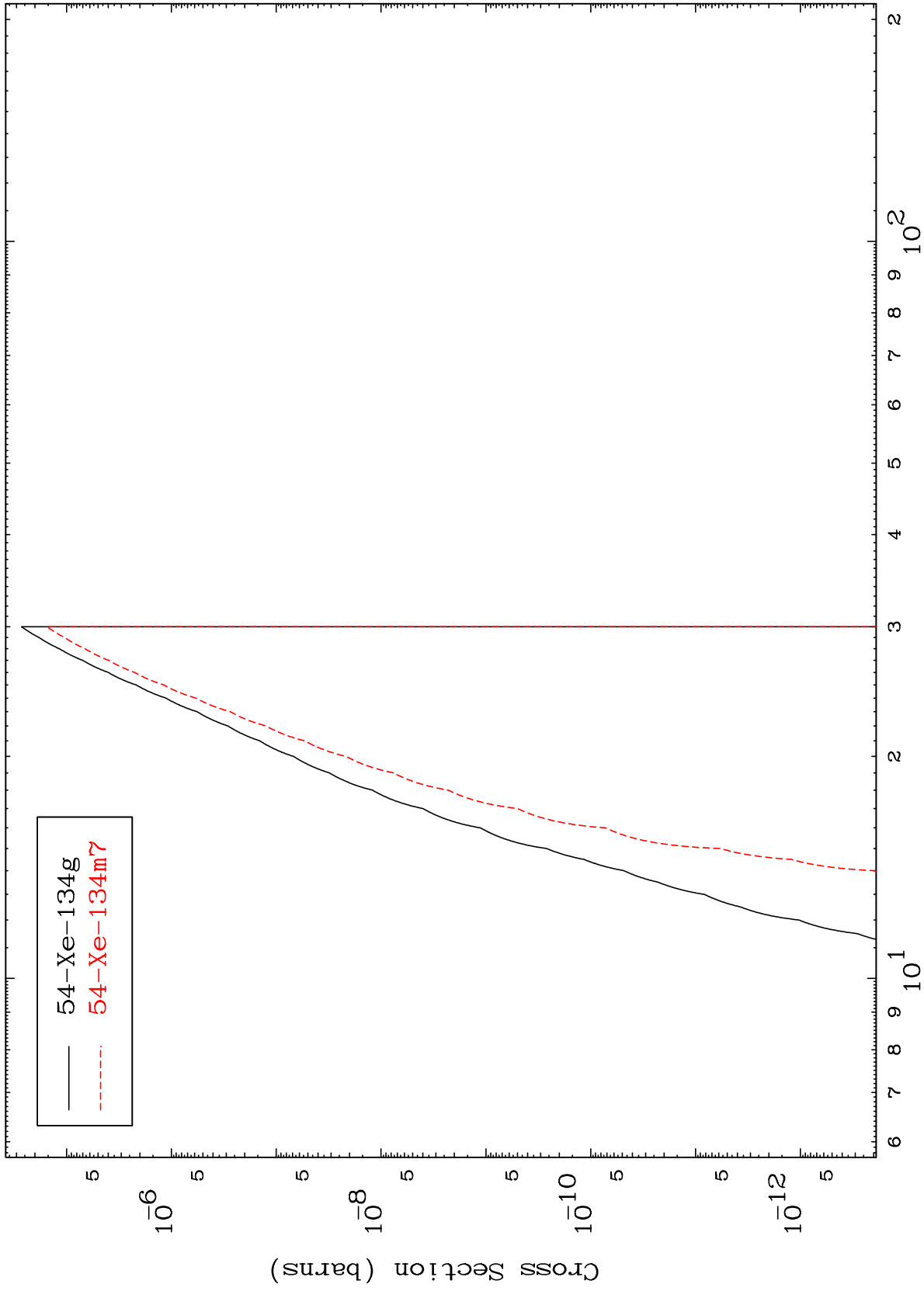
Incident Energy (MeV)

56-Ba-135

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56-Ba-135

(n,2p)  
Radionuclide Production Cross Section

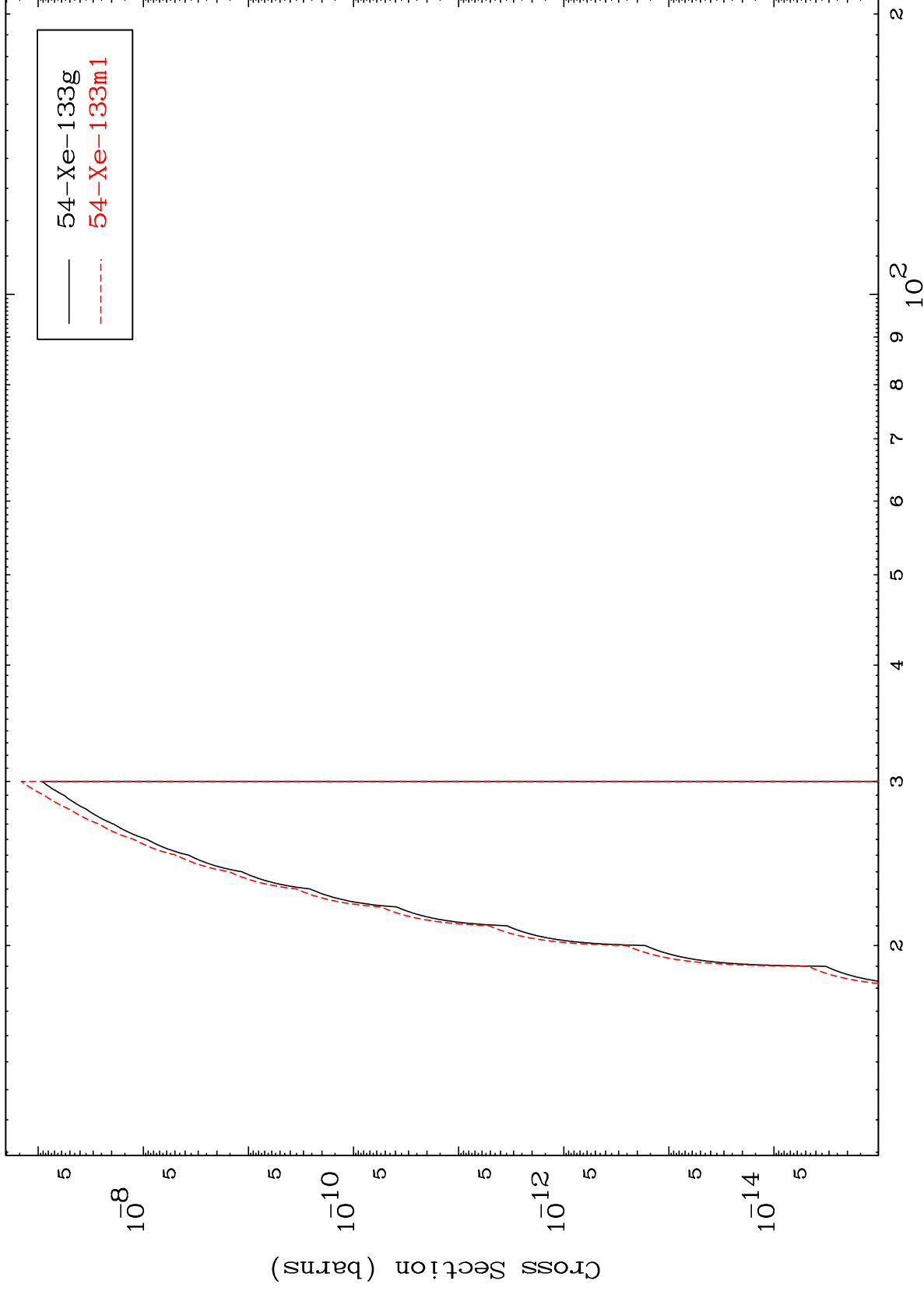


31

Incident Energy (MeV)

56-Ba-135

Radionuclide Production Cross Section

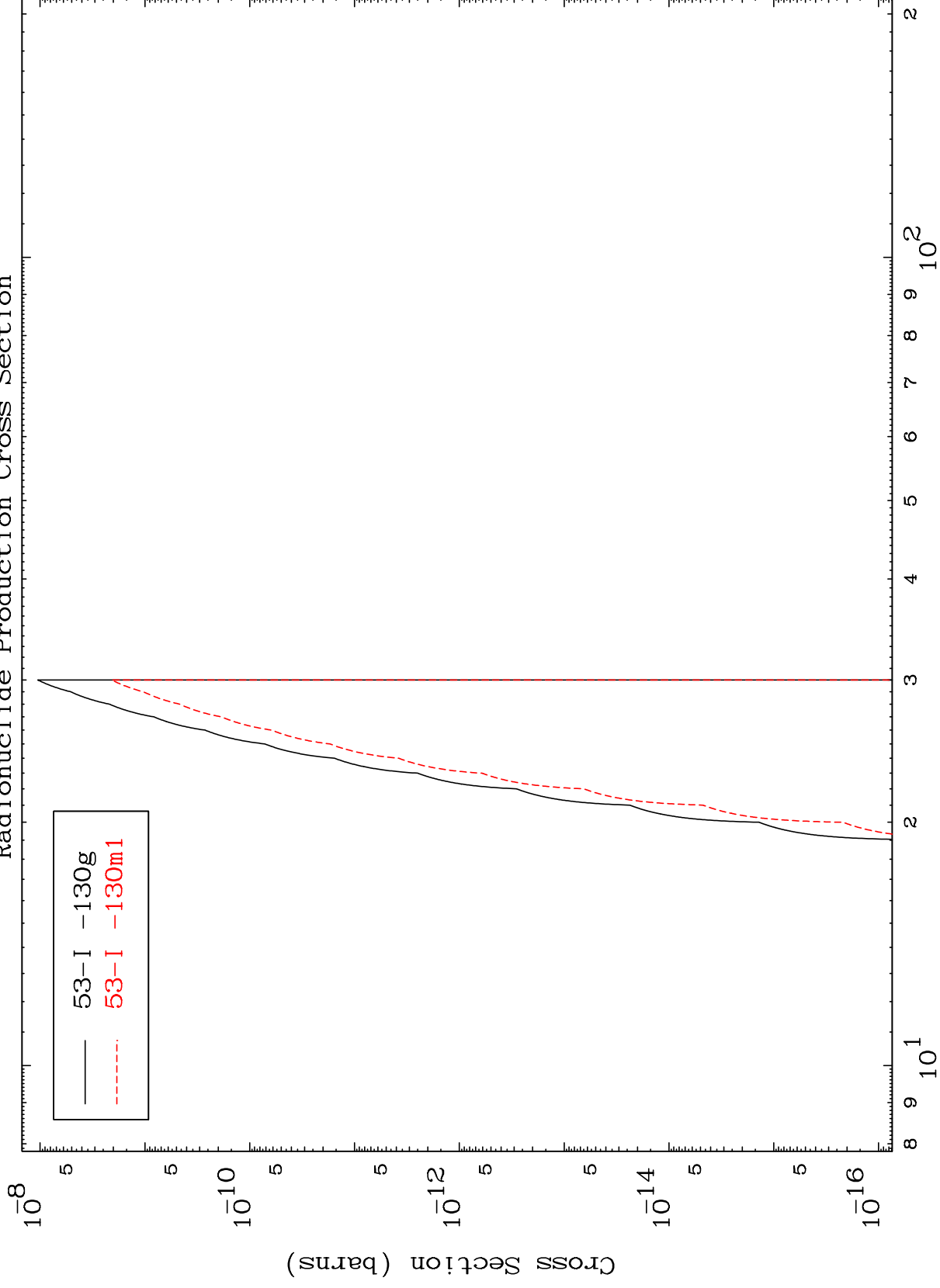


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(n,d)  $\alpha$

56-Ba-135

Radionuclide Production Cross Section



33

Incident Energy (MeV)

56-Ba-135