

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

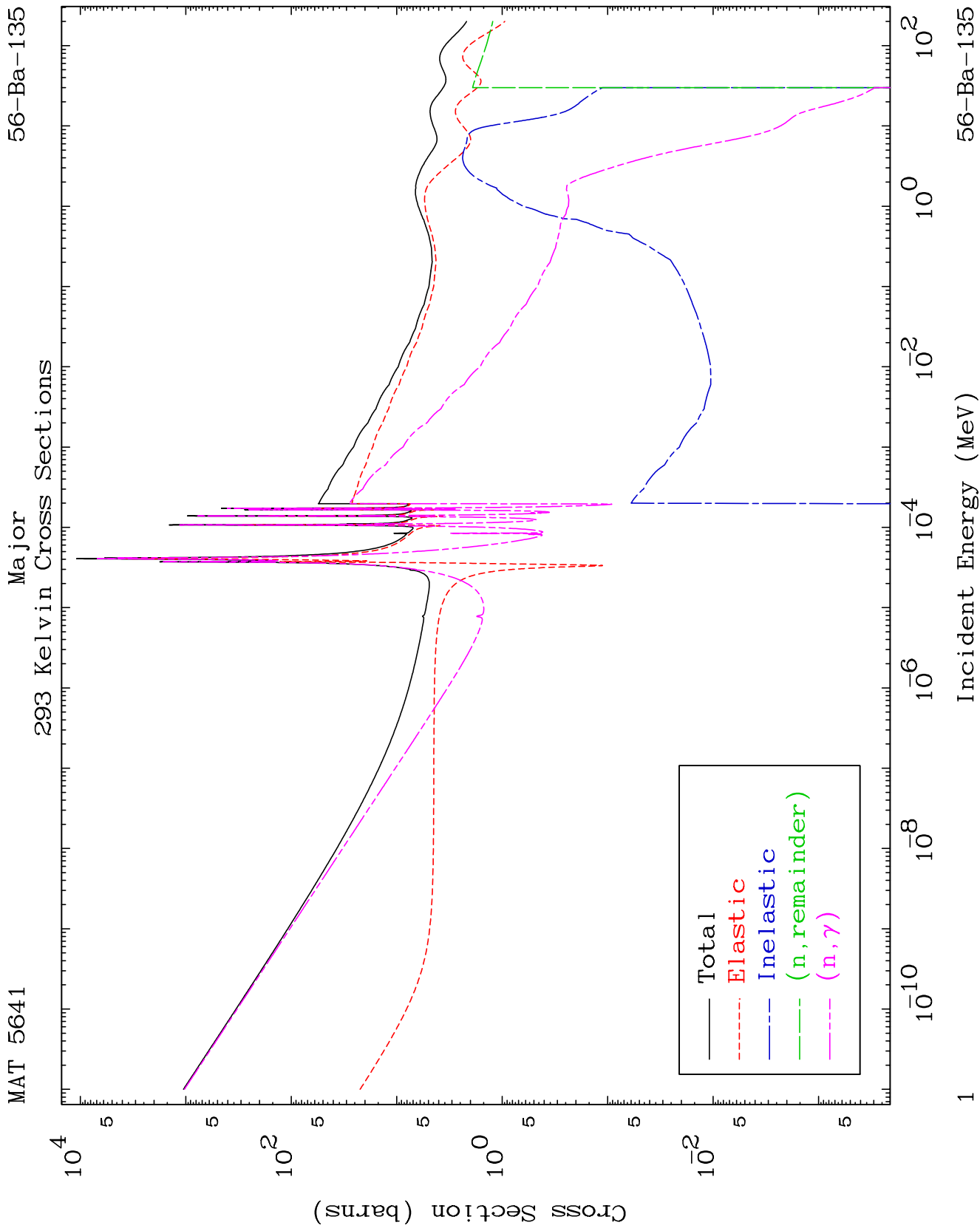
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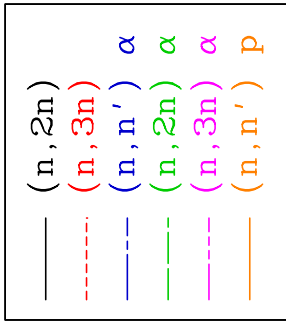
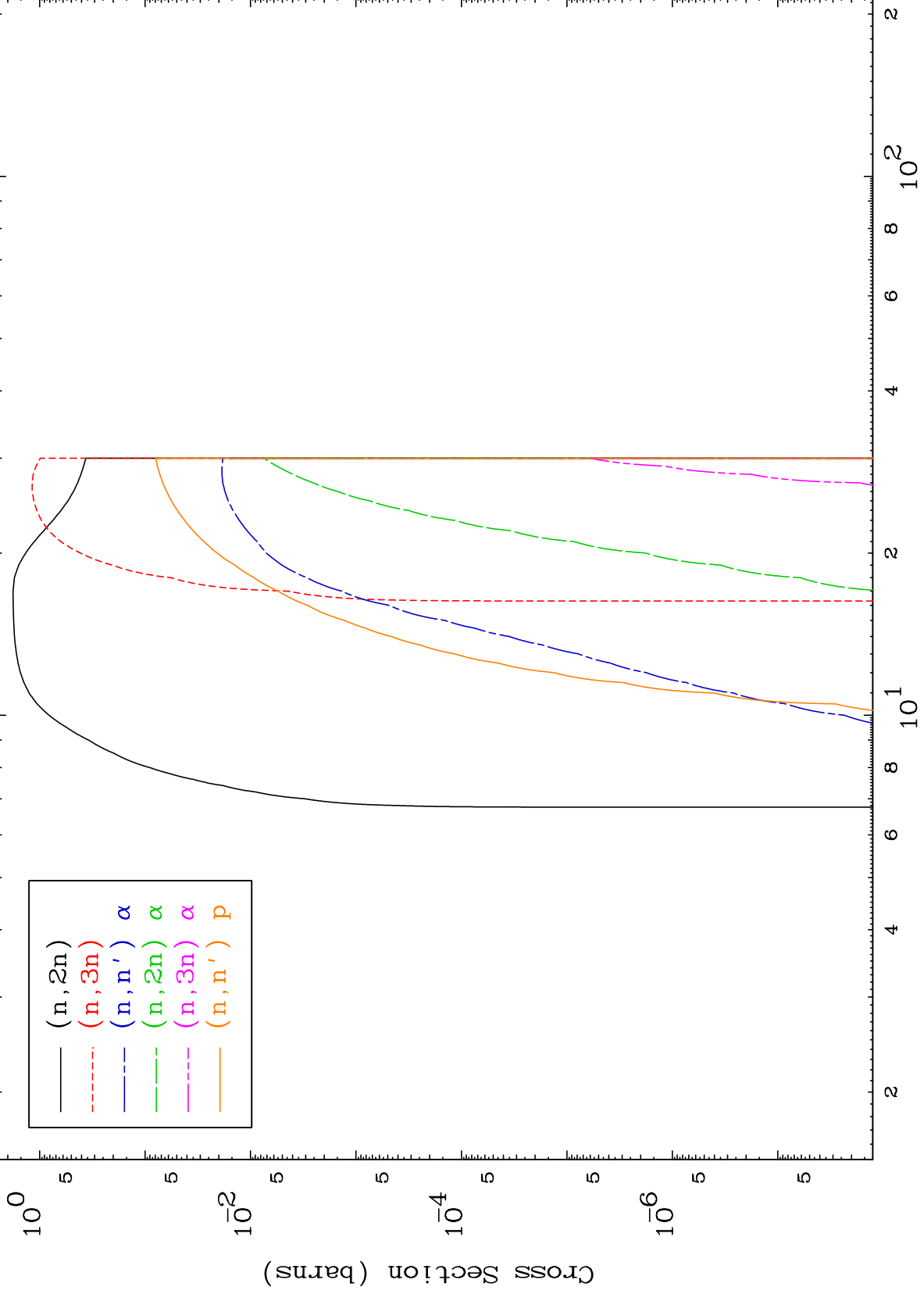
Press Mouse Button to Start

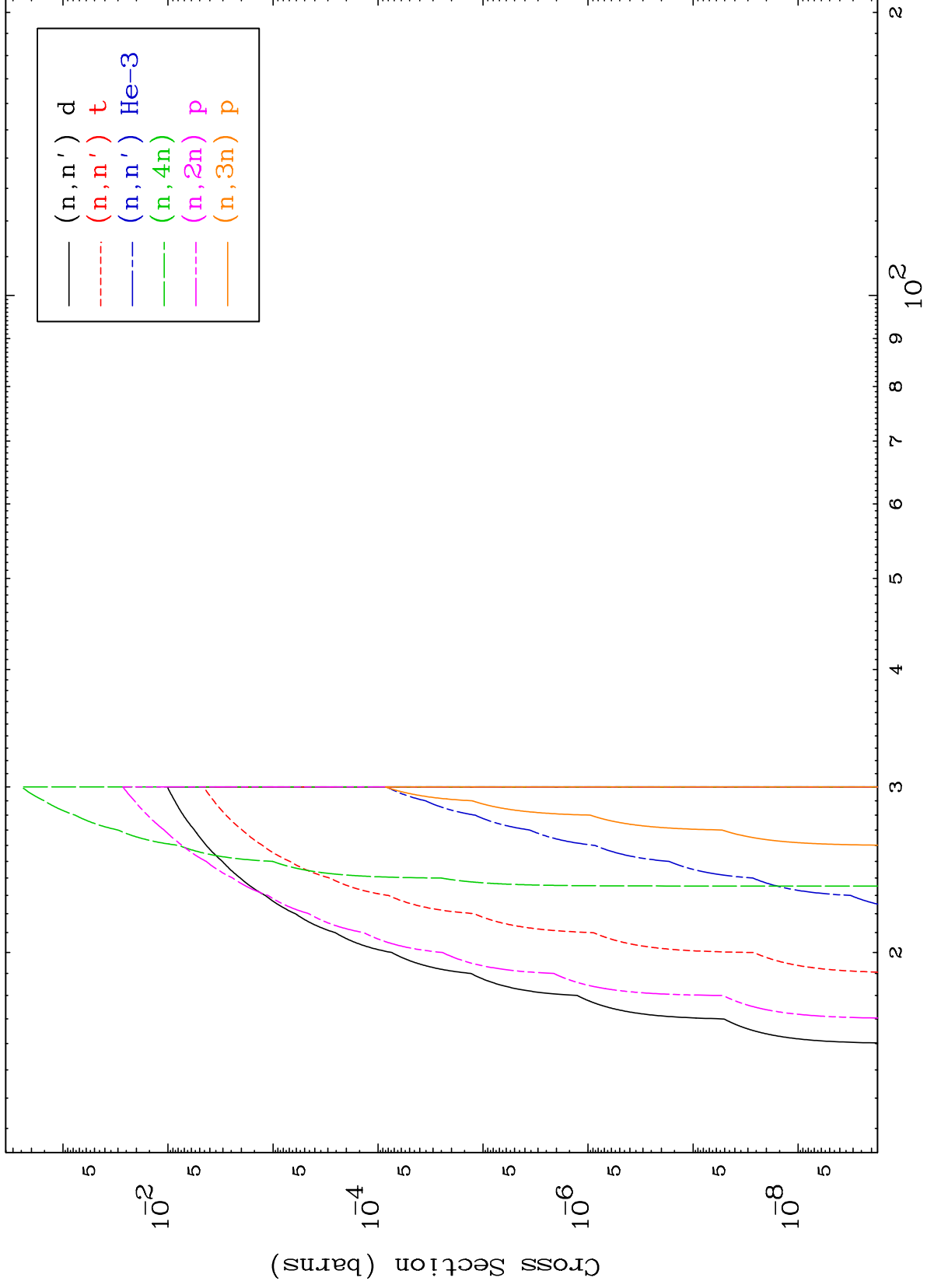


MAT 5641

Neutron Production
293 Kelvin Cross Sections

56-Ba-135

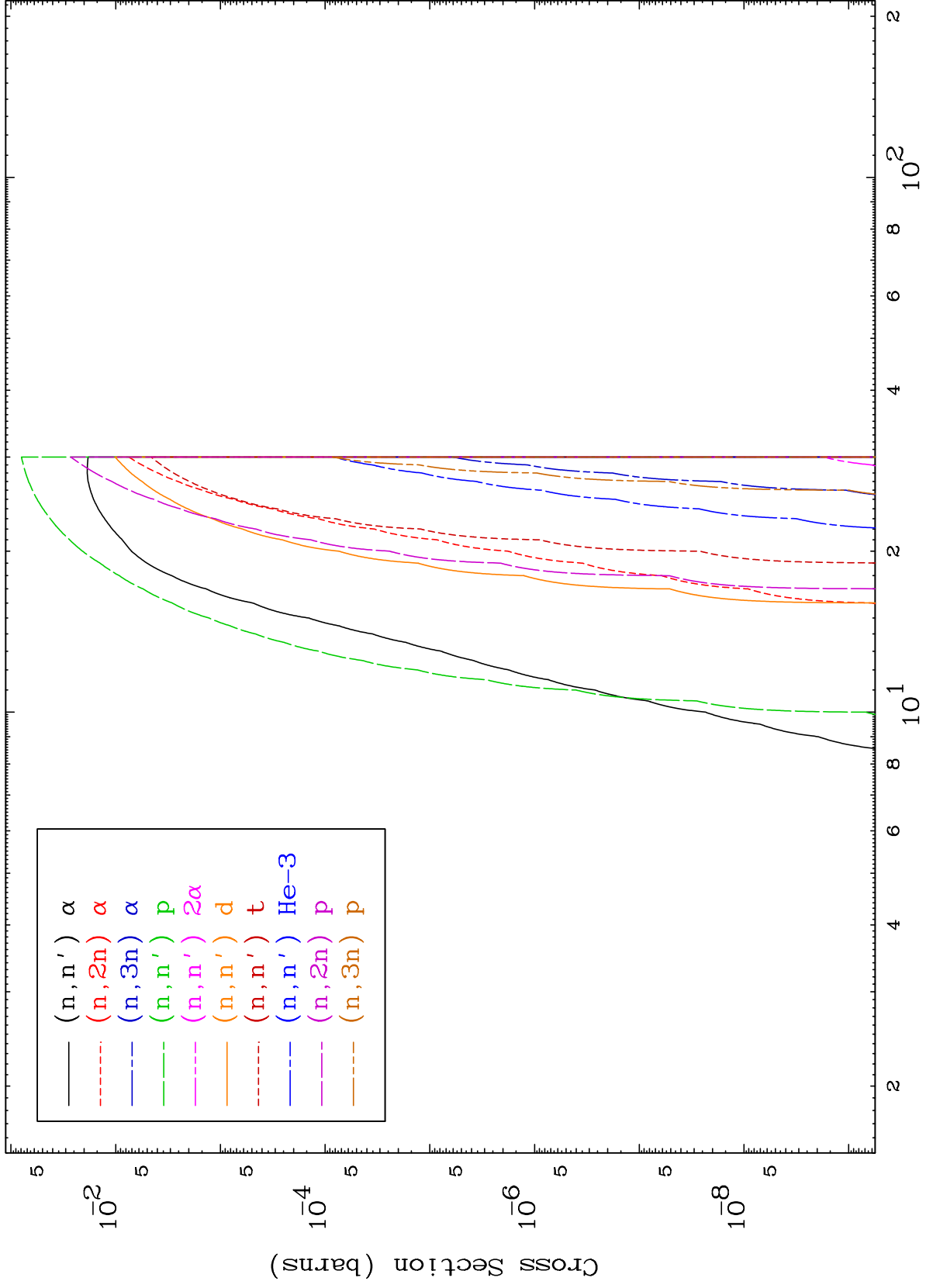




MAT 5641

Charged Particle
293 Kelvin Cross Sections

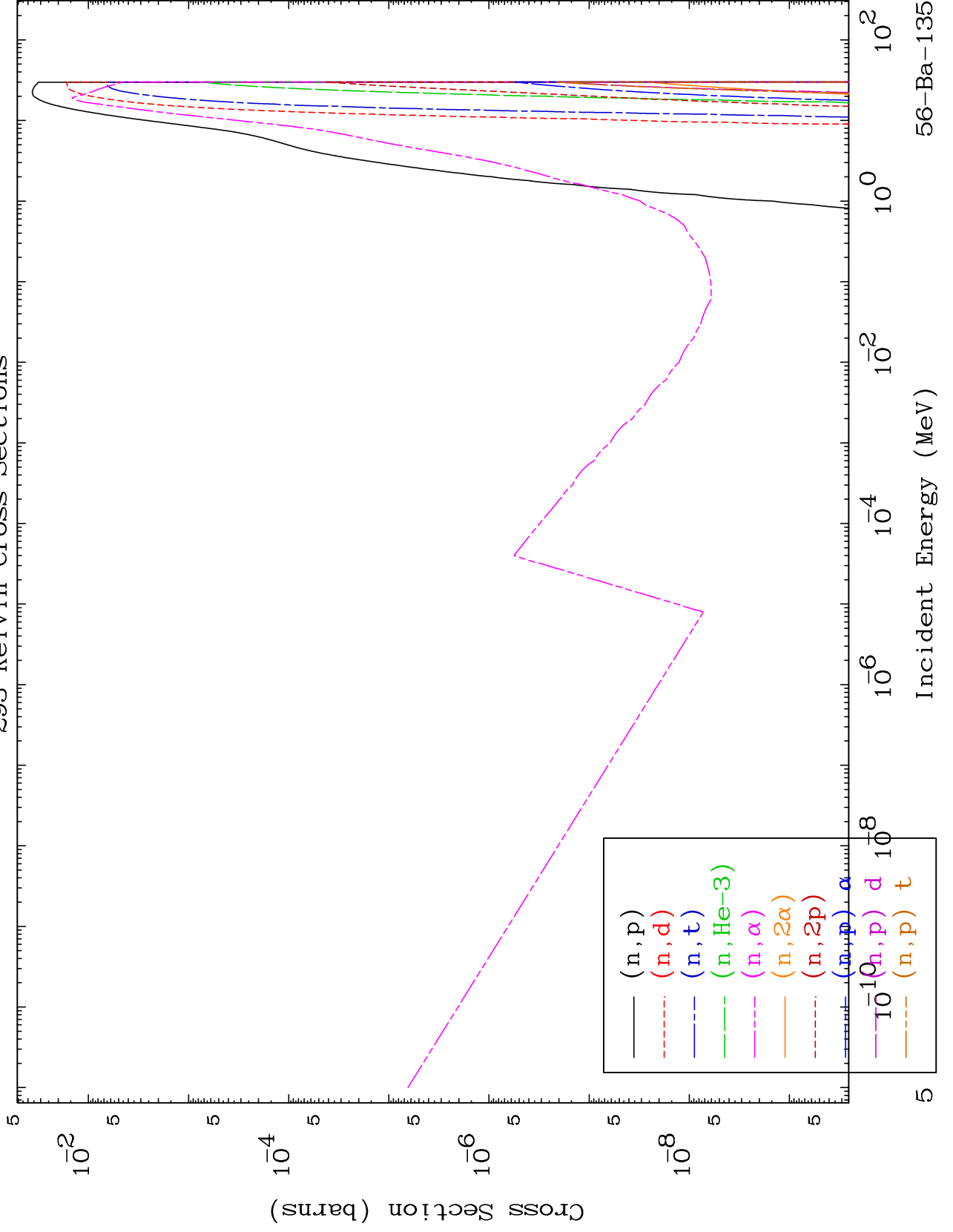
56-Ba-135



MAT 5641

Charged Particle
293 Kelvin Cross Sections

56-Ba-135

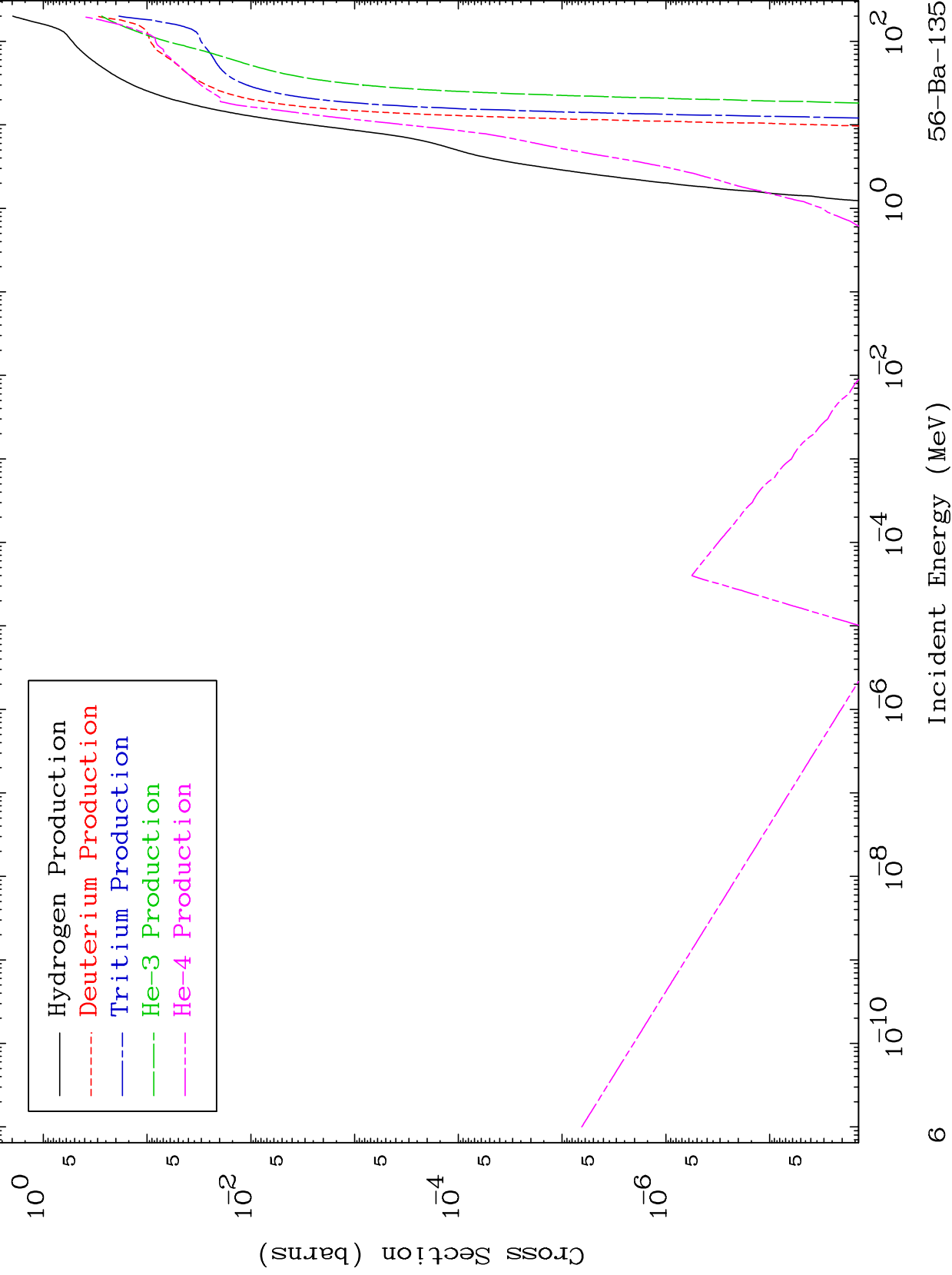


56-Ba-135

MAT 5641

Particle Production
293 Kelvin Cross Sections

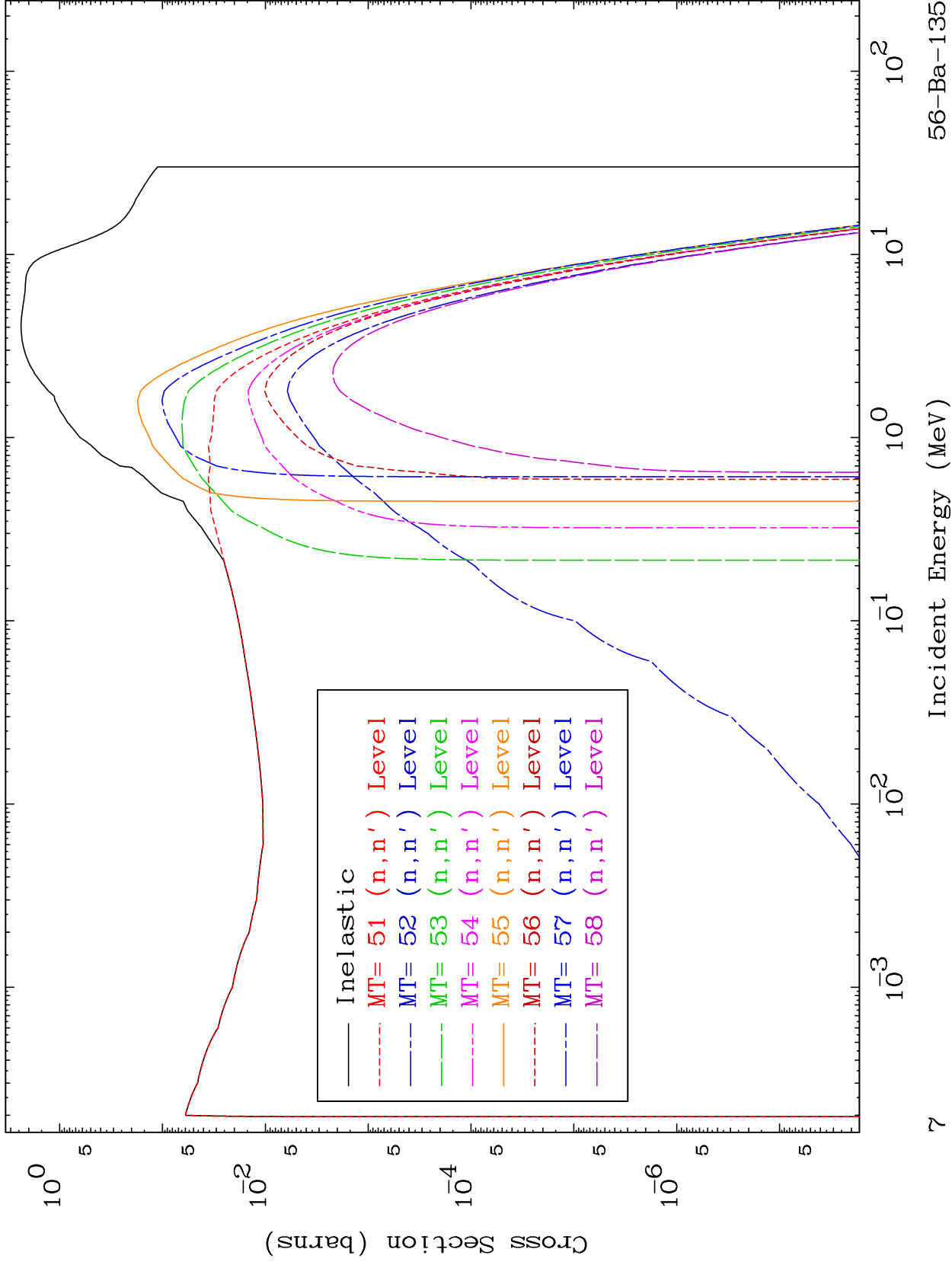
56-Ba-135



MAT 5641

(n,n') Level
293 Kelvin Cross Sections

56-Ba-135

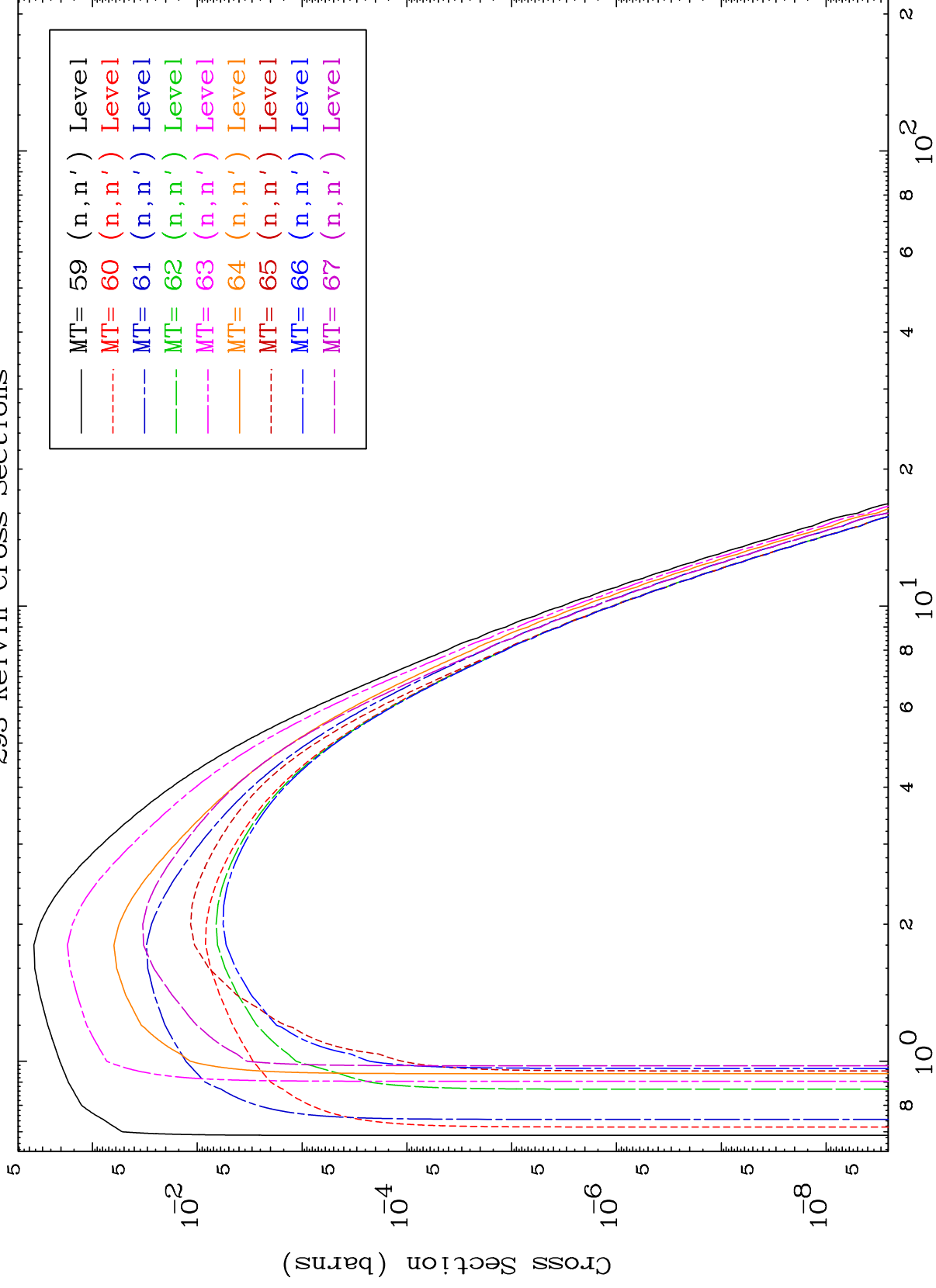


MAT 5641

(n,n') Level

56-Ba-135

293 Kelvin Cross Sections



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Incident Energy (MeV)

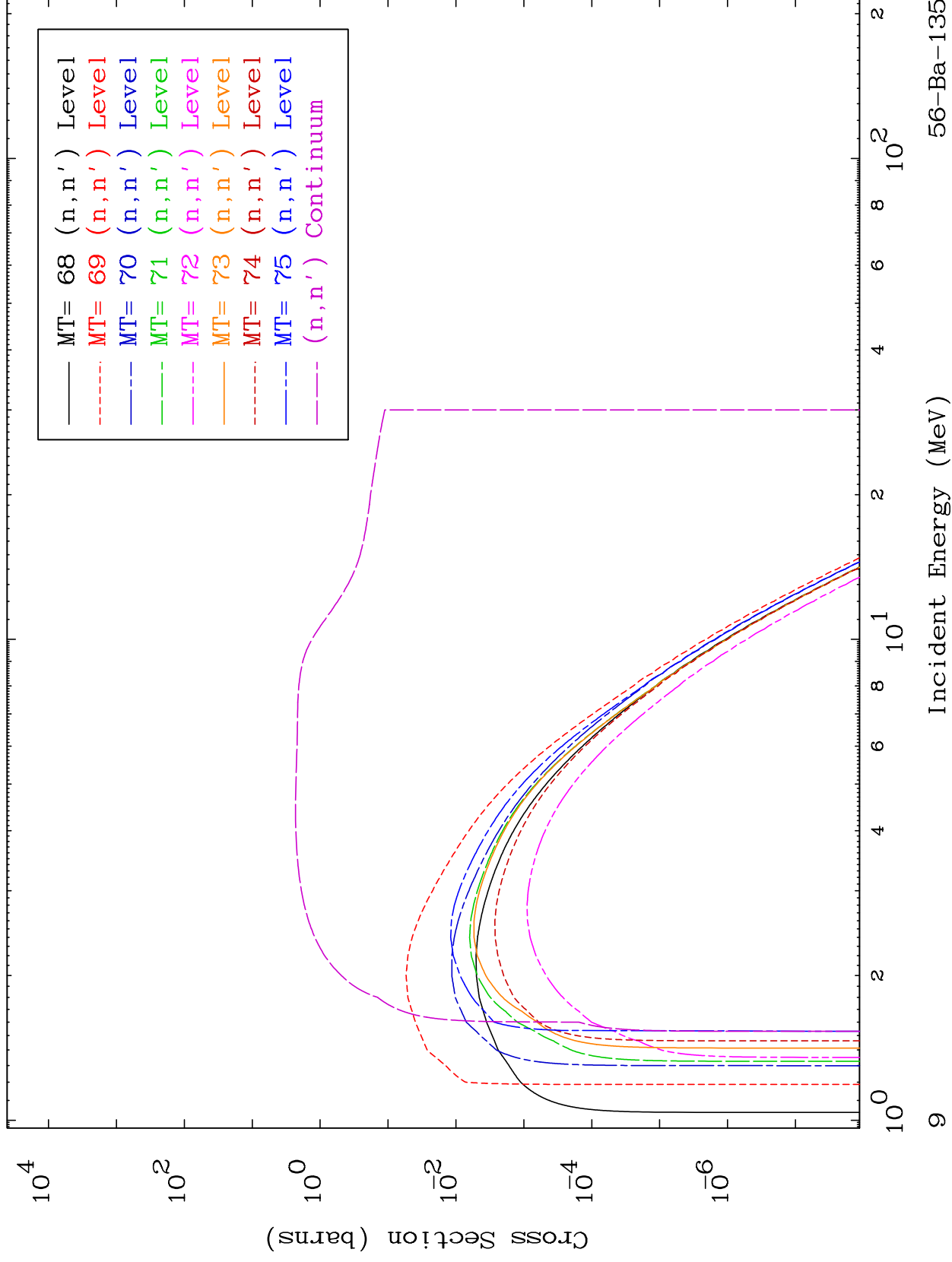
56-Ba-135

MAT 5641

(n,n') Level

56-Ba-135

293 Kelvin Cross Sections



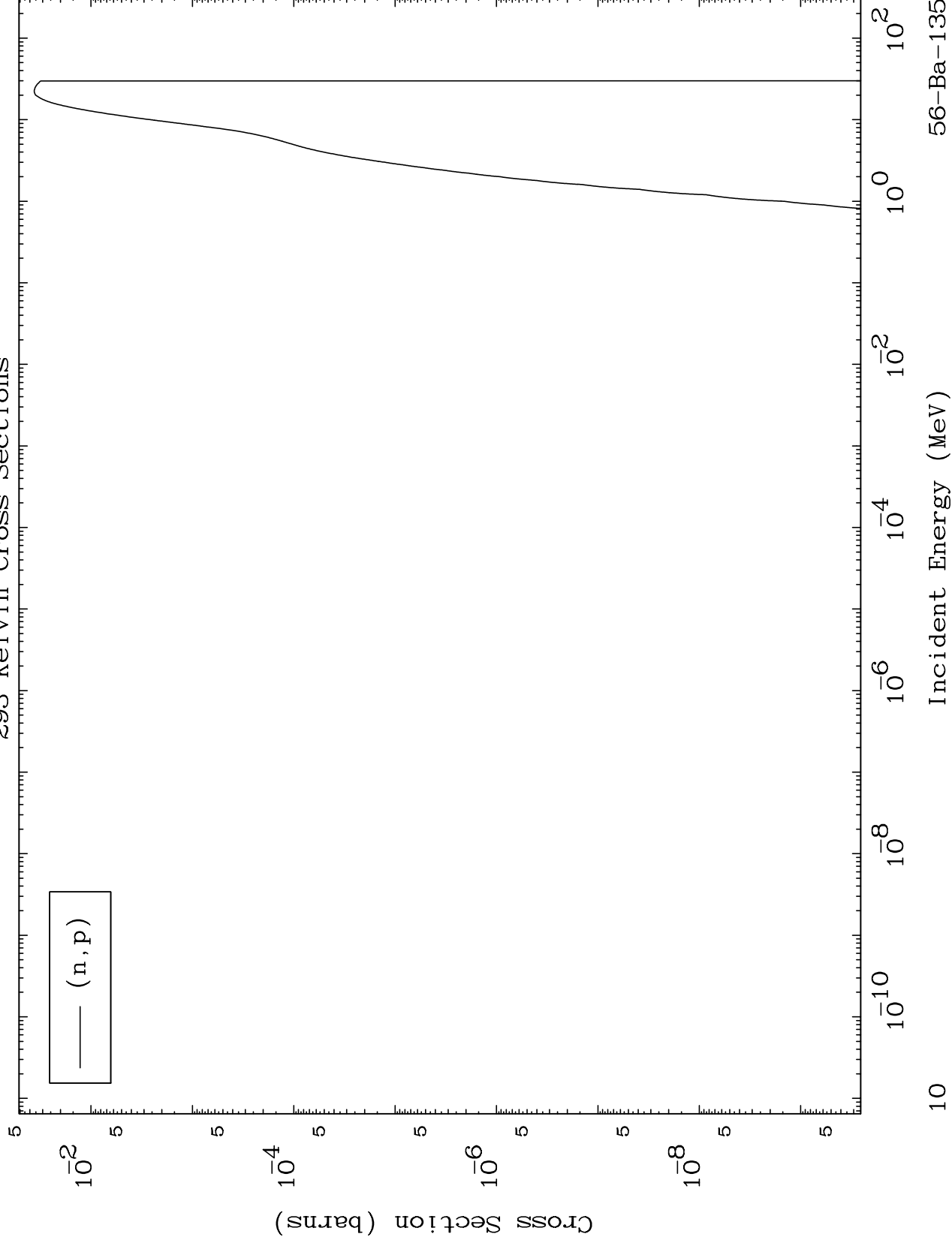
Incident Energy (MeV)

56-Ba-135

MAT 5641

(n,p) Levels
293 Kelvin Cross Sections

56-Ba-135



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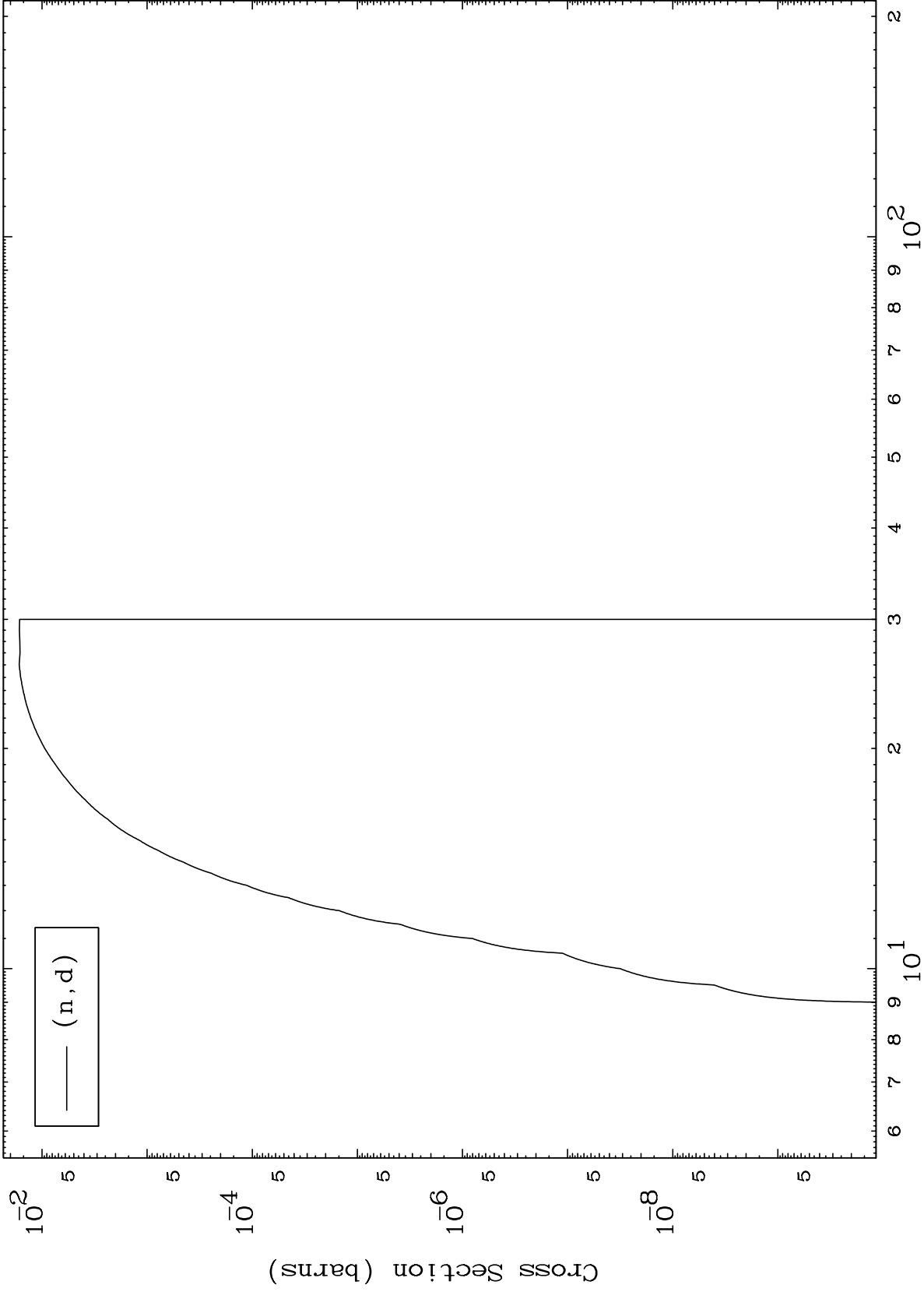
Incident Energy (MeV)

56-Ba-135

MAT 5641

(n,d) Levels
293 Kelvin Cross Sections

56-Ba-135



11

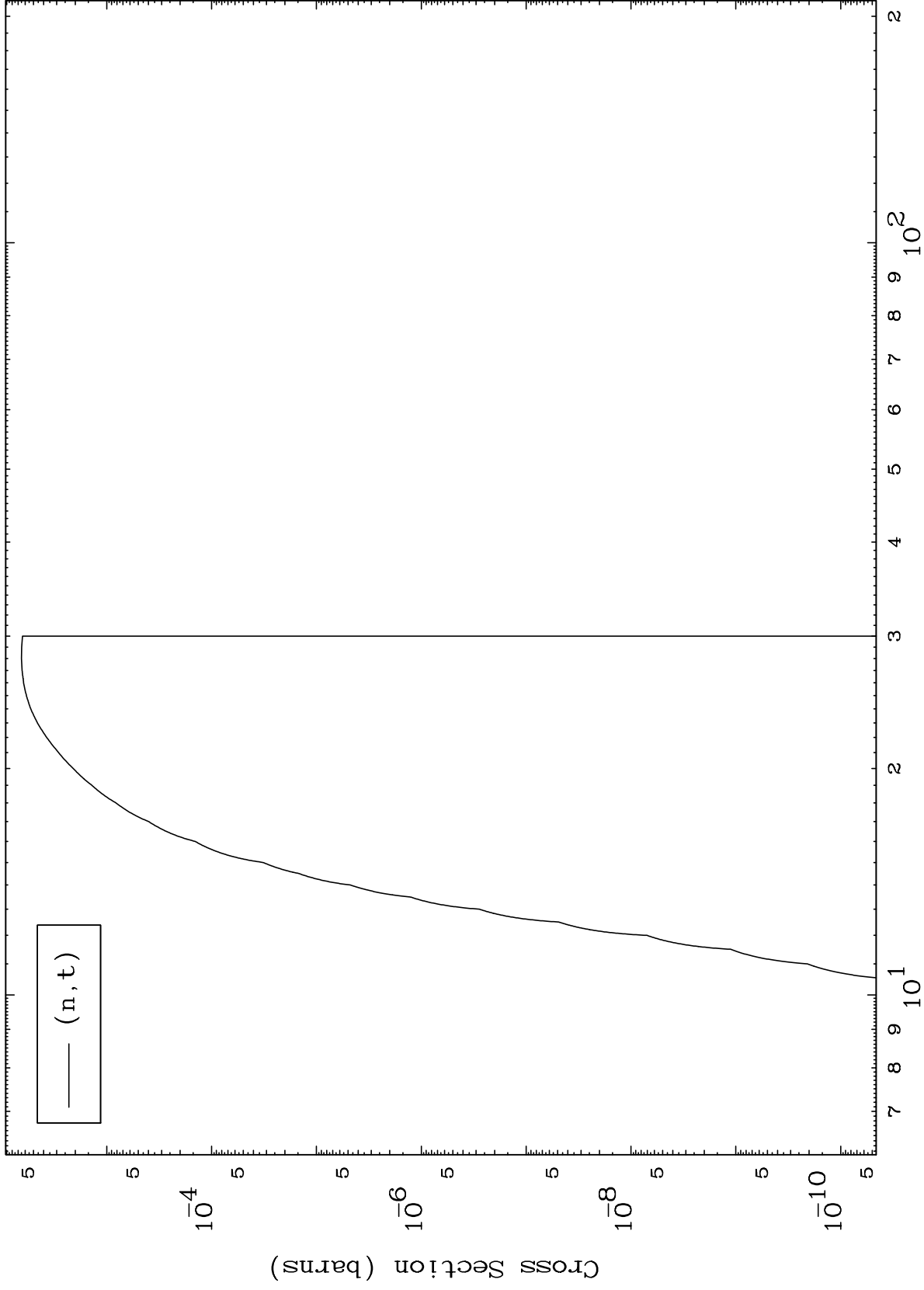
Incident Energy (MeV)

56-Ba-135

MAT 5641

(n,t) Levels
293 Kelvin Cross Sections

56-Ba-135



12

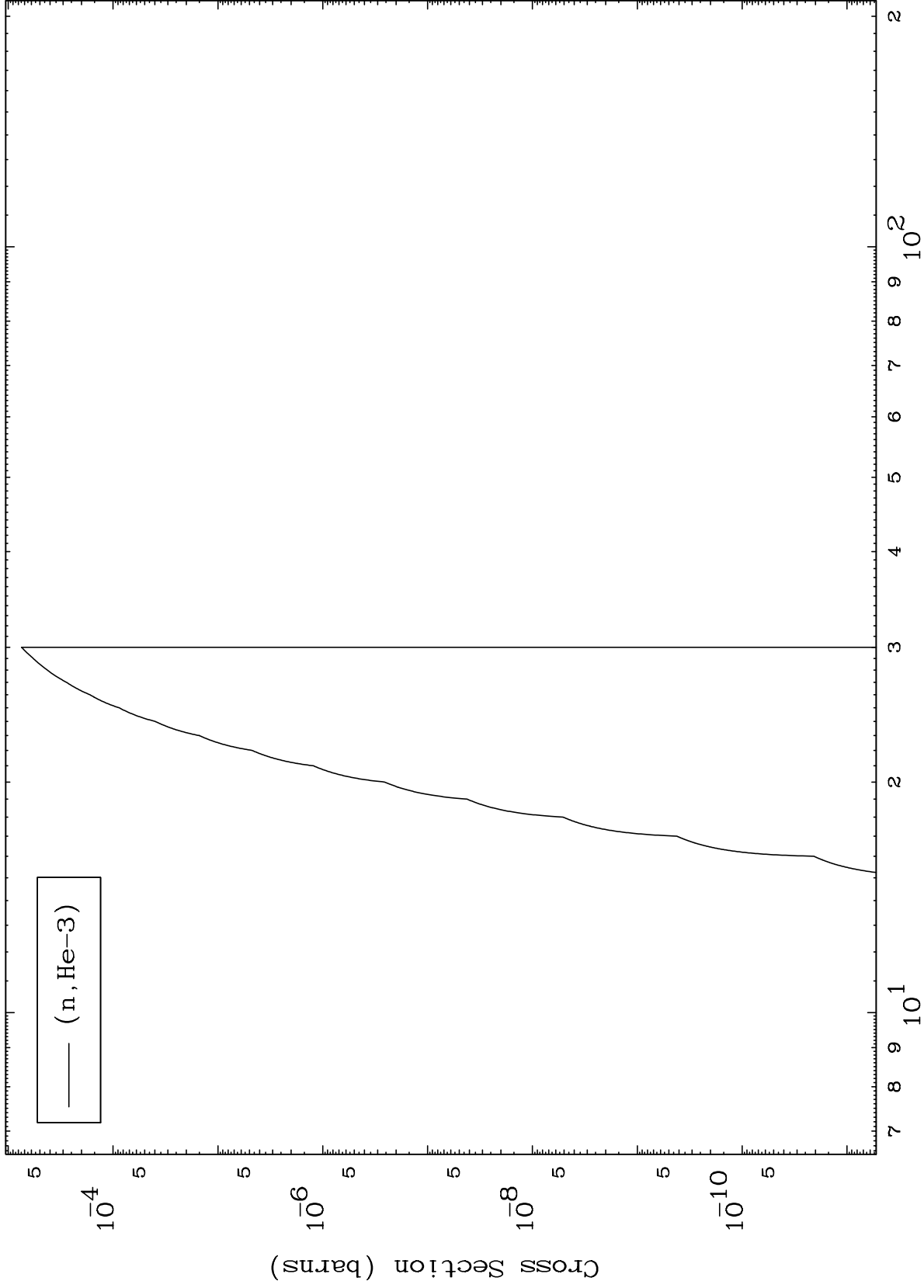
Incident Energy (MeV)

56-Ba-135

MAT 5641

(n,He3) Levels
293 Kelvin Cross Sections

56-Ba-135



13

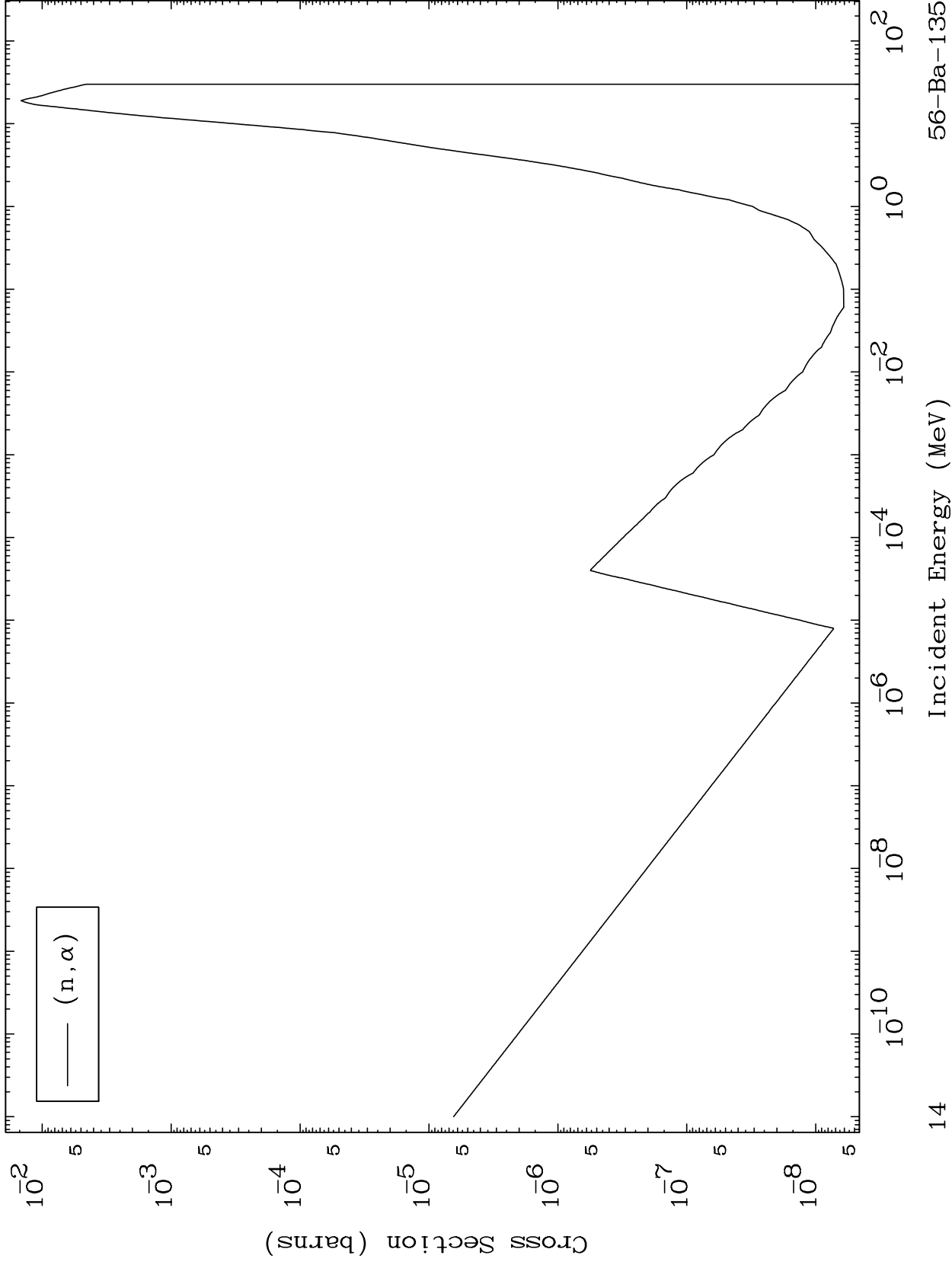
Incident Energy (MeV)

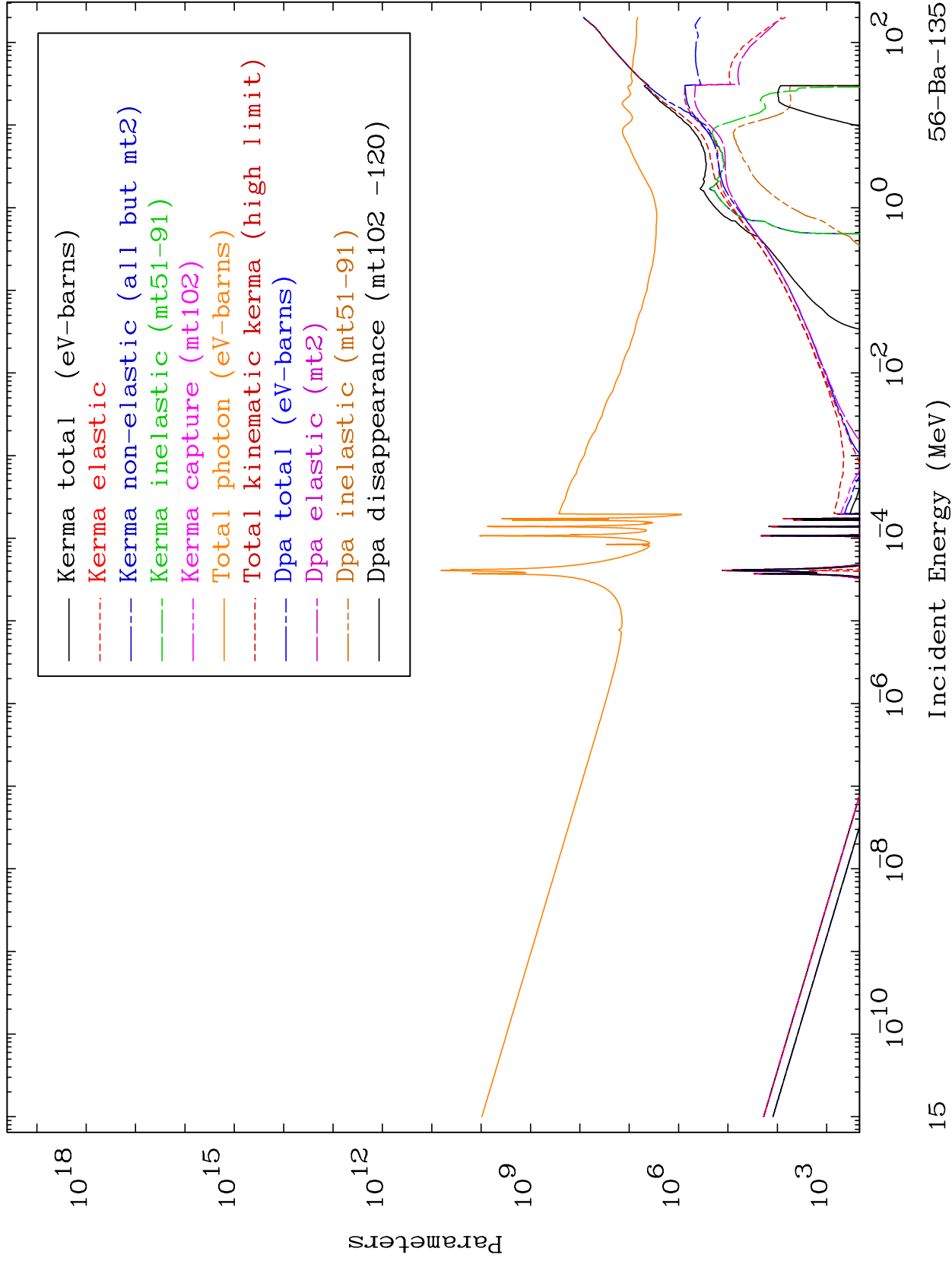
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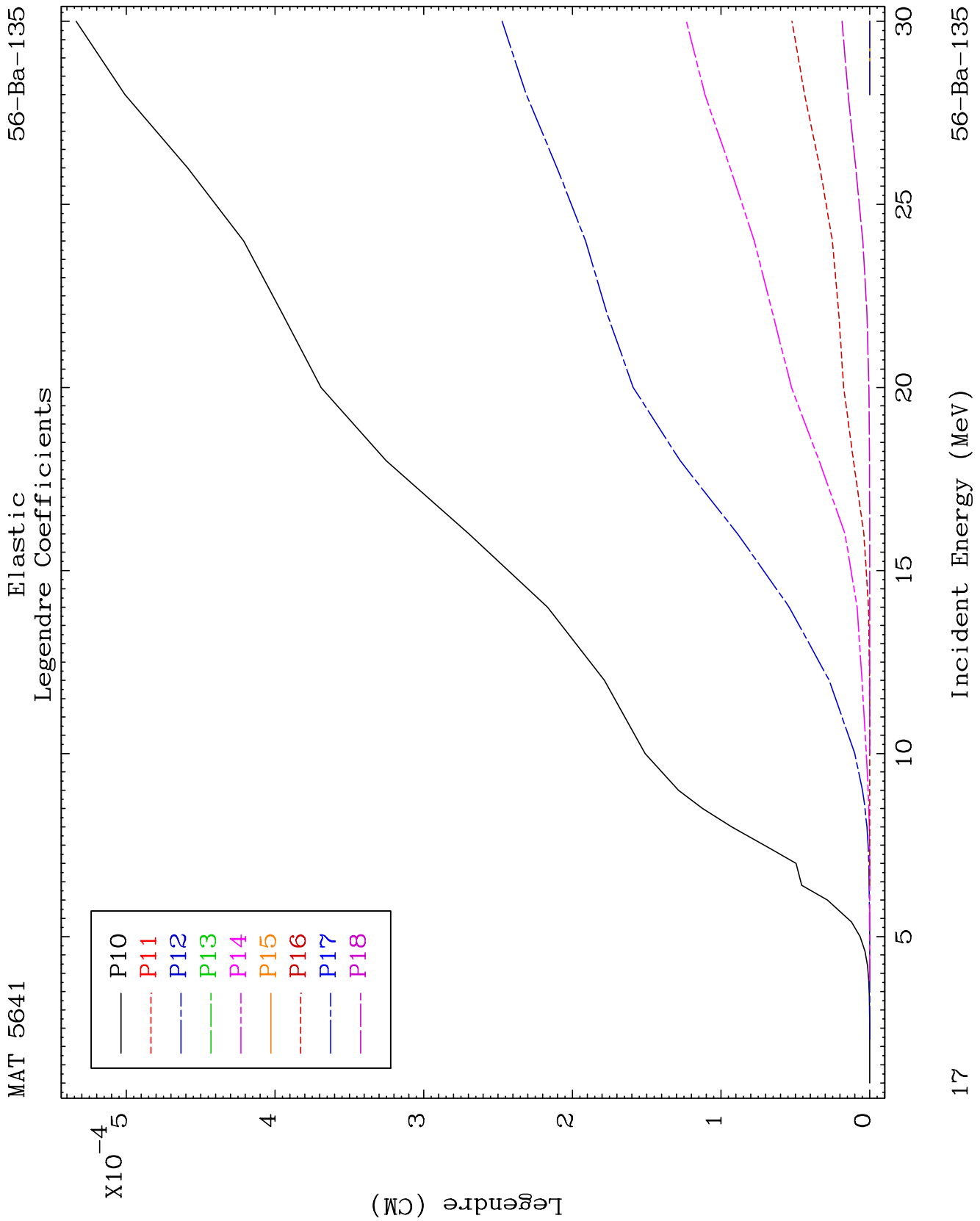
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(n, α) Levels
293 Kelvin Cross Sections

56-Ba-135



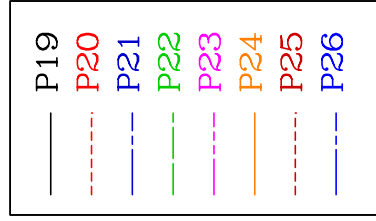




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Elastic Legendre Coefficients

56-Ba-135



$\times 10^{-6}$
1.5

Legendre (CM)

1.0

0.5

0.0

15

20

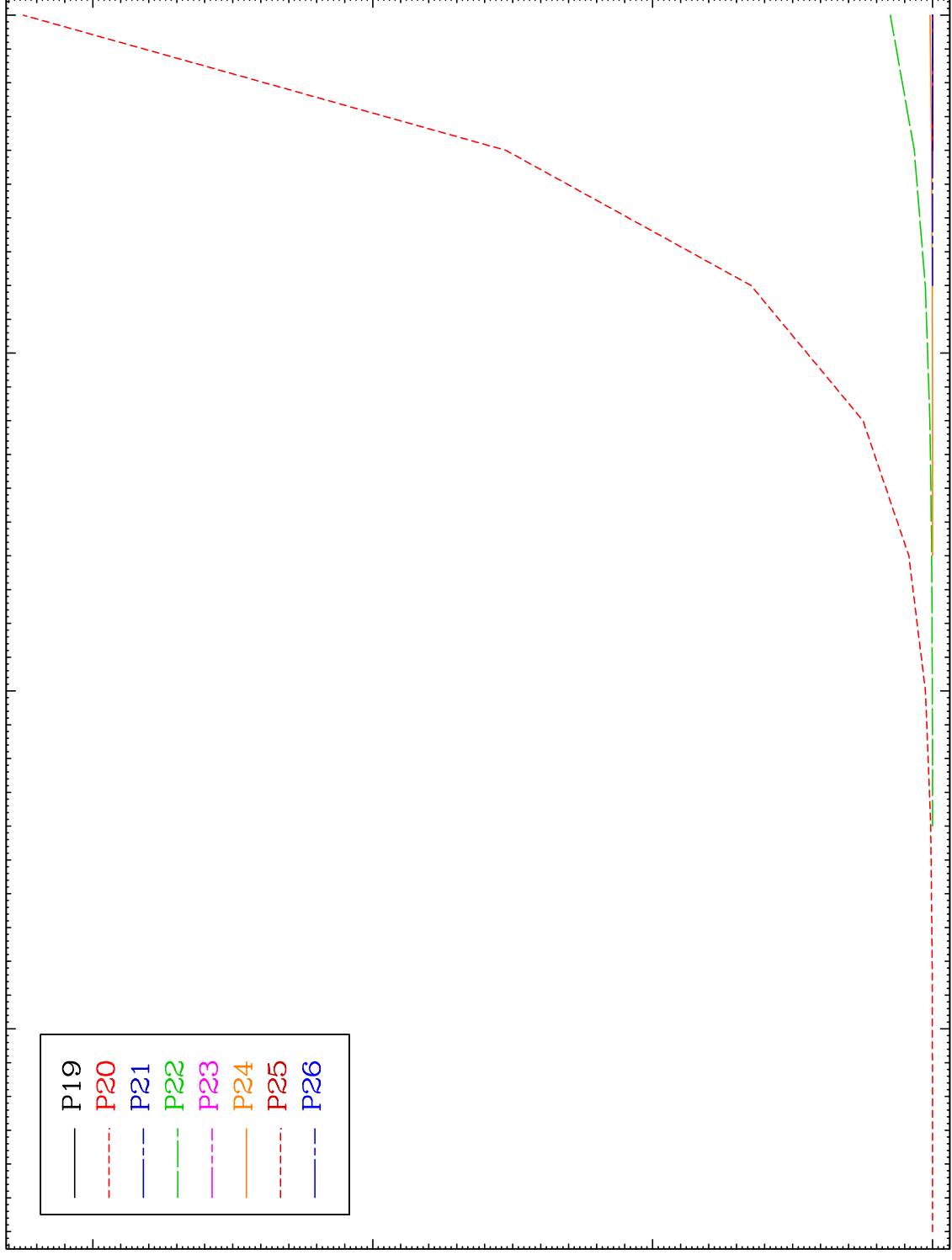
25

30

18

Incident Energy (MeV)

56-Ba-135

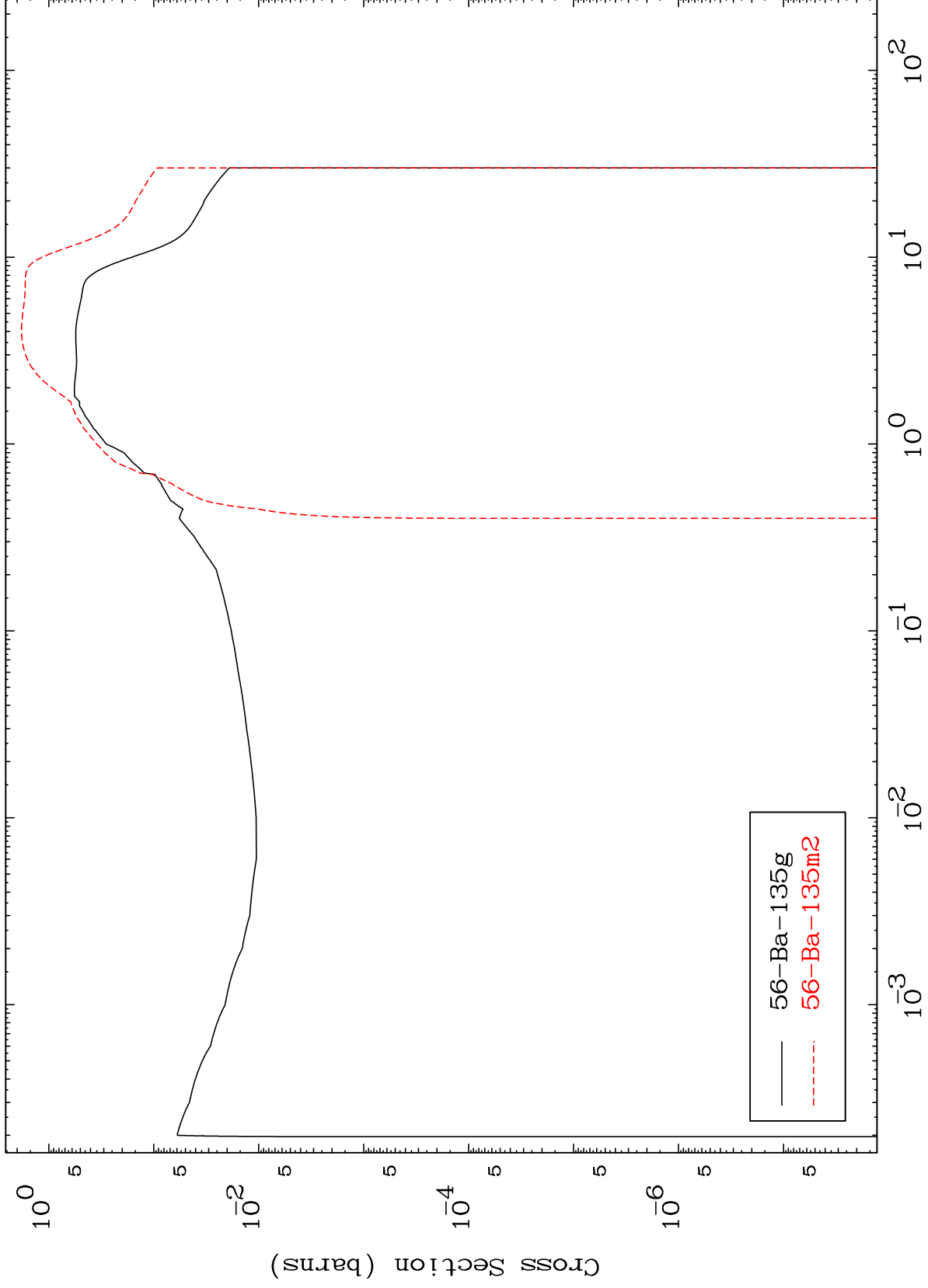


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56-Ba-135

Inelastic

Radionuclide Production Cross Section



19

56-Ba-135

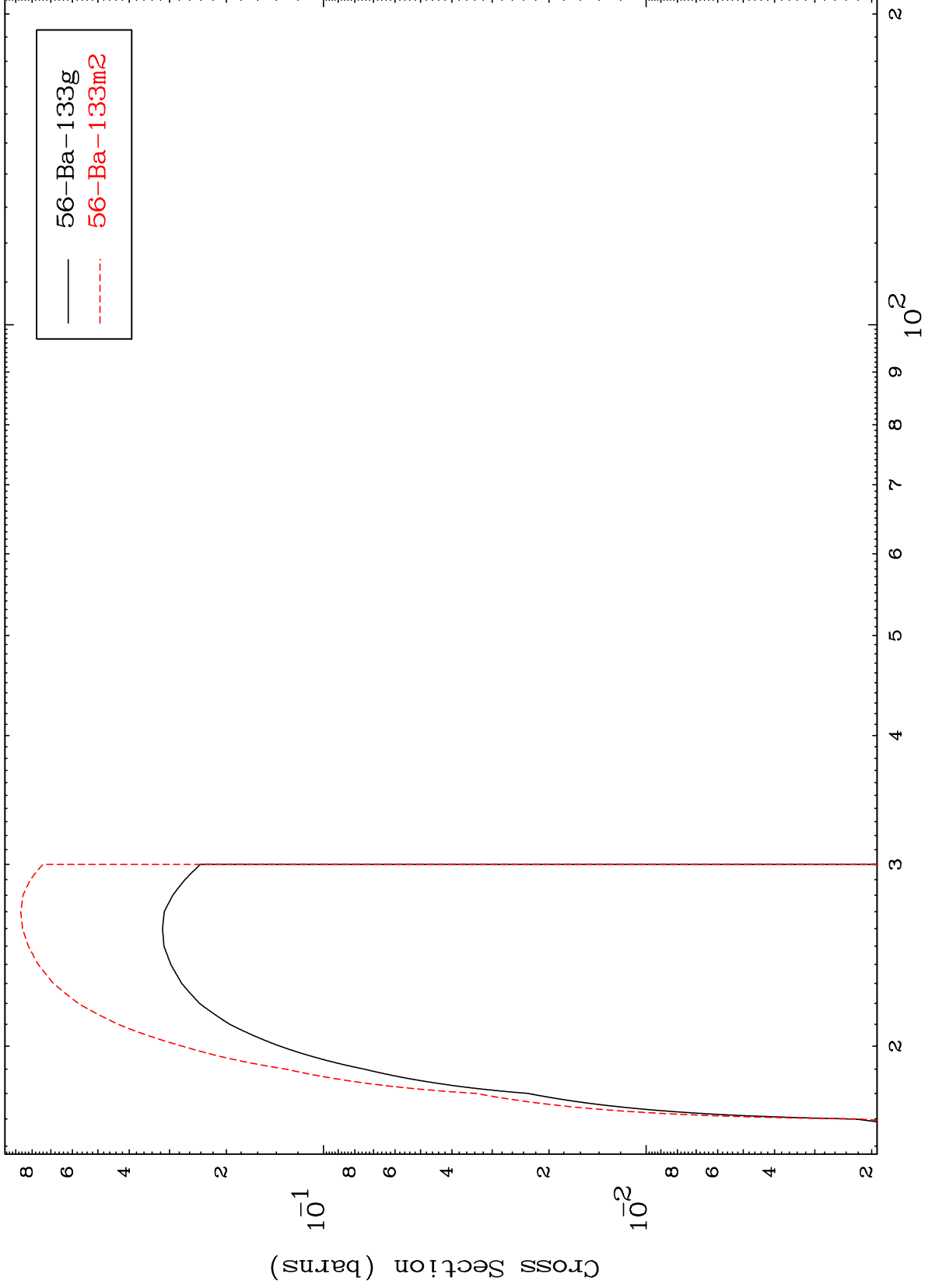
Incident Energy (MeV)

MAT 5641

(n,3n)

56-Ba-135

Radionuclide Production Cross Section



20

Incident Energy (MeV)

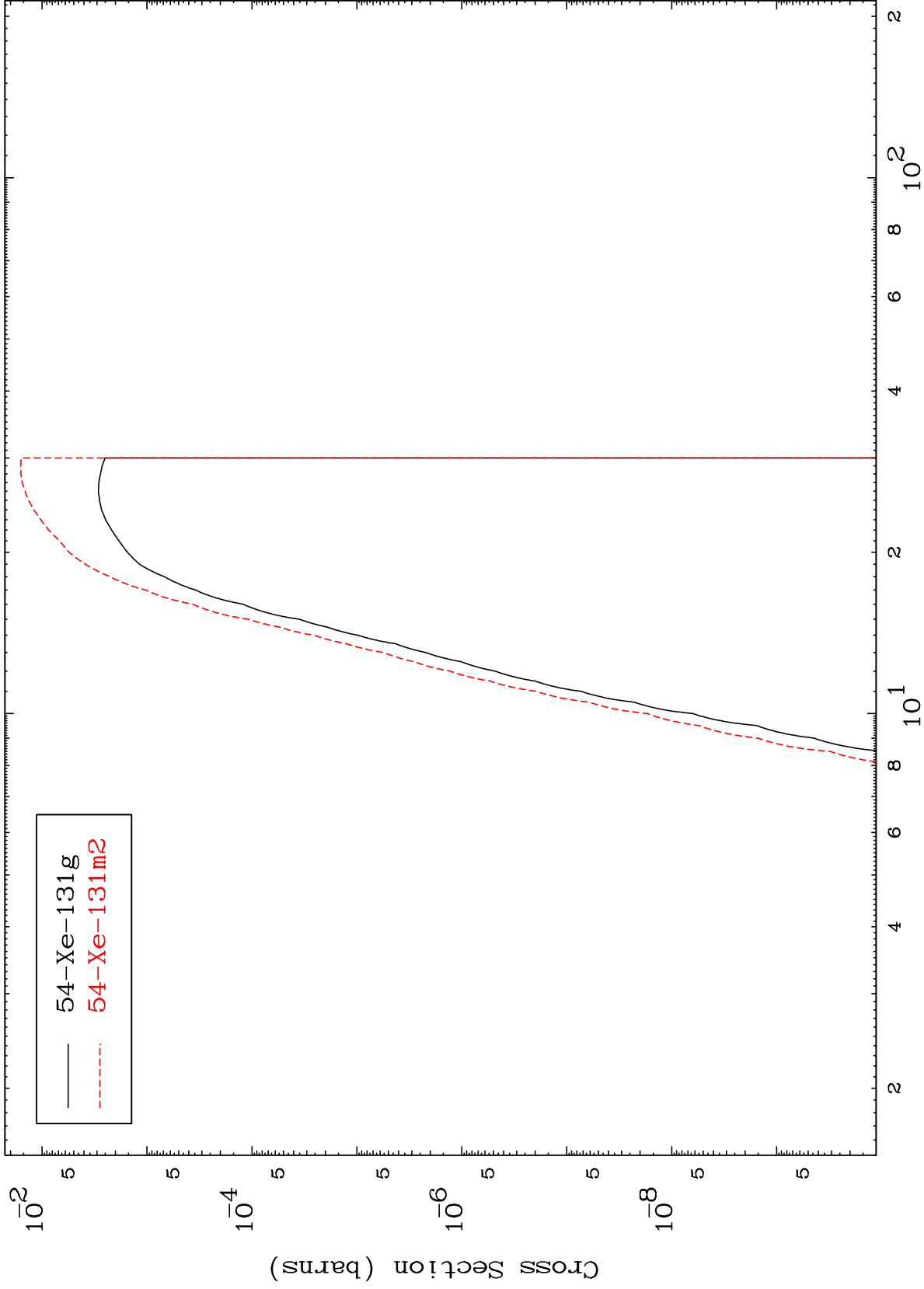
56-Ba-135

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$(n, n') \alpha$

56-Ba-135

Radionuclide Production Cross Section



21

Incident Energy (MeV)

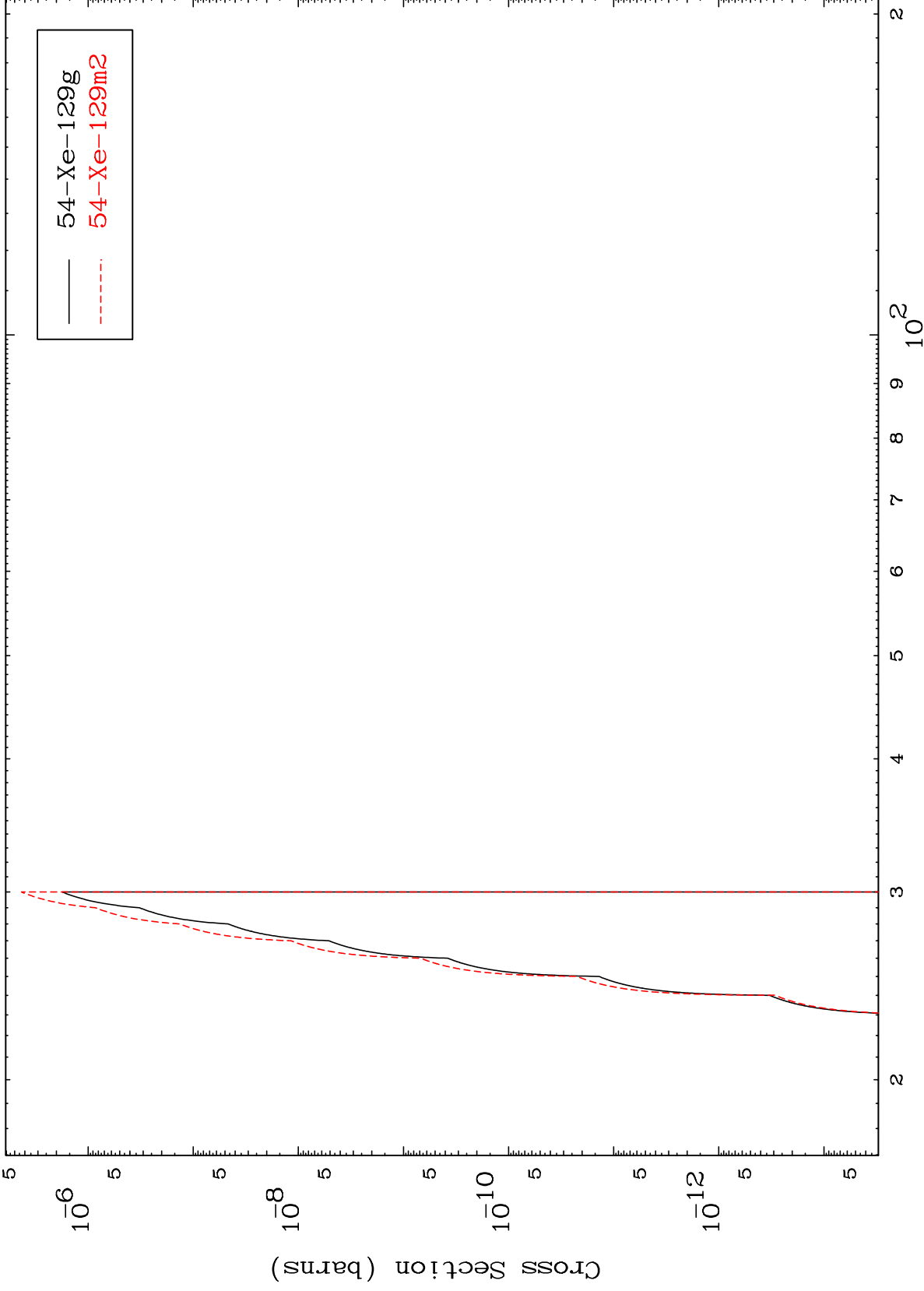
56-Ba-135

MAT 5641

(n,3n) α

56-Ba-135

Radionuclide Production Cross Section



22

Incident Energy (MeV)

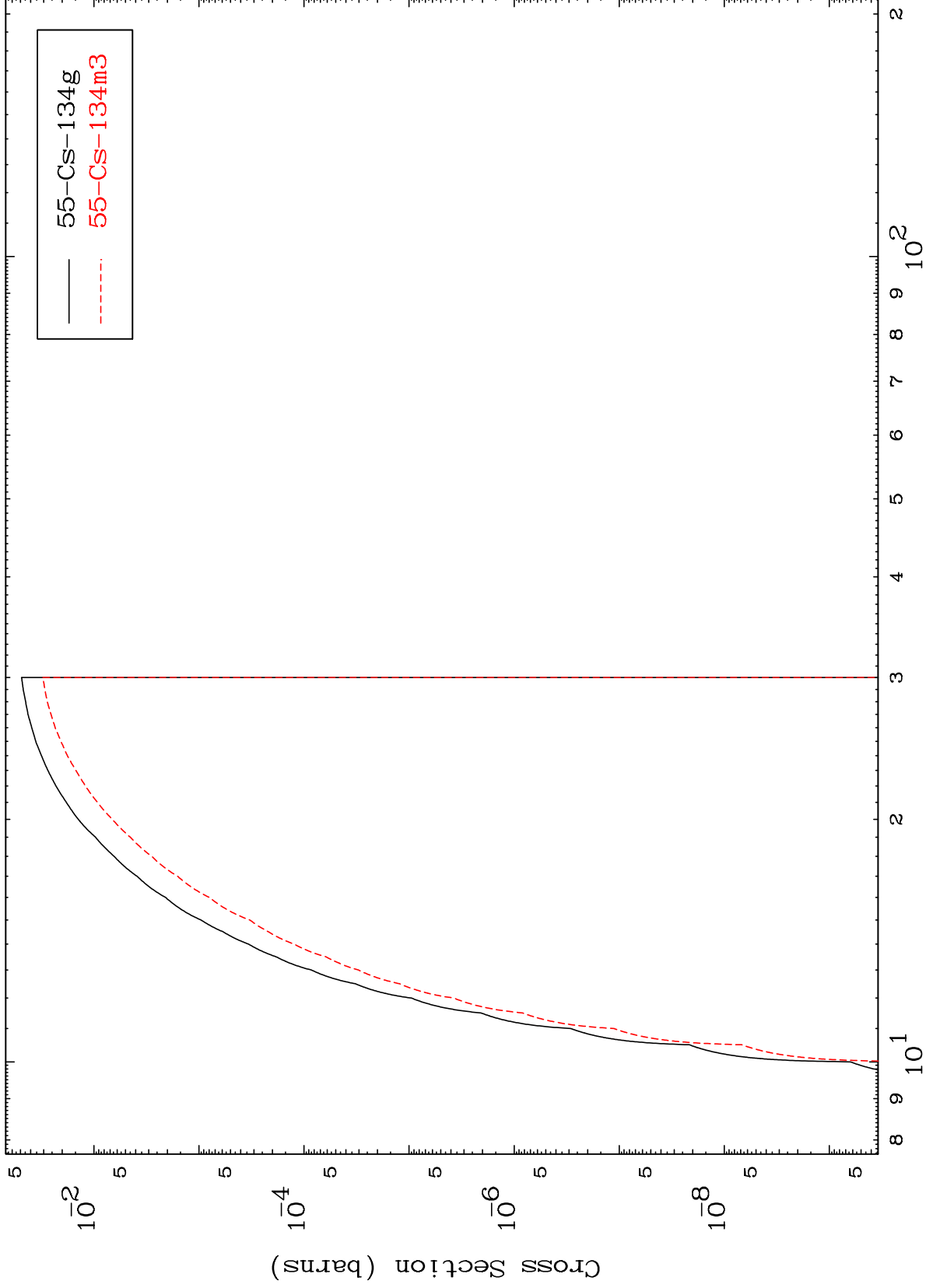
56-Ba-135

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(n,n') p

56-Ba-135

Radionuclide Production Cross Section



23

Incident Energy (MeV)

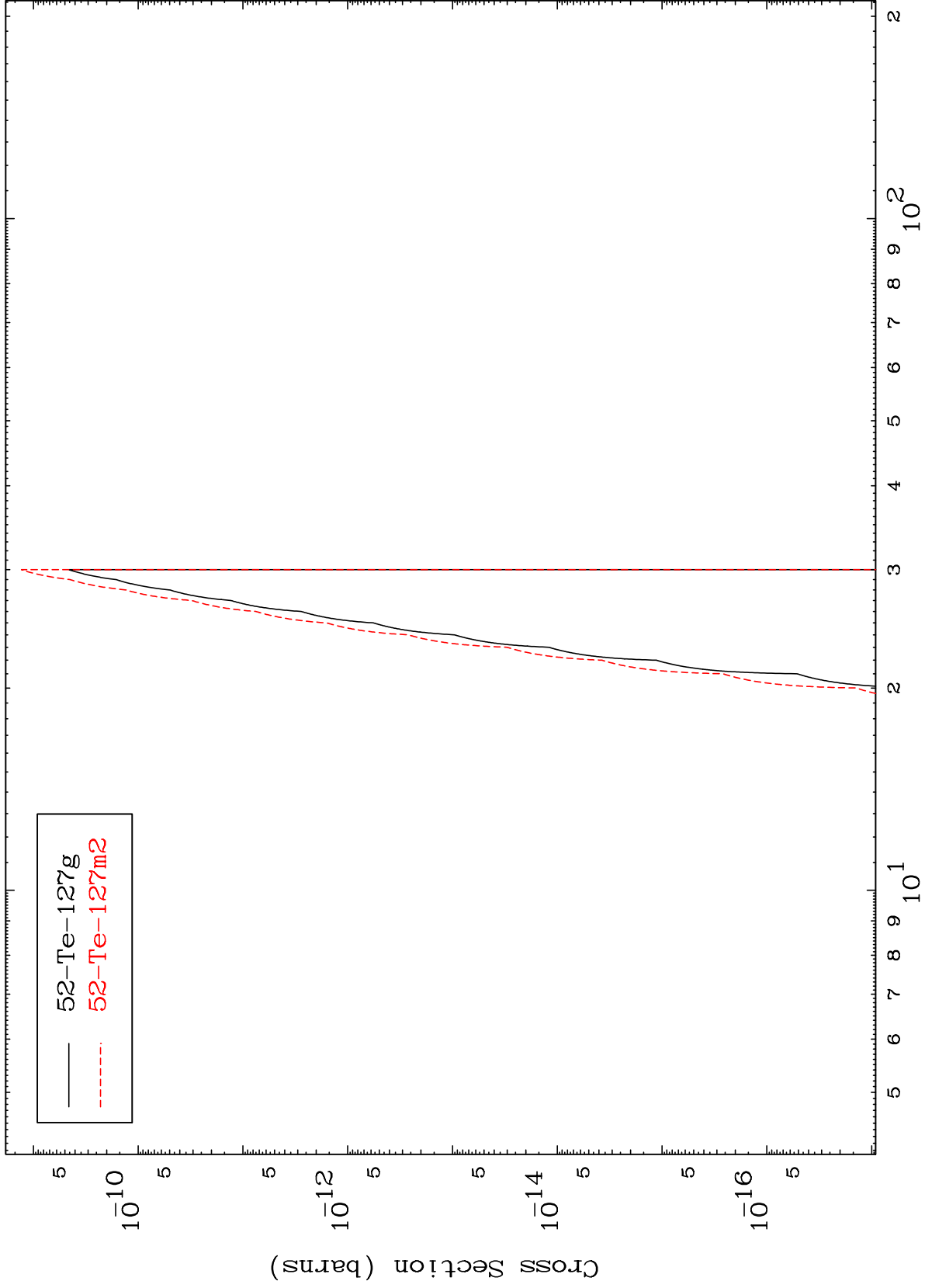
56-Ba-135

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(n, n') 2α

56-Ba-135

Radionuclide Production Cross Section



24

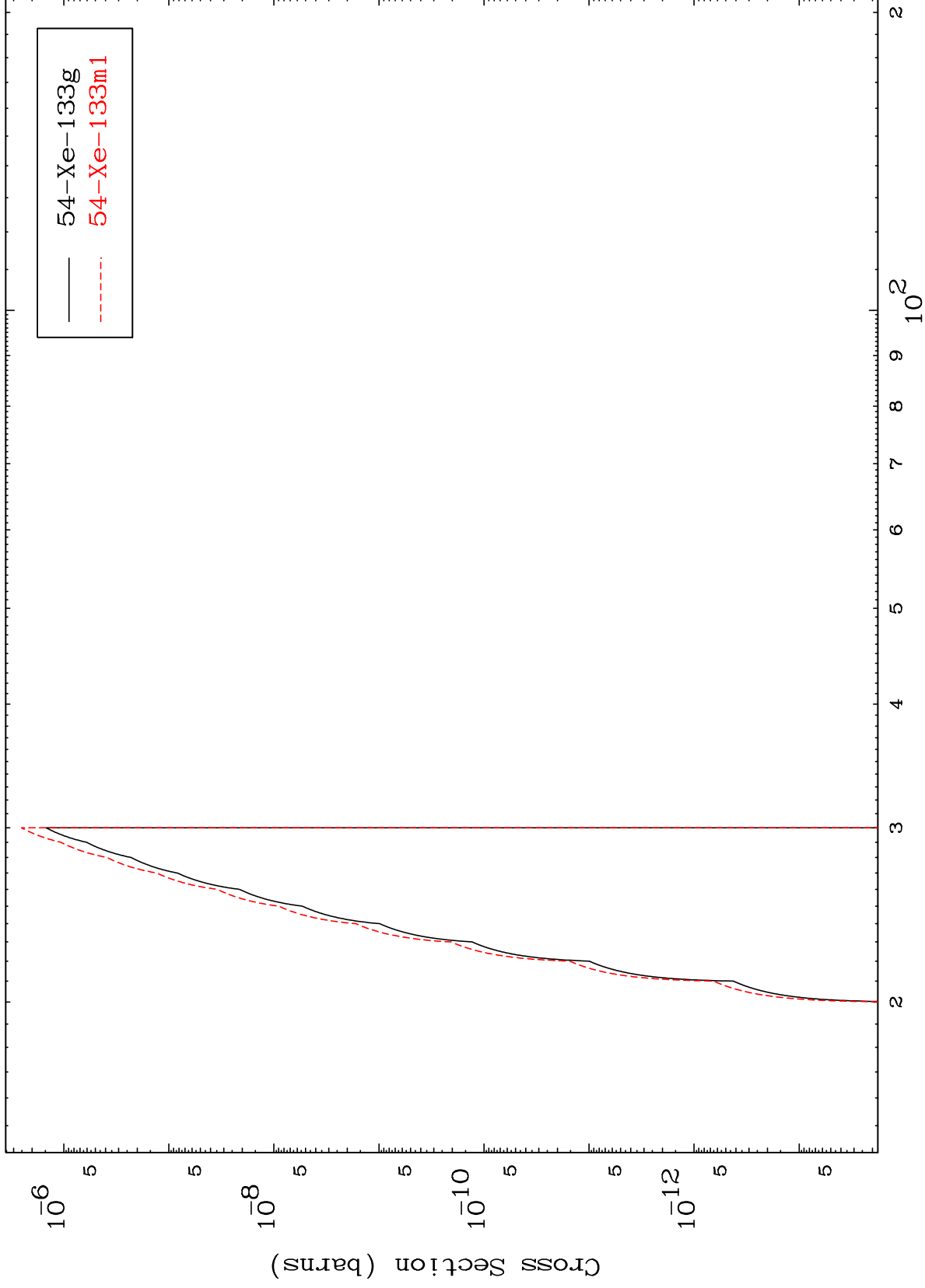
Incident Energy (MeV)

56-Ba-135

MAT 5641

56-Ba-135

(n,2n) p
Radionuclide Production Cross Section

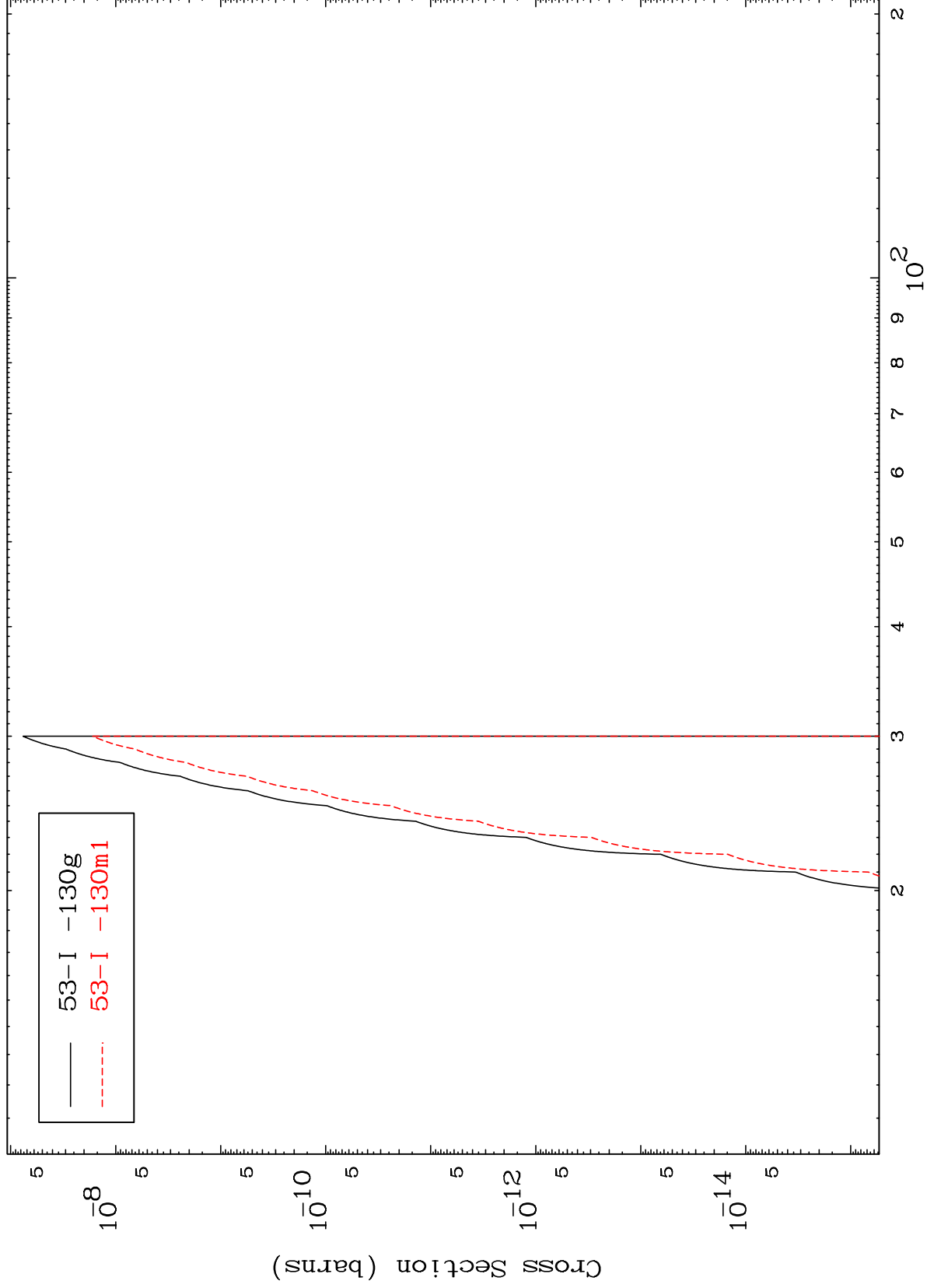


25

56-Ba-135

Incident Energy (MeV)

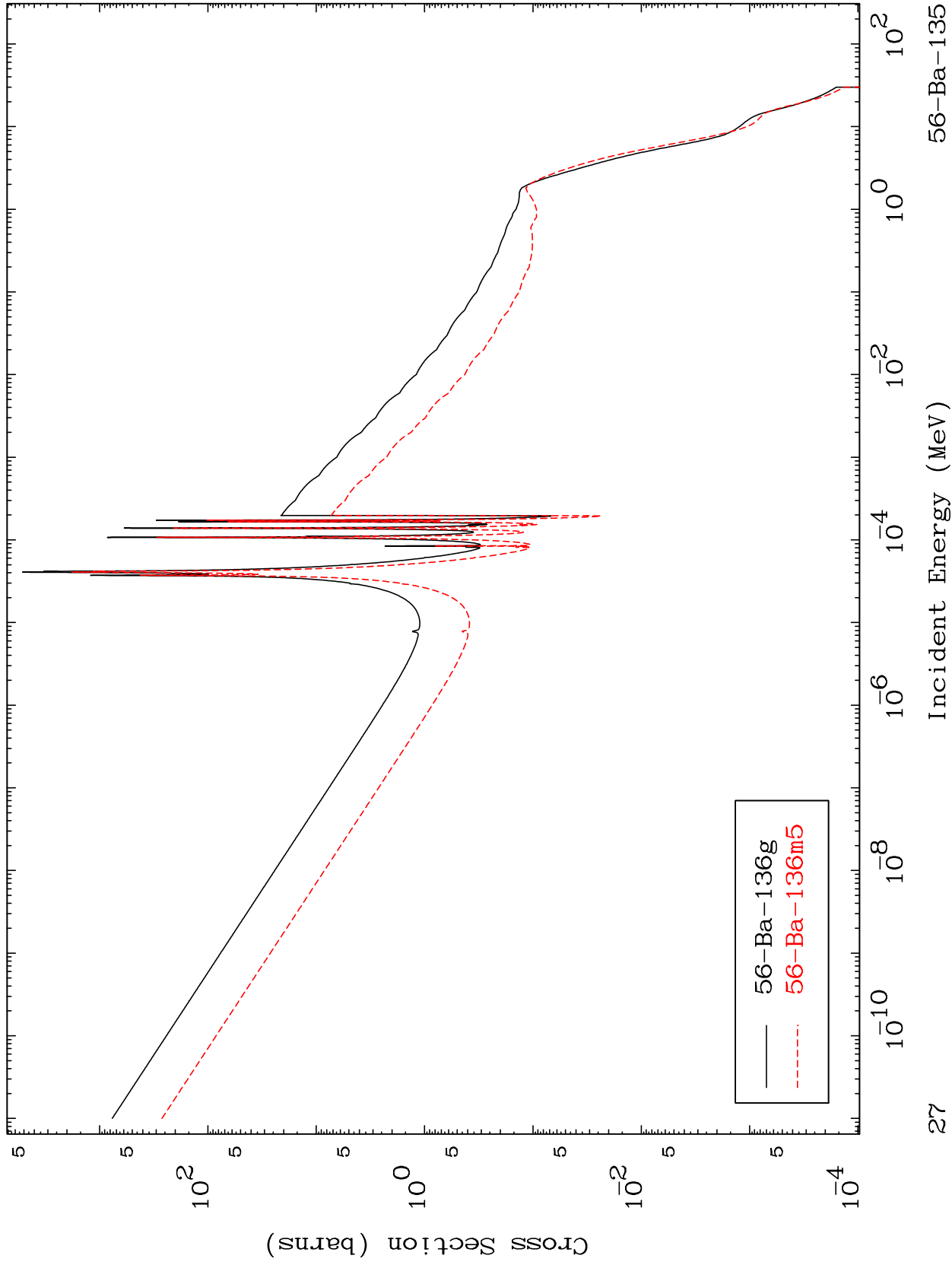
Radionuclide Production Cross Section



MAT 5641

56-Ba-135

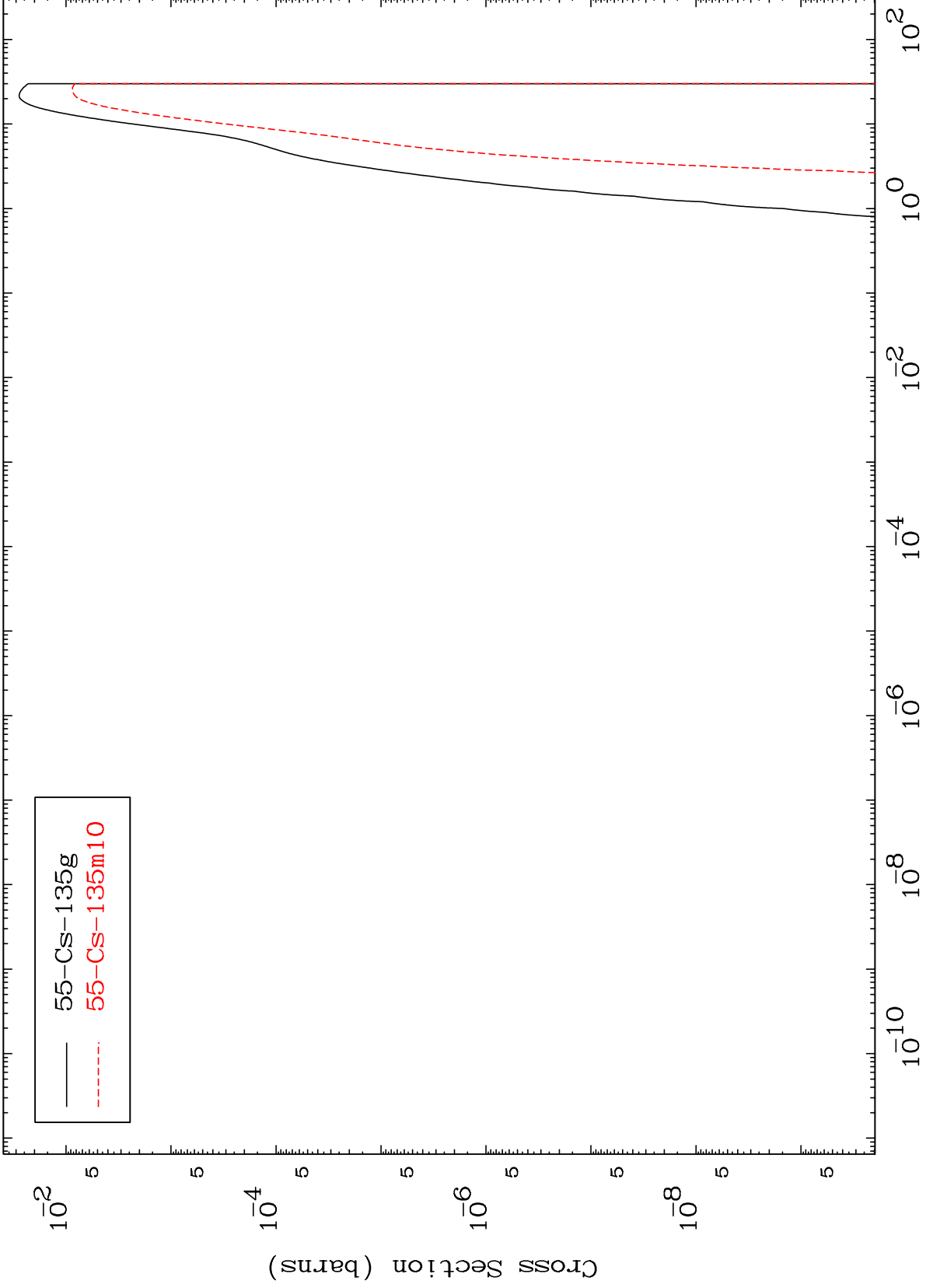
(n, γ)
Radionuclide Production Cross Section



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(n,p)
Radionuclide Production Cross Section

56-Ba-135



28

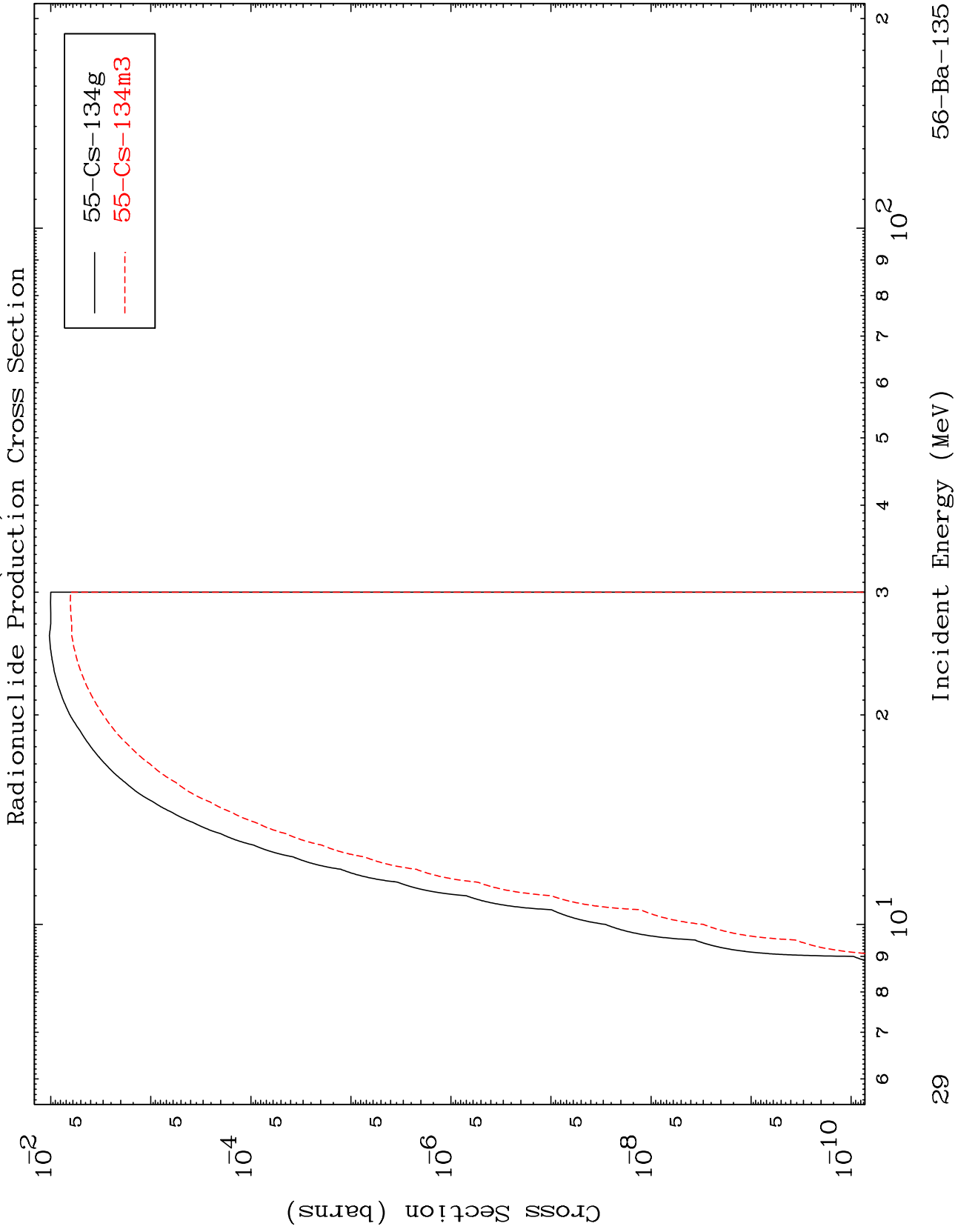
Incident Energy (MeV)

56-Ba-135

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(n,d)

56-Ba-135



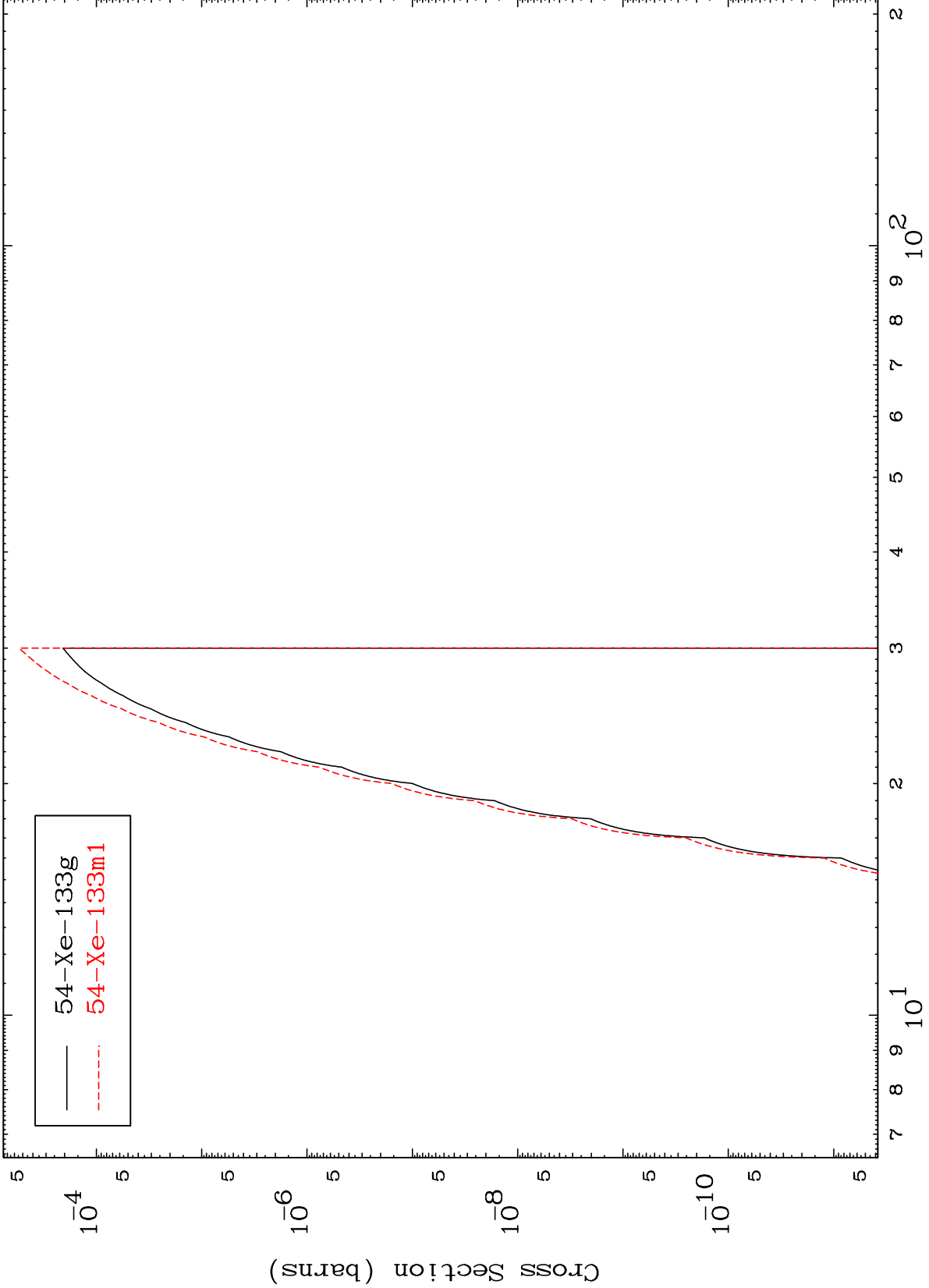
29

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(n,He-3)

56-Ba-135

Radionuclide Production Cross Section



54-Xe-133g
54-Xe-133m1

30

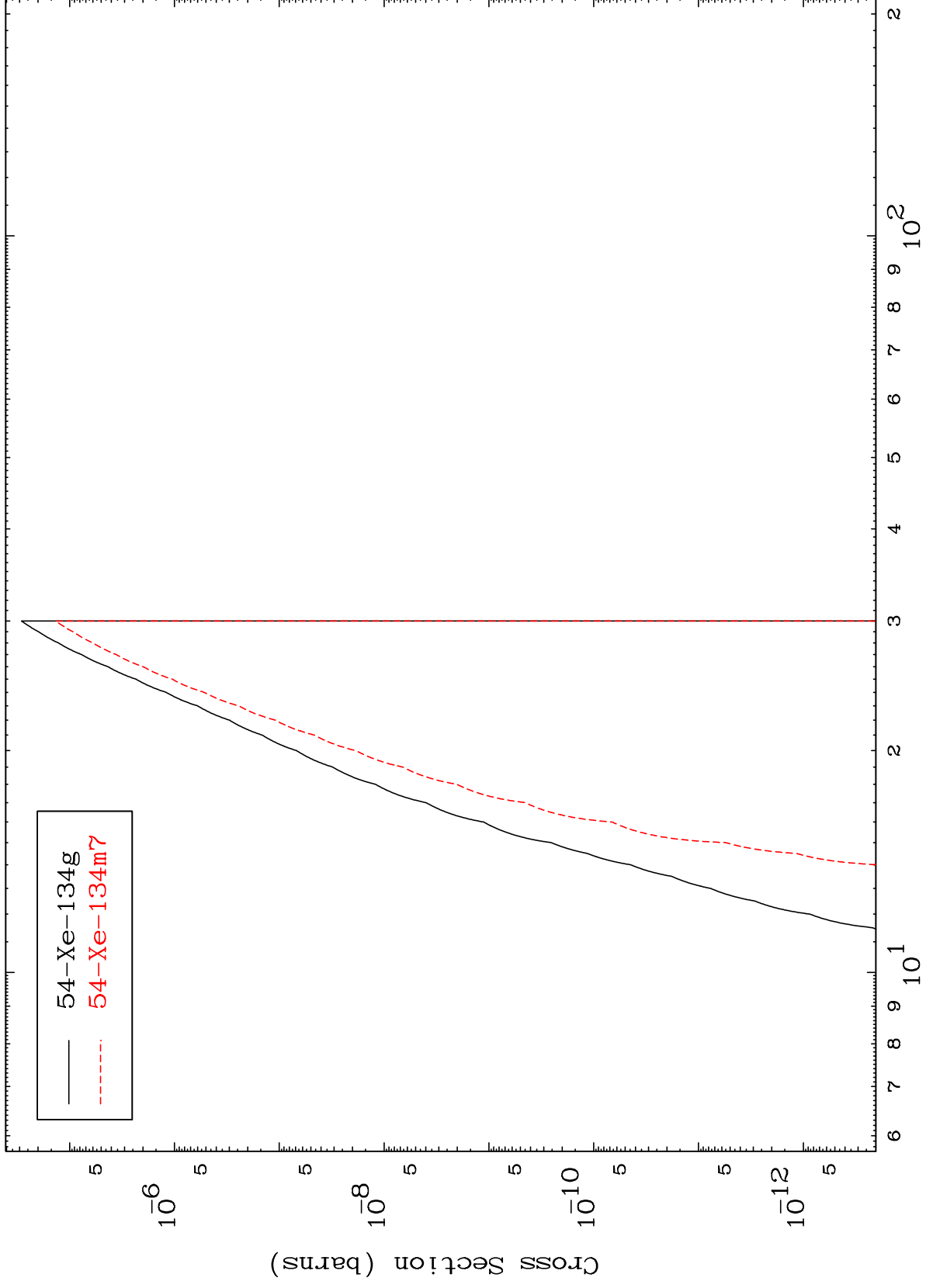
Incident Energy (MeV)

56-Ba-135

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56-Ba-135

(n,2p)
Radionuclide Production Cross Section



31

Incident Energy (MeV)

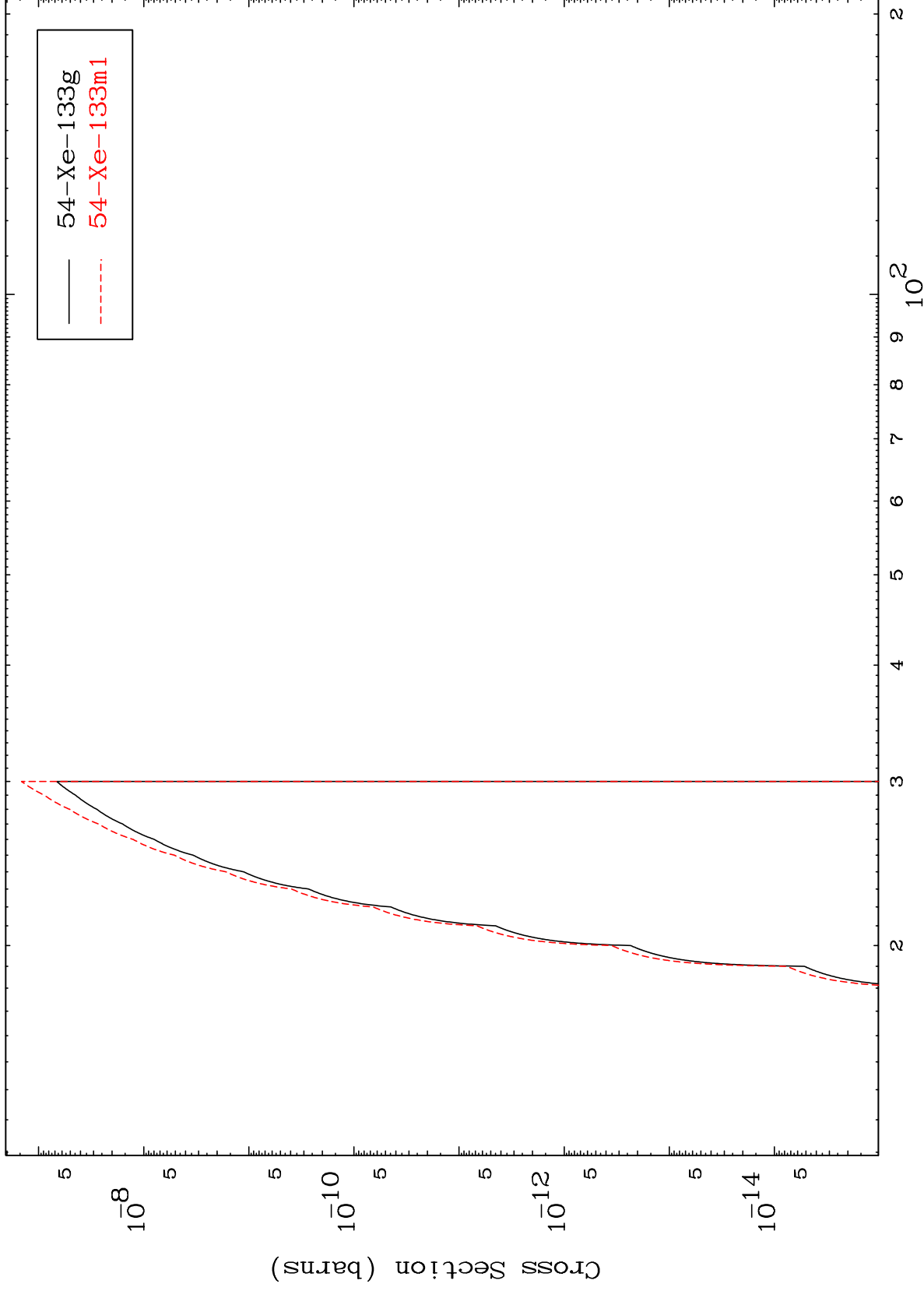
56-Ba-135

MAT 5641

(n,p) d

56-Ba-135

Radionuclide Production Cross Section



32

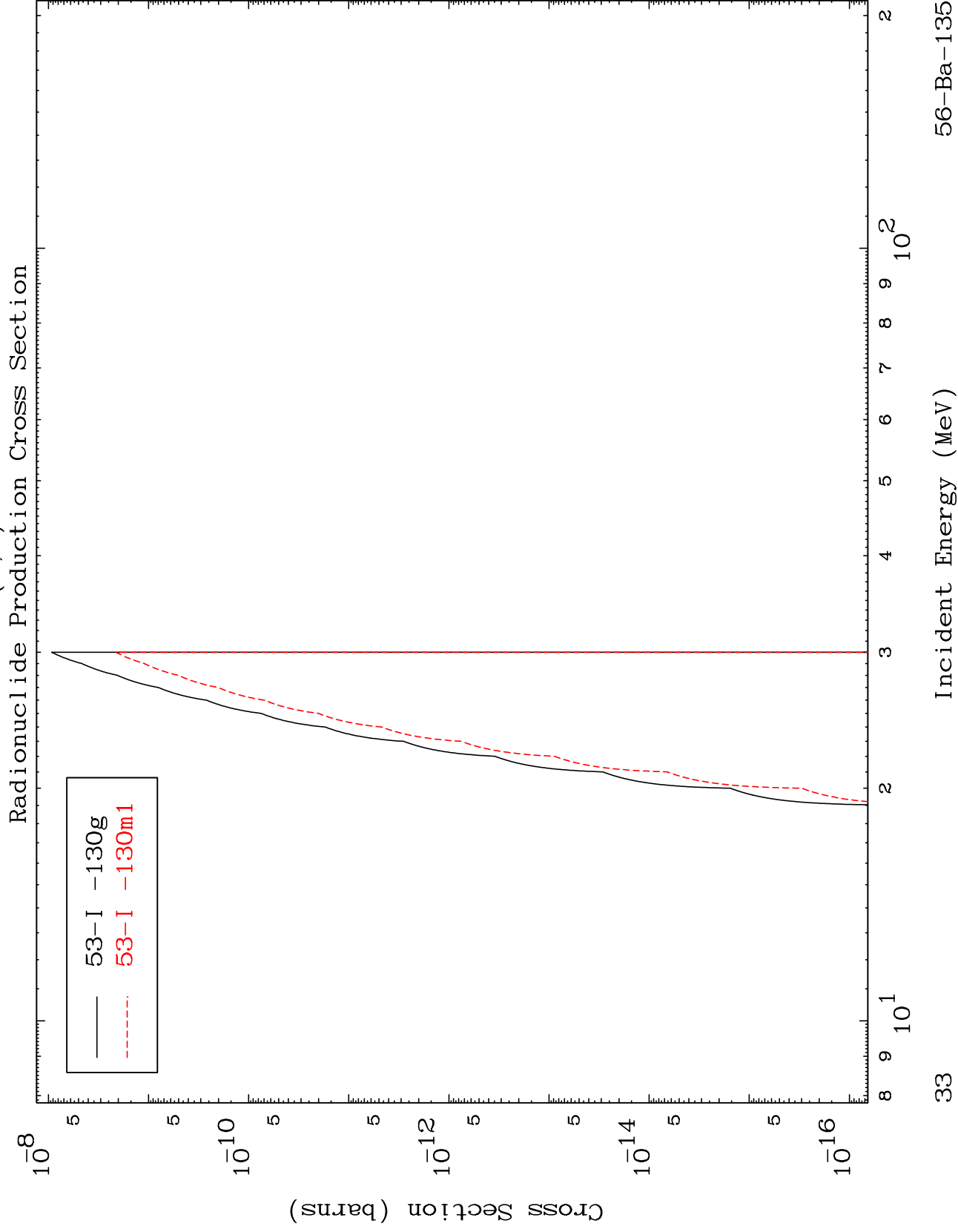
Incident Energy (MeV)

56-Ba-135

MAT 5641

(n,d) α

56-Ba-135



33