

Program EVALPLOT
(Version 2021-1)

by

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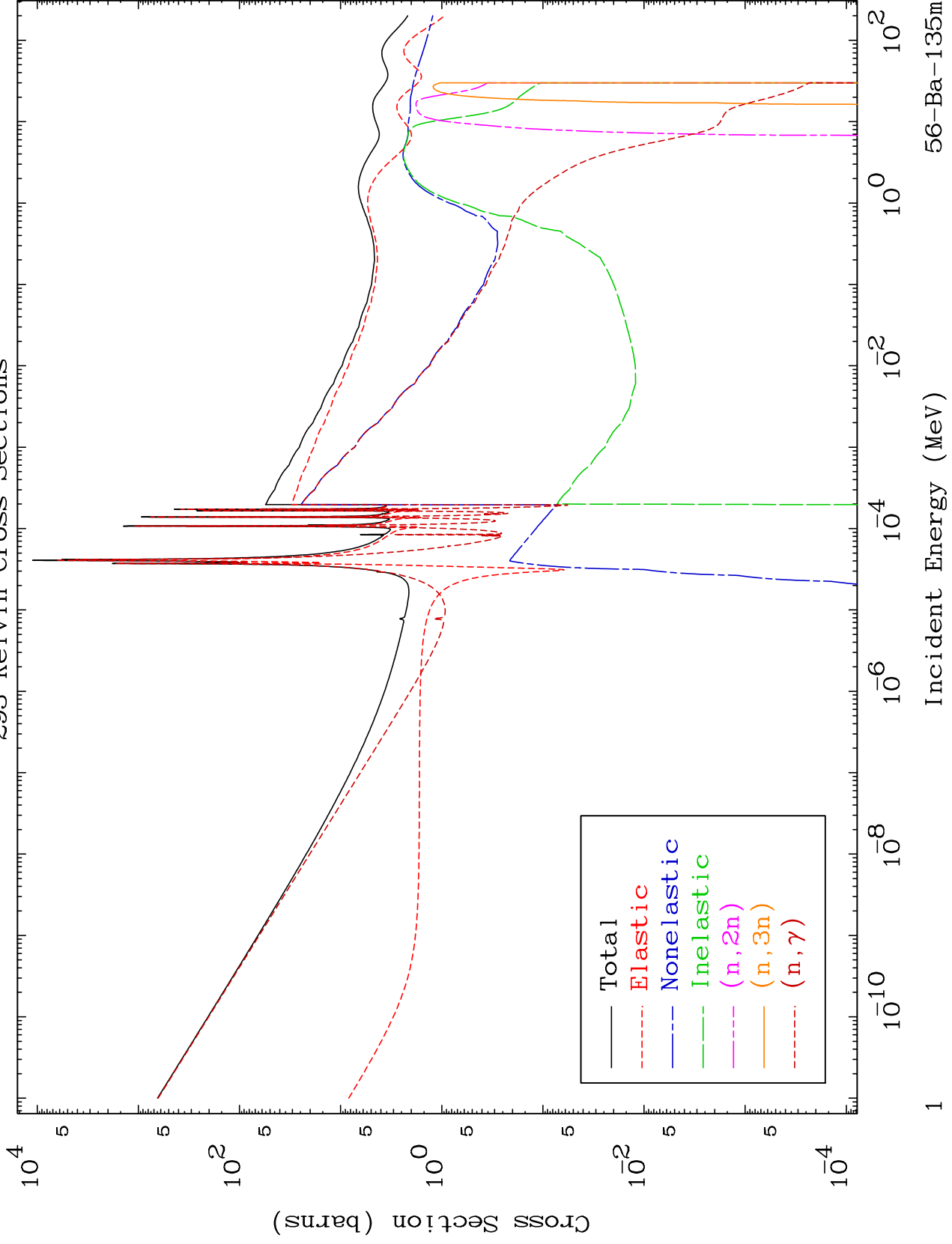
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Press Mouse Button to Start

MAT 5641

Neutron Major
293 Kelvin Cross Sections

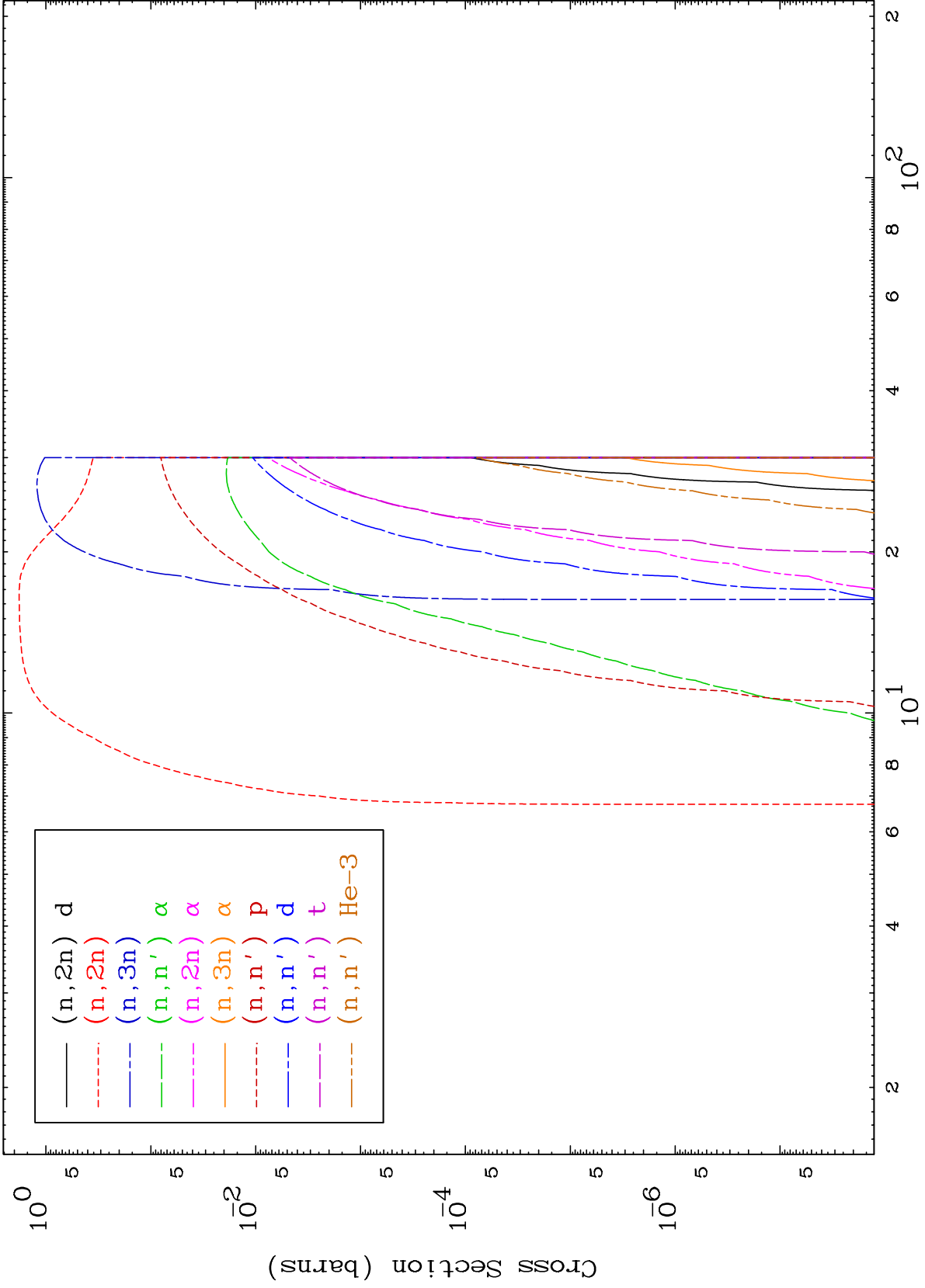
56-Ba-135m



MAT 5641

Neutron Absorption
293 Kelvin Cross Sections

56-Ba-135m



2

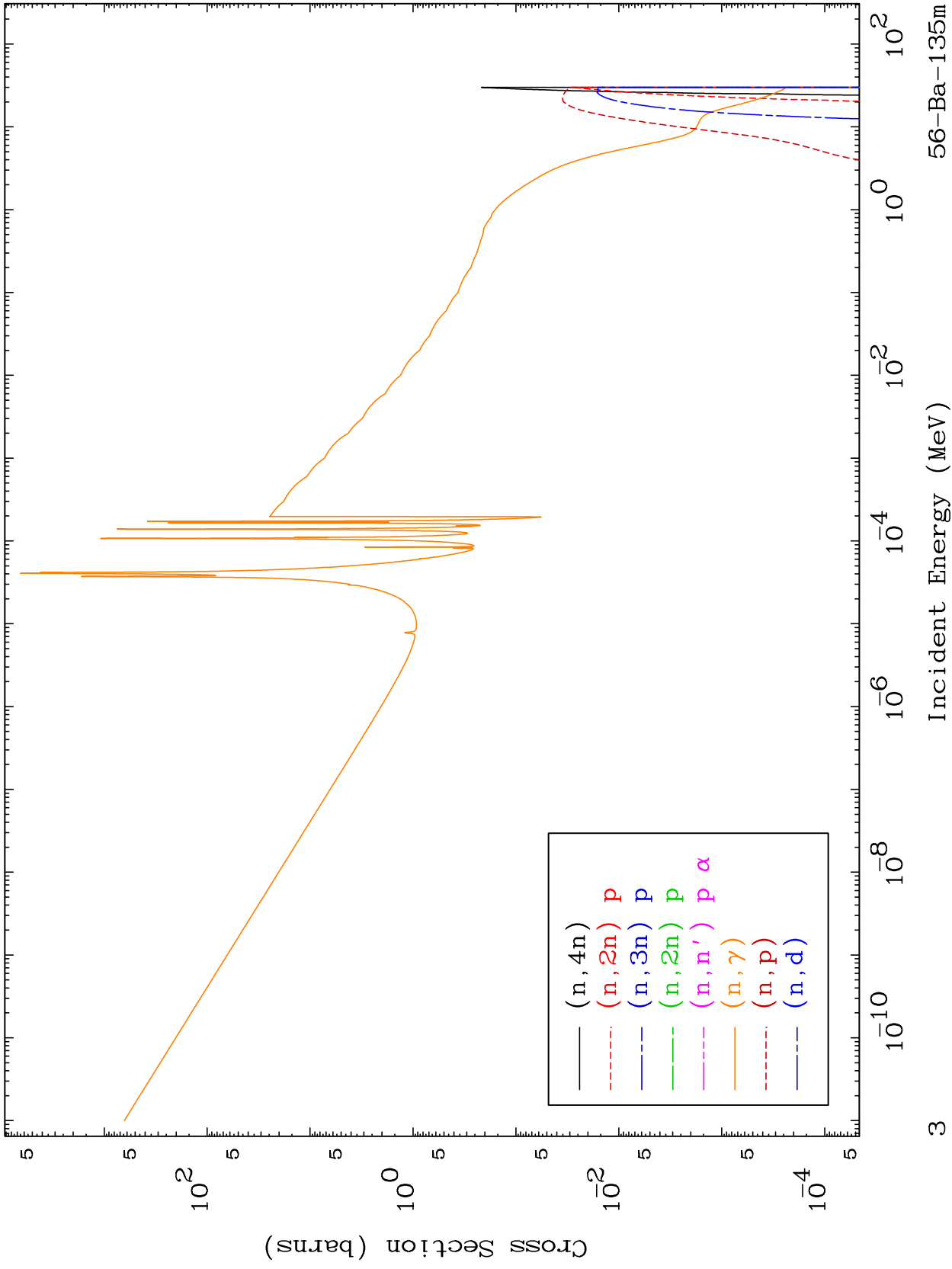
Incident Energy (MeV)

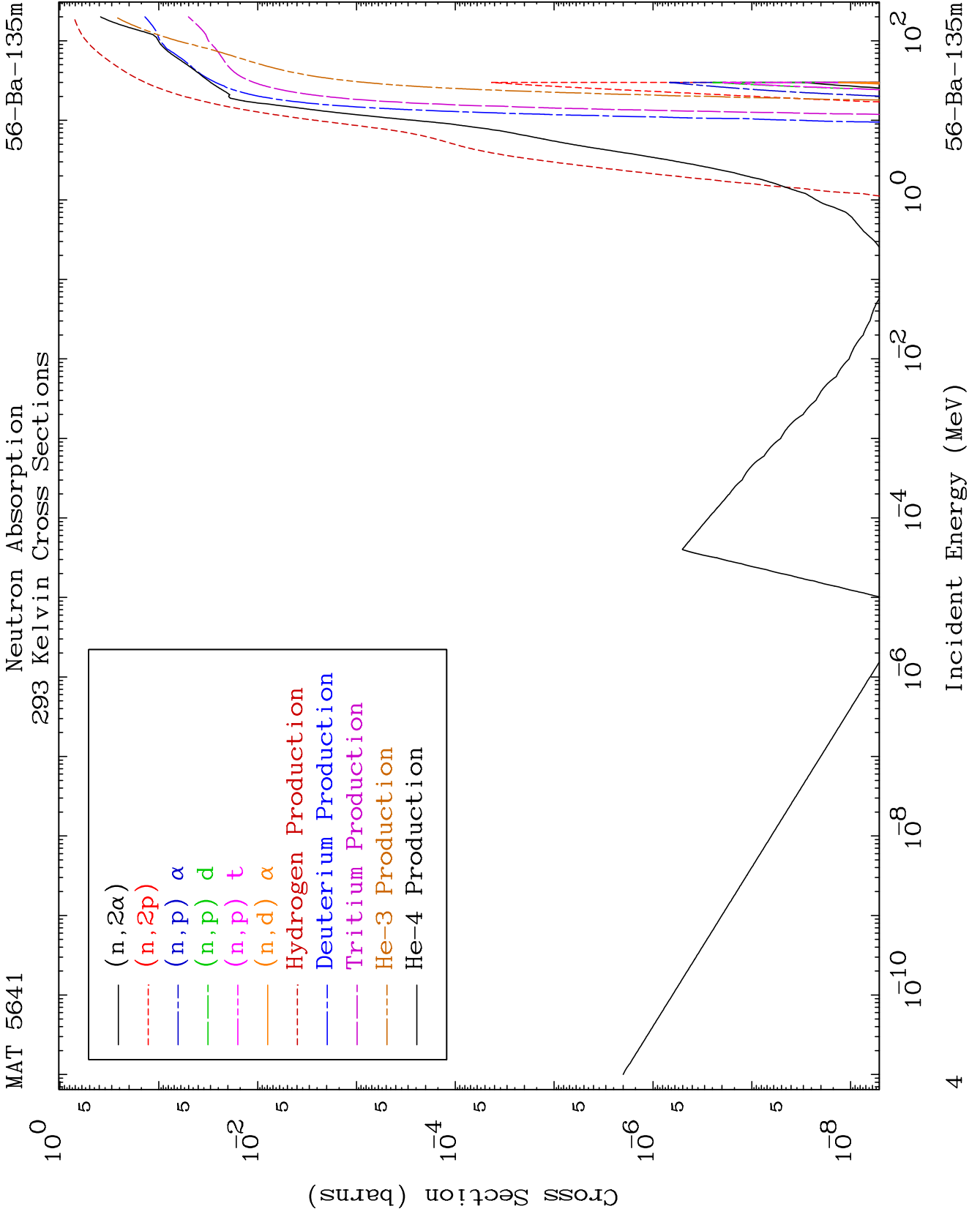
56-Ba-135m

MAT 5641

Neutron Absorption
293 Kelvin Cross Sections

56-Ba-135m

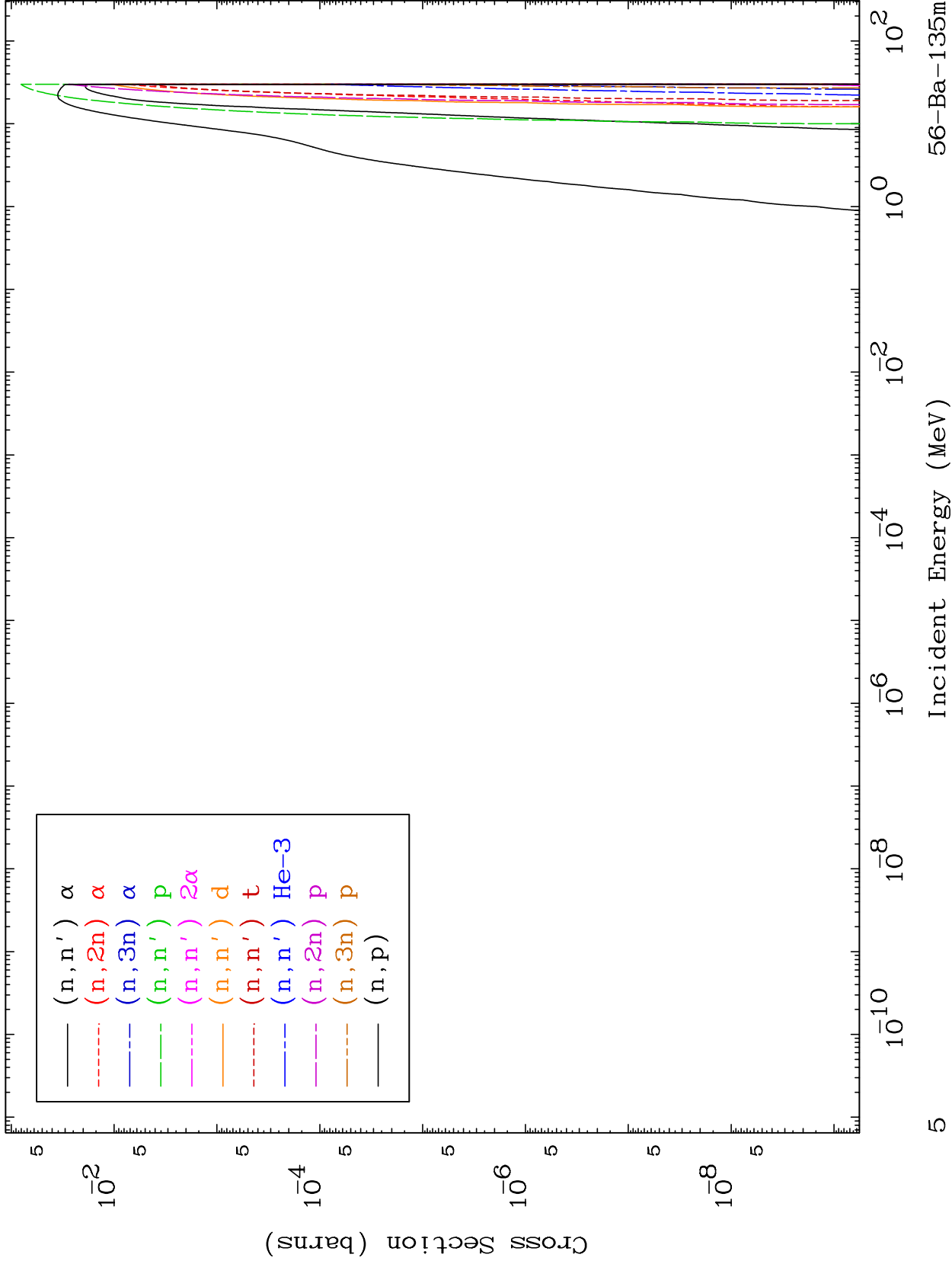




MAT 5641

Charged Particle
293 Kelvin Cross Sections

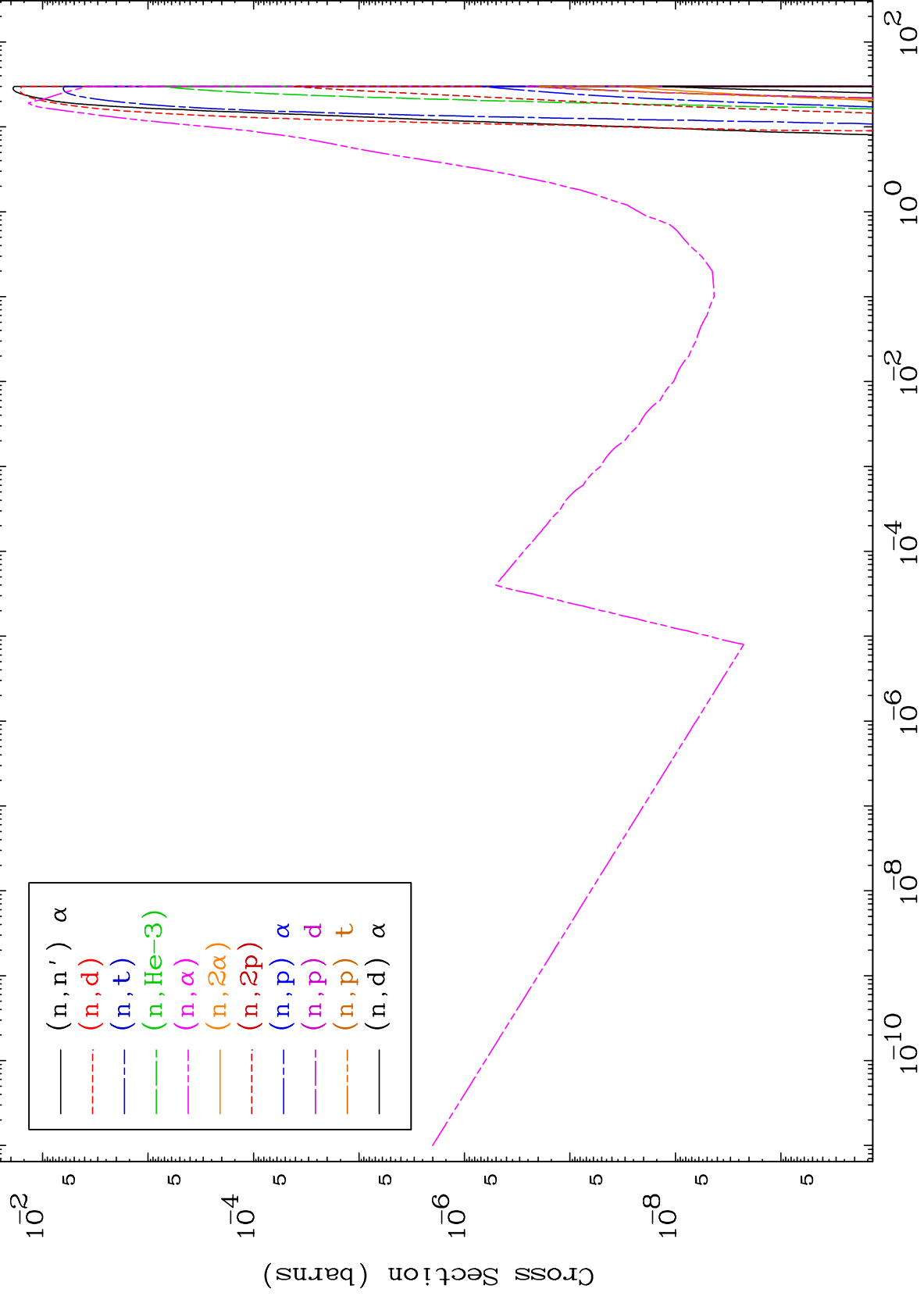
56-Ba-135m

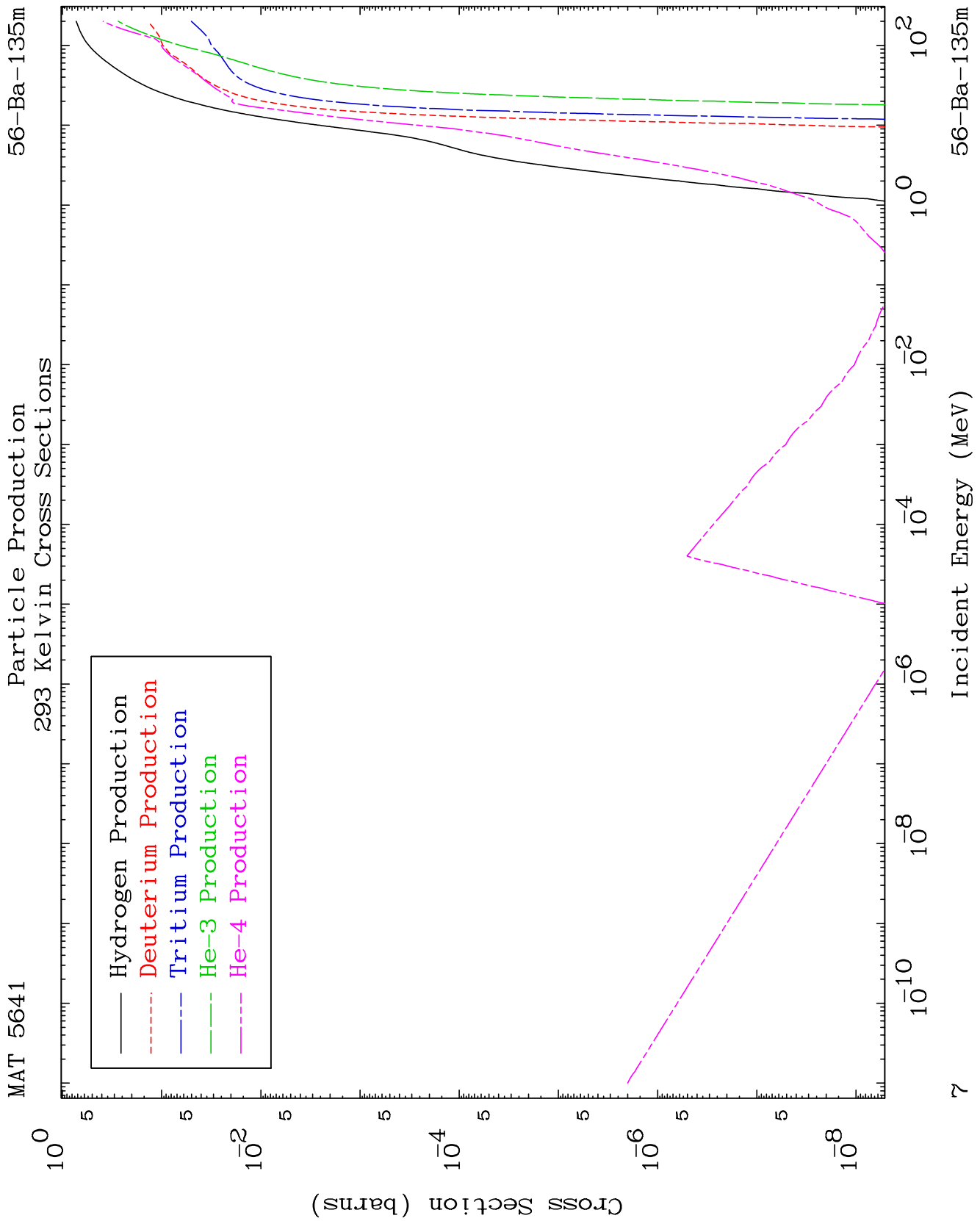


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Charged Particle
293 Kelvin Cross Sections

56-Ba-135m

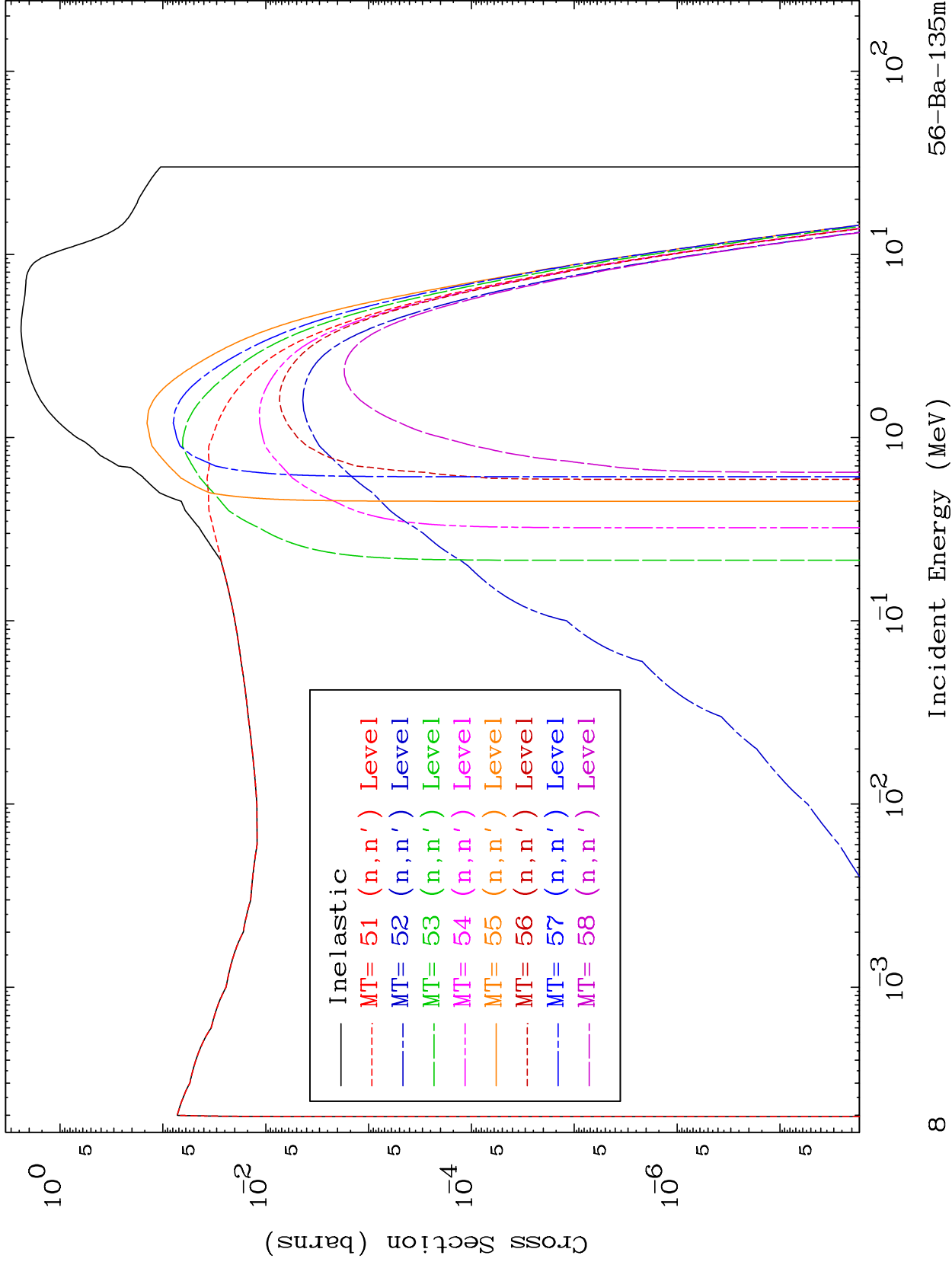




MAT 5641

(n,n') Levels
293 Kelvin Cross Sections

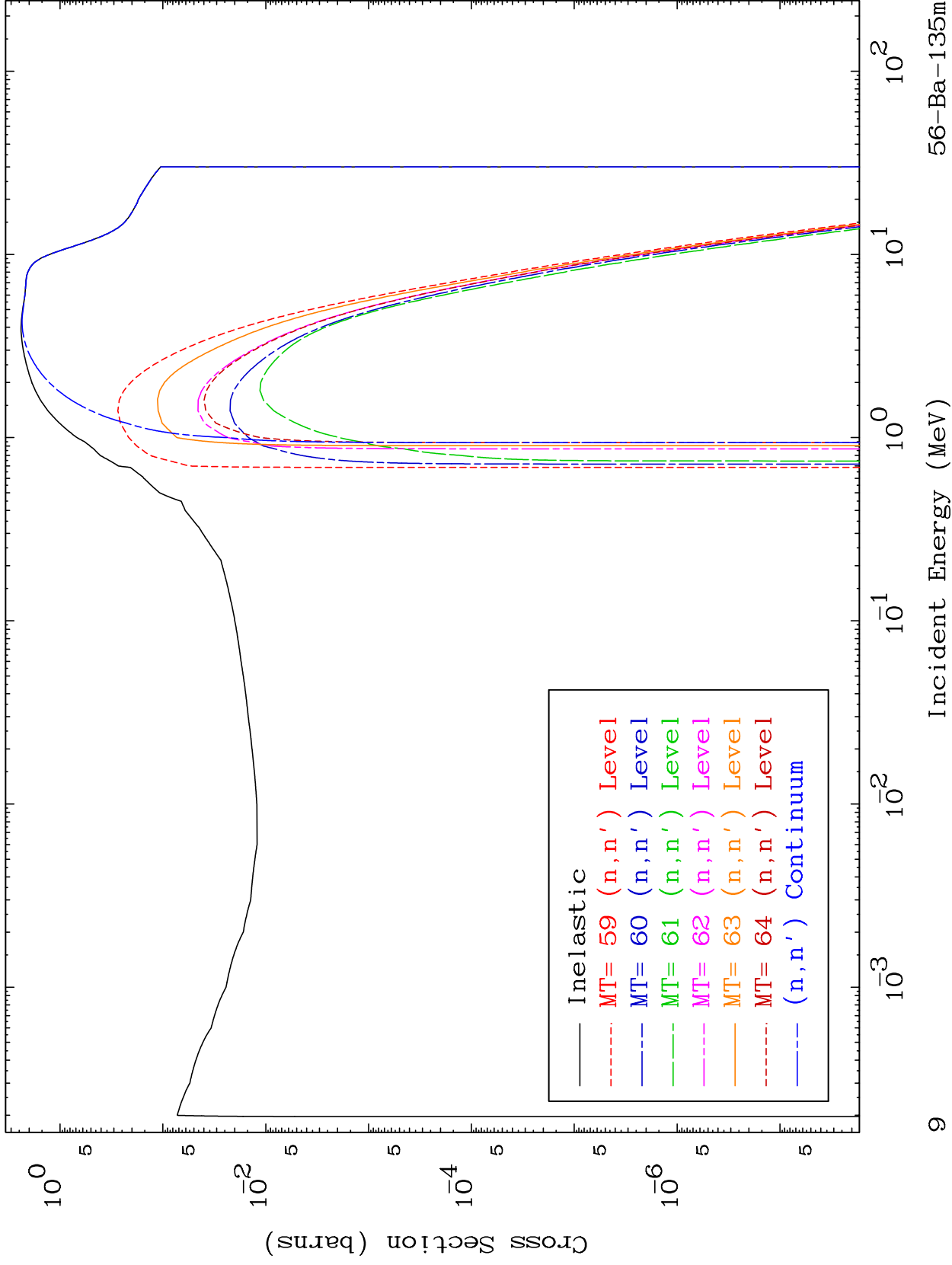
56-Ba-135m



MAT 5641

(n,n') Levels
293 Kelvin Cross Sections

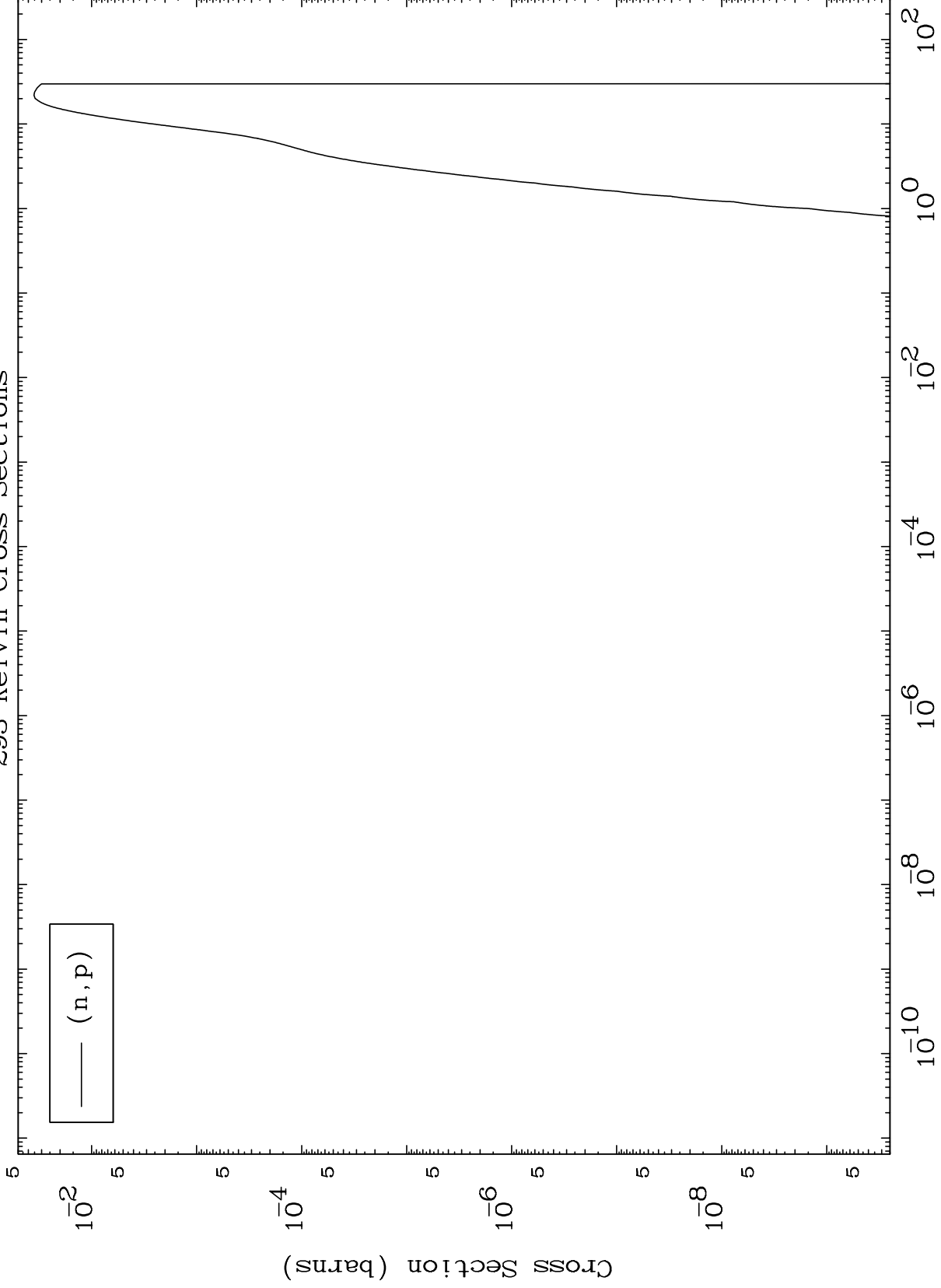
56-Ba-135m



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(n,p) Levels
293 Kelvin Cross Sections

56-Ba-135m



10

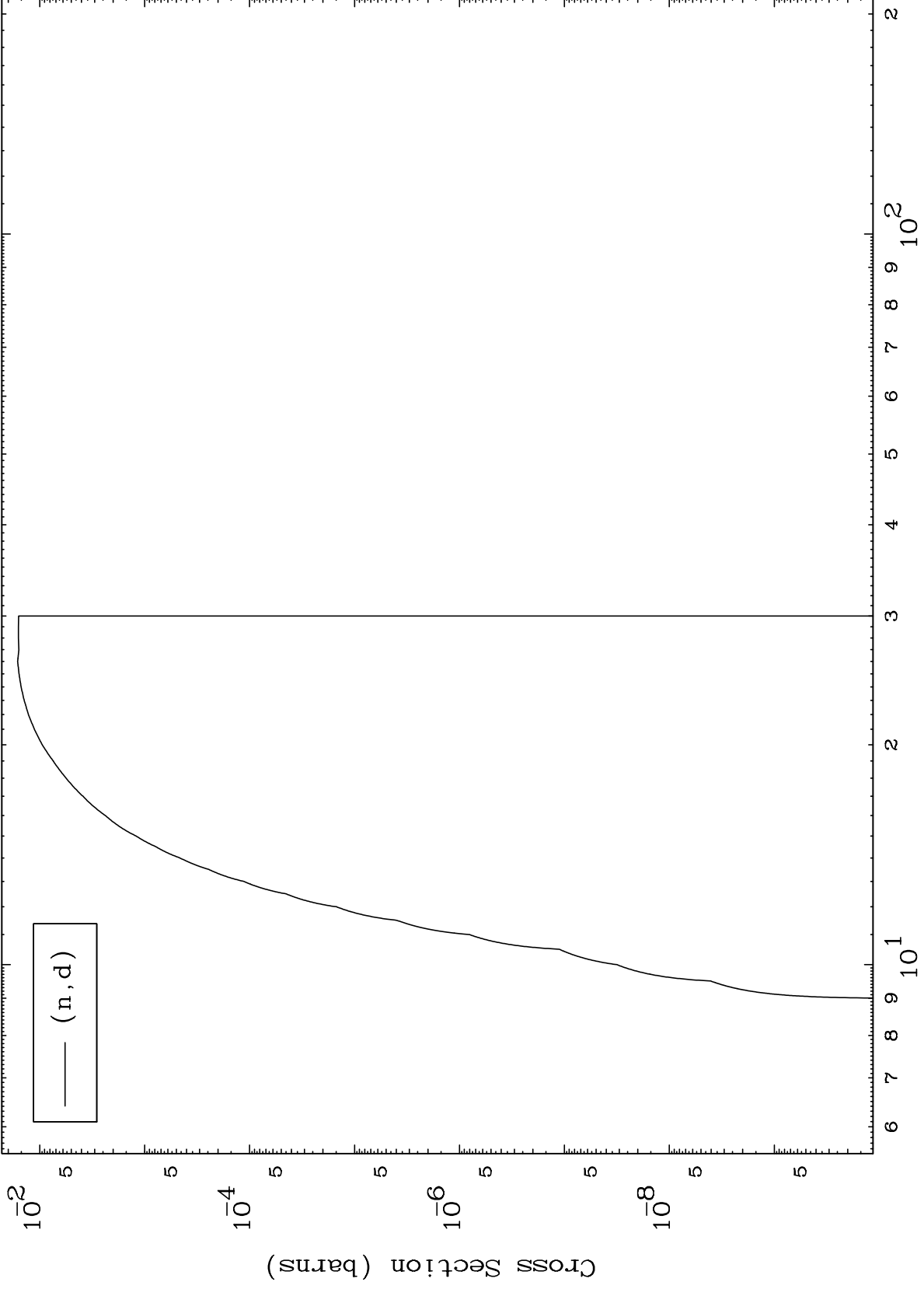
Incident Energy (MeV)

56-Ba-135m

MAT 5641

(n,d) Levels
293 Kelvin Cross Sections

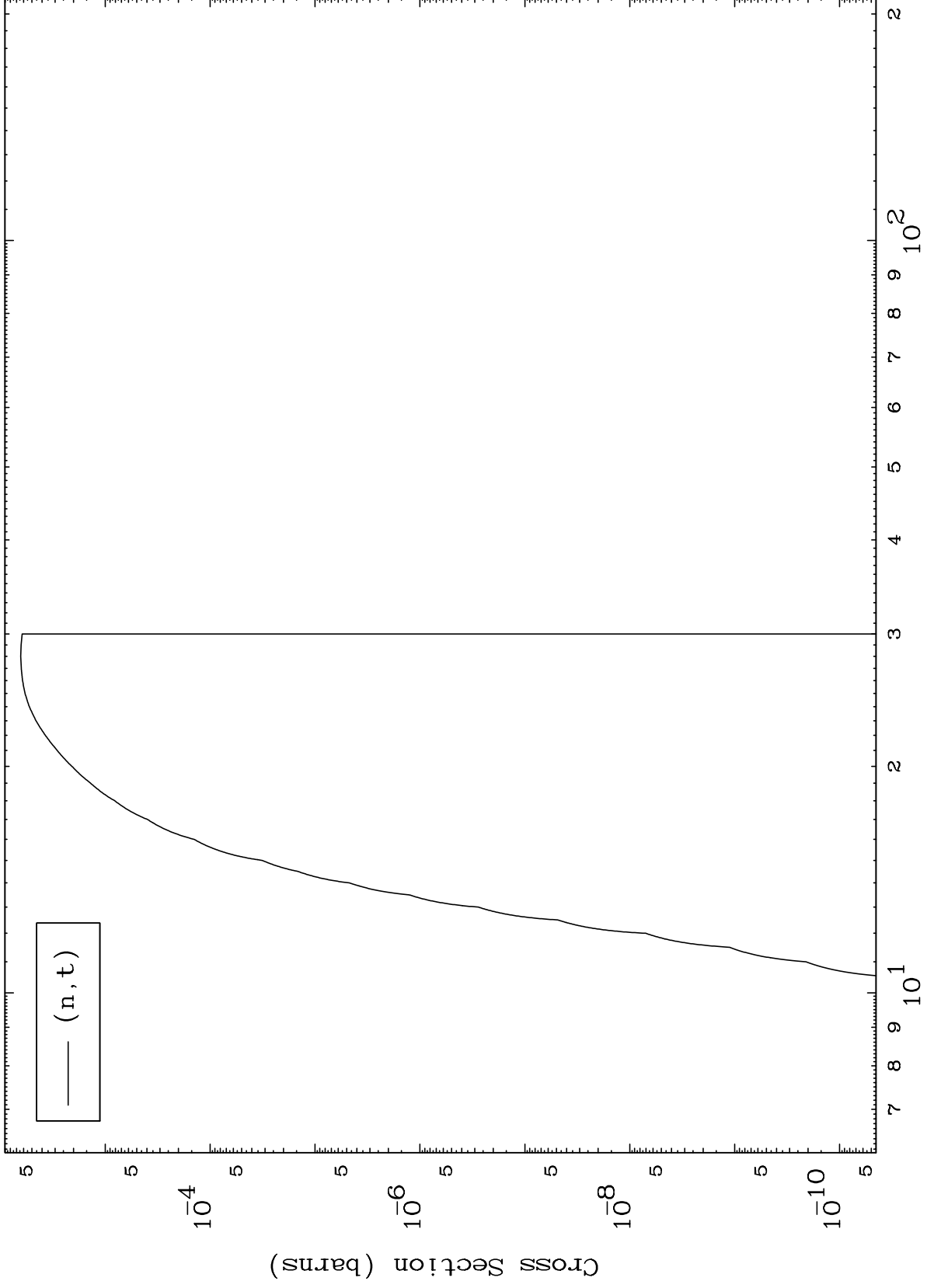
56-Ba-135m



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(n,t) Levels
293 Kelvin Cross Sections

56-Ba-135m



12

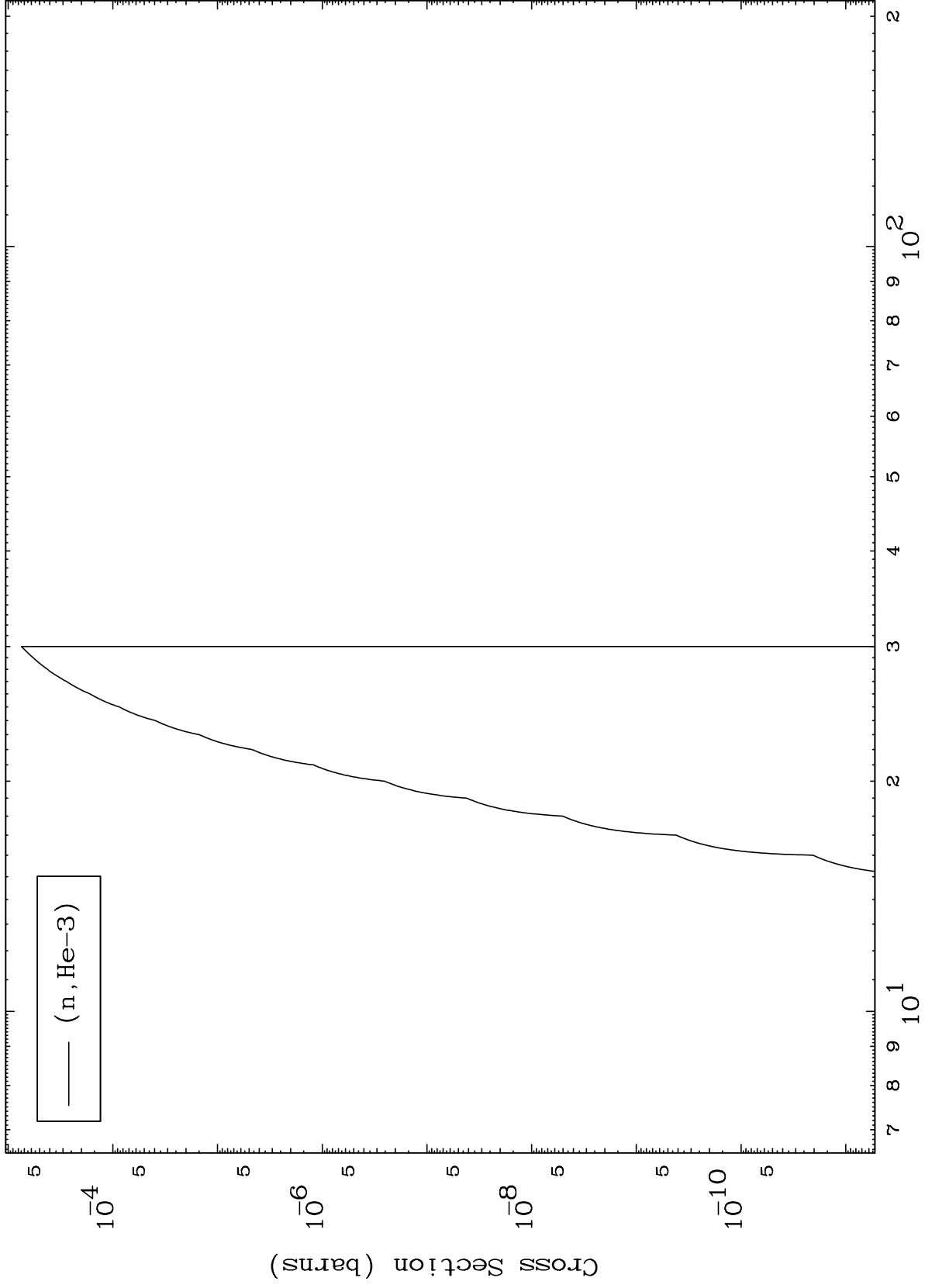
Incident Energy (MeV)

56-Ba-135m

MAT 5641

(n,He3) Levels
293 Kelvin Cross Sections

56-Ba-135m



13

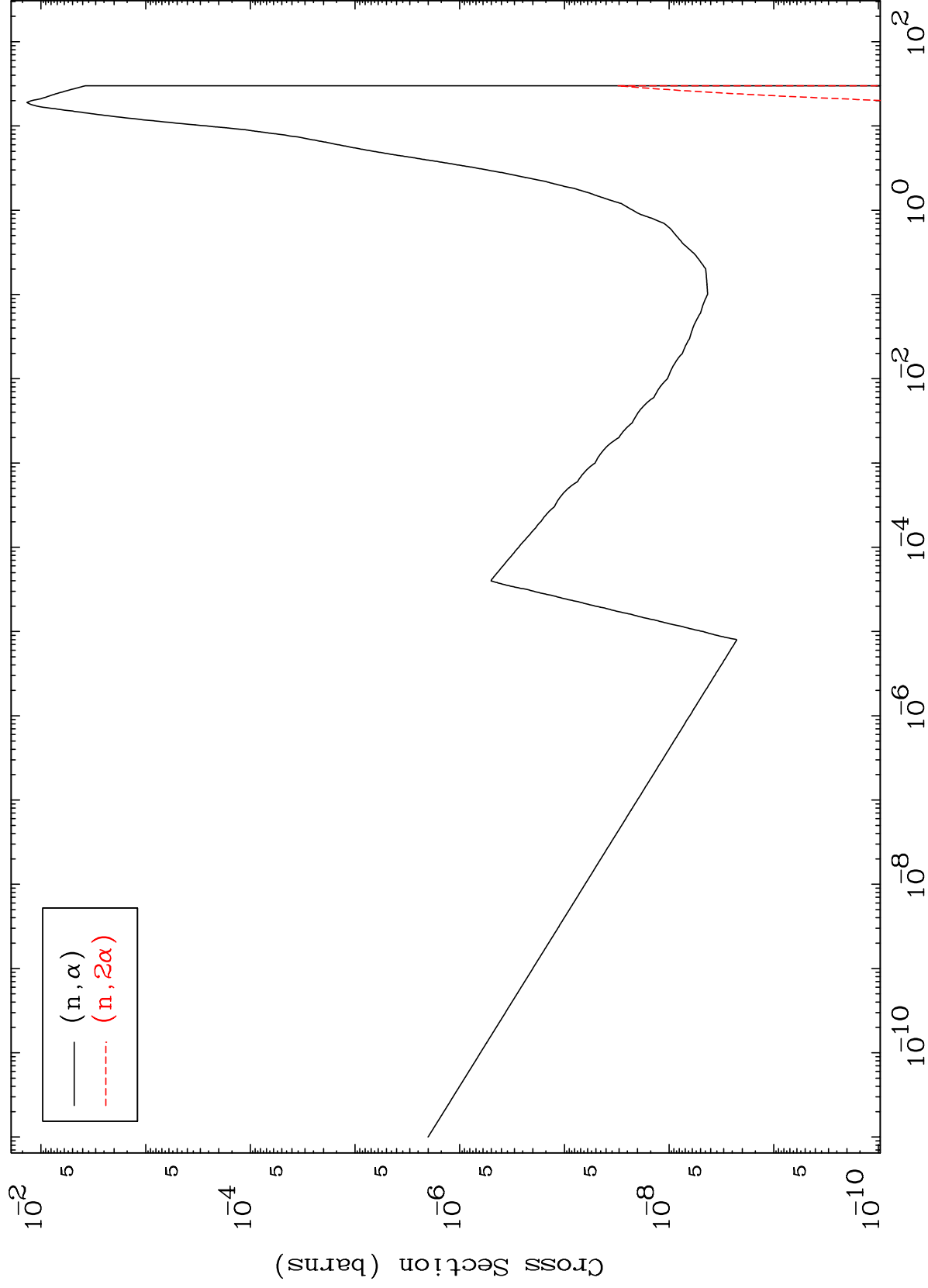
Incident Energy (MeV)

56-Ba-135m

MAT 5641

(n, α) Levels
293 Kelvin Cross Sections

56-Ba-135m



14

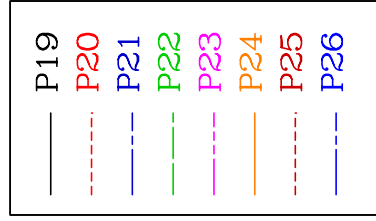
Incident Energy (MeV)

56-Ba-135m

MAT 5641

Elastic Legendre Coefficients

56-Ba-135m



$\times 10^{-6}$
1.5

Legendre (CM)

1.0

0.5

0.0

15

20

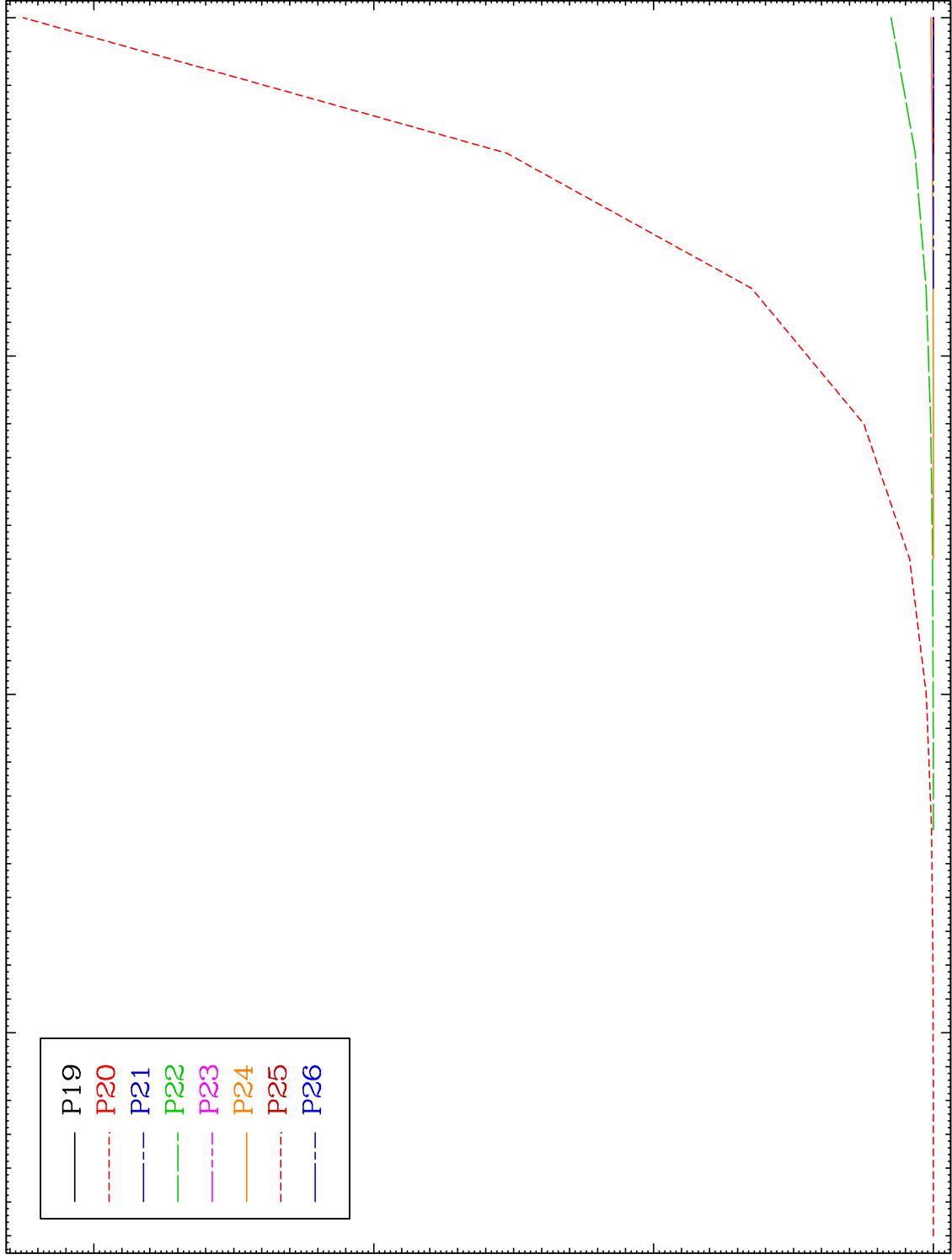
25

30

17

Incident Energy (MeV)

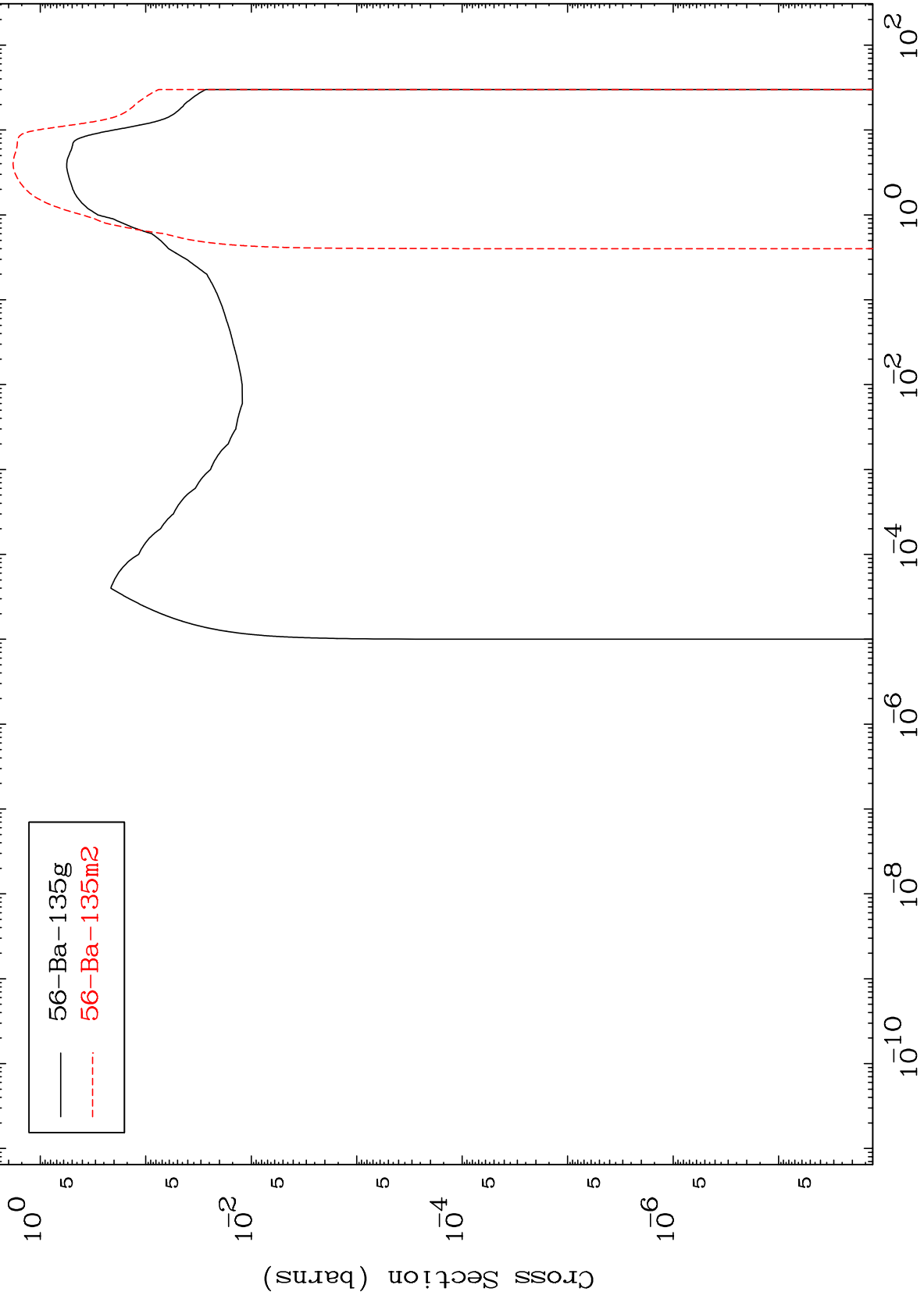
56-Ba-135m



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Inelastic
Radionuclide Production Cross Section

56-Ba-135m

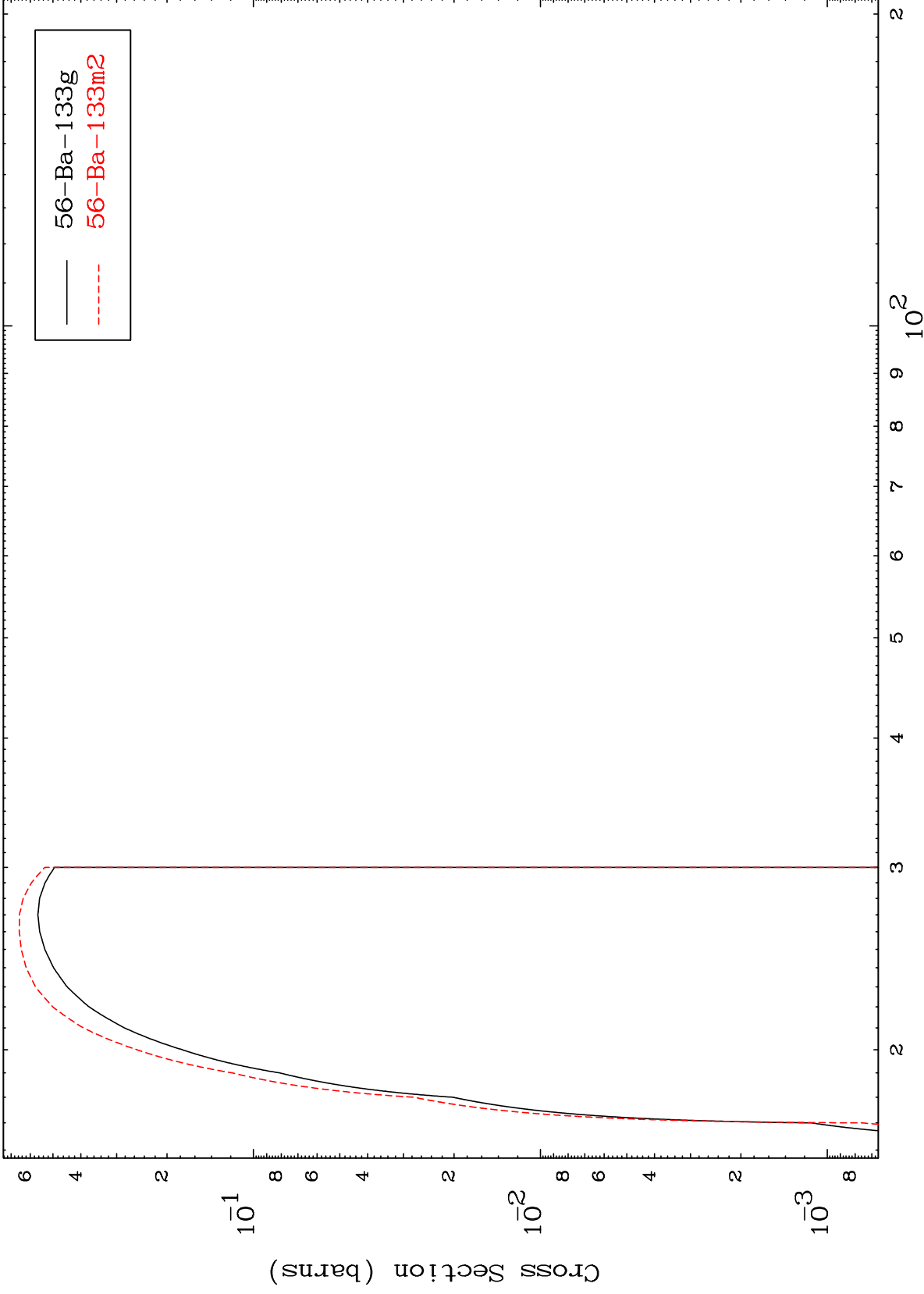


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(n,3n)

56-Ba-135m

Radionuclide Production Cross Section



56-Ba-133g
56-Ba-133m2

19

Incident Energy (MeV)

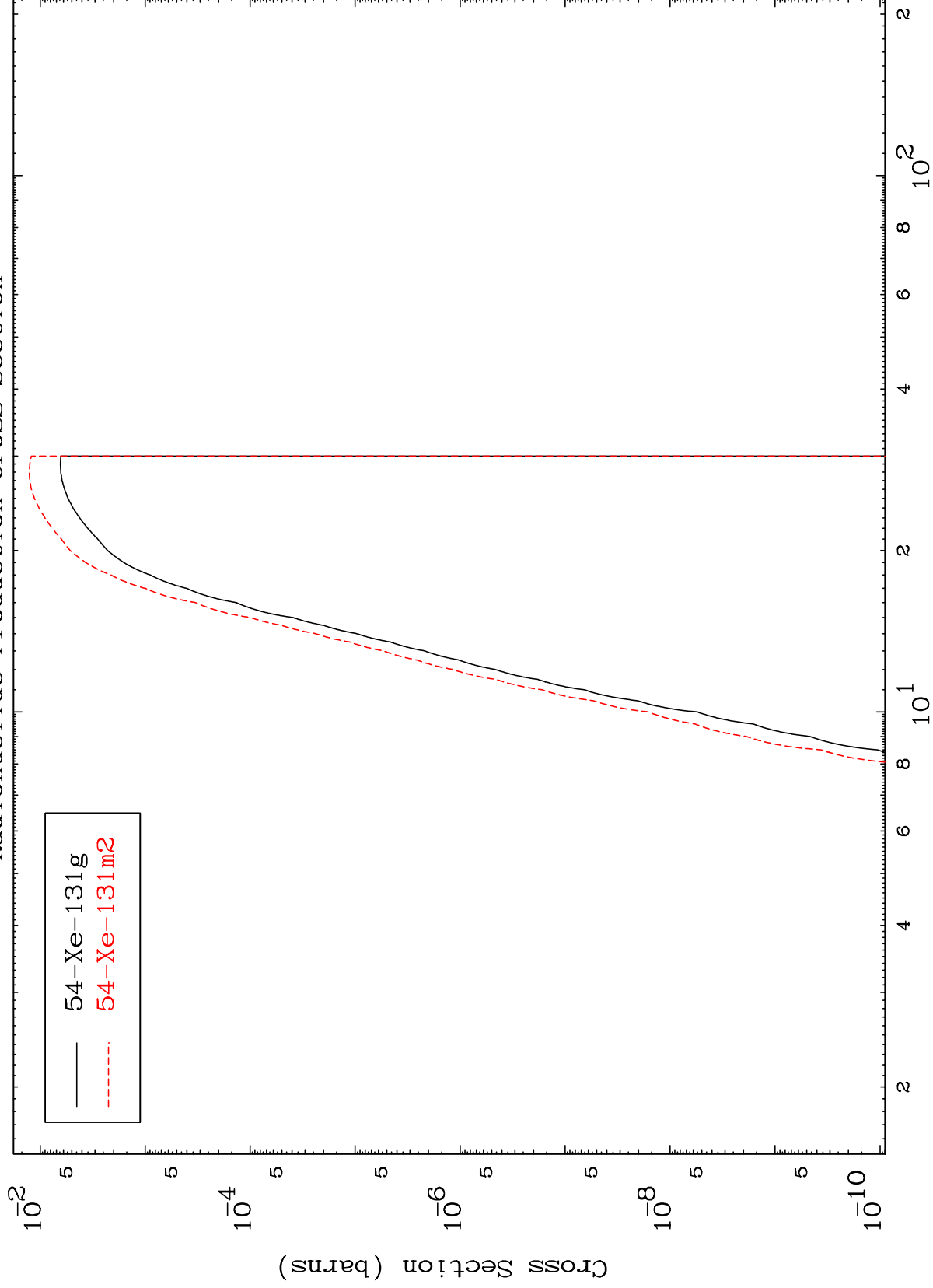
56-Ba-135m

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(n,n') α

56-Ba-135m

Radionuclide Production Cross Section



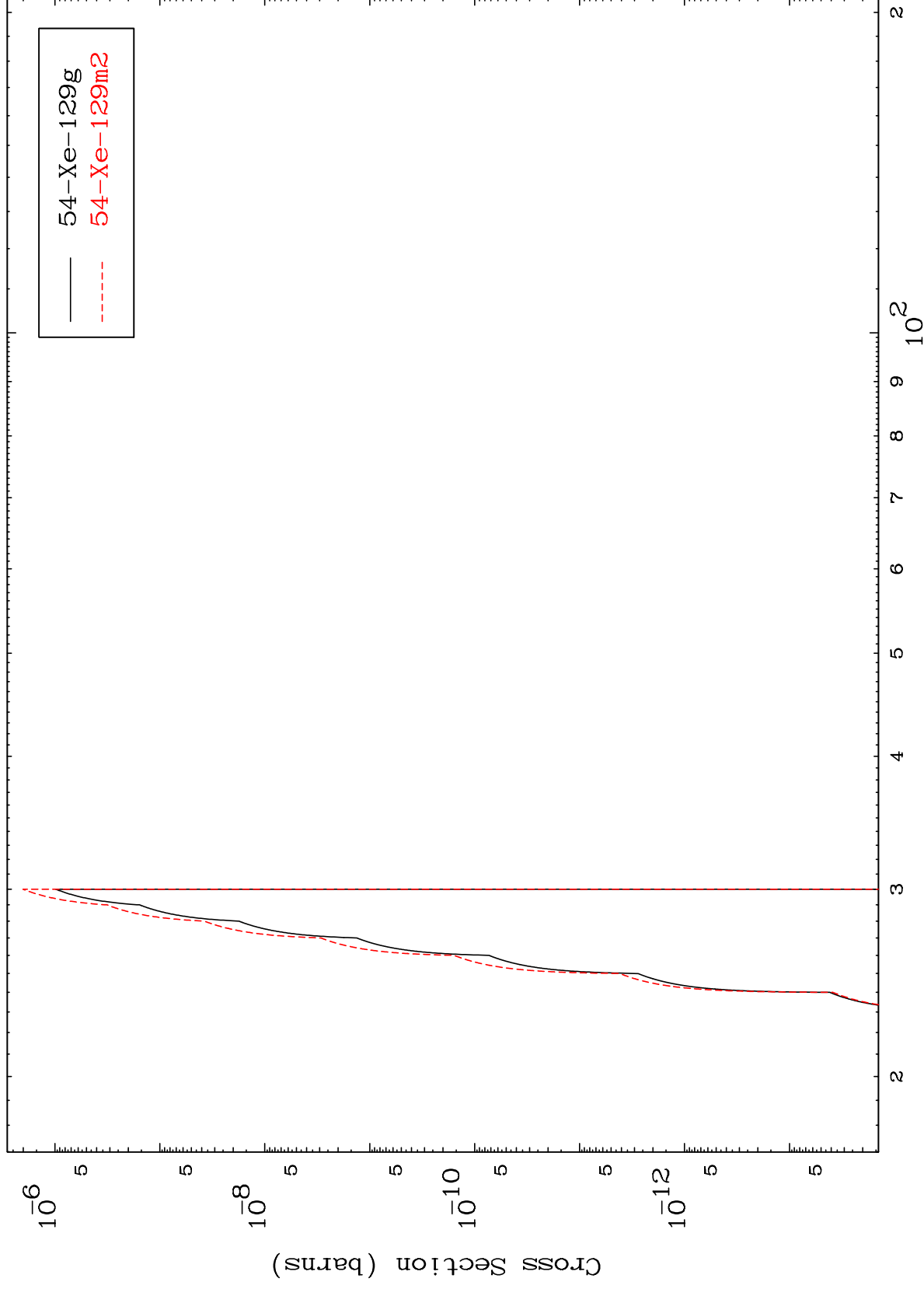
54-Xe-131g
54-Xe-131m2

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(n,3n) α

56-Ba-135m

Radionuclide Production Cross Section



21

Incident Energy (MeV)

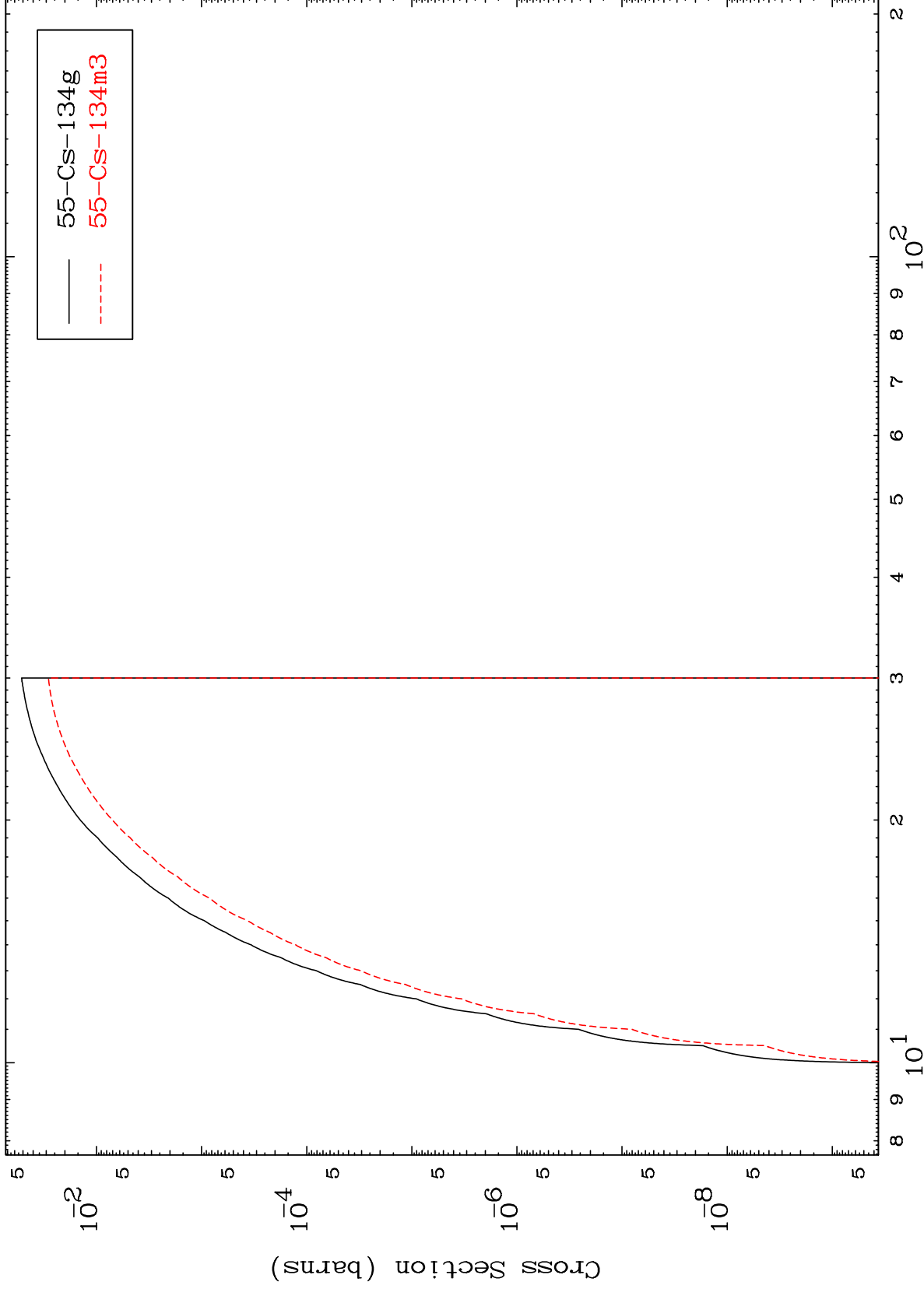
56-Ba-135m

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(n,n') p

56-Ba-135m

Radionuclide Production Cross Section



22

Incident Energy (MeV)

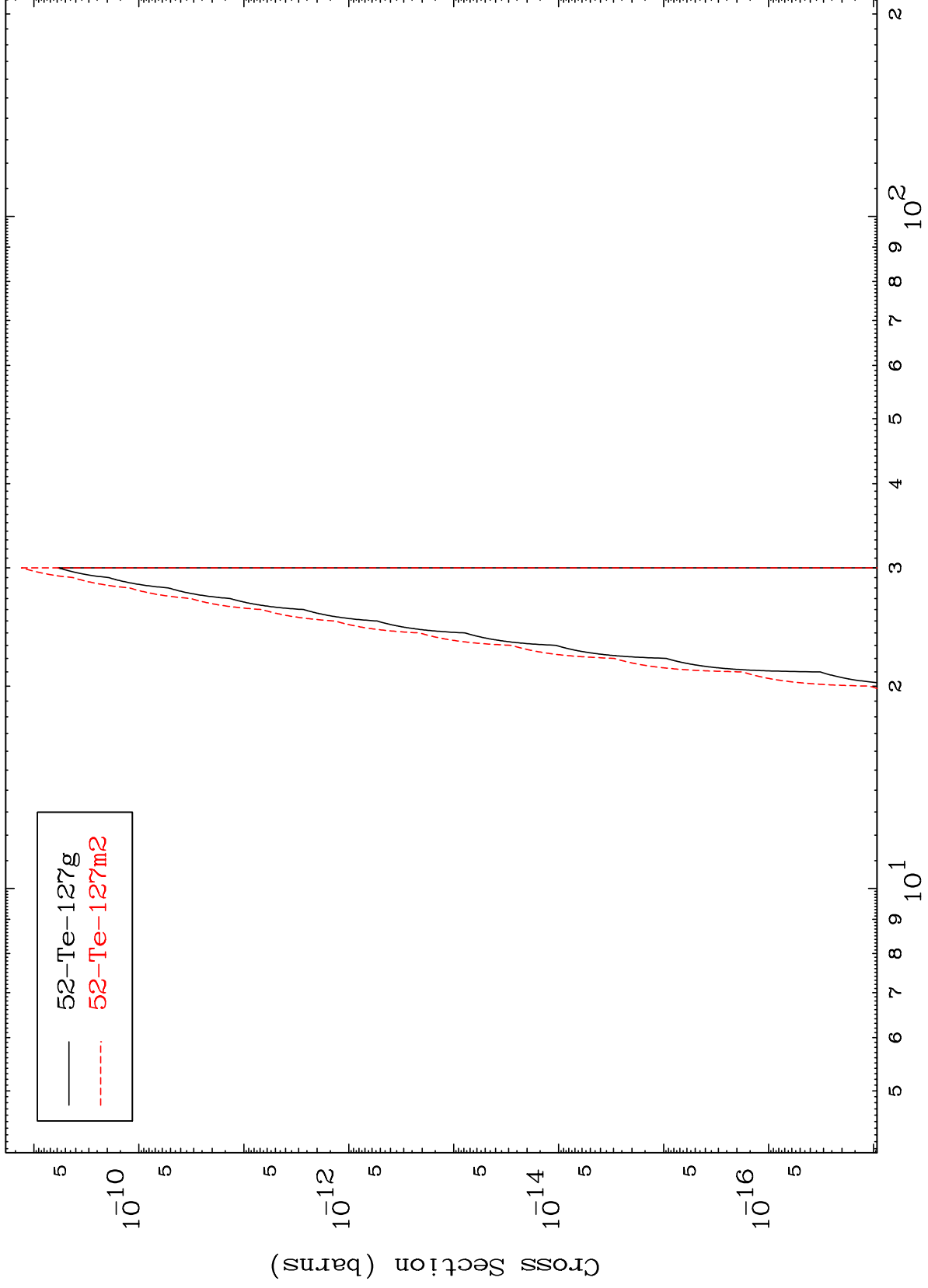
56-Ba-135m

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(n,n') 2α

56-Ba-135m

Radionuclide Production Cross Section



23

Incident Energy (MeV)

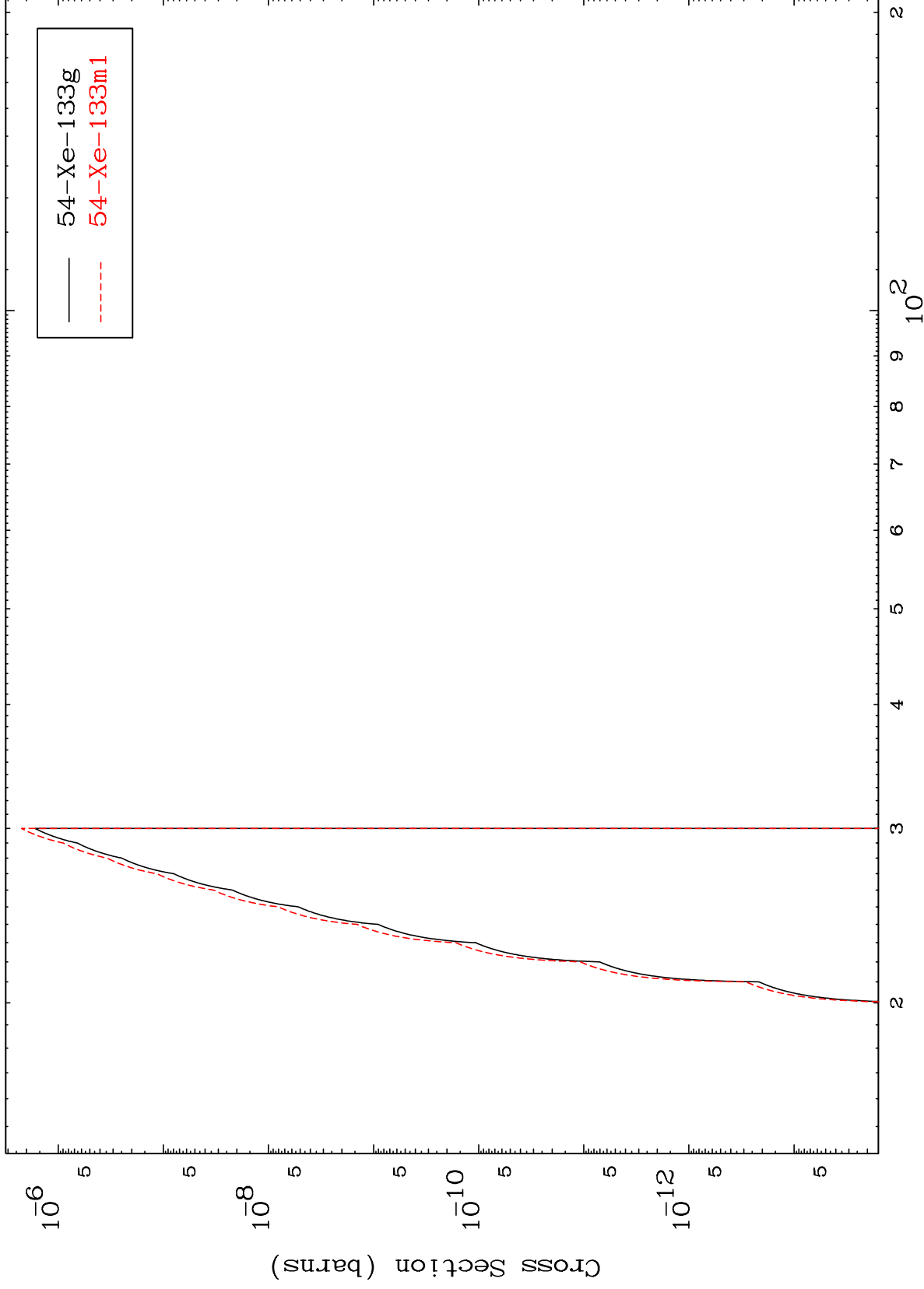
56-Ba-135m

MAT 5641

(n,2n) p

56-Ba-135m

Radionuclide Production Cross Section



24

Incident Energy (MeV)

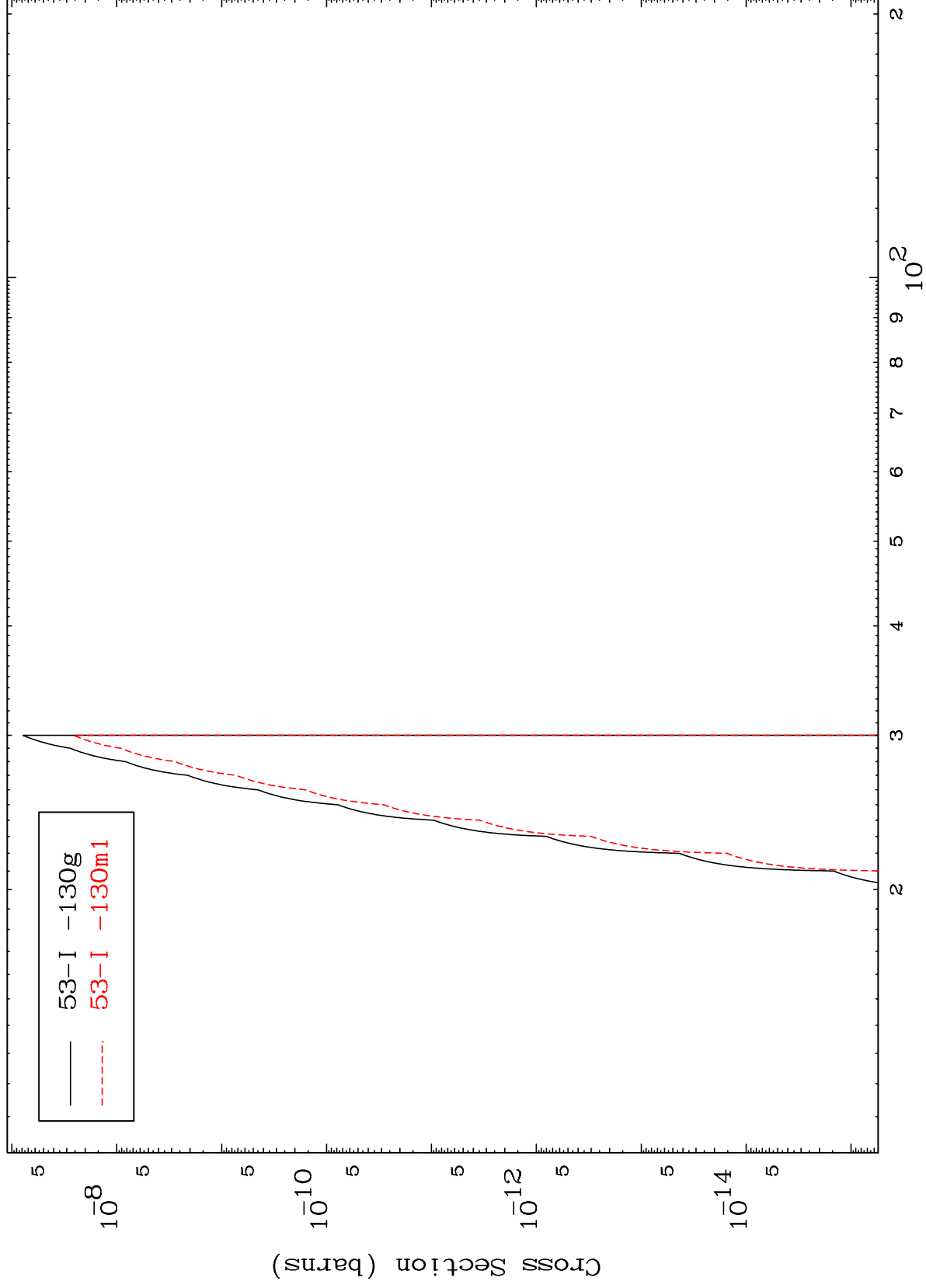
56-Ba-135m

MAT 5641

(n,n') p α

56-Ba-135m

Radionuclide Production Cross Section



25

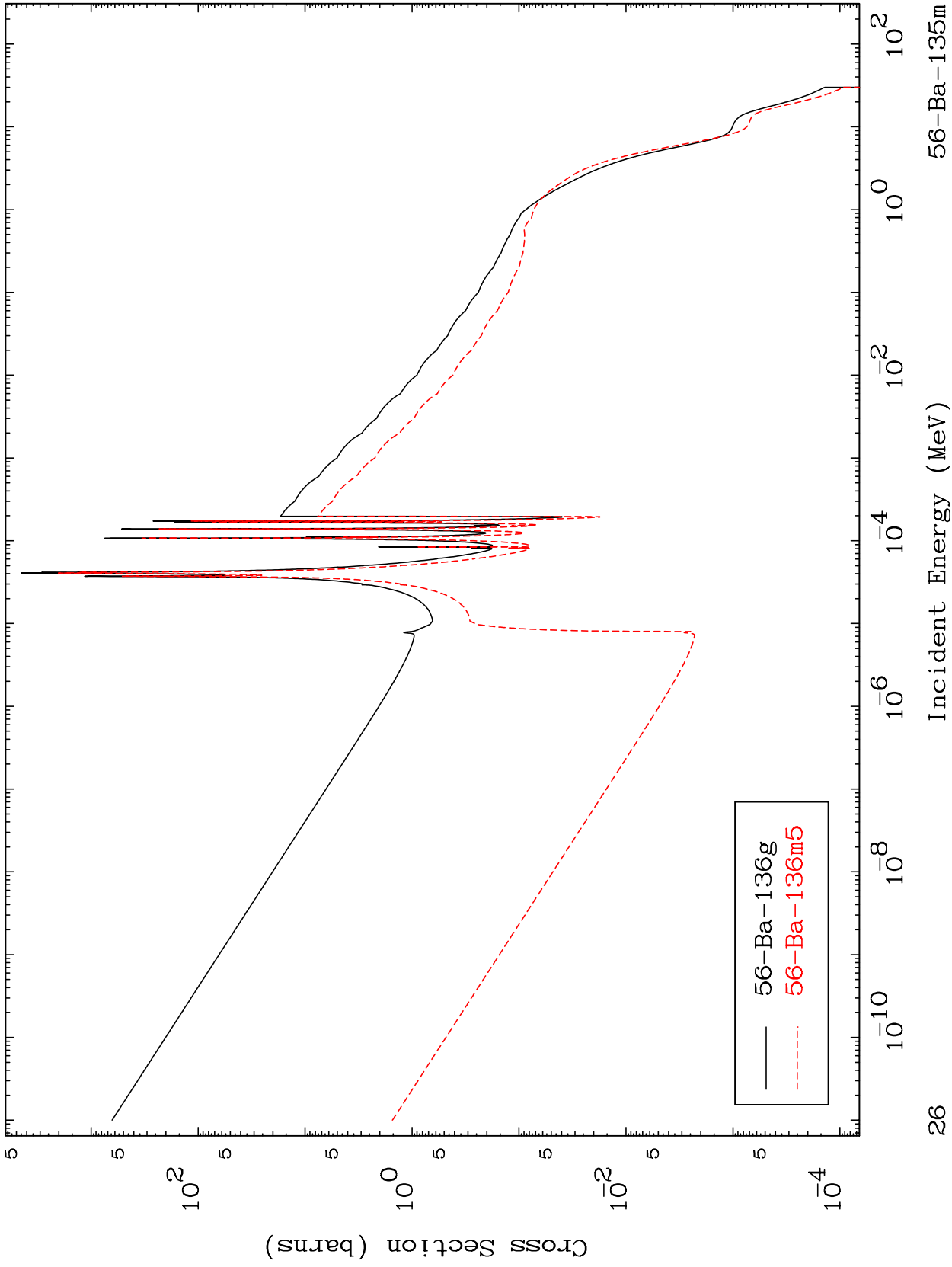
Incident Energy (MeV)

56-Ba-135m

MAT 5641

56-Ba-135m

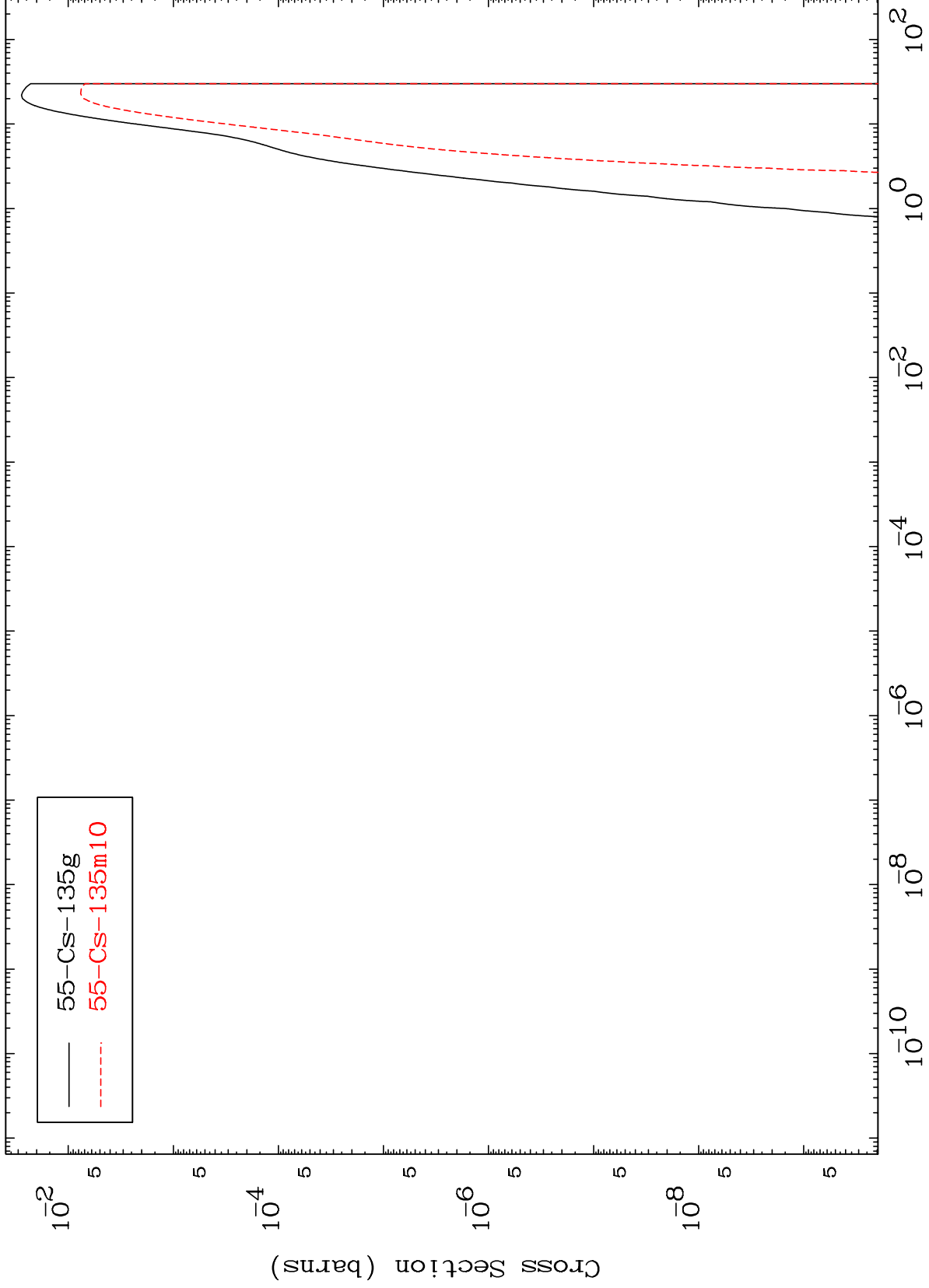
Radionuclide Production Cross Section
(n, γ)



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(n,p)
Radionuclide Production Cross Section

56-Ba-135m

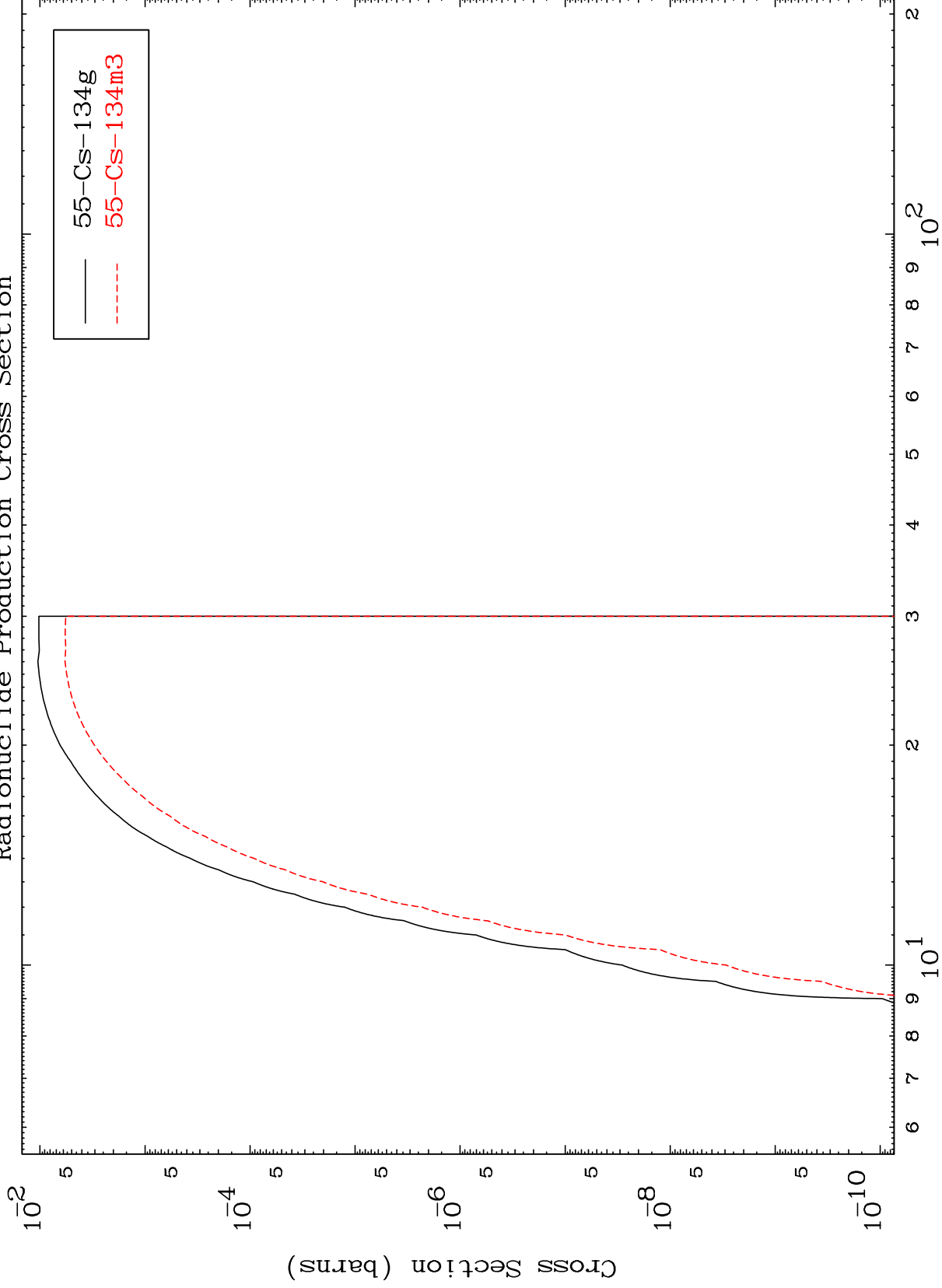


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(n,d)

56-Ba-135m

Radionuclide Production Cross Section



28

Incident Energy (MeV)

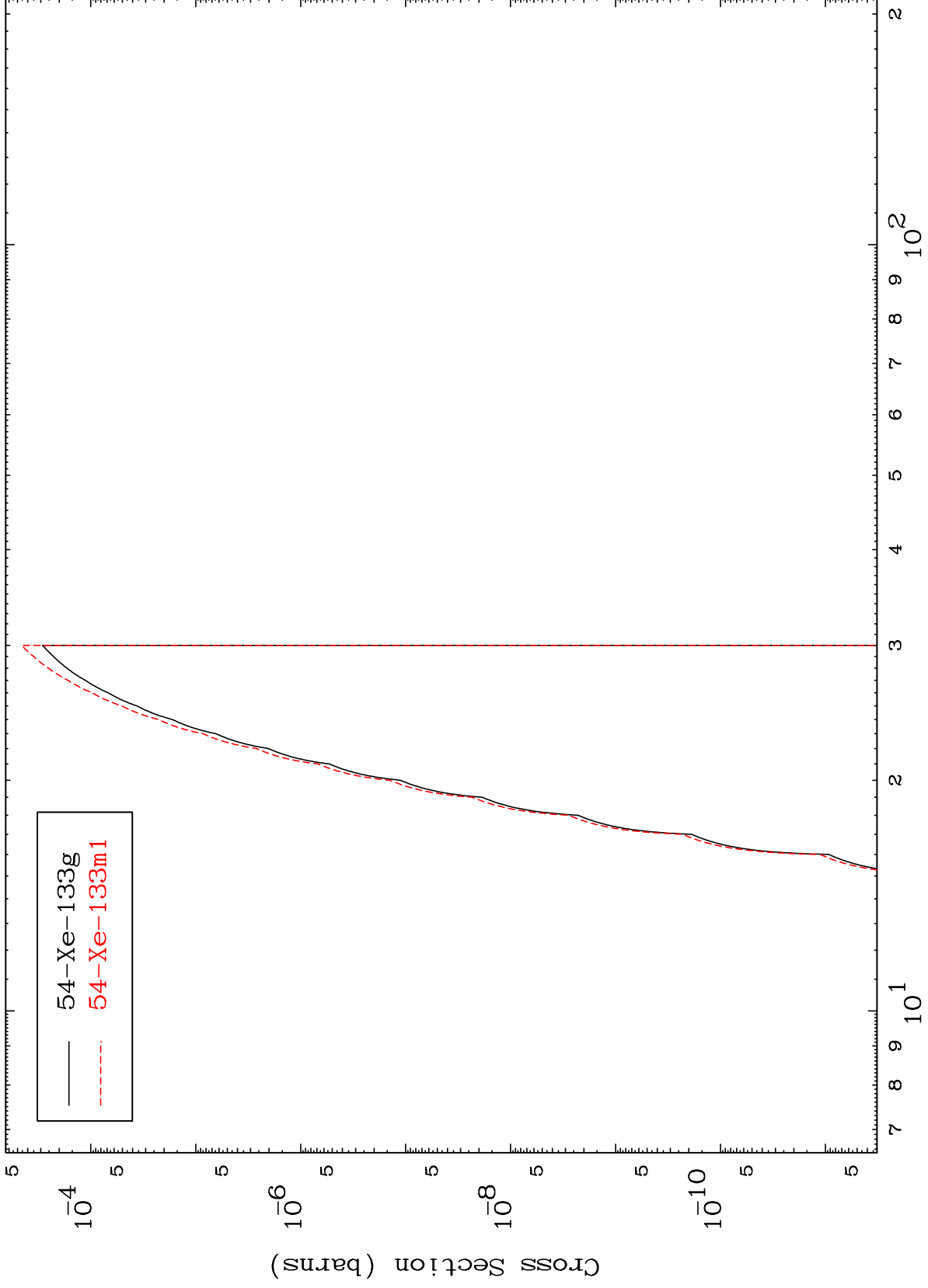
56-Ba-135m

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(n,He-3)

56-Ba-135m

Radionuclide Production Cross Section



29

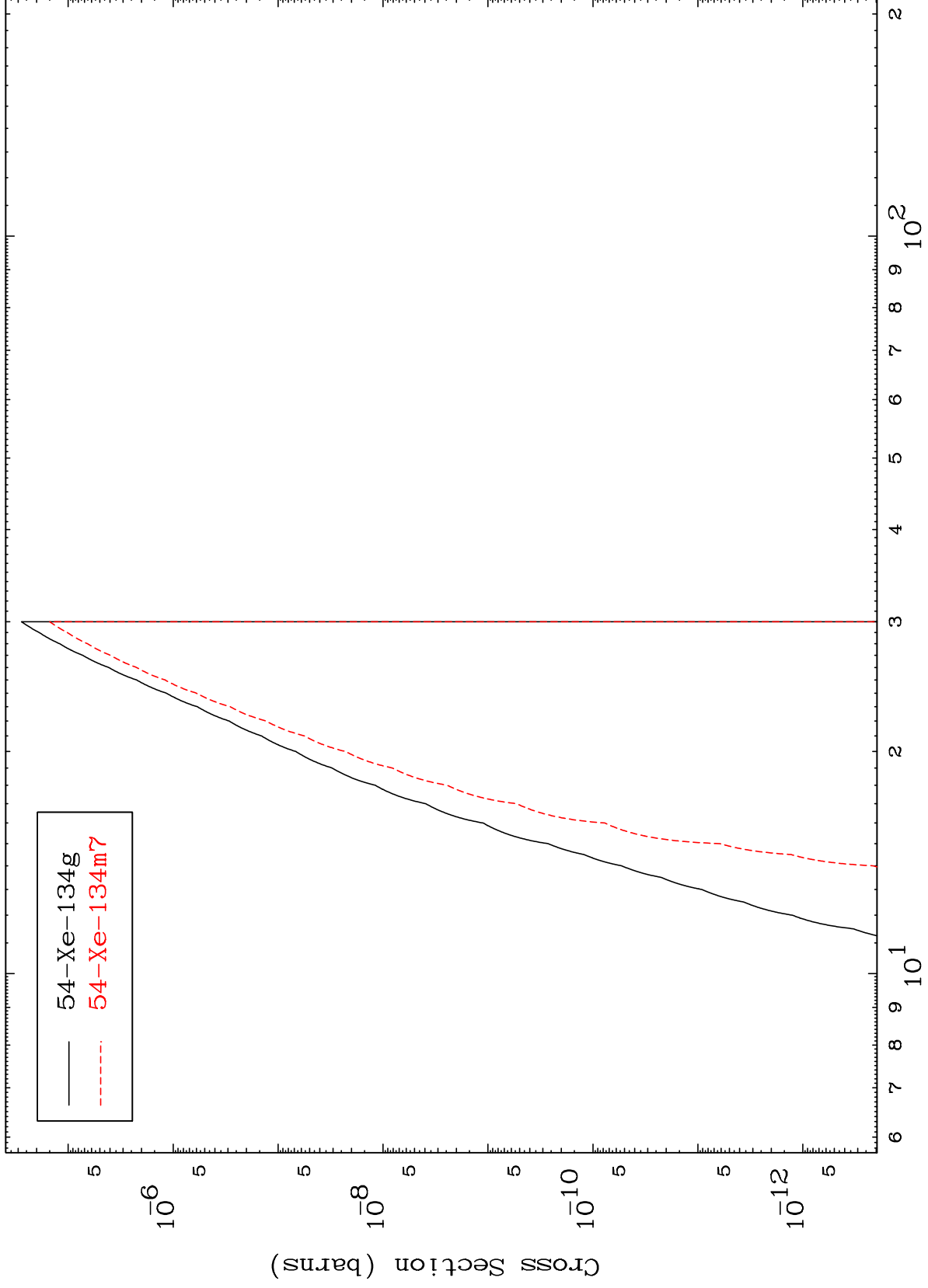
Incident Energy (MeV)

56-Ba-135m

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56-Ba-135m

(n,2p)
Radionuclide Production Cross Section



54-Xe-134g
54-Xe-134m7

30

Incident Energy (MeV)

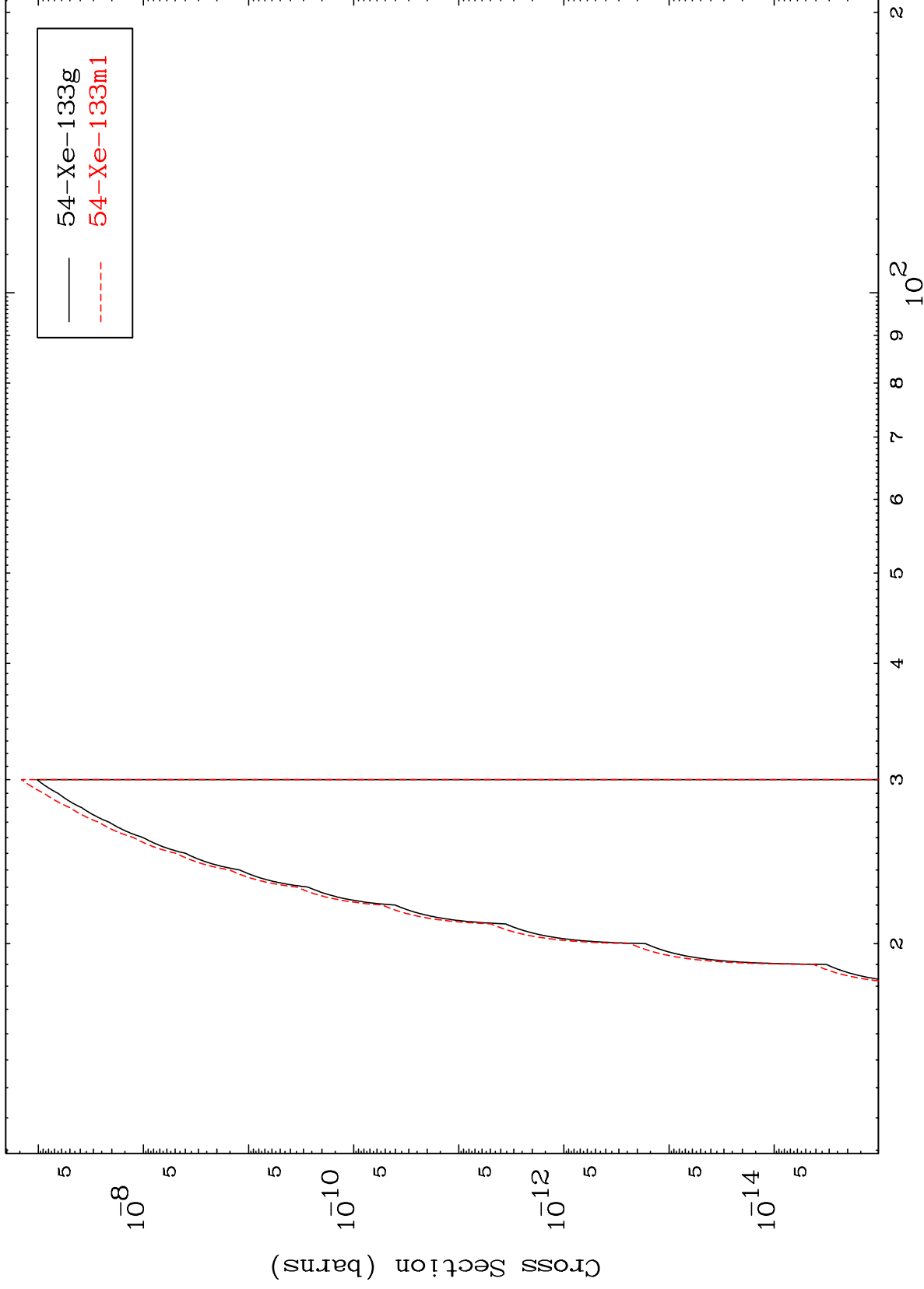
56-Ba-135m

MAT 5641

(n,p) d

56-Ba-135m

Radionuclide Production Cross Section



31

Incident Energy (MeV)

56-Ba-135m

MAT 5641

(n,d) α

56-Ba-135m

