

Program EVALPLOT
(Version 2021-1)

by

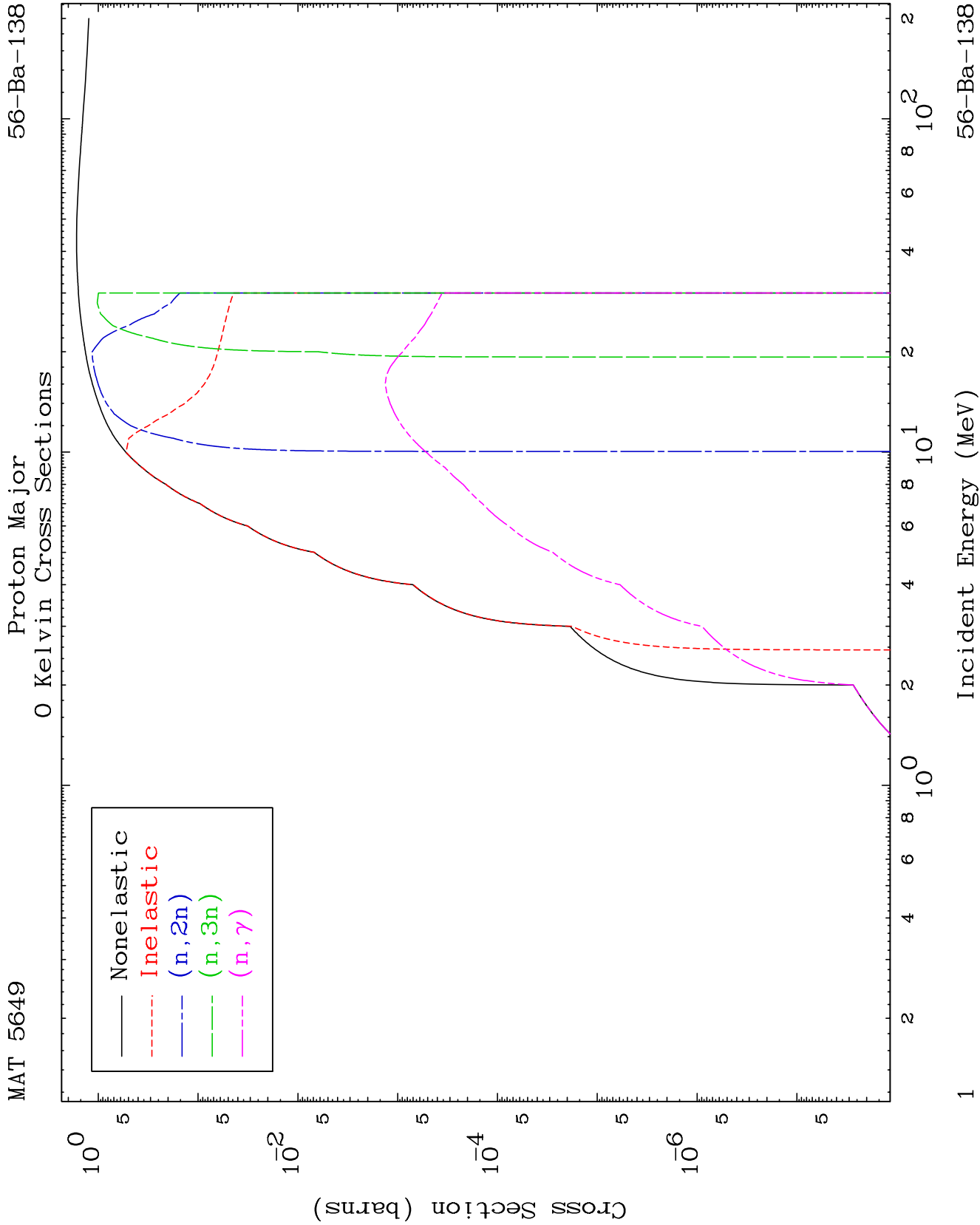
Dermott E. Cullen
(Present Contact Information)

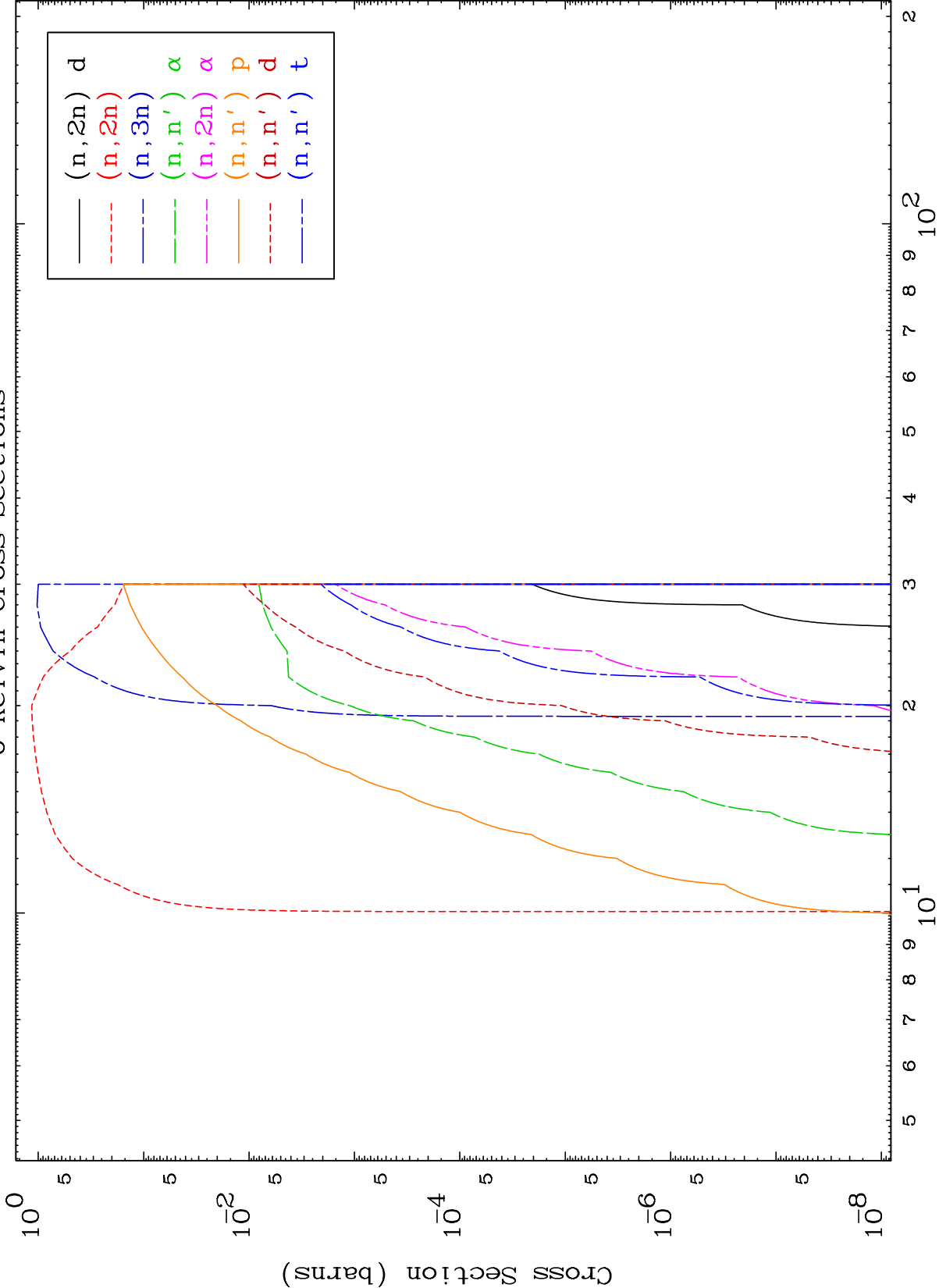
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

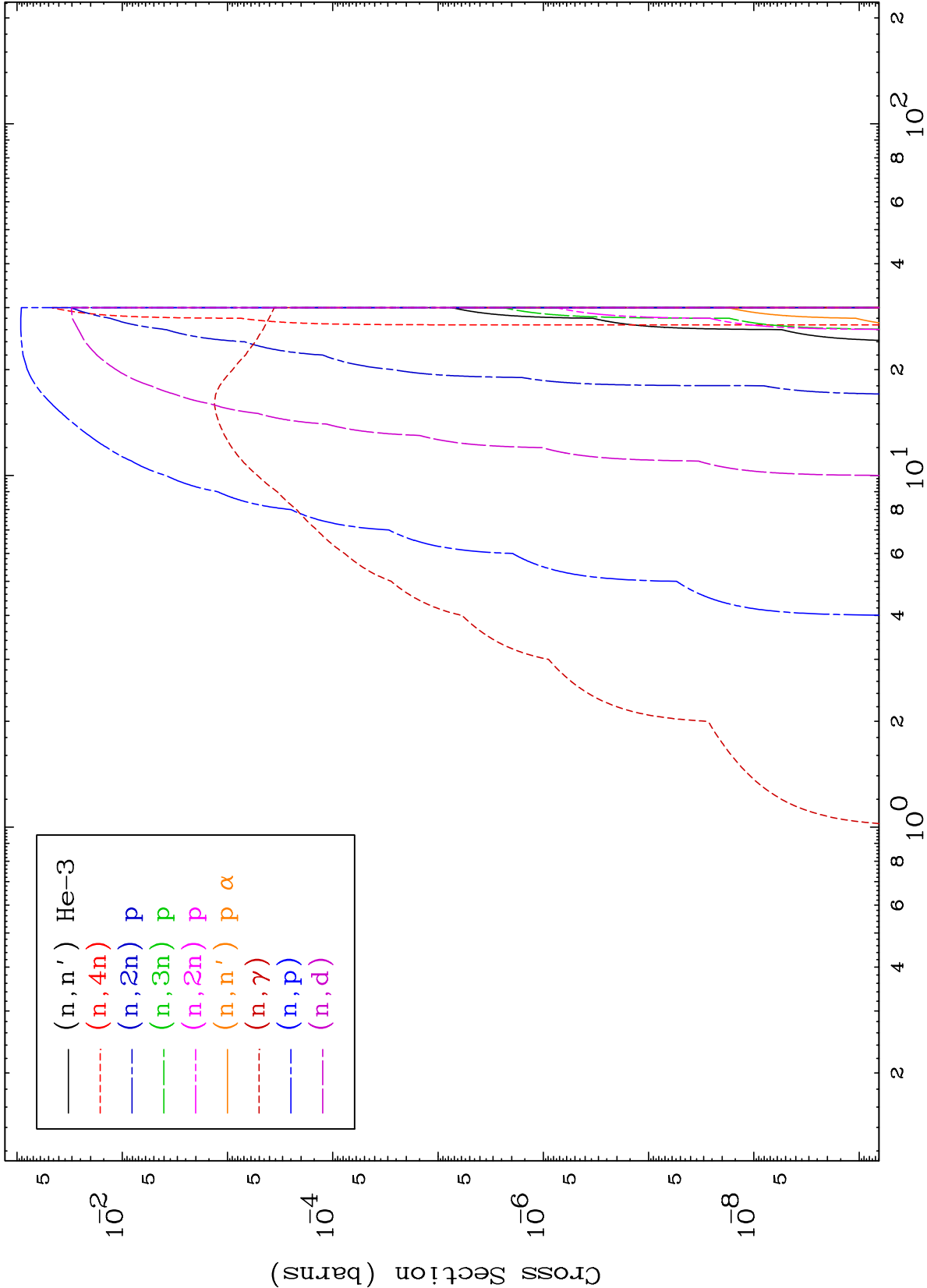
Tele: 925-443-1911

E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



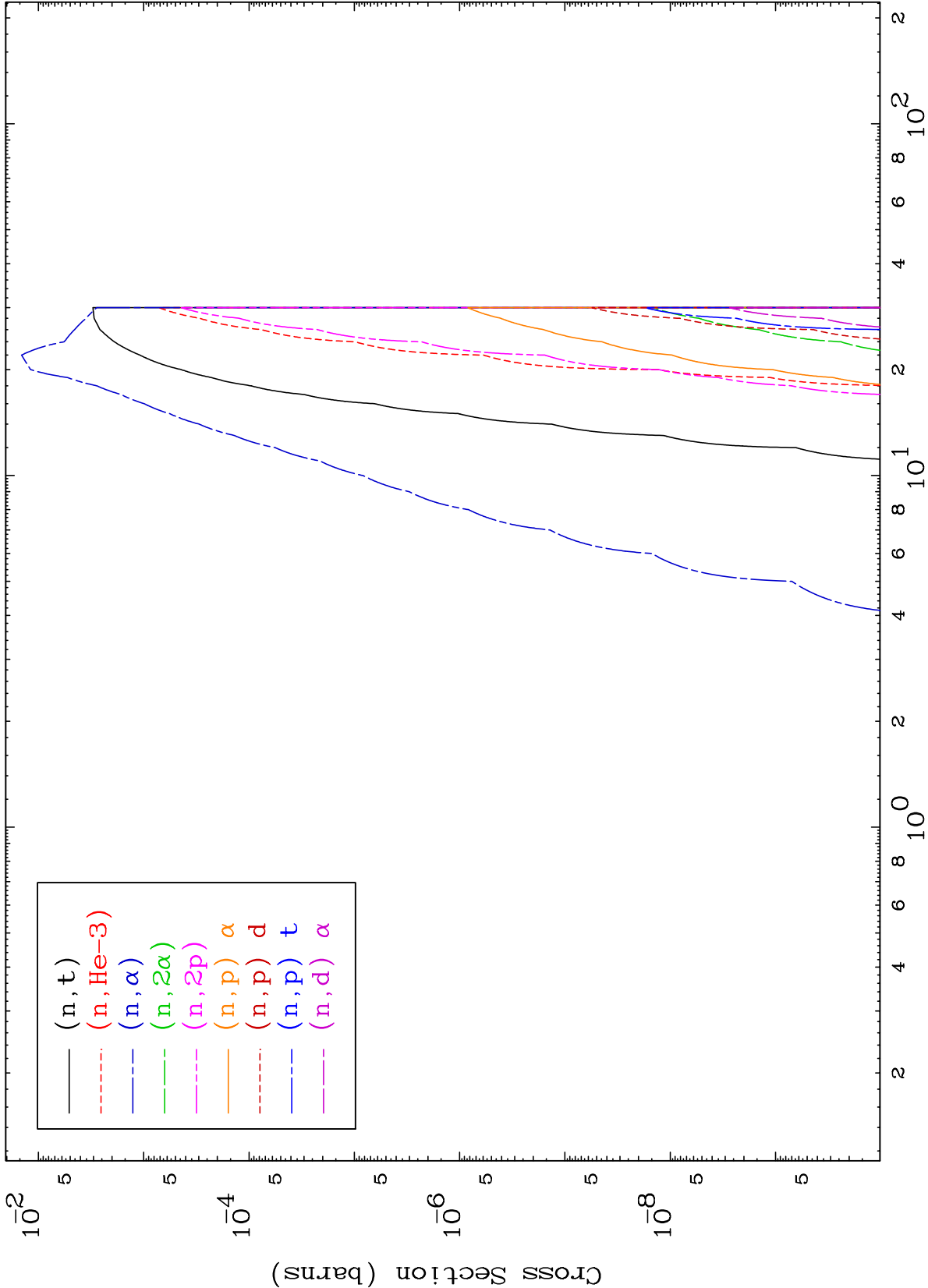


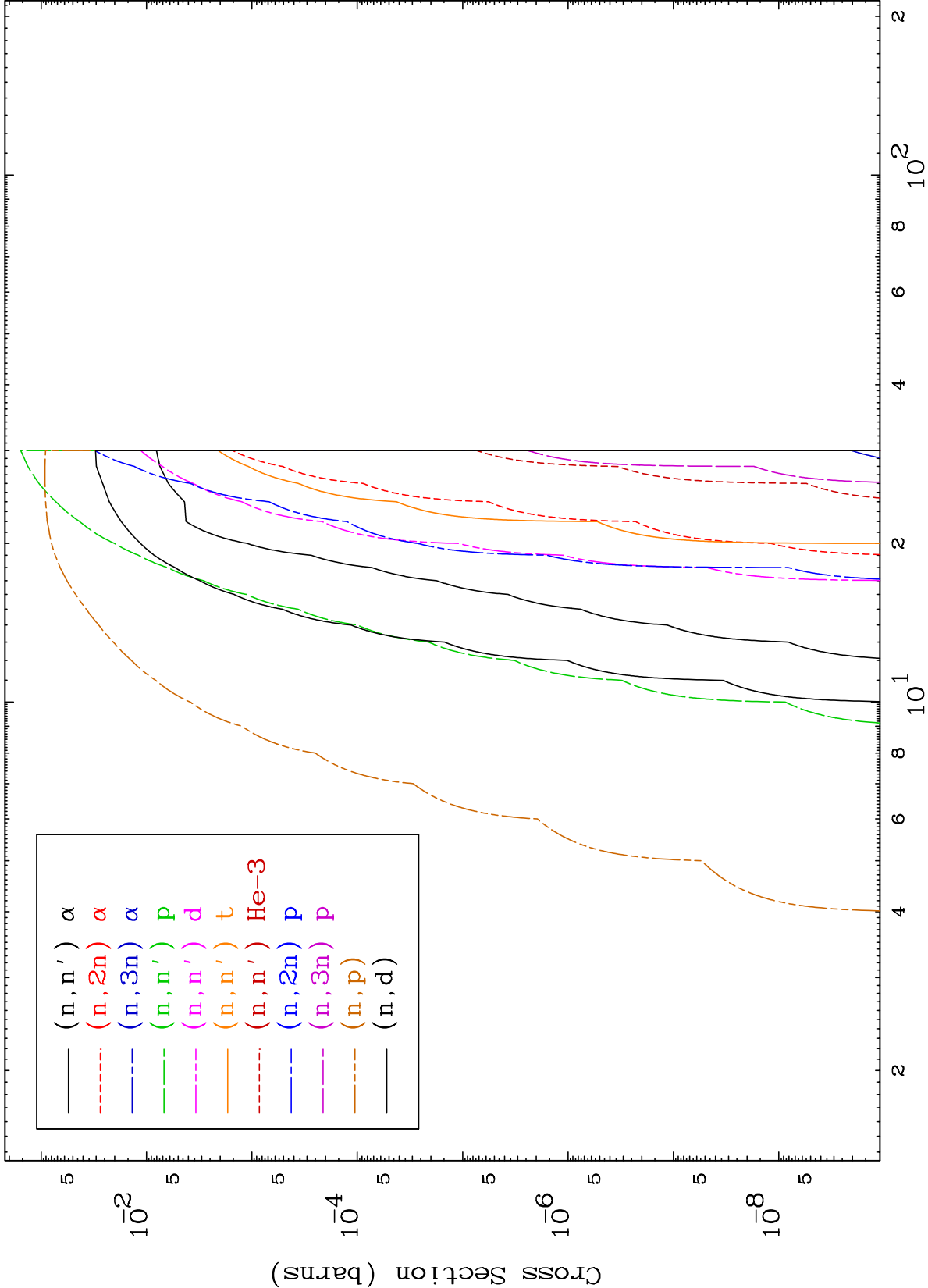


MAT 5649

Proton Neutron Absorption
0 Kelvin Cross Sections

56-Ba-138

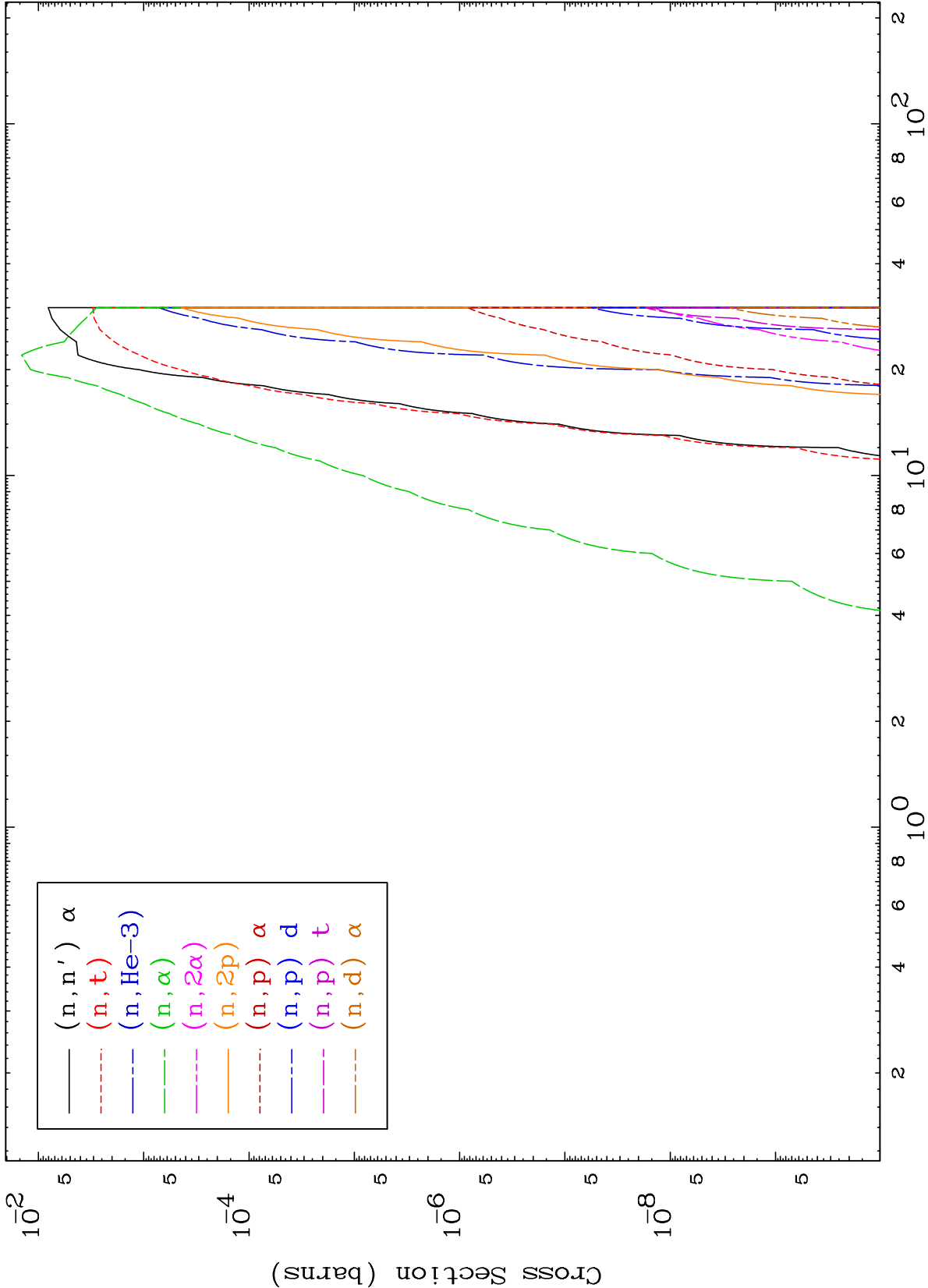




MAT 5649

Proton Charged Particle
0 Kelvin Cross Sections

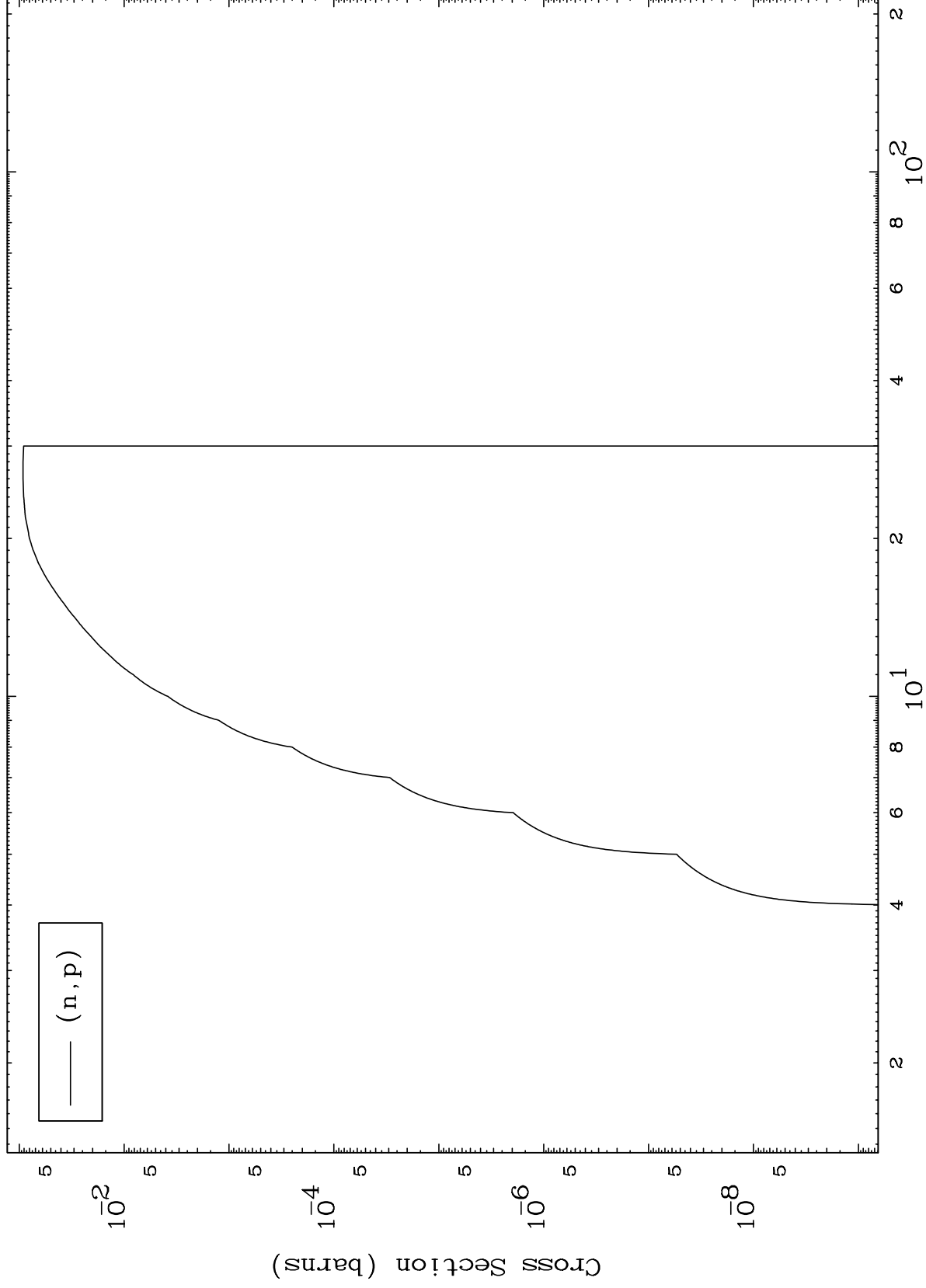
56-Ba-138



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56-Ba-138

(p,p) Levels
0 Kelvin Cross Sections

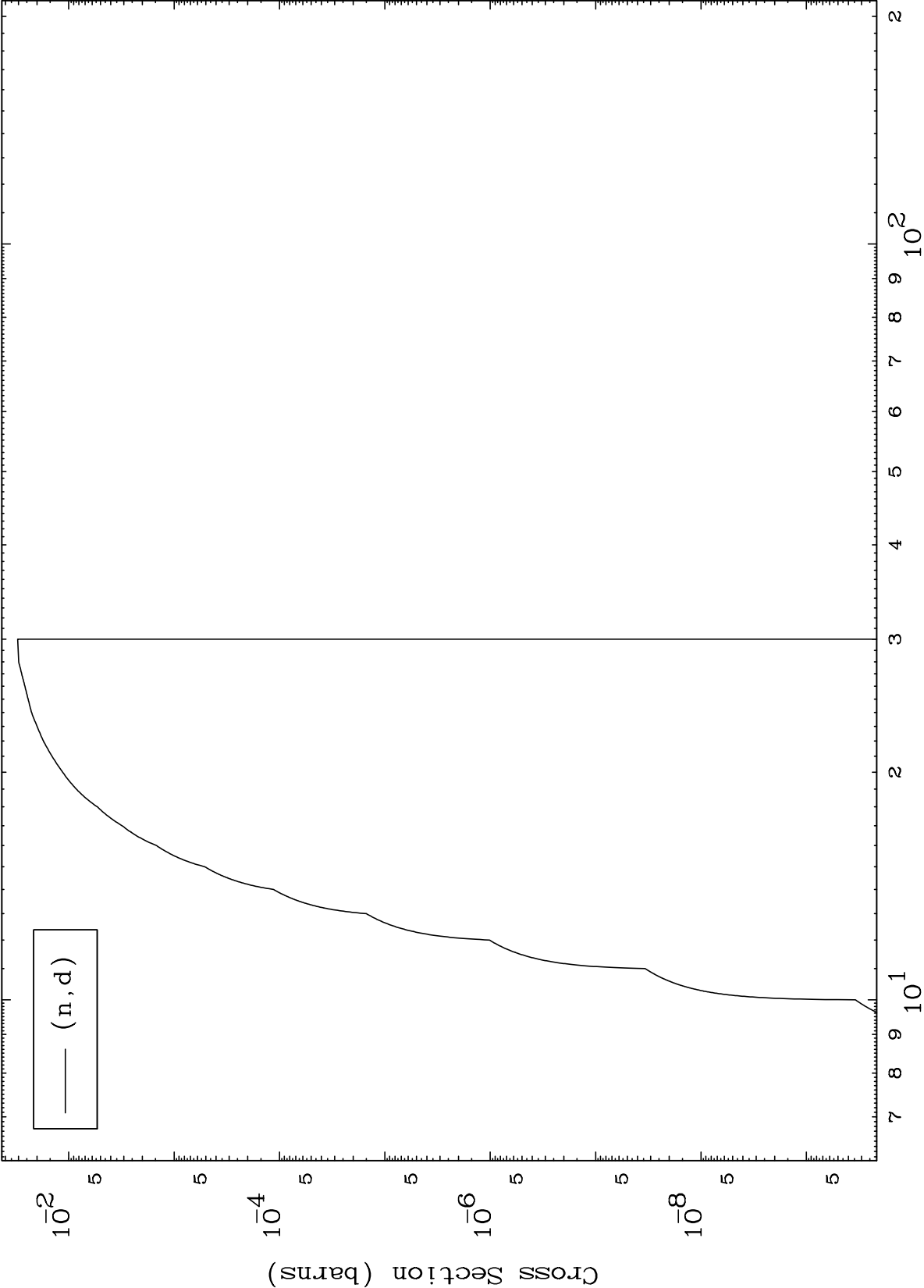


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56-Ba-138

Incident Energy (MeV)

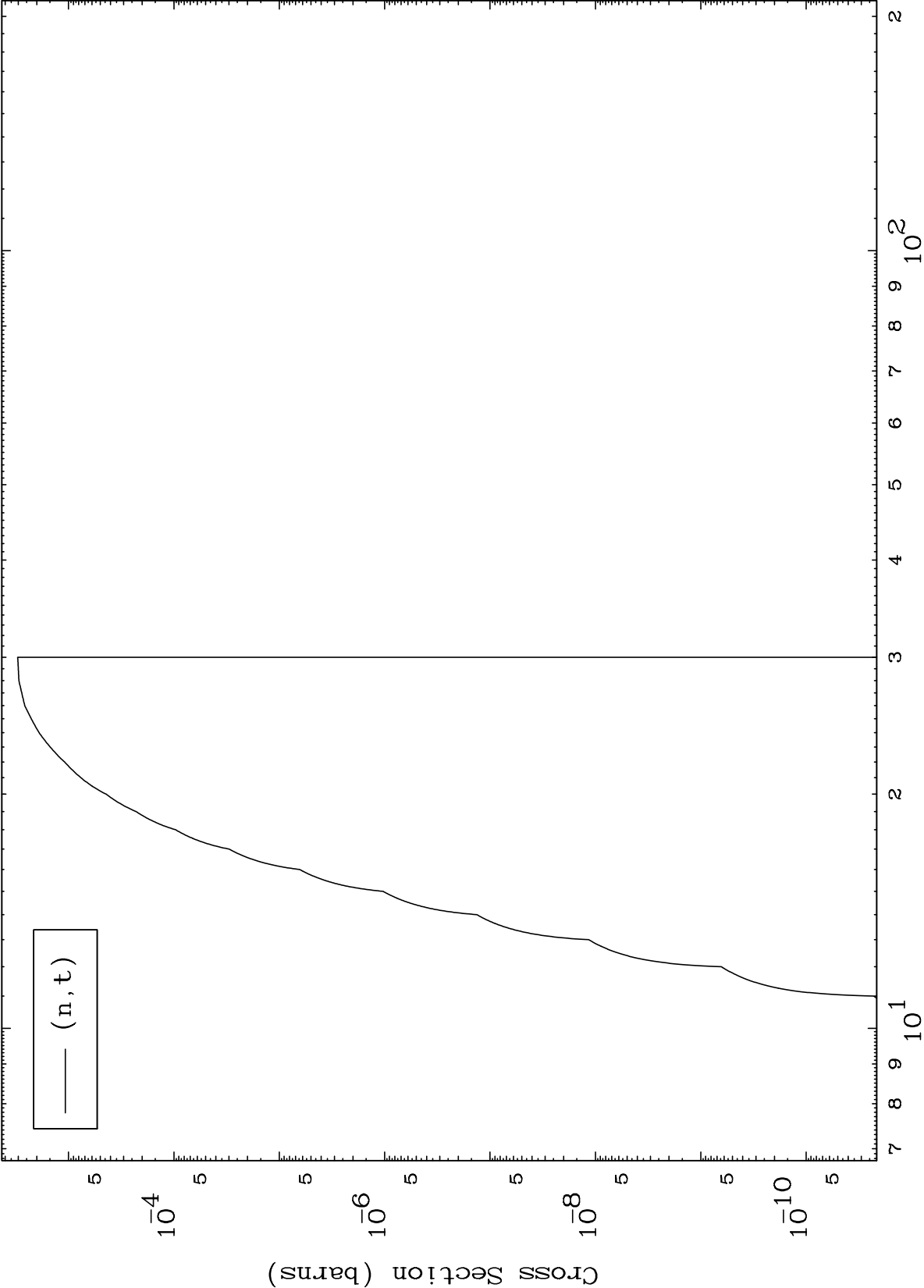
(p,d) Levels
0 Kelvin Cross Sections



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56-Ba-138

(p,t) Levels
0 Kelvin Cross Sections

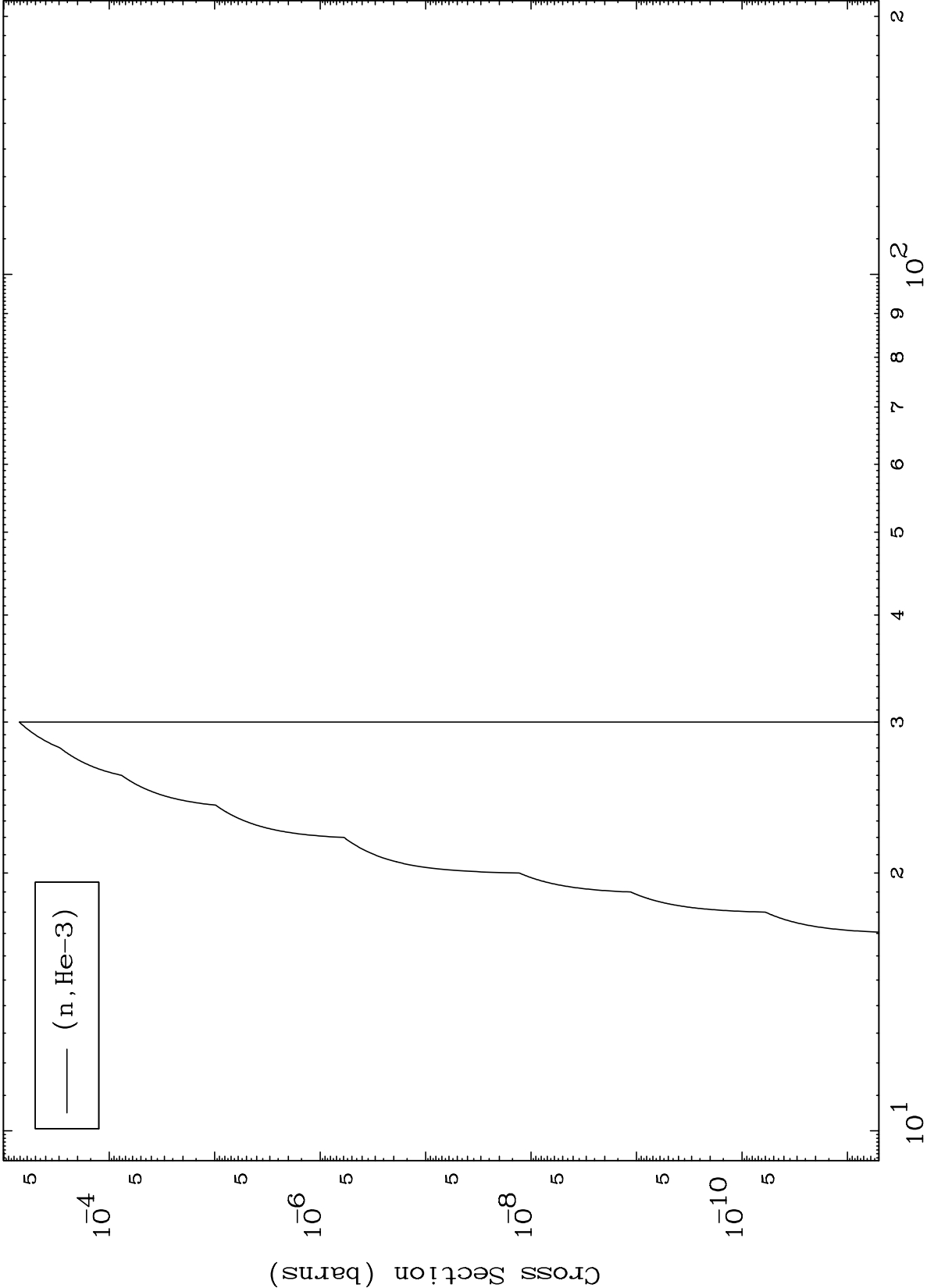


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(p,He3) Levels

56-Ba-138

0 Kelvin Cross Sections



Incident Energy (MeV)

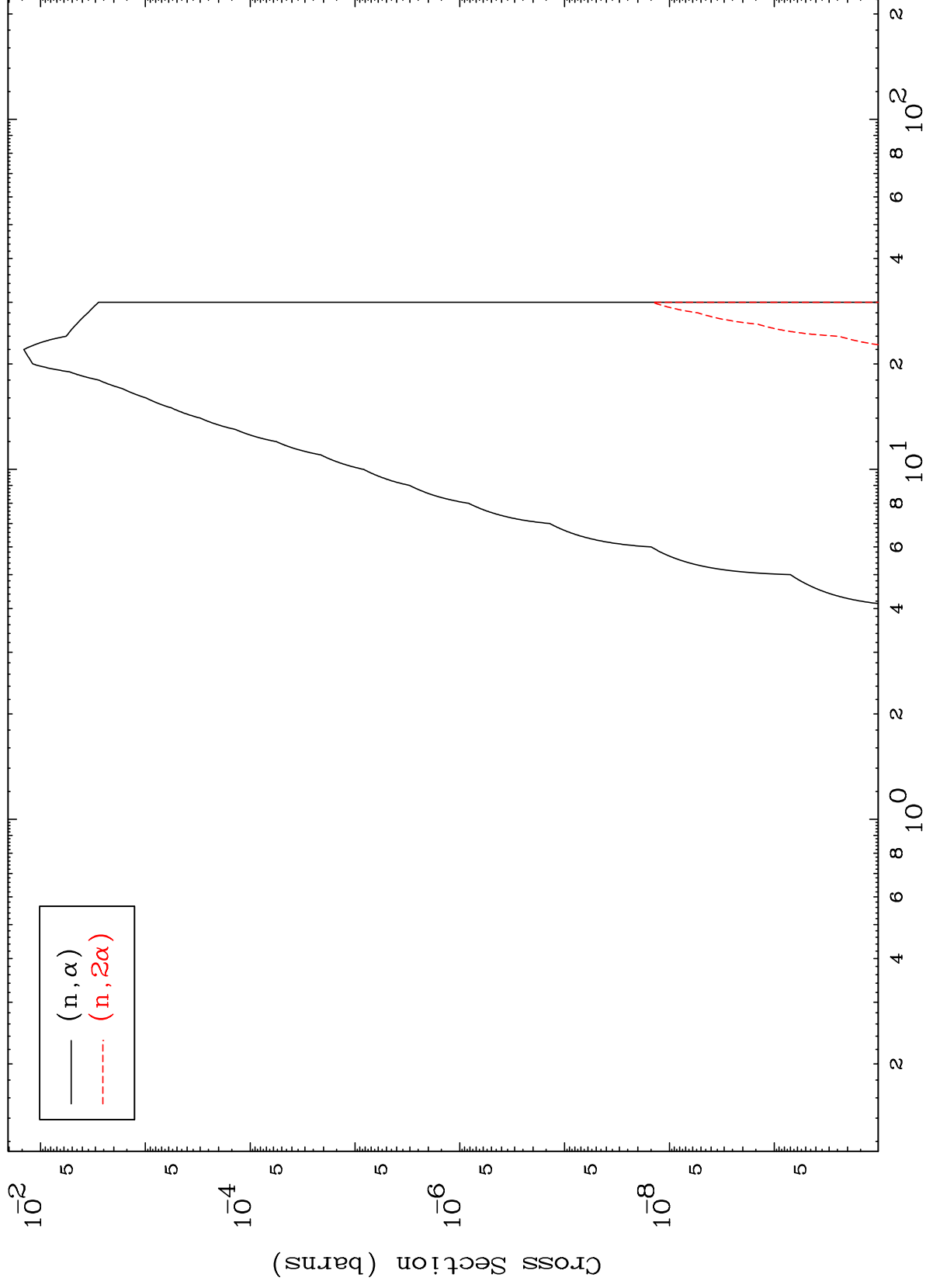
56-Ba-138

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(p, α) Levels

56-Ba-138

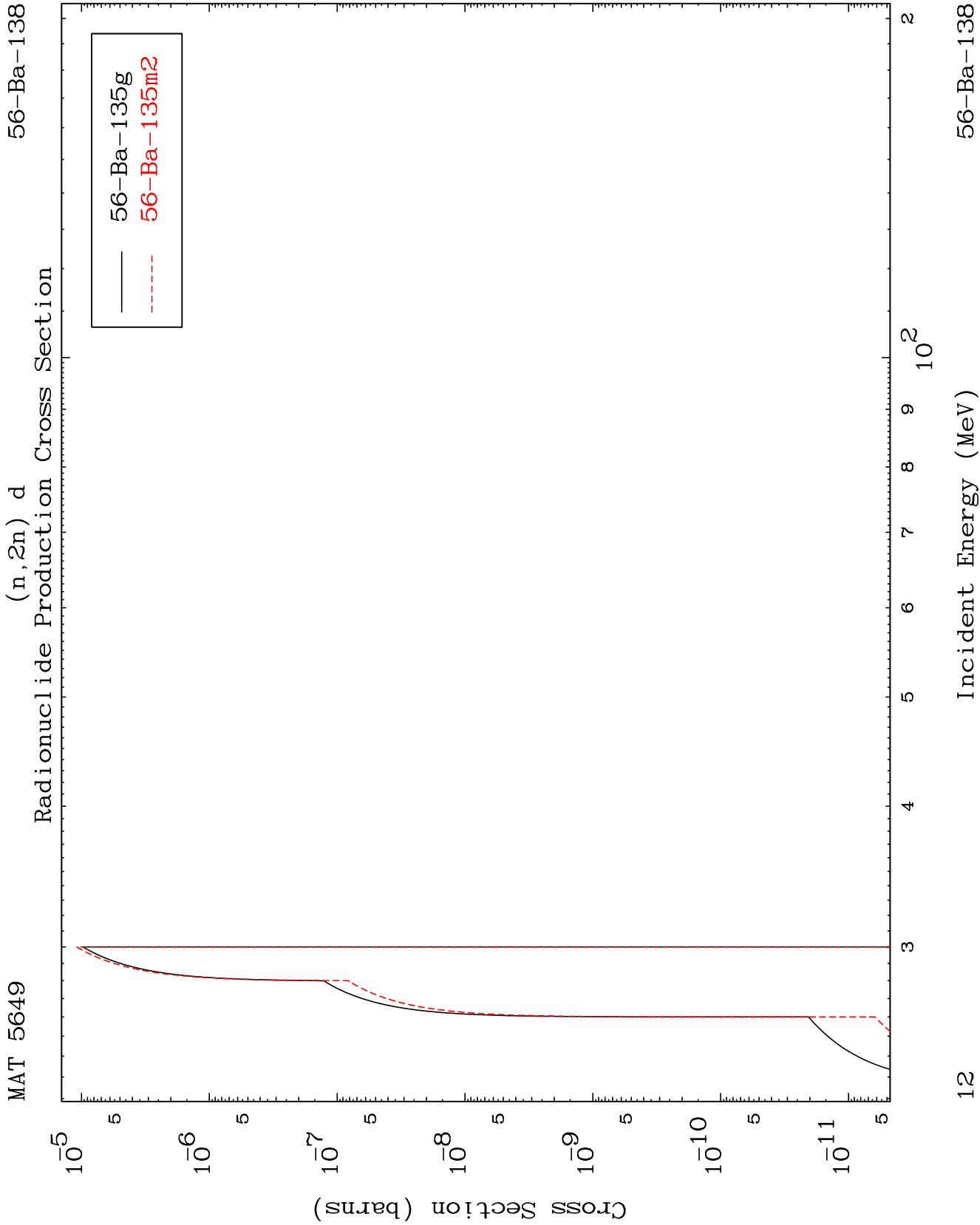
0 Kelvin Cross Sections



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Incident Energy (MeV)

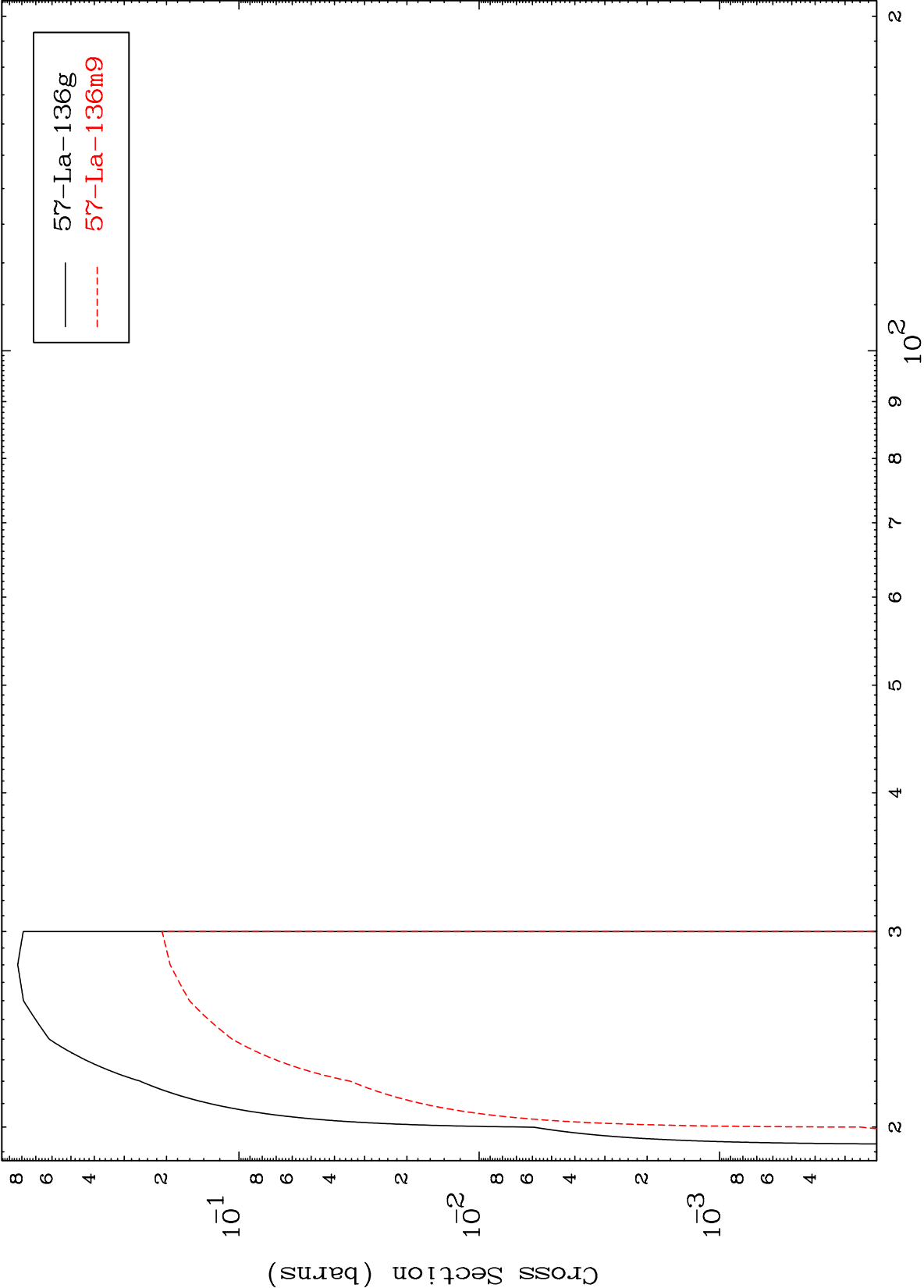
56-Ba-138



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56-Ba-138

(n,3n)
Radionuclide Production Cross Section



56-Ba-138

Incident Energy (MeV)

13

56-Ba-138

$$(n, n') \propto$$

55-Cs-134g

55-Cs-134m3

Cross Section (barns)

10⁻¹⁰

10⁻⁸

10⁻⁶

10⁻⁴

10⁻²

10¹

10²

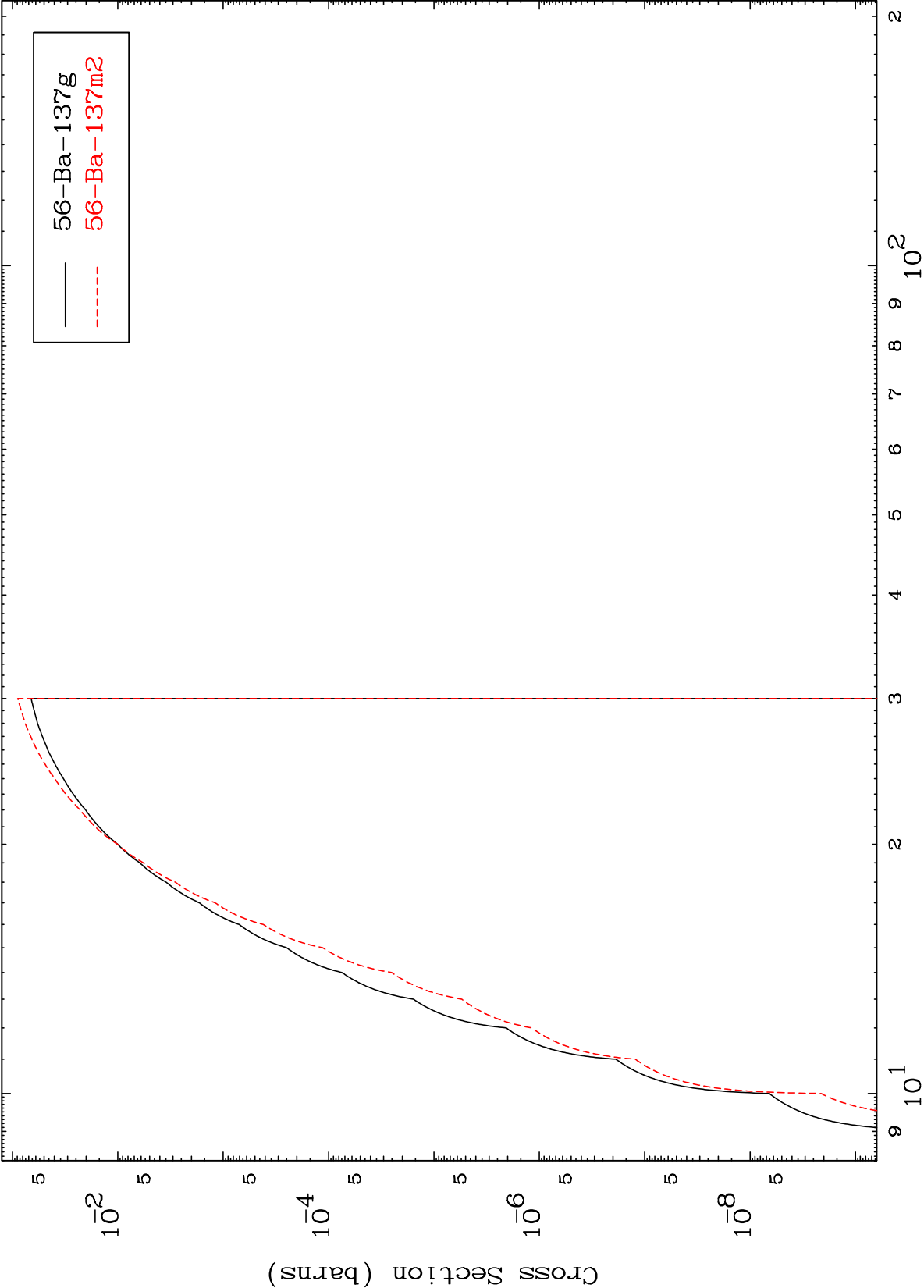
56-Ba-138

Incident Energy (MeV)

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56-Ba-138

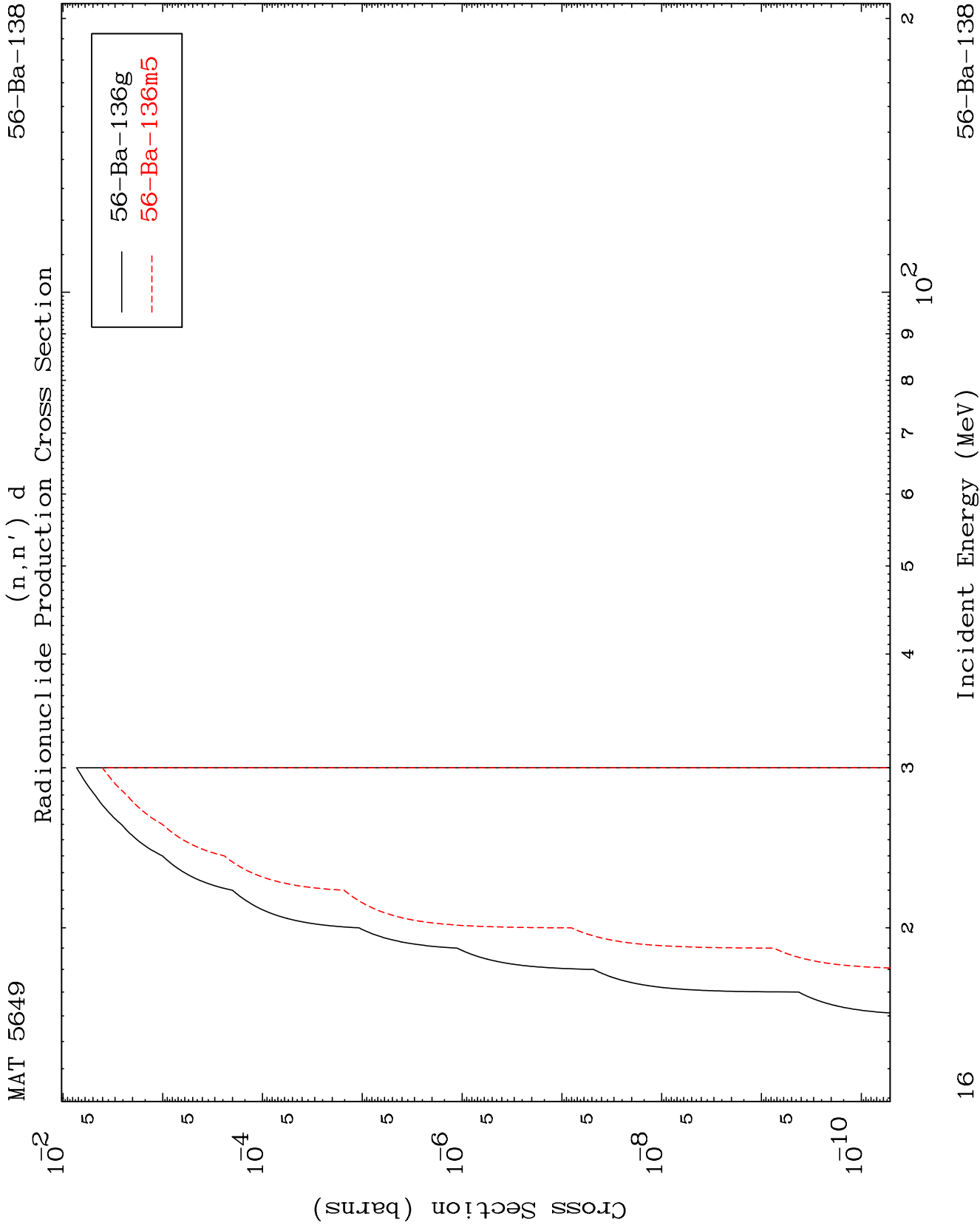
(n,n') p
Radionuclide Production Cross Section



56-Ba-138

Incident Energy (MeV)

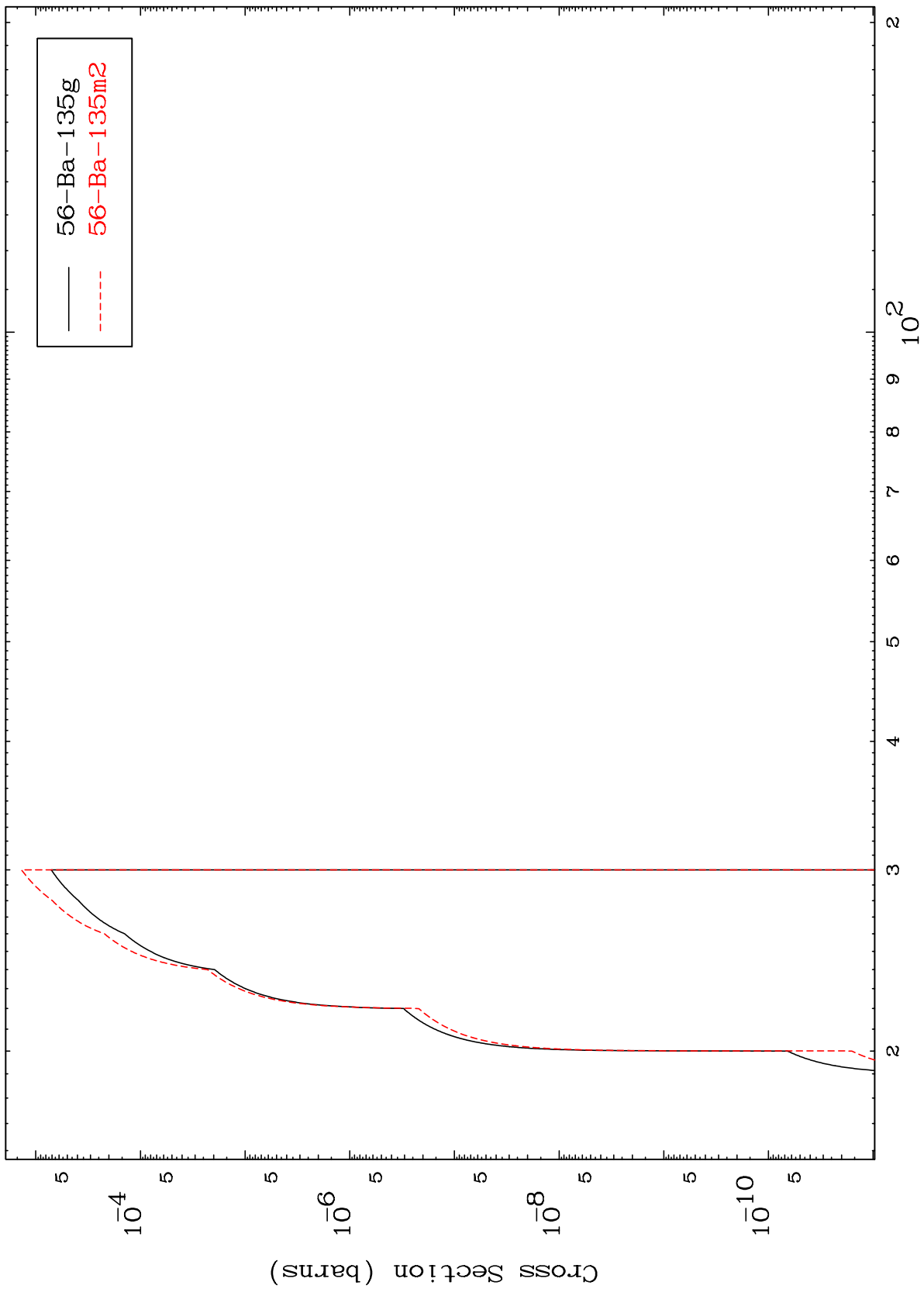
15



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56-Ba-138

(n,n') t
Radionuclide Production Cross Section

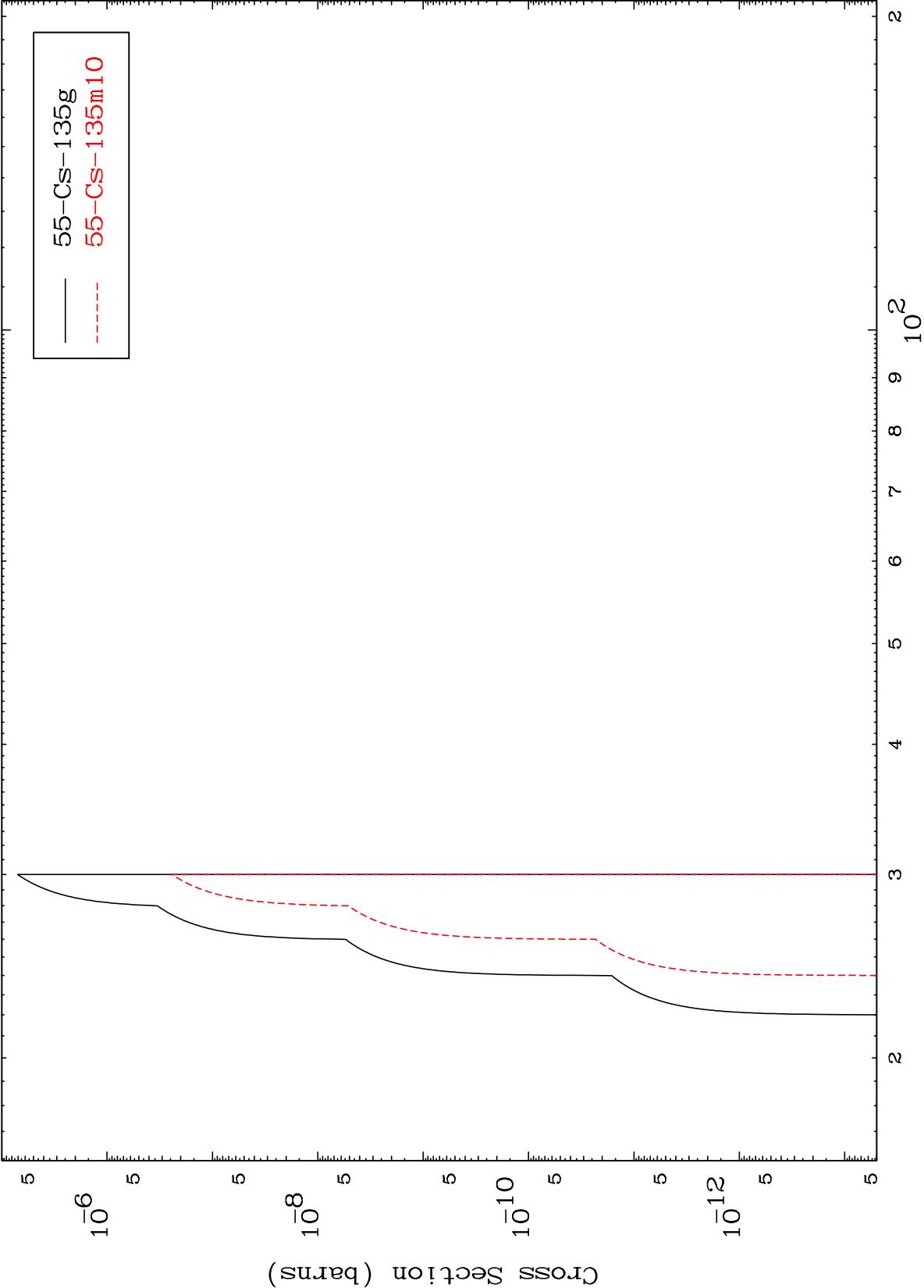


56-Ba-138

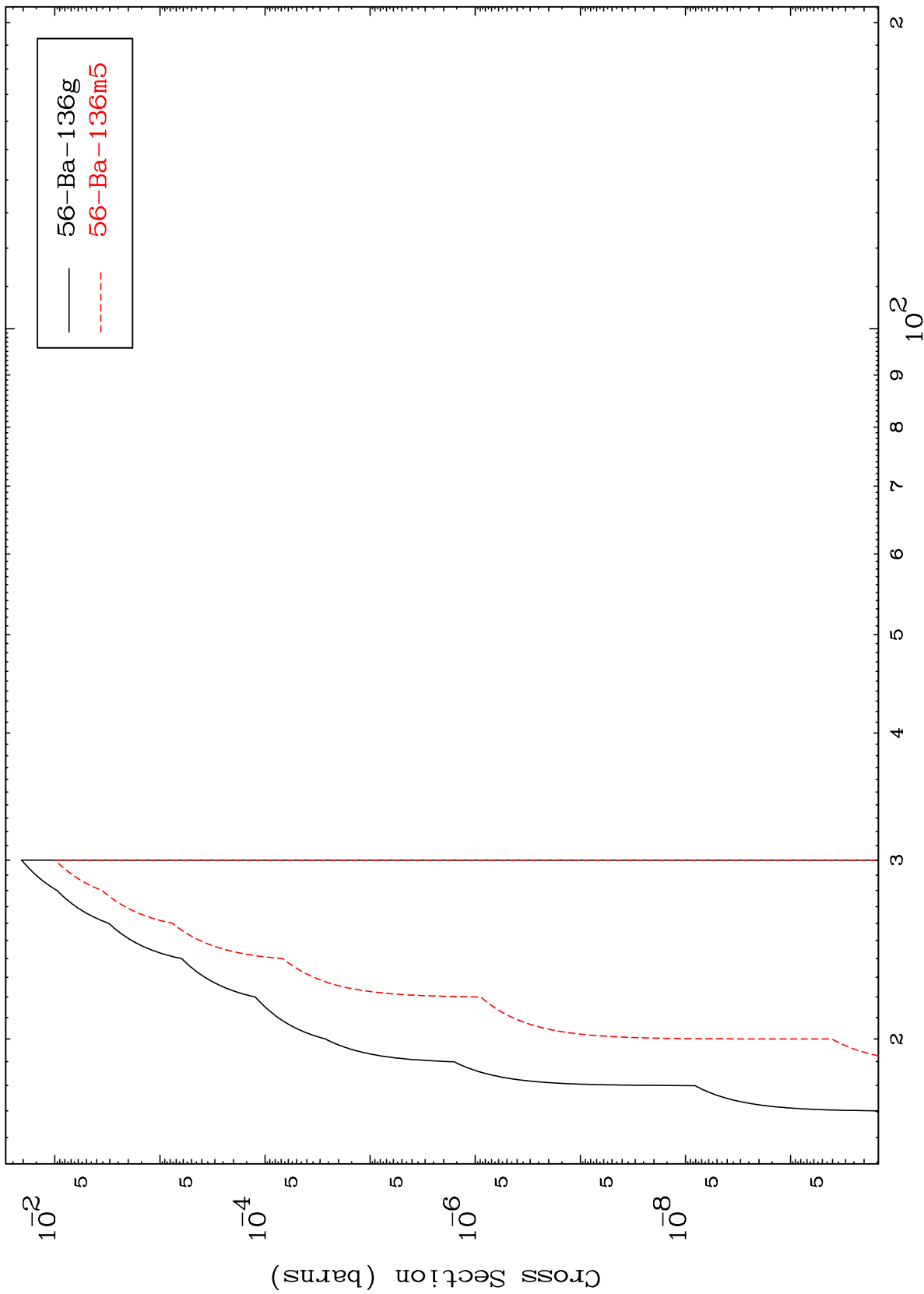
Incident Energy (MeV)

17

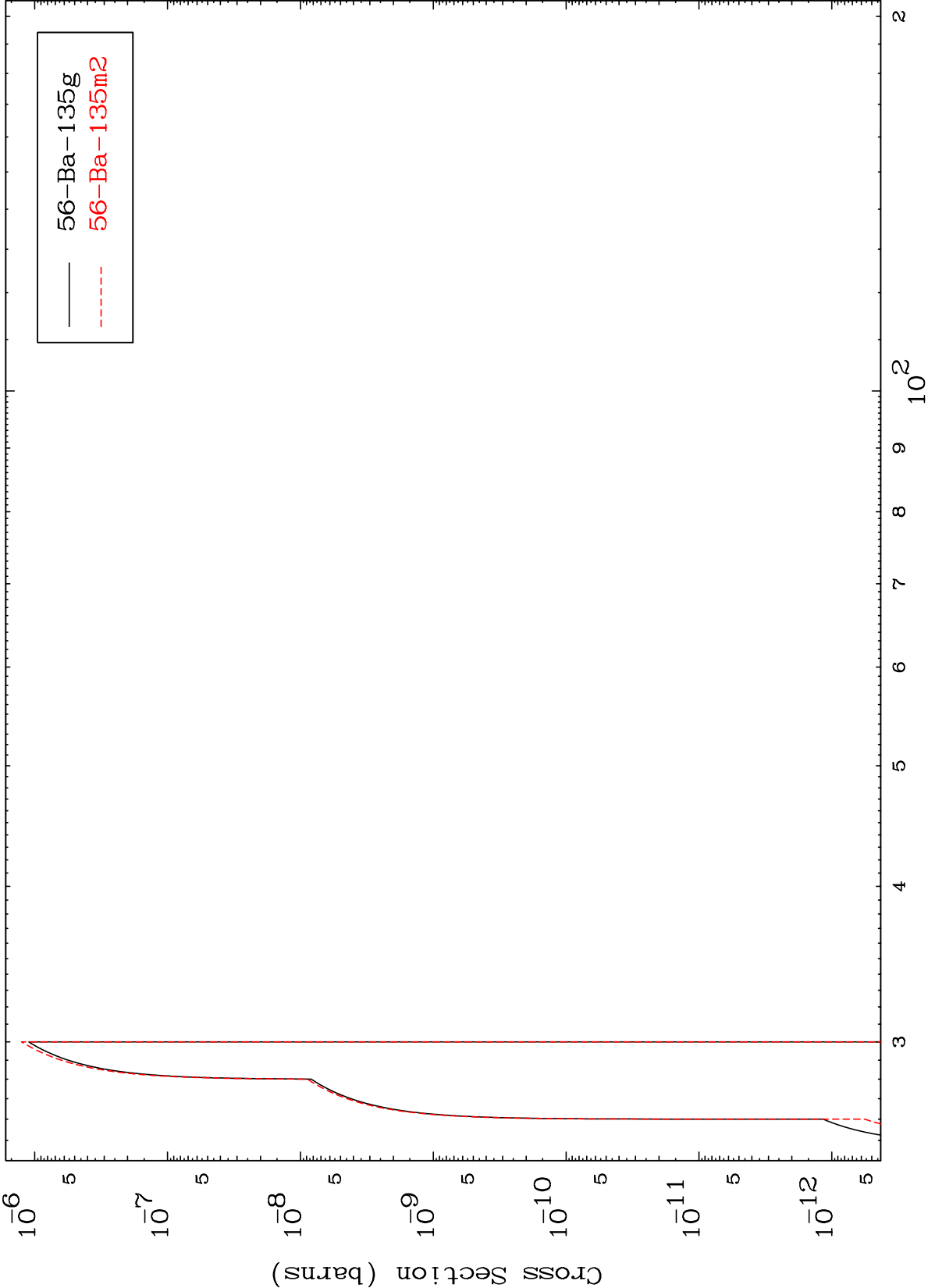
Radionuclide Production Cross Section



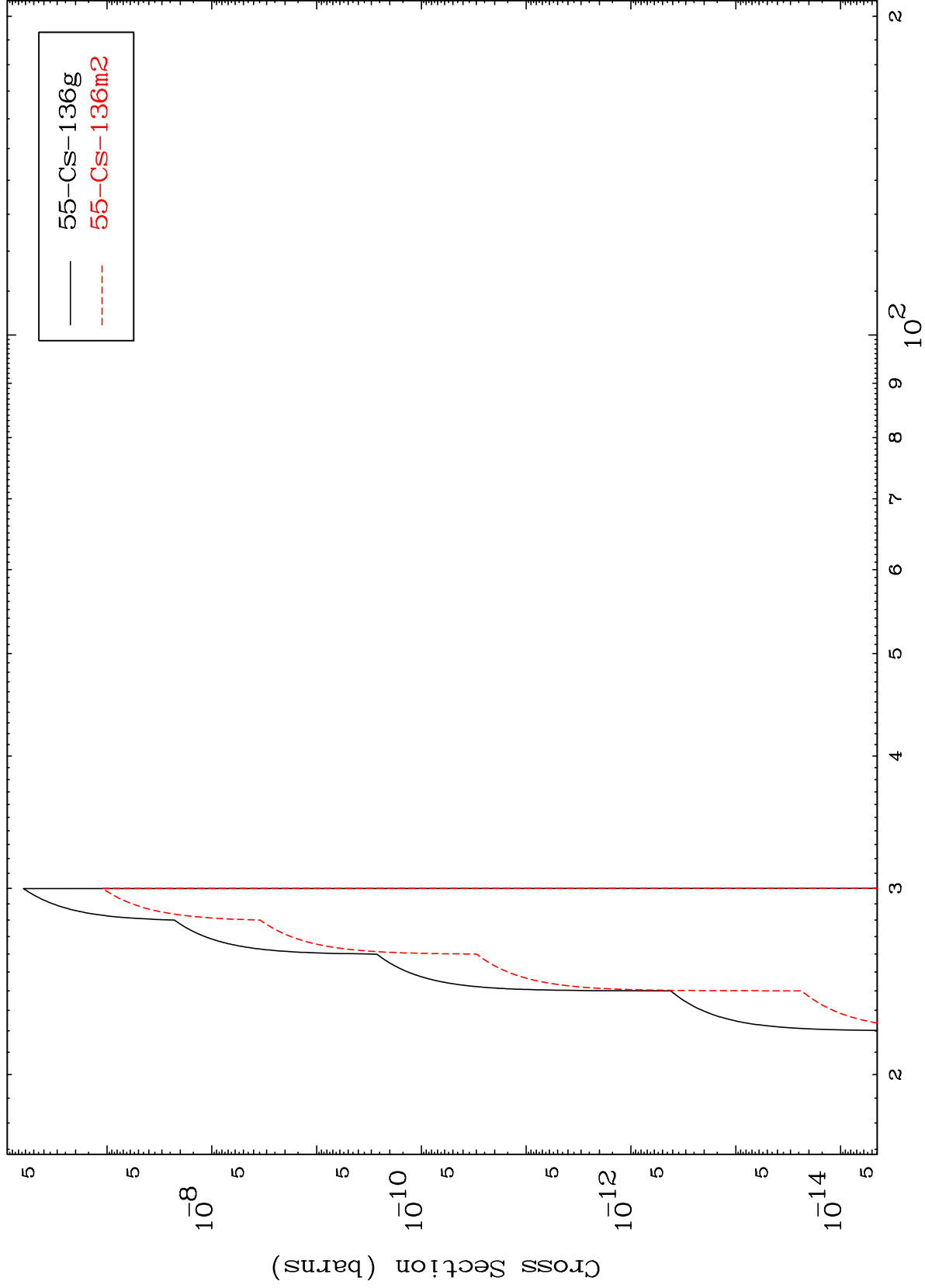
(n,2n) p
Radionuclide Production Cross Section



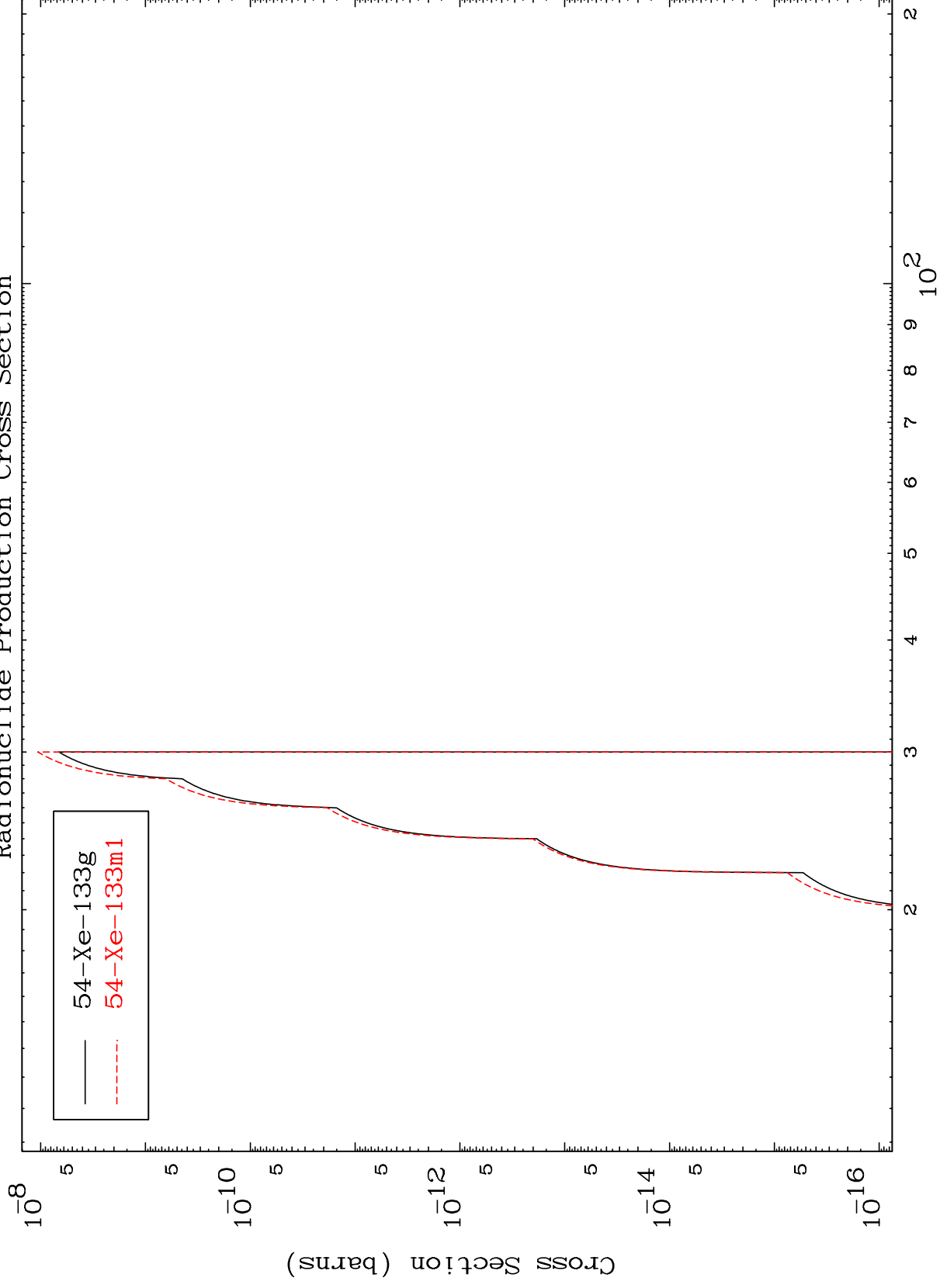
(n,3n) p
Radionuclide Production Cross Section



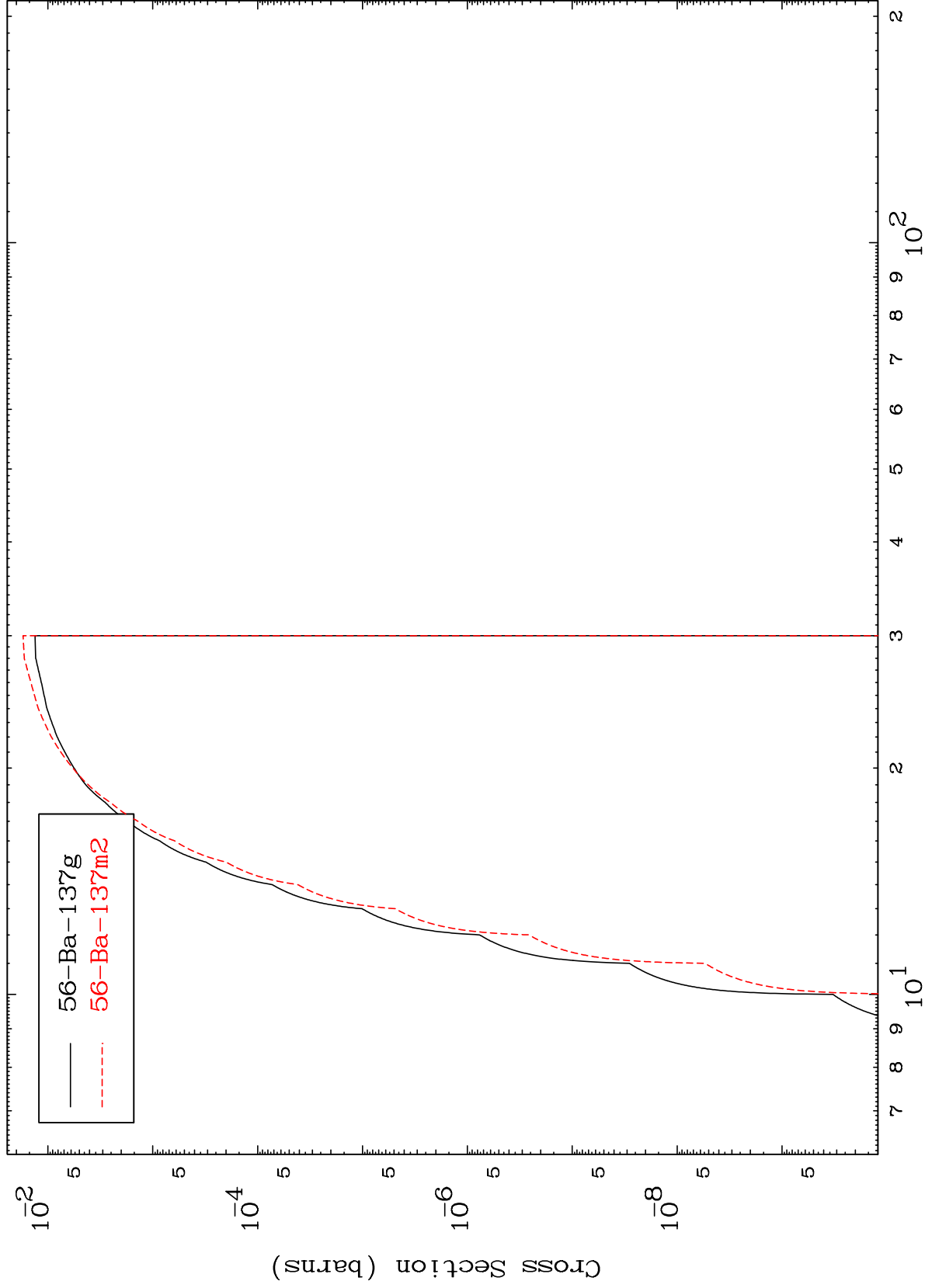
(n,2n) p
Radionuclide Production Cross Section



(n,n') p α
Radionuclide Production Cross Section



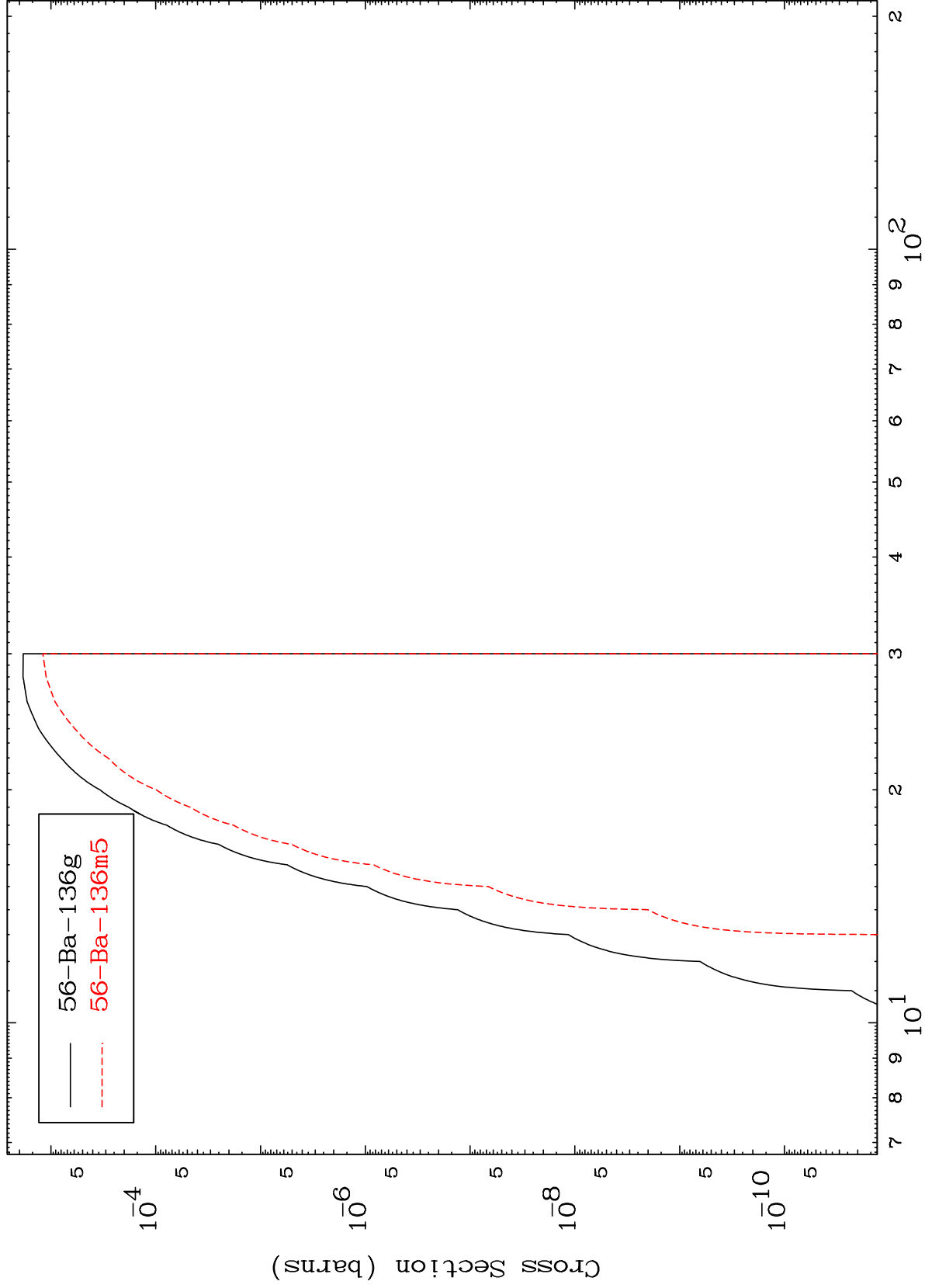
Radionuclide Production Cross Section (n,d)



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Radionuclide Production Cross Section
(n,t)



24

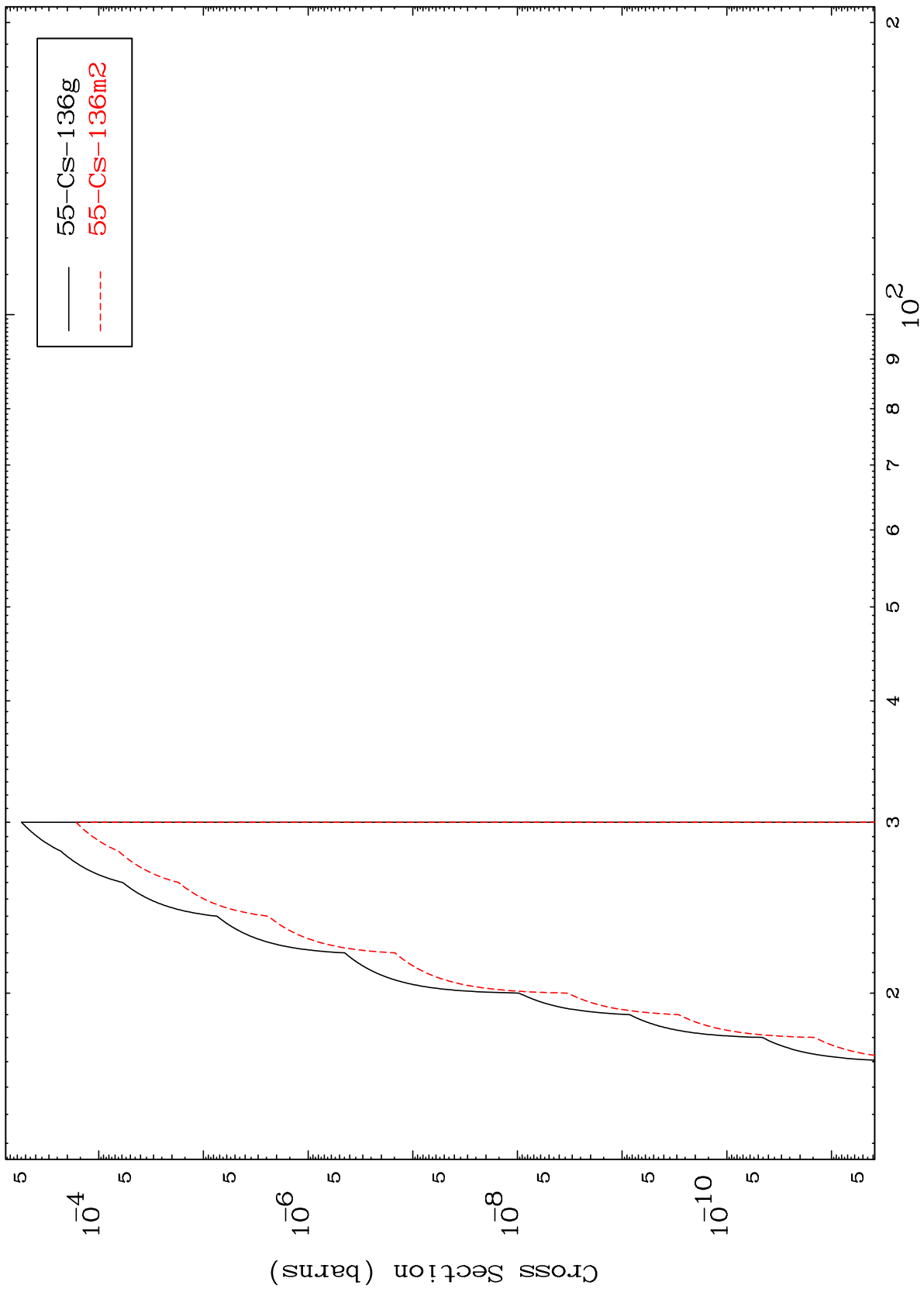
Incident Energy (MeV)

56-Ba-138

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56-Ba-138

(n,He-3)
Radionuclide Production Cross Section



25

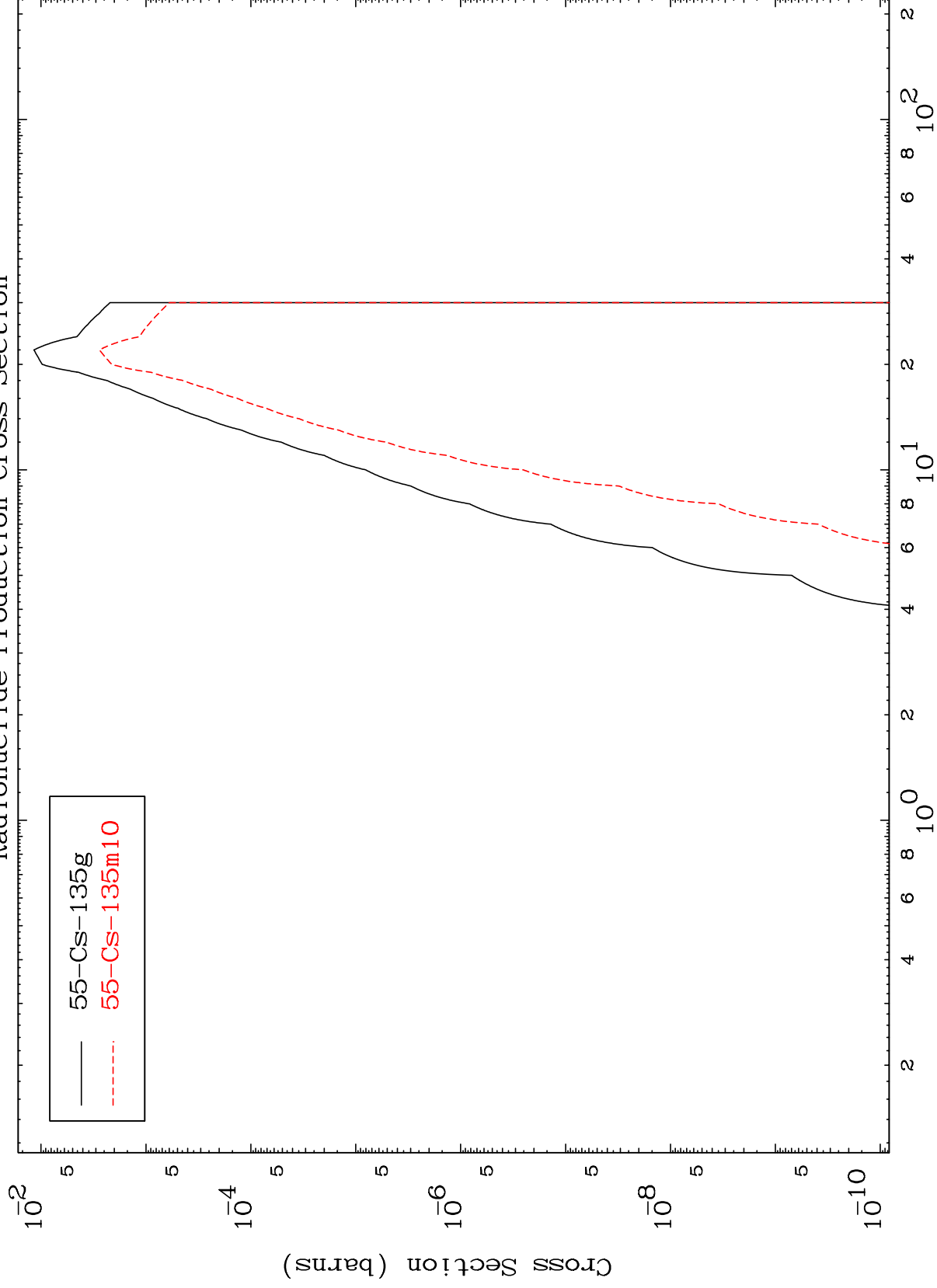
Incident Energy (MeV)

56-Ba-138

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56-Ba-138

Radionuclide Production Cross Section
(n, α)



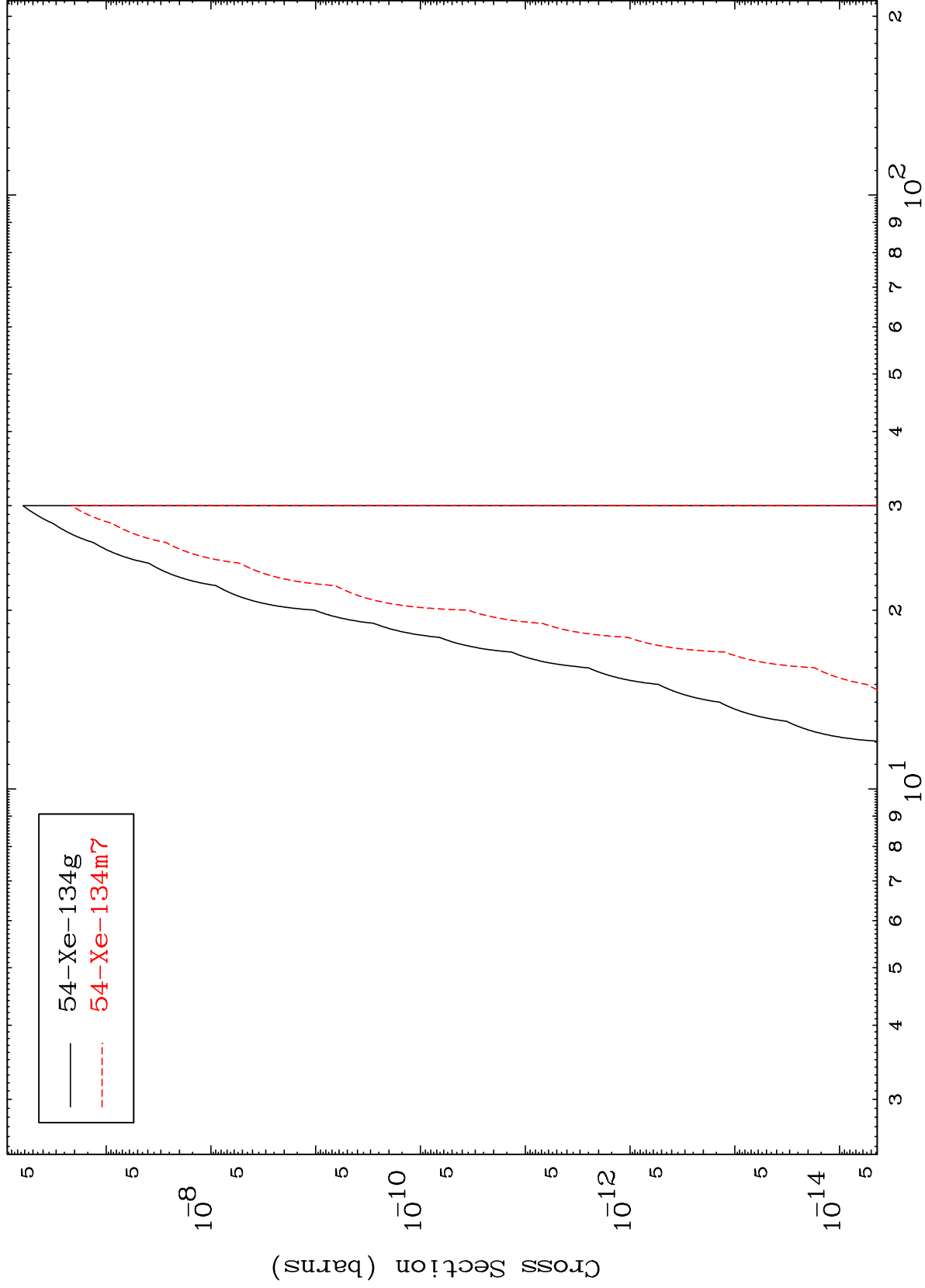
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56-Ba-138

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56-Ba-138

(n,p) α
Radionuclide Production Cross Section



27

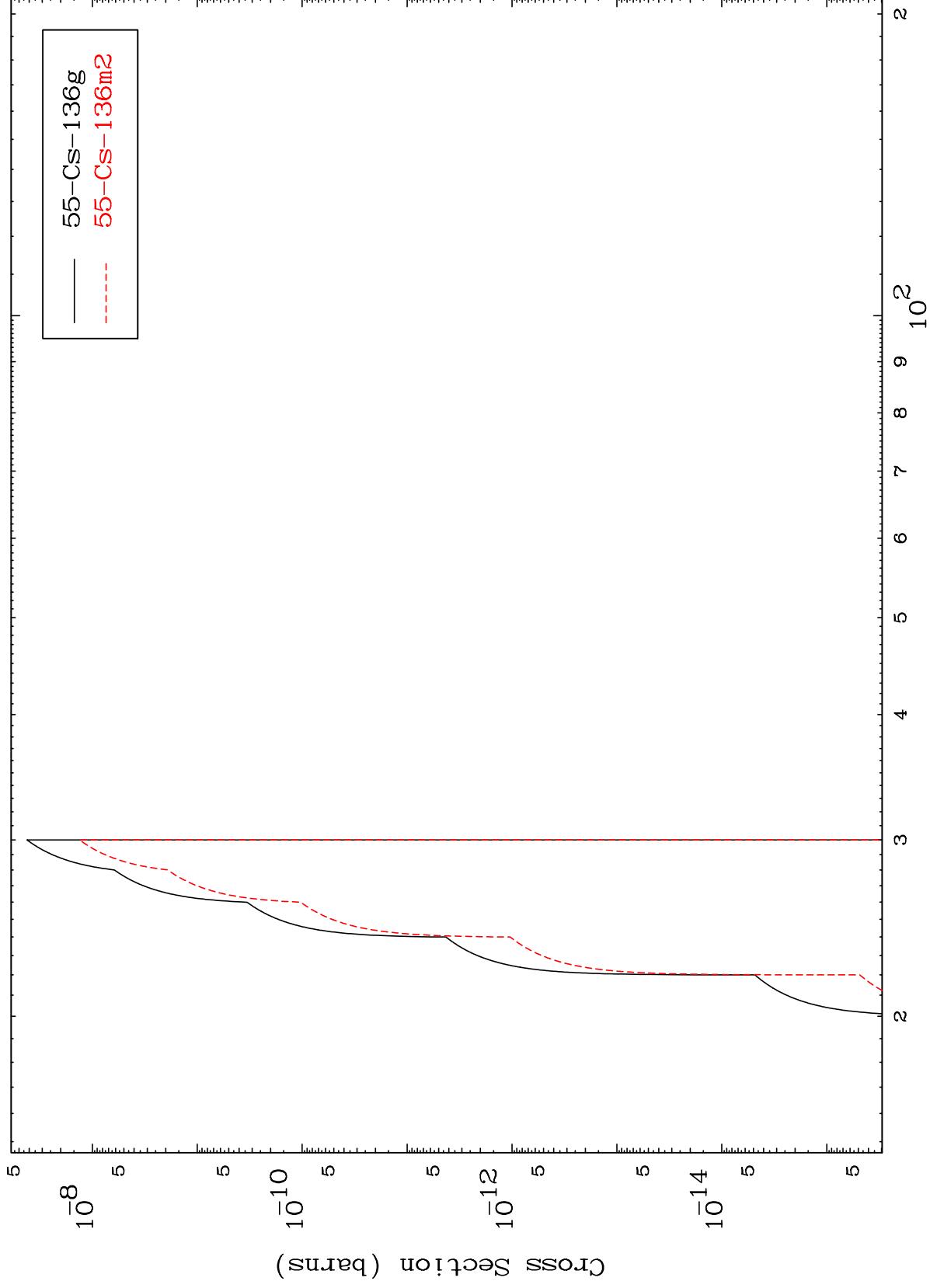
Incident Energy (MeV)

56-Ba-138

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56-Ba-138

(n,p) d
Radionuclide Production Cross Section



28

Incident Energy (MeV)

56-Ba-138

Radionuclide Production Cross Section

