

Program EVALPLOT  
(Version 2018-1)

by

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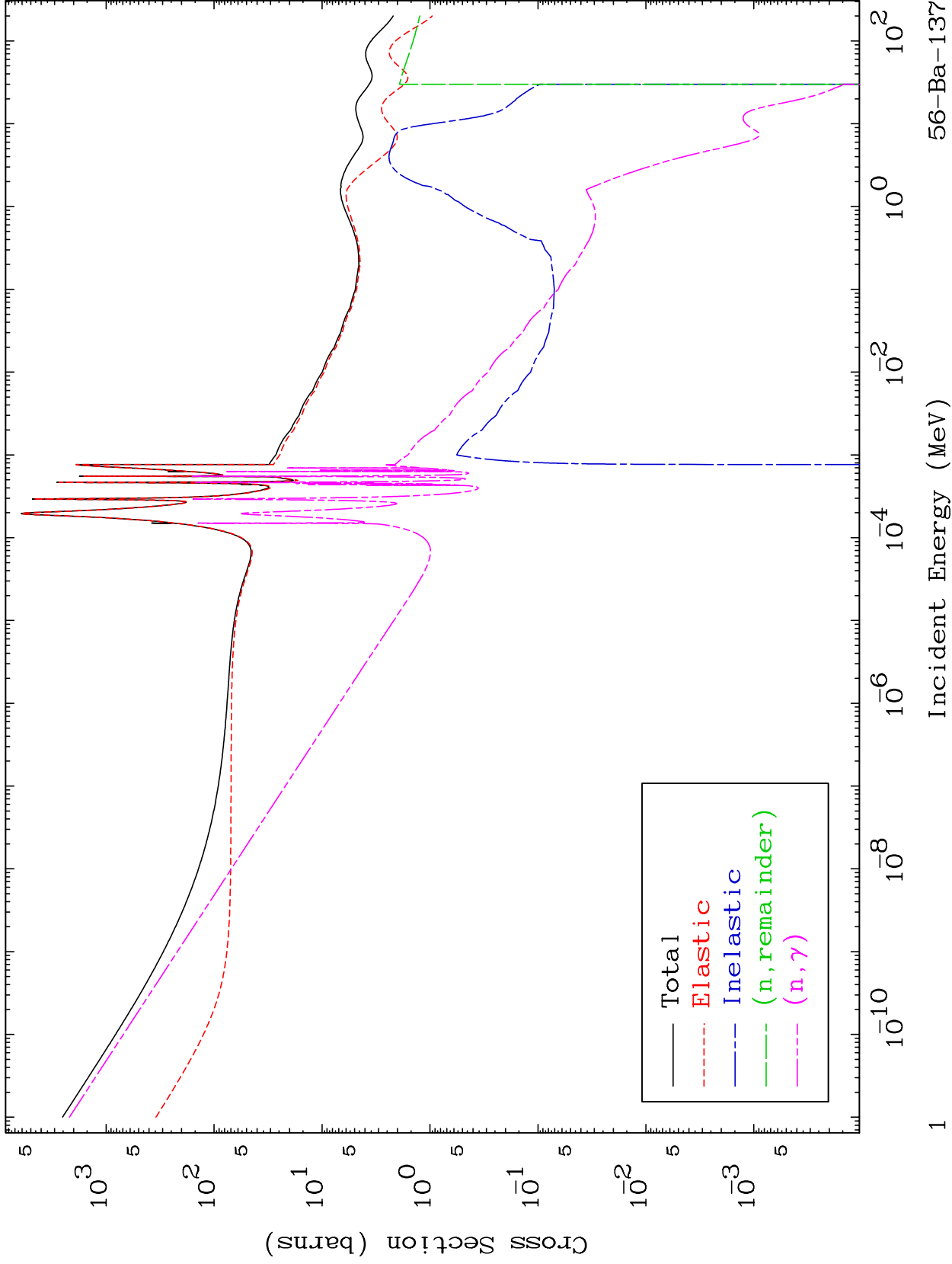
Press Mouse Button to Start

MAT 5647

Major

293 Kelvin Cross Sections

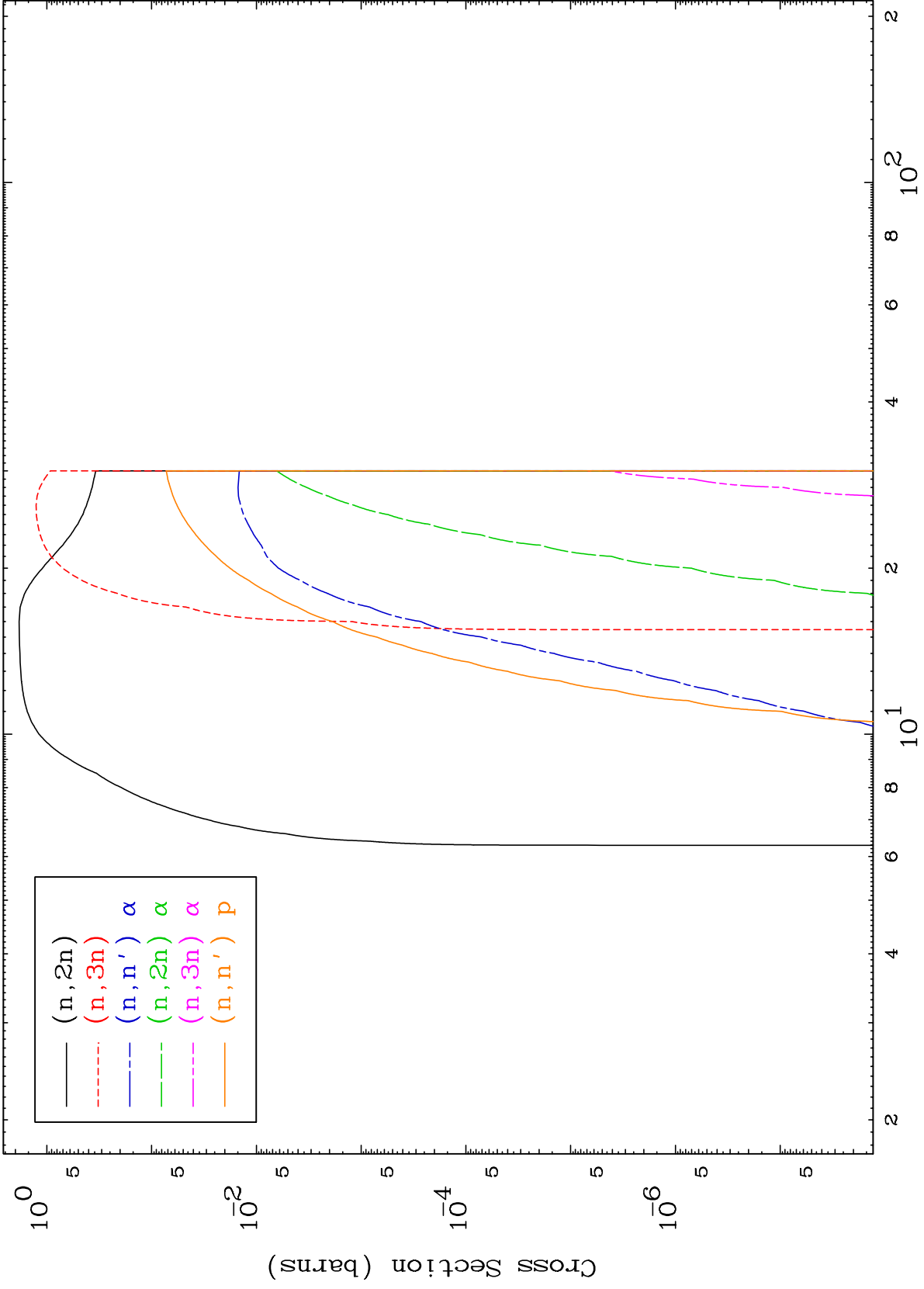
56-Ba-137



MAT 5647

Neutron Production  
293 Kelvin Cross Sections

56-Ba-137

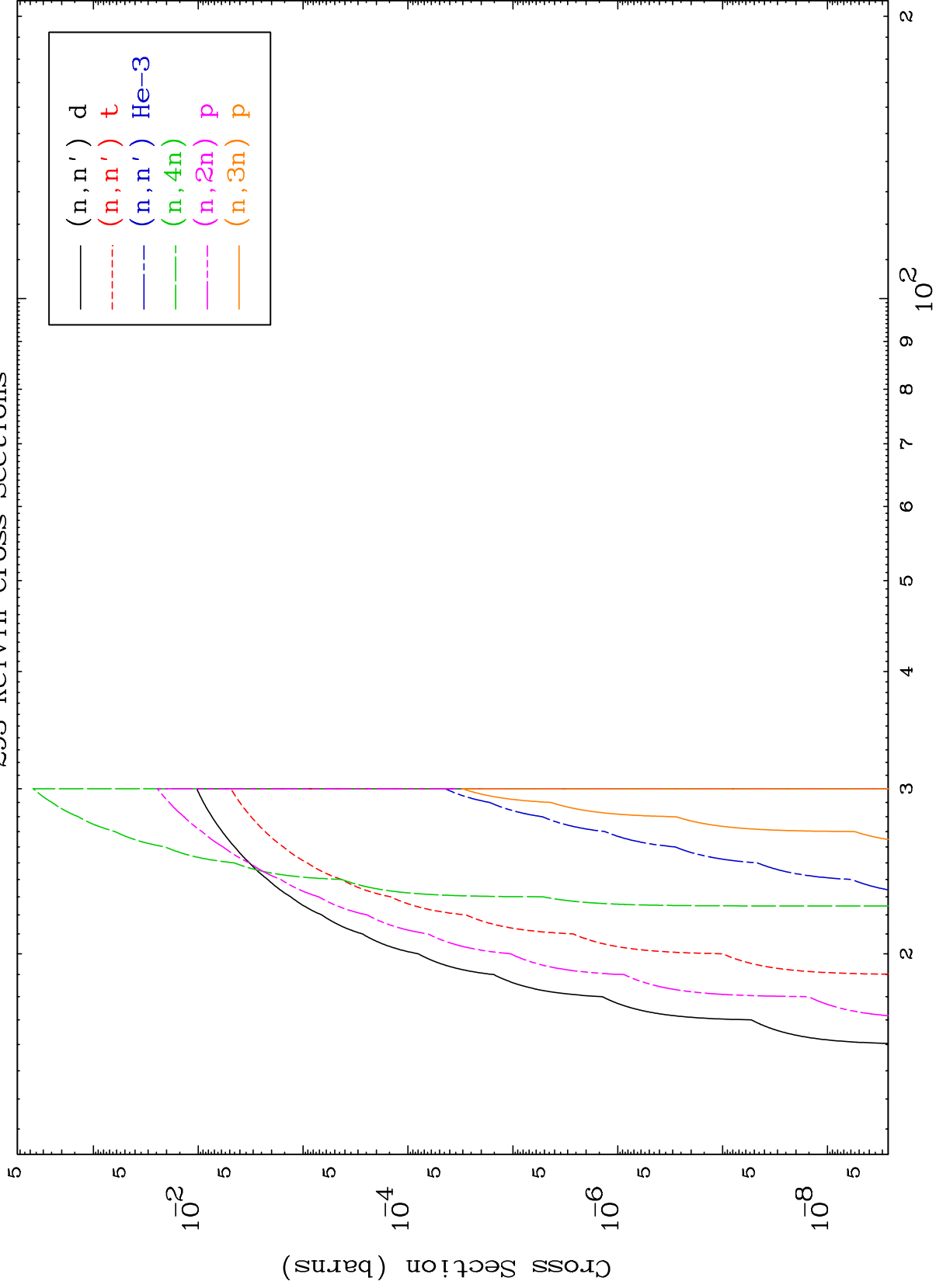


- (n, 2n)
- (n, 3n)
- (n, n')
- (n, 2n)
- (n, 3n)
- (n, n')

2

Incident Energy (MeV)

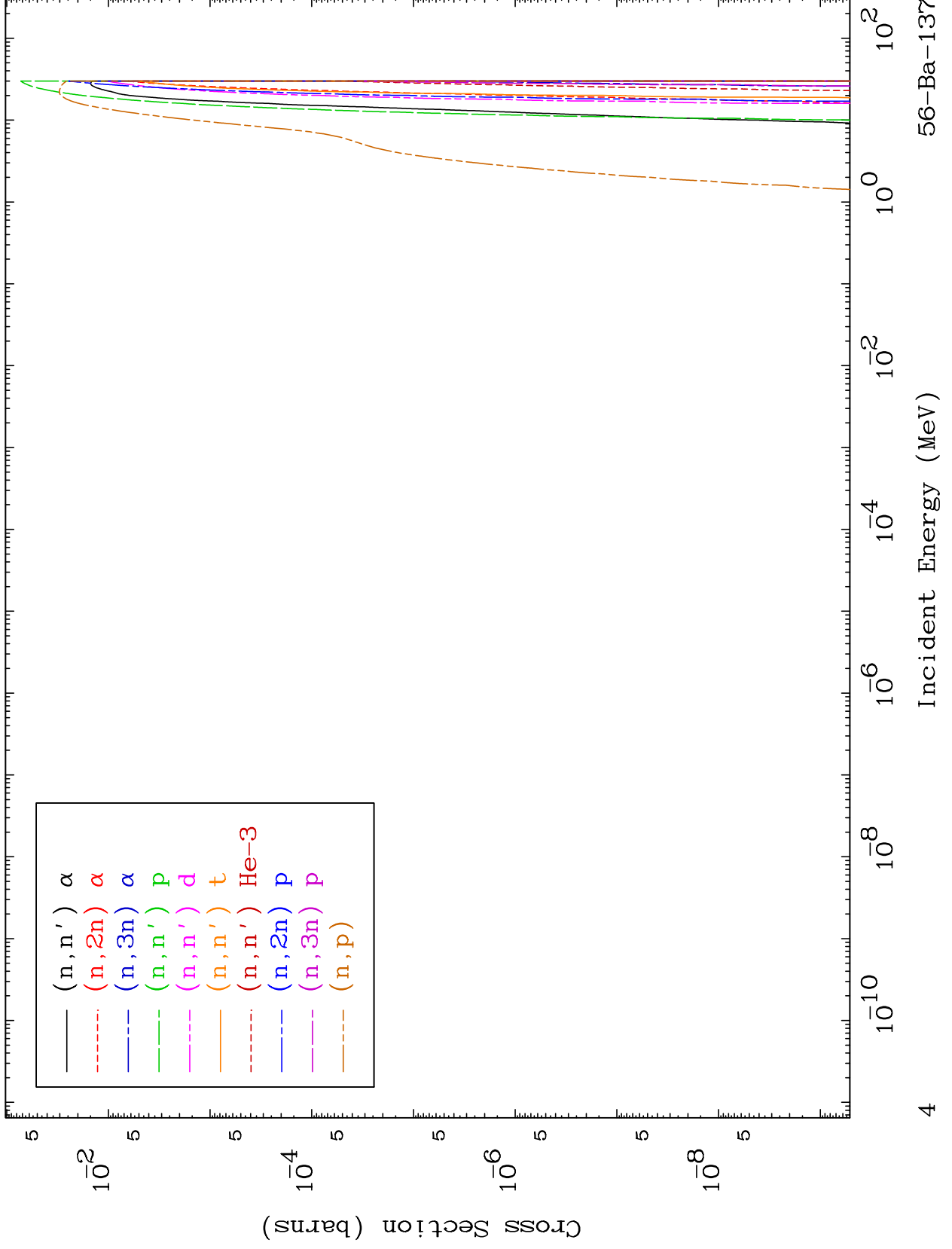
56-Ba-137



MAT 5647

Charged Particle  
293 Kelvin Cross Sections

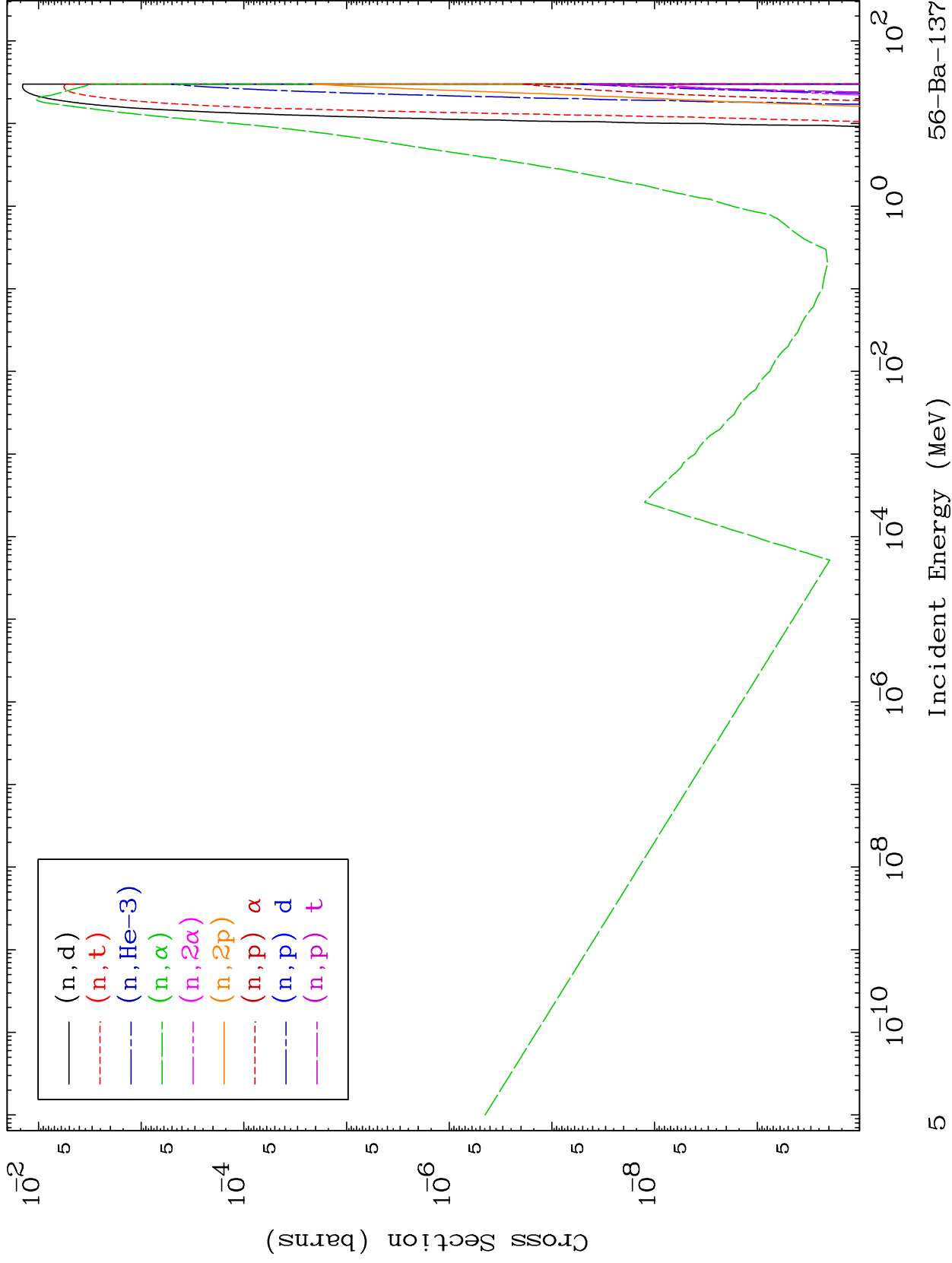
56-Ba-137



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Charged Particle  
293 Kelvin Cross Sections

56-Ba-137

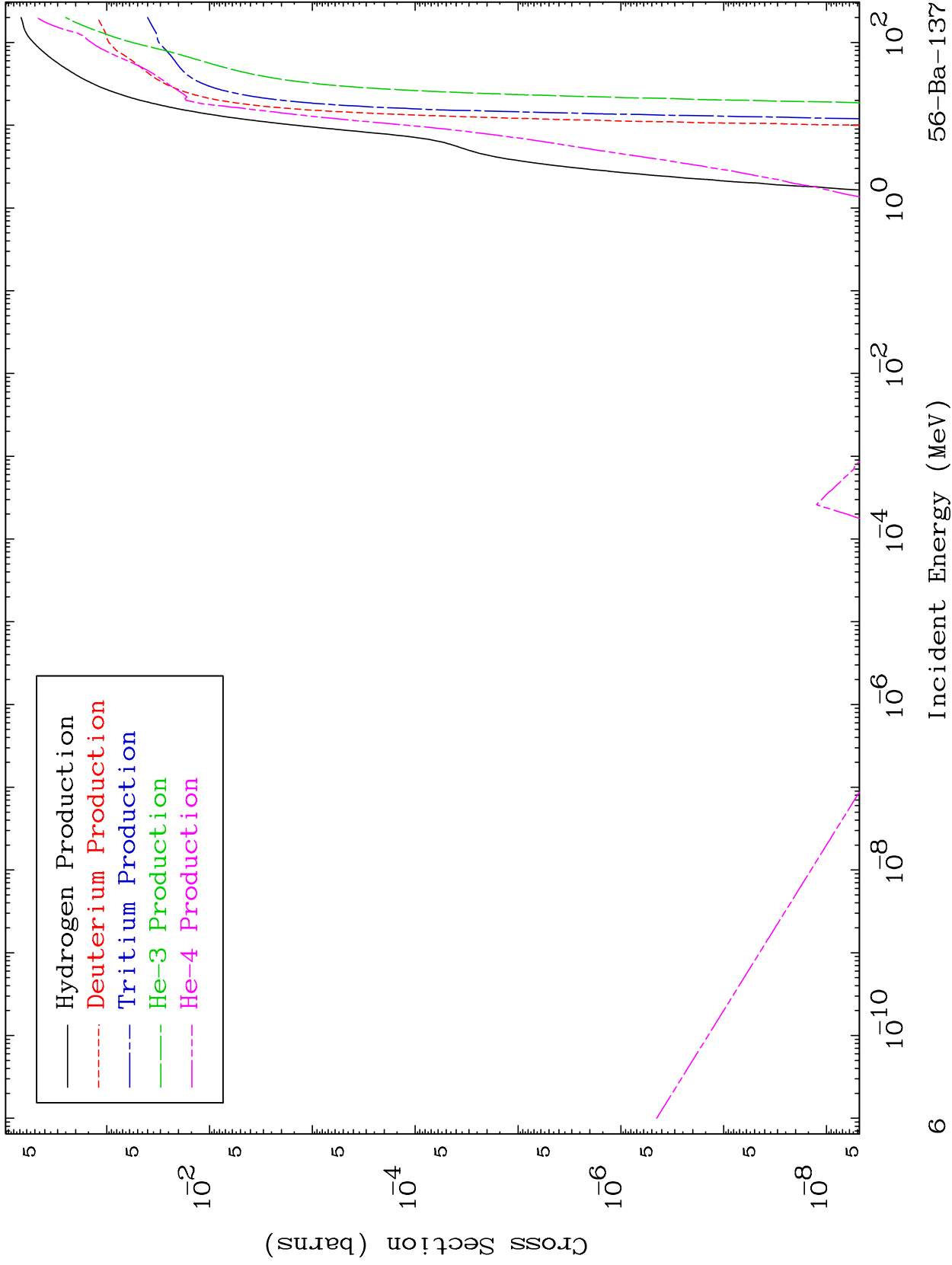


5

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Particle Production  
293 Kelvin Cross Sections

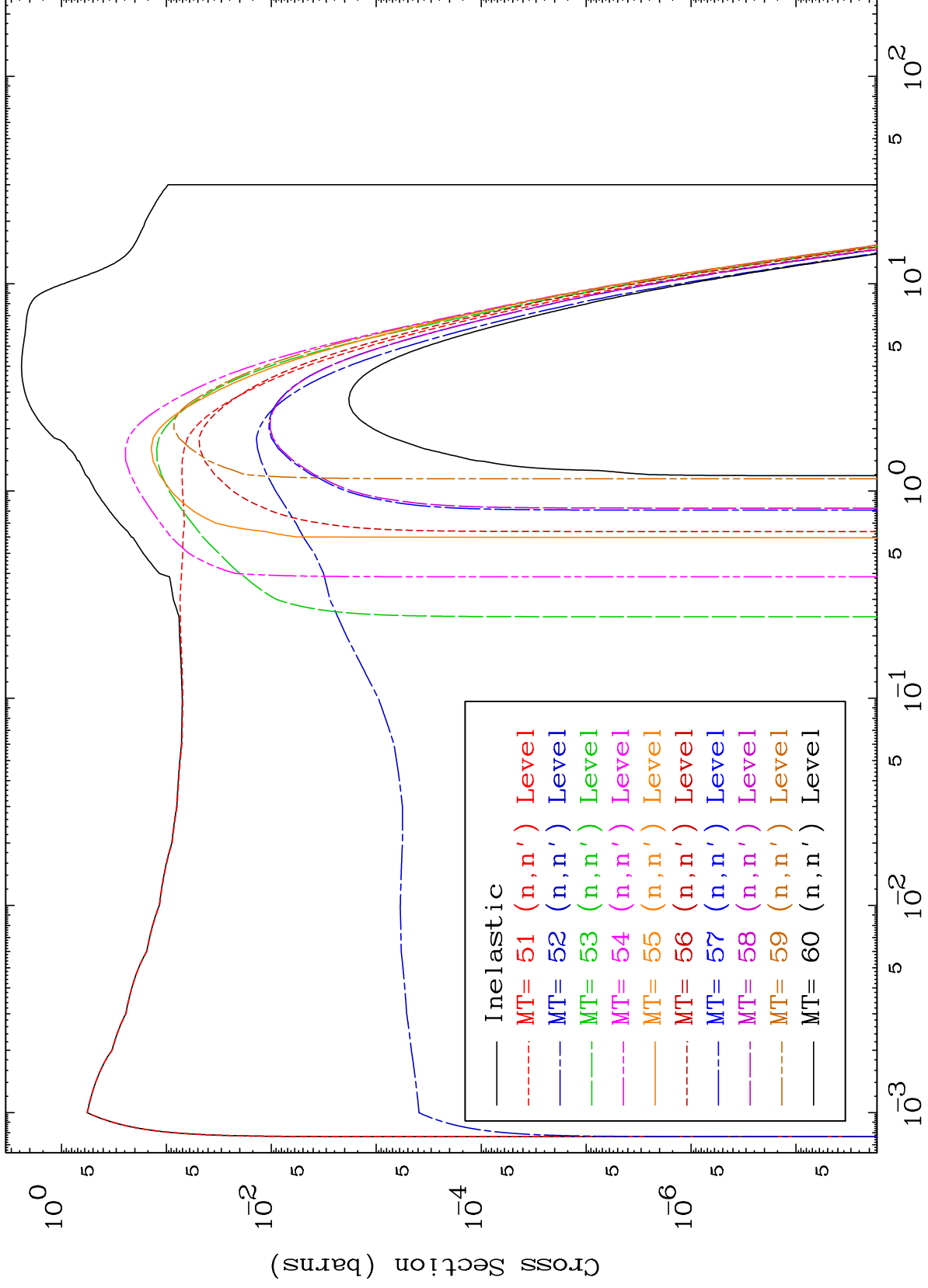
56-Ba-137



MAT 5647

(n,n') Level  
293 Kelvin Cross Sections

56-Ba-137

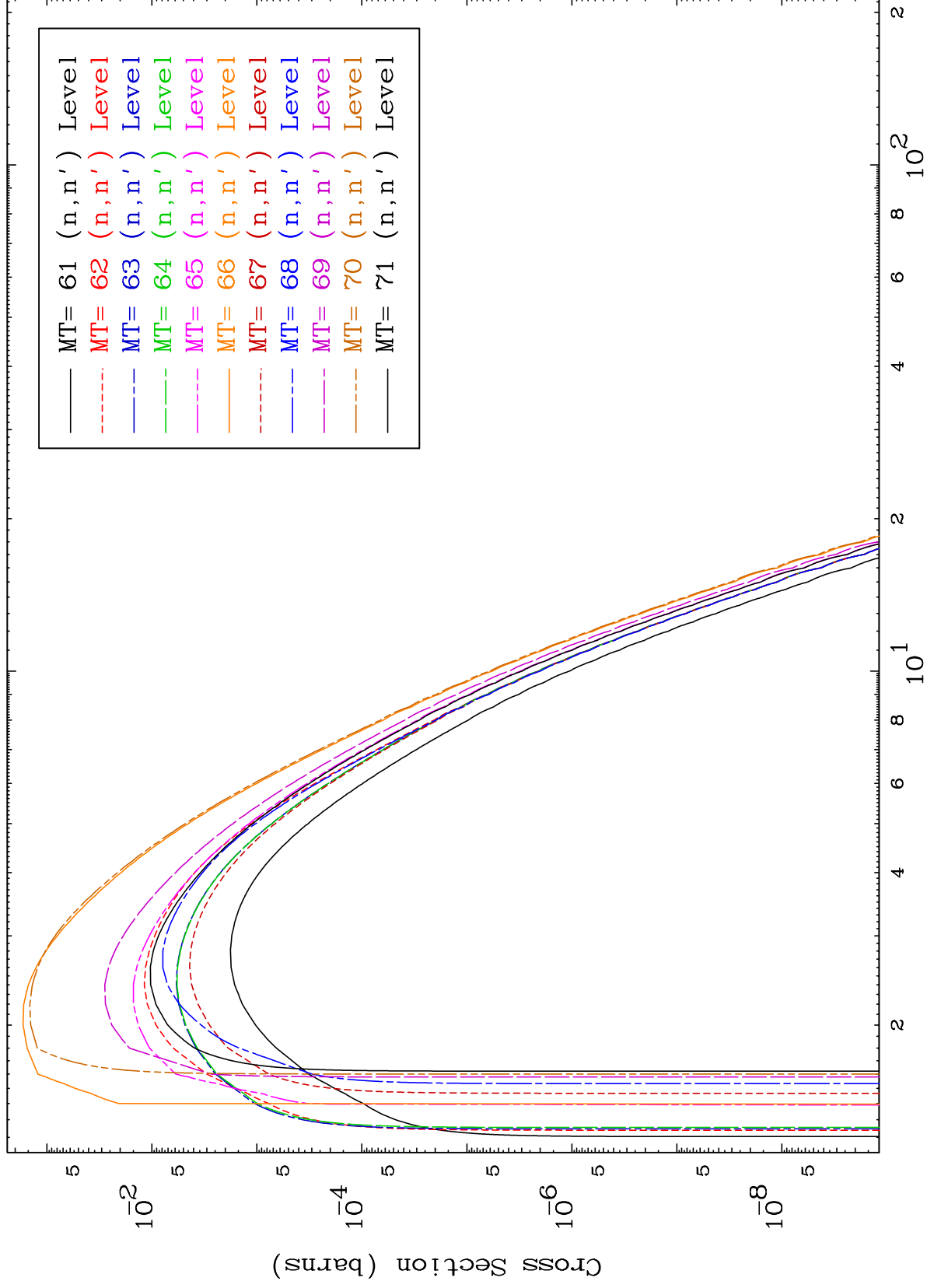


MAT 5647

(n,n') Level

56-Ba-137

293 Kelvin Cross Sections



8

Incident Energy (MeV)

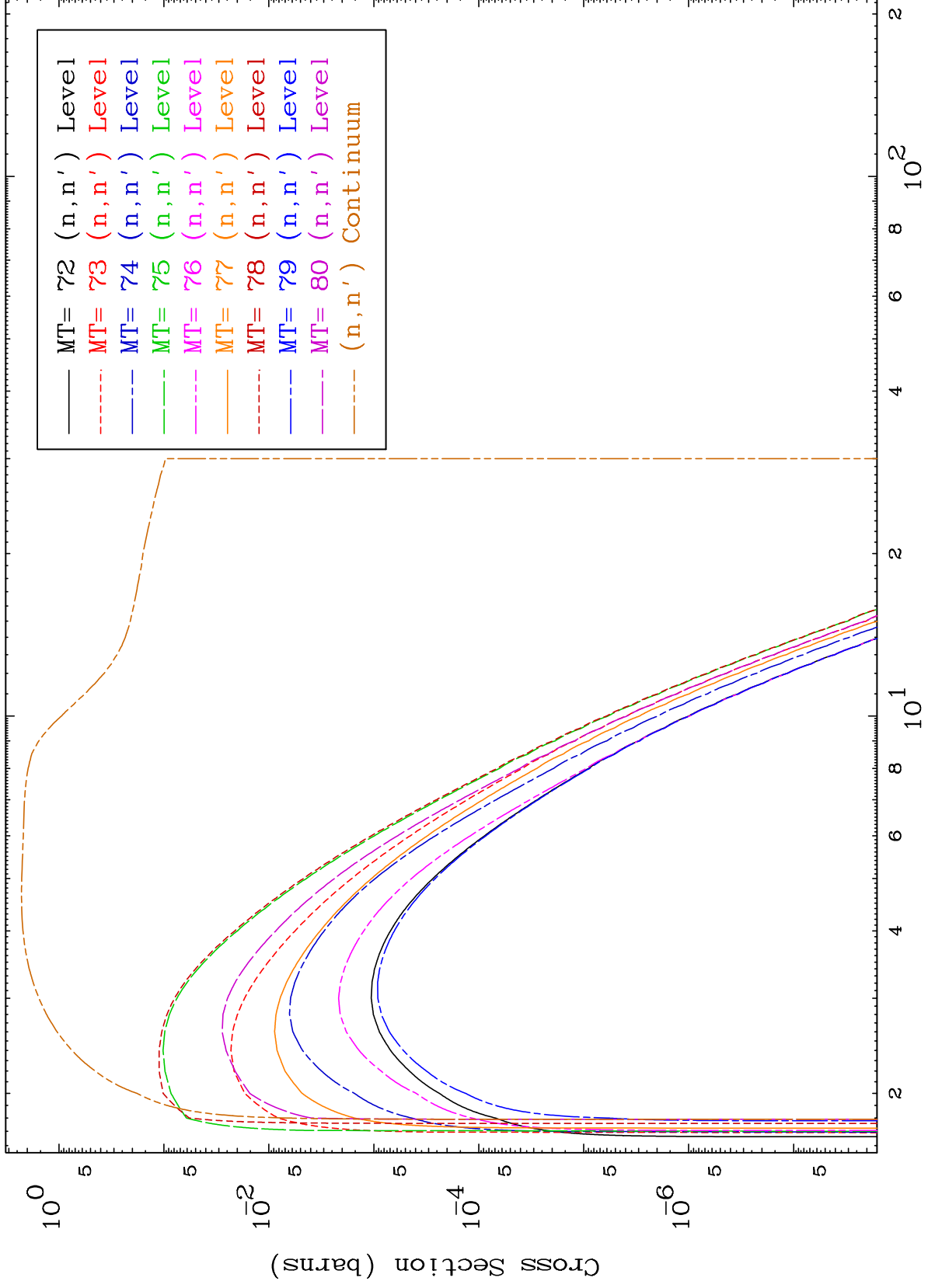
56-Ba-137

MAT 5647

(n,n') Level

56-Ba-137

293 Kelvin Cross Sections



9

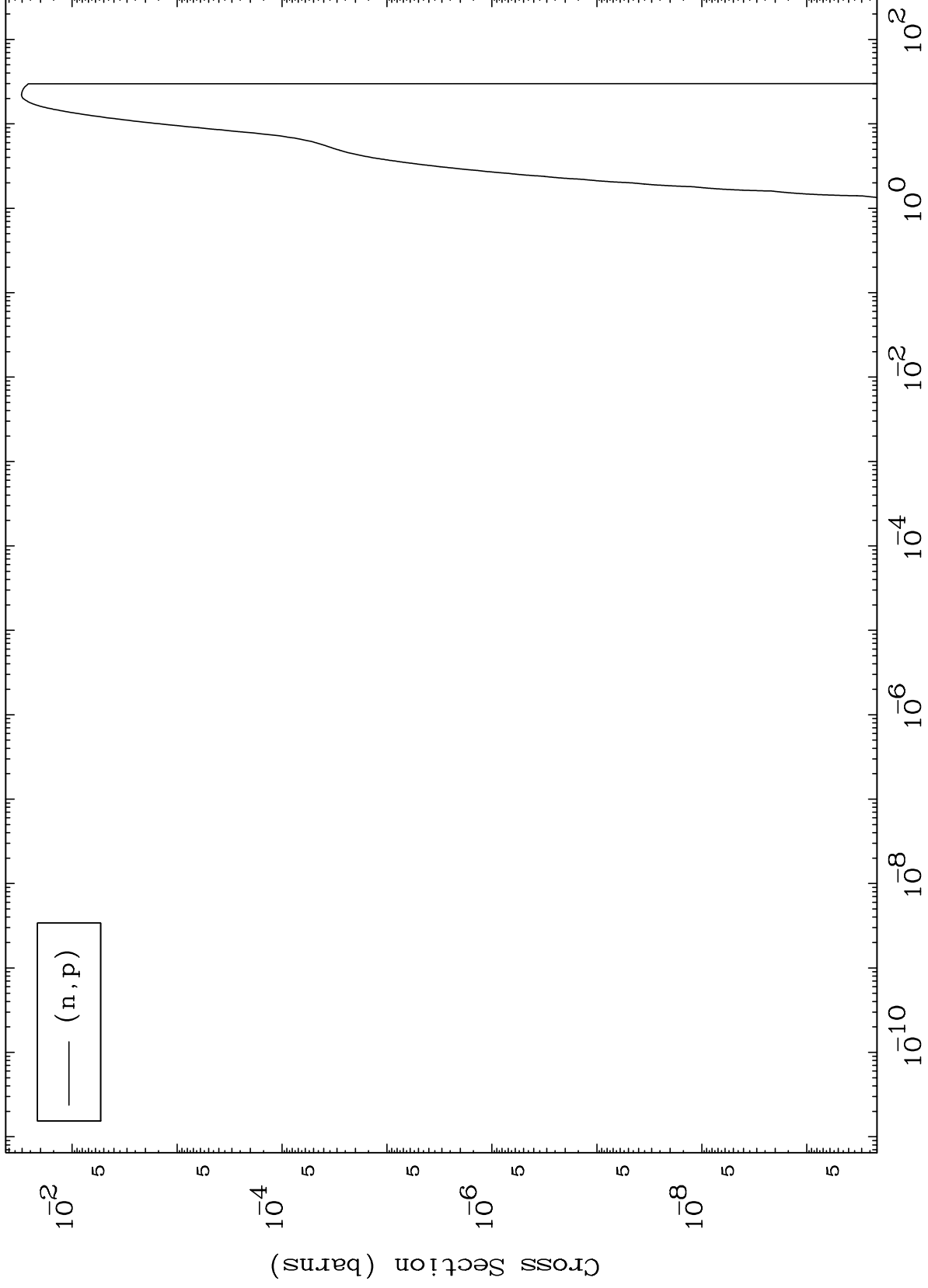
Incident Energy (MeV)

56-Ba-137

MAT 5647

(n,p) Levels  
293 Kelvin Cross Sections

56-Ba-137



10

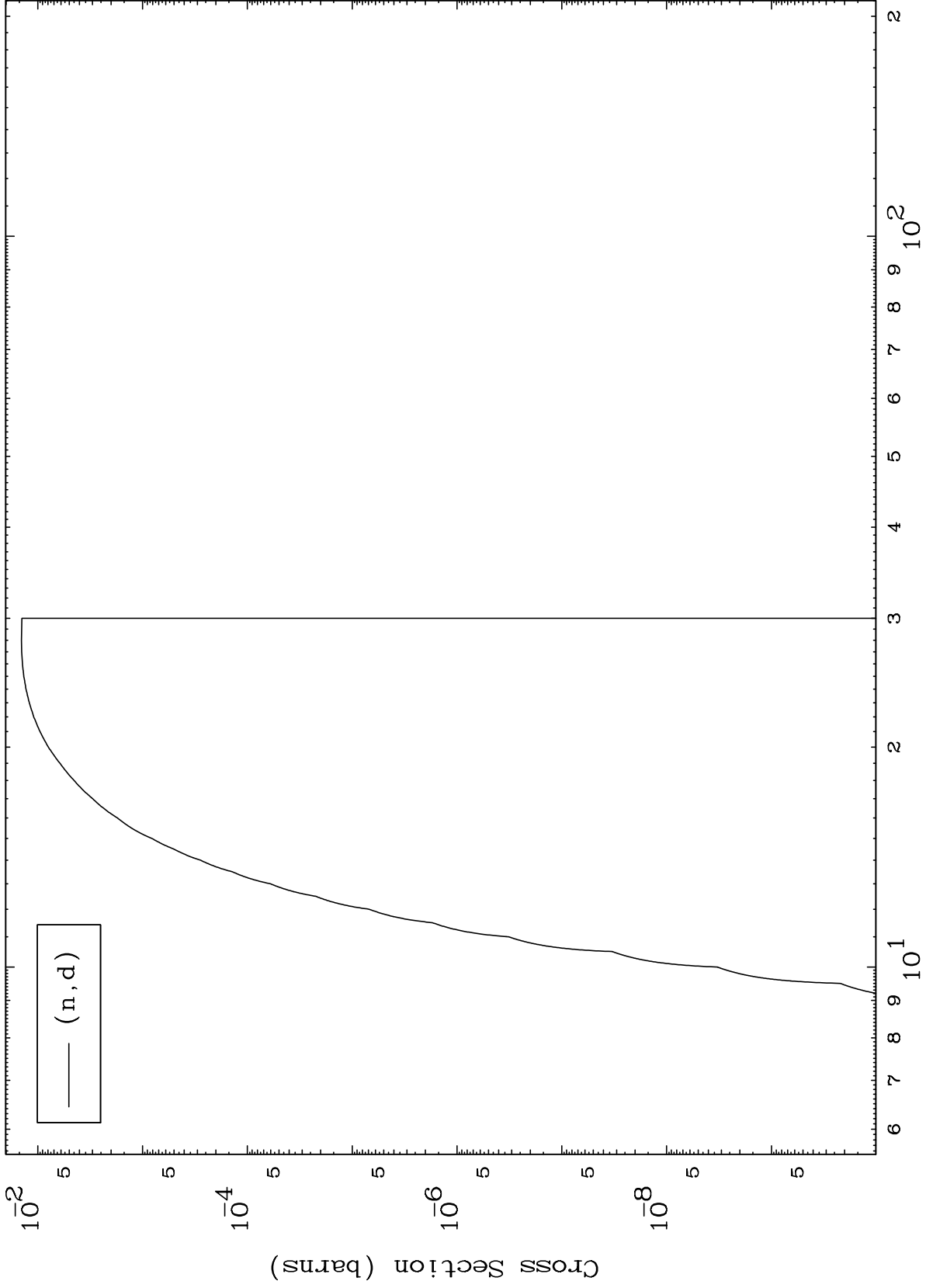
Incident Energy (MeV)

56-Ba-137

MAT 5647

(n,d) Levels  
293 Kelvin Cross Sections

56-Ba-137



11

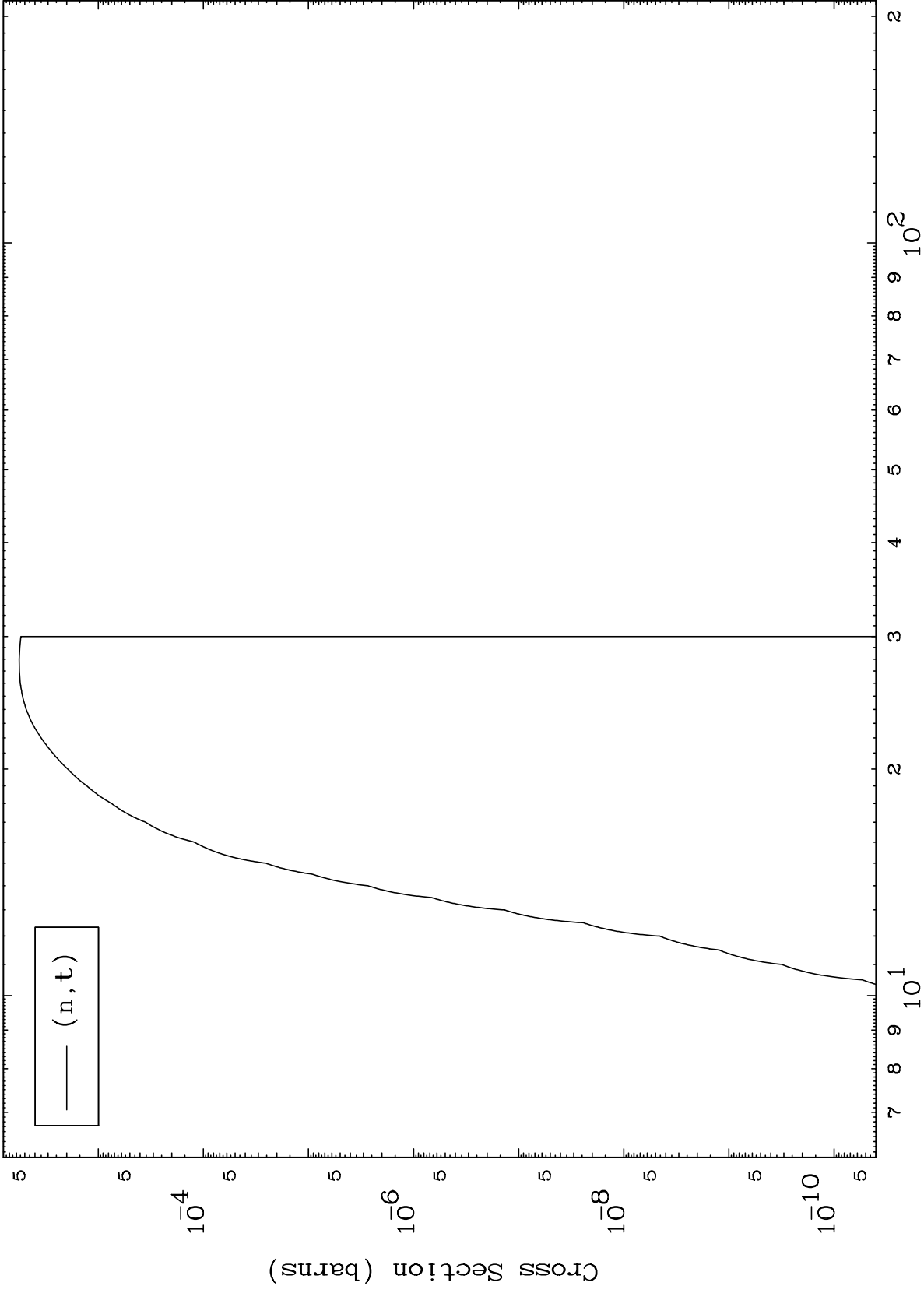
Incident Energy (MeV)

56-Ba-137

MAT 5647

(n, t) Levels  
293 Kelvin Cross Sections

56-Ba-137



12

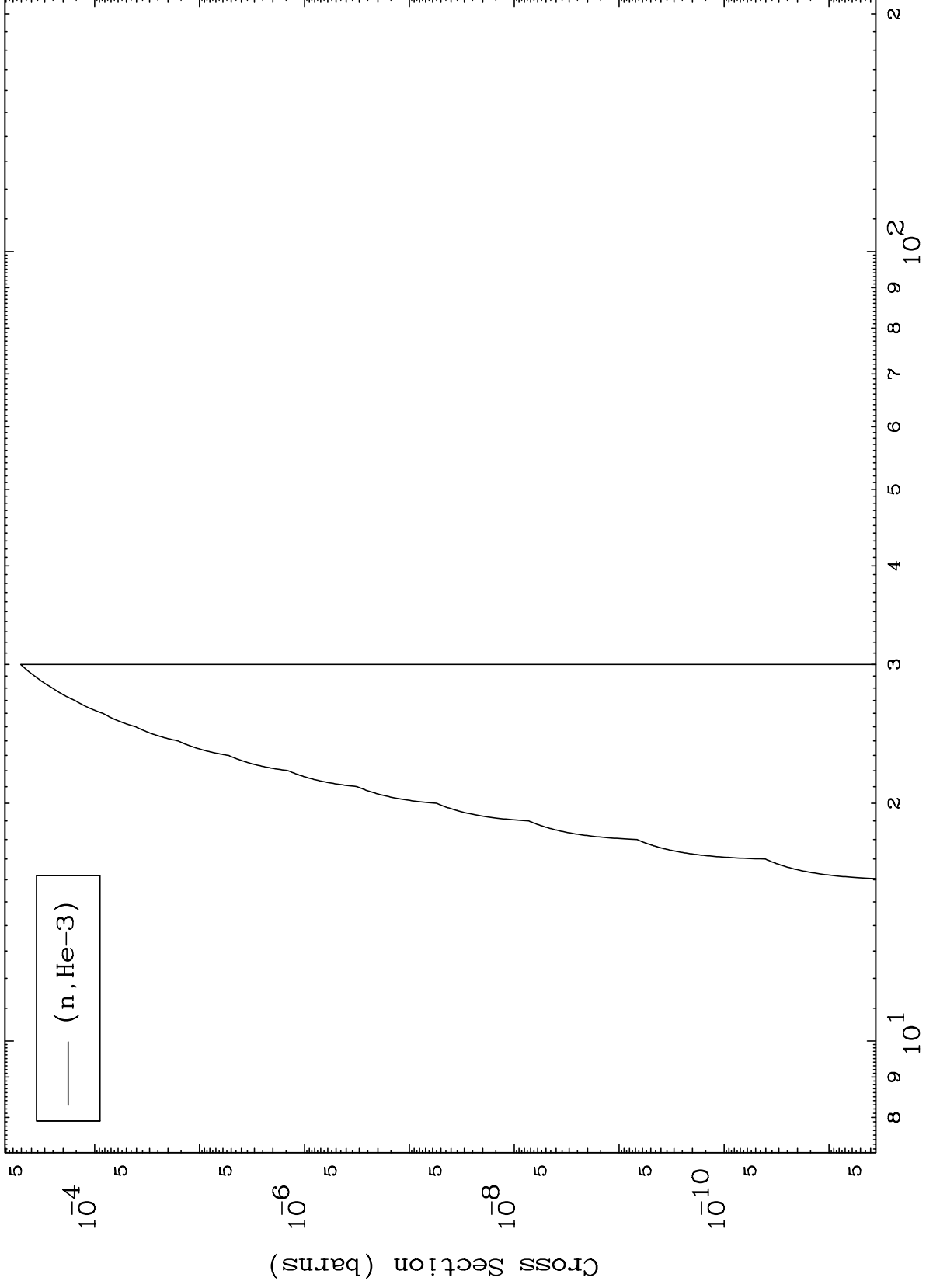
Incident Energy (MeV)

56-Ba-137

MAT 5647

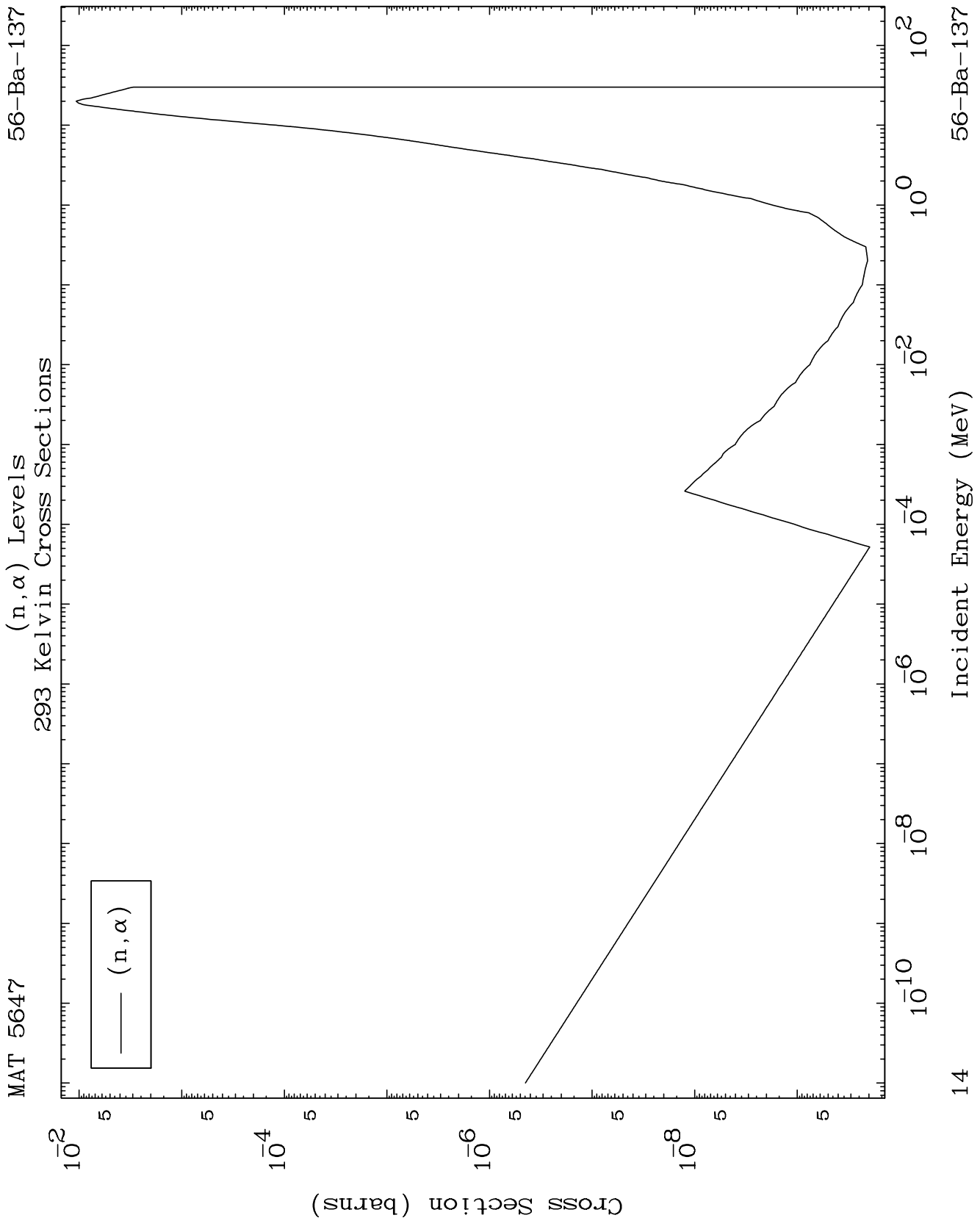
(n,He3) Levels  
293 Kelvin Cross Sections

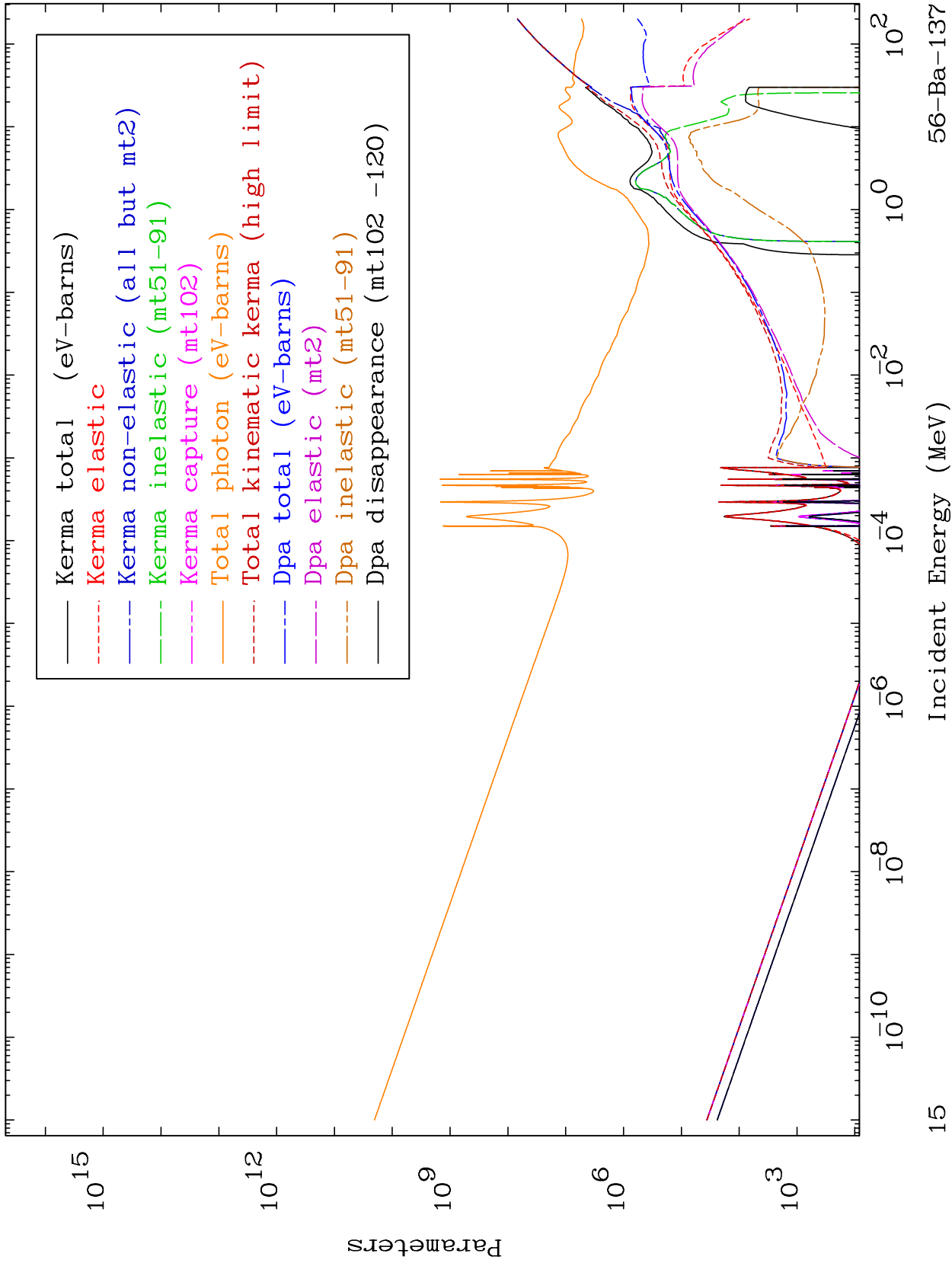
56-Ba-137



56-Ba-137

13



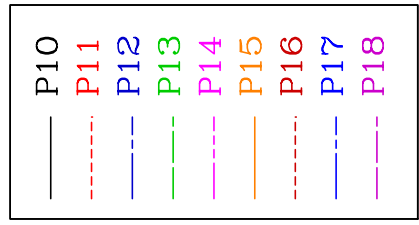




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Elastic Legendre Coefficients

56-Ba-137

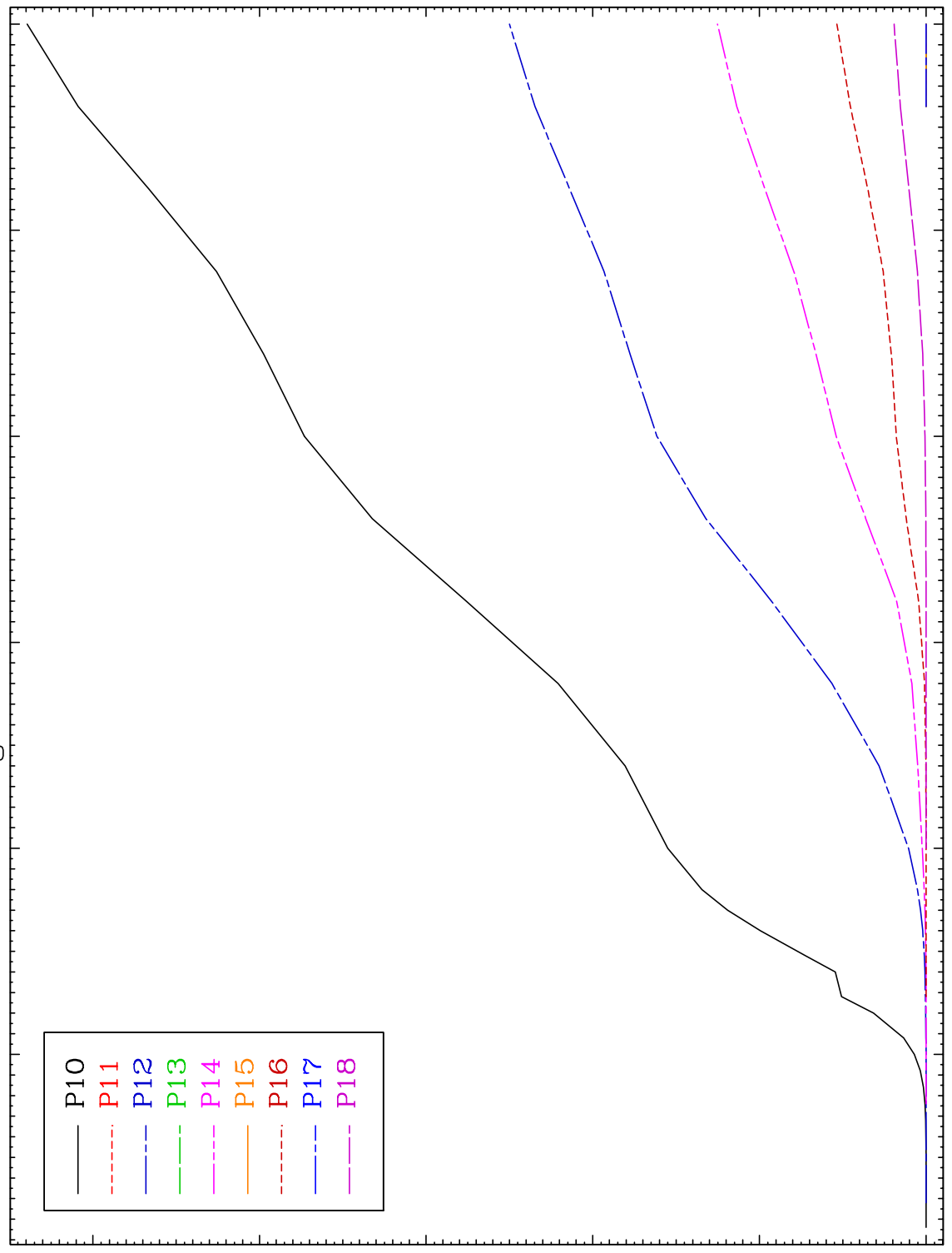


Legendre (CM)  $\times 10^{-4}$

17

Incident Energy (MeV)

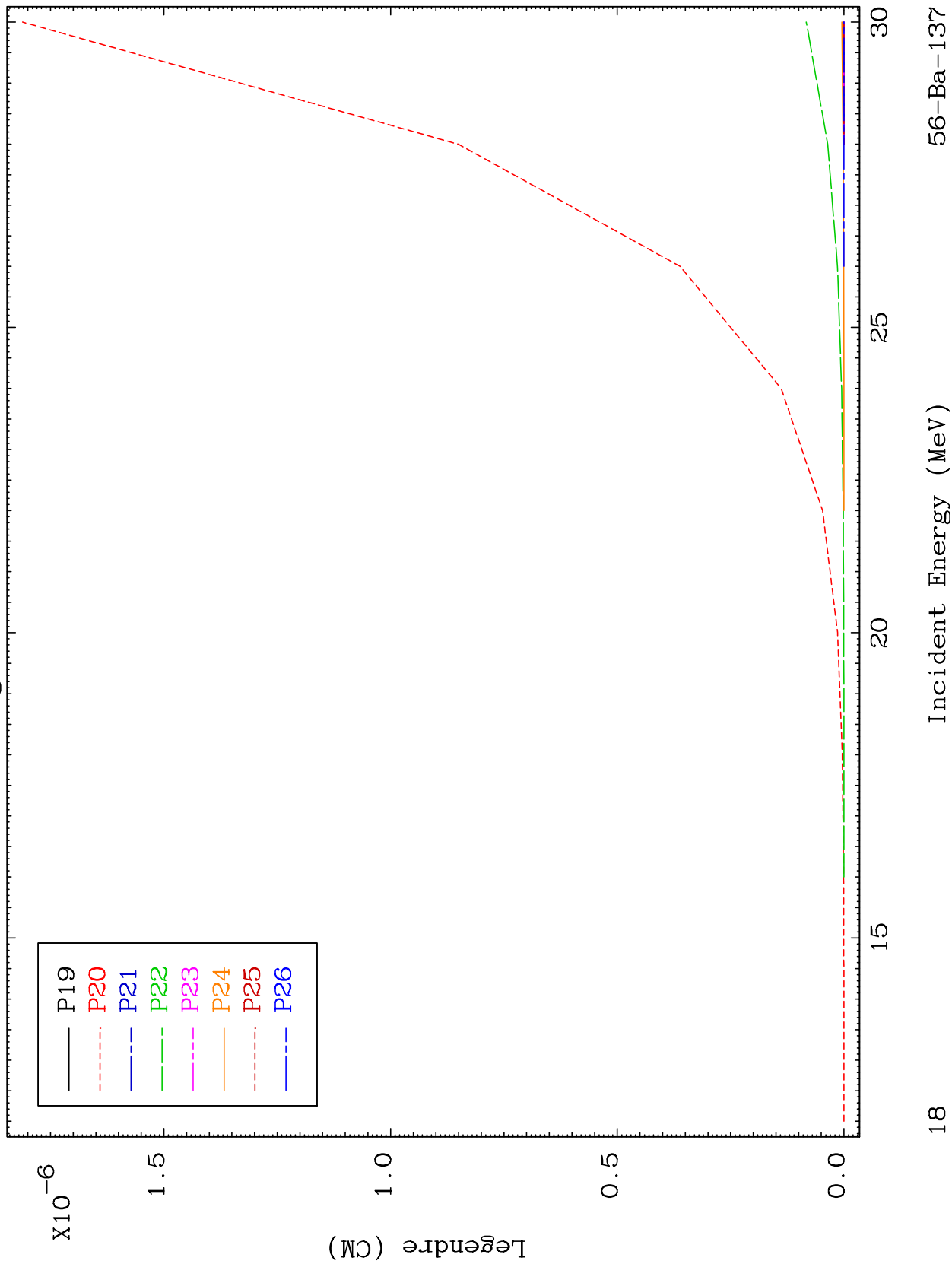
56-Ba-137



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Elastic Legendre Coefficients

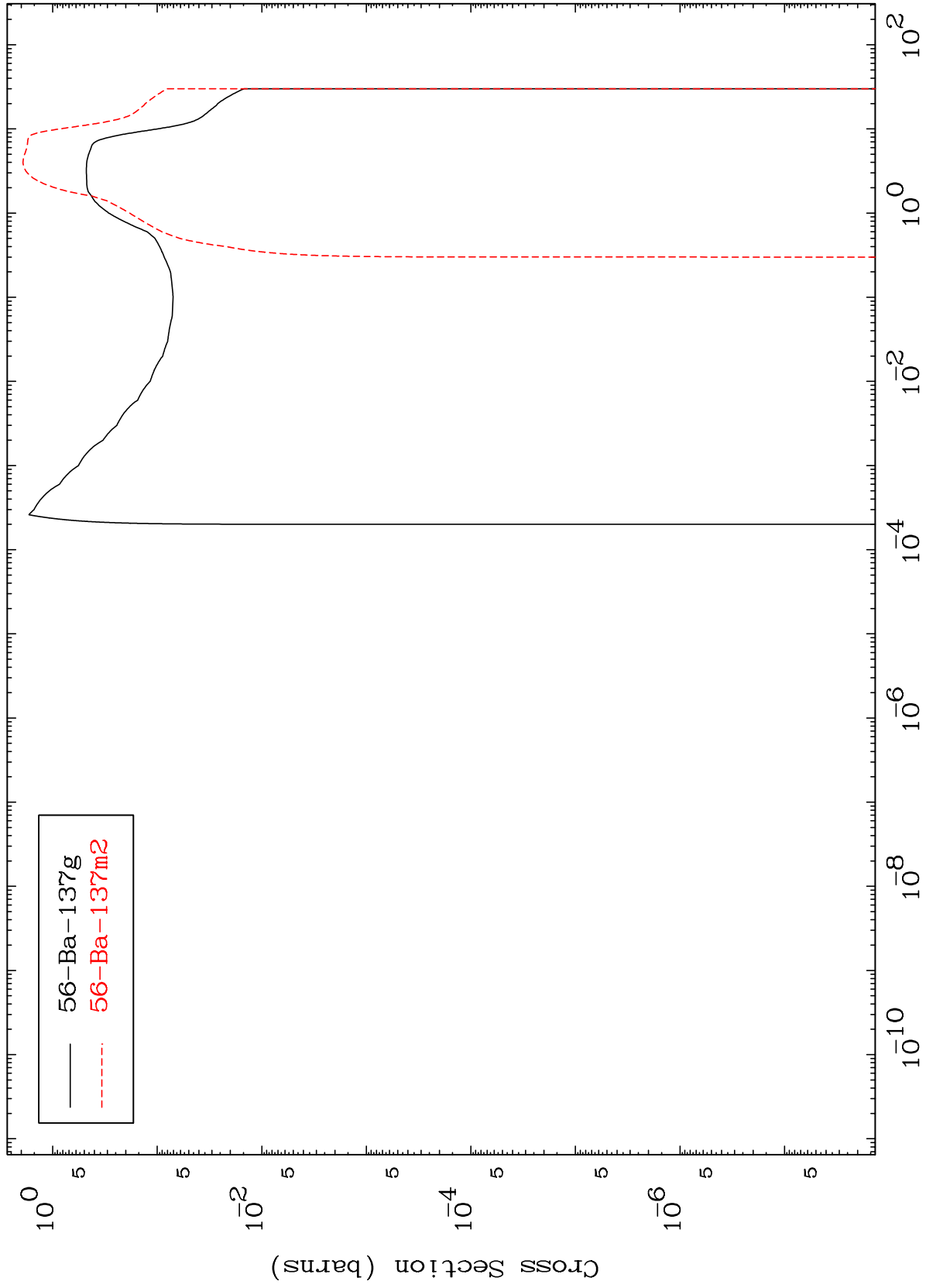
56-Ba-137



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56-Ba-137

Inelastic  
Radionuclide Production Cross Section

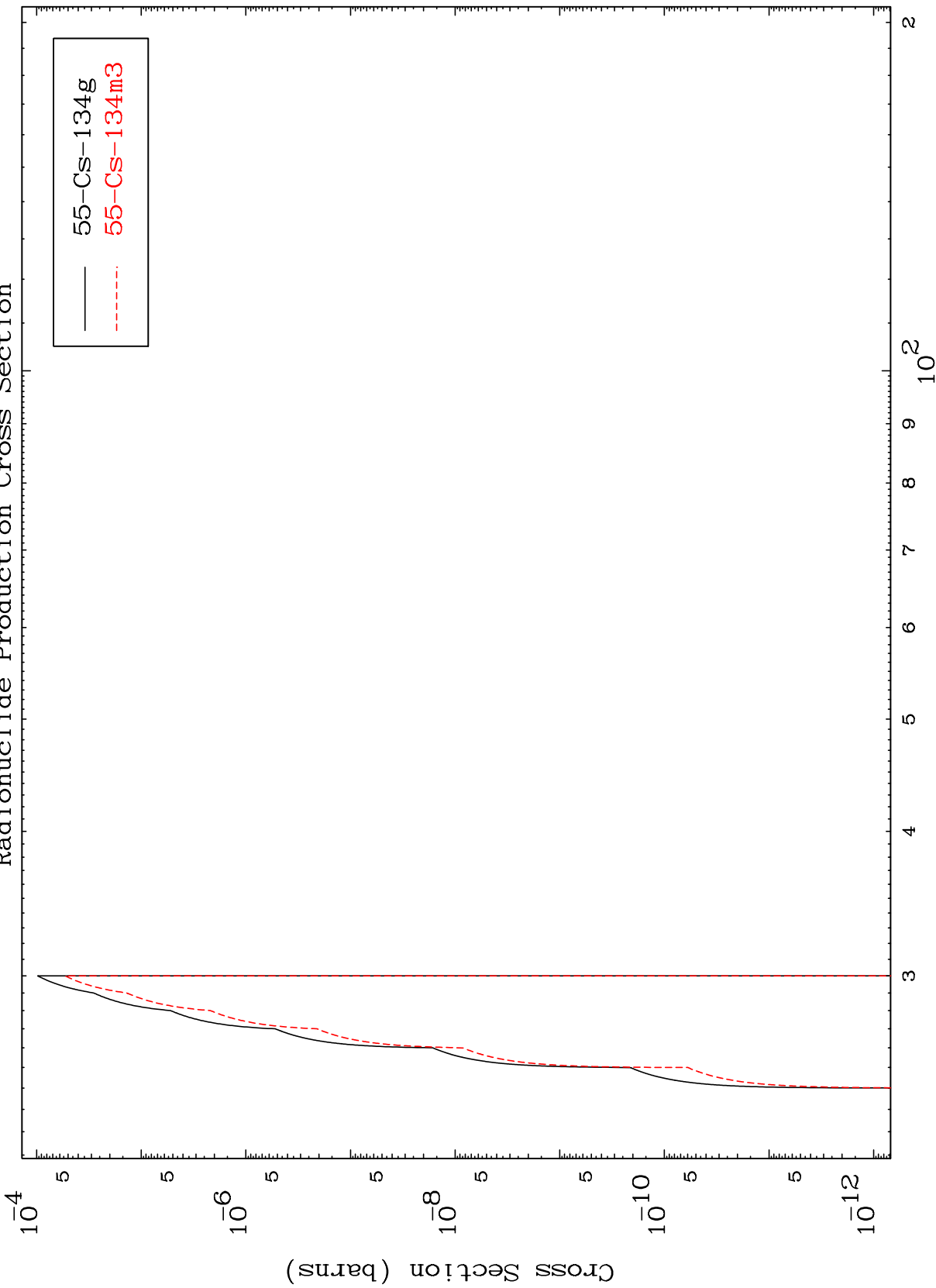


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(n,2n) d

56-Ba-137

Radionuclide Production Cross Section



20

Incident Energy (MeV)

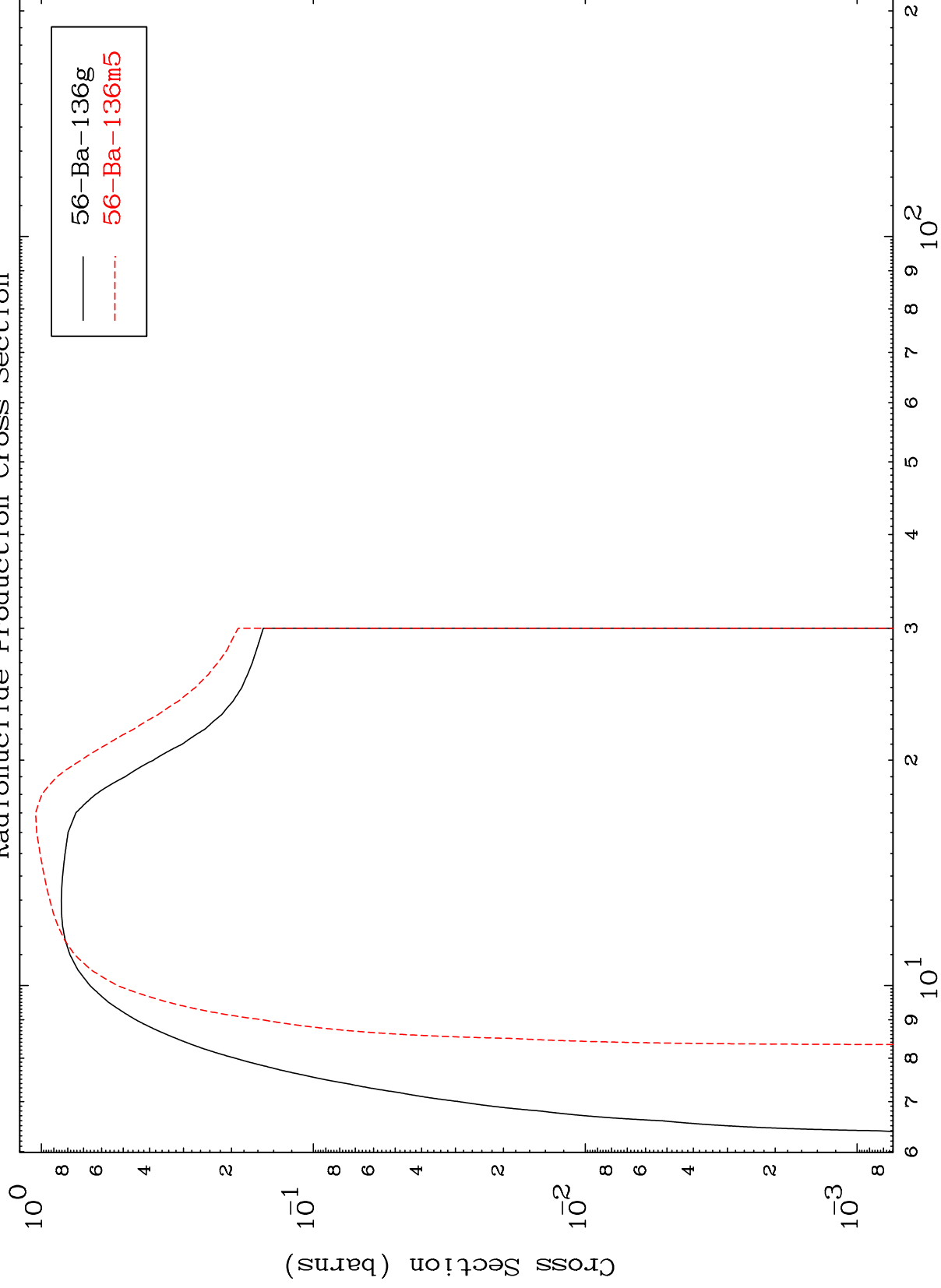
56-Ba-137

MAT 5647

(n,2n)

56-Ba-137

Radionuclide Production Cross Section



21

Incident Energy (MeV)

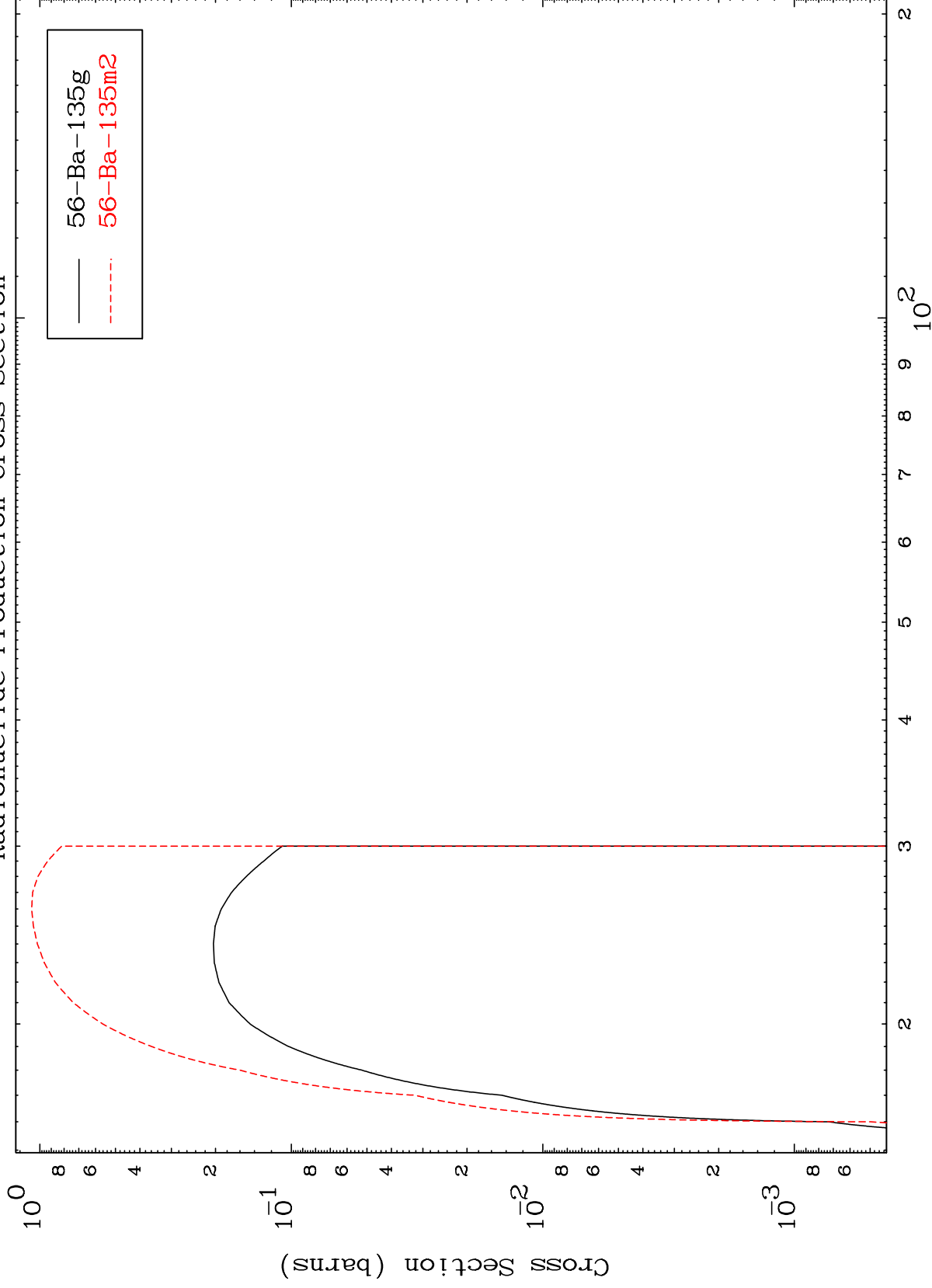
56-Ba-137

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(n,3n)

56-Ba-137

Radionuclide Production Cross Section



22

Incident Energy (MeV)

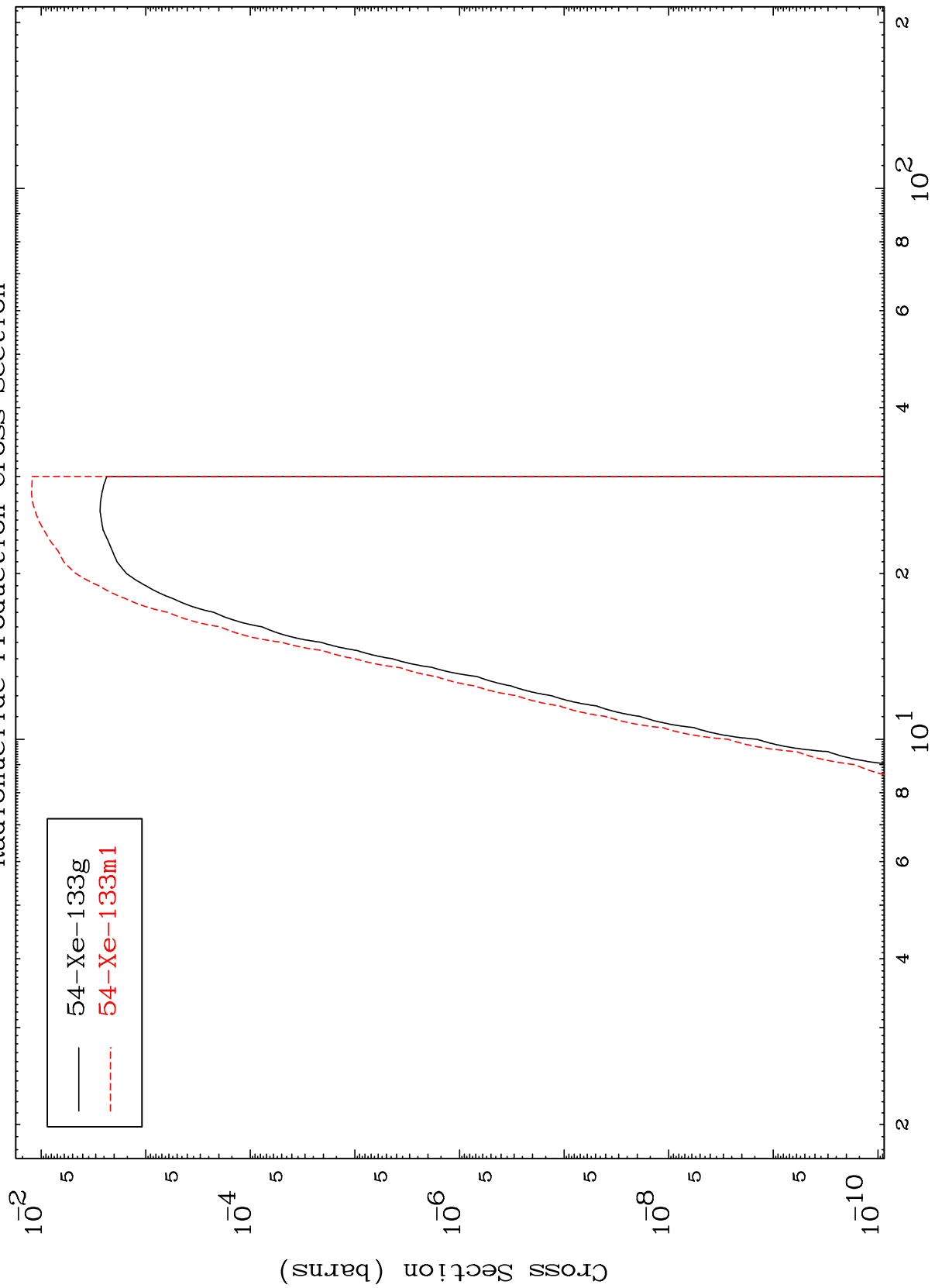
56-Ba-137

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(n,n')  $\alpha$

56-Ba-137

Radionuclide Production Cross Section



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

23

Incident Energy (MeV)

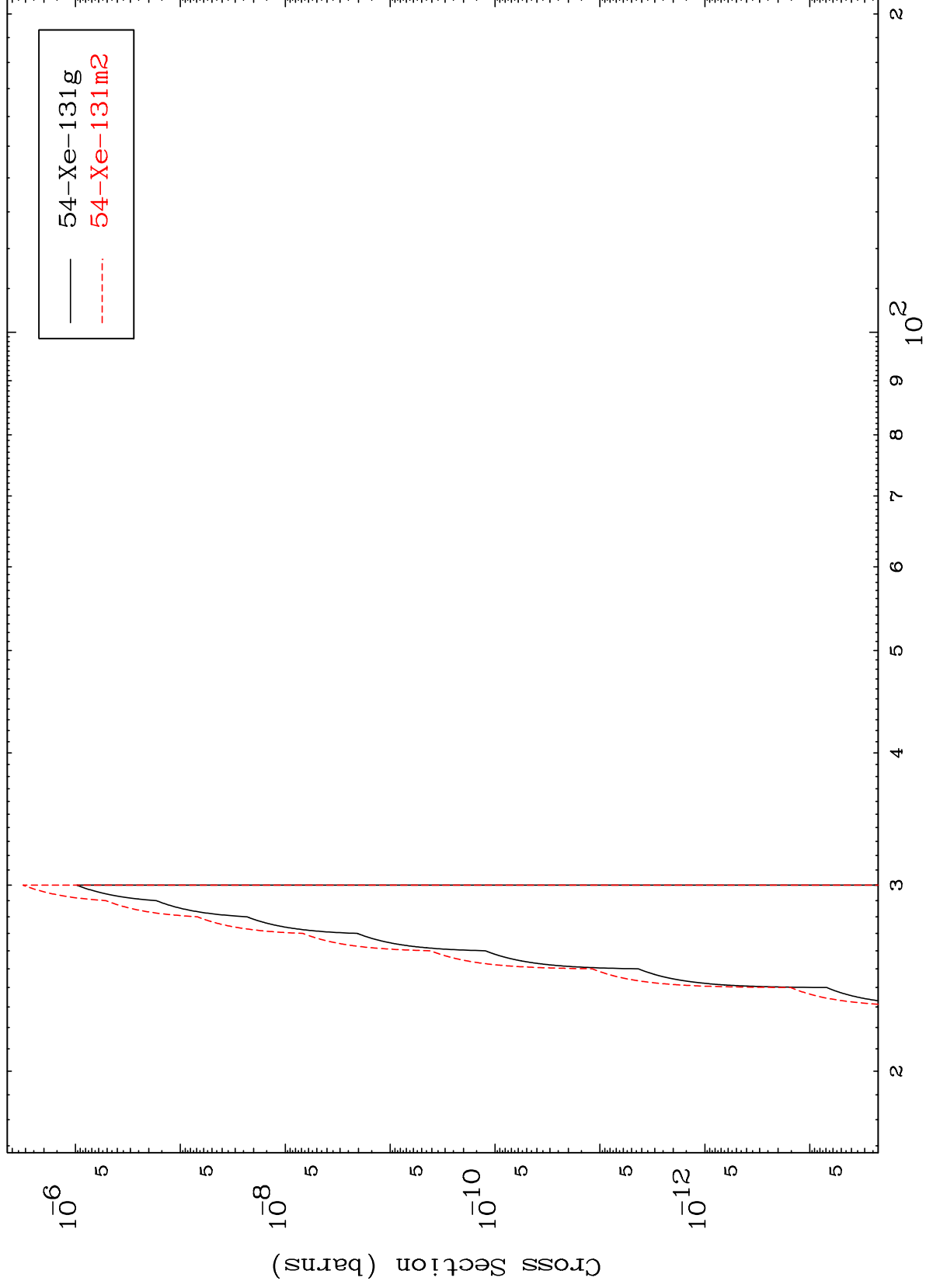
56-Ba-137

MAT 5647

(n,3n)  $\alpha$

56-Ba-137

Radionuclide Production Cross Section



24

Incident Energy (MeV)

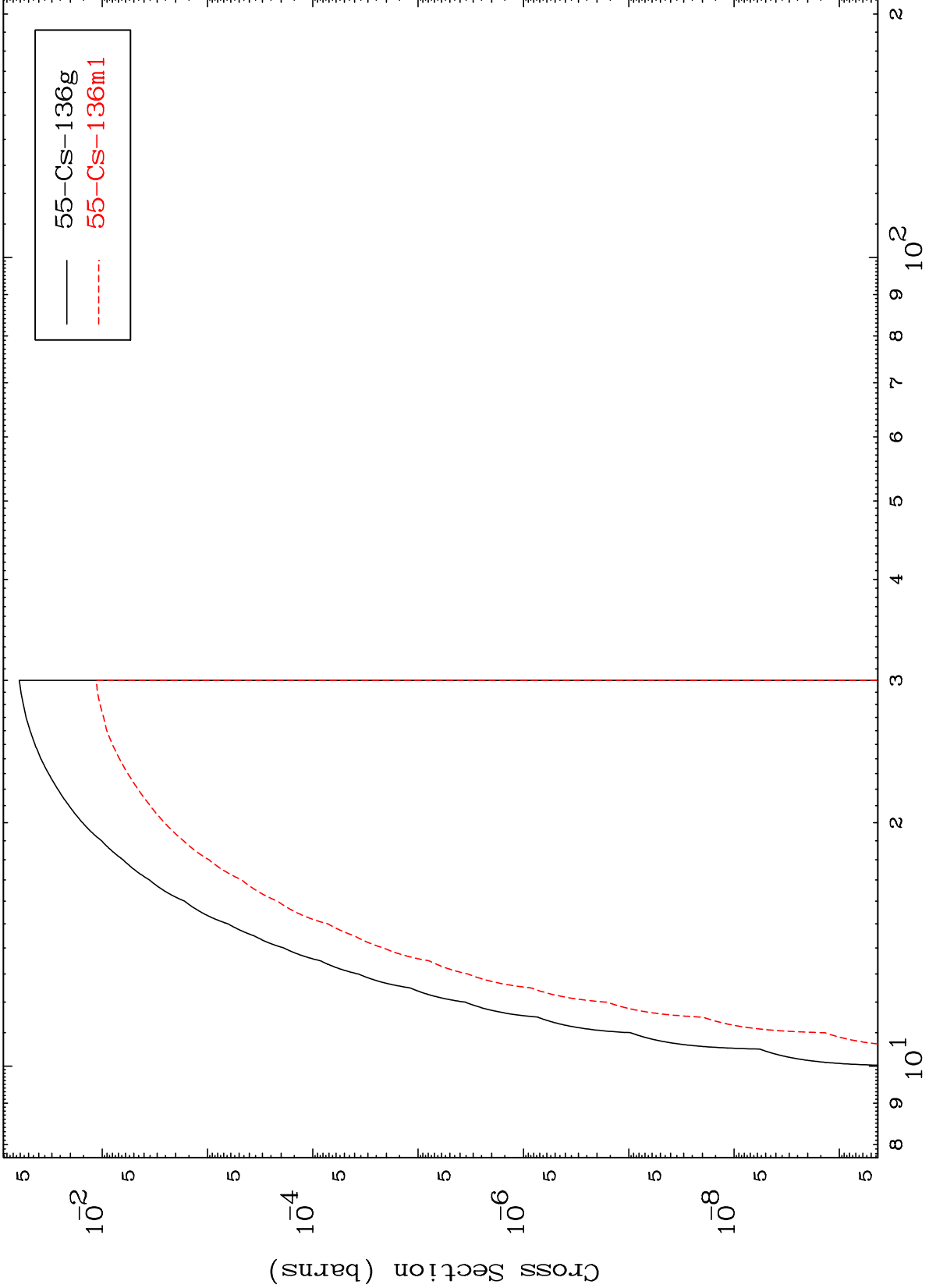
56-Ba-137

MAT 5647

(n,n') p

56-Ba-137

Radionuclide Production Cross Section

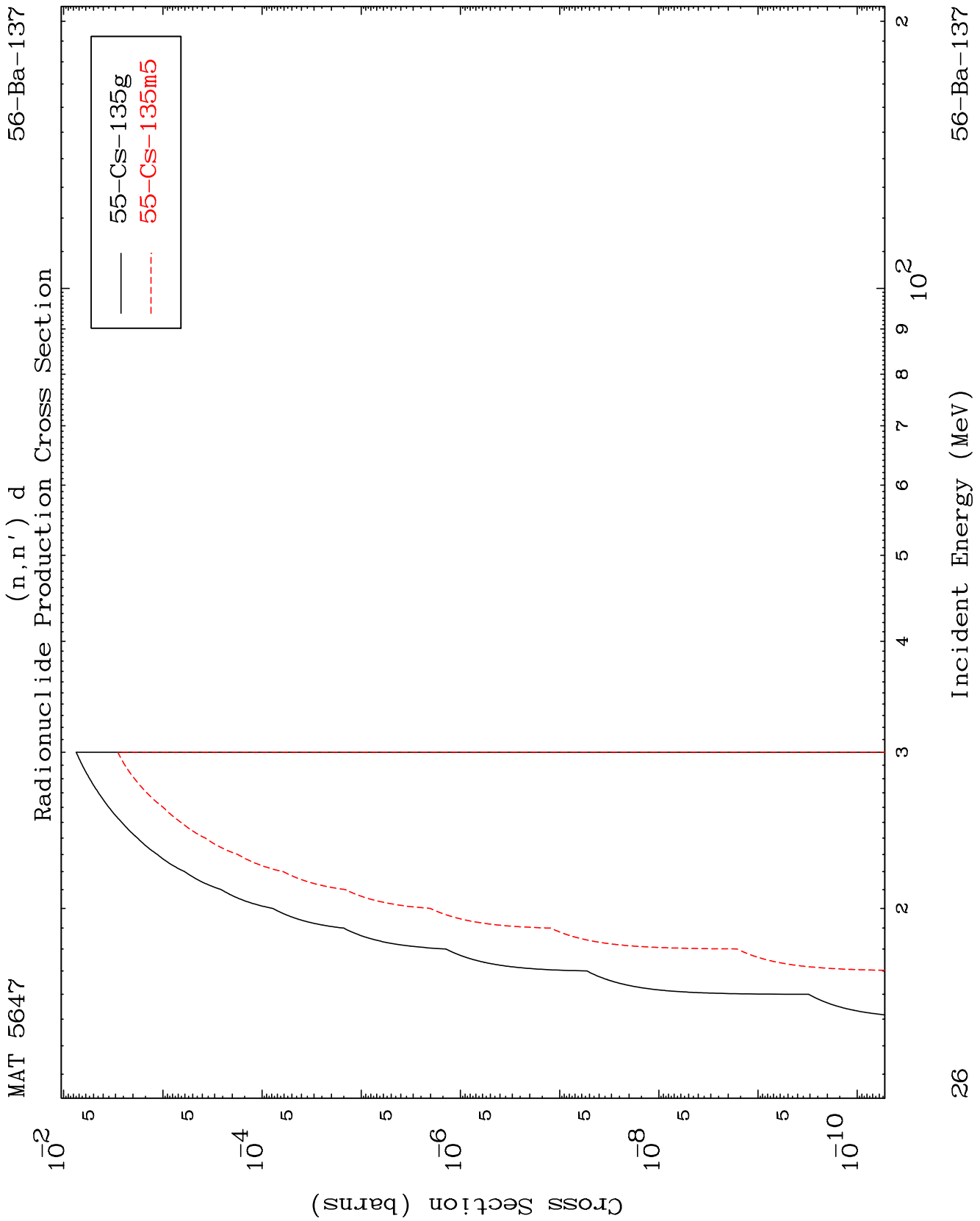


55-Cs-136g  
55-Cs-136m1

25

Incident Energy (MeV)

56-Ba-137

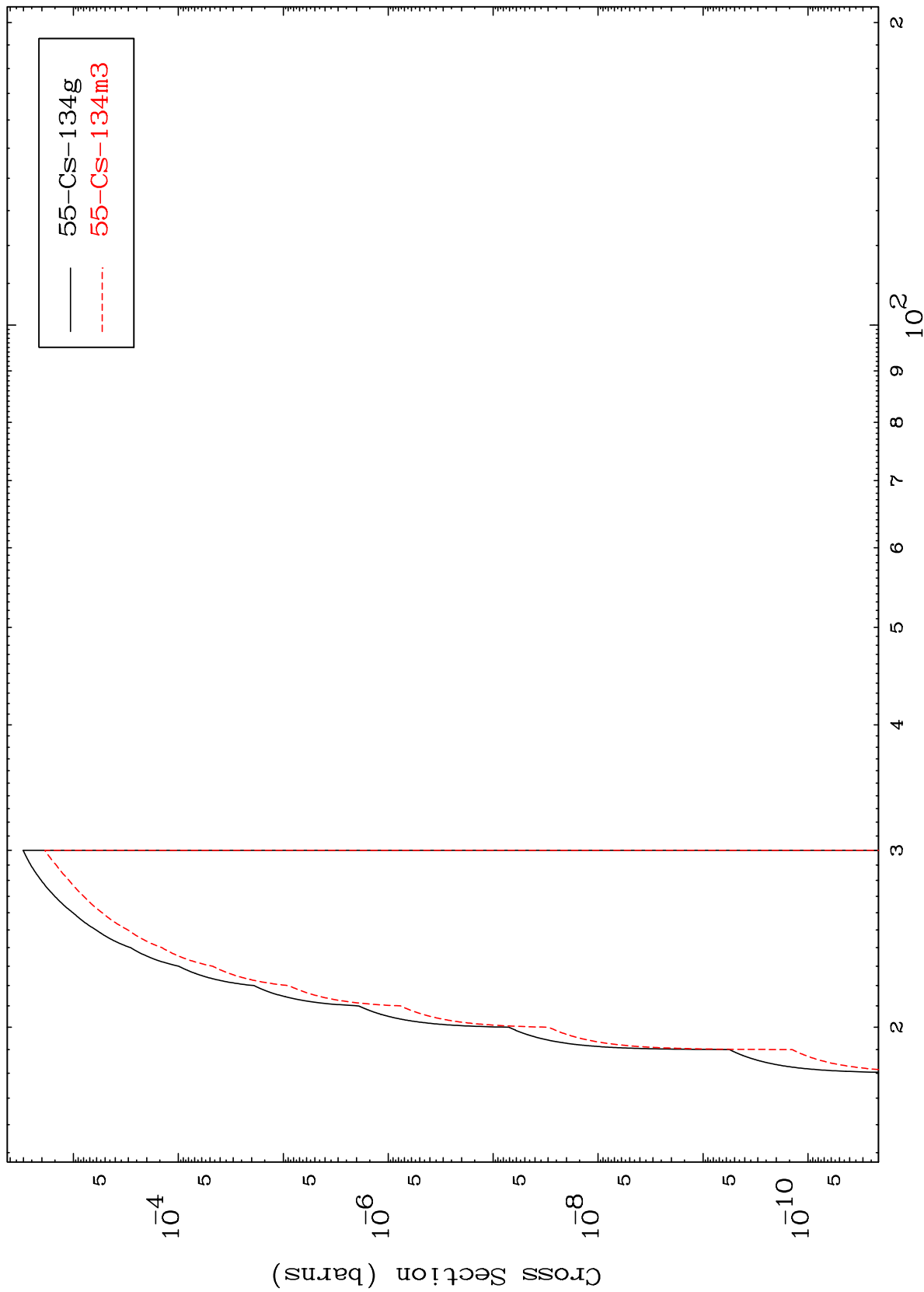


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(n,n') t

56-Ba-137

Radionuclide Production Cross Section



27

Incident Energy (MeV)

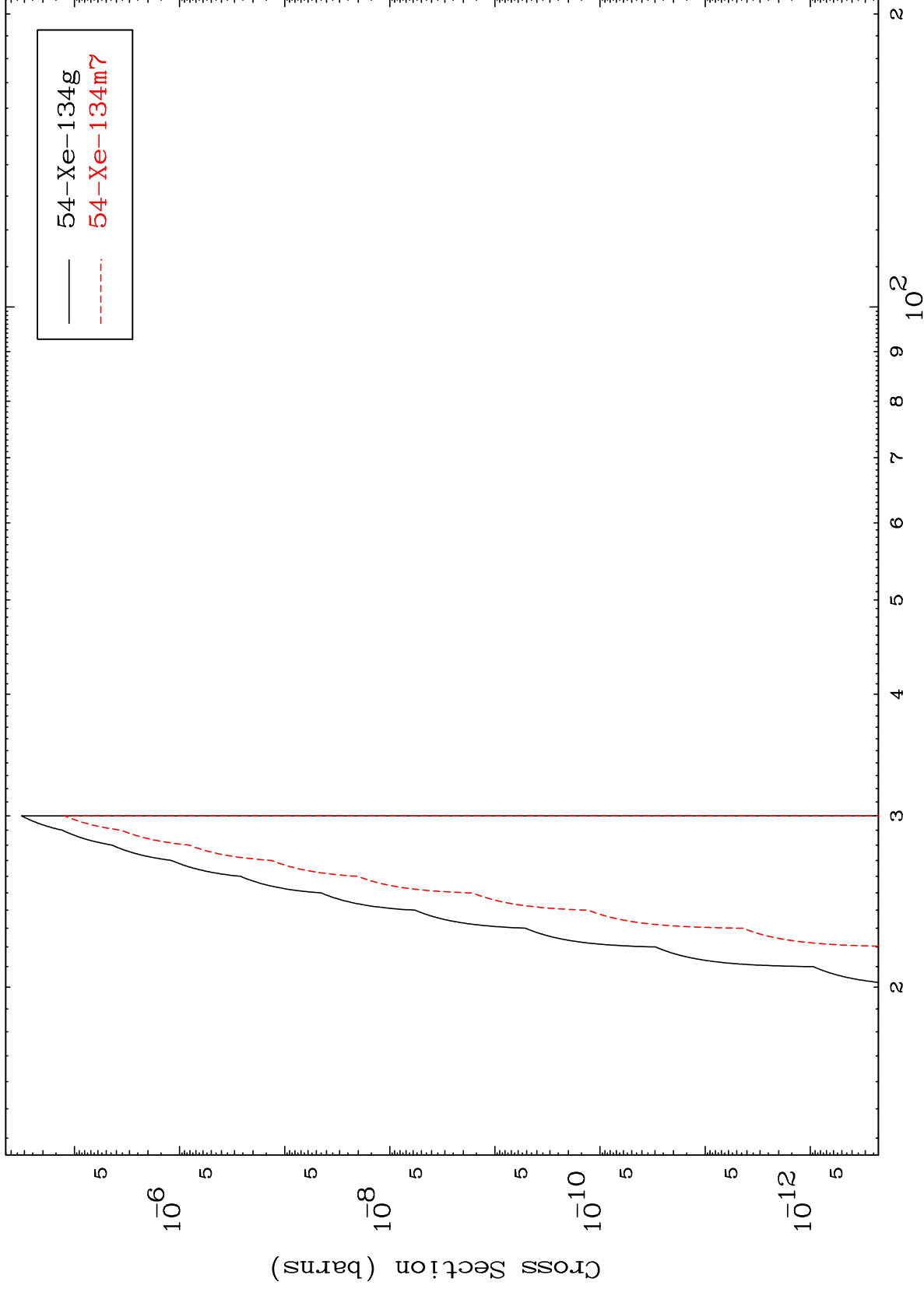
56-Ba-137

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(n,n') He-3

56-Ba-137

Radionuclide Production Cross Section



28

Incident Energy (MeV)

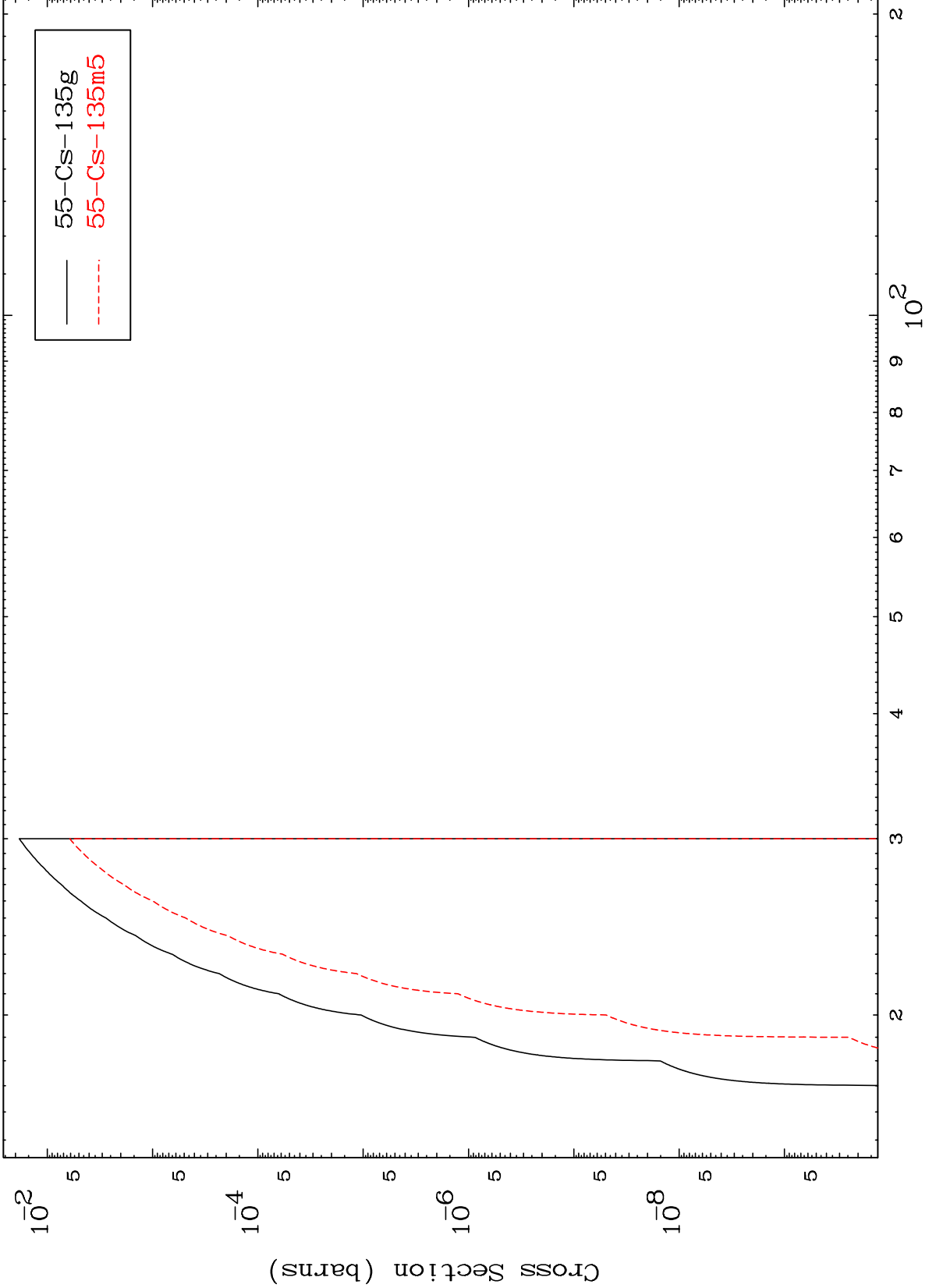
56-Ba-137

MAT 5647

(n,2n) p

56-Ba-137

Radionuclide Production Cross Section



29

Incident Energy (MeV)

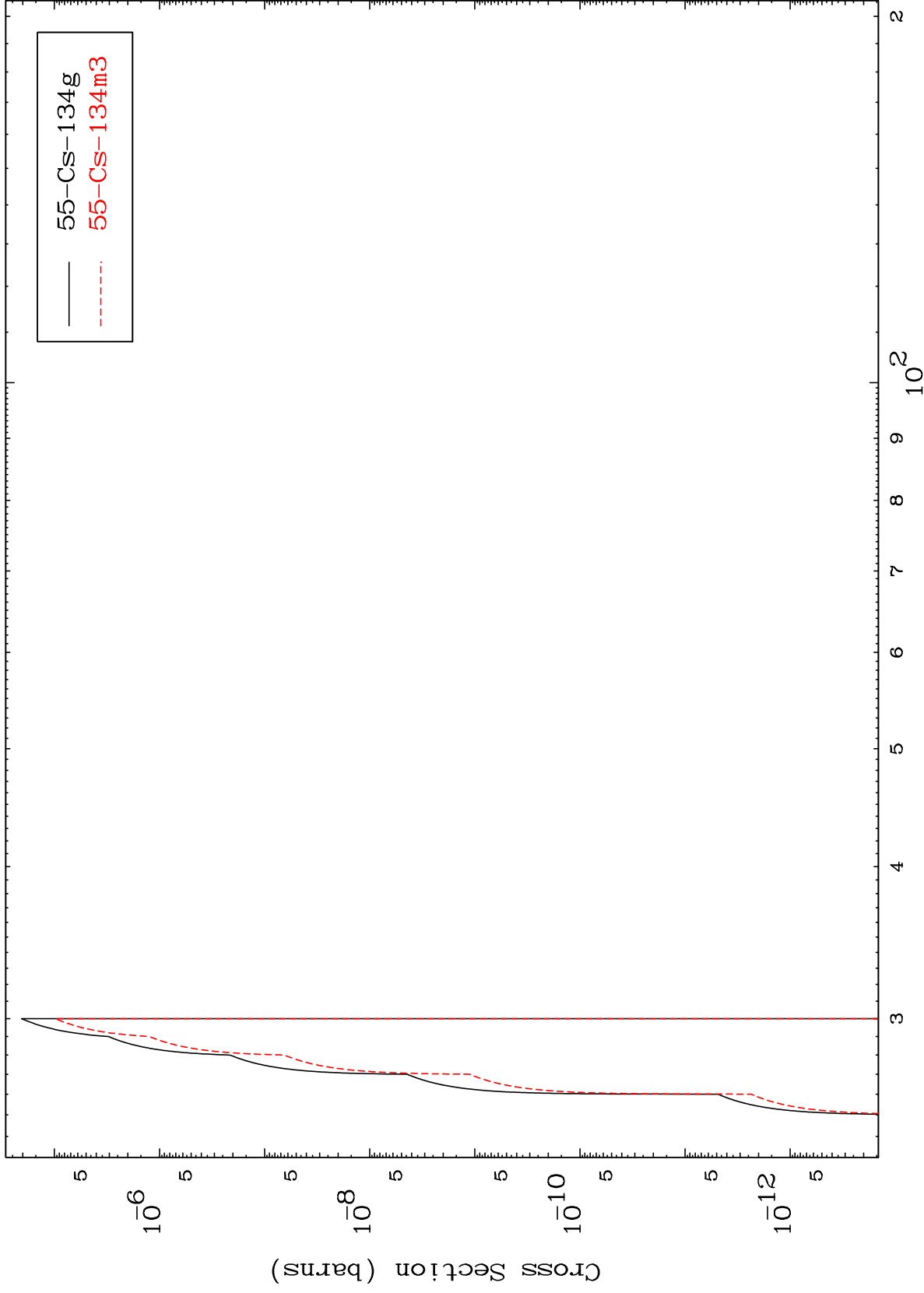
56-Ba-137

MAT 5647

(n,3n) p

56-Ba-137

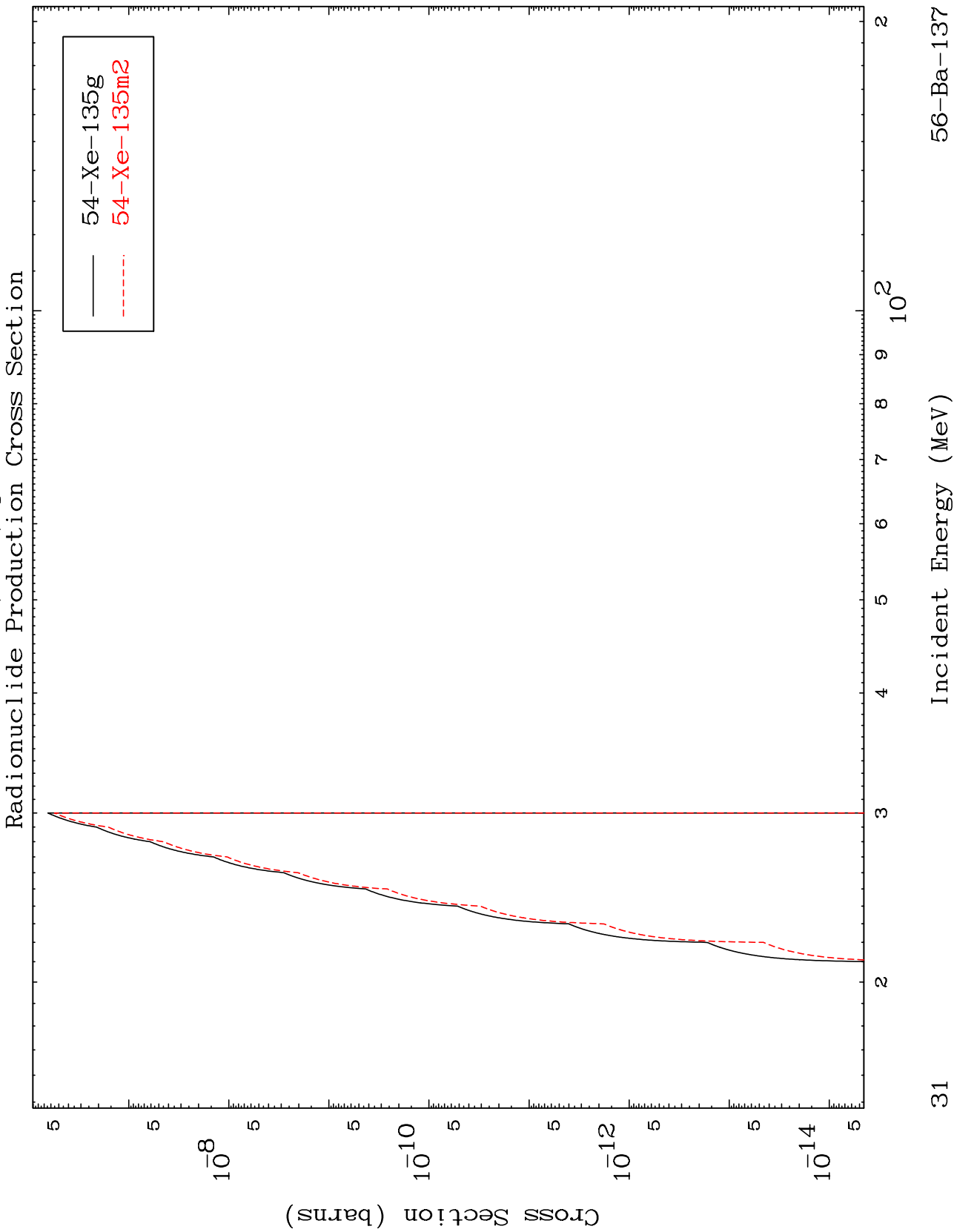
Radionuclide Production Cross Section



30

Incident Energy (MeV)

56-Ba-137

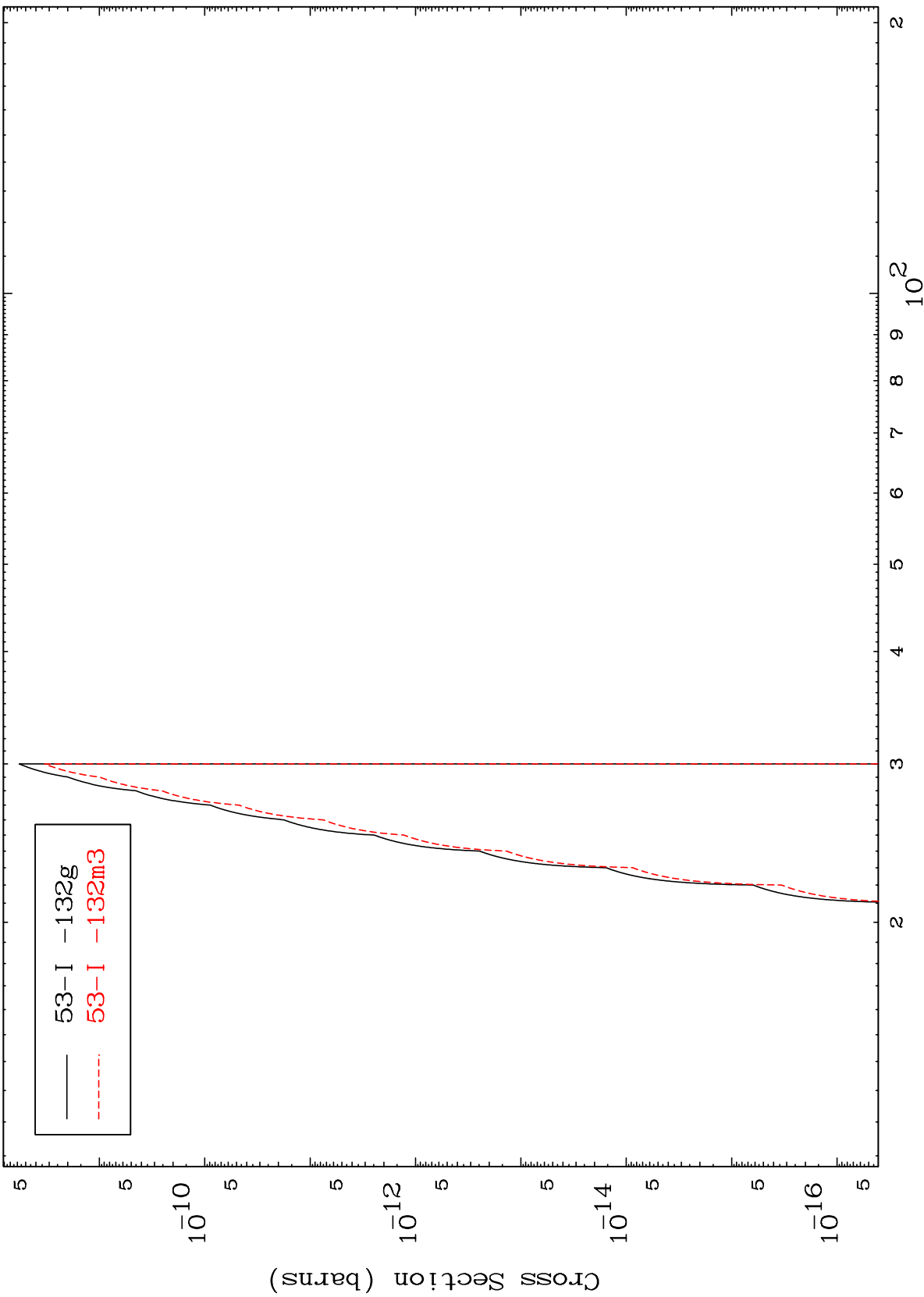


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(n,n') p  $\alpha$

56-Ba-137

Radionuclide Production Cross Section



32

Incident Energy (MeV)

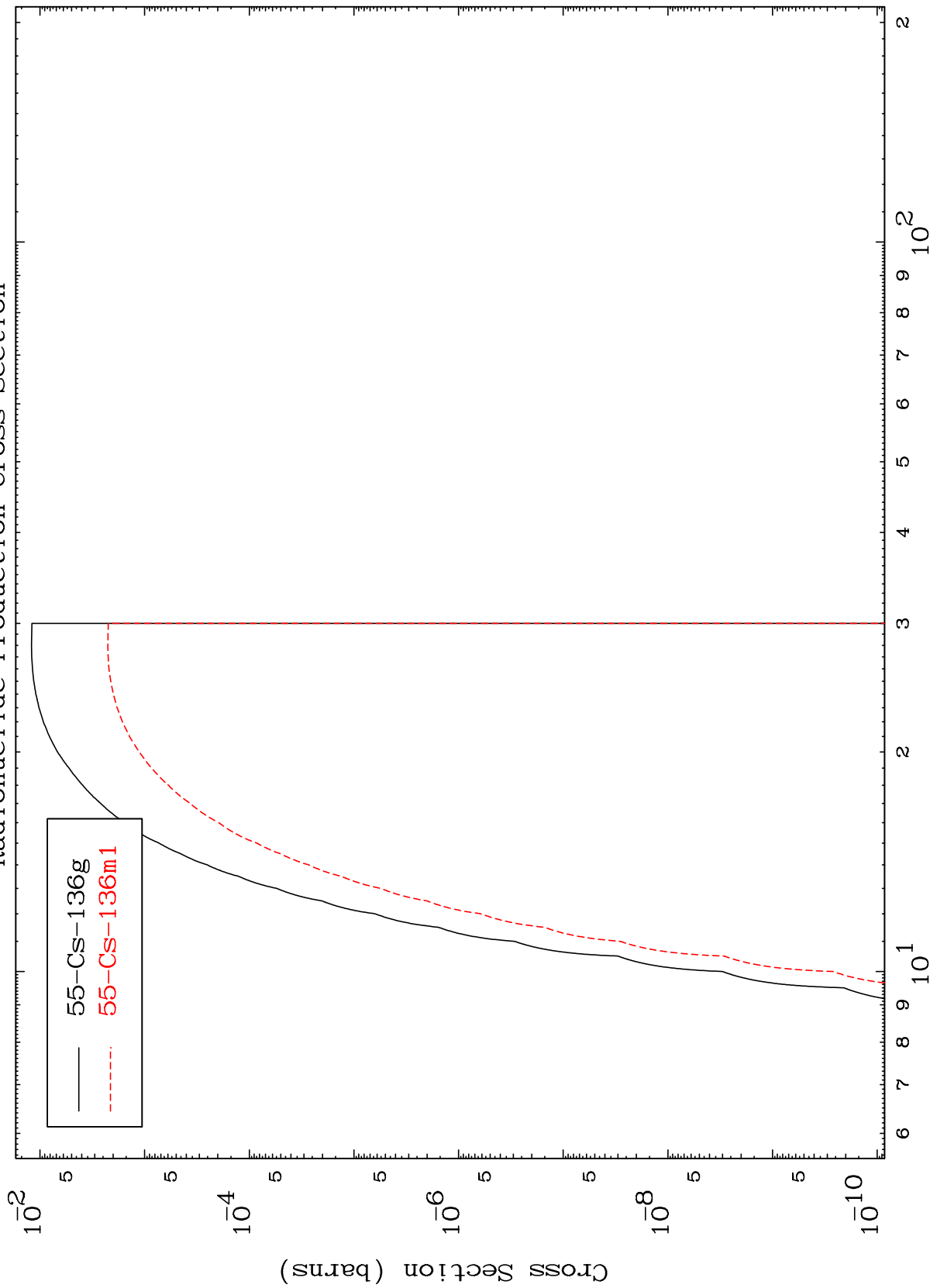
56-Ba-137

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(n,d)

56-Ba-137

Radionuclide Production Cross Section



55-Cs-136g  
55-Cs-136m1

Incident Energy (MeV)

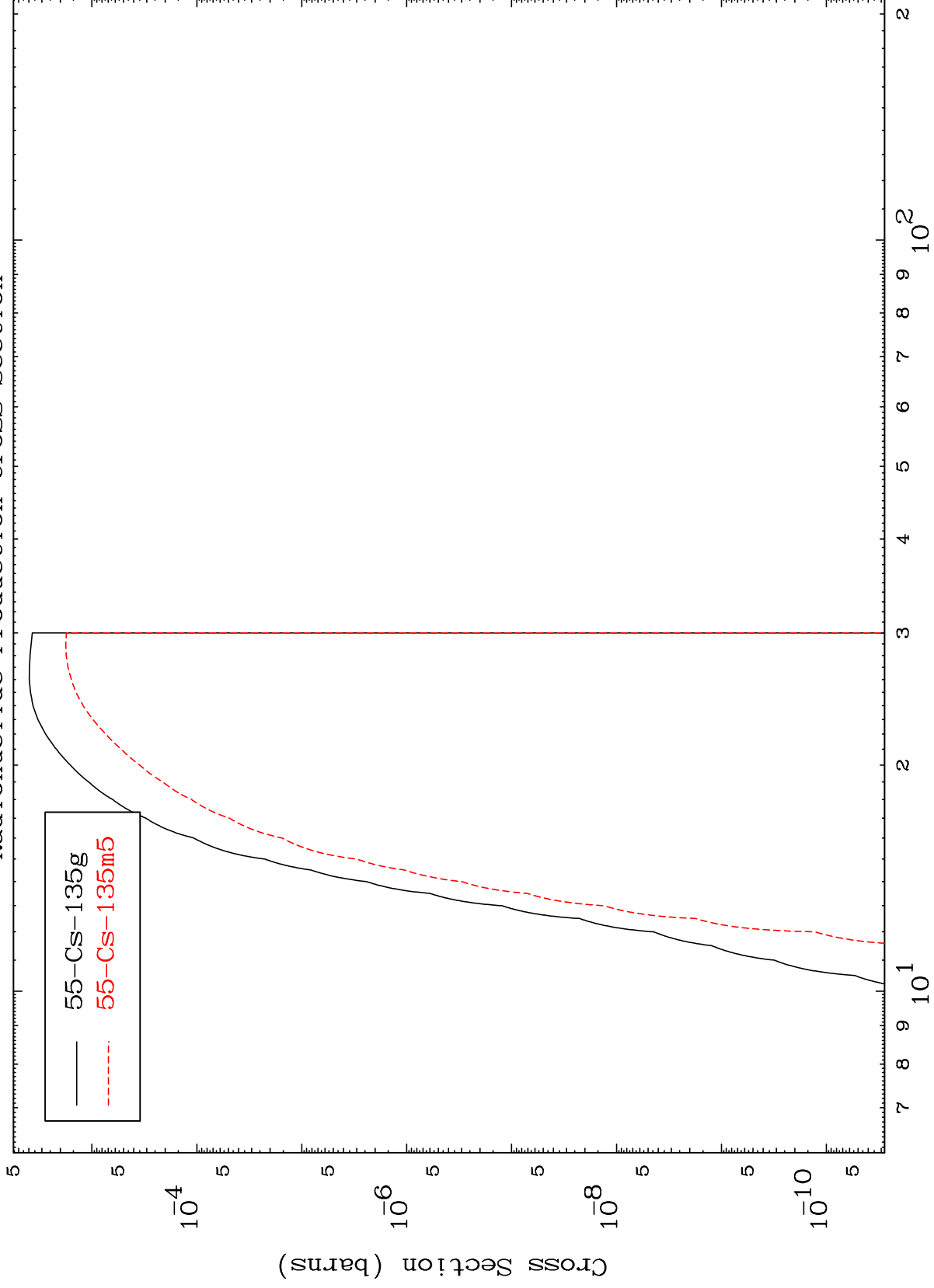
56-Ba-137

33

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56-Ba-137

(n,t)  
Radionuclide Production Cross Section



34

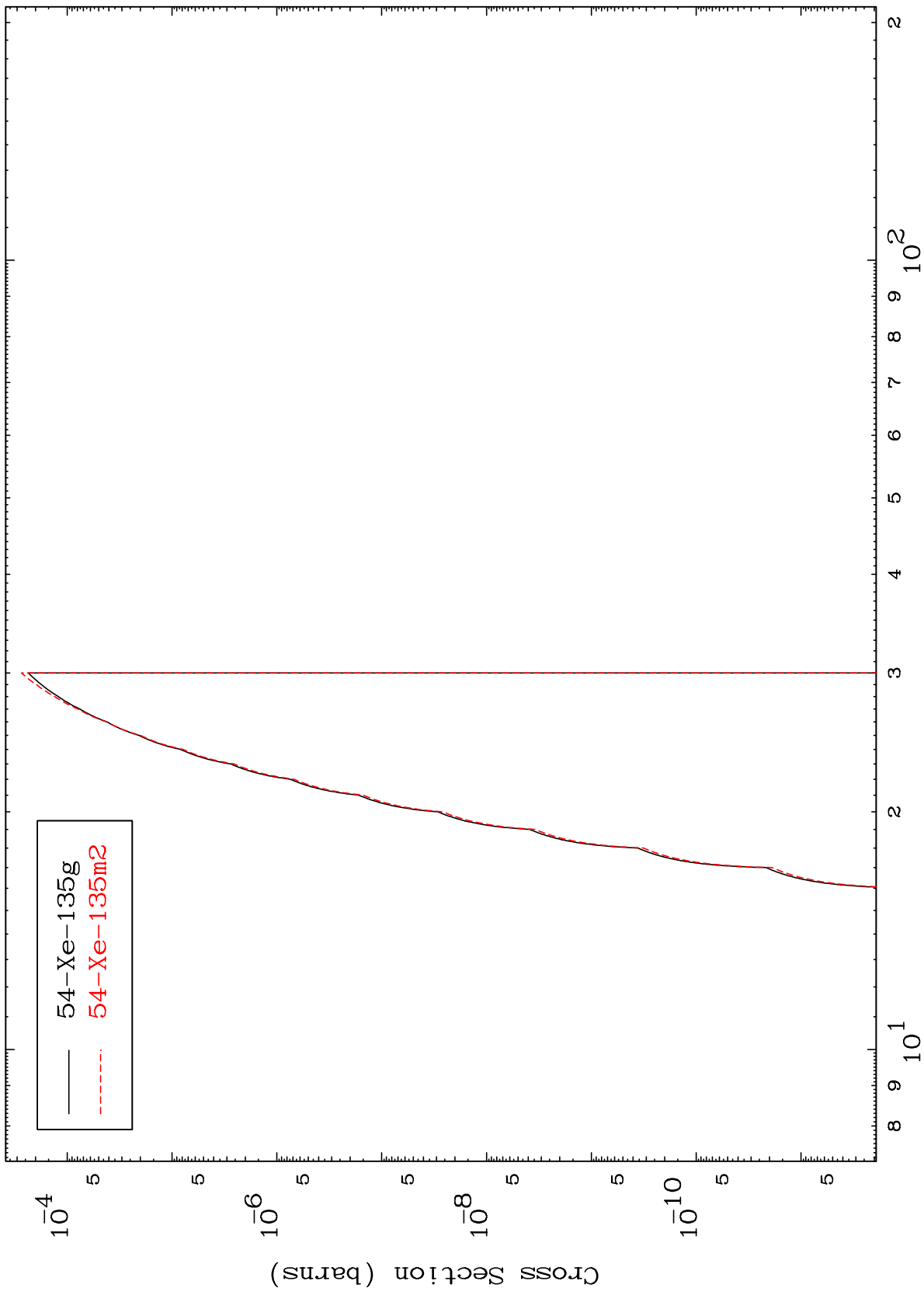
Incident Energy (MeV)

56-Ba-137

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56-Ba-137

(n,He-3)  
Radionuclide Production Cross Section



35

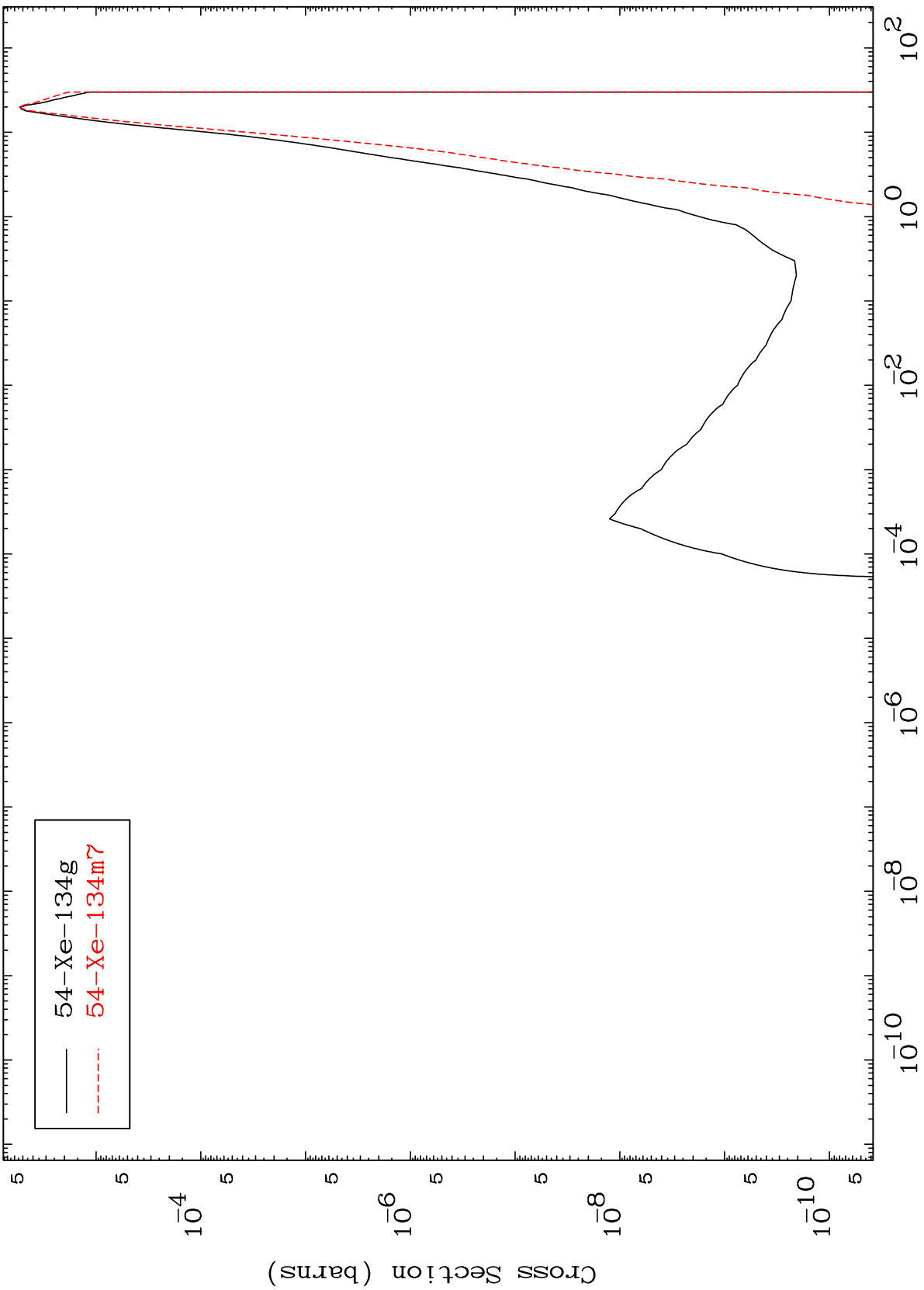
Incident Energy (MeV)

56-Ba-137

MAT 5647

56-Ba-137

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



36

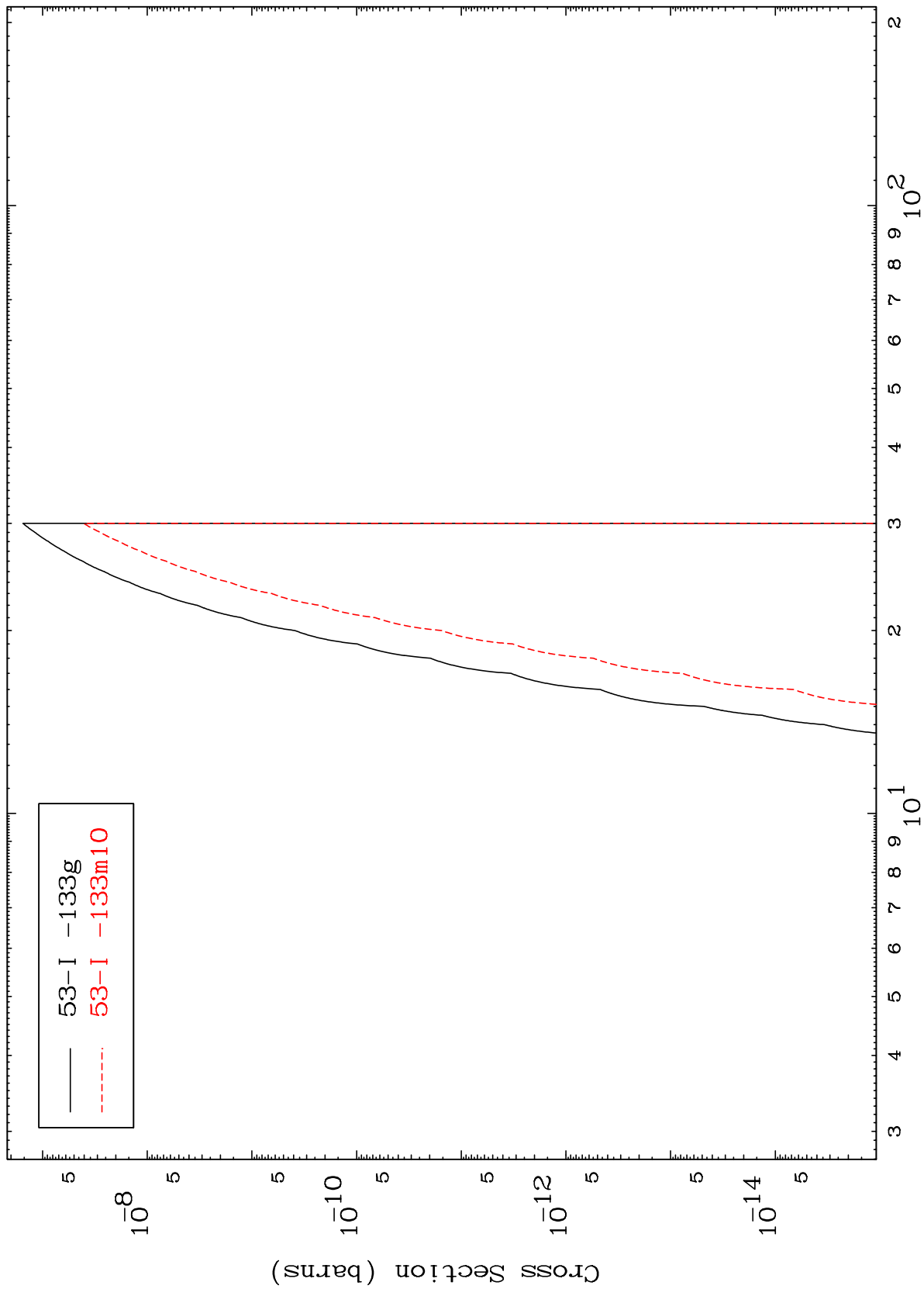
56-Ba-137

MAT 5647

(n,p)  $\alpha$

56-Ba-137

Radionuclide Production Cross Section

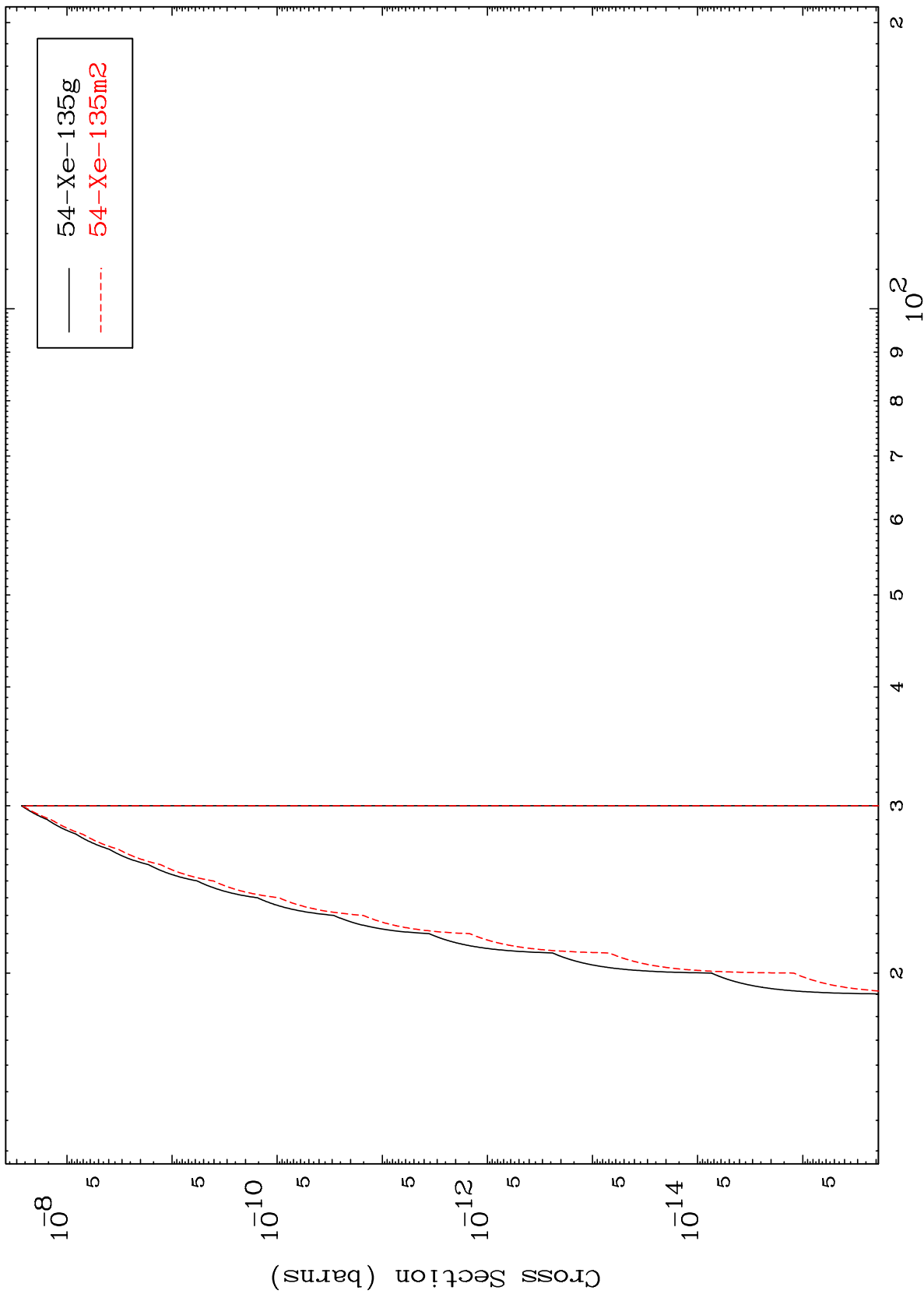


37

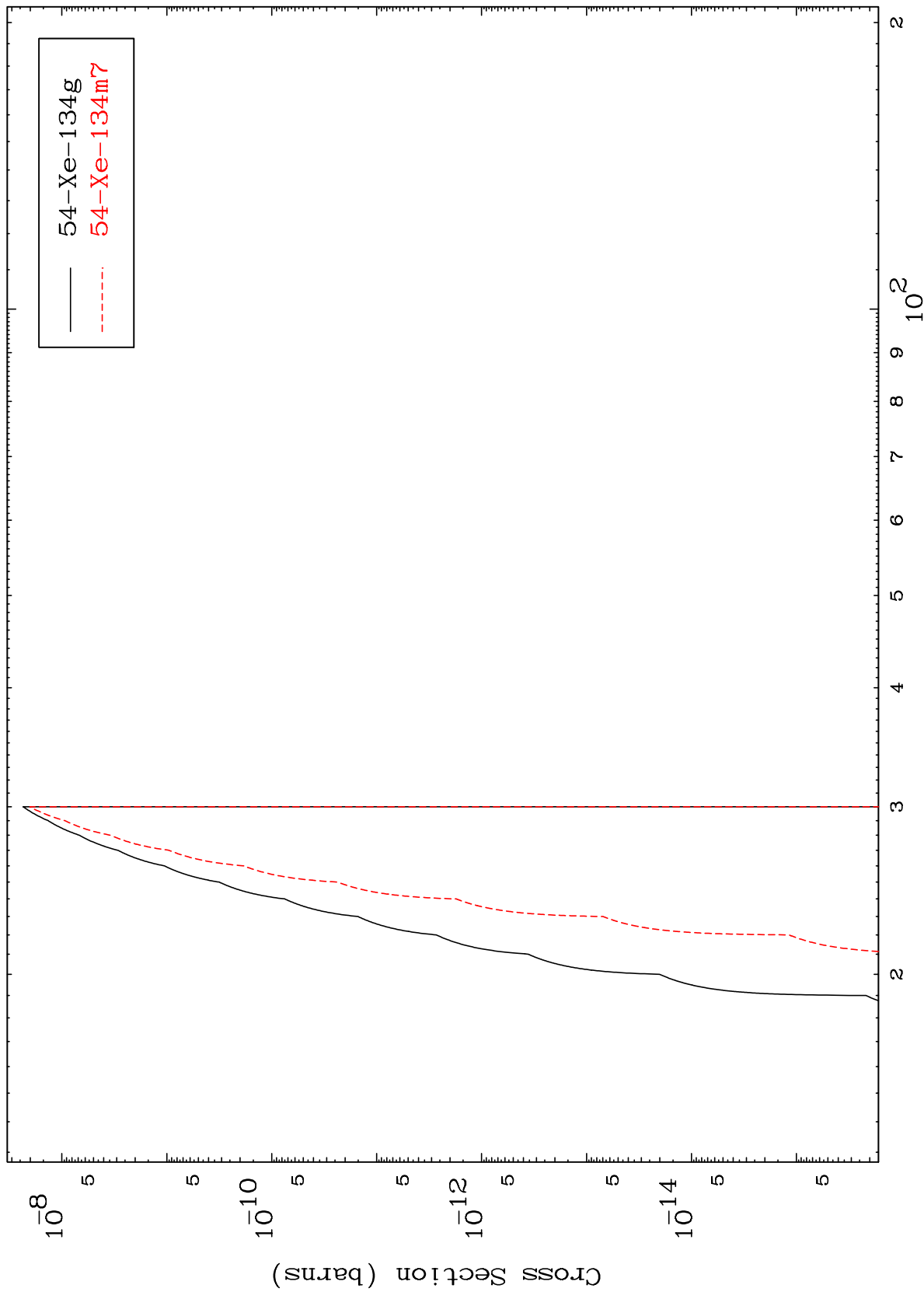
Incident Energy (MeV)

56-Ba-137

Radionuclide Production Cross Section



Radionuclide Production Cross Section



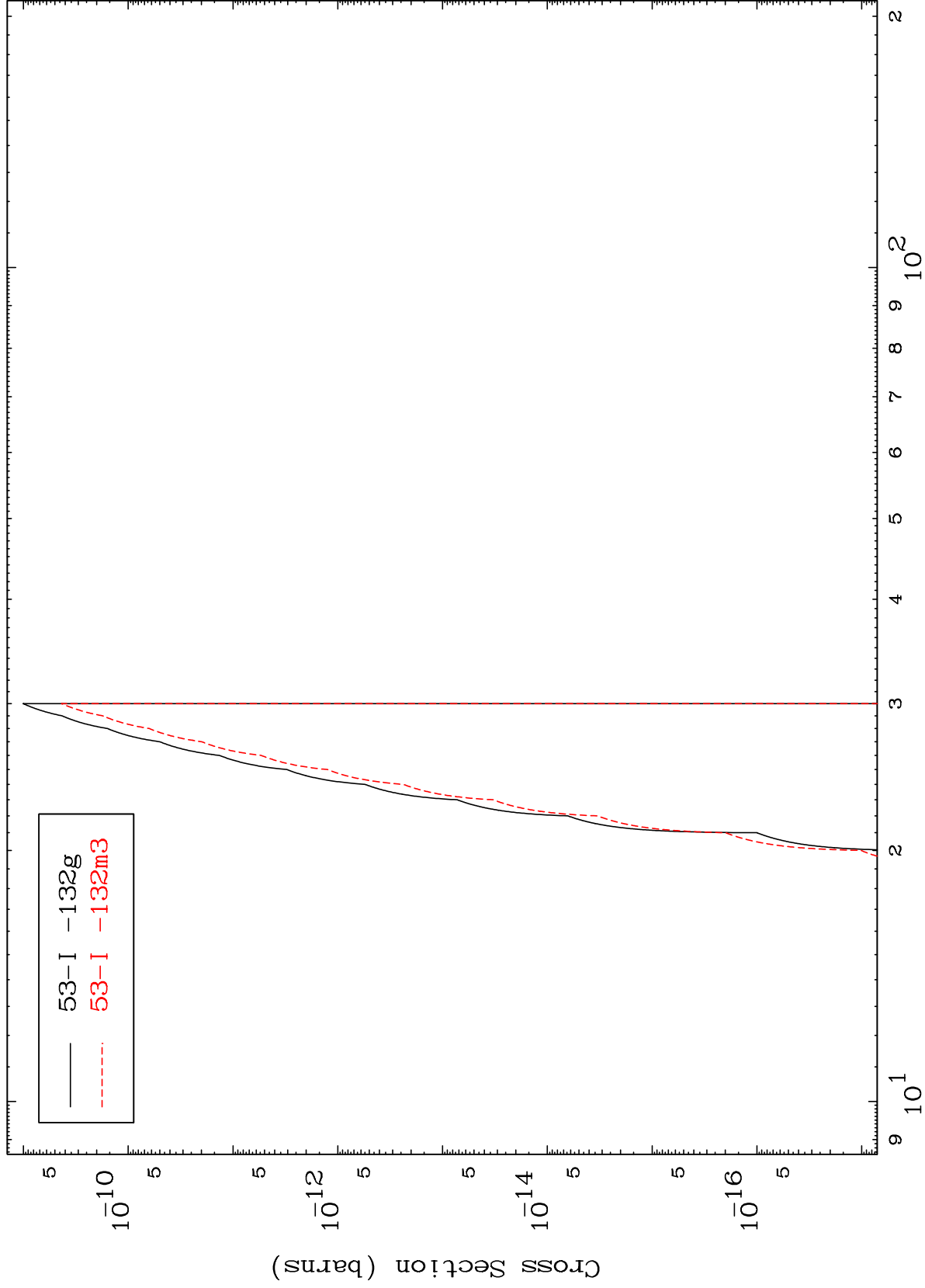
54-Xe-134g  
54-Xe-134m7

MAT 5647

(n,d)  $\alpha$

56-Ba-137

Radionuclide Production Cross Section



Incident Energy (MeV)

56-Ba-137

40