

Program EVALPLOT  
(Version 2018-1)

by

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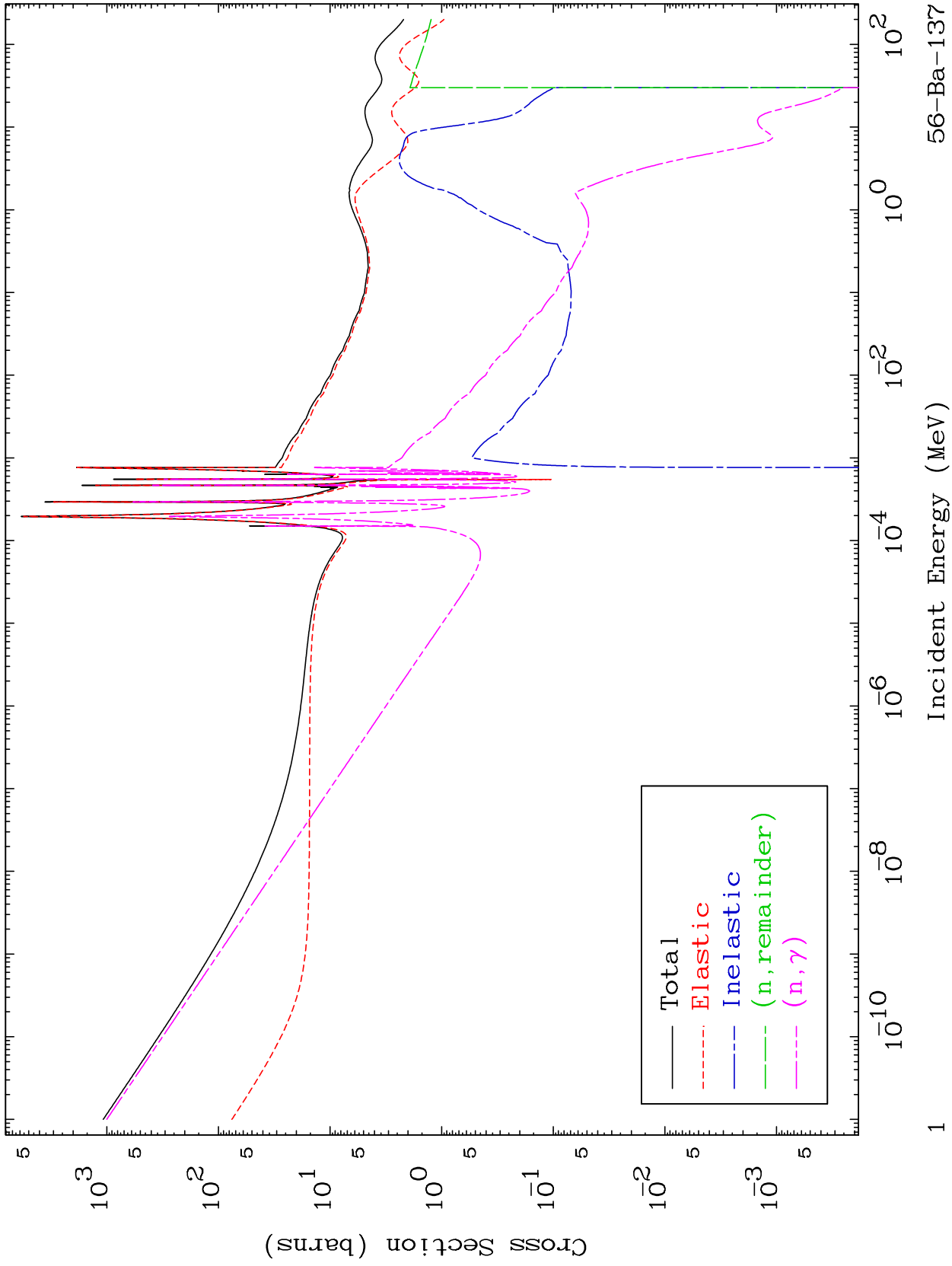
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5647

Major  
293 Kelvin Cross Sections

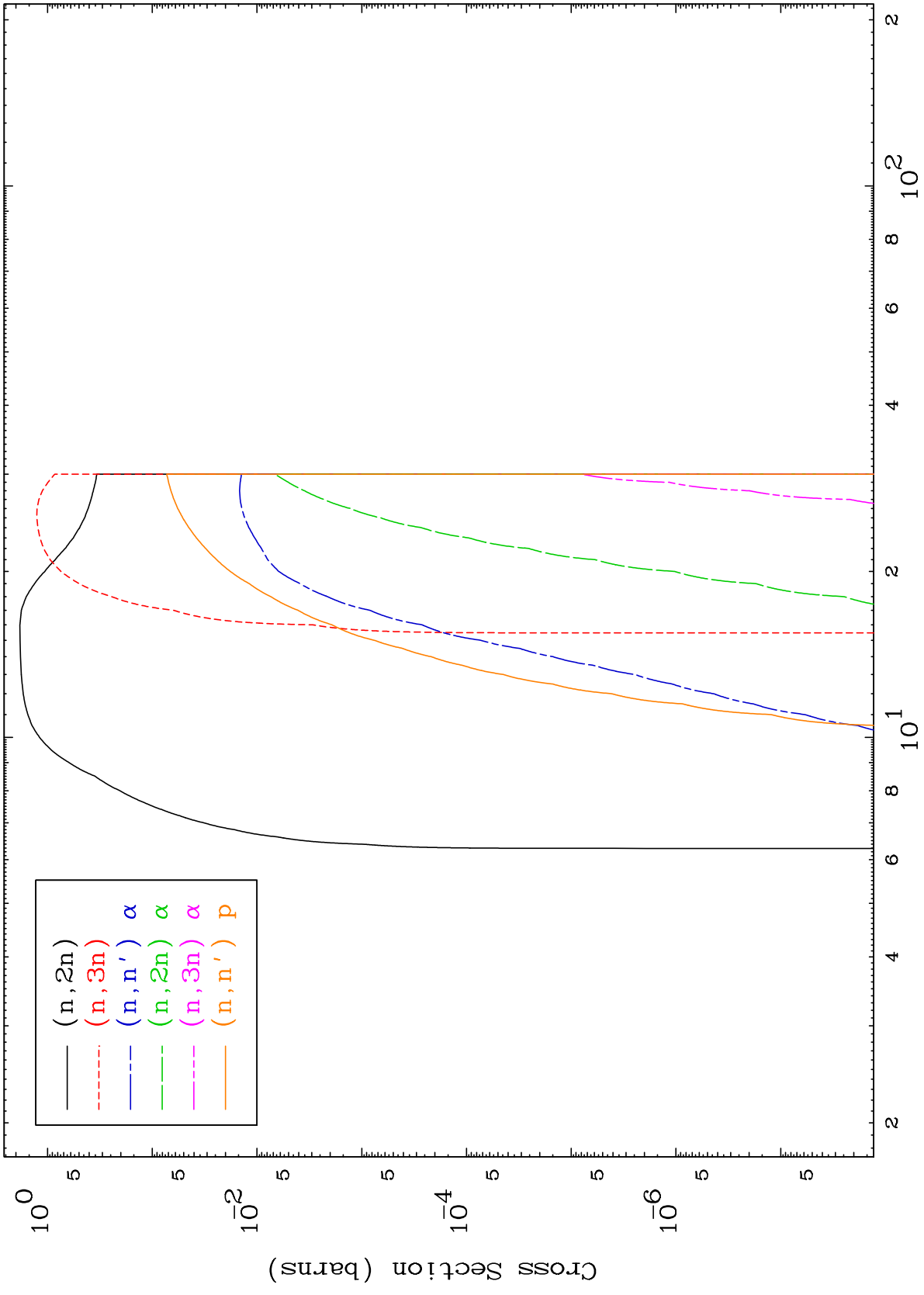
56-Ba-137



MAT 5647

### Neutron Production 293 Kelvin Cross Sections

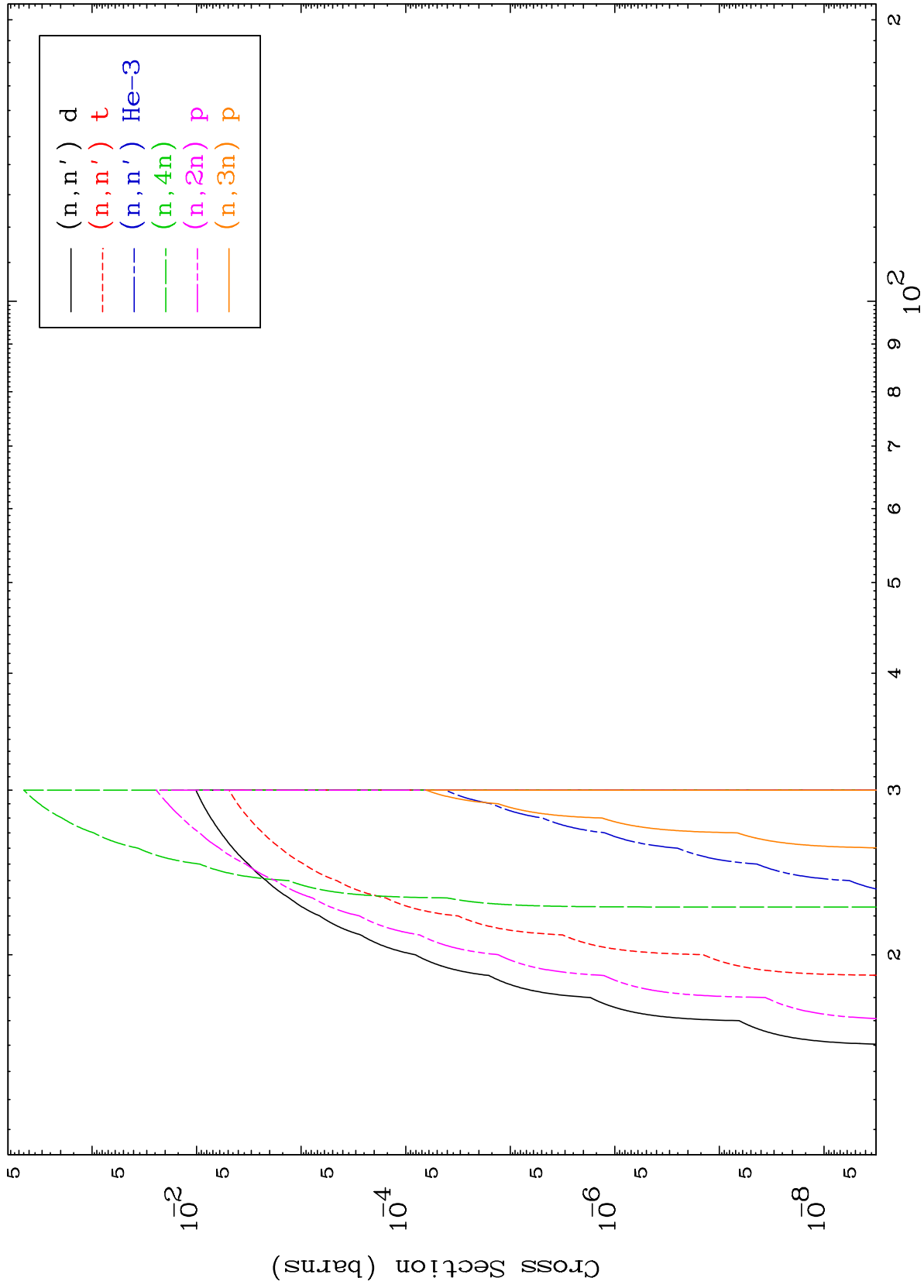
56-Ba-137



2

Incident Energy (MeV)

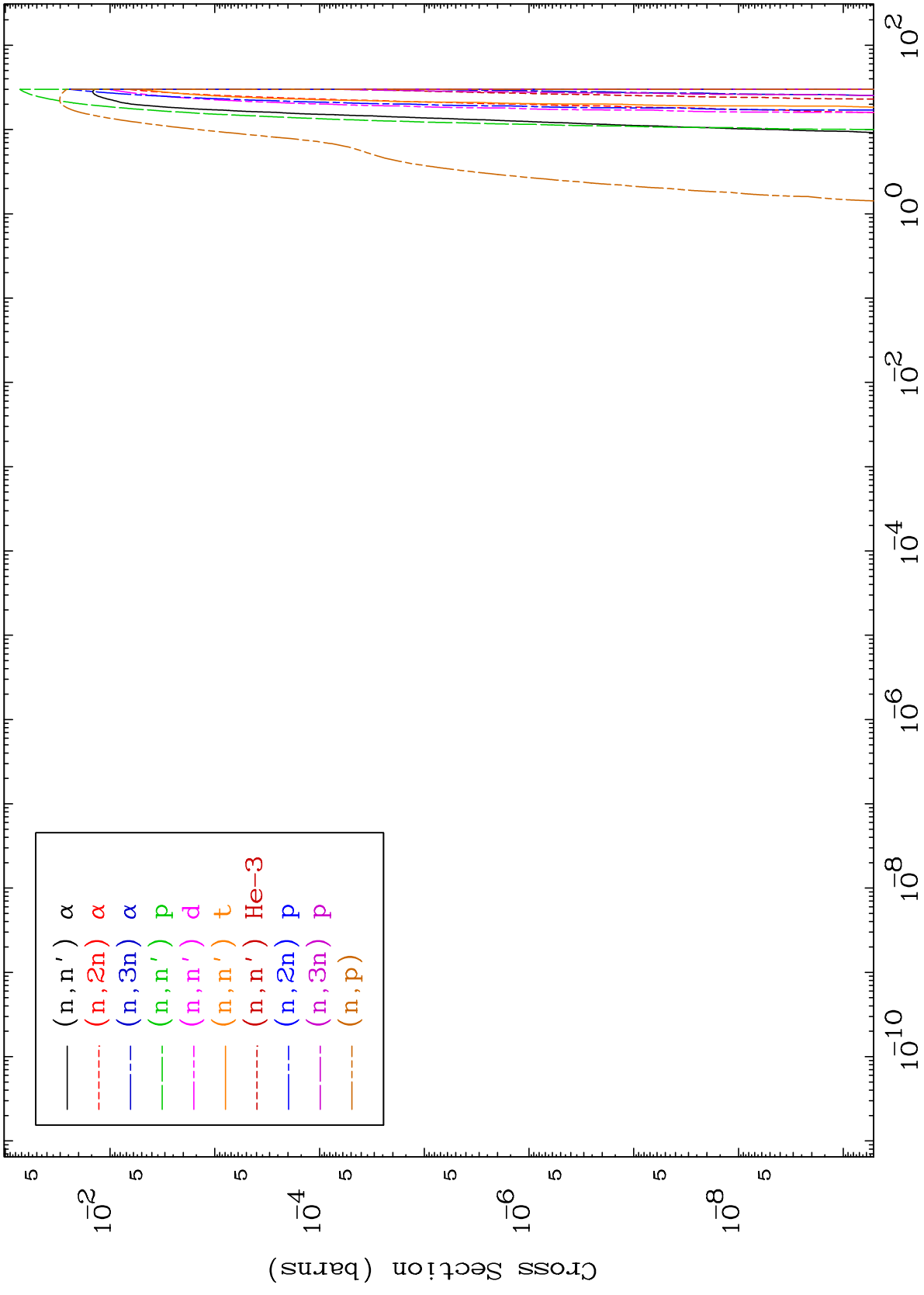
56-Ba-137



MAT 5647

Charged Particle  
293 Kelvin Cross Sections

56-Ba-137



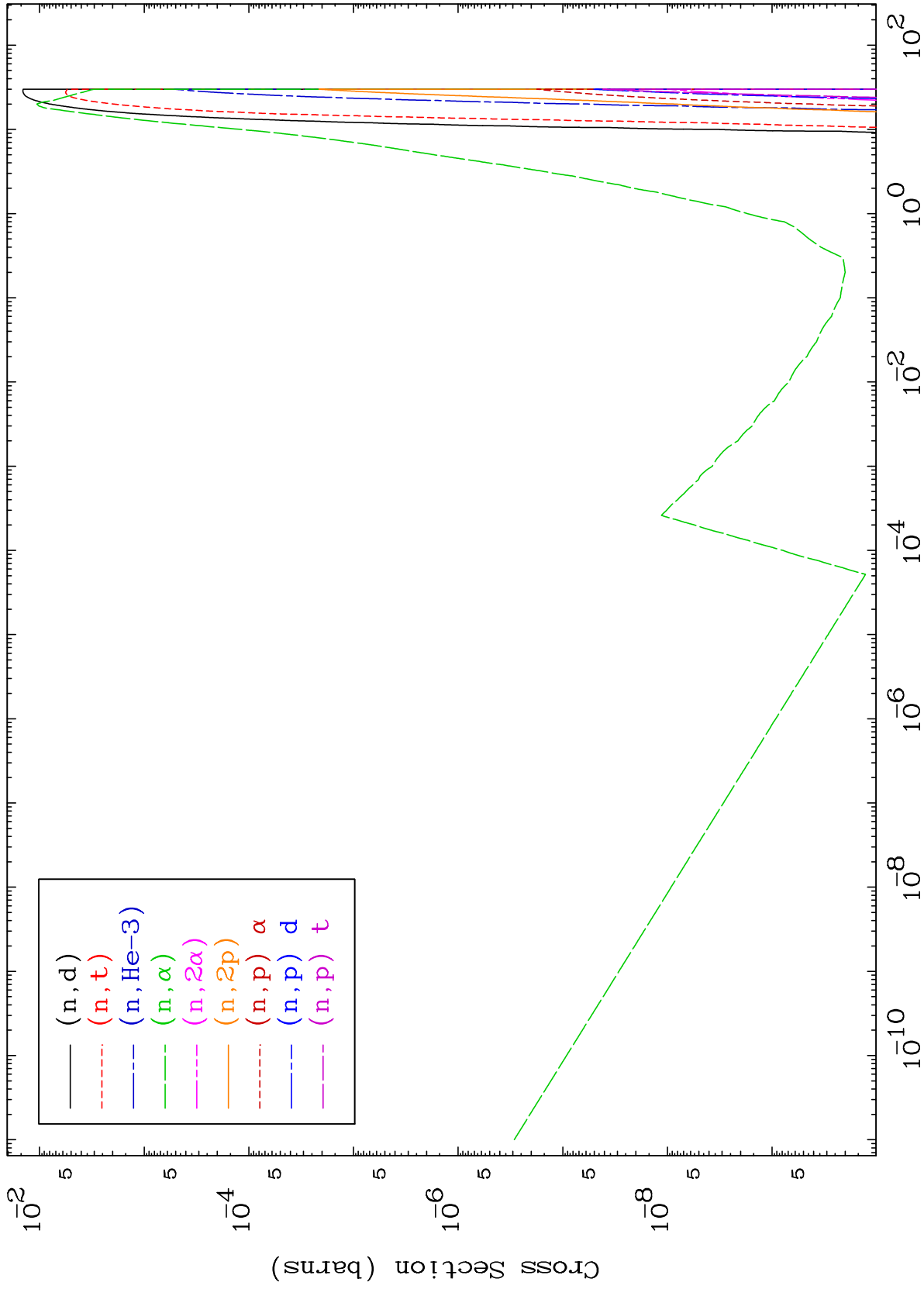
56-Ba-137

Incident Energy (MeV)

MAT 5647

Charged Particle  
293 Kelvin Cross Sections

56-Ba-137



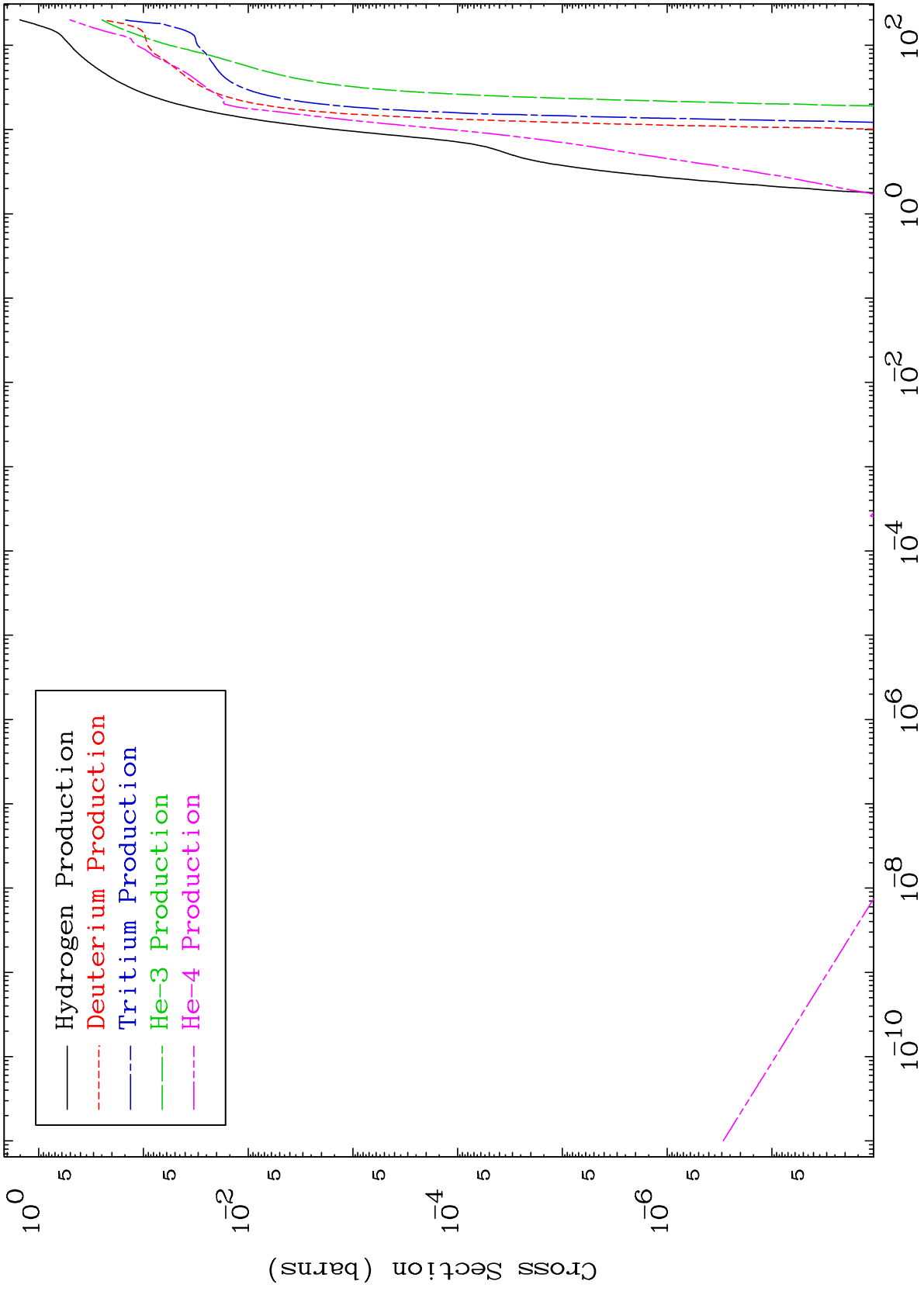
5

56-Ba-137

MAT 5647

Particle Production  
293 Kelvin Cross Sections

56-Ba-137

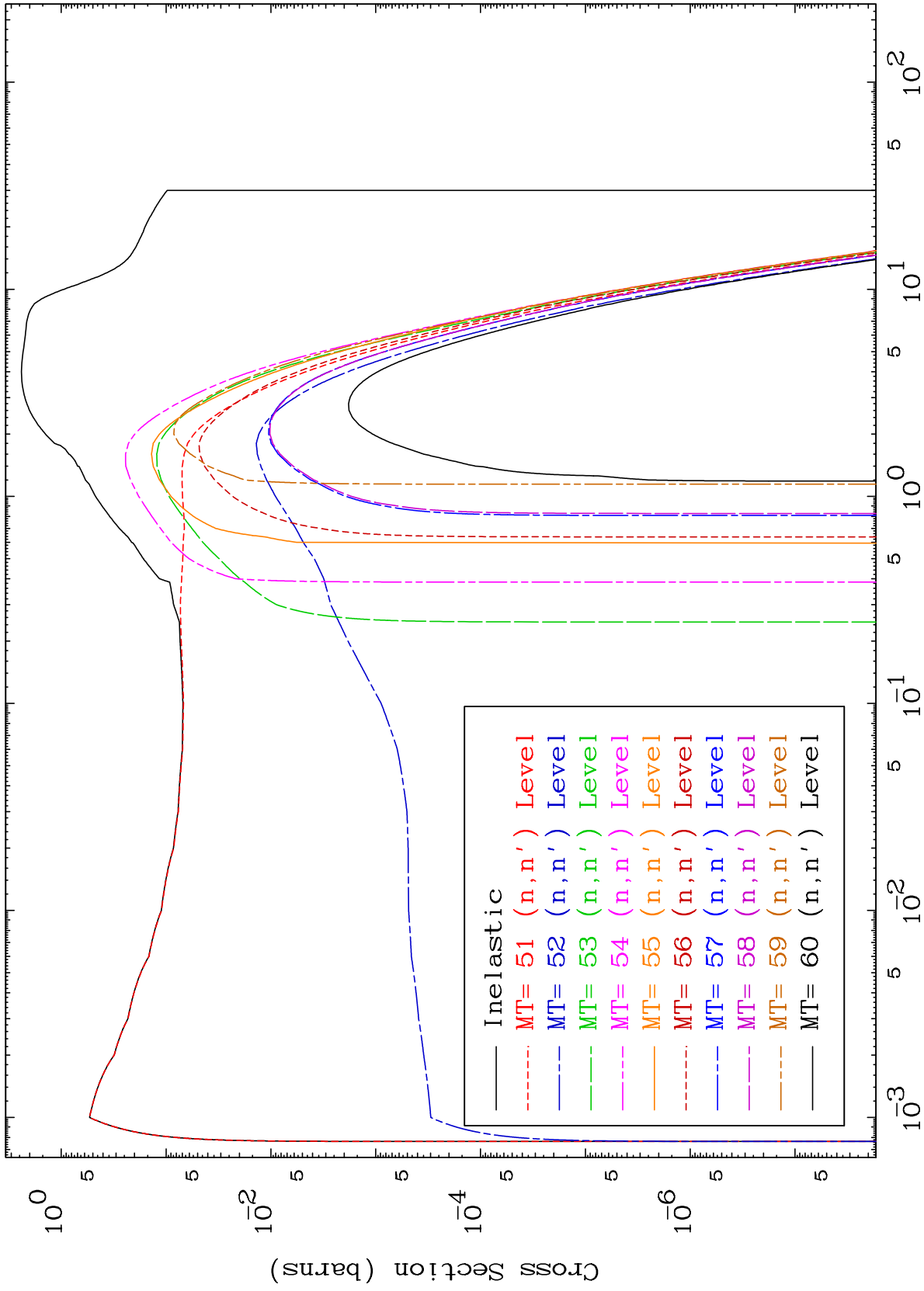


56-Ba-137

MAT 5647

(n,n') Level  
293 Kelvin Cross Sections

56-Ba-137



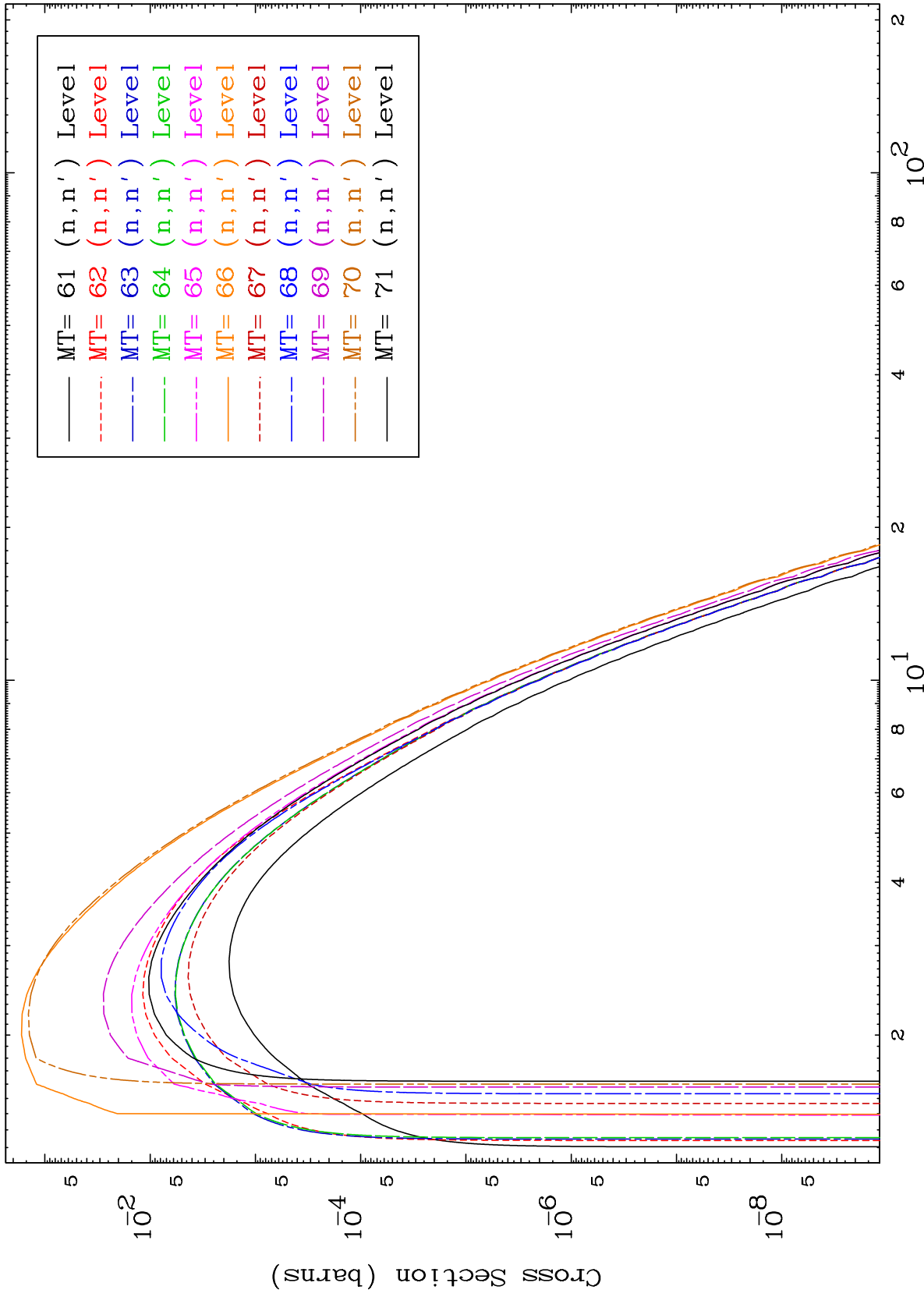


MAT 5647

(n,n') Level

56-Ba-137

293 Kelvin Cross Sections



8

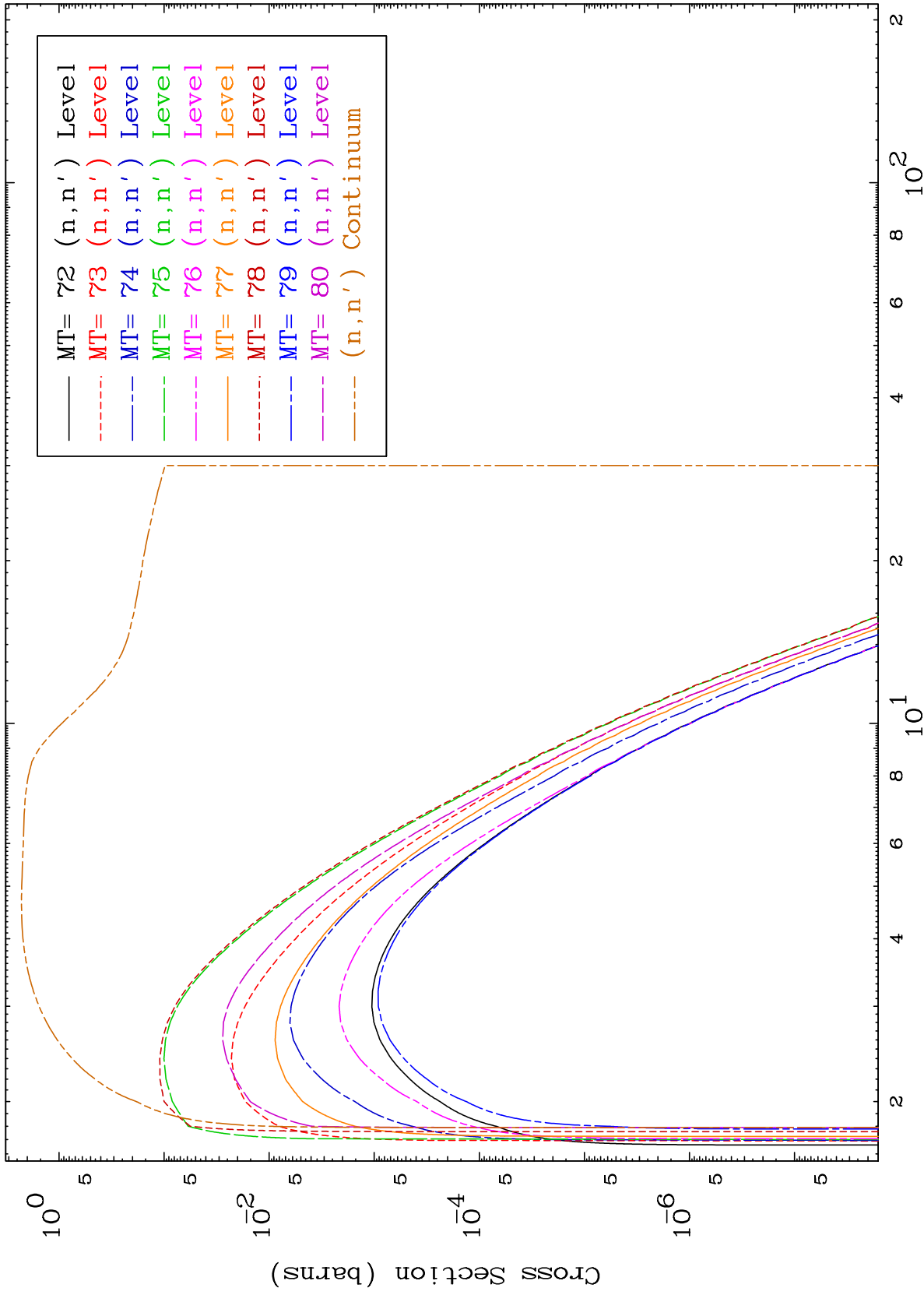
Incident Energy (MeV)

56-Ba-137

MAT 5647

(n,n') Level  
293 Kelvin Cross Sections

56-Ba-137



9

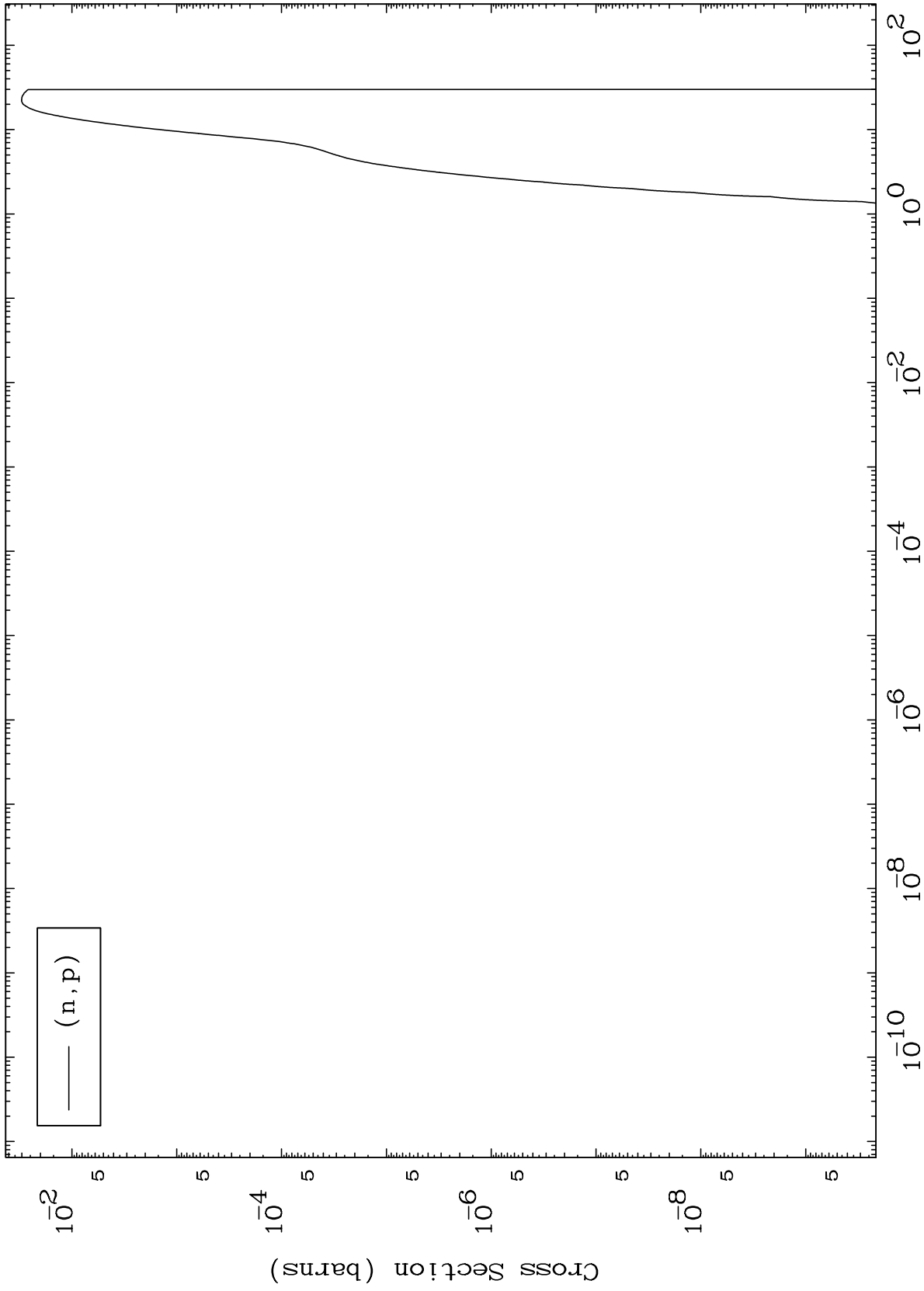
Incident Energy (MeV)

56-Ba-137

MAT 5647

(n,p) Levels  
293 Kelvin Cross Sections

56-Ba-137



10

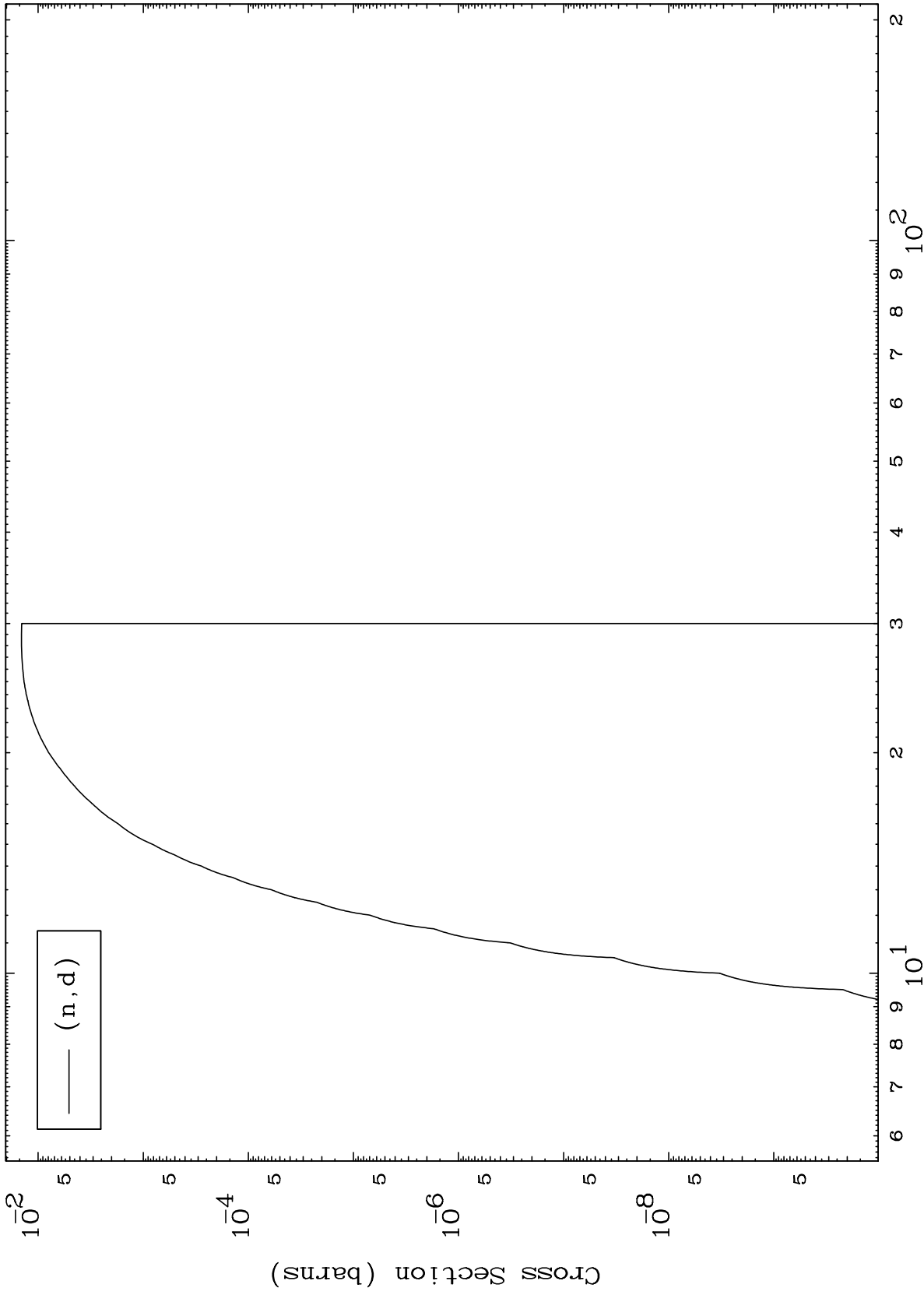
Incident Energy (MeV)

56-Ba-137

MAT 5647

(n,d) Levels  
293 Kelvin Cross Sections

56-Ba-137



11

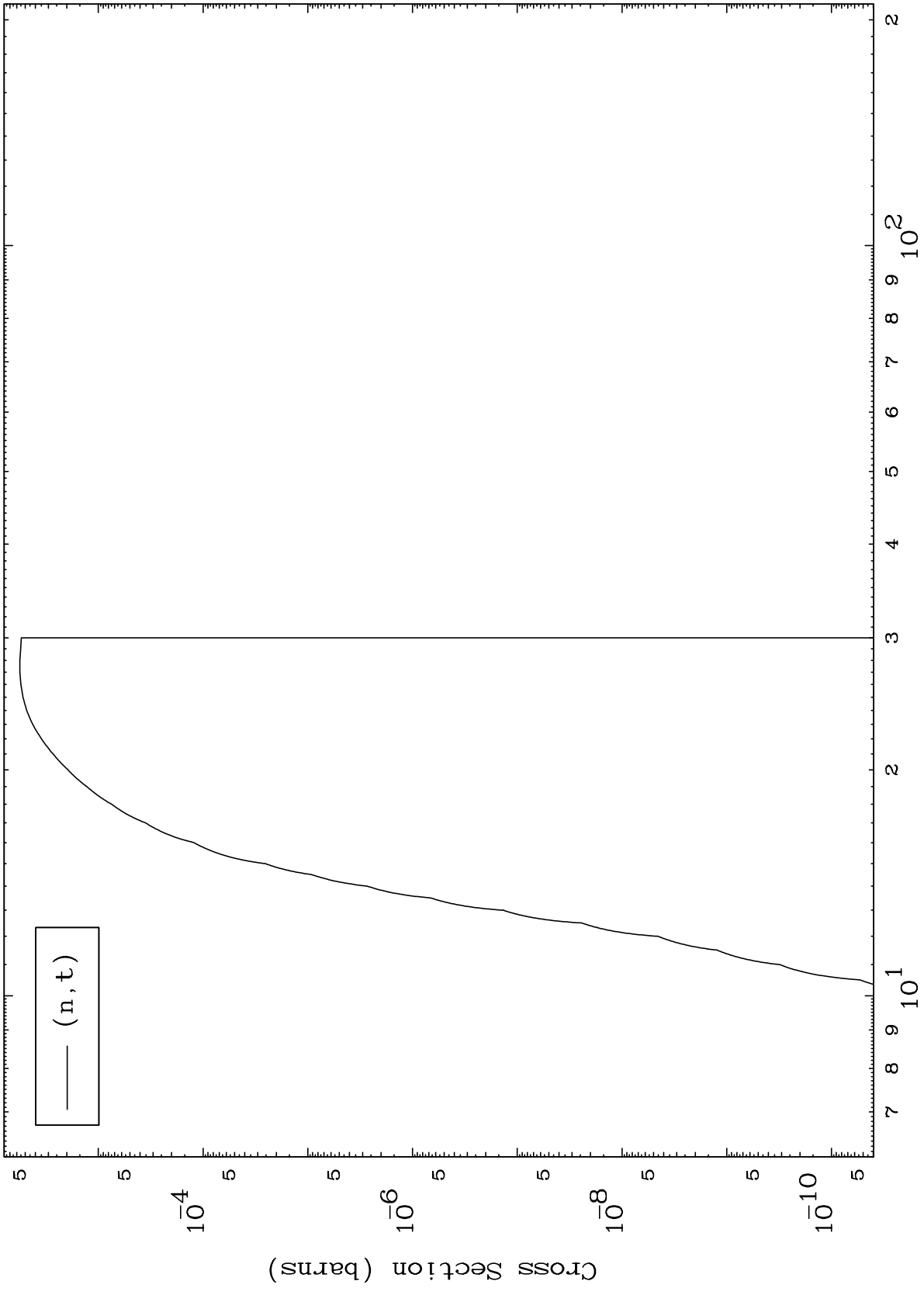
Incident Energy (MeV)

56-Ba-137

MAT 5647

(n,t) Levels  
293 Kelvin Cross Sections

56-Ba-137



12

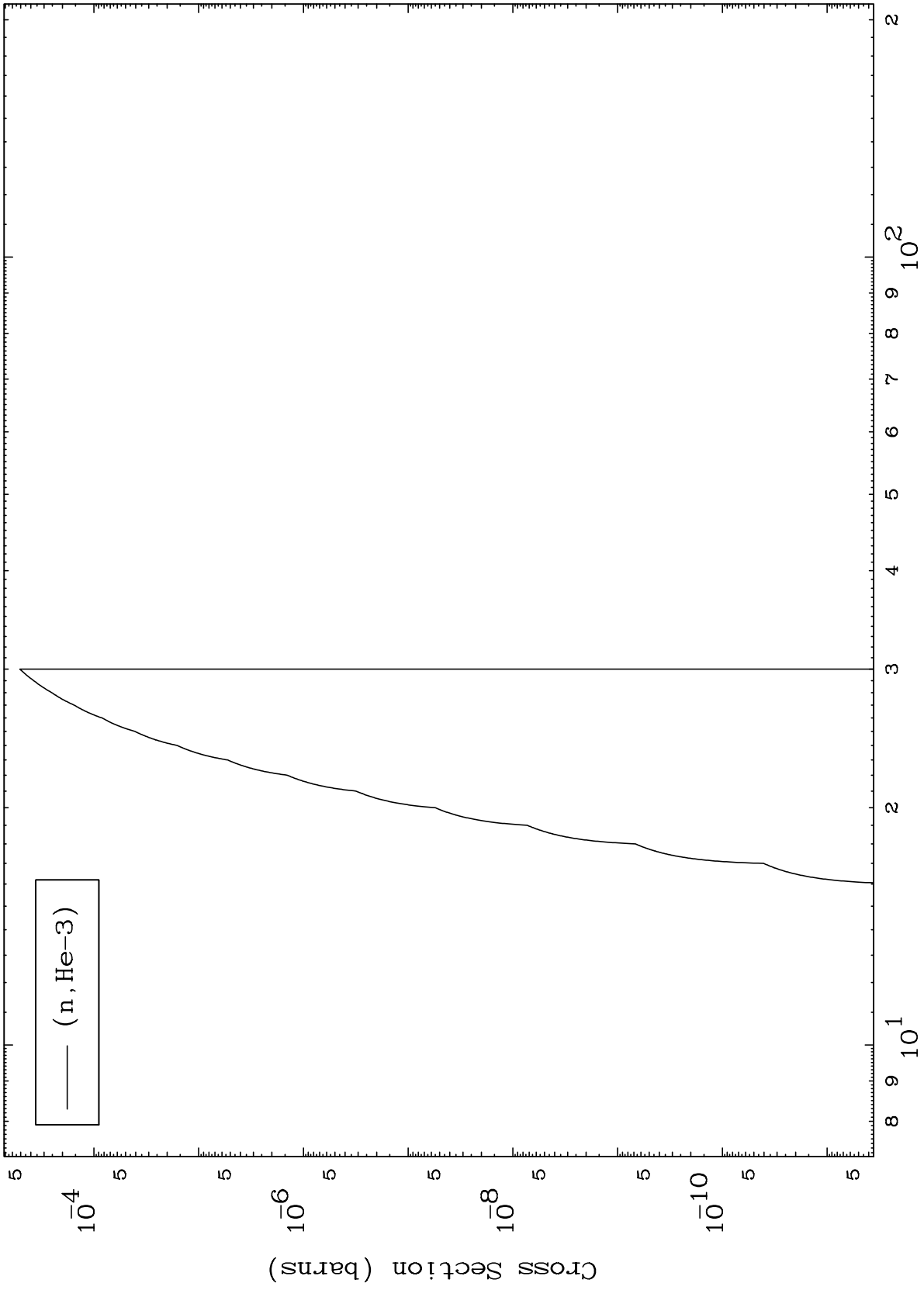
Incident Energy (MeV)

56-Ba-137

MAT 5647

(n,He3) Levels  
293 Kelvin Cross Sections

56-Ba-137



13

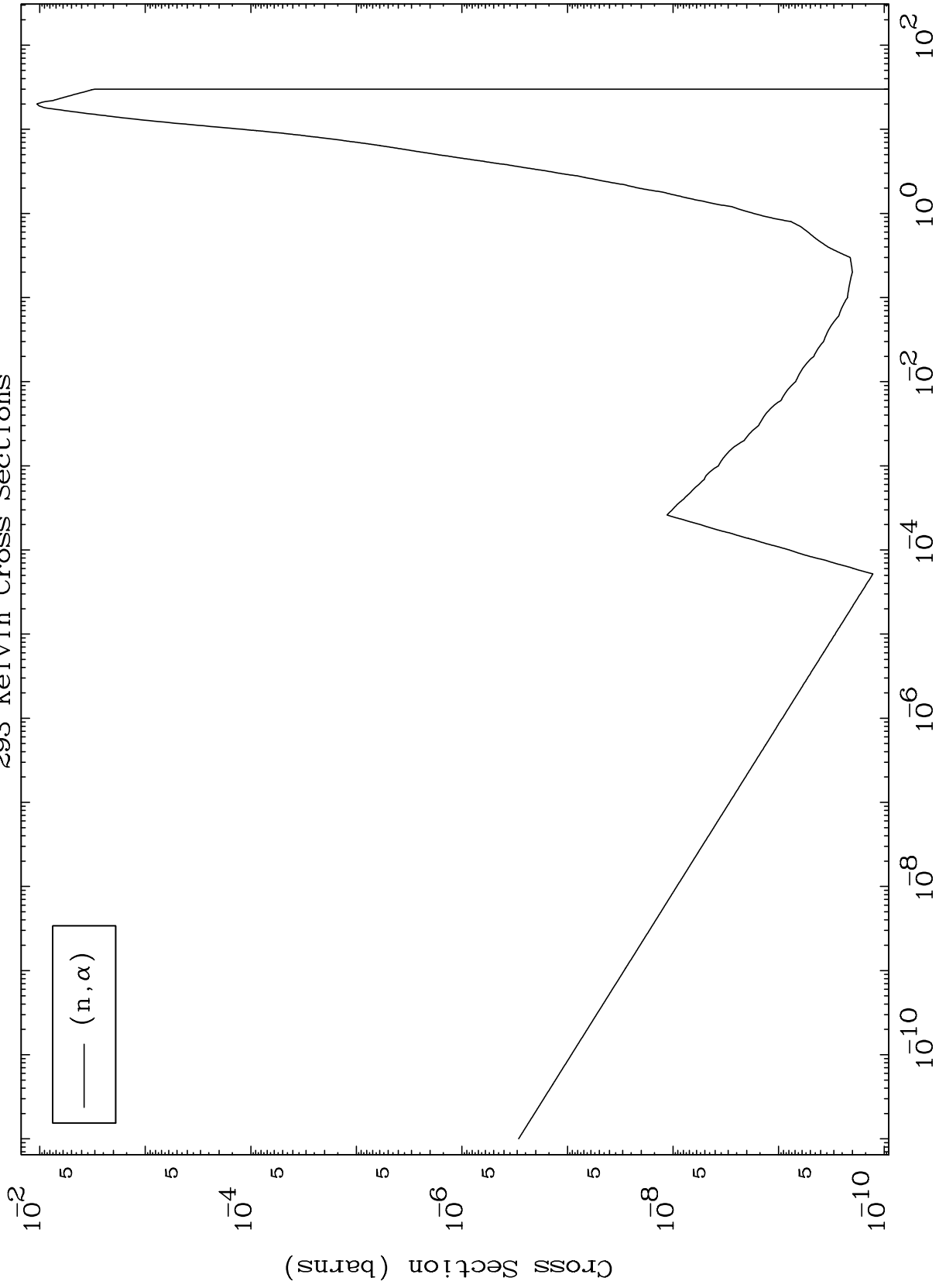
Incident Energy (MeV)

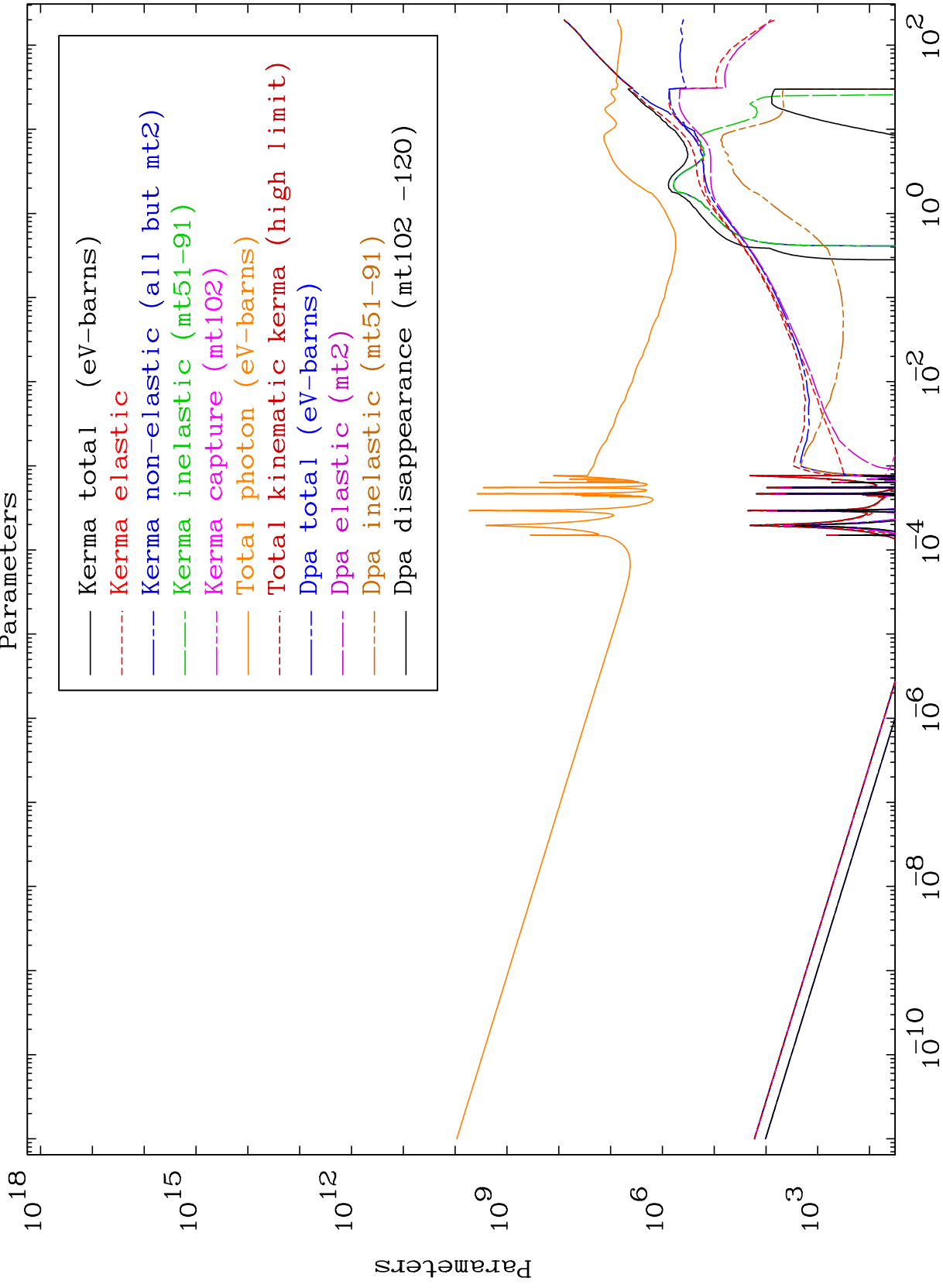
56-Ba-137

MAT 5647

(n,α) Levels  
293 Kelvin Cross Sections

56-Ba-137



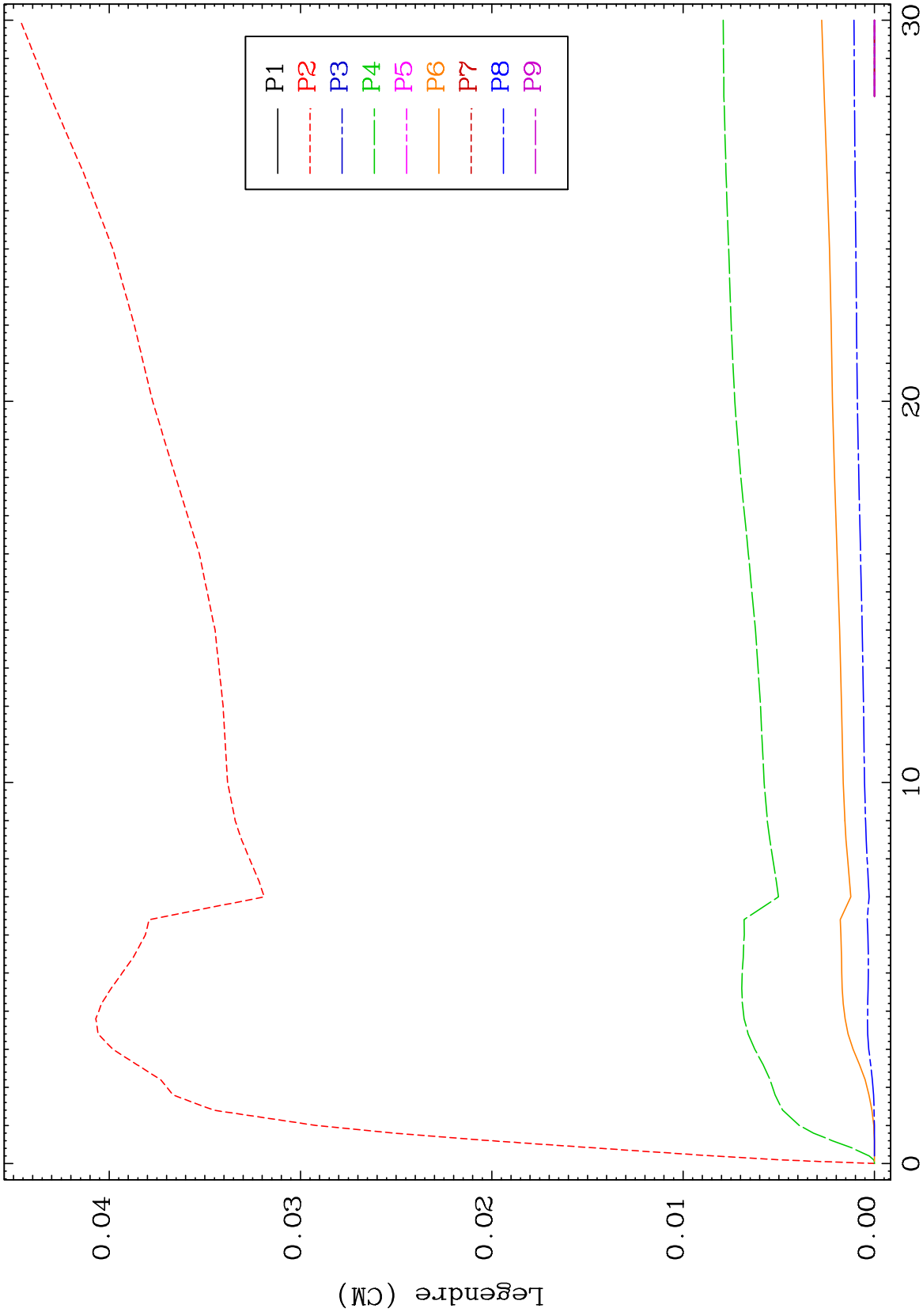




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Elastic Legendre Coefficients

56-Ba-137



16

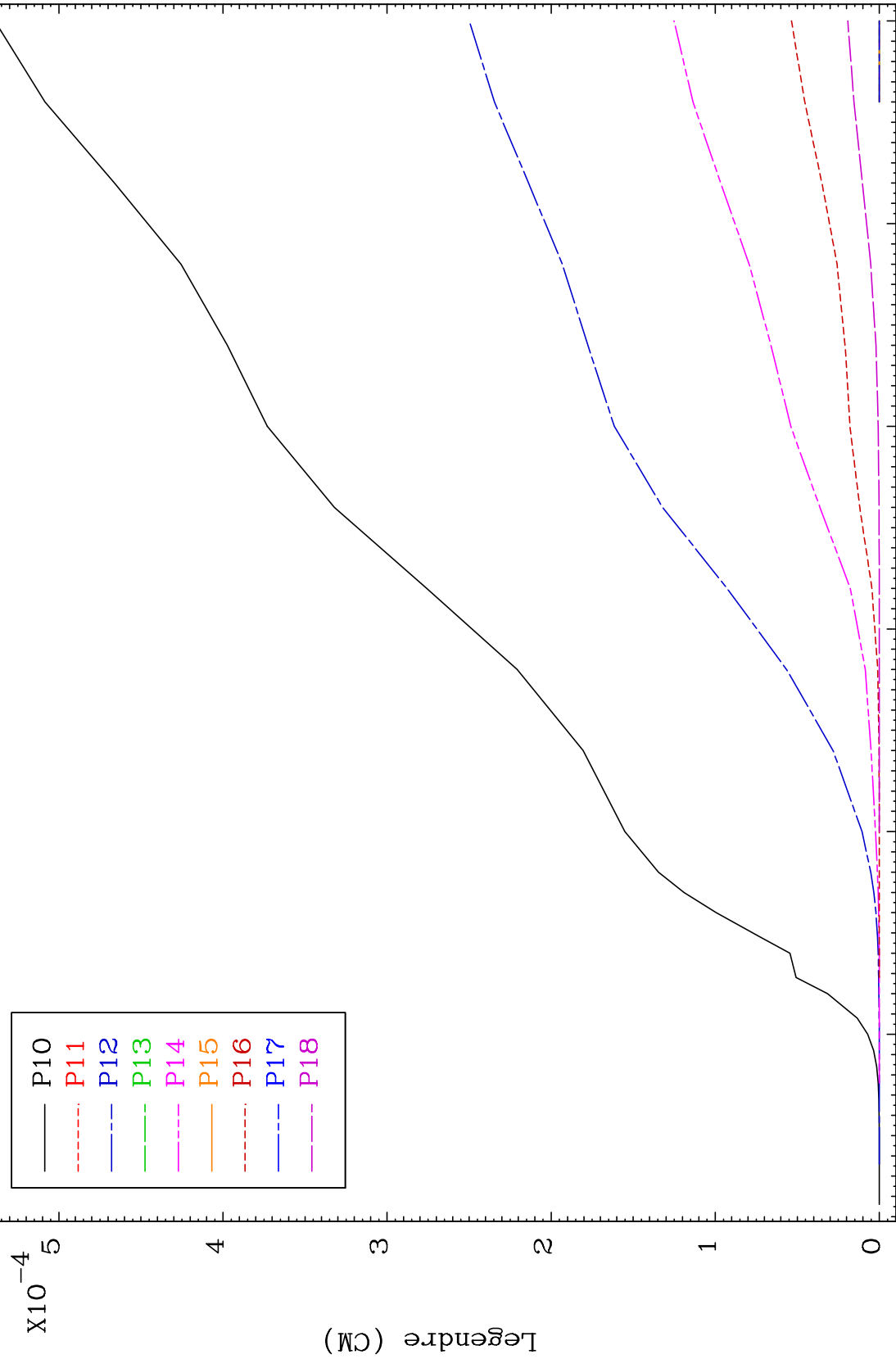
Incident Energy (MeV)

56-Ba-137

MAT 5647

Elastic Legendre Coefficients

56-Ba-137



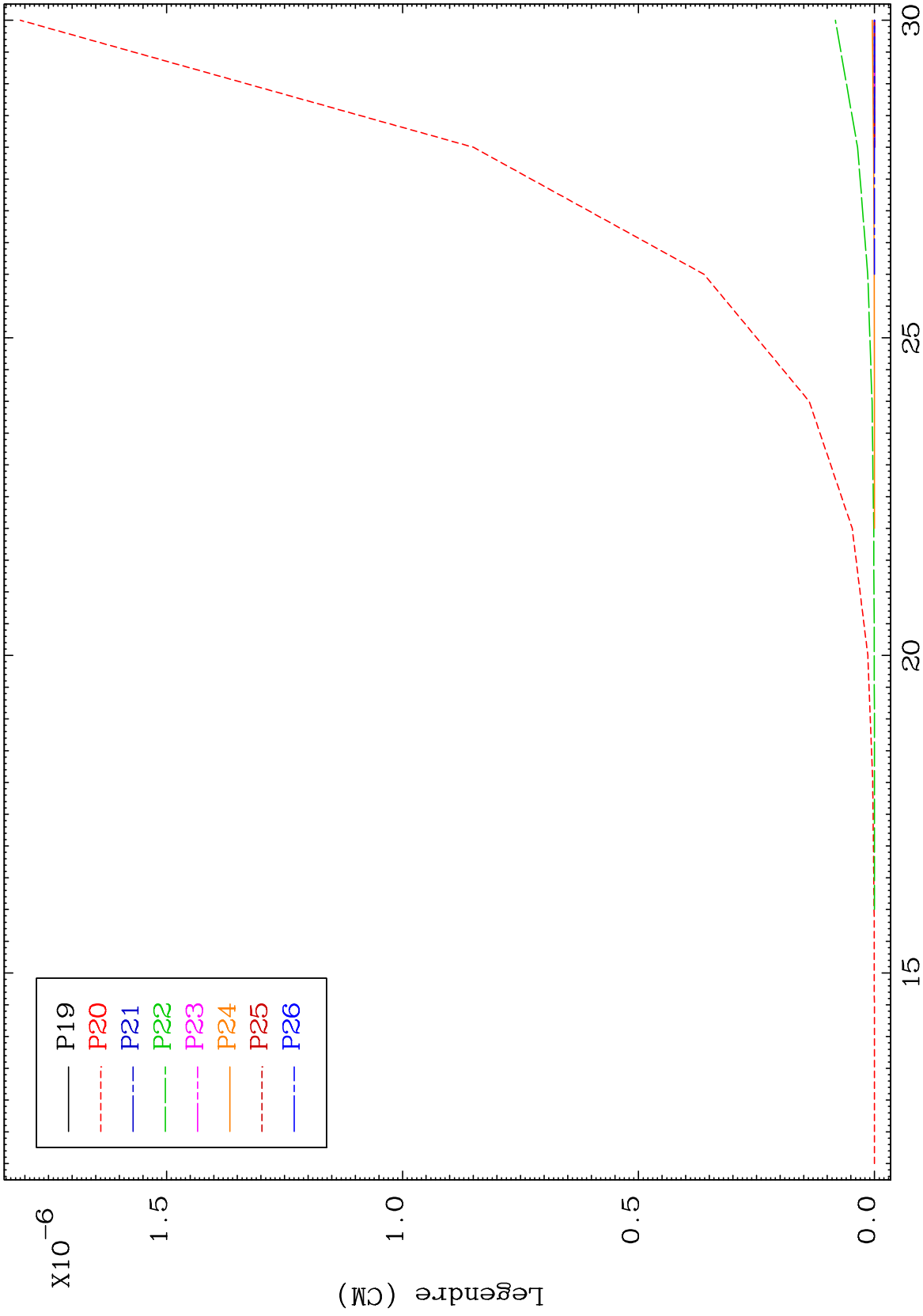
17

56-Ba-137

MAT 5647

Elastic Legendre Coefficients

56-Ba-137



18

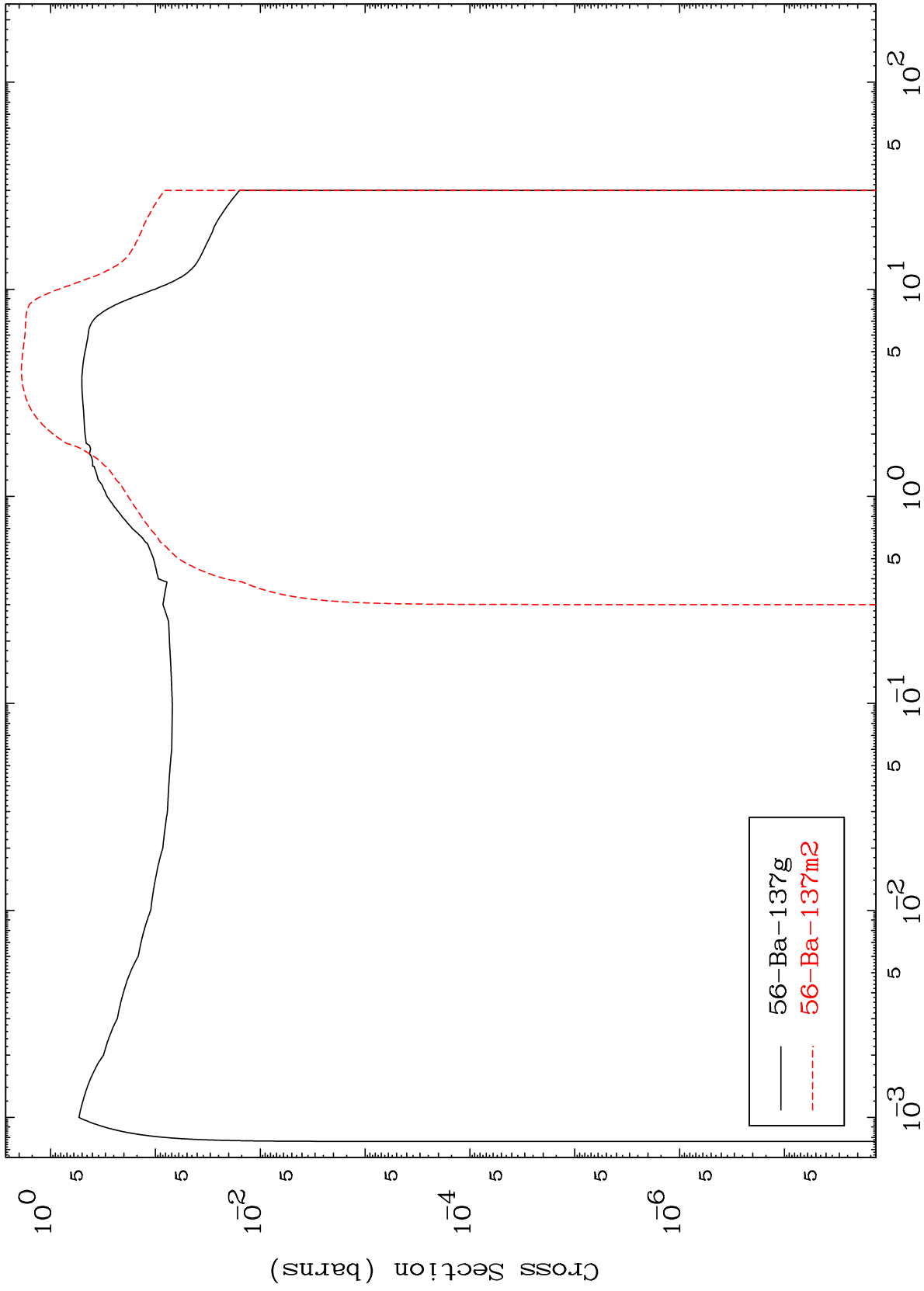
Incident Energy (MeV)

56-Ba-137

MAT 5647

56-Ba-137

### Inelastic Radionuclide Production Cross Section

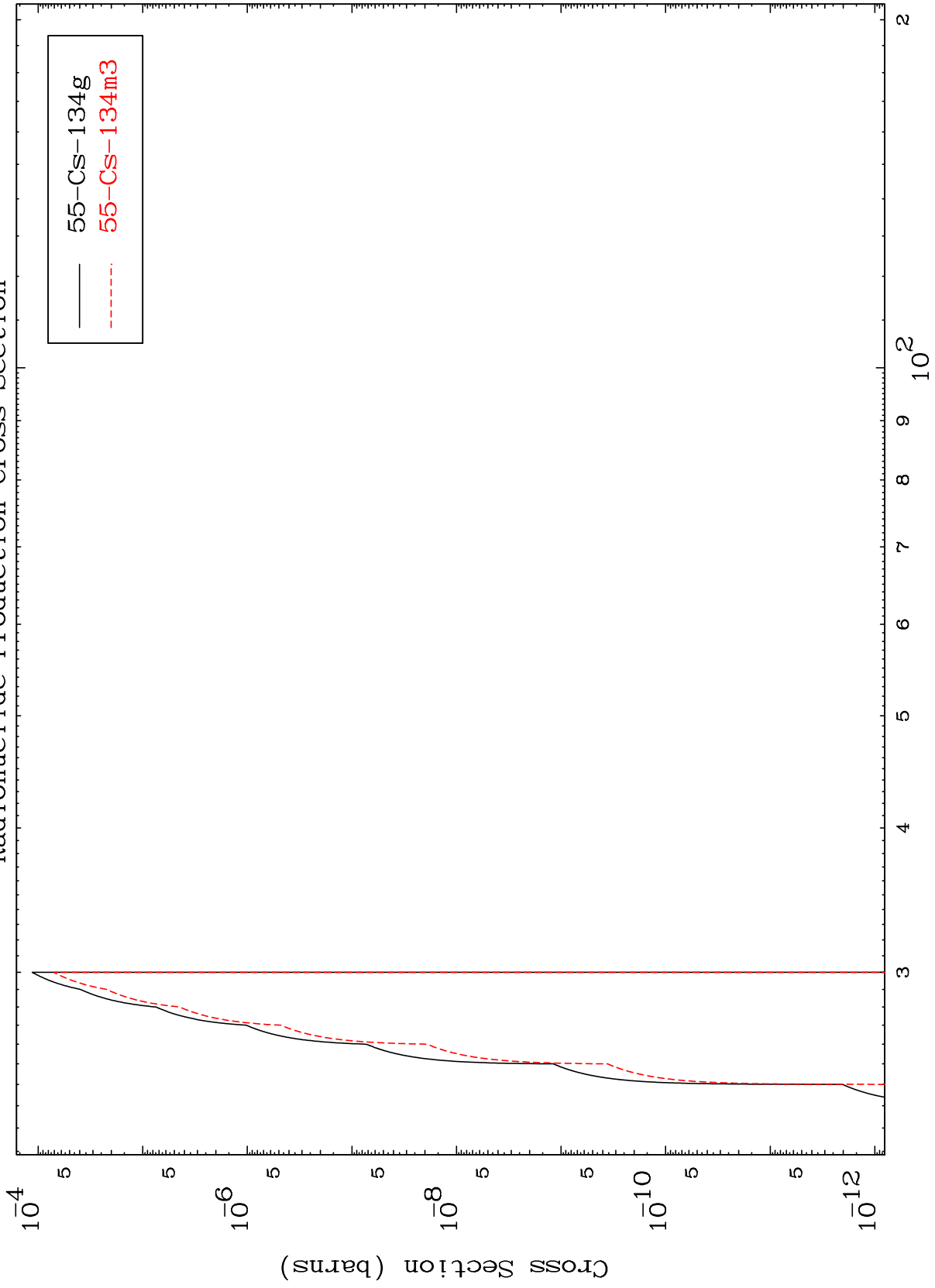


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(n,2n) d

56-Ba-137

Radionuclide Production Cross Section



20

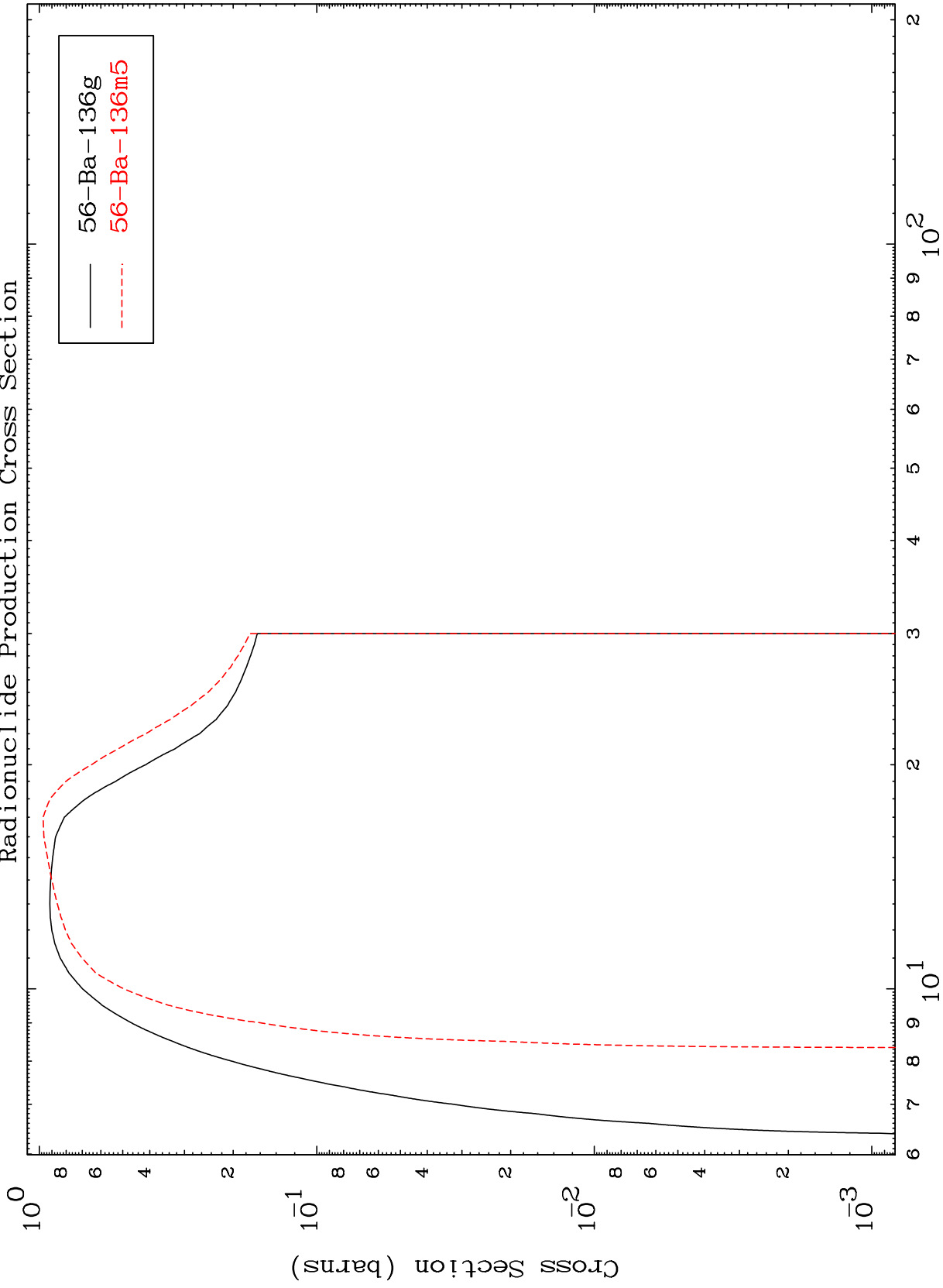
Incident Energy (MeV)

56-Ba-137

MAT 5647

56-Ba-137

(n,2n)  
Radionuclide Production Cross Section



21

Incident Energy (MeV)

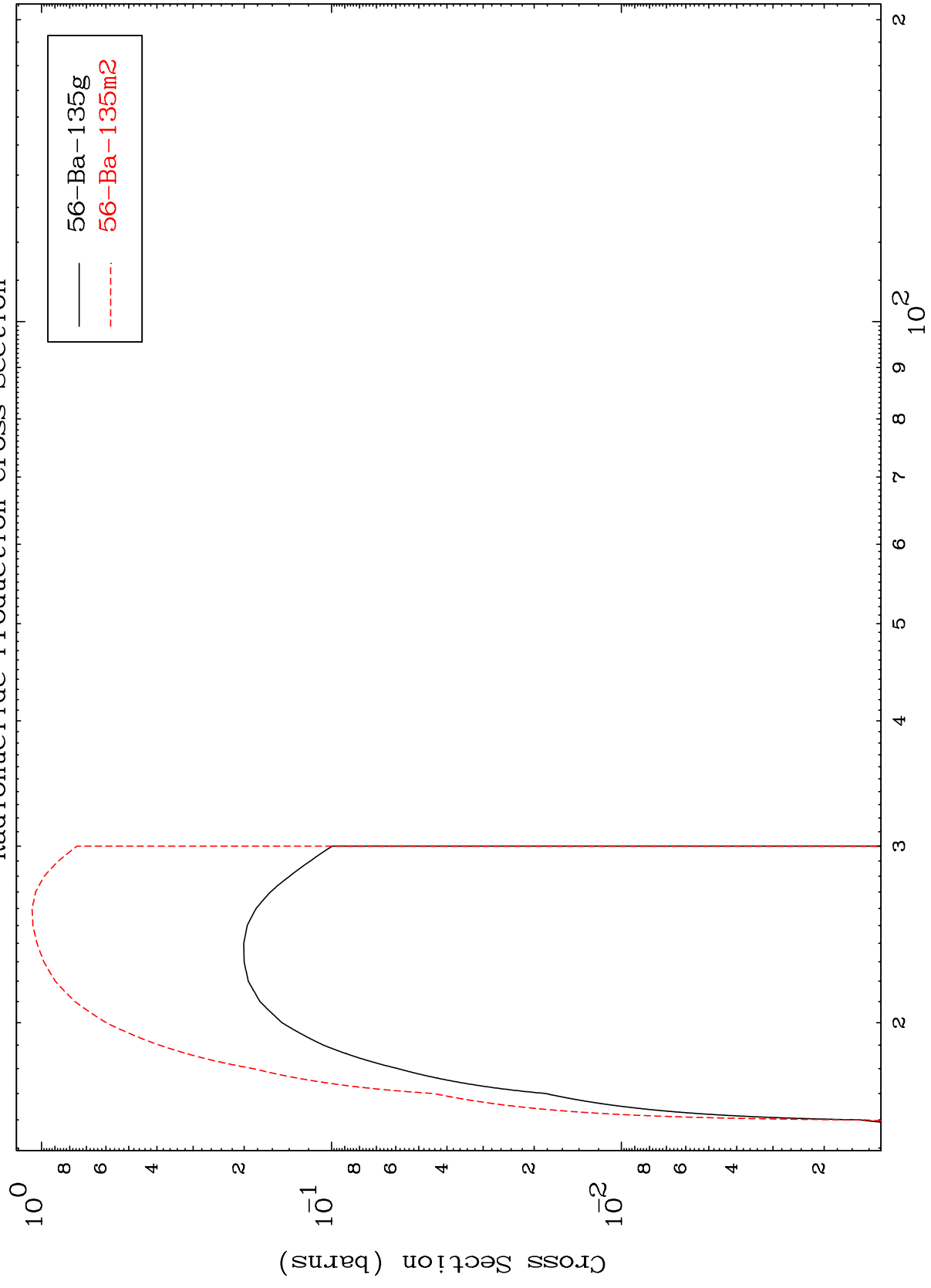
56-Ba-137

MAT 5647

(n,3n)

56-Ba-137

Radionuclide Production Cross Section



22

Incident Energy (MeV)

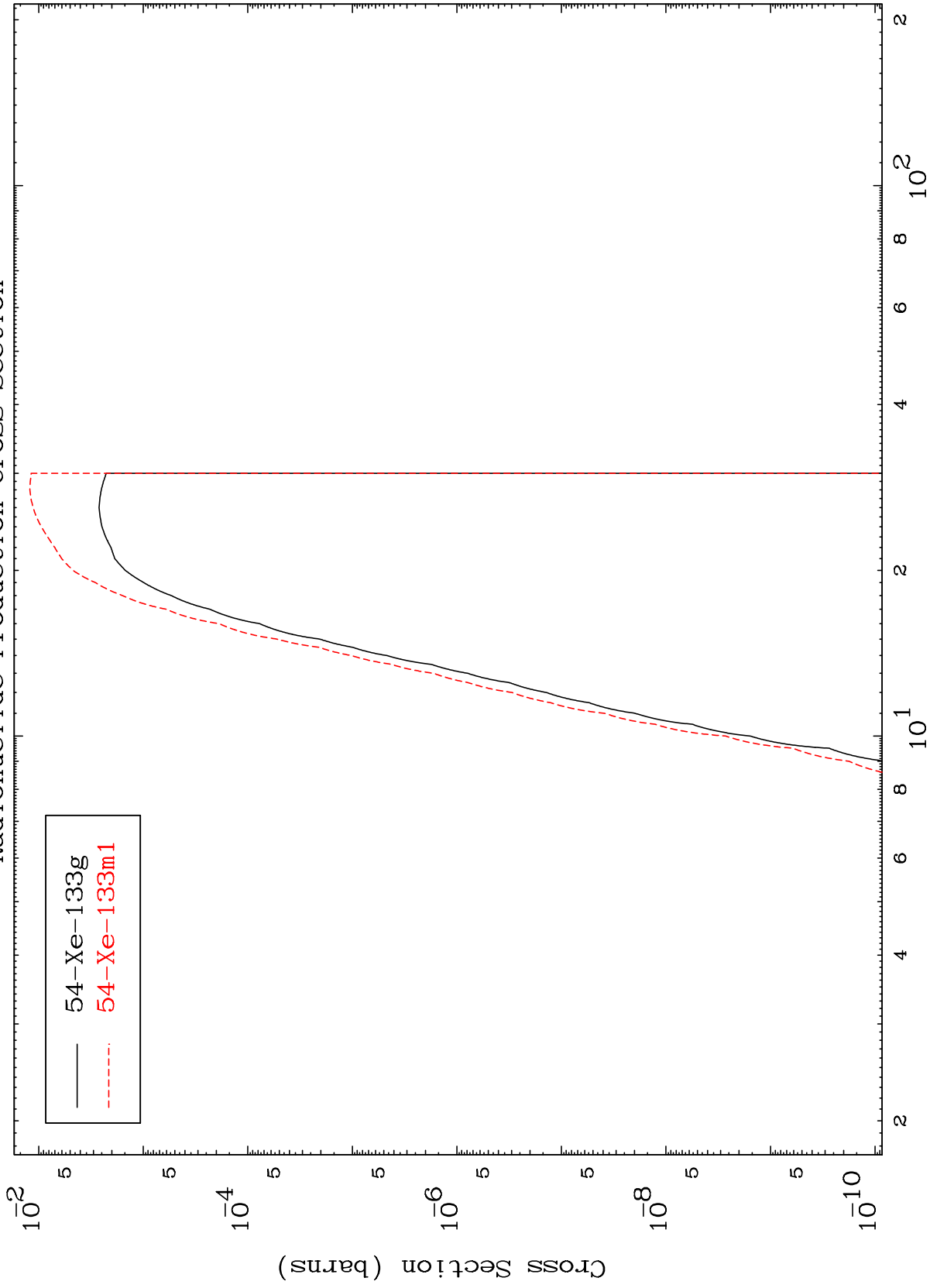
56-Ba-137

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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

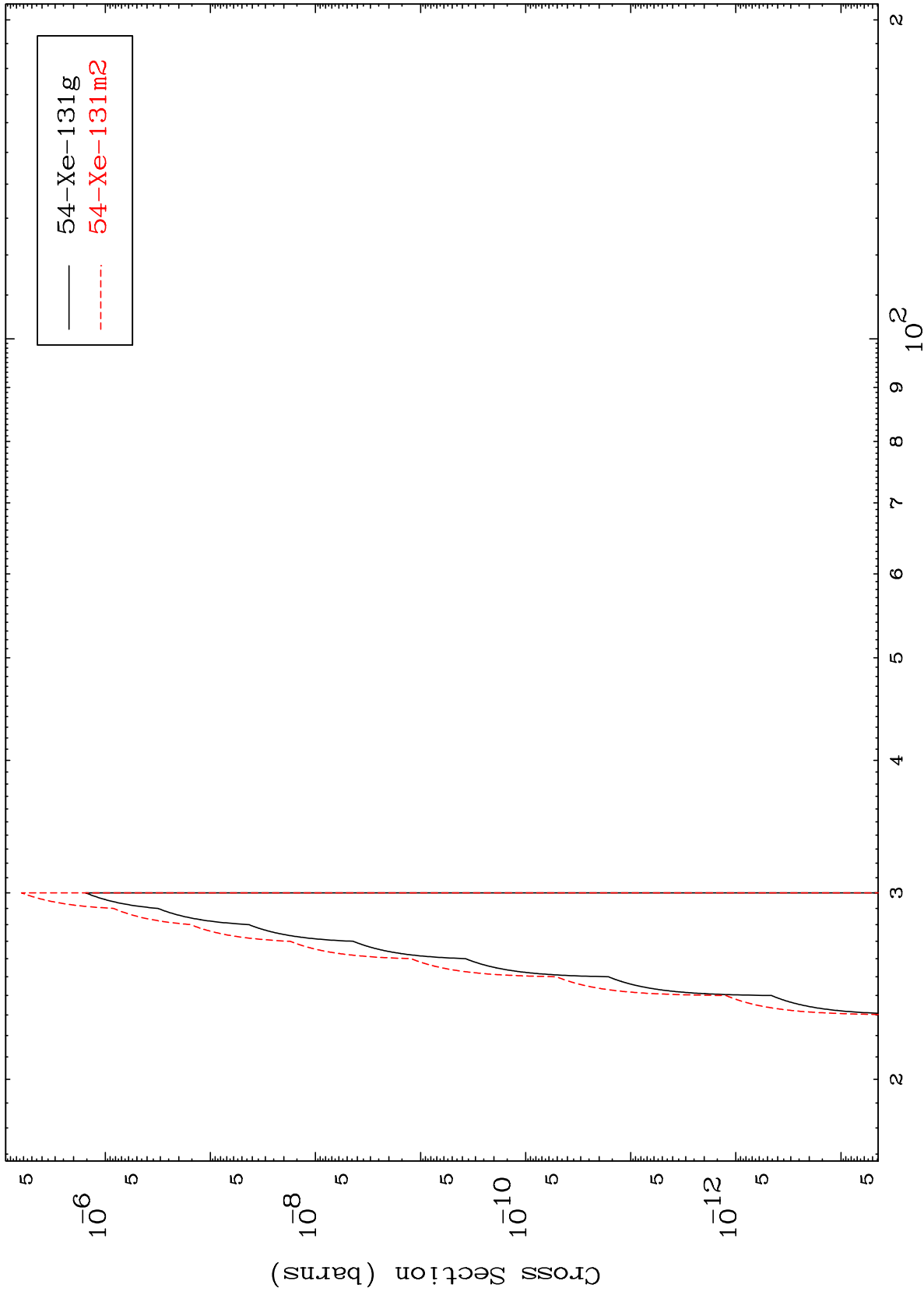


MAT 5647

(n,3n)  $\alpha$

56-Ba-137

Radionuclide Production Cross Section



24

Incident Energy (MeV)

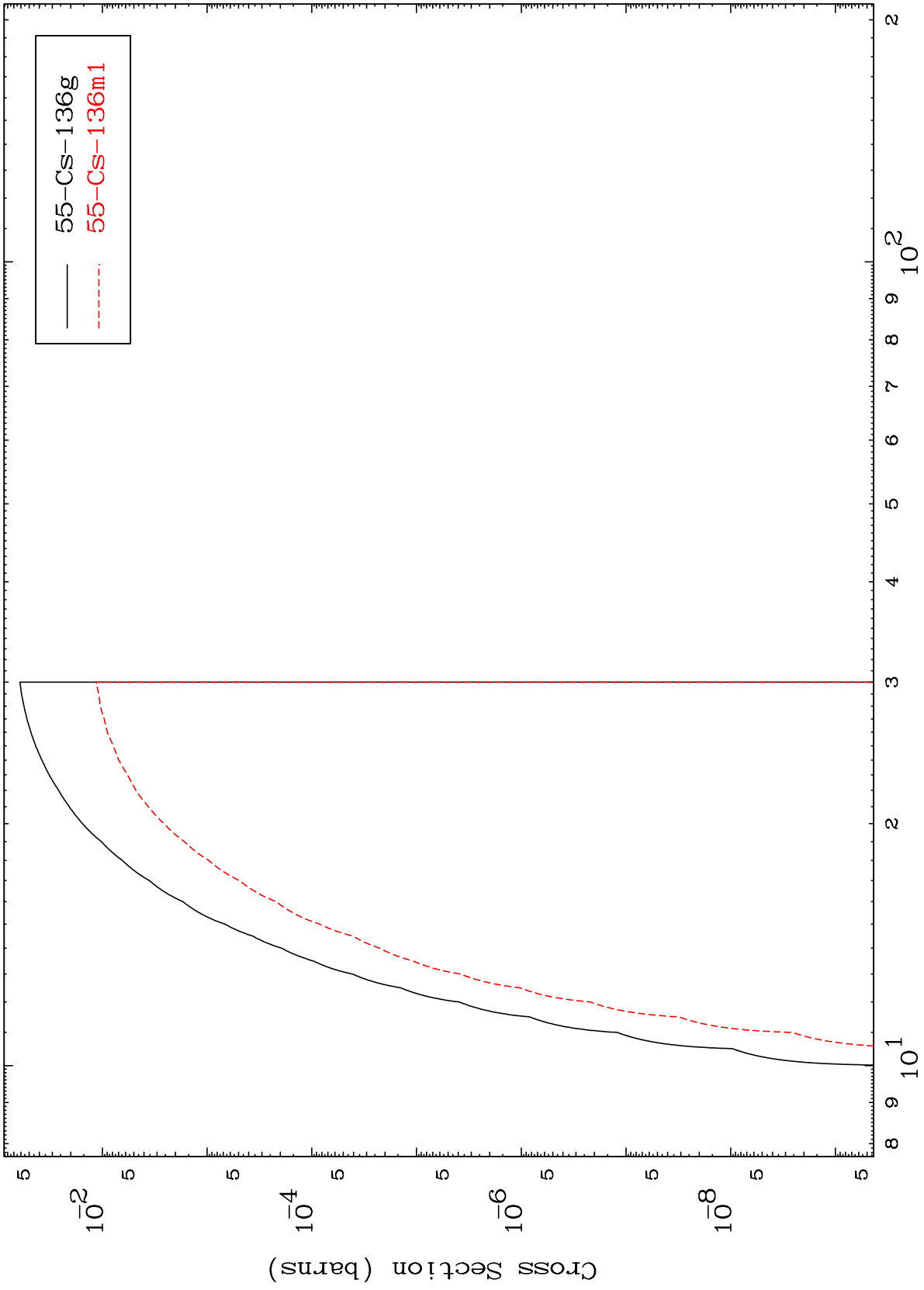
56-Ba-137

MAT 5647

(n,n') p

56-Ba-137

Radionuclide Production Cross Section



25

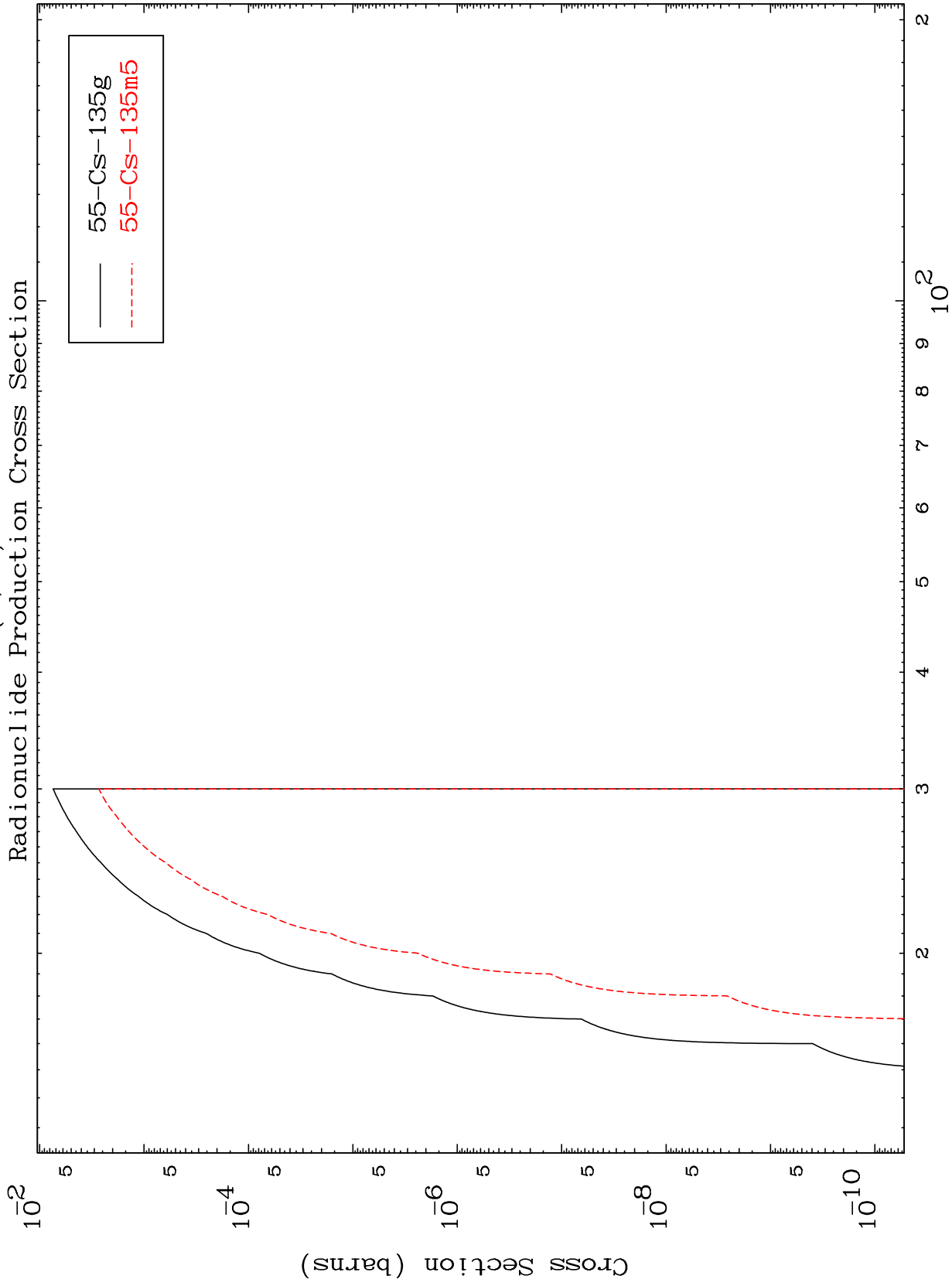
Incident Energy (MeV)

56-Ba-137

MAT 5647

(n,n') d

56-Ba-137



26

Incident Energy (MeV)

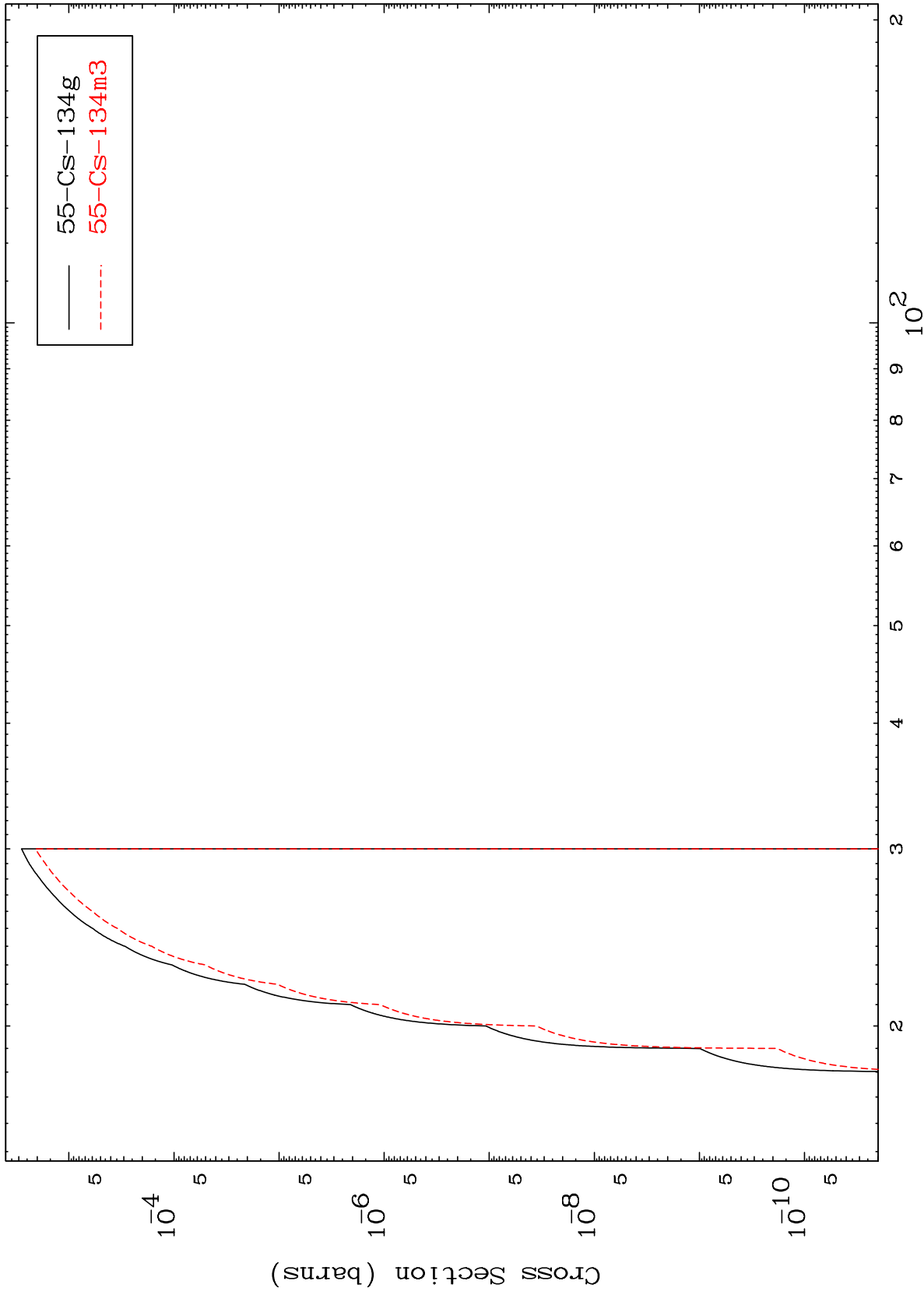
56-Ba-137

MAT 5647

(n,n') t

56-Ba-137

Radionuclide Production Cross Section



27

Incident Energy (MeV)

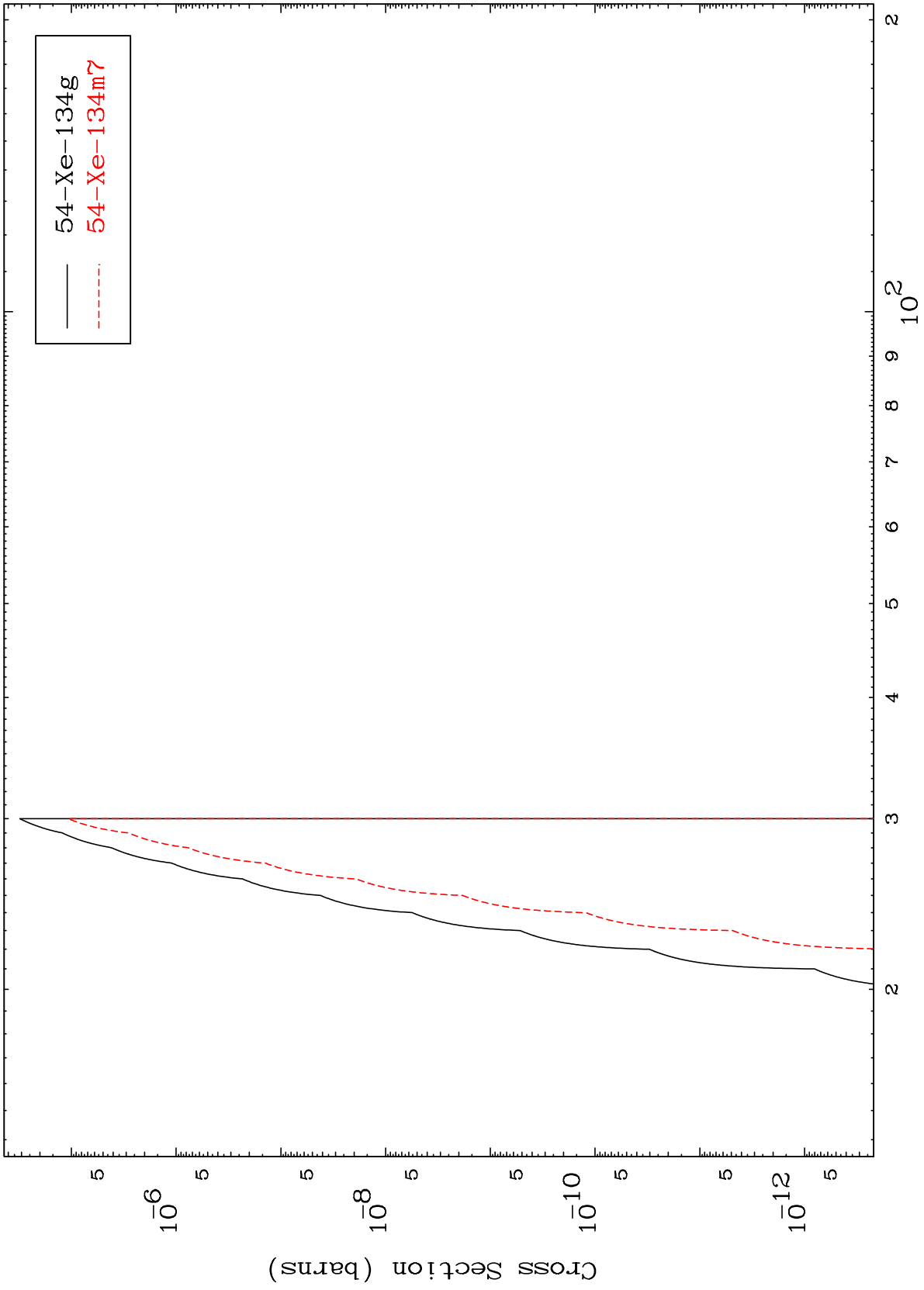
56-Ba-137

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(n, n') He-3

56-Ba-137

Radionuclide Production Cross Section



28

Incident Energy (MeV)

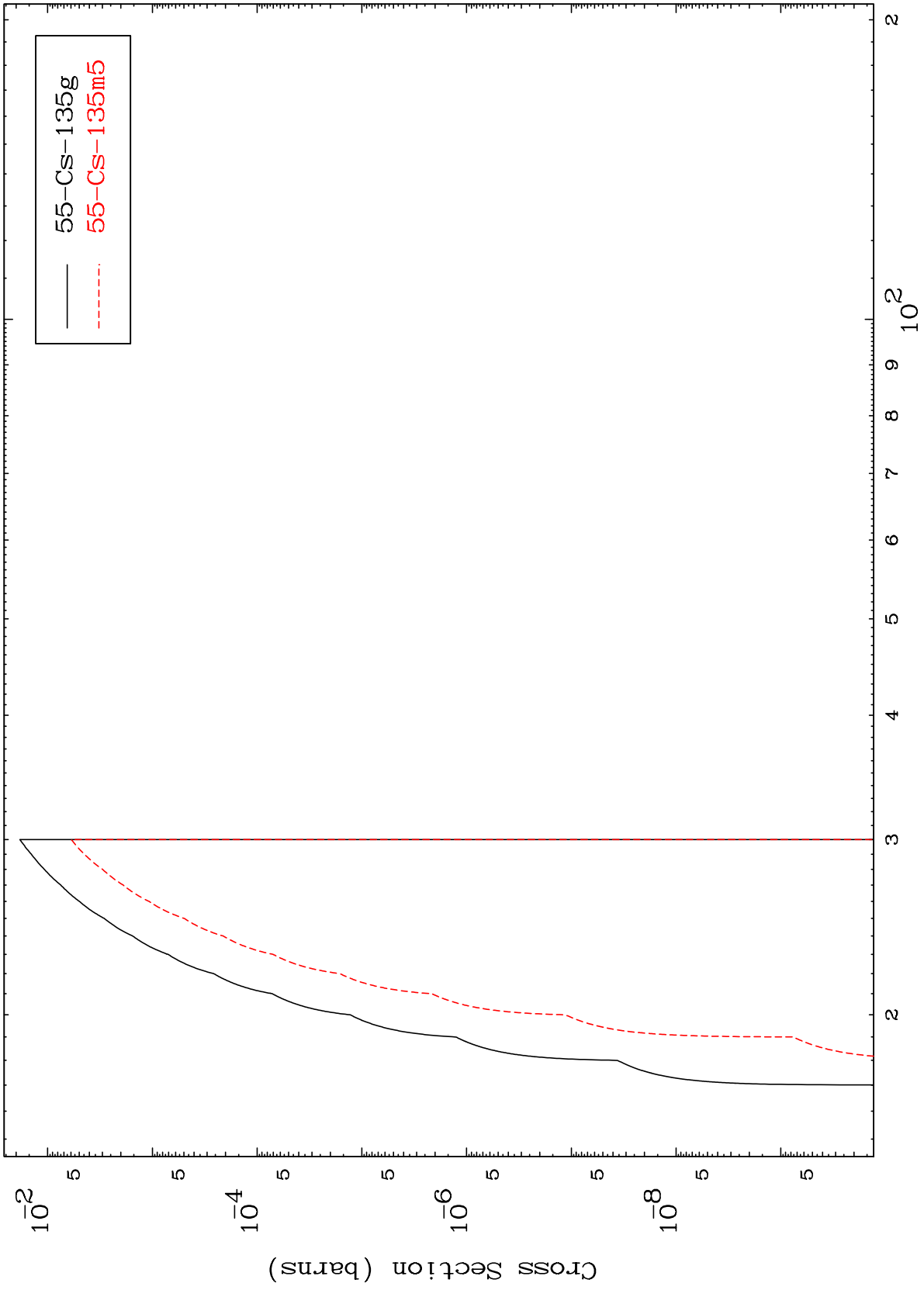
56-Ba-137

MAT 5647

(n,2n) p

56-Ba-137

Radionuclide Production Cross Section



29

Incident Energy (MeV)

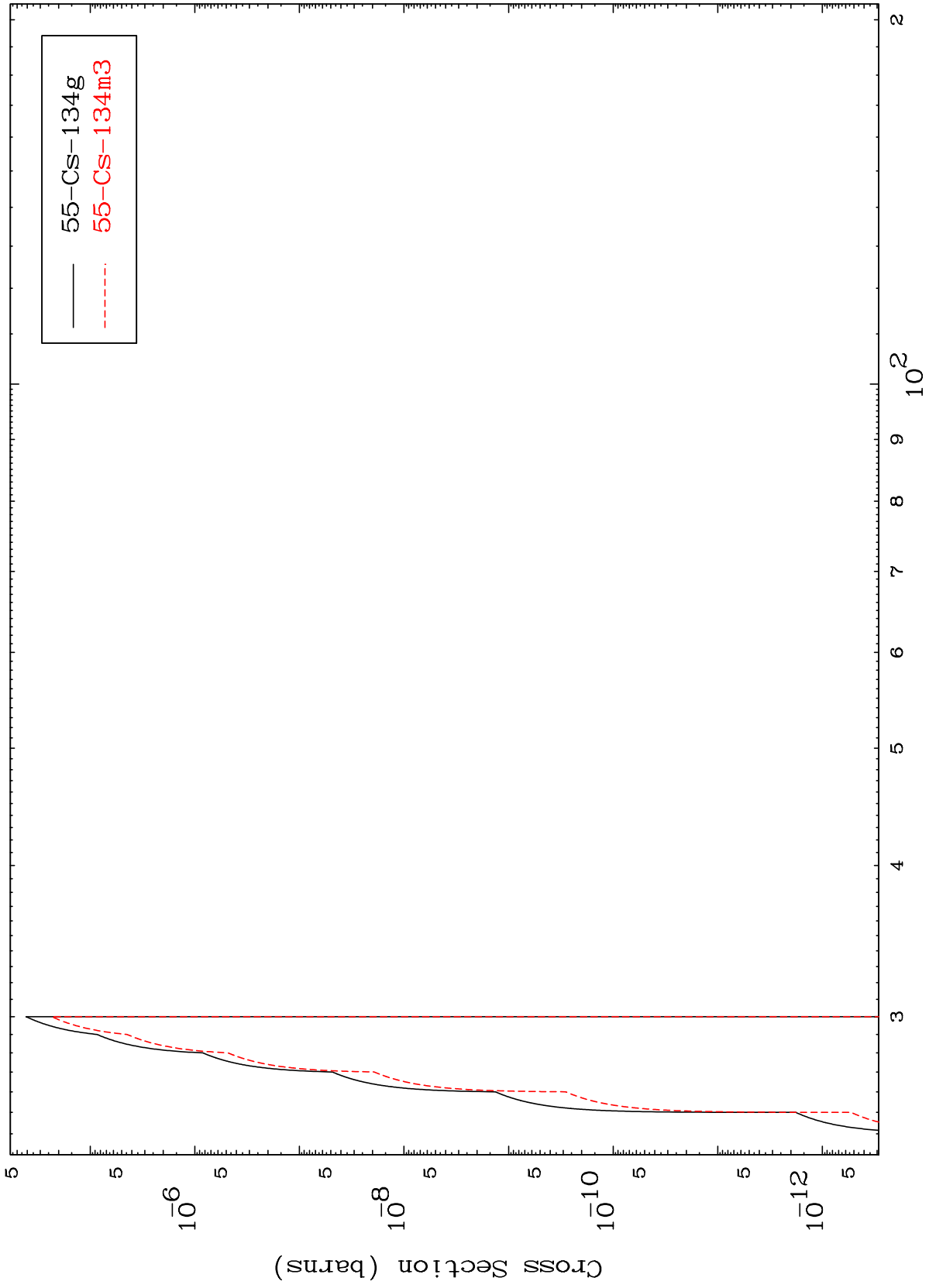
56-Ba-137

MAT 5647

(n,3n) p

56-Ba-137

Radionuclide Production Cross Section



30

Incident Energy (MeV)

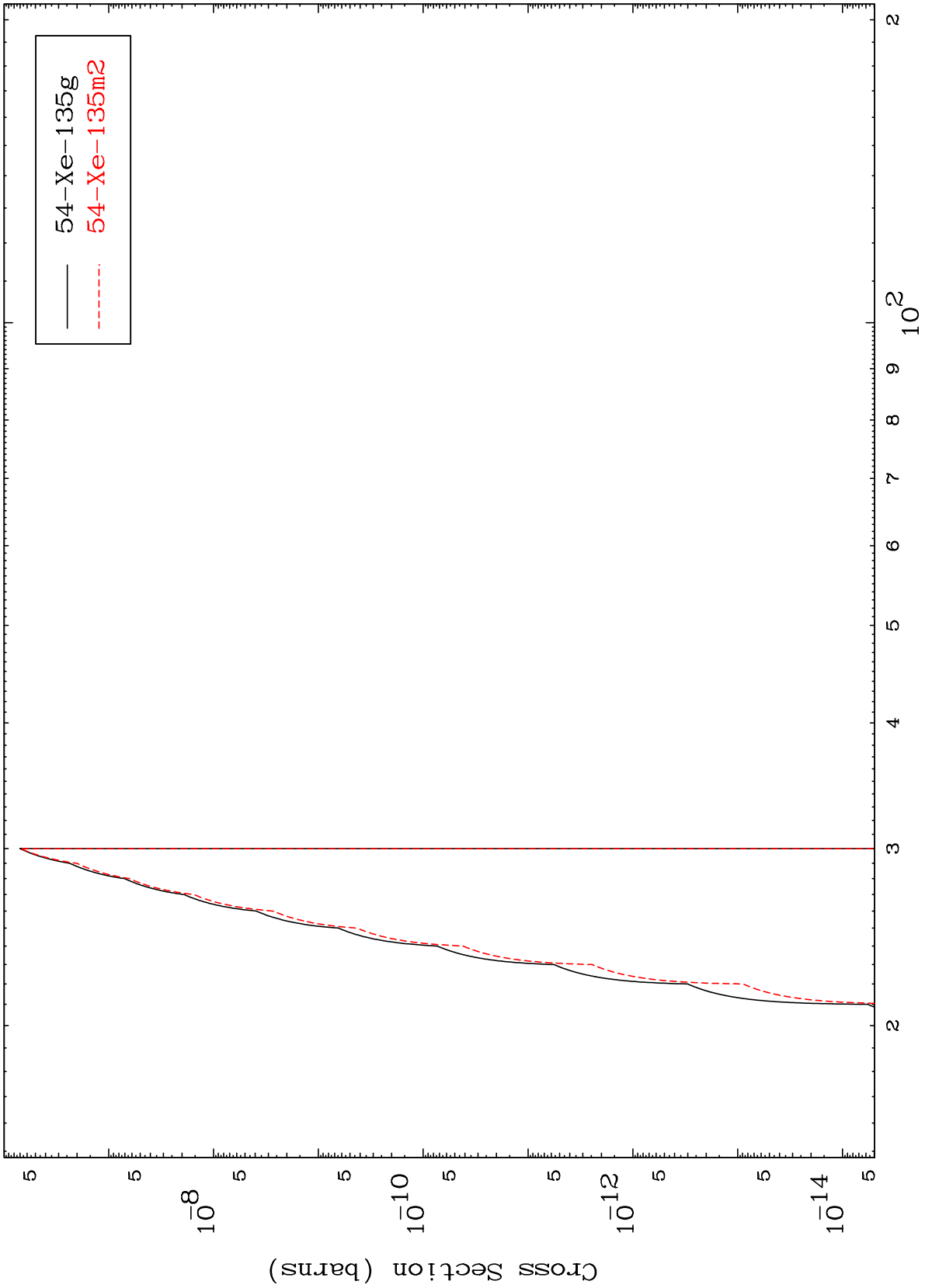
56-Ba-137

MAT 5647

(n,2n) p

56-Ba-137

Radionuclide Production Cross Section



31

Incident Energy (MeV)

56-Ba-137

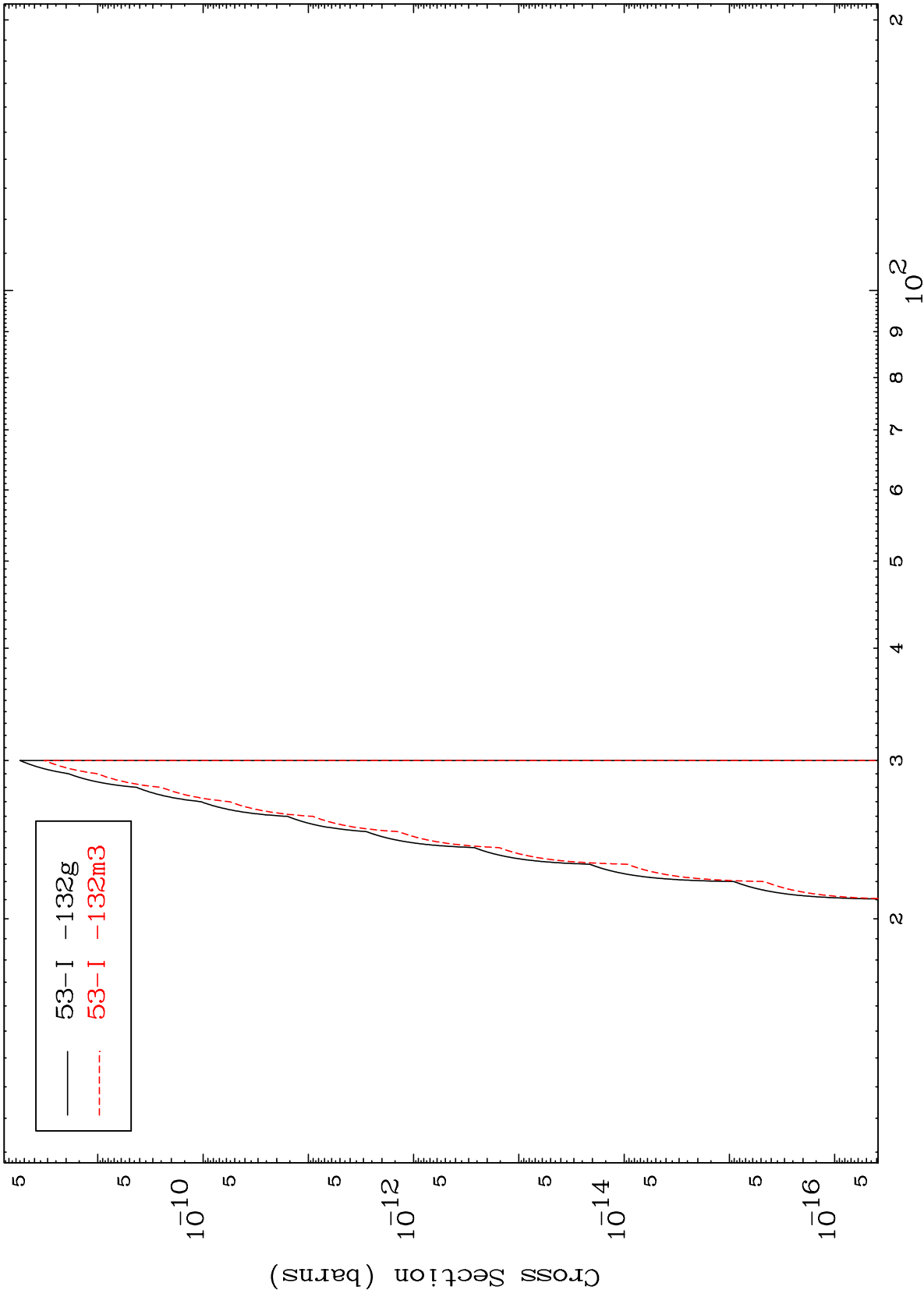


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(n,n') p  $\alpha$

56-Ba-137

Radionuclide Production Cross Section



32

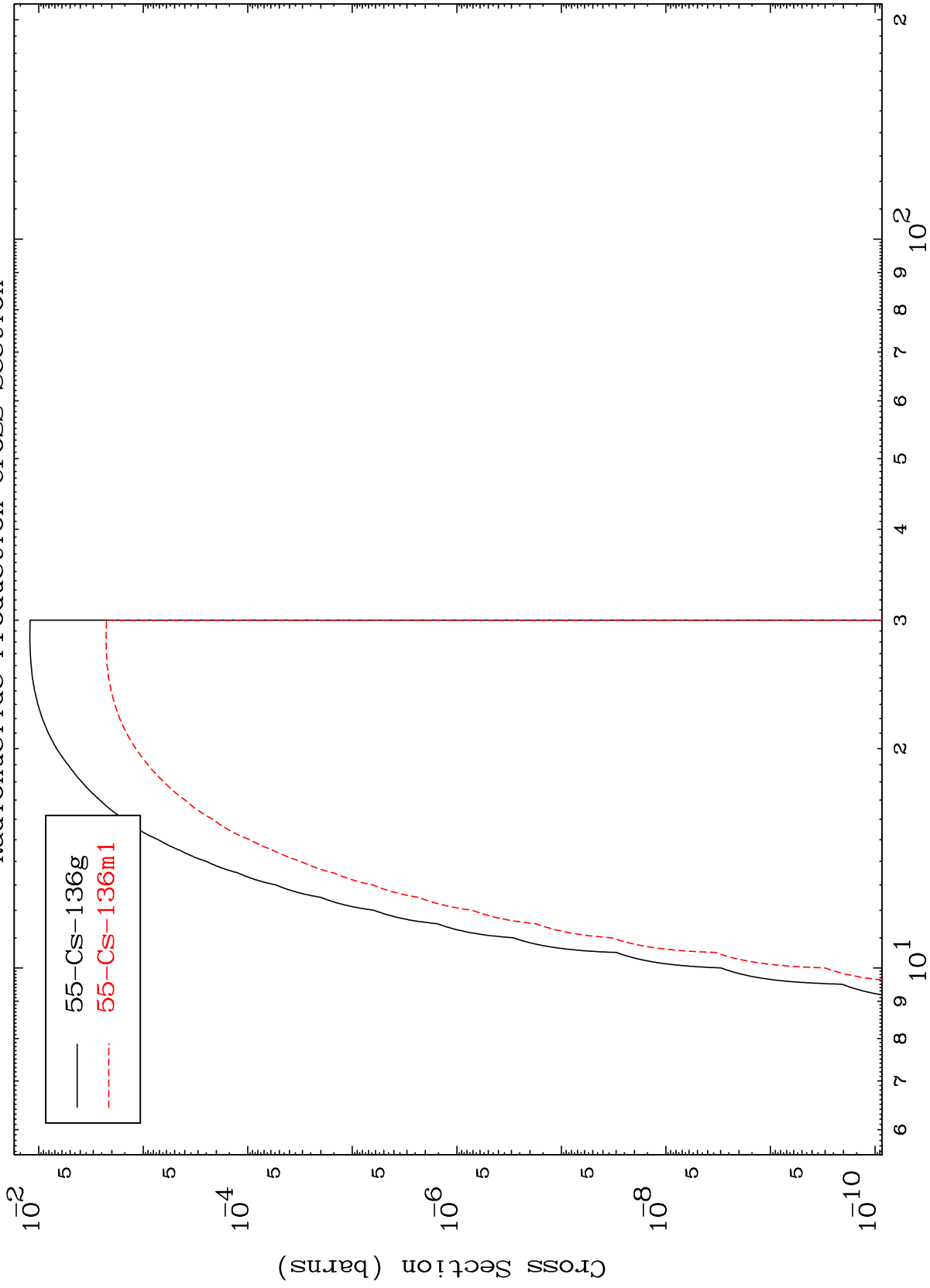
Incident Energy (MeV)

56-Ba-137

MAT 5647

Radionuclide Production Cross Section  
(n,d)

<sup>56</sup>Ba-137



33

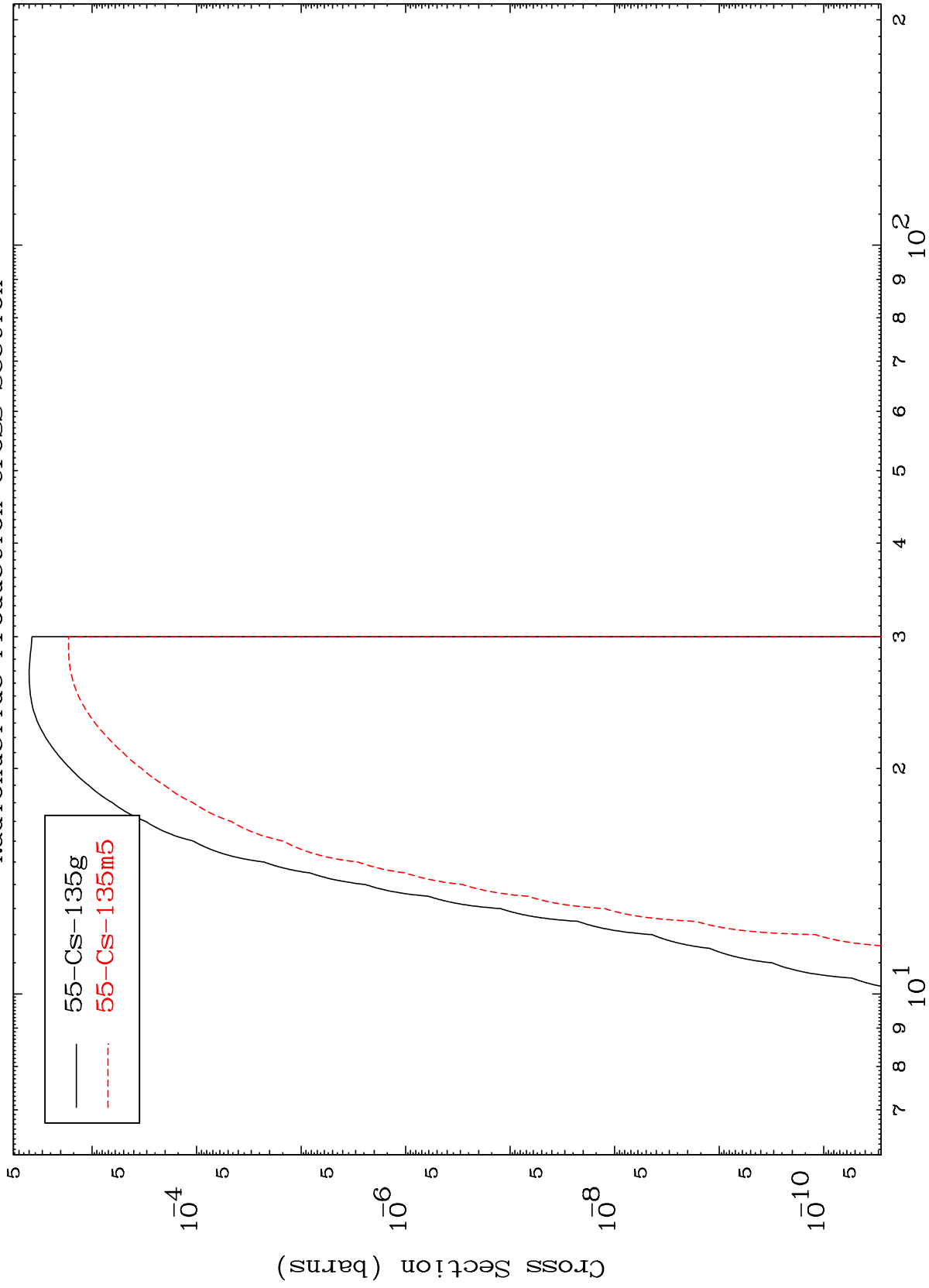
Incident Energy (MeV)

<sup>56</sup>Ba-137

MAT 5647

56-Ba-137

Radionuclide Production Cross Section



34

Incident Energy (MeV)

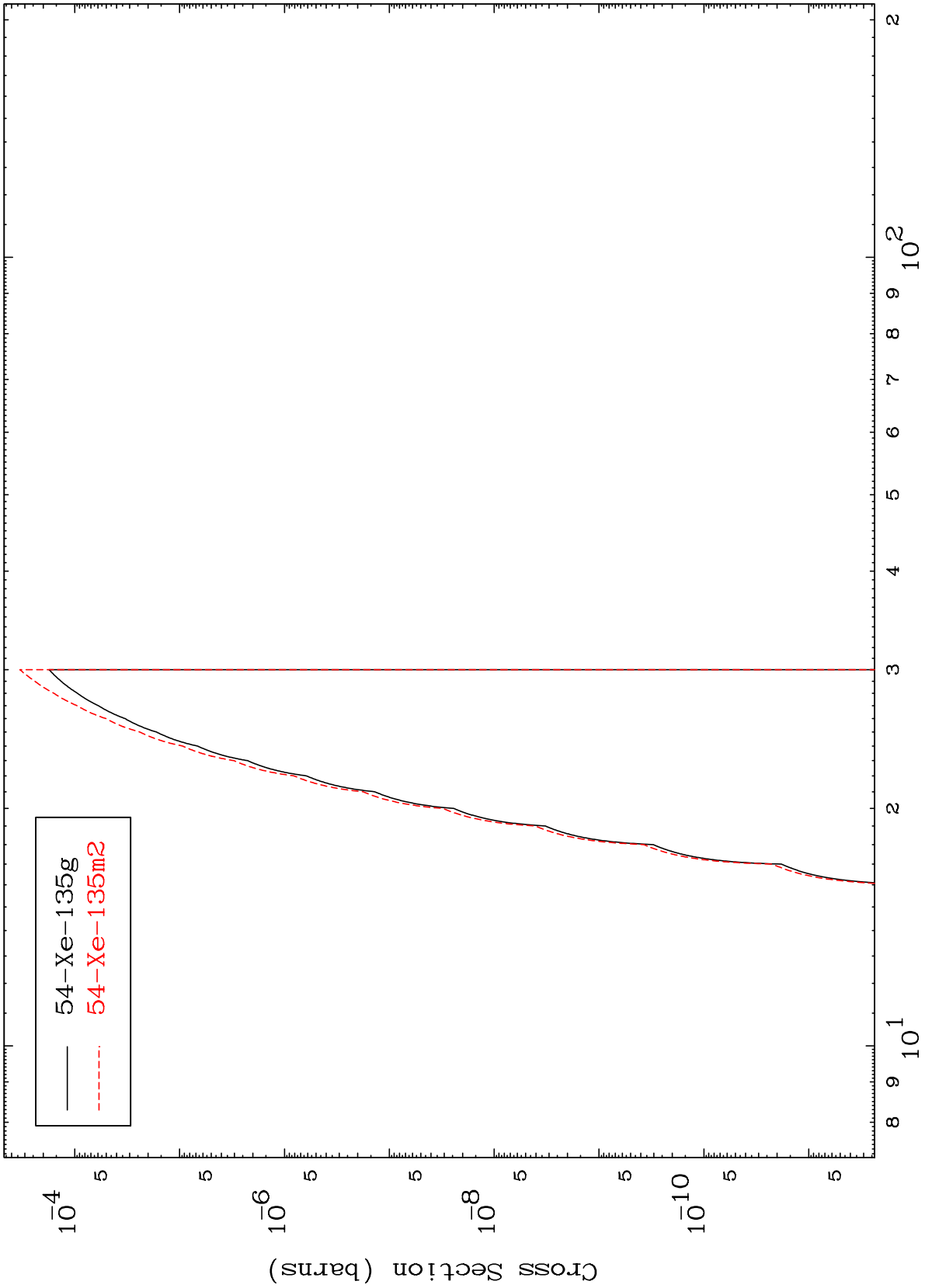
56-Ba-137

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(n, He-3)

56-Ba-137

Radionuclide Production Cross Section



35

Incident Energy (MeV)

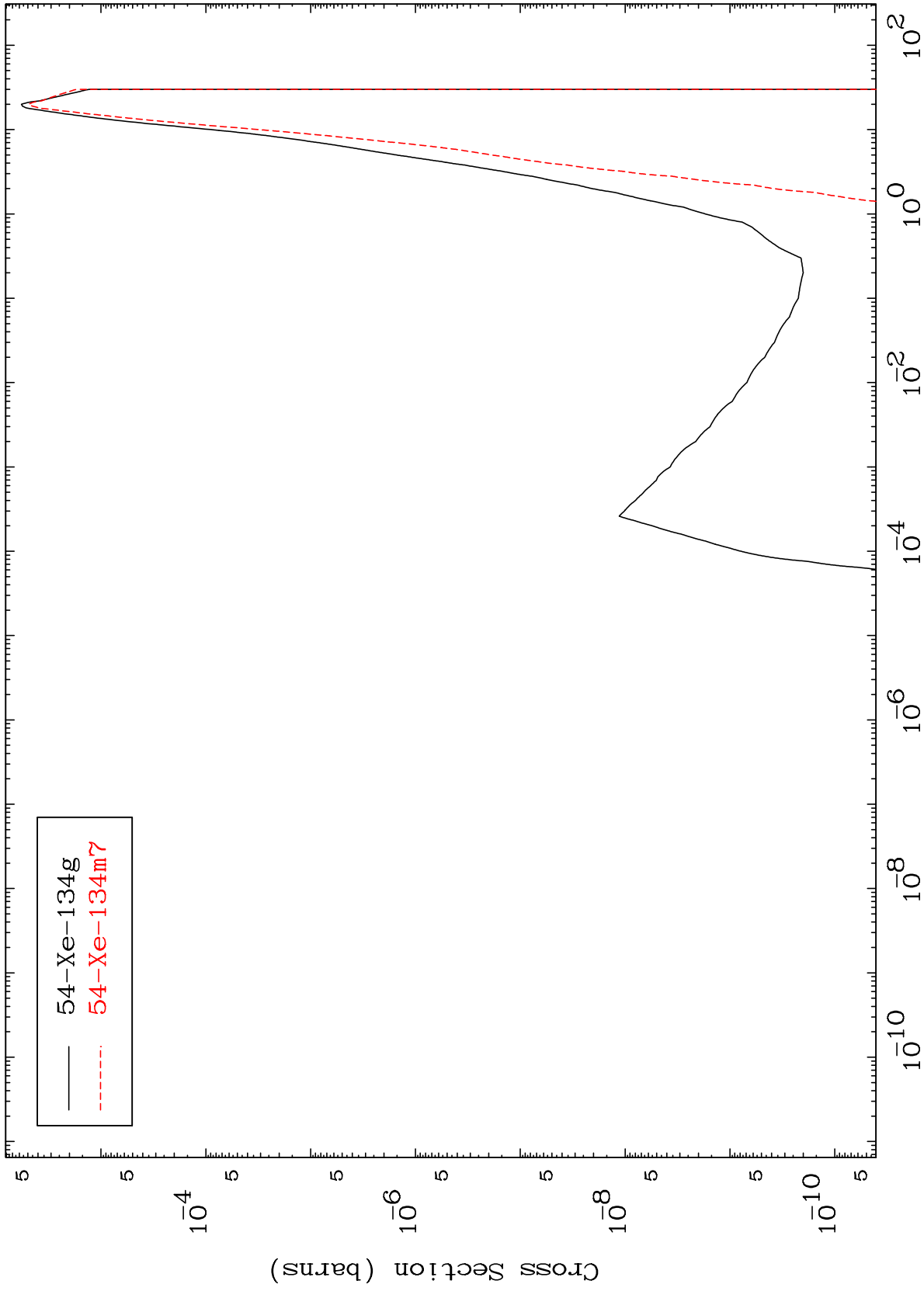
56-Ba-137

MAT 5647

(n,  $\alpha$ )

56-Ba-137

Radionuclide Production Cross Section



36

Incident Energy (MeV)

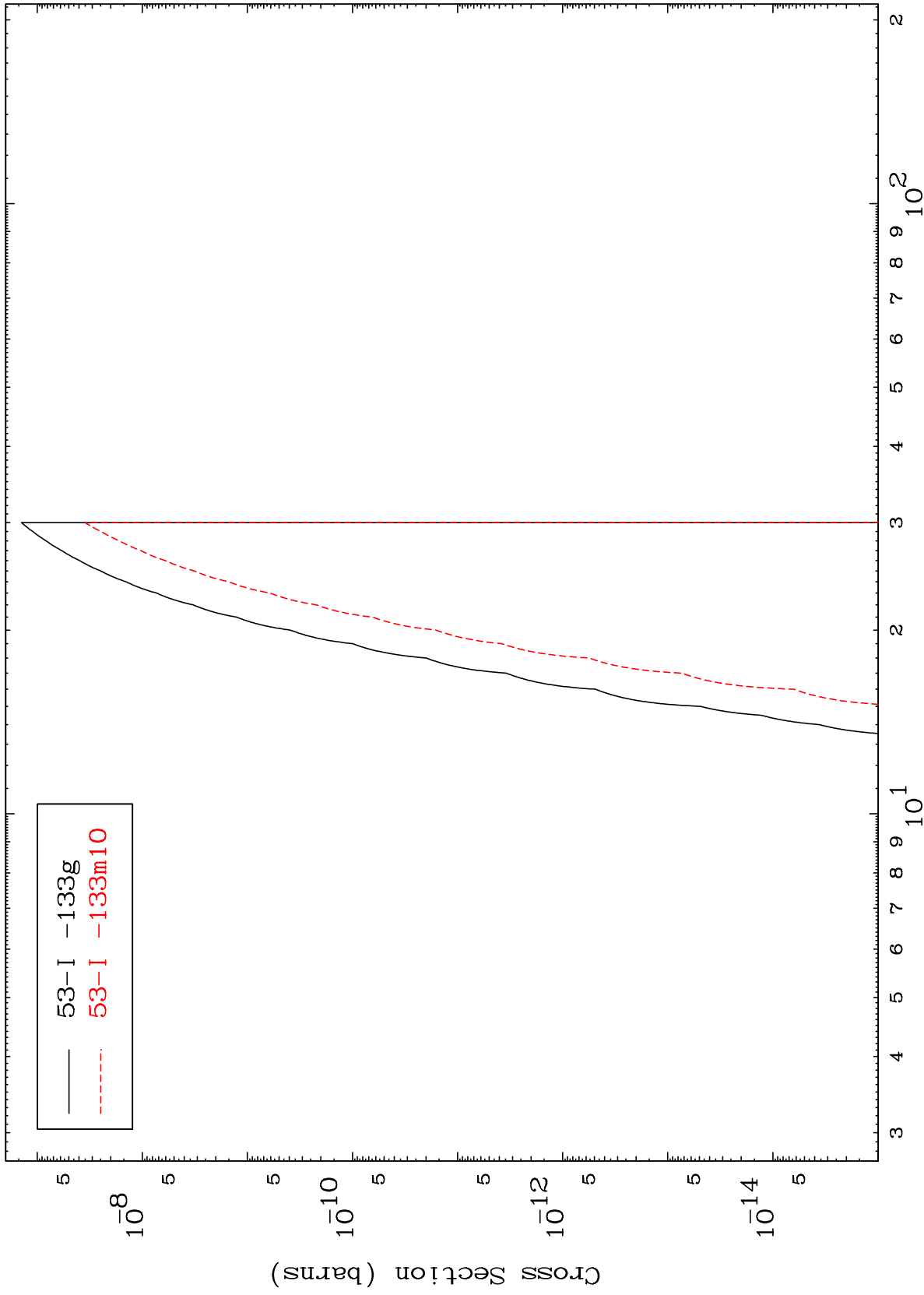
56-Ba-137

MAT 5647

(n,p)  $\alpha$

56-Ba-137

Radionuclide Production Cross Section



37

Incident Energy (MeV)

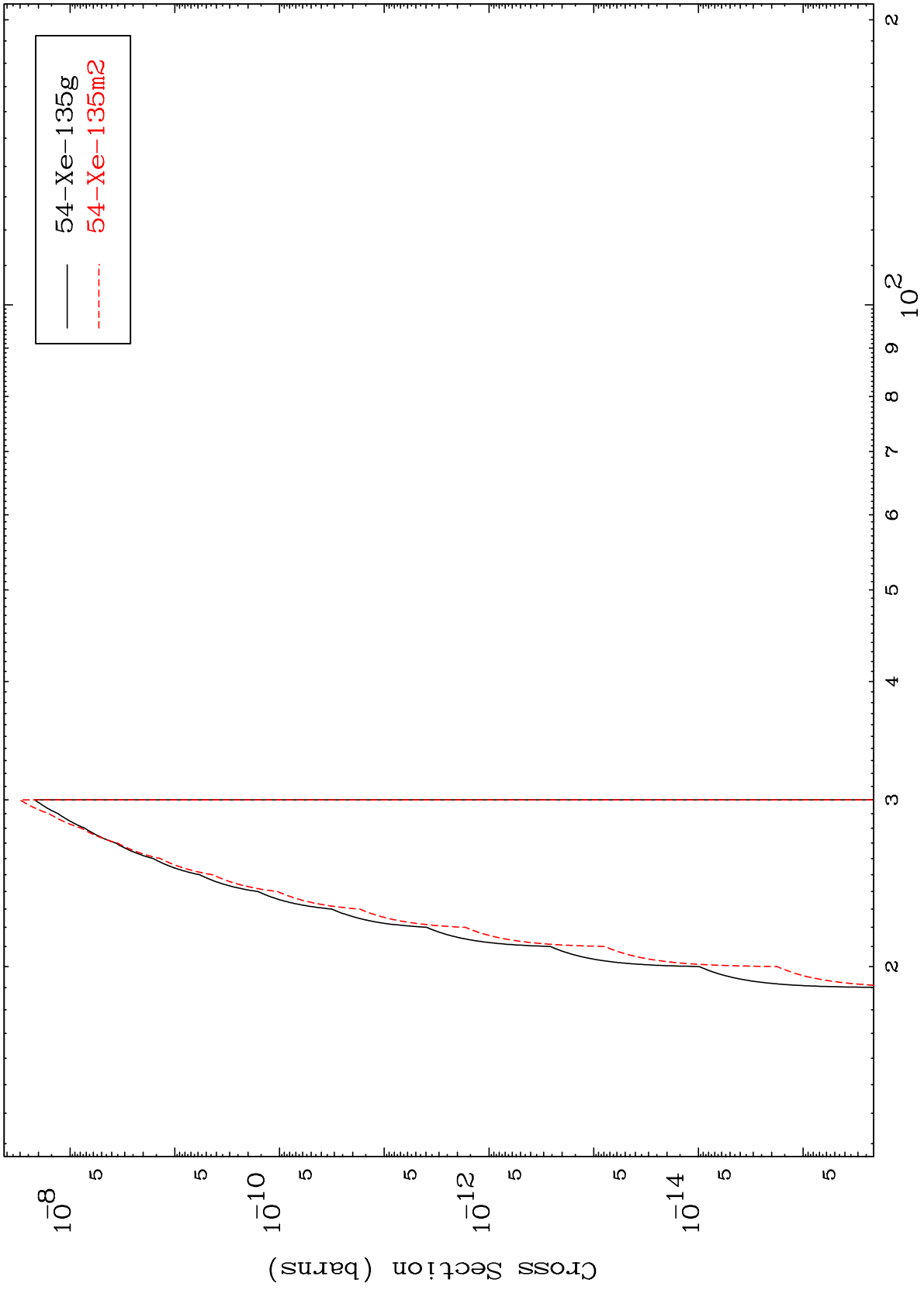
56-Ba-137

MAT 5647

(n,p) d

56-Ba-137

Radionuclide Production Cross Section



38

Incident Energy (MeV)

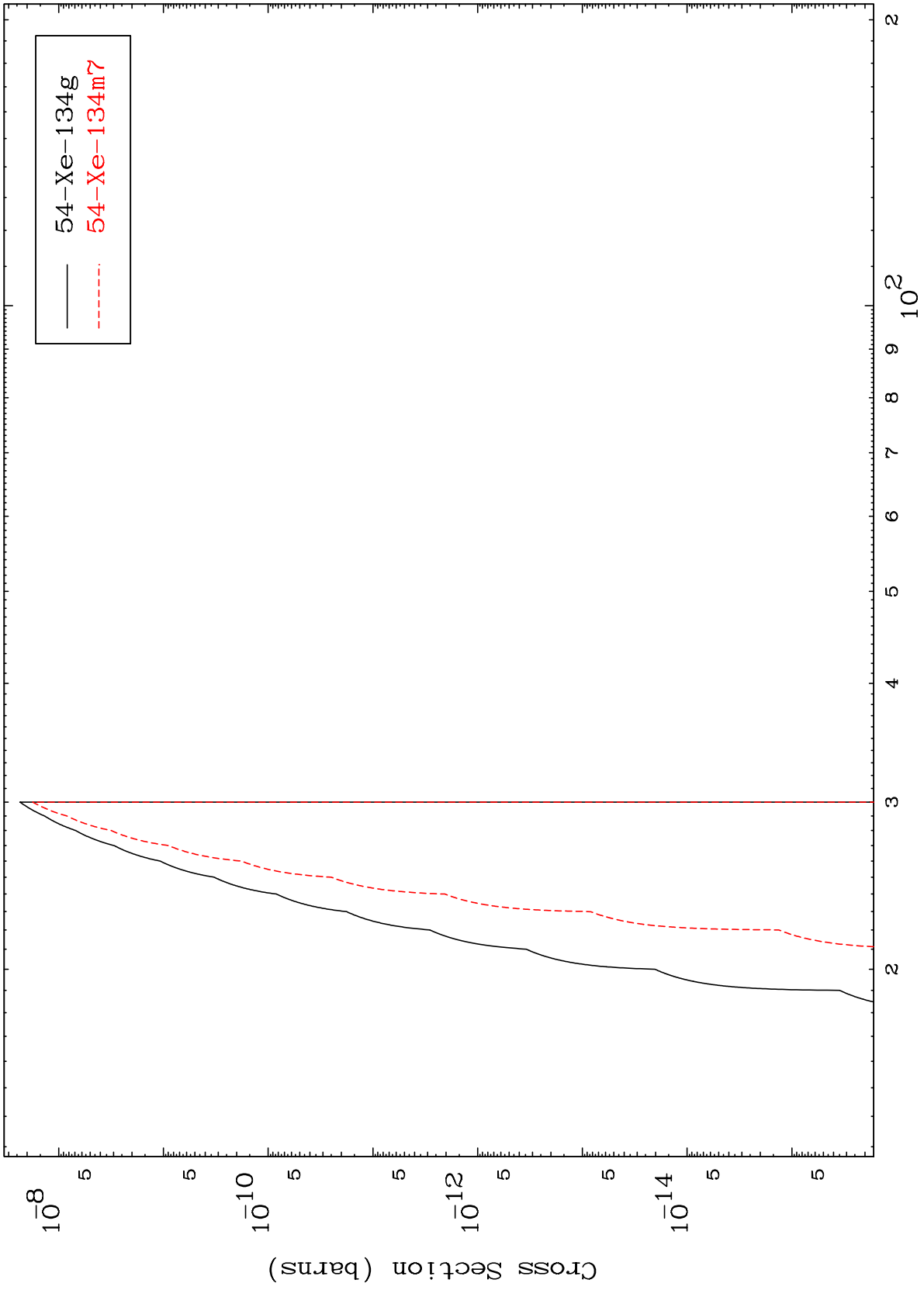
56-Ba-137

MAT 5647

(n,p) t

56-Ba-137

Radionuclide Production Cross Section



39

Incident Energy (MeV)

56-Ba-137

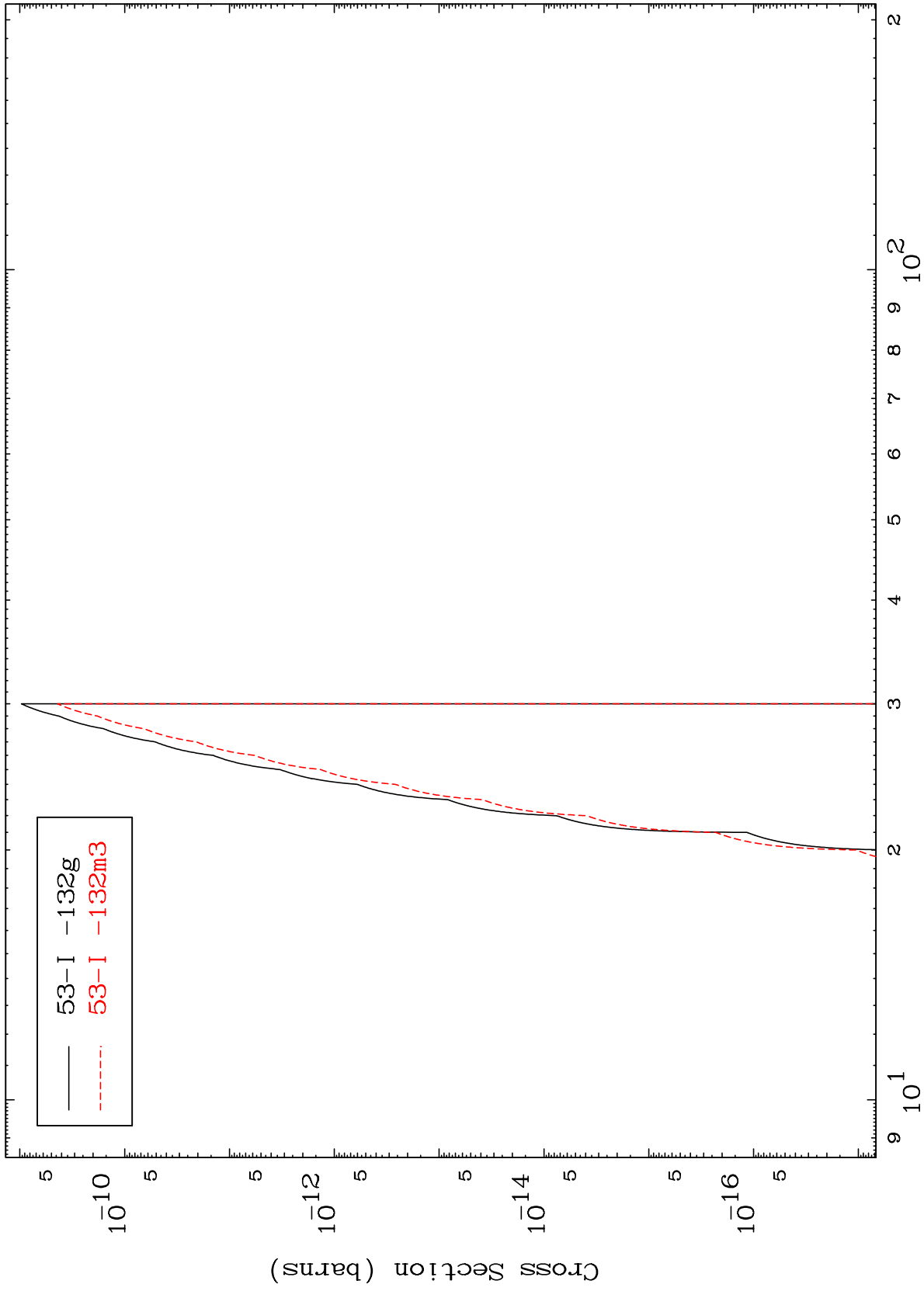


MAT 5647

(n,d)  $\alpha$

56-Ba-137

Radionuclide Production Cross Section



53-I-132g  
53-I-132m3