

Program EVALPLOT
(Version 2017-1)

by

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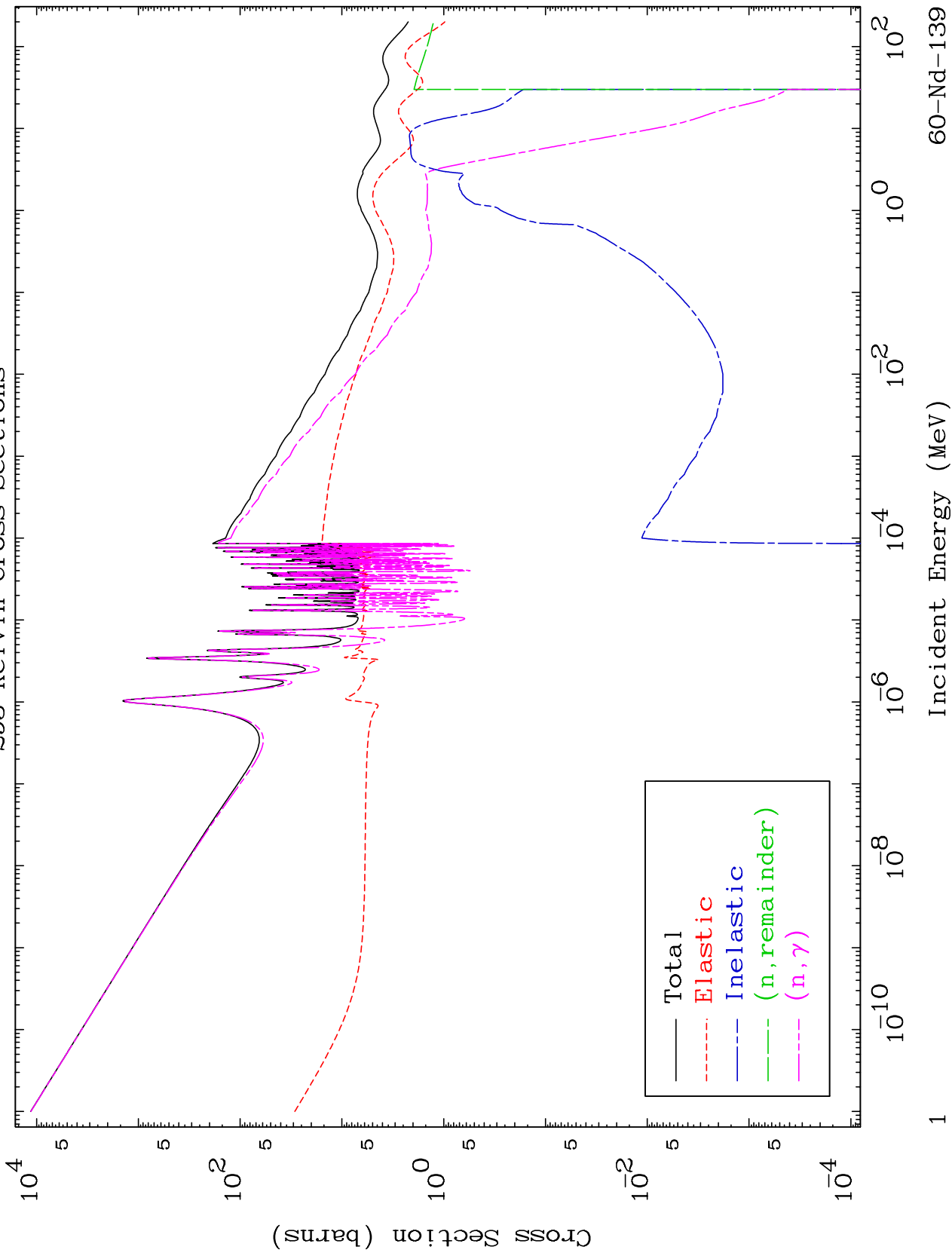
Press Mouse Button to Start

MAT 6017

Major

293 Kelvin Cross Sections

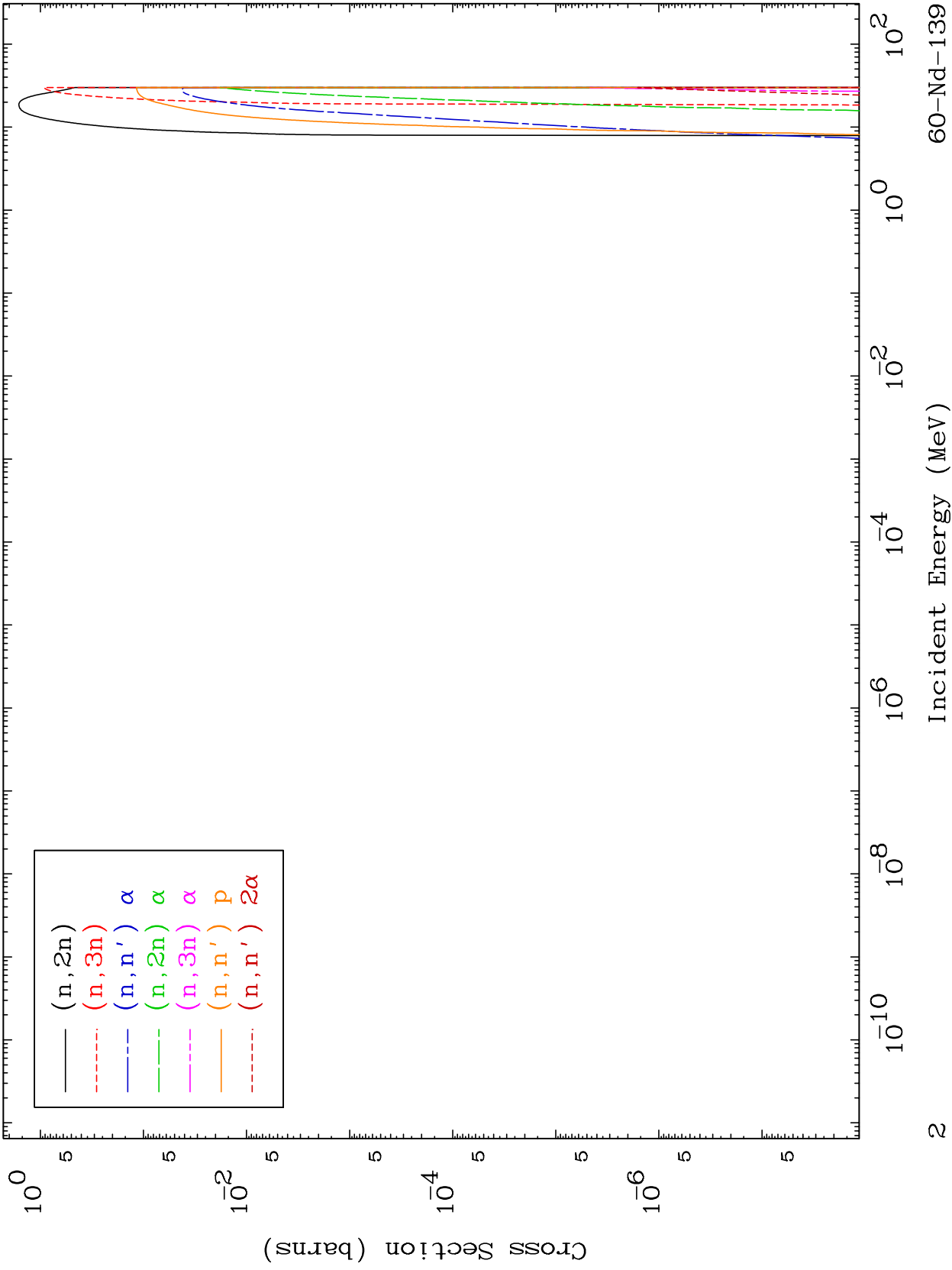
60-Nd-139



MAT 6017

Neutron Production
293 Kelvin Cross Sections

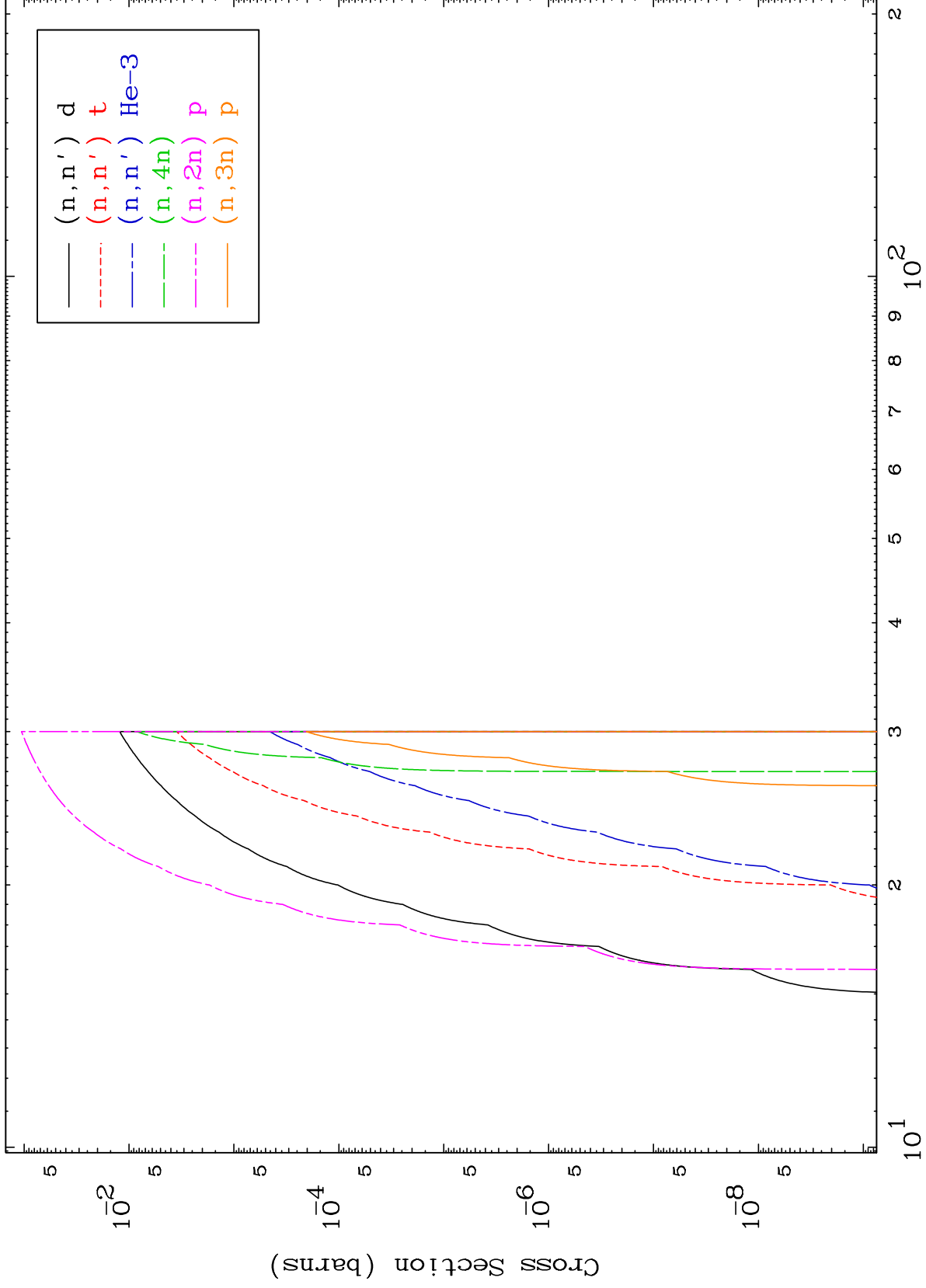
60-Nd-139



MAT 6017

Neutron Production
293 Kelvin Cross Sections

60-Nd-139



60-Nd-139

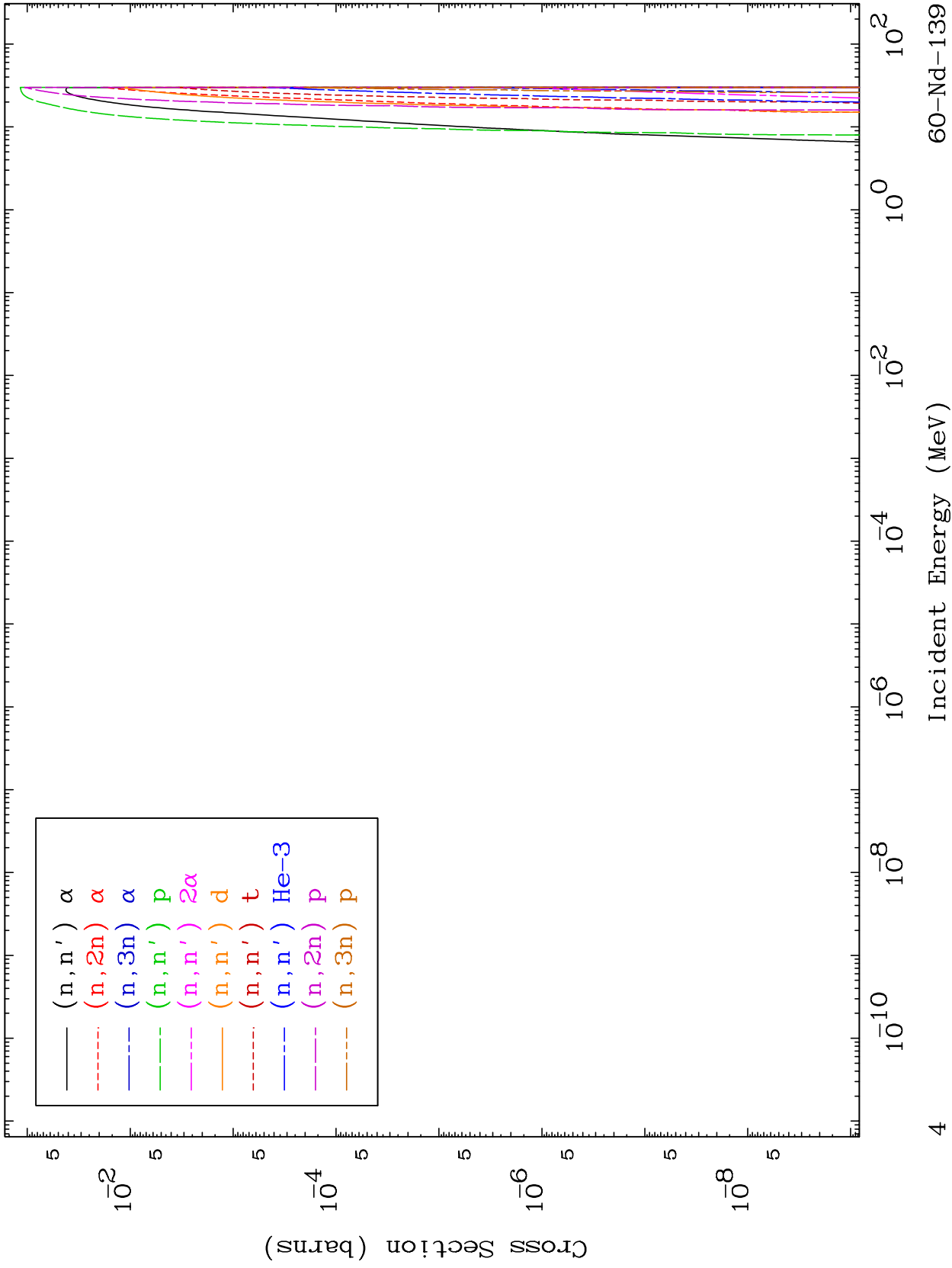
Incident Energy (MeV)

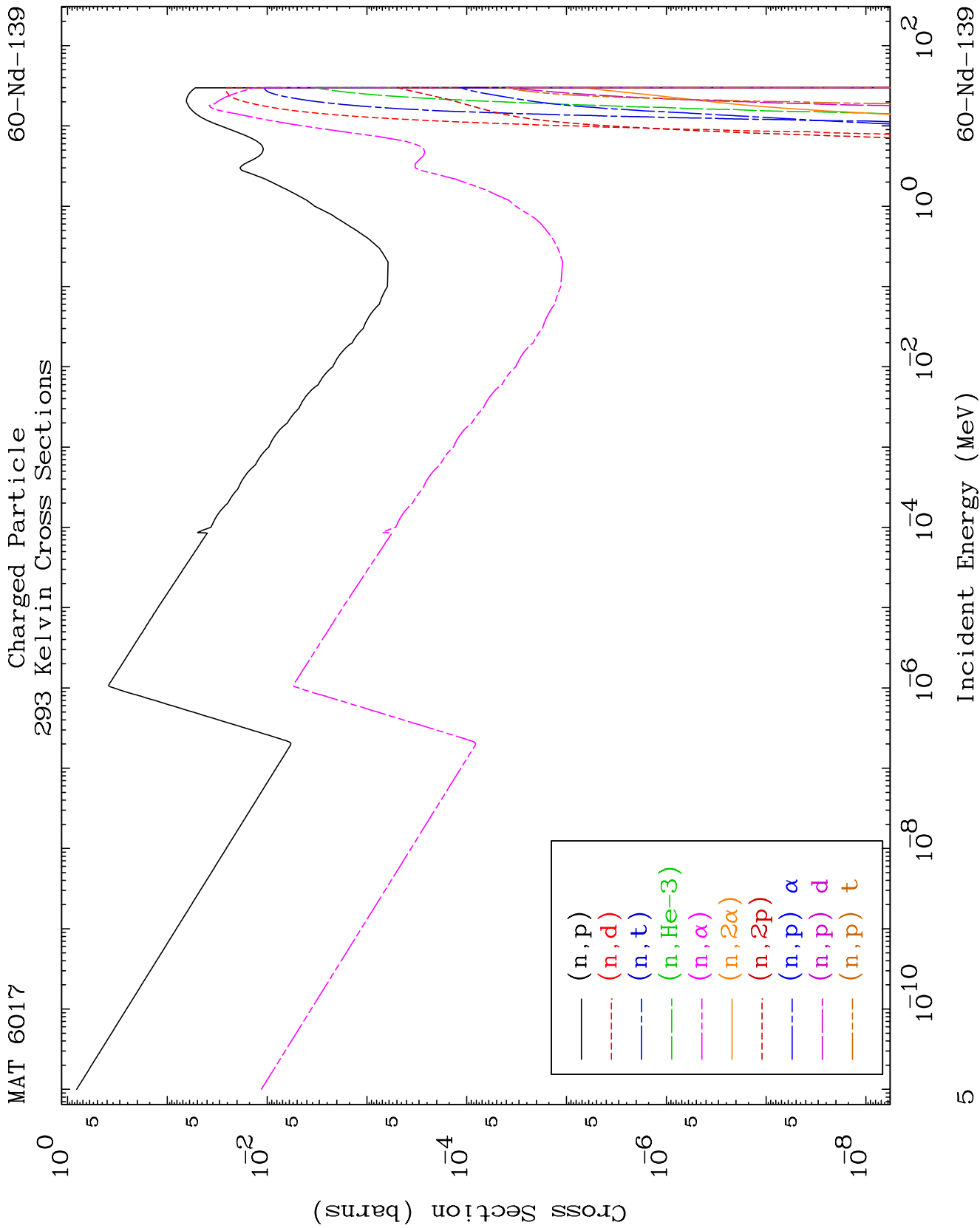
3

MAT 6017

Charged Particle
293 Kelvin Cross Sections

60-Nd-139

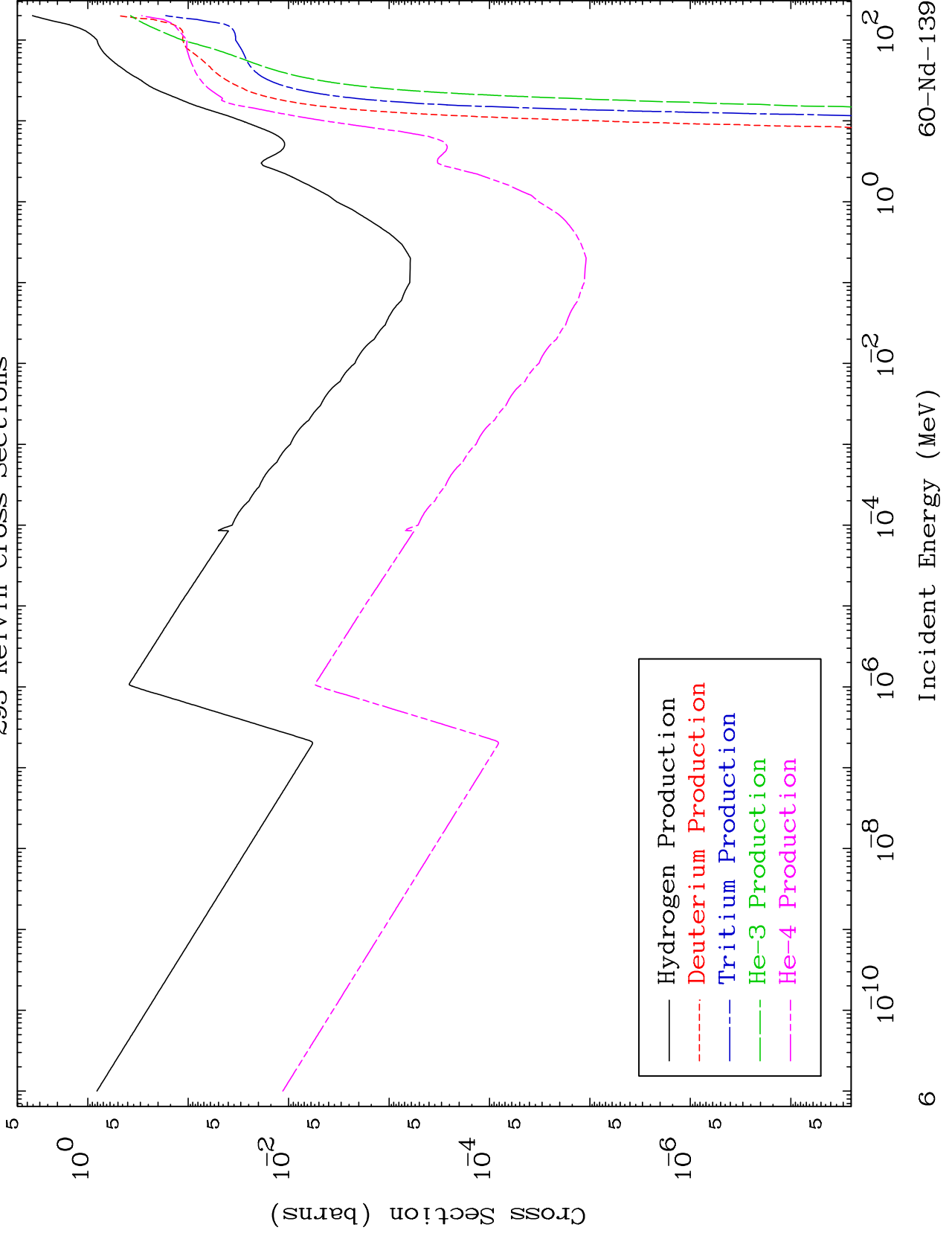




MAT 6017

Particle Production
293 Kelvin Cross Sections

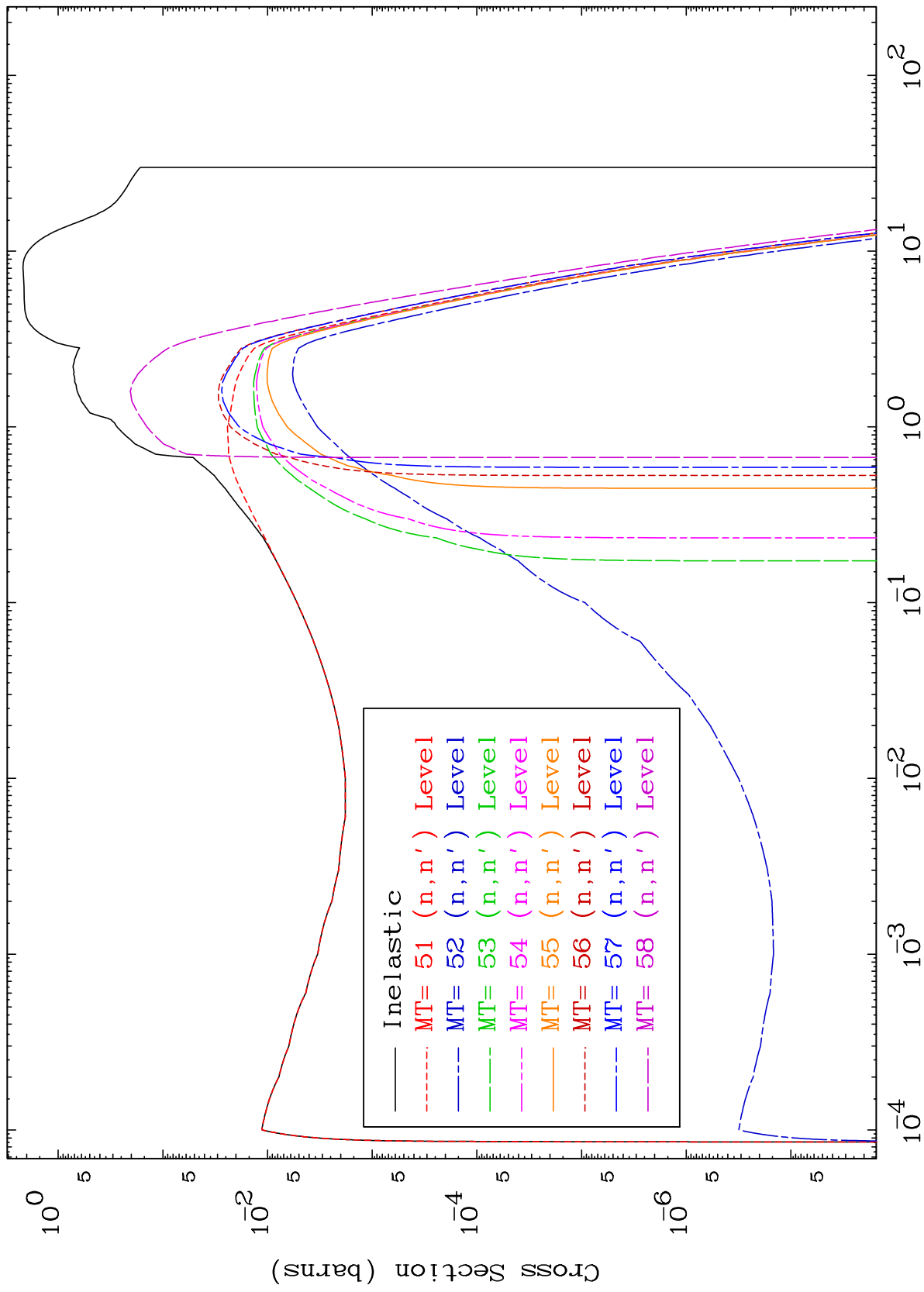
60-Nd-139



MAT 6017

60-Nd-139

(n,n') Level
293 Kelvin Cross Sections



60-Nd-139

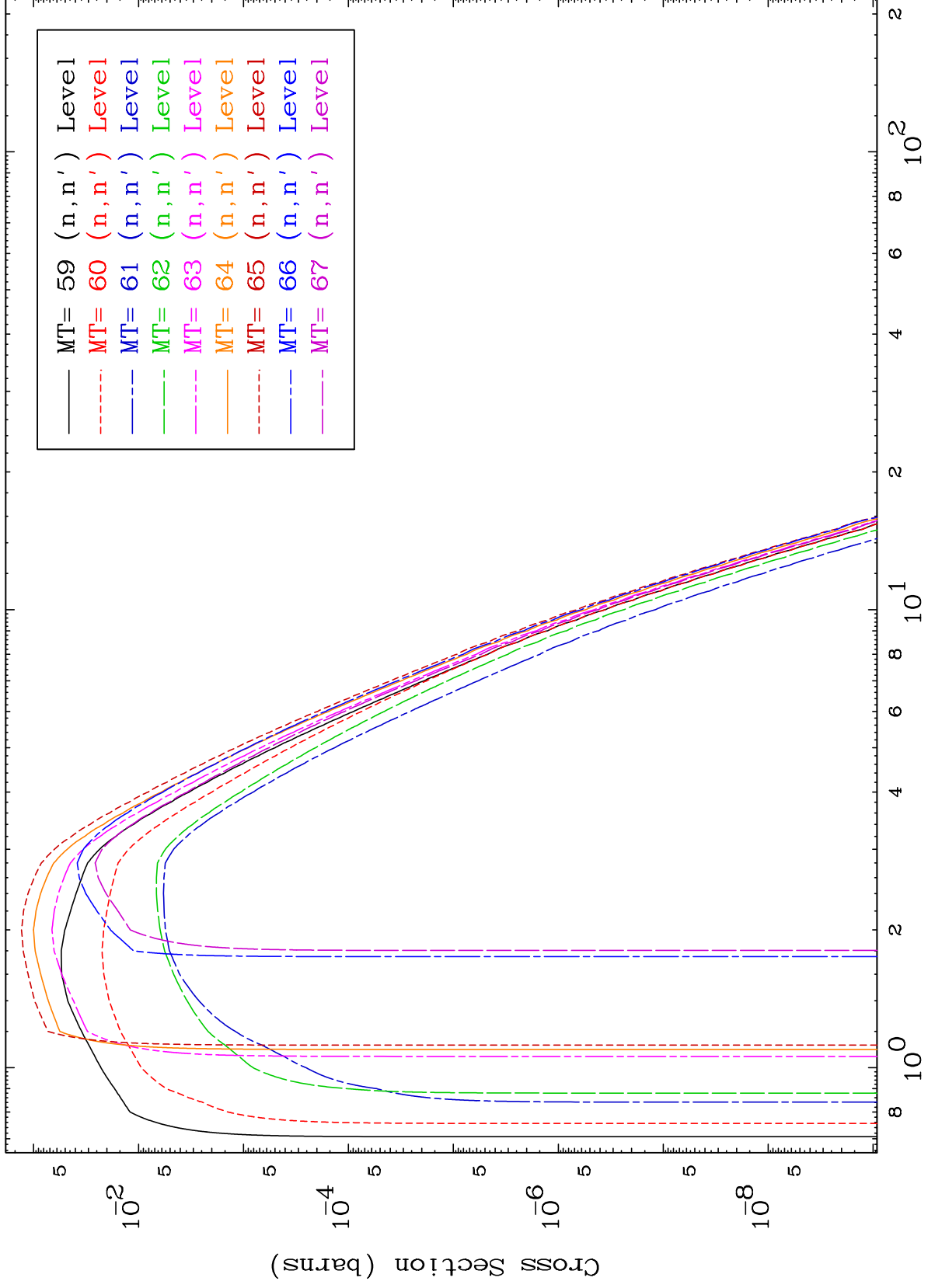
Incident Energy (MeV)

MAT 6017

(n,n') Level

60-Nd-139

293 Kelvin Cross Sections



Incident Energy (MeV)

60-Nd-139

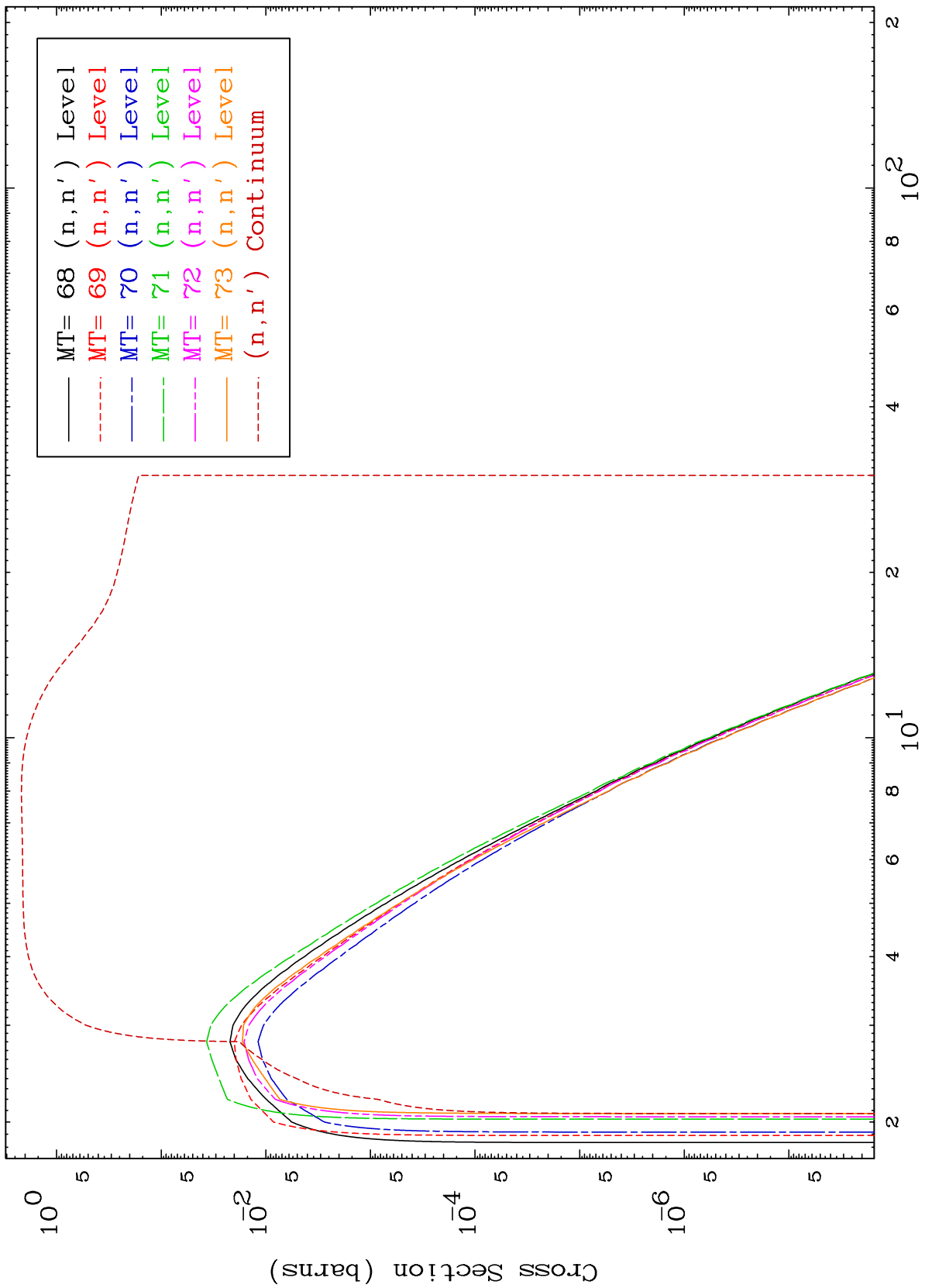
8

MAT 6017

(n,n') Level

60-Nd-139

293 Kelvin Cross Sections



—	MT= 68	(n, n')	Level
- - -	MT= 69	(n, n')	Level
- · - ·	MT= 70	(n, n')	Level
- - - -	MT= 71	(n, n')	Level
- · - ·	MT= 72	(n, n')	Level
—	MT= 73	(n, n')	Level
- · - ·	(n, n')	Continuum	

9

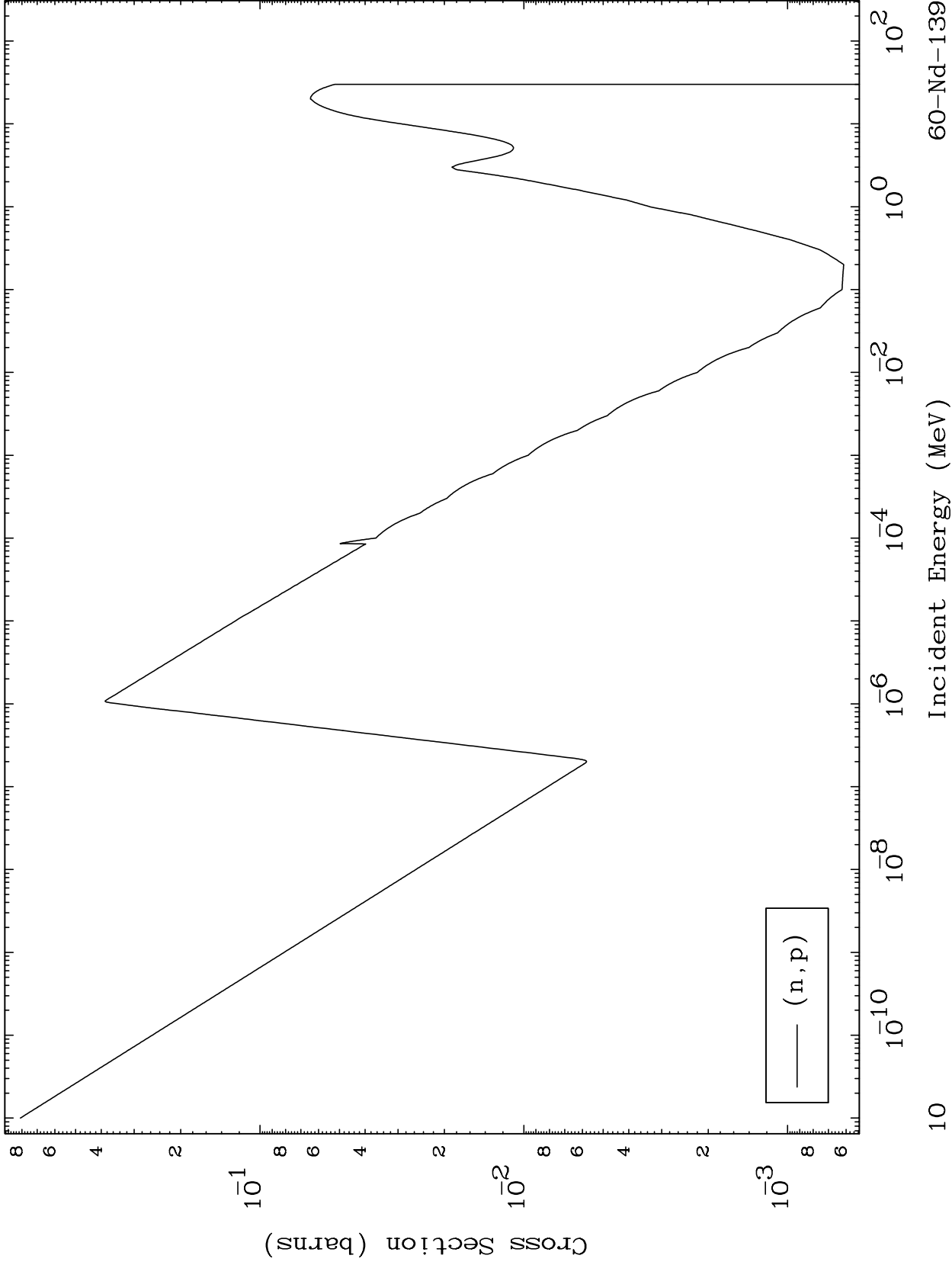
Incident Energy (MeV)

60-Nd-139

MAT 6017

(n,p) Levels
293 Kelvin Cross Sections

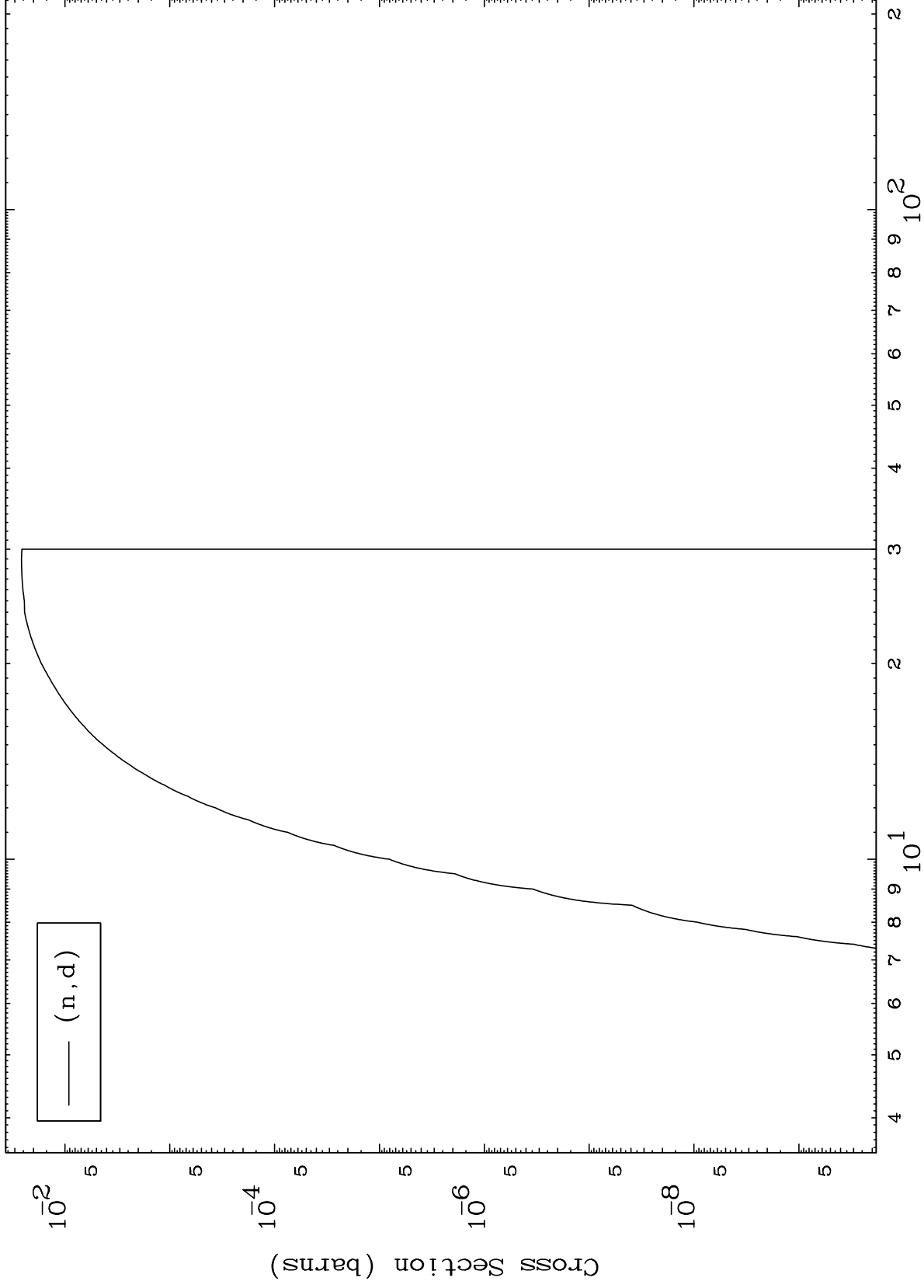
60-Nd-139



MAT 6017

(n,d) Levels
293 Kelvin Cross Sections

60-Nd-139



11

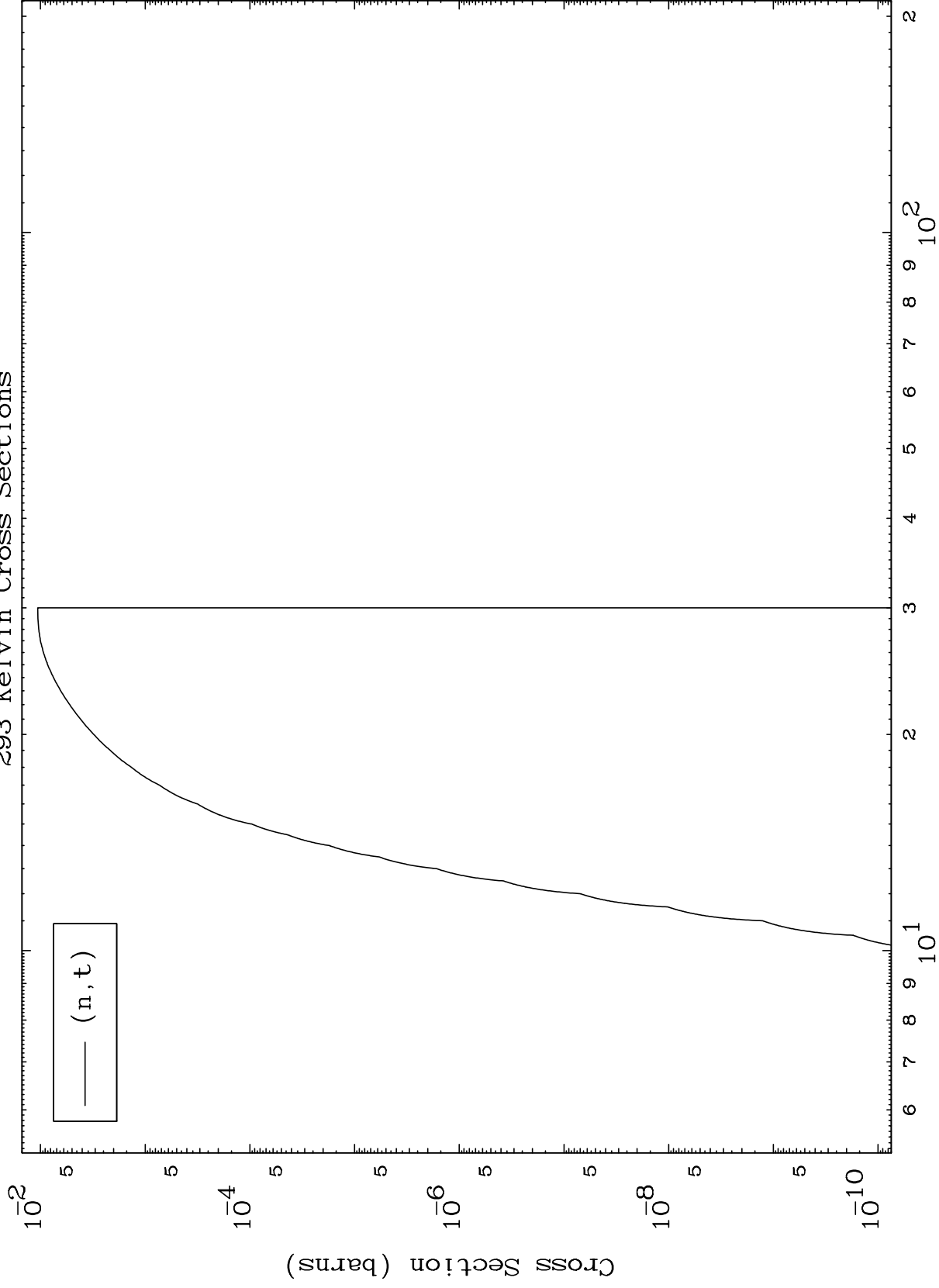
Incident Energy (MeV)

60-Nd-139

MAT 6017

(n,t) Levels
293 Kelvin Cross Sections

60-Nd-139



12

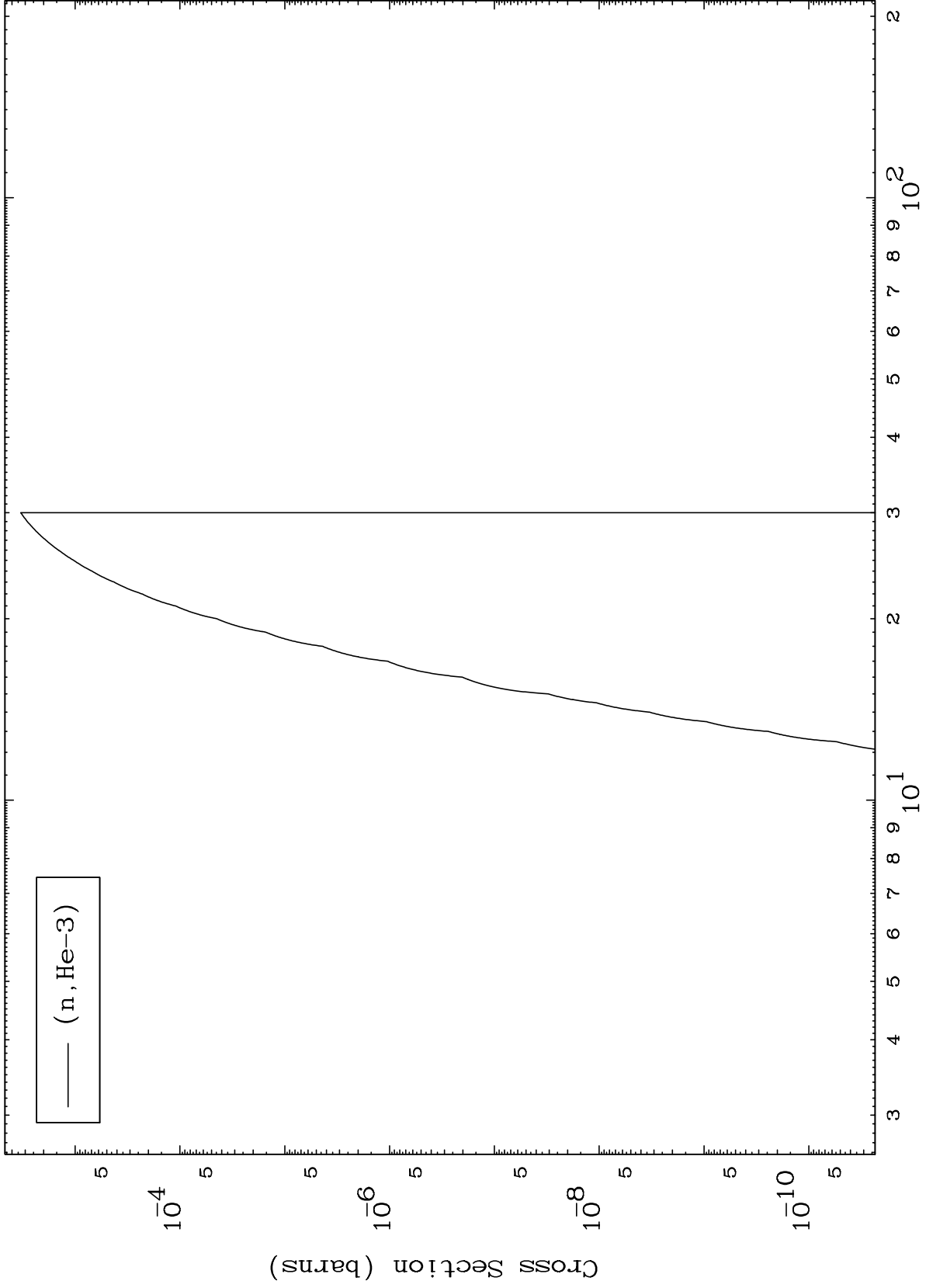
Incident Energy (MeV)

60-Nd-139

MAT 6017

(n,He3) Levels
293 Kelvin Cross Sections

60-Nd-139



13

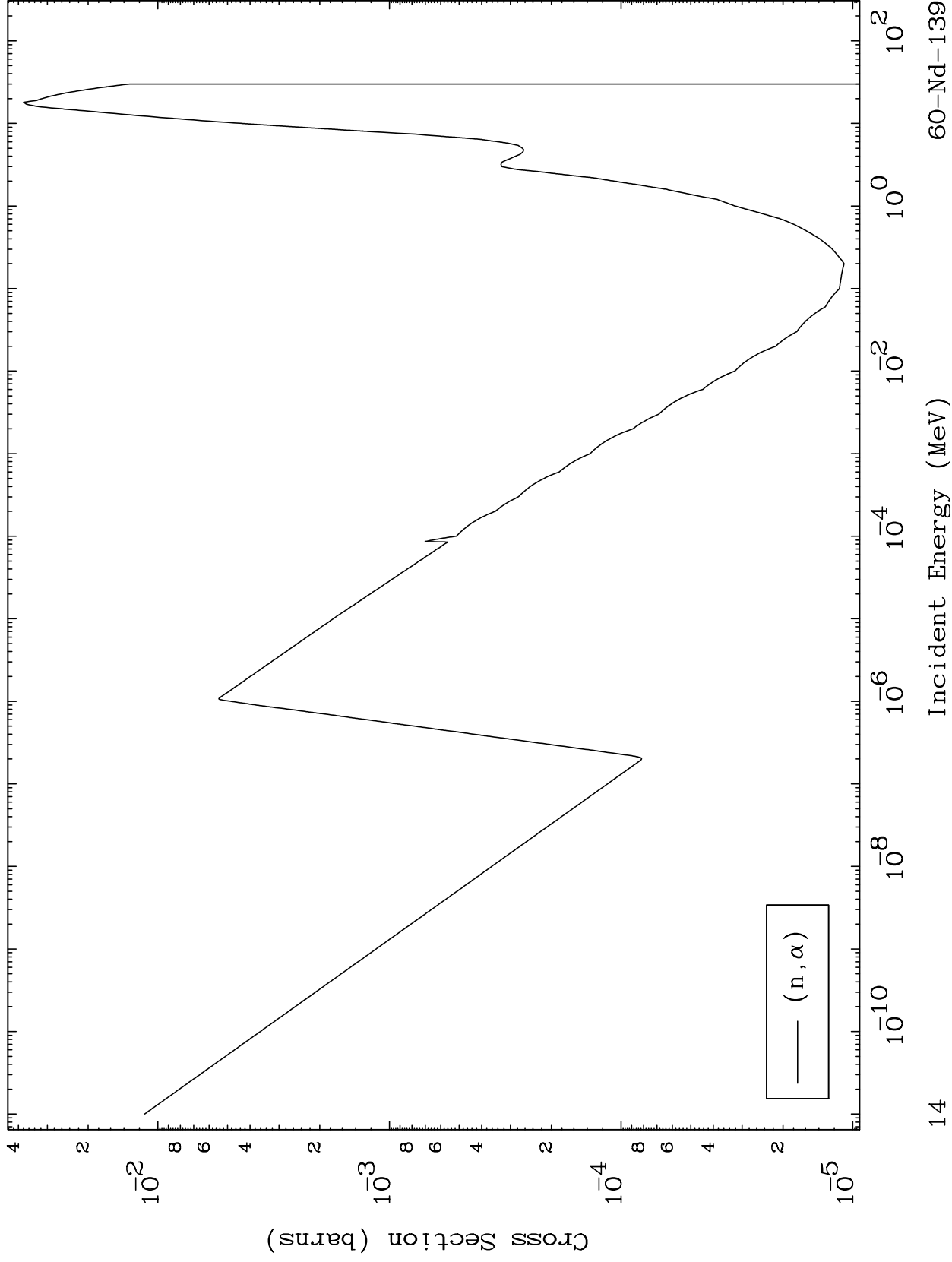
Incident Energy (MeV)

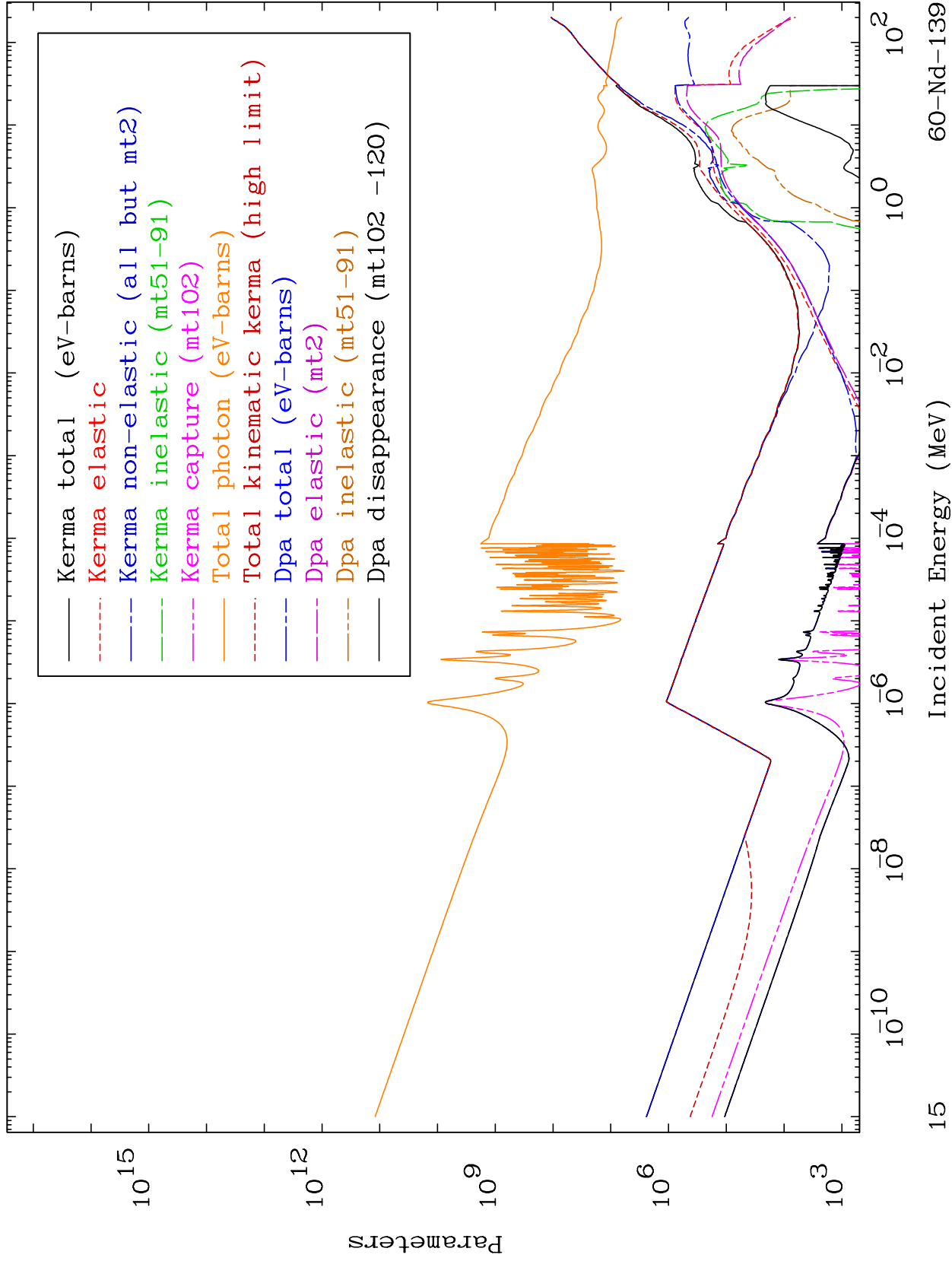
60-Nd-139

MAT 6017

(n,α) Levels
293 Kelvin Cross Sections

60-Nd-139

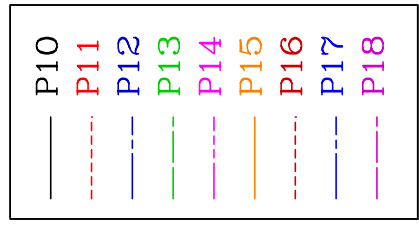




MAT 6017

Elastic
Legendre Coefficients

60-Nd-139

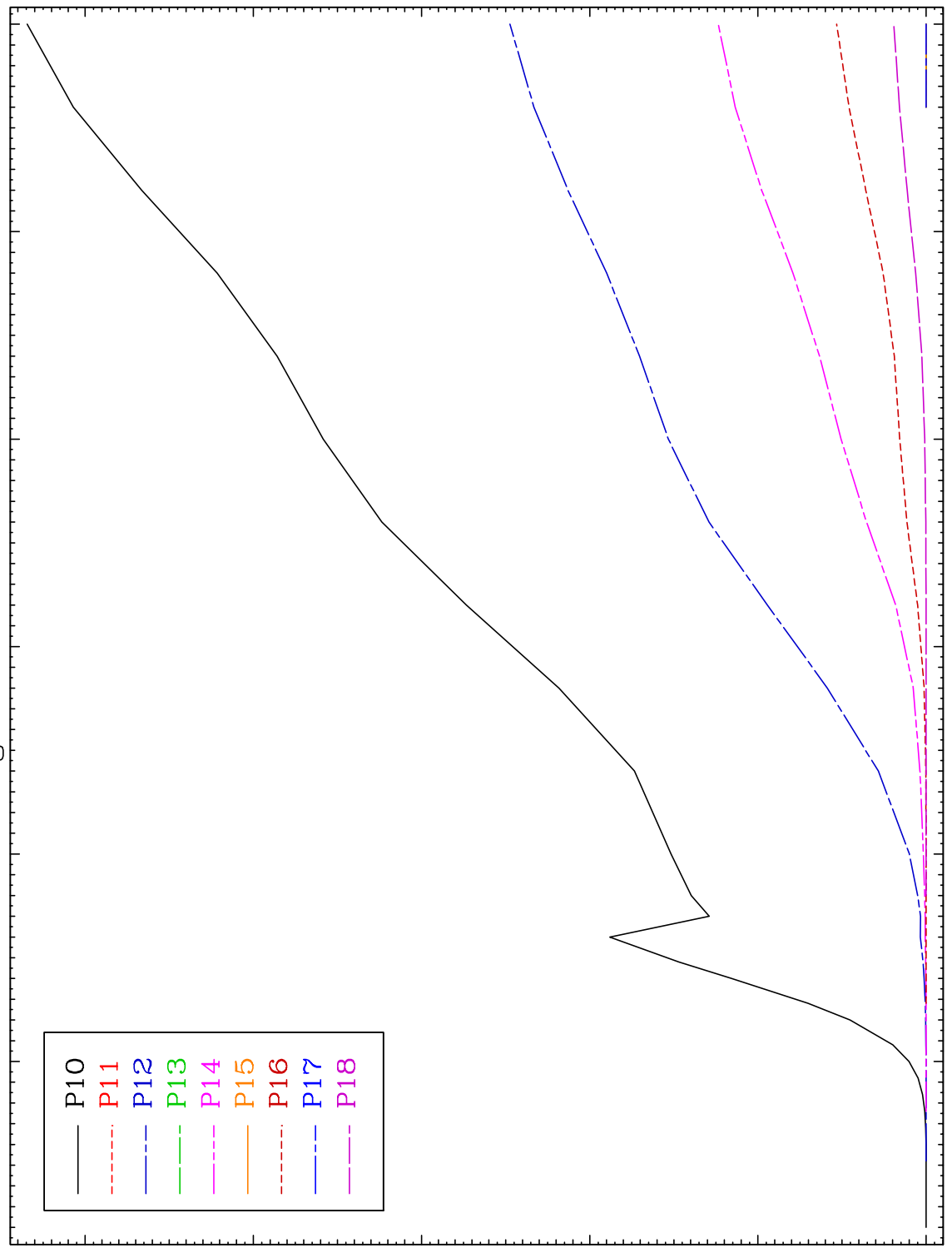


Legendre (CM)
 $\times 10^{-4}$

17

Incident Energy (MeV)

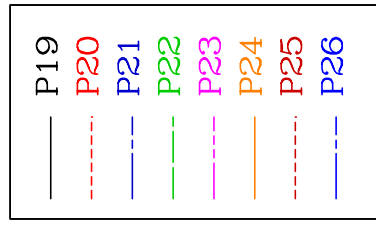
60-Nd-139



MAT 6017

Elastic
Legendre Coefficients

60-Nd-139



$\times 10^{-6}$
2.0

1.5

1.0

0.5

0.0

Legendre (CM)

15

20

25

30

18

Incident Energy (MeV)

60-Nd-139

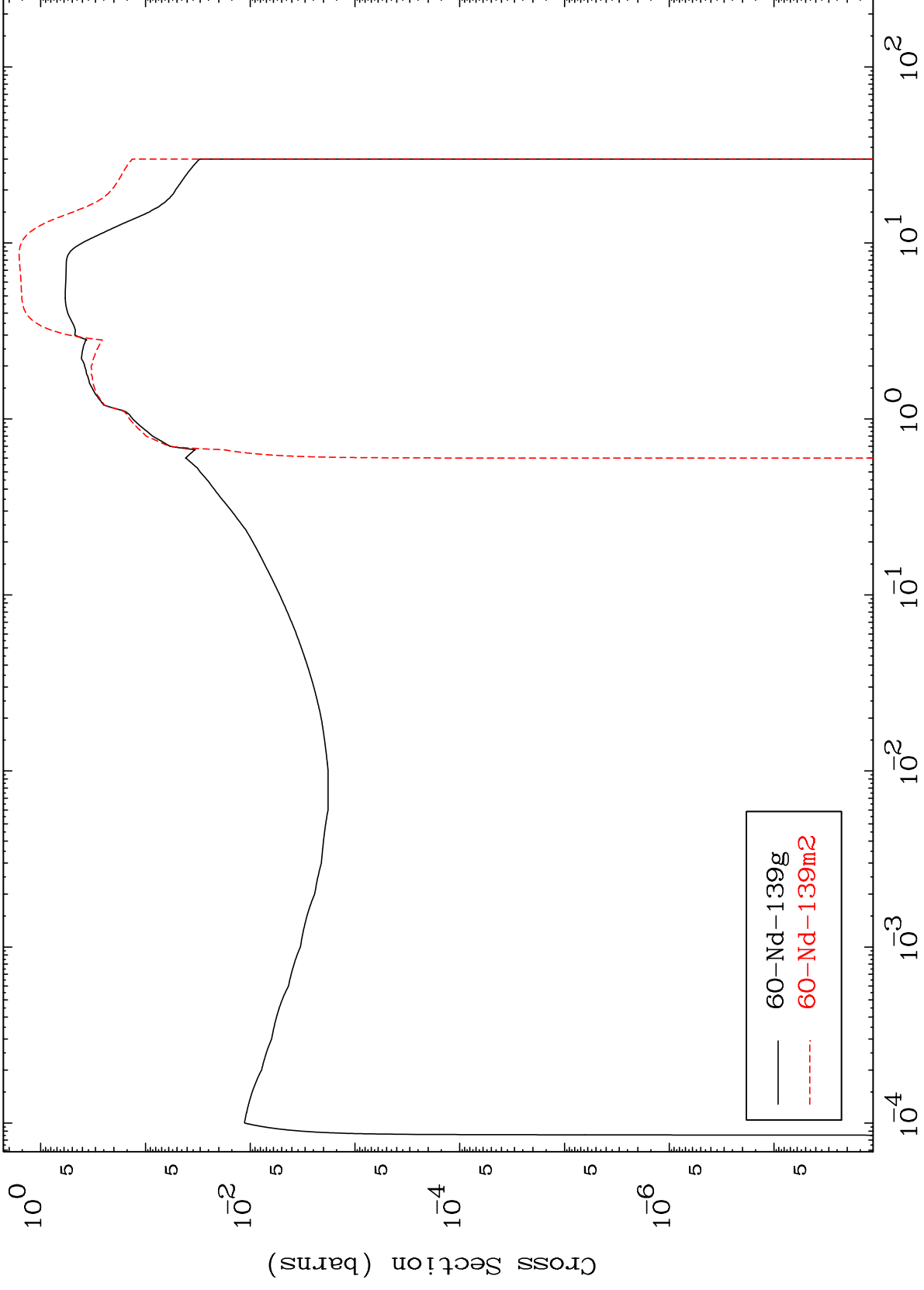


MAT 6017

Inelastic

60-Nd-139

Radionuclide Production Cross Section



60-Nd-139g
60-Nd-139m2

19

Incident Energy (MeV)

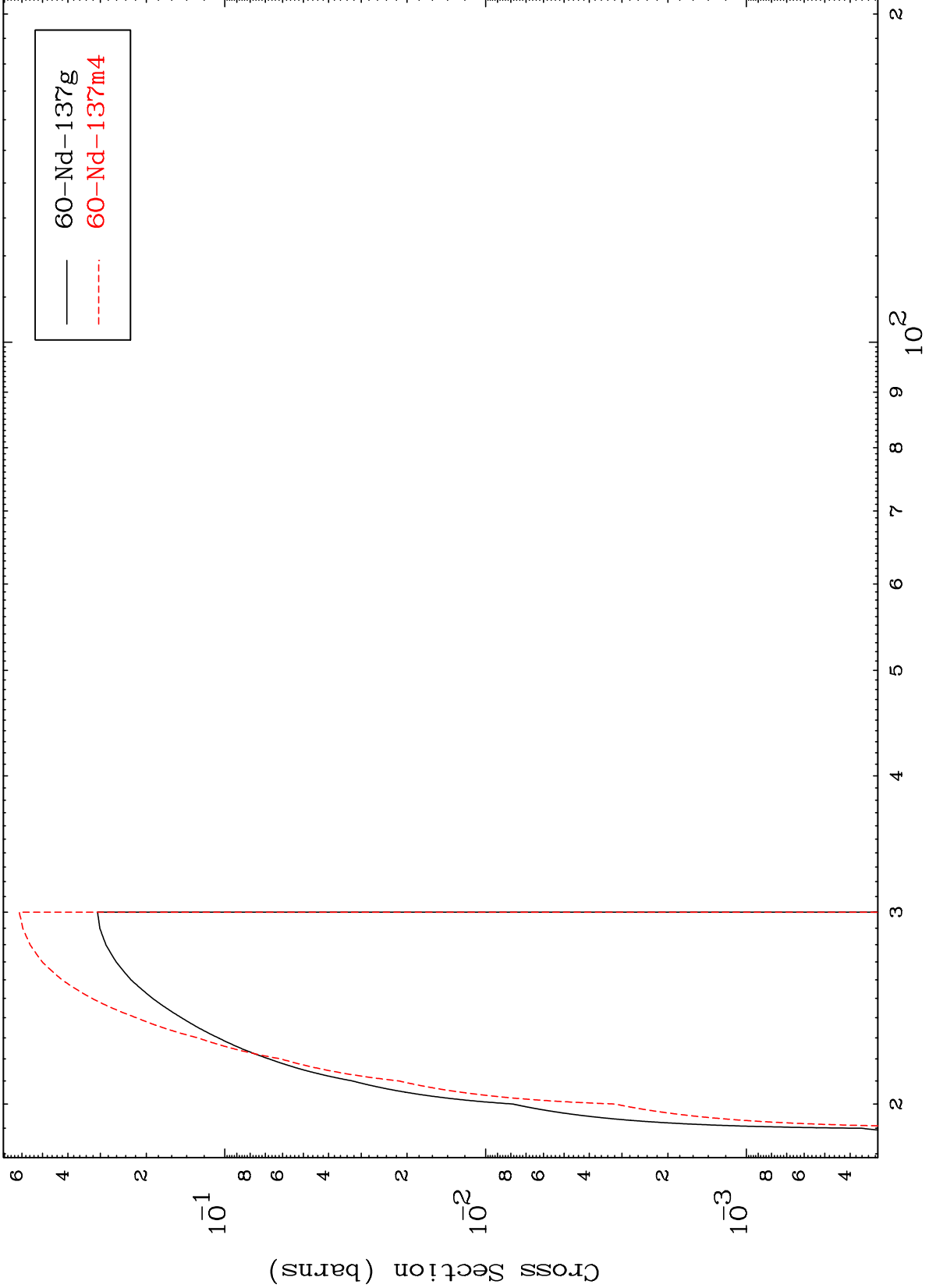
60-Nd-139

MAT 6017

(n,3n)

60-Nd-139

Radionuclide Production Cross Section



20

Incident Energy (MeV)

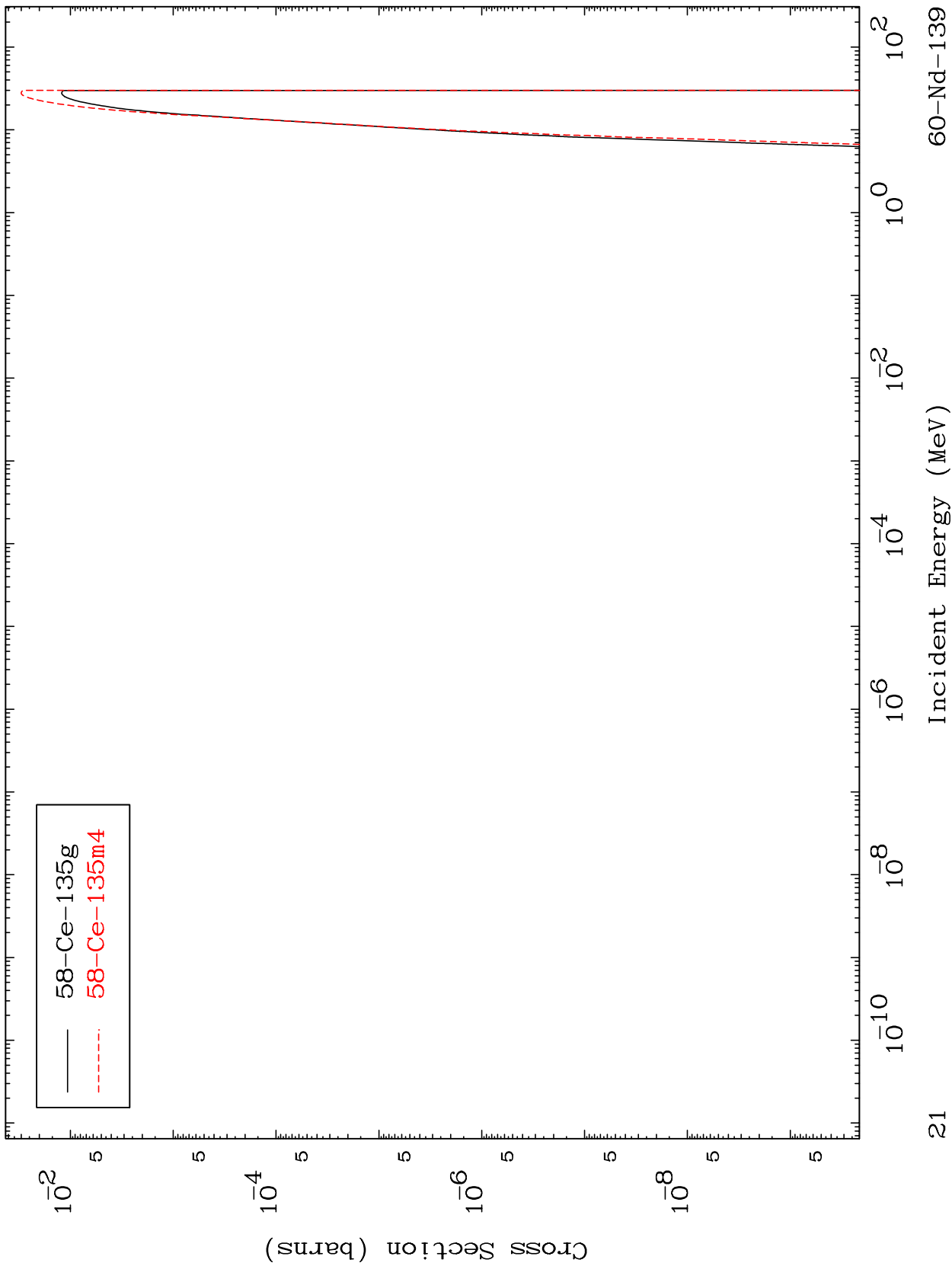
60-Nd-139

MAT 6017

(n, n') α

60-Nd-139

Radionuclide Production Cross Section



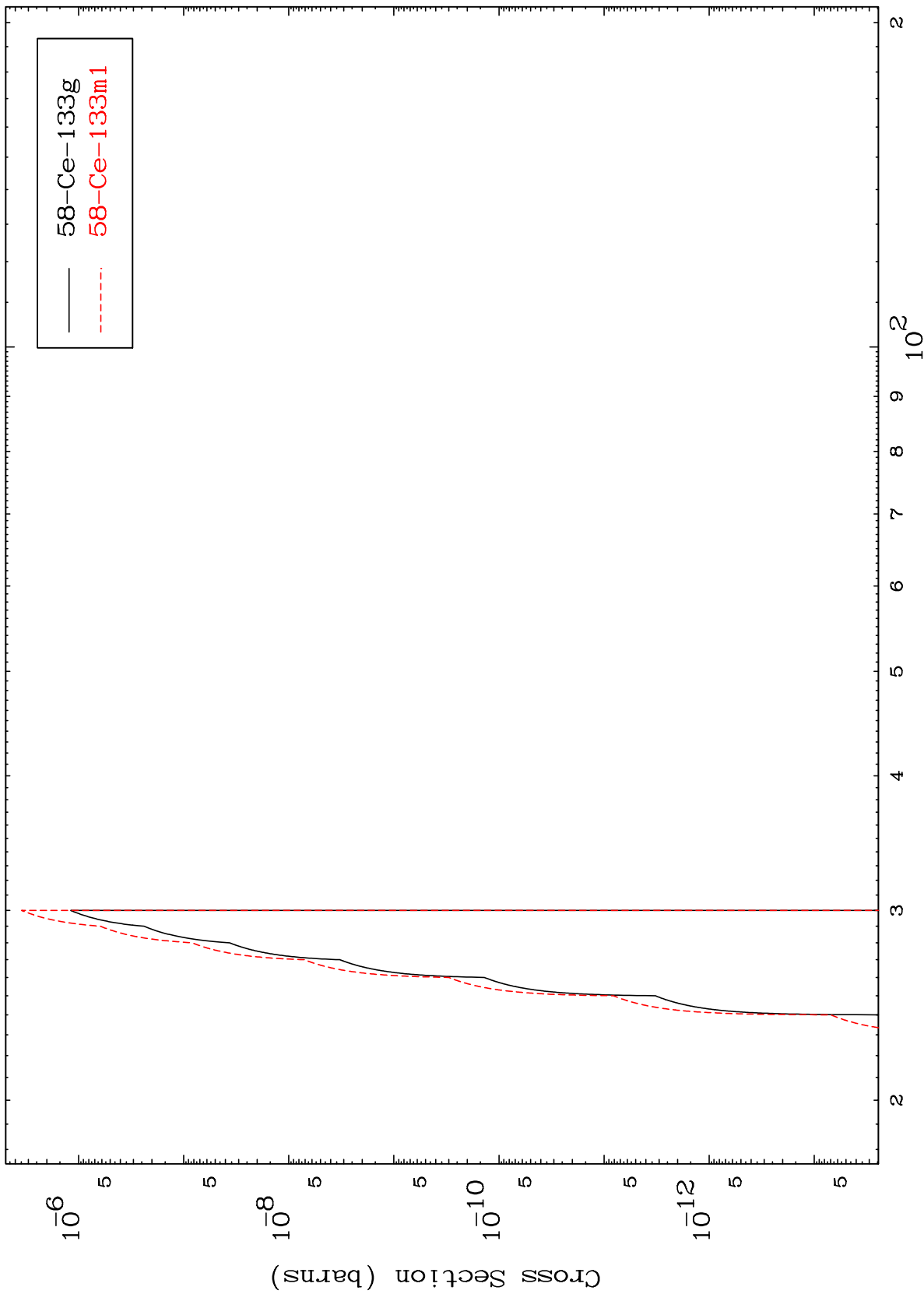
58-Ce-135g
58-Ce-135m4

MAT 6017

(n,3n) α

60-Nd-139

Radionuclide Production Cross Section



58-Ce-133g
58-Ce-133m1

22

Incident Energy (MeV)

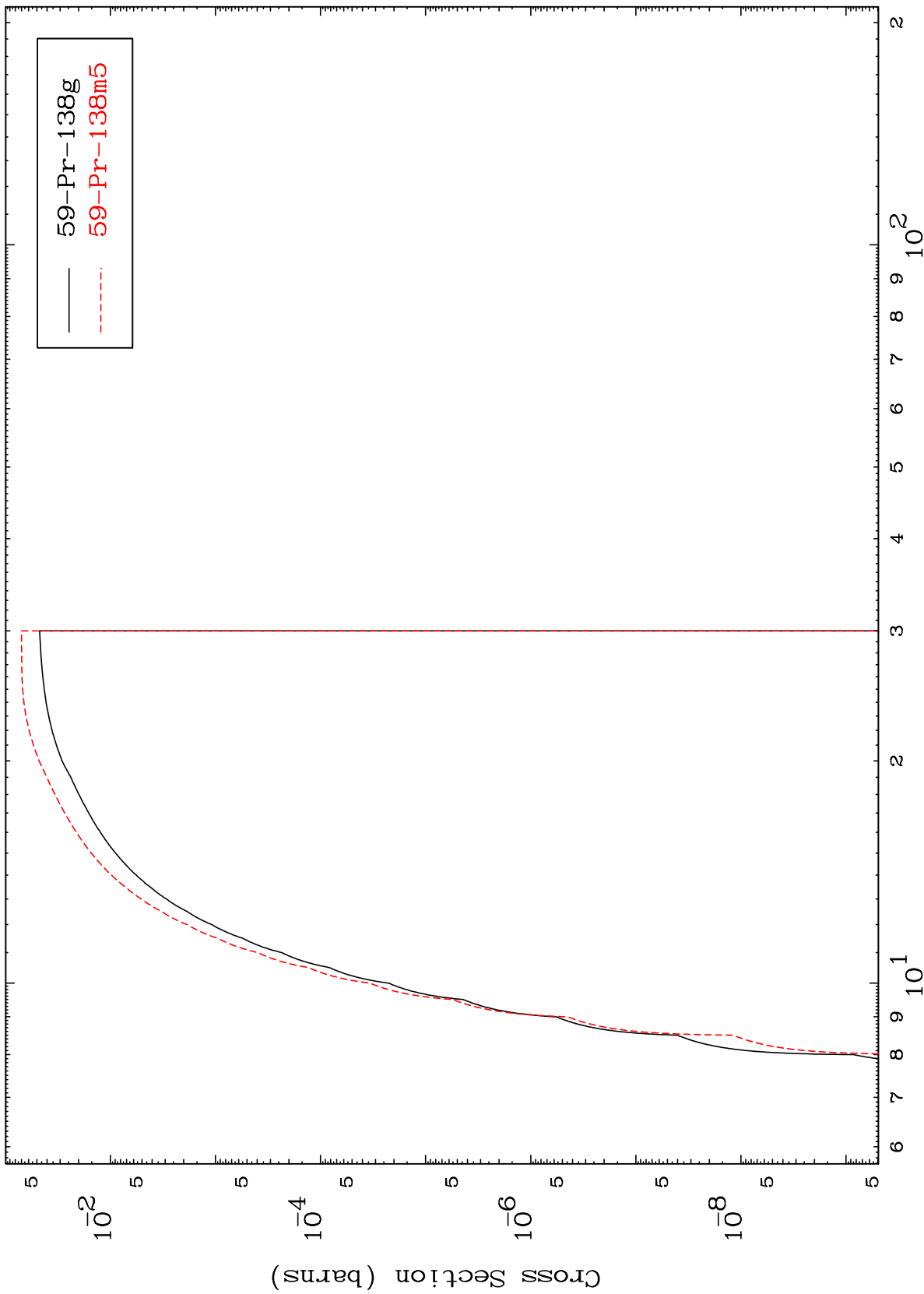
60-Nd-139

MAT 6017

(n,n') p

60-Nd-139

Radionuclide Production Cross Section



23

Incident Energy (MeV)

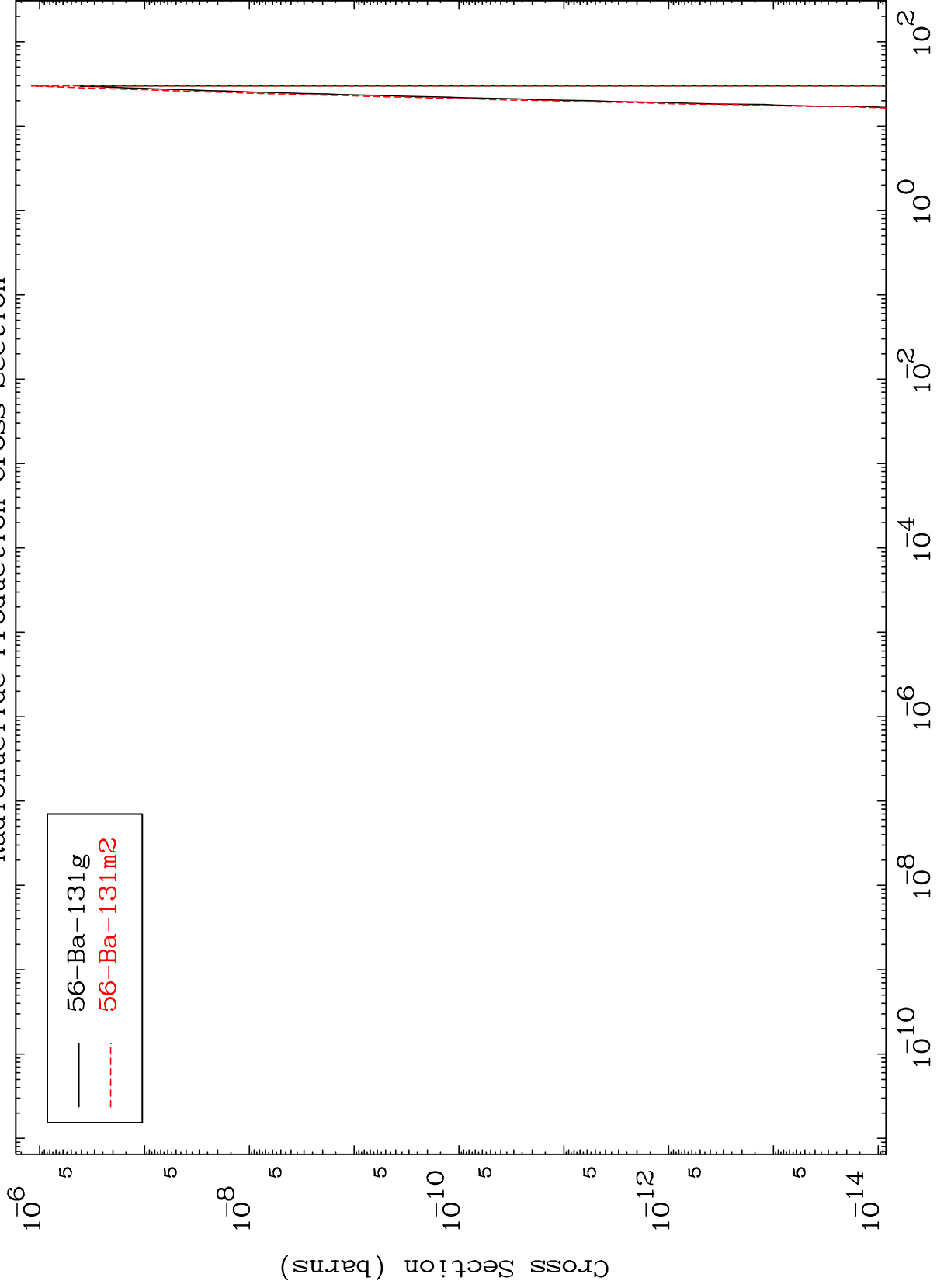
60-Nd-139

MAT 6017

(n,n') 2 α

60-Nd-139

Radionuclide Production Cross Section



24

Incident Energy (MeV)

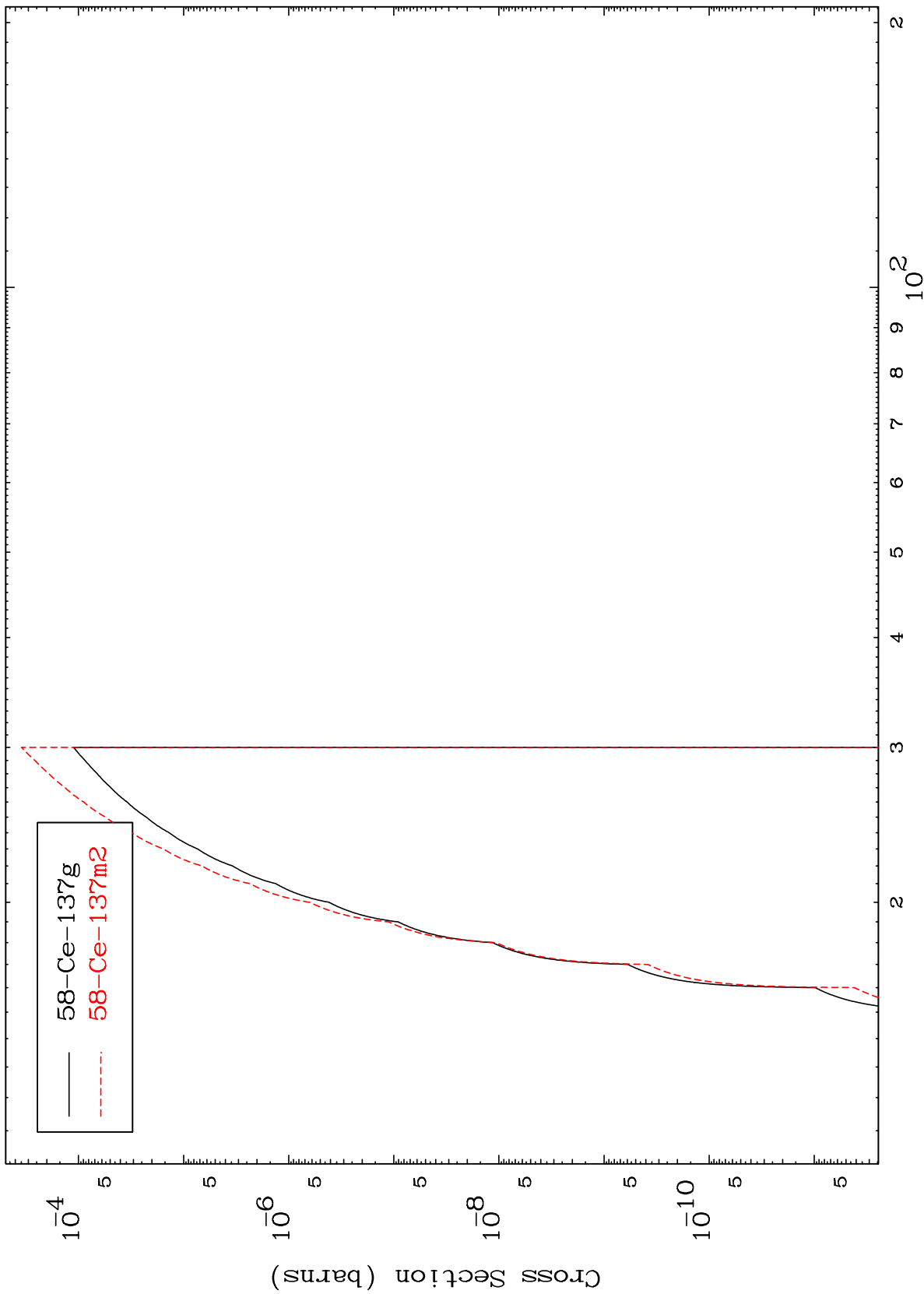
60-Nd-139

MAT 6017

(n,2n) p

60-Nd-139

Radionuclide Production Cross Section



25

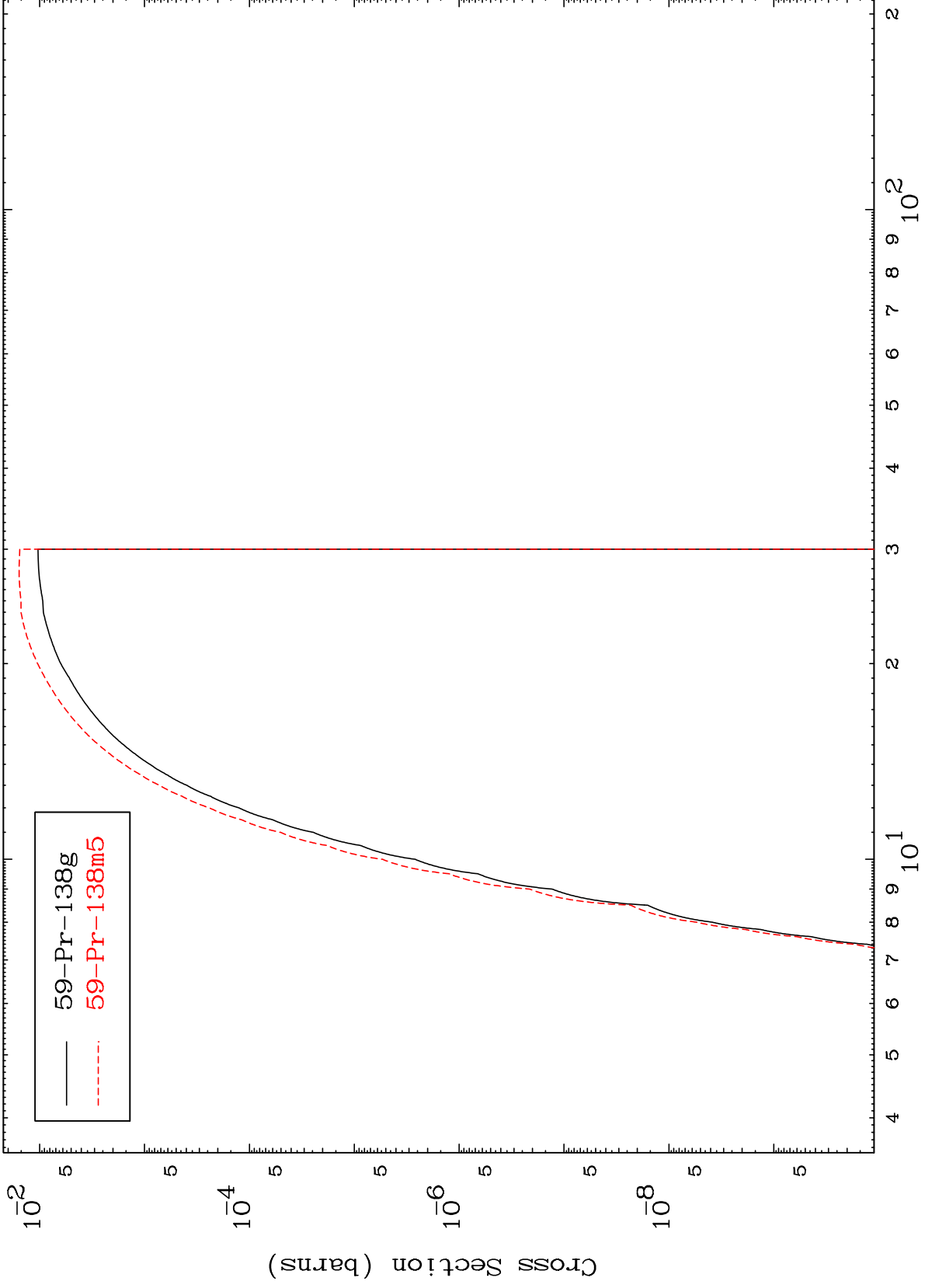
Incident Energy (MeV)

60-Nd-139

MAT 6017

60-Nd-139

(n,d)
Radionuclide Production Cross Section



26

Incident Energy (MeV)

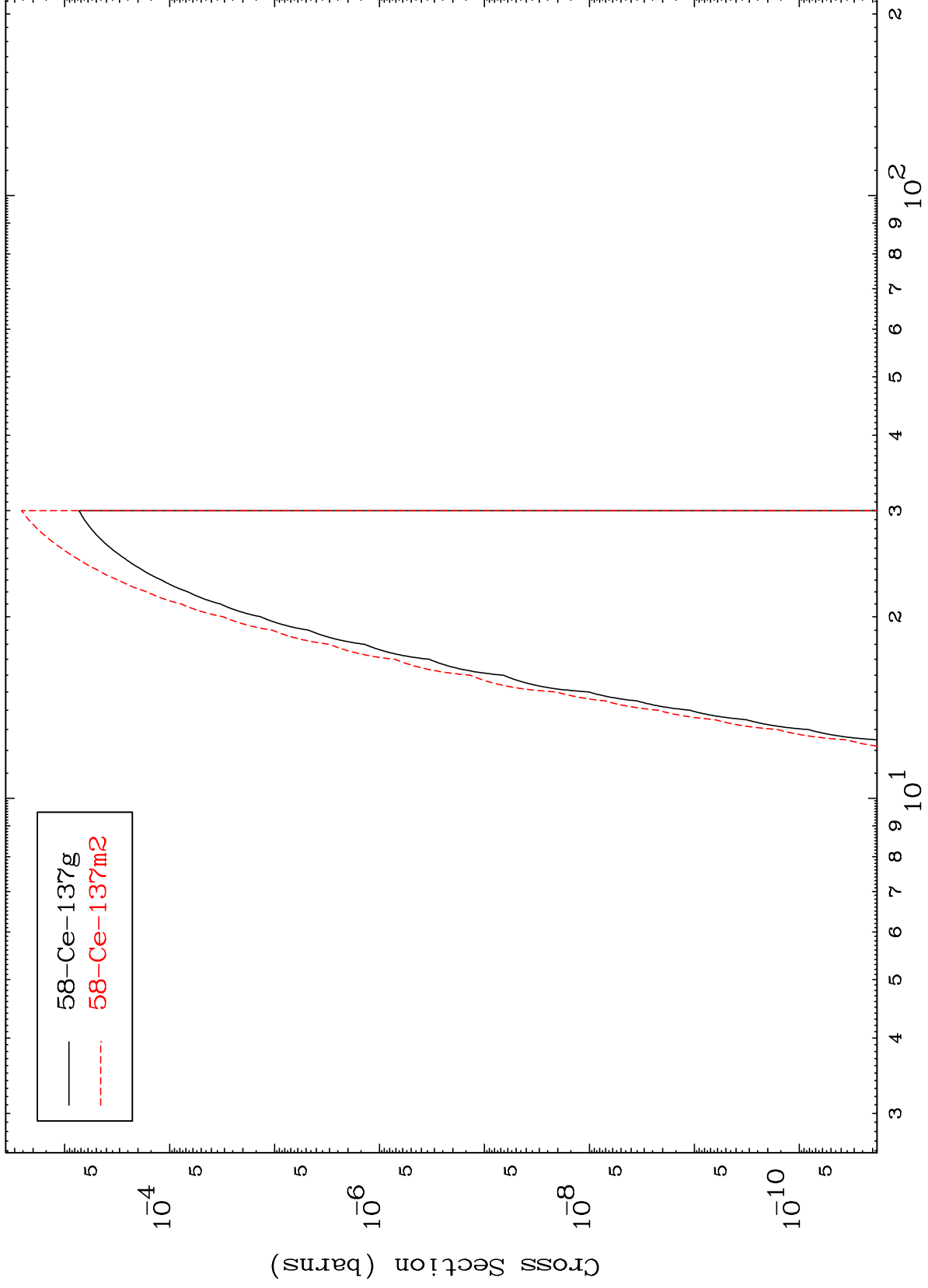
60-Nd-139

MAT 6017

(n,He-3)

60-Nd-139

Radionuclide Production Cross Section



27

Incident Energy (MeV)

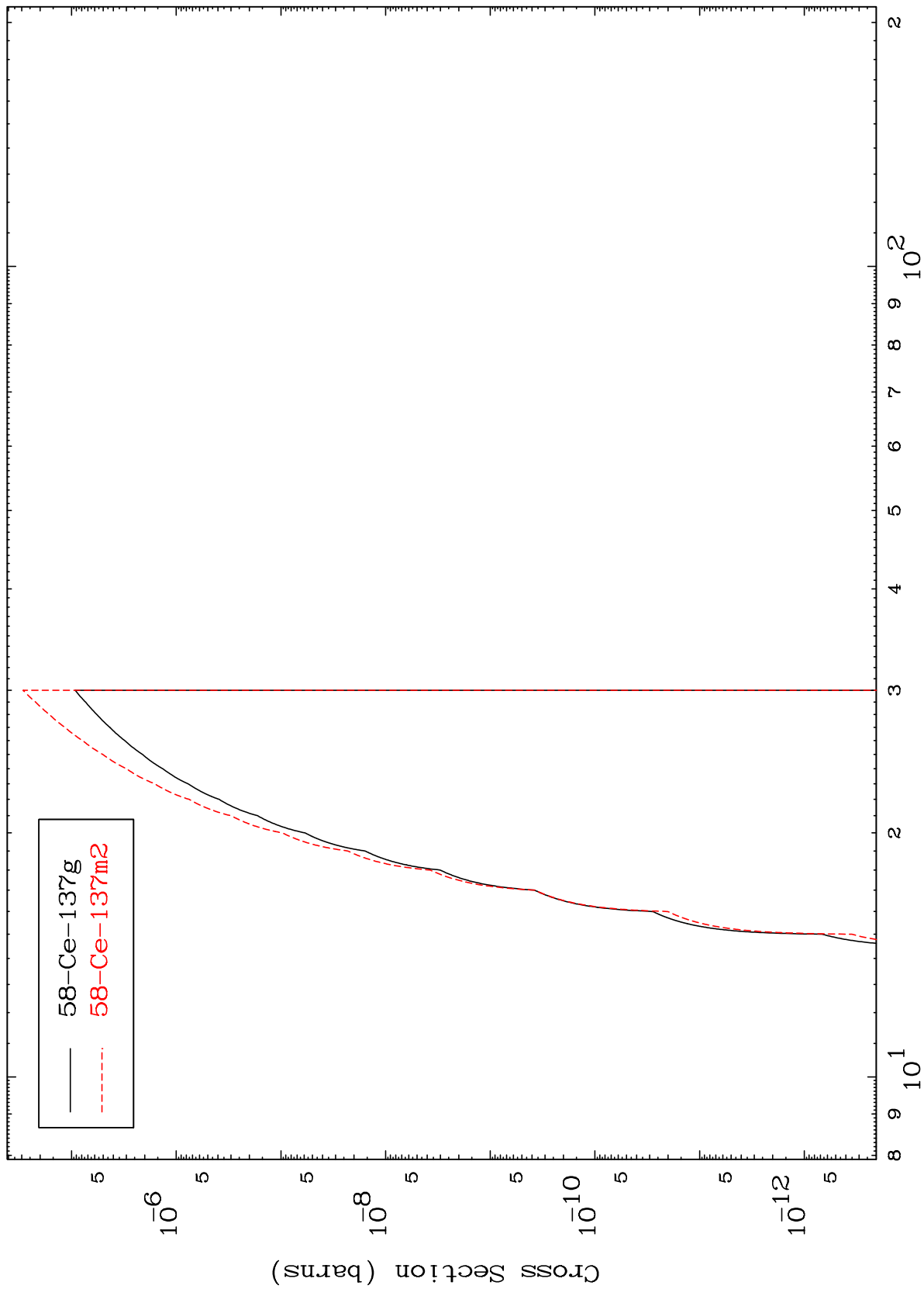
60-Nd-139

MAT 6017

(n,p) d

60-Nd-139

Radionuclide Production Cross Section



28

Incident Energy (MeV)

60-Nd-139