

Program EVALPLOT  
(Version 2018-1)

by

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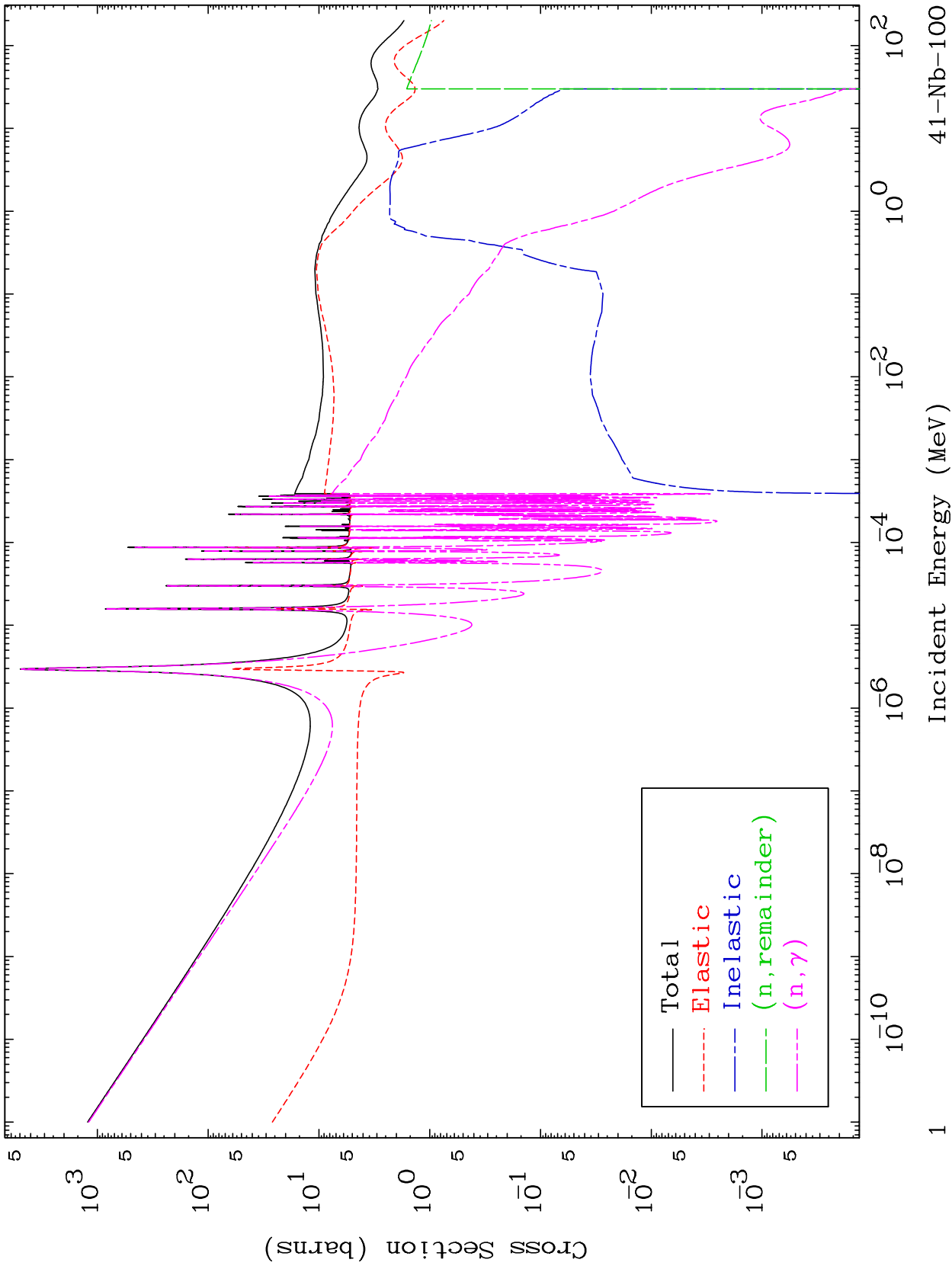
Press Mouse Button to Start

MAT 4147

Major

293 Kelvin Cross Sections

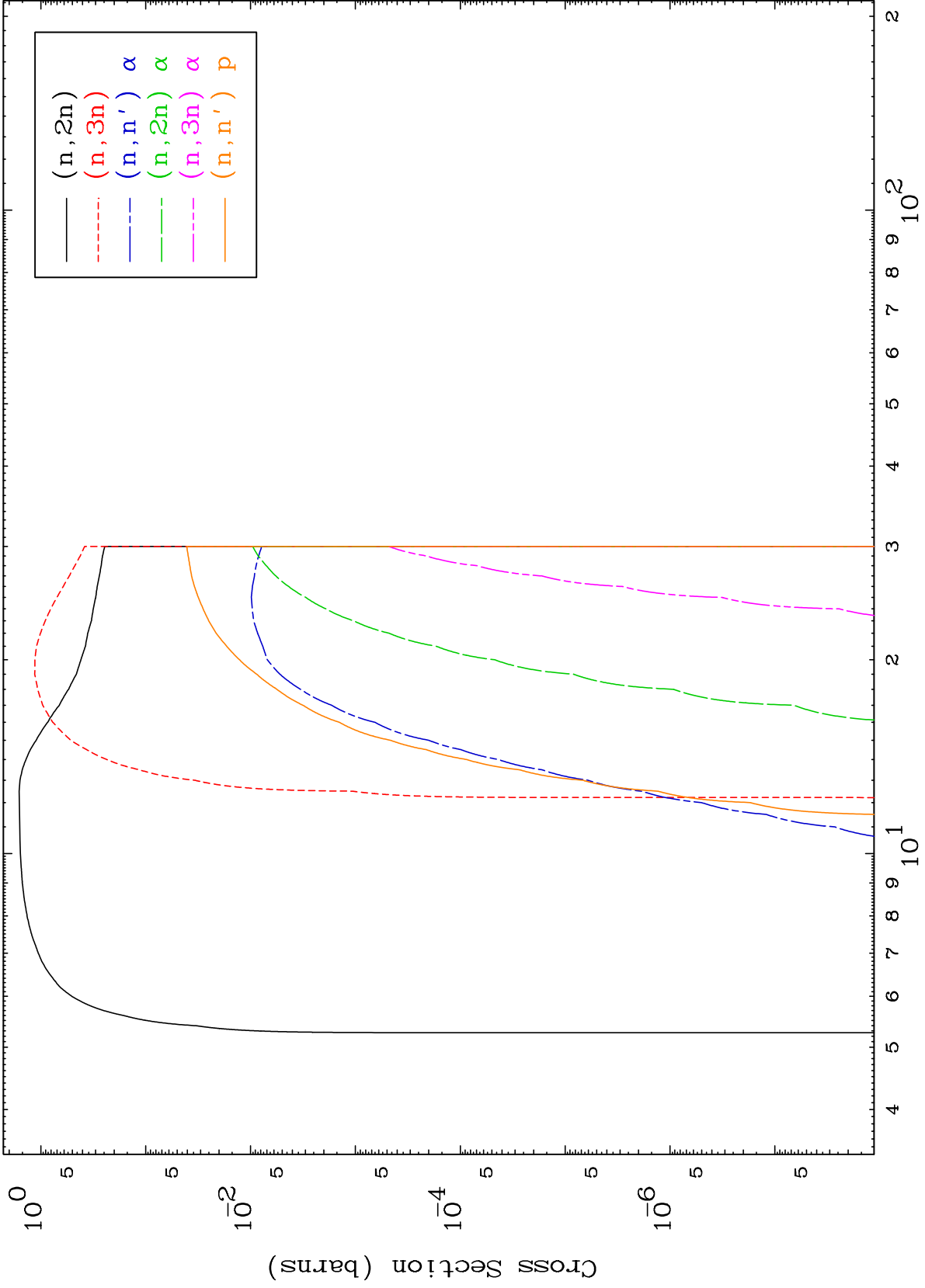
41-Nb-100



MAT 4147

Neutron Production  
293 Kelvin Cross Sections

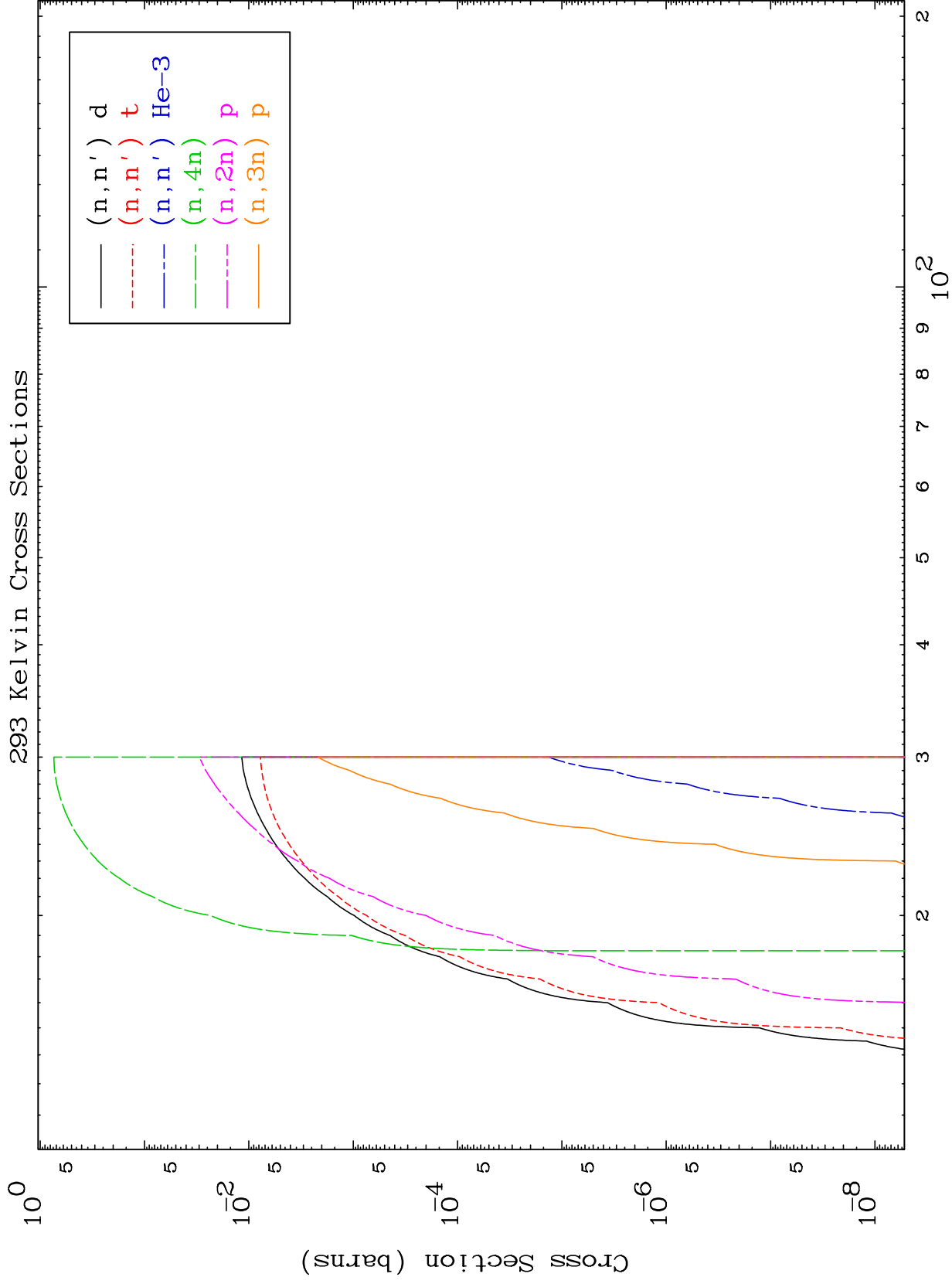
41-Nb-100

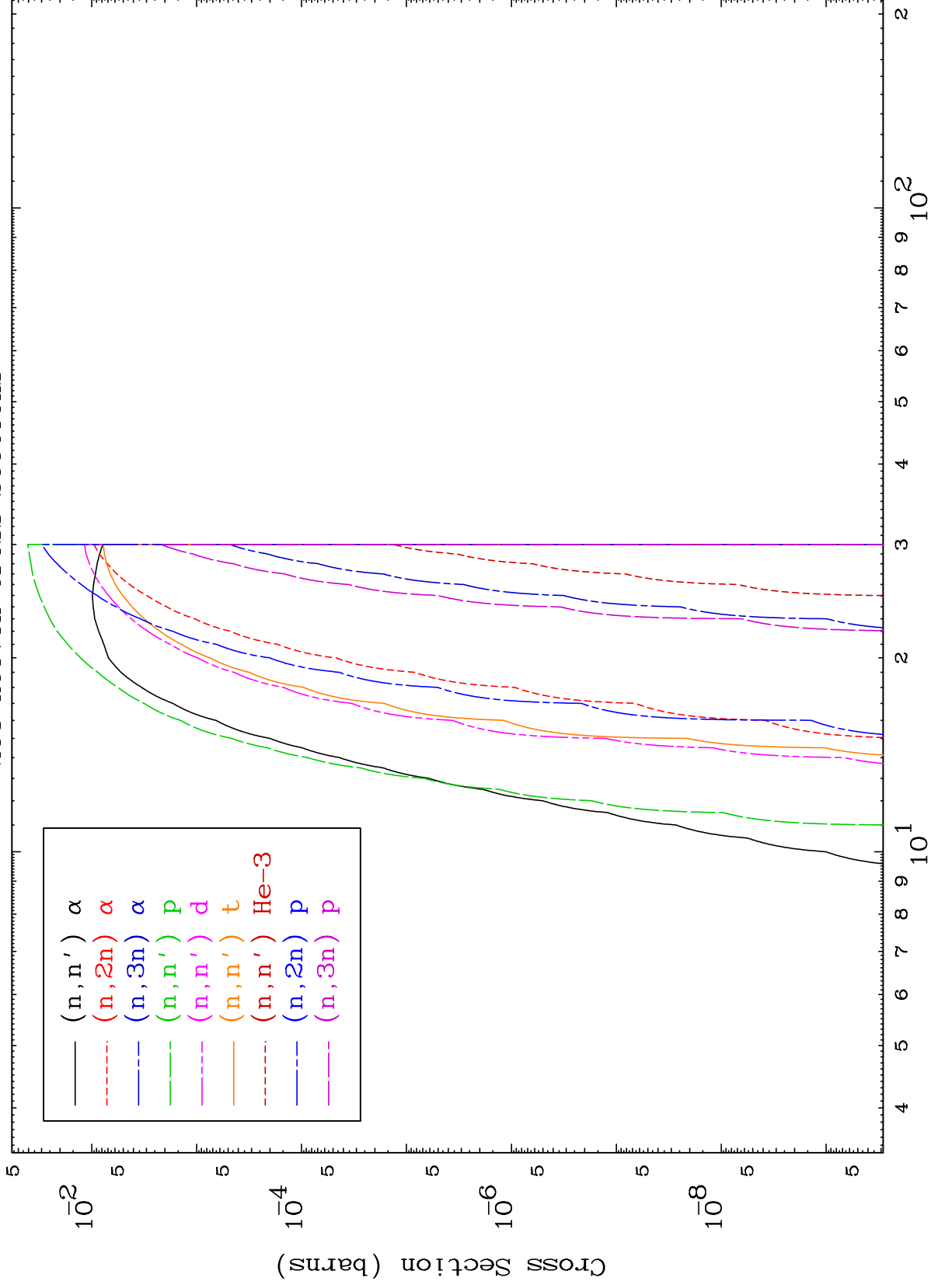


2

Incident Energy (MeV)

41-Nb-100

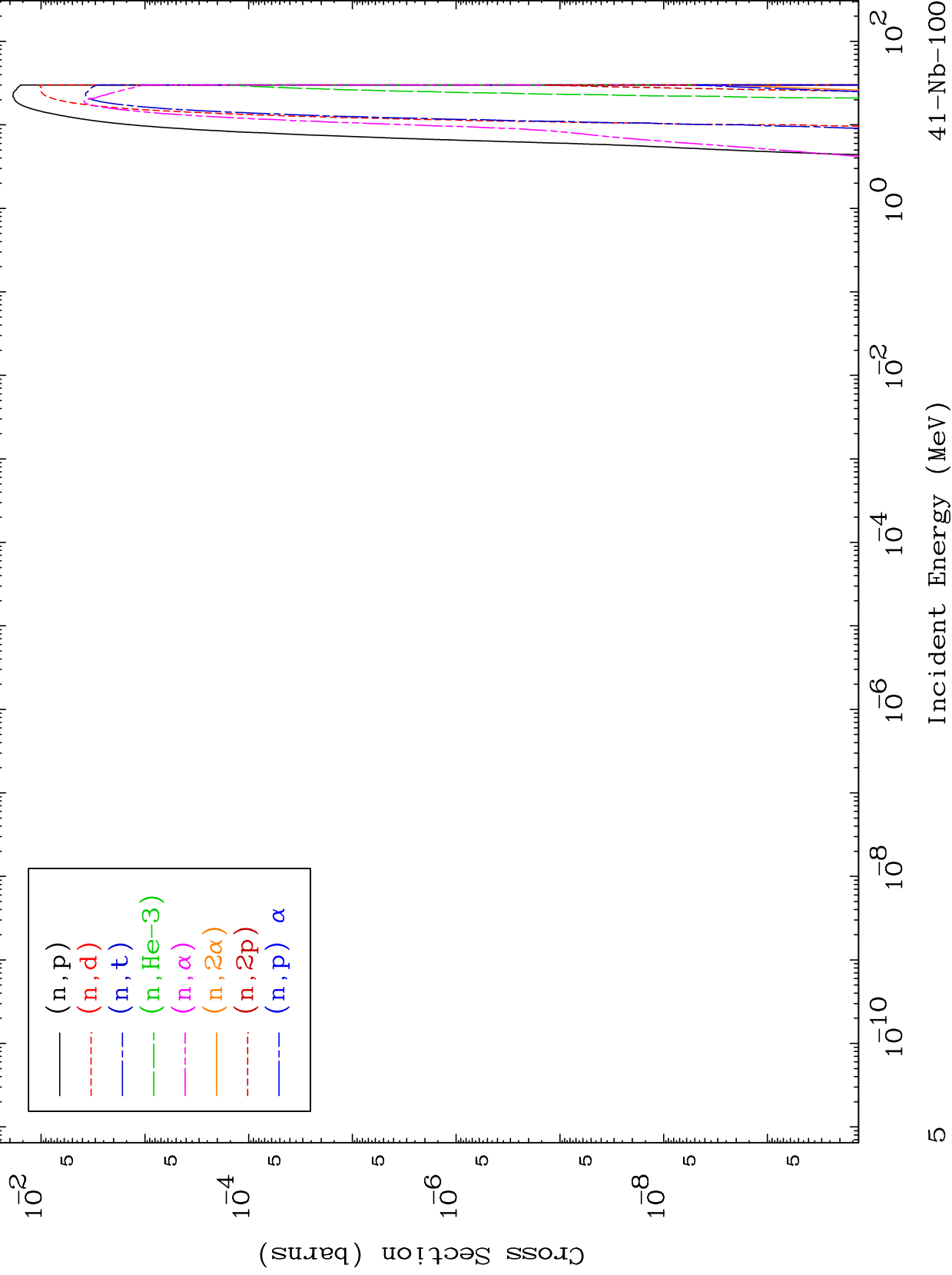




MAT 4147

Charged Particle  
293 Kelvin Cross Sections

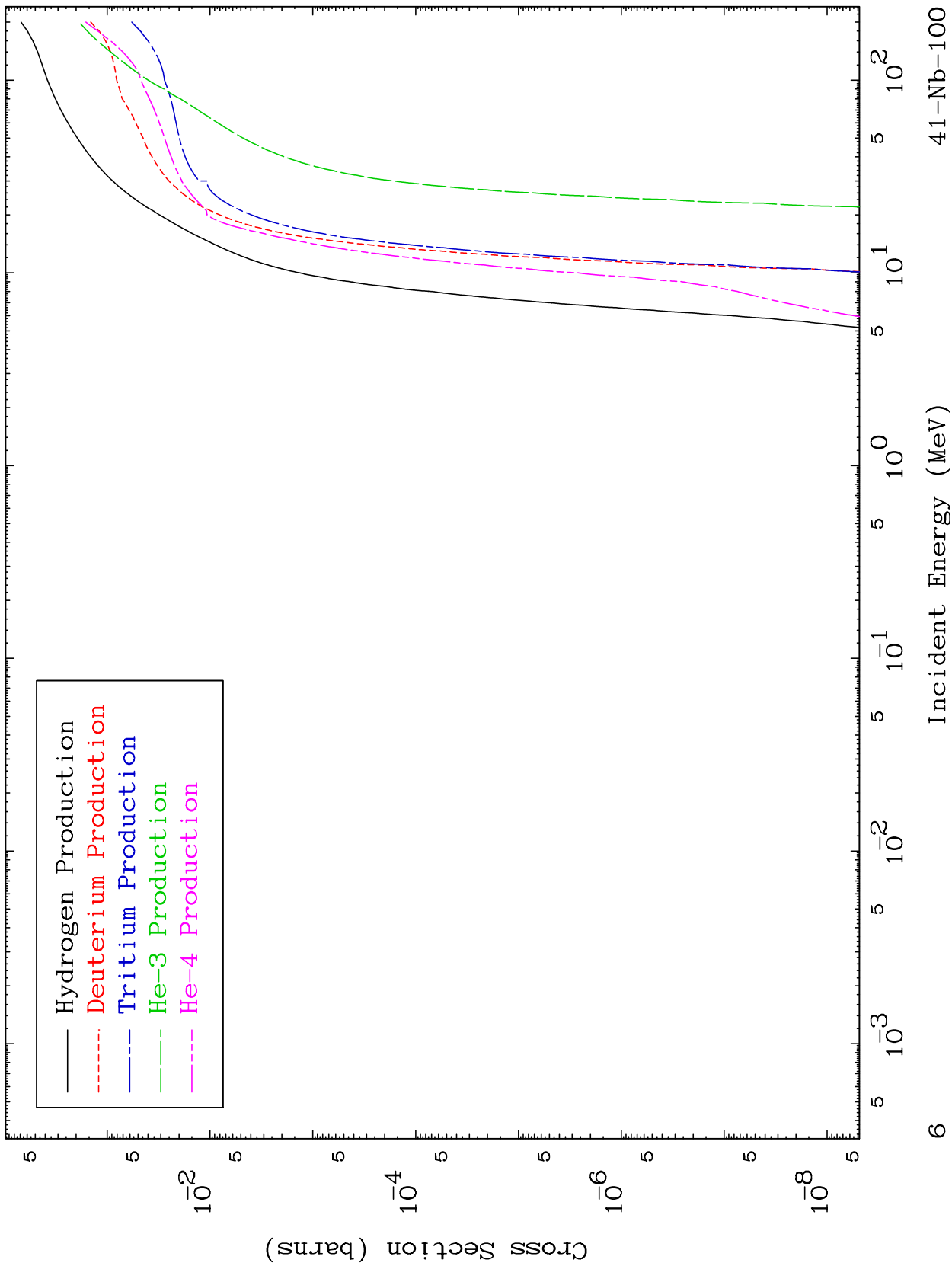
41-Nb-100



MAT 4147

Particle Production  
293 Kelvin Cross Sections

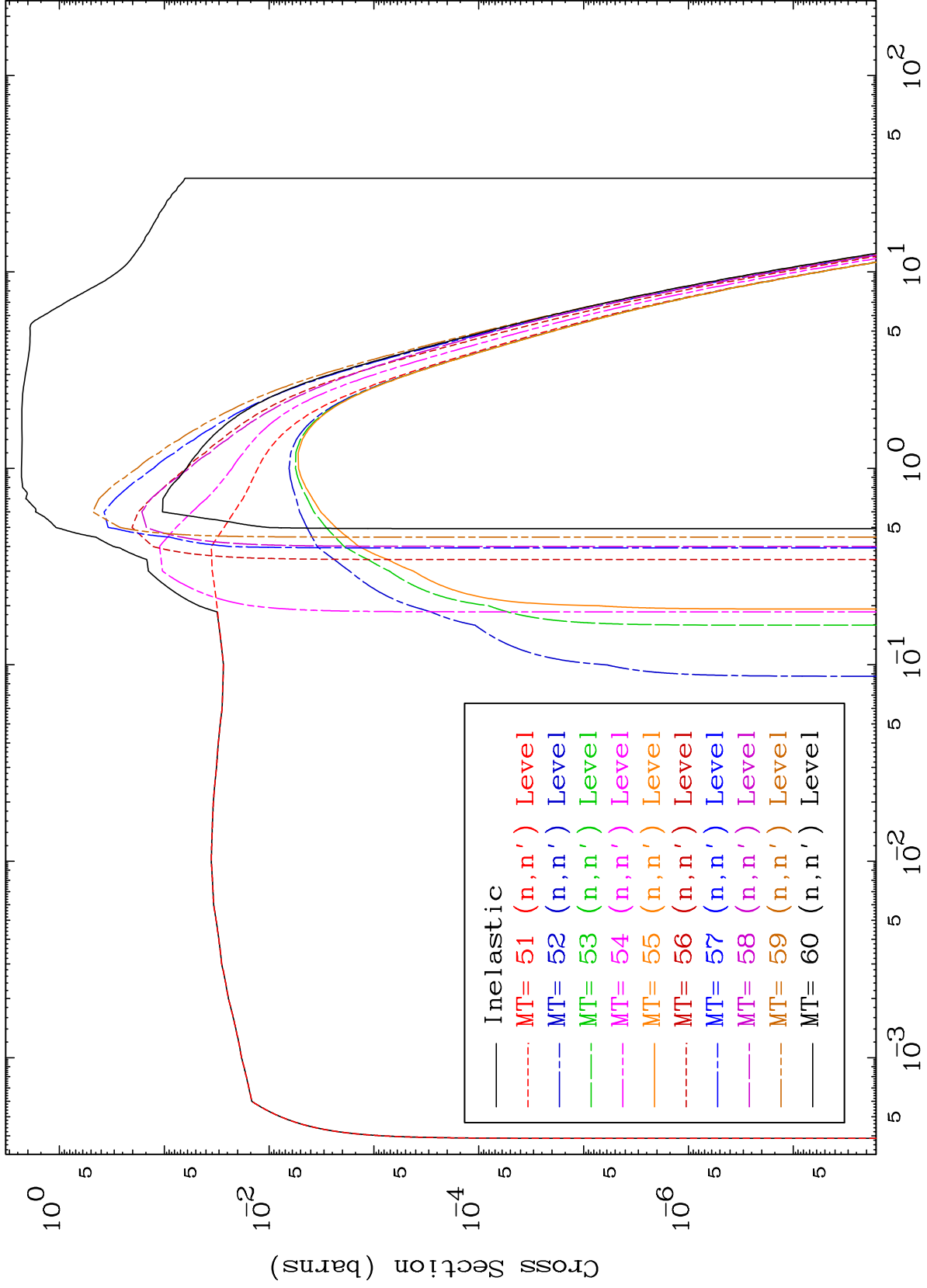
41-Nb-100



MAT 4147

293 Kelvin Cross Sections  
(n,n') Level

41-Nb-100



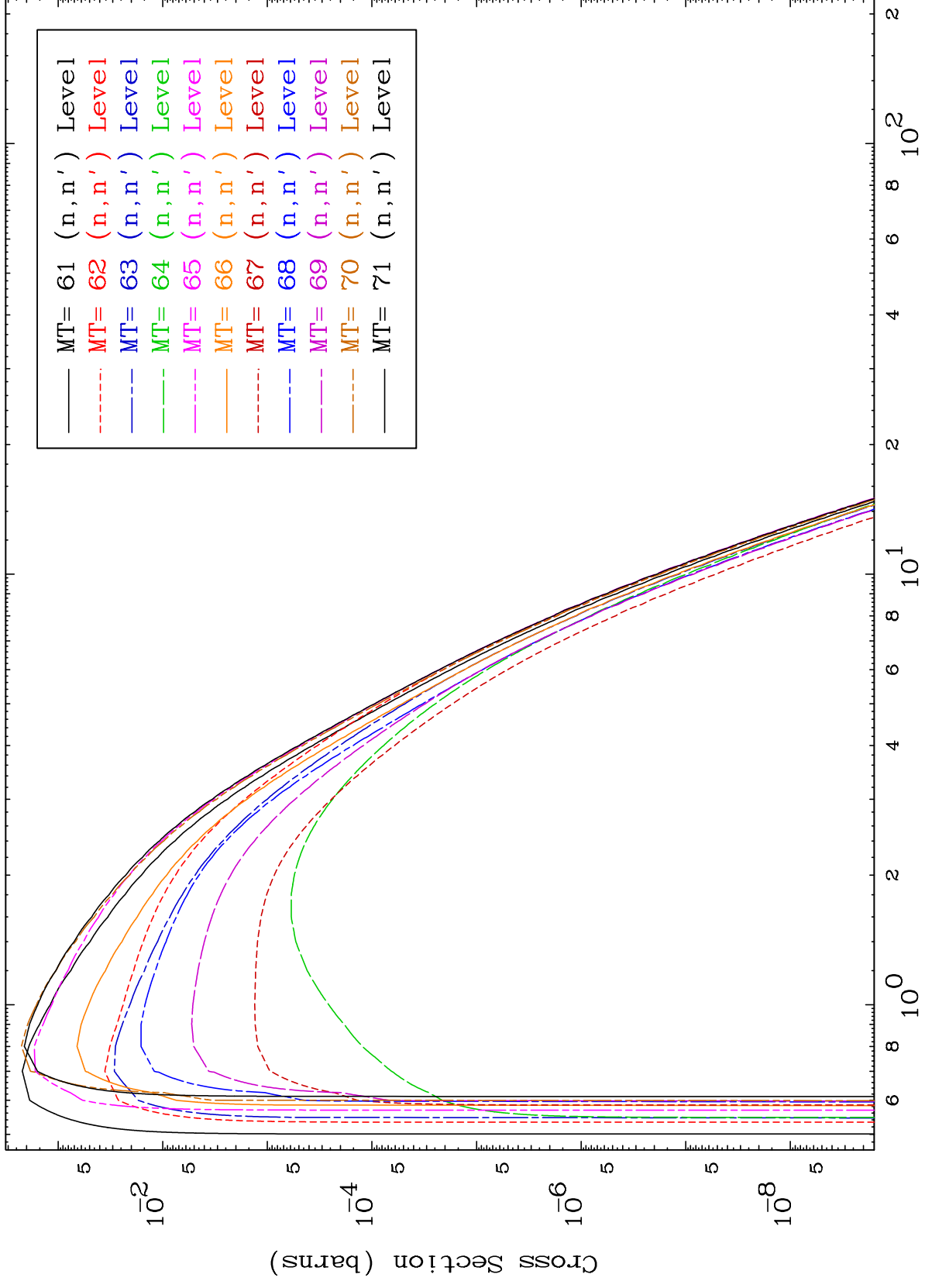


MAT 4147

(n,n') Level

41-Nb-100

293 Kelvin Cross Sections



8

Incident Energy (MeV)

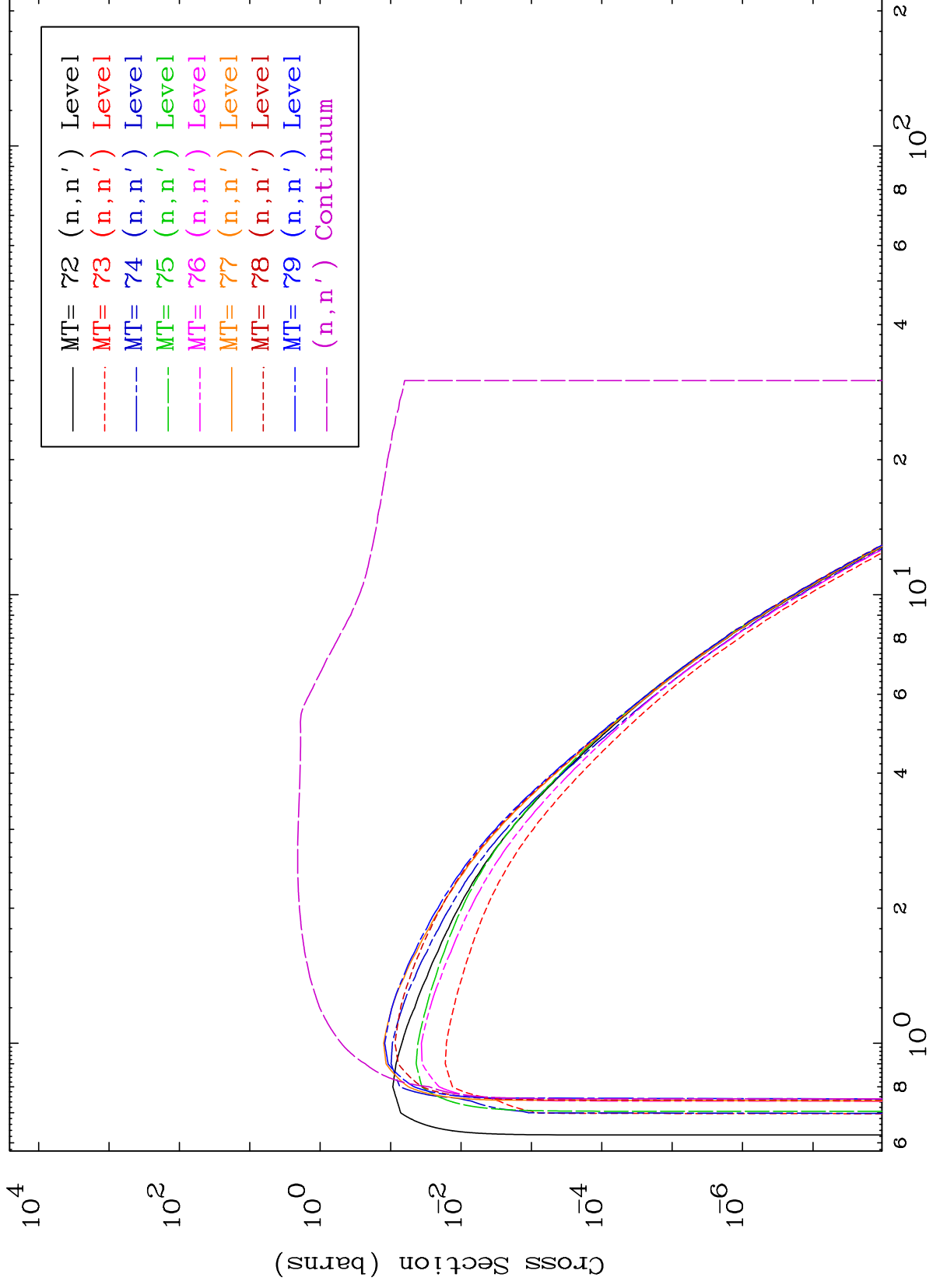
41-Nb-100

MAT 4147

(n,n') Level

41-Nb-100

293 Kelvin Cross Sections



9

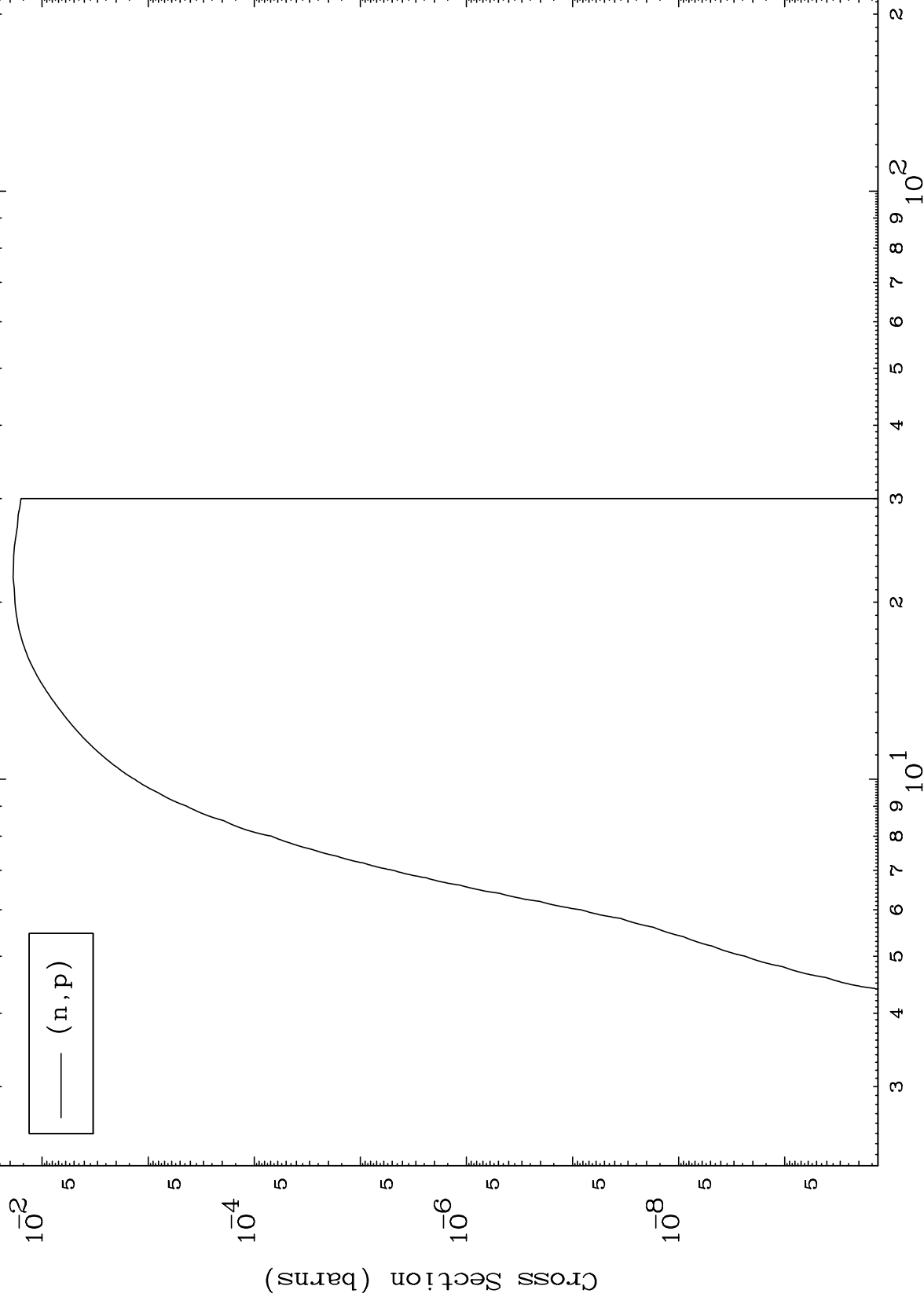
Incident Energy (MeV)

41-Nb-100

MAT 4147

(n,p) Levels  
293 Kelvin Cross Sections

41-Nb-100



10

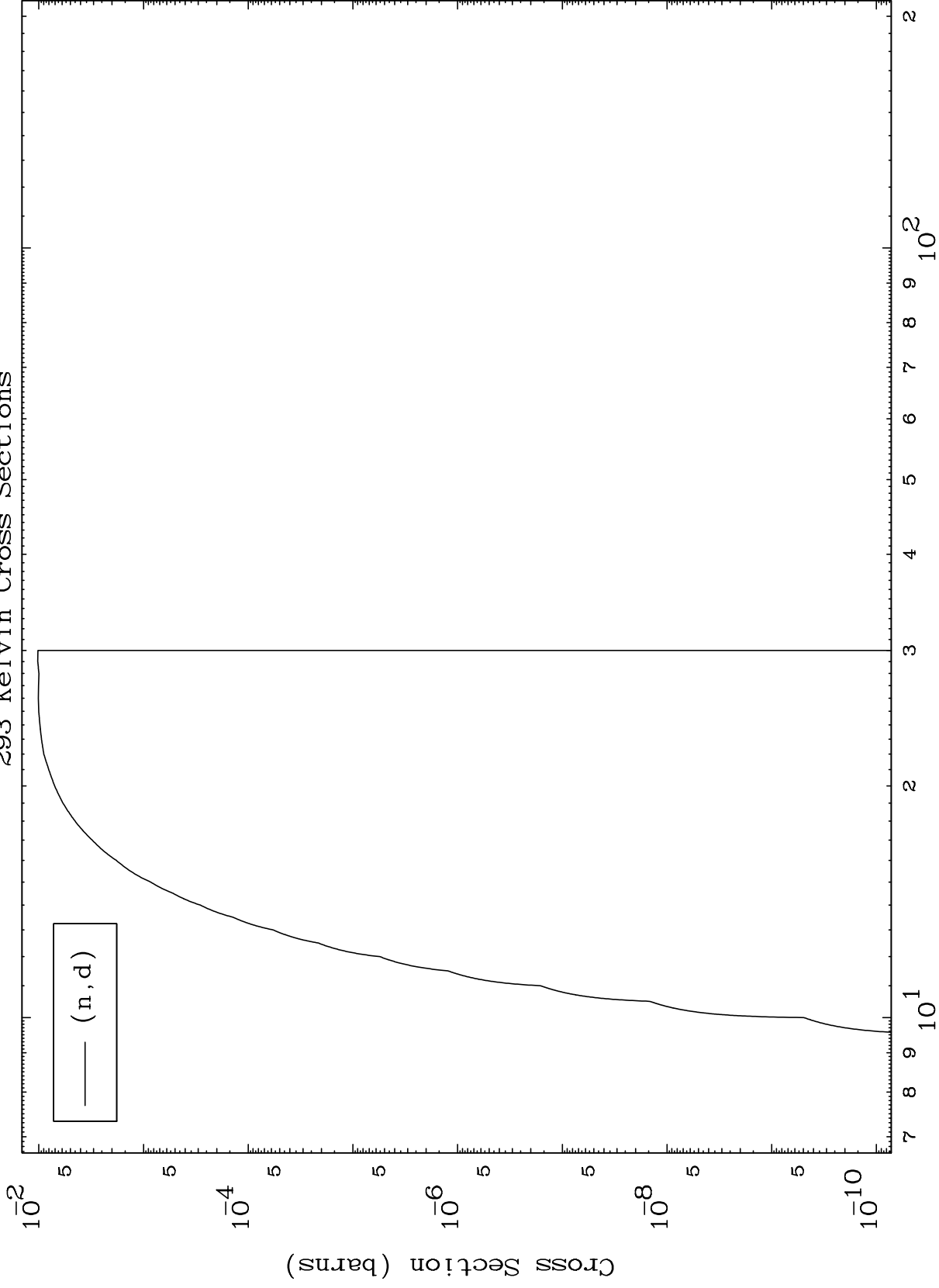
Incident Energy (MeV)

41-Nb-100

MAT 4147

(n,d) Levels  
293 Kelvin Cross Sections

41-Nb-100



11

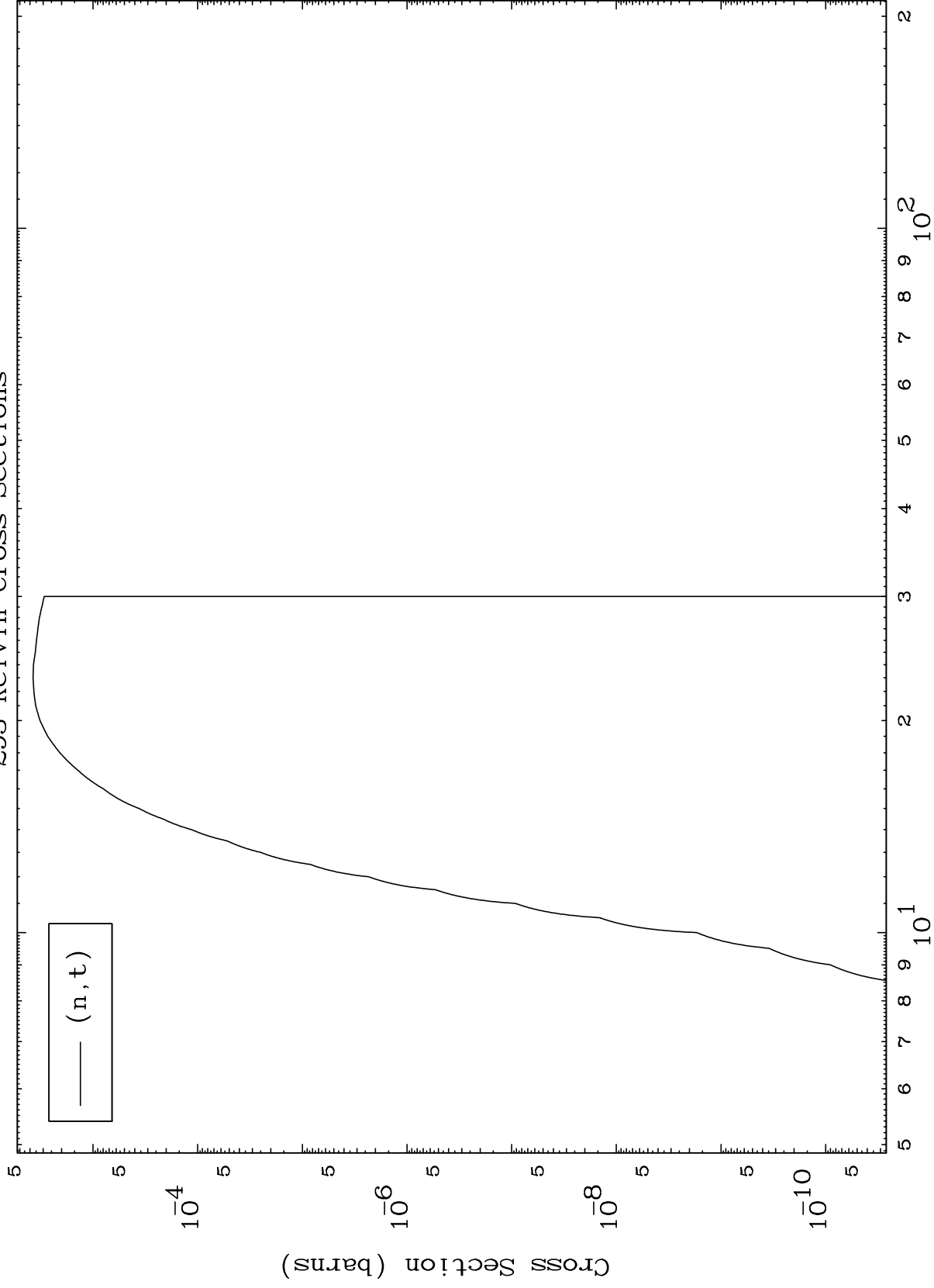
Incident Energy (MeV)

41-Nb-100

MAT 4147

(n,t) Levels  
293 Kelvin Cross Sections

41-Nb-100



12

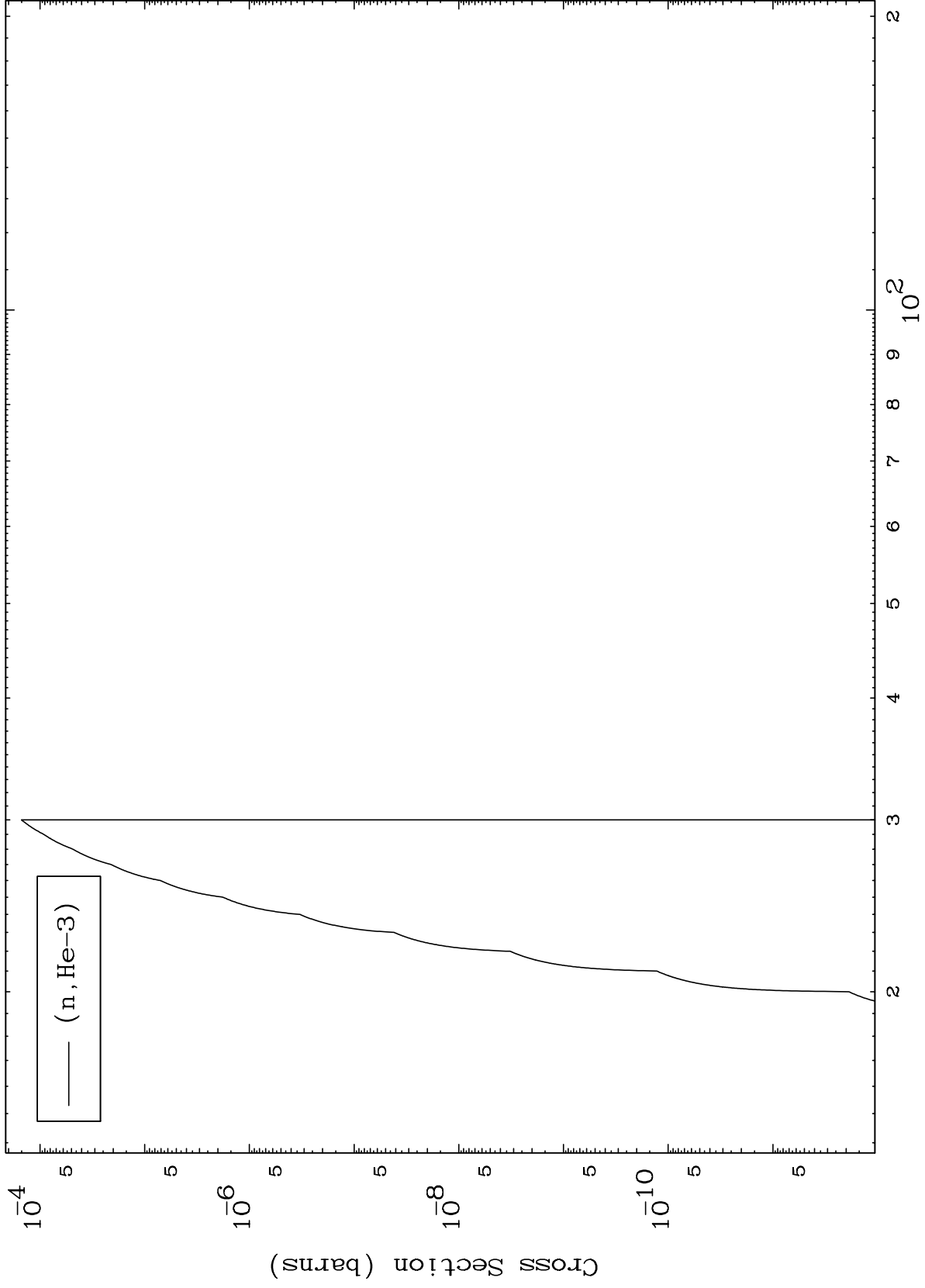
Incident Energy (MeV)

41-Nb-100

MAT 4147

(n,He3) Levels  
293 Kelvin Cross Sections

41-Nb-100



13

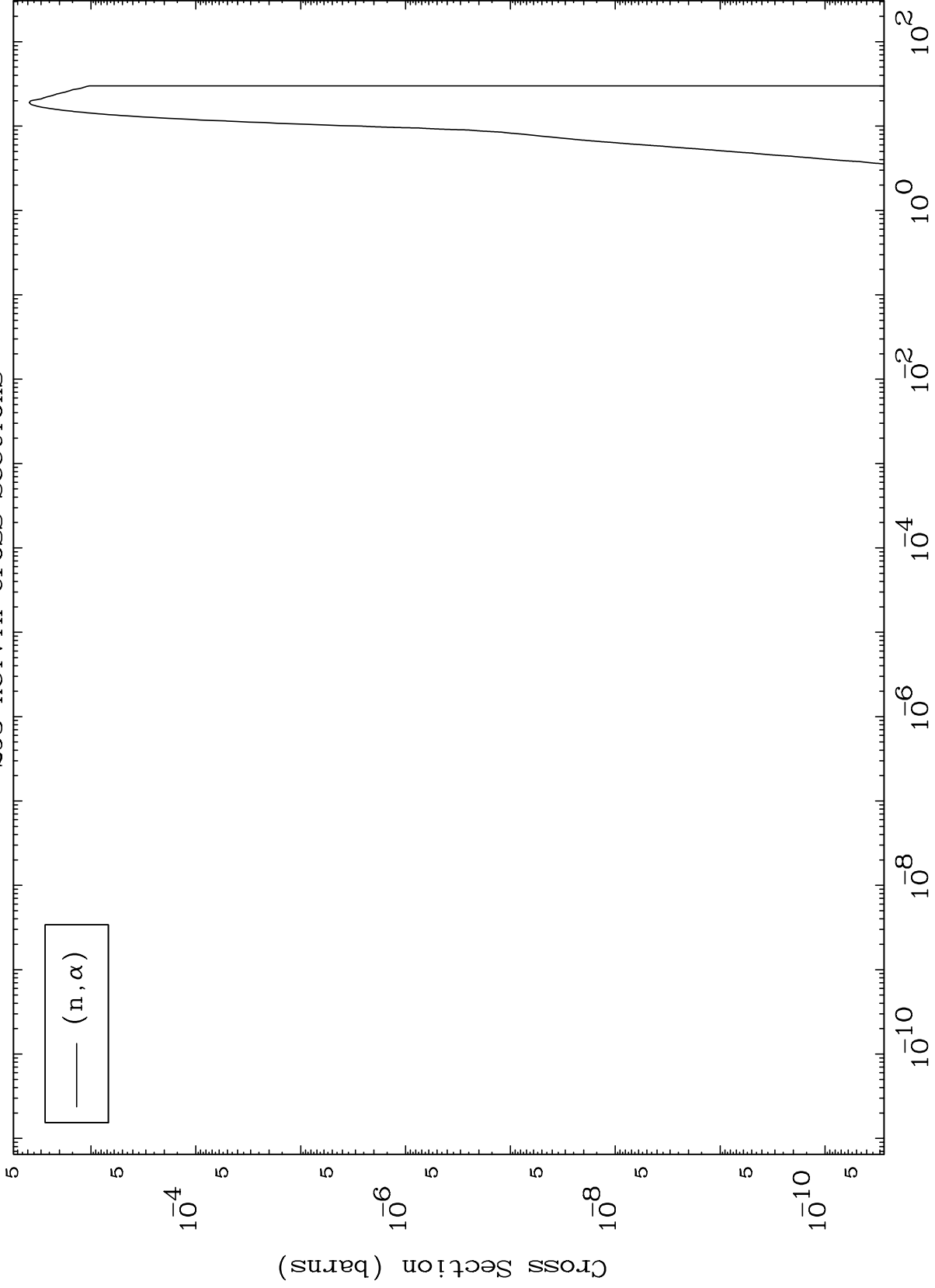
Incident Energy (MeV)

41-Nb-100

MAT 4147

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

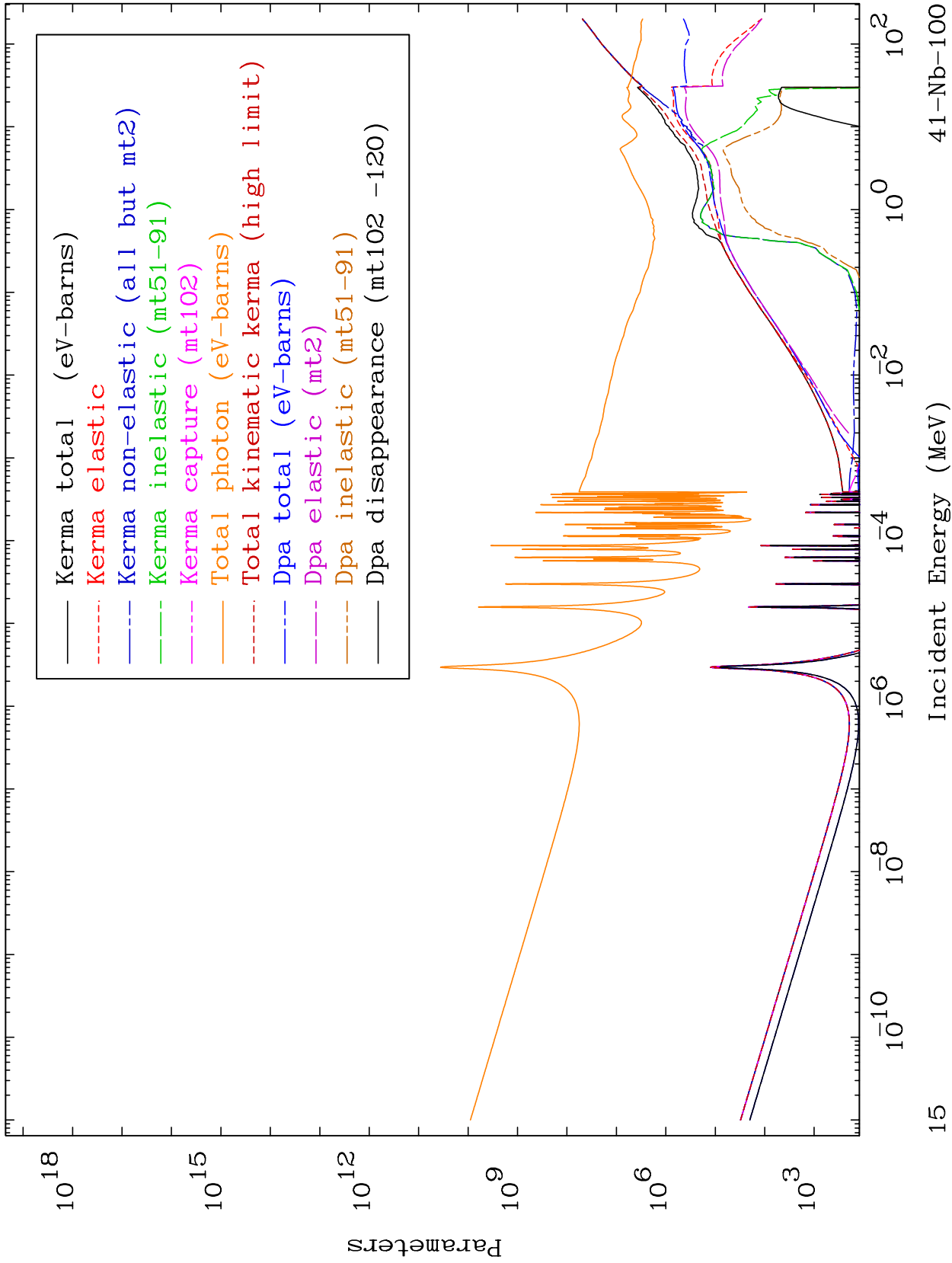
41-Nb-100



14

Incident Energy (MeV)

41-Nb-100

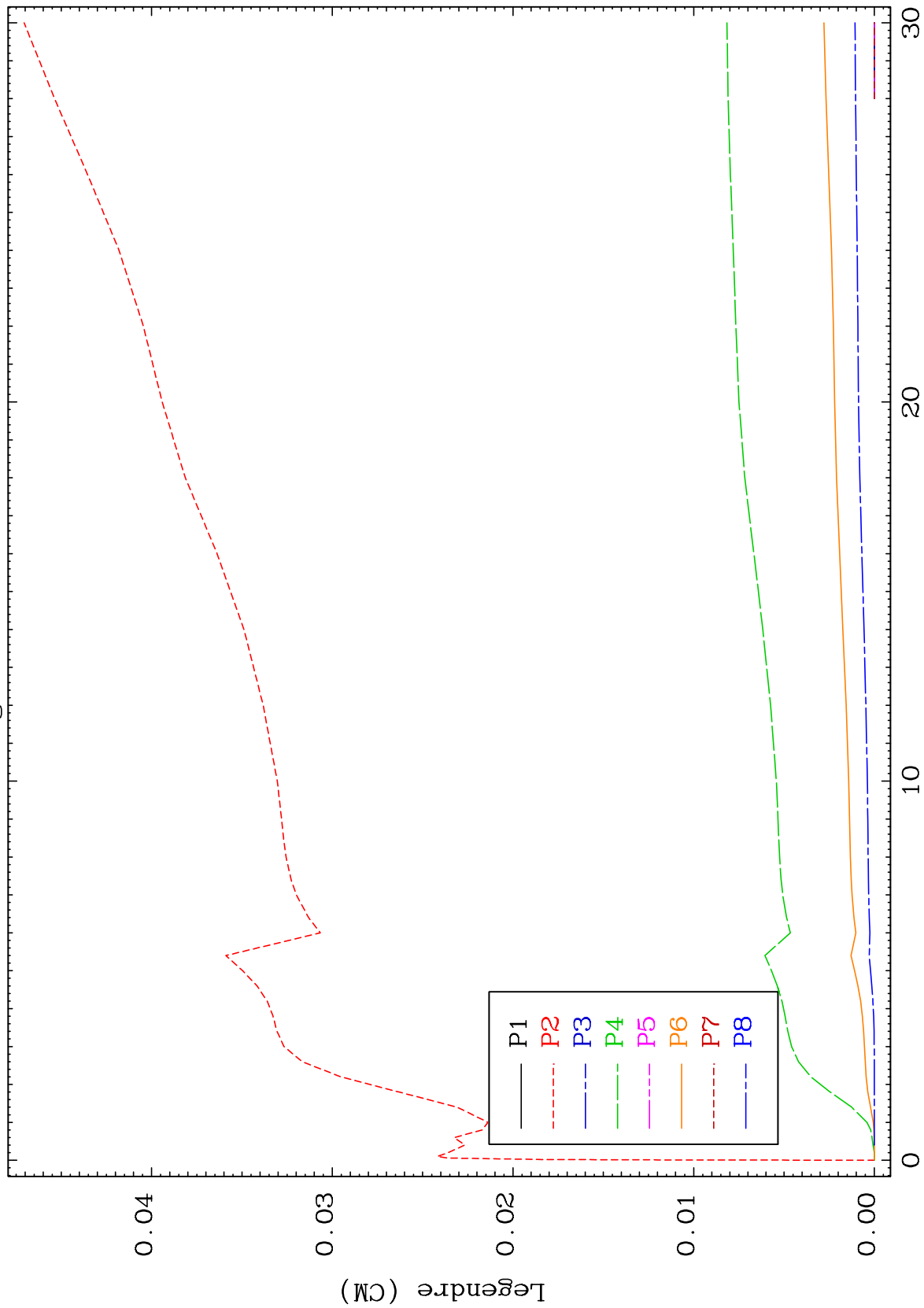




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Elastic  
Legendre Coefficients

41-Nb-100



16

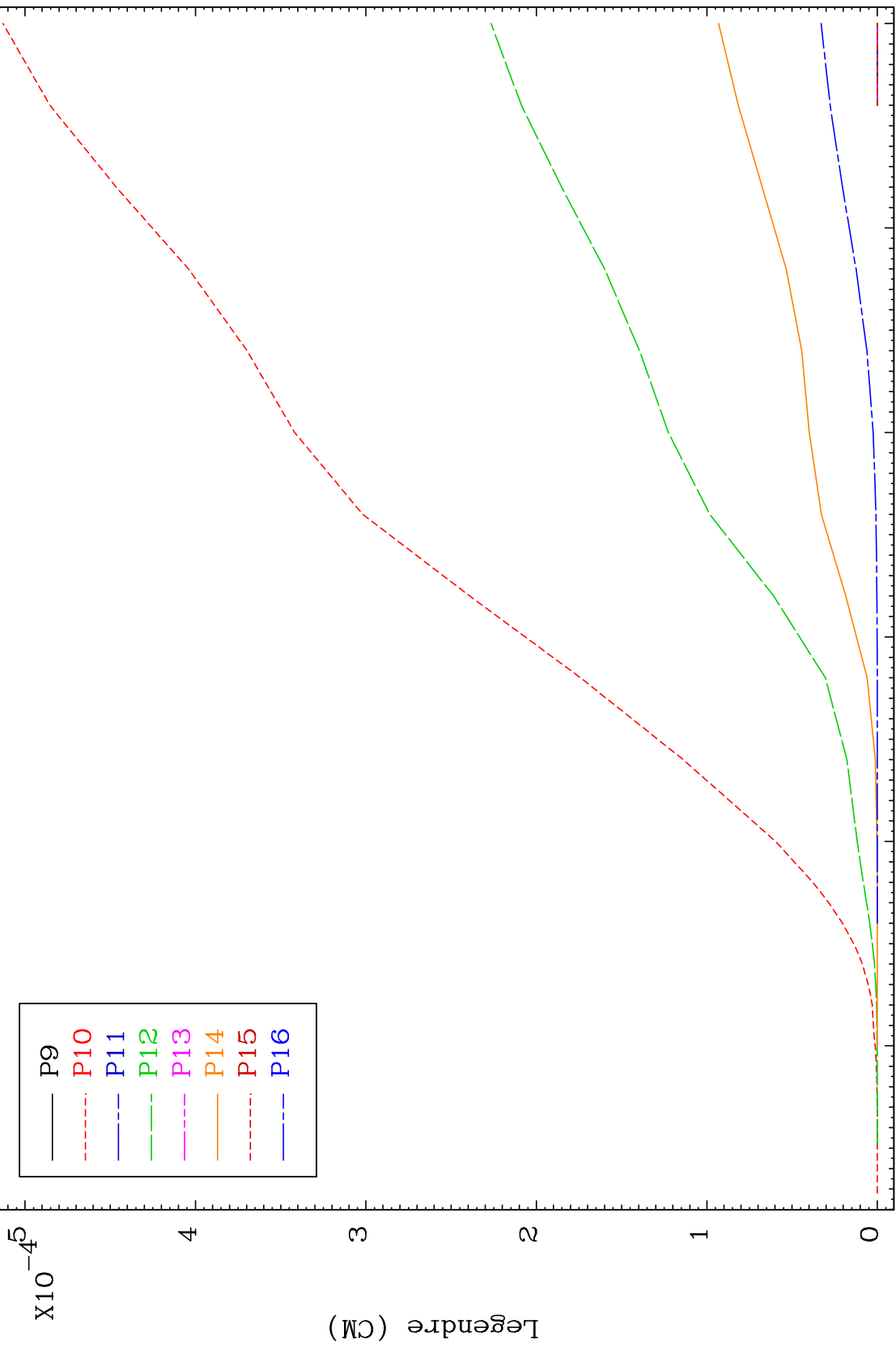
Incident Energy (MeV)

41-Nb-100

MAT 4147

Elastic Legendre Coefficients

41-Nb-100



17

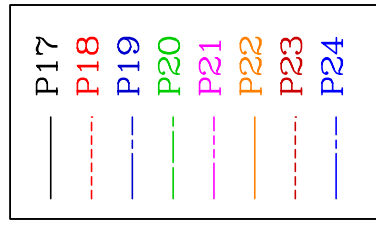
Incident Energy (MeV)

41-Nb-100

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Elastic  
Legendre Coefficients

41-Nb-100



$\times 10^{-6}$

Legendre (CM)

3

2

1

0

15

20

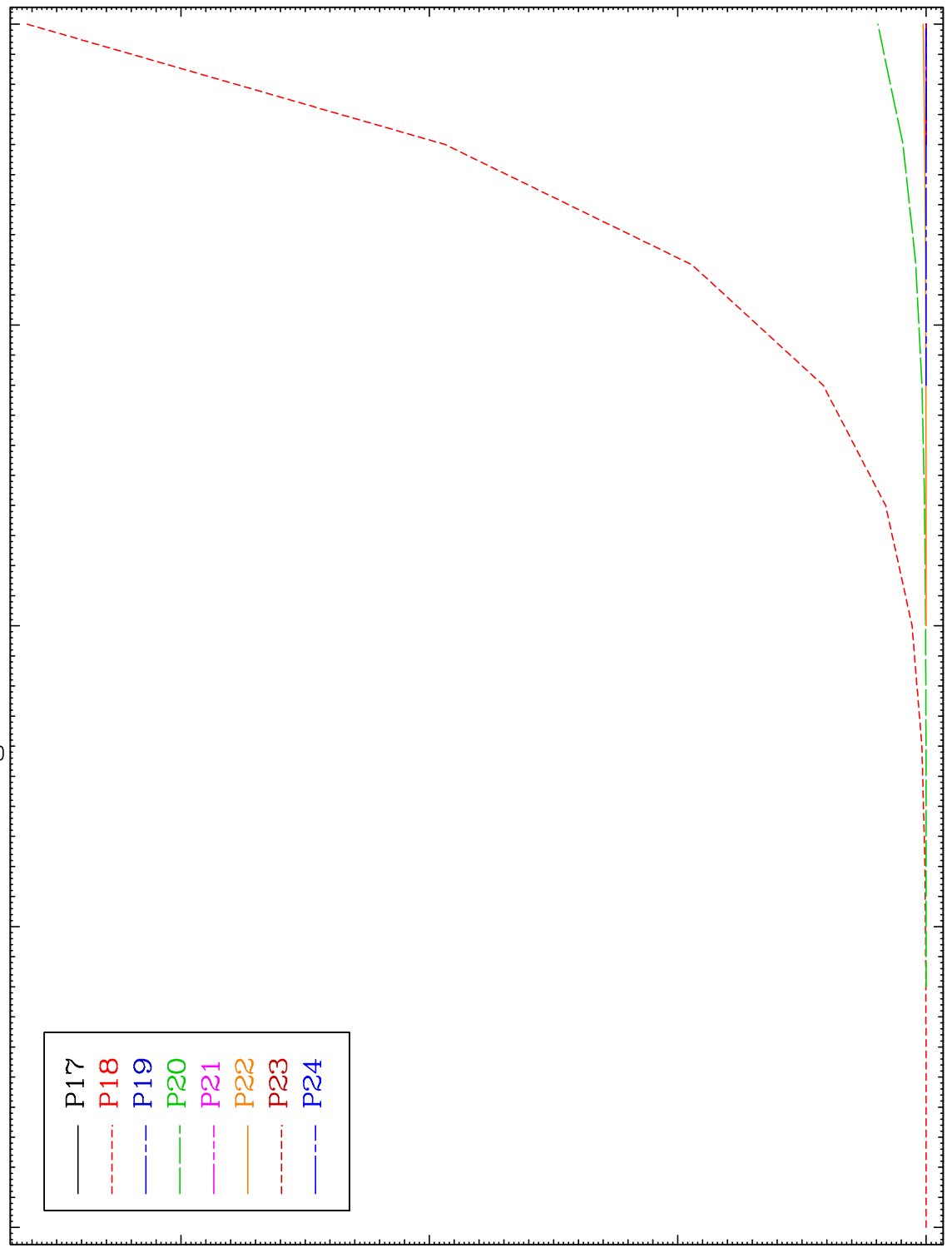
25

30

18

Incident Energy (MeV)

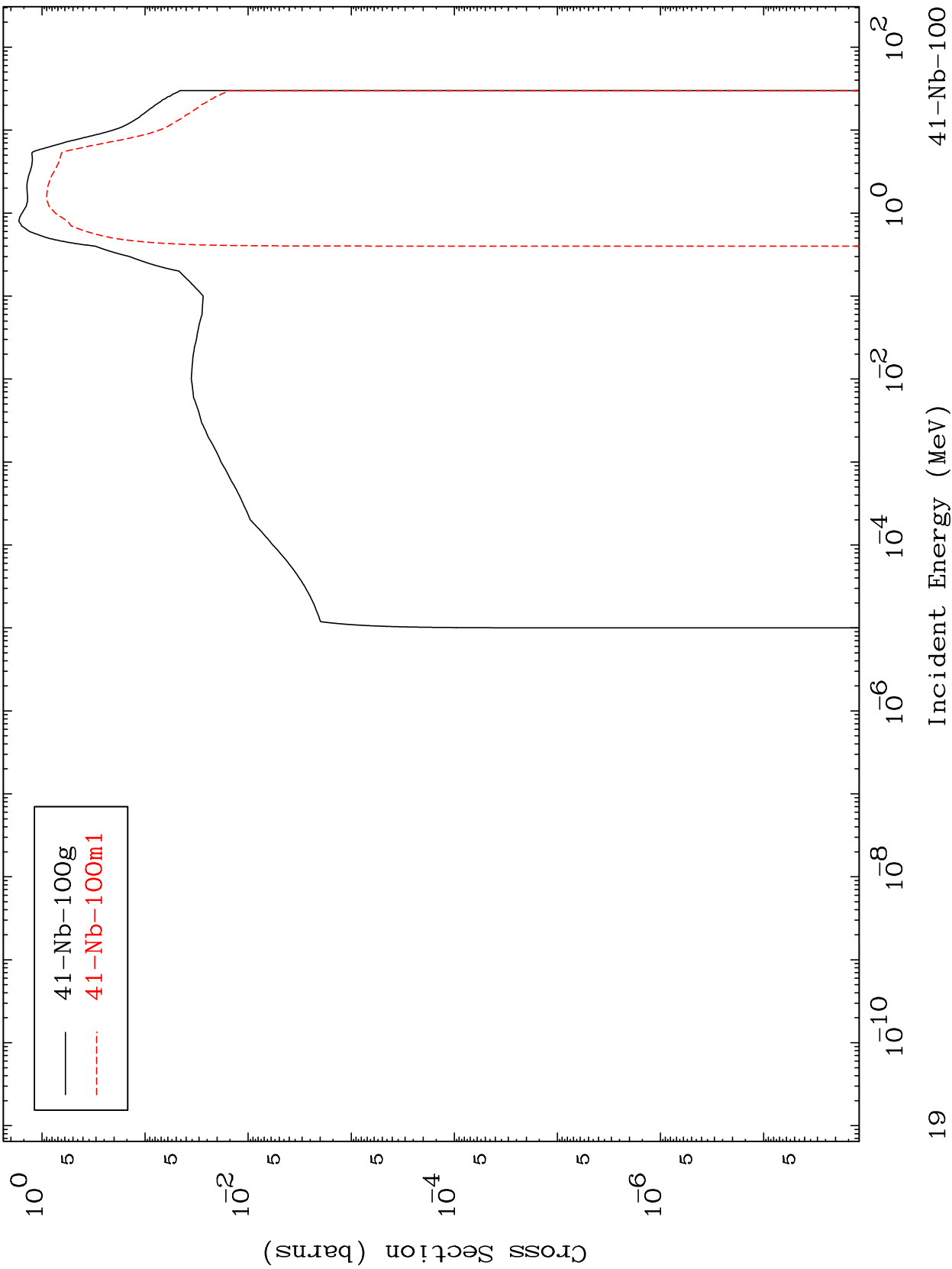
41-Nb-100



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Inelastic  
Radionuclide Production Cross Section

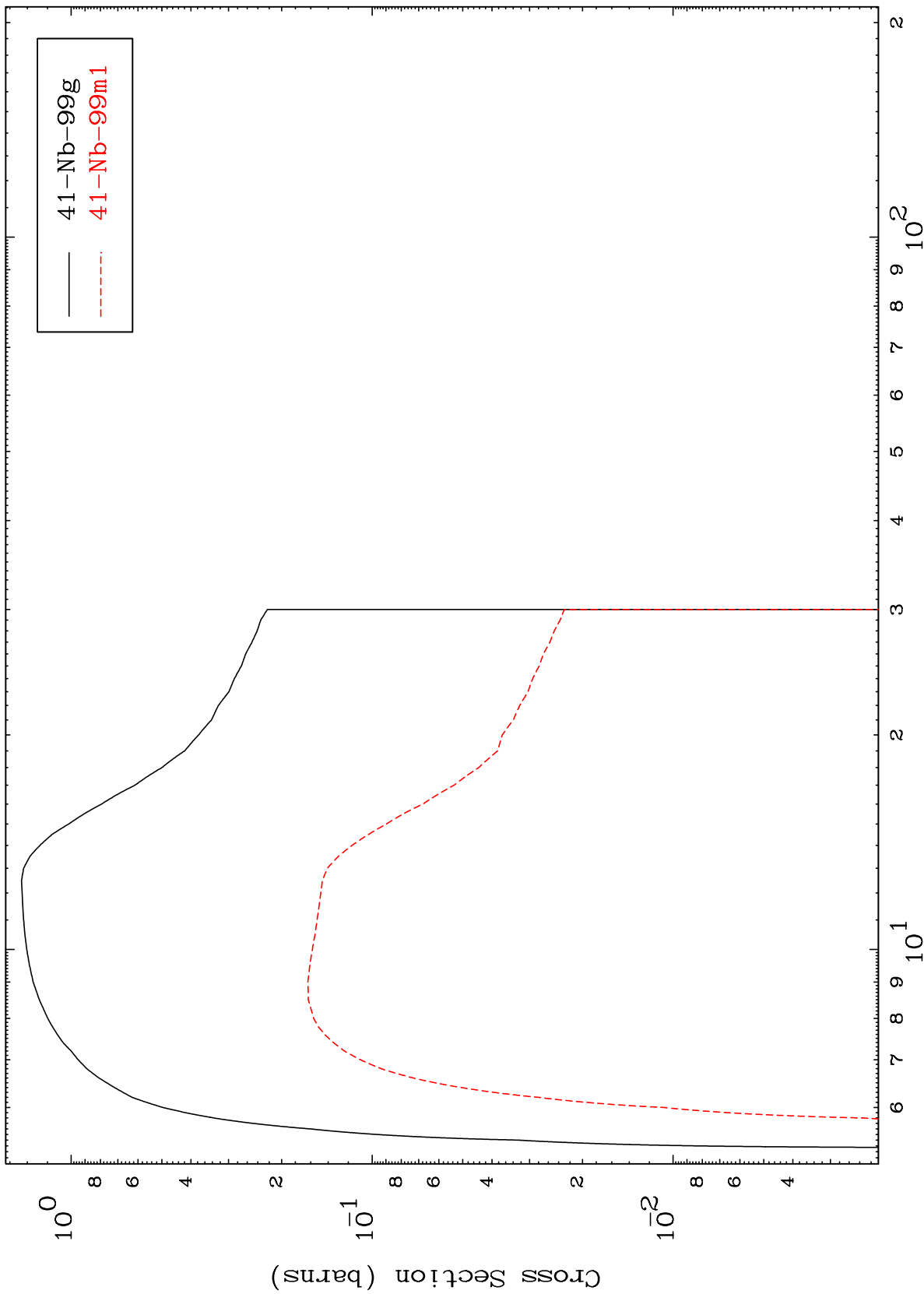
41-Nb-100



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41-Nb-100

(n,2n)  
Radionuclide Production Cross Section



20

Incident Energy (MeV)

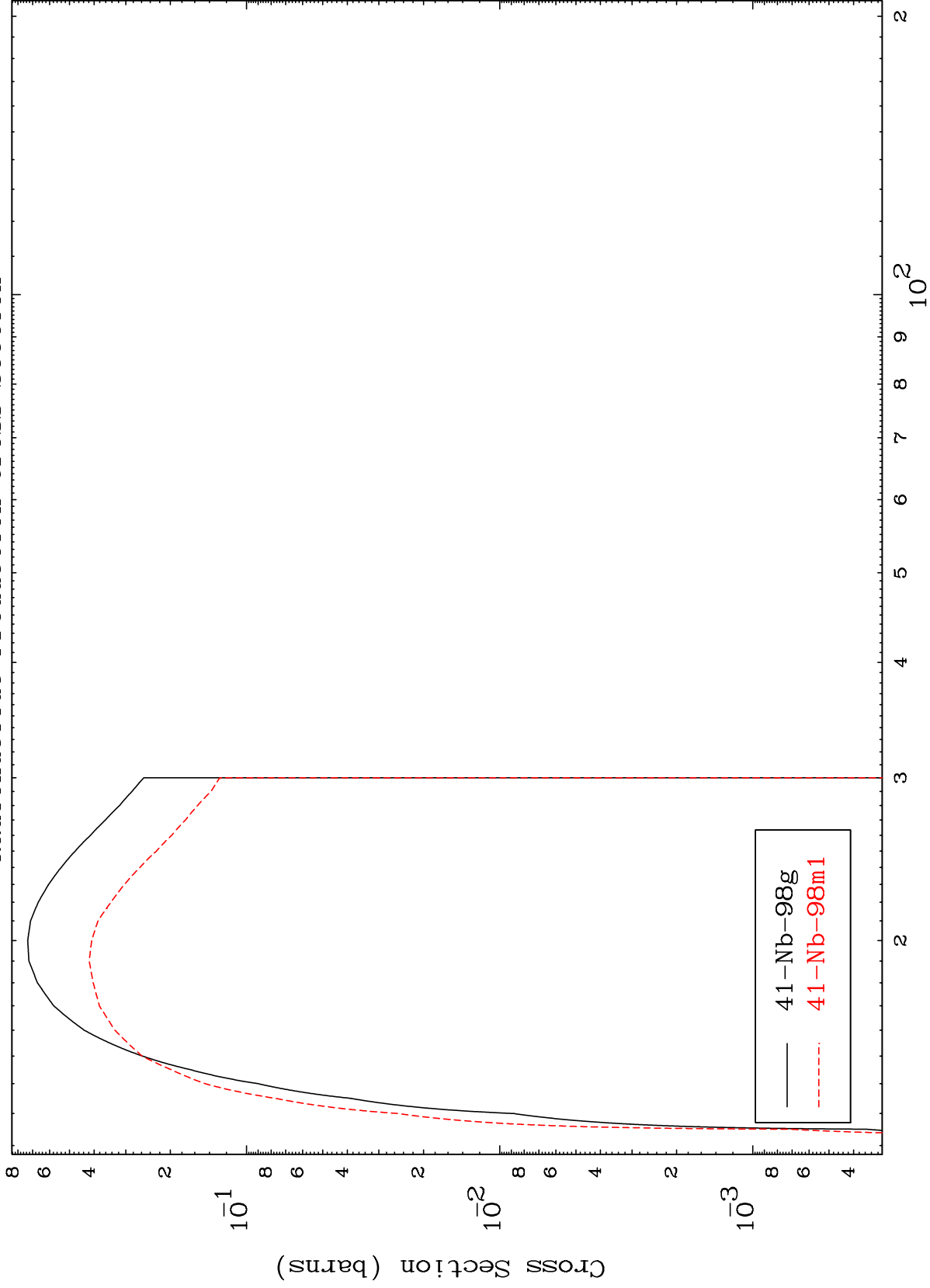
41-Nb-100

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(n,3n)

41-Nb-100

Radionuclide Production Cross Section



21

Incident Energy (MeV)

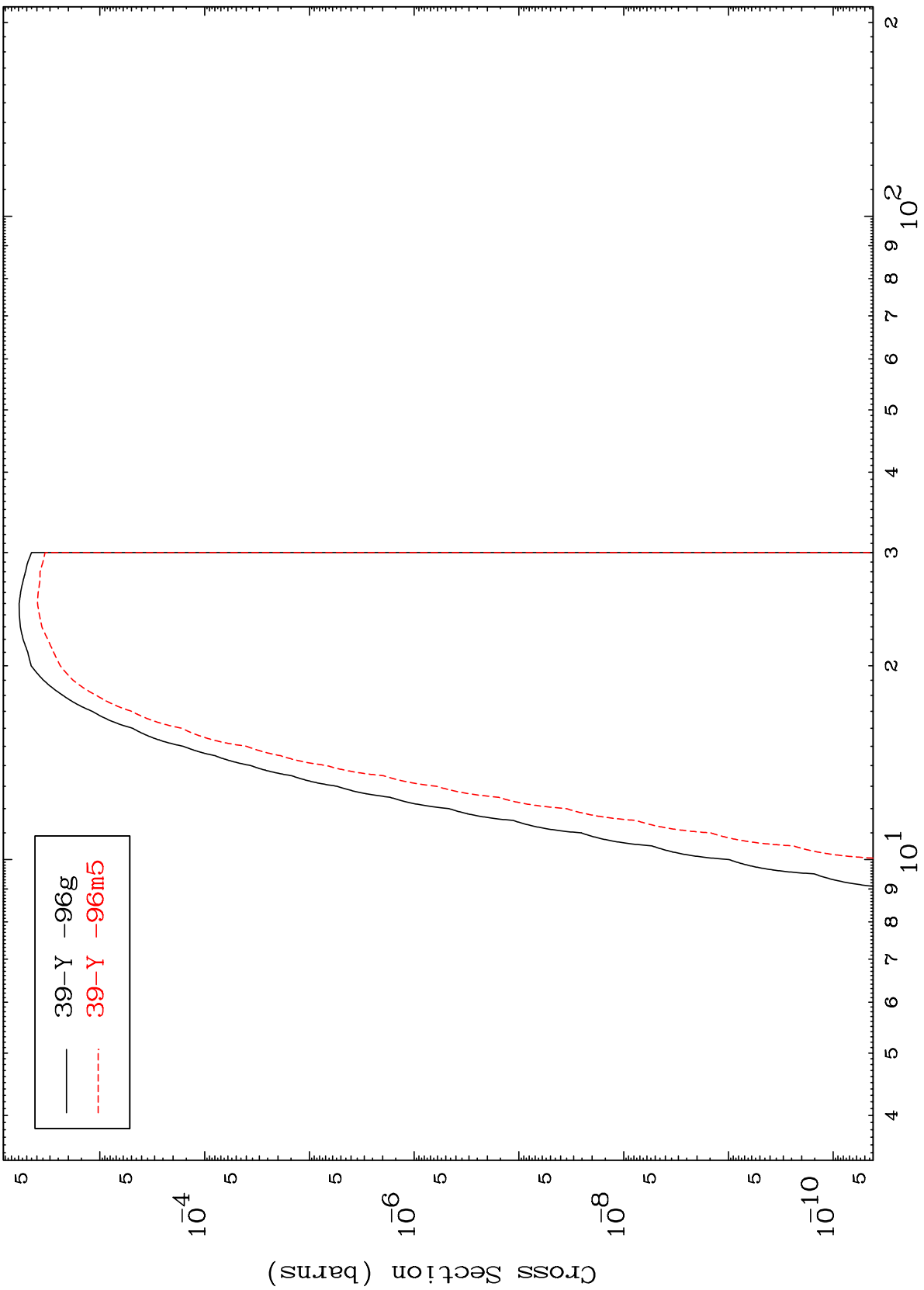
41-Nb-100

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$(n, n') \alpha$

41-Nb-100

Radionuclide Production Cross Section



— 39-Y -96g  
- - - 39-Y -96m5

22

Incident Energy (MeV)

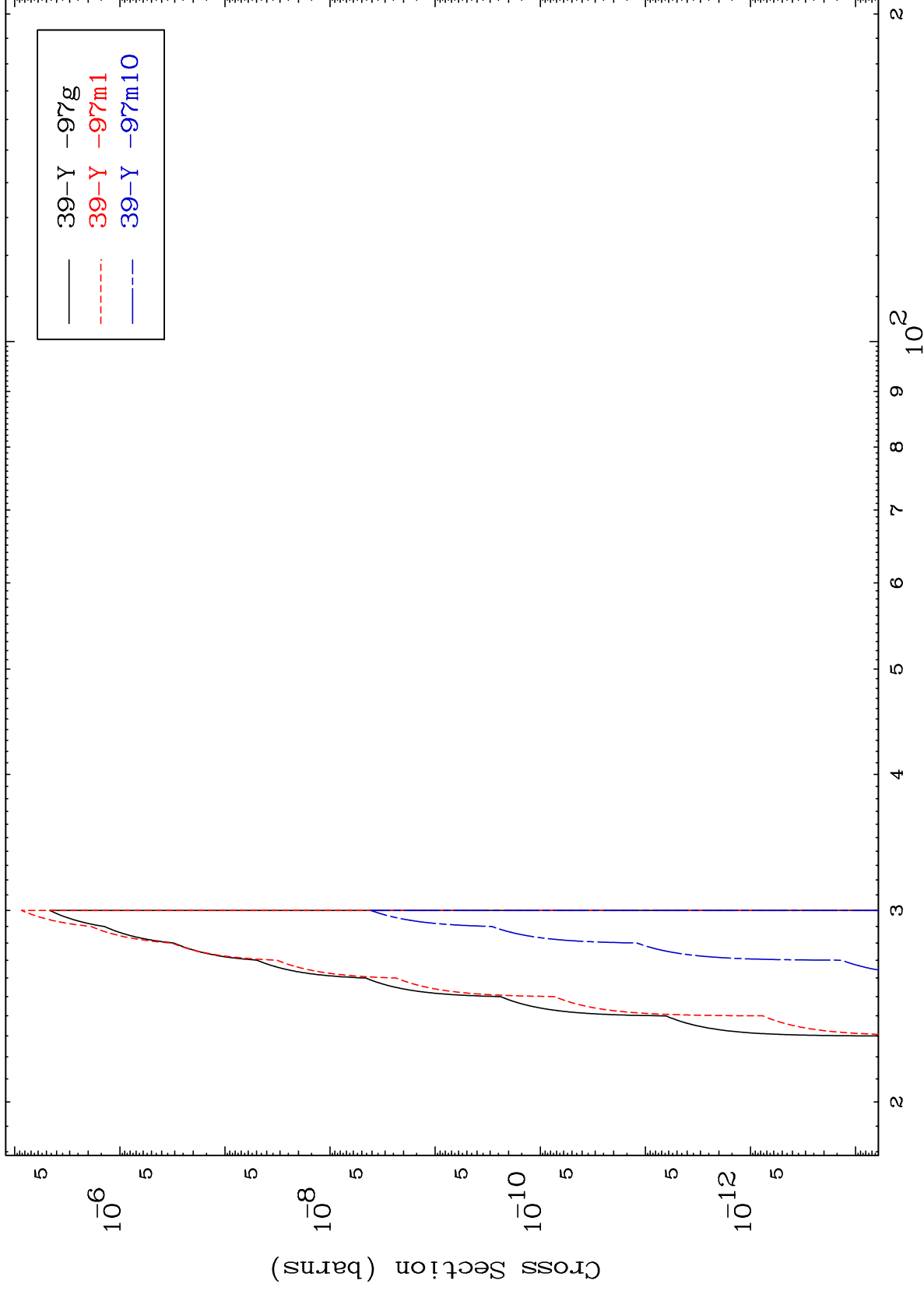
41-Nb-100

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(n,n') He-3

41-Nb-100

Radionuclide Production Cross Section



23

Incident Energy (MeV)

41-Nb-100

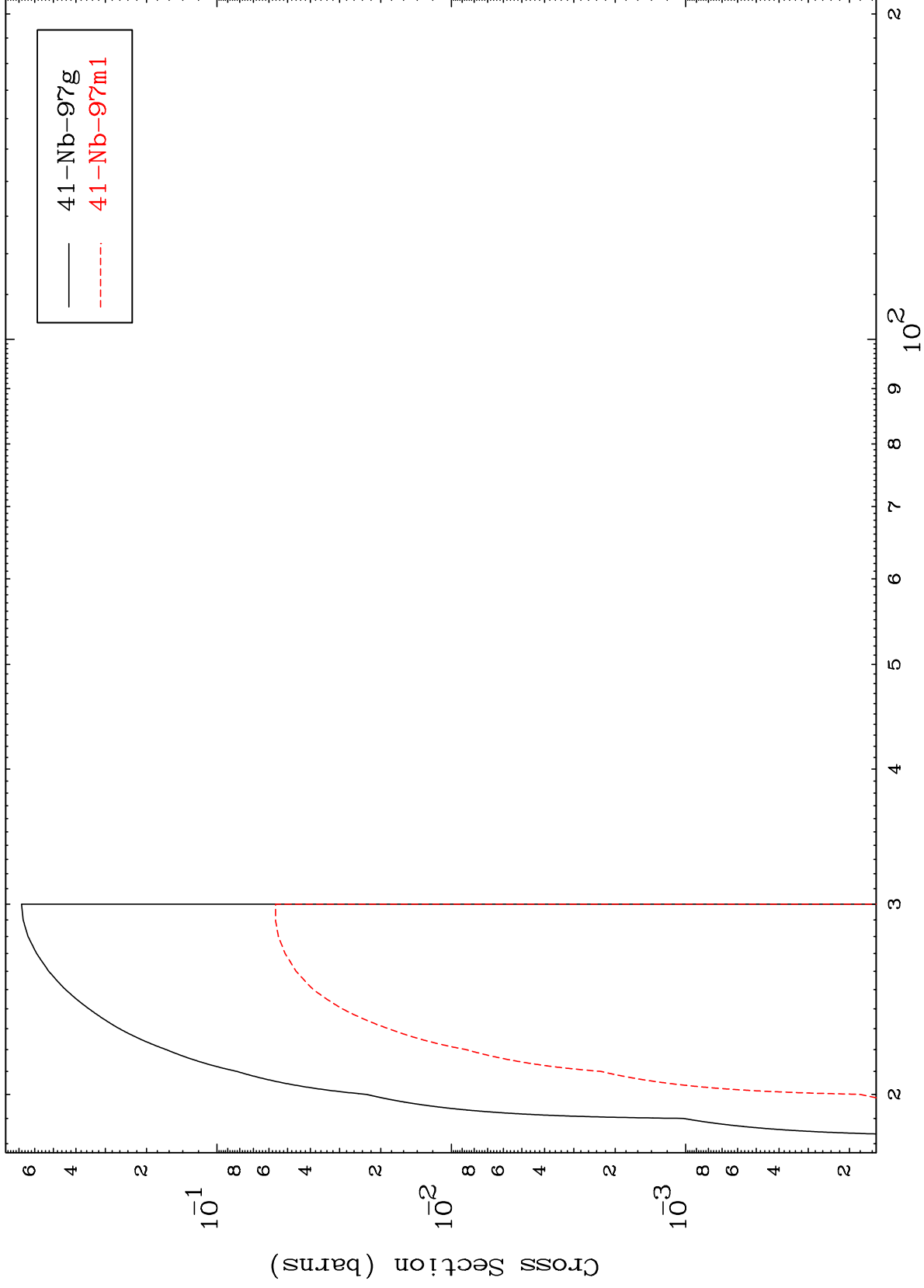


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(n,4n)

41-Nb-100

Radionuclide Production Cross Section



24

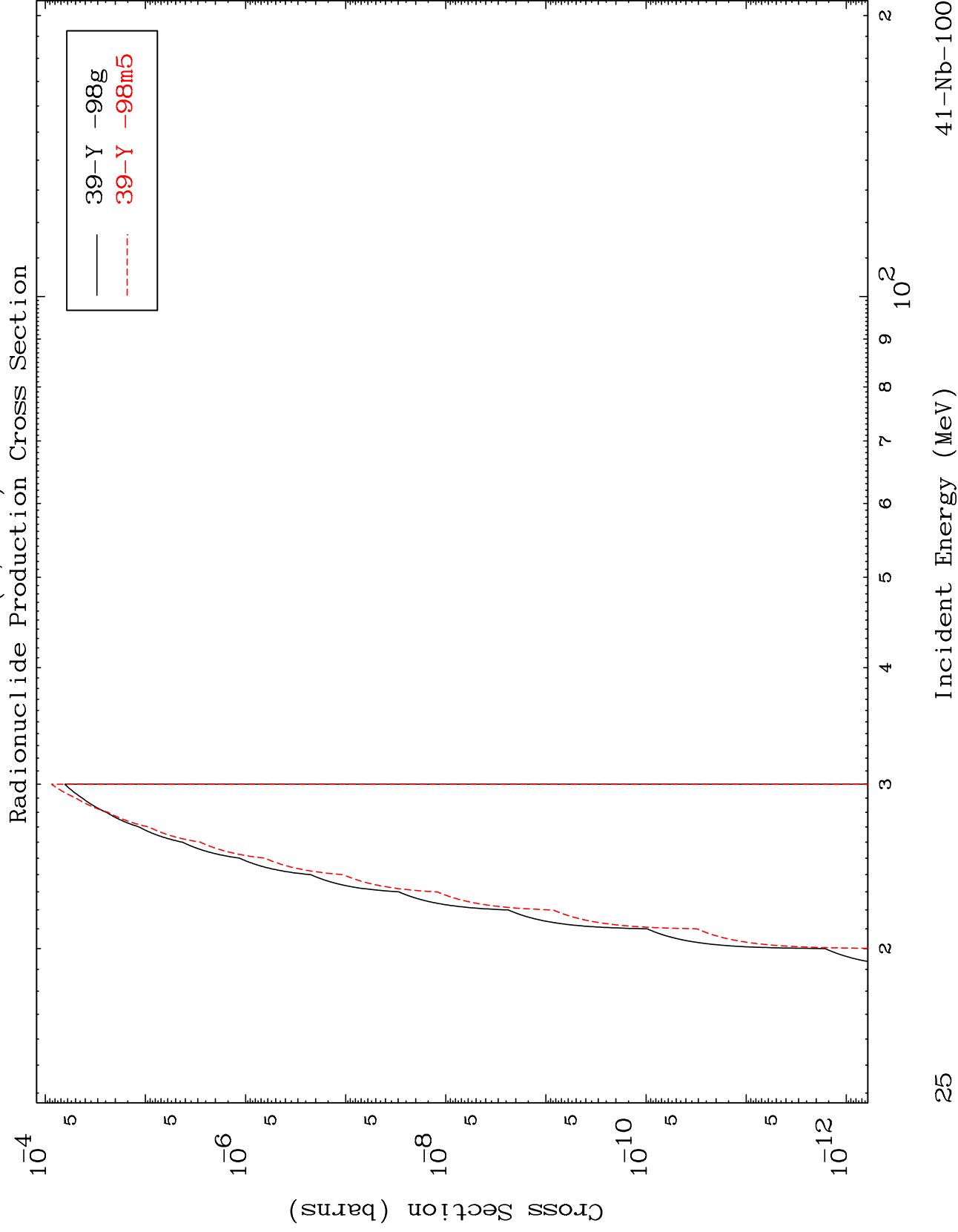
Incident Energy (MeV)

41-Nb-100

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(n,He-3)

41-Nb-100



25

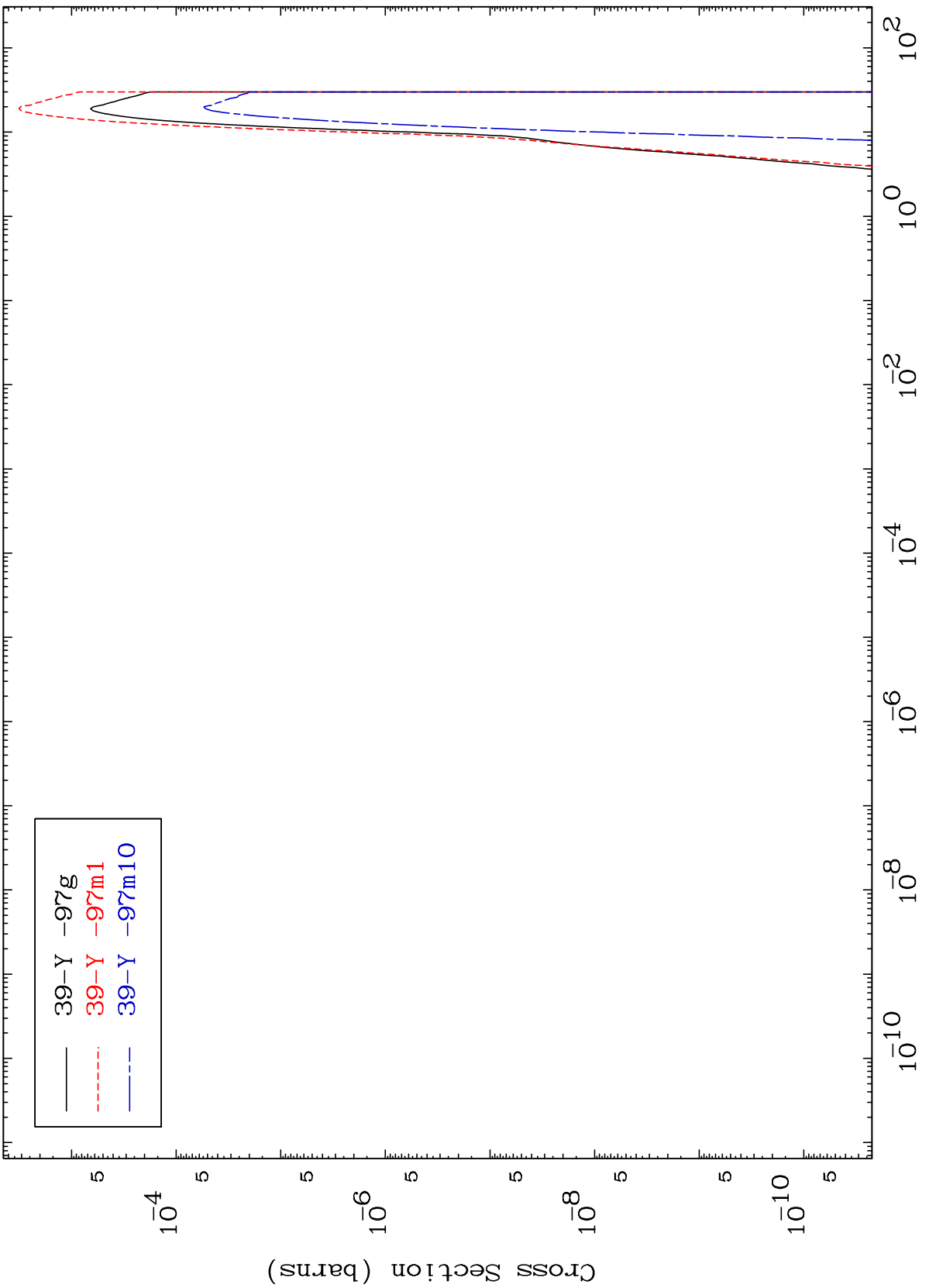
Incident Energy (MeV)

41-Nb-100

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41-Nb-100

Radionuclide Production Cross Section (n,α)



—	39-Y	-97g
- - -	39-Y	-97m1
- · -	39-Y	-97m10

Incident Energy (MeV)

41-Nb-100

26