

Program EVALPLOT  
(Version 2017-1)

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

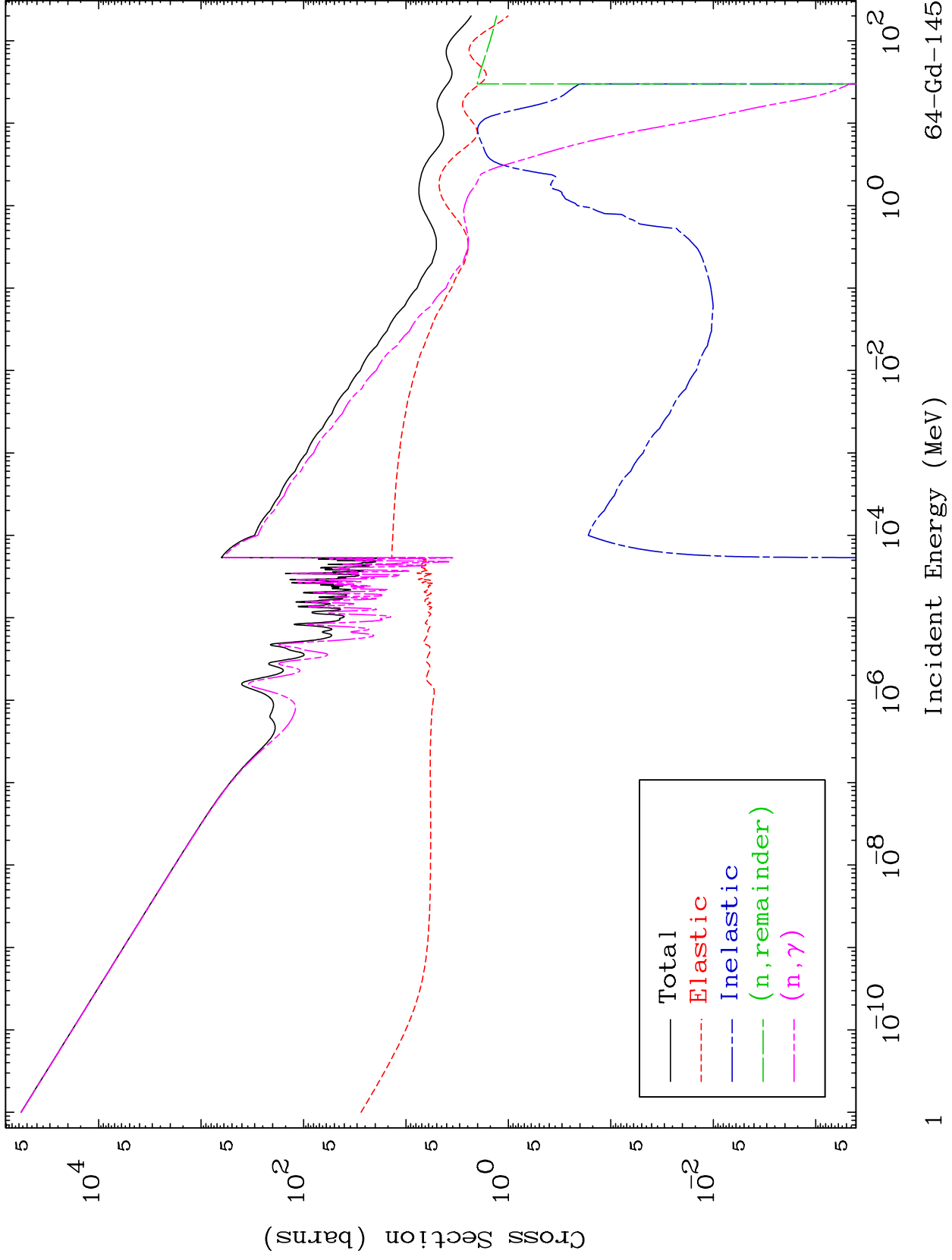
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6405

Major  
293 Kelvin Cross Sections

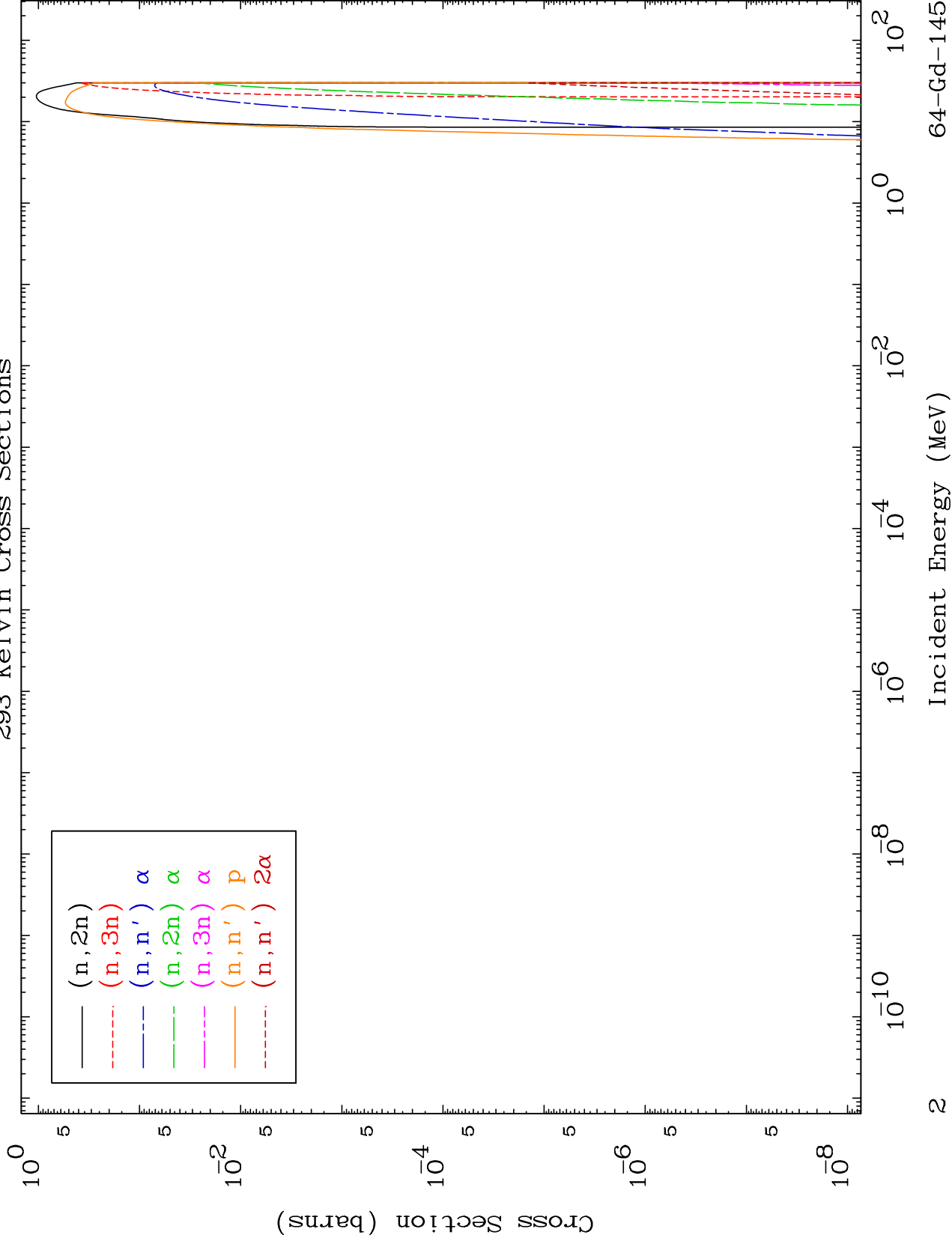
64-Gd-145



MAT 6405

Neutron Production  
293 Kelvin Cross Sections

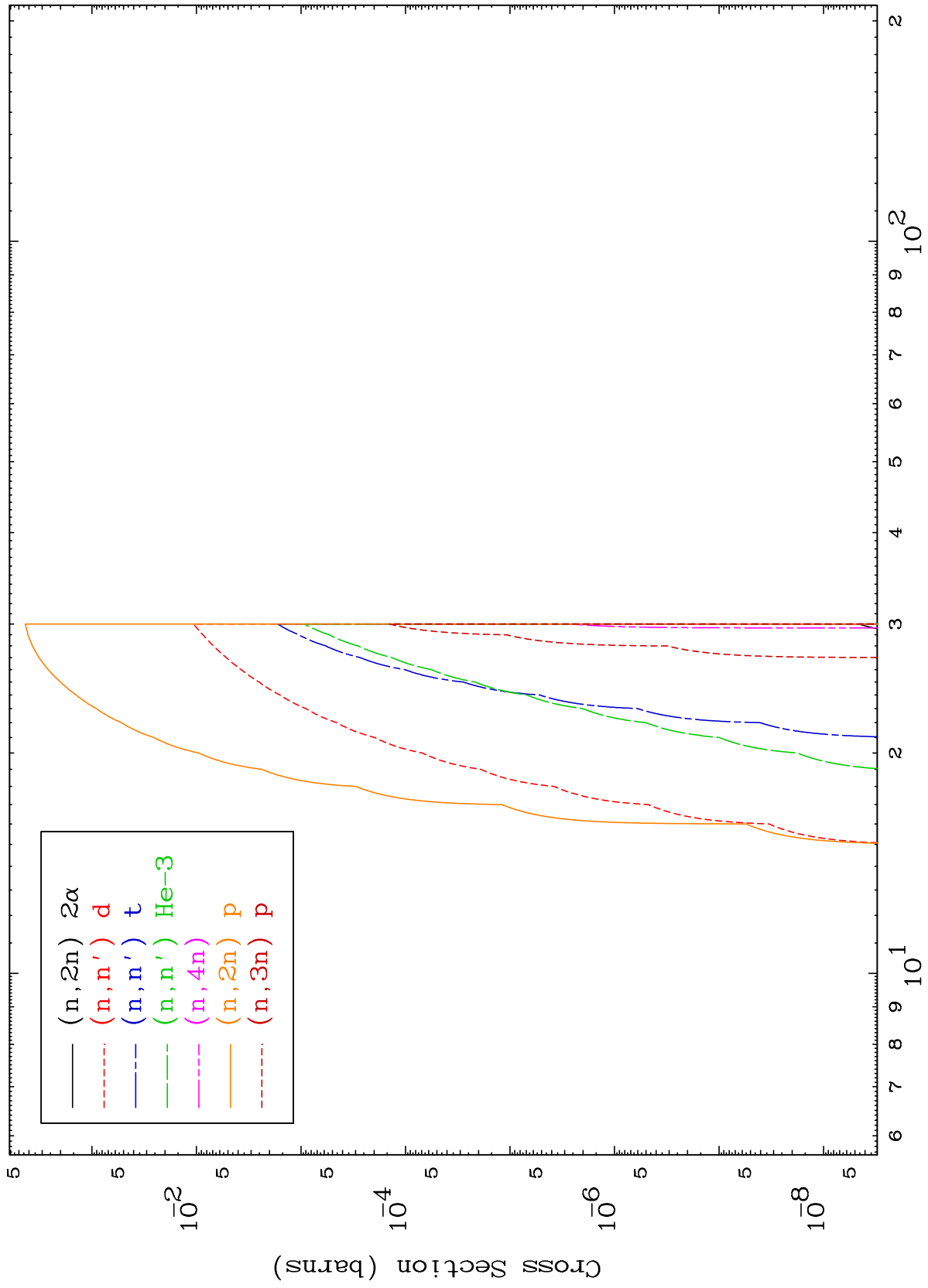
64-Gd-145



MAT 6405

Neutron Production  
293 Kelvin Cross Sections

64-Gd-145



3

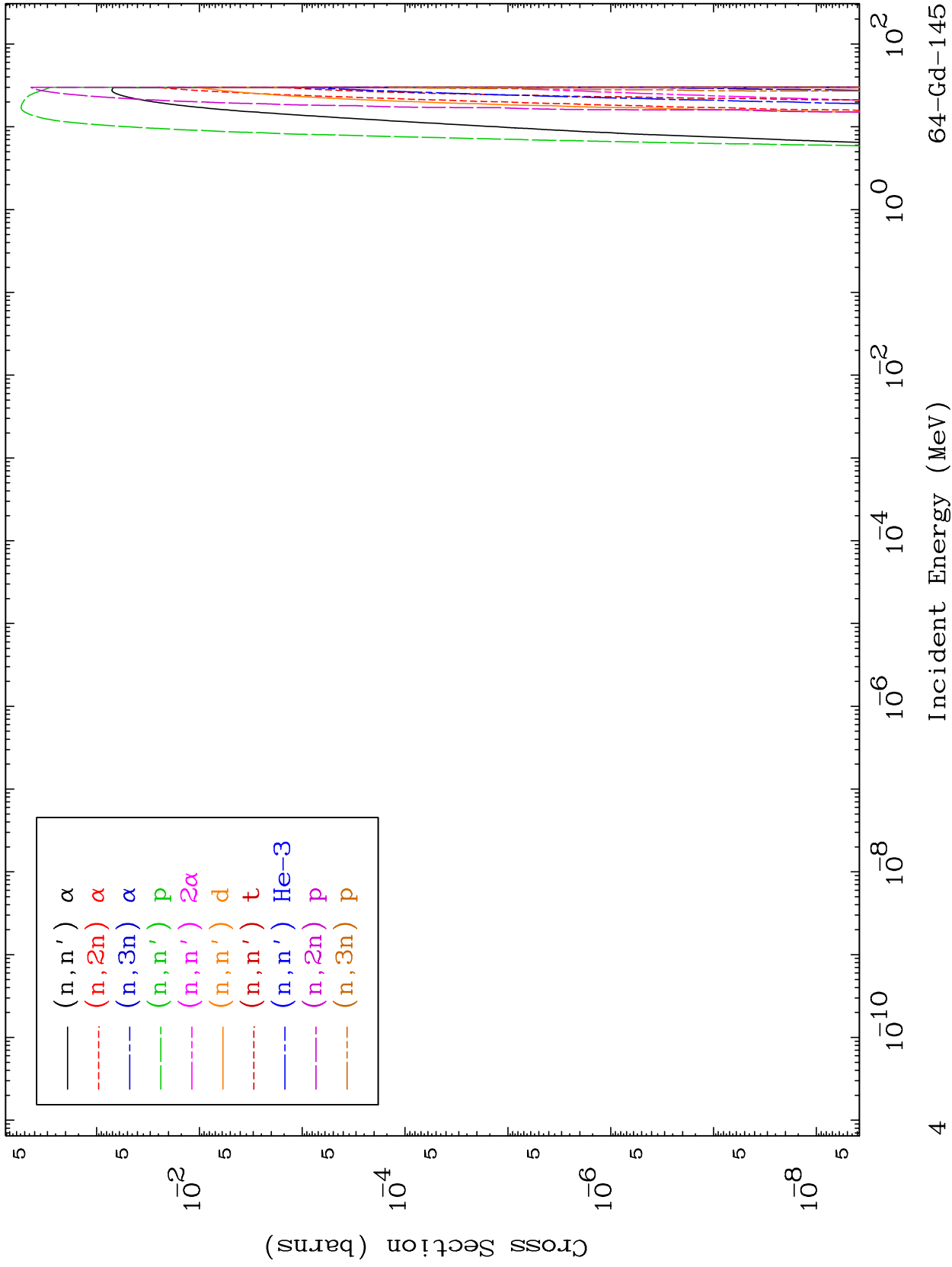
Incident Energy (MeV)

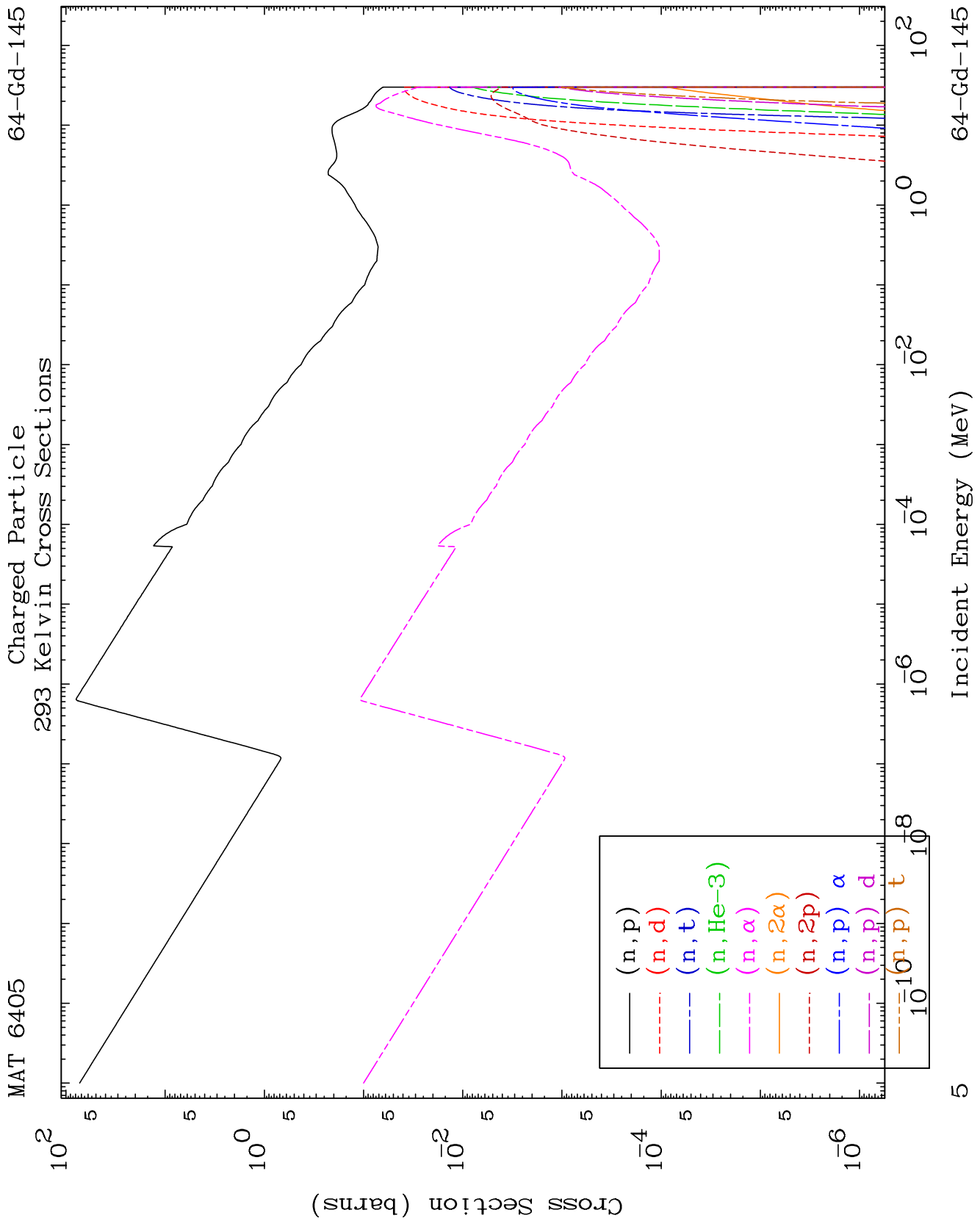
64-Gd-145

MAT 6405

Charged Particle  
293 Kelvin Cross Sections

64-Gd-145

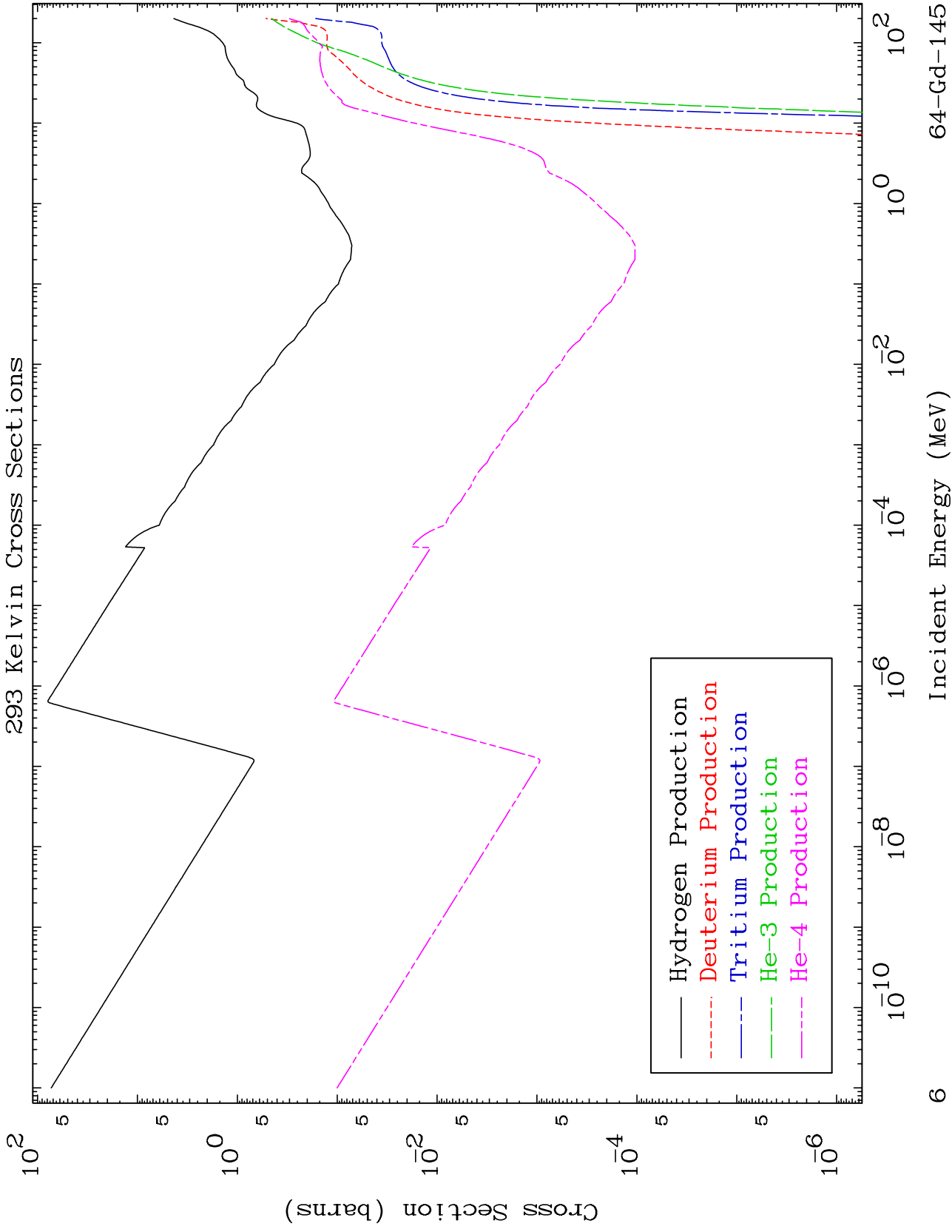




MAT 6405

Particle Production  
293 Kelvin Cross Sections

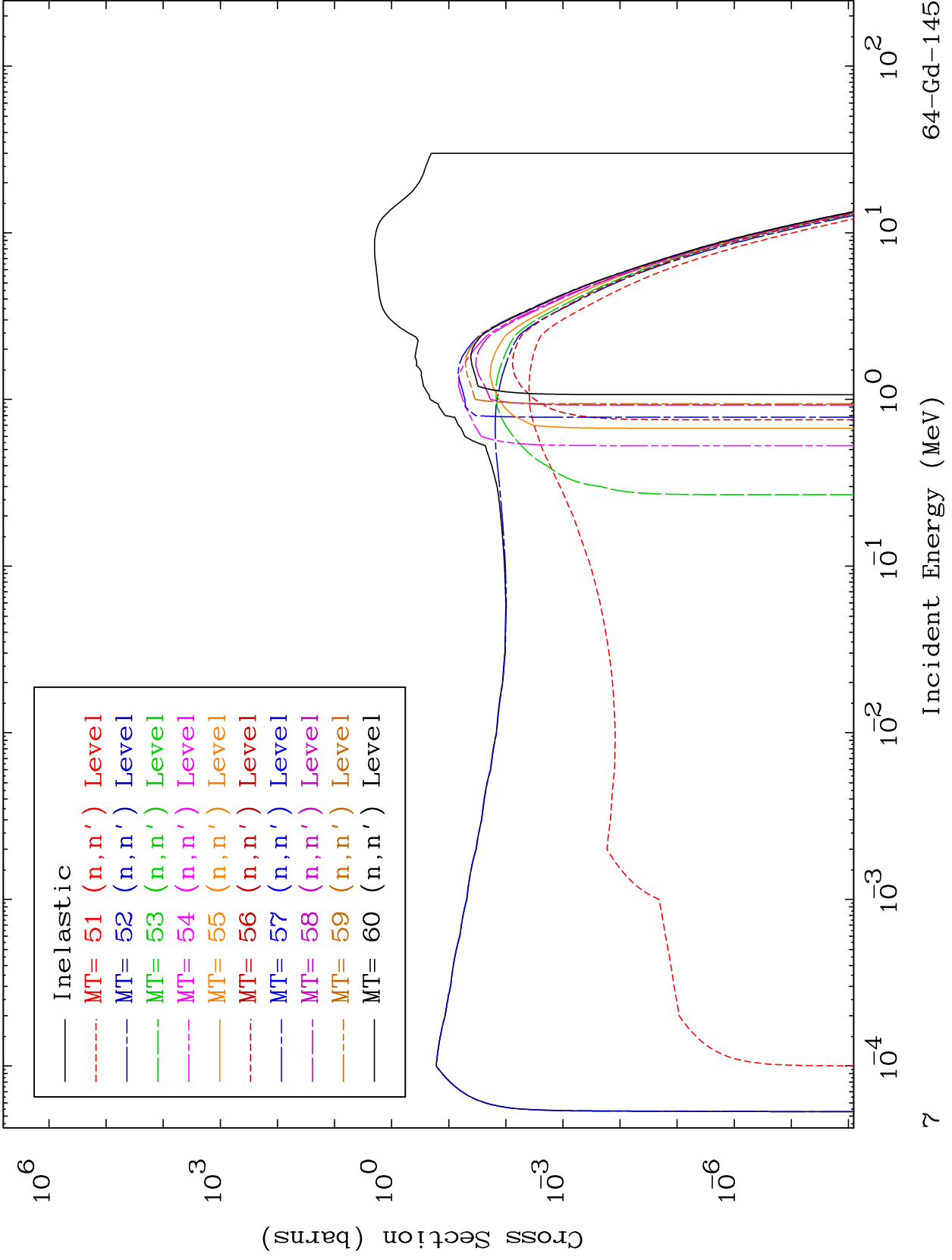
64-Gd-145



MAT 6405

(n,n') Level  
293 Kelvin Cross Sections

64-Gd-145



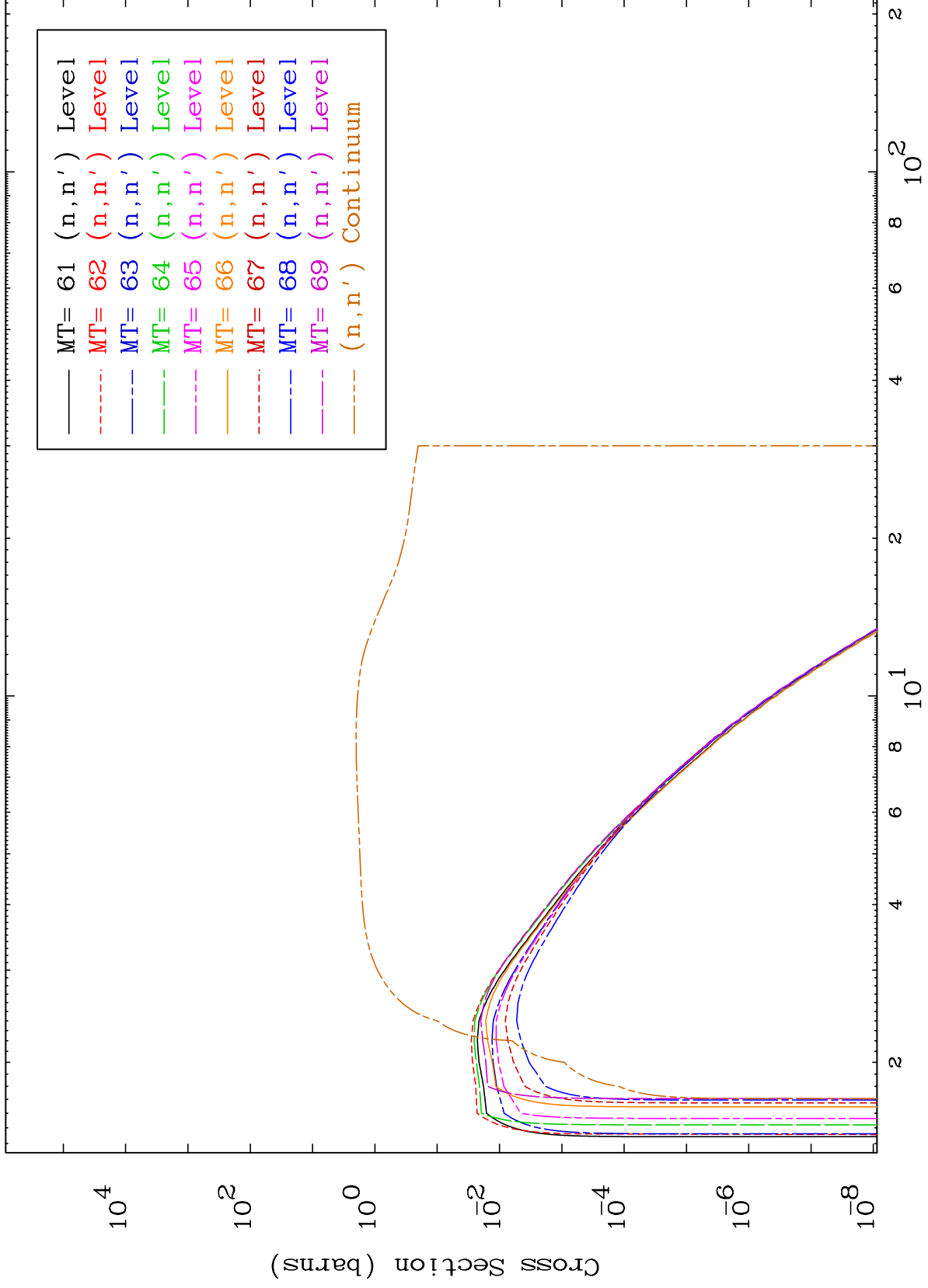


MAT 6405

(n,n') Level

64-Gd-145

293 Kelvin Cross Sections



8

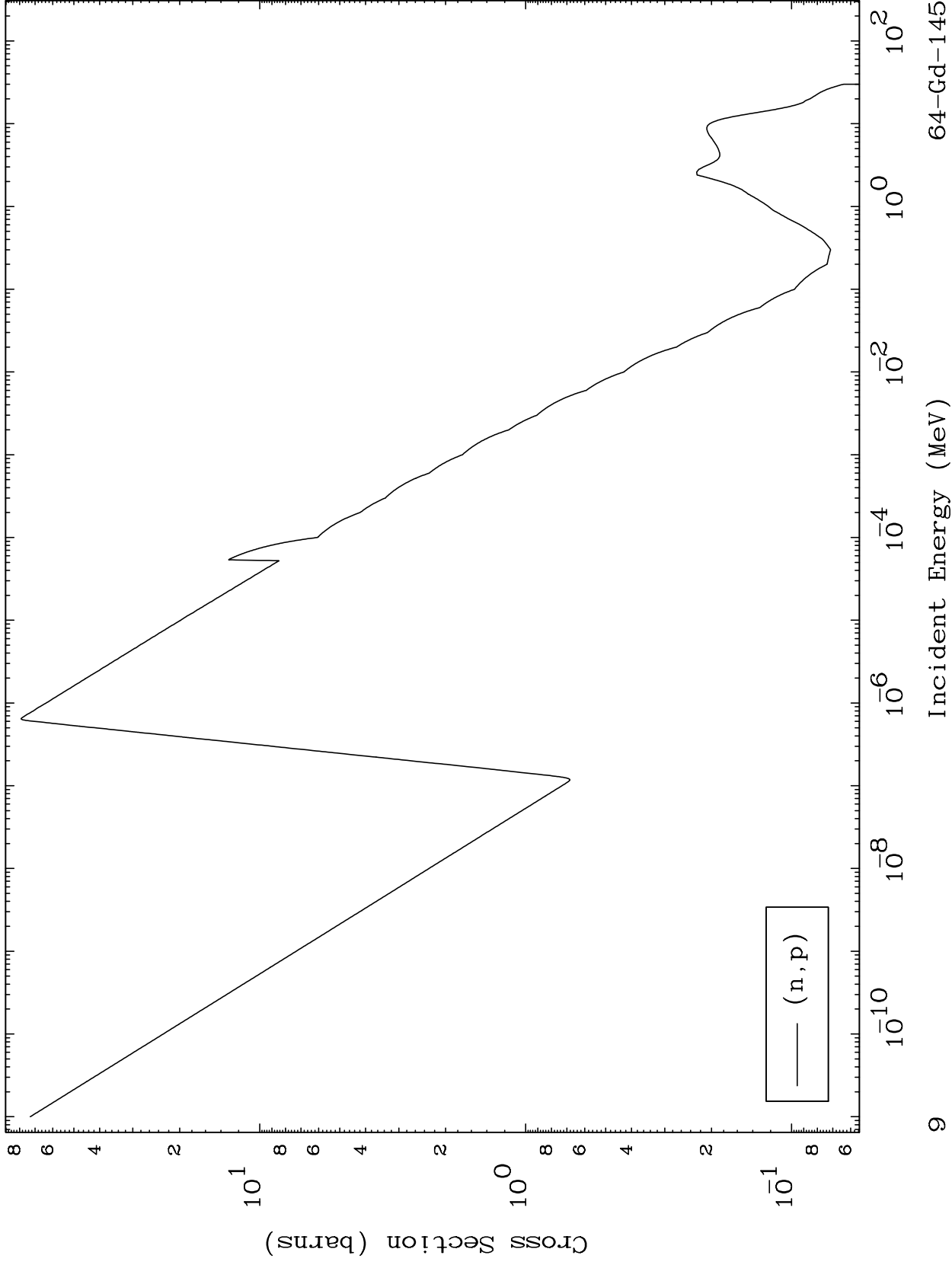
Incident Energy (MeV)

64-Gd-145

MAT 6405

(n,p) Levels  
293 Kelvin Cross Sections

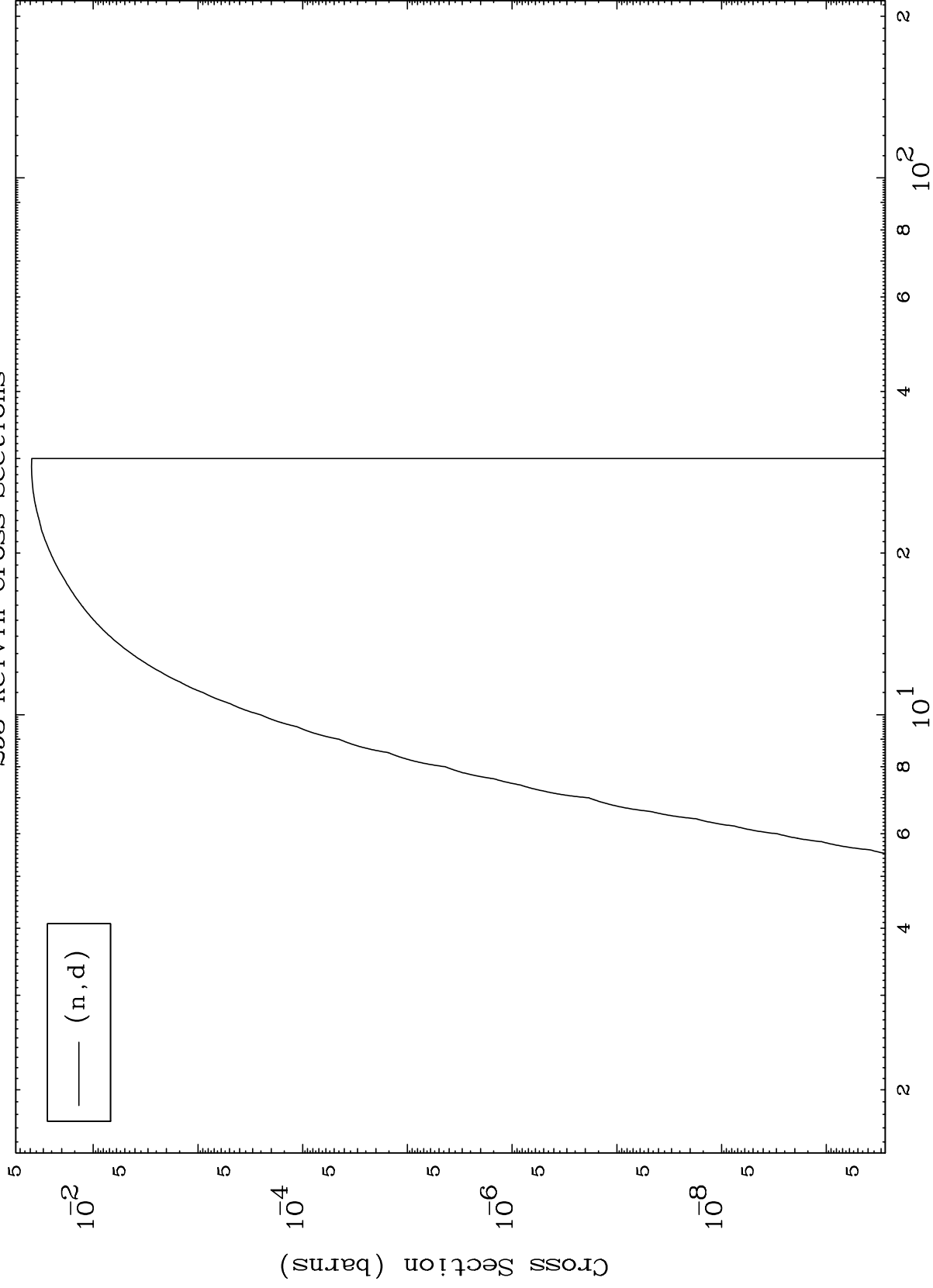
64-Gd-145



MAT 6405

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-145



10

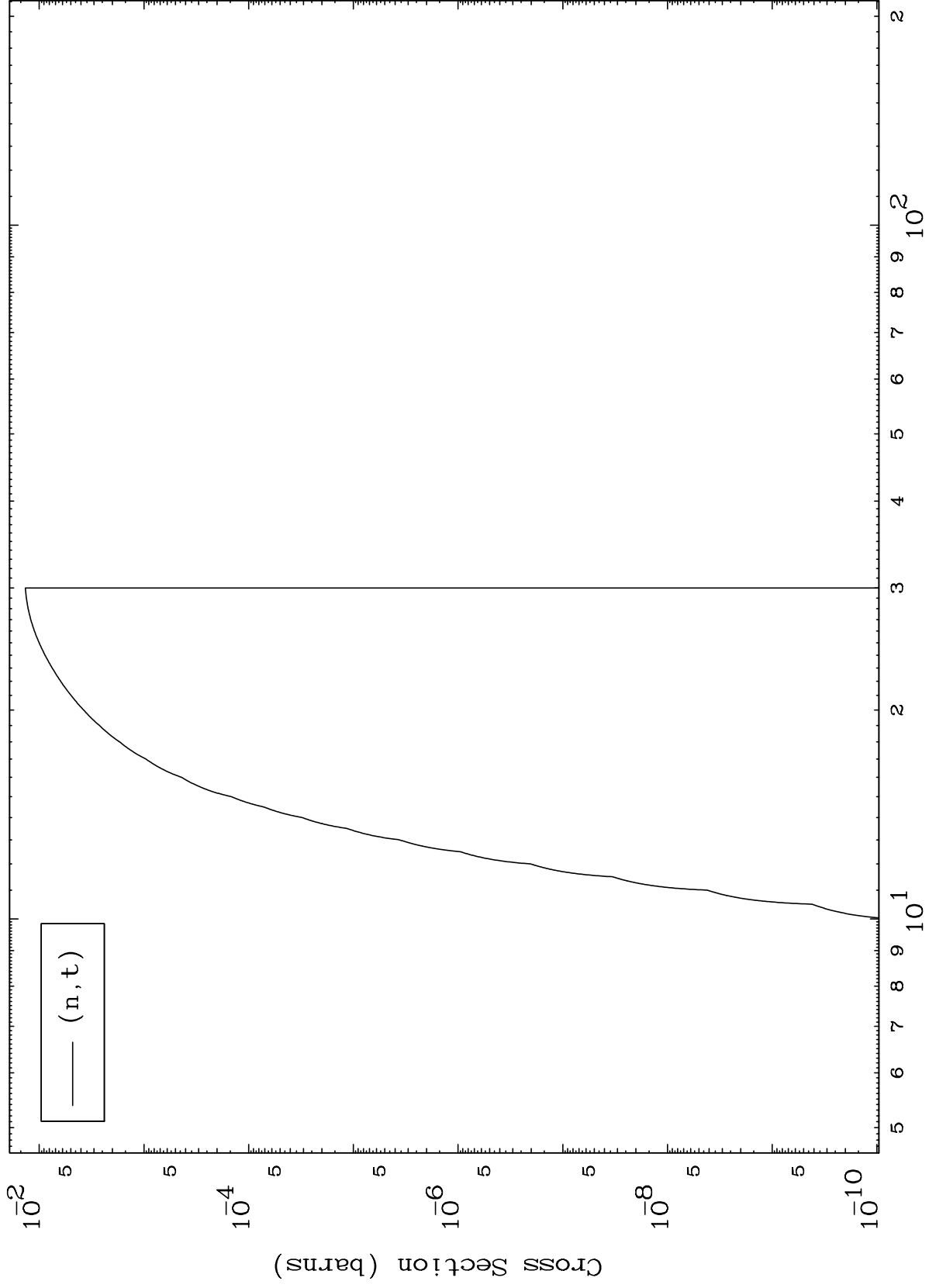
Incident Energy (MeV)

64-Gd-145

MAT 6405

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-145



11

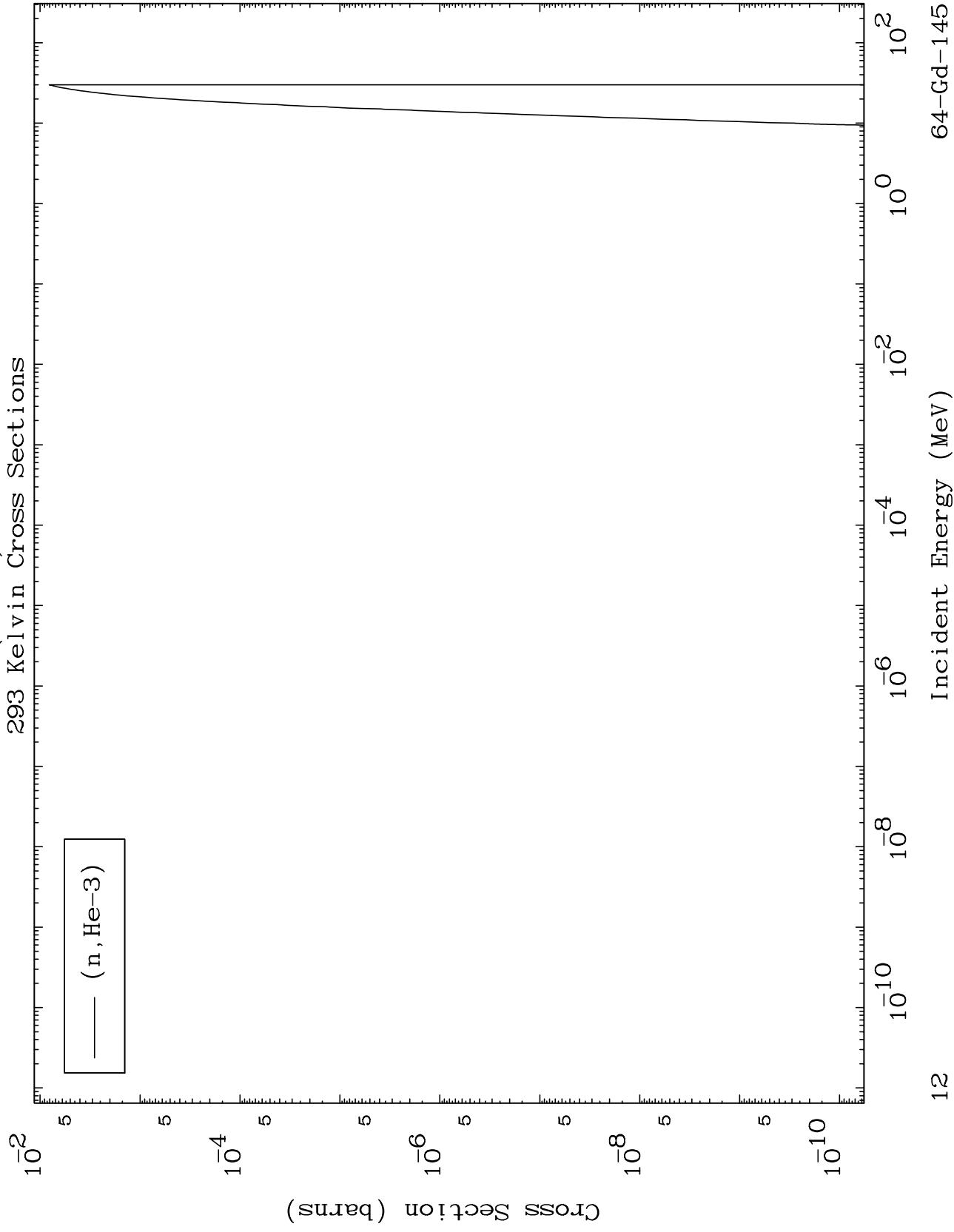
Incident Energy (MeV)

64-Gd-145

MAT 6405

(n,He3) Levels  
293 Kelvin Cross Sections

64-Gd-145

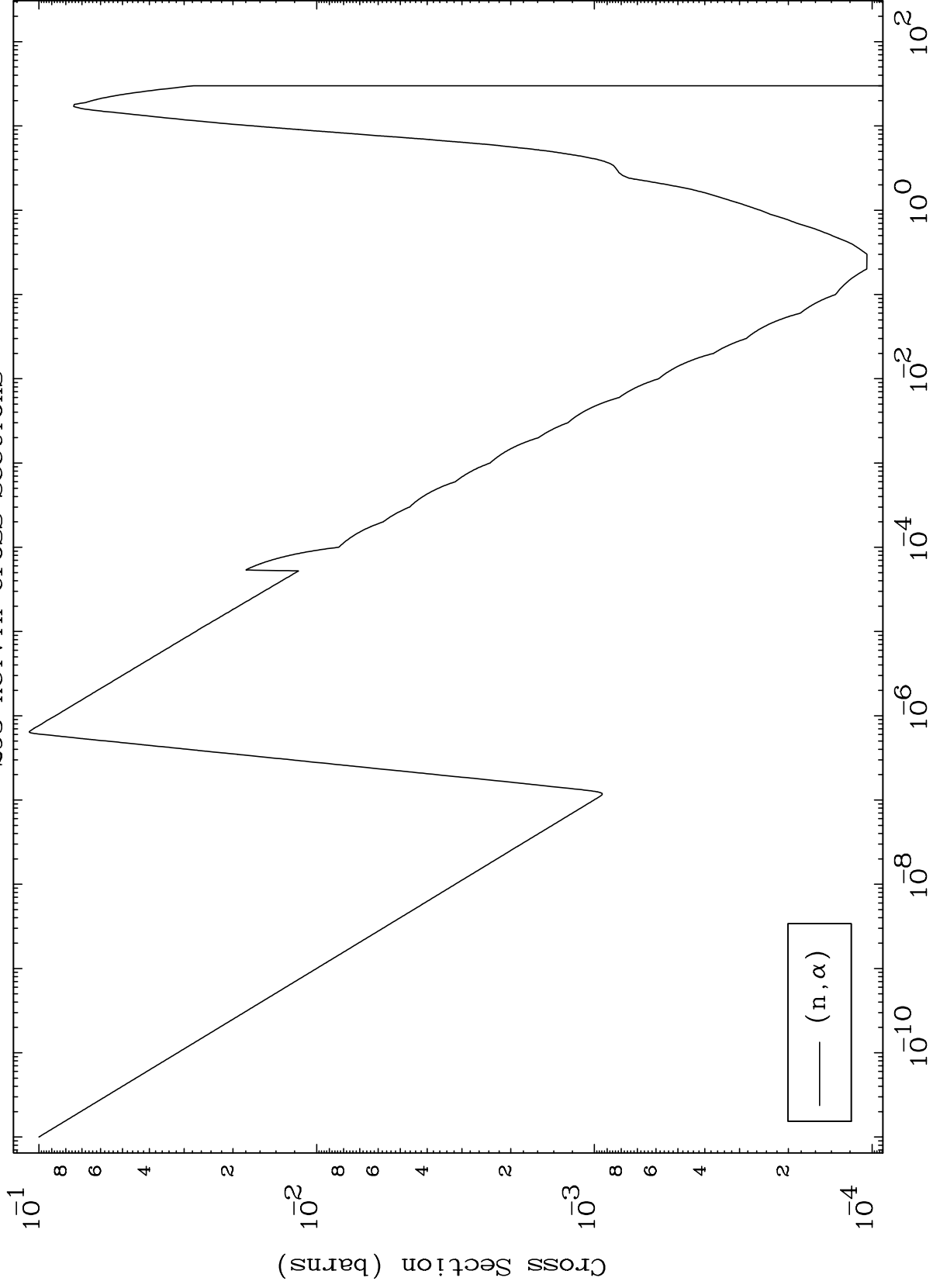


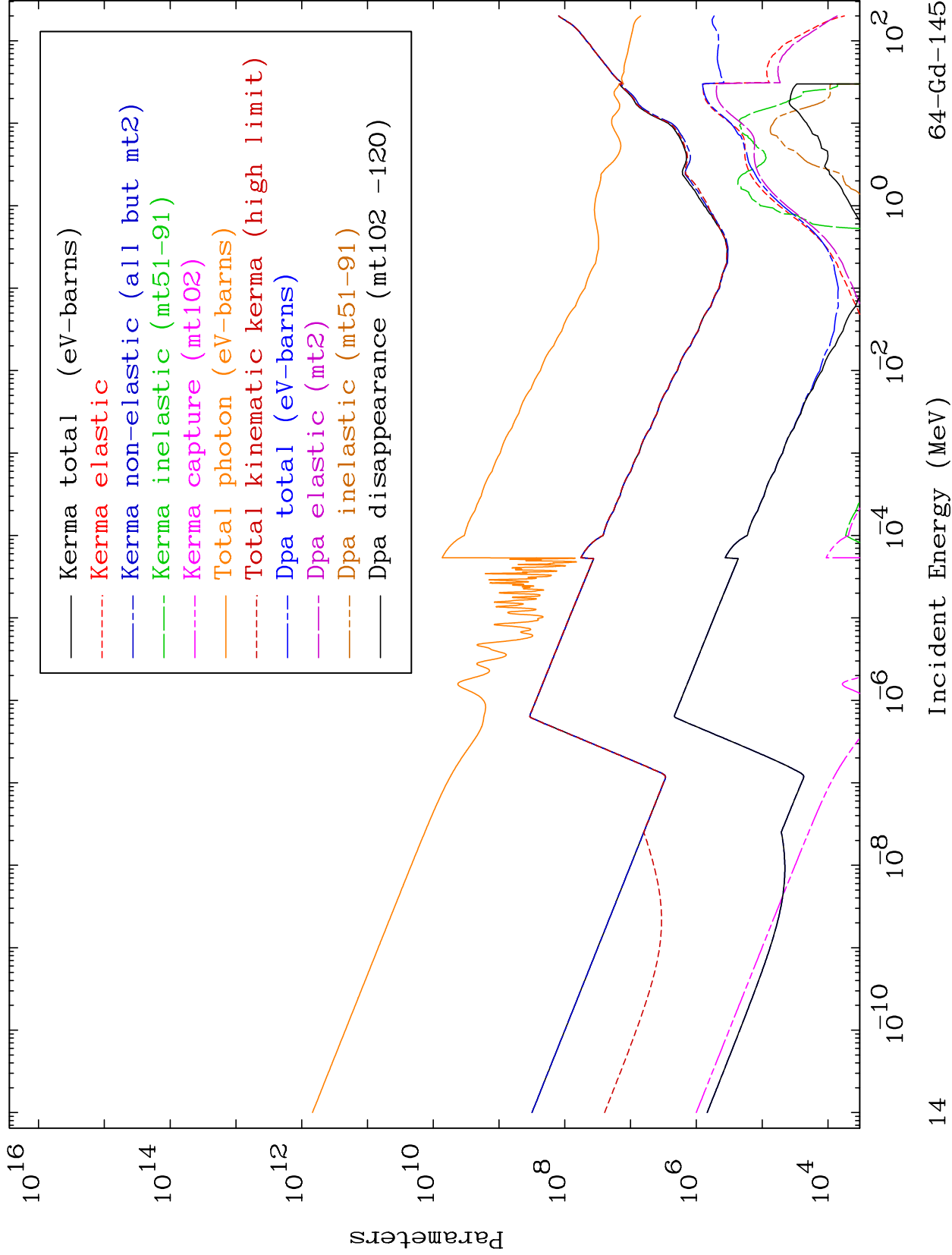
12

MAT 6405

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

64-Gd-145





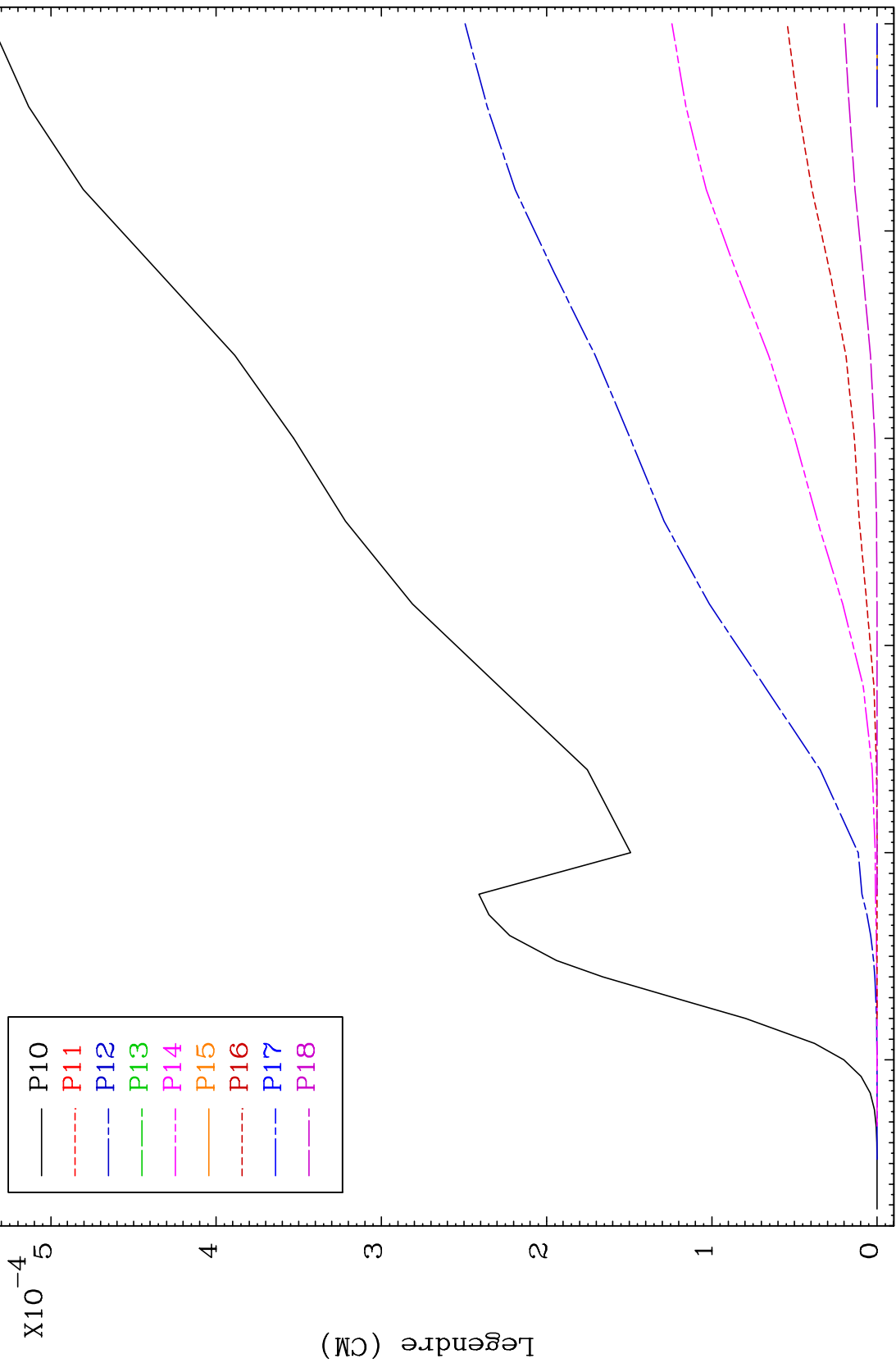
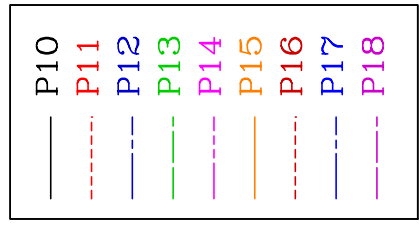




MAT 6405

Elastic  
Legendre Coefficients

64-Gd-145



16

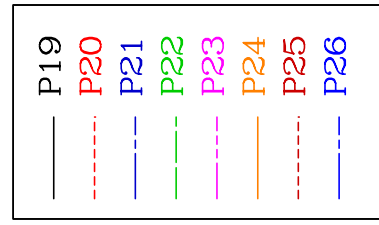
Incident Energy (MeV)

64-Gd-145

MAT 6405

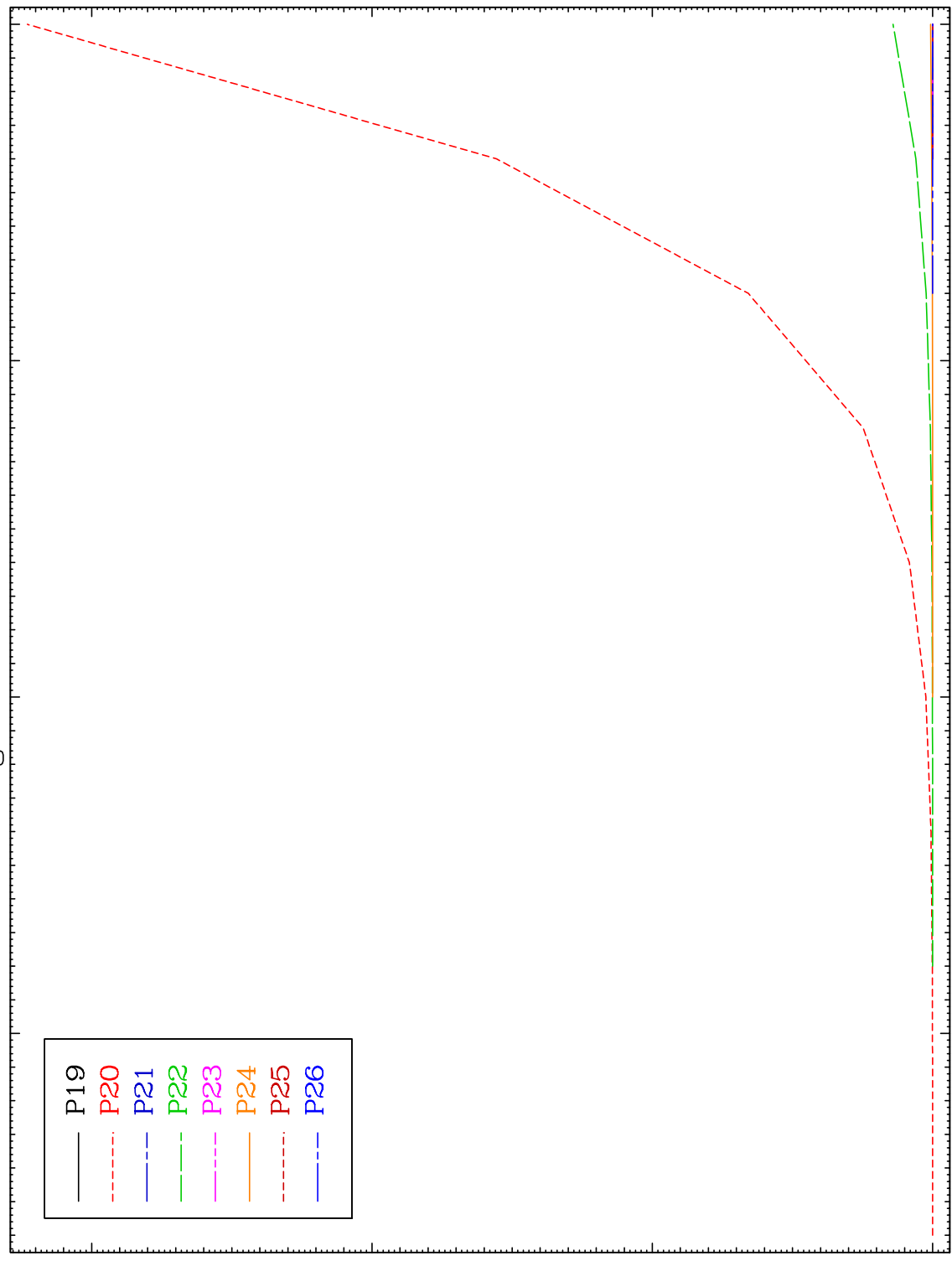
Elastic  
Legendre Coefficients

64-Gd-145



$\times 10^{-6}$

Legendre (CM)



17

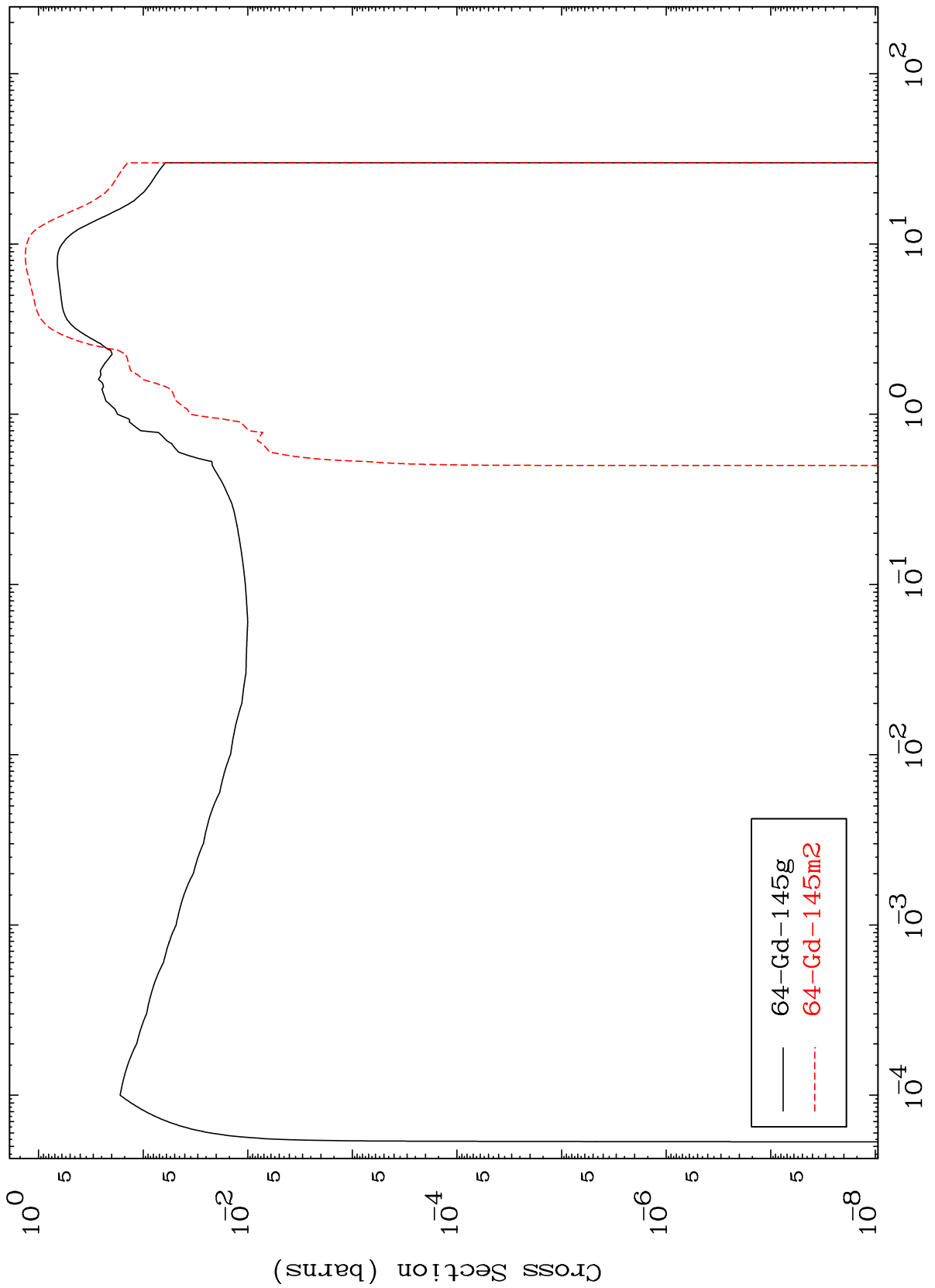
Incident Energy (MeV)

64-Gd-145

MAT 6405

64-Gd-145

Inelastic  
Radionuclide Production Cross Section



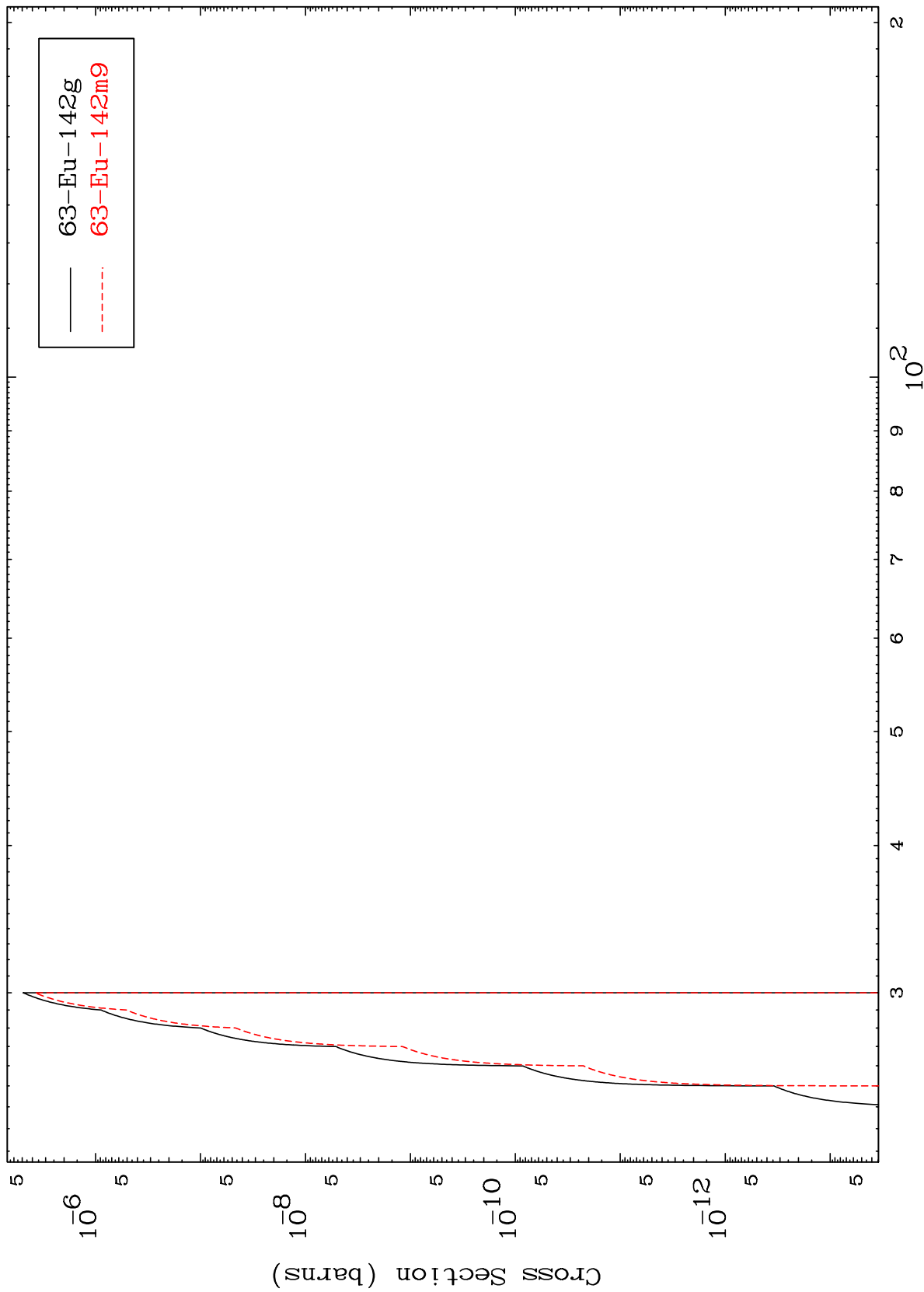
64-Gd-145g  
64-Gd-145m2

MAT 6405

(n,2n) d

64-Gd-145

Radionuclide Production Cross Section



19

Incident Energy (MeV)

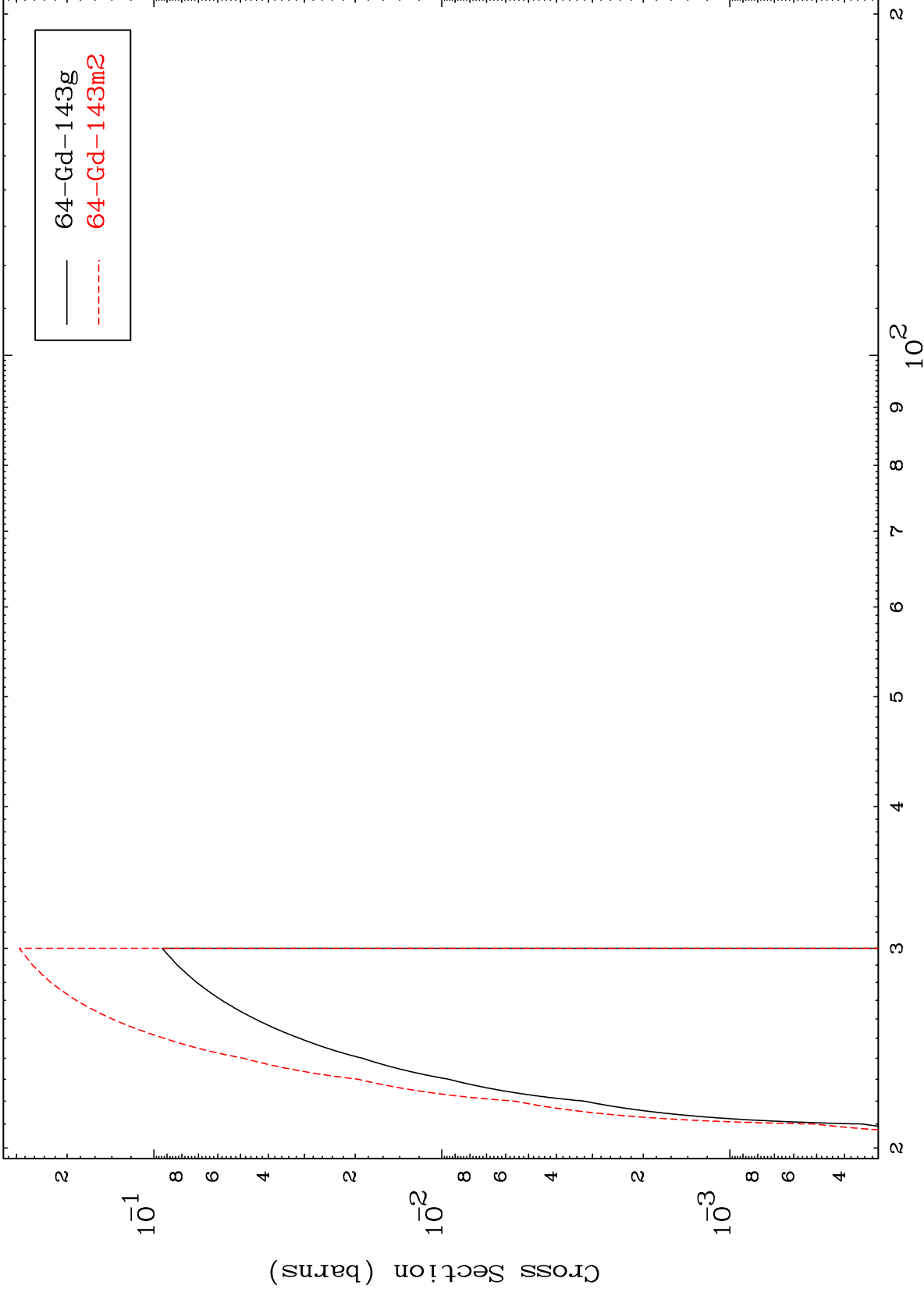
64-Gd-145

MAT 6405

(n,3n)

64-Gd-145

Radionuclide Production Cross Section



20

Incident Energy (MeV)

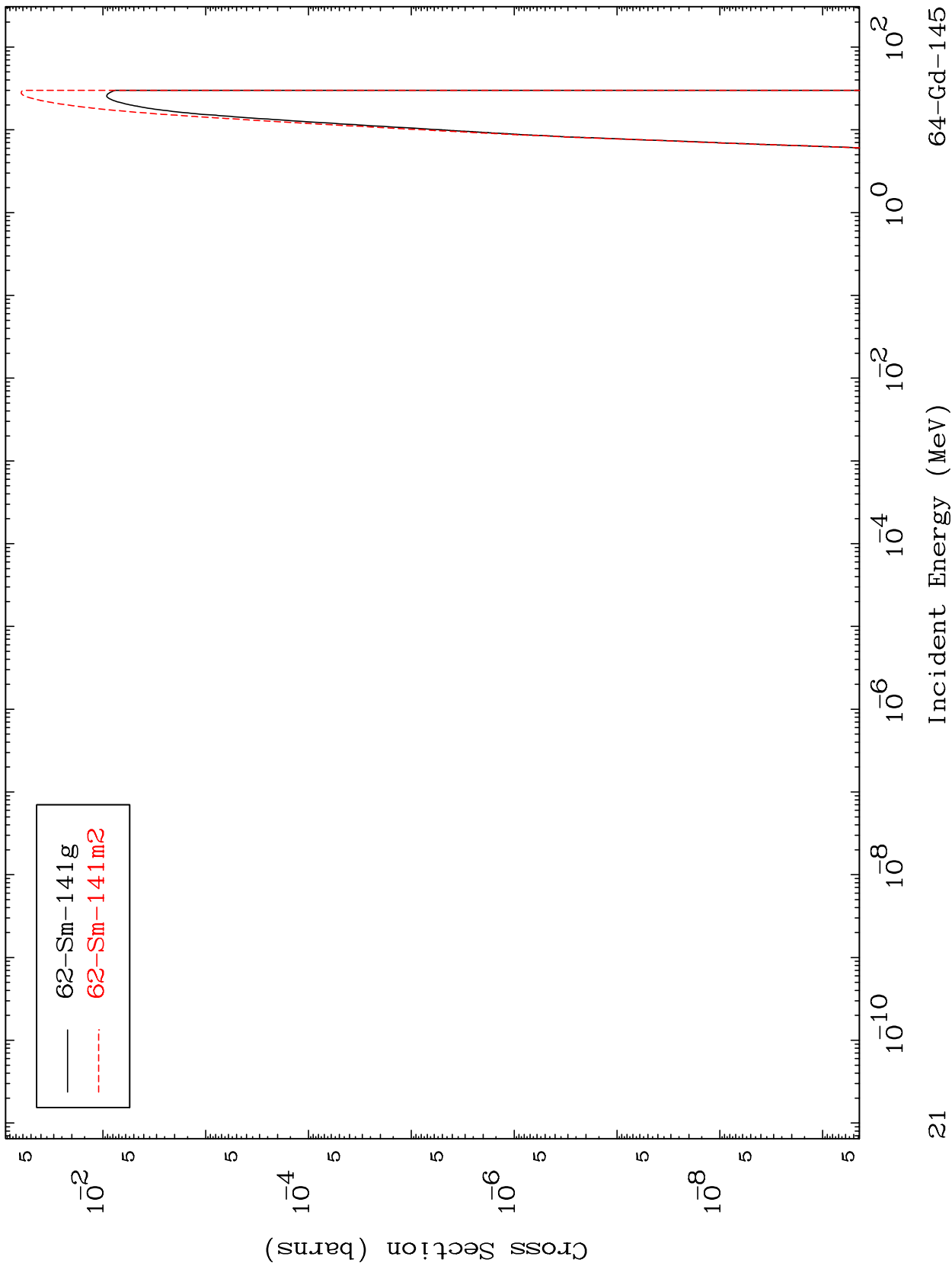
64-Gd-145

MAT 6405

$(n, n')$   $\alpha$

64-Gd-145

Radionuclide Production Cross Section

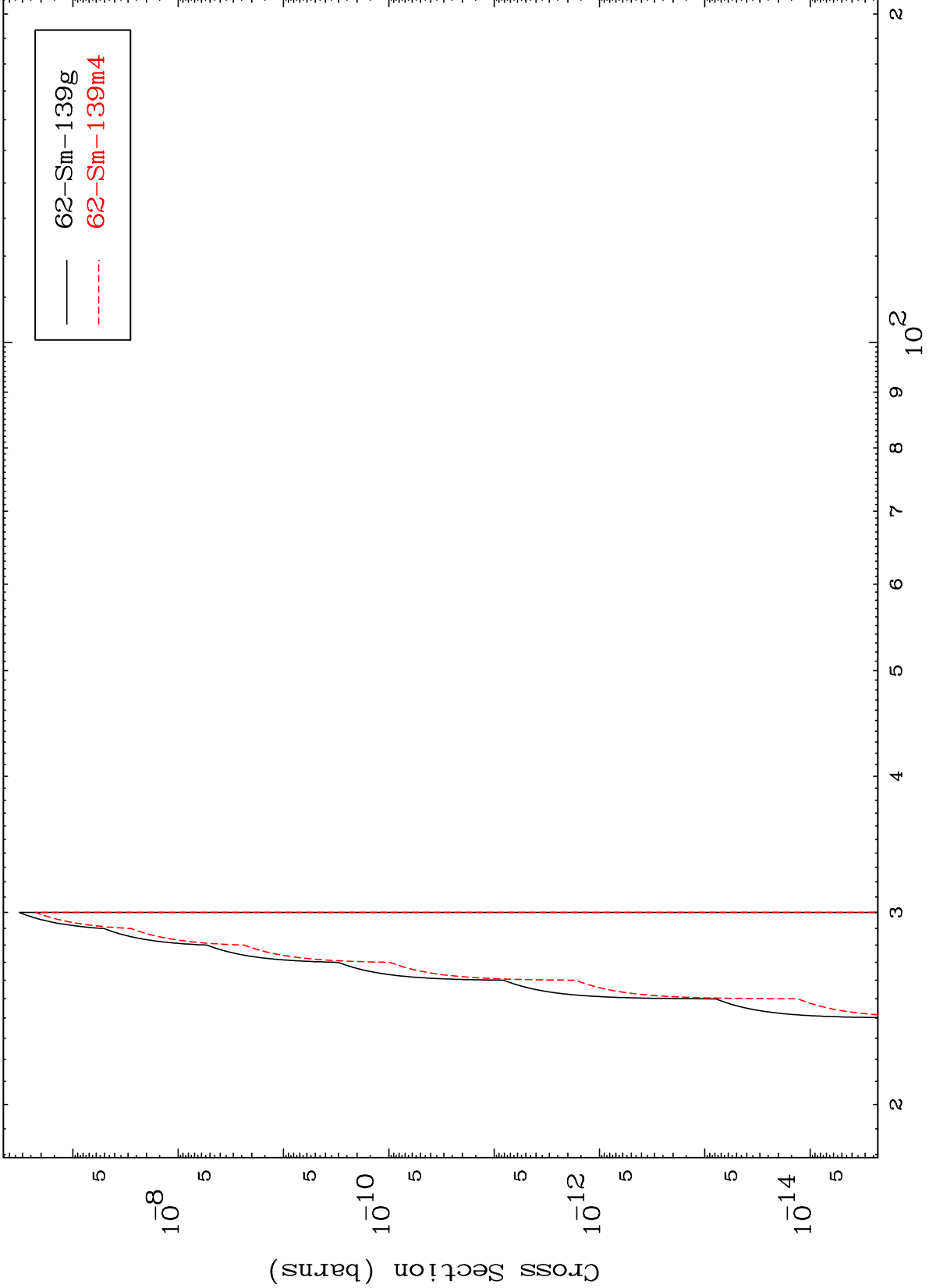


MAT 6405

$(n,3n) \alpha$

64-Gd-145

Radionuclide Production Cross Section



22

Incident Energy (MeV)

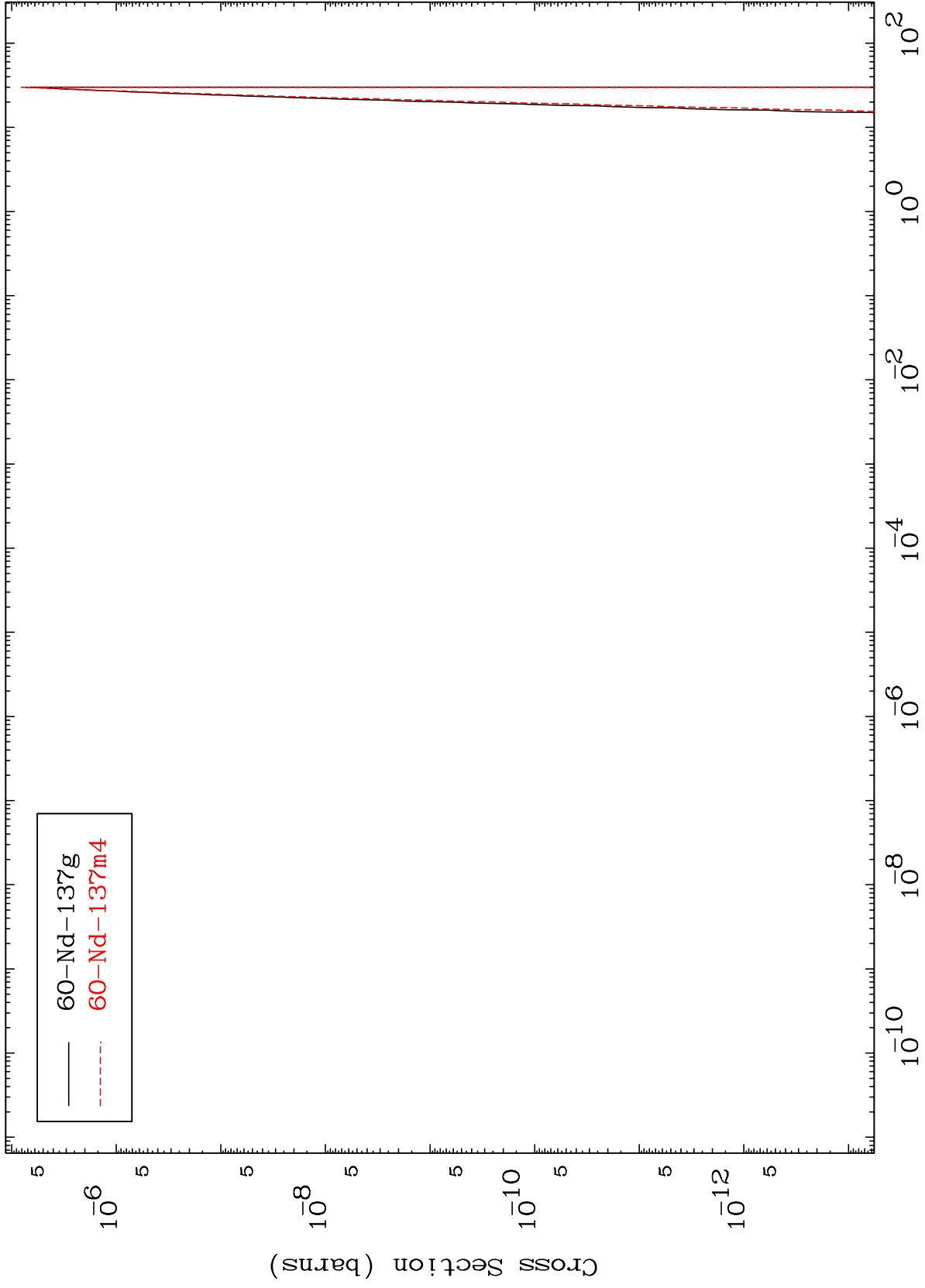
64-Gd-145

MAT 6405

(n,n') 2α

64-Gd-145

Radionuclide Production Cross Section



23

Incident Energy (MeV)

64-Gd-145

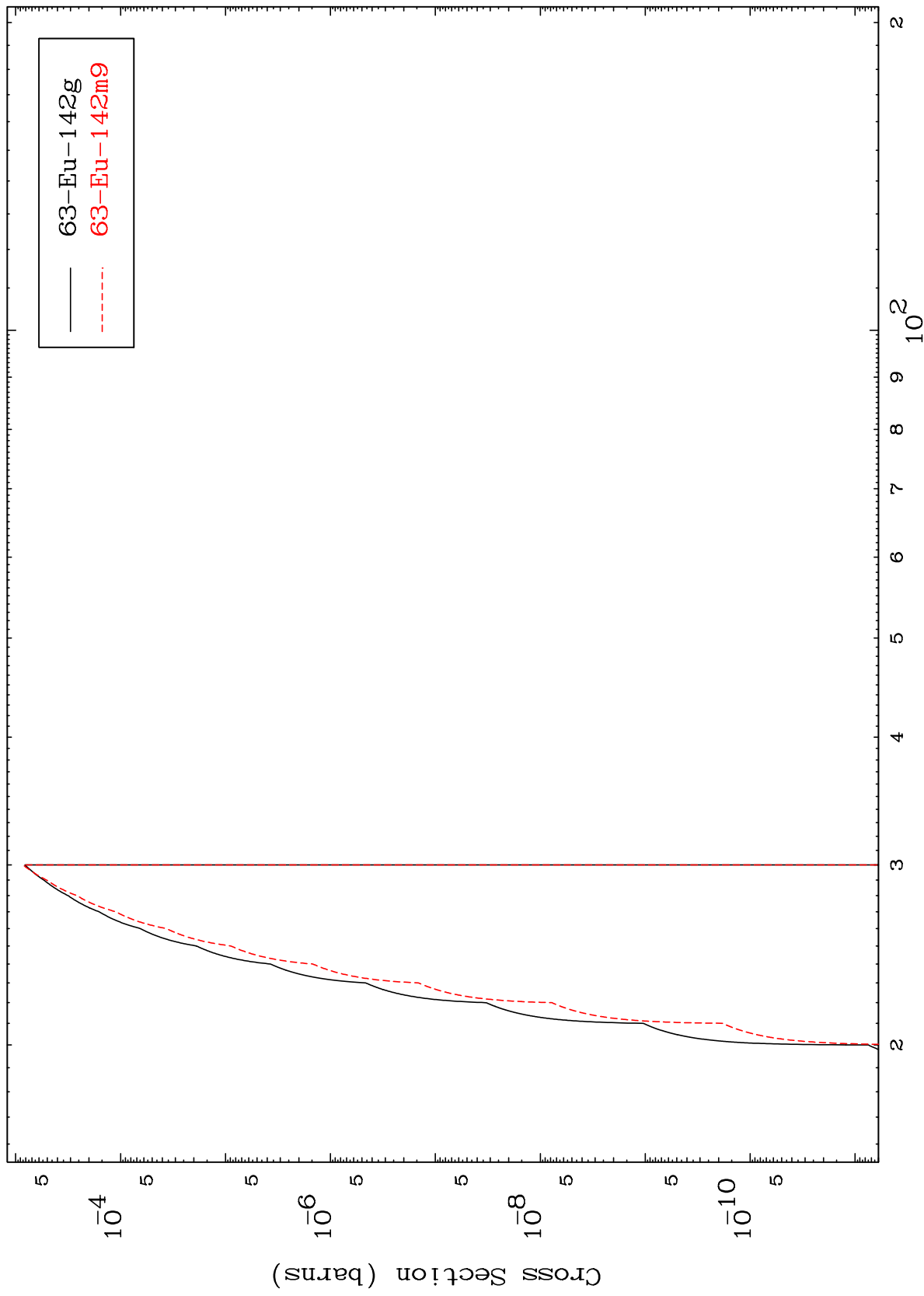


MAT 6405

(n,n') t

64-Gd-145

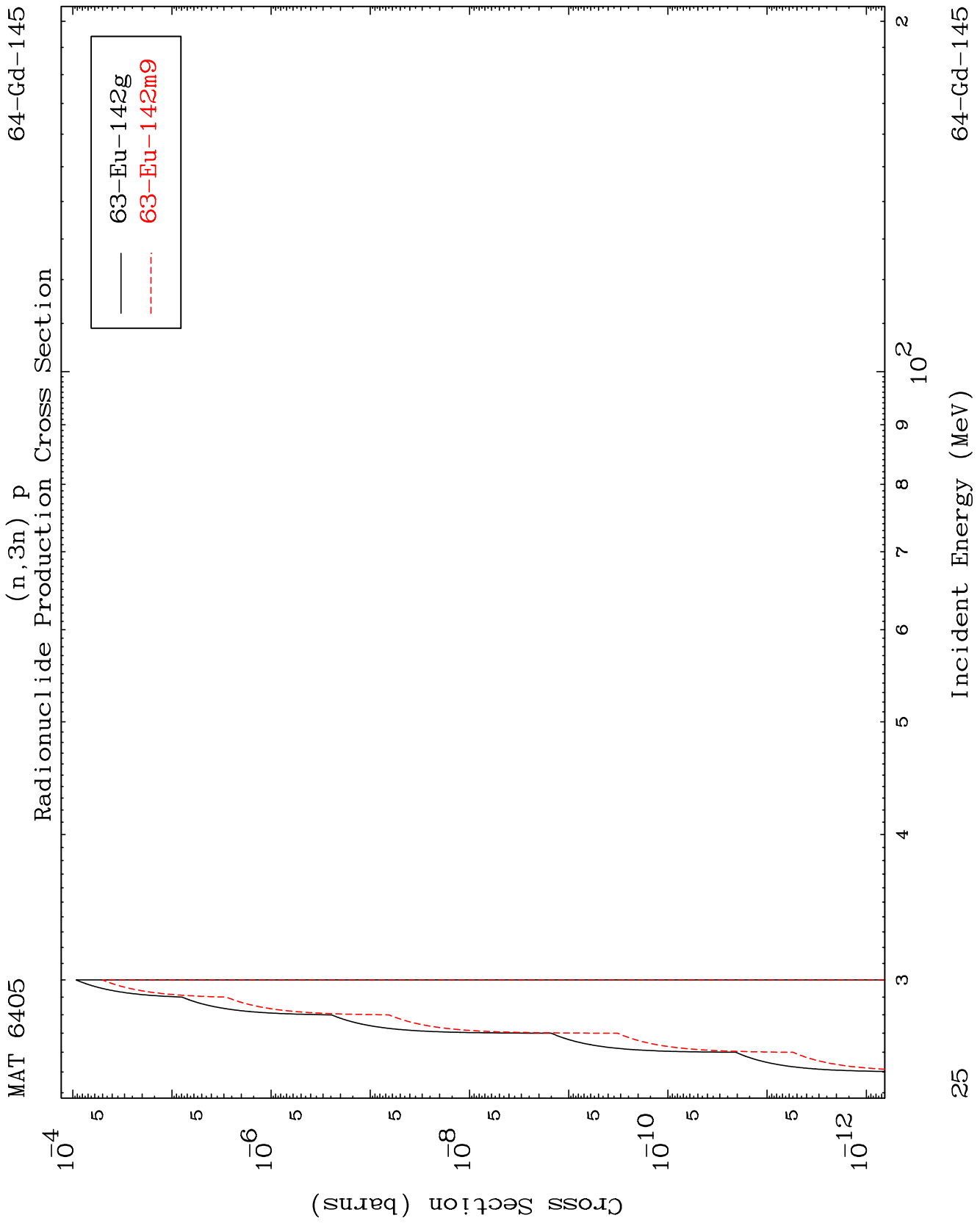
Radionuclide Production Cross Section



24

Incident Energy (MeV)

64-Gd-145

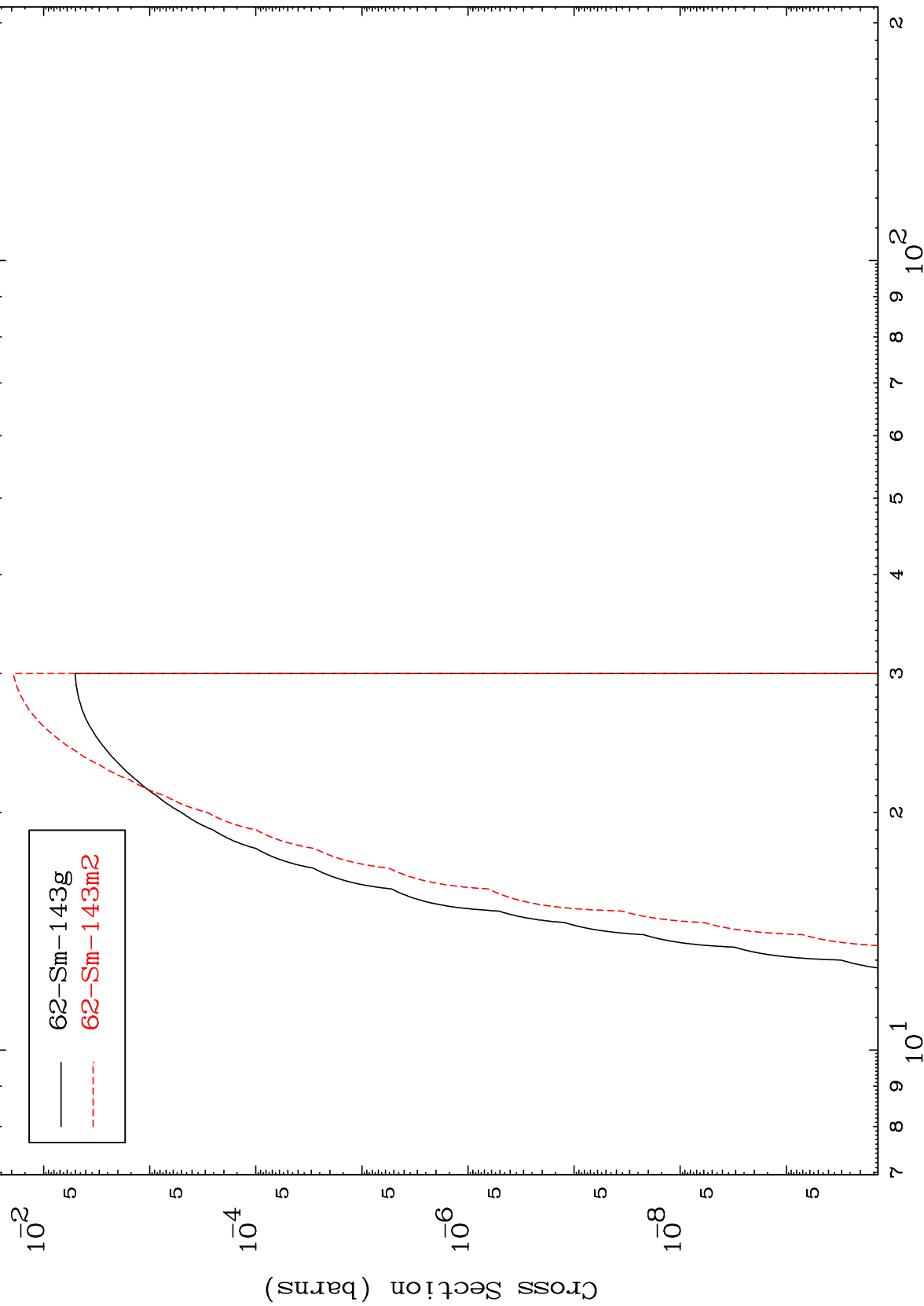


MAT 6405

(n,2n) p

64-Gd-145

Radionuclide Production Cross Section



26

Incident Energy (MeV)

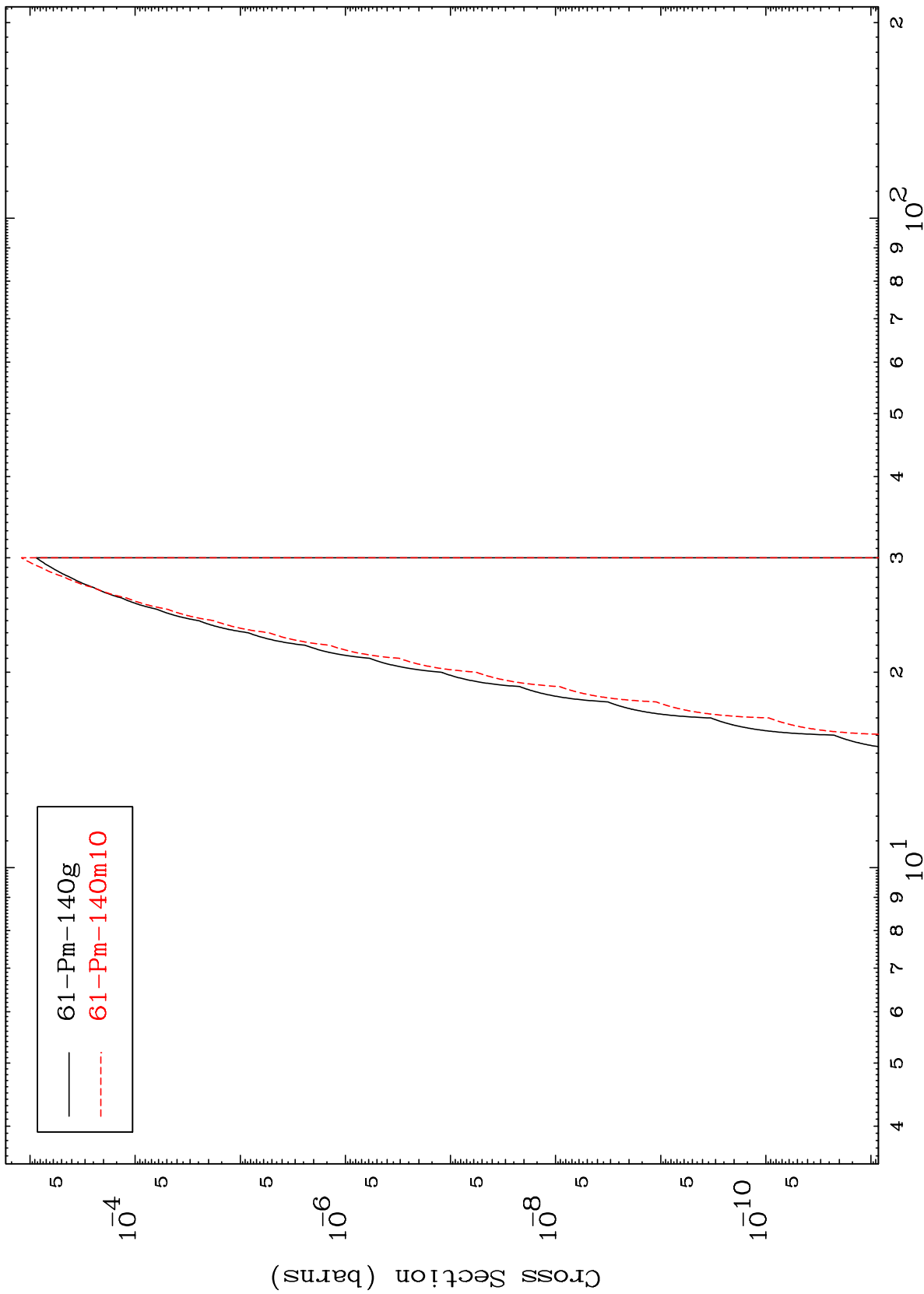
64-Gd-145

MAT 6405

(n,n') p  $\alpha$

64-Gd-145

Radionuclide Production Cross Section



61-Pm-140g  
61-Pm-140m10

27

Incident Energy (MeV)

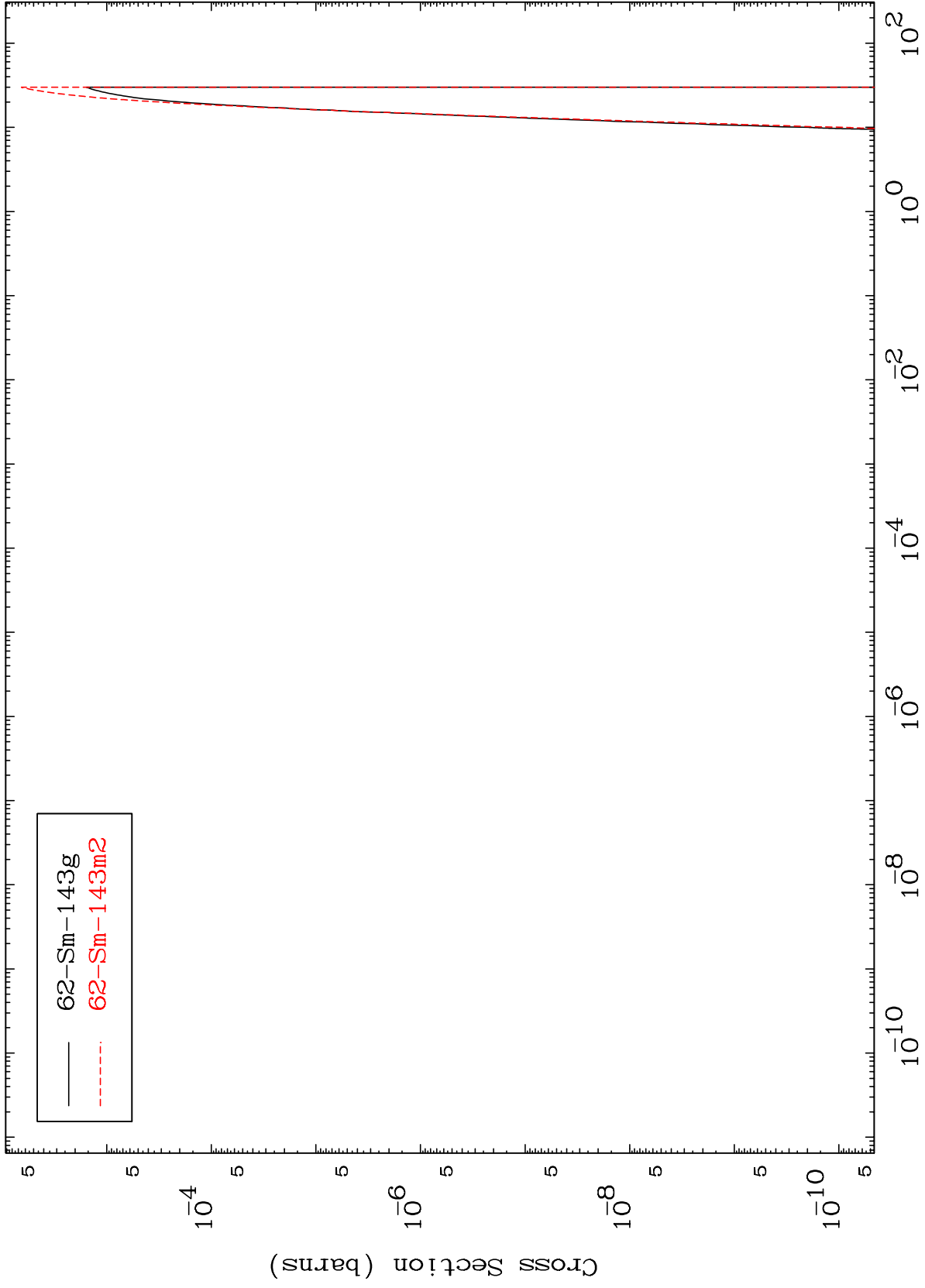
64-Gd-145

MAT 6405

(n,He-3)

64-Gd-145

Radionuclide Production Cross Section



62-Sm-143g  
62-Sm-143m2

Incident Energy (MeV)

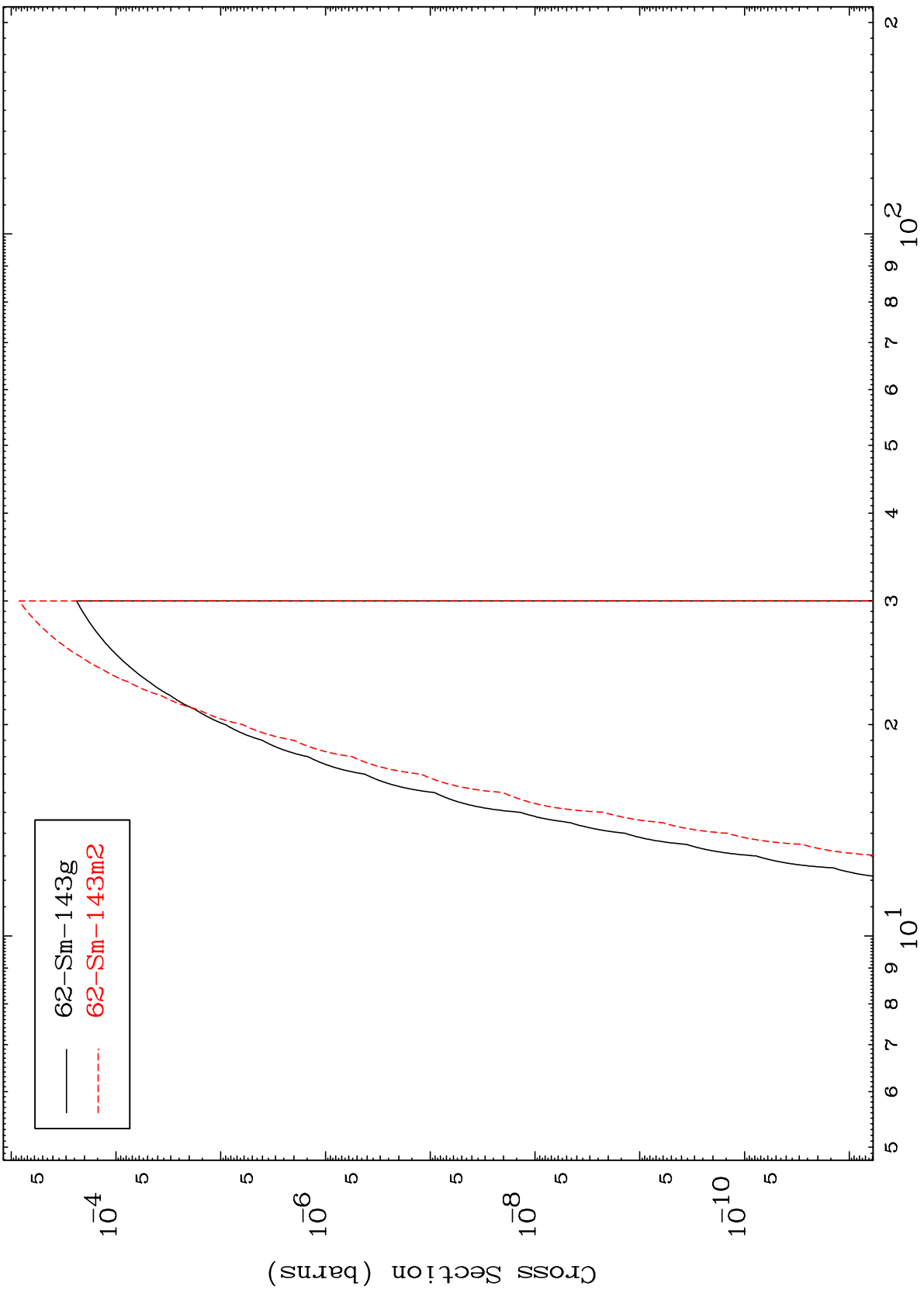
64-Gd-145

MAT 6405

(n,p) d

64-Gd-145

Radionuclide Production Cross Section



29

Incident Energy (MeV)

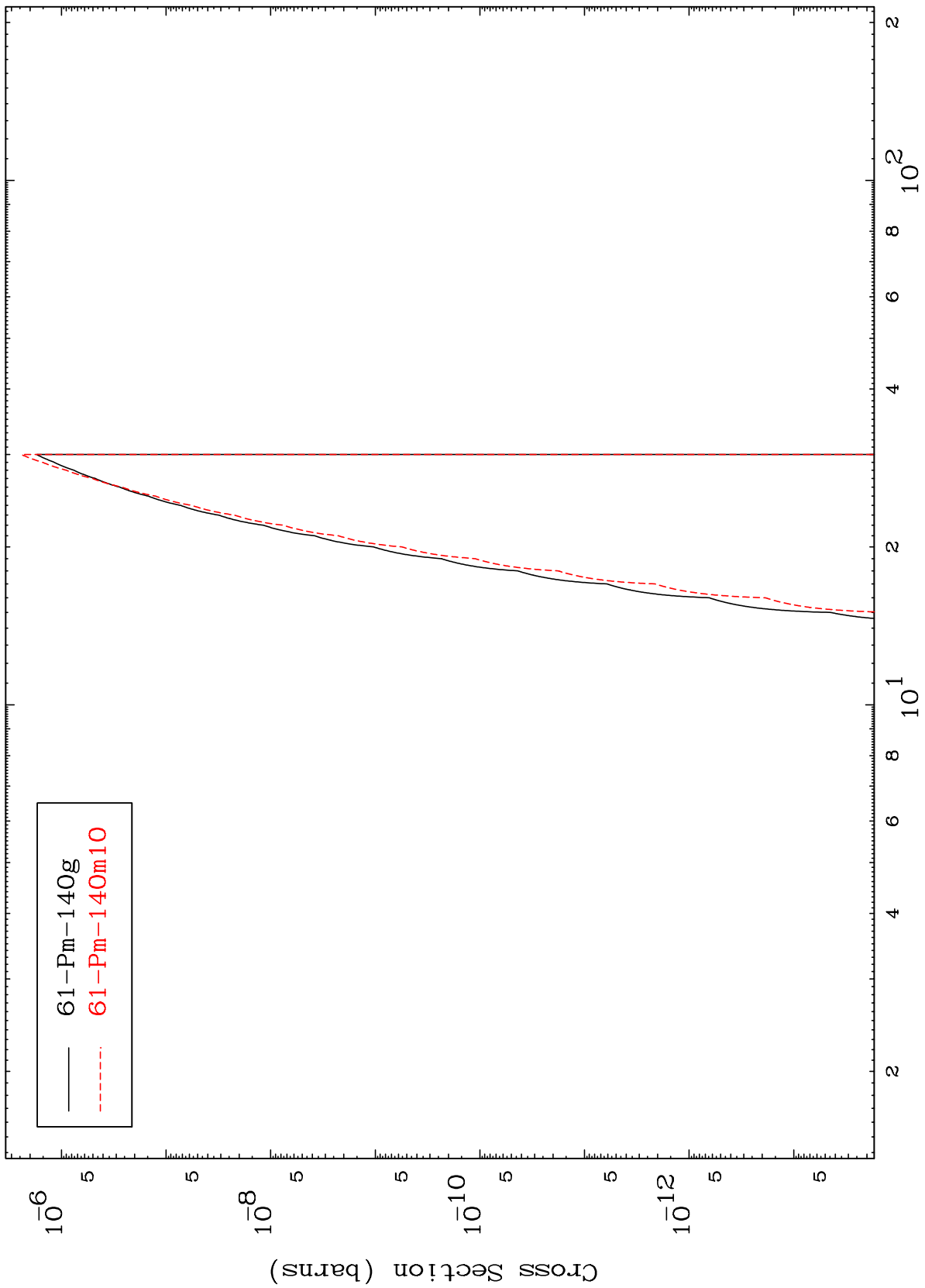
64-Gd-145

MAT 6405

(n,d)  $\alpha$

64-Gd-145

Radionuclide Production Cross Section



30

Incident Energy (MeV)

64-Gd-145