

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

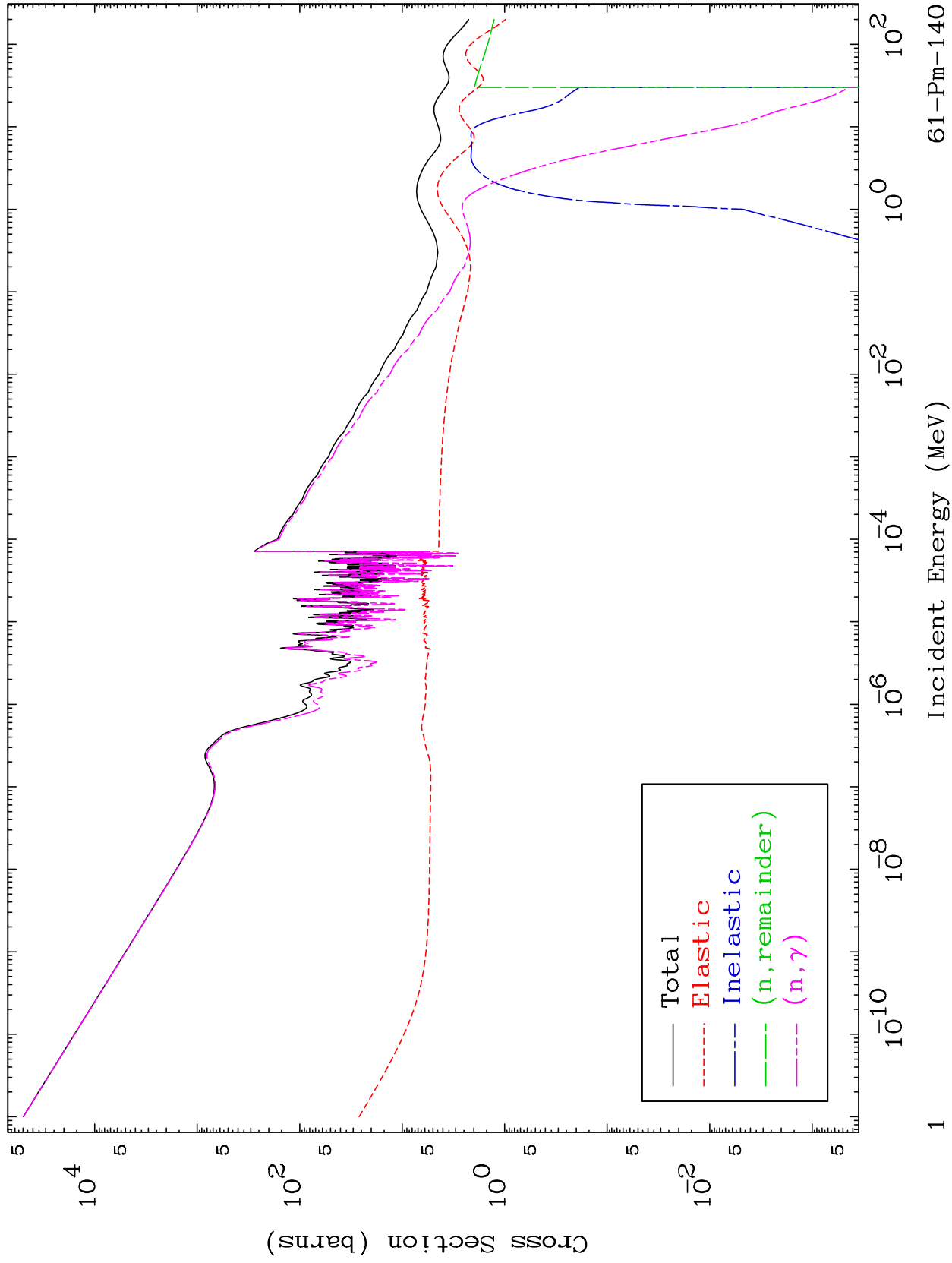
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6129

Major  
293 Kelvin Cross Sections

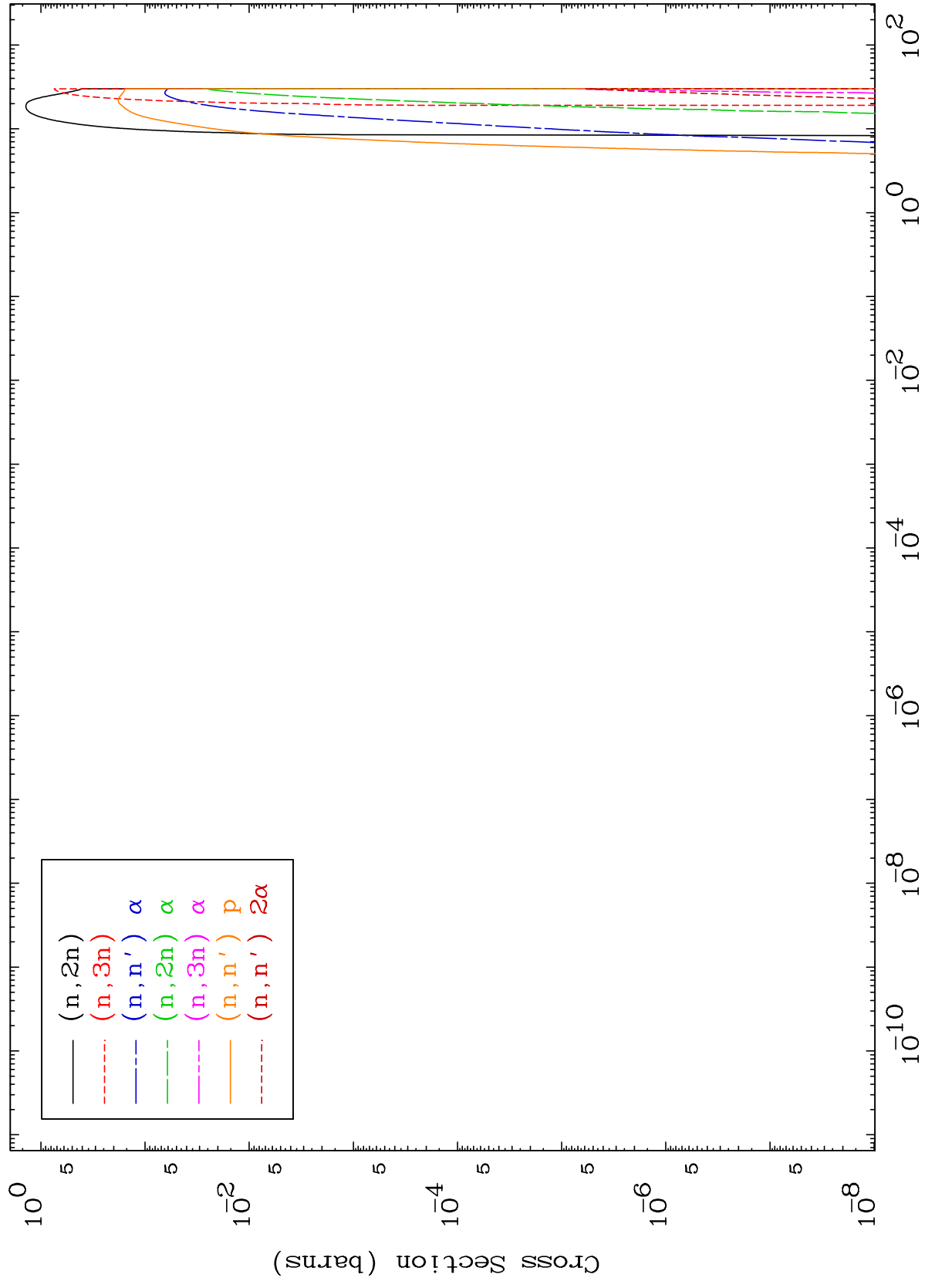
61-Pm-140



MAT 6129

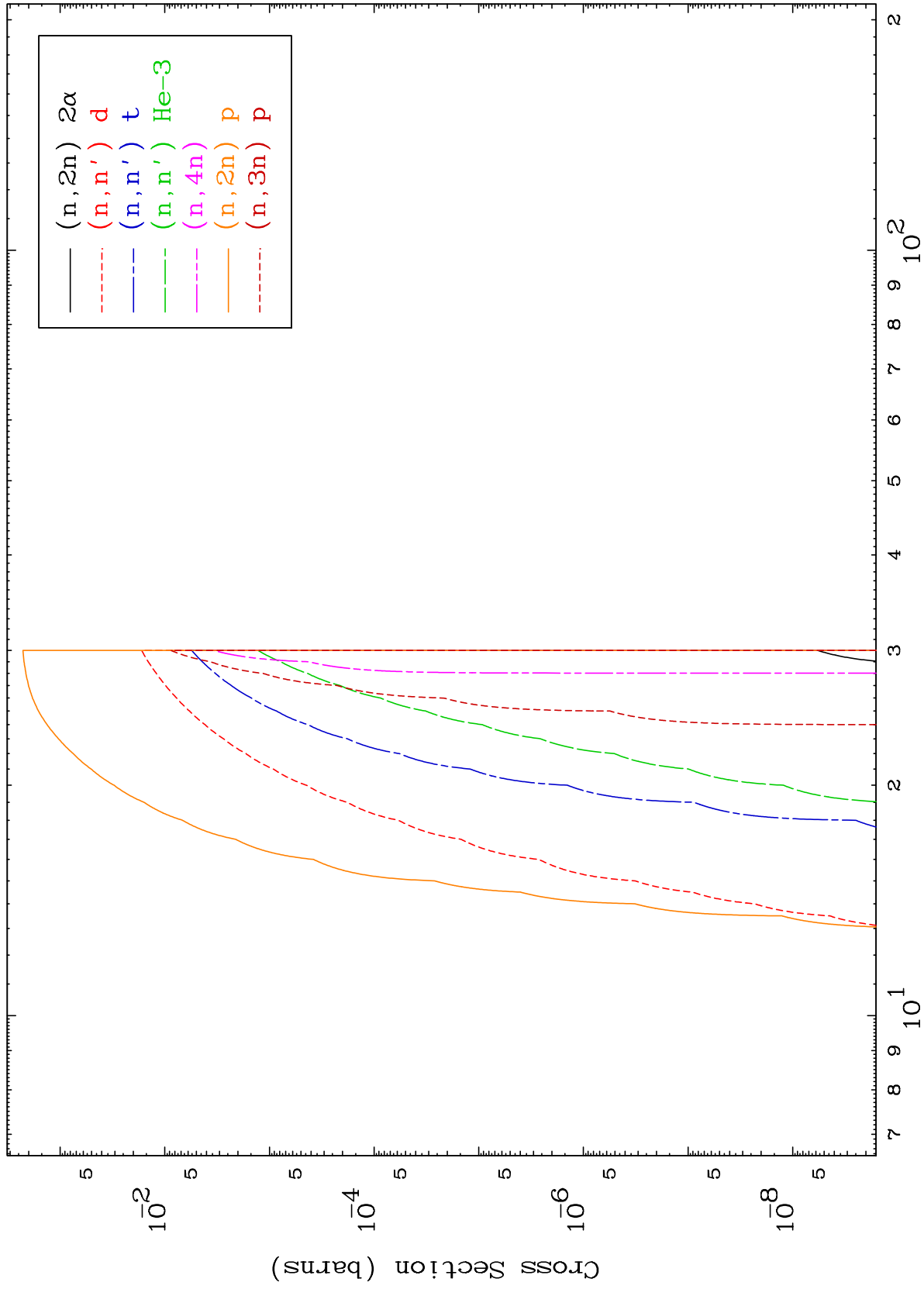
Neutron Production  
293 Kelvin Cross Sections

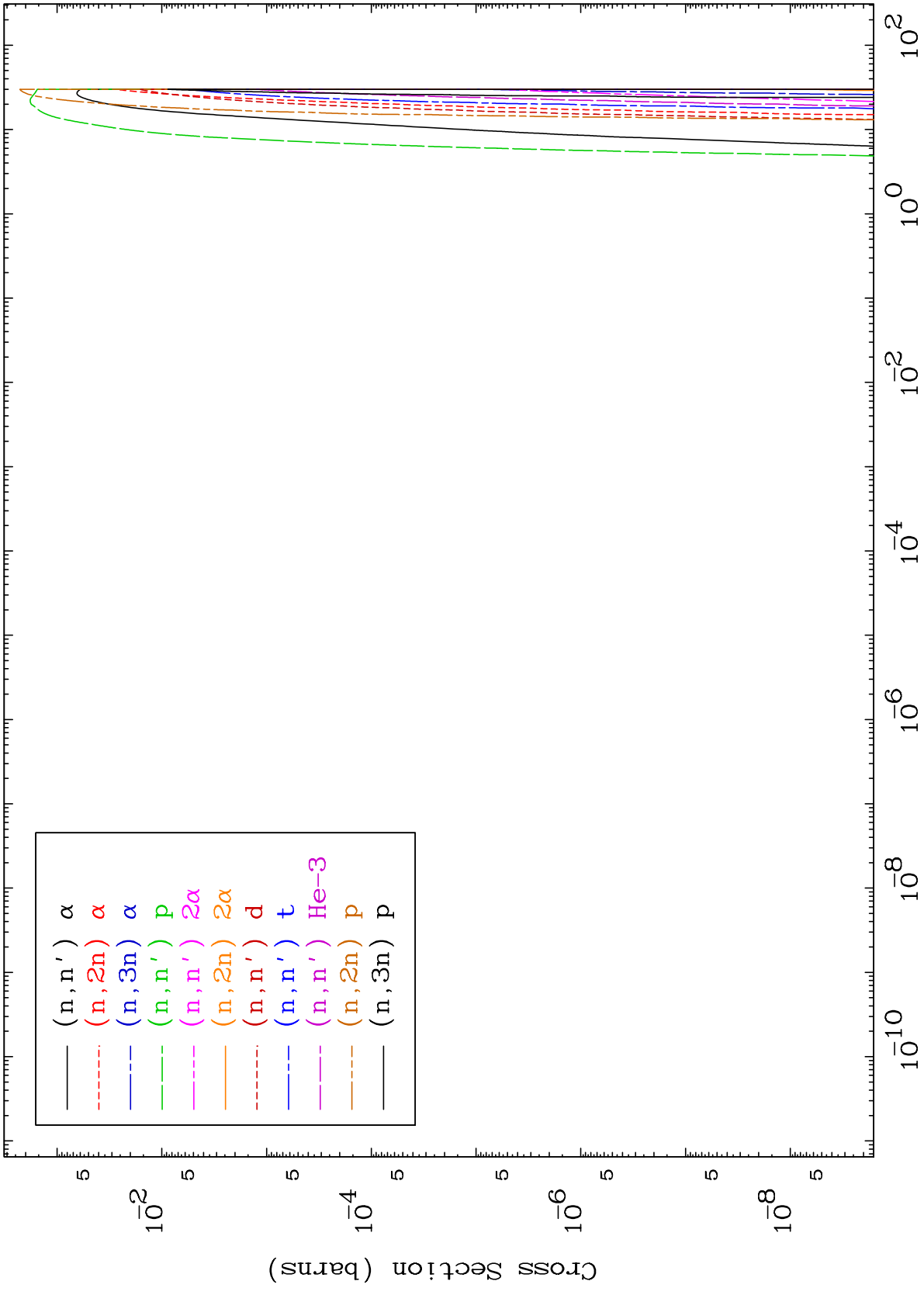
61-Pm-140



61-Pm-140

Neutron Production  
293 Kelvin Cross Sections

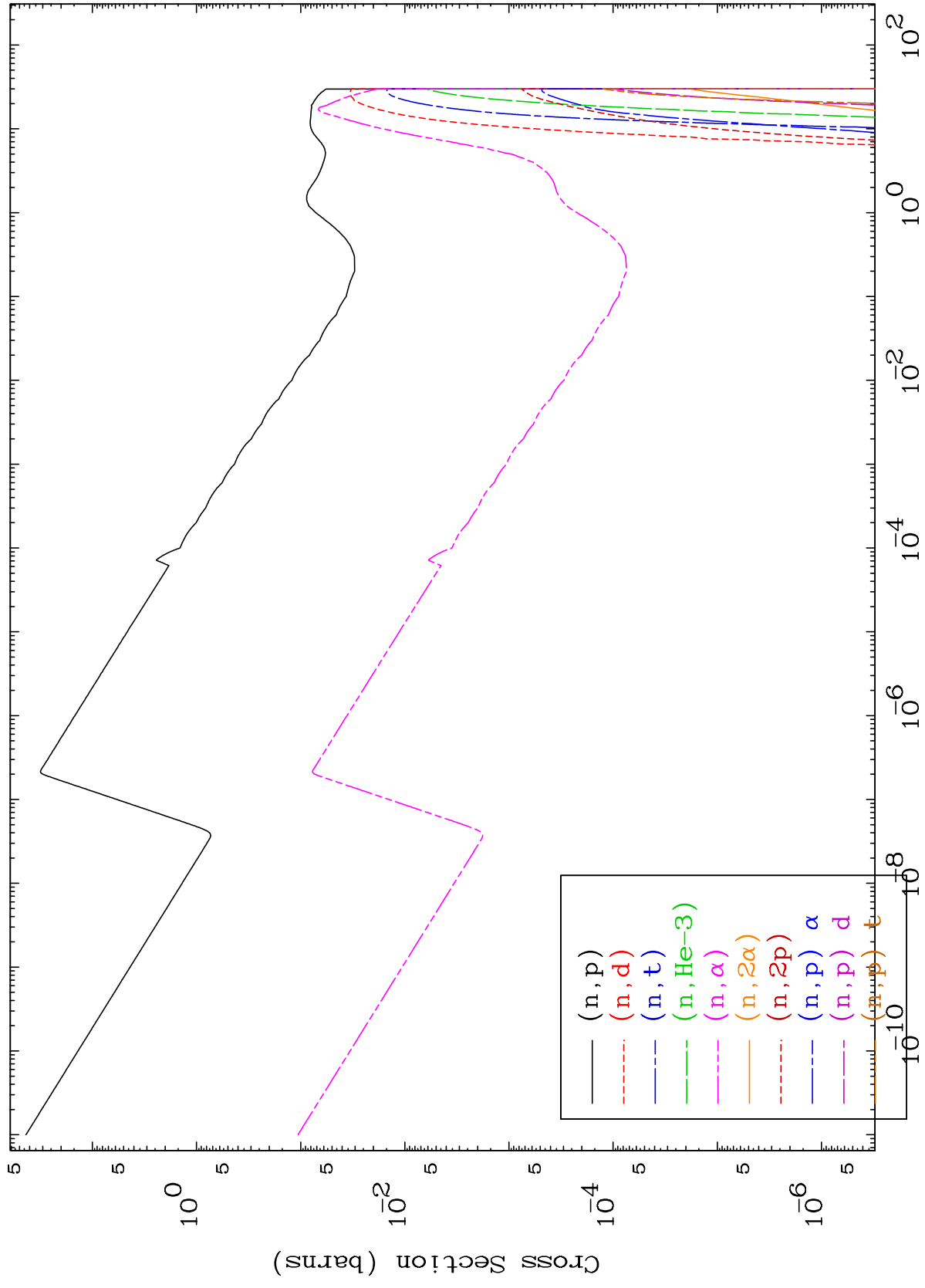




MAT 6129

Charged Particle  
293 Kelvin Cross Sections

61-Pm-140



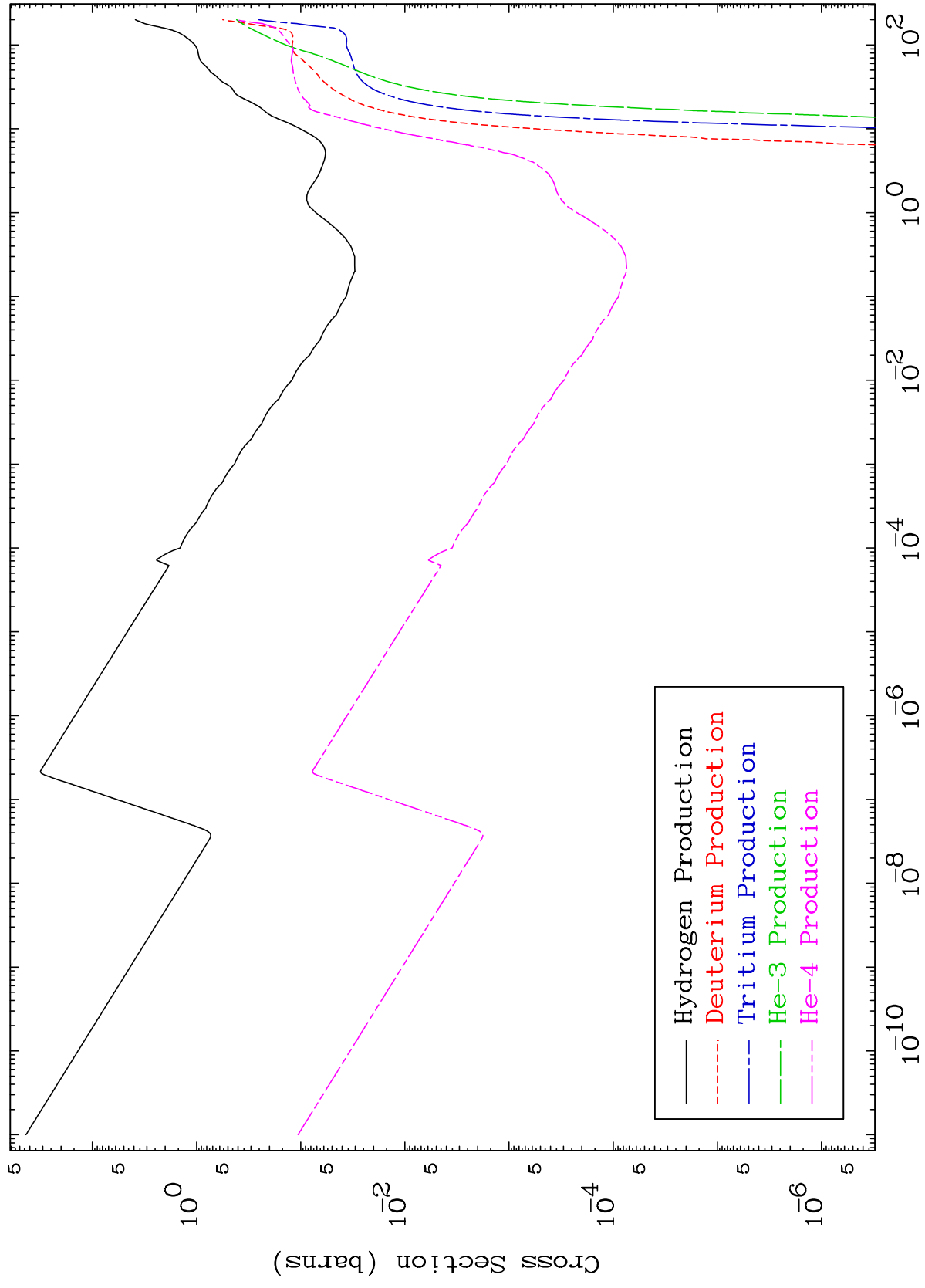
5

61-Pm-140

MAT 6129

Particle Production  
293 Kelvin Cross Sections

61-Pm-140



6

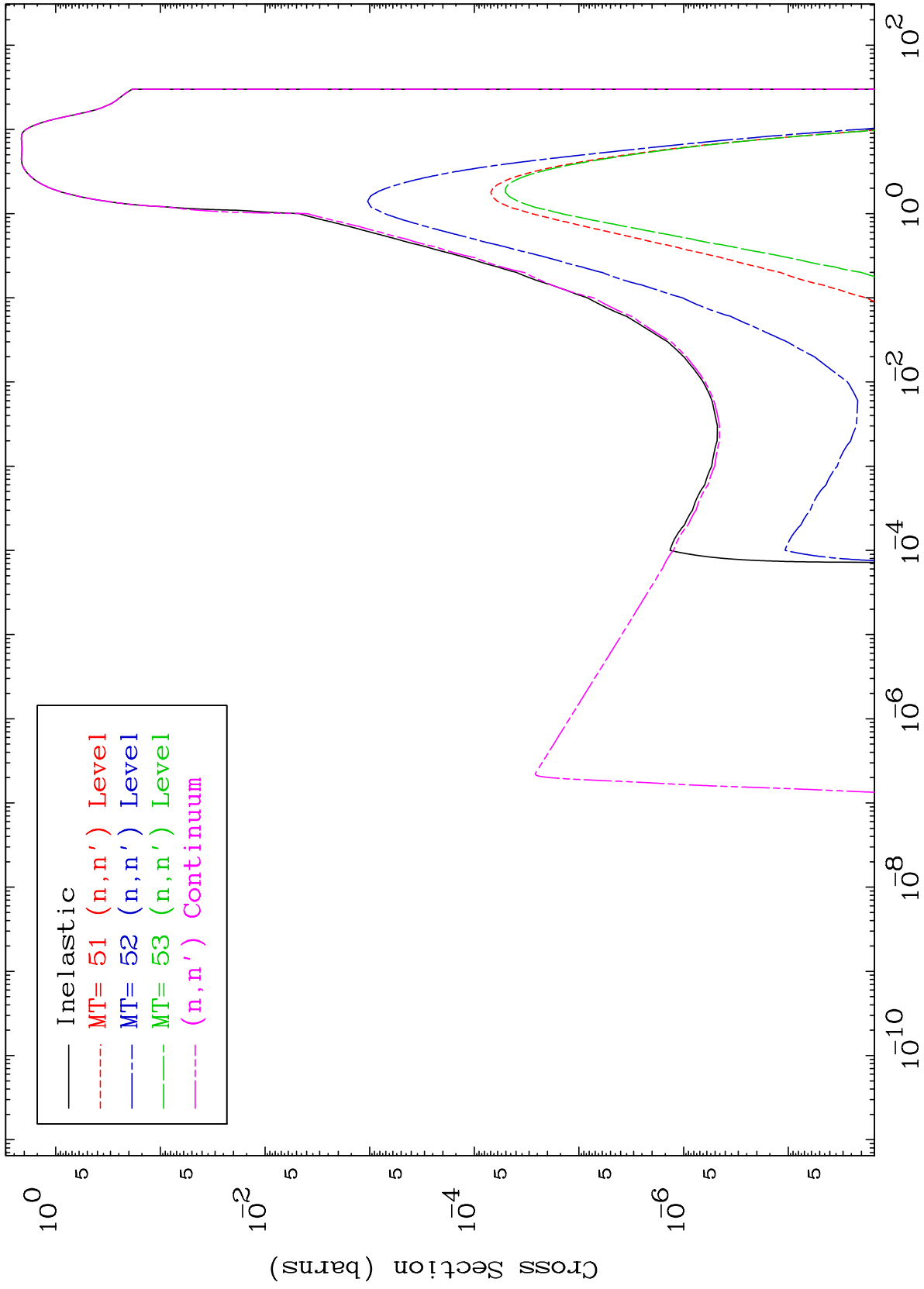
Incident Energy (MeV)

61-Pm-140

MAT 6129

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-140



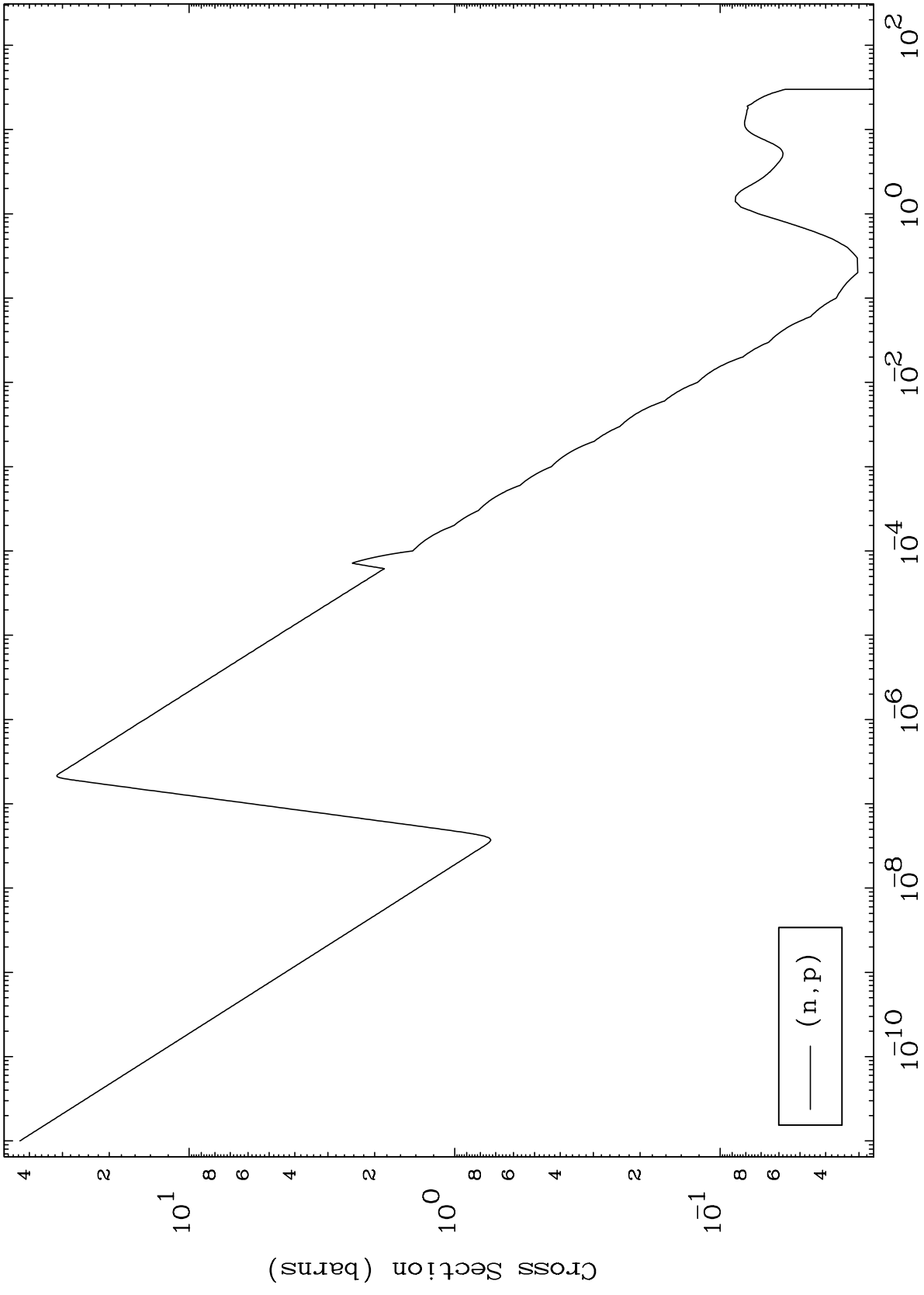
61-Pm-140



MAT 6129

(n,p) Levels  
293 Kelvin Cross Sections

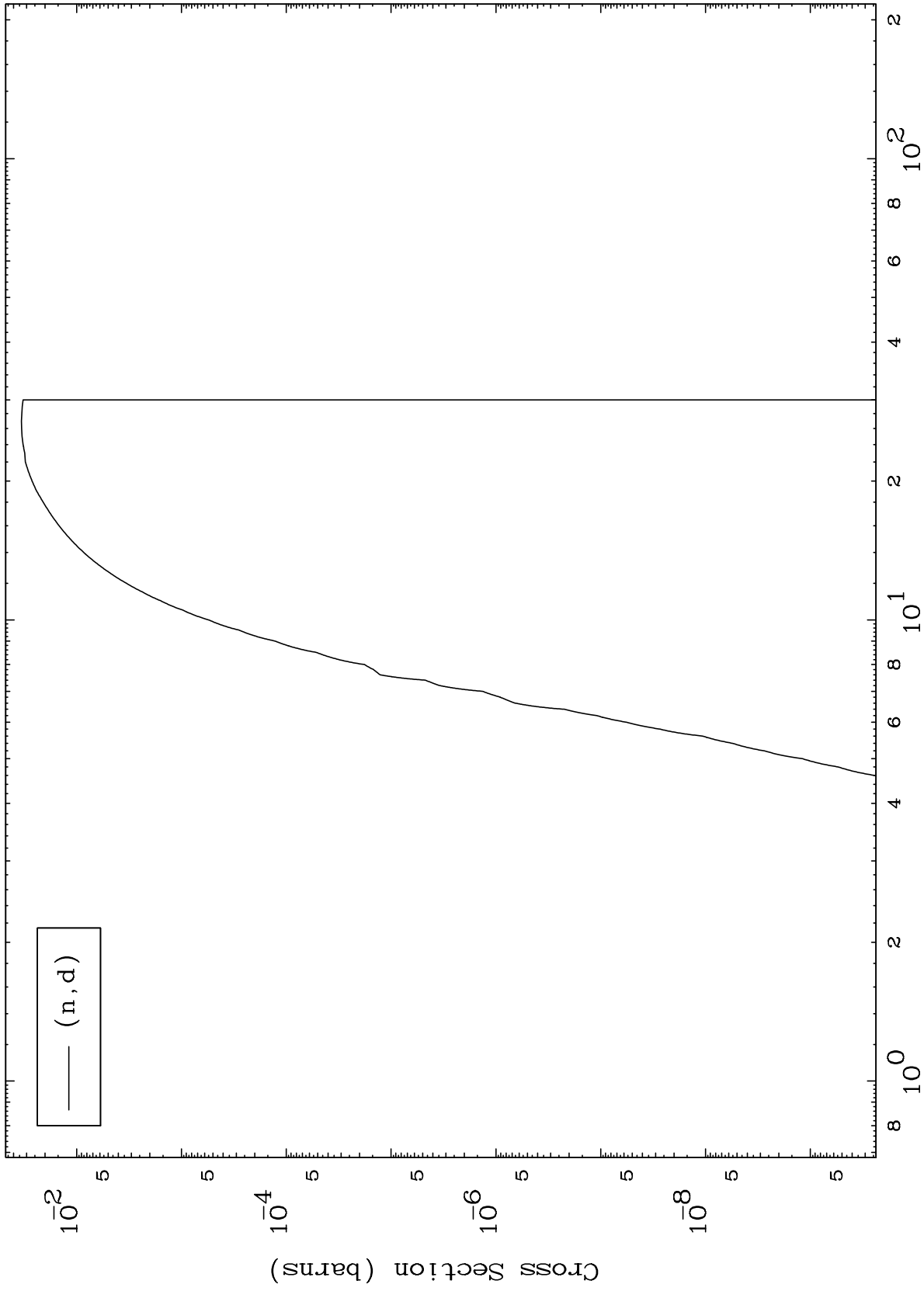
61-Pm-140



MAT 6129

(n,d) Levels  
293 Kelvin Cross Sections

61-Pm-140



9

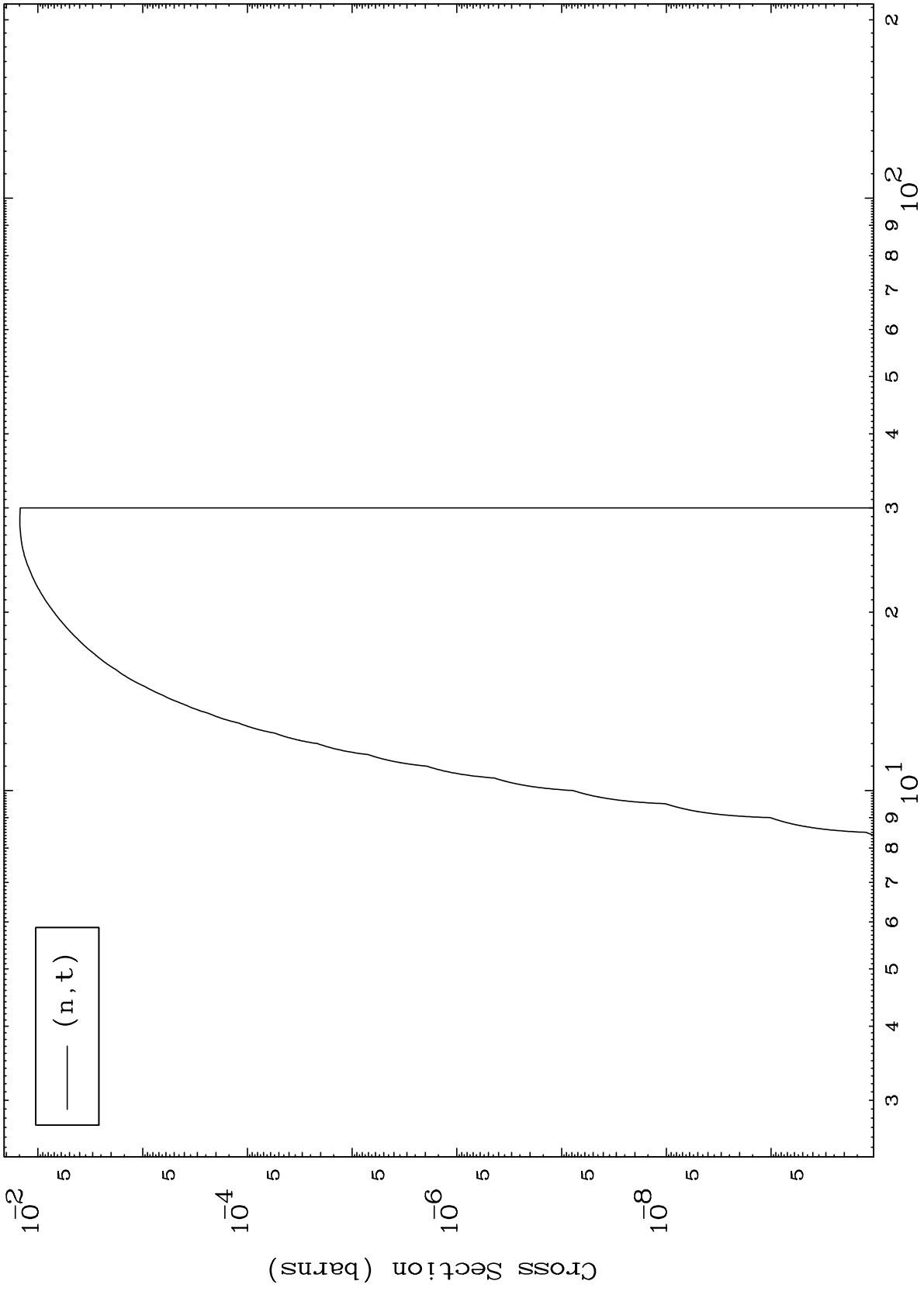
Incident Energy (MeV)

61-Pm-140

MAT 6129

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-140



10

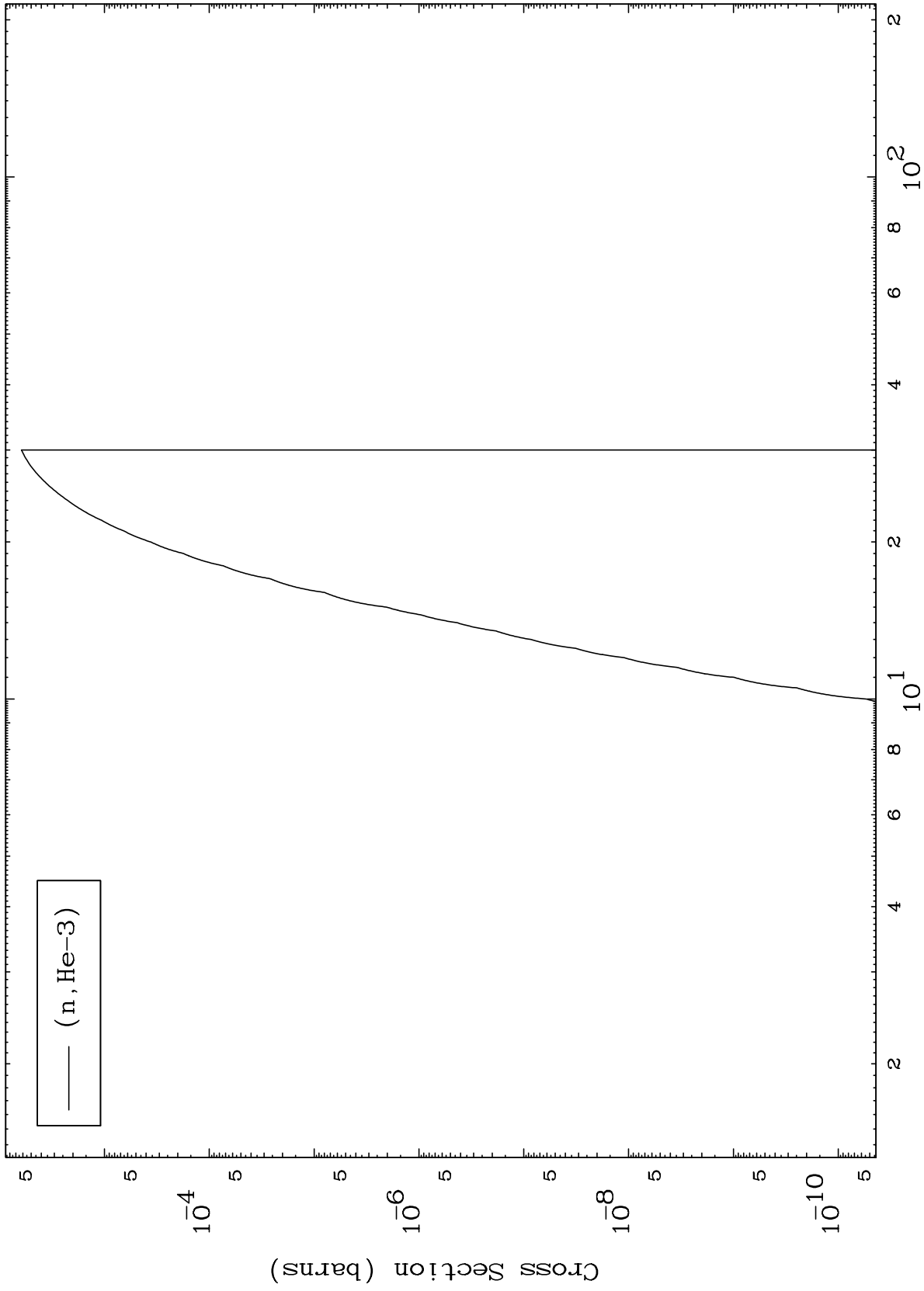
Incident Energy (MeV)

61-Pm-140

MAT 6129

(n,He3) Levels  
293 Kelvin Cross Sections

61-Pm-140



11

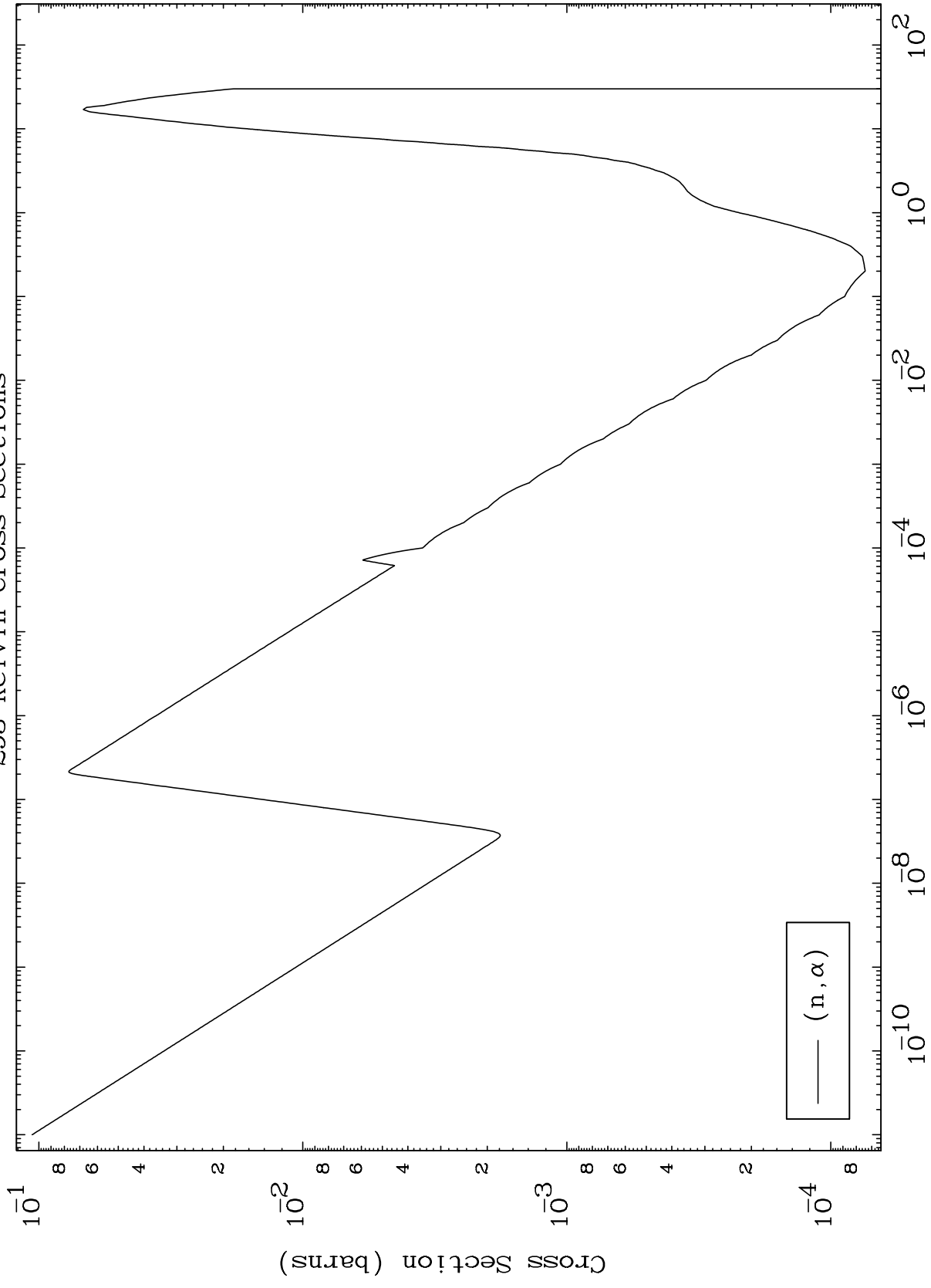
Incident Energy (MeV)

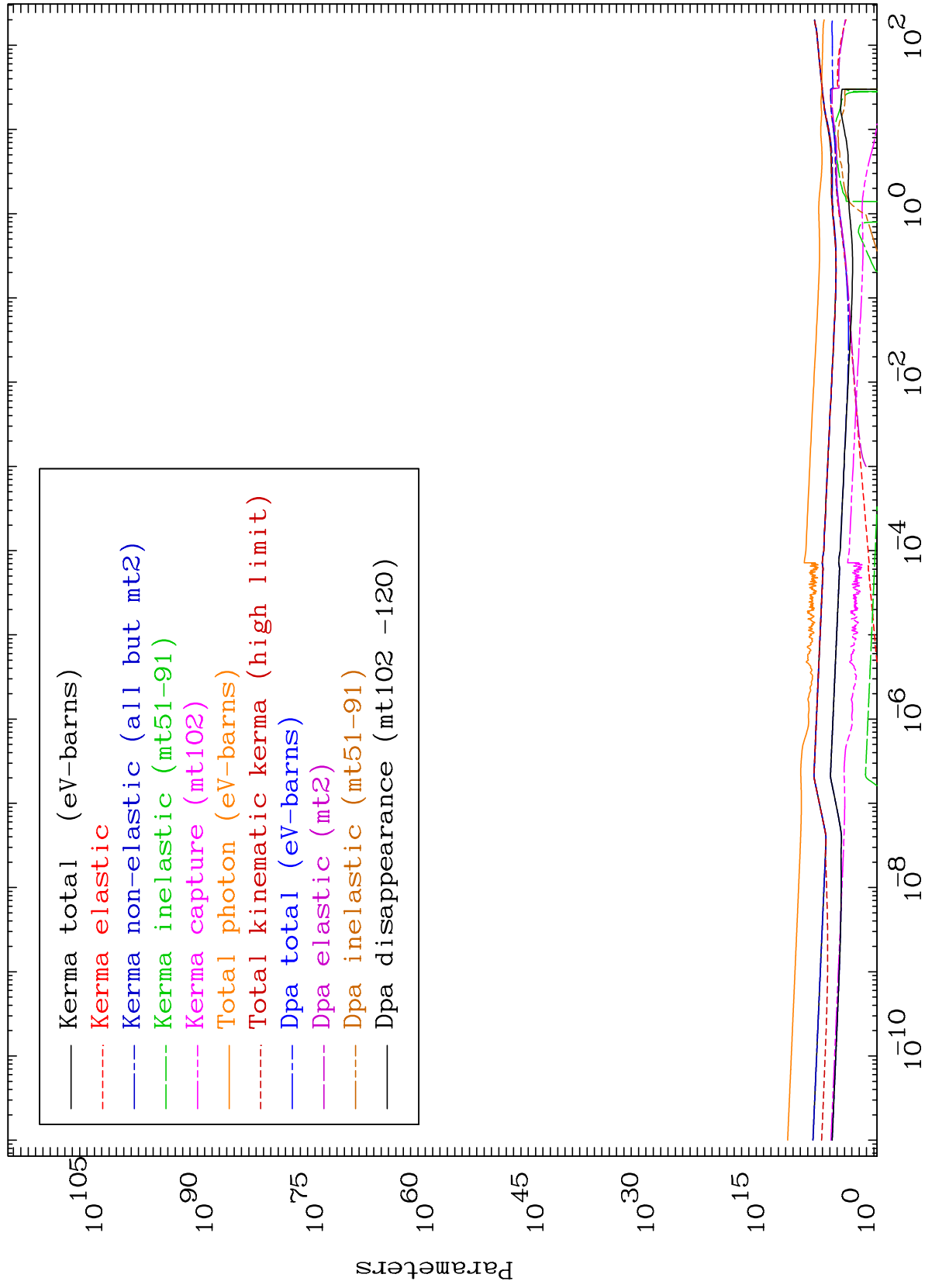
61-Pm-140

MAT 6129

(n,α) Levels  
293 Kelvin Cross Sections

61-Pm-140





MAT 6129

Elastic Legendre Coefficients

61-Pm-140



61-Pm-140

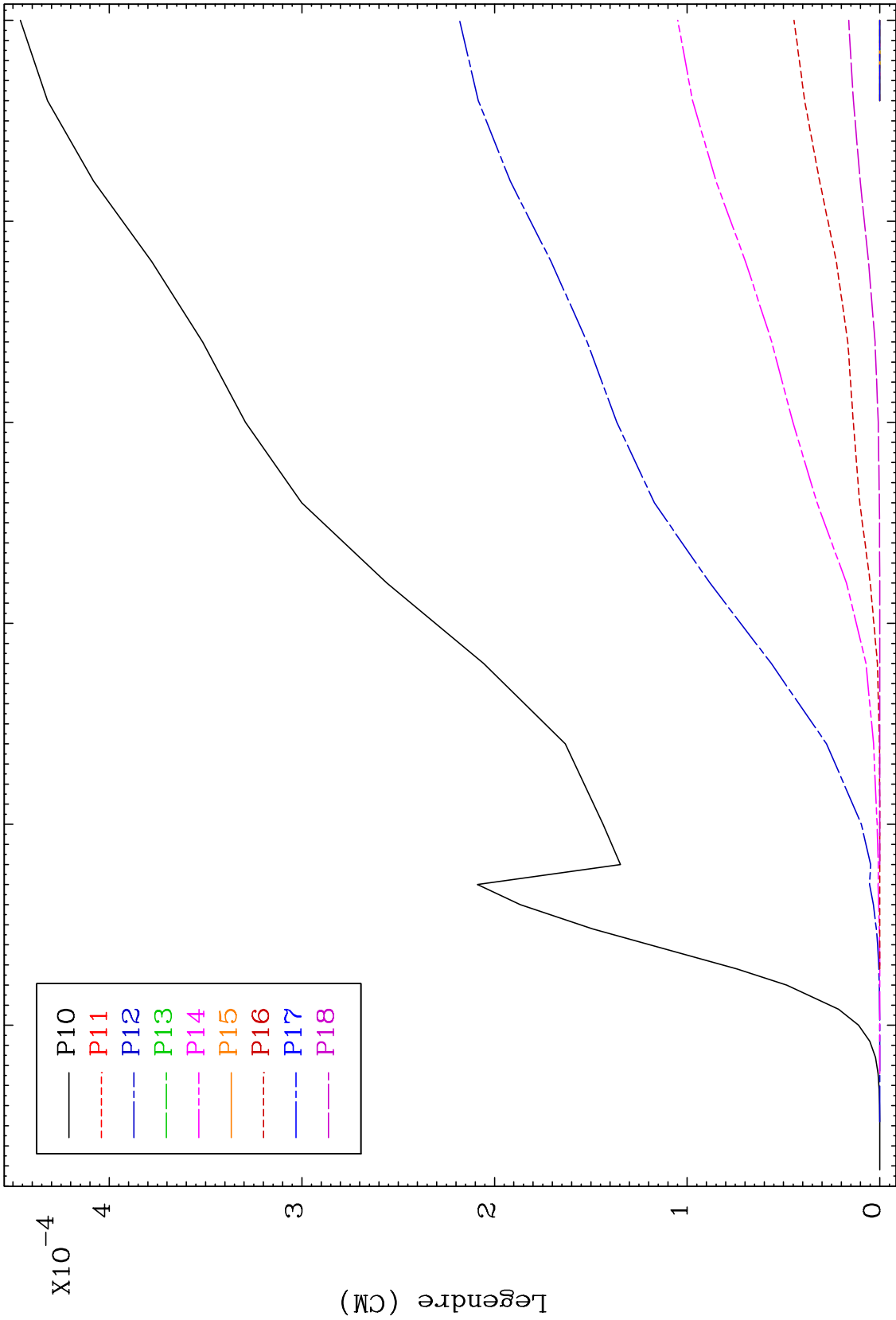
Incident Energy (MeV)

14

MAT 6129

Elastic Legendre Coefficients

61-Pm-140

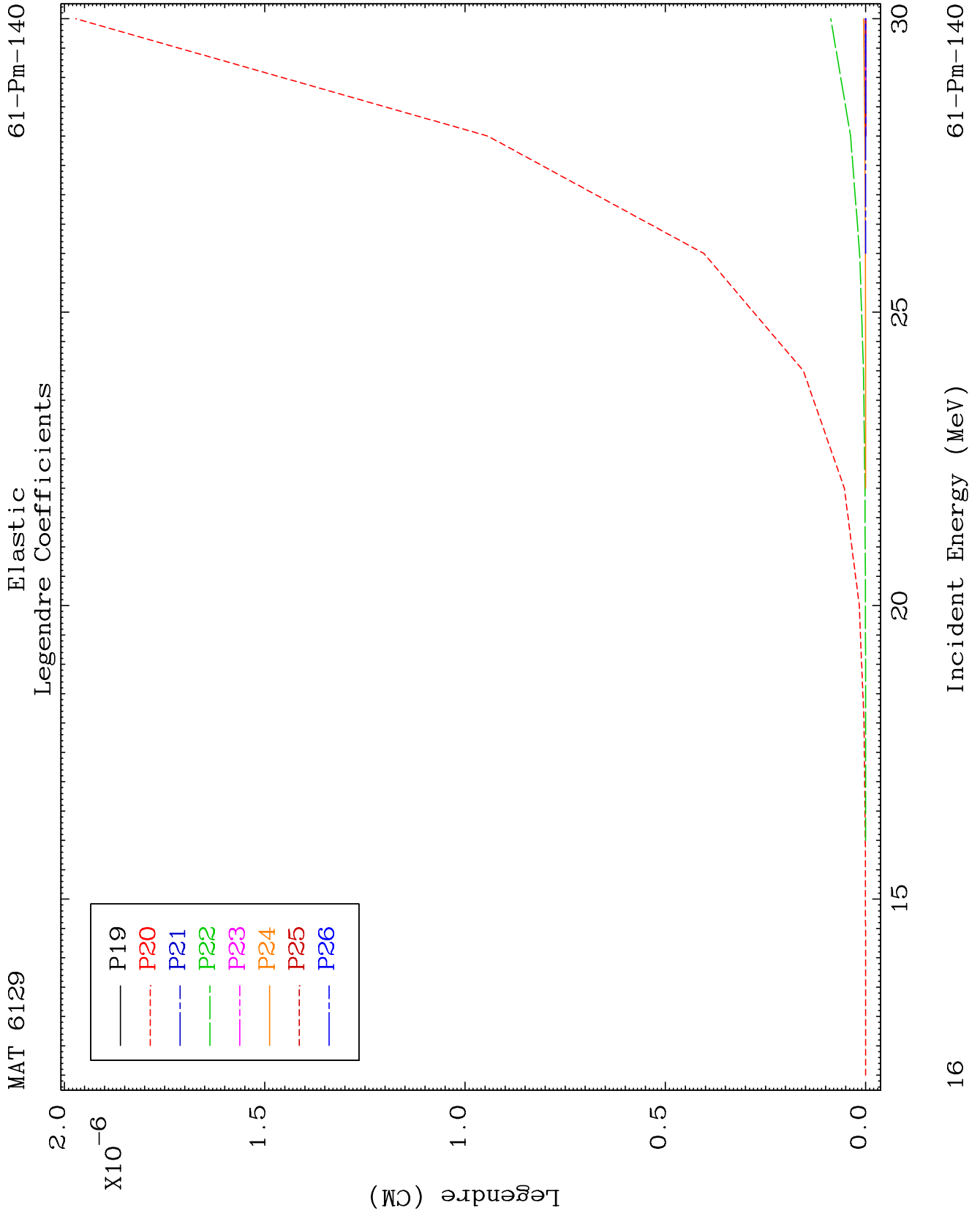


15

Incident Energy (MeV)

61-Pm-140



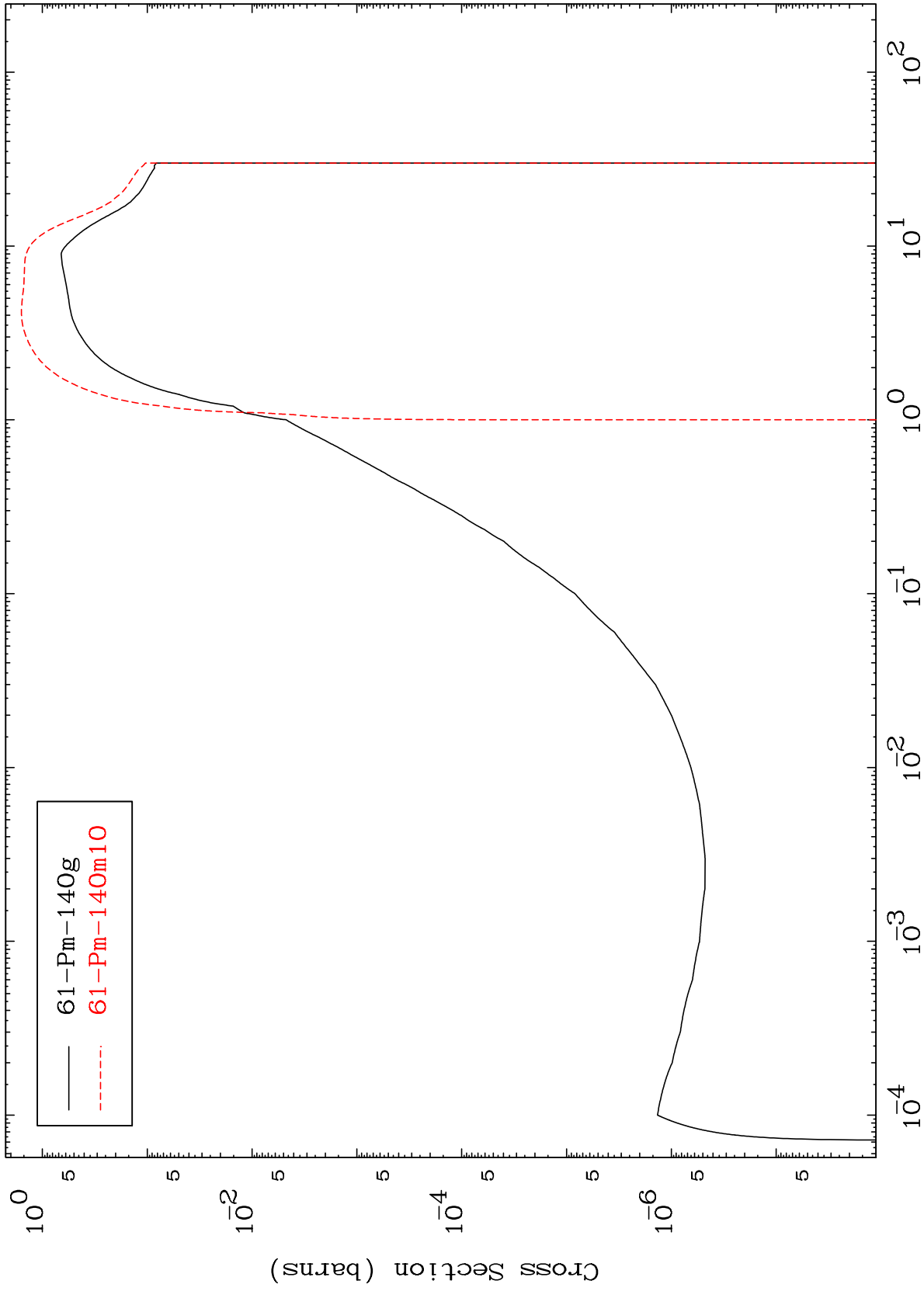


MAT 6129

Inelastic

61-Pm-140

Radionuclide Production Cross Section



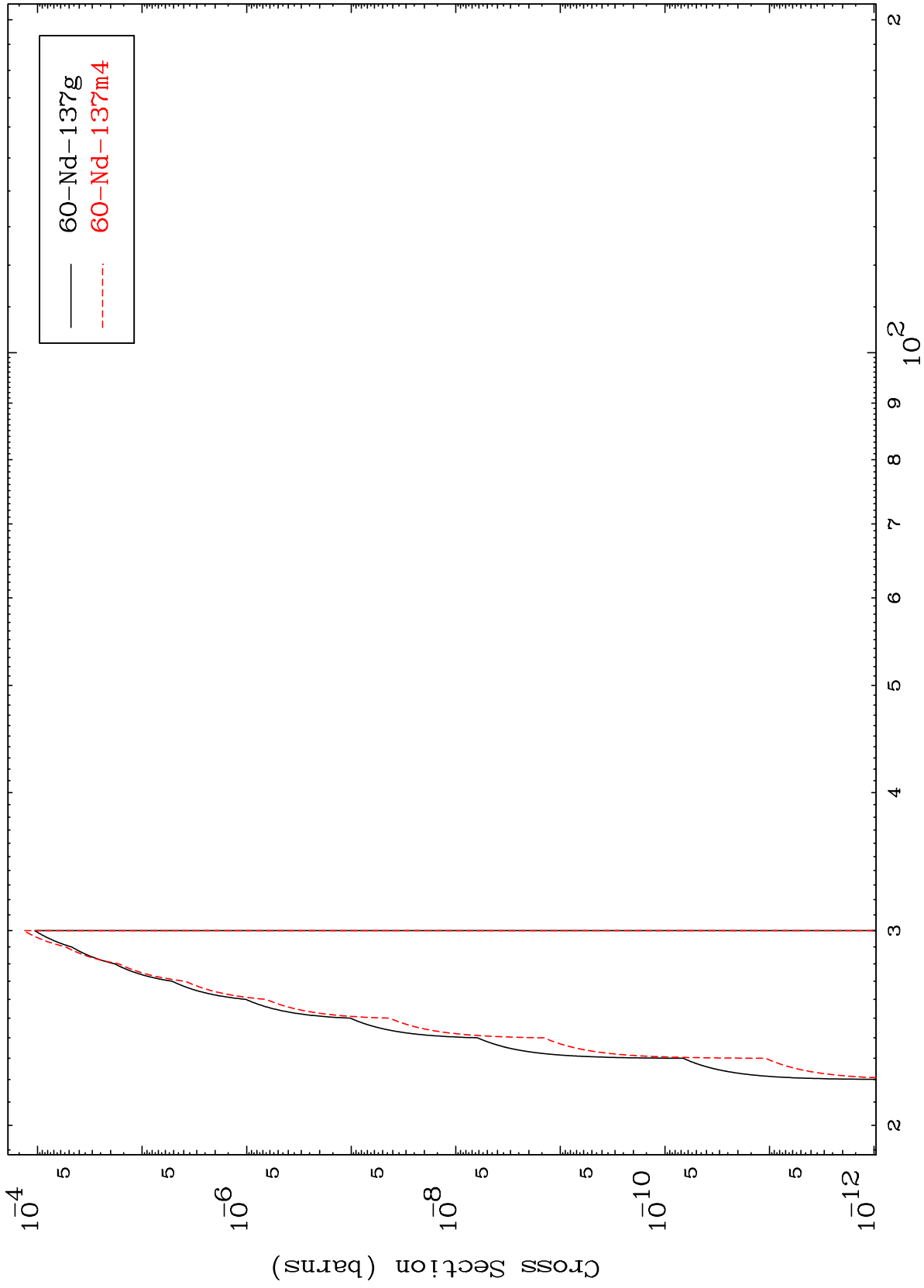
— 61-Pm-140g  
- - - 61-Pm-140m10

MAT 6129

(n,2n) d

61-Pm-140

Radionuclide Production Cross Section



18

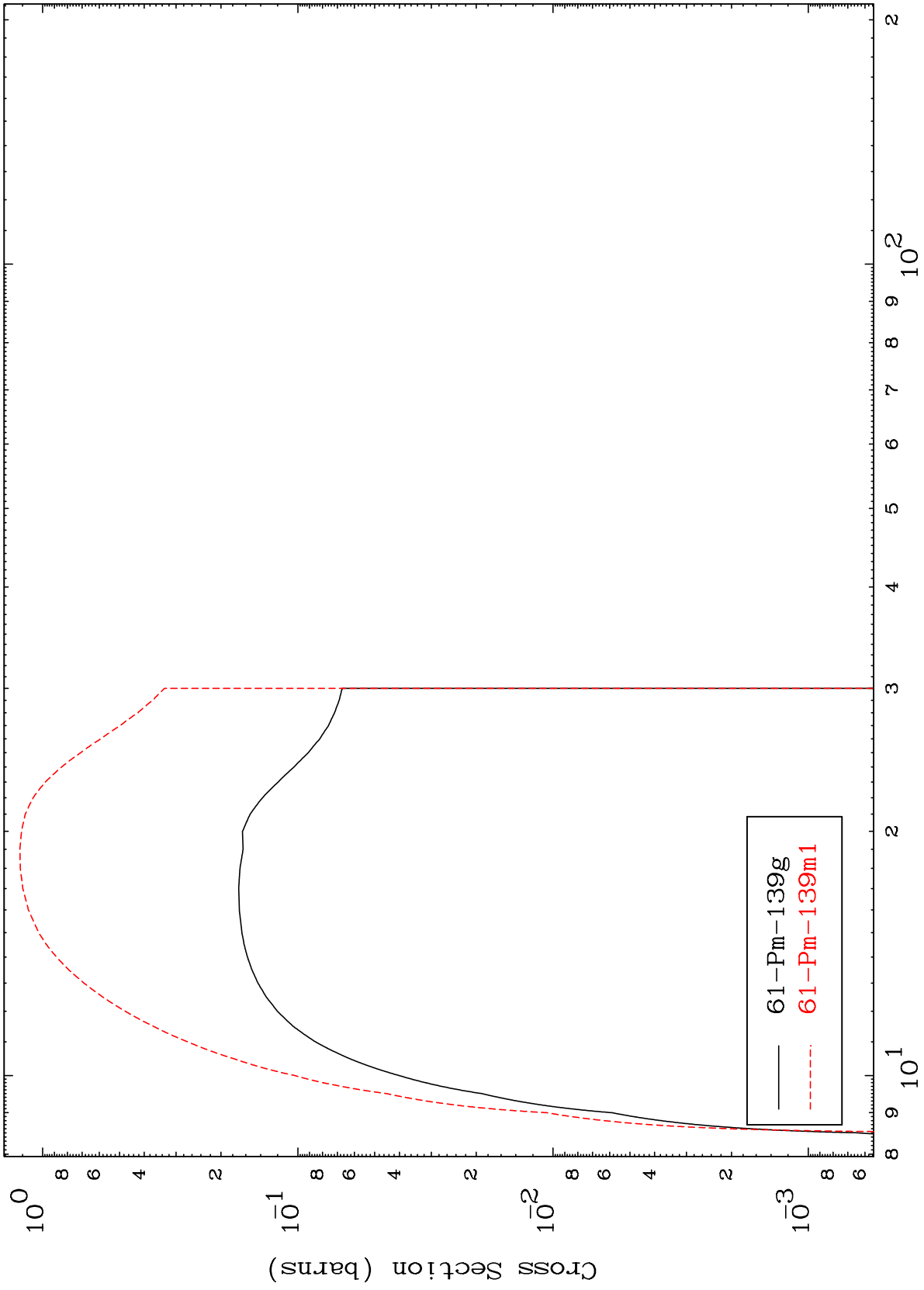
Incident Energy (MeV)

61-Pm-140

MAT 6129

61-Pm-140

(n,2n)  
Radionuclide Production Cross Section



19

Incident Energy (MeV)

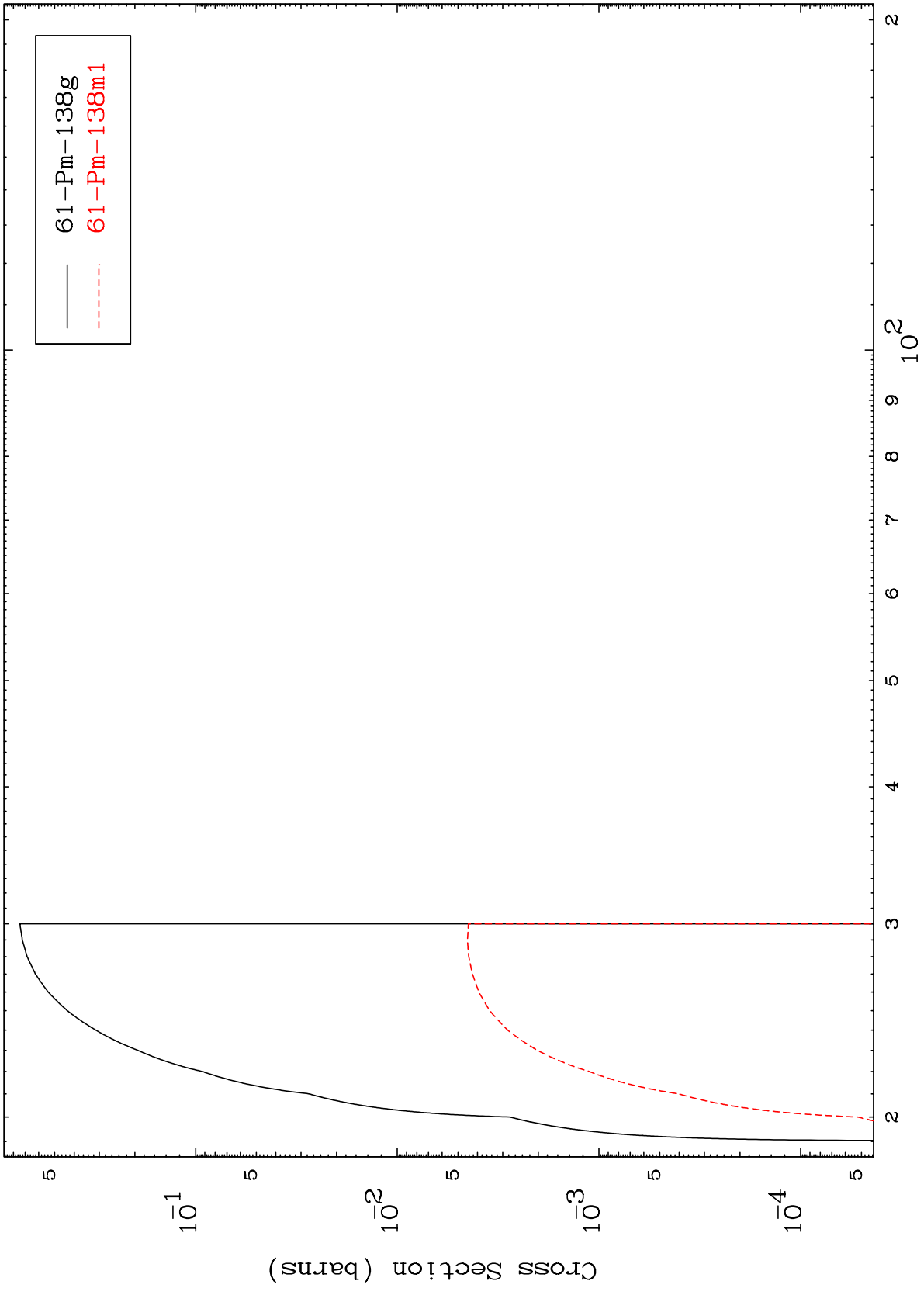
61-Pm-140

MAT 6129

(n,3n)

61-Pm-140

Radionuclide Production Cross Section



20

Incident Energy (MeV)

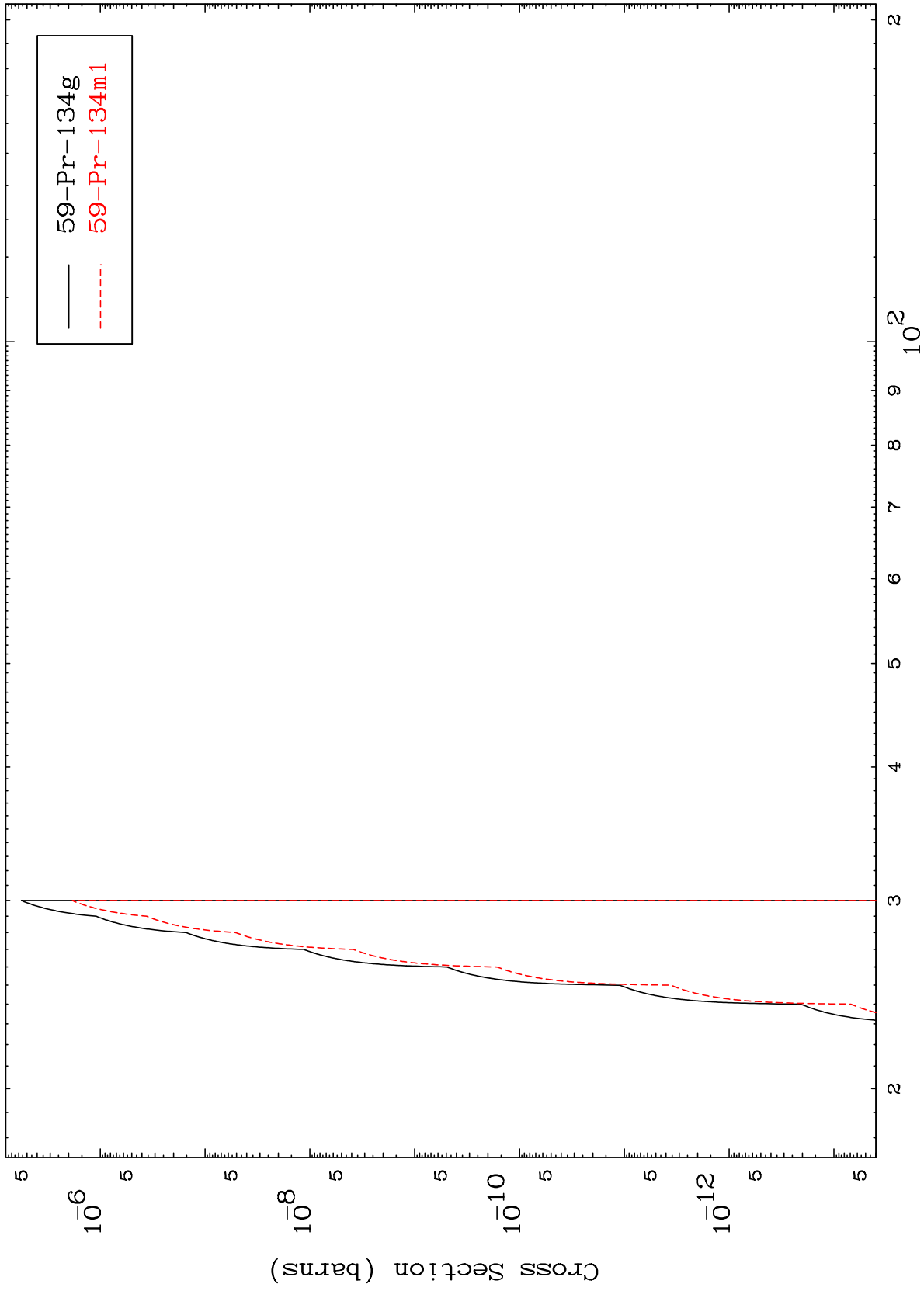
61-Pm-140

MAT 6129

(n,3n)  $\alpha$

61-Pm-140

Radionuclide Production Cross Section



21

Incident Energy (MeV)

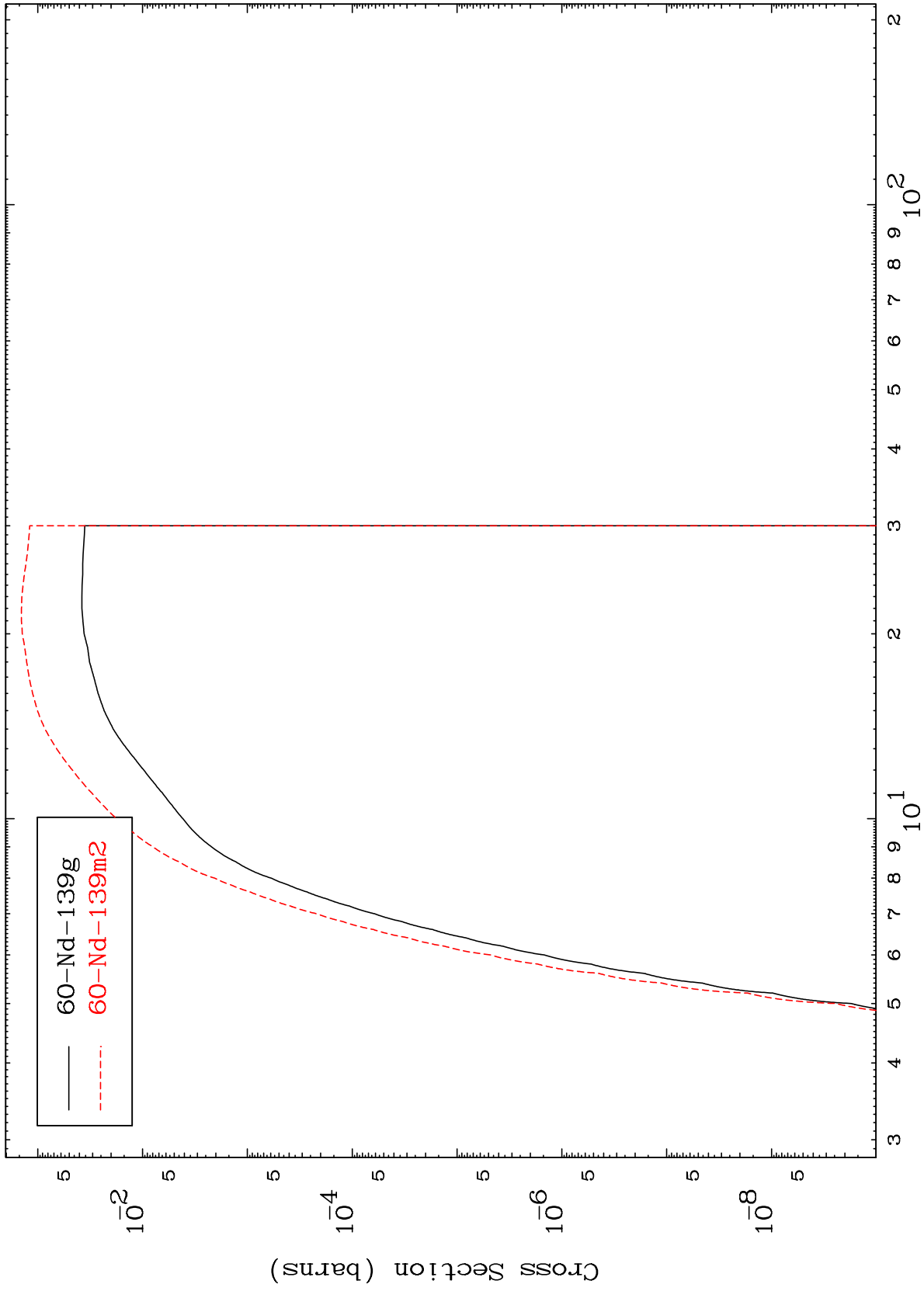
61-Pm-140

MAT 6129

(n,n') p

61-Pm-140

Radionuclide Production Cross Section



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

22

Incident Energy (MeV)

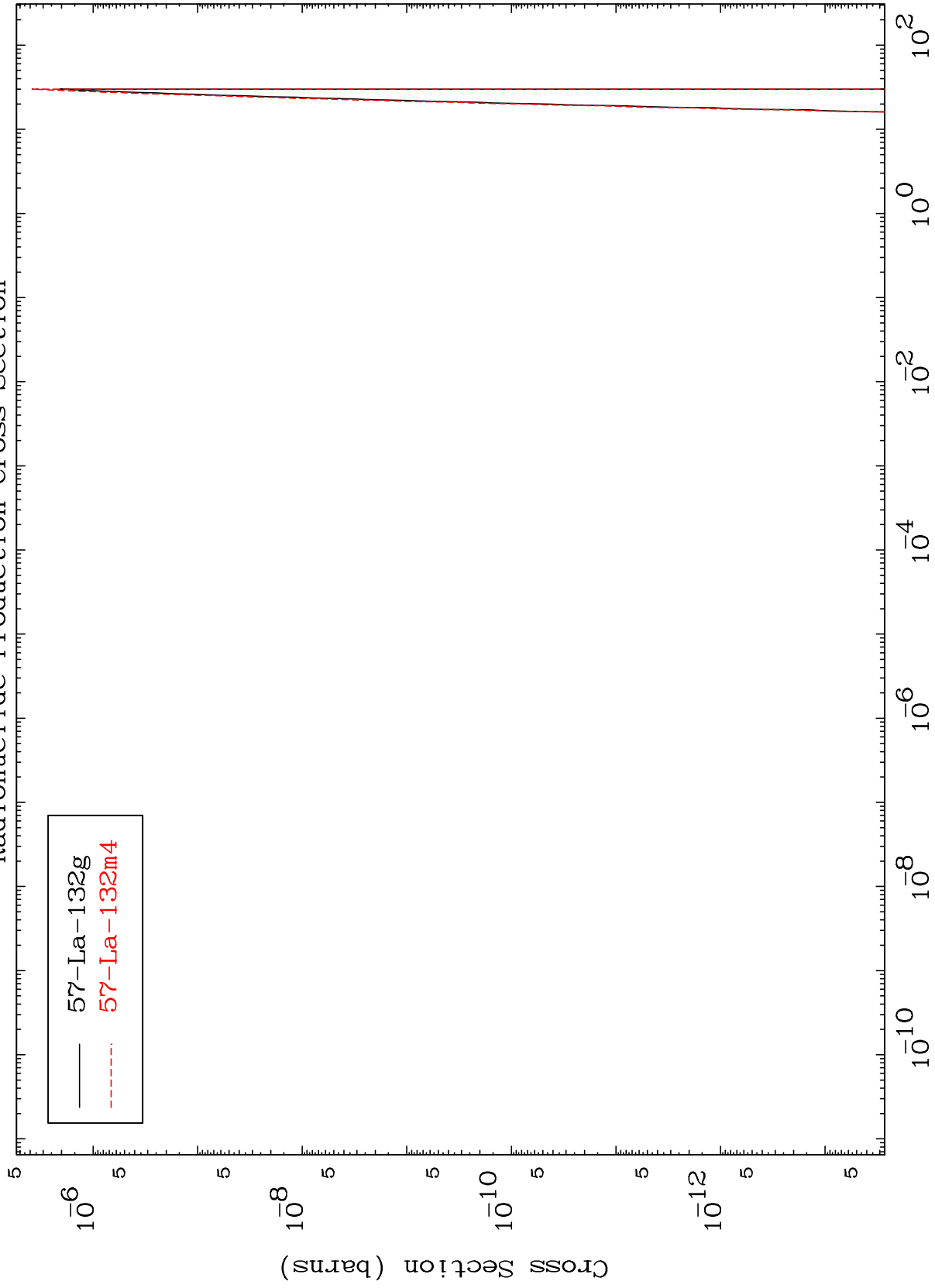
61-Pm-140

MAT 6129

(n,n') 2 $\alpha$

61-Pm-140

Radionuclide Production Cross Section



23

Incident Energy (MeV)

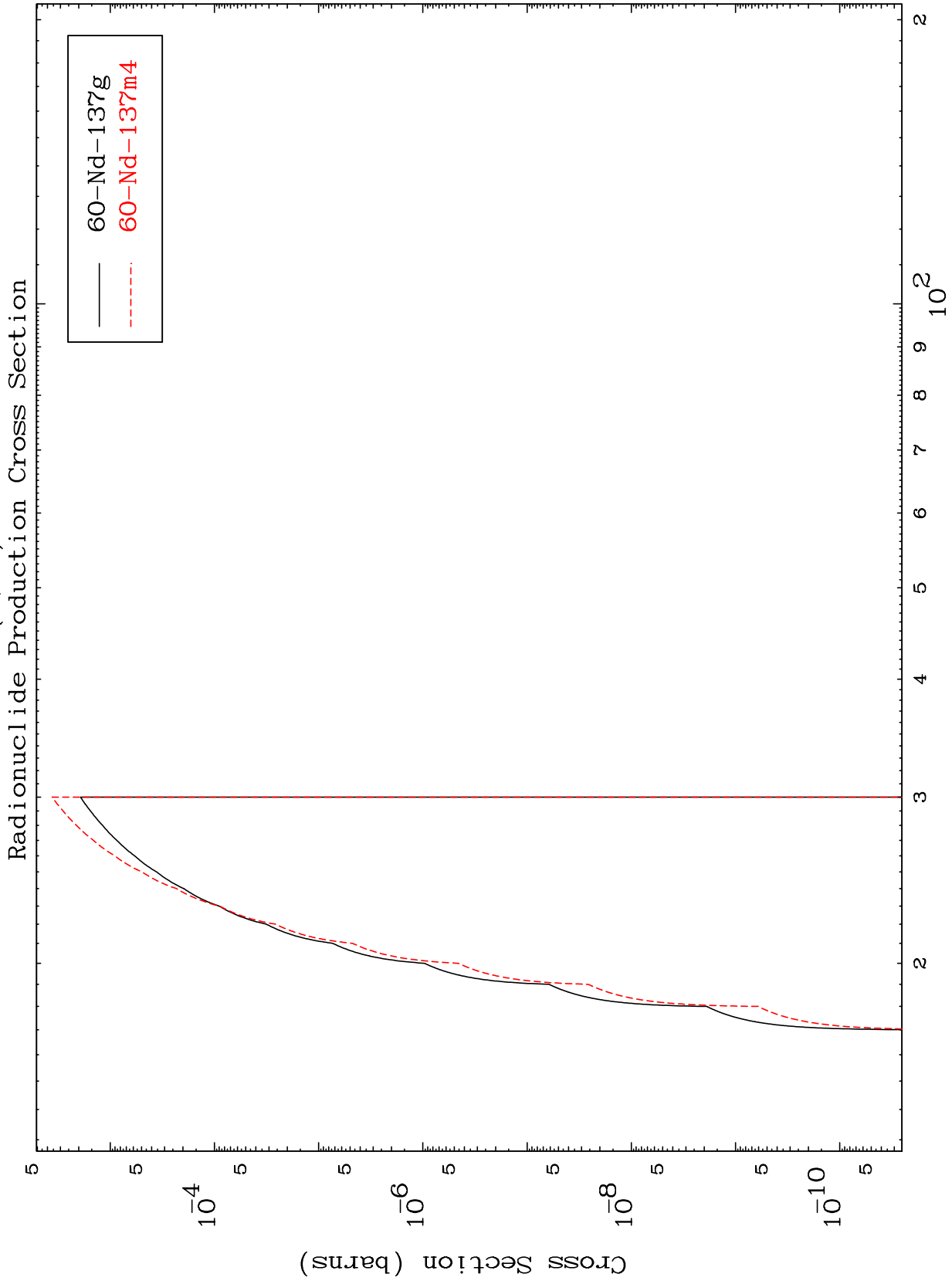
61-Pm-140



MAT 6129

(n,n') t

61-Pm-140



24

Incident Energy (MeV)

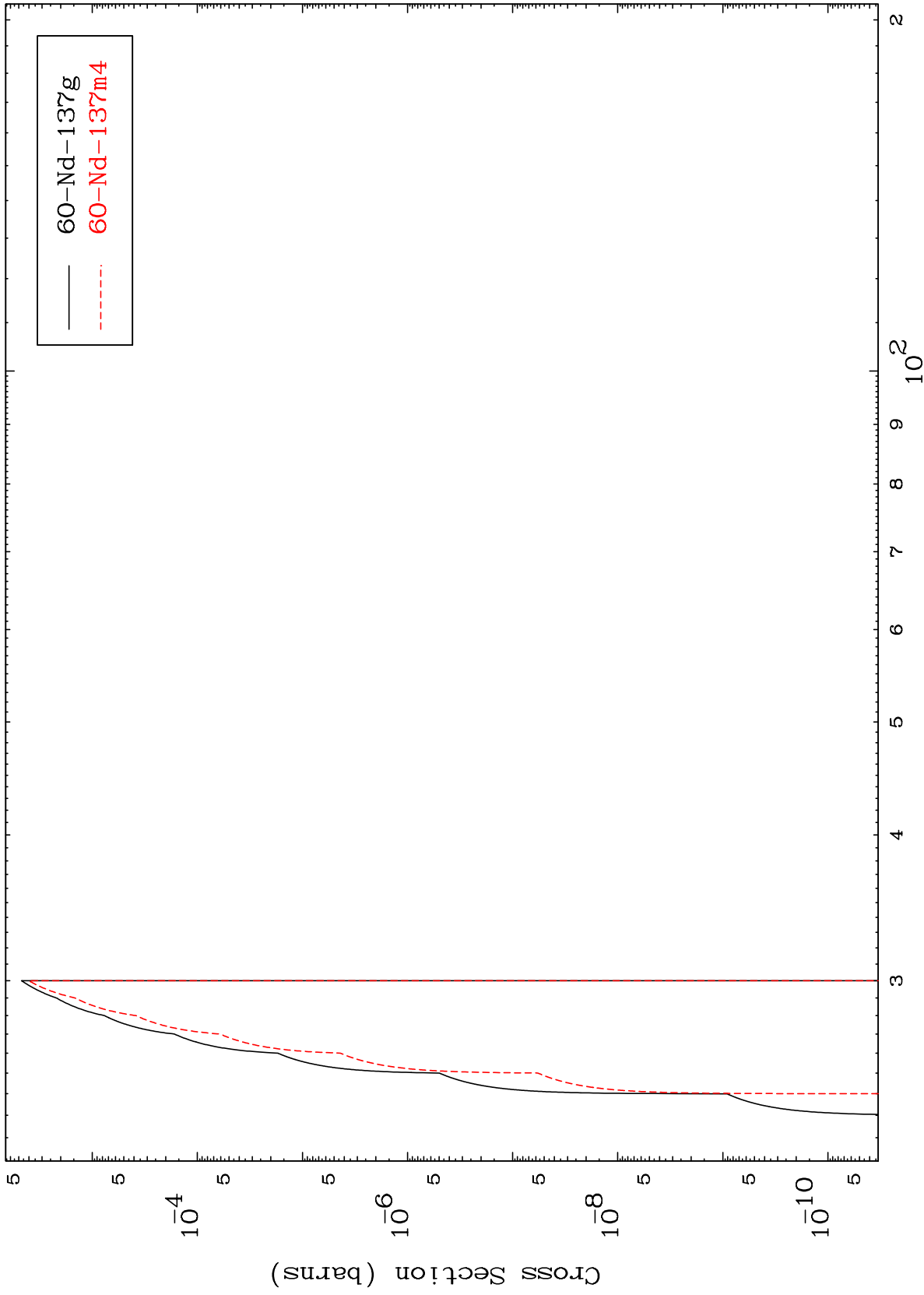
61-Pm-140

MAT 6129

(n,3n) p

61-Pm-140

Radionuclide Production Cross Section



25

Incident Energy (MeV)

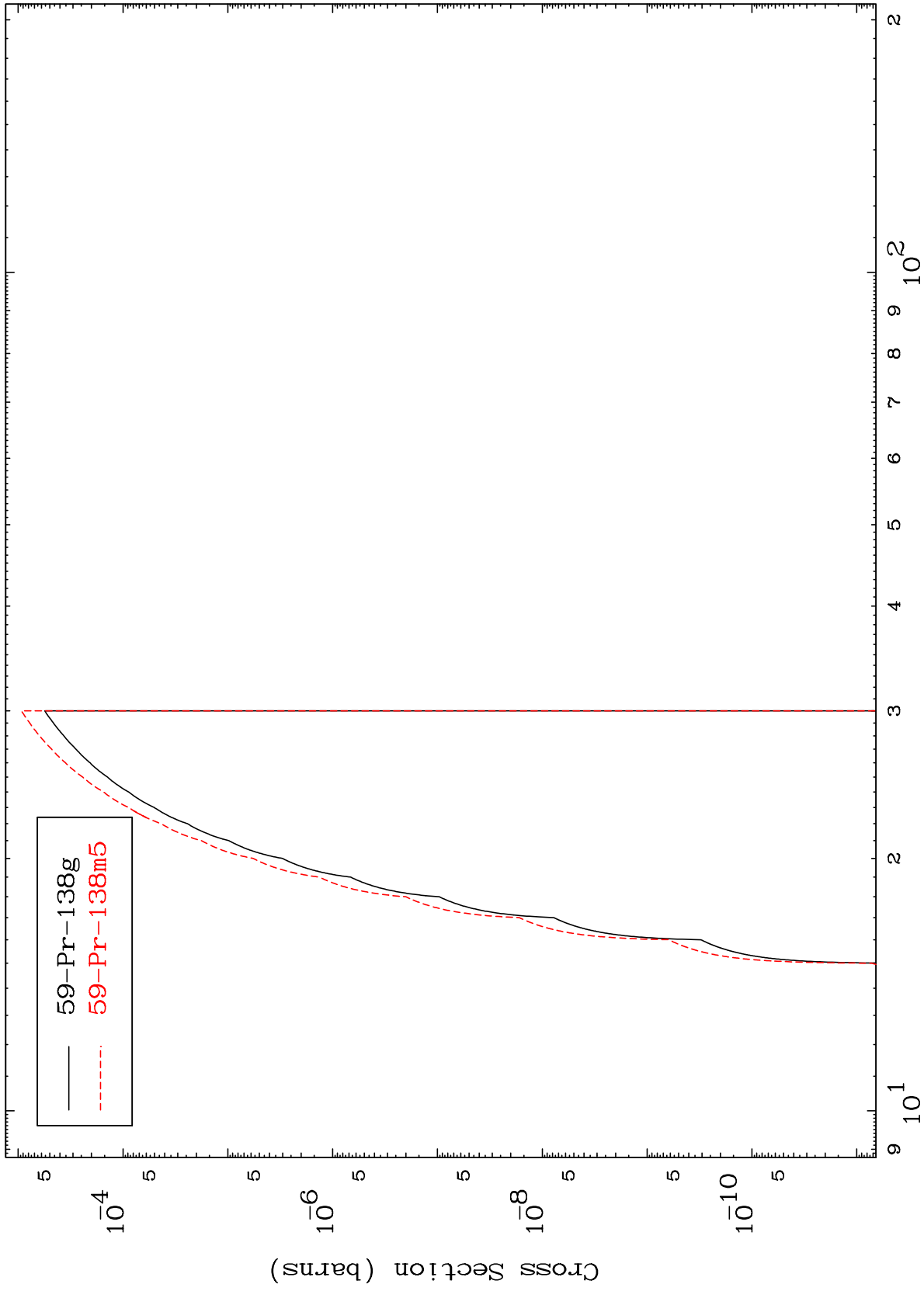
61-Pm-140

MAT 6129

(n,2n) p

61-Pm-140

Radionuclide Production Cross Section



26

Incident Energy (MeV)

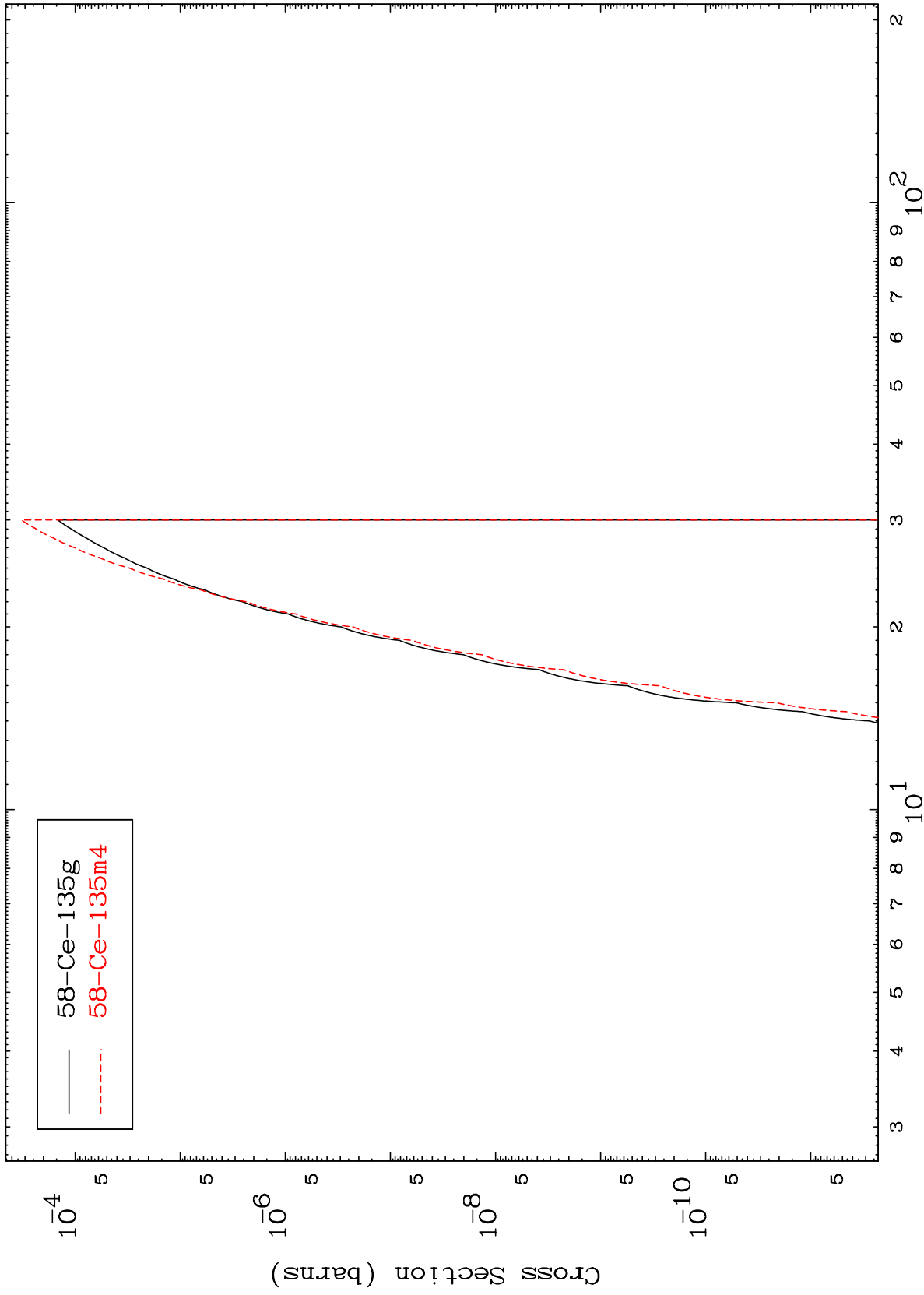
61-Pm-140

MAT 6129

(n,n') p  $\alpha$

61-Pm-140

Radionuclide Production Cross Section



27

Incident Energy (MeV)

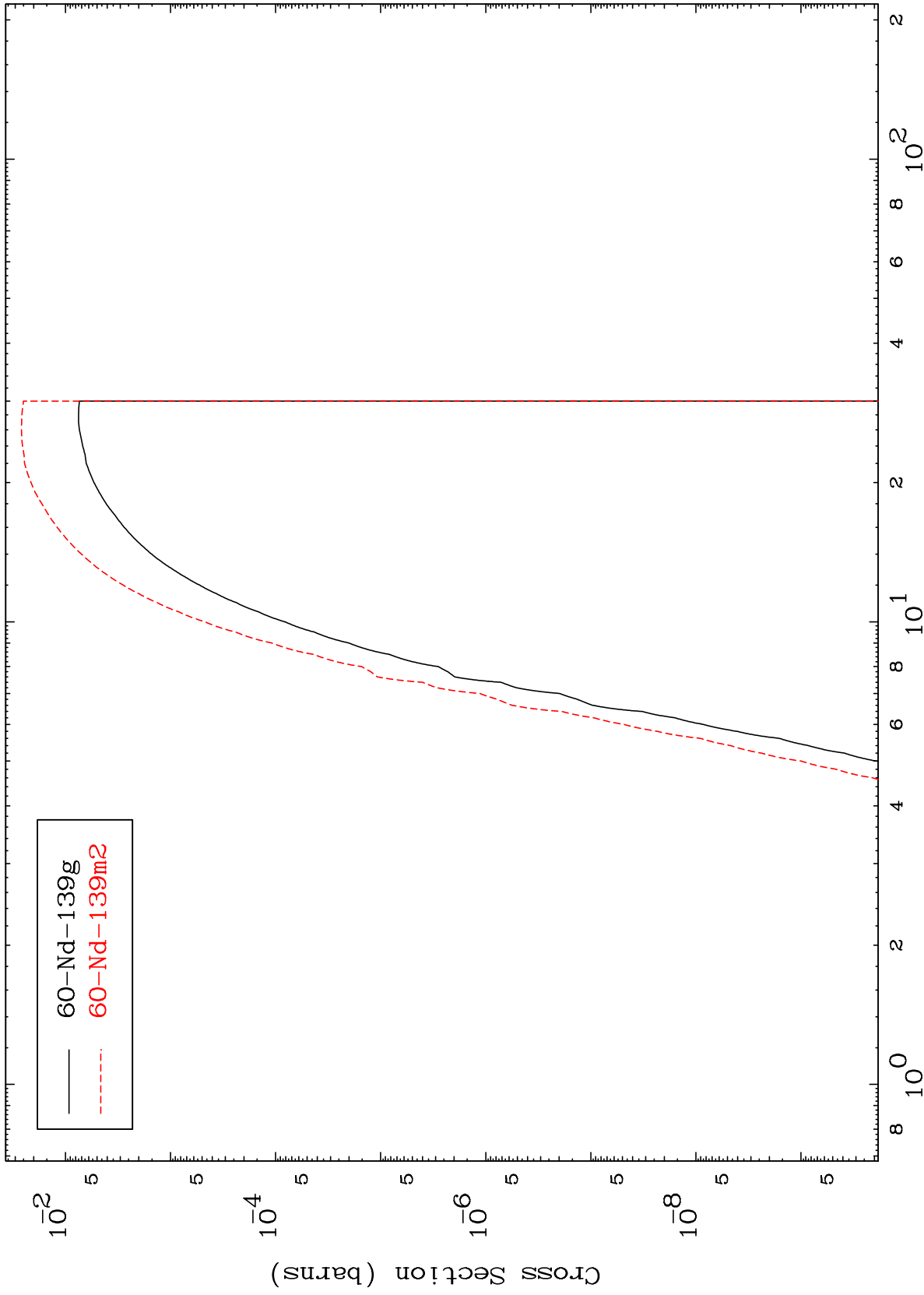
61-Pm-140

MAT 6129

(n,d)

61-Pm-140

Radionuclide Production Cross Section



28

Incident Energy (MeV)

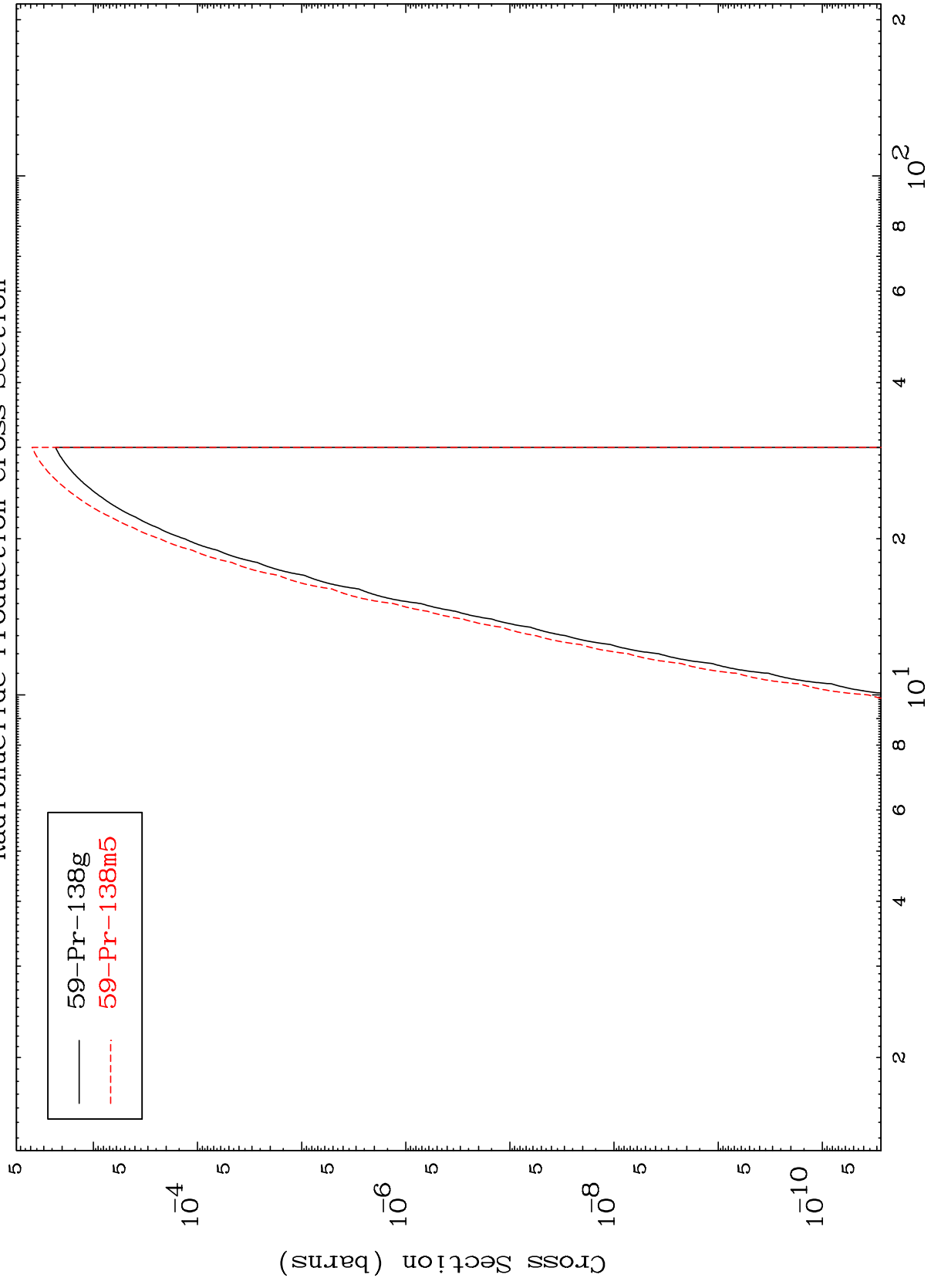
61-Pm-140

MAT 6129

(n, He-3)

61-Pm-140

Radionuclide Production Cross Section



29

Incident Energy (MeV)

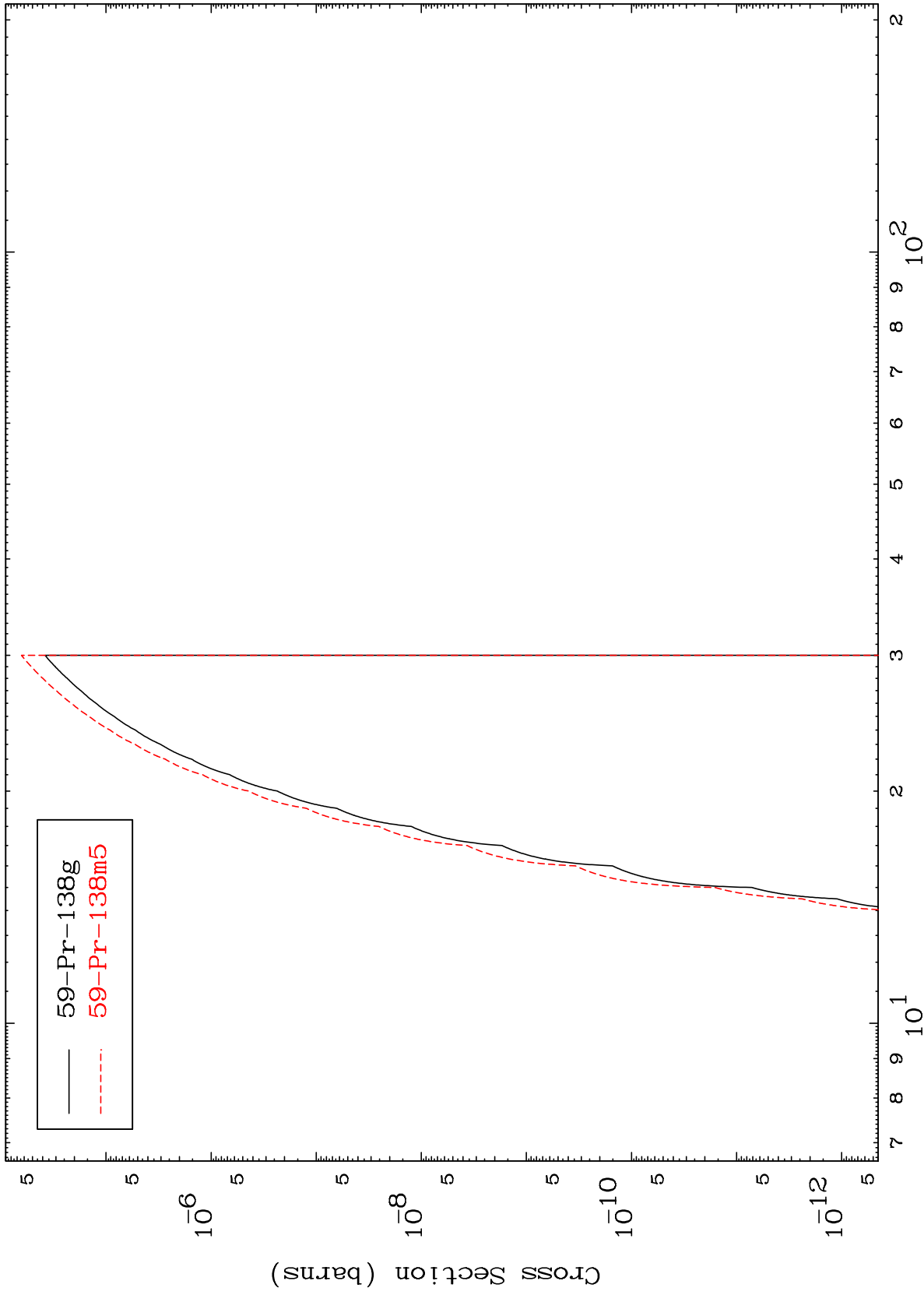
61-Pm-140

MAT 6129

(n,p) d

61-Pm-140

Radionuclide Production Cross Section



30

Incident Energy (MeV)

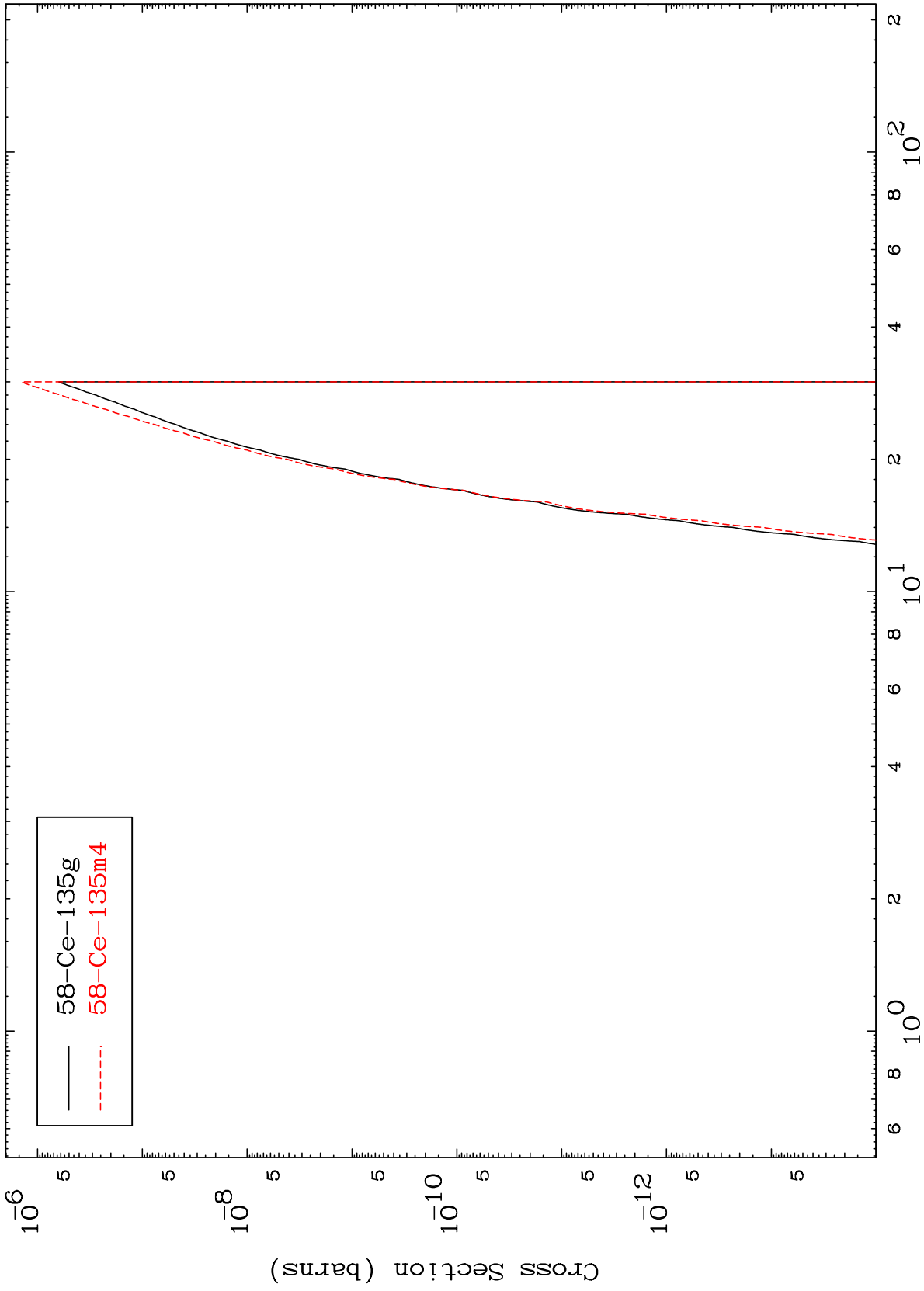
61-Pm-140

MAT 6129

(n,d)  $\alpha$

61-Pm-140

Radionuclide Production Cross Section



31

Incident Energy (MeV)

61-Pm-140