

Program EVALPLOT
(Version 2021-1)

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

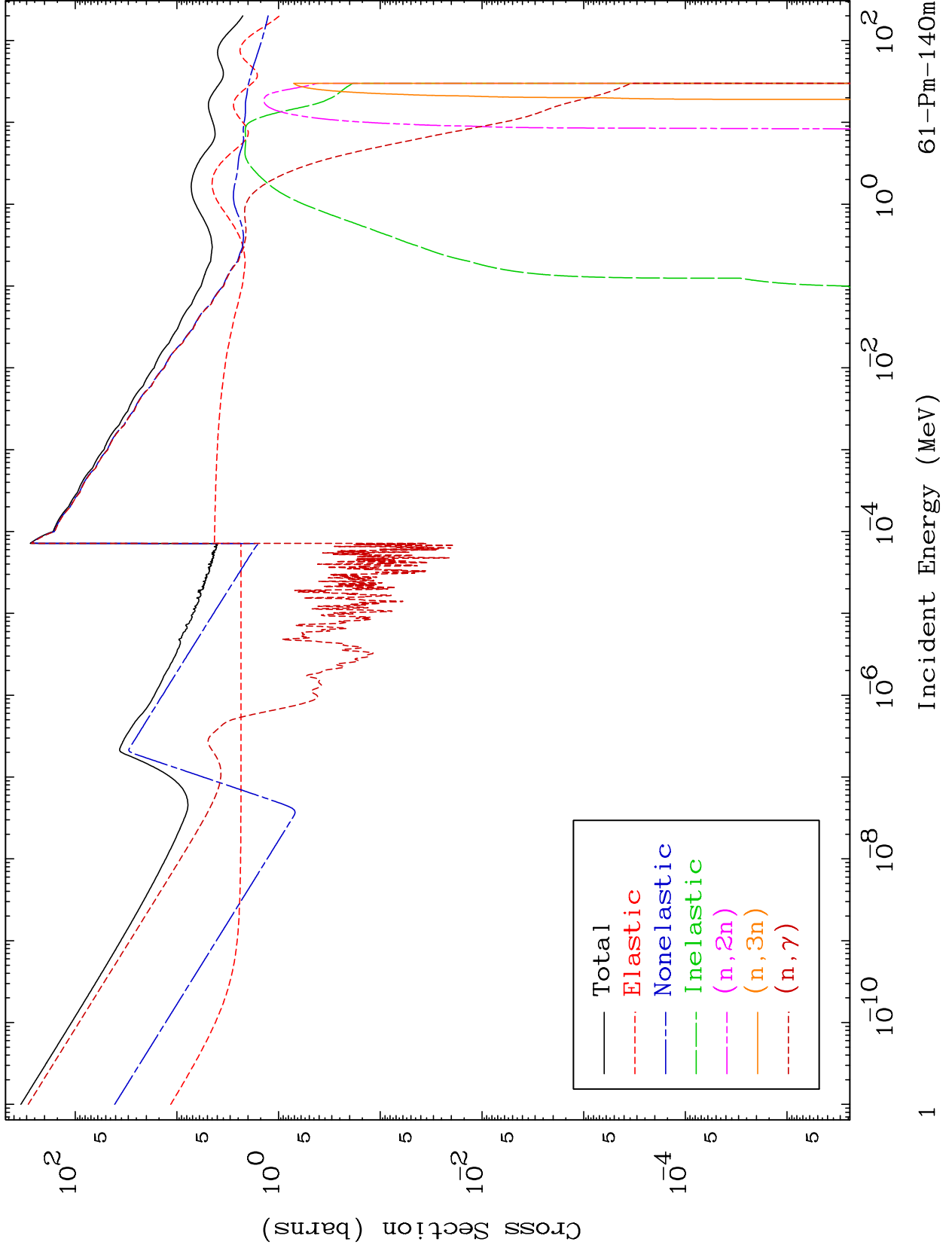
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6129

Neutron Major
293 Kelvin Cross Sections

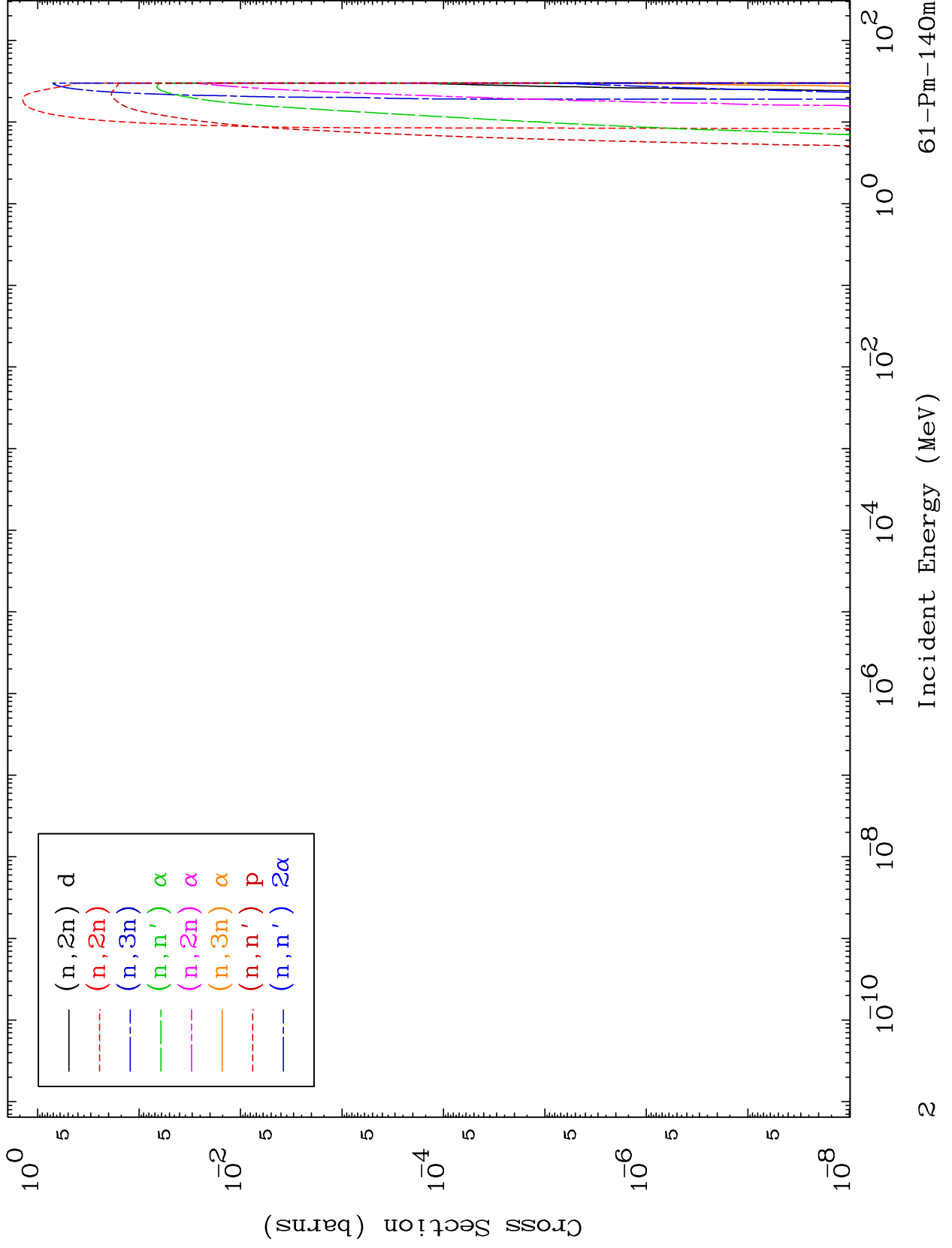
61-Pm-140m



MAT 6129

Neutron Absorption
293 Kelvin Cross Sections

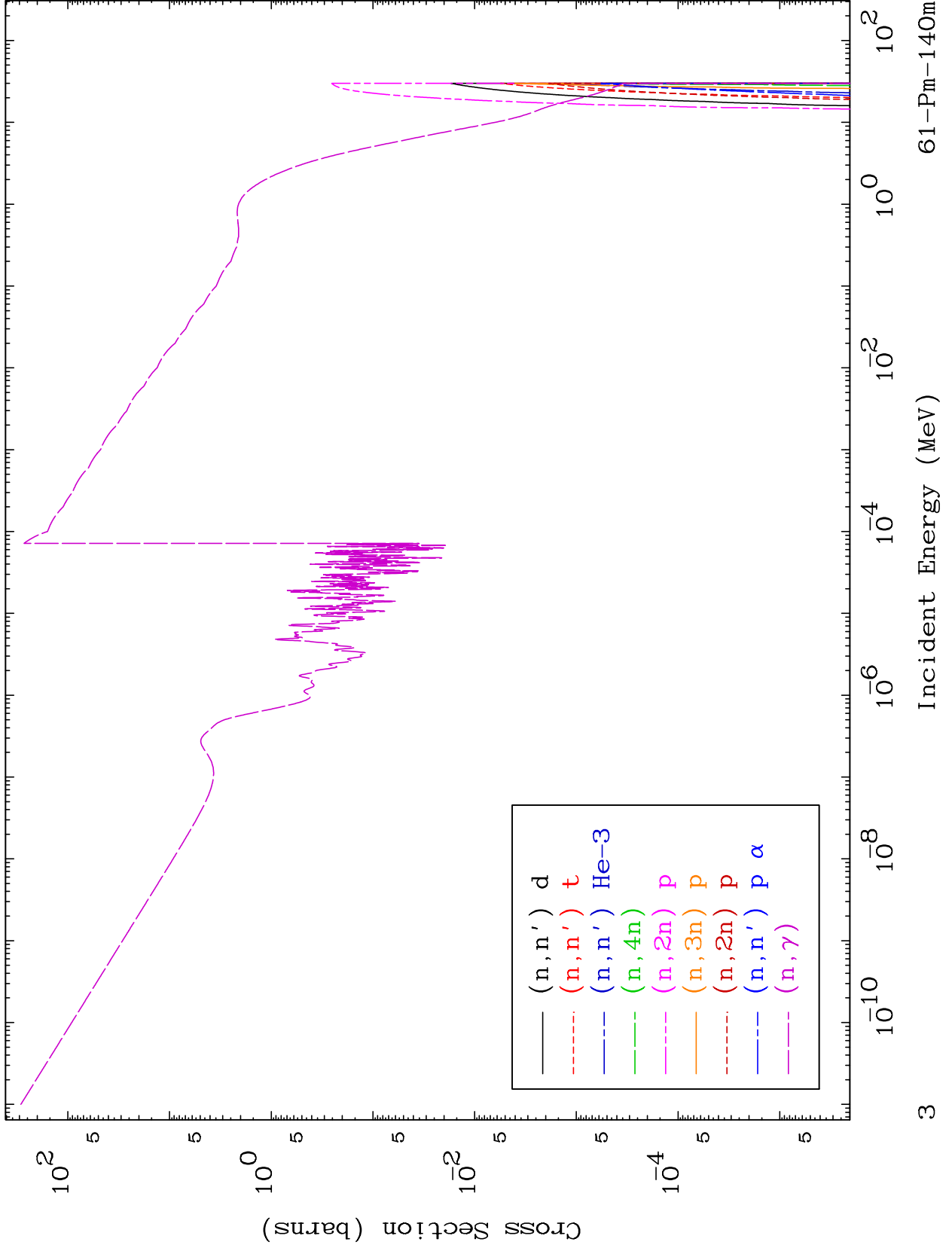
61-Pm-140m



MAT 6129

Neutron Absorption
293 Kelvin Cross Sections

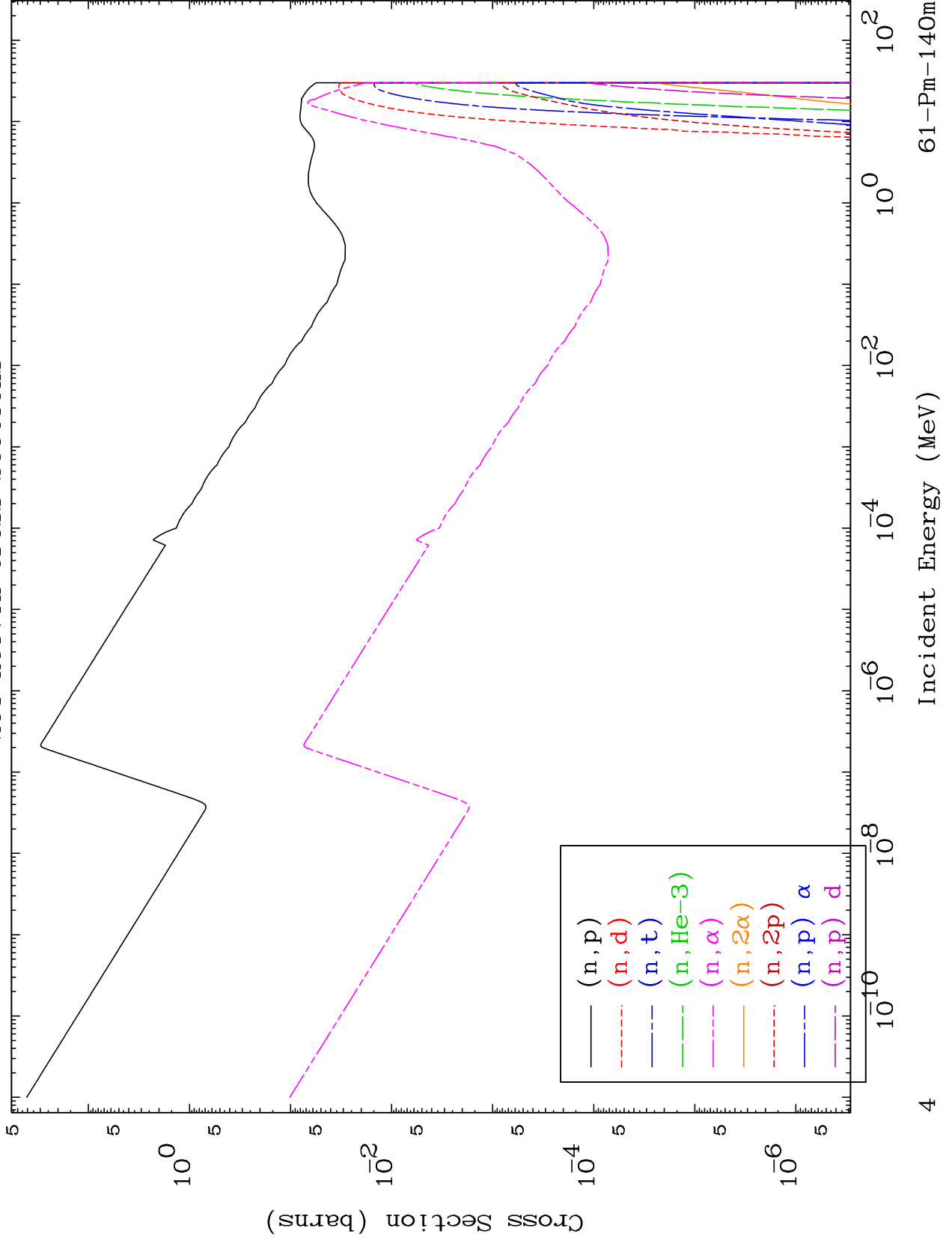
61-Pm-140m

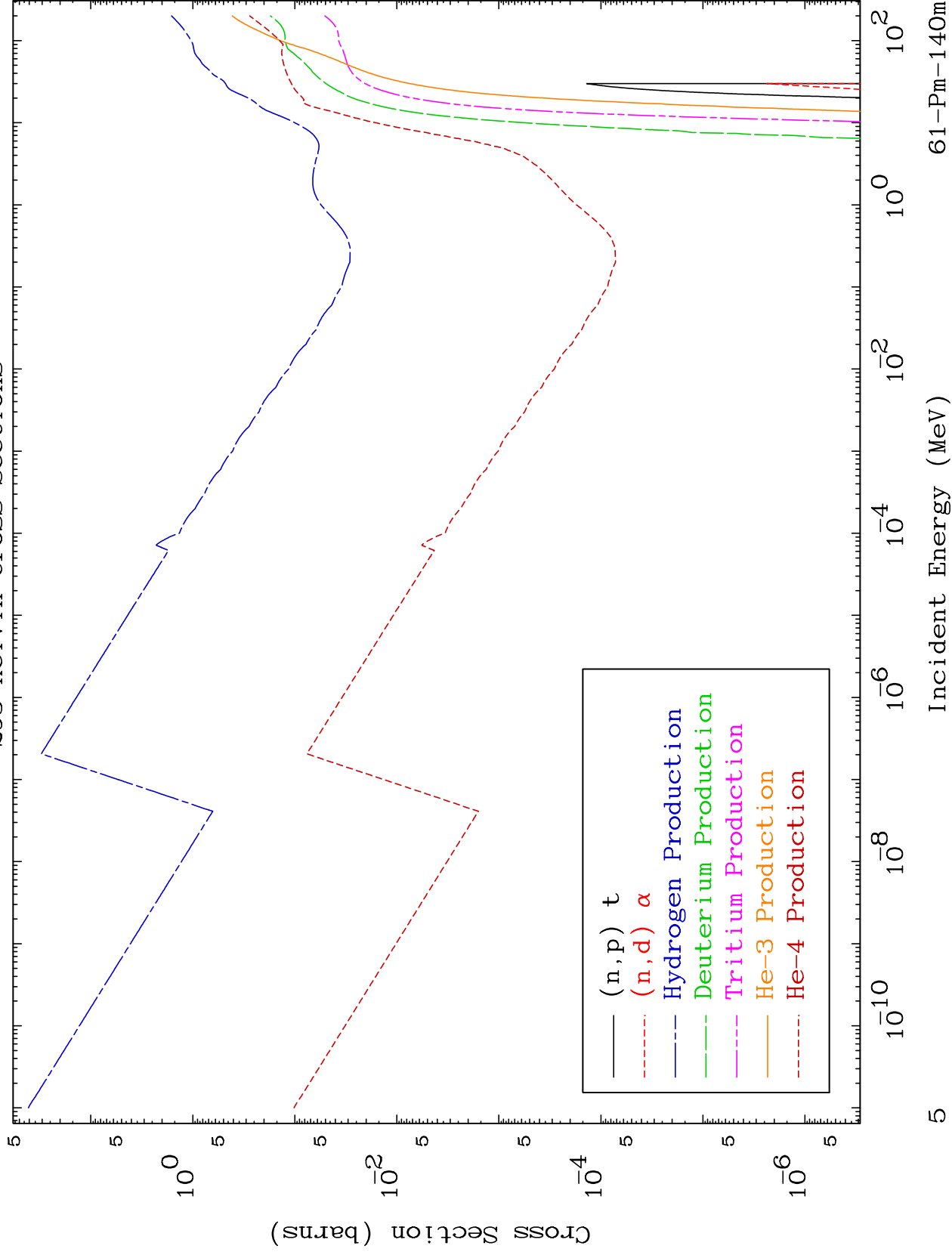


MAT 6129

Neutron Absorption
293 Kelvin Cross Sections

61-Pm-140m

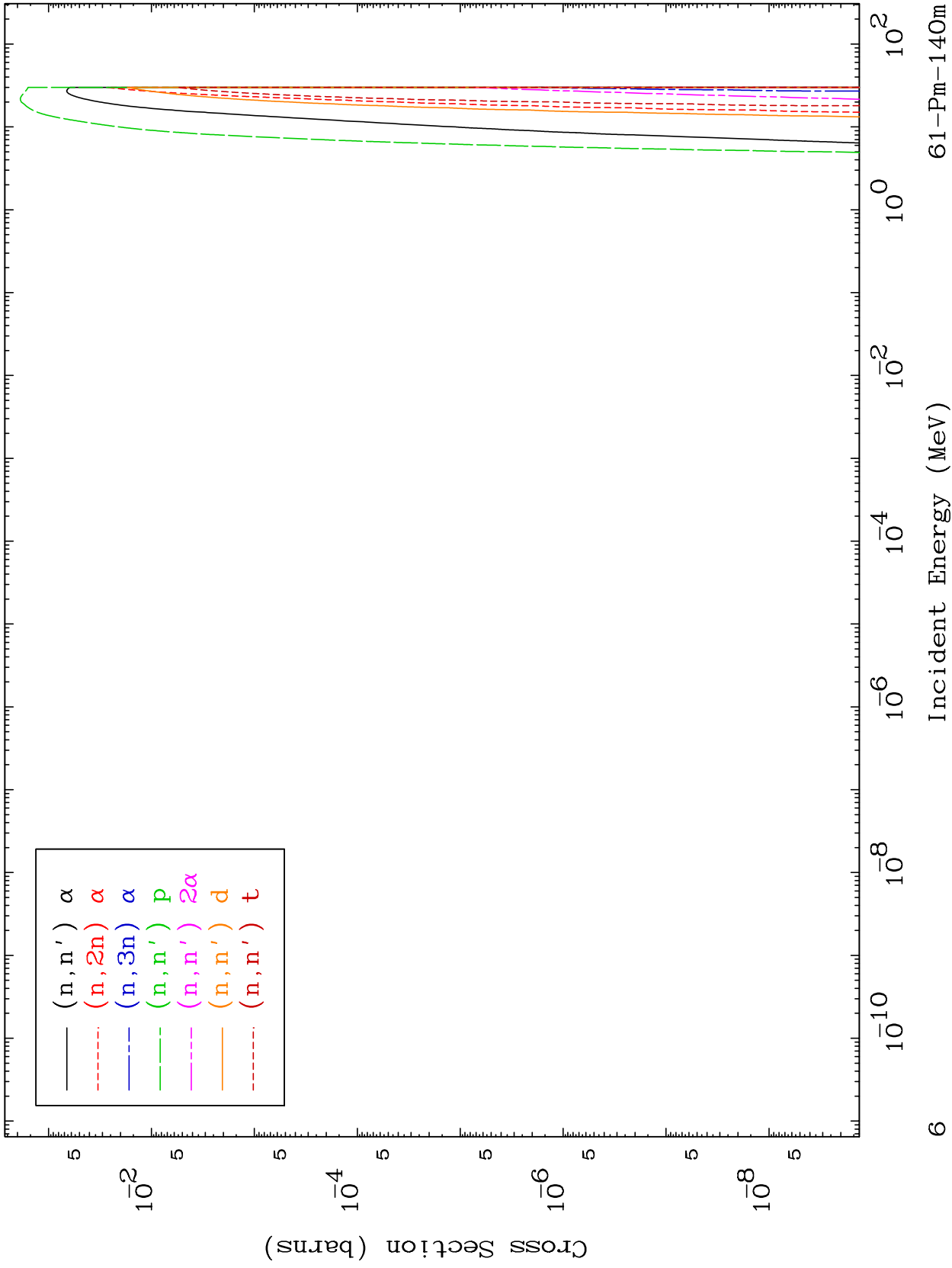




MAT 6129

Charged Particle
293 Kelvin Cross Sections

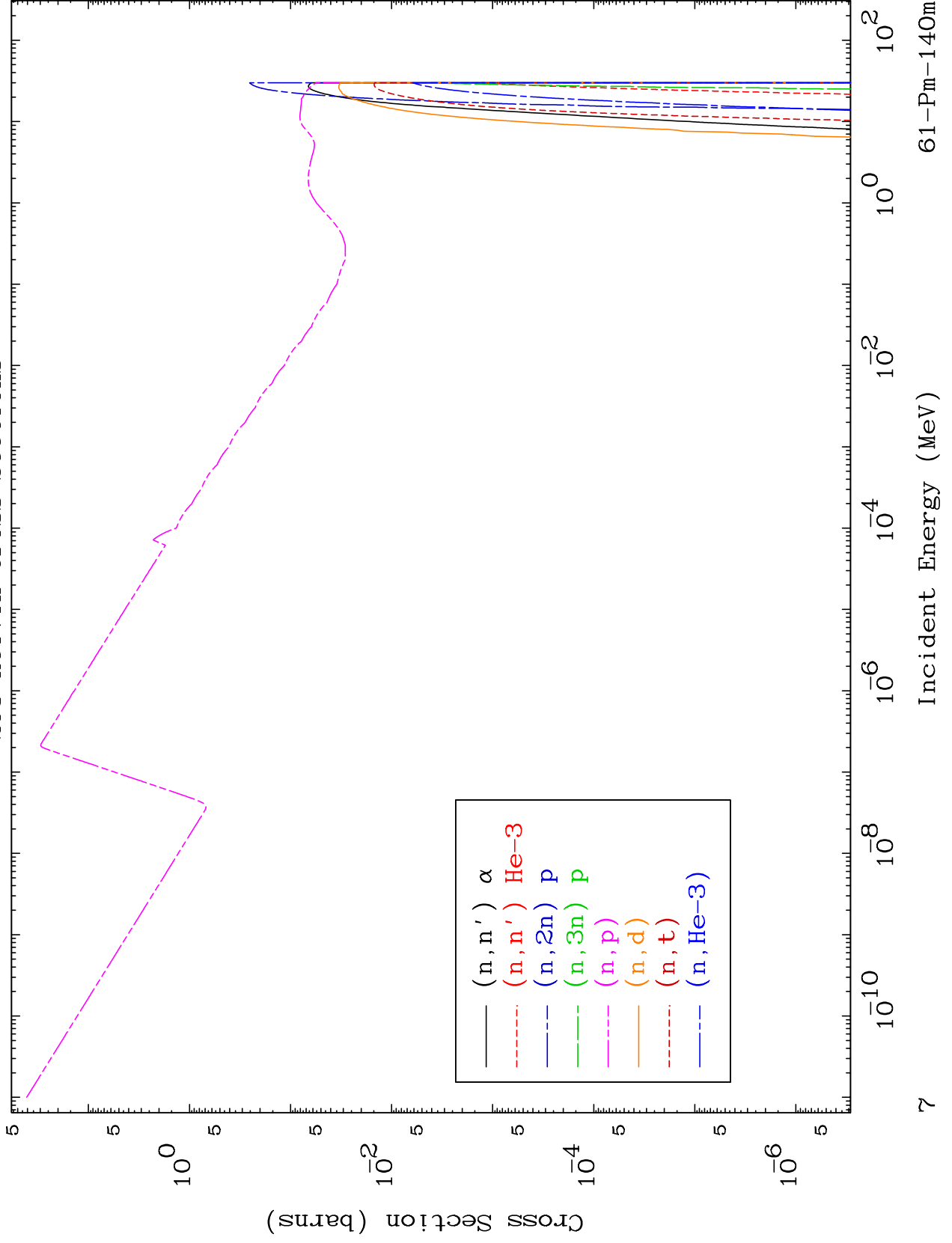
61-Pm-140m



MAT 6129

Charged Particle
293 Kelvin Cross Sections

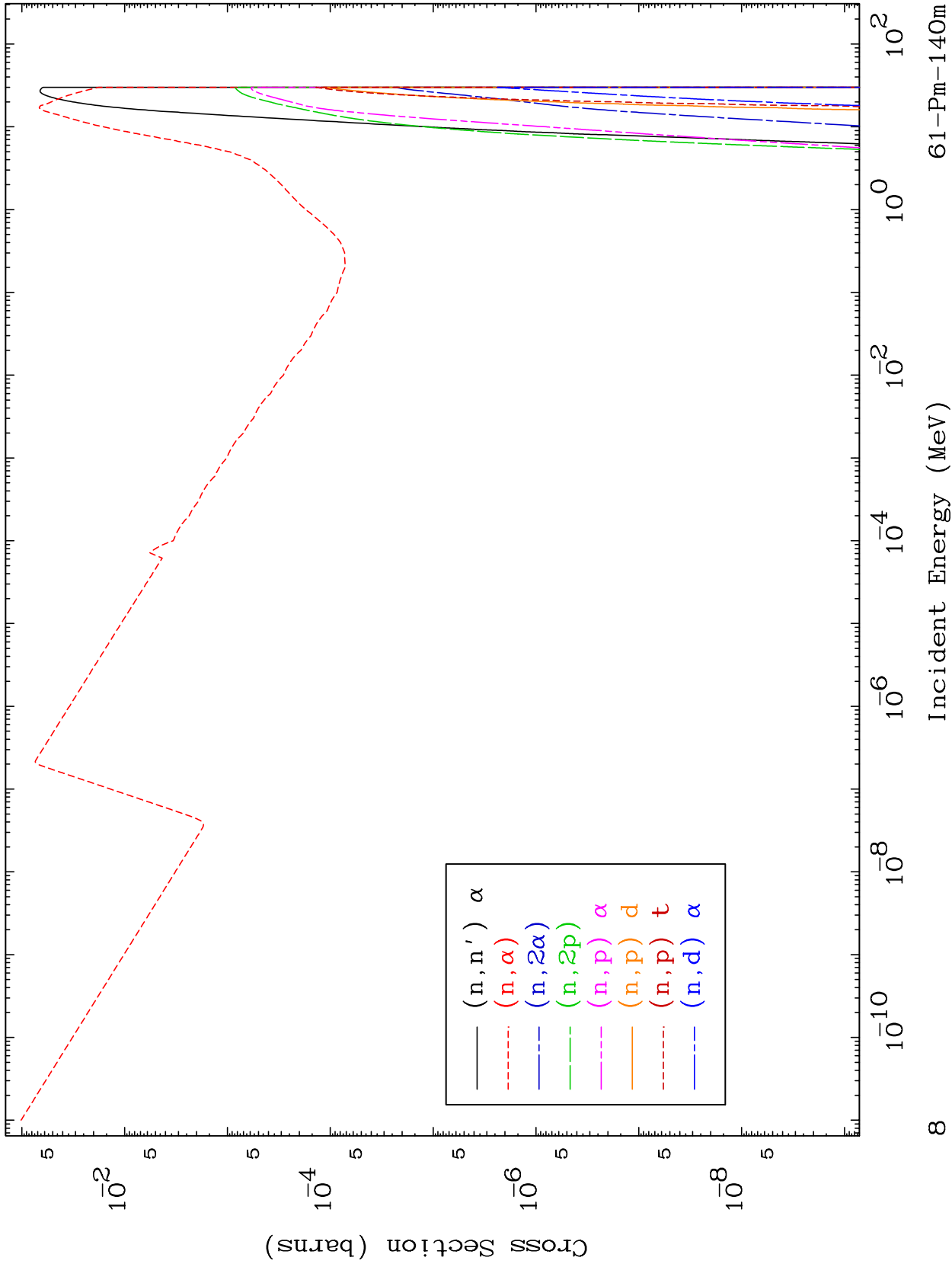
61-Pm-140m



MAT 6129

Charged Particle
293 Kelvin Cross Sections

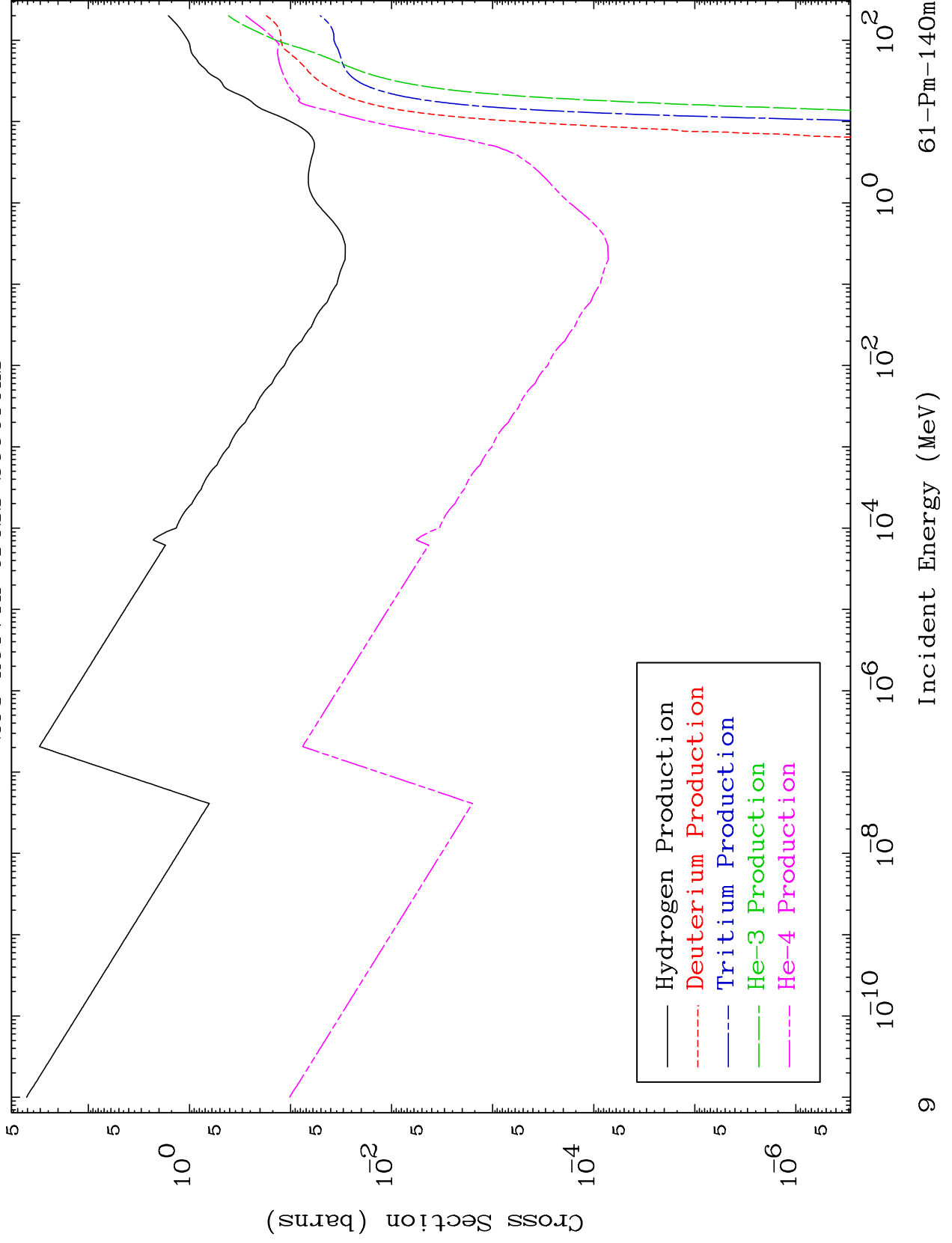
61-Pm-140m



MAT 6129

Particle Production
293 Kelvin Cross Sections

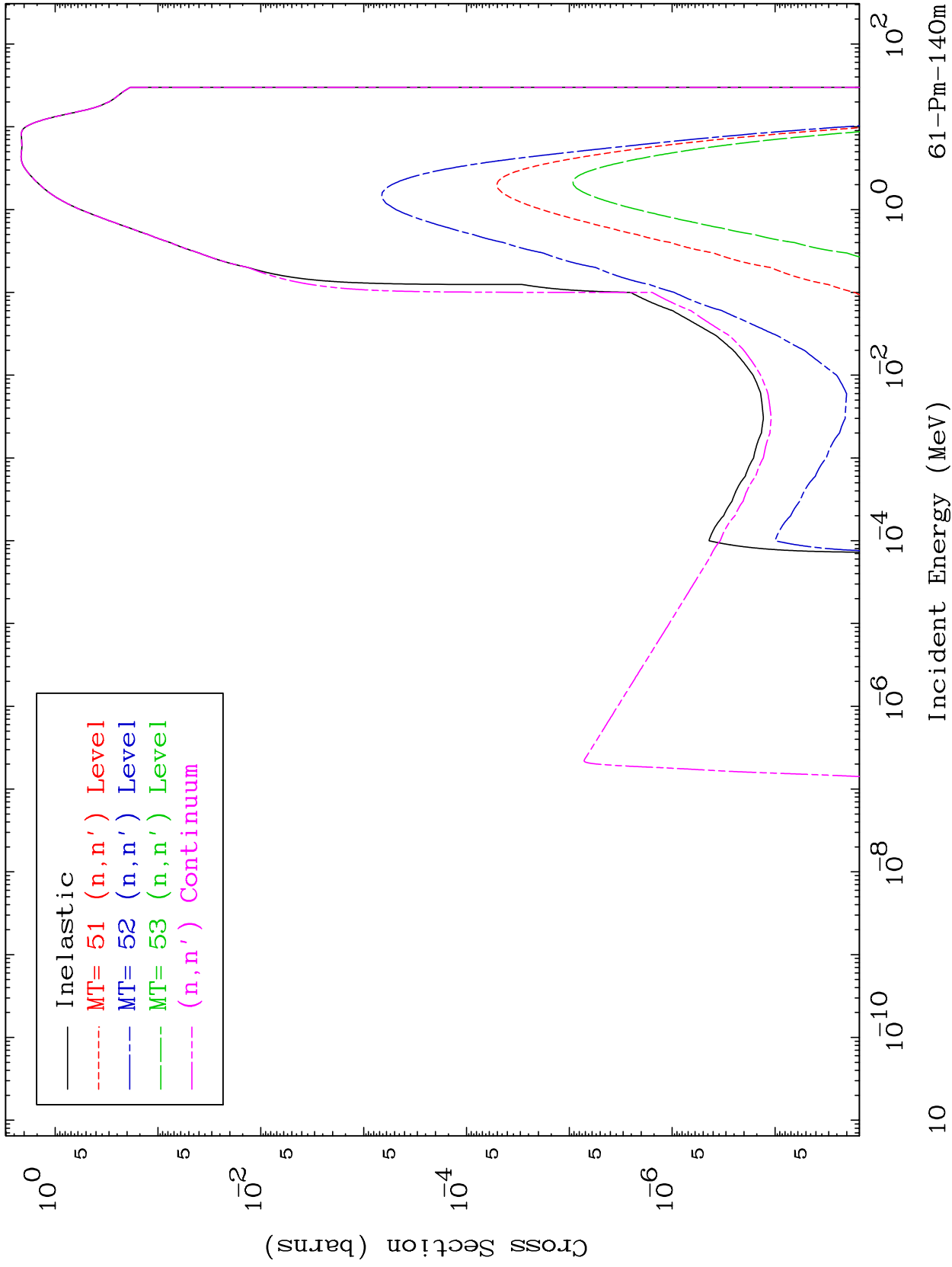
61-Pm-140m



MAT 6129

(n,n') Levels
293 Kelvin Cross Sections

61-Pm-140m

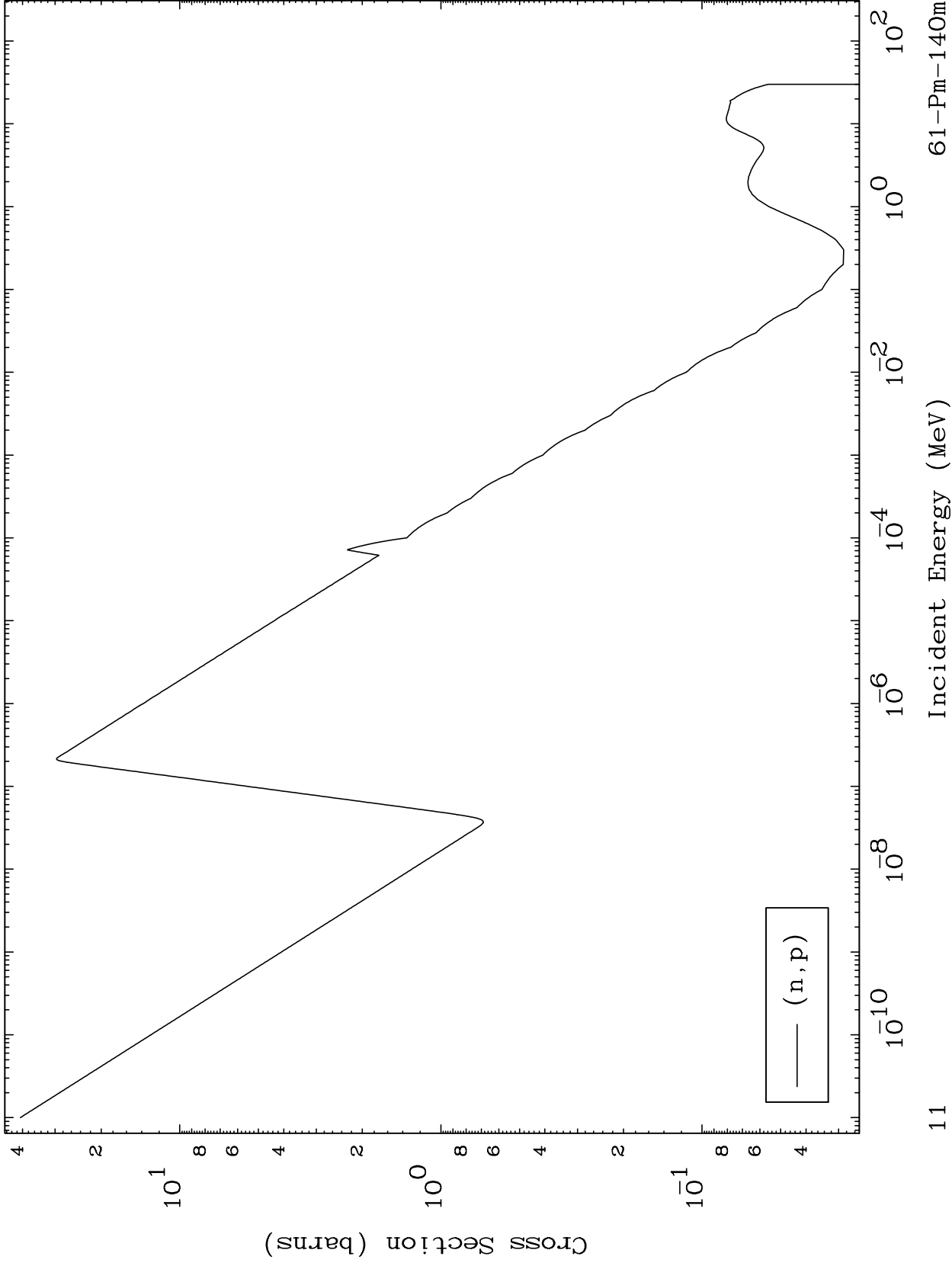


10

MAT 6129

(n,p) Levels
293 Kelvin Cross Sections

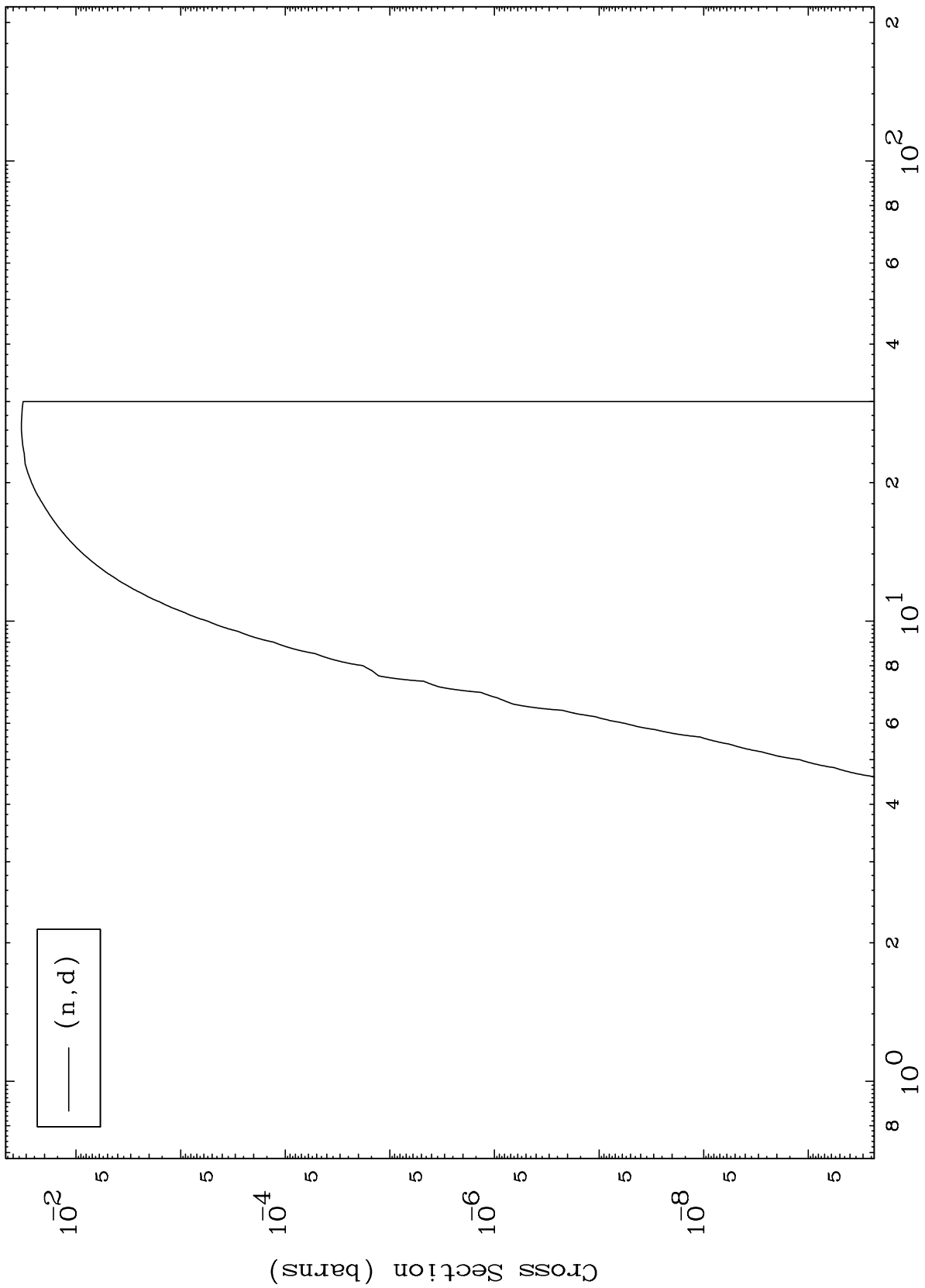
61-Pm-140m



MAT 6129

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-140m



12

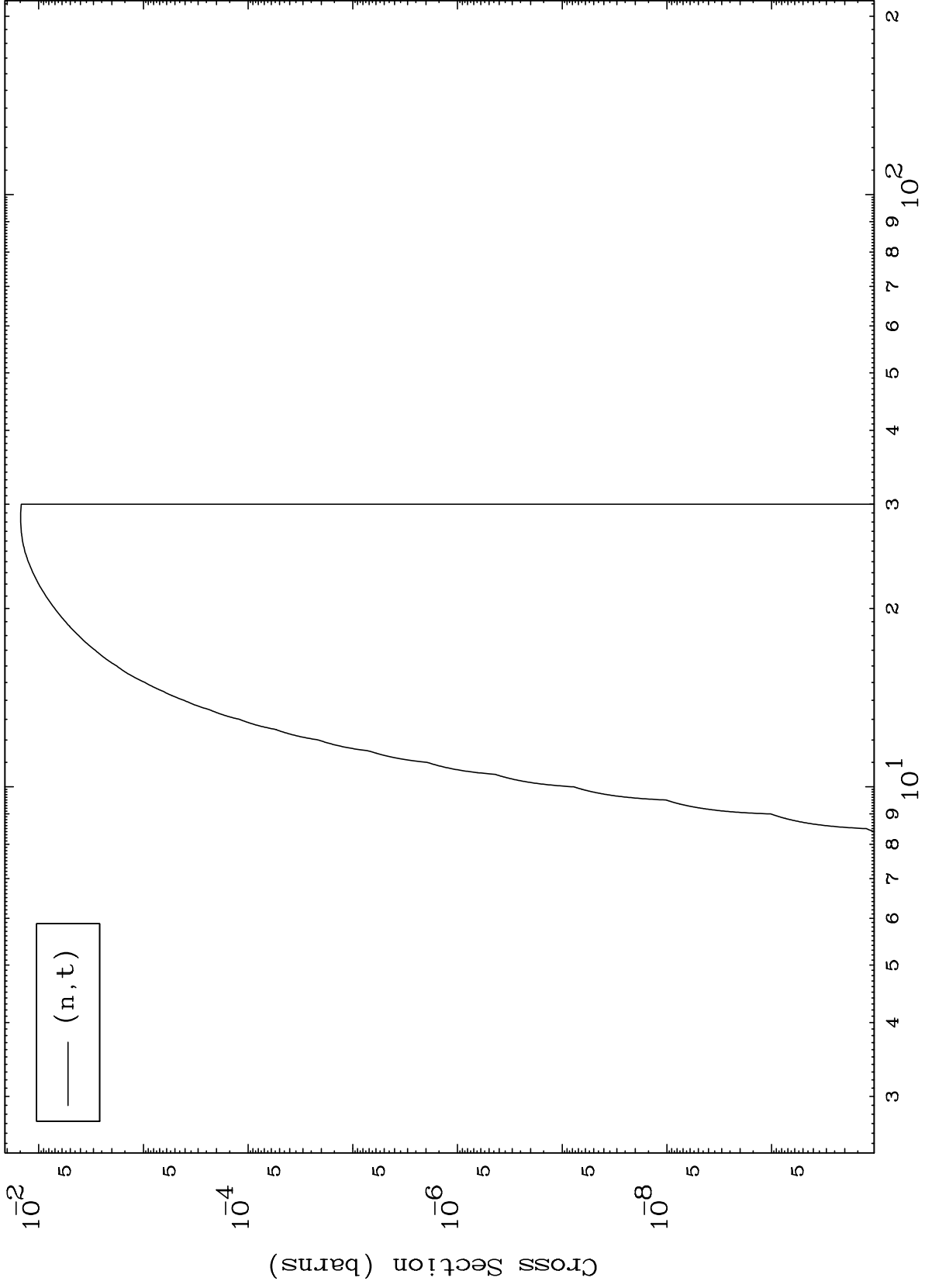
Incident Energy (MeV)

61-Pm-140m

MAT 6129

(n,t) Levels
293 Kelvin Cross Sections

61-Pm-140m



13

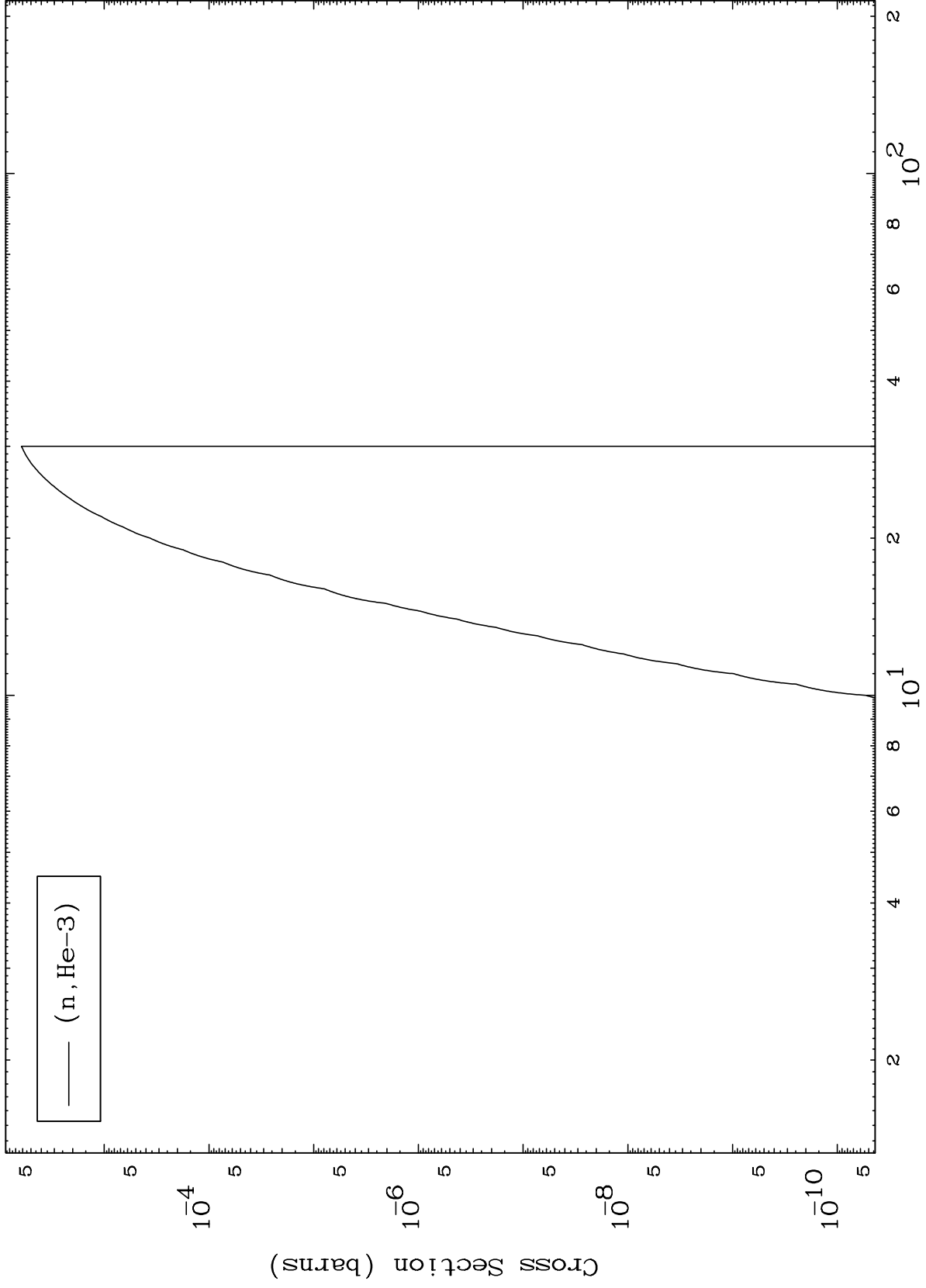
Incident Energy (MeV)

61-Pm-140m

MAT 6129

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-140m



14

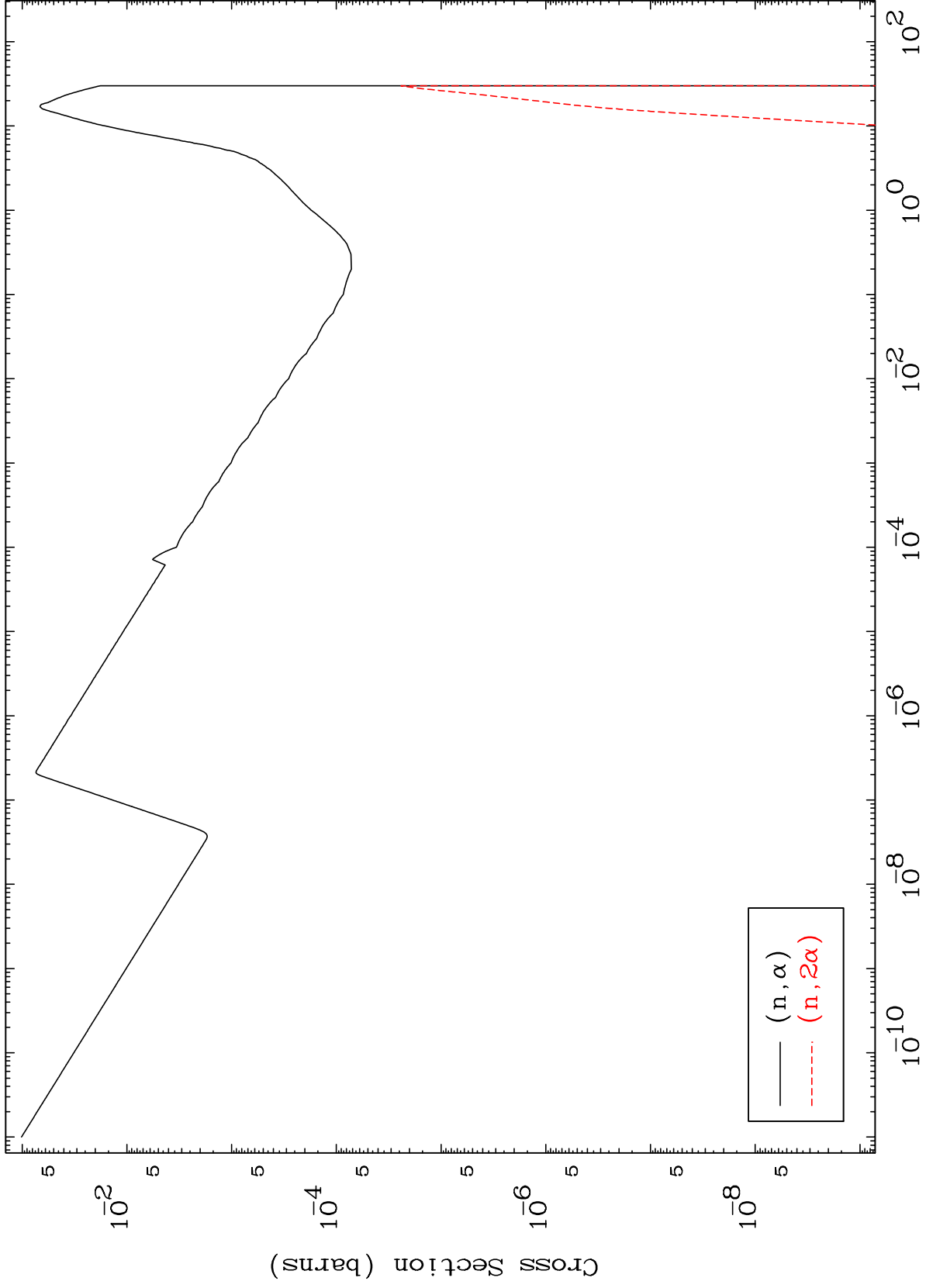
Incident Energy (MeV)

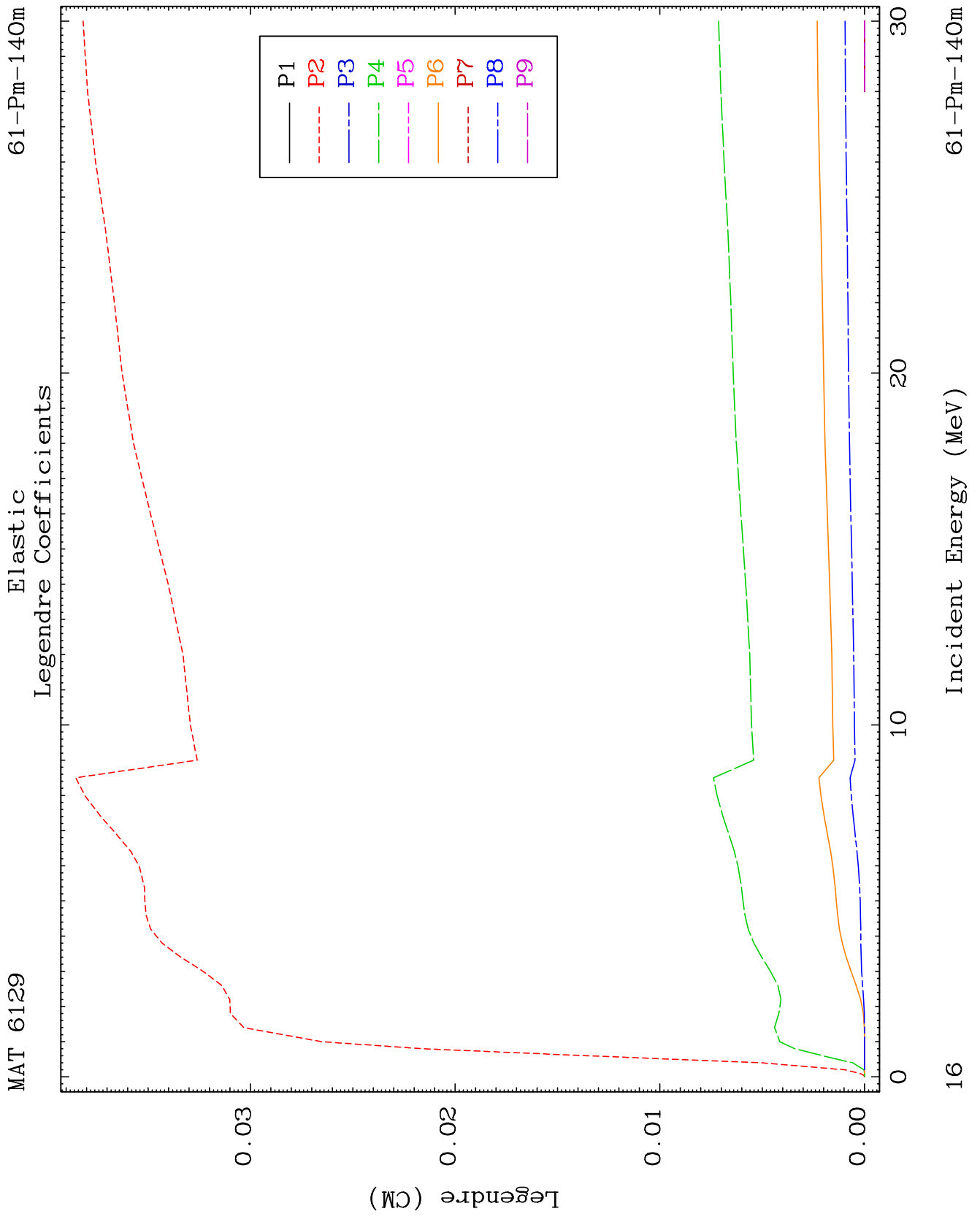
61-Pm-140m

MAT 6129

(n, α) Levels
293 Kelvin Cross Sections

61-Pm-140m

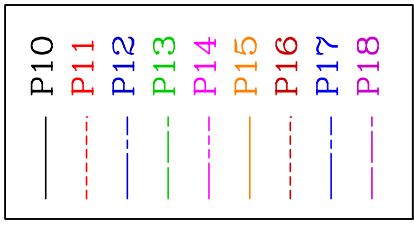




MAT 6129

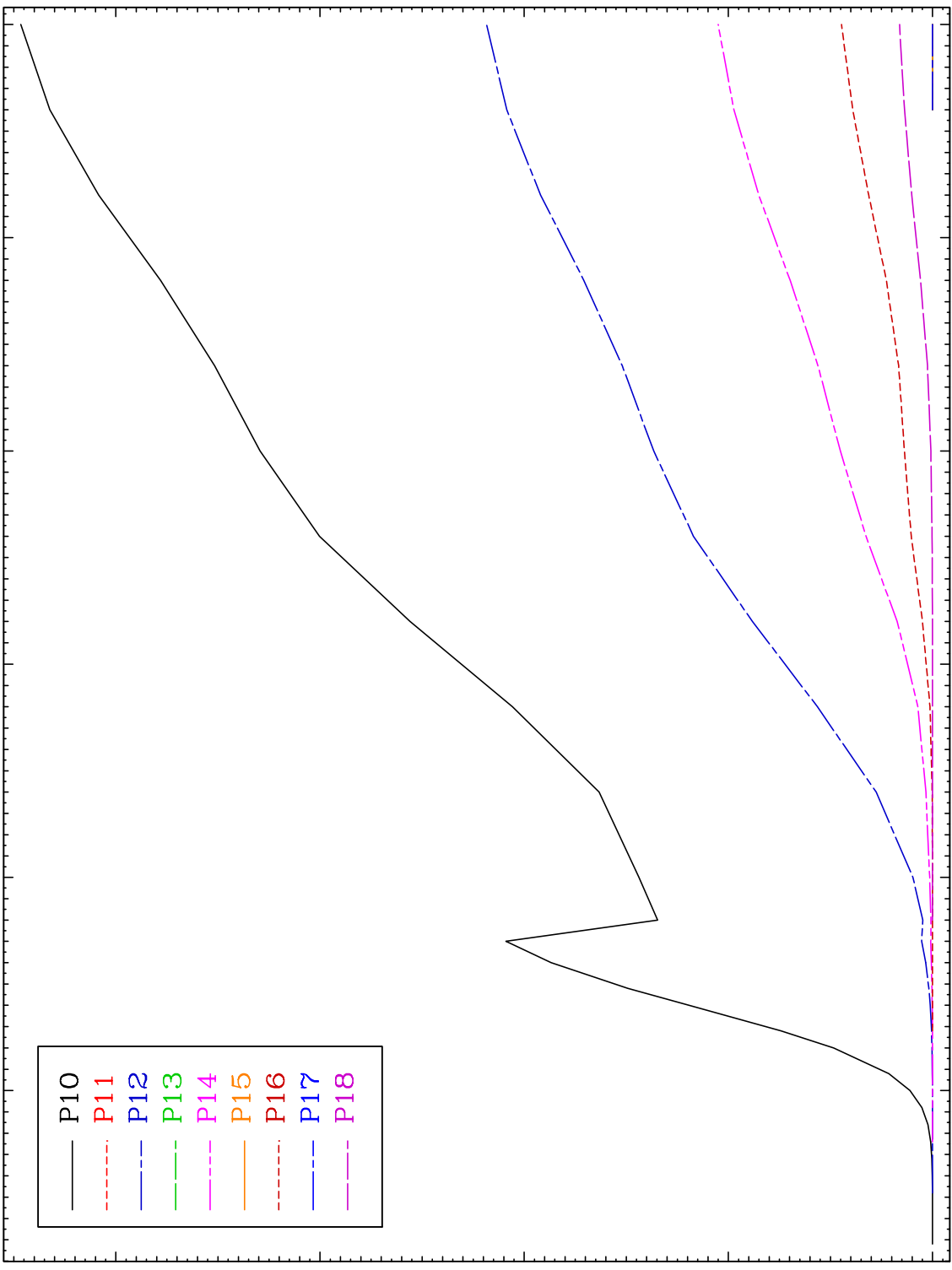
Elastic Legendre Coefficients

61-Pm-140m



$\times 10^{-4}$

Legendre (CM)



30

25

20

15

10

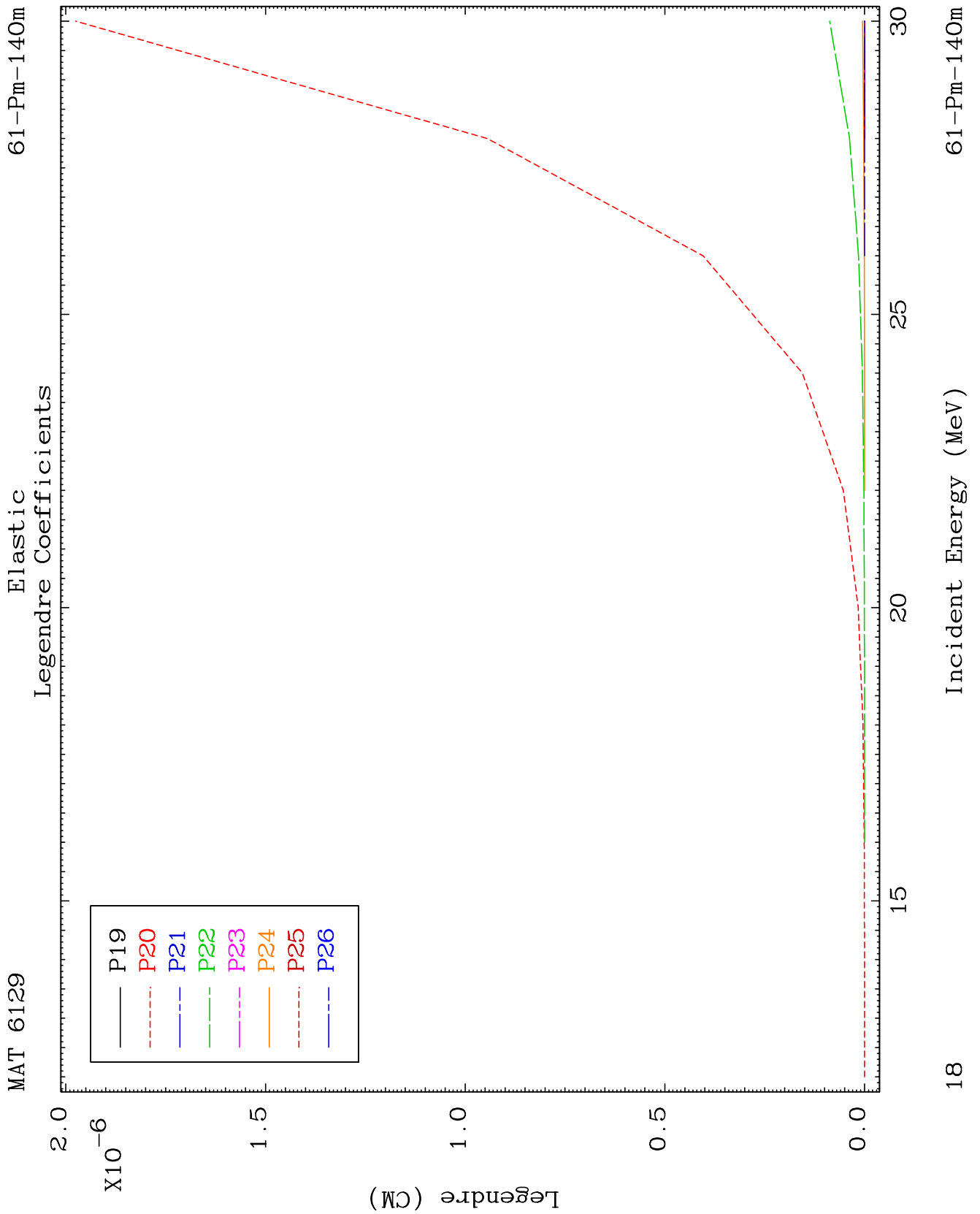
5

0

17

Incident Energy (MeV)

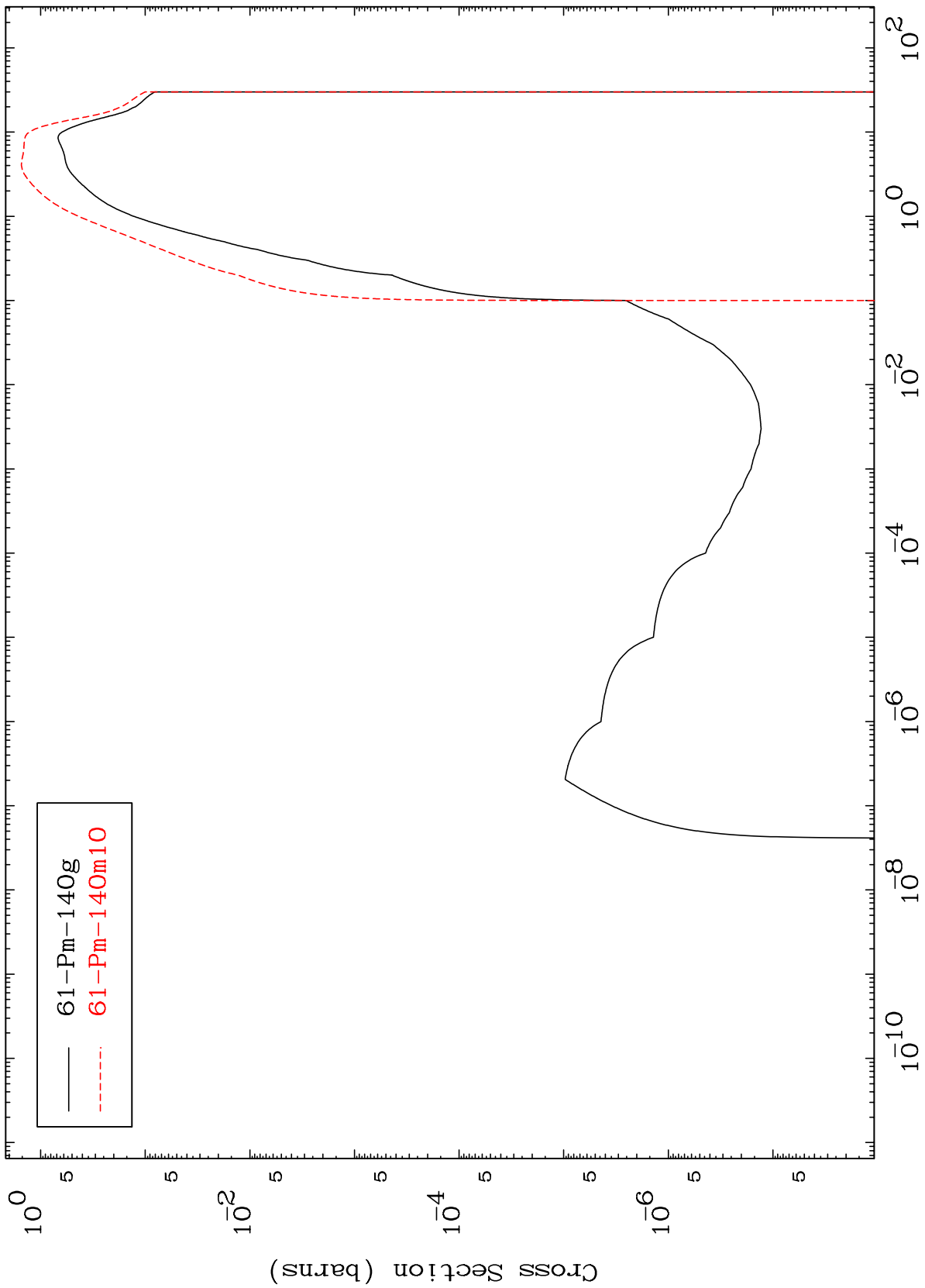
61-Pm-140m

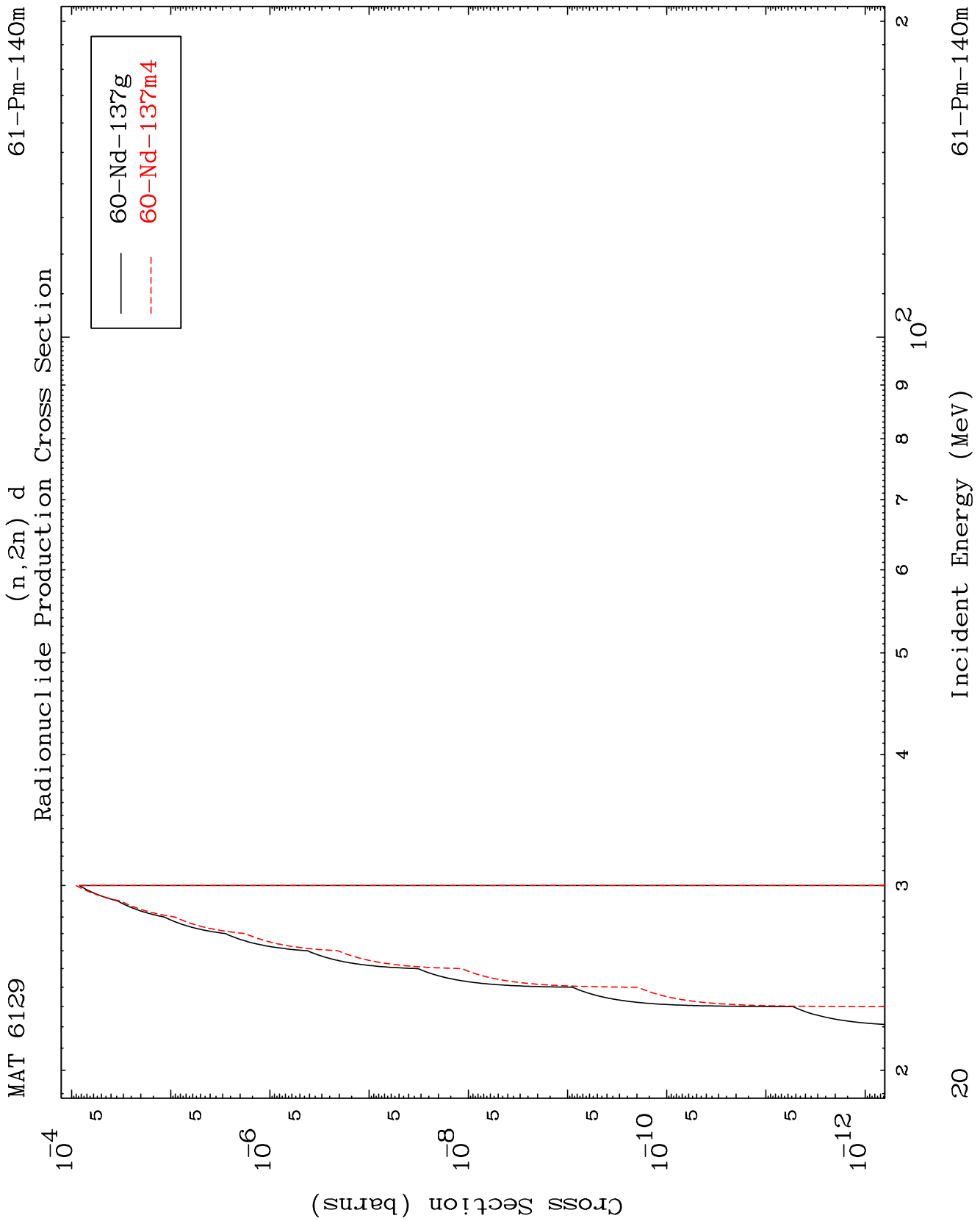


MAT 6129

61-Pm-140m

Inelastic
Radionuclide Production Cross Section



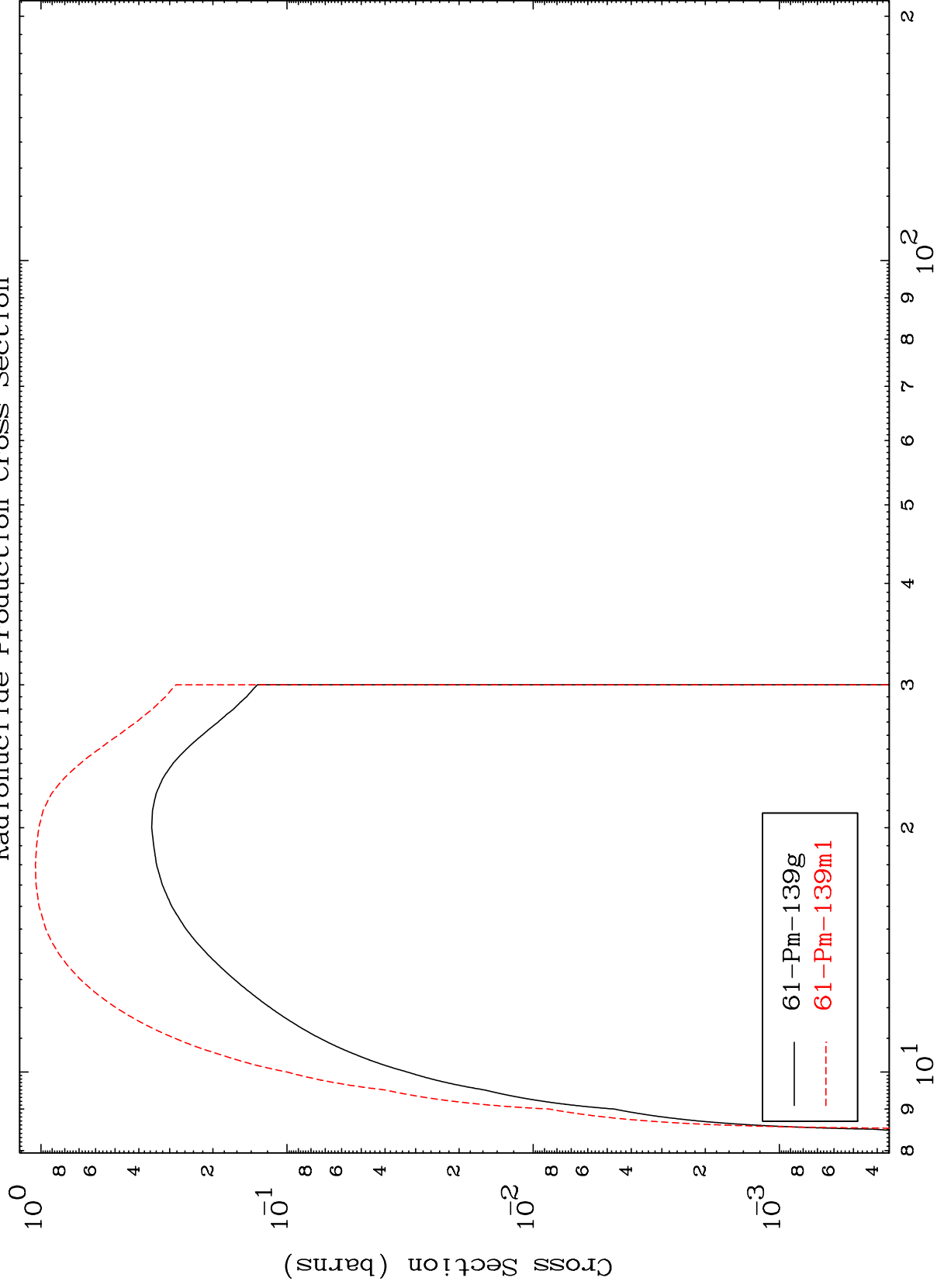


MAT 6129

(n,2n)

61-Pm-140m

Radionuclide Production Cross Section



21

Incident Energy (MeV)

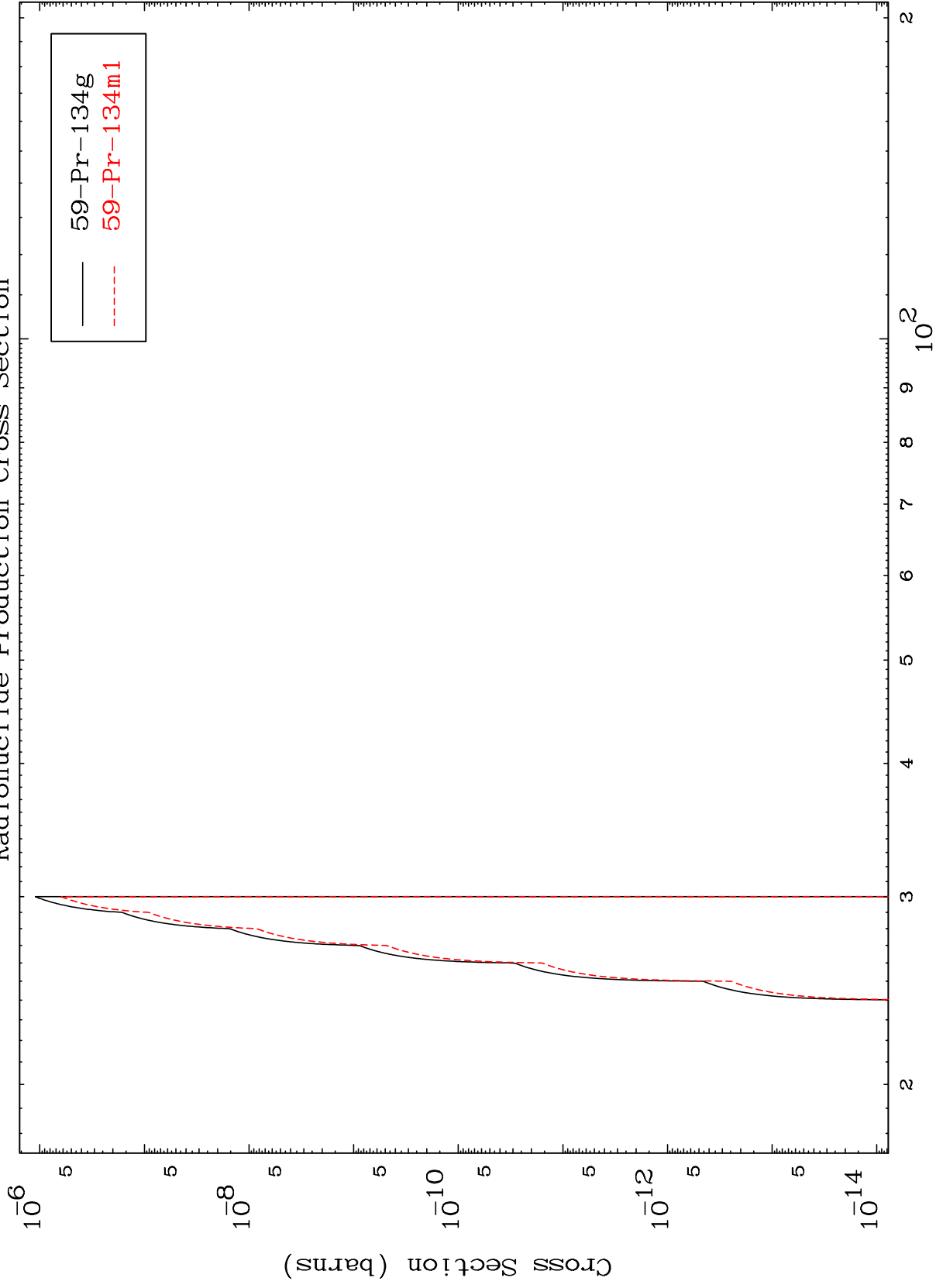
61-Pm-140m

MAT 6129

(n,3n) α

61-Pm-140m

Radionuclide Production Cross Section



22

Incident Energy (MeV)

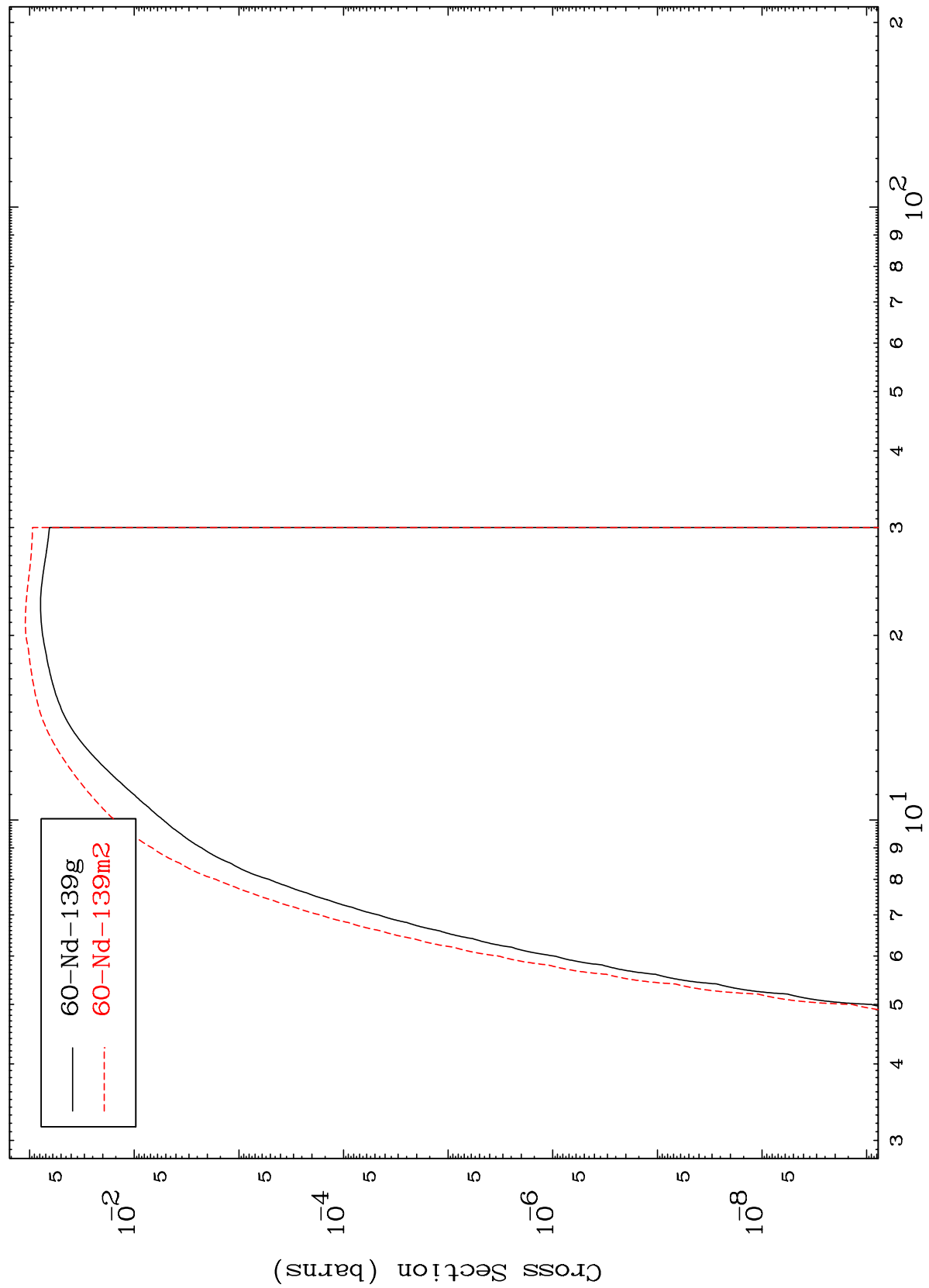
61-Pm-140m

MAT 6129

(n,n') p

61-Pm-140m

Radionuclide Production Cross Section



Incident Energy (MeV)

61-Pm-140m

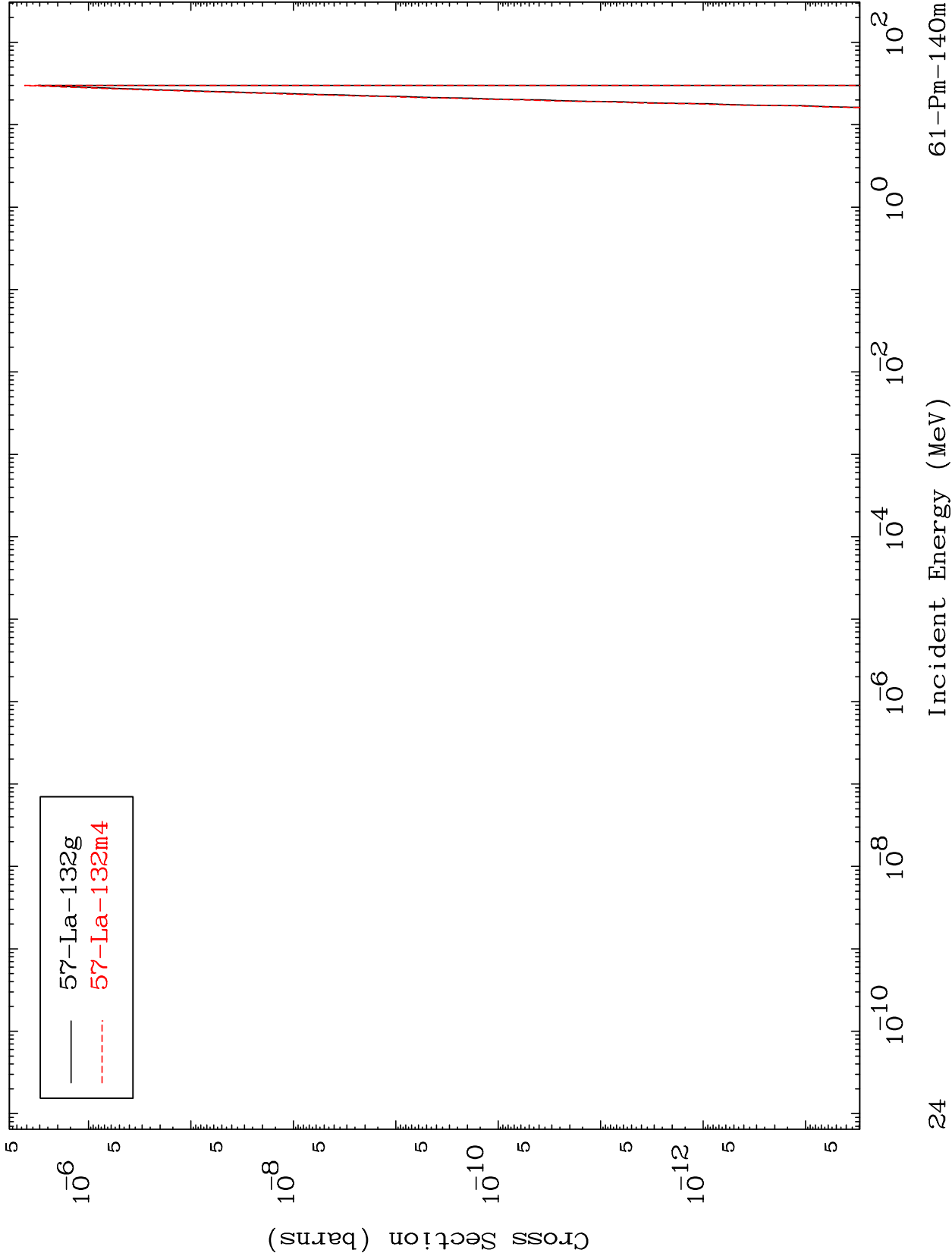
23

MAT 6129

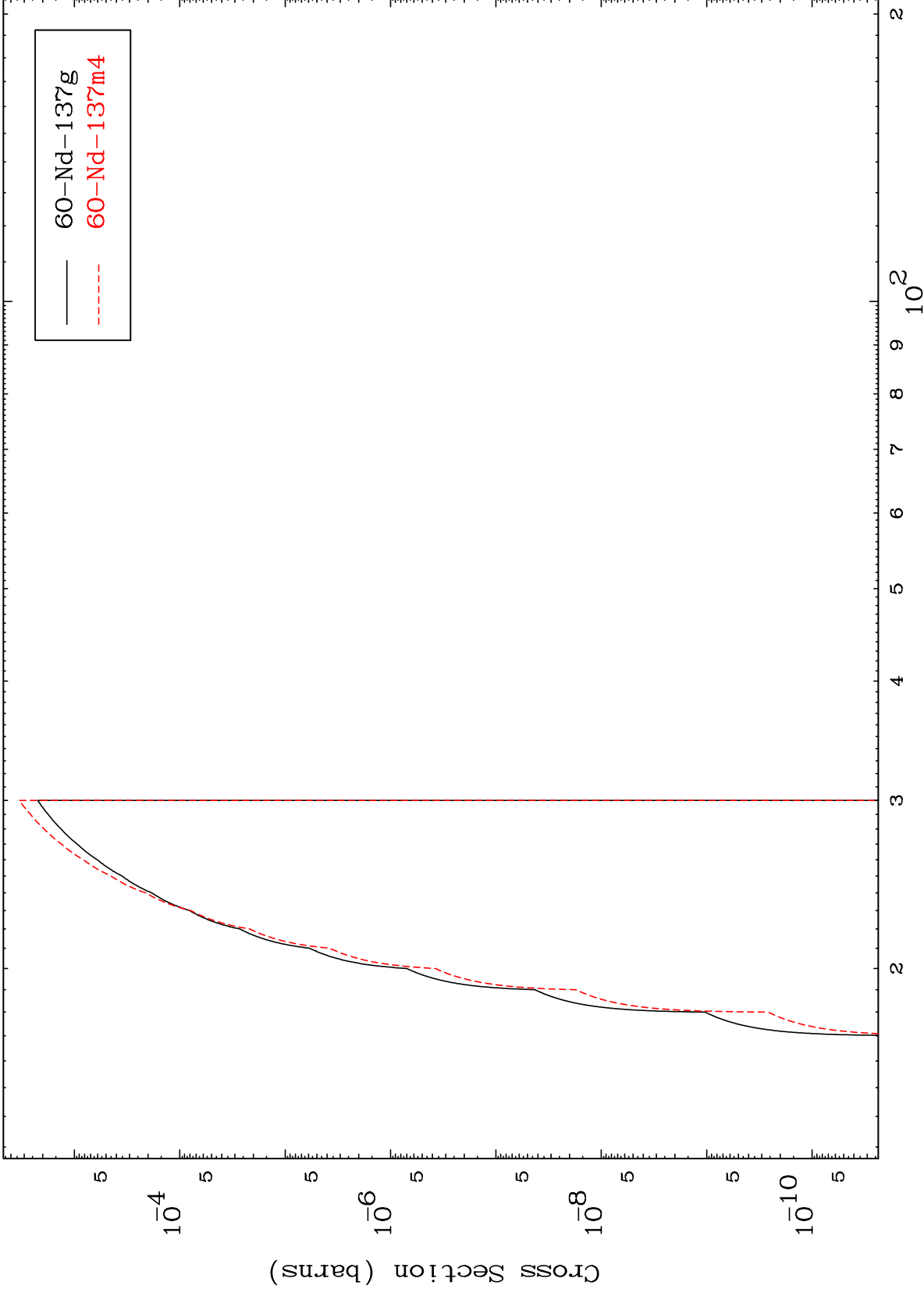
(n,n') 2 α

61-Pm-140m

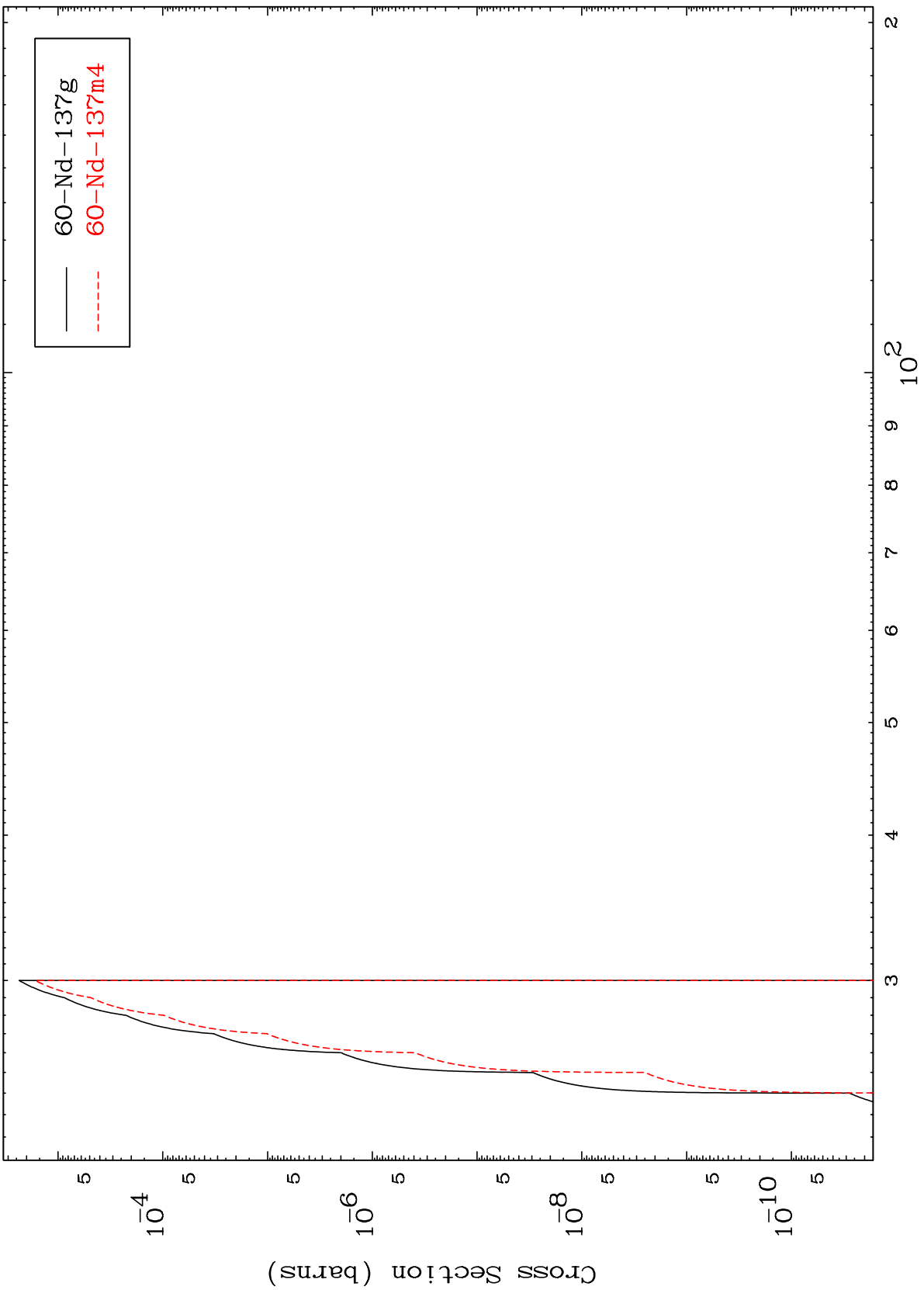
Radionuclide Production Cross Section



Radionuclide Production Cross Section



Radionuclide Production Cross Section



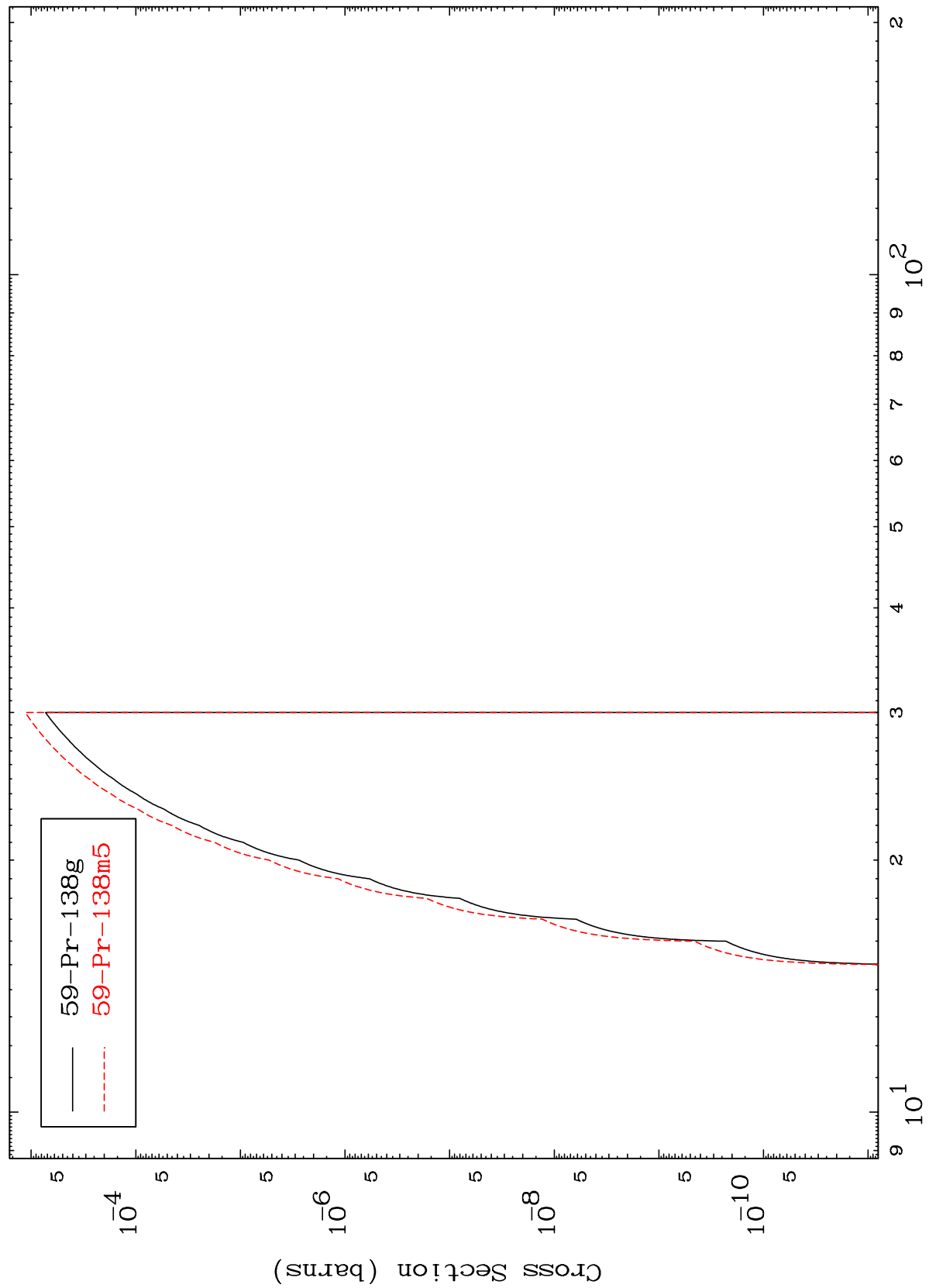
60-Nd-137g
60-Nd-137m4

MAT 6129

(n,2n) p

61-Pm-140m

Radionuclide Production Cross Section



59-Pr-138g
59-Pr-138m5

27

Incident Energy (MeV)

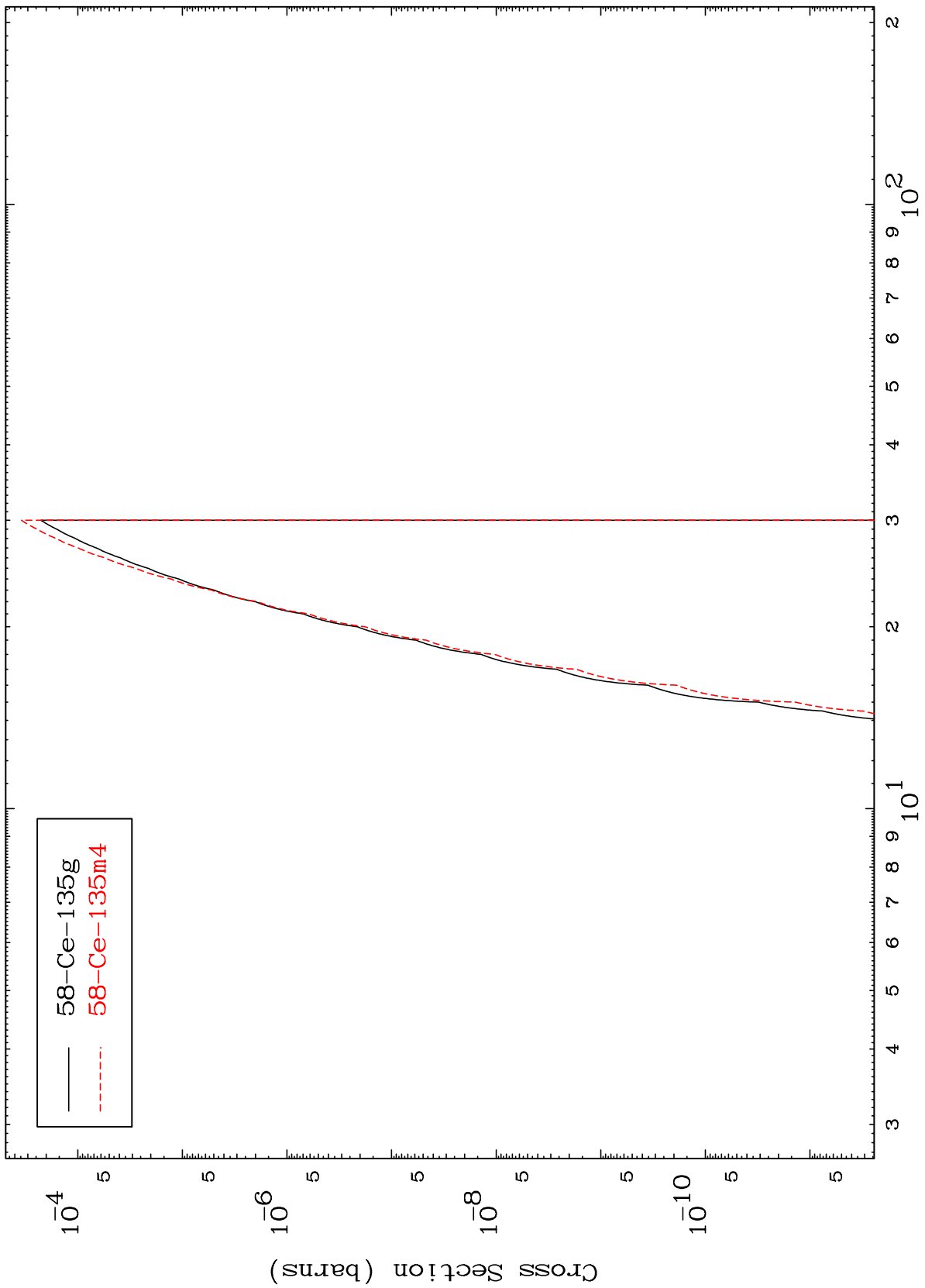
61-Pm-140m

MAT 6129

(n,n') p α

61-Pm-140m

Radionuclide Production Cross Section



28

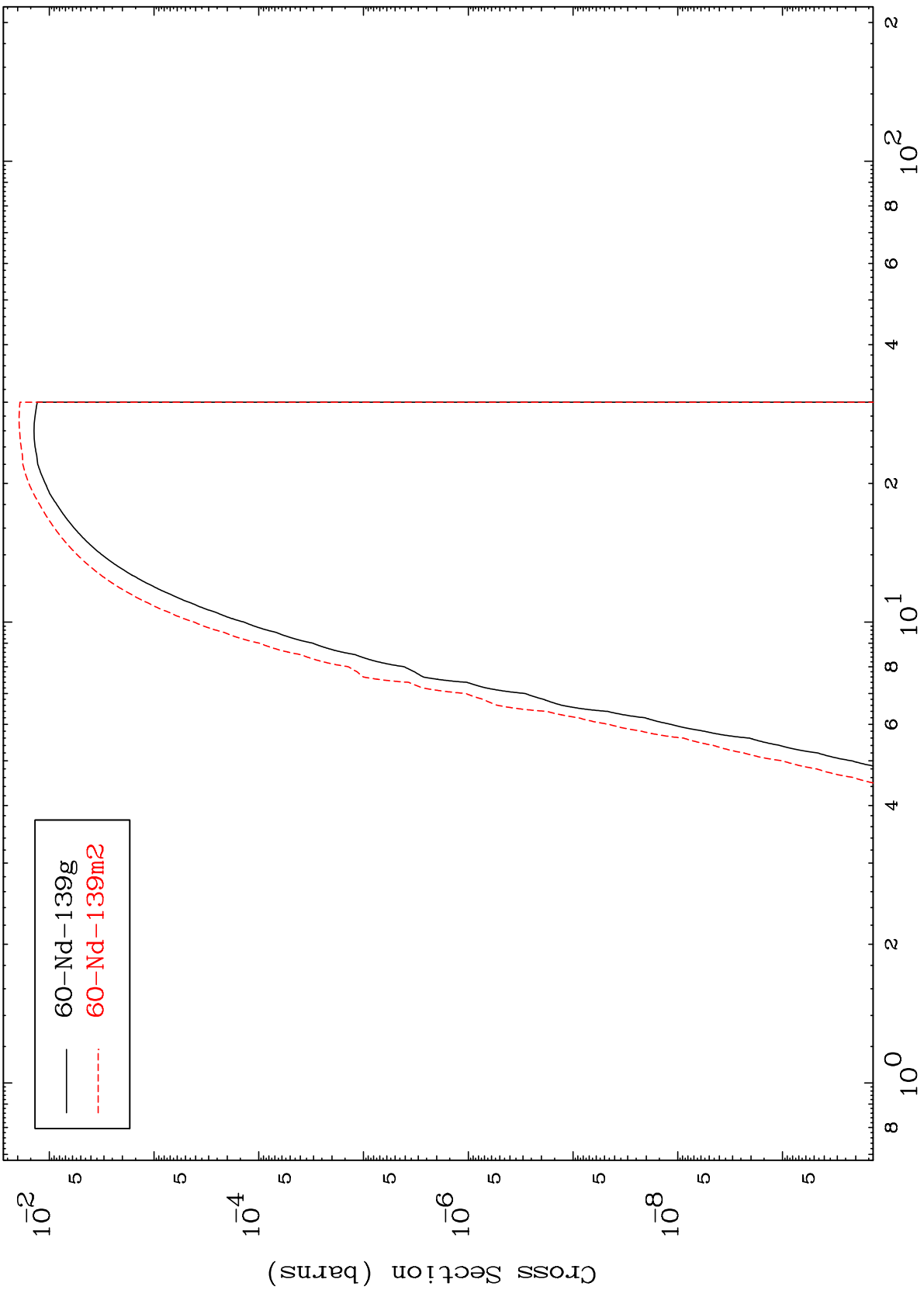
Incident Energy (MeV)

61-Pm-140m

MAT 6129

61-Pm-140m

(n,d)
Radionuclide Production Cross Section



29

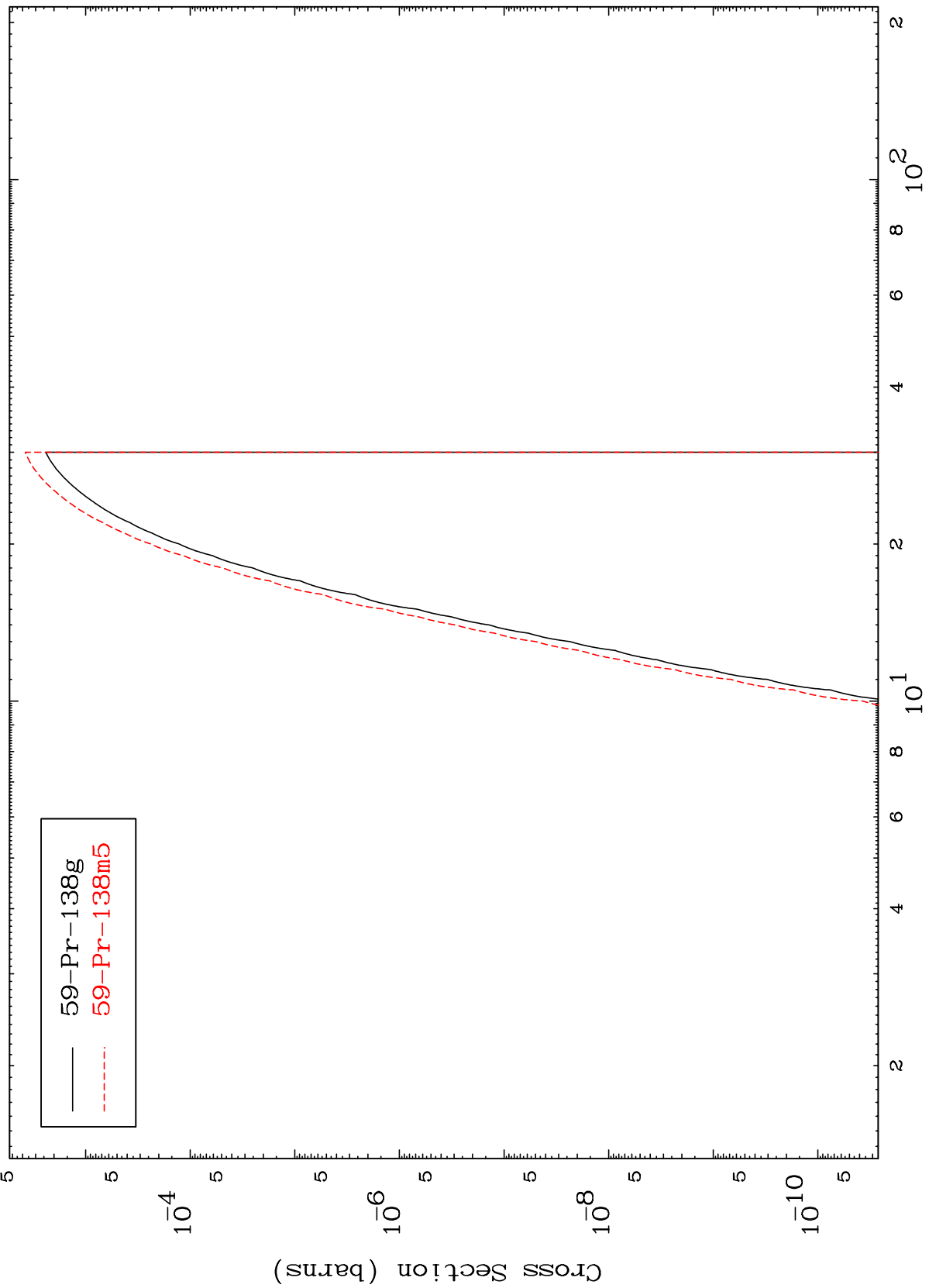
Incident Energy (MeV)

61-Pm-140m

MAT 6129

61-Pm-140m

(n,He-3)
Radionuclide Production Cross Section

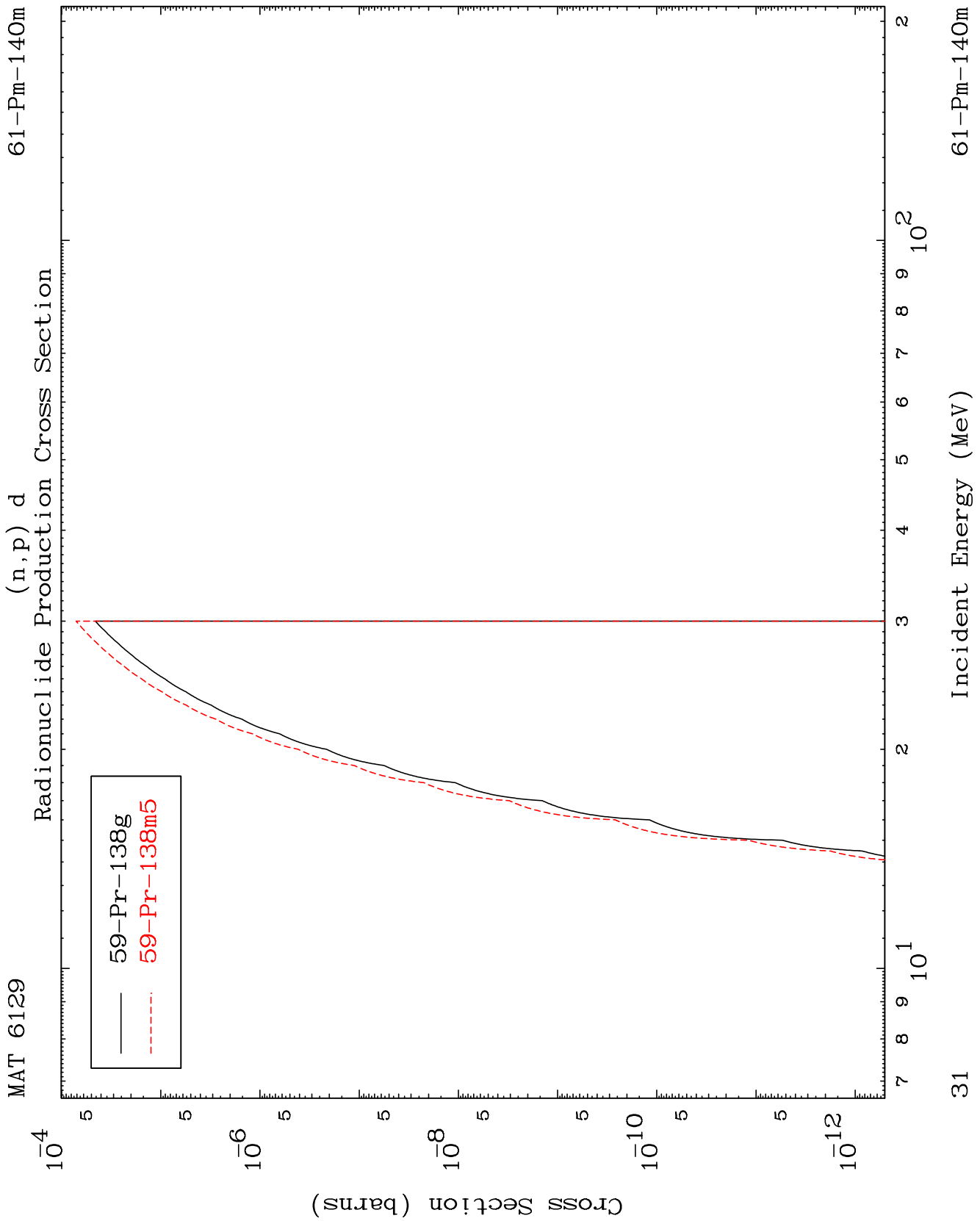


— 59-Pr-138g
- - - 59-Pr-138m5

61-Pm-140m

Incident Energy (MeV)

30

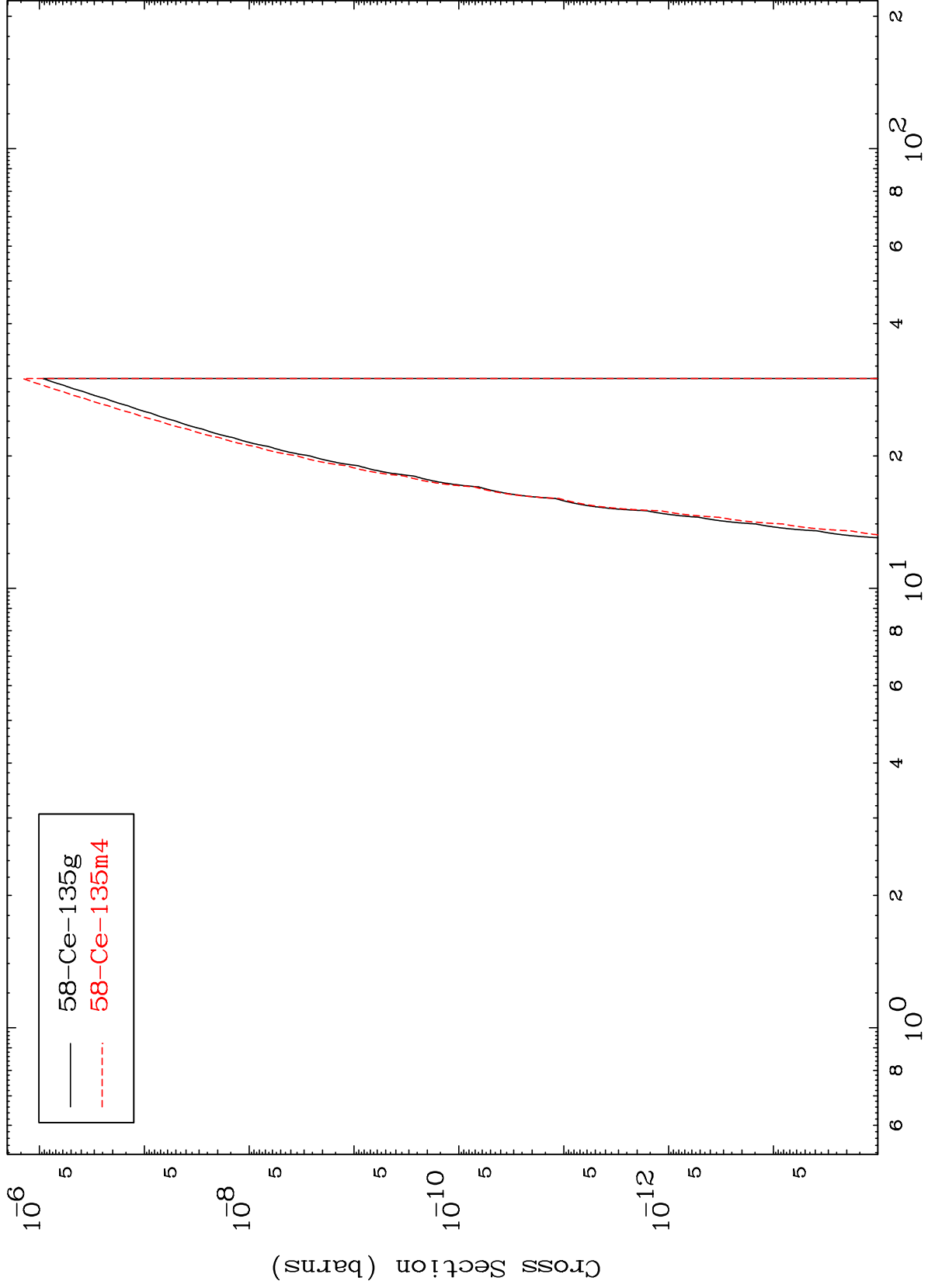


MAT 6129

(n,d) α

61-Pm-140m

Radionuclide Production Cross Section



32

Incident Energy (MeV)

61-Pm-140m