

Program EVALPLOT
(Version 2015-2)

by

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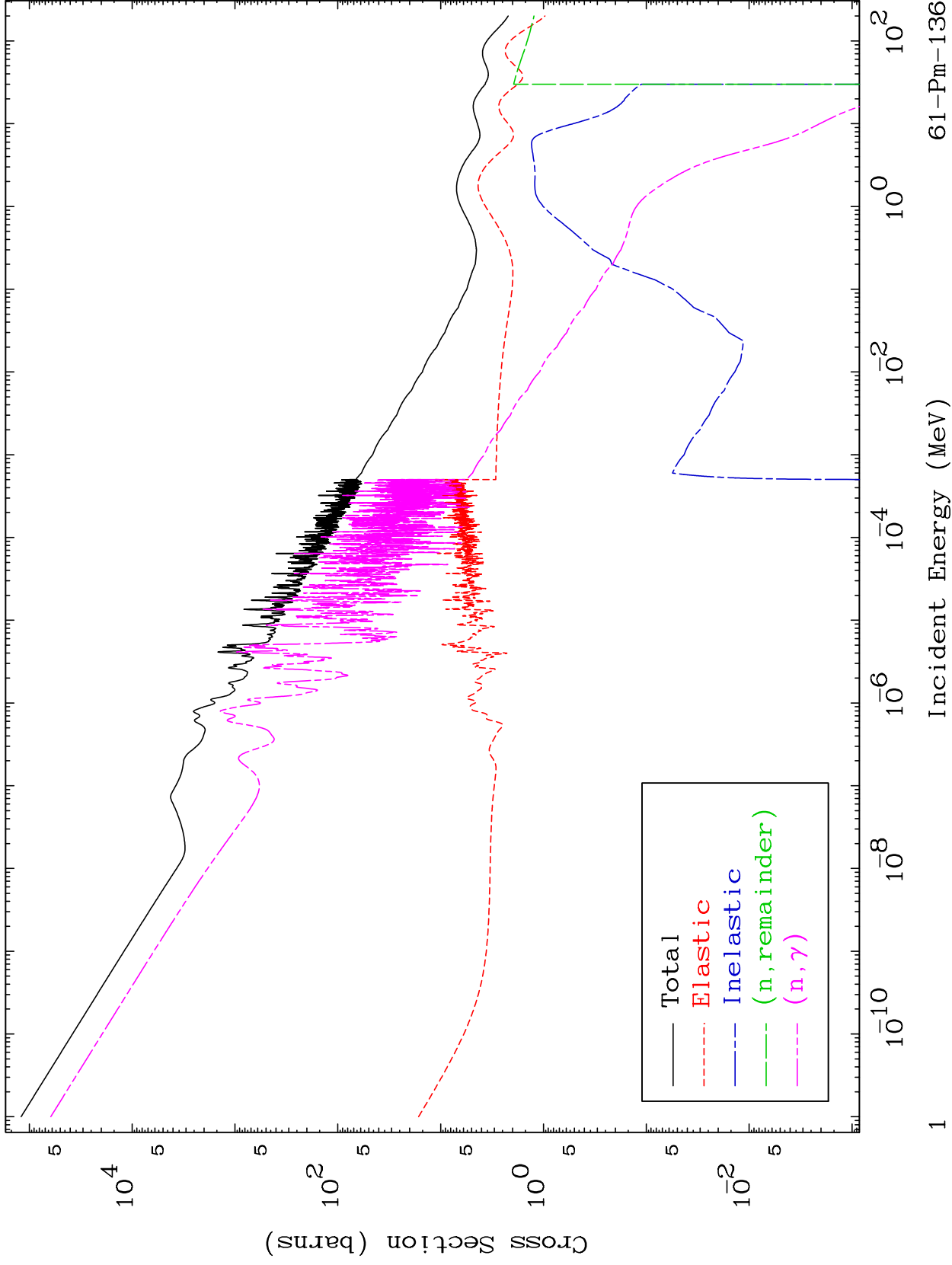
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 6117

Major
293 Kelvin Cross Sections

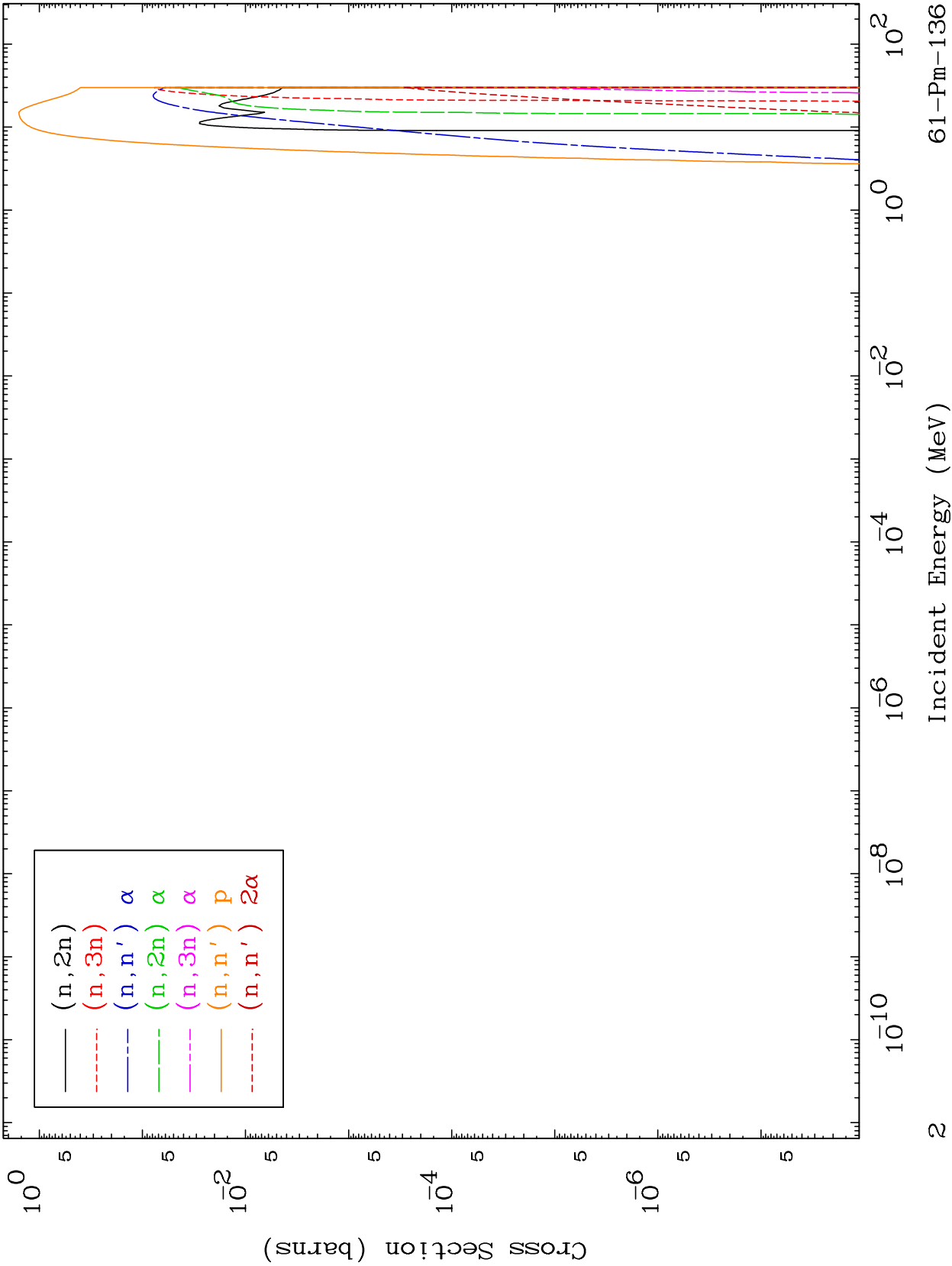
61-Pm-136

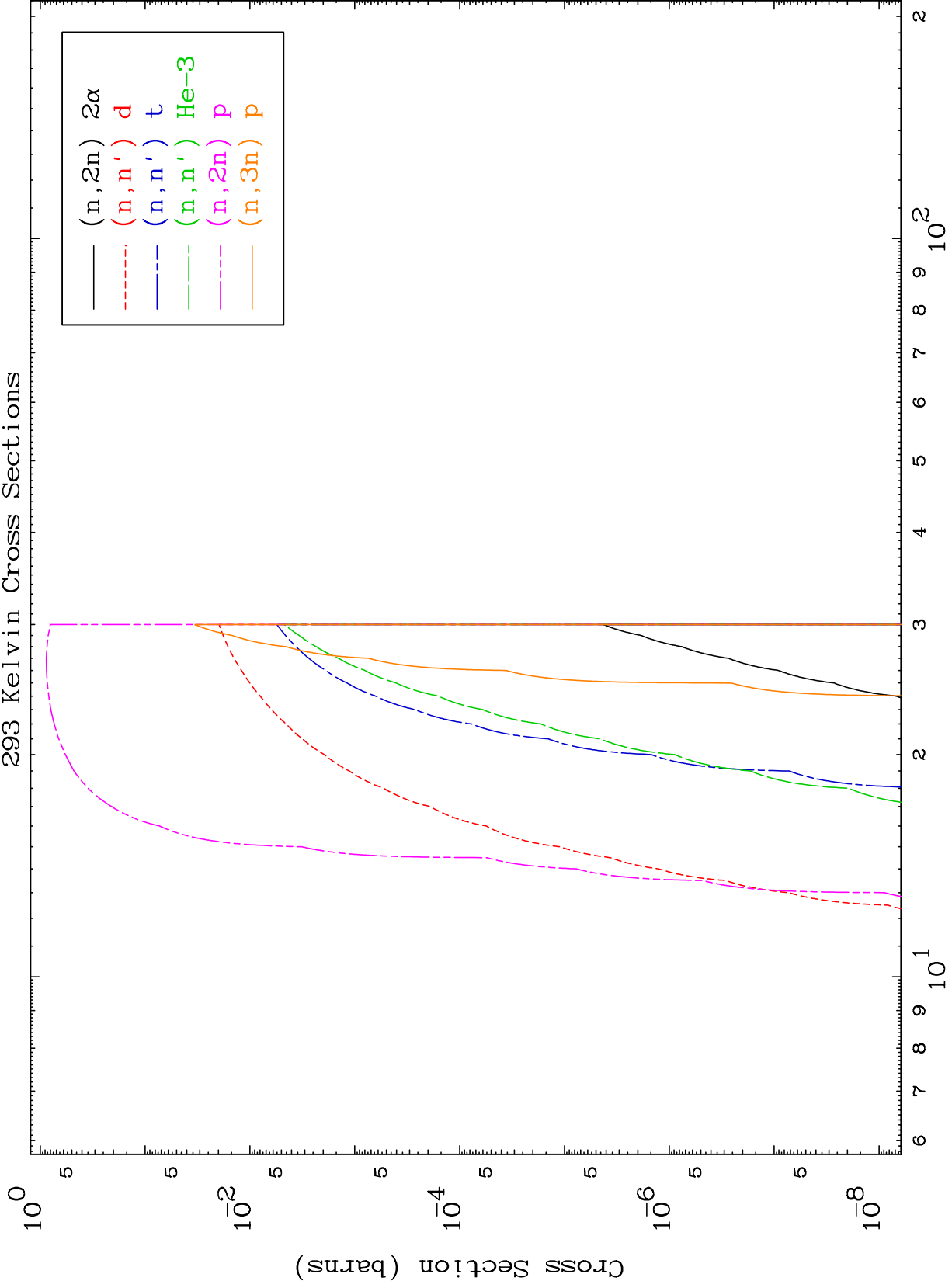


MAT 6117

Neutron Production
293 Kelvin Cross Sections

61-Pm-136

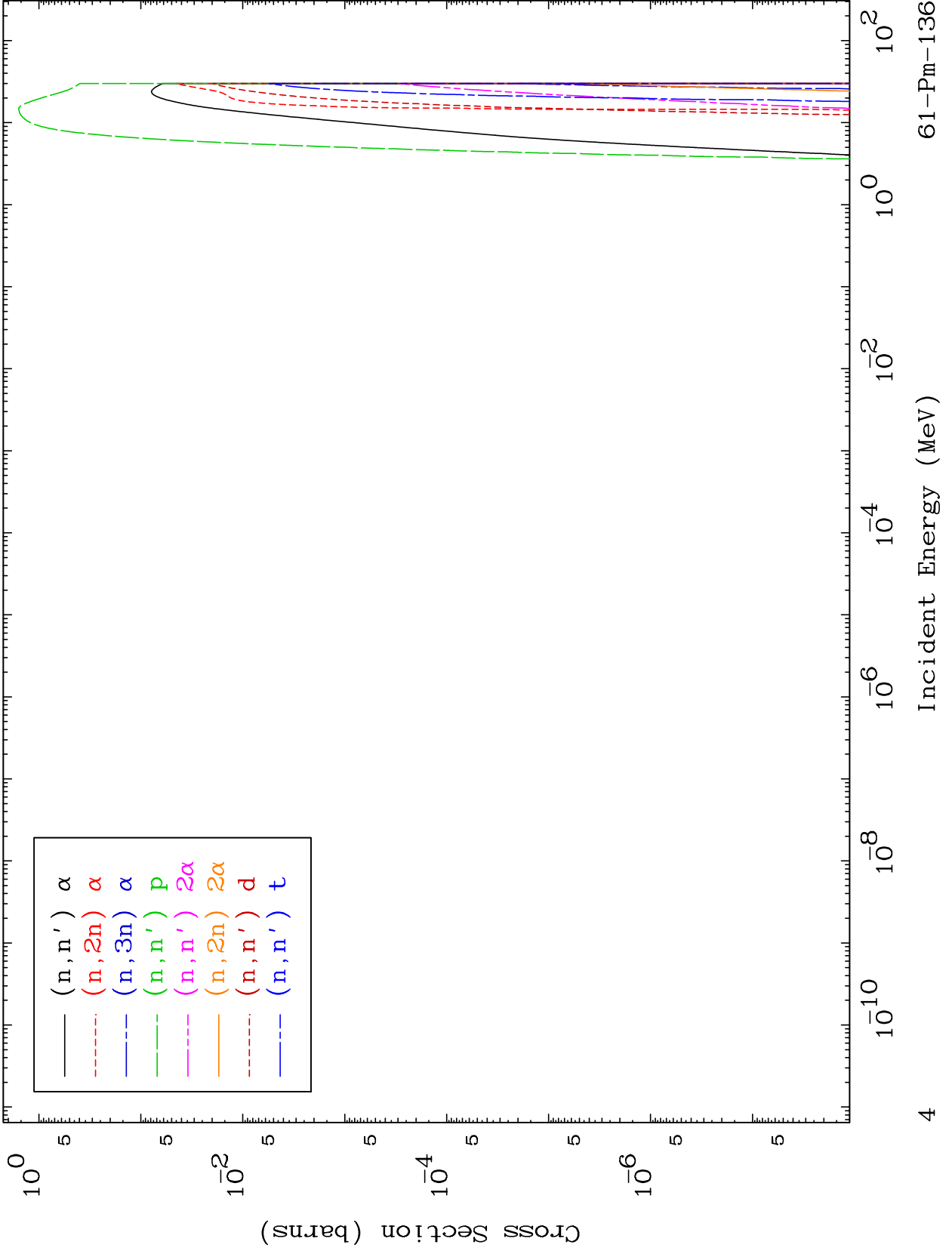




MAT 6117

Charged Particle
293 Kelvin Cross Sections

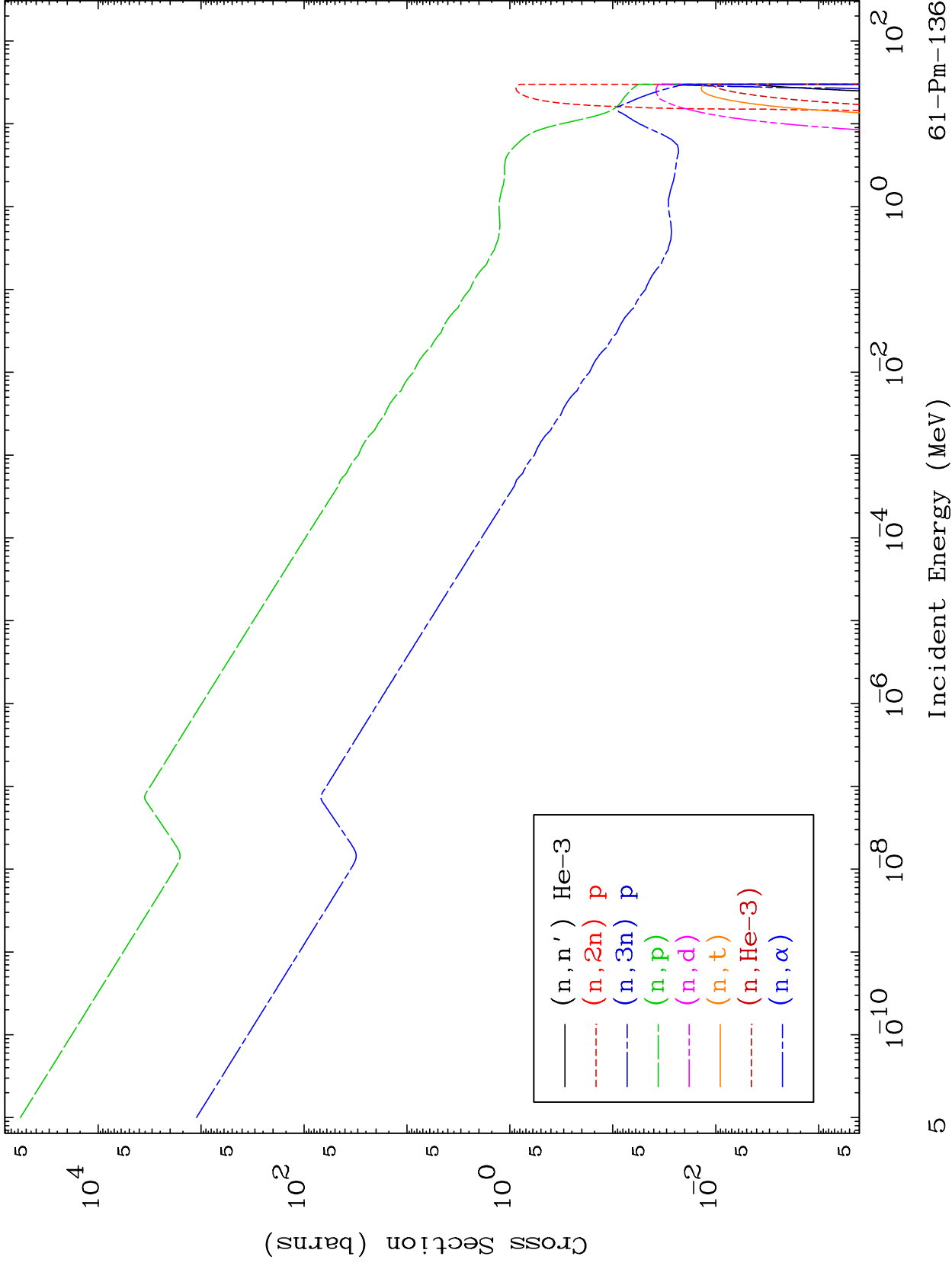
61-Pm-136



MAT 6117

Charged Particle
293 Kelvin Cross Sections

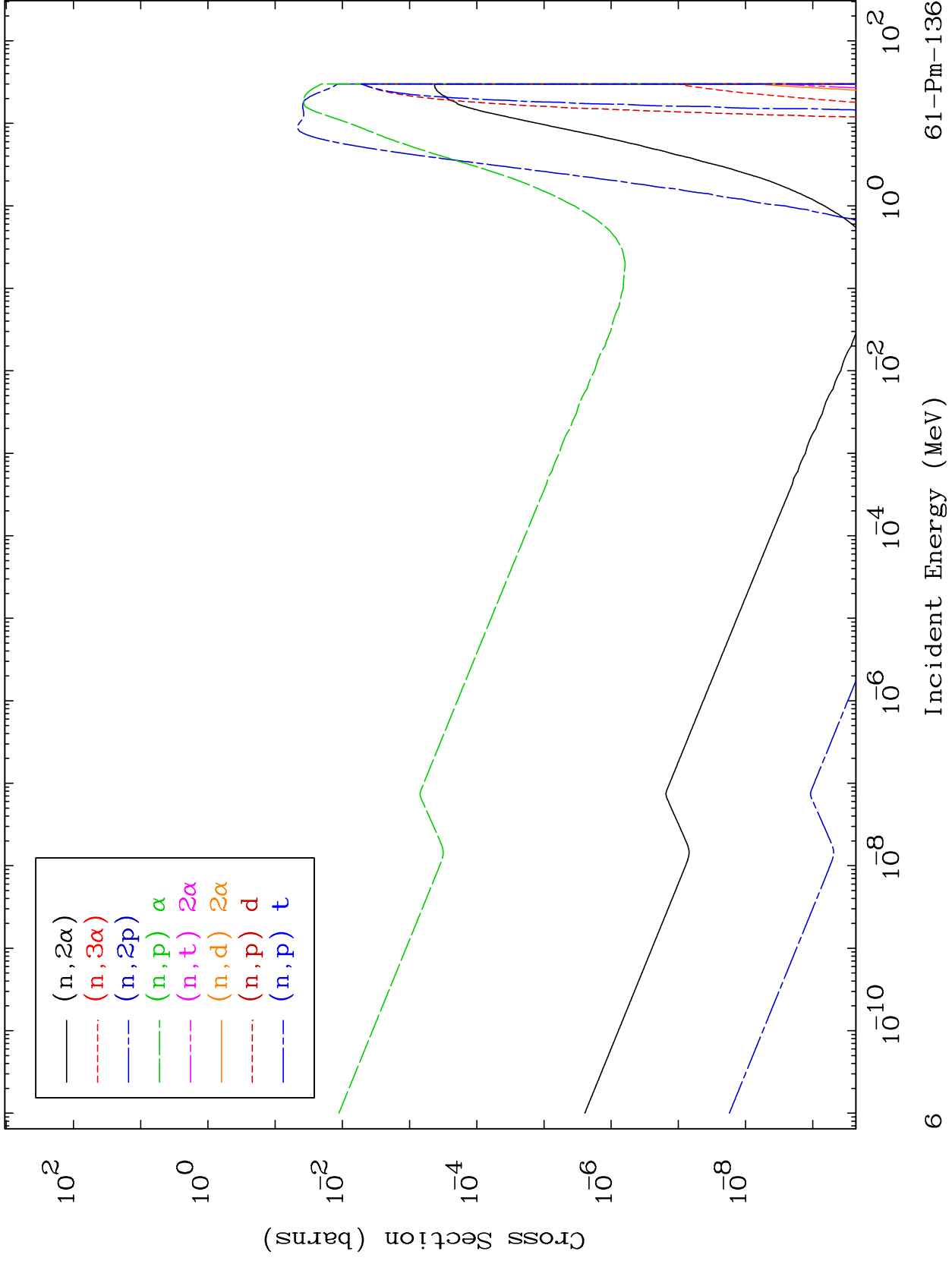
61-Pm-136



MAT 6117

Charged Particle
293 Kelvin Cross Sections

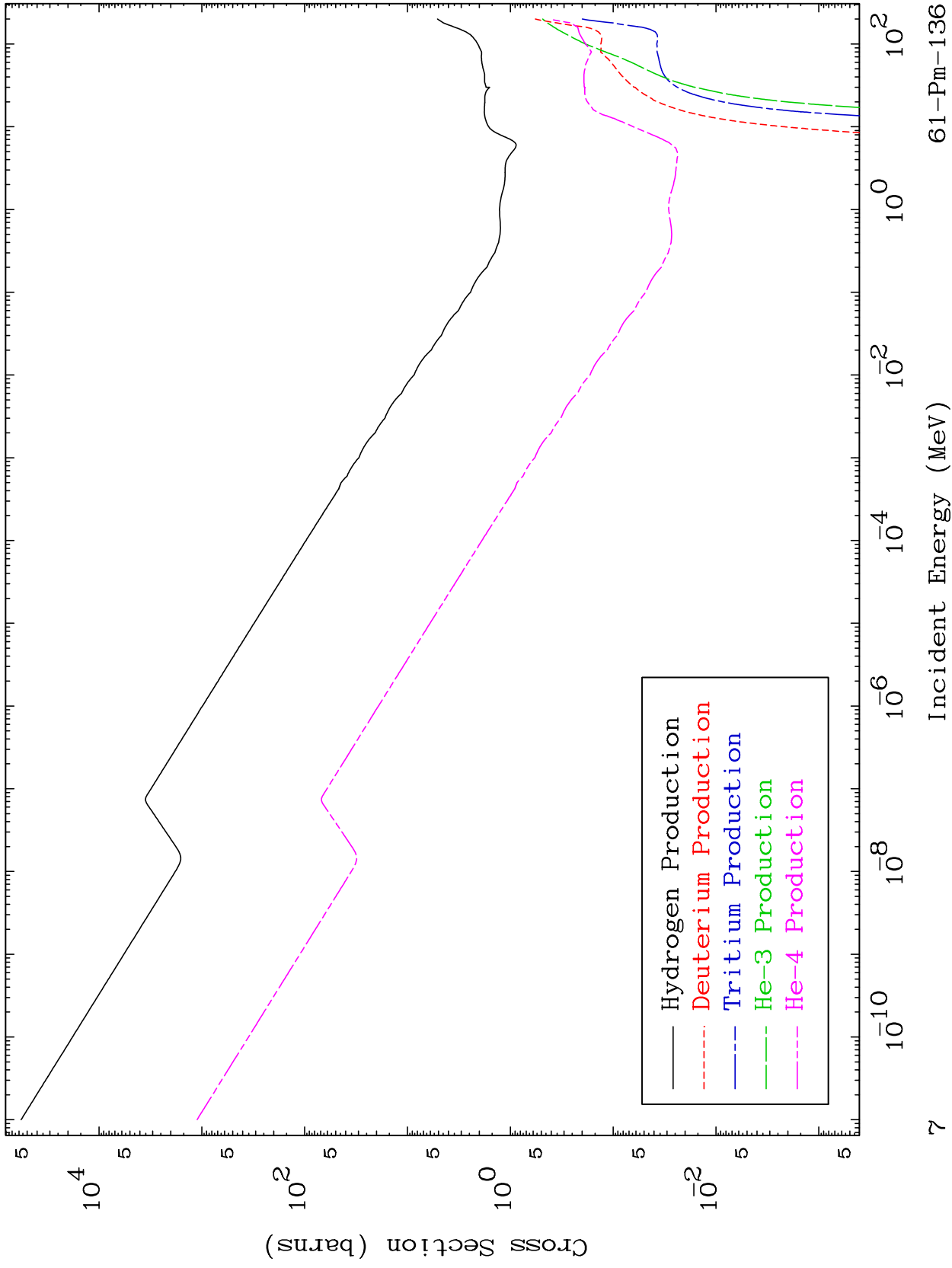
61-Pm-136



MAT 6117

Particle Production
293 Kelvin Cross Sections

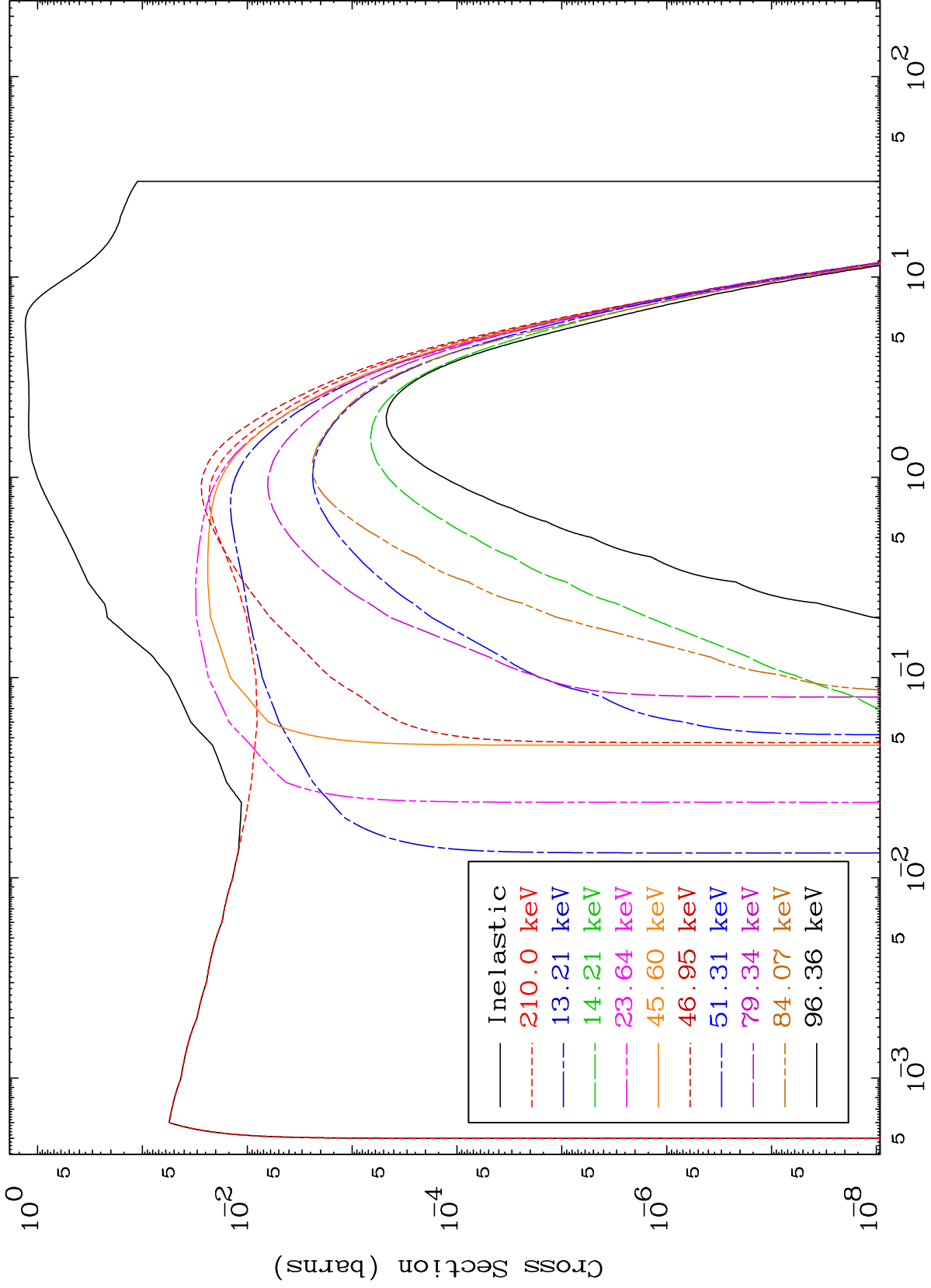
61-Pm-136



MAT 6117

(n,n') Level
293 Kelvin Cross Sections

61-Pm-136

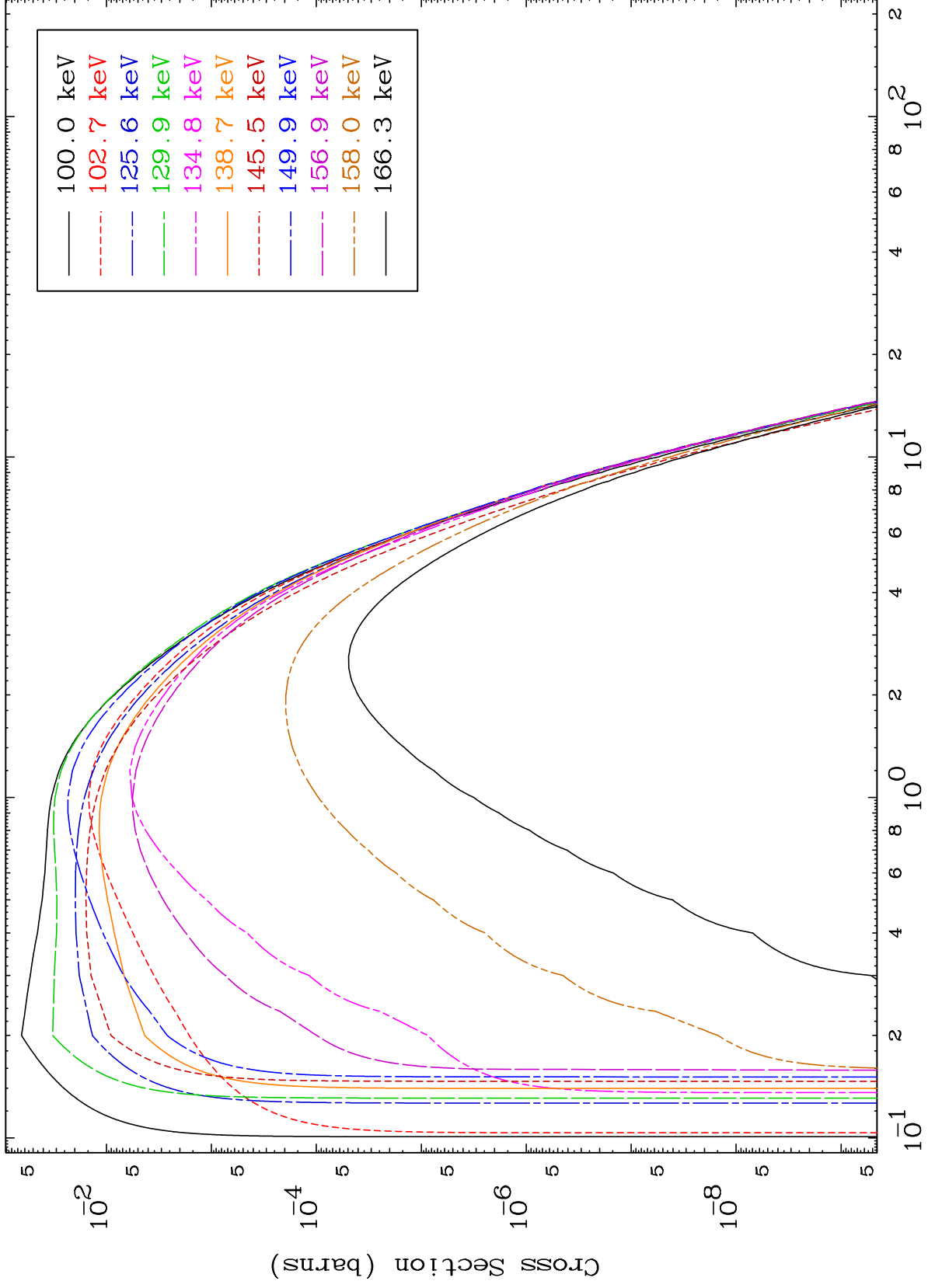


MAT 6117

(n,n') Level

61-Pm-136

293 Kelvin Cross Sections



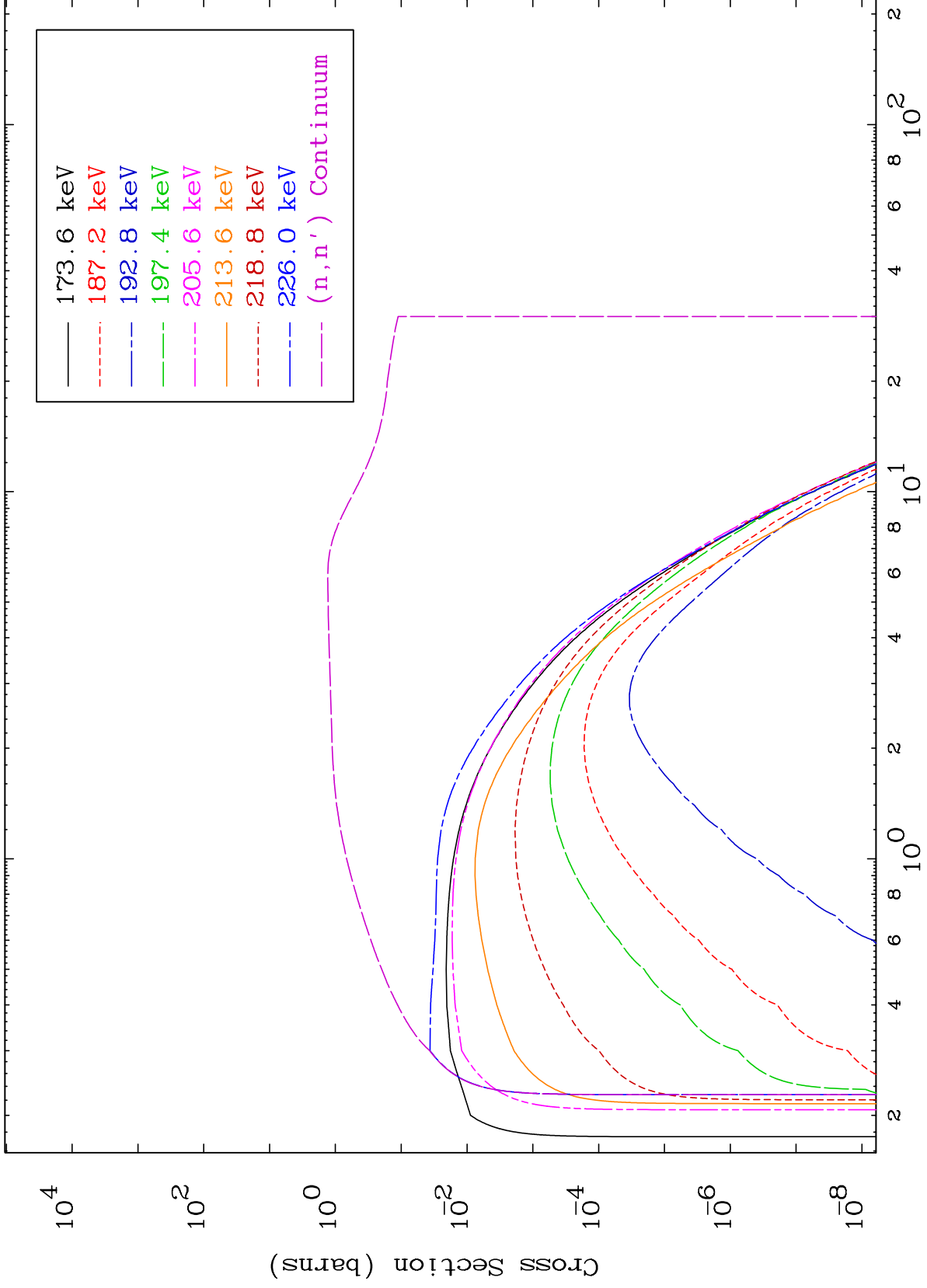
Incident Energy (MeV)

61-Pm-136

MAT 6117

(n,n') Level
293 Kelvin Cross Sections

61-Pm-136



10

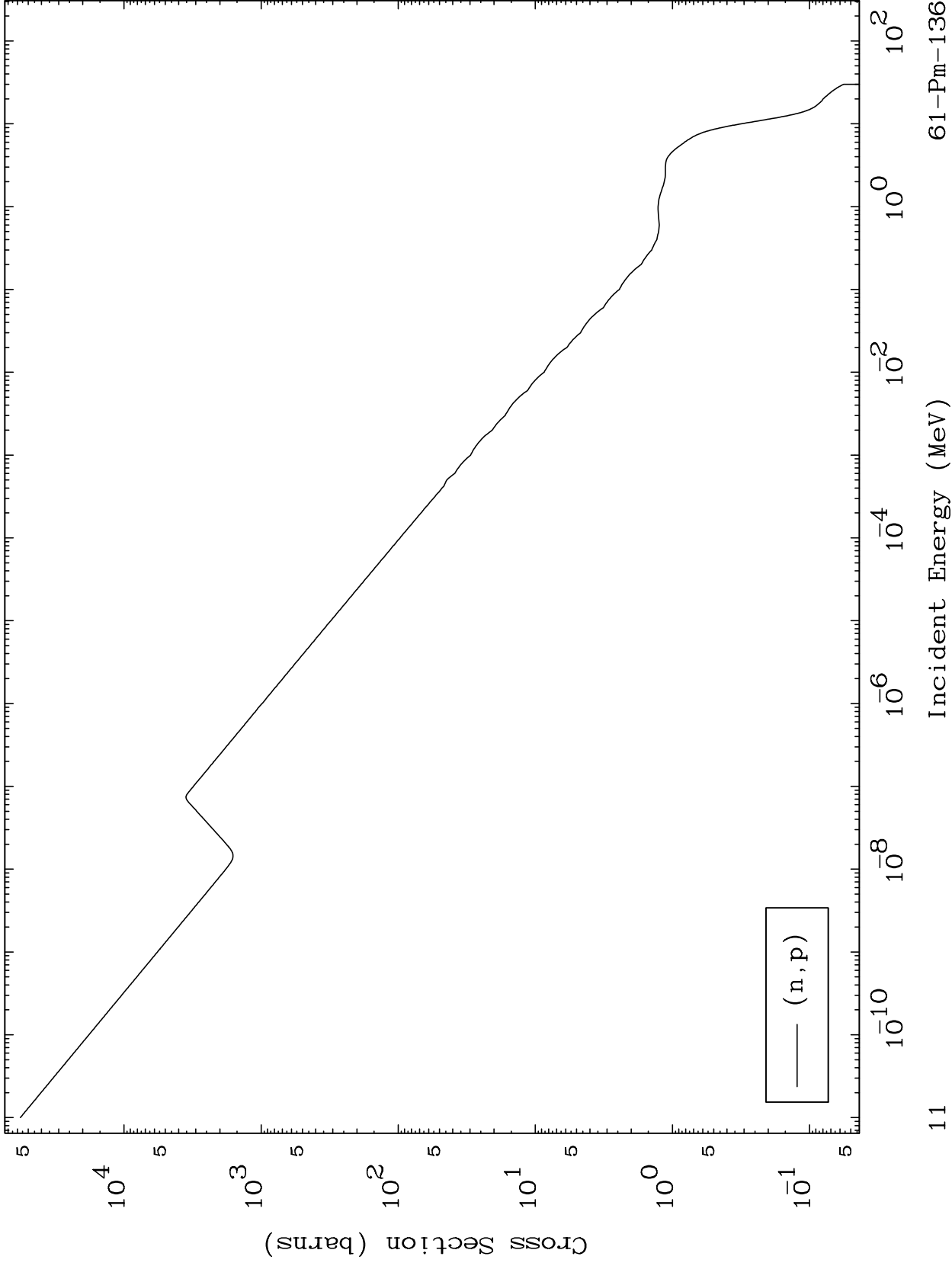
Incident Energy (MeV)

61-Pm-136

MAT 6117

(n,p) Levels
293 Kelvin Cross Sections

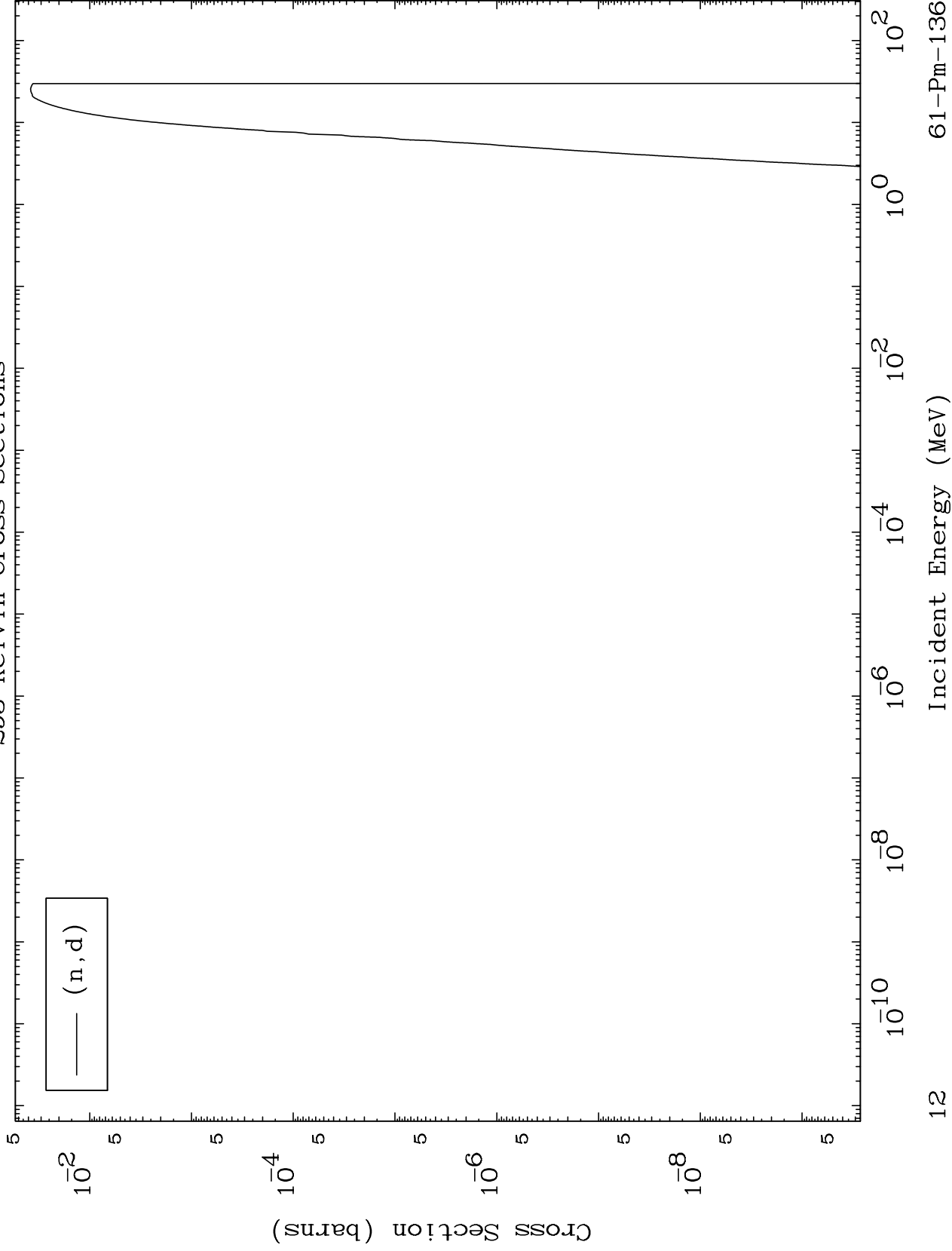
61-Pm-136



MAT 6117

(n,d) Levels
293 Kelvin Cross Sections

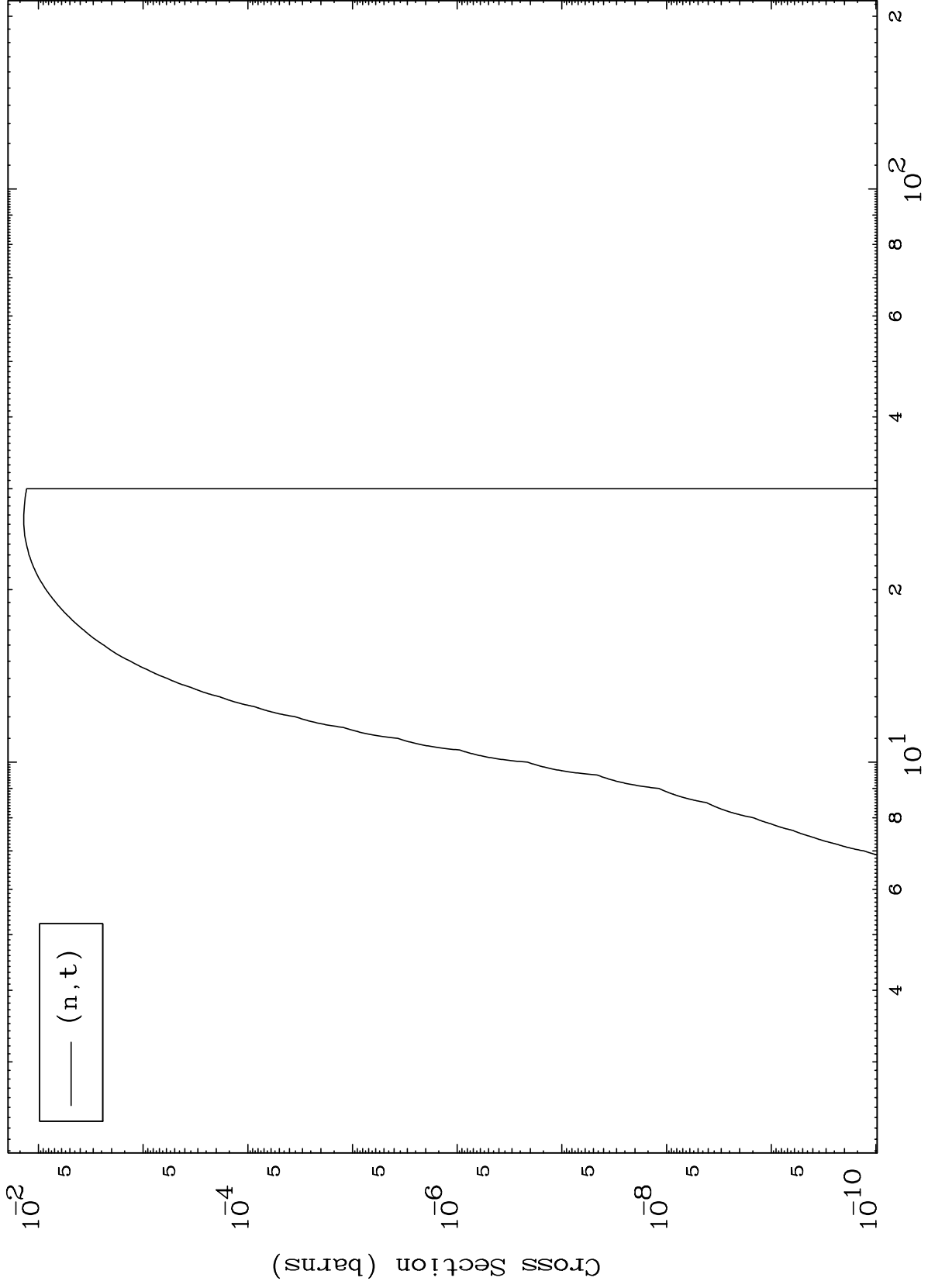
61-Pm-136



MAT 6117

(n,t) Levels
293 Kelvin Cross Sections

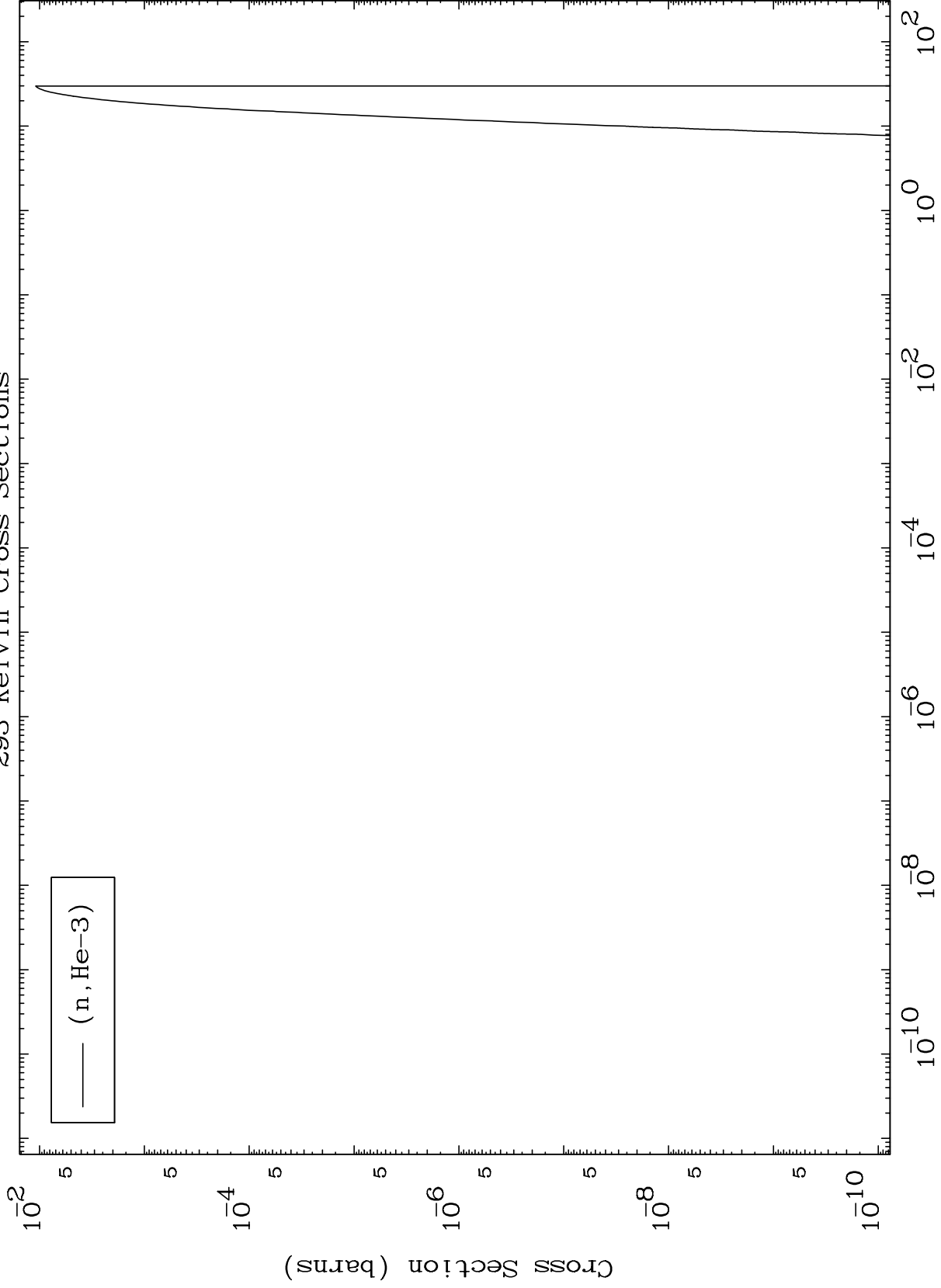
61-Pm-136



MAT 6117

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-136



14

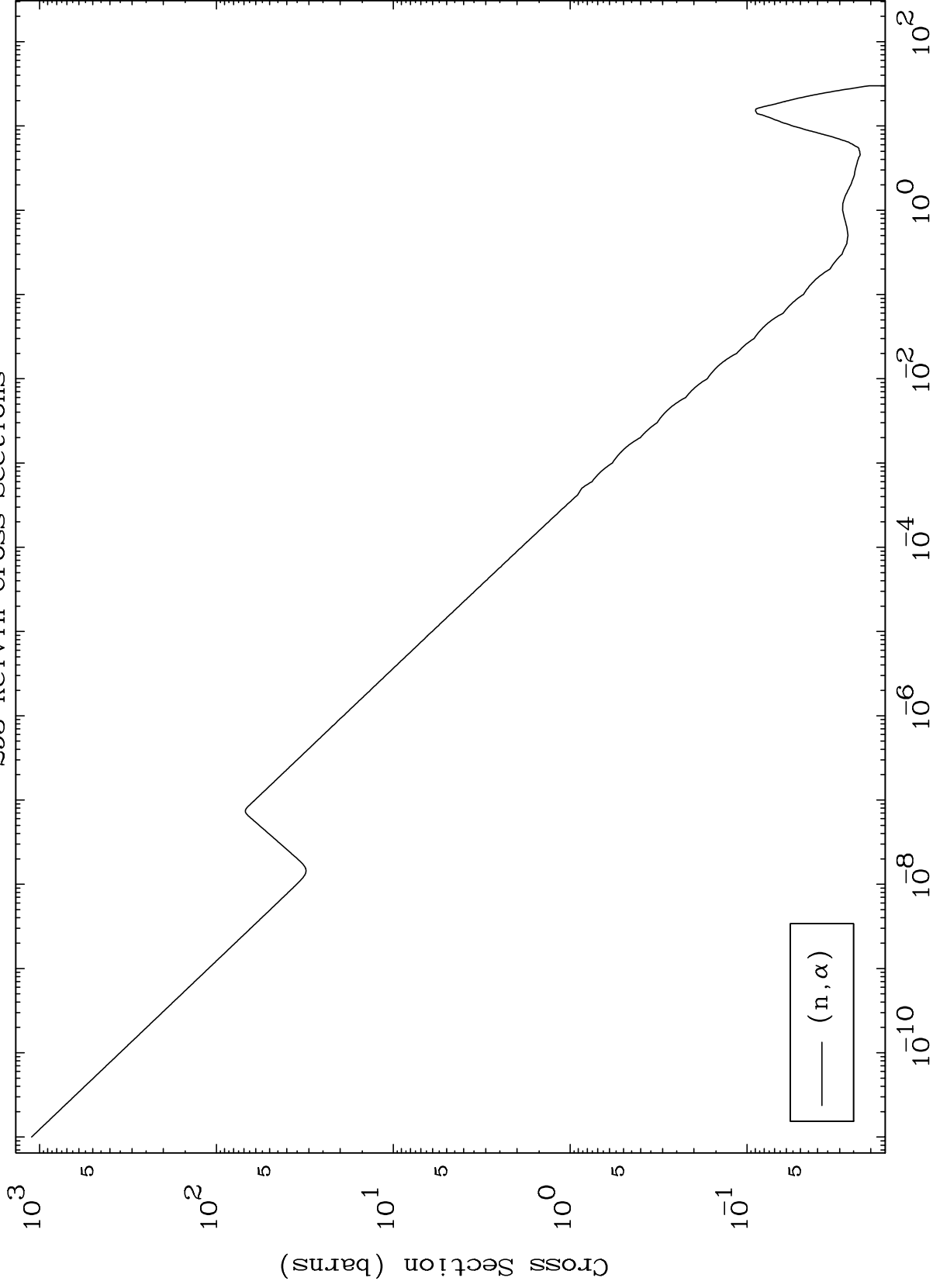
Incident Energy (MeV)

61-Pm-136

MAT 6117

(n, α) Levels
293 Kelvin Cross Sections

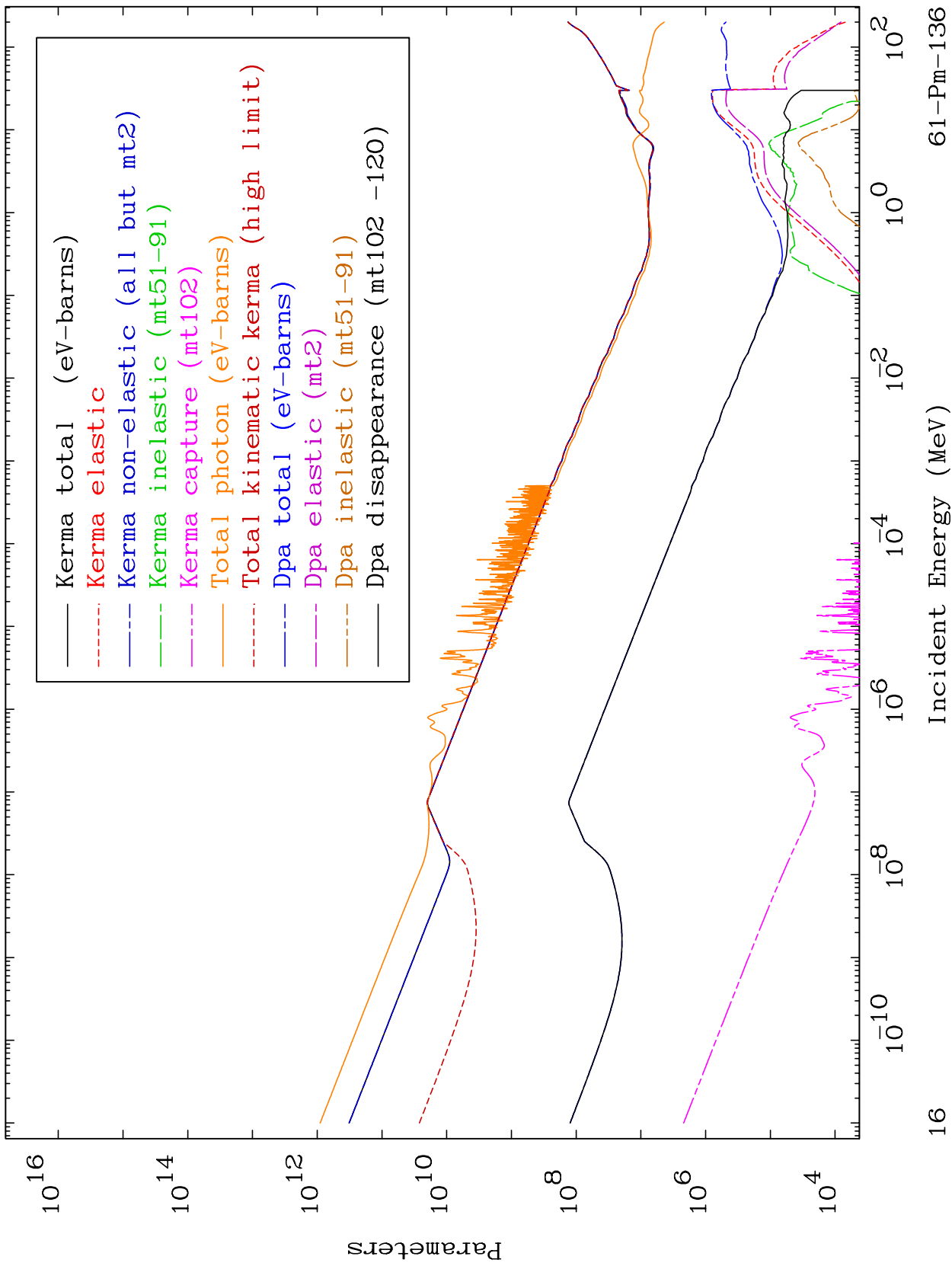
61-Pm-136



15

Incident Energy (MeV)

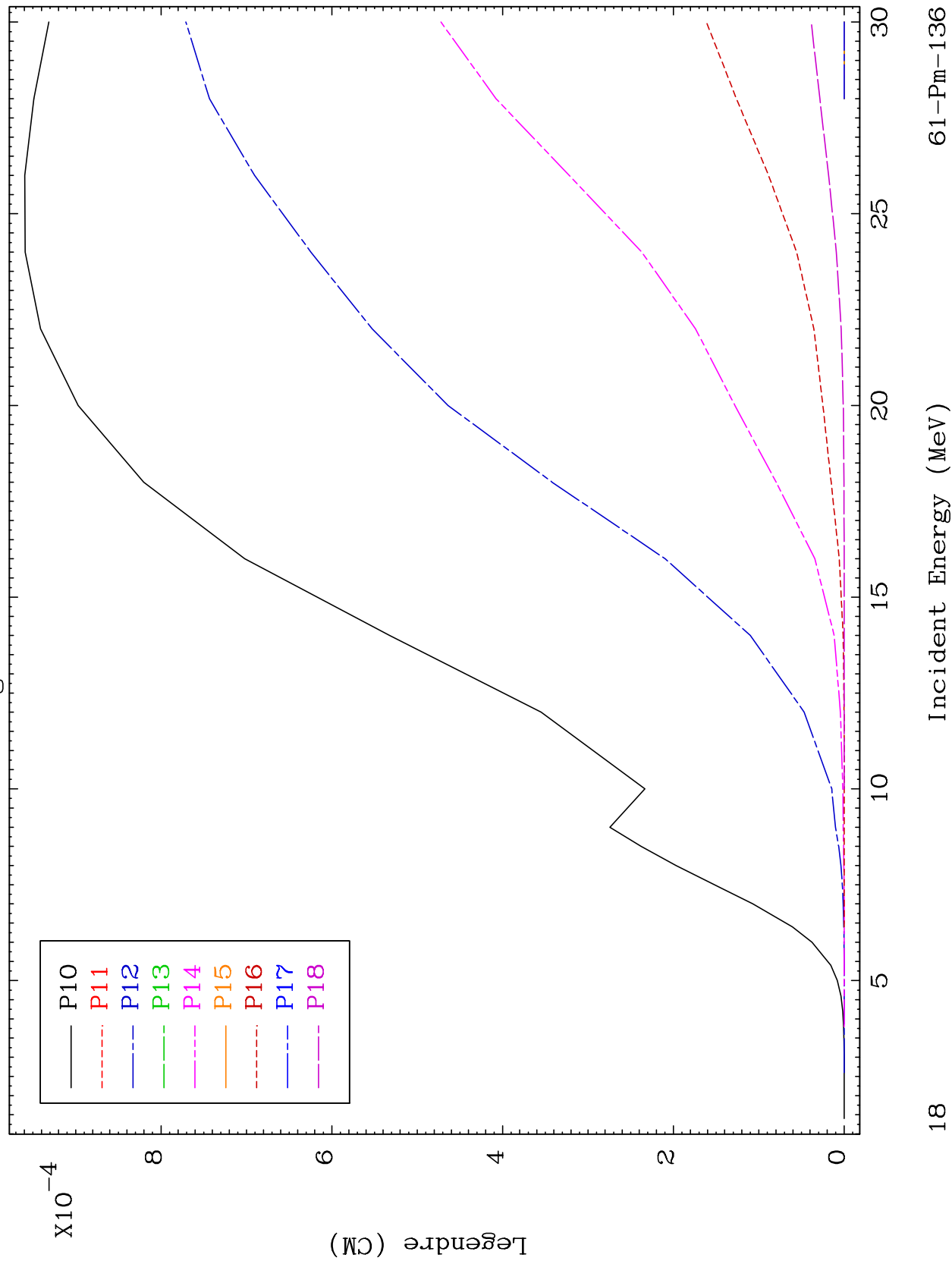
61-Pm-136



MAT 6117

Elastic Legendre Coefficients

61-Pm-136



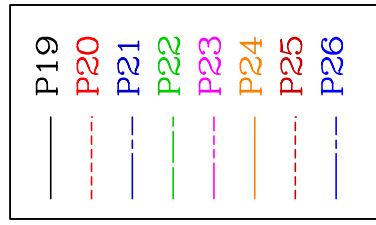
18

61-Pm-136

MAT 6117

Elastic
Legendre Coefficients

61-Pm-136



$\times 10^{-6}$

Legendre (CM)

3

2

1

0

15

20

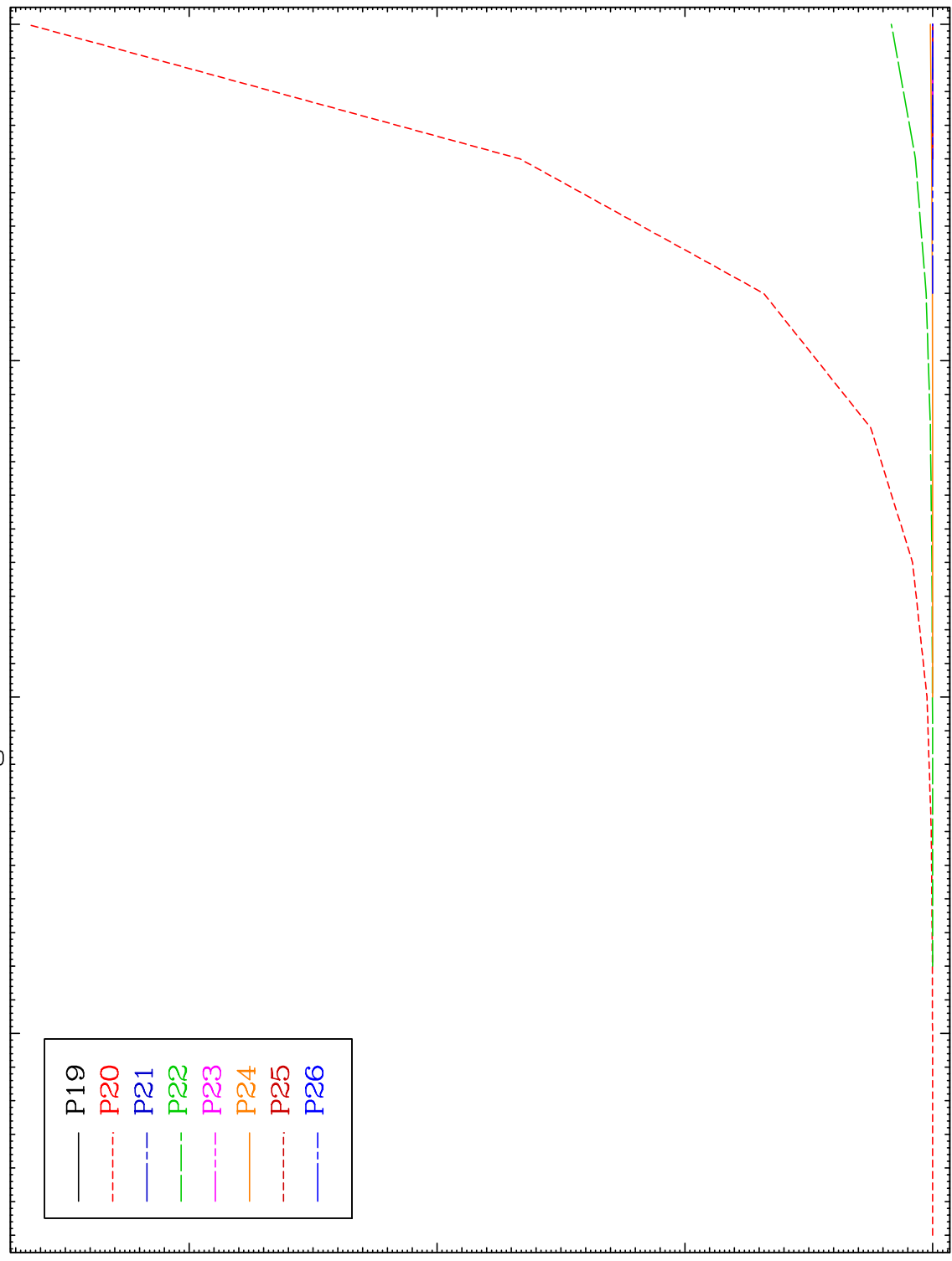
25

30

19

Incident Energy (MeV)

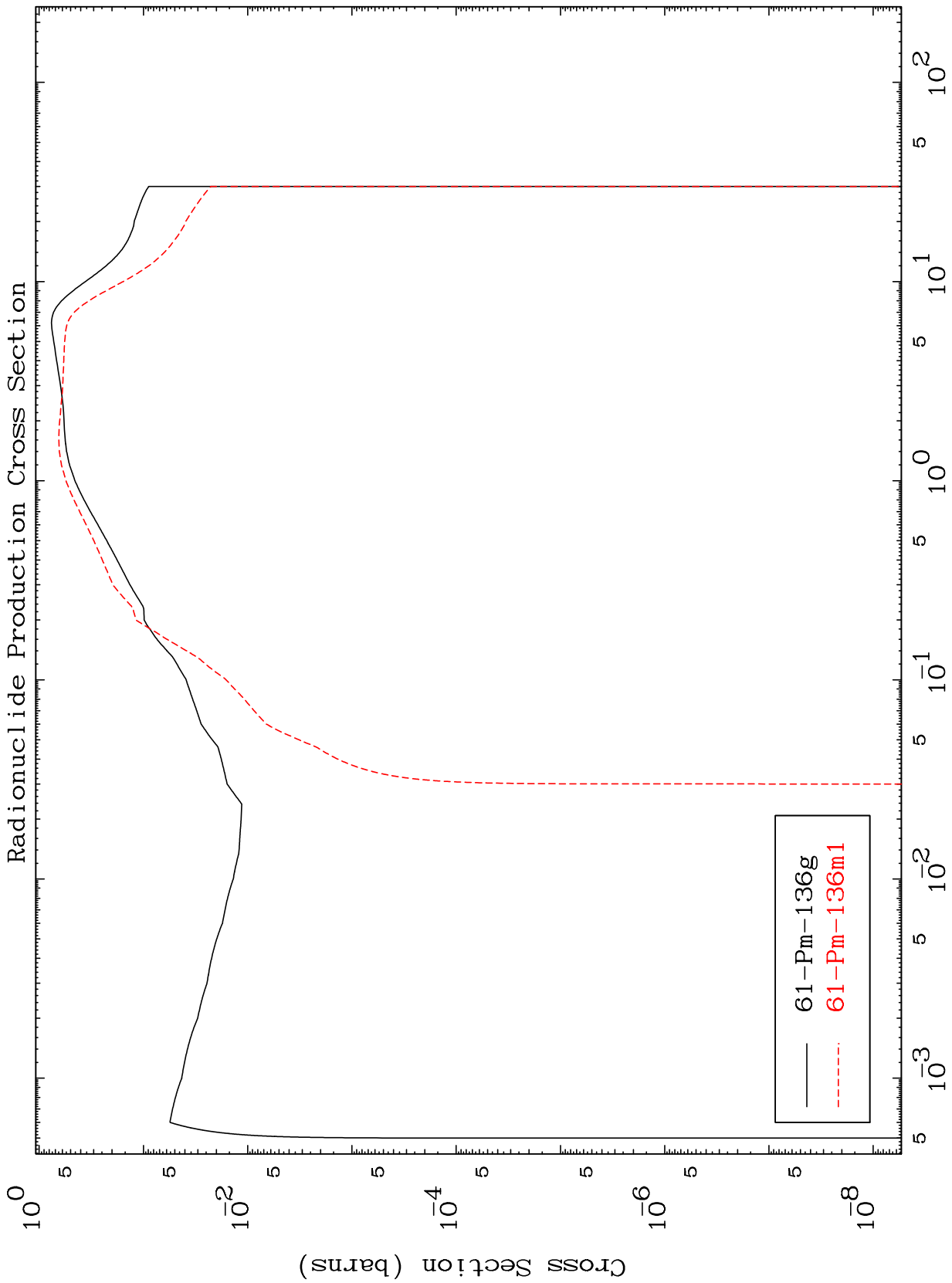
61-Pm-136



MAT 6117

61-Pm-136

Inelastic
Radionuclide Production Cross Section



20

Incident Energy (MeV)

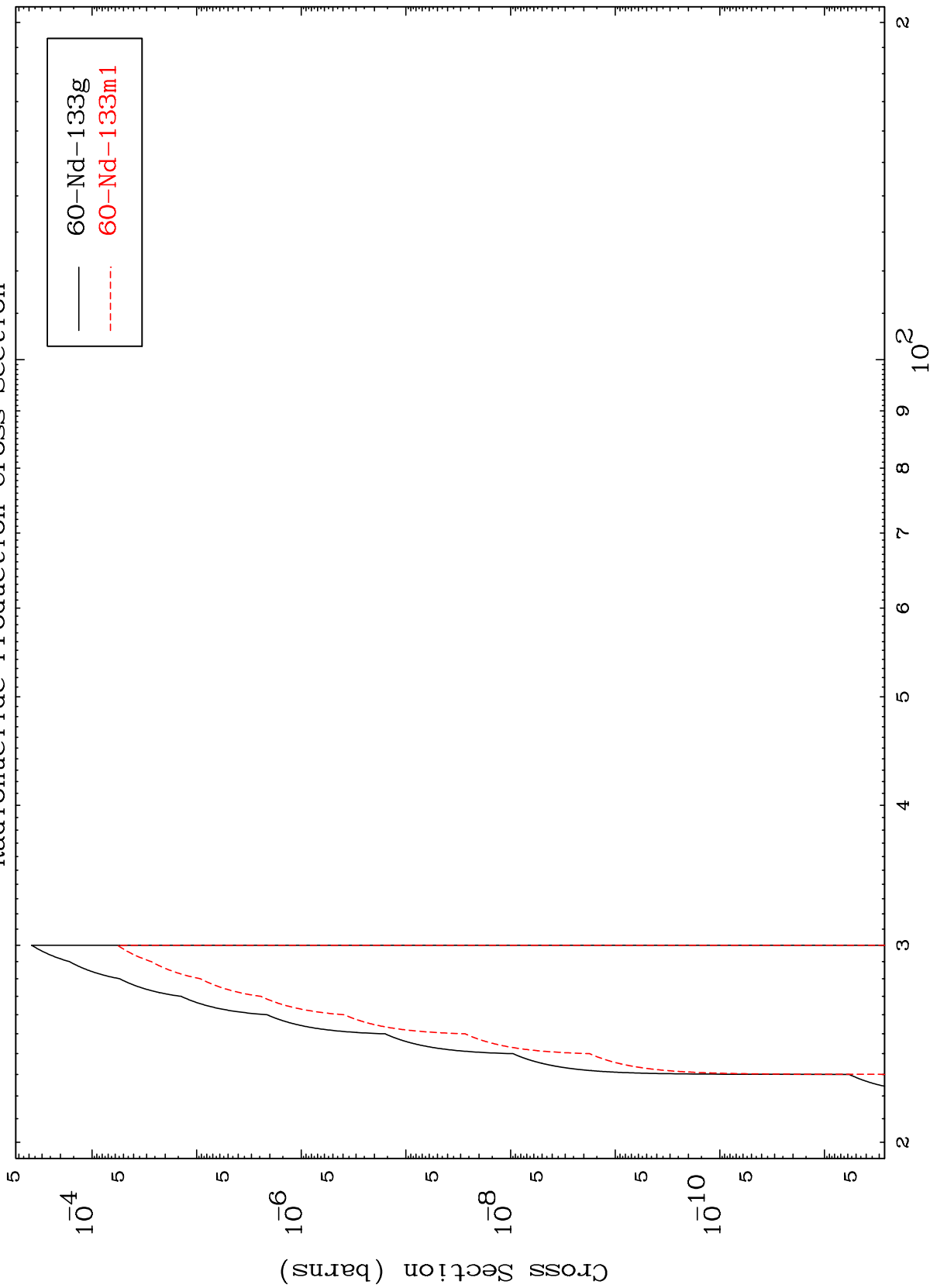
61-Pm-136

MAT 6117

(n,2n) d

61-Pm-136

Radionuclide Production Cross Section



21

Incident Energy (MeV)

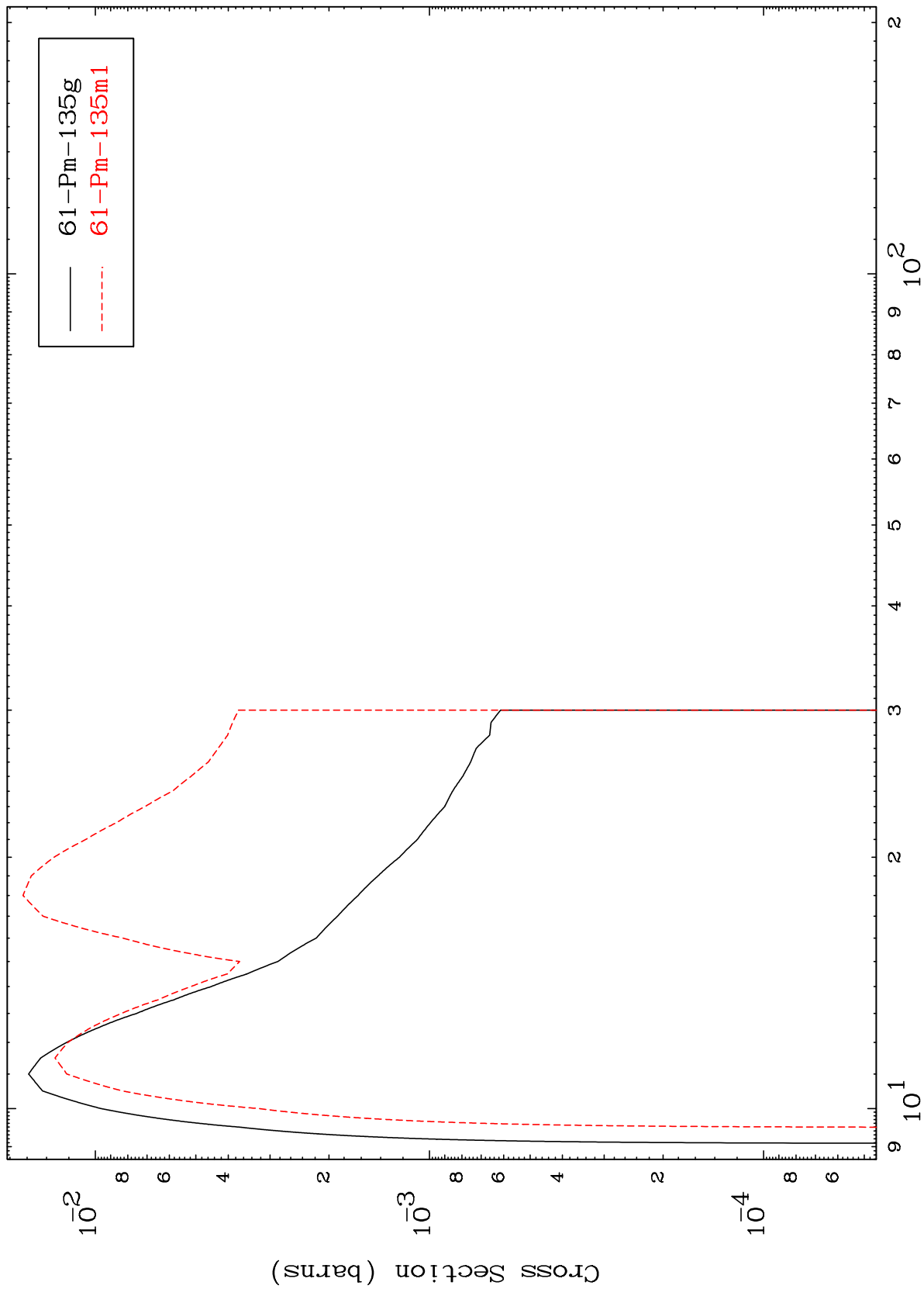
61-Pm-136

MAT 6117

61-Pm-136

(n,2n)

Radionuclide Production Cross Section



22

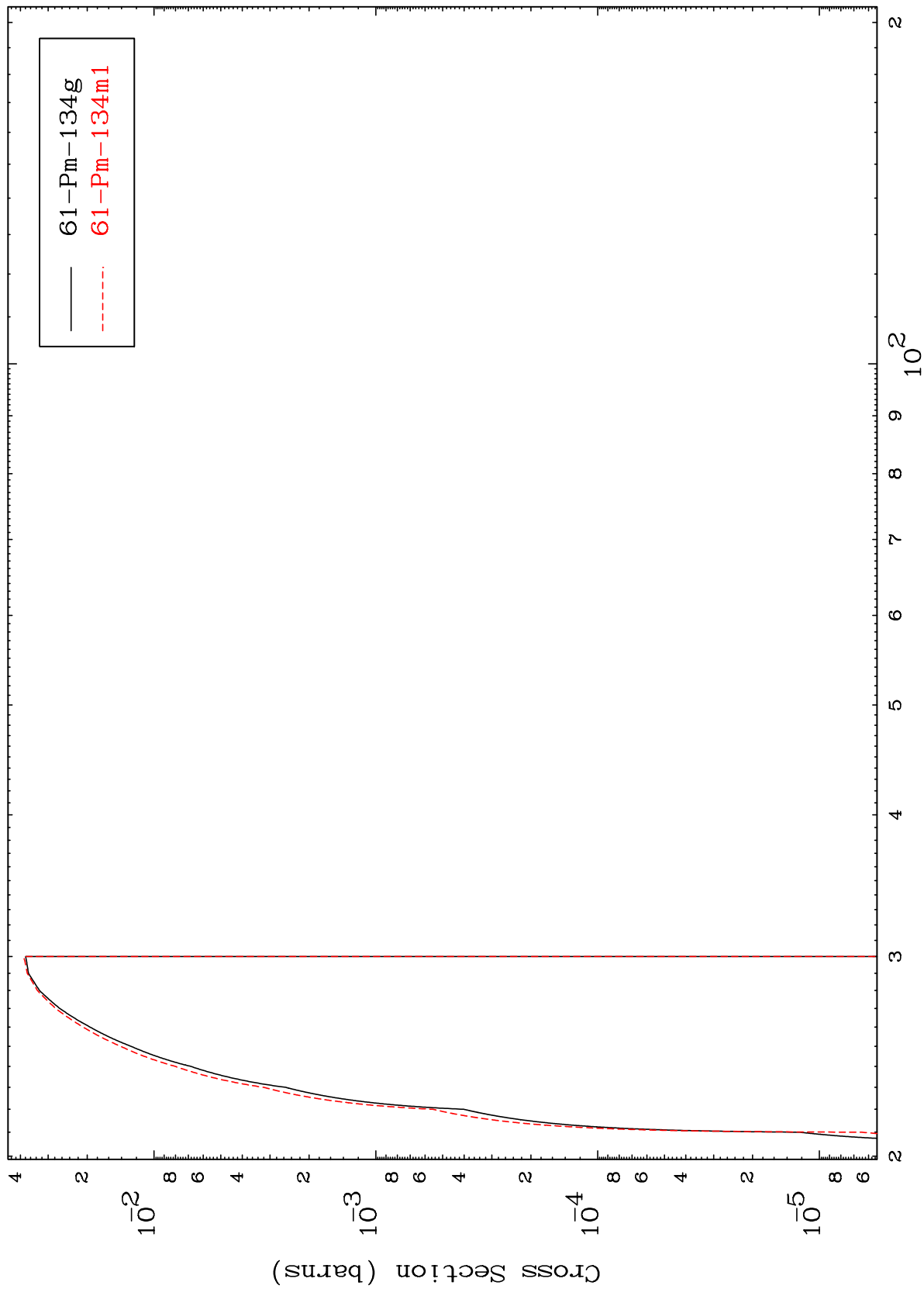
Incident Energy (MeV)

61-Pm-136

MAT 6117

61-Pm-136

(n,3n)
Radionuclide Production Cross Section



23

61-Pm-136

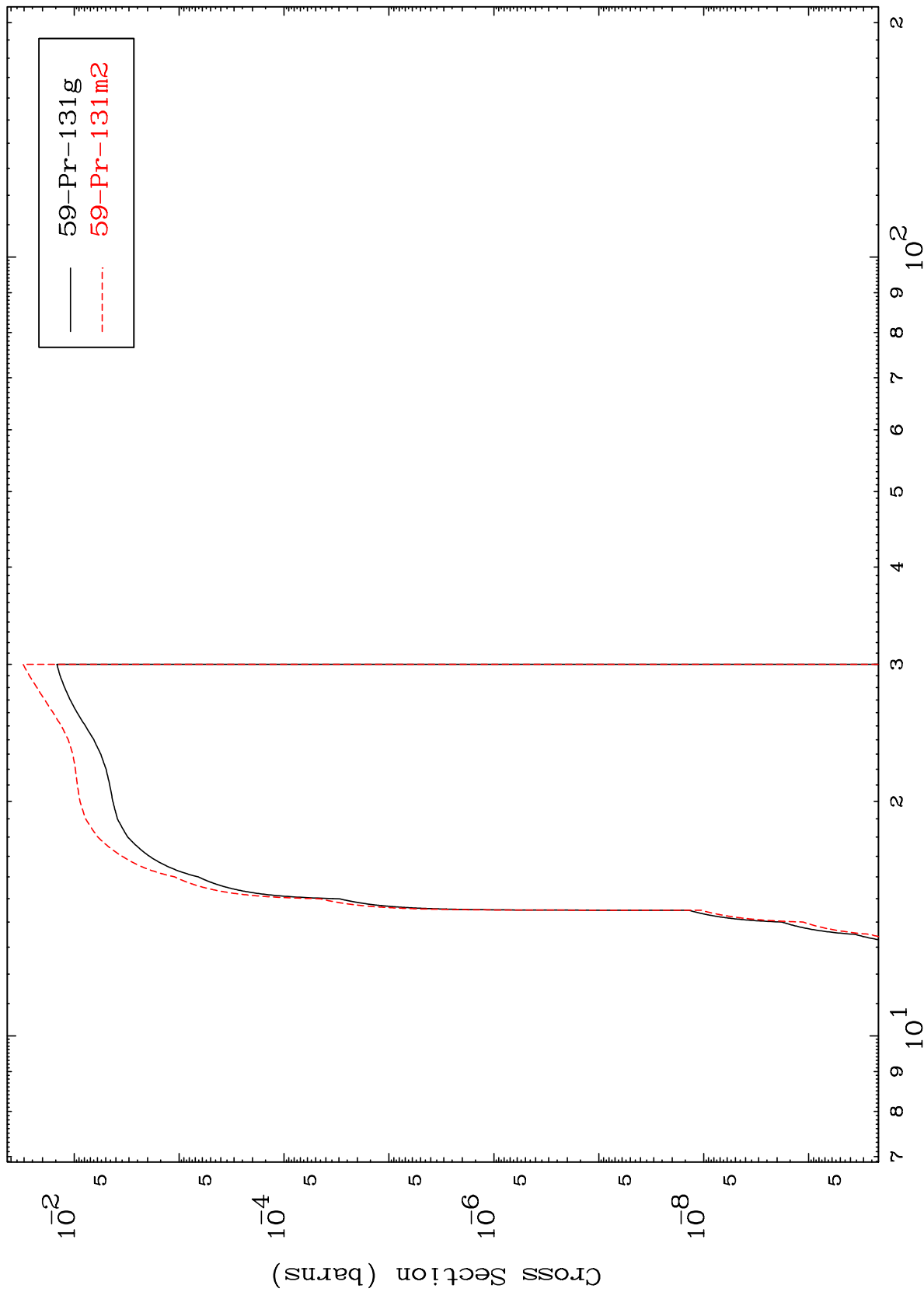
Incident Energy (MeV)

MAT 6117

61-Pm-136

(n,2n) α

Radionuclide Production Cross Section



61-Pm-136

Incident Energy (MeV)

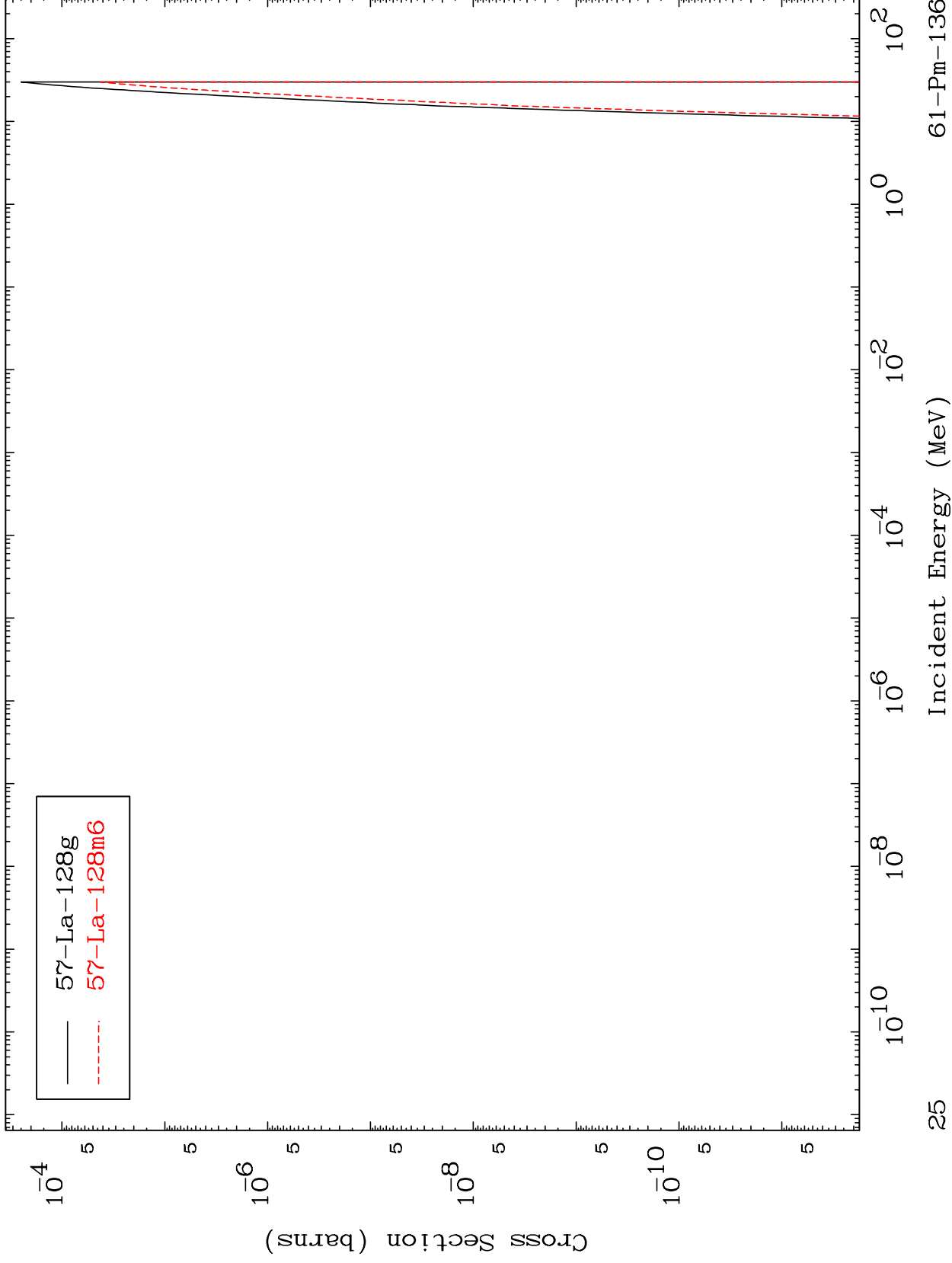
24

MAT 61117

(n,n') 2α

61-Pm-136

Radionuclide Production Cross Section

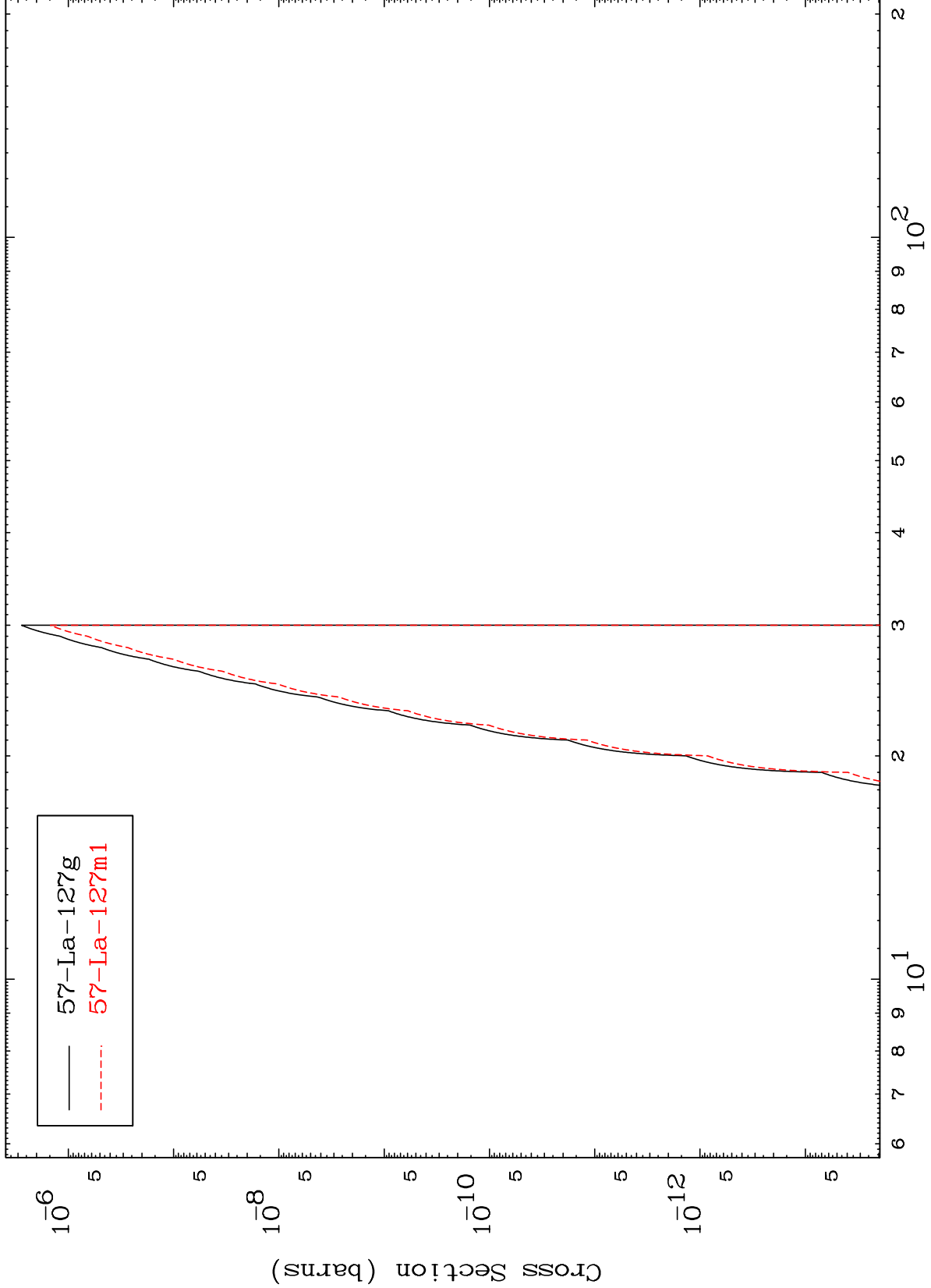


MAT 6117

(n,2n) 2α

61-Pm-136

Radionuclide Production Cross Section



26

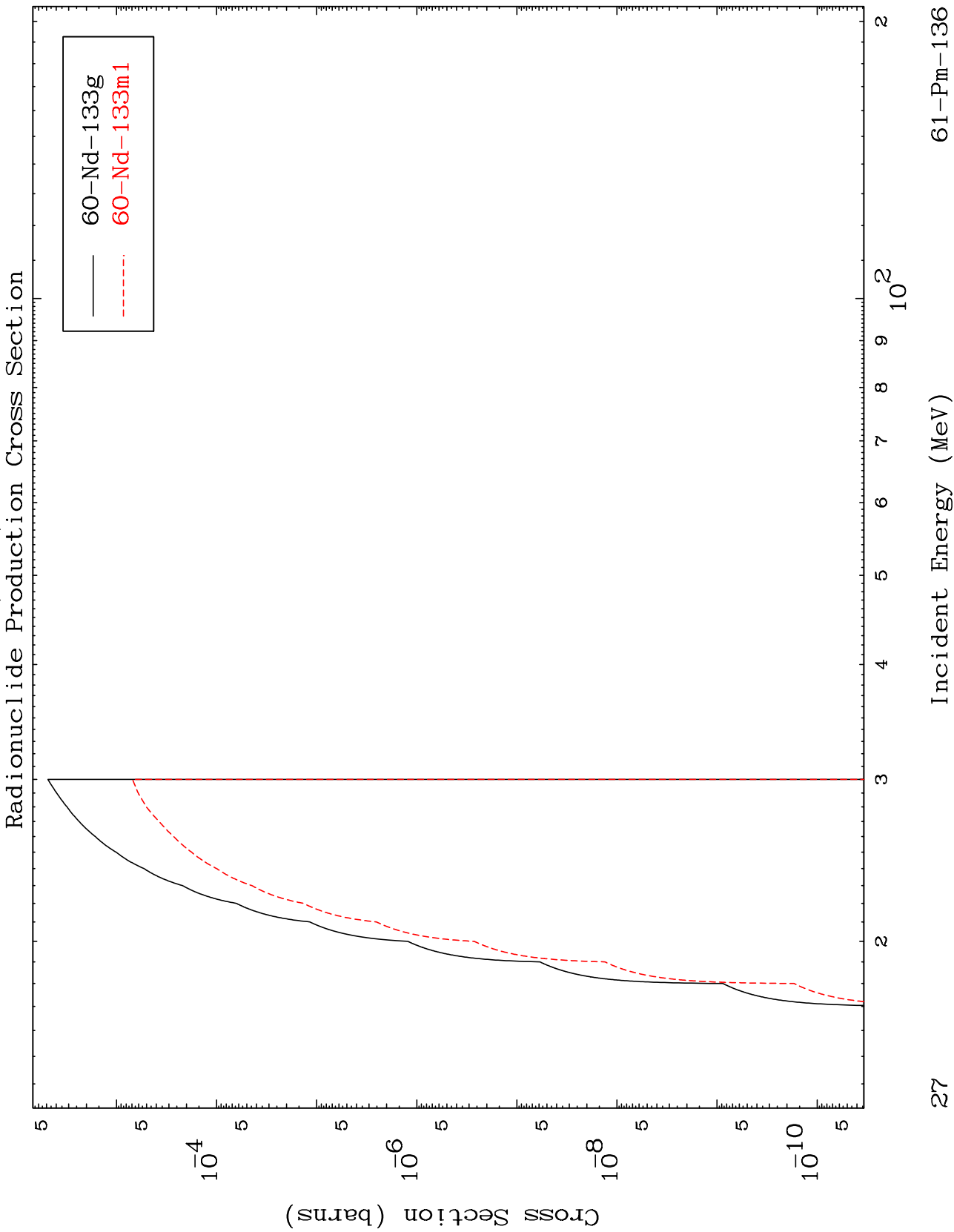
Incident Energy (MeV)

61-Pm-136

MAT 6117

(n,n') t

61-Pm-136



27

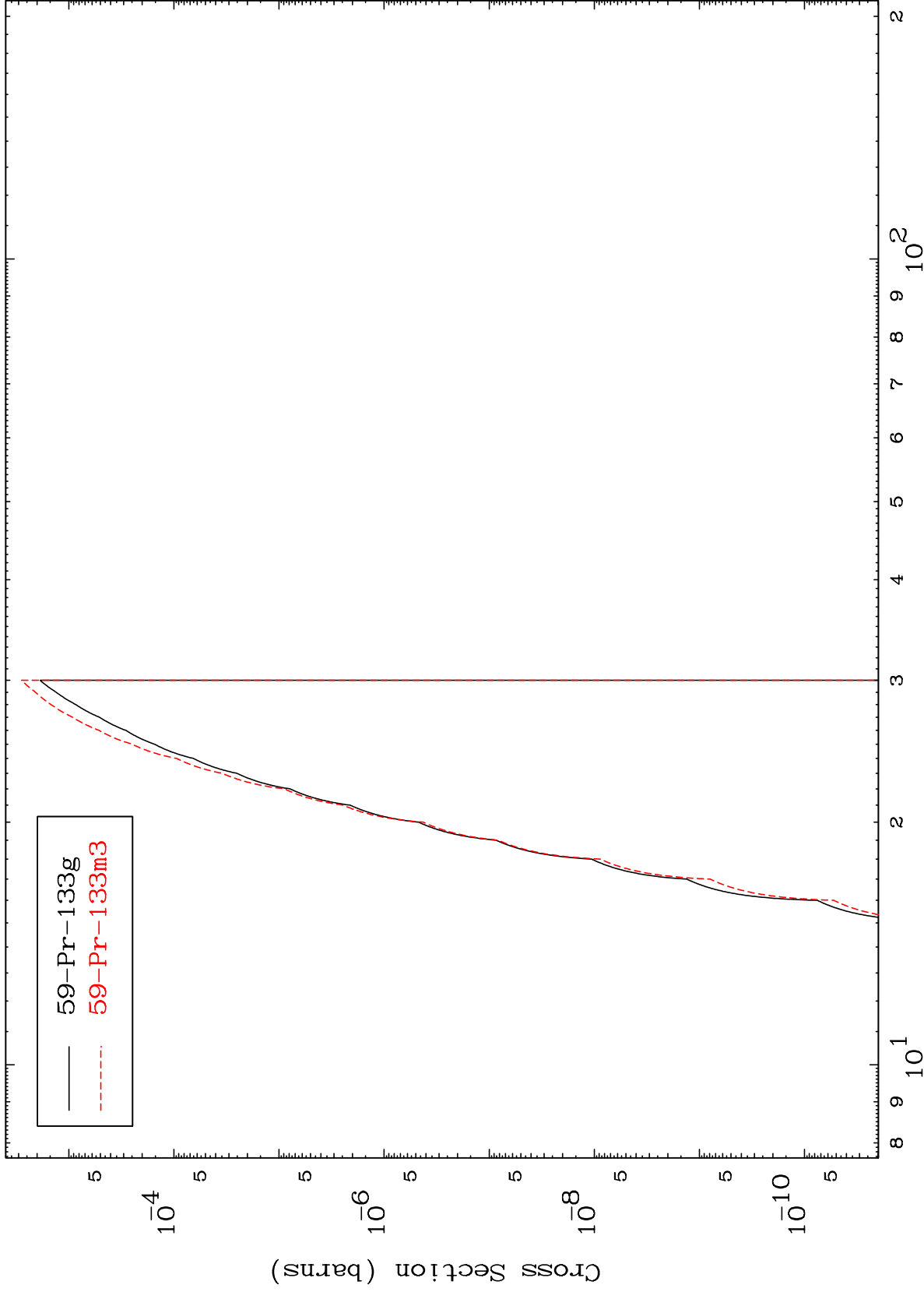
61-Pm-136

MAT 6117

(n,n') He-3

61-Pm-136

Radionuclide Production Cross Section

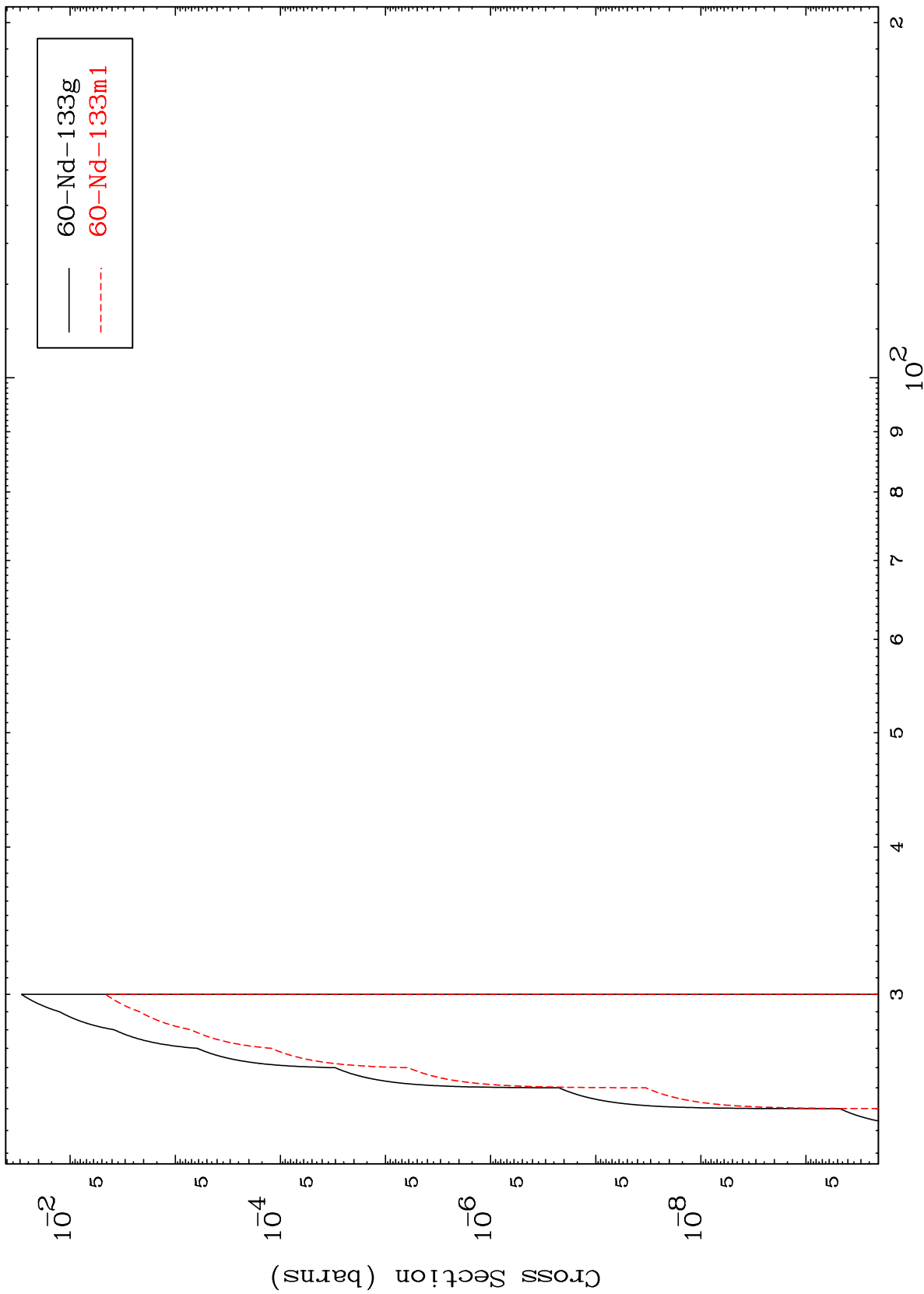


28

Incident Energy (MeV)

61-Pm-136

Radionuclide Production Cross Section

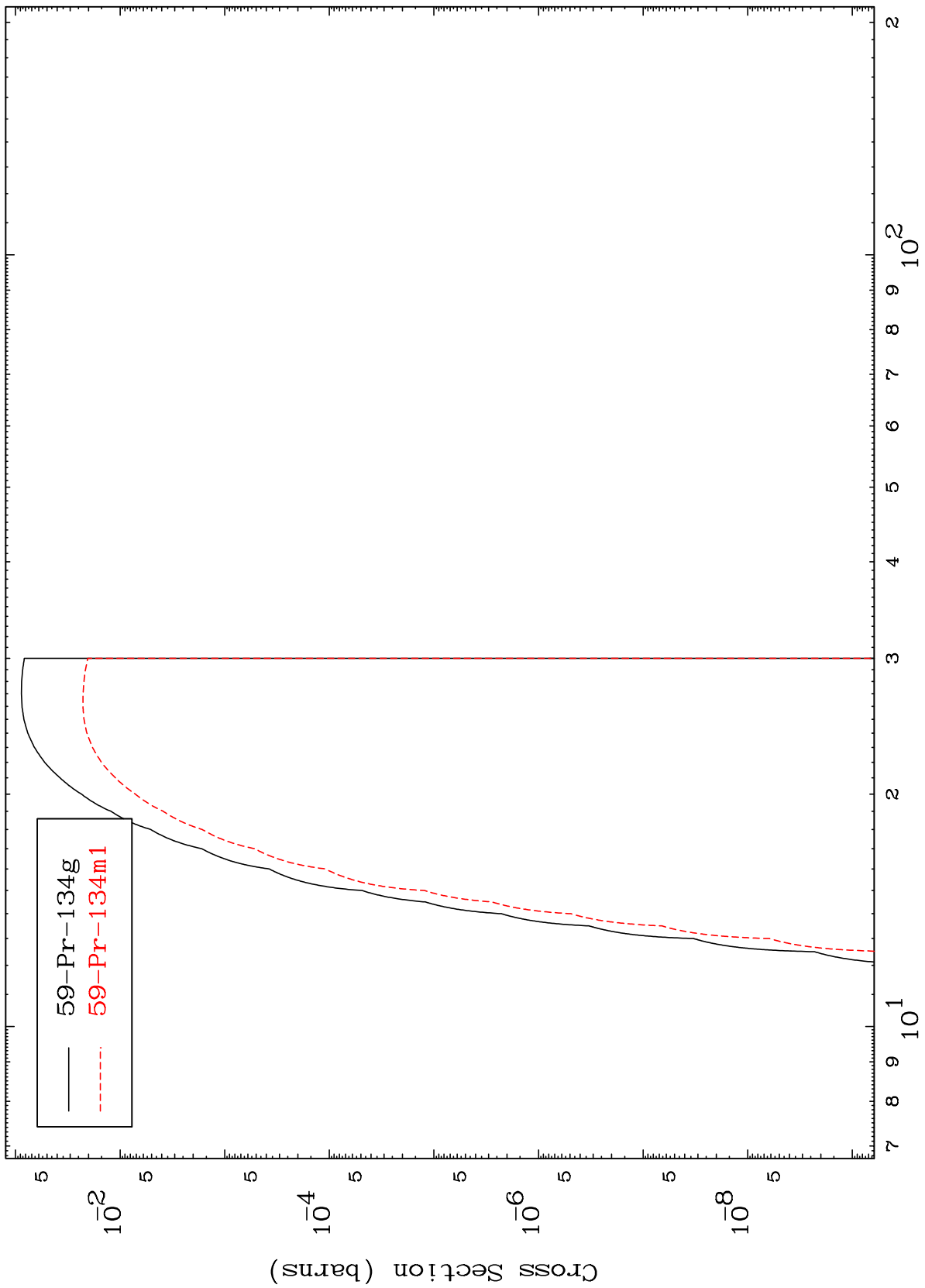


MAT 6117

(n,2n) p

61-Pm-136

Radionuclide Production Cross Section



59-Pr-134g
59-Pr-134m1

30

Incident Energy (MeV)

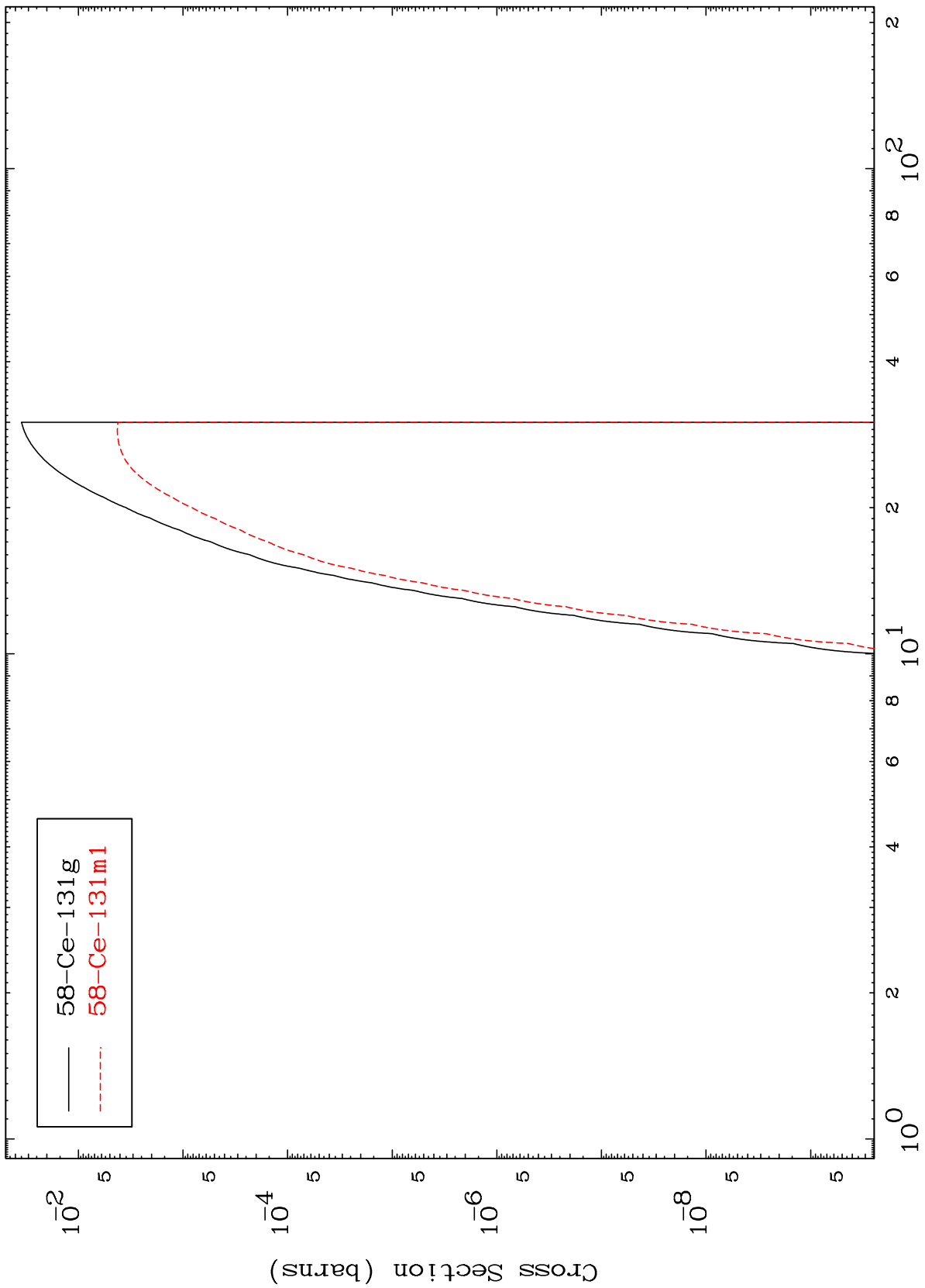
61-Pm-136

MAT 6117

(n,n') p α

61-Pm-136

Radionuclide Production Cross Section



31

Incident Energy (MeV)

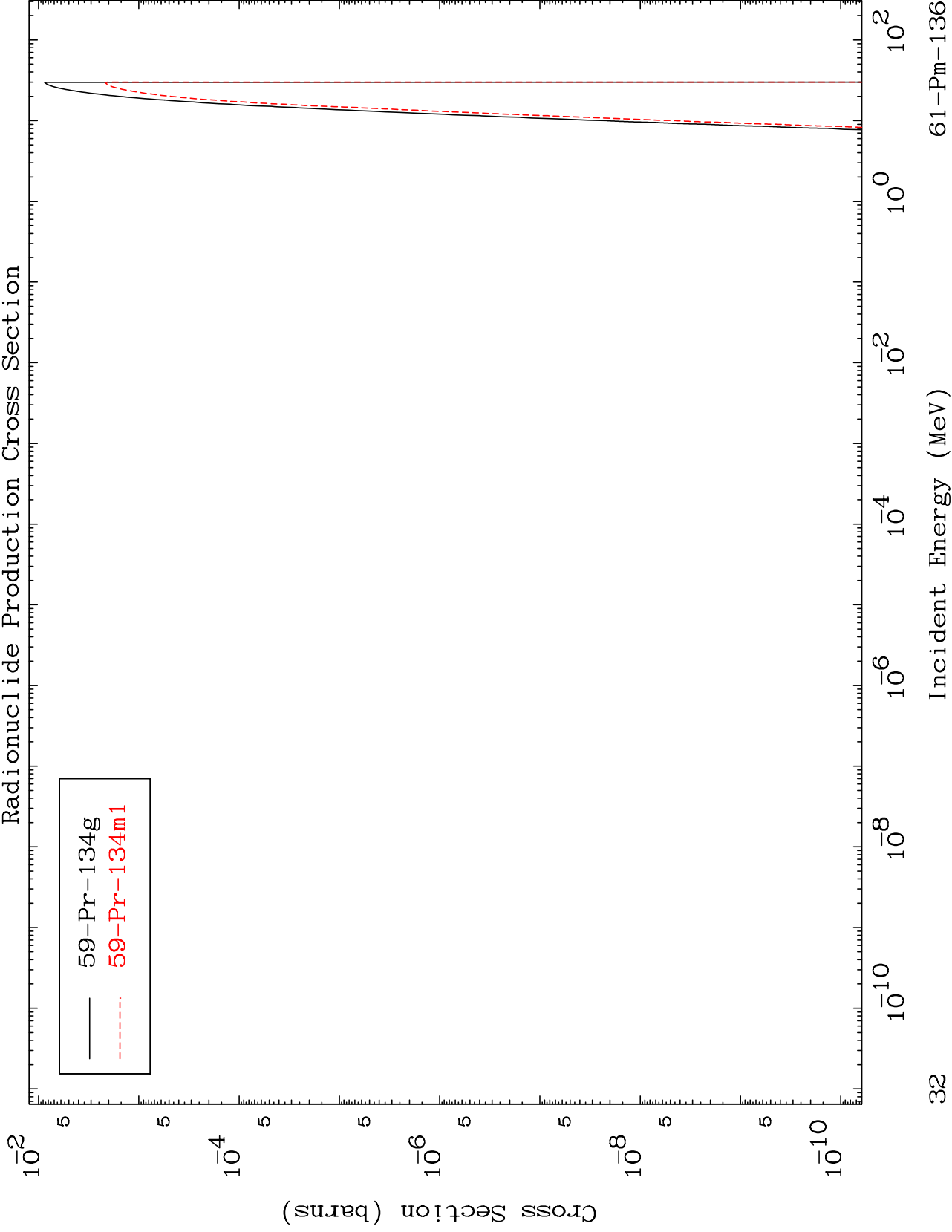
61-Pm-136

MAT 61117

(n,He-3)

61-Pm-136

Radionuclide Production Cross Section

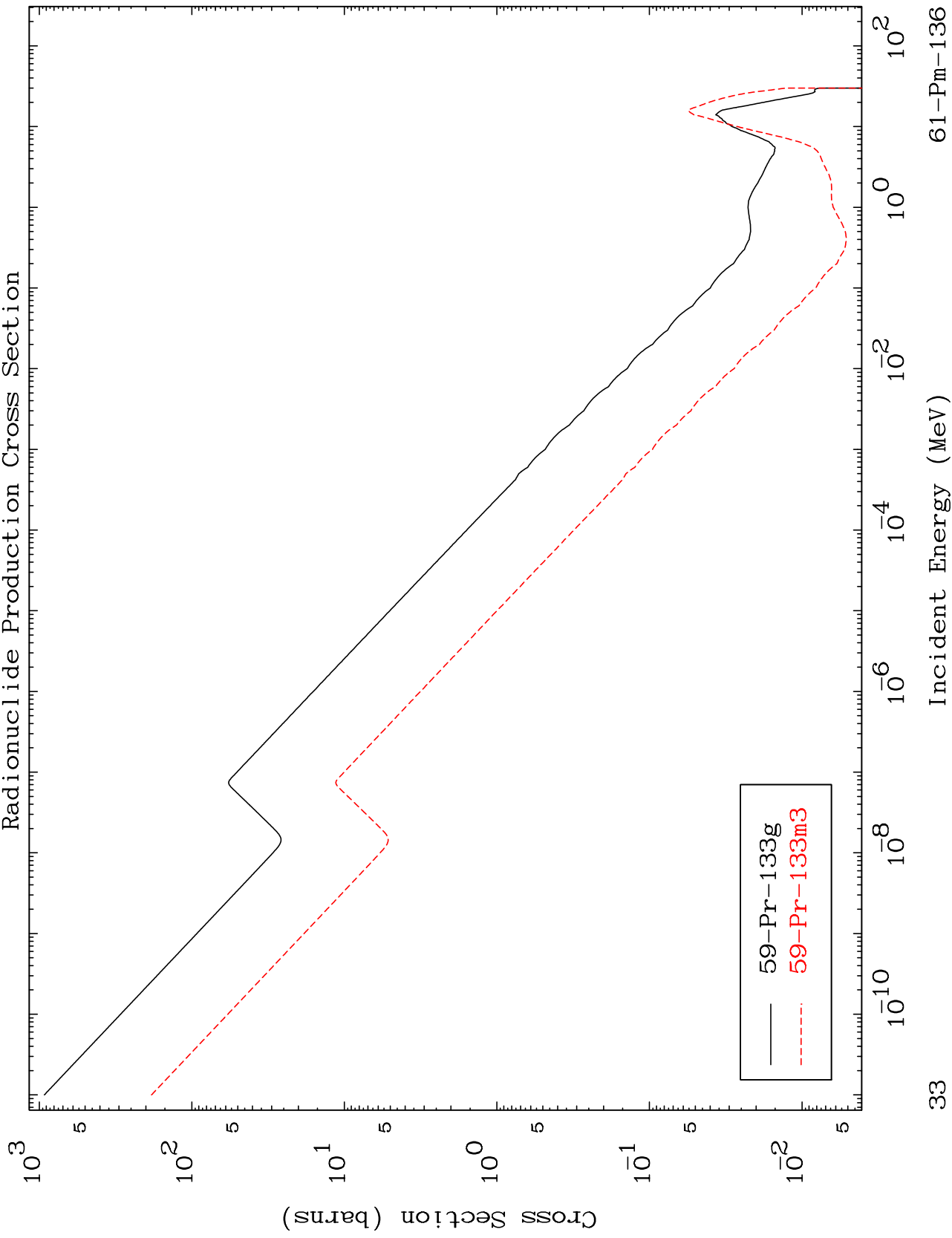


MAT 61117

61-Pm-136

Radionuclide Production Cross Section

(n, α)



33

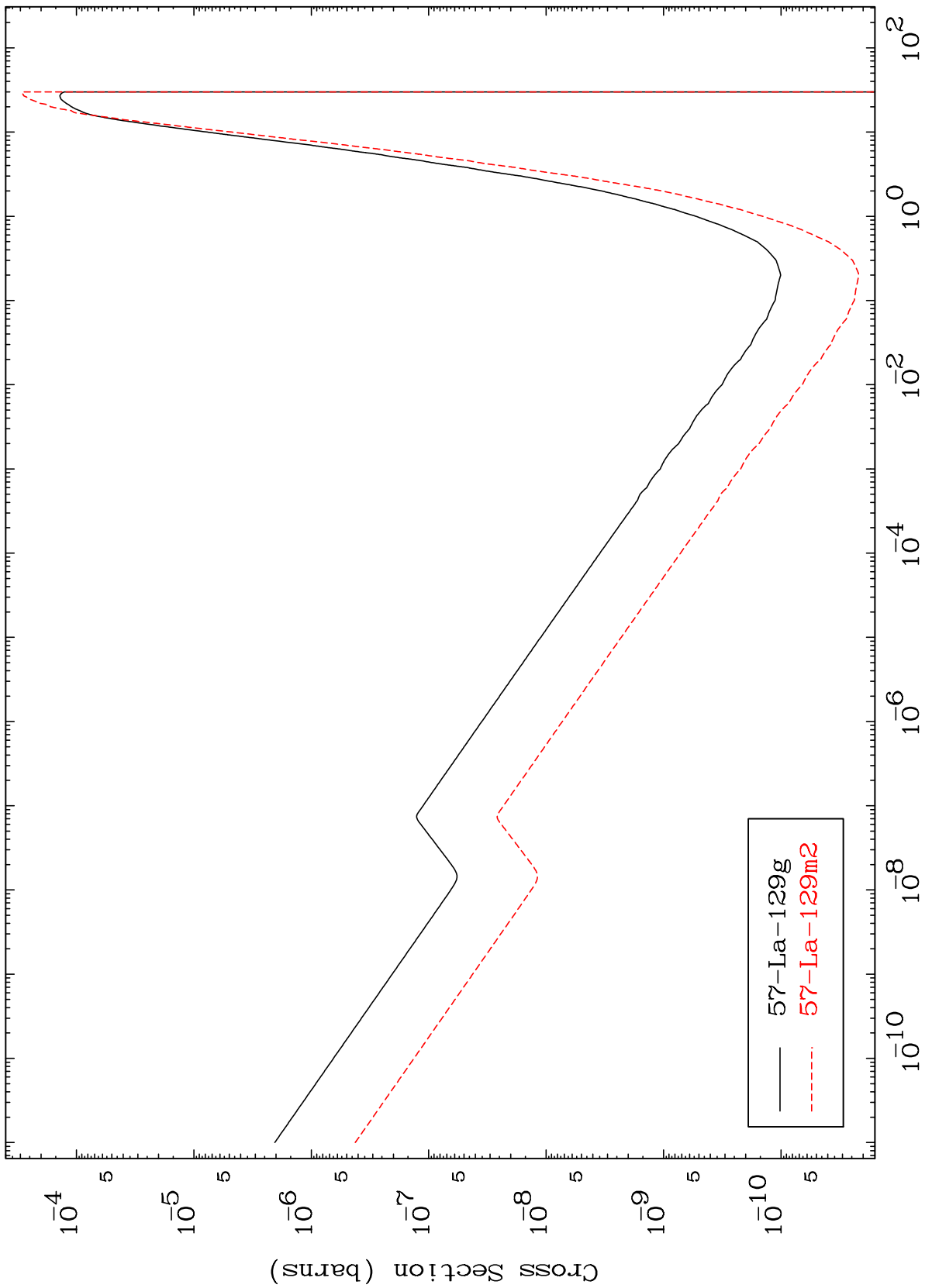
61-Pm-136

MAT 6117

(n,2α)

61-Pm-136

Radionuclide Production Cross Section

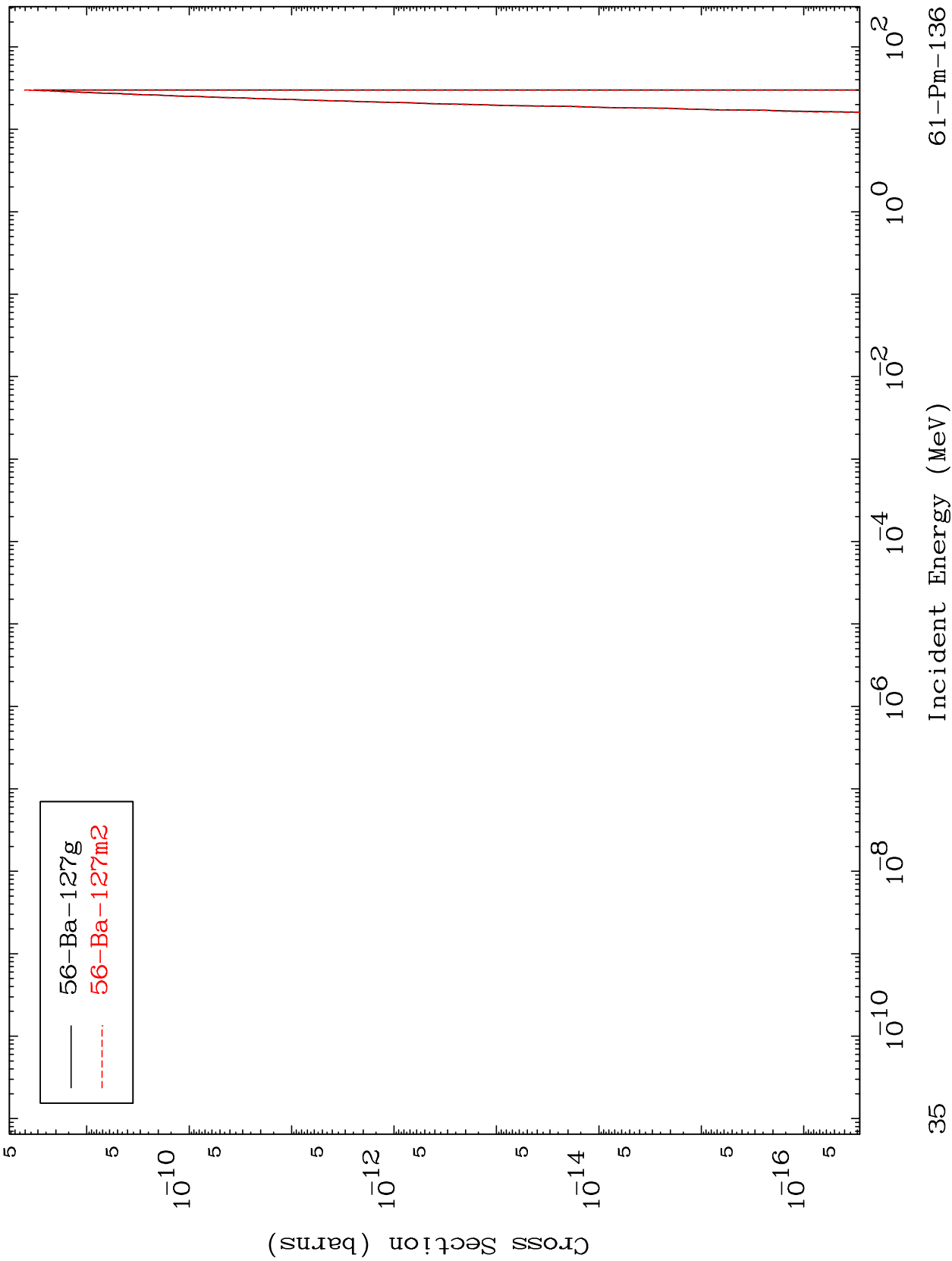


MAT 61117

(n,d) 2 α

61-Pm-136

Radionuclide Production Cross Section



35

Incident Energy (MeV)

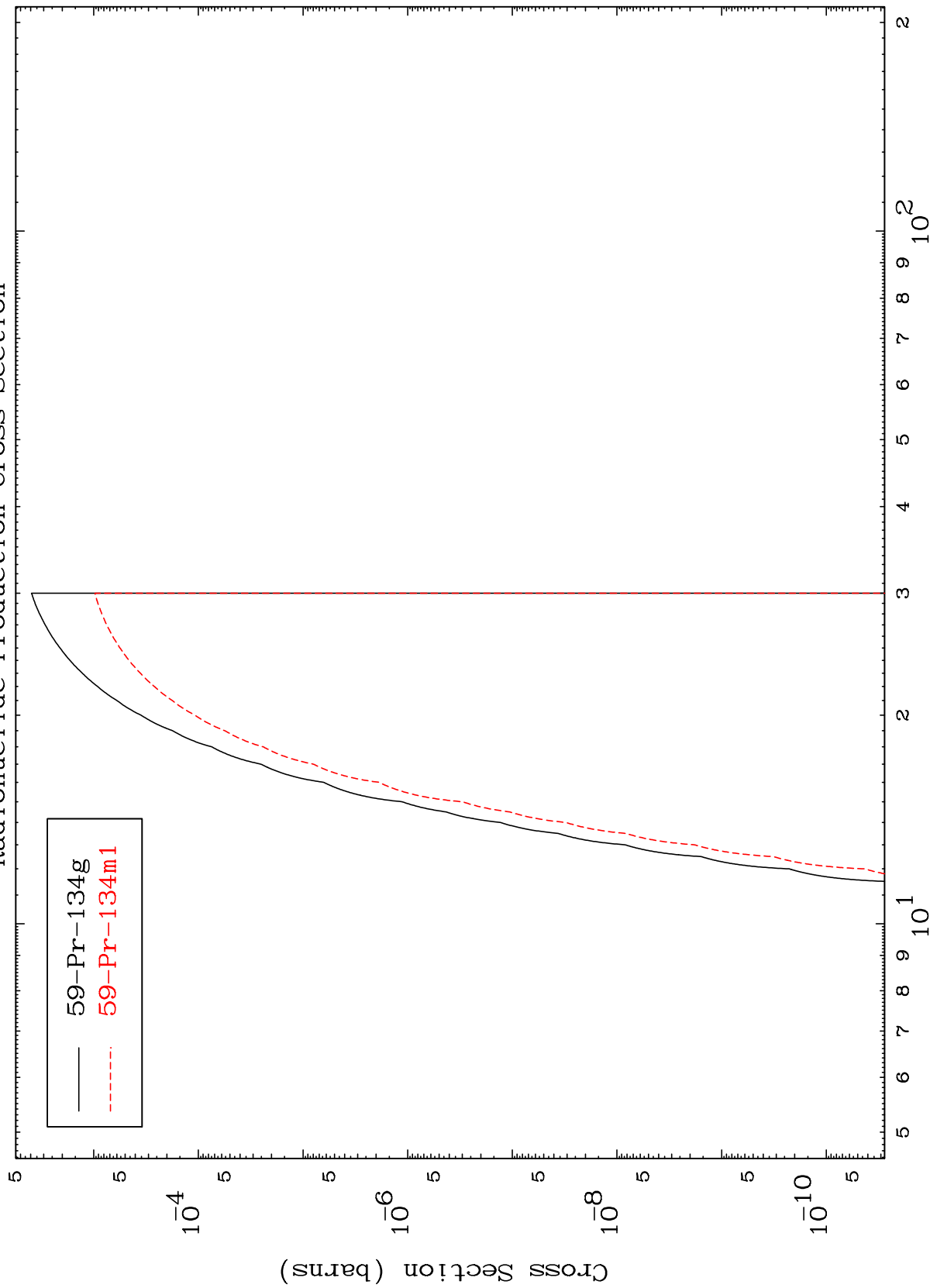
61-Pm-136

MAT 6117

(n,p) d

61-Pm-136

Radionuclide Production Cross Section



59-Pr-134g
59-Pr-134m1

36

Incident Energy (MeV)

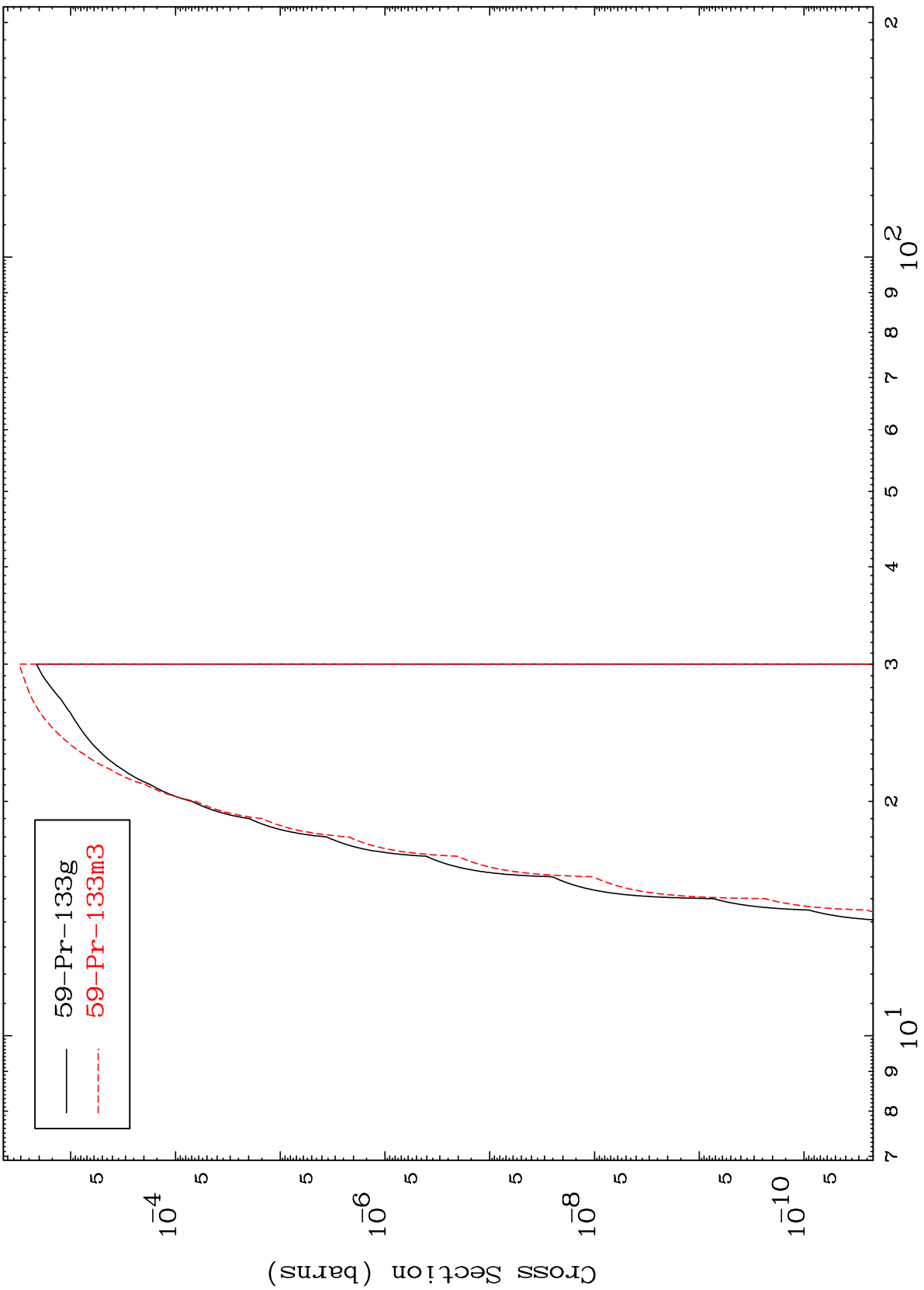
61-Pm-136

MAT 6117

(n,p) t

61-Pm-136

Radionuclide Production Cross Section



59-Pr-133g
59-Pr-133m3

37

Incident Energy (MeV)

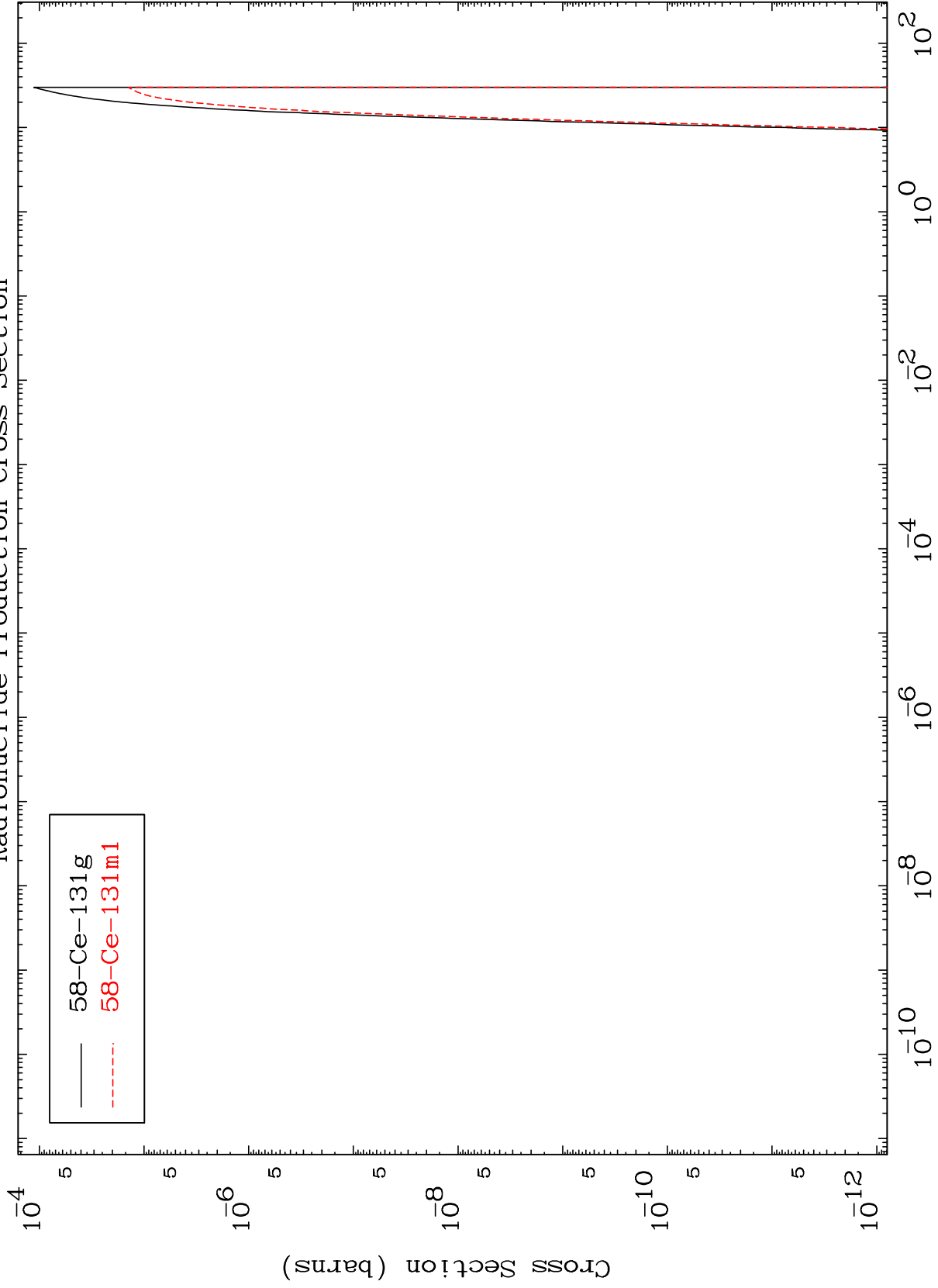
61-Pm-136

MAT 6117

(n,d) α

61-Pm-136

Radionuclide Production Cross Section



58-Ce-131g
58-Ce-131m1

Incident Energy (MeV)

61-Pm-136