

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

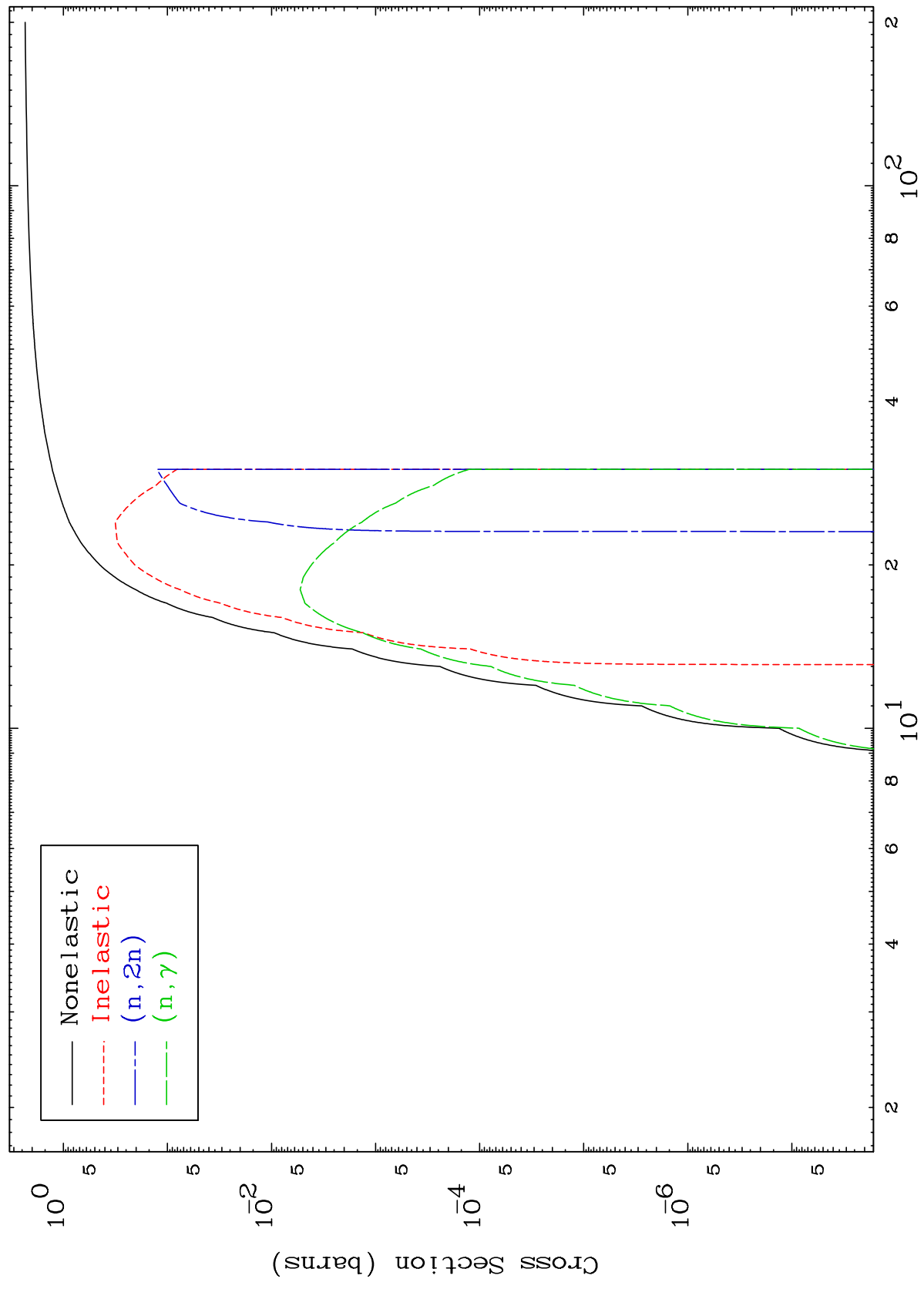
Press Mouse Button to Start

MAT 6119

0 Kelvin

Major Cross Sections

61-Pm-137



1

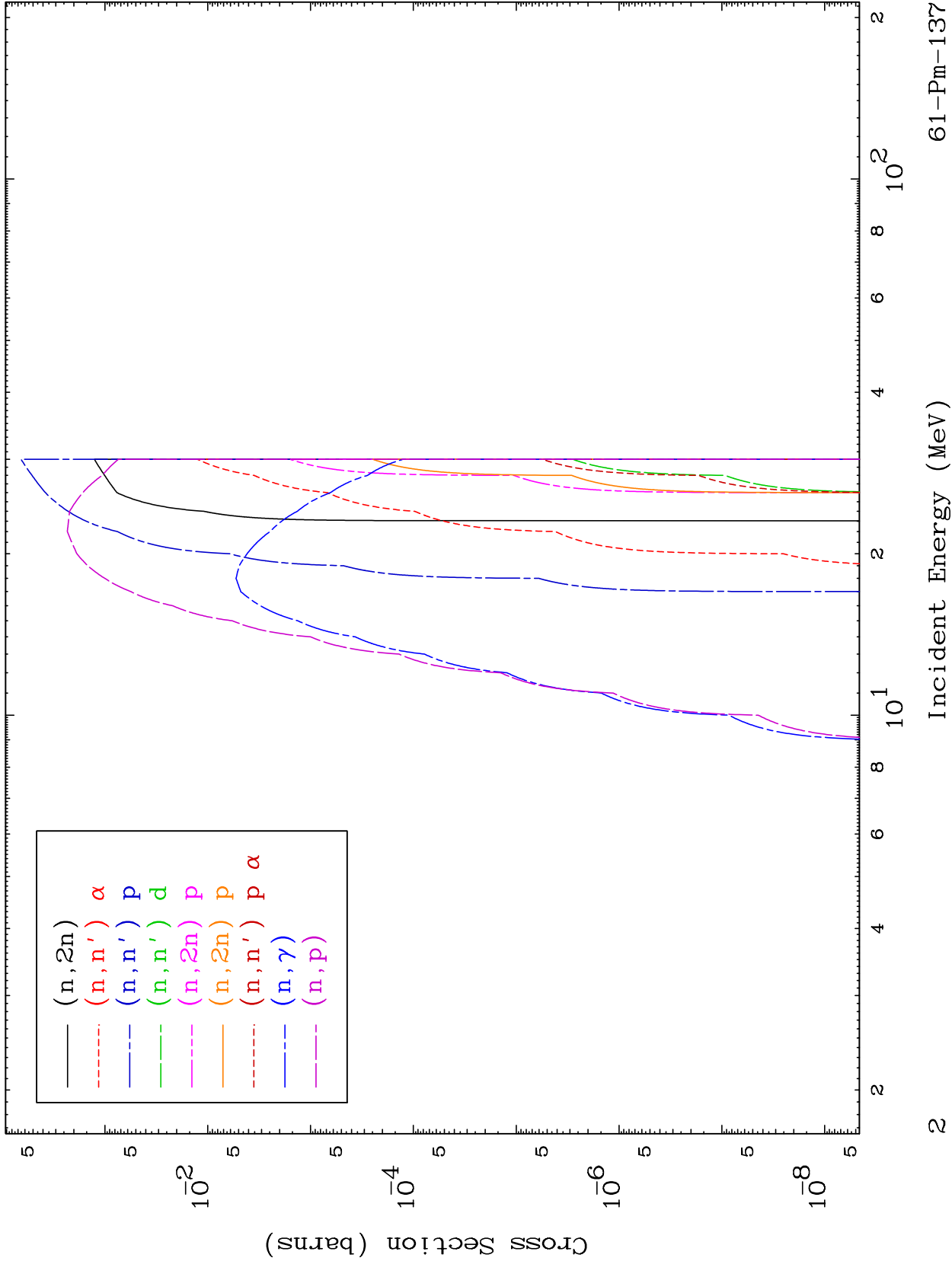
Incident Energy (MeV)

61-Pm-137

MAT 6119

α Neutron Absorption
0 Kelvin Cross Sections

61-Pm-137



61-Pm-137

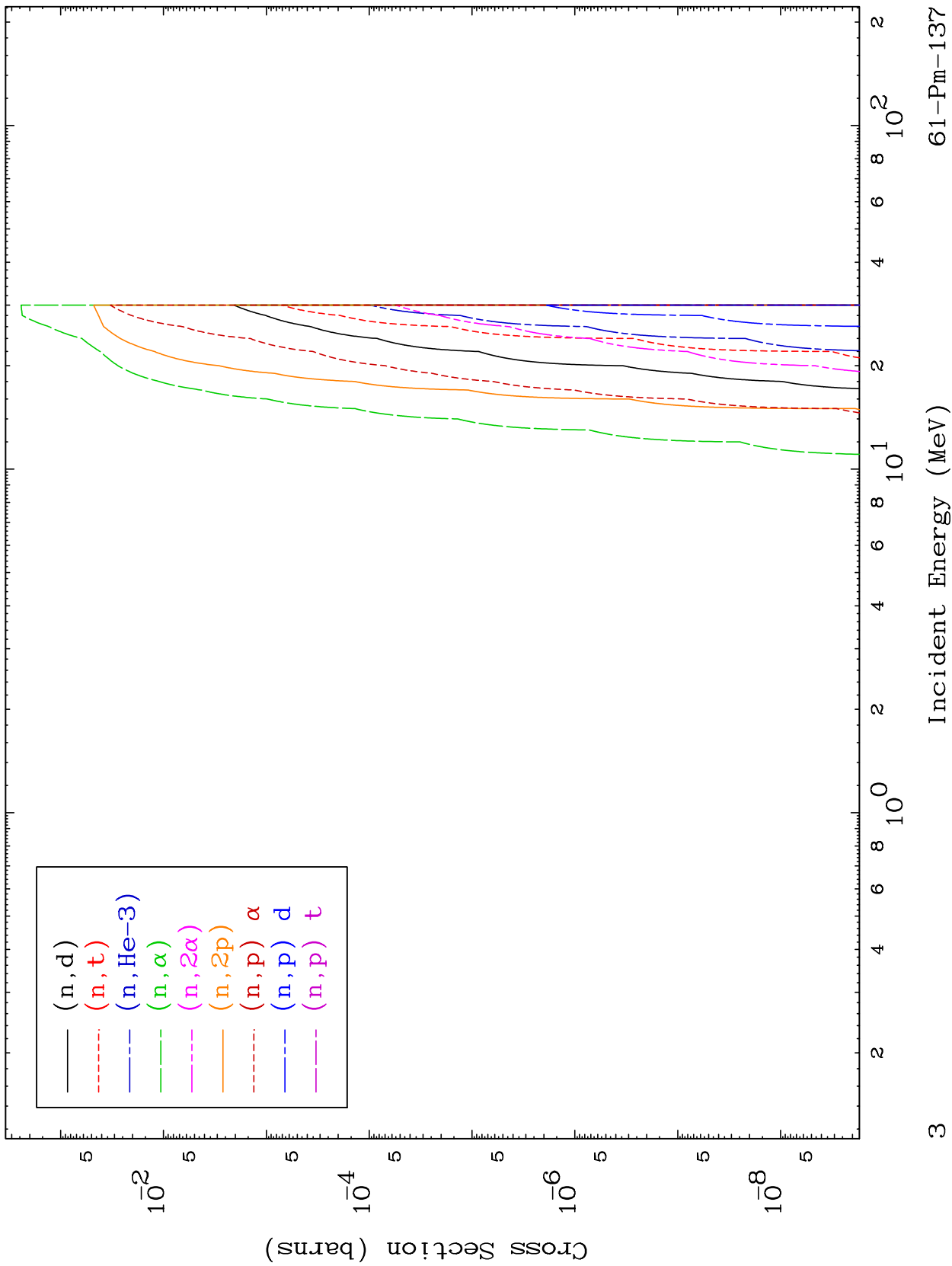
Incident Energy (MeV)

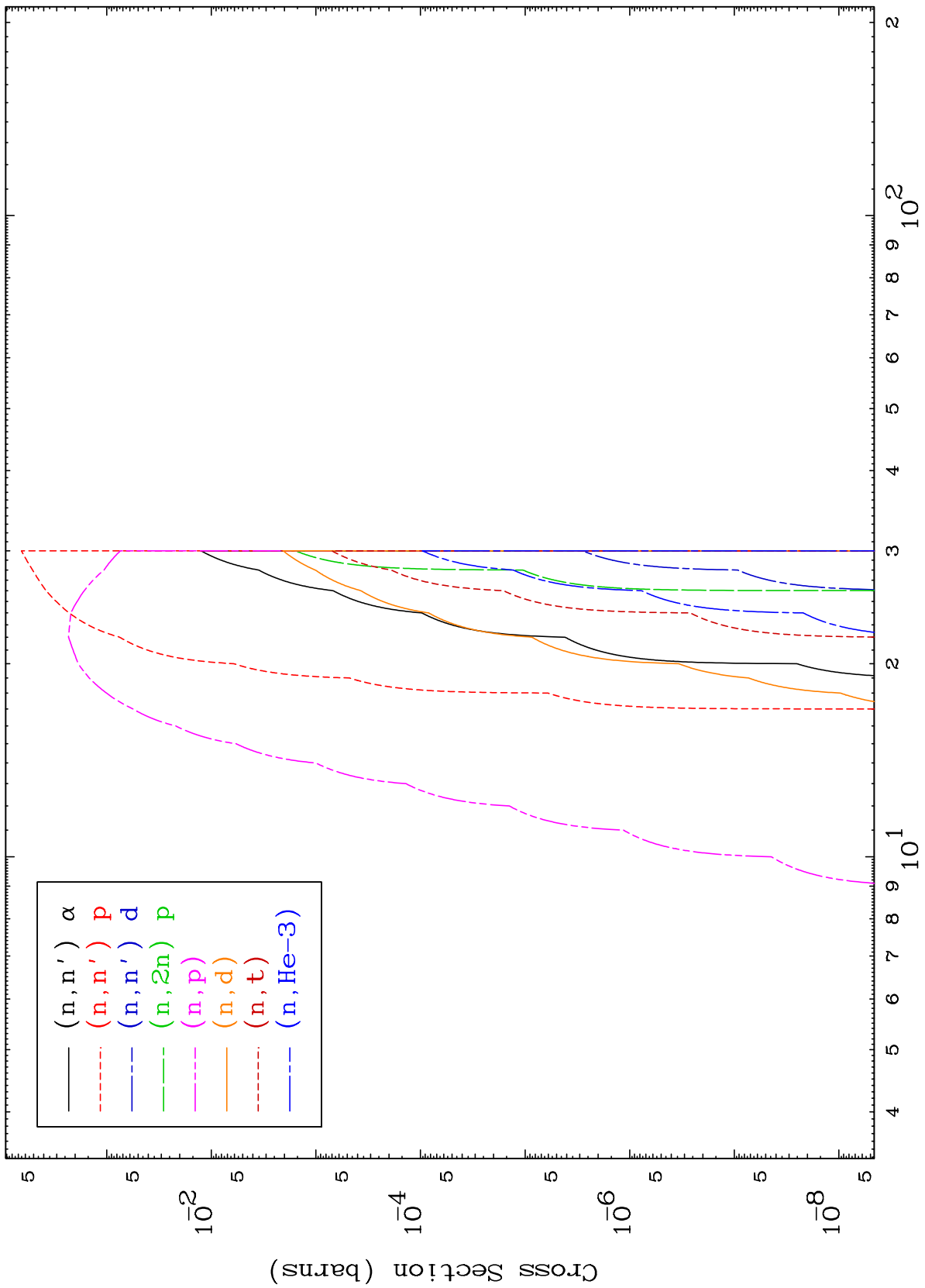
2

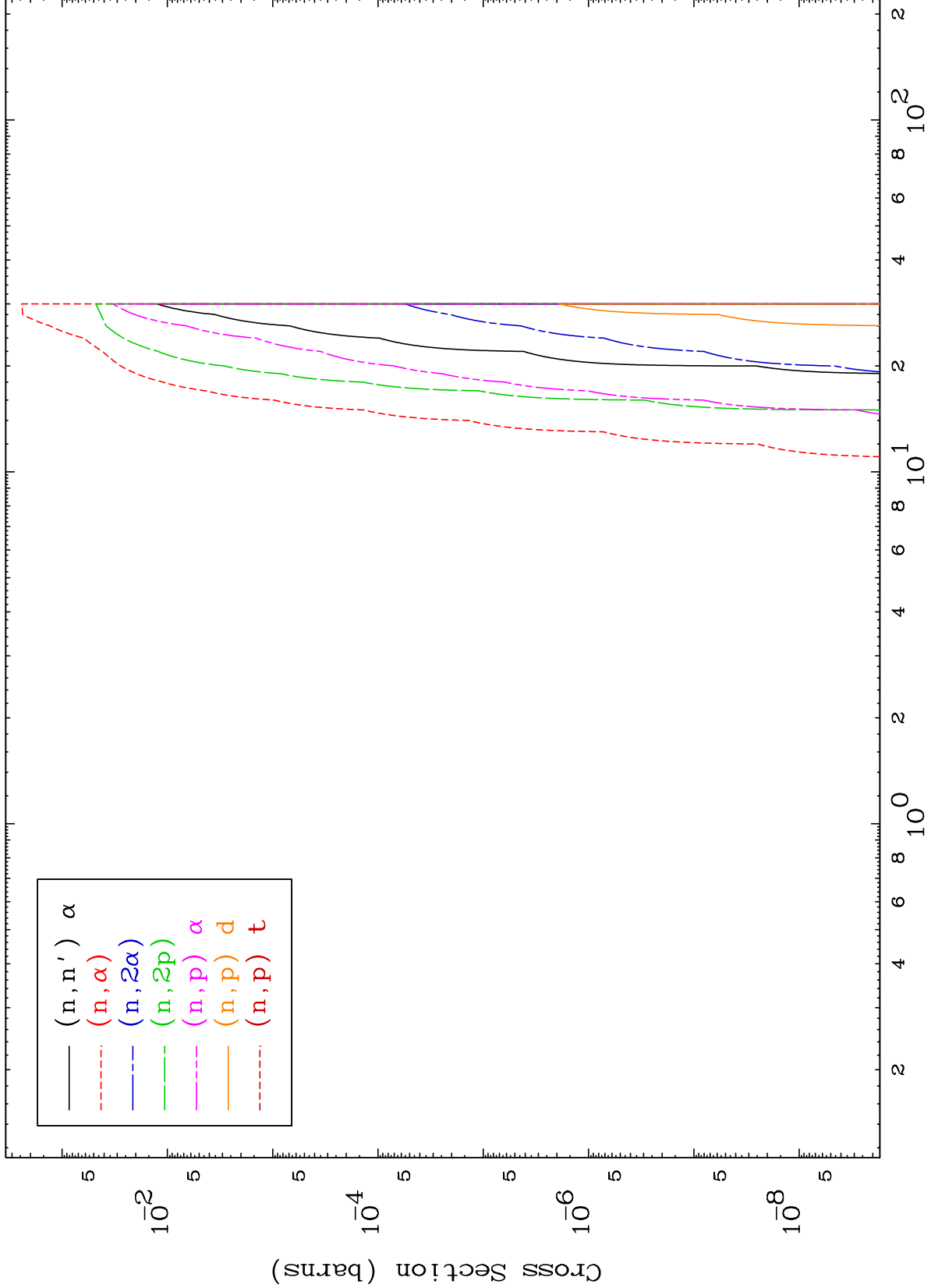
MAT 6119

α Neutron Absorption
0 Kelvin Cross Sections

61-Pm-137



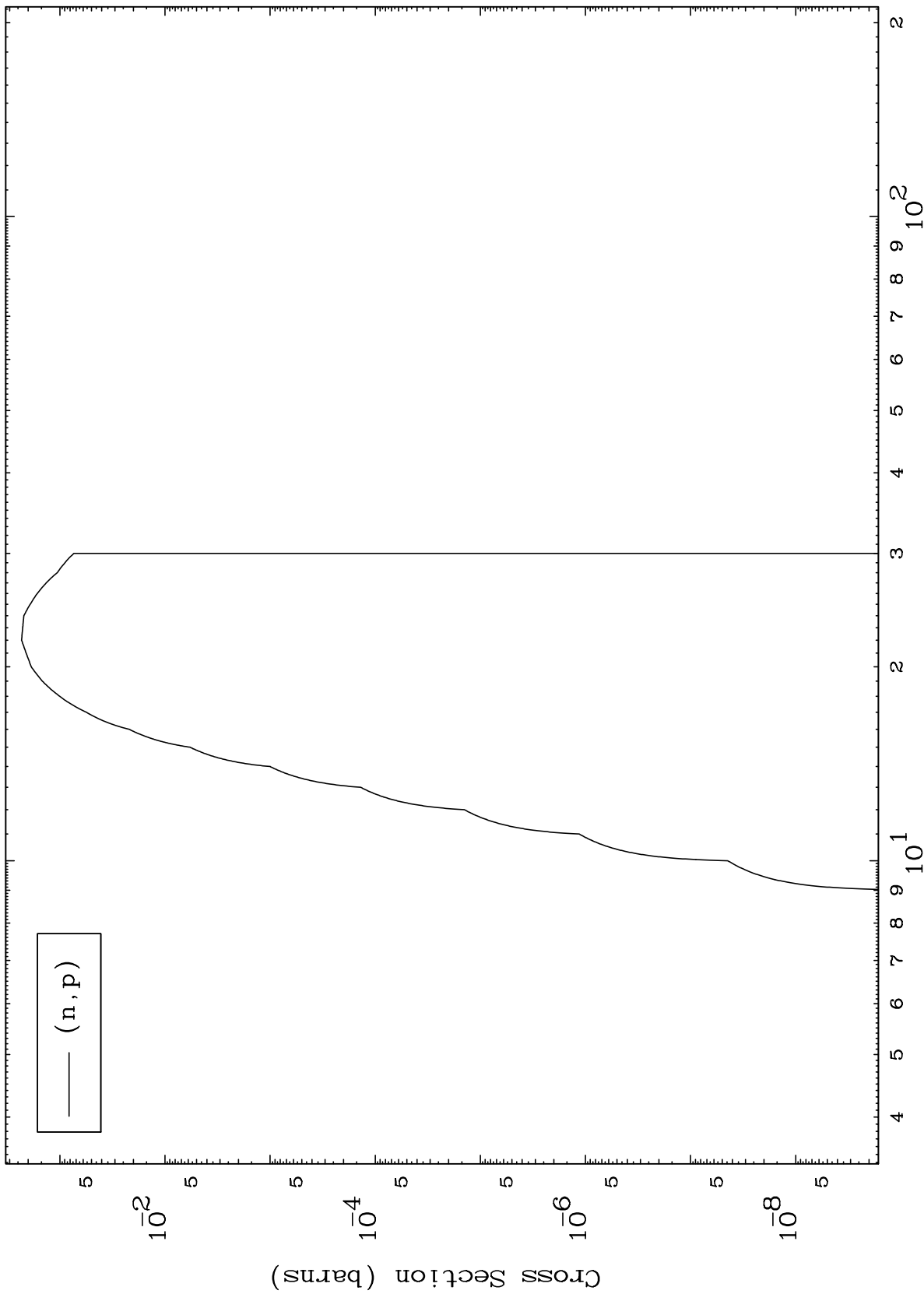




MAT 6119

61-Pm-137

(α, p) Levels
0 Kelvin Cross Sections



(n, p)

61-Pm-137

Incident Energy (MeV)

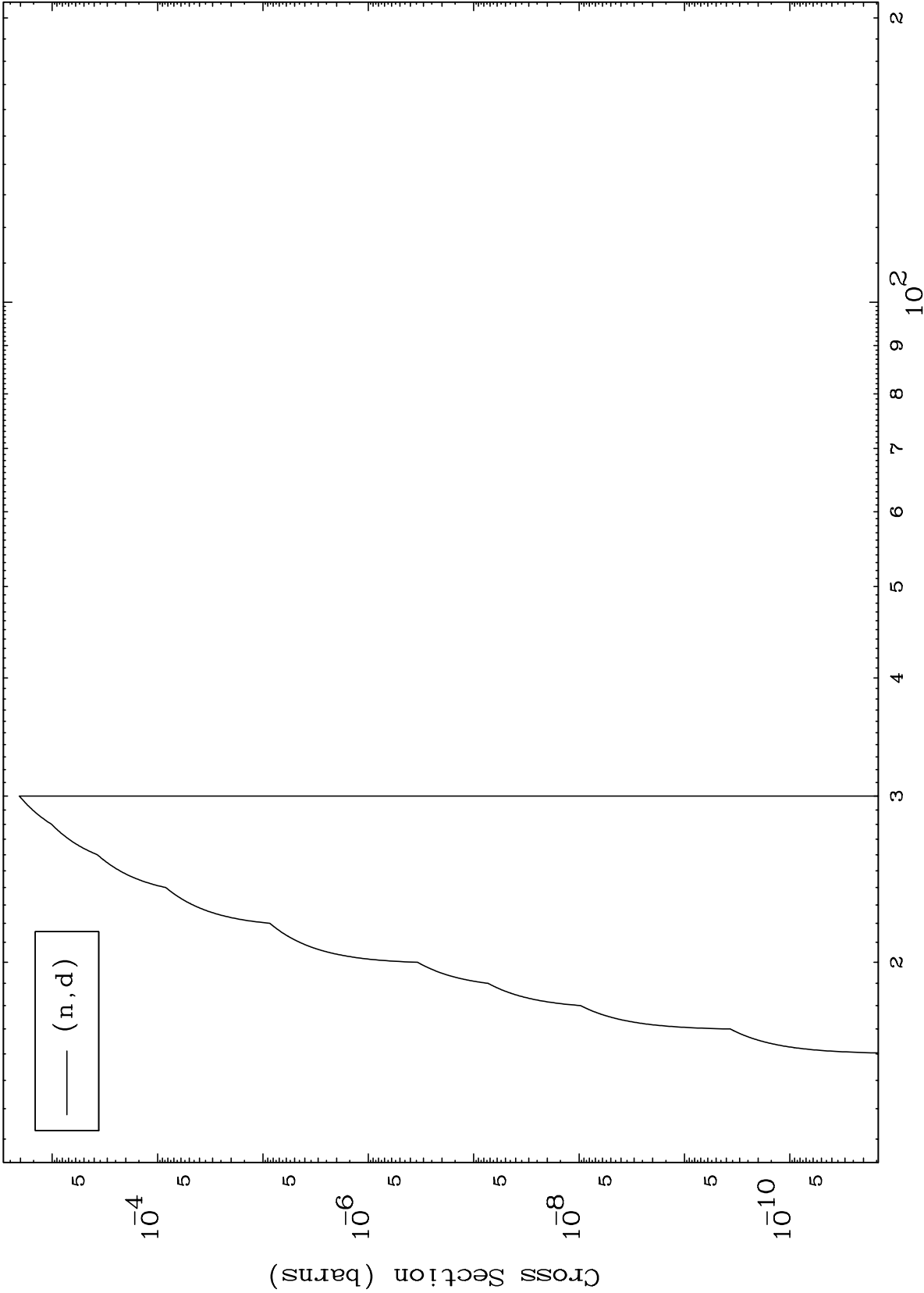
6

MAT 6119

(α, d) Levels

61-Pm-137

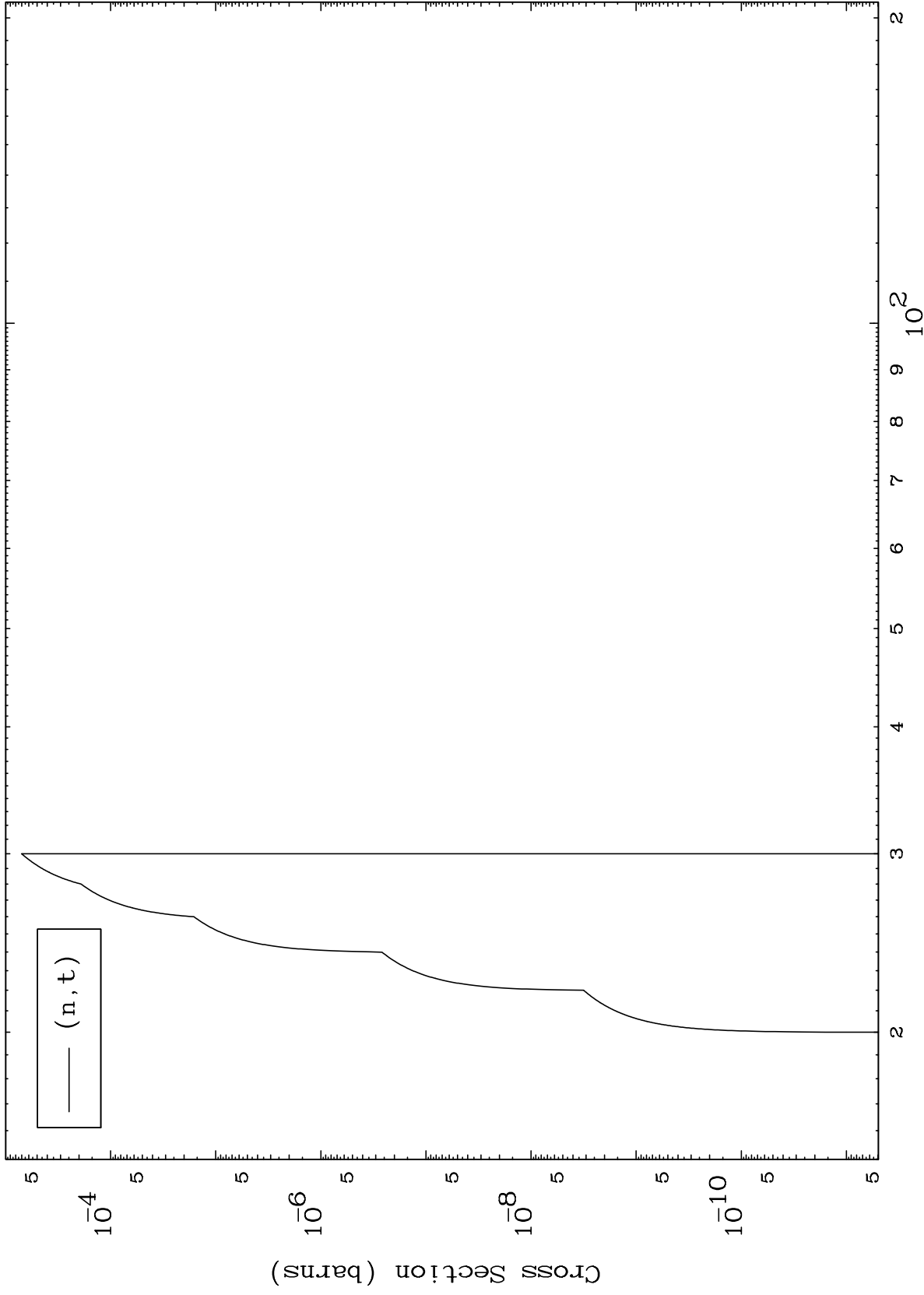
0 Kelvin Cross Sections



Incident Energy (MeV)

61-Pm-137

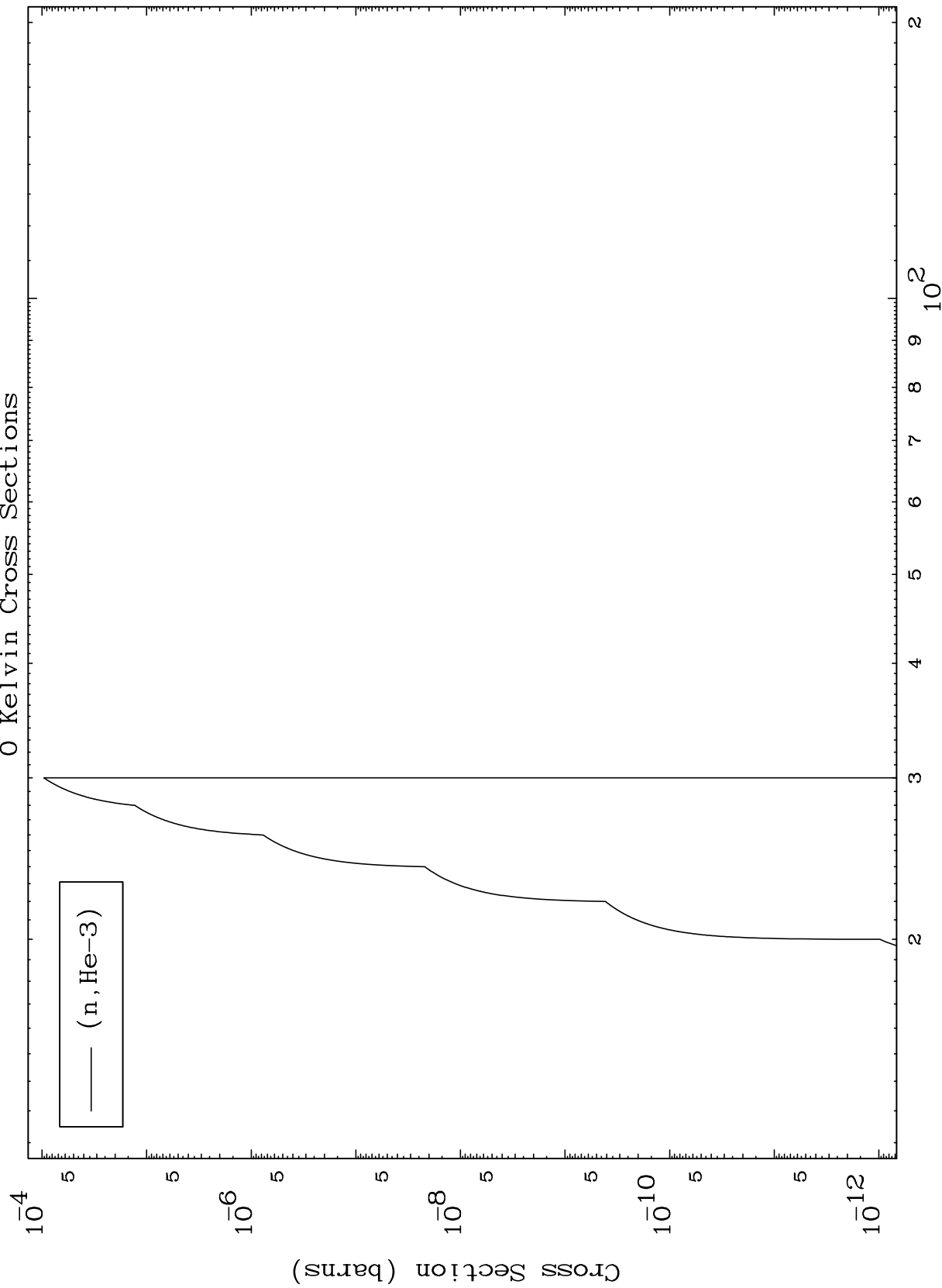
7



MAT 6119

61-Pm-137

($\alpha, \text{He}3$) Levels
0 Kelvin Cross Sections



61-Pm-137

Incident Energy (MeV)

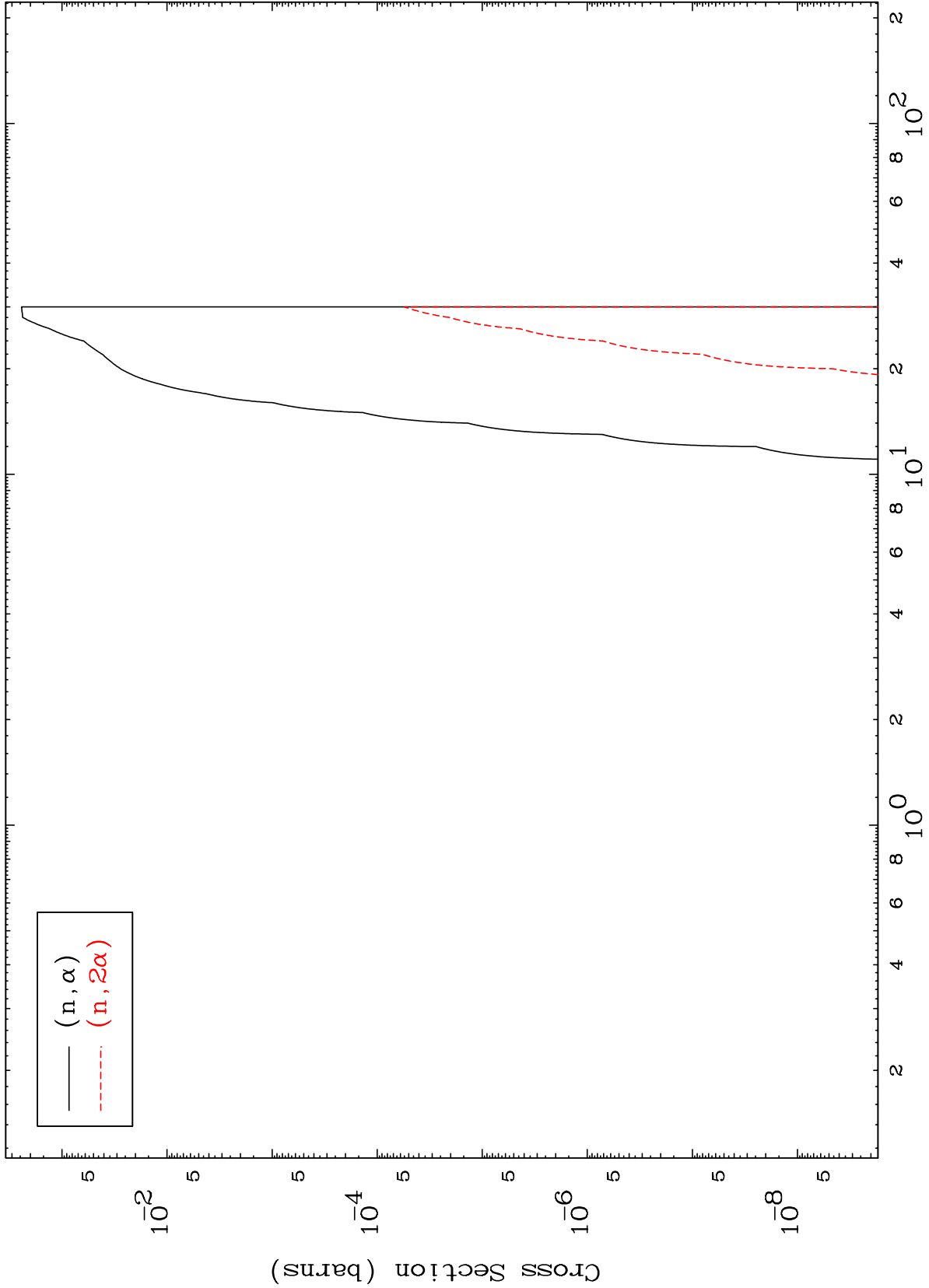
9

MAT 6119

(α, α) Levels

61-Pm-137

0 Kelvin Cross Sections



10

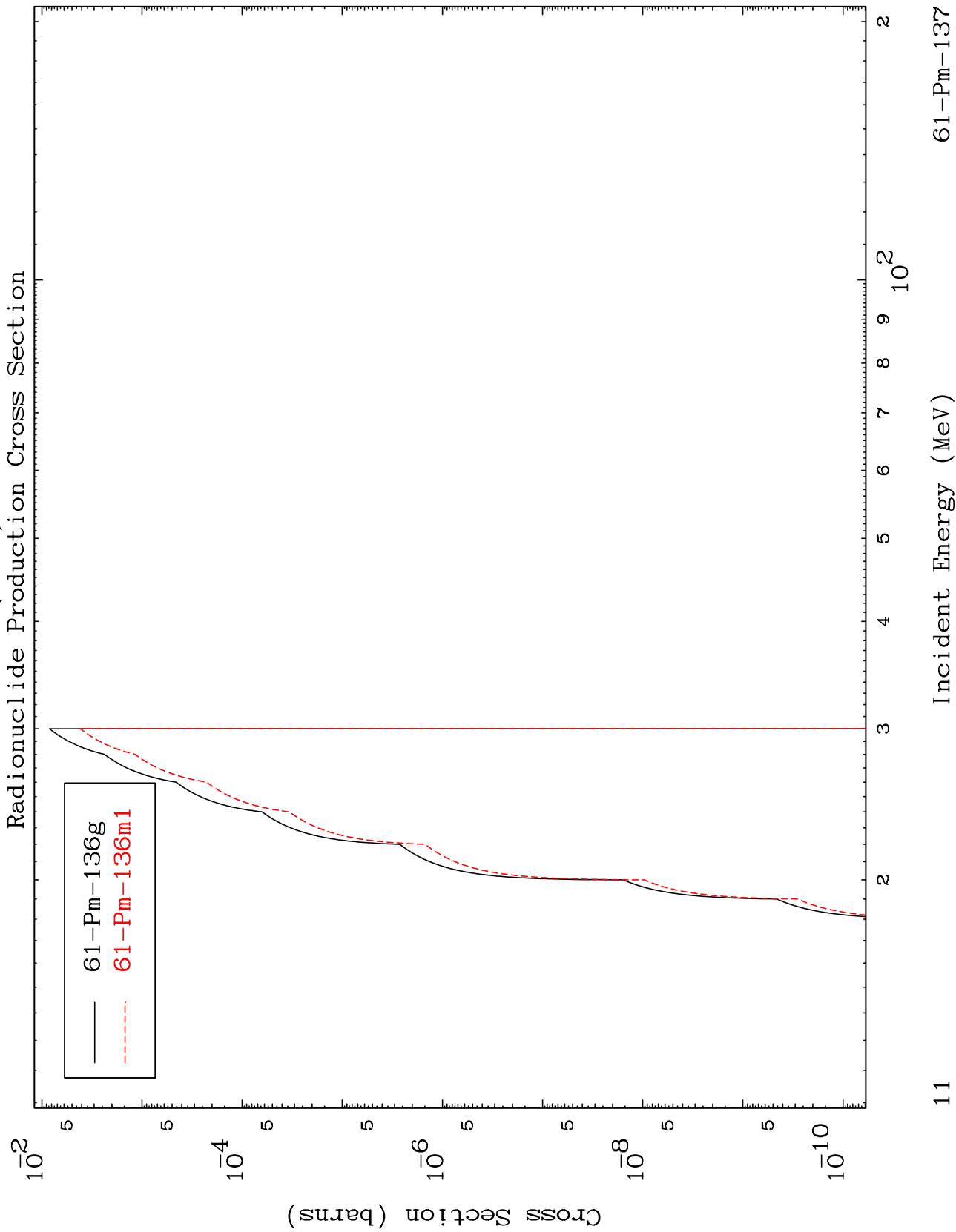
Incident Energy (MeV)

61-Pm-137

MAT 6119

$(n, n') \alpha$

61-Pm-137

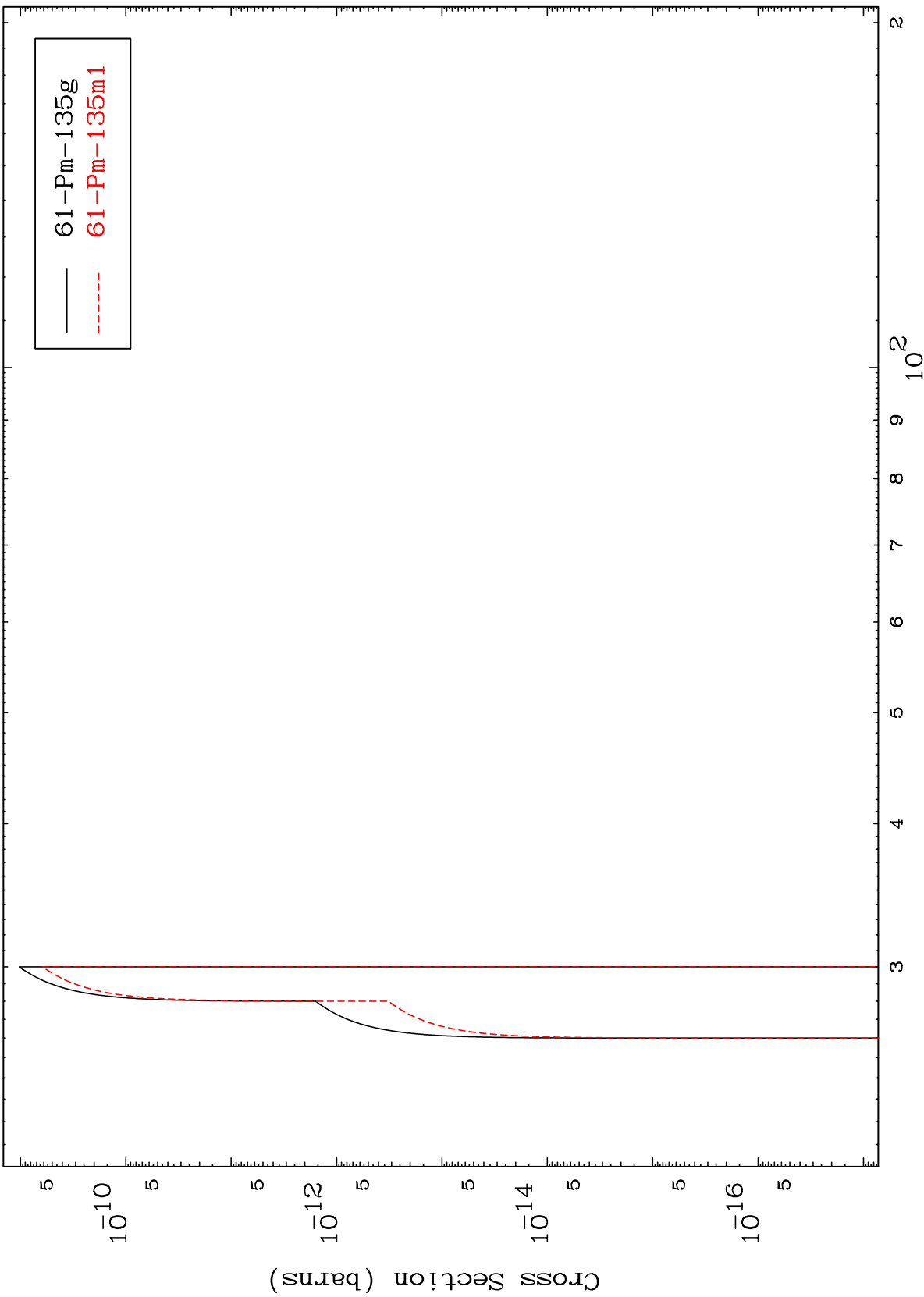


MAT 6119

(n,2n) α

61-Pm-137

Radionuclide Production Cross Section

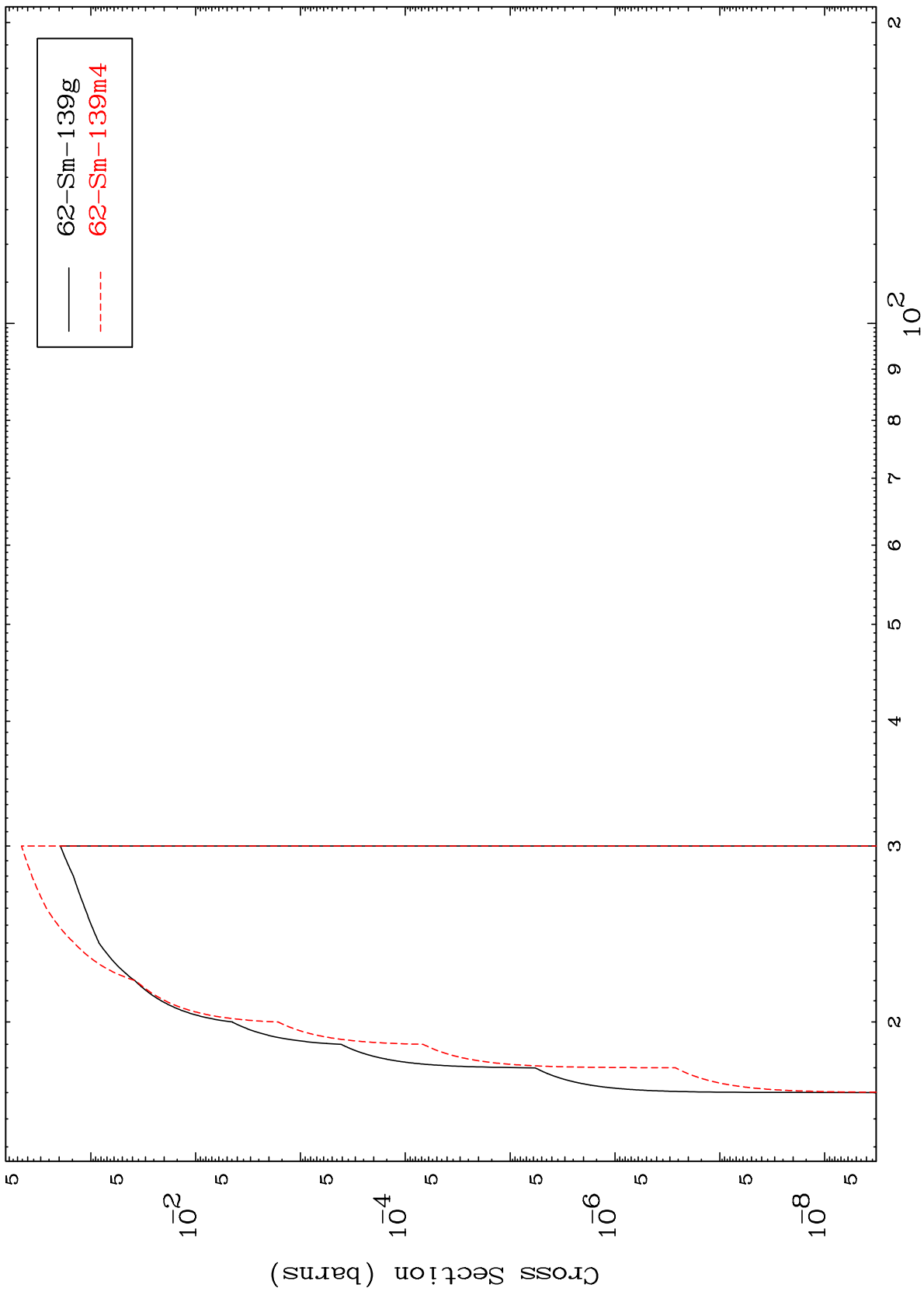


12

Incident Energy (MeV)

61-Pm-137

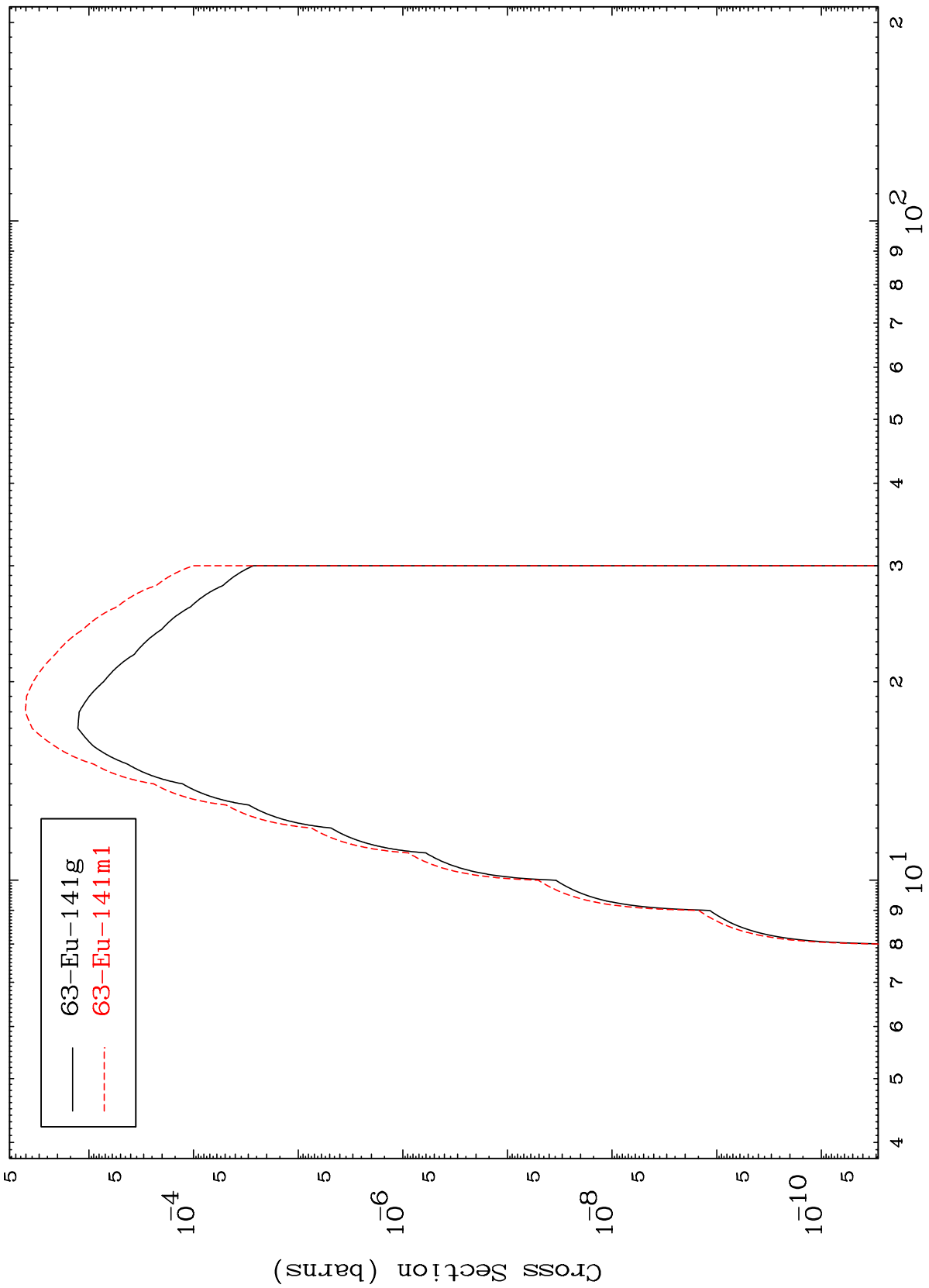
Radionuclide Production Cross Section



MAT 6119

61-Pm-137

(n, γ)
Radionuclide Production Cross Section



63-Eu-141g
63-Eu-141m1

61-Pm-137

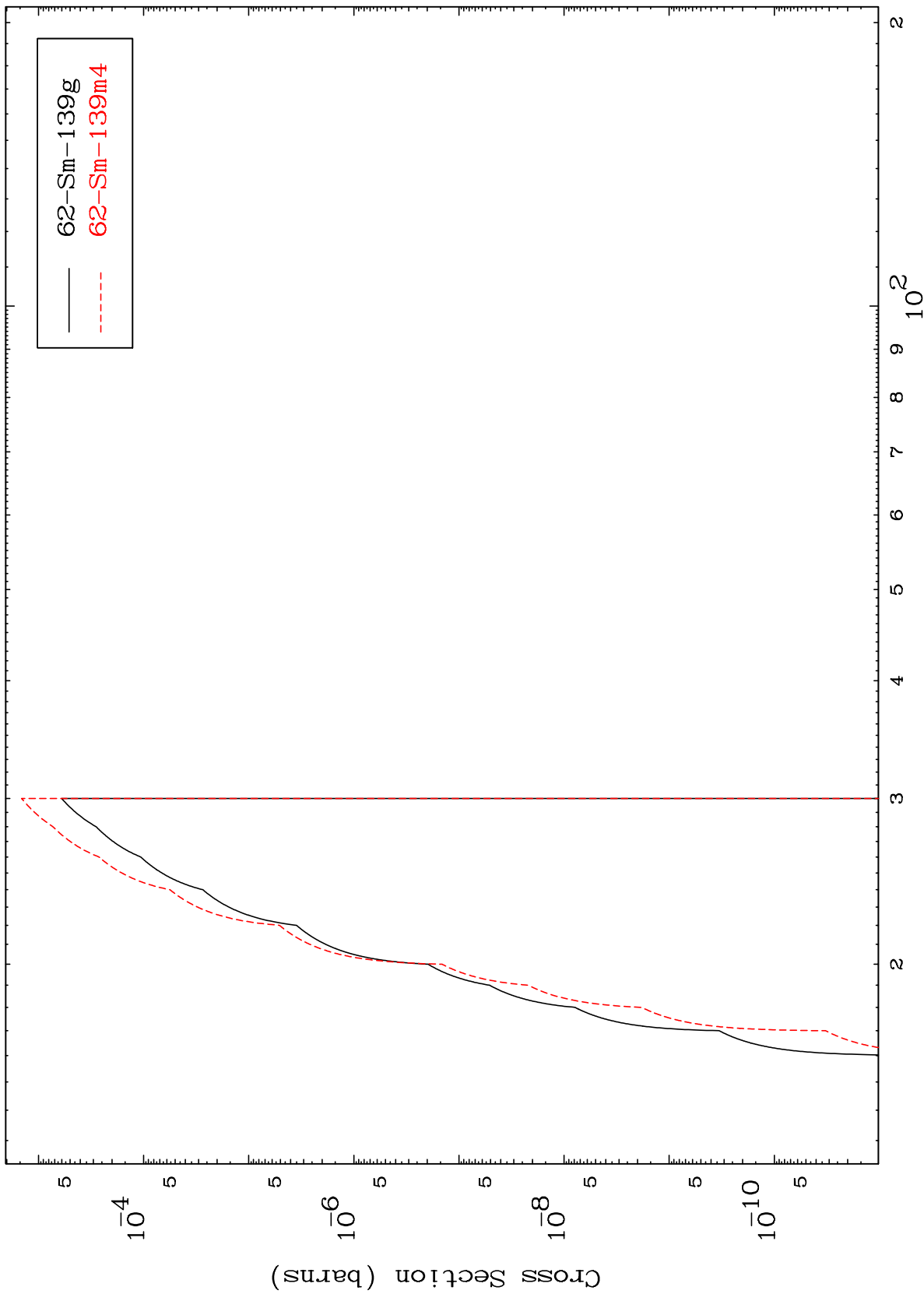
Incident Energy (MeV)

14

MAT 6119

61-Pm-137

(n,d)
Radionuclide Production Cross Section



15

61-Pm-137

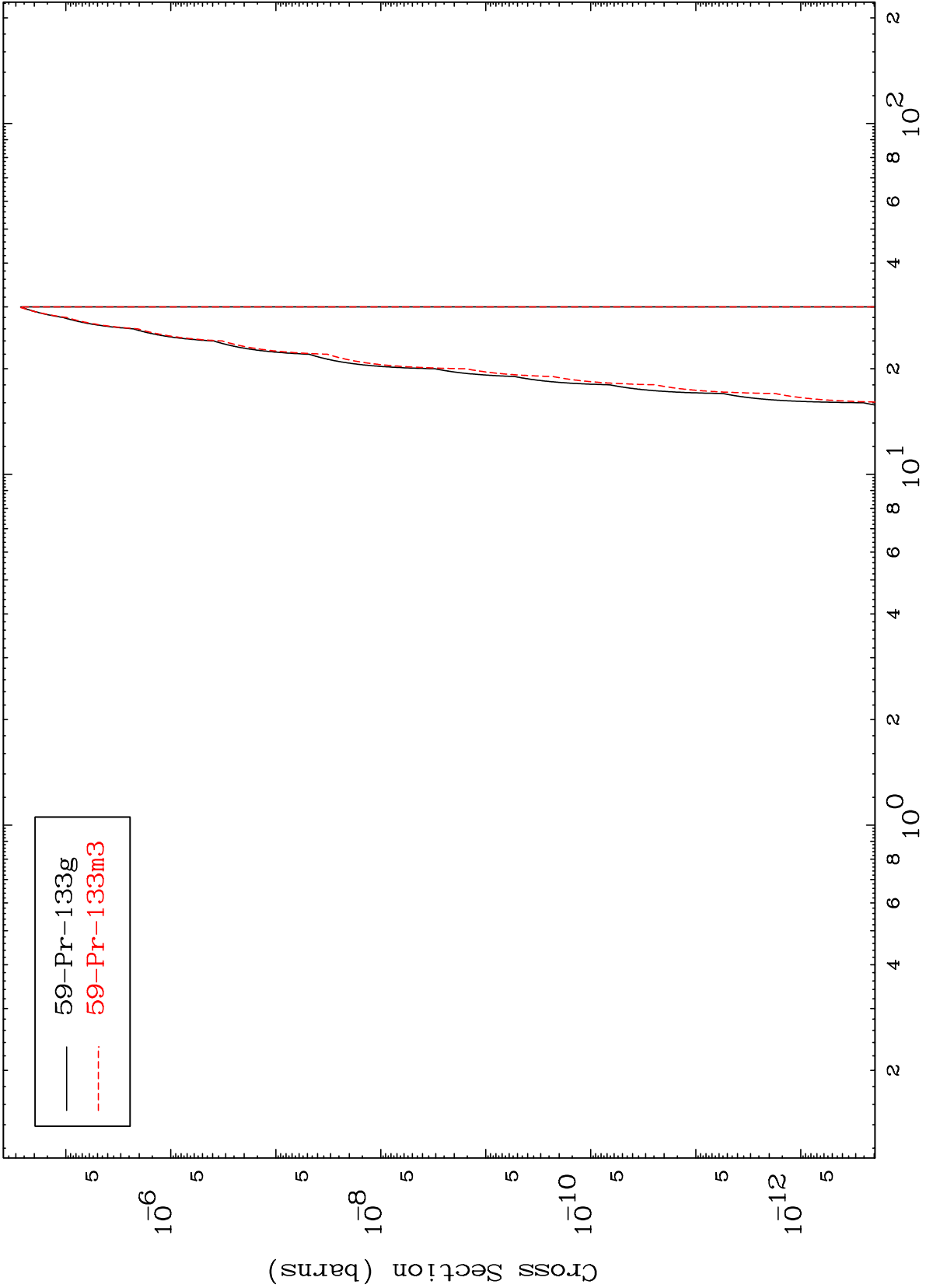
Incident Energy (MeV)

MAT 6119

(n,2α)

61-Pm-137

Radionuclide Production Cross Section

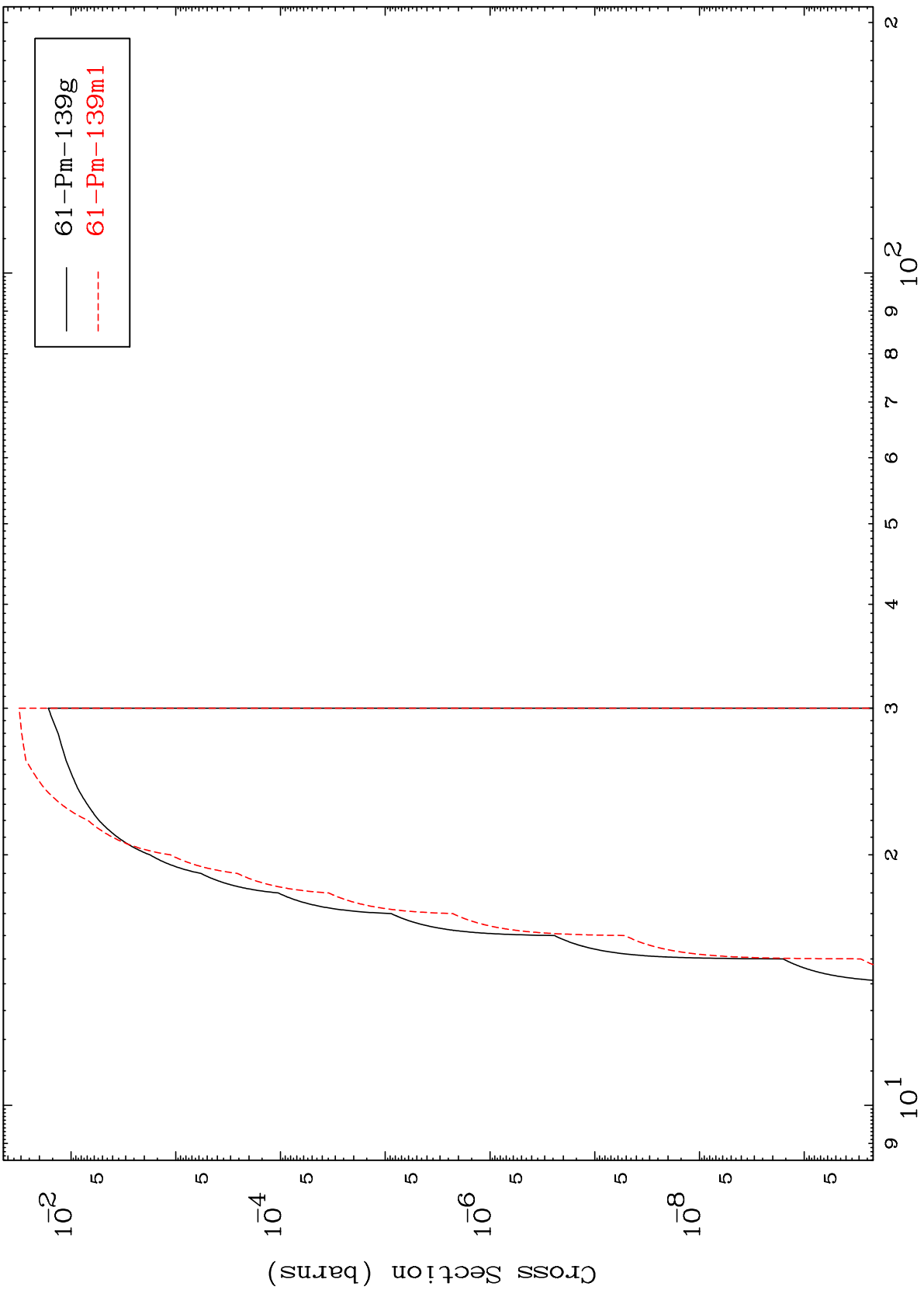


59-Pr-133g
59-Pr-133m3

MAT 6119

61-Pm-137

(n,2p)
Radionuclide Production Cross Section



61-Pm-137

Incident Energy (MeV)

17