

Program EVALPLOT
(Version 2018-1)

by

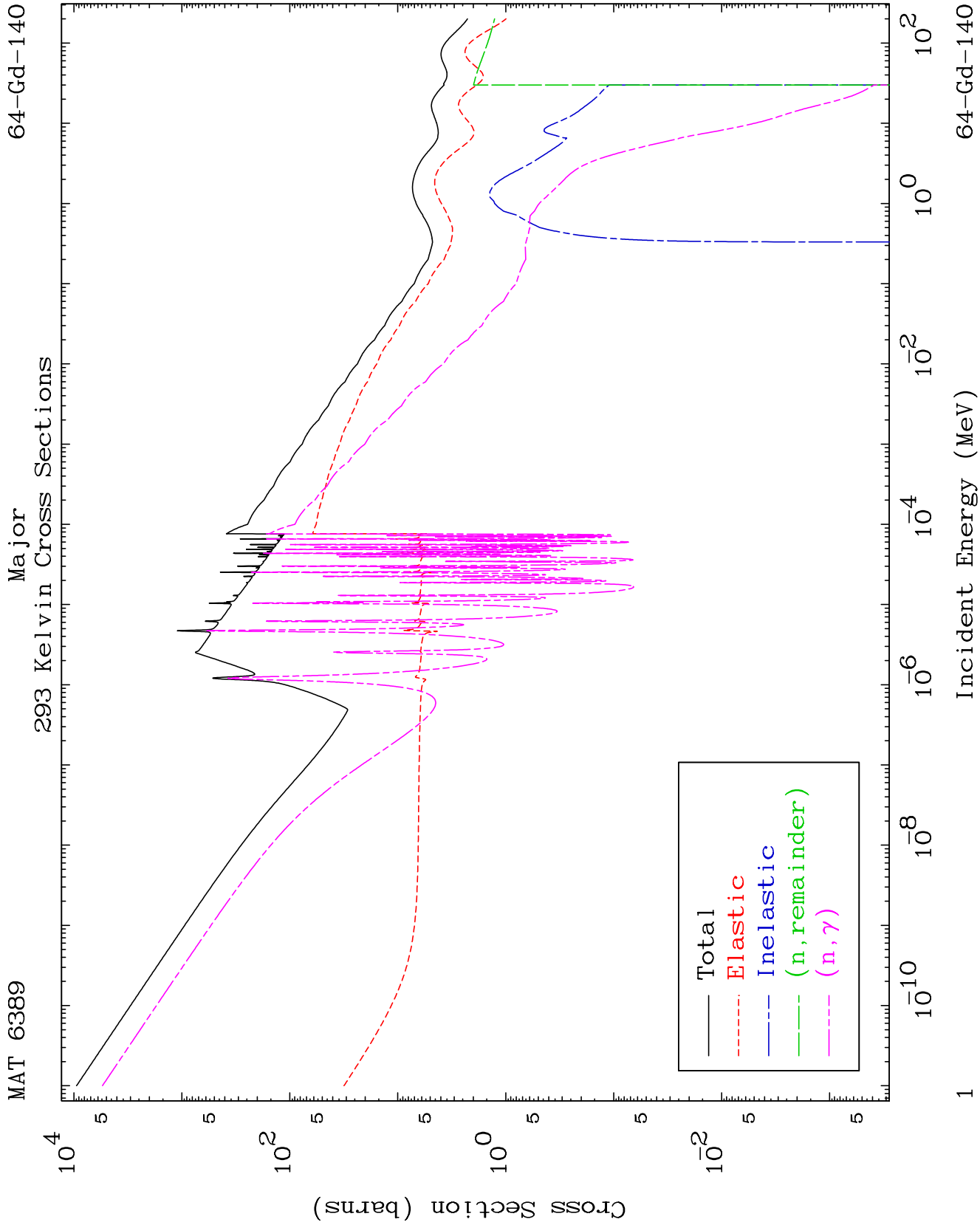
Dermott E. Cullen
(Present Contact Information)

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

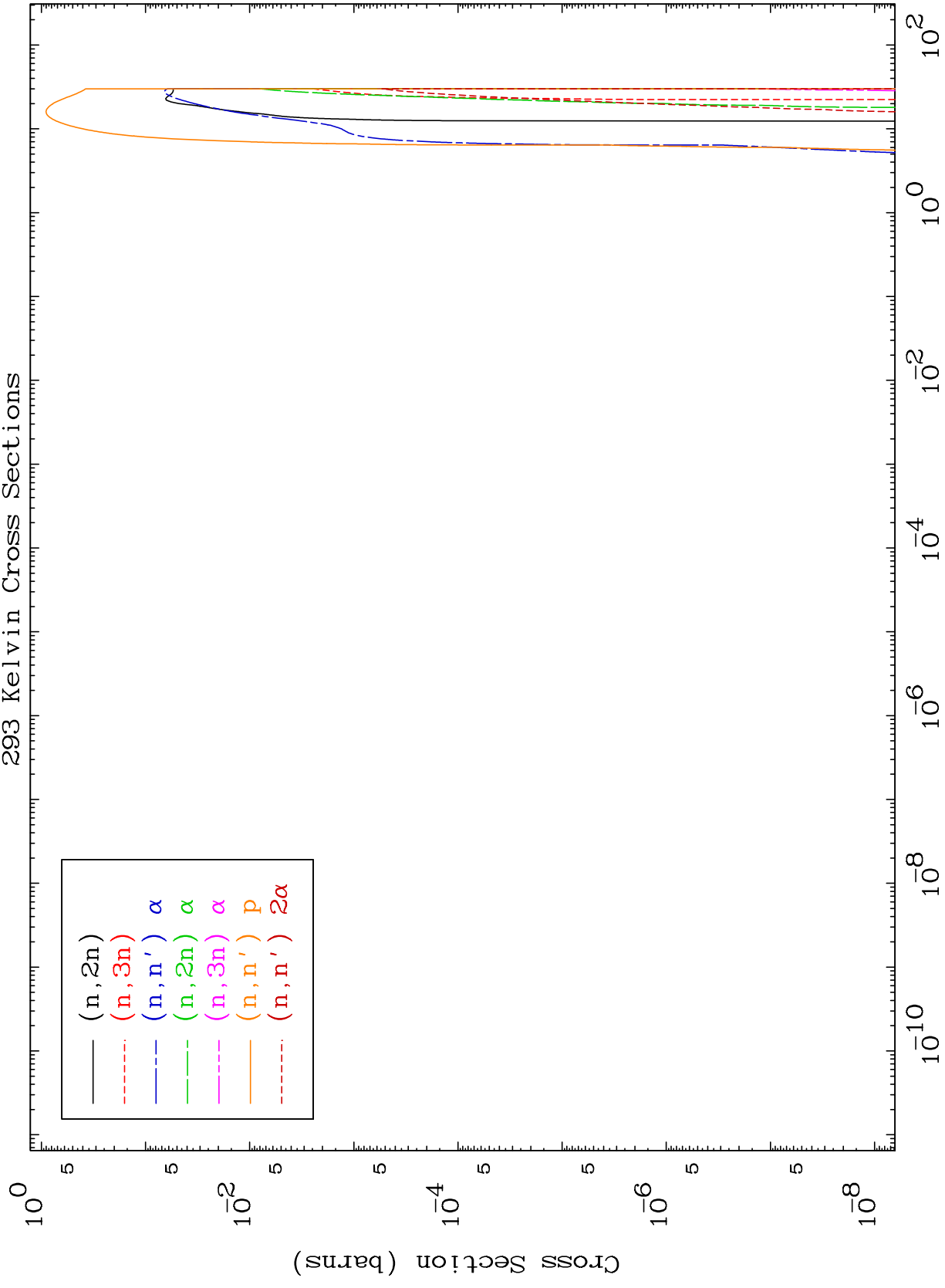
Press Mouse Button to Start



MAT 6389

Neutron Production
293 Kelvin Cross Sections

64-Gd-140



2

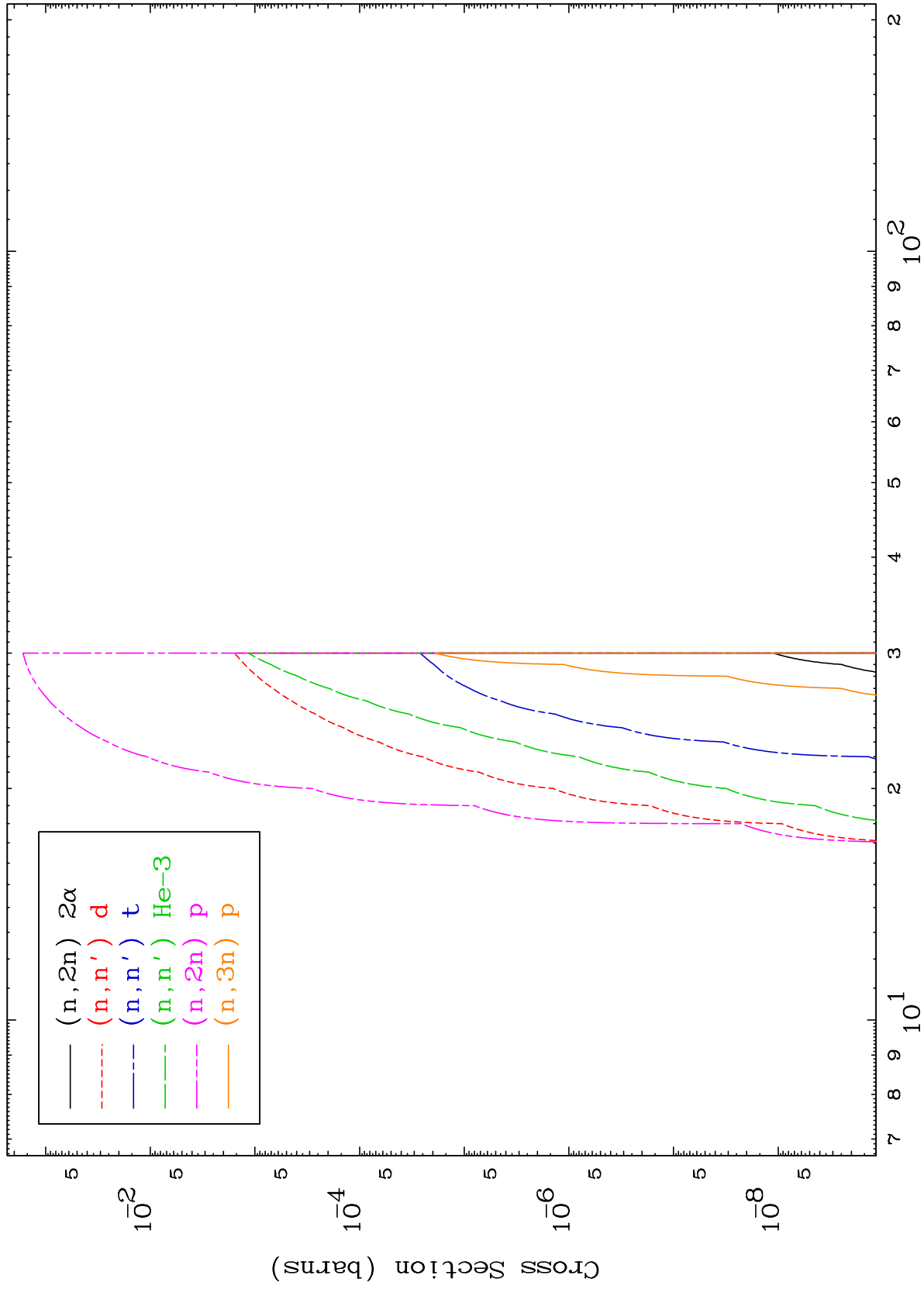
Incident Energy (MeV)

64-Gd-140

MAT 6389

Neutron Production 293 Kelvin Cross Sections

64-Gd-140



3

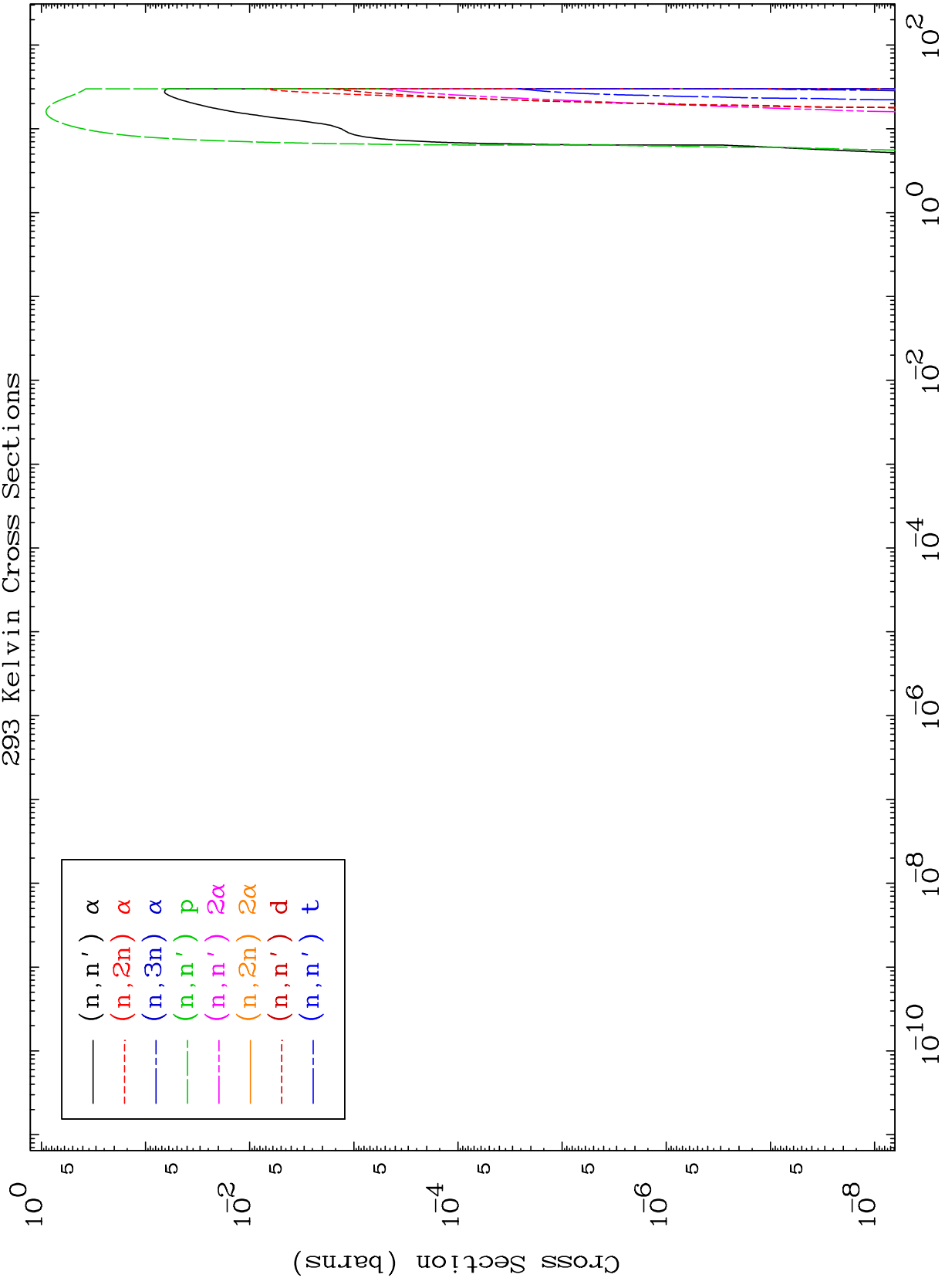
Incident Energy (MeV)

64-Gd-140

MAT 6389

293 Charged Particle
Kelvin Cross Sections

64-Gd-140

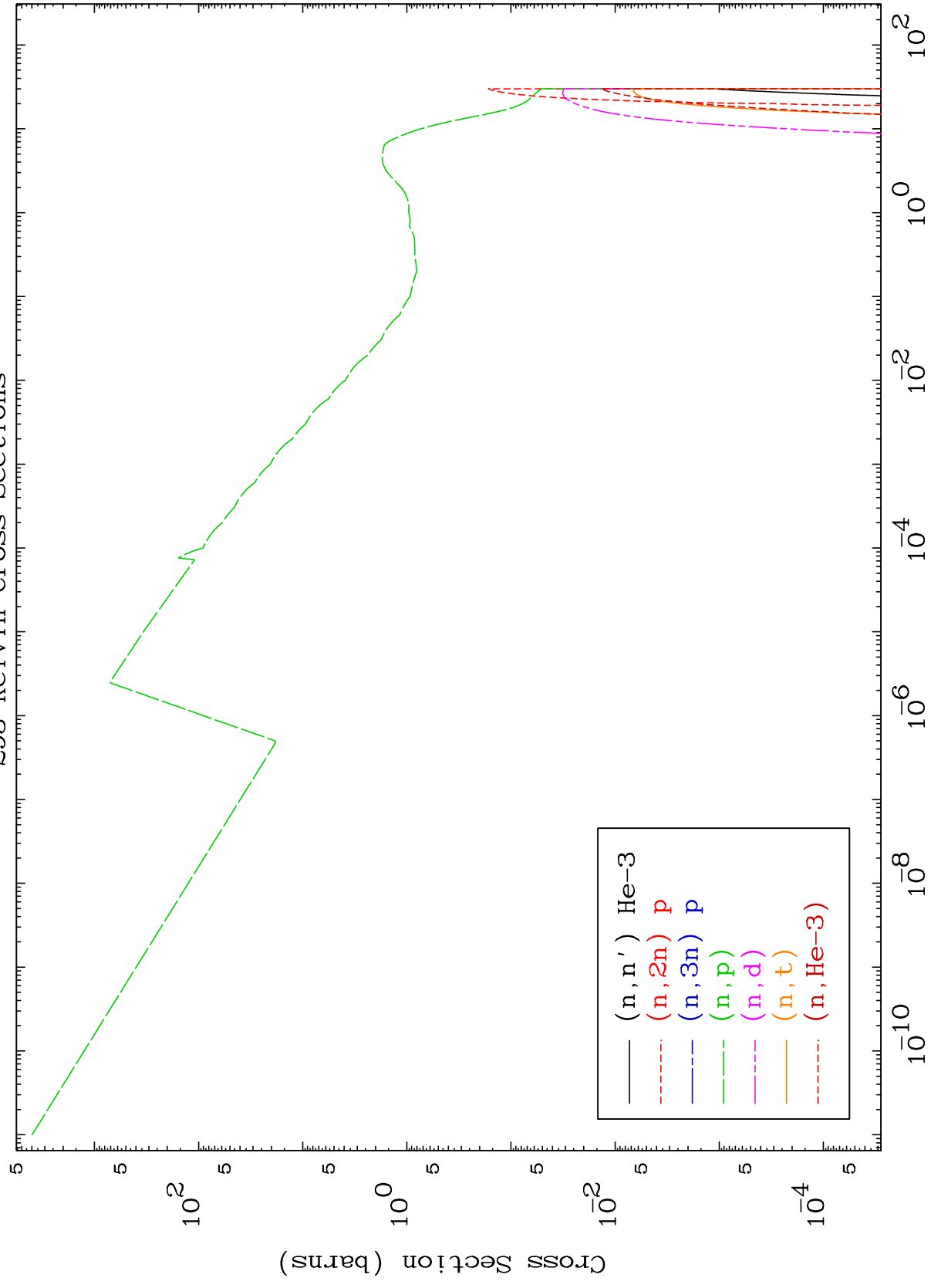


64-Gd-140

MAT 6389

Charged Particle
293 Kelvin Cross Sections

64-Gd-140

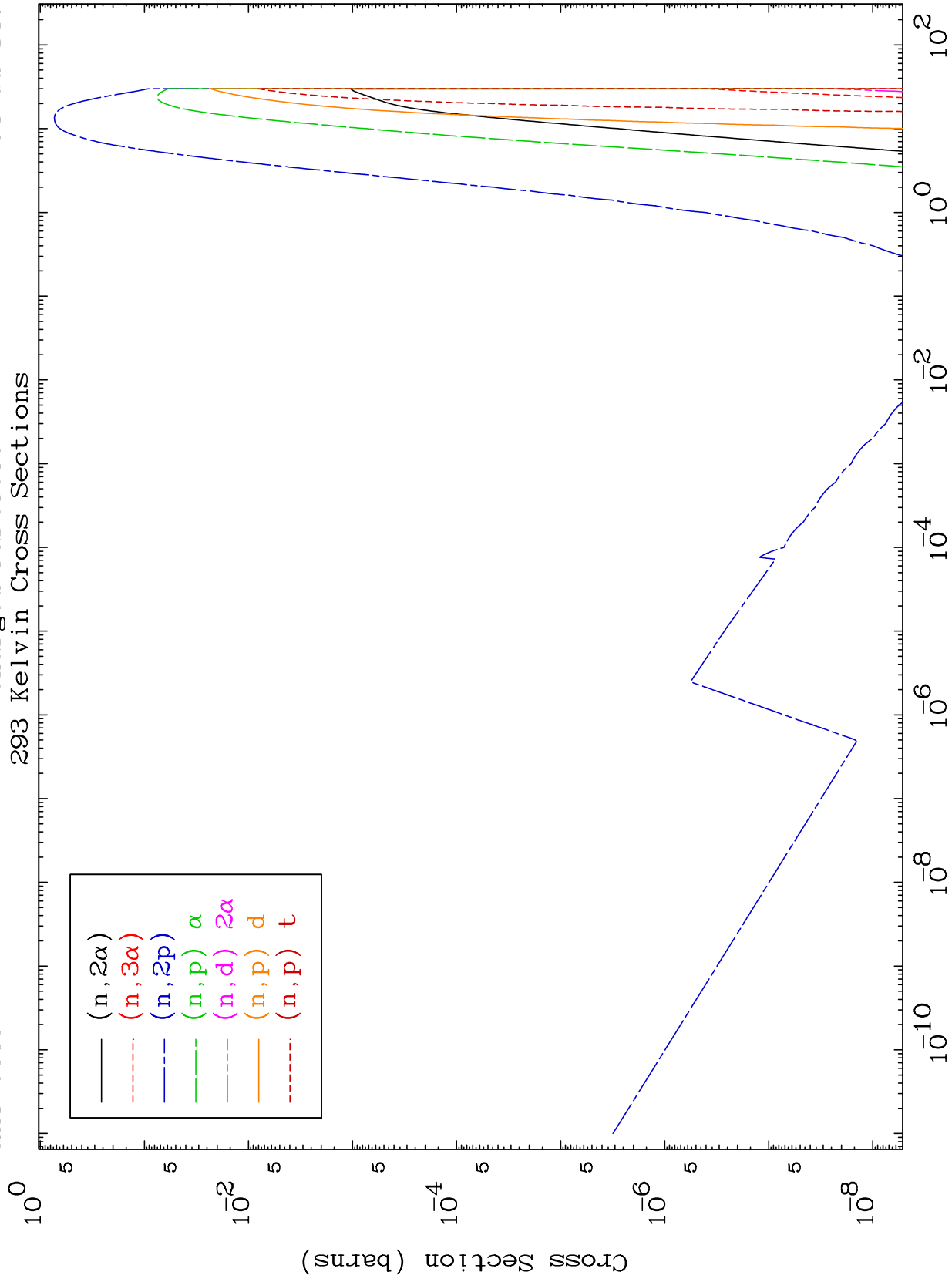


64-Gd-140

MAT 6389

293 Kelvin Cross Sections

64-Gd-140



6

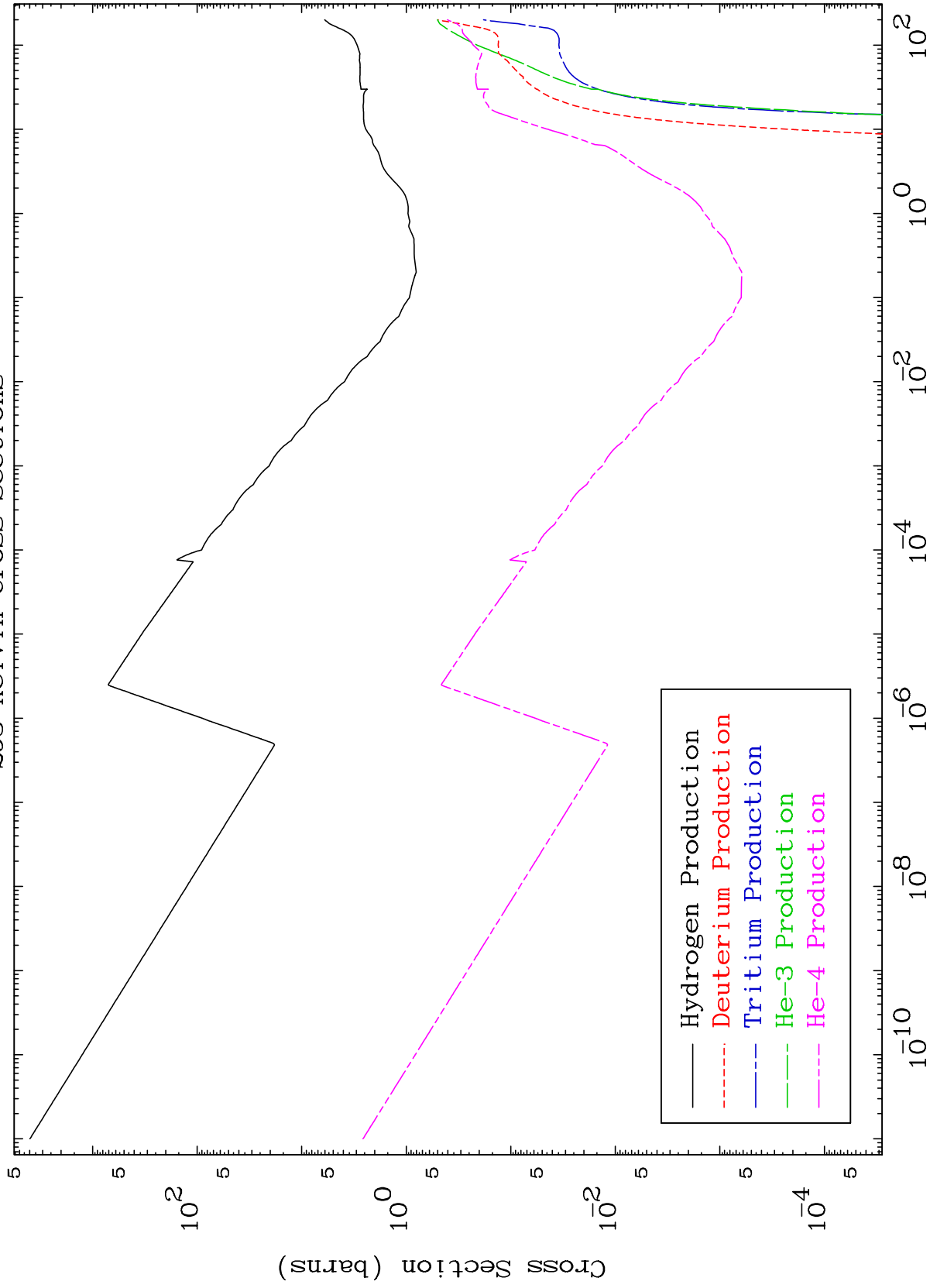
Incident Energy (MeV)

64-Gd-140

MAT 6389

Particle Production
293 Kelvin Cross Sections

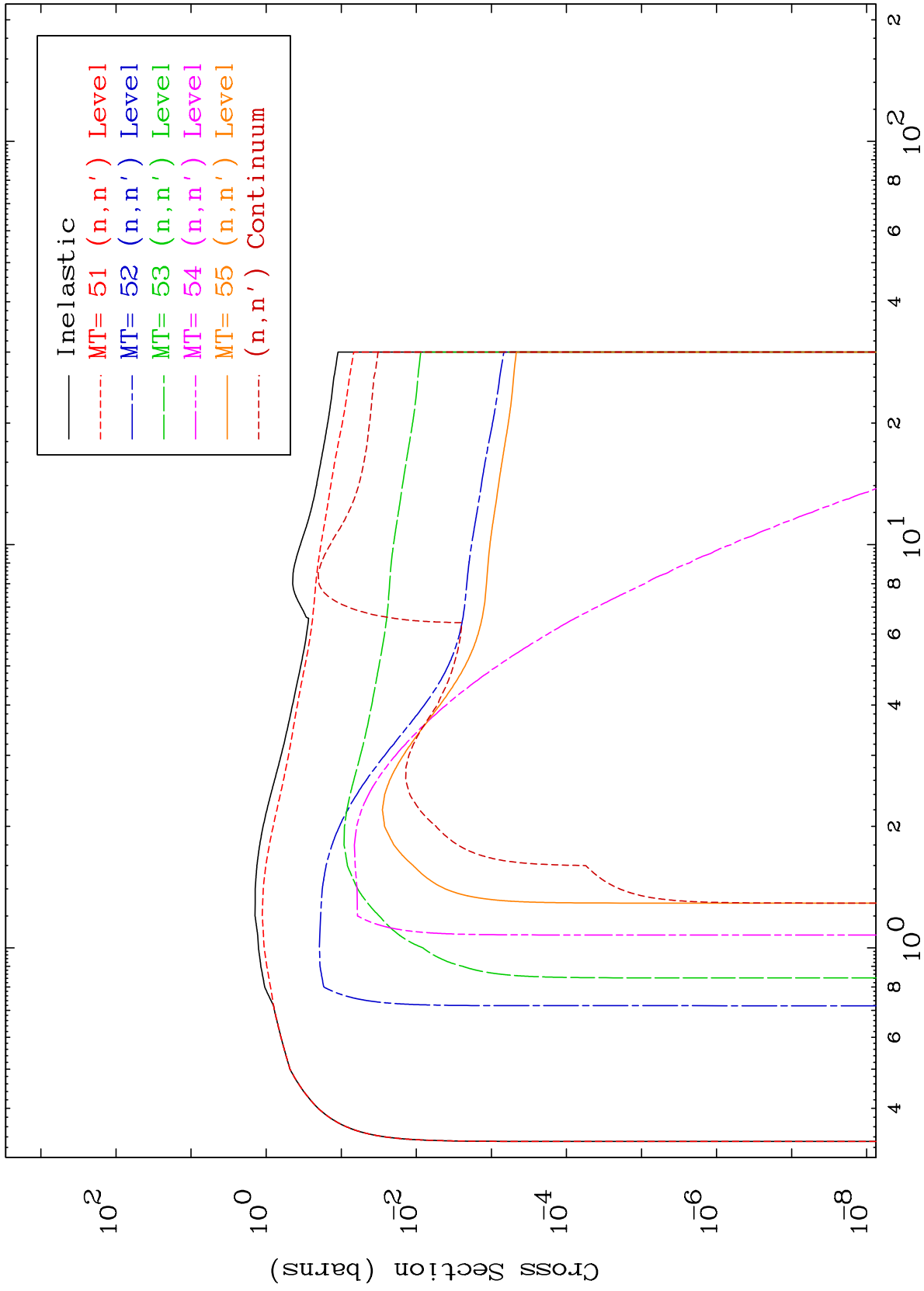
64-Gd-140



MAT 6389

(n,n') Level
293 Kelvin Cross Sections

64-Gd-140



8

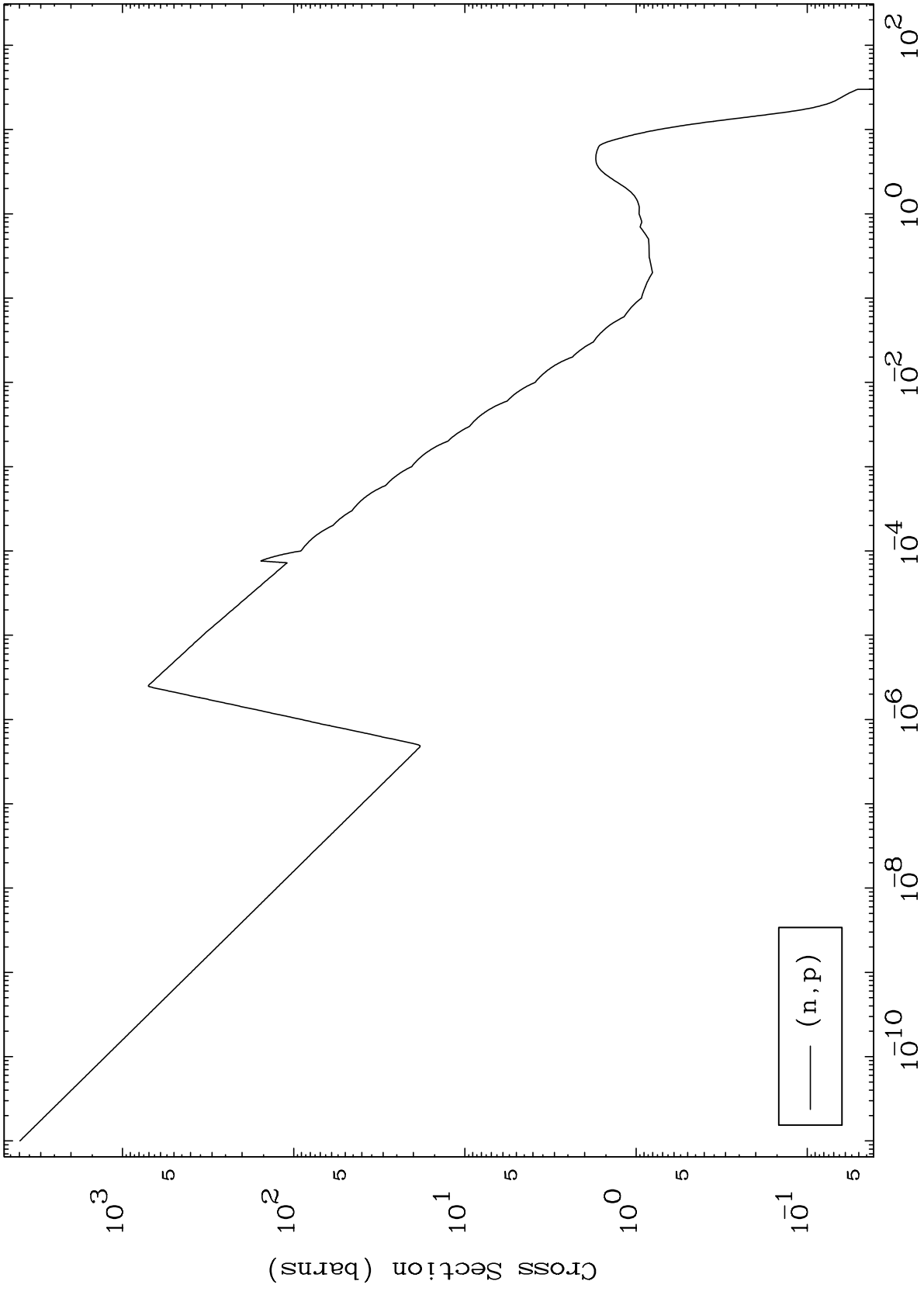
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-140

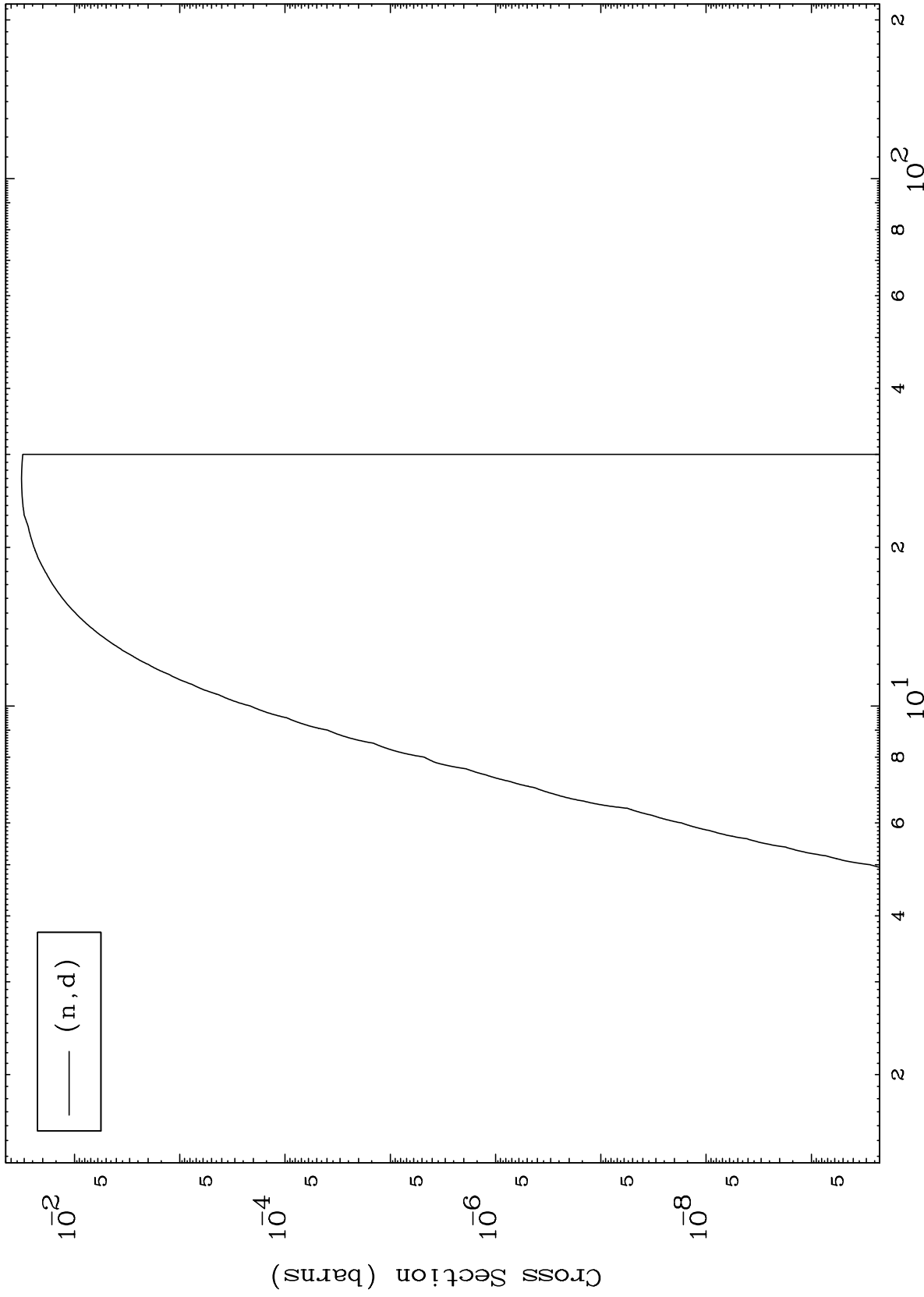


64-Gd-140

MAT 6389

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-140



10

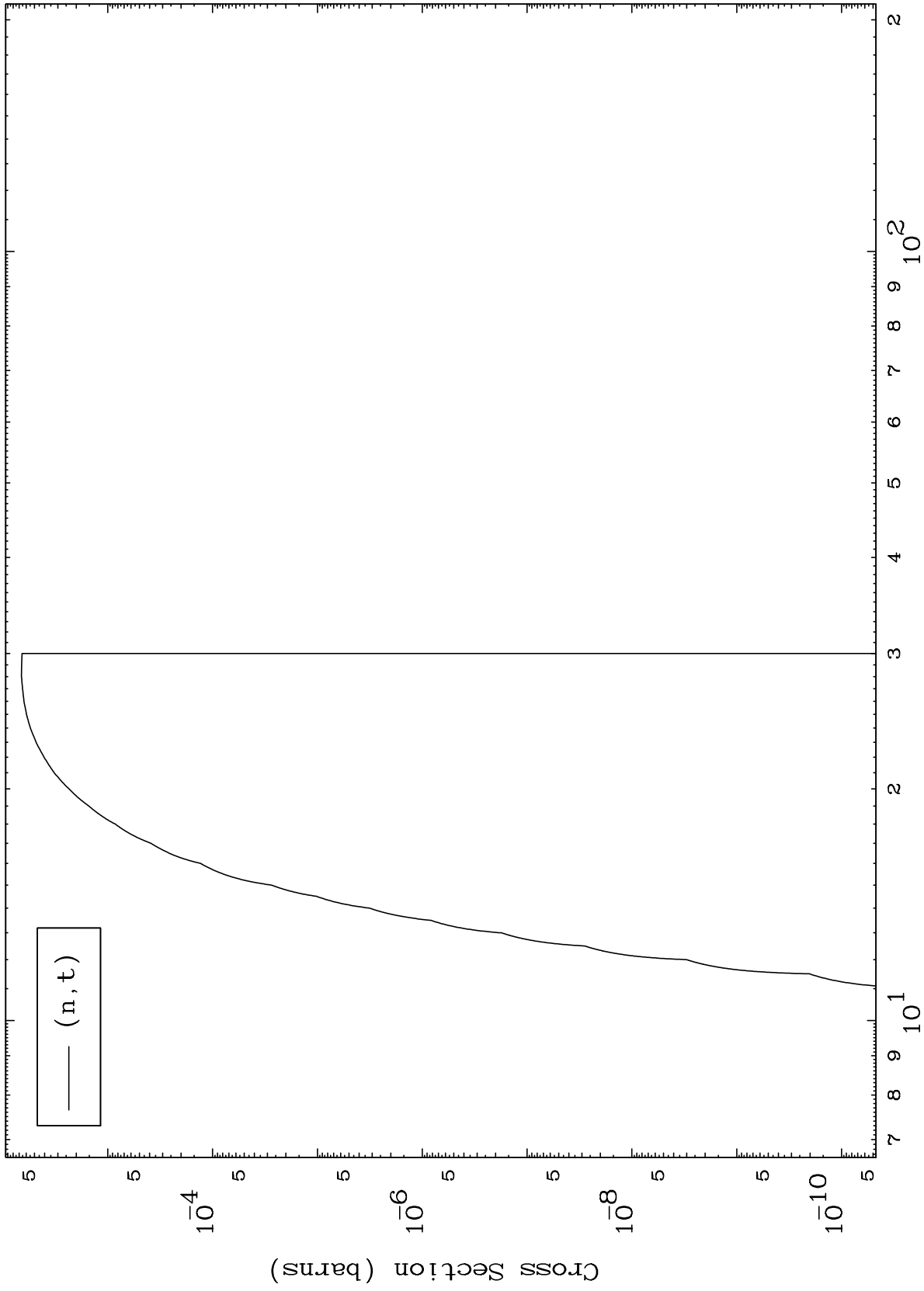
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-140



11

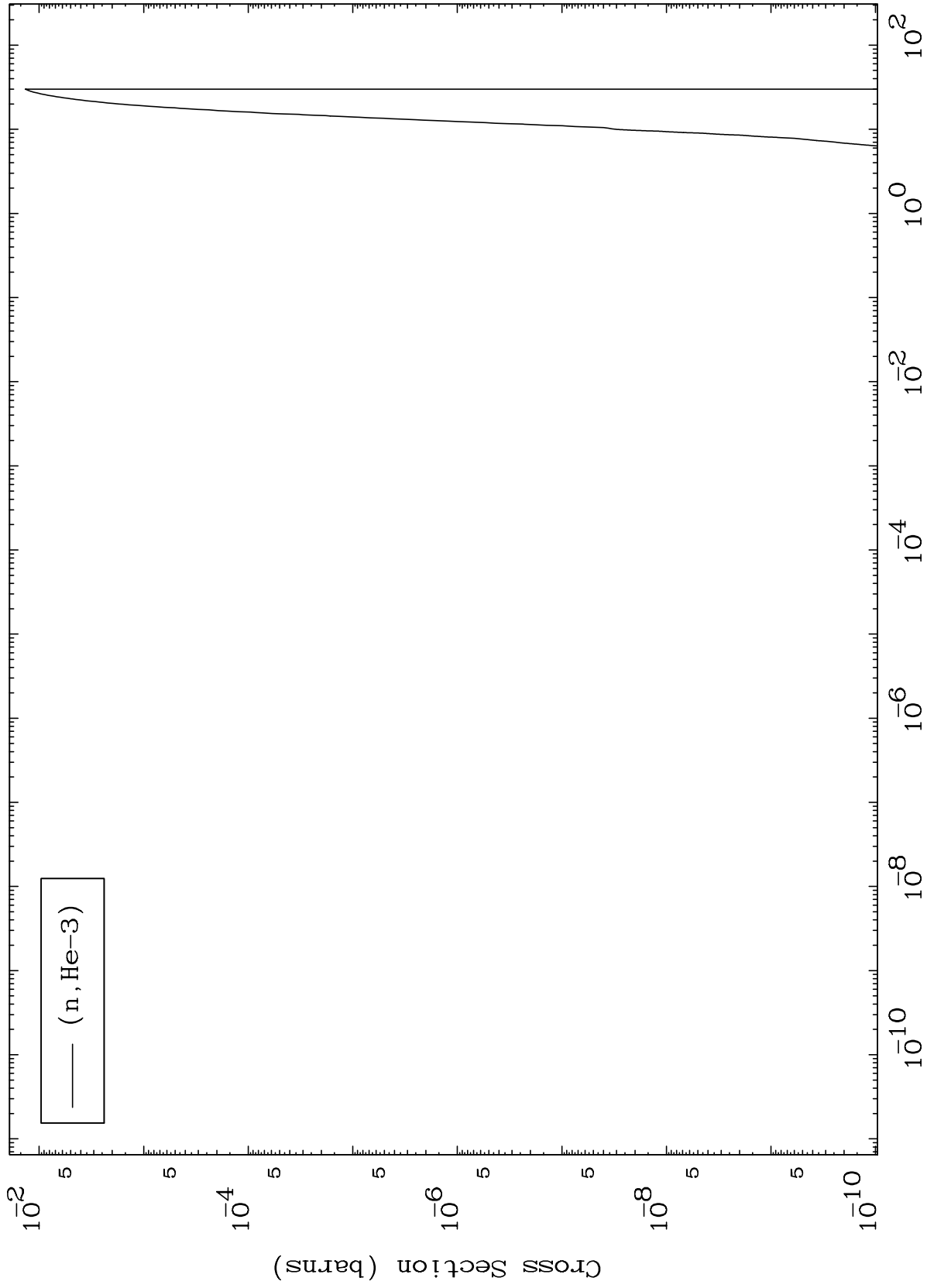
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-140



12

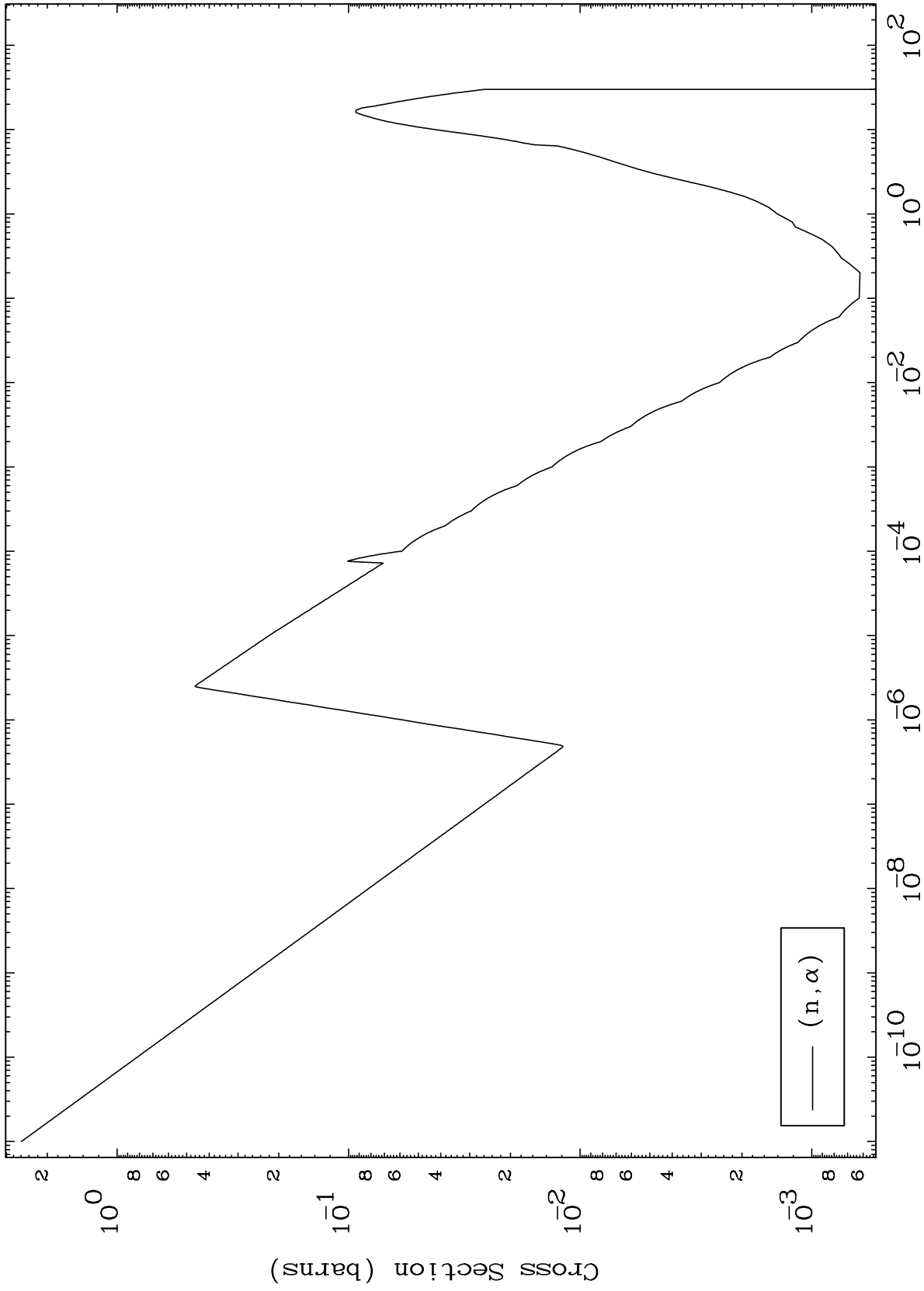
Incident Energy (MeV)

64-Gd-140

MAT 6389

(n,α) Levels
293 Kelvin Cross Sections

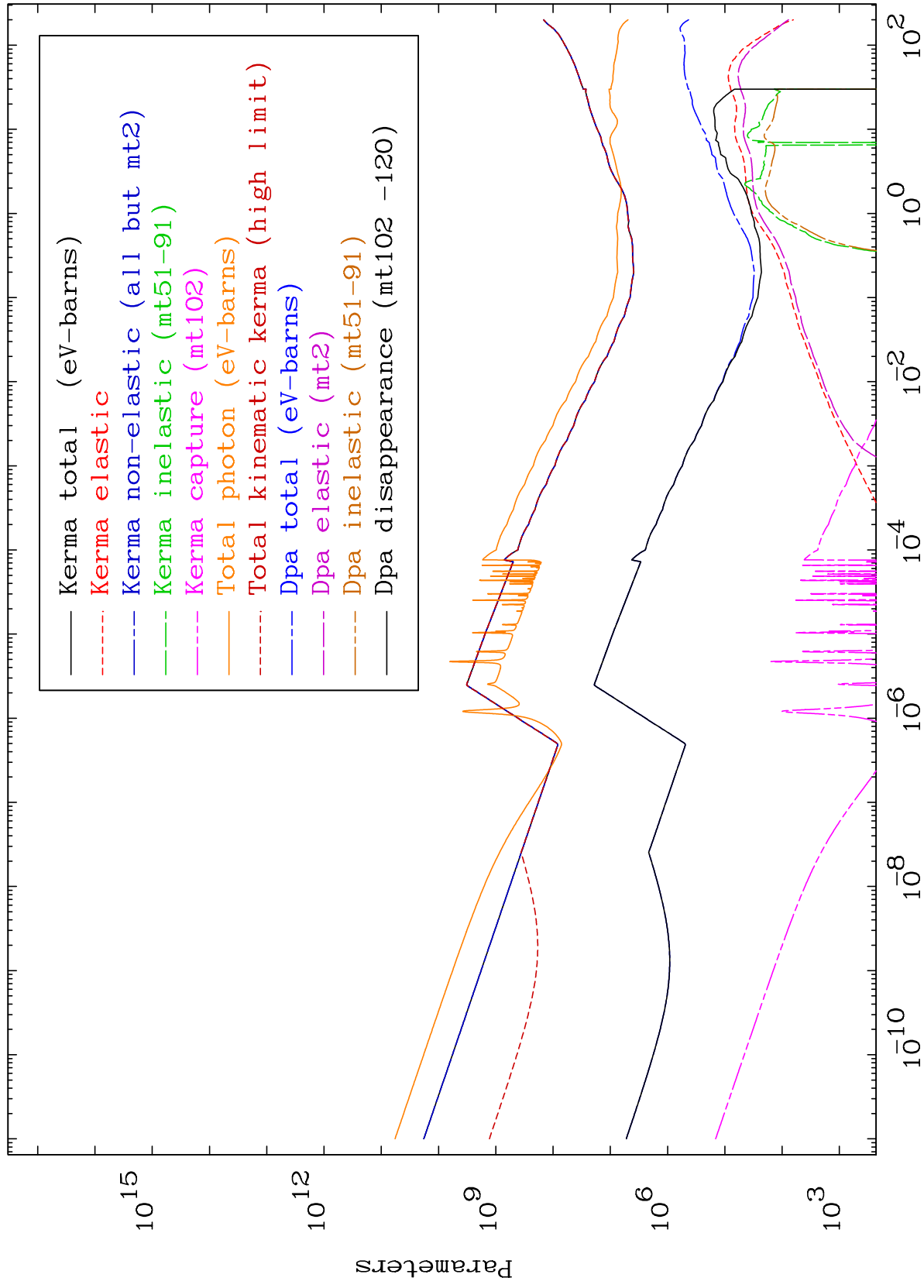
64-Gd-140

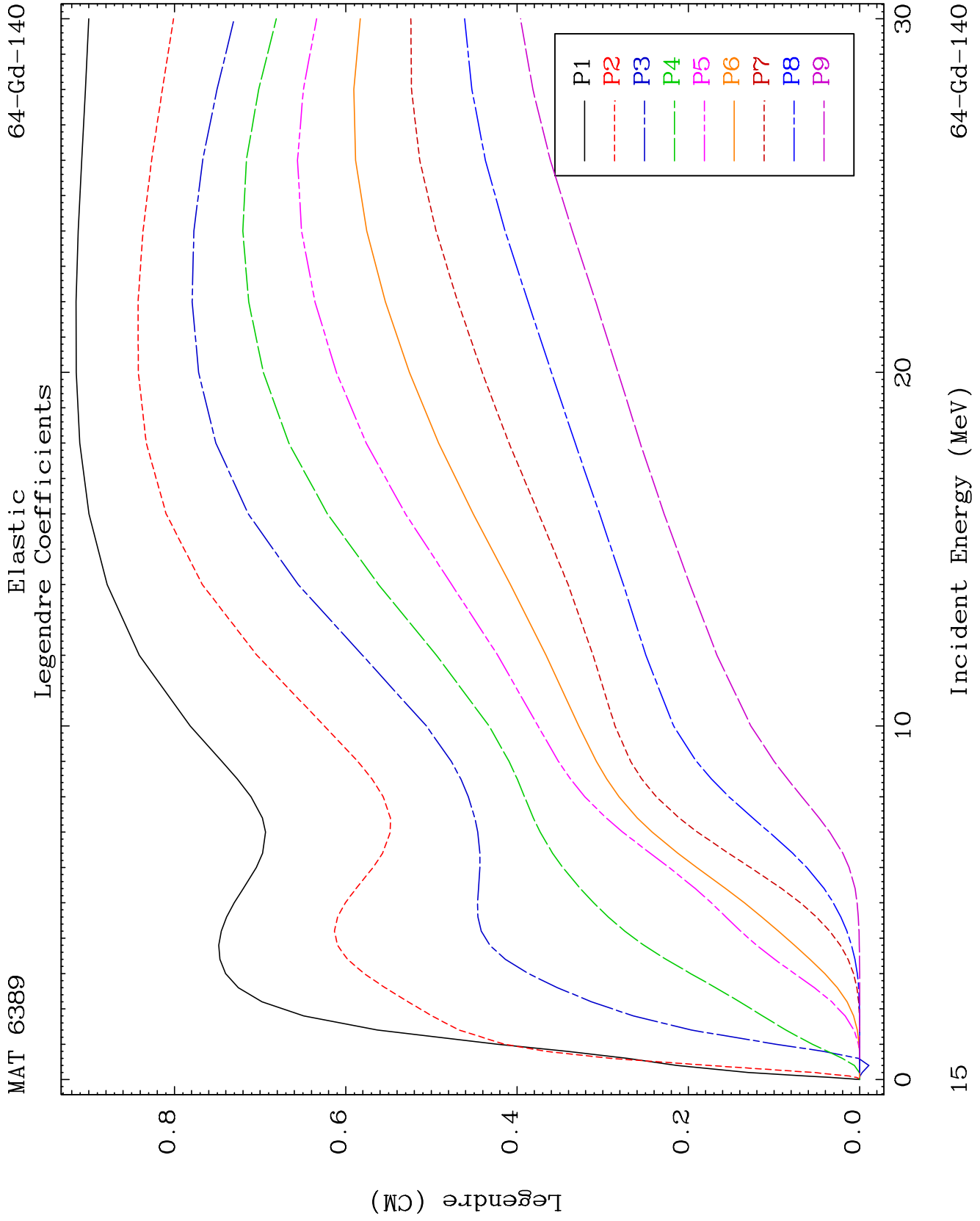


13

Incident Energy (MeV)

64-Gd-140

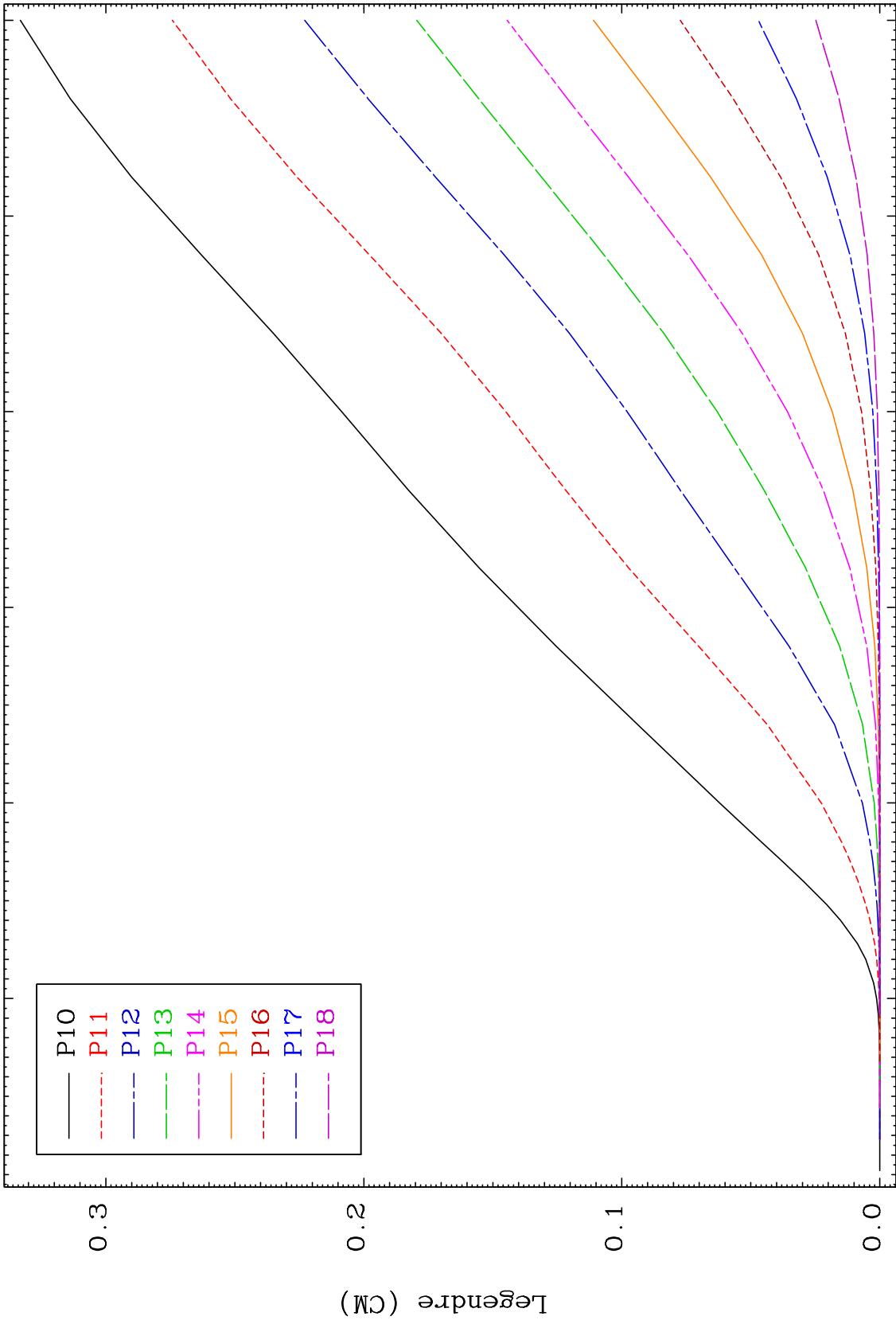




MAT 6389

Elastic Legendre Coefficients

64-Gd-140



16

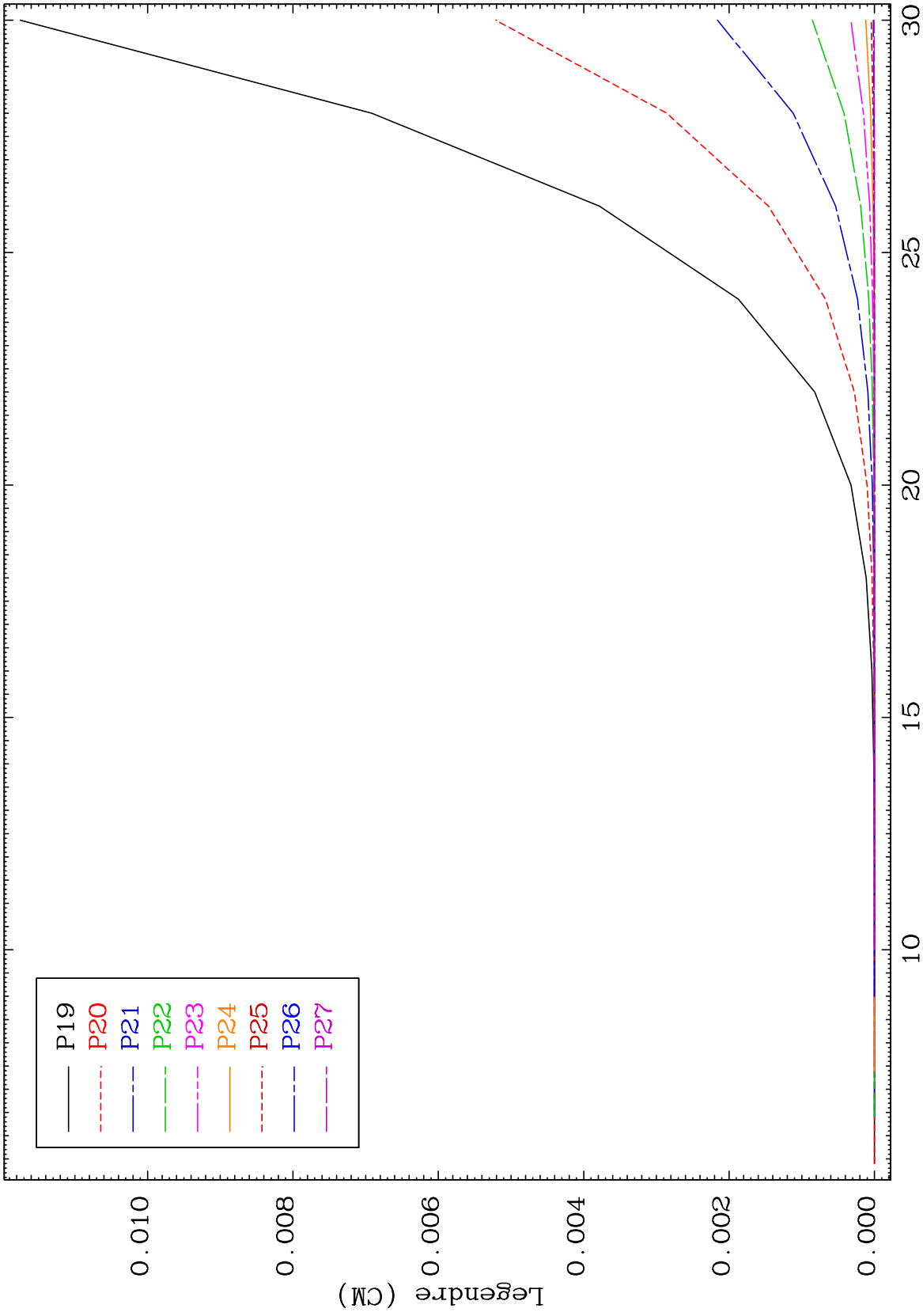
Incident Energy (MeV)

64-Gd-140

MAT 6389

Elastic Legendre Coefficients

64-Gd-140



17

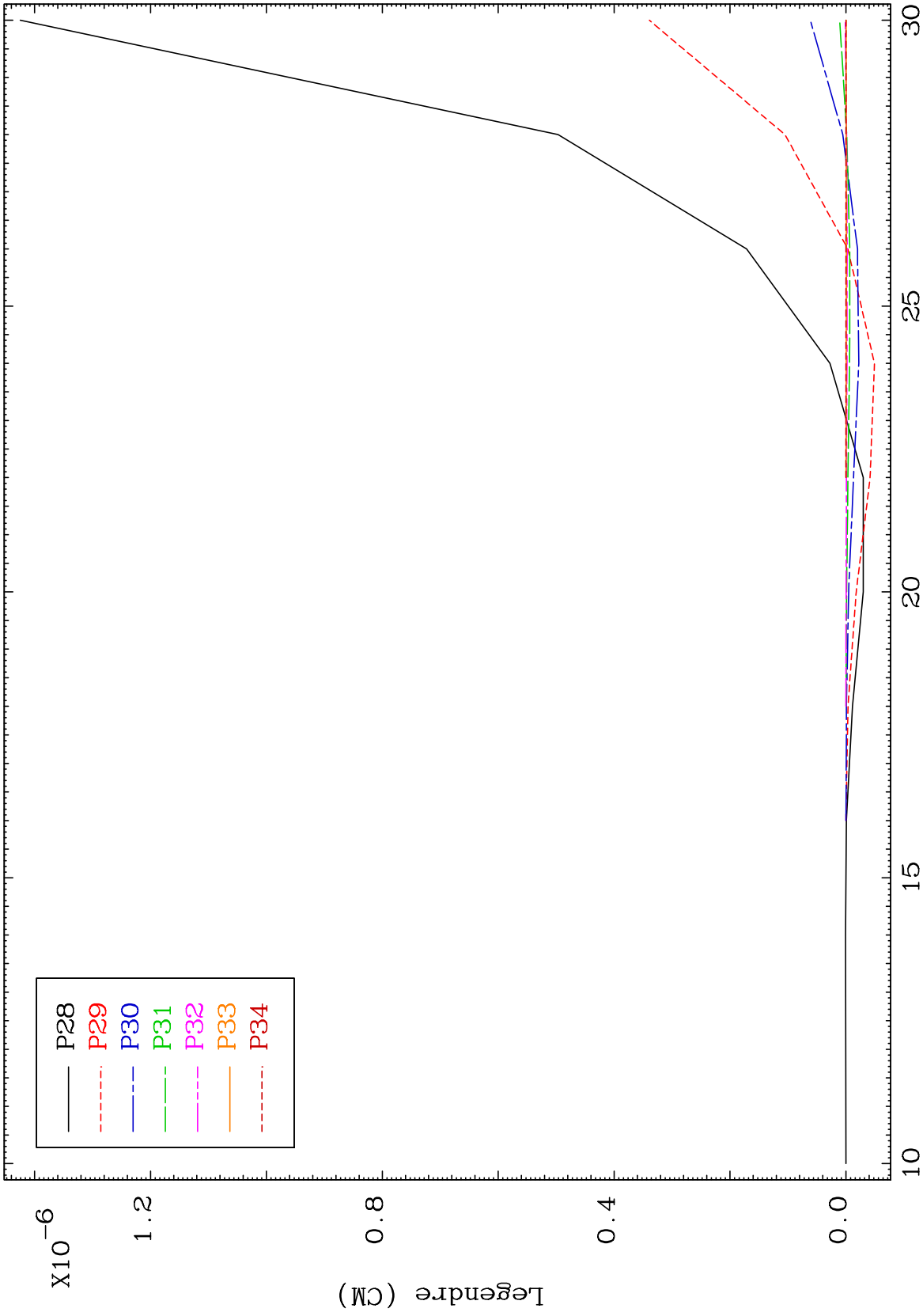
Incident Energy (MeV)

64-Gd-140

MAT 6389

Elastic Legendre Coefficients

64-Gd-140



18

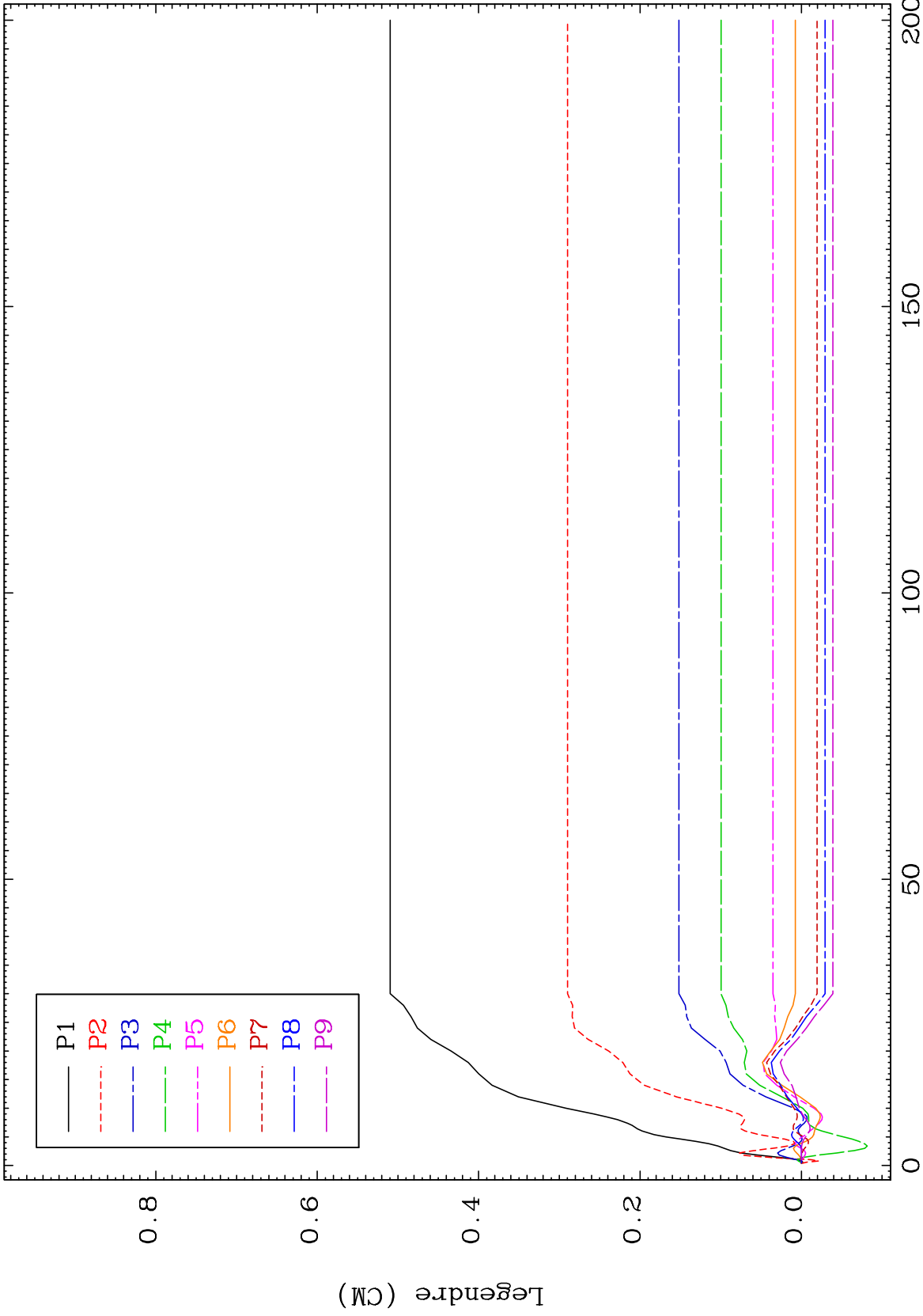
Incident Energy (MeV)

64-Gd-140

MAT 6389

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-140



19

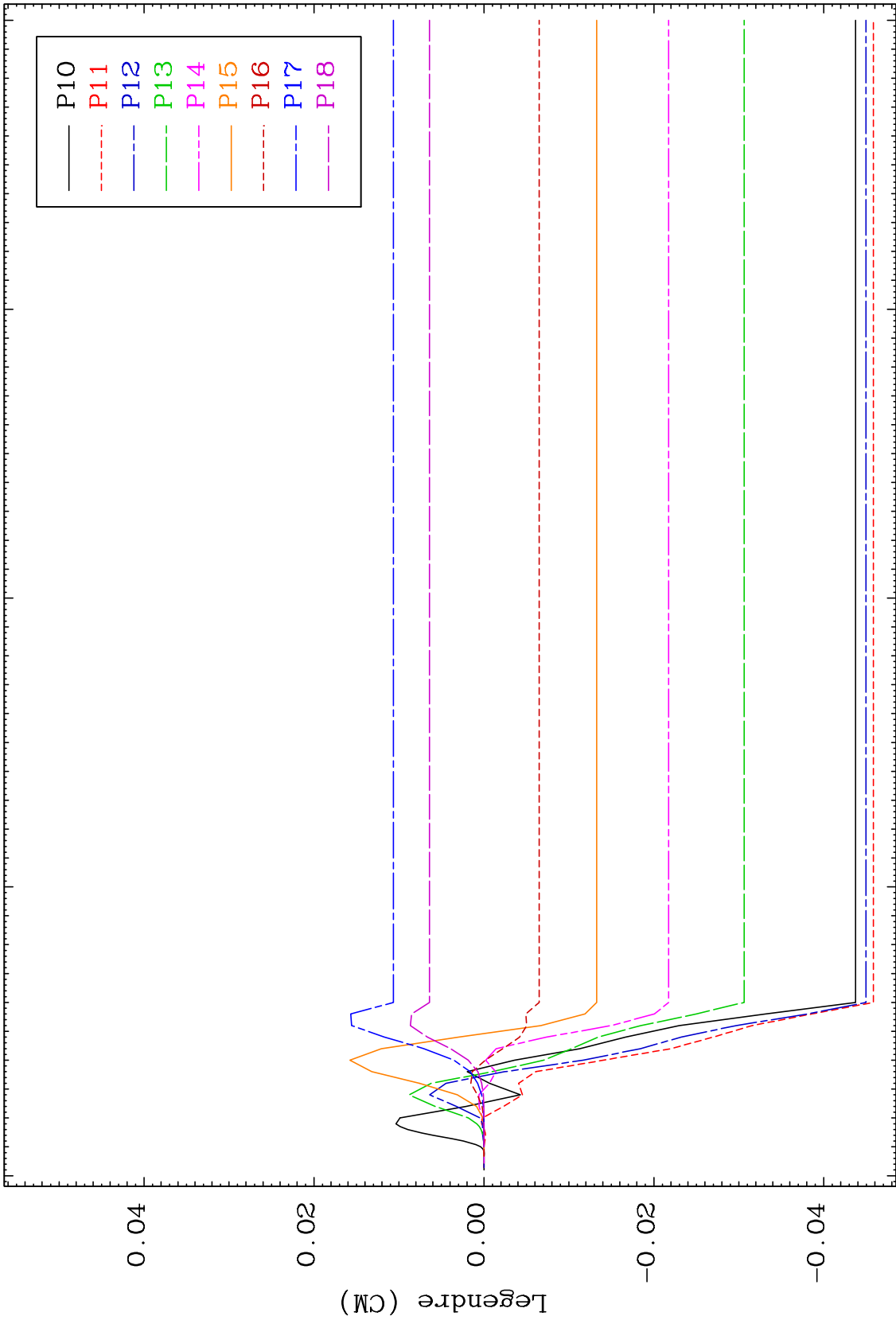
Incident Energy (MeV)

64-Gd-140

MAT 6389

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-140



64-Gd-140

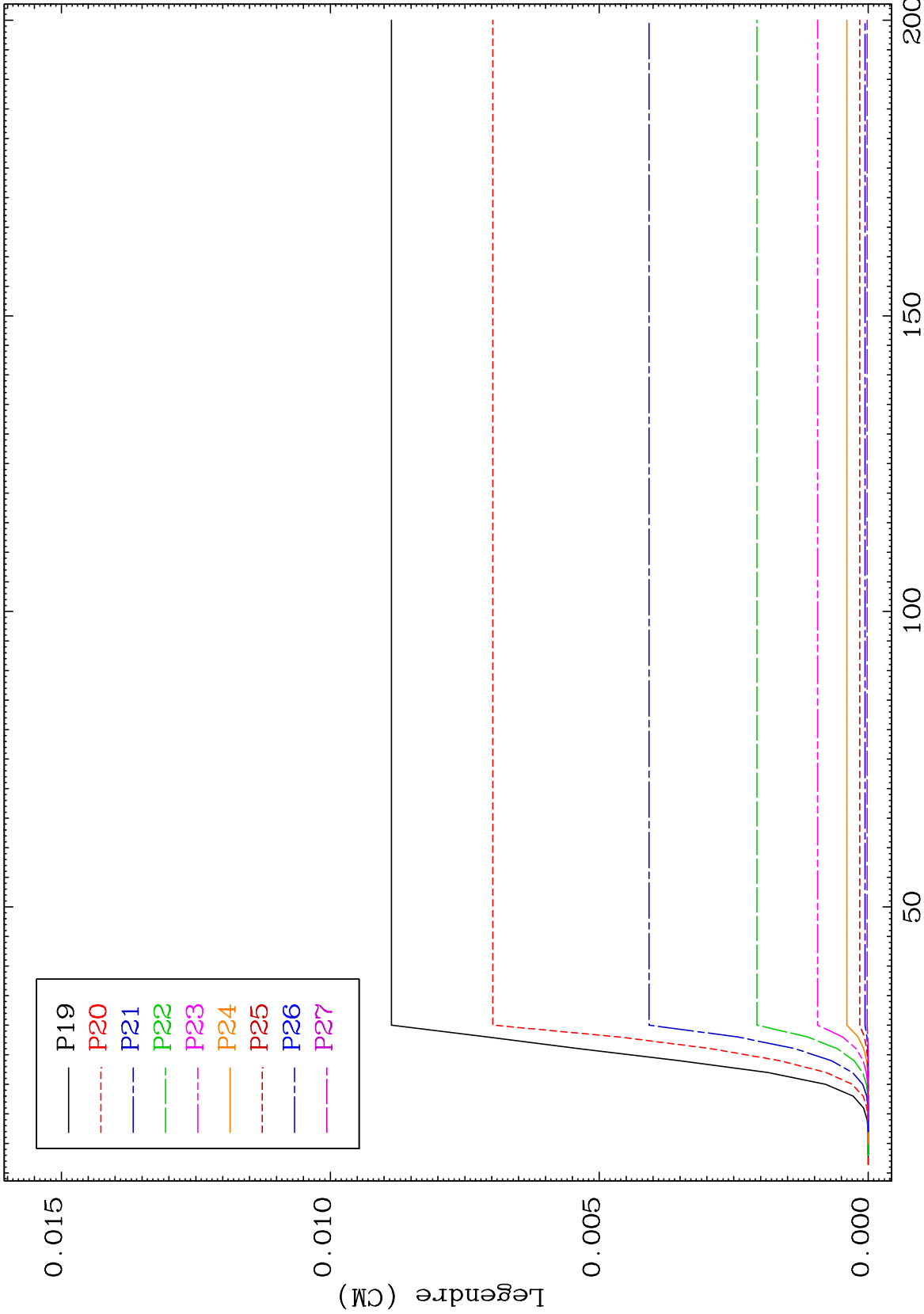
Incident Energy (MeV)

20

MAT 6389

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-140



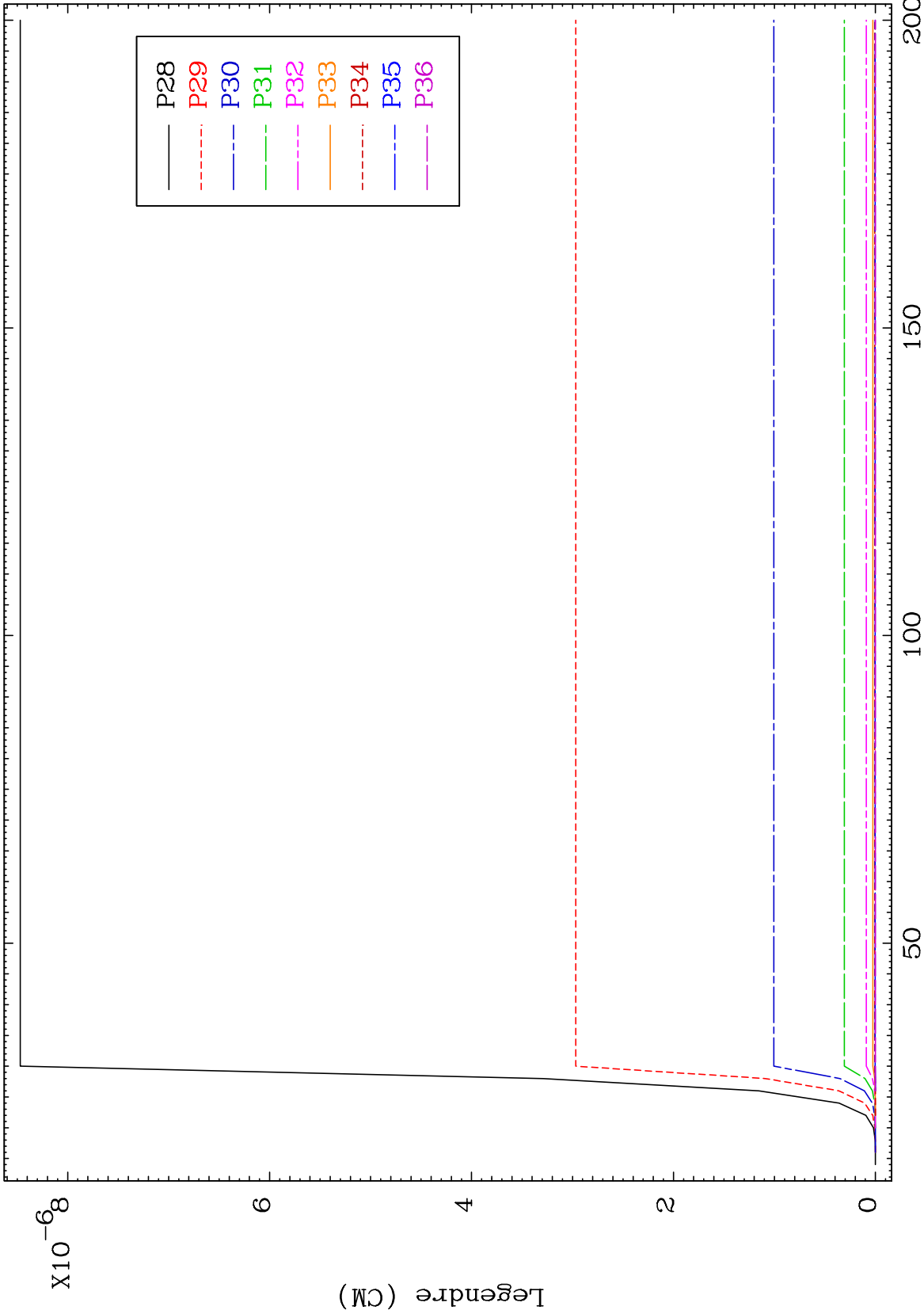
21

64-Gd-140

MAT 6389

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-140

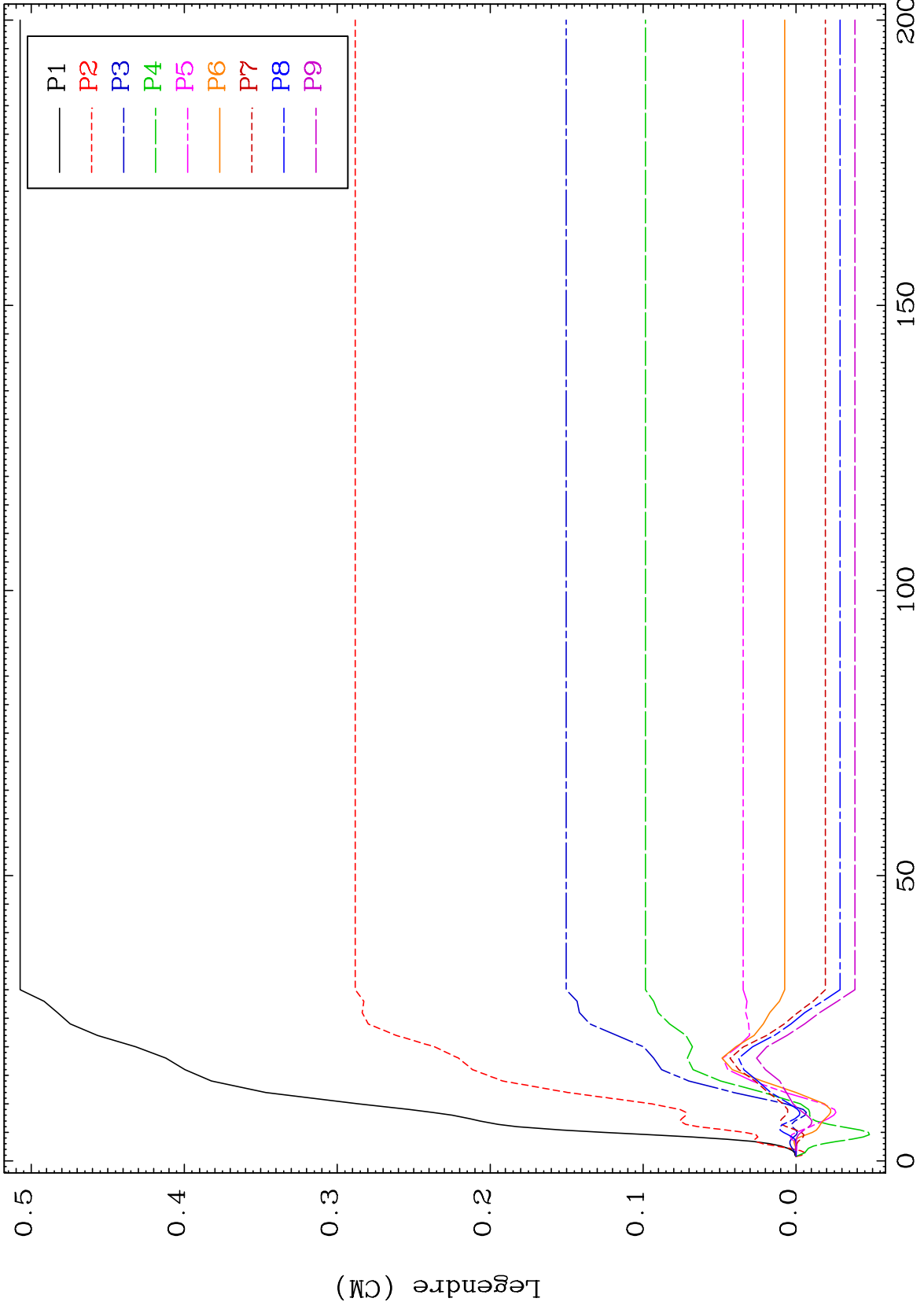


22

Incident Energy (MeV)

64-Gd-140

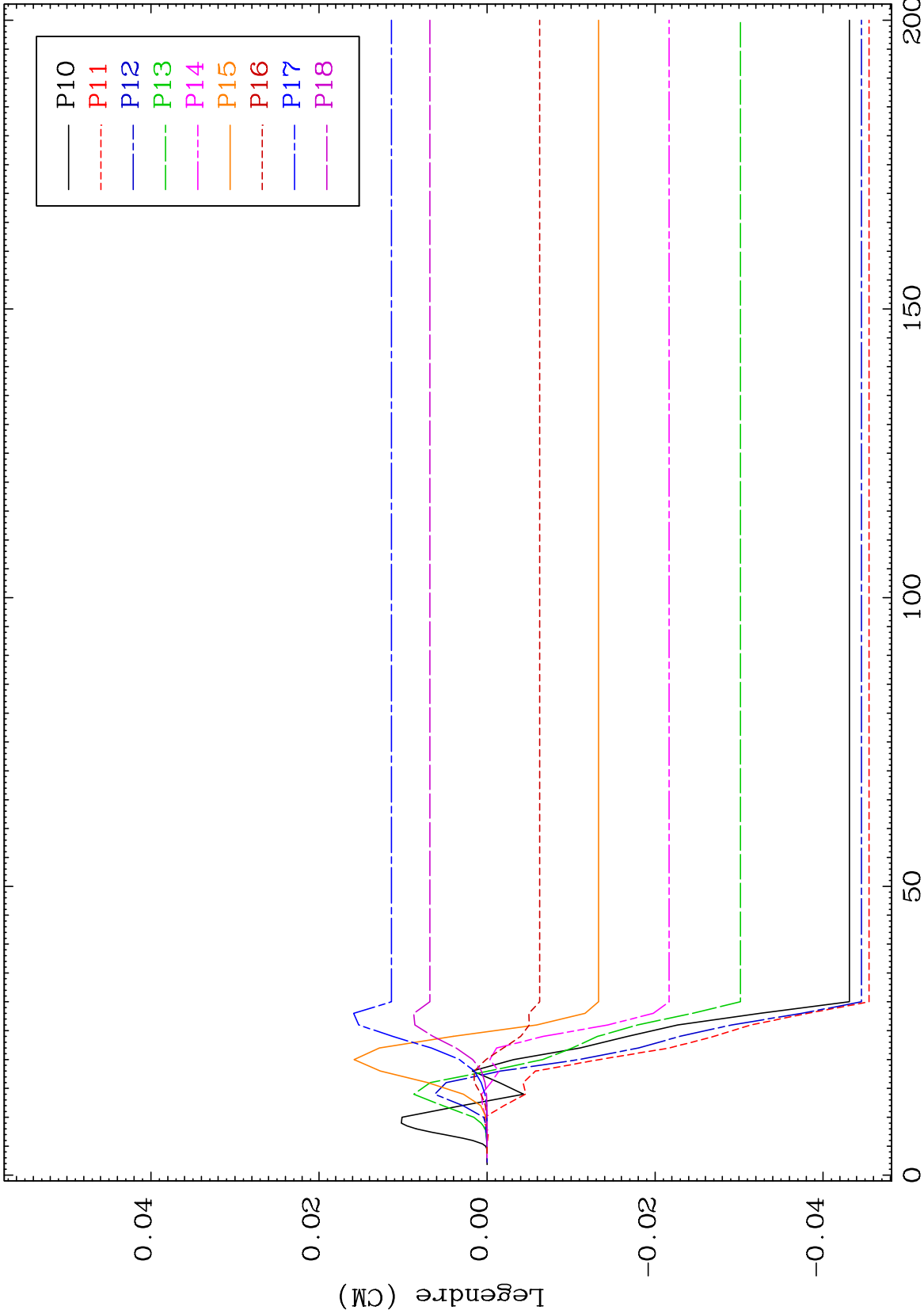
MAT 6389 MT= 52 (n,n') Level Legendre Coefficients 64-Gd-140



MAT 6389

MT= 52 (n,n') Level
Legendre Coefficients

64-Gd-140



24

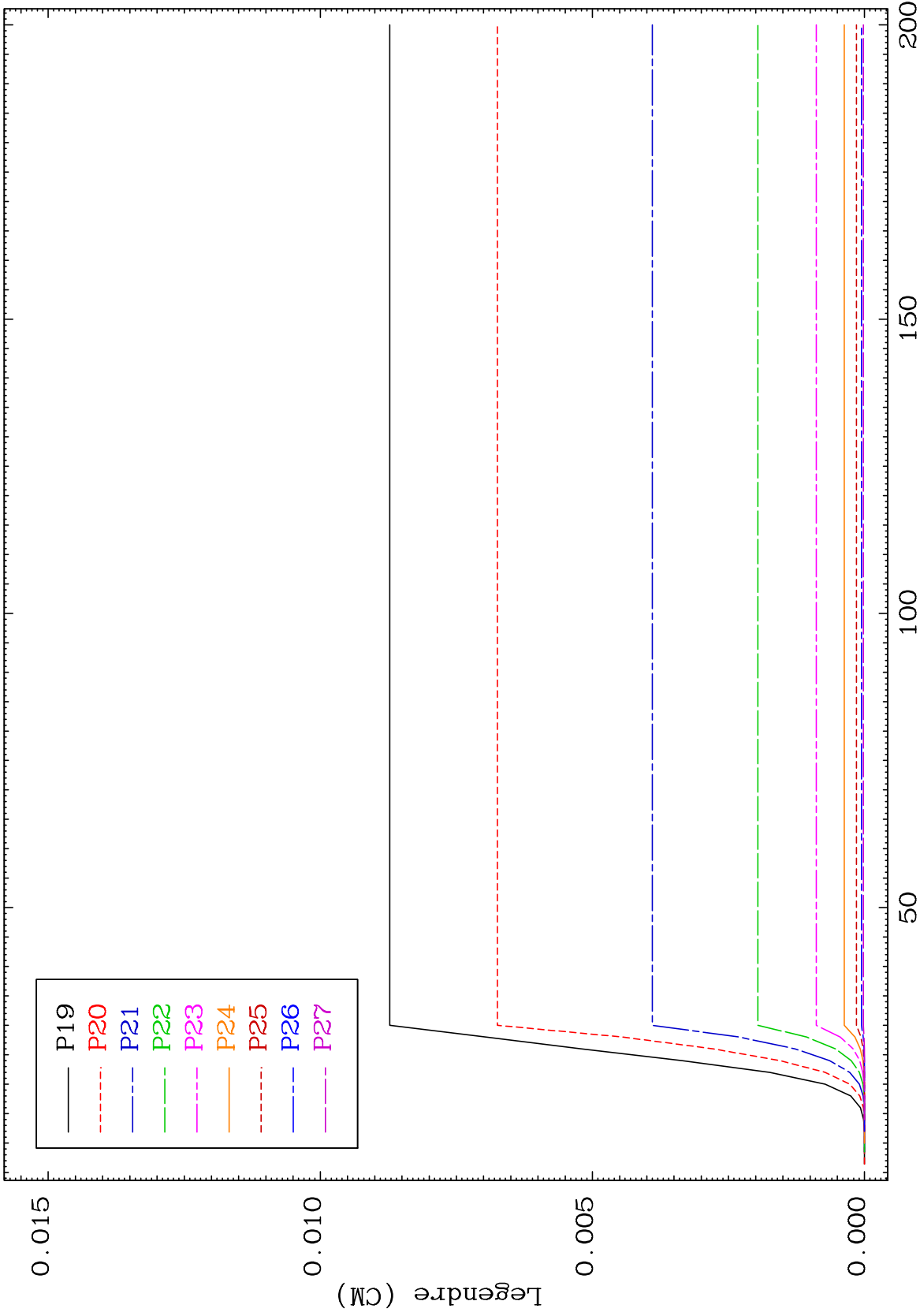
Incident Energy (MeV)

64-Gd-140

MAT 6389

MT= 52 (n,n') Level
Legendre Coefficients

64-Gd-140



25

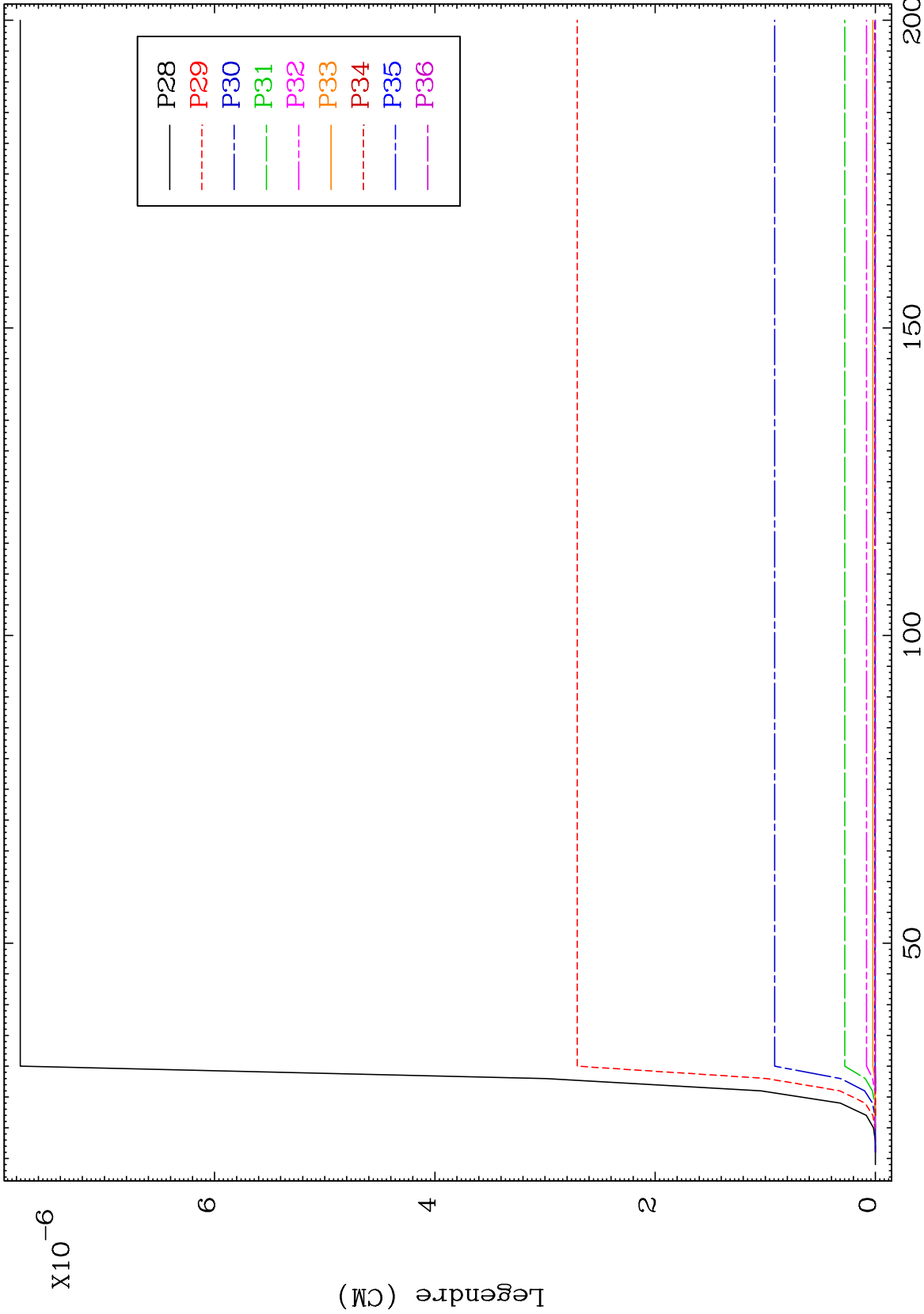
Incident Energy (MeV)

64-Gd-140

MAT 6389

MT= 52 (n,n') Level
Legendre Coefficients

64-Gd-140



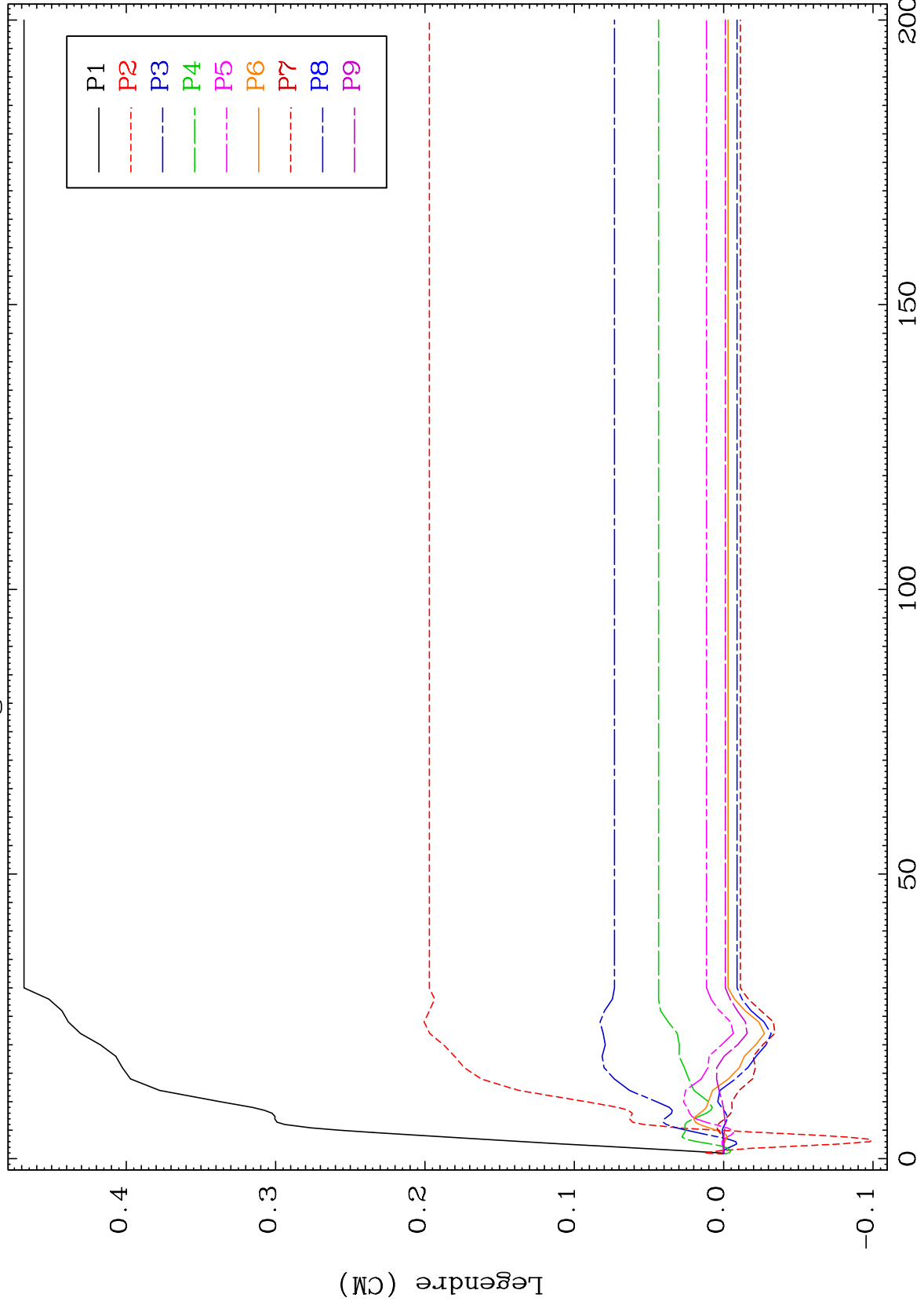
26

64-Gd-140

MAT 6389

MT= 53 (n,n') Level
Legendre Coefficients

64-Gd-140



27

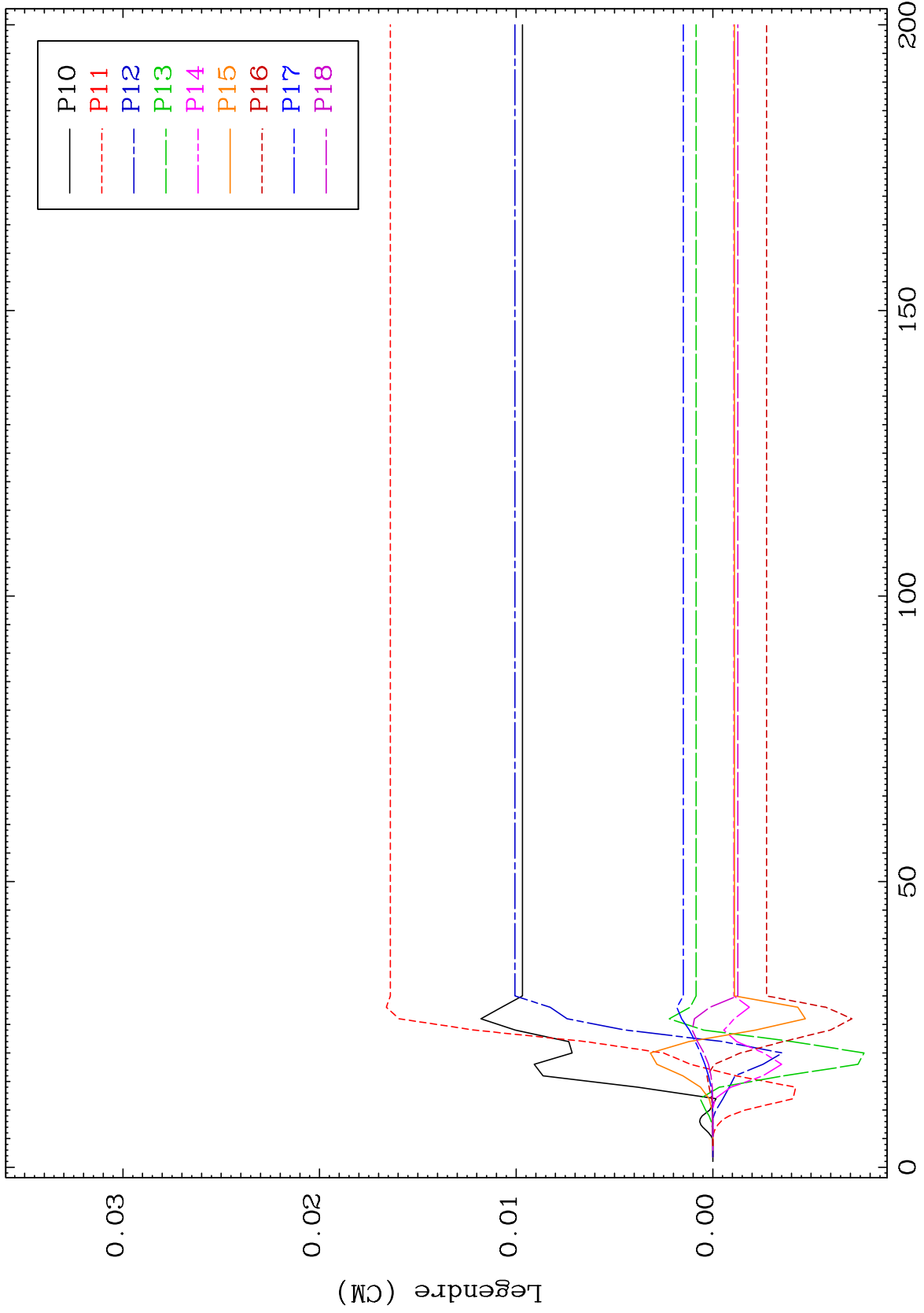
Incident Energy (MeV)

64-Gd-140

MAT 6389

MT= 53 (n,n') Level
Legendre Coefficients

64-Gd-140



28

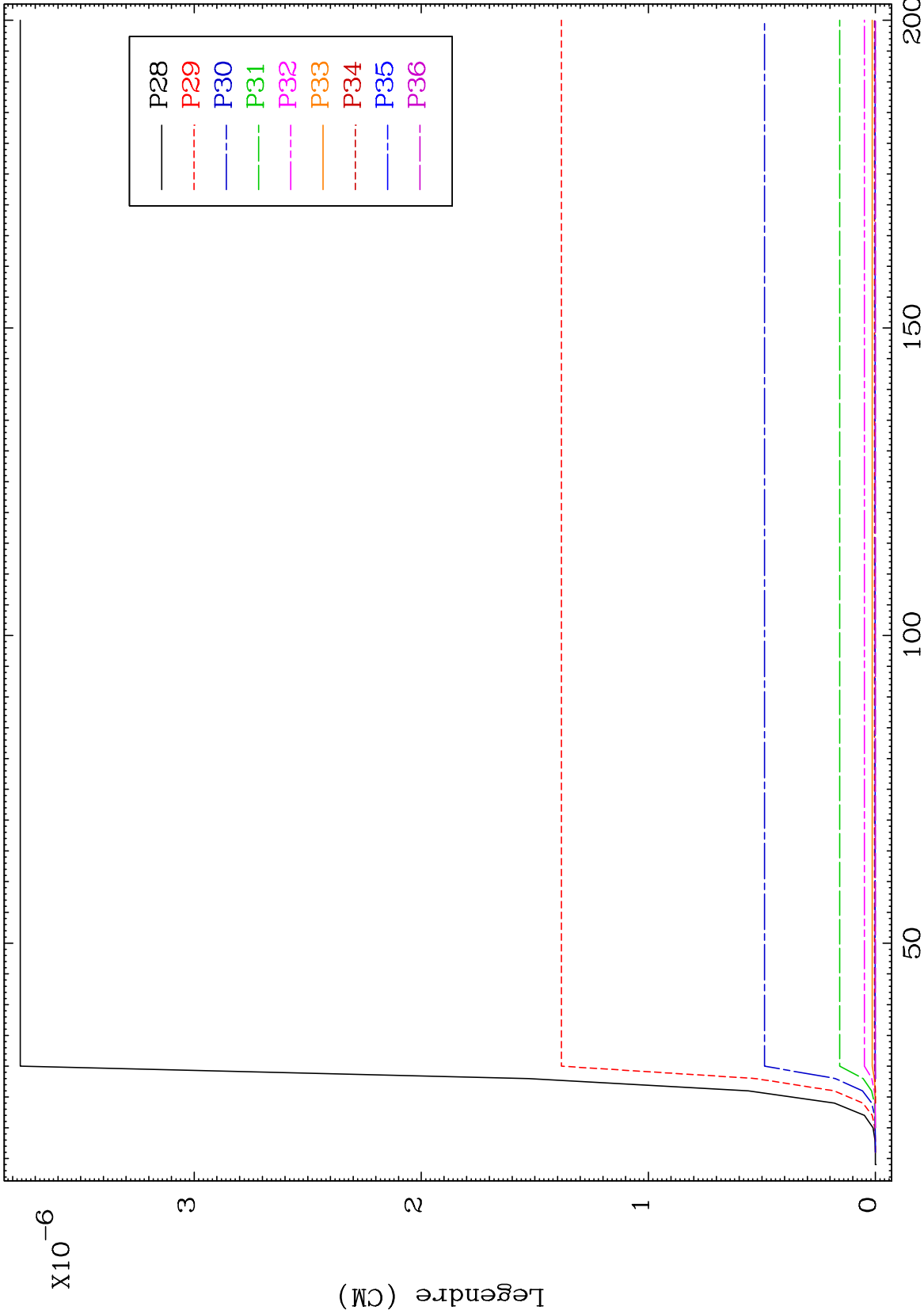
Incident Energy (MeV)

64-Gd-140

MAT 6389

MT= 53 (n,n') Level
Legendre Coefficients

64-Gd-140

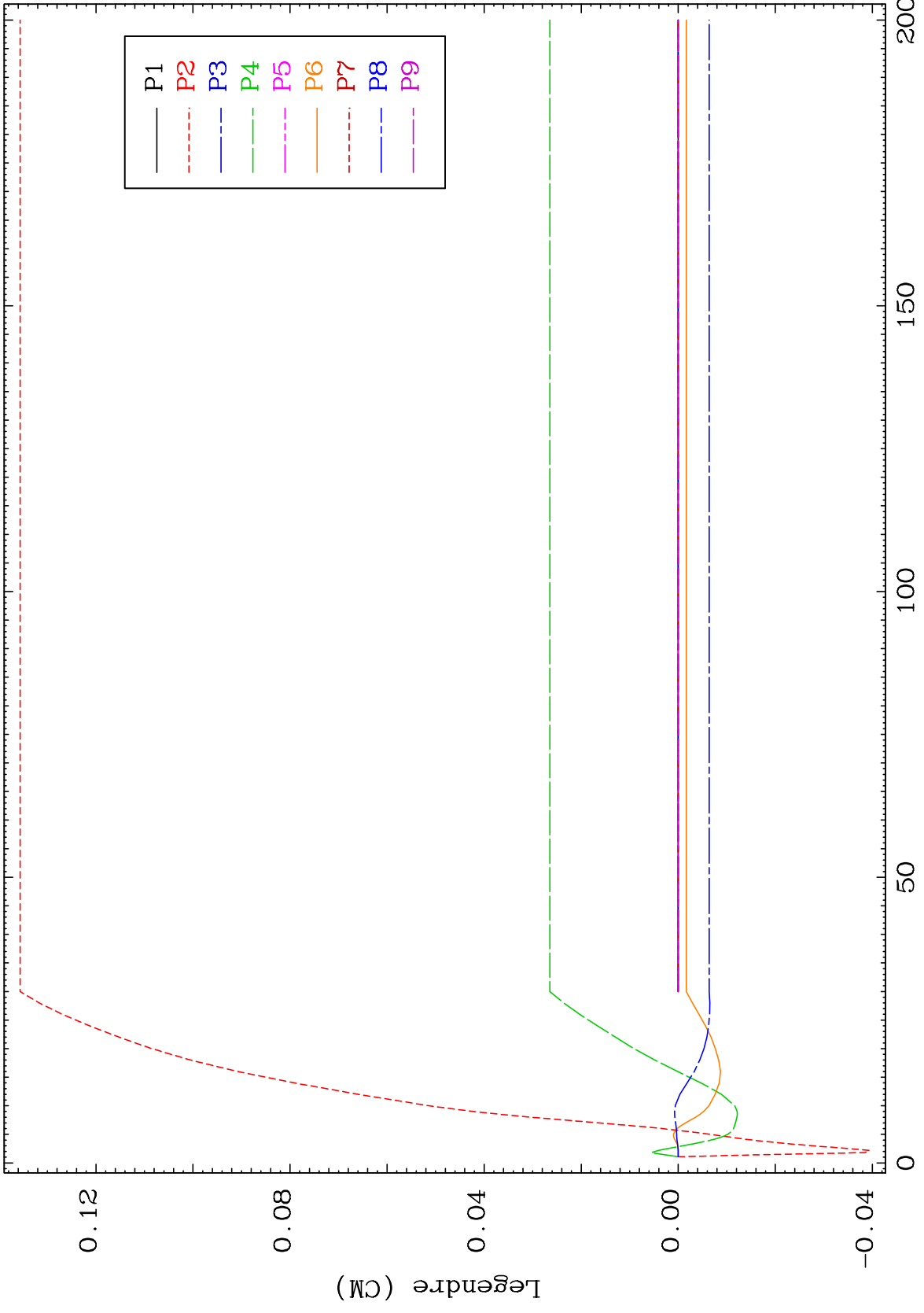


30

Incident Energy (MeV)

64-Gd-140

MAT 6389 MT= 54 (n,n') Level Legendre Coefficients 64-Gd-140

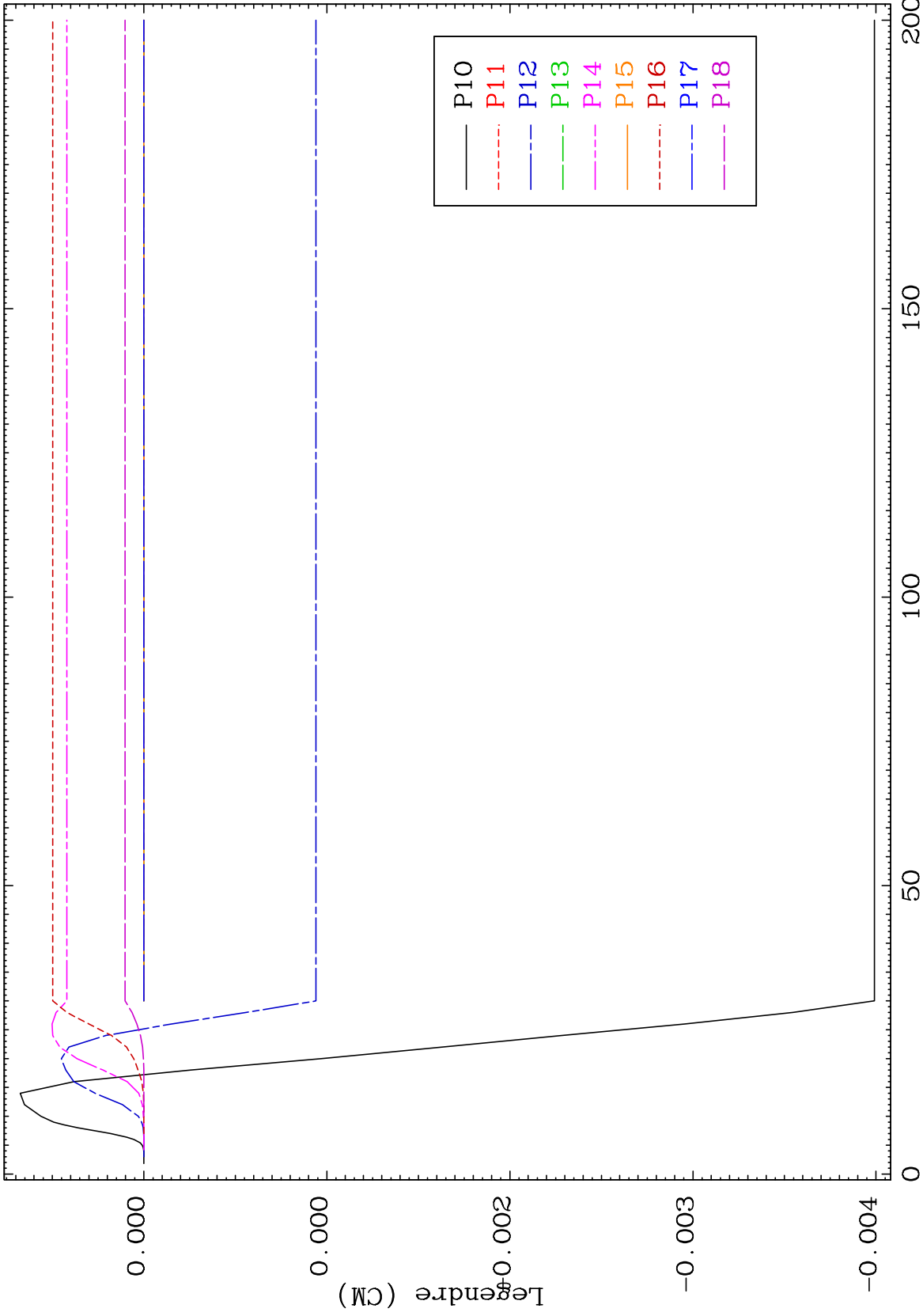


31 64-Gd-140

MAT 6389

MT= 54 (n,n') Level
Legendre Coefficients

64-Gd-140

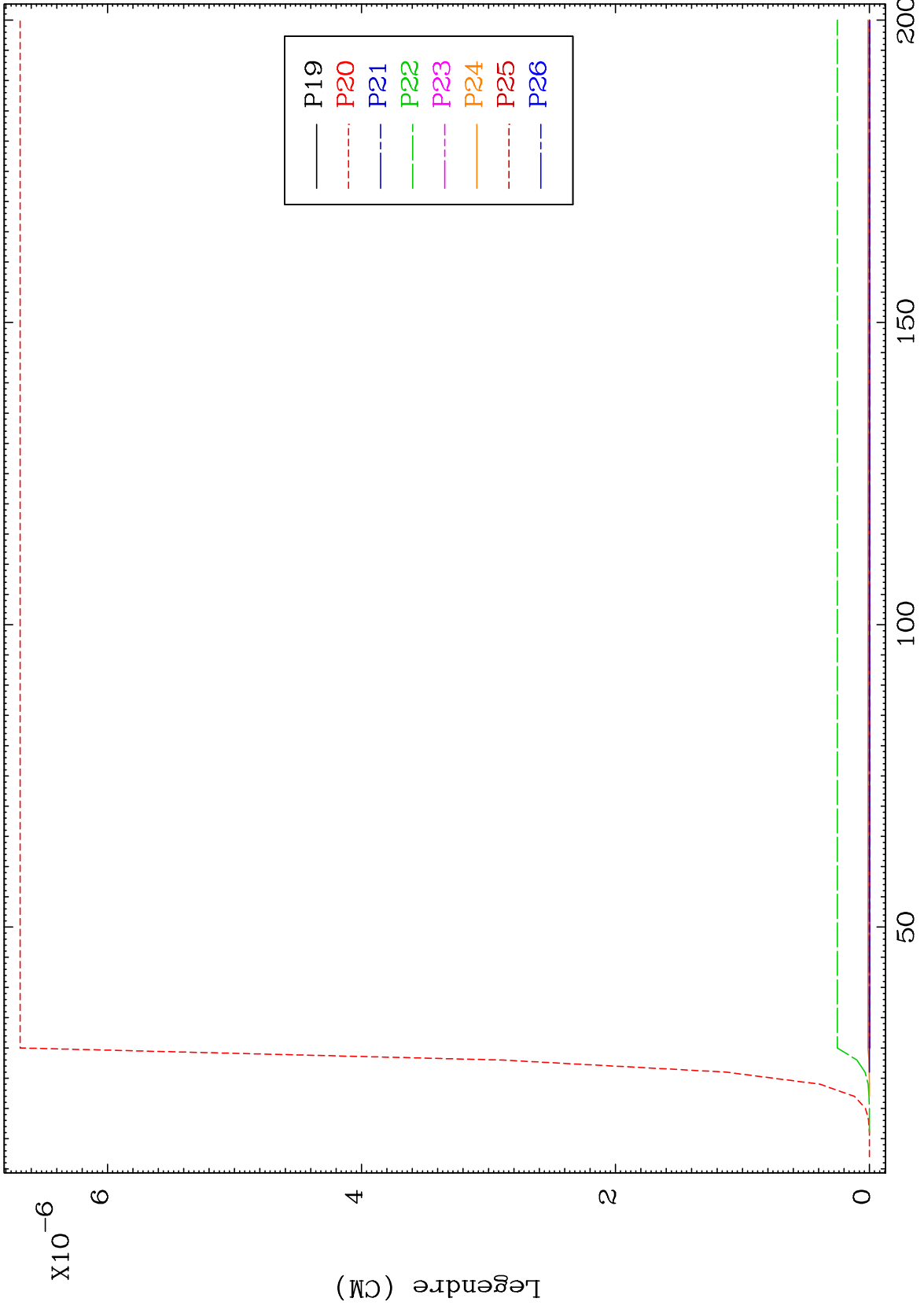


32

Incident Energy (MeV)

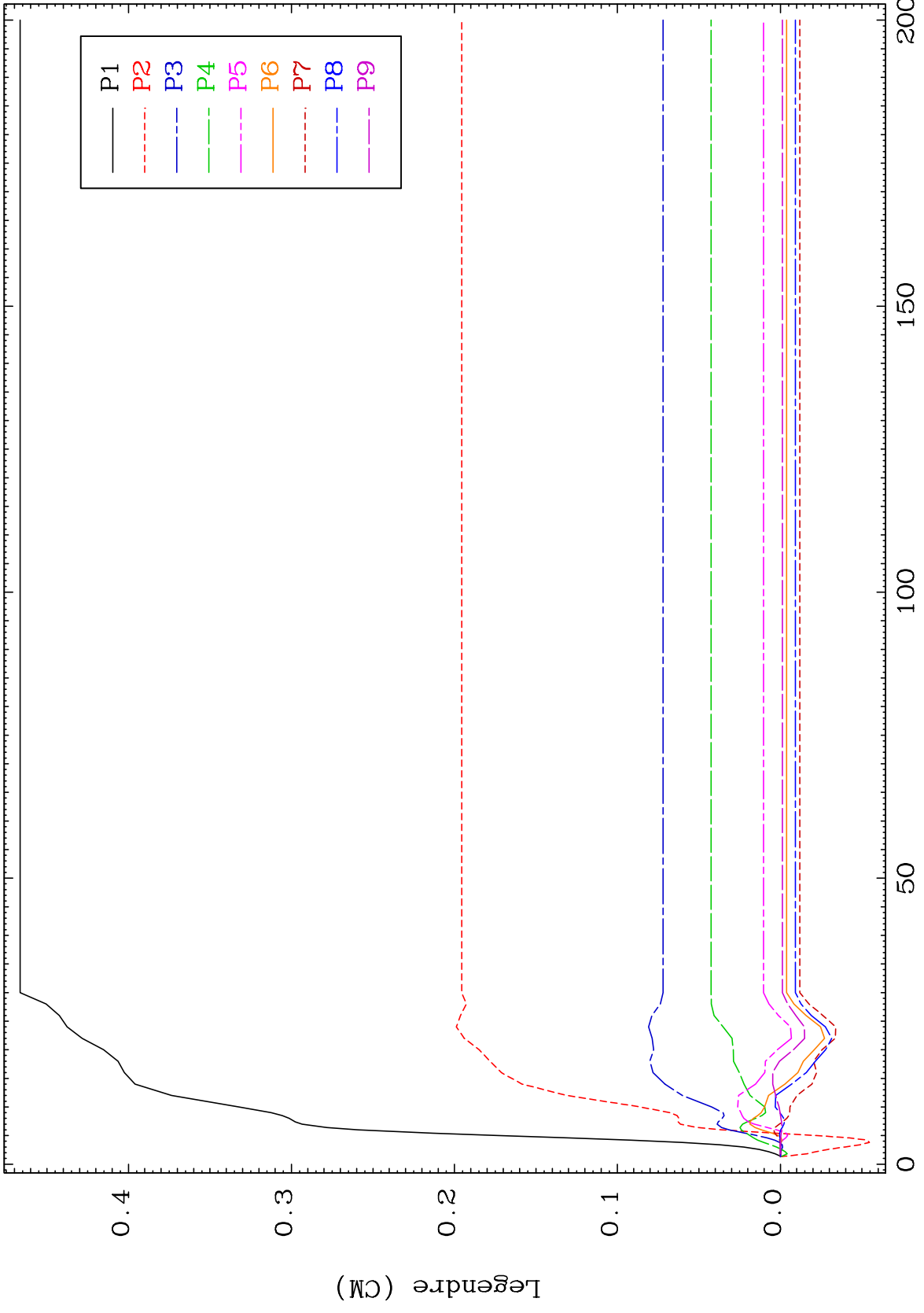
64-Gd-140

MAT 6389 MT= 54 (n,n') Level Legendre Coefficients 64-Gd-140



33 64-Gd-140

MAT 6389 MT= 55 (n,n') Level Legendre Coefficients 64-Gd-140

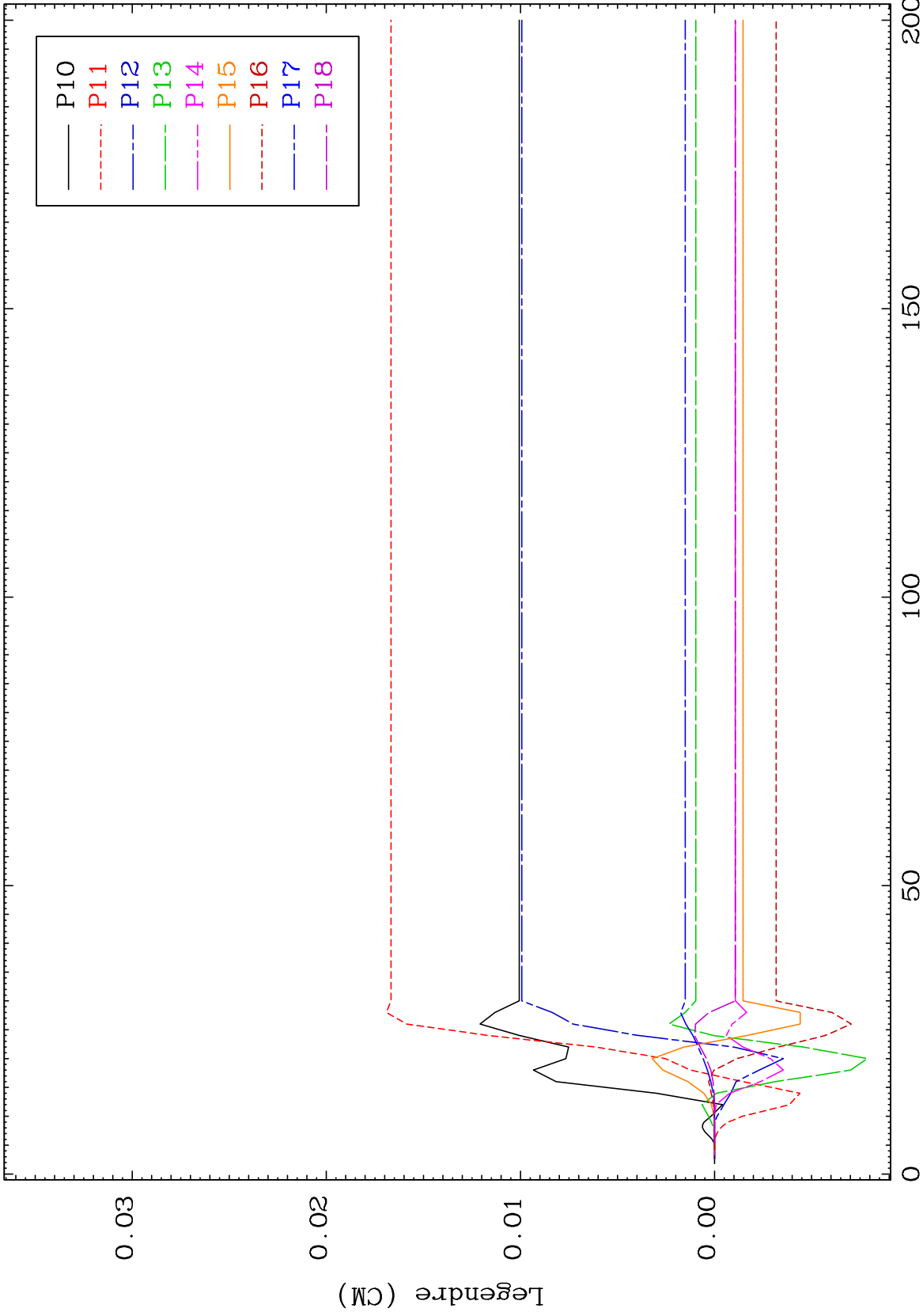


34 64-Gd-140

MAT 6389

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-140



35

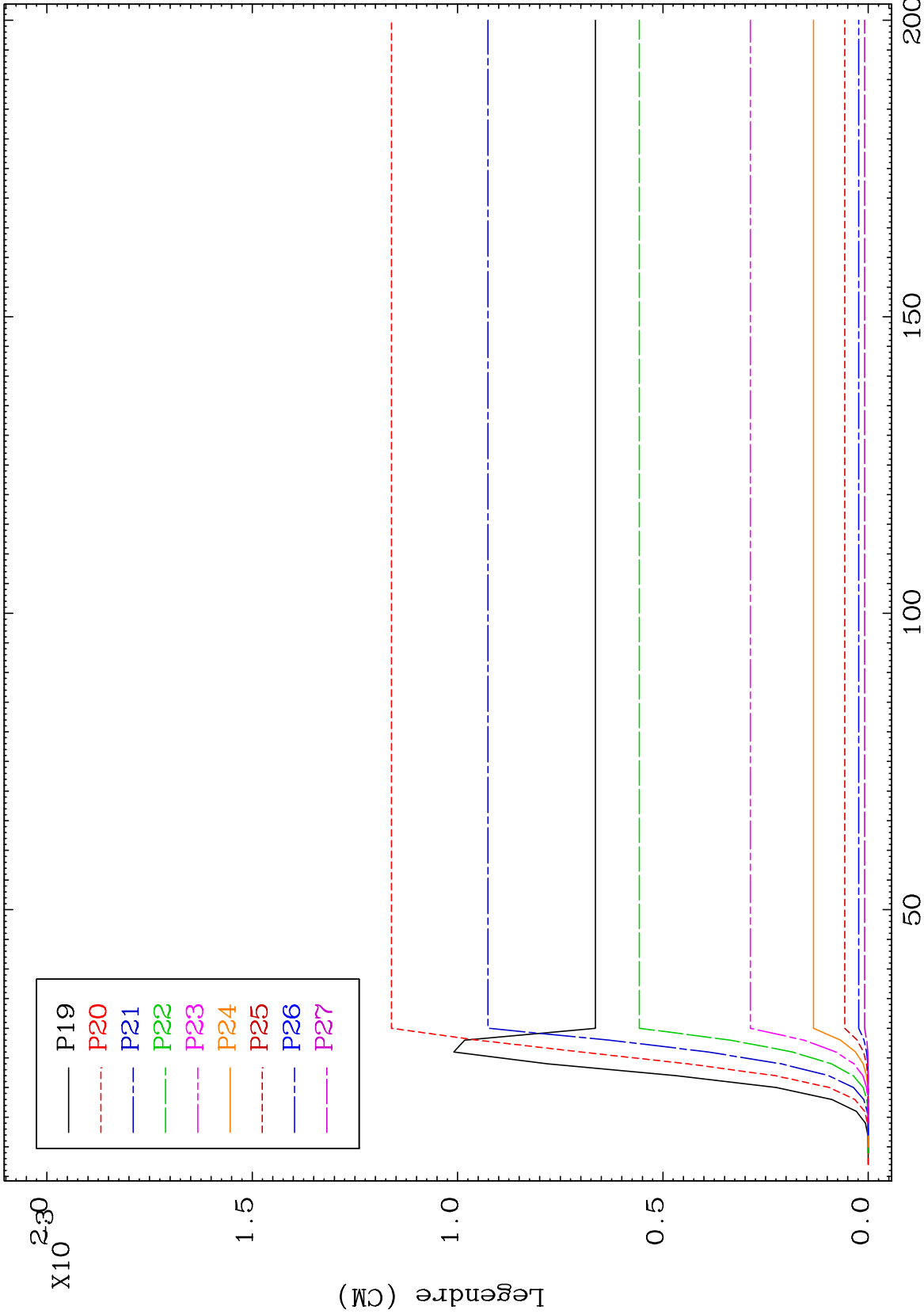
Incident Energy (MeV)

64-Gd-140

MAT 6389

MT= 55 (n,n') Level
Legendre Coefficients

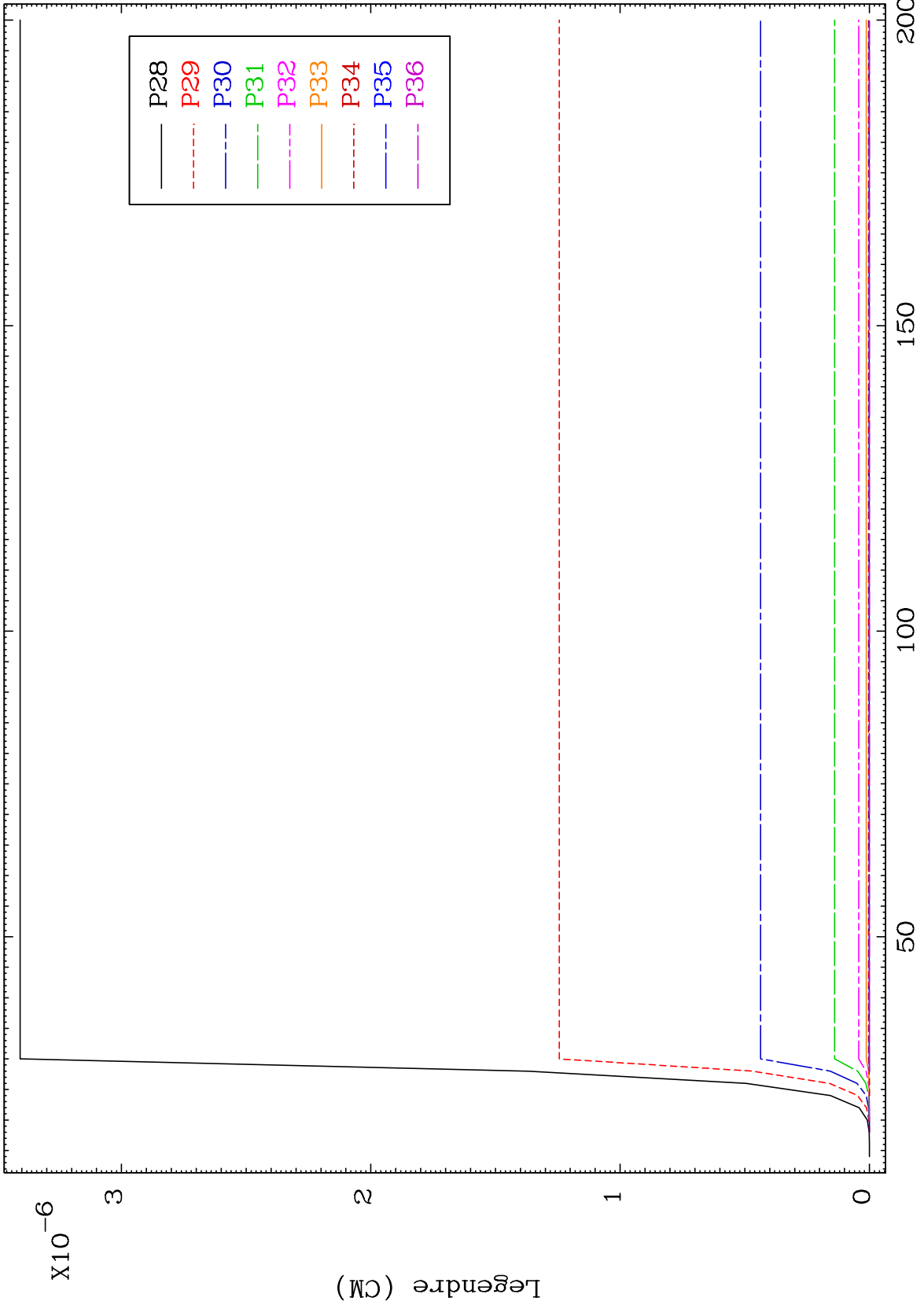
64-Gd-140



MAT 6389

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-140



37

Incident Energy (MeV)

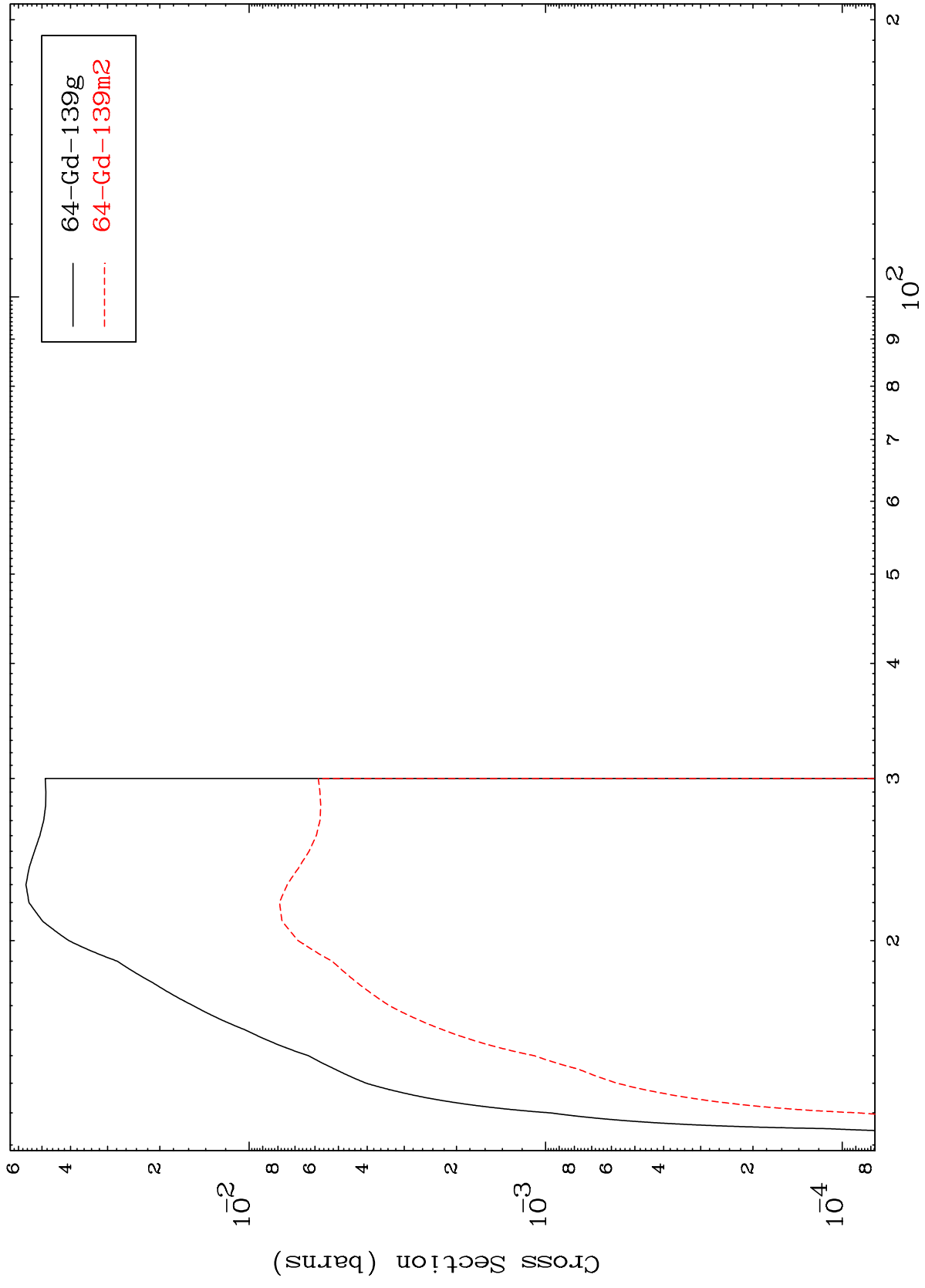
64-Gd-140

MAT 6389

(n,2n)

64-Gd-140

Radionuclide Production Cross Section



64-Gd-139g
64-Gd-139m2

38

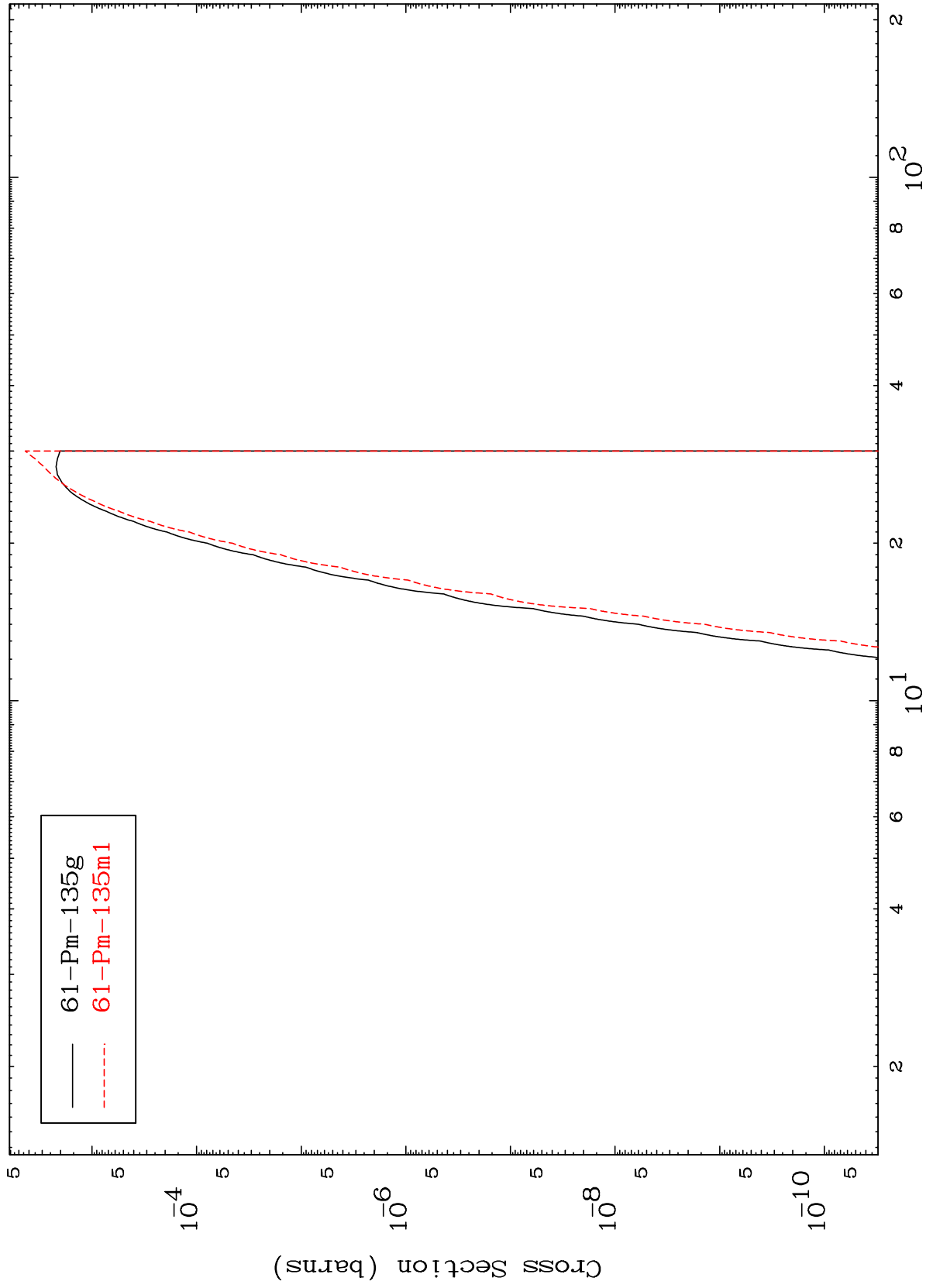
Incident Energy (MeV)

64-Gd-140

MAT 6389

64-Gd-140

(n,n') p α
Radionuclide Production Cross Section



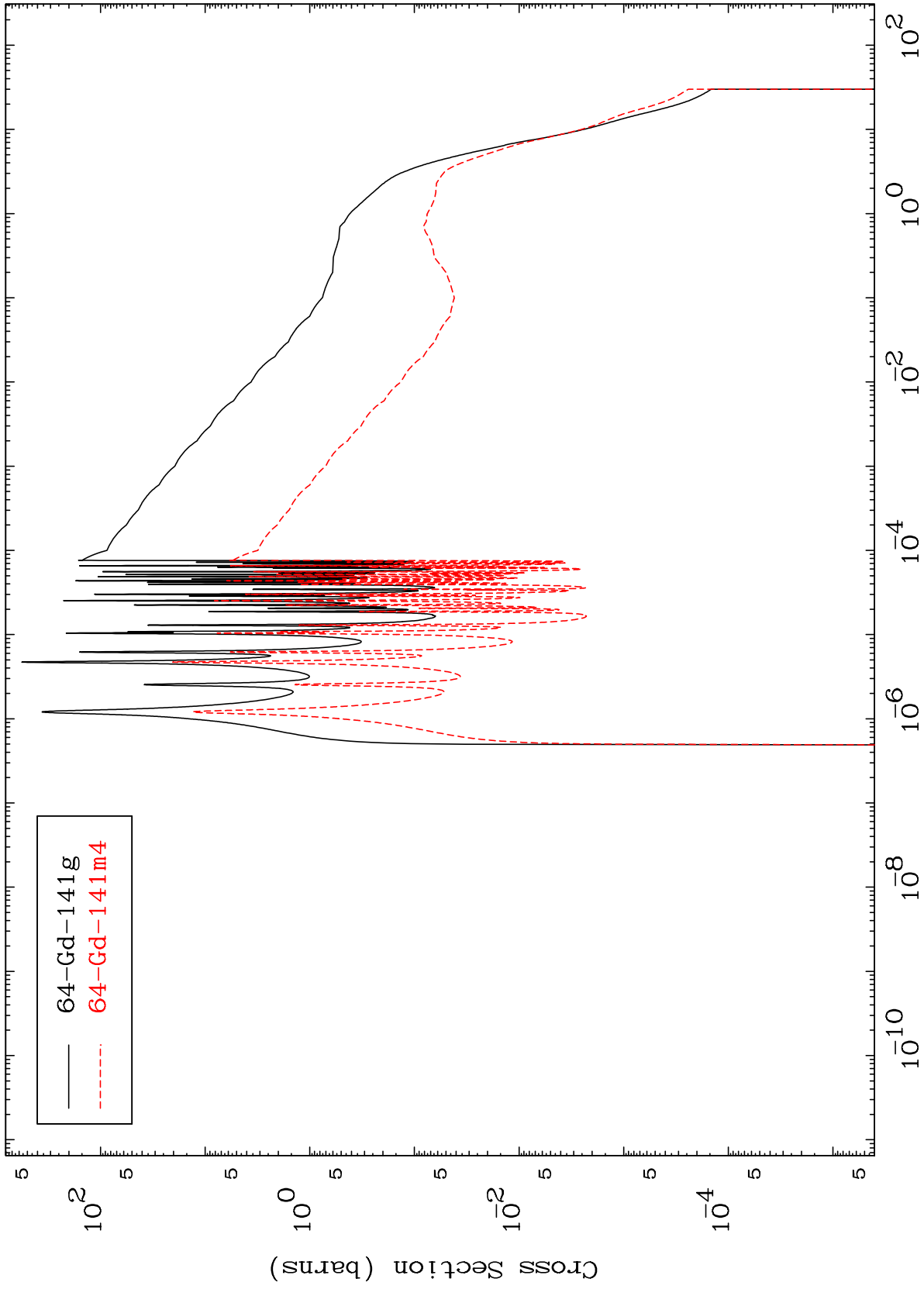
39

64-Gd-140

MAT 6389

64-Gd-140

Radionuclide Production Cross Section (n,γ)



40

Incident Energy (MeV)

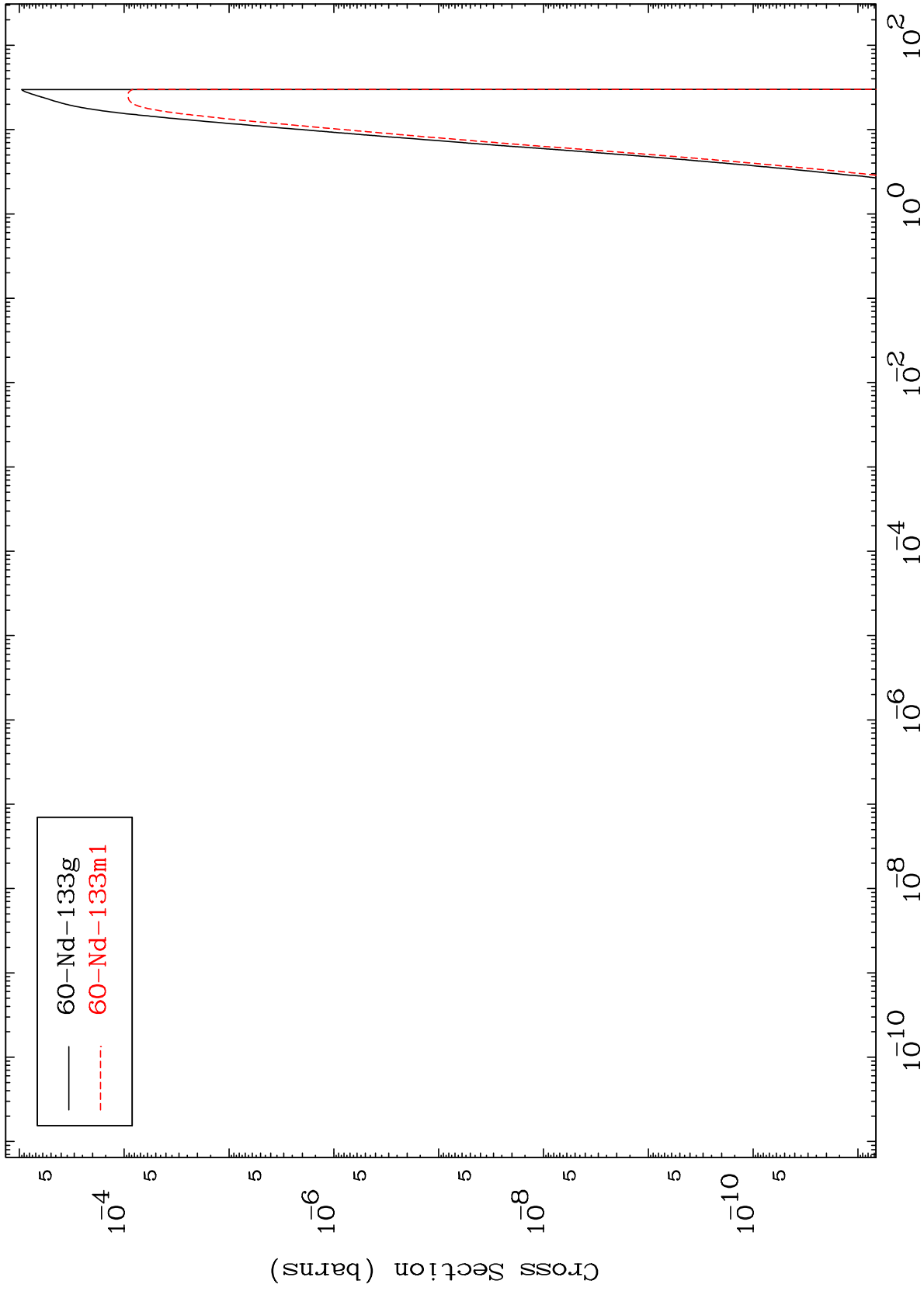
64-Gd-140

MAT 6389

(n,2α)

64-Gd-140

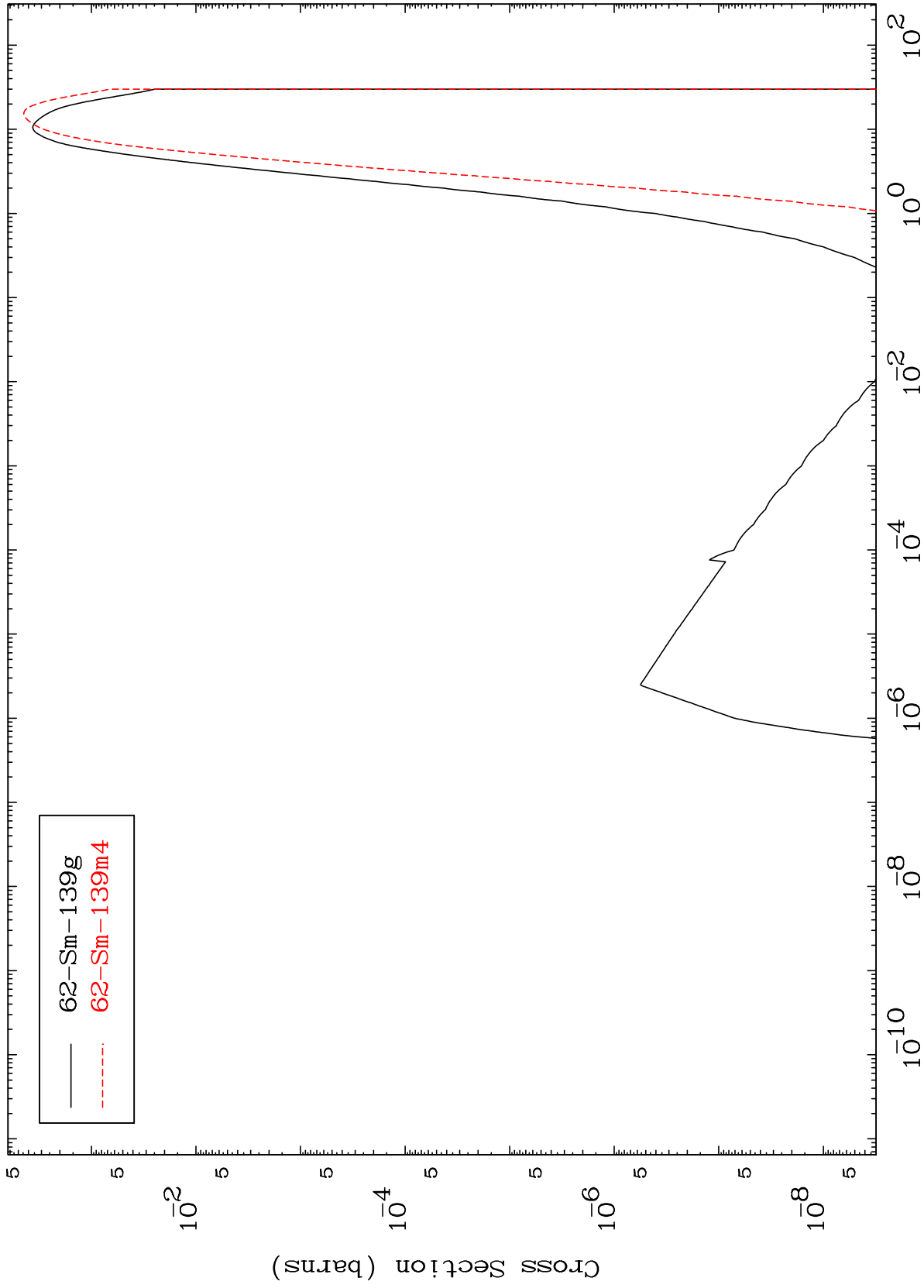
Radionuclide Production Cross Section



MAT 6389

Radionuclide Production Cross Section
(n,2p)

64-Gd-140



42

Incident Energy (MeV)

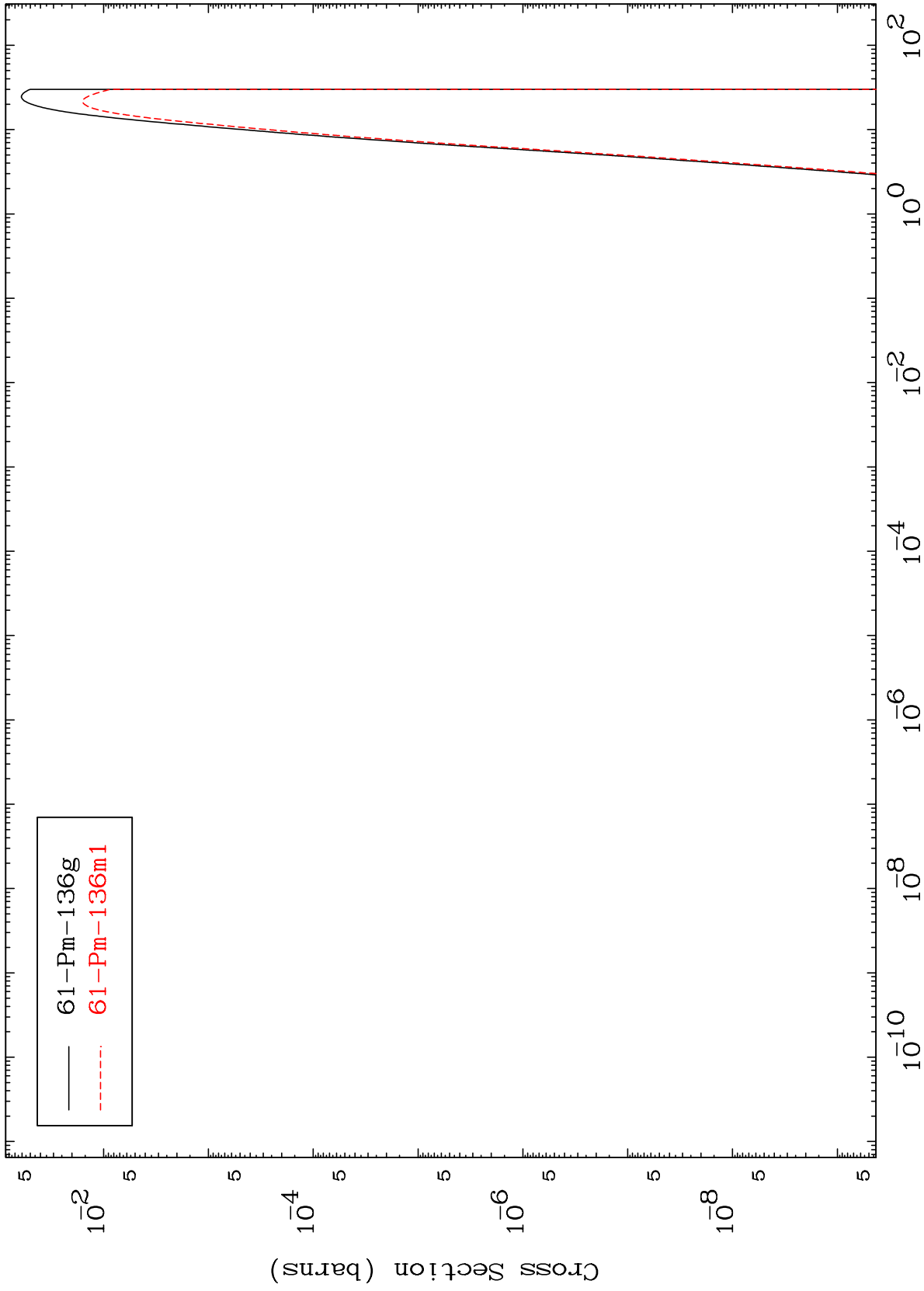
64-Gd-140

MAT 6389

(n,p) α

64-Gd-140

Radionuclide Production Cross Section



43

Incident Energy (MeV)

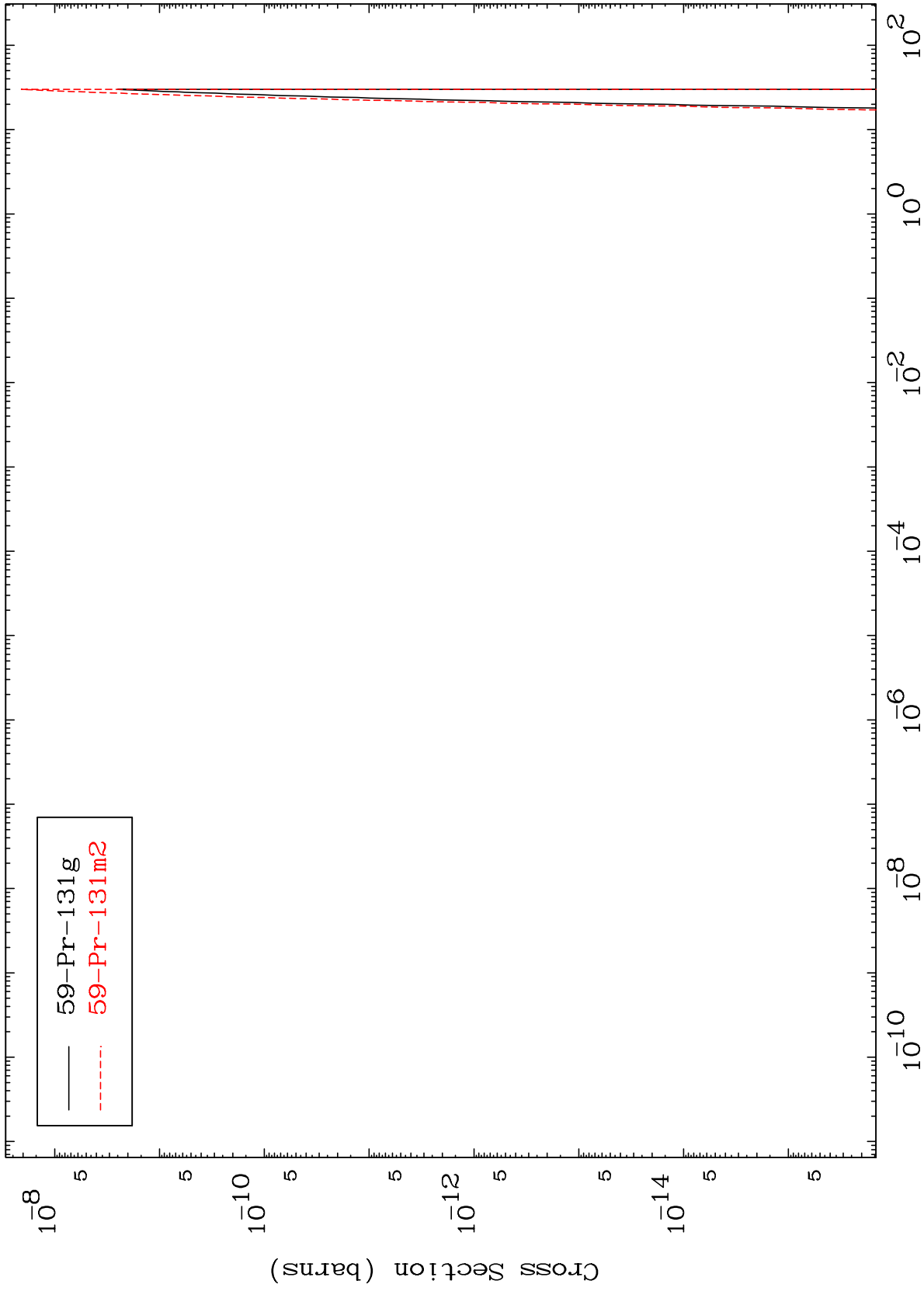
64-Gd-140

MAT 6389

(n,d) 2α

$^{64}\text{Gd}-140$

Radionuclide Production Cross Section

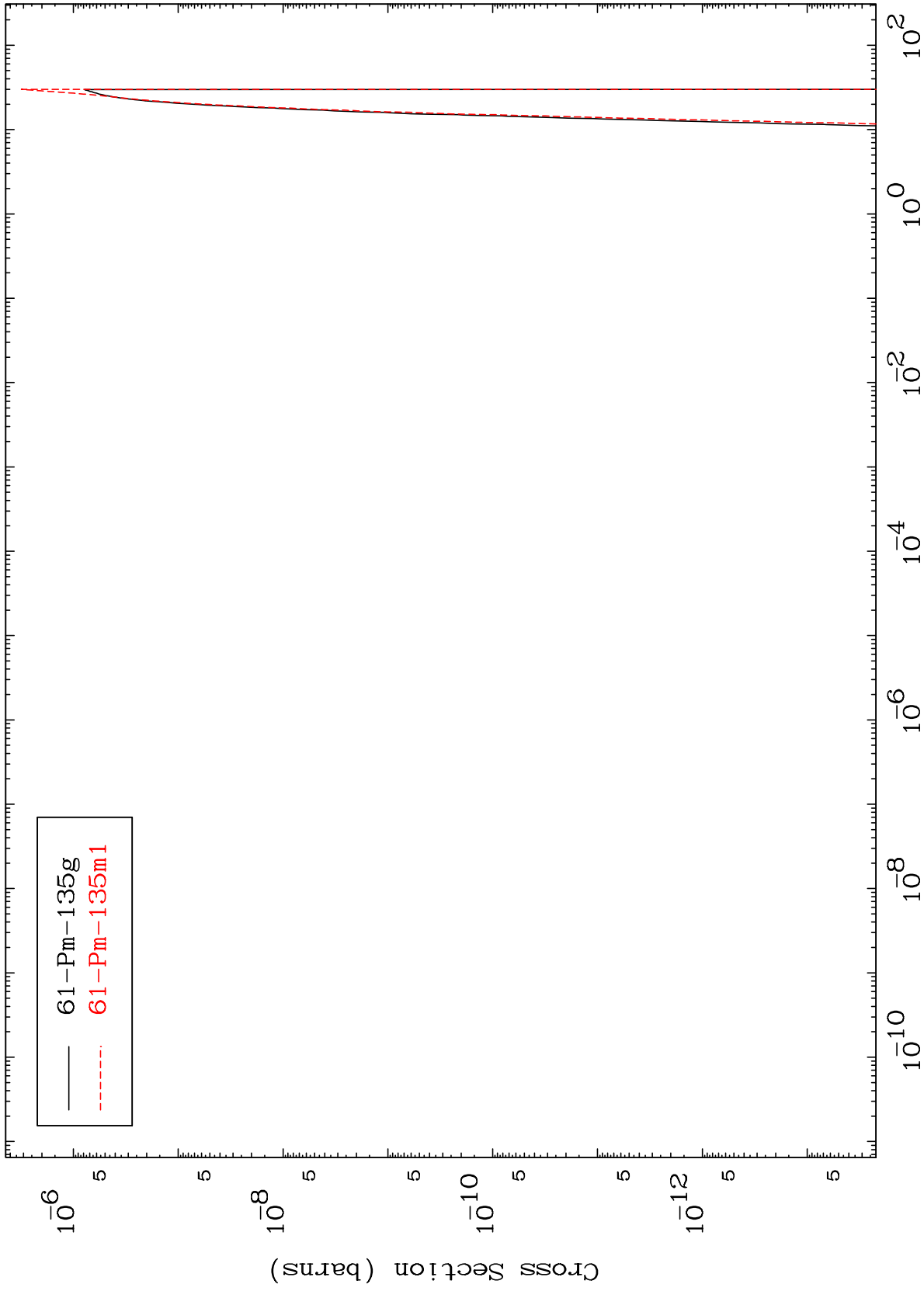


MAT 6389

(n,d) α

64-Gd-140

Radionuclide Production Cross Section



45

Incident Energy (MeV)

64-Gd-140