

Program EVALPLOT
(Version 2015-2)

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:home.comcast.net/~redcullen1

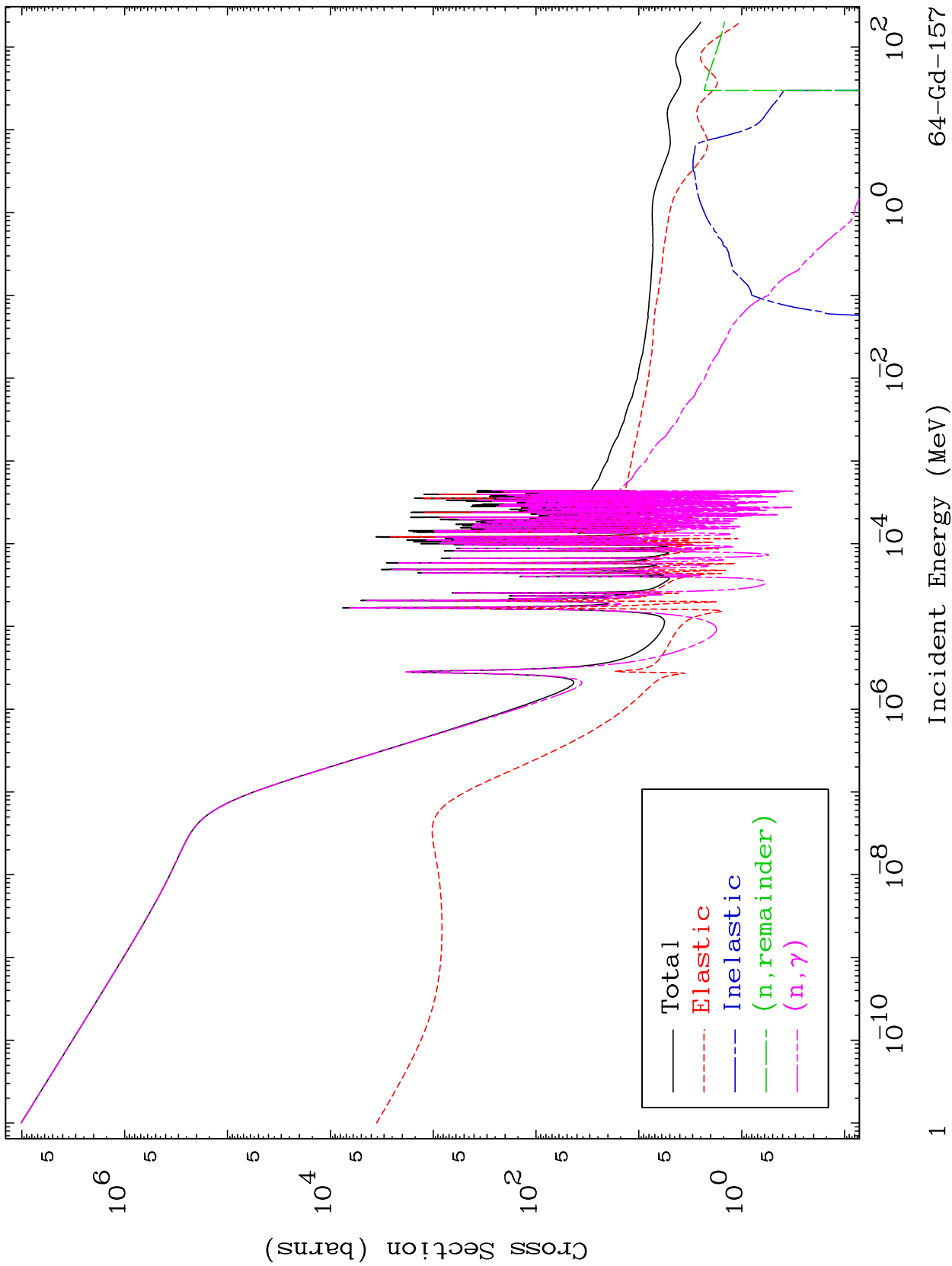
Press Mouse Button to Start

MAT 6440

Major

64-Gd-157

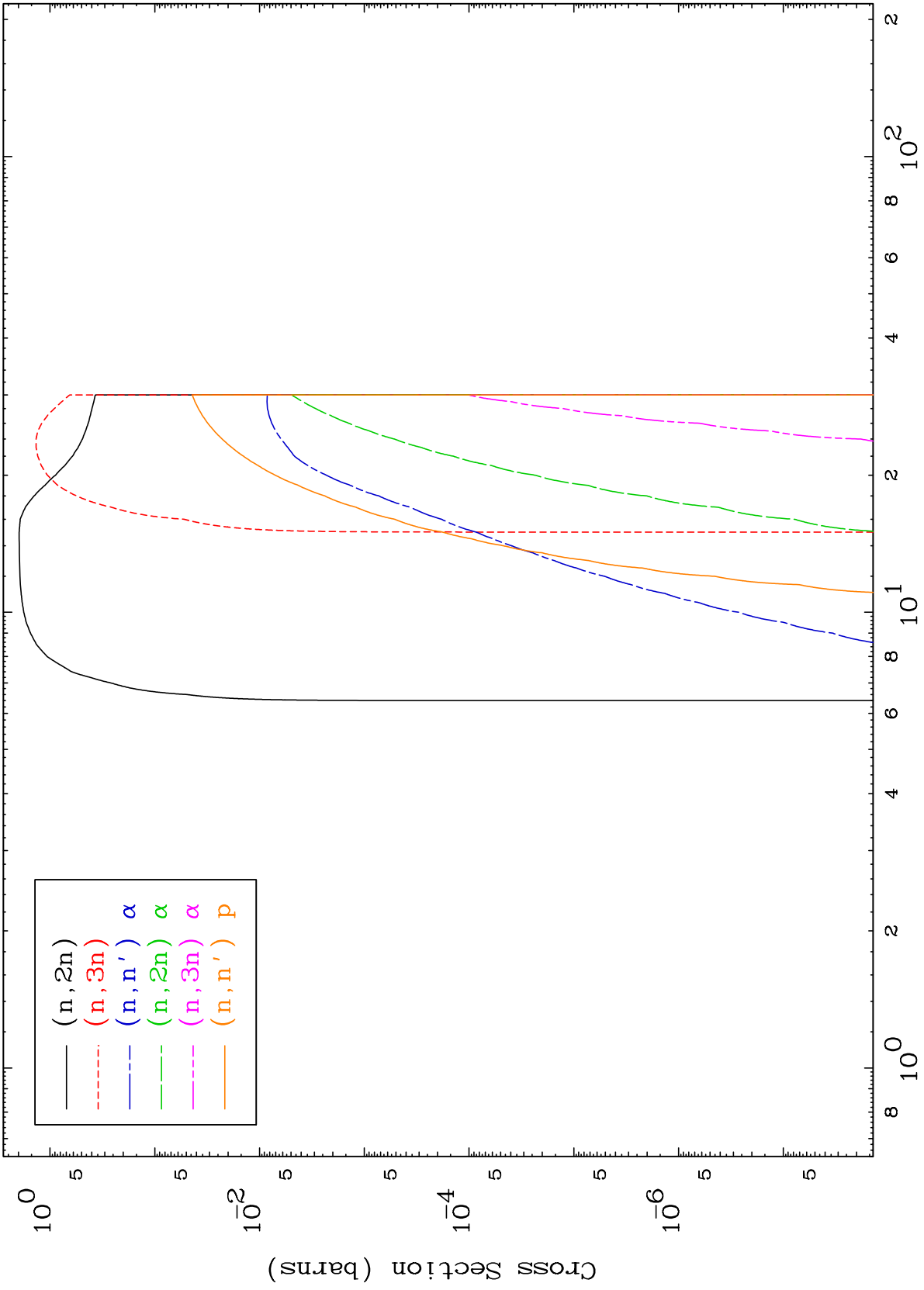
293 Kelvin Cross Sections



MAT 6440

Neutron Production
293 Kelvin Cross Sections

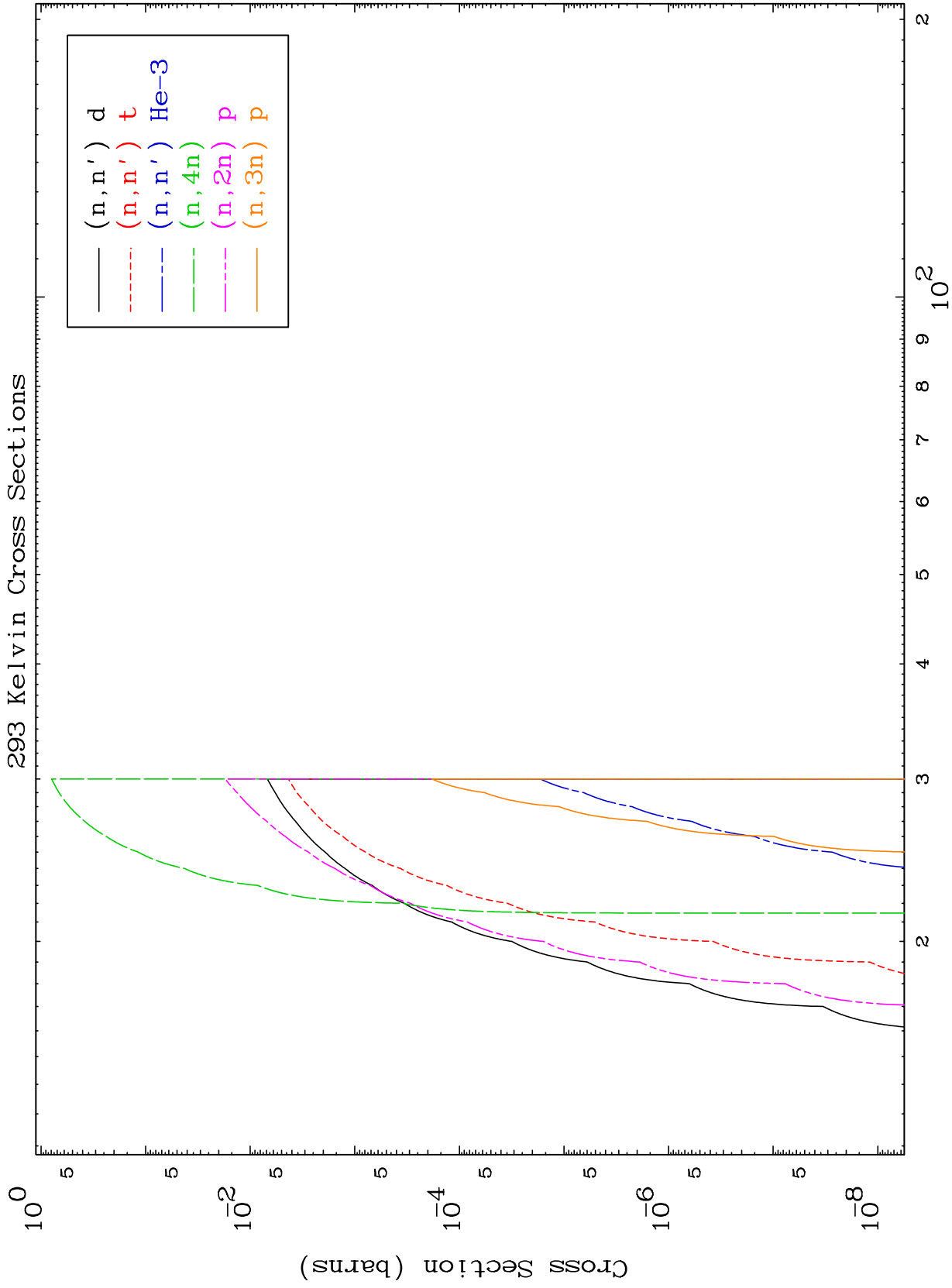
64-Gd-157



2

Incident Energy (MeV)

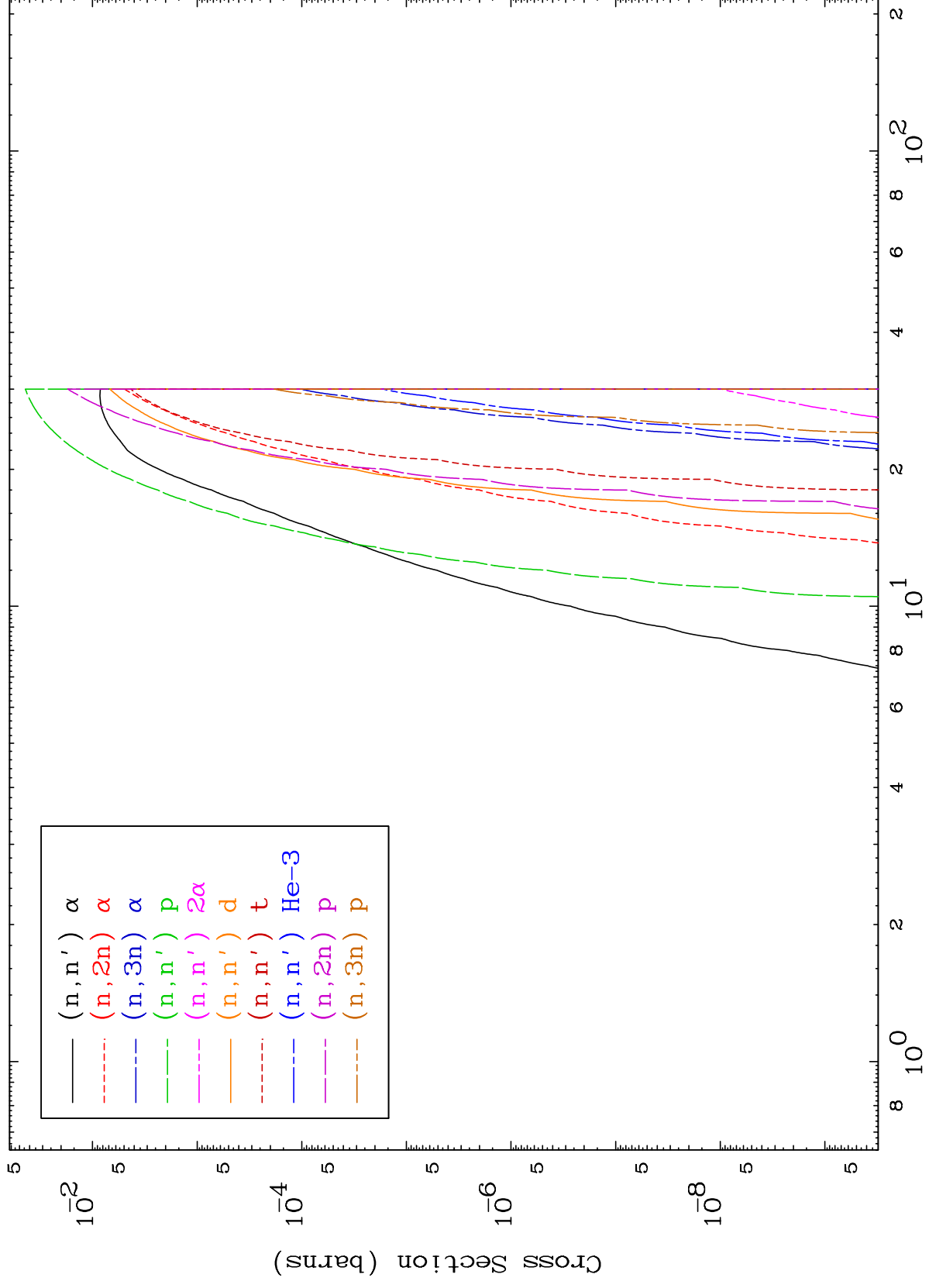
64-Gd-157



MAT 6440

Charged Particle
293 Kelvin Cross Sections

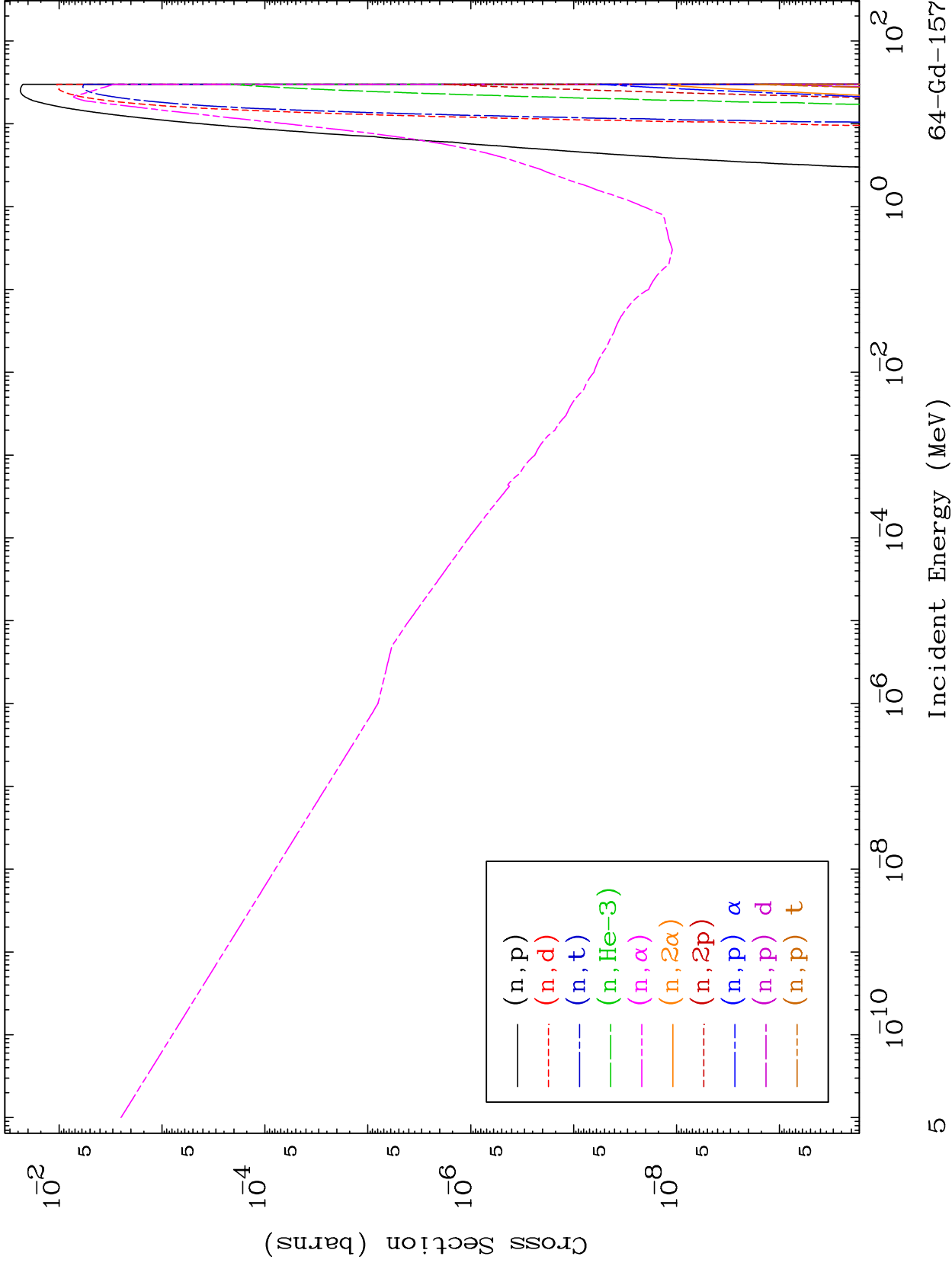
64-Gd-157



MAT 6440

Charged Particle
293 Kelvin Cross Sections

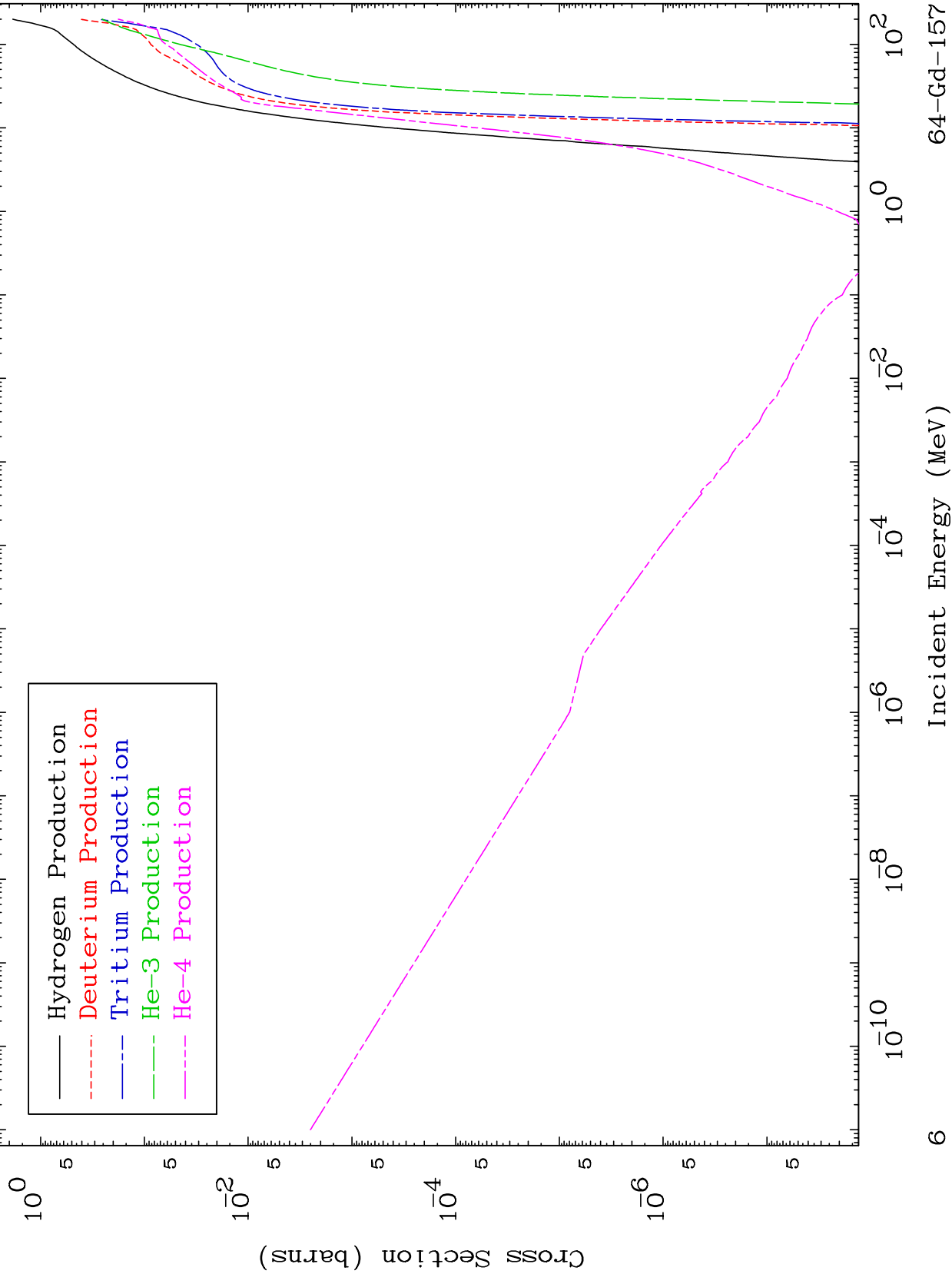
64-Gd-157



MAT 6440

Particle Production
293 Kelvin Cross Sections

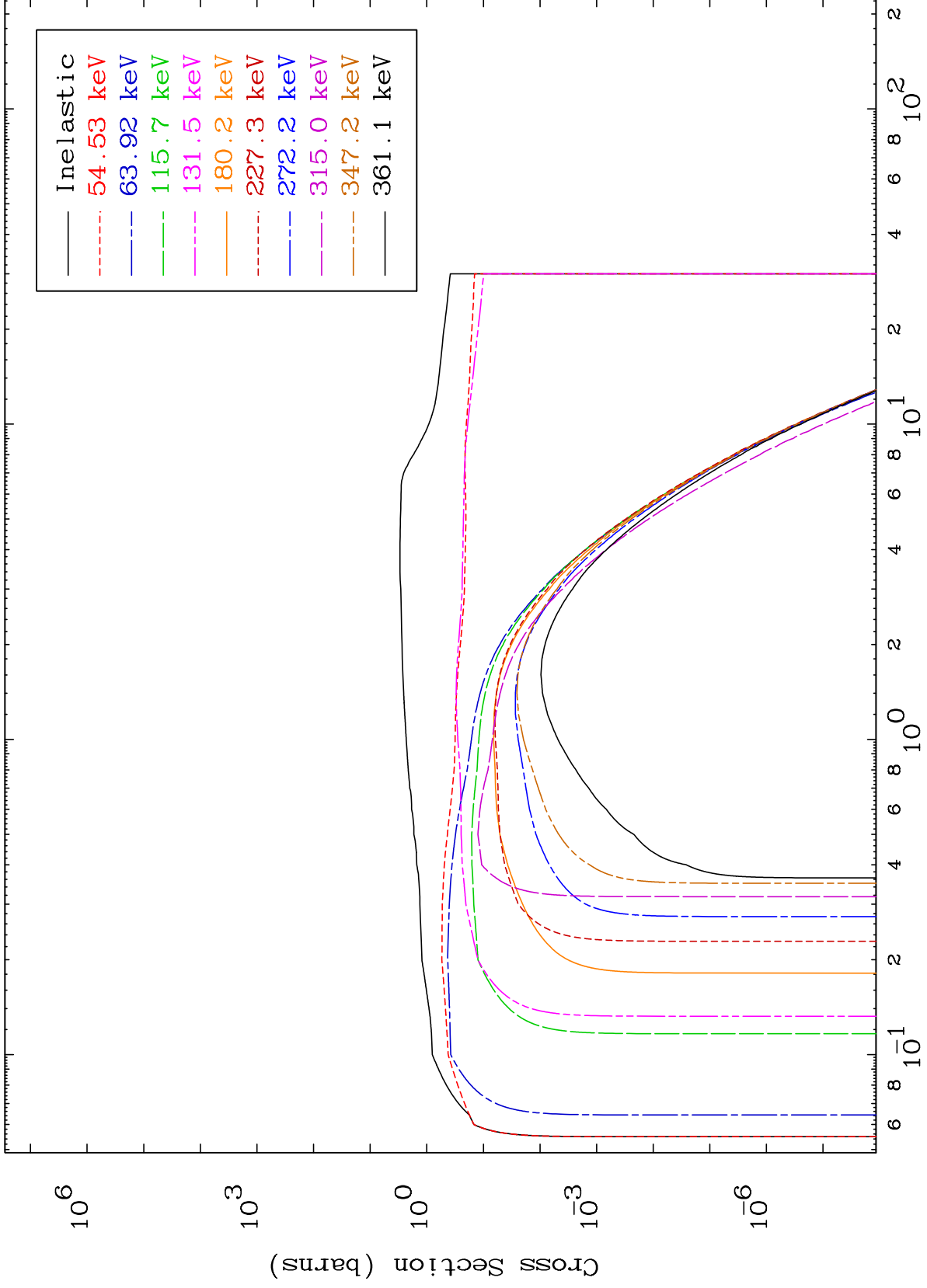
64-Gd-157



MAT 6440

(n,n') Level
293 Kelvin Cross Sections

64-Gd-157

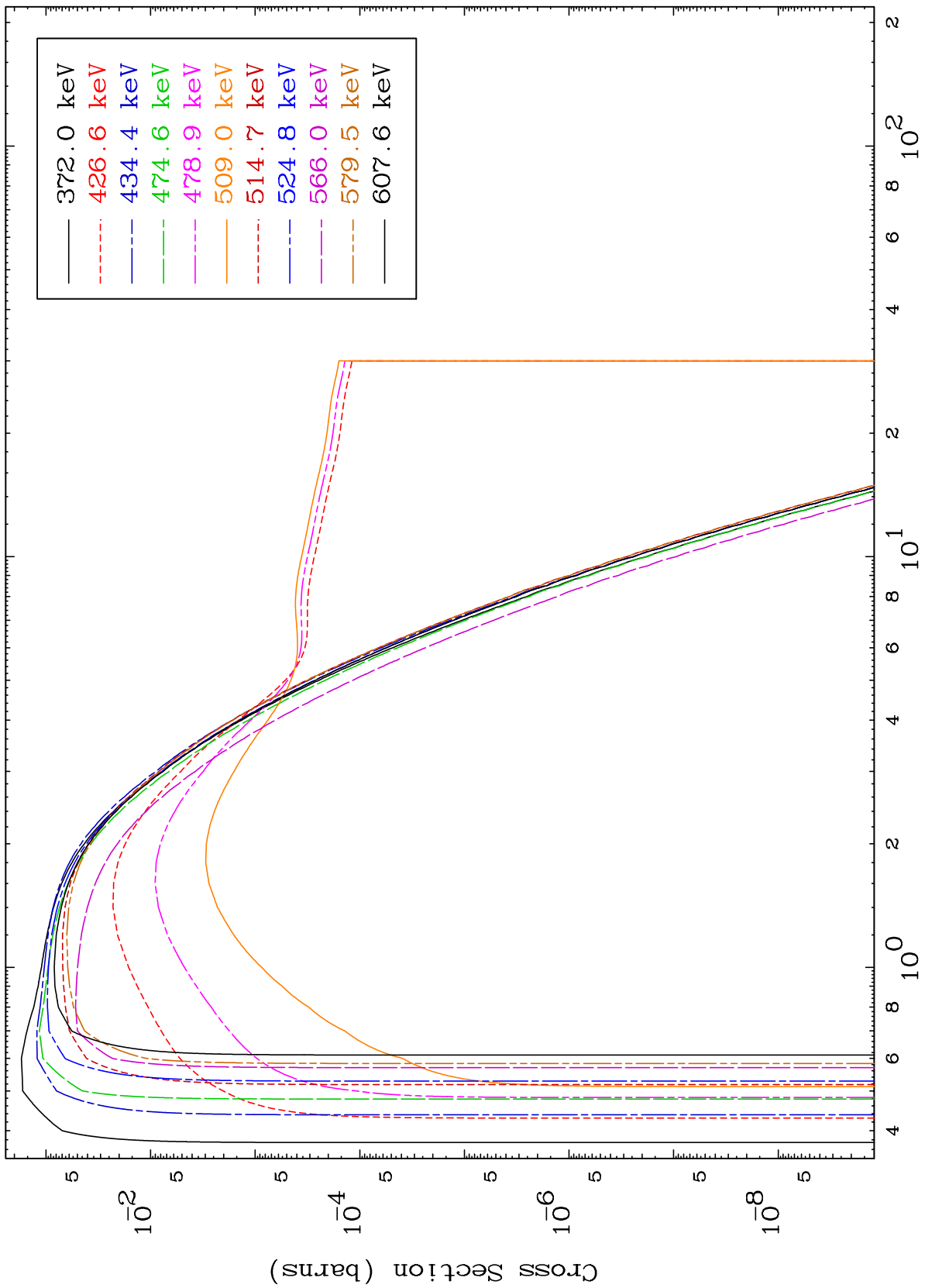


MAT 6440

(n,n') Level

64-Gd-157

293 Kelvin Cross Sections



8

Incident Energy (MeV)

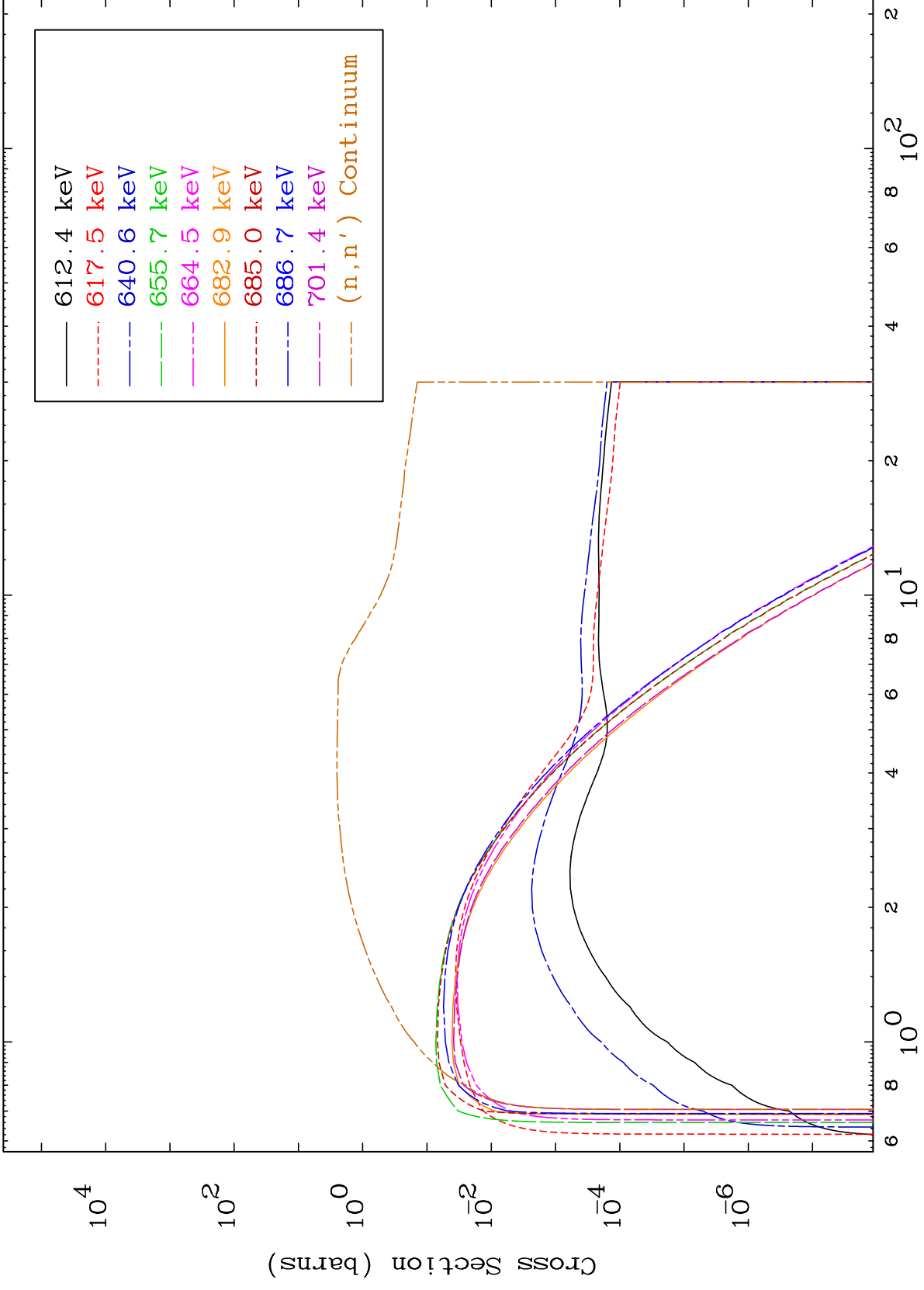
64-Gd-157

MAT 6440

(n,n') Level

64-Gd-157

293 Kelvin Cross Sections



9

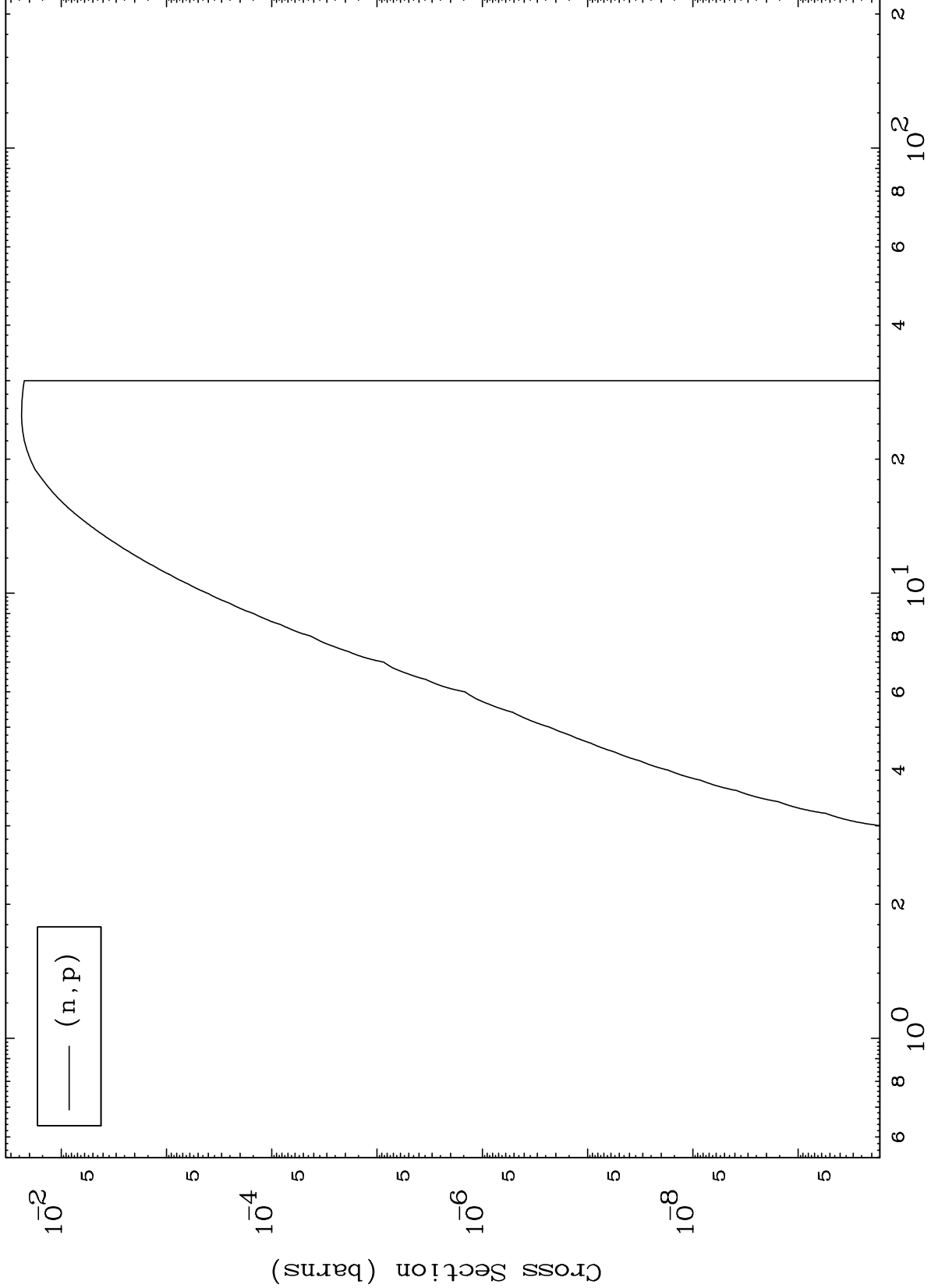
Incident Energy (MeV)

64-Gd-157

MAT 6440

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-157



10

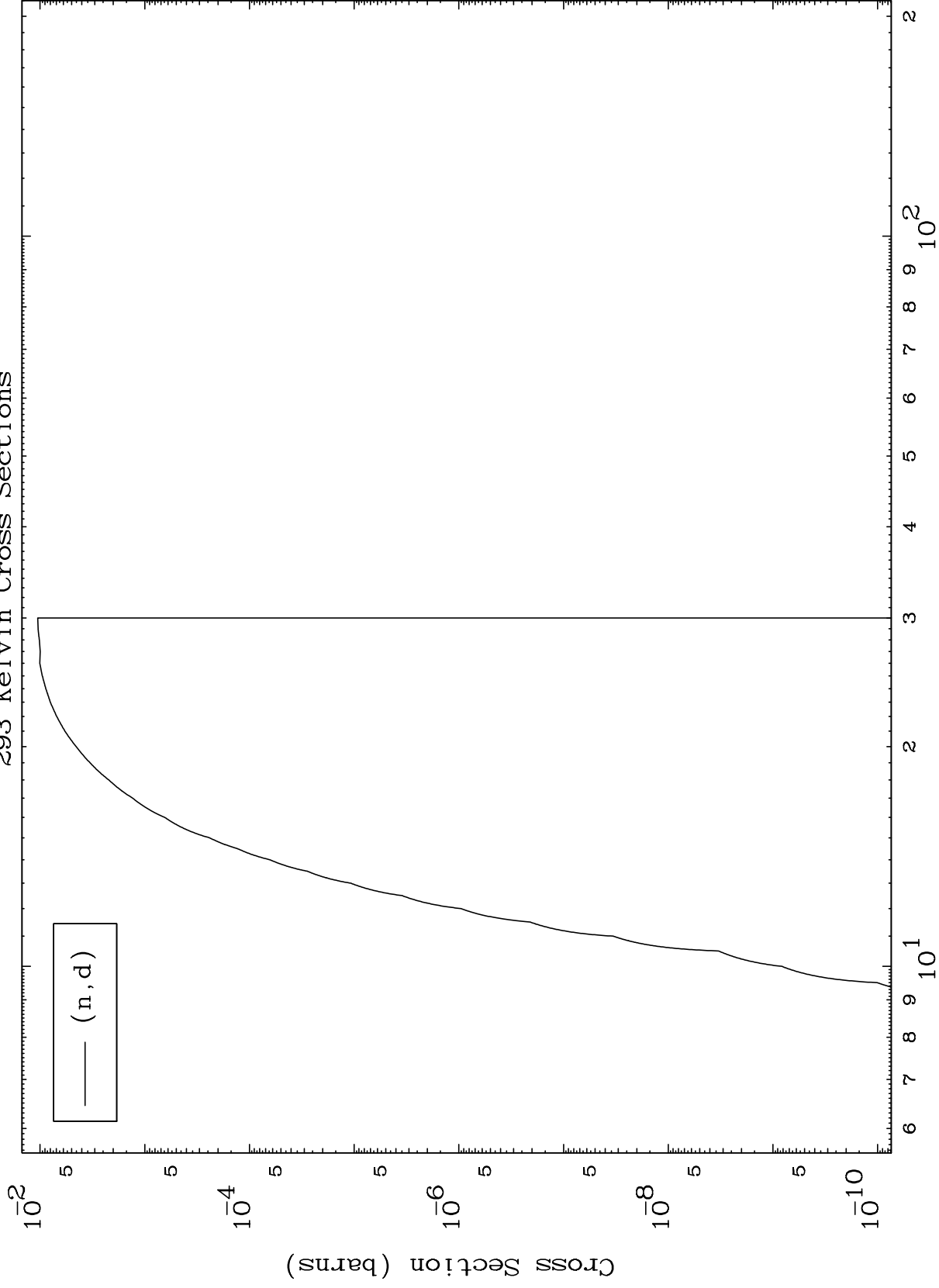
Incident Energy (MeV)

64-Gd-157

MAT 6440

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-157



11

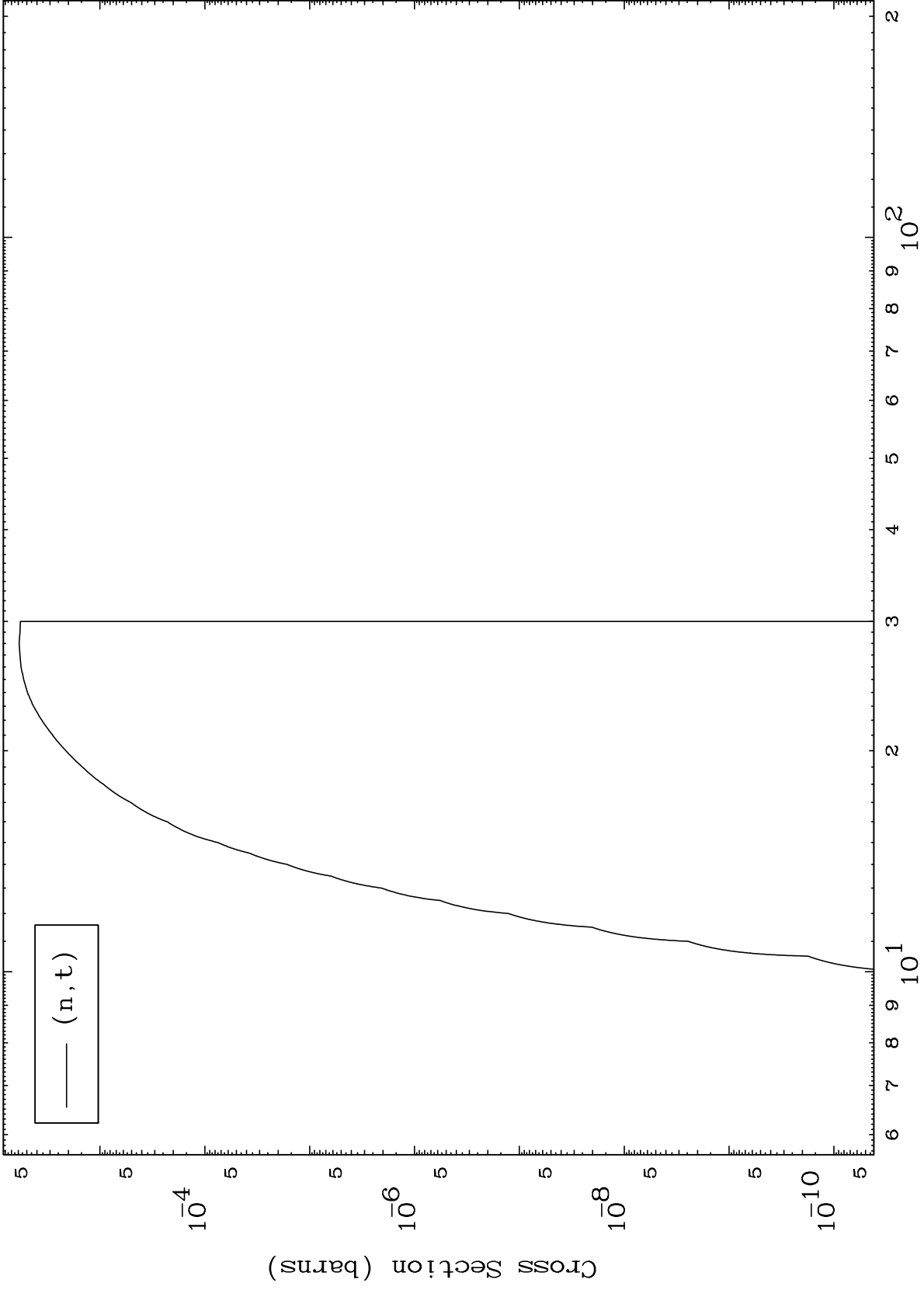
Incident Energy (MeV)

64-Gd-157

MAT 6440

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-157



12

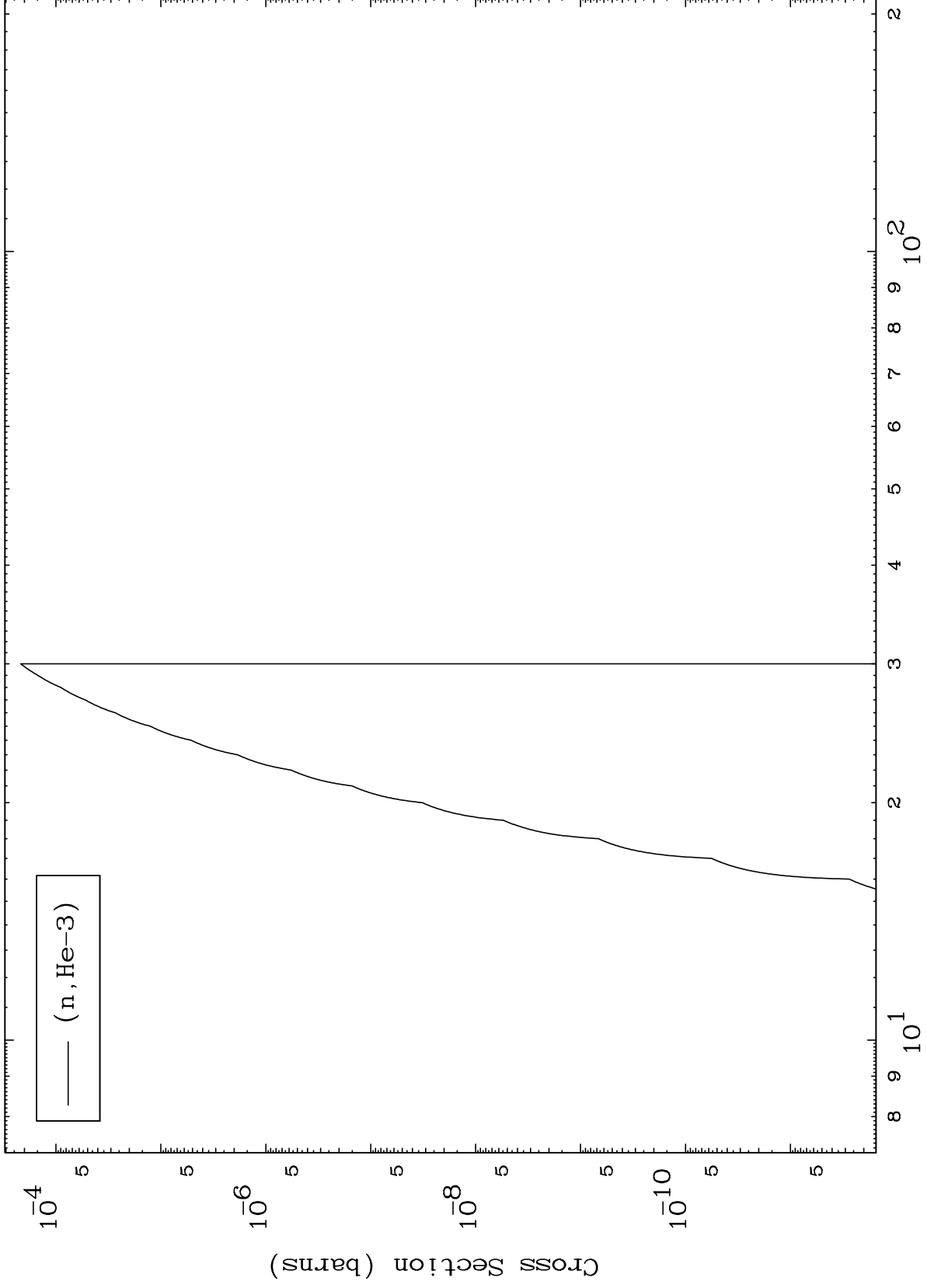
Incident Energy (MeV)

64-Gd-157

MAT 6440

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-157



13

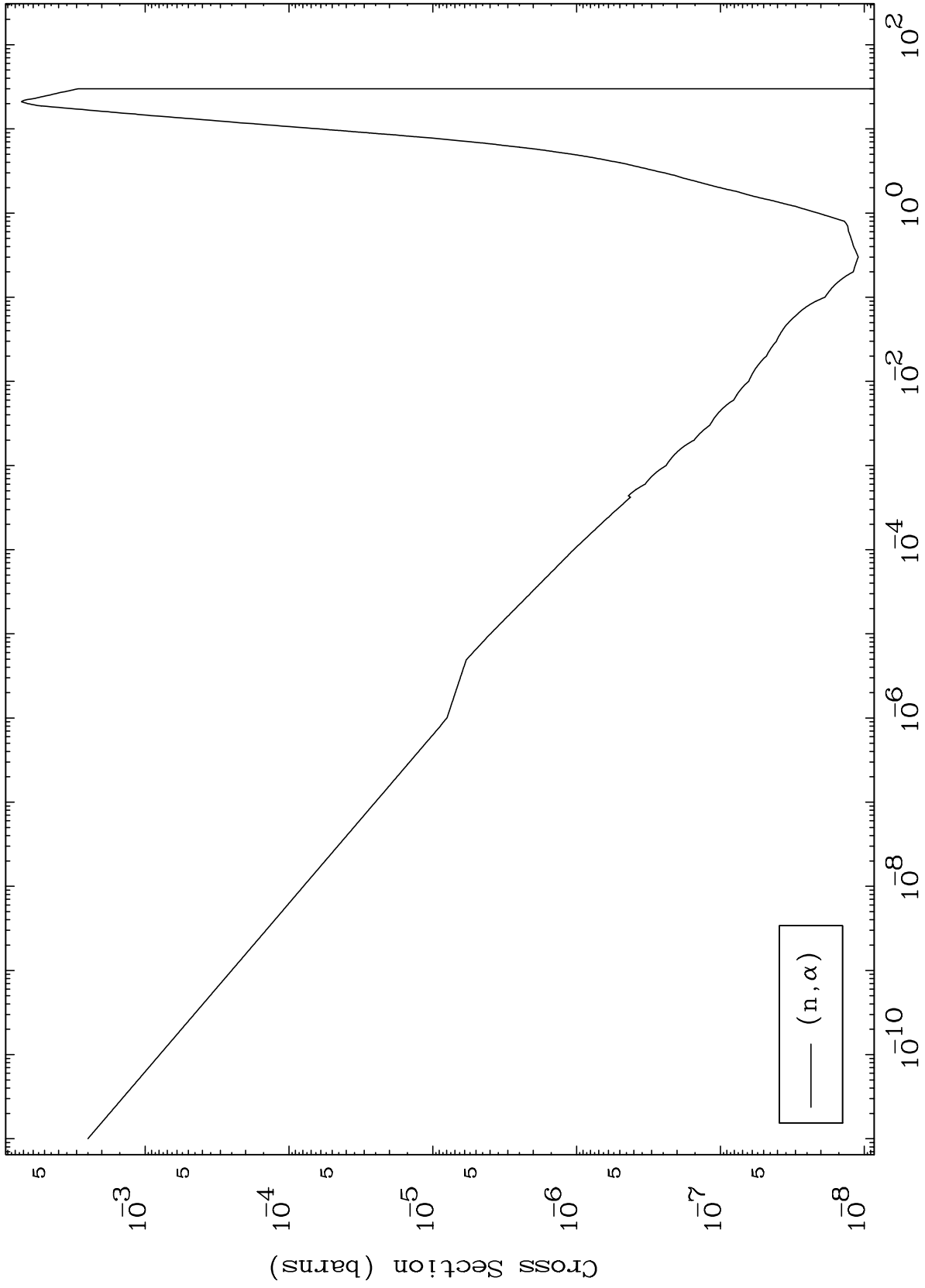
Incident Energy (MeV)

64-Gd-157

MAT 6440

(n,α) Levels
293 Kelvin Cross Sections

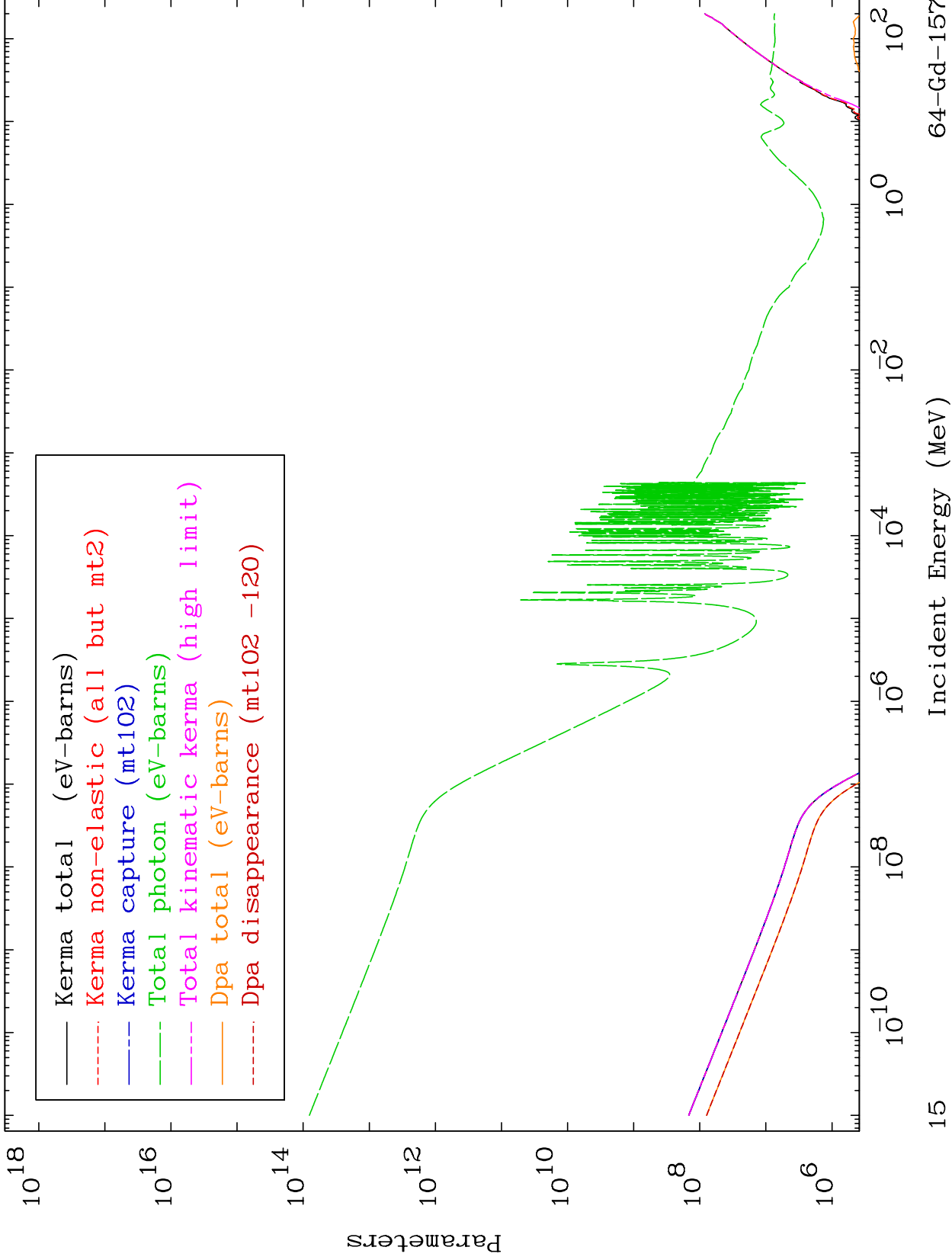
64-Gd-157

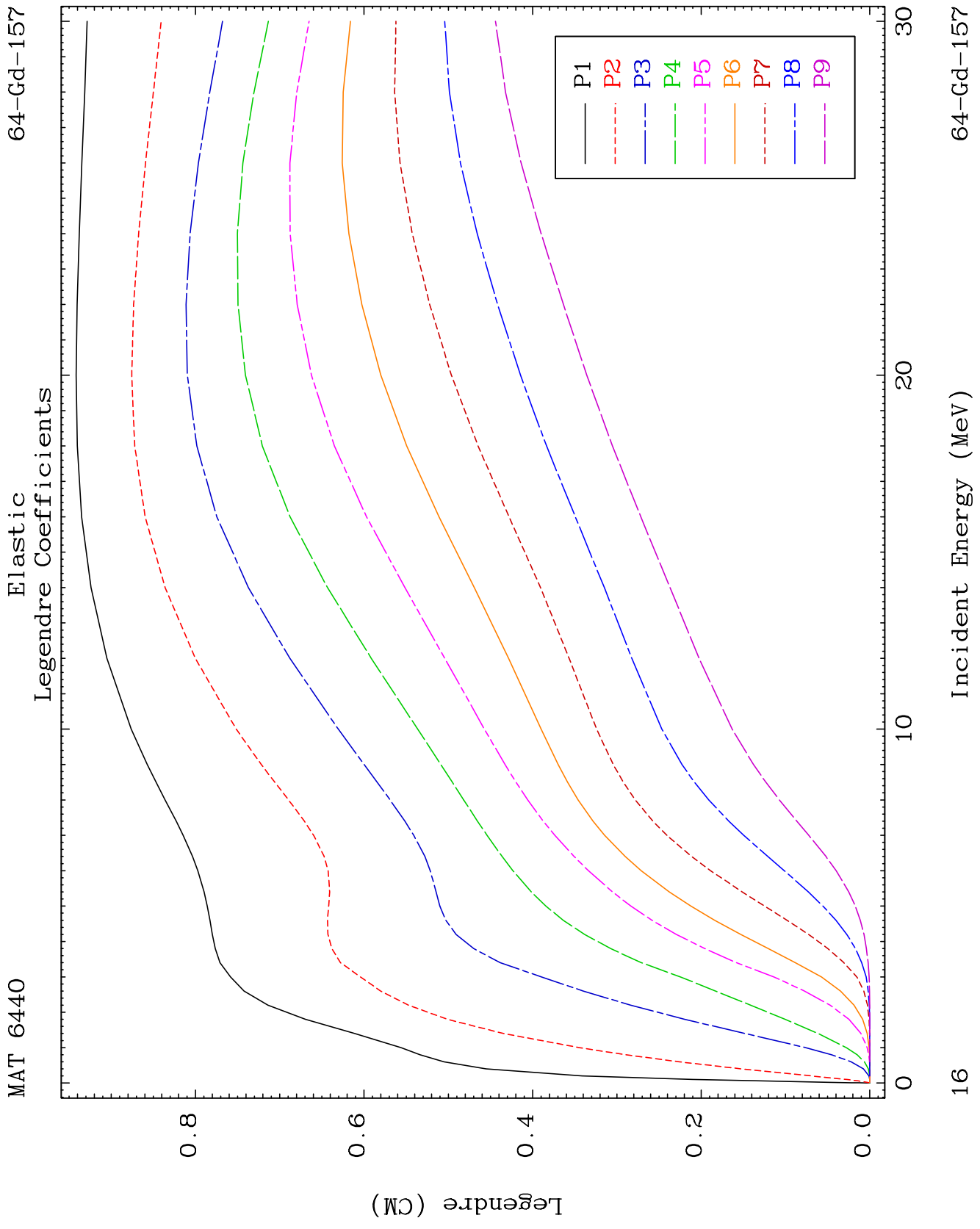


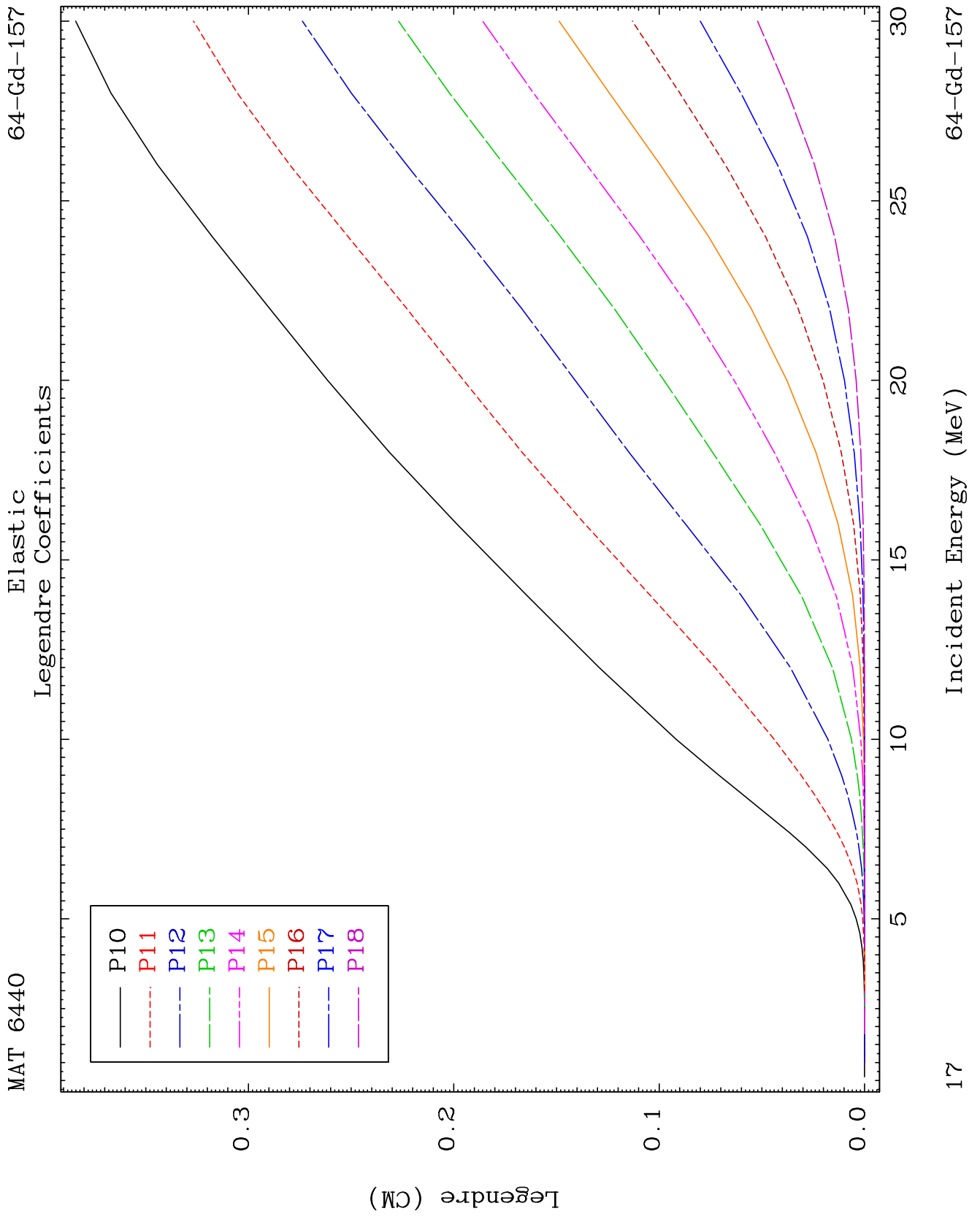
14

Incident Energy (MeV)

64-Gd-157



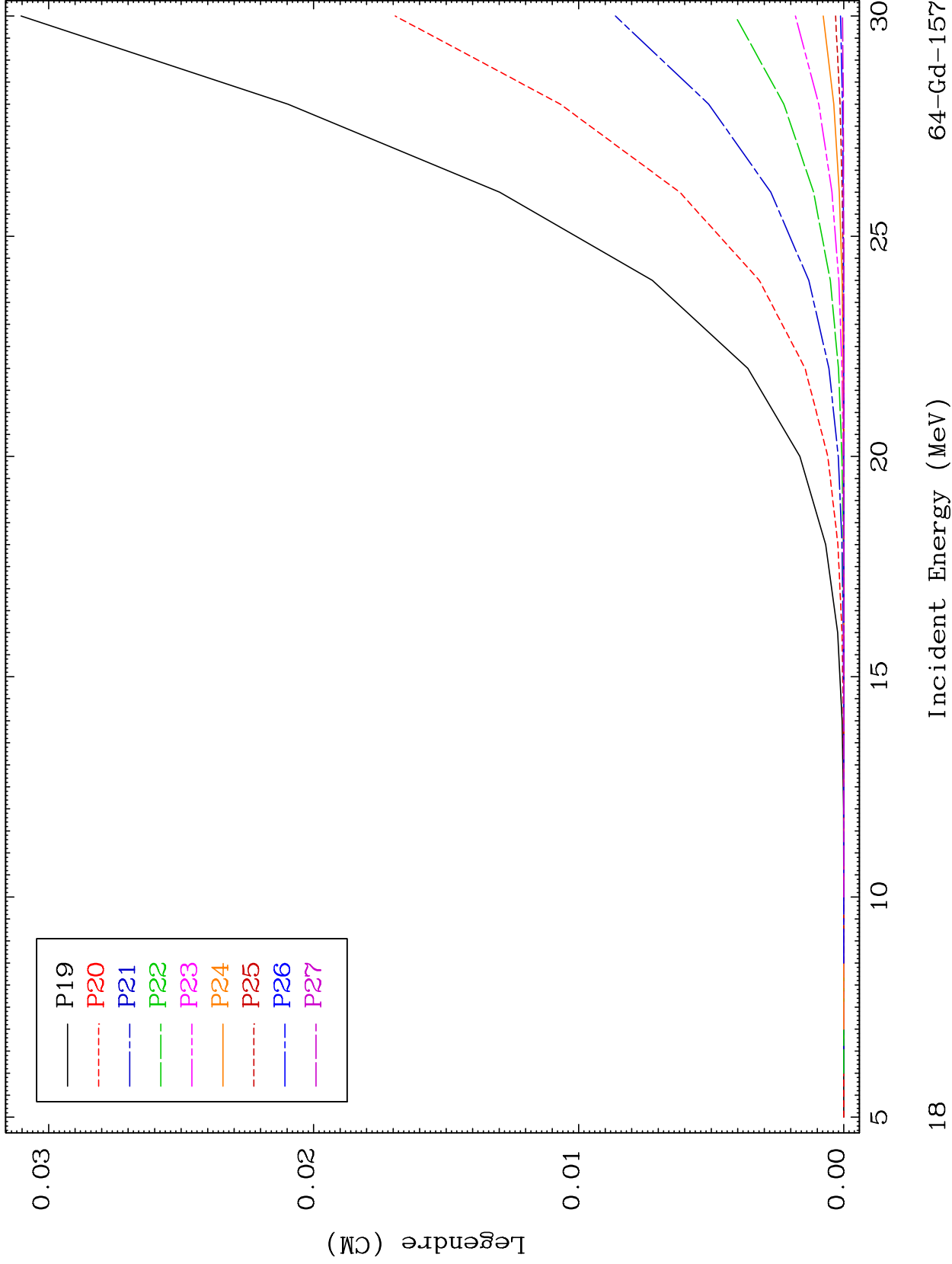




MAT 6440

Elastic Legendre Coefficients

64-Gd-157



18

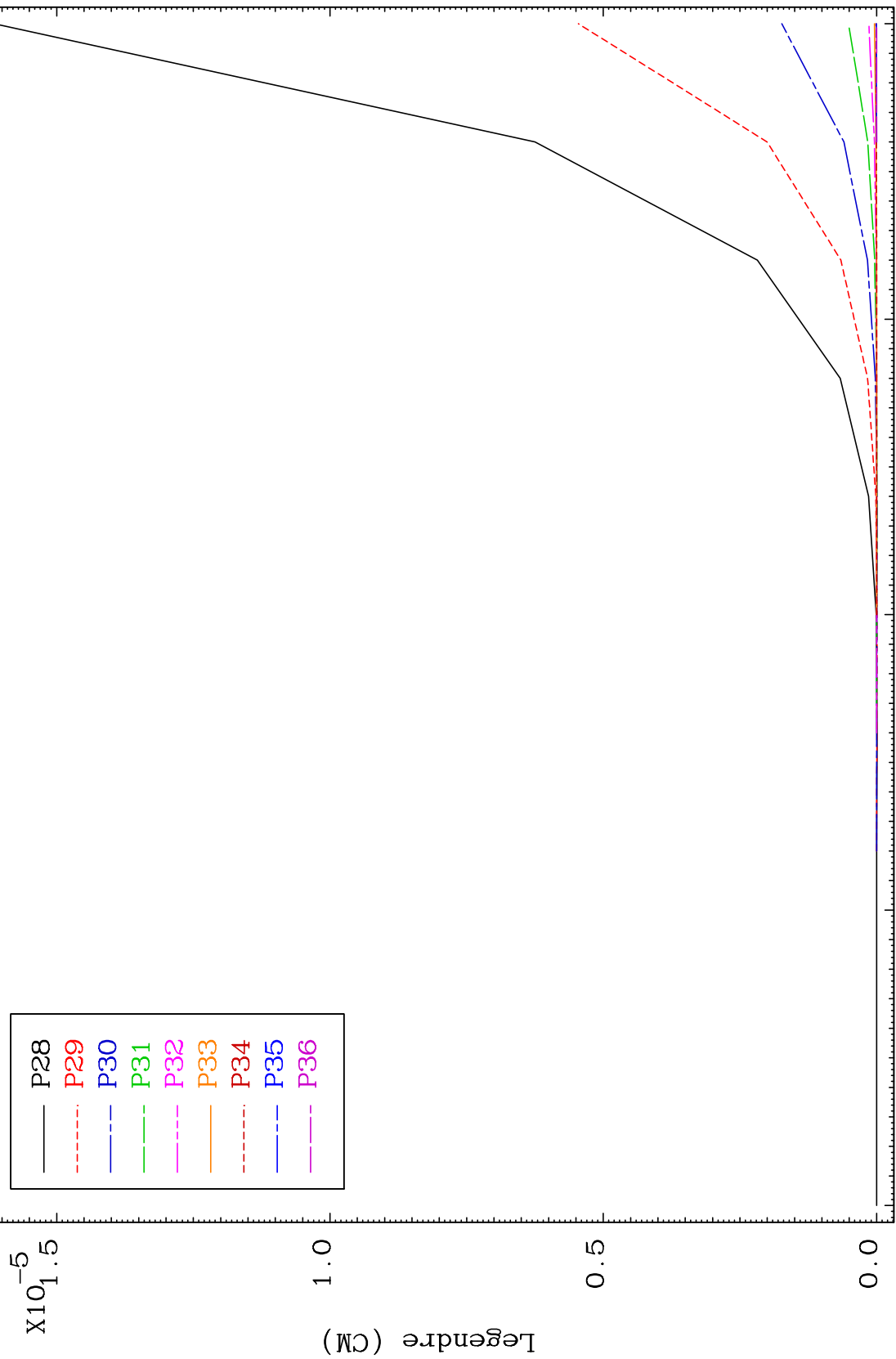
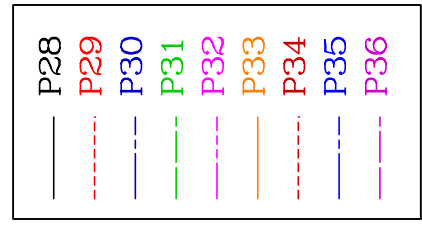
Incident Energy (MeV)

64-Gd-157

MAT 6440

Elastic Legendre Coefficients

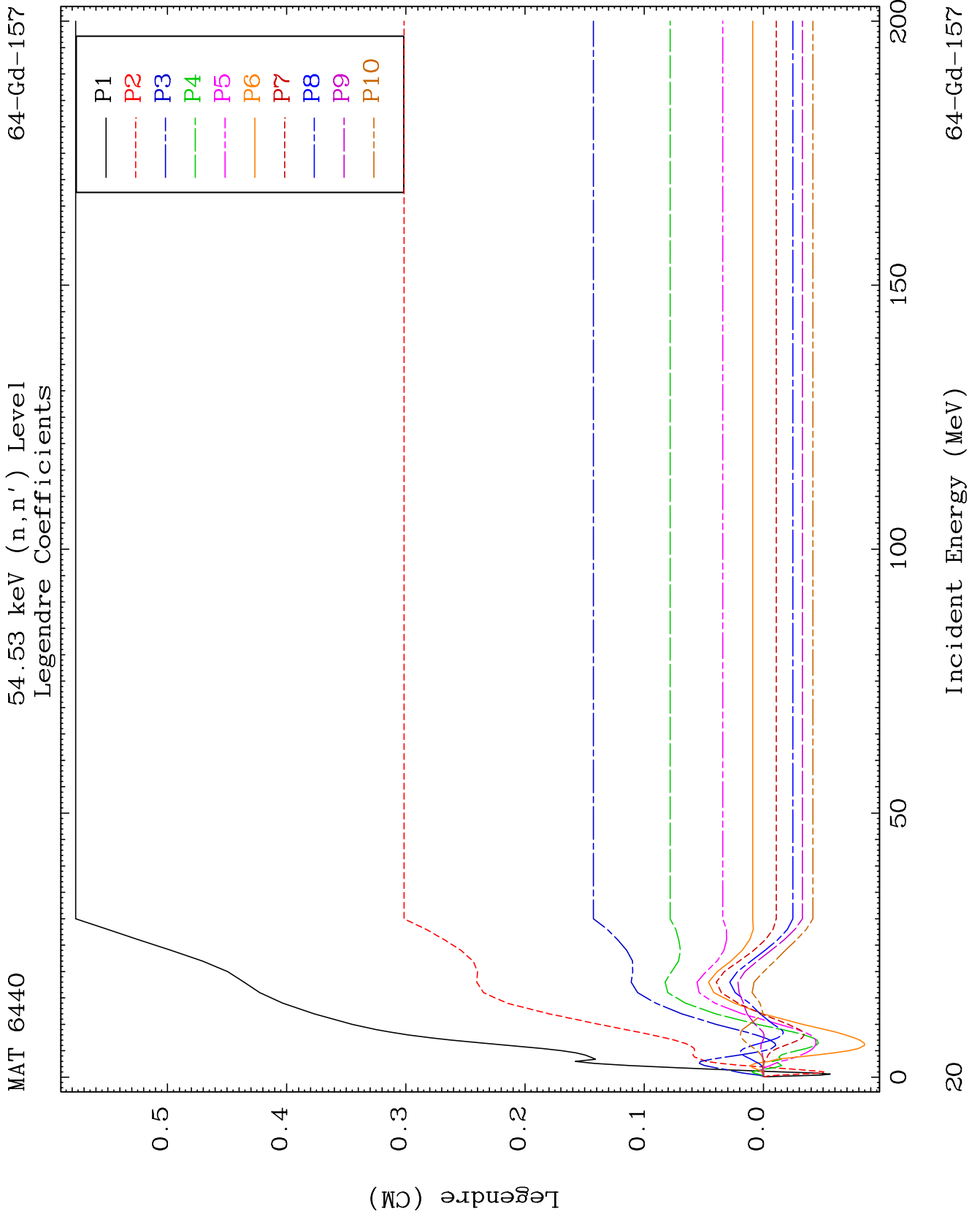
64-Gd-157



19

Incident Energy (MeV)

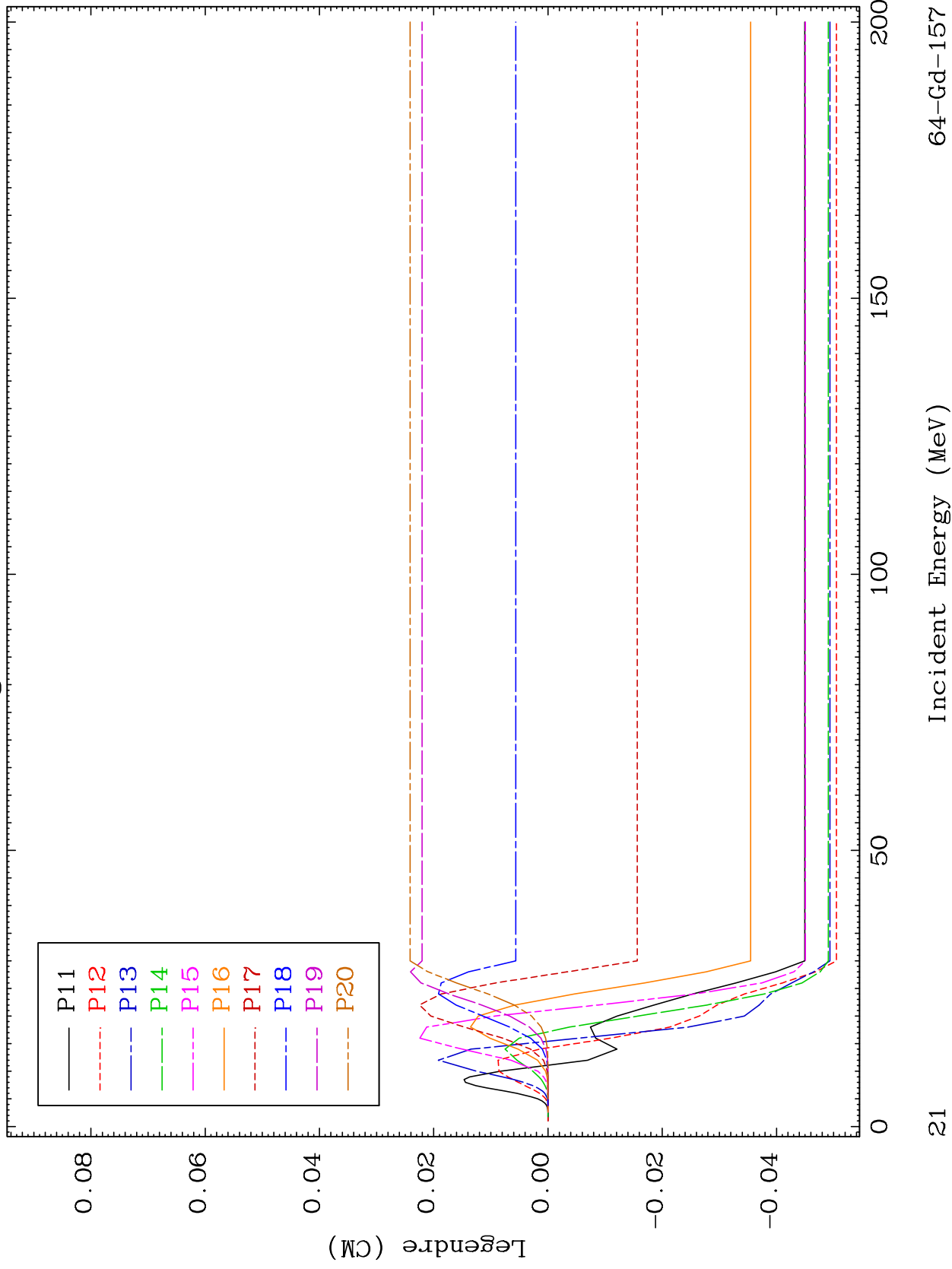
64-Gd-157



MAT 6440

54.53 keV (n, n') Level
Legendre Coefficients

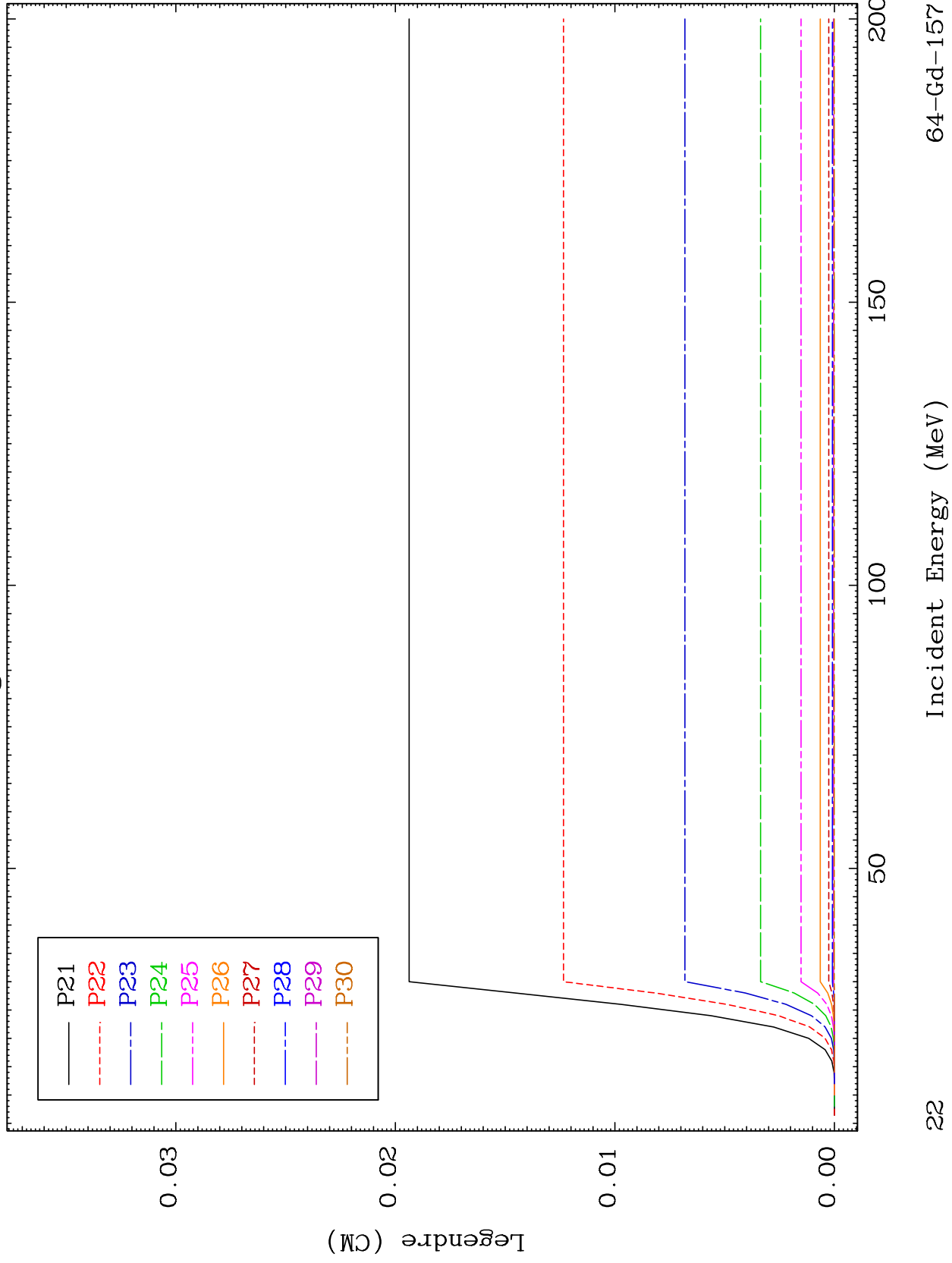
64-Gd-157



MAT 6440

54.53 keV (n,n') Level
Legendre Coefficients

64-Gd-157



22

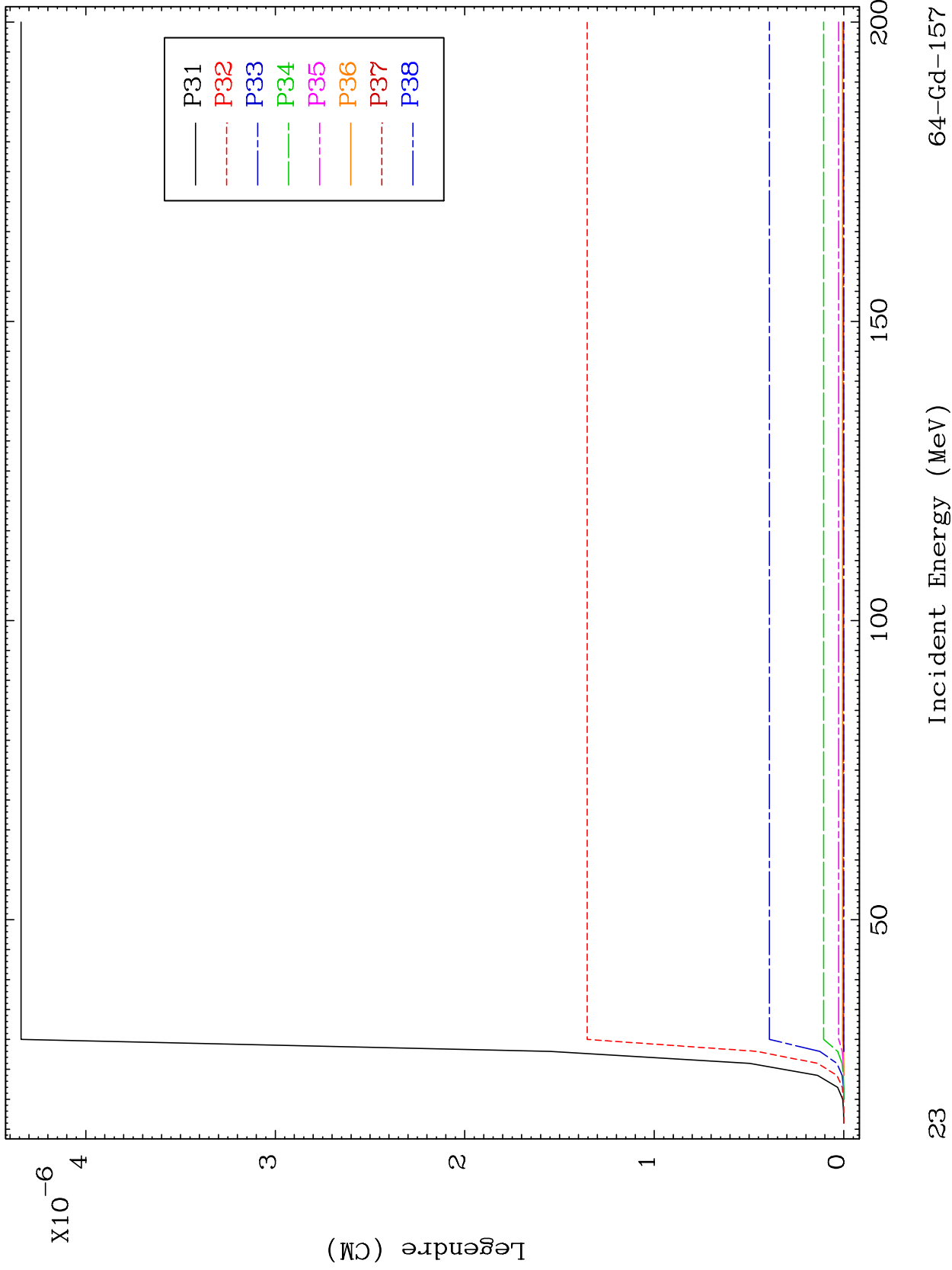
Incident Energy (MeV)

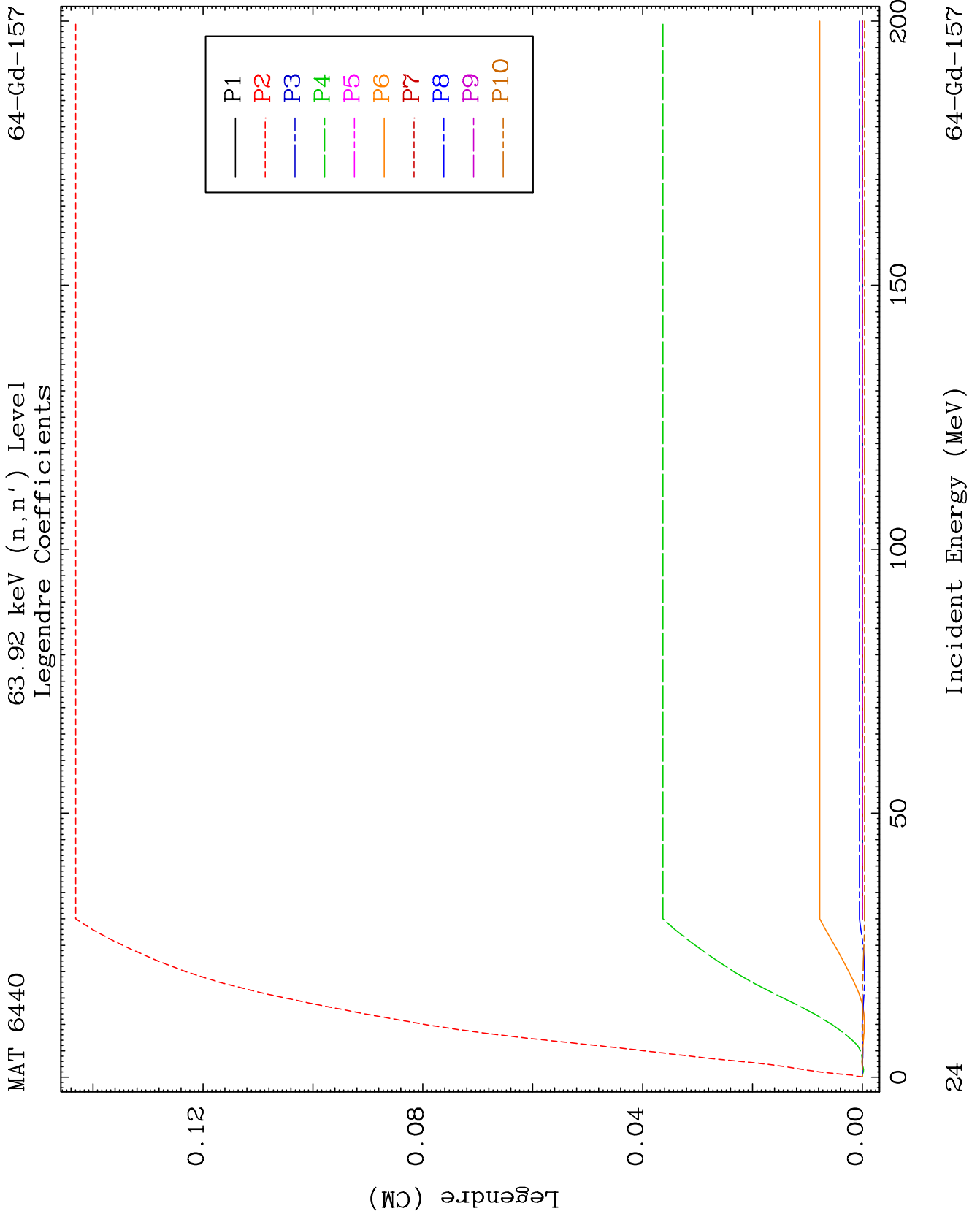
64-Gd-157

MAT 6440

54.53 keV (n, n') Level
Legendre Coefficients

64-Gd-157

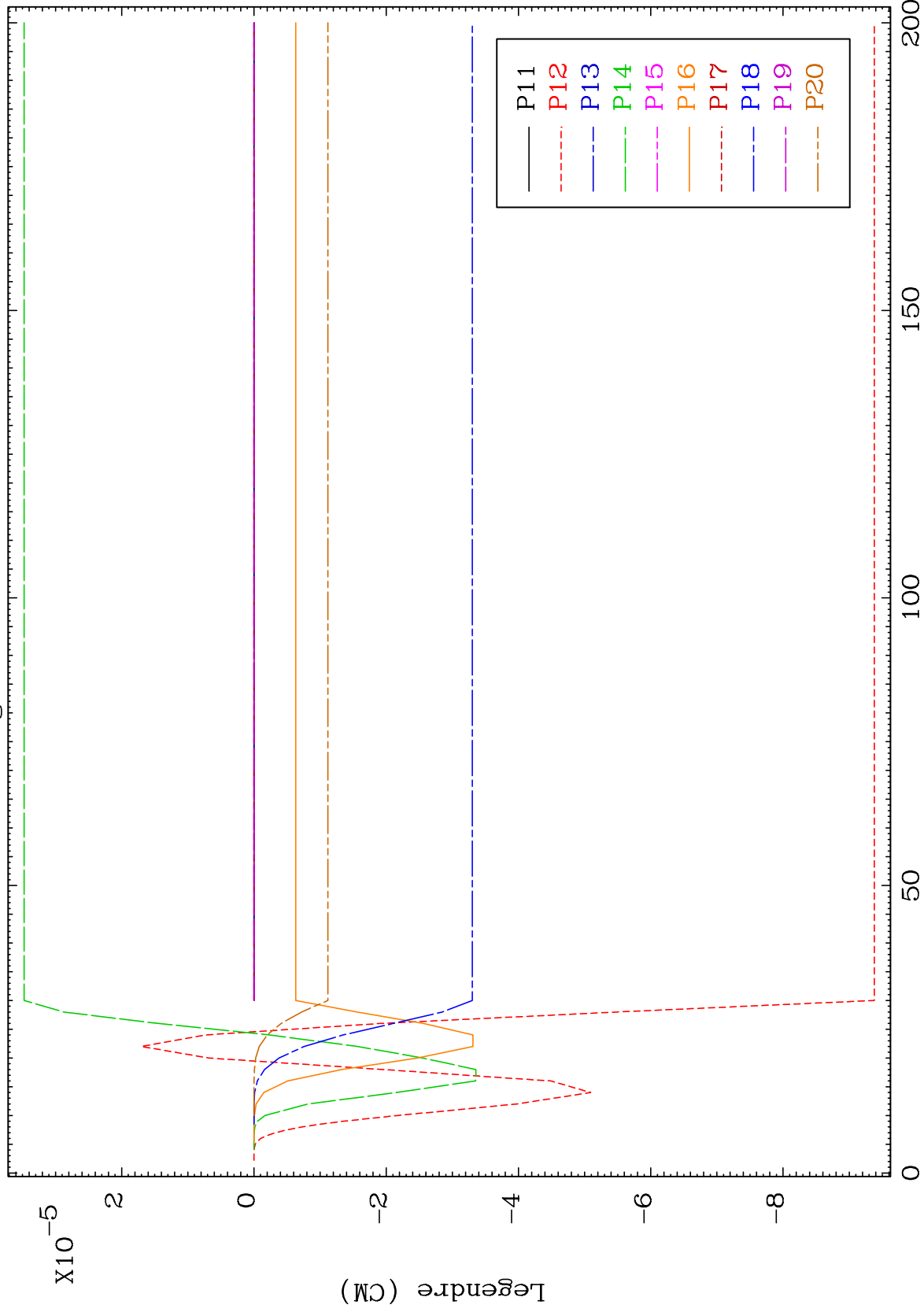




MAT 6440

63.92 keV (n, n') Level
Legendre Coefficients

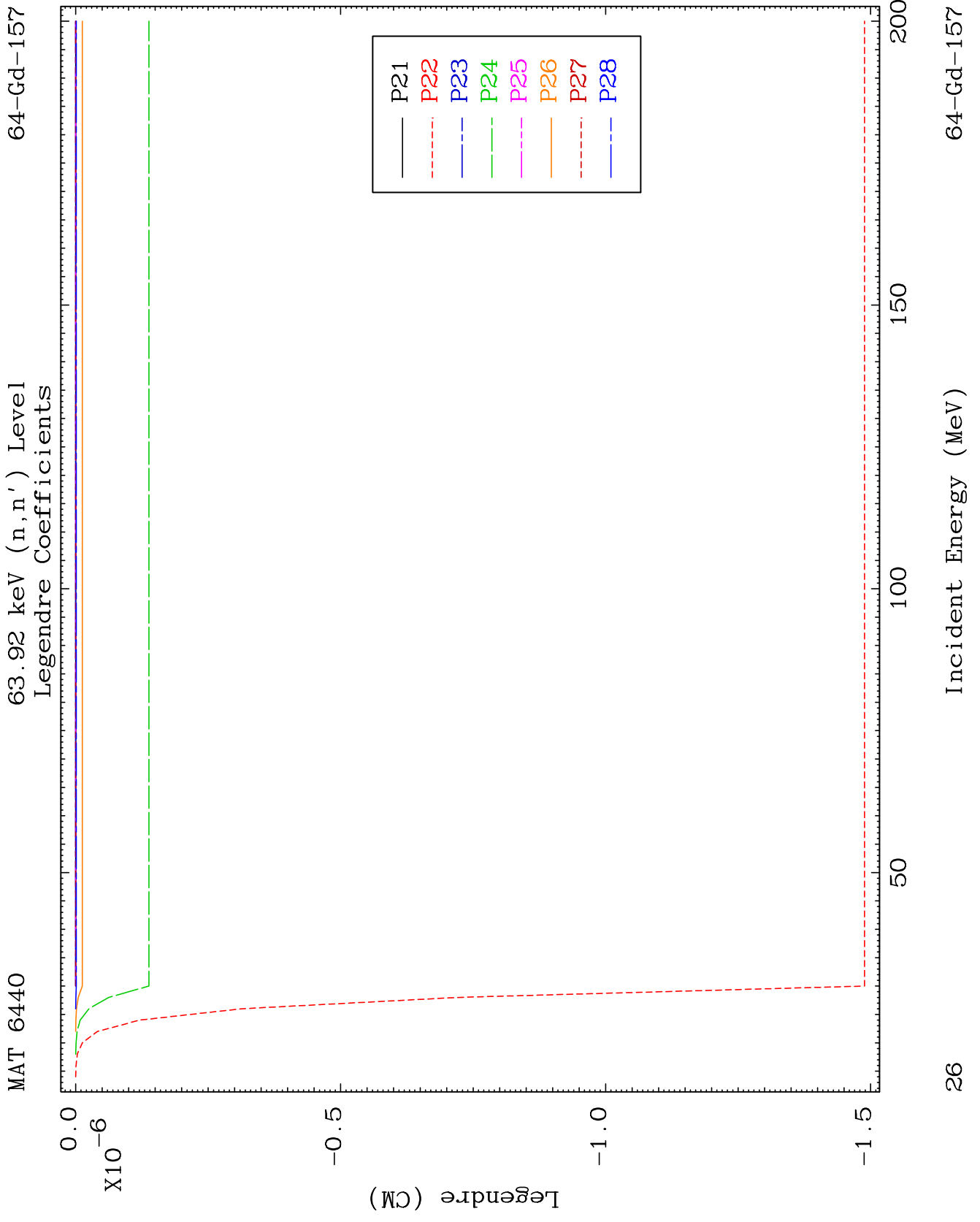
64-Gd-157

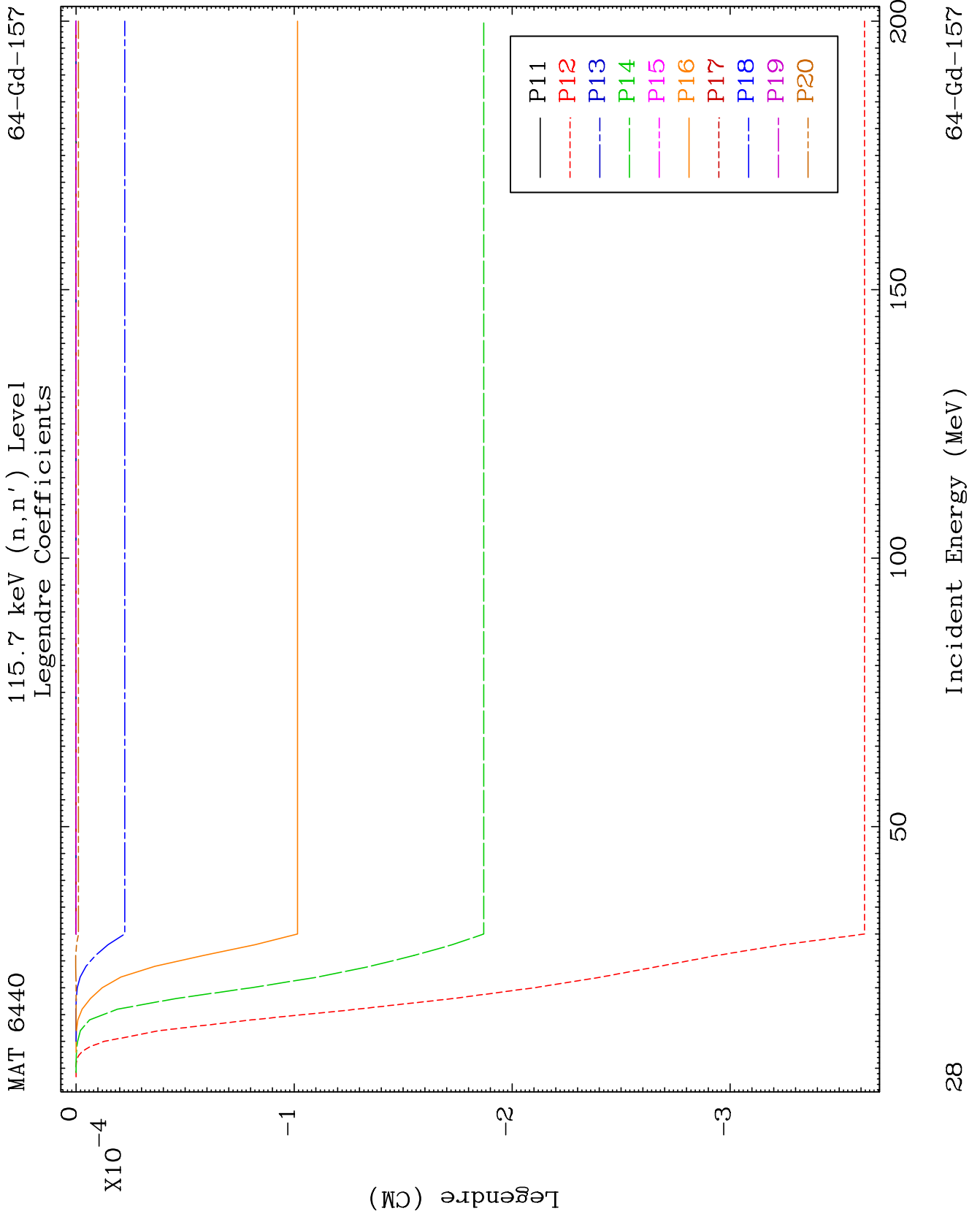


25

Incident Energy (MeV)

64-Gd-157

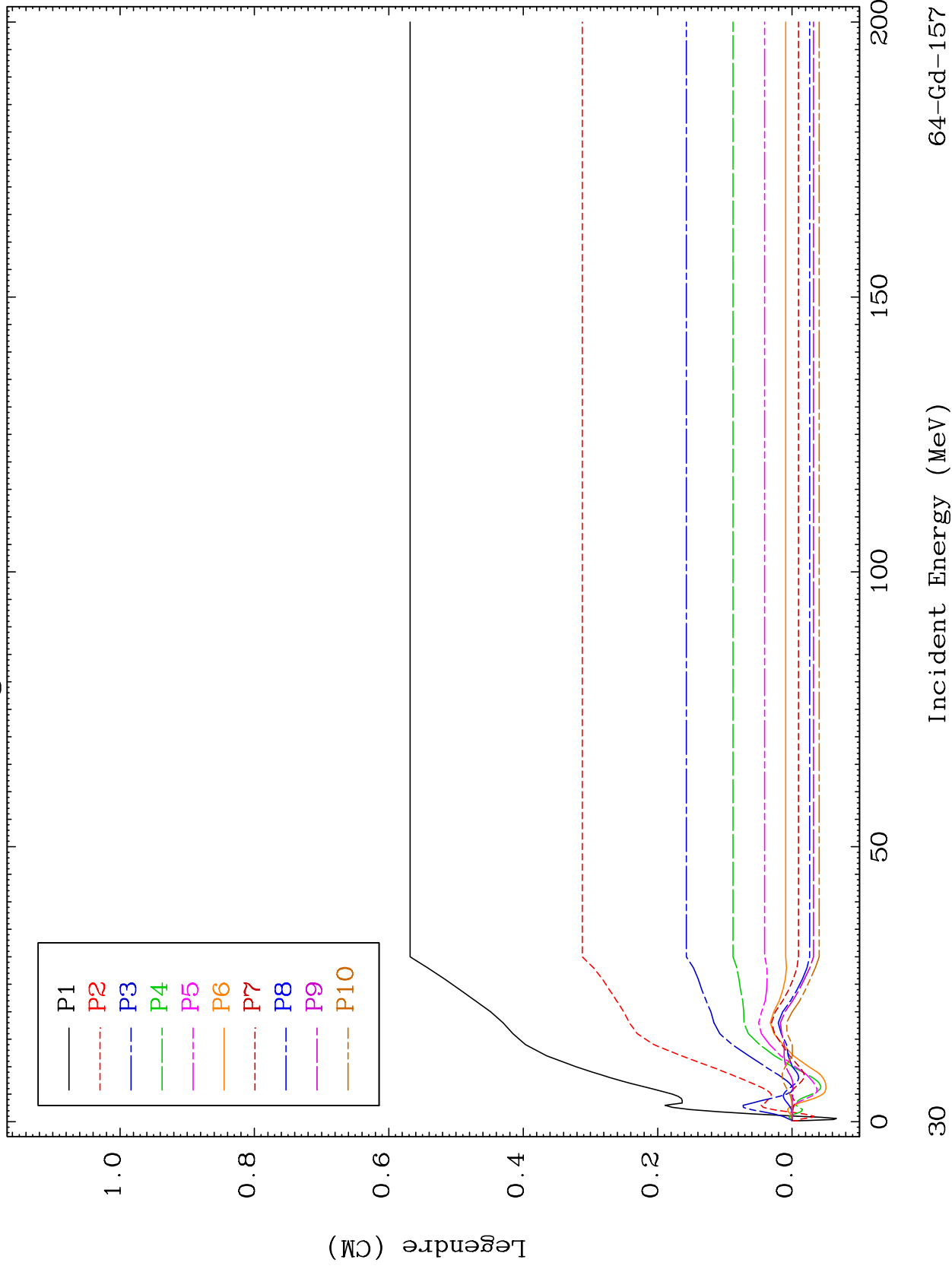




MAT 6440

131.5 keV (n,n') Level
Legendre Coefficients

64-Gd-157



64-Gd-157

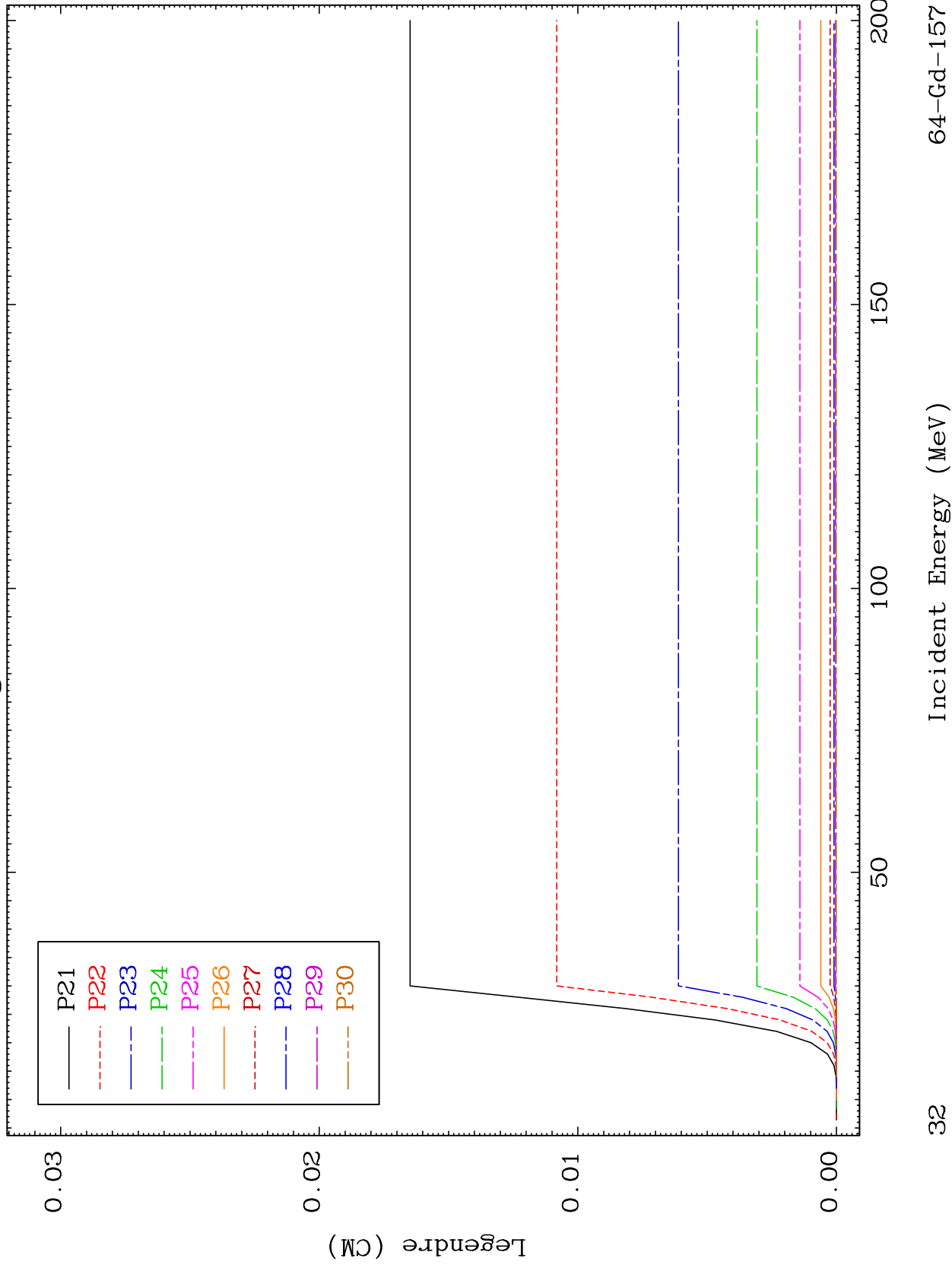
Incident Energy (MeV)

30

MAT 6440

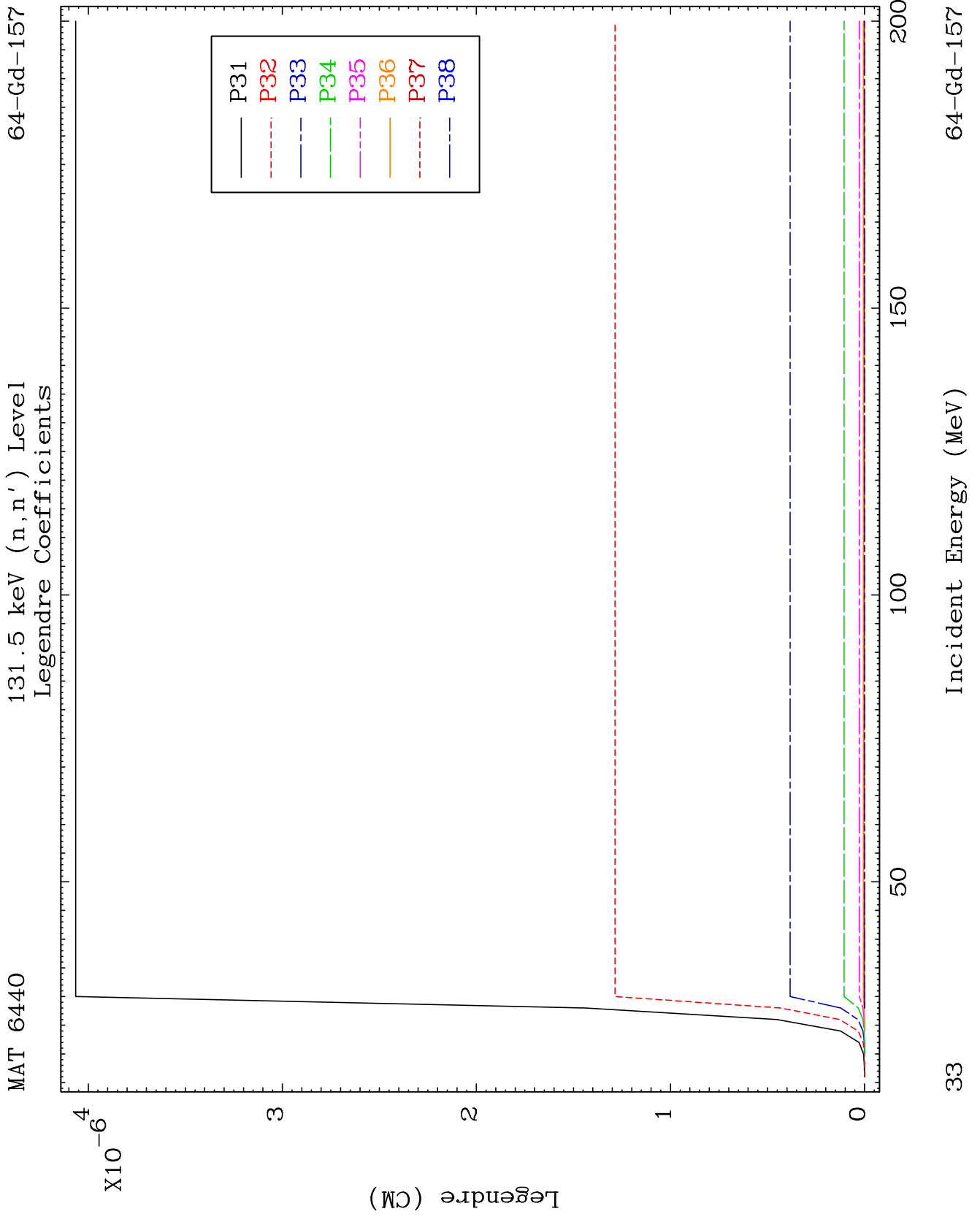
131.5 keV (n,n') Level
Legendre Coefficients

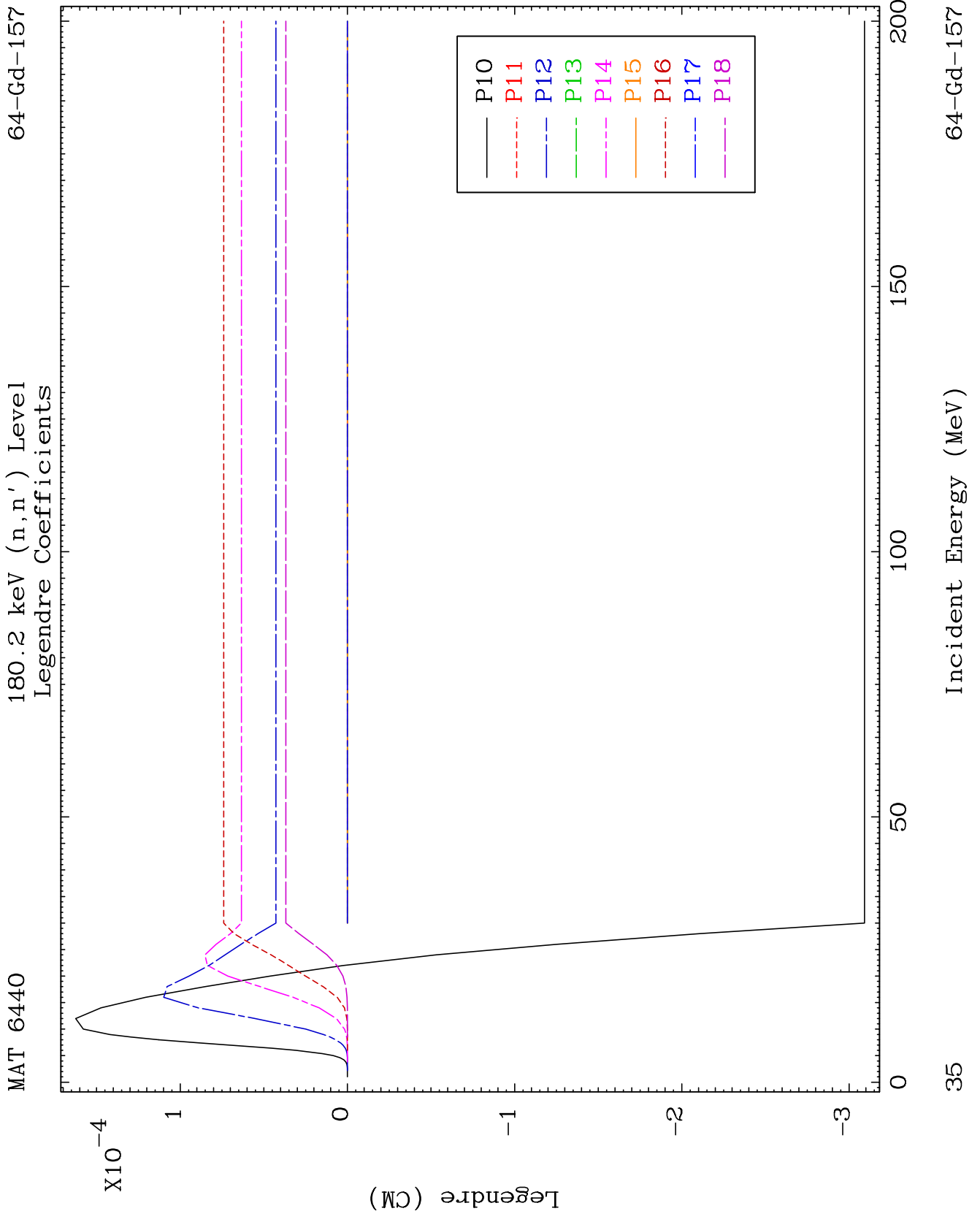
64-Gd-157

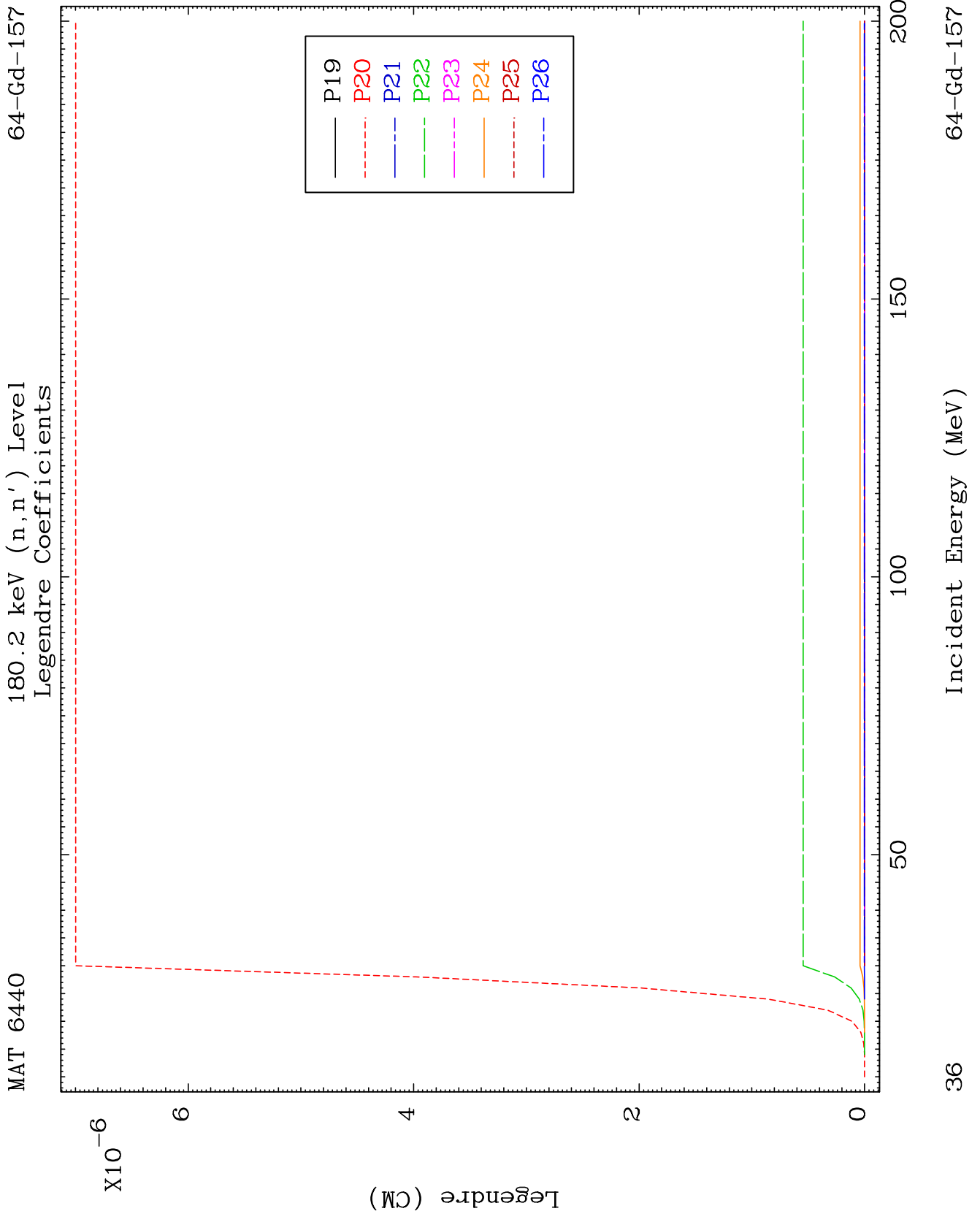


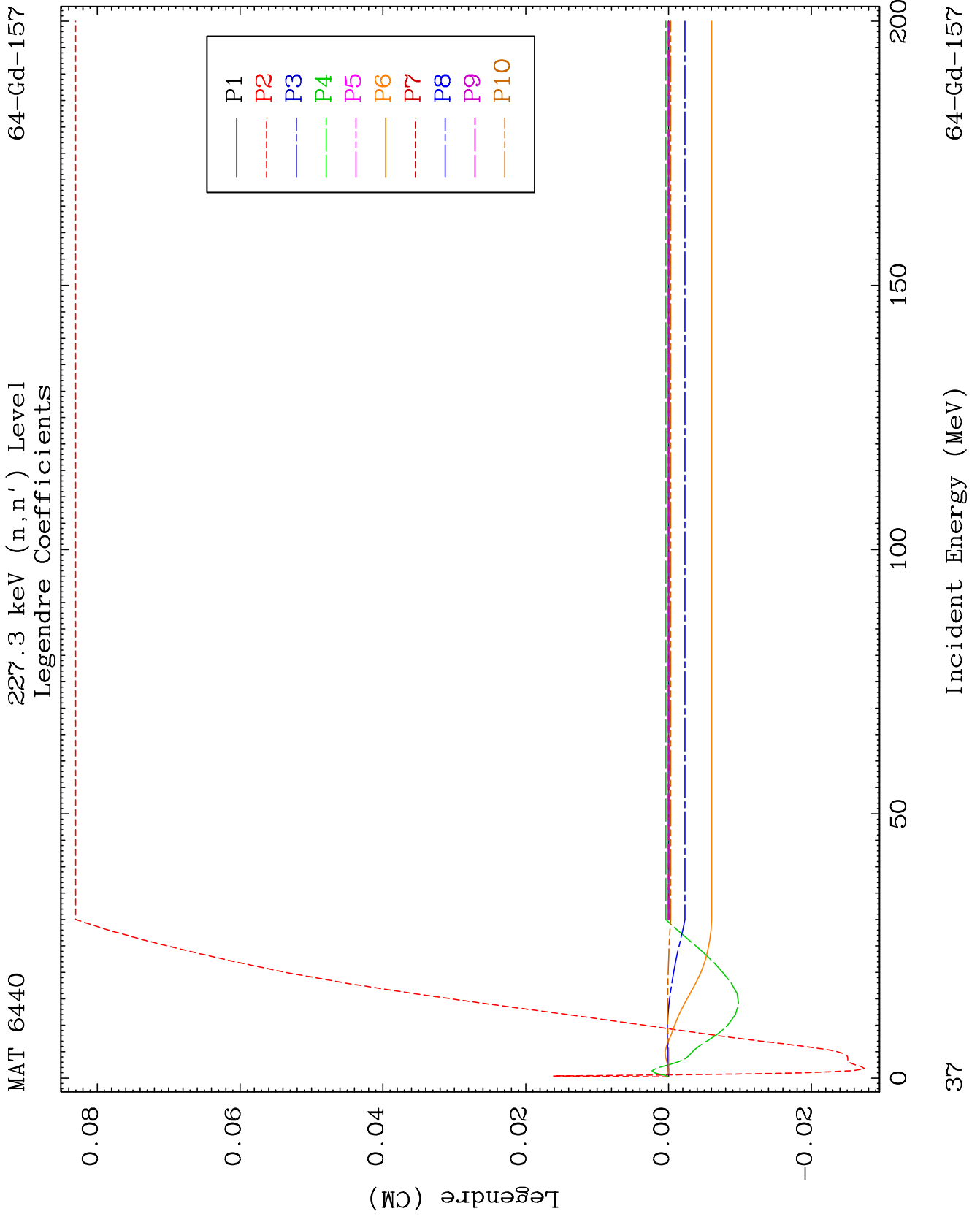
32

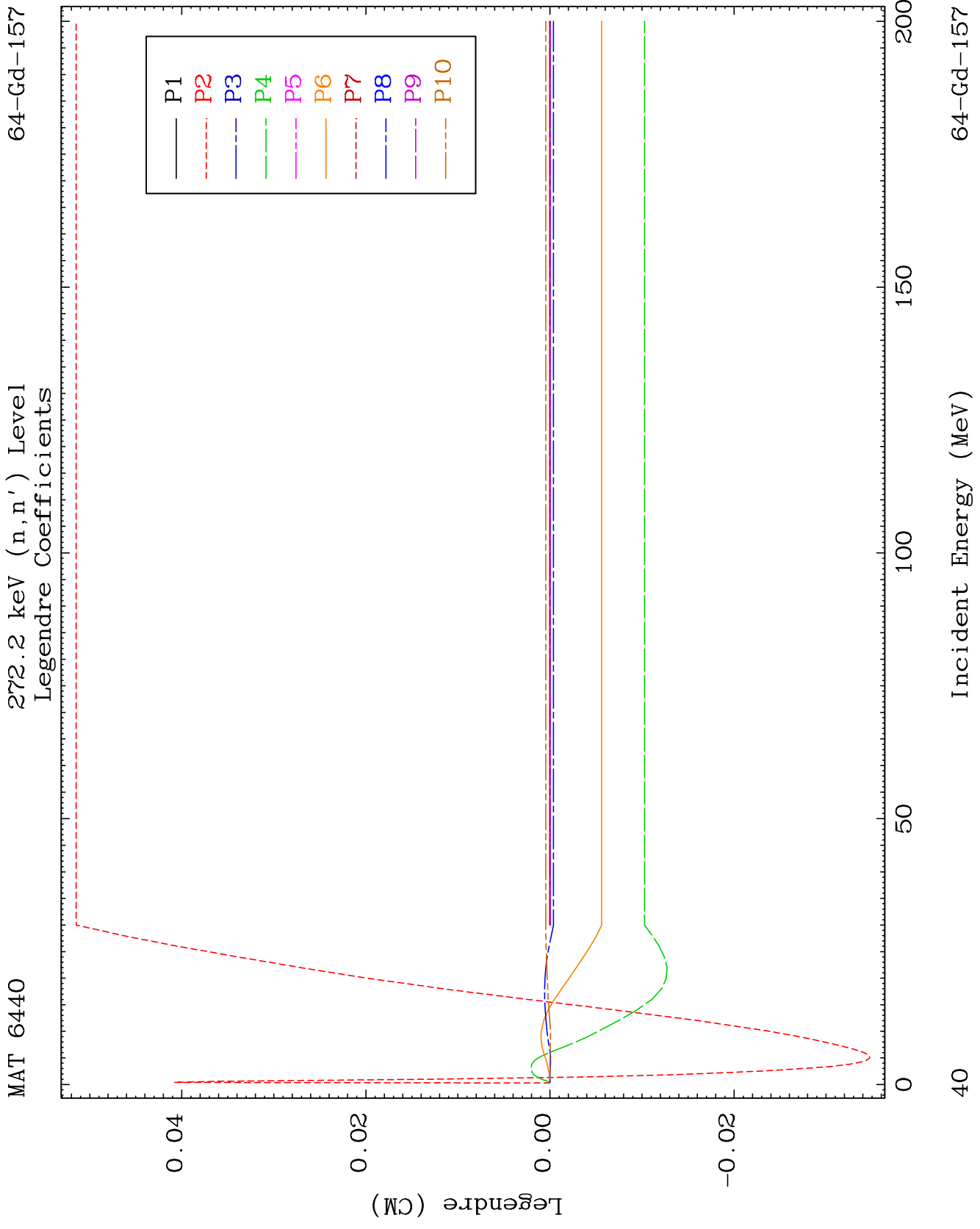
64-Gd-157

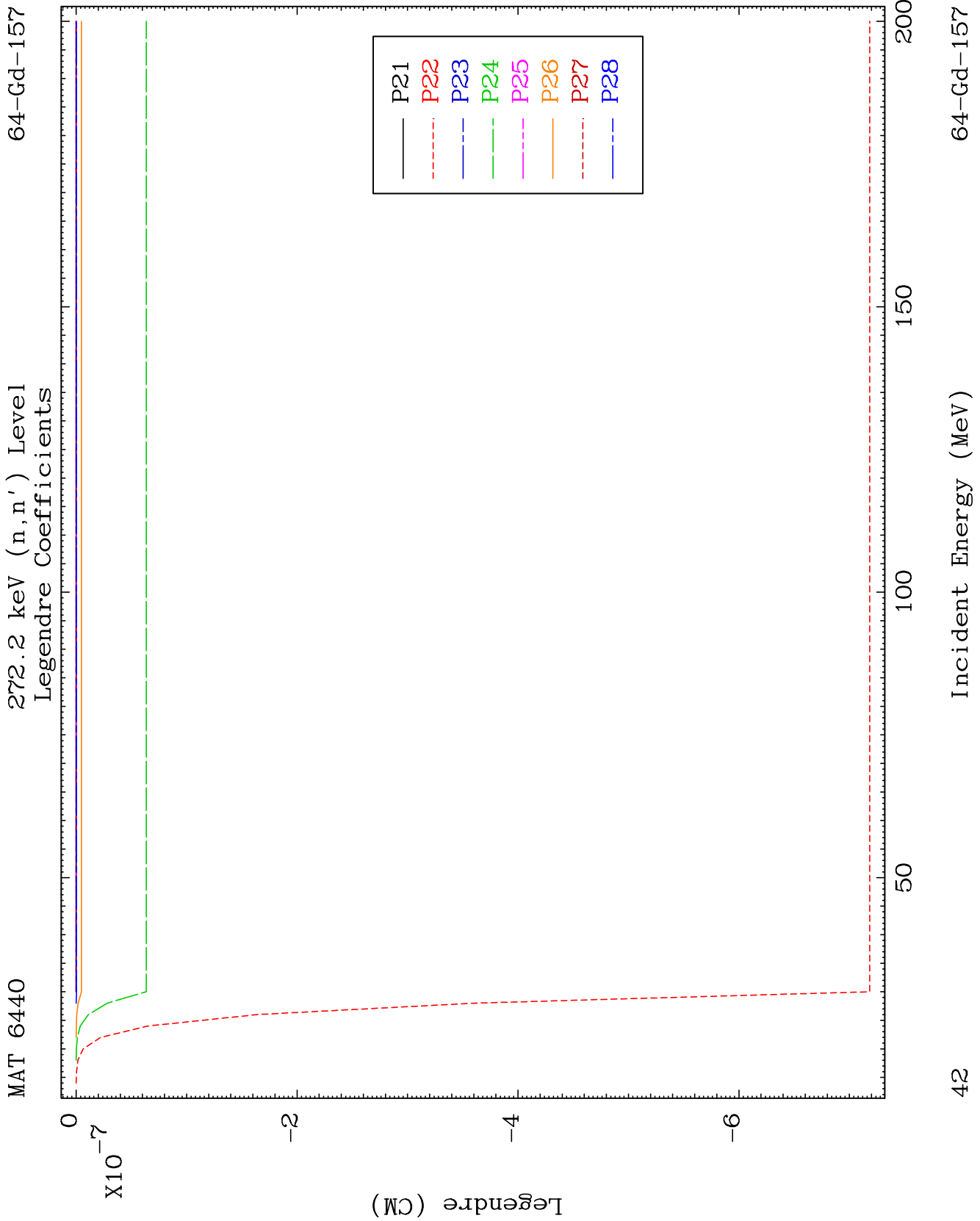








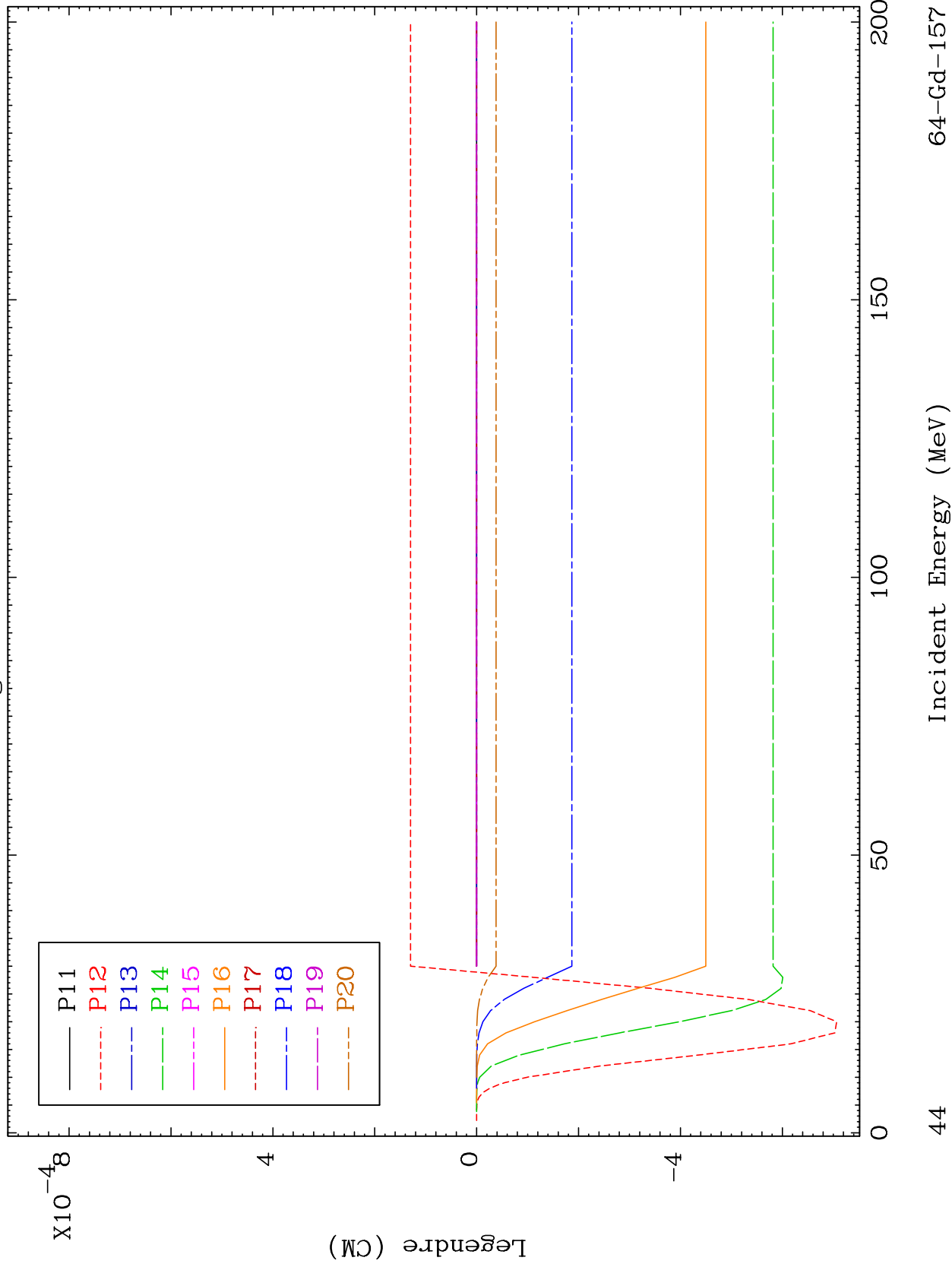




MAT 6440

315.0 keV (n,n') Level
Legendre Coefficients

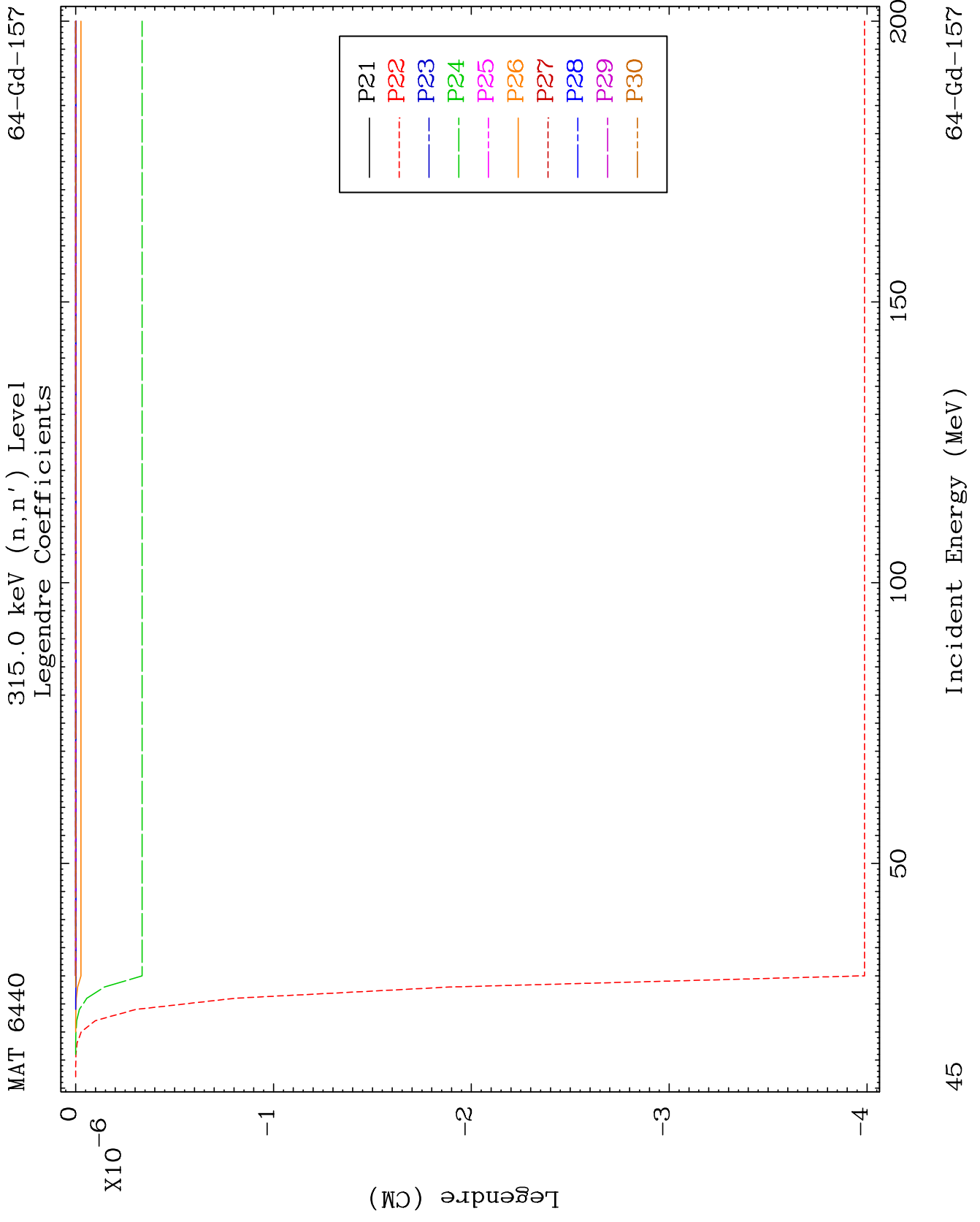
64-Gd-157

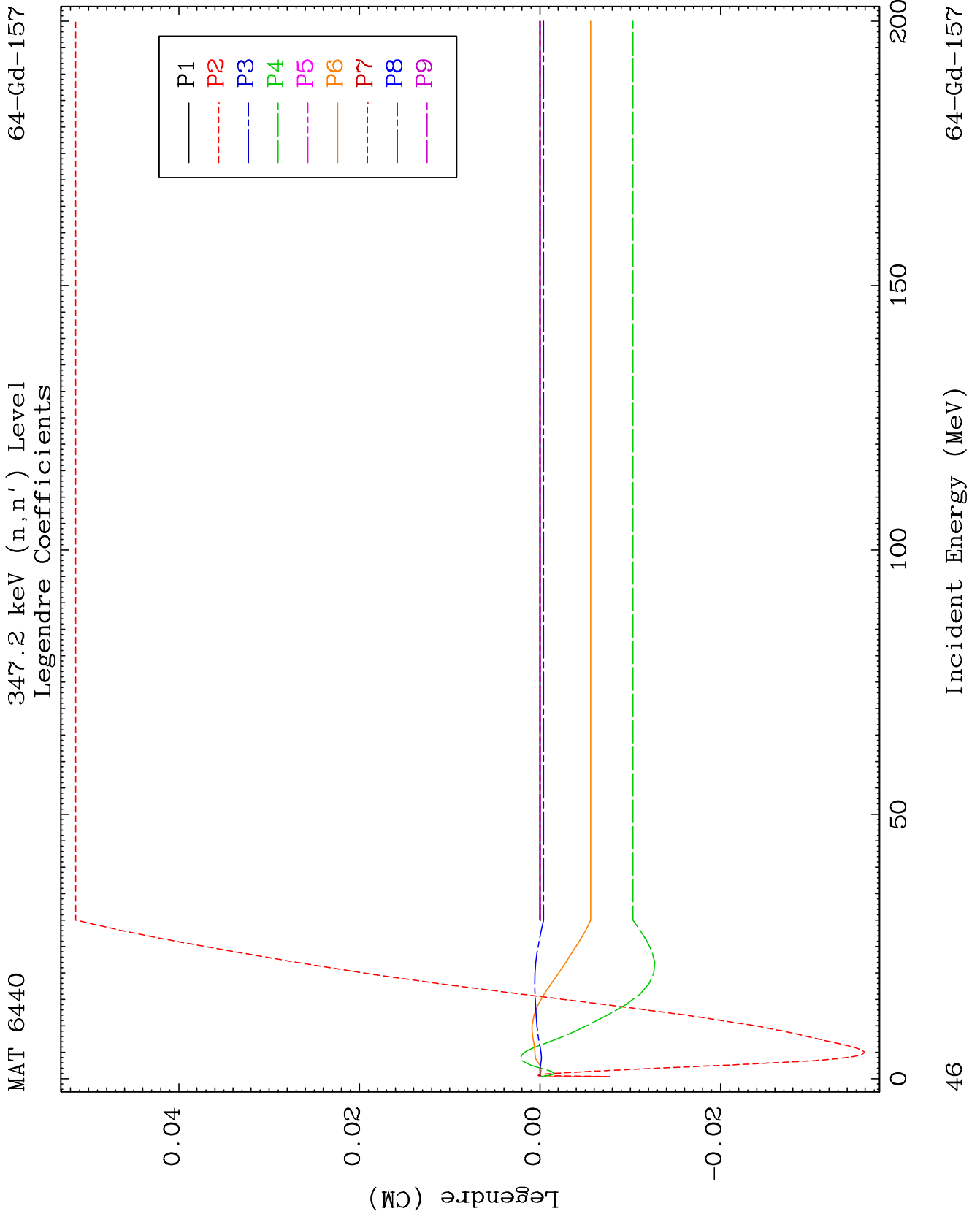


44

Incident Energy (MeV)

64-Gd-157

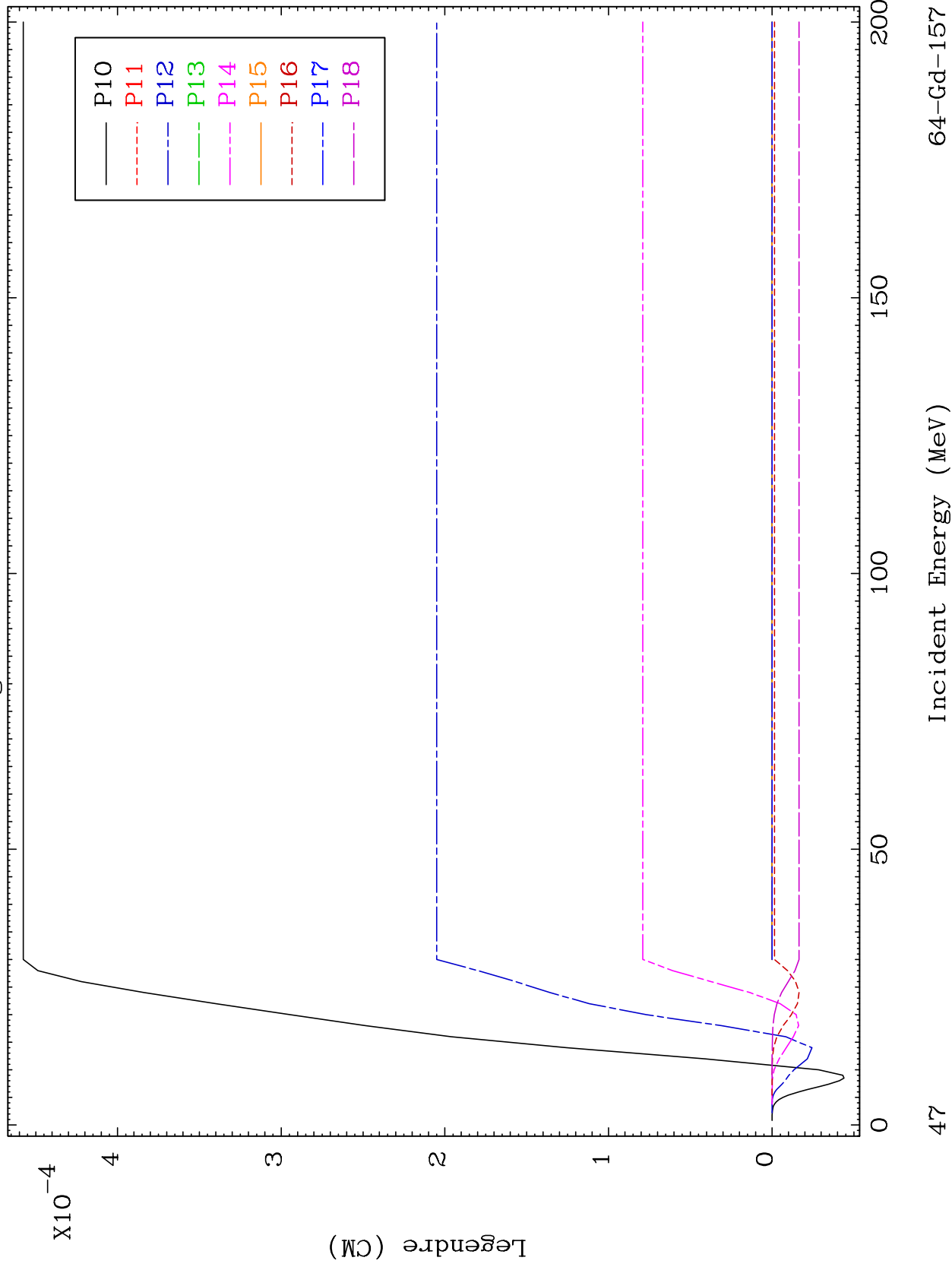




MAT 6440

347.2 keV (n,n') Level
Legendre Coefficients

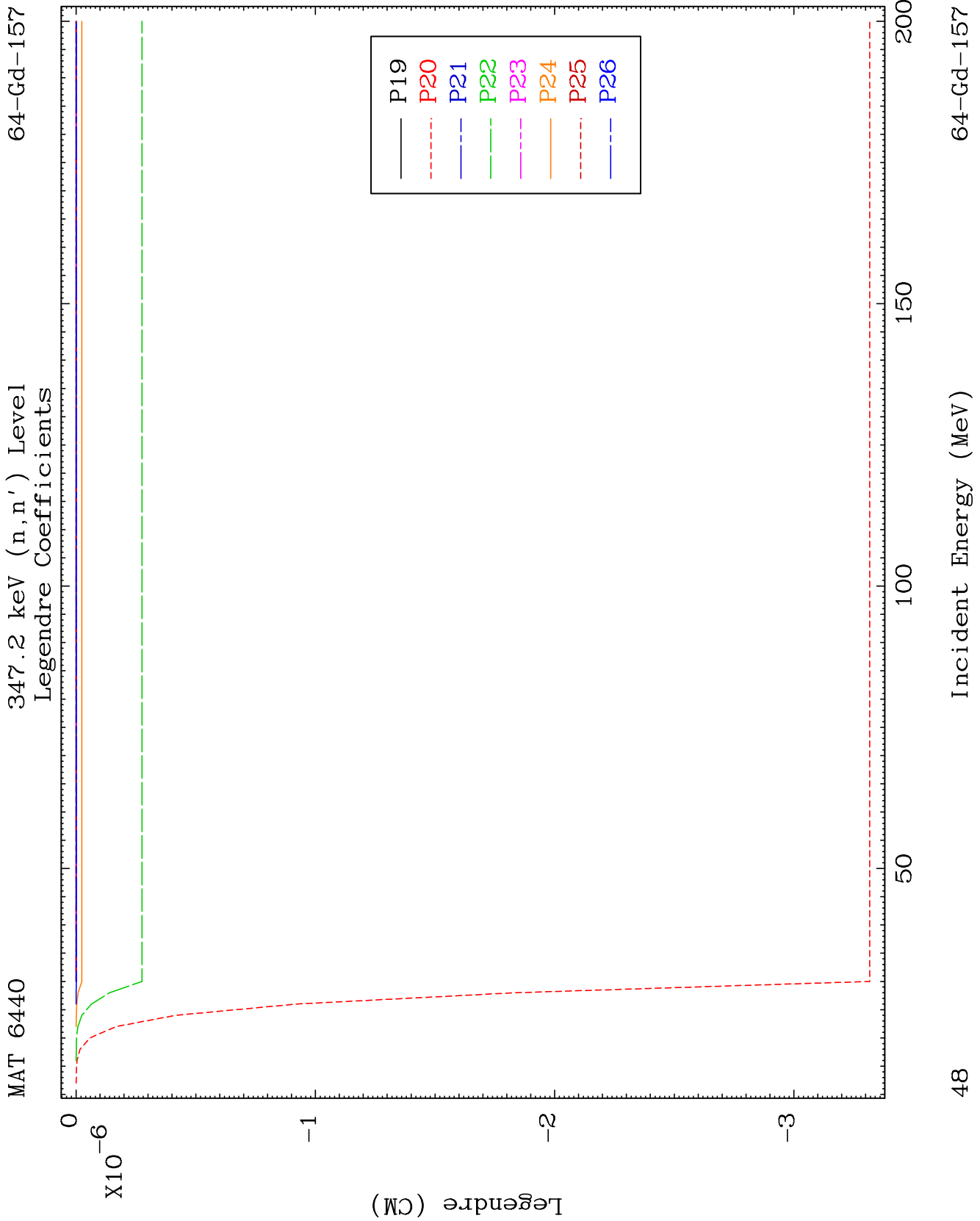
64-Gd-157



47

Incident Energy (MeV)

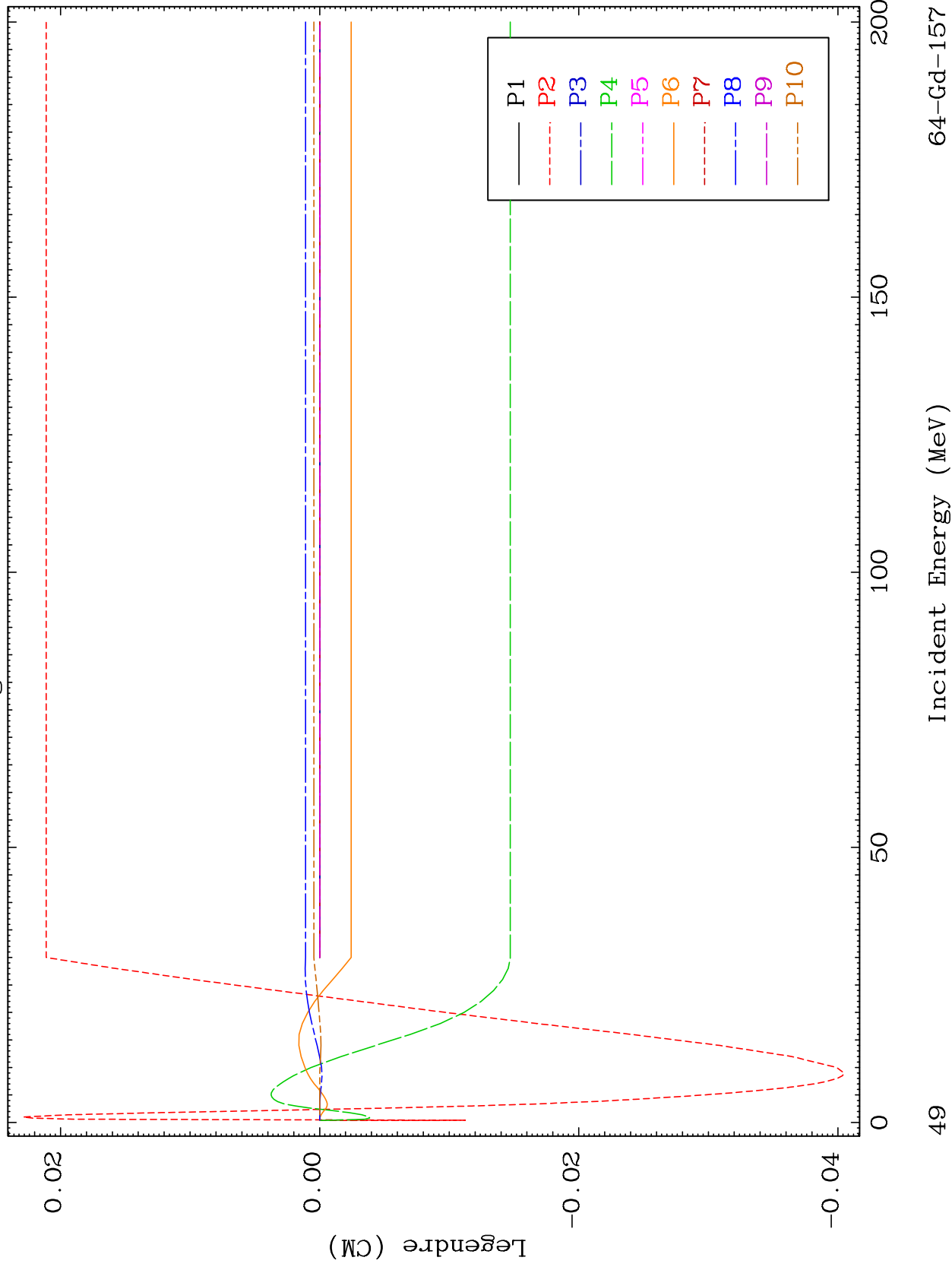
64-Gd-157



MAT 6440

361.1 keV (n,n') Level
Legendre Coefficients

64-Gd-157



49

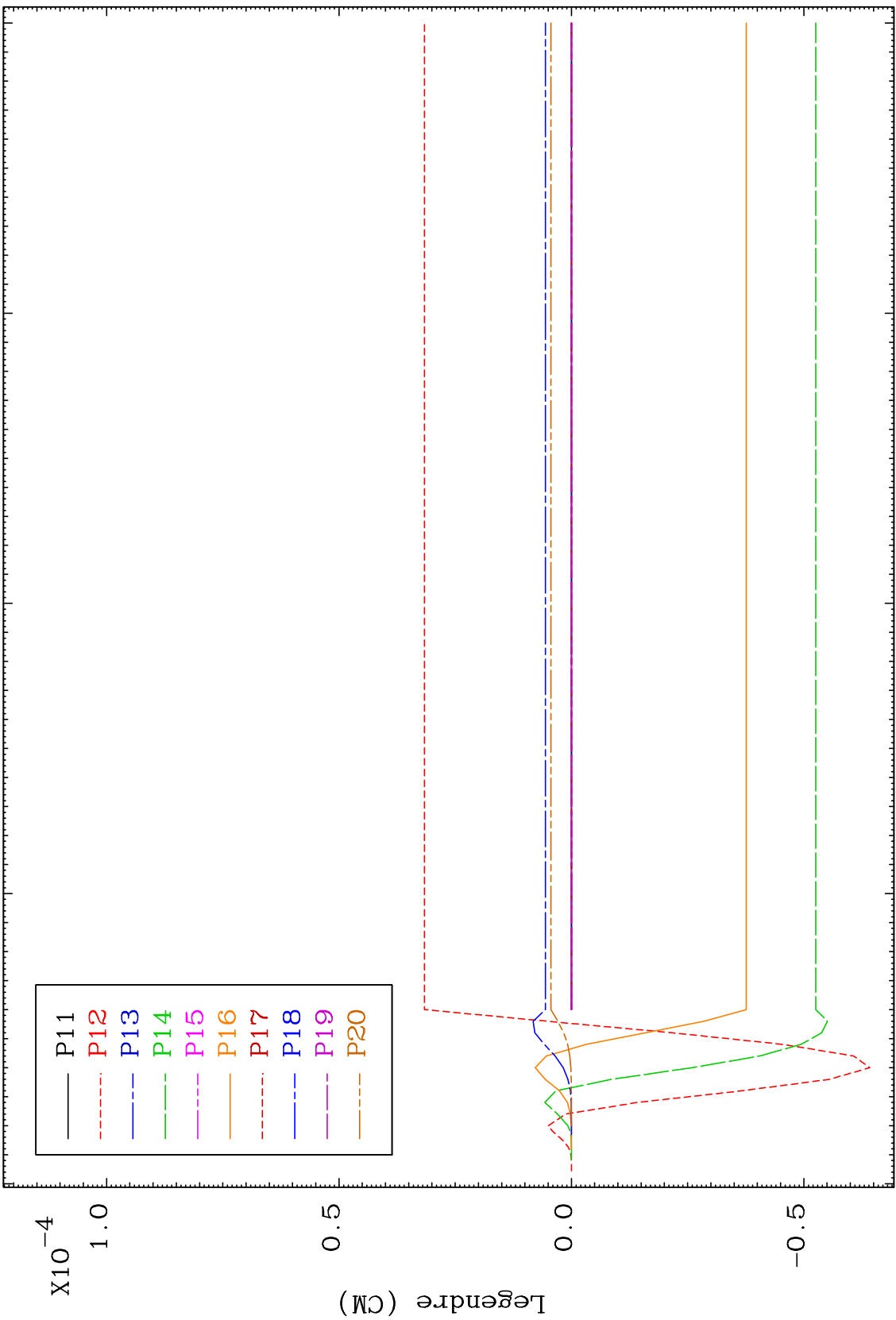
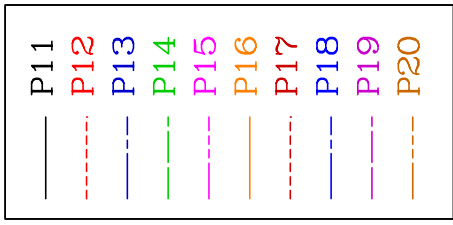
Incident Energy (MeV)

64-Gd-157

MAT 6440

361.1 keV (n,n') Level
Legendre Coefficients

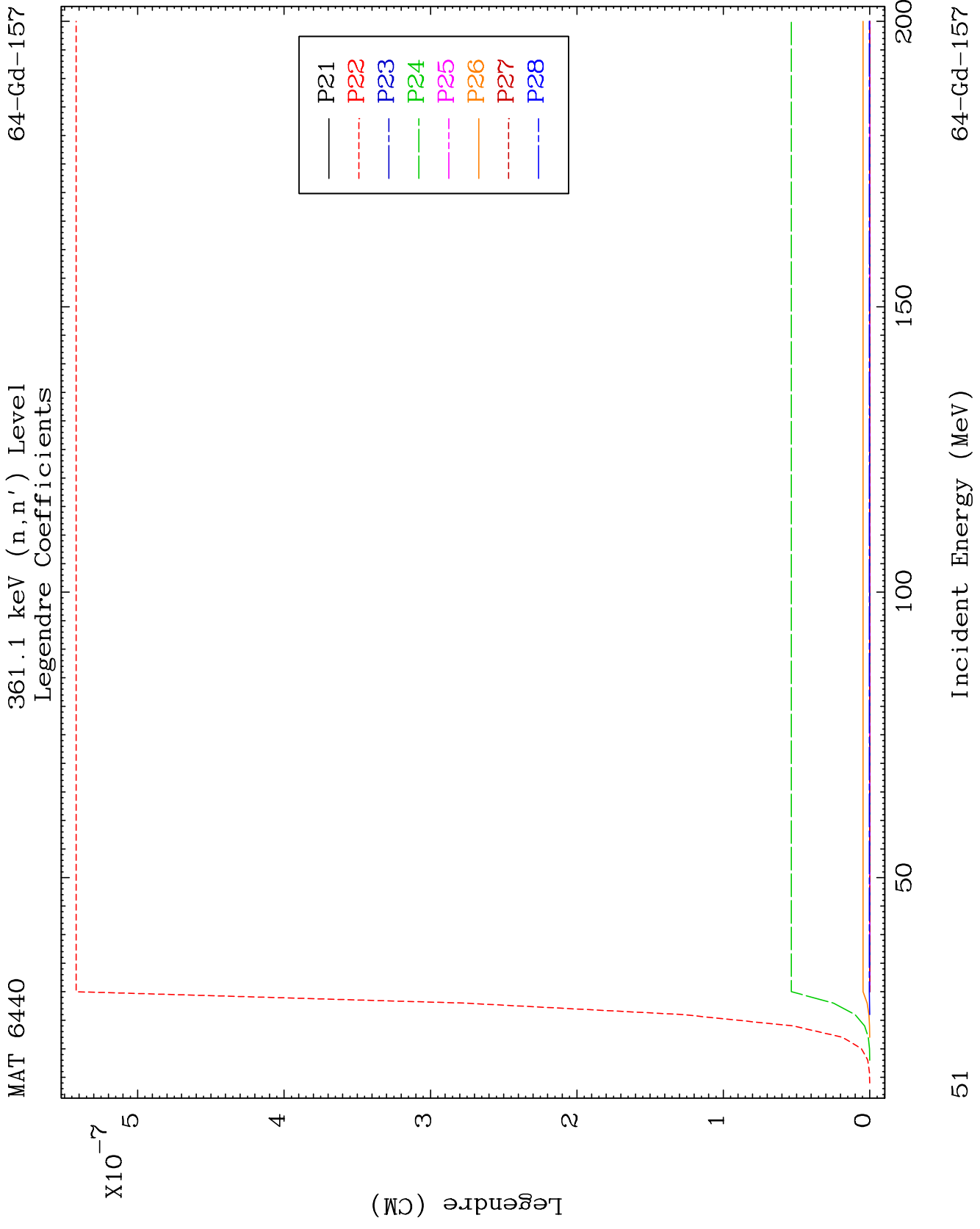
64-Gd-157

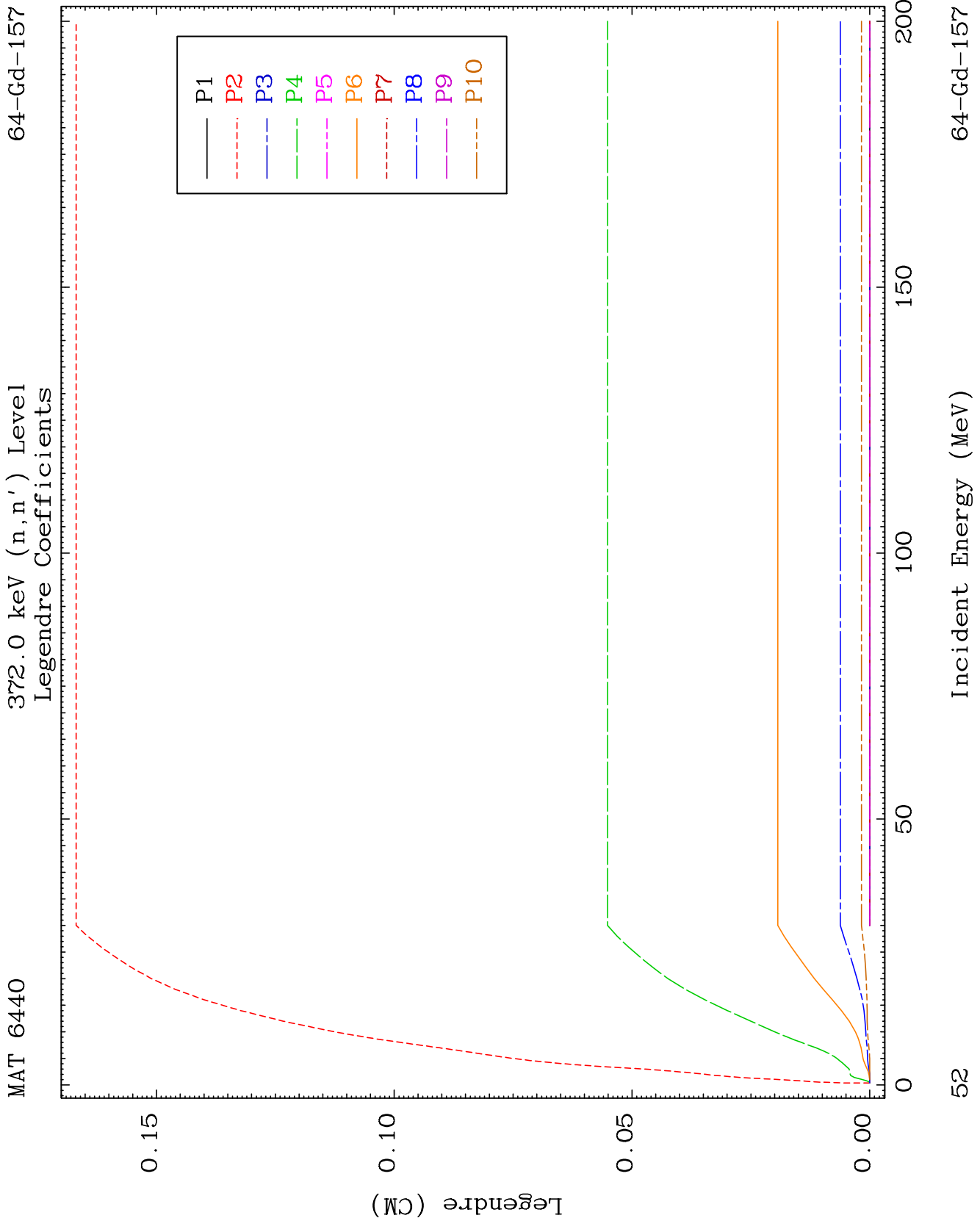


0 50 100 150 200

Incident Energy (MeV)

64-Gd-157

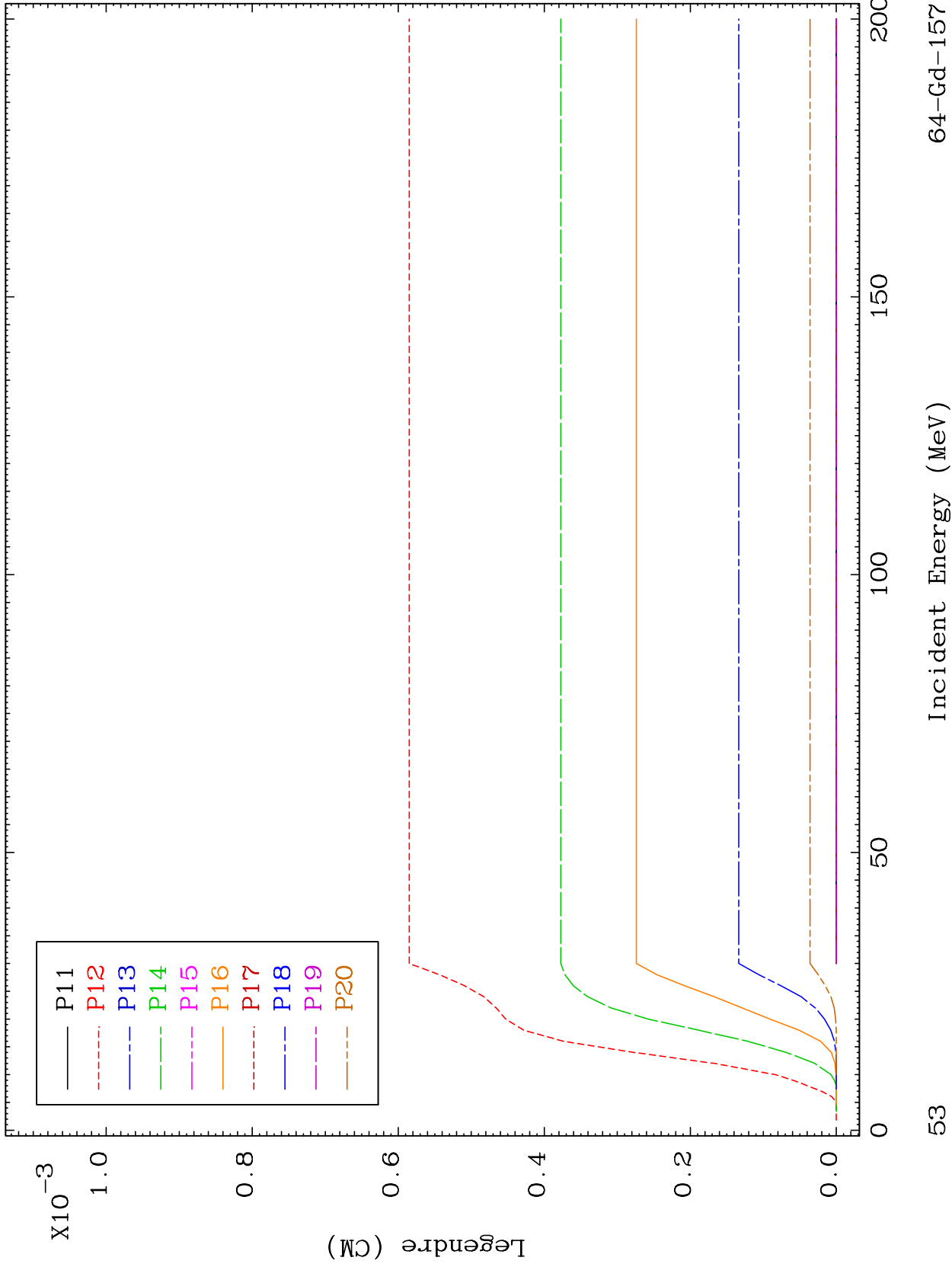




MAT 6440

372.0 keV (n,n') Level
Legendre Coefficients

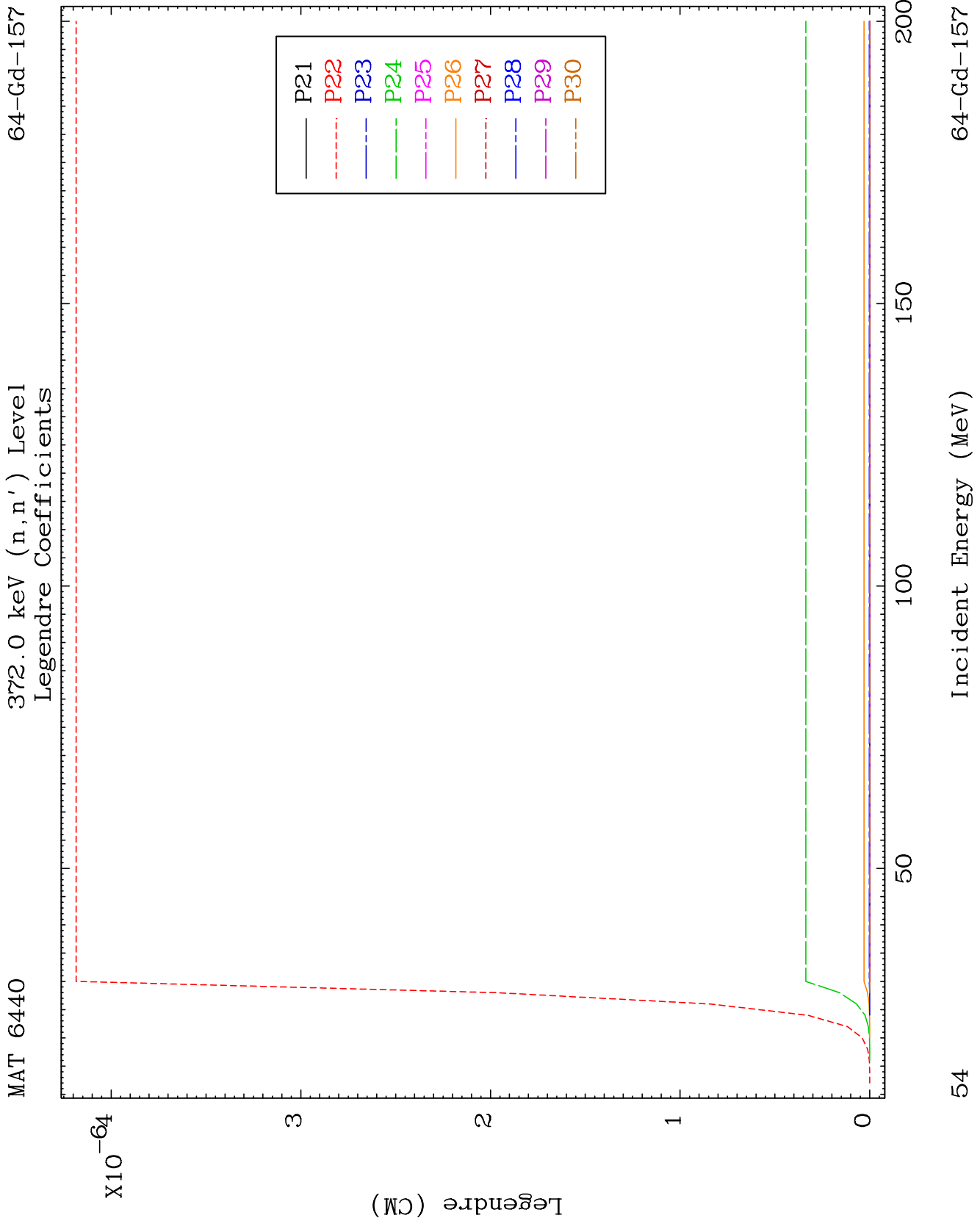
64-Gd-157

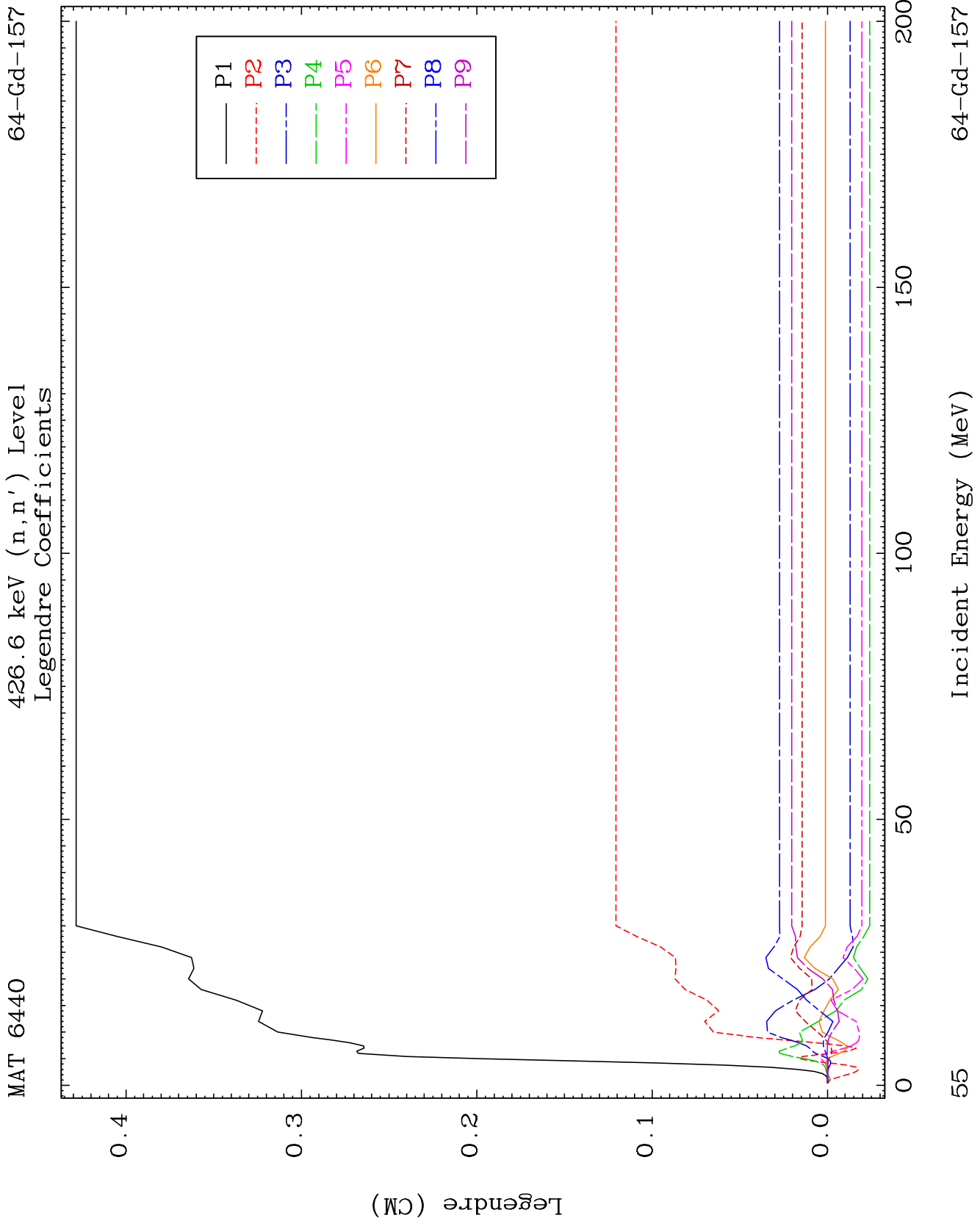


53

Incident Energy (MeV)

64-Gd-157

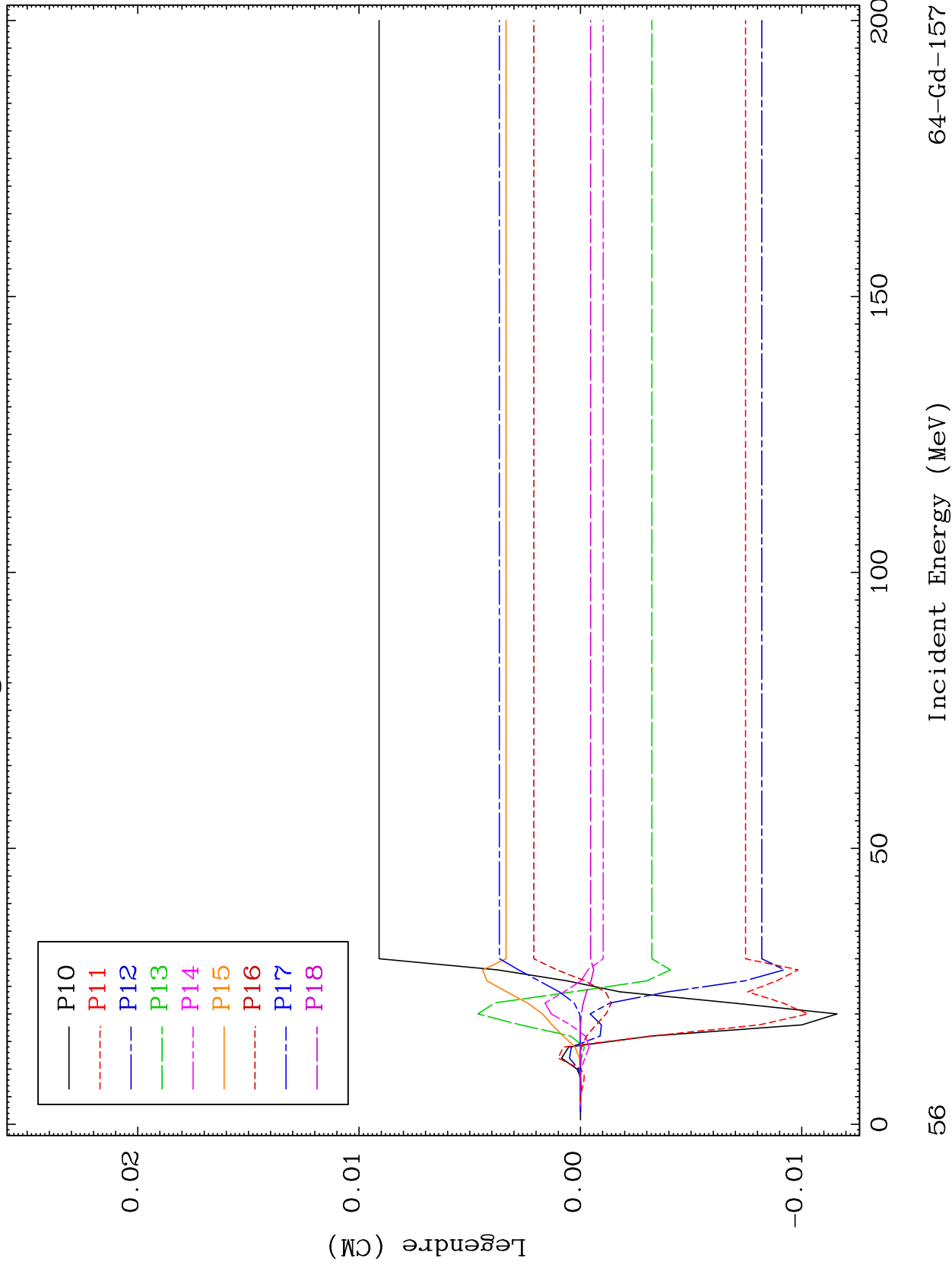




MAT 6440

426.6 keV (n,n') Level
Legendre Coefficients

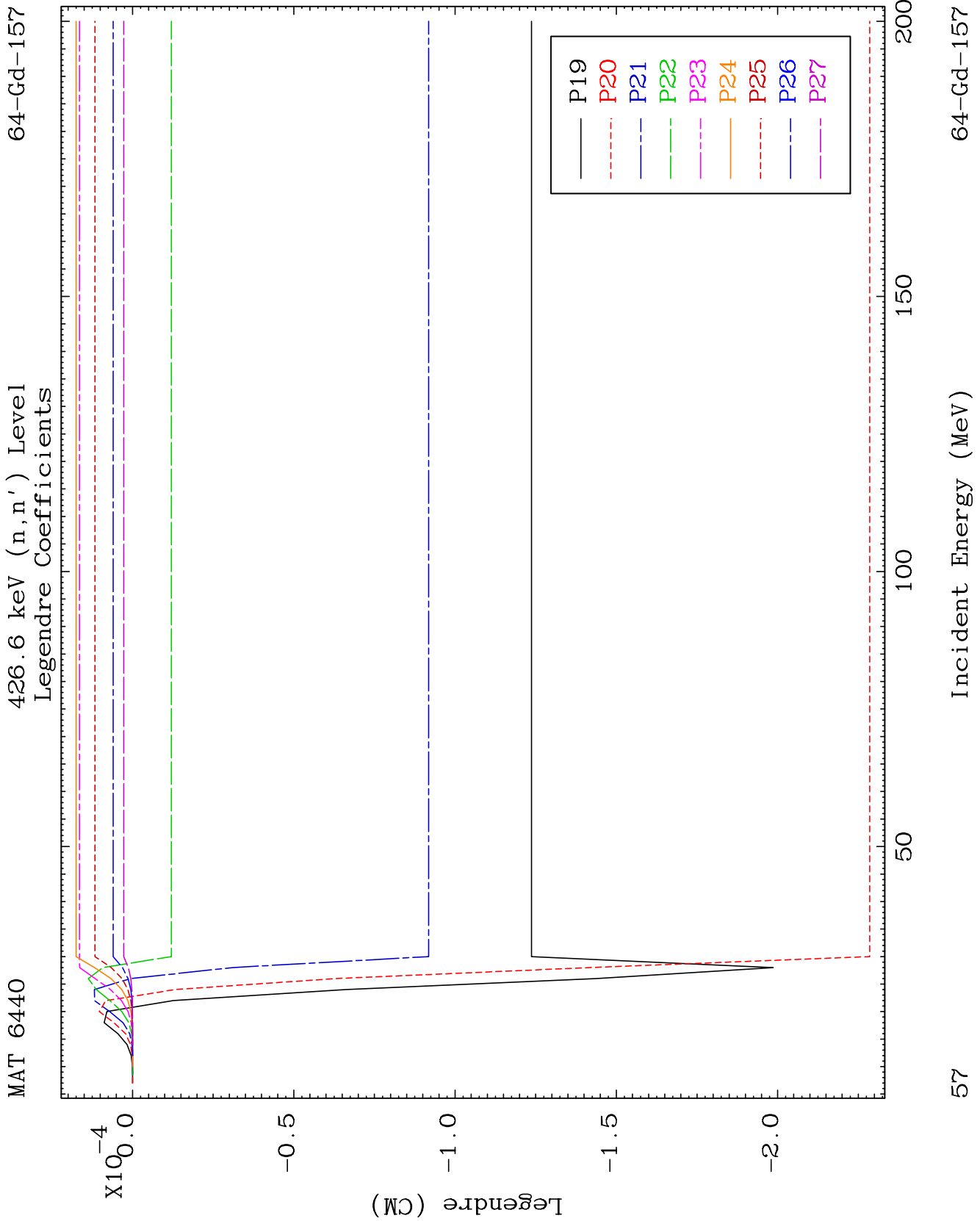
64-Gd-157

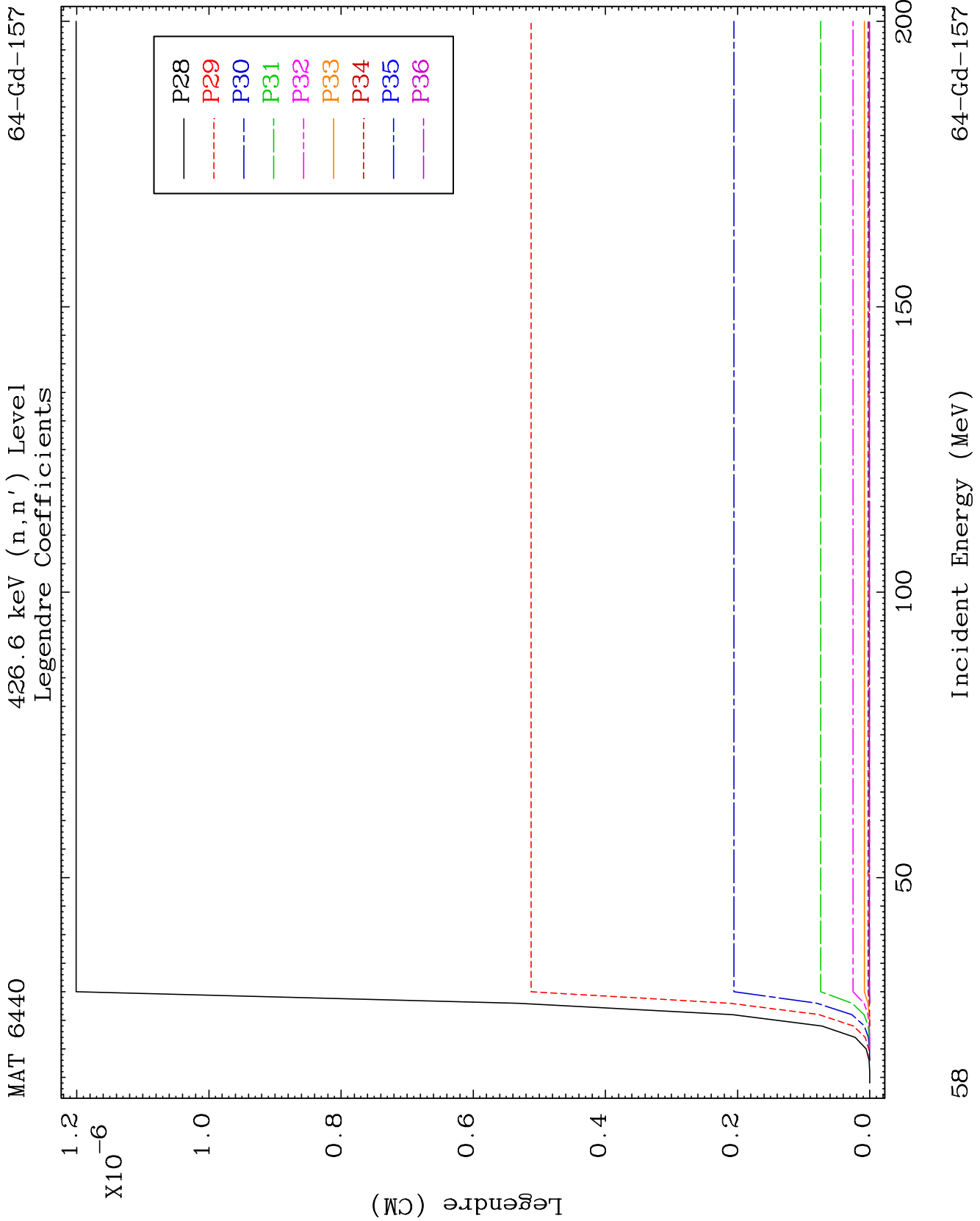


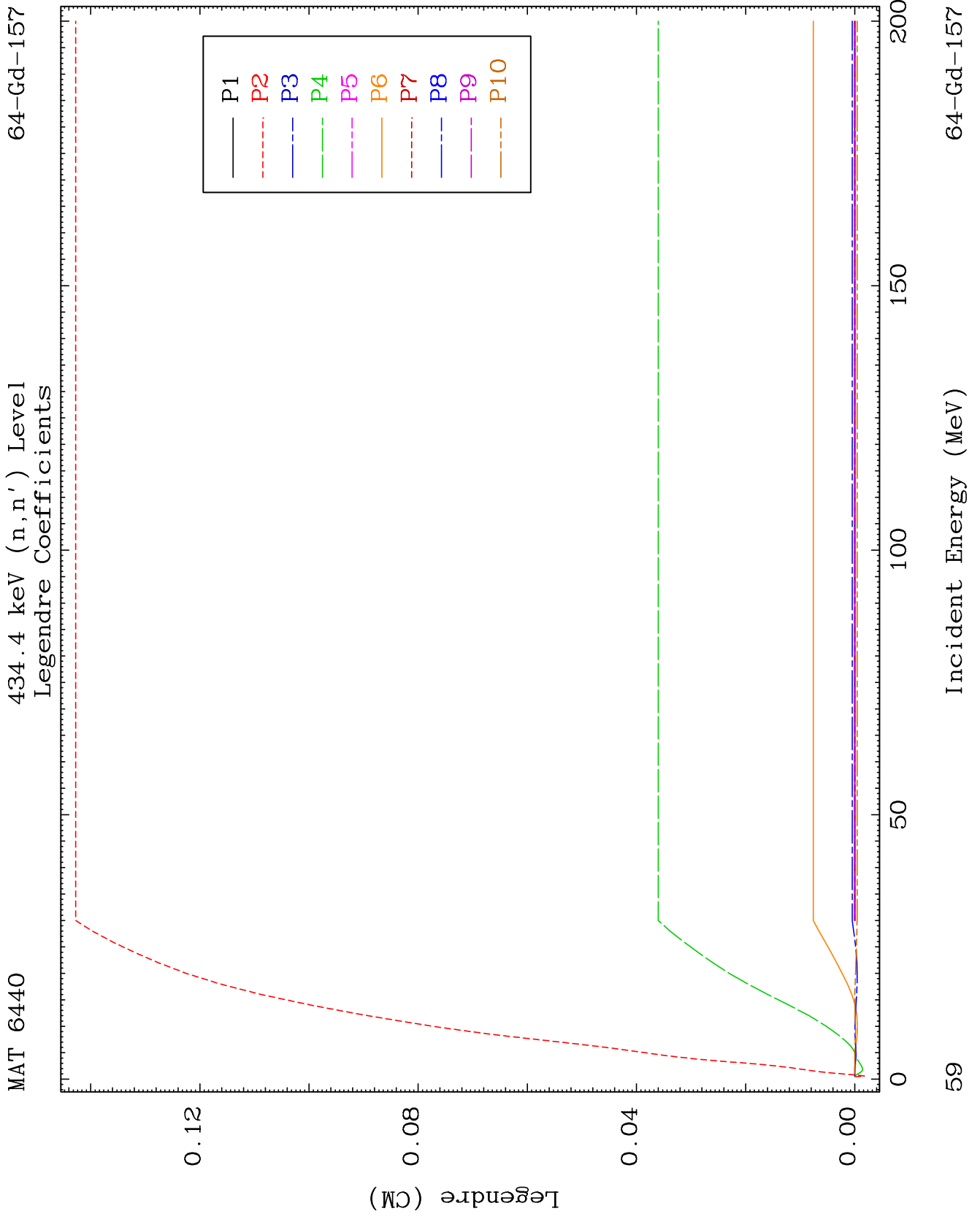
56

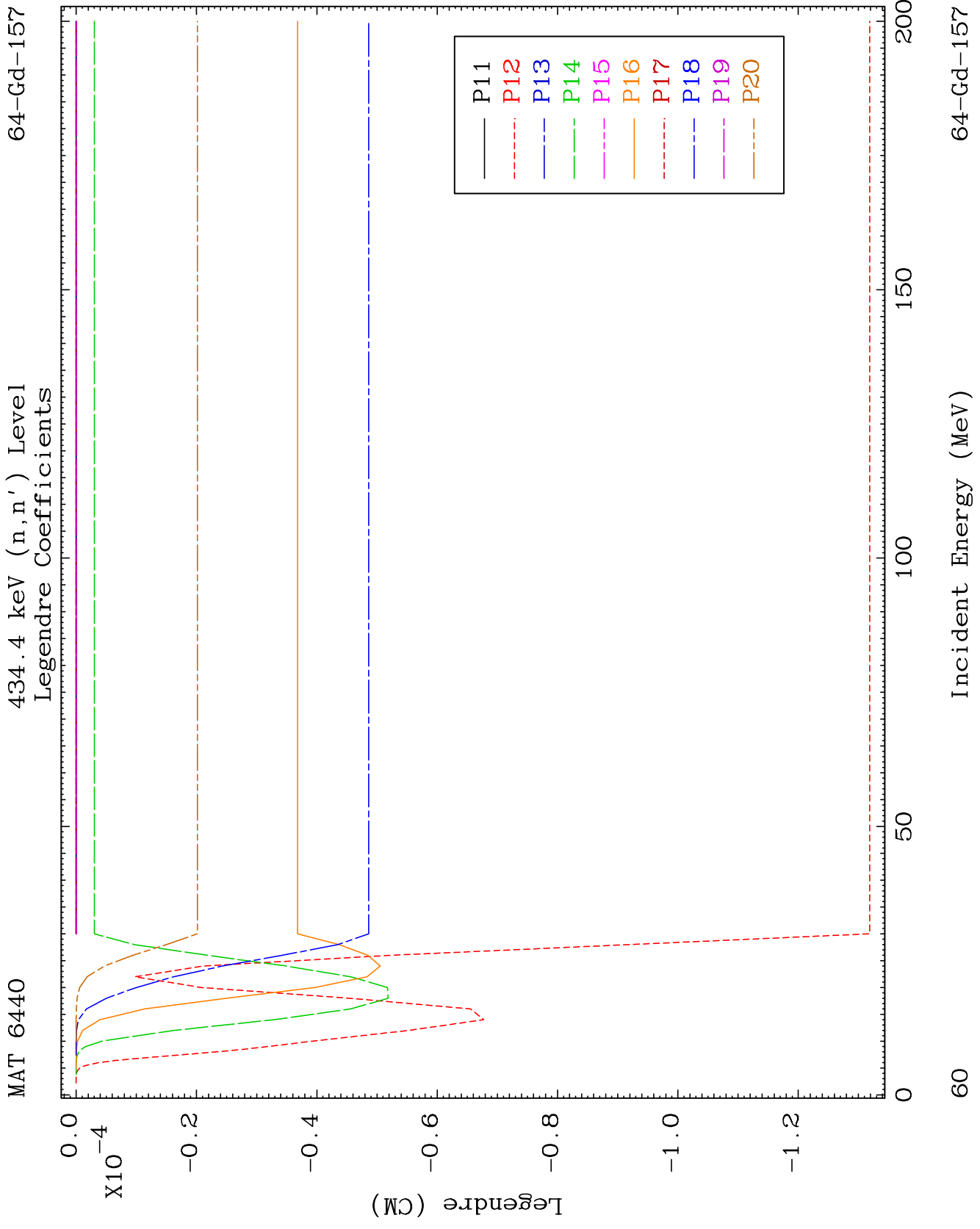
Incident Energy (MeV)

64-Gd-157





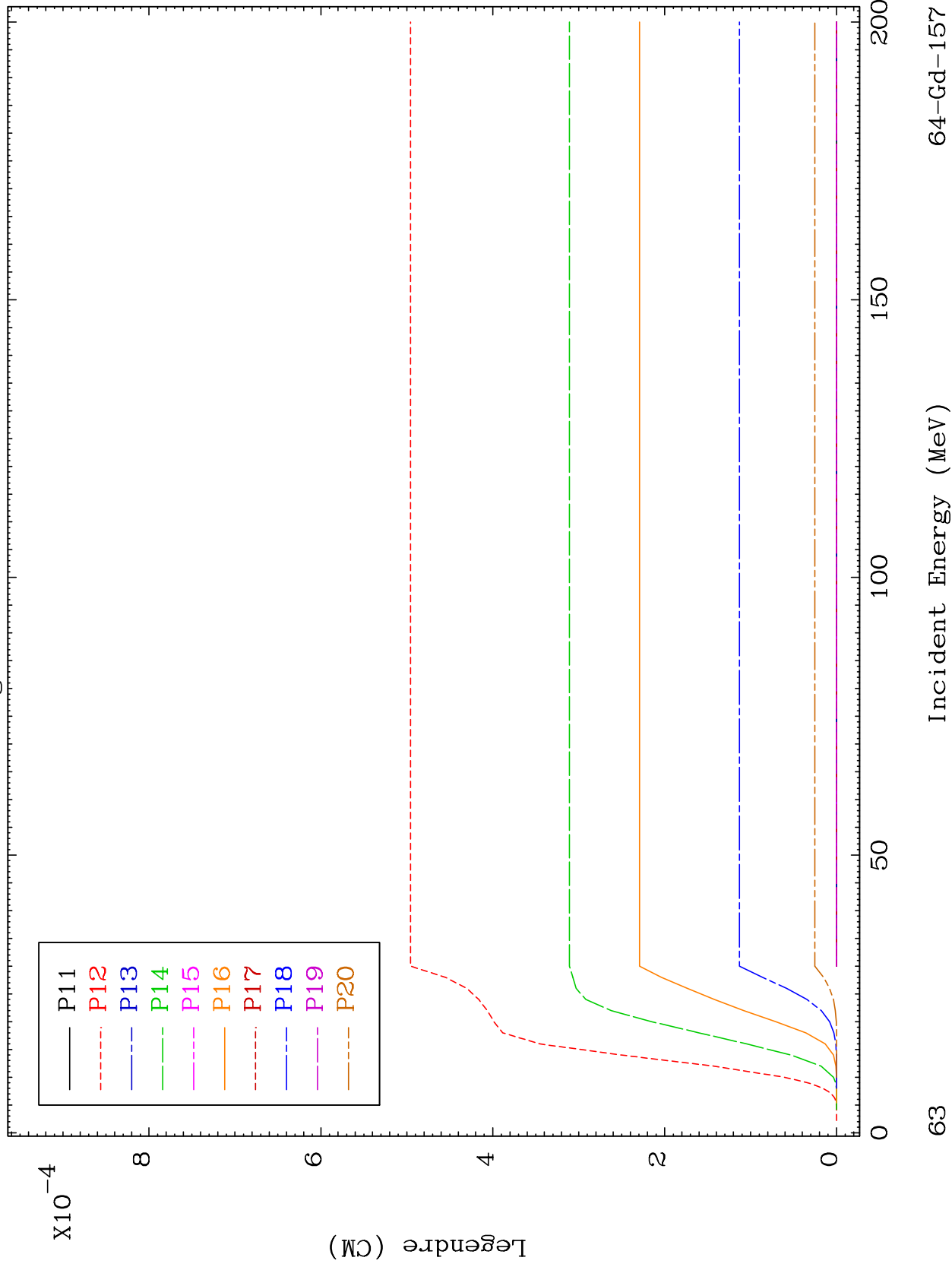




MAT 6440

474.6 keV (n,n') Level
Legendre Coefficients

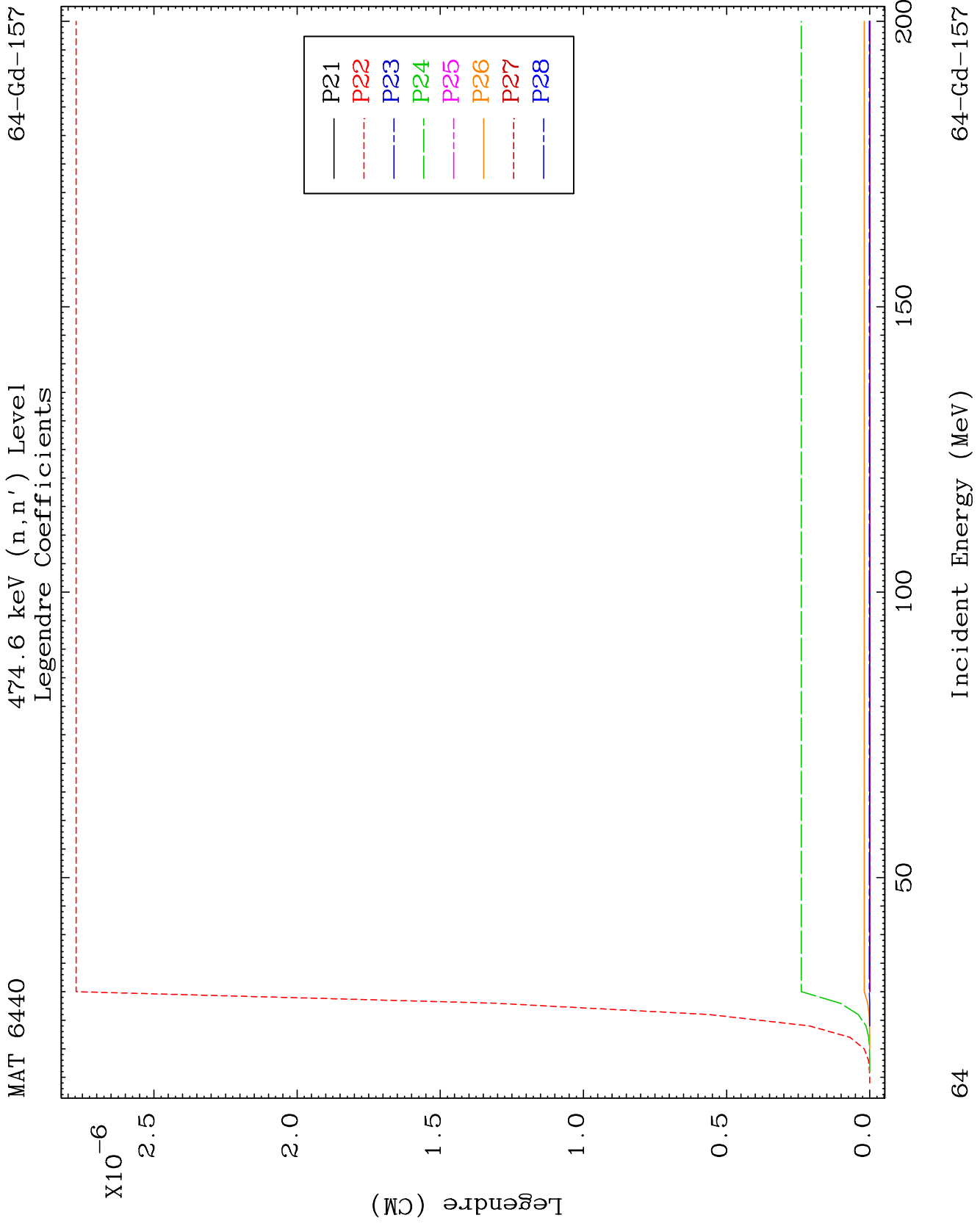
64-Gd-157

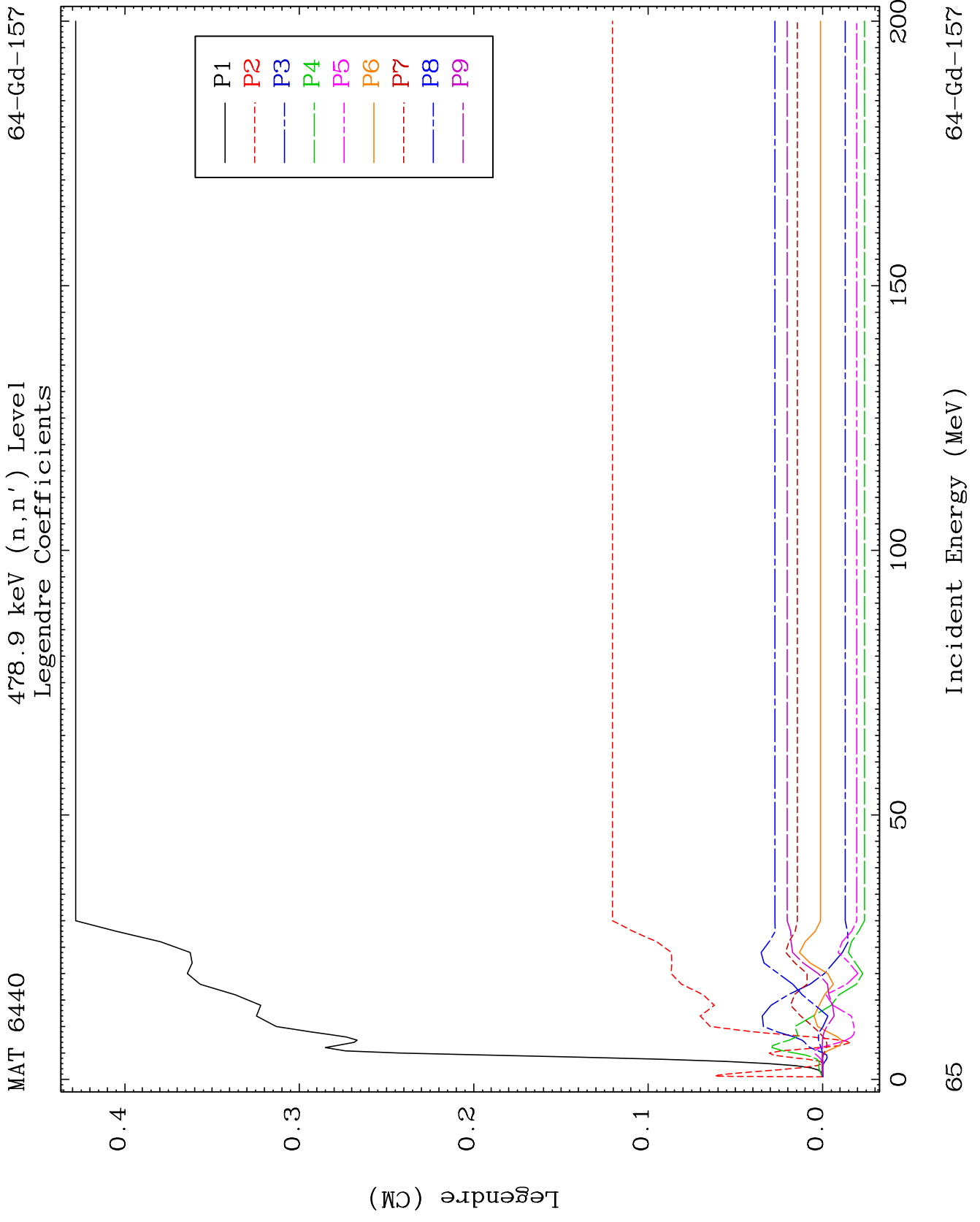


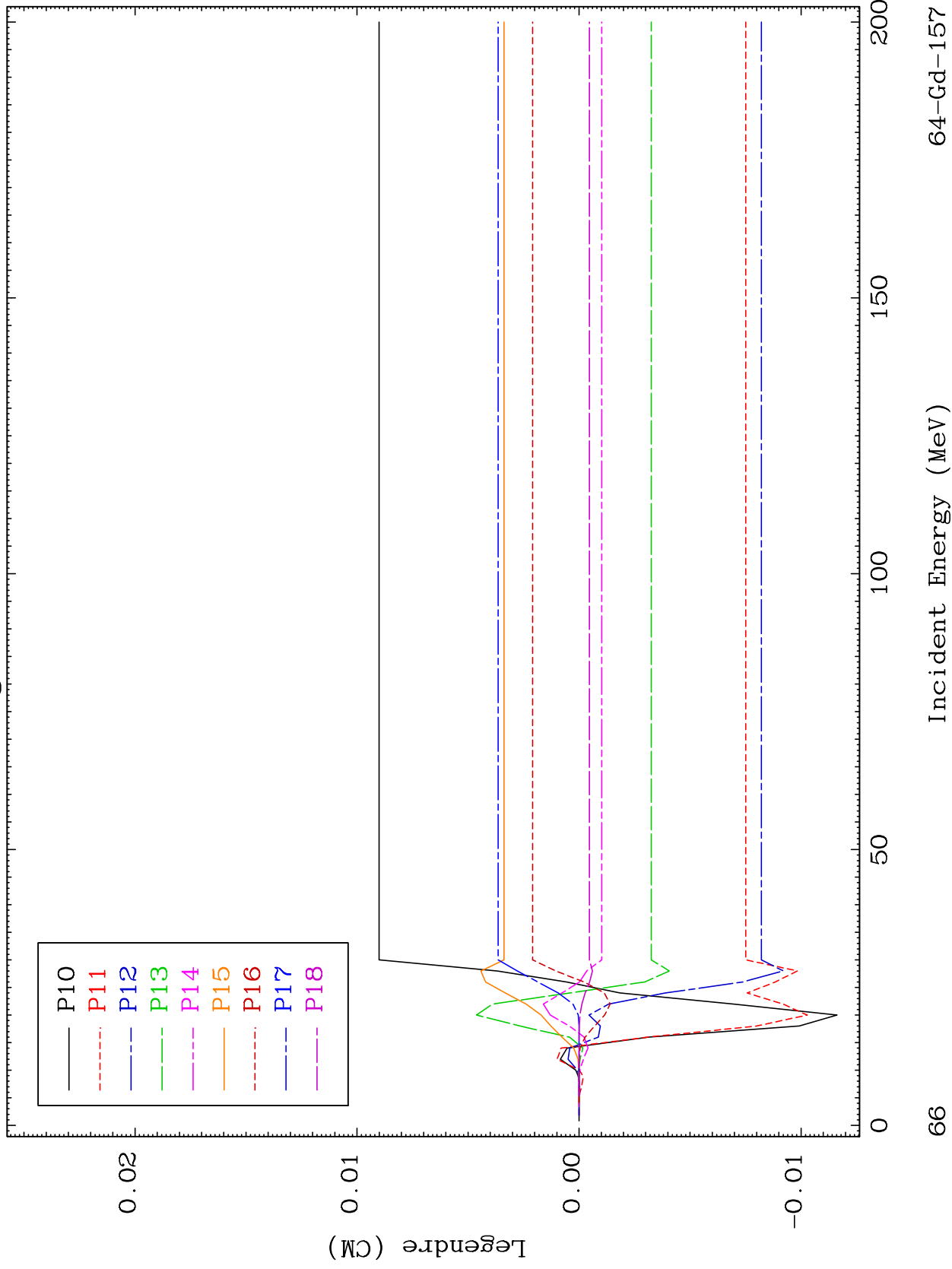
63

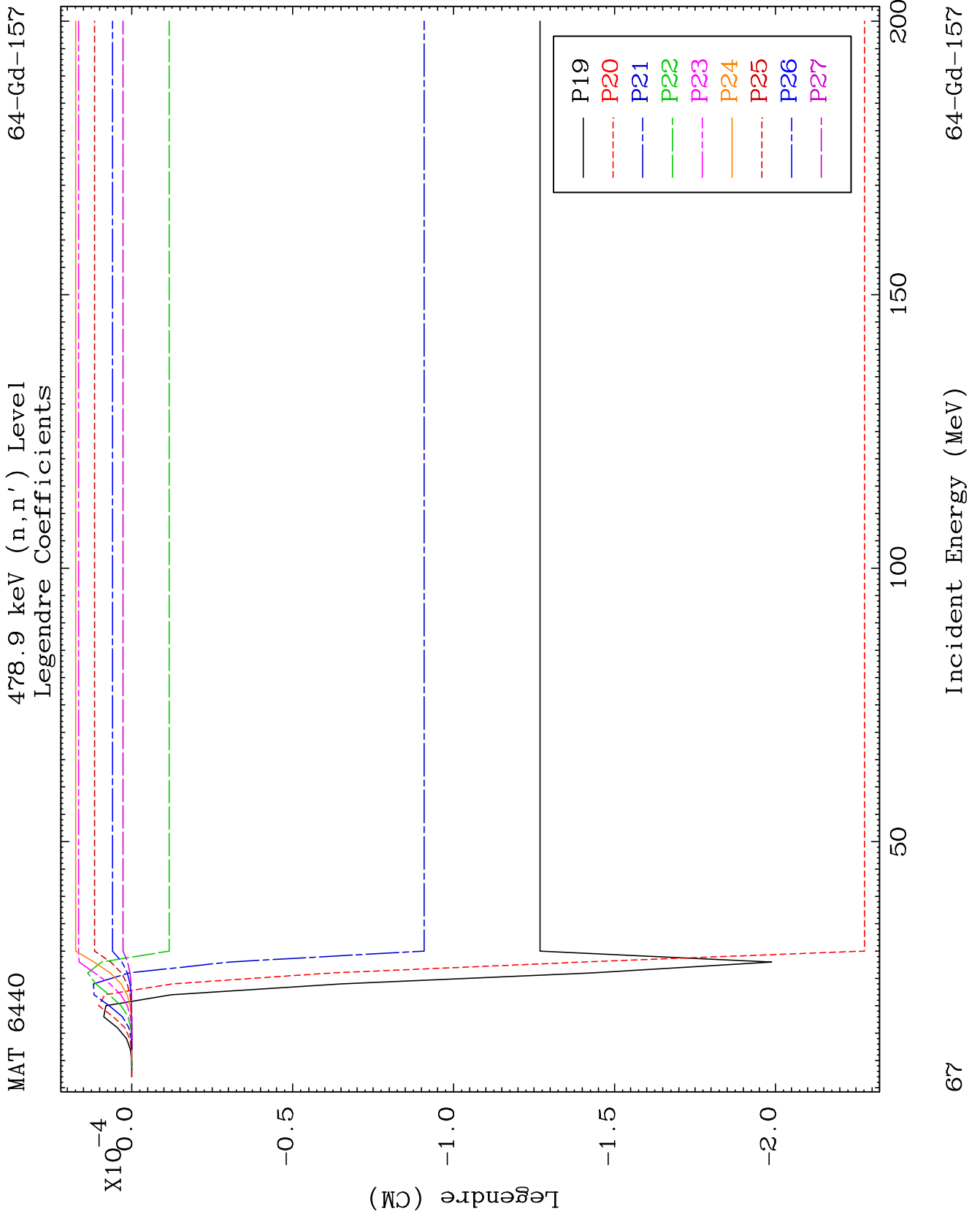
Incident Energy (MeV)

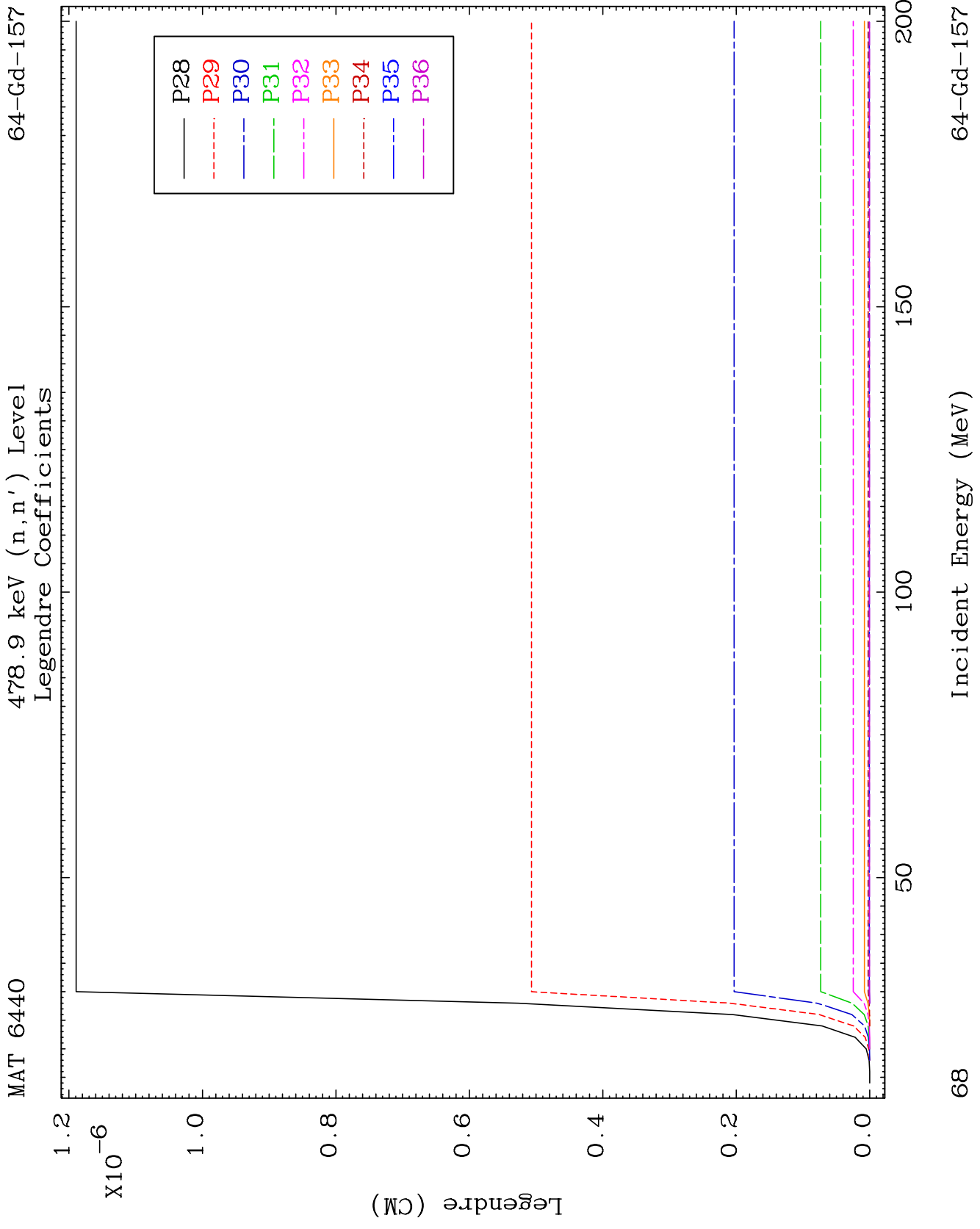
64-Gd-157

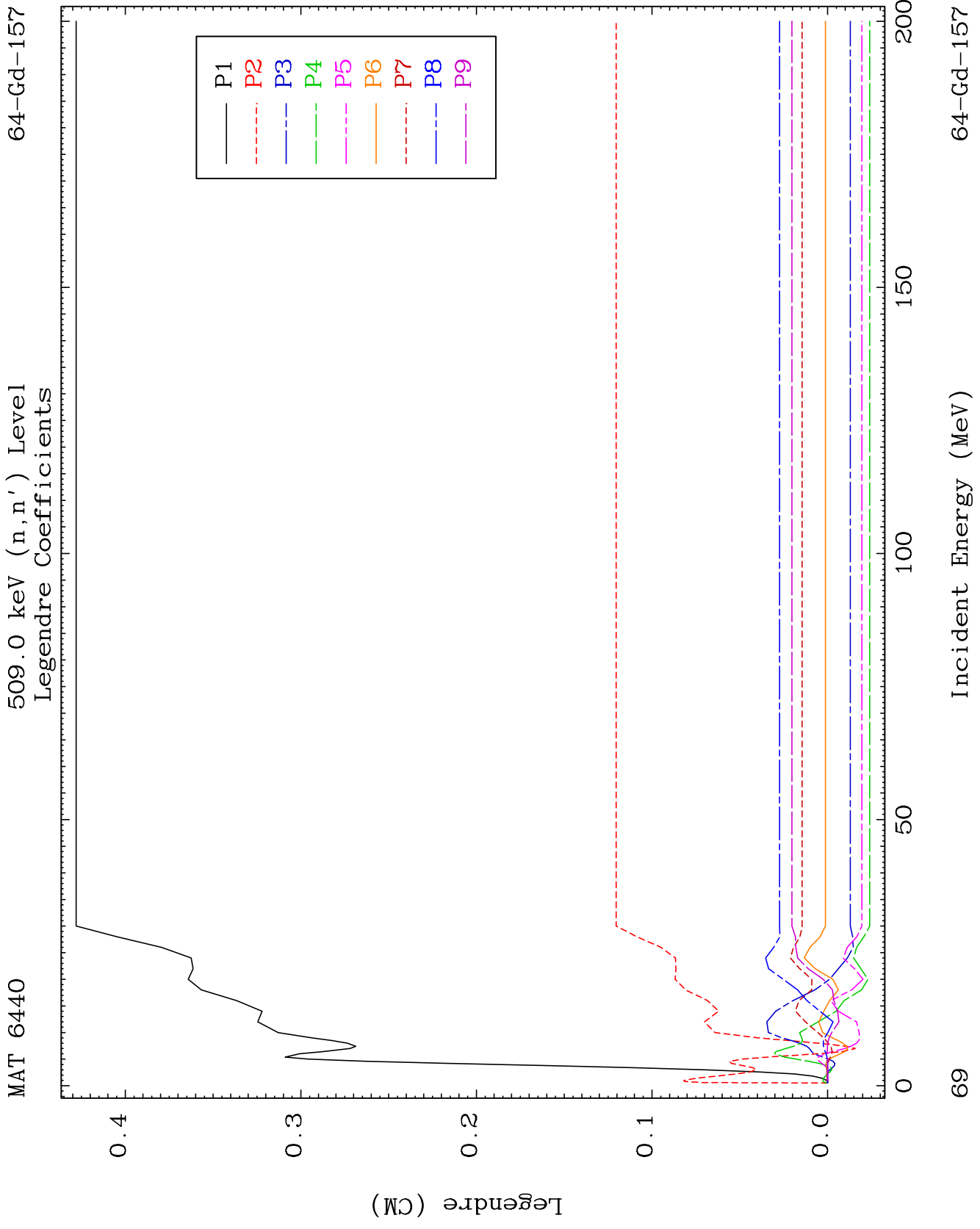


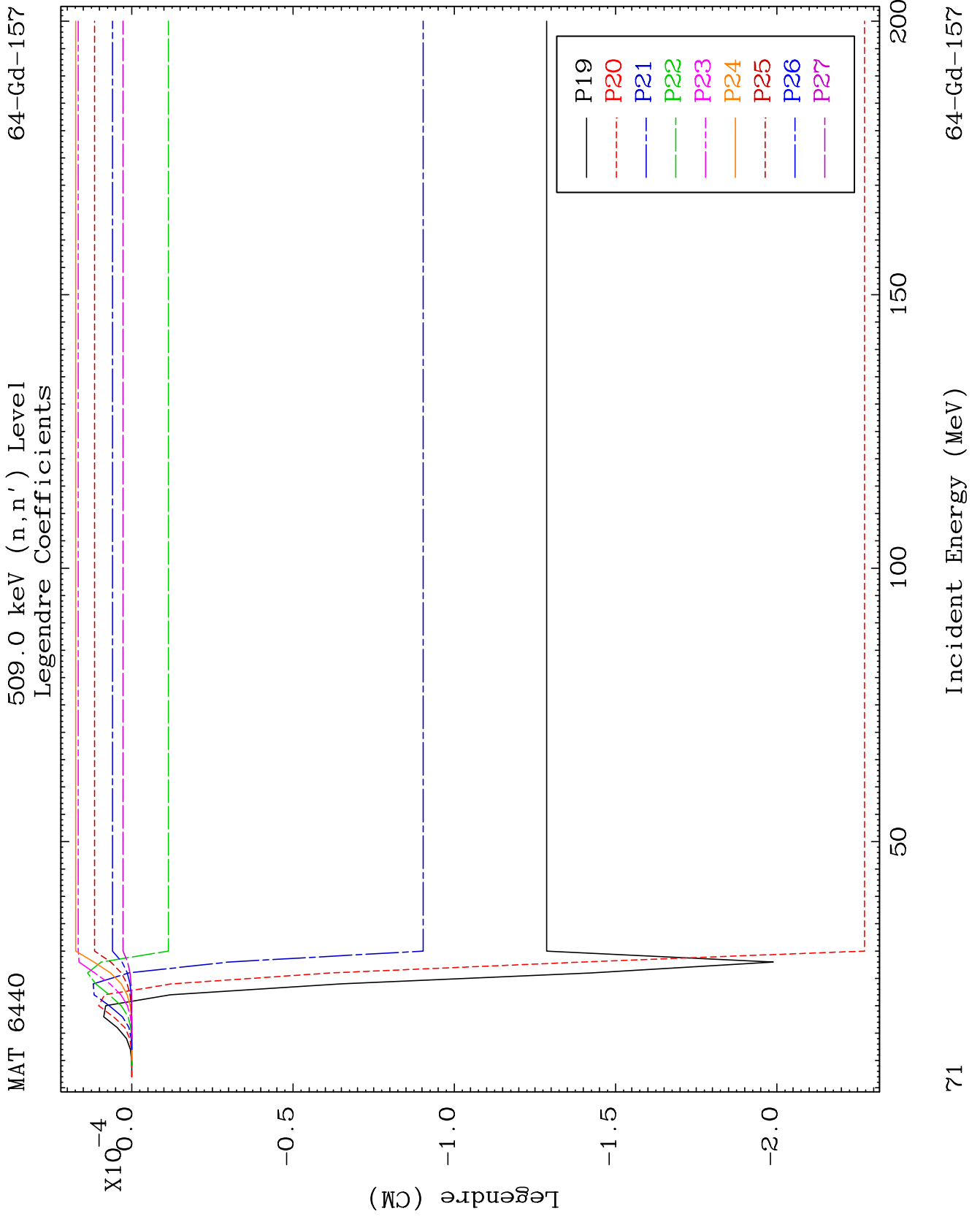


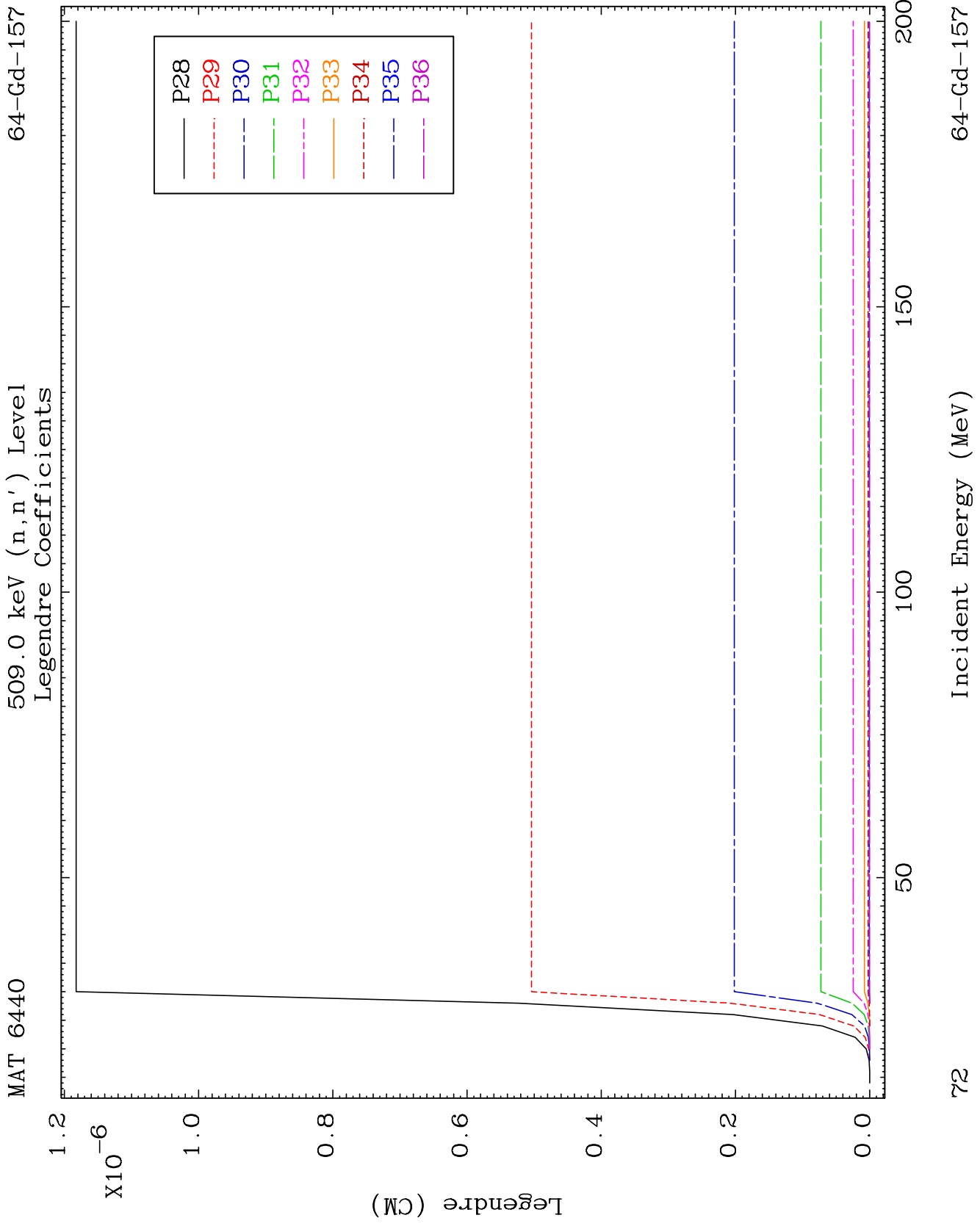


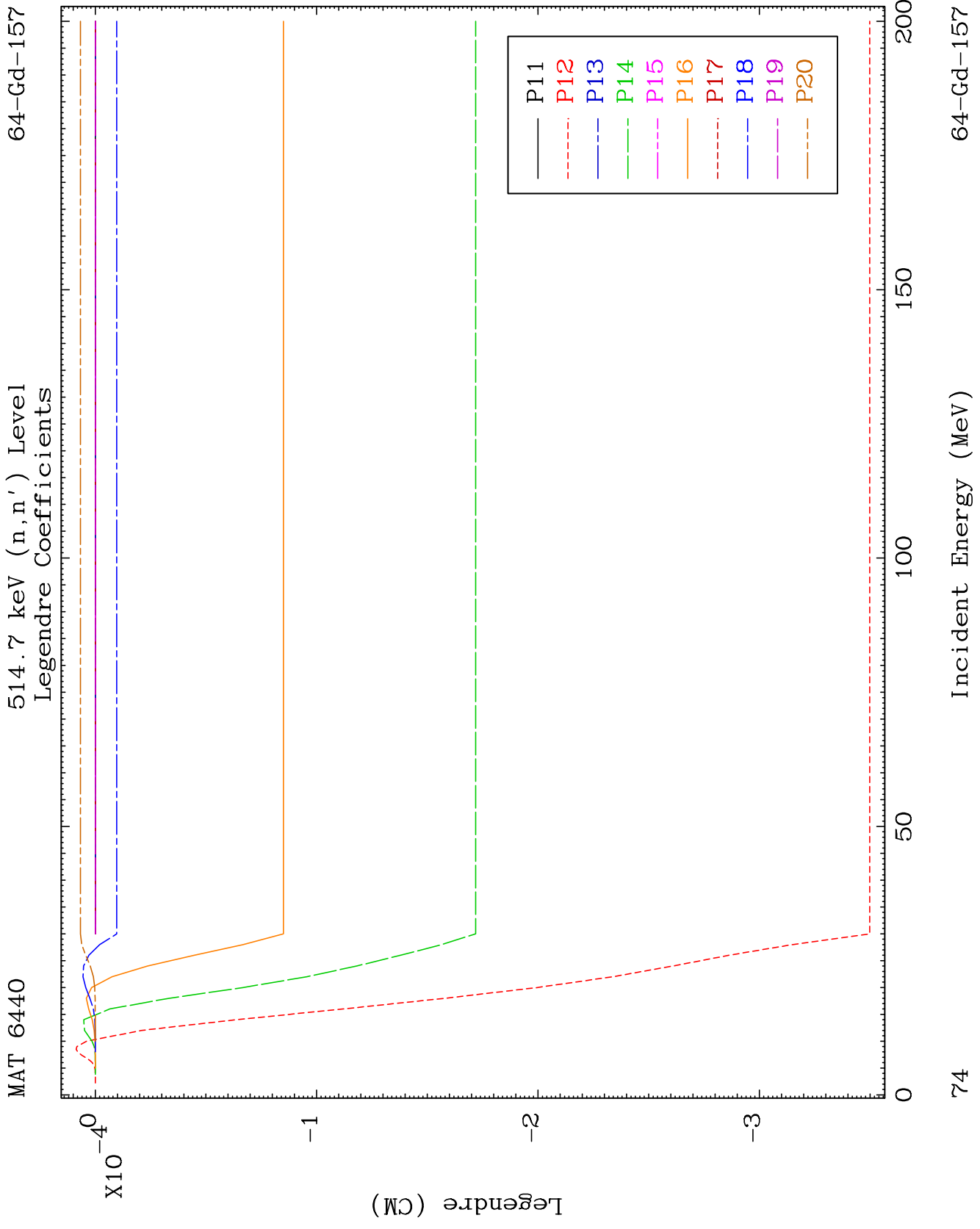


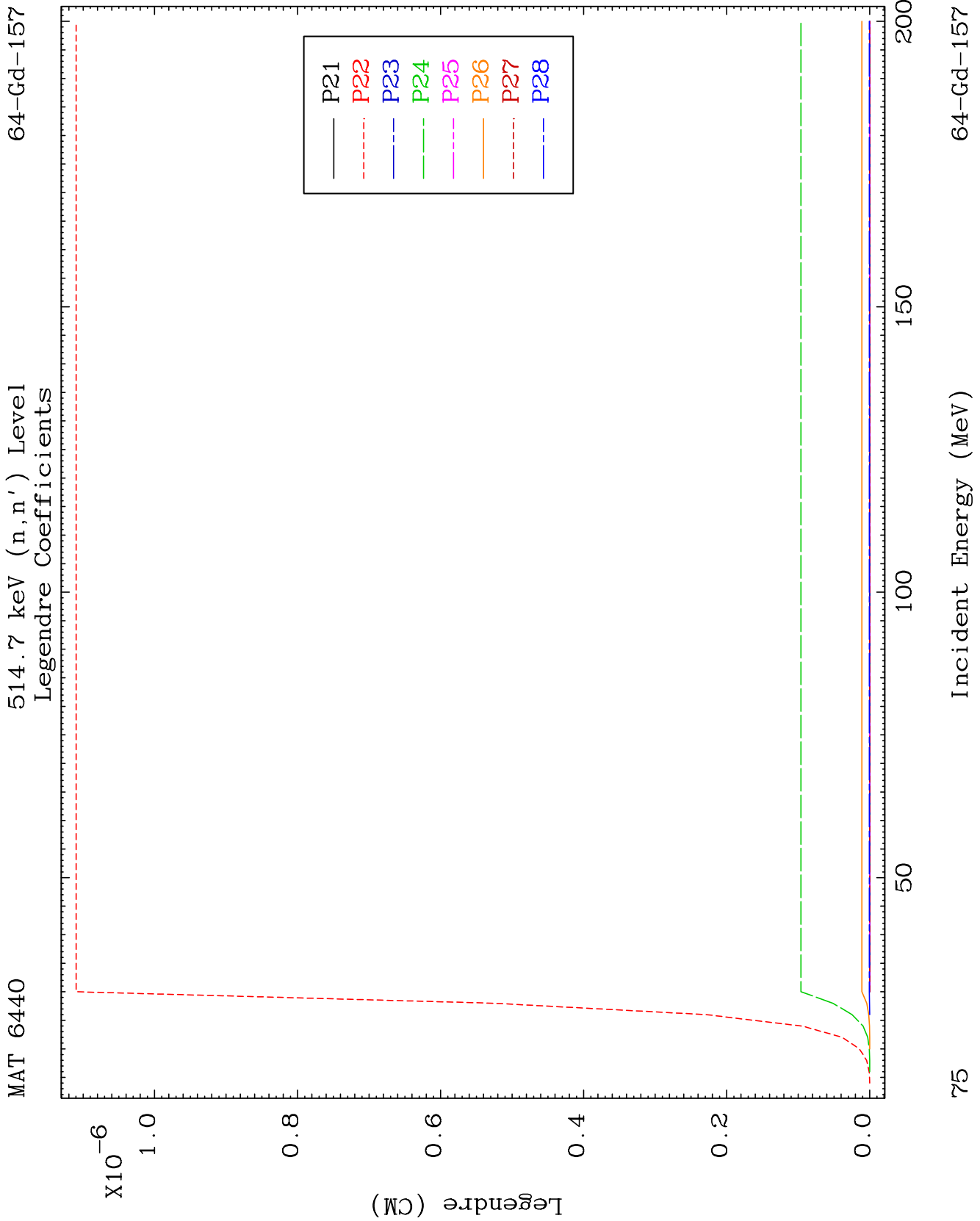


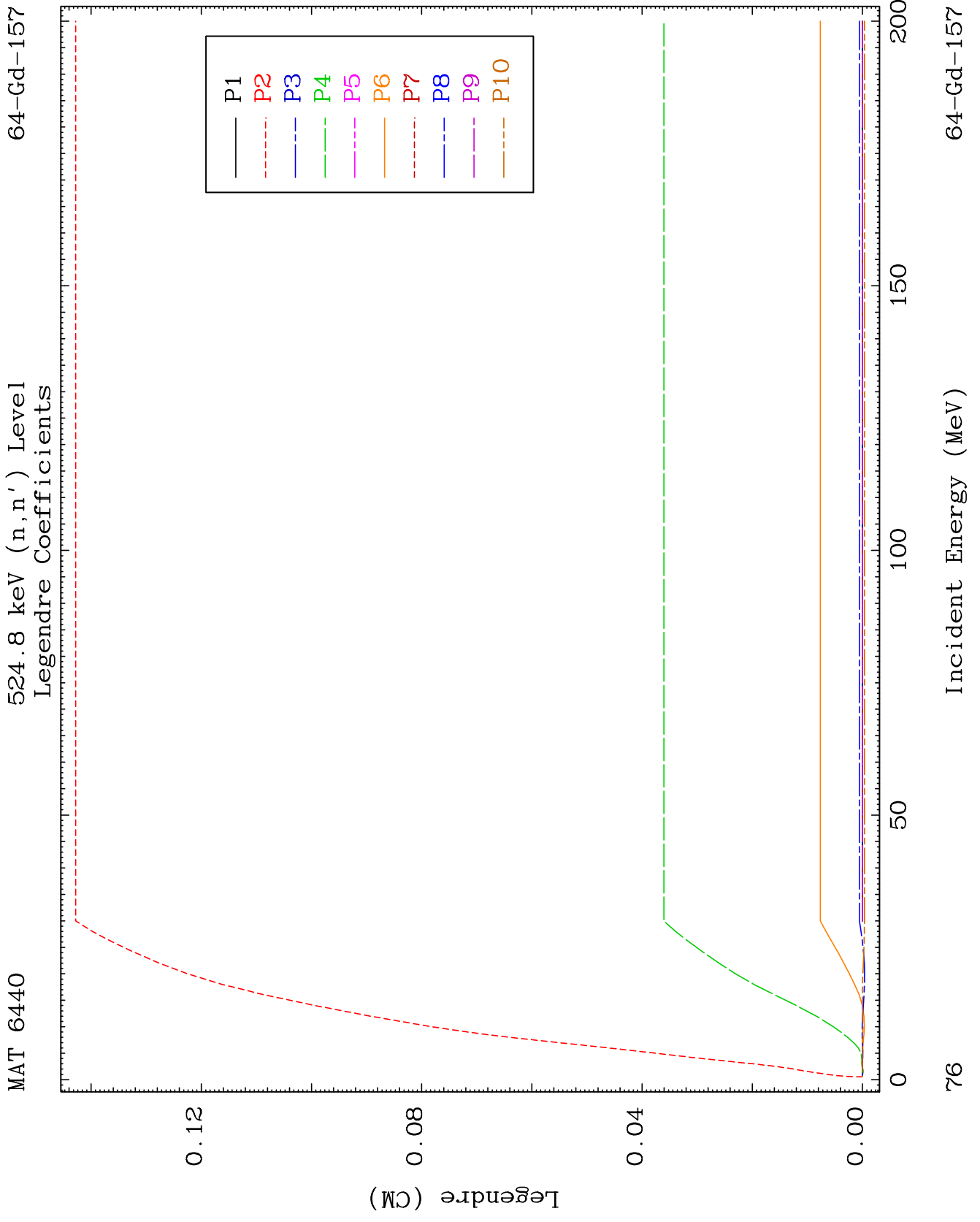








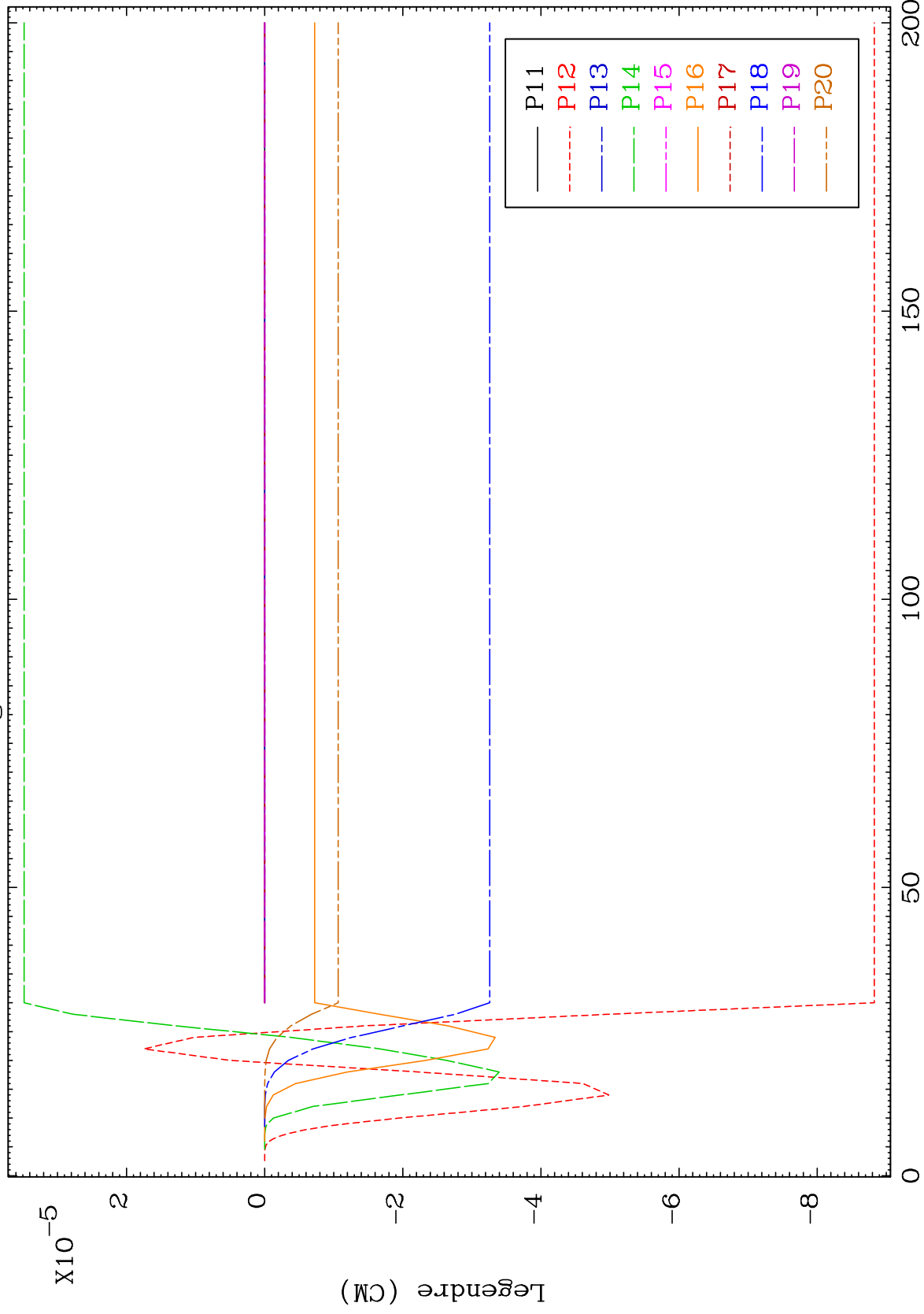




MAT 6440

524.8 keV (n,n') Level
Legendre Coefficients

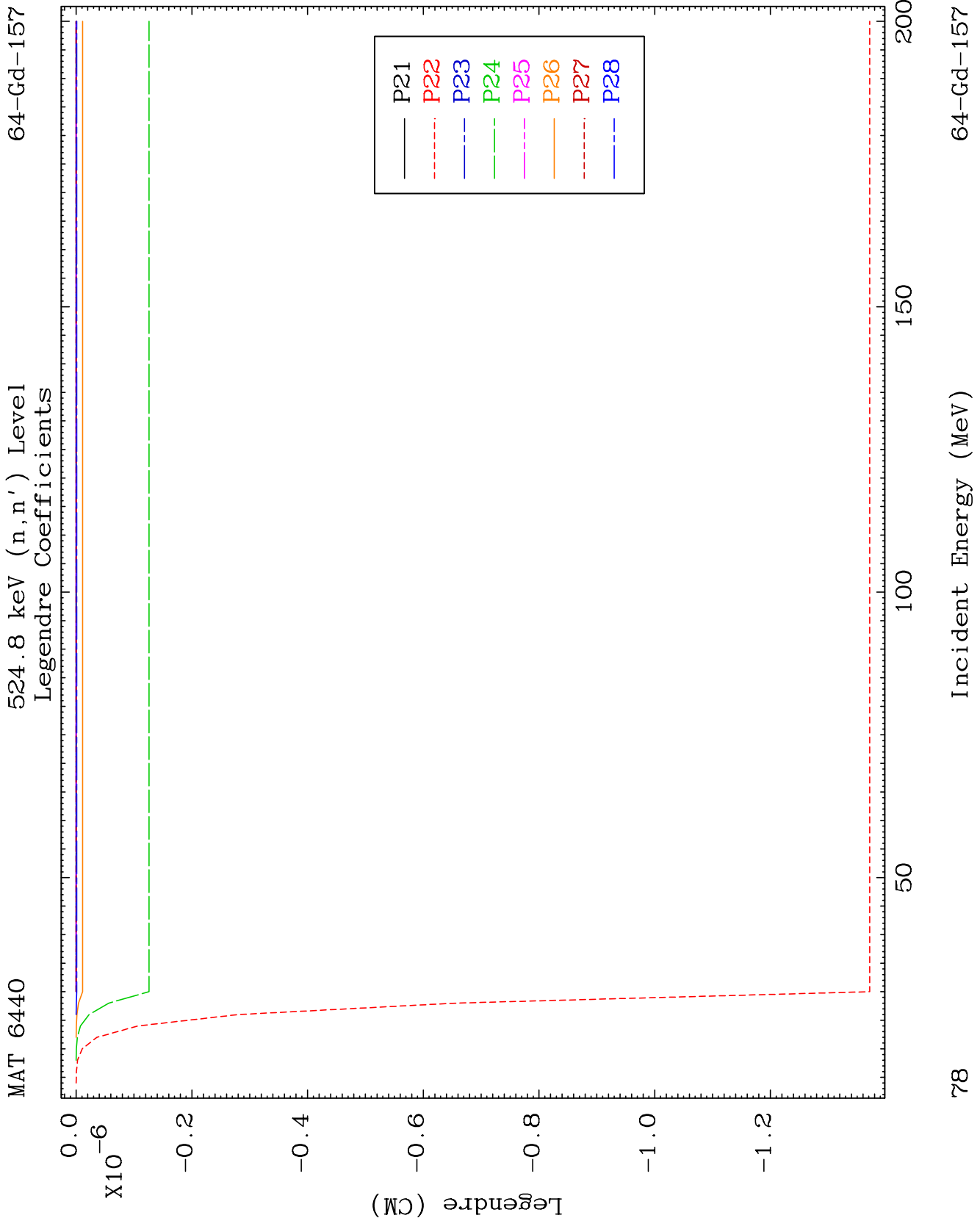
64-Gd-157

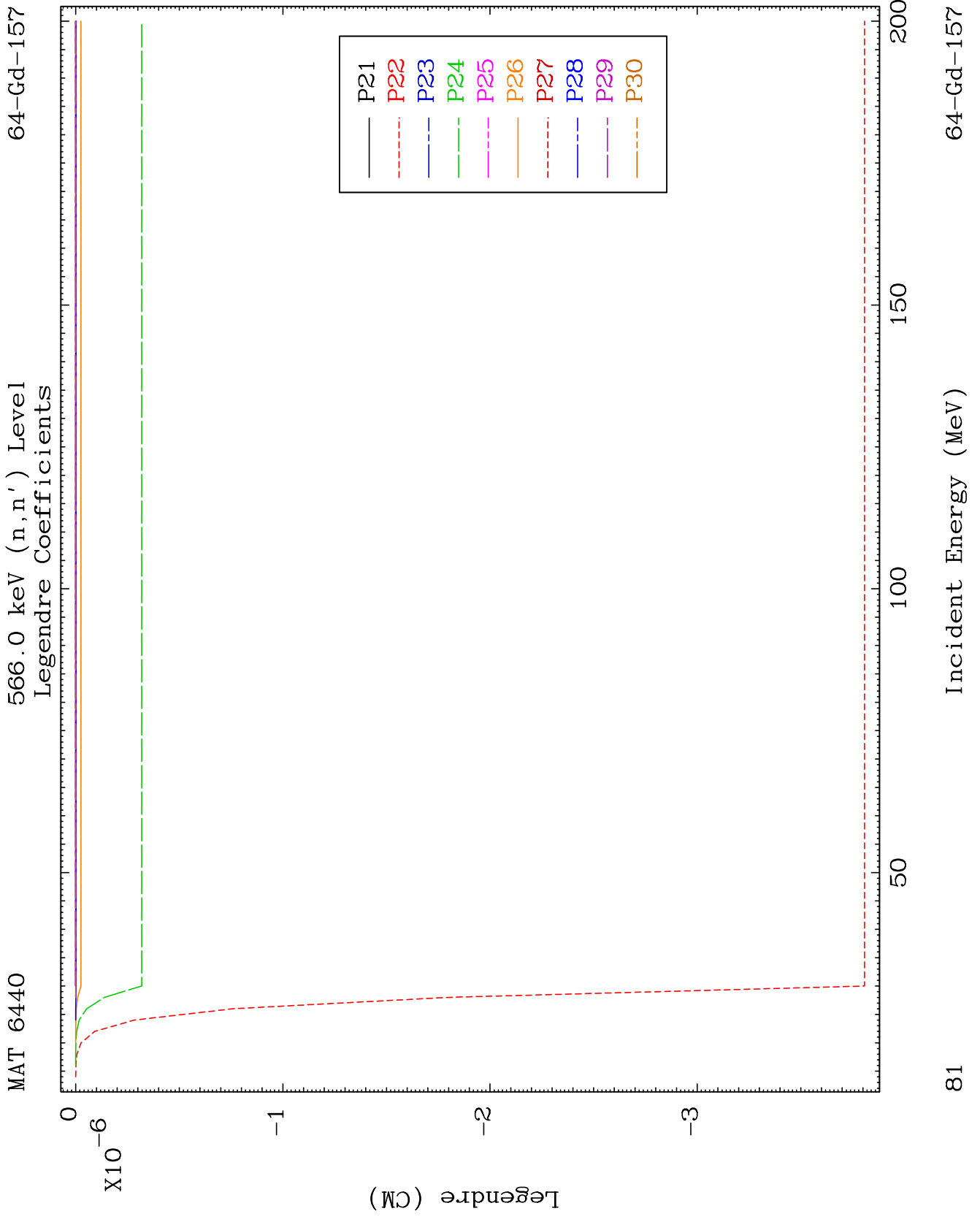


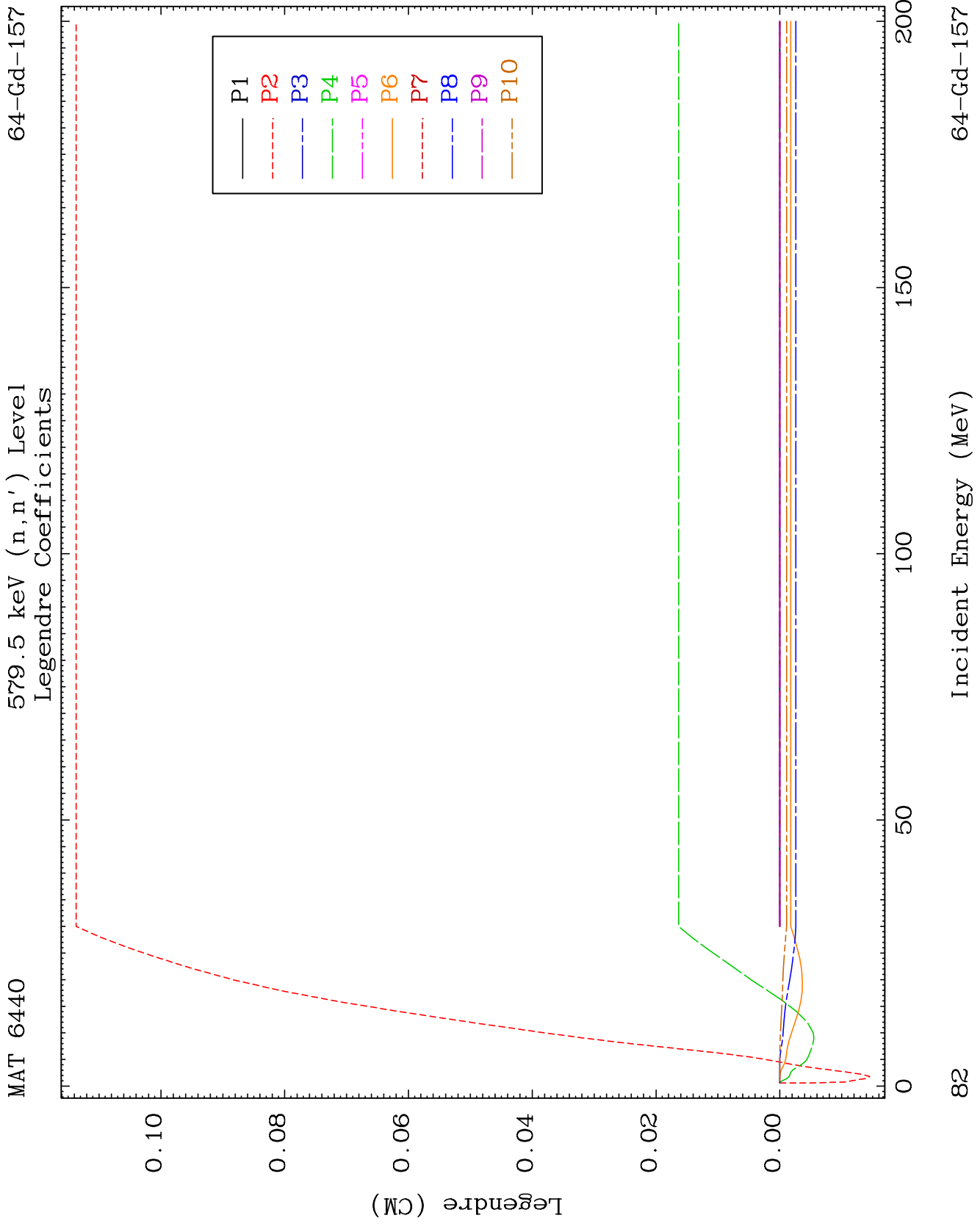
77

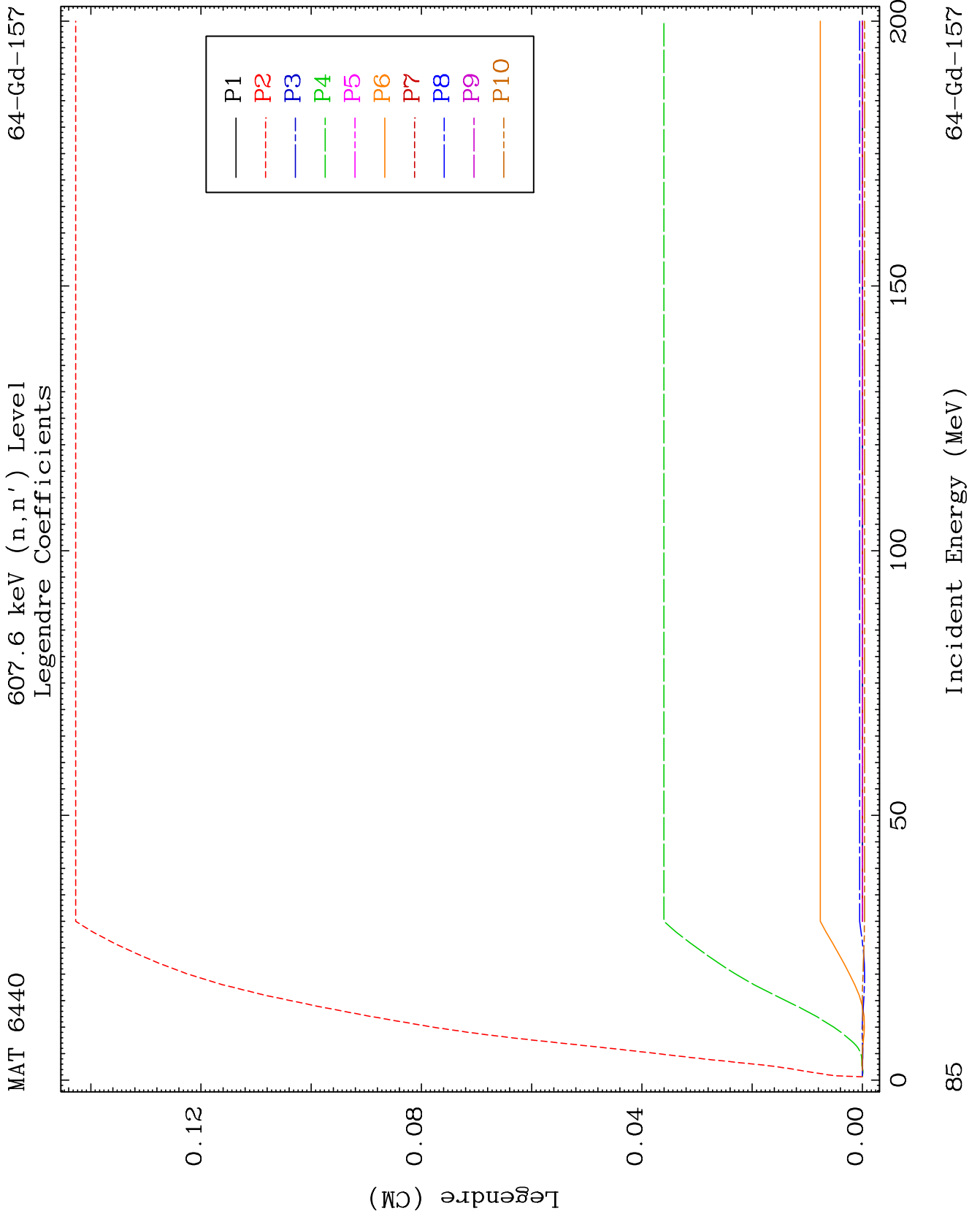
Incident Energy (MeV)

64-Gd-157





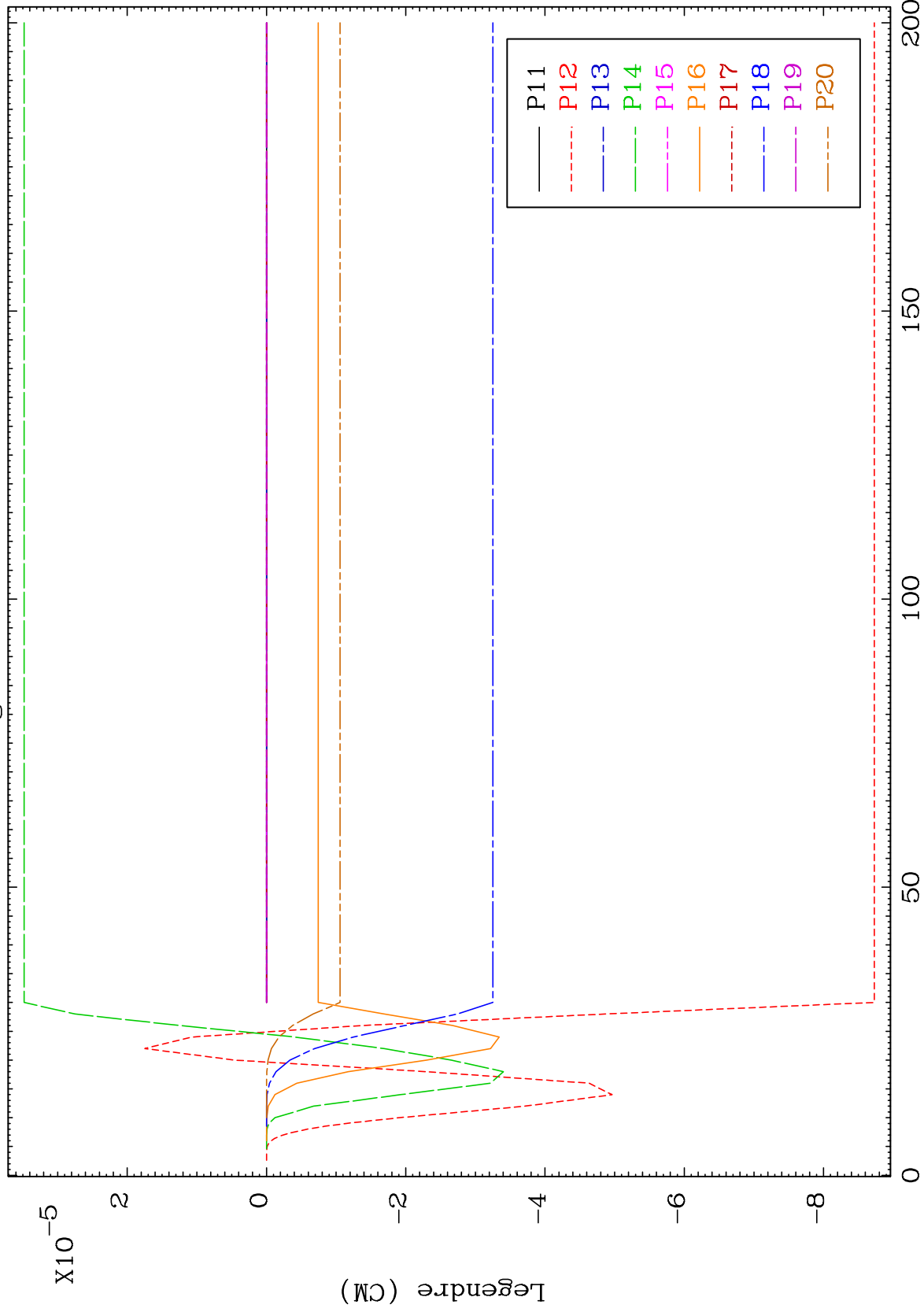




MAT 6440

607.6 keV (n,n') Level
Legendre Coefficients

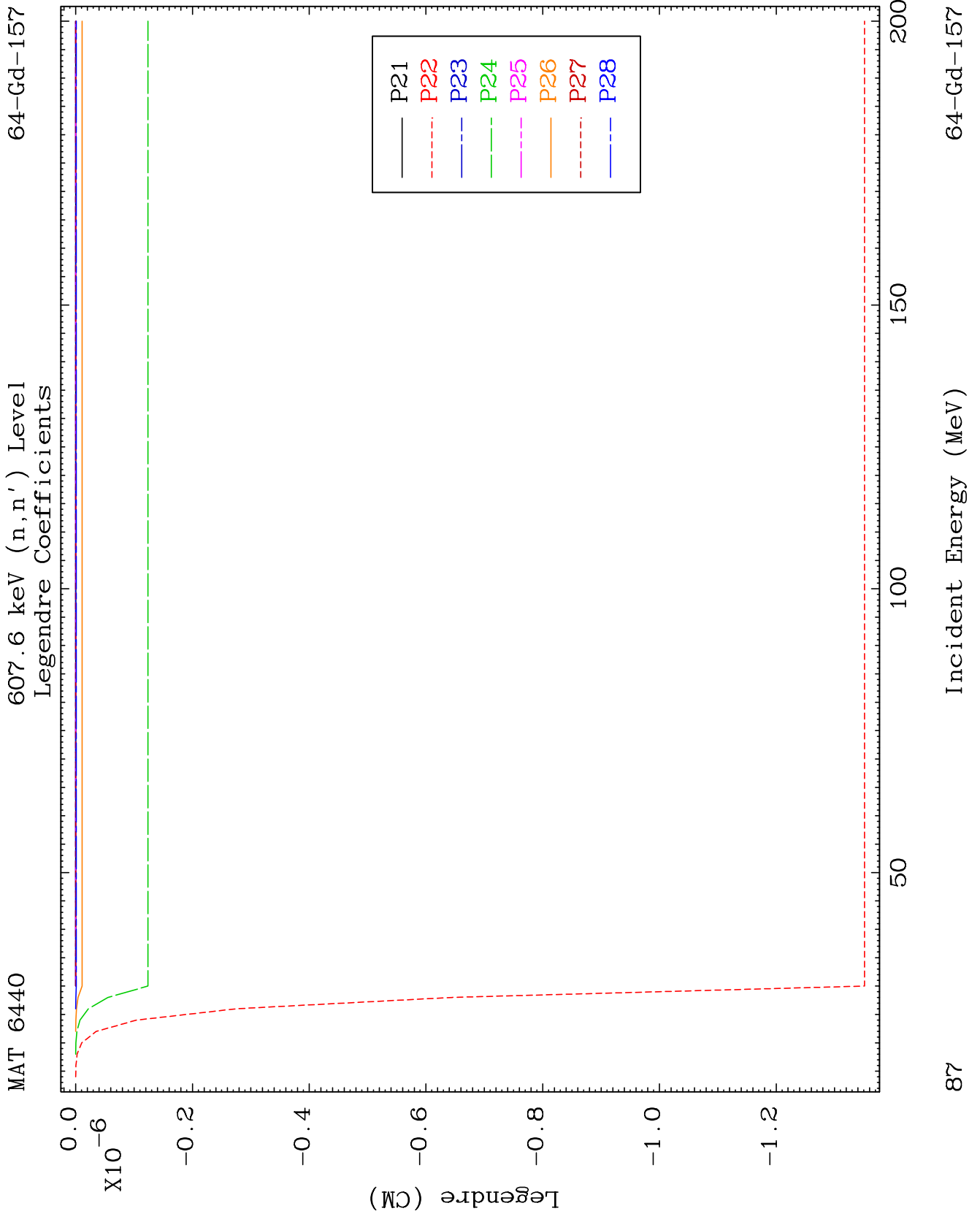
64-Gd-157



86

Incident Energy (MeV)

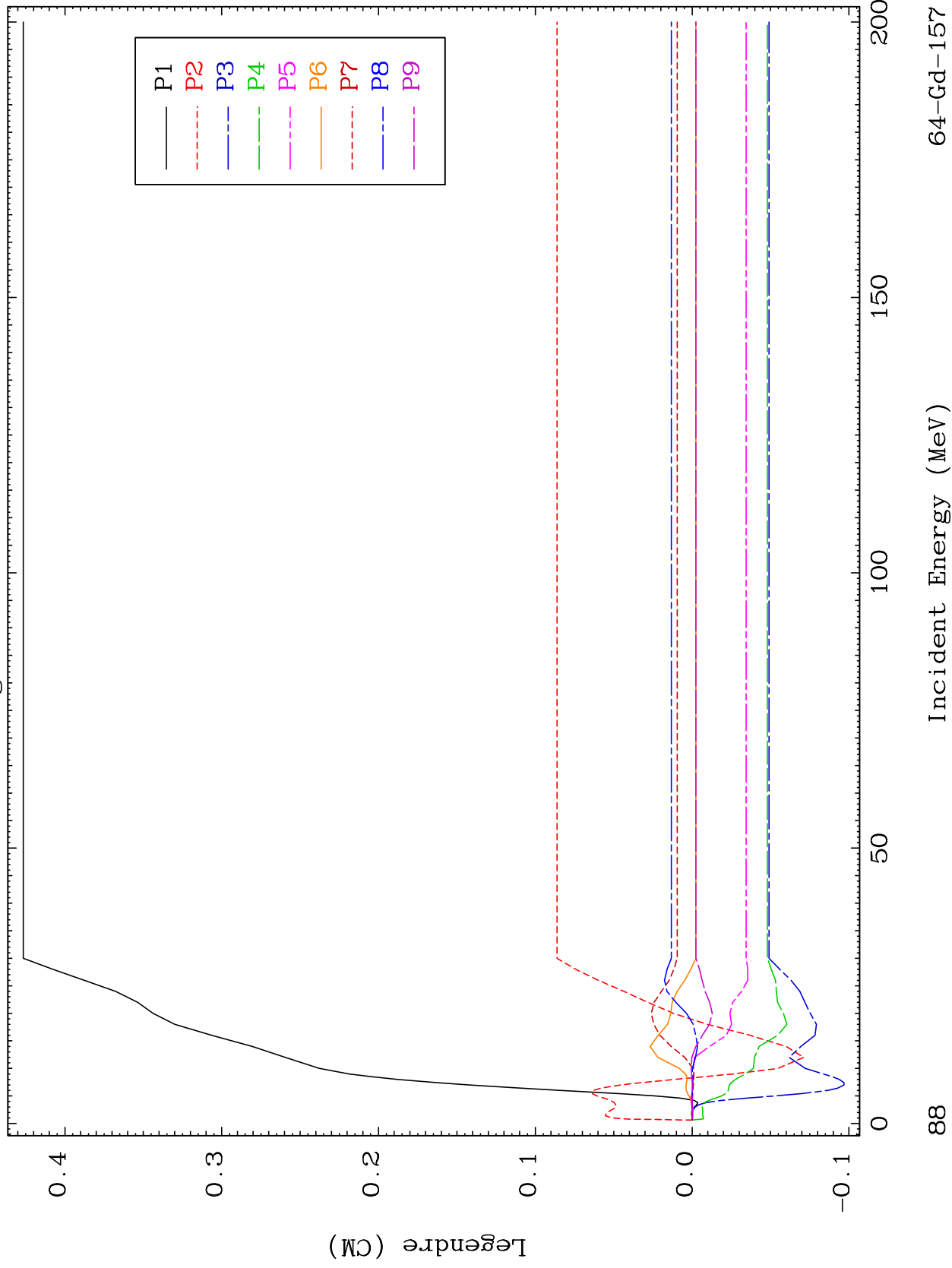
64-Gd-157



MAT 6440

612.4 keV (n,n') Level
Legendre Coefficients

64-Gd-157



88

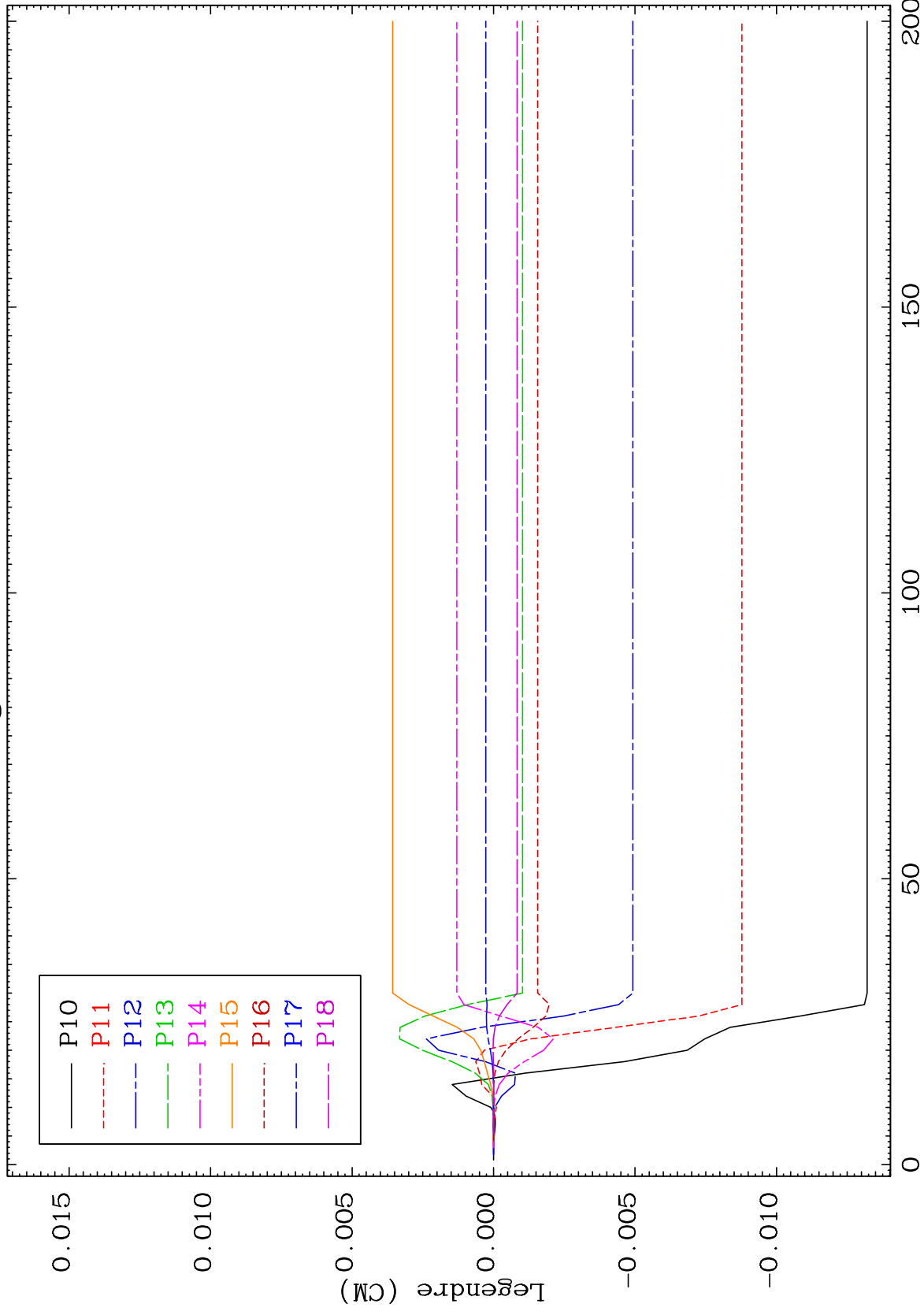
Incident Energy (MeV)

64-Gd-157

MAT 6440

612.4 keV (n,n') Level
Legendre Coefficients

64-Gd-157



89

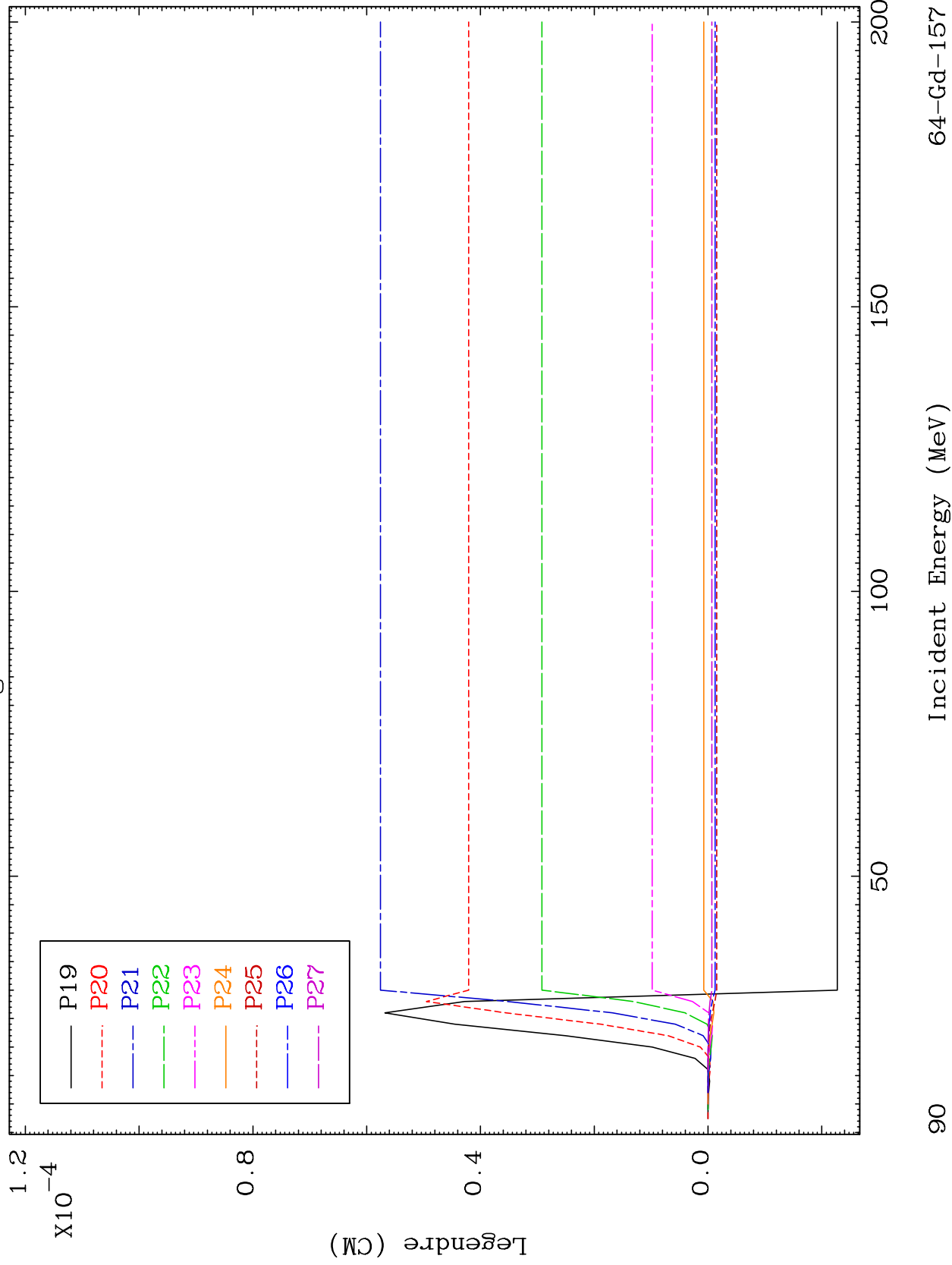
Incident Energy (MeV)

64-Gd-157

MAT 6440

612.4 keV (n,n') Level
Legendre Coefficients

64-Gd-157



90

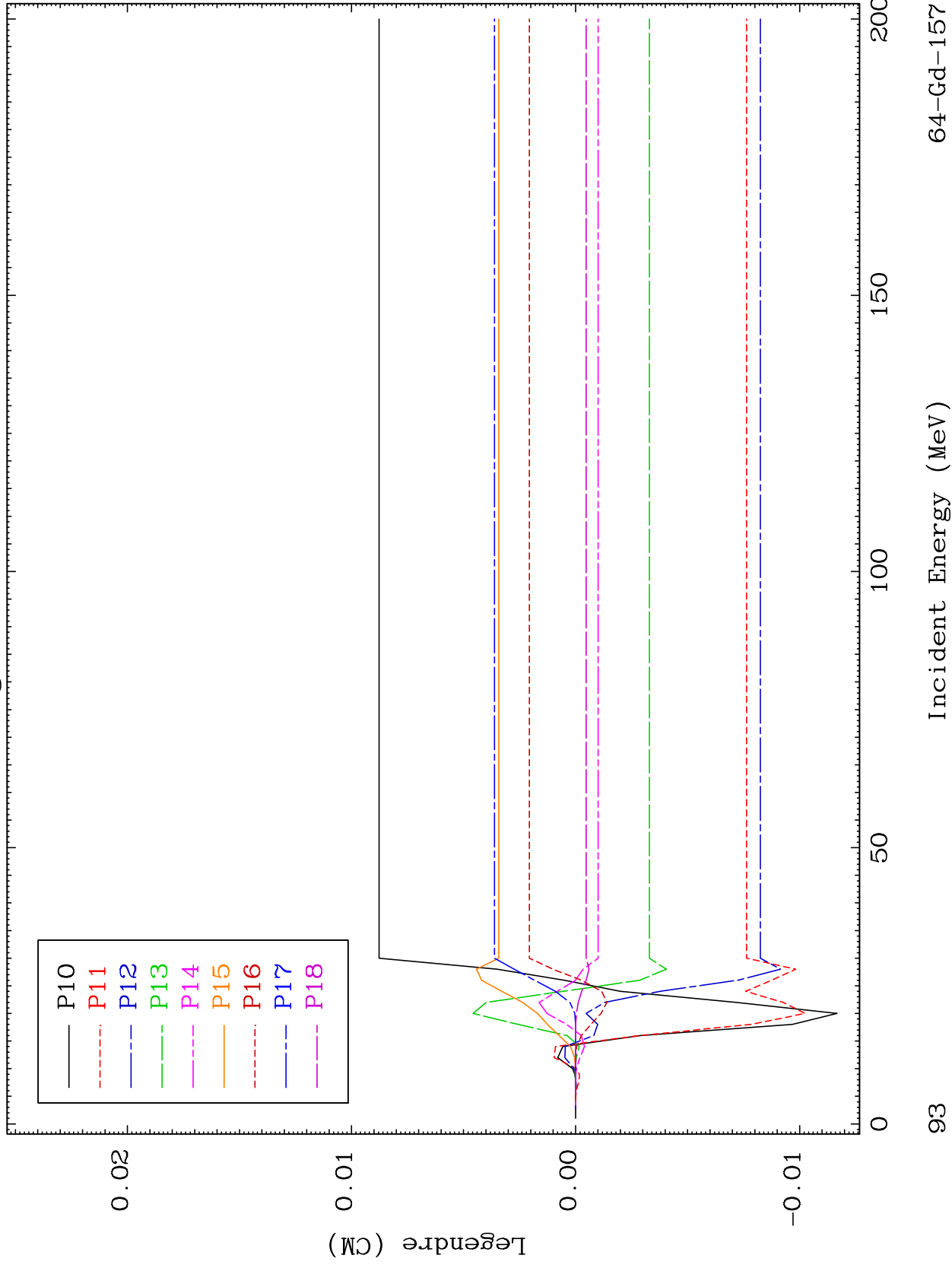
Incident Energy (MeV)

64-Gd-157

MAT 6440

617.5 keV (n,n') Level
Legendre Coefficients

64-Gd-157



93

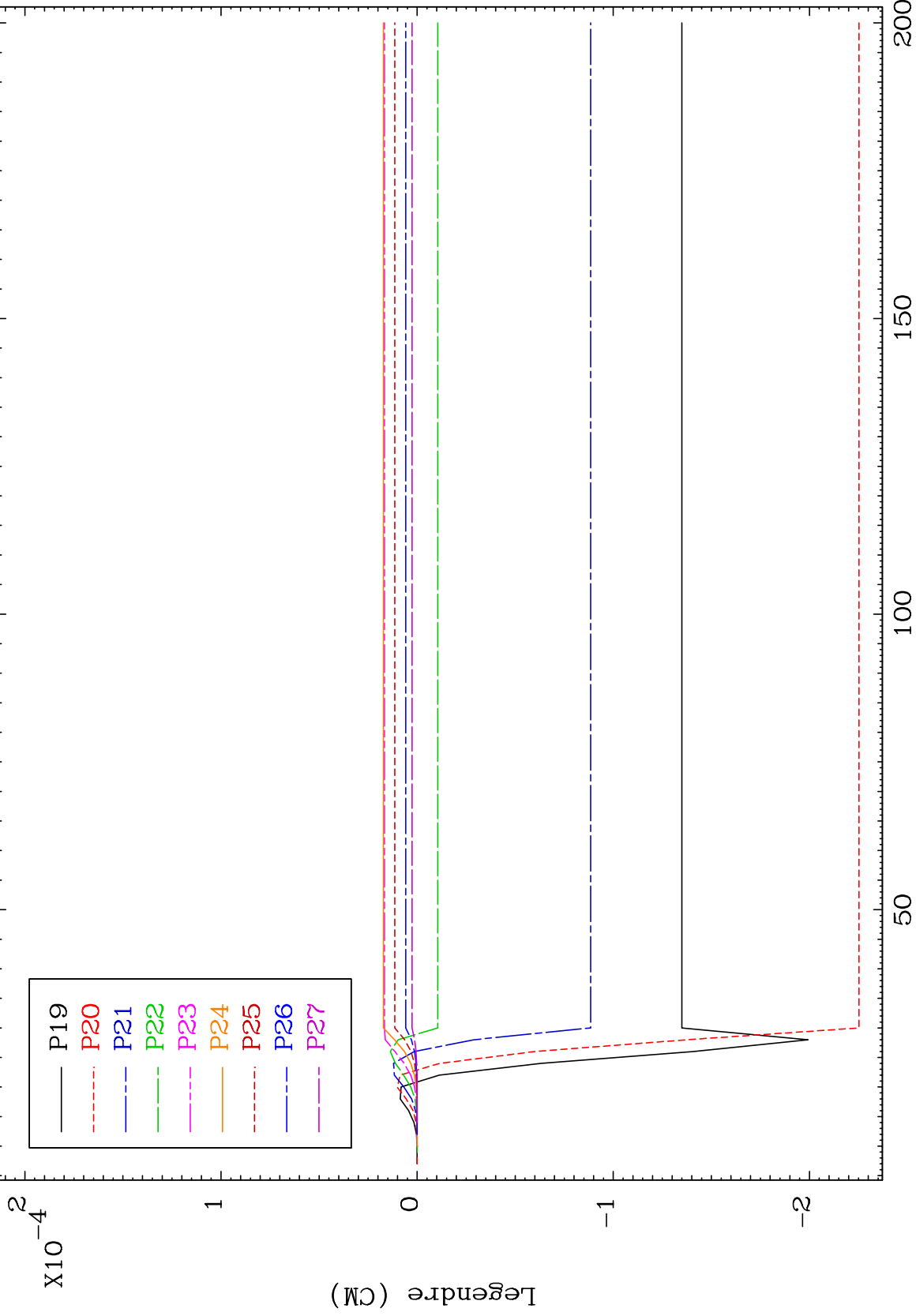
Incident Energy (MeV)

64-Gd-157

MAT 6440

617.5 keV (n,n') Level
Legendre Coefficients

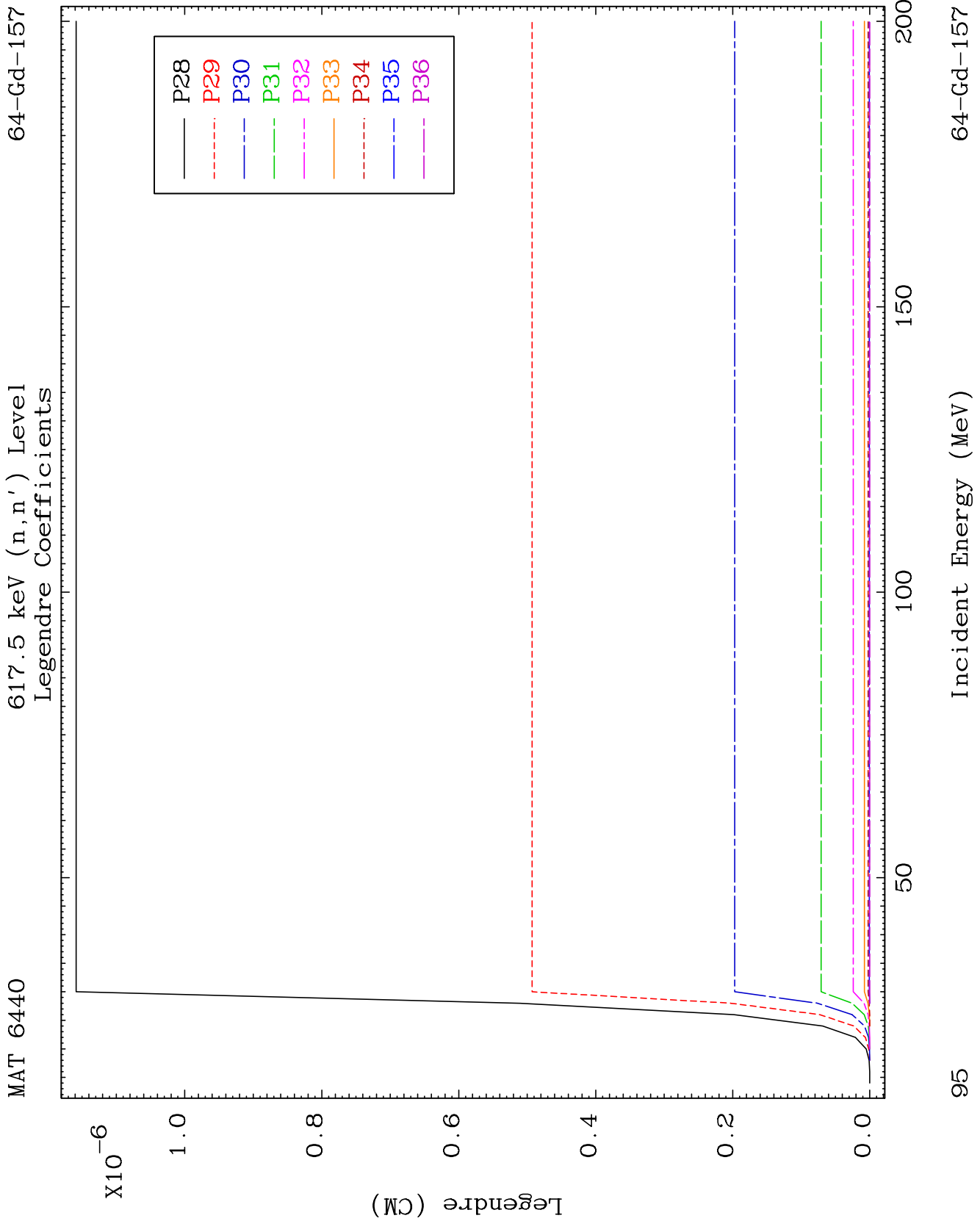
64-Gd-157

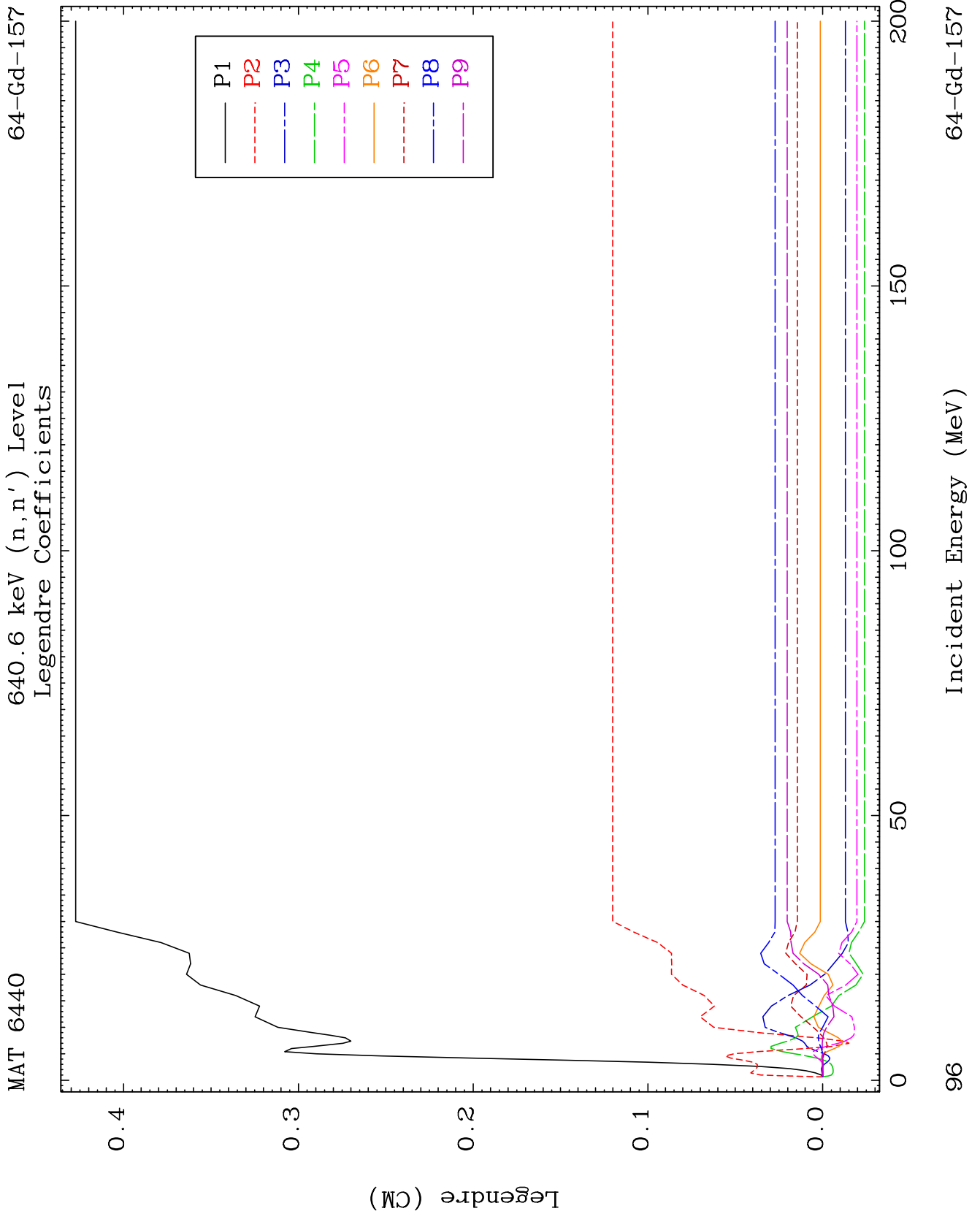


94

Incident Energy (MeV)

64-Gd-157

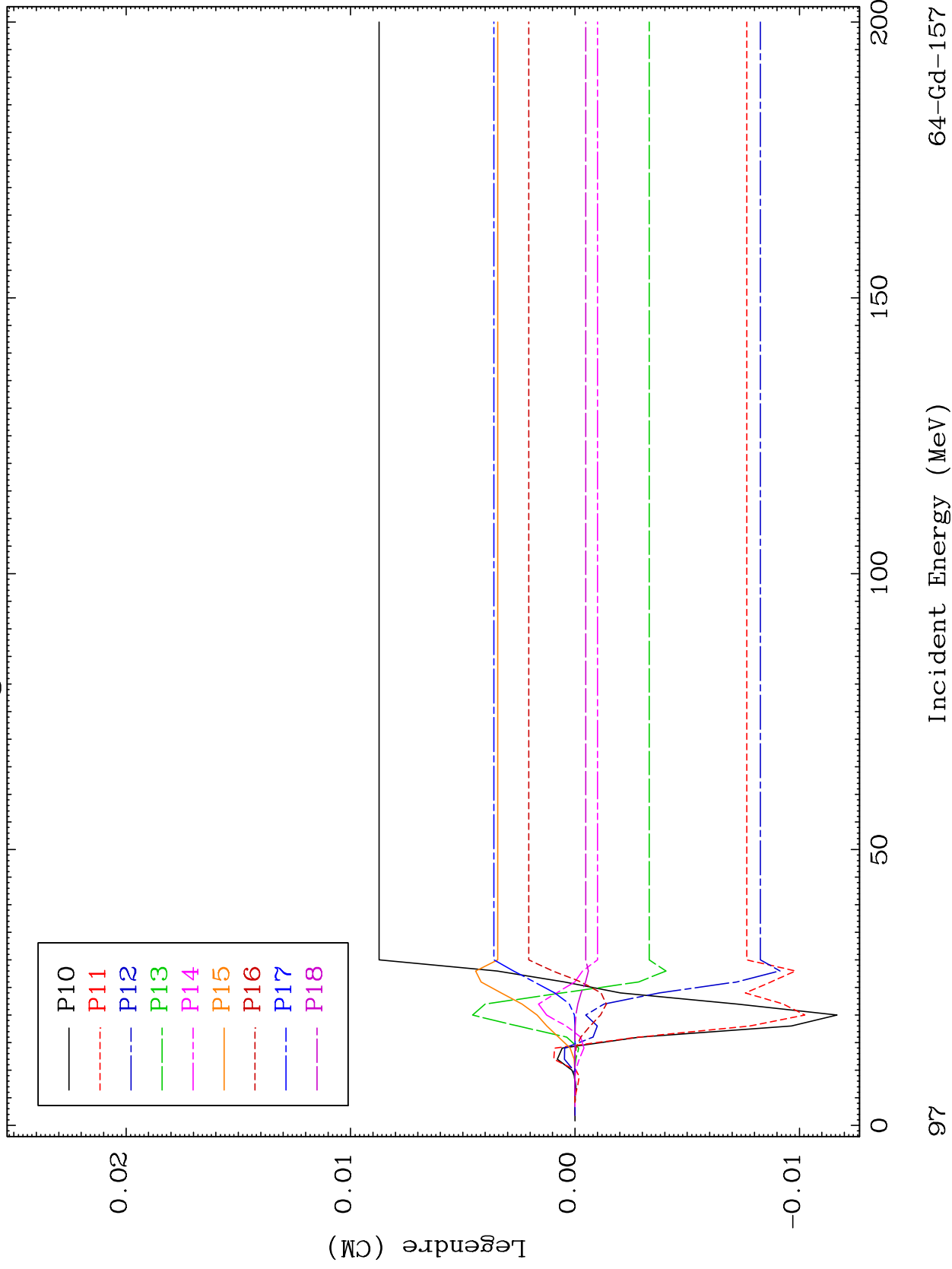




MAT 6440

640.6 keV (n,n') Level
Legendre Coefficients

64-Gd-157



97

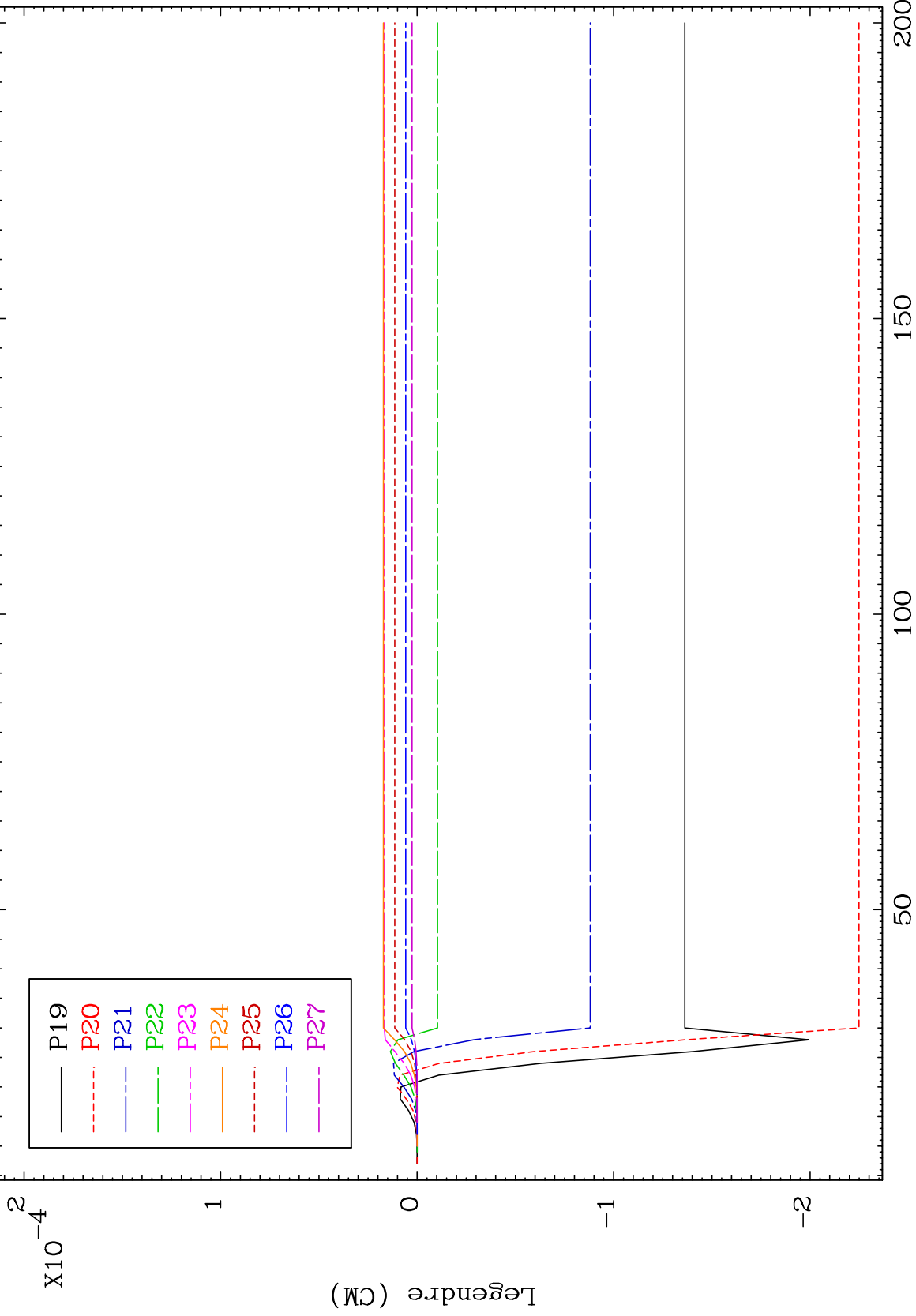
Incident Energy (MeV)

64-Gd-157

MAT 6440

640.6 keV (n,n') Level
Legendre Coefficients

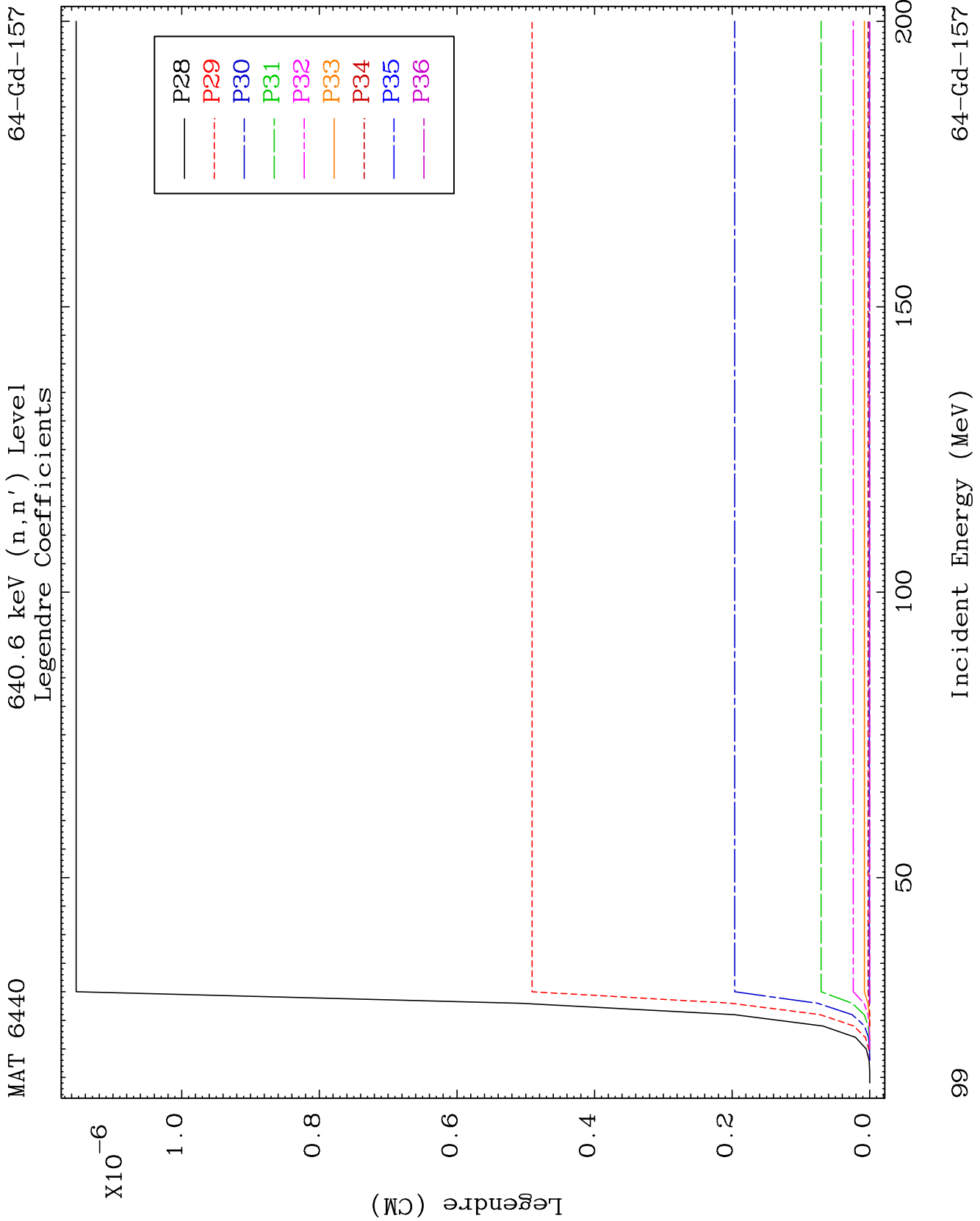
64-Gd-157

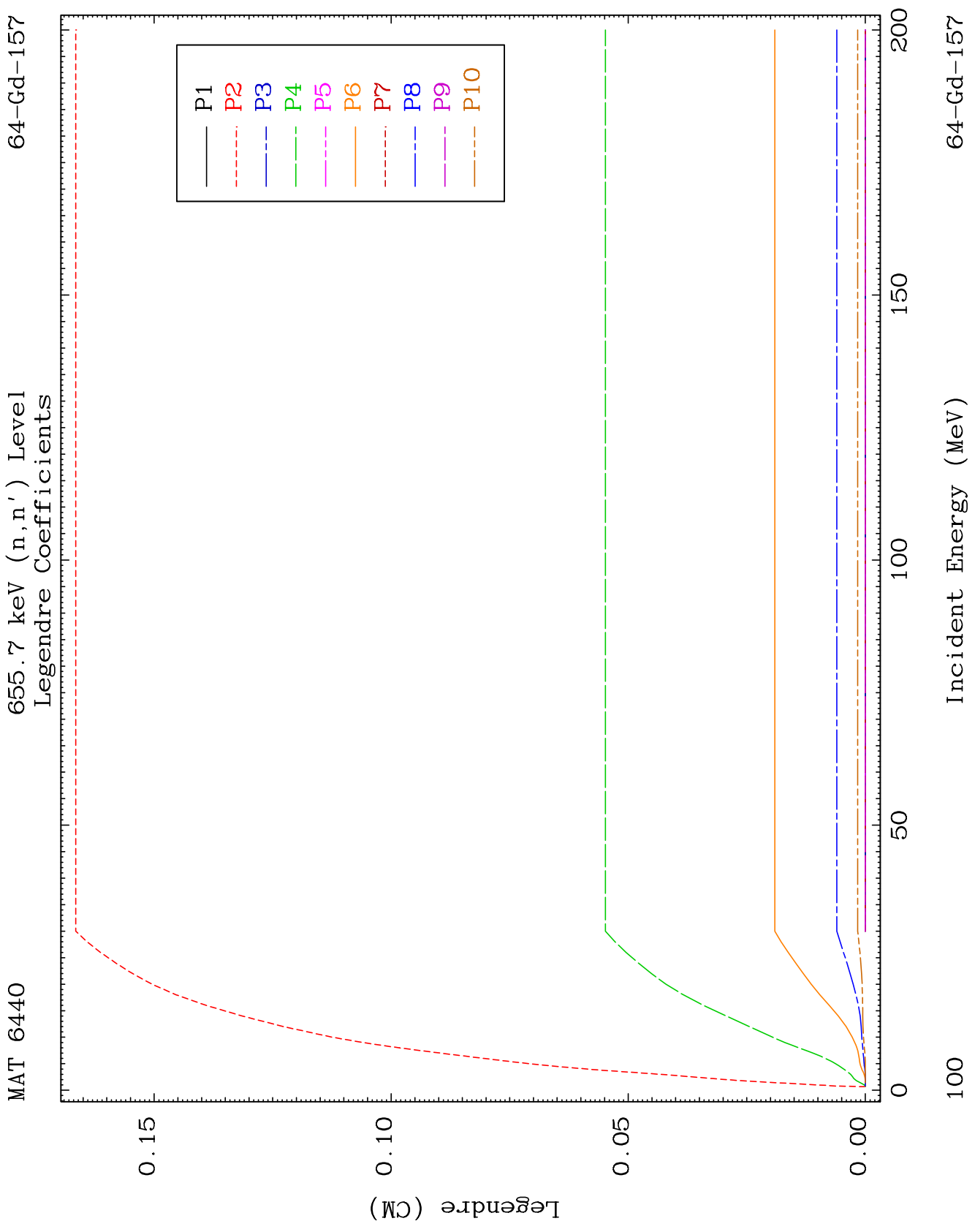


98

Incident Energy (MeV)

64-Gd-157

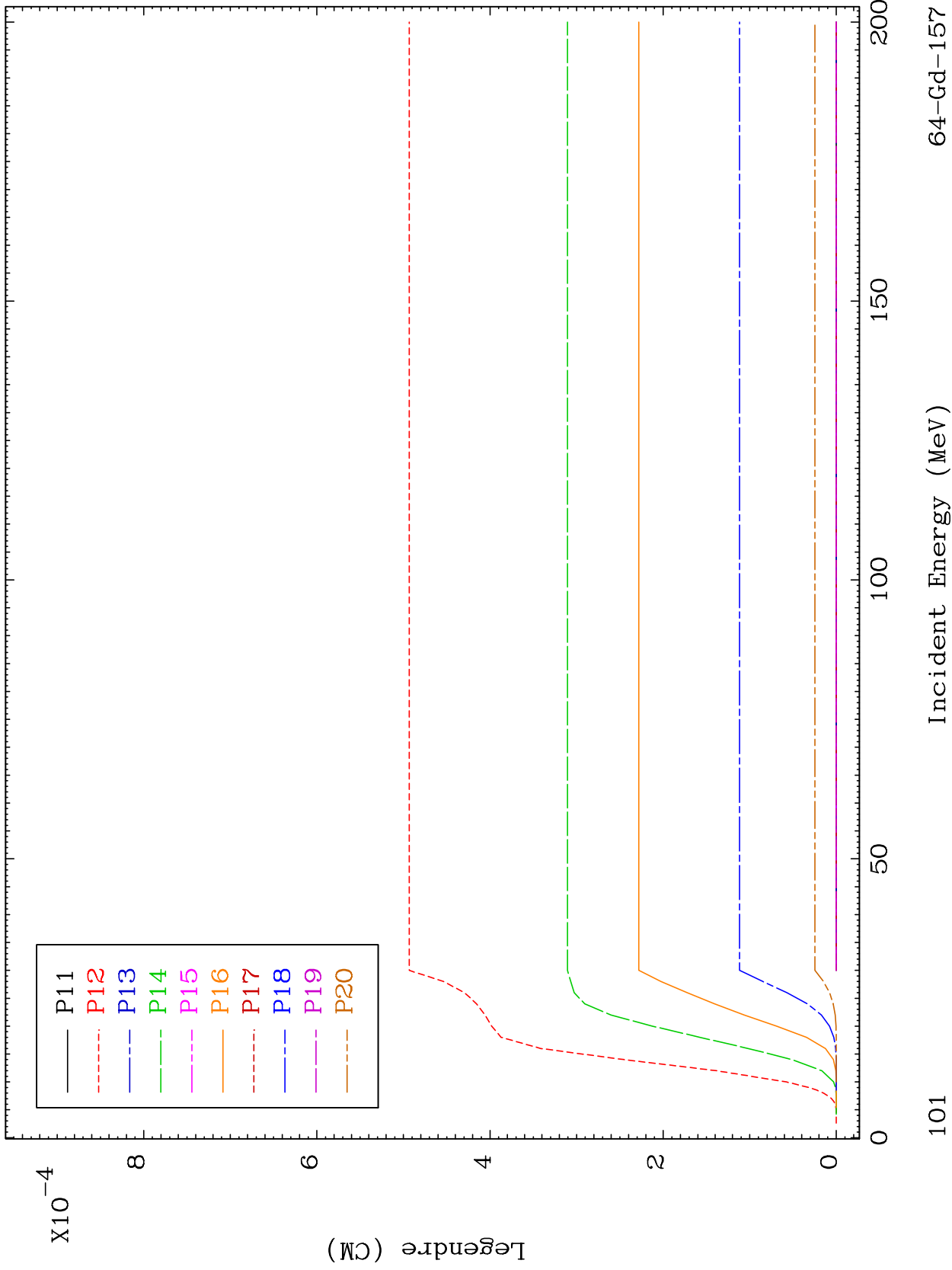




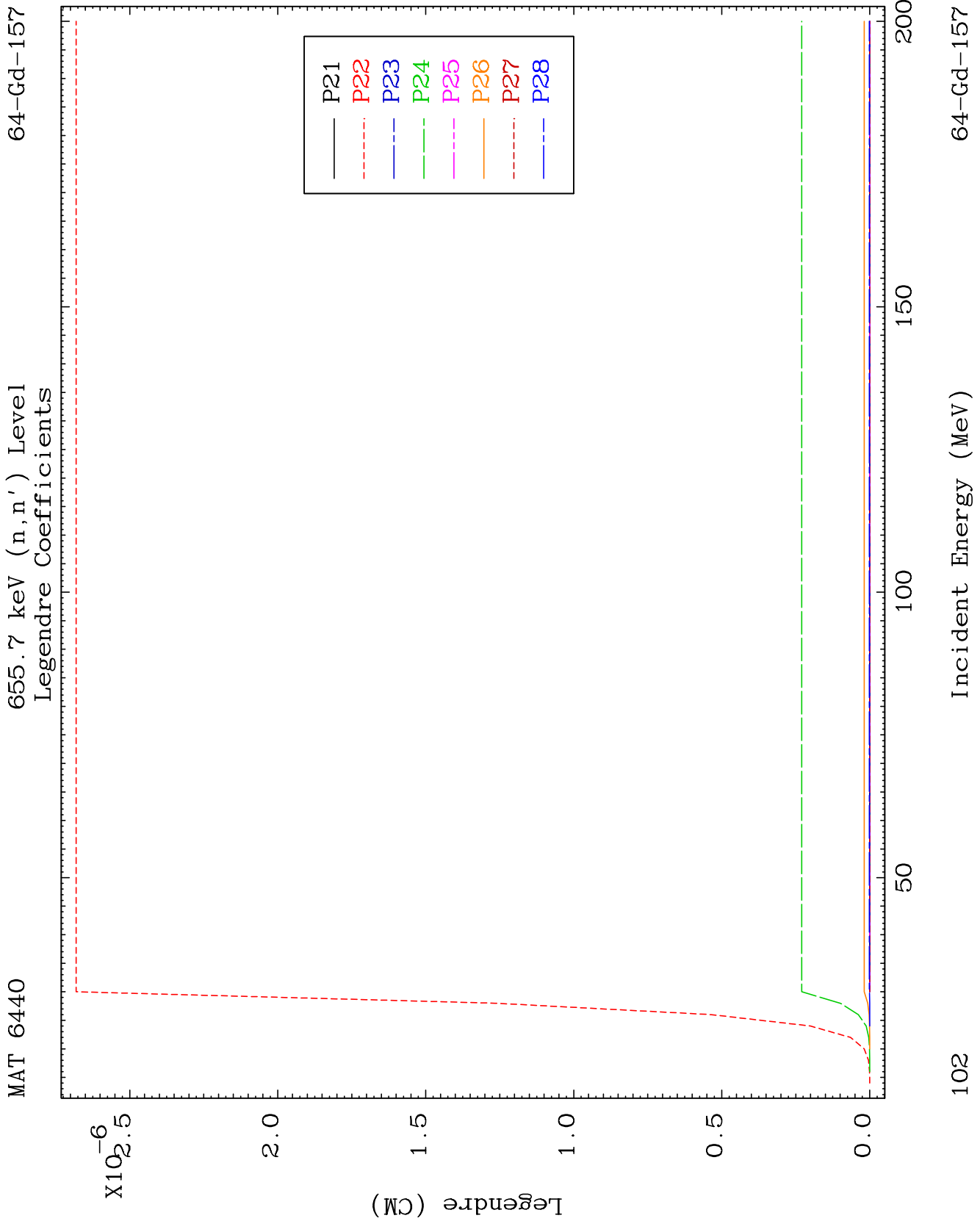
MAT 6440

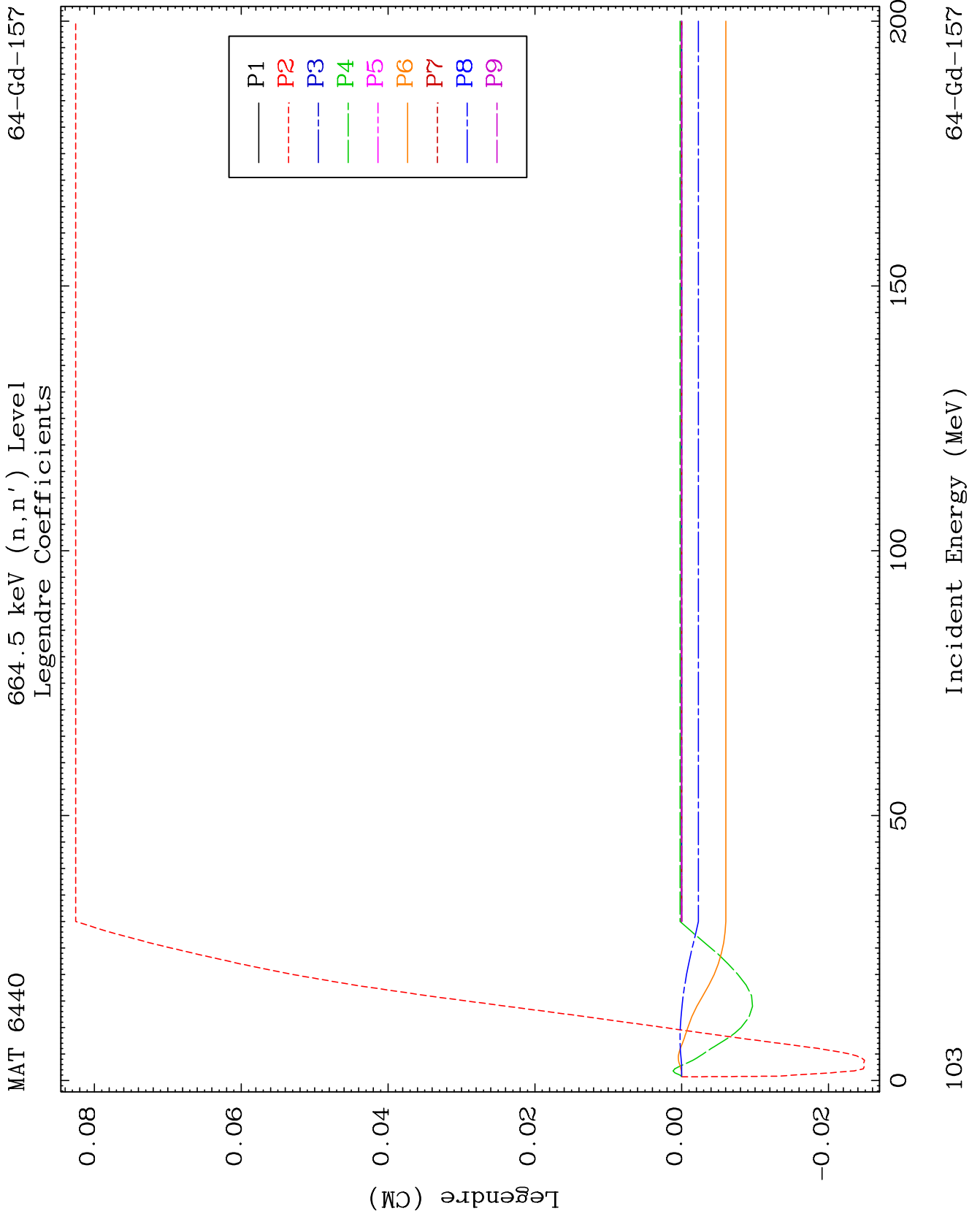
655.7 keV (n,n') Level
Legendre Coefficients

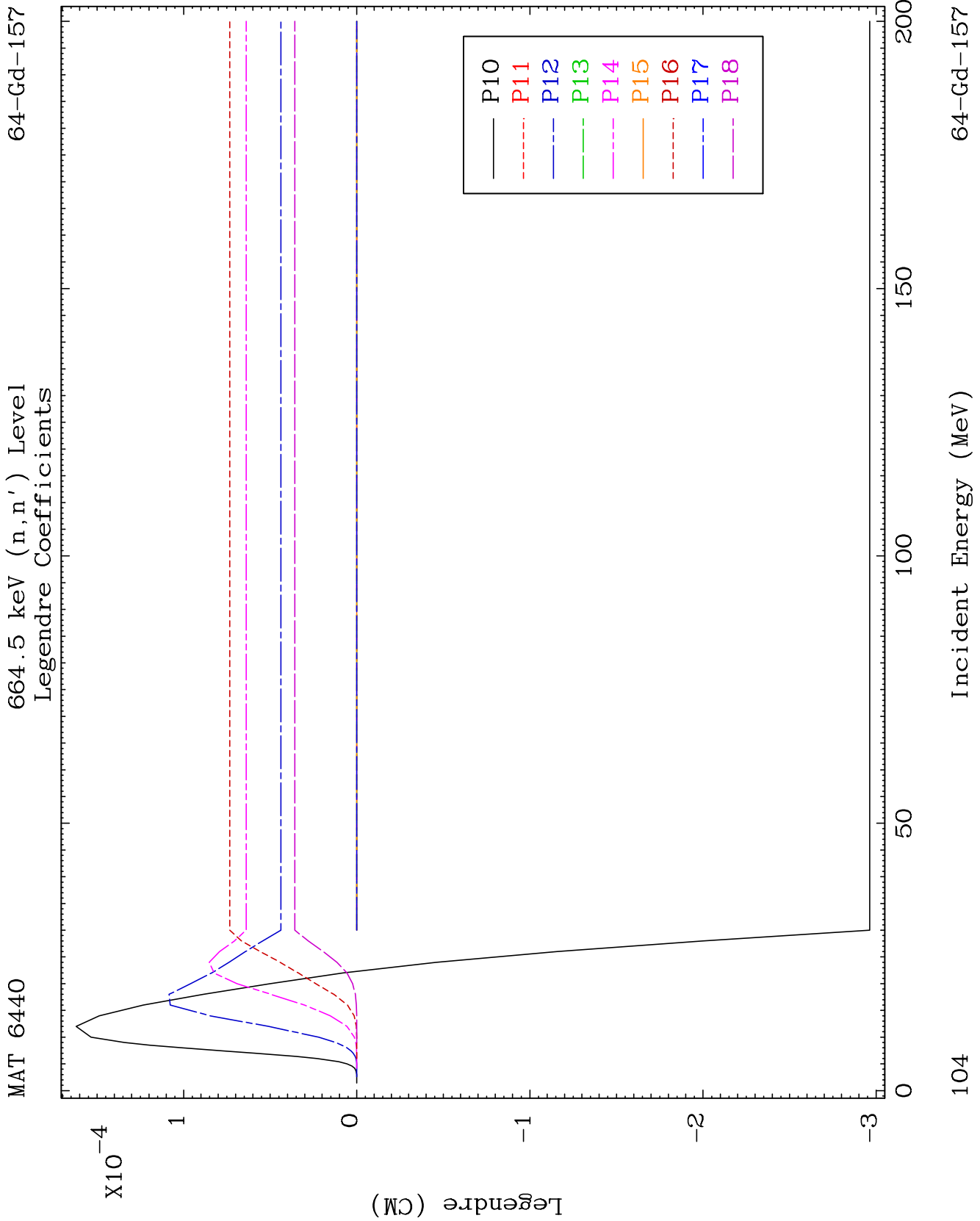
64-Gd-157

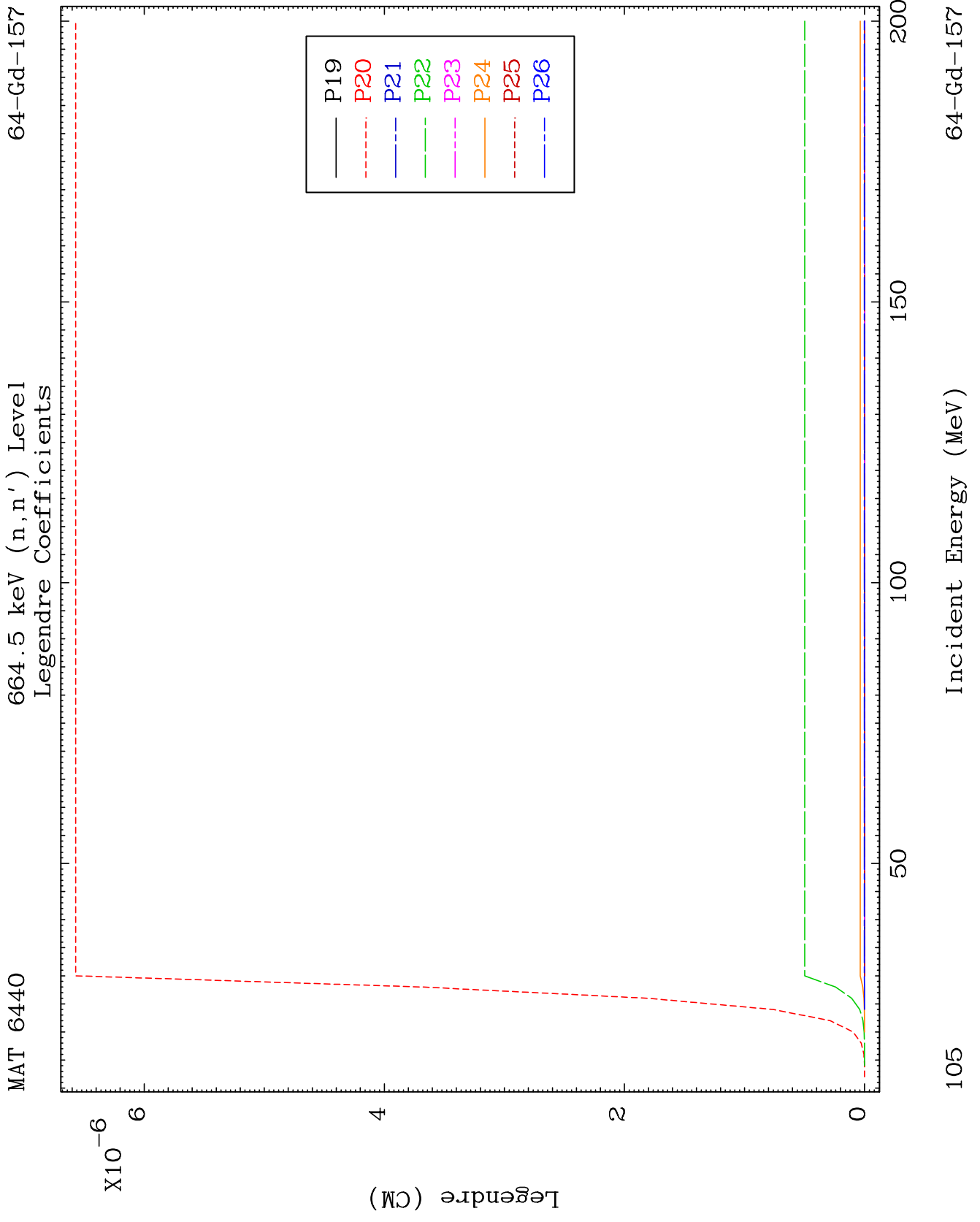


101





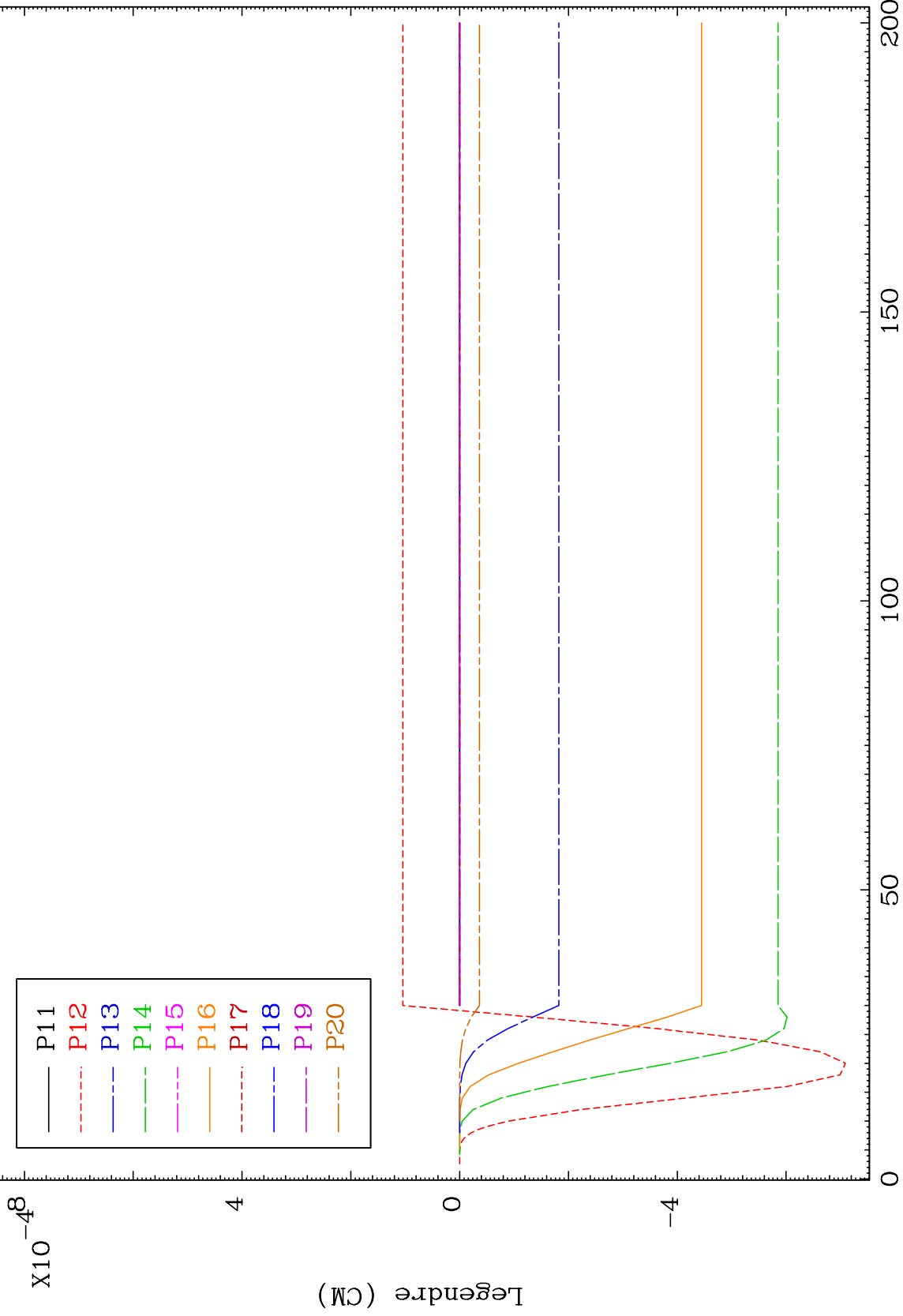




MAT 6440

682.9 keV (n,n') Level
Legendre Coefficients

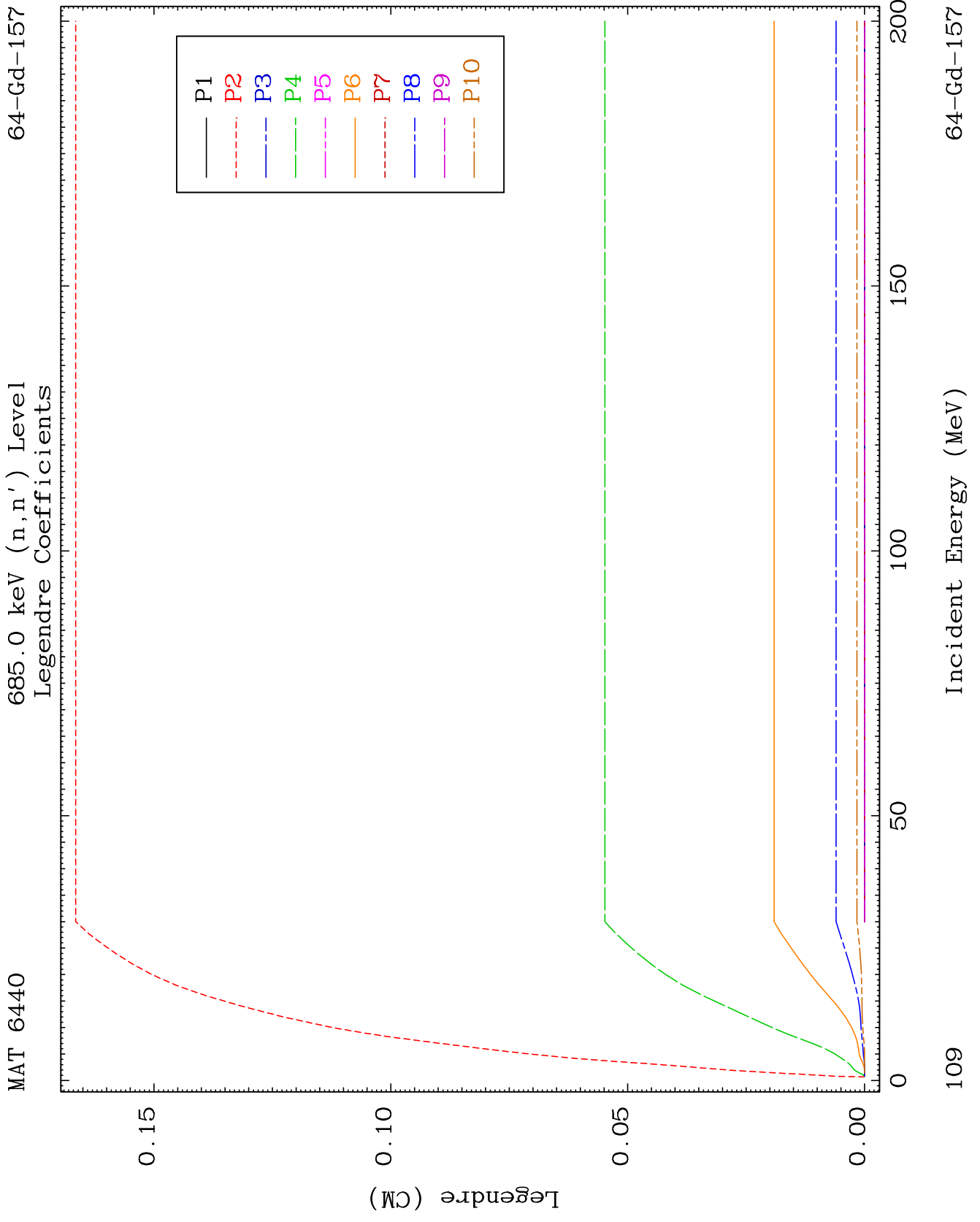
64-Gd-157

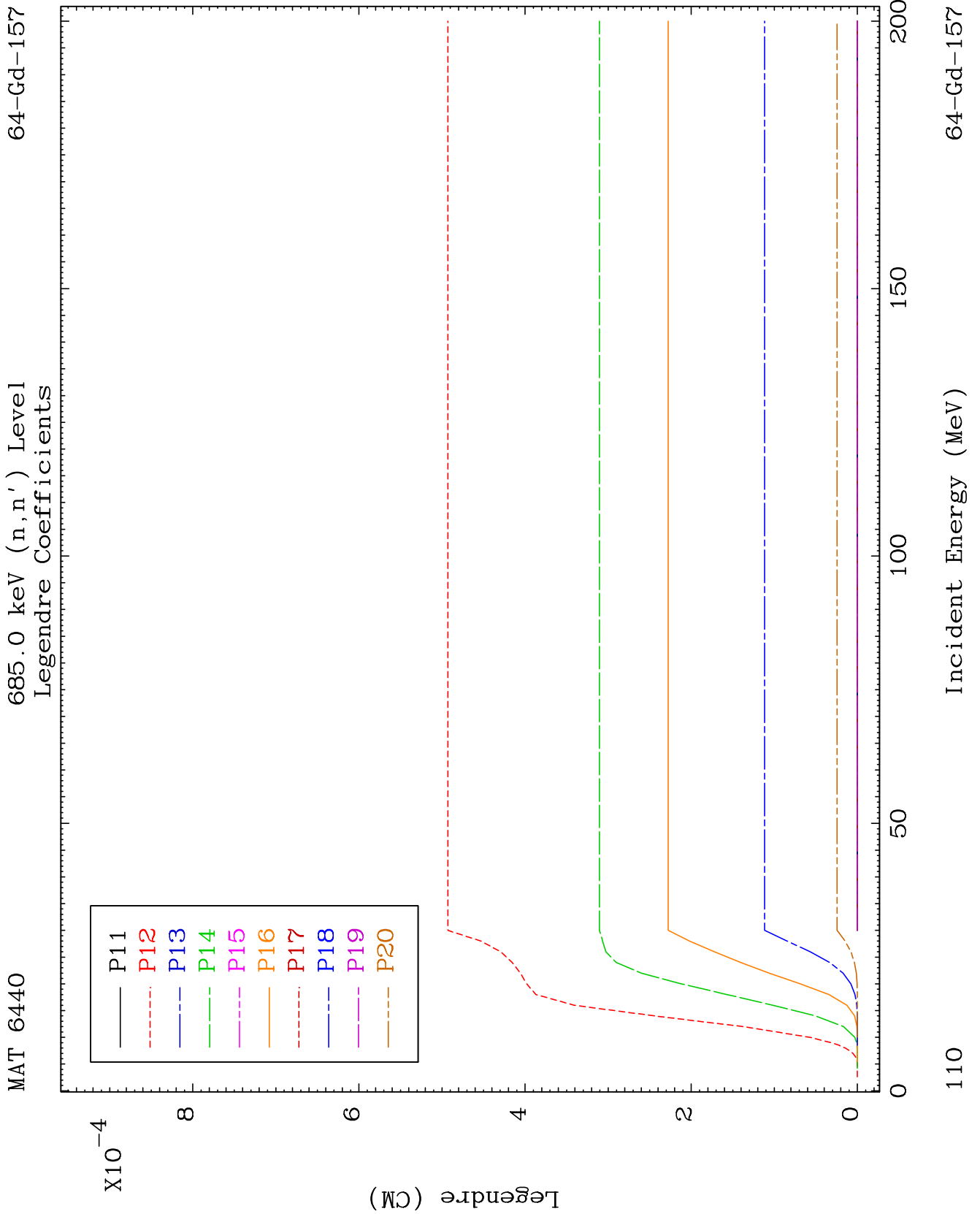


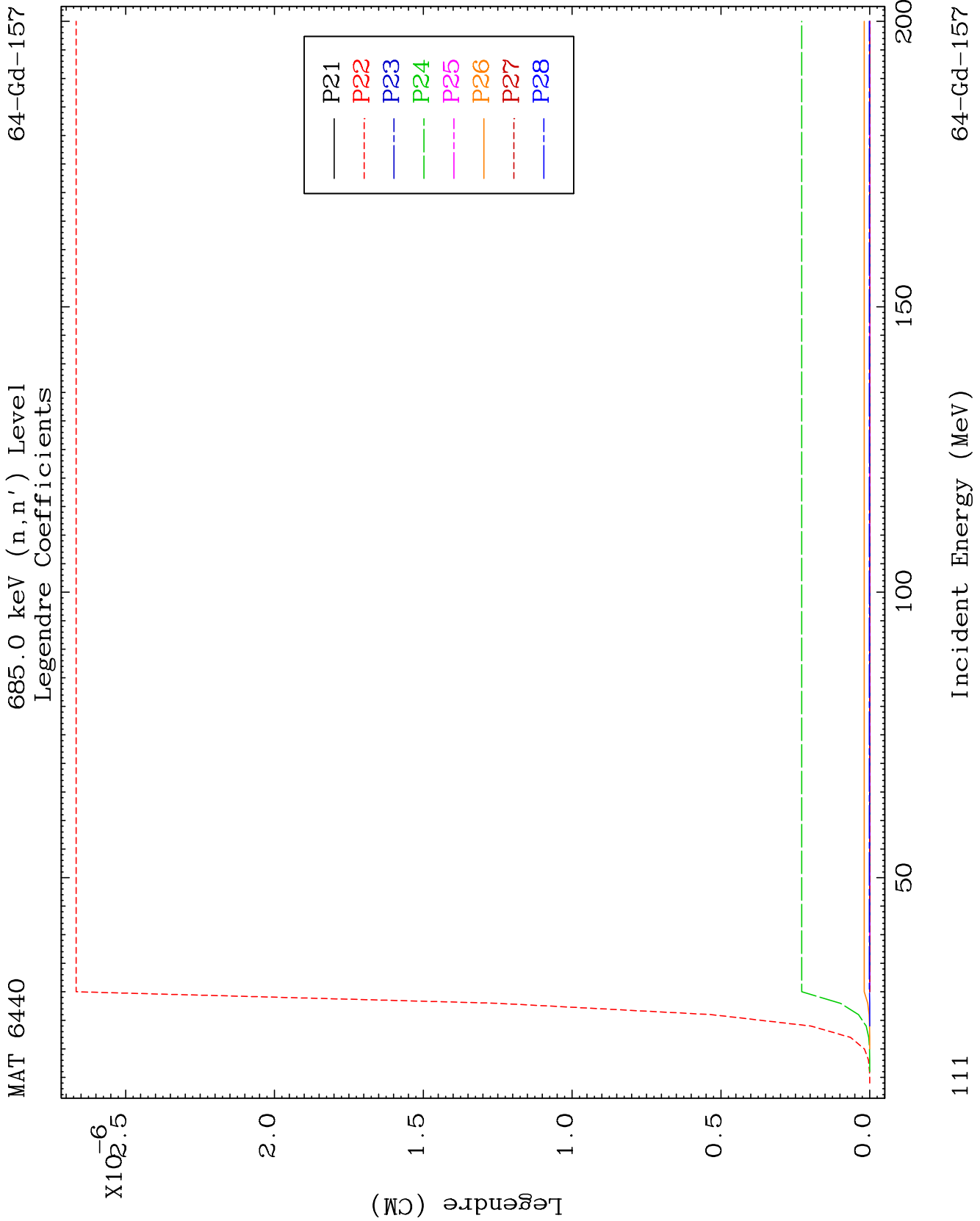
107

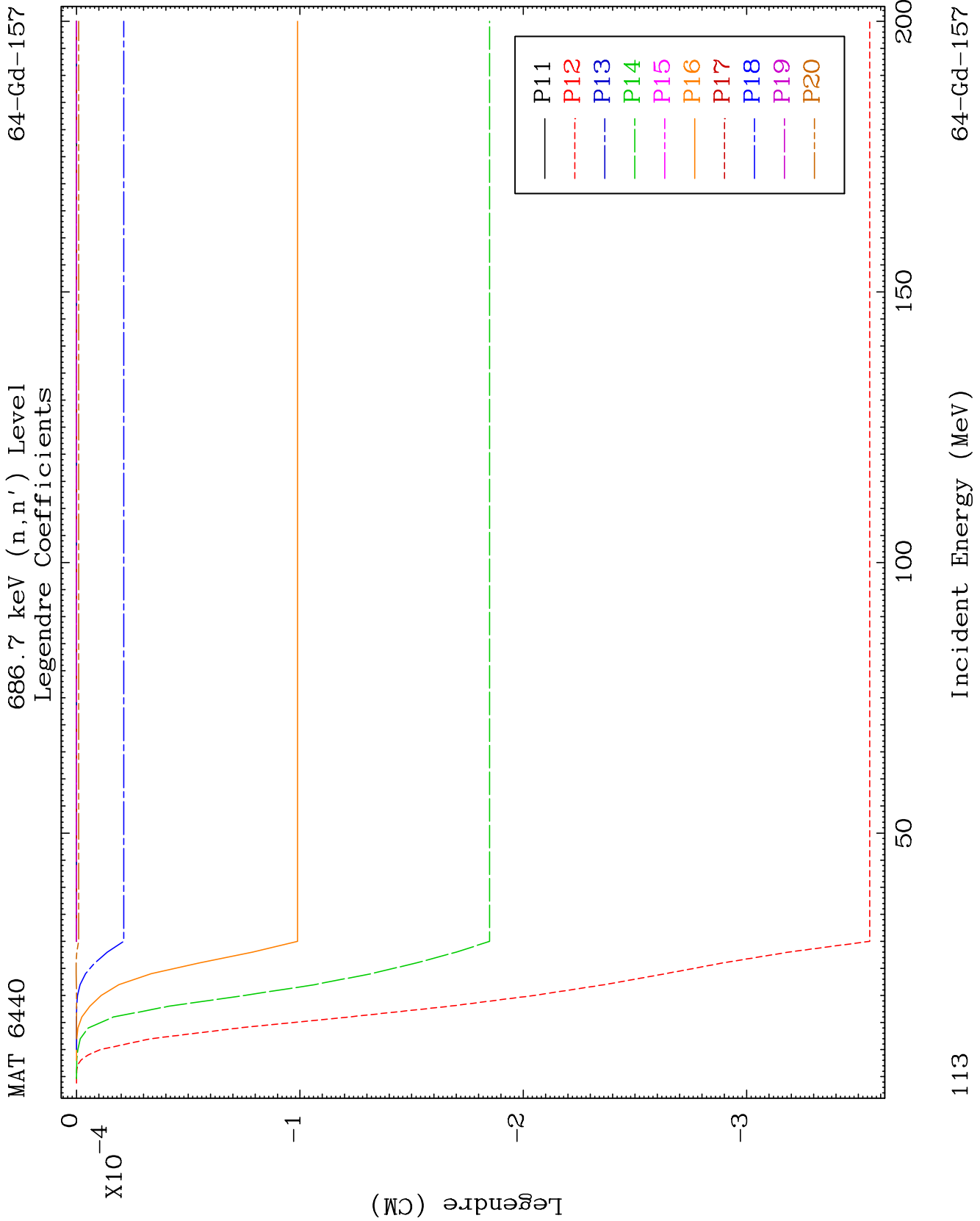
Incident Energy (MeV)

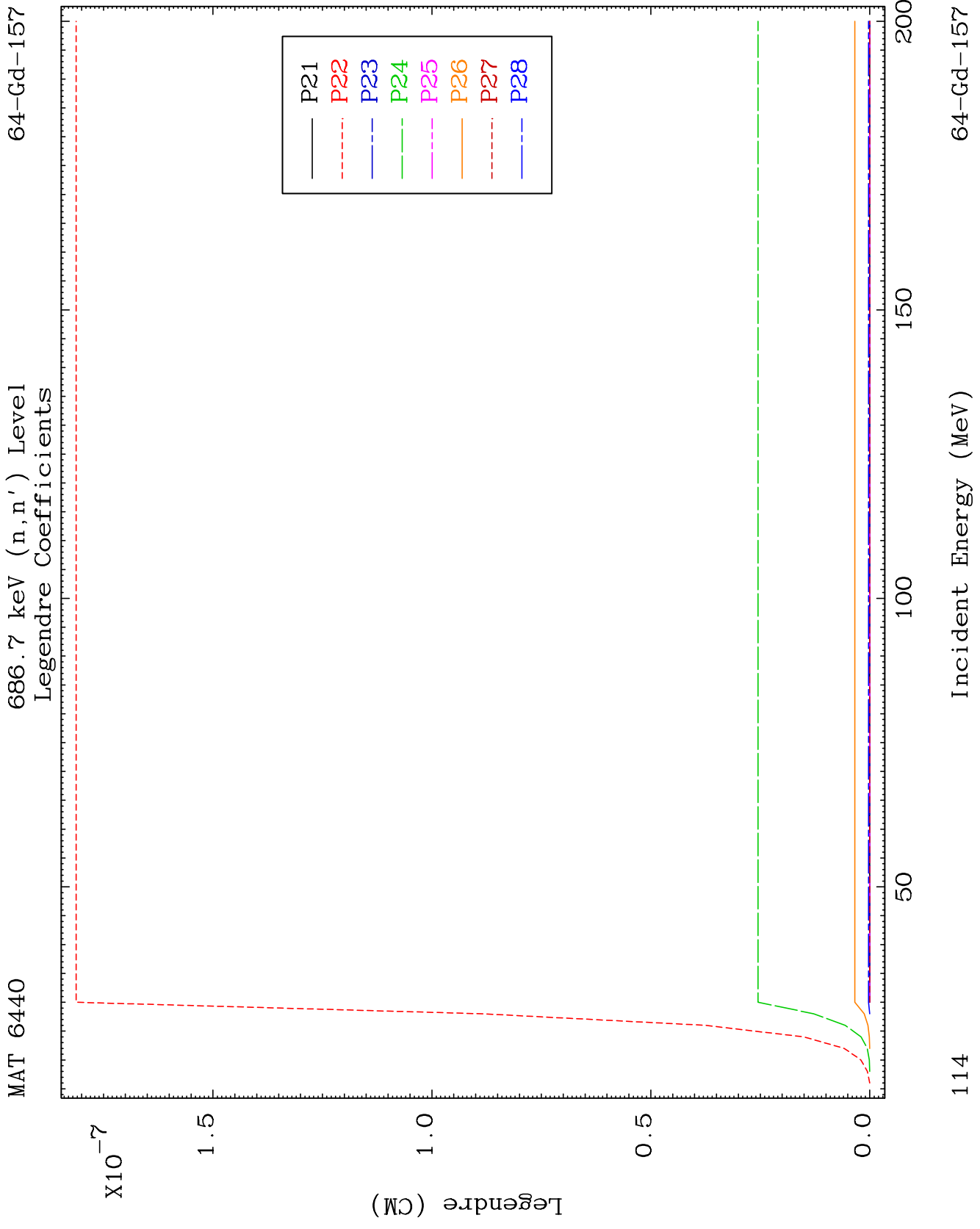
64-Gd-157

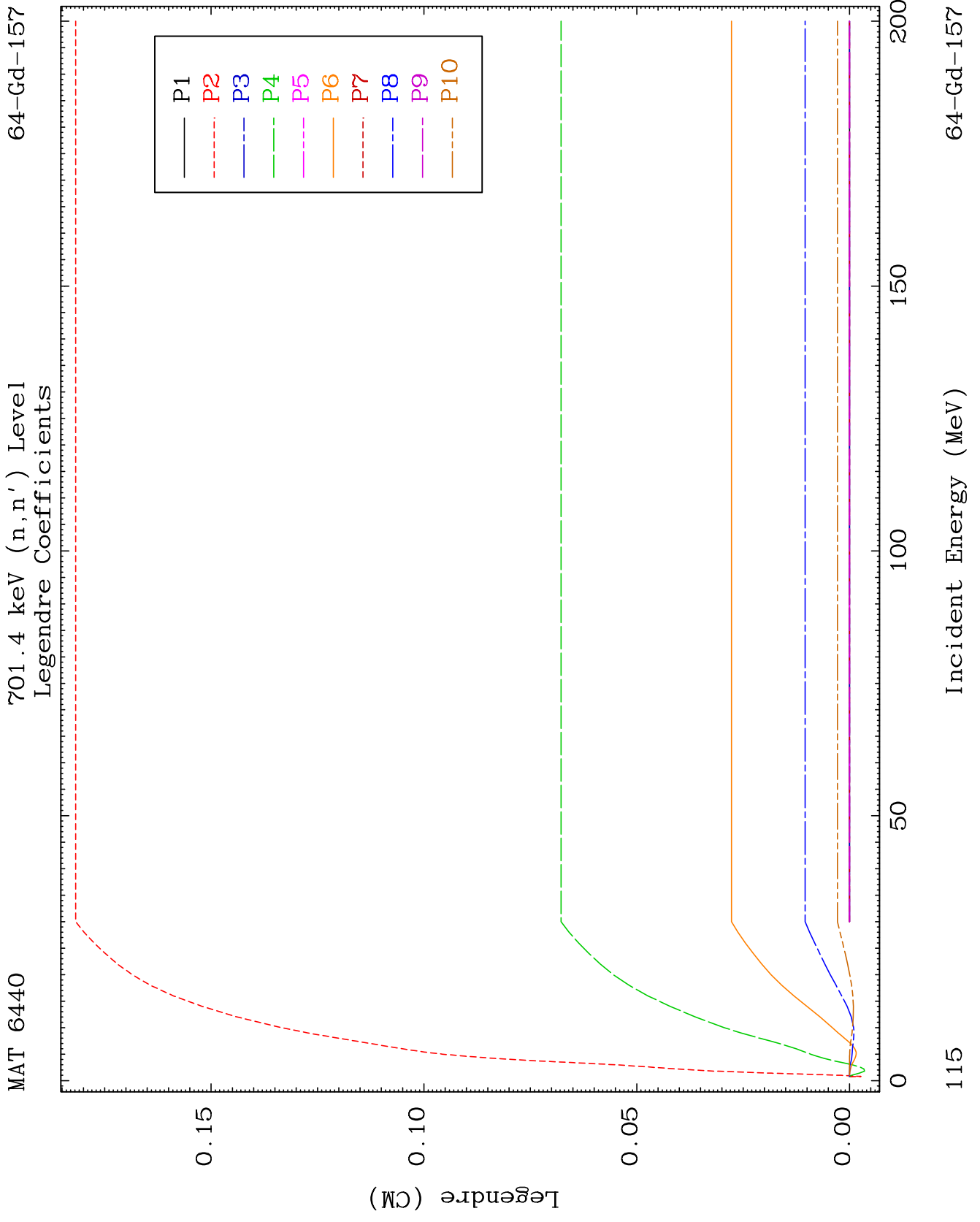








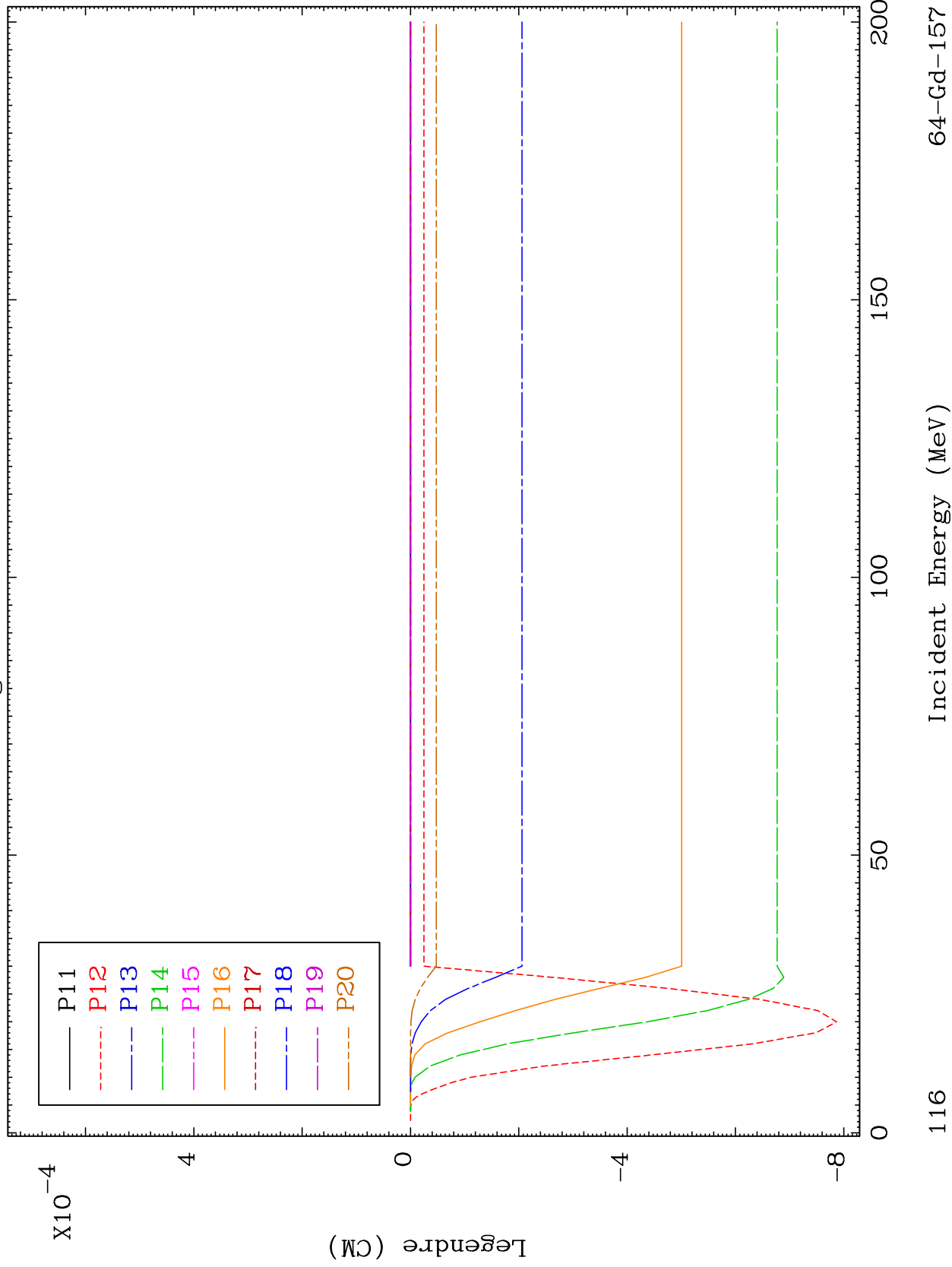




MAT 6440

701.4 keV (n,n') Level
Legendre Coefficients

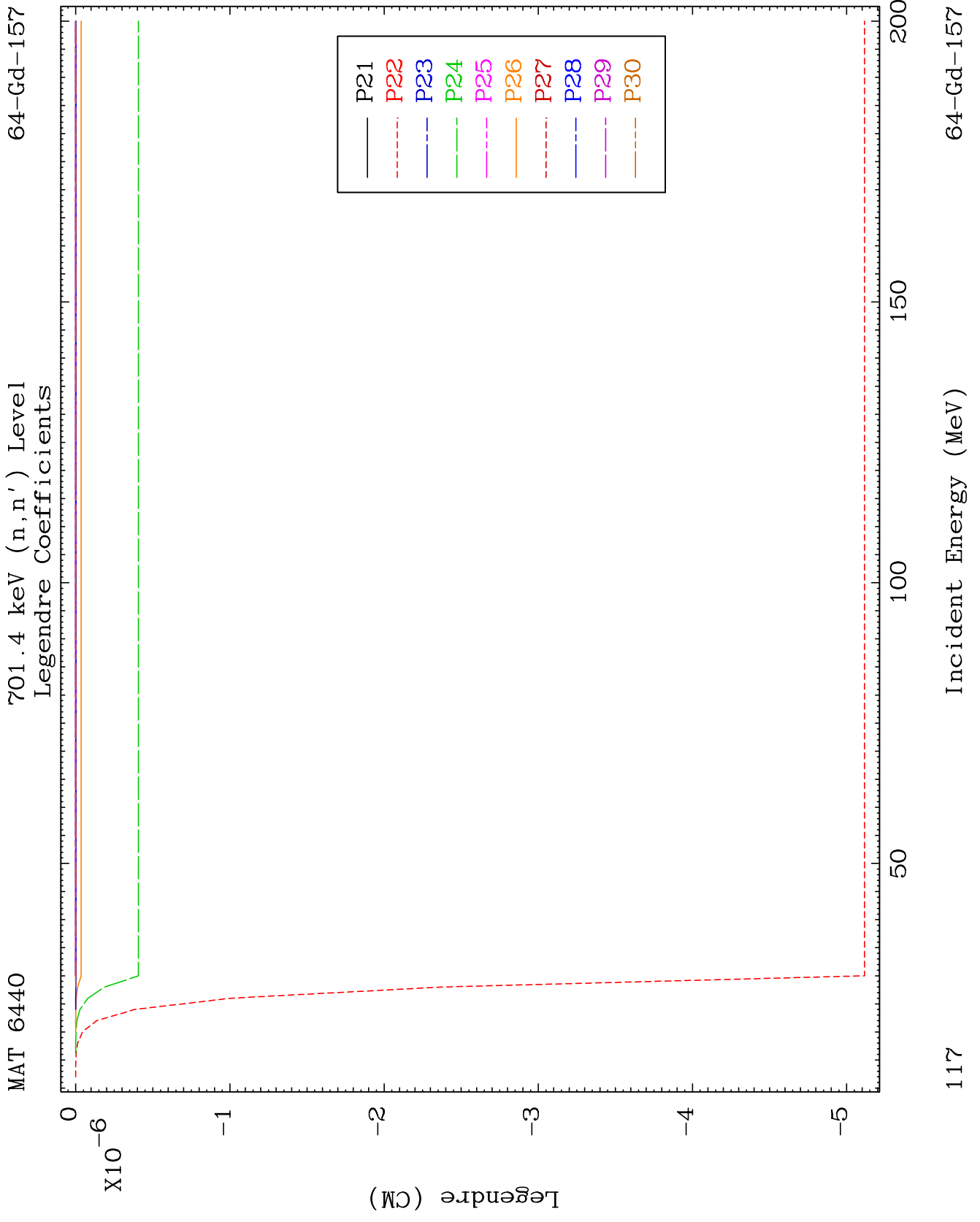
64-Gd-157

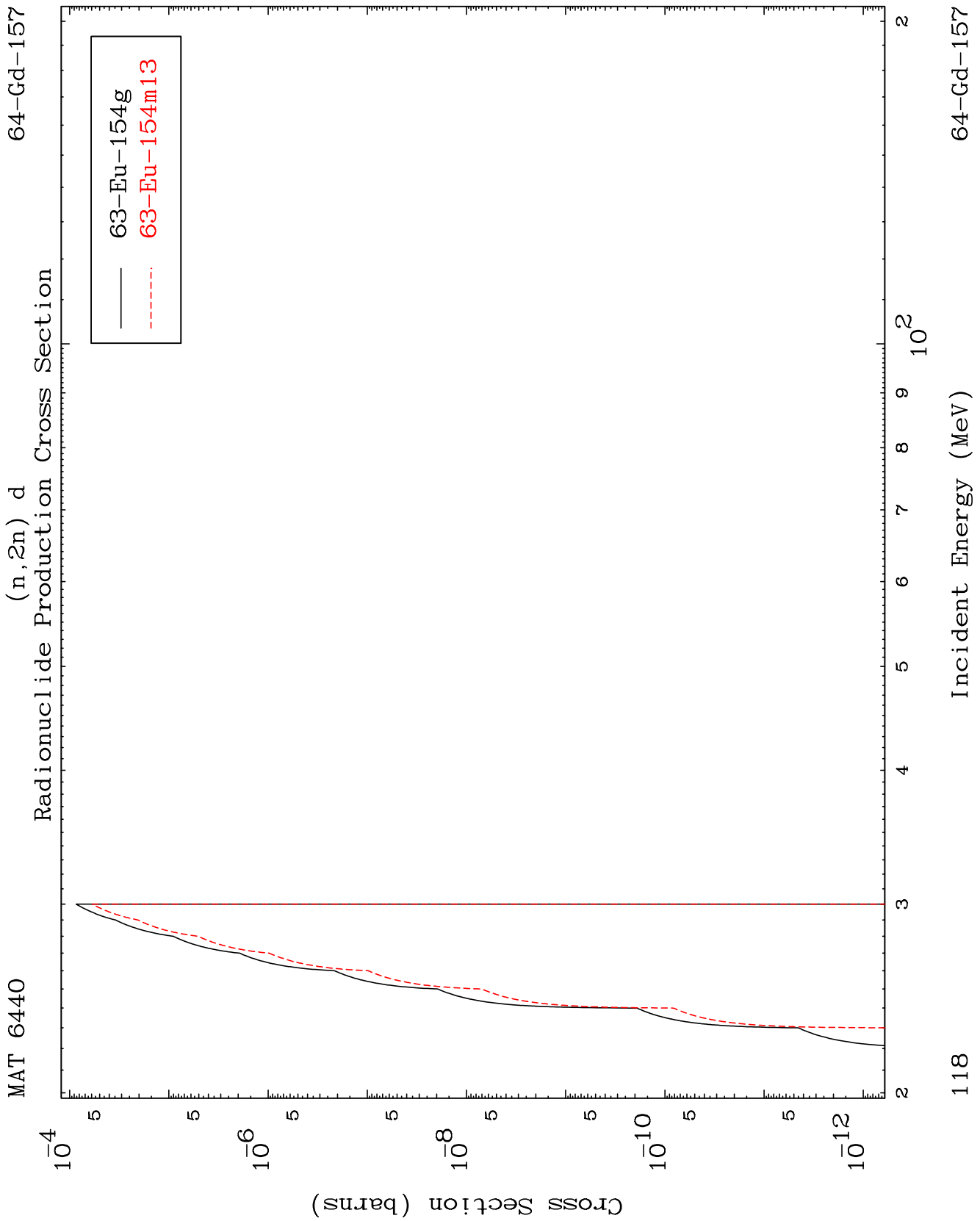


116

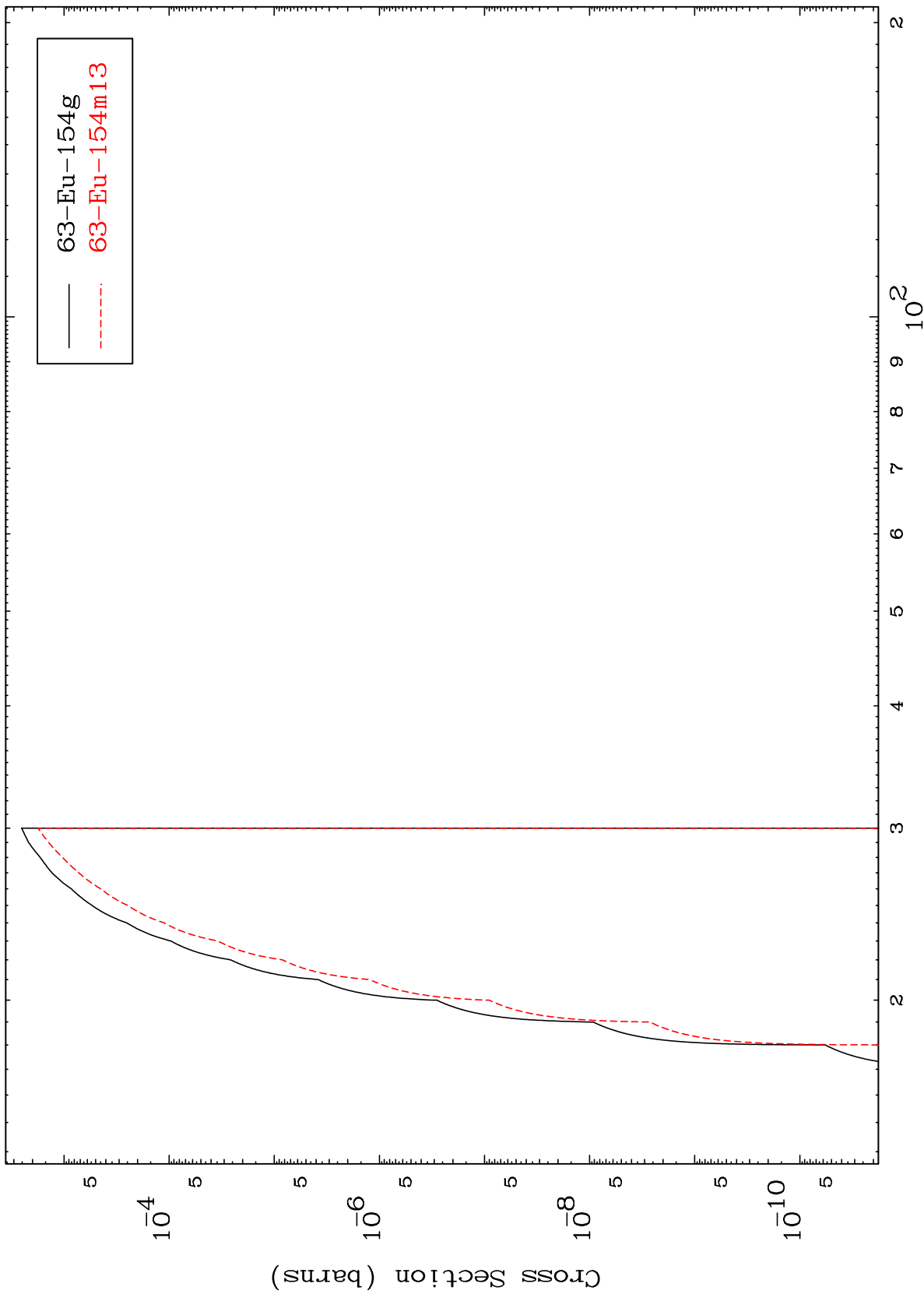
Incident Energy (MeV)

64-Gd-157





Radionuclide Production Cross Section

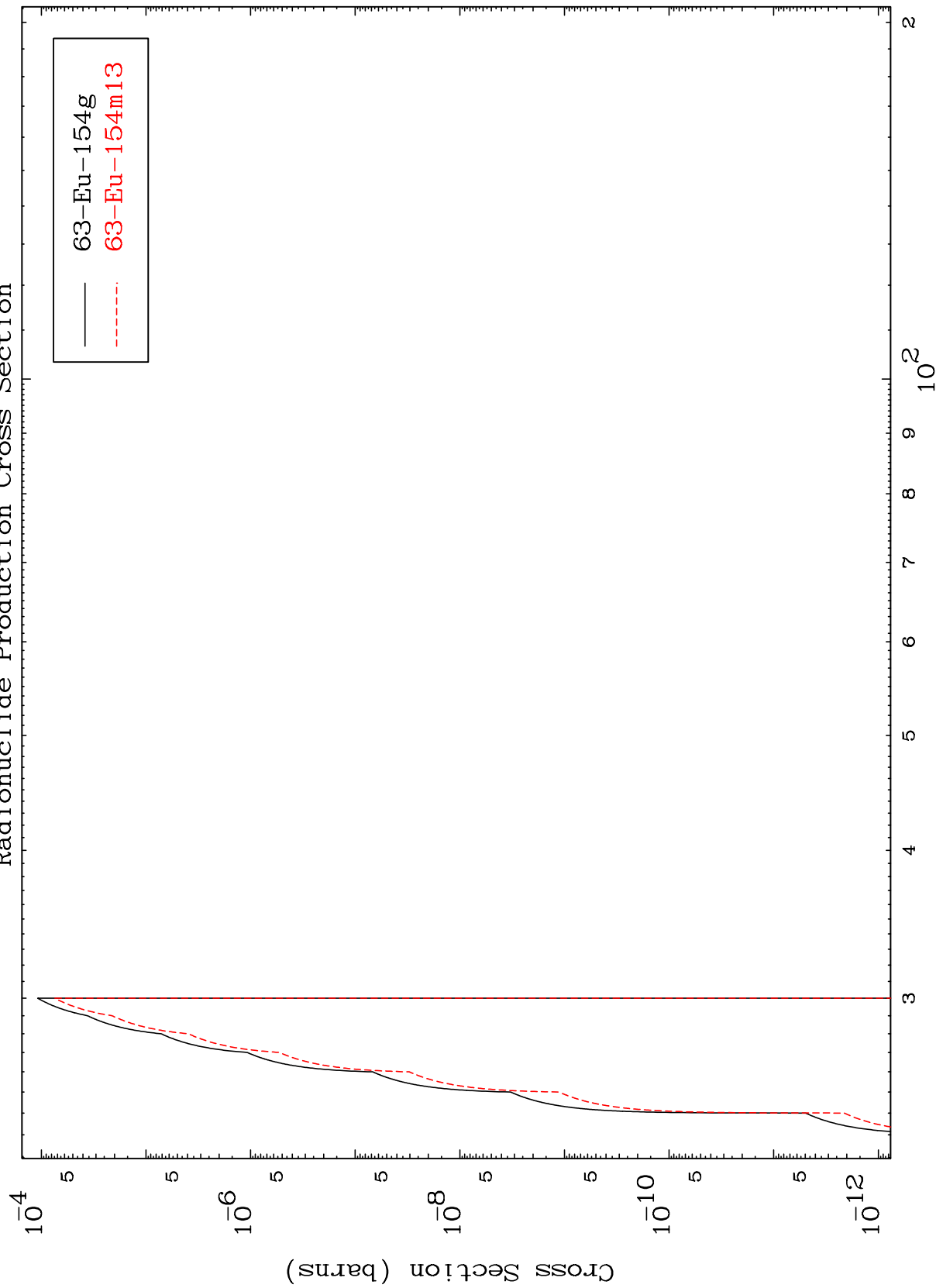


MAT 6440

(n,3n) p

64-Gd-157

Radionuclide Production Cross Section



120

Incident Energy (MeV)

64-Gd-157

MAT 6440

(n,n') p α

64-Gd-157

