

Program EVALPLOT
(Version 2017-1)

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

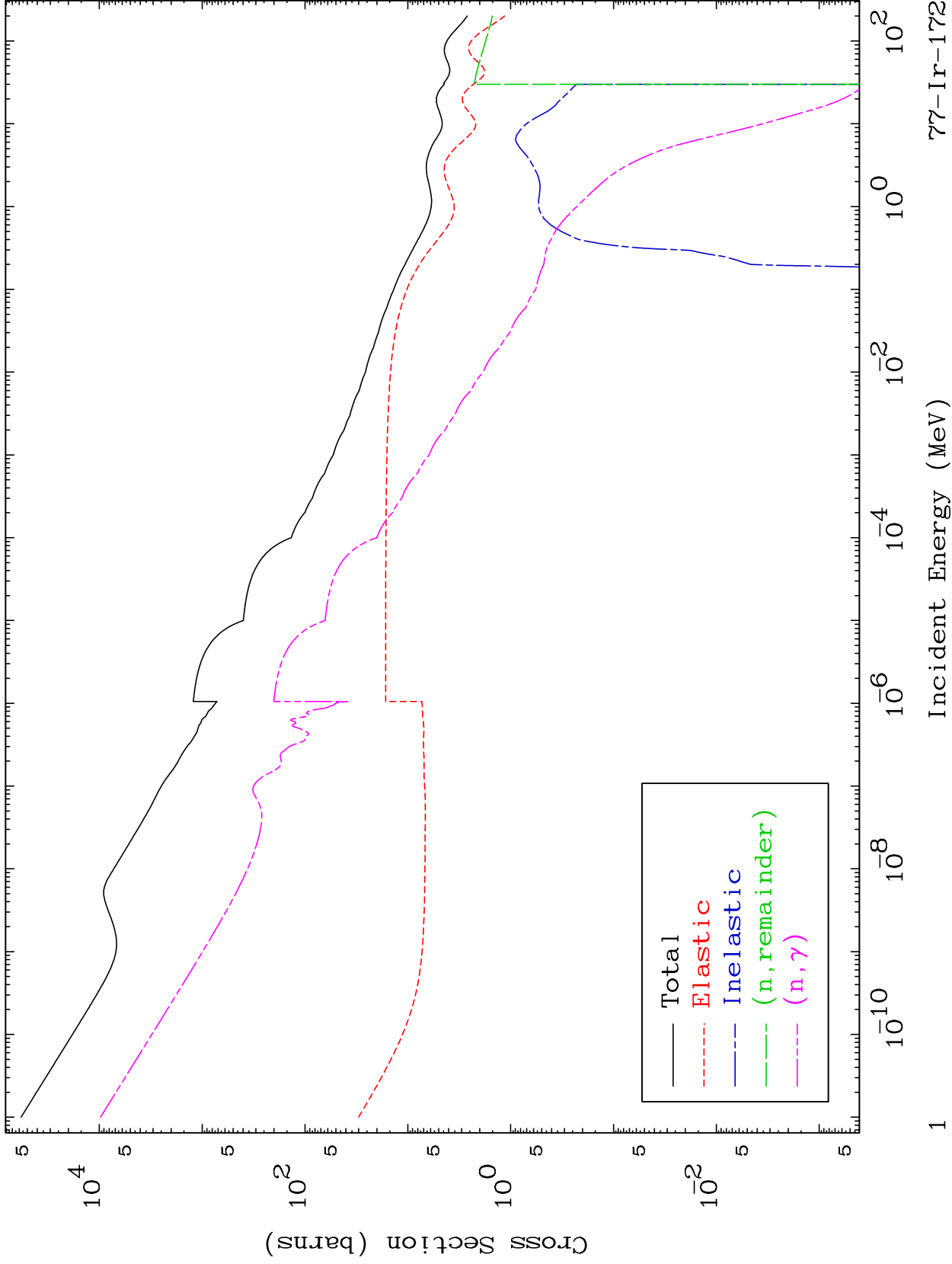
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7668

Major
293 Kelvin Cross Sections

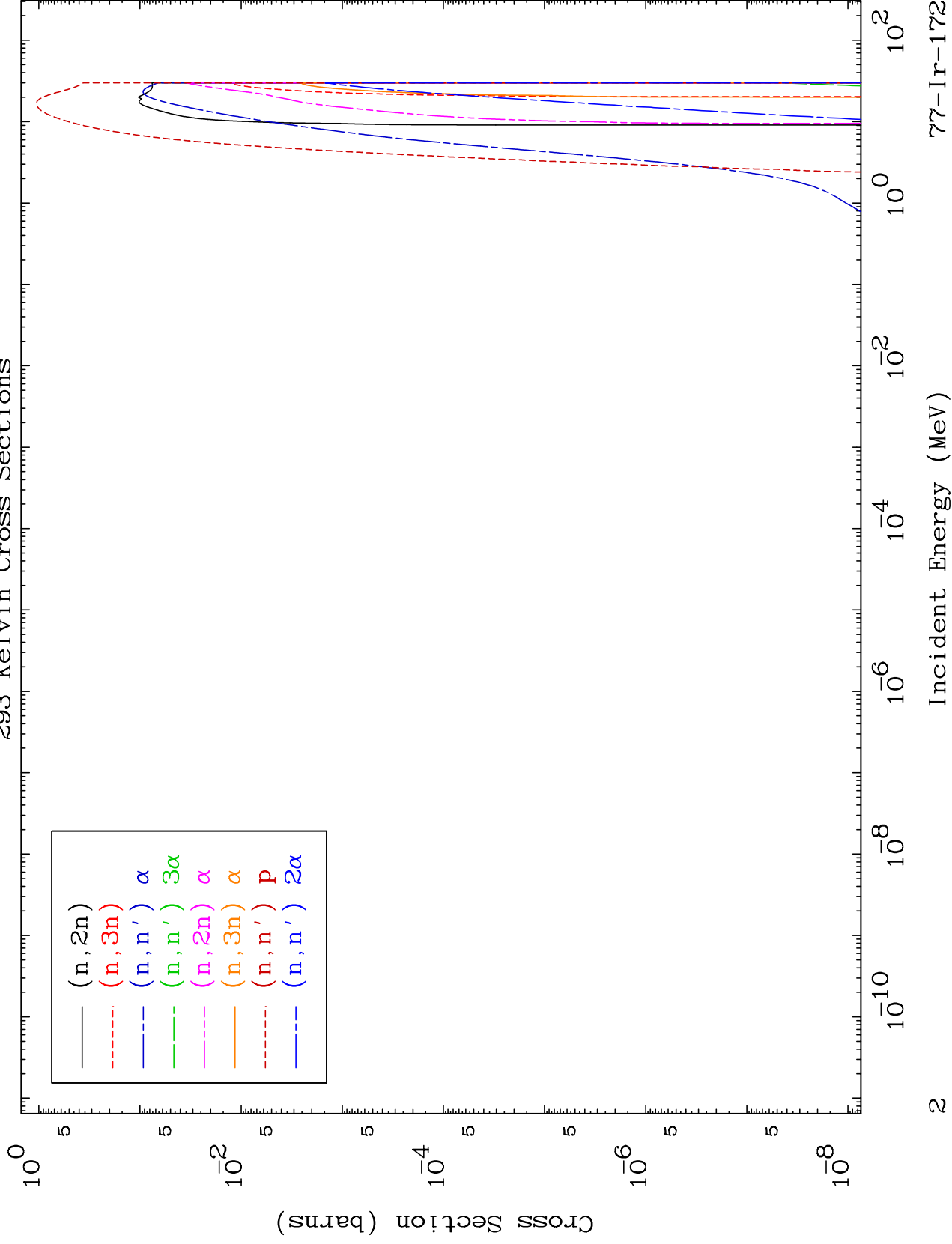
77-Ir-172



MAT 7668

Neutron Production
293 Kelvin Cross Sections

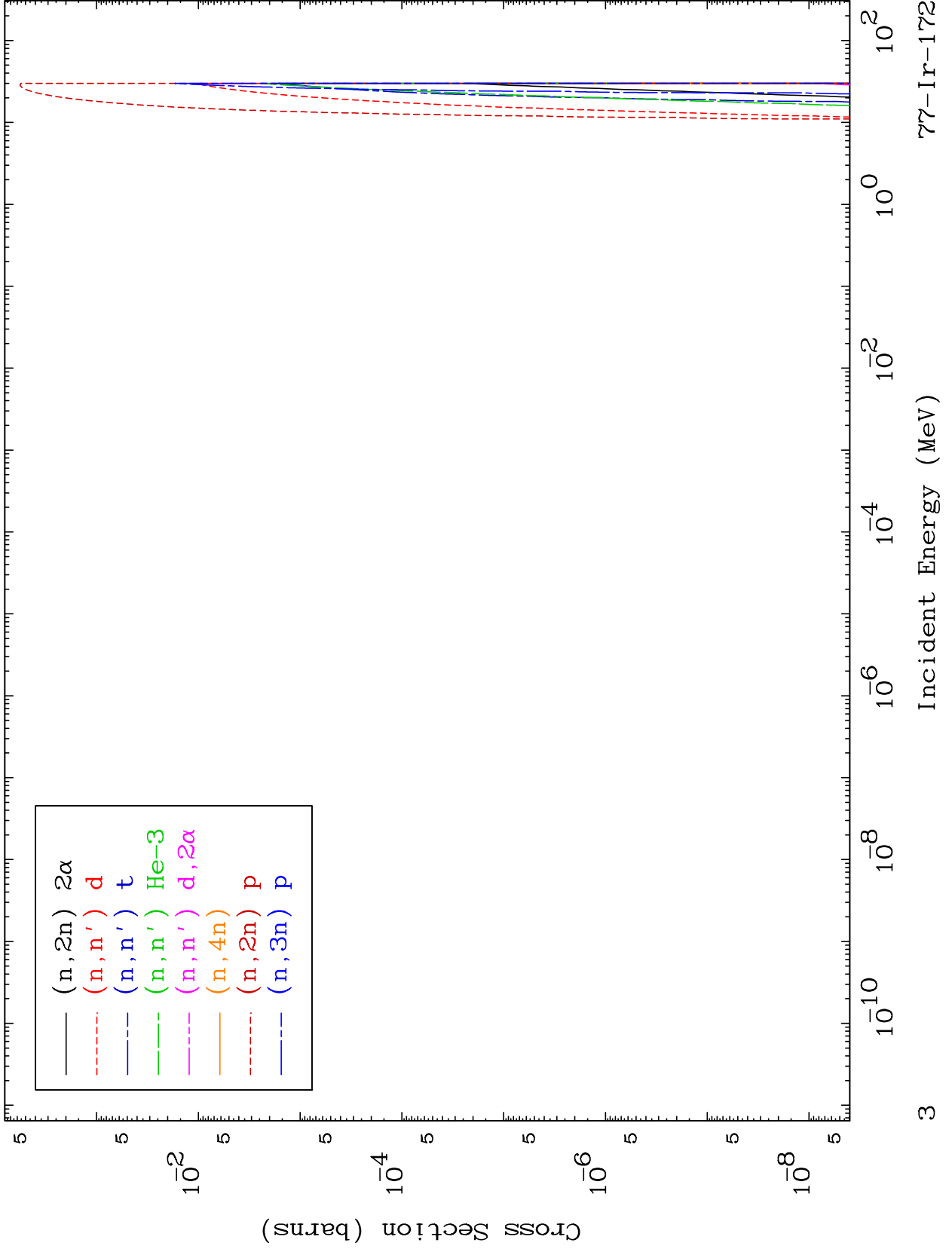
77-Ir-172



MAT 7668

Neutron Production
293 Kelvin Cross Sections

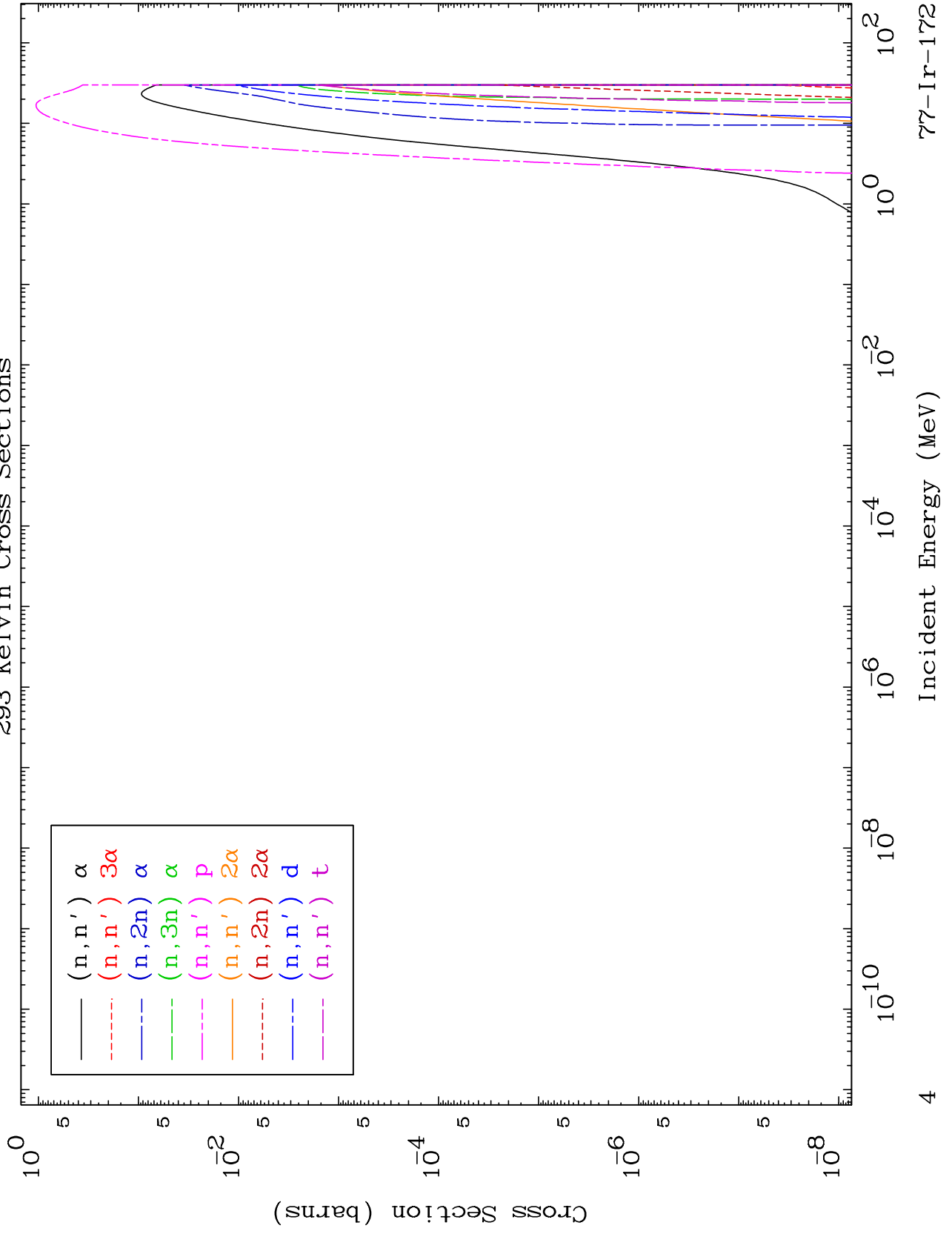
77-Ir-172



MAT 7668

Charged Particle
293 Kelvin Cross Sections

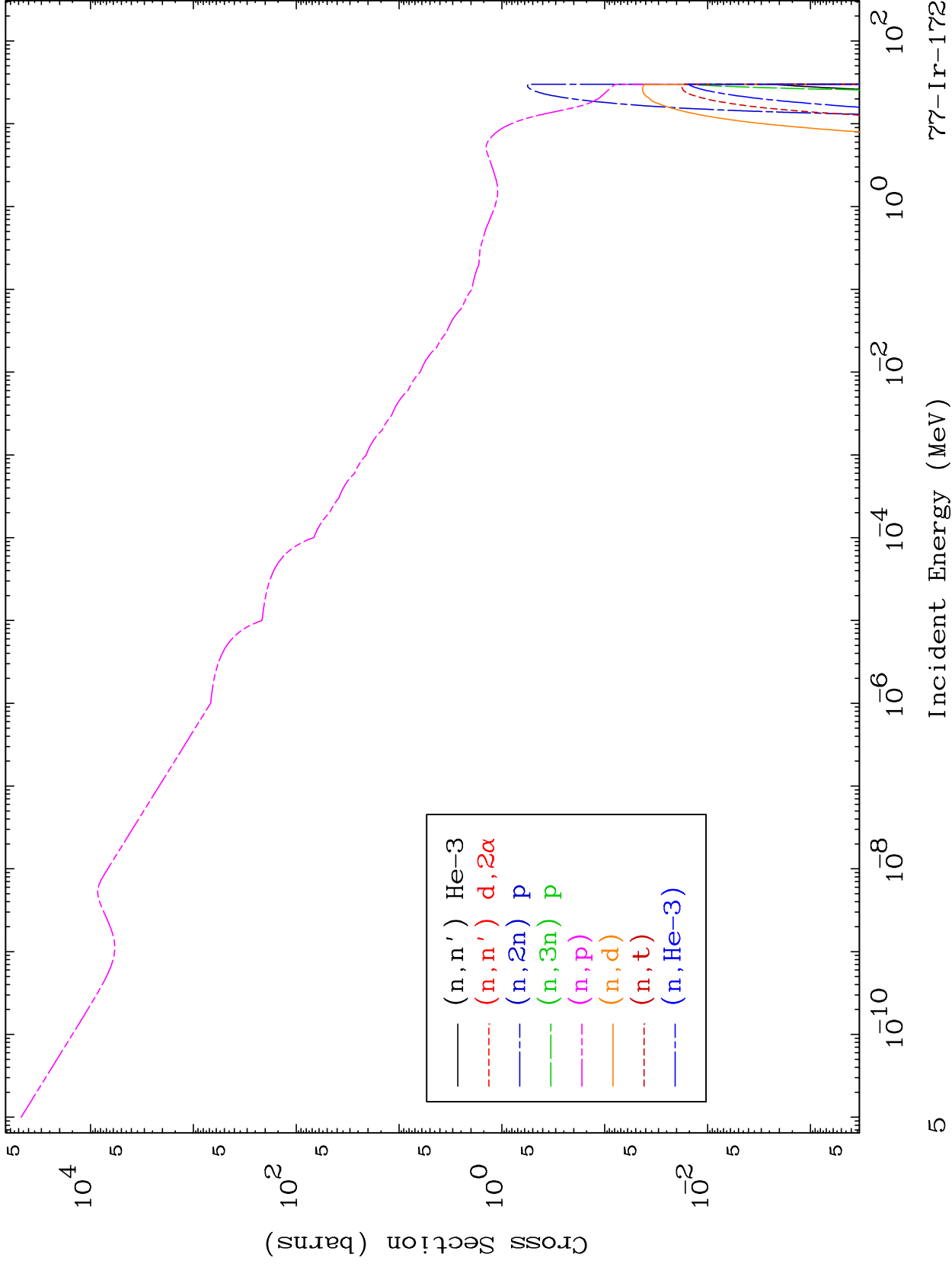
77-Ir-172

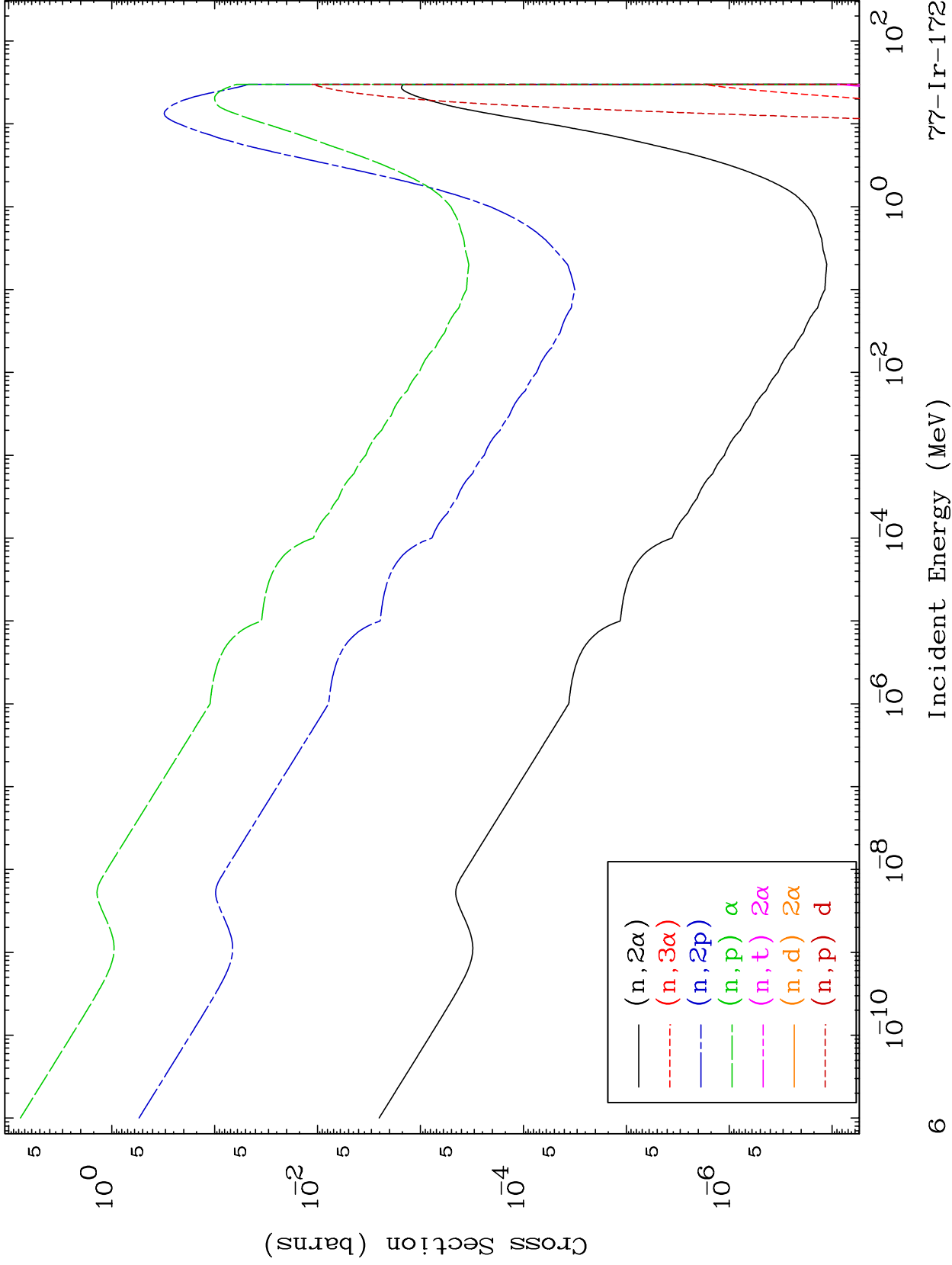


MAT 7668

Charged Particle
293 Kelvin Cross Sections

77-Ir-172

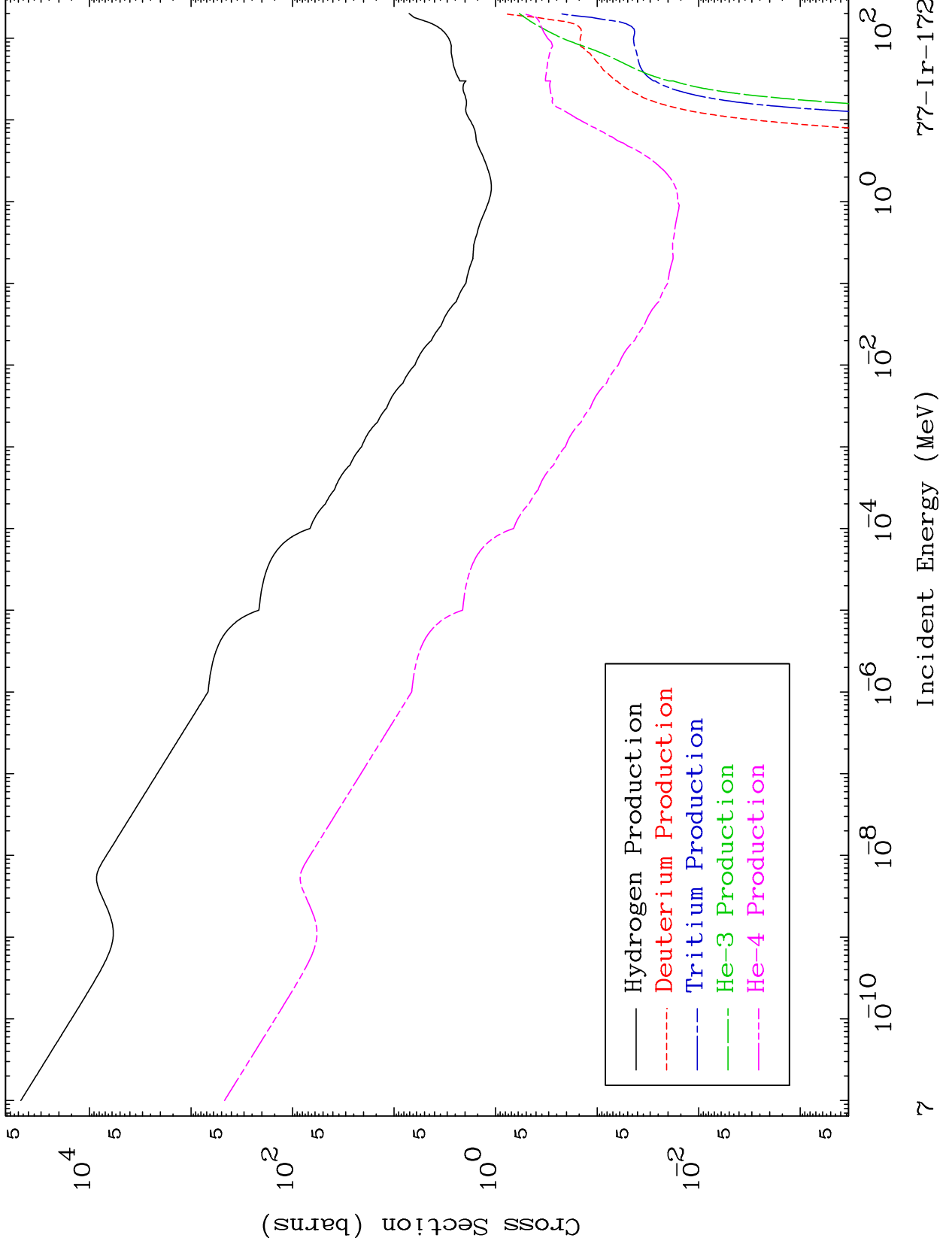




MAT 7668

Particle Production
293 Kelvin Cross Sections

77-Ir-172

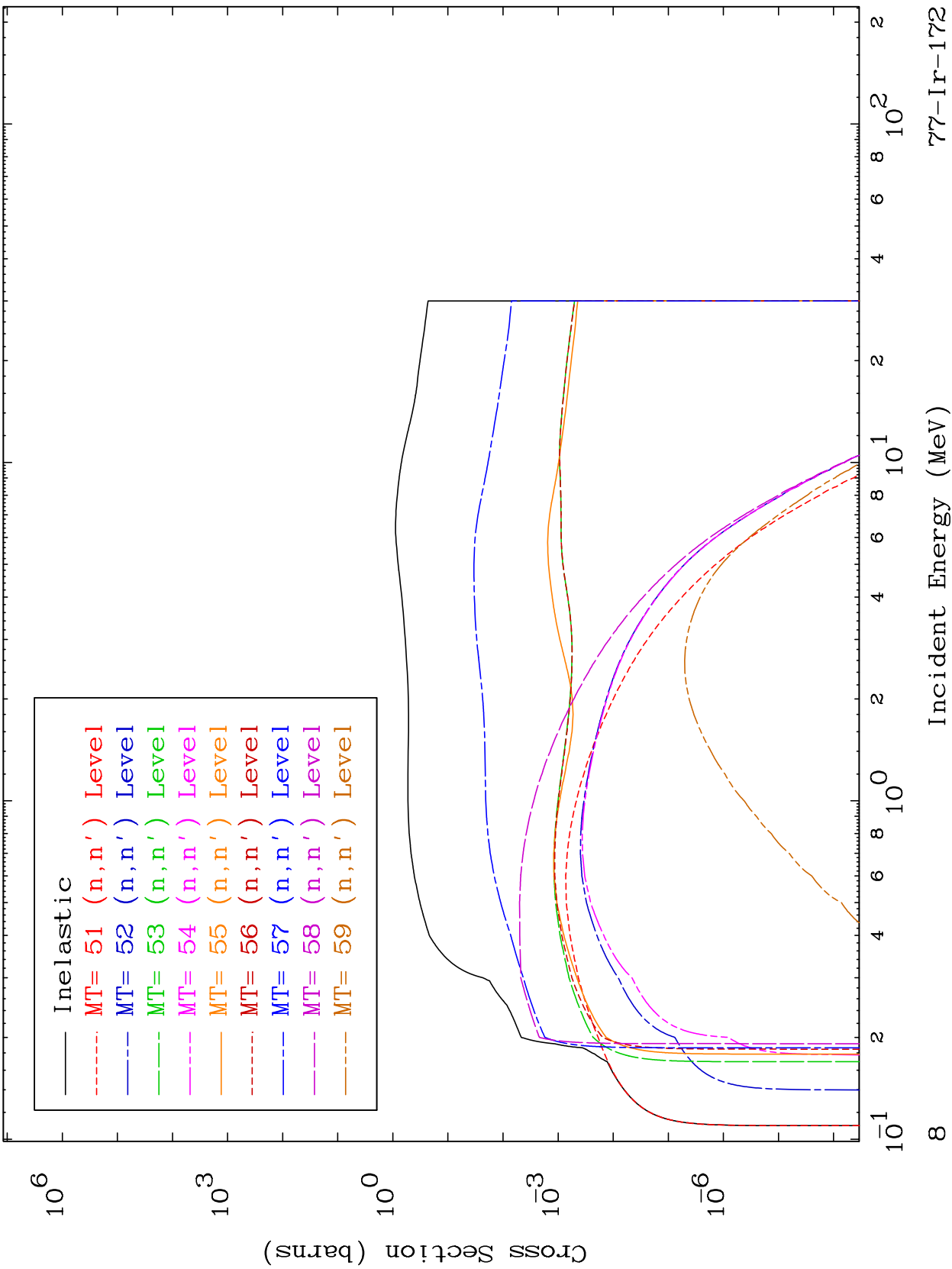


MAT 7668

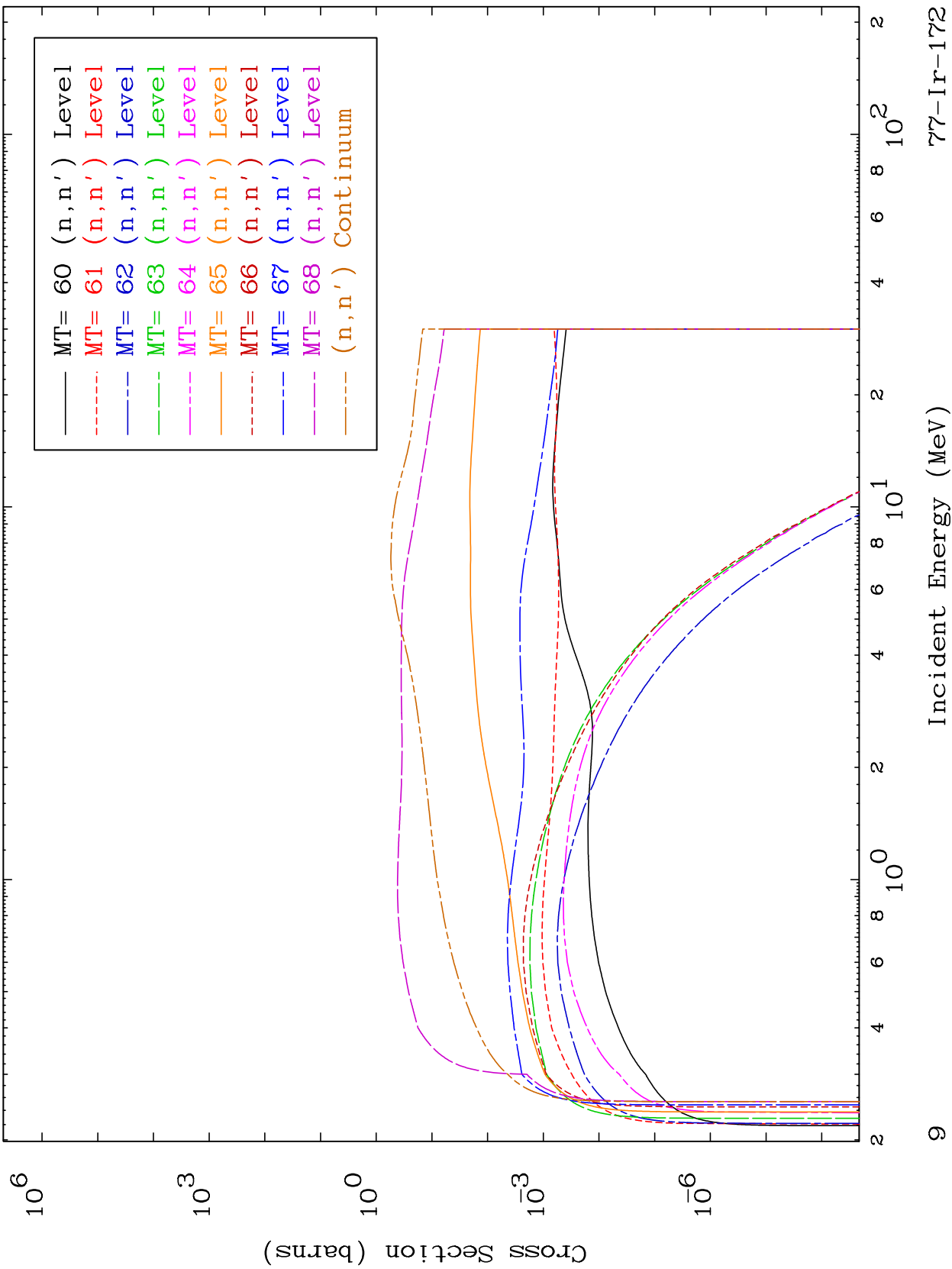
(n,n') Level

77-Ir-172

293 Kelvin Cross Sections



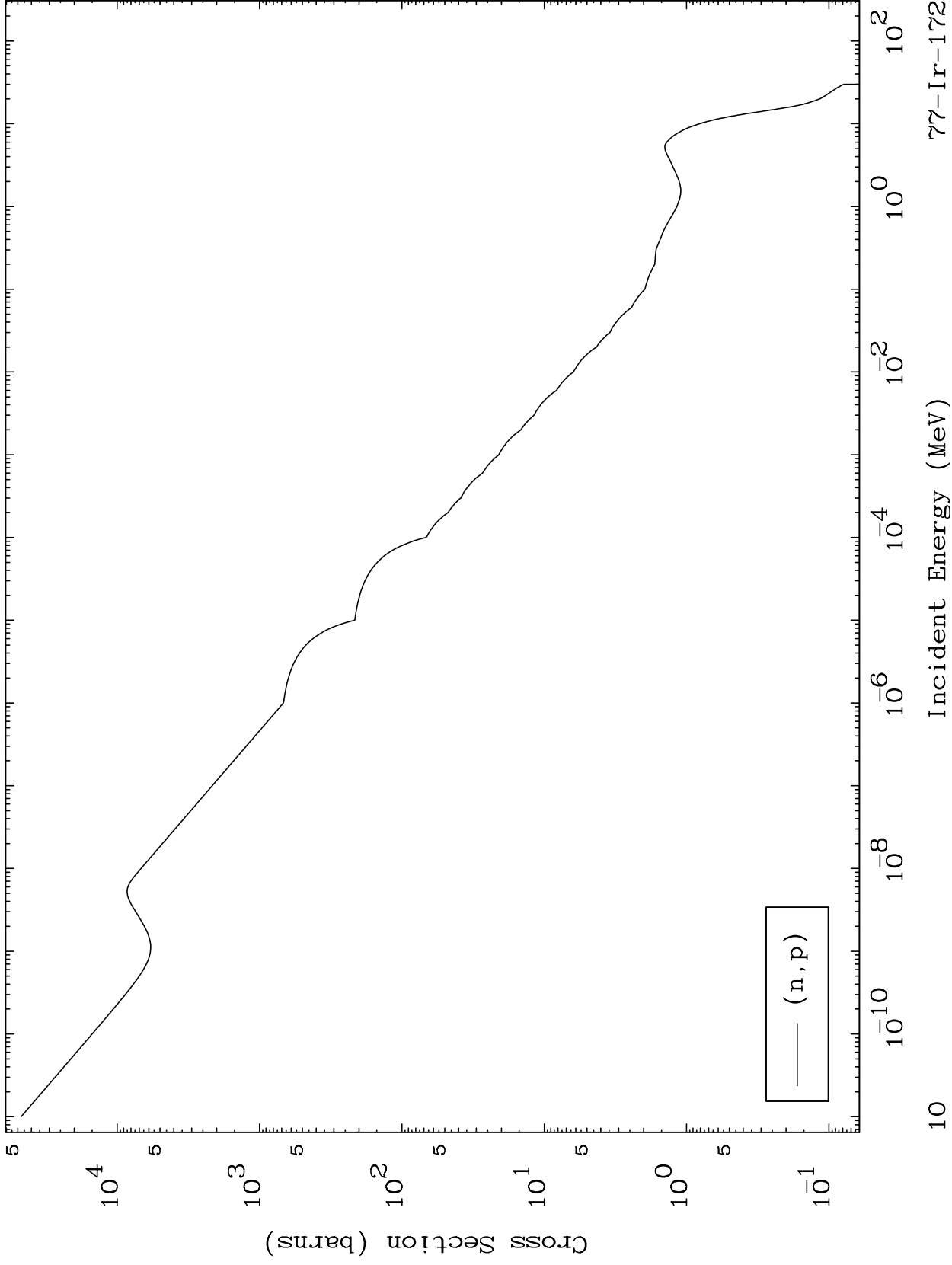
77-Ir-172



MAT 7668

(n,p) Levels
293 Kelvin Cross Sections

77-Ir-172



77-Ir-172

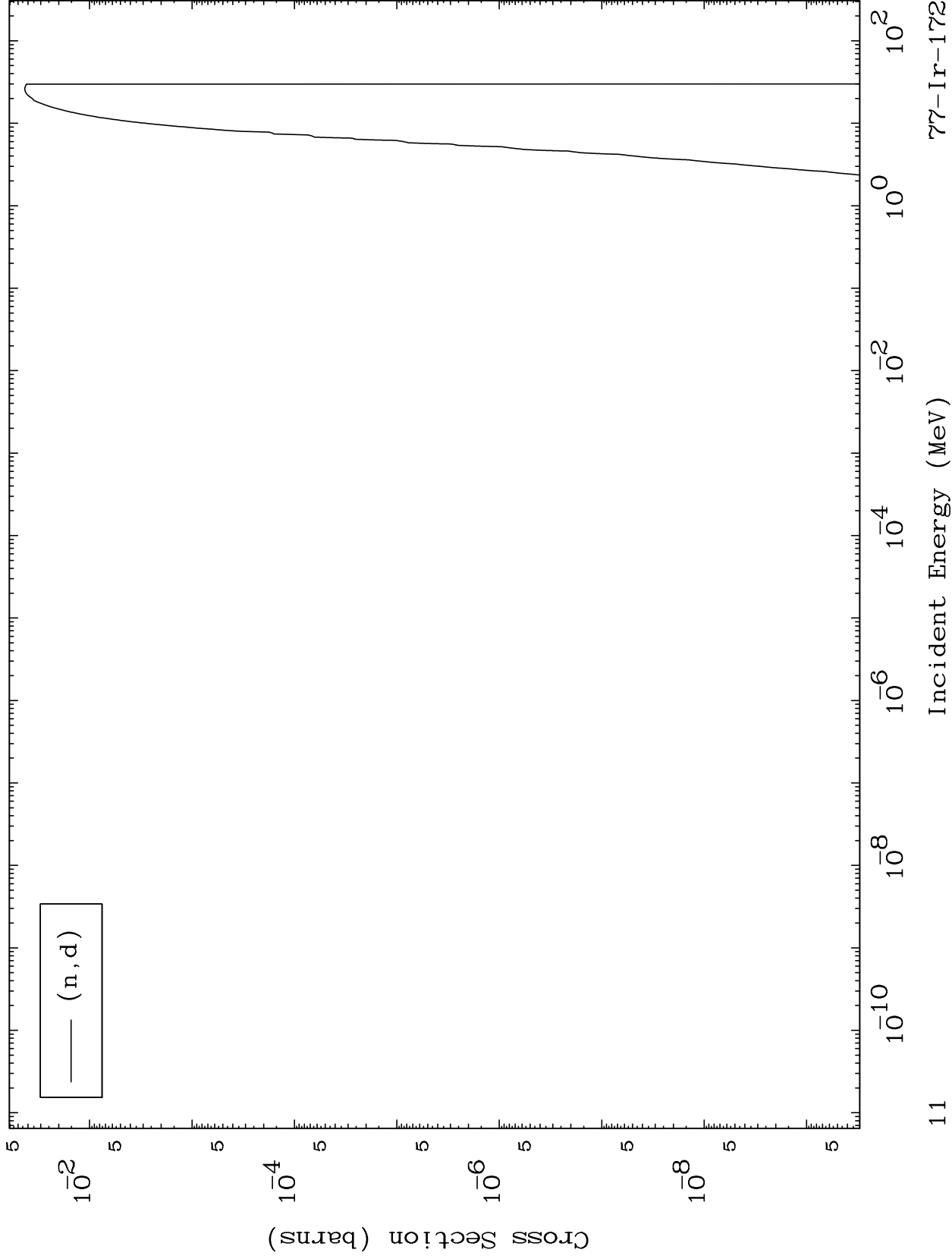
Incident Energy (MeV)

10

MAT 7668

(n,d) Levels
293 Kelvin Cross Sections

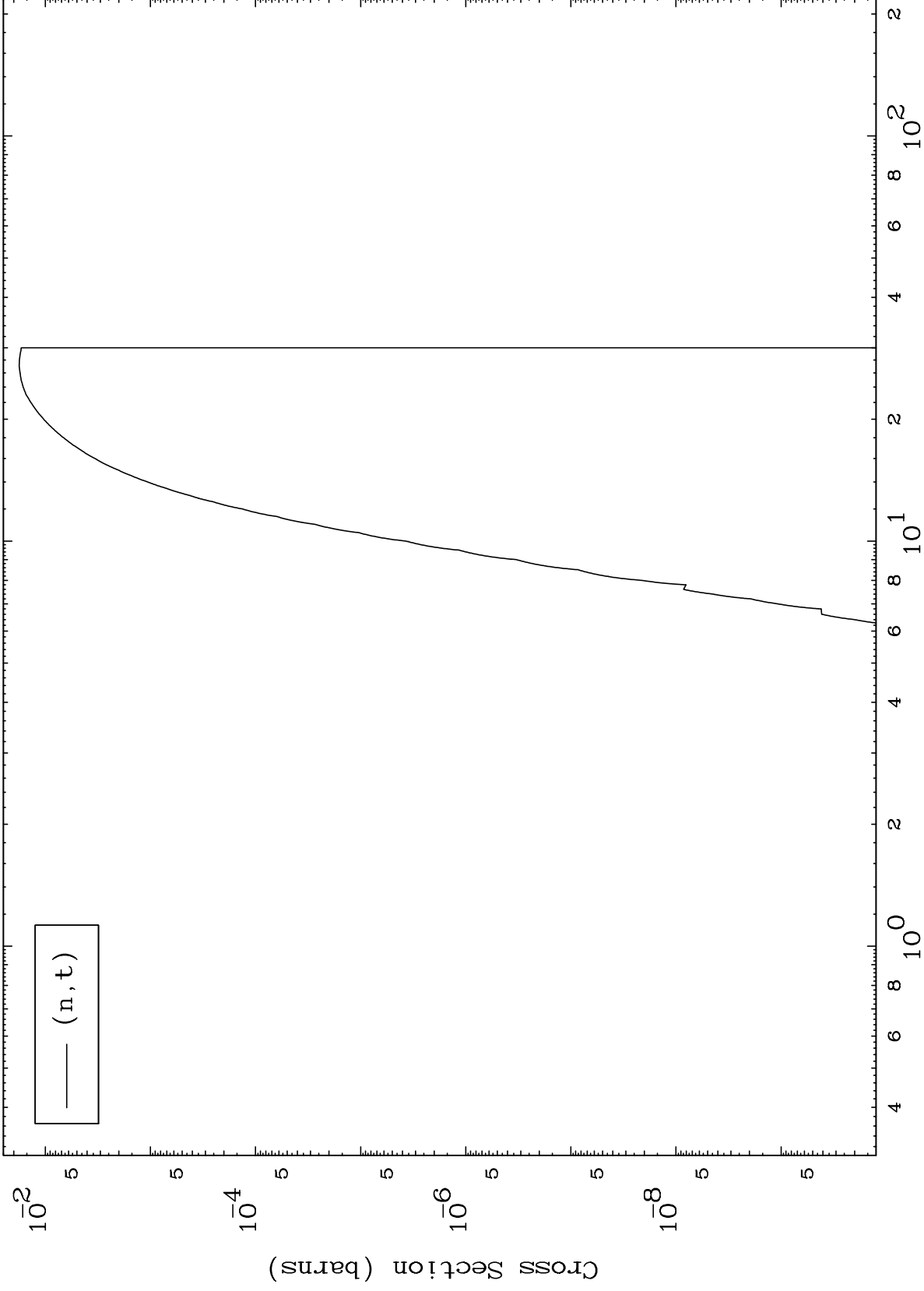
77-Ir-172



MAT 7668

(n,t) Levels
293 Kelvin Cross Sections

77-Ir-172



12

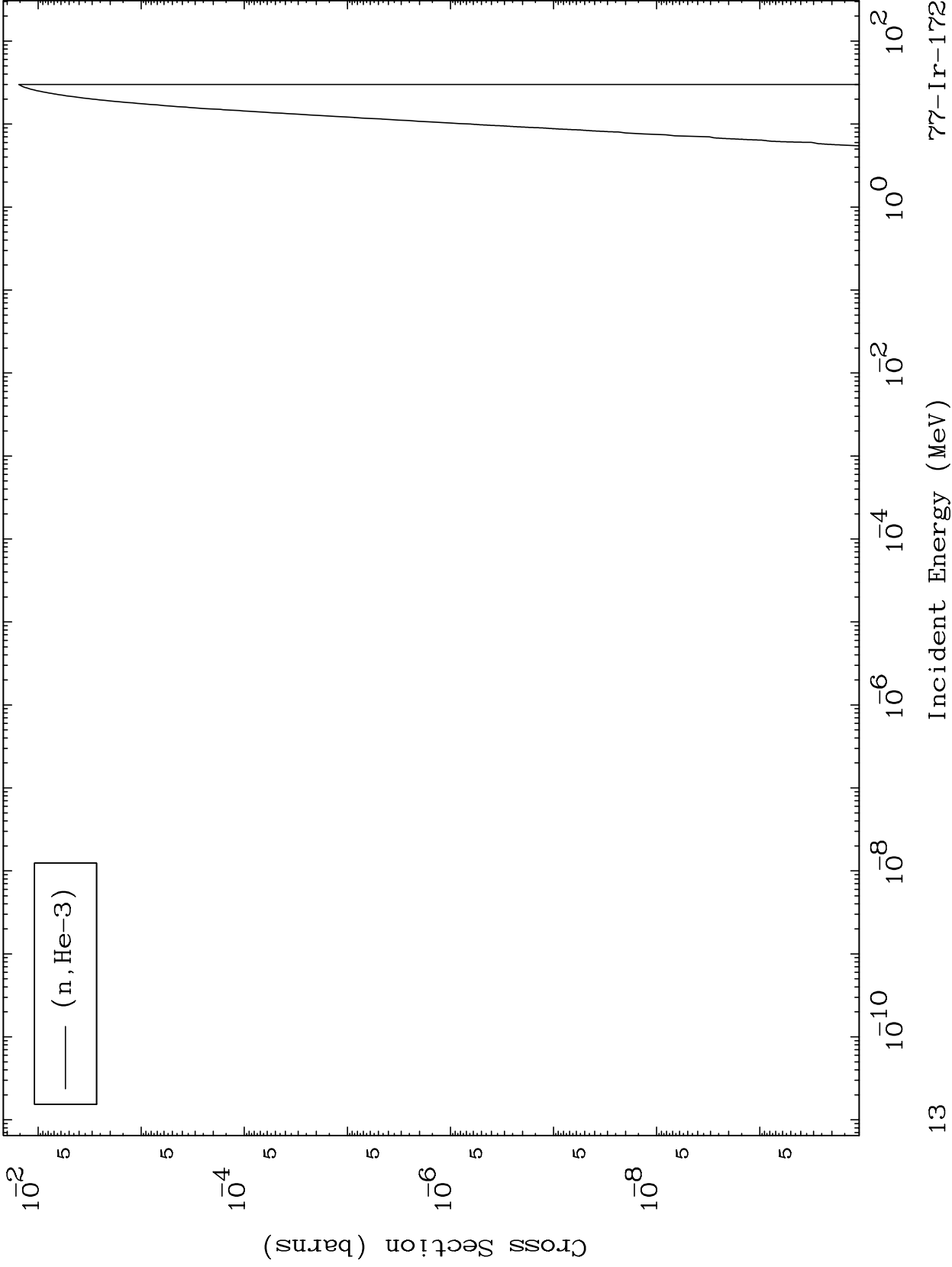
Incident Energy (MeV)

77-Ir-172

MAT 7668

(n,He3) Levels
293 Kelvin Cross Sections

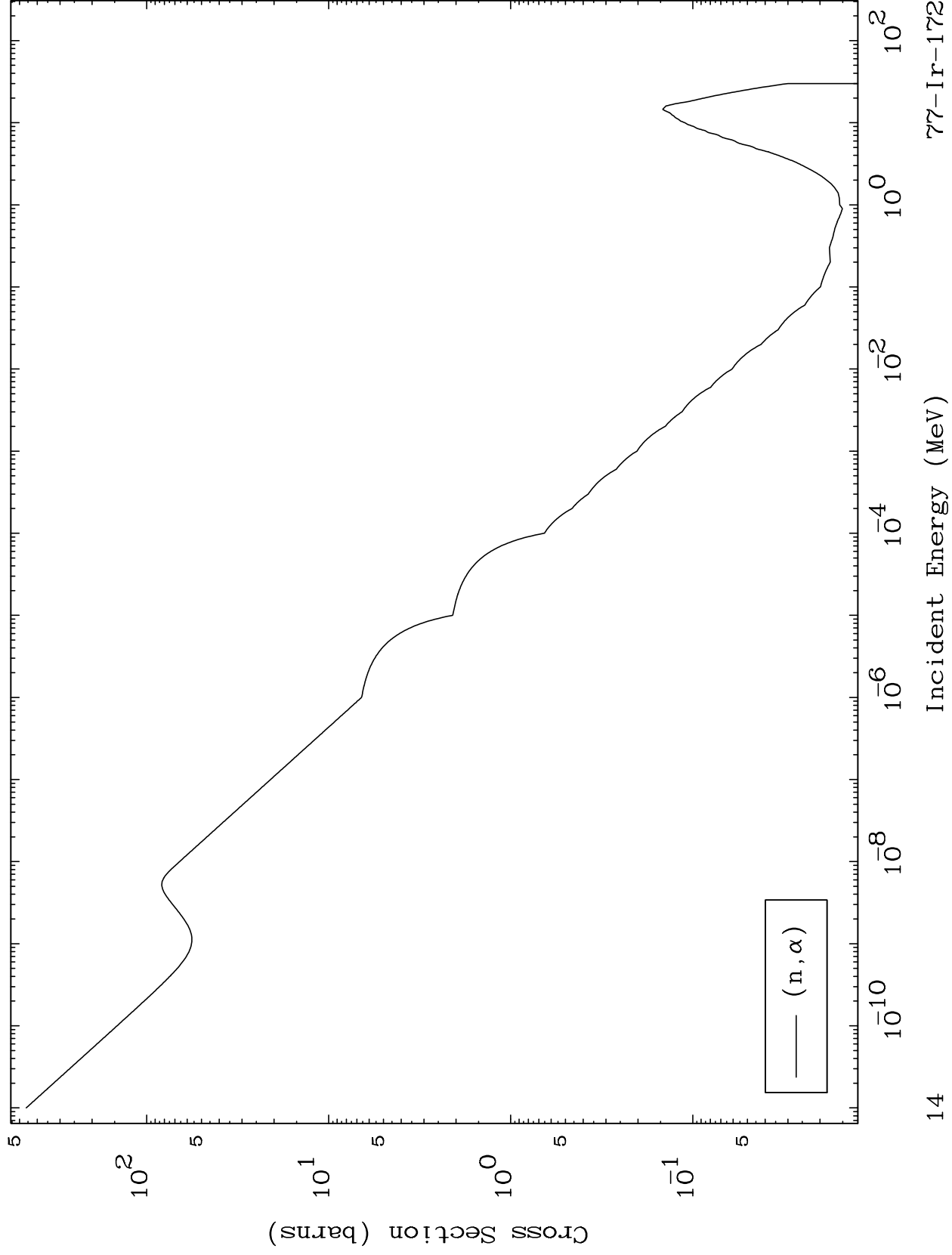
⁷⁷Ir-172

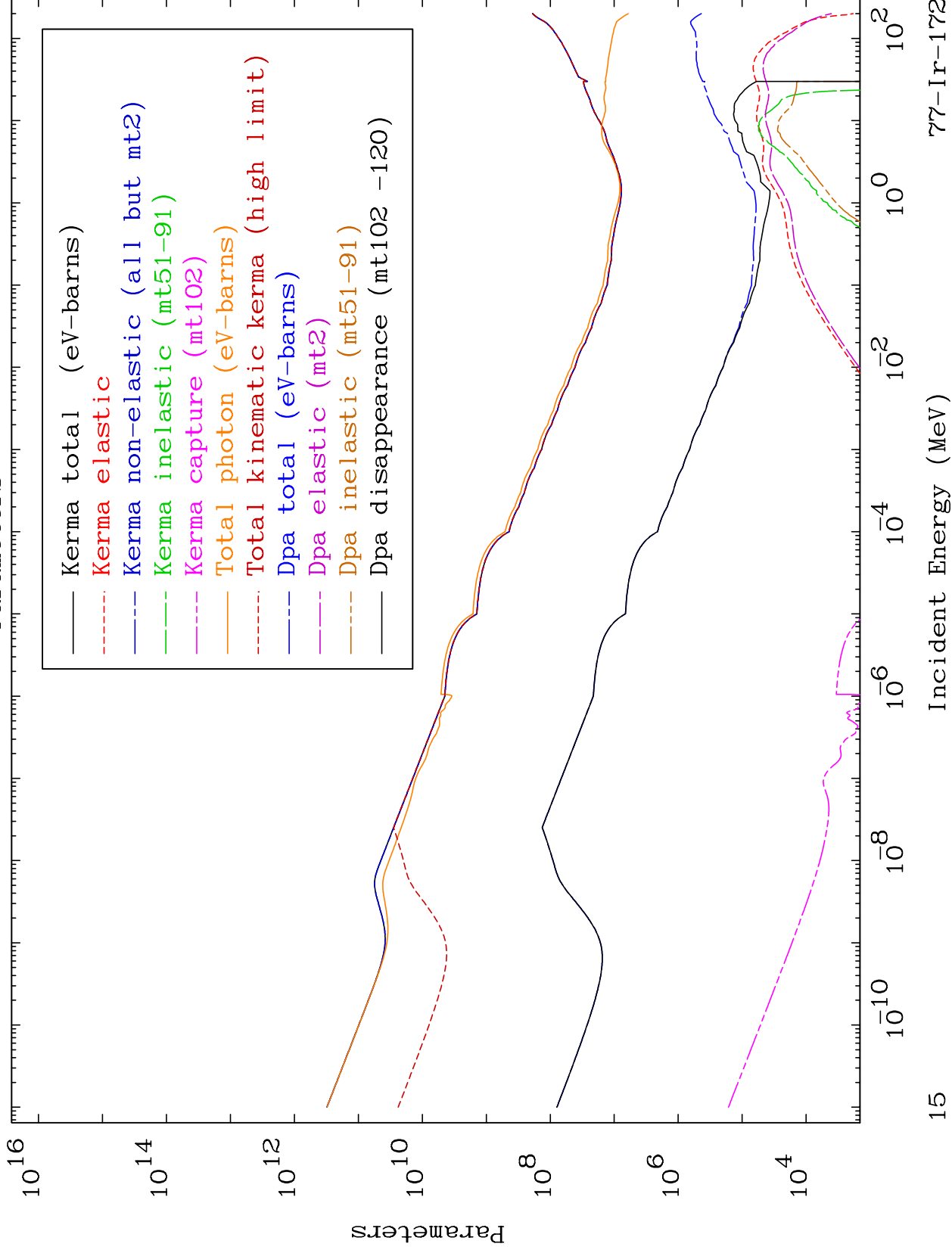


MAT 7668

(n, α) Levels
293 Kelvin Cross Sections

77-Ir-172

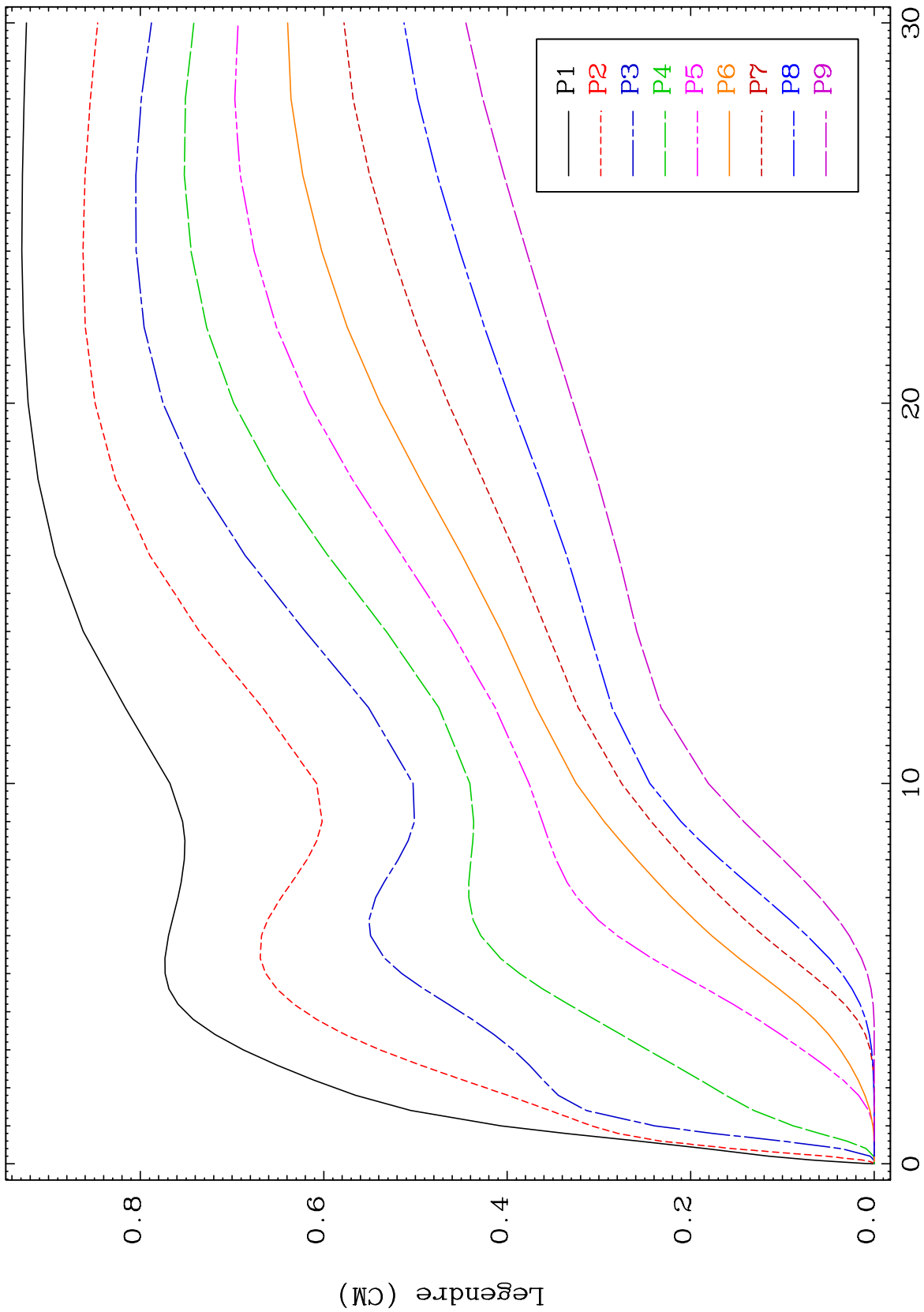




MAT 7668

Elastic Legendre Coefficients

77-Ir-172



16

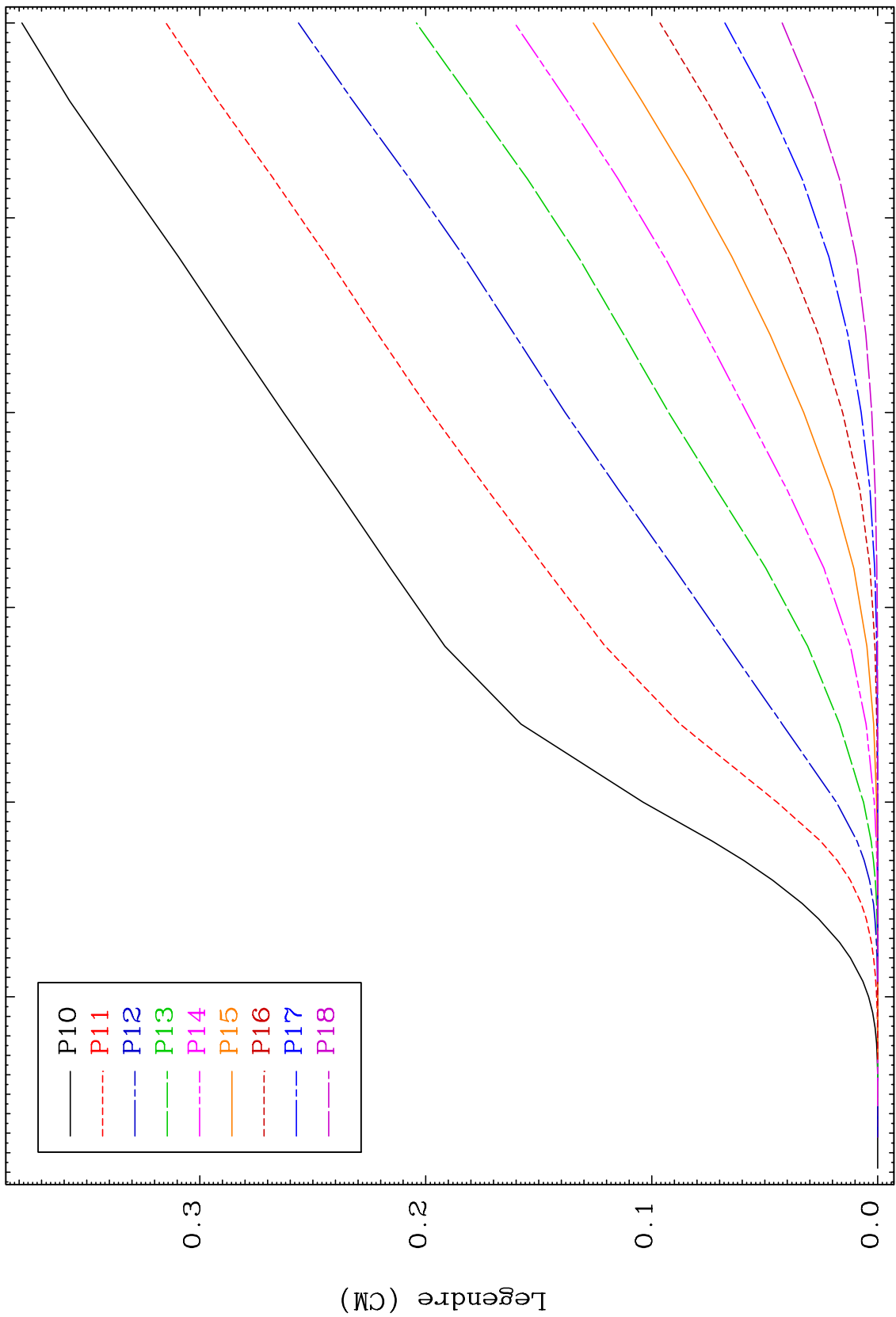
Incident Energy (MeV)

77-Ir-172

MAT 7668

Elastic Legendre Coefficients

⁷⁷Ir-172



17

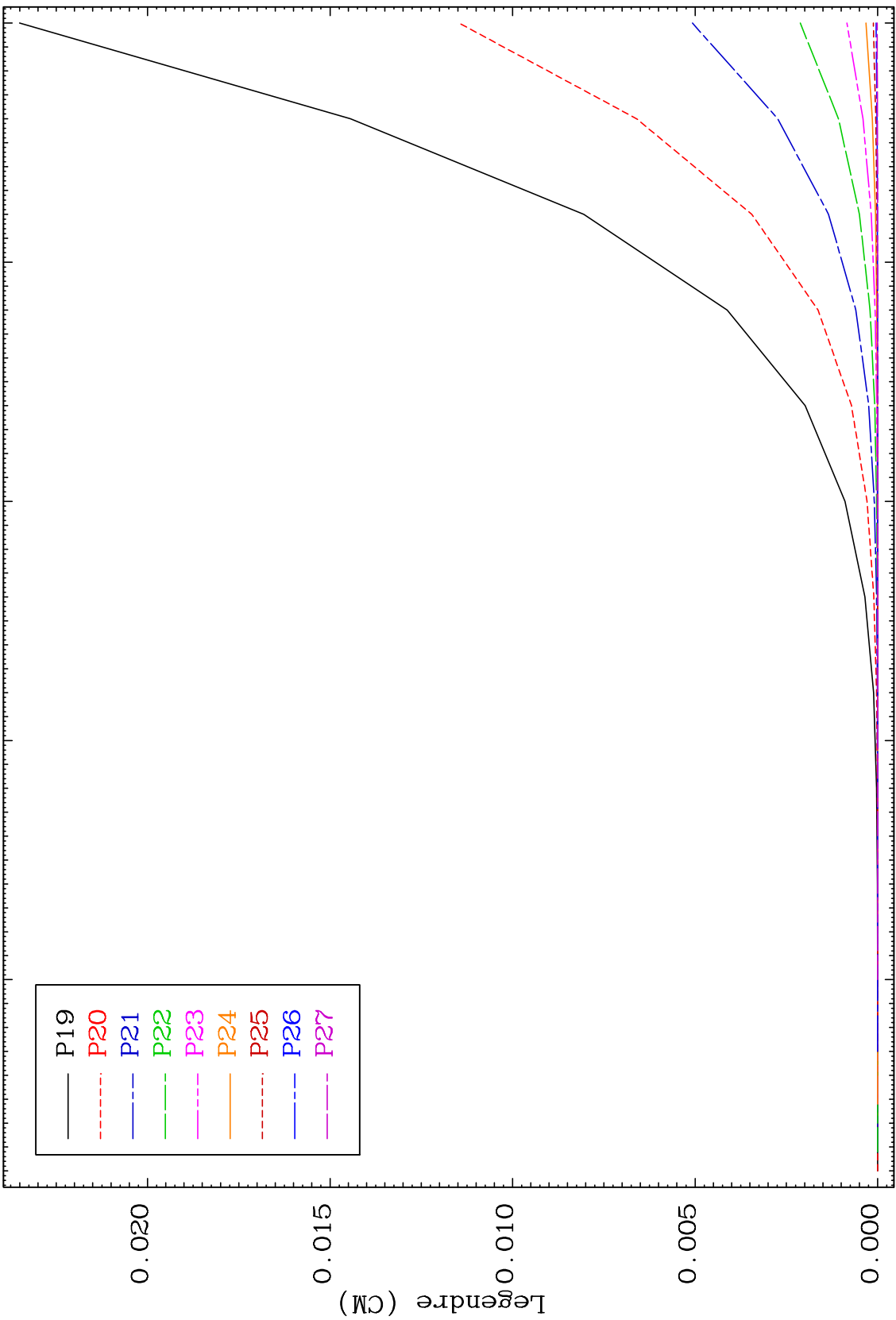
Incident Energy (MeV)

⁷⁷Ir-172

MAT 7668

Elastic Legendre Coefficients

77-Ir-172



18

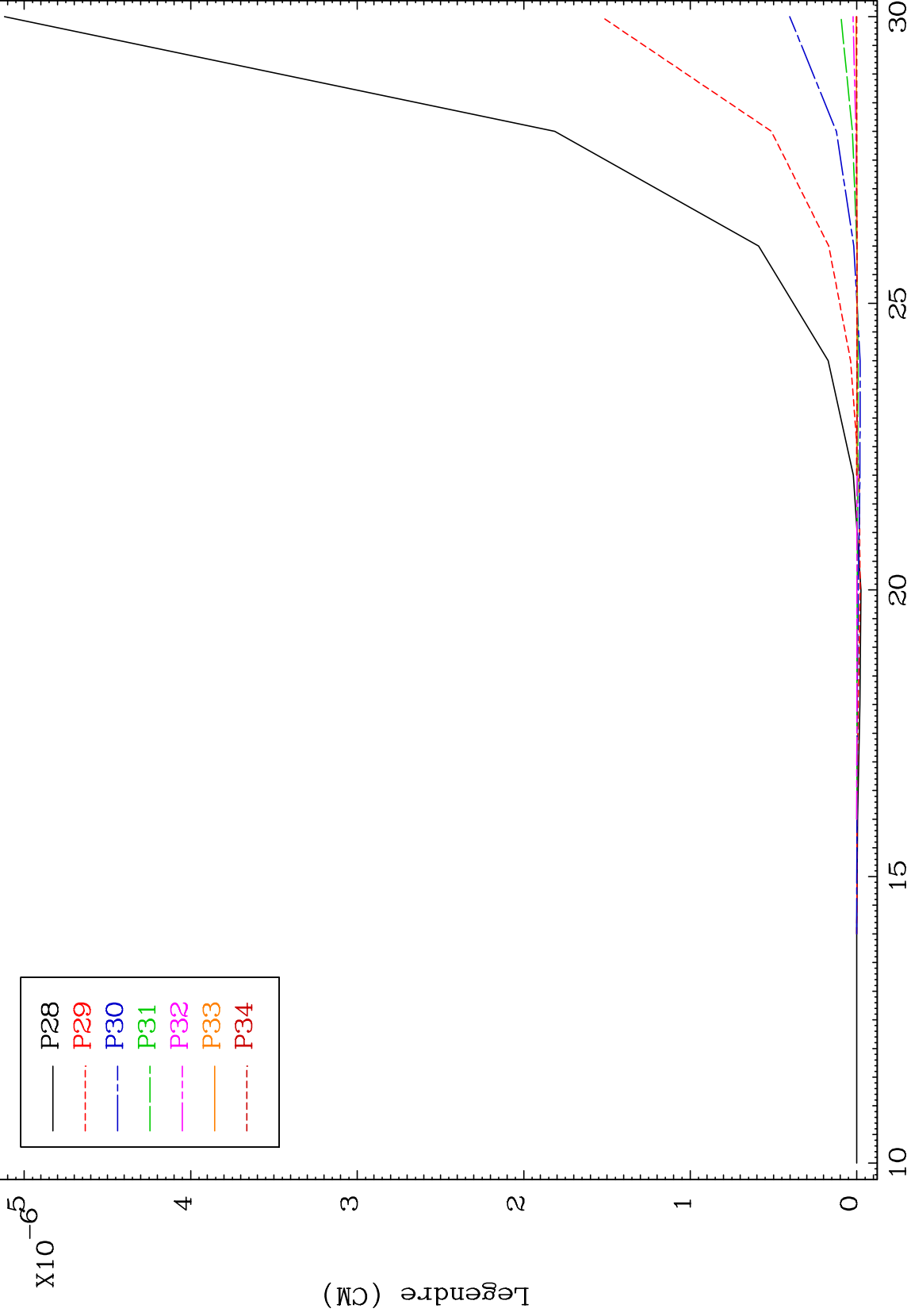
Incident Energy (MeV)

77-Ir-172

MAT 7668

Elastic Legendre Coefficients

⁷⁷Ir-172



19

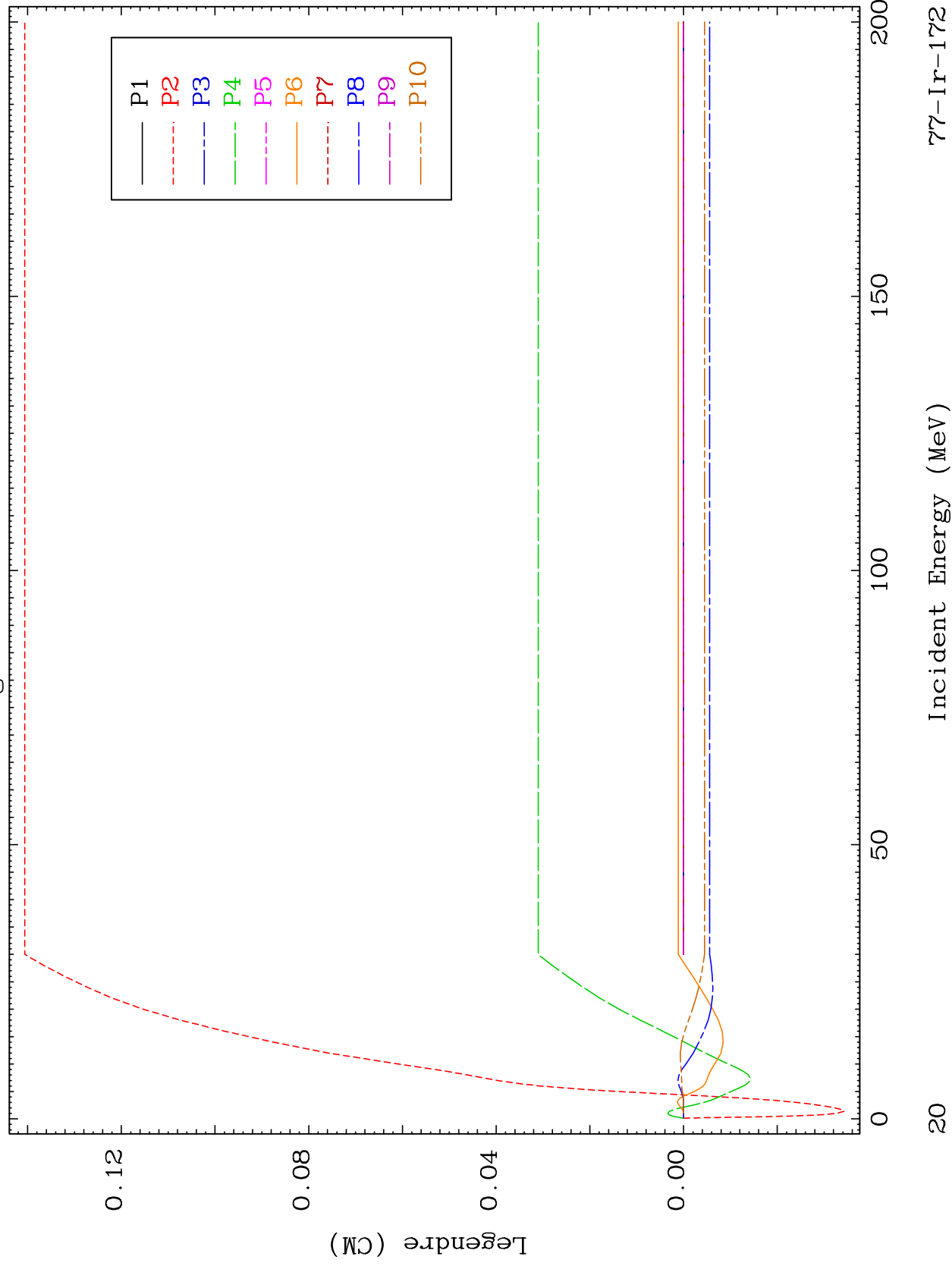
Incident Energy (MeV)

⁷⁷Ir-172

MAT 7668

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

77-Ir-172

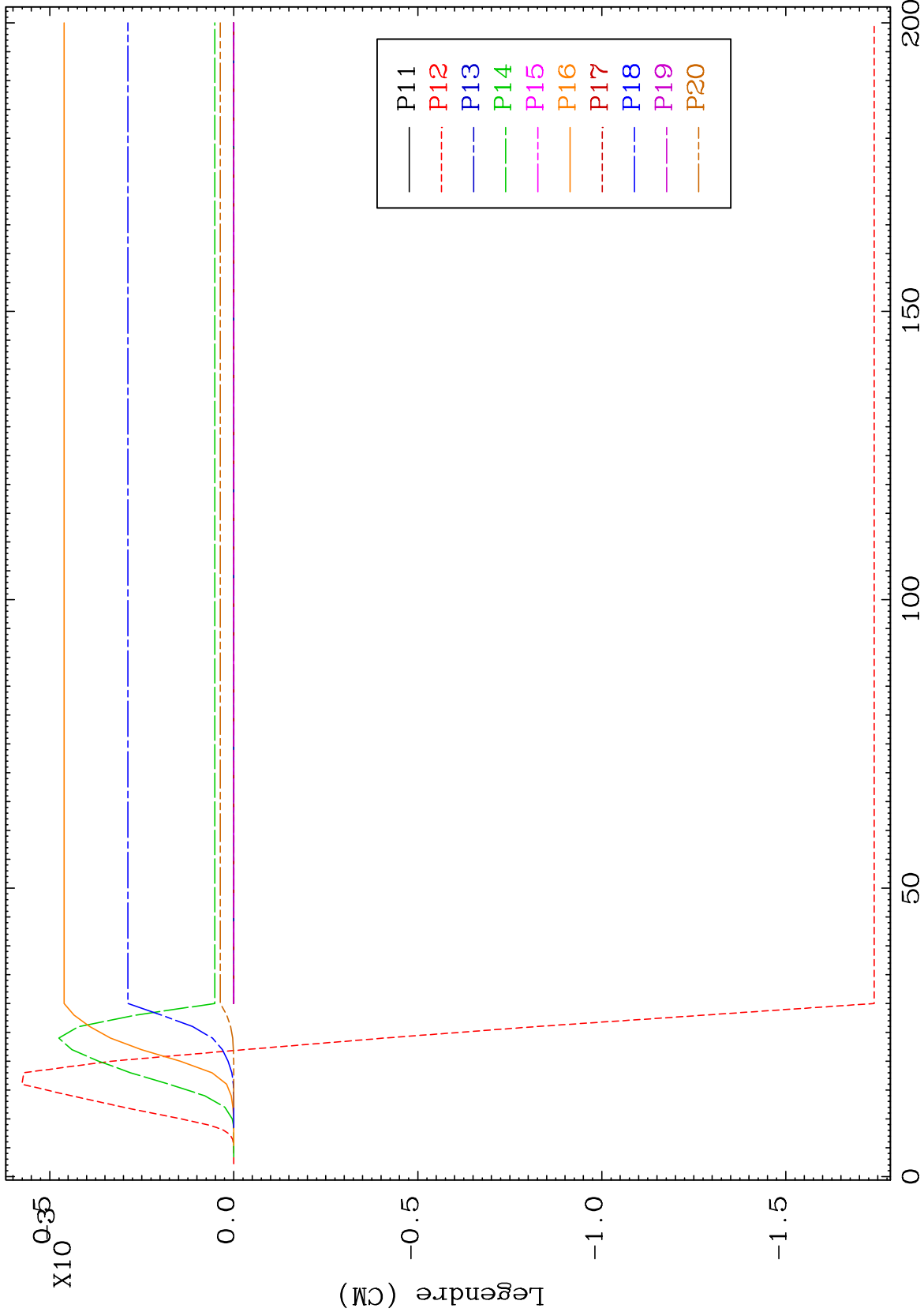


77-Ir-172

MAT 7668

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

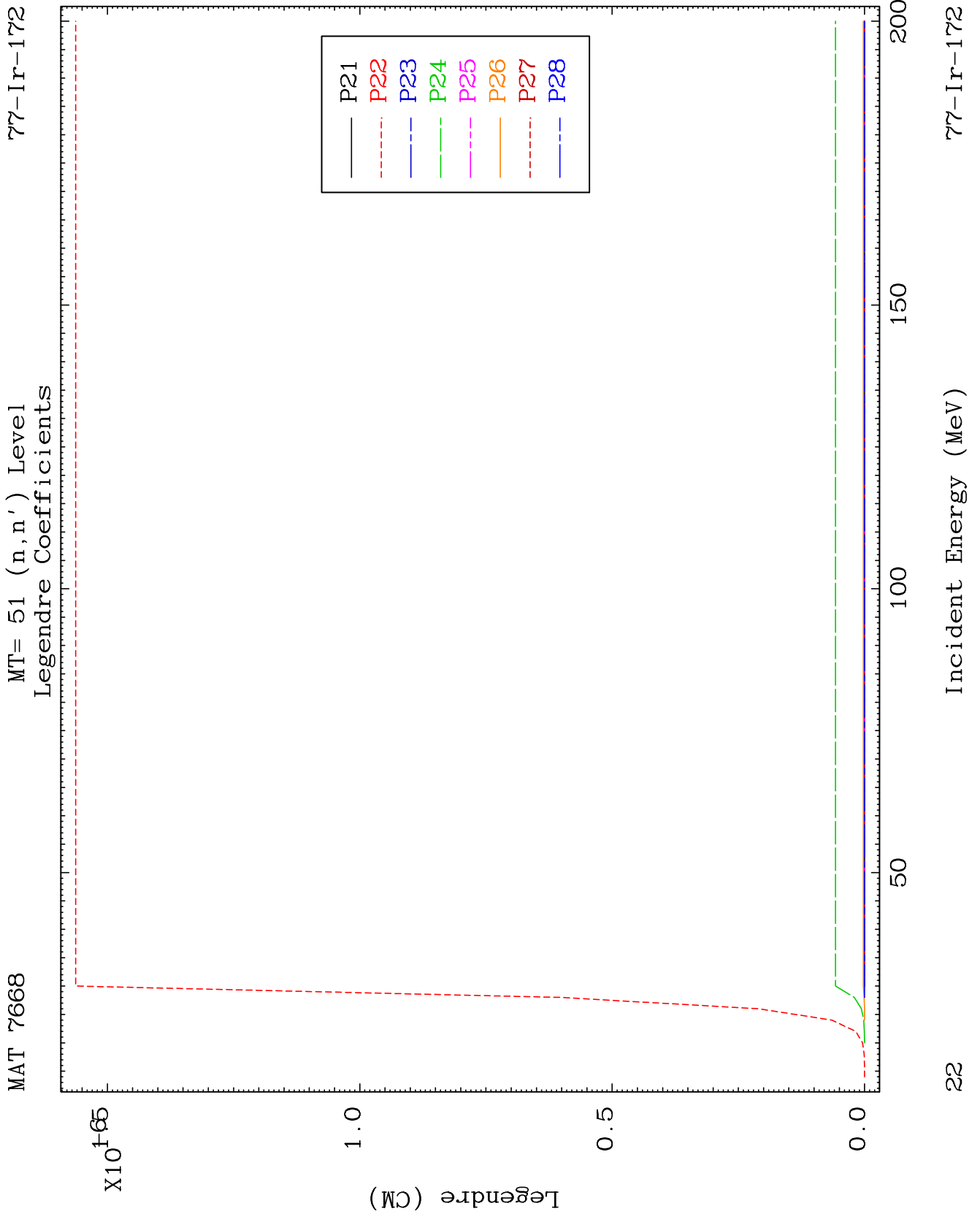
77-Ir-172



21

Incident Energy (MeV)

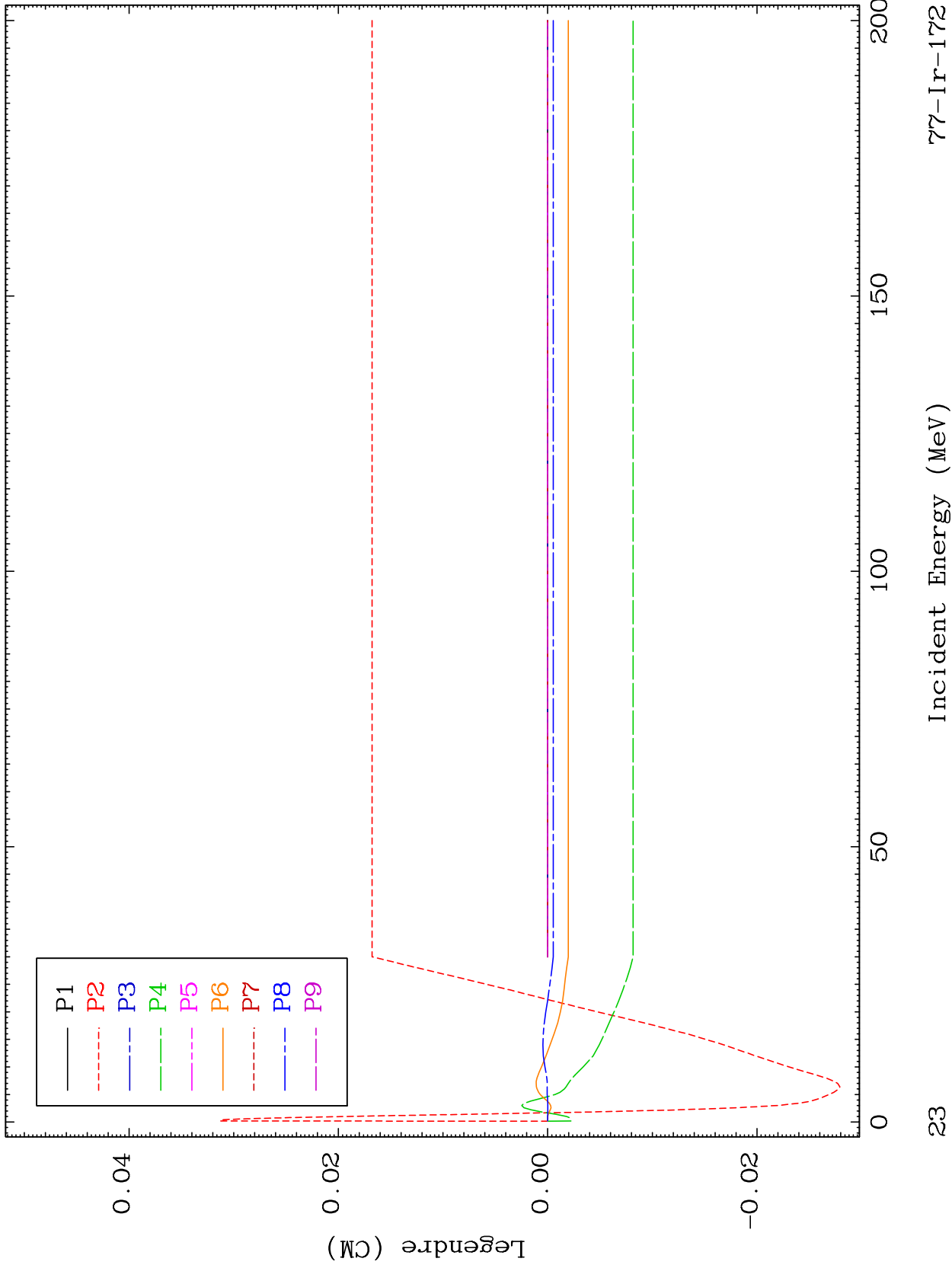
77-Ir-172



MAT 7668

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

77-Ir-172



77-Ir-172

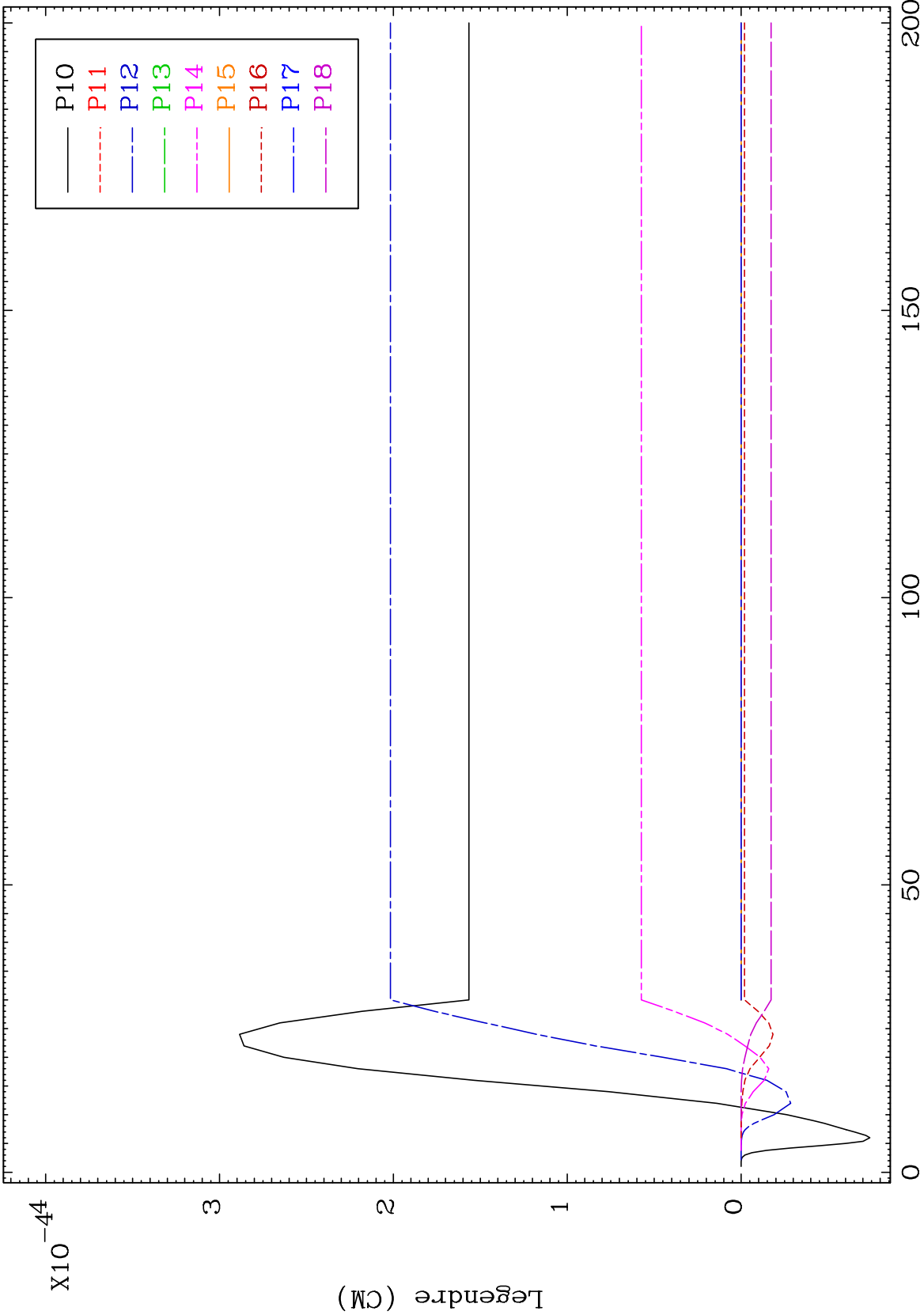
Incident Energy (MeV)

23

MAT 7668

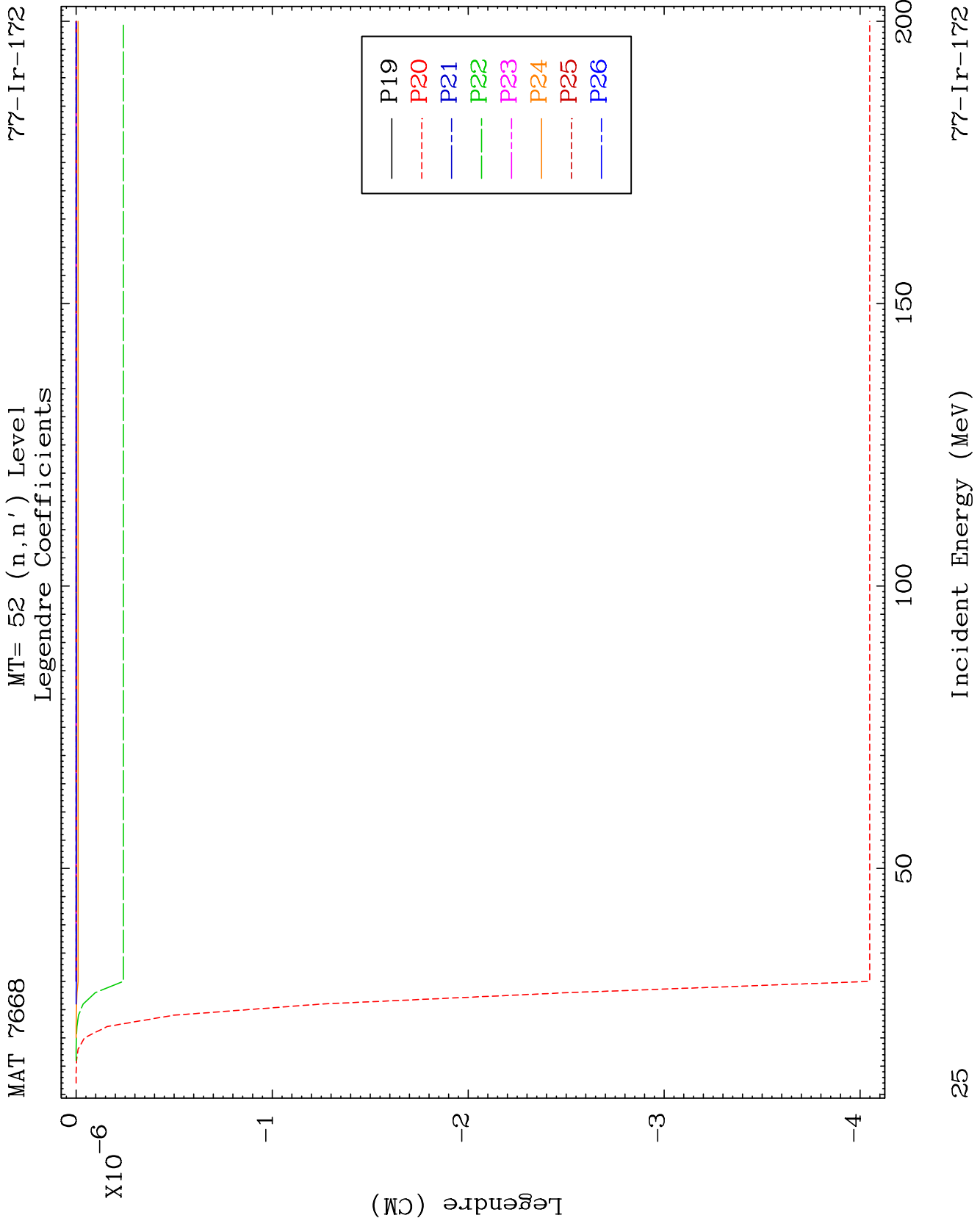
MT= 52 (n,n') Level
Legendre Coefficients

77-Ir-172



24

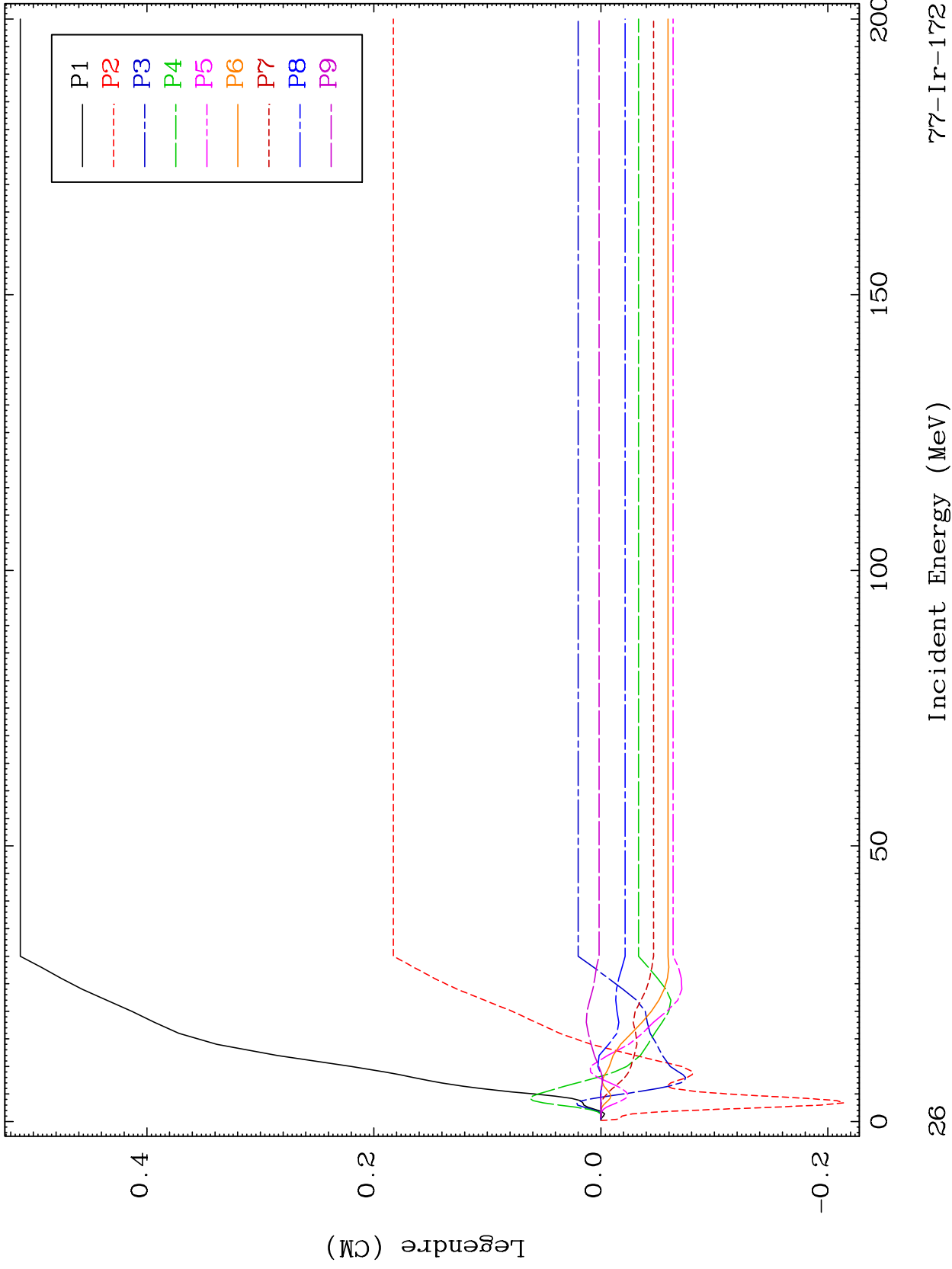
77-Ir-172



MAT 7668

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

77-Ir-172



77-Ir-172

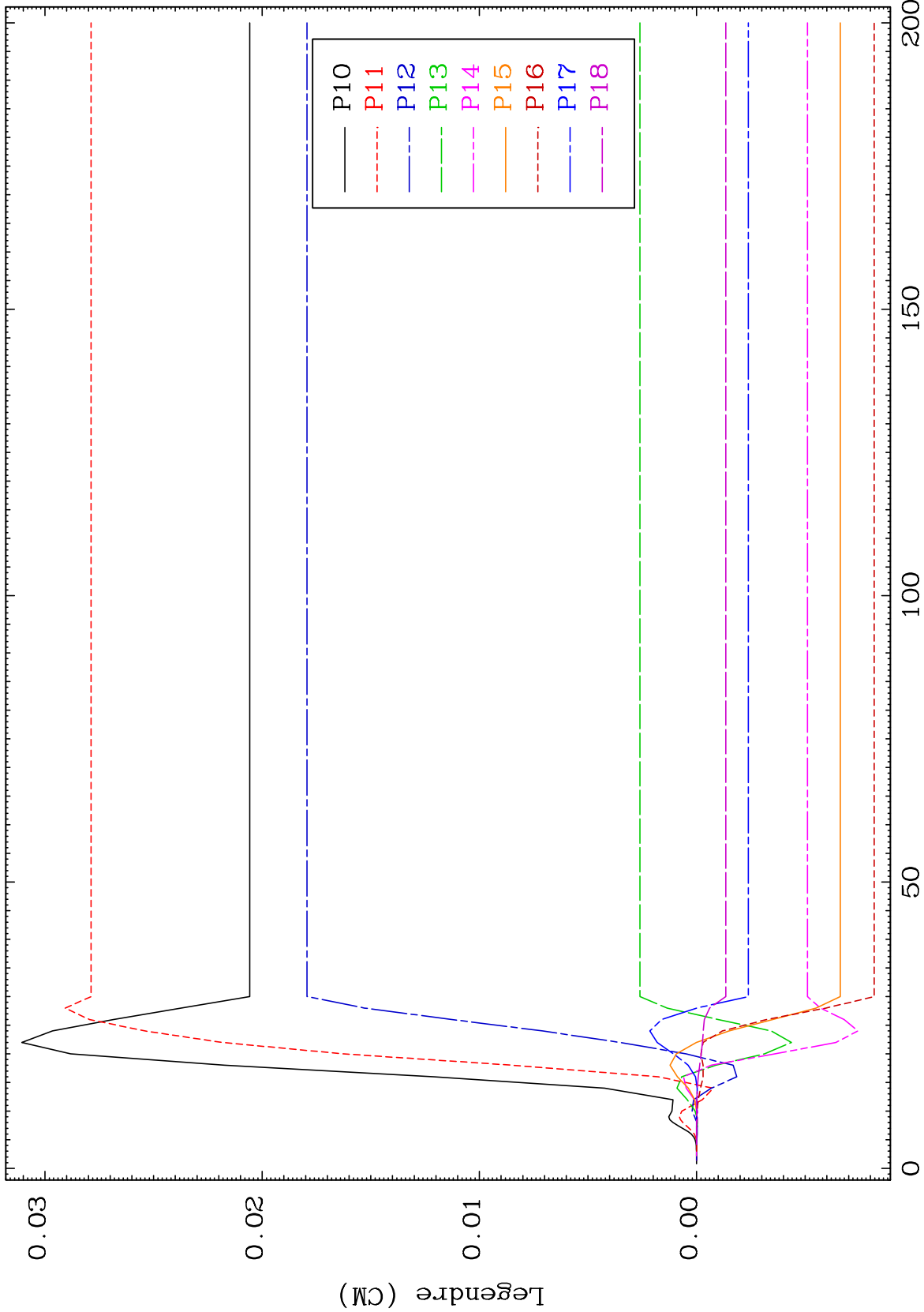
Incident Energy (MeV)

26

MAT 7668

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

77-Ir-172



27

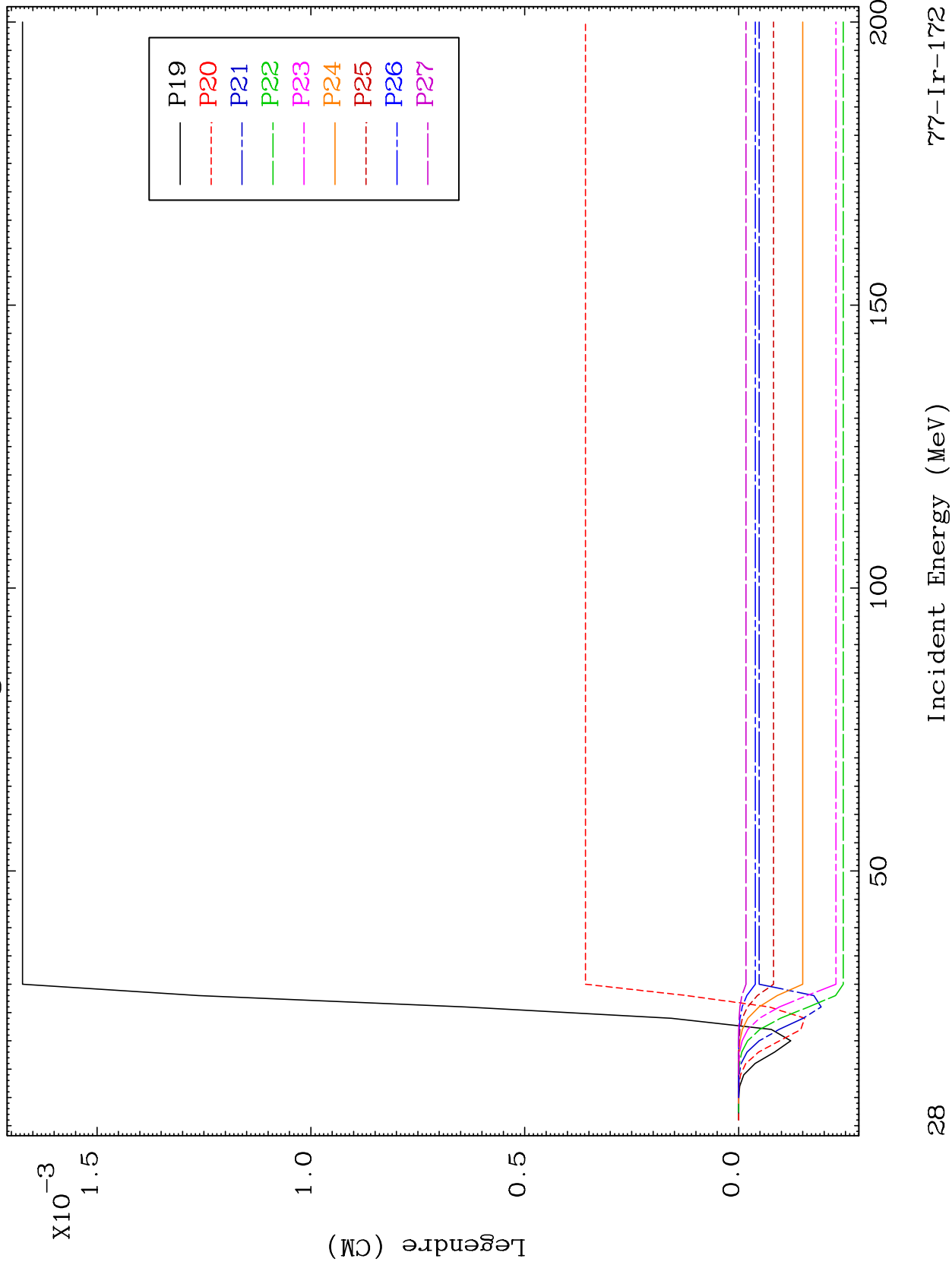
Incident Energy (MeV)

77-Ir-172

MAT 7668

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

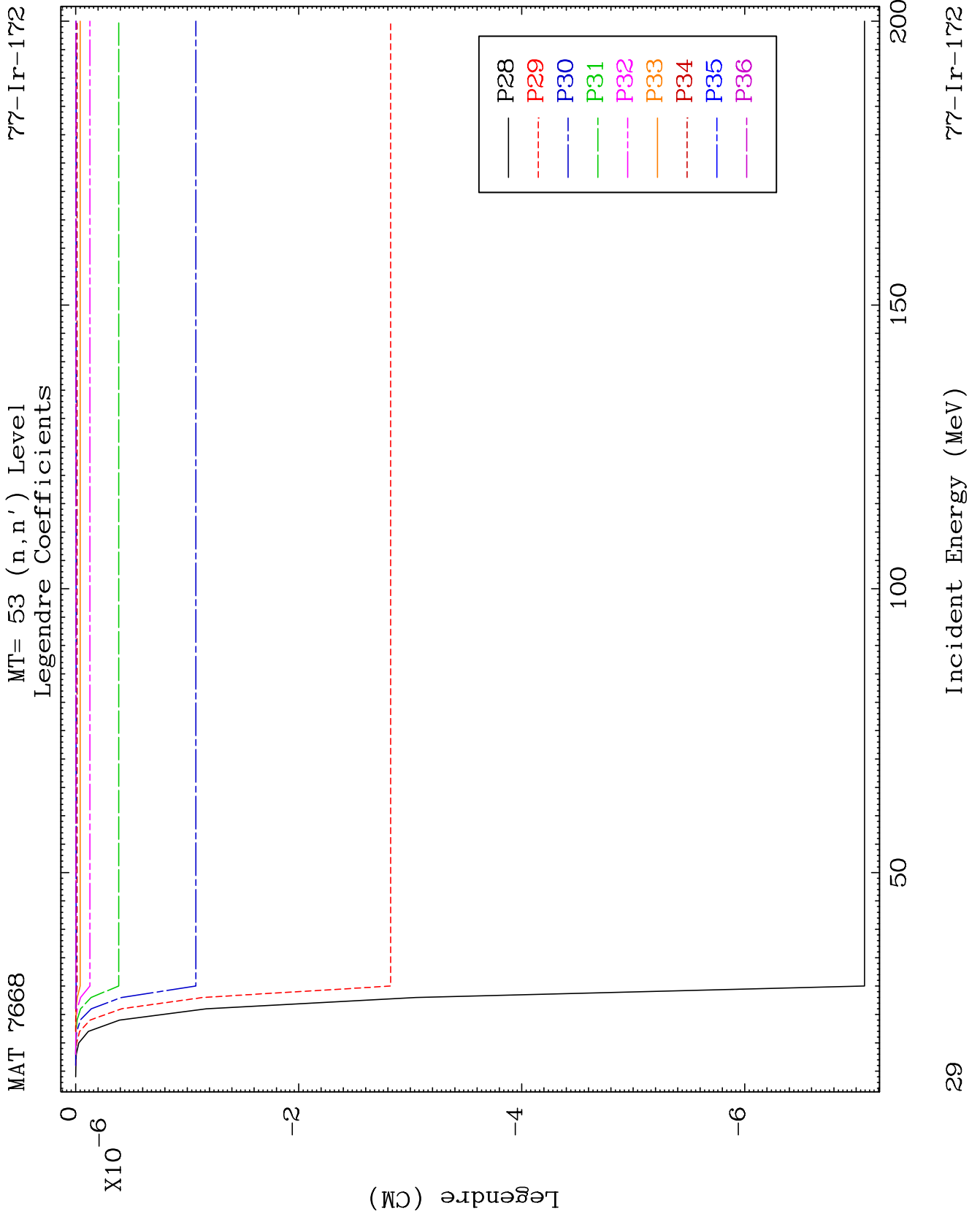
77-Ir-172



28

Incident Energy (MeV)

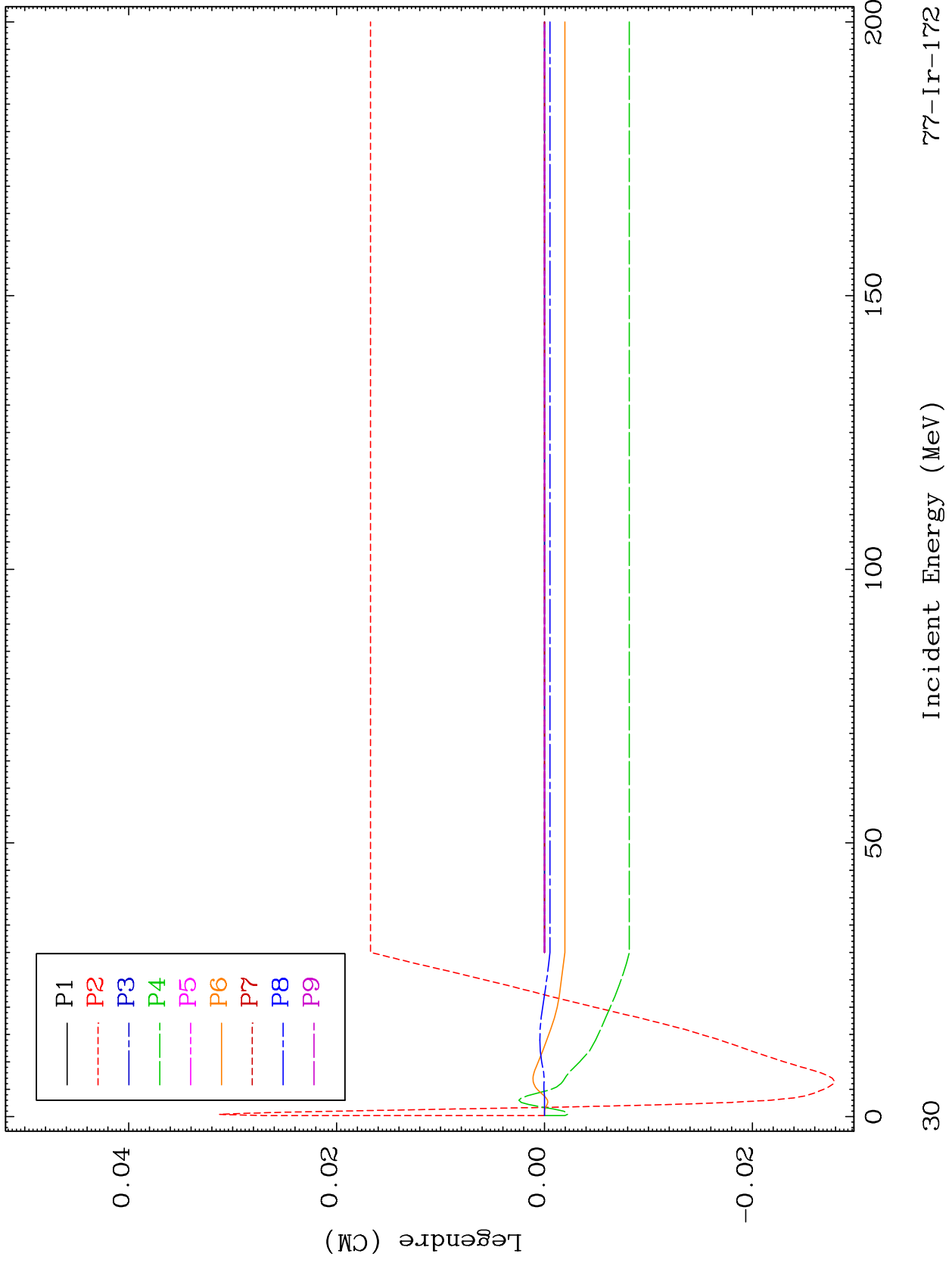
77-Ir-172



MAT 7668

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

77-Ir-172

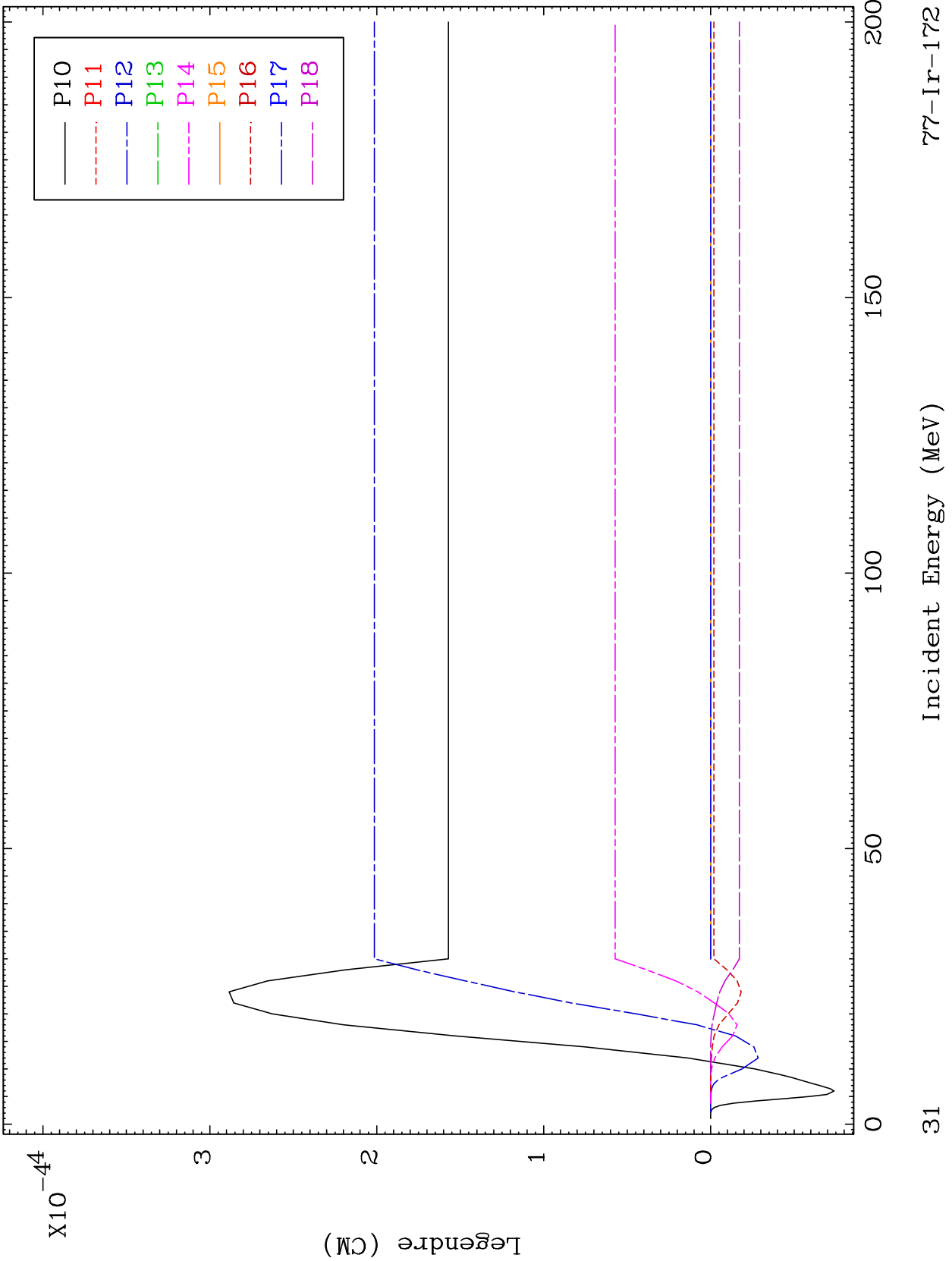


77-Ir-172

MAT 7668

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

77-Ir-172



31

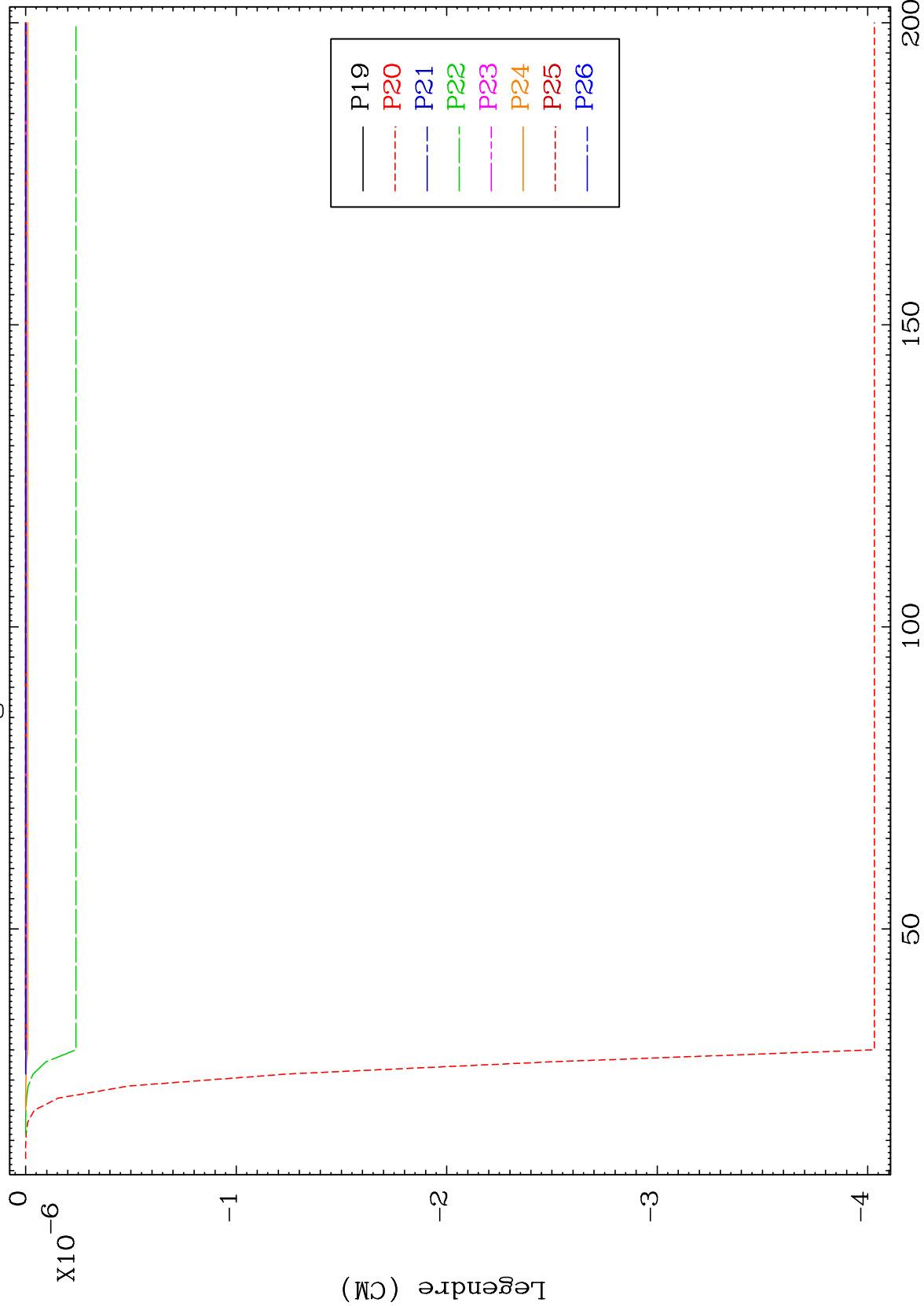
Incident Energy (MeV)

77-Ir-172

MAT 7668

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

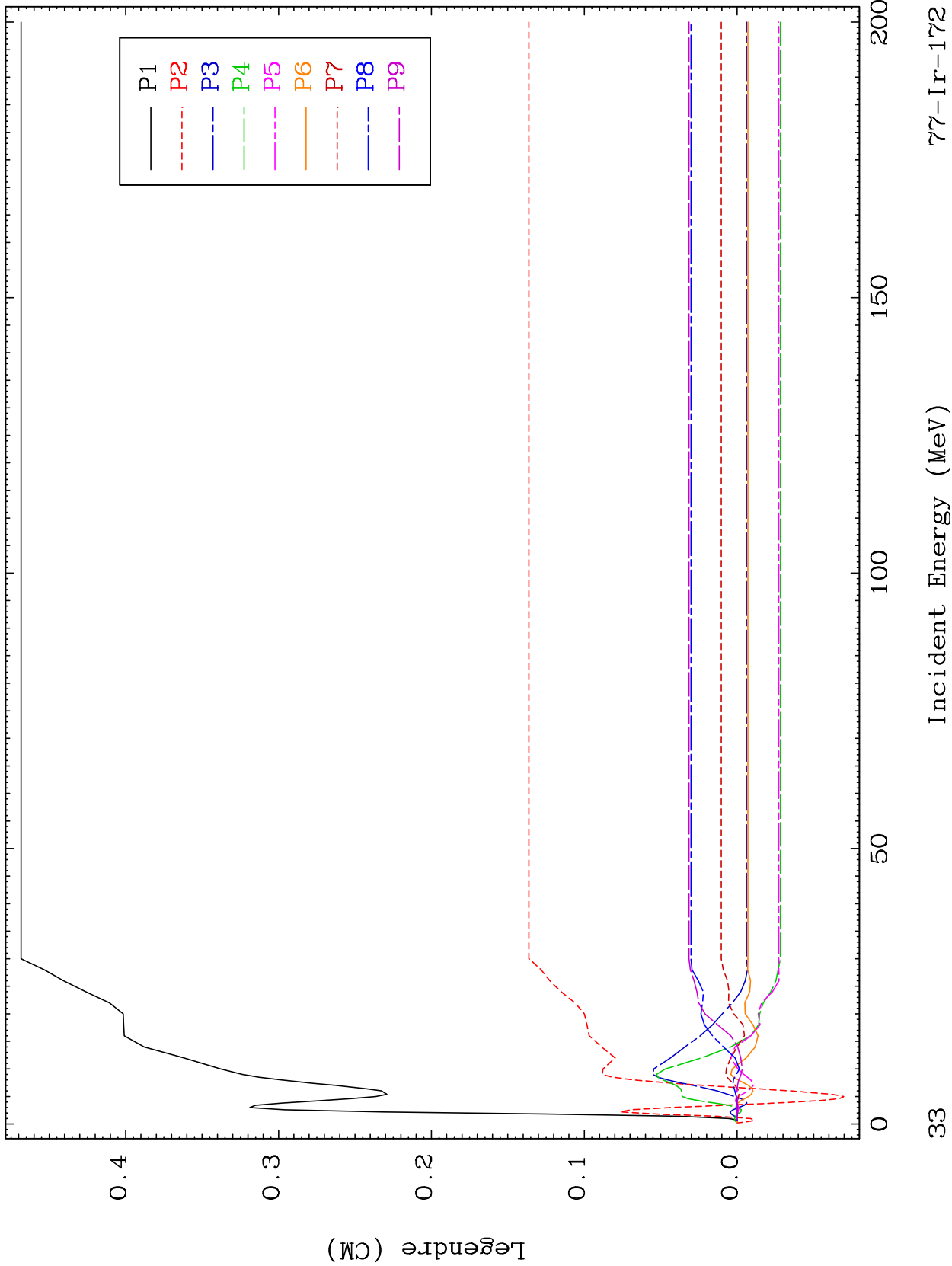
77-Ir-172



32

Incident Energy (MeV)

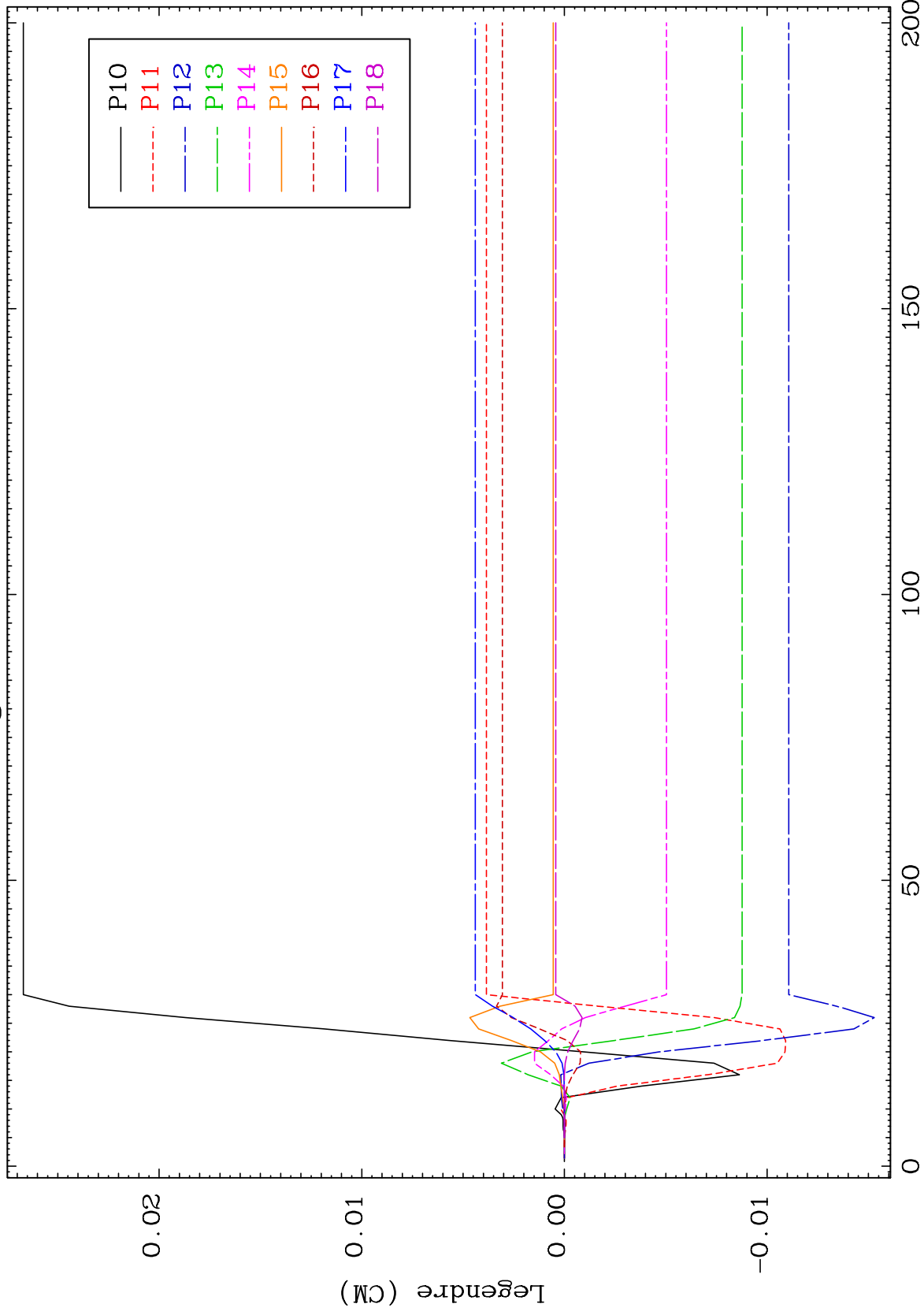
77-Ir-172



MAT 7668

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

77-Ir-172



34

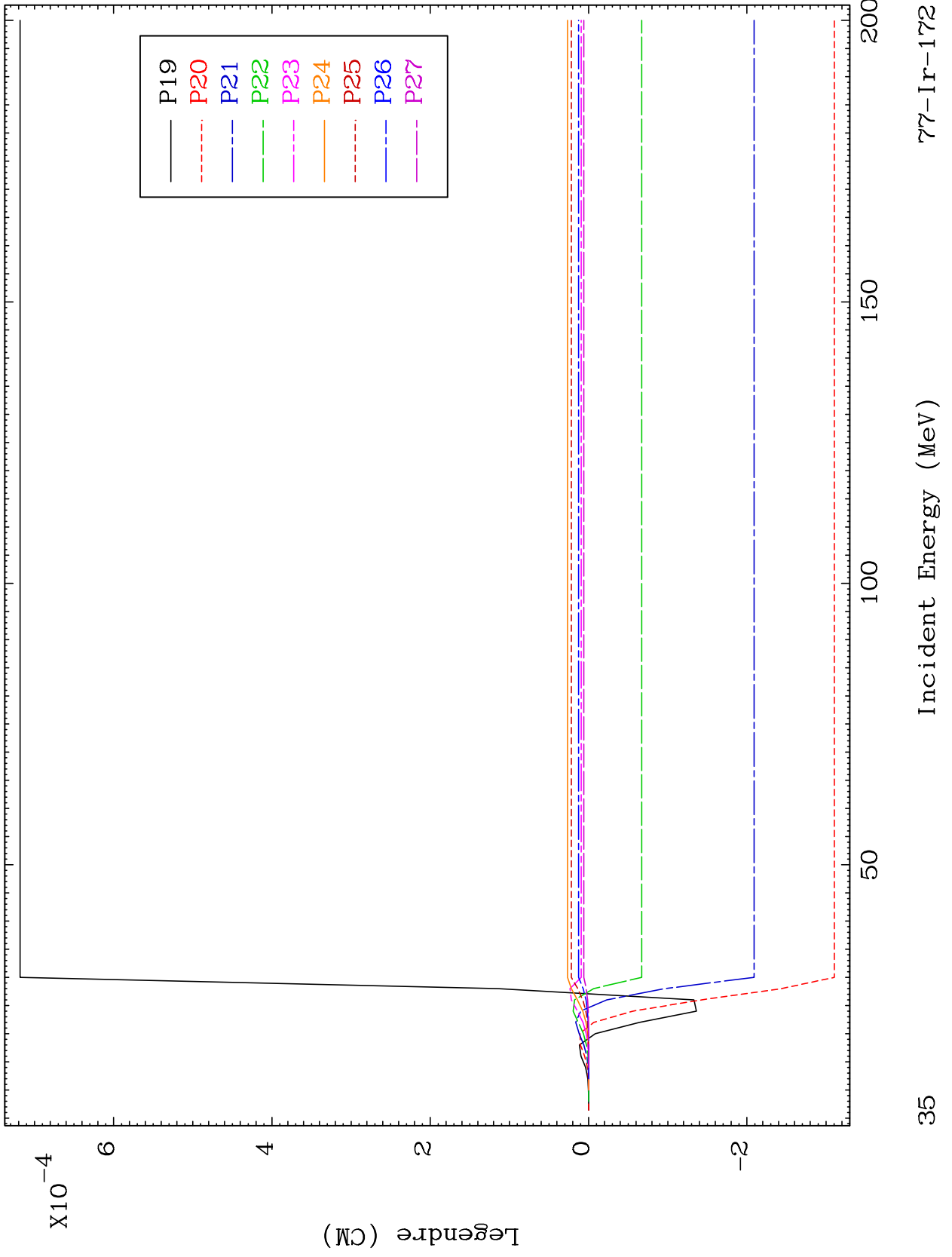
Incident Energy (MeV)

77-Ir-172

MAT 7668

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

77-Ir-172



35

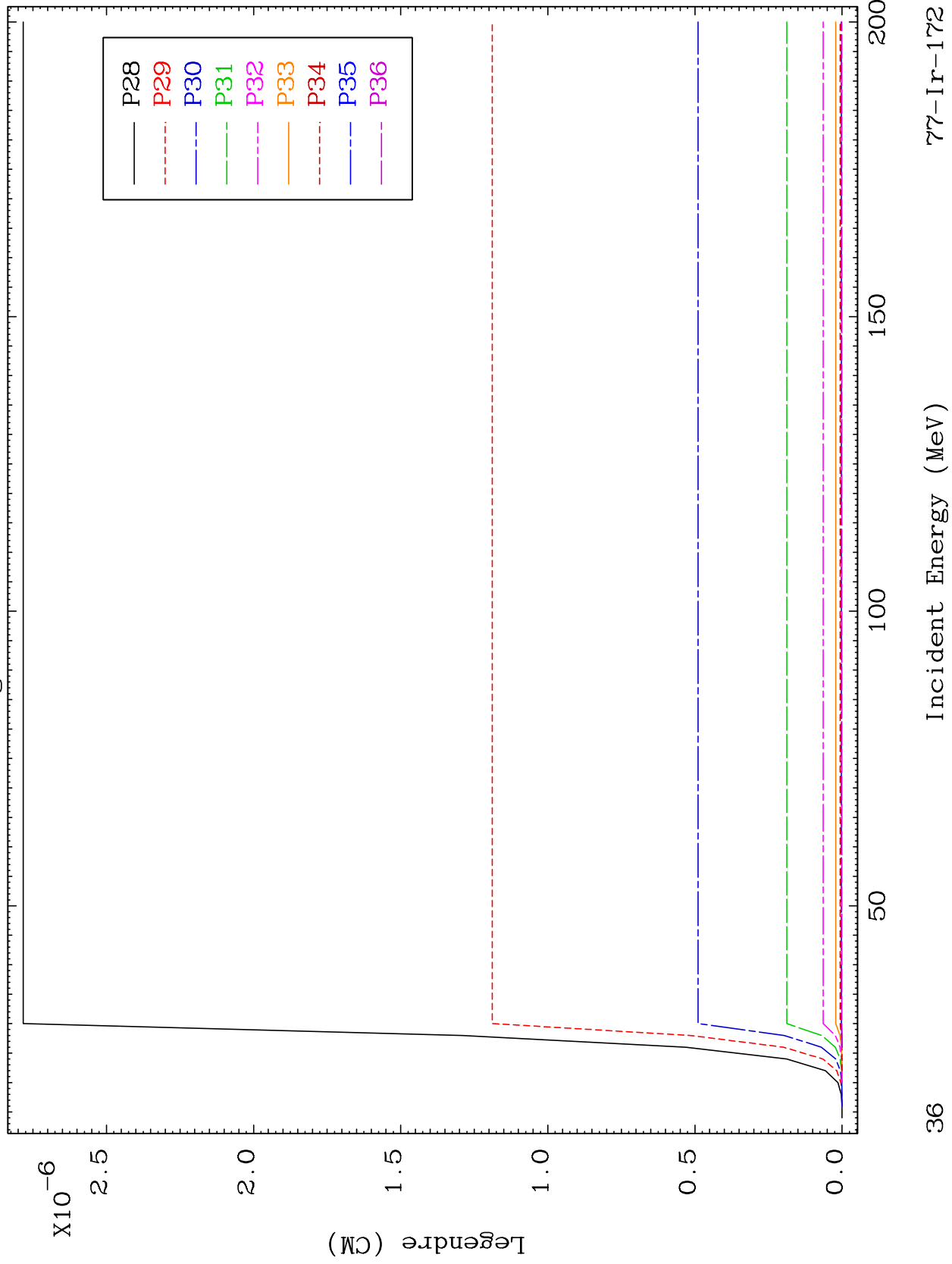
Incident Energy (MeV)

77-Ir-172

MAT 7668

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

77-Ir-172



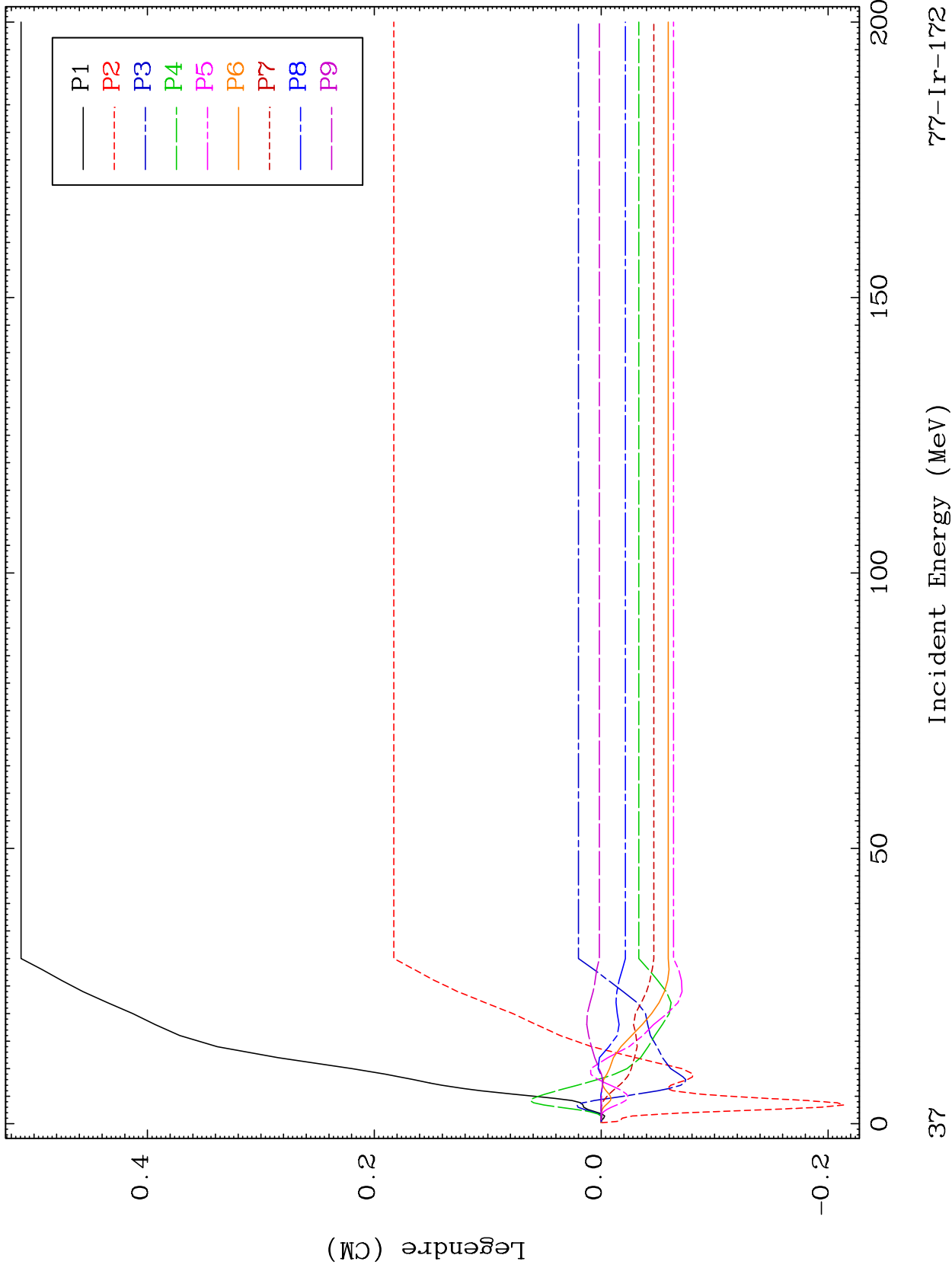
36

77-Ir-172

MAT 7668

MT= 56 (n,n') Level
Legendre Coefficients

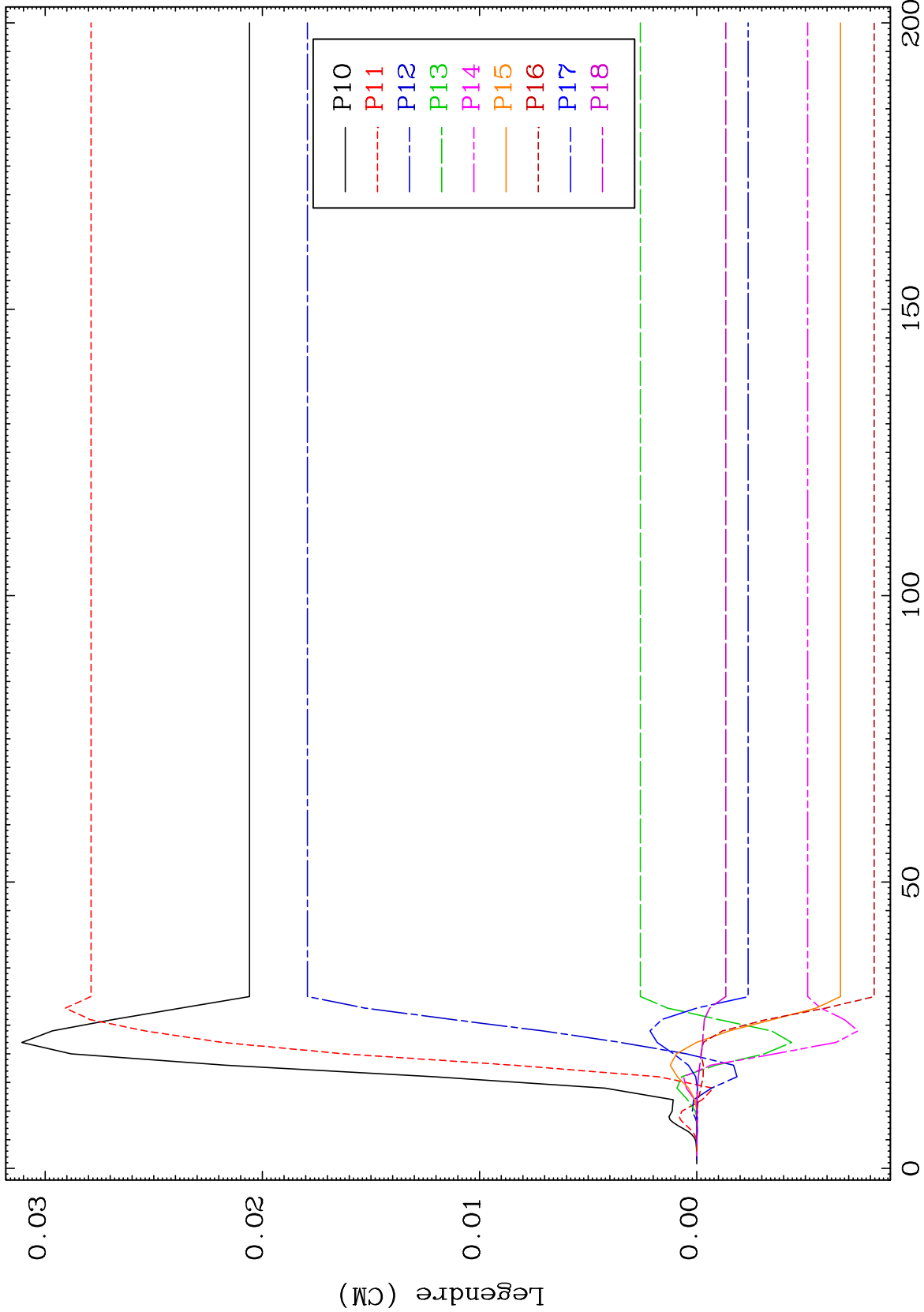
77-Ir-172



MAT 7668

MT= 56 (n,n') Level
Legendre Coefficients

77-Ir-172



38

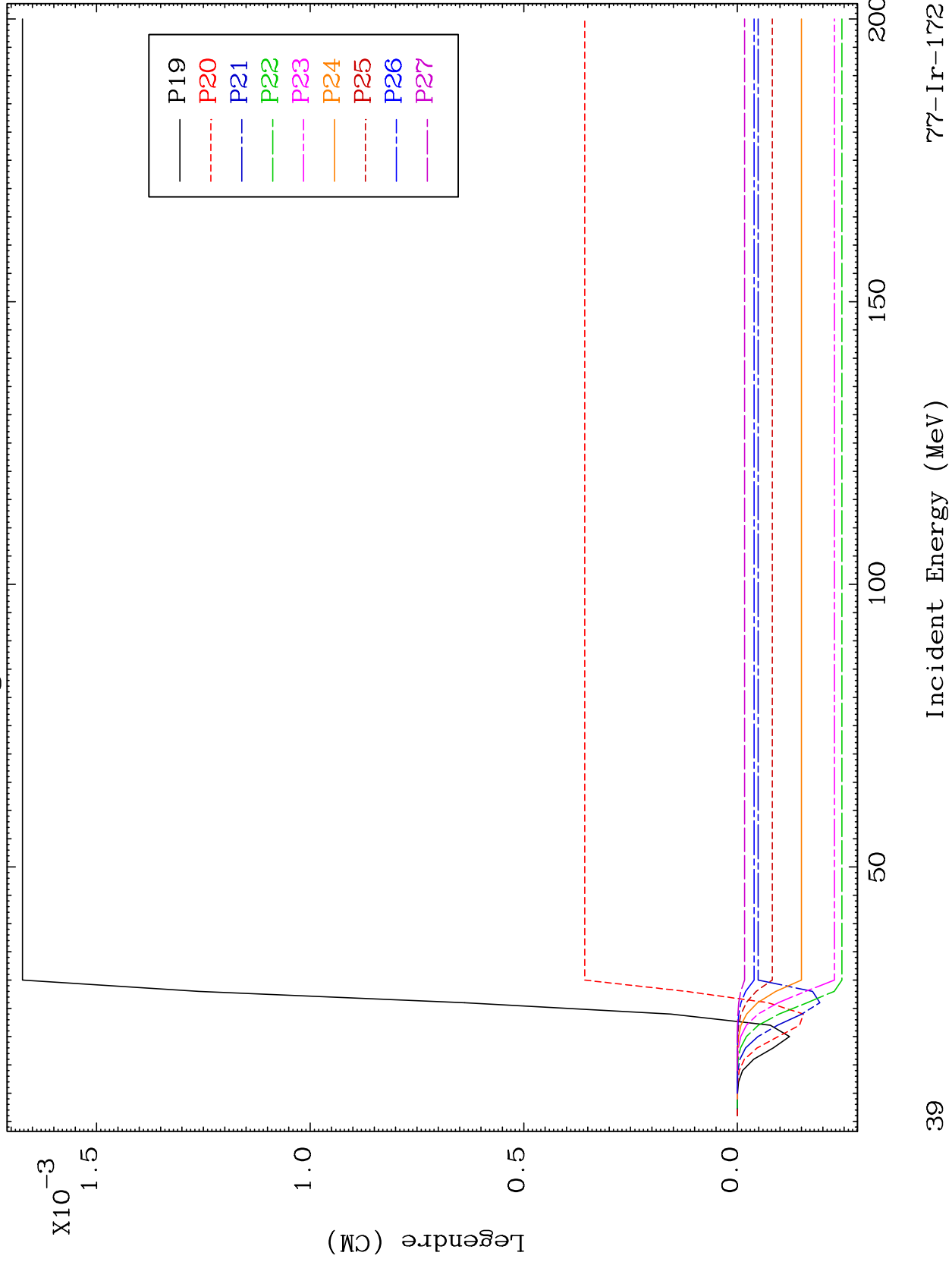
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 56 (n,n') Level
Legendre Coefficients

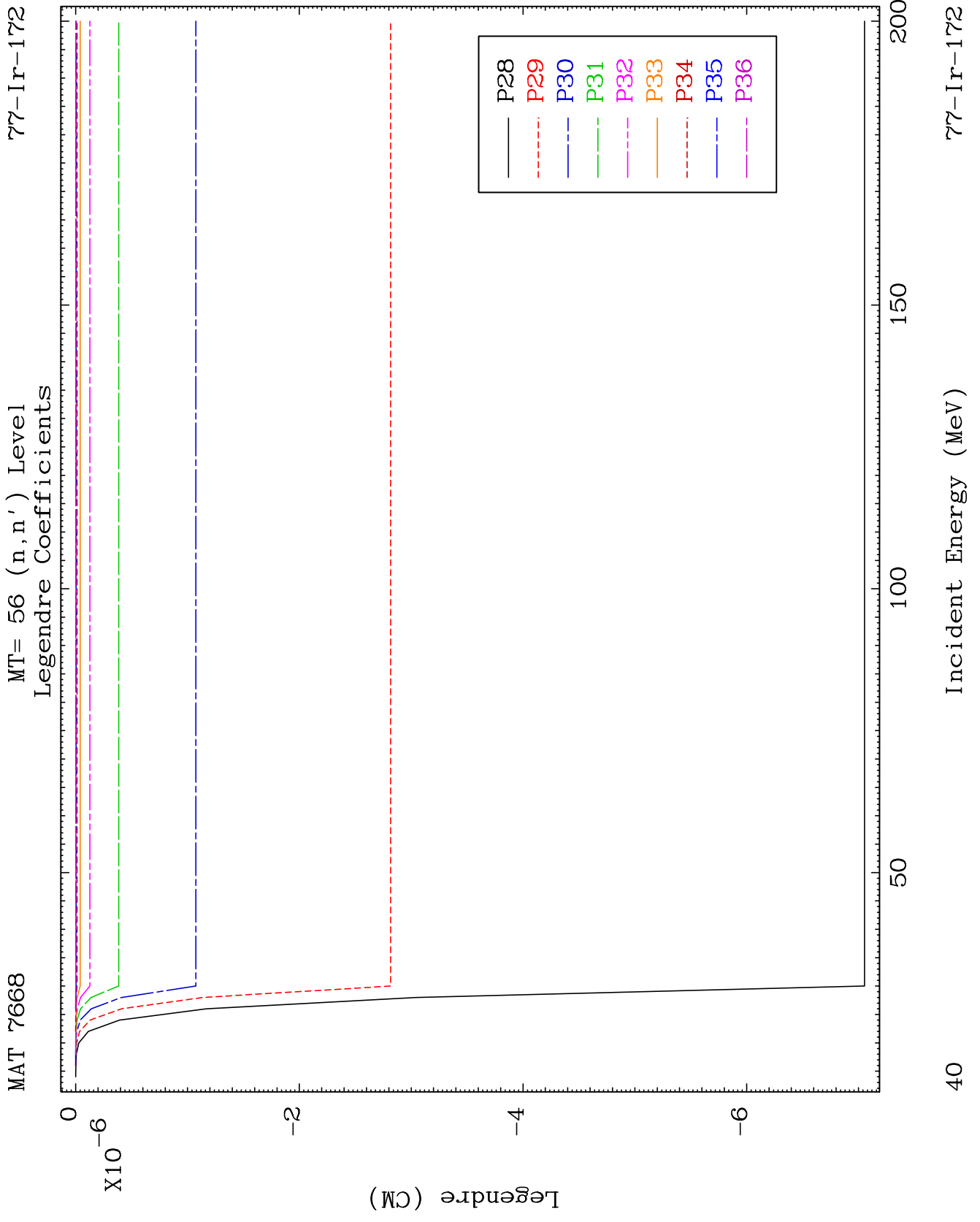
77-Ir-172



39

Incident Energy (MeV)

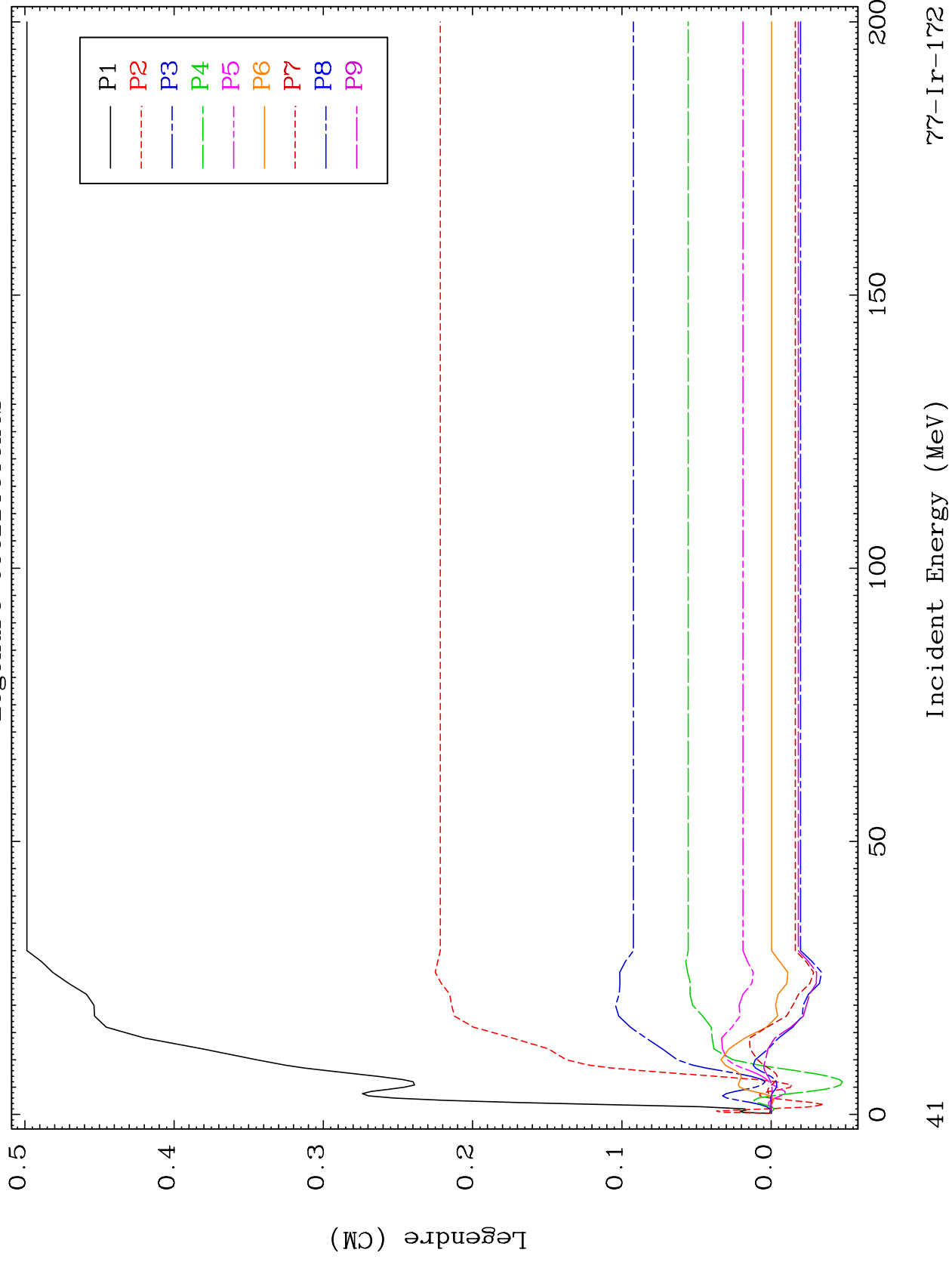
77-Ir-172



MAT 7668

MT= 57 (n,n') Level
Legendre Coefficients

77-Ir-172



77-Ir-172

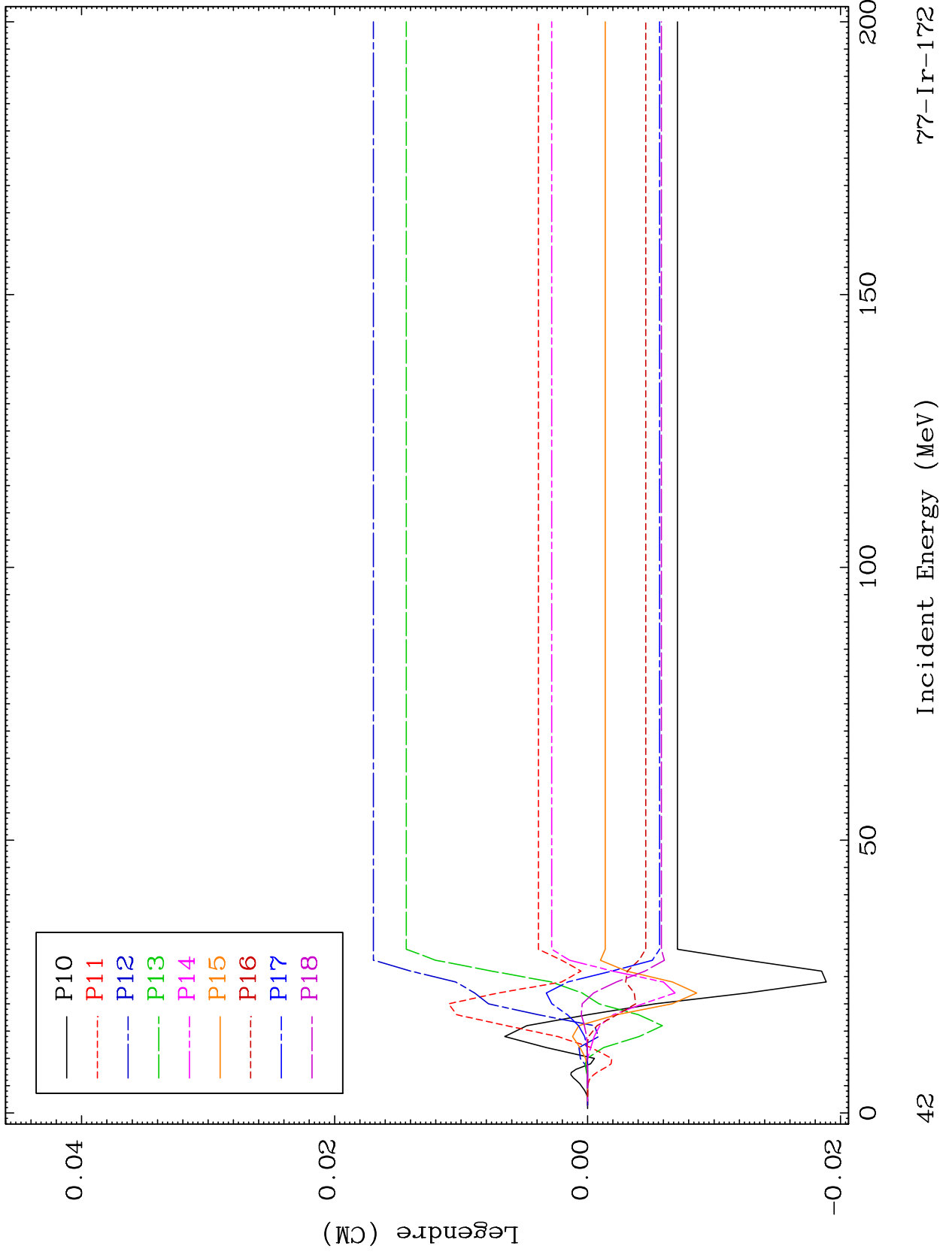
Incident Energy (MeV)

41

MAT 7668

MT= 57 (n,n') Level
Legendre Coefficients

77-Ir-172



77-Ir-172

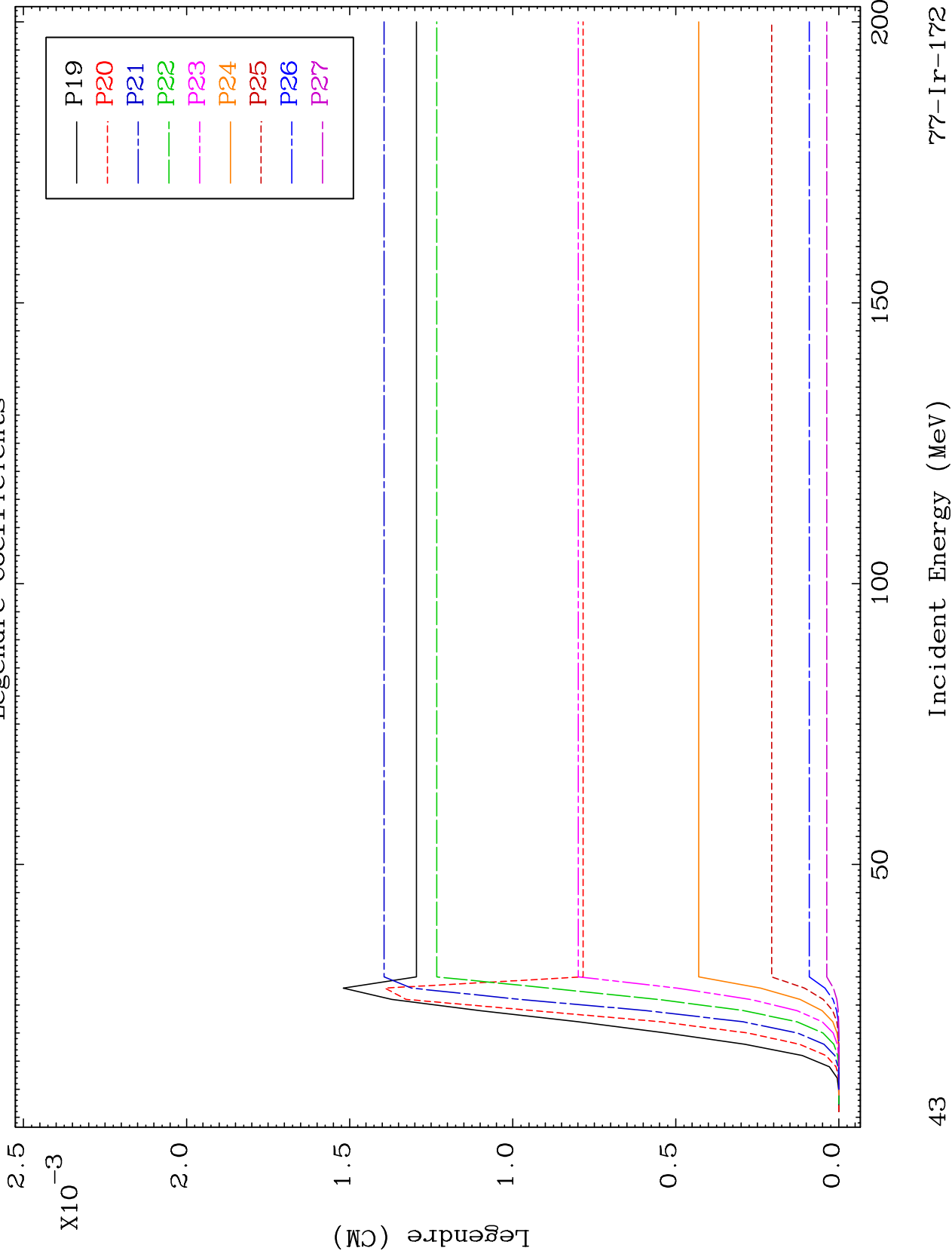
Incident Energy (MeV)

42

MAT 7668

MT= 57 (n,n') Level
Legendre Coefficients

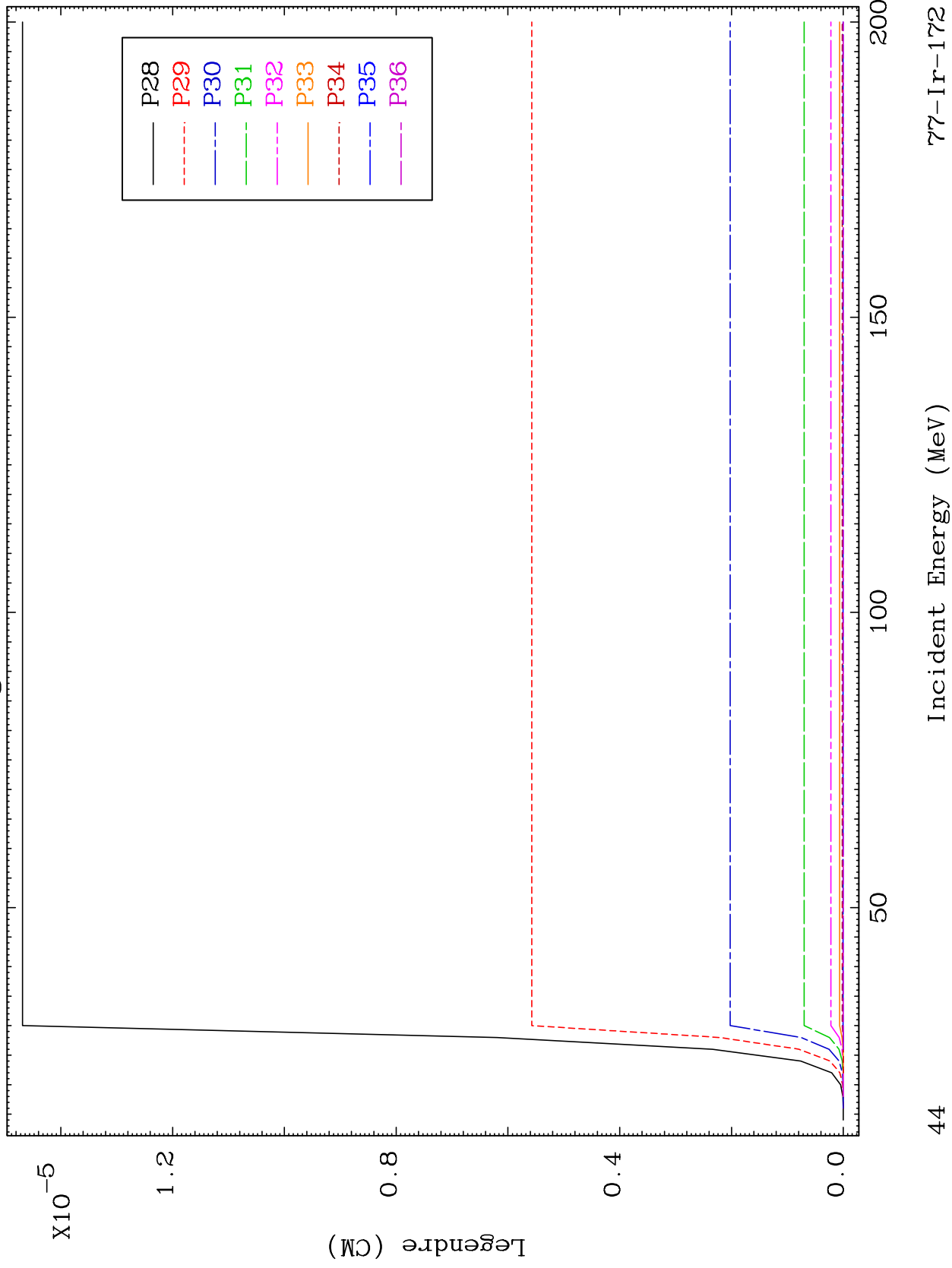
77-Ir-172



MAT 7668

MT= 57 (n,n') Level
Legendre Coefficients

77-Ir-172

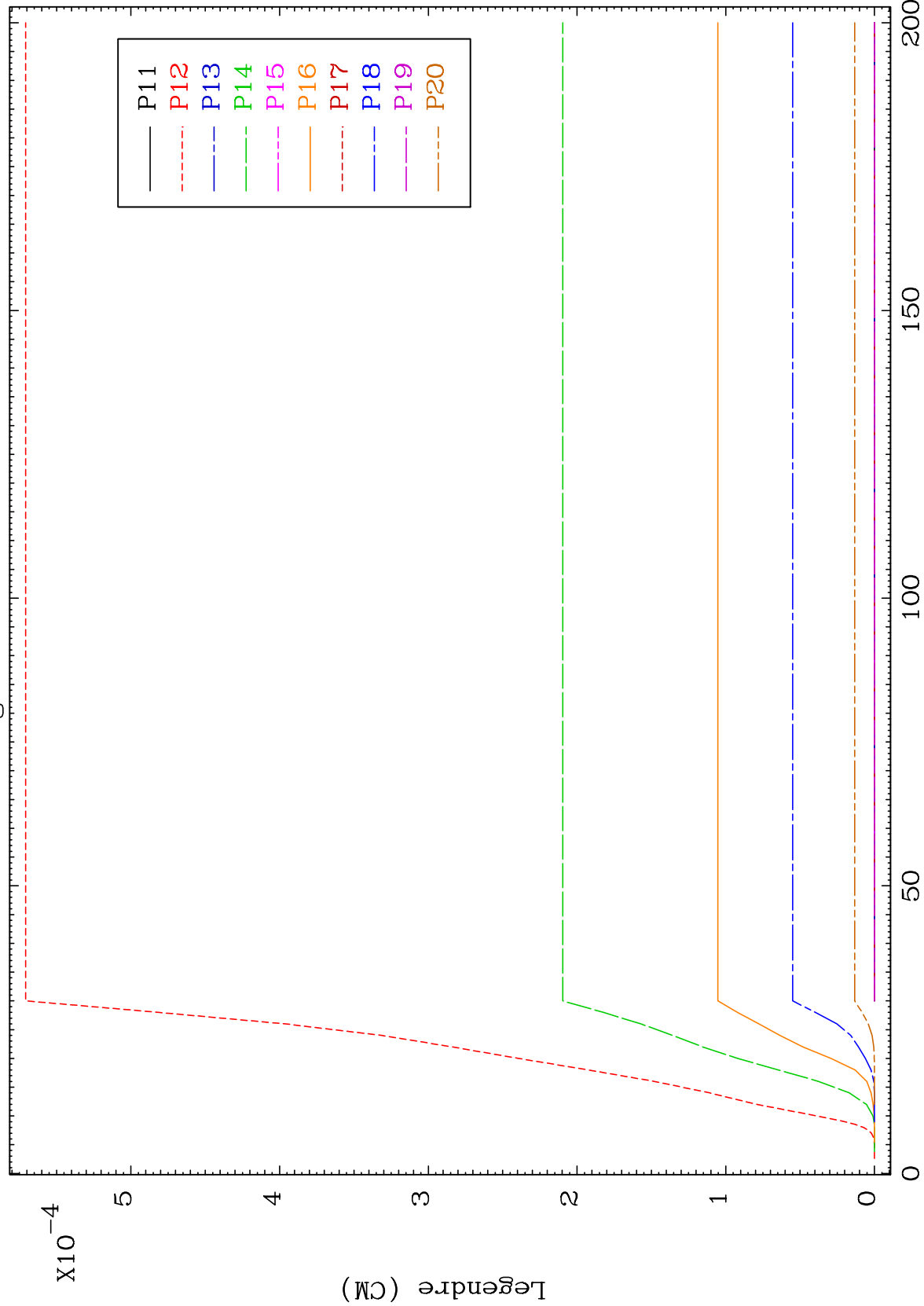


44

MAT 7668

MT= 58 (n,n') Level
Legendre Coefficients

77-Ir-172



46

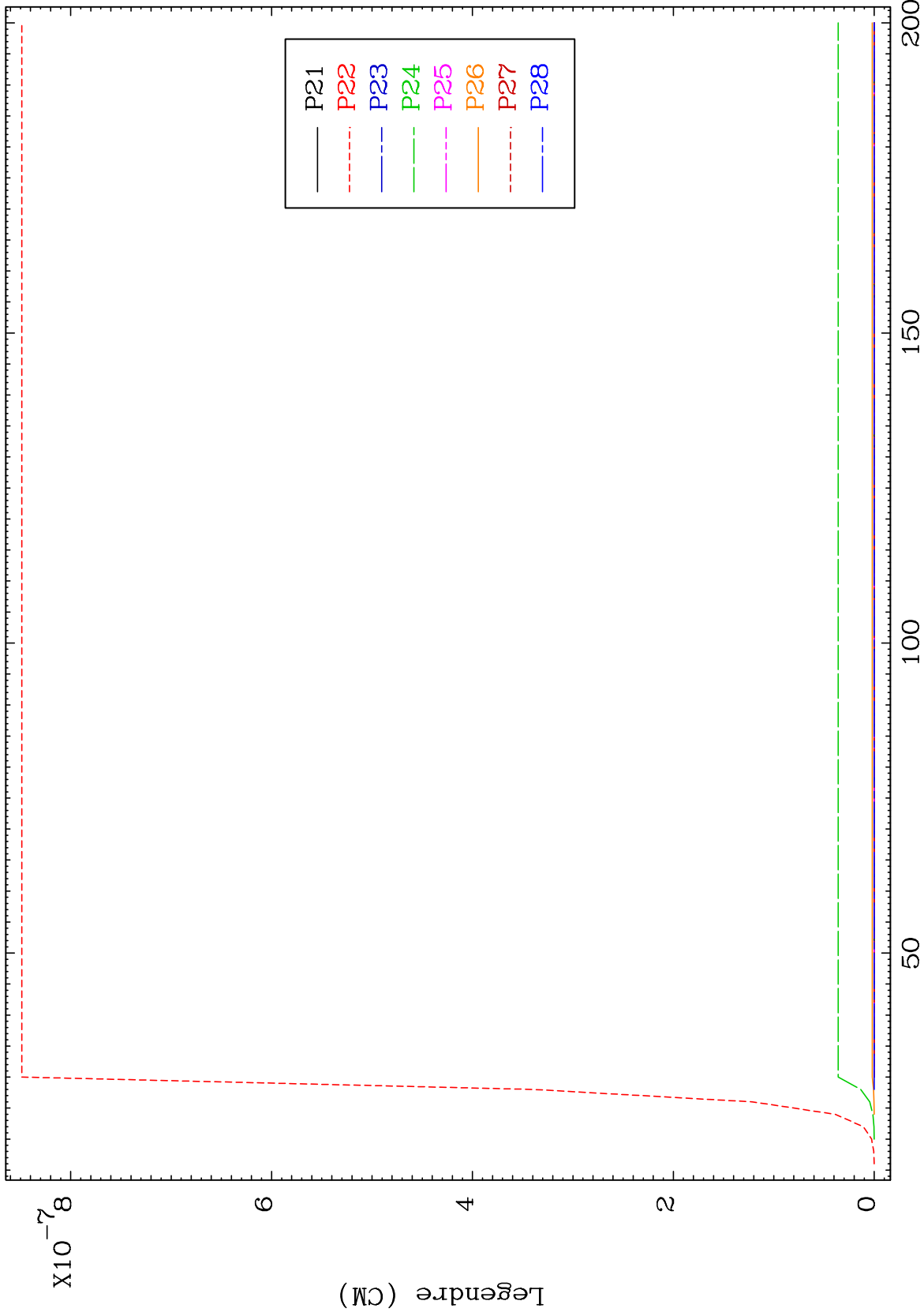
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 58 (n,n') Level
Legendre Coefficients

77-Ir-172



47

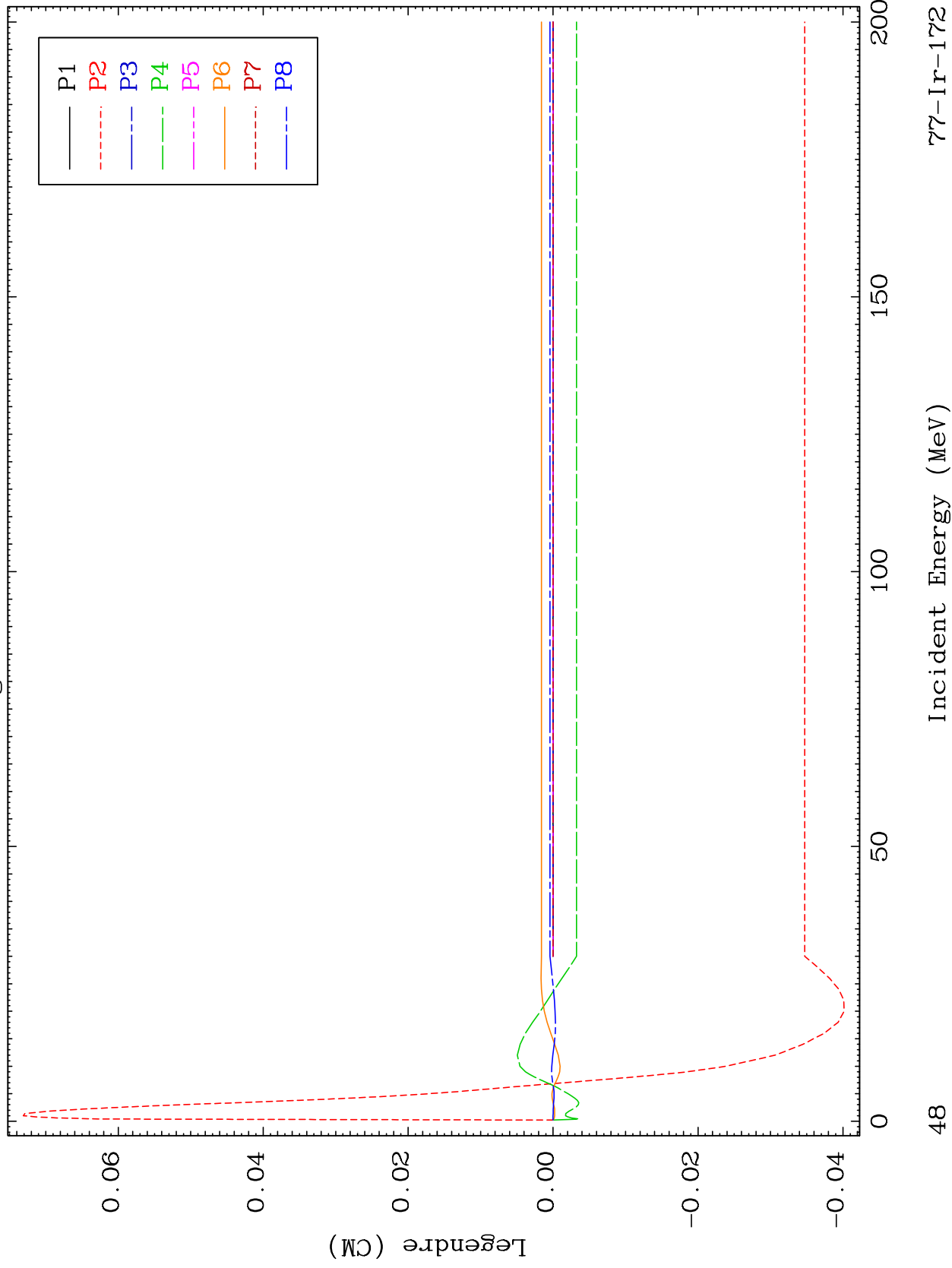
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 59 (n,n') Level
Legendre Coefficients

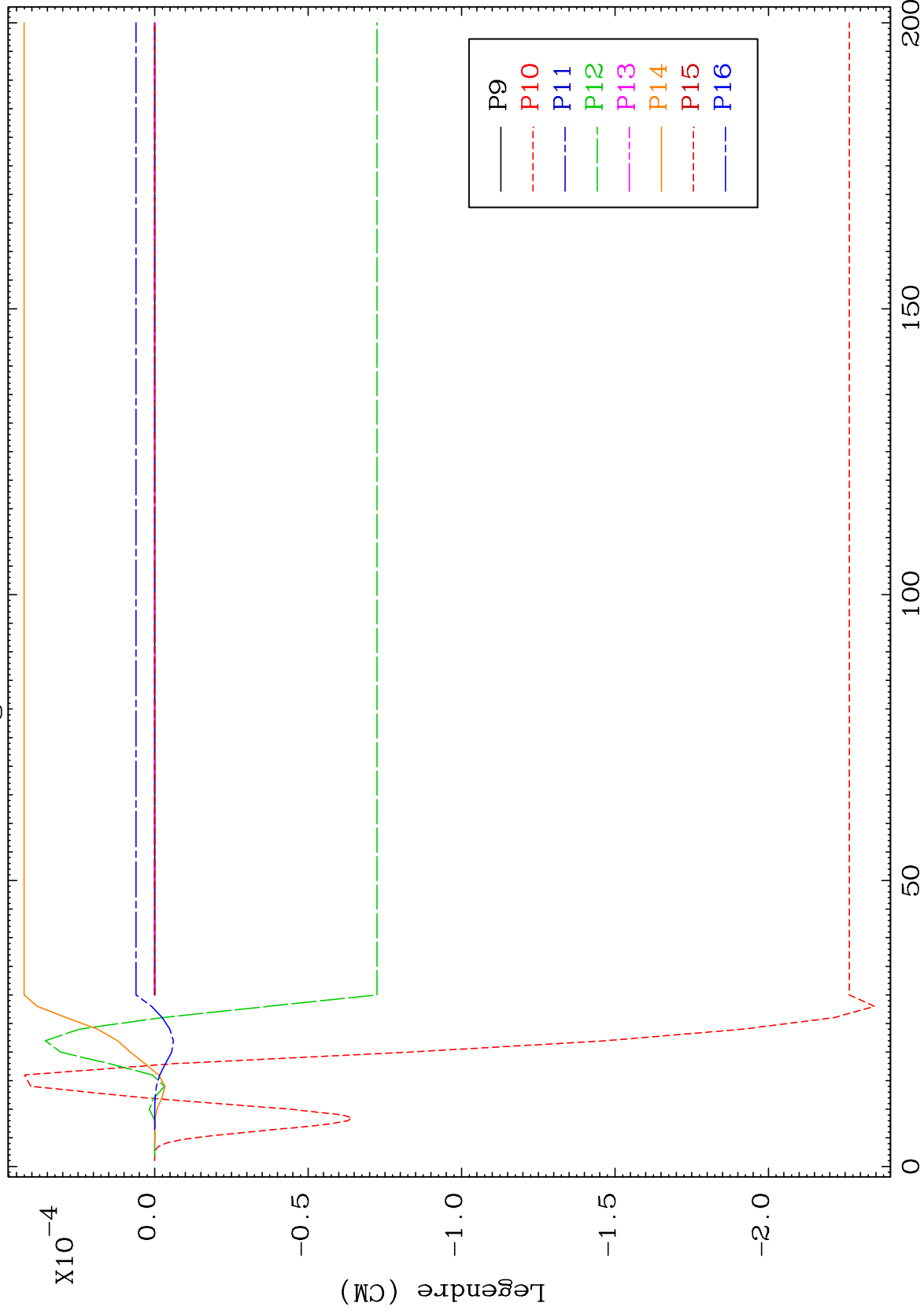
77-Ir-172



MAT 7668

MT= 59 (n,n') Level
Legendre Coefficients

77-Ir-172



49

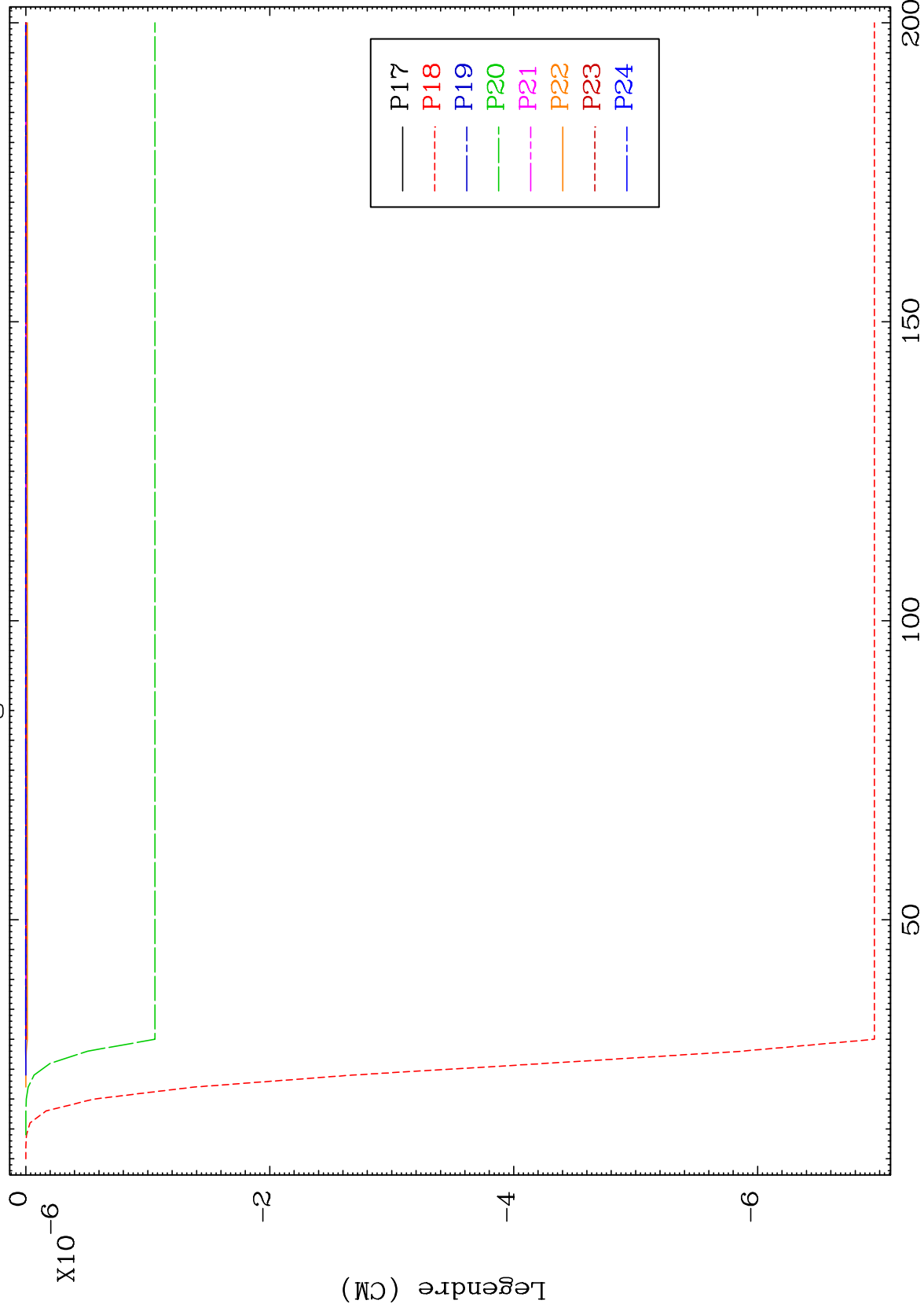
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 59 (n,n') Level
Legendre Coefficients

77-Ir-172



50

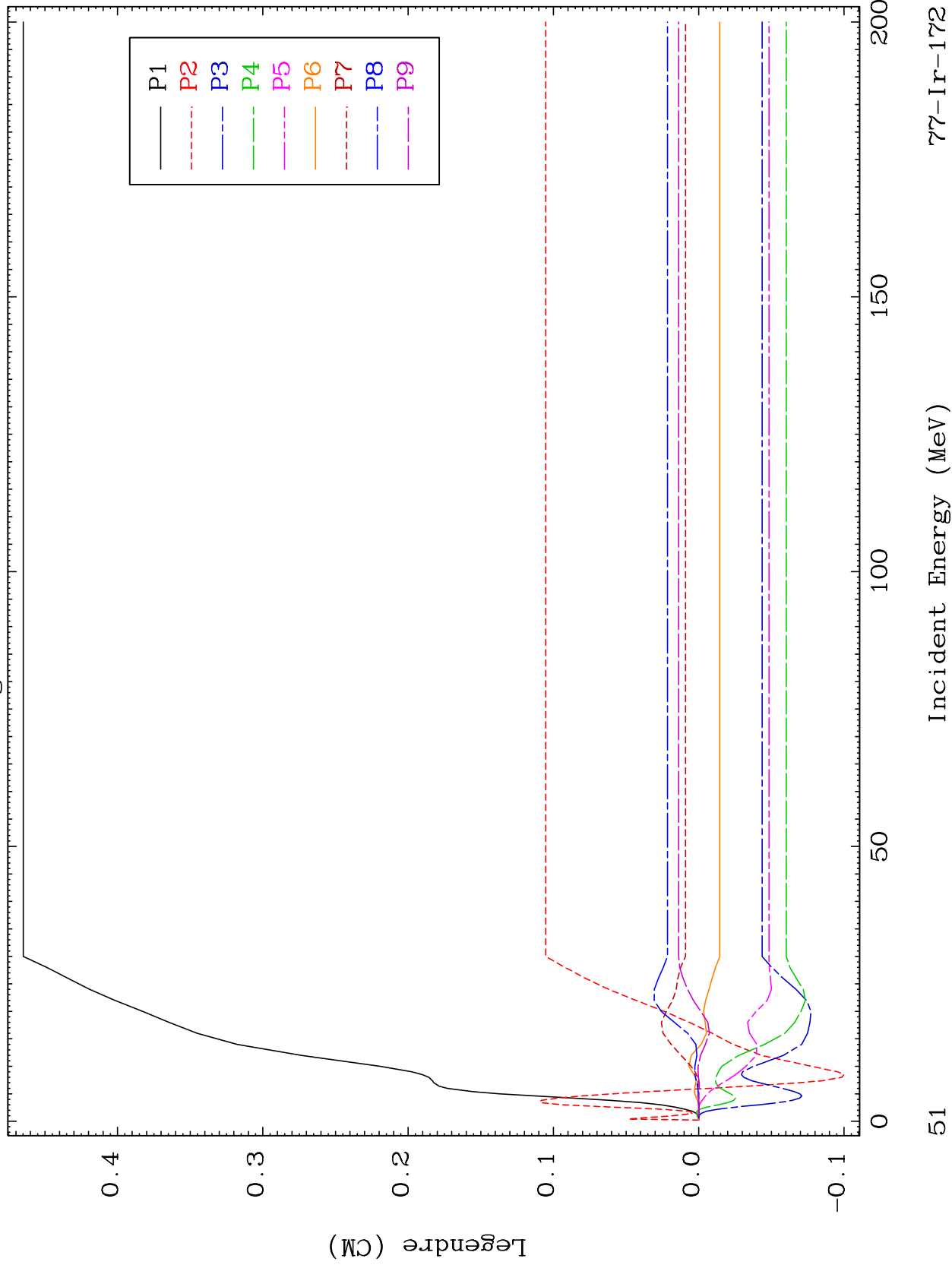
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 60 (n,n') Level
Legendre Coefficients

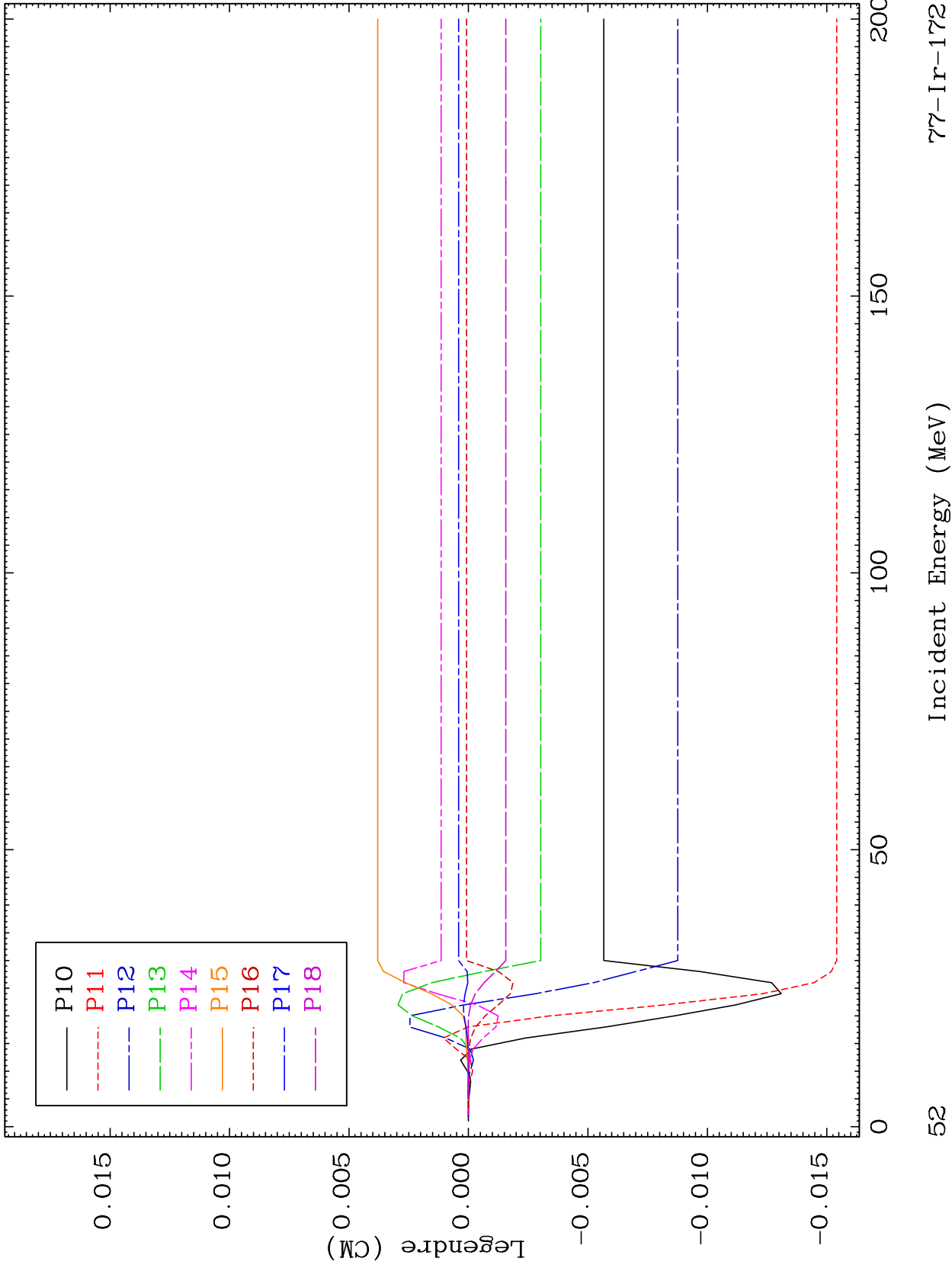
77-Ir-172

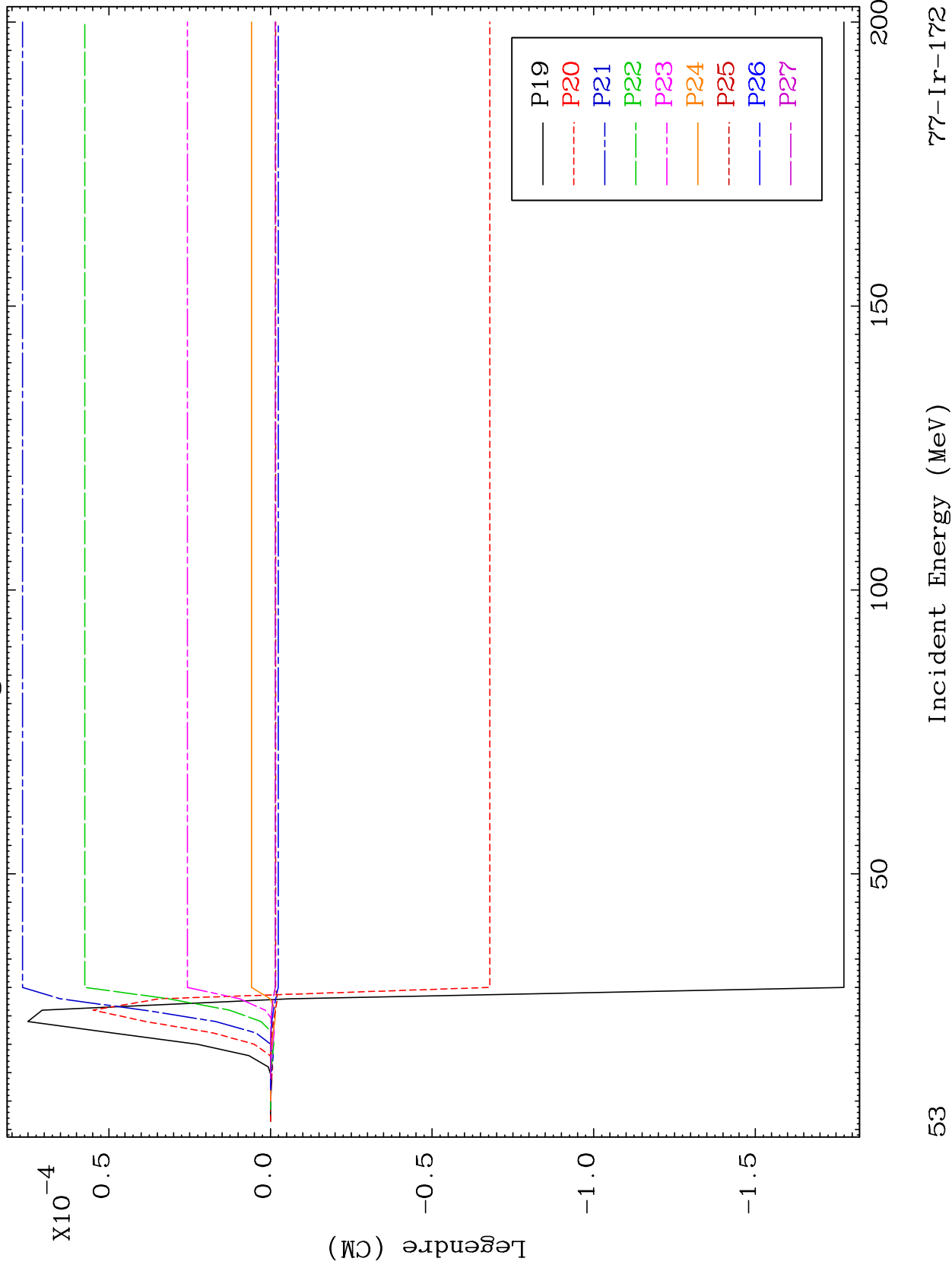


77-Ir-172

Incident Energy (MeV)

51

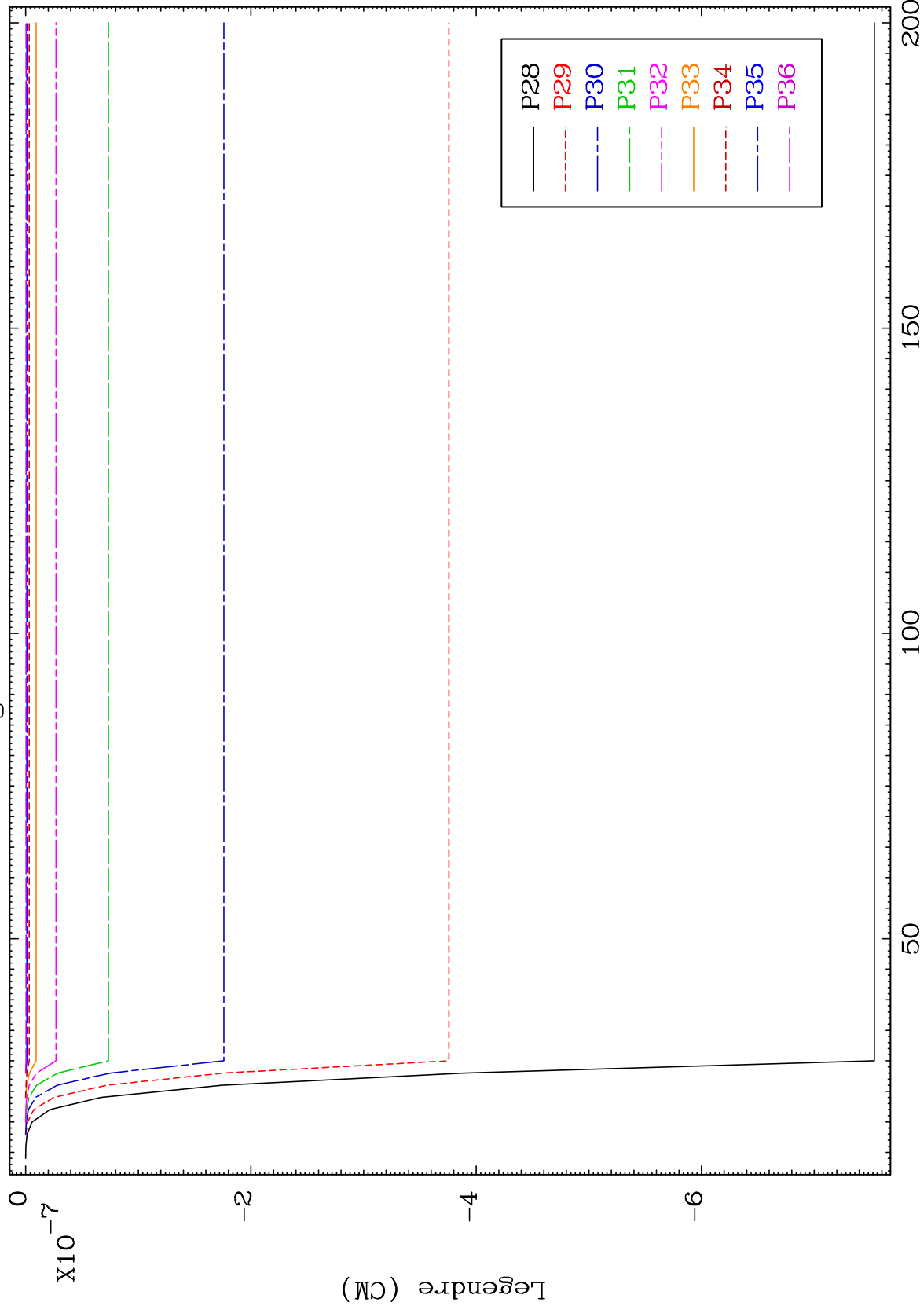




MAT 7668

MT= 60 (n,n') Level
Legendre Coefficients

77-Ir-172



54

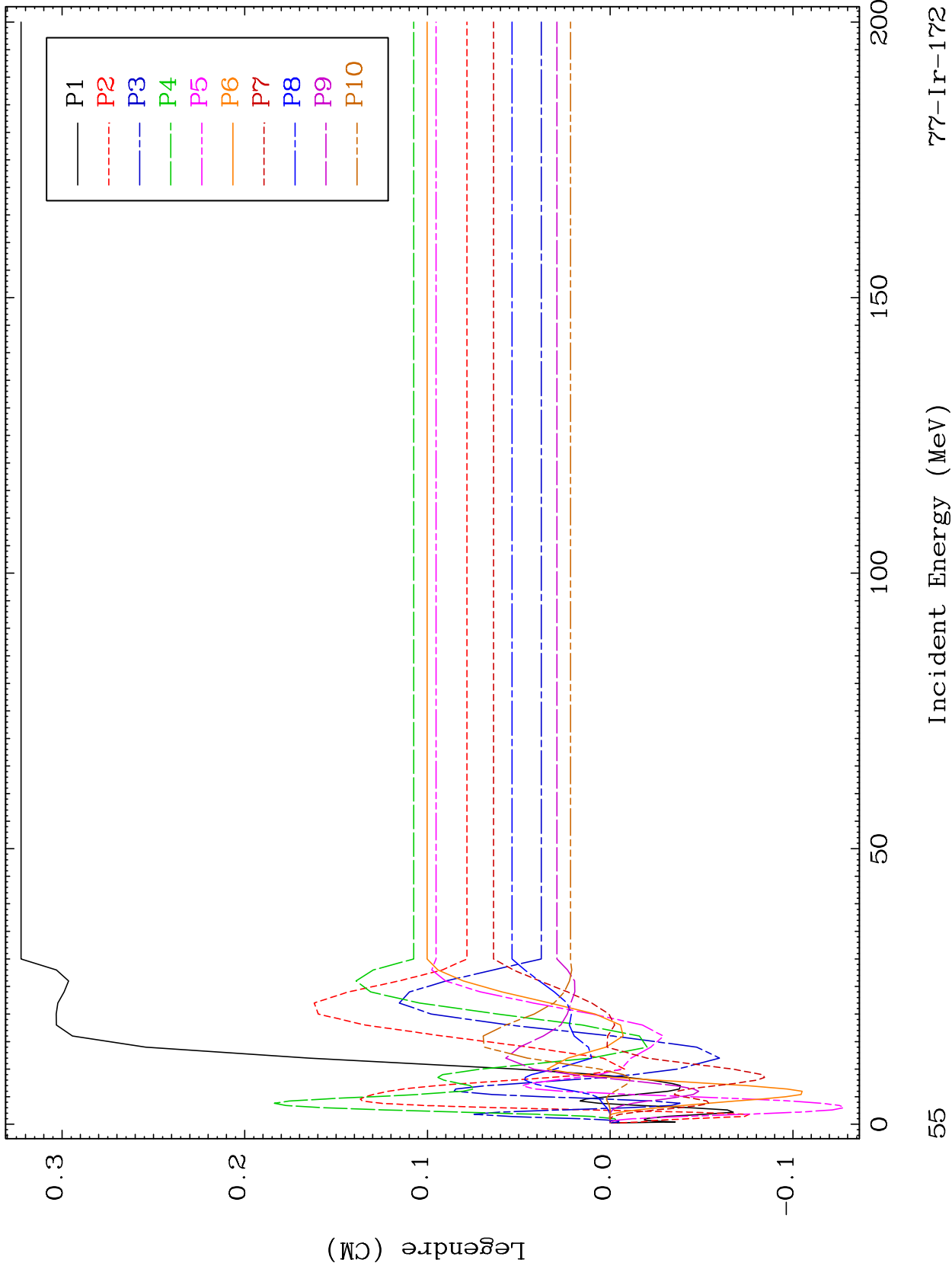
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 61 (n,n') Level
Legendre Coefficients

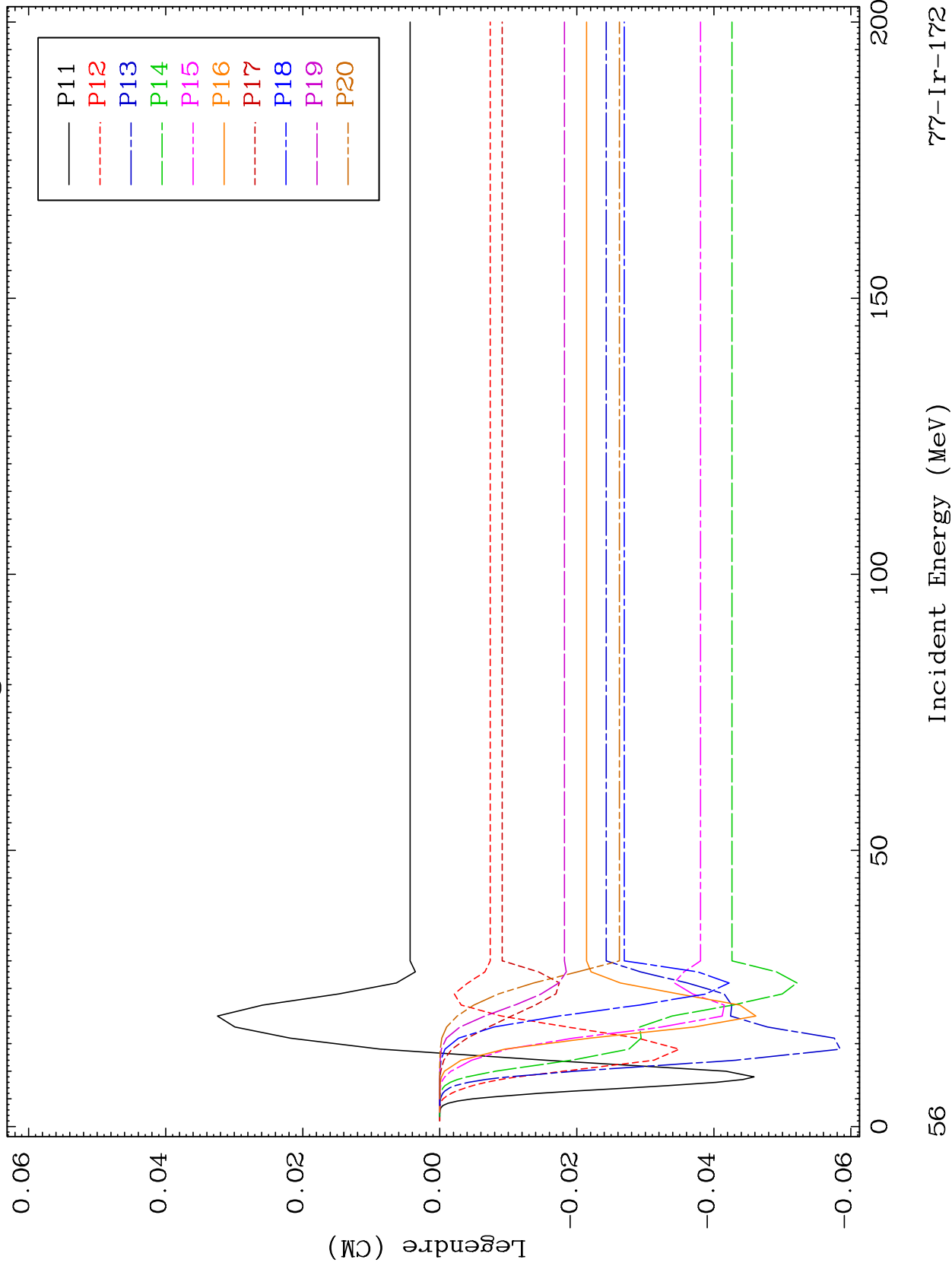
77-Ir-172



MAT 7668

MT= 61 (n,n') Level
Legendre Coefficients

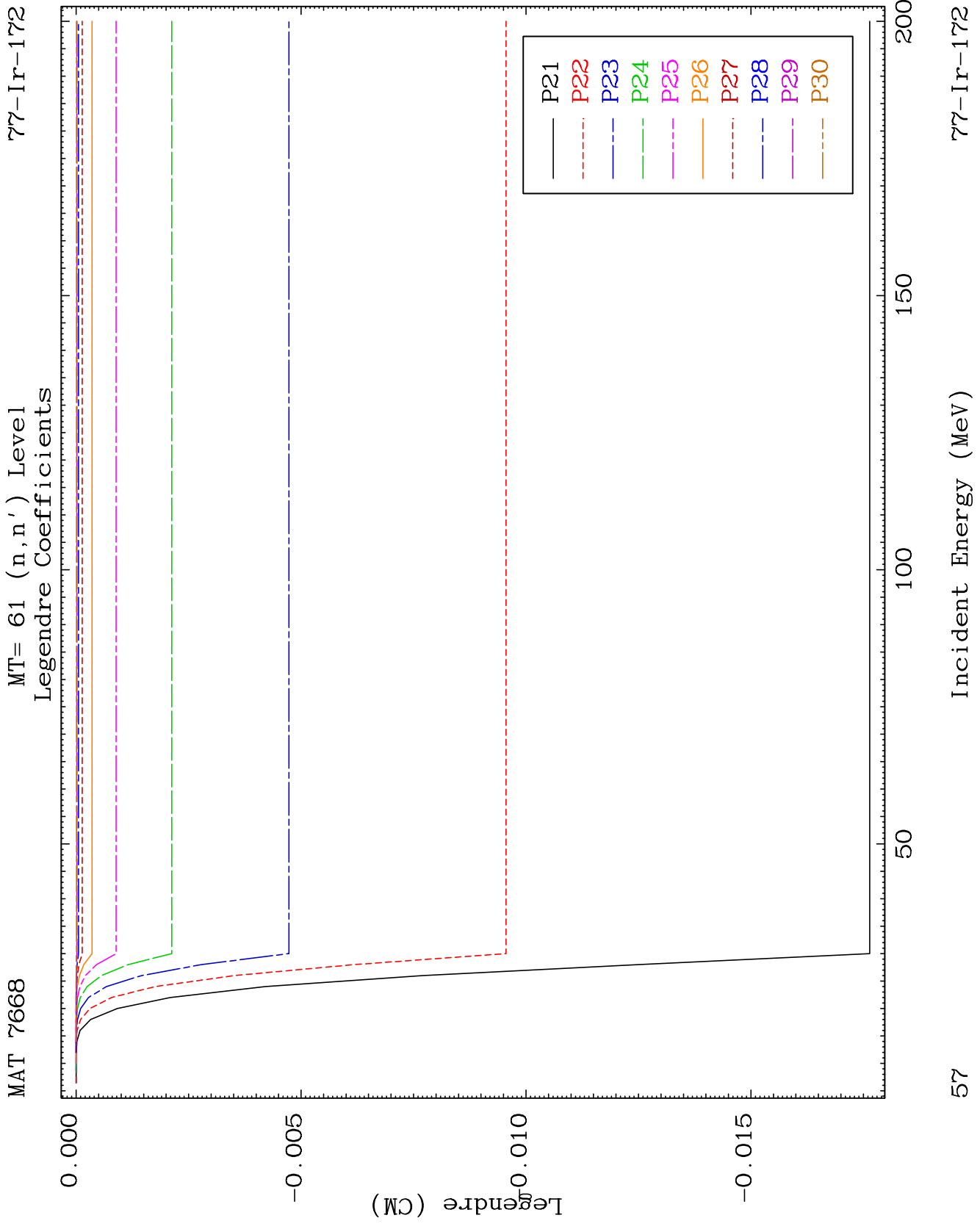
77-Ir-172

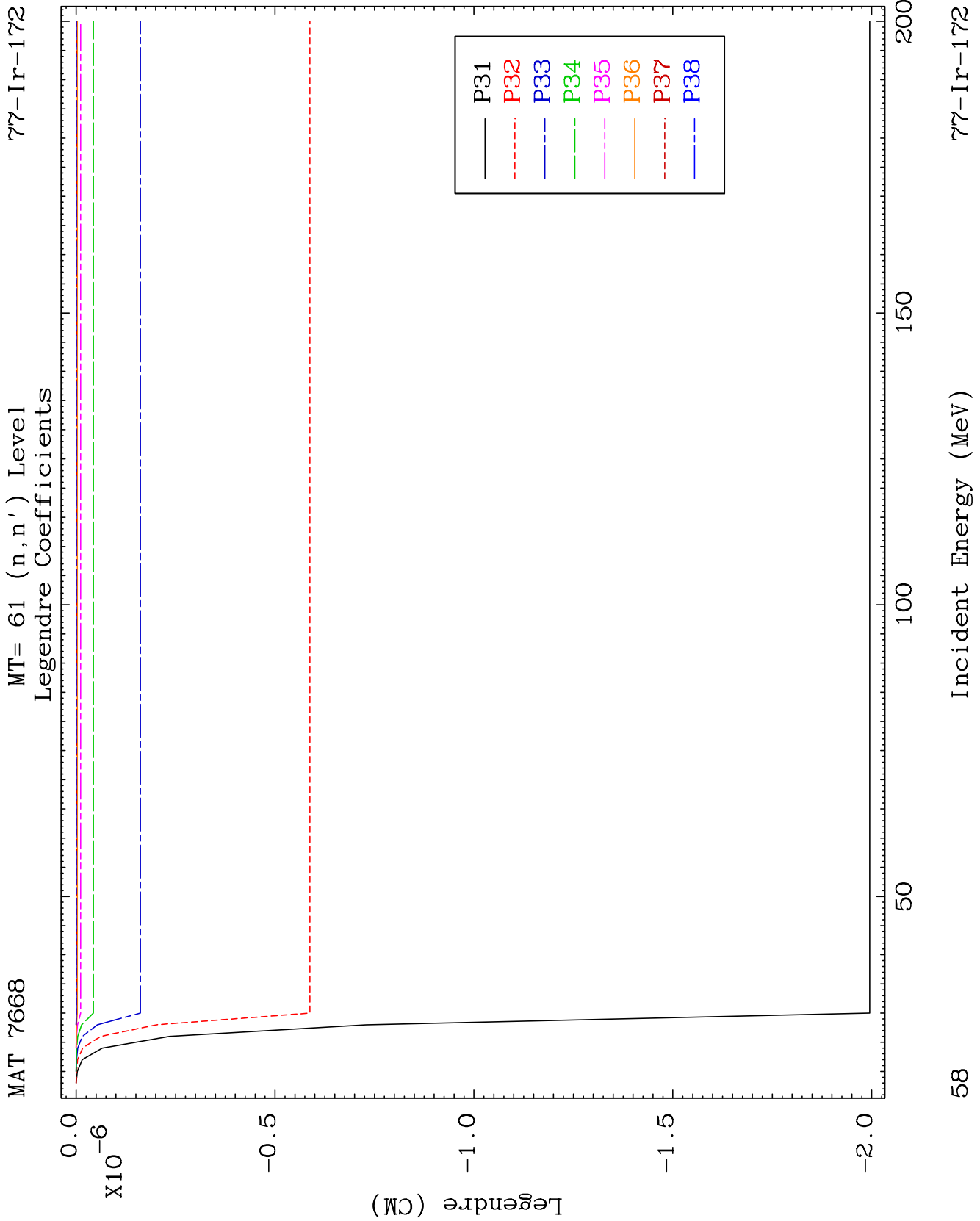


77-Ir-172

Incident Energy (MeV)

56

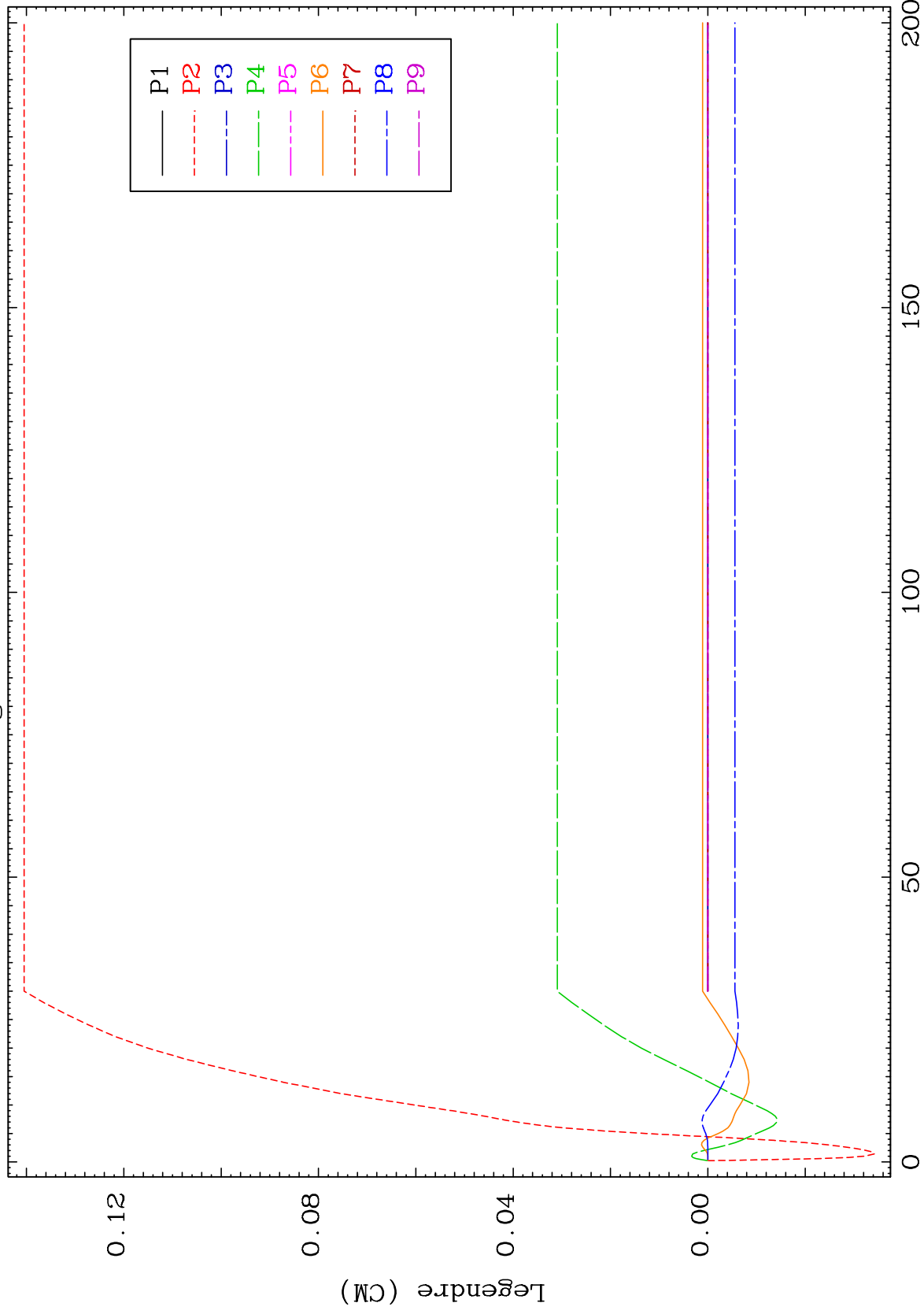




MAT 7668

MT= 62 (n,n') Level
Legendre Coefficients

77-Ir-172



77-Ir-172

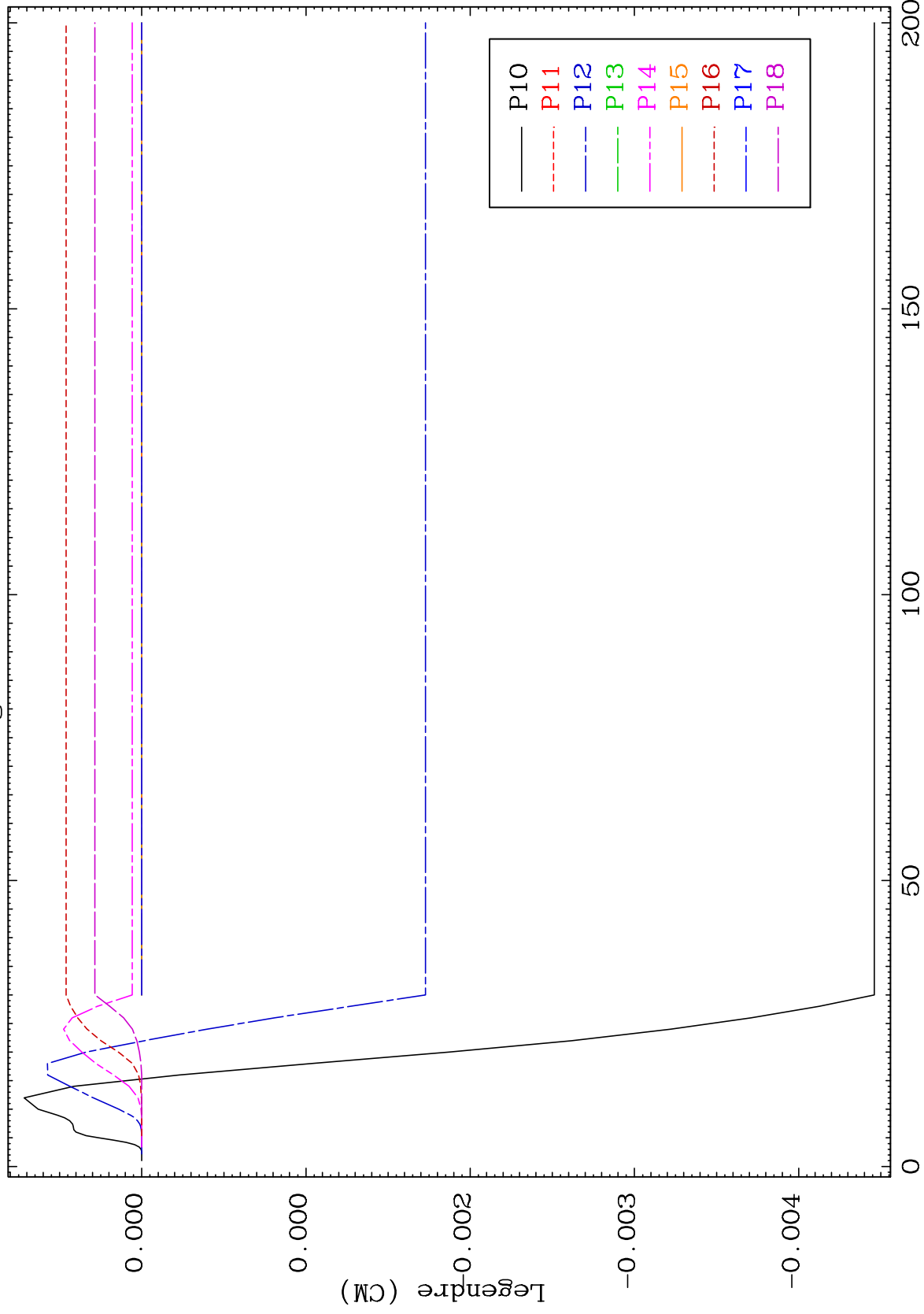
Incident Energy (MeV)

59

MAT 7668

MT= 62 (n,n') Level
Legendre Coefficients

77-Ir-172



60

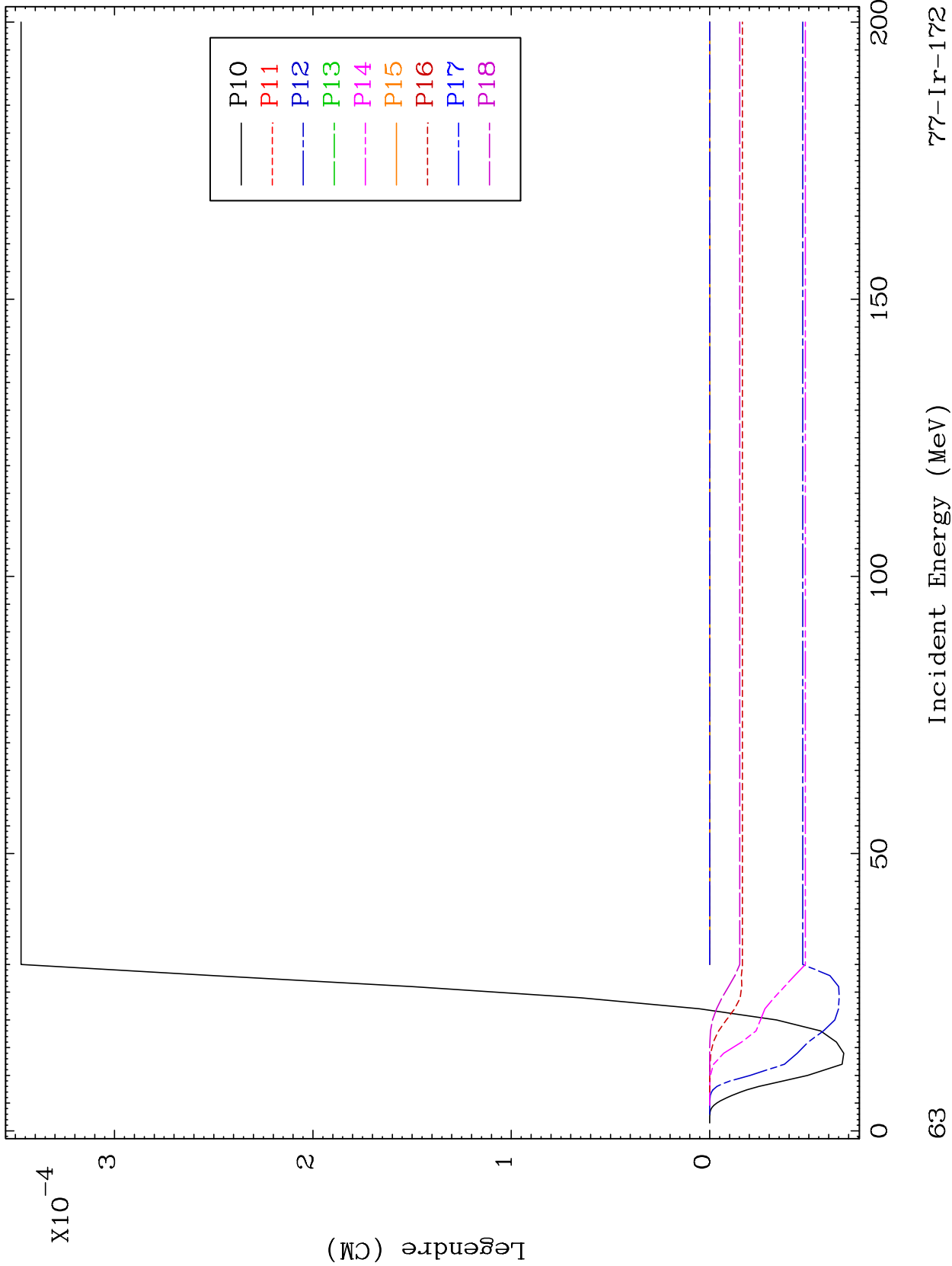
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 63 (n,n') Level
Legendre Coefficients

77-Ir-172



77-Ir-172

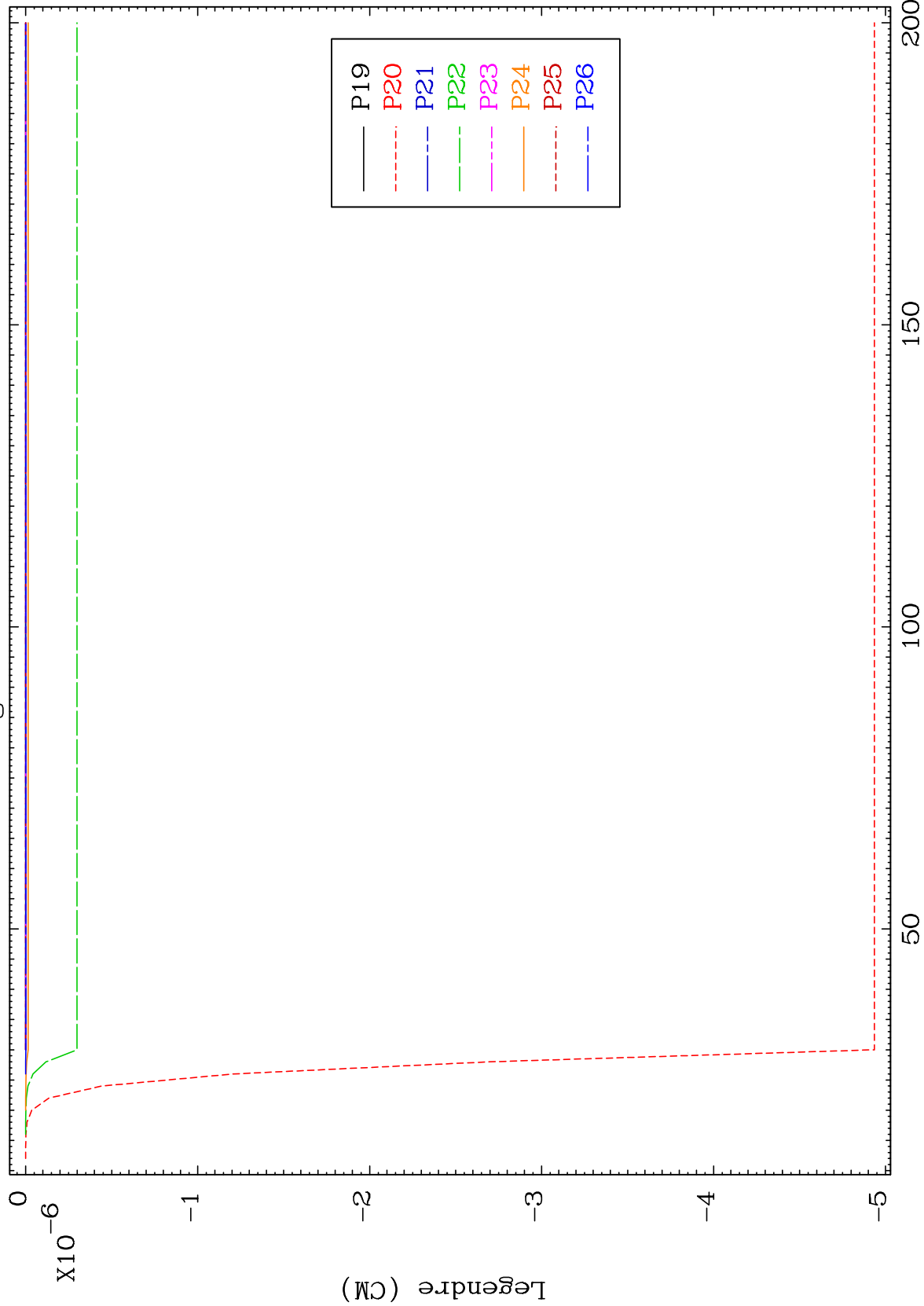
Incident Energy (MeV)

63

MAT 7668

MT= 63 (n,n') Level
Legendre Coefficients

77-Ir-172



64

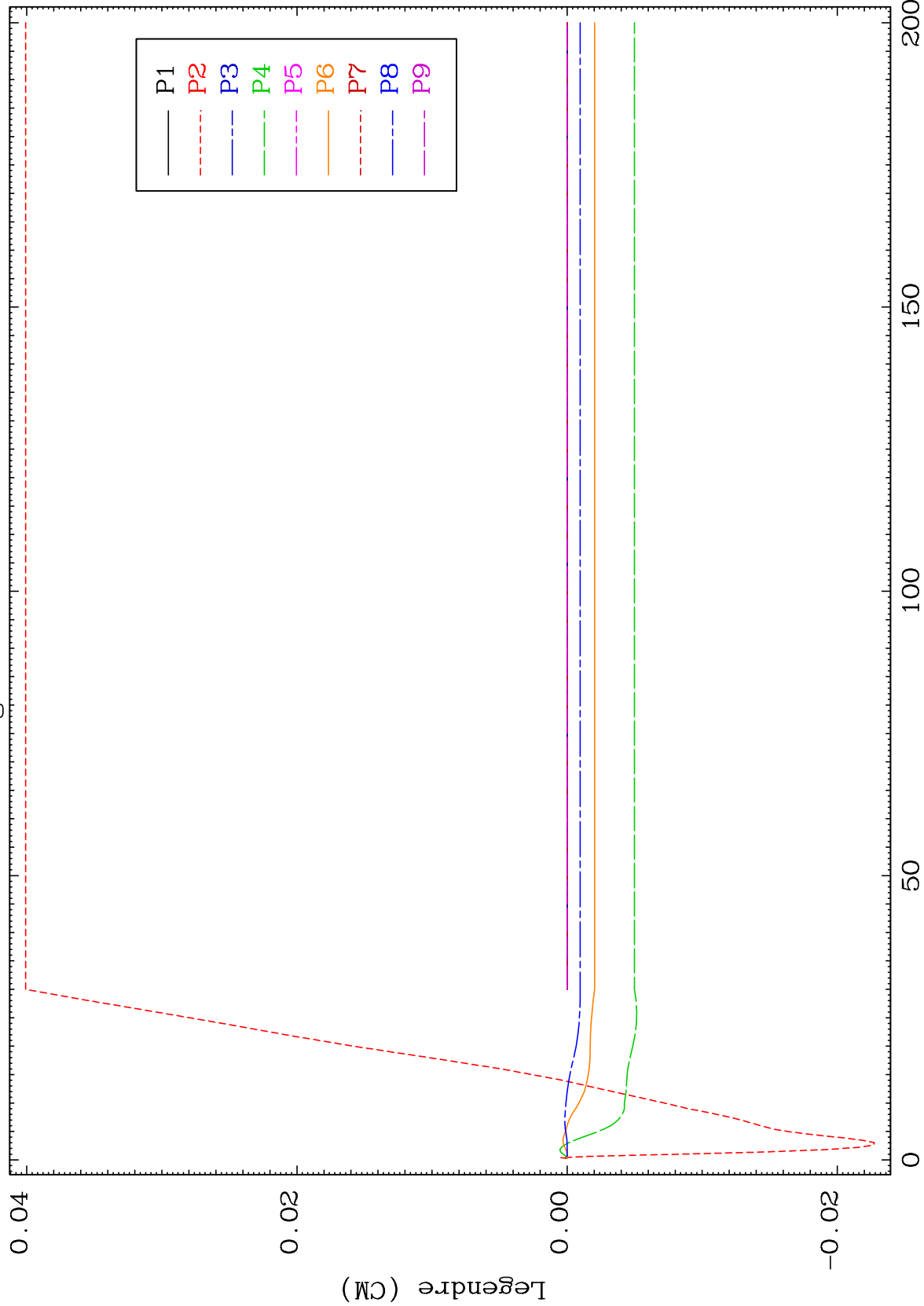
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 64 (n,n') Level
Legendre Coefficients

77-Ir-172



77-Ir-172

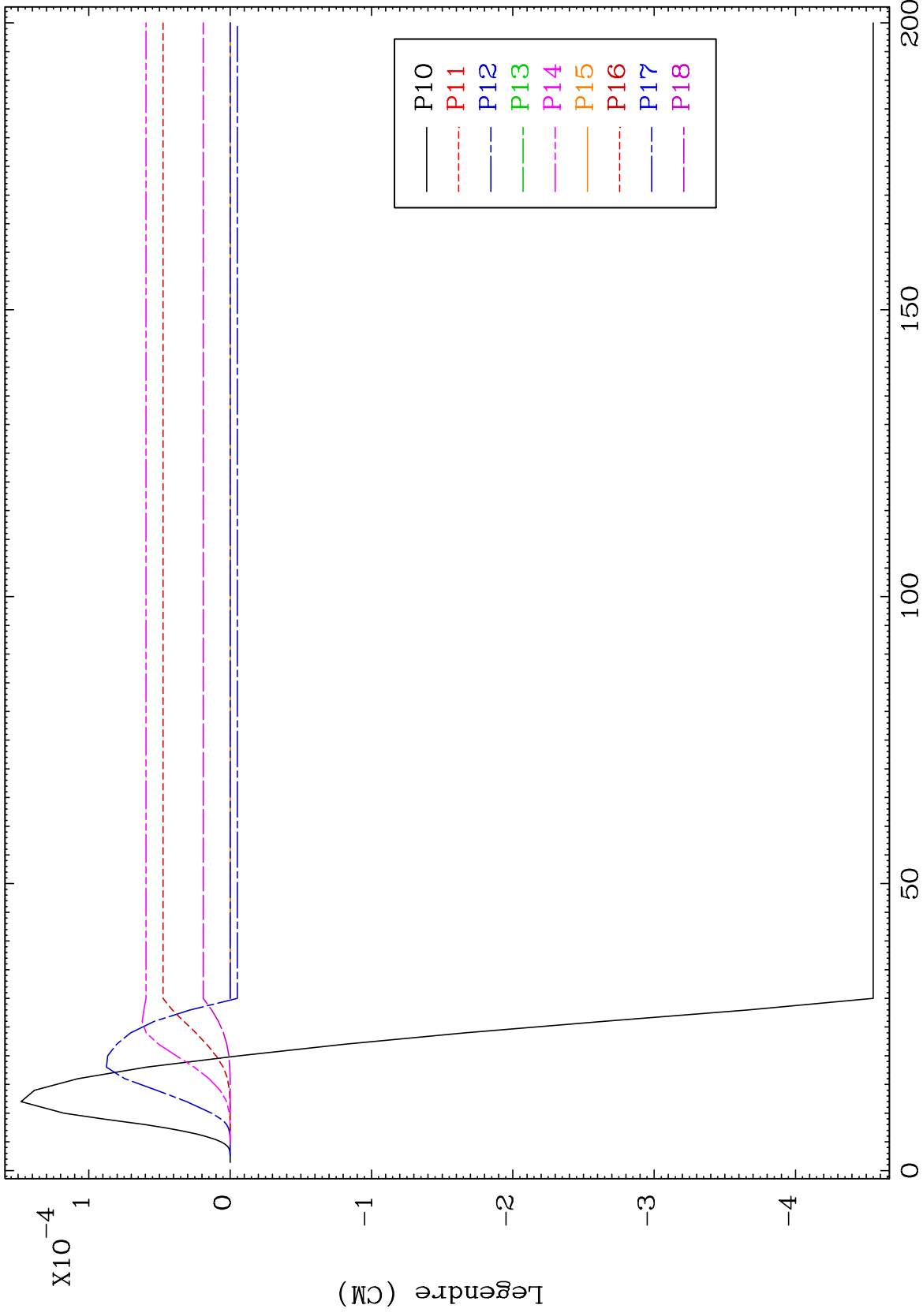
Incident Energy (MeV)

65

MAT 7668

MT= 64 (n,n') Level
Legendre Coefficients

77-Ir-172



66

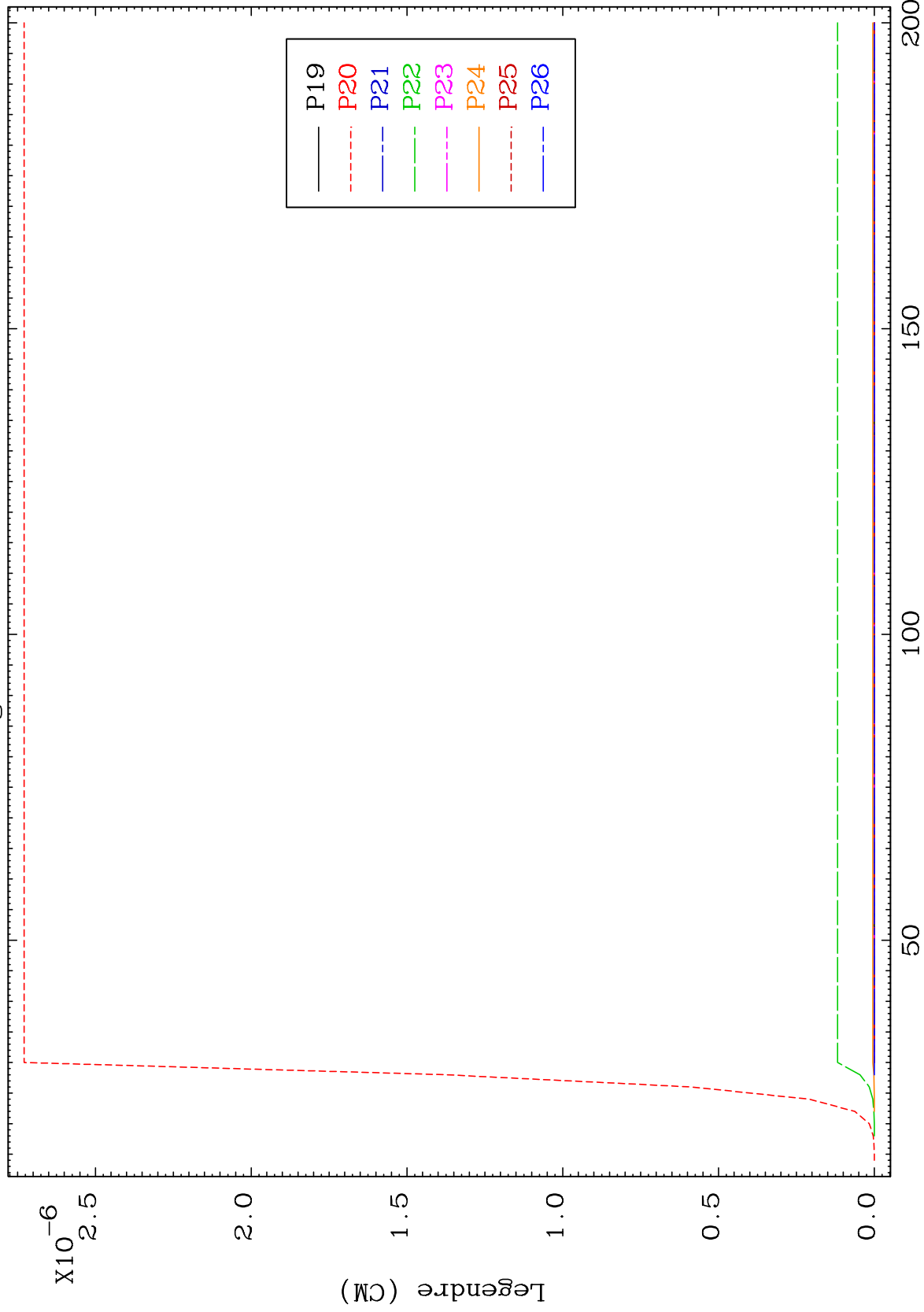
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 64 (n,n') Level
Legendre Coefficients

77-Ir-172



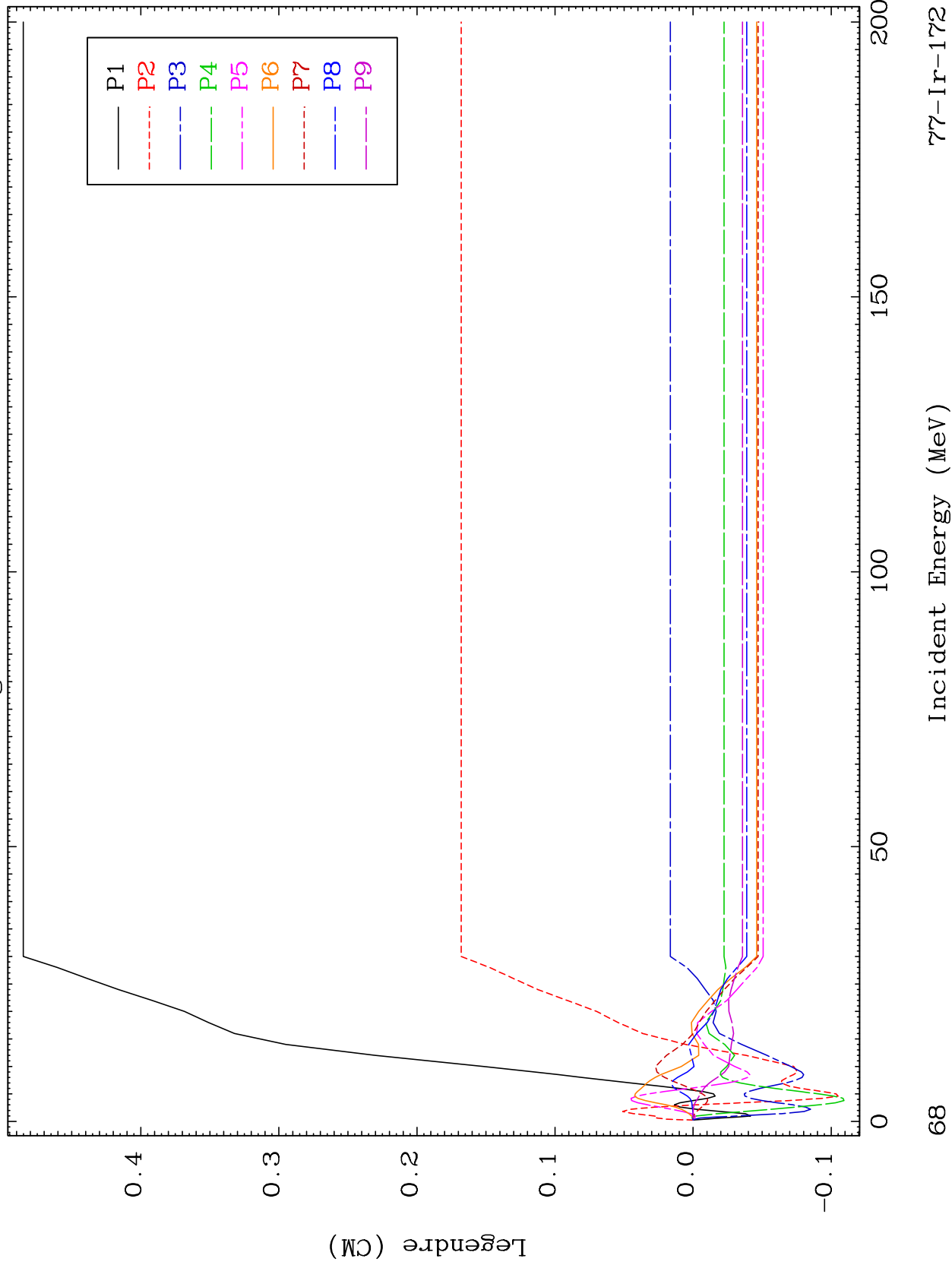
67

77-Ir-172

MAT 7668

MT= 65 (n,n') Level
Legendre Coefficients

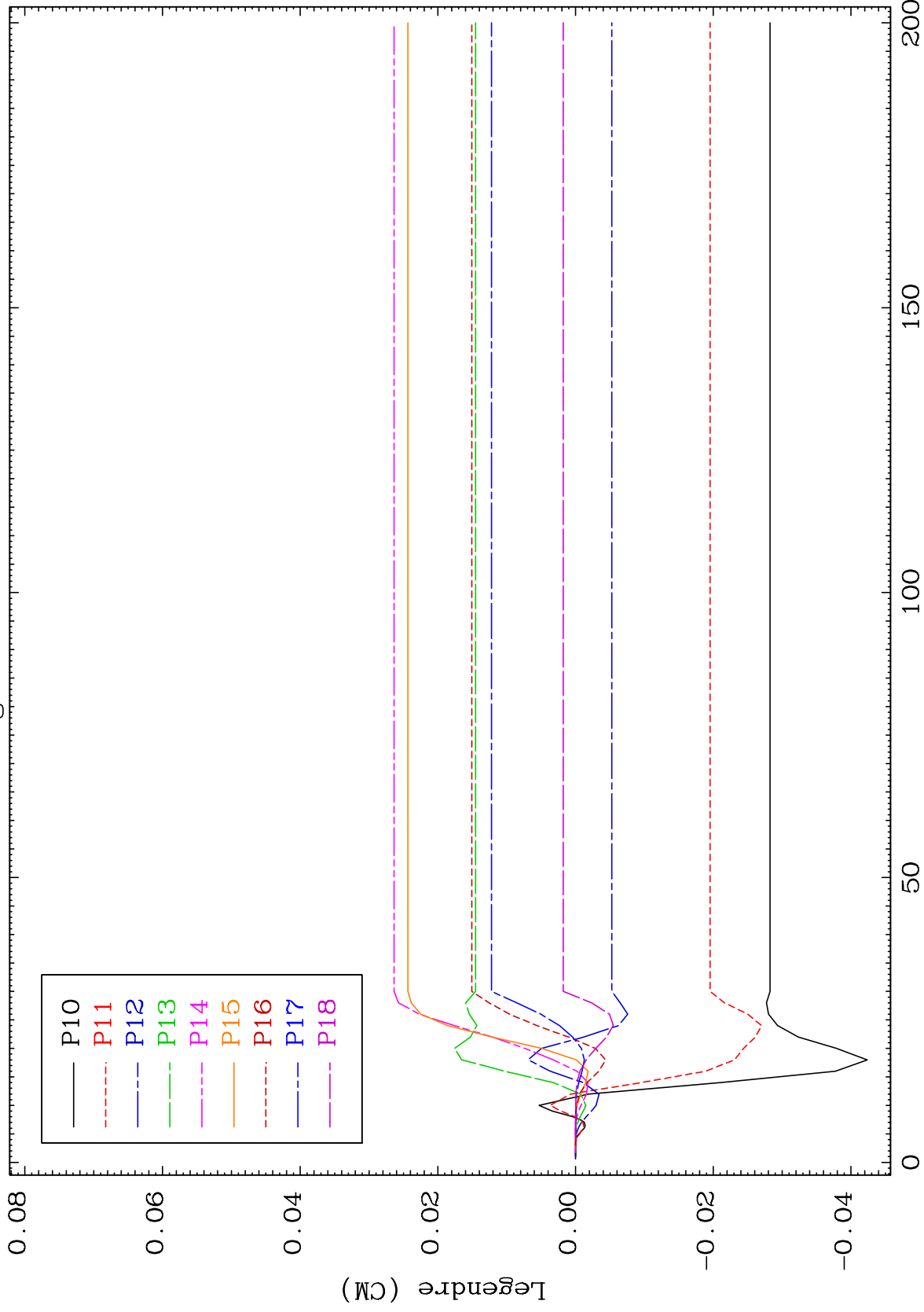
77-Ir-172



MAT 7668

MT= 65 (n,n') Level
Legendre Coefficients

77-Ir-172



69

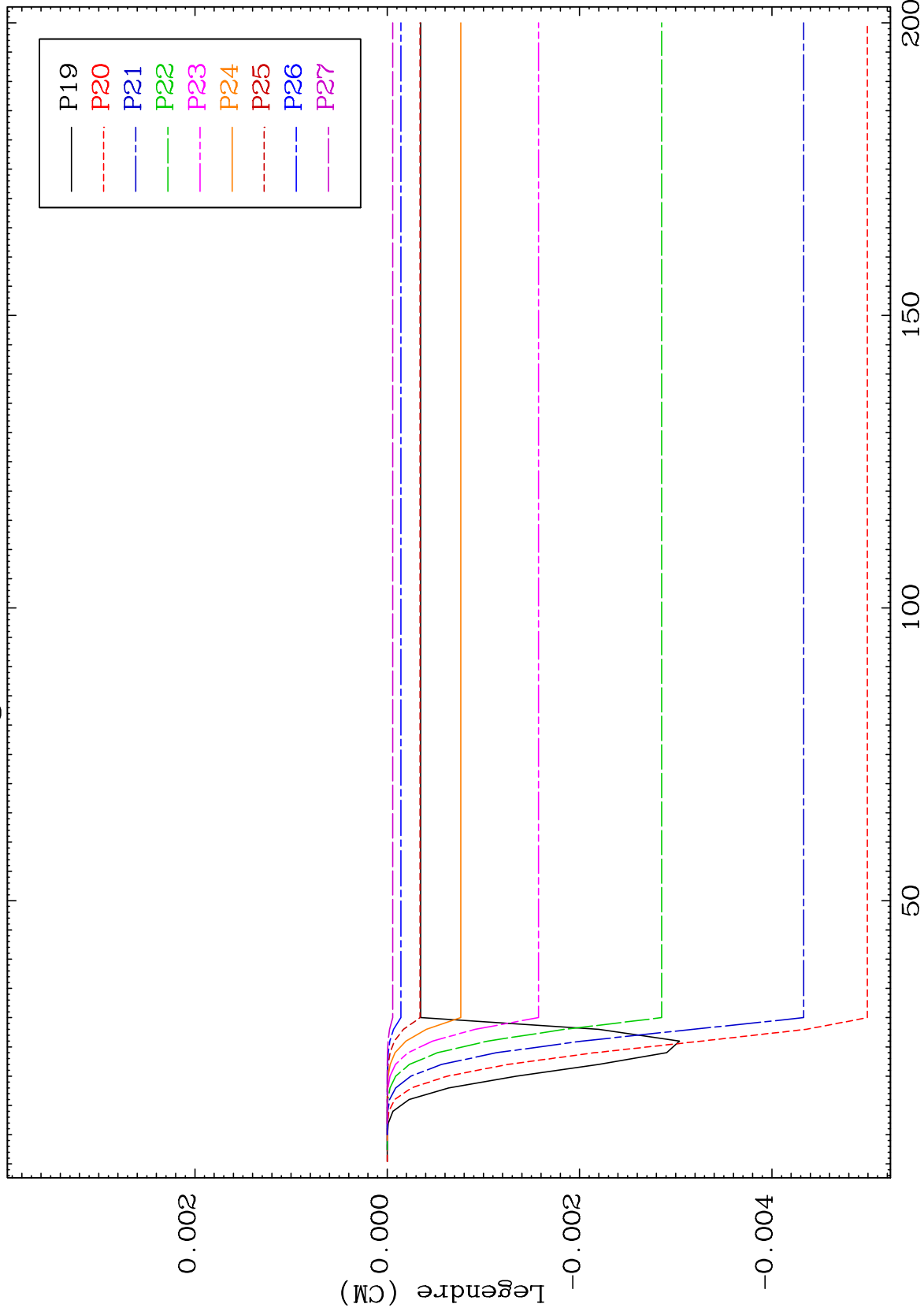
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 65 (n,n') Level
Legendre Coefficients

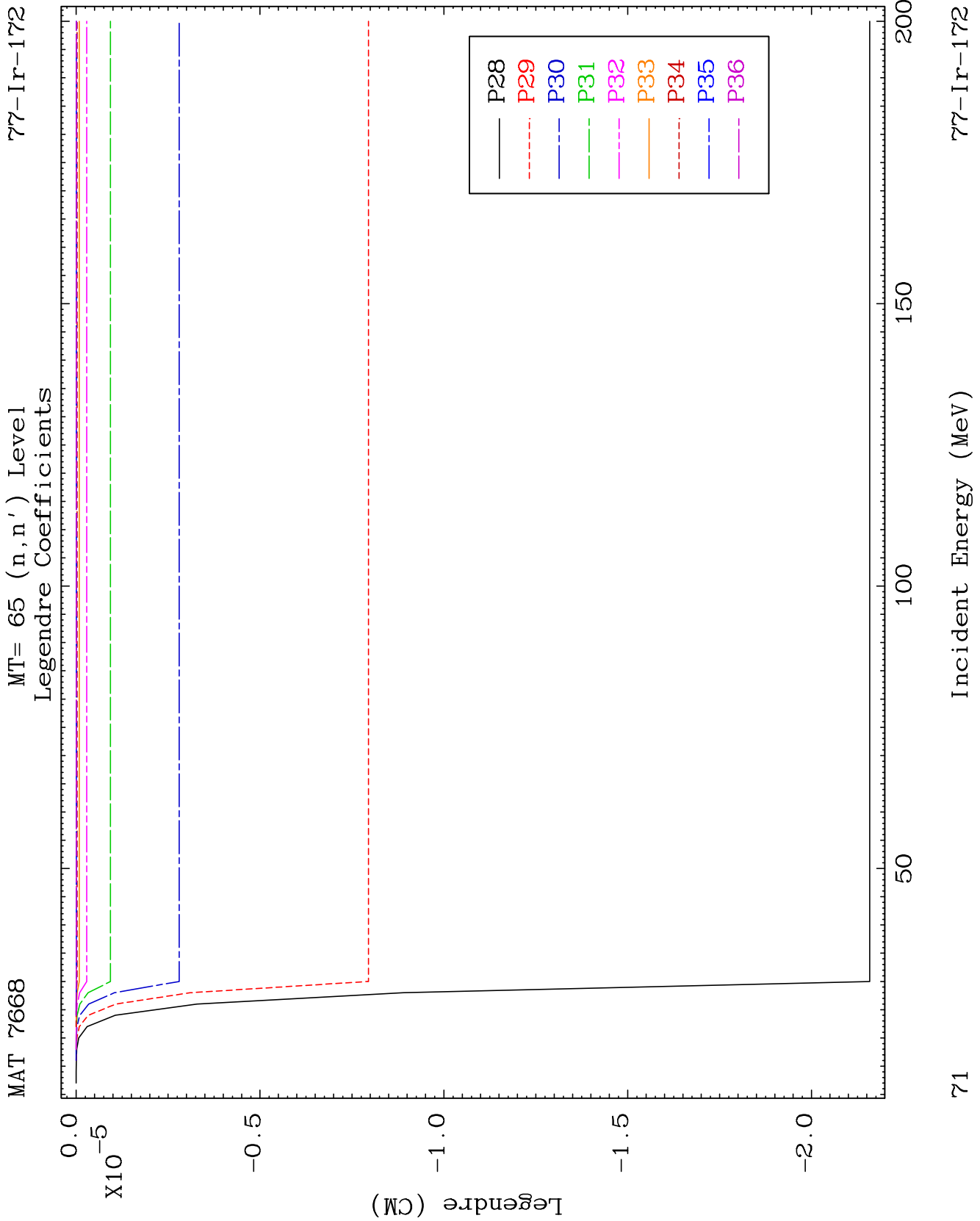
77-Ir-172



70

Incident Energy (MeV)

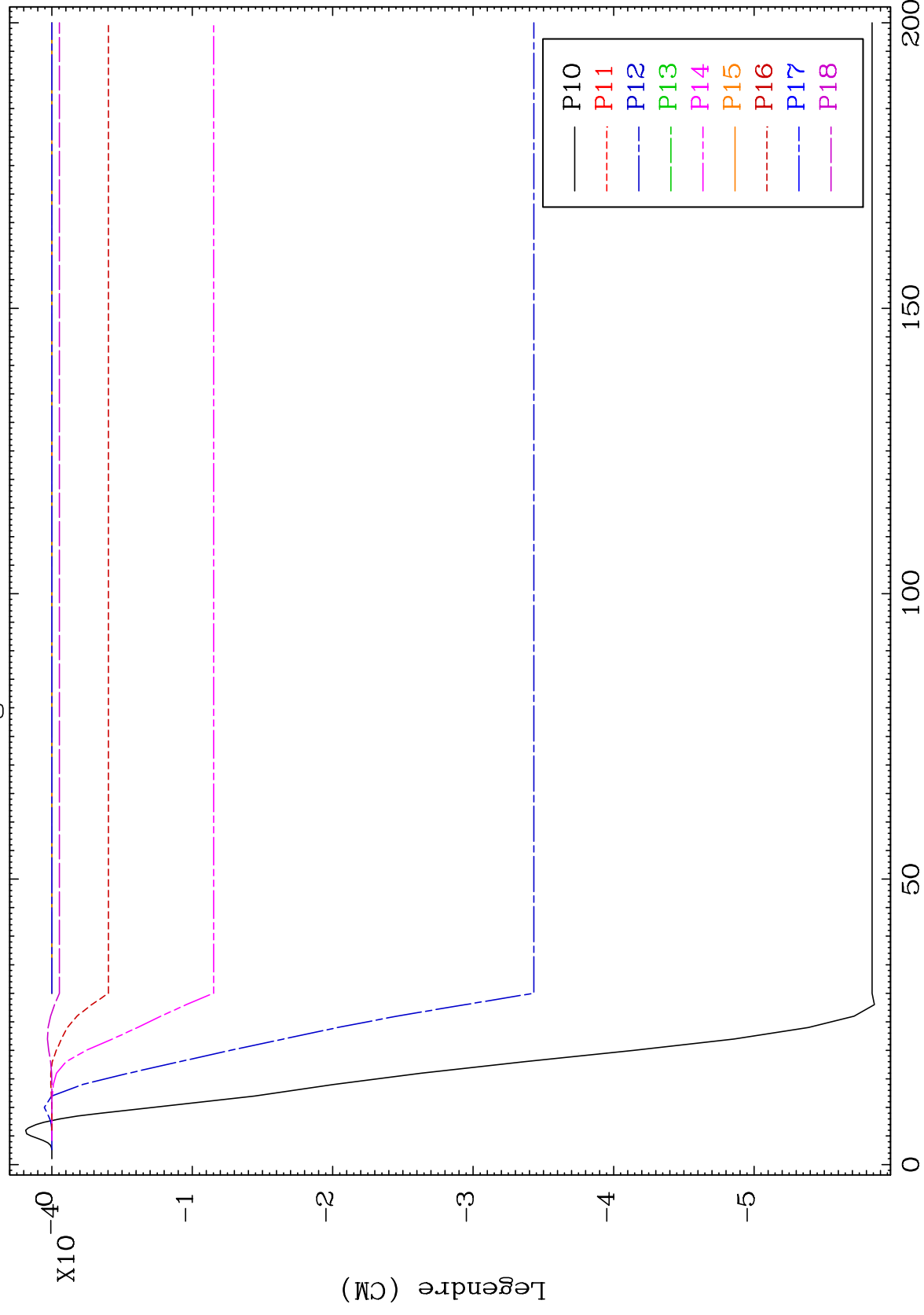
77-Ir-172



MAT 7668

MT= 66 (n,n') Level
Legendre Coefficients

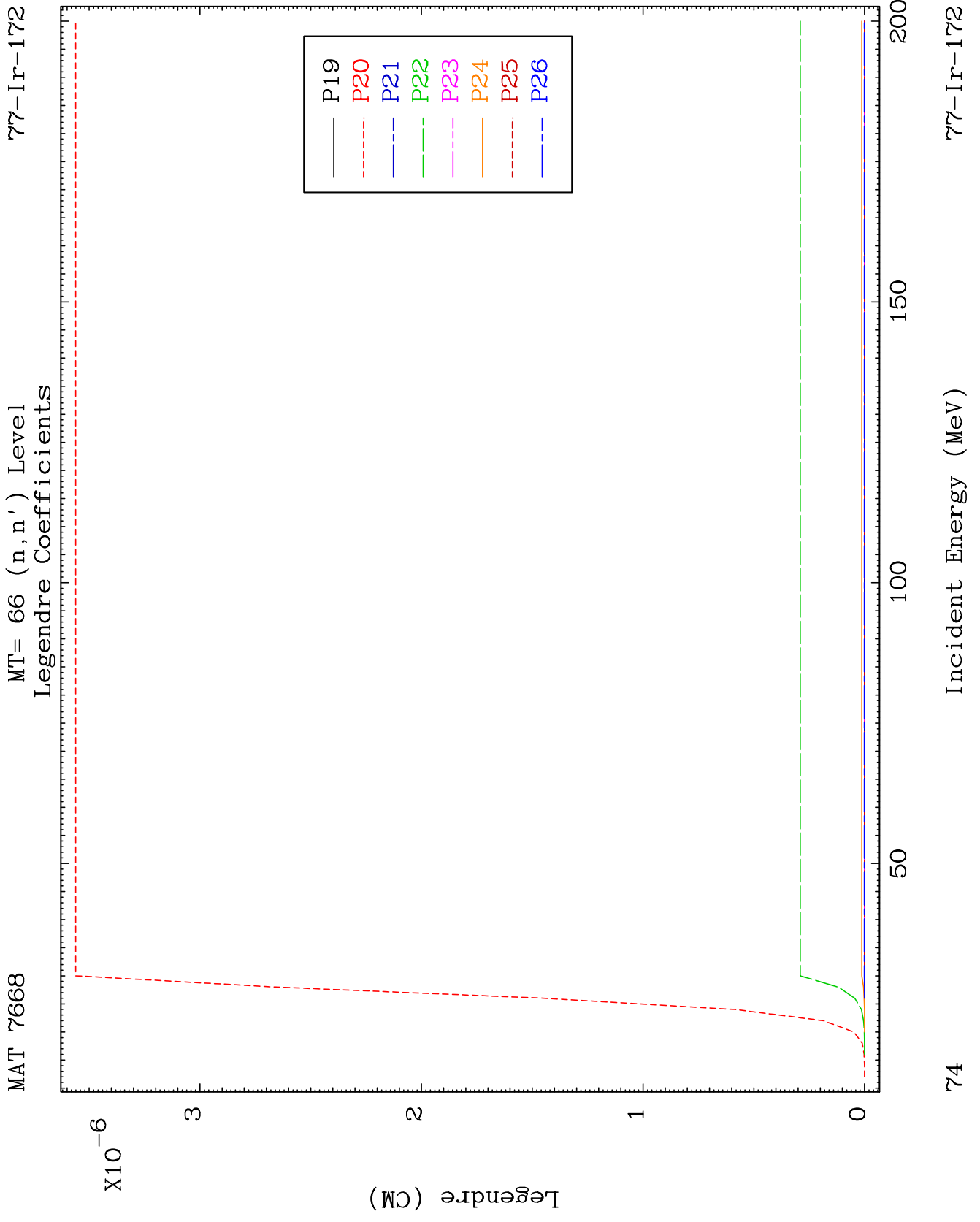
77-Ir-172



73

Incident Energy (MeV)

77-Ir-172

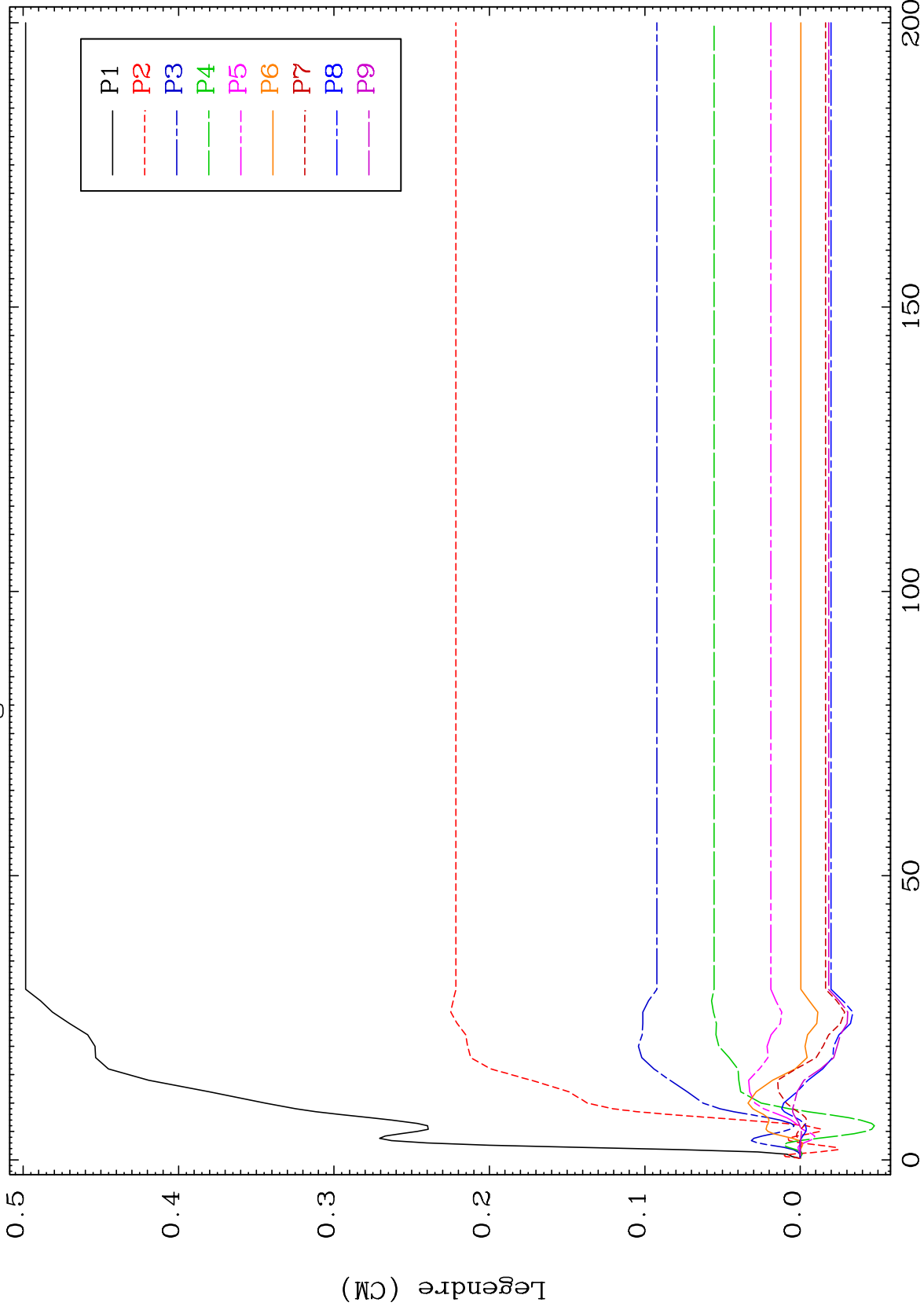


MAT 7668

MT= 67 (n,n') Level

77-Ir-172

Legendre Coefficients



77-Ir-172

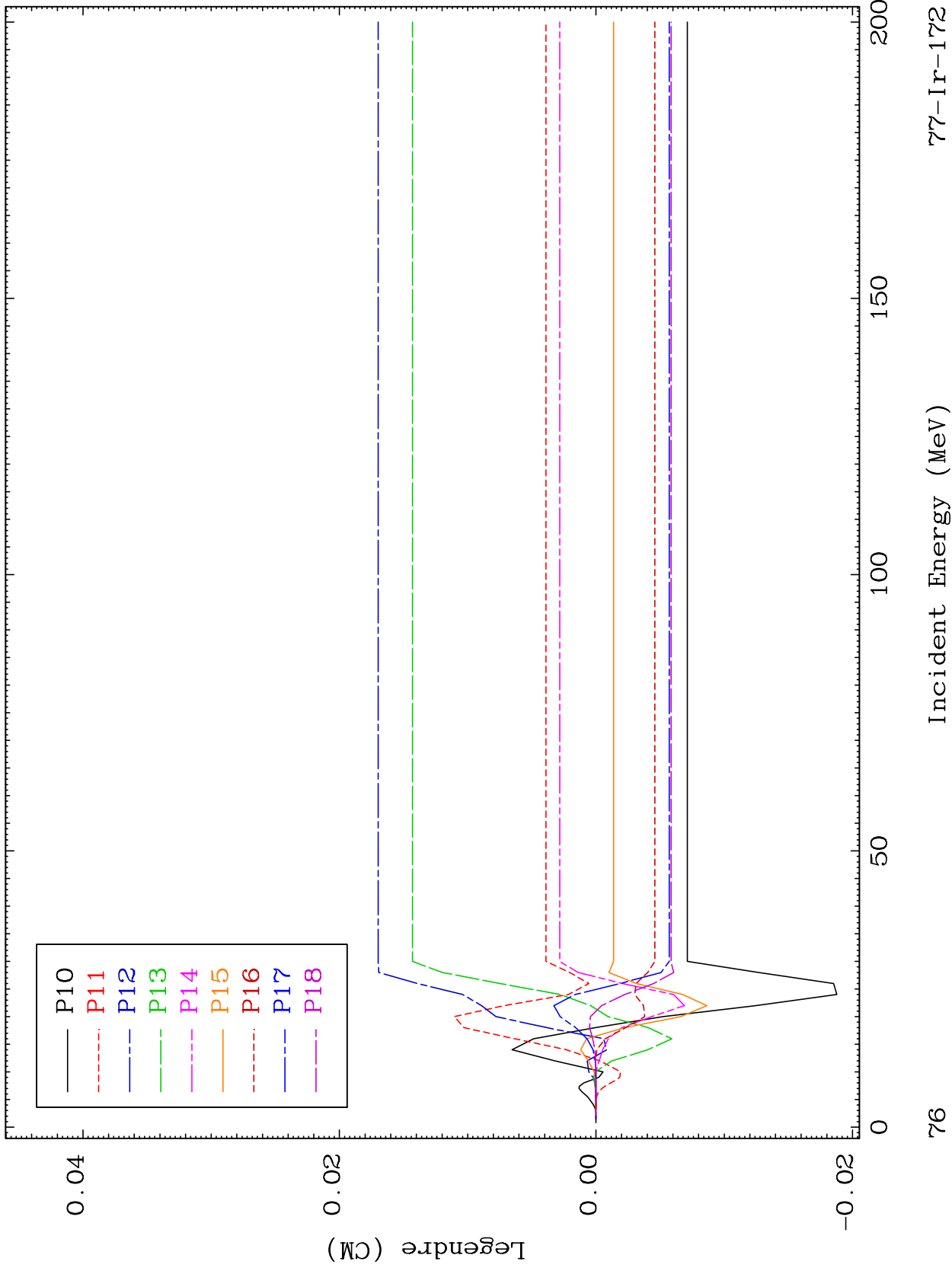
Incident Energy (MeV)

75

MAT 7668

MT= 67 (n,n') Level
Legendre Coefficients

77-Ir-172



76

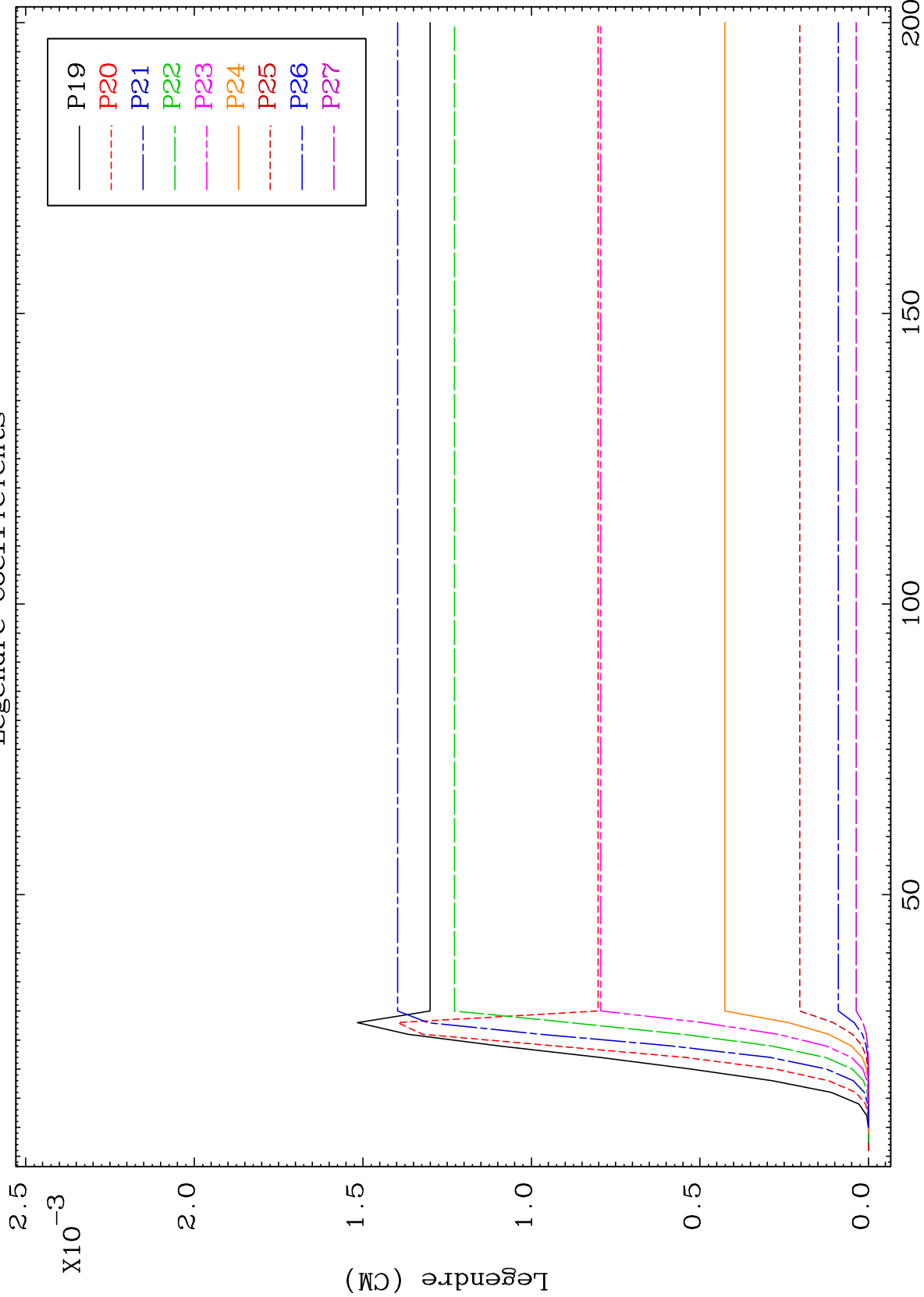
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 67 (n,n') Level
Legendre Coefficients

77-Ir-172



77

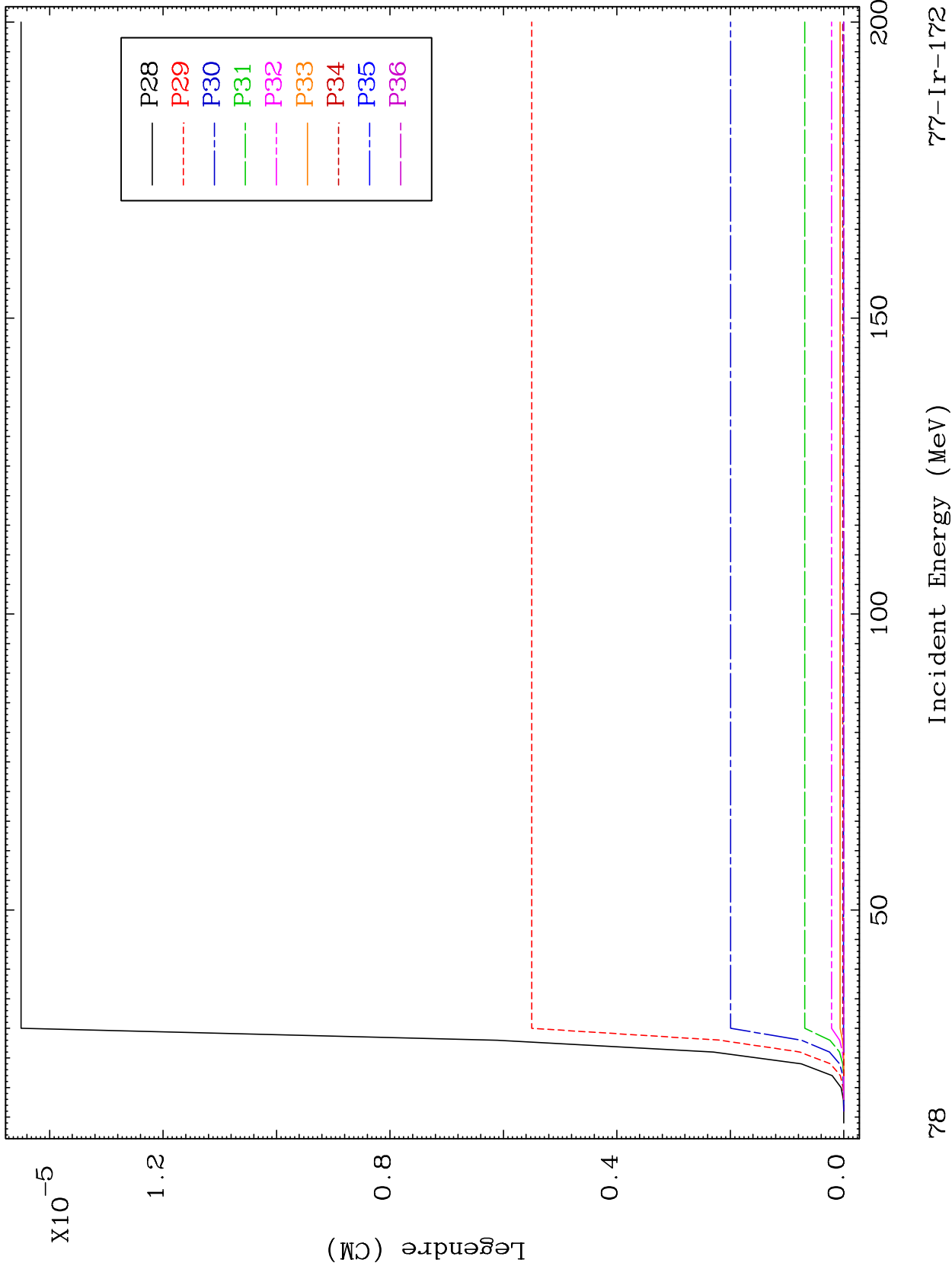
Incident Energy (MeV)

77-Ir-172

MAT 7668

MT= 67 (n,n') Level
Legendre Coefficients

77-Ir-172



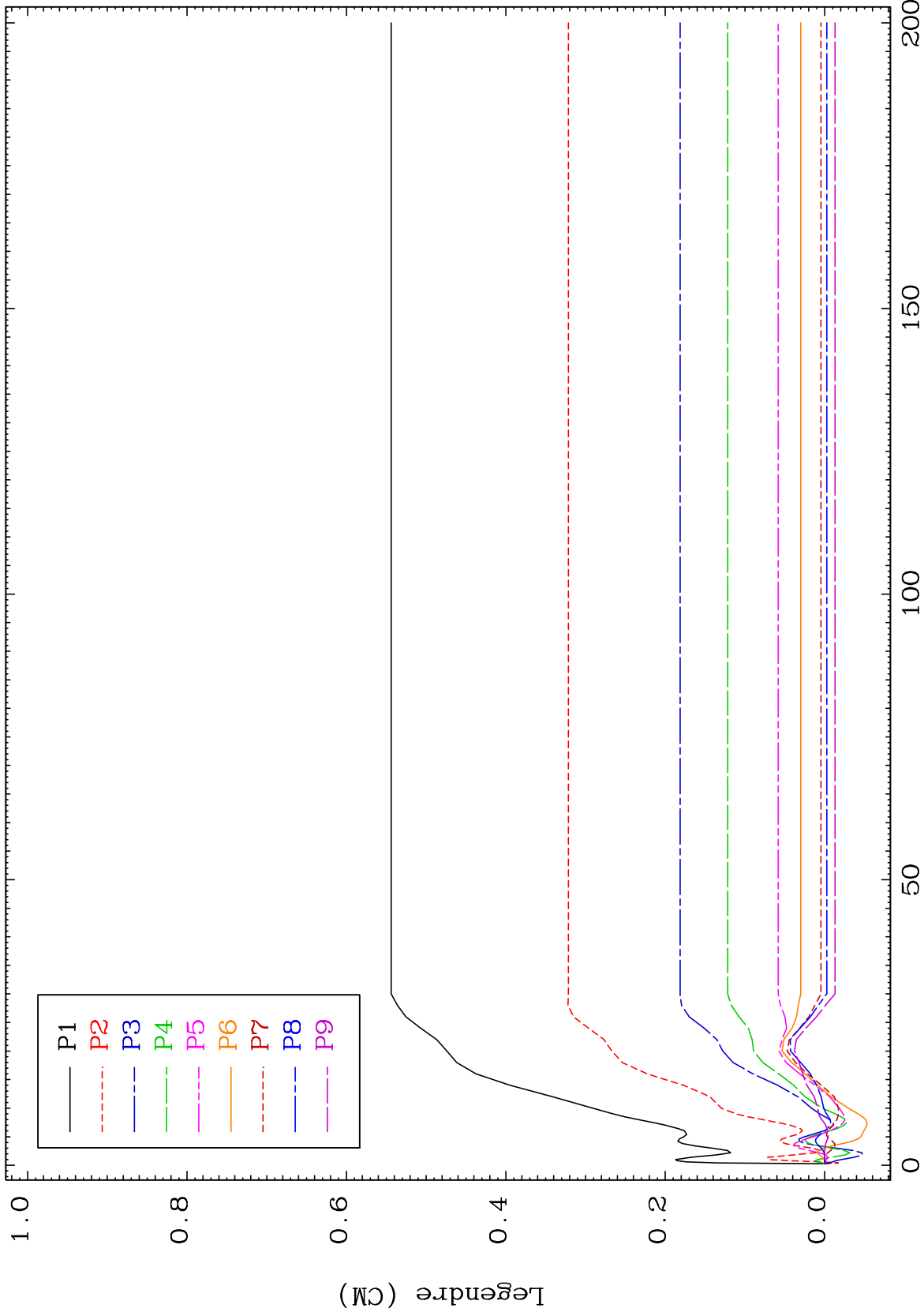
78

77-Ir-172

MAT 7668

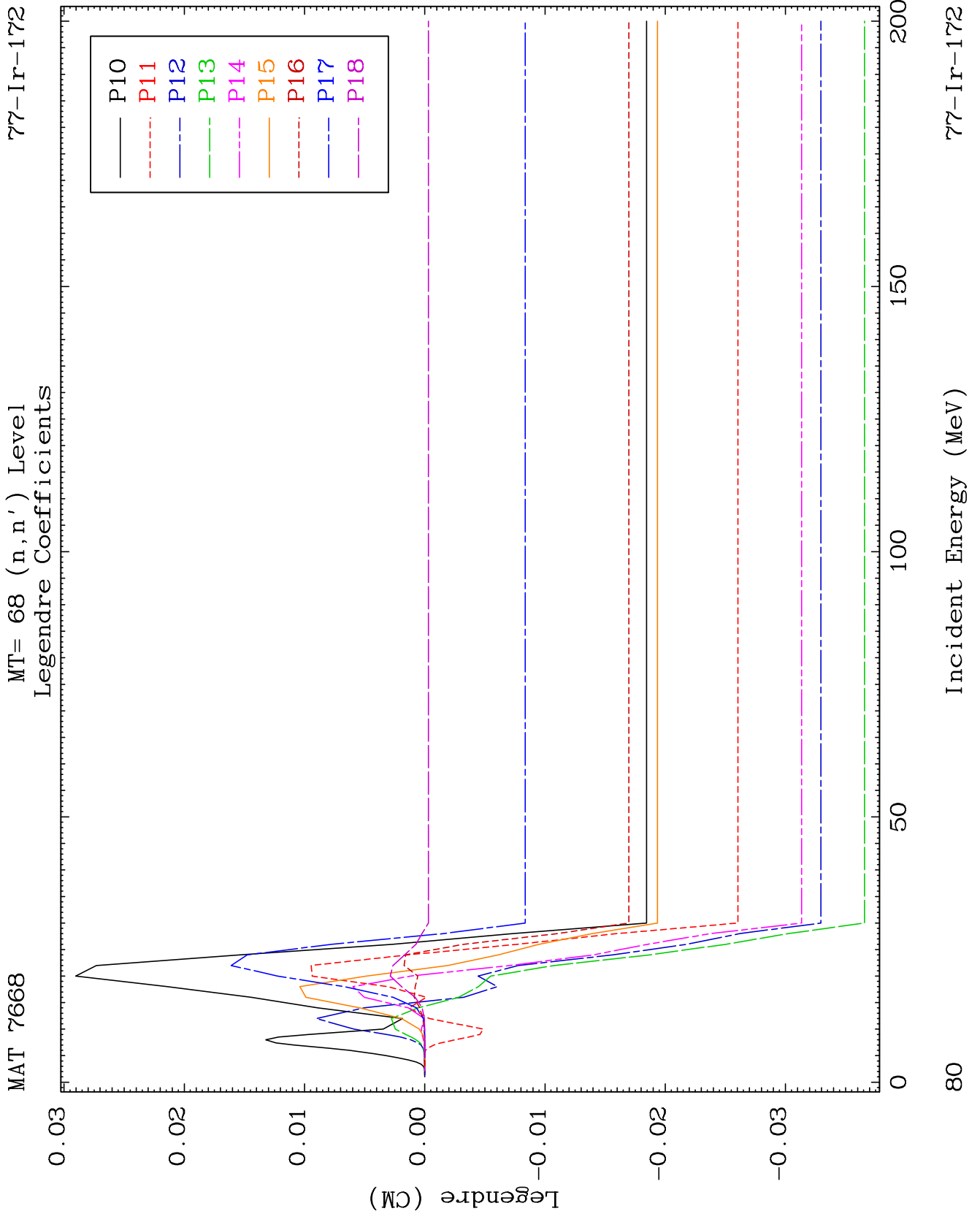
MT= 68 (n,n') Level
Legendre Coefficients

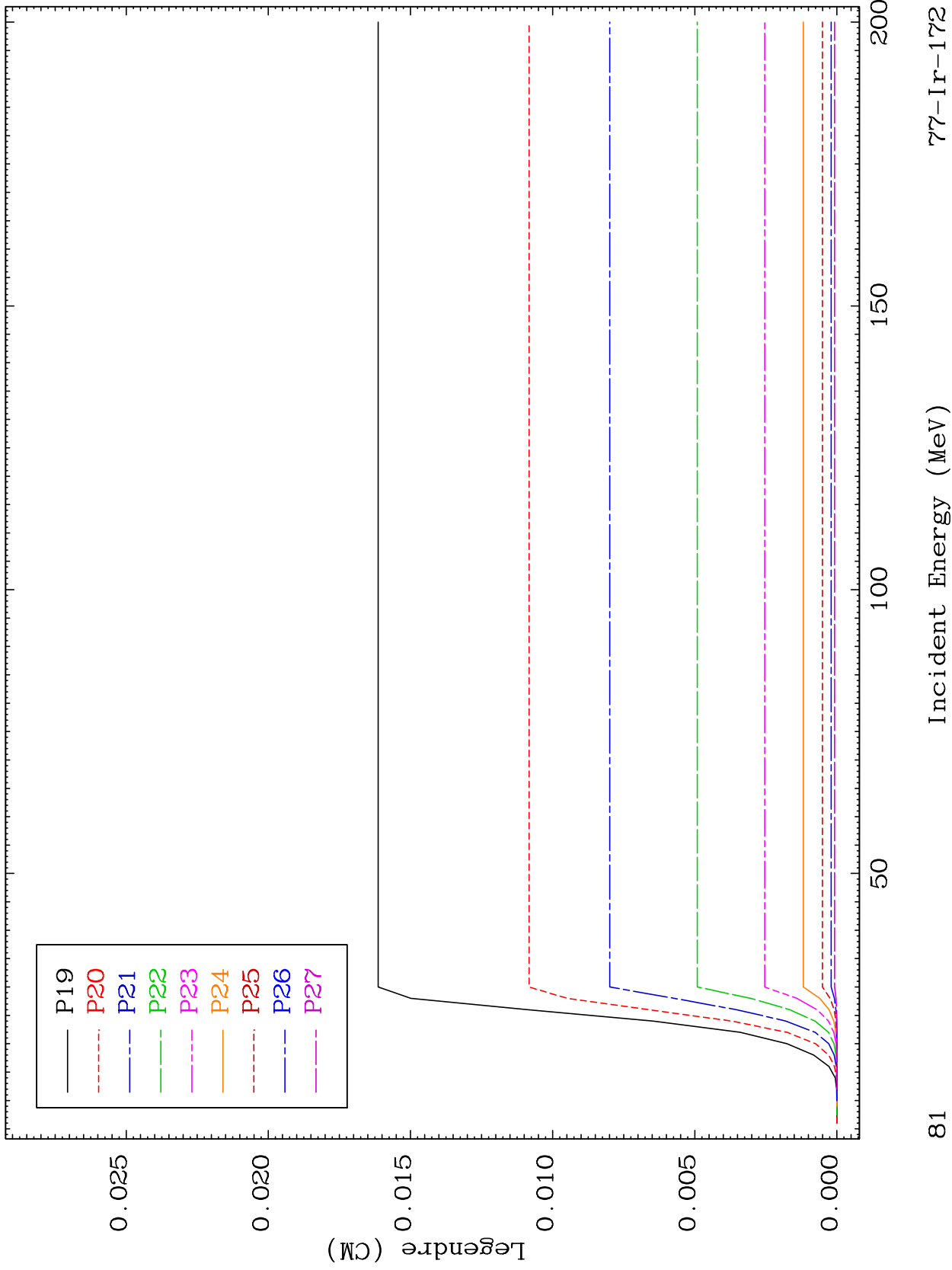
77-Ir-172



79

77-Ir-172

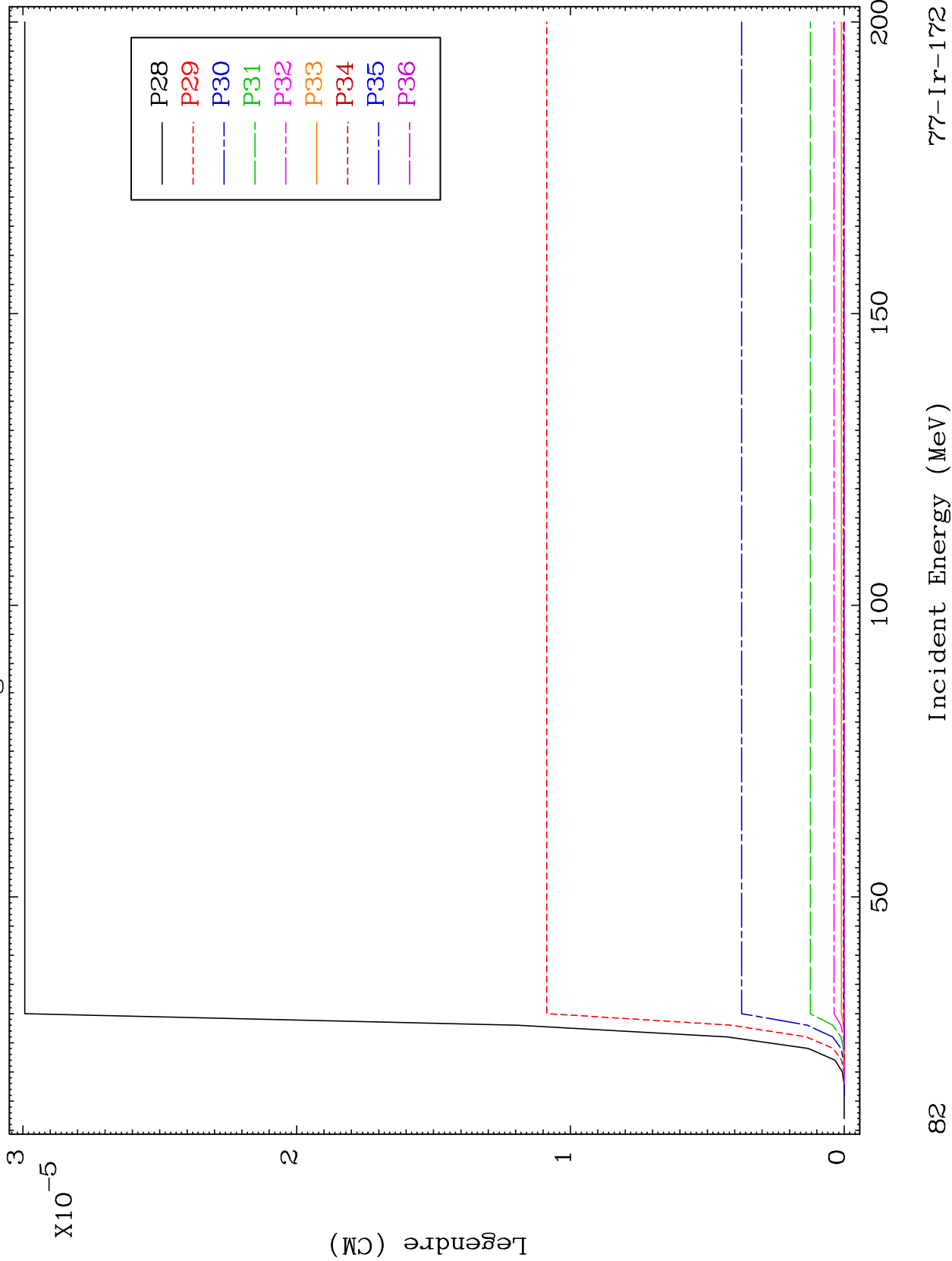




MAT 7668

MT= 68 (n,n') Level
Legendre Coefficients

77-Ir-172

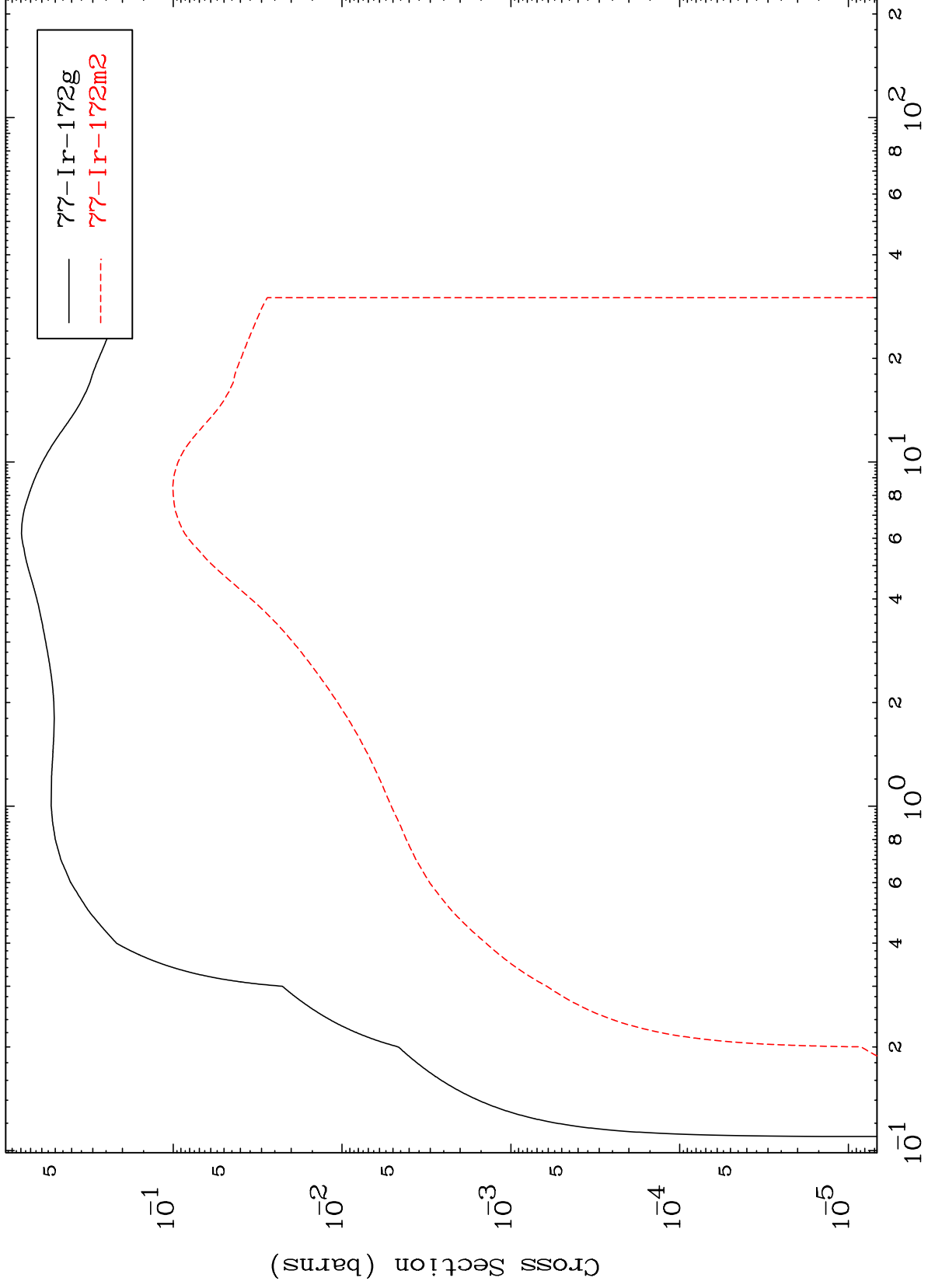


82

MAT 7668

Inelastic
Radionuclide Production Cross Section

⁷⁷Ir-172



83

Incident Energy (MeV)

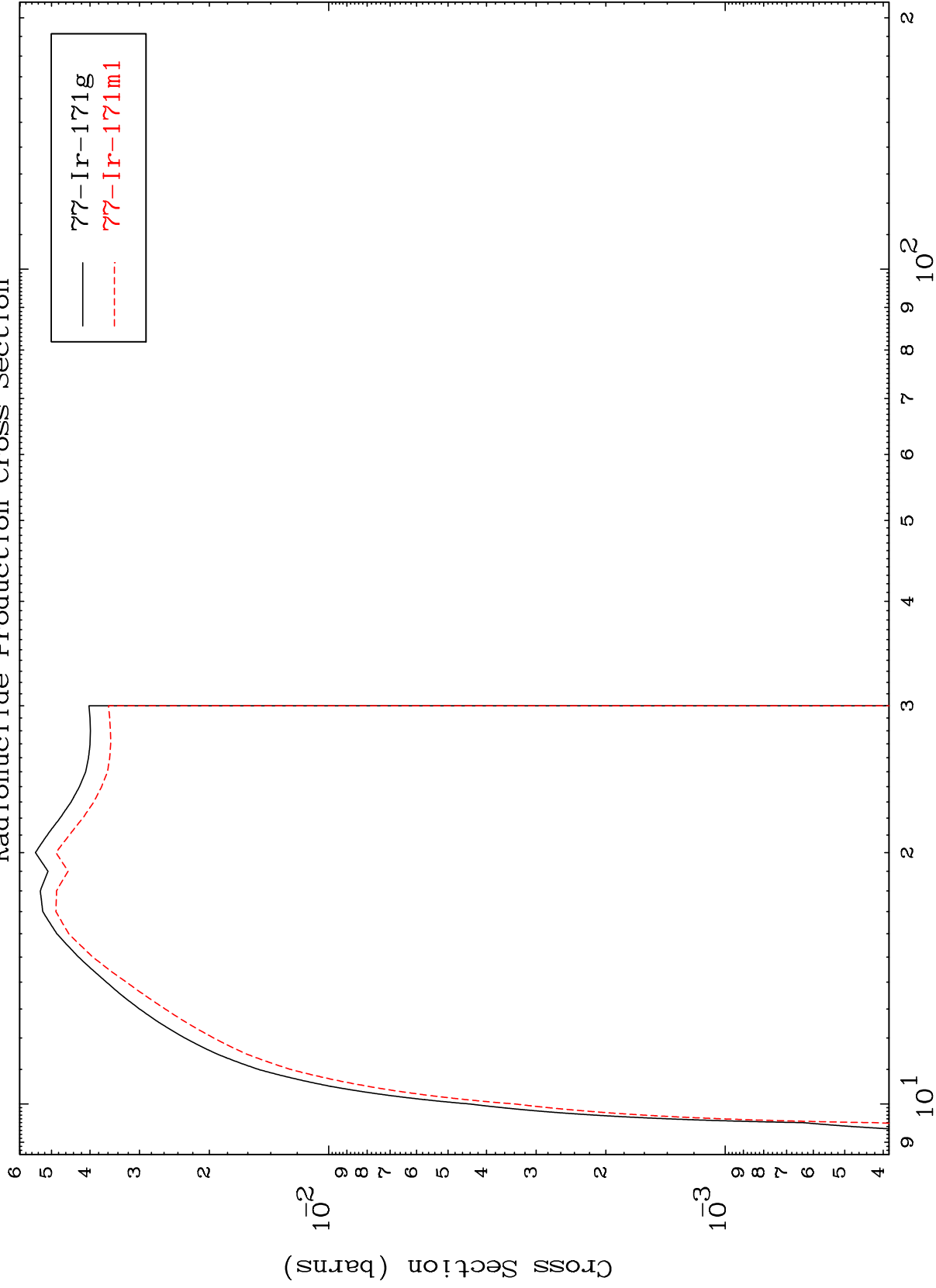
⁷⁷Ir-172

MAT 7668

⁷⁷Ir-172

(n,2n)

Radionuclide Production Cross Section



84

Incident Energy (MeV)

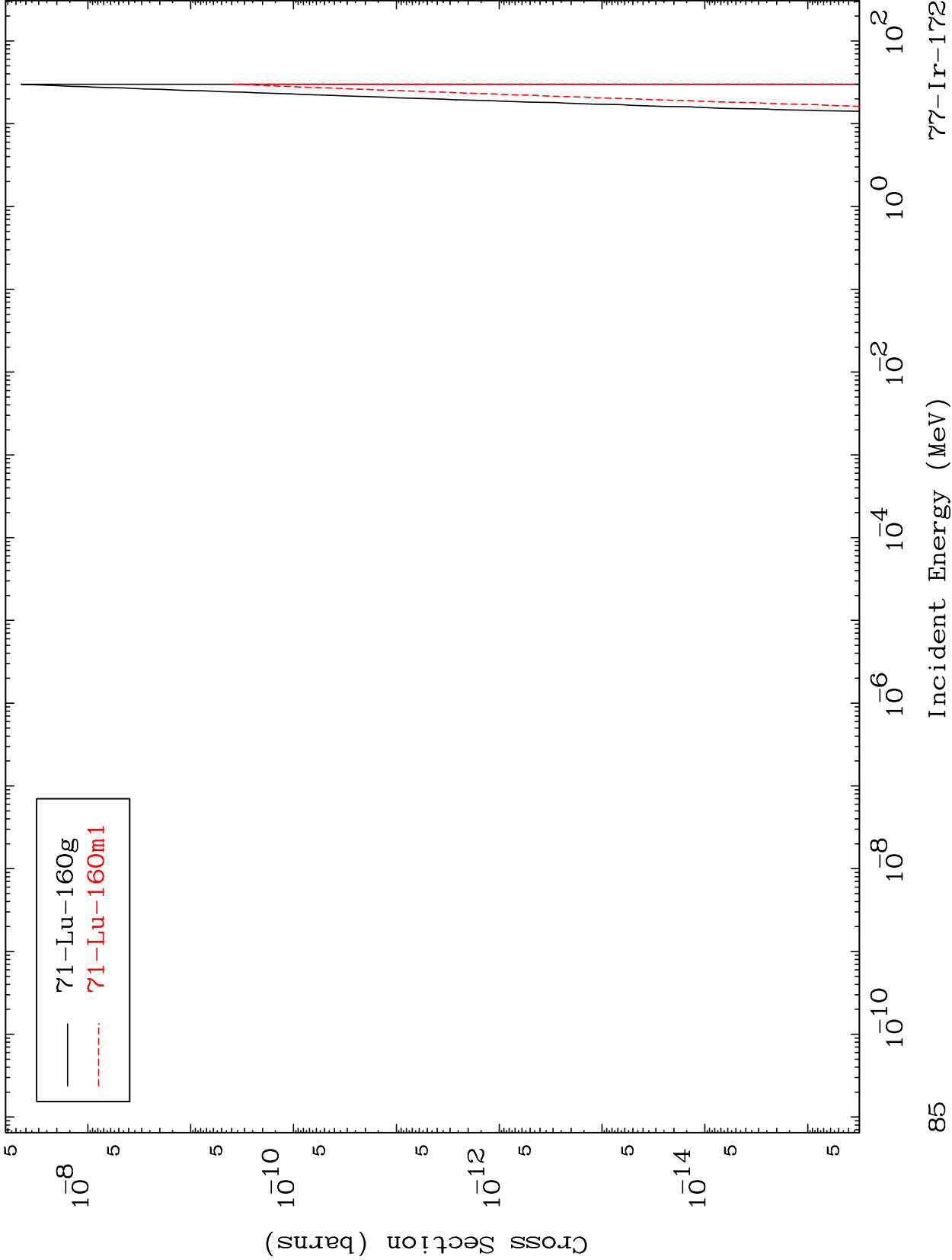
⁷⁷Ir-172

MAT 7668

(n,n') 3 α

⁷⁷Ir-172

Radionuclide Production Cross Section

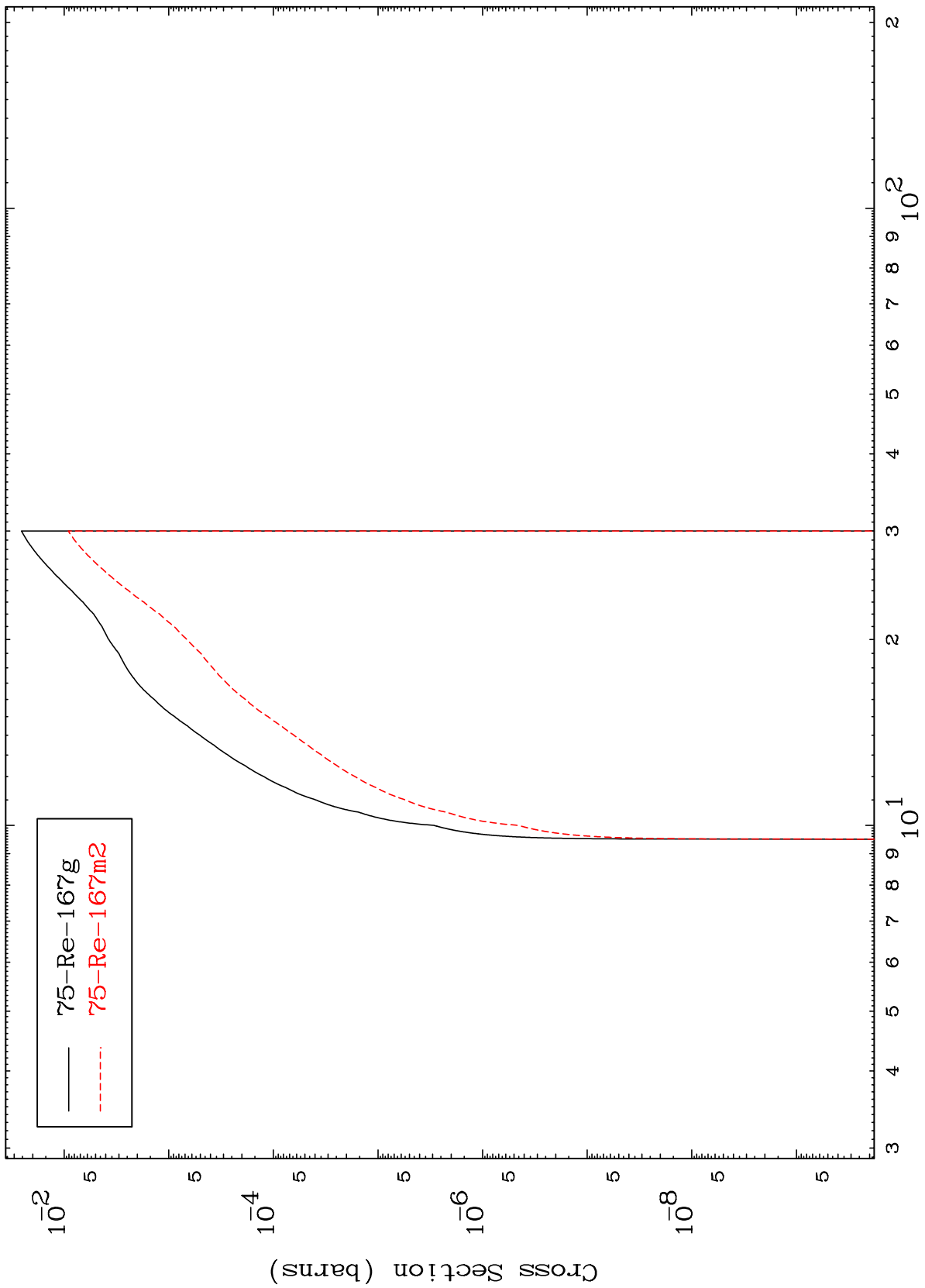


MAT 7668

$(n,2n) \alpha$

$^{77}\text{Ir-172}$

Radionuclide Production Cross Section



86

Incident Energy (MeV)

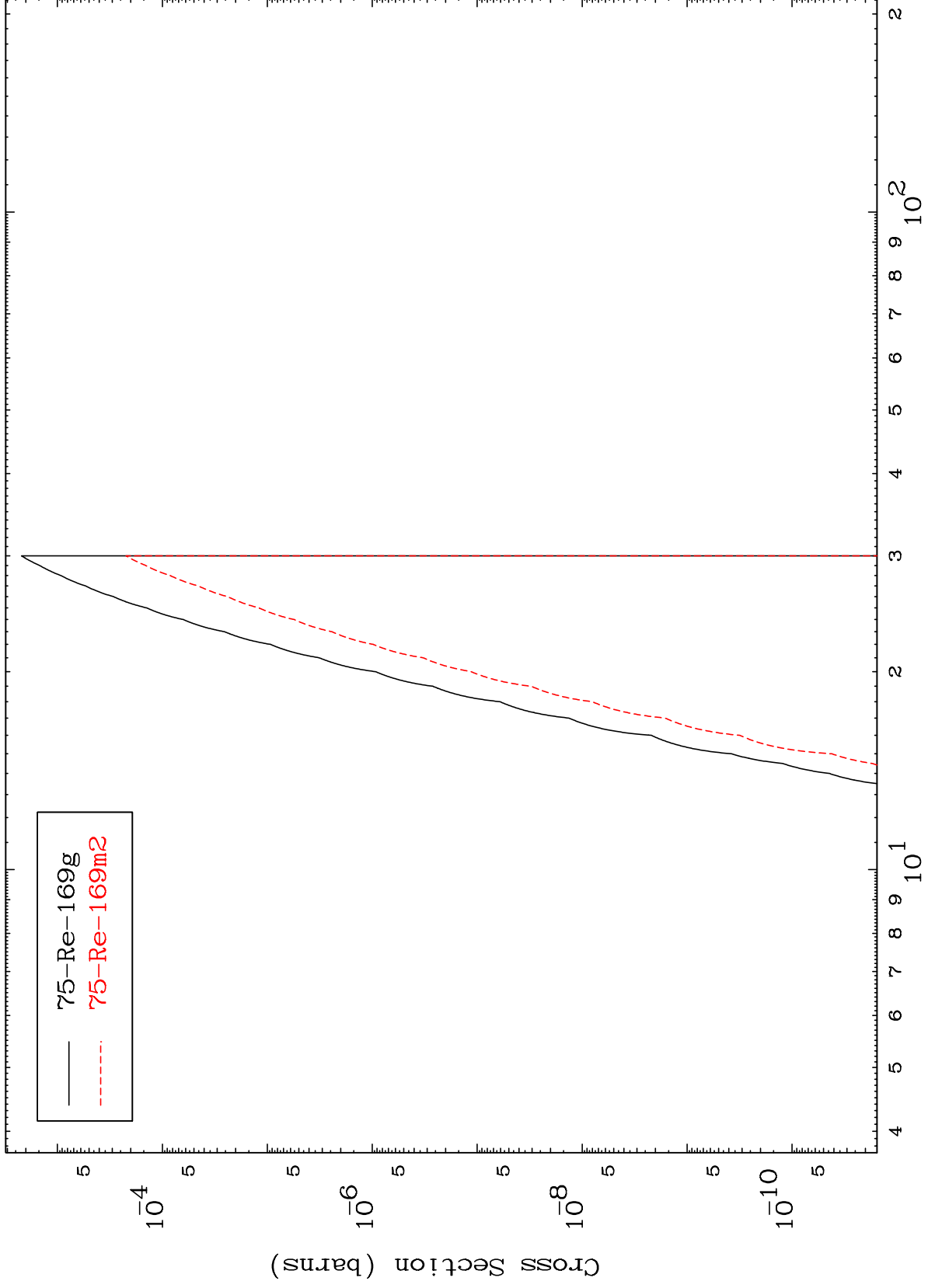
$^{77}\text{Ir-172}$

MAT 7668

(n,n') He-3

77-Ir-172

Radionuclide Production Cross Section



87

Incident Energy (MeV)

77-Ir-172

MAT 7668

(n,4n)

⁷⁷Ir-172

Radionuclide Production Cross Section

— ⁷⁷Ir-169m1

$\times 10^{-7}$

5

4

3

2

Cross Section (barns)

10^2

4

5

6

7

8

9

10

2

88

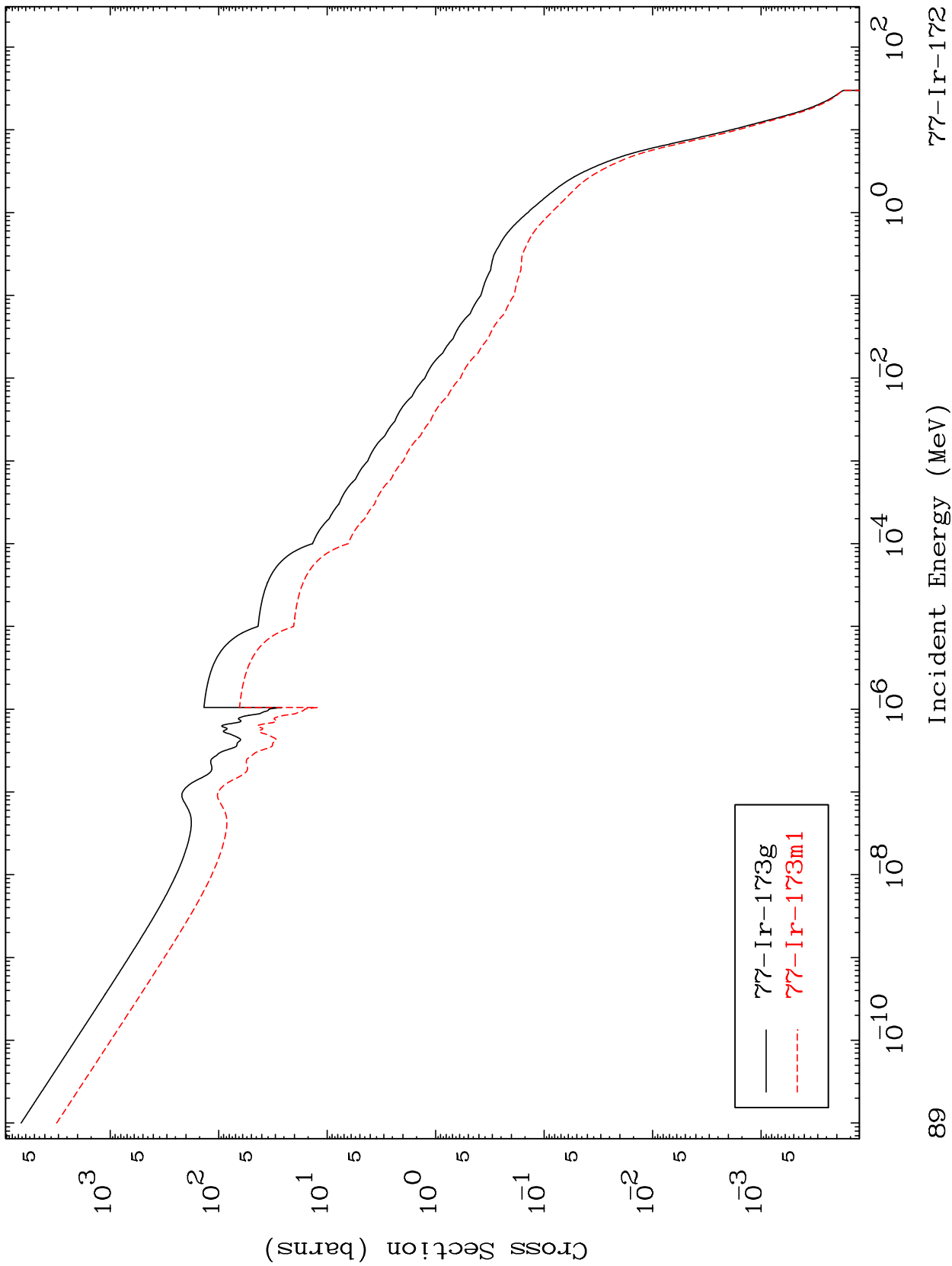
Incident Energy (MeV)

⁷⁷Ir-172

MAT 7668

⁷⁷Ir-172

^(n,γ)
Radionuclide Production Cross Section

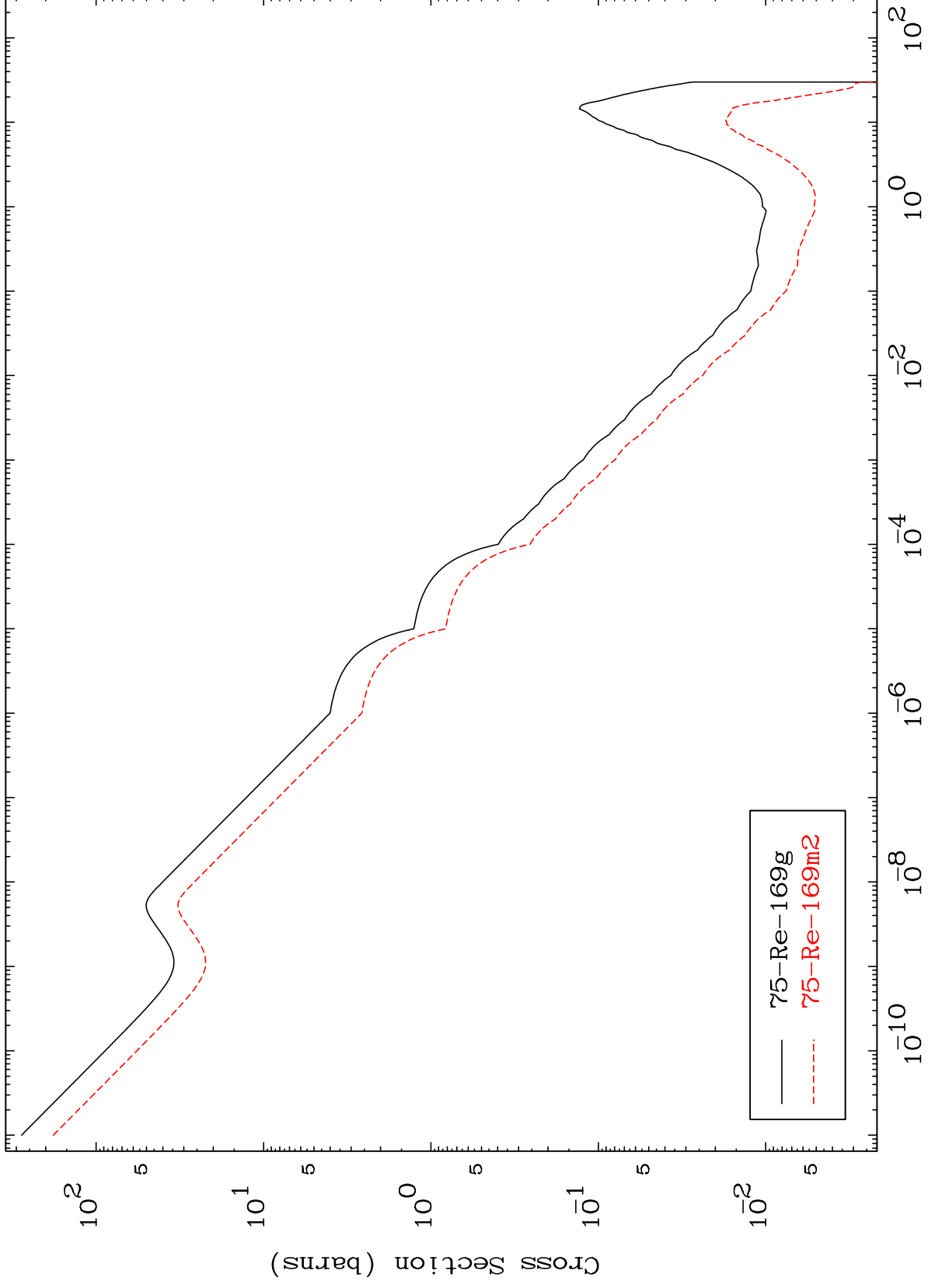


MAT 7668

⁷⁷Ir-172

Radionuclide Production Cross Section

(n, α)



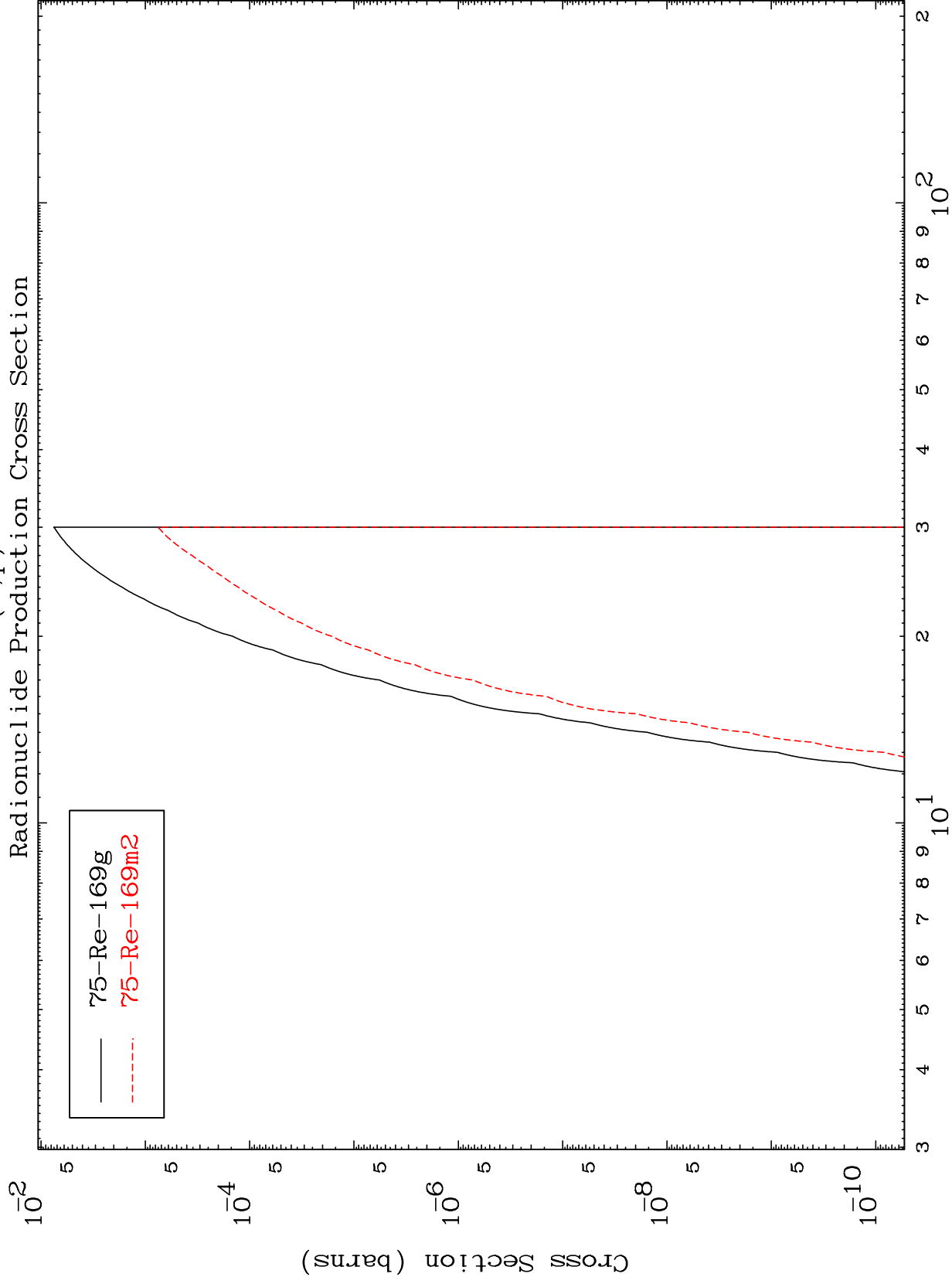
90

⁷⁷Ir-172

MAT 7668

(n,p) t

⁷⁷Ir-172



91

Incident Energy (MeV)

⁷⁷Ir-172