

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

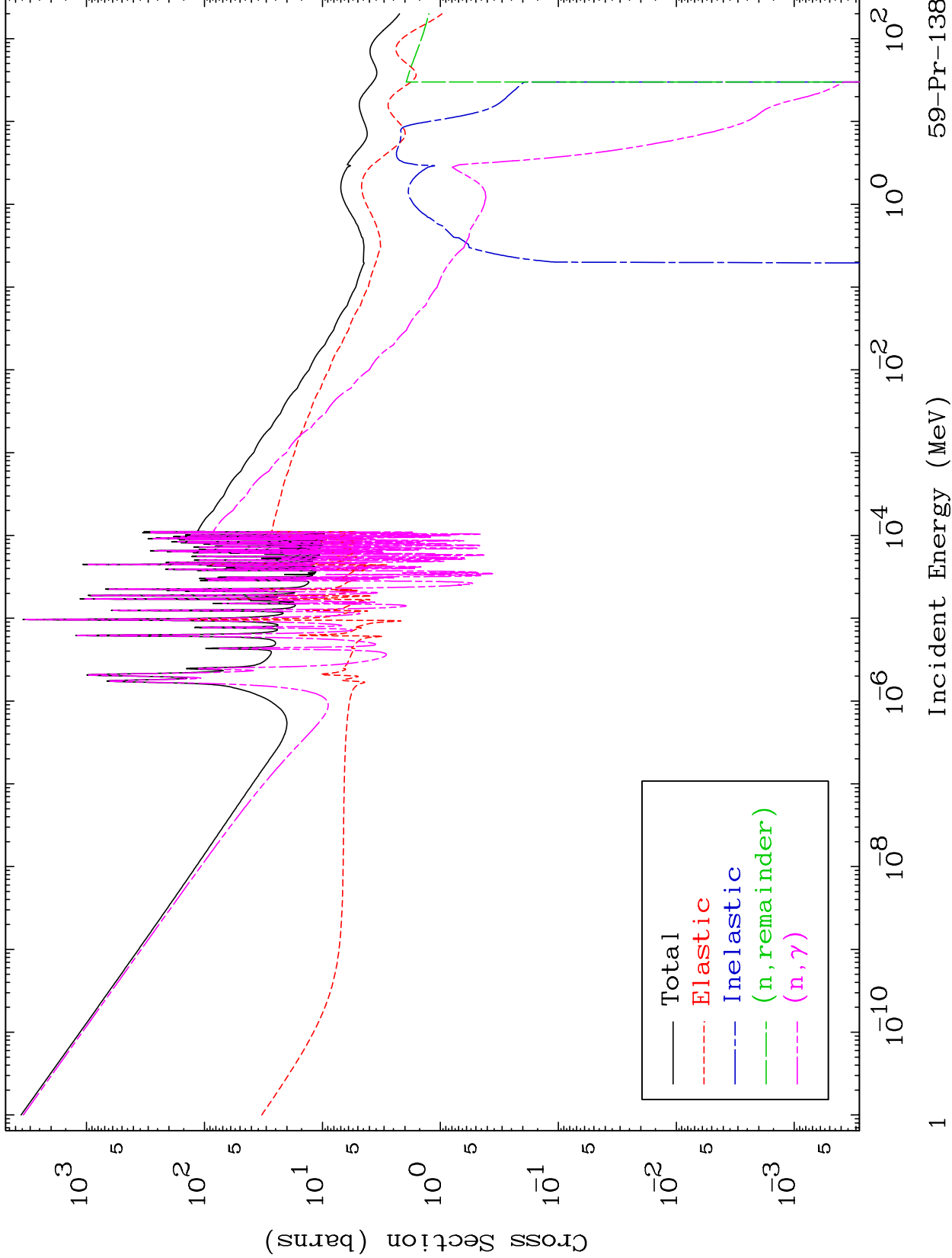
Press Mouse Button to Start

MAT 5916

Major

293 Kelvin Cross Sections

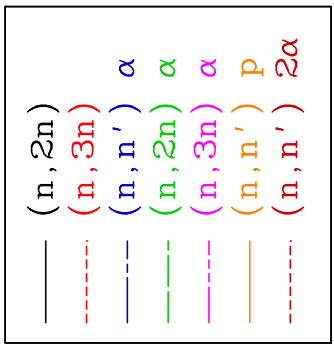
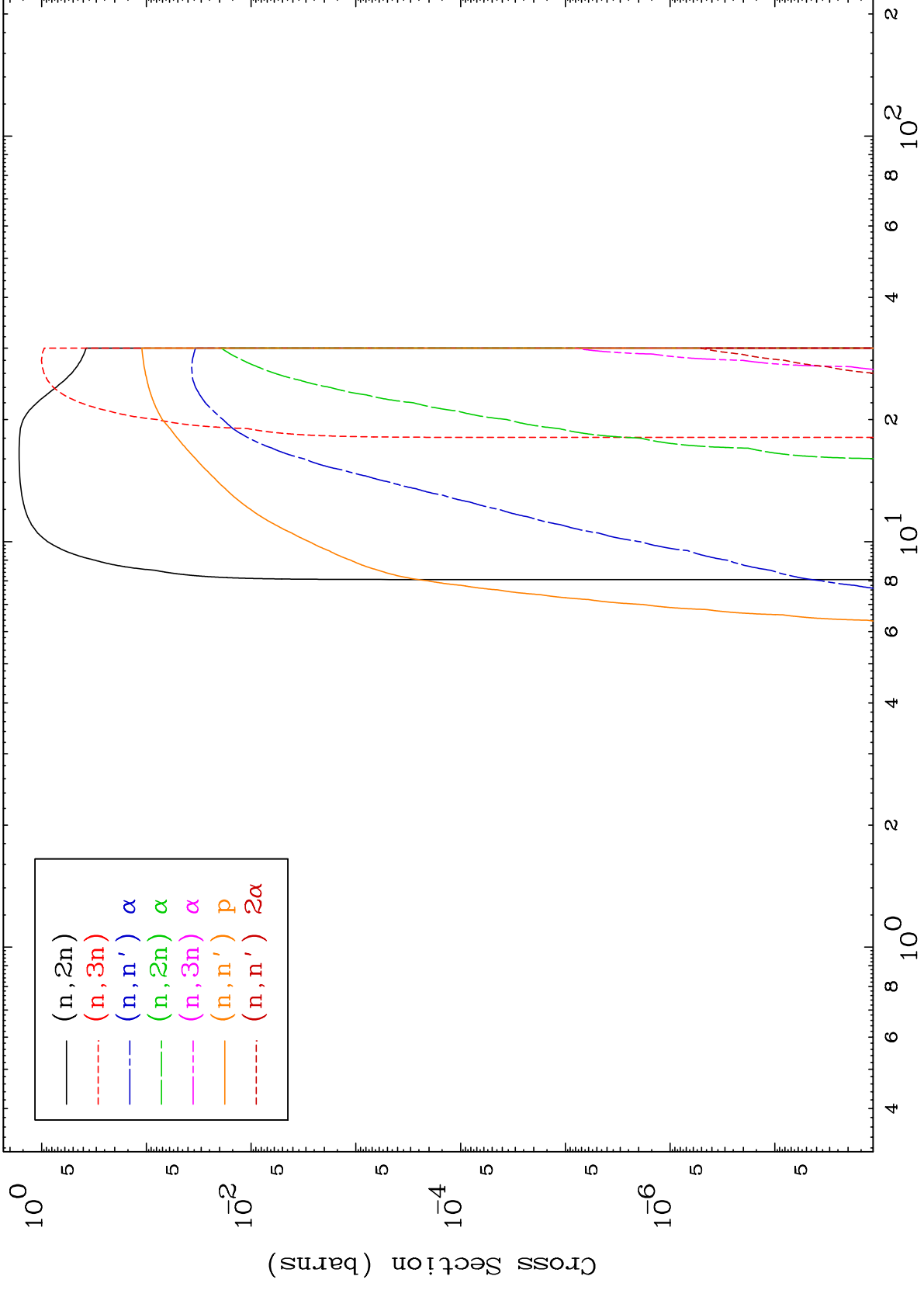
59-Pr-138



MAT 5916

Neutron Production
293 Kelvin Cross Sections

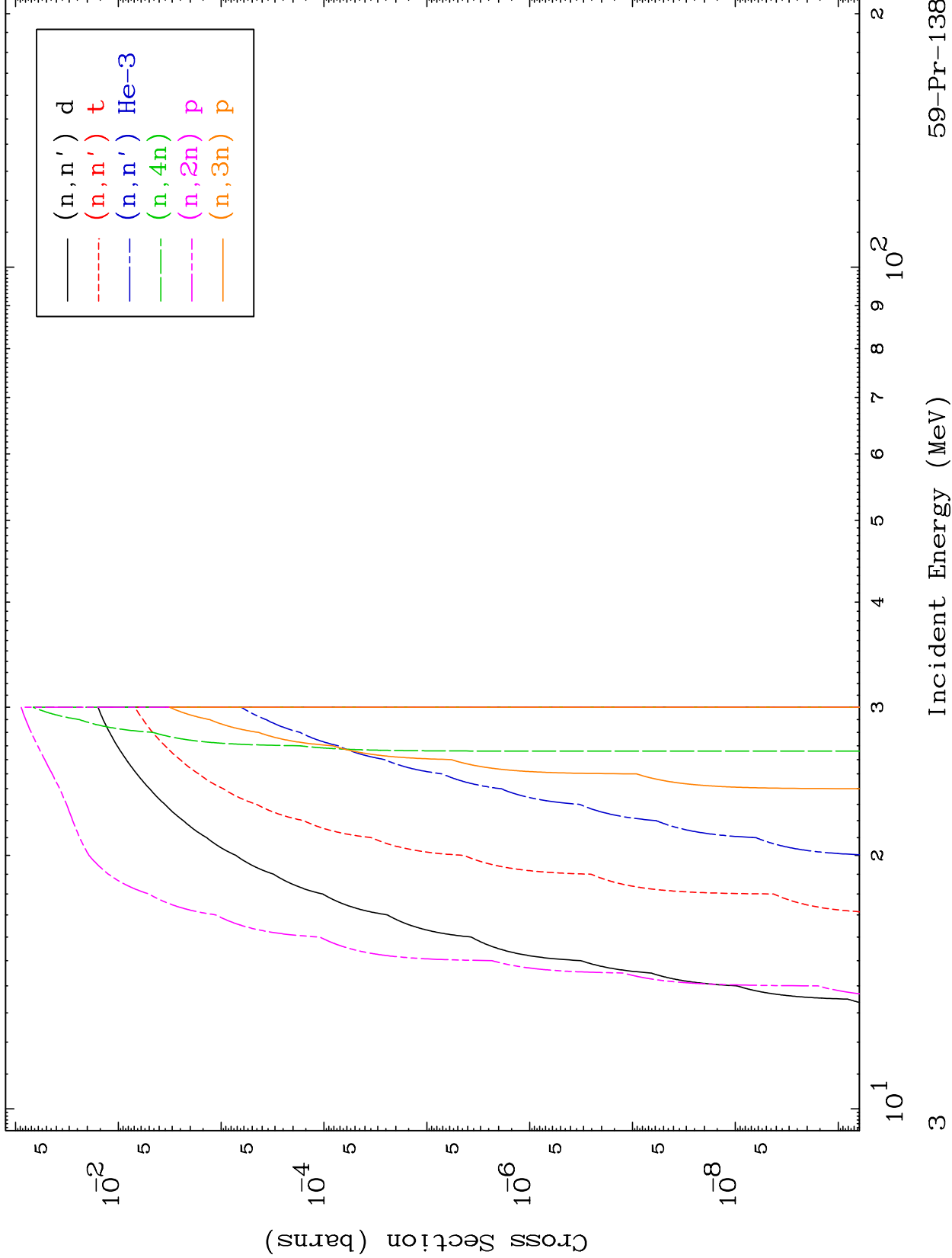
59-Pr-138

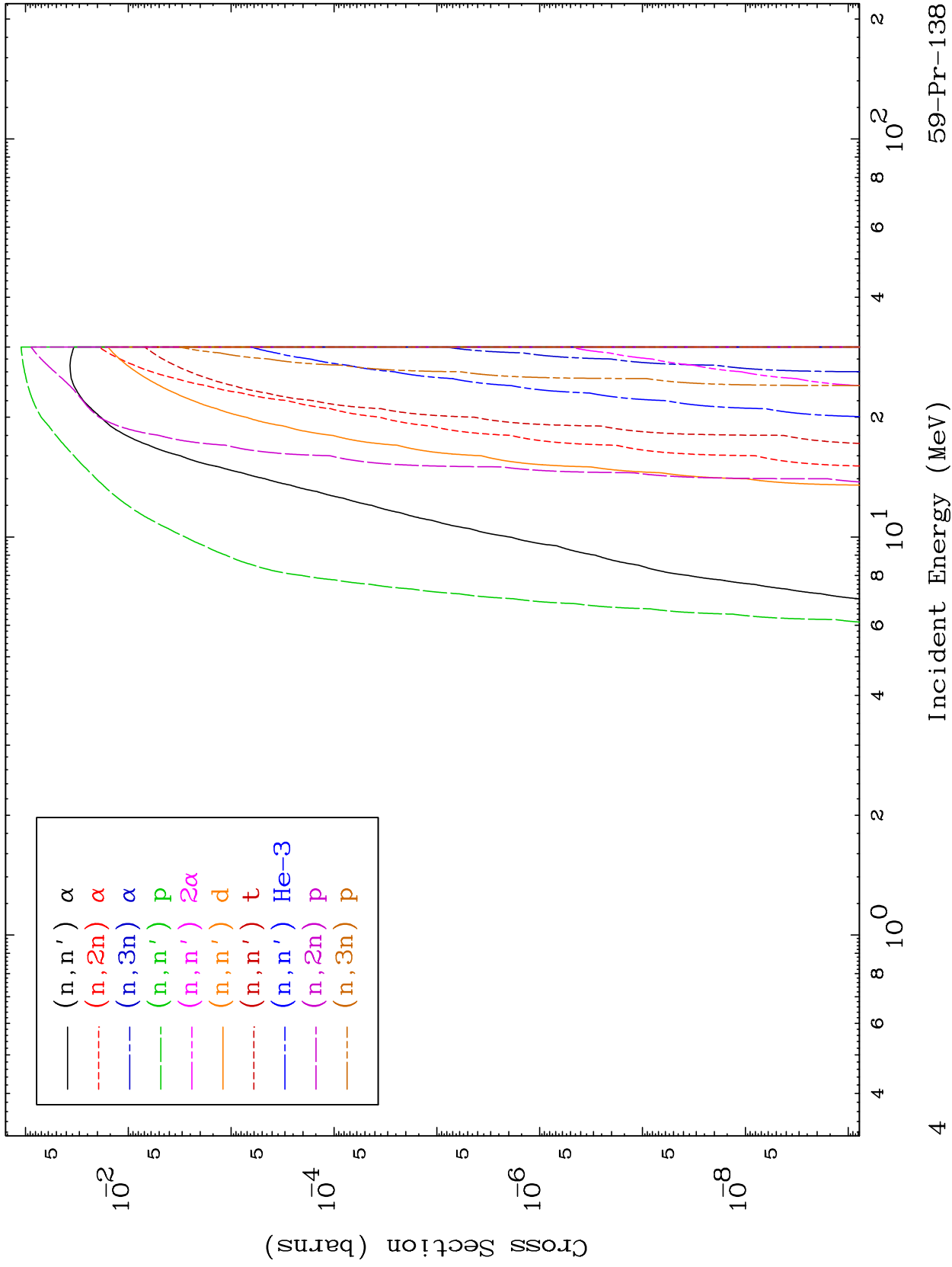


59-Pr-138

Incident Energy (MeV)

2

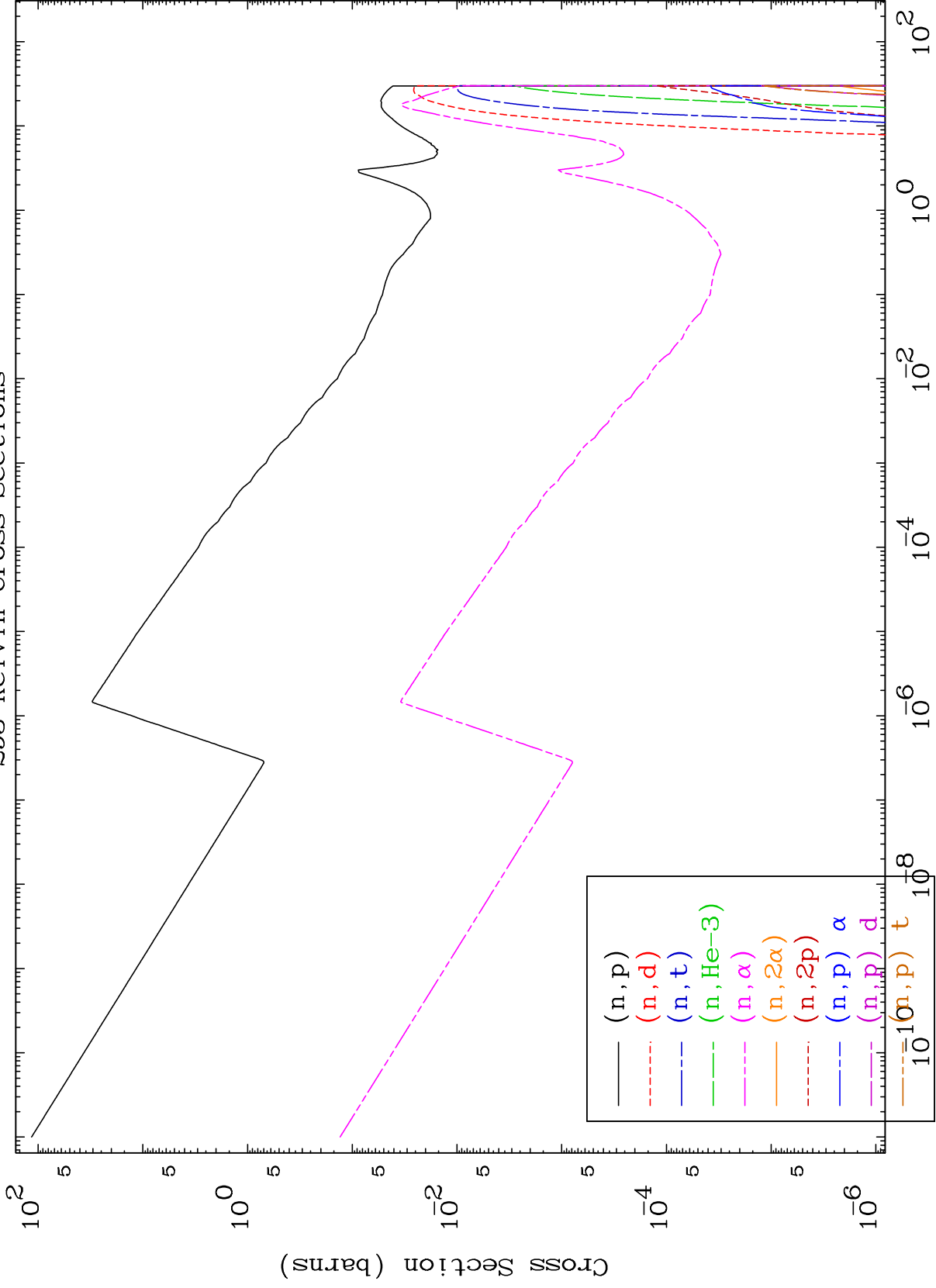


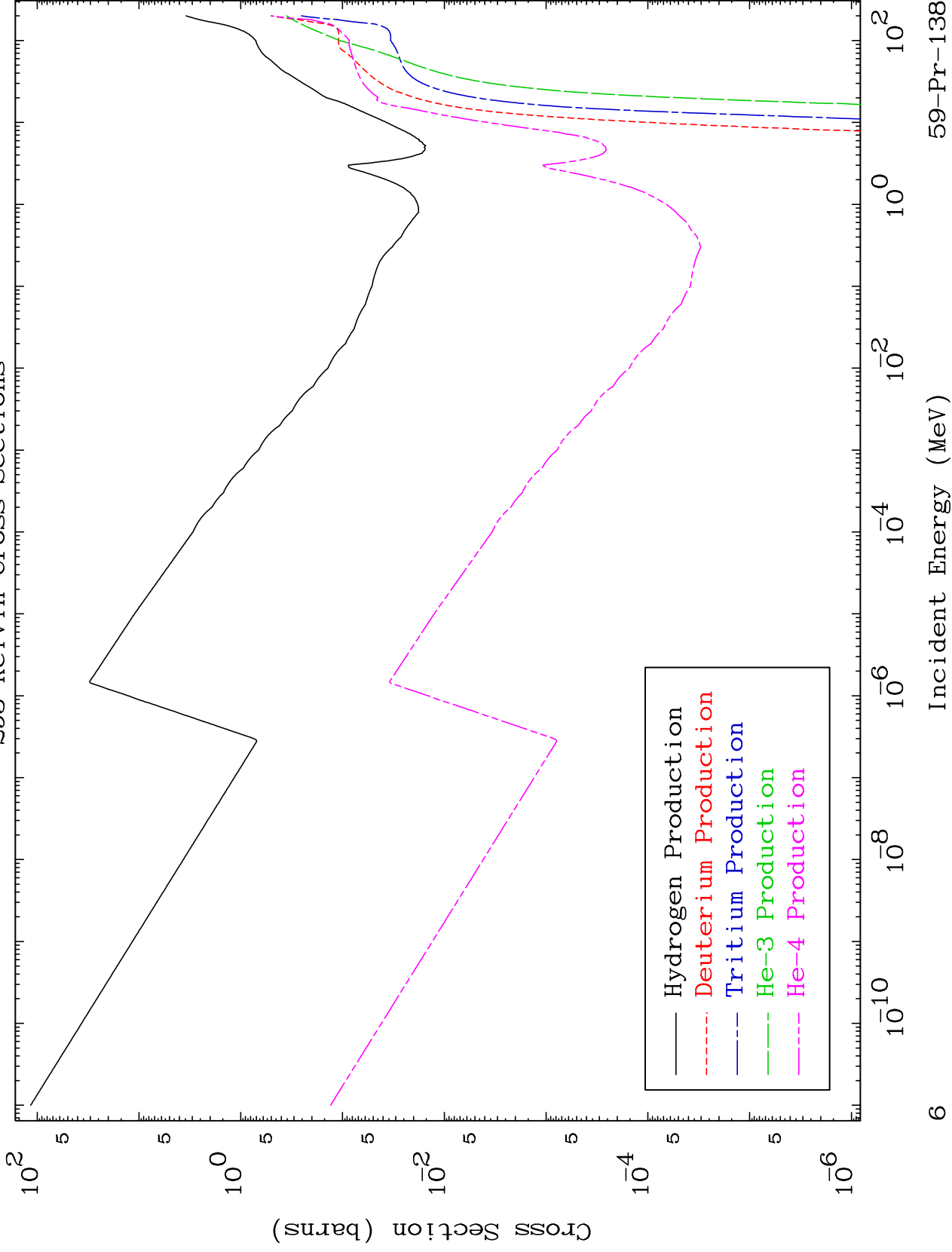


MAT 5916

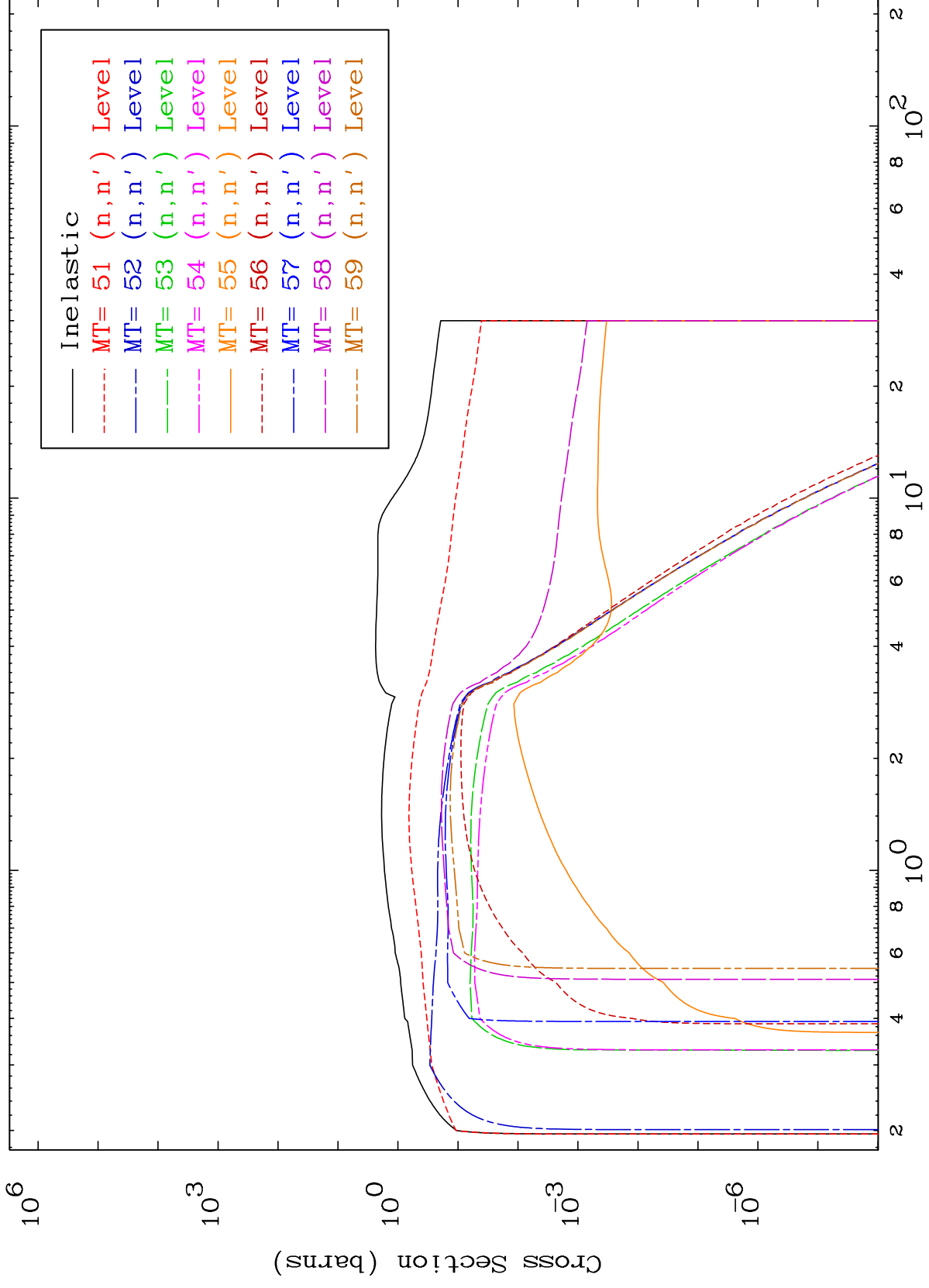
Charged Particle
293 Kelvin Cross Sections

59-Pr-138





293 Kelvin Cross Sections

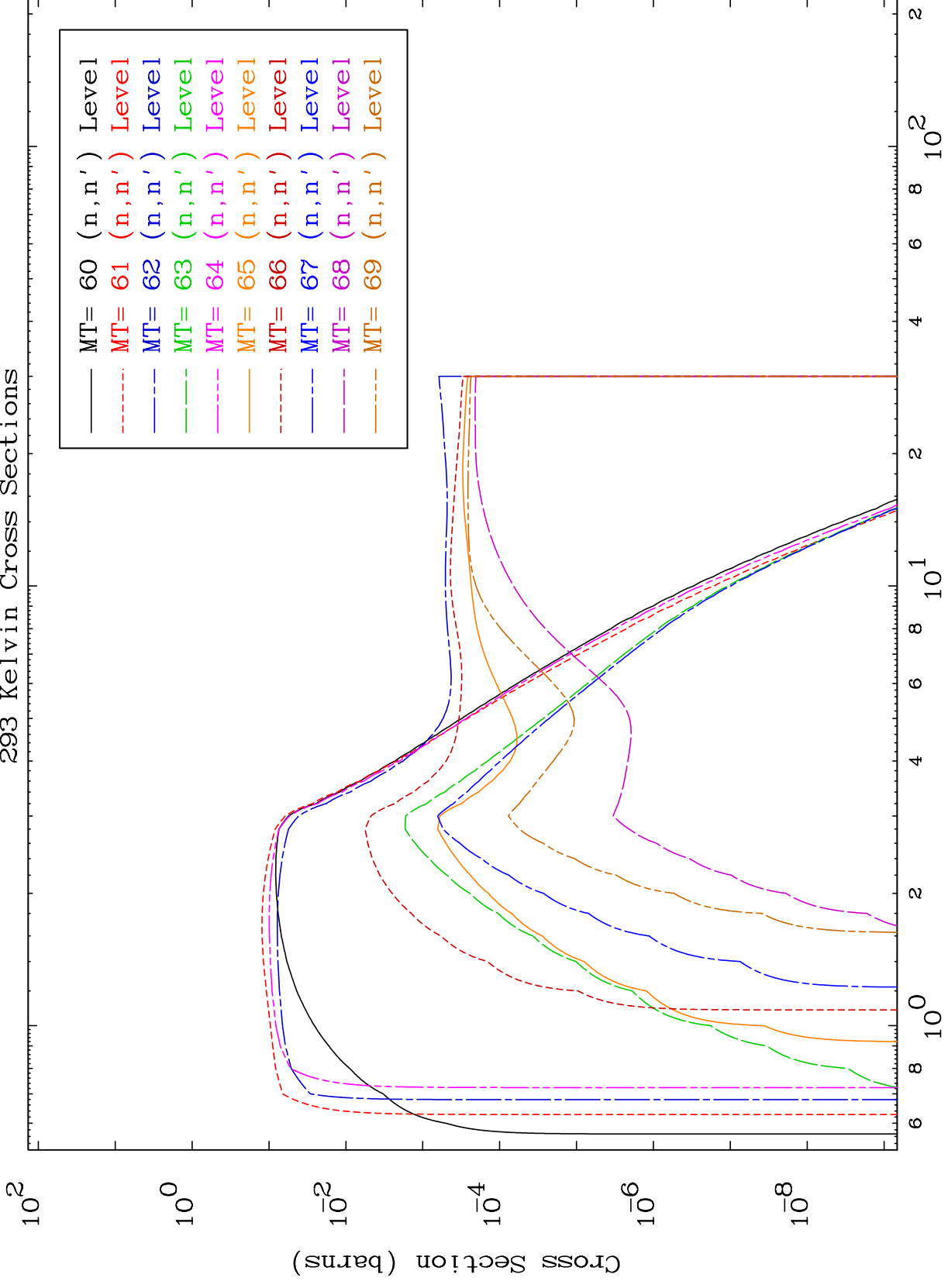


MAT 5916

(n,n') Level

59-Pr-138

293 Kelvin Cross Sections

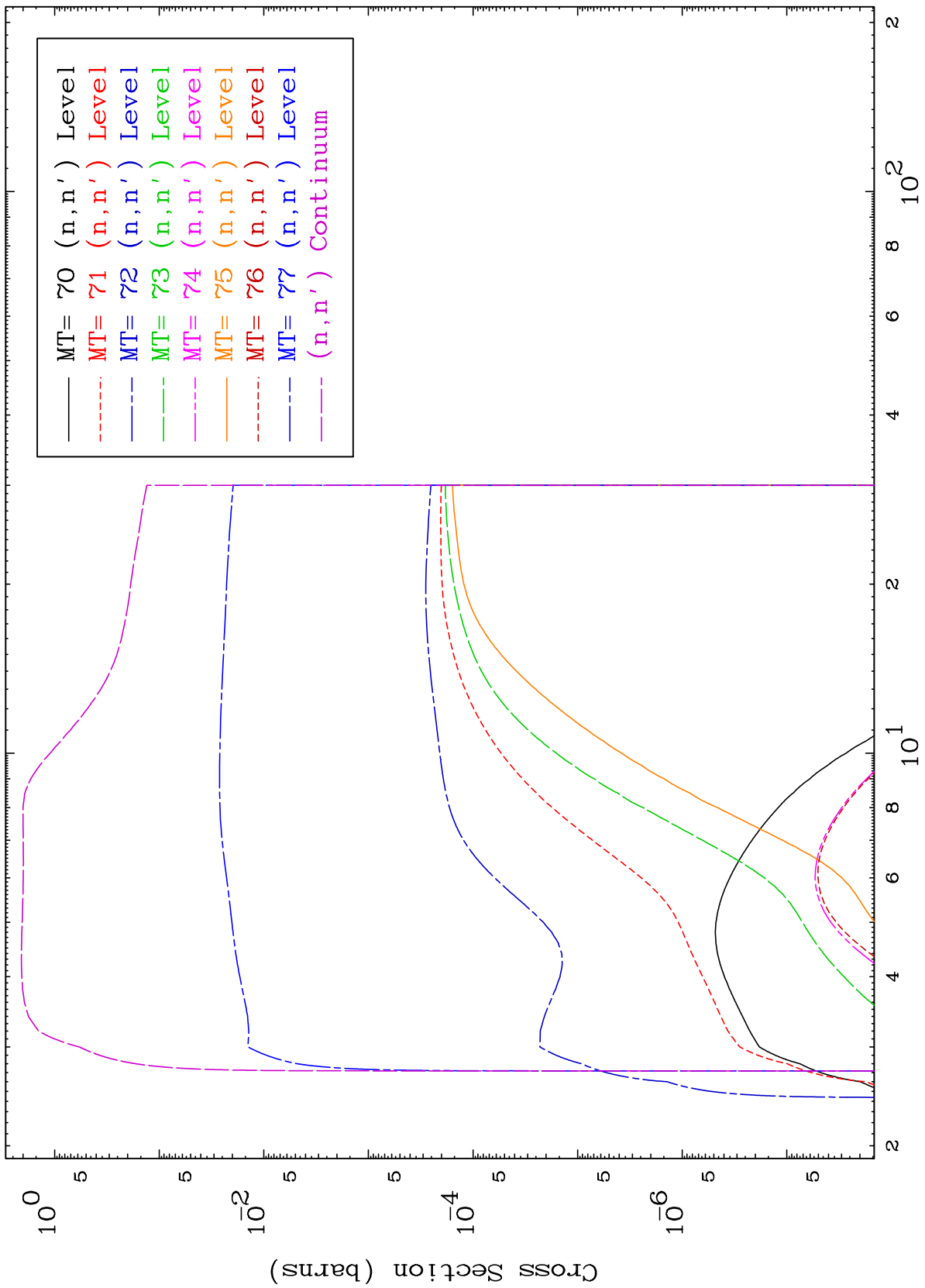


8

Incident Energy (MeV)

59-Pr-138

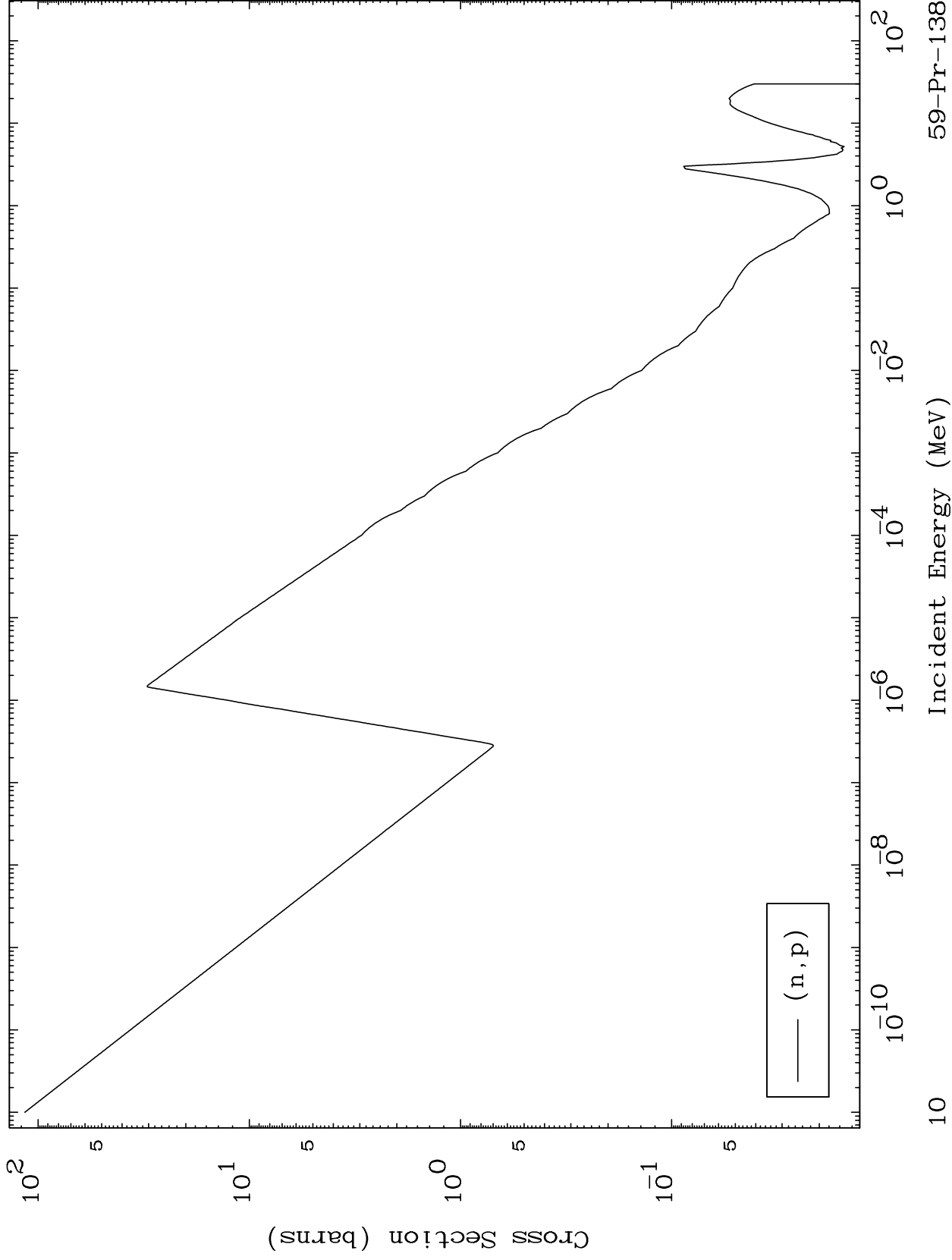
293 Kelvin Cross Sections



MAT 5916

(n,p) Levels
293 Kelvin Cross Sections

59-Pr-138



10

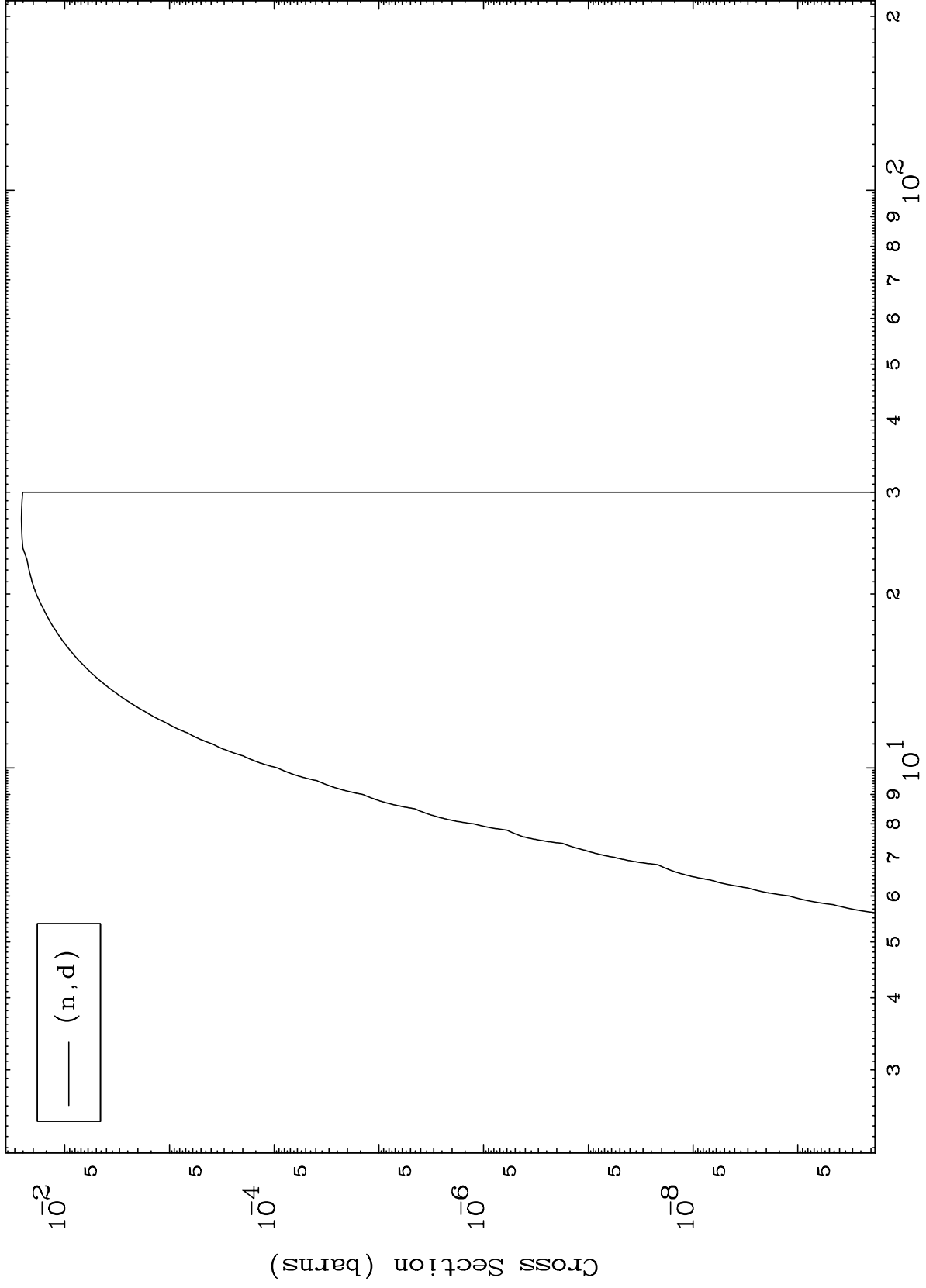
Incident Energy (MeV)

59-Pr-138

MAT 5916

(n,d) Levels
293 Kelvin Cross Sections

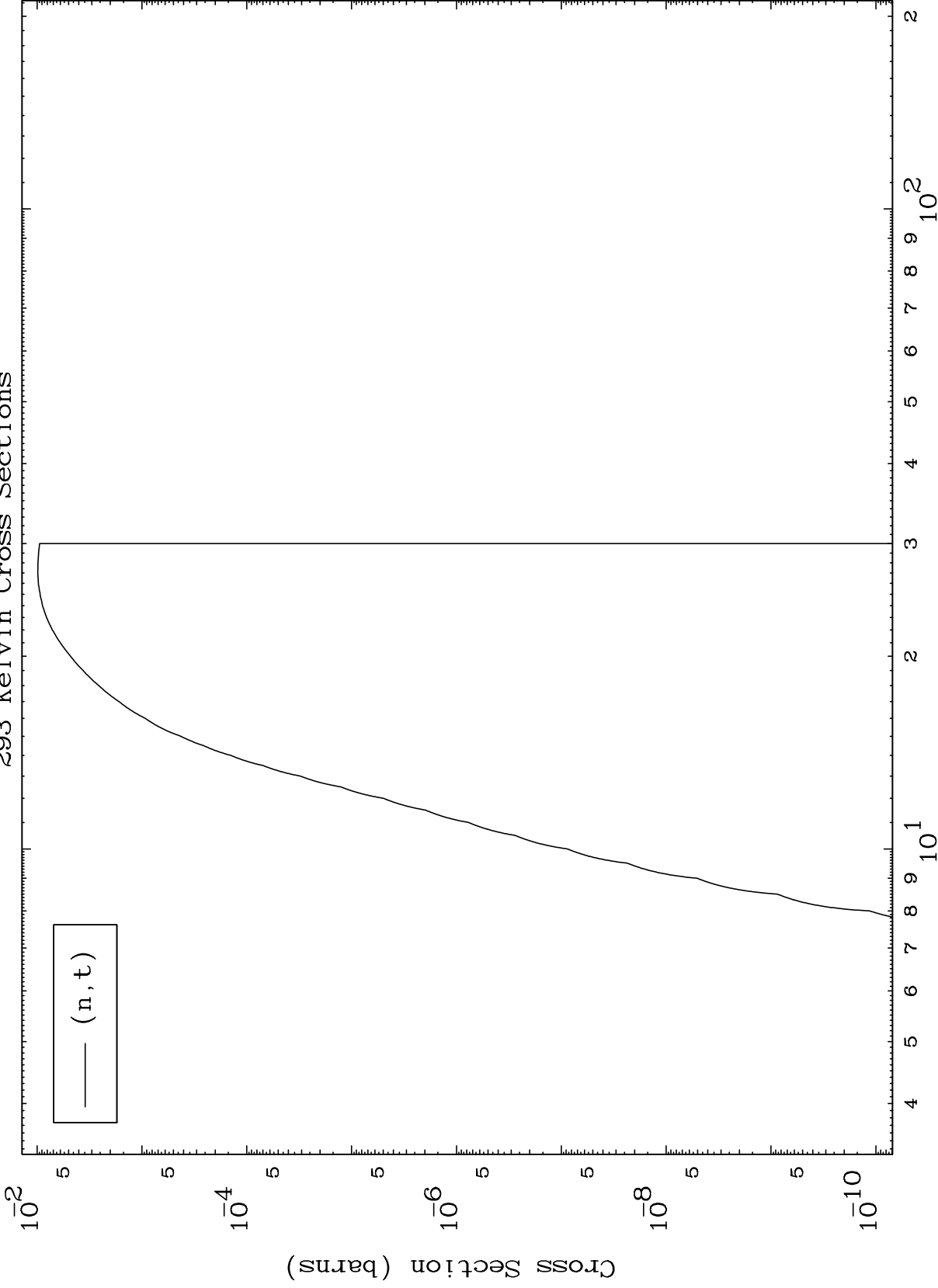
59-Pr-138



MAT 5916

(n,t) Levels
293 Kelvin Cross Sections

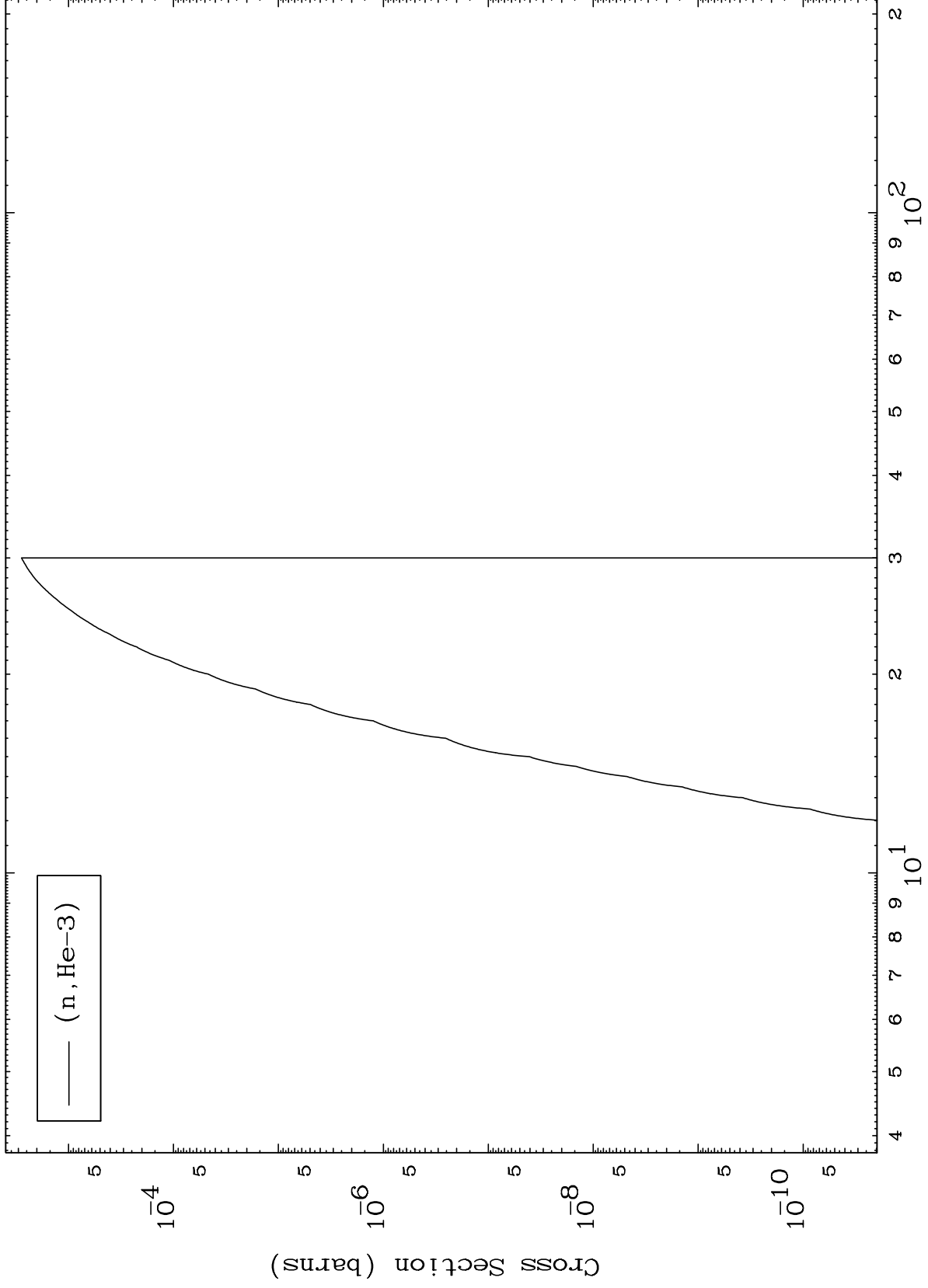
59-Pr-138



12

Incident Energy (MeV)

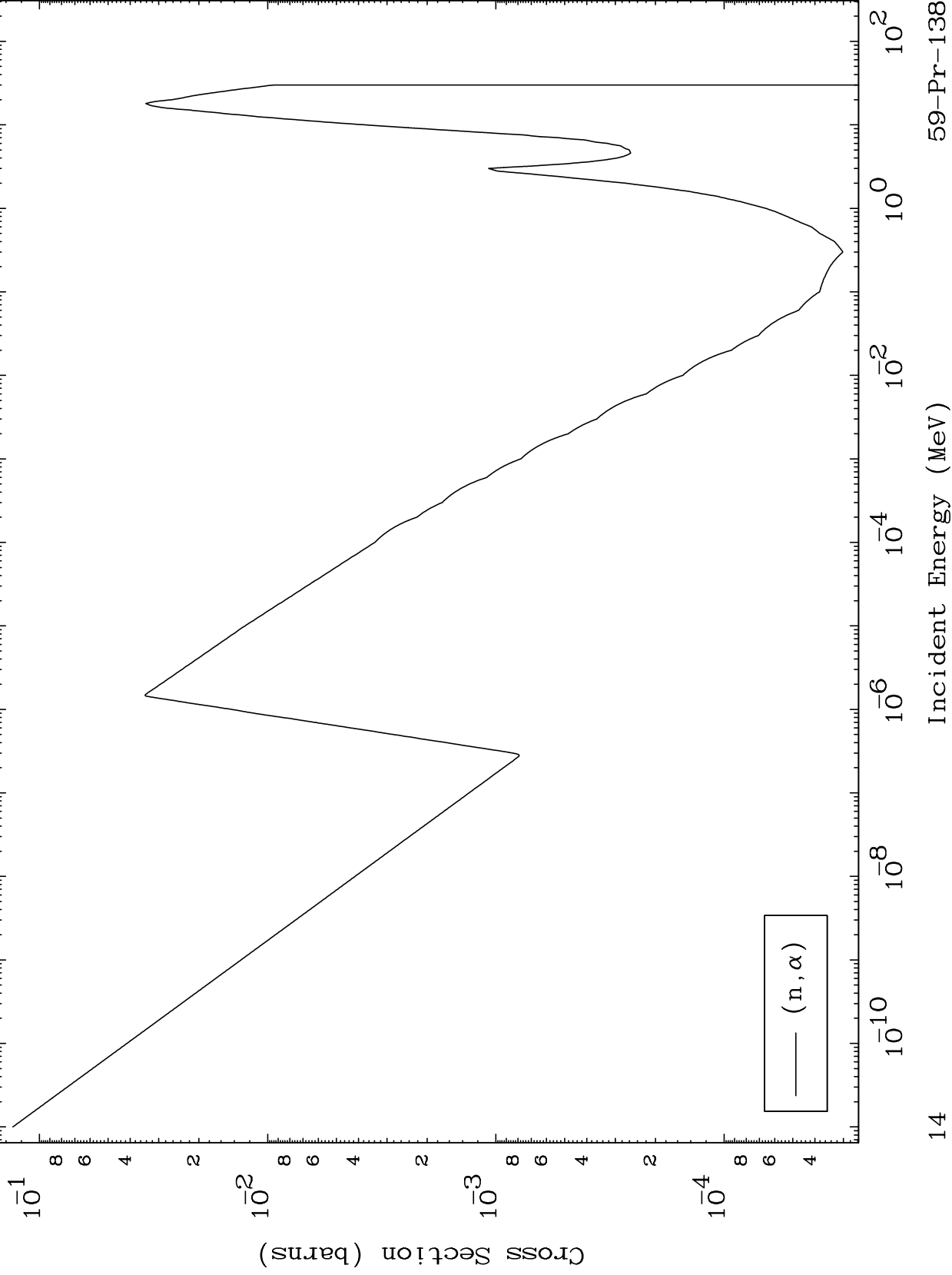
59-Pr-138

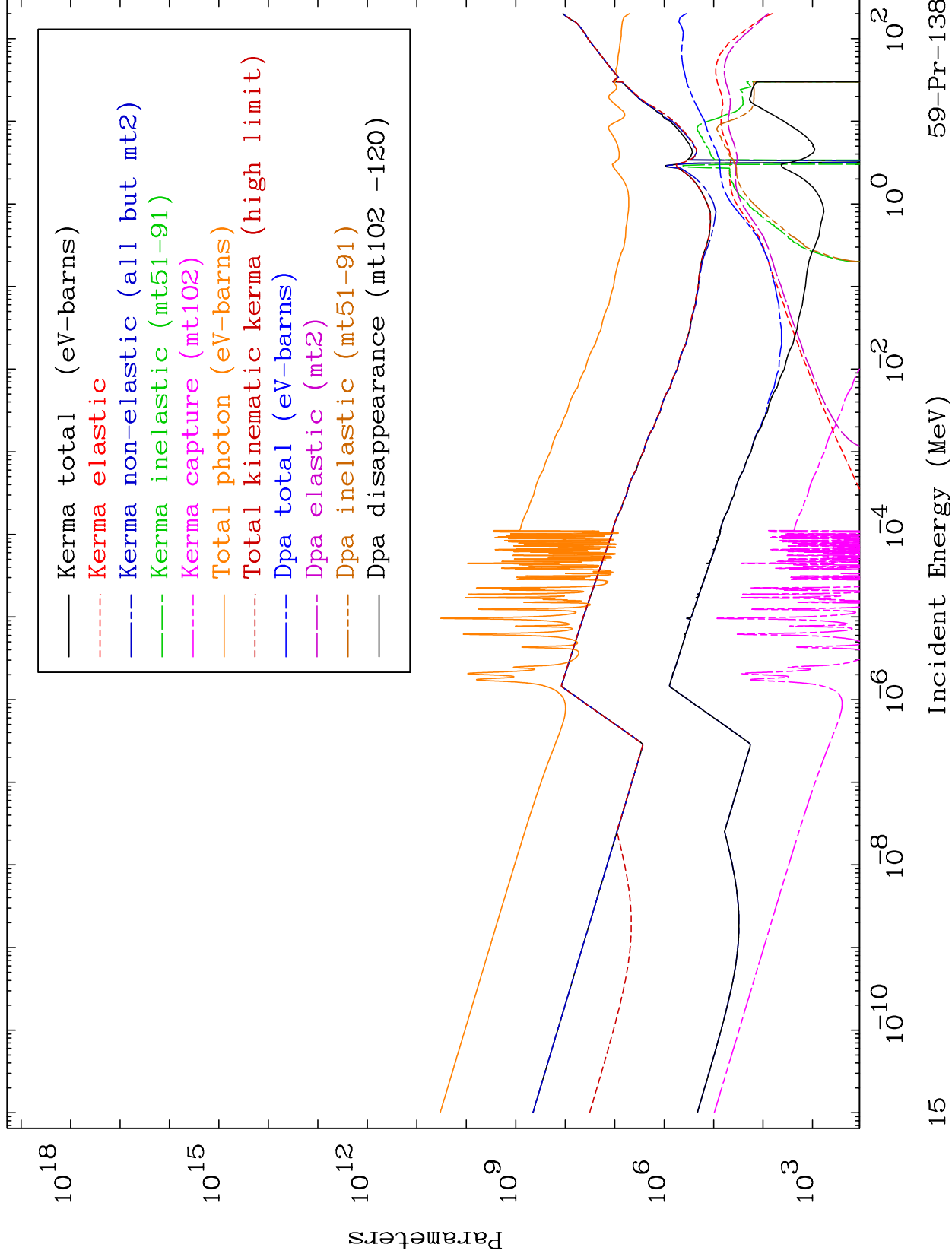


MAT 5916

(n, α) Levels
293 Kelvin Cross Sections

59-Pr-138

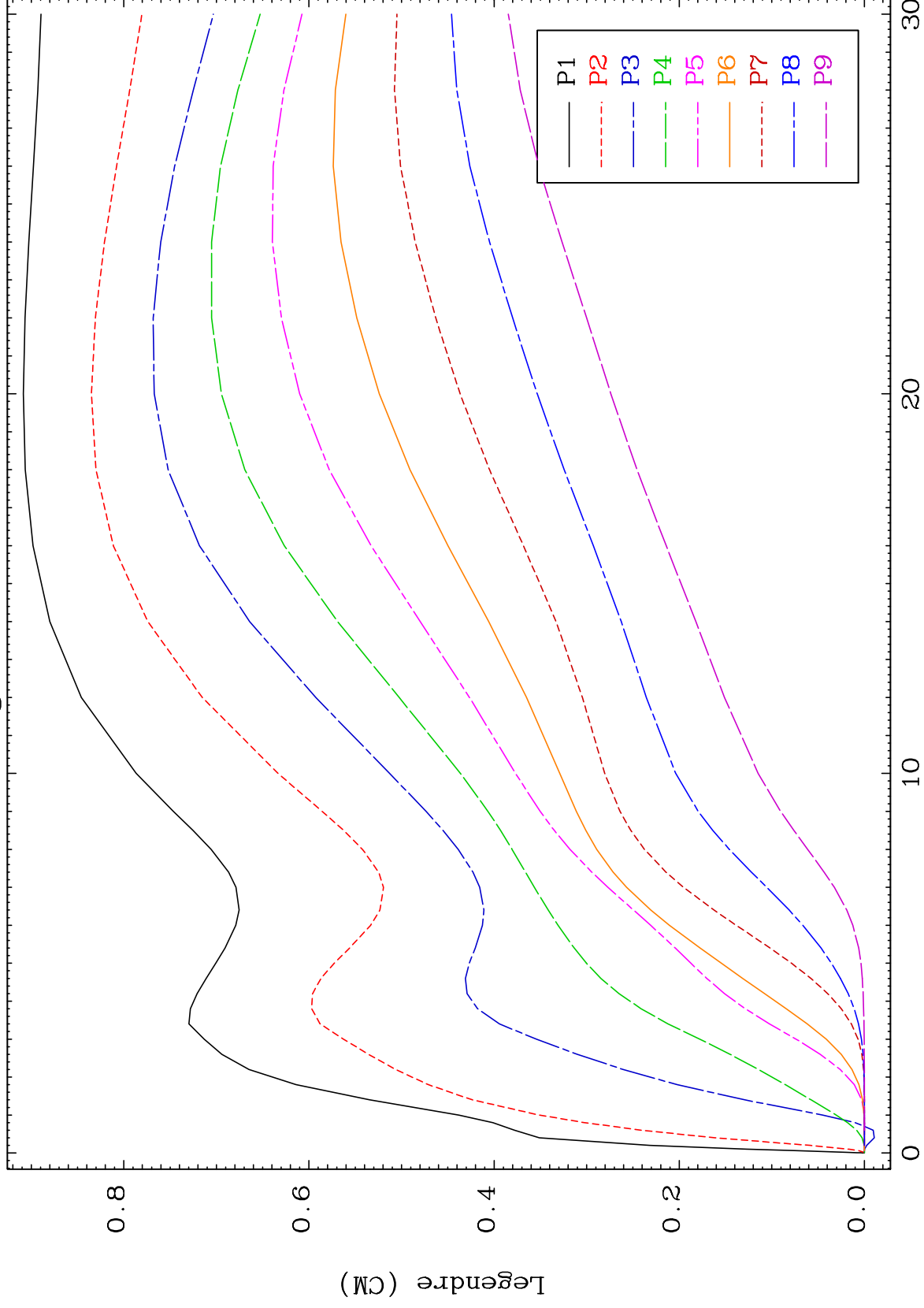




MAT 5916

Elastic Legendre Coefficients

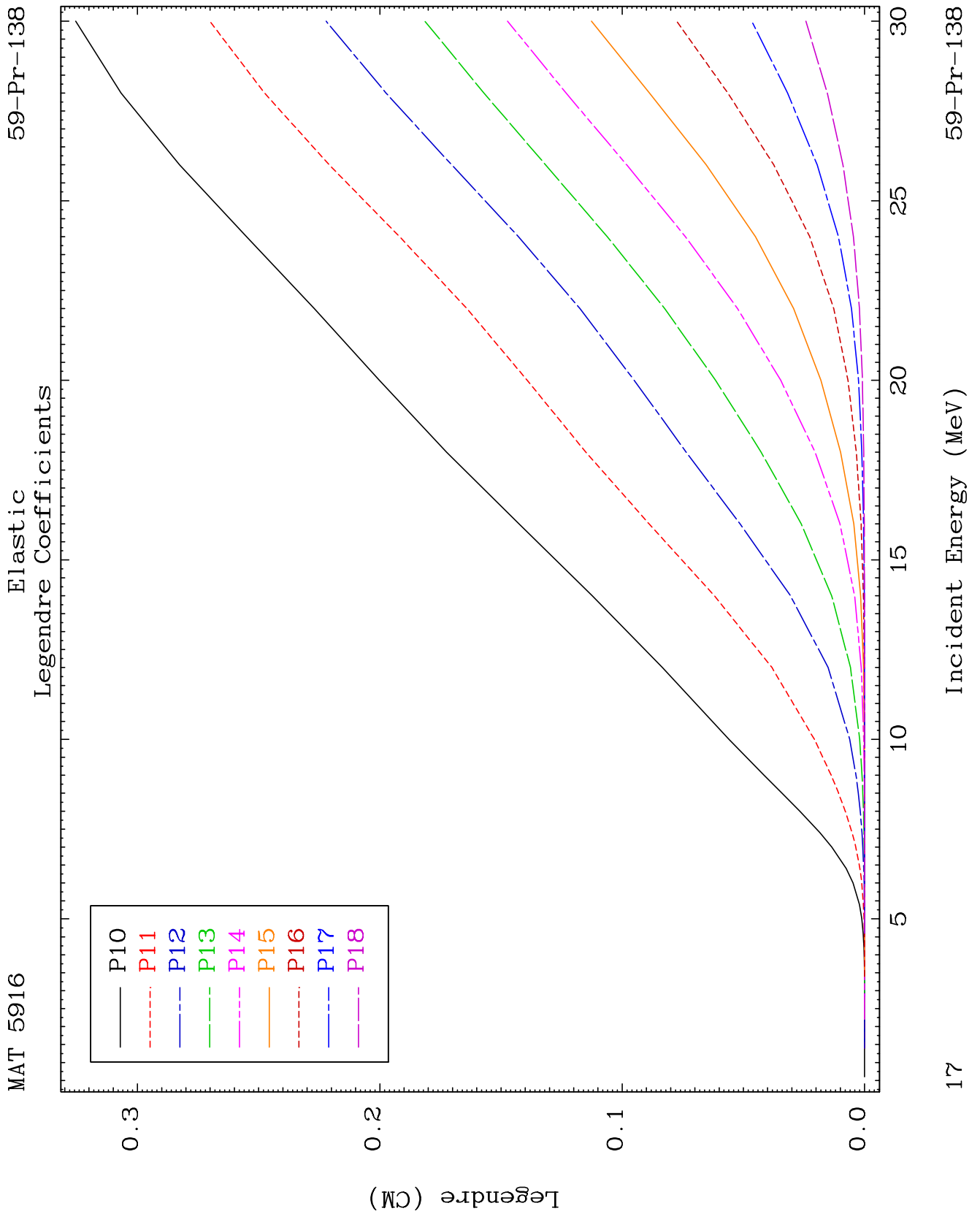
59-Pr-138



16

Incident Energy (MeV)

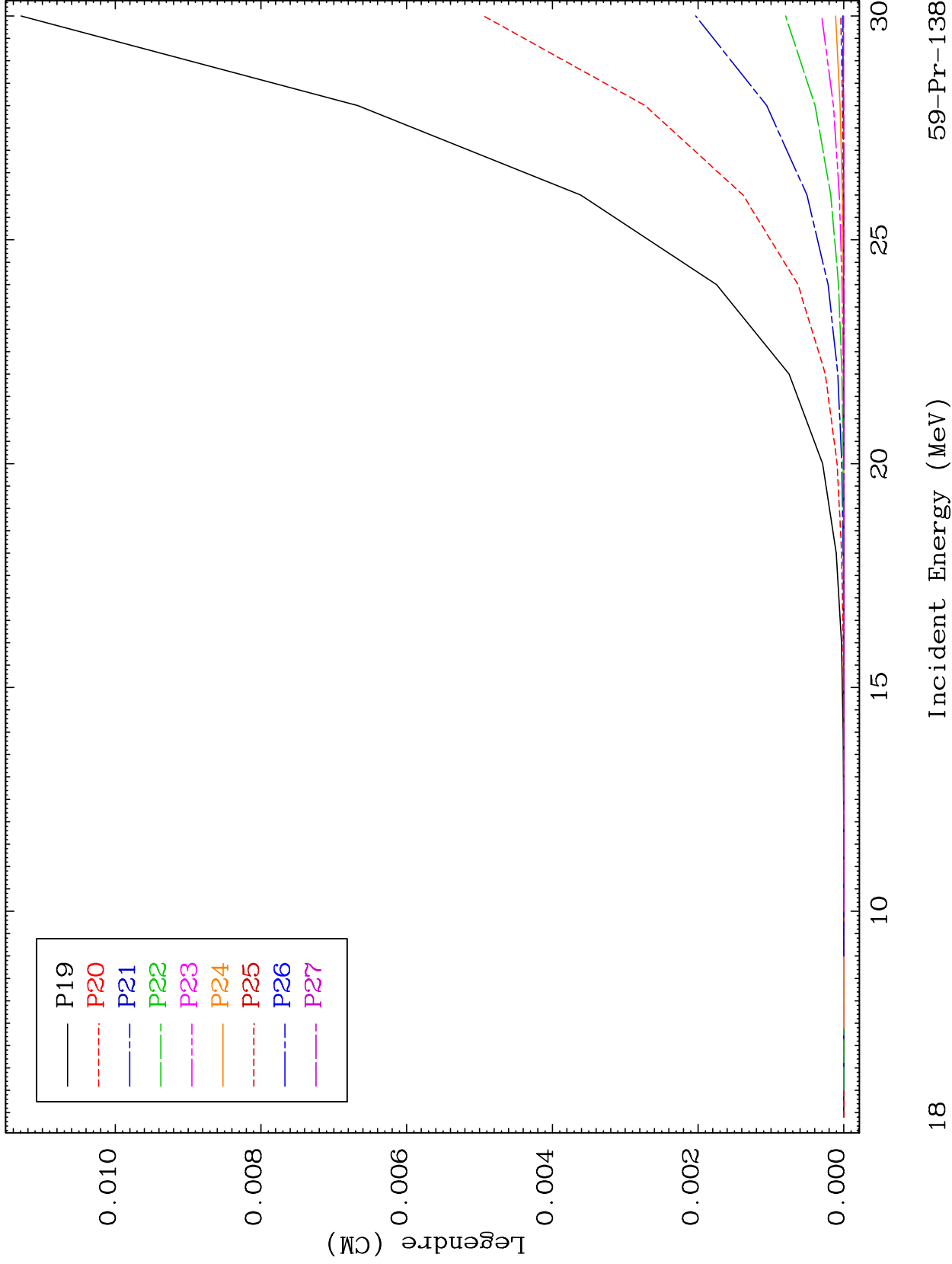
59-Pr-138



MAT 5916

Elastic Legendre Coefficients

59-Pr-138



18

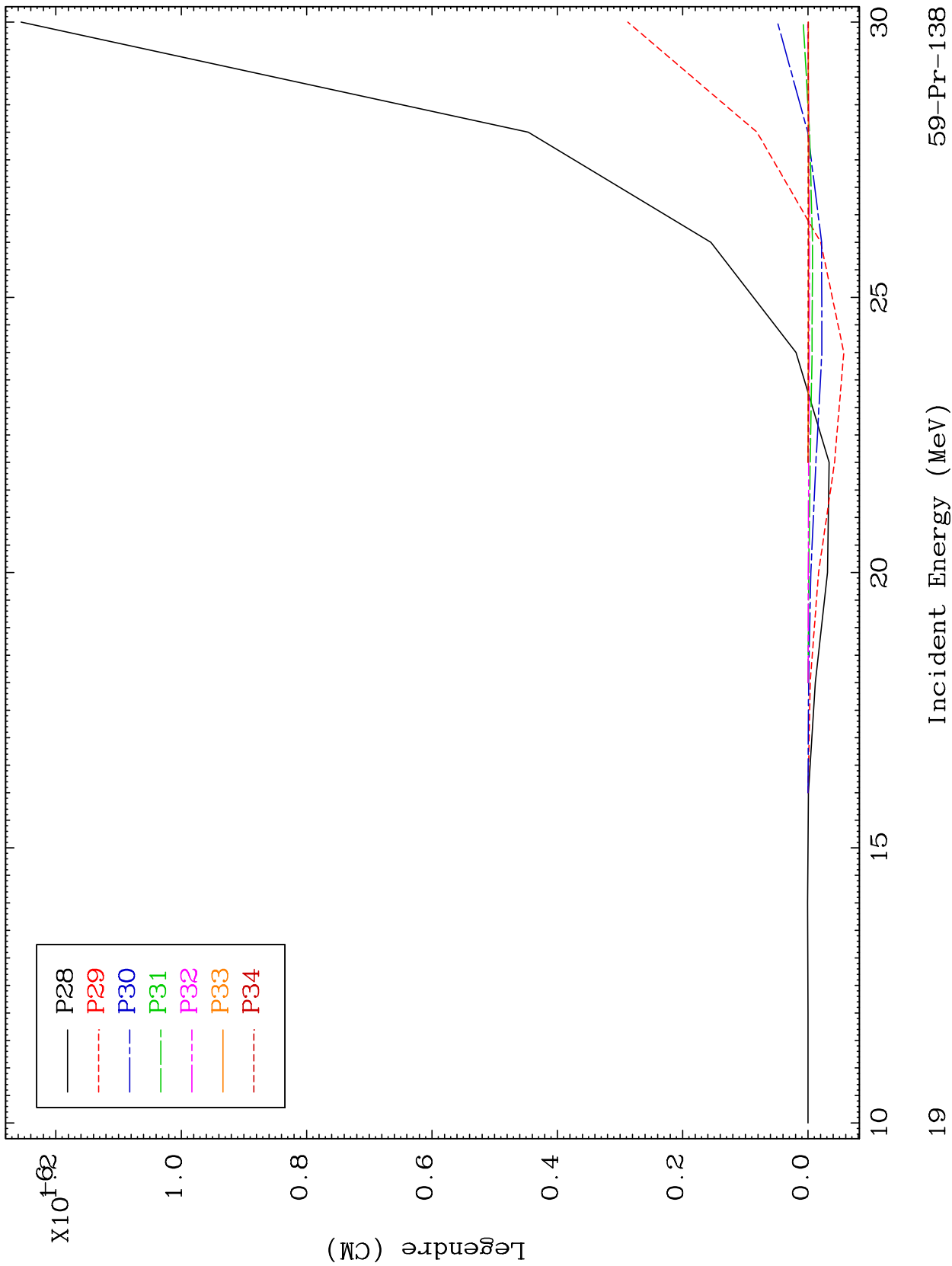
Incident Energy (MeV)

59-Pr-138

MAT 5916

Elastic Legendre Coefficients

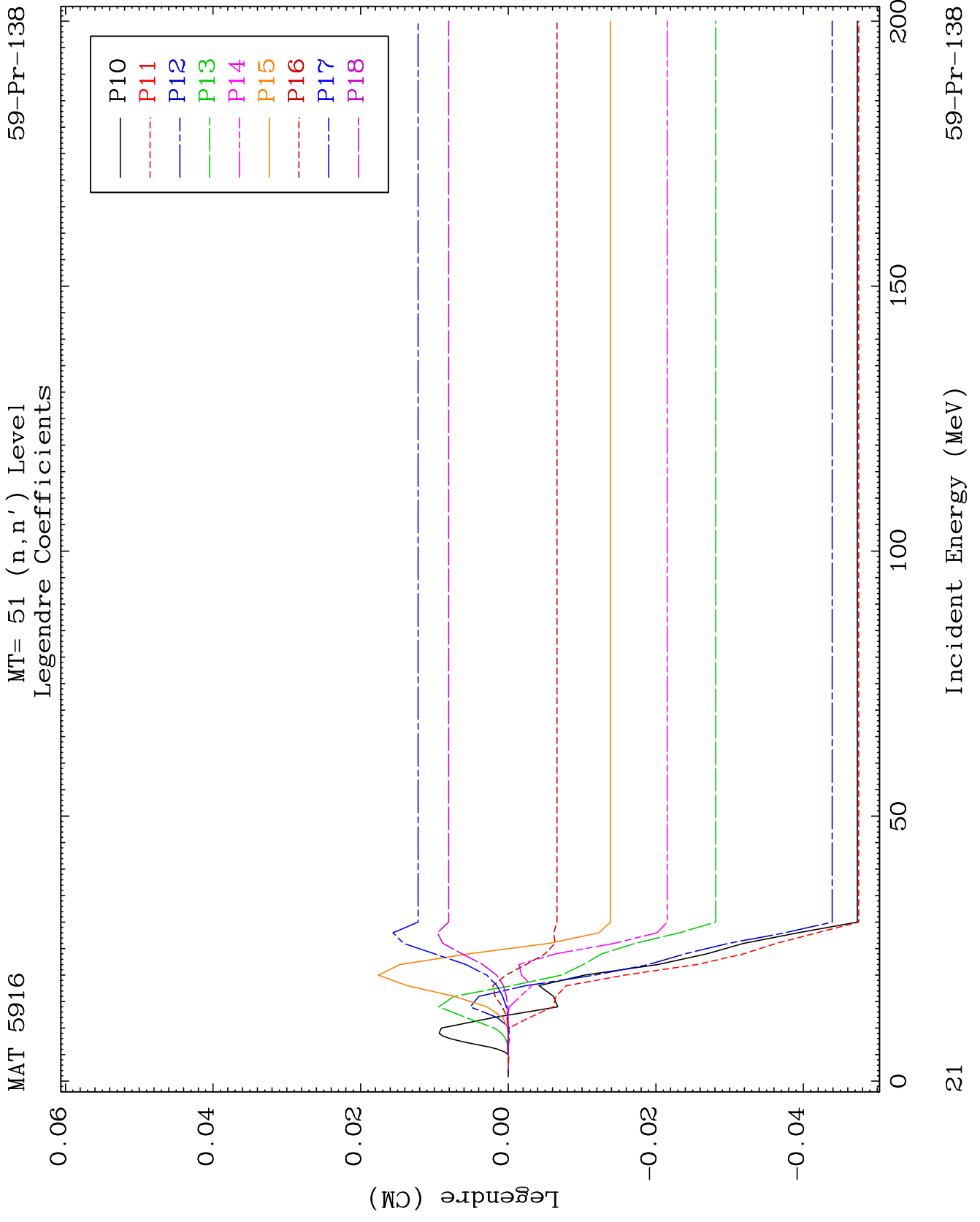
59-Pr-138

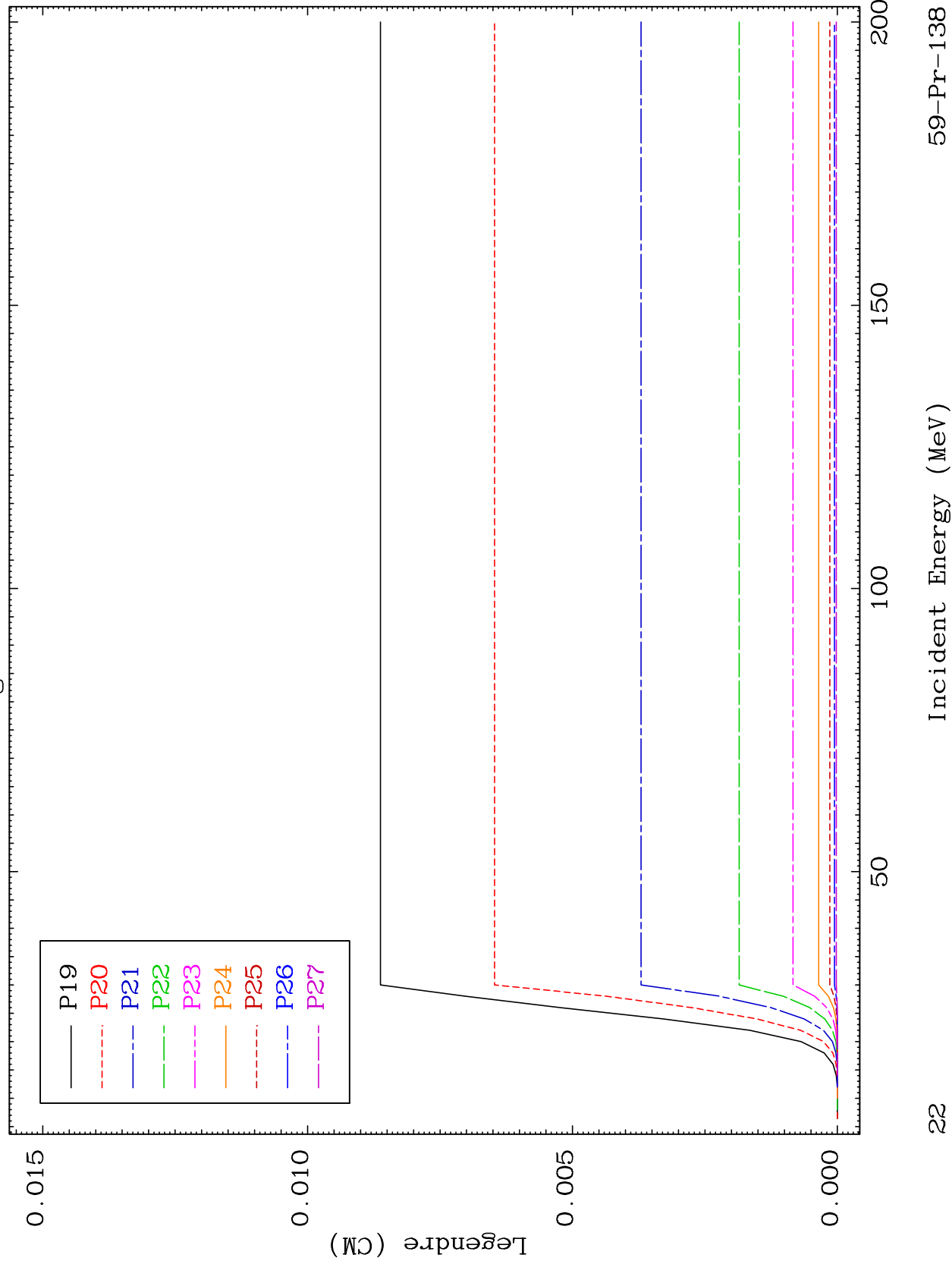


59-Pr-138

Incident Energy (MeV)

19

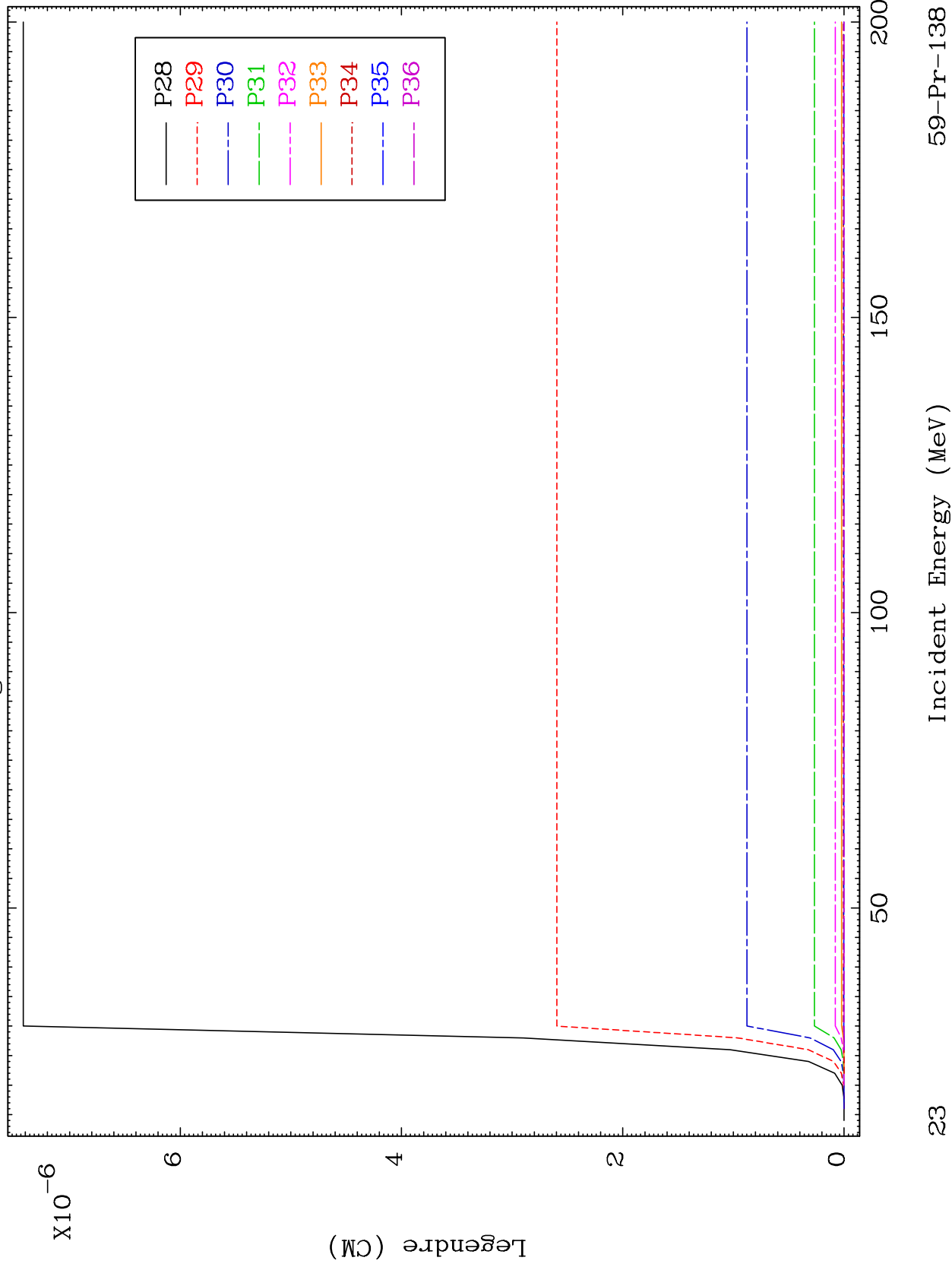


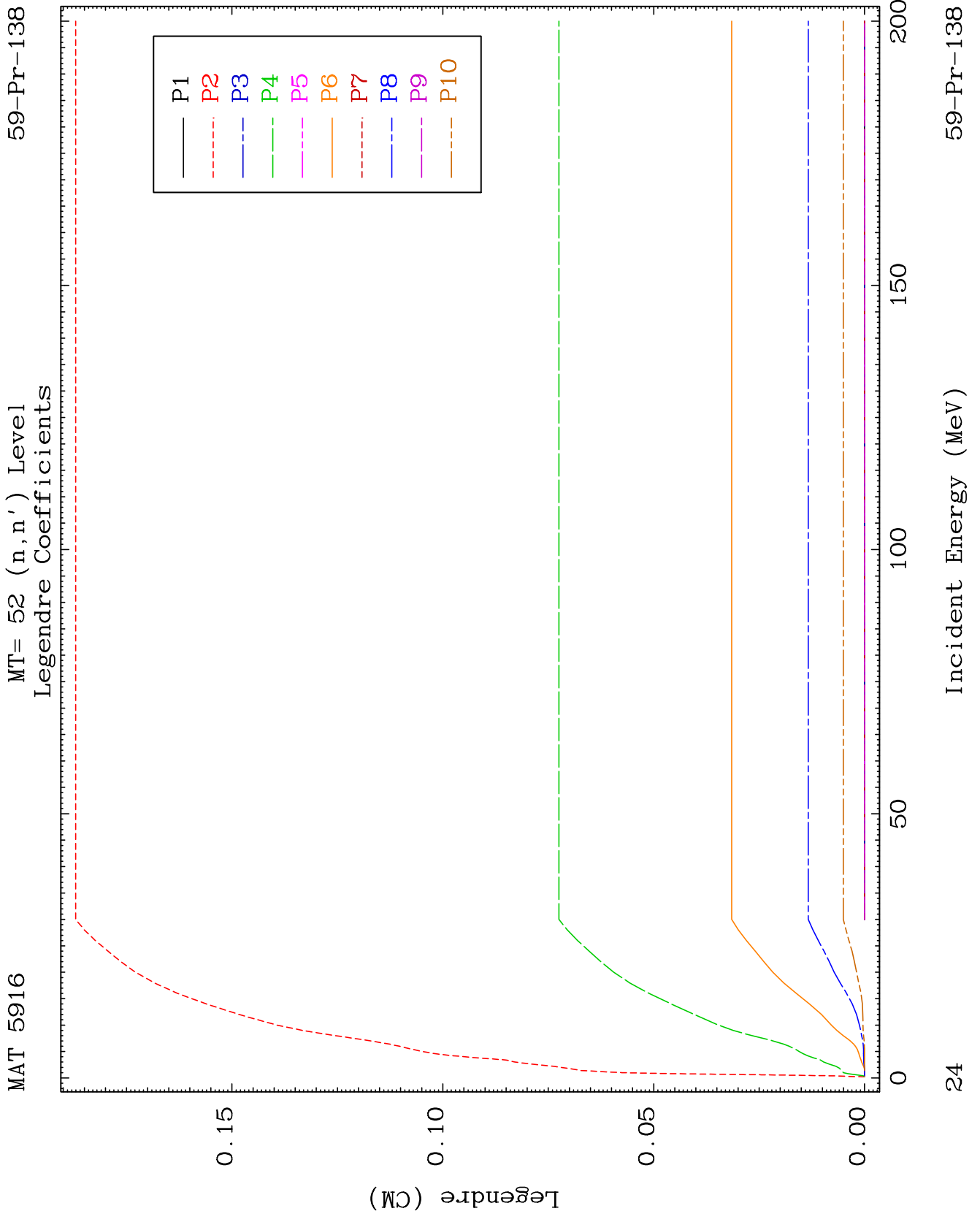


MAT 5916

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

59-Pr-138

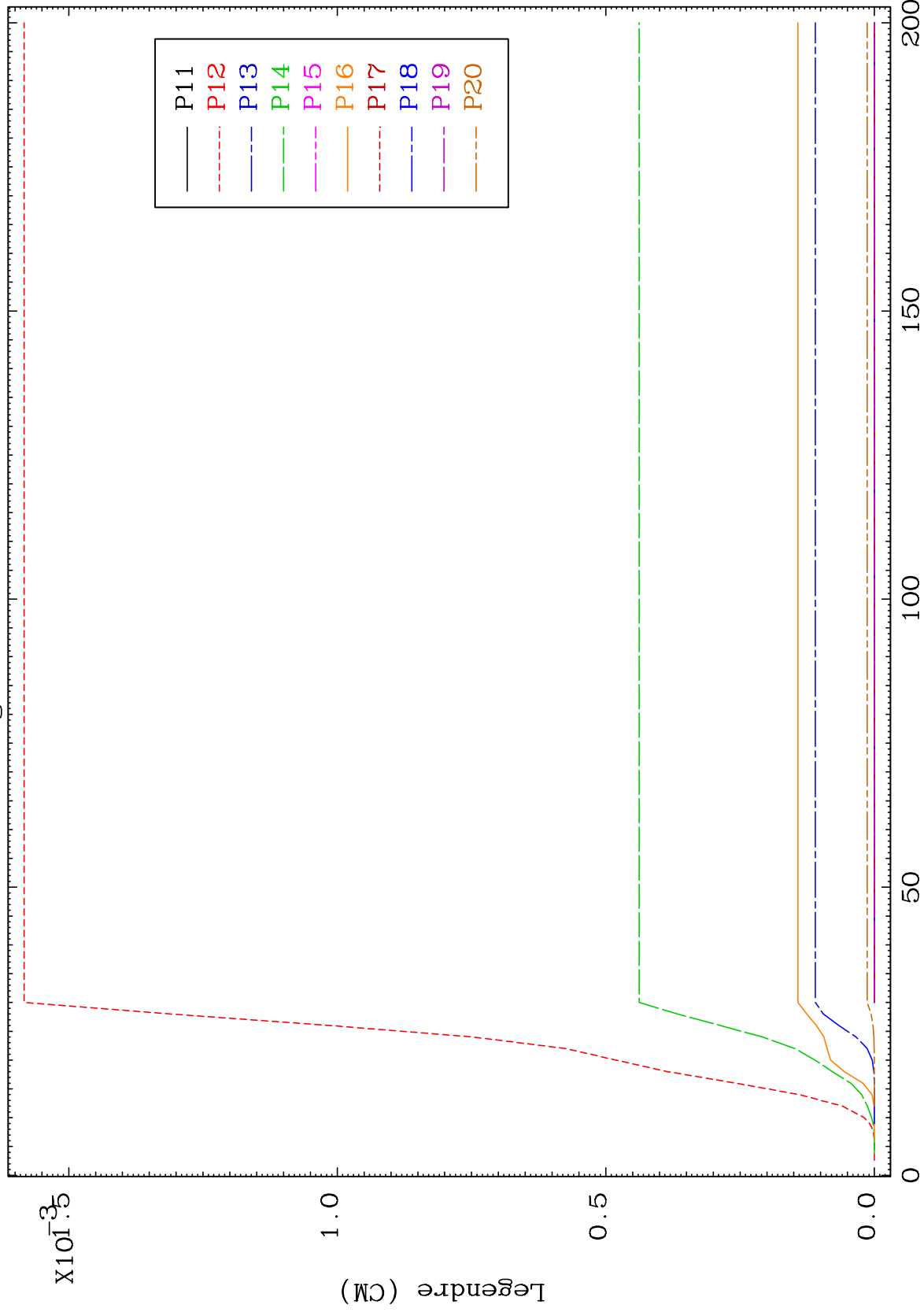




MAT 5916

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

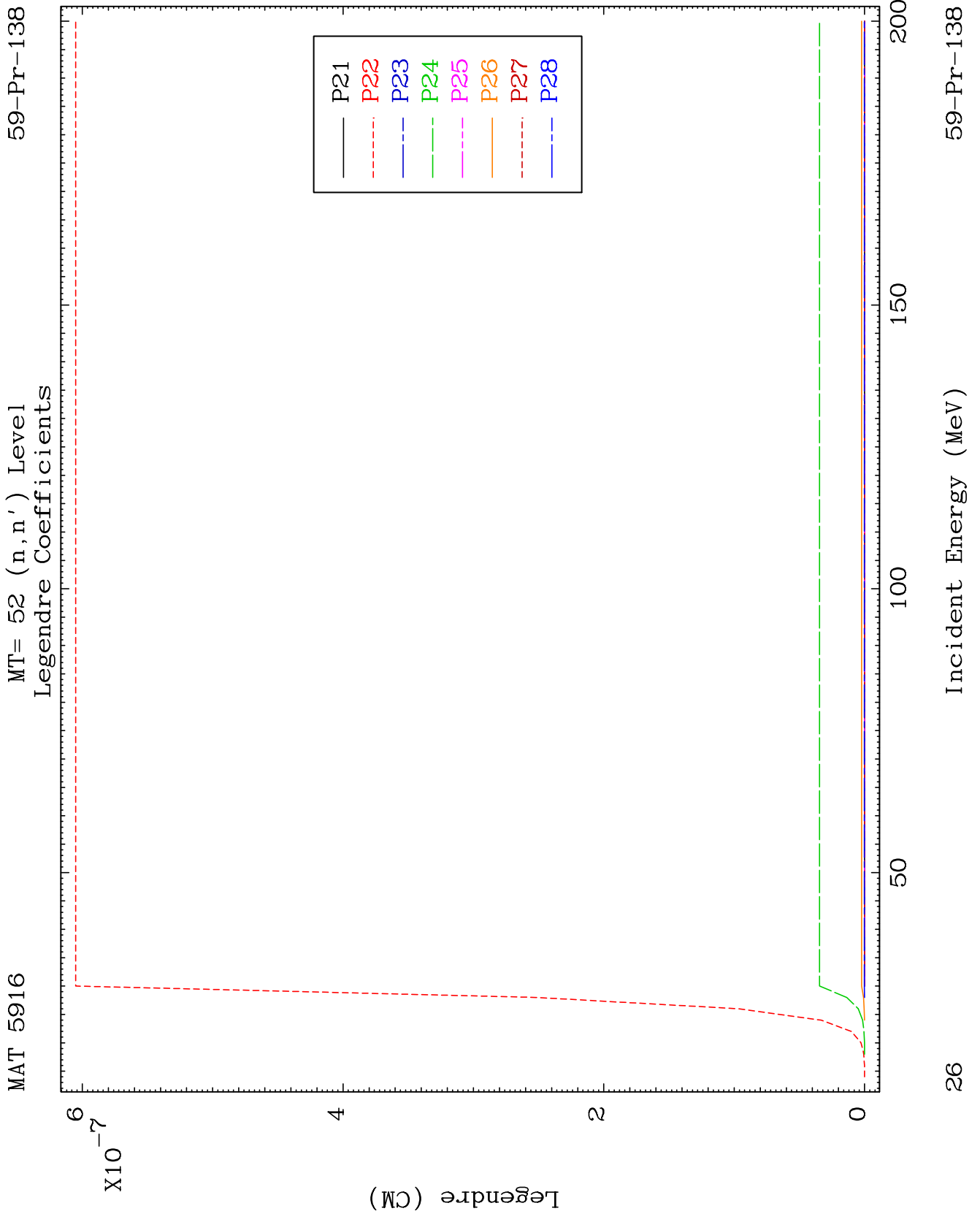
59-Pr-138

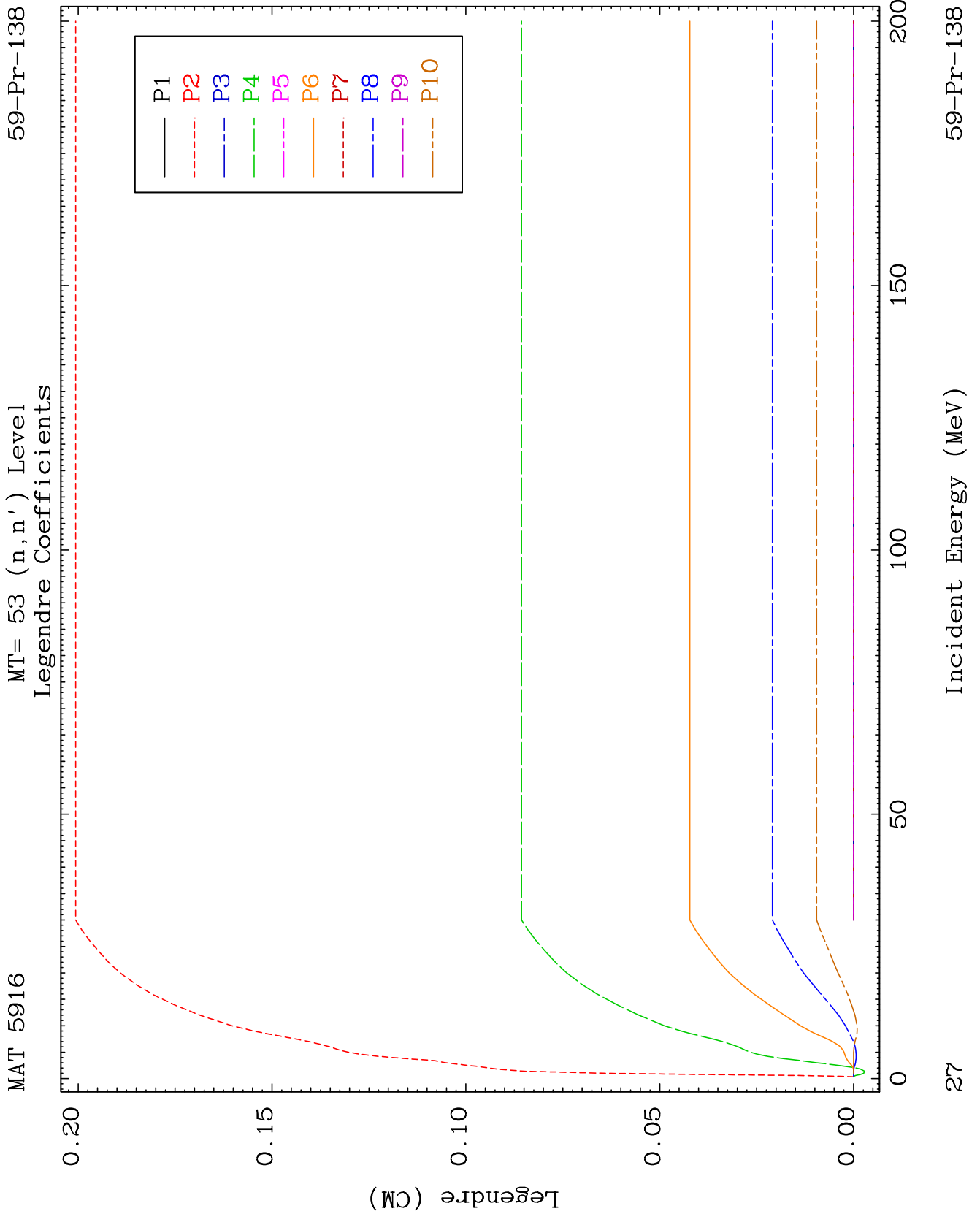


25

Incident Energy (MeV)

59-Pr-138

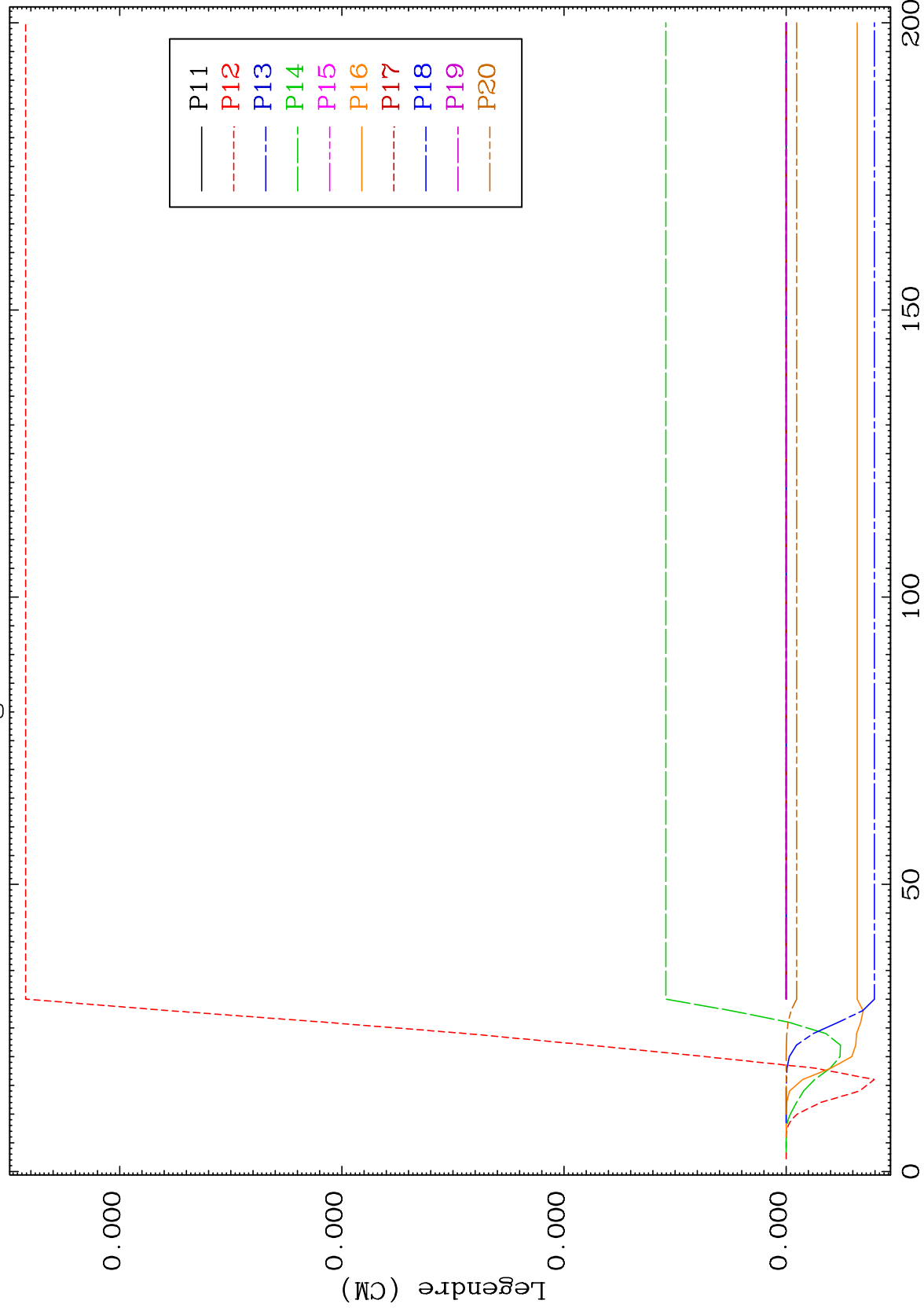




MAT 5916

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

59-Pr-138



28

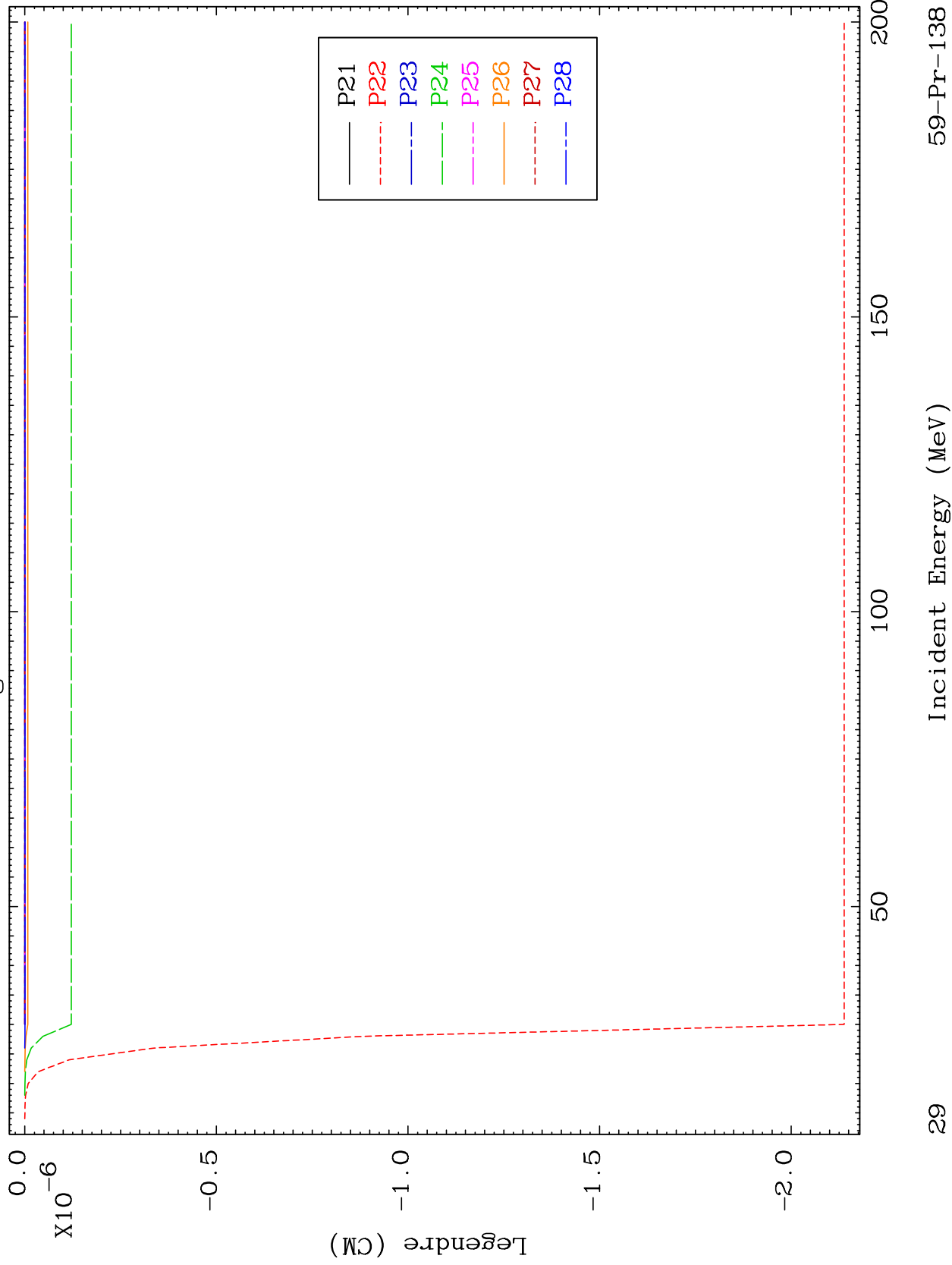
Incident Energy (MeV)

59-Pr-138

MAT 5916

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

59-Pr-138



29

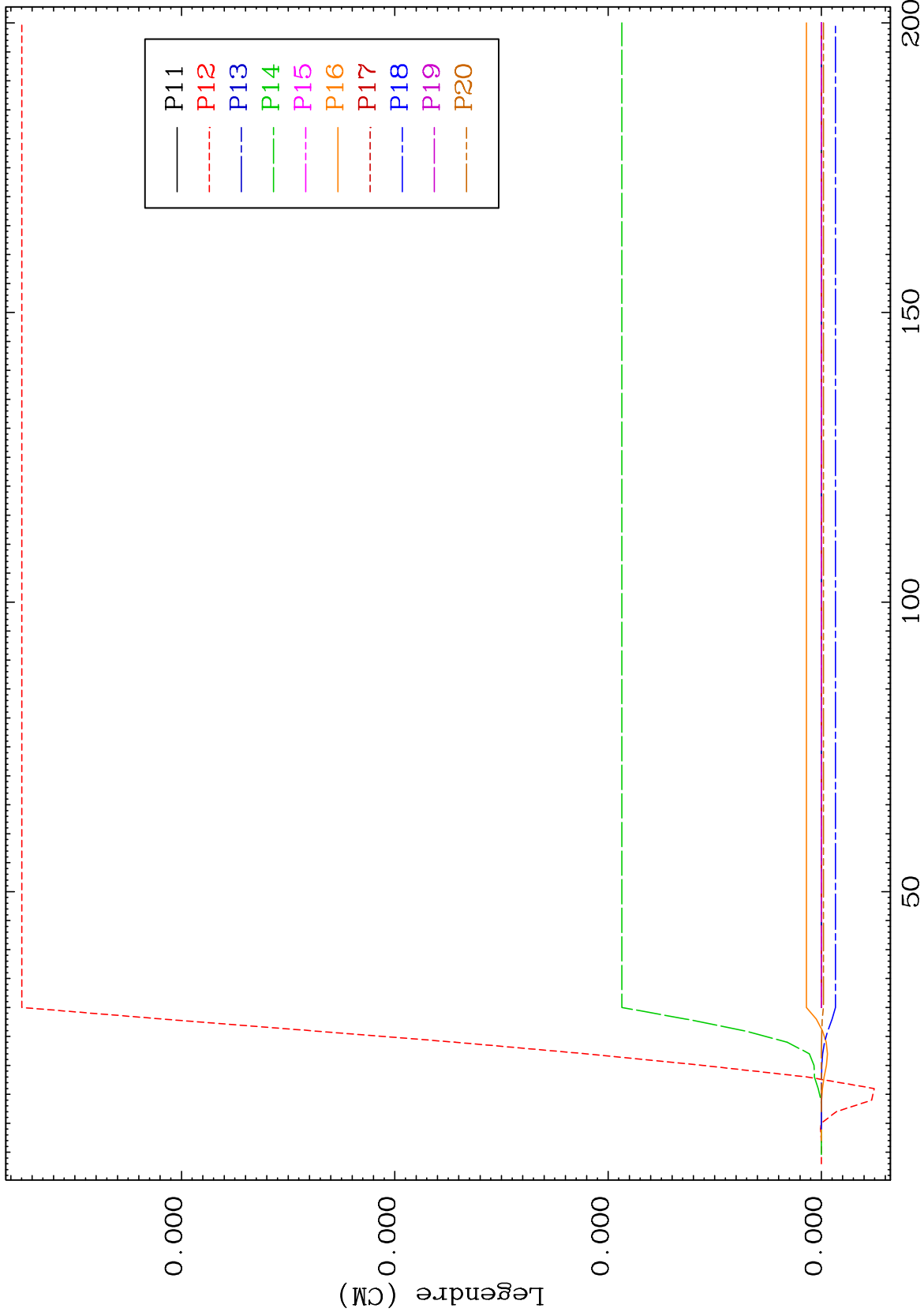
Incident Energy (MeV)

59-Pr-138

MAT 5916

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

59-Pr-138



31

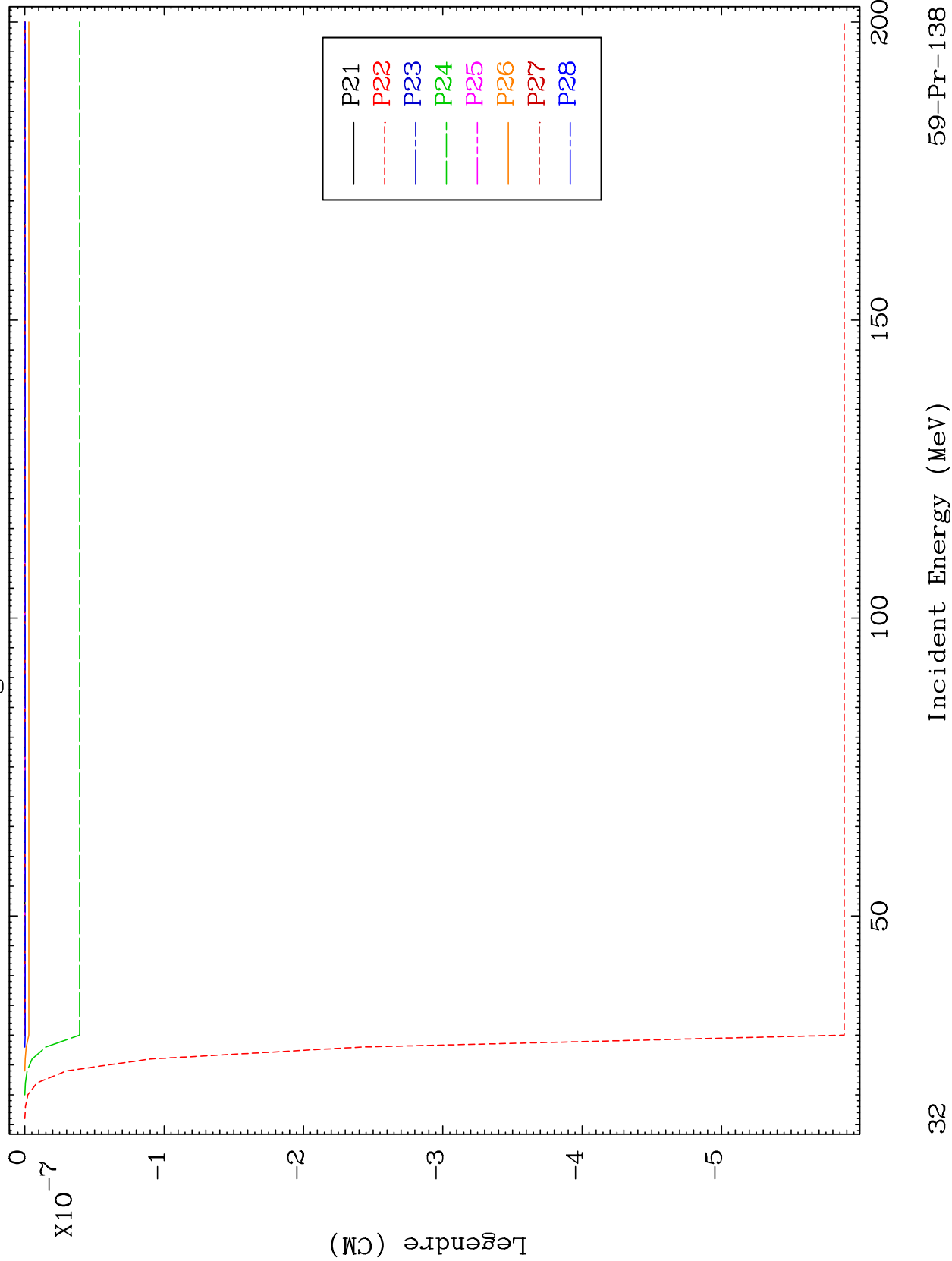
Incident Energy (MeV)

59-Pr-138

MAT 5916

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

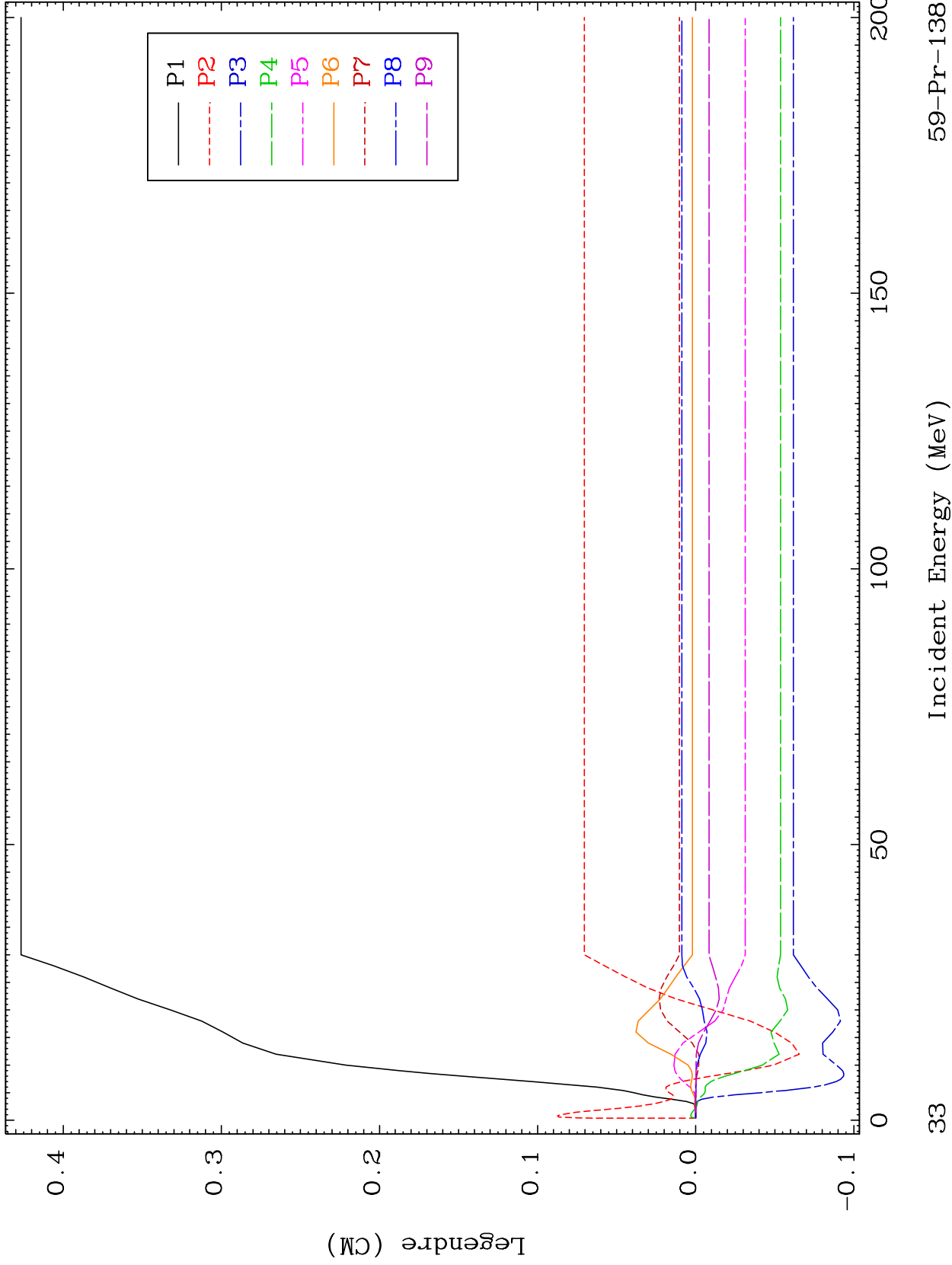
59-Pr-138



32

Incident Energy (MeV)

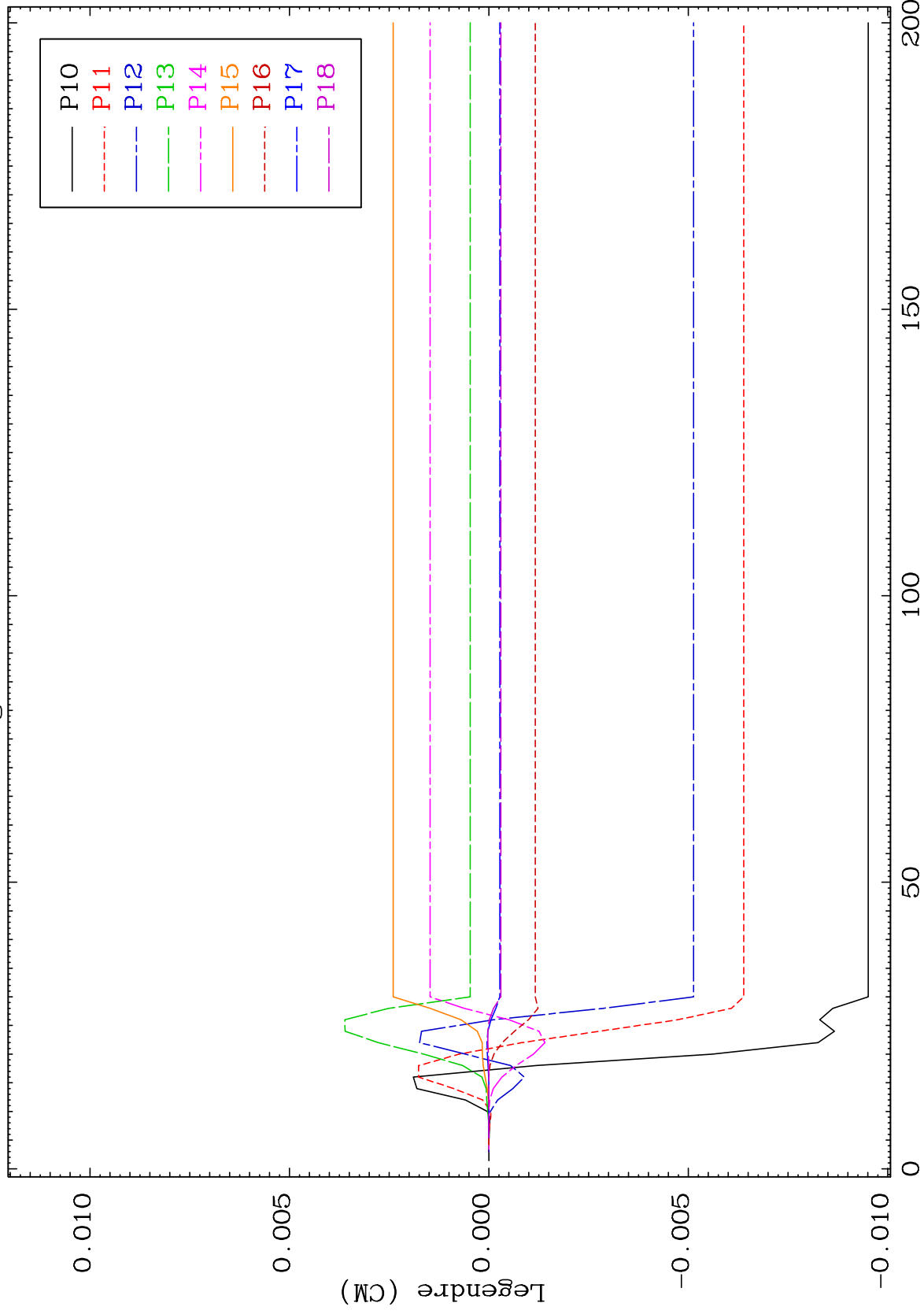
59-Pr-138



MAT 5916

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

59-Pr-138



34

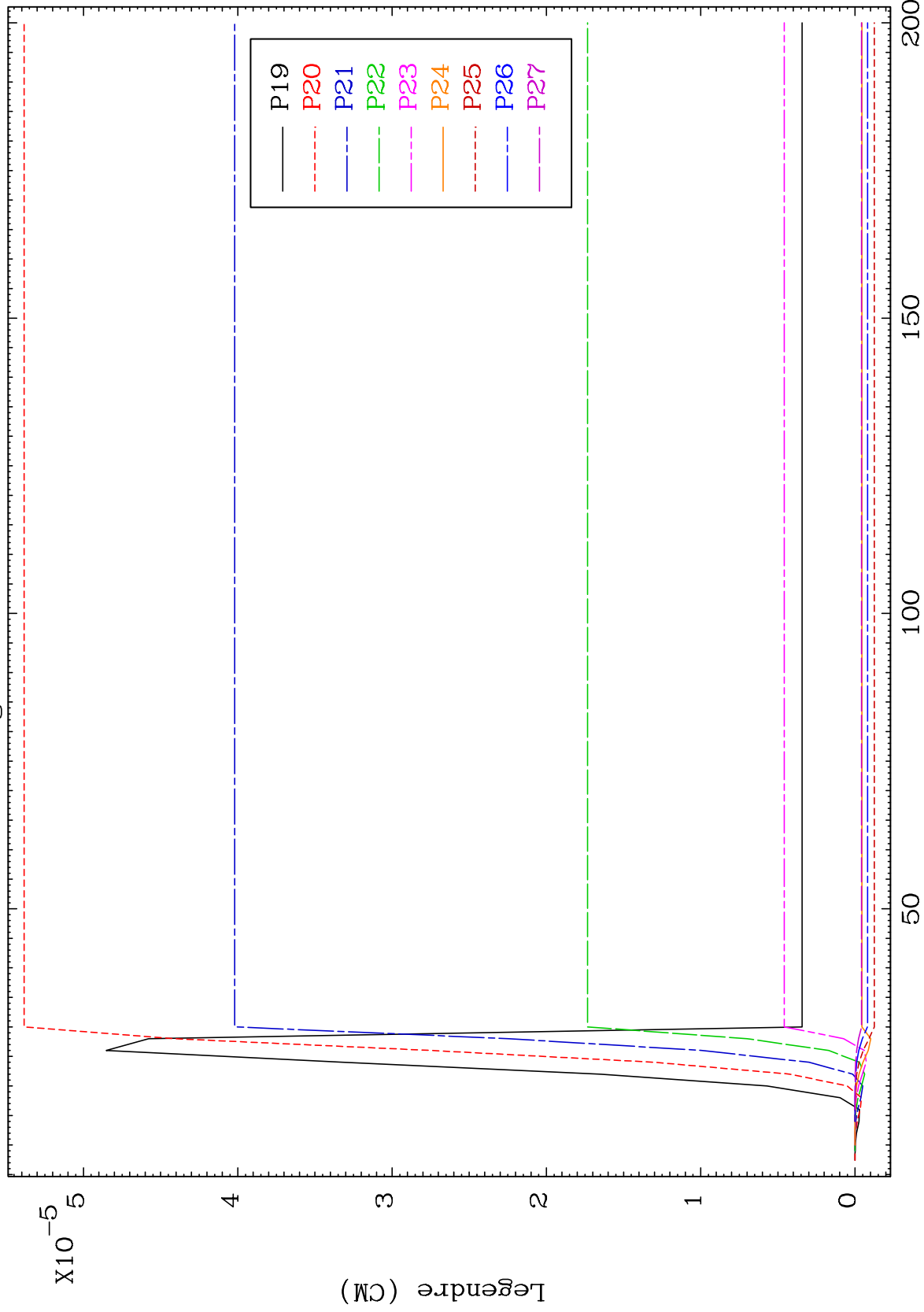
Incident Energy (MeV)

59-Pr-138

MAT 5916

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

59-Pr-138

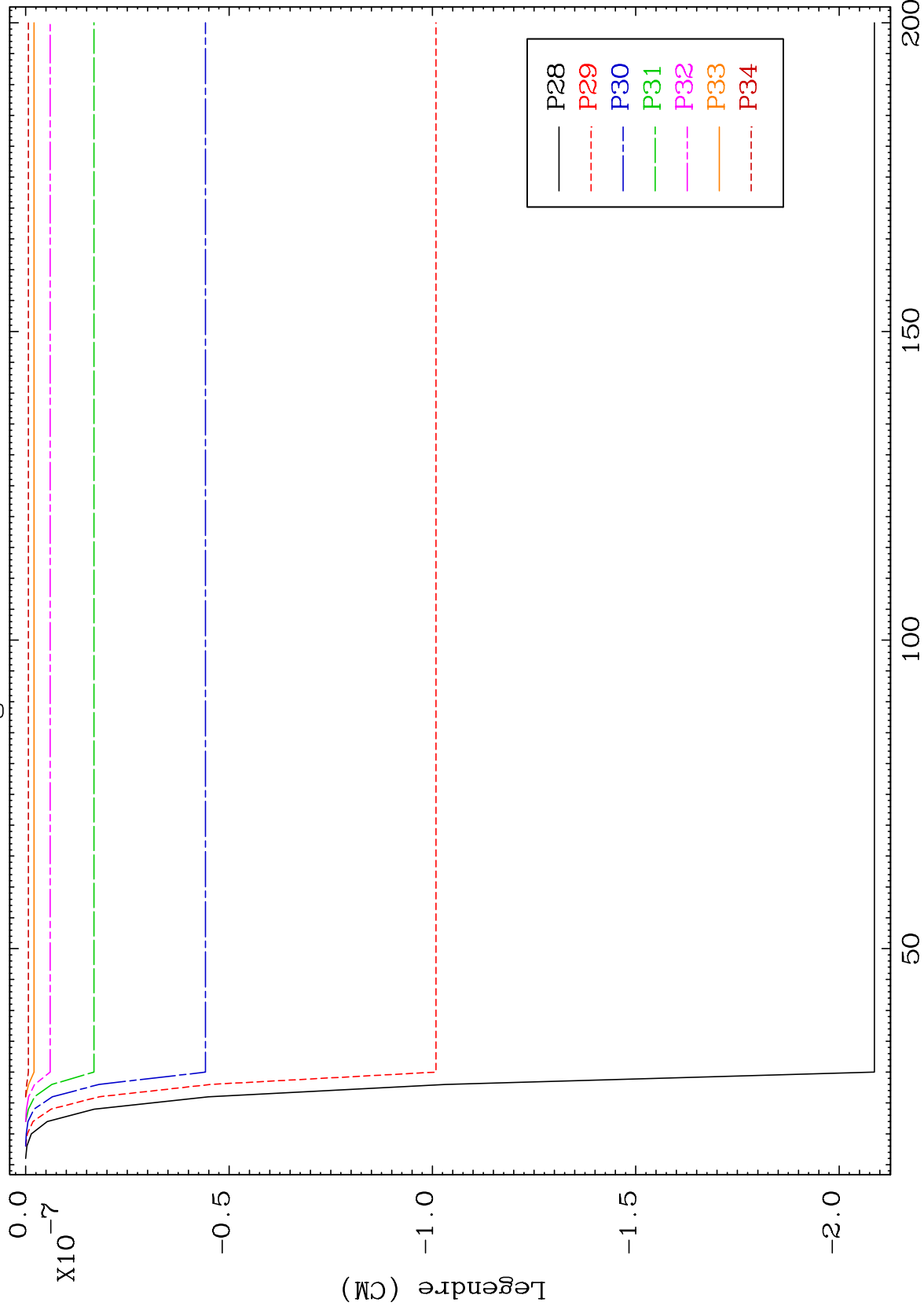


35

Incident Energy (MeV)

59-Pr-138

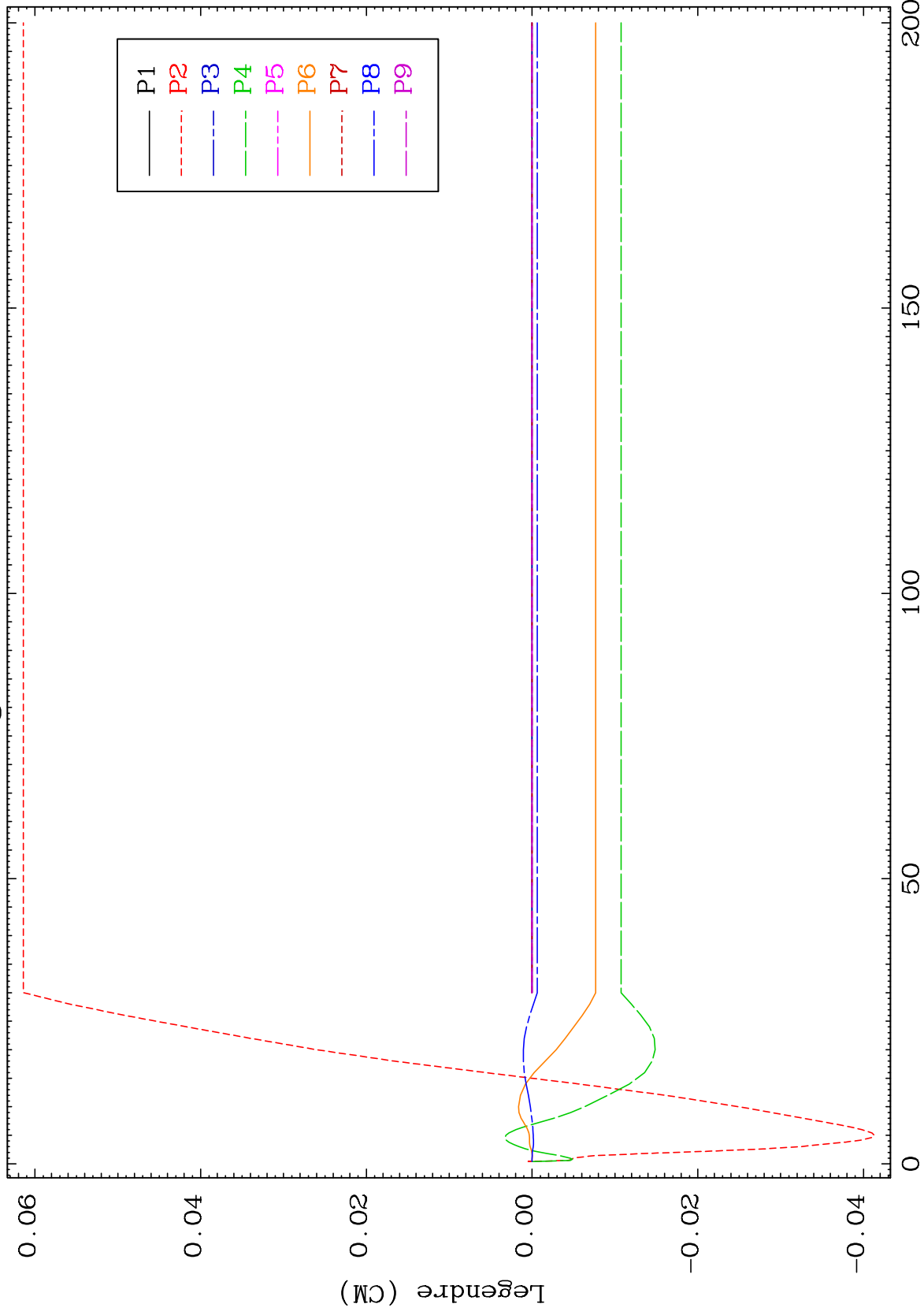
Legendre Coefficients



MAT 5916

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

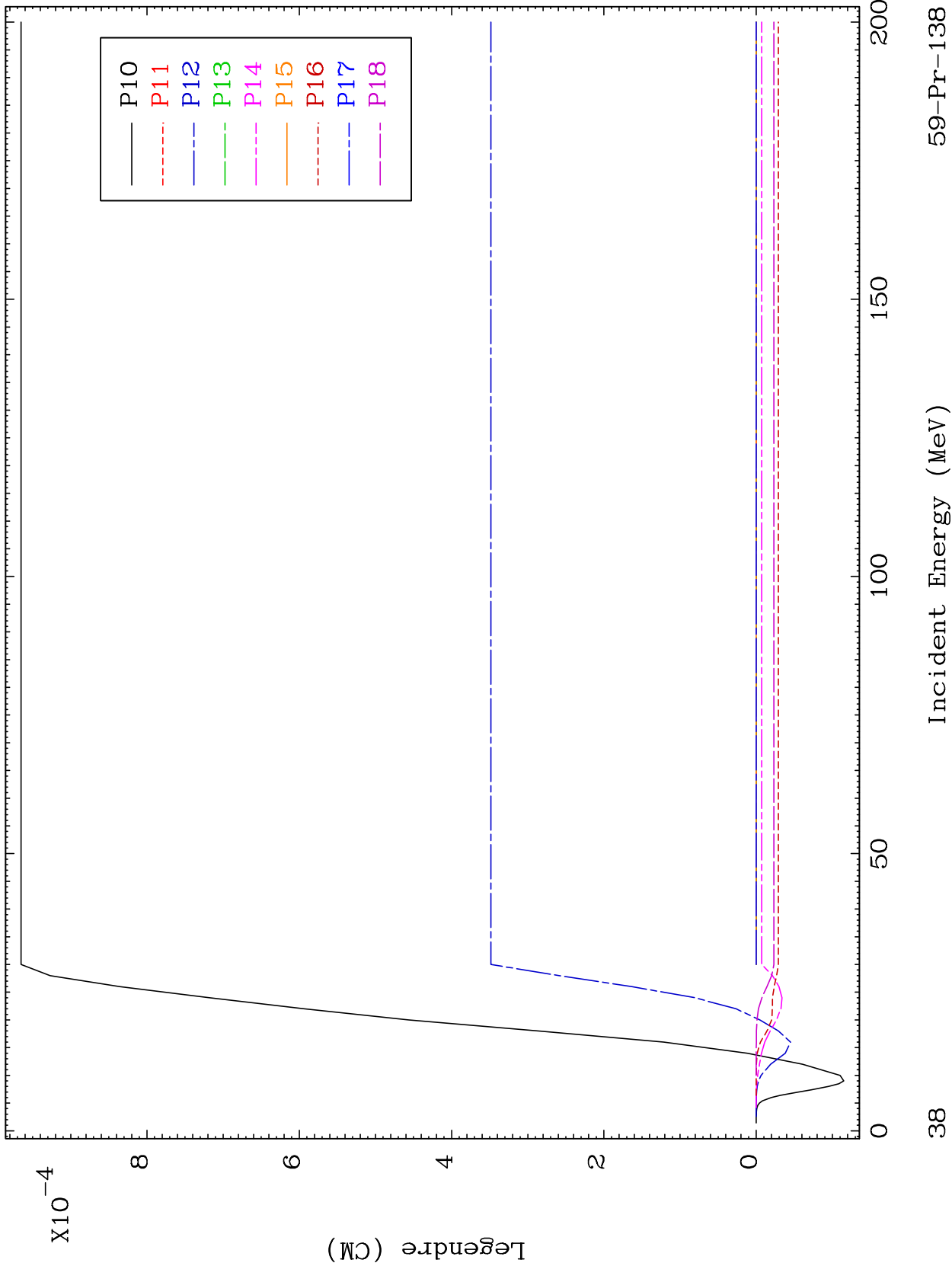
59-Pr-138



37

Incident Energy (MeV)

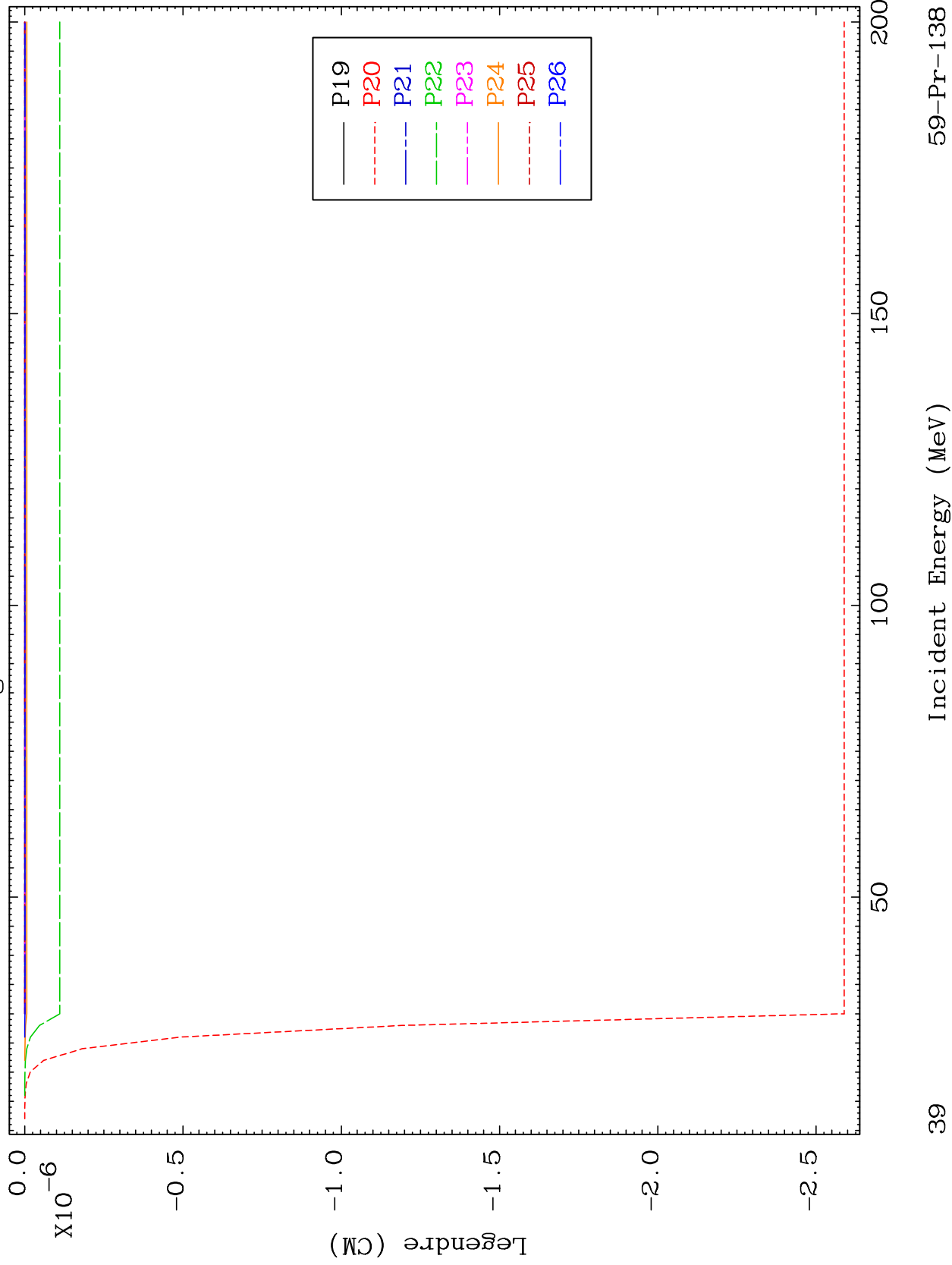
59-Pr-138

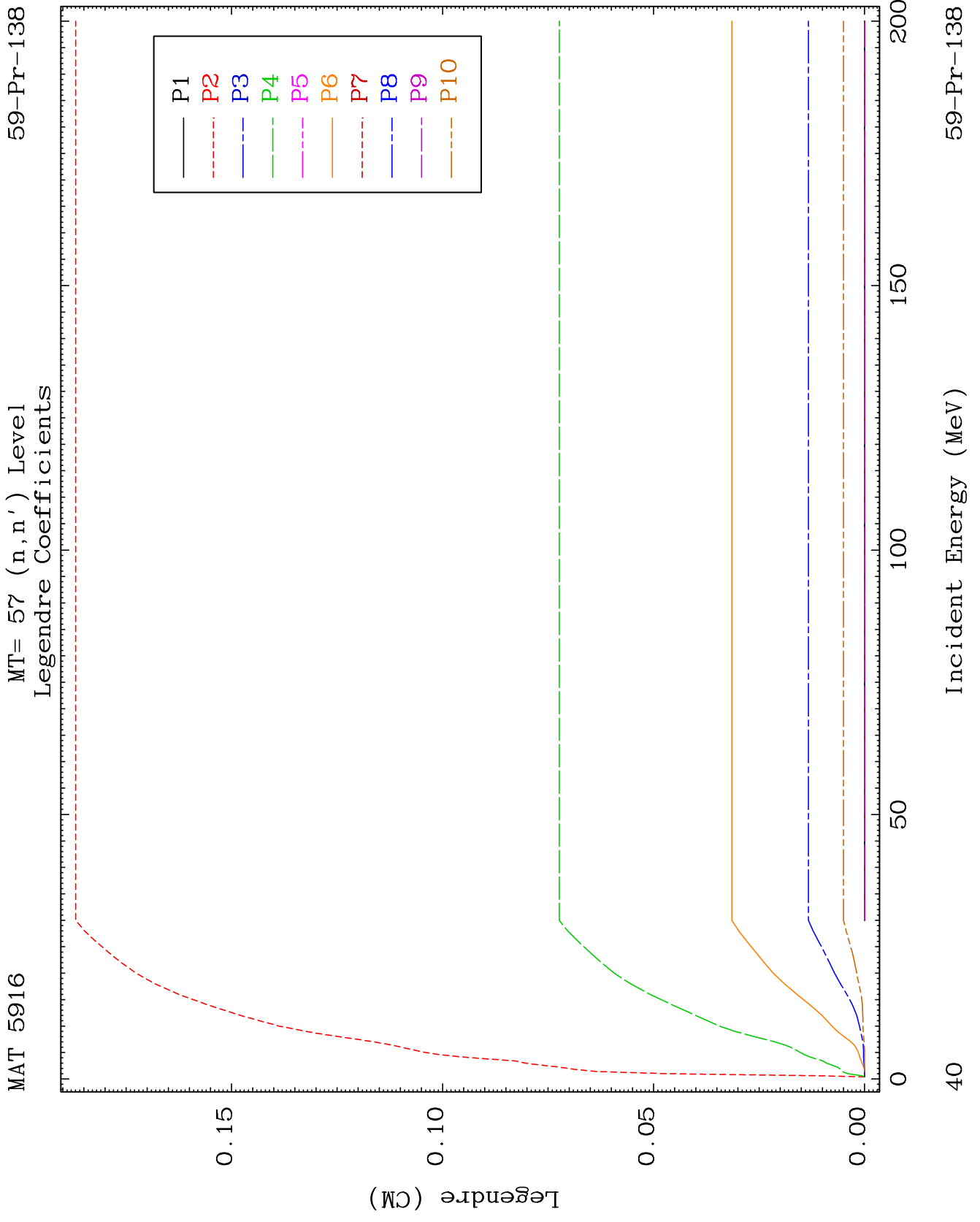


MAT 5916

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

59-Pr-138

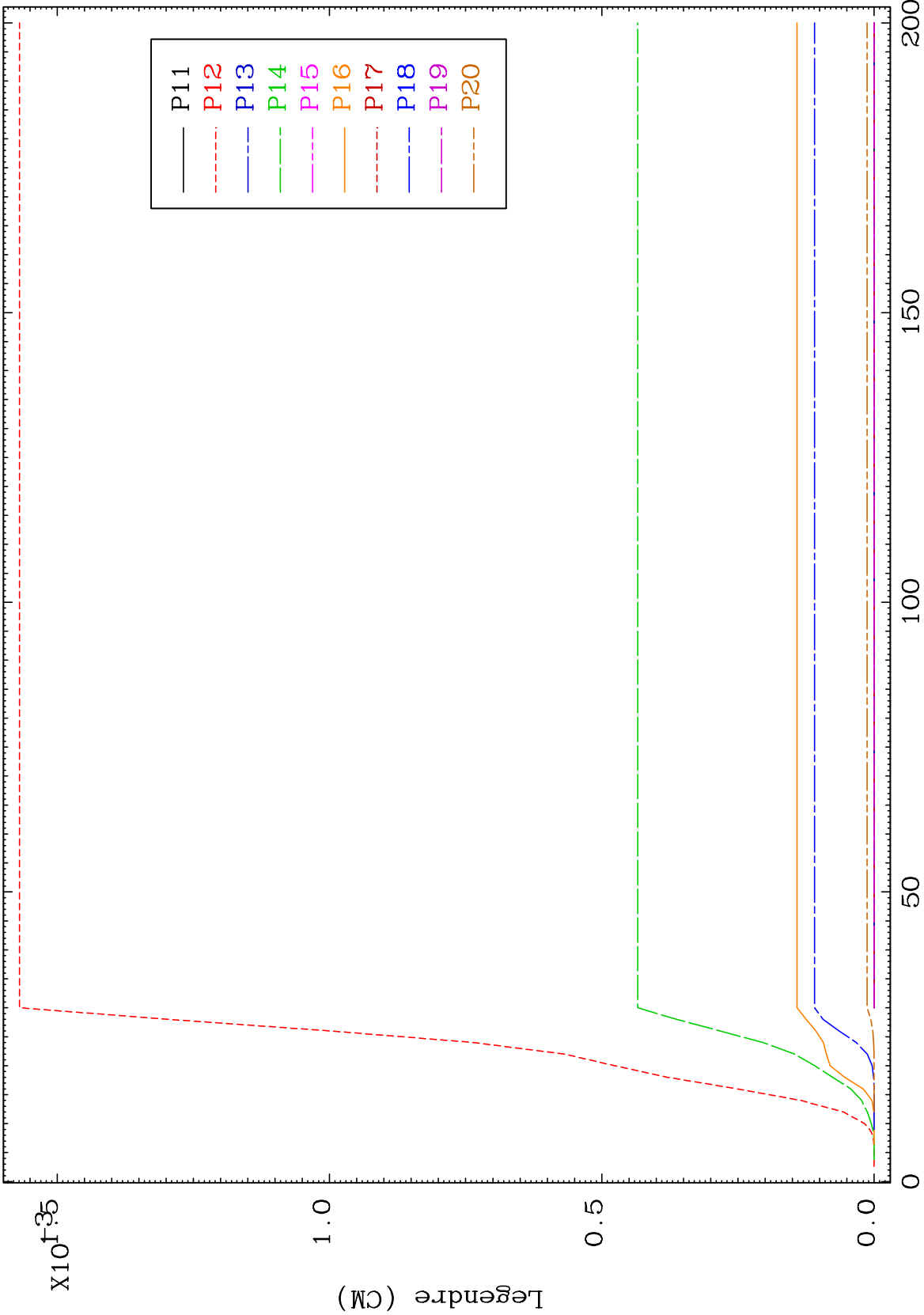




MAT 5916

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

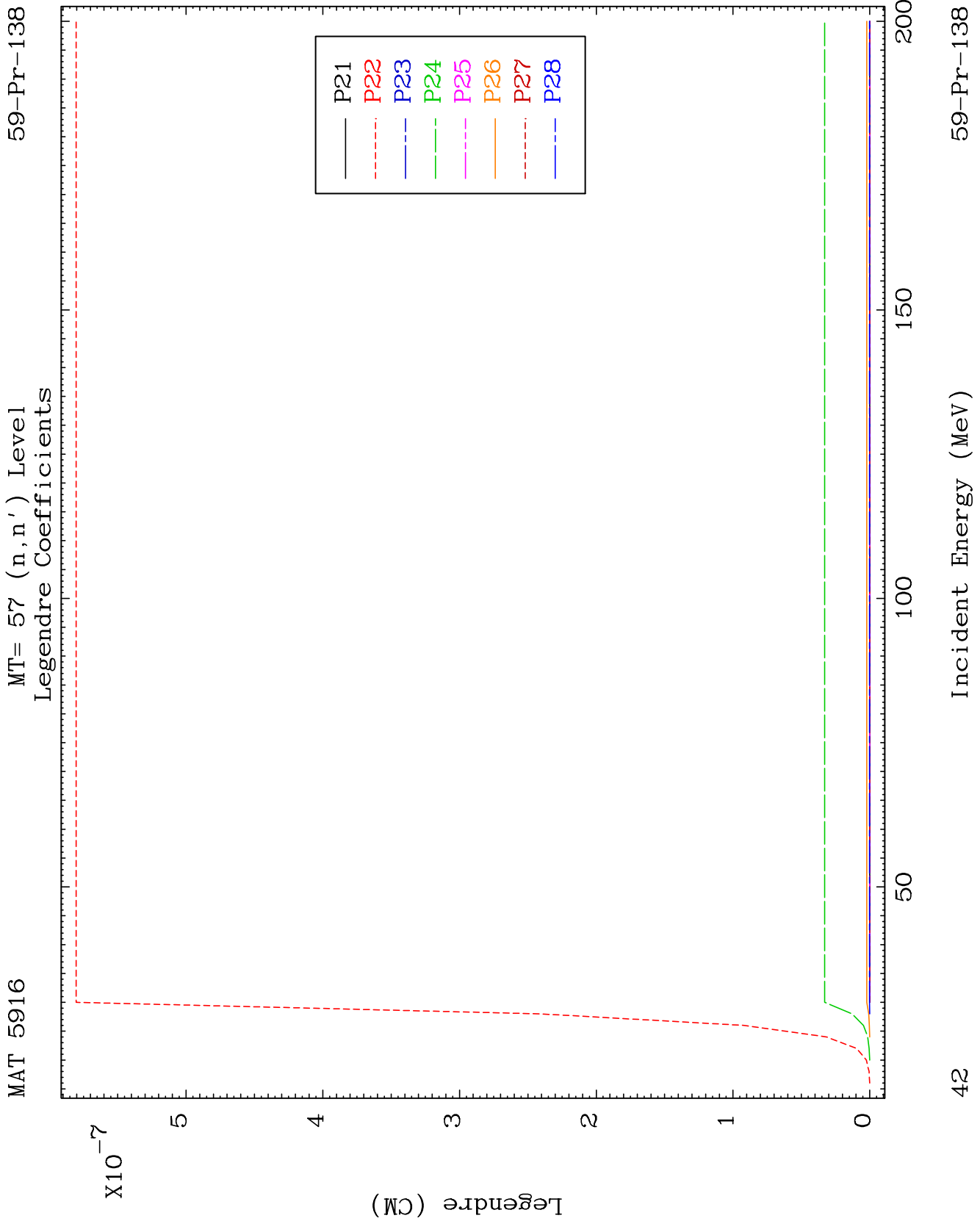
59-Pr-138



41

Incident Energy (MeV)

59-Pr-138

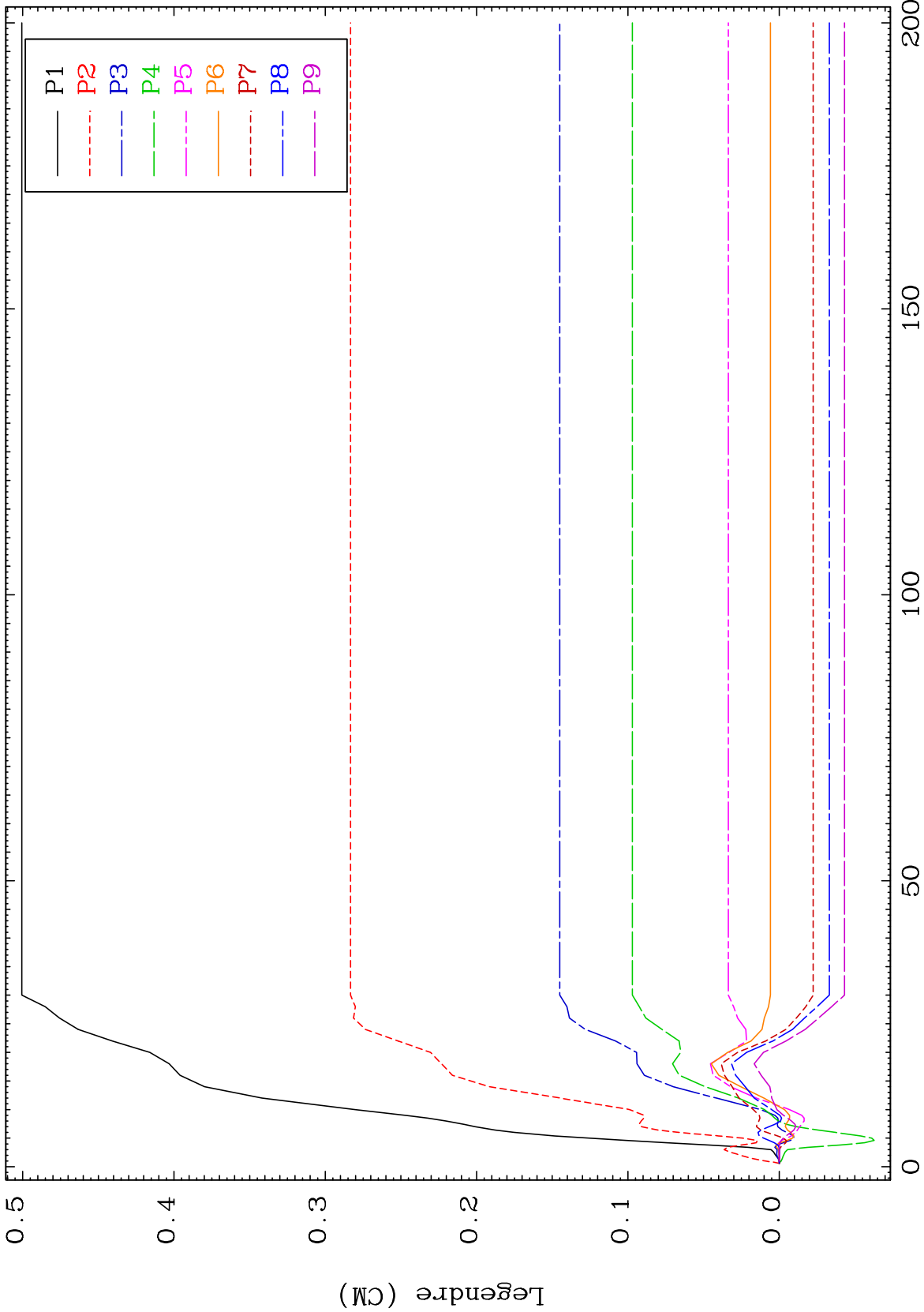


MAT 5916

MT= 58 (n,n') Level

59-Pr-138

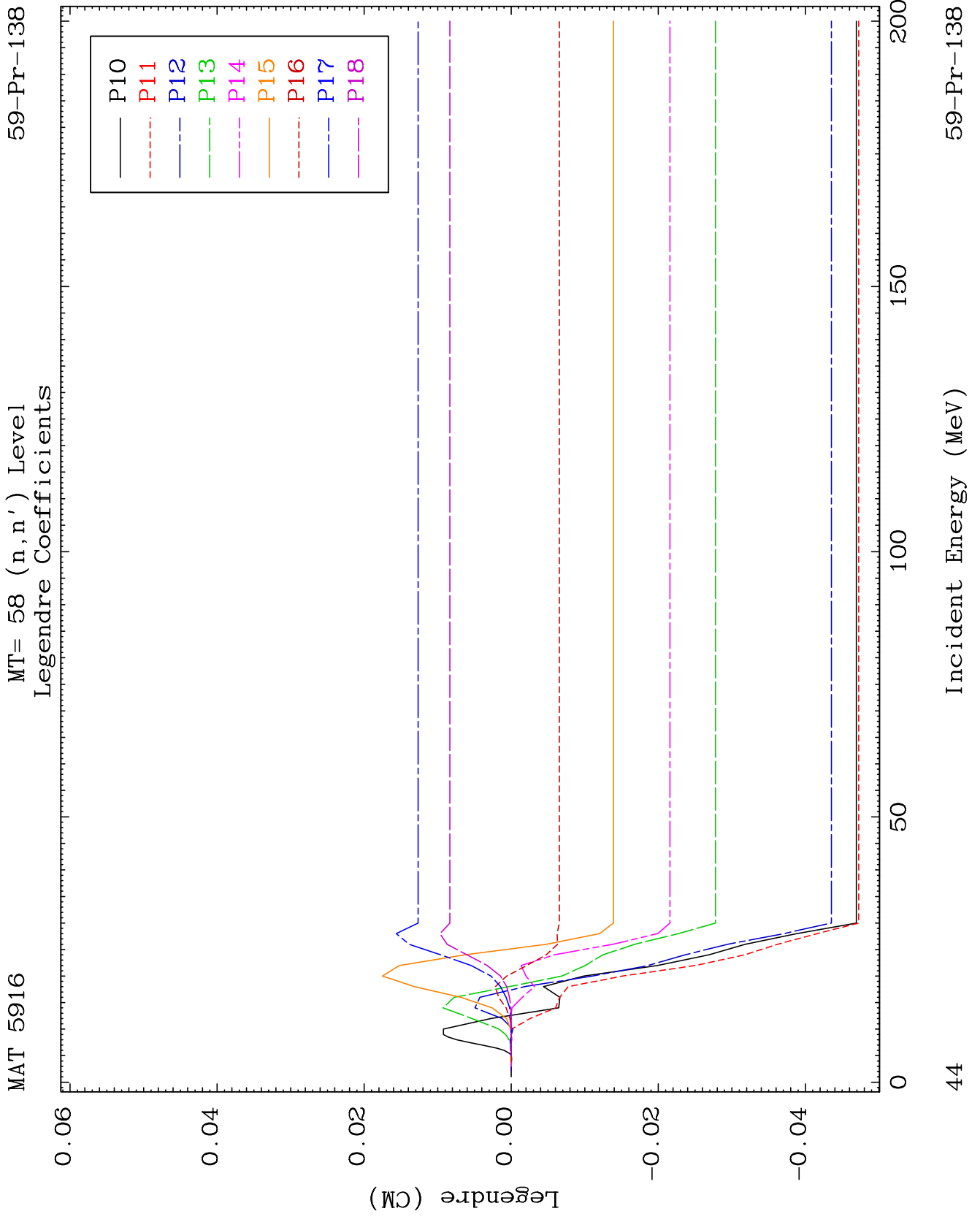
Legendre Coefficients



43

Incident Energy (MeV)

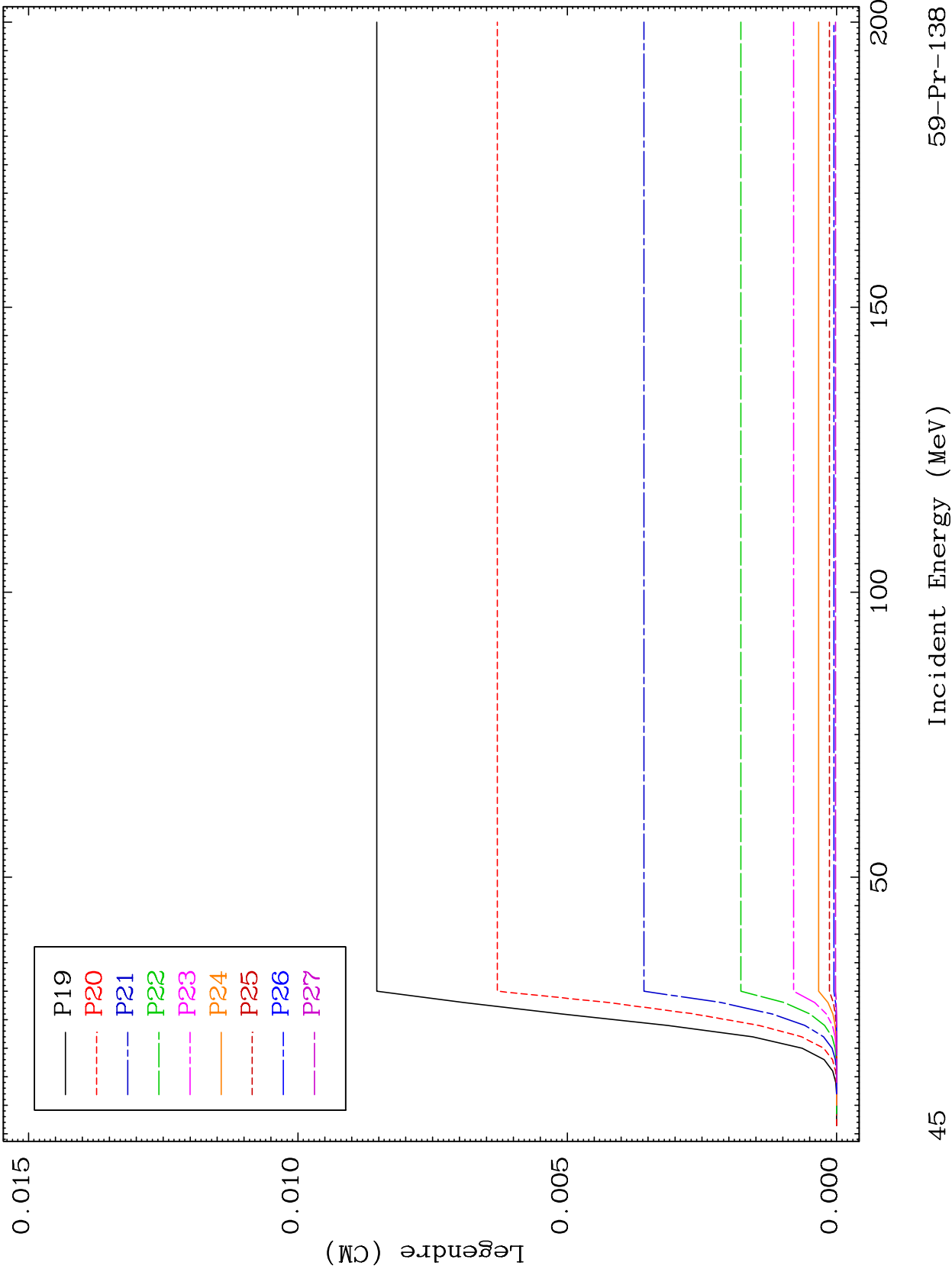
59-Pr-138



MAT 5916

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

59-Pr-138



45

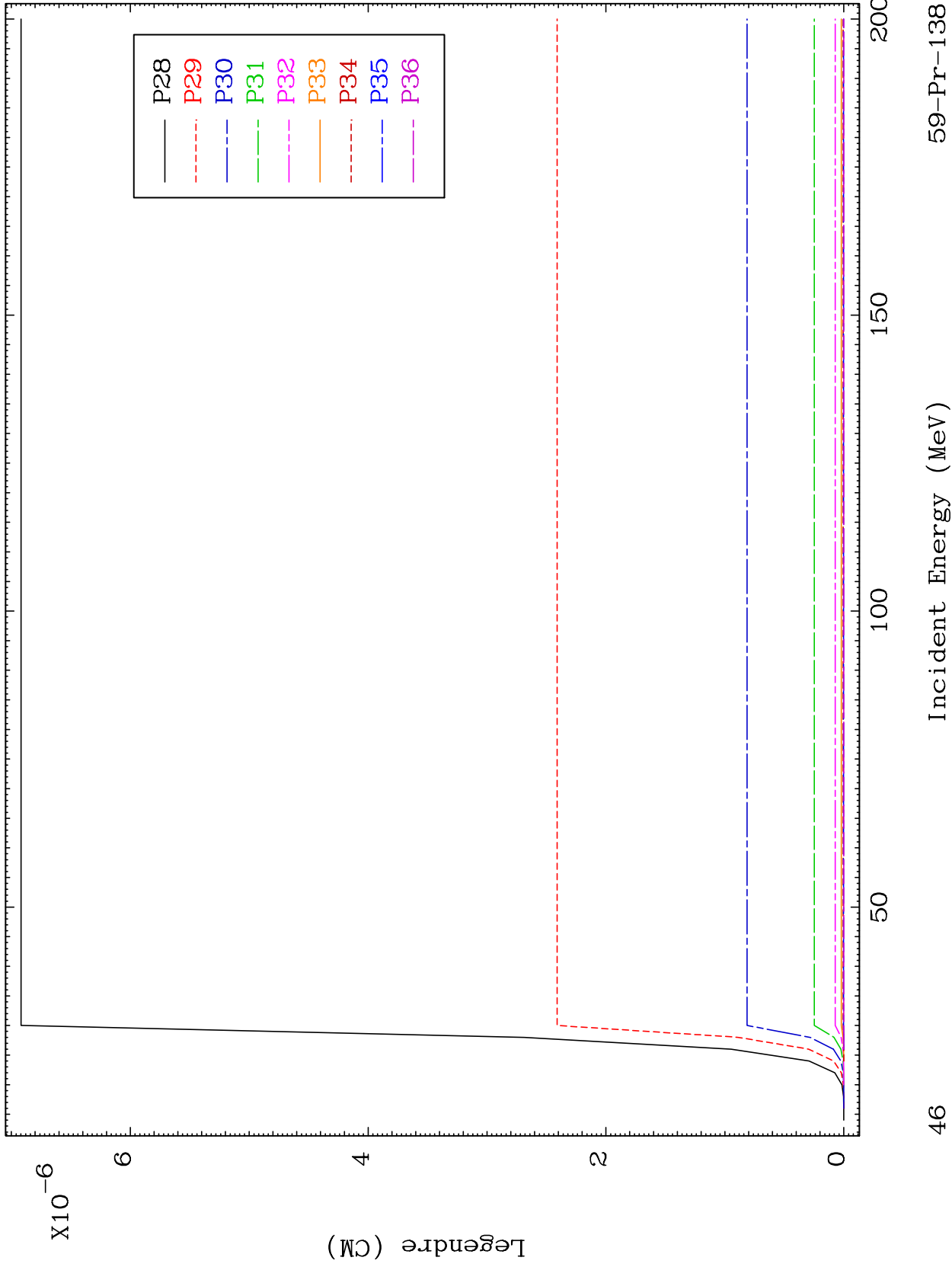
Incident Energy (MeV)

59-Pr-138

MAT 5916

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

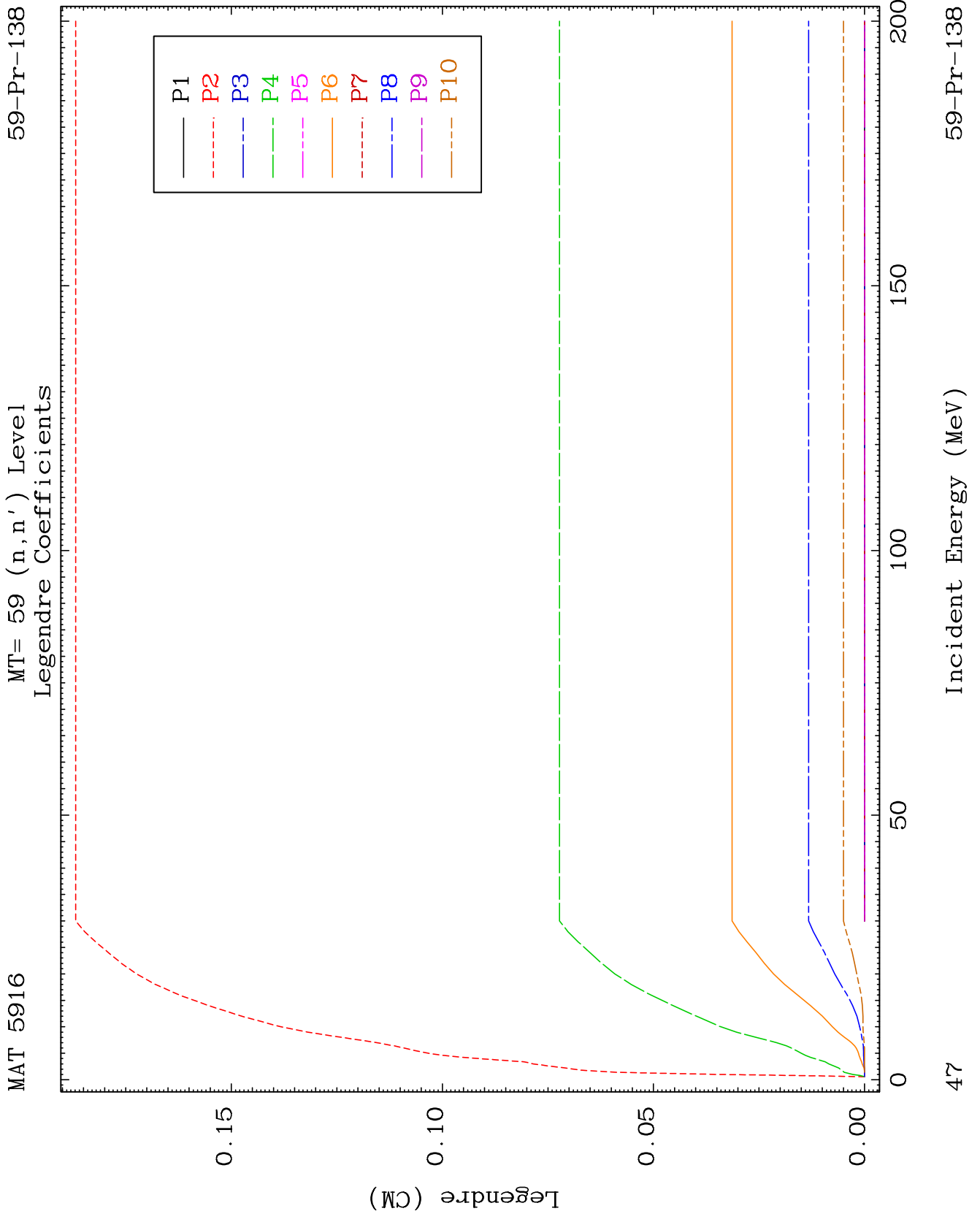
59-Pr-138



46

Incident Energy (MeV)

59-Pr-138

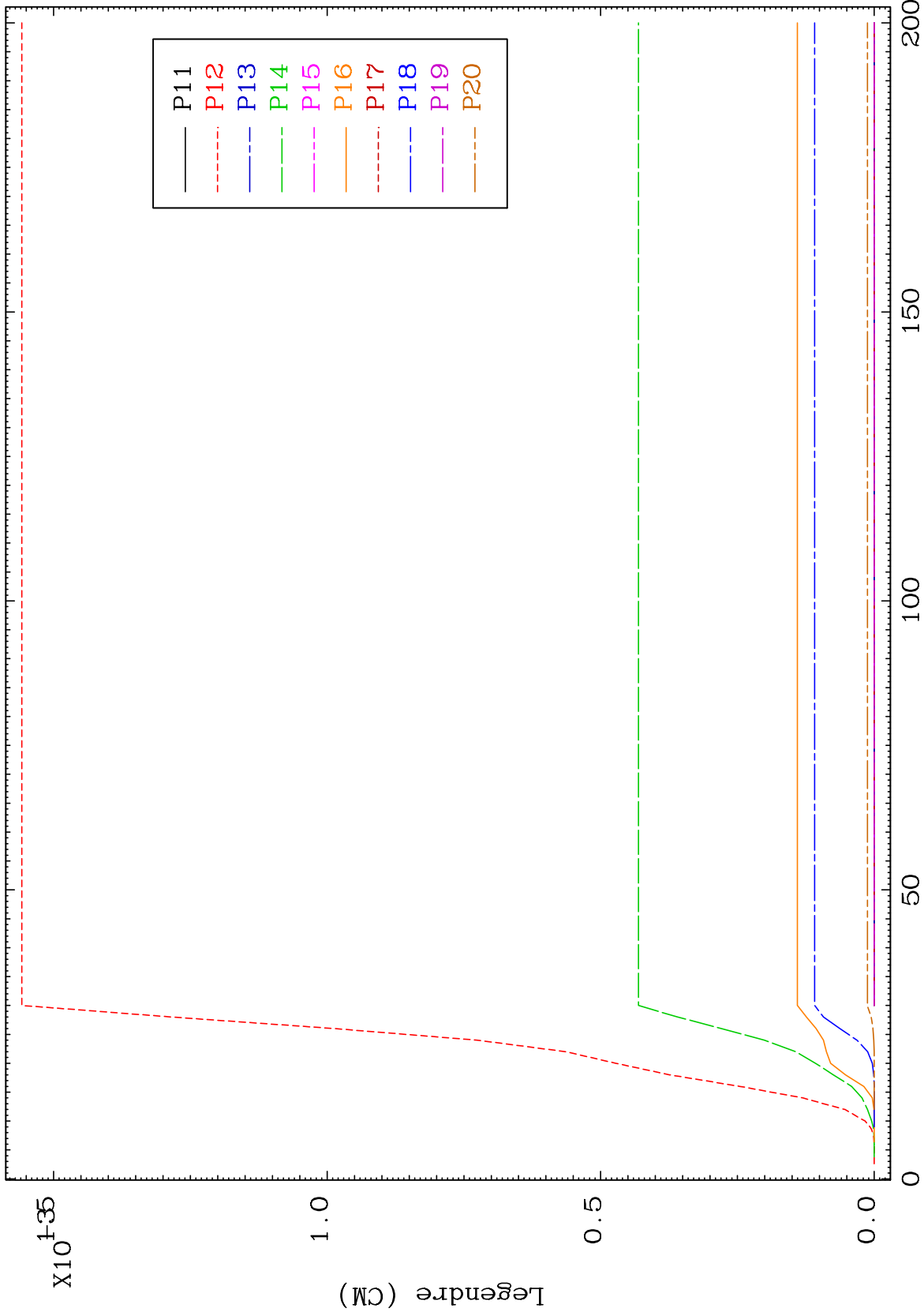


MAT 5916

MT= 59 (n,n') Level

59-Pr-138

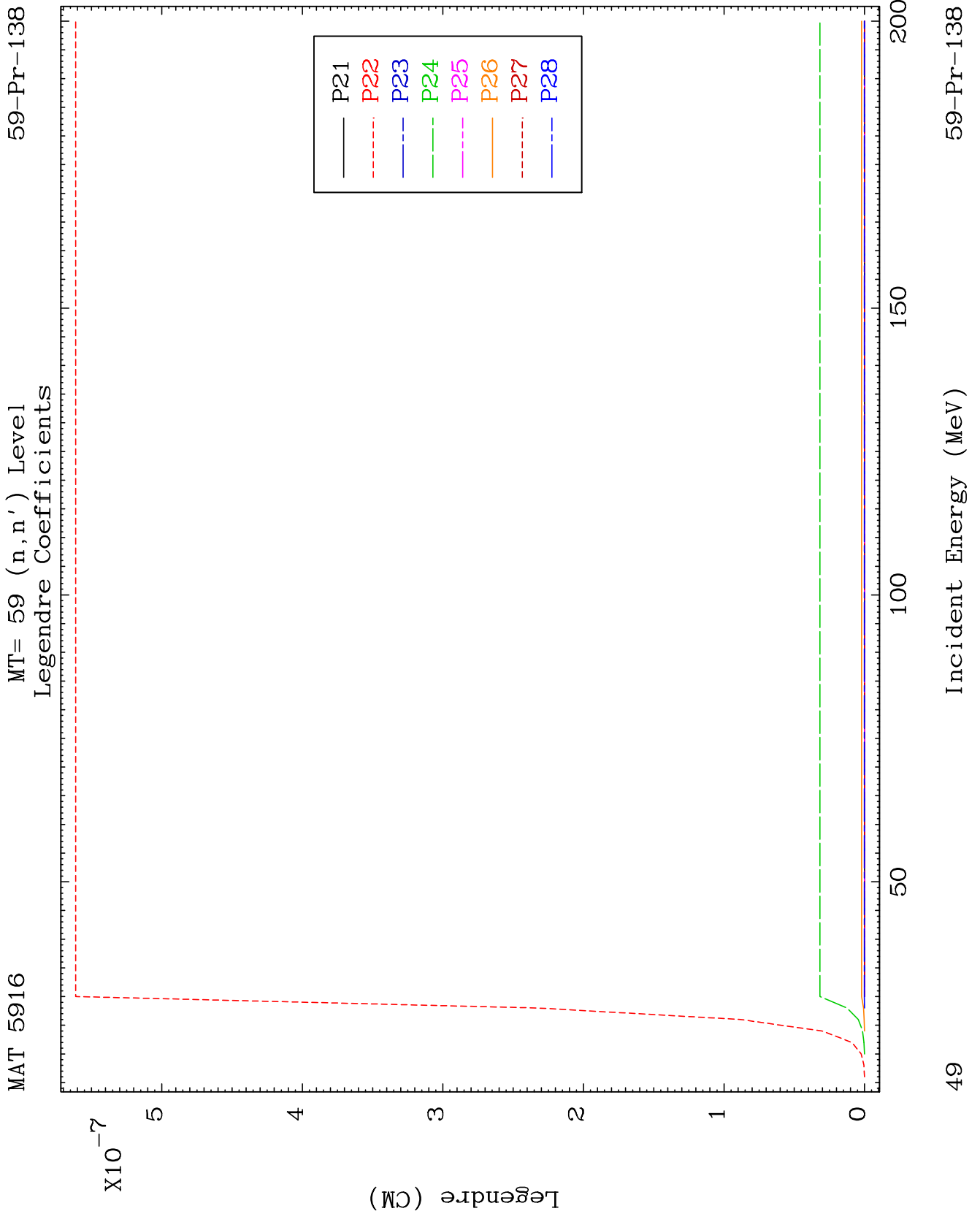
Legendre Coefficients



48

Incident Energy (MeV)

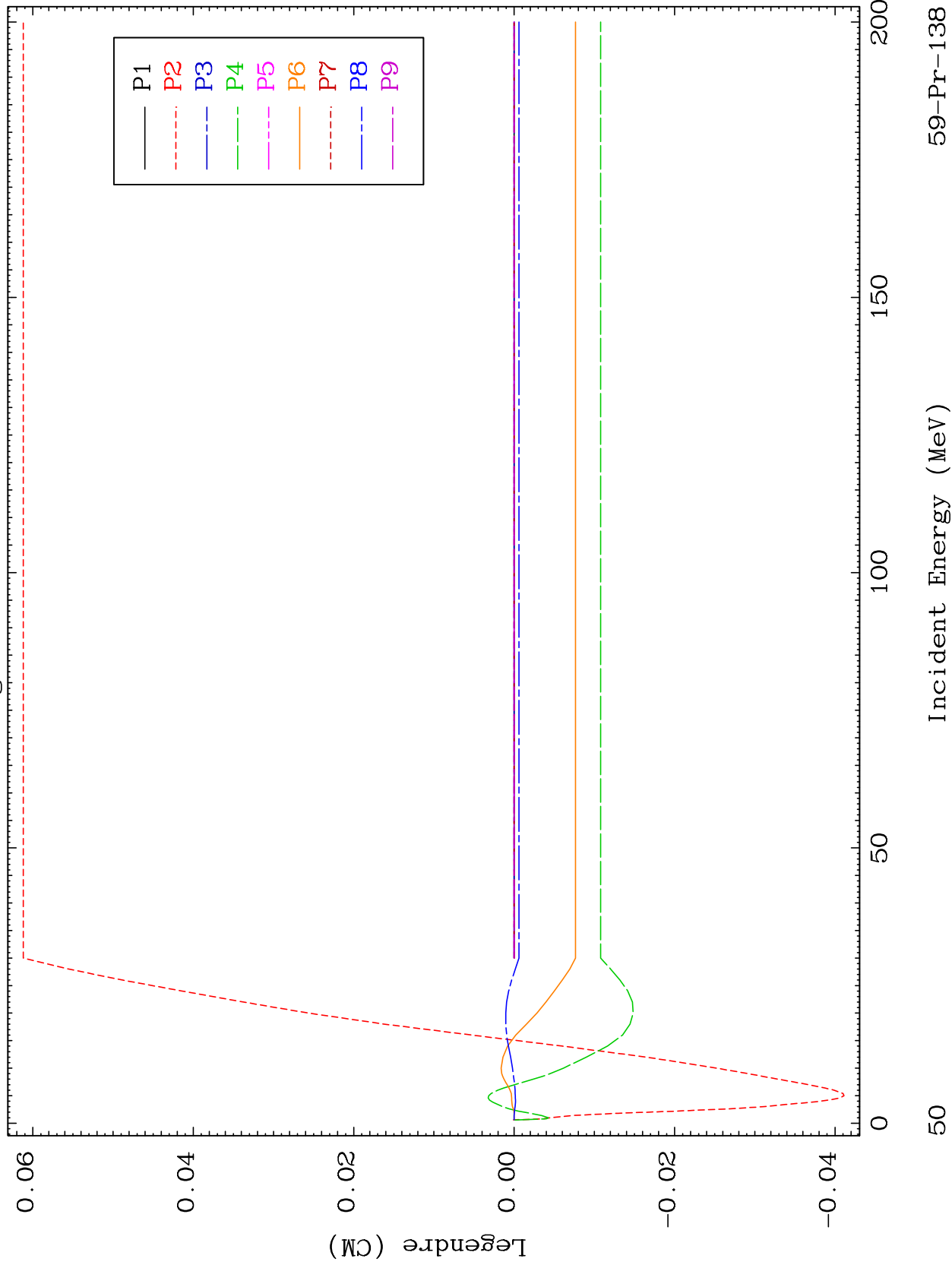
59-Pr-138



MAT 5916

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

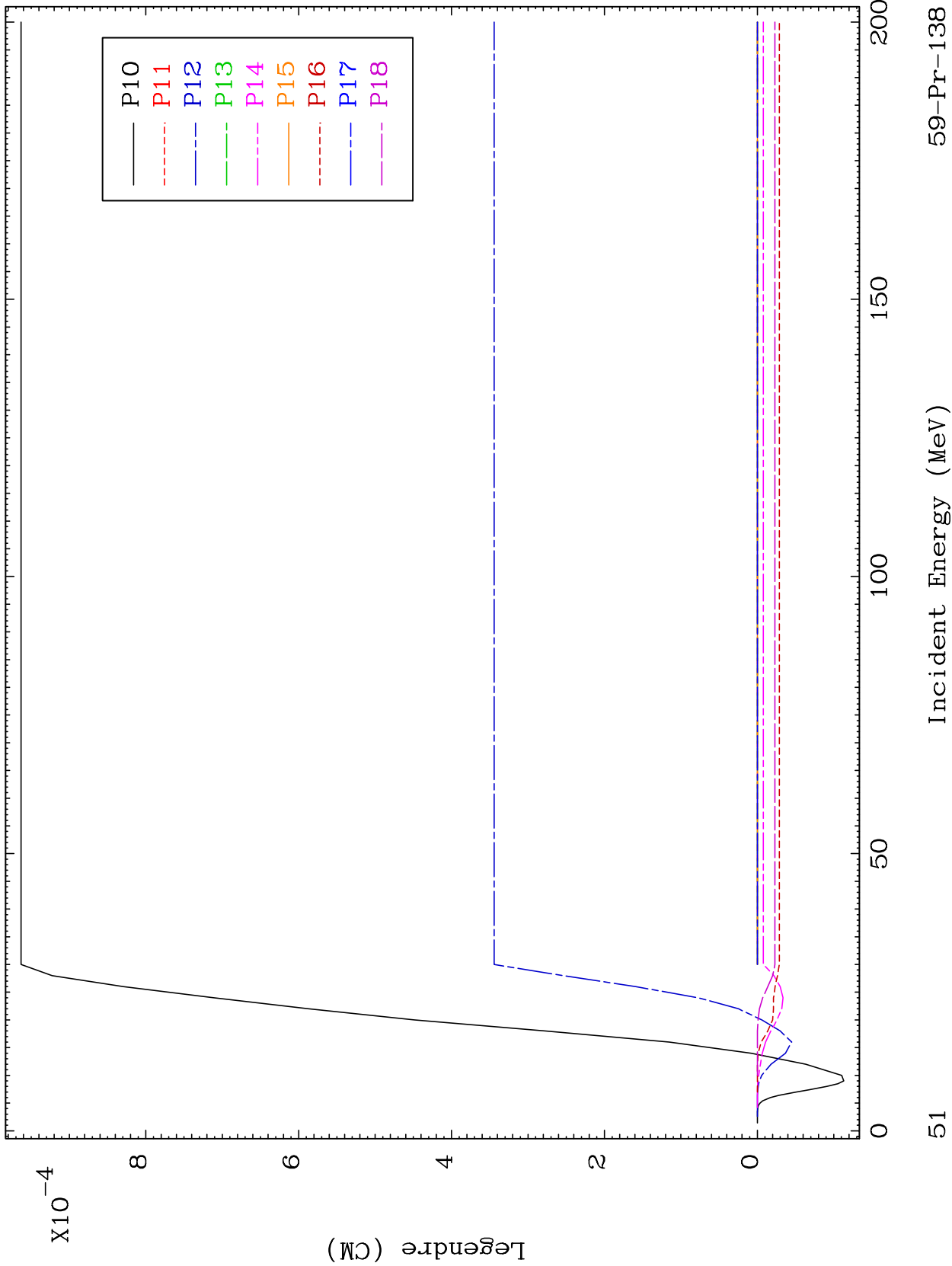
59-Pr-138

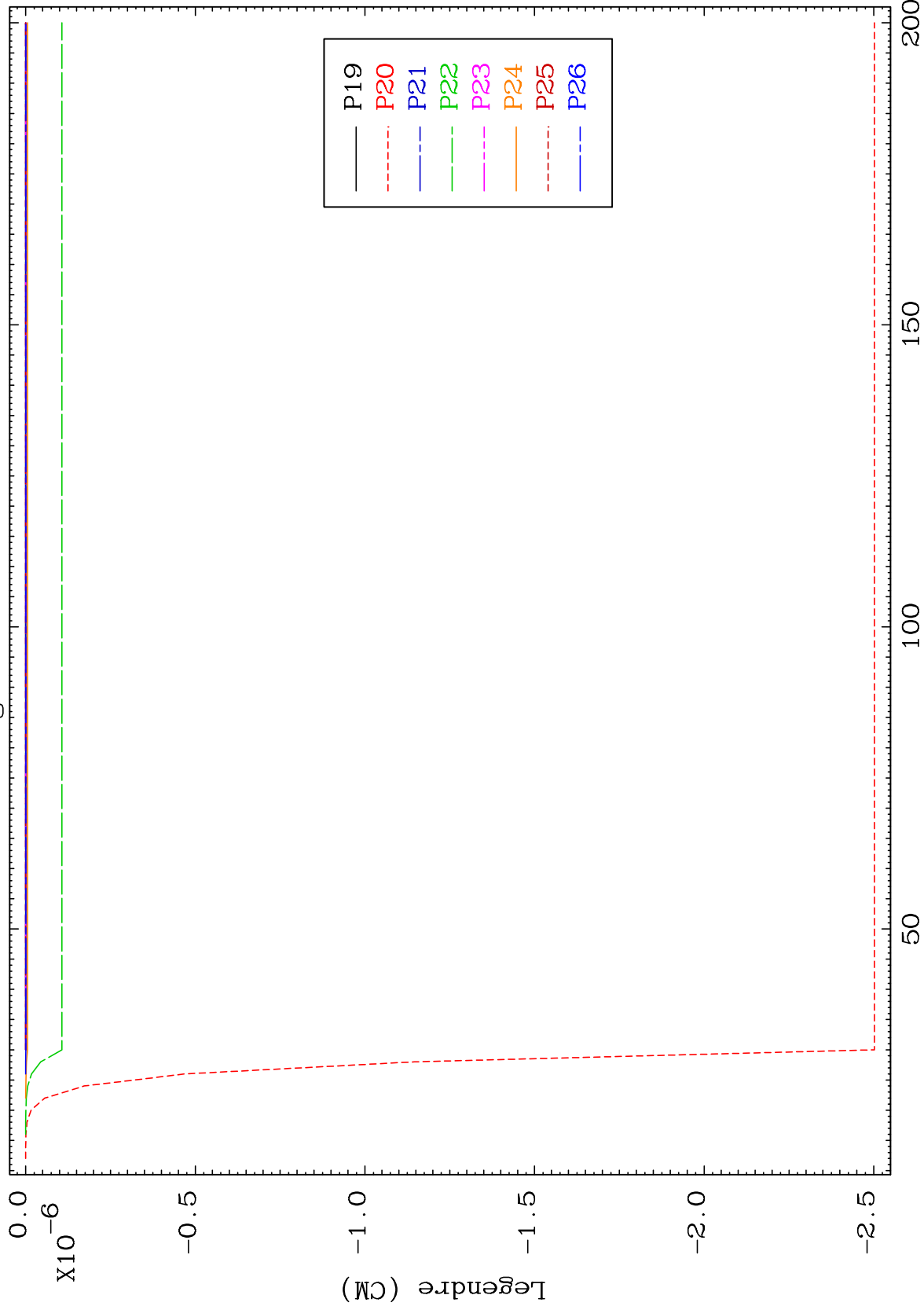


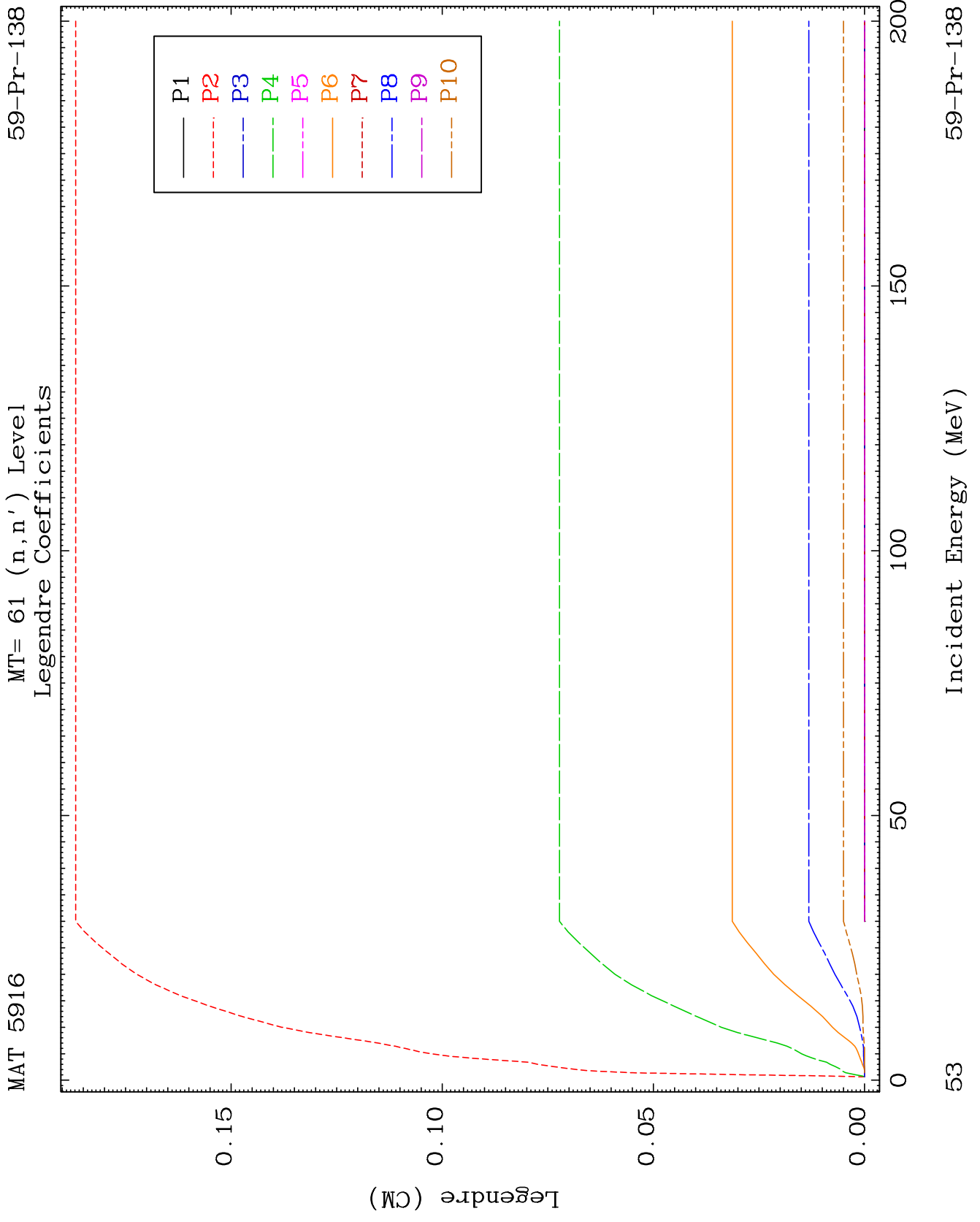
59-Pr-138

Incident Energy (MeV)

50



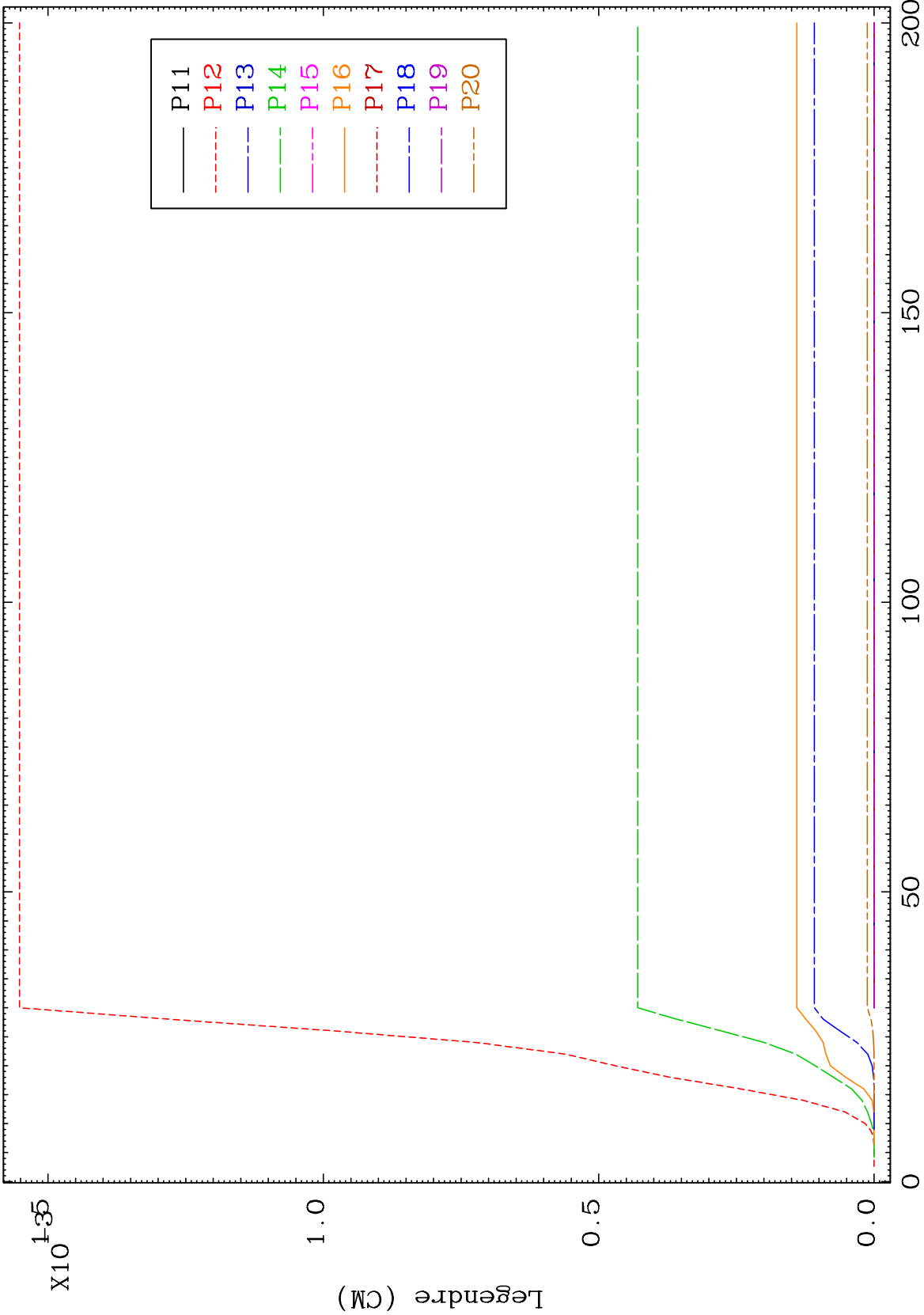




MAT 5916

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

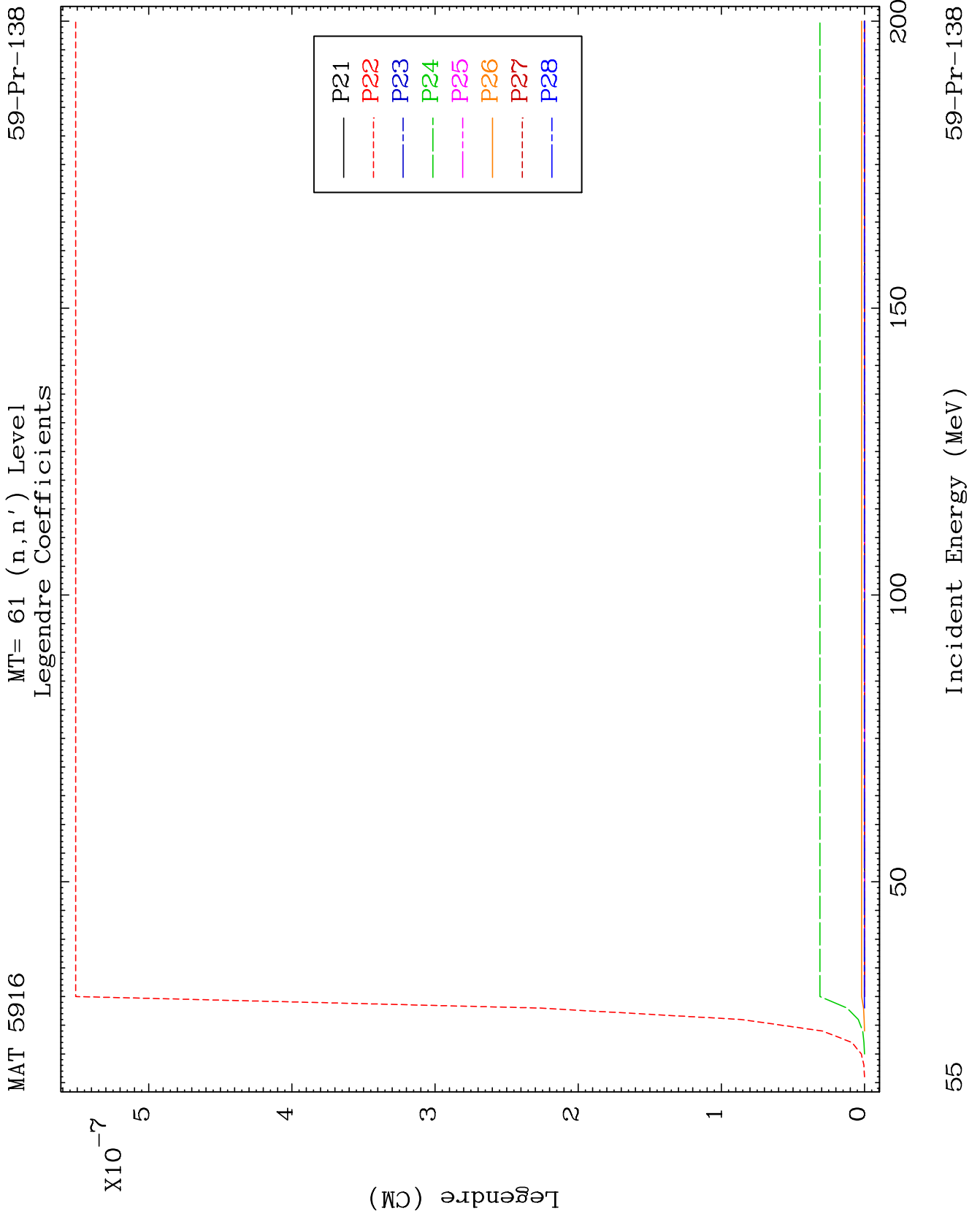
59-Pr-138



54

Incident Energy (MeV)

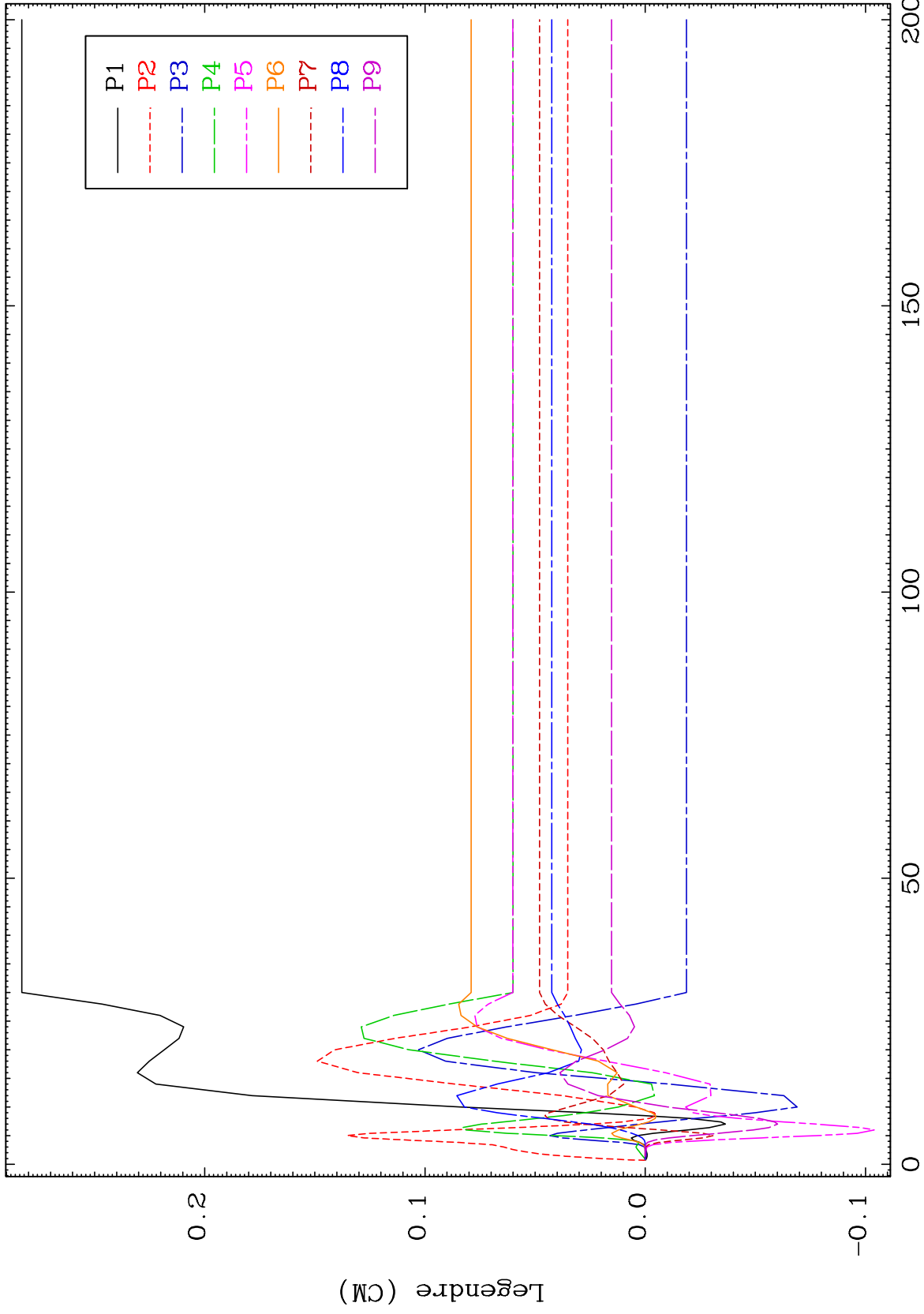
59-Pr-138



MAT 5916

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

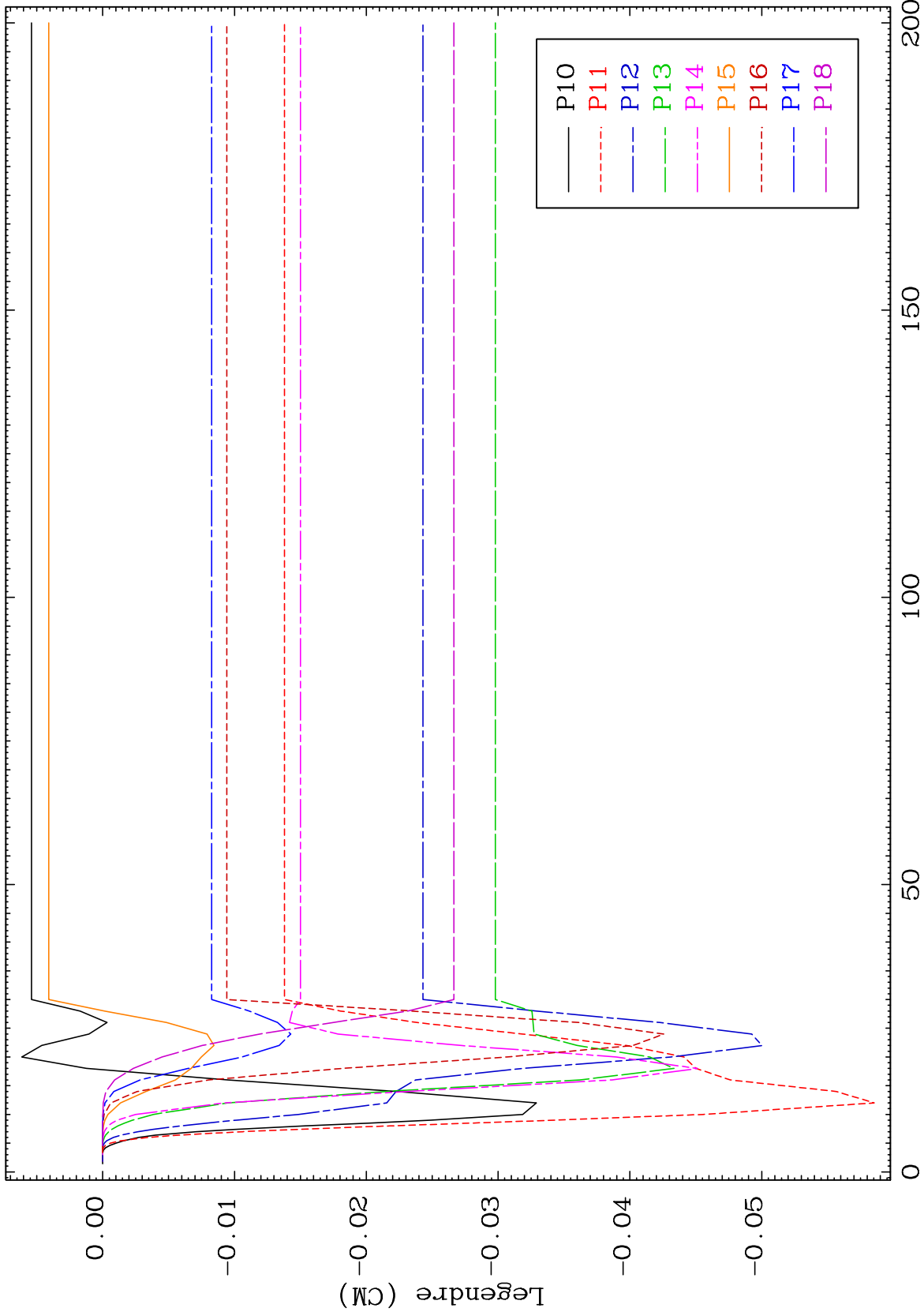
59-Pr-138



59-Pr-138

Incident Energy (MeV)

56

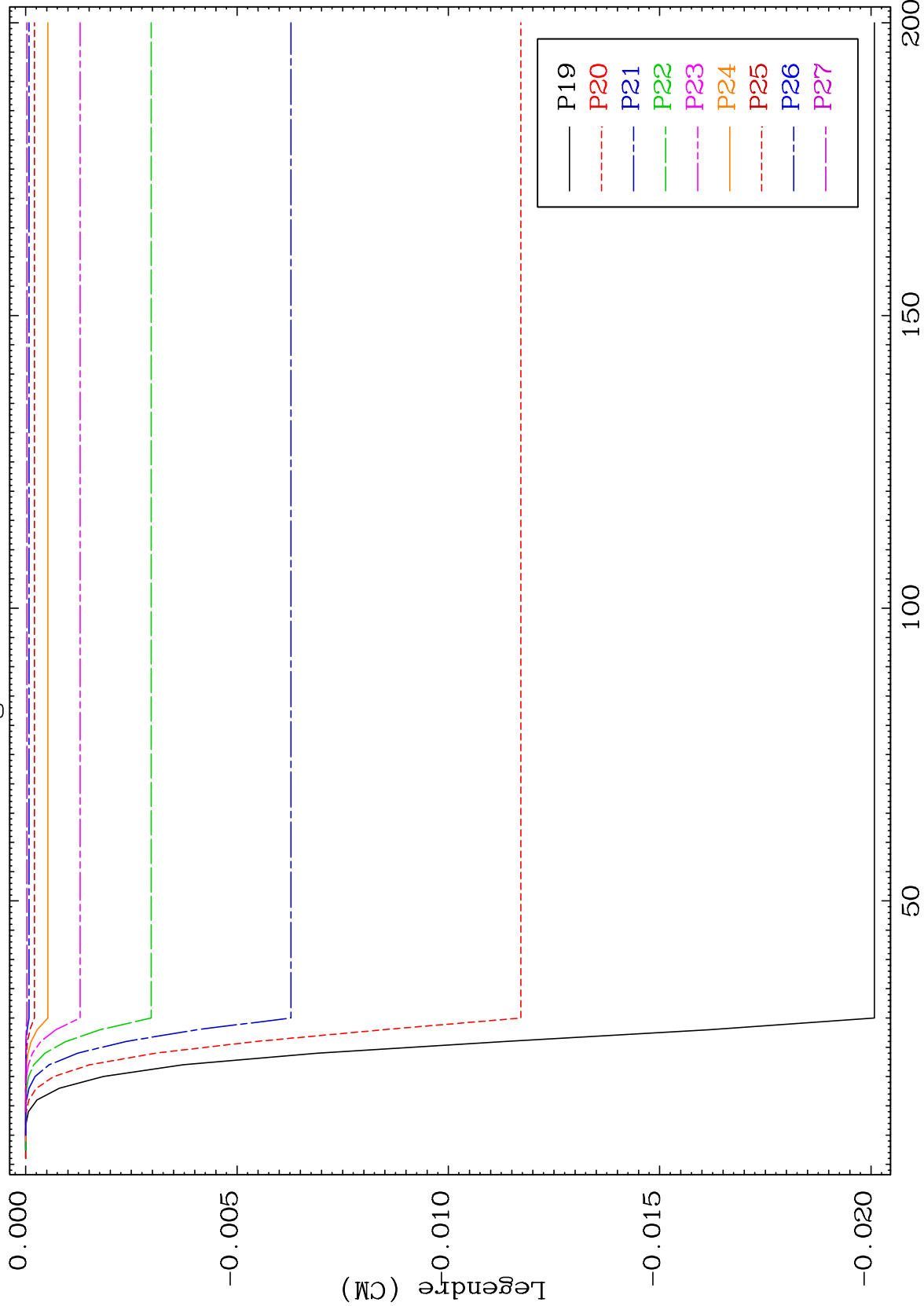


MAT 5916

MT= 62 (n,n') Level

59-Pr-138

Legendre Coefficients



58

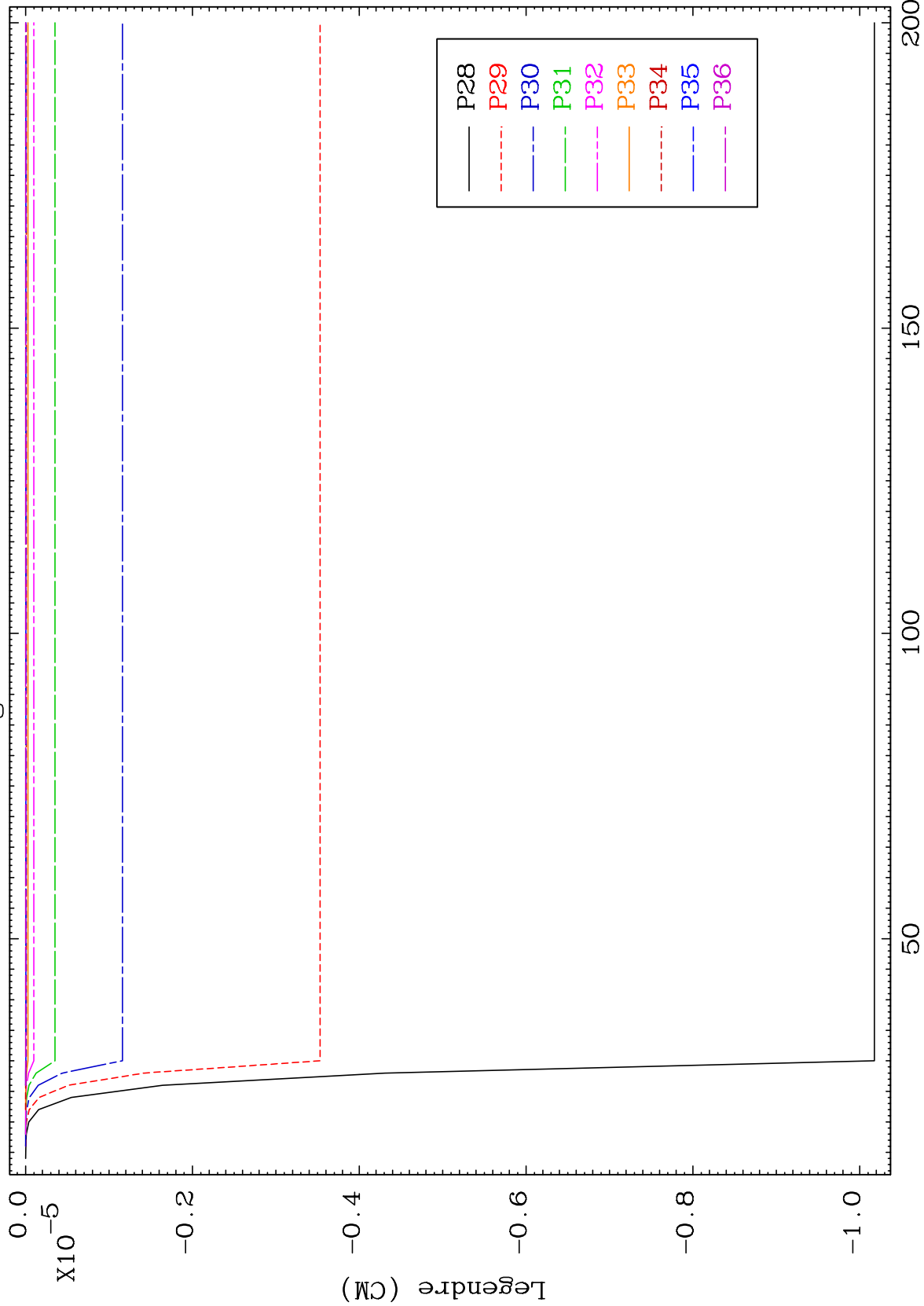
Incident Energy (MeV)

59-Pr-138

MAT 5916

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

59-Pr-138



59-Pr-138

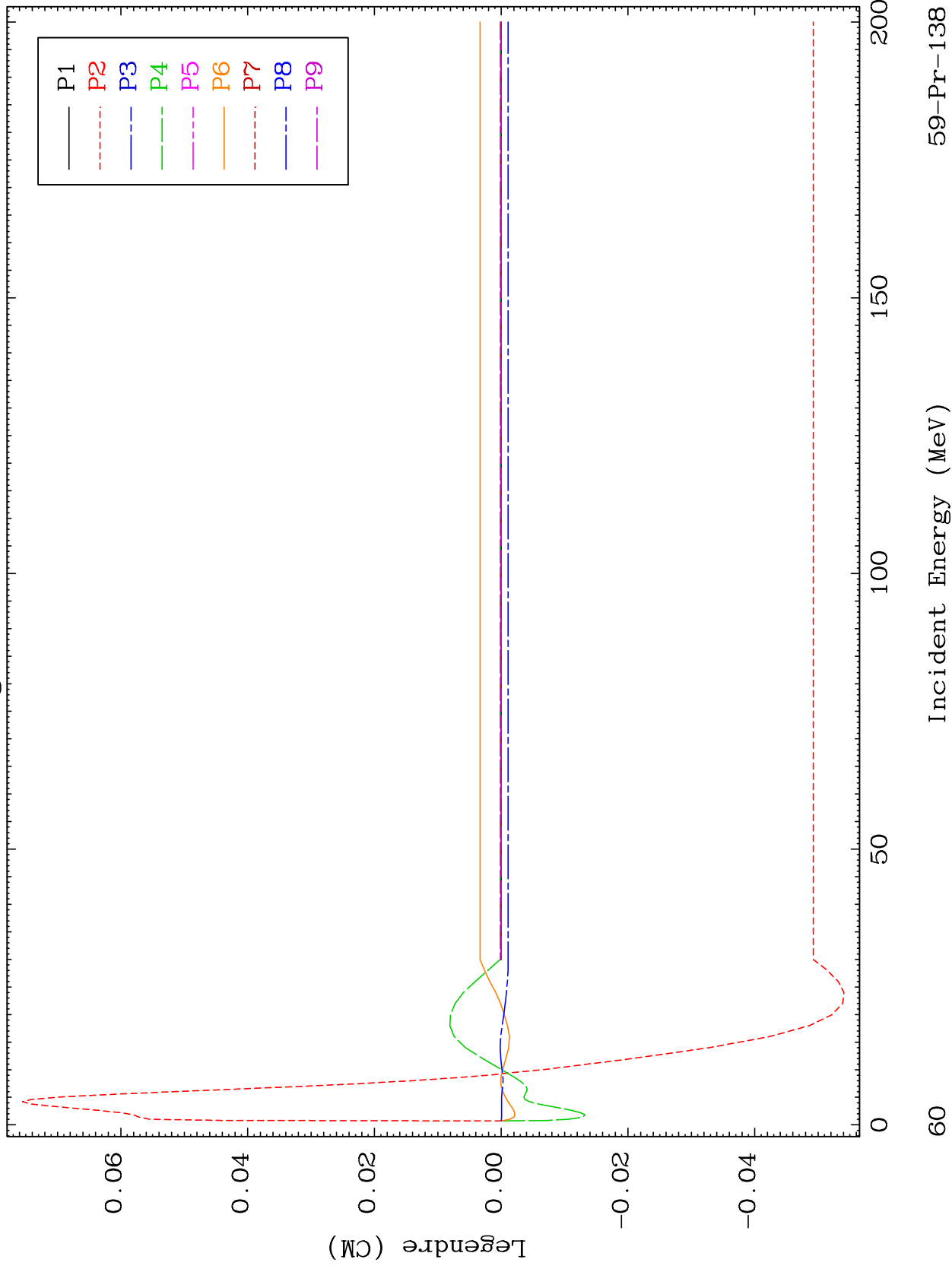
Incident Energy (MeV)

59

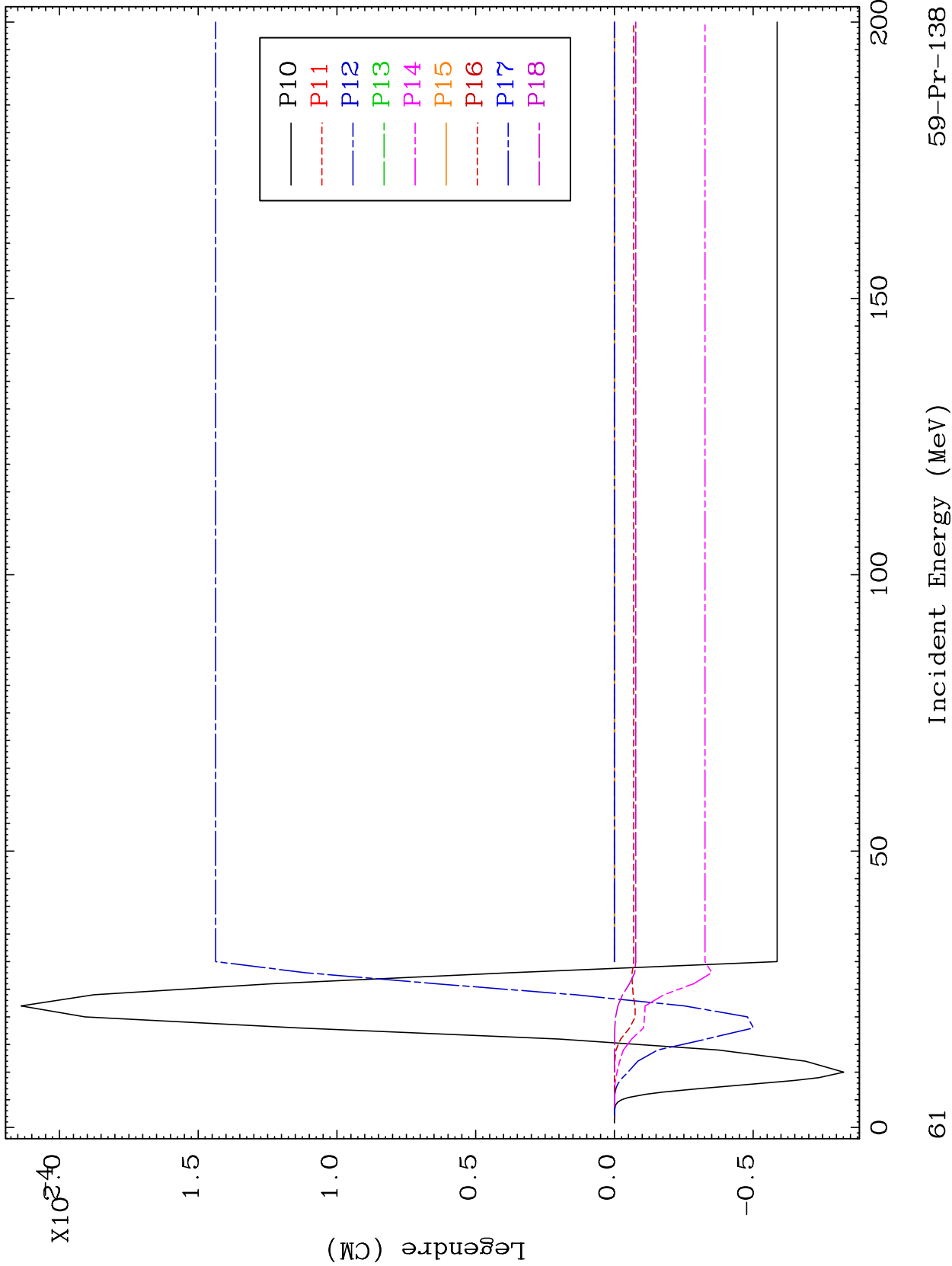
MAT 5916

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

59-Pr-138



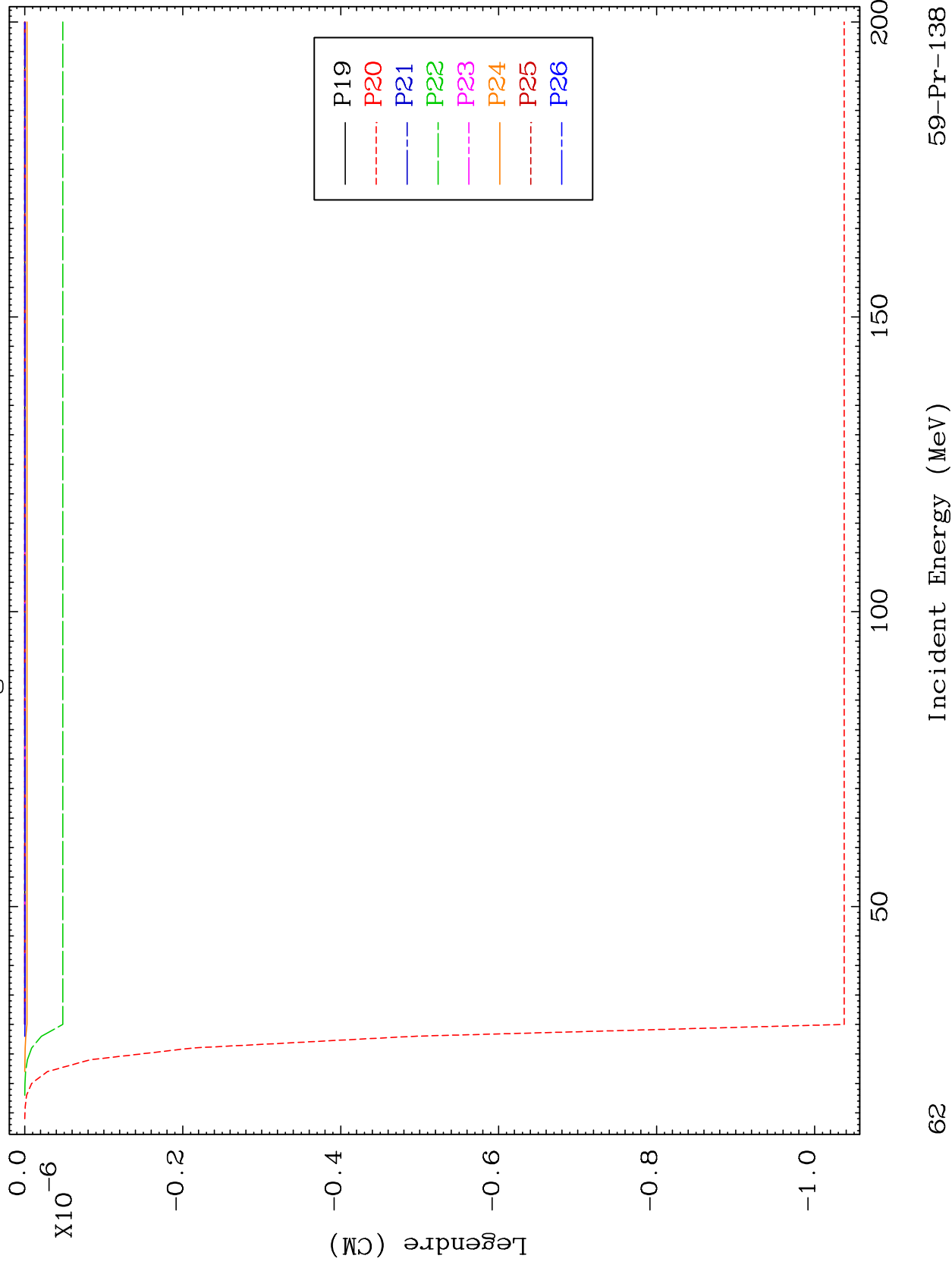
59-Pr-138



MAT 5916

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

59-Pr-138



62

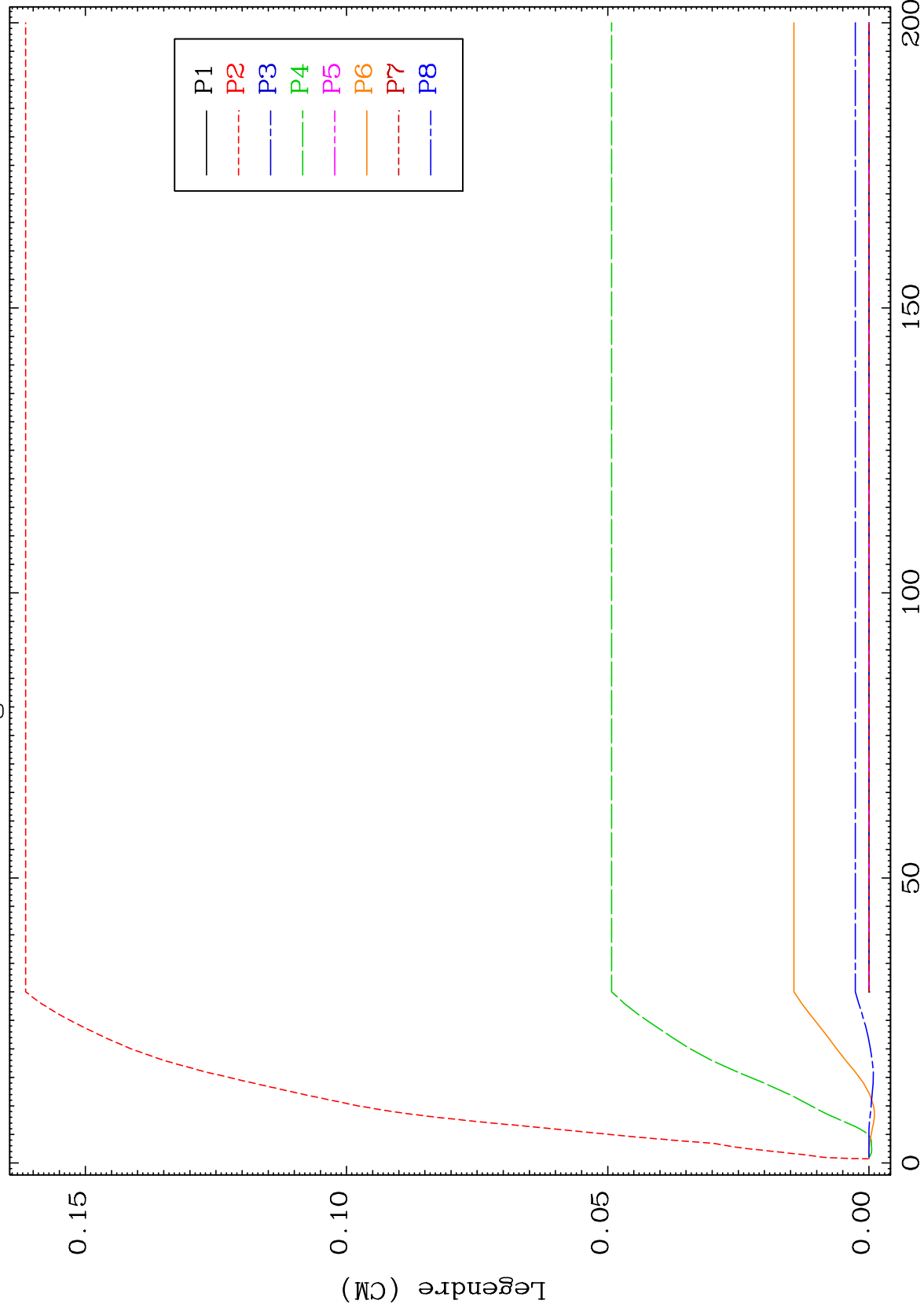
Incident Energy (MeV)

59-Pr-138

MAT 5916

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

59-Pr-138



63

Incident Energy (MeV)

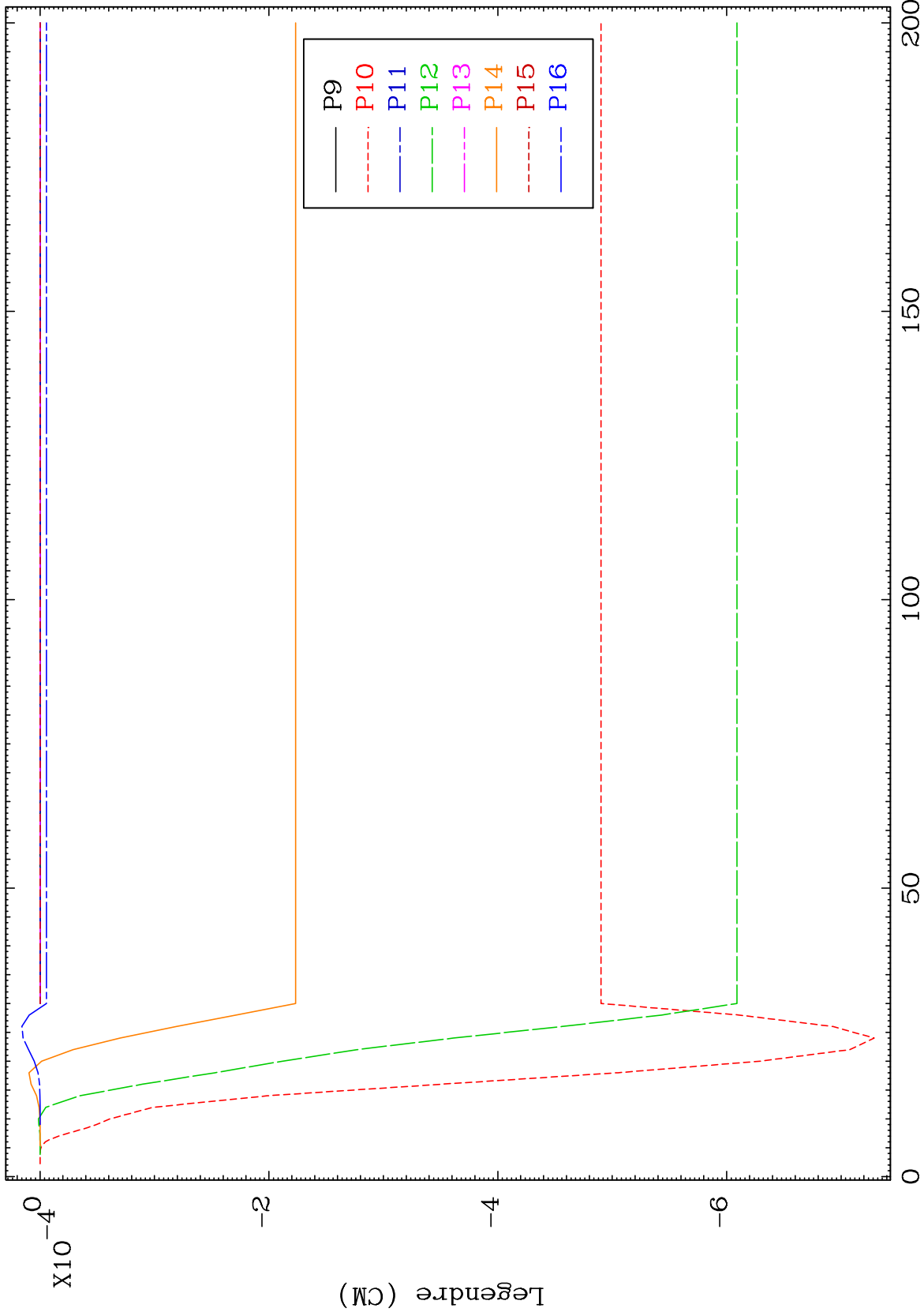
59-Pr-138

MAT 5916

MT= 64 (n,n') Level

59-Pr-138

Legendre Coefficients



64

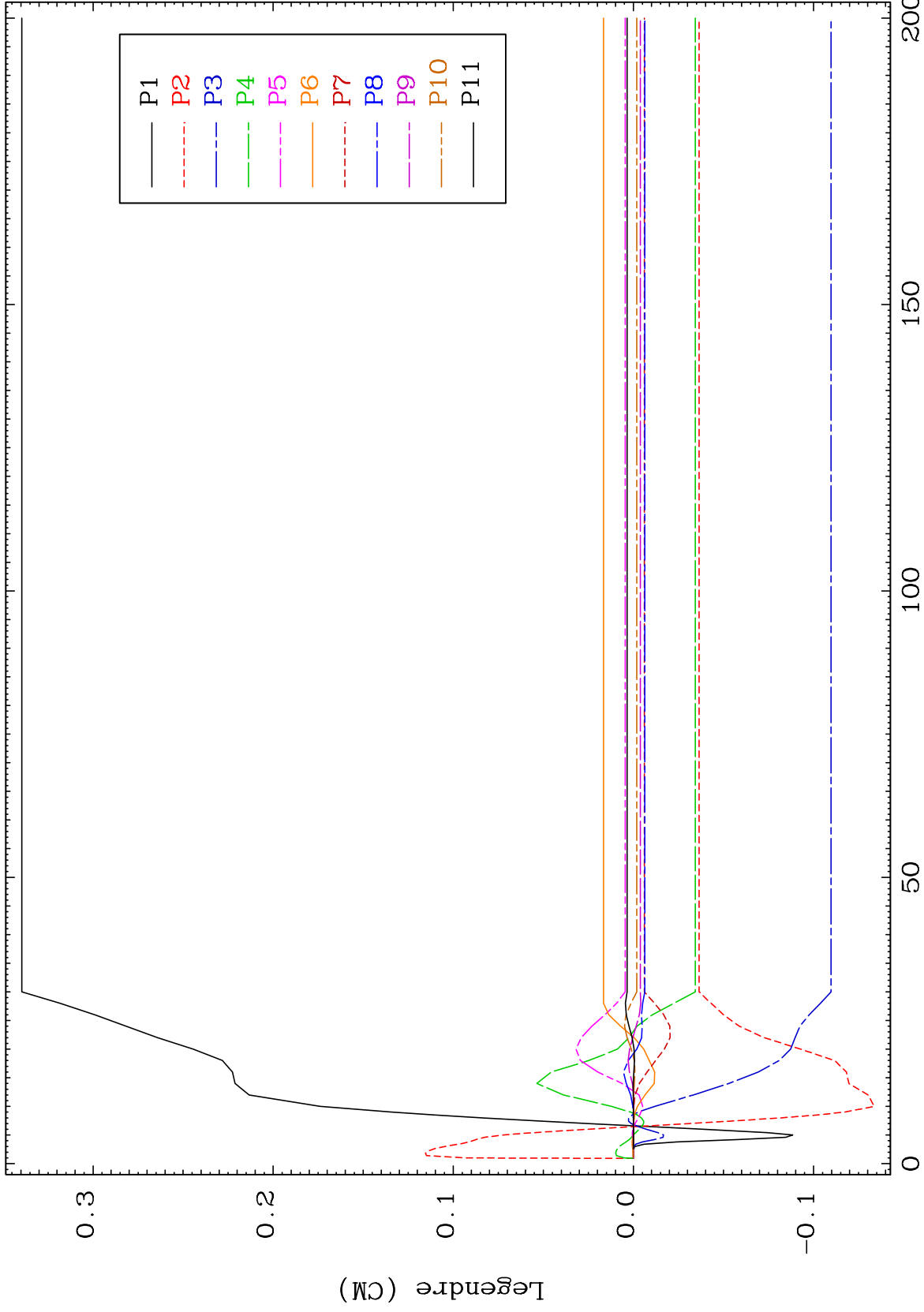
Incident Energy (MeV)

59-Pr-138

MAT 5916

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

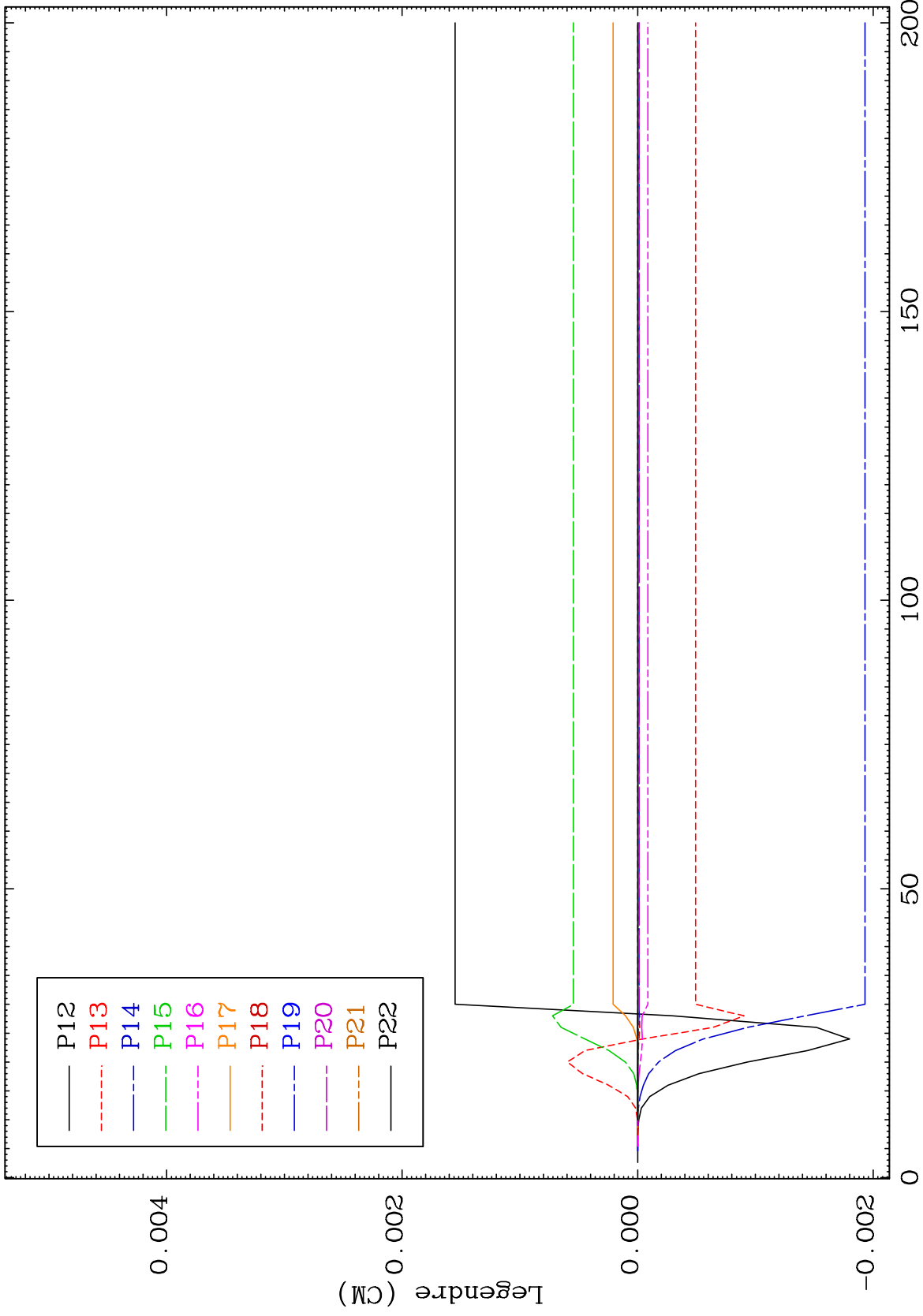
59-Pr-138



66

Incident Energy (MeV)

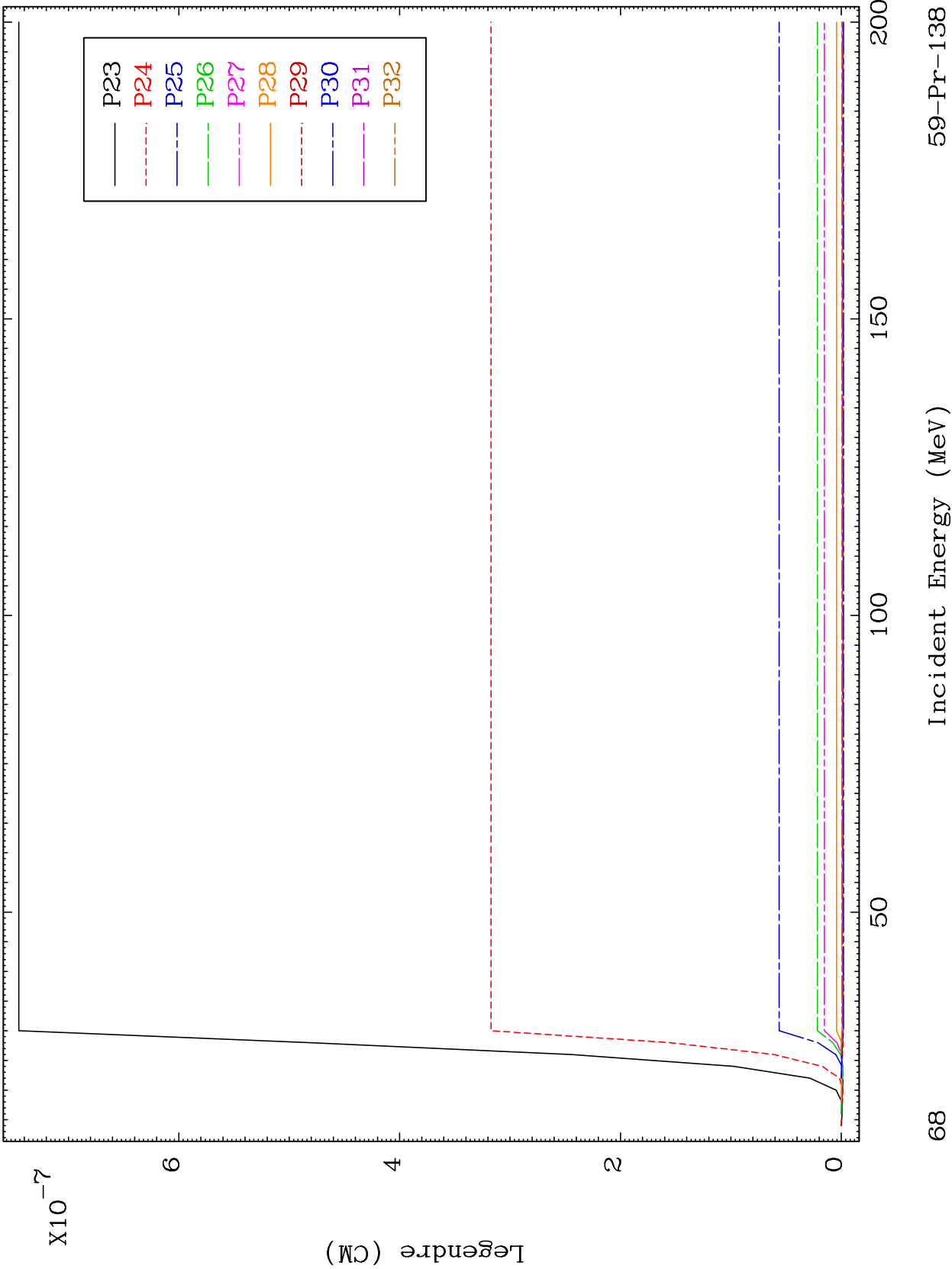
59-Pr-138



MAT 5916

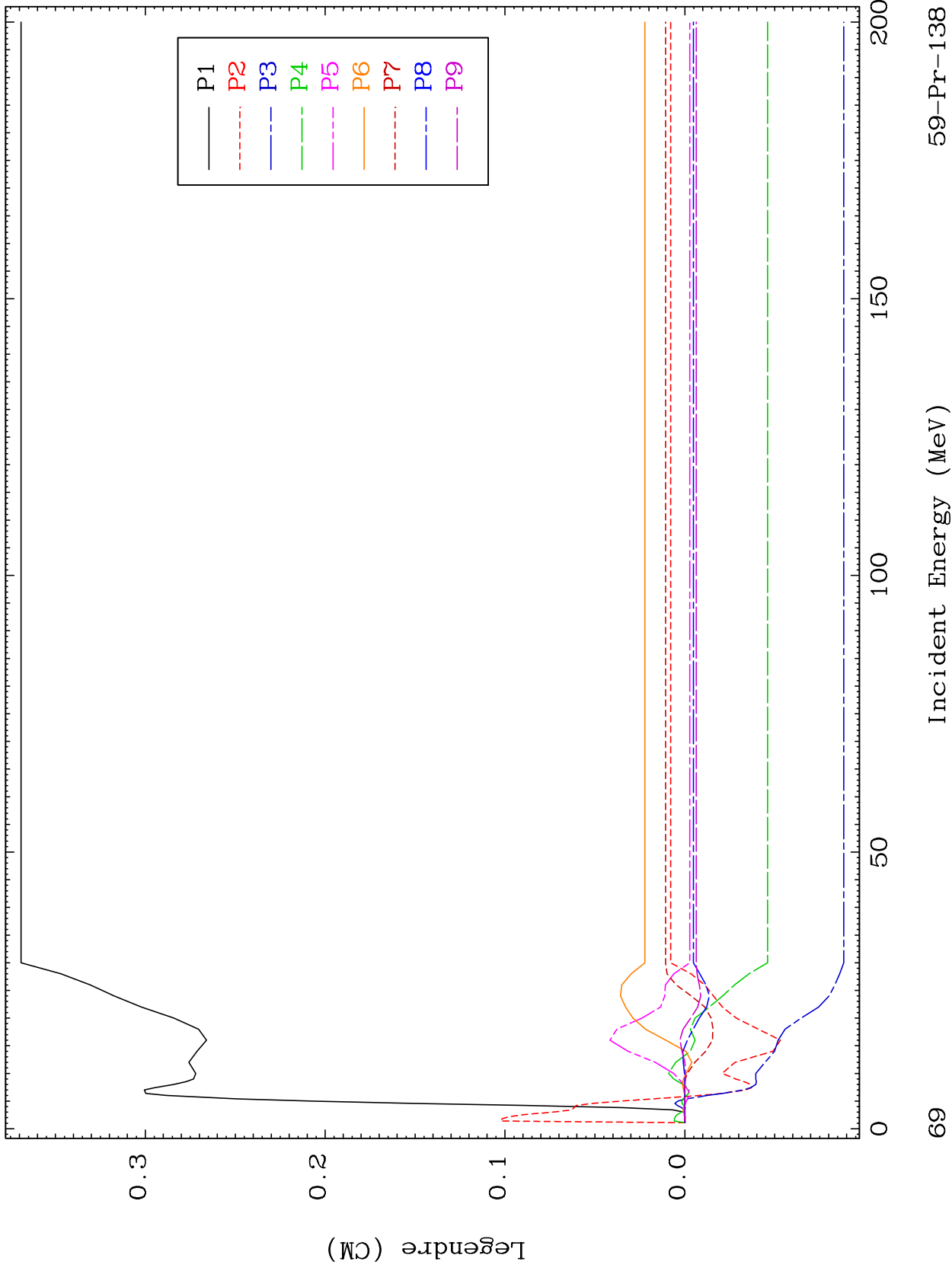
MT= 65 (n,n') Level
Legendre Coefficients

59-Pr-138



68

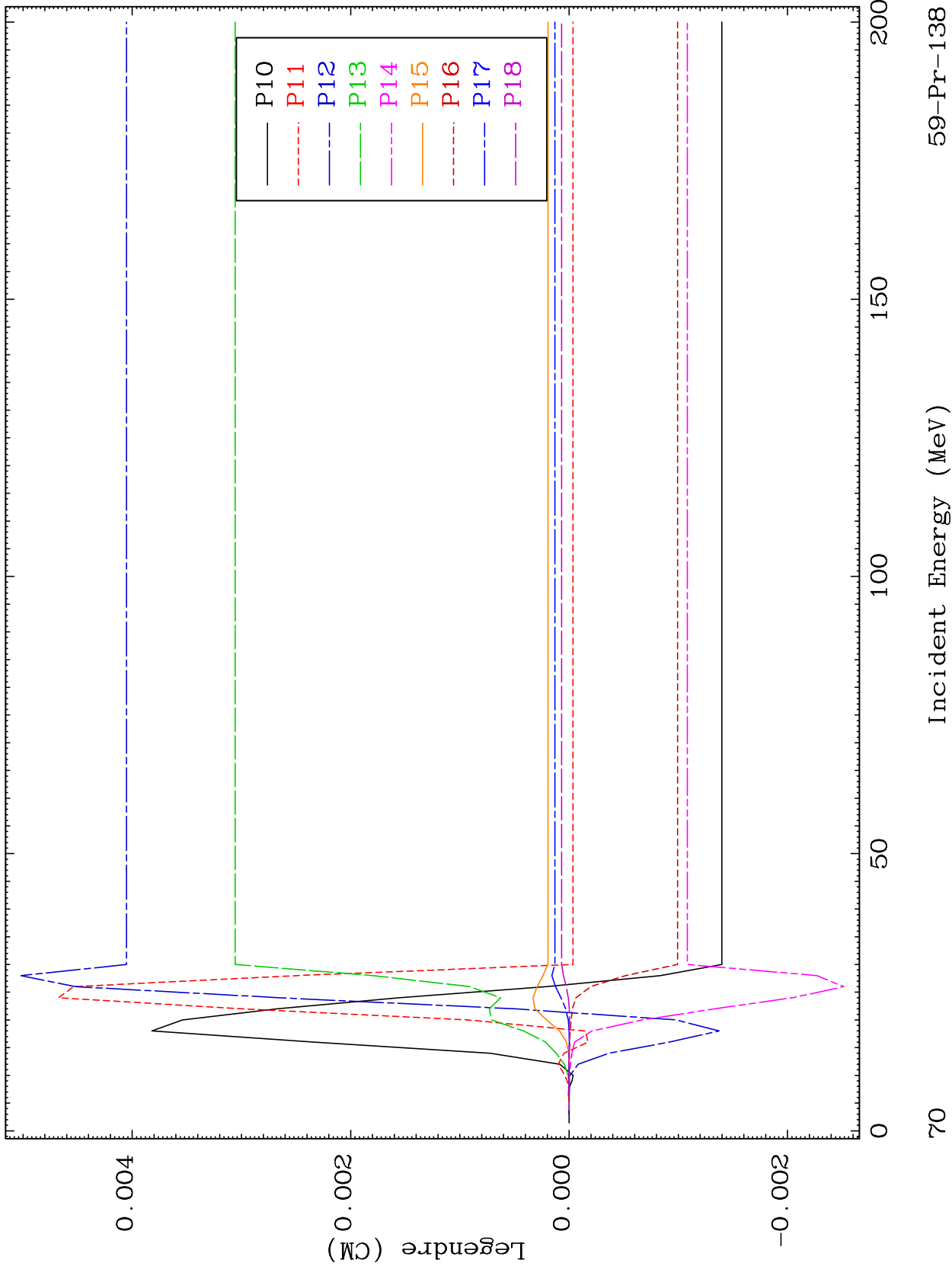
59-Pr-138



MAT 5916

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

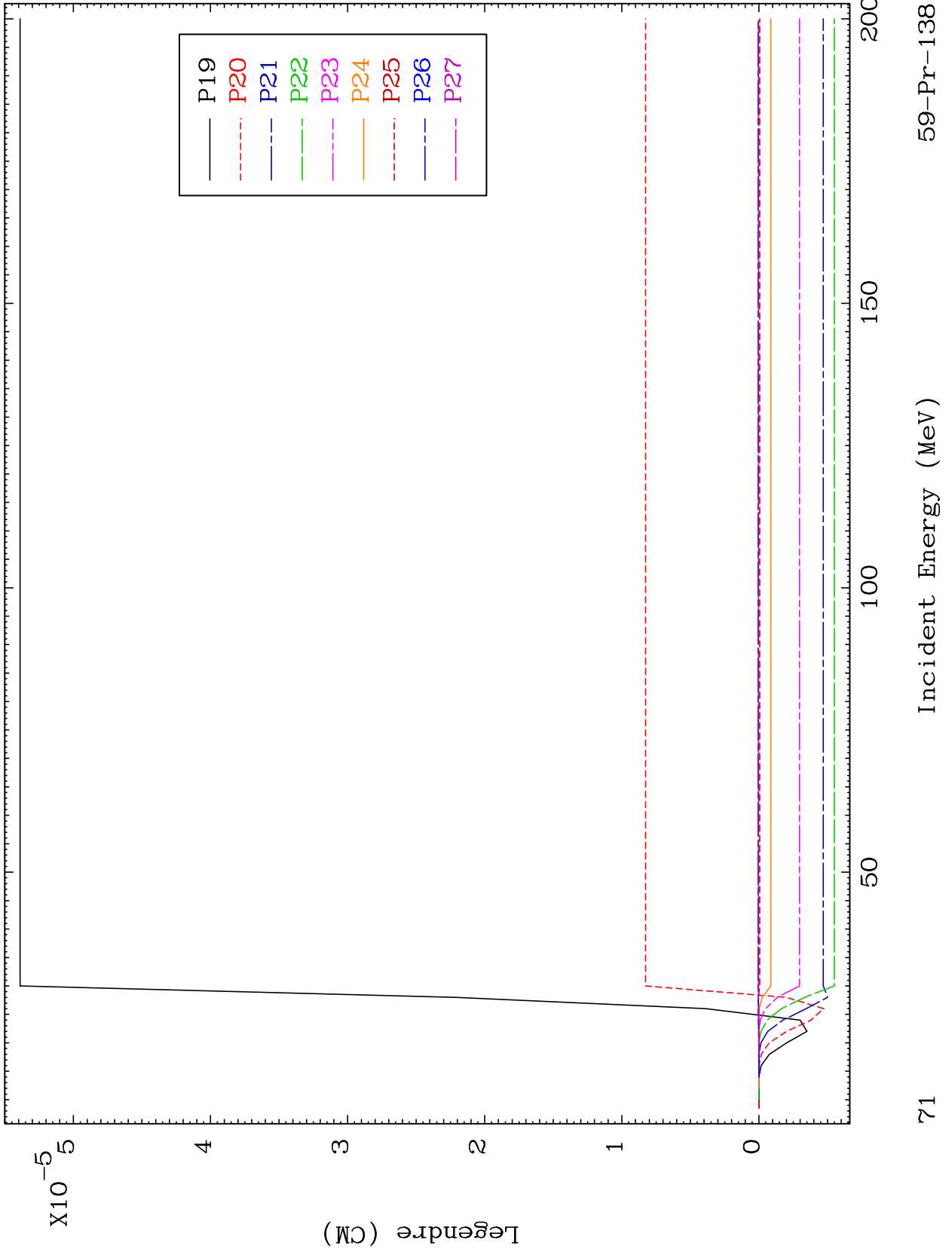
59-Pr-138

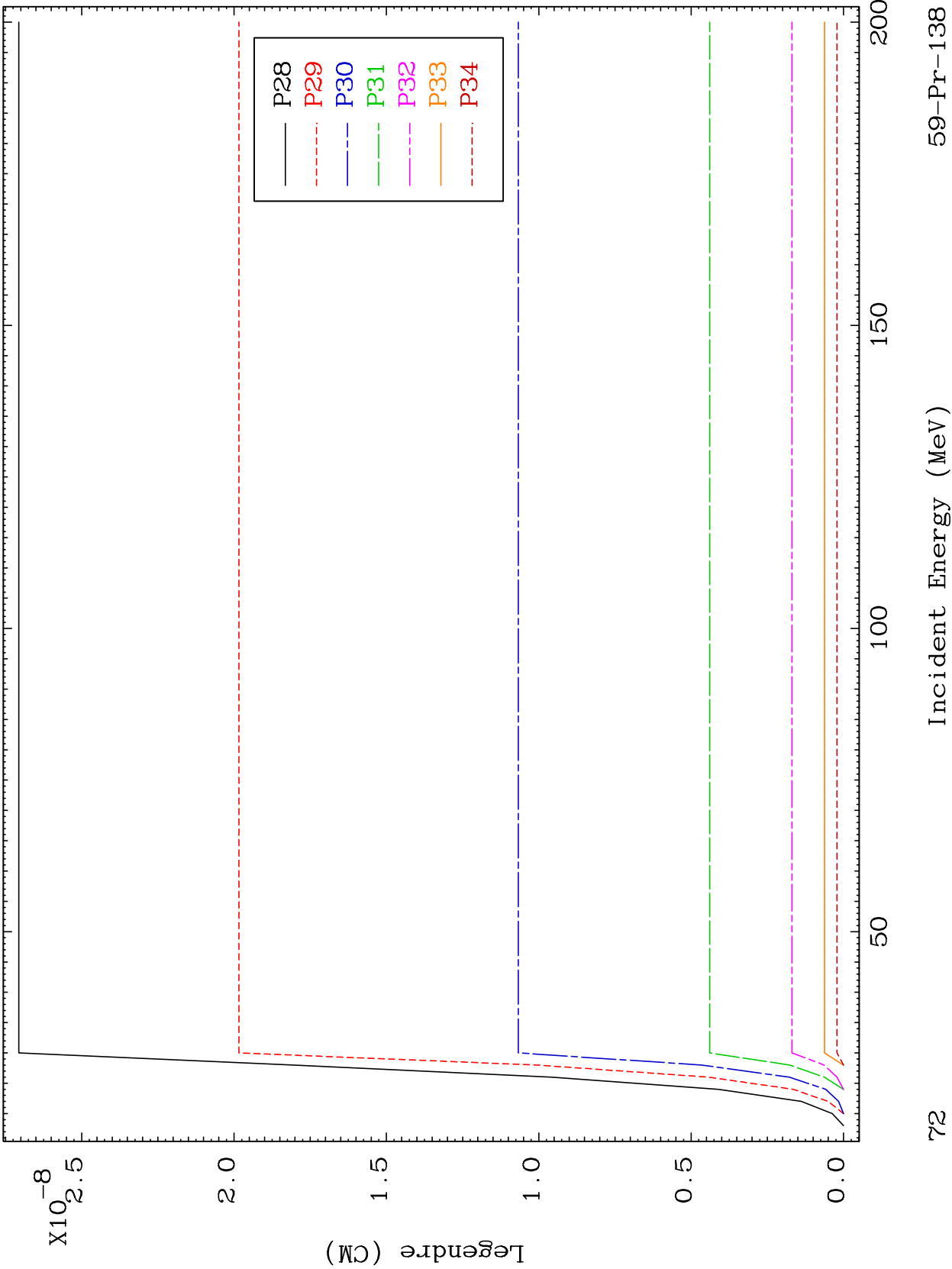


59-Pr-138

Incident Energy (MeV)

70

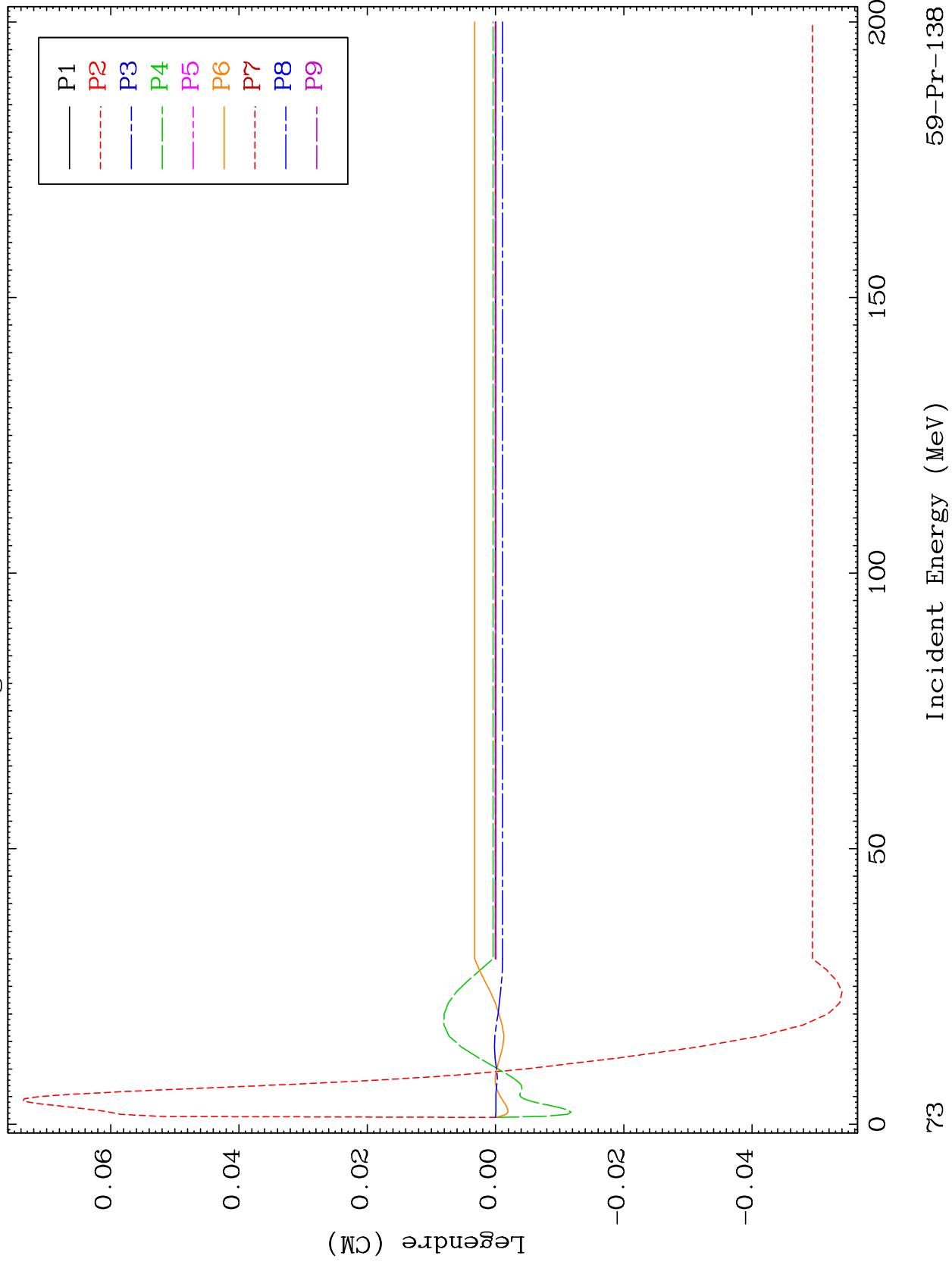




MAT 5916

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

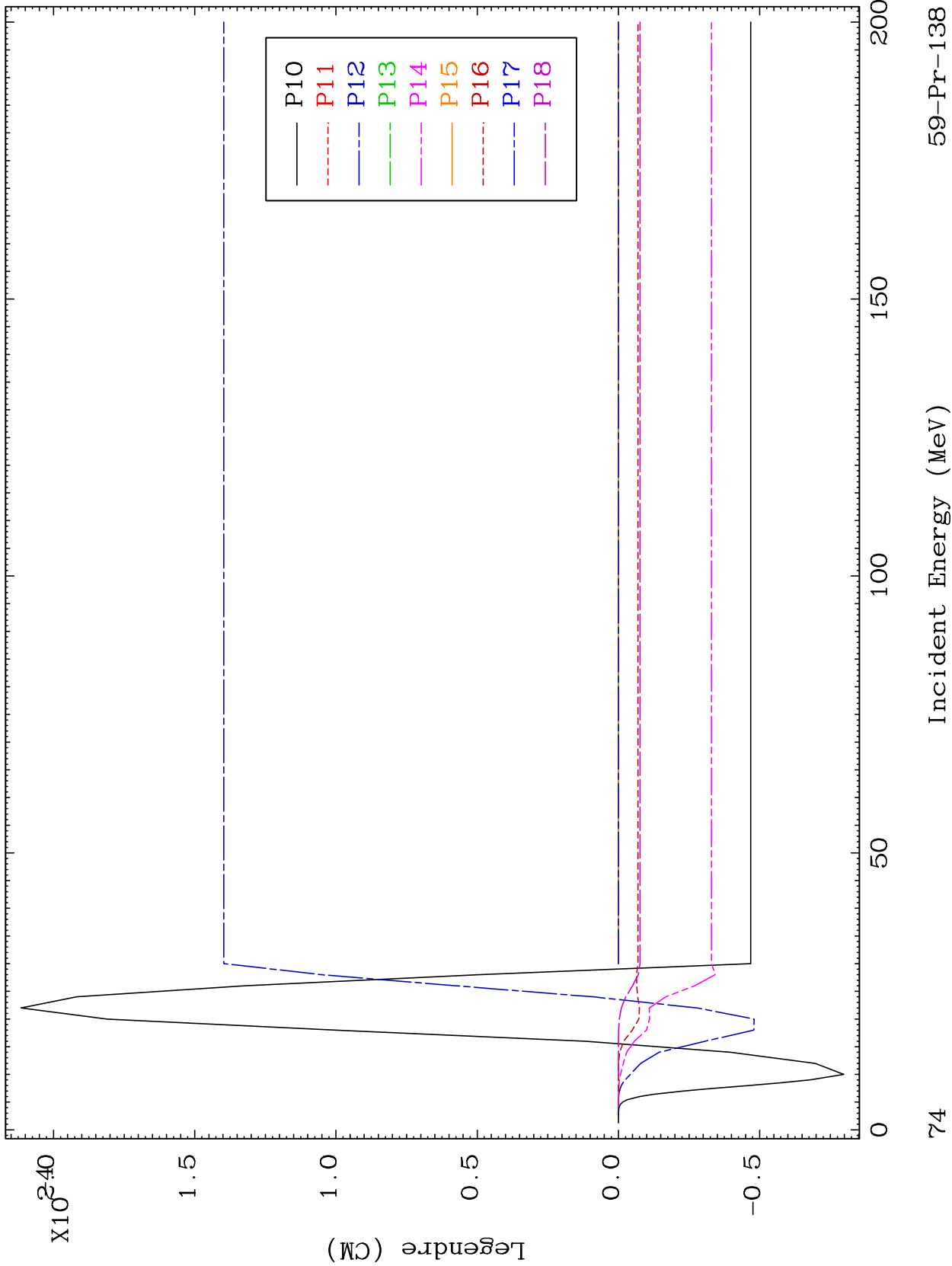
59-Pr-138



59-Pr-138

Incident Energy (MeV)

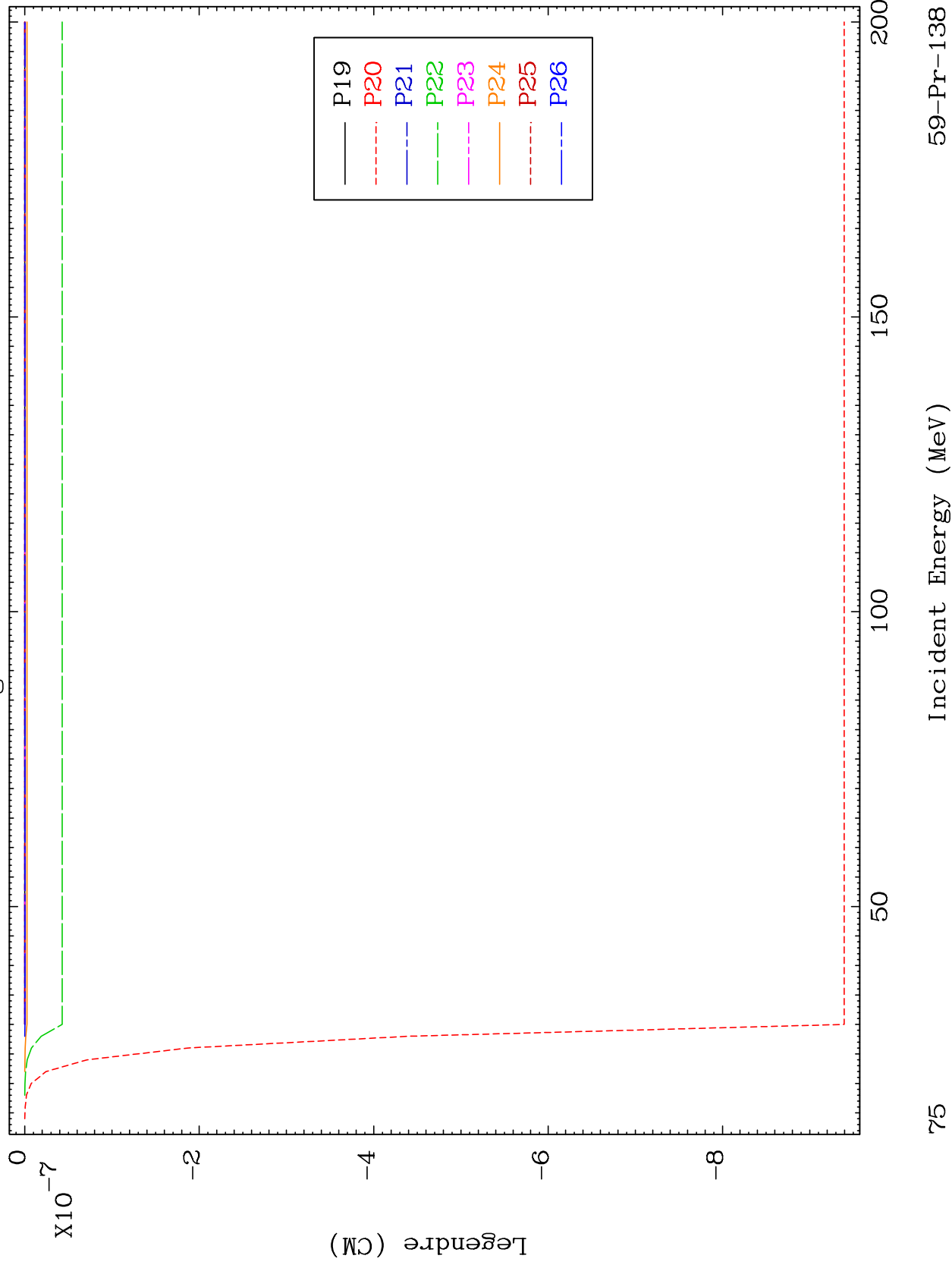
73



MAT 5916

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

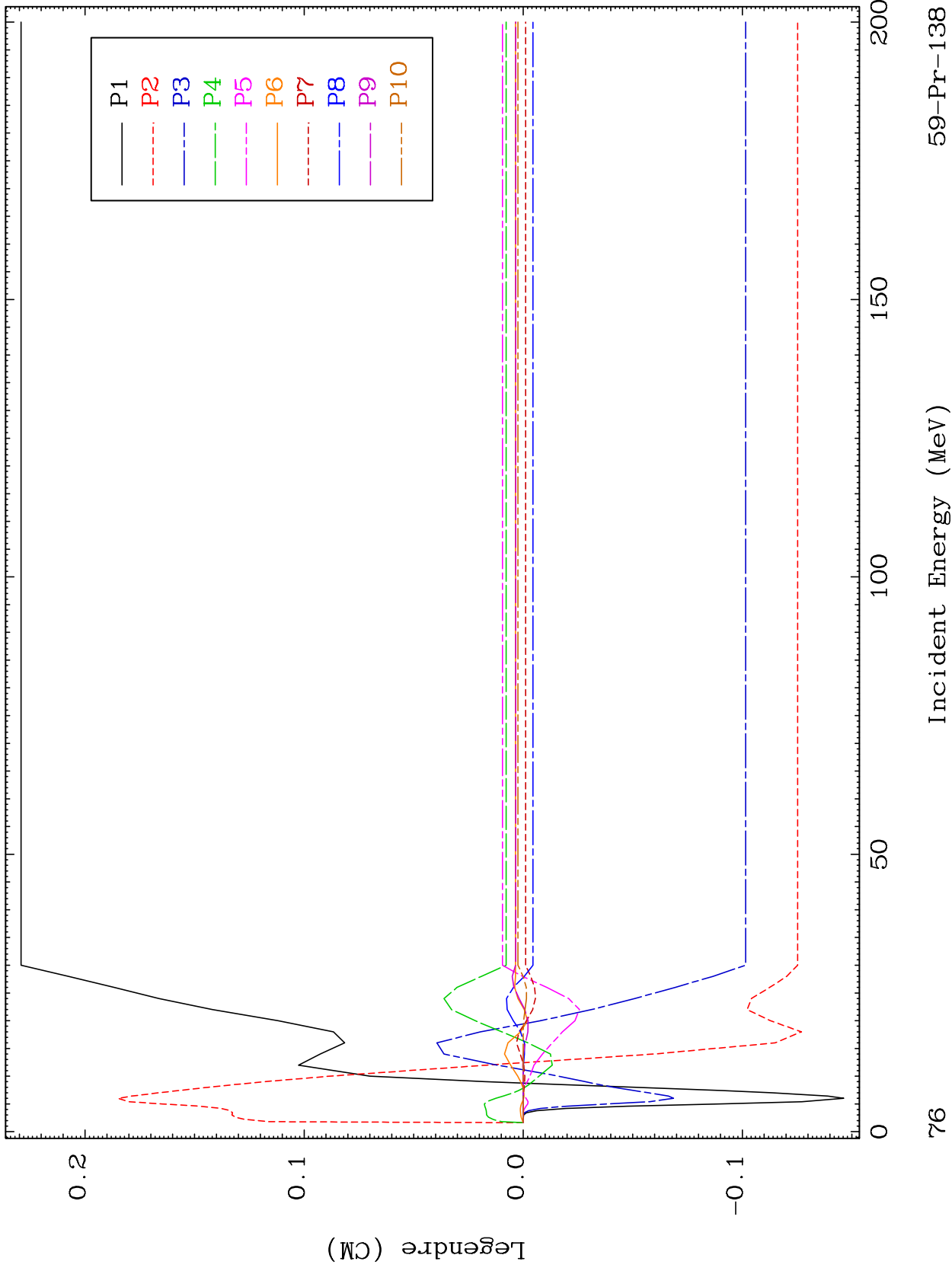
59-Pr-138

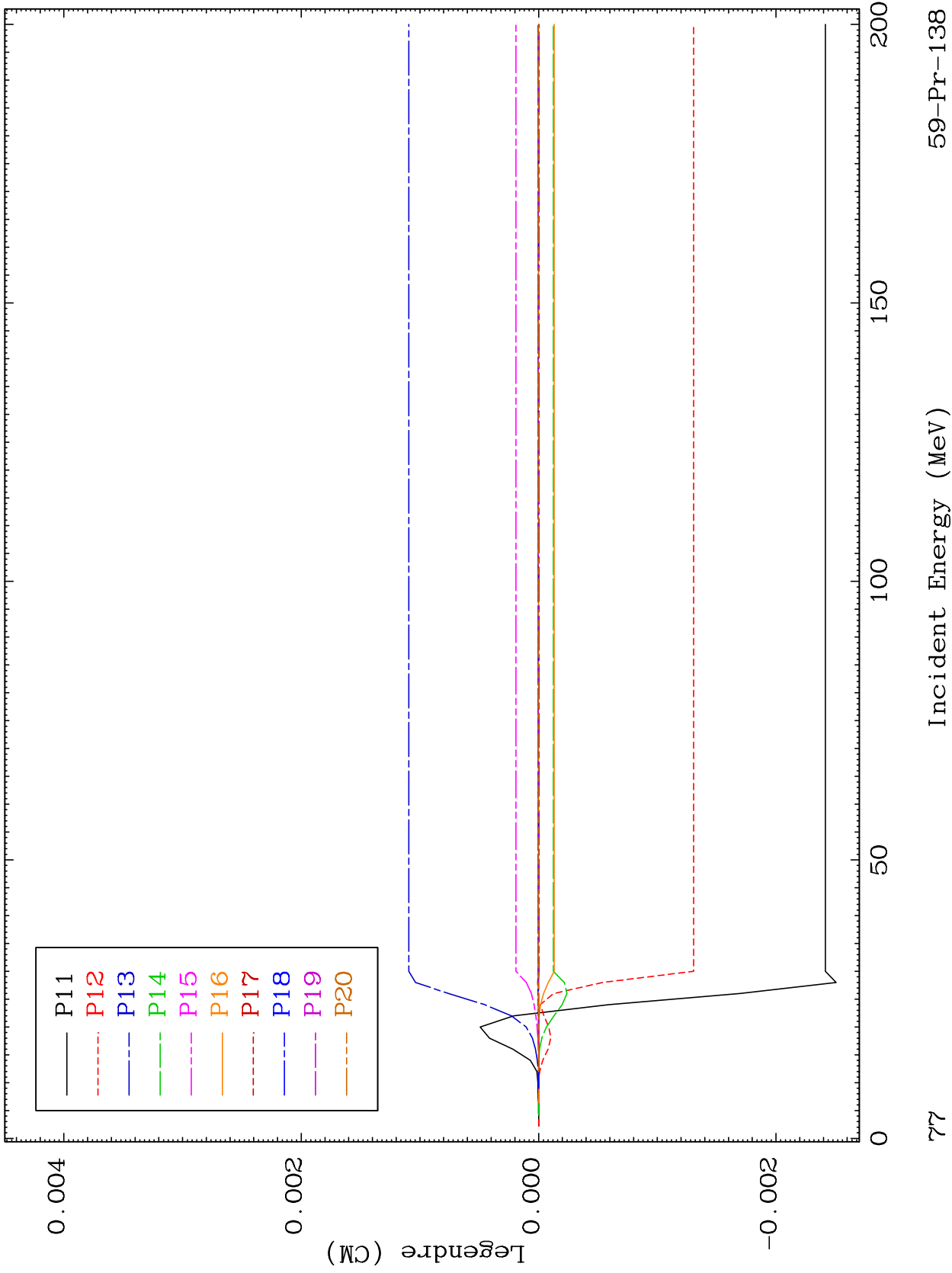


75

Incident Energy (MeV)

59-Pr-138

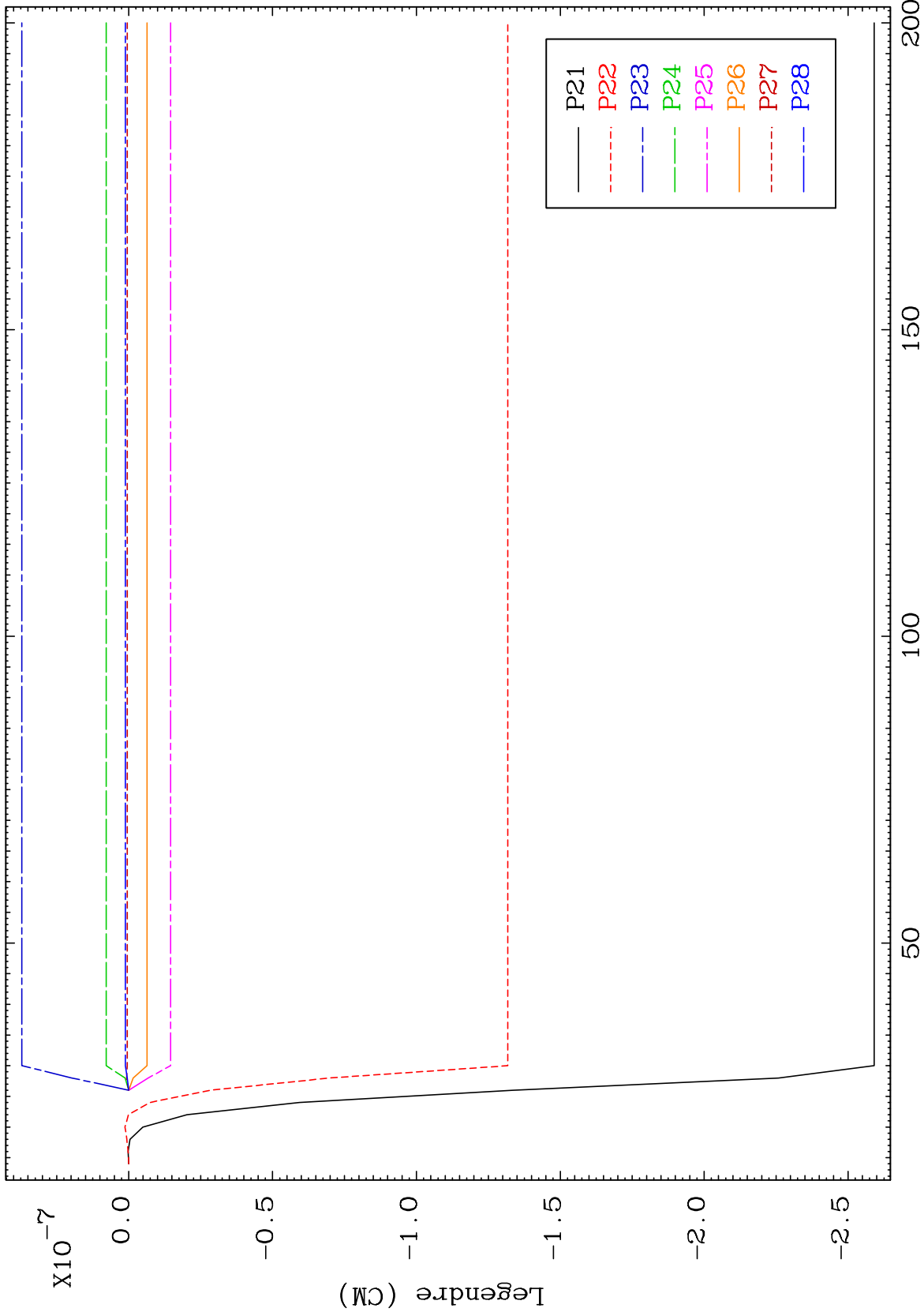




MAT 5916

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

59-Pr-138



78

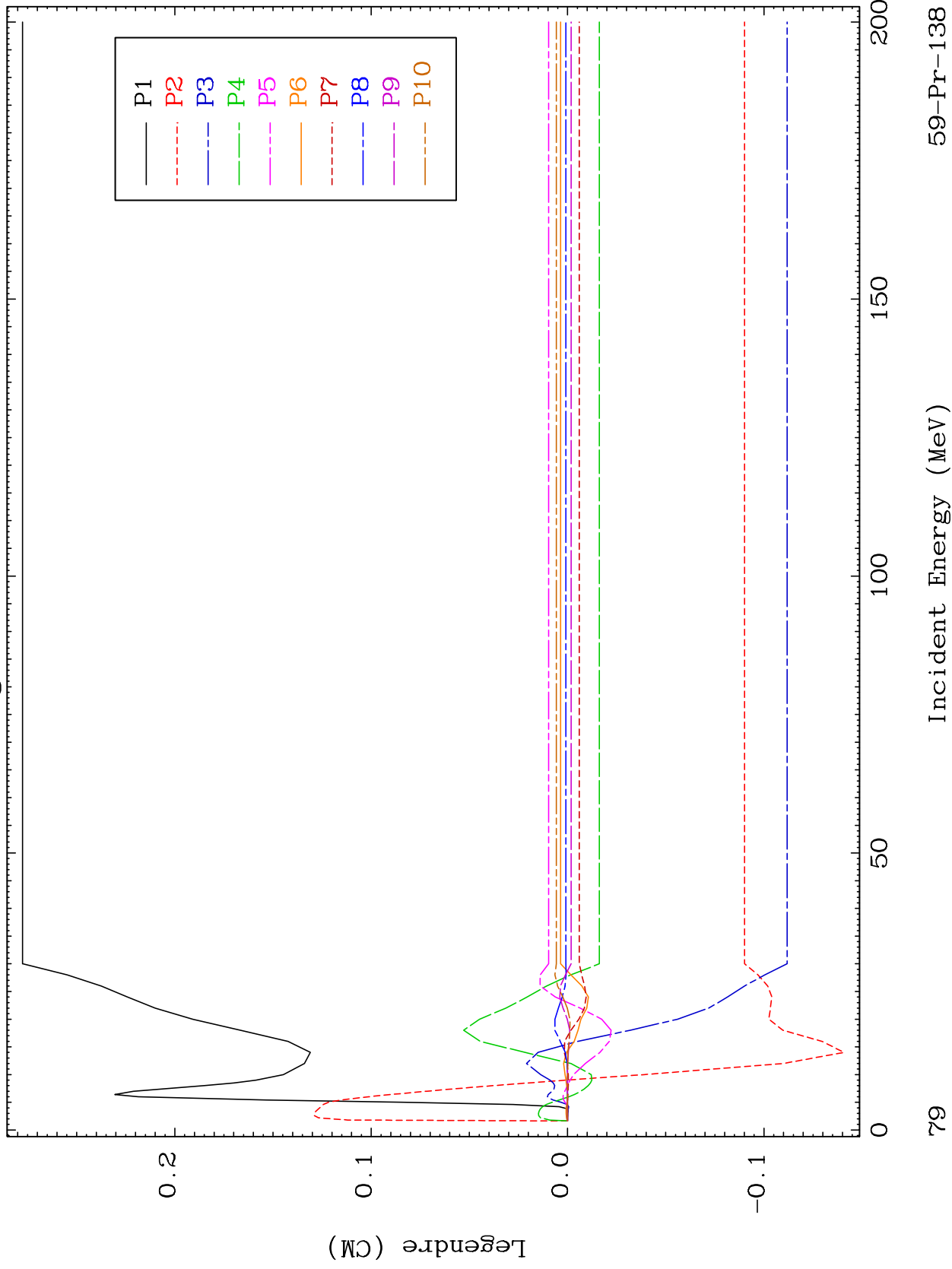
Incident Energy (MeV)

59-Pr-138

MAT 5916

MT= 69 (n,n') Level
Legendre Coefficients

59-Pr-138



59-Pr-138

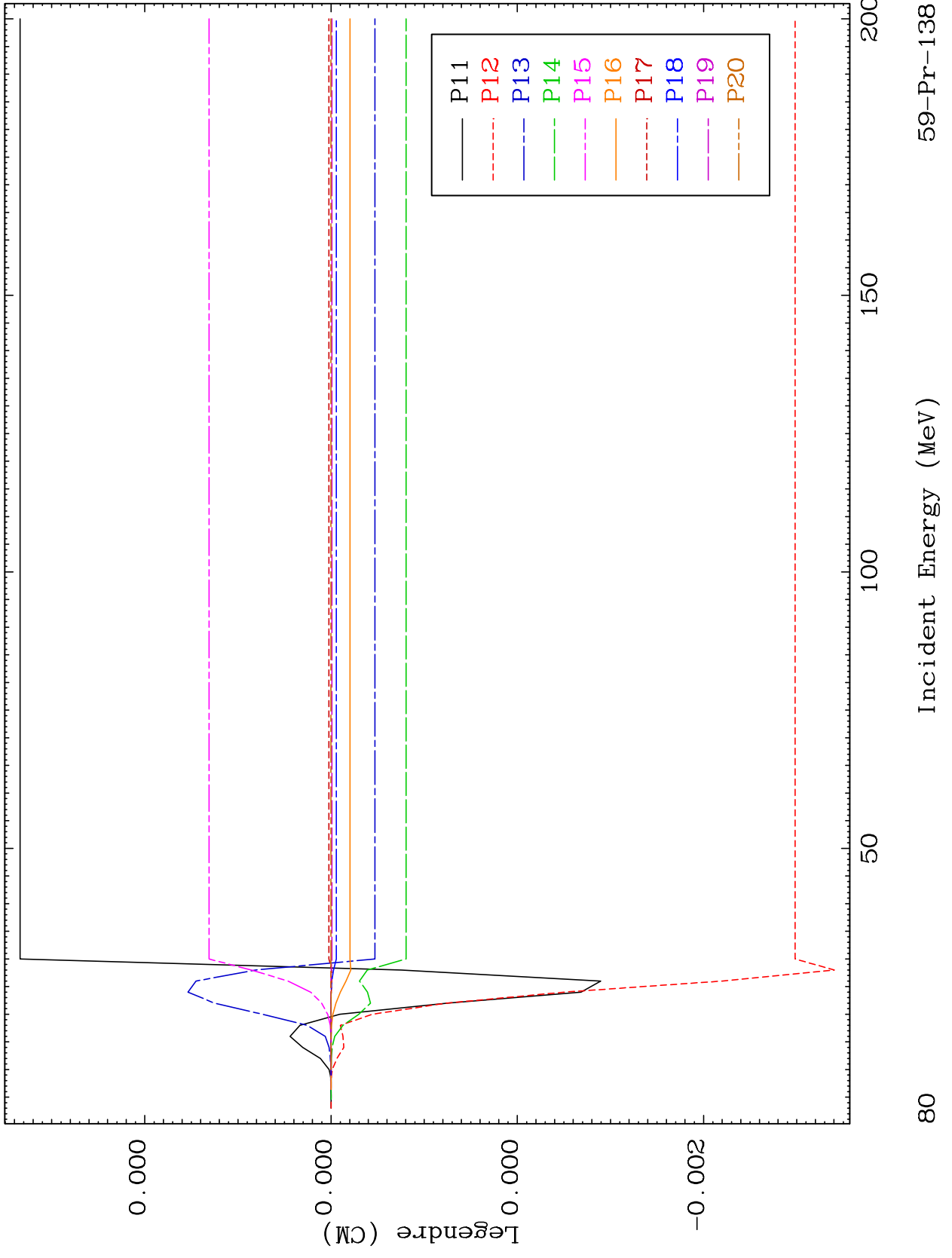
Incident Energy (MeV)

79

MAT 5916

MT= 69 (n,n') Level
Legendre Coefficients

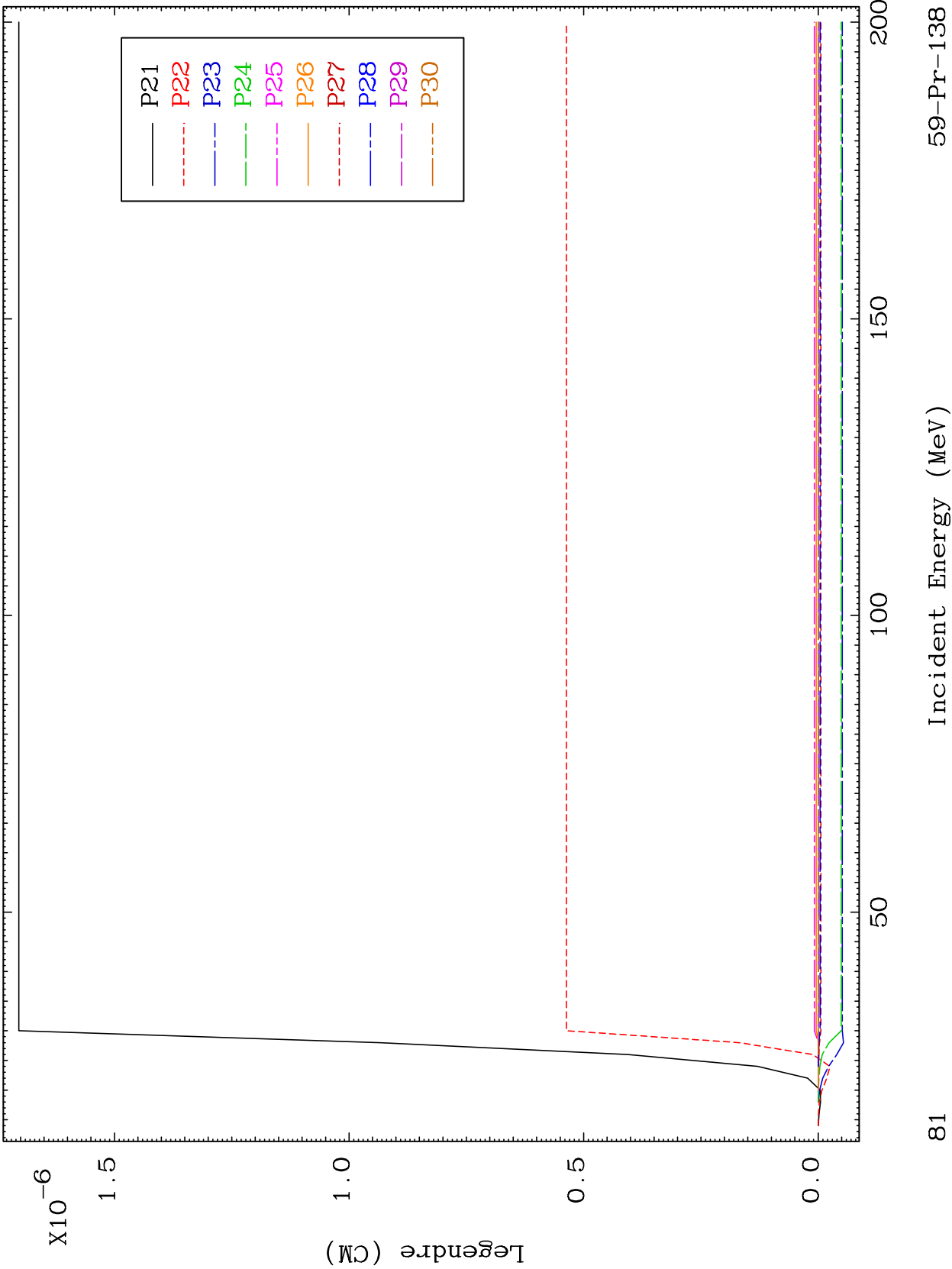
59-Pr-138



80

Incident Energy (MeV)

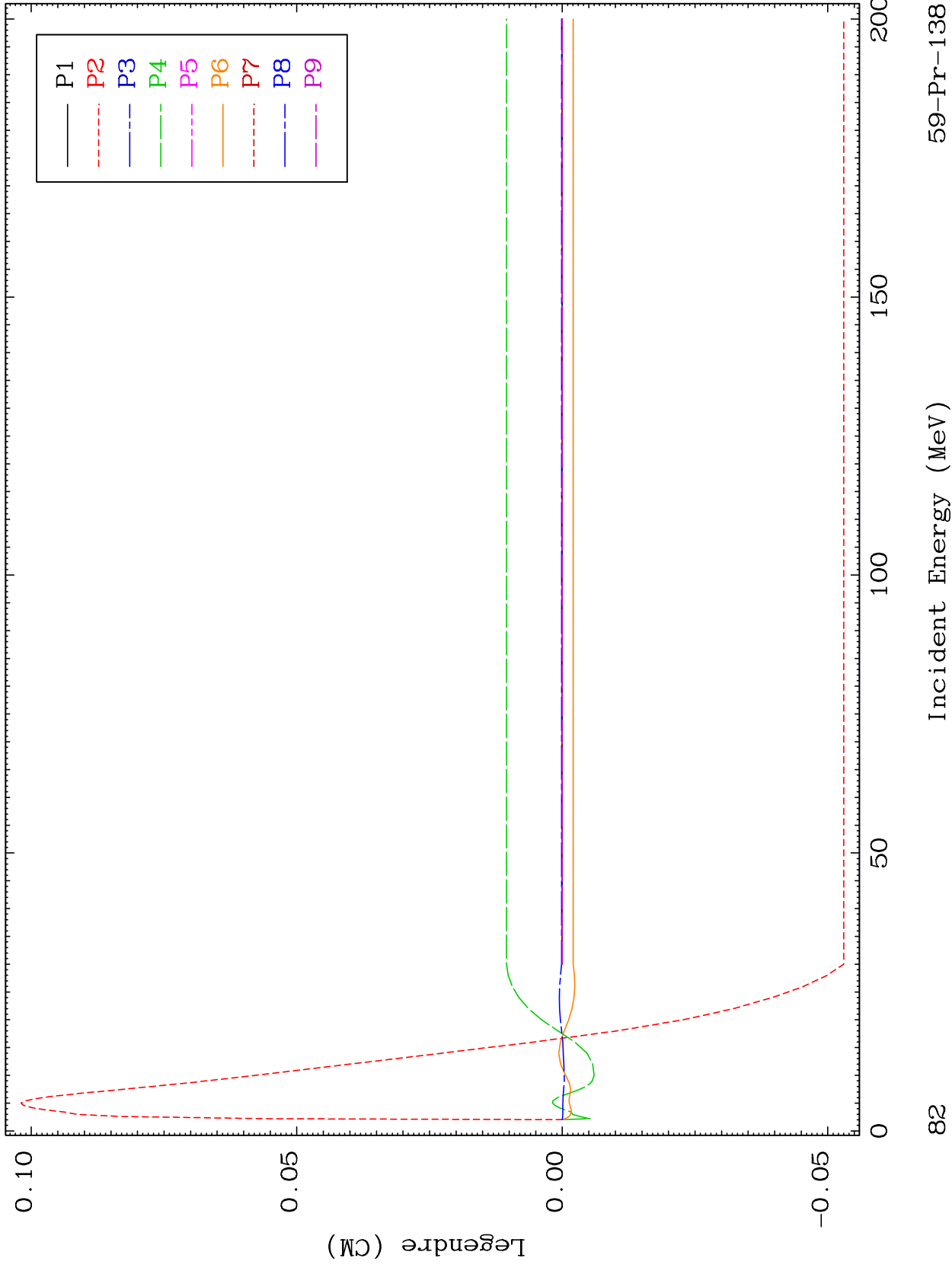
59-Pr-138

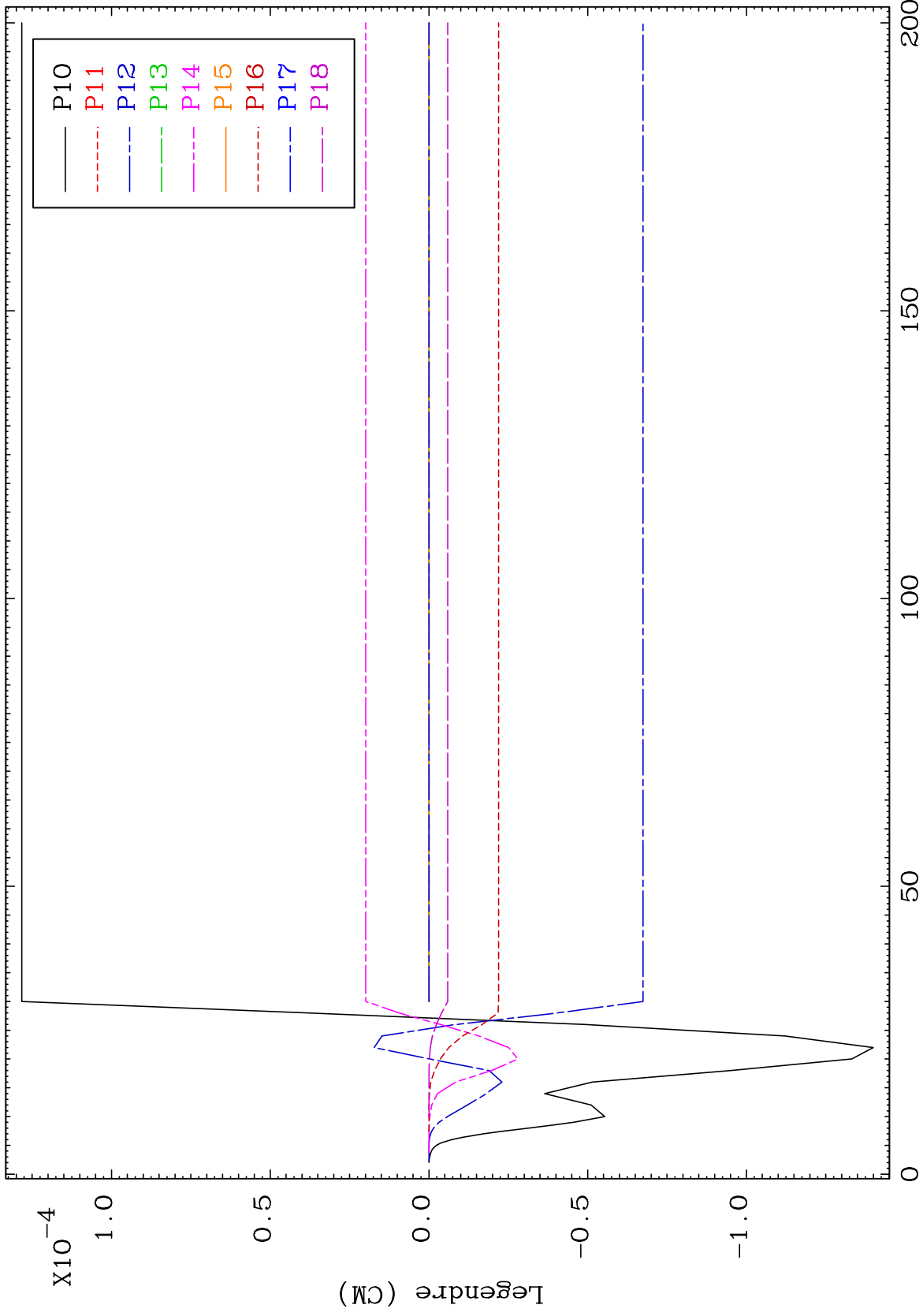


MAT 5916

MT= 70 (n,n') Level
Legendre Coefficients

59-Pr-138

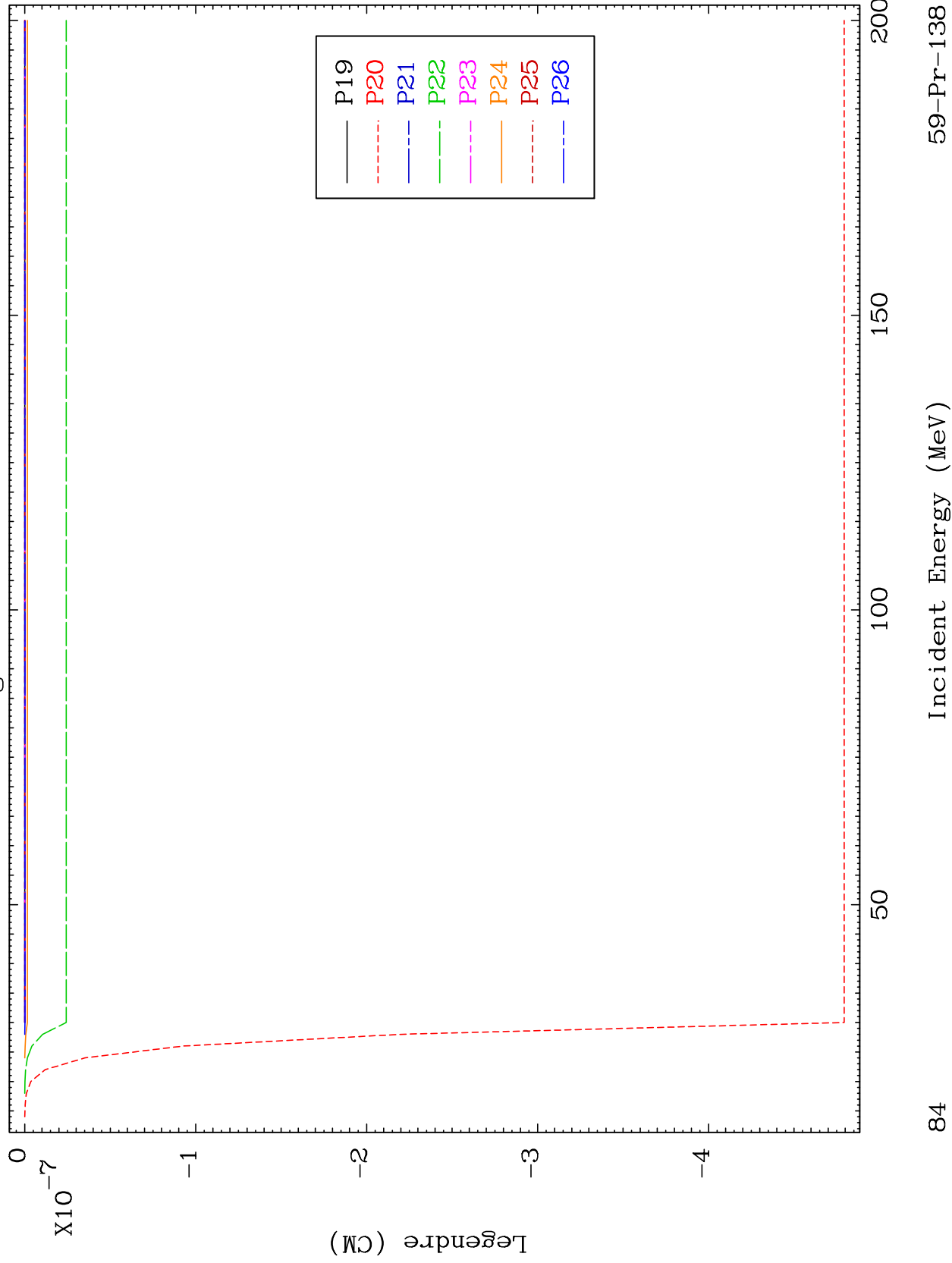




MAT 5916

MT= 70 (n,n') Level
Legendre Coefficients

59-Pr-138



84

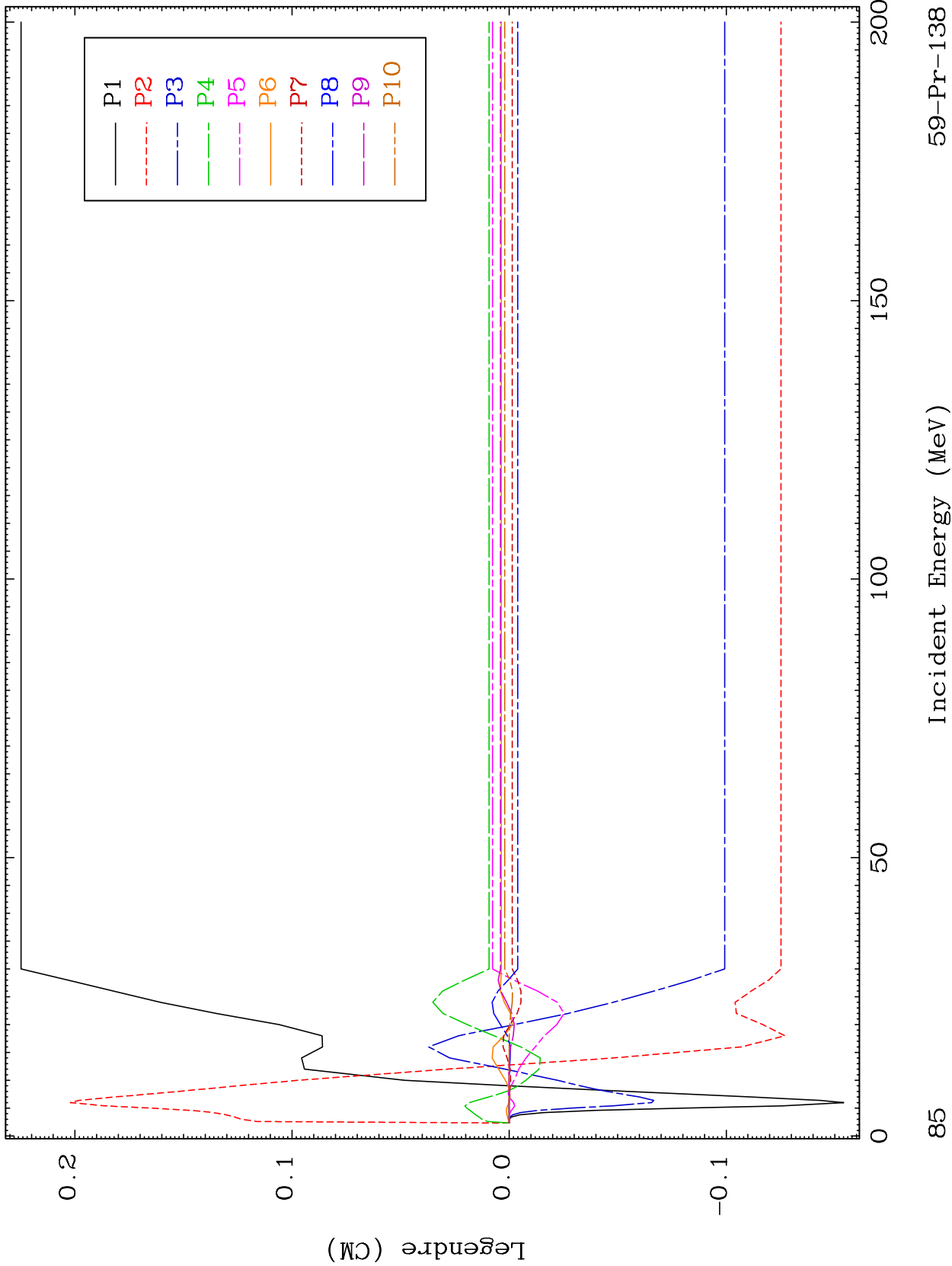
Incident Energy (MeV)

59-Pr-138

MAT 5916

MT= 71 (n,n') Level
Legendre Coefficients

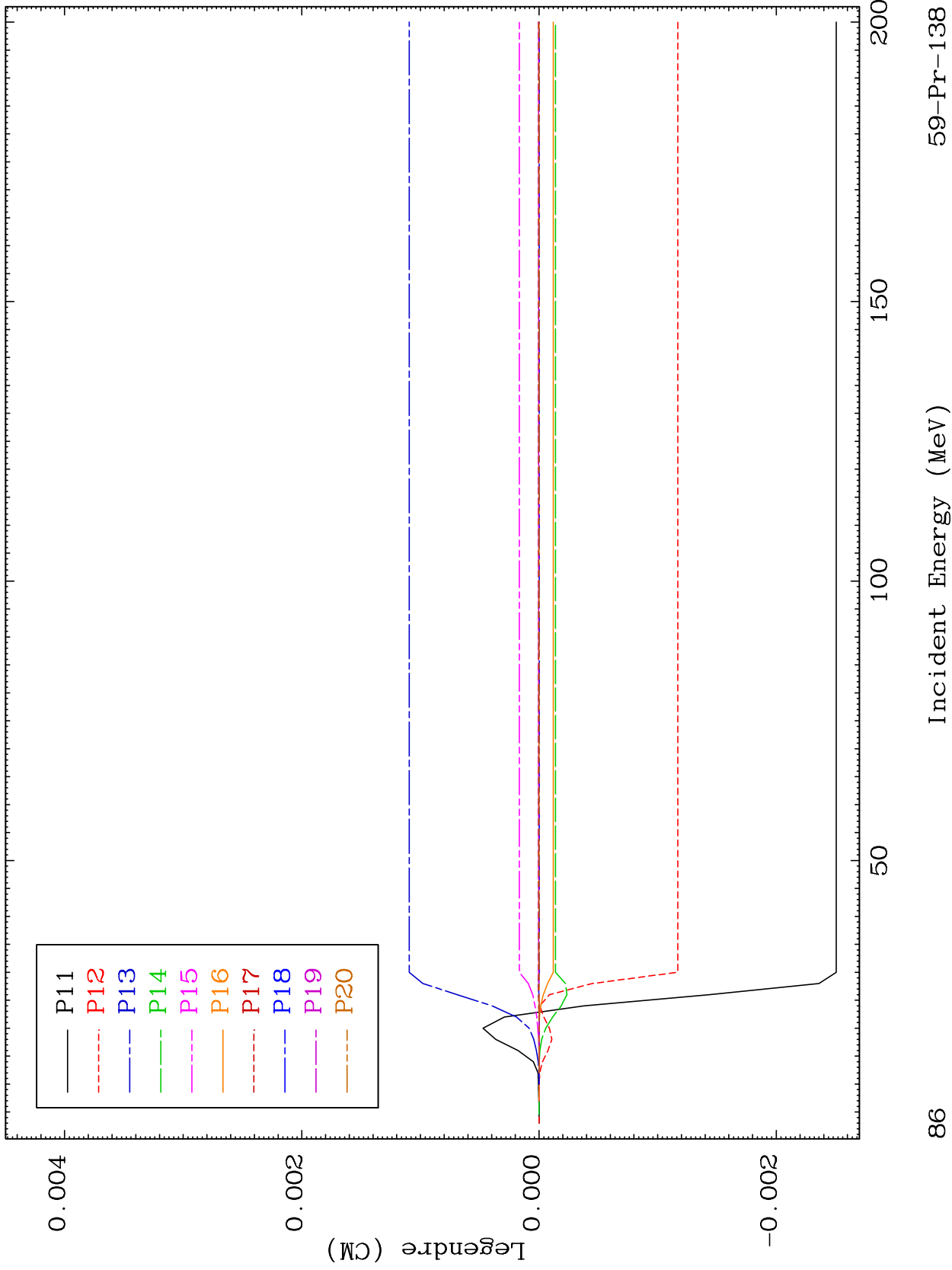
59-Pr-138

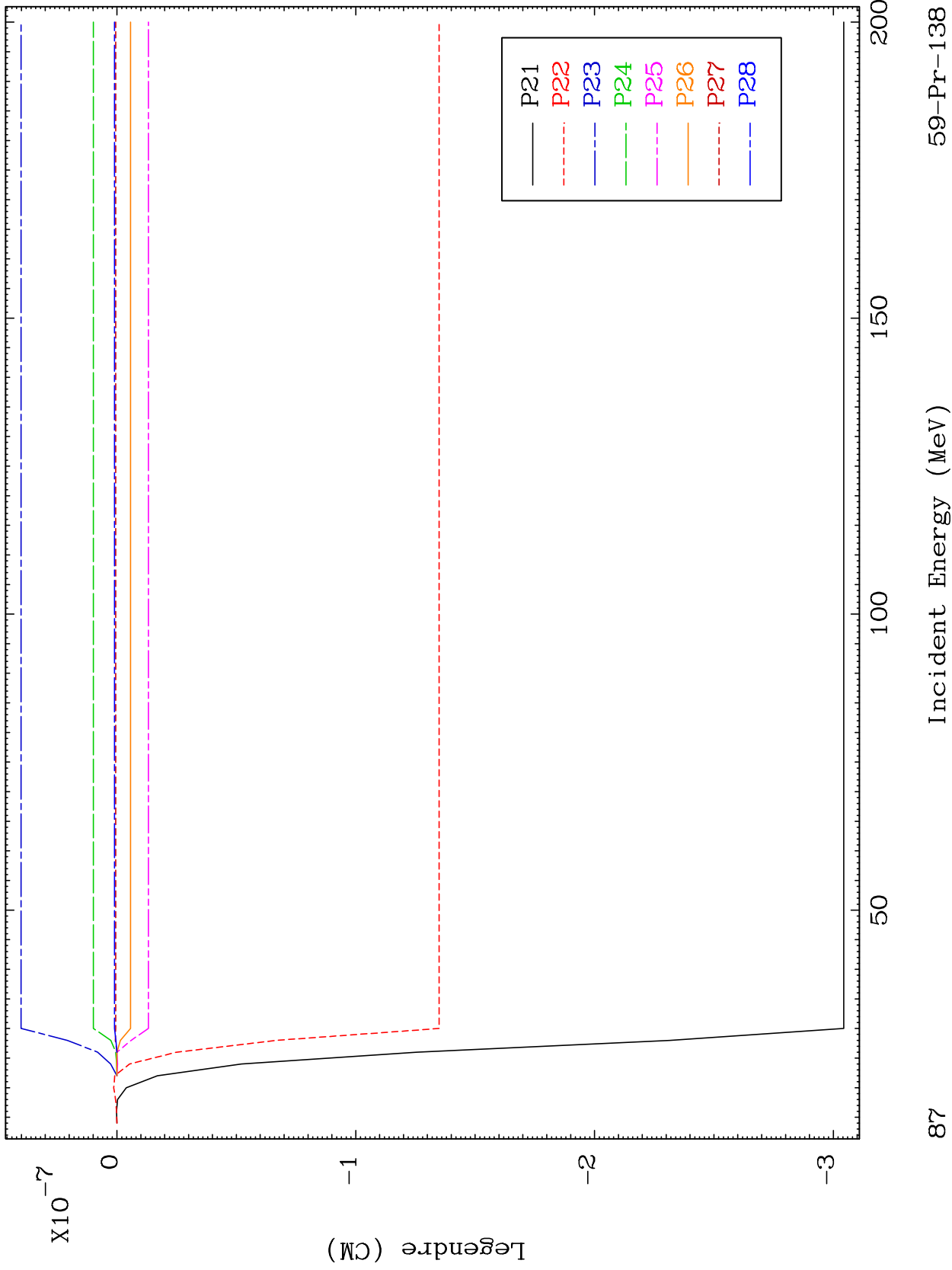


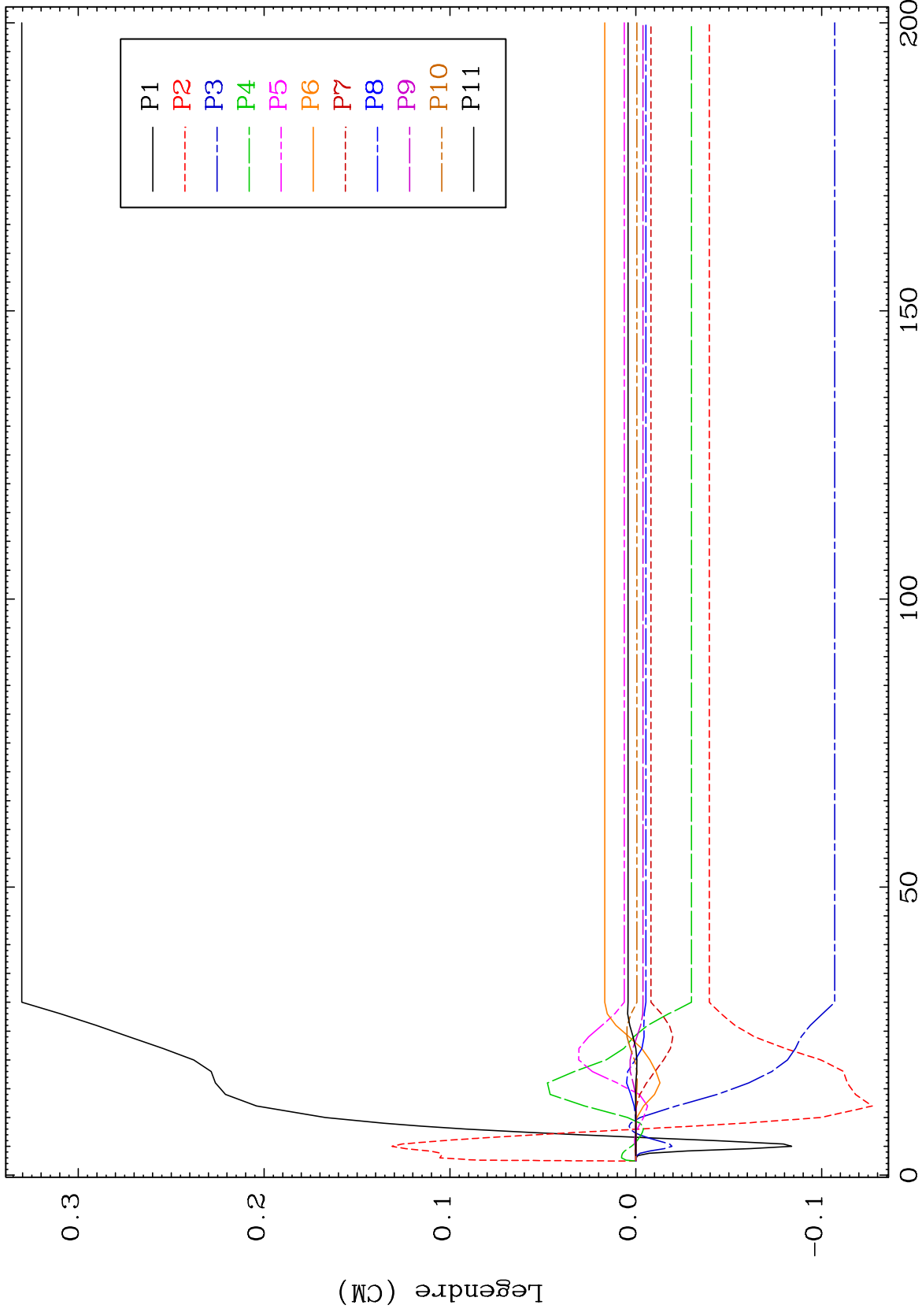
59-Pr-138

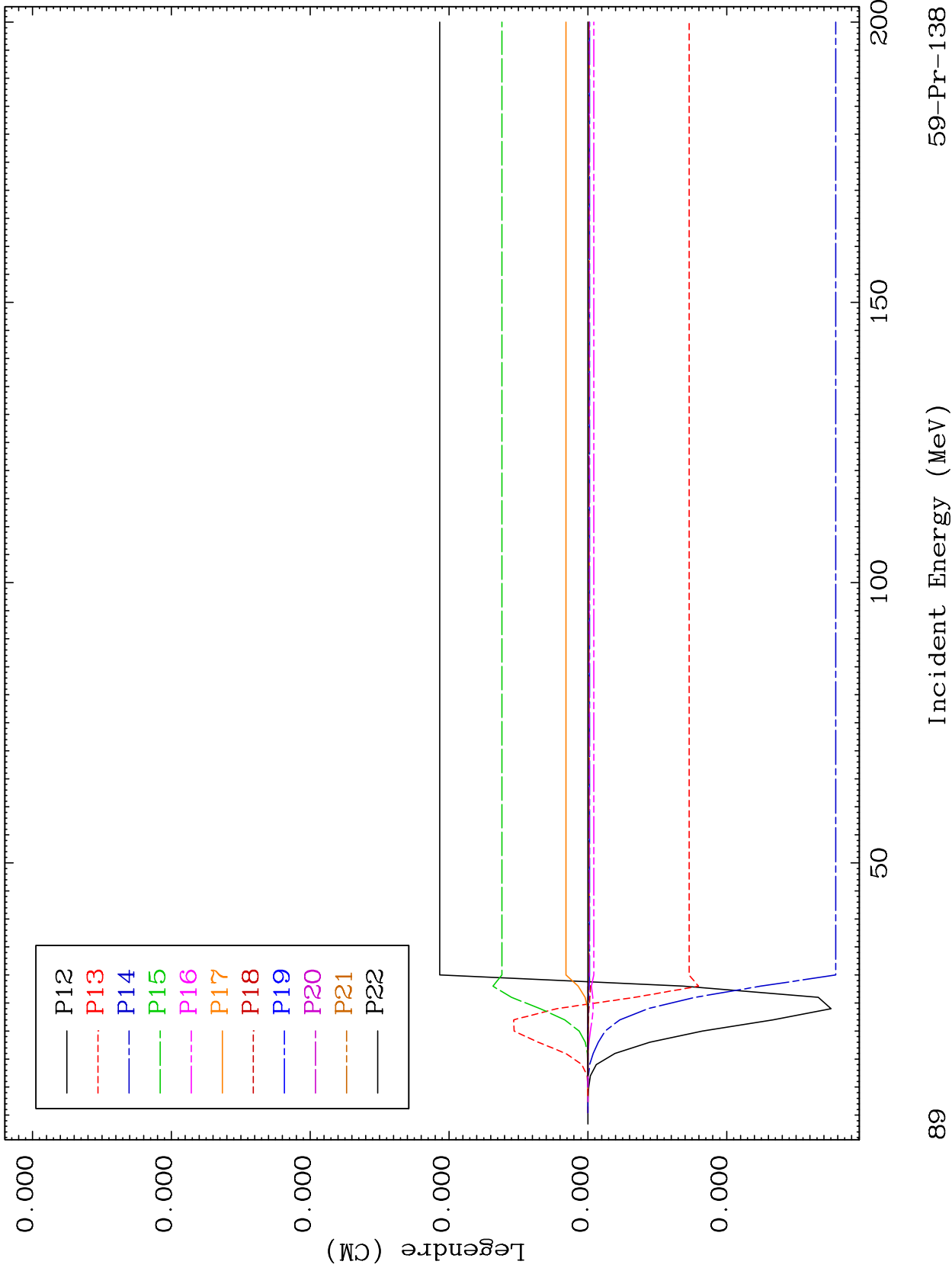
Incident Energy (MeV)

85





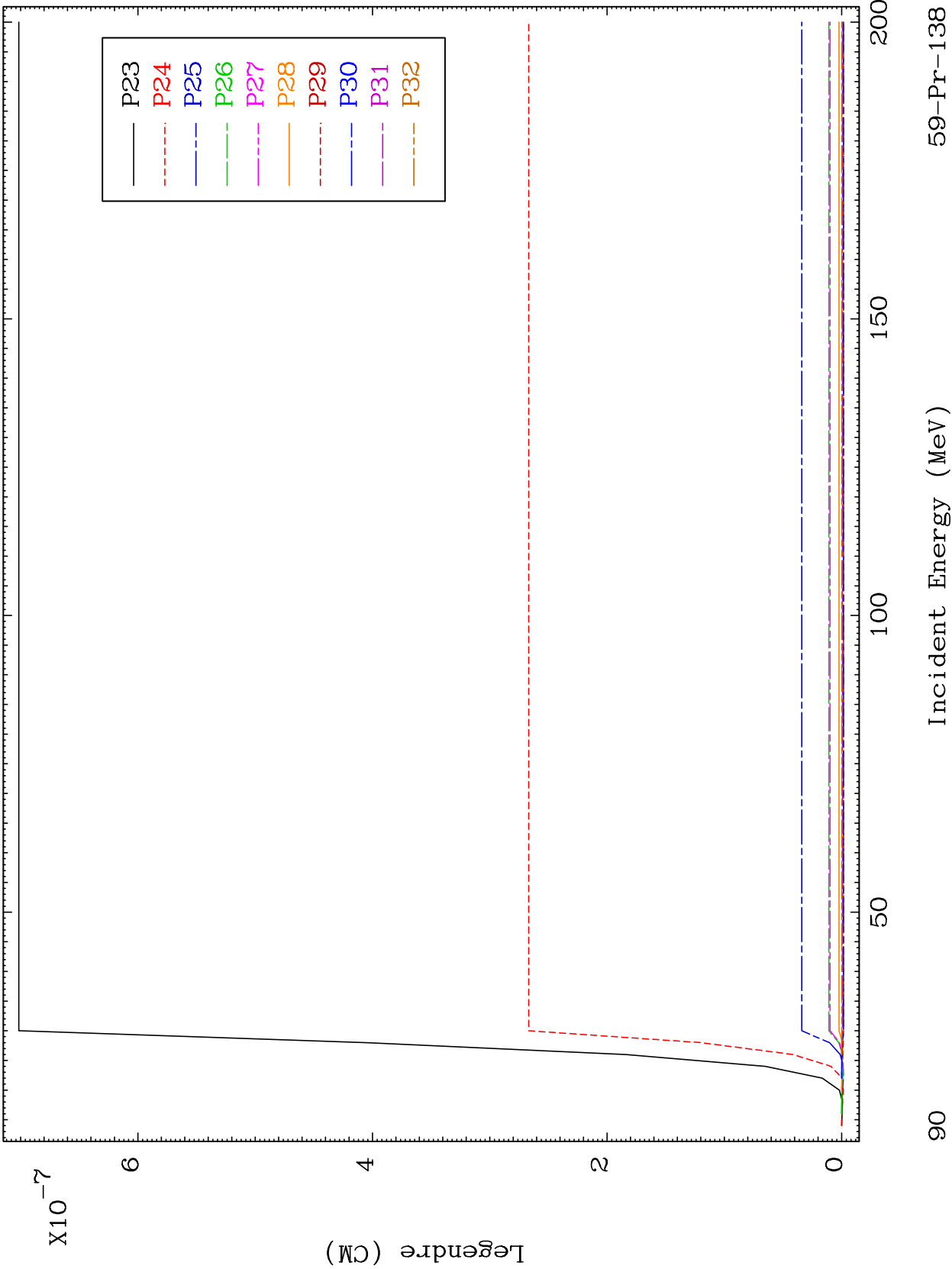




MAT 5916

MT= 72 (n,n') Level
Legendre Coefficients

59-Pr-138



59-Pr-138

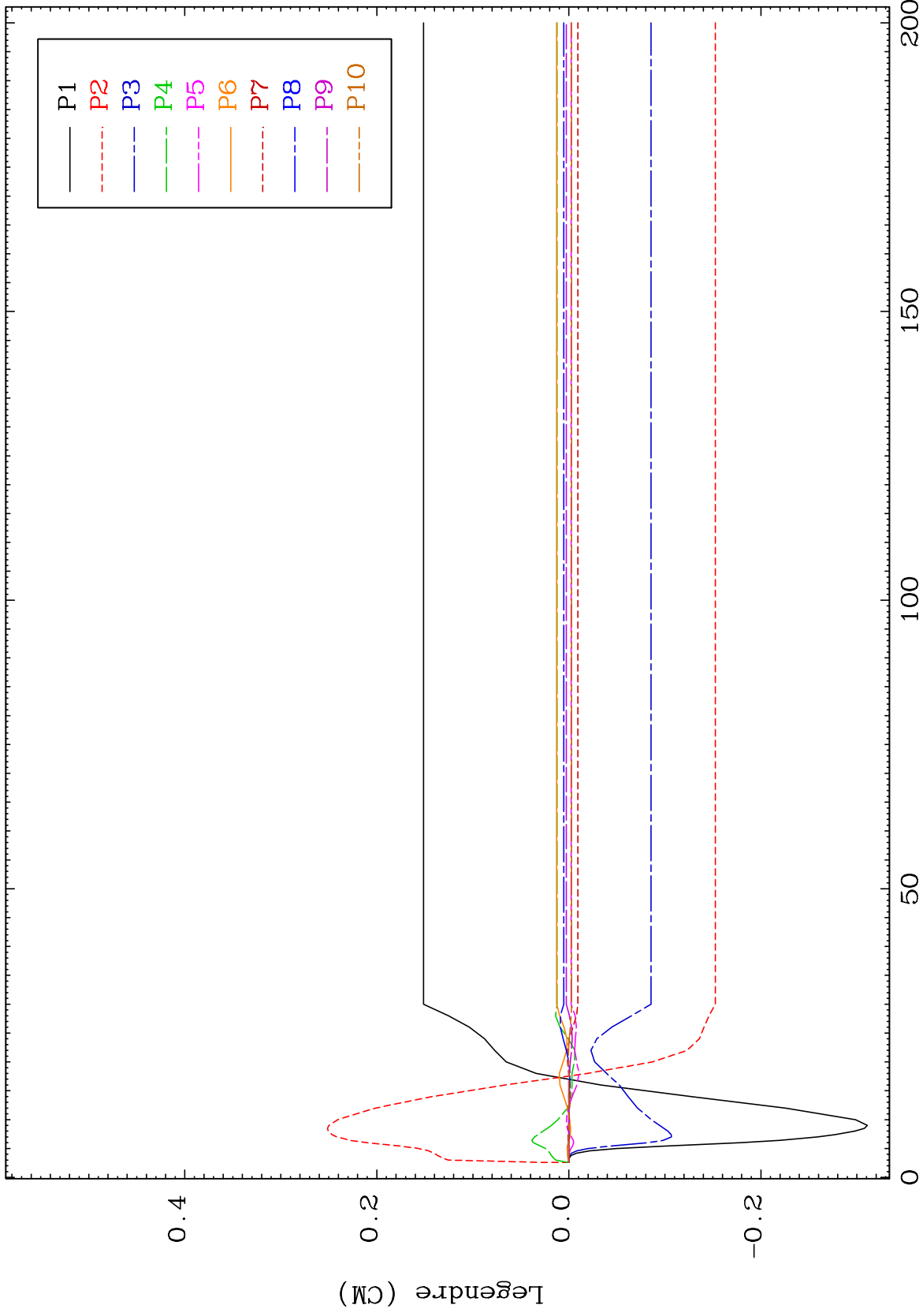
Incident Energy (MeV)

90

MAT 5916

MT= 73 (n,n') Level
Legendre Coefficients

59-Pr-138



91

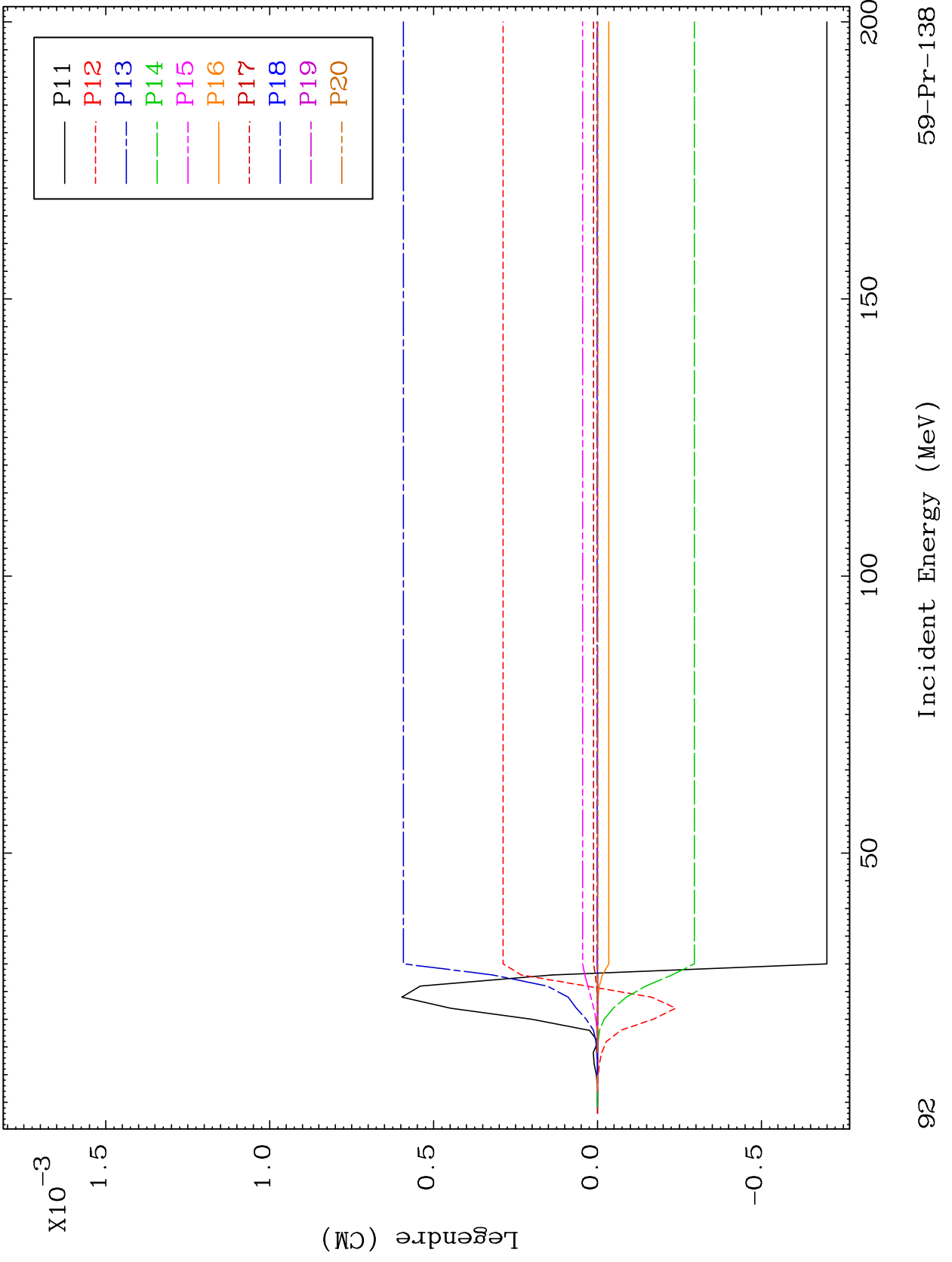
Incident Energy (MeV)

59-Pr-138

MAT 5916

MT= 73 (n,n') Level
Legendre Coefficients

59-Pr-138



92

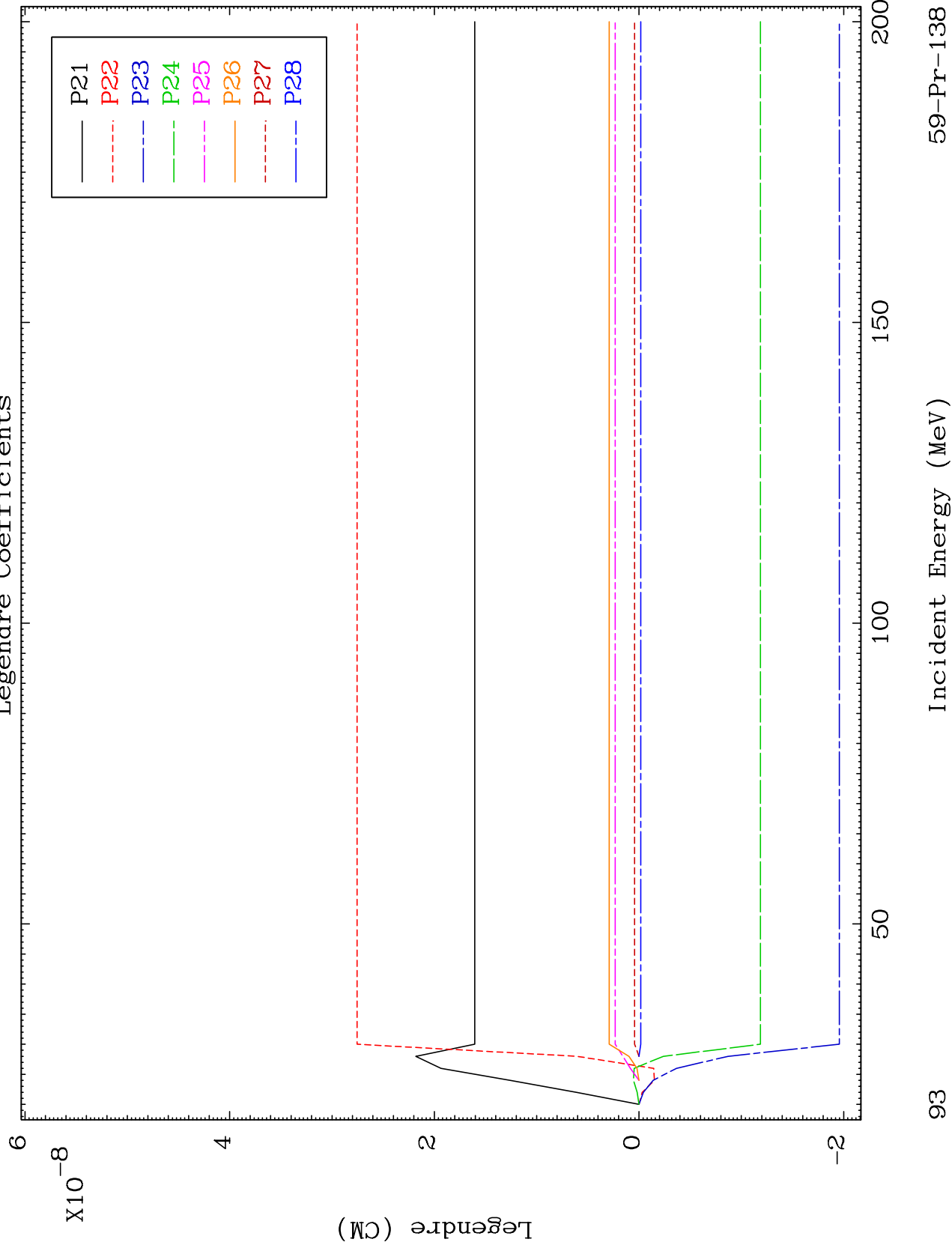
Incident Energy (MeV)

59-Pr-138

MAT 5916

MT= 73 (n,n') Level
Legendre Coefficients

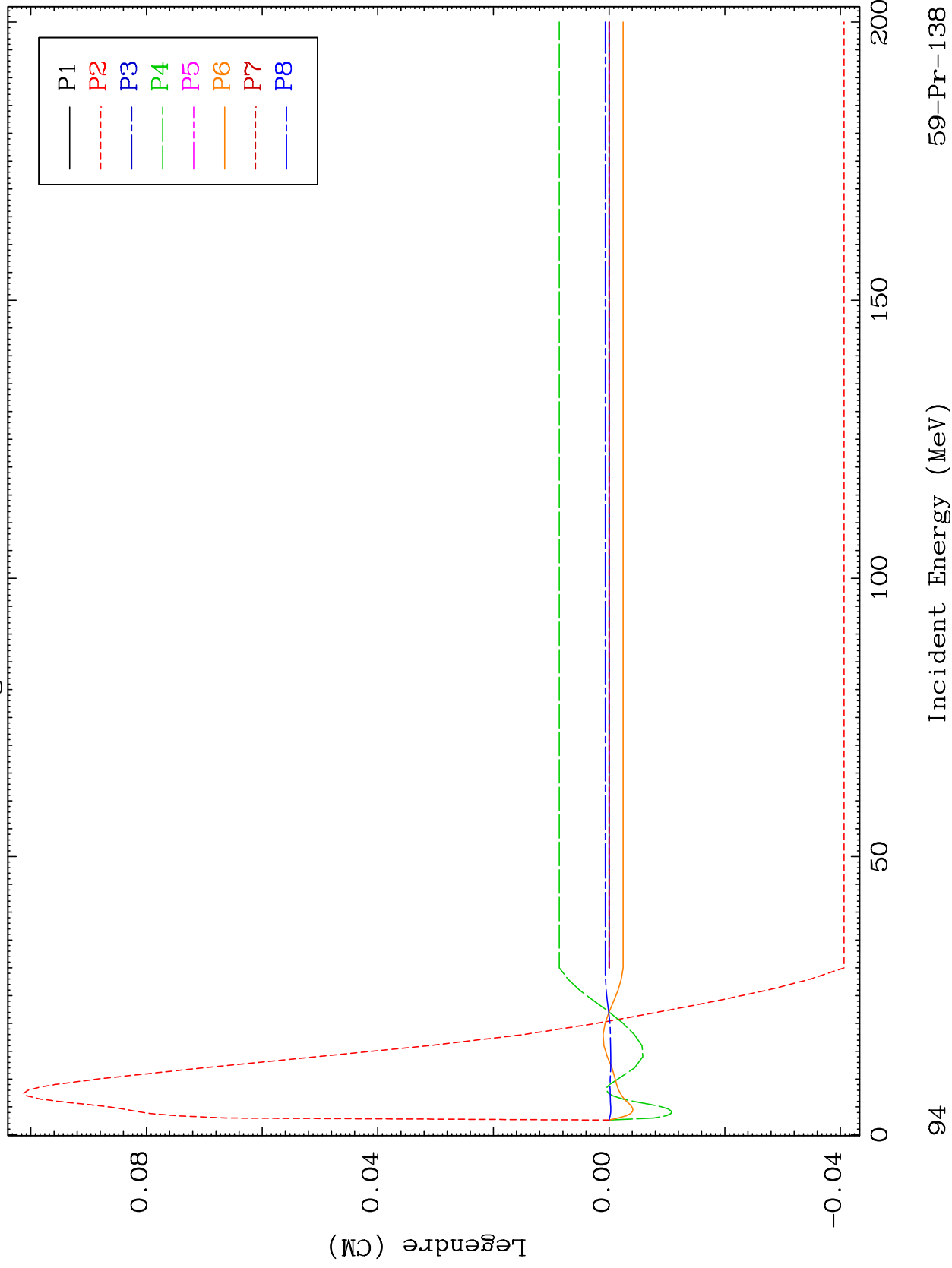
59-Pr-138



MAT 5916

MT= 74 (n,n') Level
Legendre Coefficients

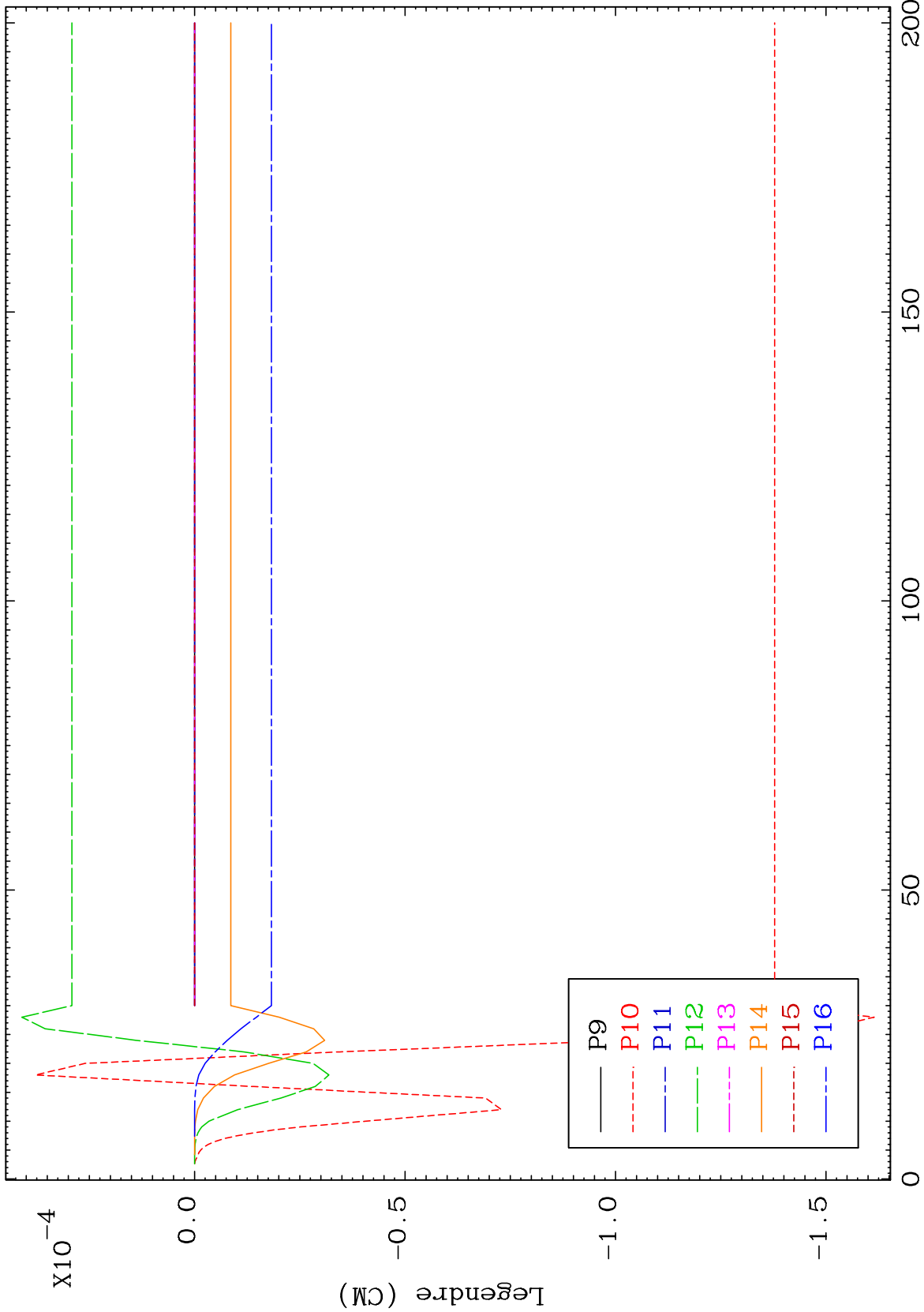
59-Pr-138



59-Pr-138

Incident Energy (MeV)

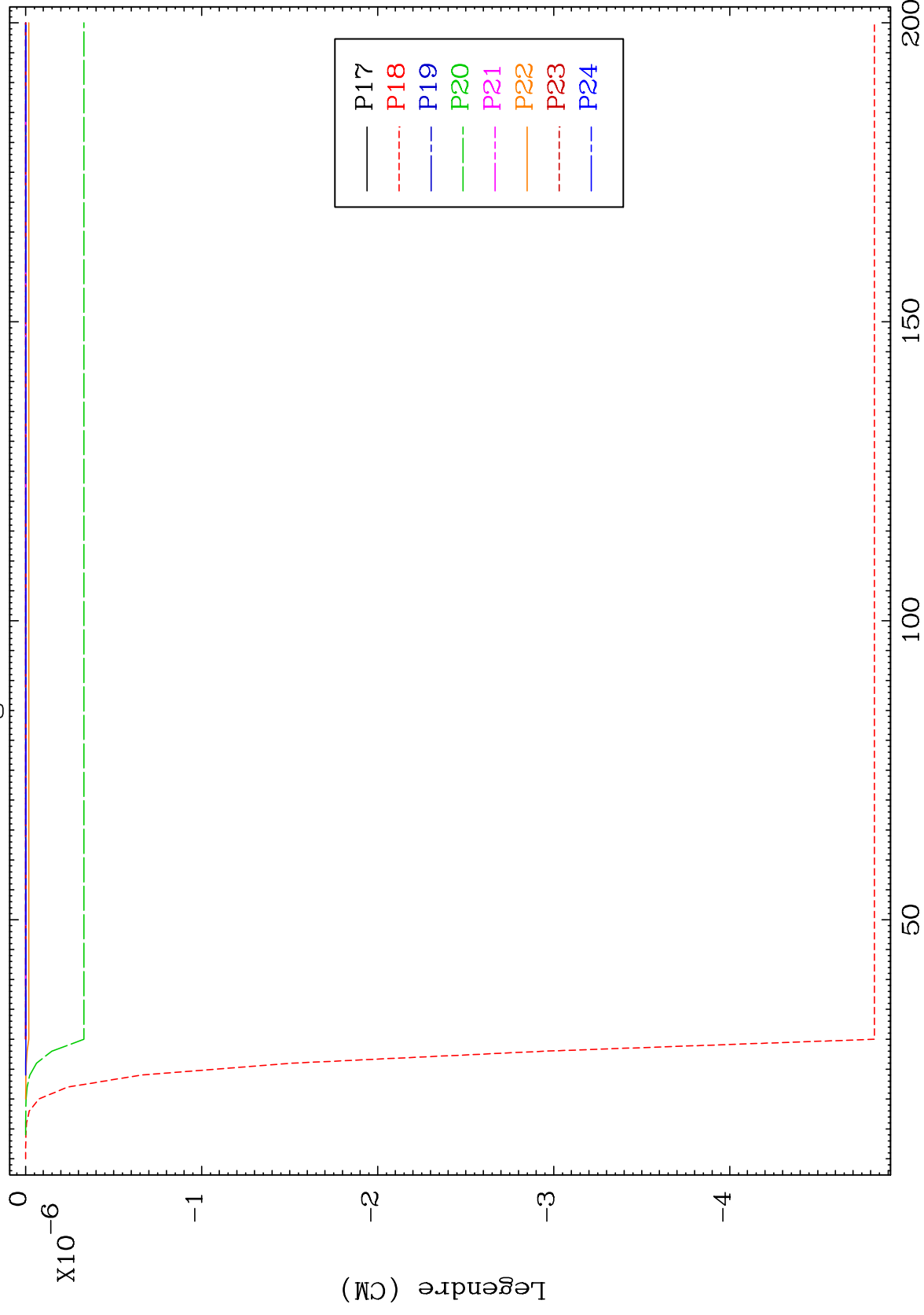
94



MAT 5916

MT= 74 (n,n') Level
Legendre Coefficients

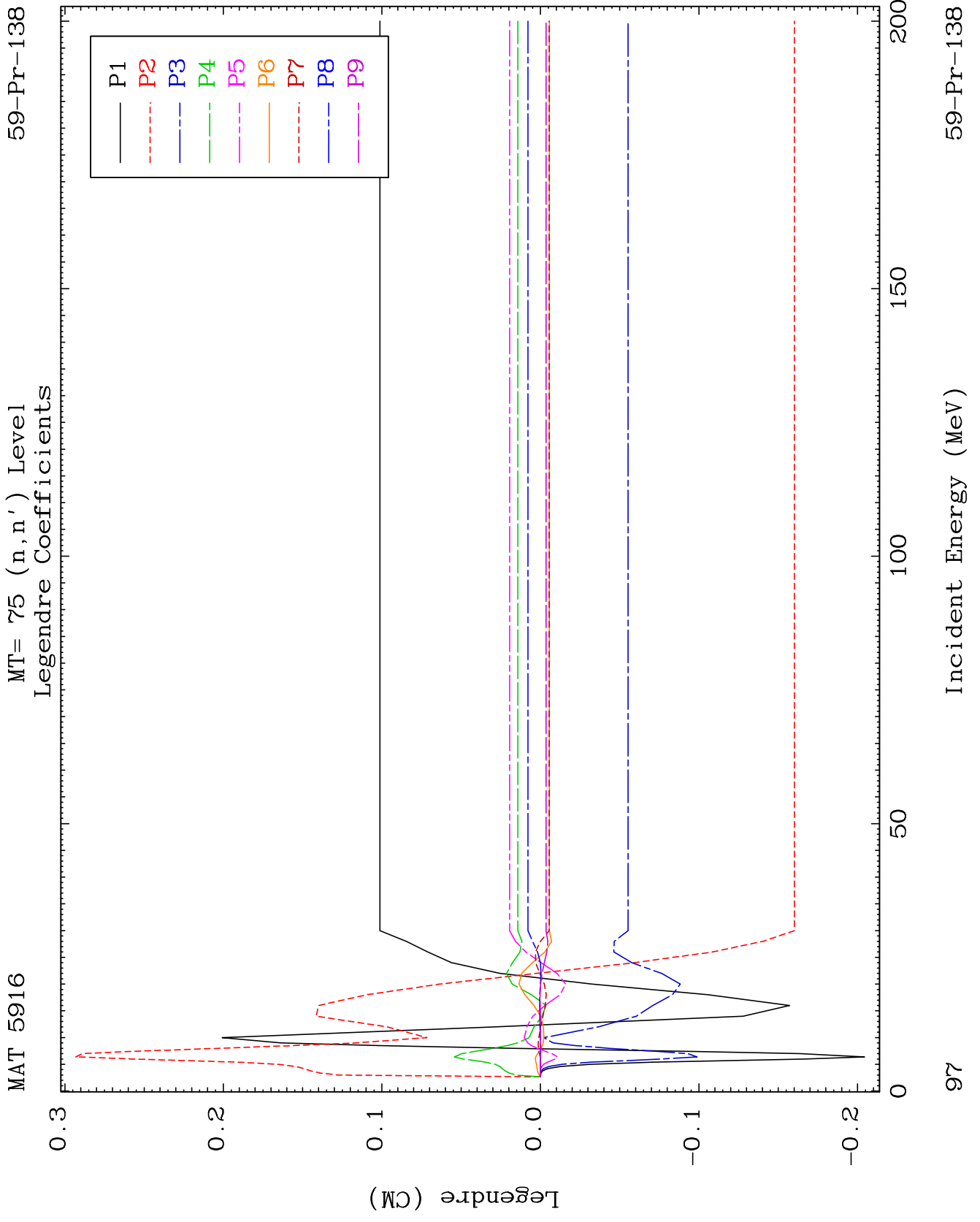
59-Pr-138



96

Incident Energy (MeV)

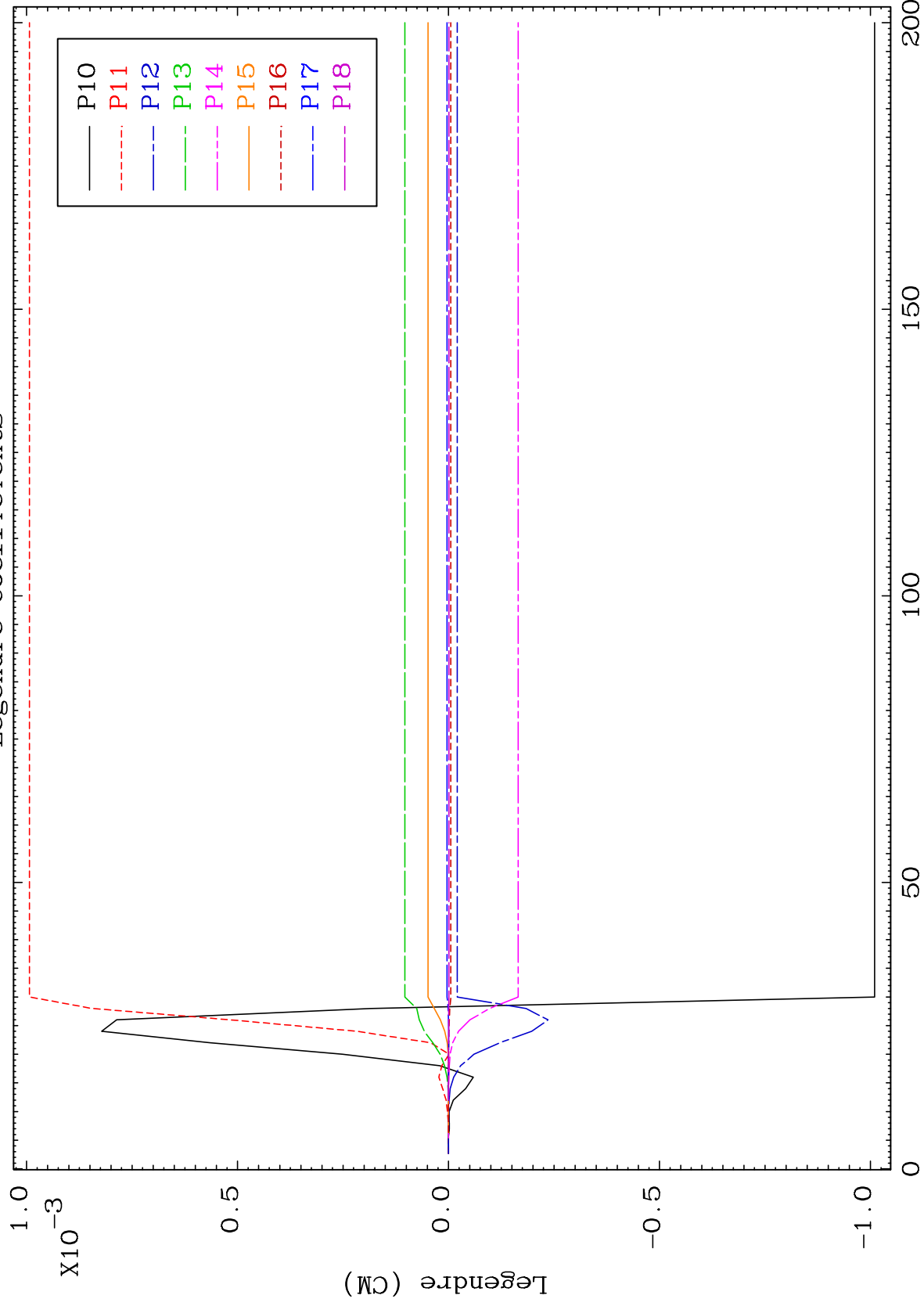
59-Pr-138



MAT 5916

MT= 75 (n,n') Level
Legendre Coefficients

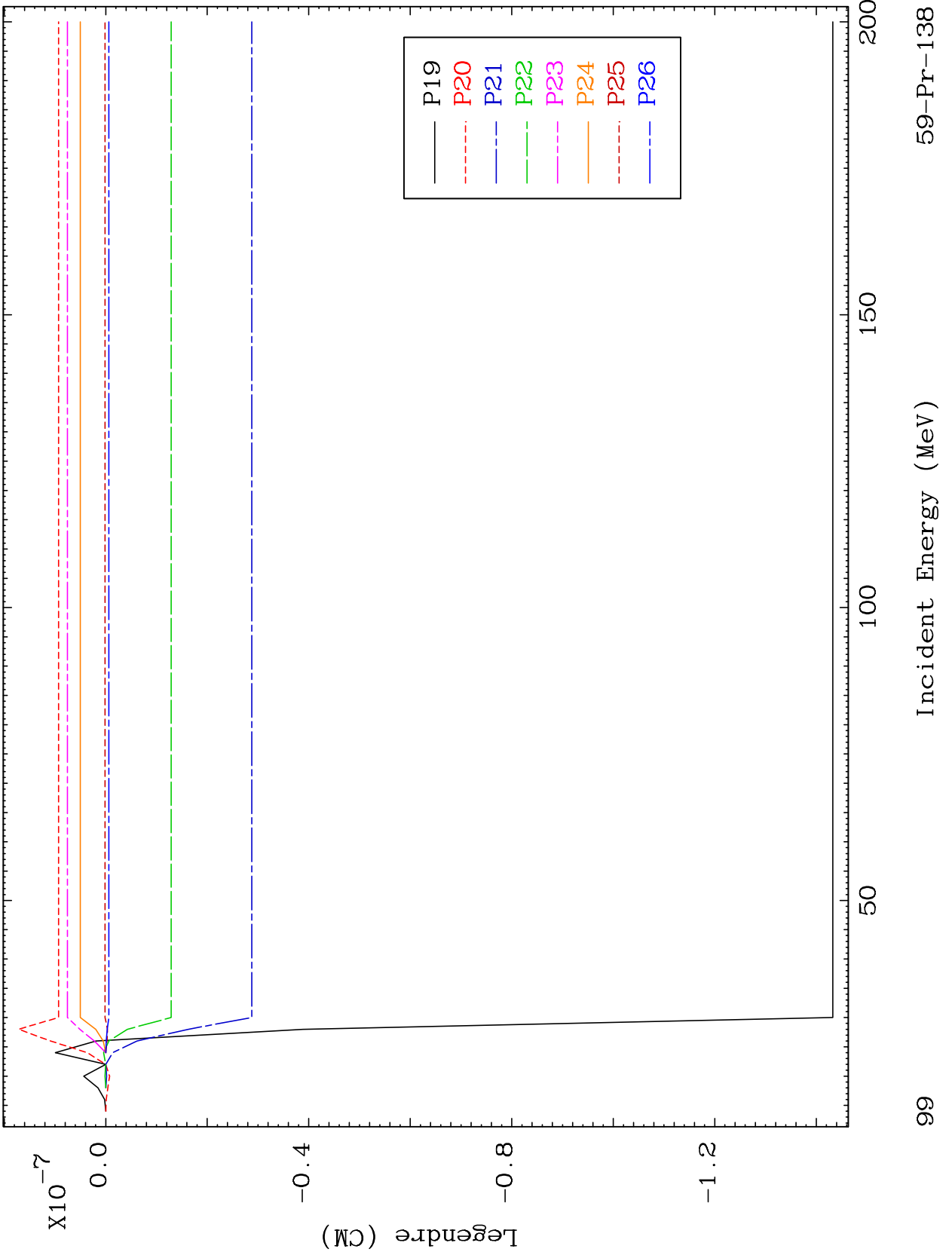
59-Pr-138



98

Incident Energy (MeV)

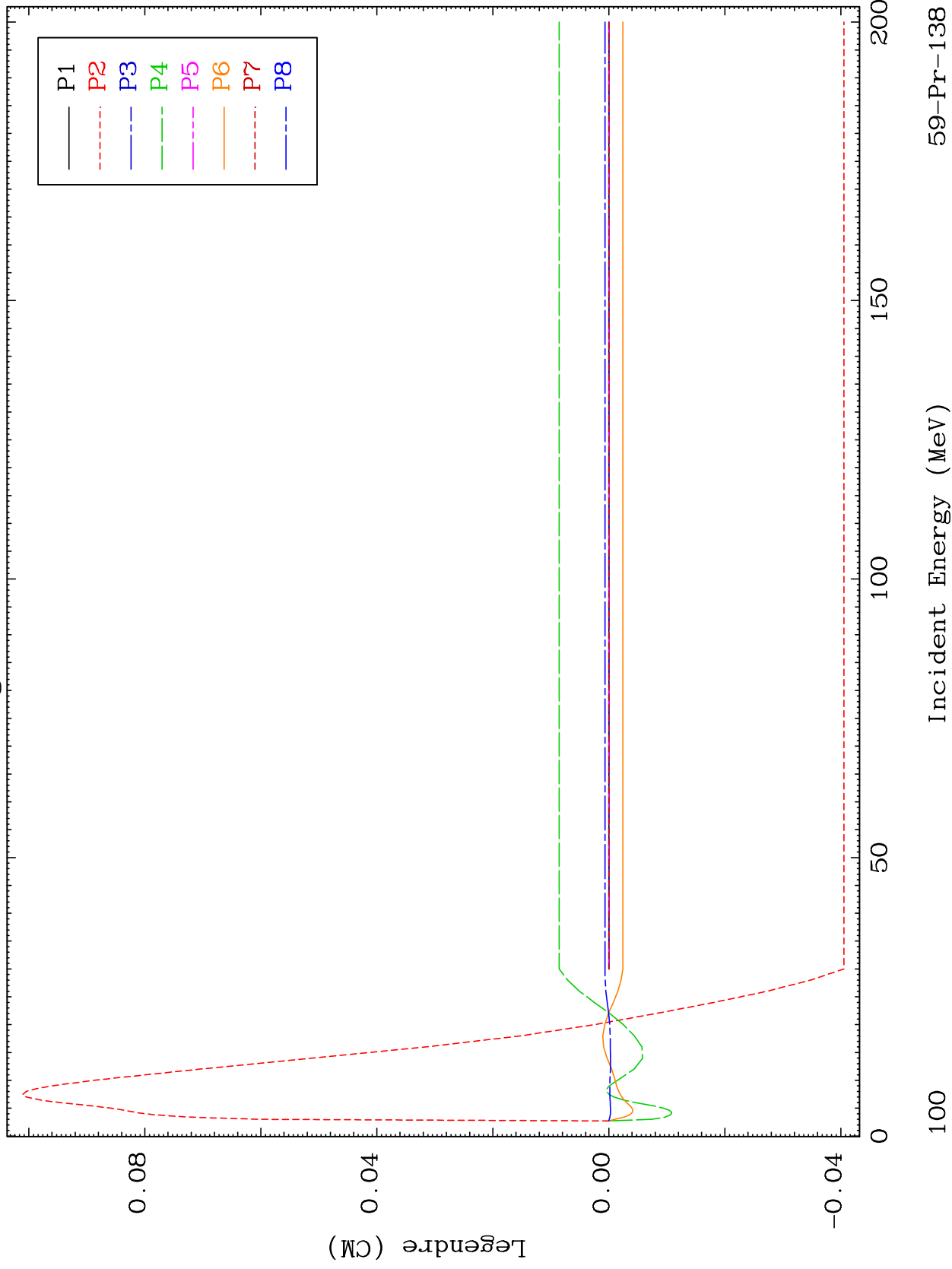
59-Pr-138



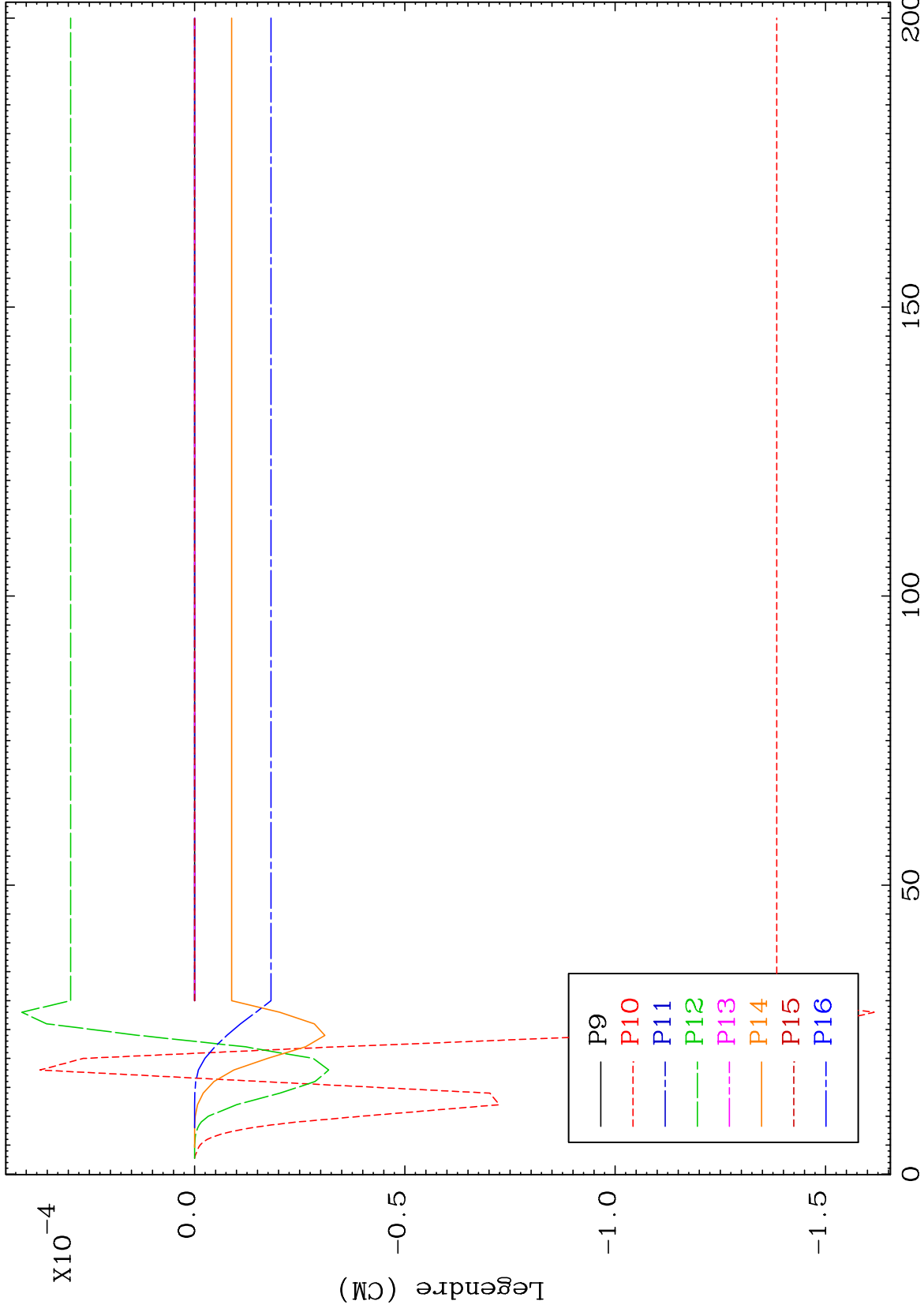
MAT 5916

MT= 76 (n,n') Level
Legendre Coefficients

59-Pr-138



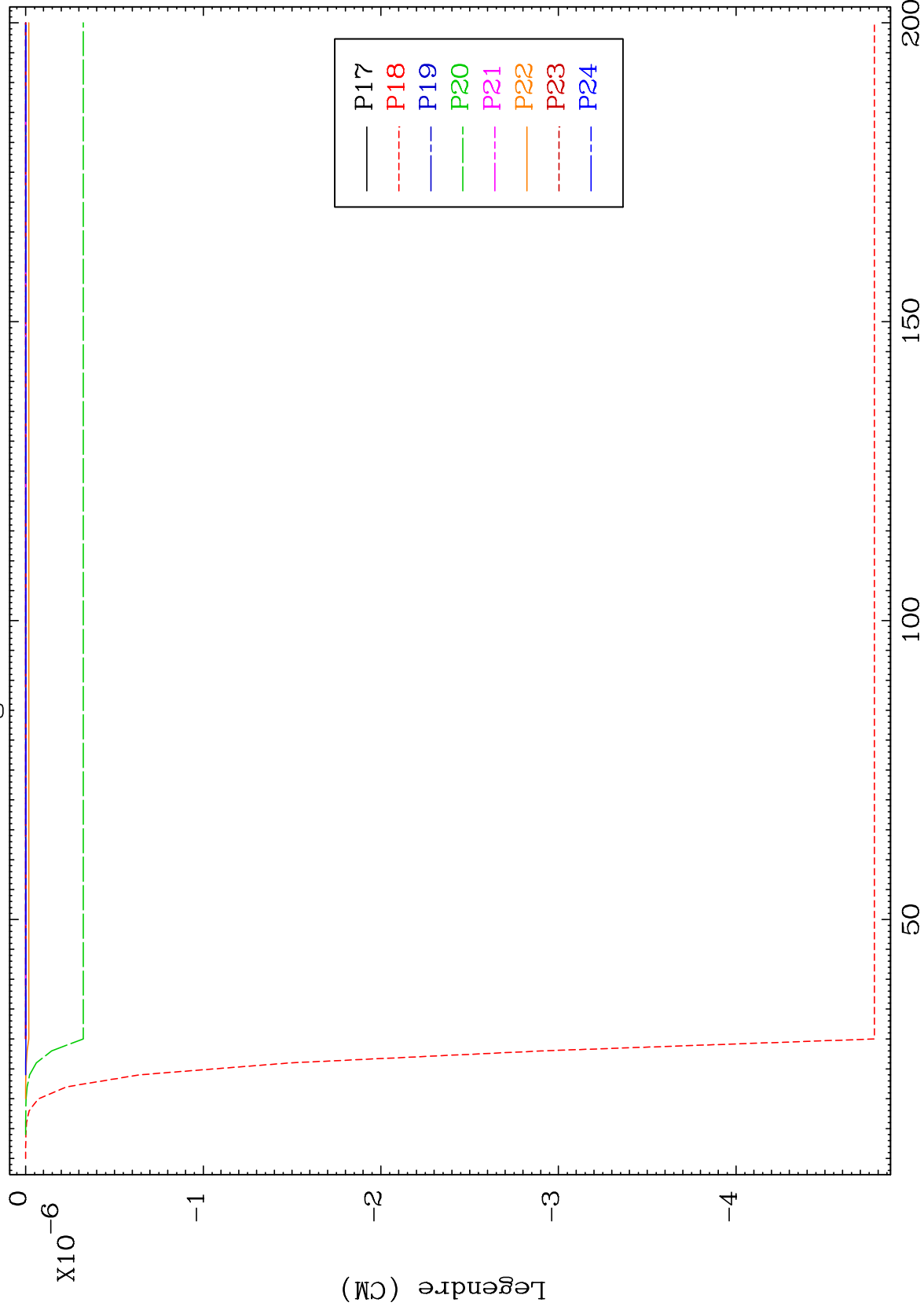
59-Pr-138



MAT 5916

MT= 76 (n,n') Level
Legendre Coefficients

59-Pr-138



102

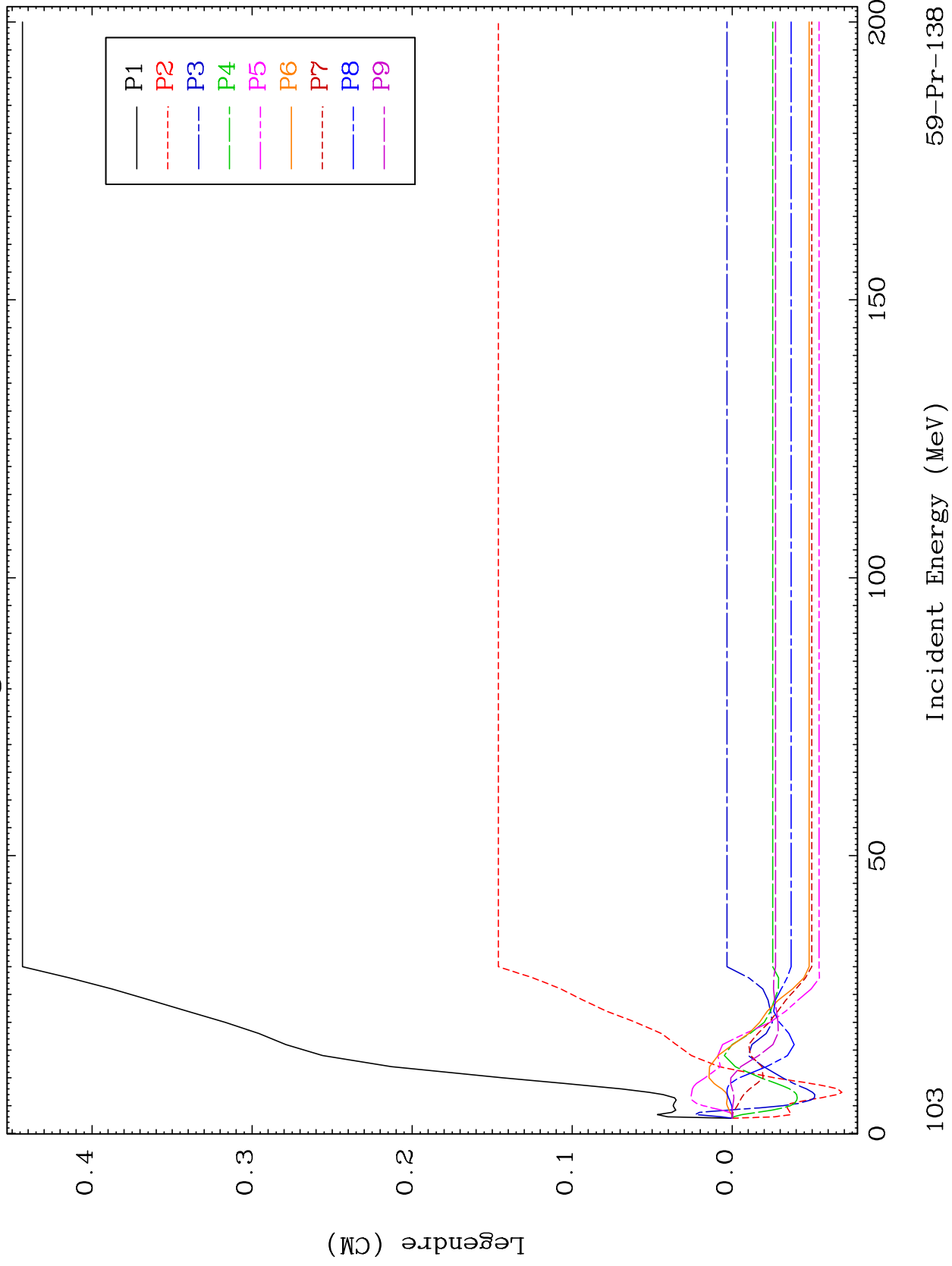
Incident Energy (MeV)

59-Pr-138

MAT 5916

MT= 77 (n,n') Level
Legendre Coefficients

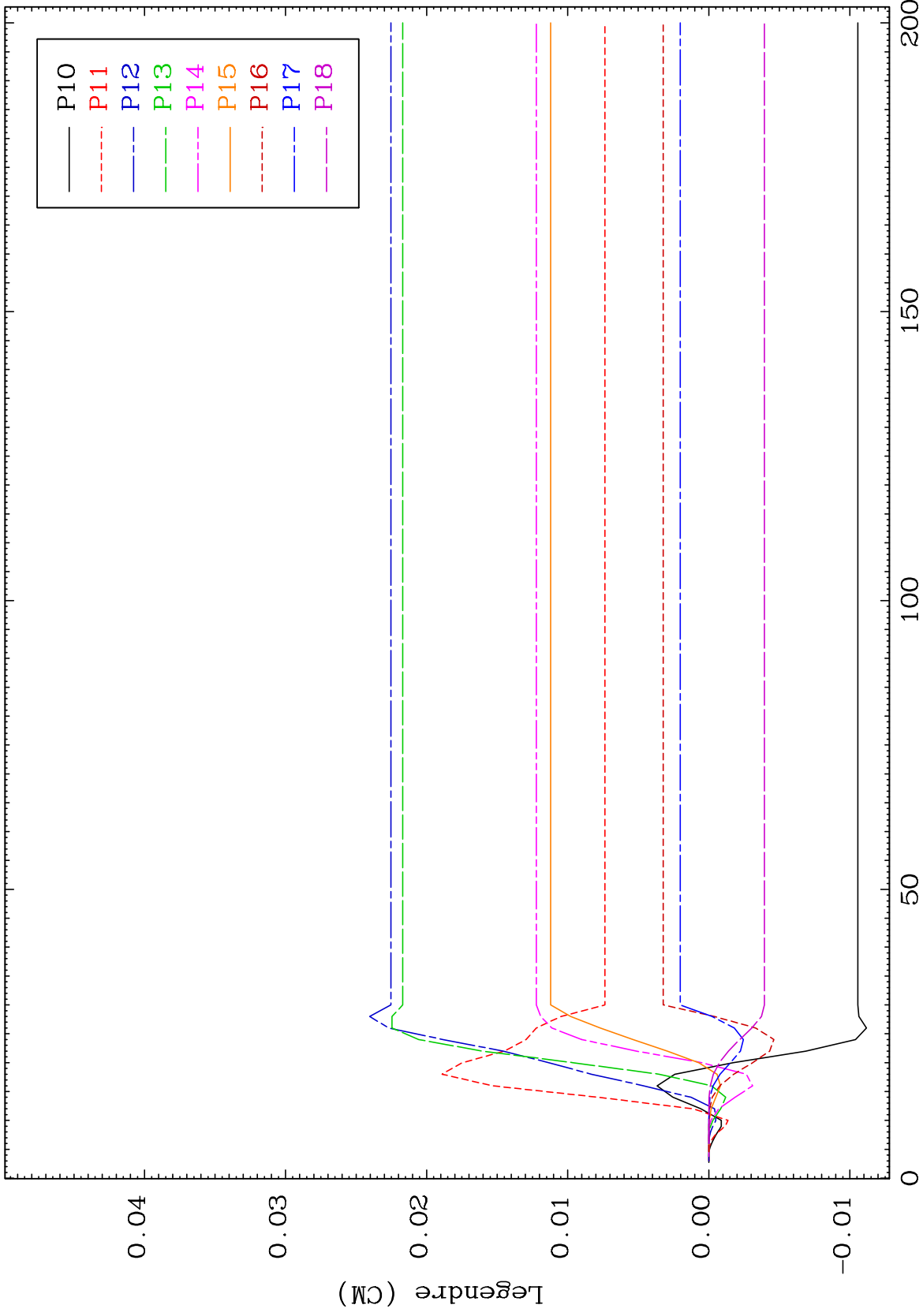
59-Pr-138



59-Pr-138

Incident Energy (MeV)

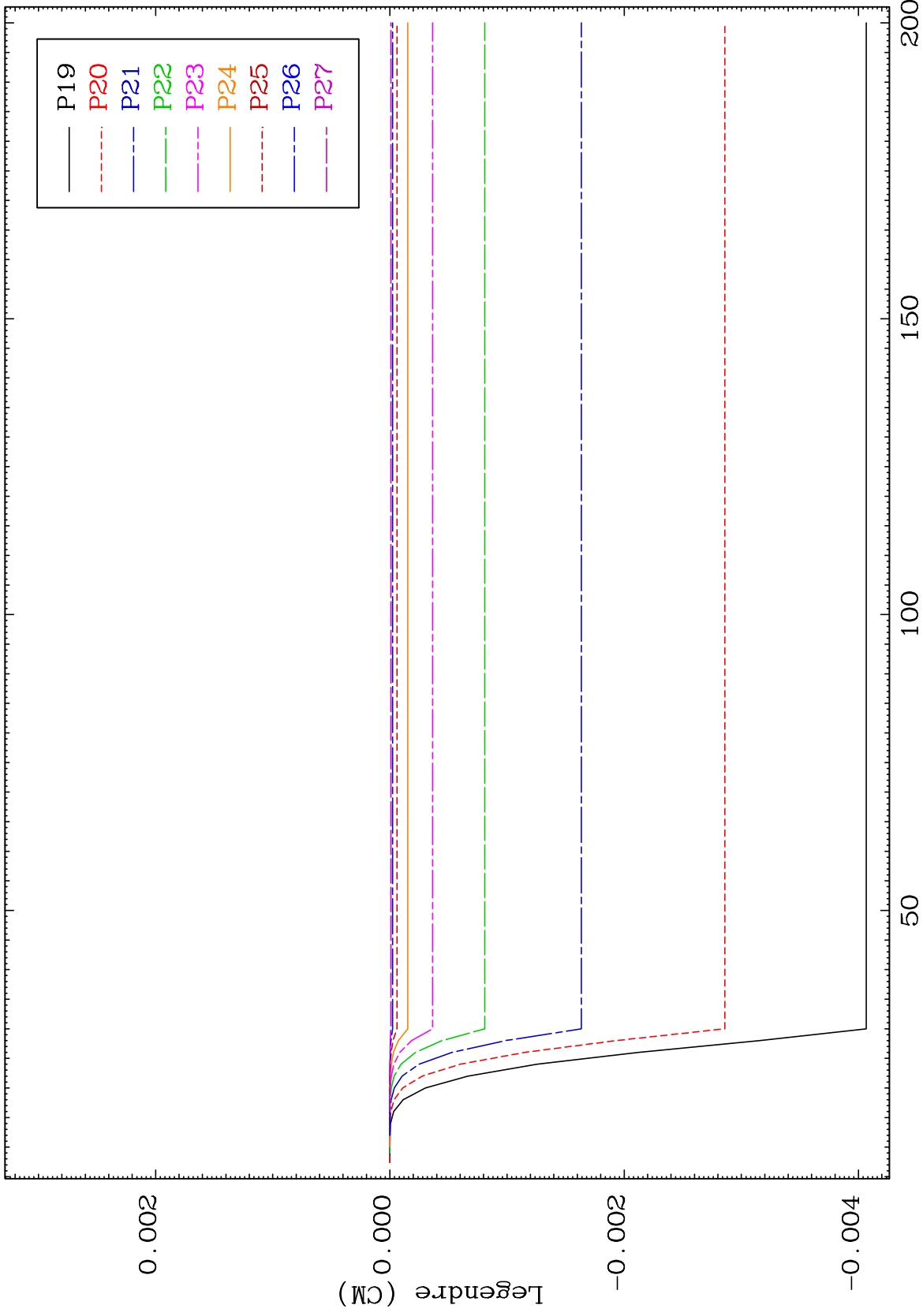
103



MAT 5916

MT= 77 (n,n') Level
Legendre Coefficients

59-Pr-138



105

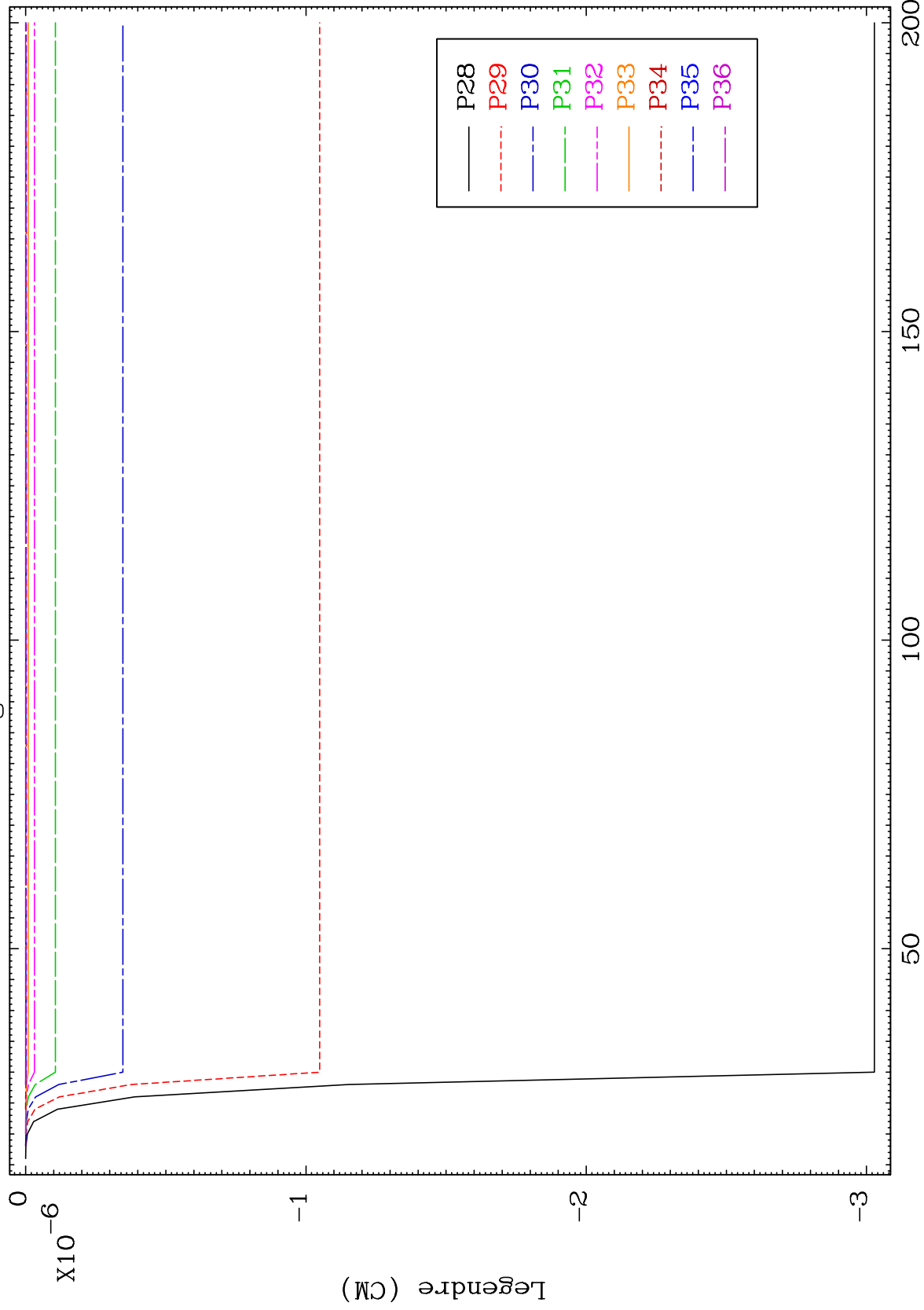
Incident Energy (MeV)

59-Pr-138

MAT 5916

MT= 77 (n,n') Level
Legendre Coefficients

59-Pr-138



106

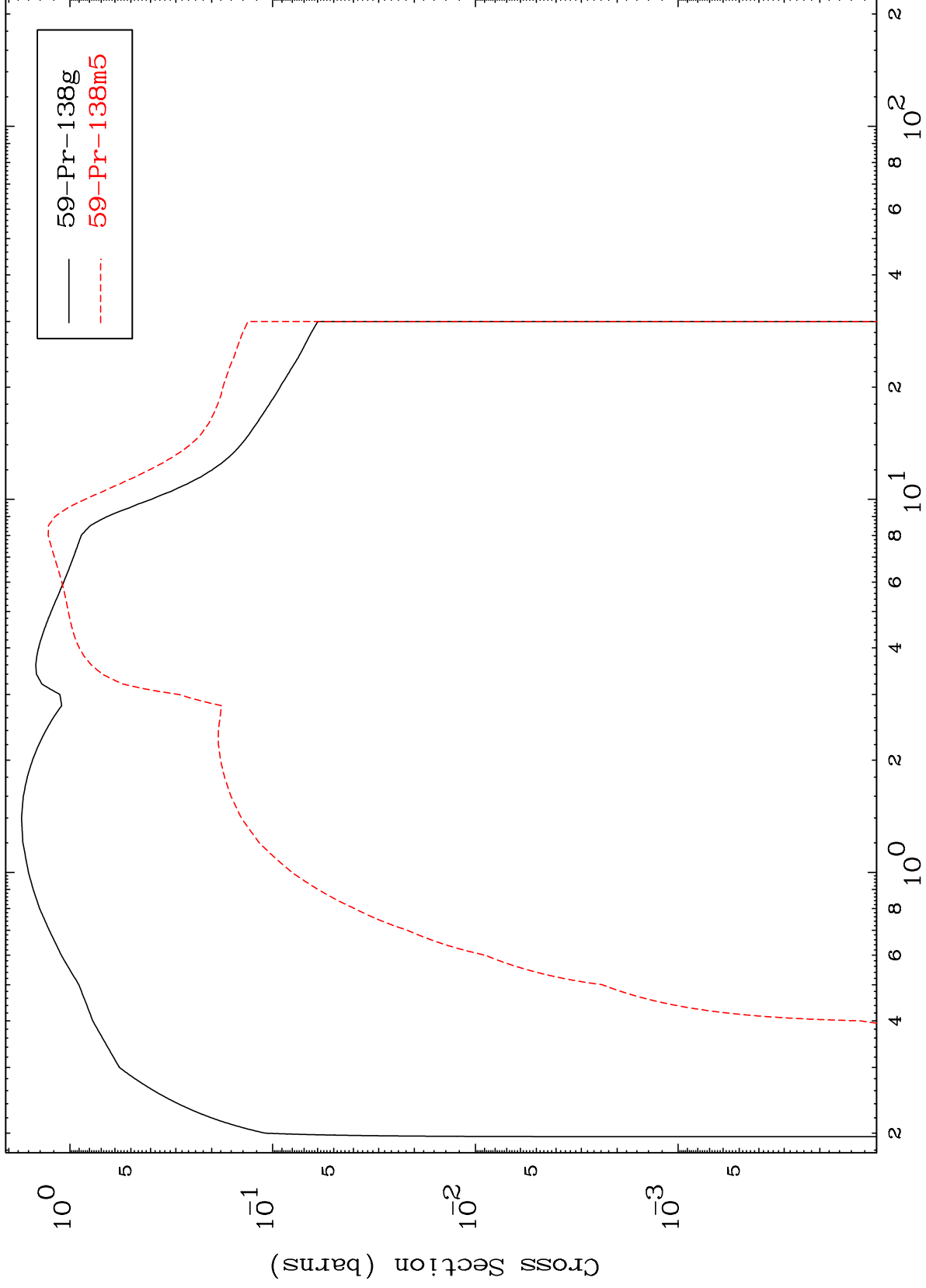
Incident Energy (MeV)

59-Pr-138

MAT 5916

59-Pr-138

Inelastic
Radionuclide Production Cross Section



107

Incident Energy (MeV)

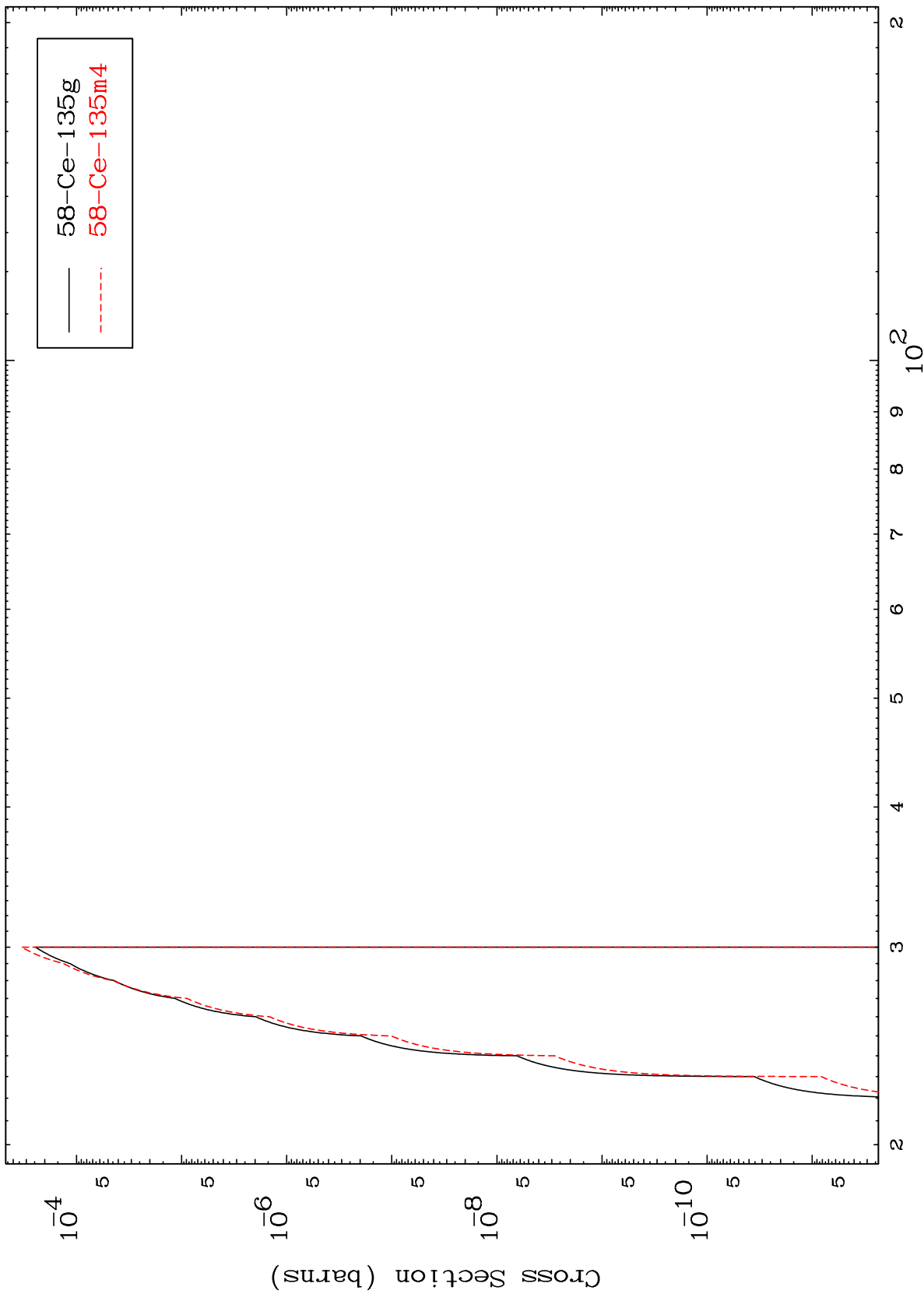
59-Pr-138

MAT 5916

(n,2n) d

59-Pr-138

Radionuclide Production Cross Section



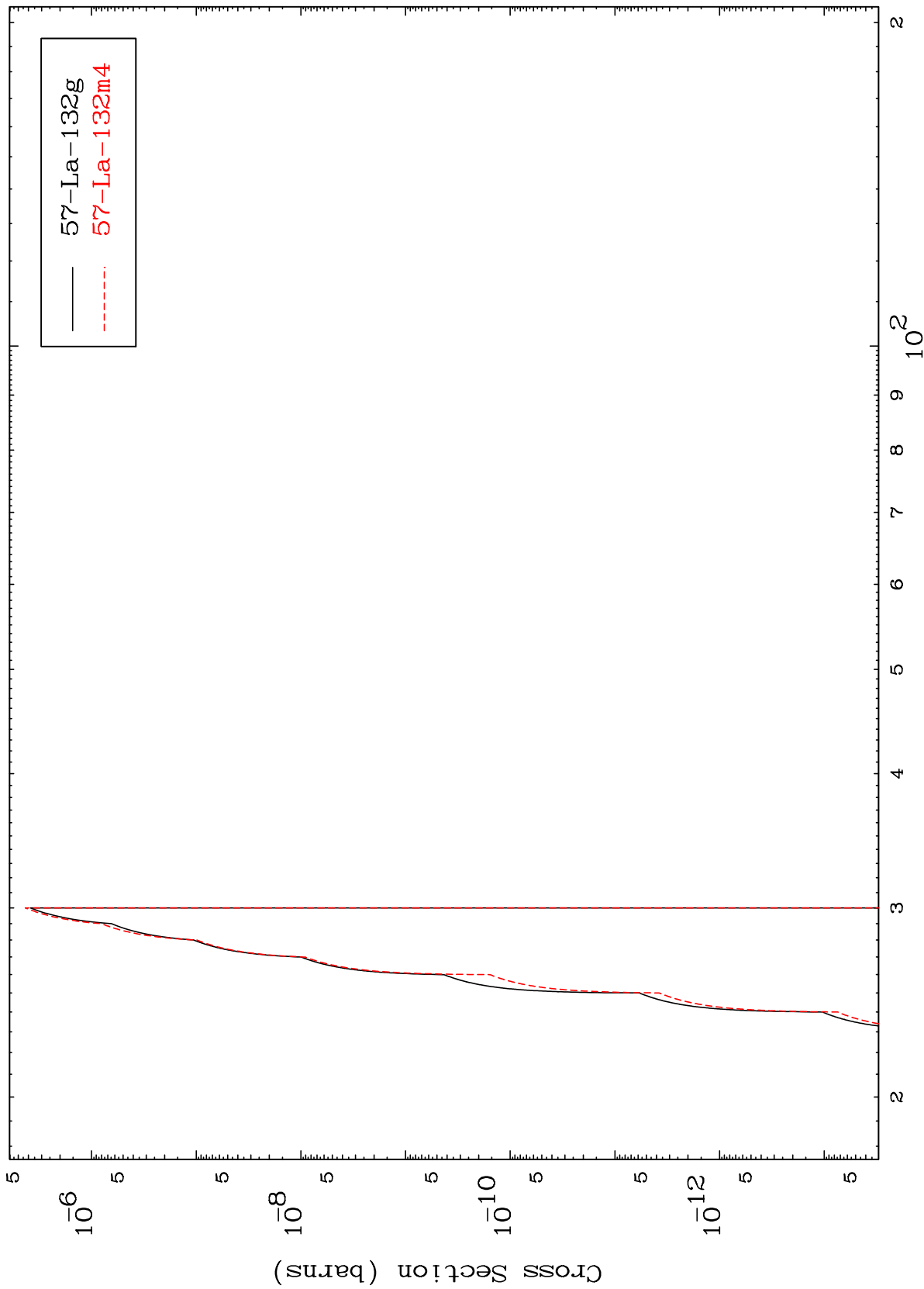
58-Ce-135g
58-Ce-135m4

108

Incident Energy (MeV)

59-Pr-138

Radionuclide Production Cross Section



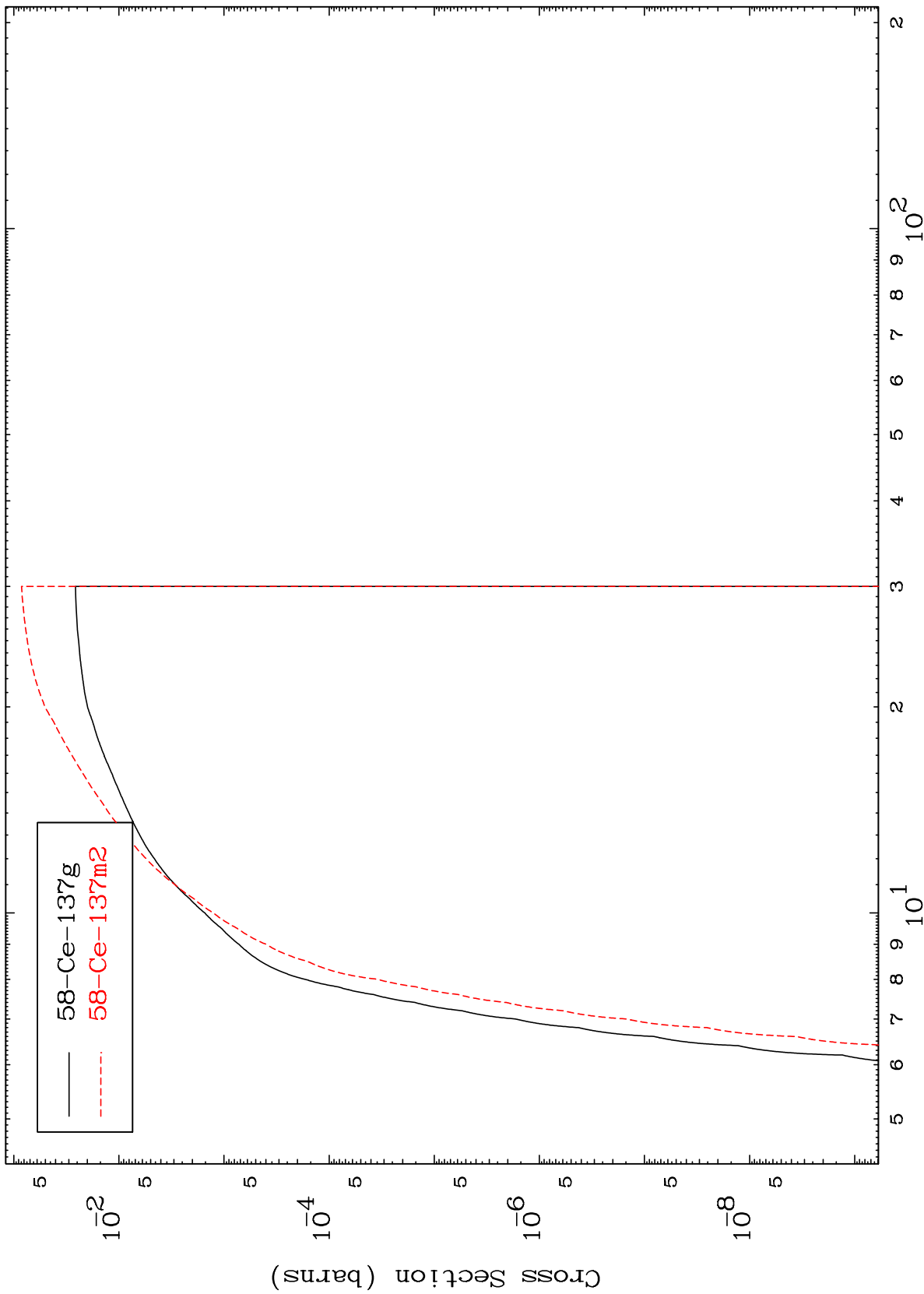
57-La-132g
57-La-132m4

MAT 5916

(n,n') p

59-Pr-138

Radionuclide Production Cross Section

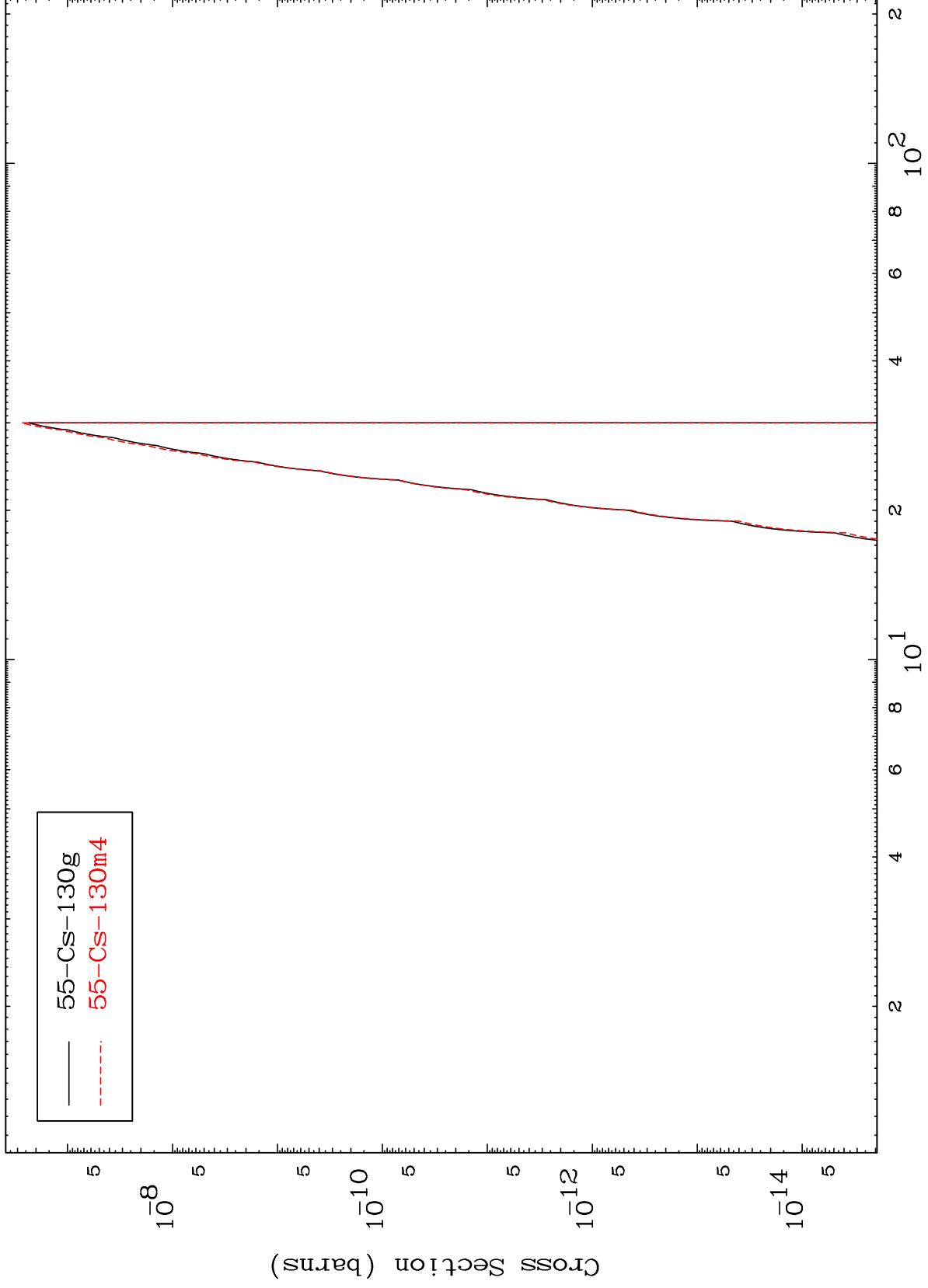


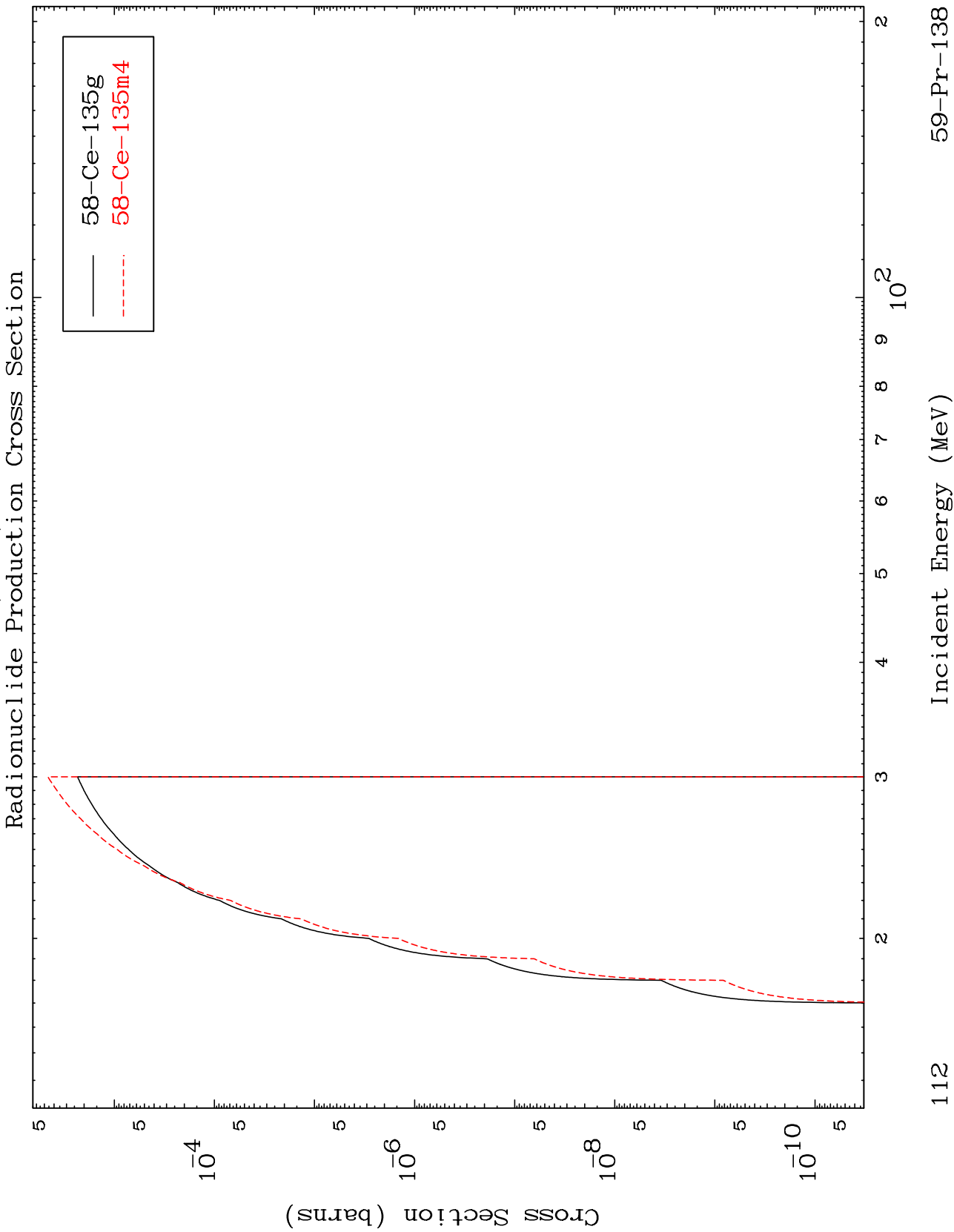
110

Incident Energy (MeV)

59-Pr-138

Radionuclide Production Cross Section



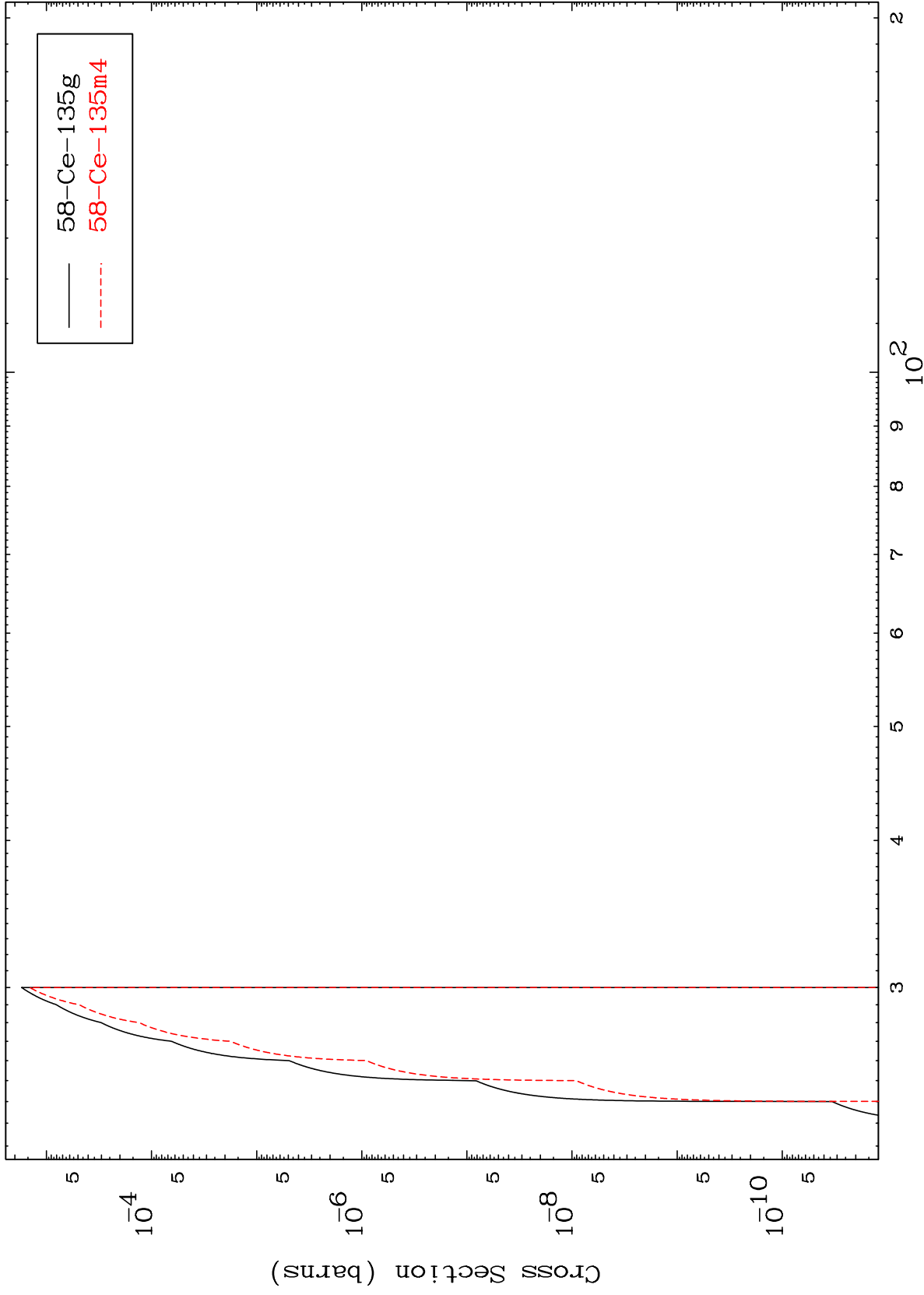


MAT 5916

(n,3n) p

59-Pr-138

Radionuclide Production Cross Section

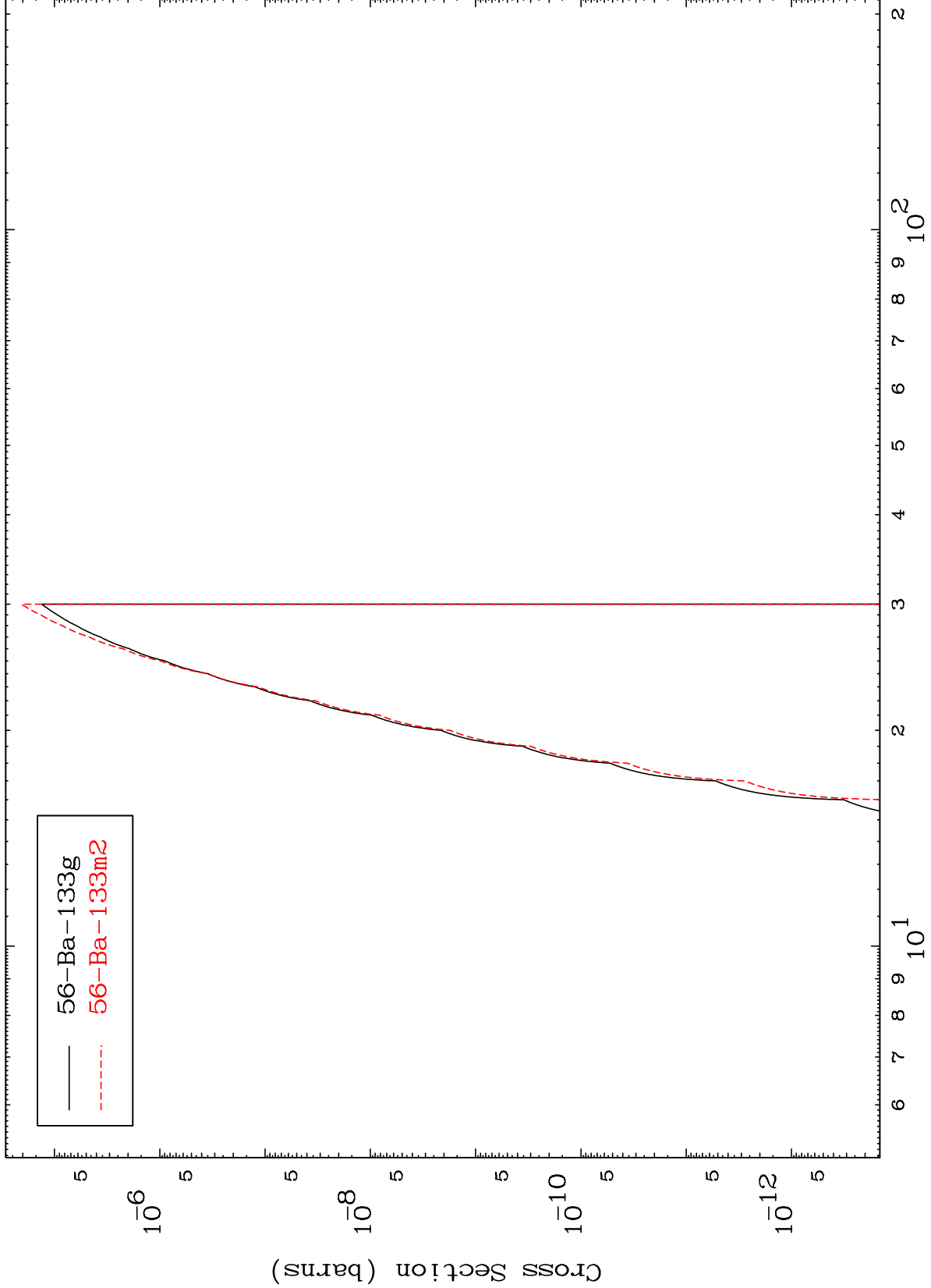


113

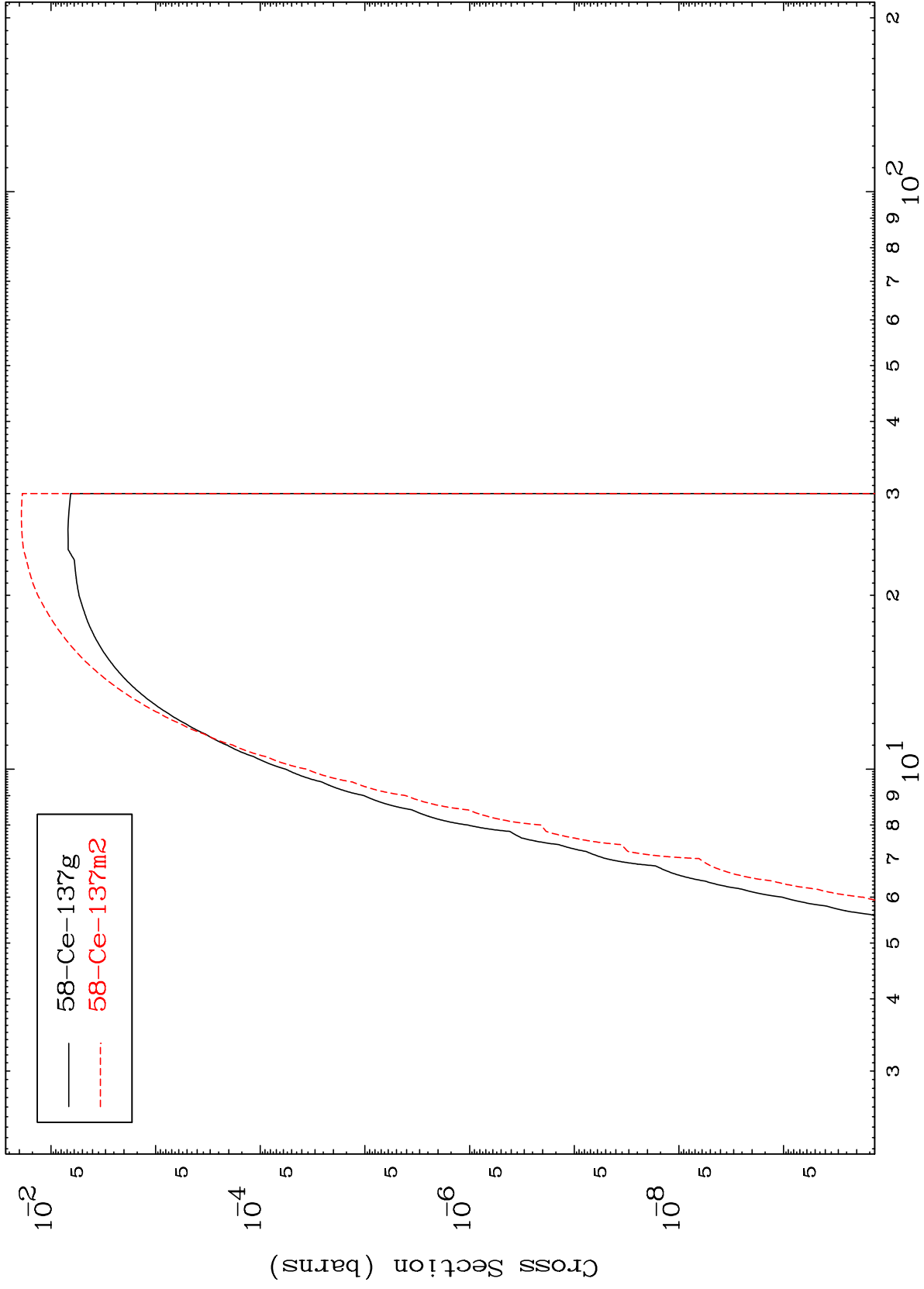
Incident Energy (MeV)

59-Pr-138

Radionuclide Production Cross Section



(n,d)
Radionuclide Production Cross Section

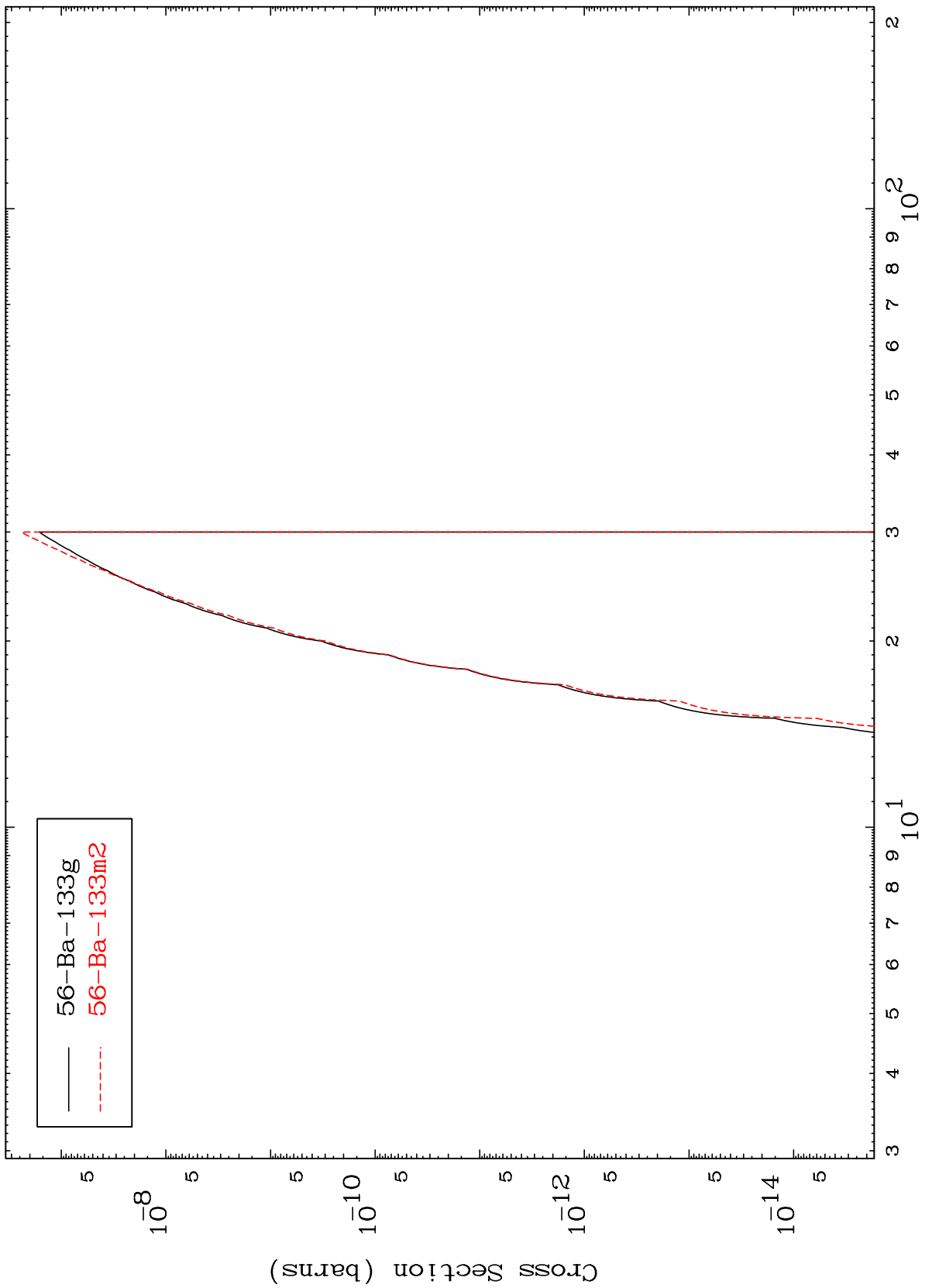


MAT 5916

(n,d) α

59-Pr-138

Radionuclide Production Cross Section



116

Incident Energy (MeV)

59-Pr-138