

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

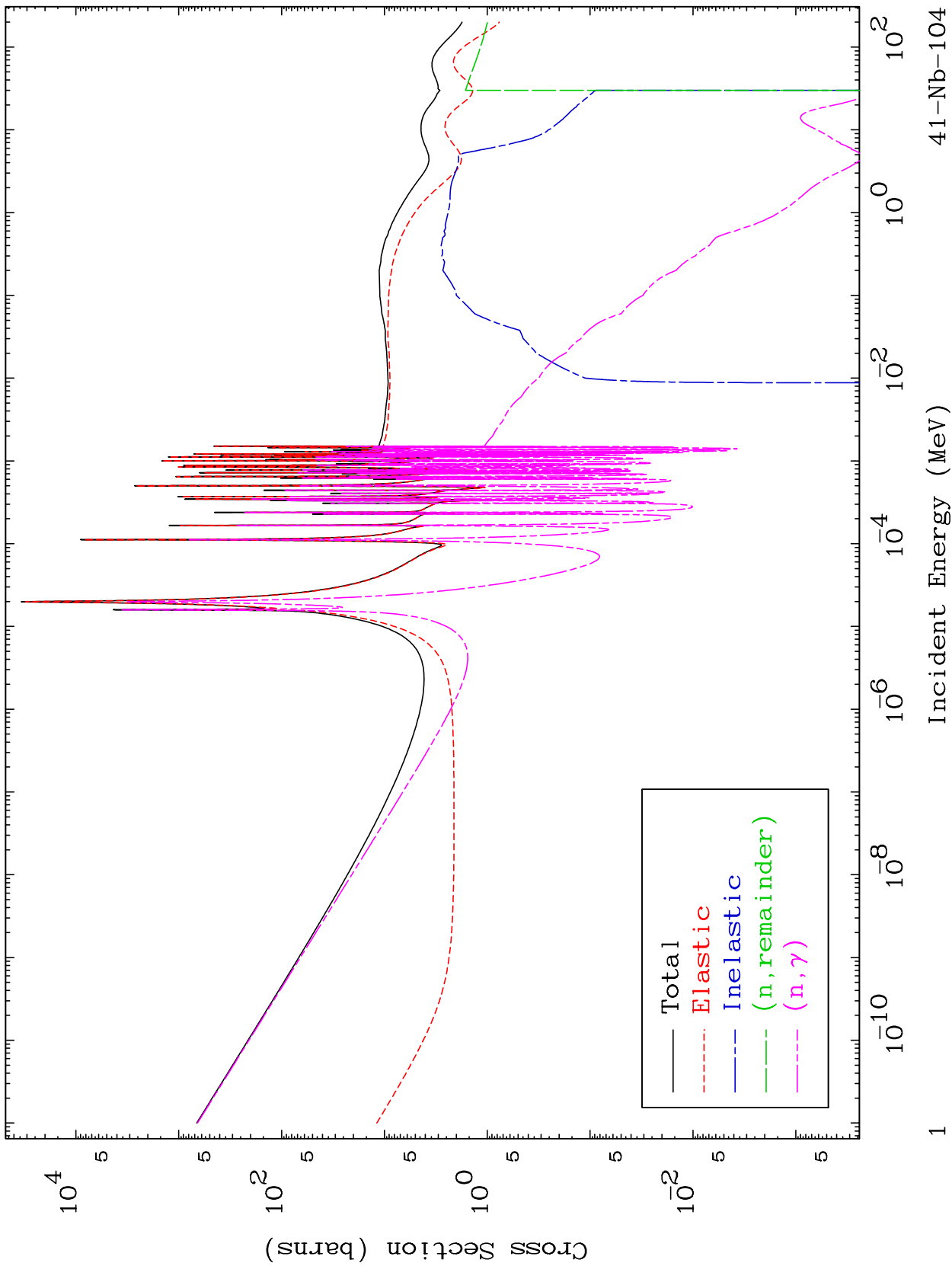
Press Mouse Button to Start

MAT 4158

Major

293 Kelvin Cross Sections

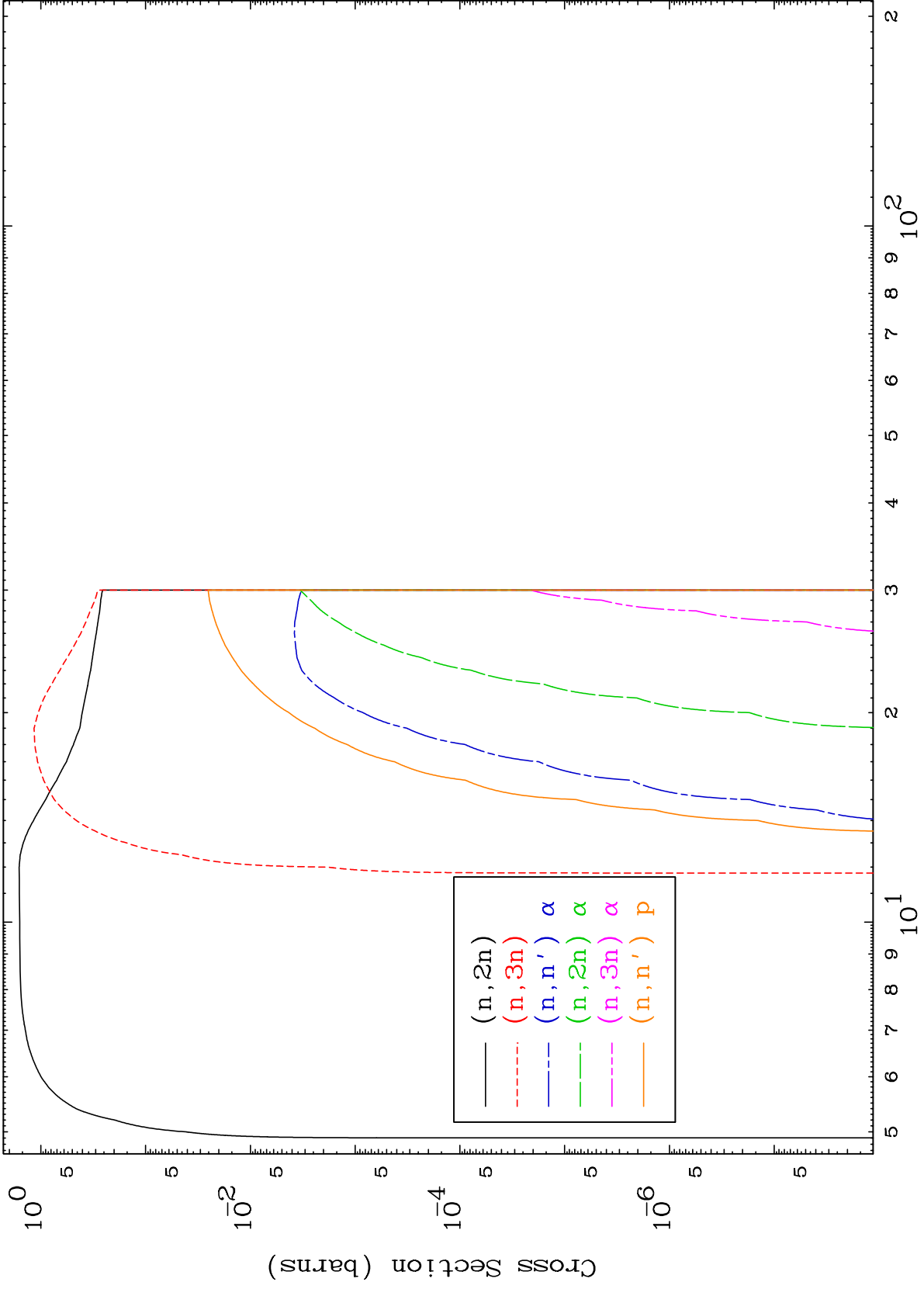
41-Nb-104



MAT 4158

Neutron Production
293 Kelvin Cross Sections

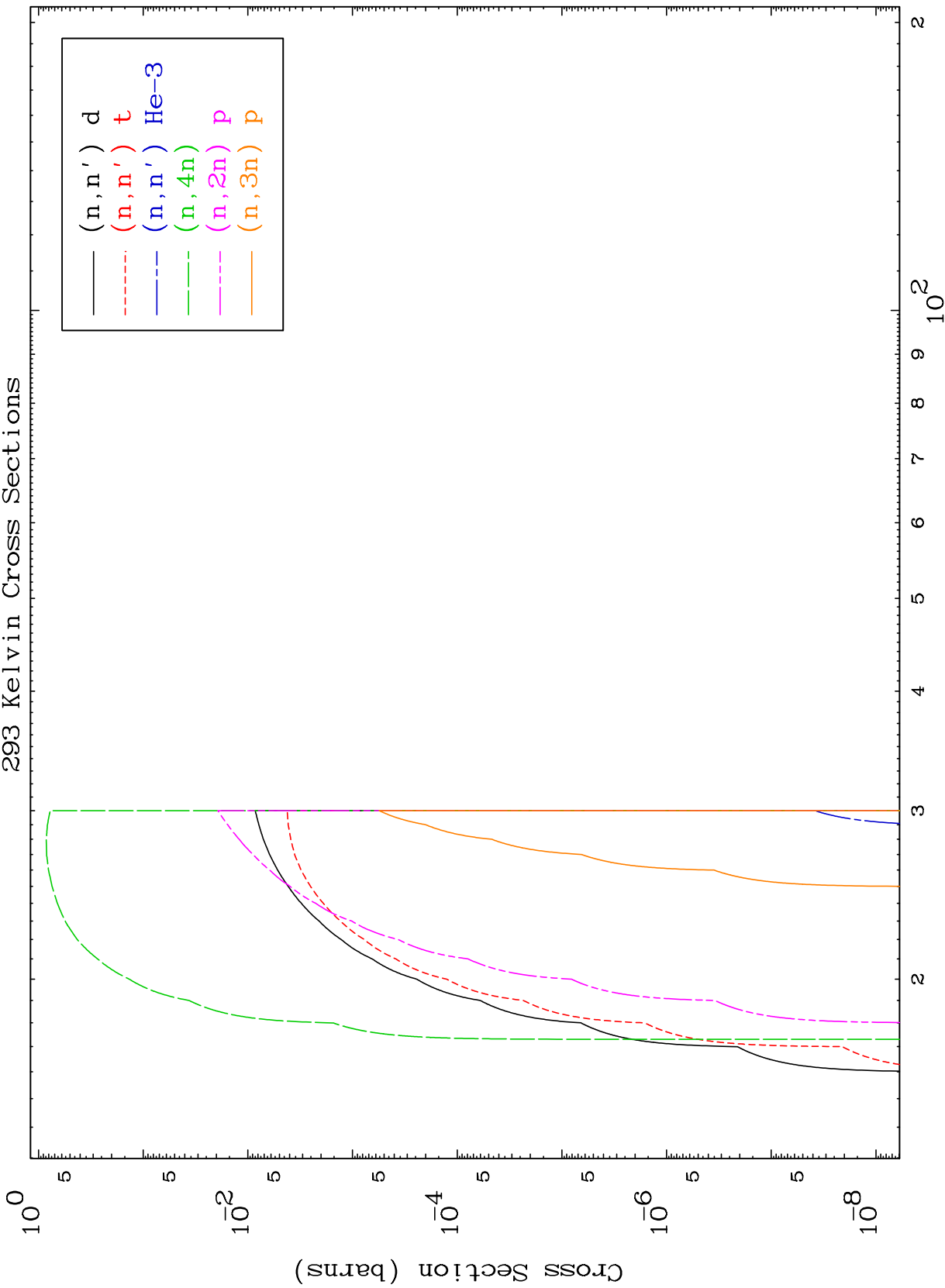
41-Nb-104

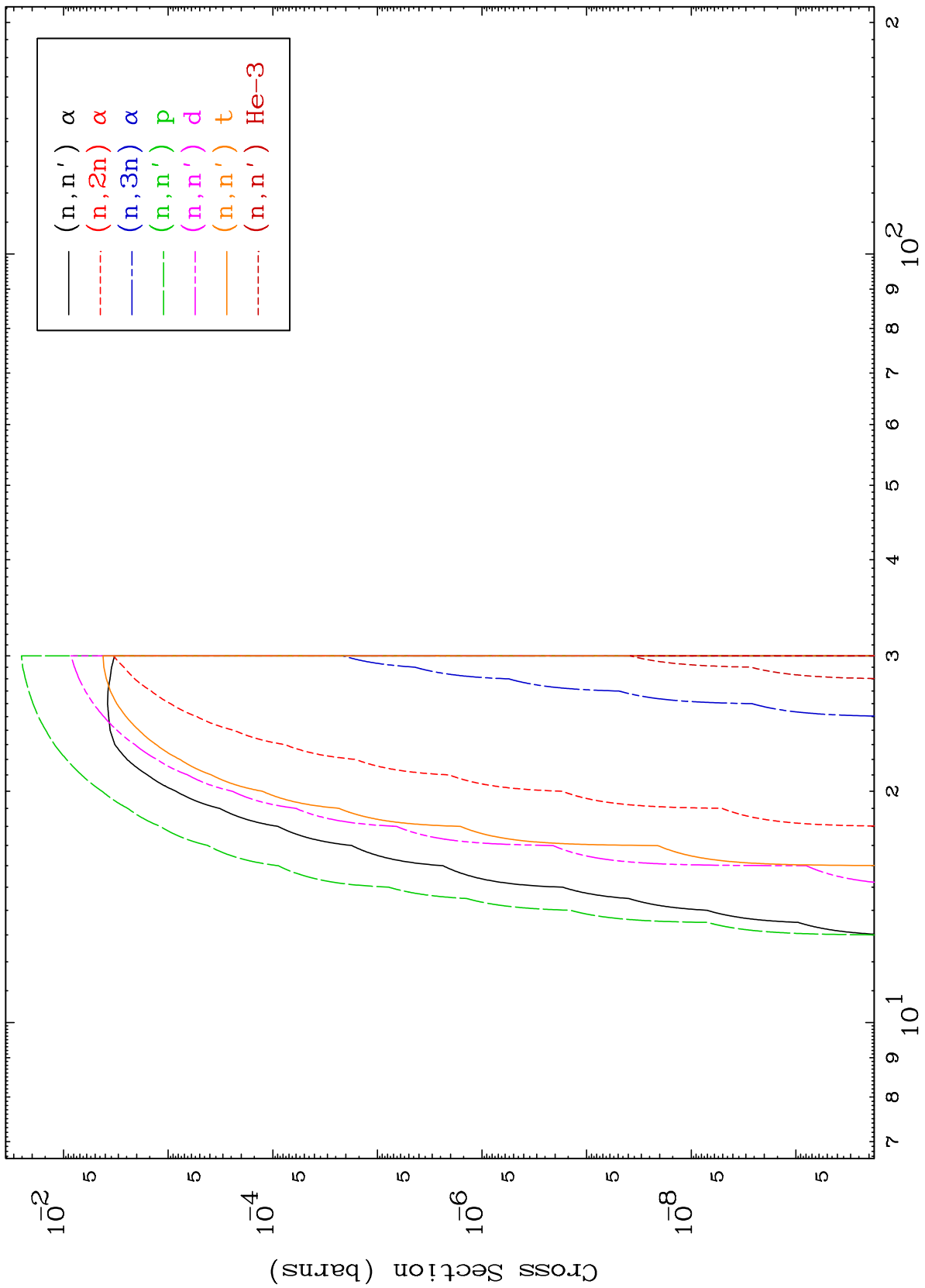


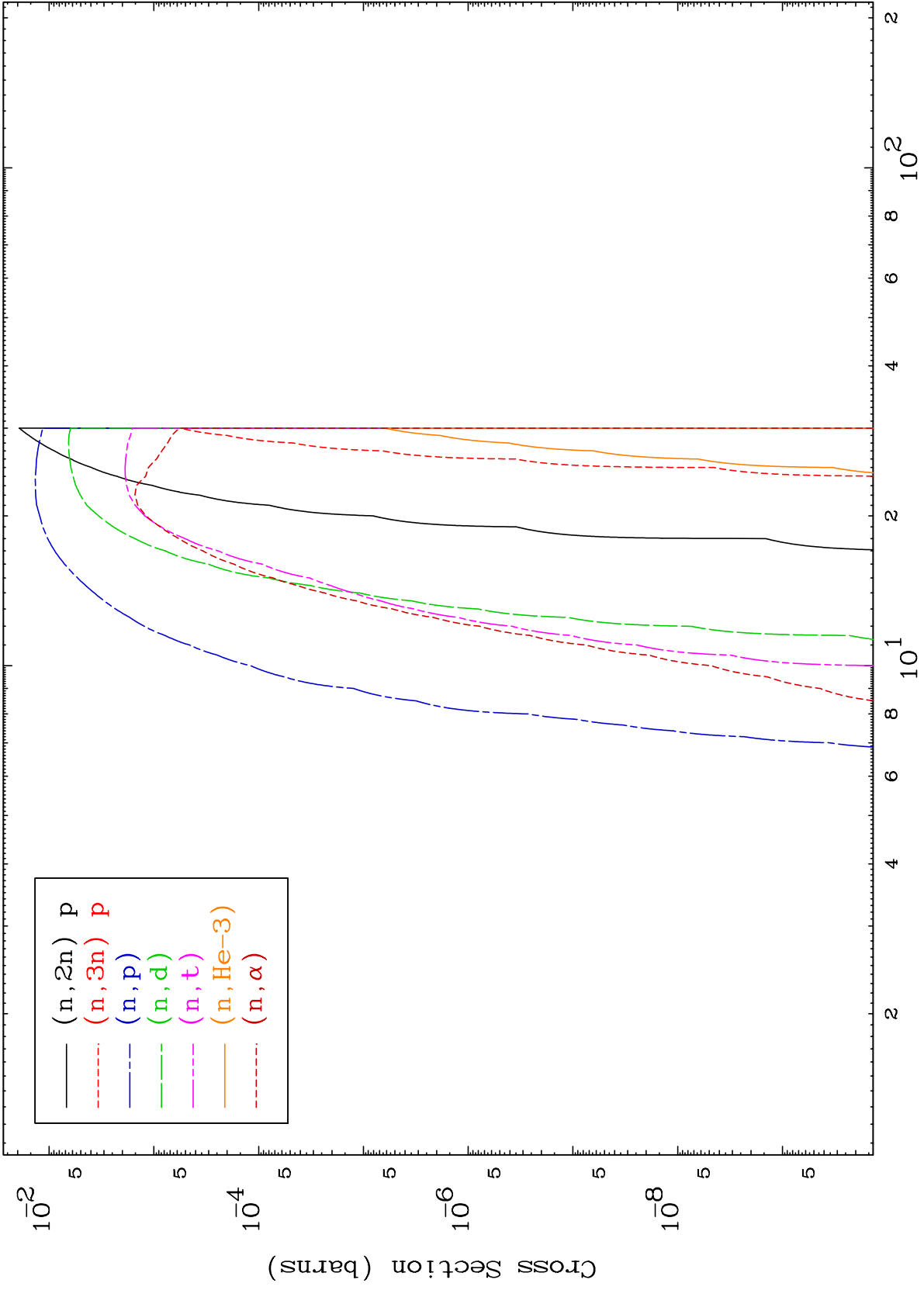
2

Incident Energy (MeV)

41-Nb-104



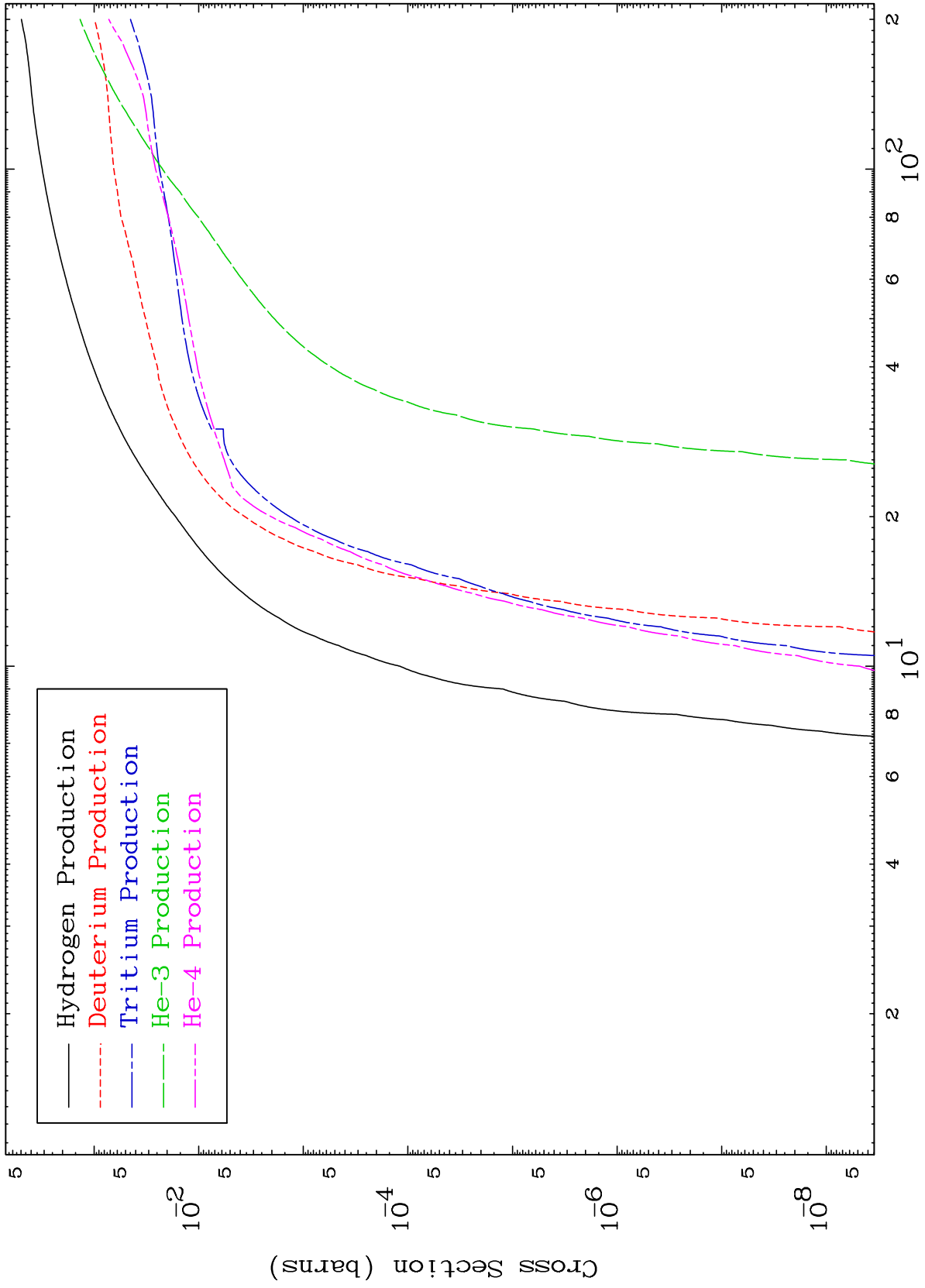




MAT 4158

Particle Production
293 Kelvin Cross Sections

41-Nb-104



6

Incident Energy (MeV)

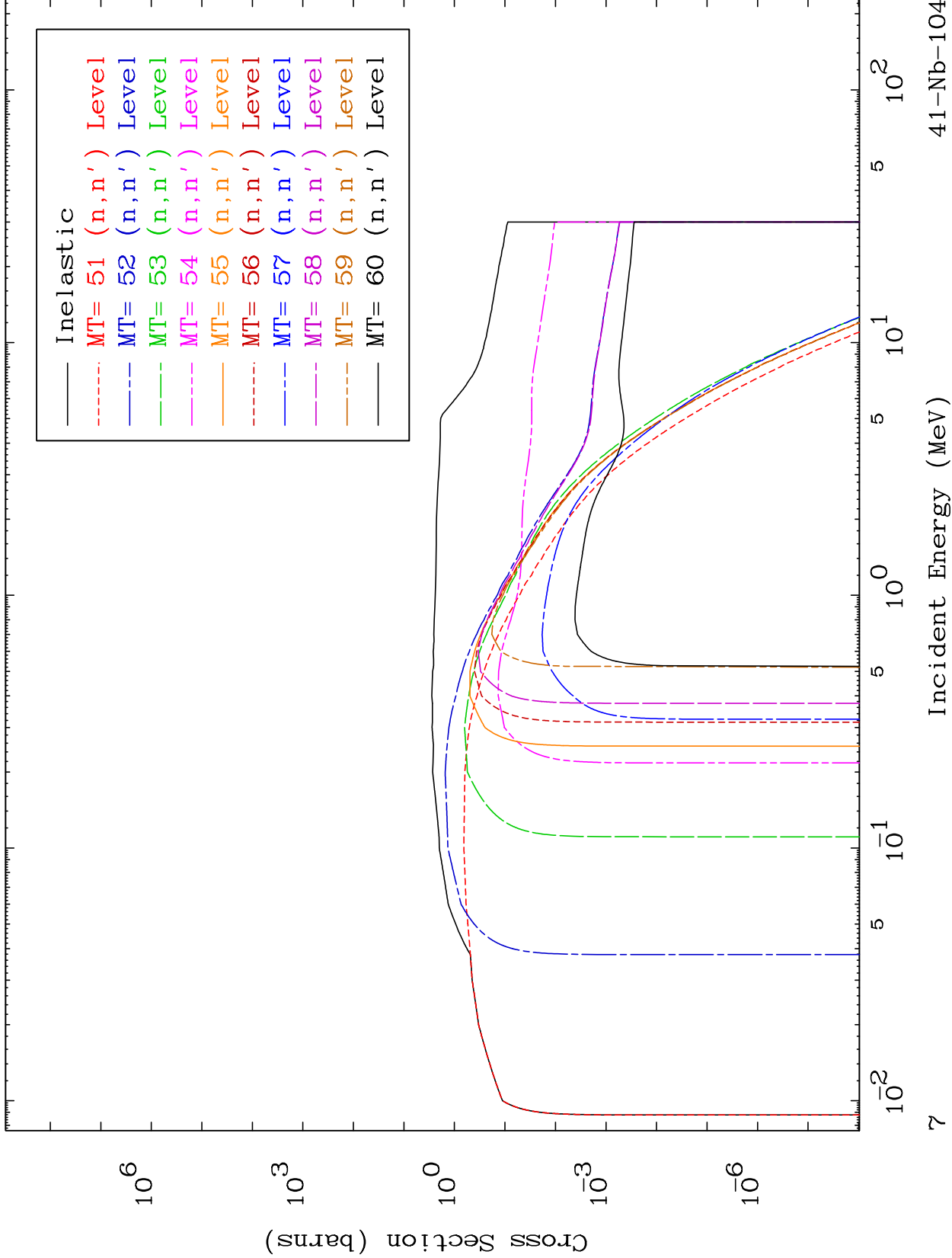
41-Nb-104

MAT 4158

(n,n') Level

41-Nb-104

293 Kelvin Cross Sections



41-Nb-104

Incident Energy (MeV)

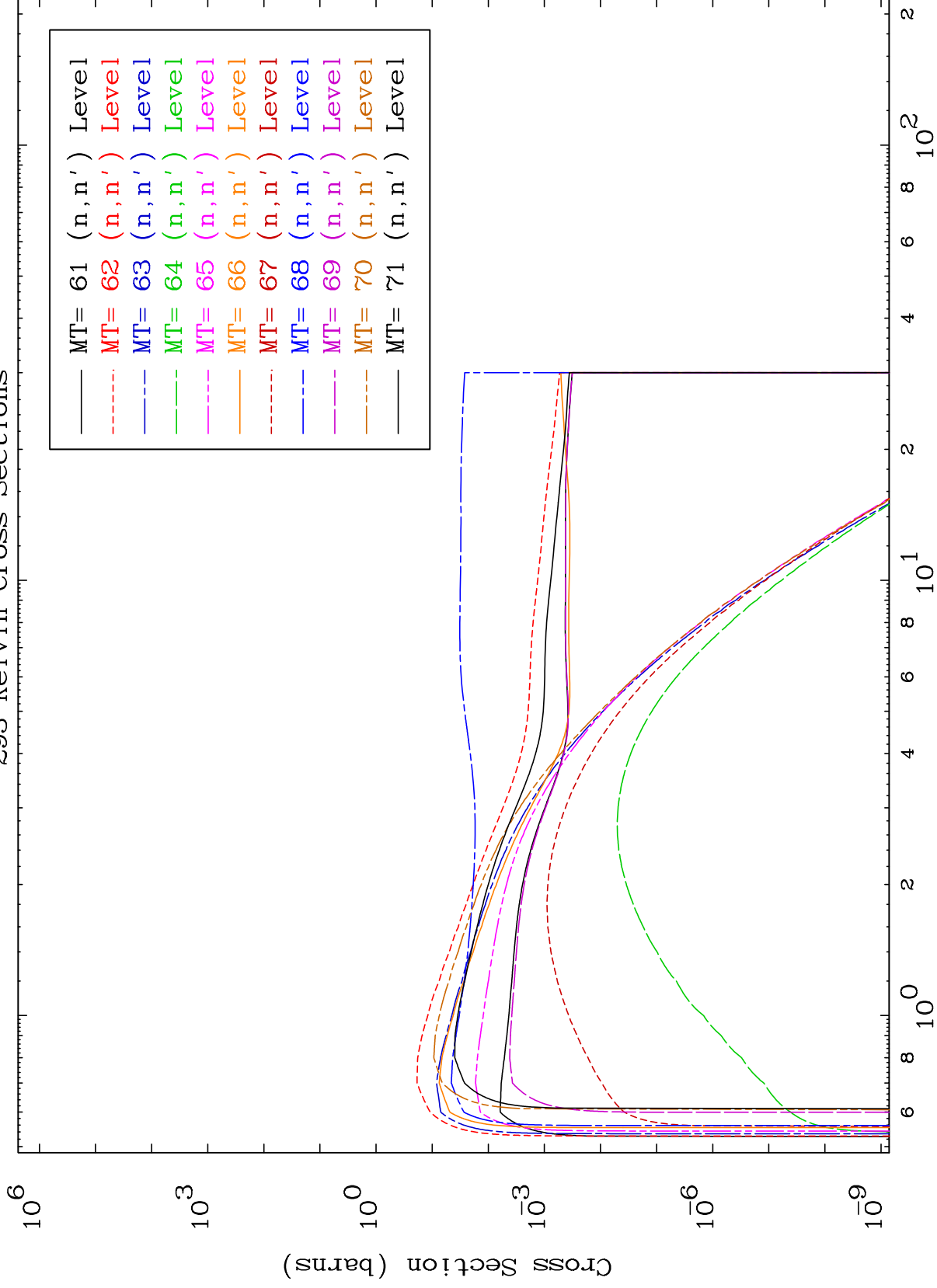
7

MAT 4158

(n,n') Level

293 Kelvin Cross Sections

41-Nb-104



8

Incident Energy (MeV)

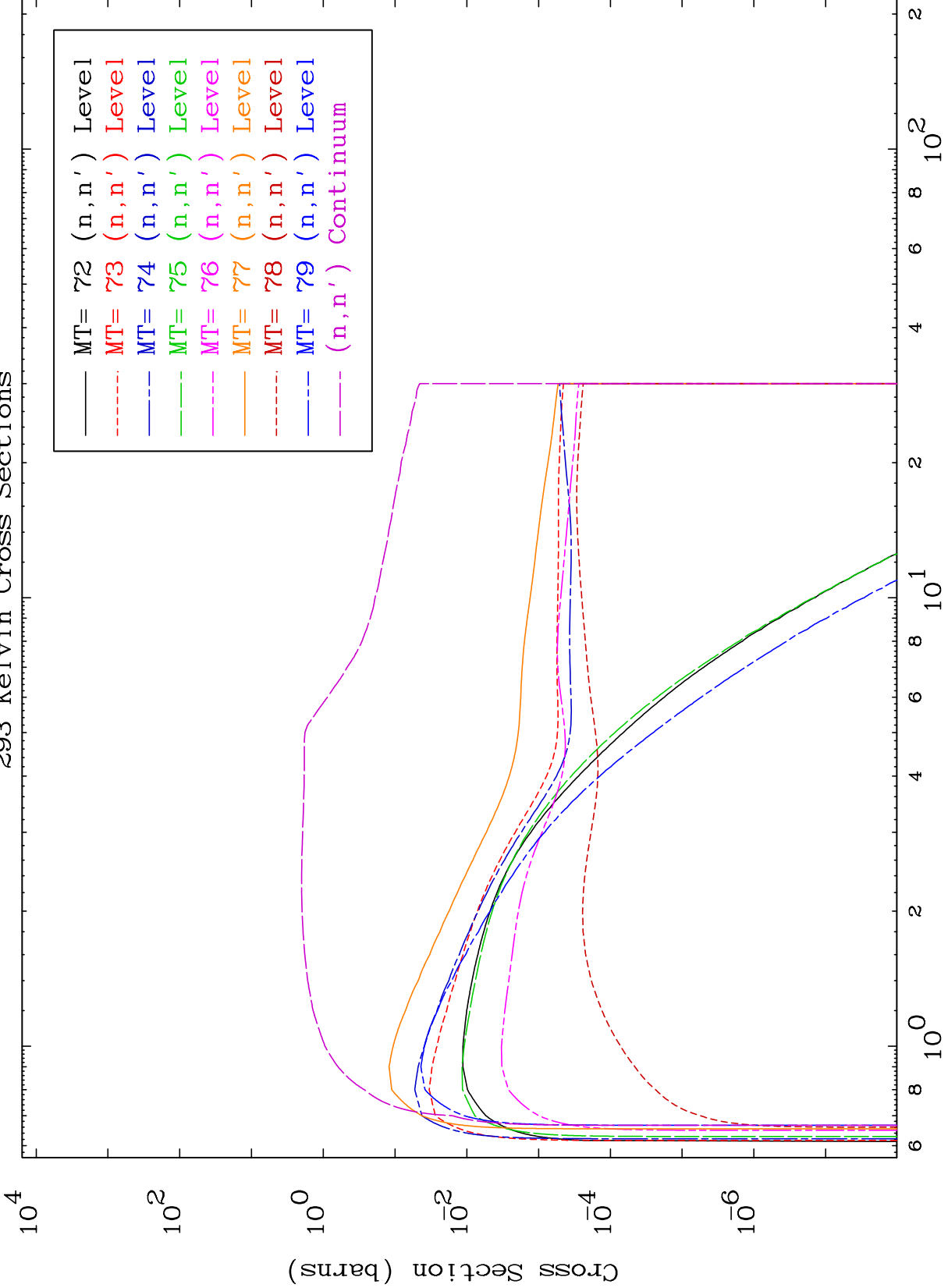
41-Nb-104

MAT 4158

(n,n') Level

41-Nb-104

293 Kelvin Cross Sections



9

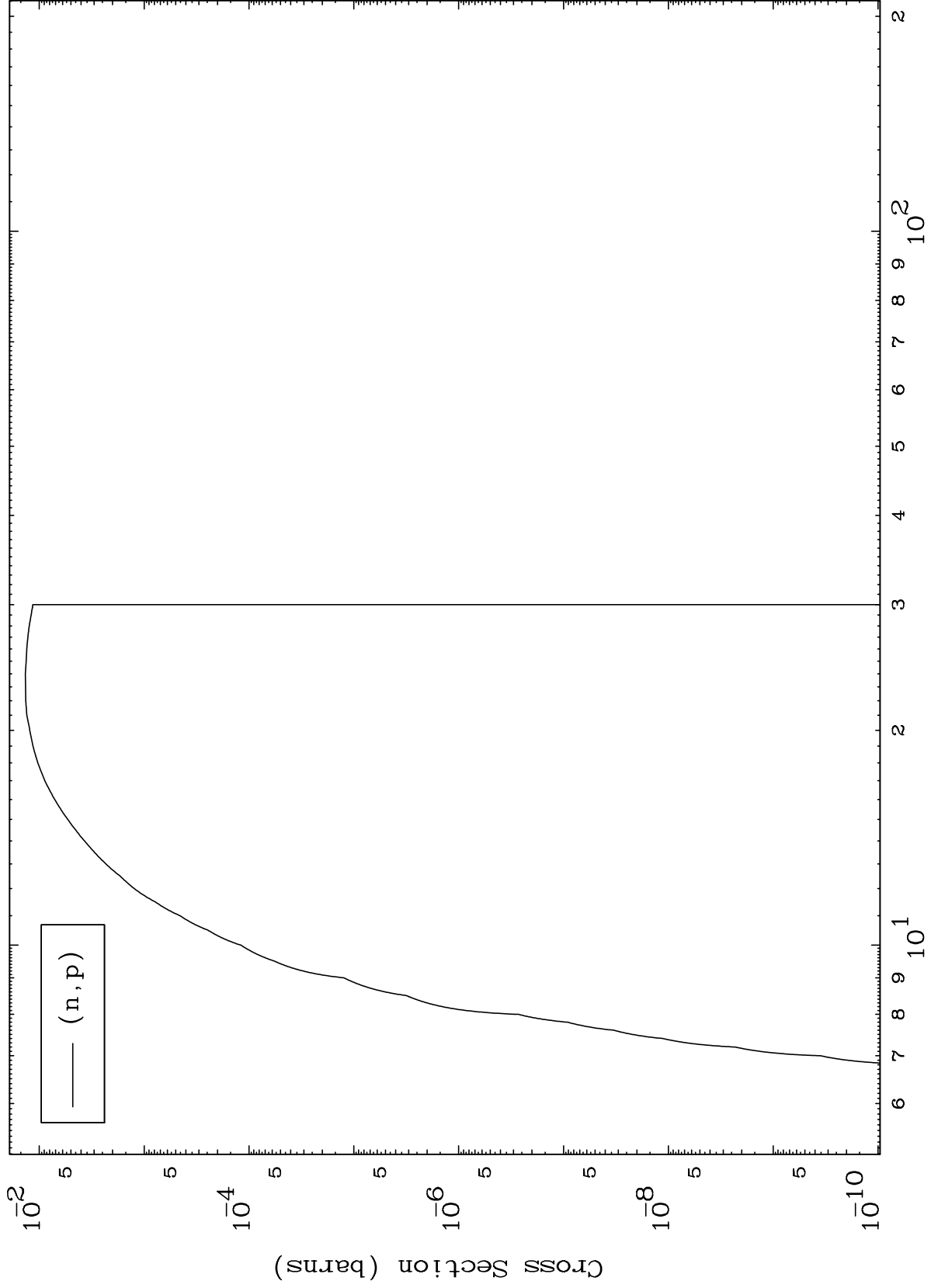
Incident Energy (MeV)

41-Nb-104

MAT 4158

(n,p) Levels
293 Kelvin Cross Sections

41-Nb-104



10

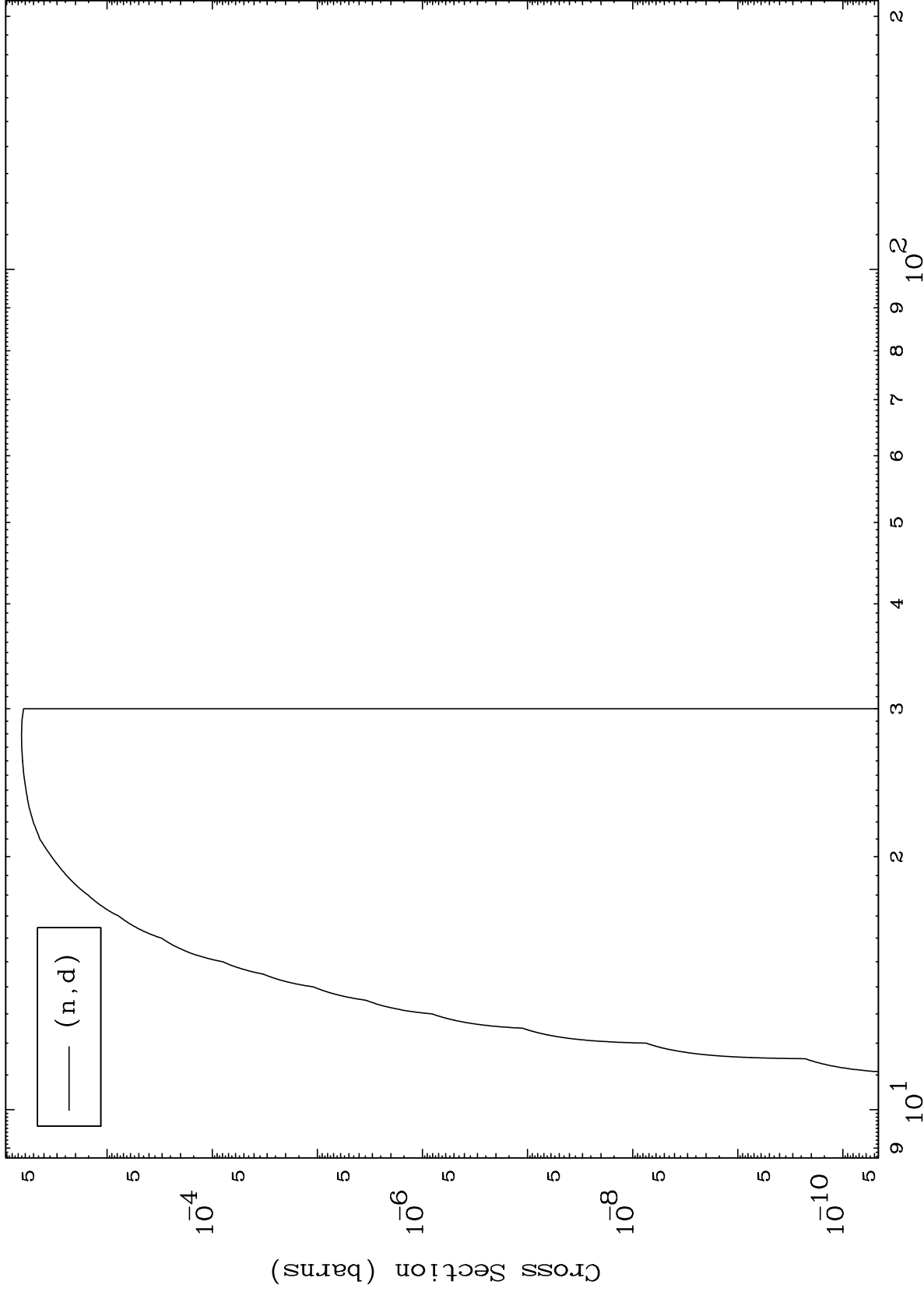
Incident Energy (MeV)

41-Nb-104

MAT 4158

(n,d) Levels
293 Kelvin Cross Sections

41-Nb-104



11

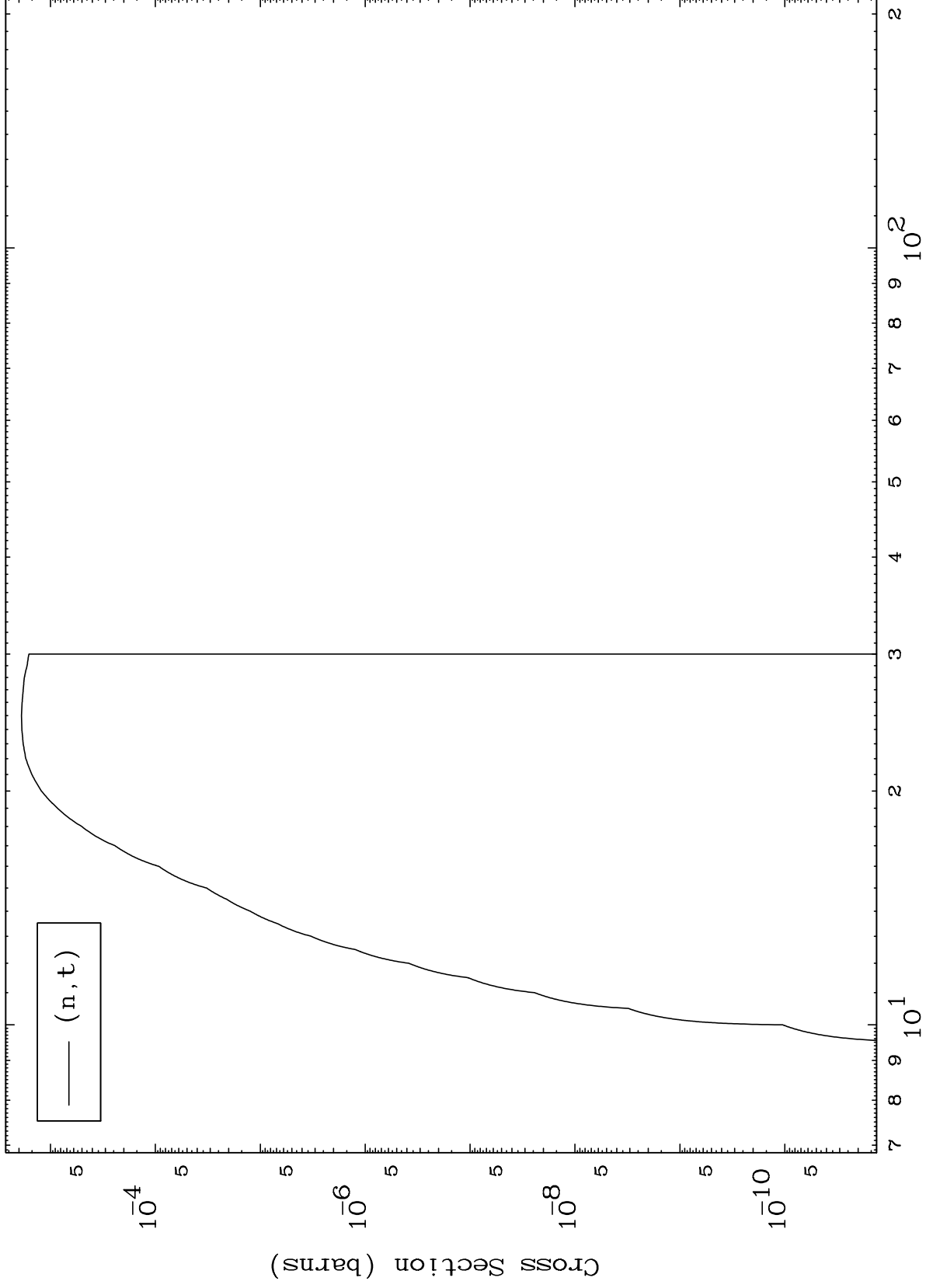
Incident Energy (MeV)

41-Nb-104

MAT 4158

(n,t) Levels
293 Kelvin Cross Sections

41-Nb-104



12

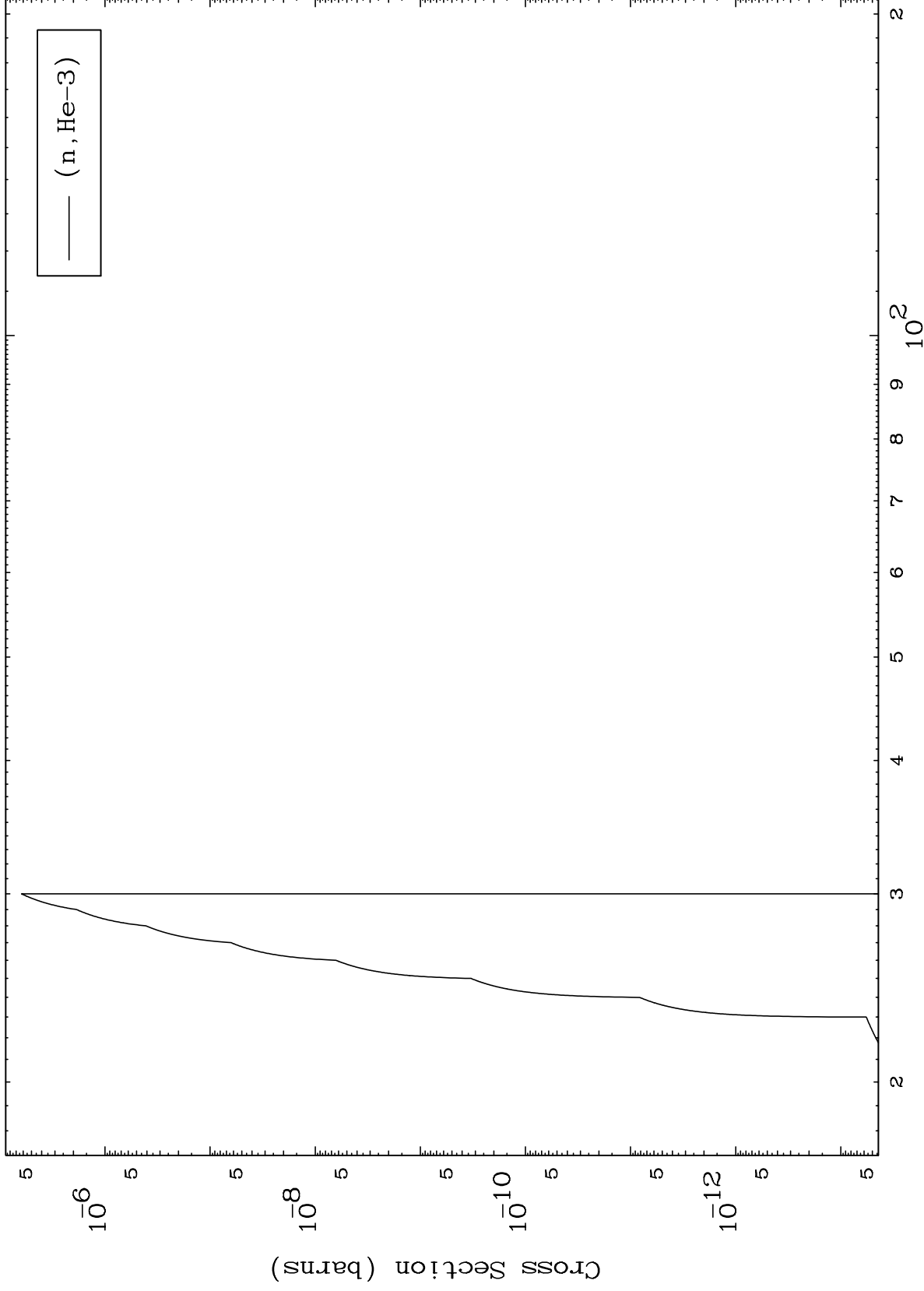
Incident Energy (MeV)

41-Nb-104

MAT 4158

(n,He3) Levels
293 Kelvin Cross Sections

41-Nb-104



13

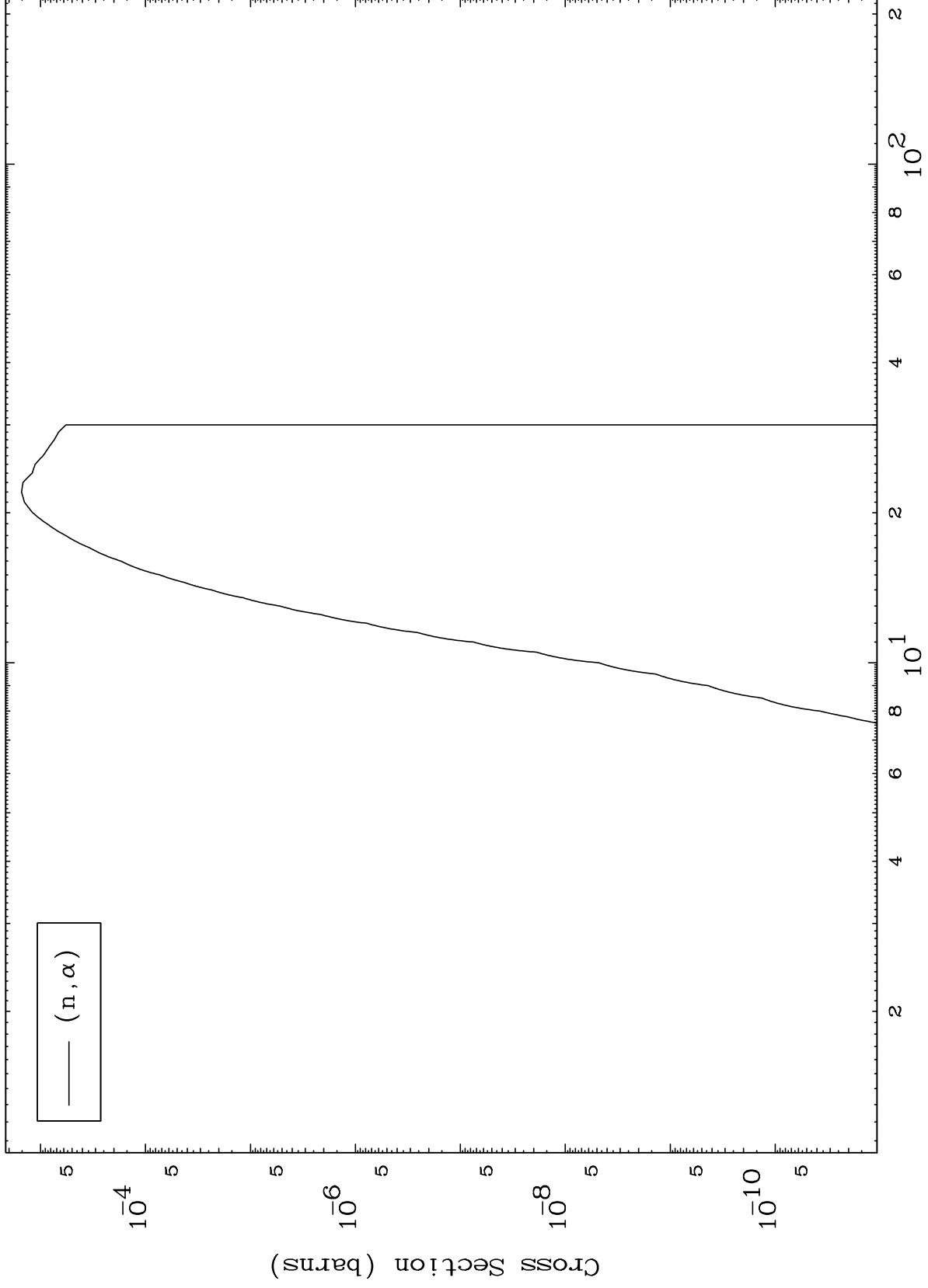
Incident Energy (MeV)

41-Nb-104

MAT 4158

(n, α) Levels
293 Kelvin Cross Sections

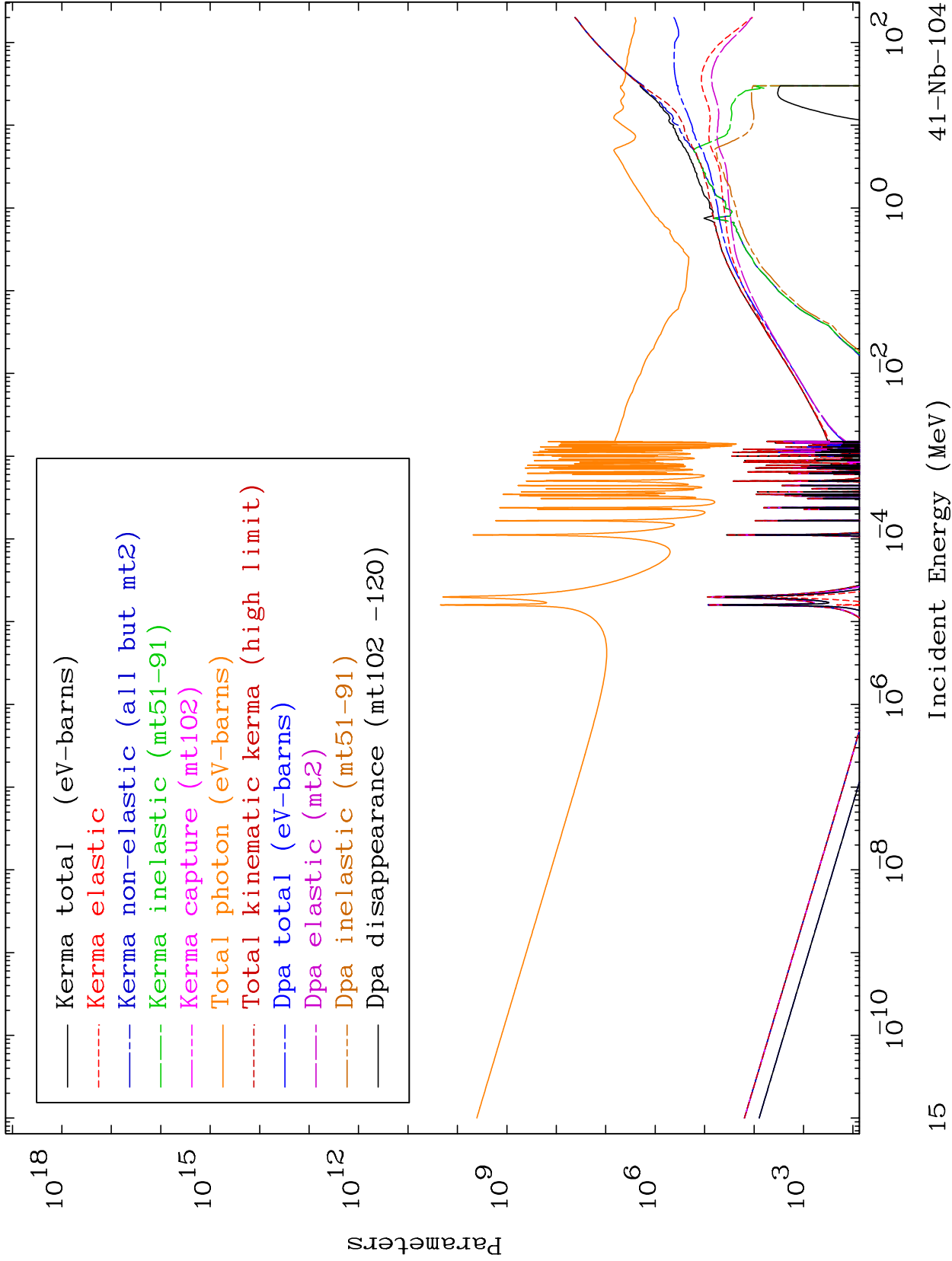
41-Nb-104



14

Incident Energy (MeV)

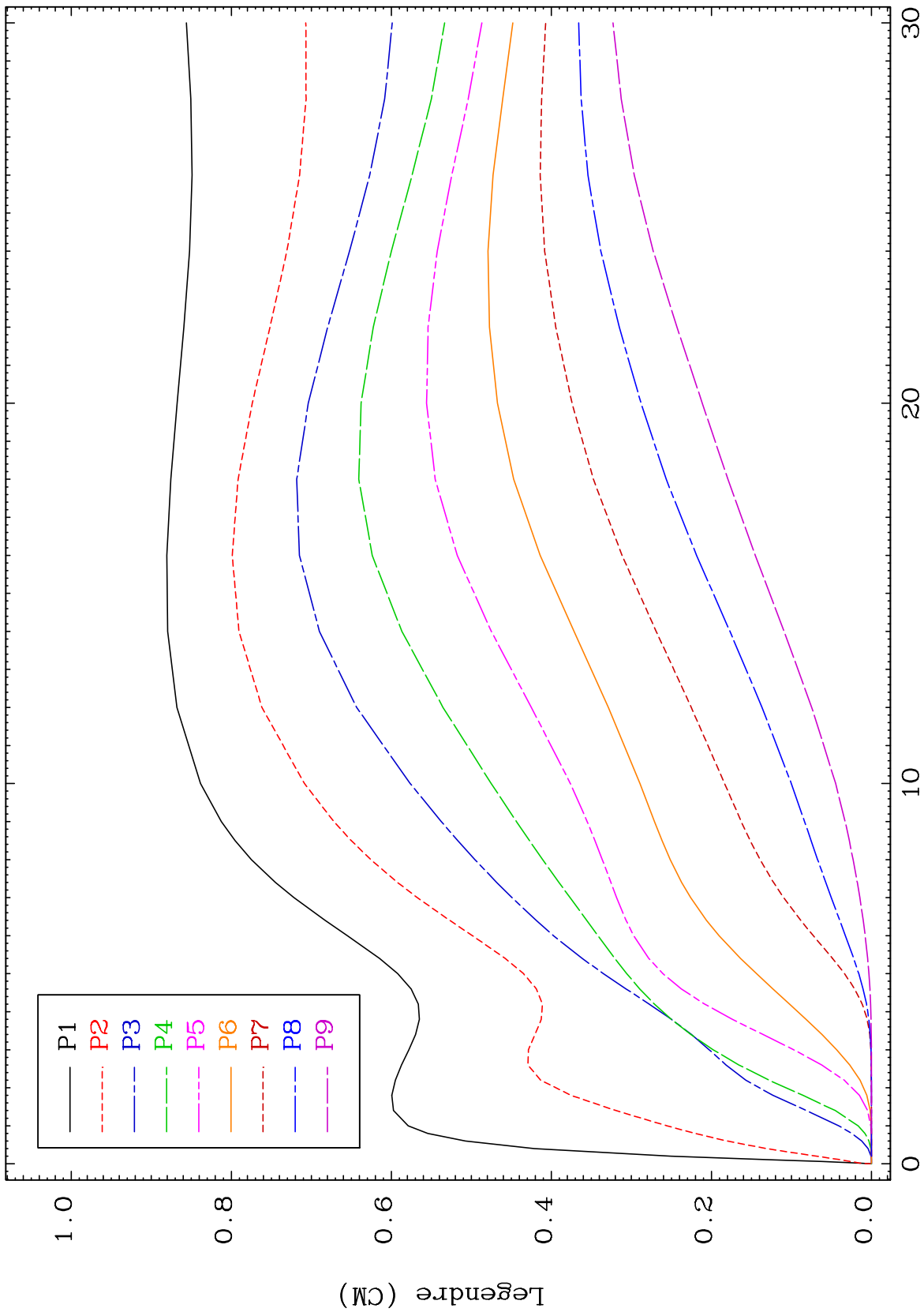
41-Nb-104



MAT 4158

Elastic Legendre Coefficients

41-Nb-104

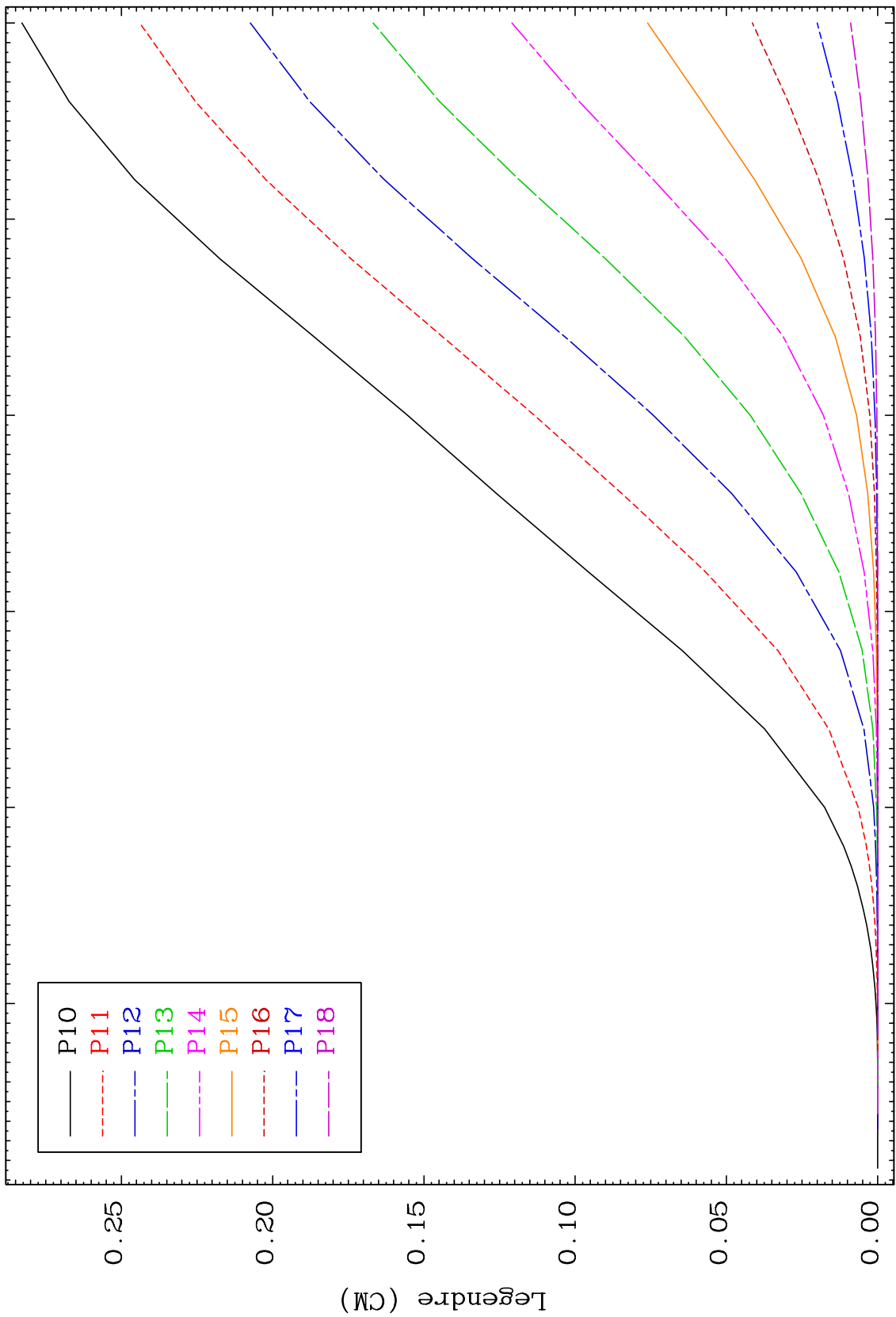


16

Incident Energy (MeV)

41-Nb-104

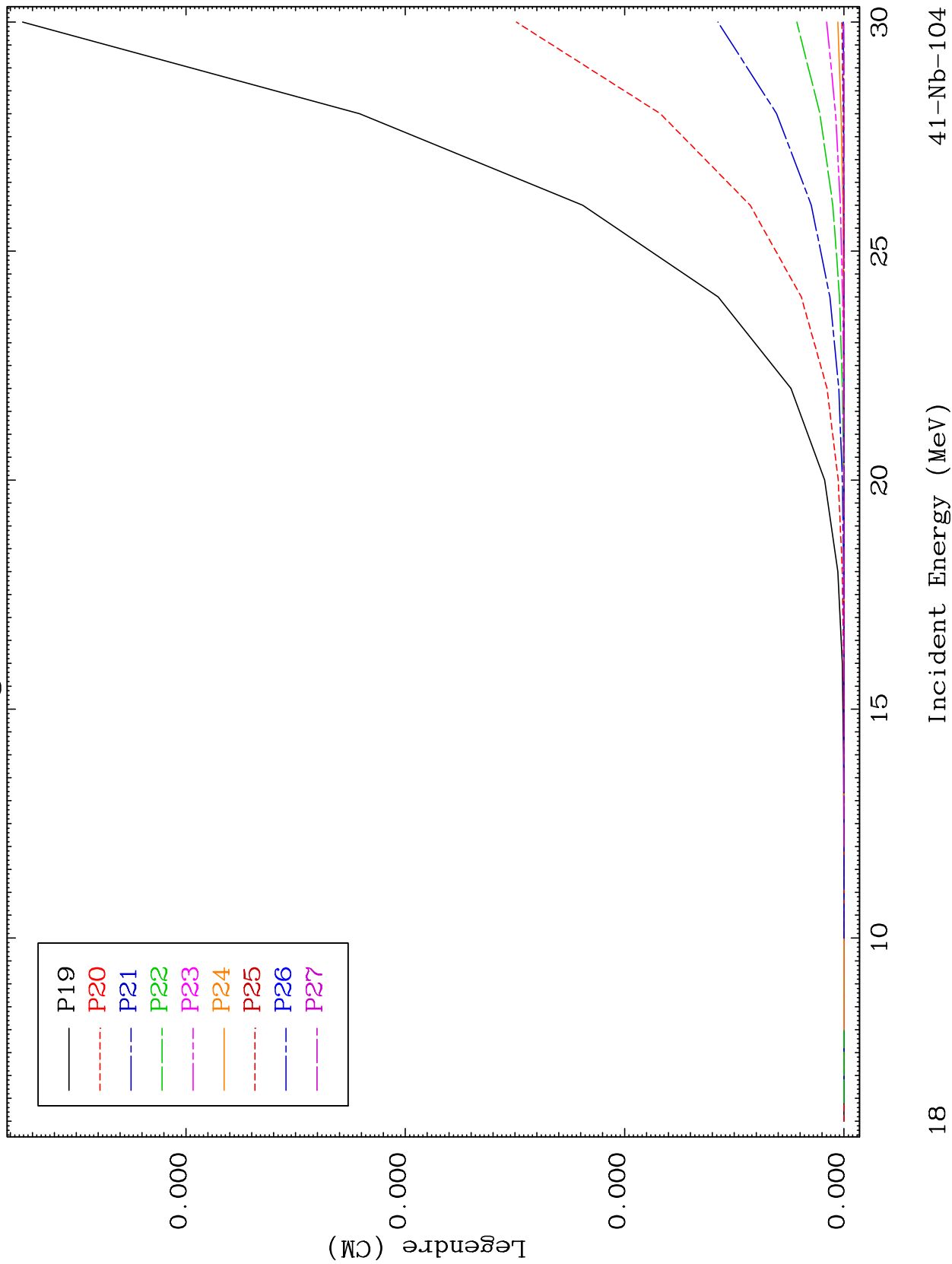
Elastic Legendre Coefficients



MAT 4158

Elastic Legendre Coefficients

41-Nb-104



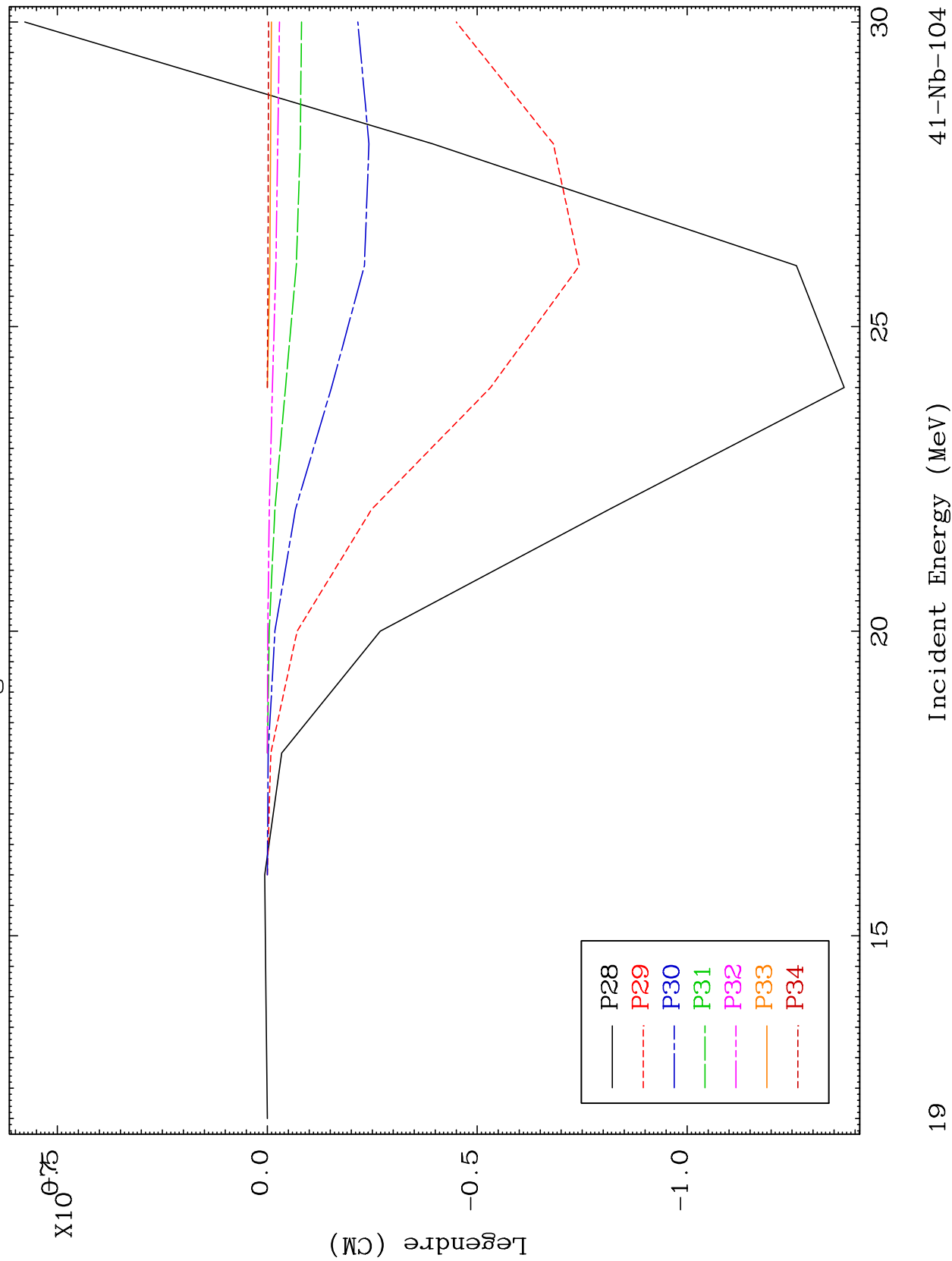
18

41-Nb-104

MAT 4158

Elastic
Legendre Coefficients

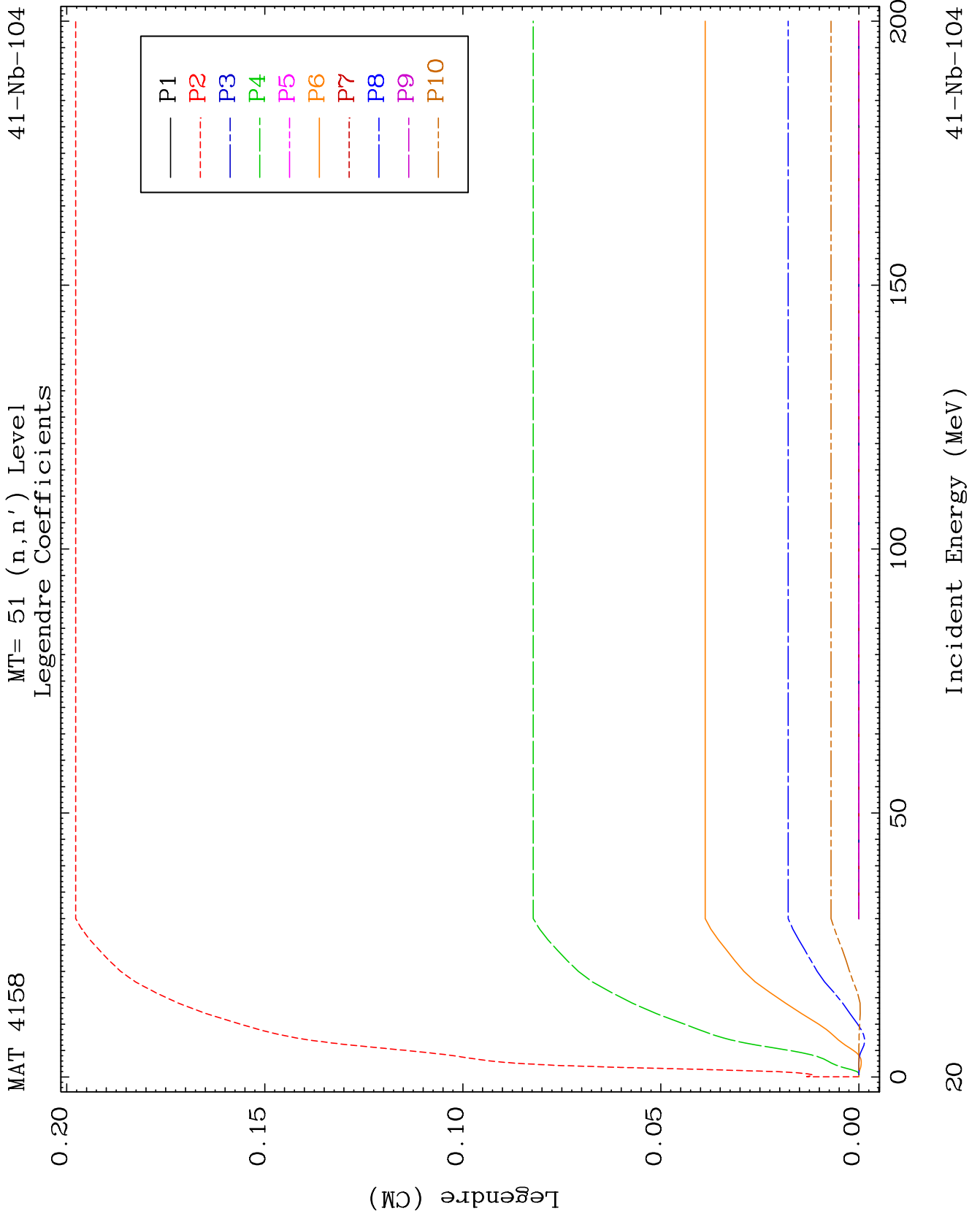
41-Nb-104



19

Incident Energy (MeV)

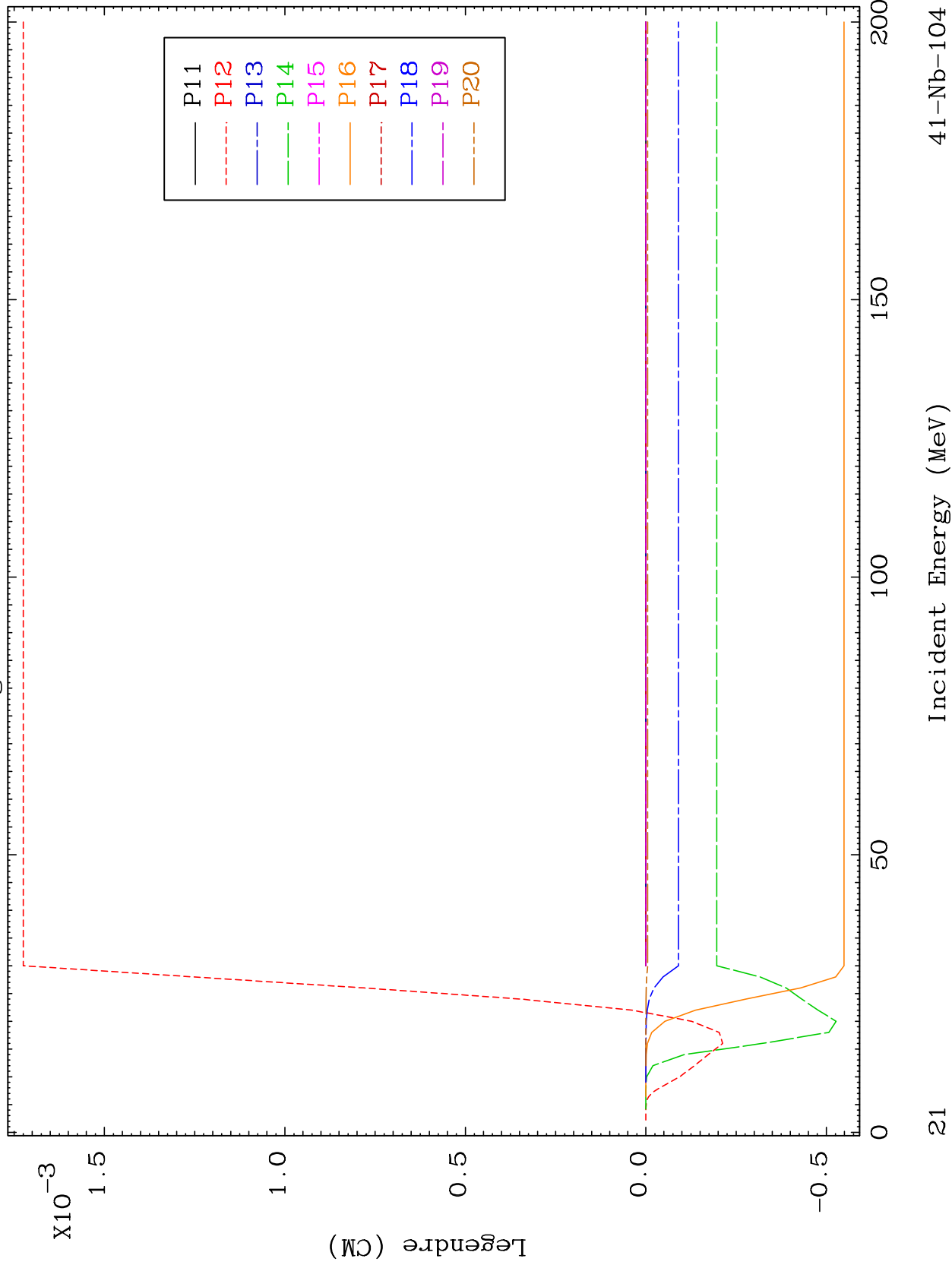
41-Nb-104



MAT 4158

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

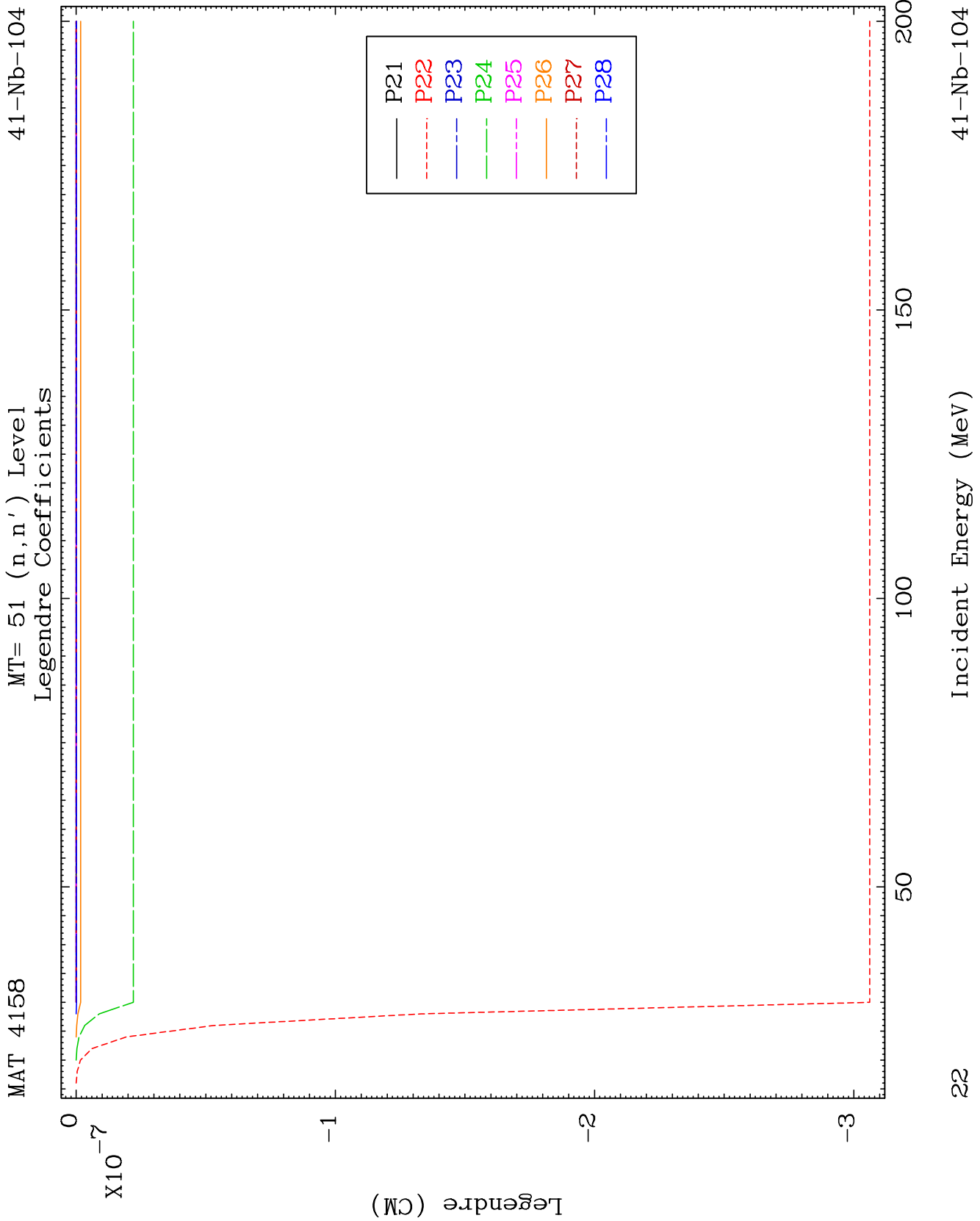
41-Nb-104



21

Incident Energy (MeV)

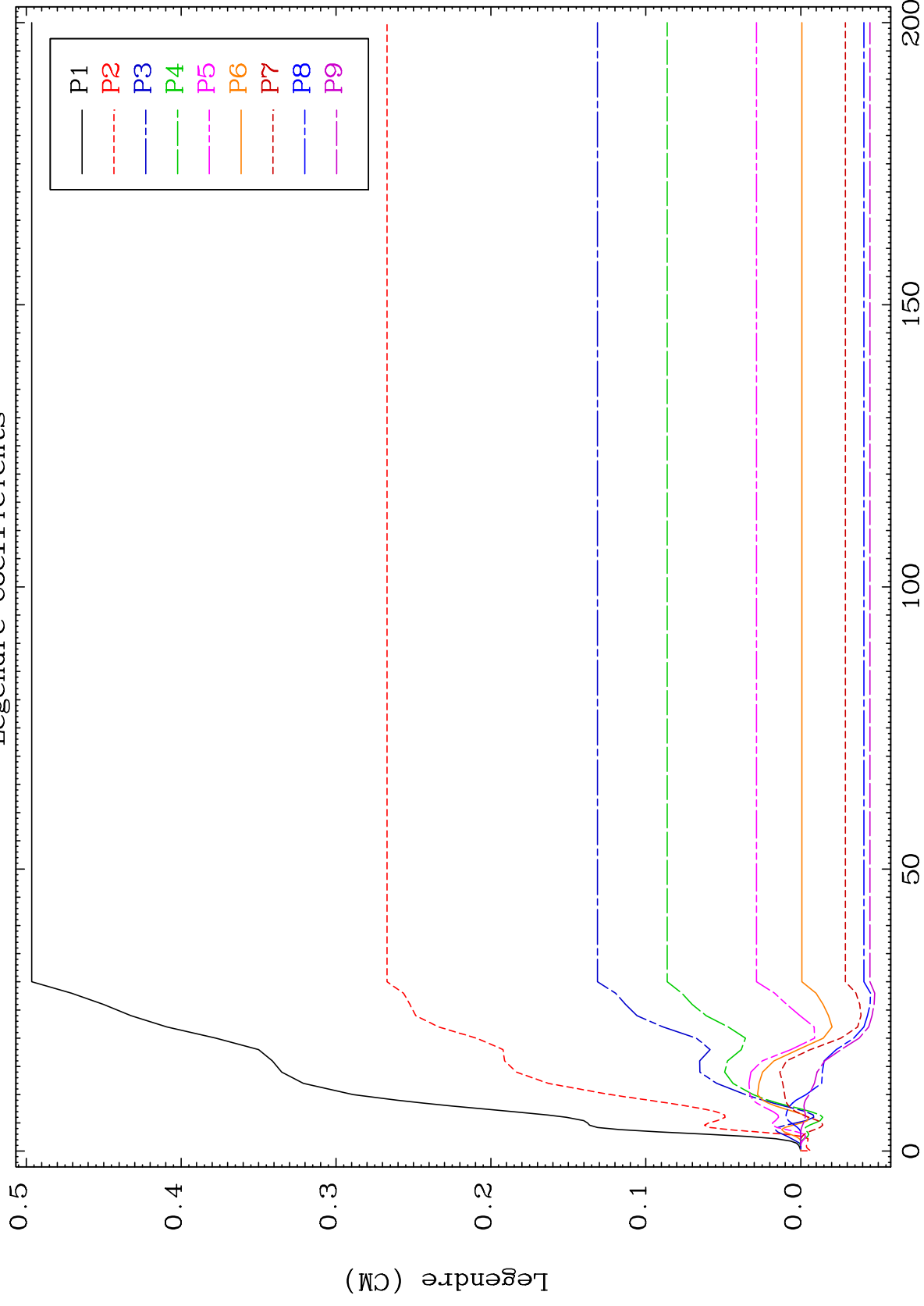
41-Nb-104



MAT 4158

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

41-Nb-104



23

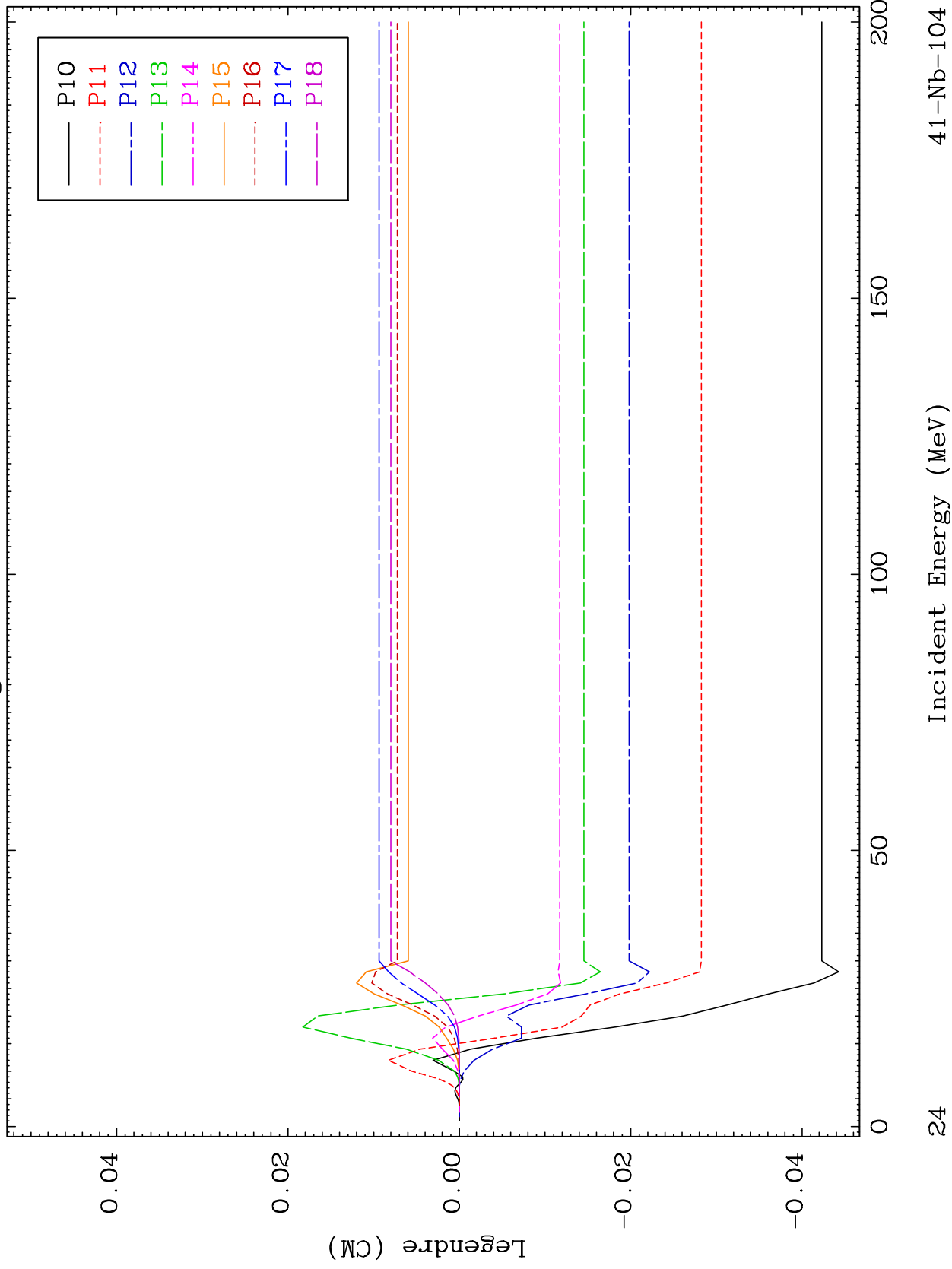
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



24

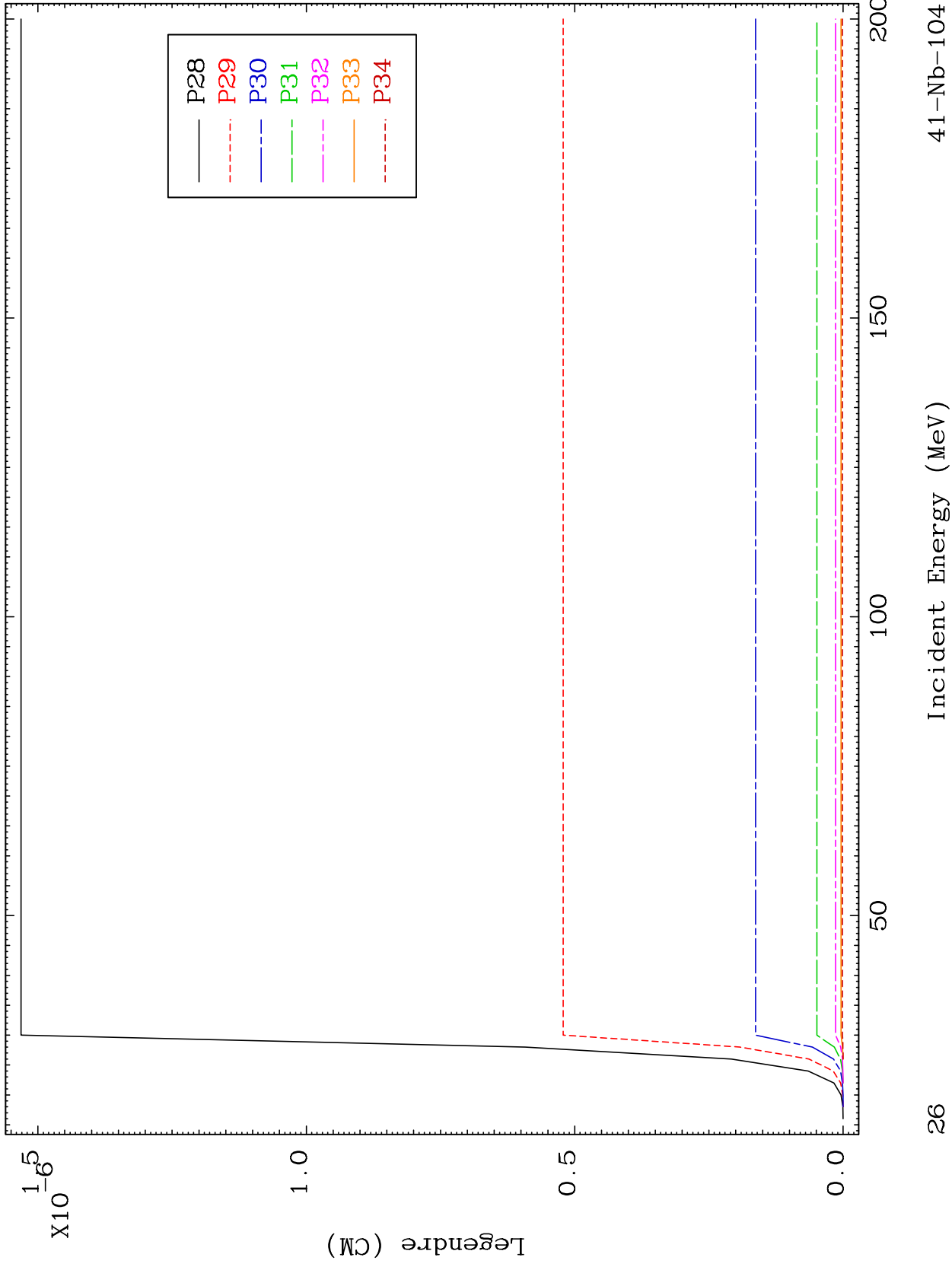
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104

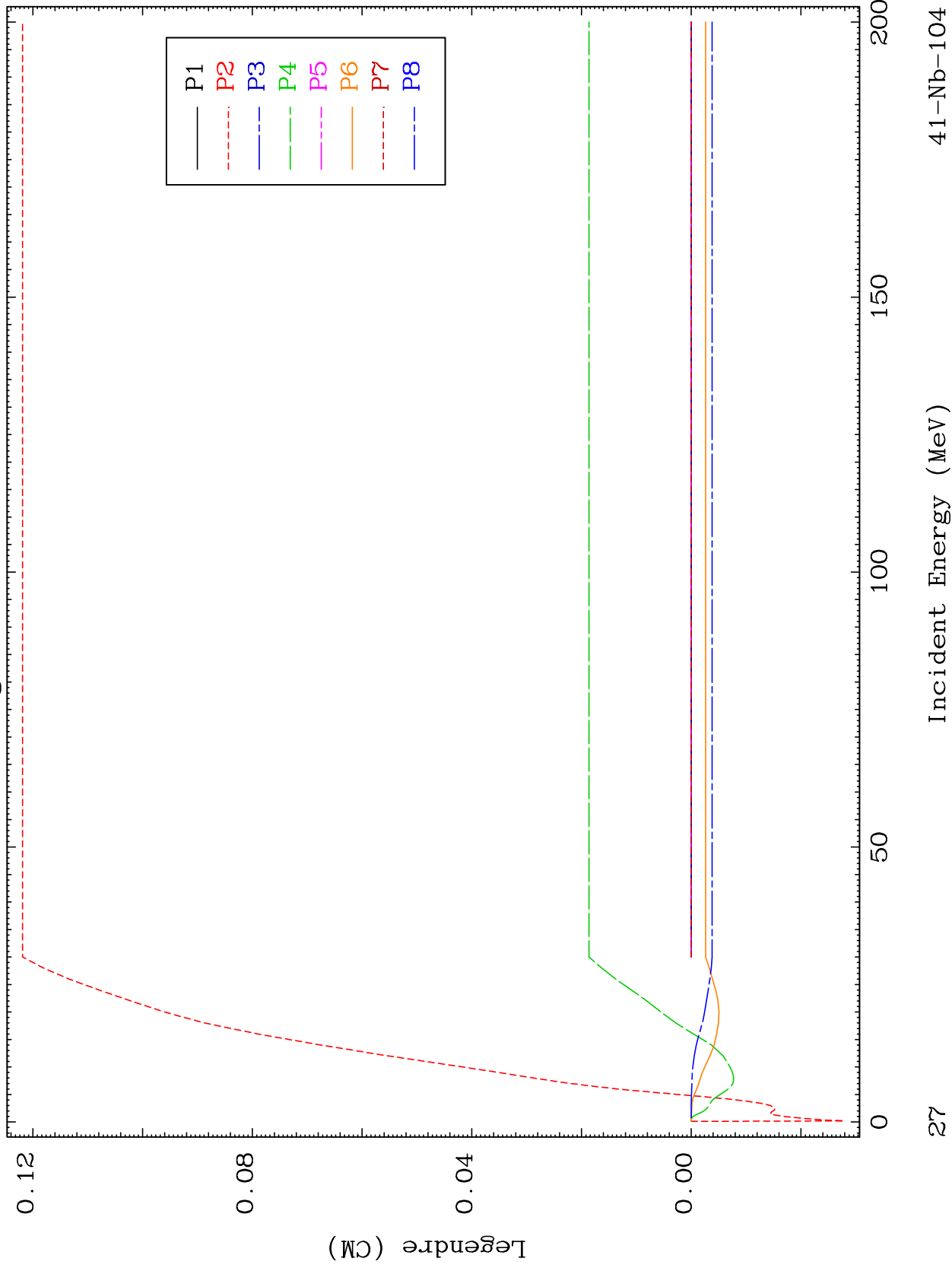


26

MAT 4158

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

41-Nb-104



27

Incident Energy (MeV)

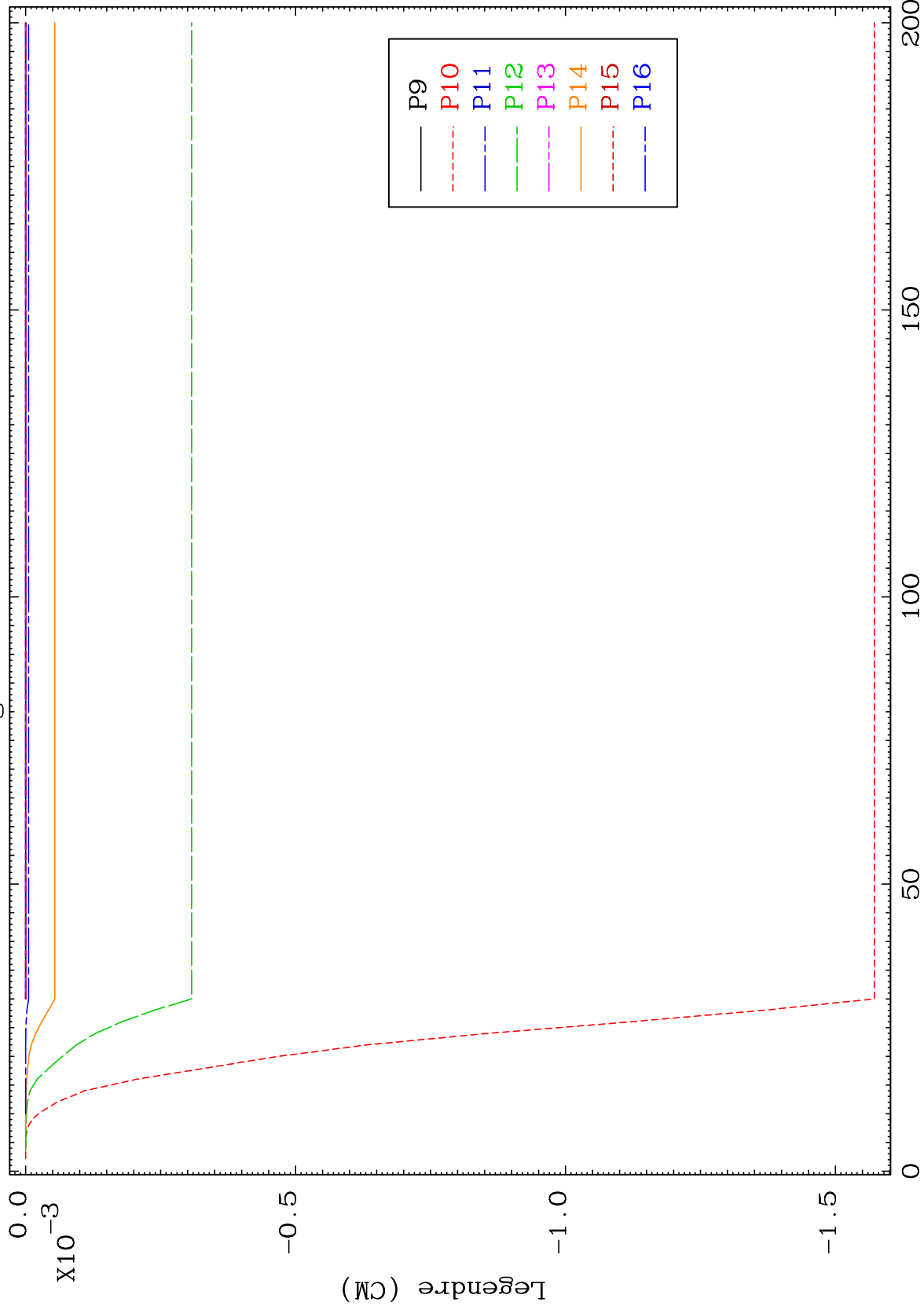
41-Nb-104

MAT 4158

MT= 53 (n,n') Level

41-Nb-104

Legendre Coefficients



28

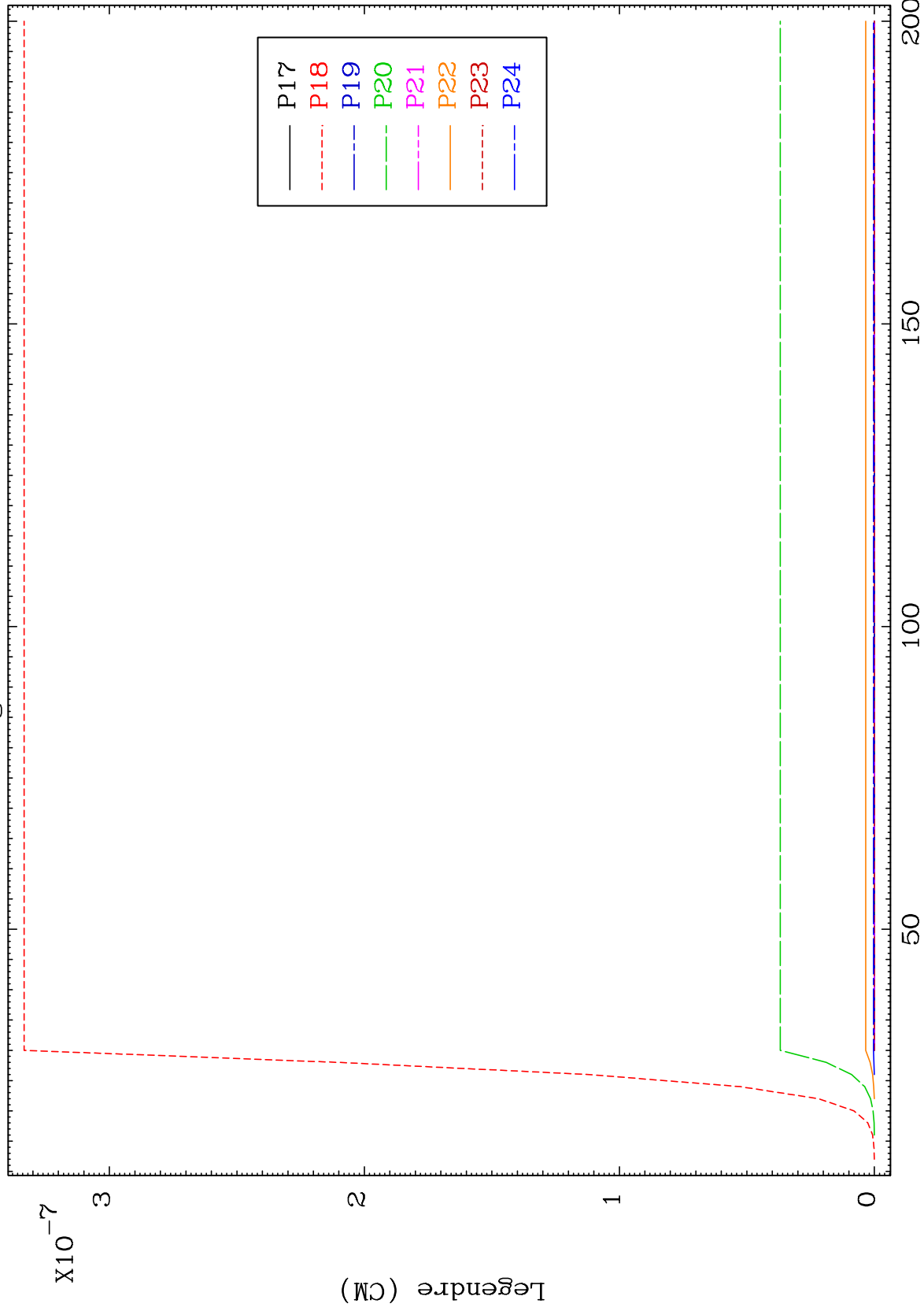
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



29

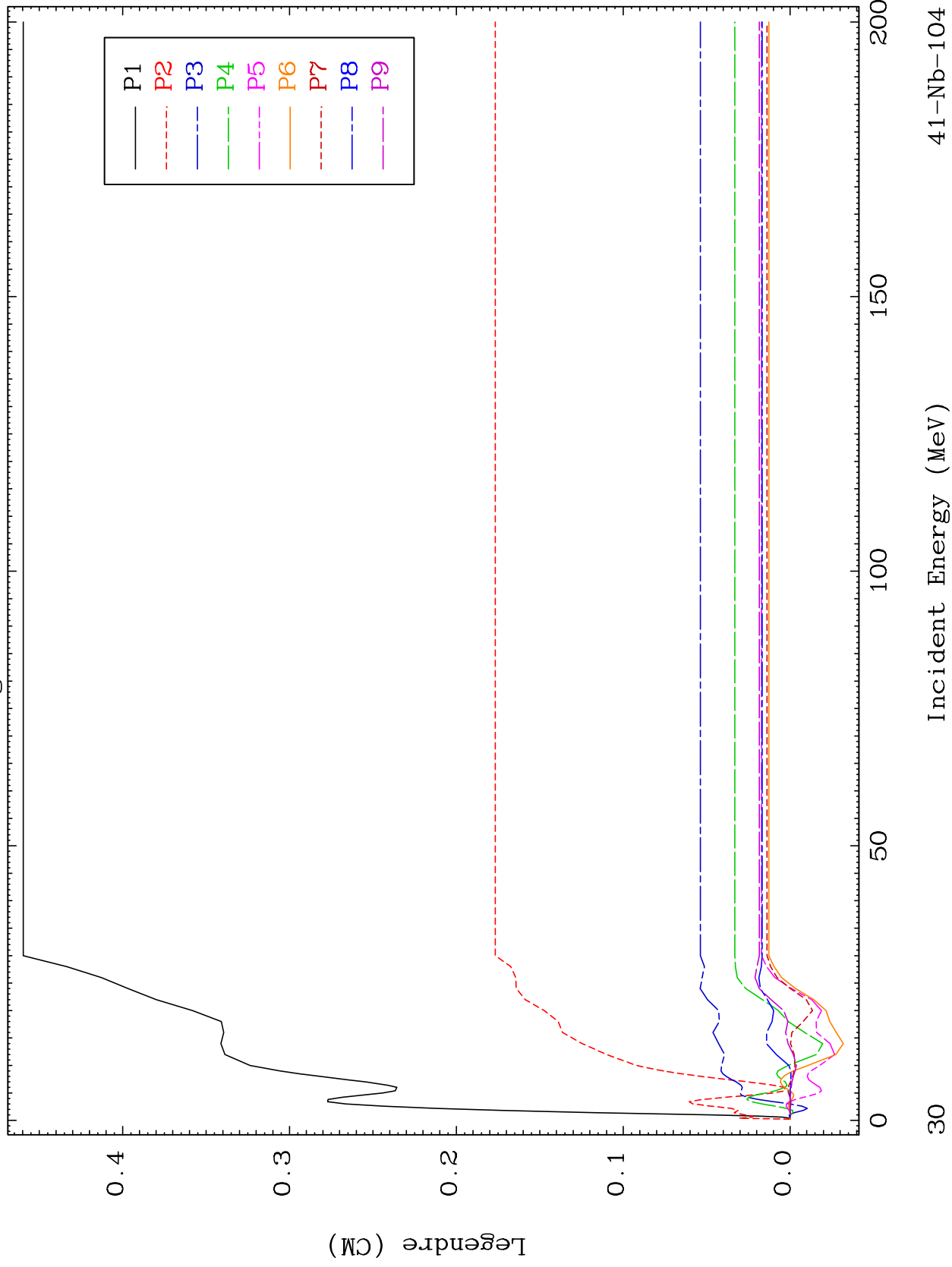
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



41-Nb-104

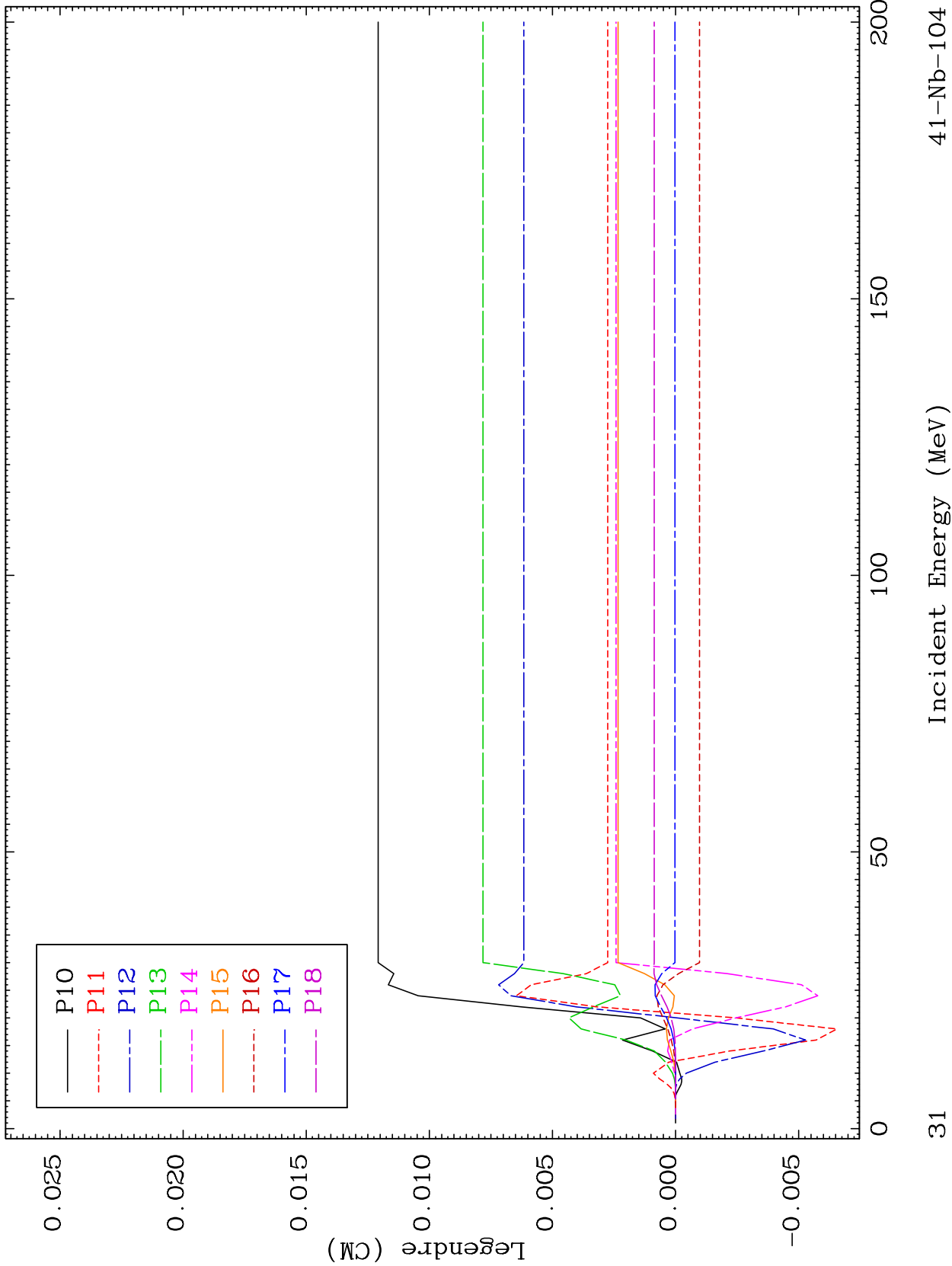
Incident Energy (MeV)

30

MAT 4158

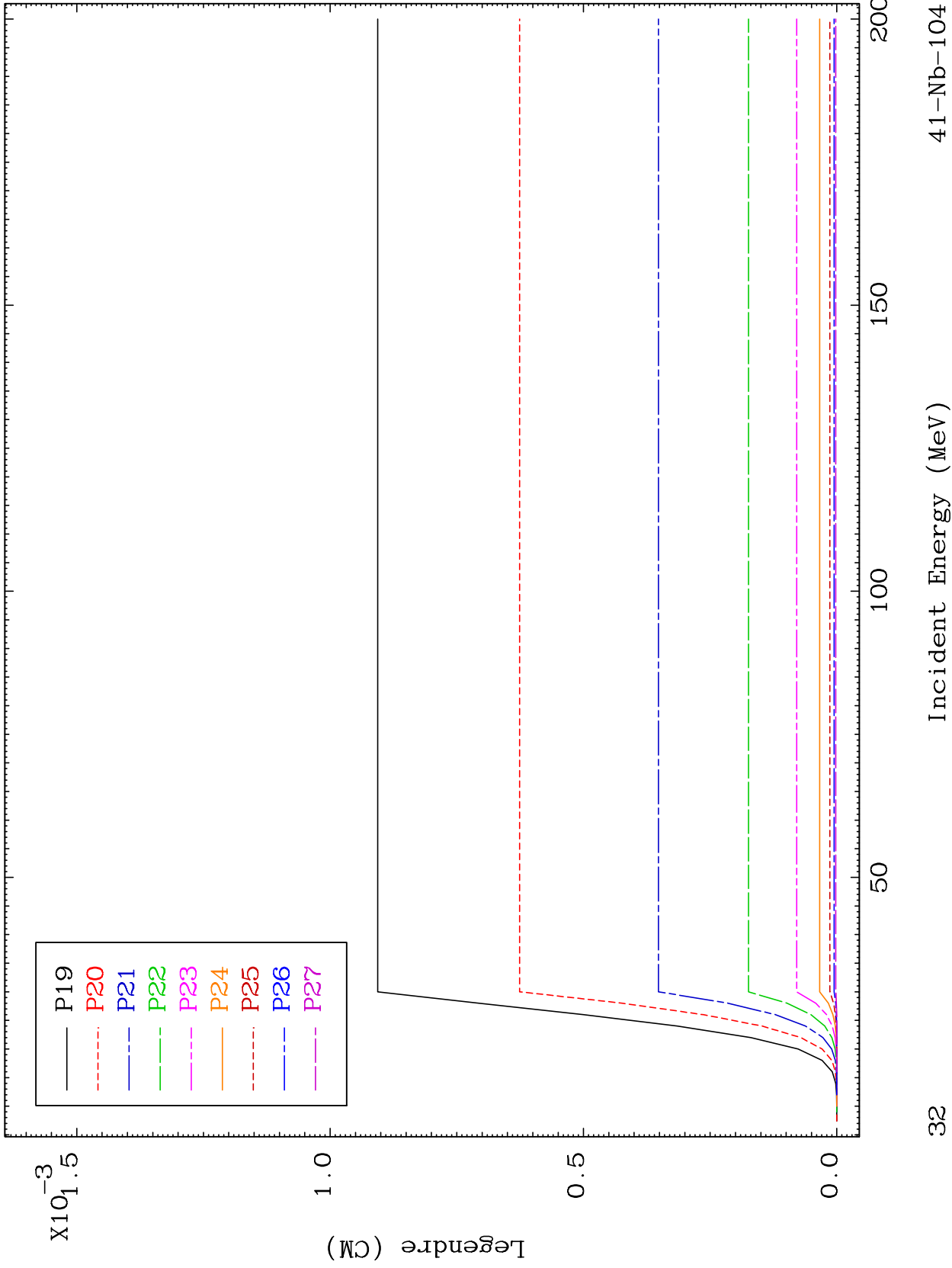
MT= 54 (n,n') Level
Legendre Coefficients

41-Nb-104



31

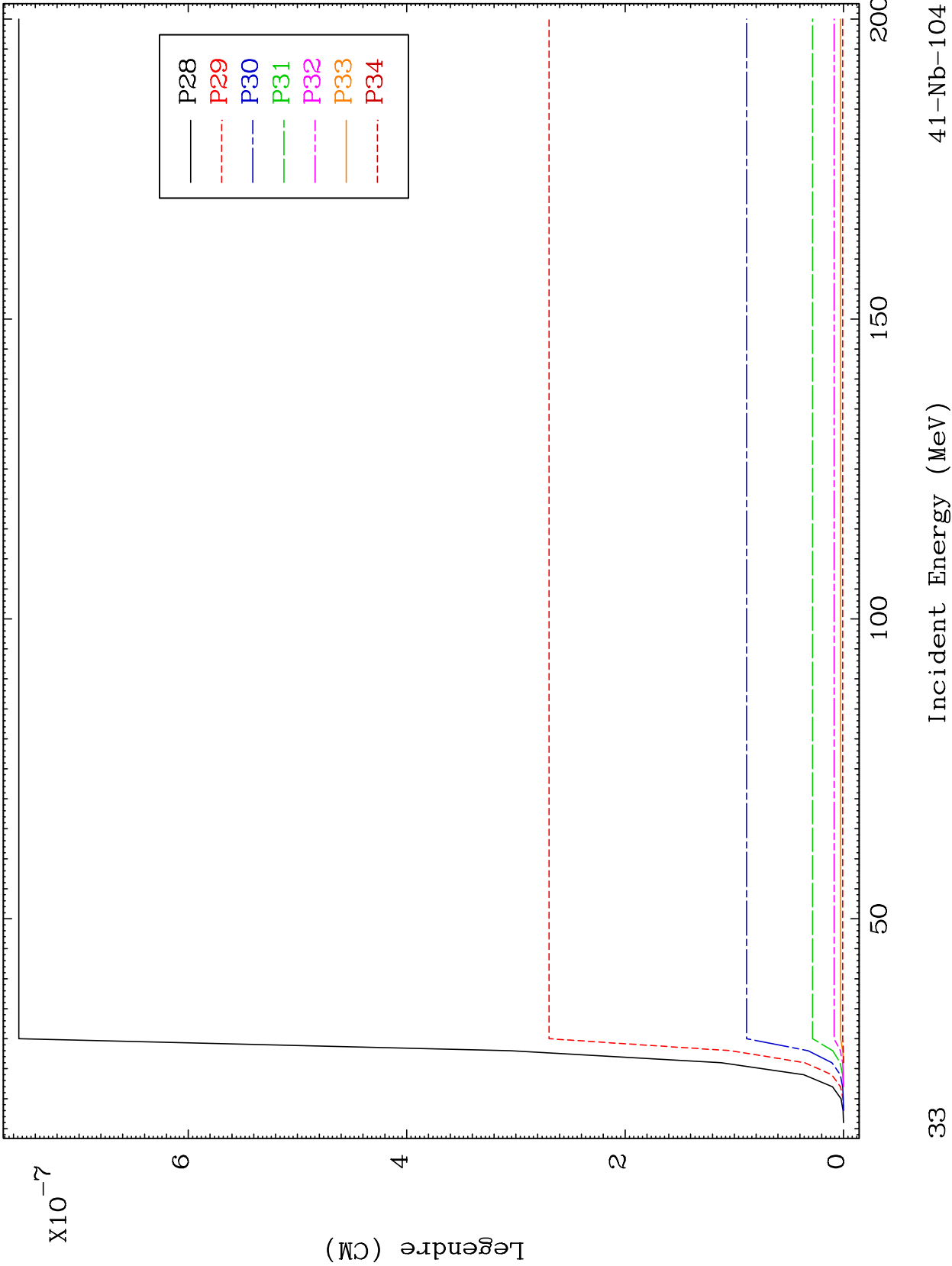
41-Nb-104



MAT 4158

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

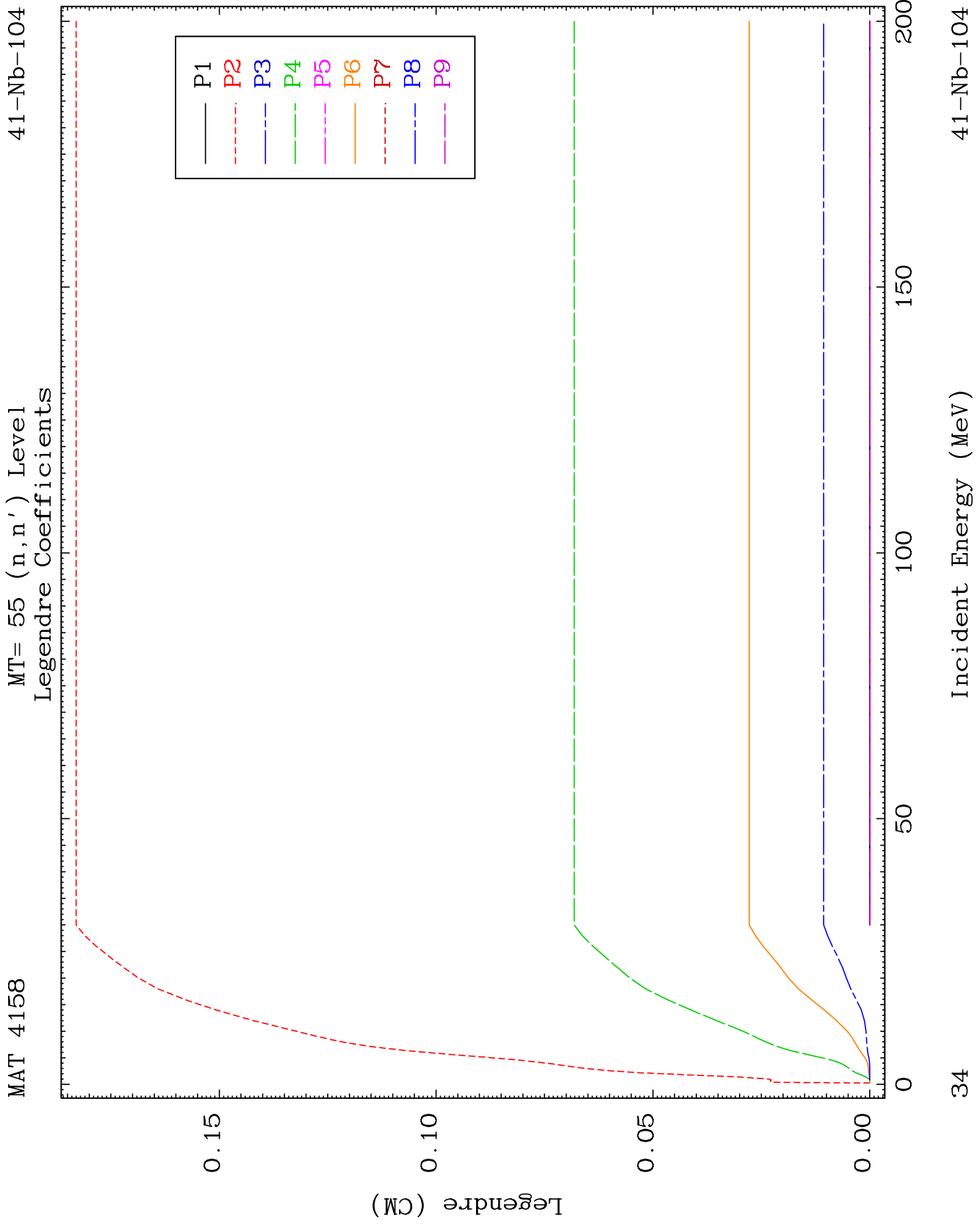
41-Nb-104



33

Incident Energy (MeV)

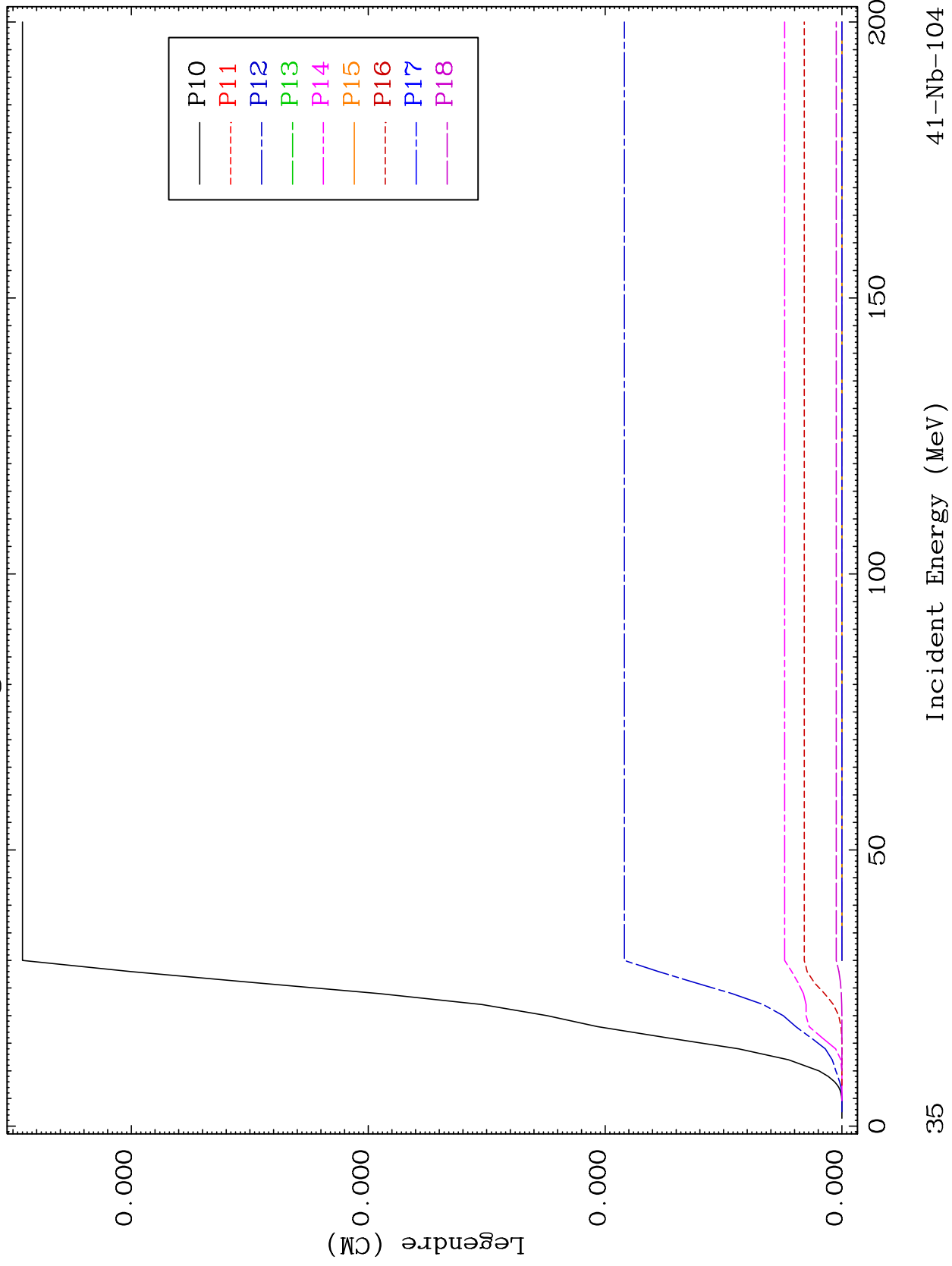
41-Nb-104



MAT 4158

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

41-Nb-104



41-Nb-104

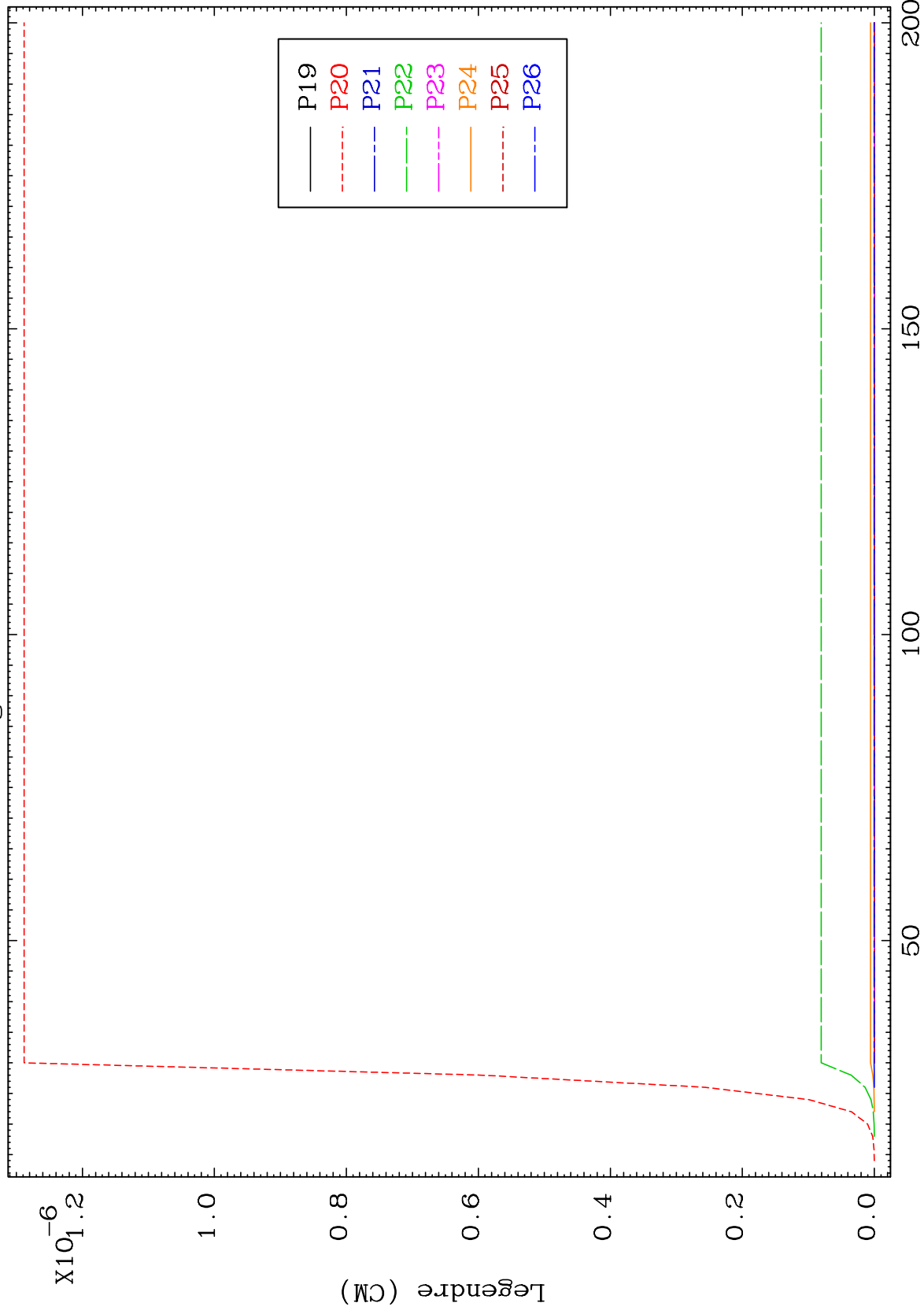
Incident Energy (MeV)

35

MAT 4158

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

41-Nb-104



36

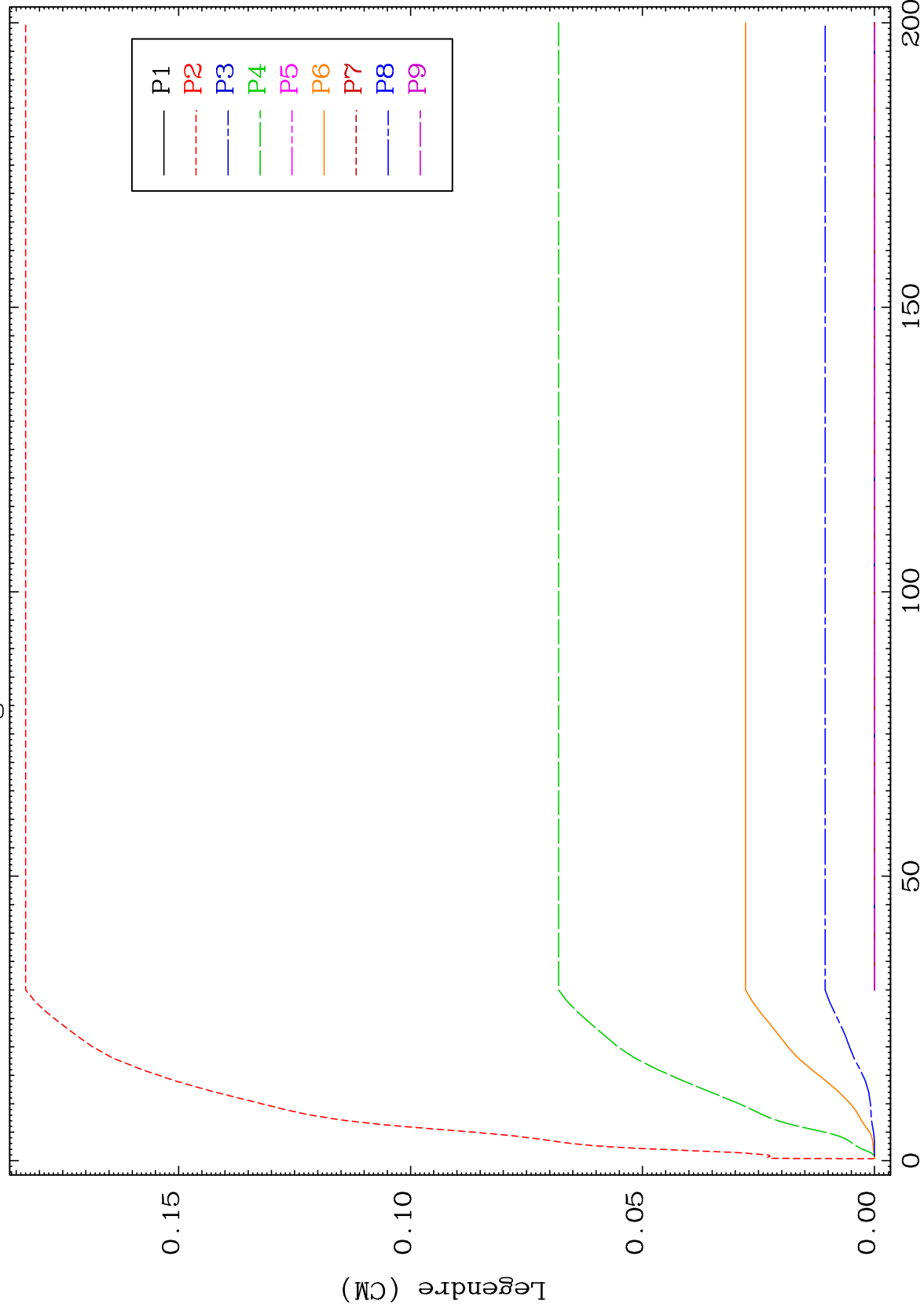
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



37

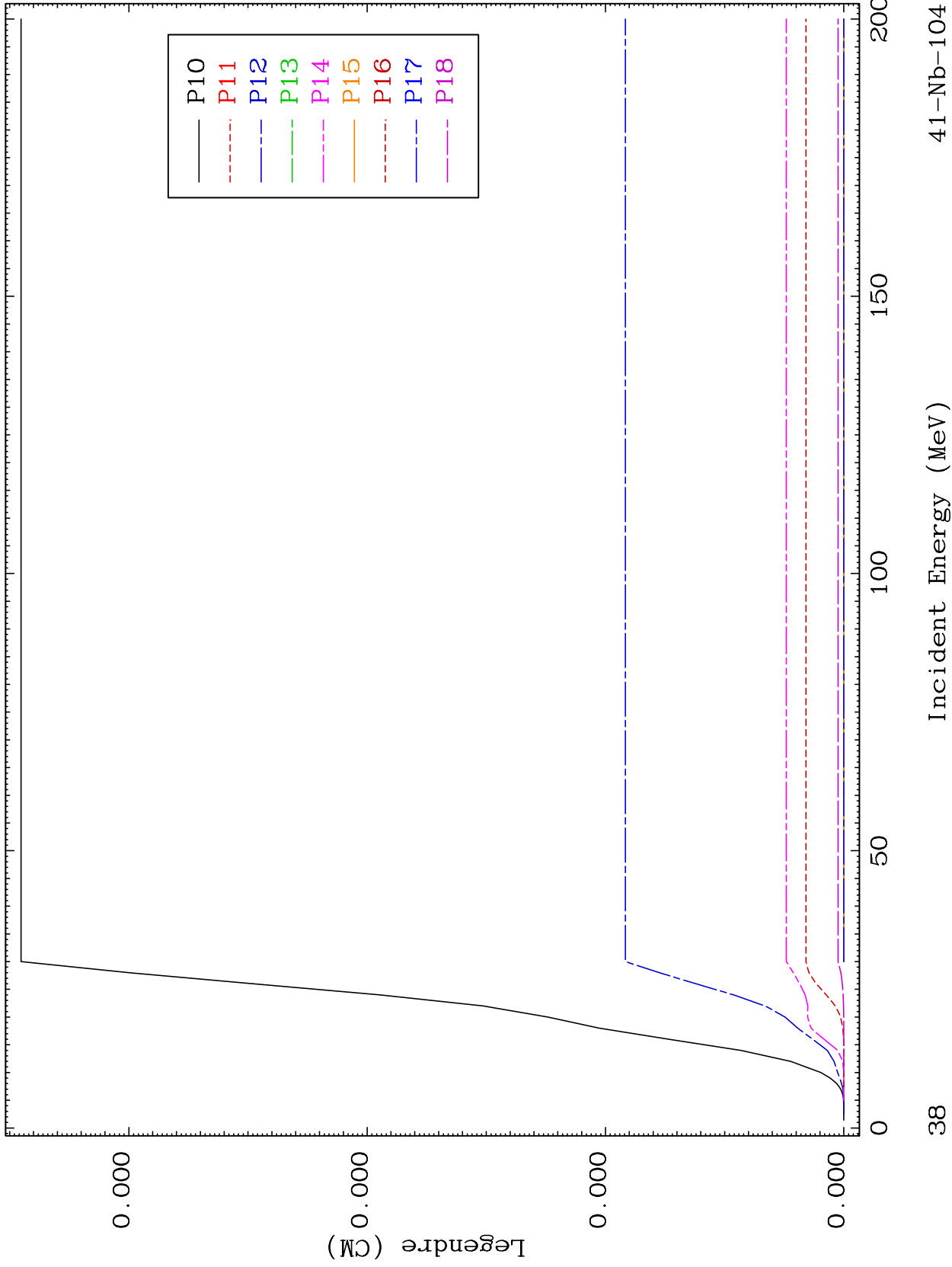
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

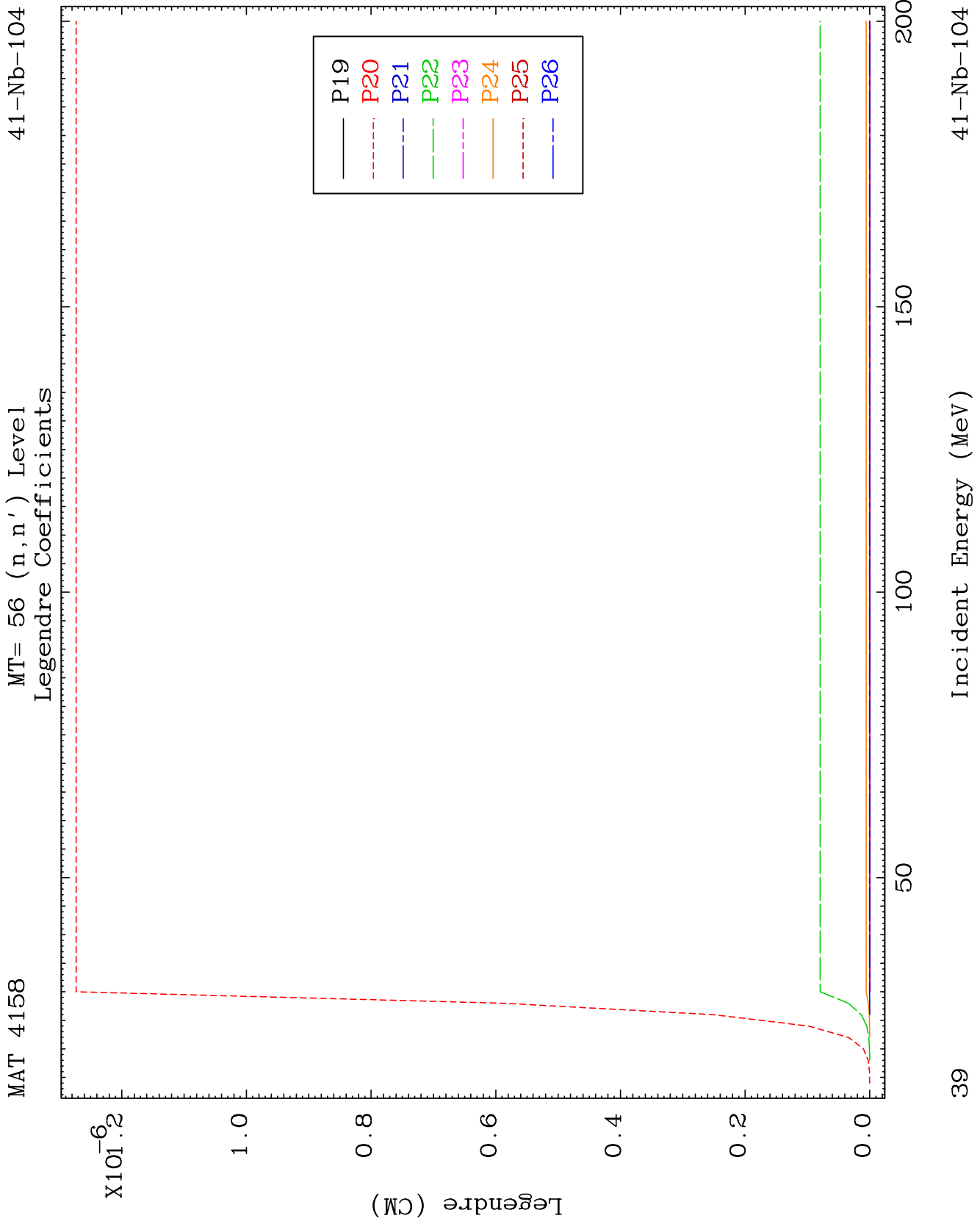
41-Nb-104

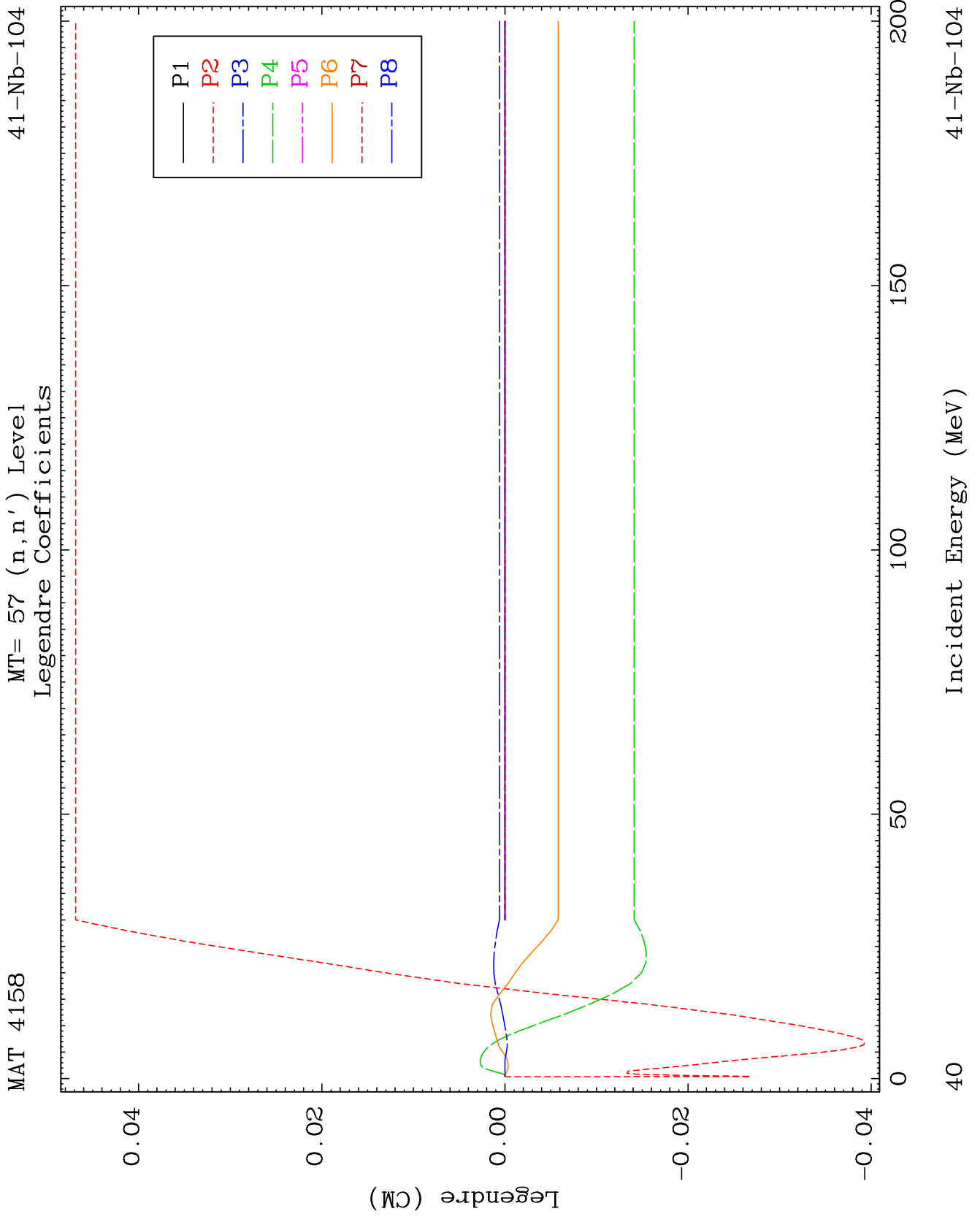


38

Incident Energy (MeV)

41-Nb-104

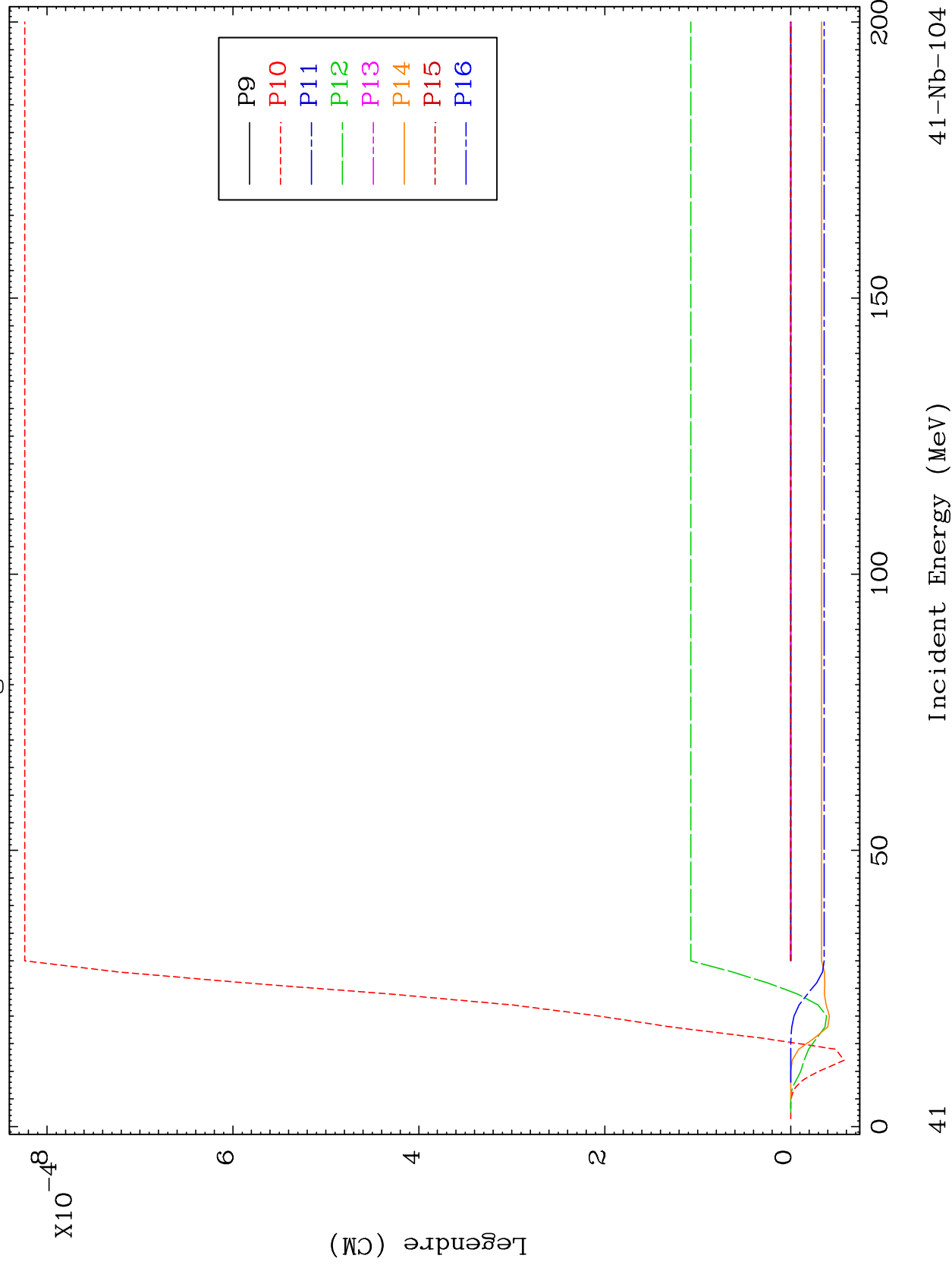




MAT 4158

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

41-Nb-104



41

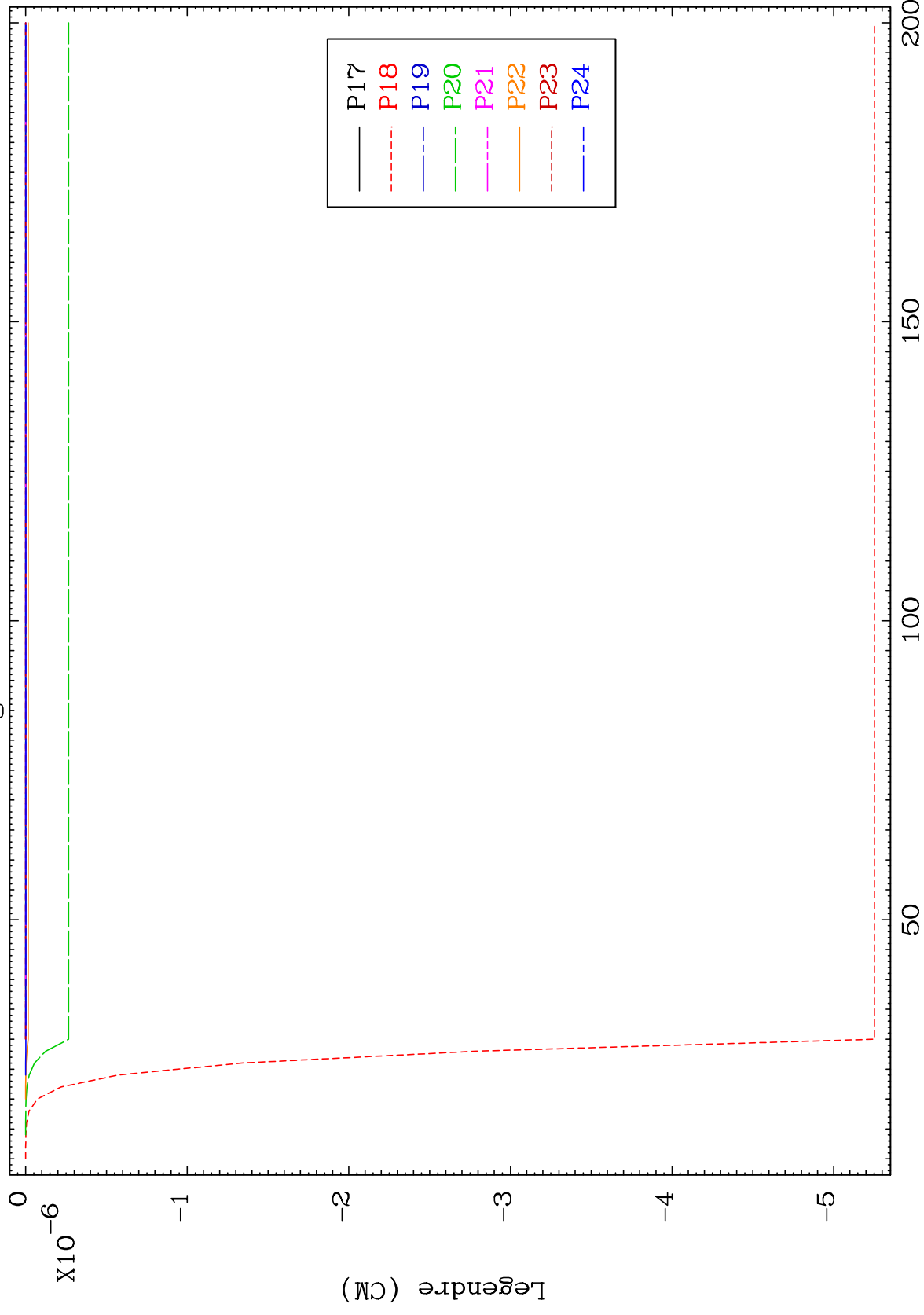
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



42

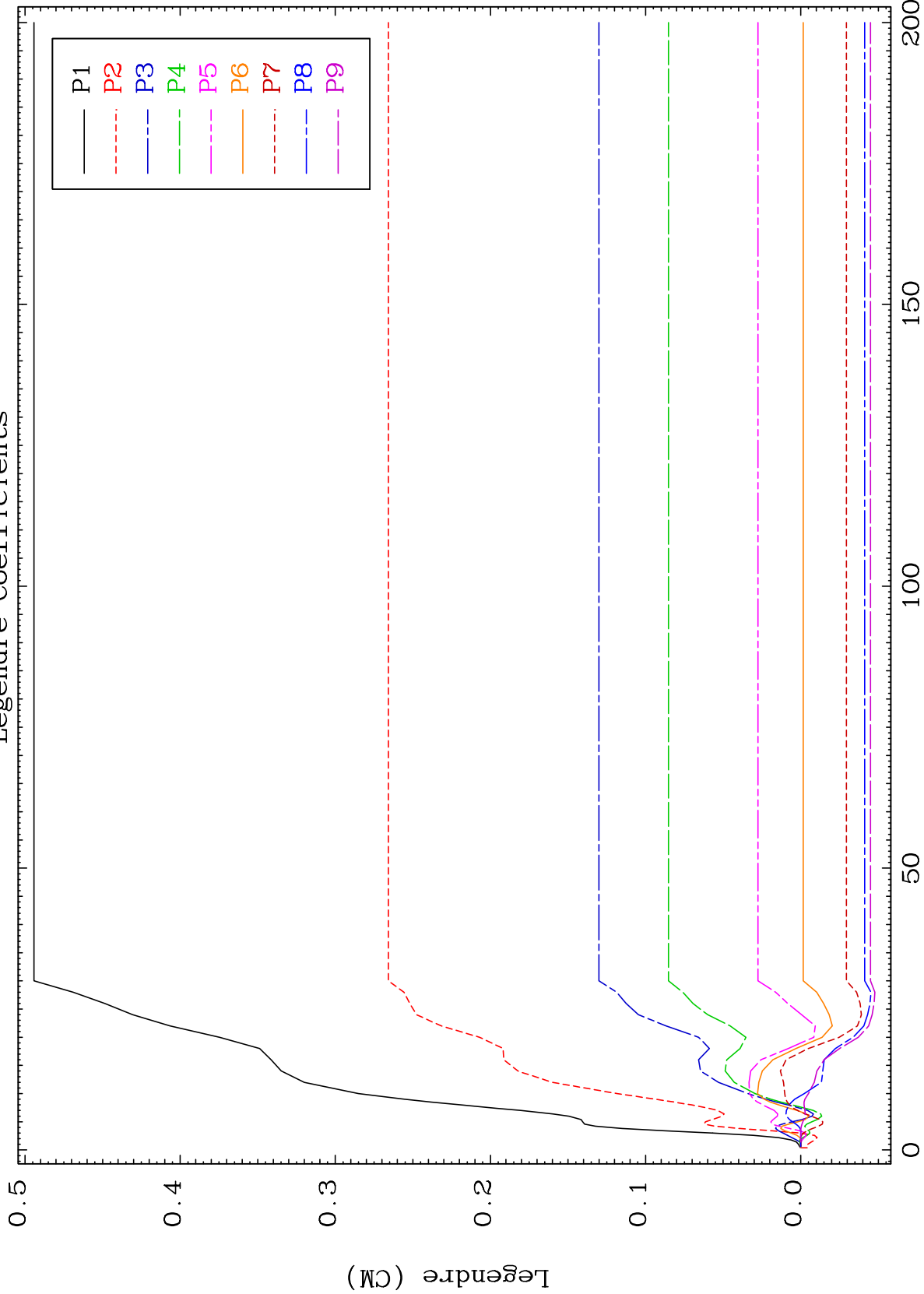
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



43

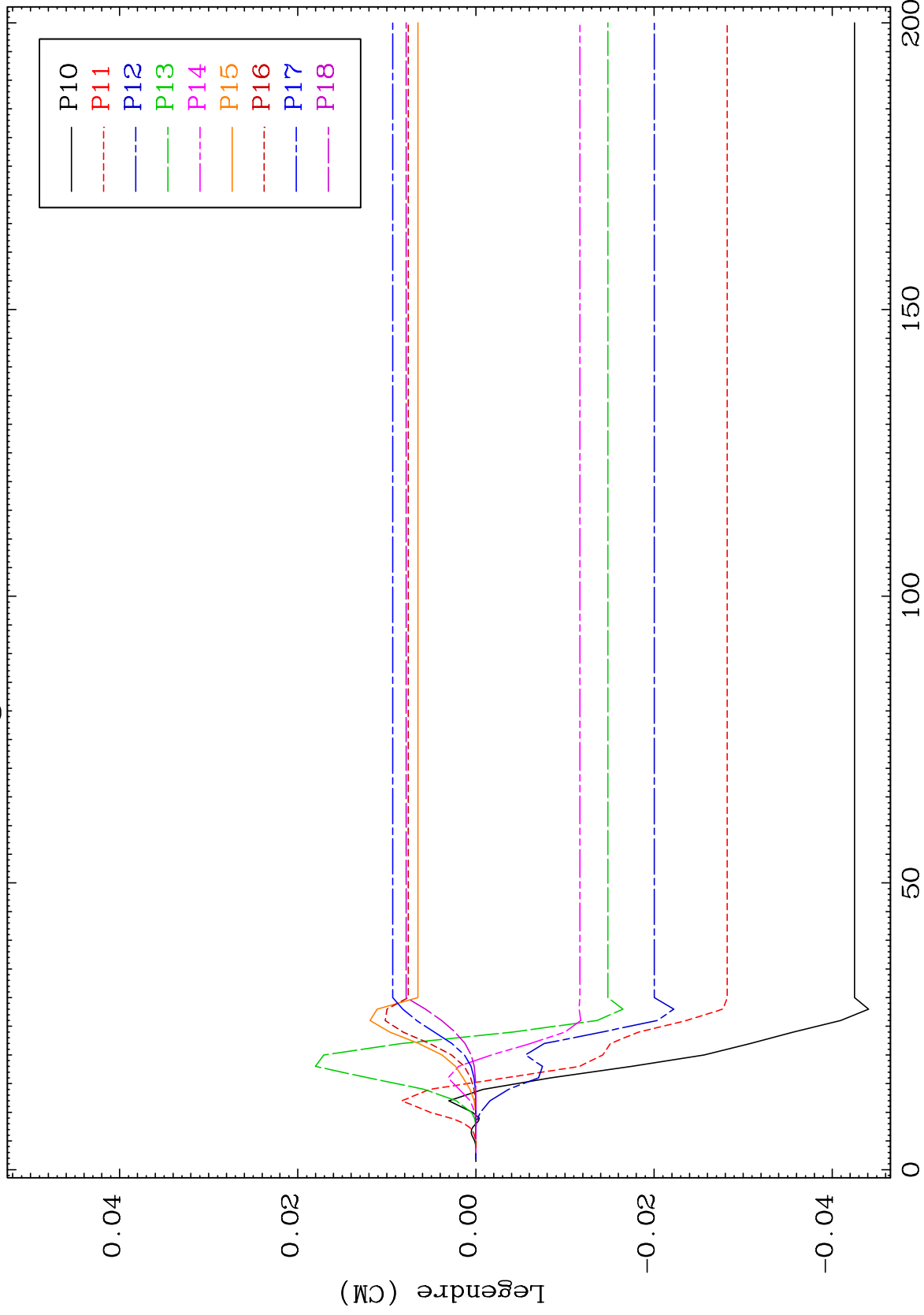
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



44

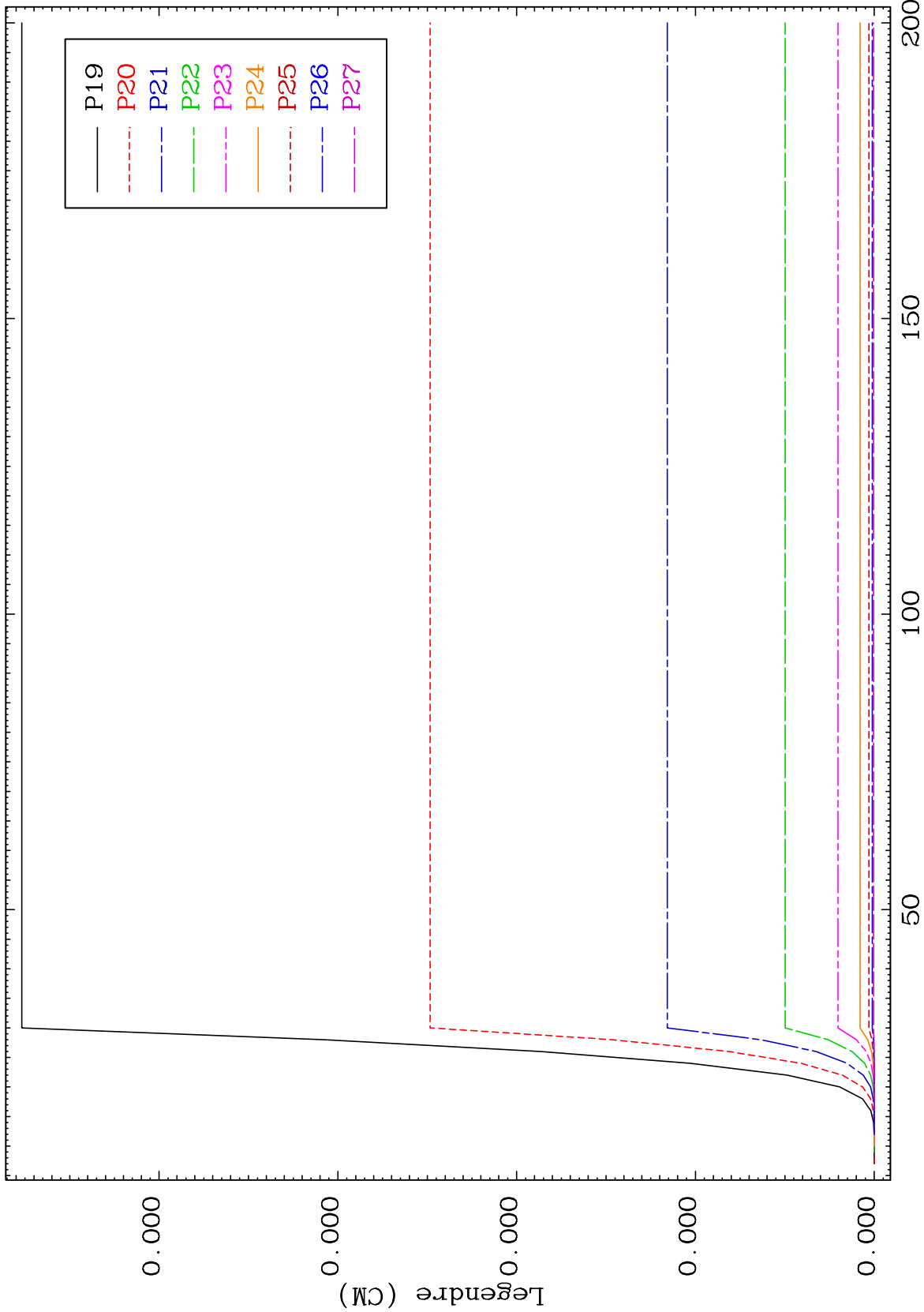
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



45

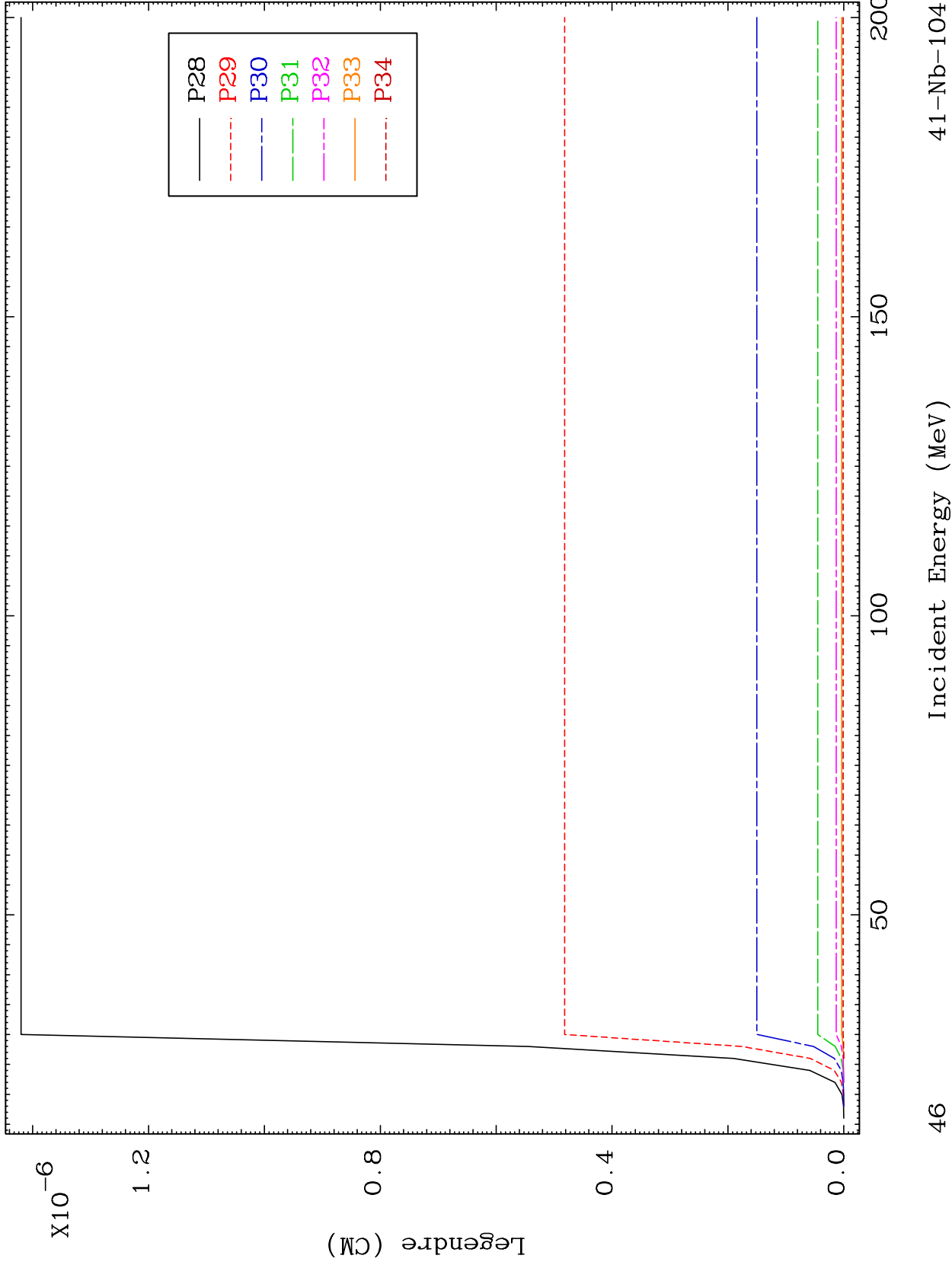
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

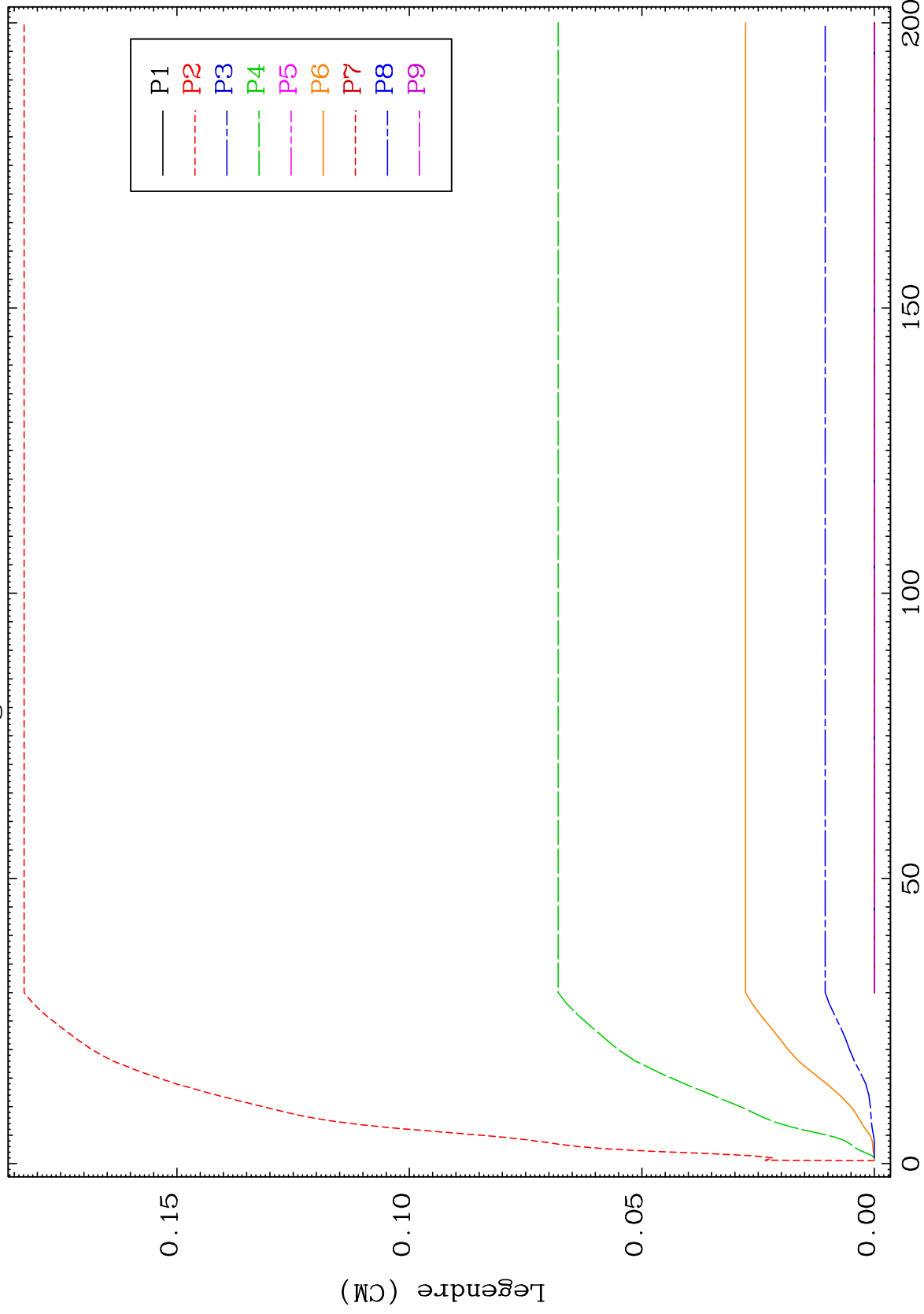
41-Nb-104



MAT 4158

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

41-Nb-104



47

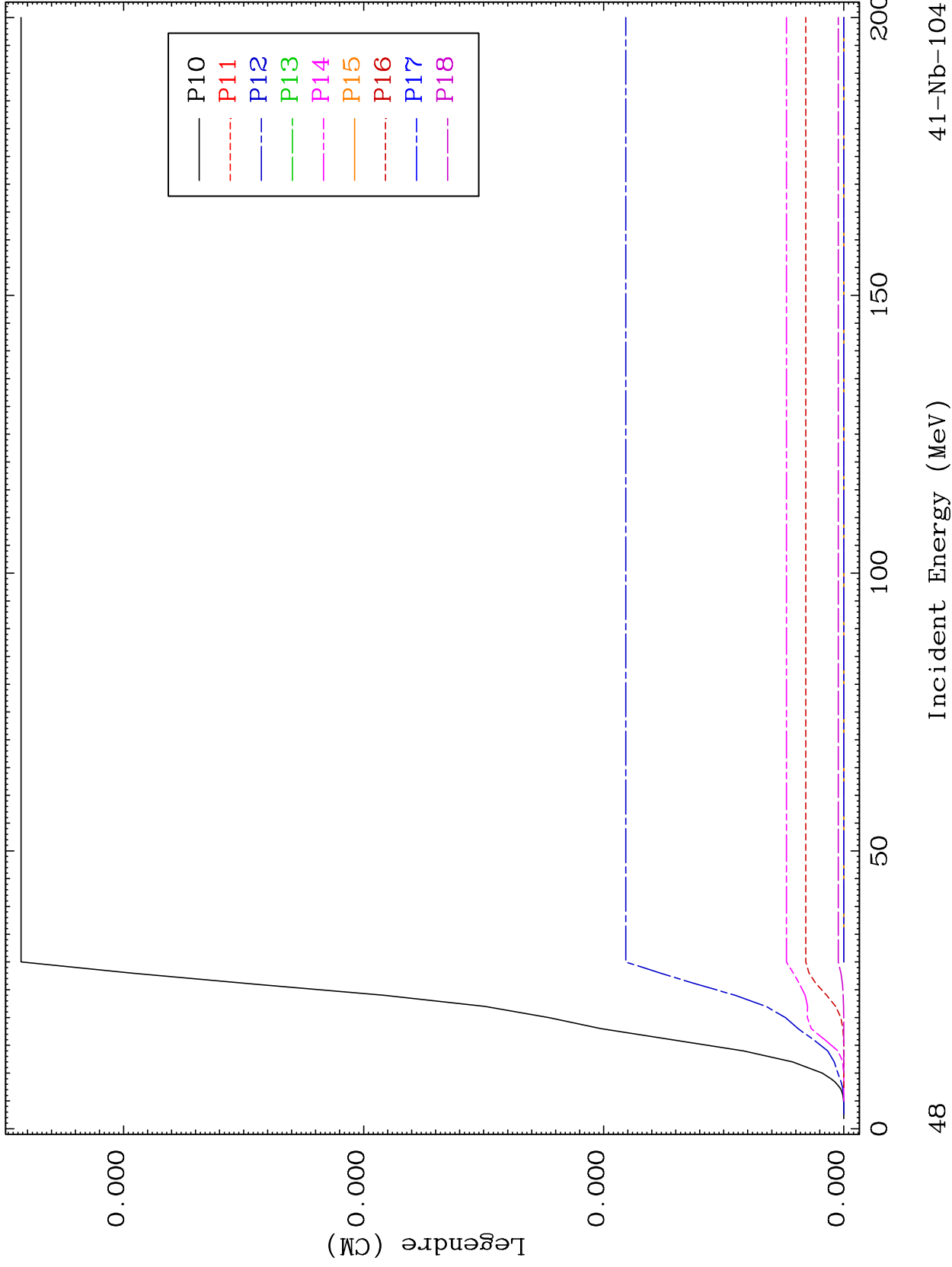
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



48

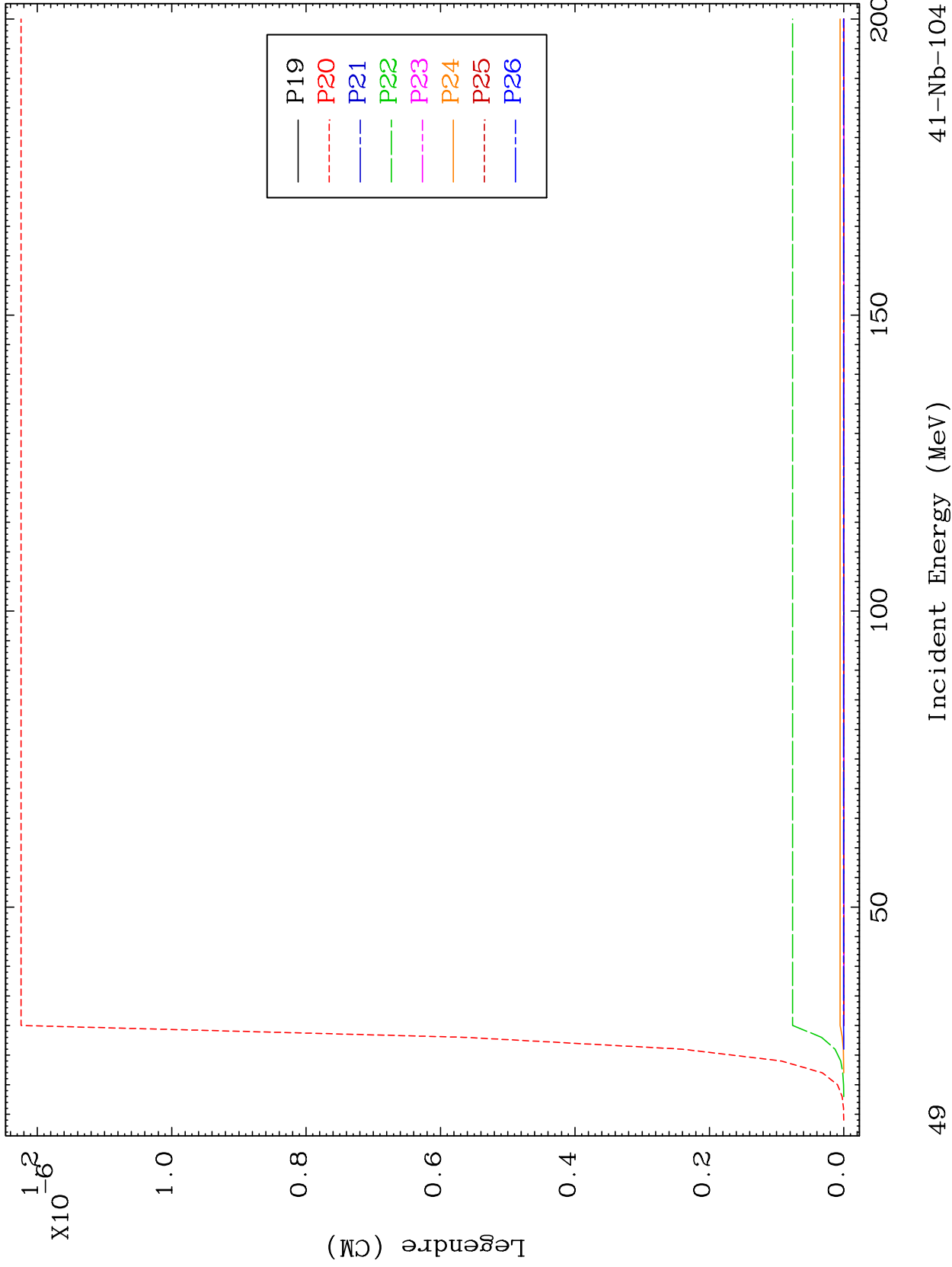
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



49

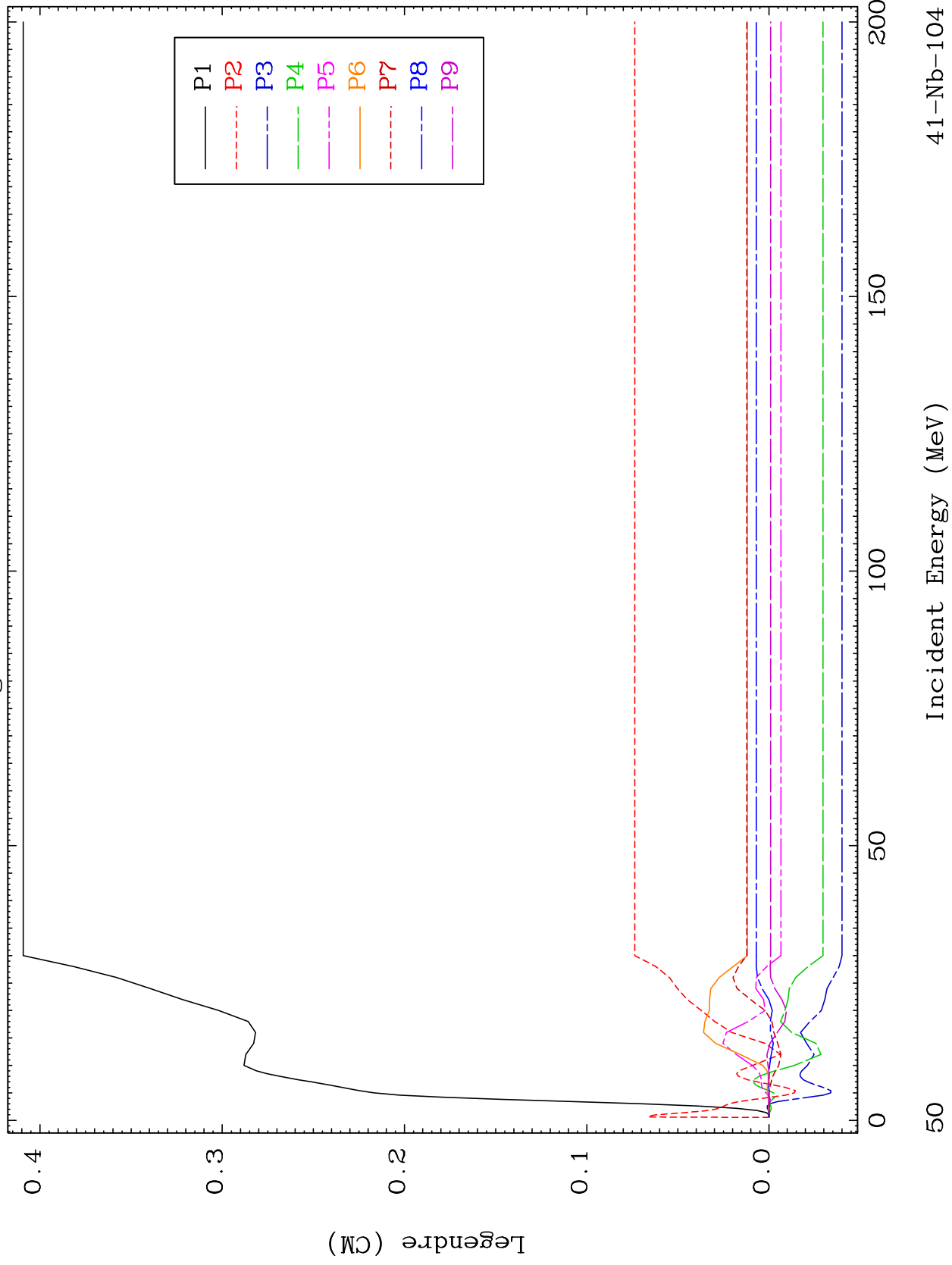
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104

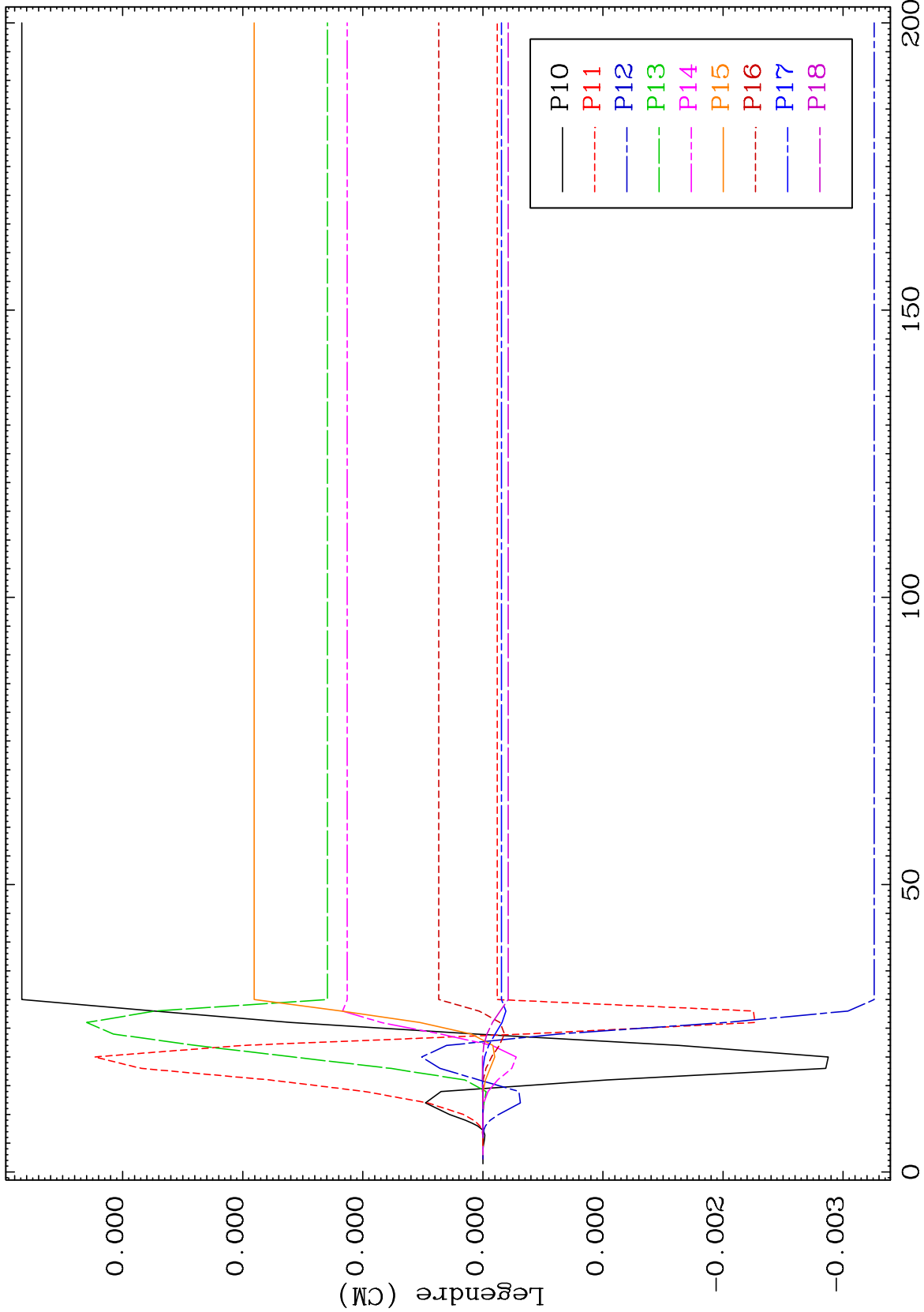


41-Nb-104

MAT 4158

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

41-Nb-104



51

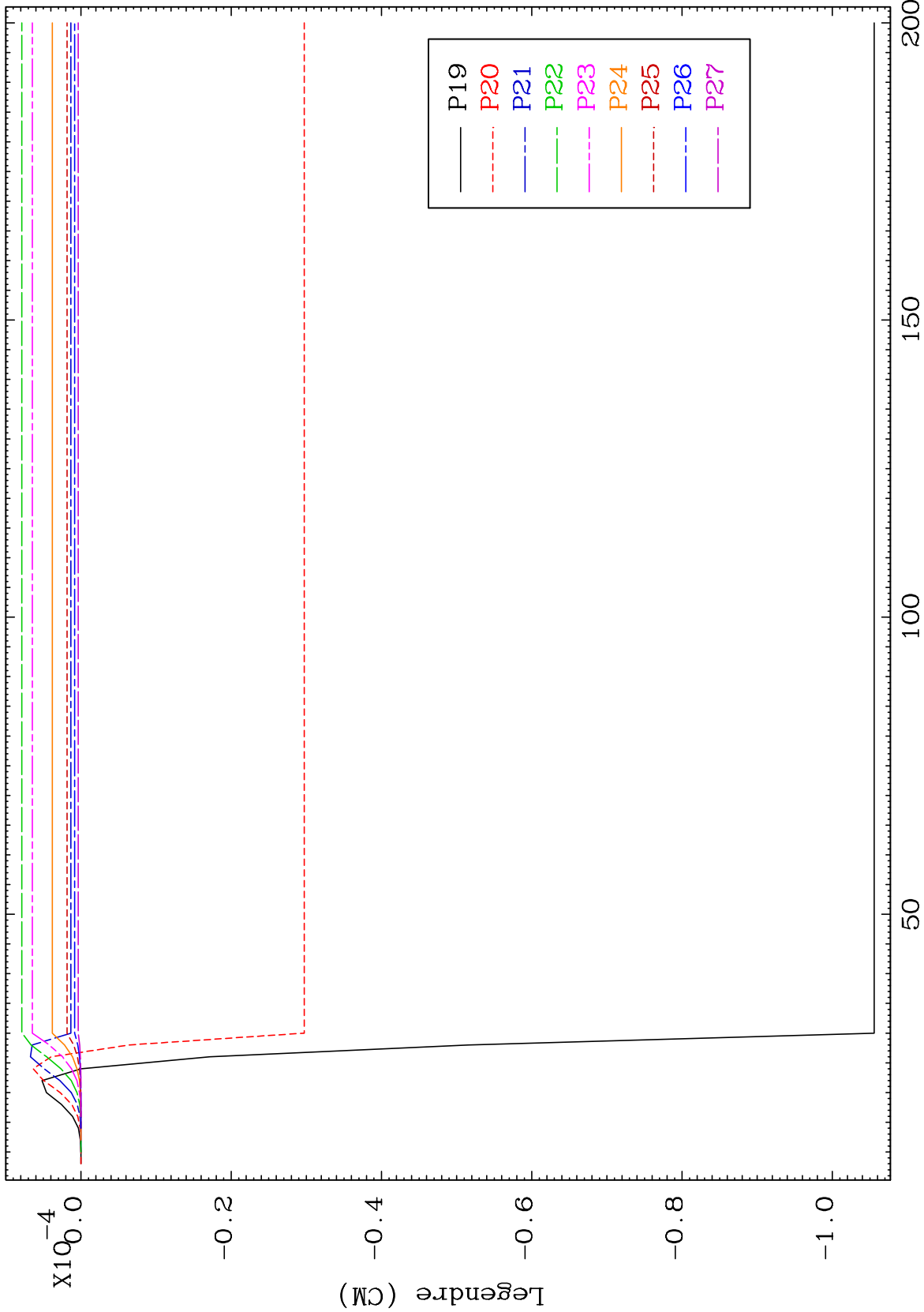
Incident Energy (MeV)

41-Nb-104

MAT 4158

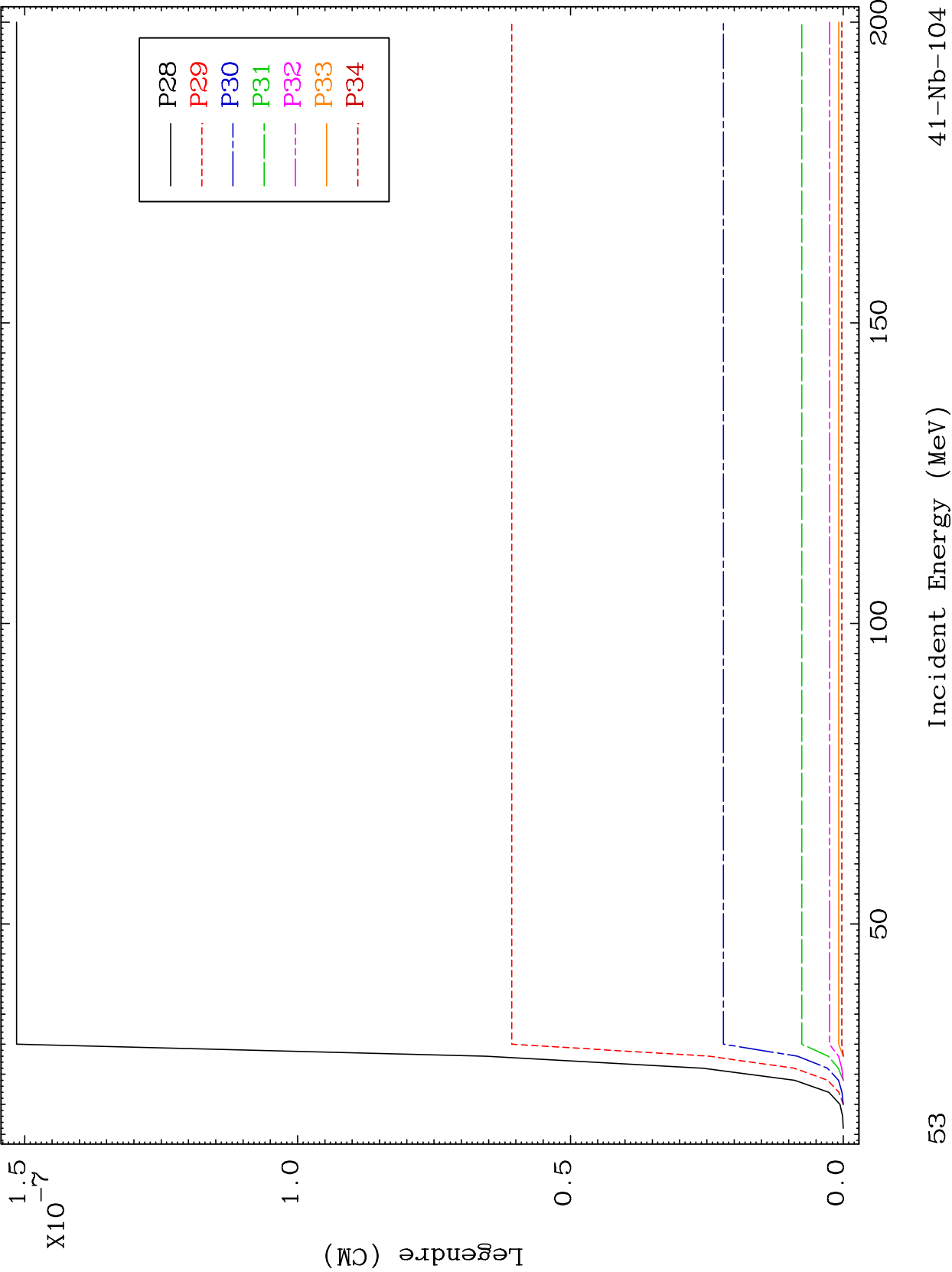
MT= 60 (n,n') Level
Legendre Coefficients

41-Nb-104



52

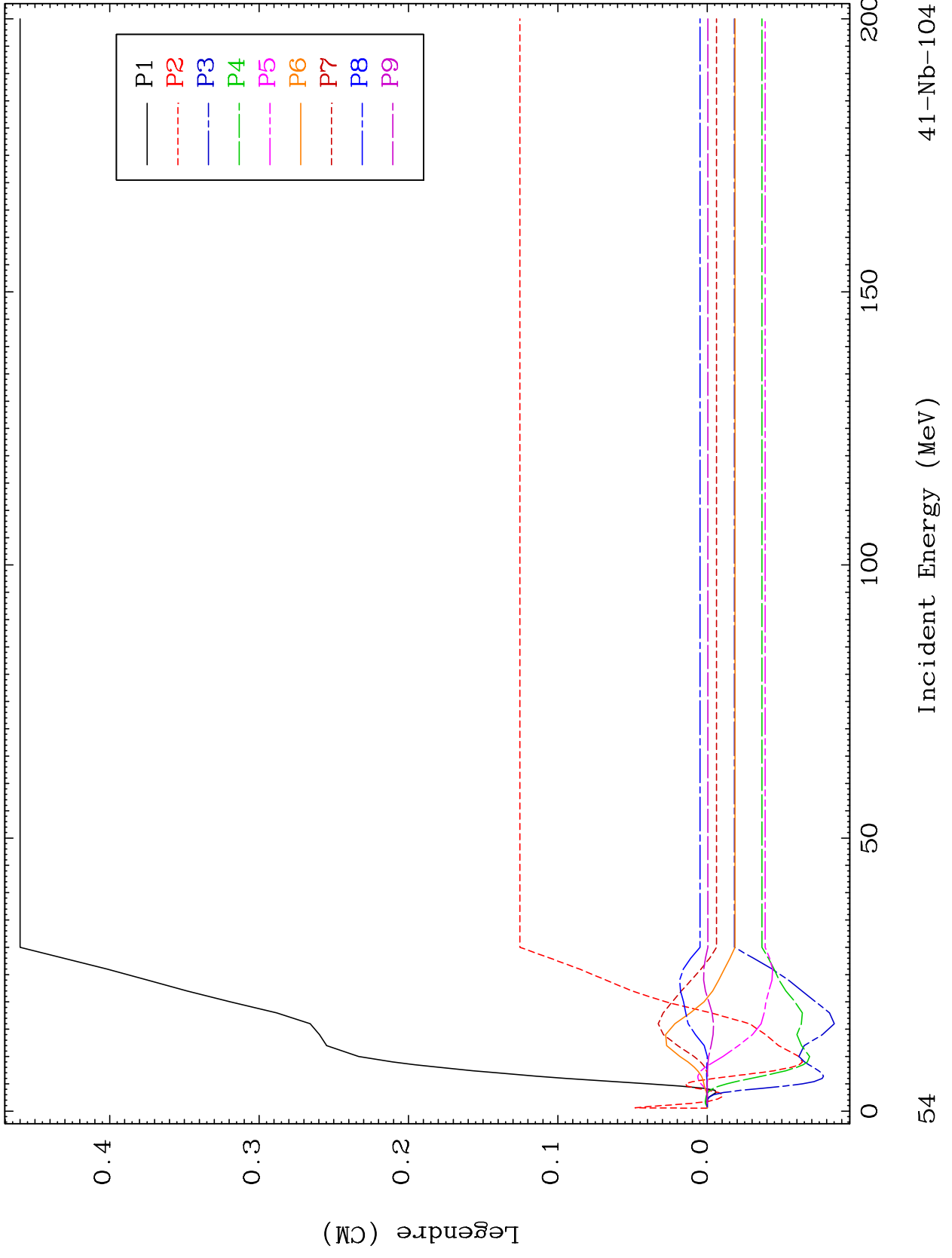
41-Nb-104



MAT 4158

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

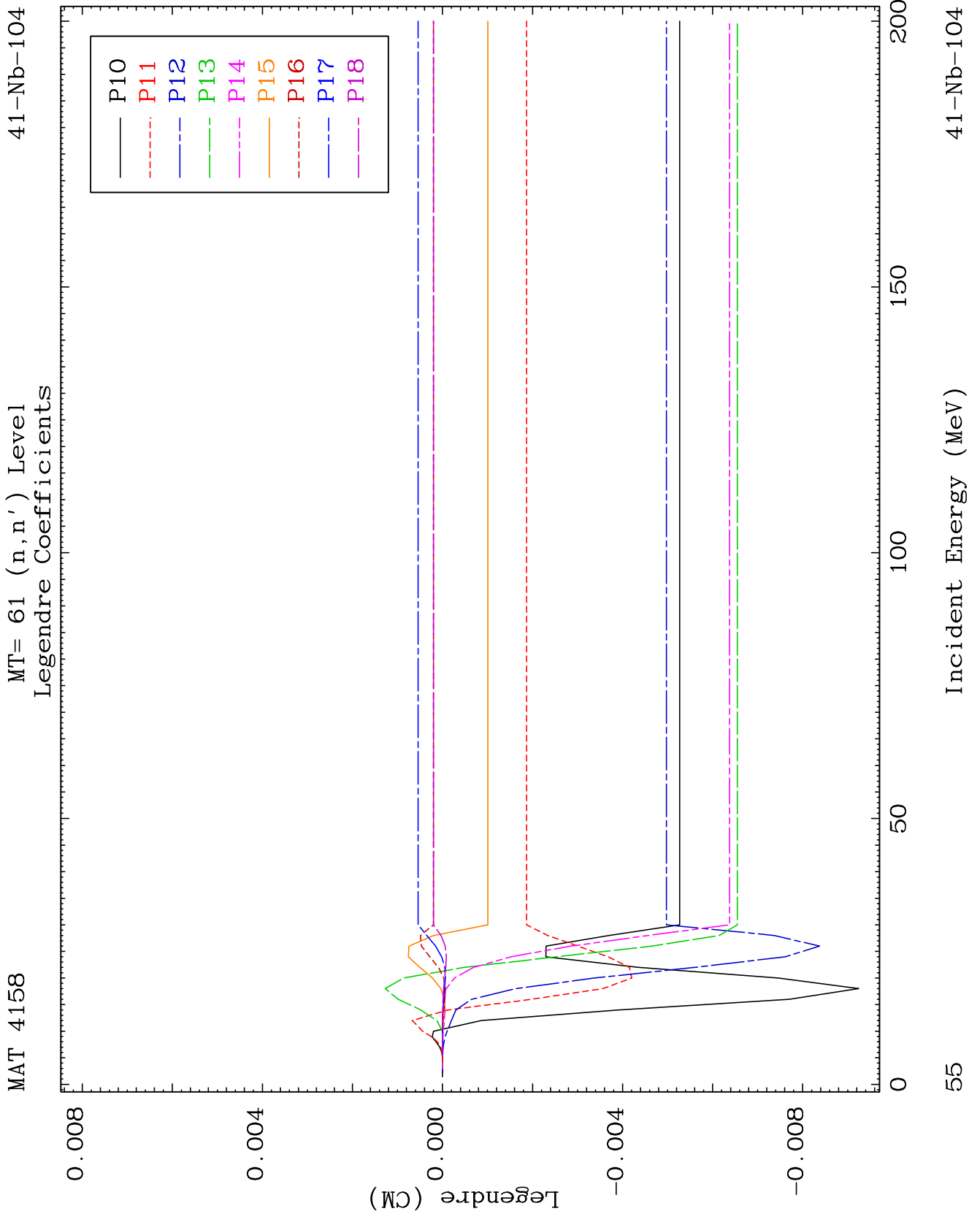
41-Nb-104



54

Incident Energy (MeV)

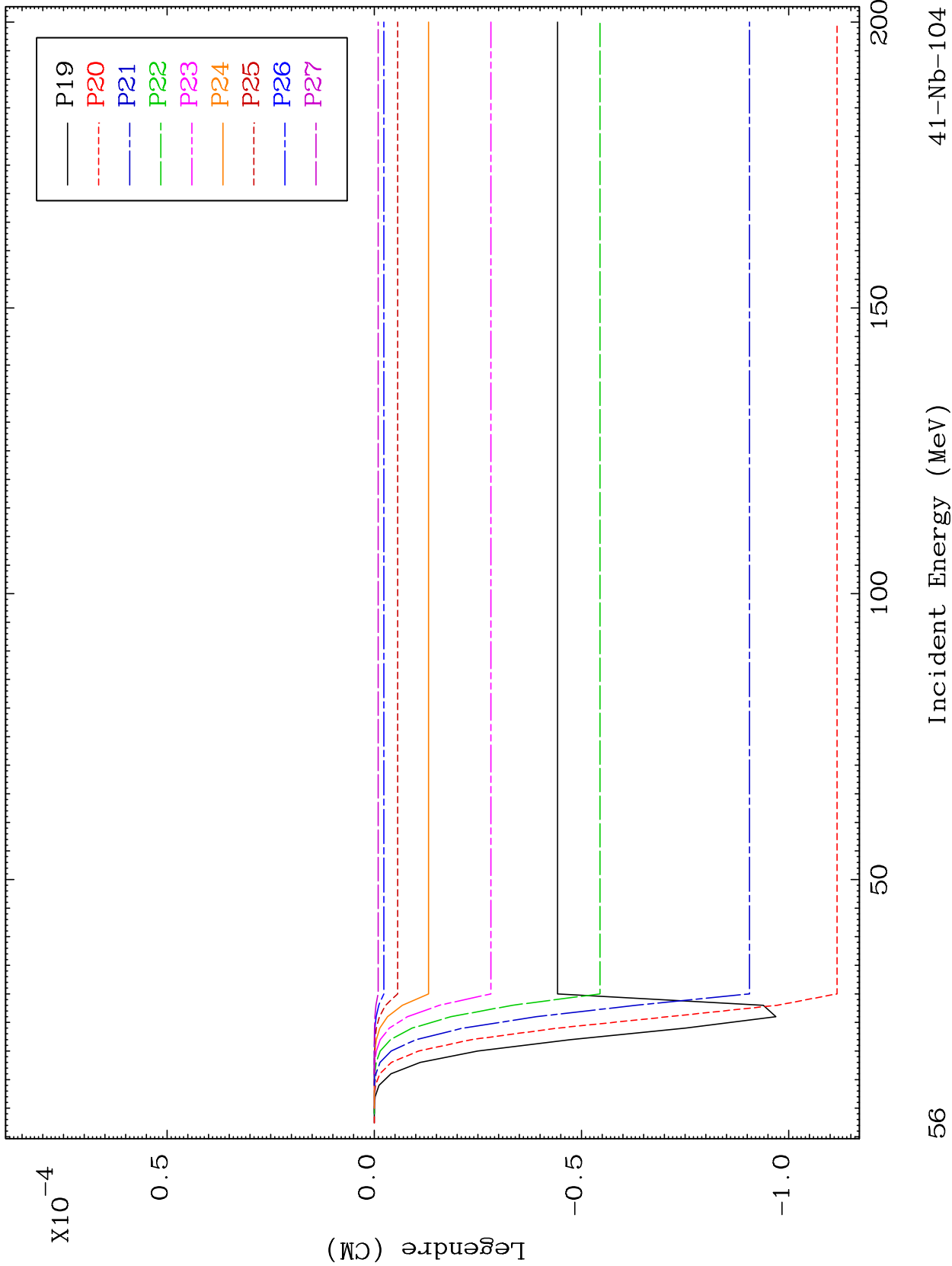
41-Nb-104



MAT 4158

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

41-Nb-104



56

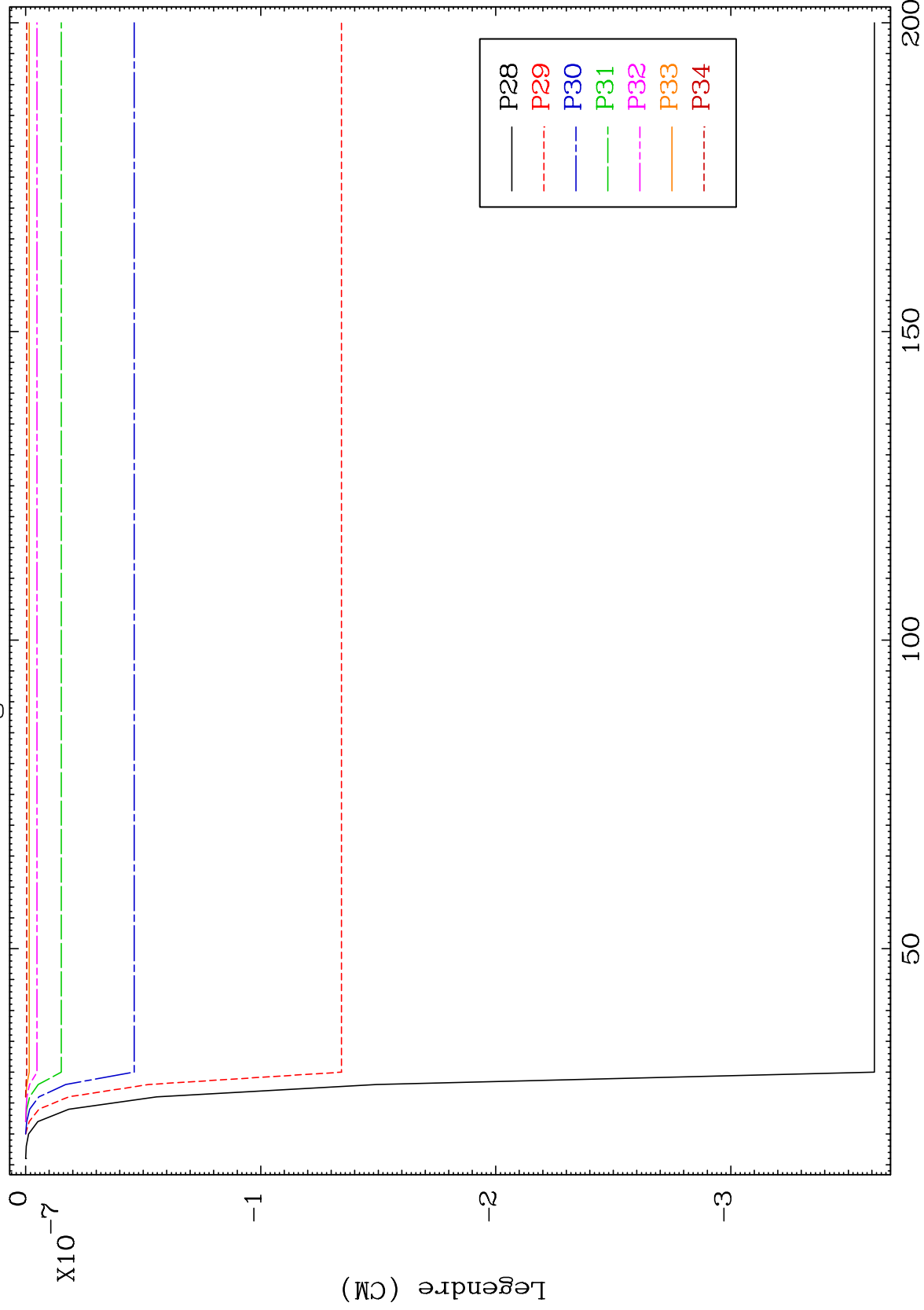
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



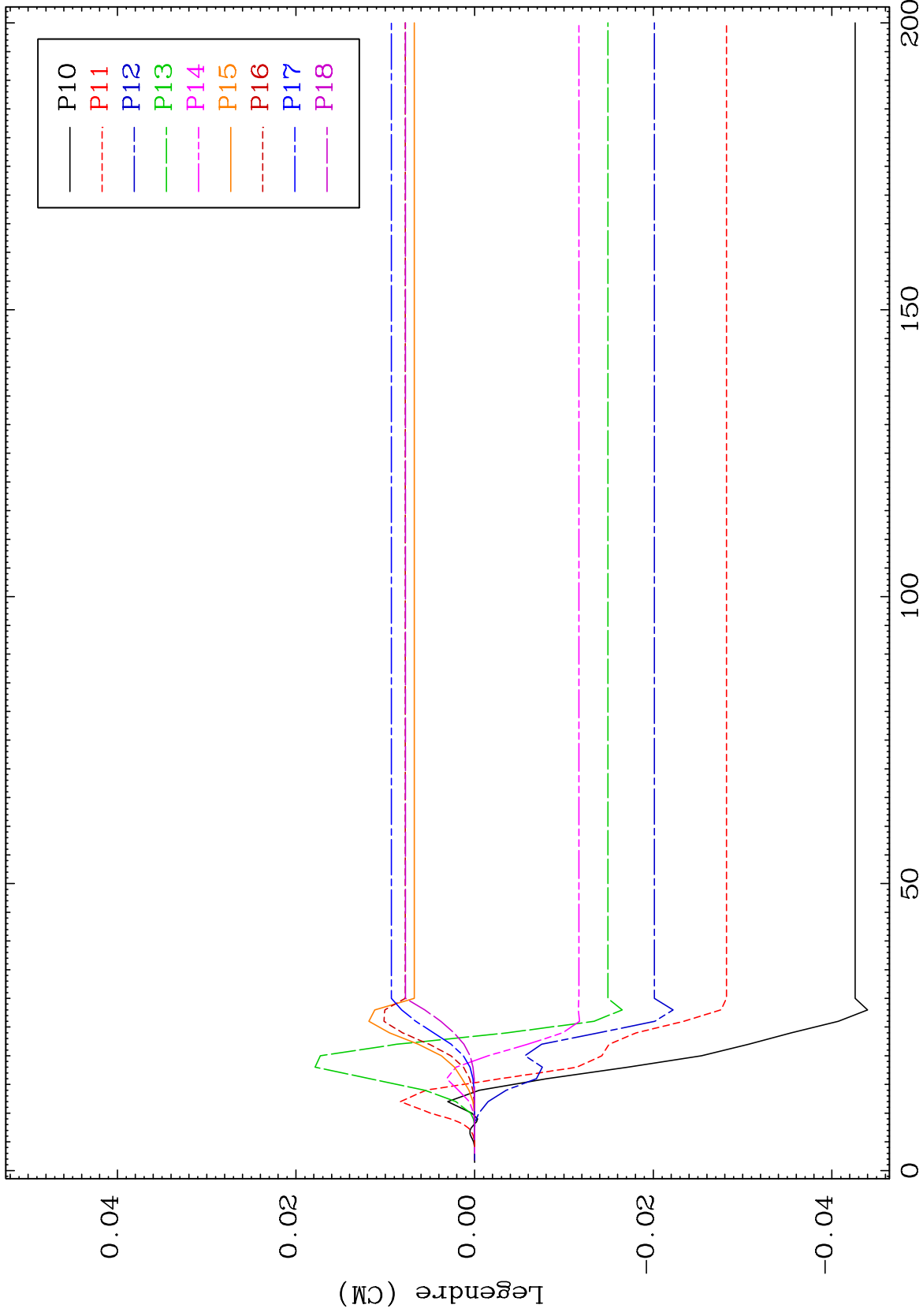
57

41-Nb-104

MAT 4158

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

41-Nb-104



59

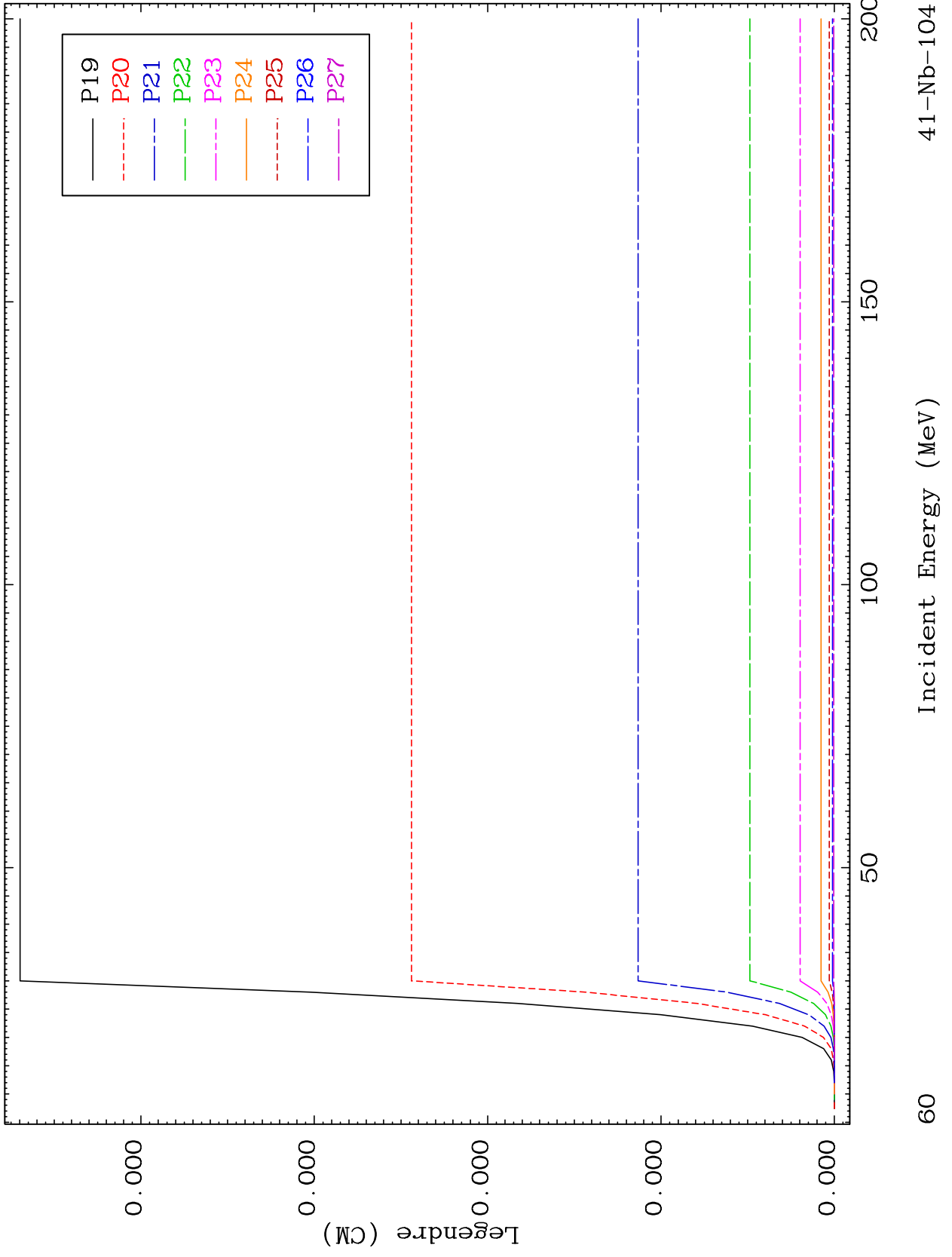
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



60

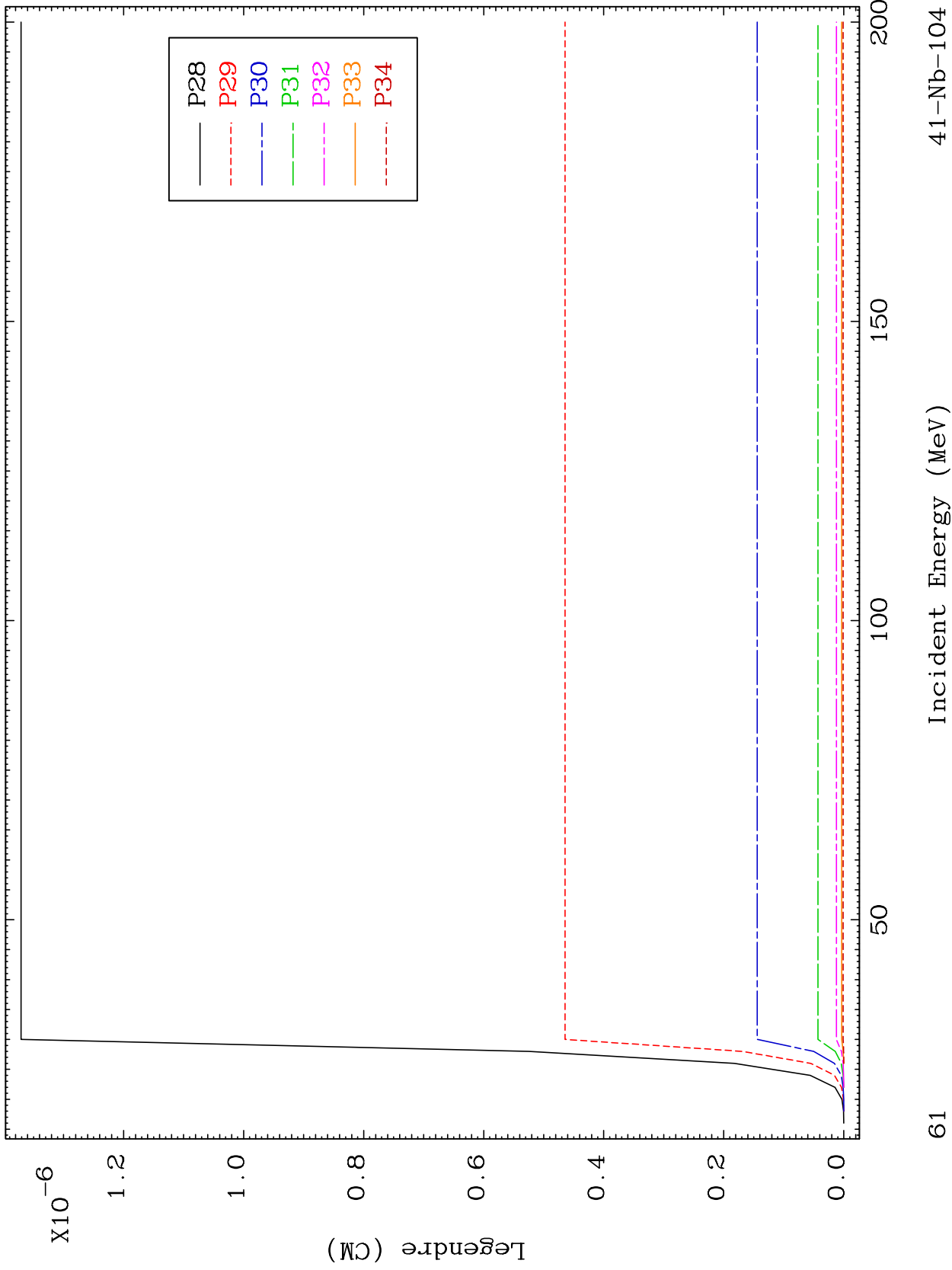
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

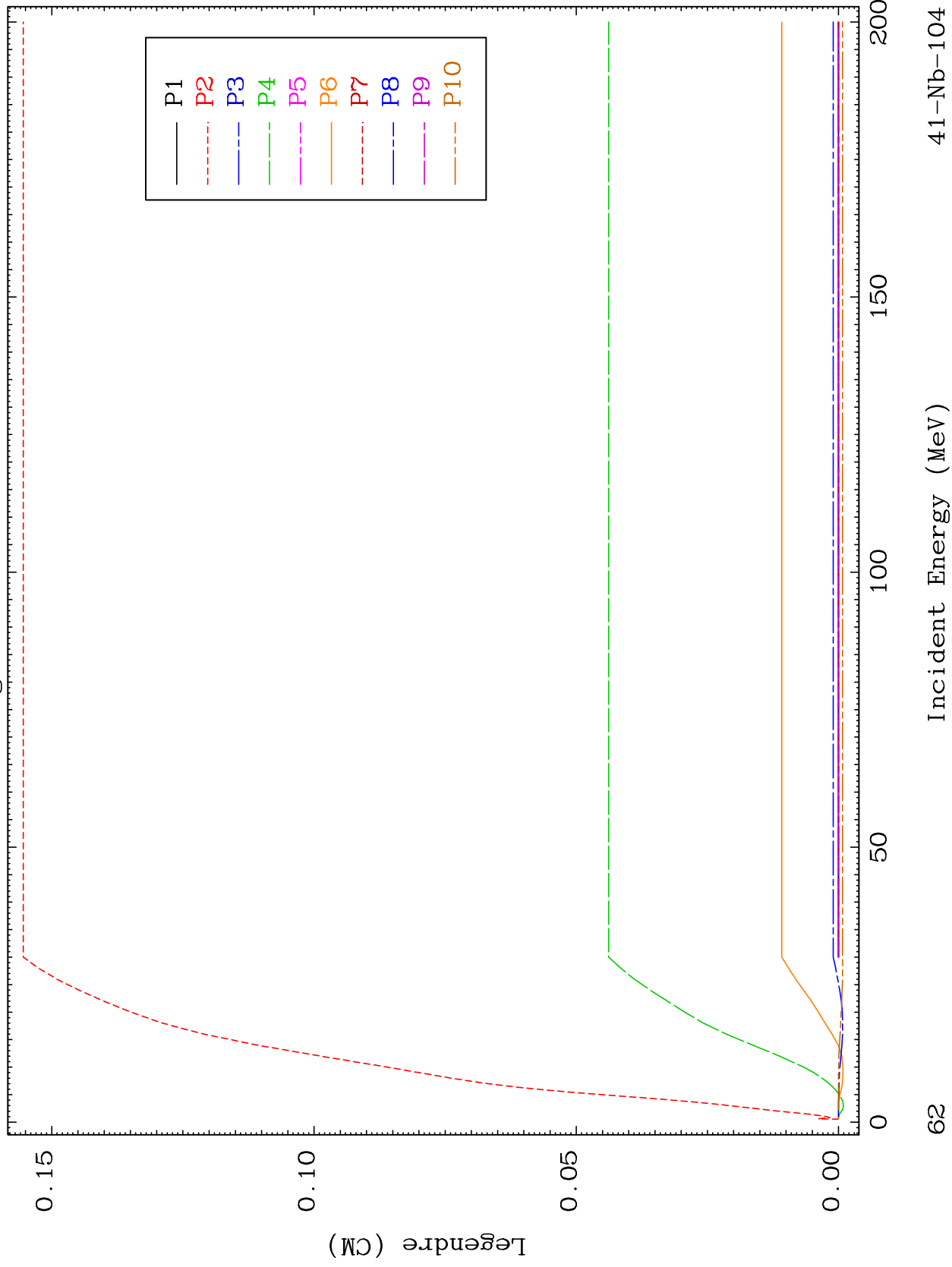
41-Nb-104



MAT 4158

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

41-Nb-104



41-Nb-104

Incident Energy (MeV)

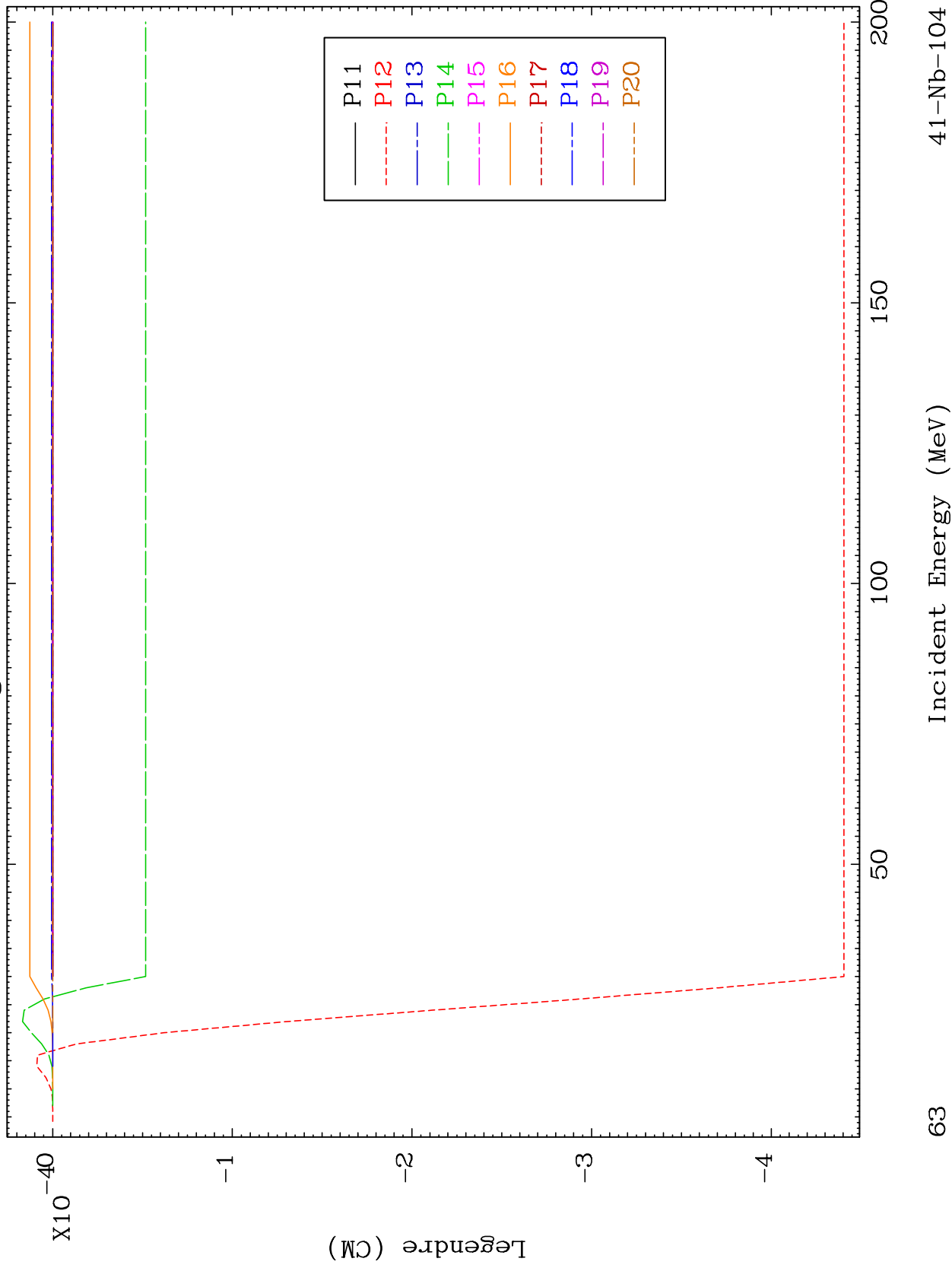
62

MAT 4158

MT= 63 (n,n') Level

41-Nb-104

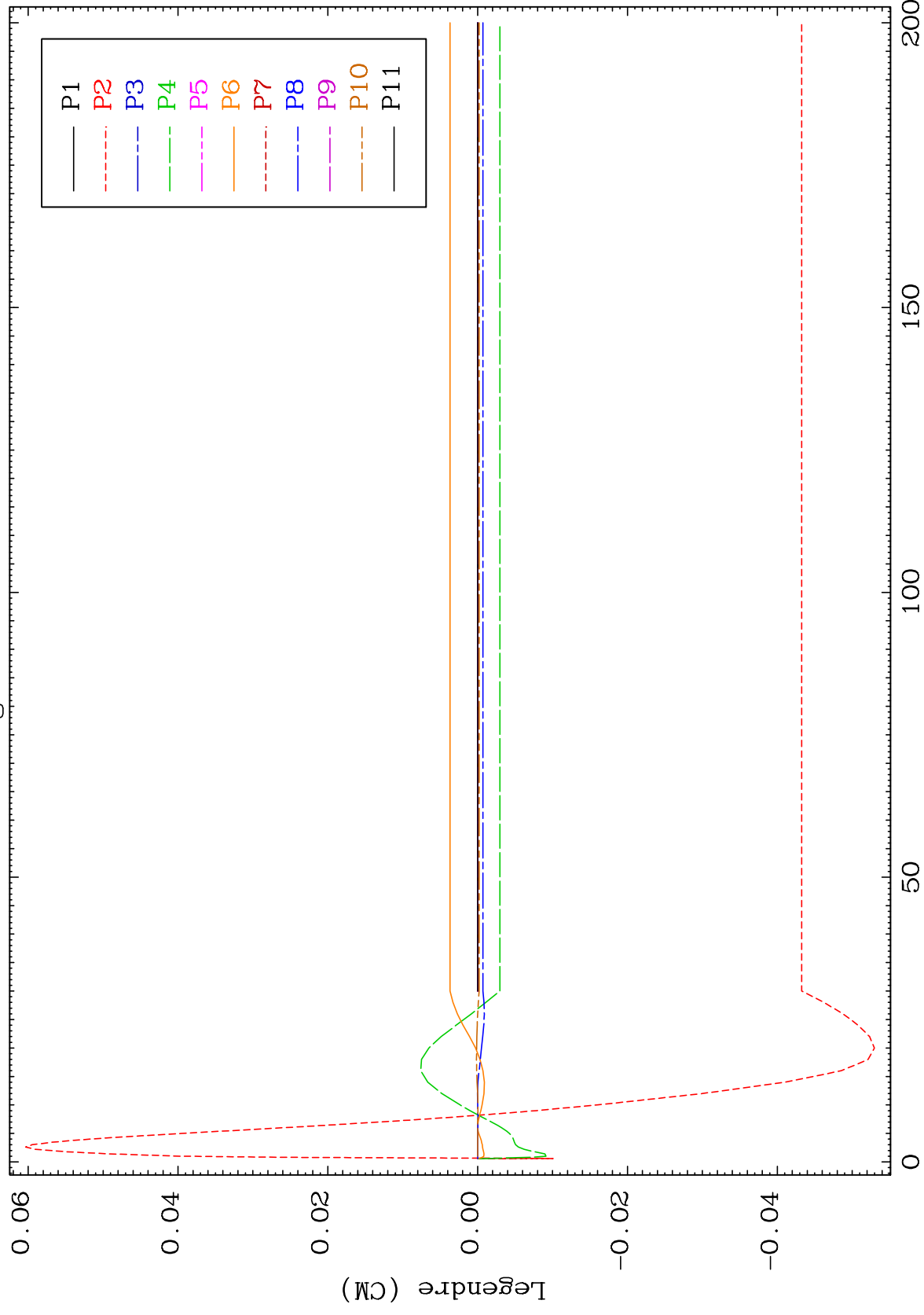
Legendre Coefficients



MAT 4158

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

41-Nb-104



64

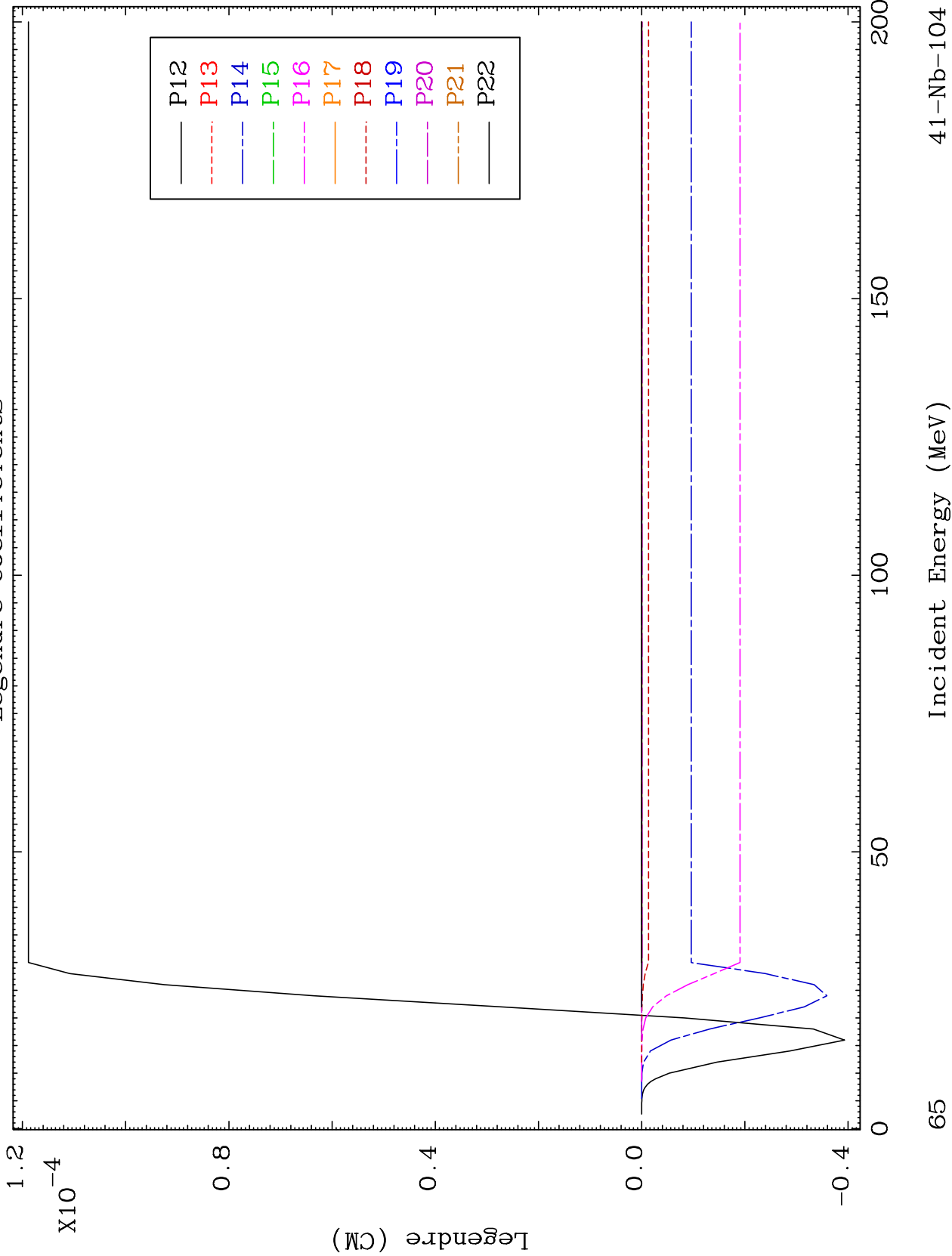
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



41-Nb-104

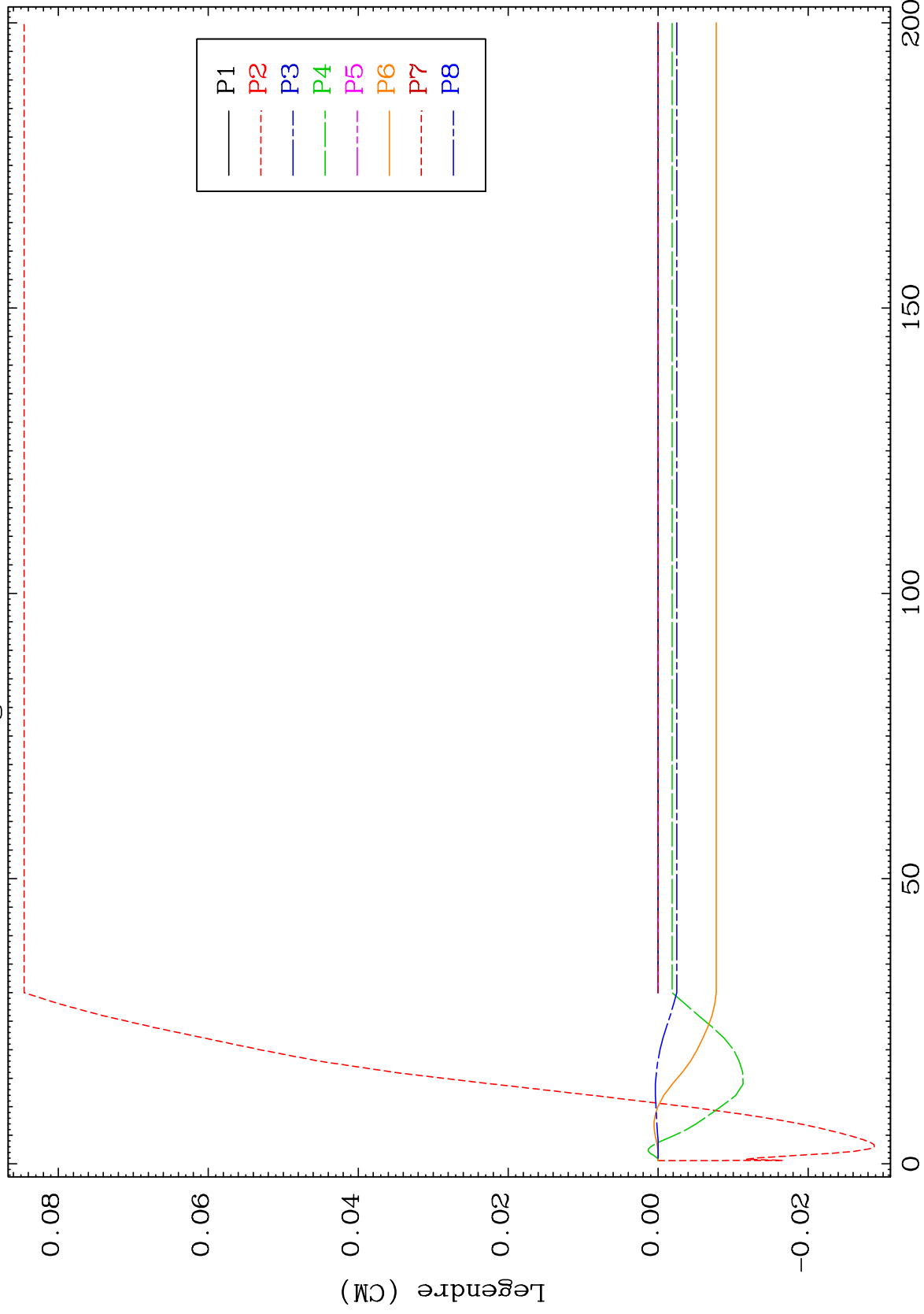
Incident Energy (MeV)

65

MAT 4158

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

41-Nb-104



41-Nb-104

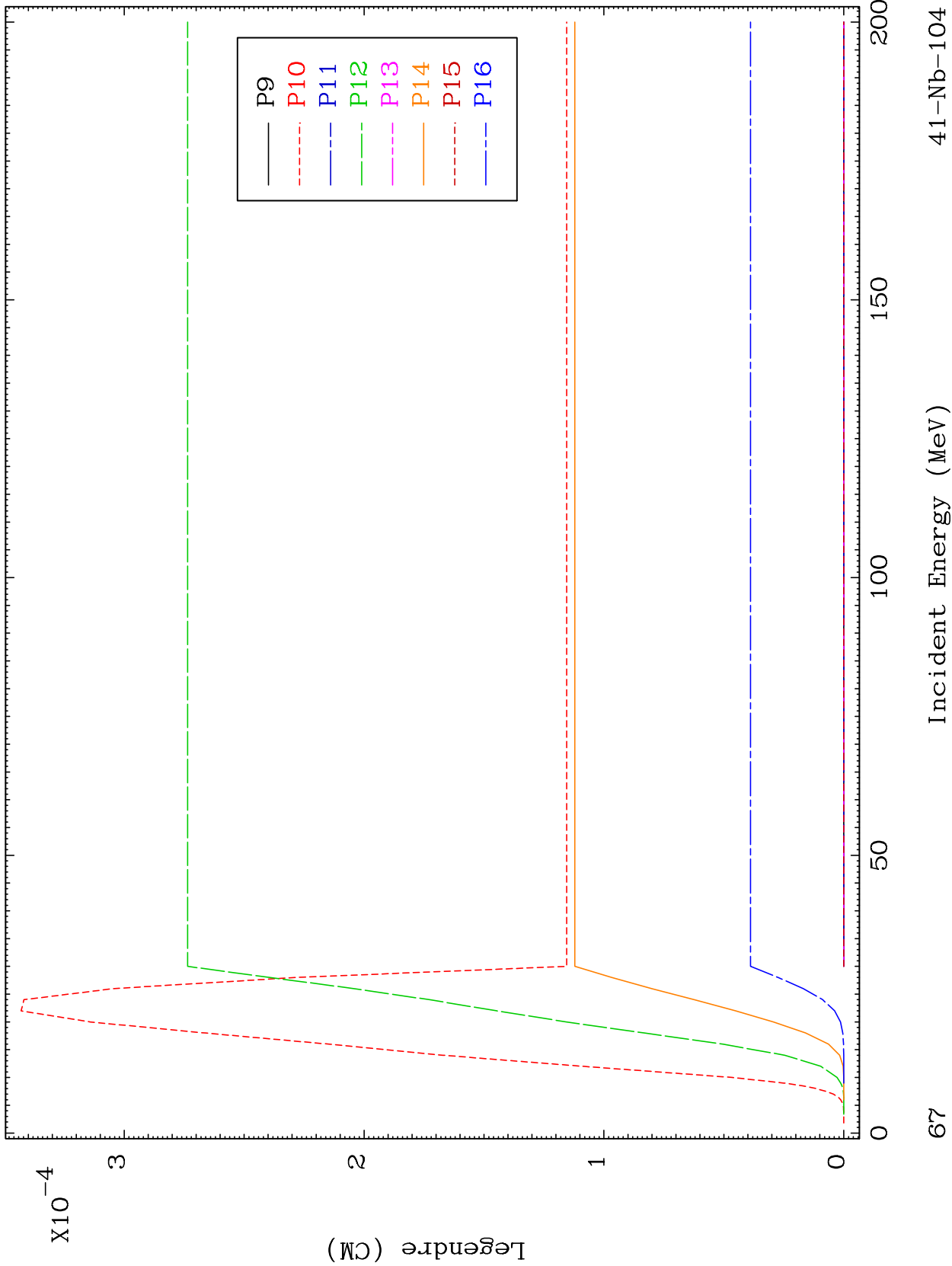
Incident Energy (MeV)

66

MAT 4158

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

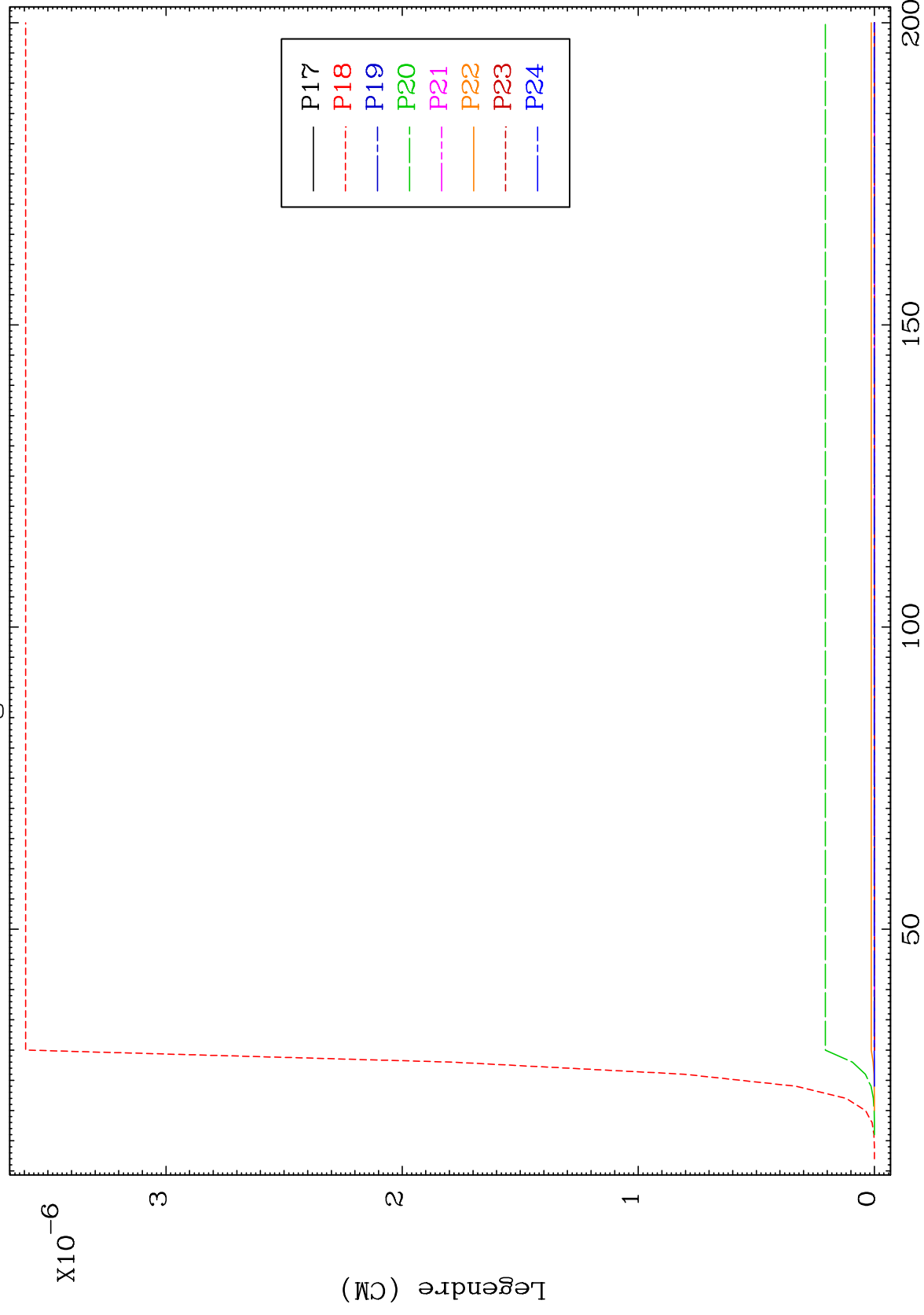
41-Nb-104



MAT 4158

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

41-Nb-104



68

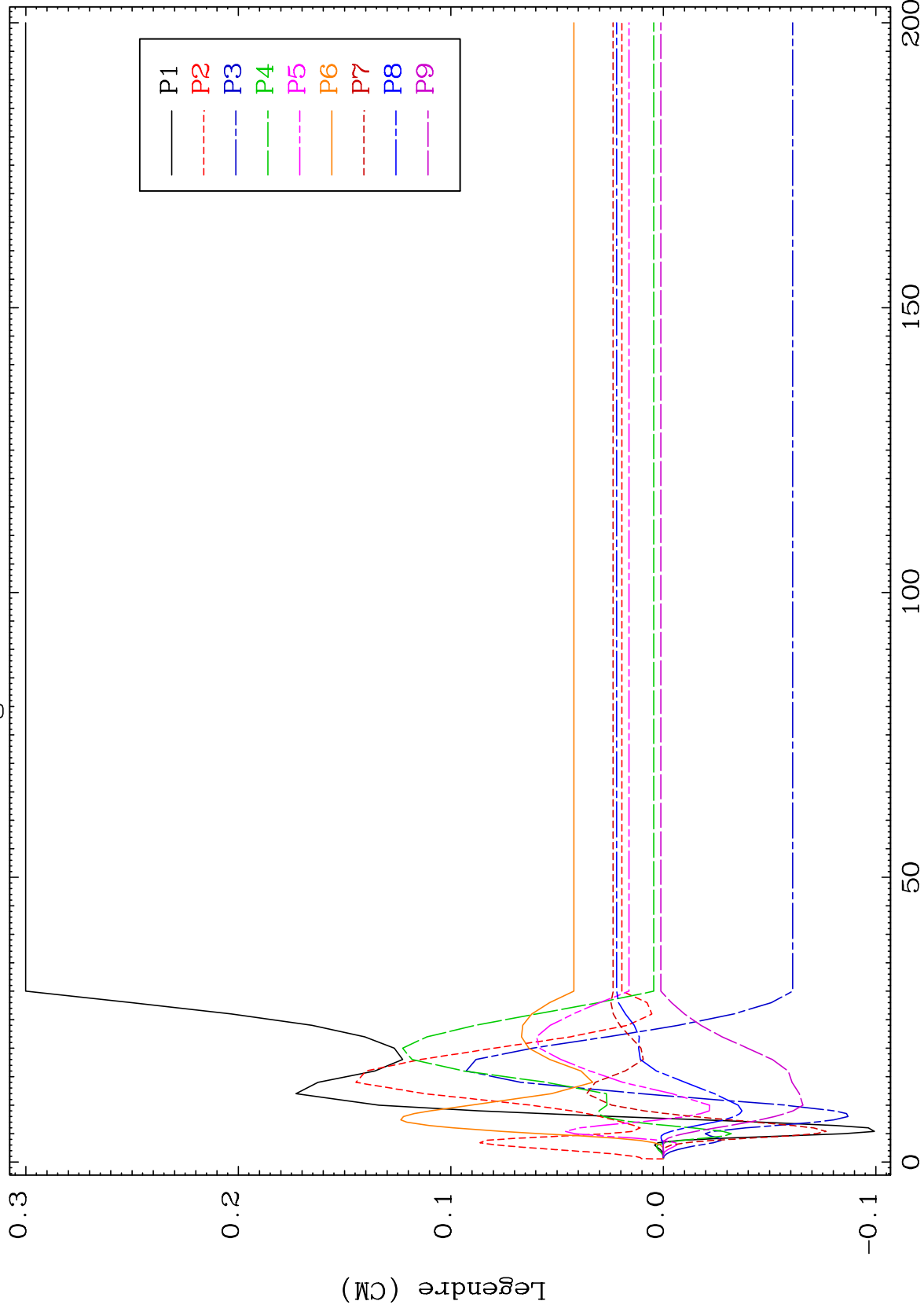
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



69

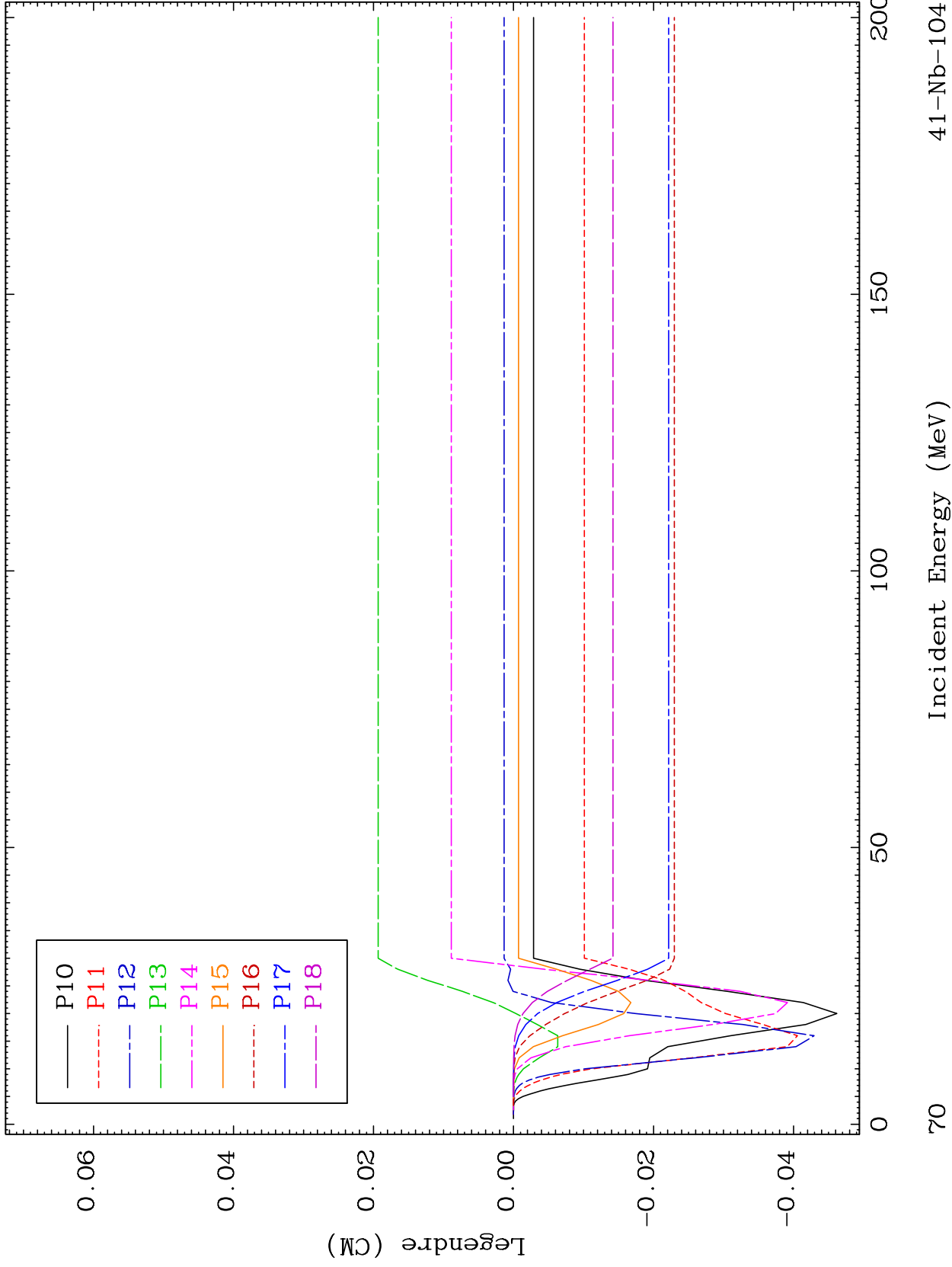
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

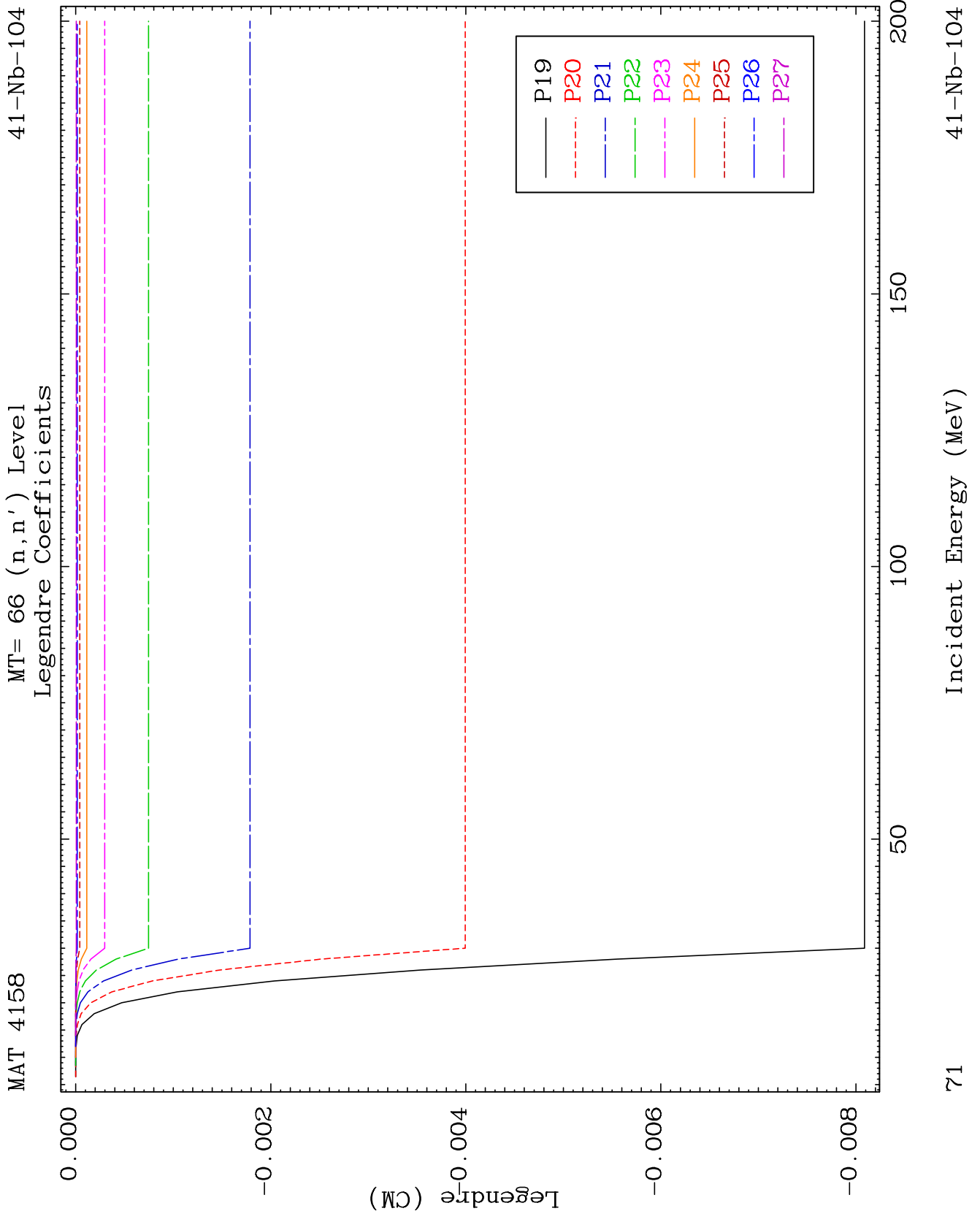
41-Nb-104



41-Nb-104

Incident Energy (MeV)

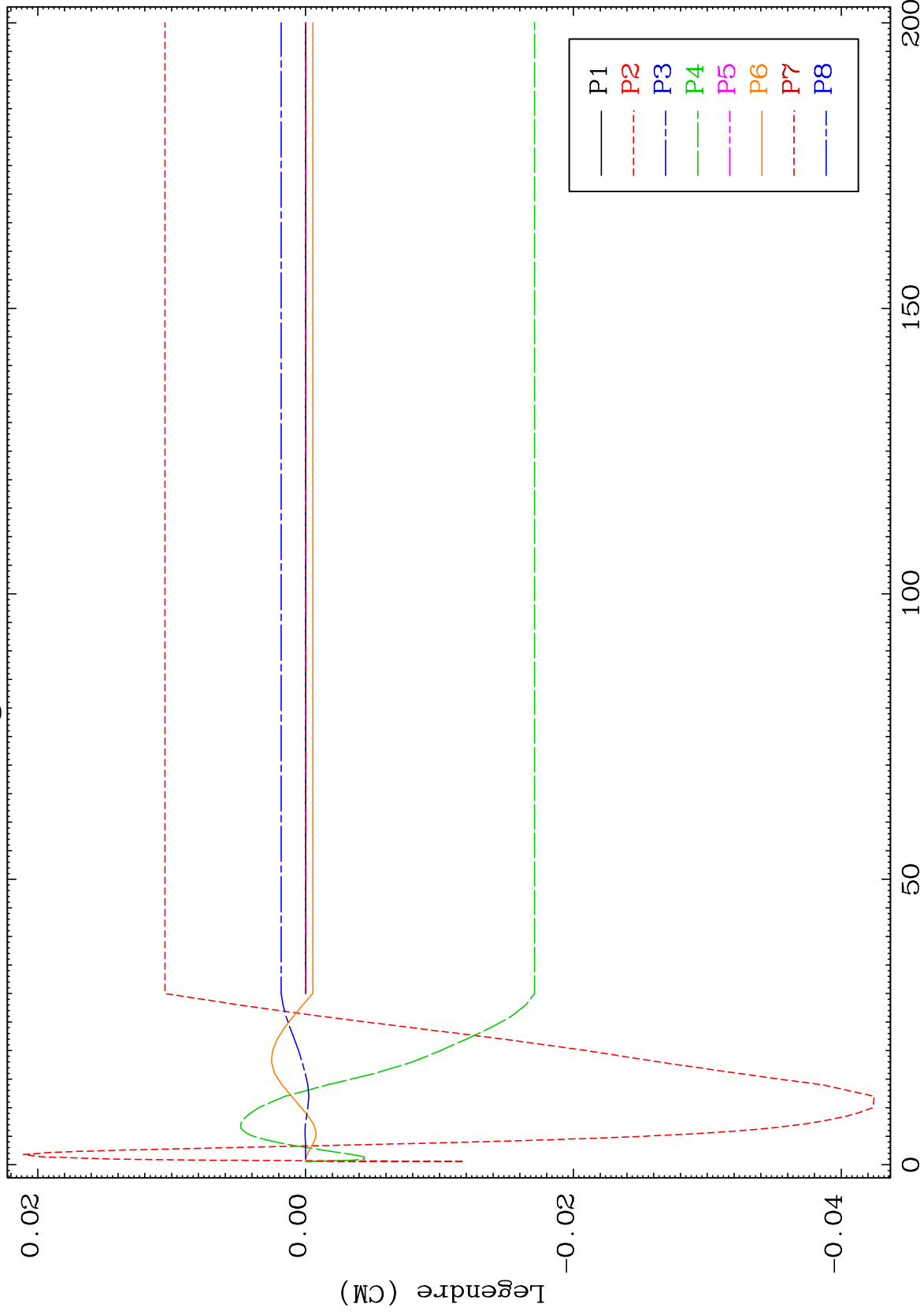
70



MAT 4158

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

41-Nb-104



73

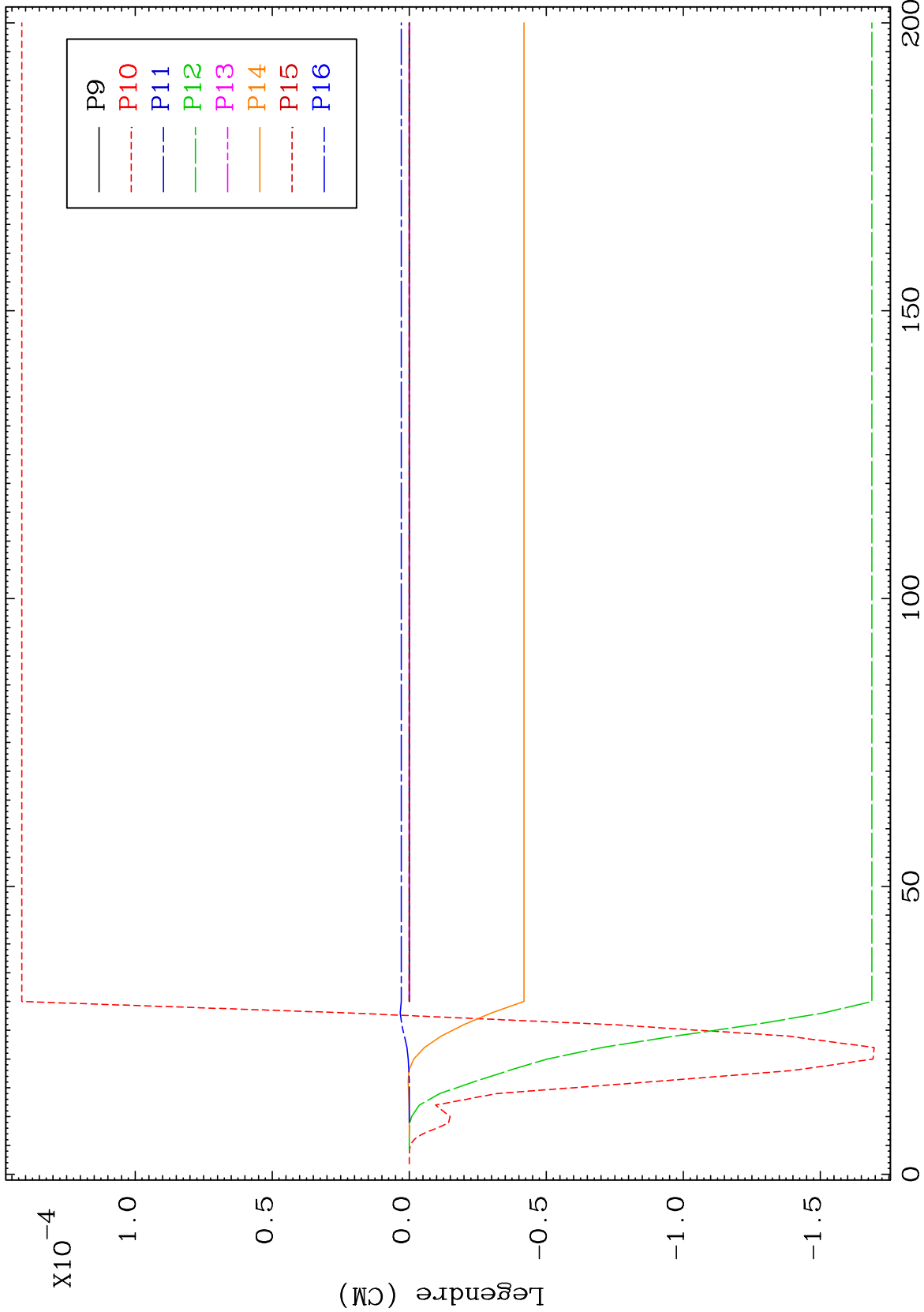
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



74

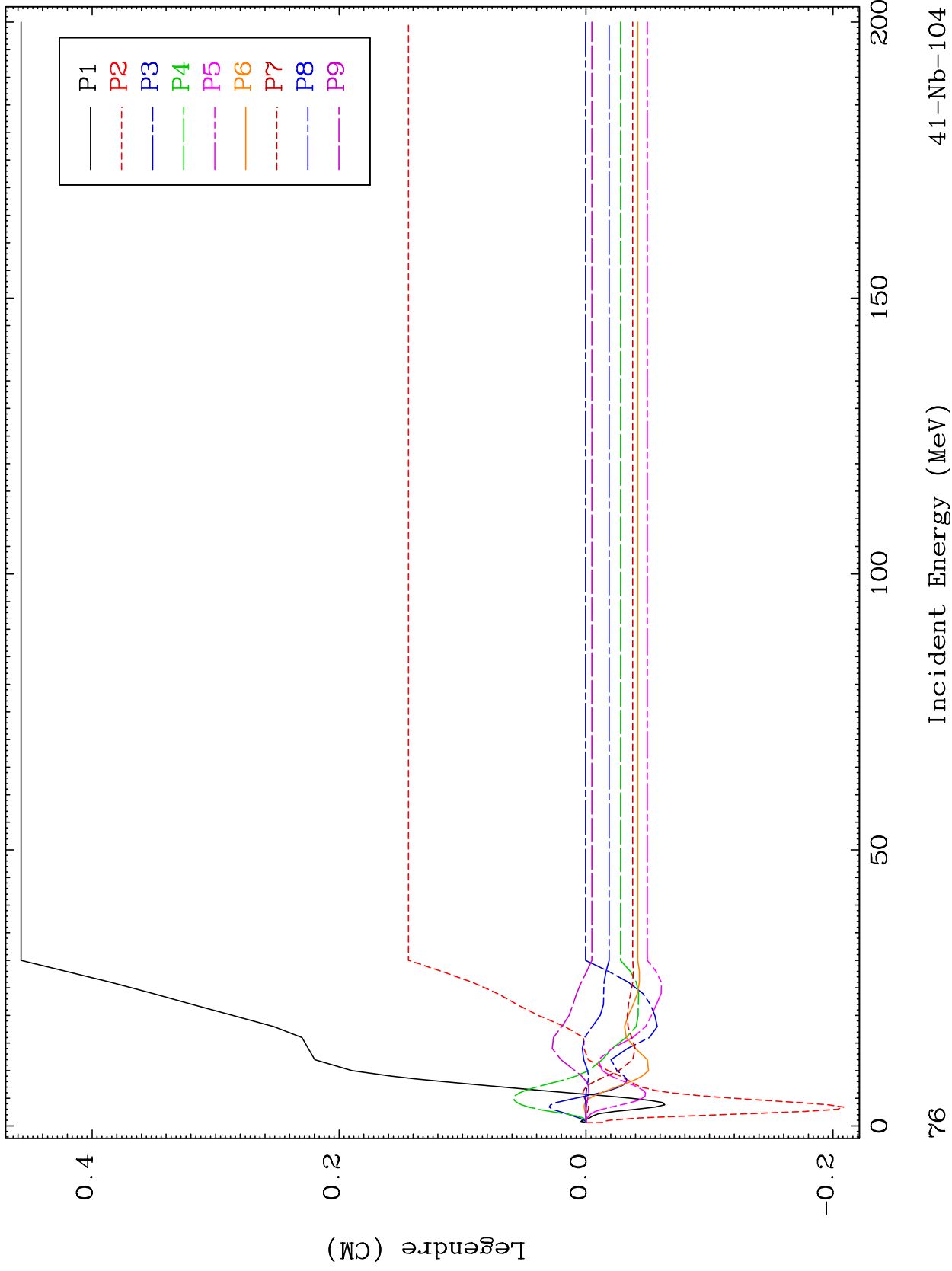
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

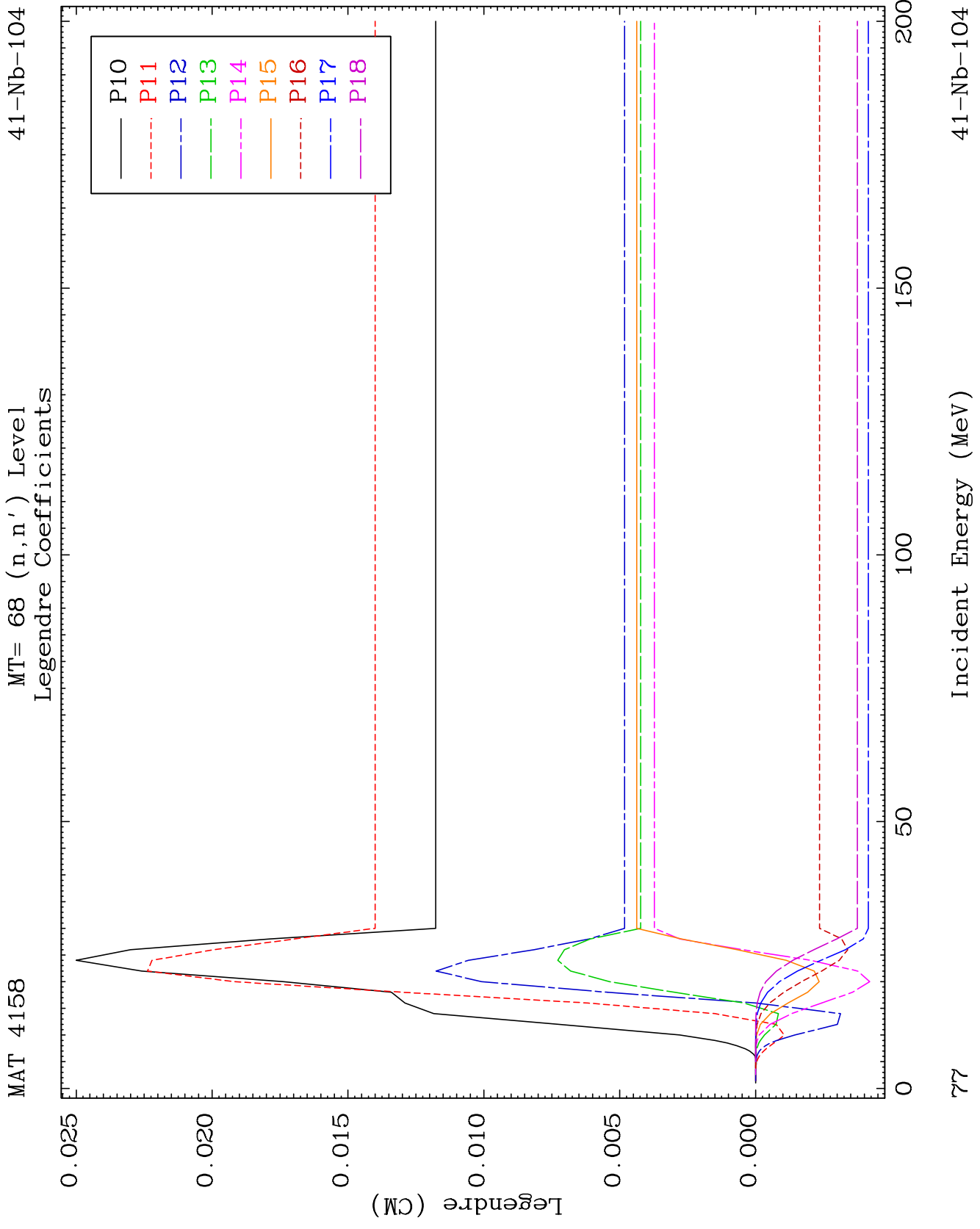
41-Nb-104



76

Incident Energy (MeV)

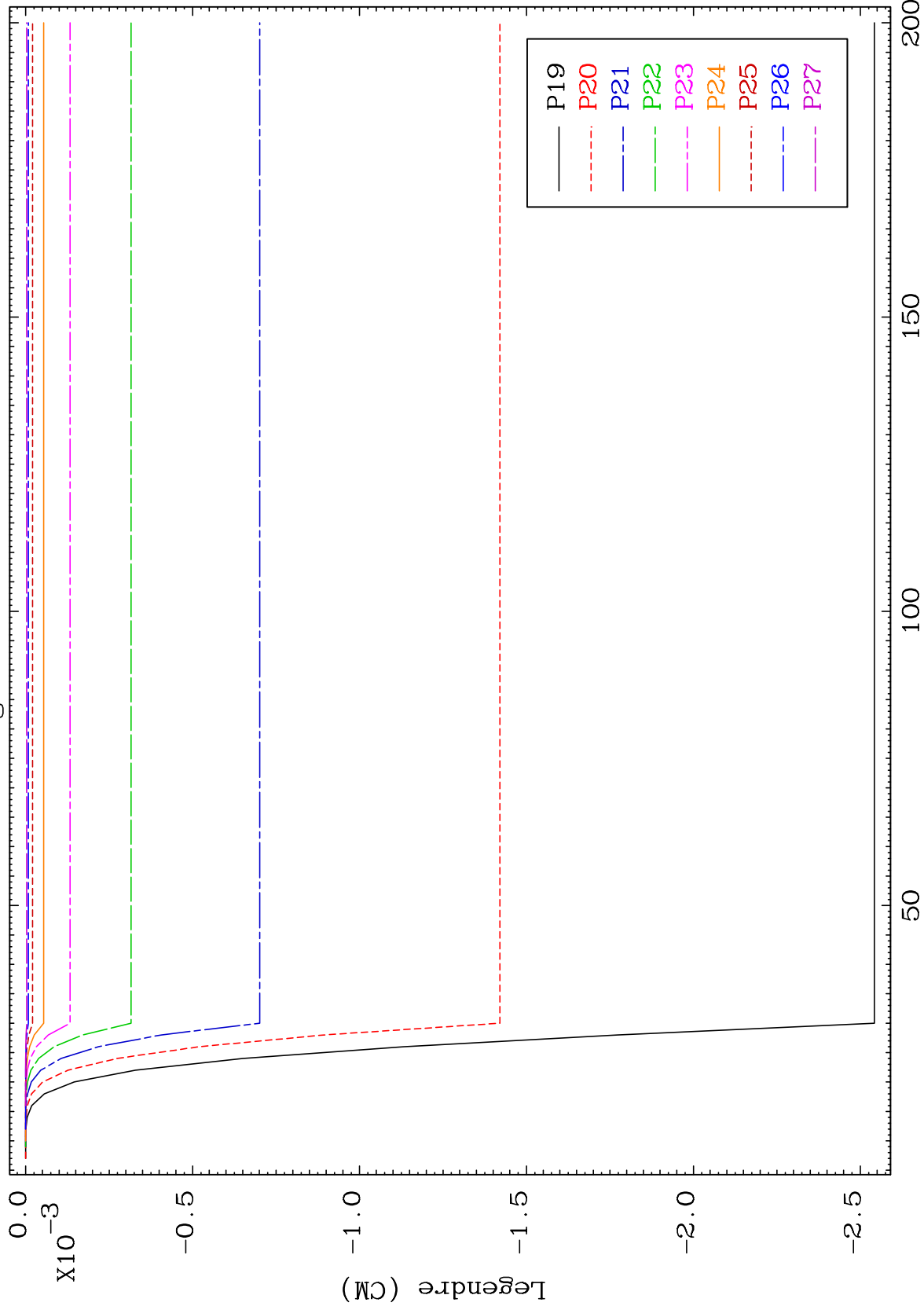
41-Nb-104



MAT 4158

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

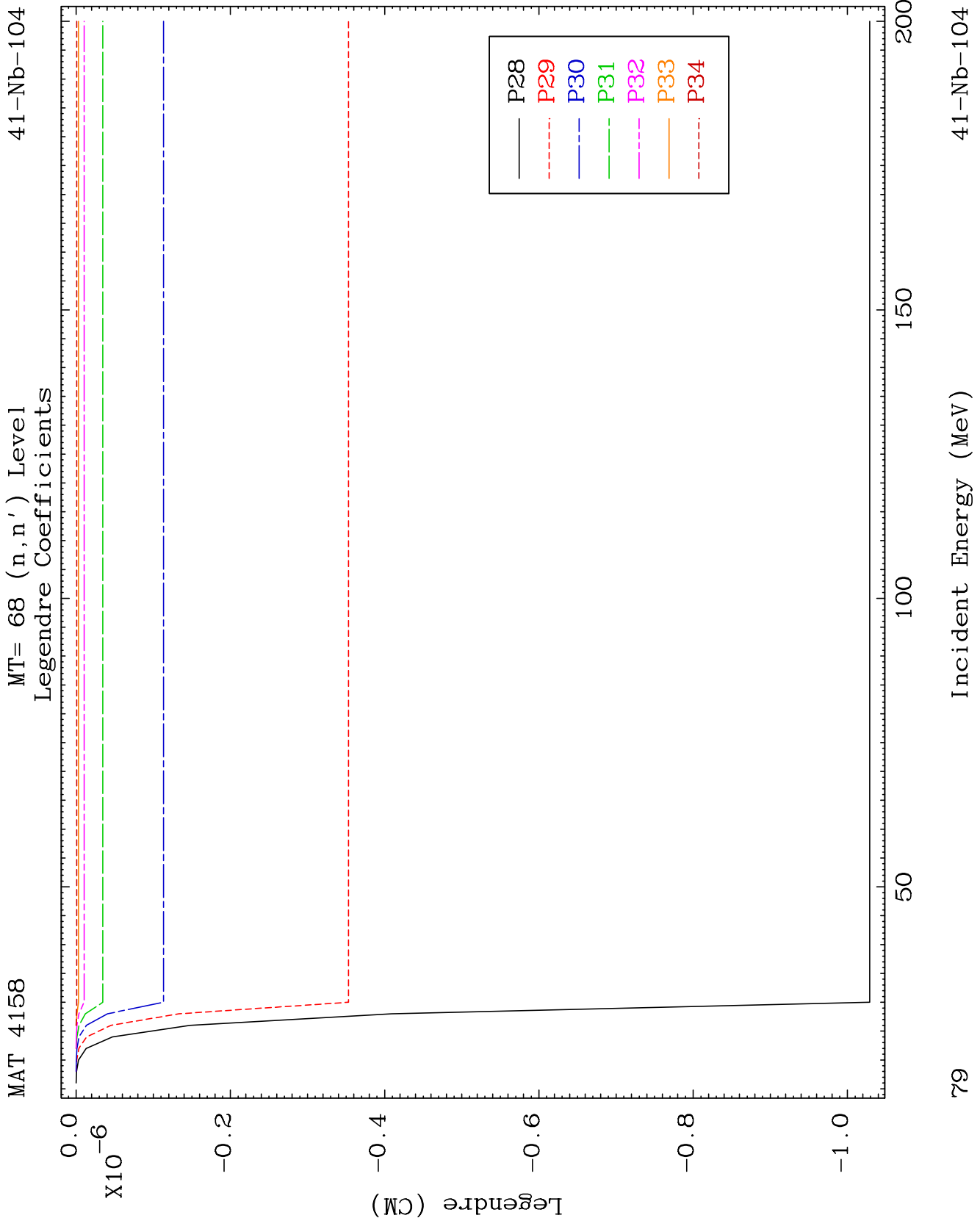
41-Nb-104



78

Incident Energy (MeV)

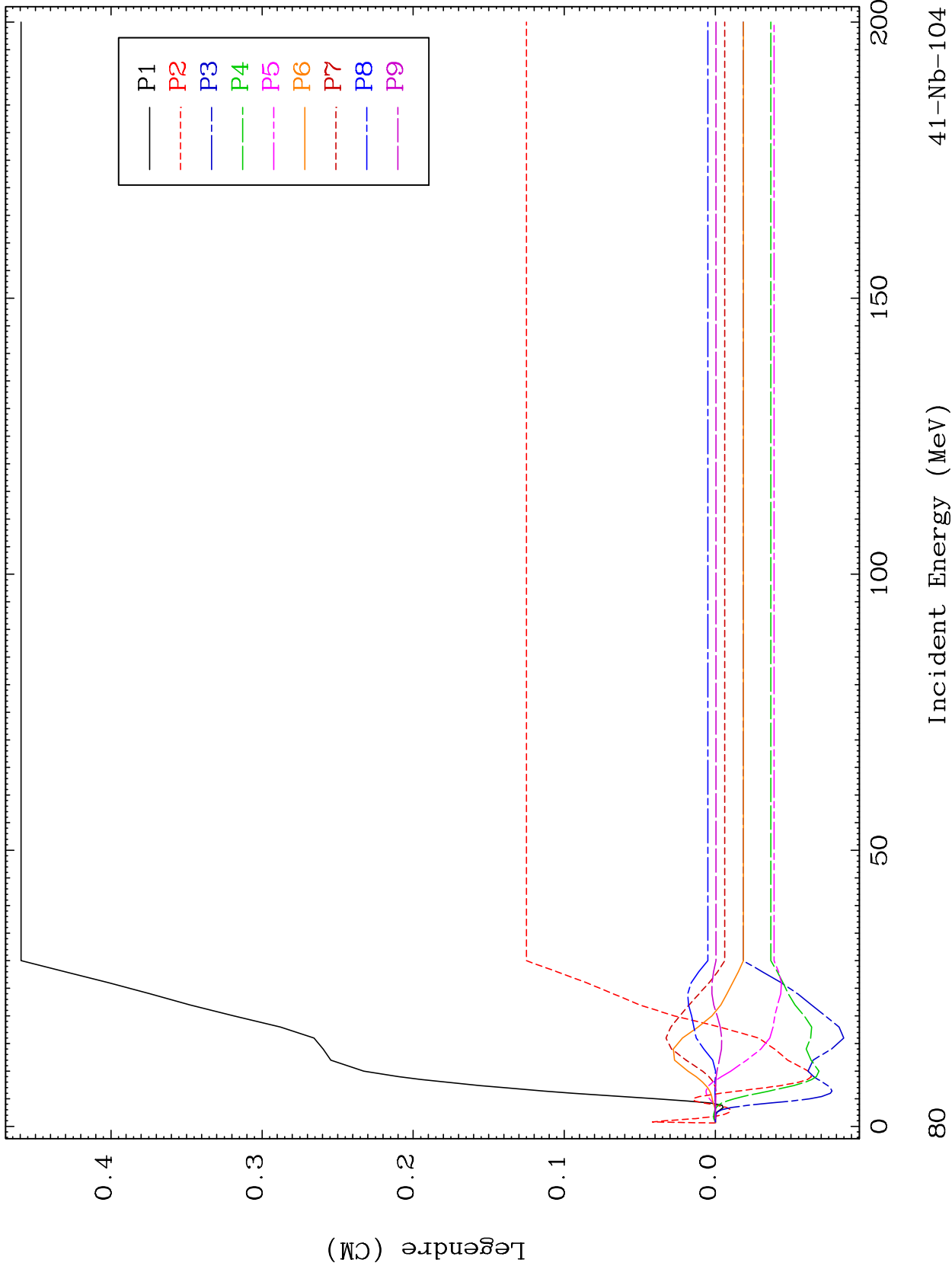
41-Nb-104



MAT 4158

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

41-Nb-104

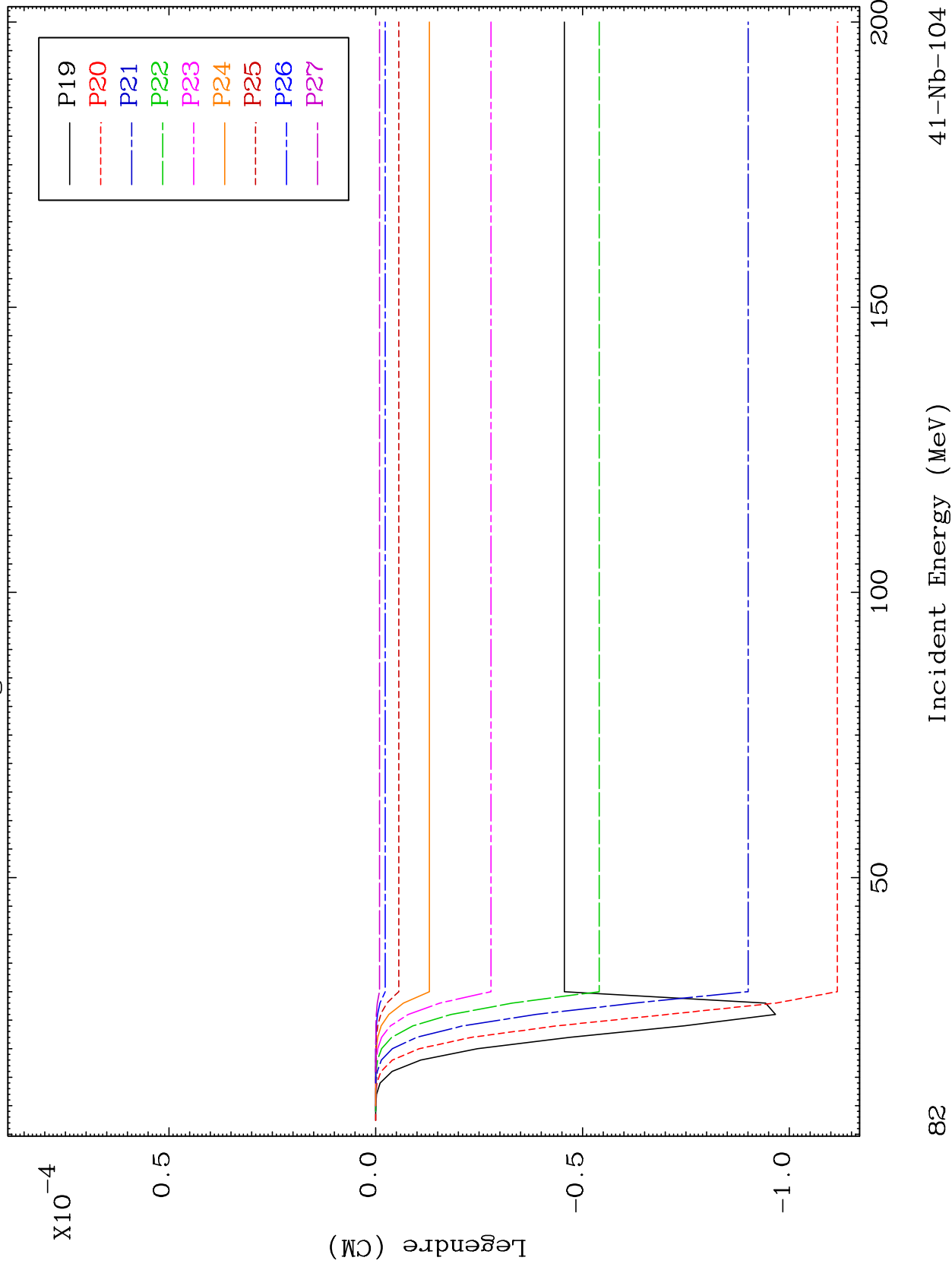


41-Nb-104

MAT 4158

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

41-Nb-104



82

Incident Energy (MeV)

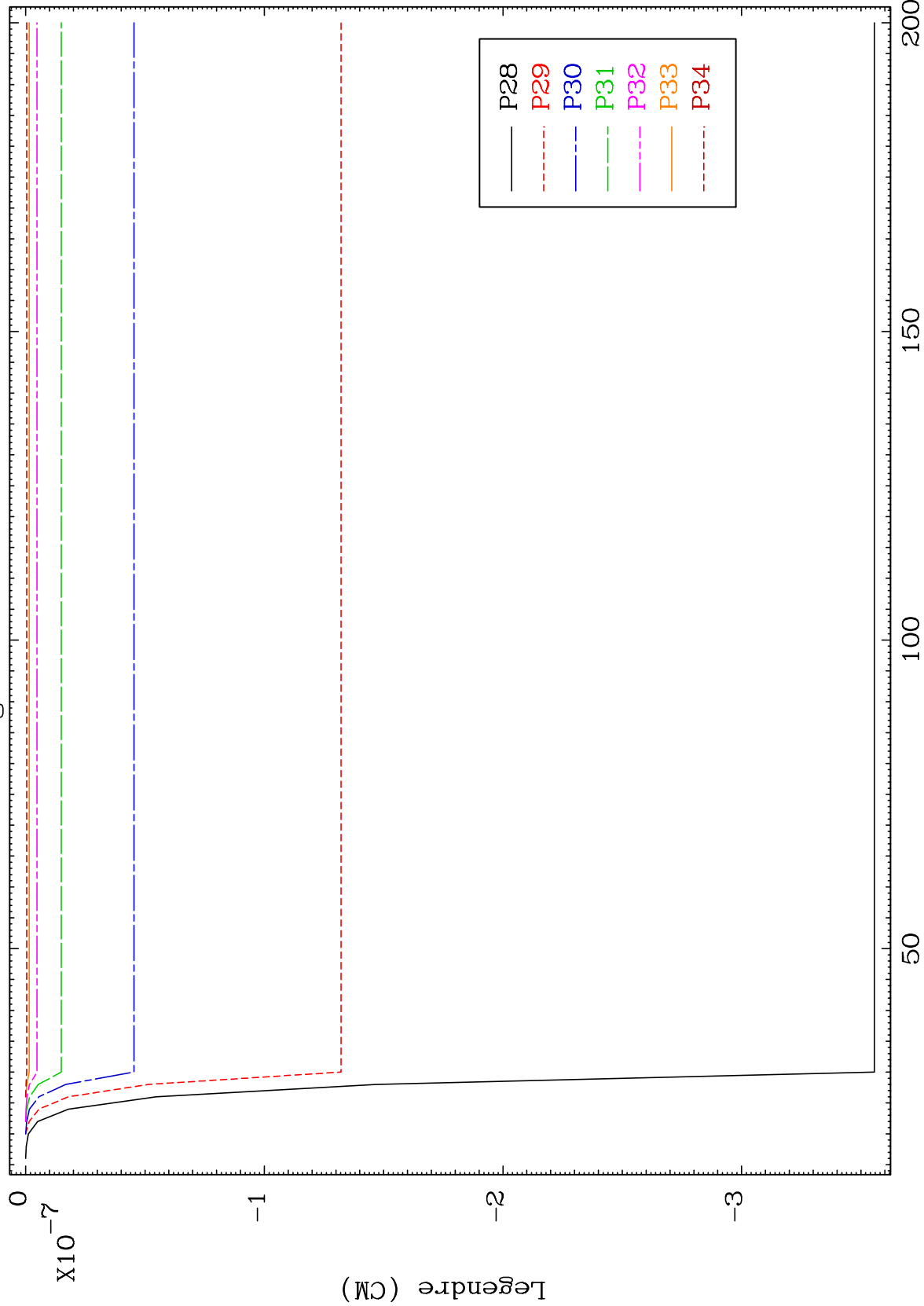
41-Nb-104

MAT 4158

MT= 69 (n,n') Level

41-Nb-104

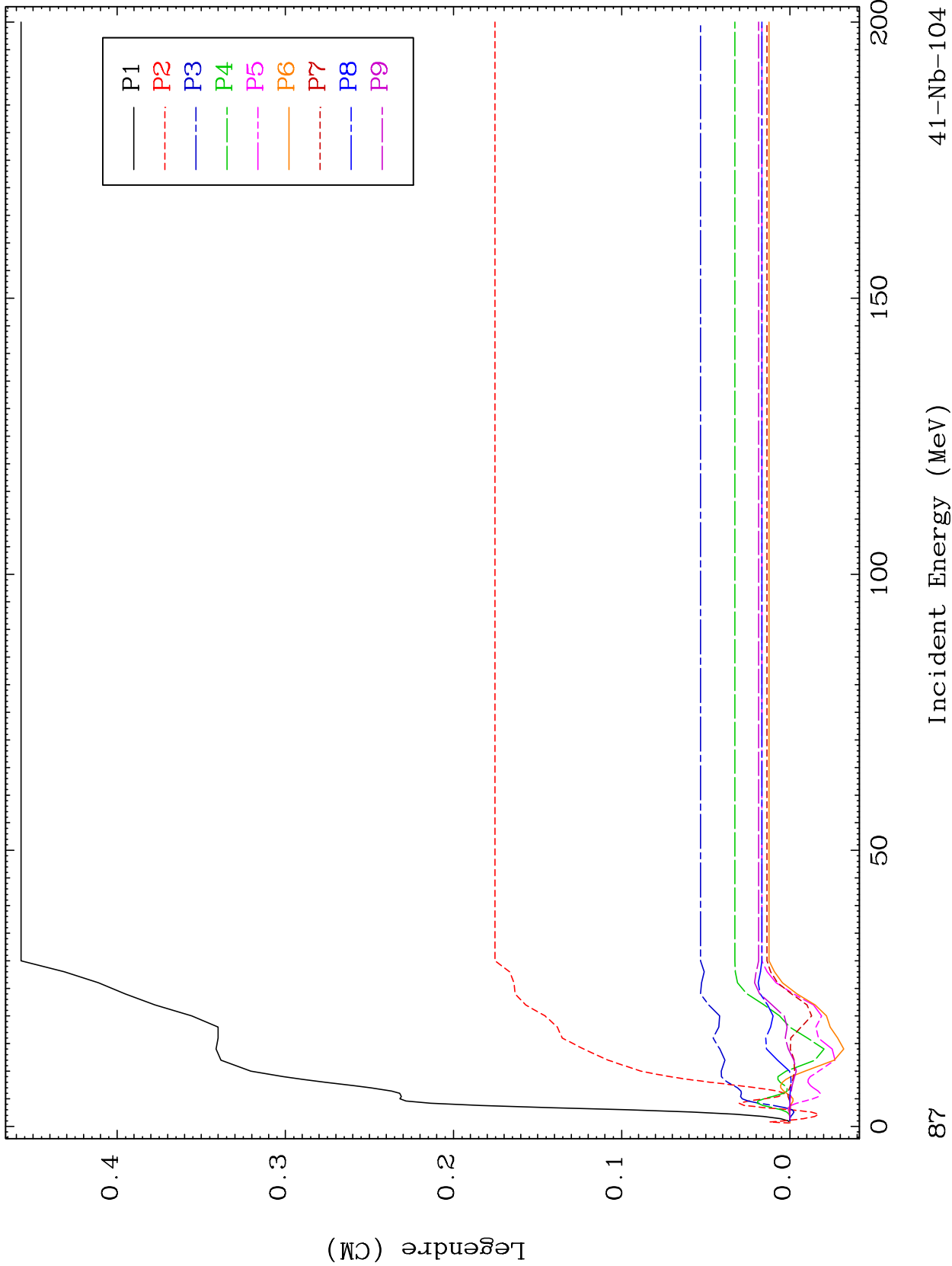
Legendre Coefficients

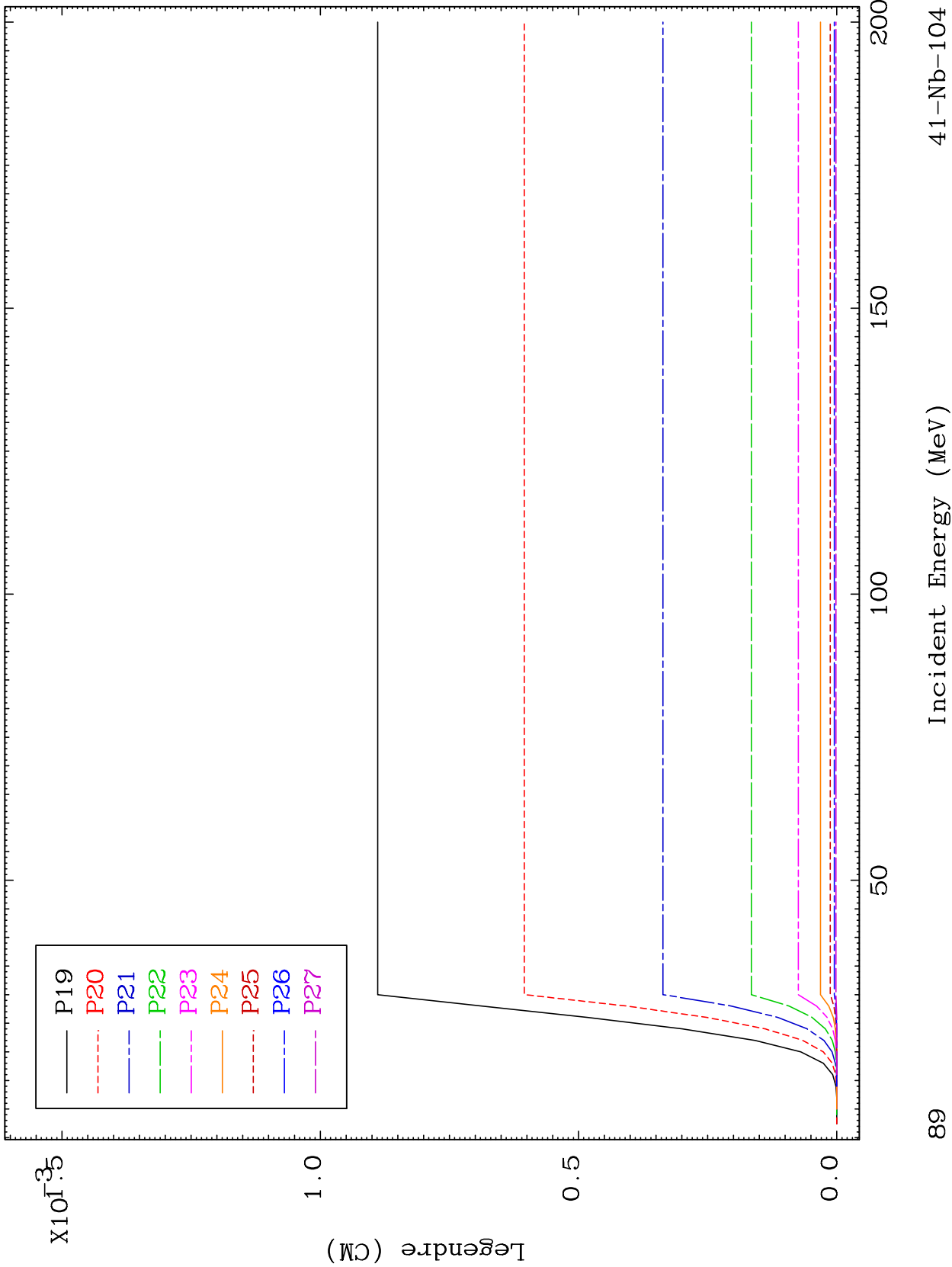


MAT 4158

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

41-Nb-104

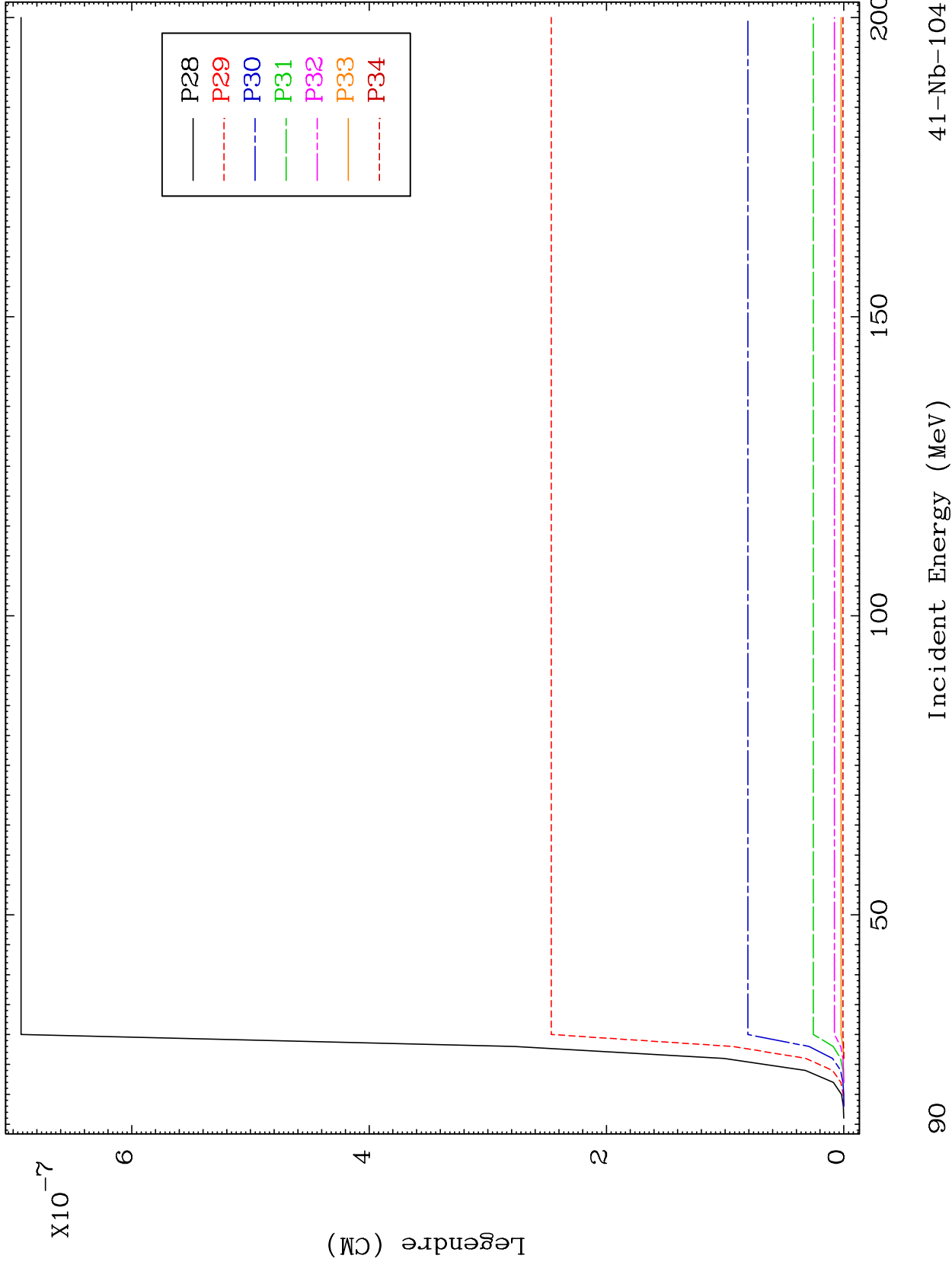




MAT 4158

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

41-Nb-104

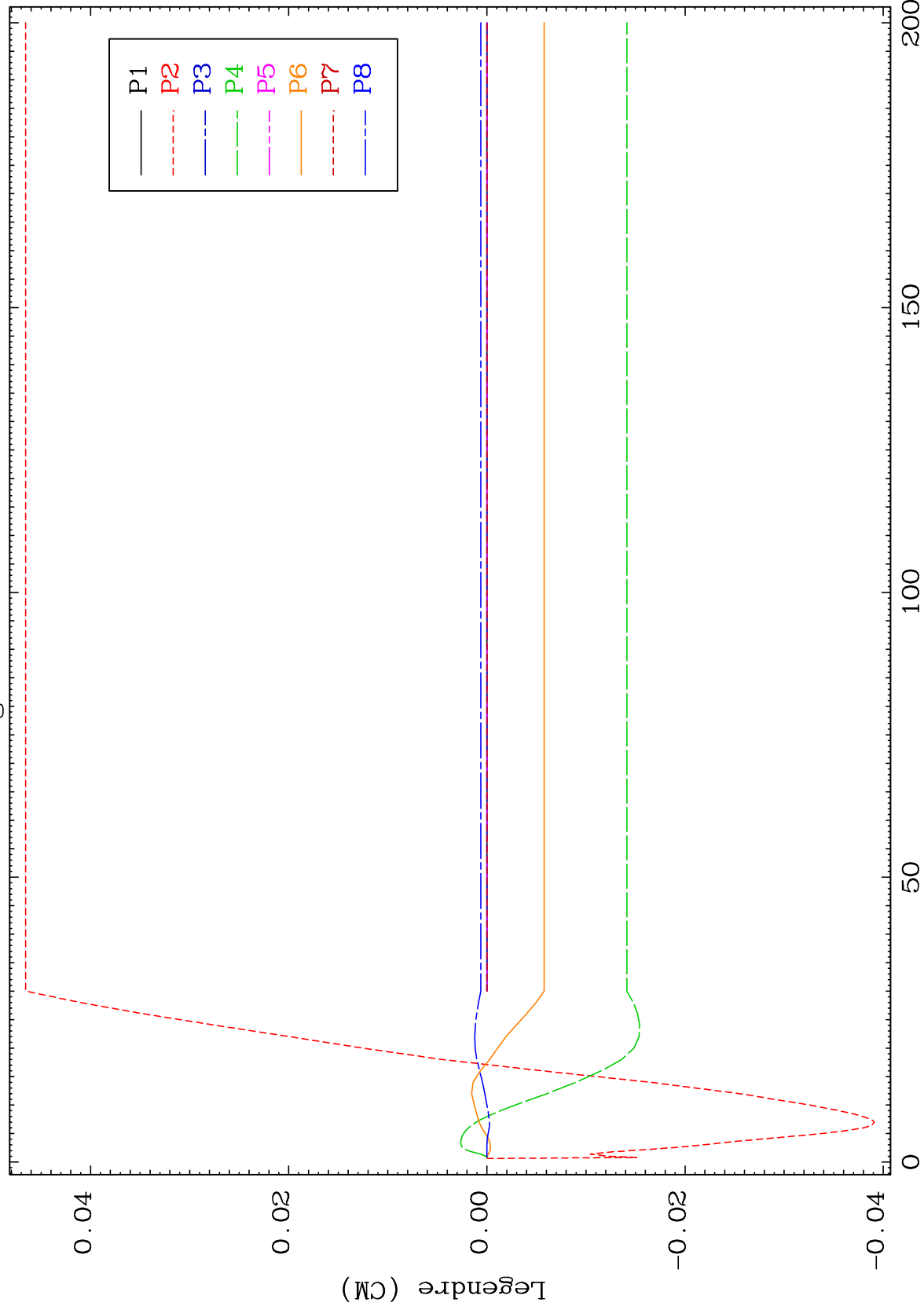


41-Nb-104

MAT 4158

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

41-Nb-104



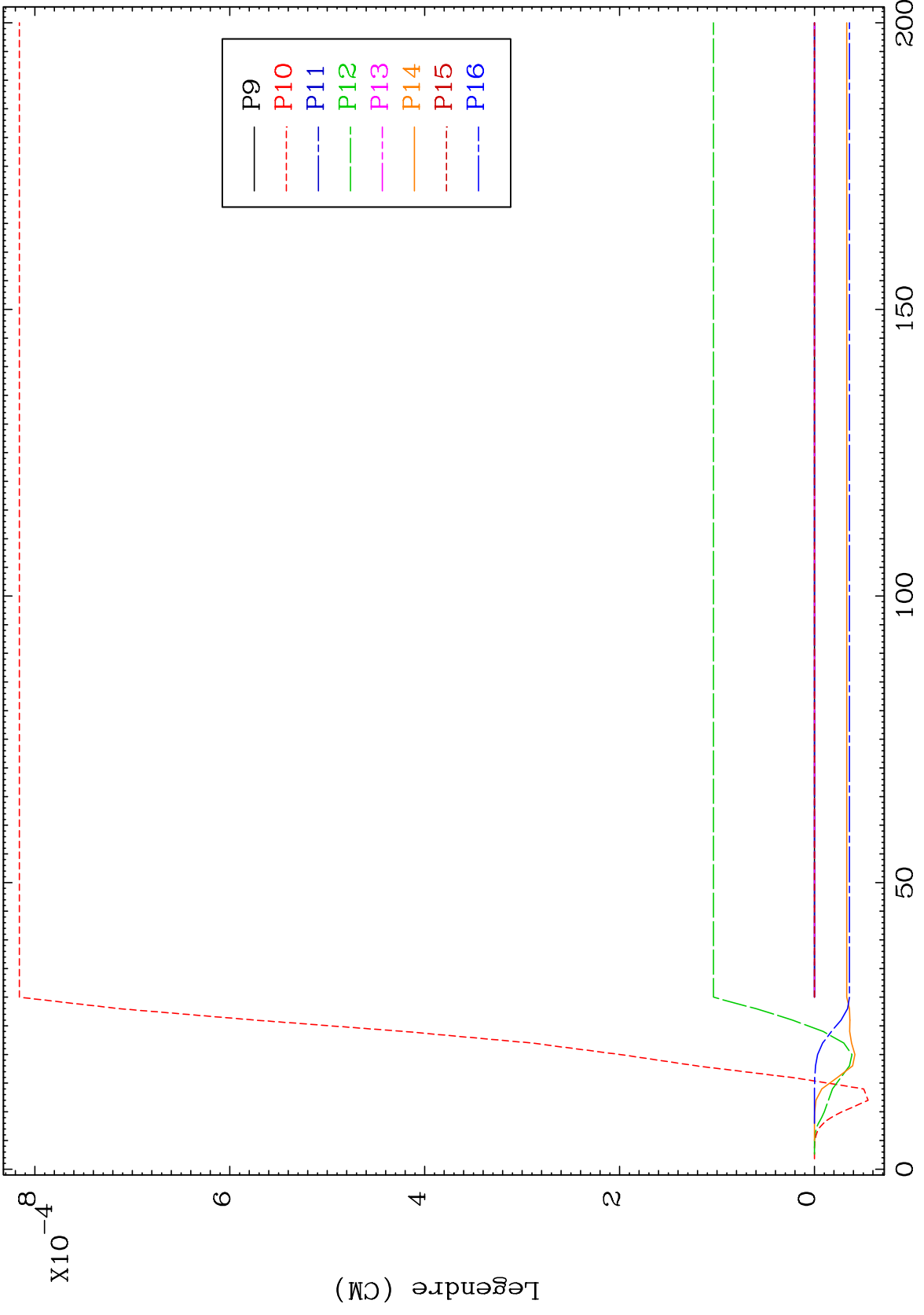
91

41-Nb-104

MAT 4158

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

41-Nb-104



92

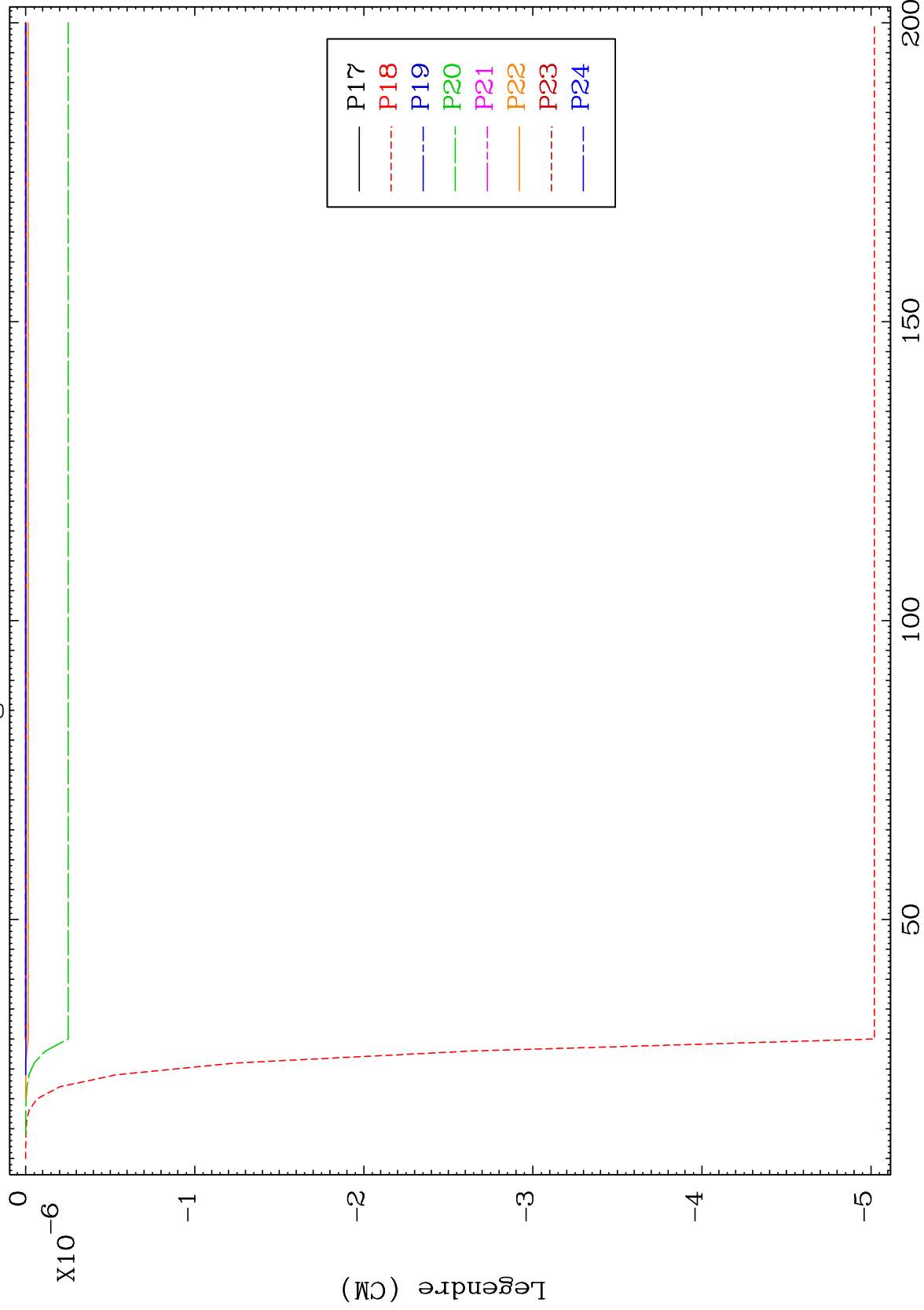
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



93

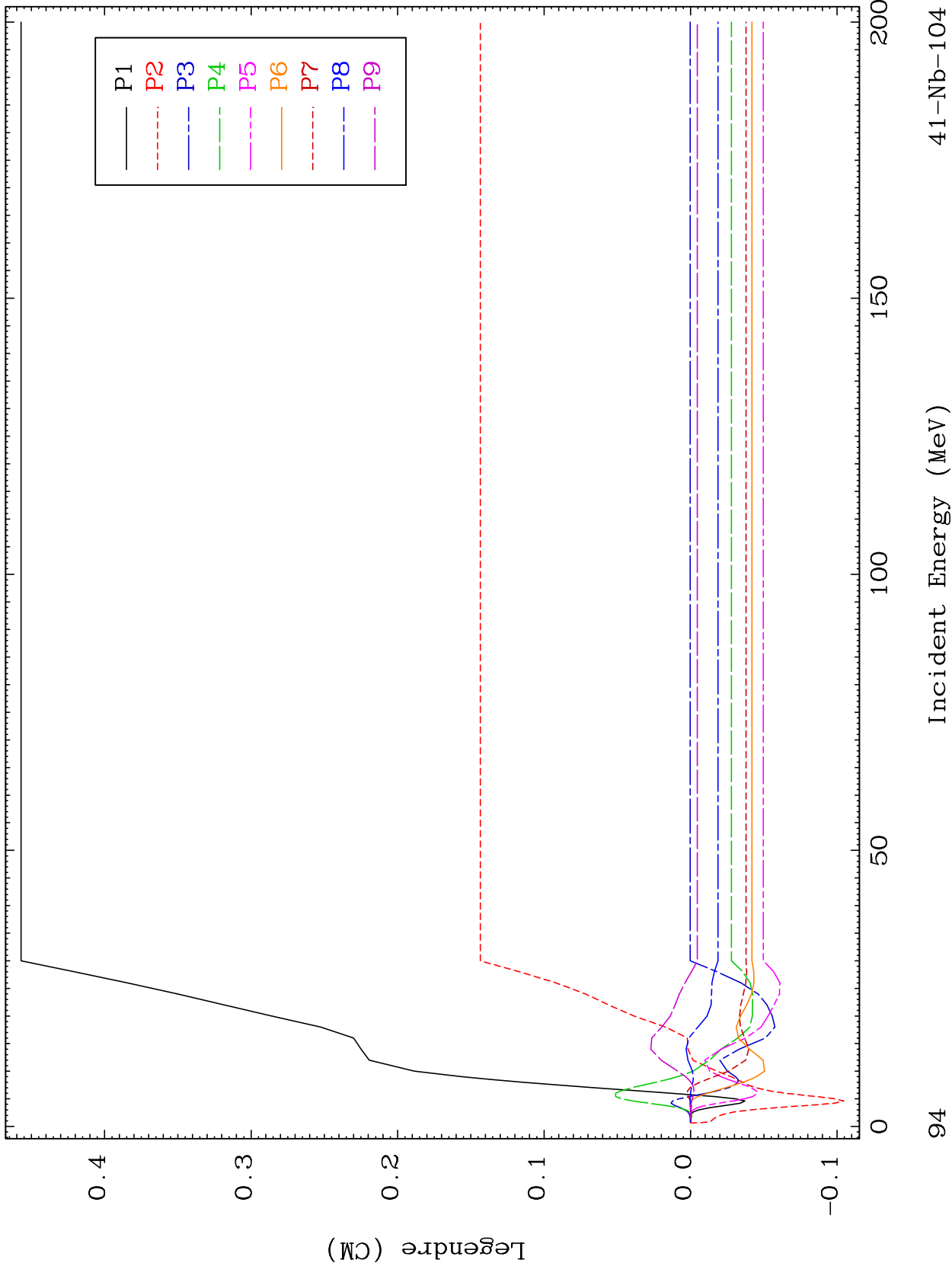
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

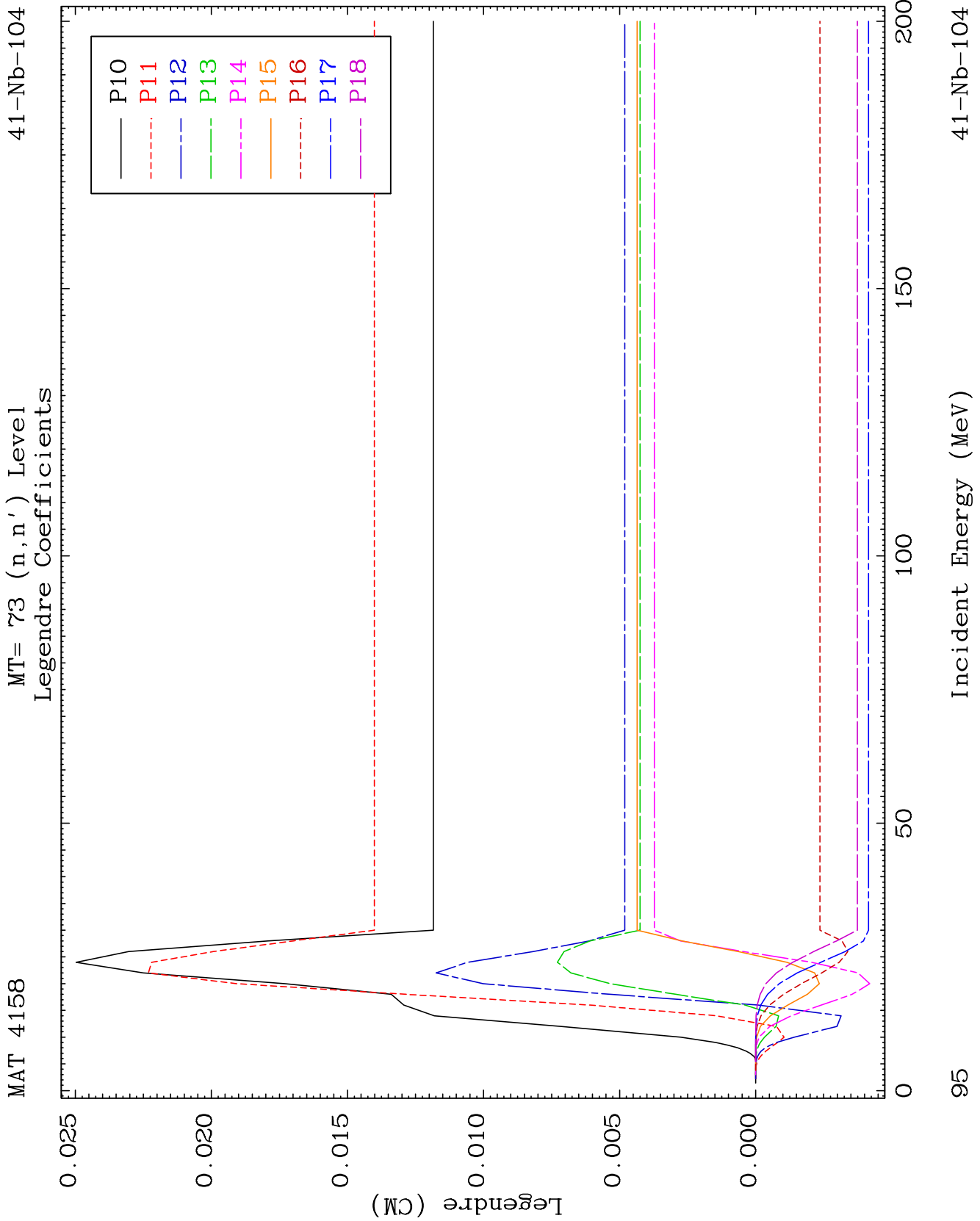
41-Nb-104

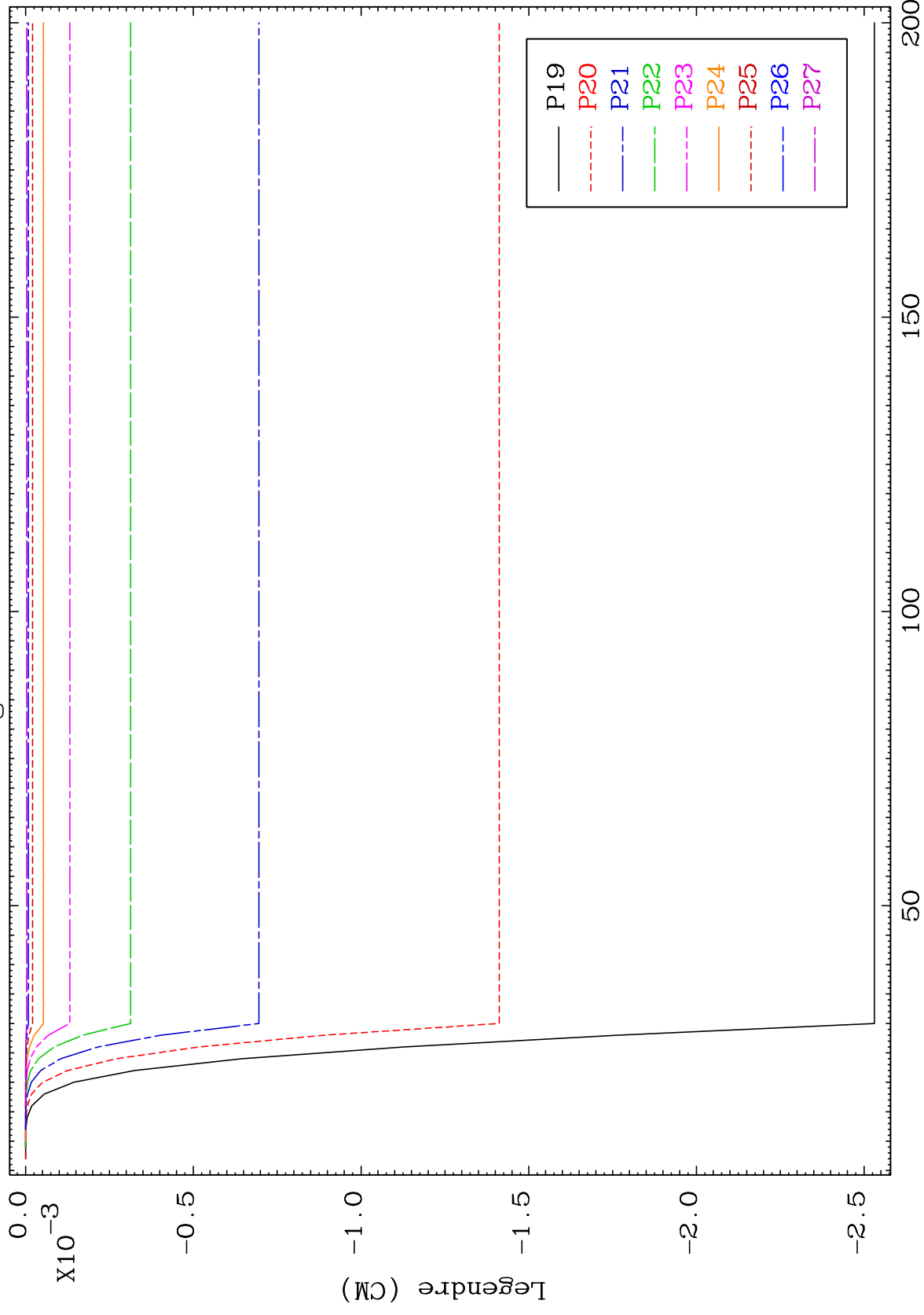


94

Incident Energy (MeV)

41-Nb-104



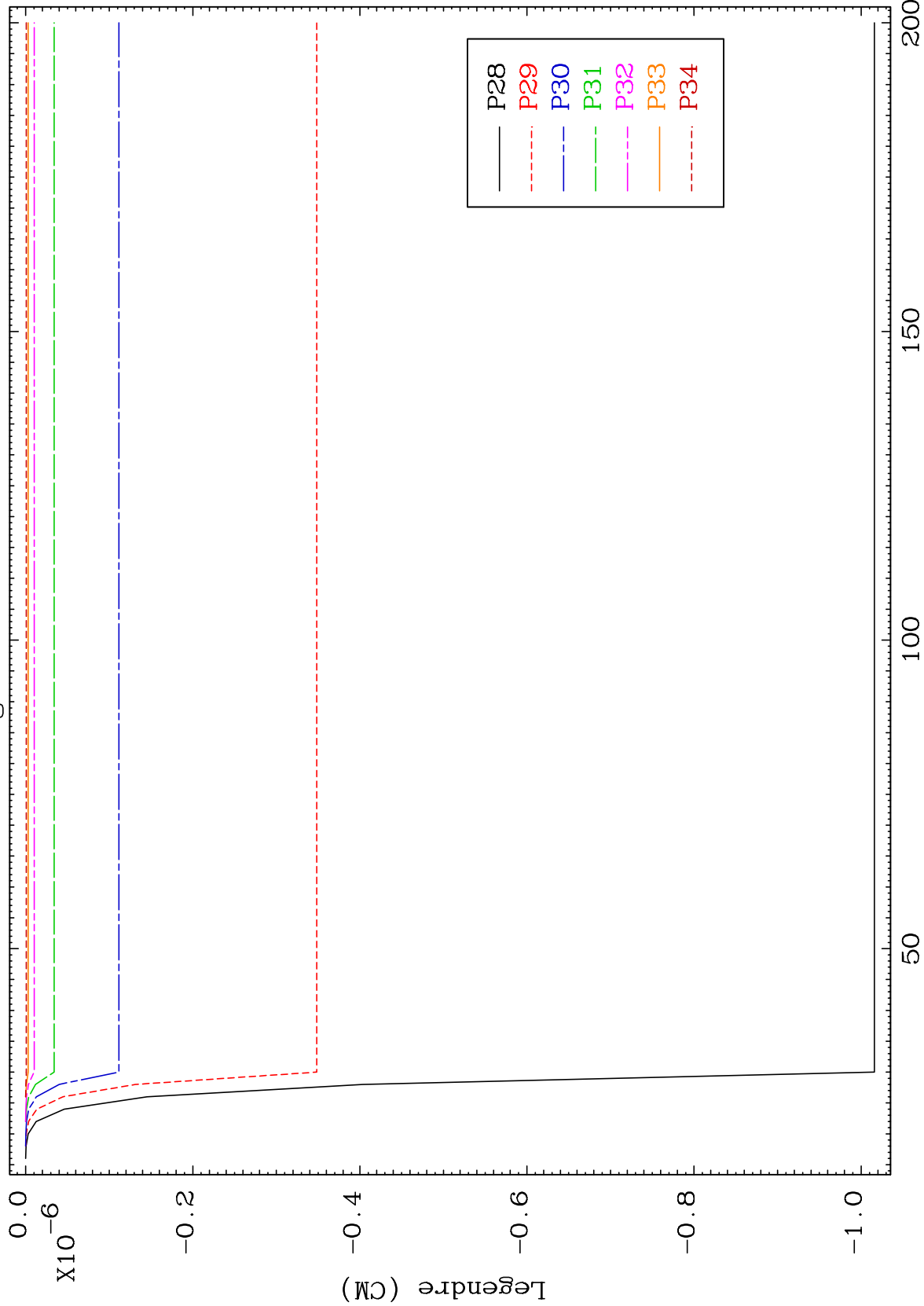


MAT 4158

MT= 73 (n,n') Level

41-Nb-104

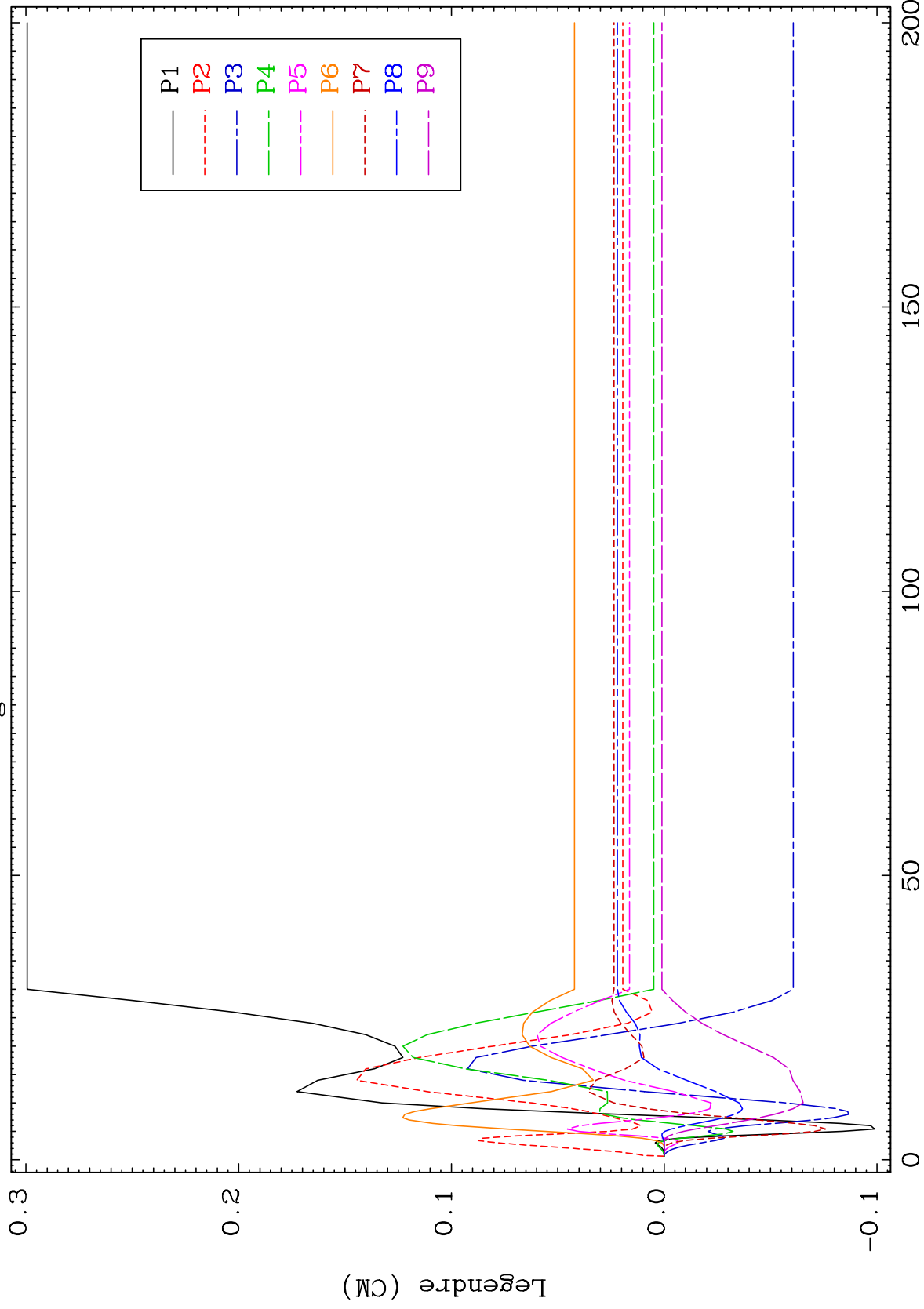
Legendre Coefficients



MAT 4158

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

41-Nb-104



98

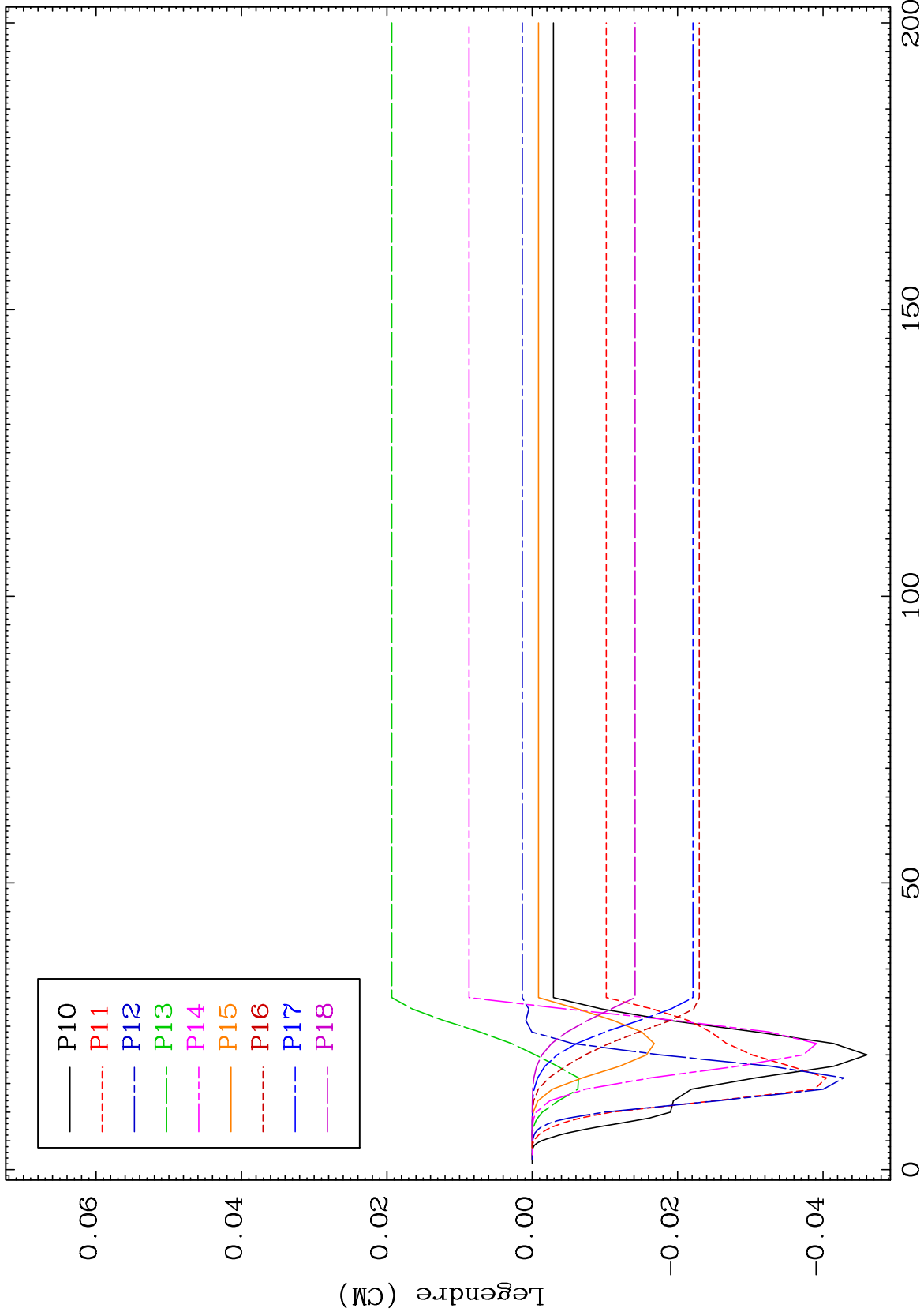
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

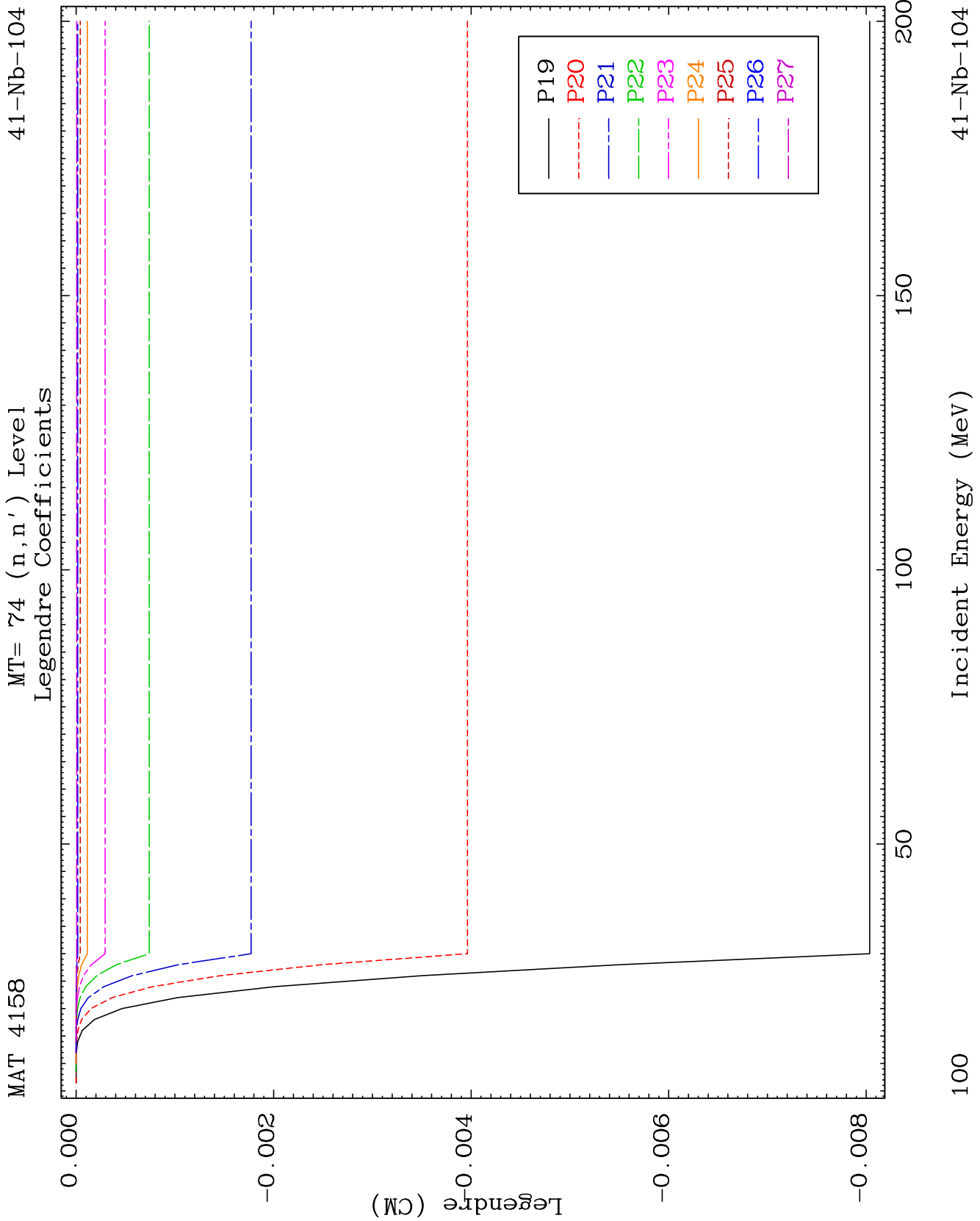
41-Nb-104

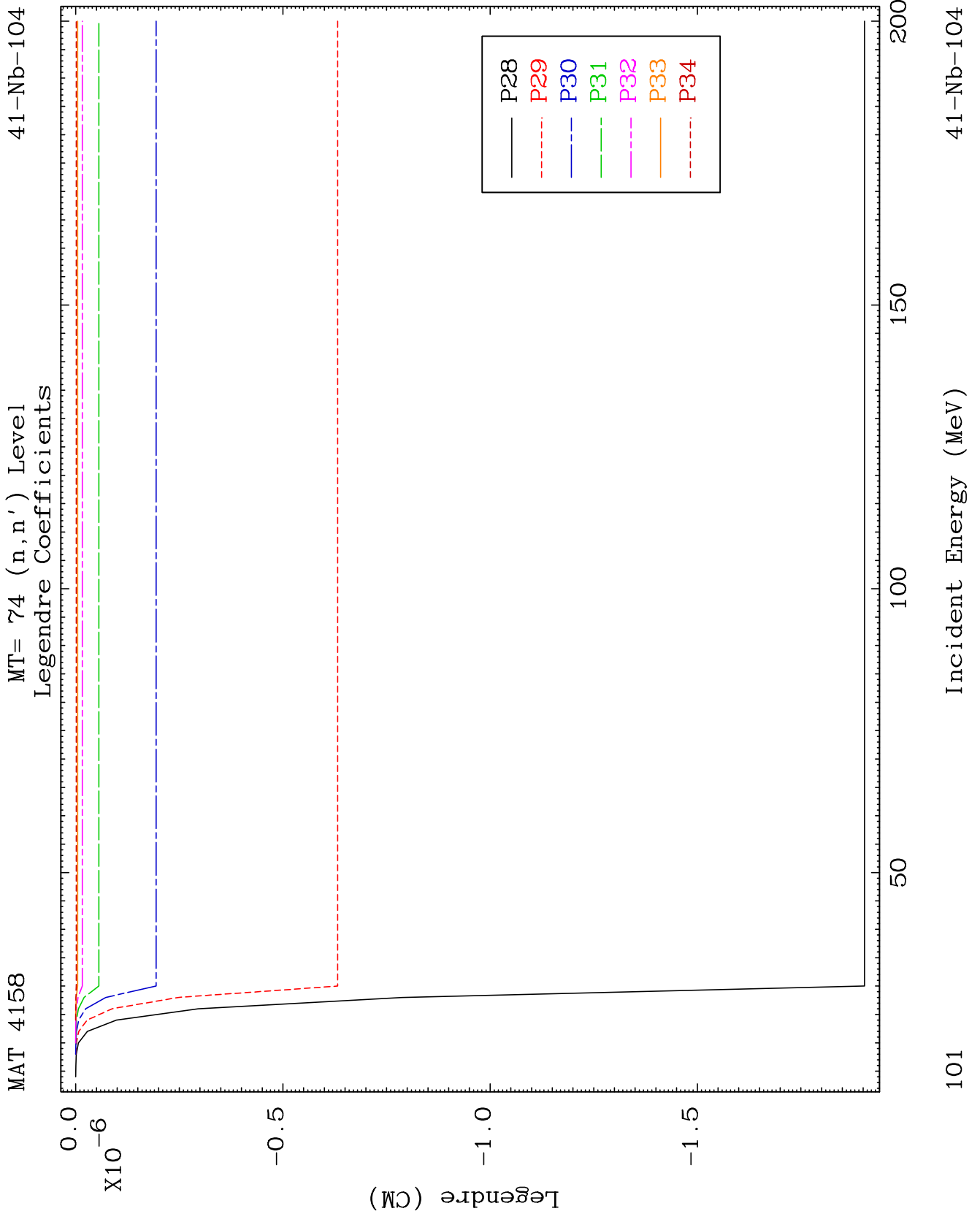


99

Incident Energy (MeV)

41-Nb-104

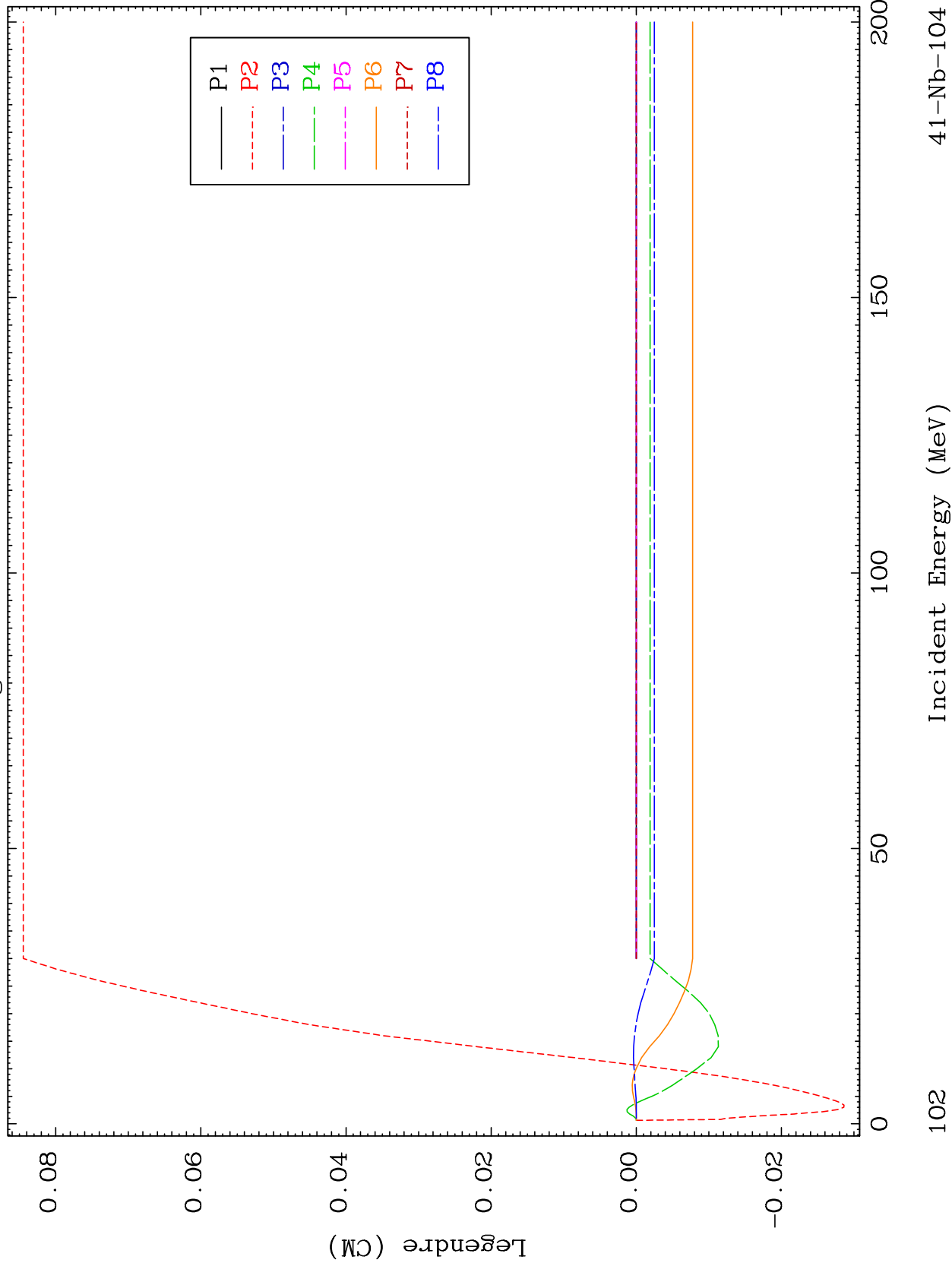




MAT 4158

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

41-Nb-104



41-Nb-104

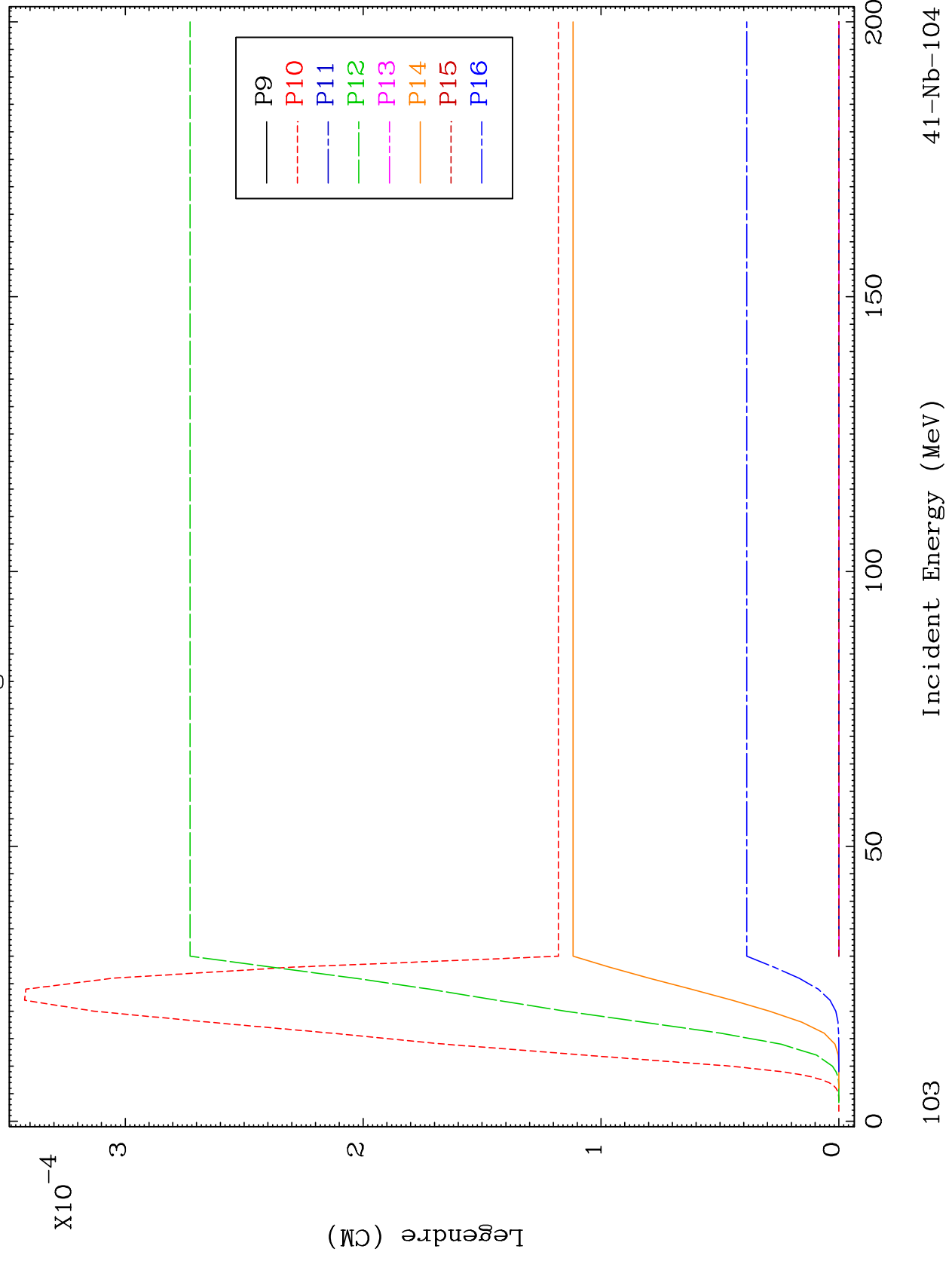
Incident Energy (MeV)

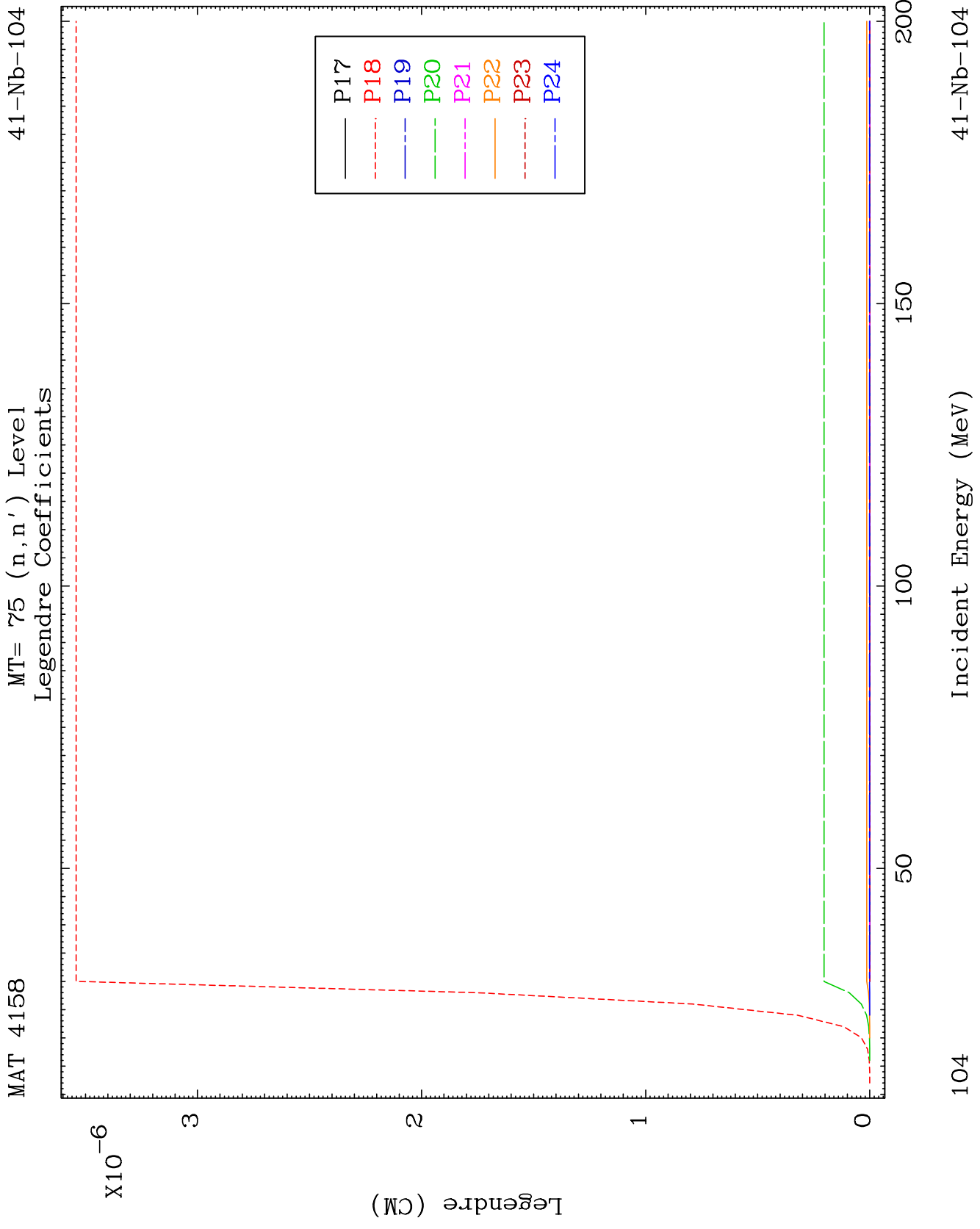
102

MAT 4158

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

41-Nb-104

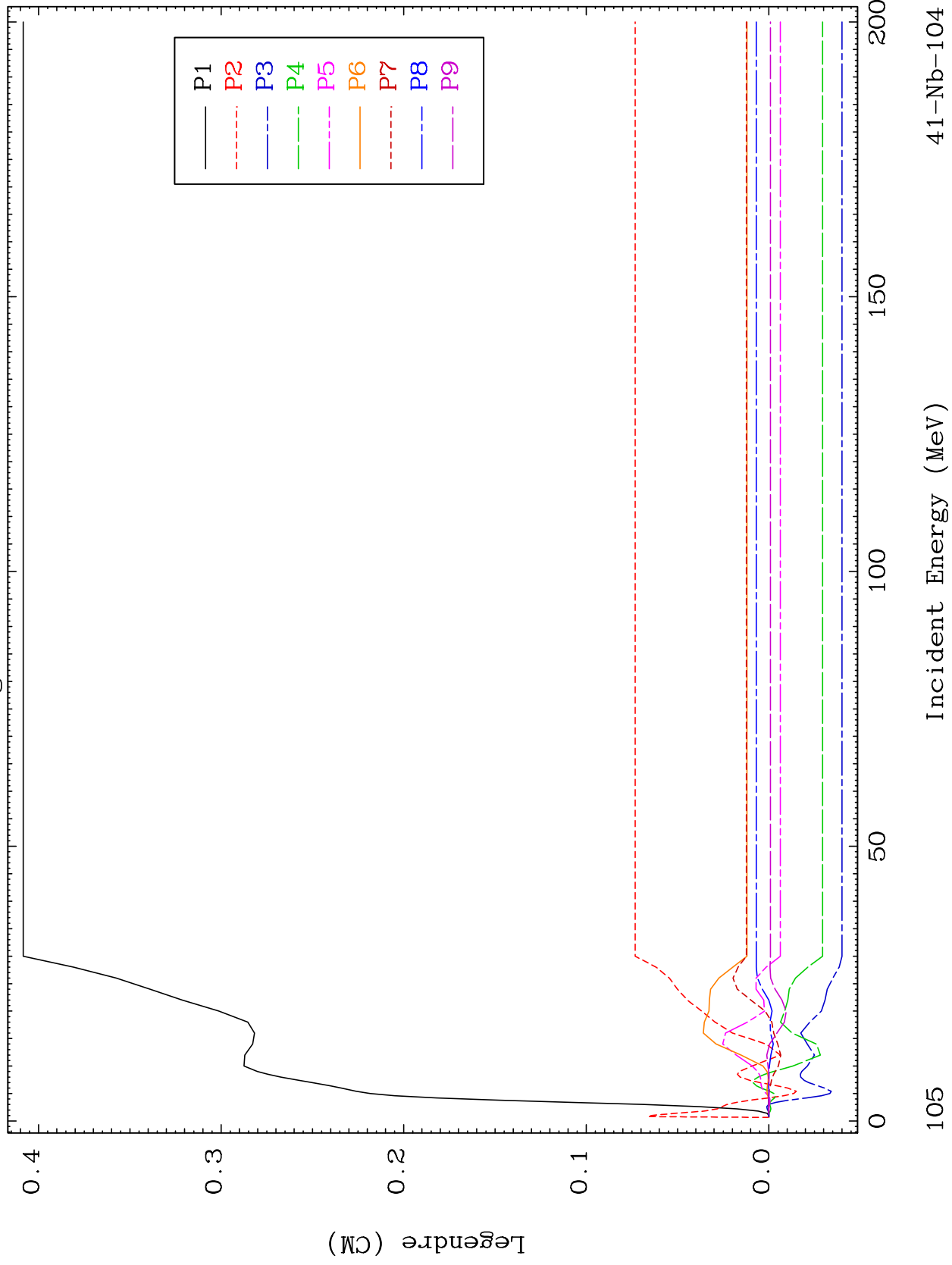




MAT 4158

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

41-Nb-104



41-Nb-104

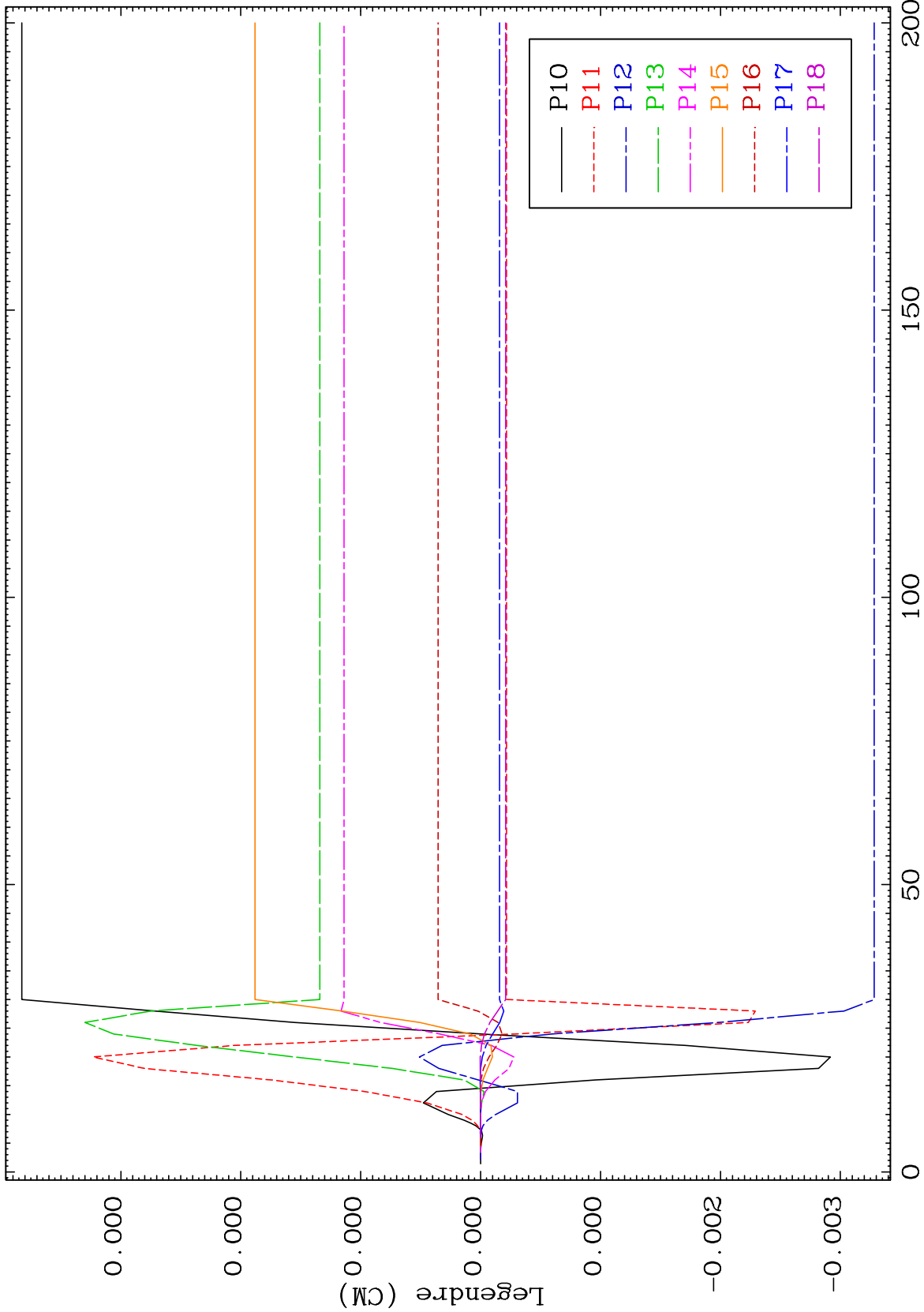
Incident Energy (MeV)

105

MAT 4158

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

41-Nb-104



106

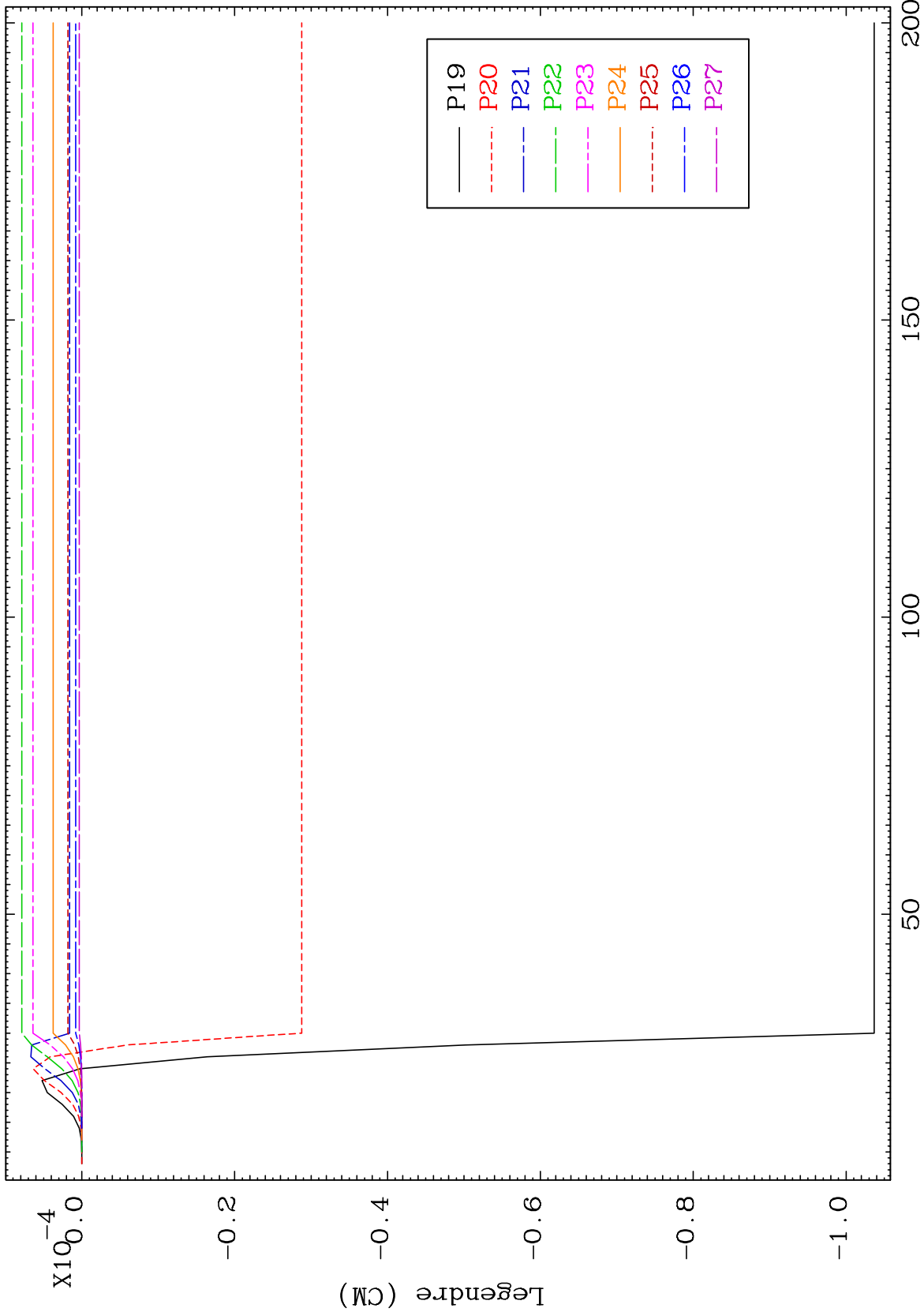
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



107

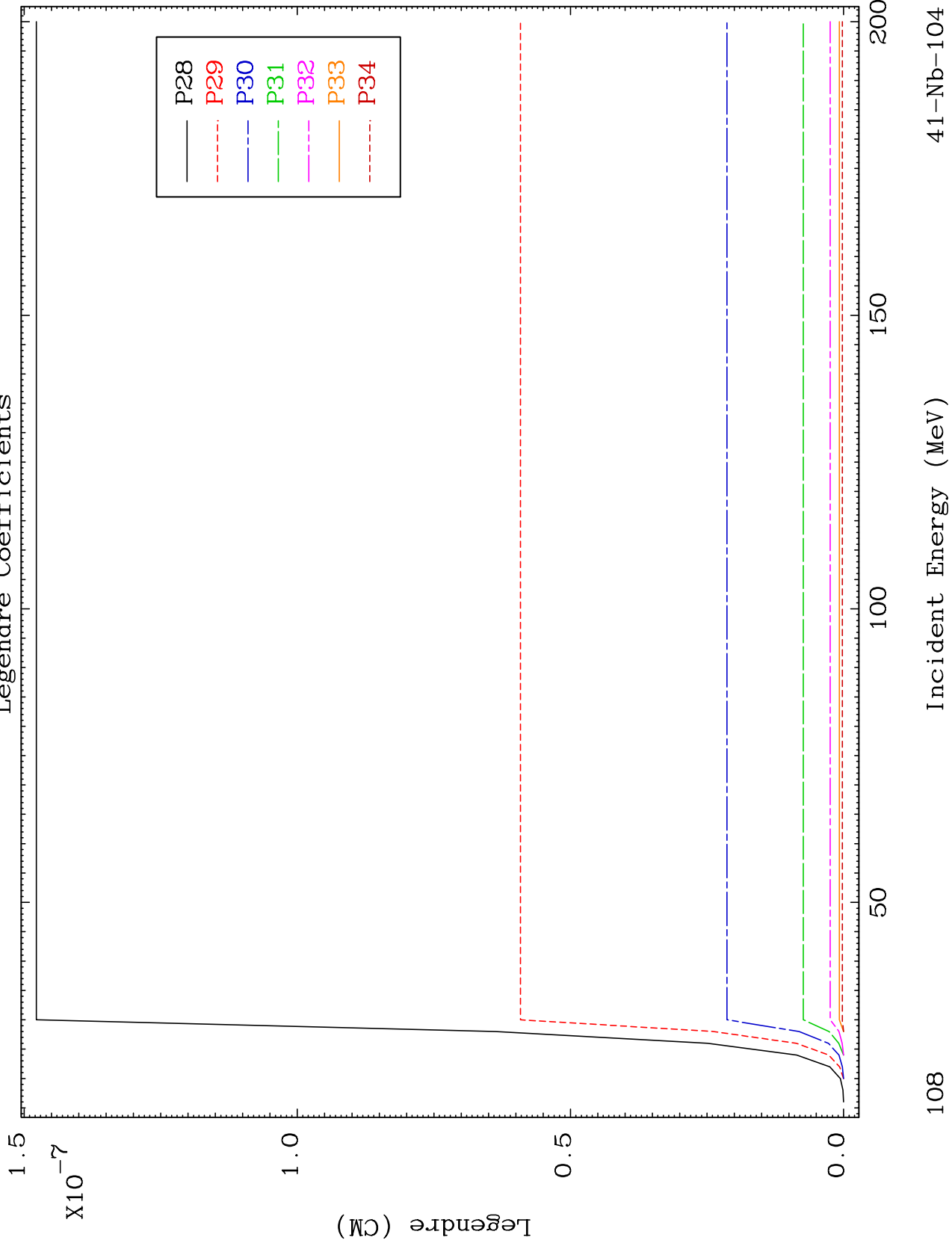
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



108

Incident Energy (MeV)

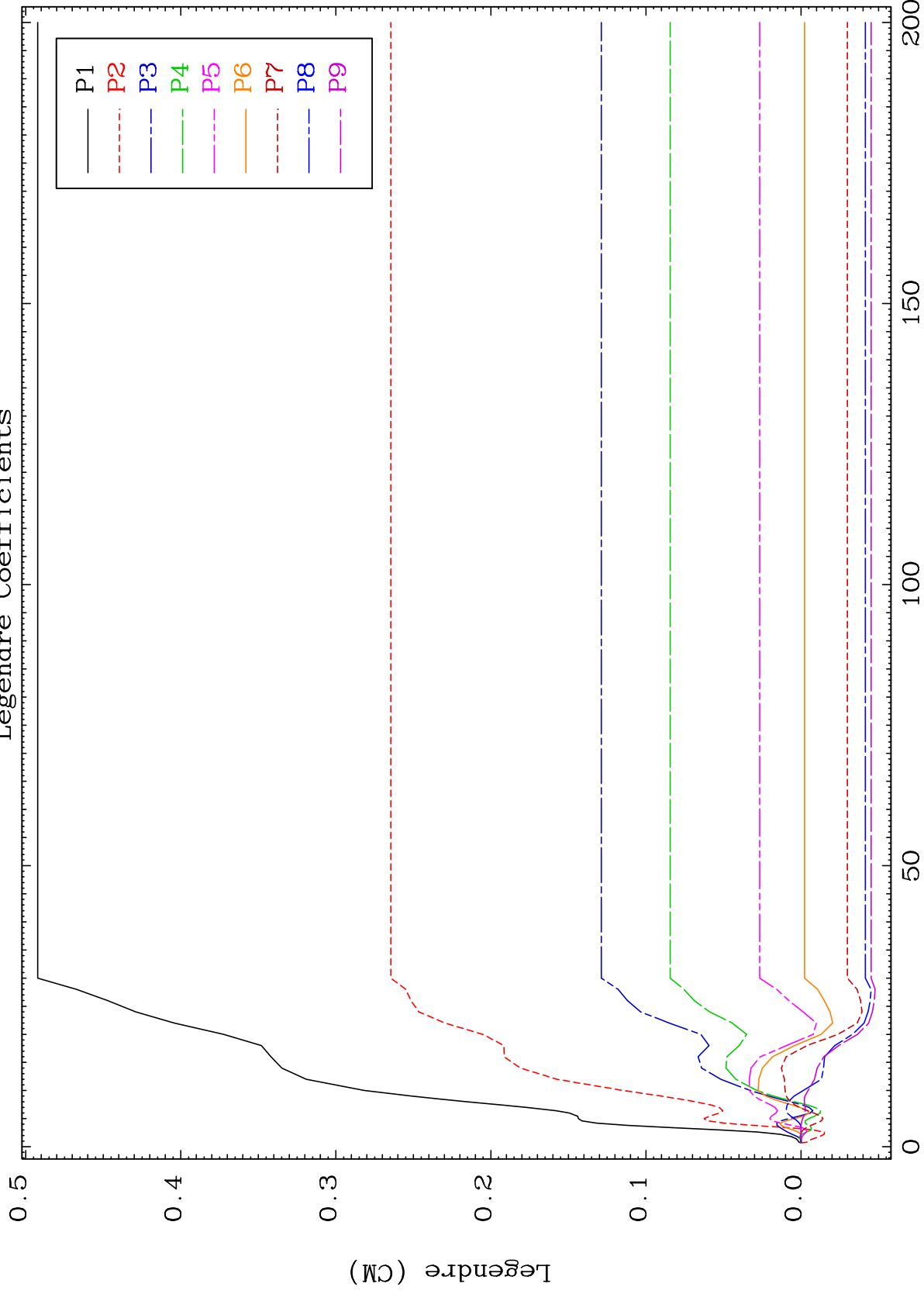
41-Nb-104

MAT 4158

MT= 77 (n,n') Level

41-Nb-104

Legendre Coefficients



109

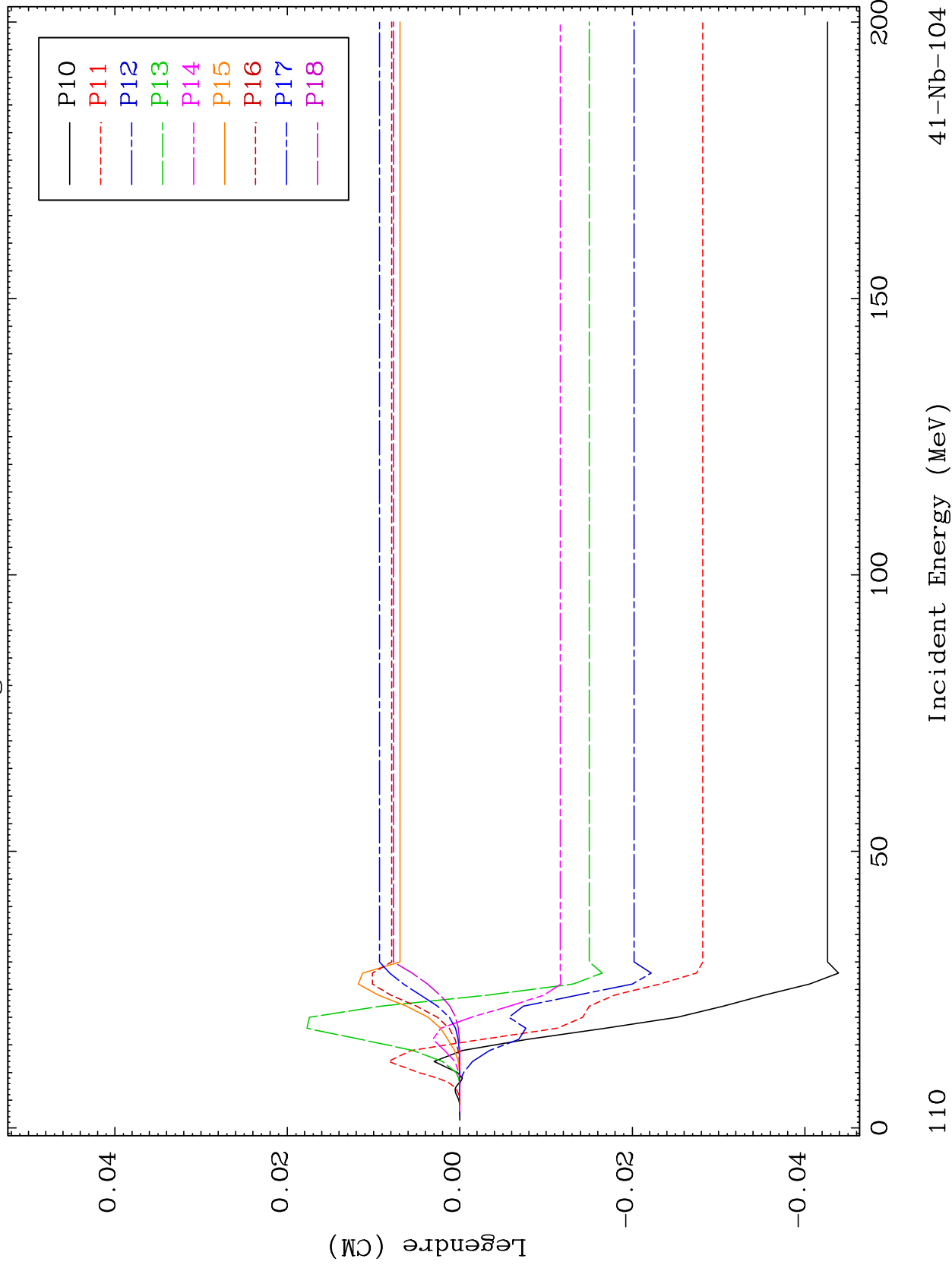
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



110

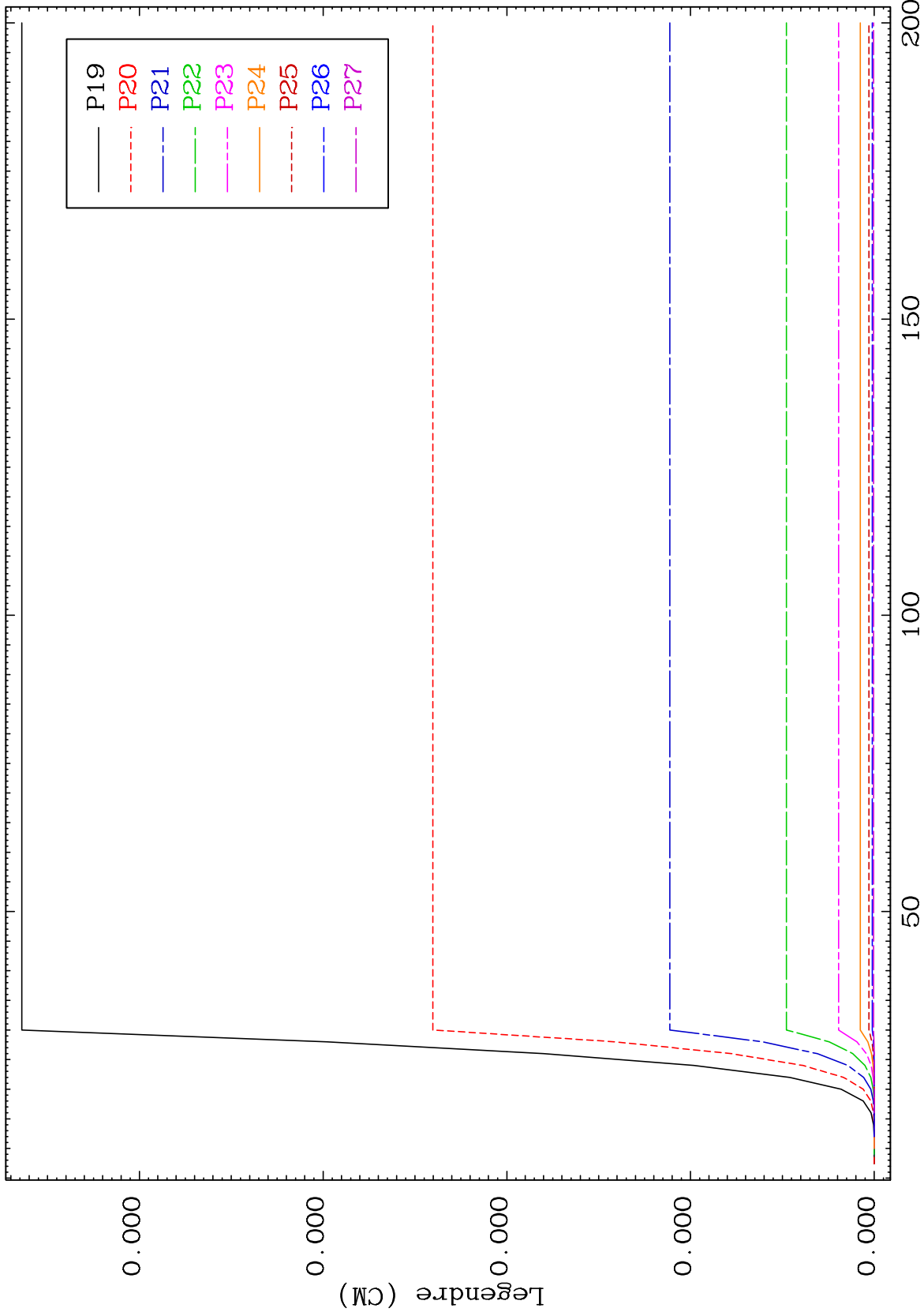
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104



111

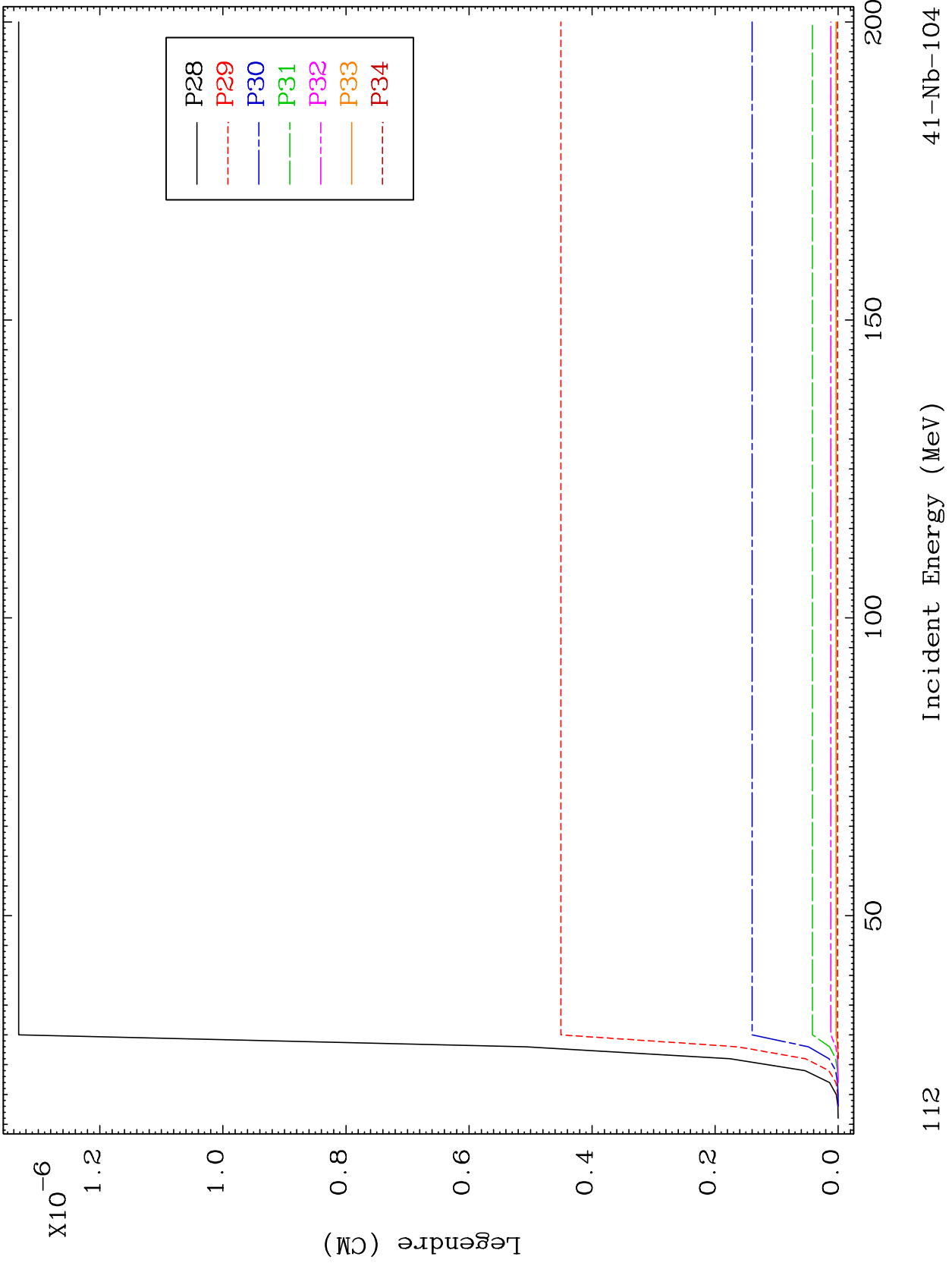
Incident Energy (MeV)

41-Nb-104

MAT 4158

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

41-Nb-104

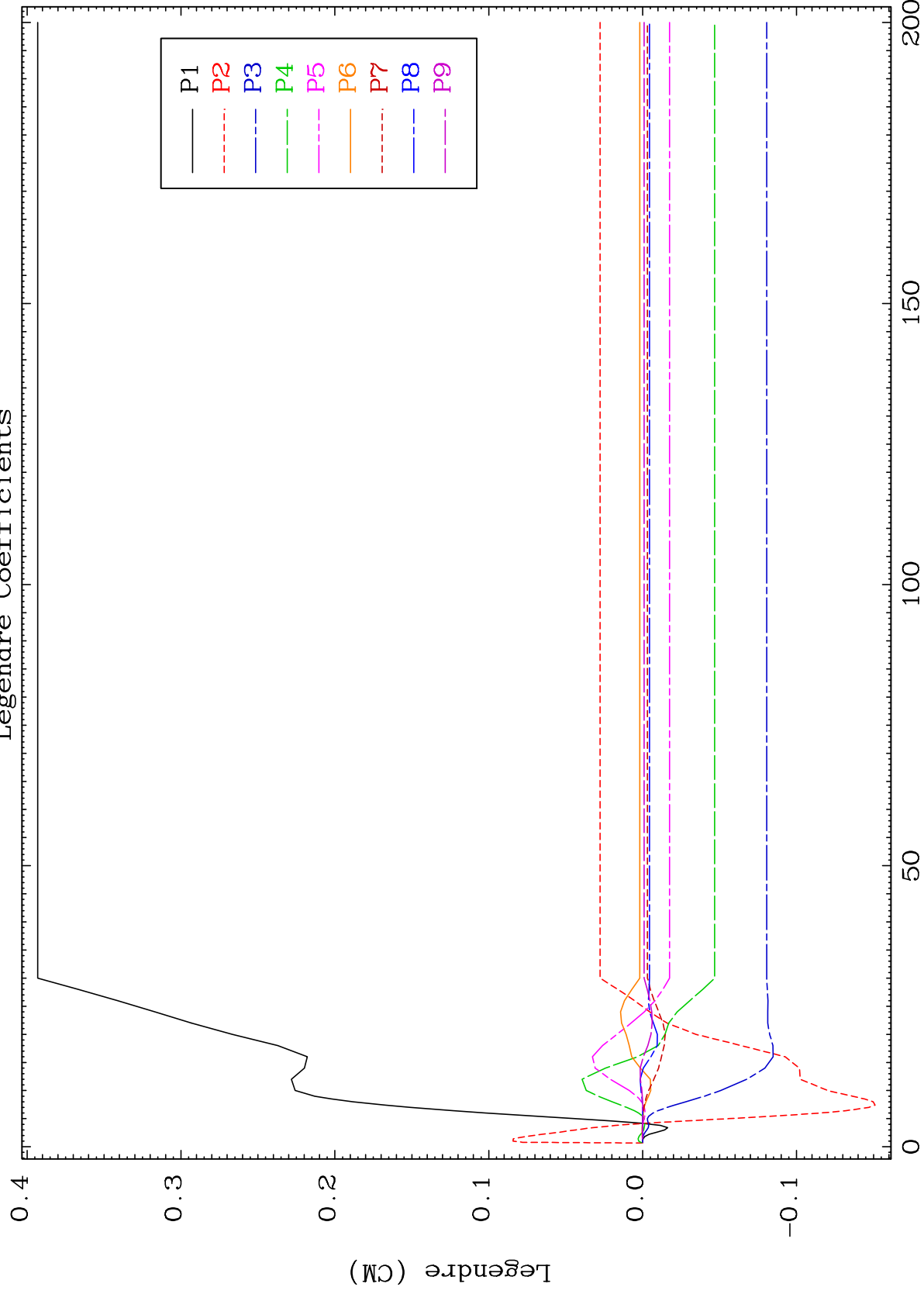


112

MAT 4158

MT= 78 (n,n') Level
Legendre Coefficients

41-Nb-104



113

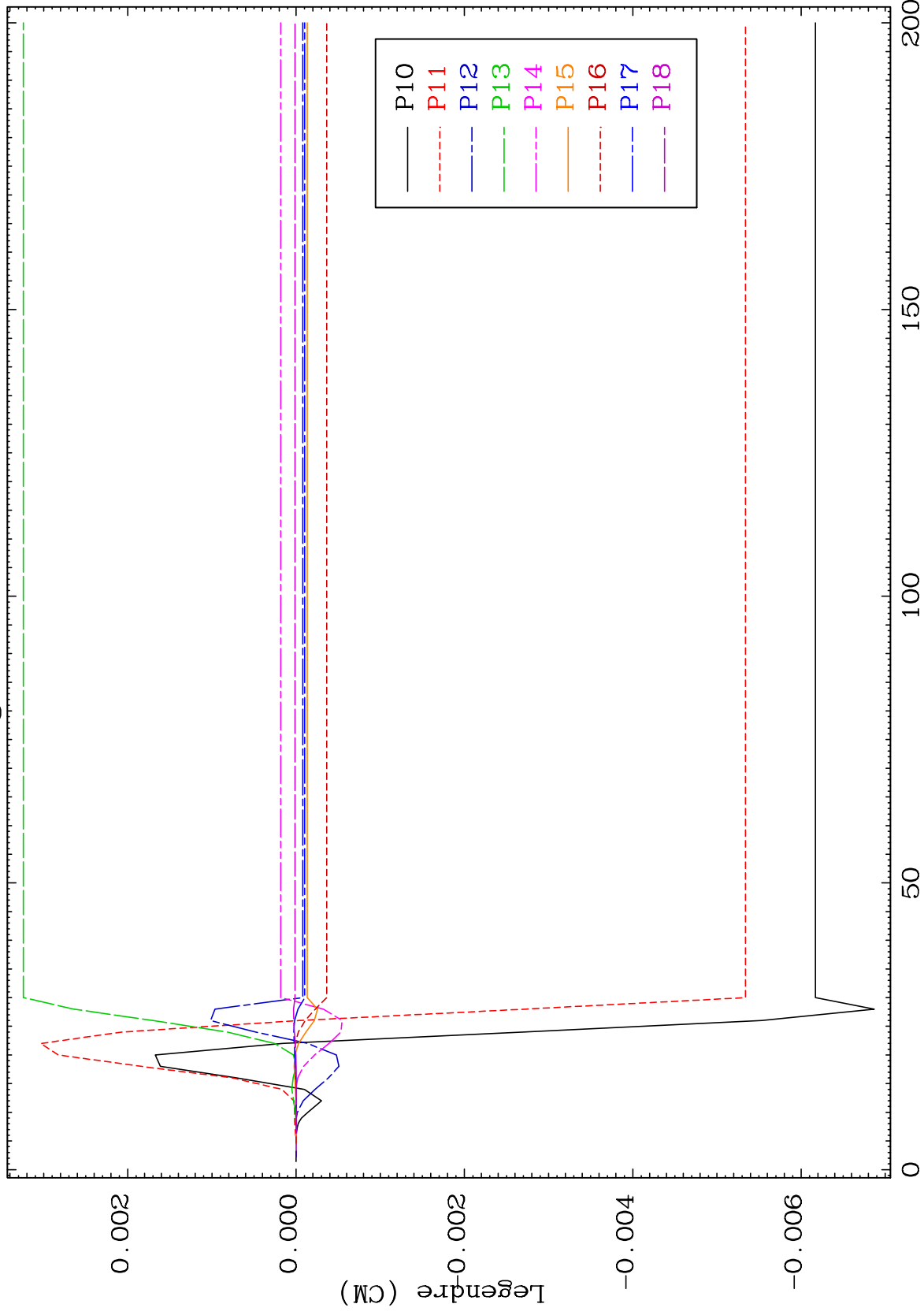
Incident Energy (MeV)

41-Nb-104

MAT 4158

MT= 78 (n,n') Level
Legendre Coefficients

41-Nb-104



114

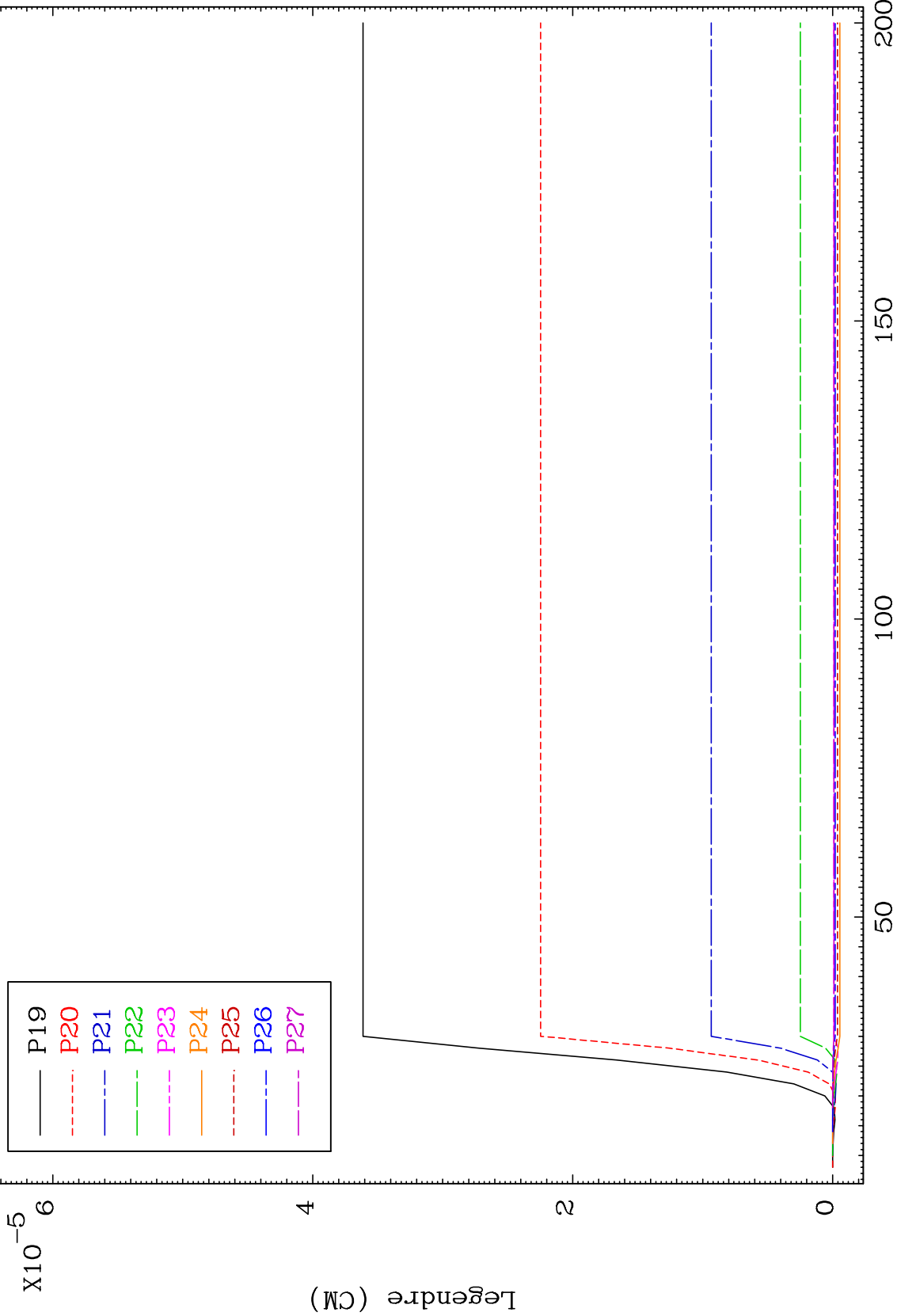
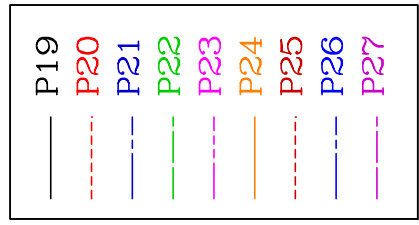
Incident Energy (MeV)

41-Nb-104

MAT 4158

MT= 78 (n,n') Level
Legendre Coefficients

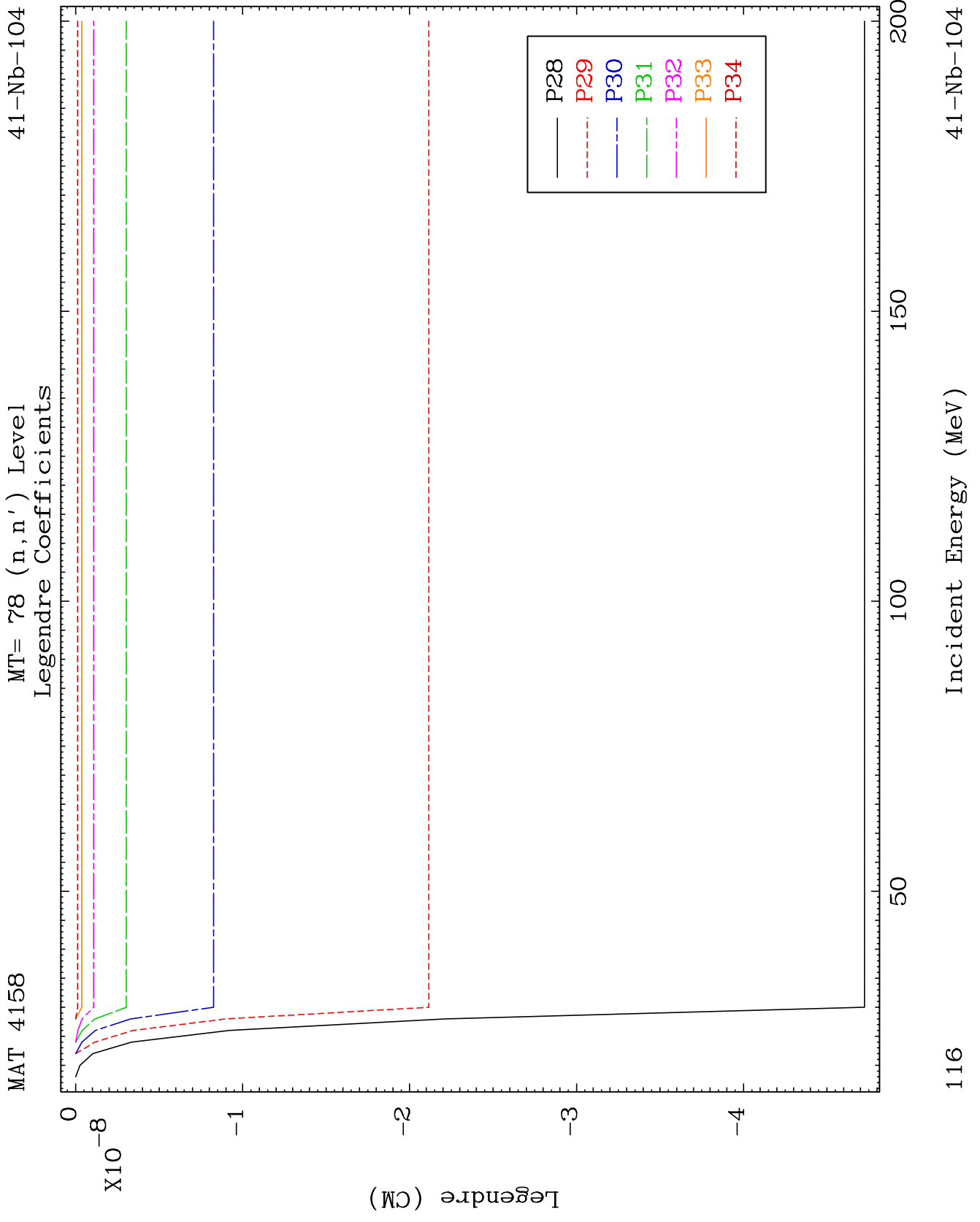
41-Nb-104

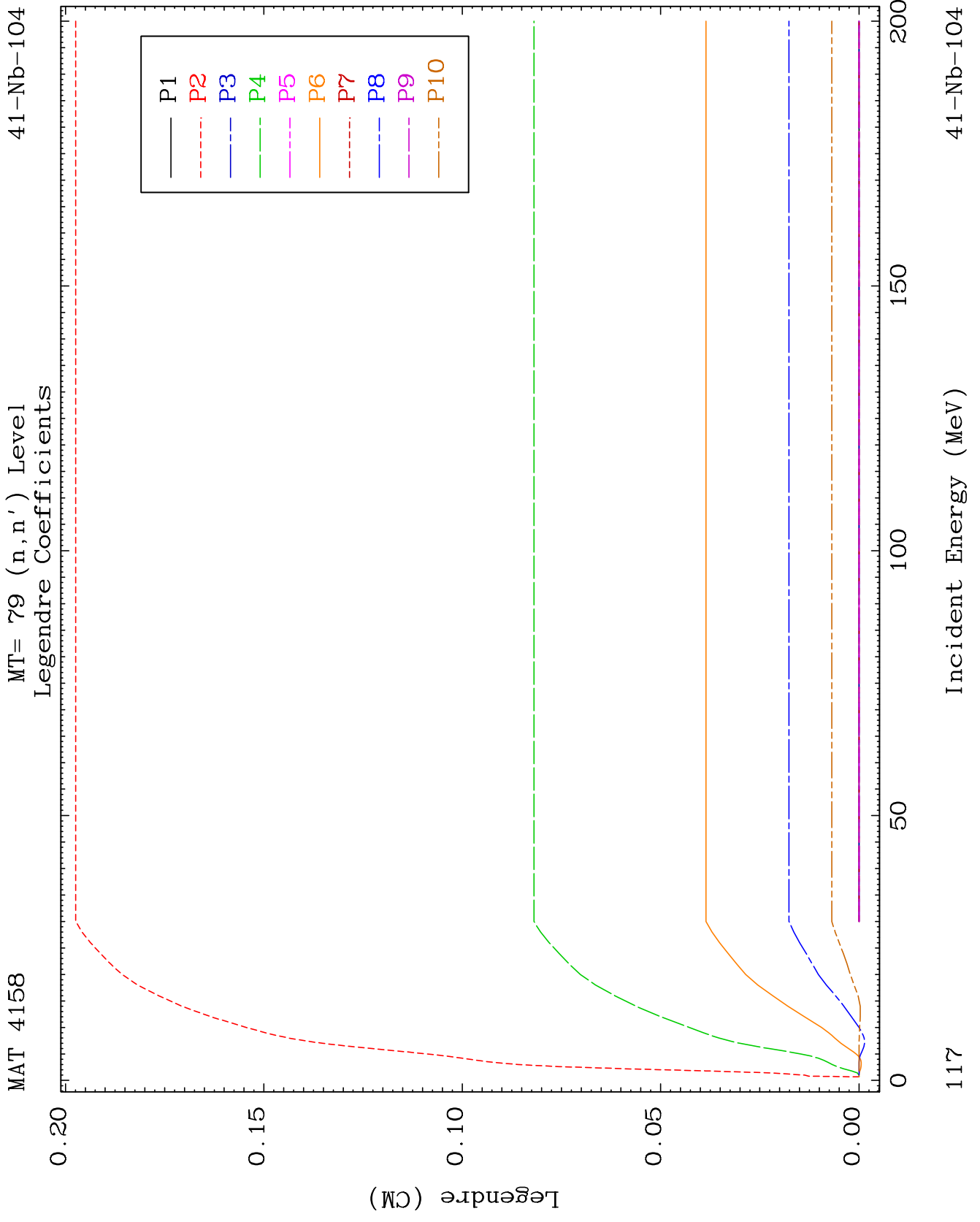


115

Incident Energy (MeV)

41-Nb-104

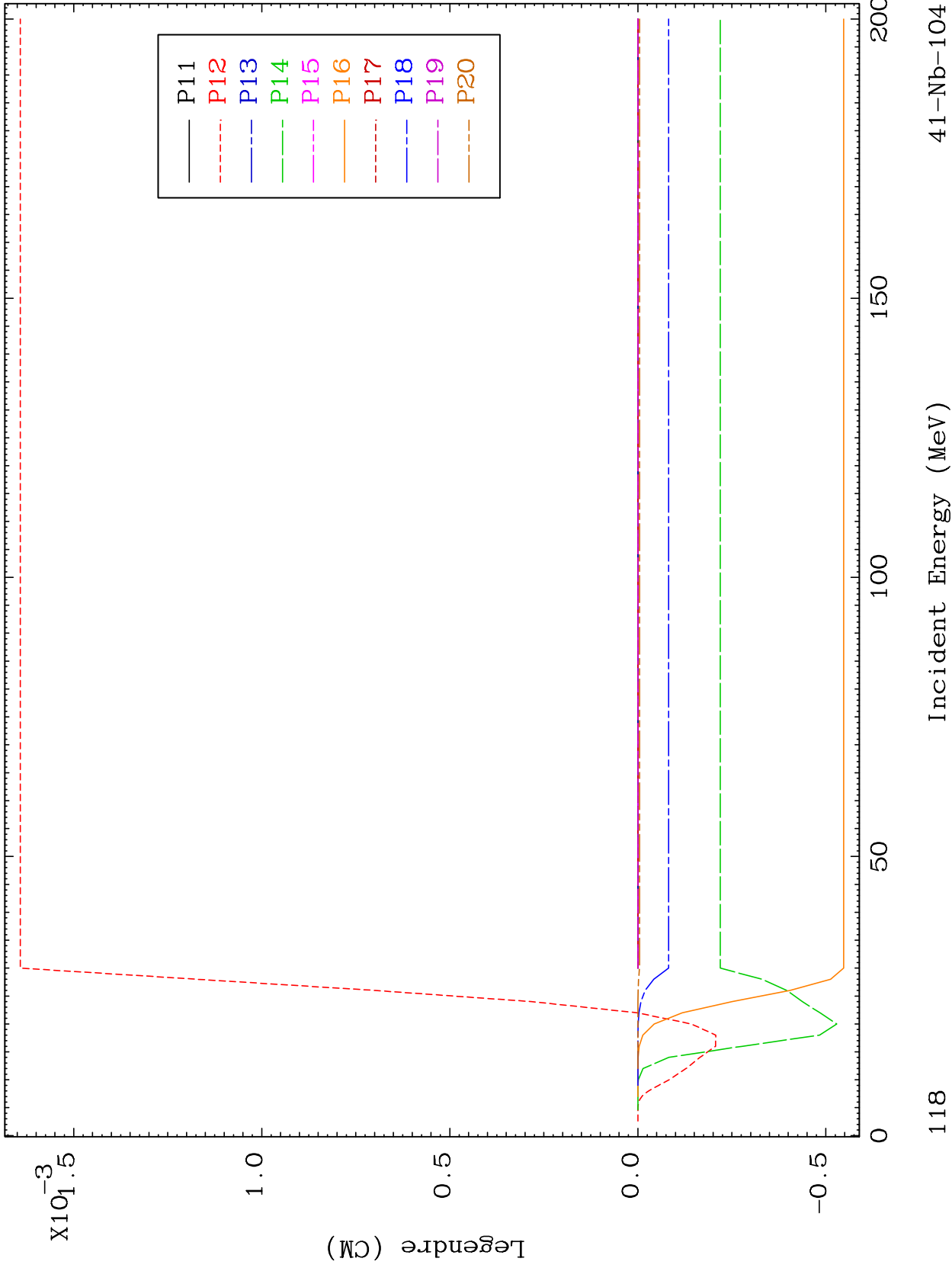


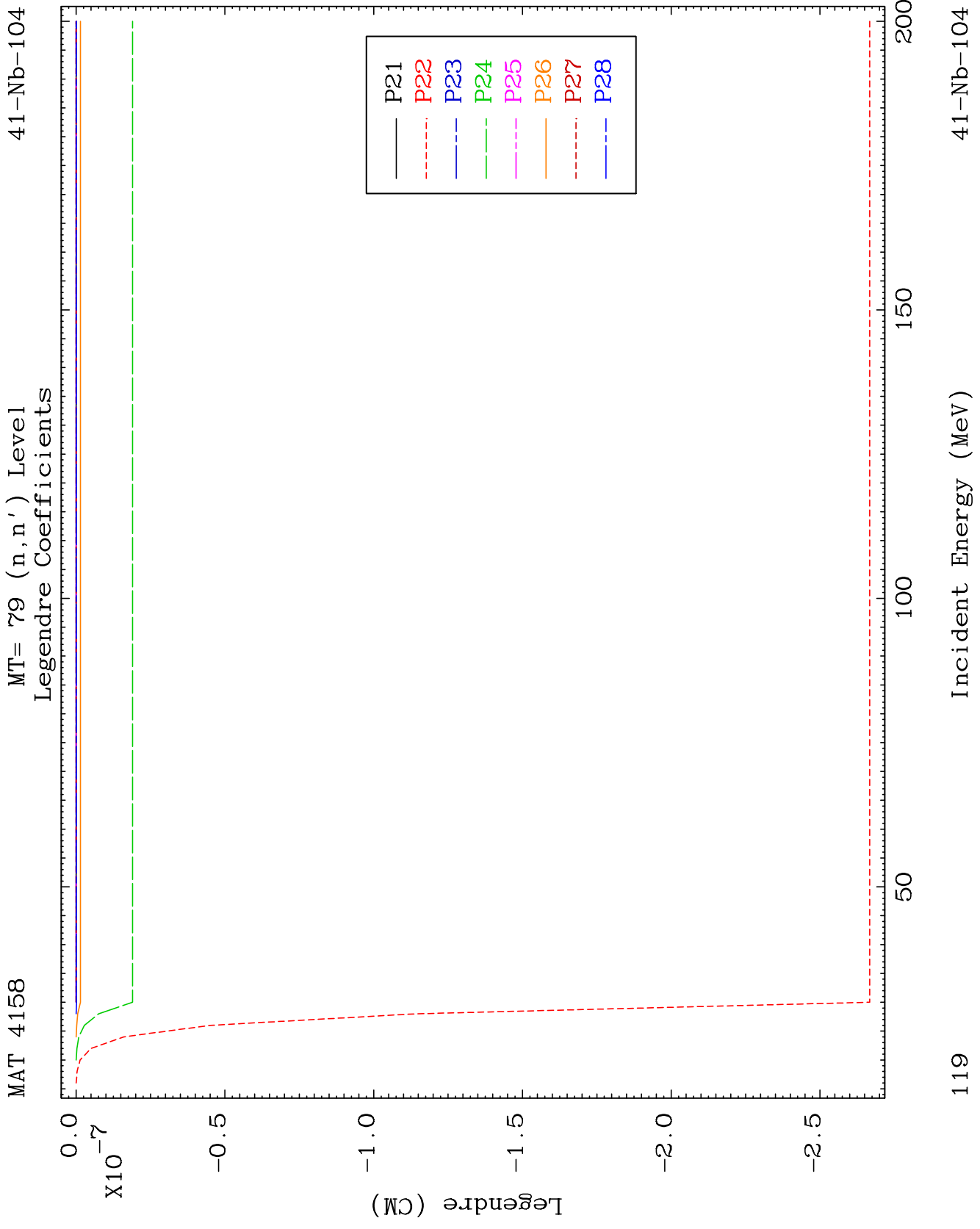


MAT 4158

MT= 79 (n,n') Level
Legendre Coefficients

41-Nb-104

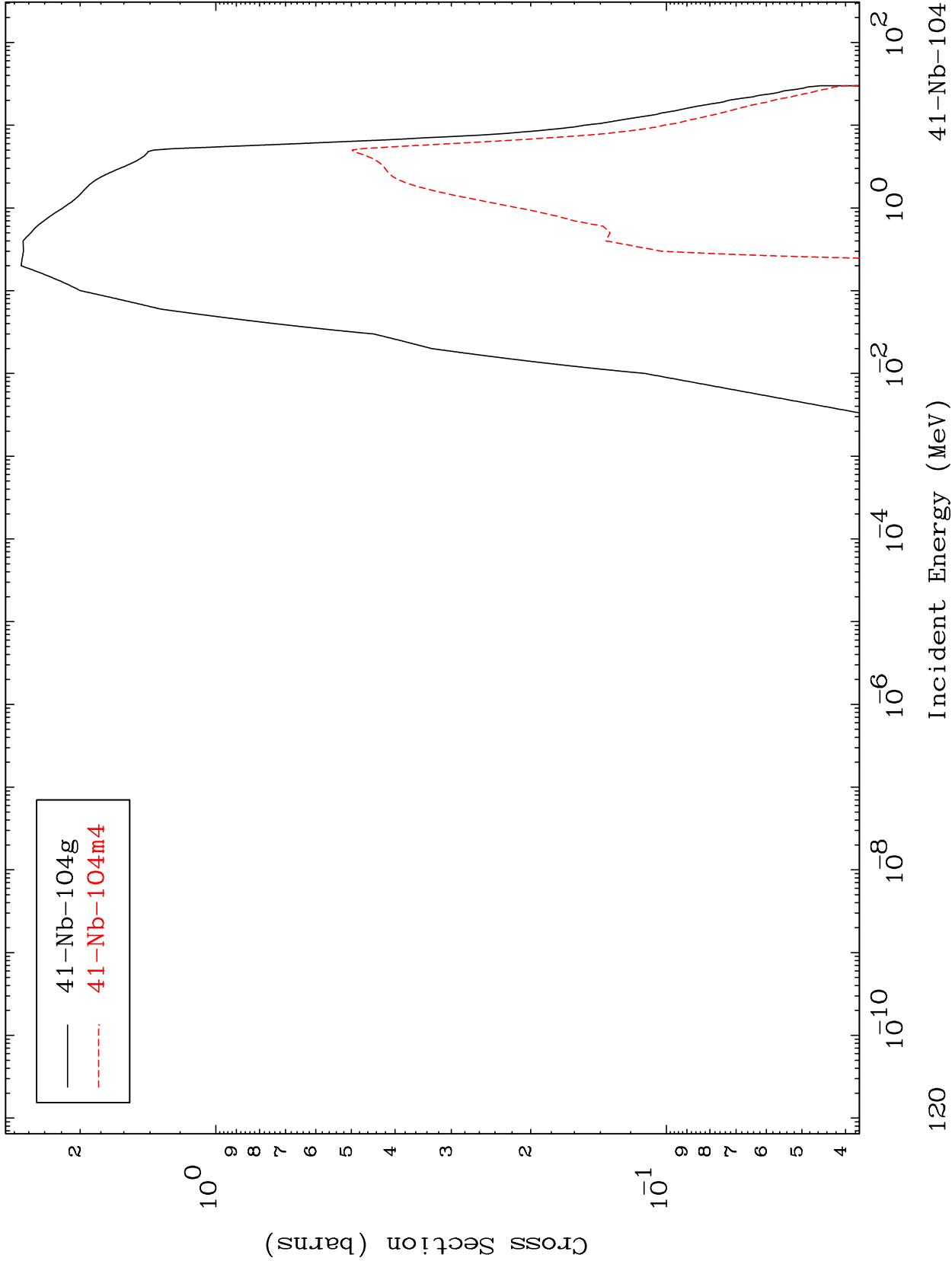




MAT 4158

Radionuclide Production Cross Section

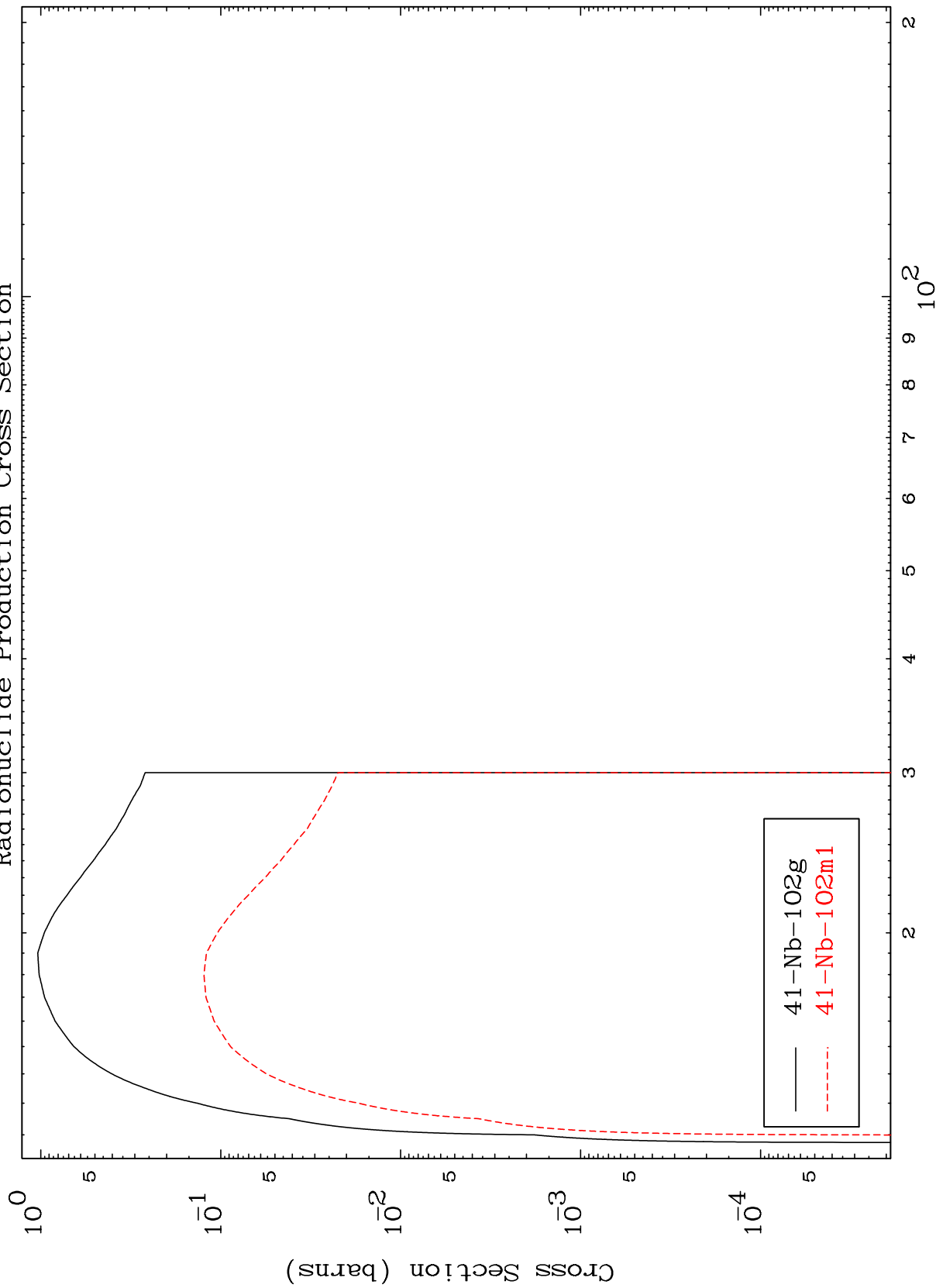
41-Nb-104



MAT 4158

41-Nb-104

Radionuclide Production Cross Section



41-Nb-102g
41-Nb-102m1

121

Incident Energy (MeV)

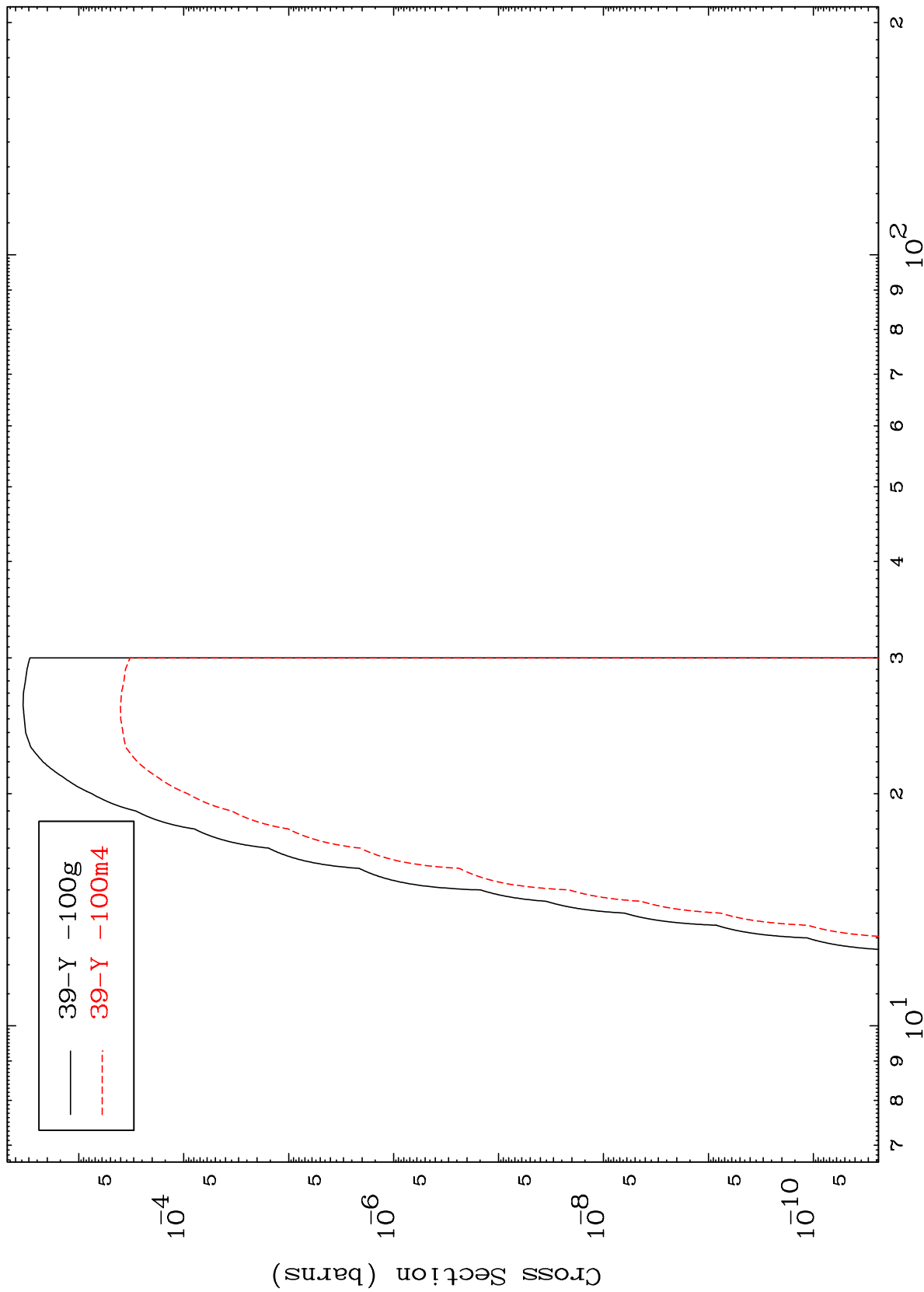
41-Nb-104

MAT 4158

$(n, n') \alpha$

41-Nb-104

Radionuclide Production Cross Section



122

Incident Energy (MeV)

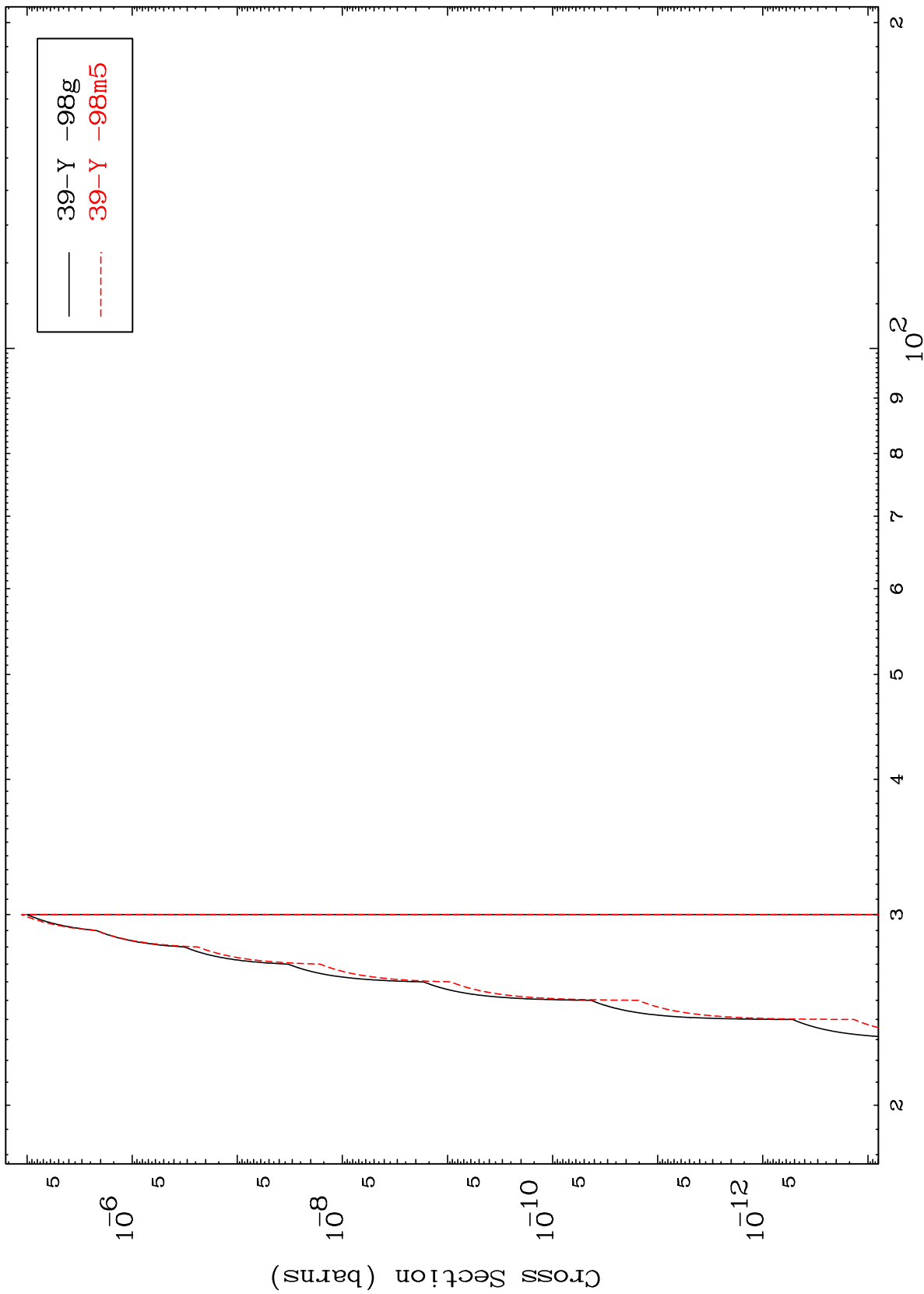
41-Nb-104

MAT 4158

(n,3n) α

41-Nb-104

Radionuclide Production Cross Section



123

Incident Energy (MeV)

41-Nb-104