

Program EVALPLOT
(Version 2021-1)

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

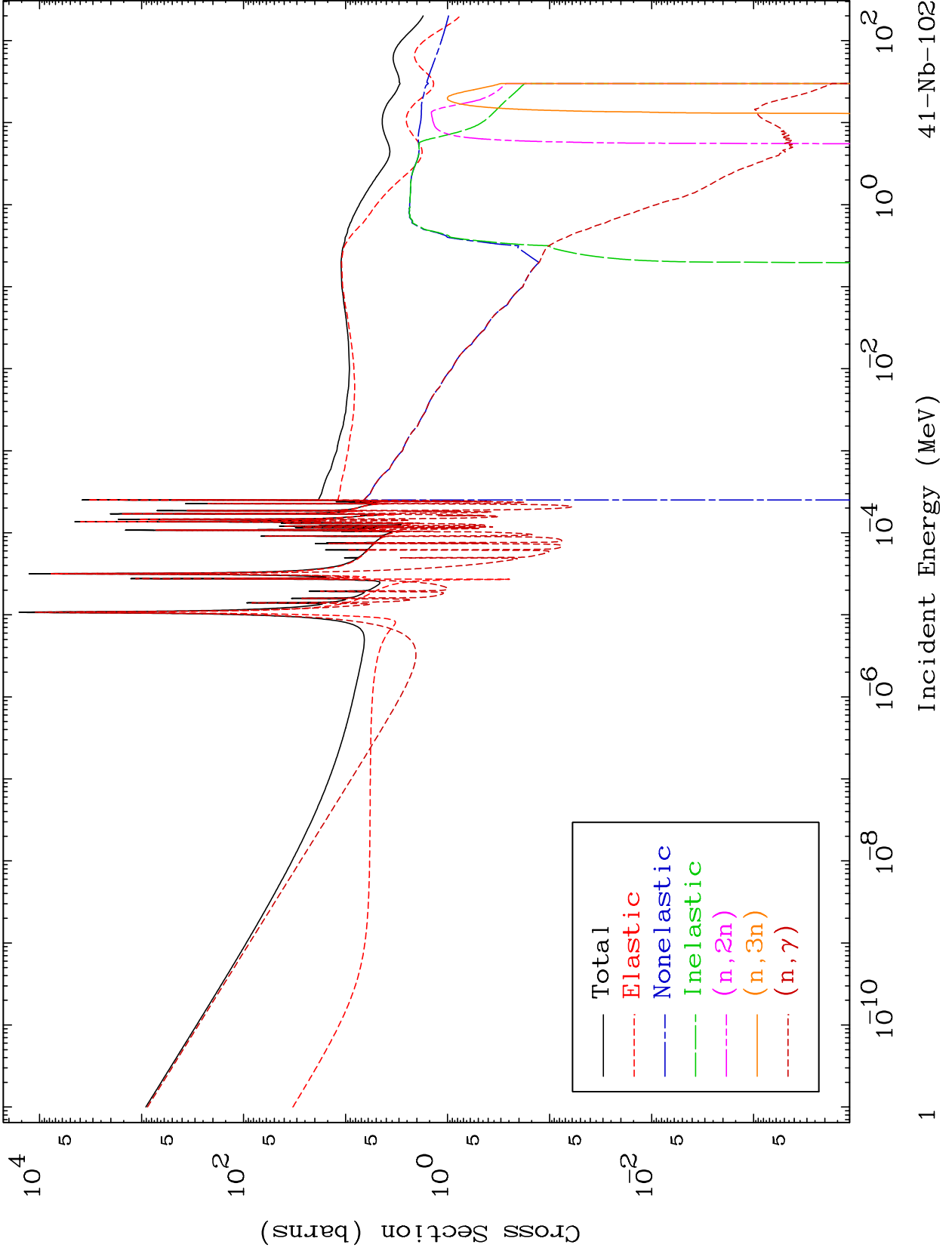
Web:redcullen1.net/HOMEPAGE.NEW

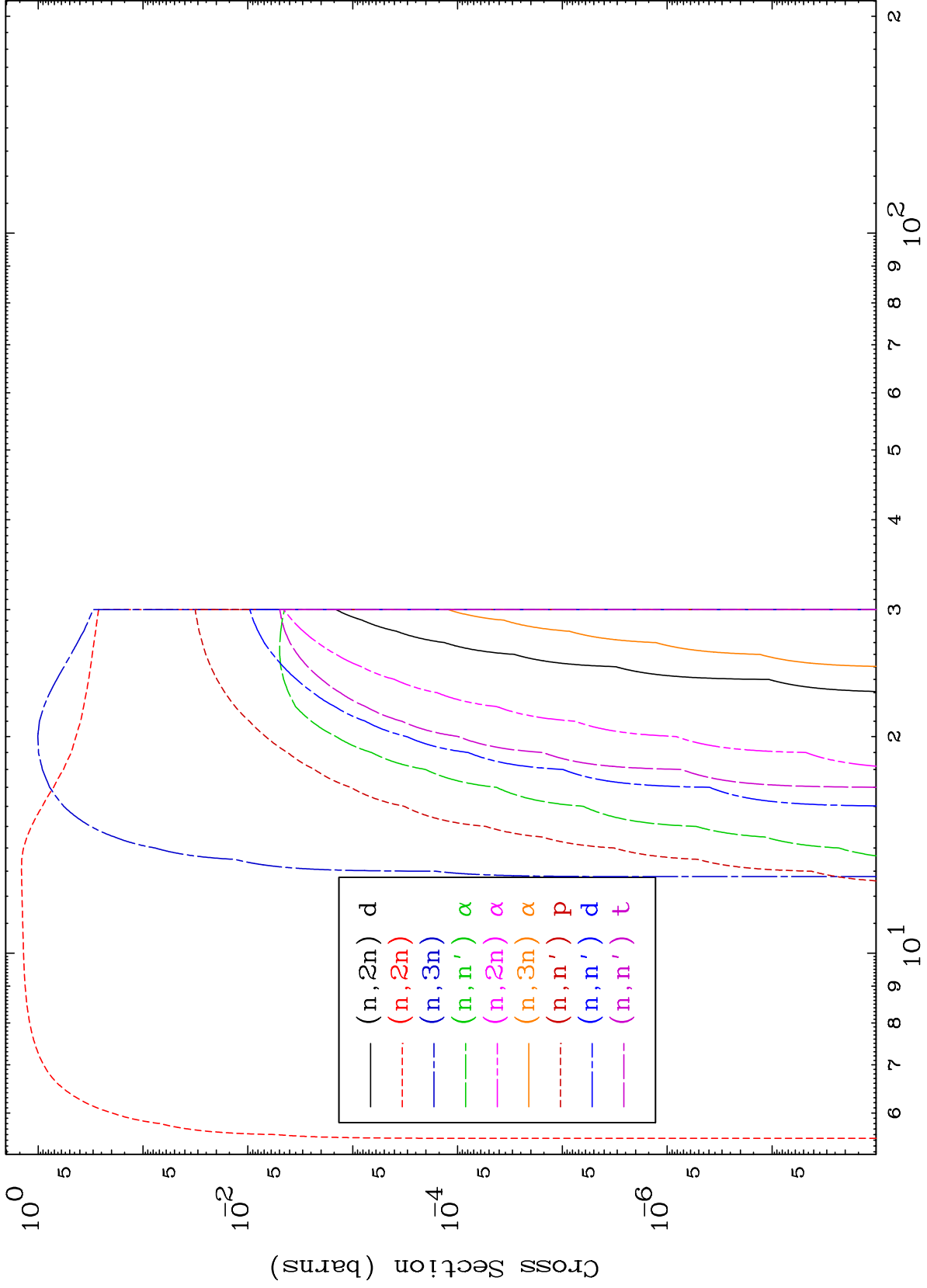
Press Mouse Button to Start

MAT 4152

Neutron Major
293 Kelvin Cross Sections

41-Nb-102

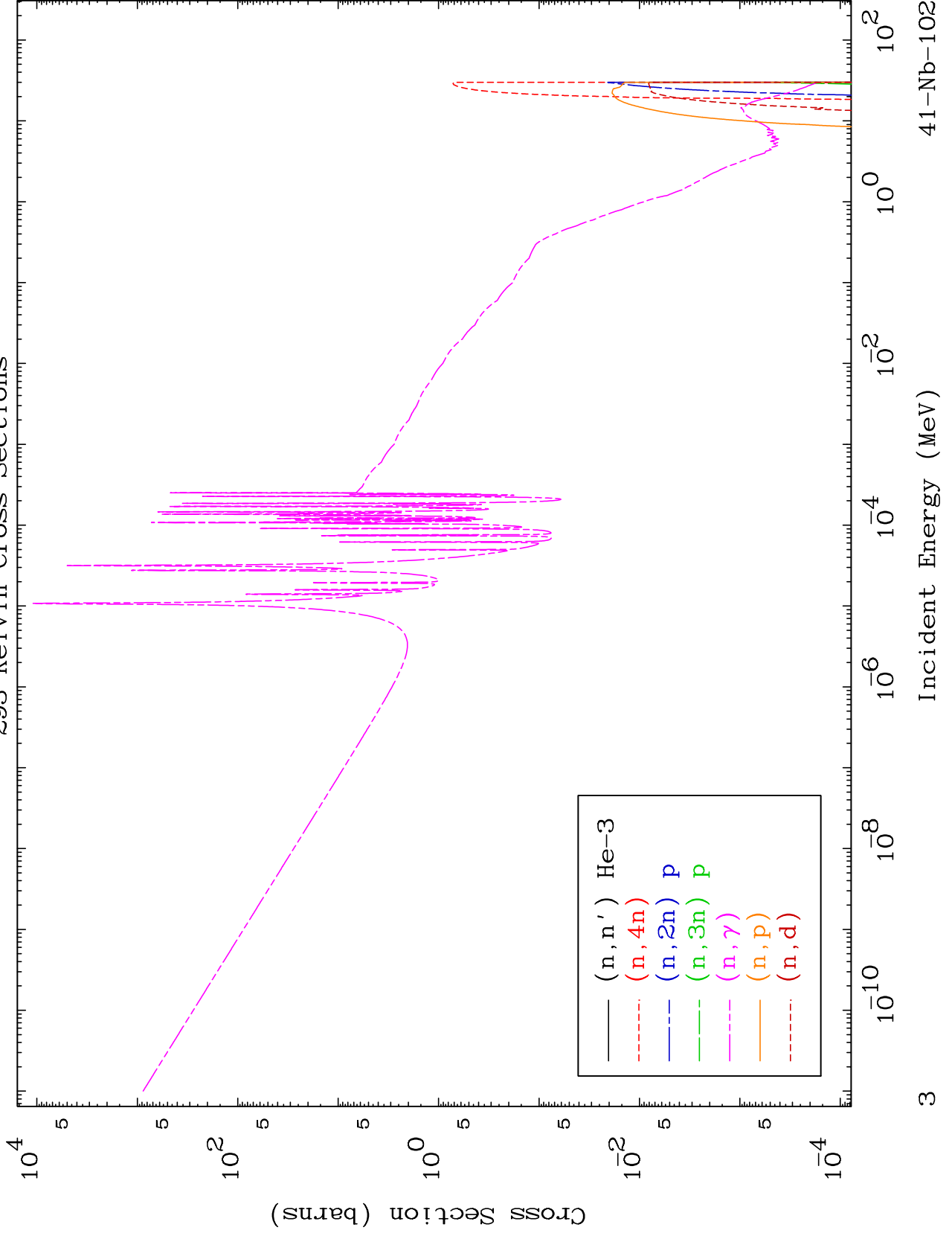




MAT 4152

Neutron Absorption
293 Kelvin Cross Sections

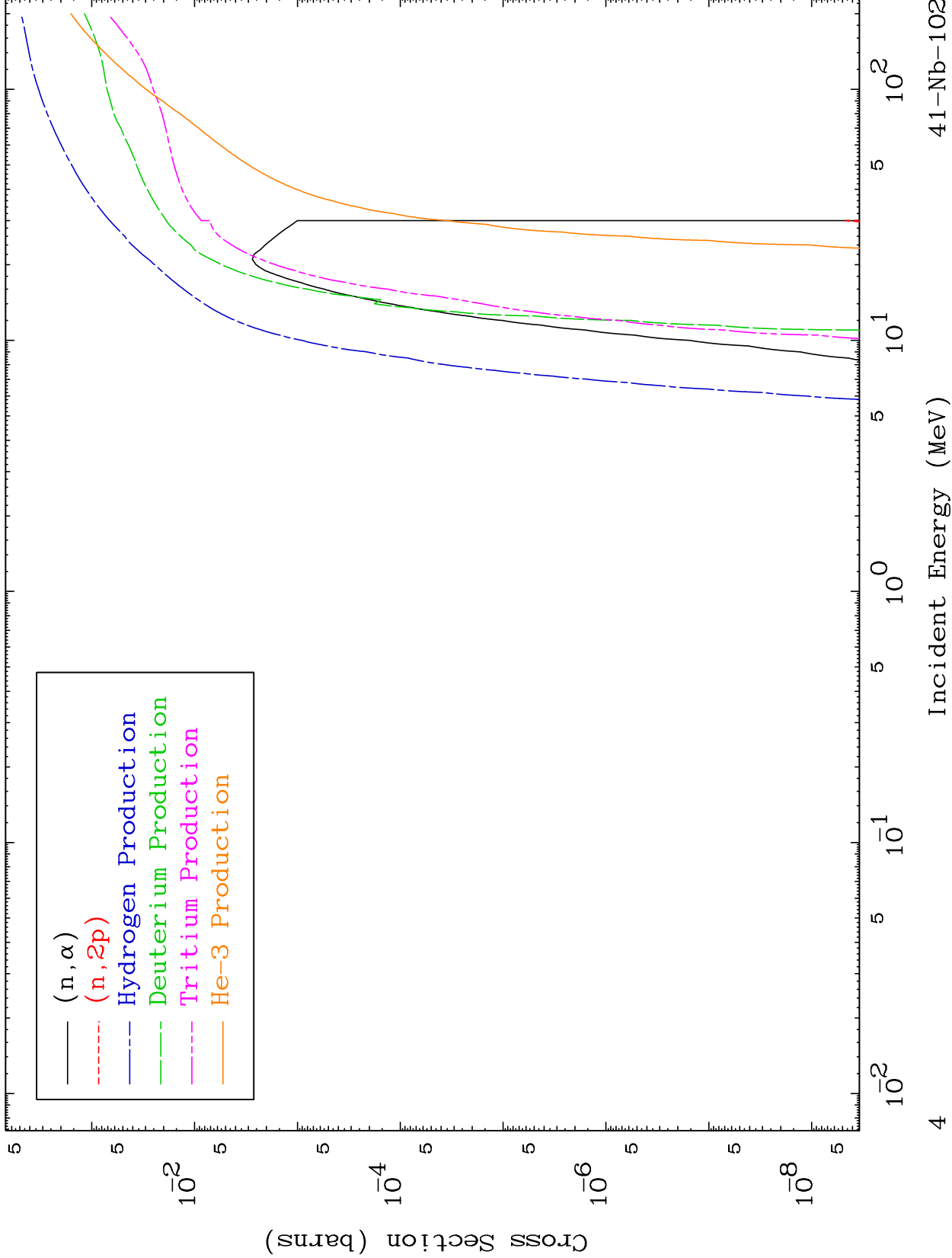
41-Nb-102



MAT 4152

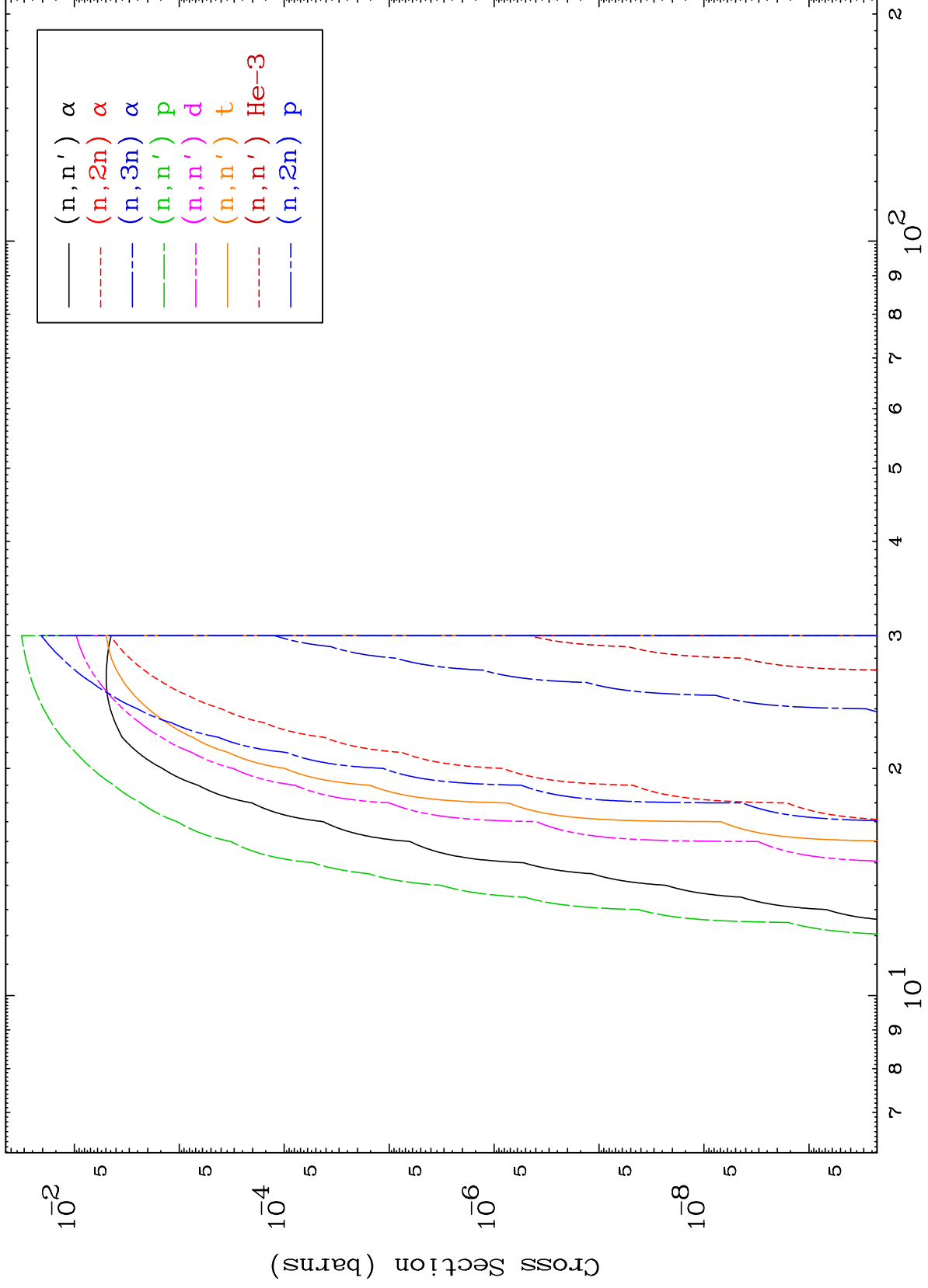
Neutron Absorption
293 Kelvin Cross Sections

41-Nb-102



4

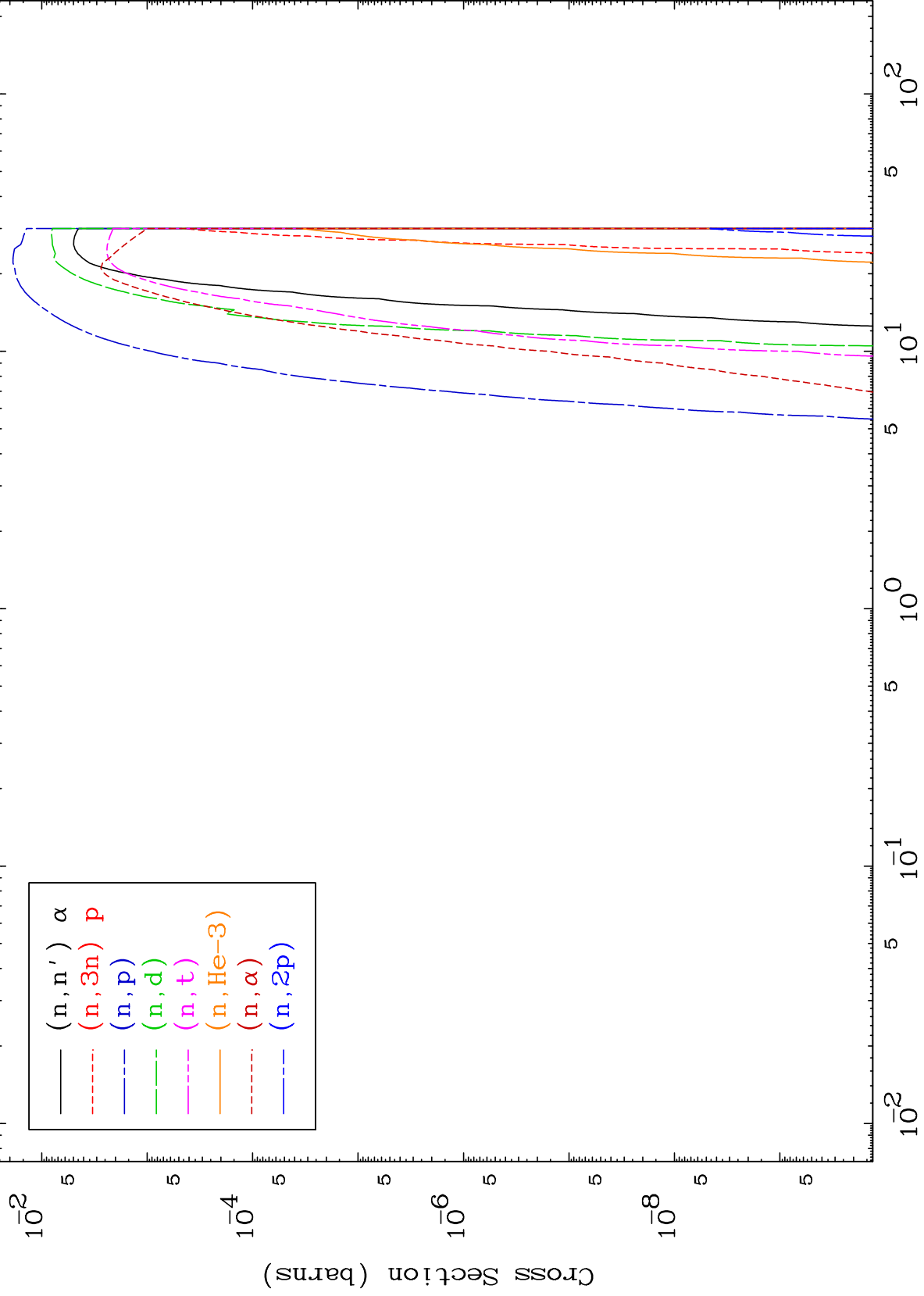
41-Nb-102



MAT 4152

Charged Particle
293 Kelvin Cross Sections

41-Nb-102



41-Nb-102

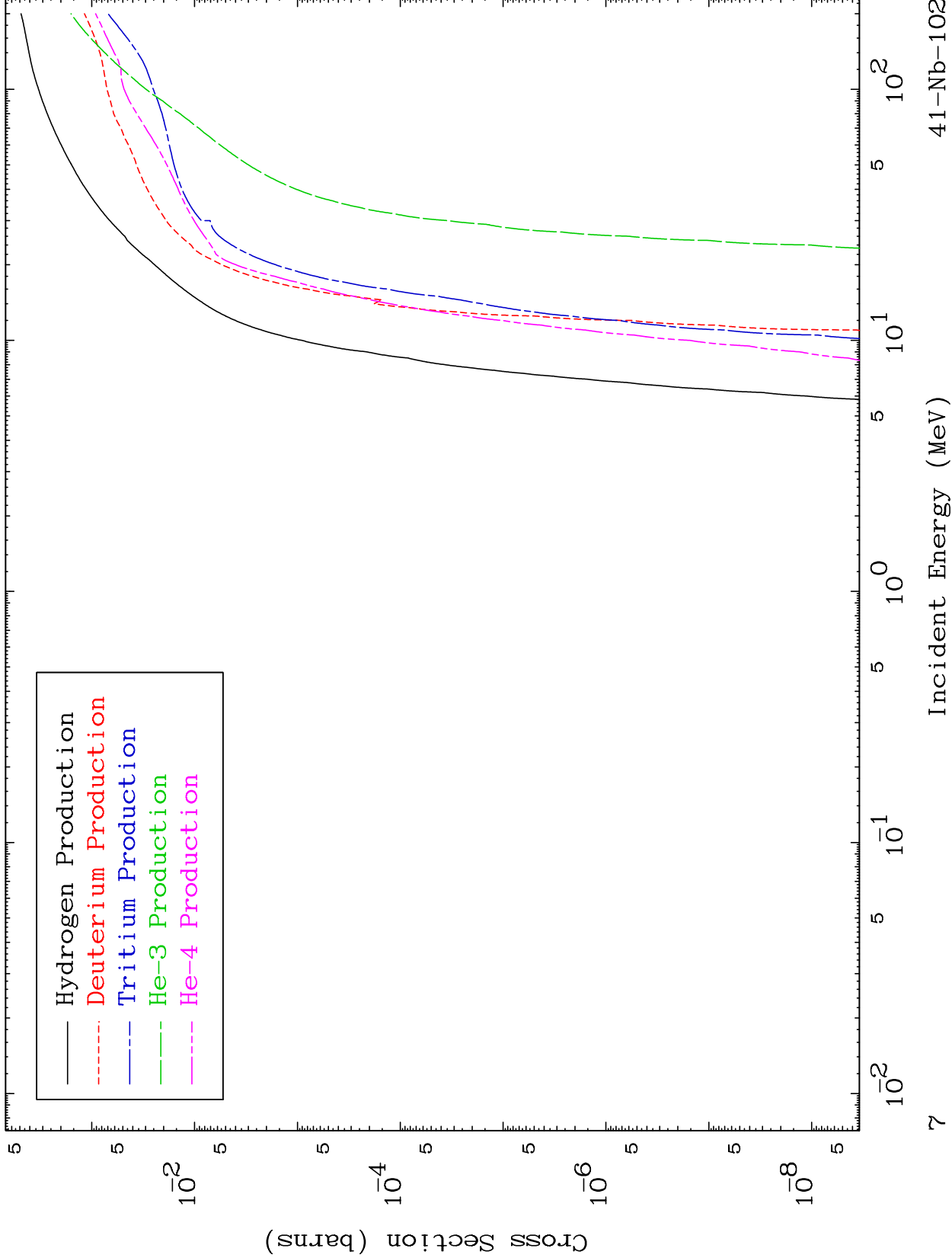
Incident Energy (MeV)

6

MAT 4152

Particle Production
293 Kelvin Cross Sections

41-Nb-102



41-Nb-102

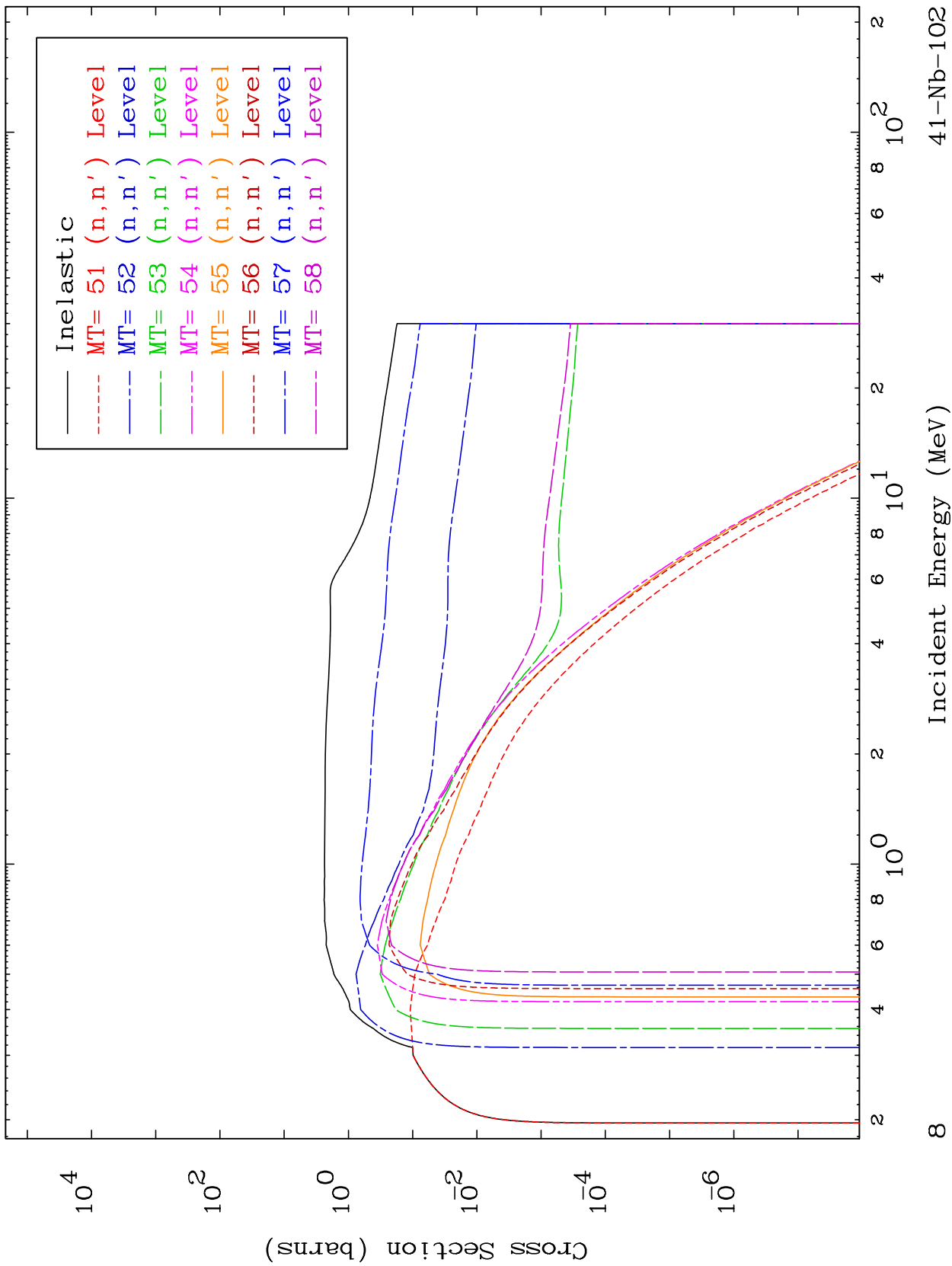
Incident Energy (MeV)

7

MAT 4152

(n,n') Levels
293 Kelvin Cross Sections

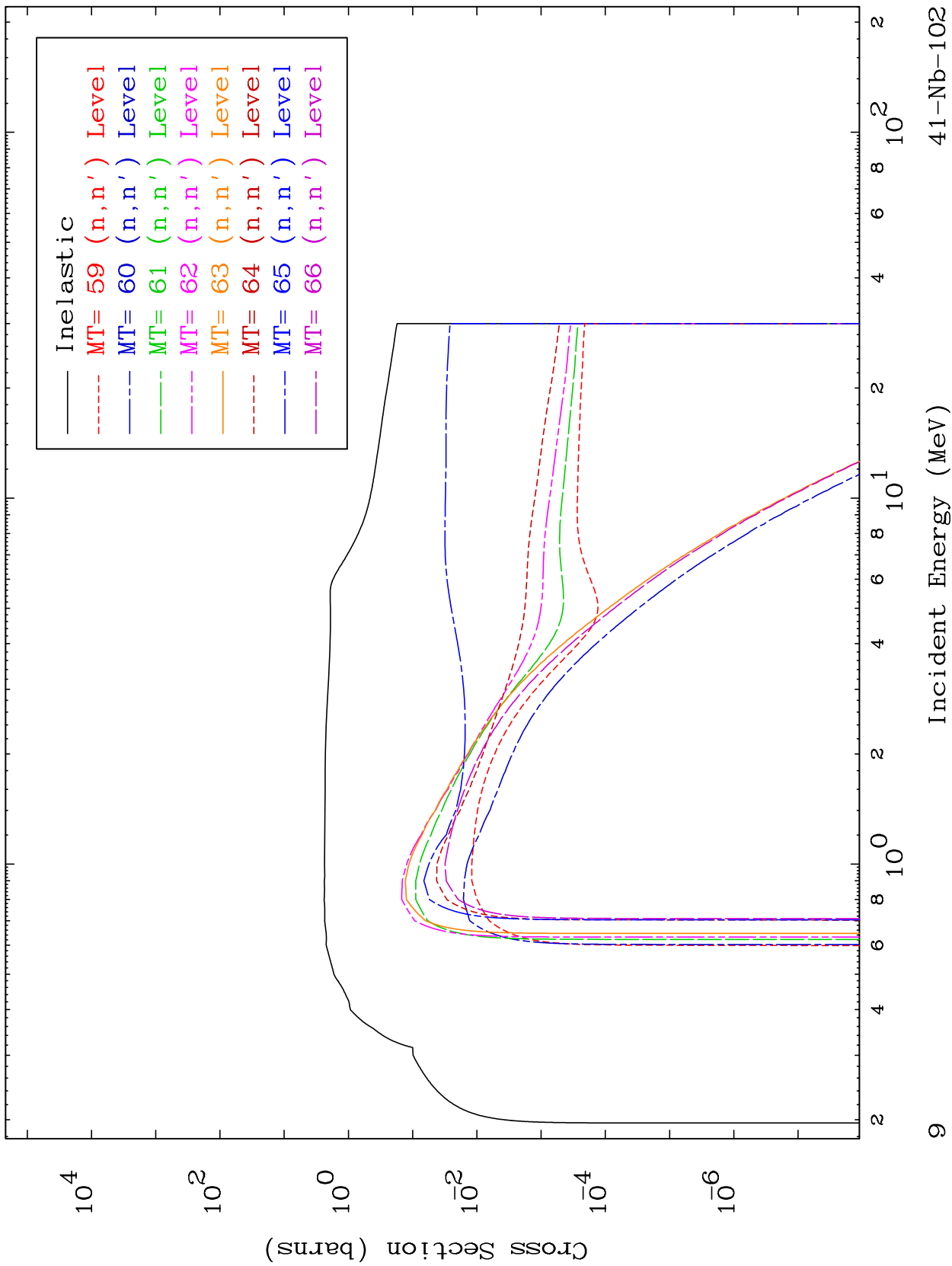
41-Nb-102



8

Incident Energy (MeV)

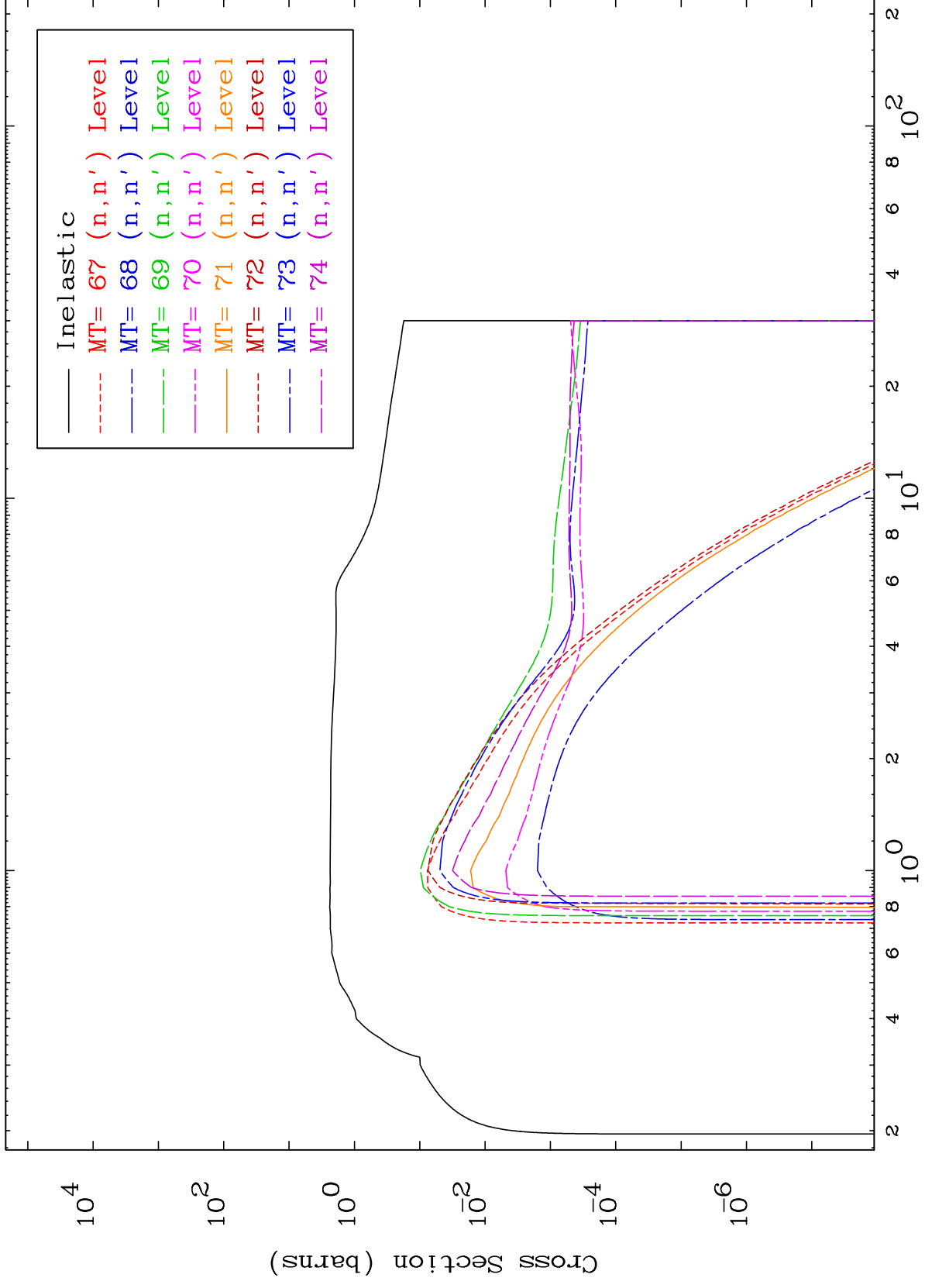
41-Nb-102



MAT 4152

(n,n') Levels
293 Kelvin Cross Sections

41-Nb-102



10

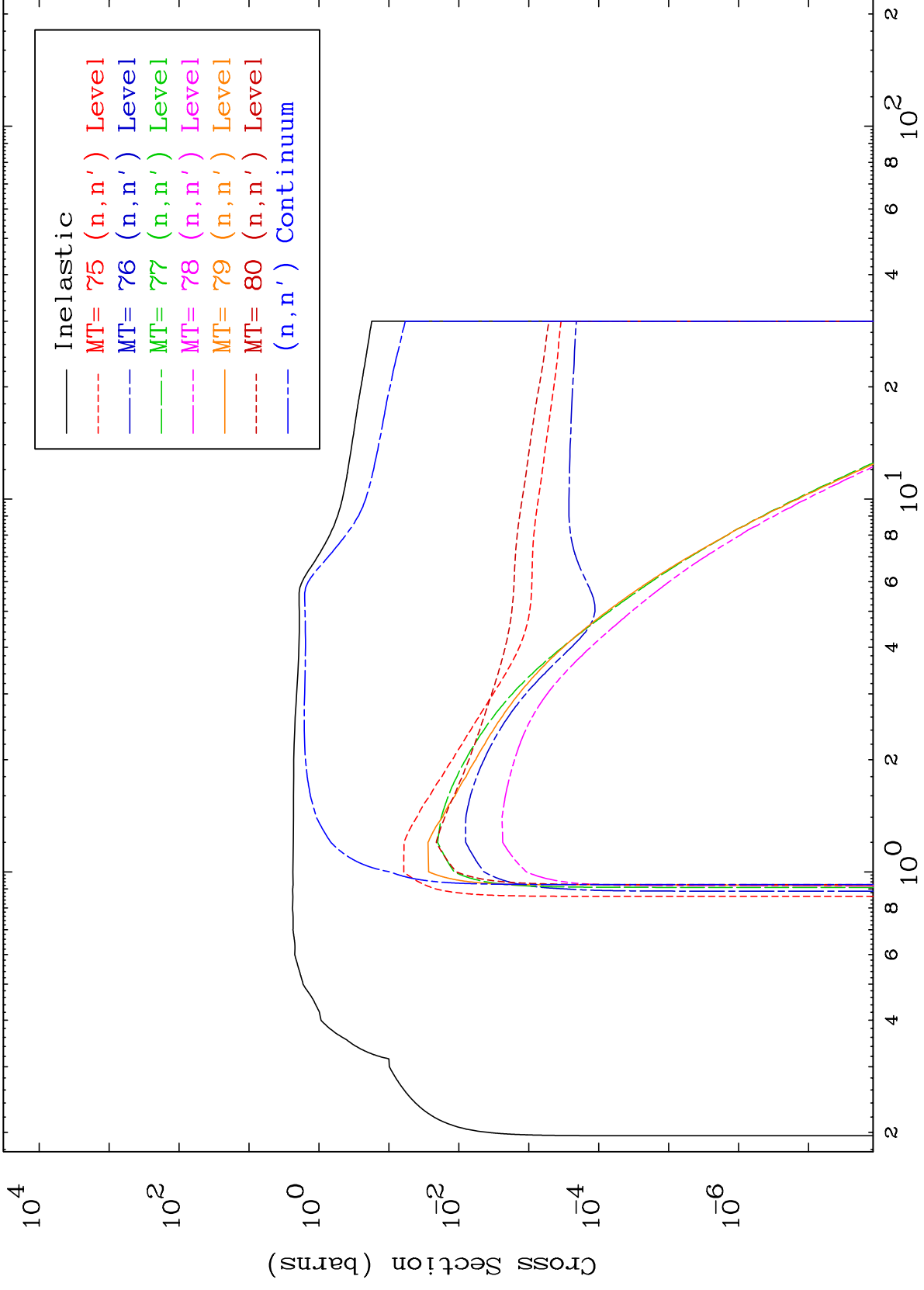
Incident Energy (MeV)

41-Nb-102

MAT 4152

(n,n') Levels
293 Kelvin Cross Sections

41-Nb-102



11

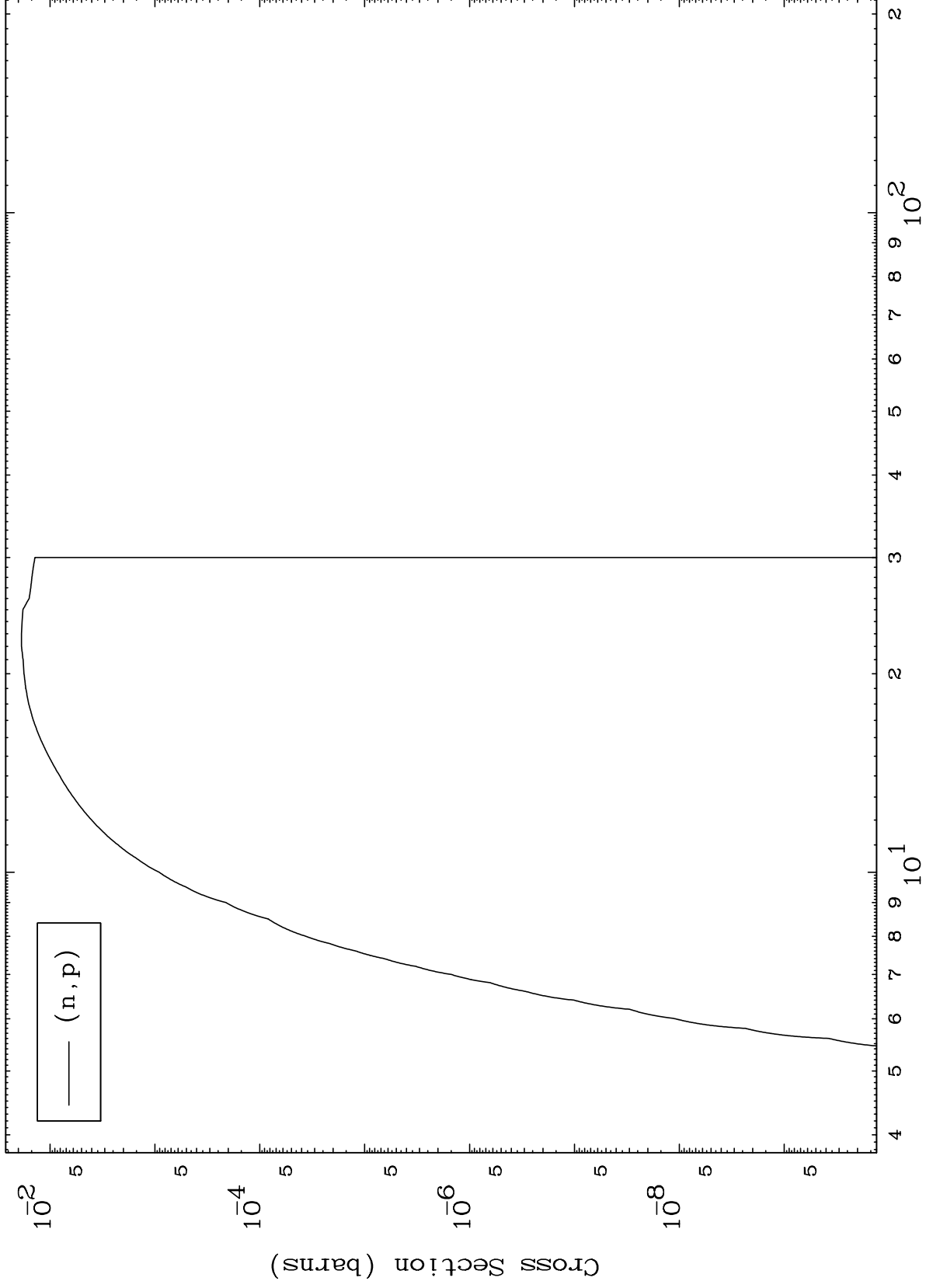
Incident Energy (MeV)

41-Nb-102

MAT 4152

(n,p) Levels
293 Kelvin Cross Sections

41-Nb-102



12

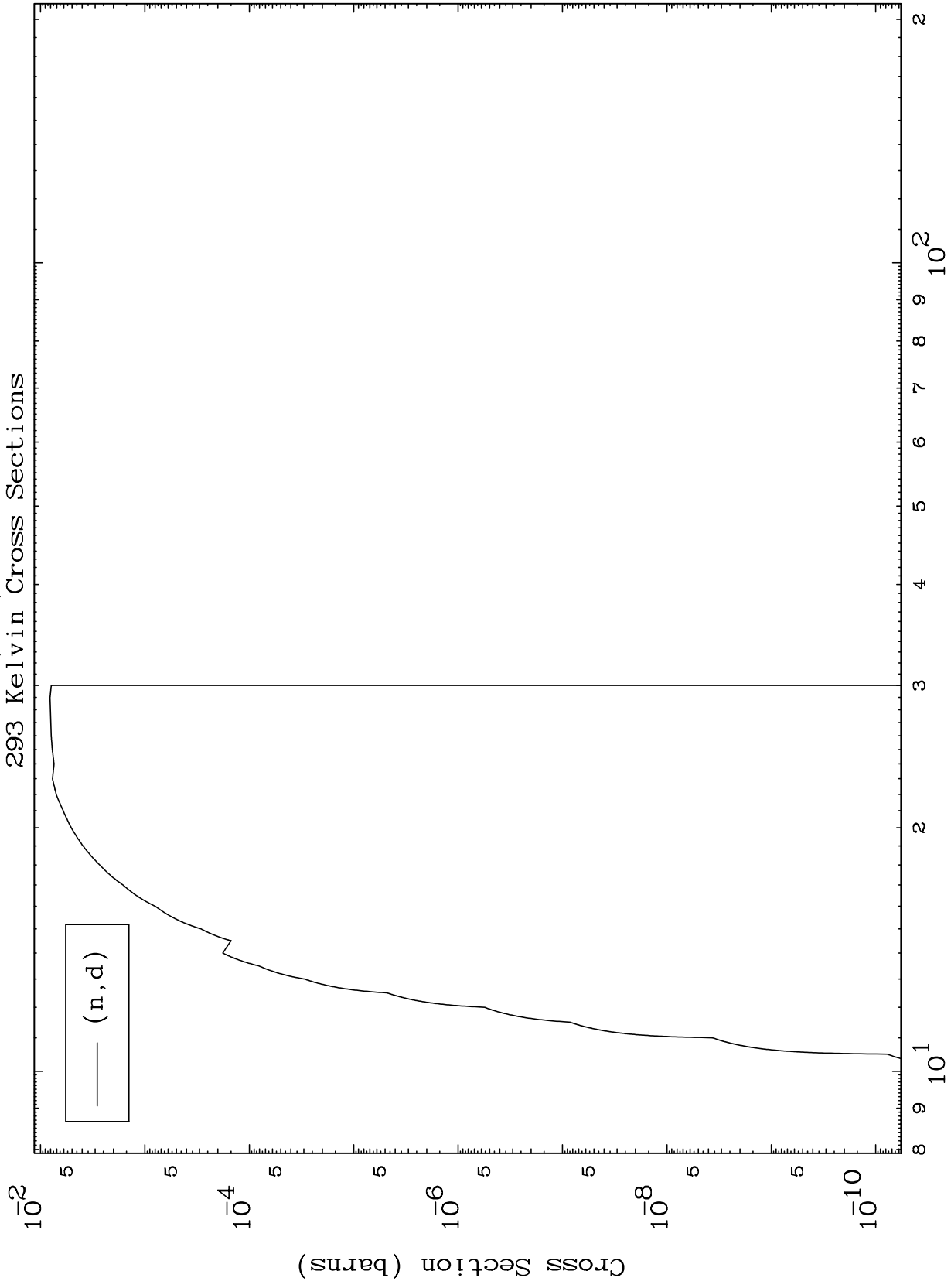
Incident Energy (MeV)

41-Nb-102

MAT 4152

(n,d) Levels
293 Kelvin Cross Sections

41-Nb-102



13

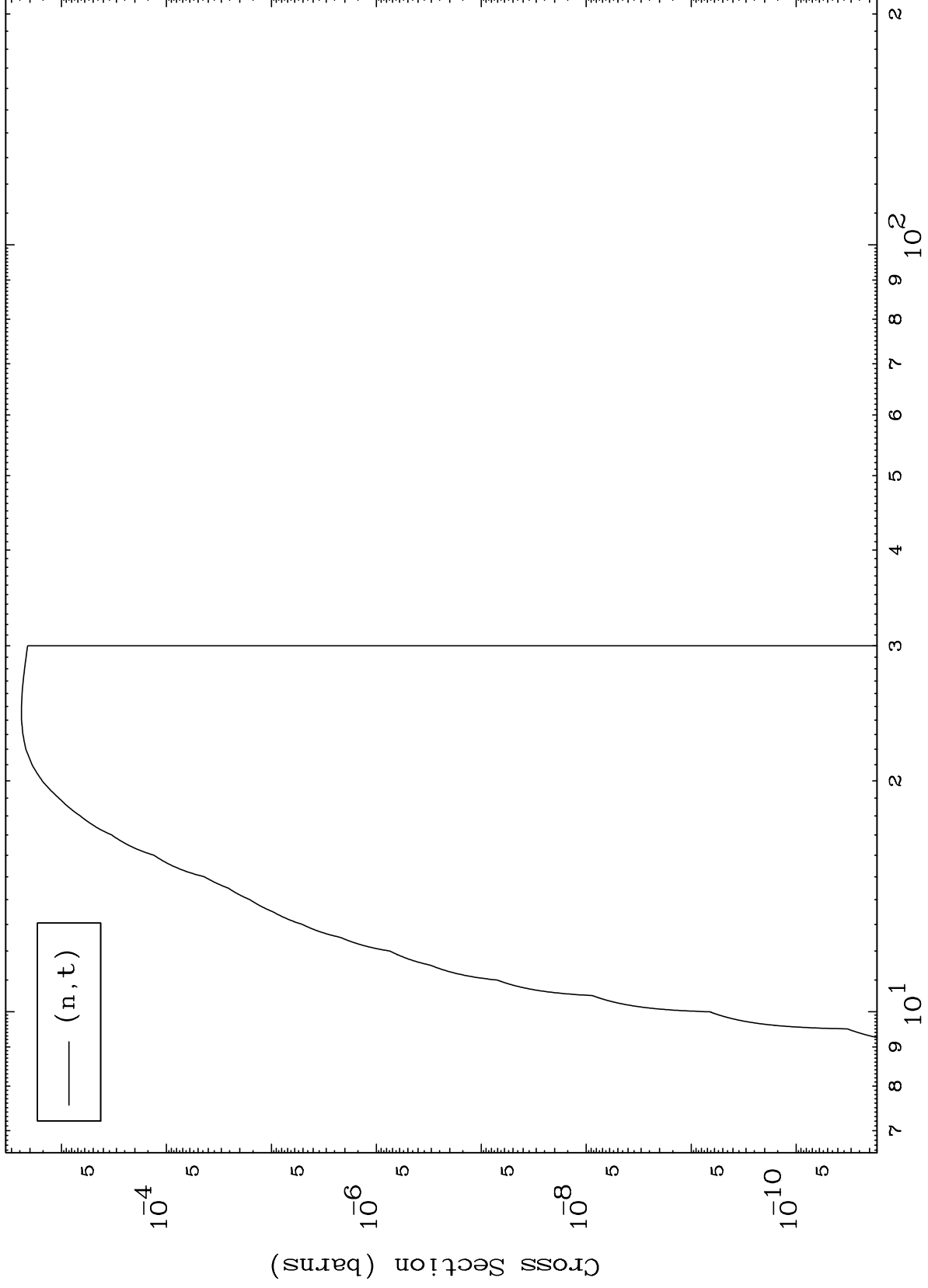
Incident Energy (MeV)

41-Nb-102

MAT 4152

(n,t) Levels
293 Kelvin Cross Sections

41-Nb-102



14

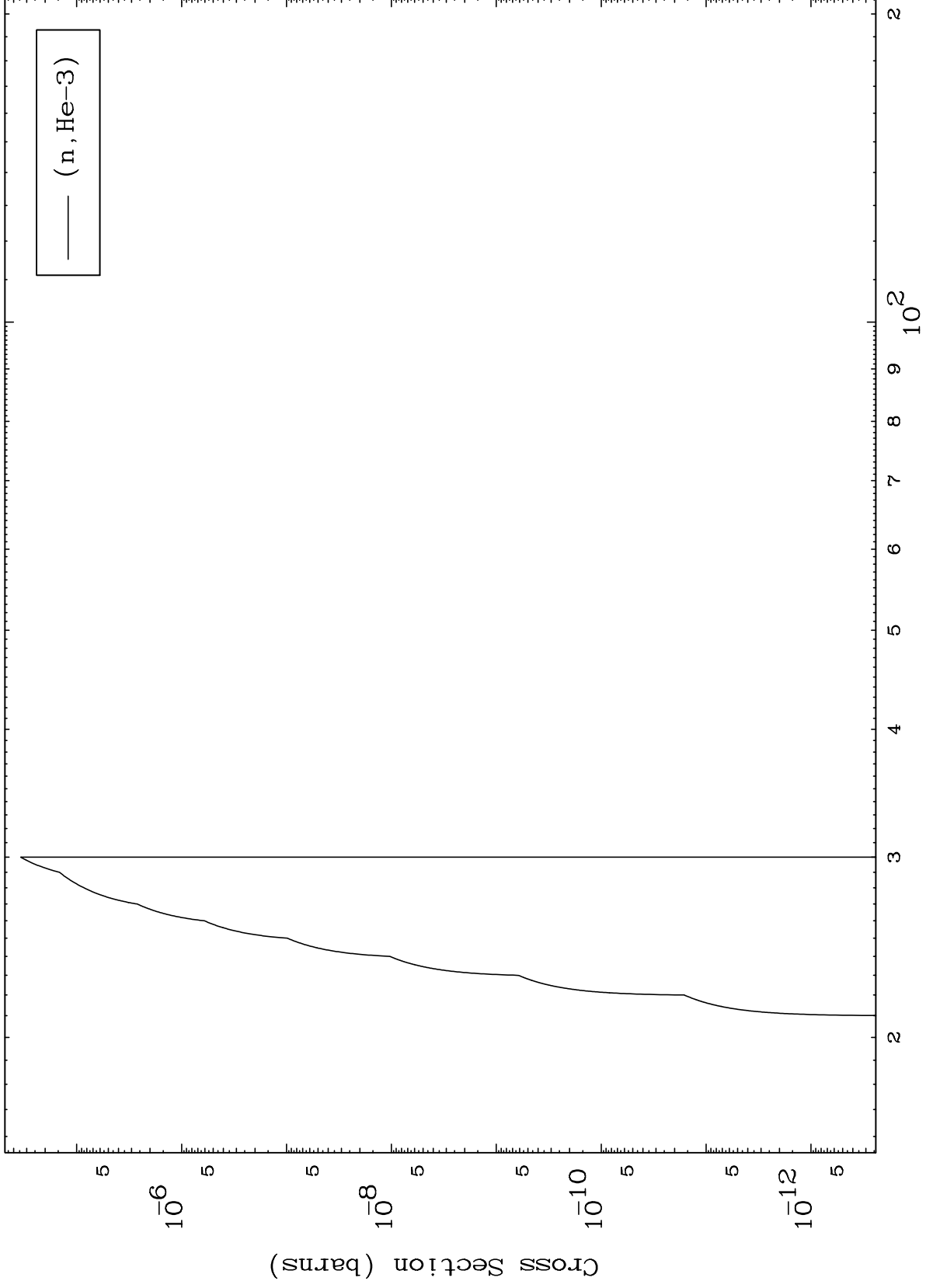
Incident Energy (MeV)

41-Nb-102

MAT 4152

(n,He3) Levels
293 Kelvin Cross Sections

41-Nb-102



15

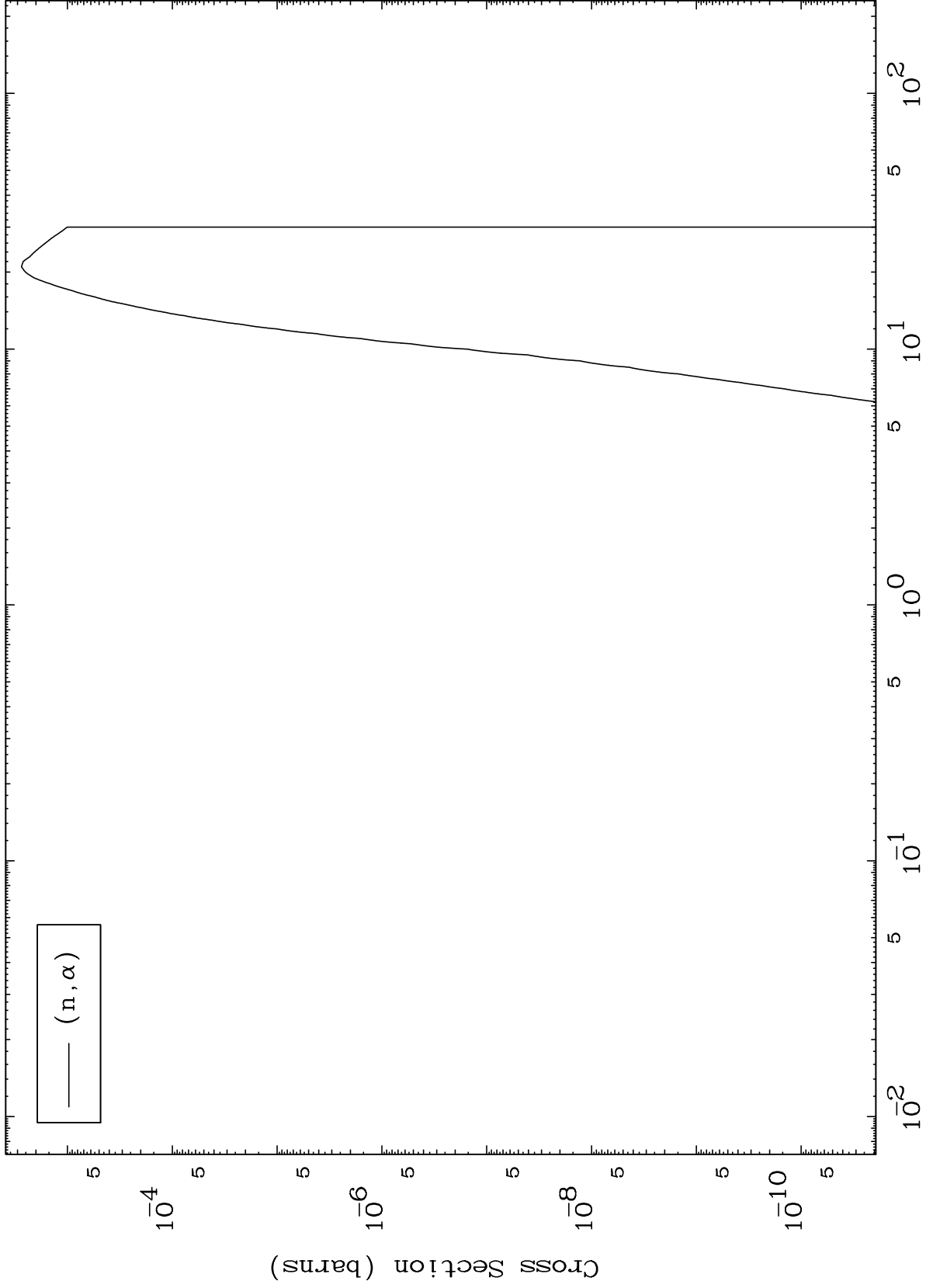
Incident Energy (MeV)

41-Nb-102

MAT 4152

(n, α) Levels
293 Kelvin Cross Sections

41-Nb-102



16

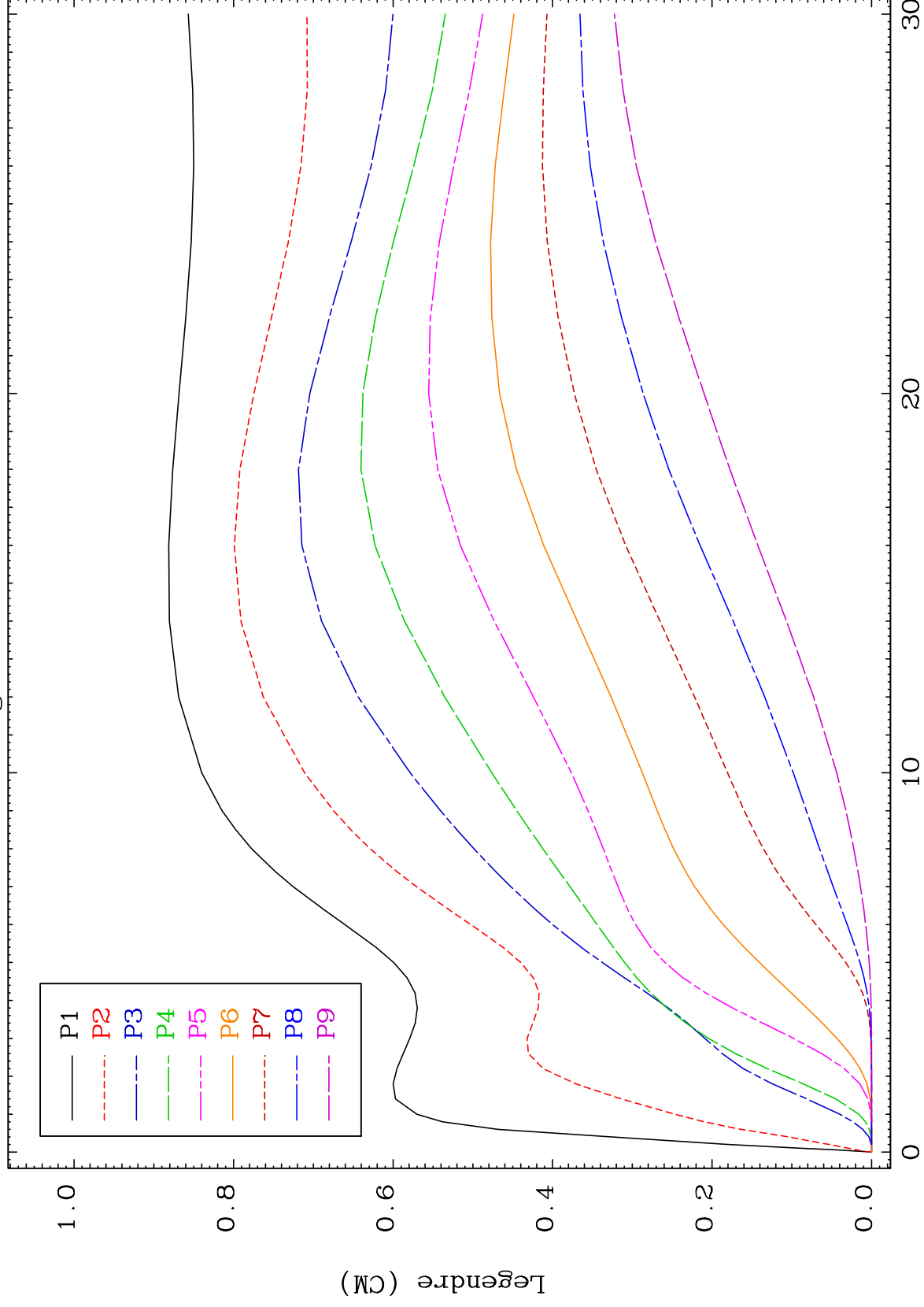
Incident Energy (MeV)

41-Nb-102

MAT 4152

Elastic Legendre Coefficients

41-Nb-102



17

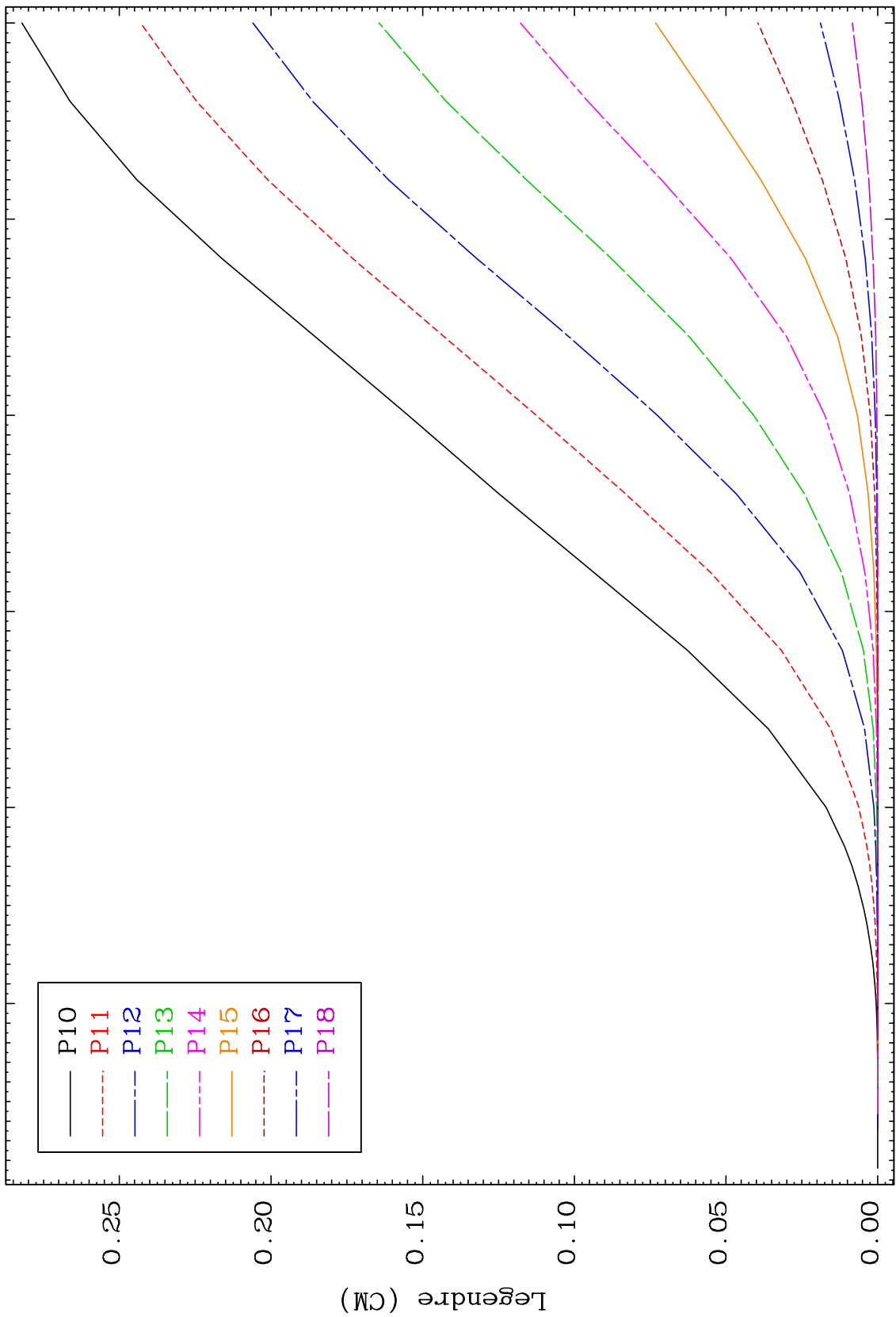
Incident Energy (MeV)

41-Nb-102

MAT 4152

Elastic Legendre Coefficients

41-Nb-102



18

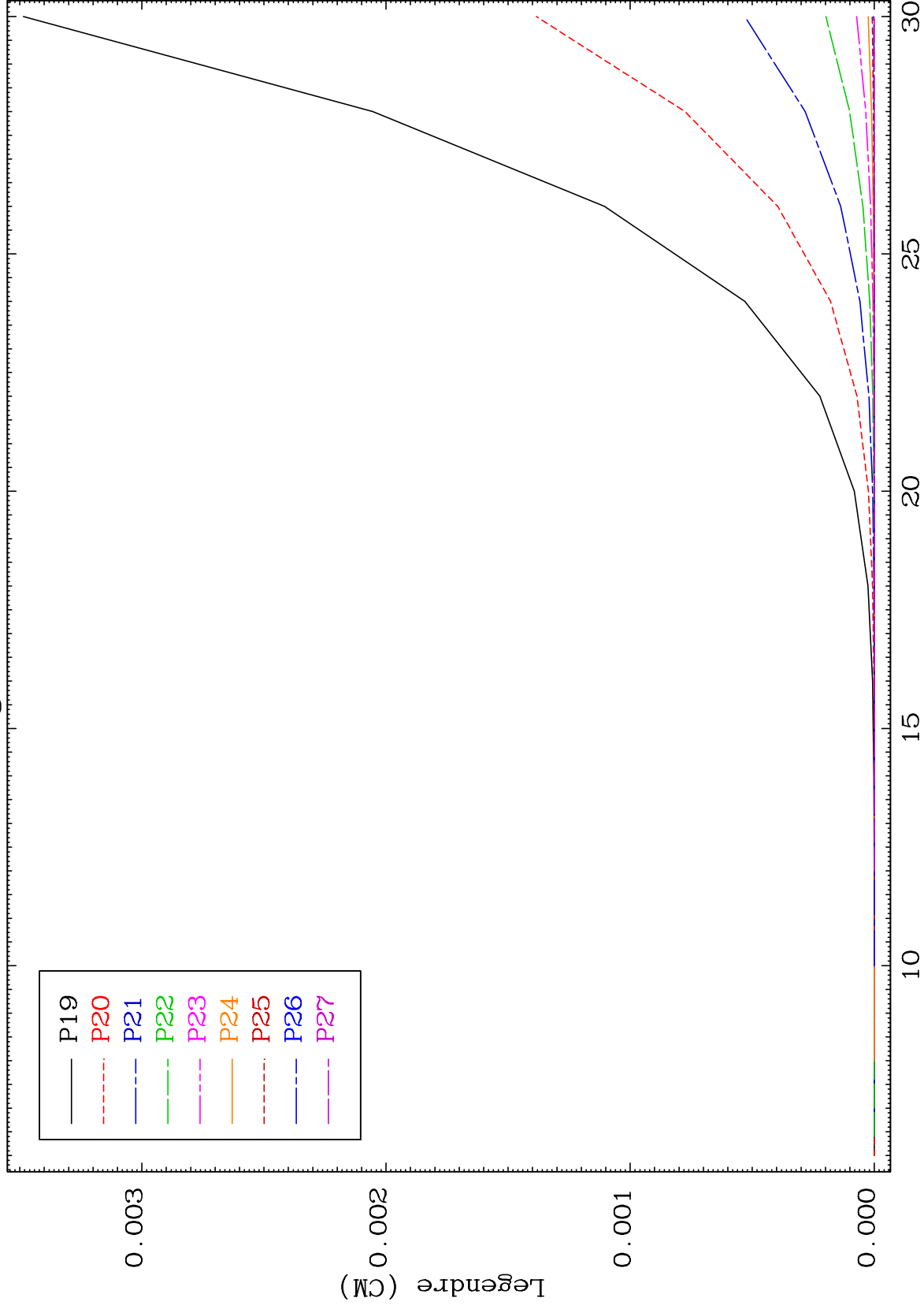
Incident Energy (MeV)

41-Nb-102

MAT 4152

Elastic Legendre Coefficients

41-Nb-102



19

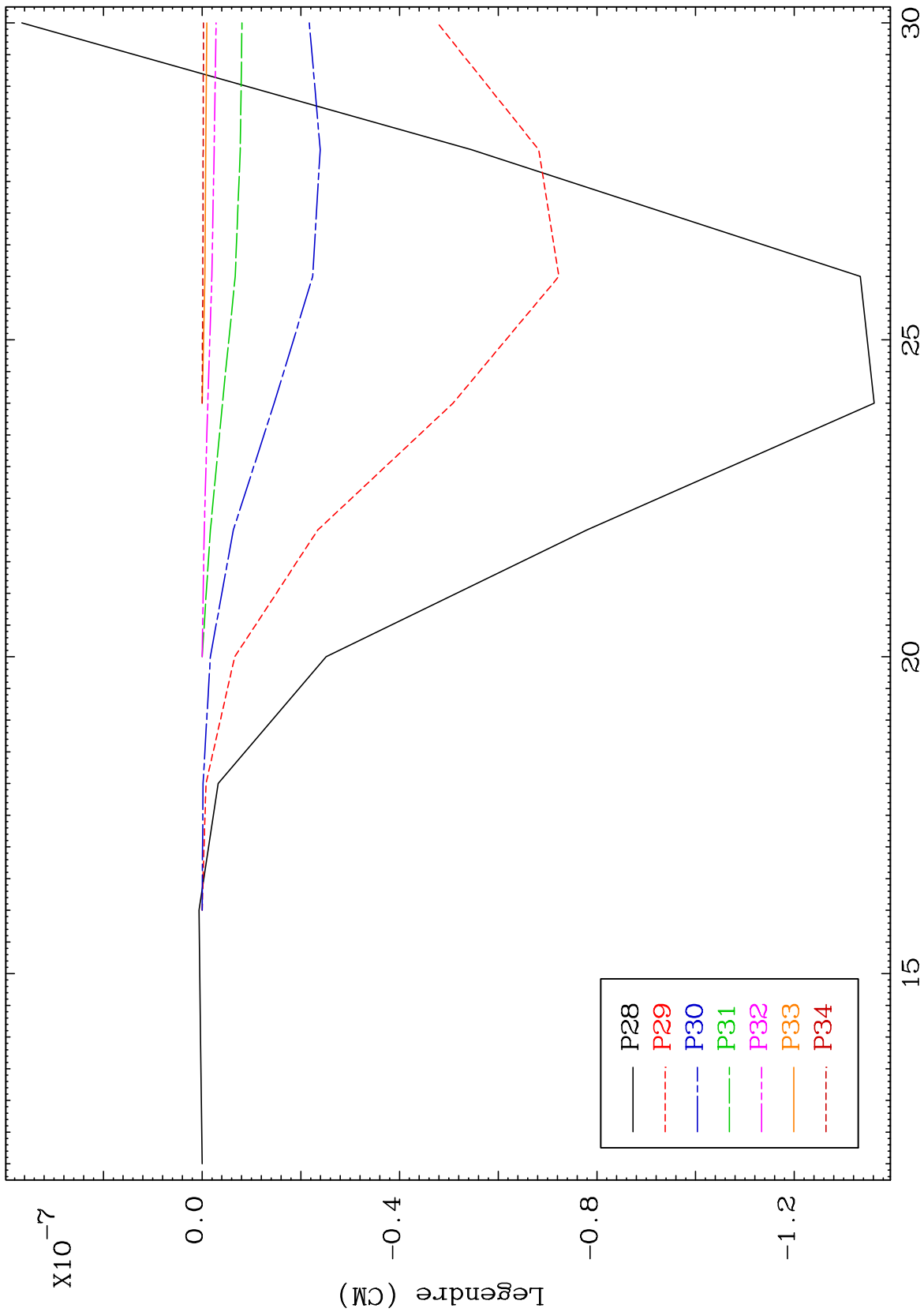
Incident Energy (MeV)

41-Nb-102

MAT 4152

41-Nb-102

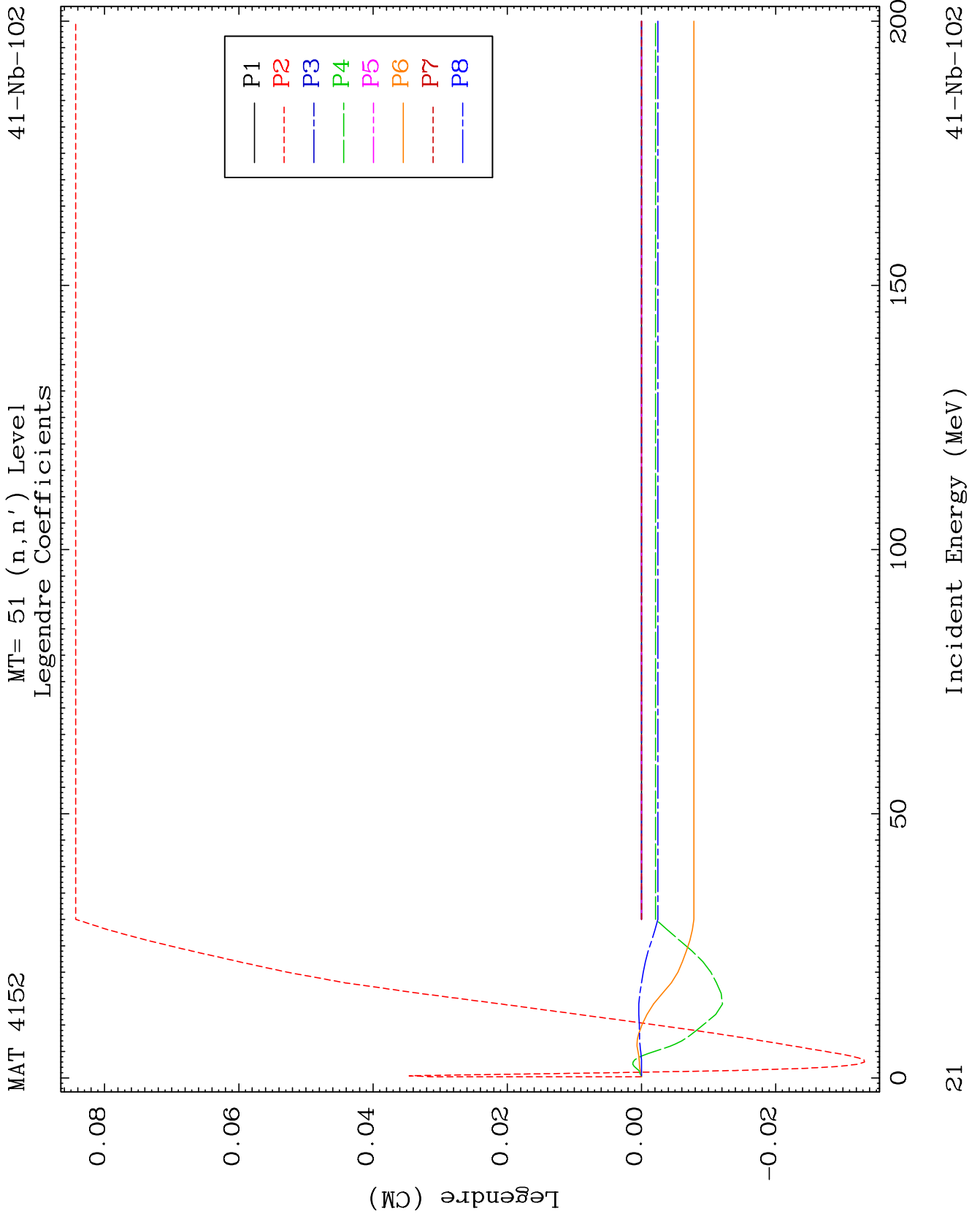
Elastic Legendre Coefficients



41-Nb-102

Incident Energy (MeV)

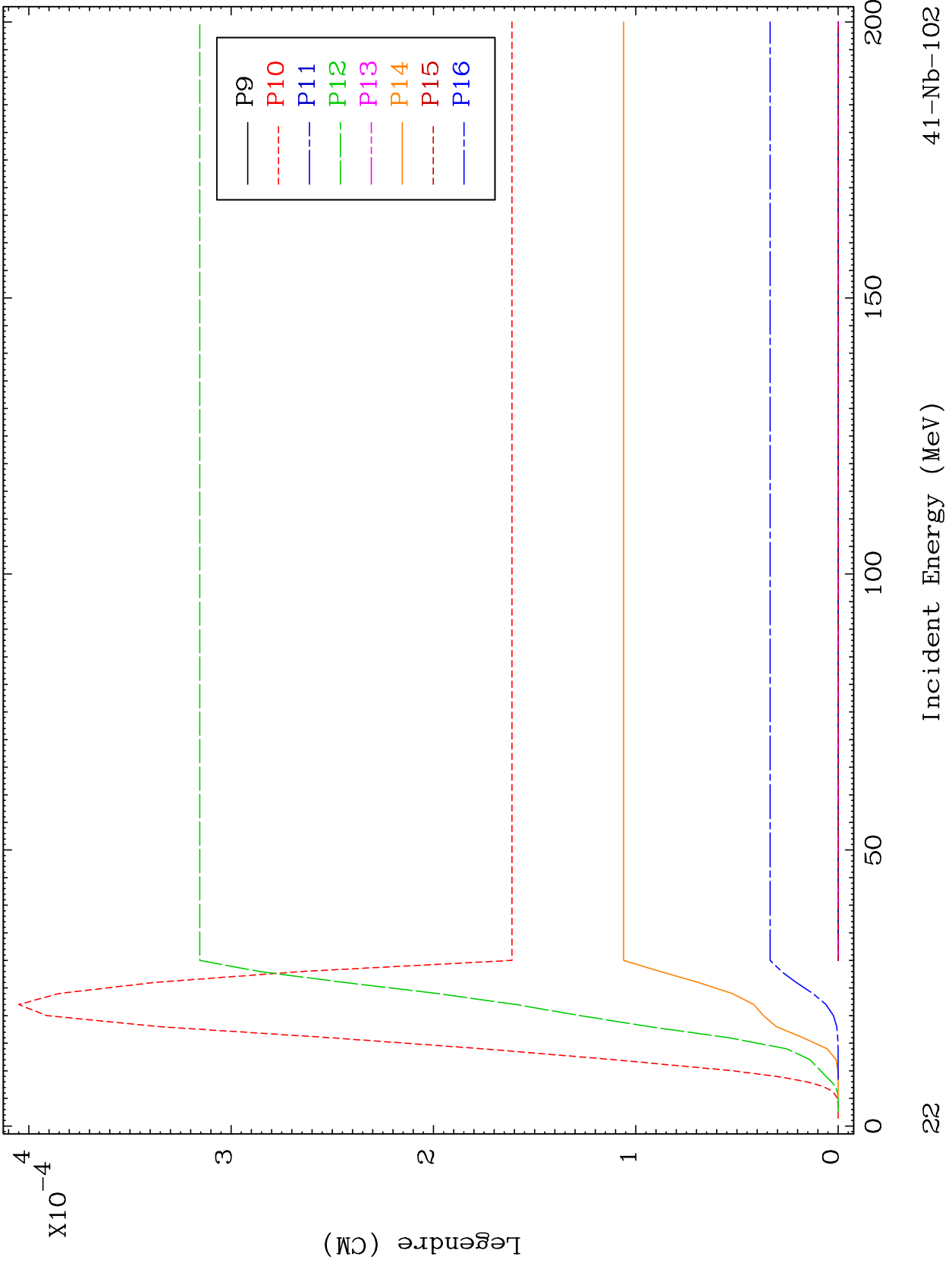
20



MAT 4152

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

41-Nb-102



22

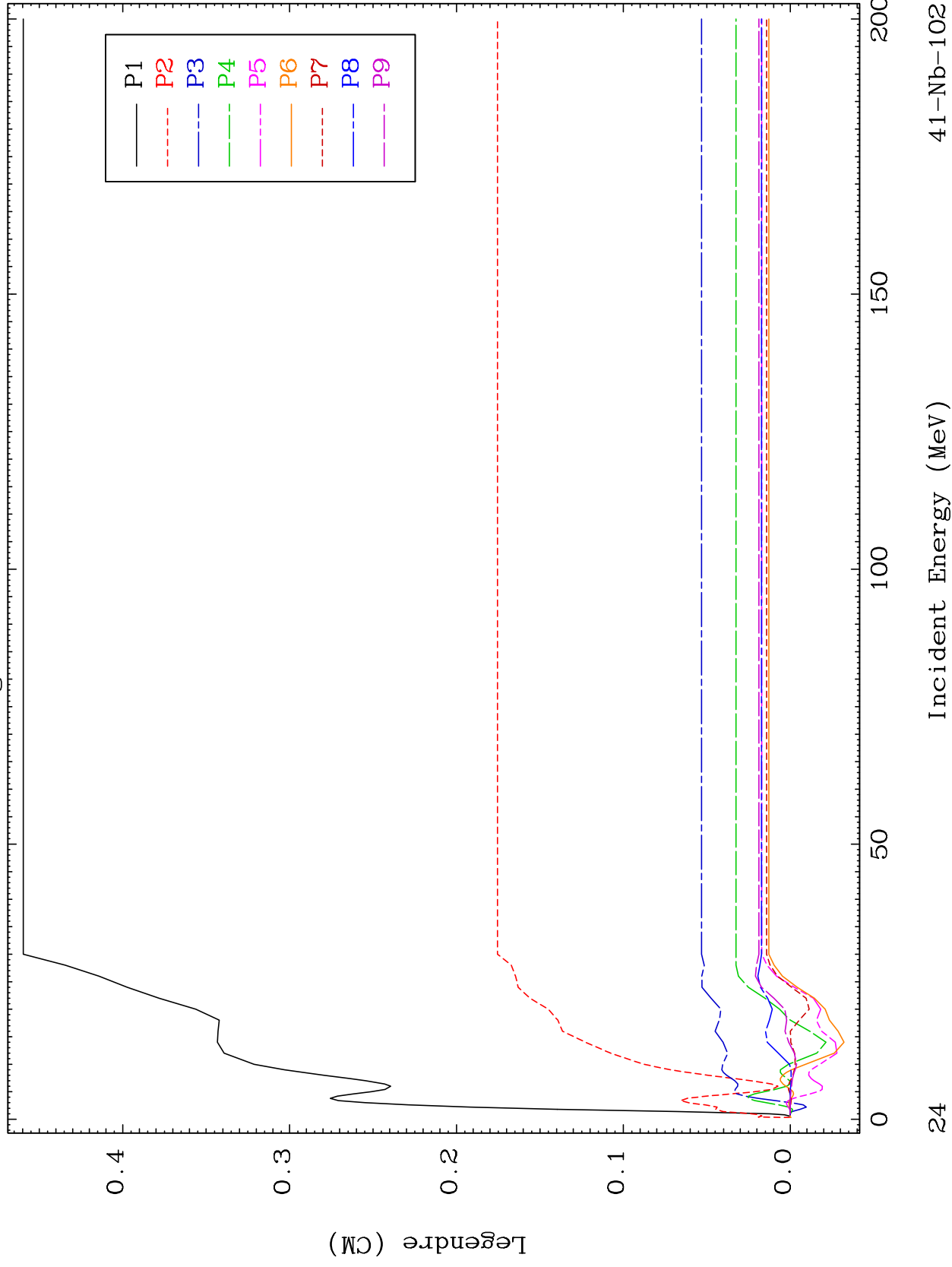
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



41-Nb-102

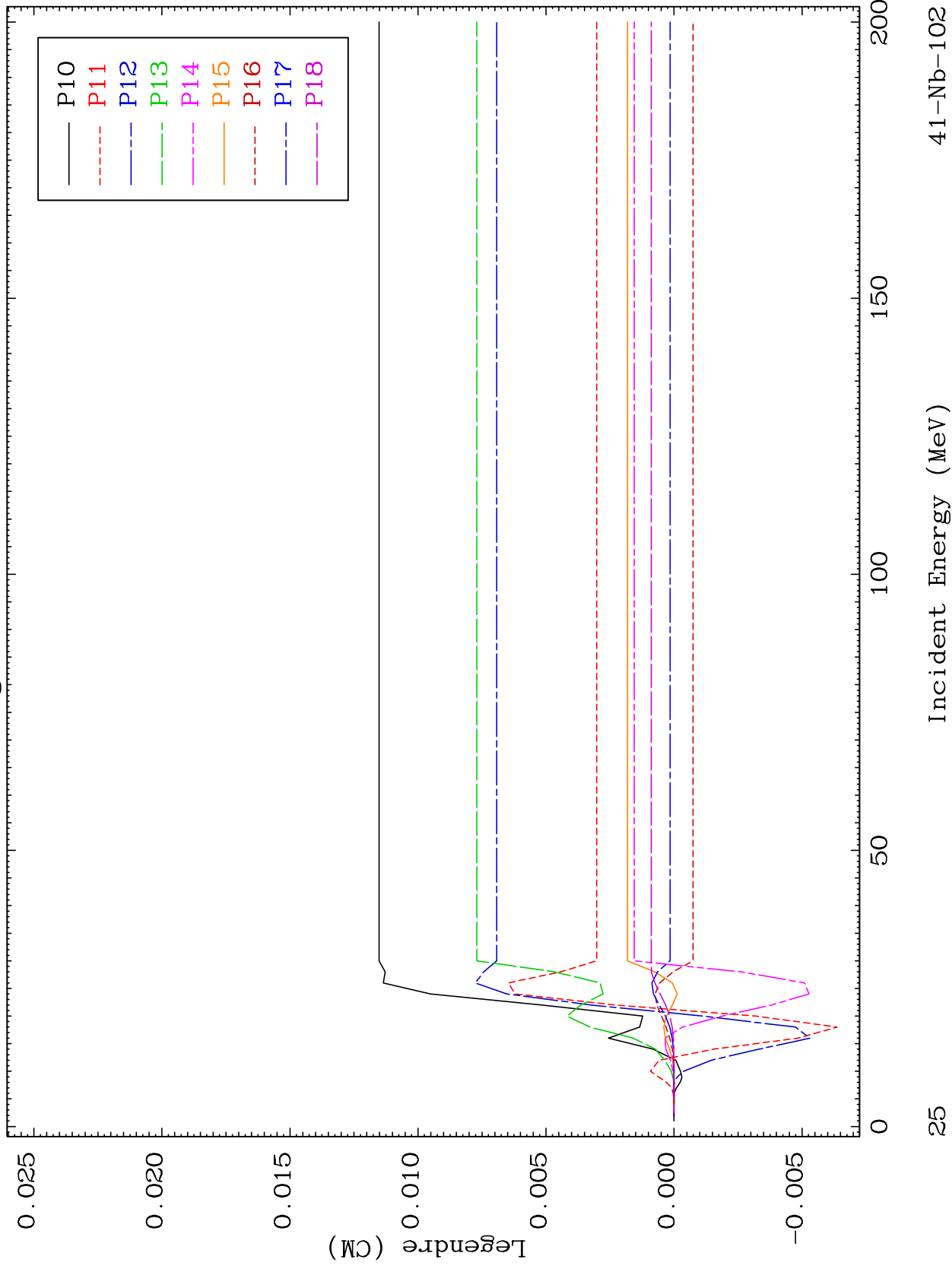
Incident Energy (MeV)

24

MAT 4152

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

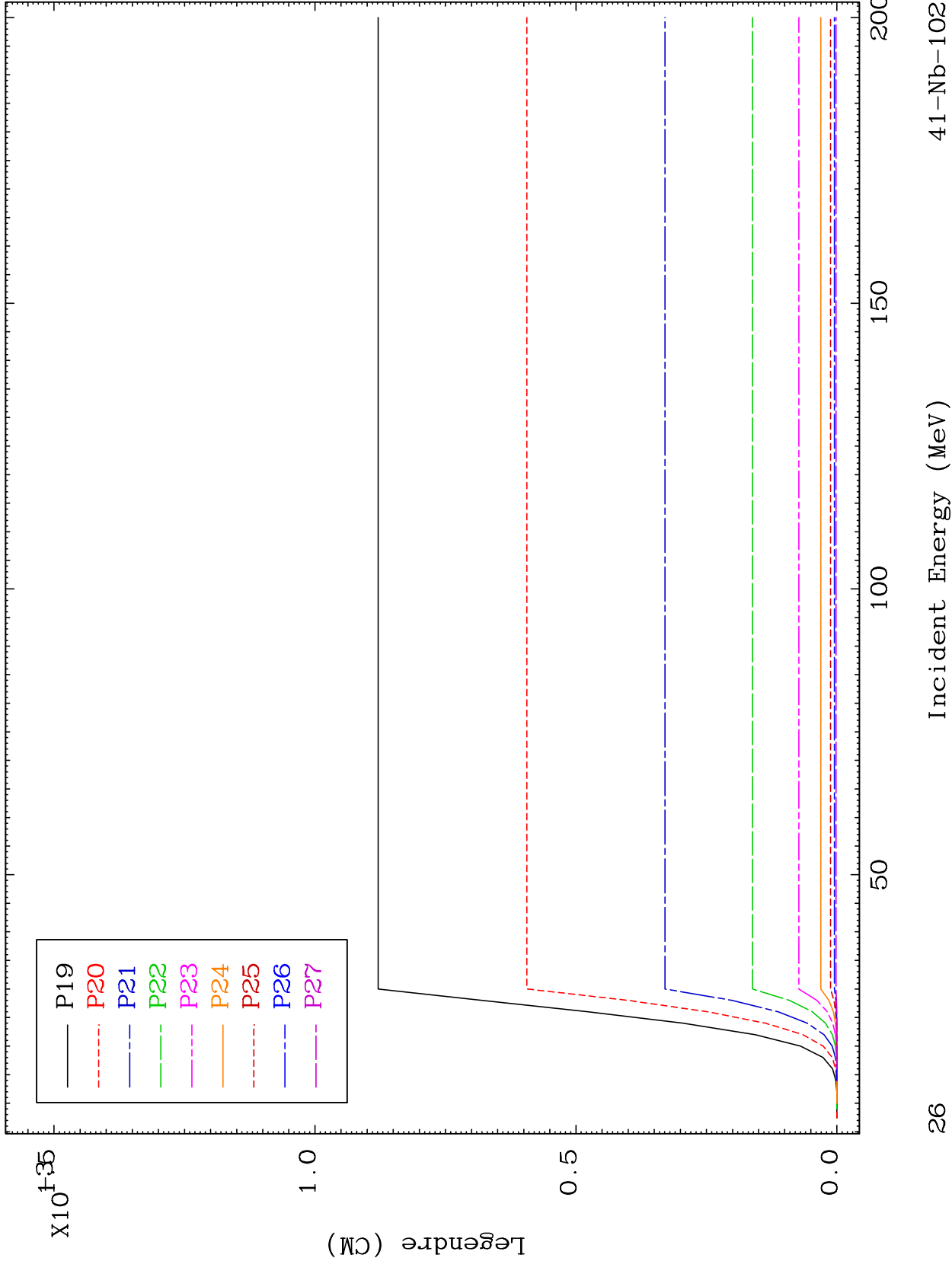
41-Nb-102



41-Nb-102

Incident Energy (MeV)

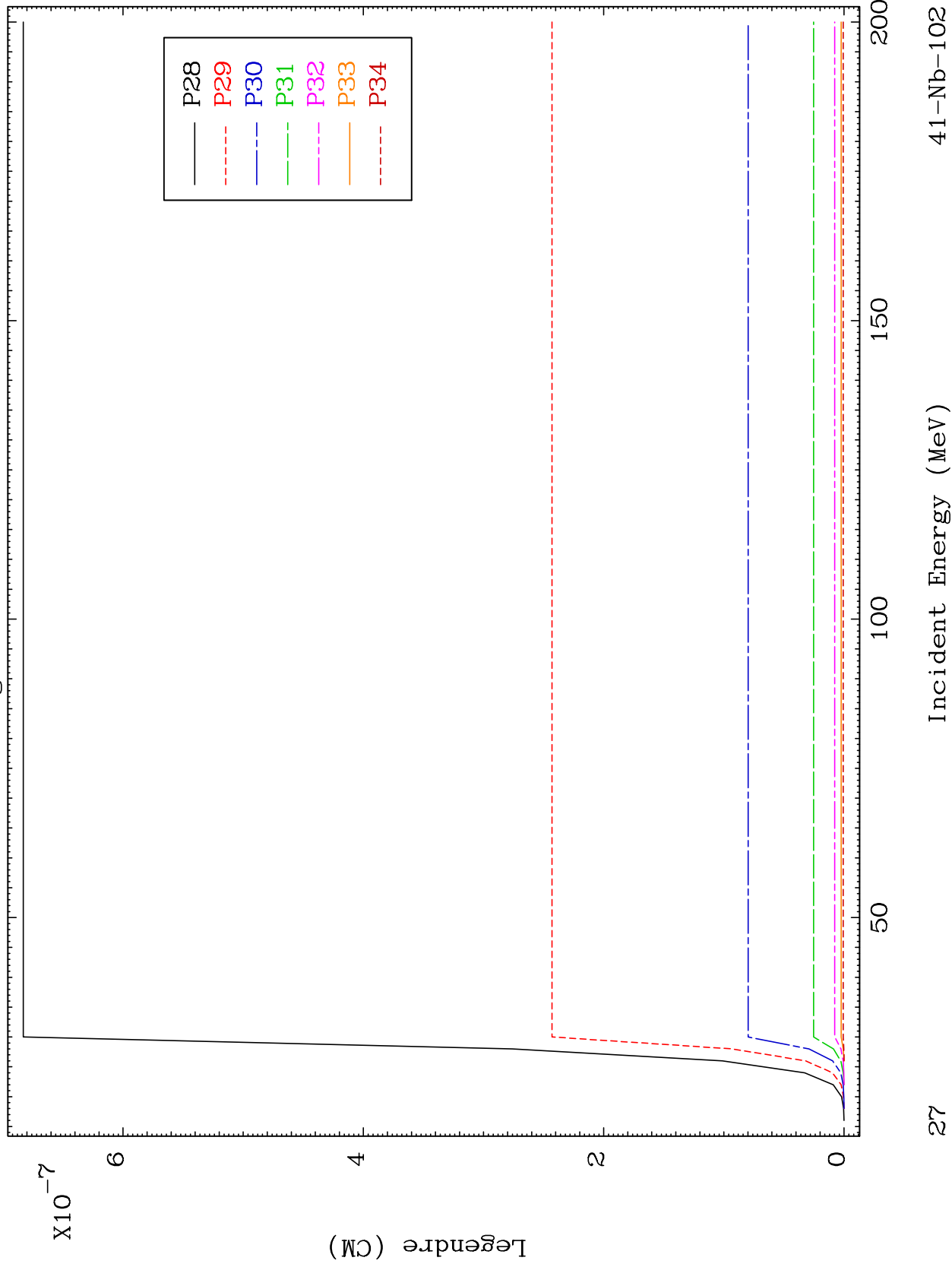
25



MAT 4152

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

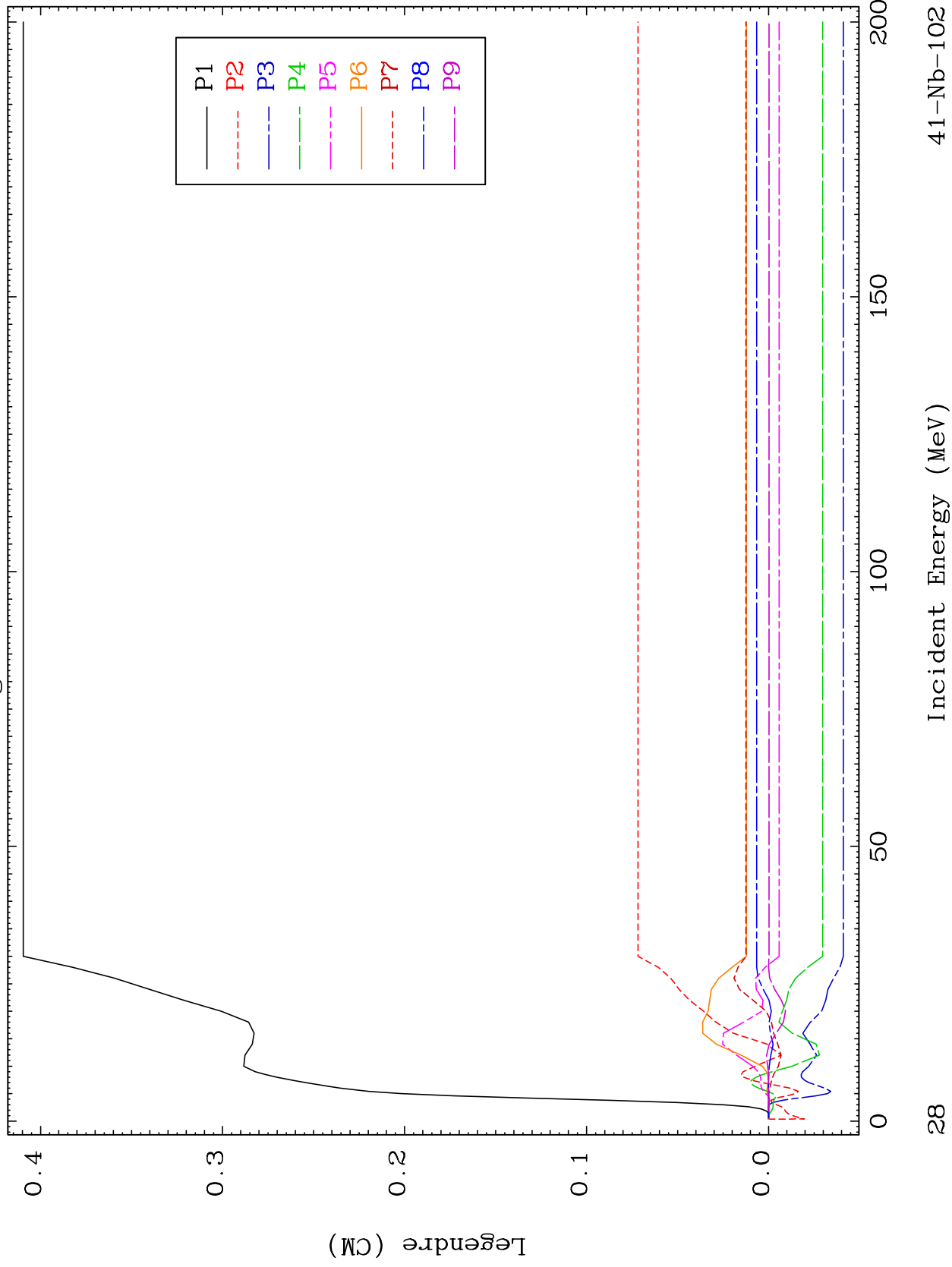
41-Nb-102



MAT 4152

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

41-Nb-102



28

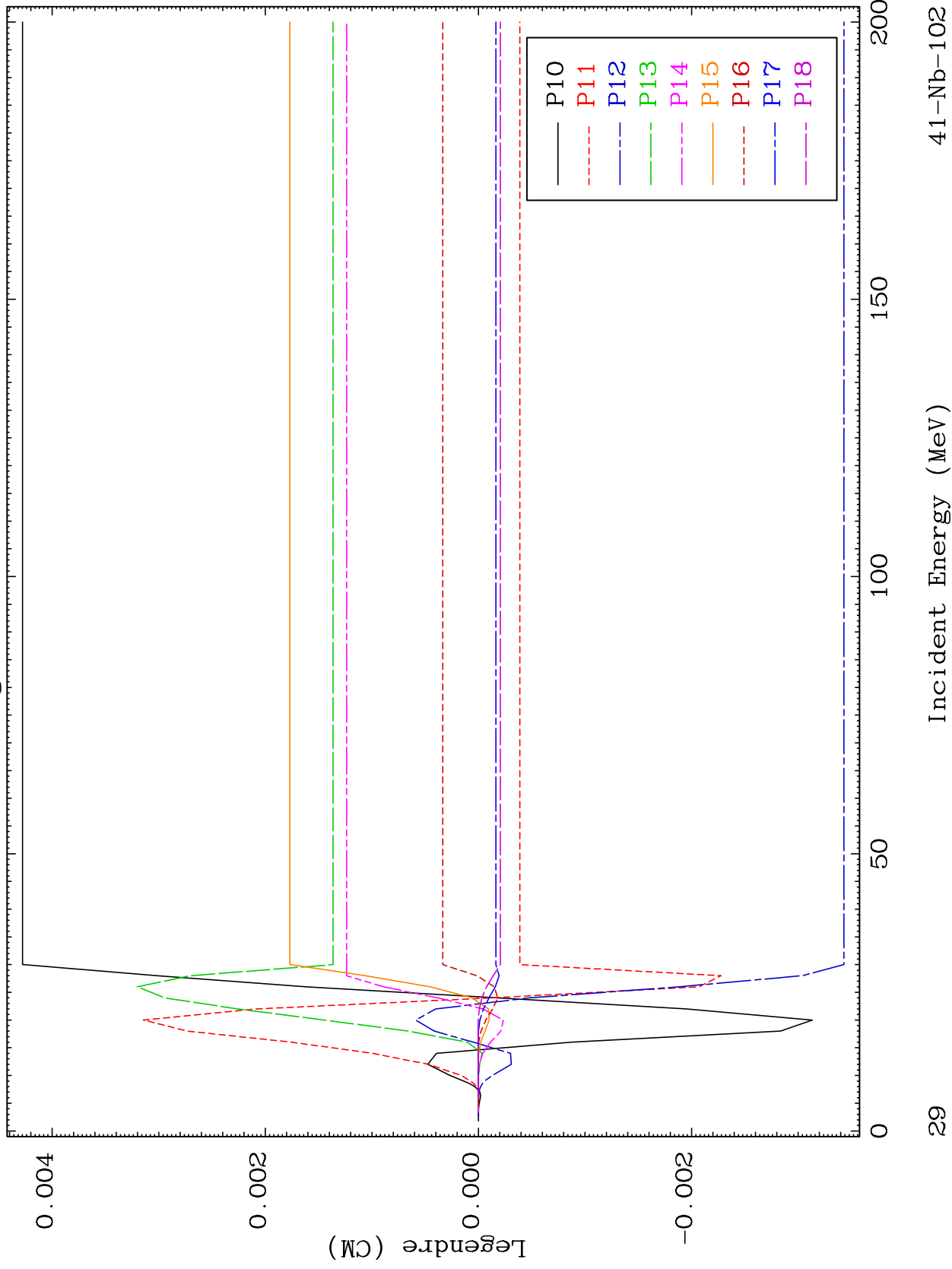
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



29

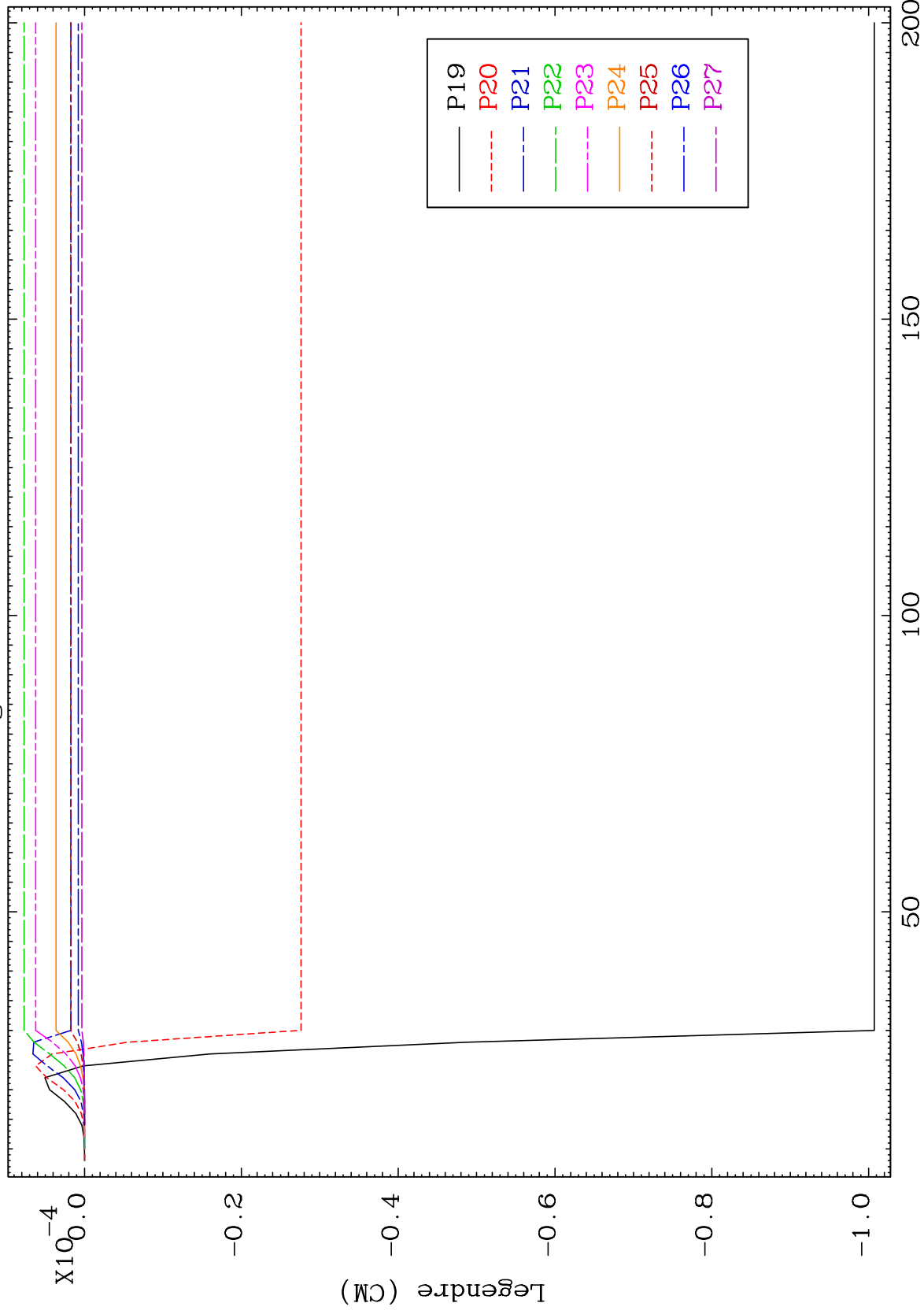
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



30

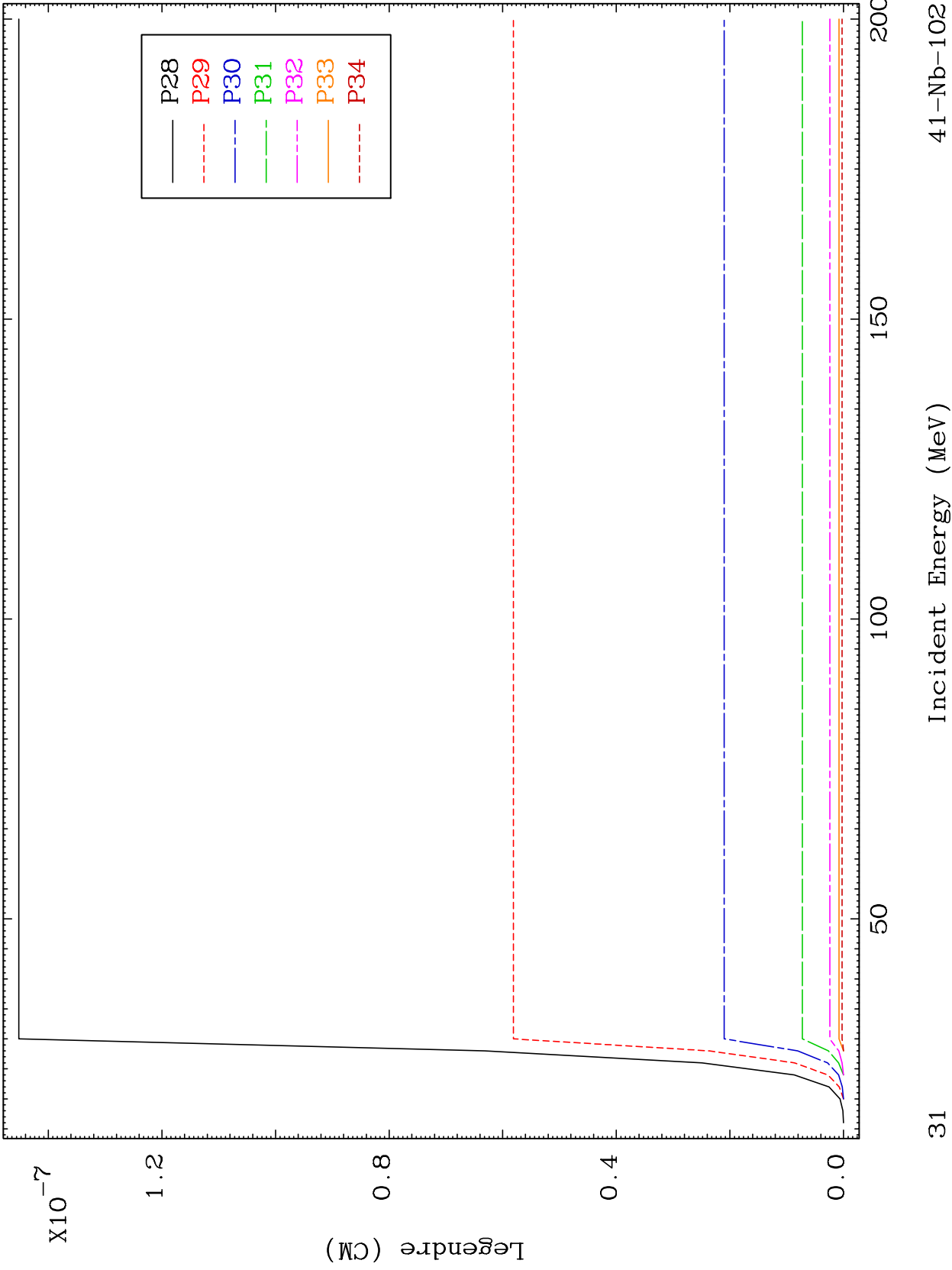
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



31

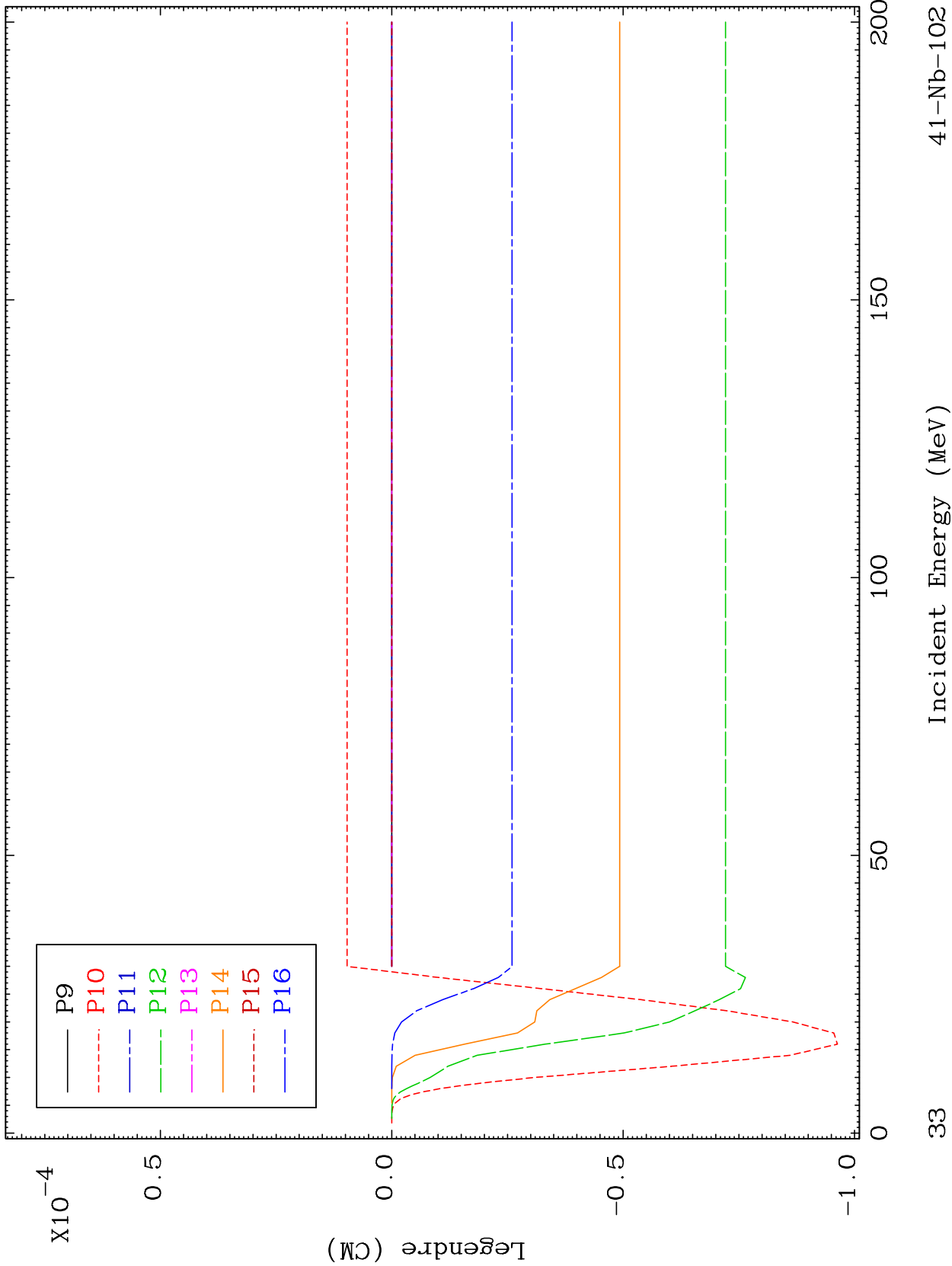
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



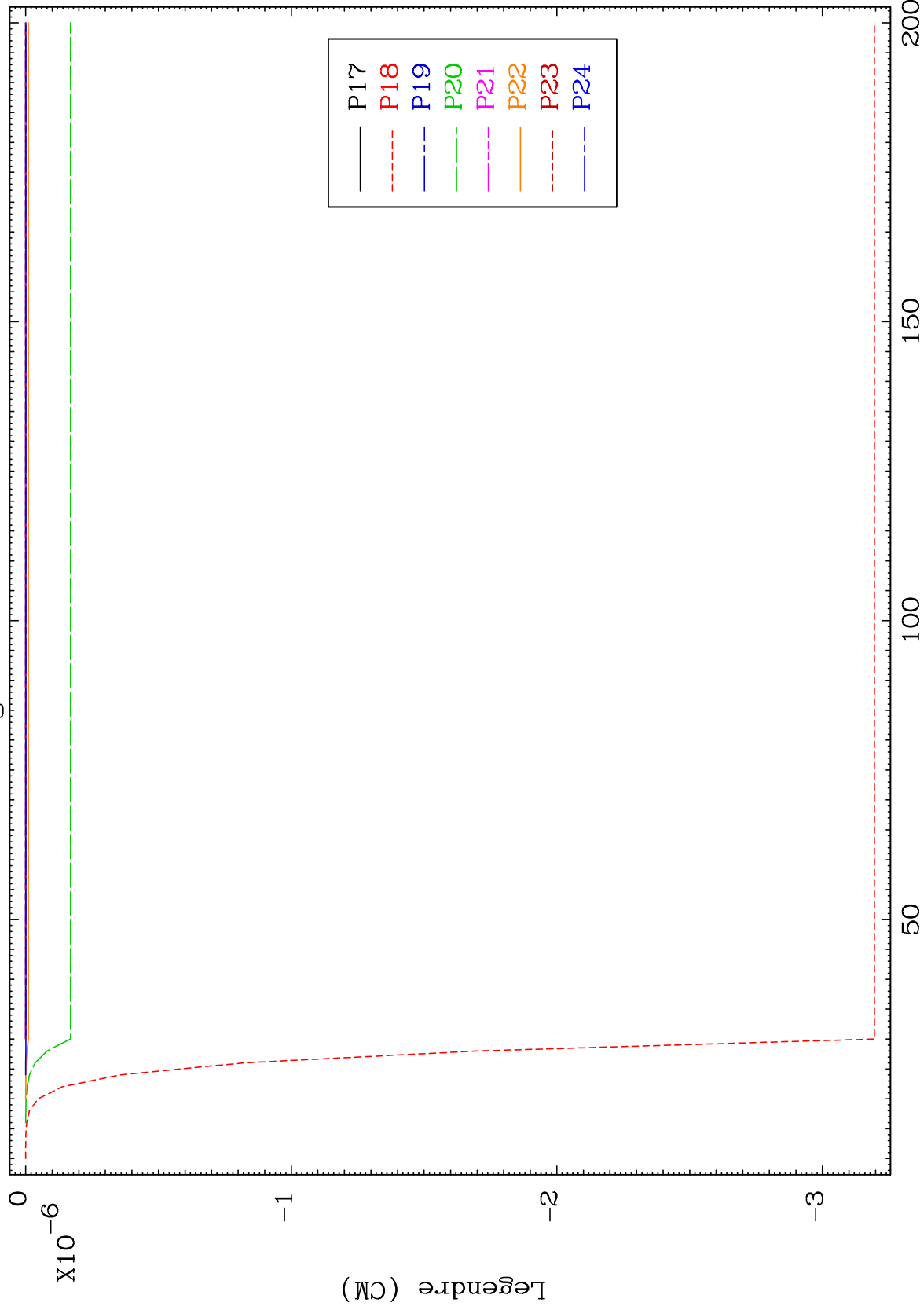
33

41-Nb-102

MAT 4152

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

41-Nb-102



34

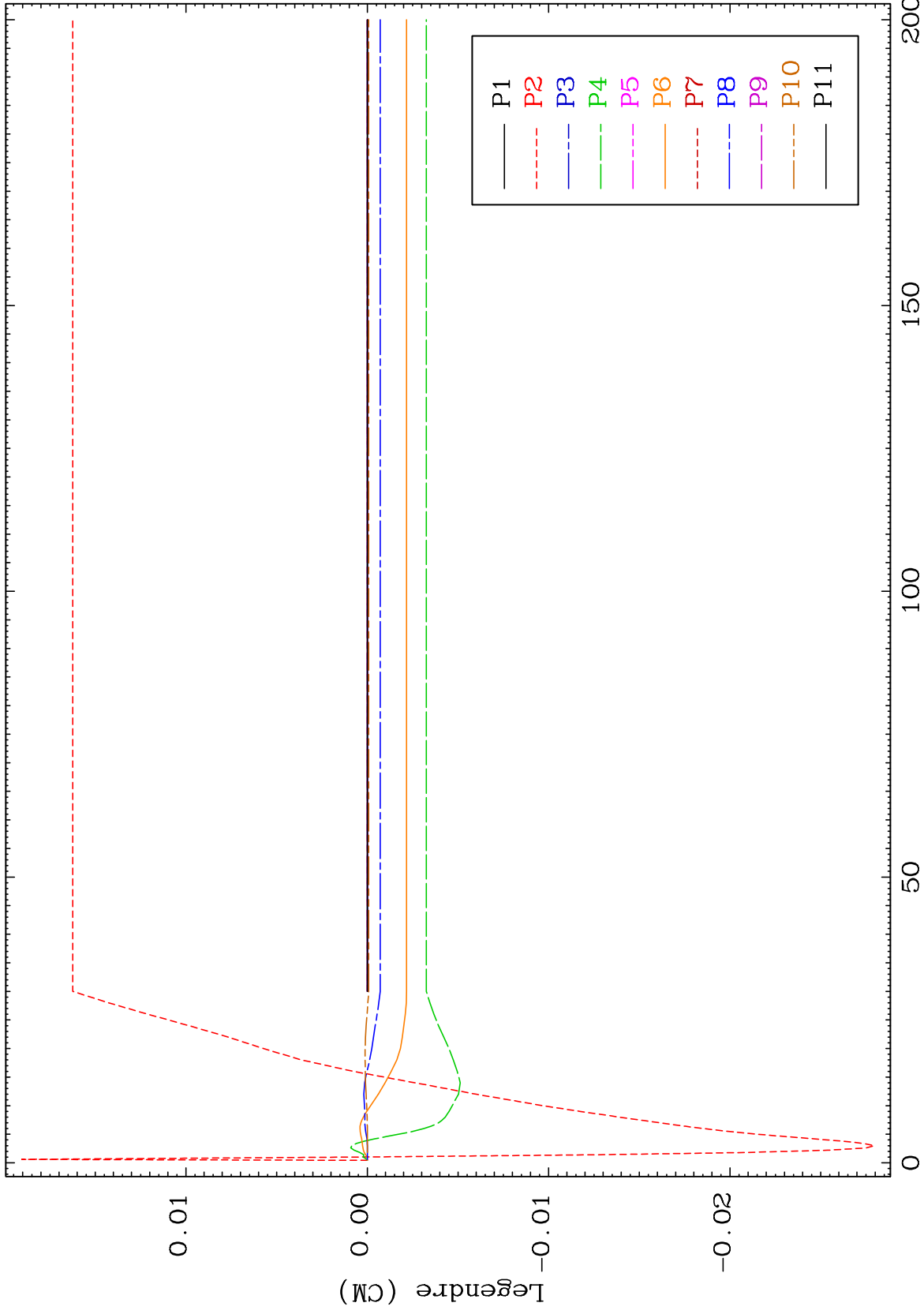
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

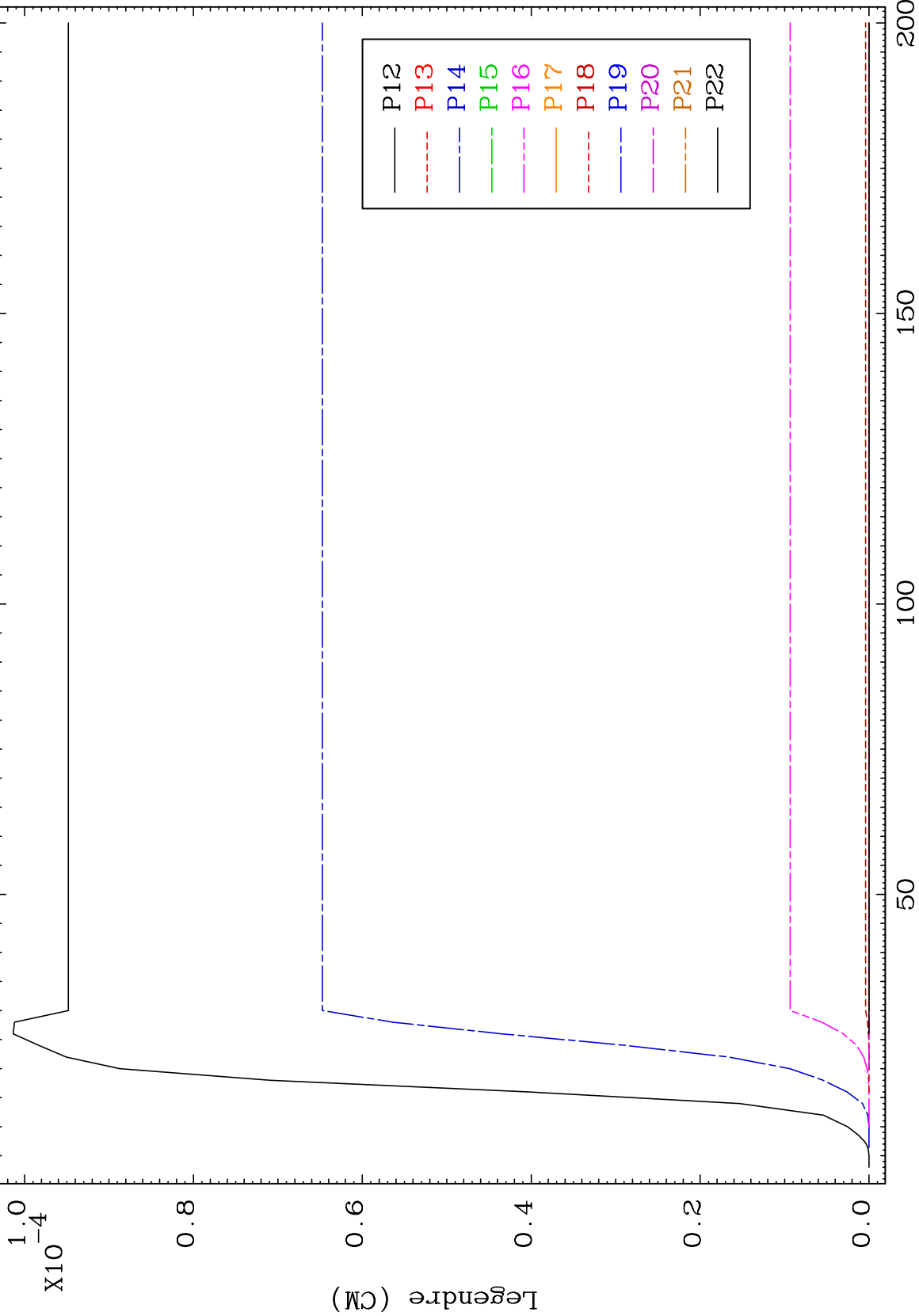
41-Nb-102



Incident Energy (MeV)

41-Nb-102

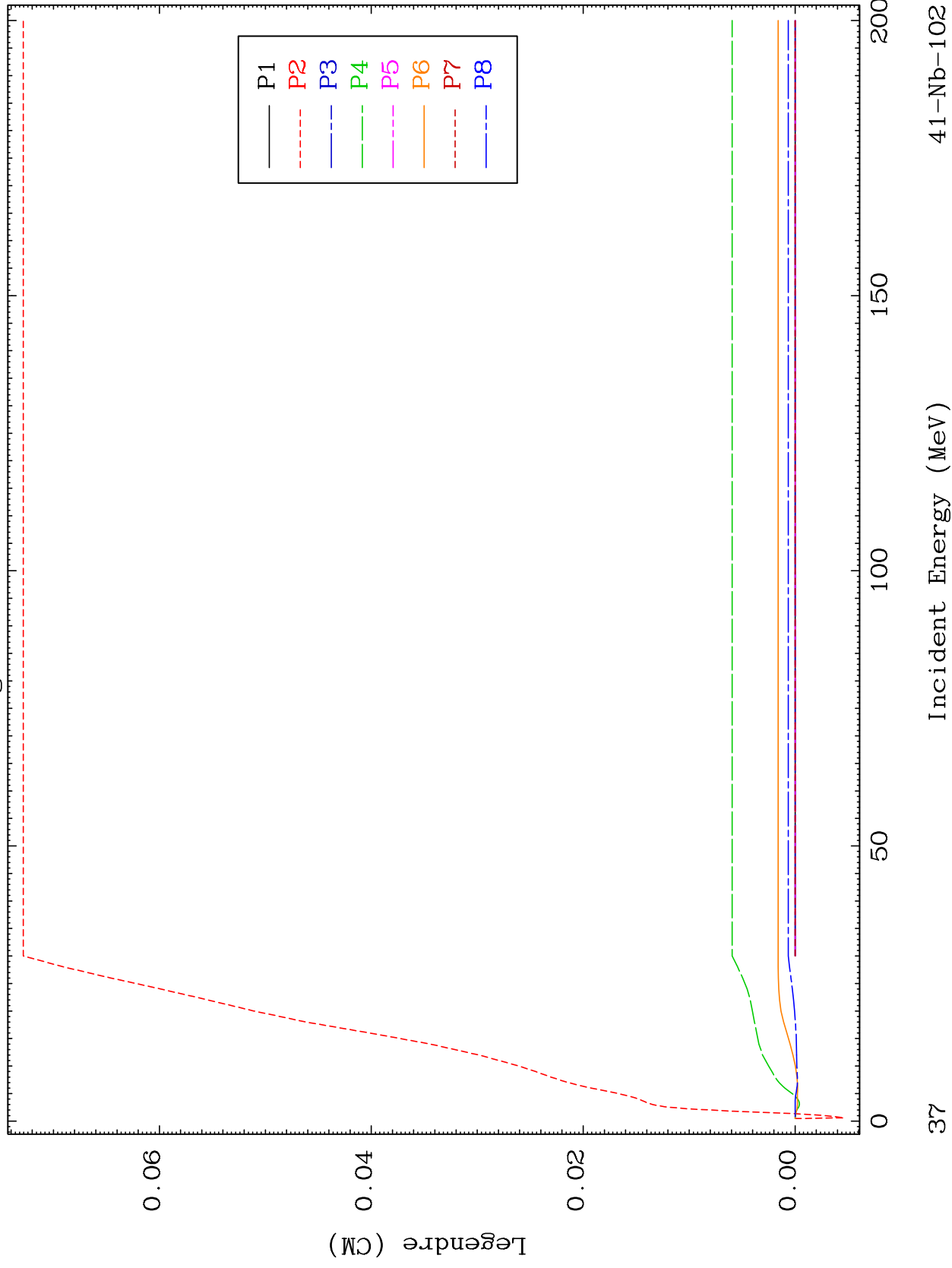
35



MAT 4152

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

41-Nb-102



41-Nb-102

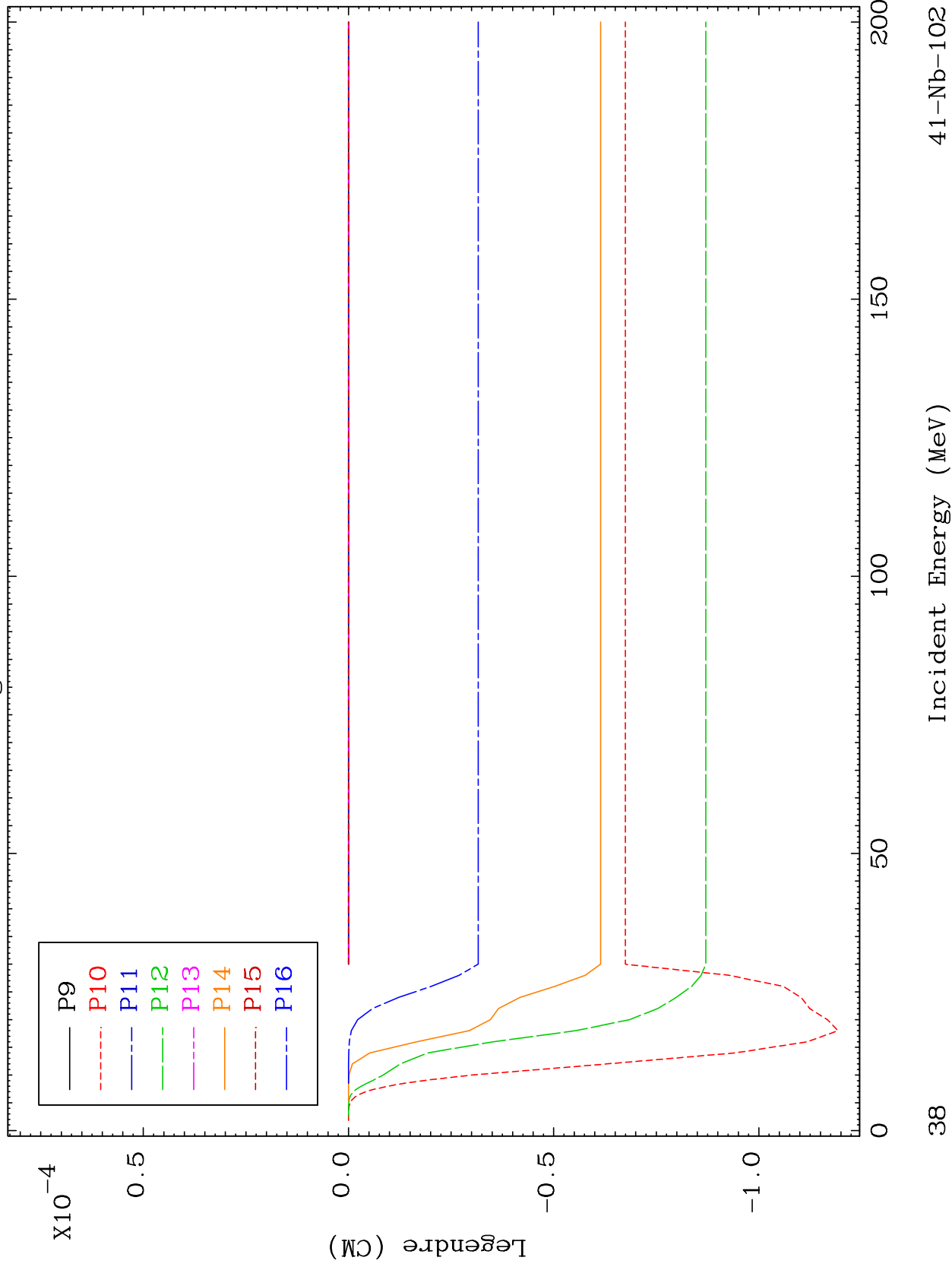
Incident Energy (MeV)

37

MAT 4152

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

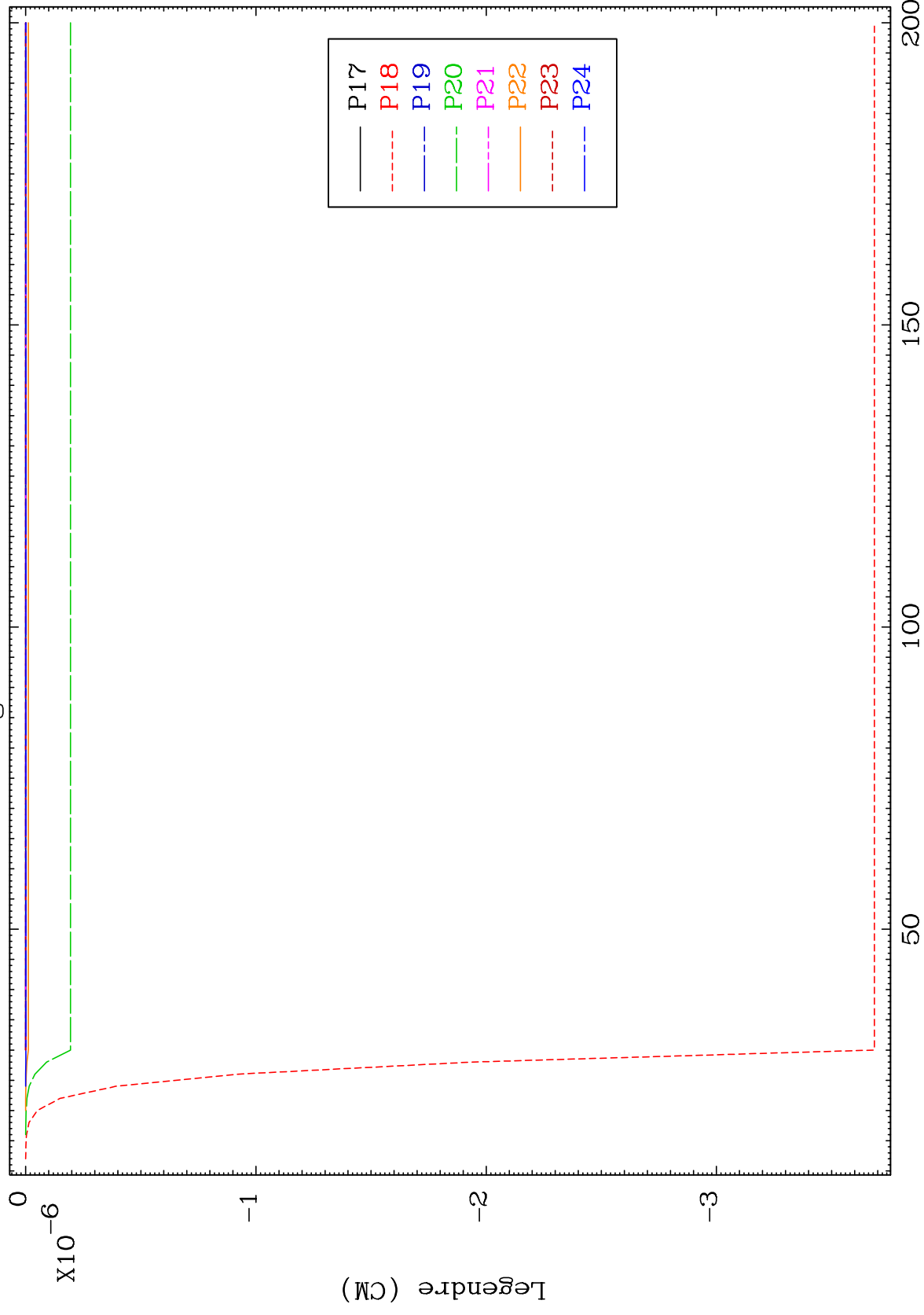
41-Nb-102



MAT 4152

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

41-Nb-102



39

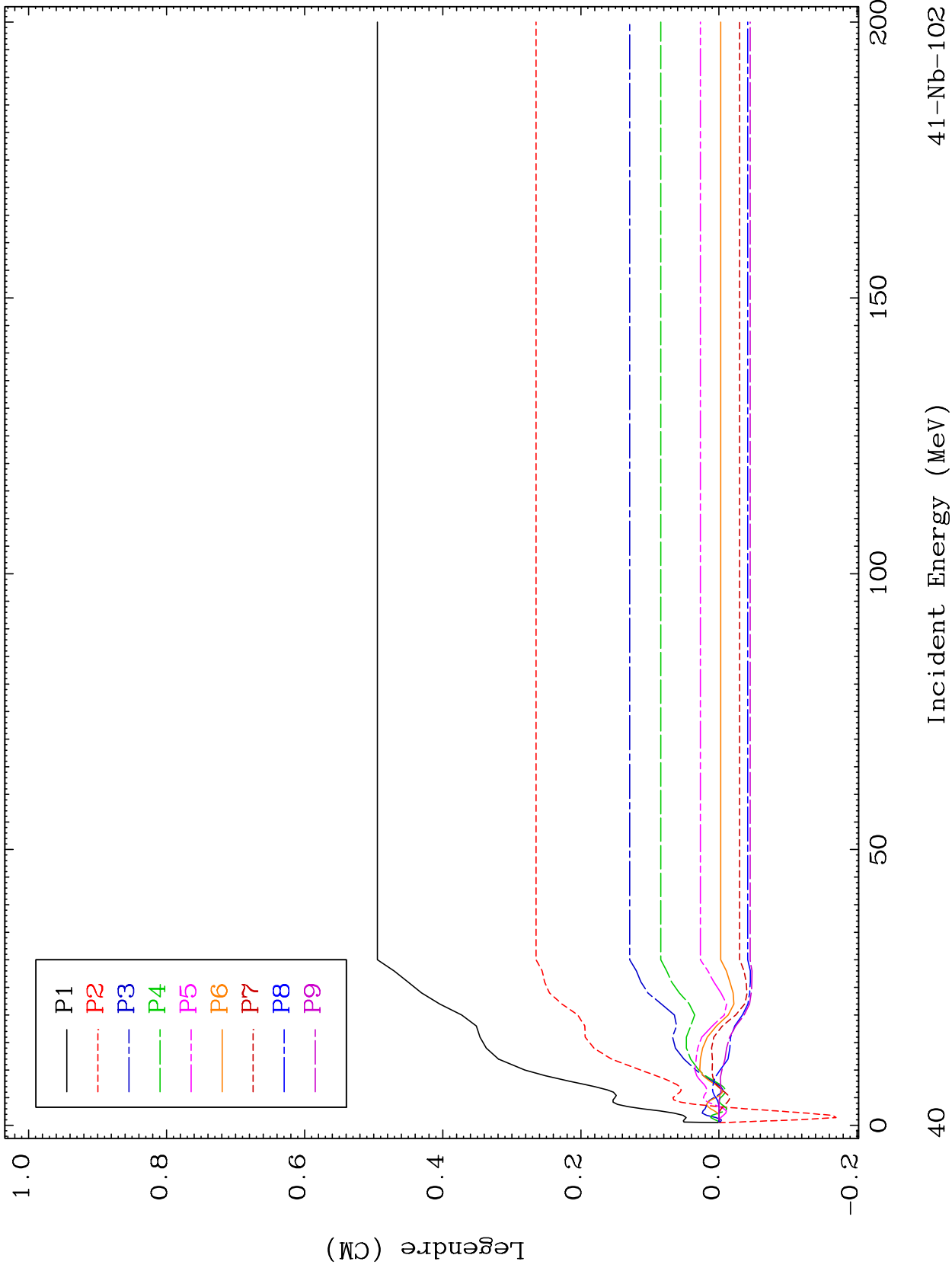
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

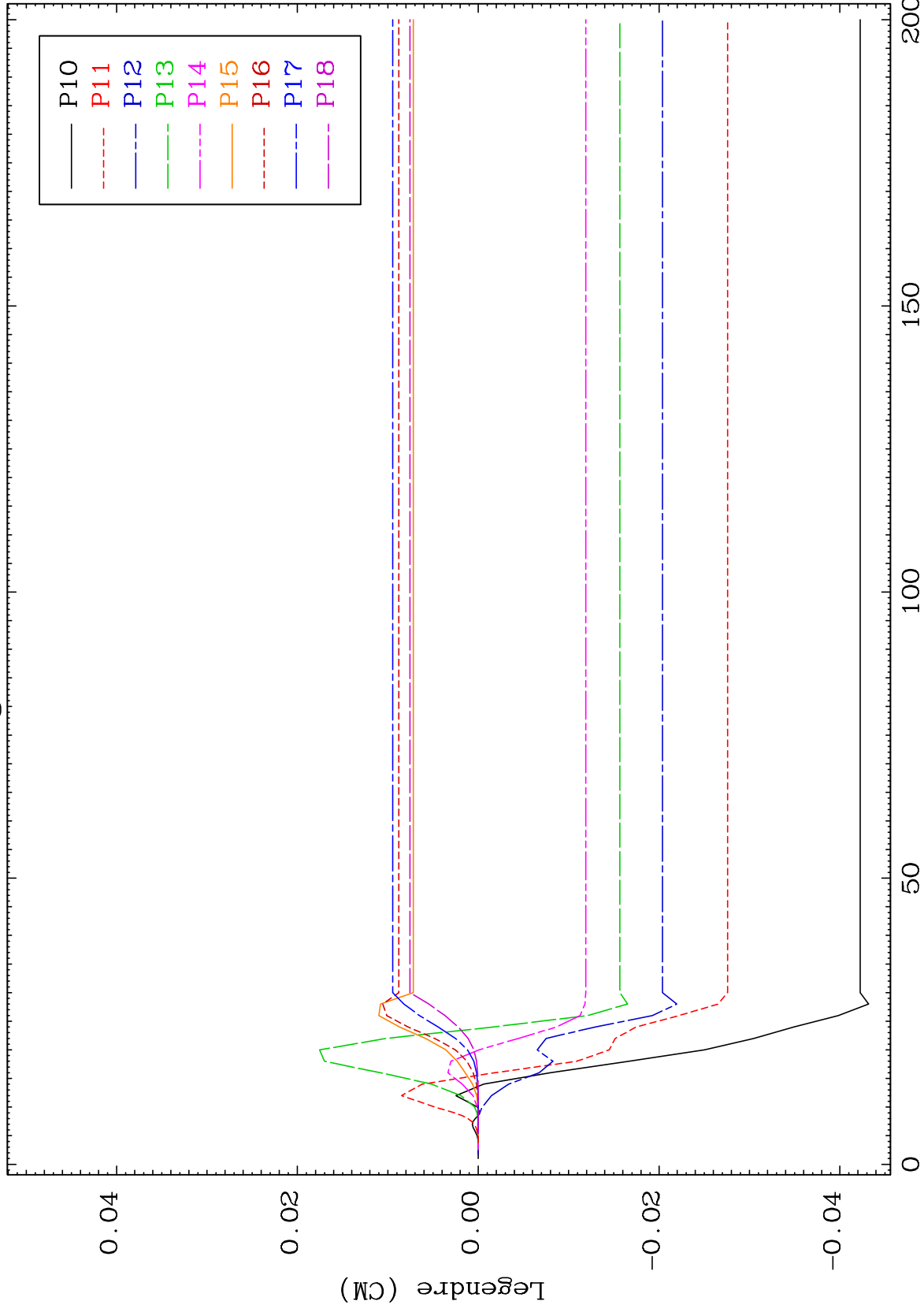
41-Nb-102



MAT 4152

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

41-Nb-102



41

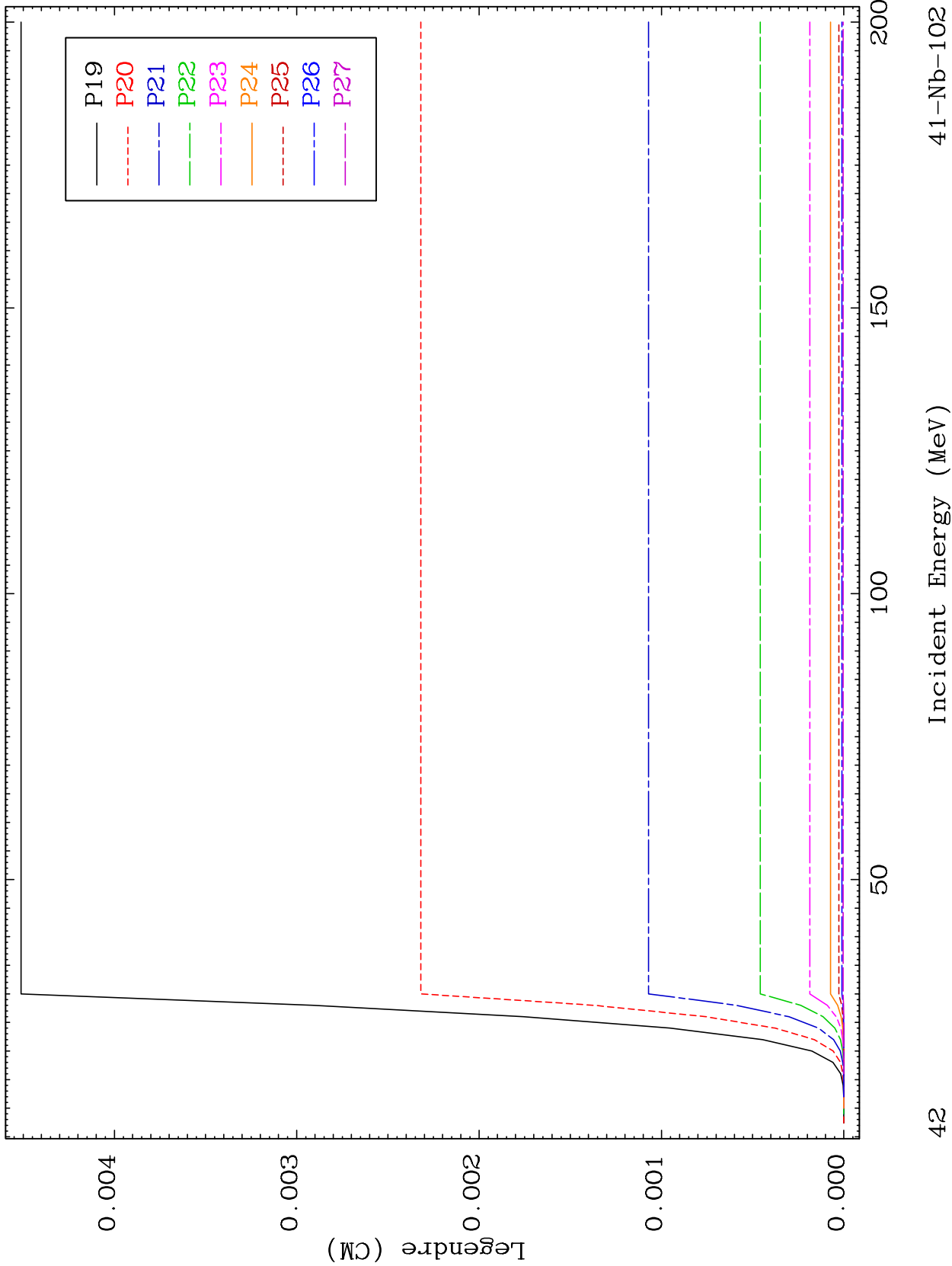
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



42

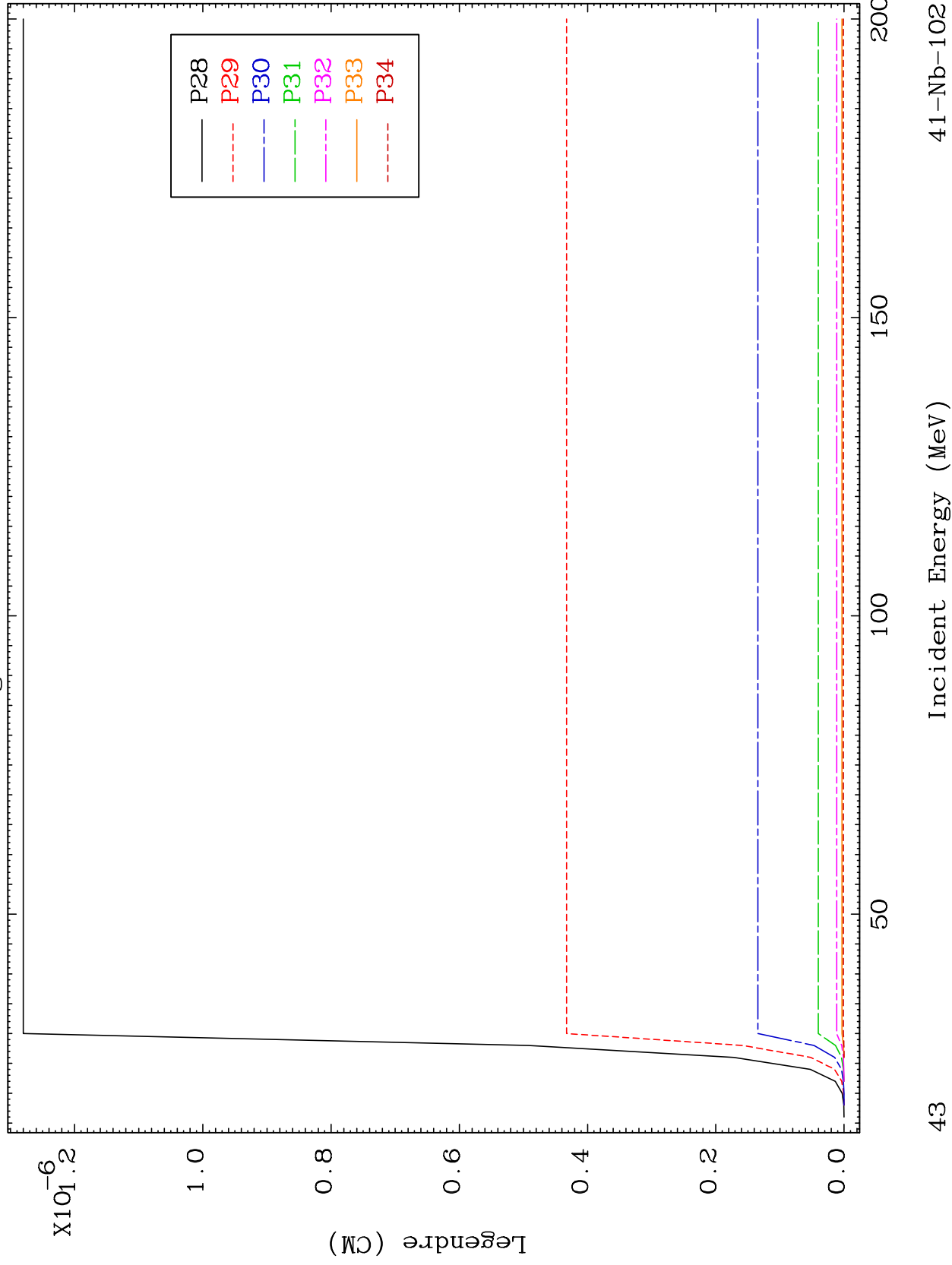
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



43

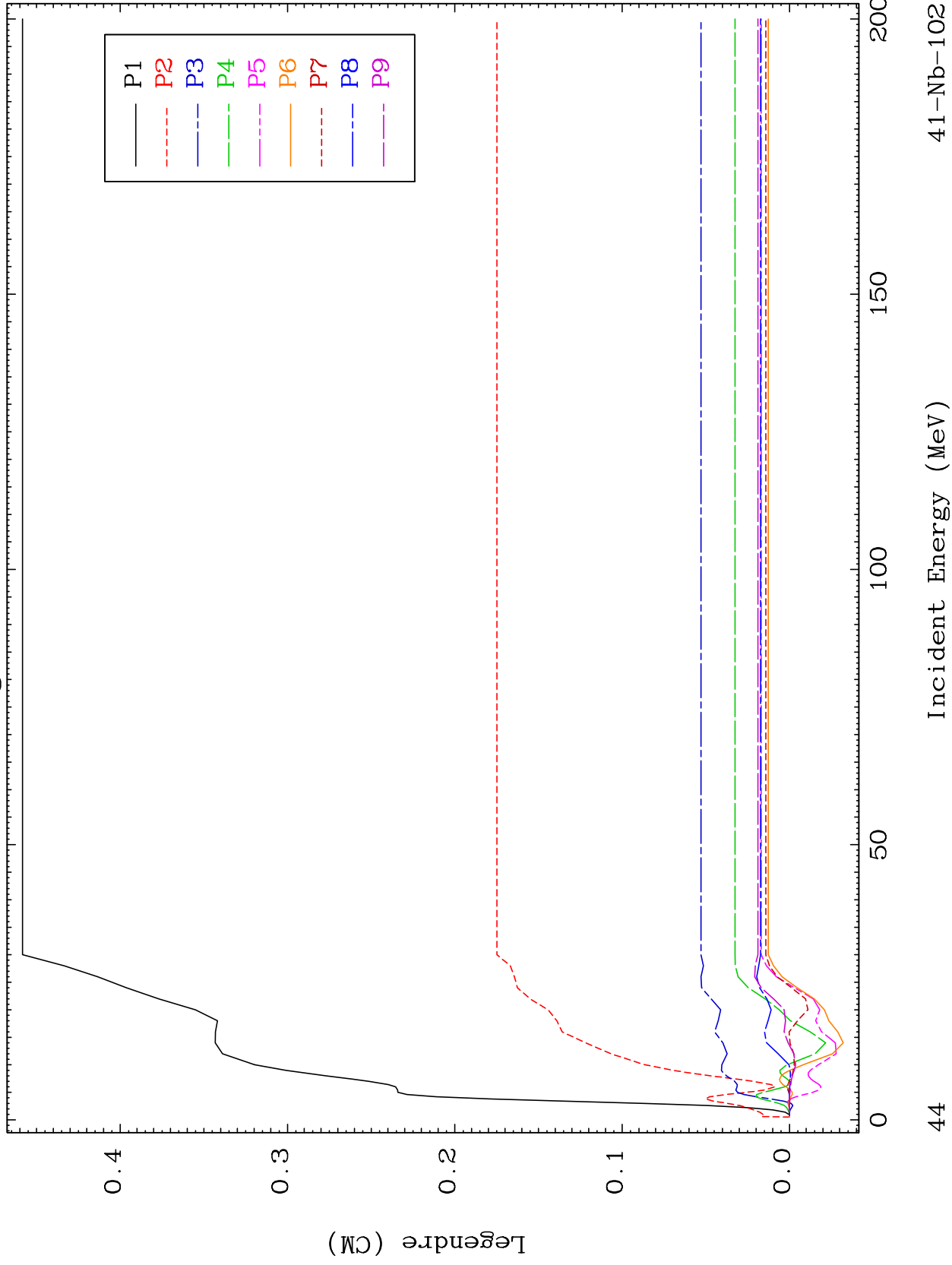
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



44

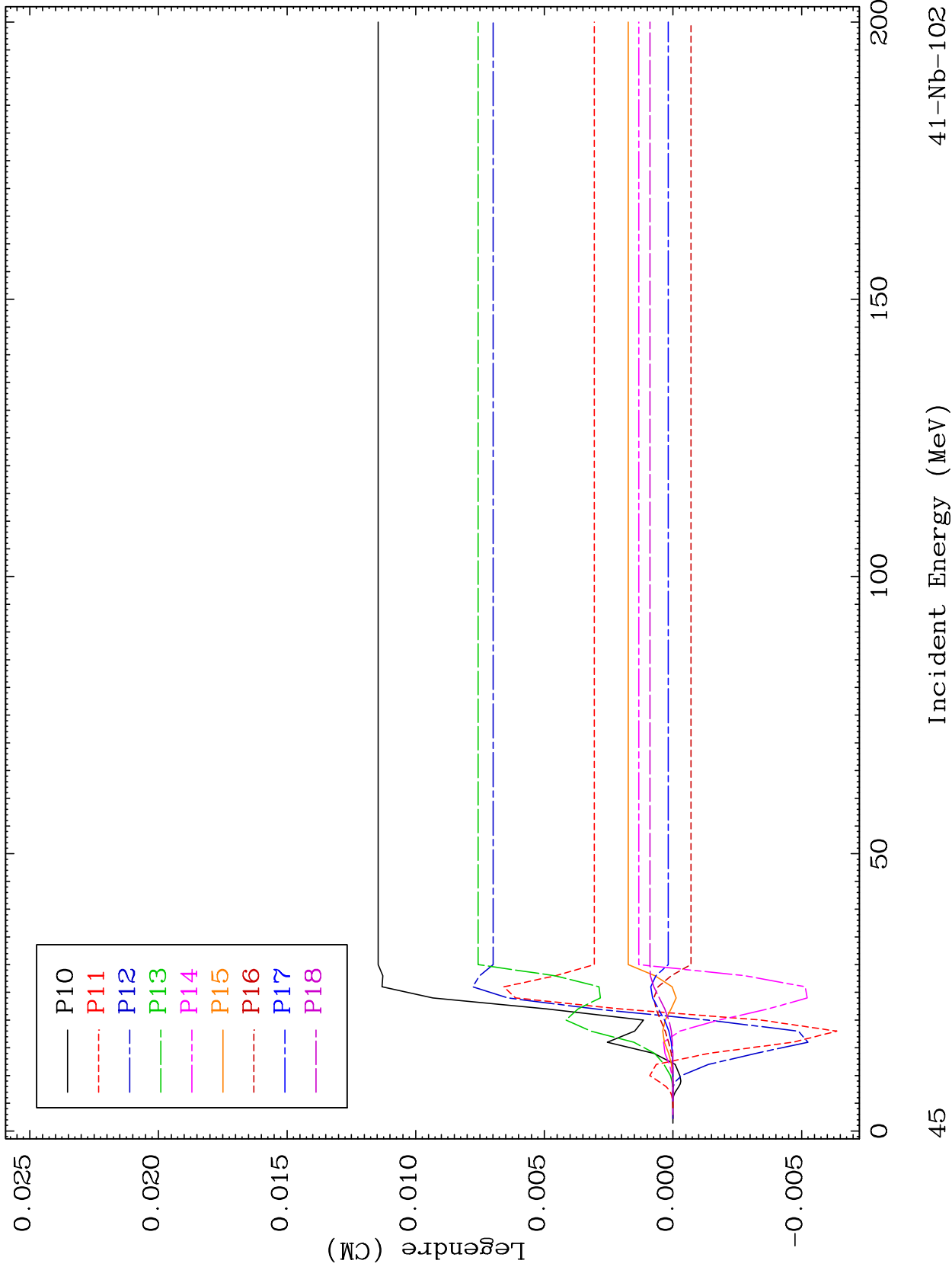
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

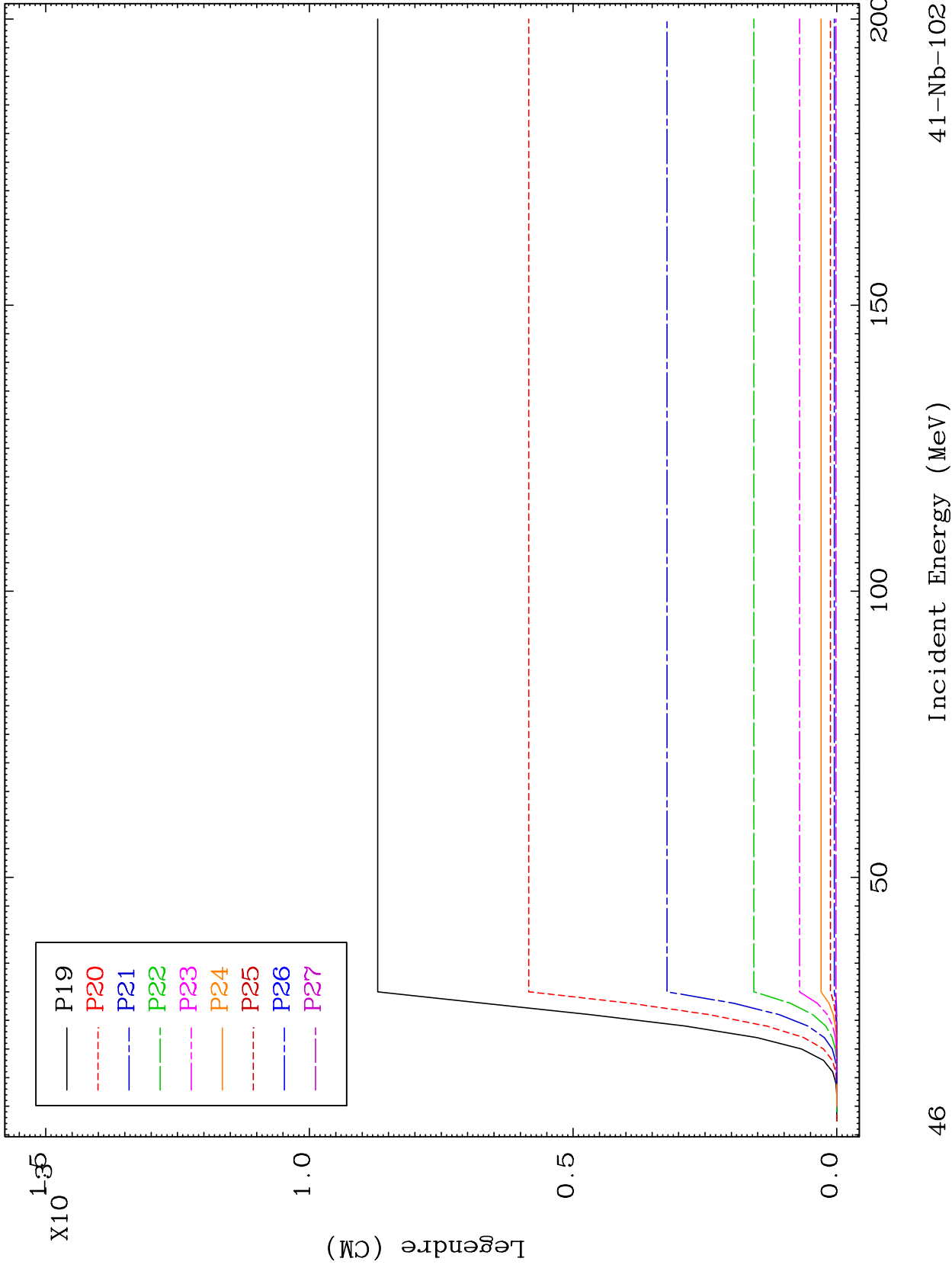
41-Nb-102



41-Nb-102

Incident Energy (MeV)

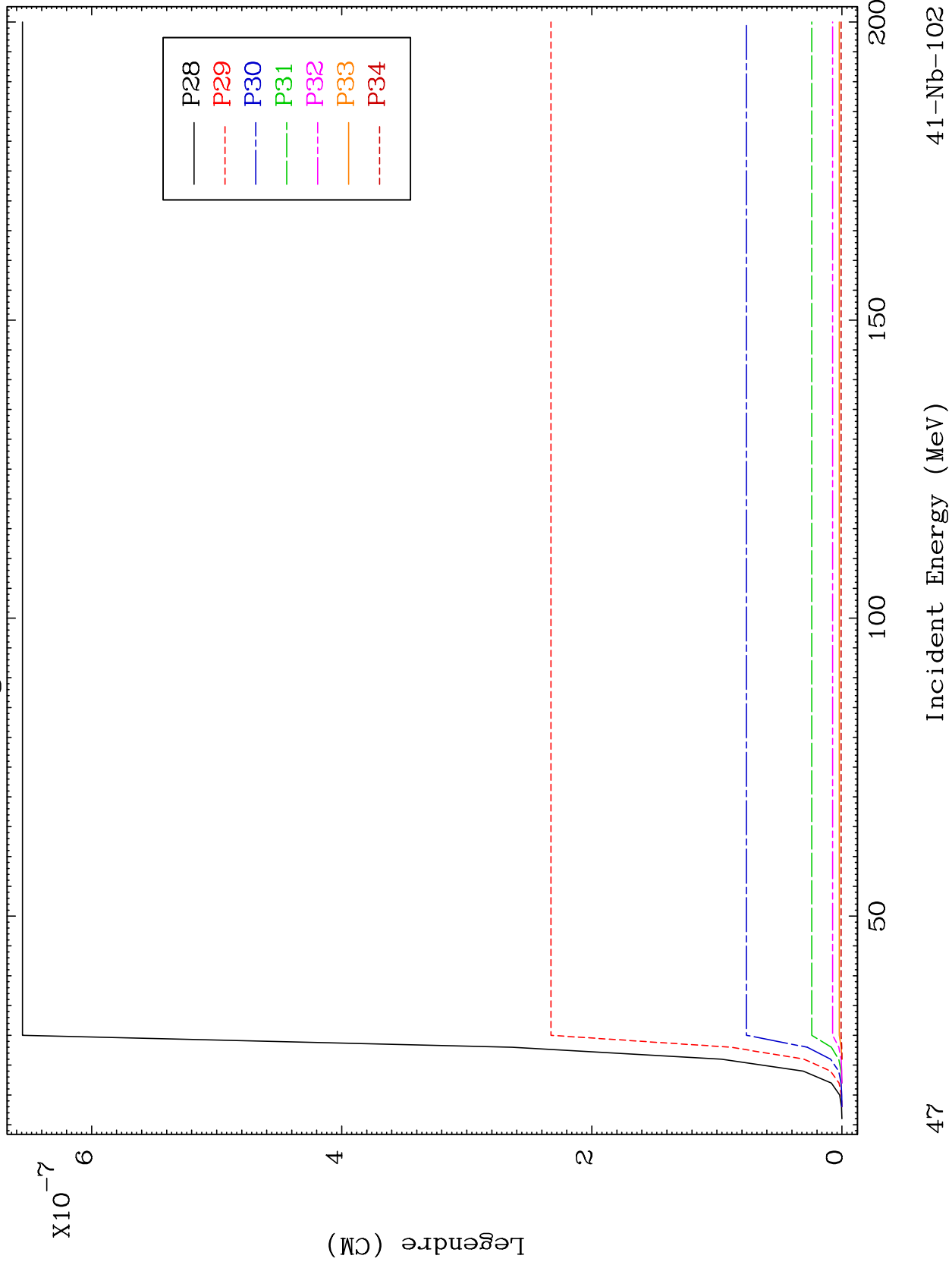
45



MAT 4152

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

41-Nb-102



47

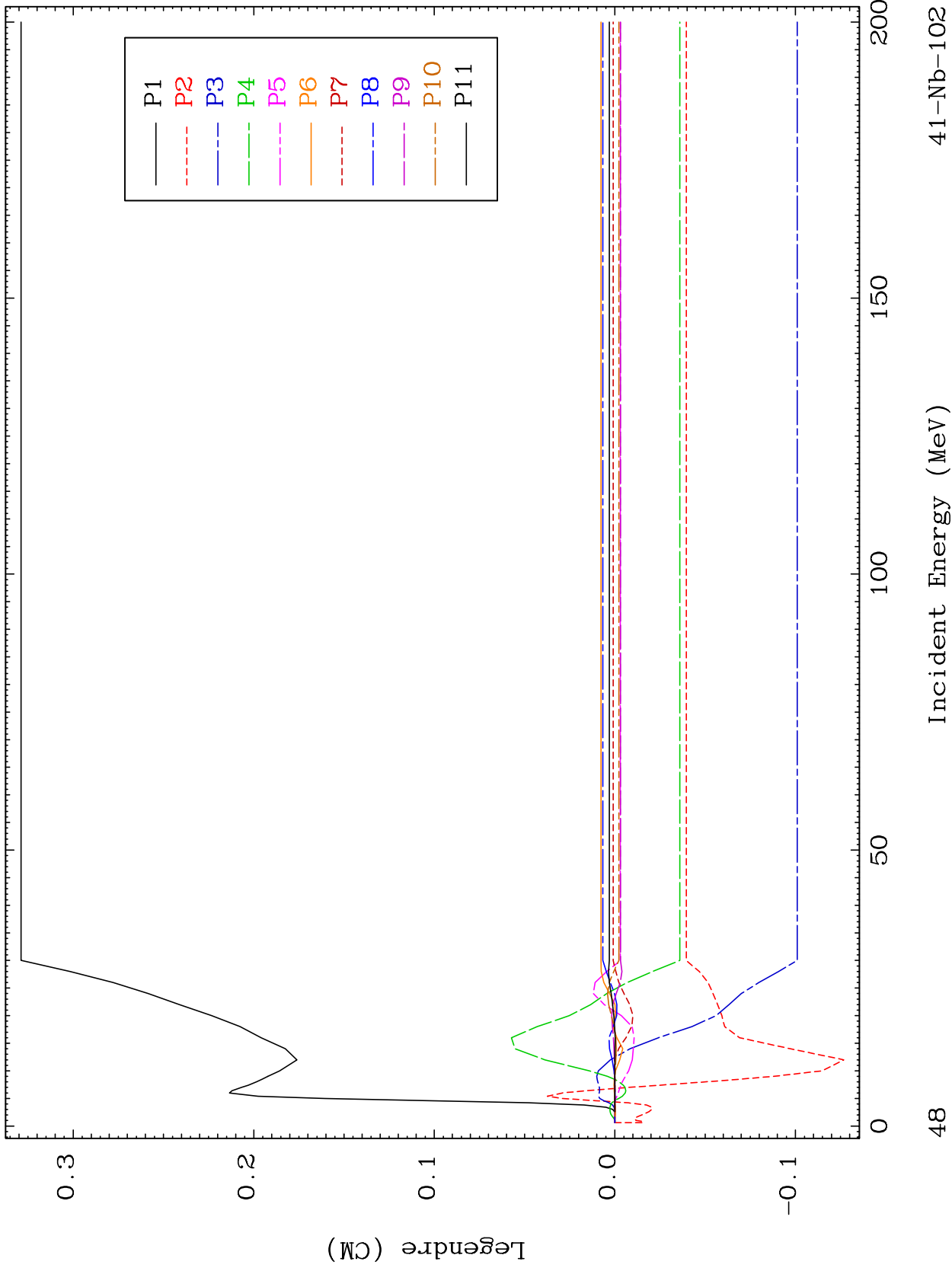
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



41-Nb-102

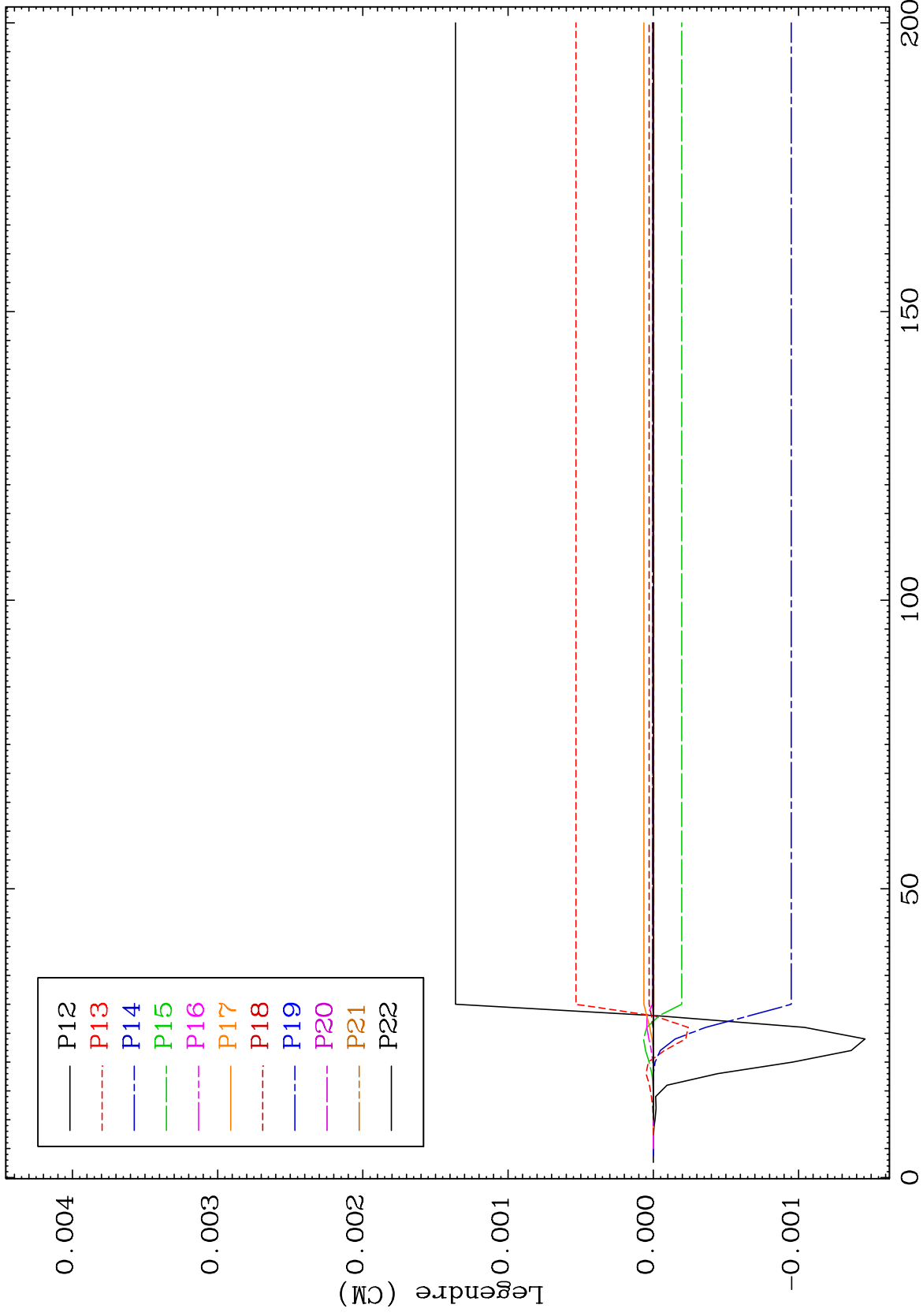
Incident Energy (MeV)

48

MAT 4152

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

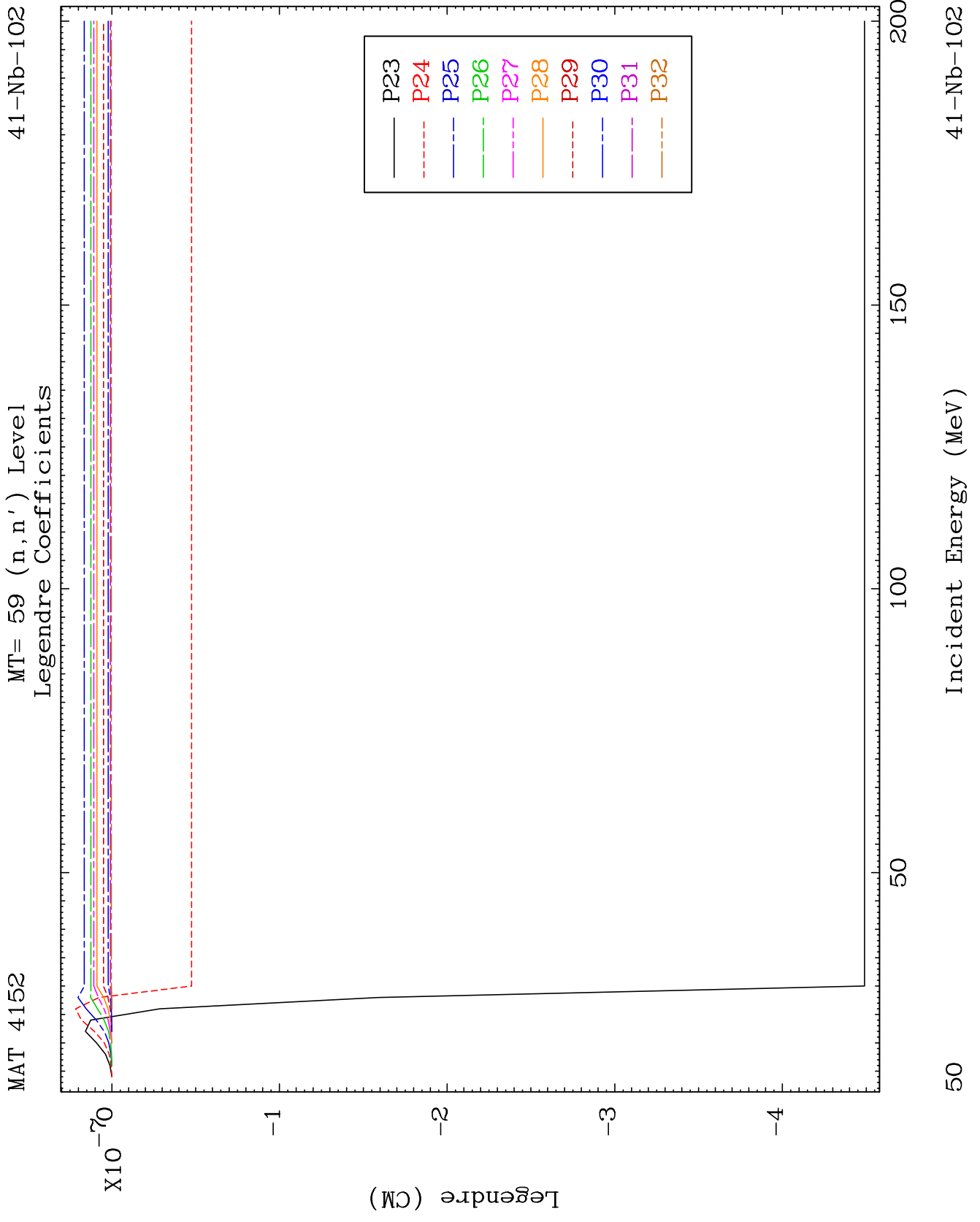
41-Nb-102



49

Incident Energy (MeV)

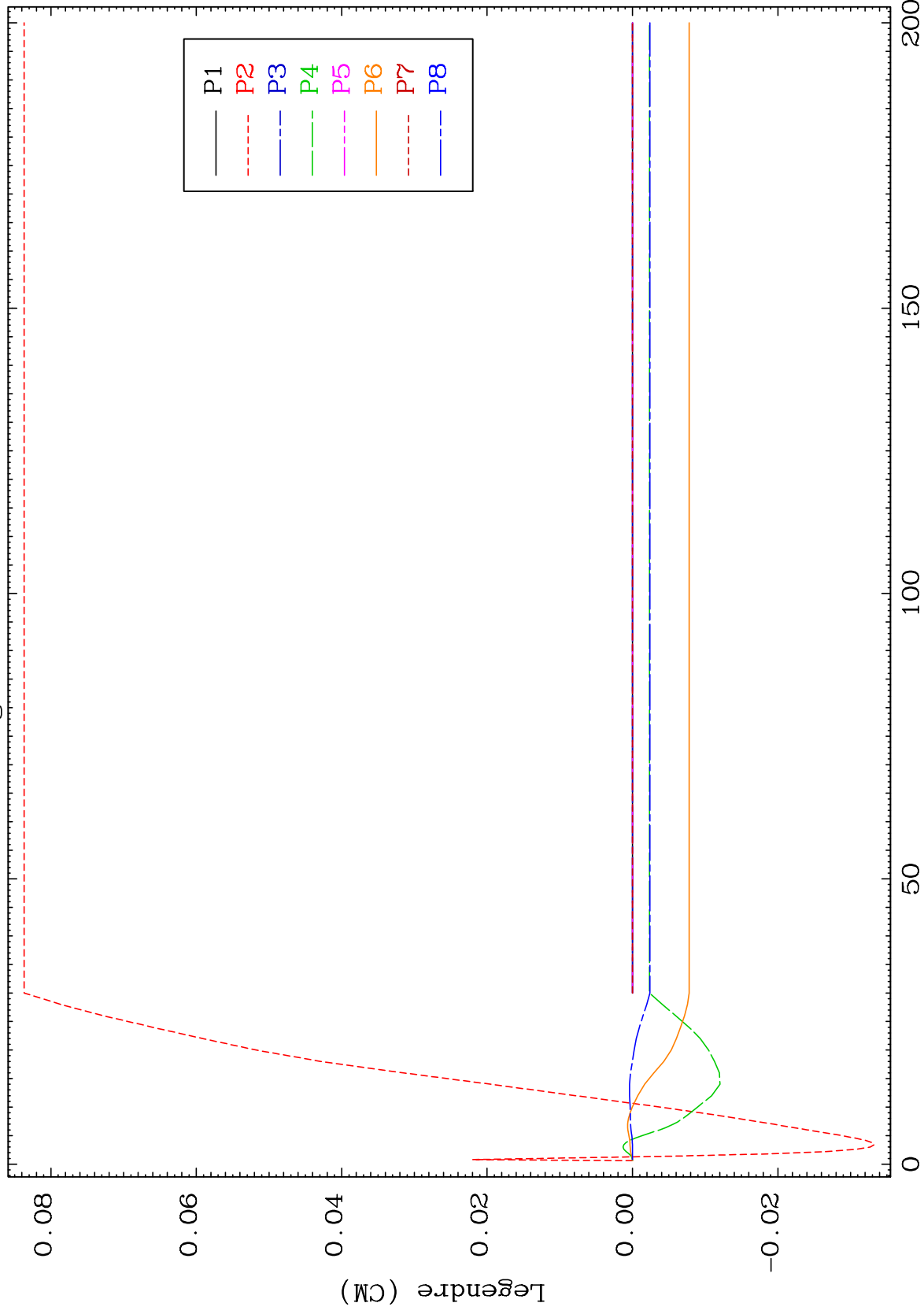
41-Nb-102



MAT 4152

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

41-Nb-102



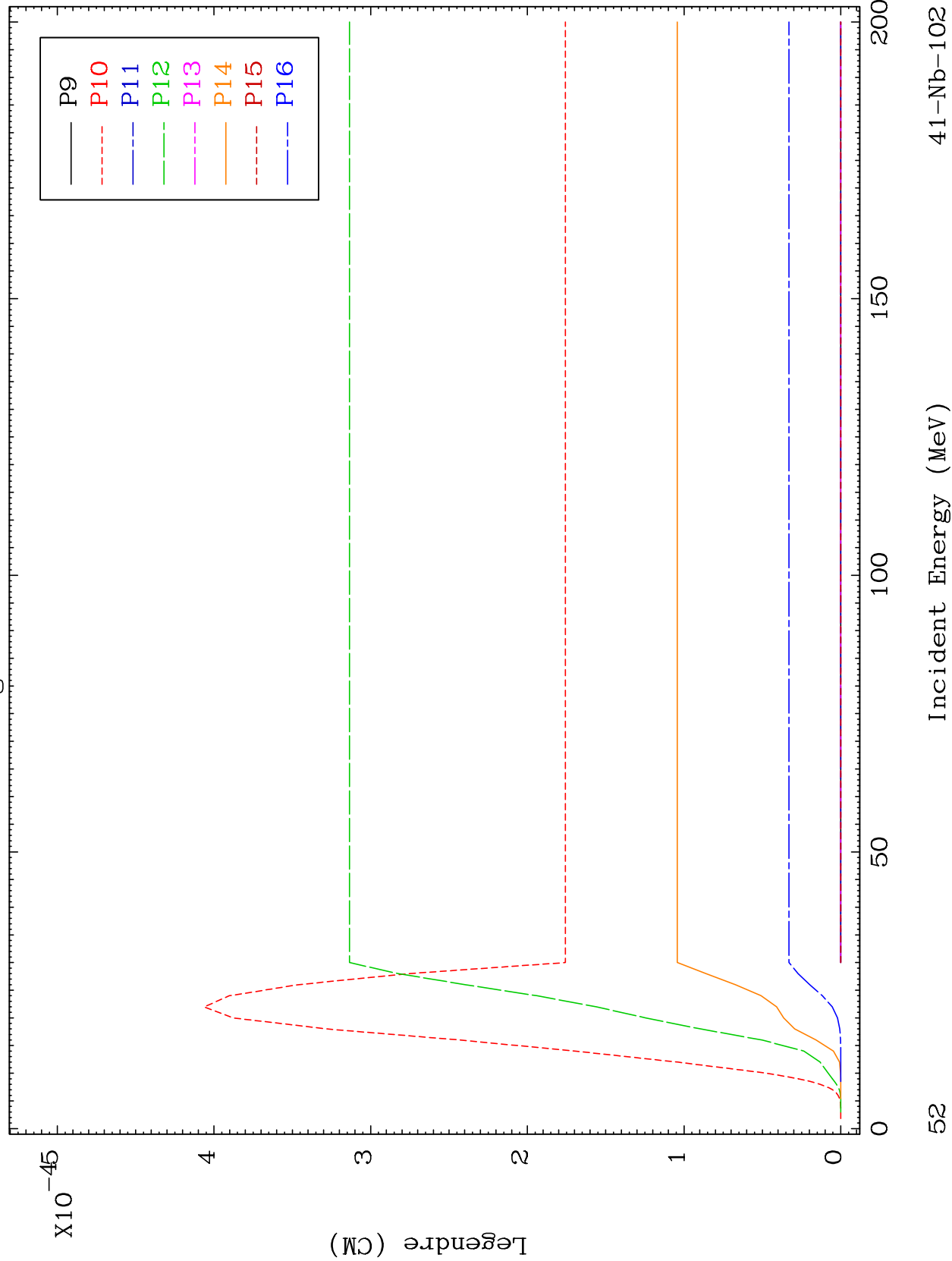
51

41-Nb-102

MAT 4152

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

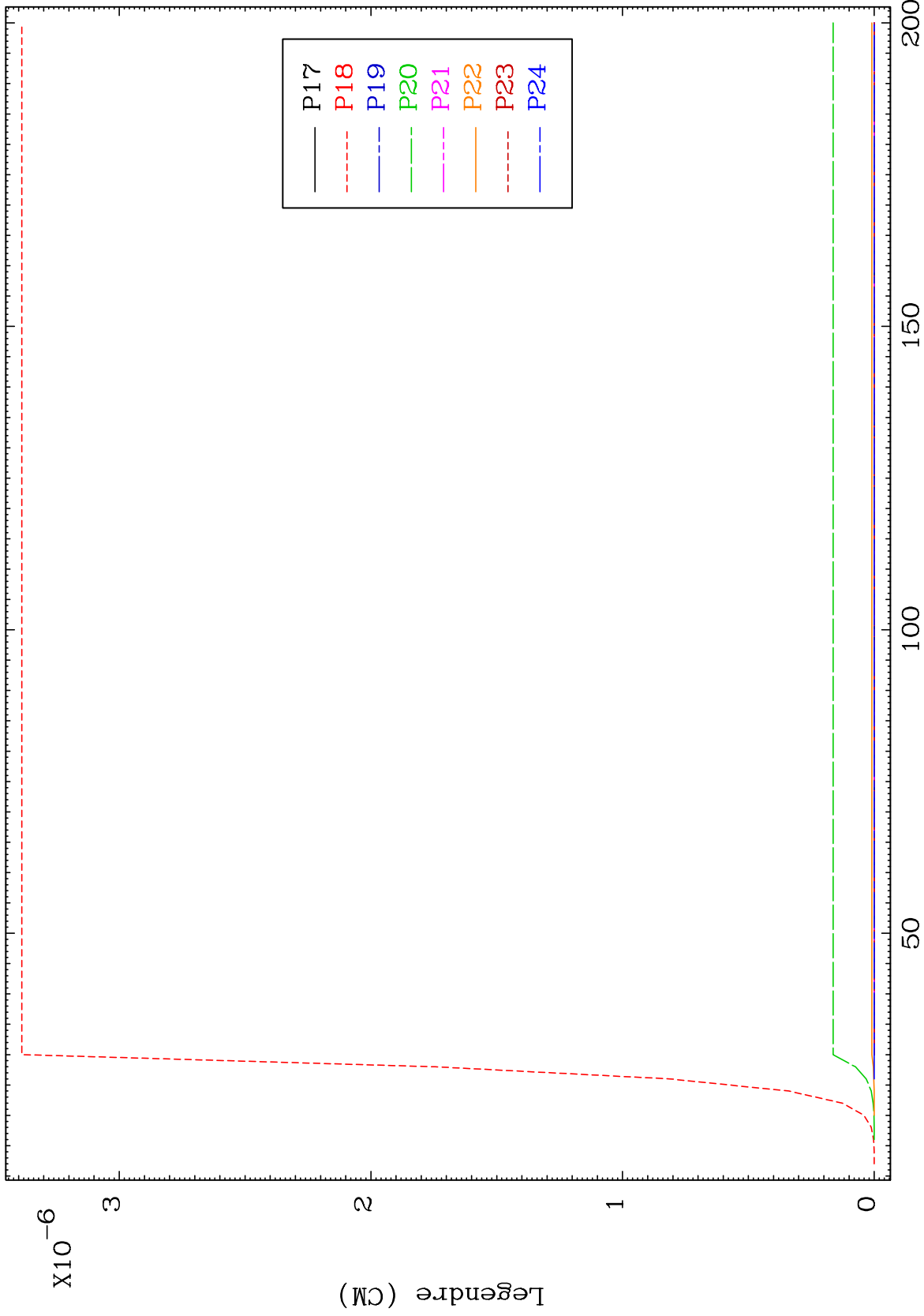
41-Nb-102



MAT 4152

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

41-Nb-102



53

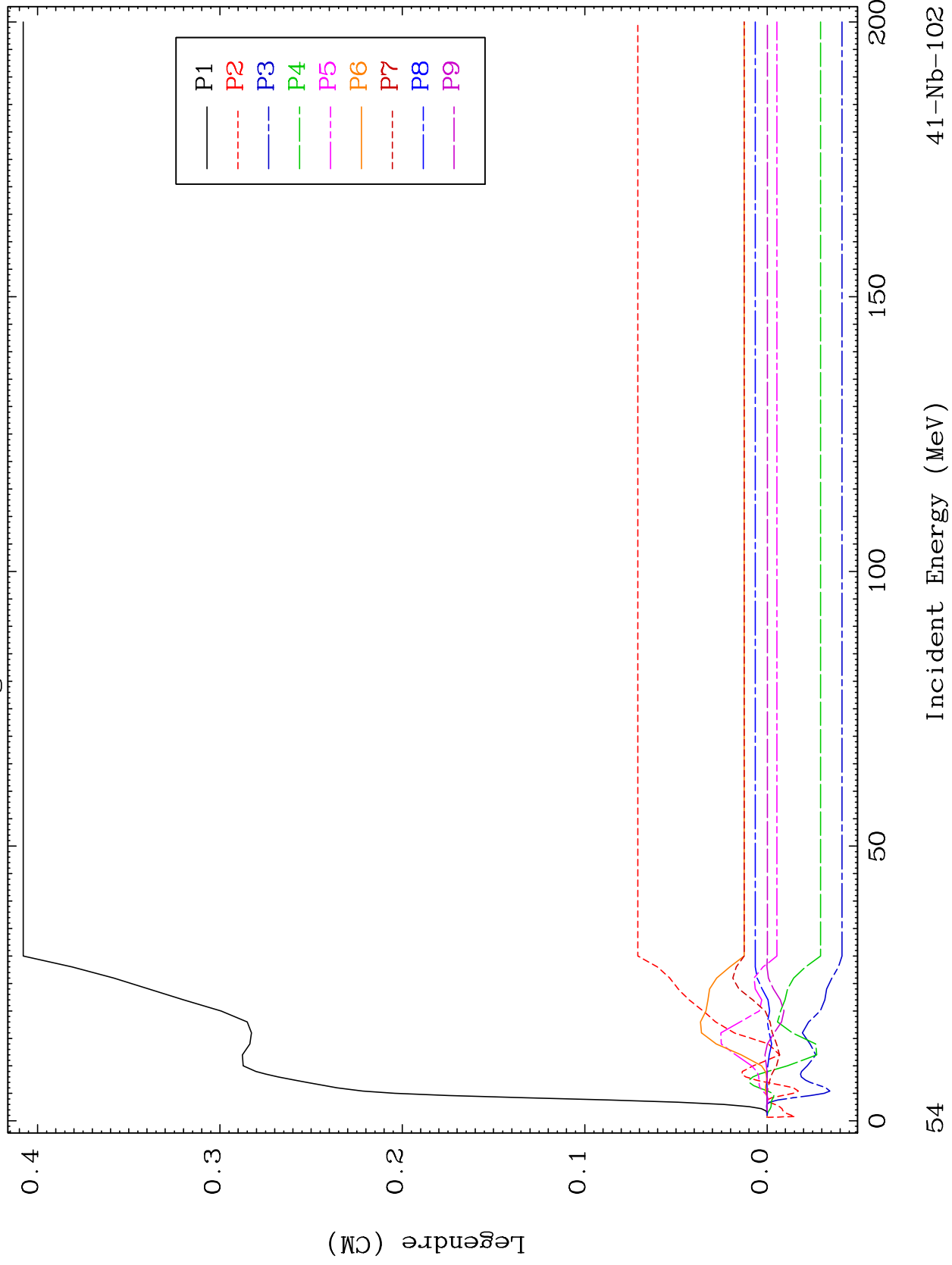
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102

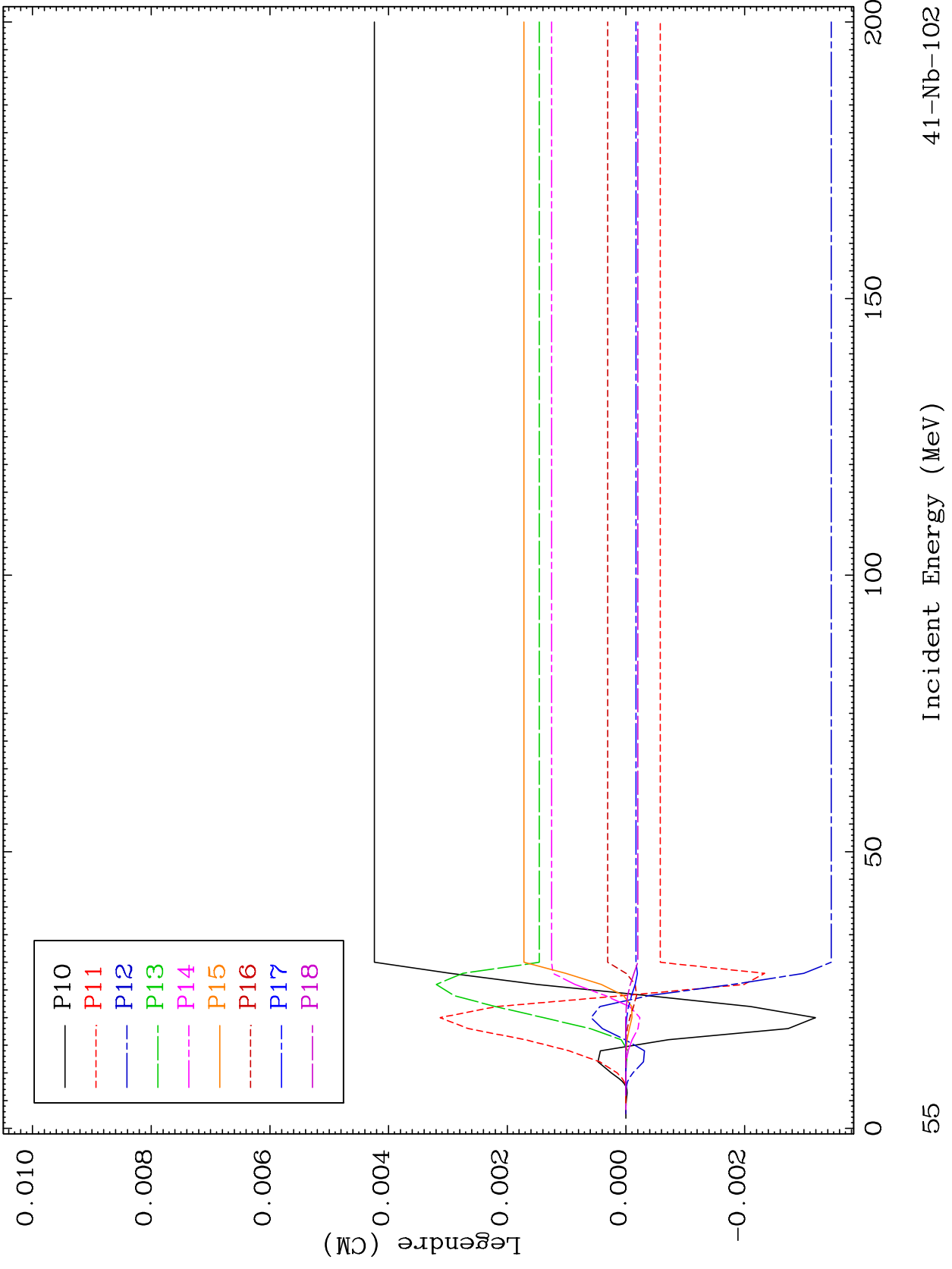


54

MAT 4152

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

41-Nb-102



55

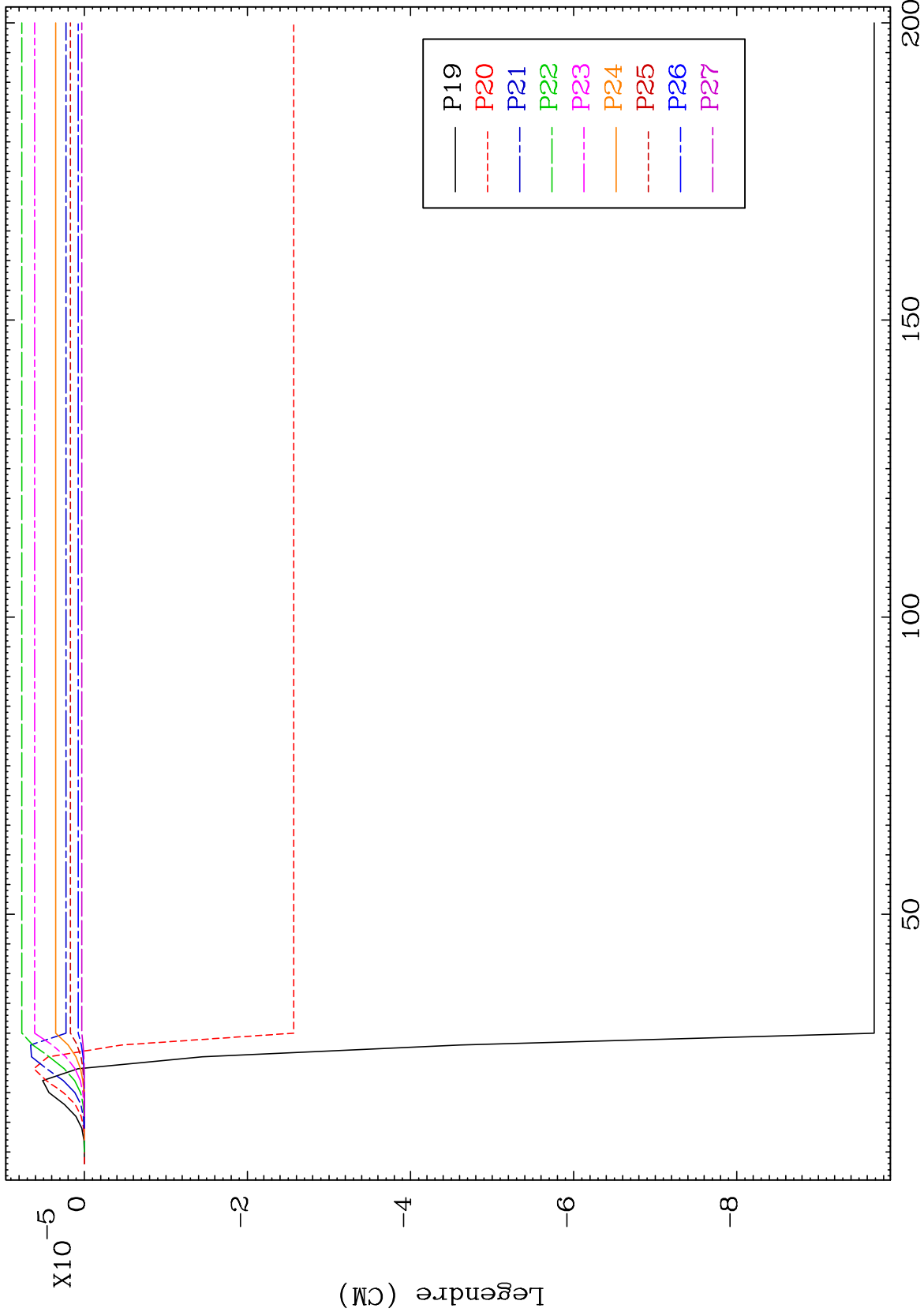
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

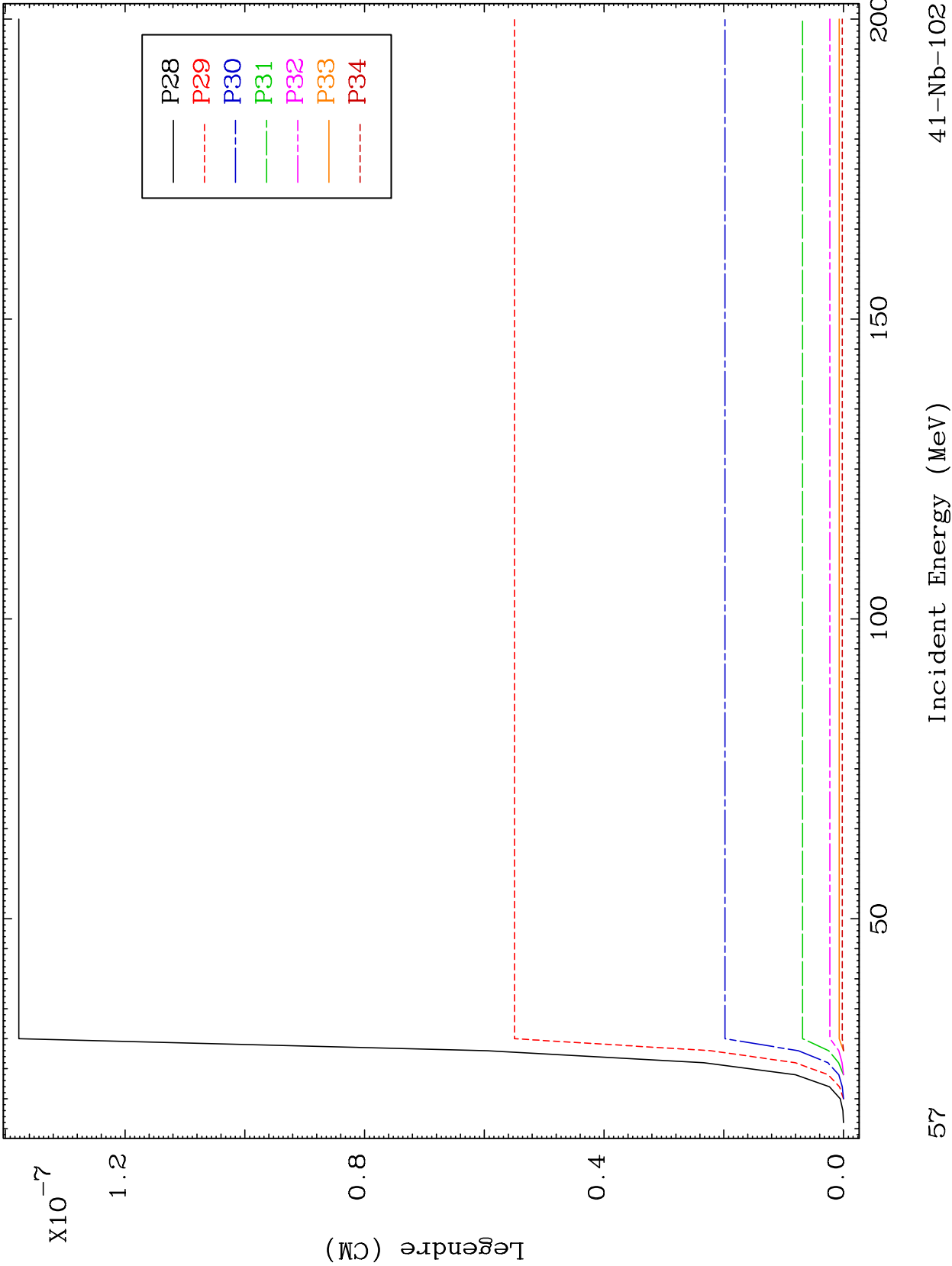
41-Nb-102



56

Incident Energy (MeV)

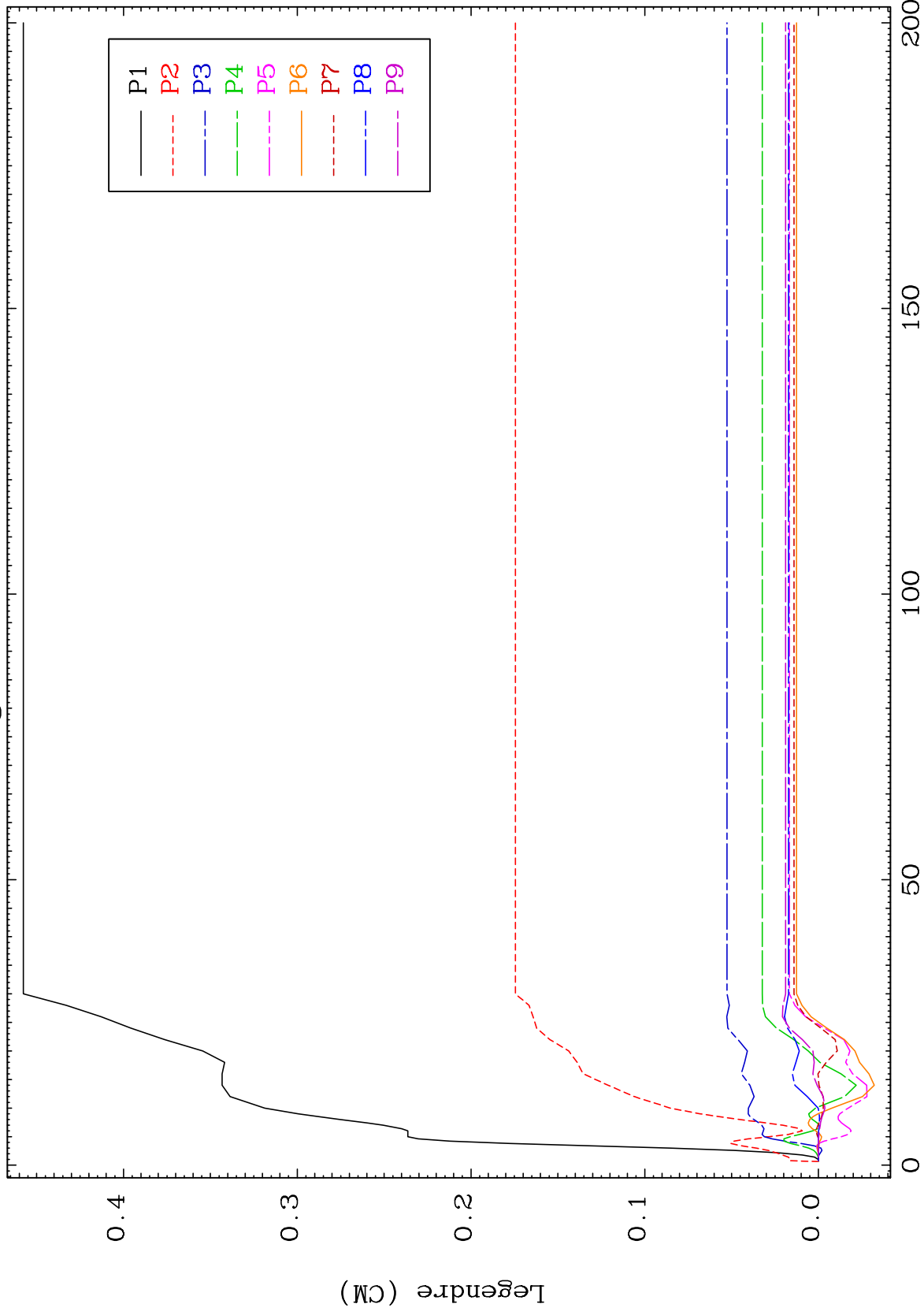
41-Nb-102



MAT 4152

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

41-Nb-102



41-Nb-102

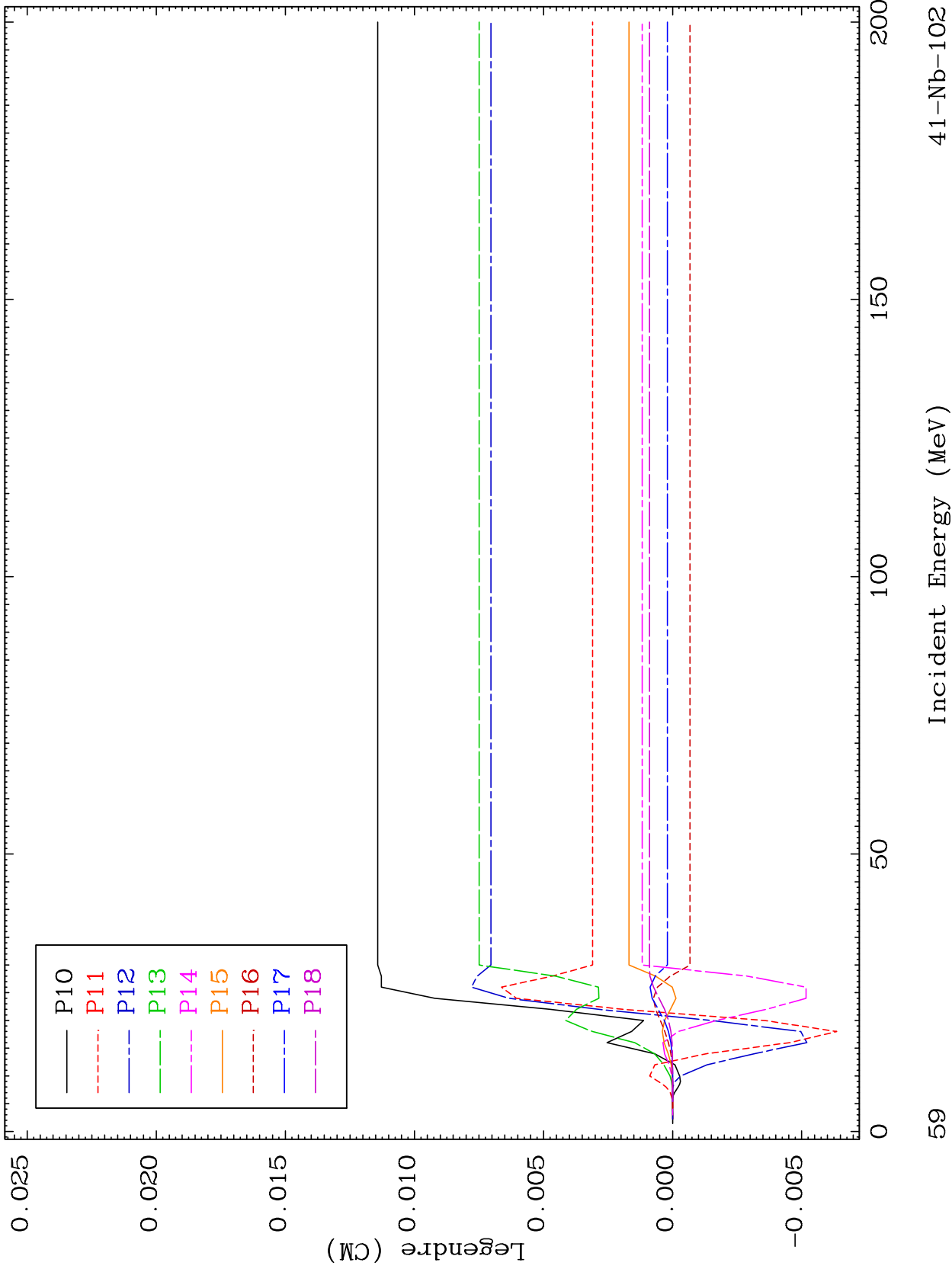
Incident Energy (MeV)

58

MAT 4152

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

41-Nb-102



59

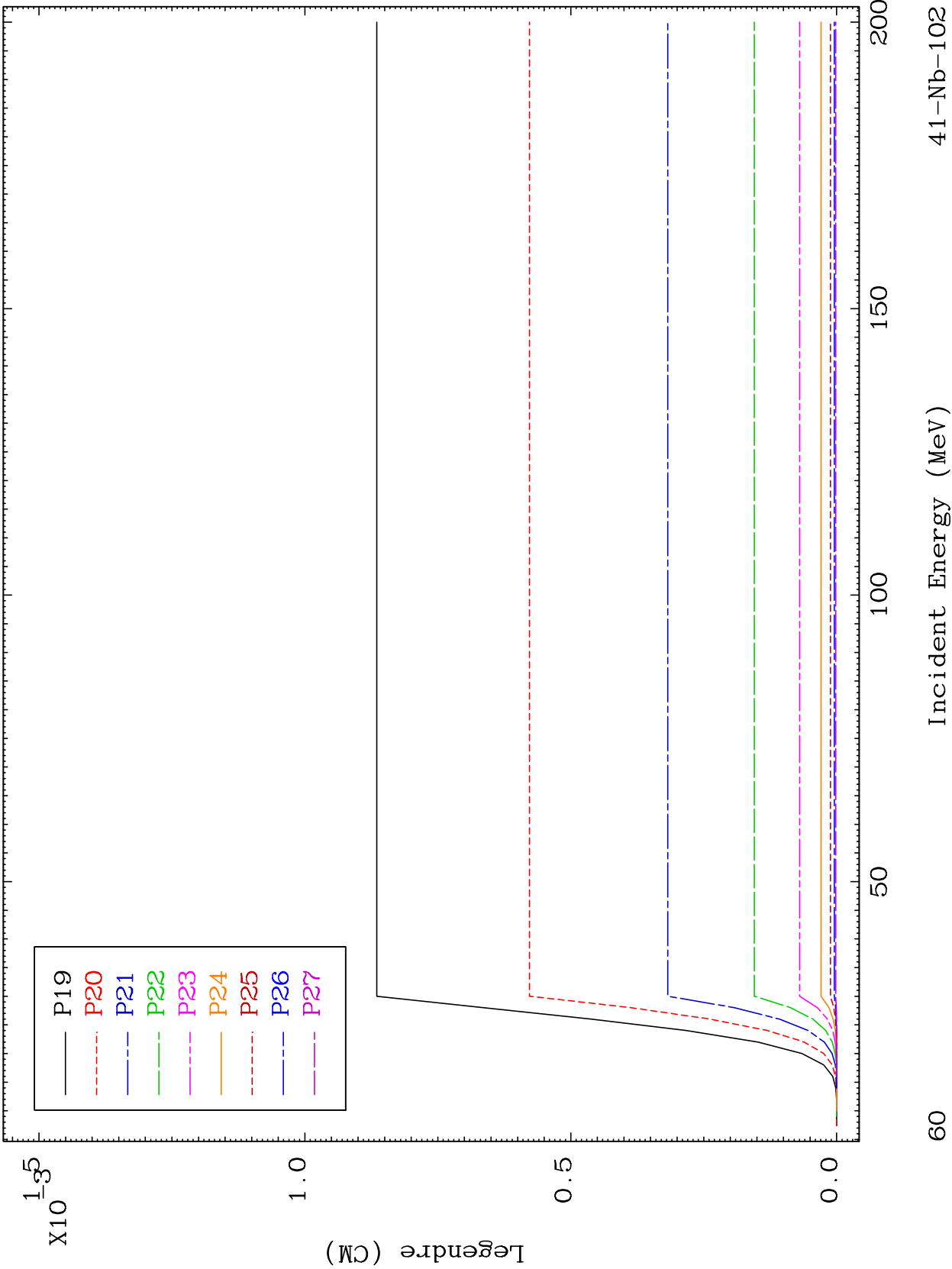
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

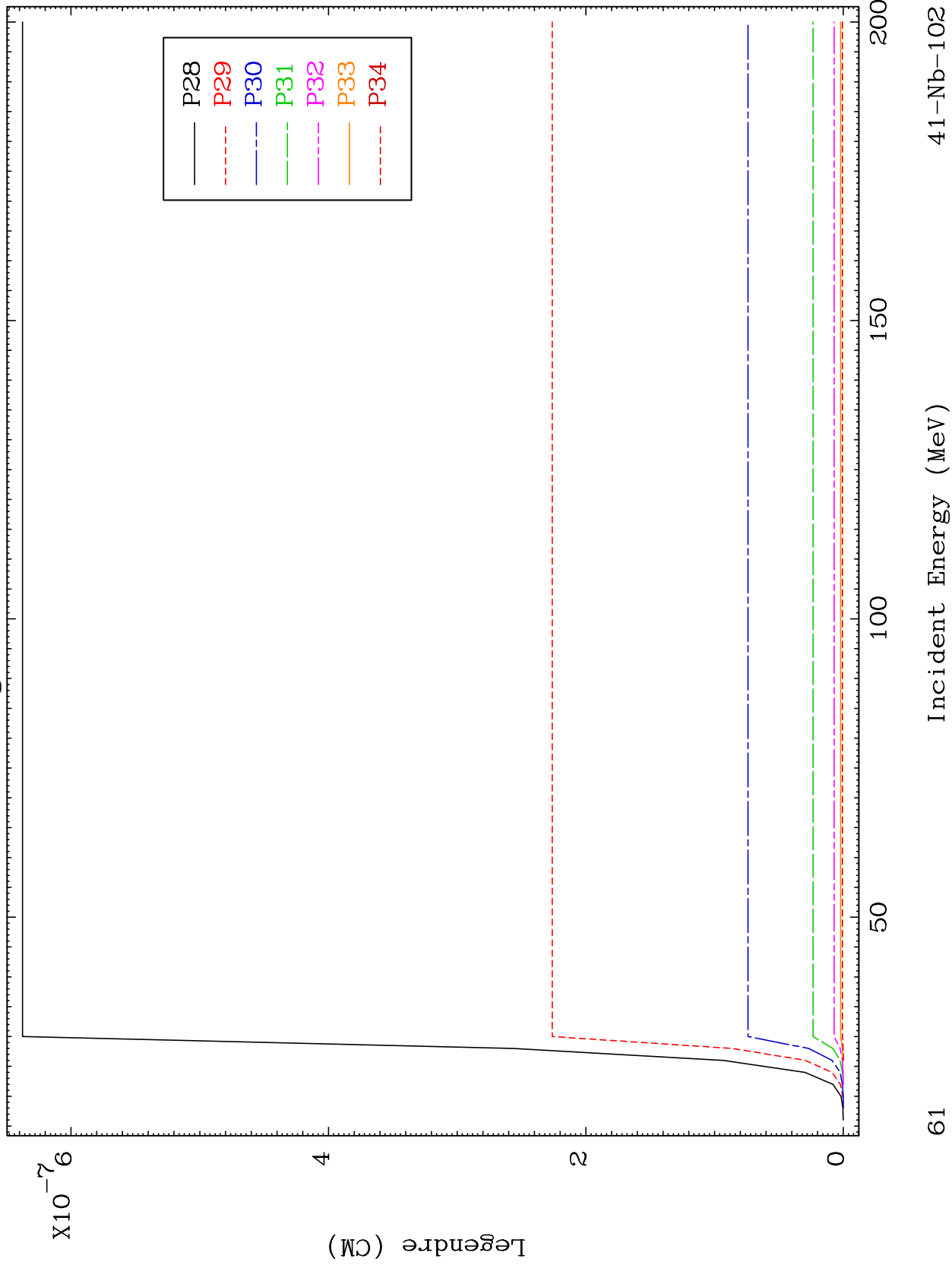
41-Nb-102

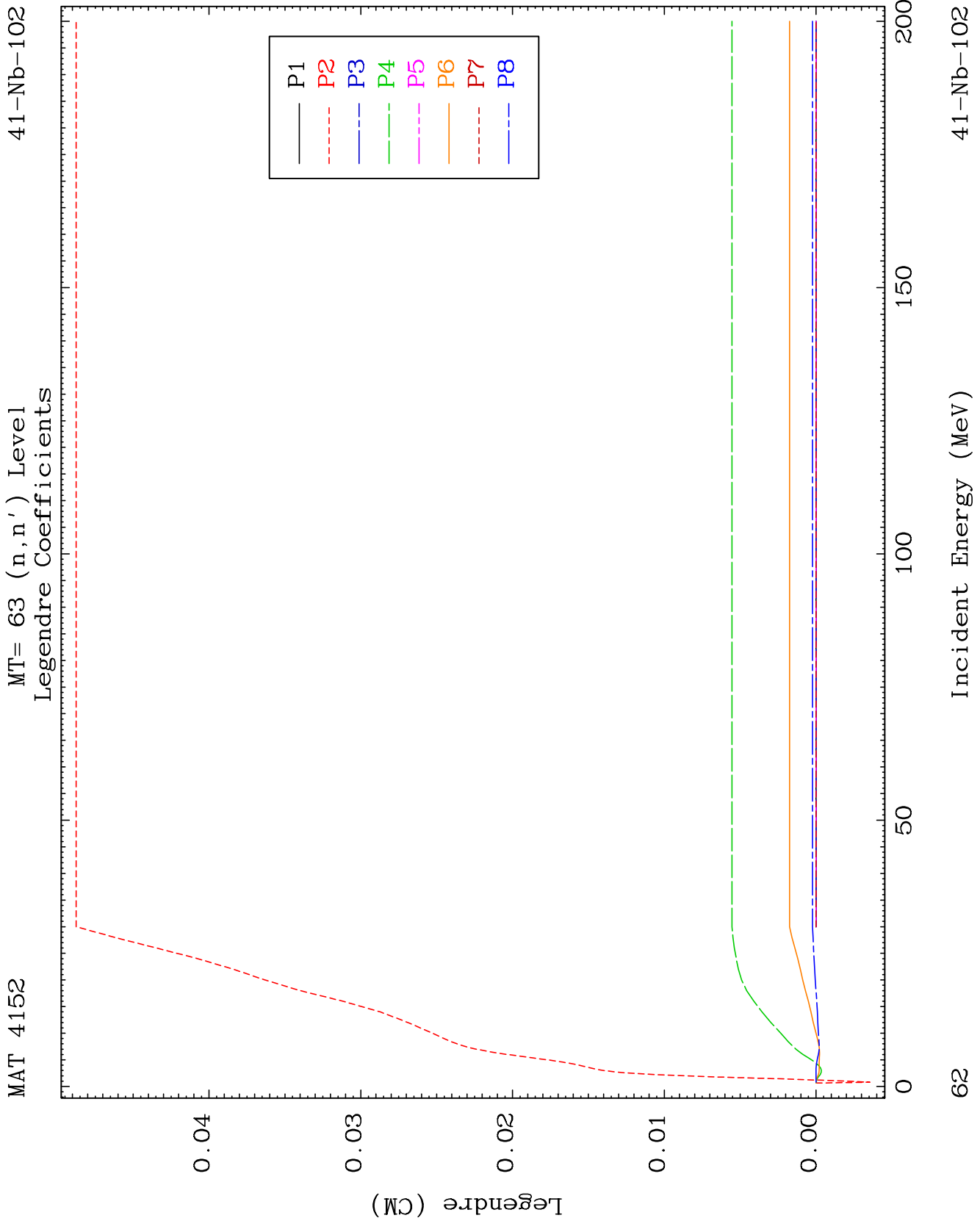


MAT 4152

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

41-Nb-102

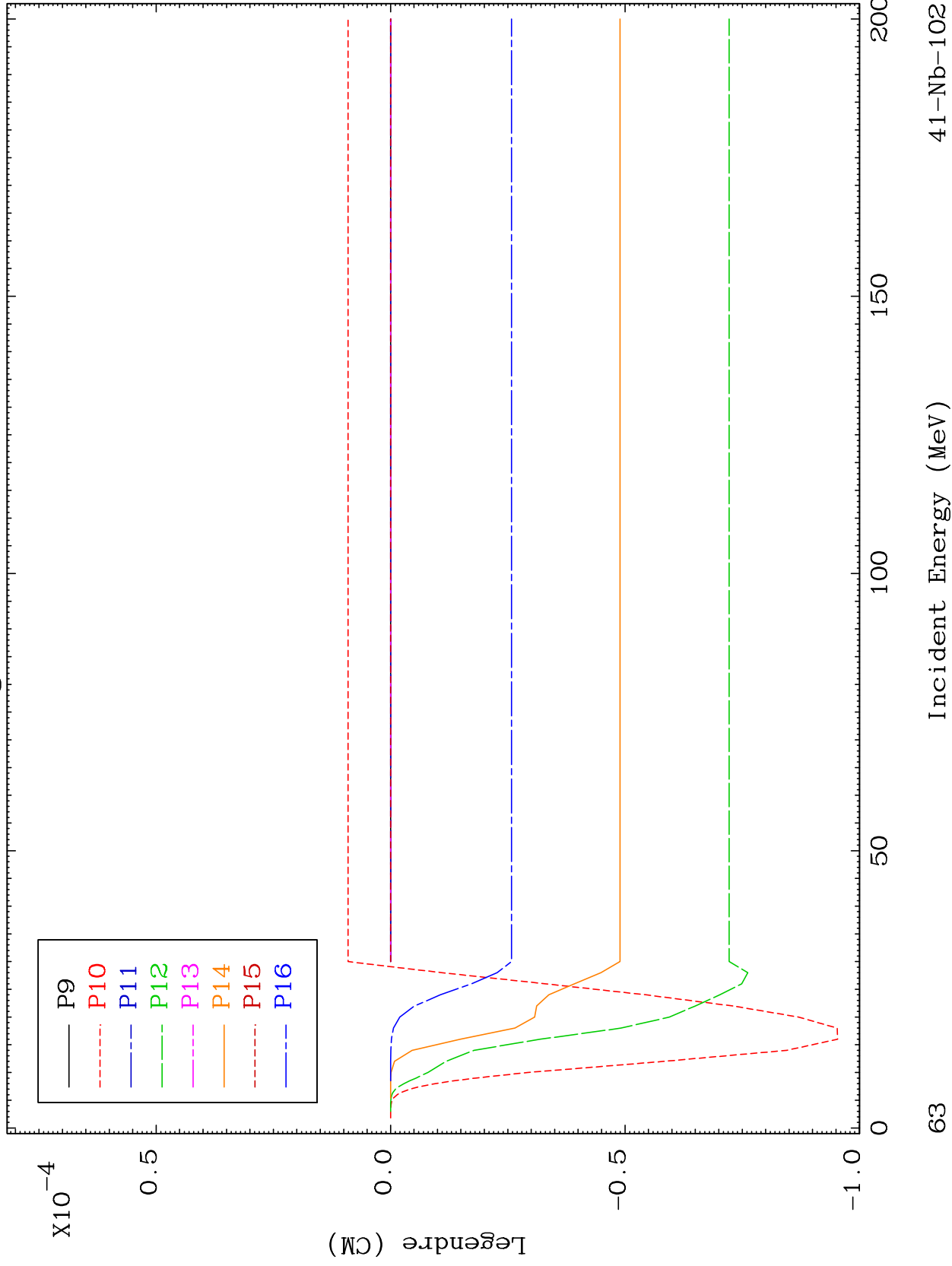




MAT 4152

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

41-Nb-102



63

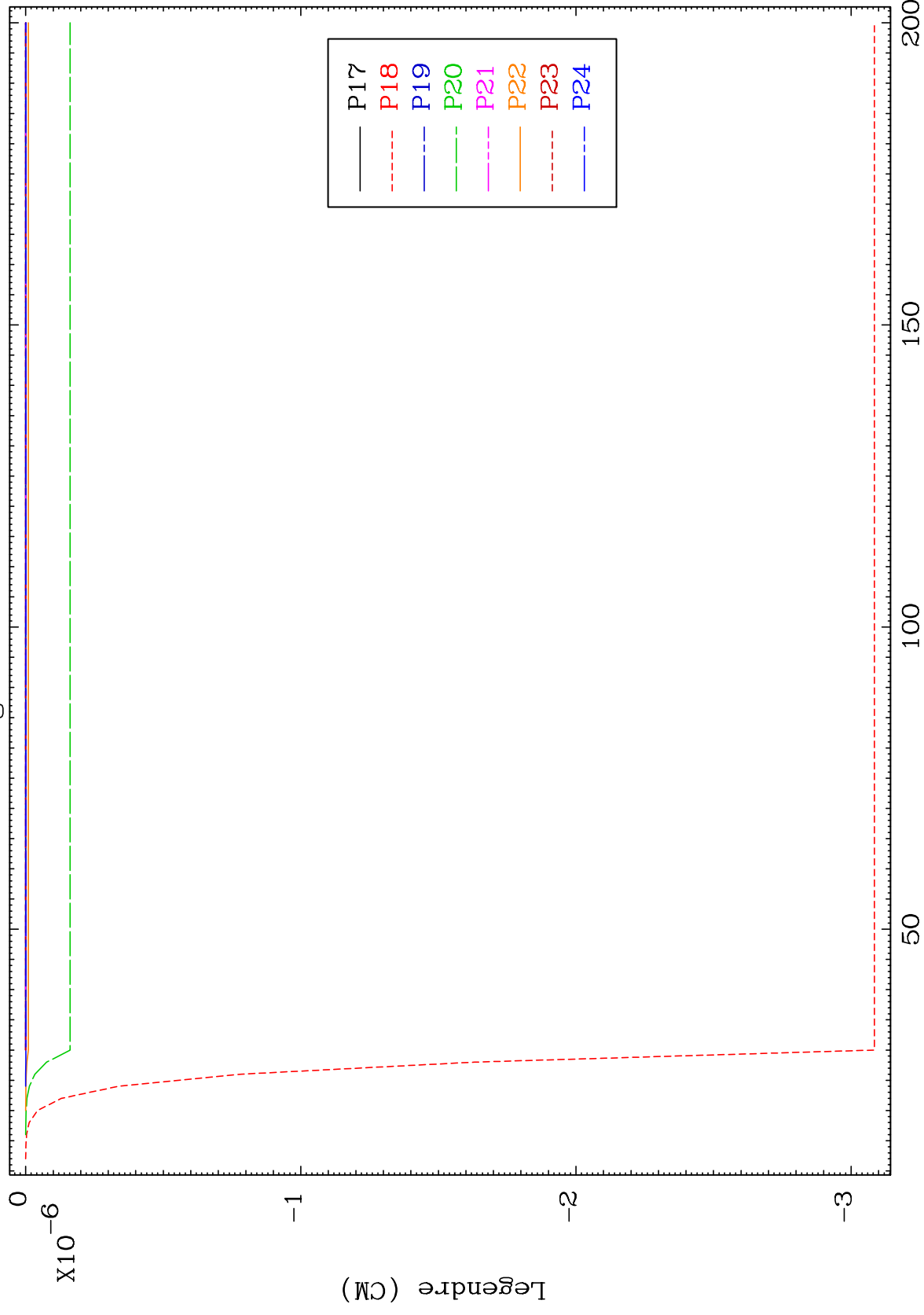
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



64

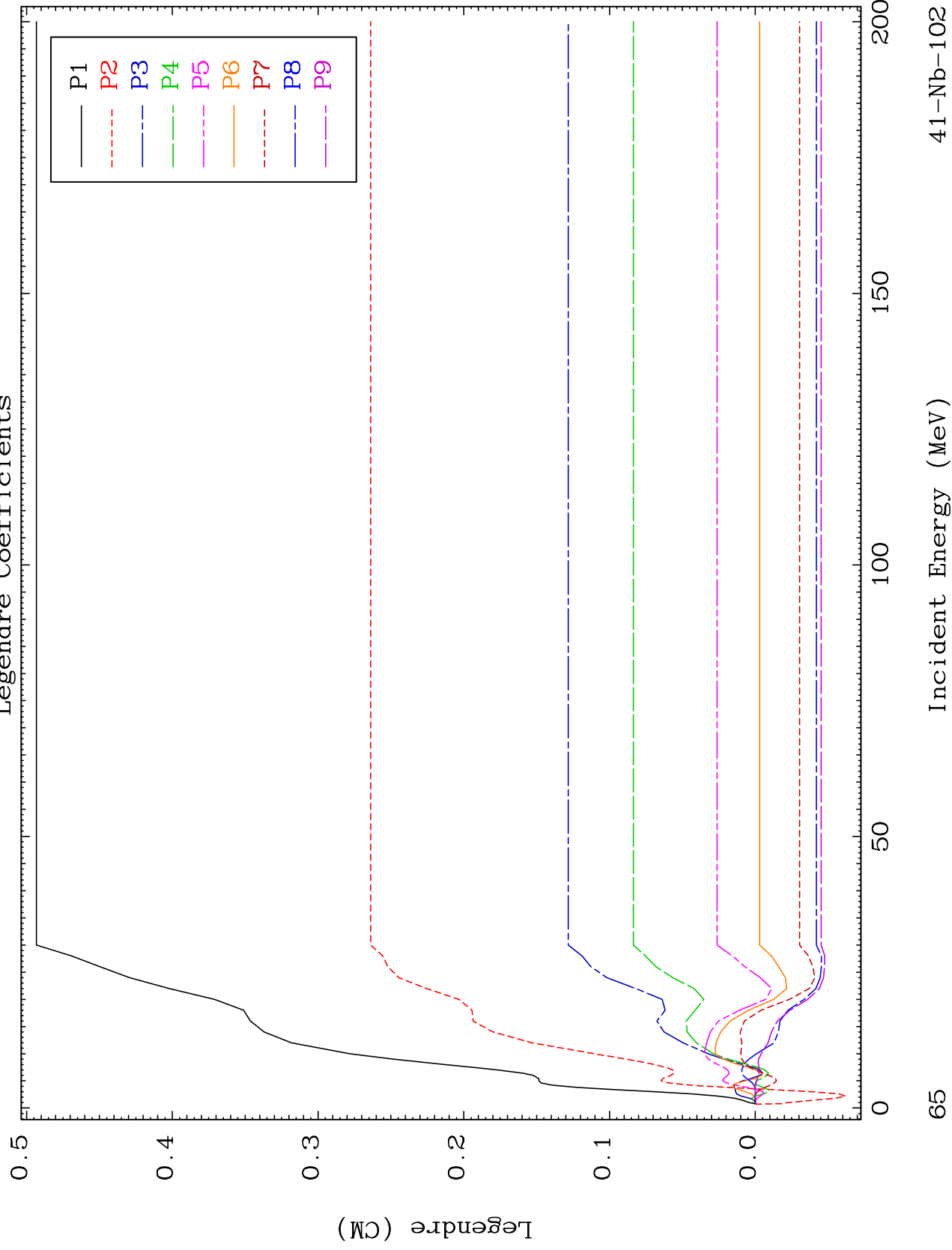
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



41-Nb-102

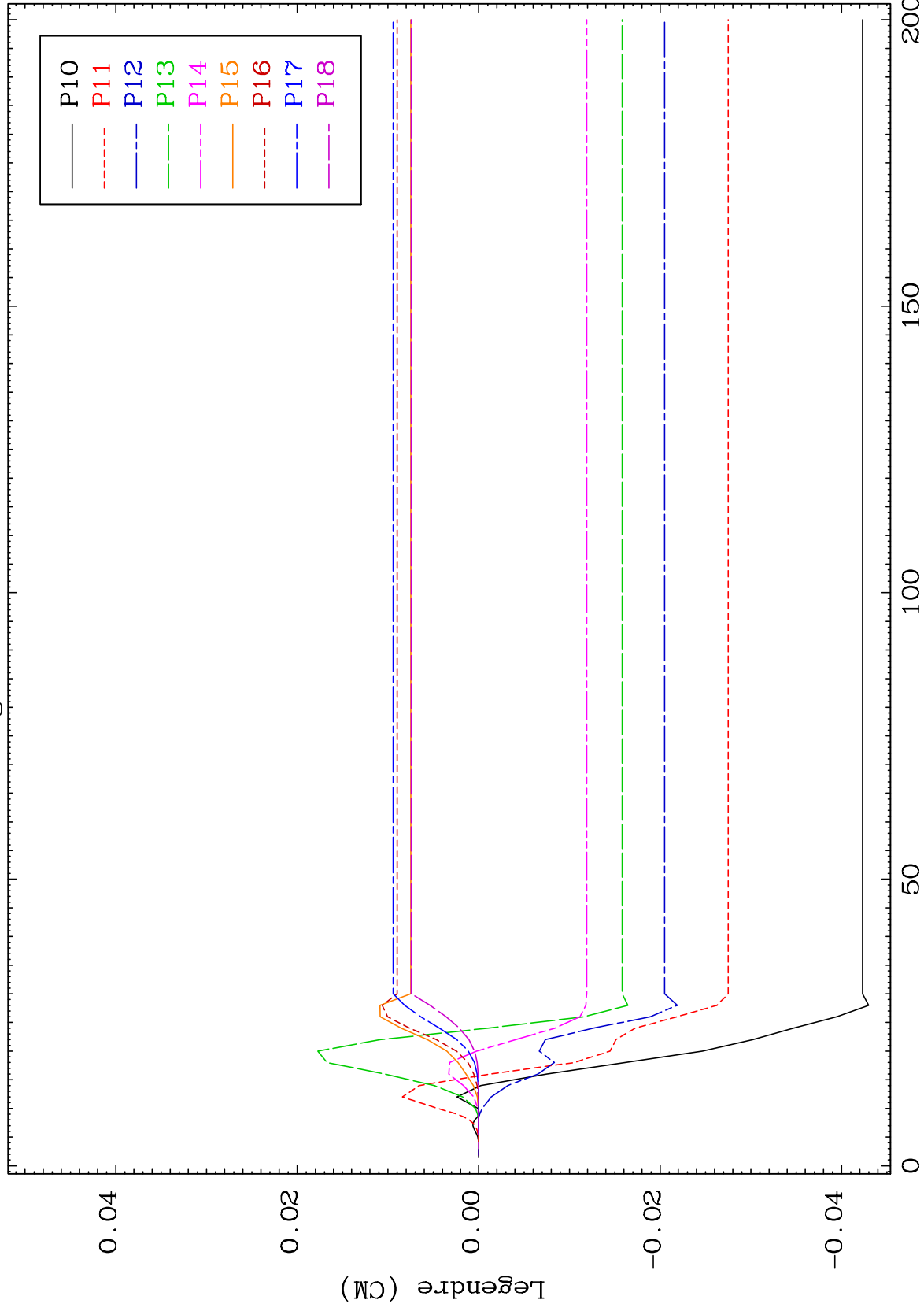
Incident Energy (MeV)

65

MAT 4152

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

41-Nb-102



66

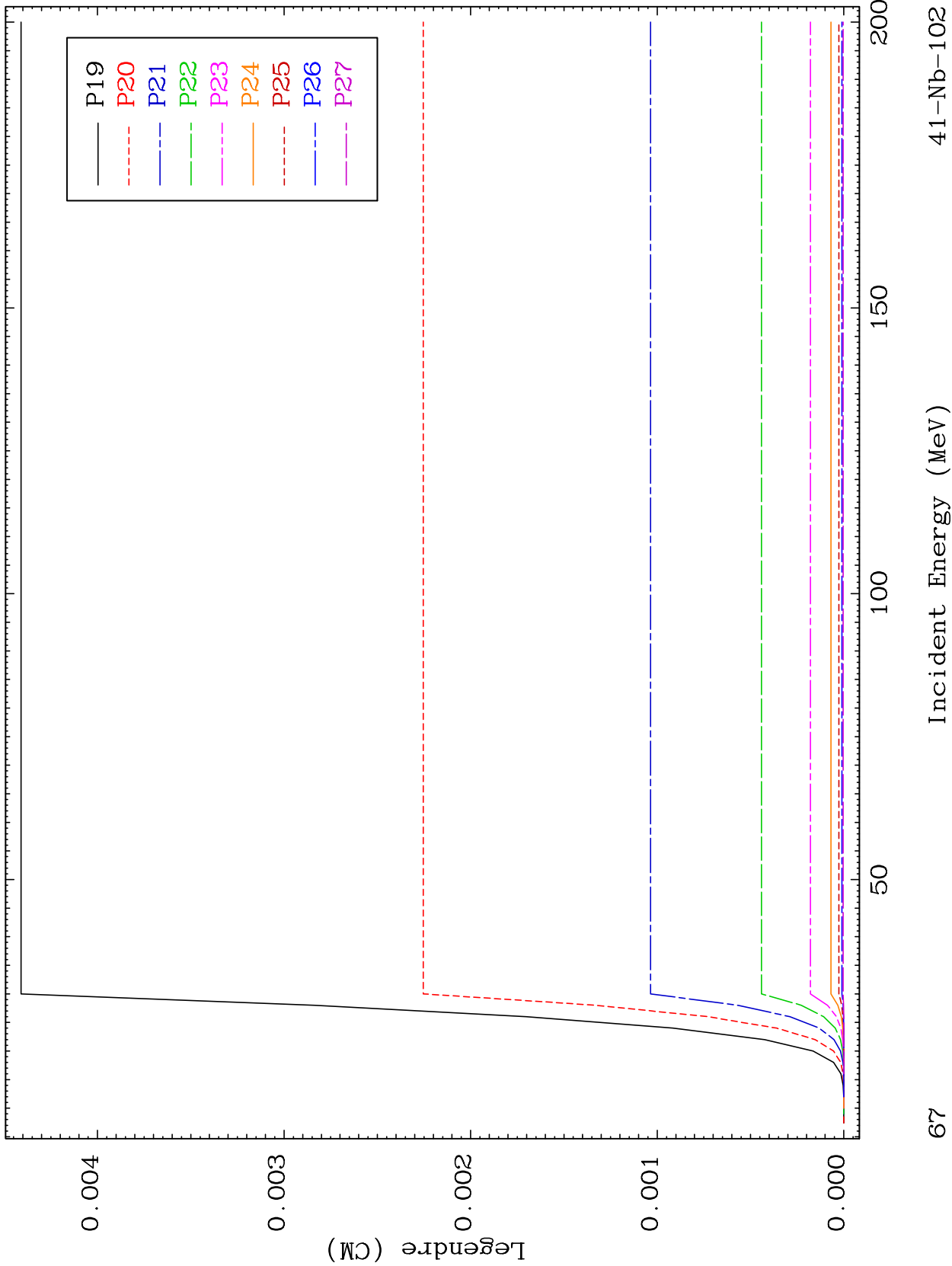
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



67

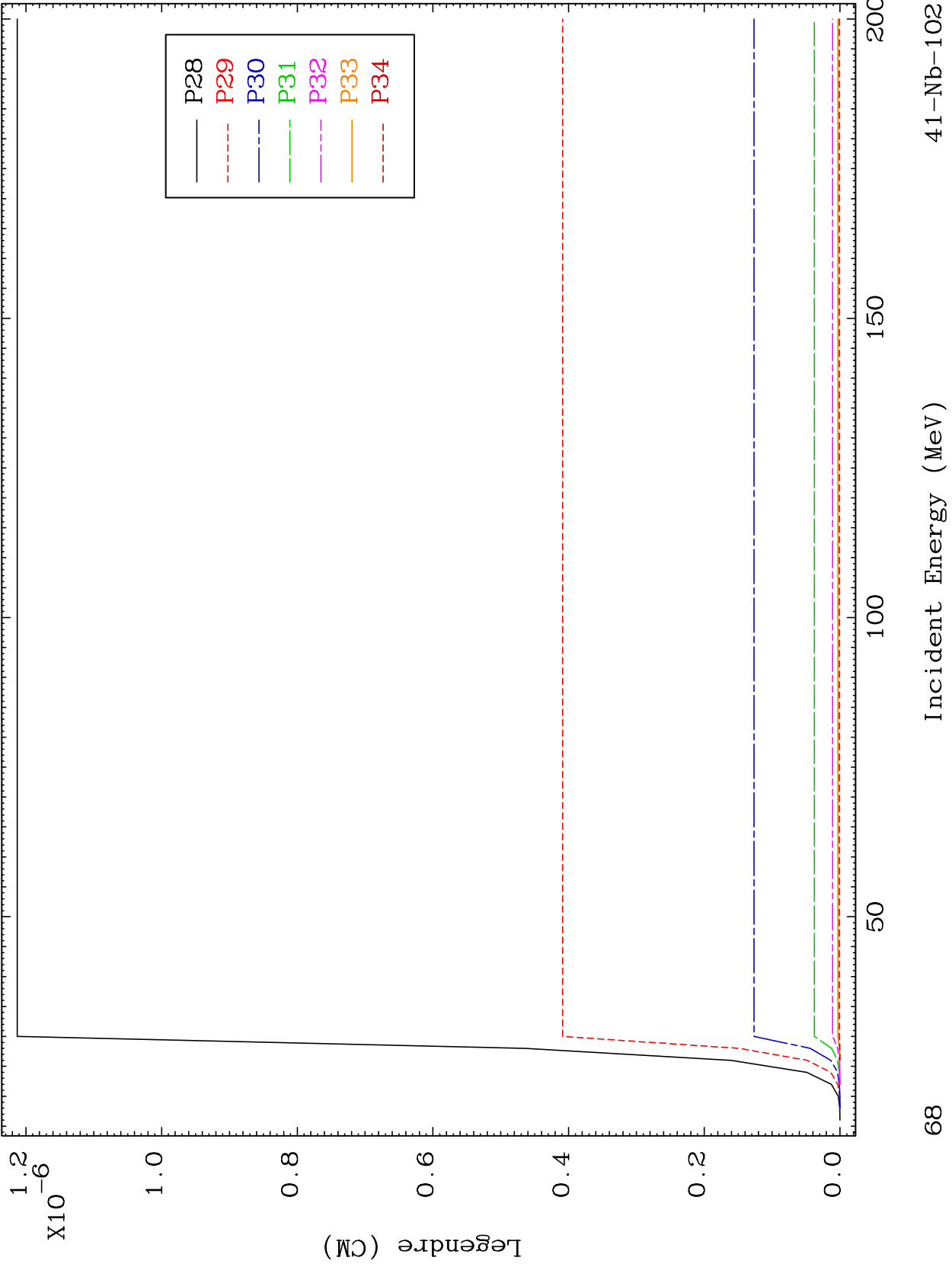
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102

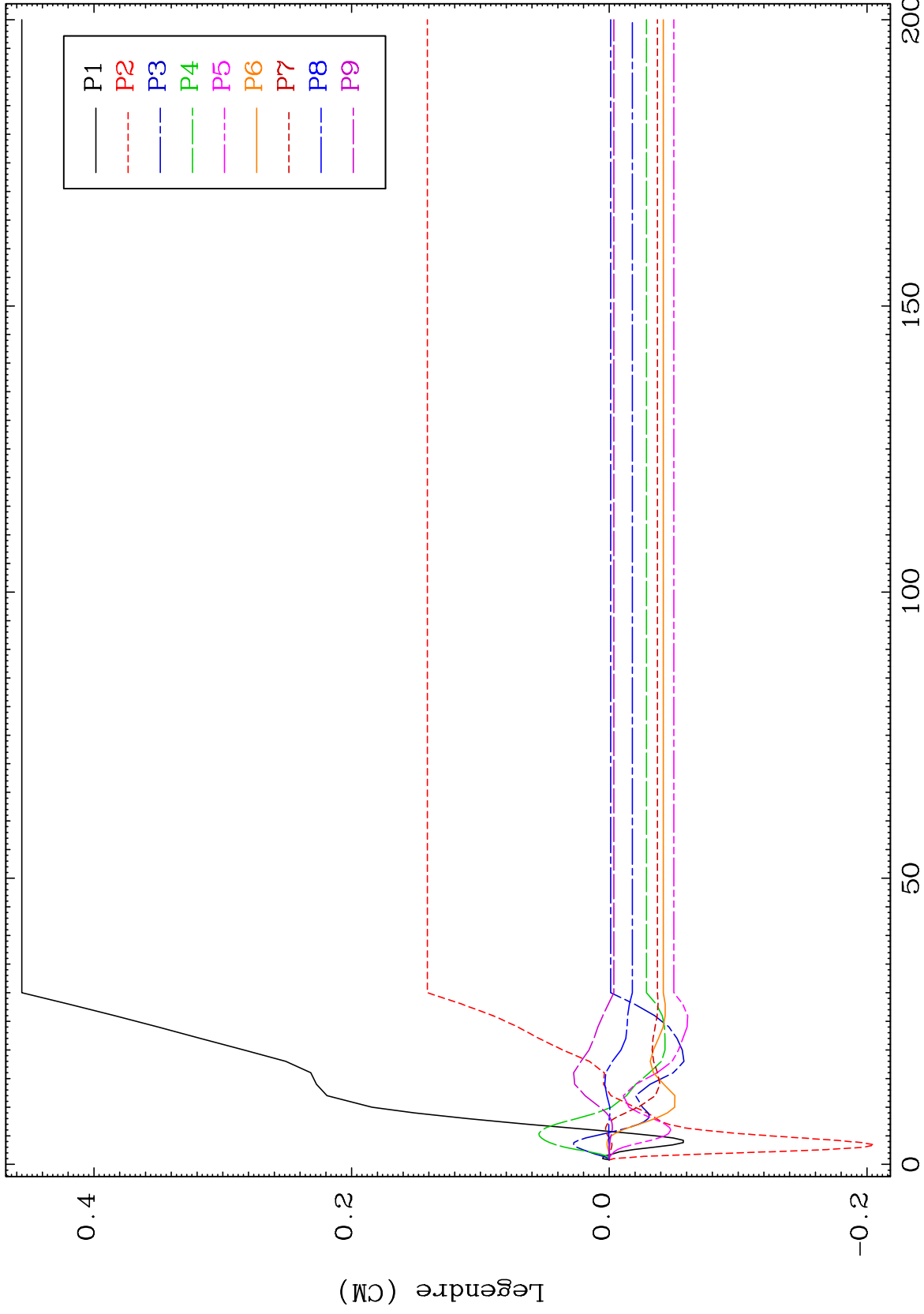


68

MAT 4152

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

41-Nb-102



69

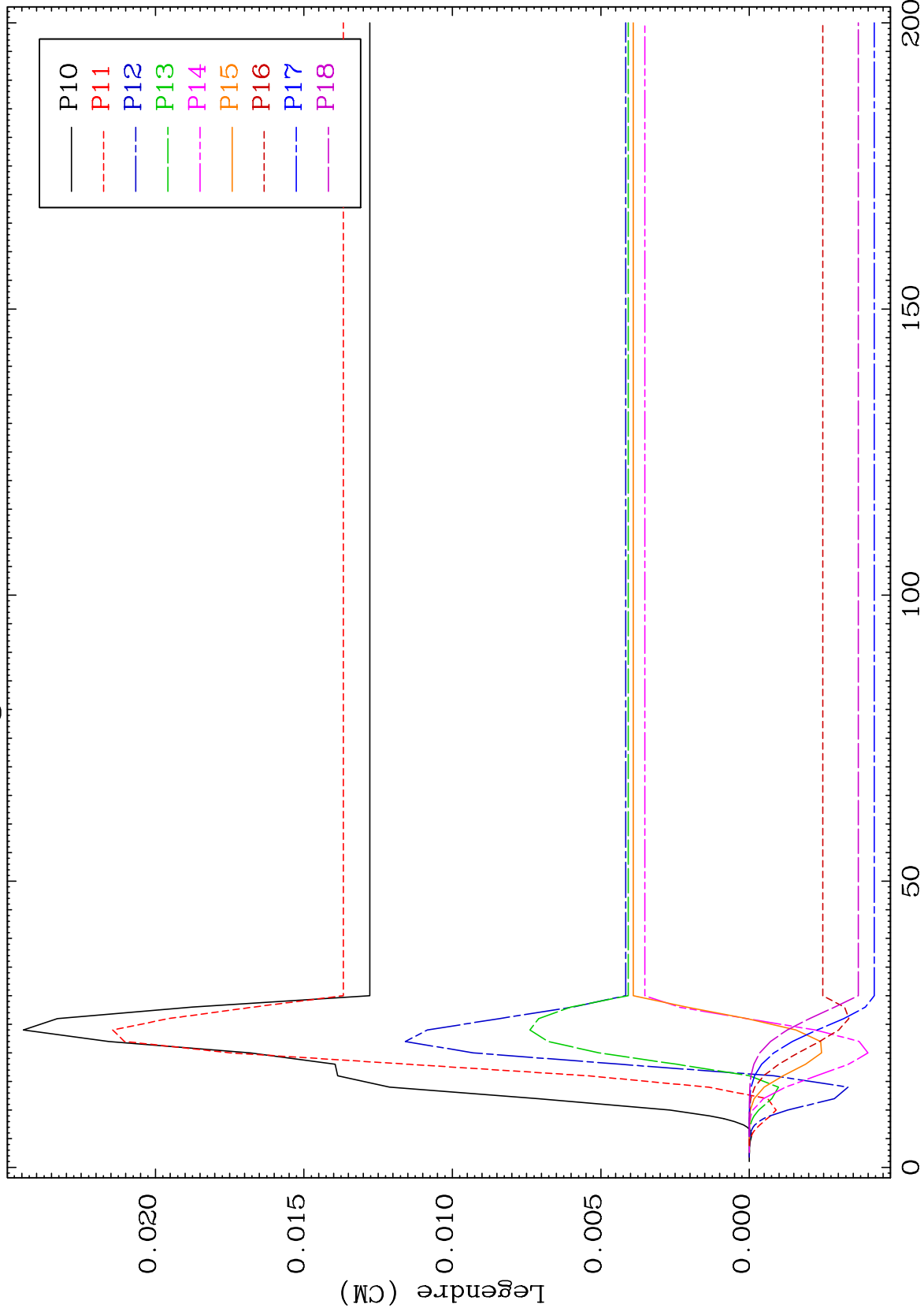
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



70

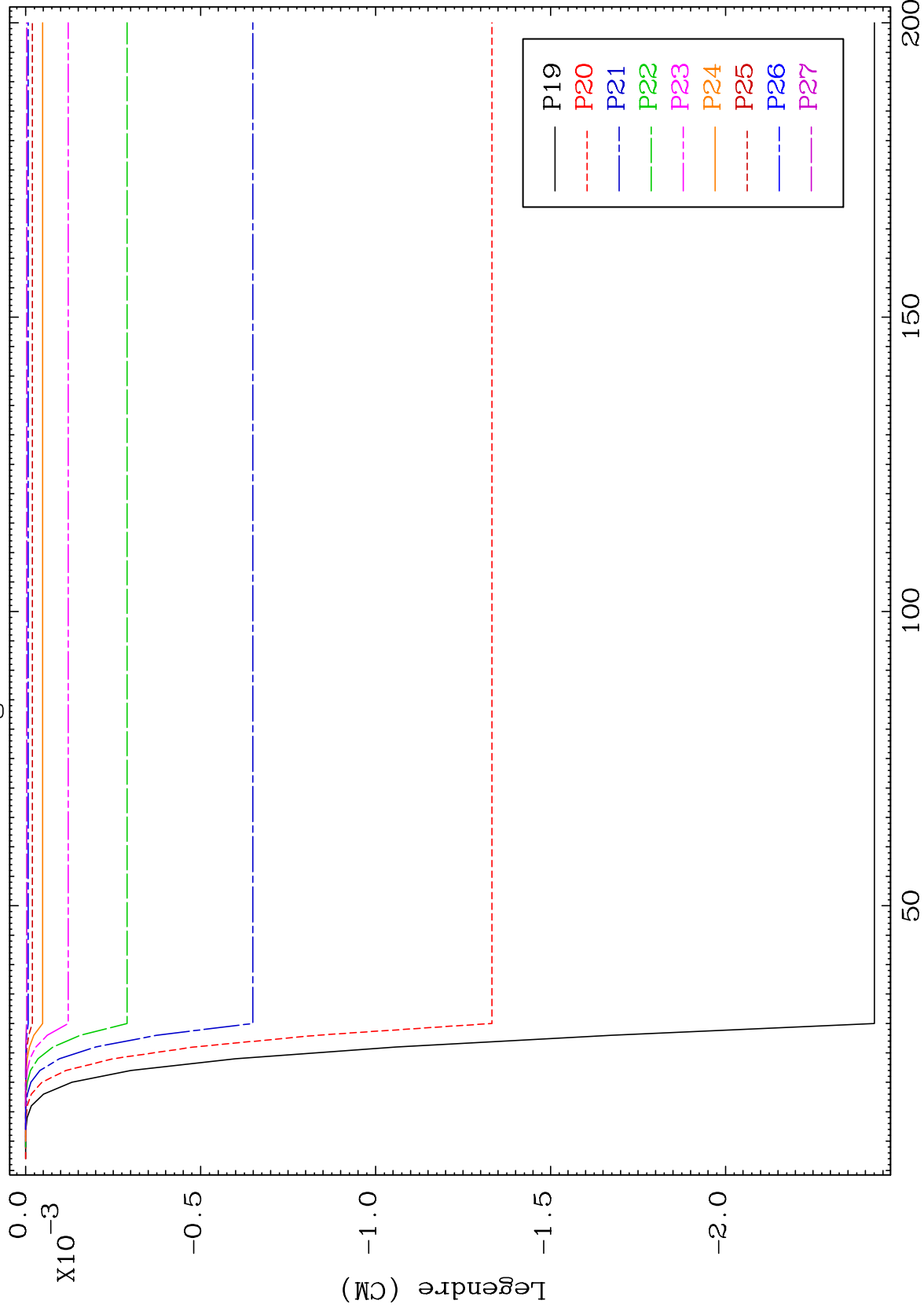
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



71

Incident Energy (MeV)

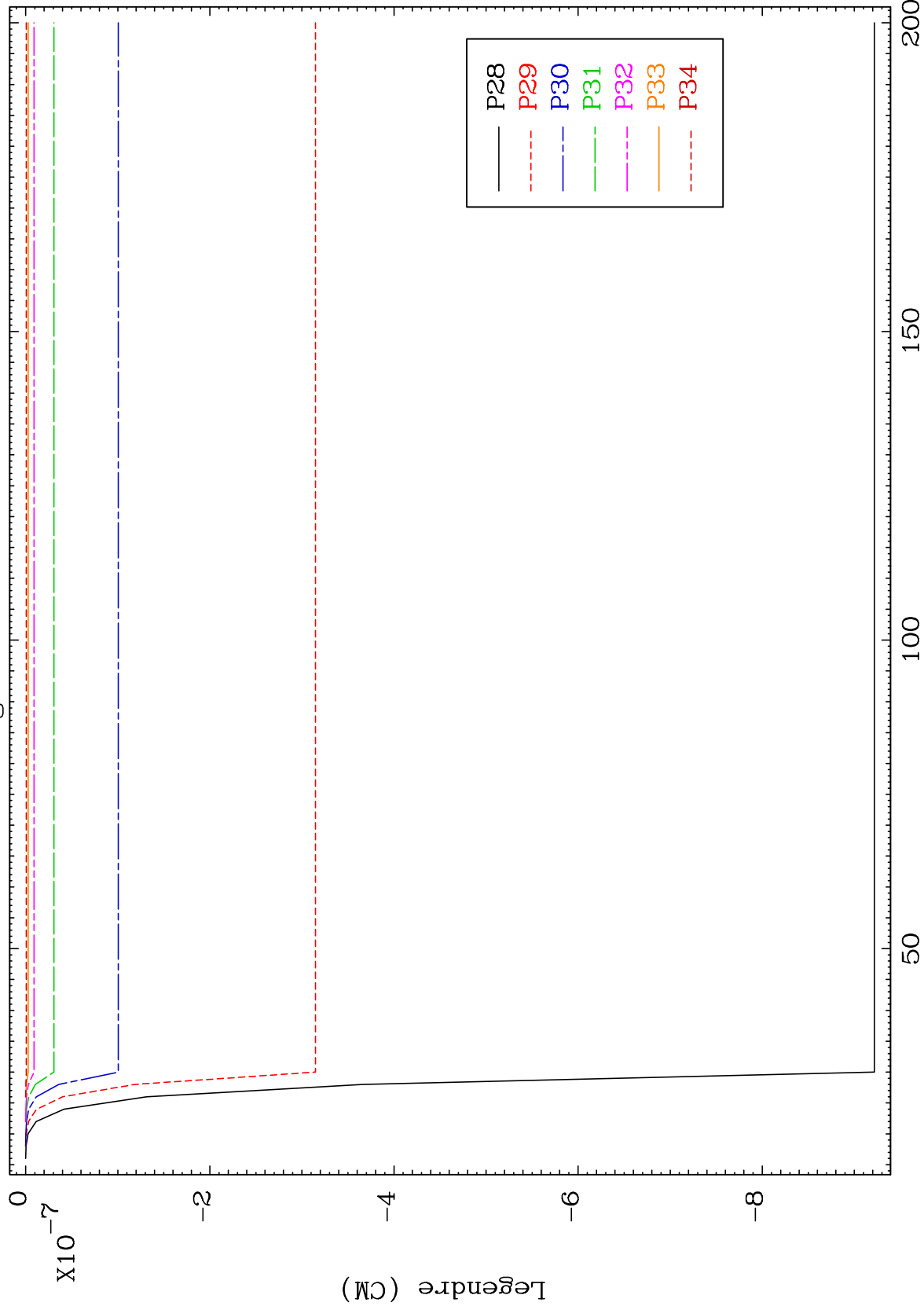
41-Nb-102

MAT 4152

MT= 65 (n,n') Level

41-Nb-102

Legendre Coefficients



72

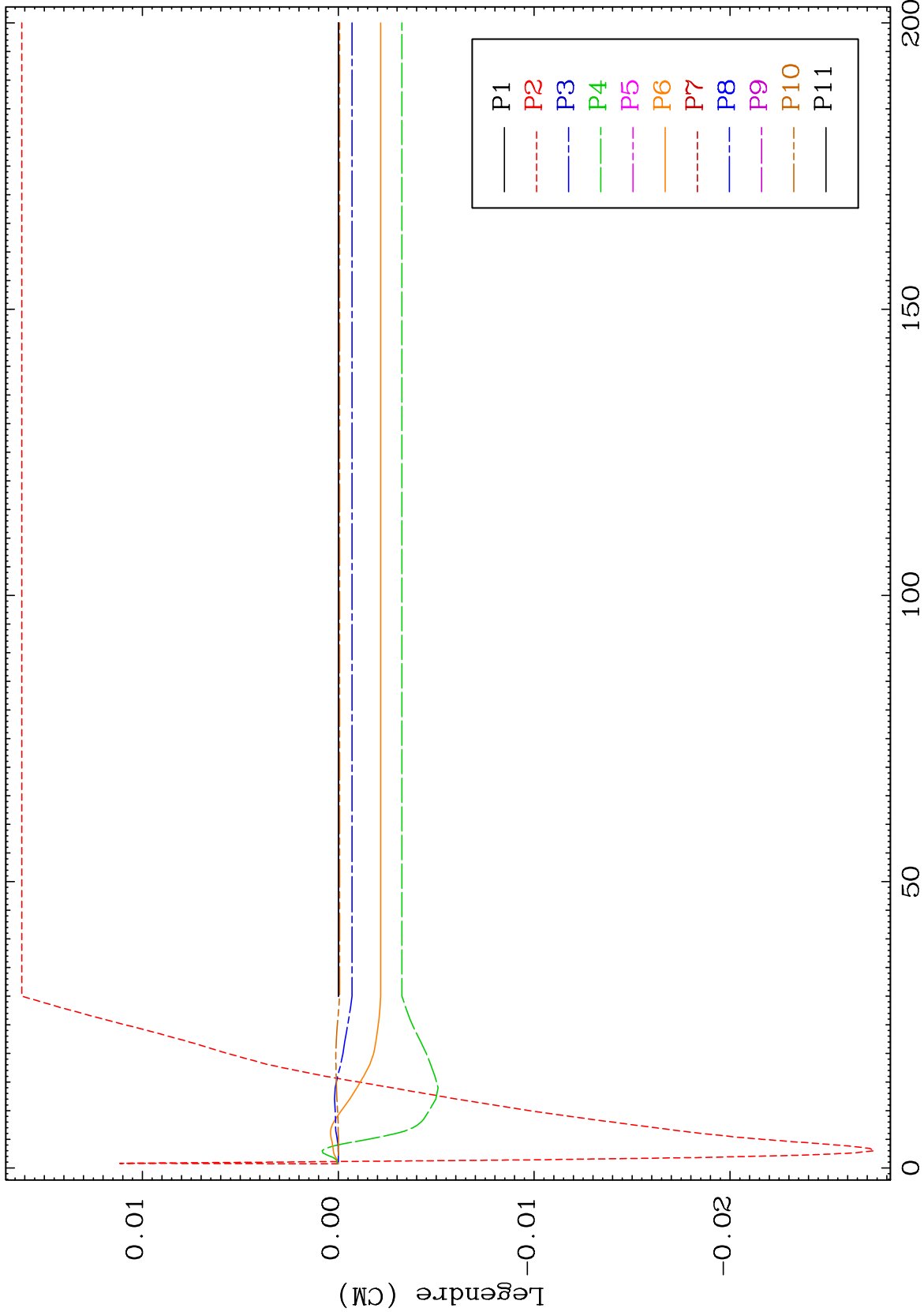
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

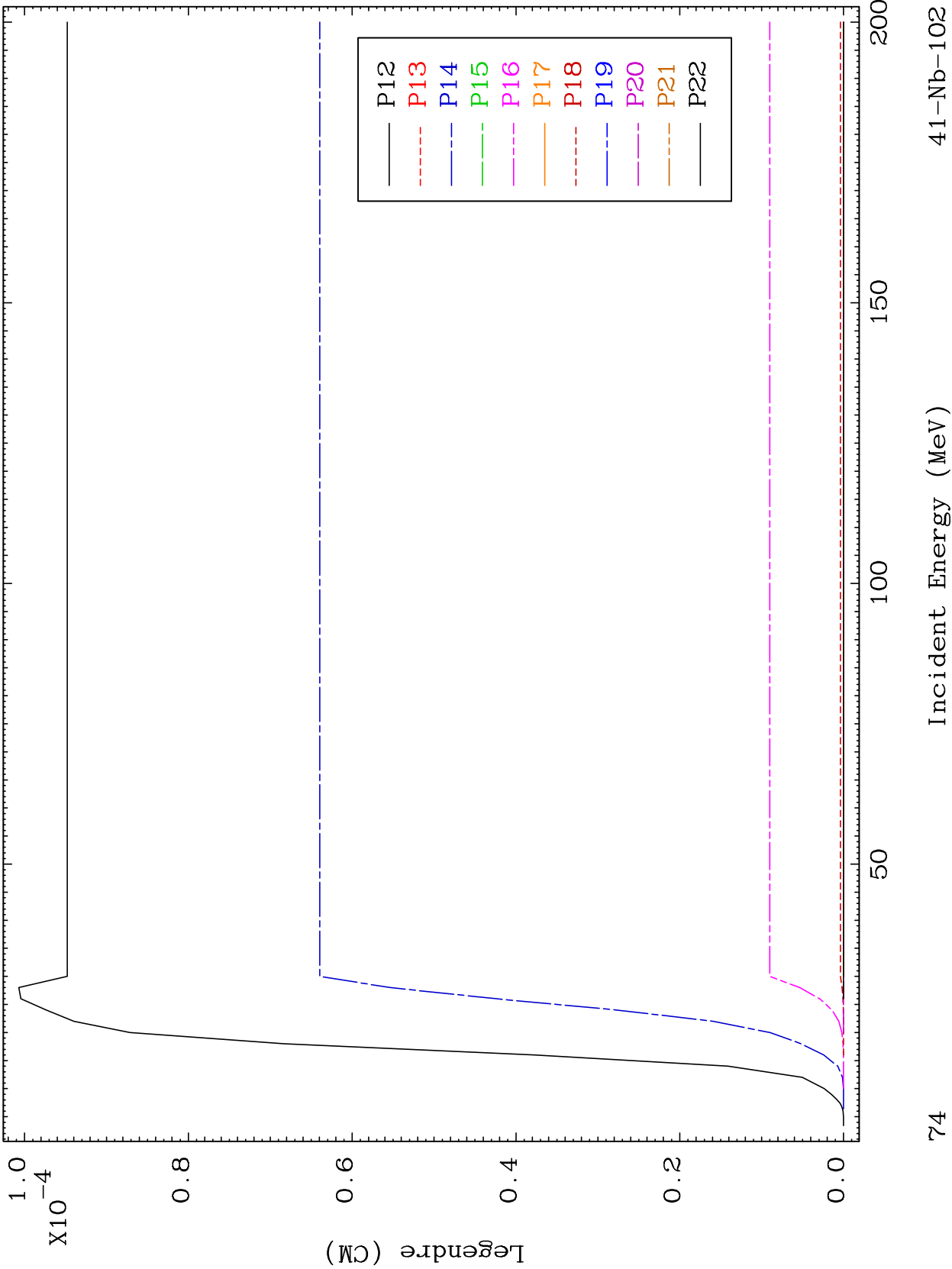
41-Nb-102



73

Incident Energy (MeV)

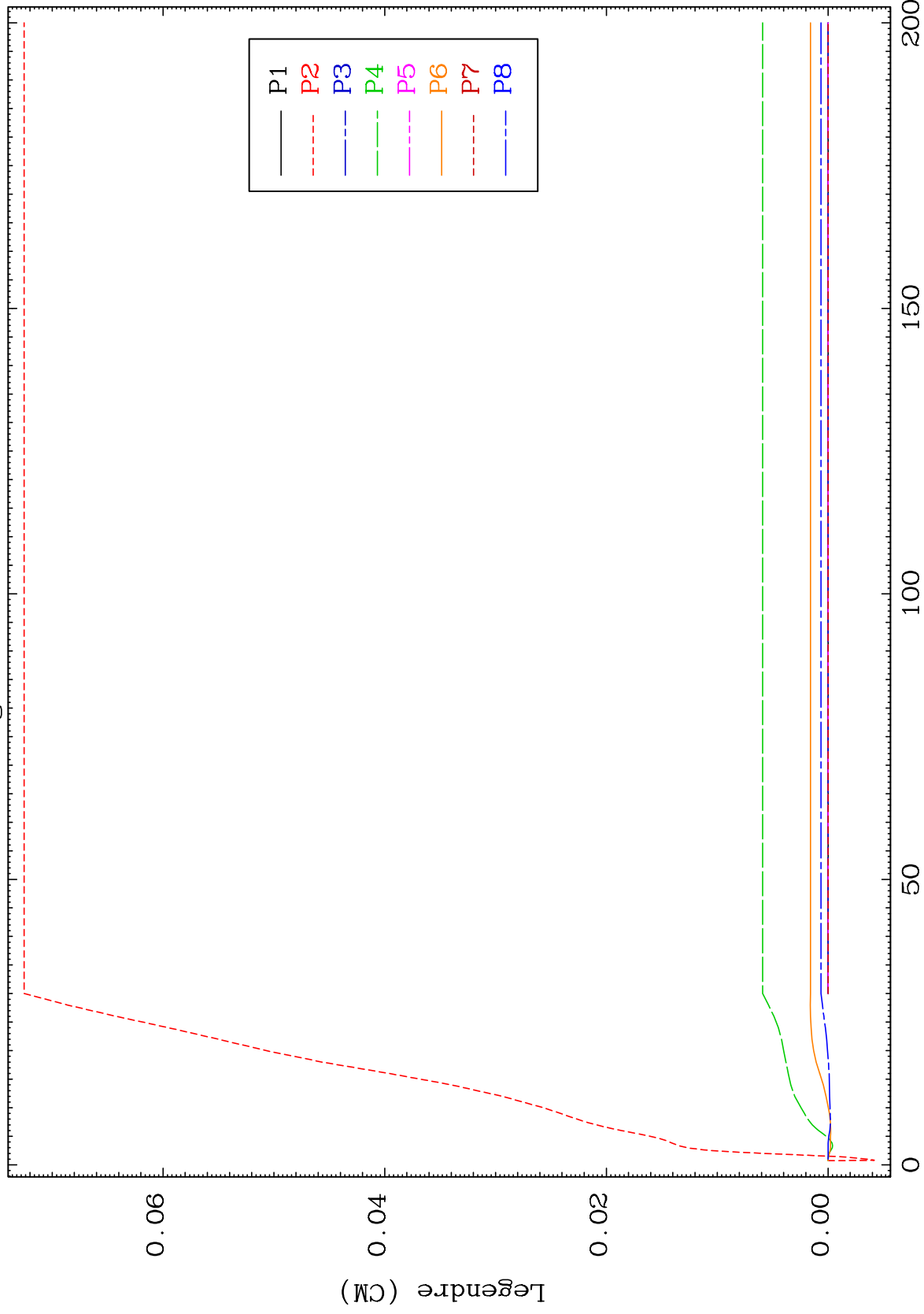
41-Nb-102



MAT 4152

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

41-Nb-102



75

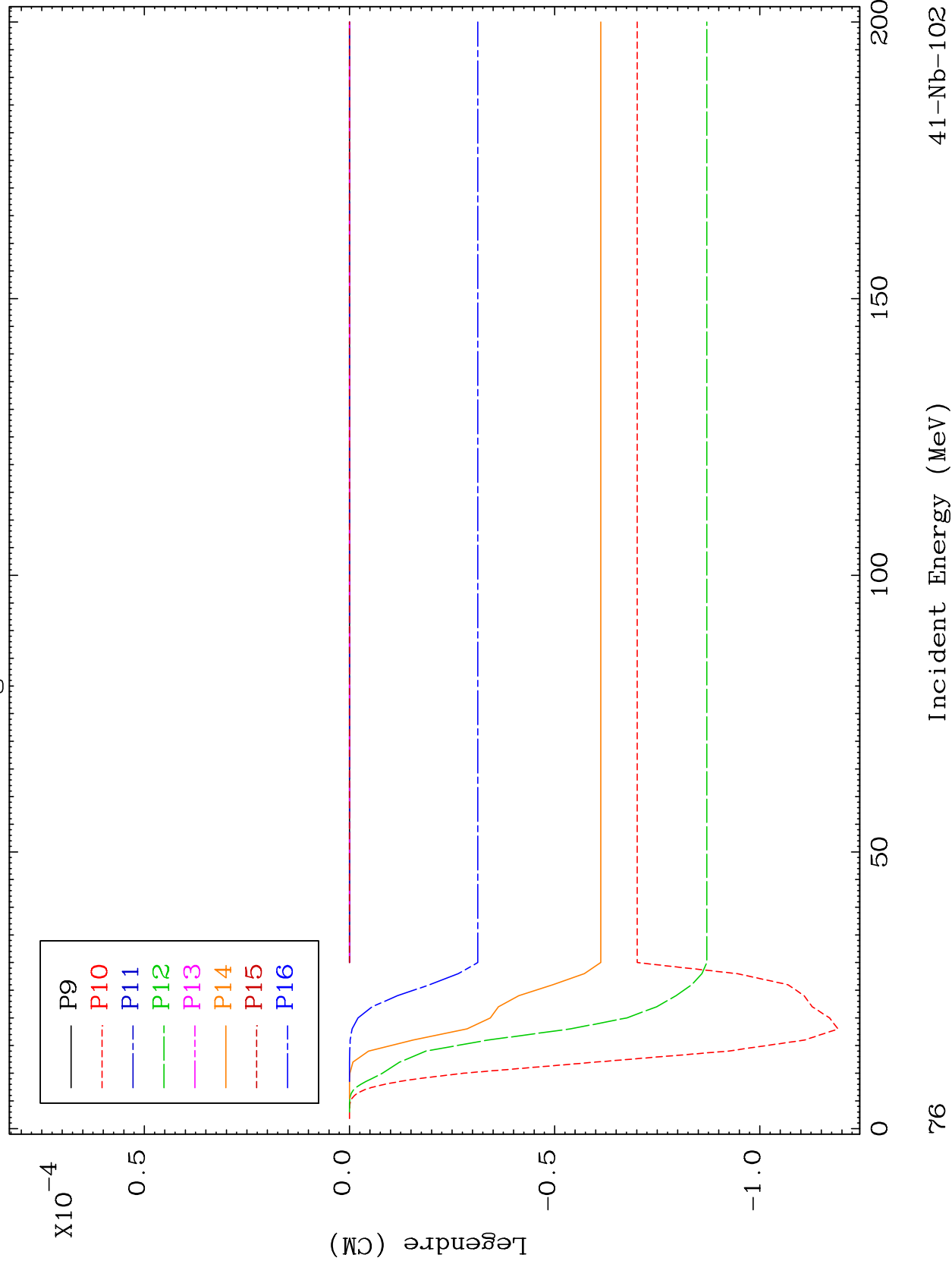
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

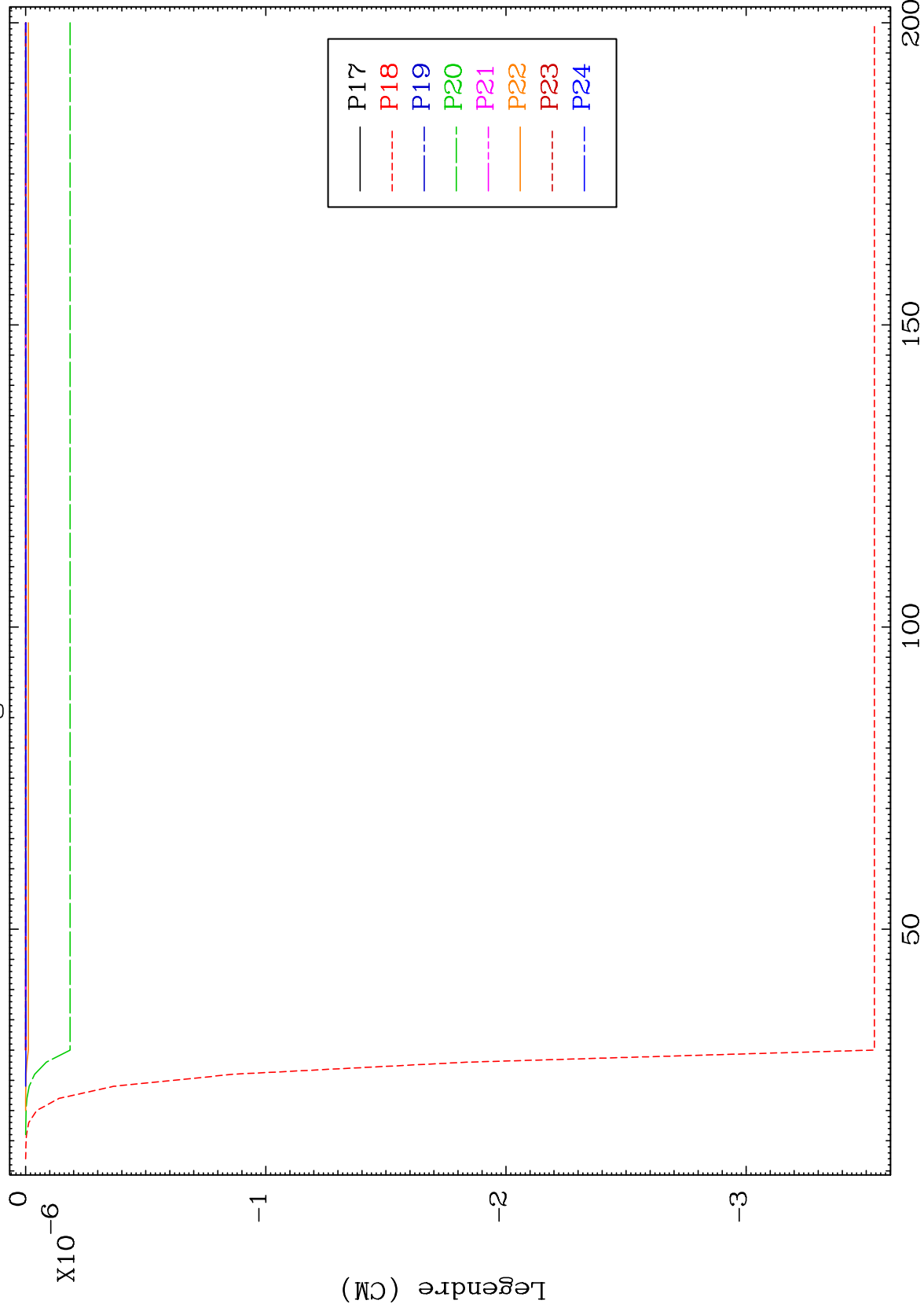
41-Nb-102



MAT 4152

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

41-Nb-102



77

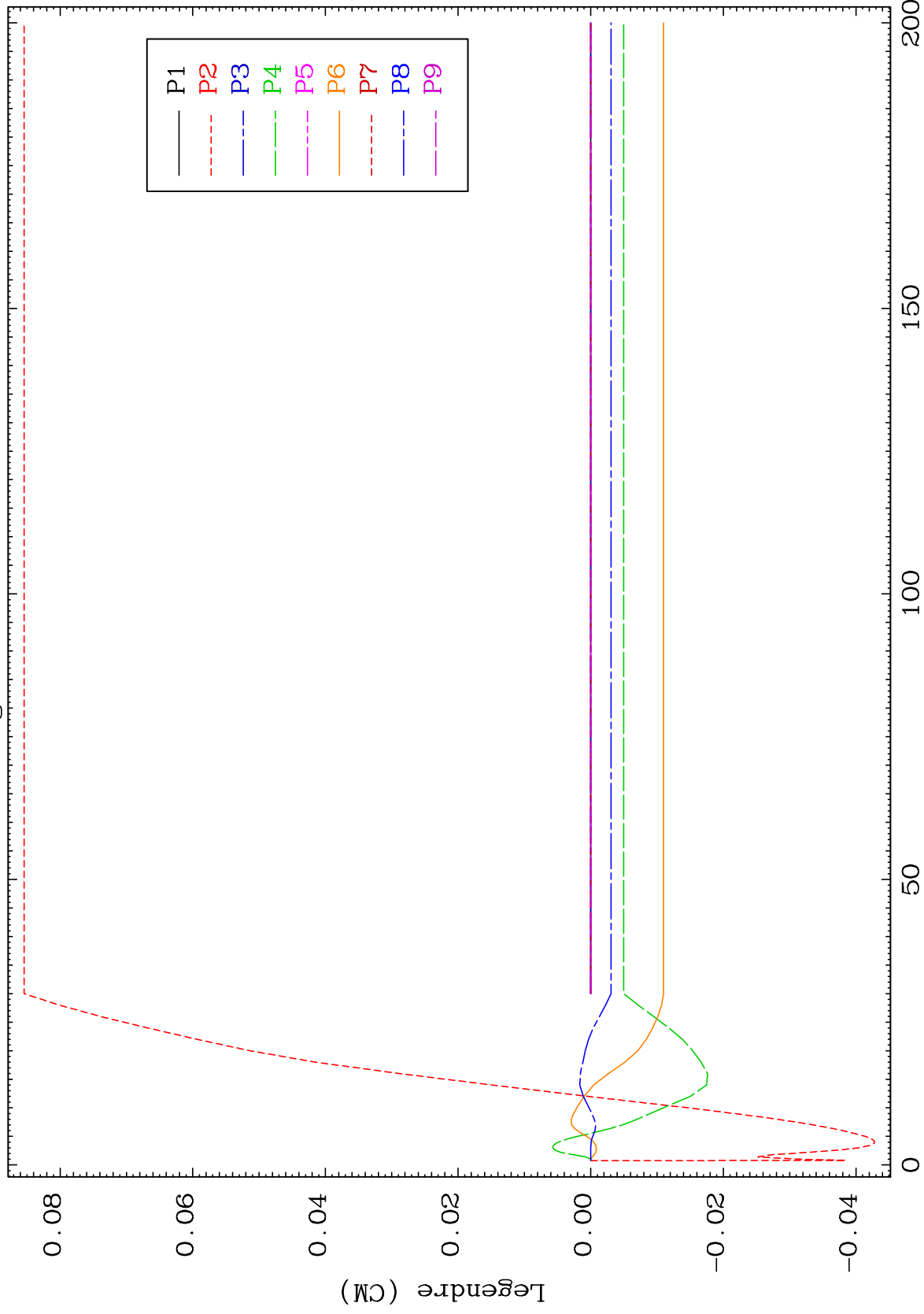
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



78

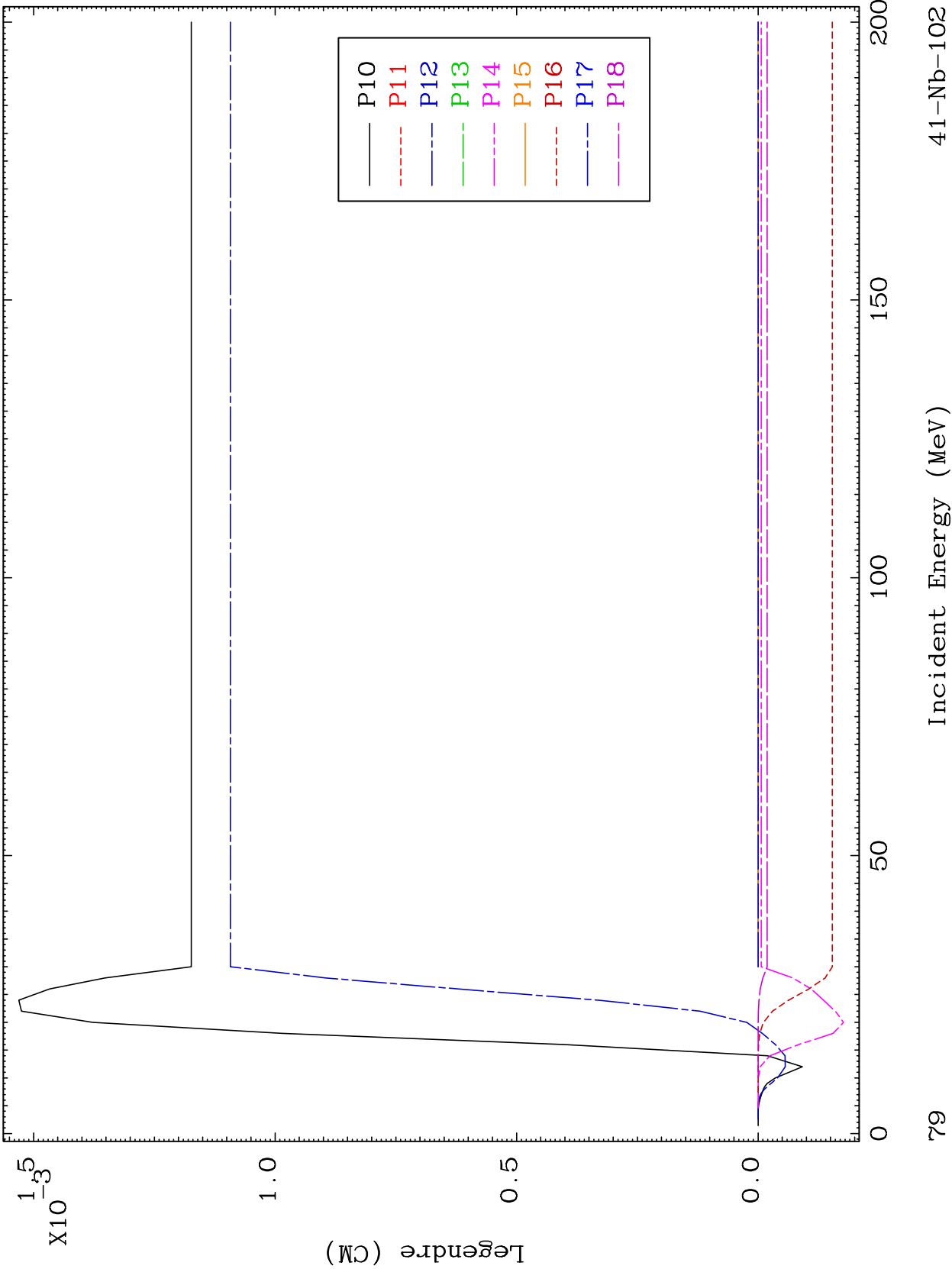
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

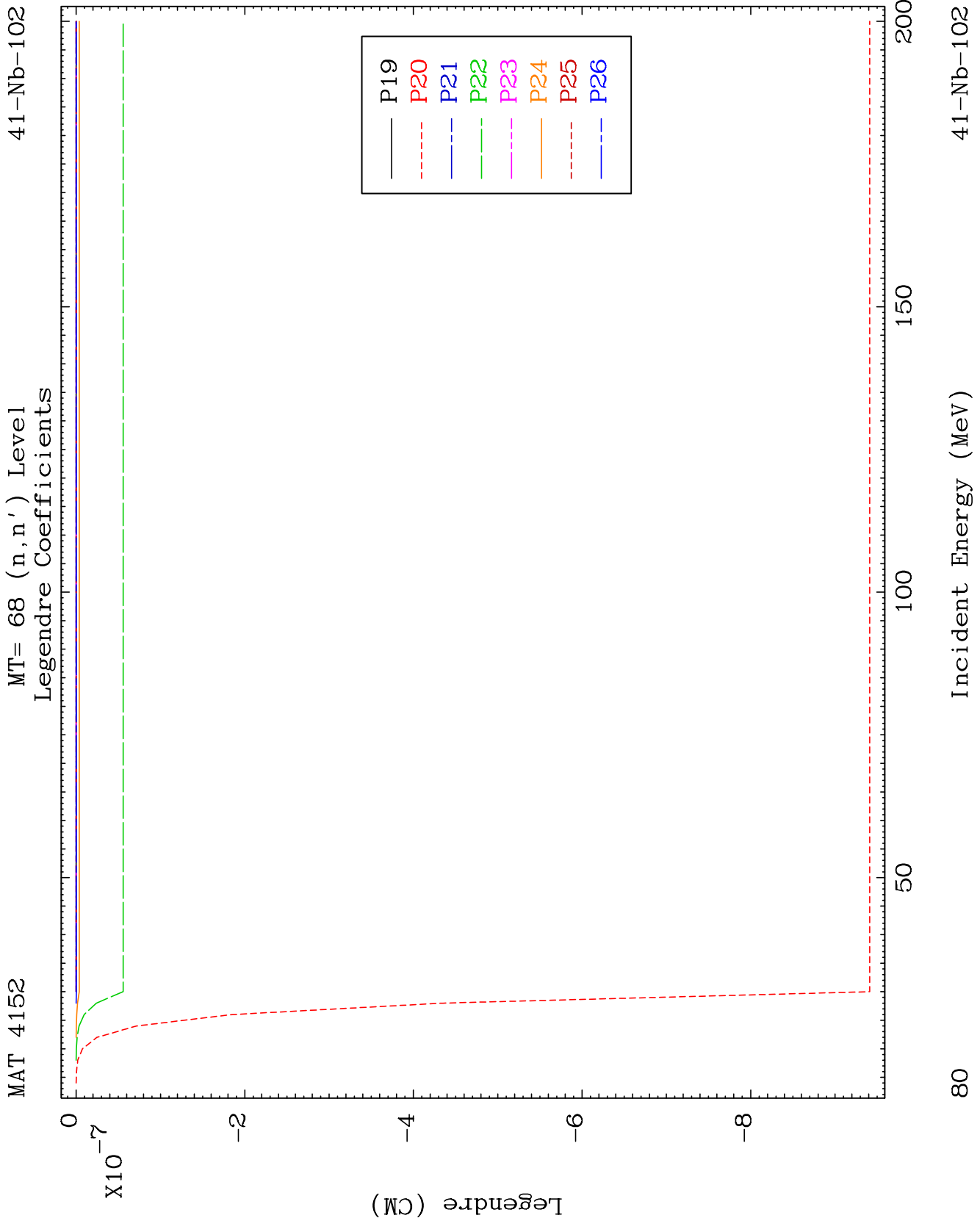
41-Nb-102



79

Incident Energy (MeV)

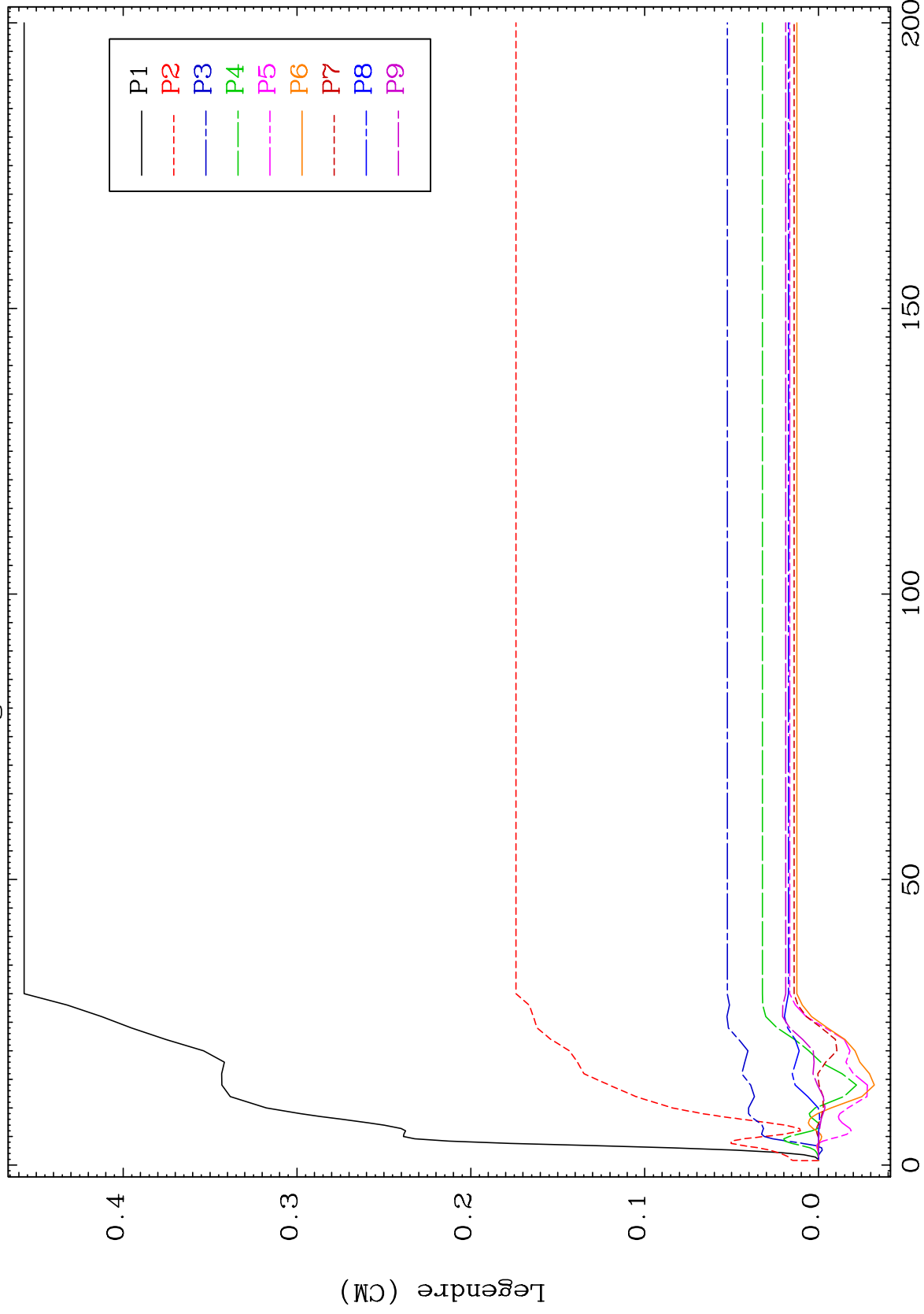
41-Nb-102



MAT 4152

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

41-Nb-102



81

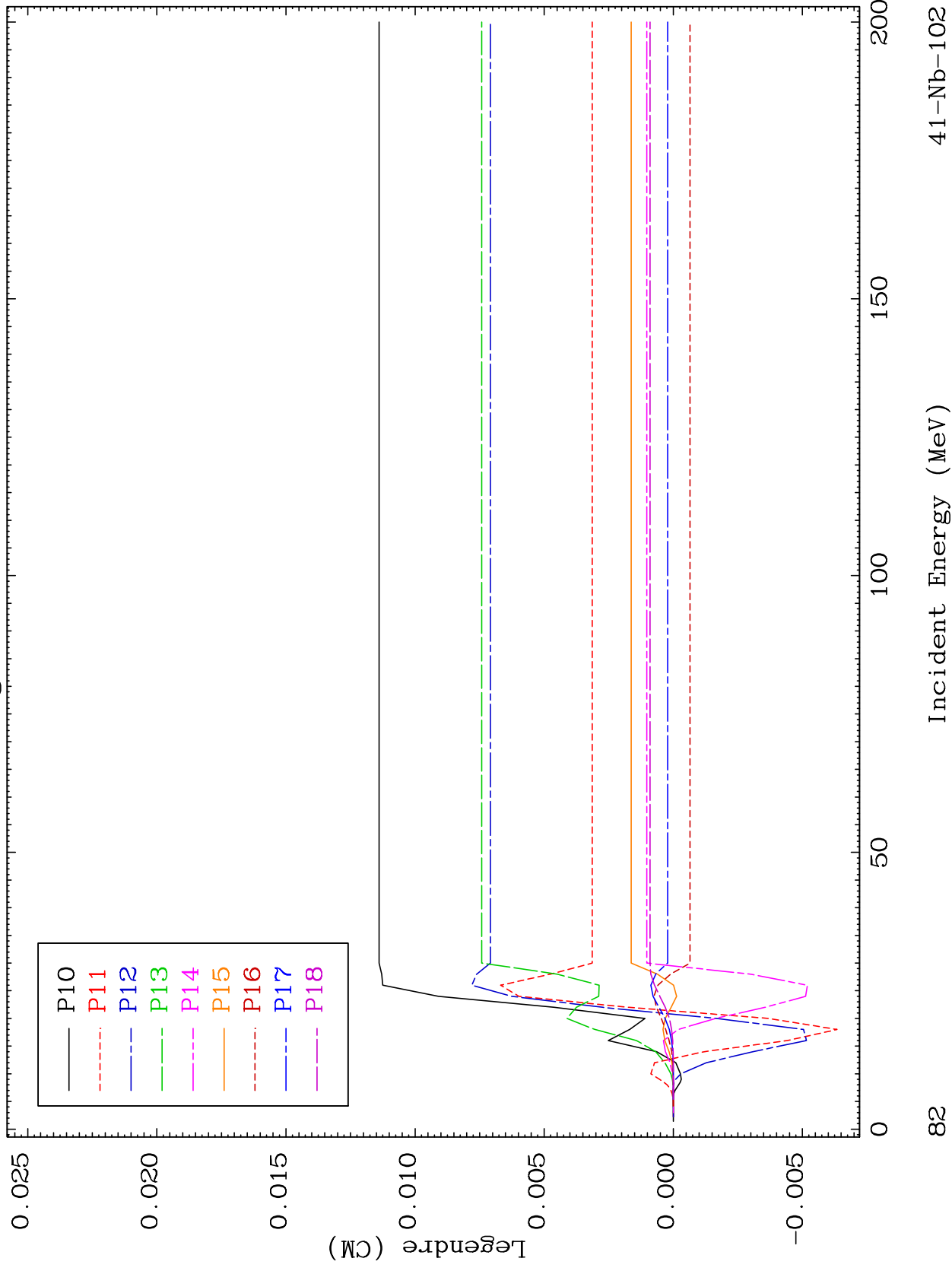
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

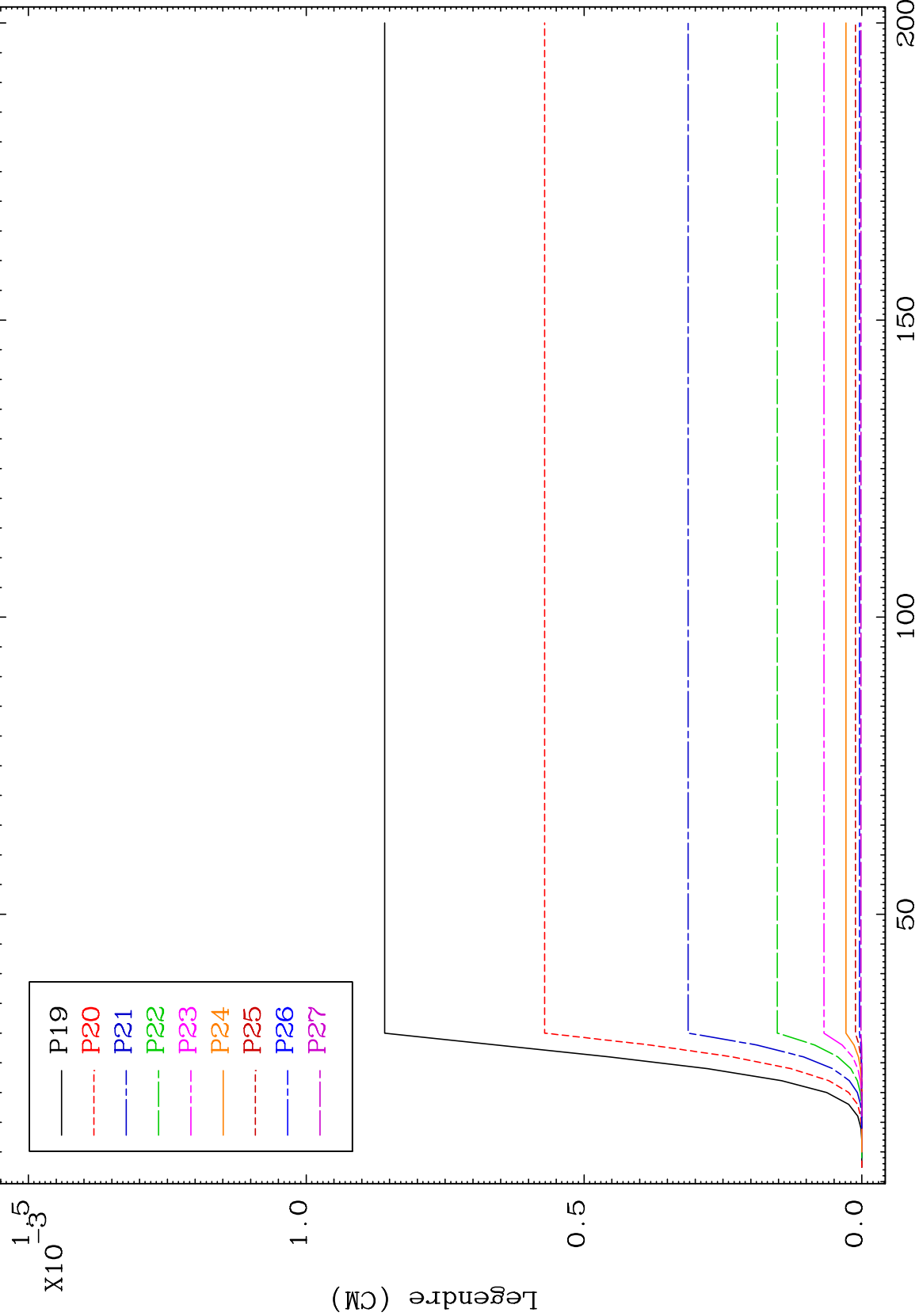
41-Nb-102



82

Incident Energy (MeV)

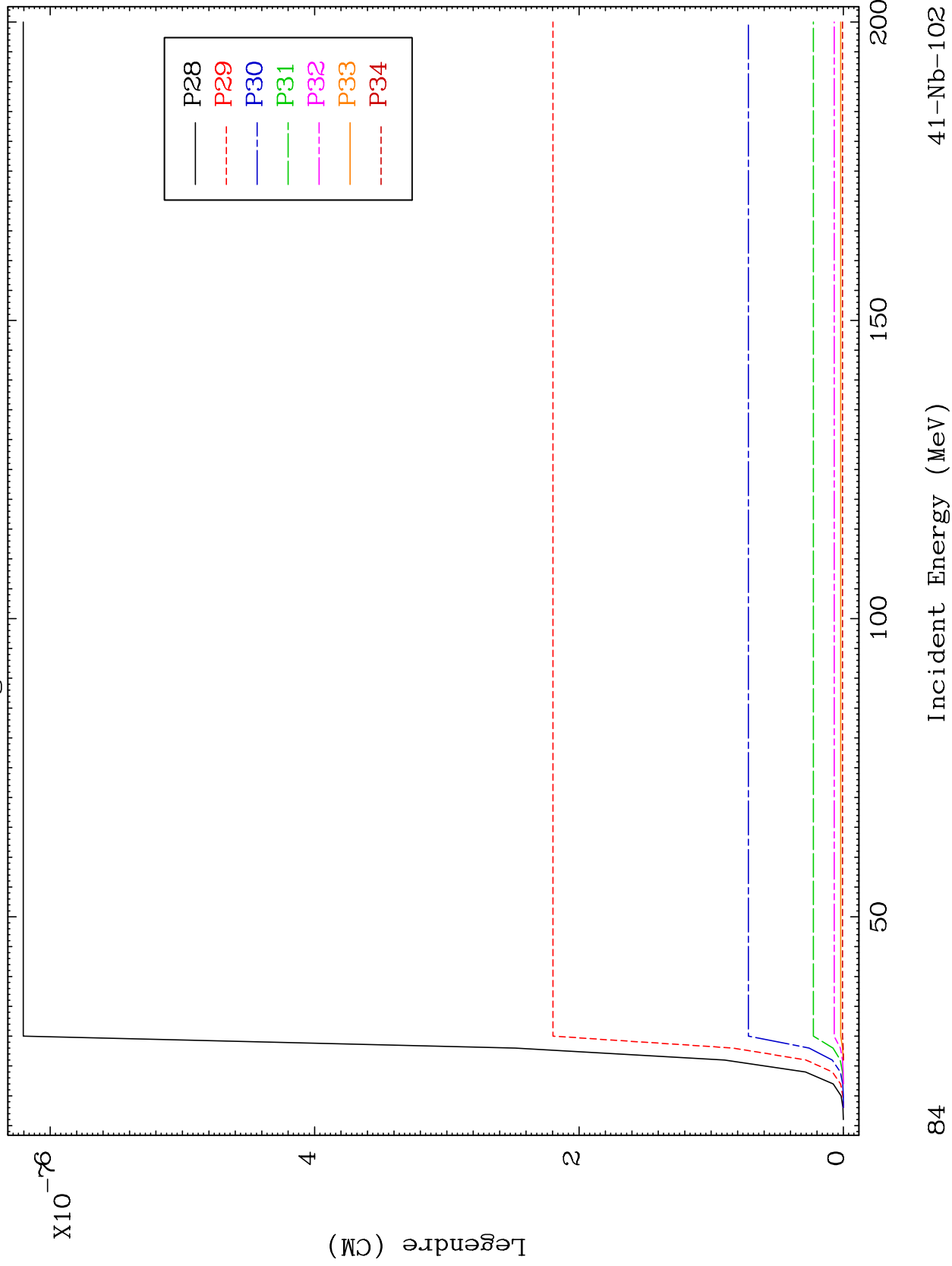
41-Nb-102



MAT 4152

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

41-Nb-102

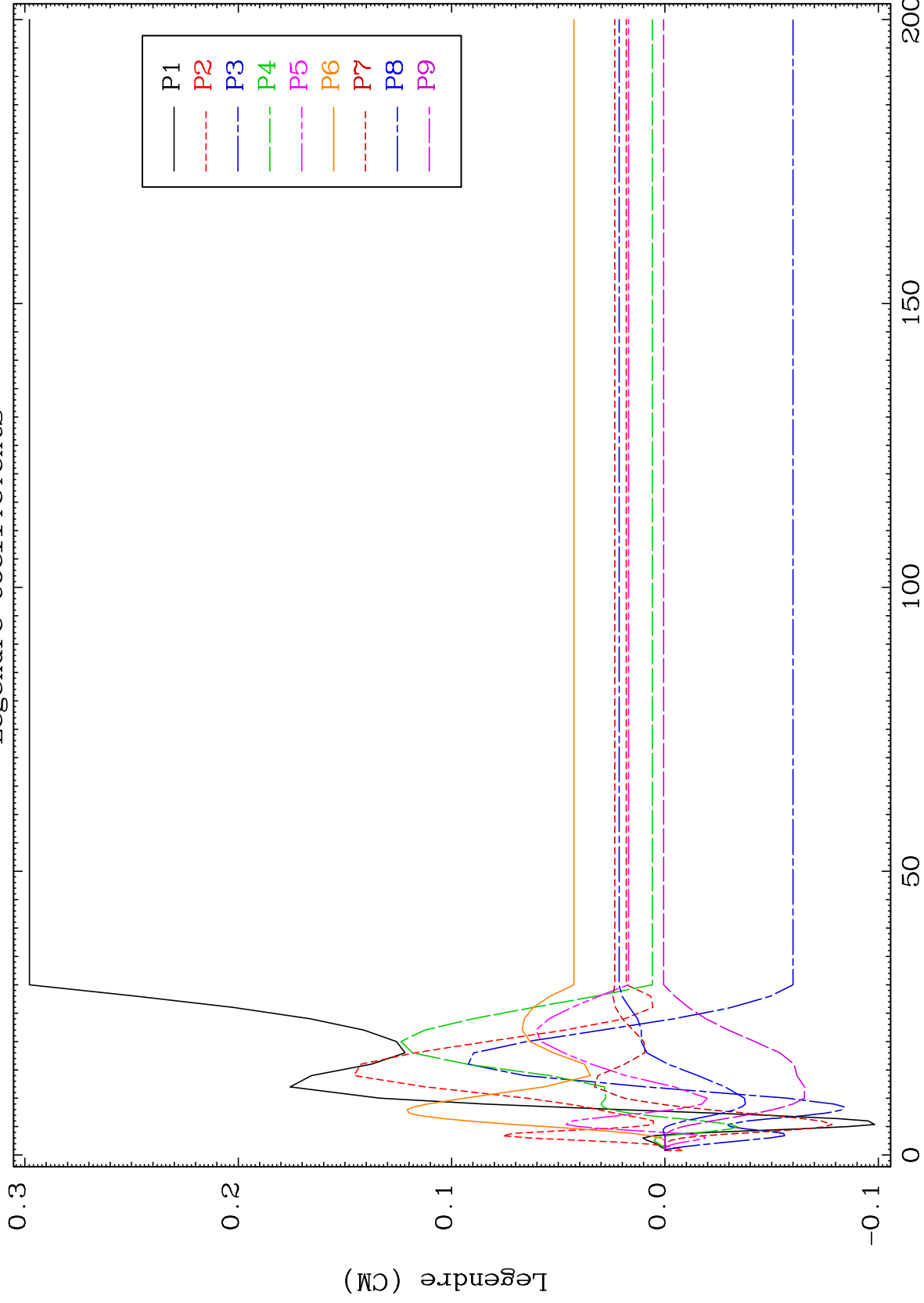


84

MAT 4152

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

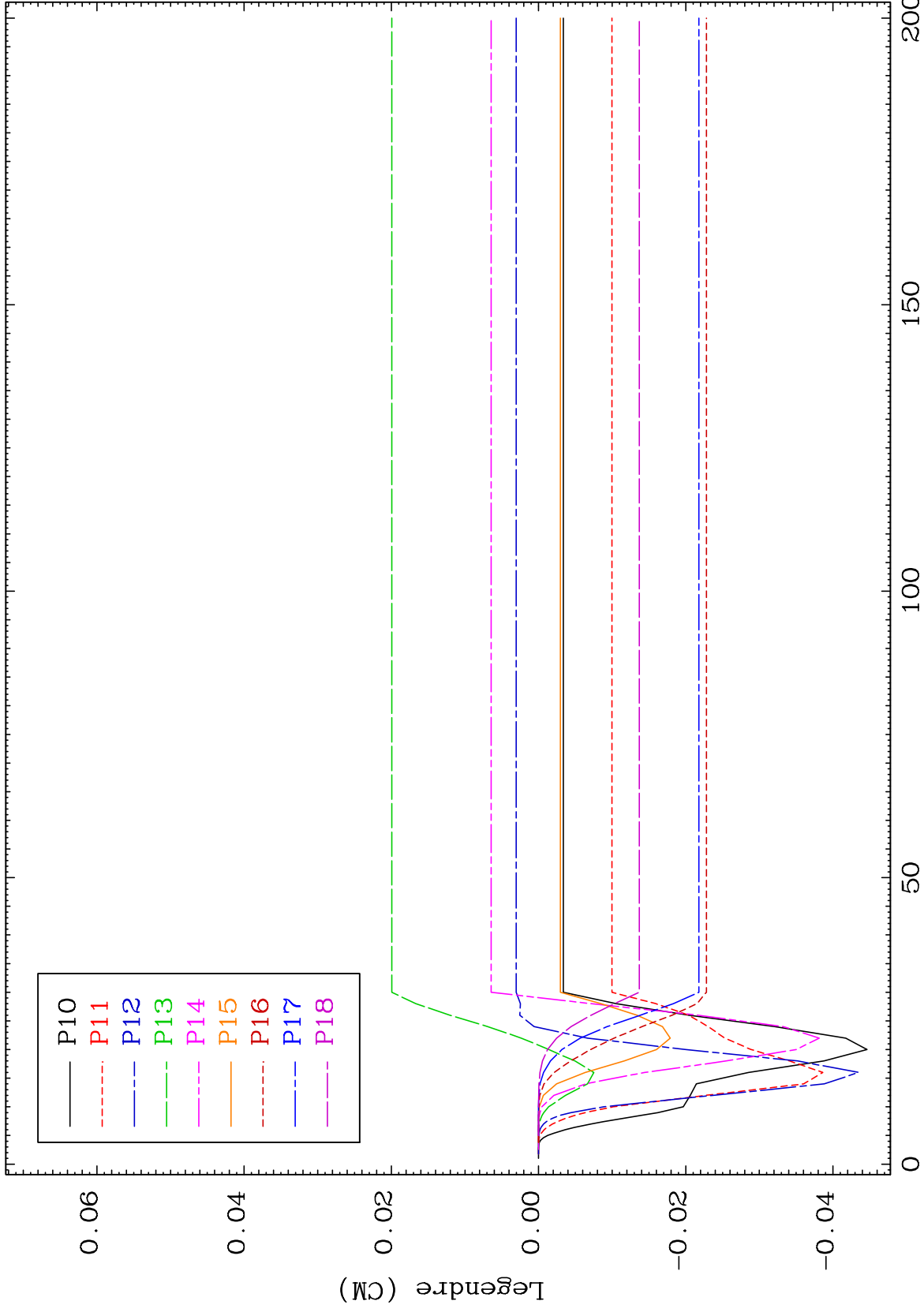
41-Nb-102

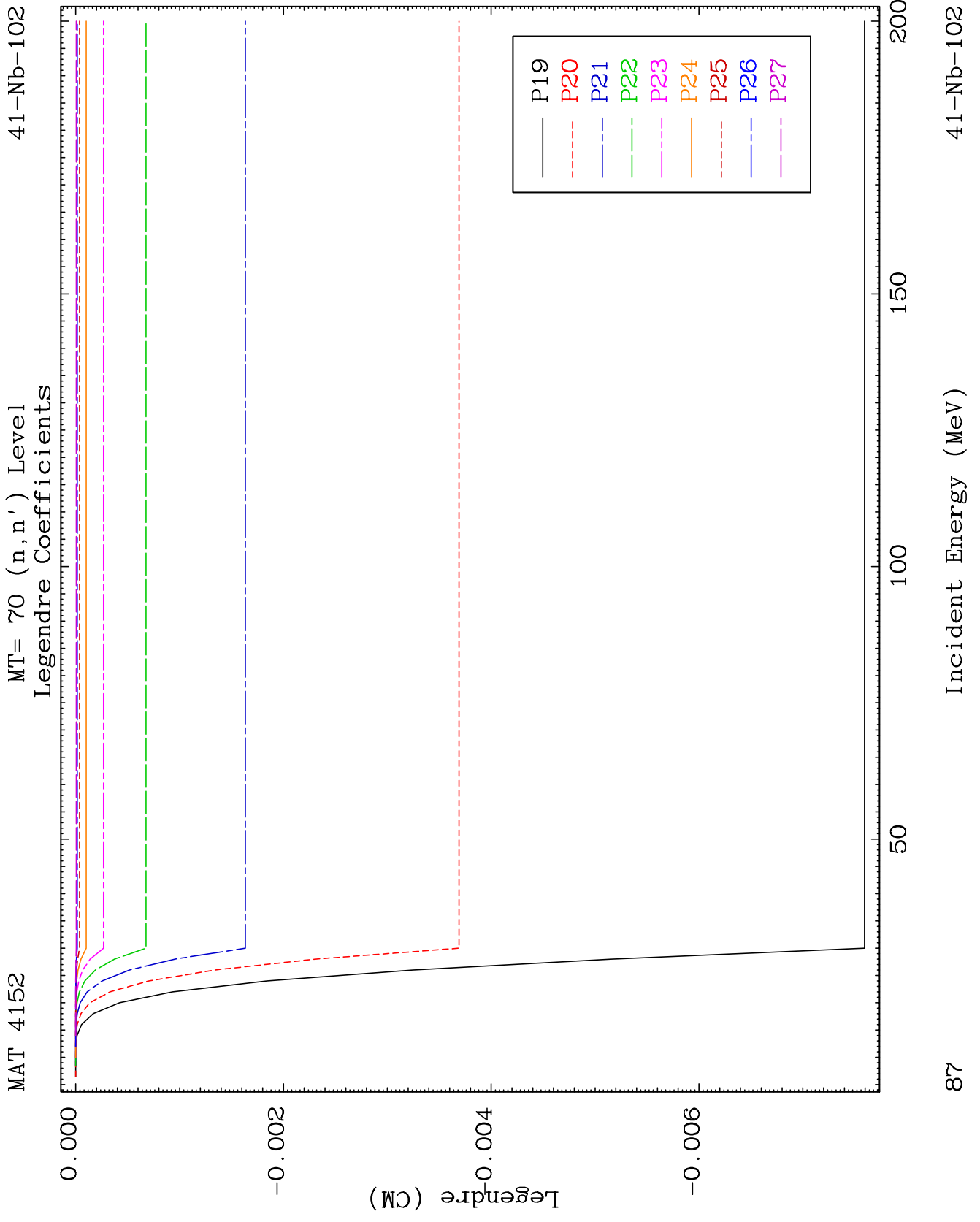


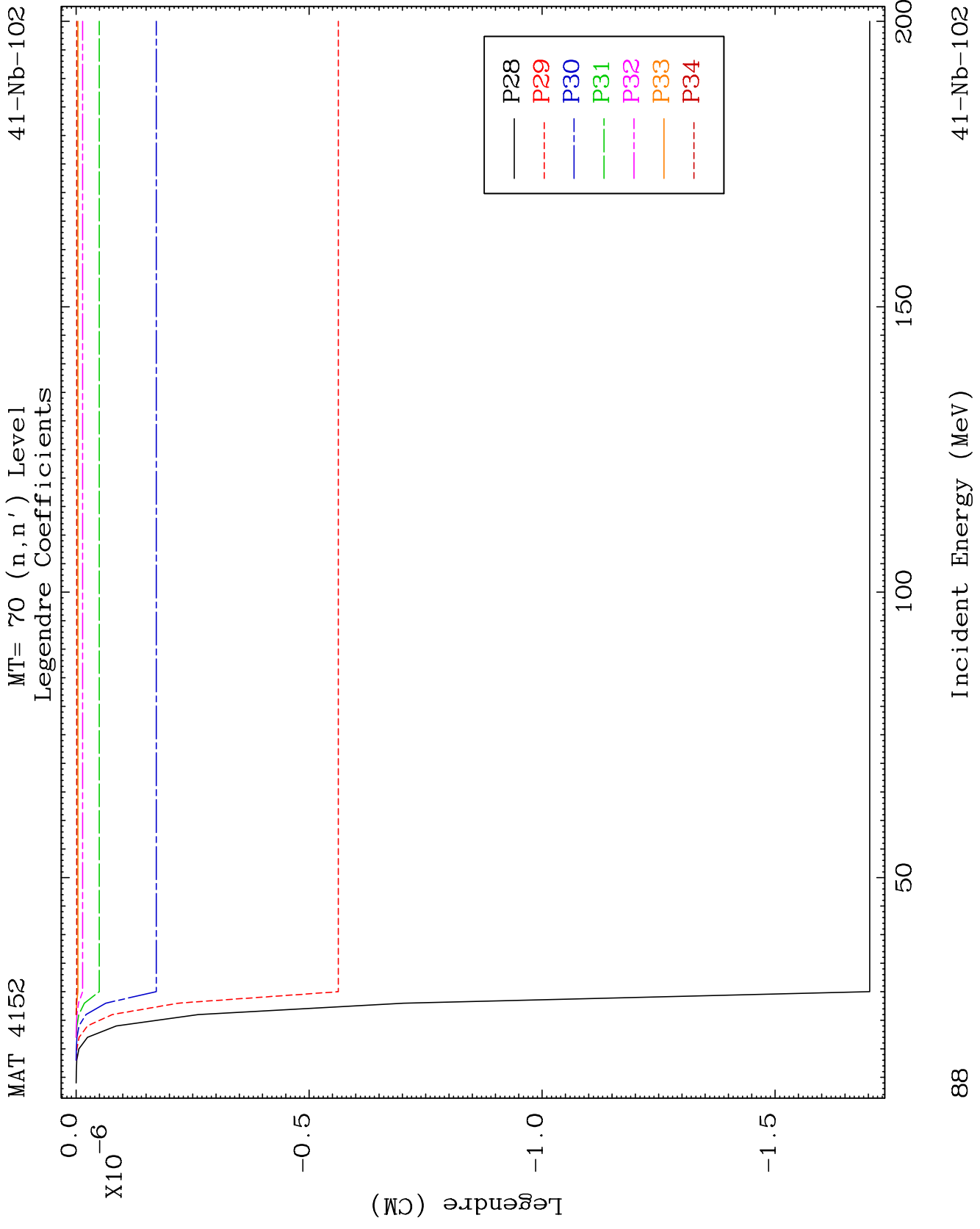
85

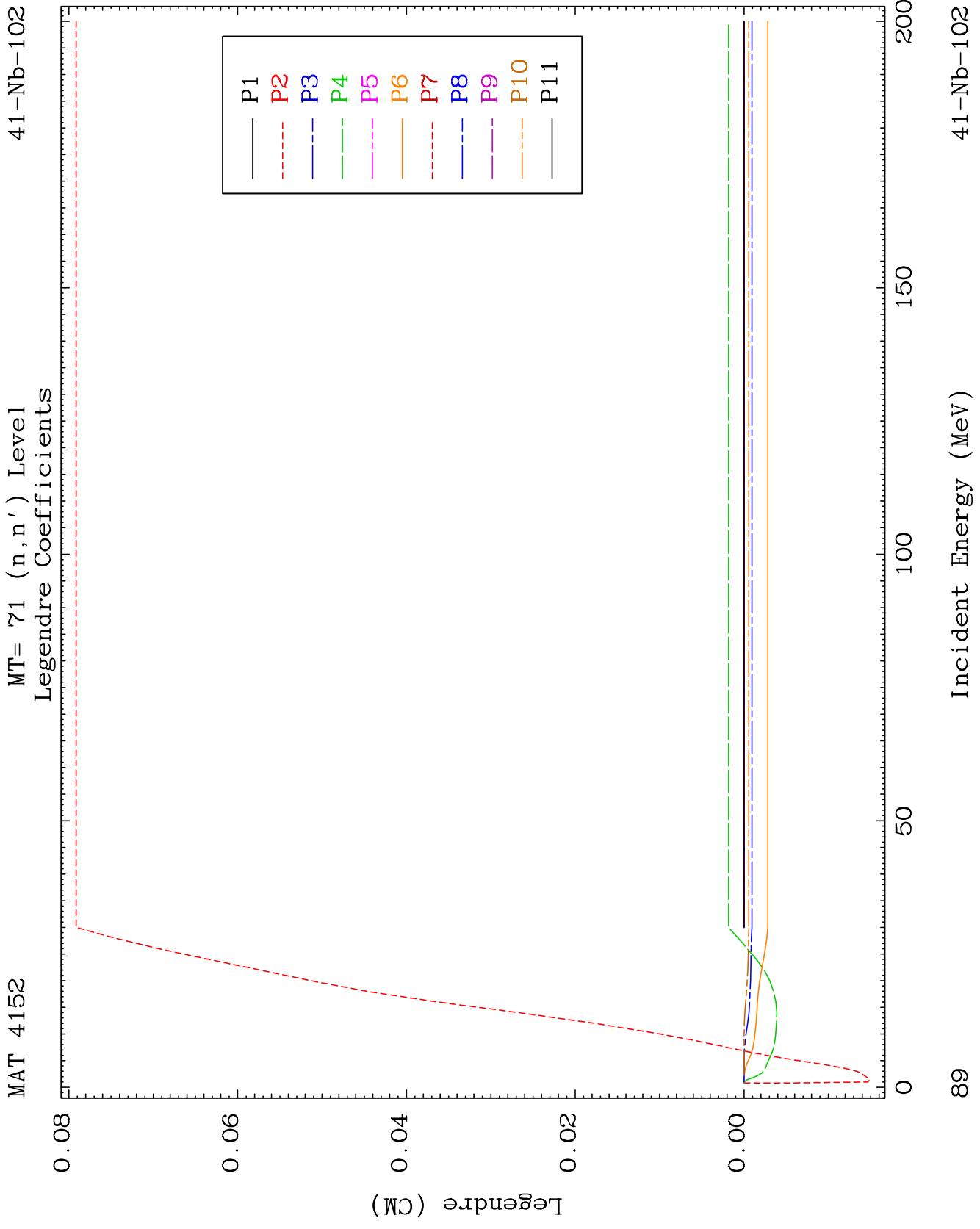
Incident Energy (MeV)

41-Nb-102





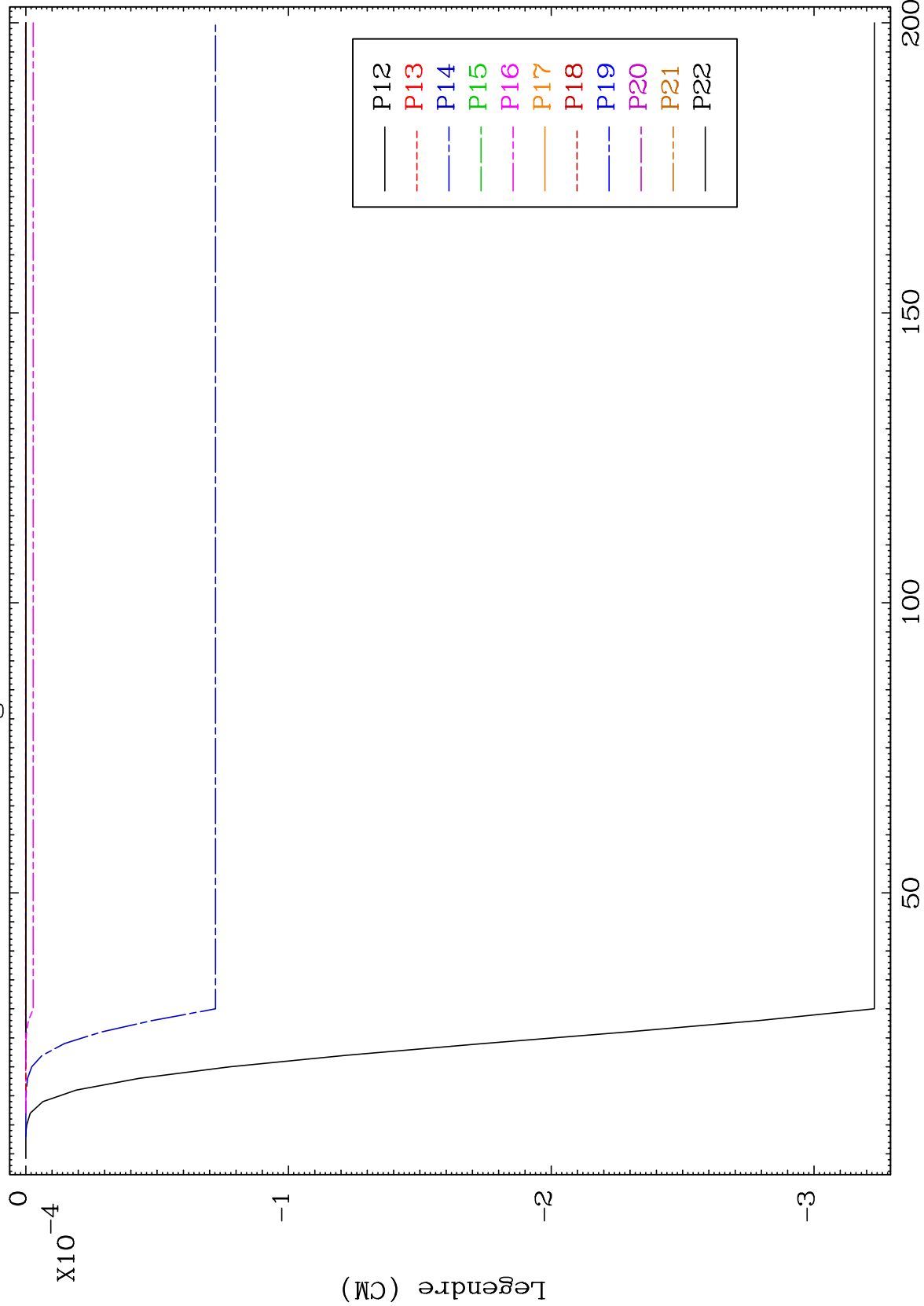




MAT 4152

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

41-Nb-102



90

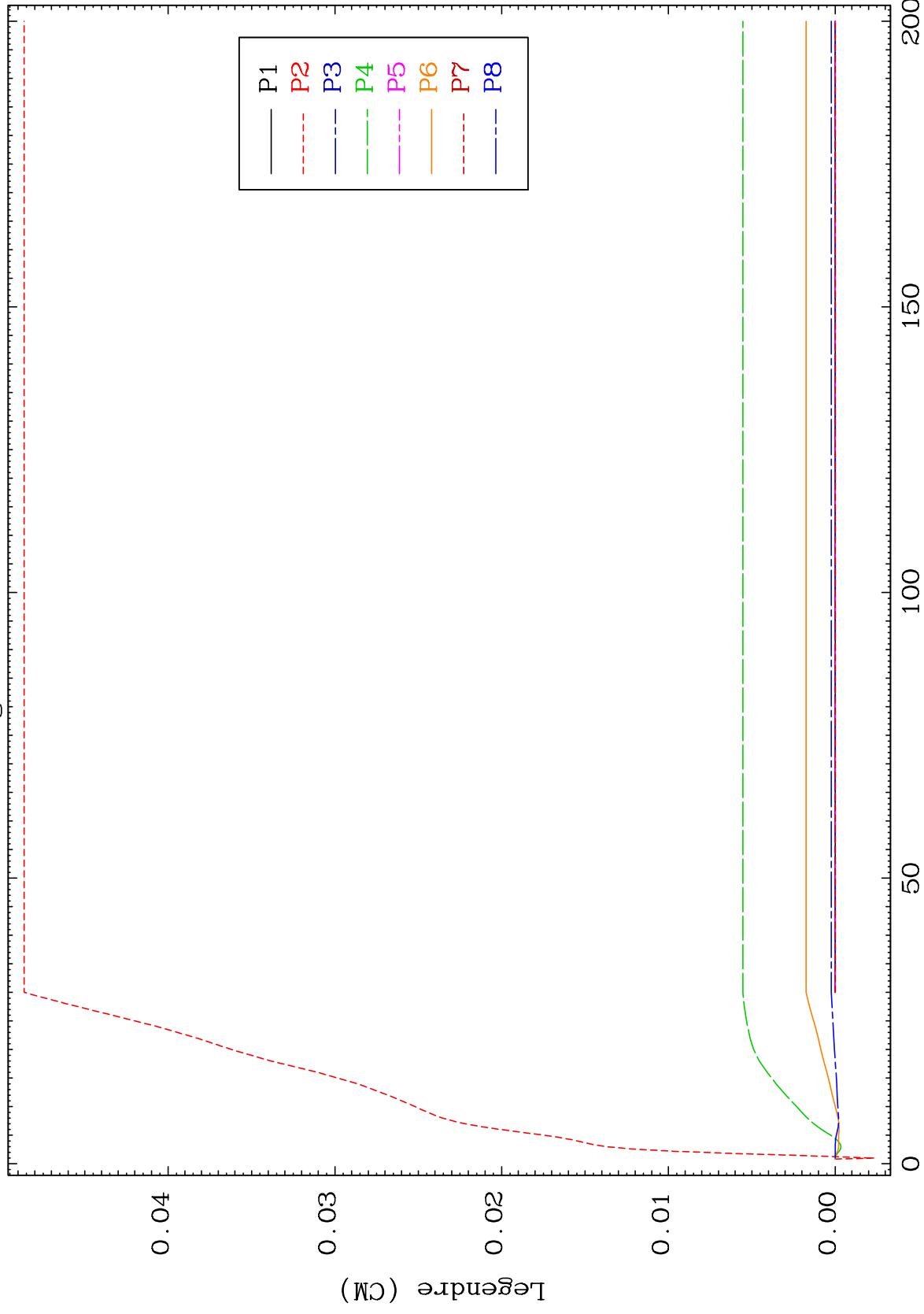
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



91

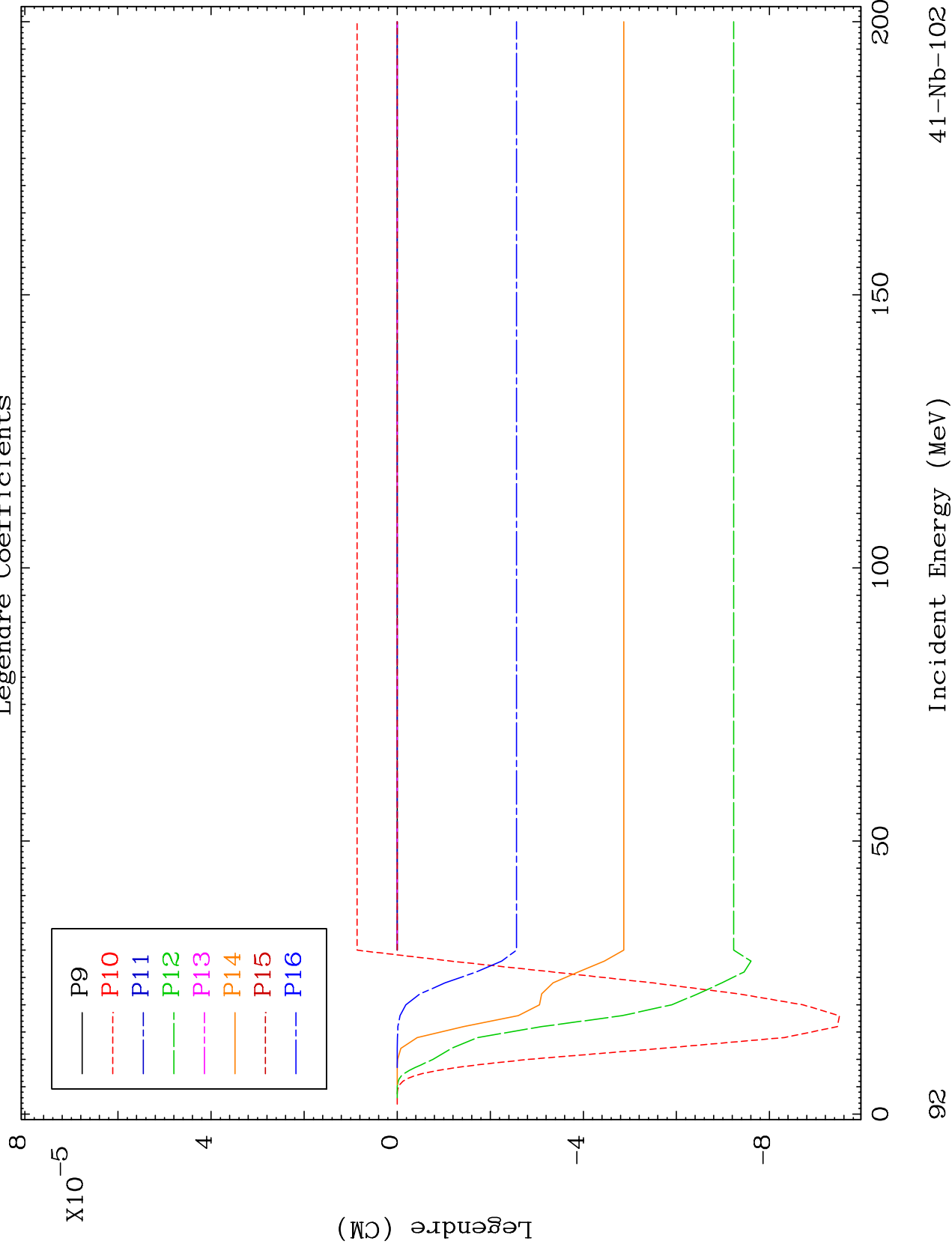
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



92

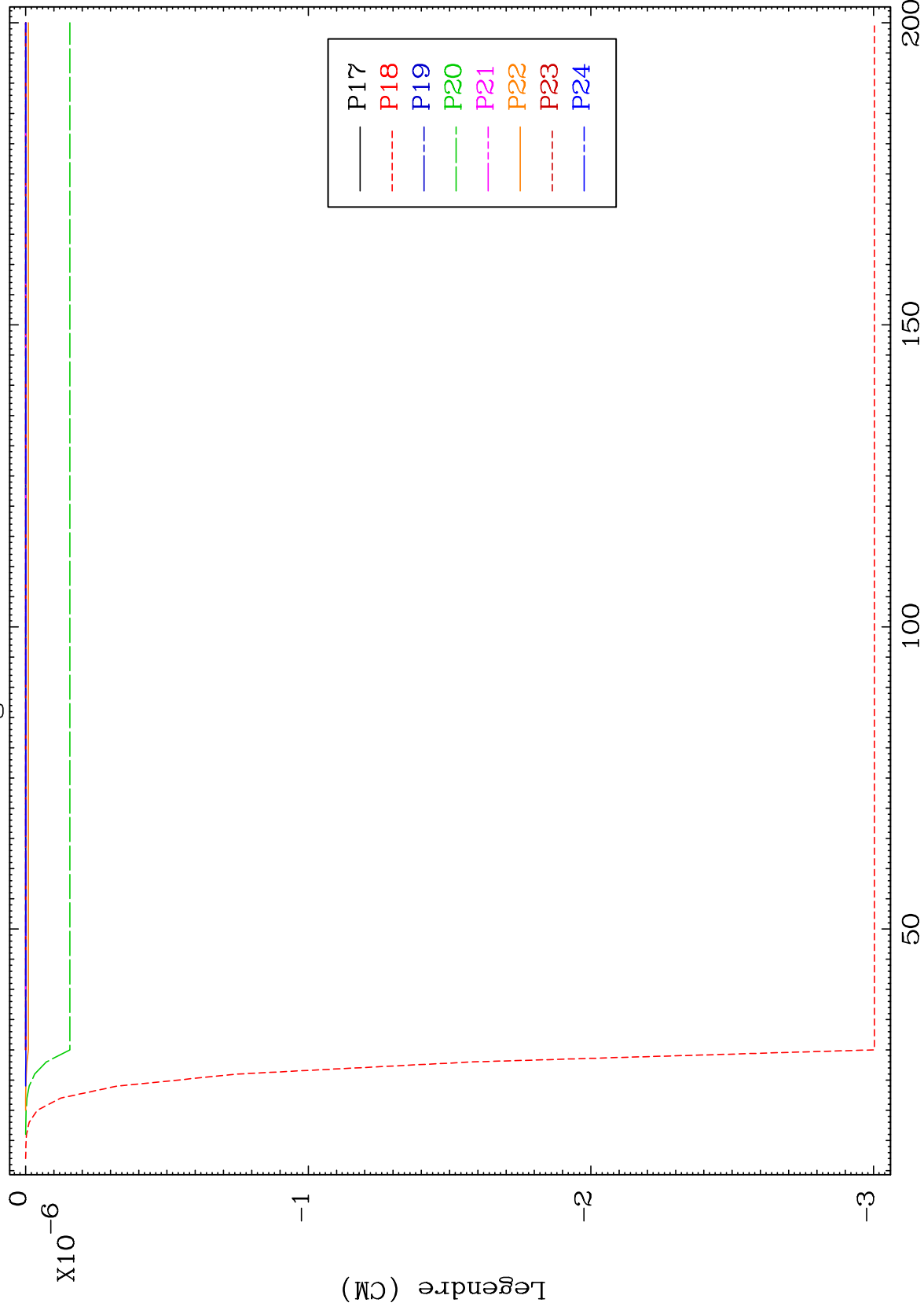
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



93

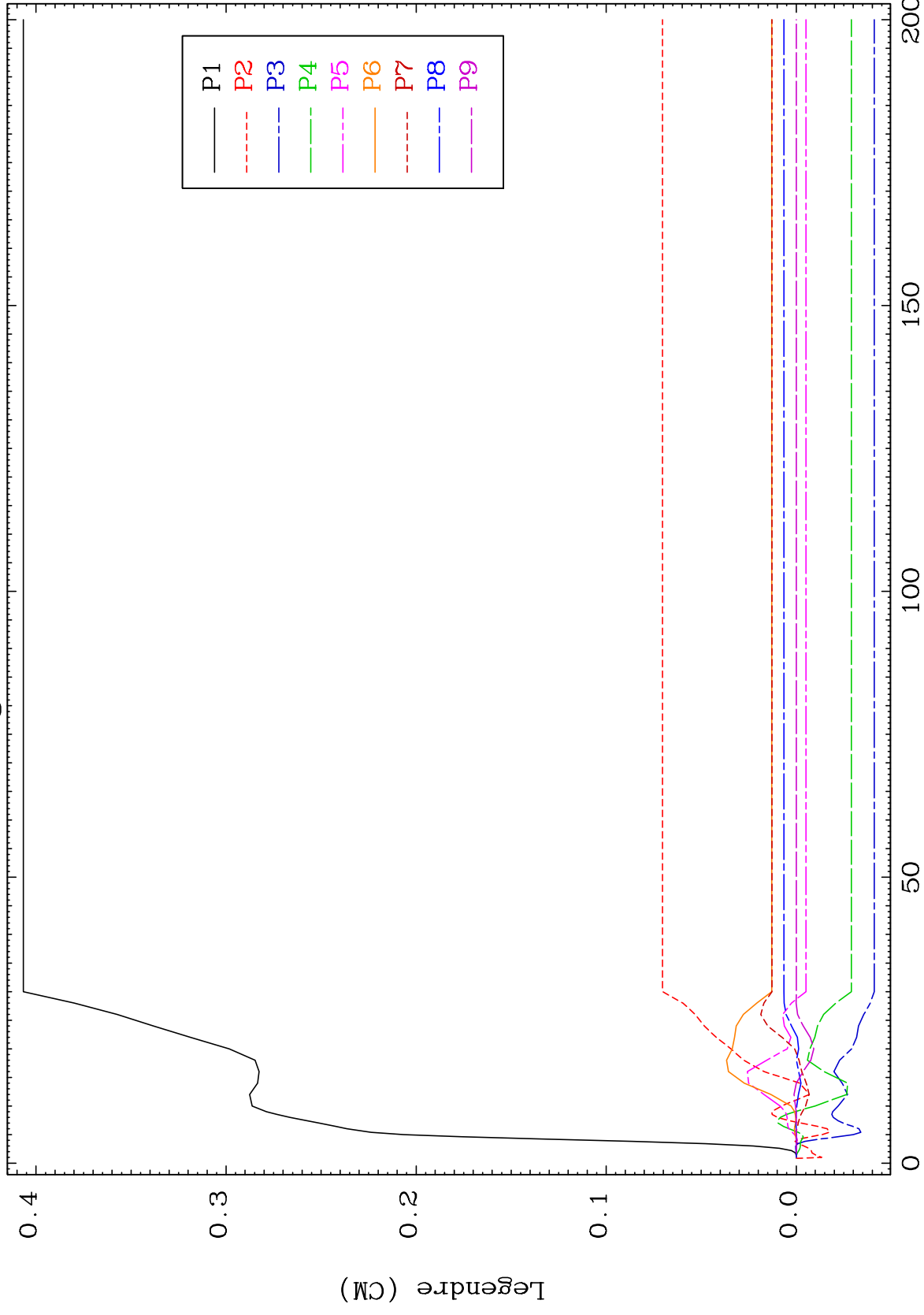
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



94

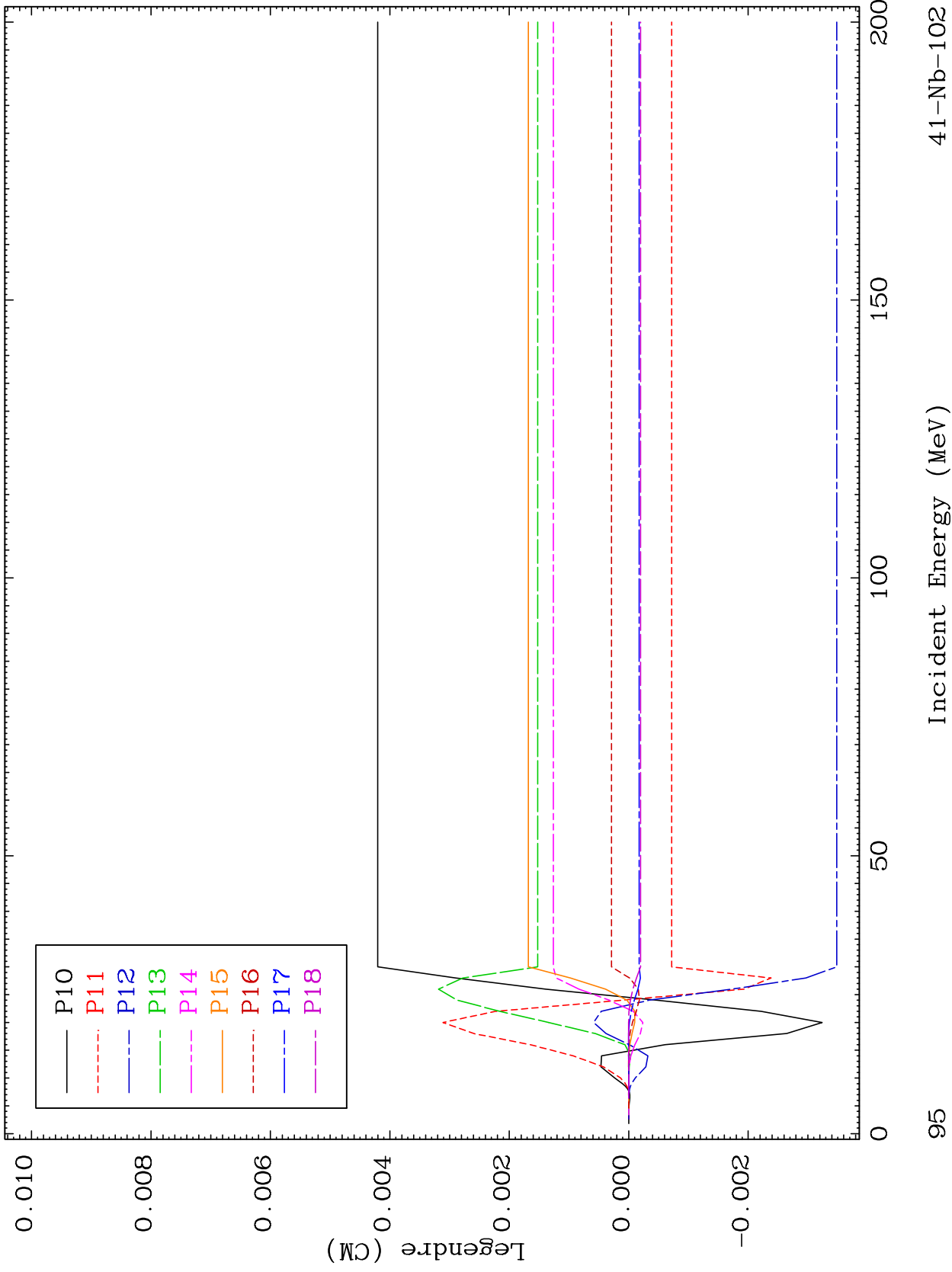
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

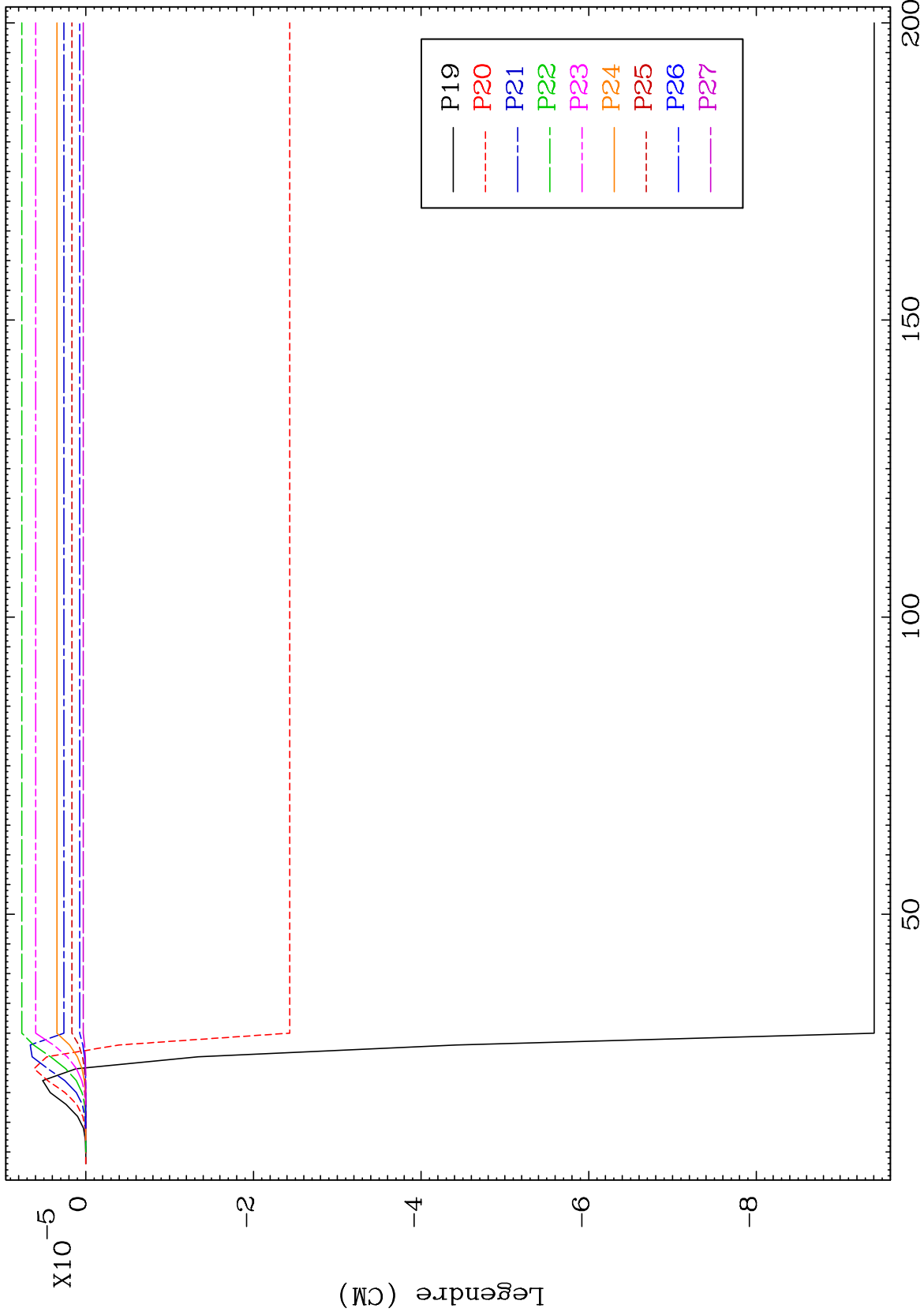
41-Nb-102

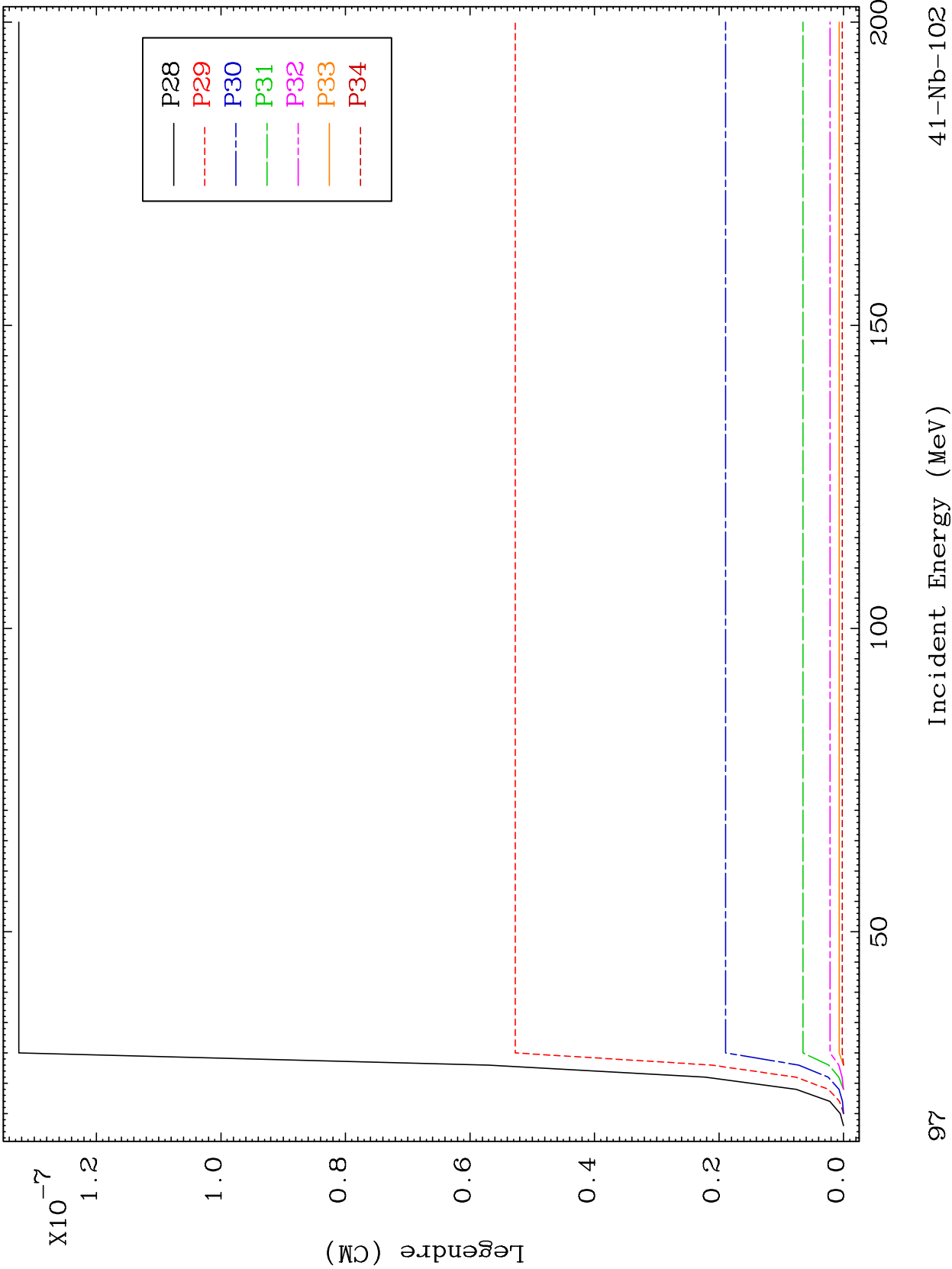


95

Incident Energy (MeV)

41-Nb-102

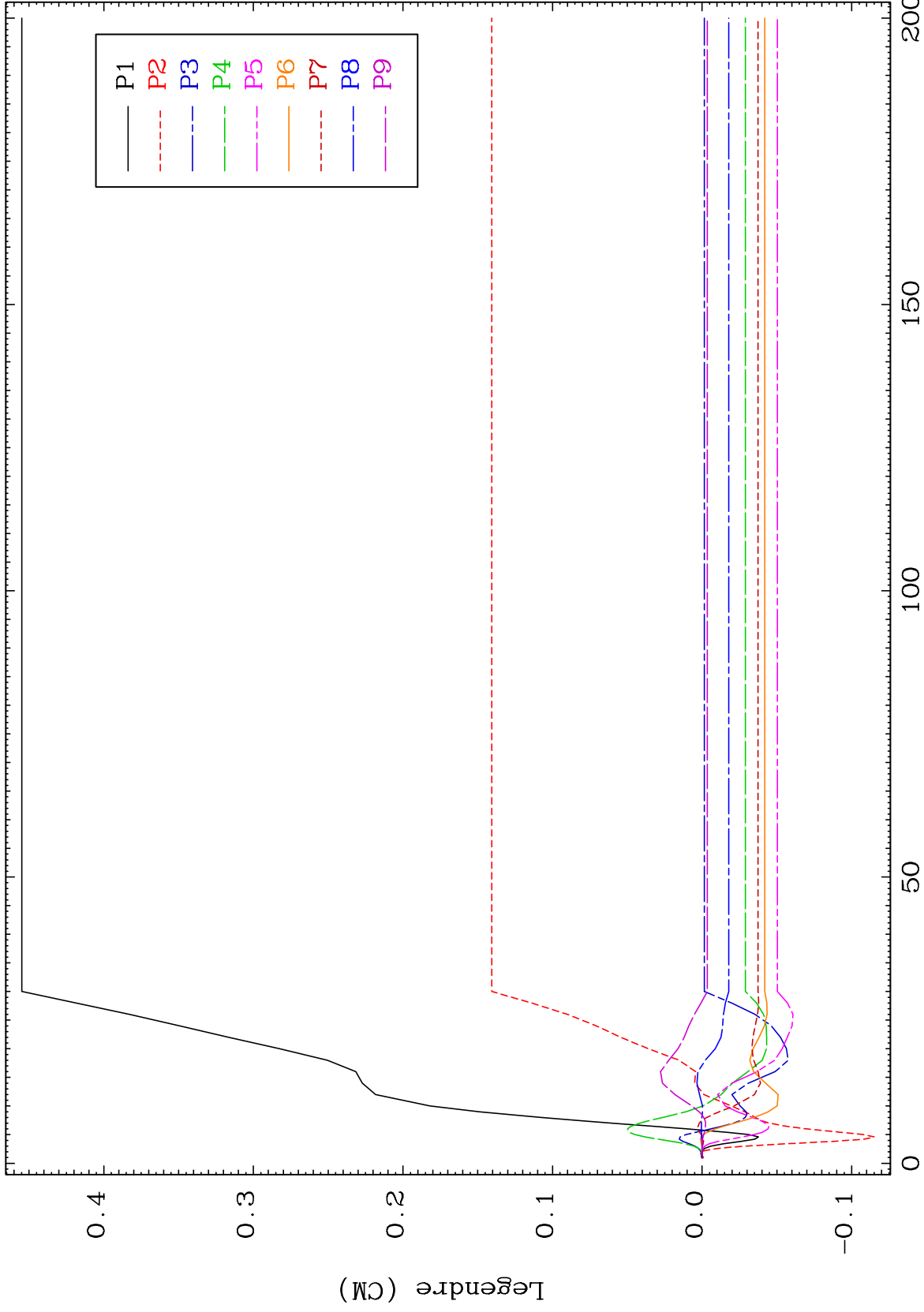




MAT 4152

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

41-Nb-102



98

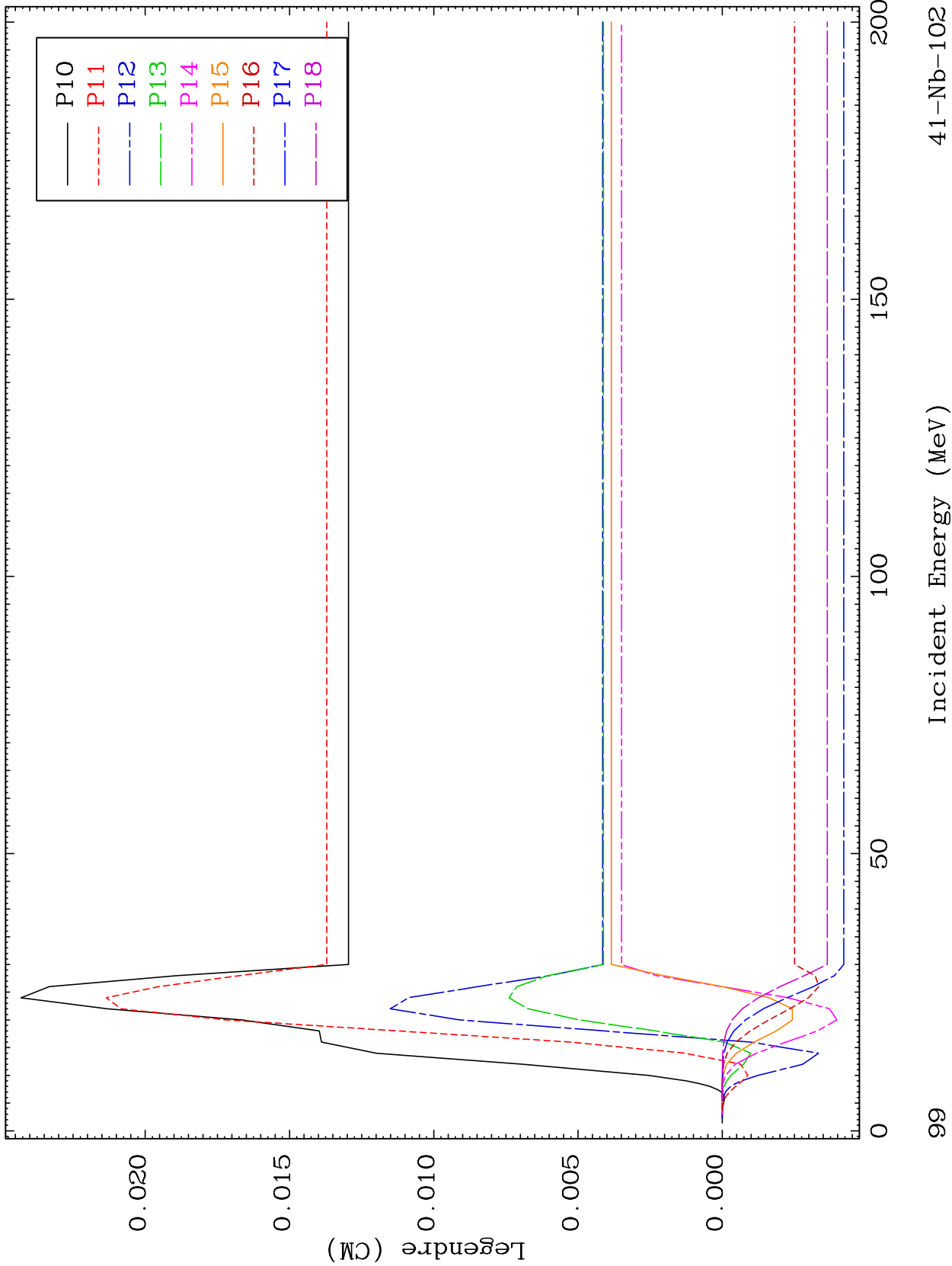
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

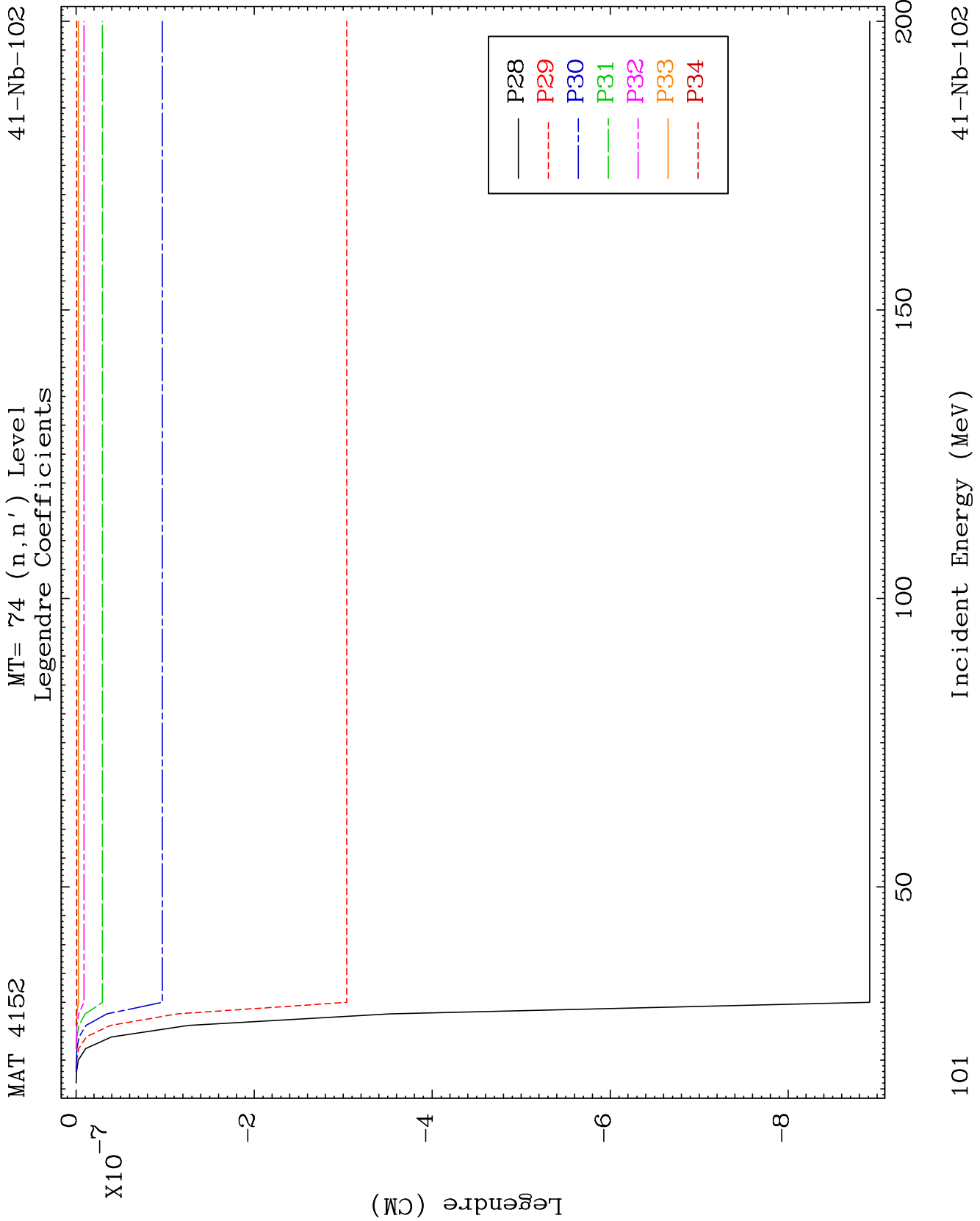
41-Nb-102



99

Incident Energy (MeV)

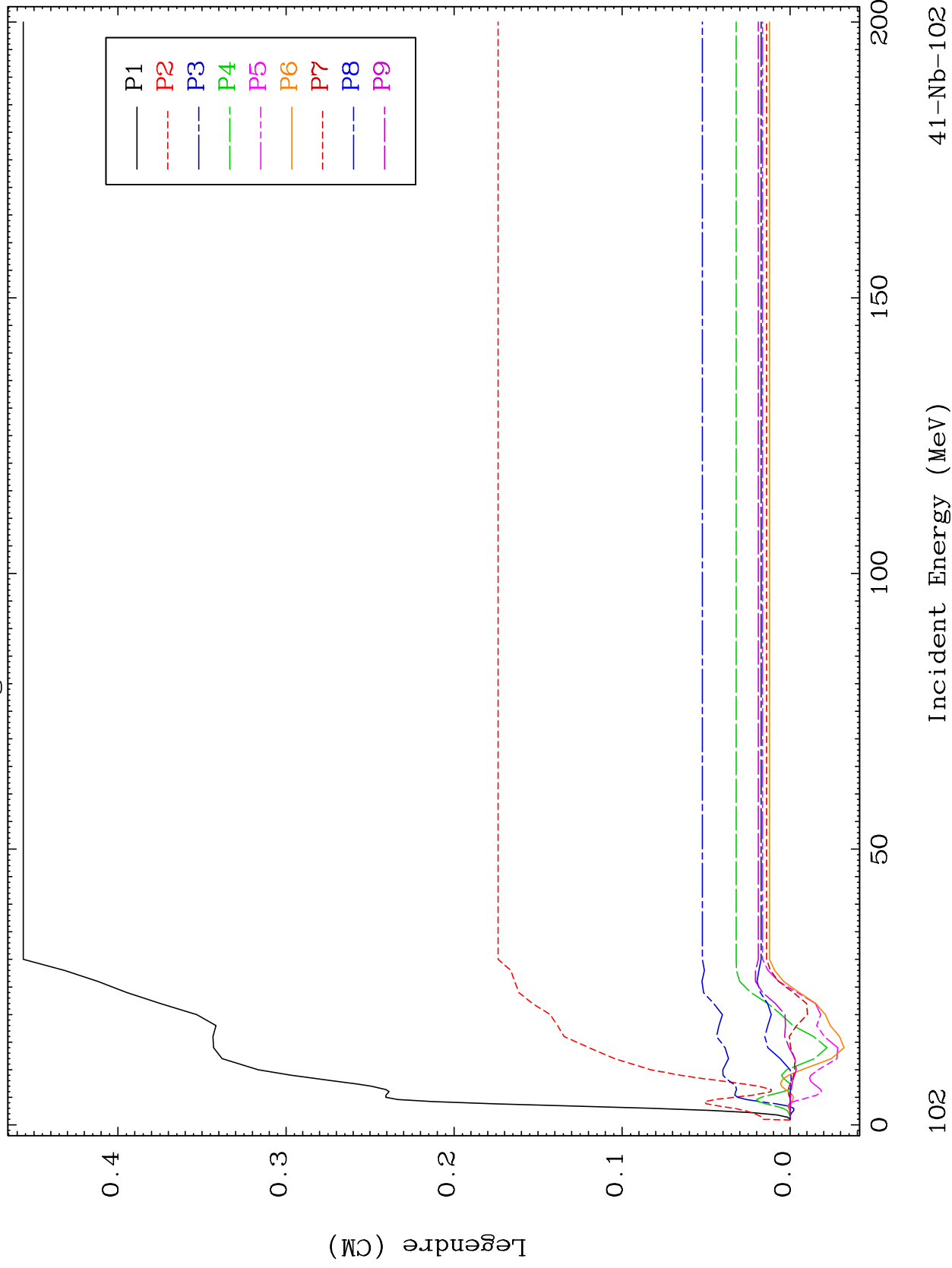
41-Nb-102



MAT 4152

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

41-Nb-102



41-Nb-102

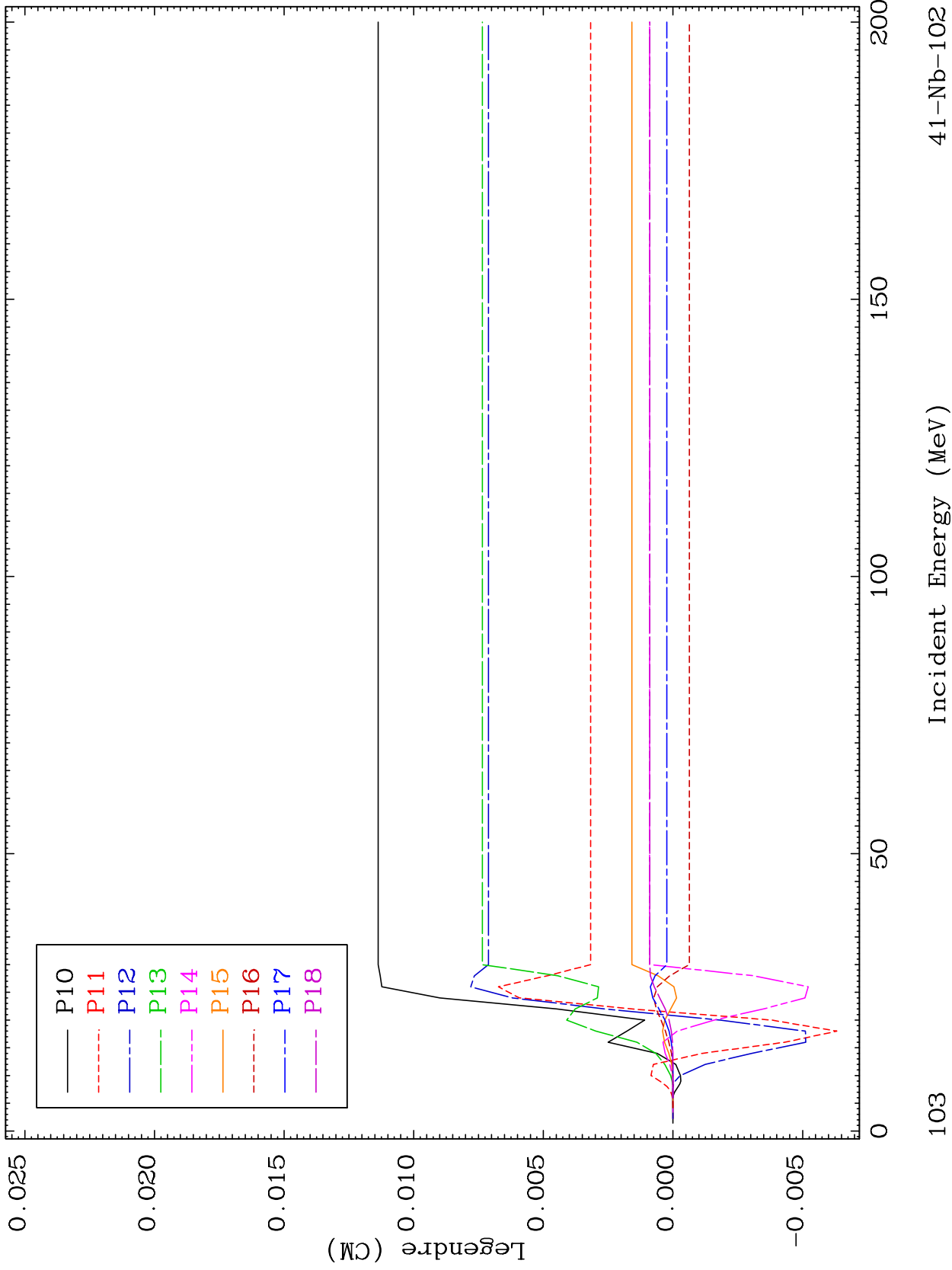
Incident Energy (MeV)

102

MAT 4152

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

41-Nb-102



41-Nb-102

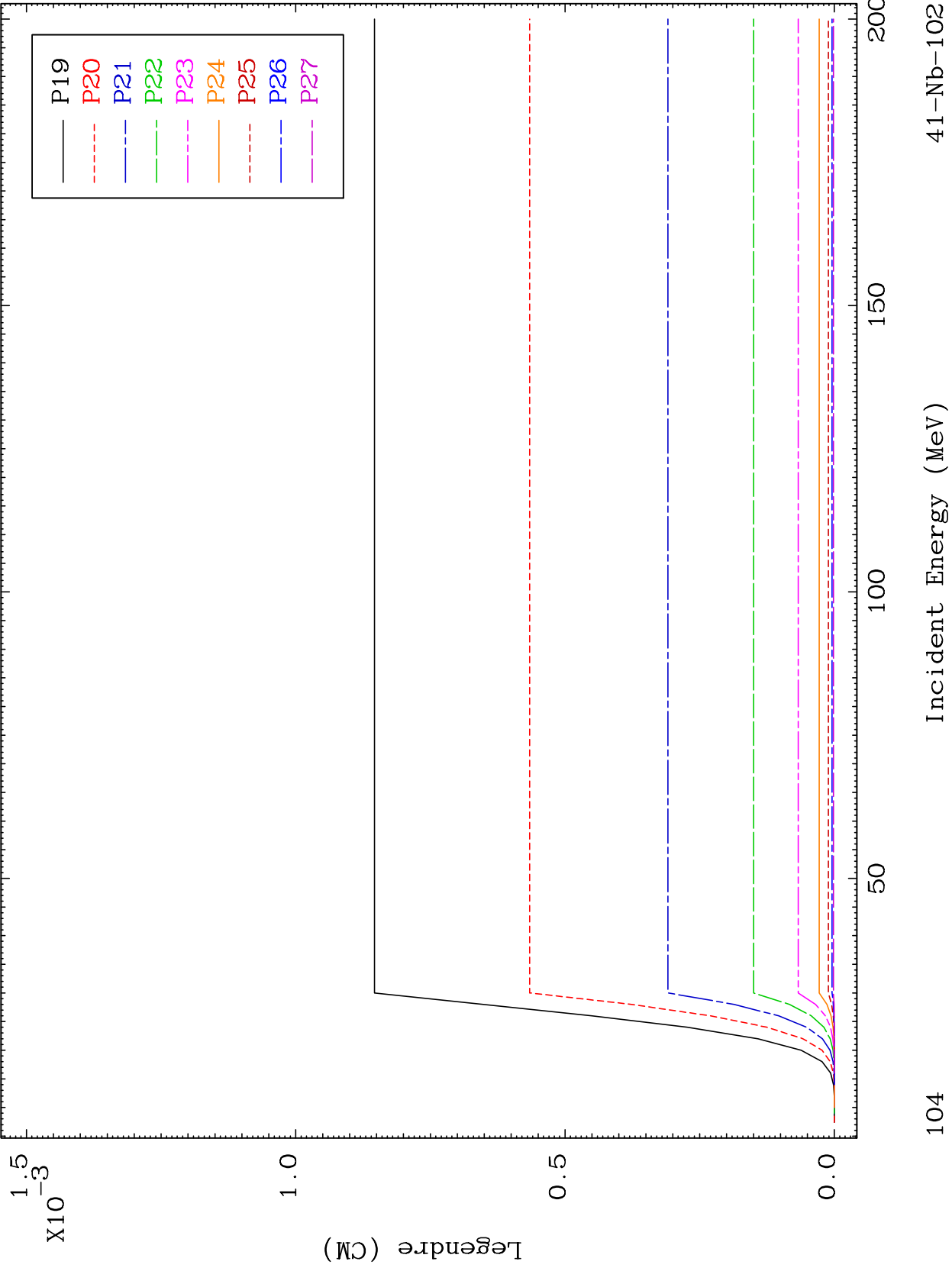
Incident Energy (MeV)

103

MAT 4152

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

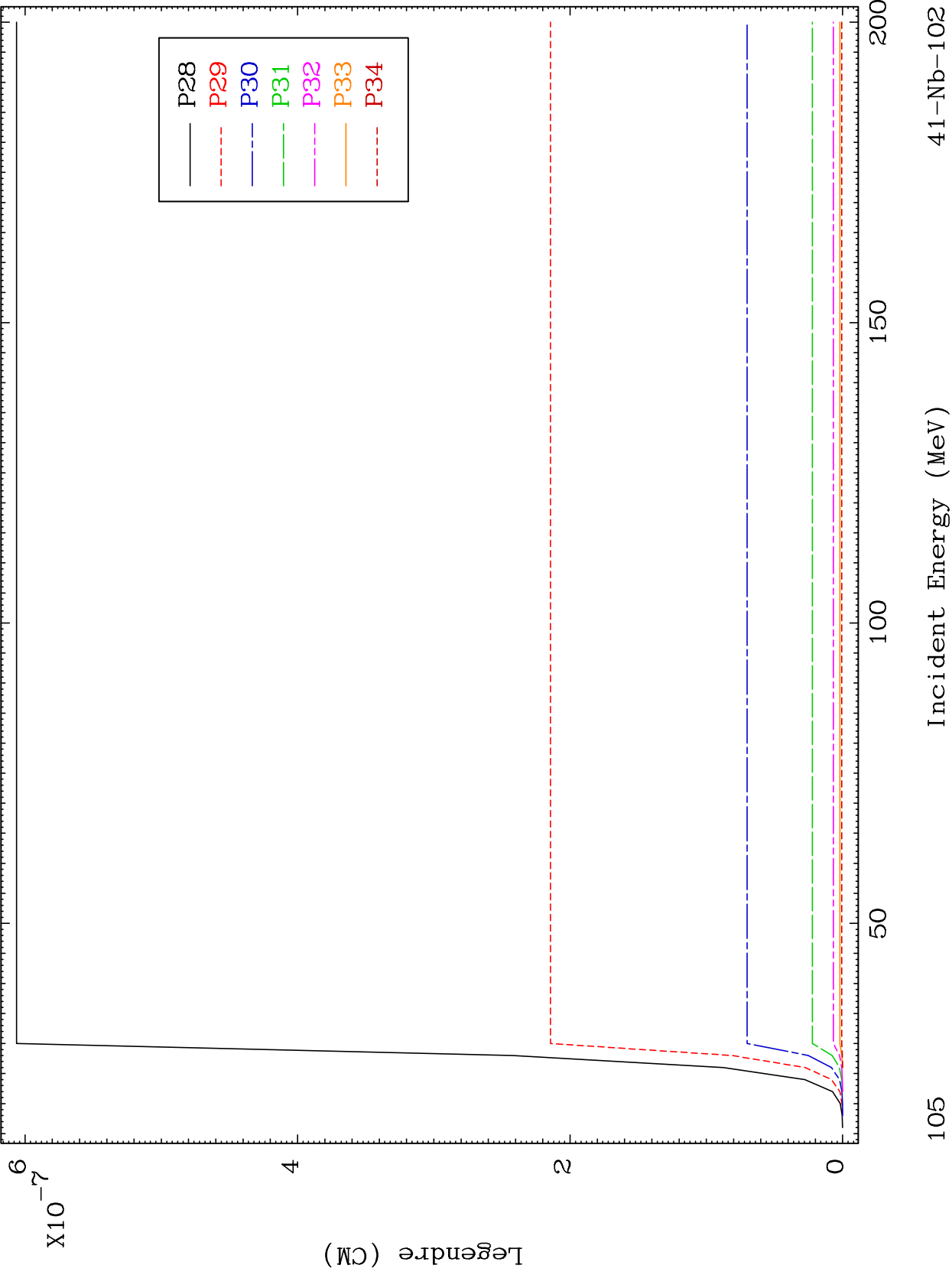
41-Nb-102



MAT 4152

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

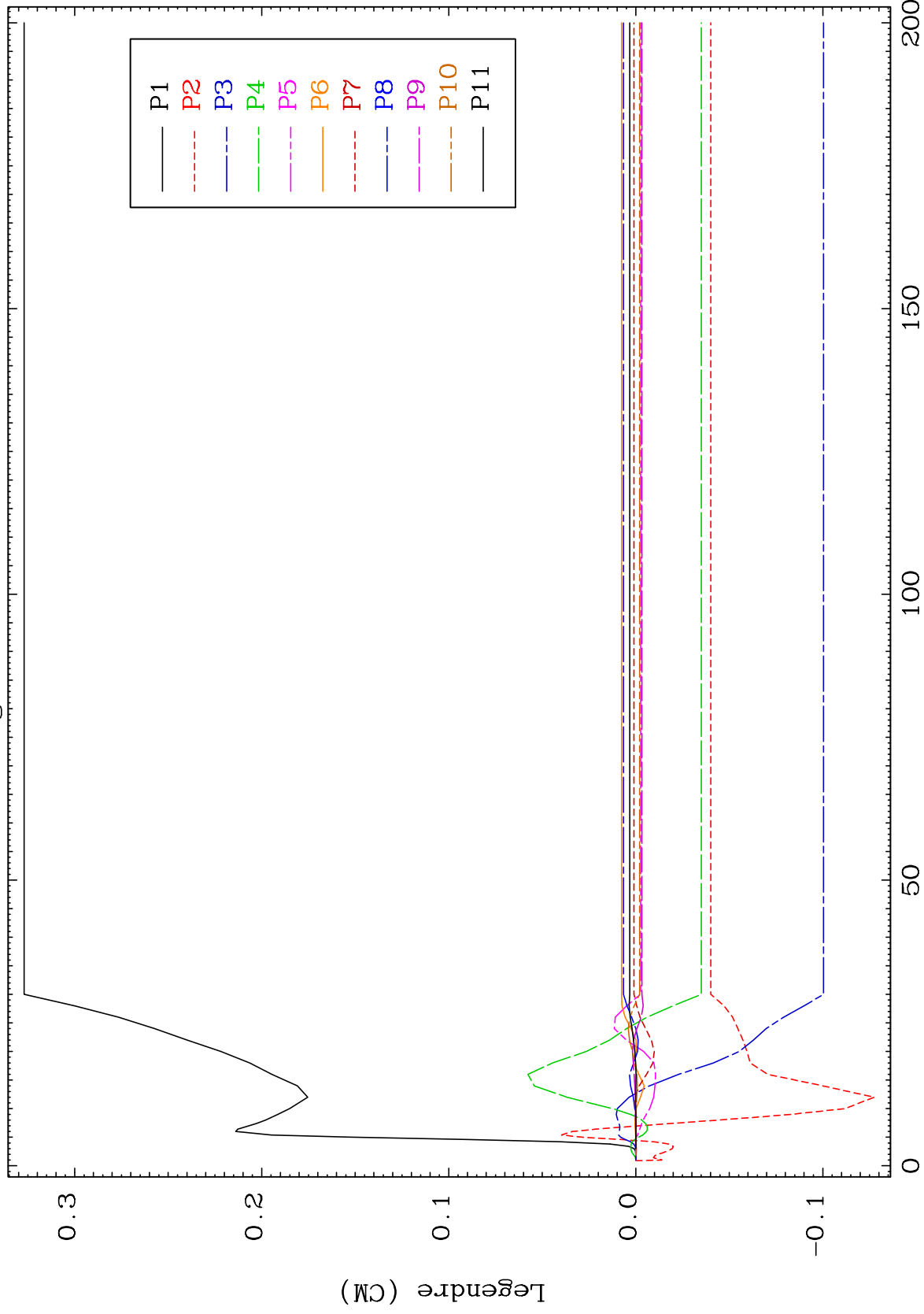
41-Nb-102



MAT 4152

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

41-Nb-102



106

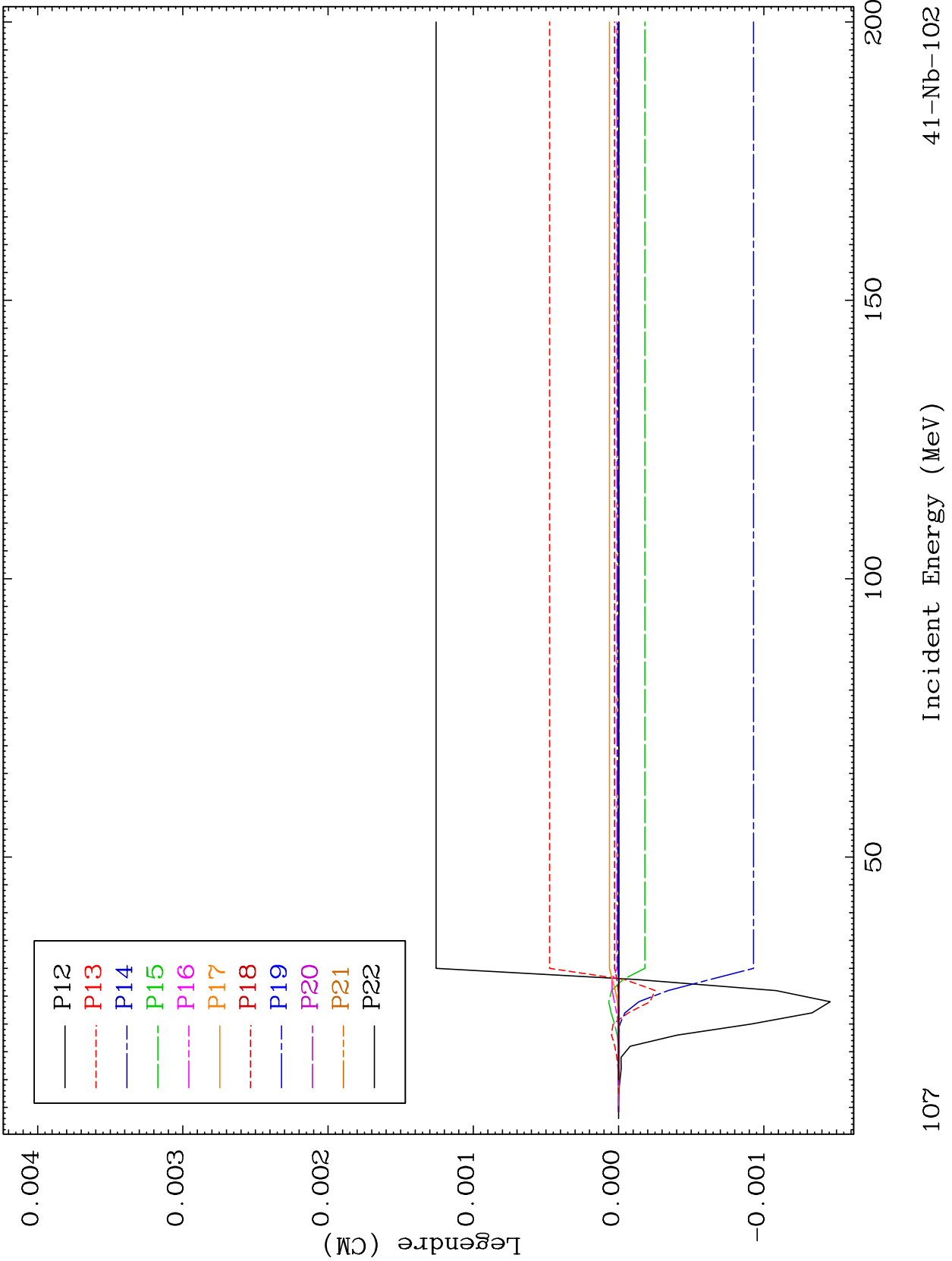
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



107

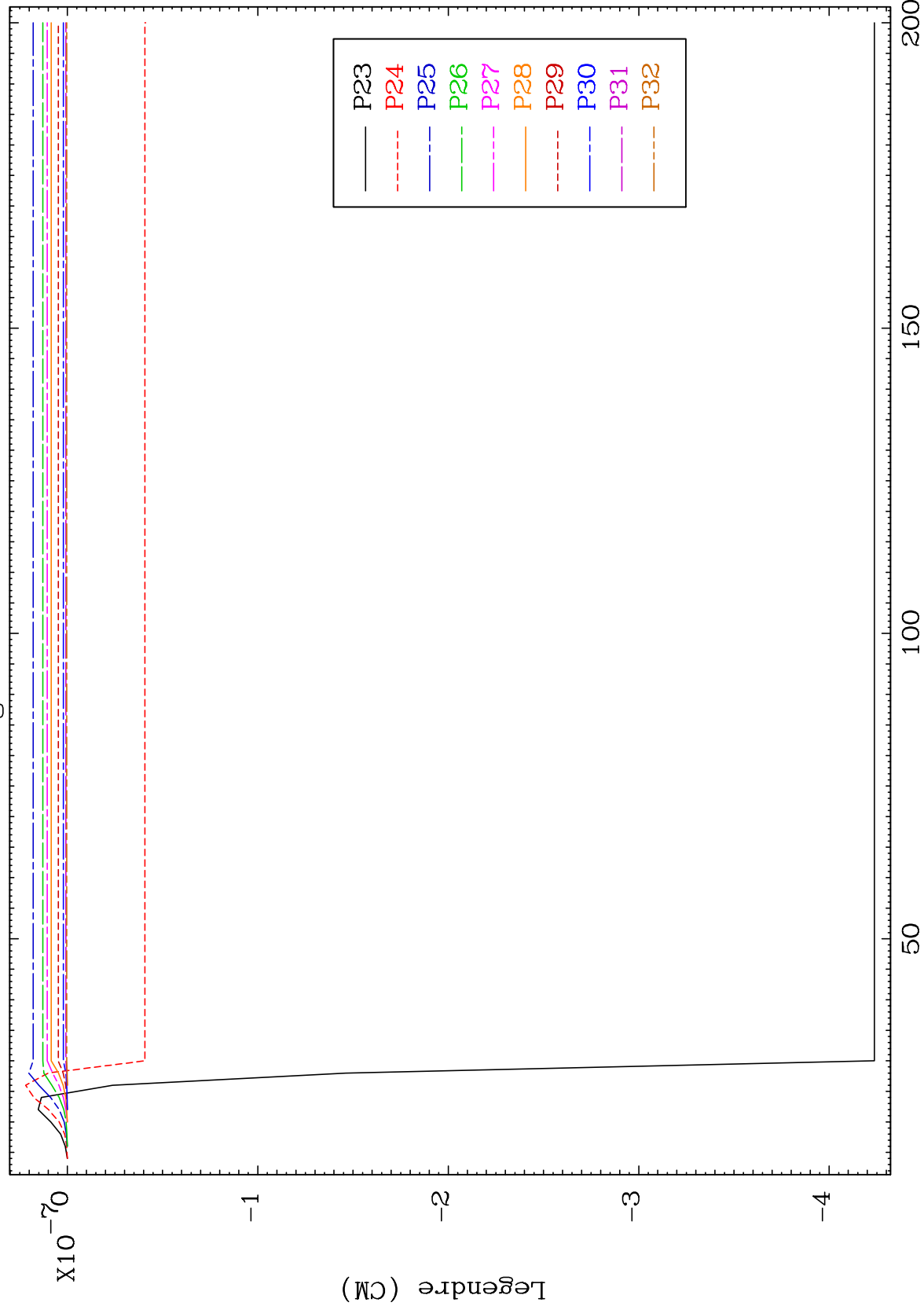
41-Nb-102

Incident Energy (MeV)

MAT 4152

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

41-Nb-102



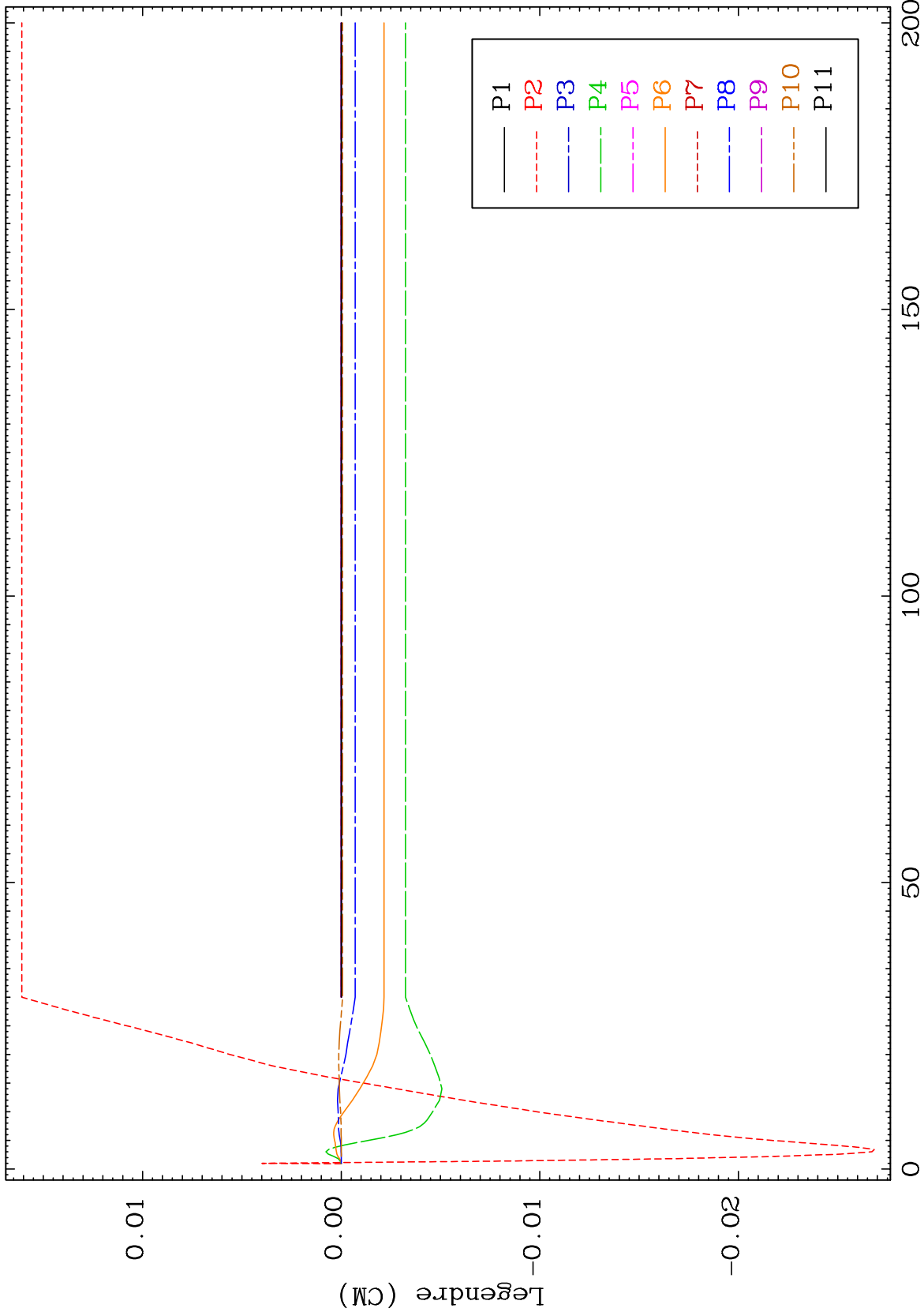
108

41-Nb-102

MAT 4152

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

41-Nb-102



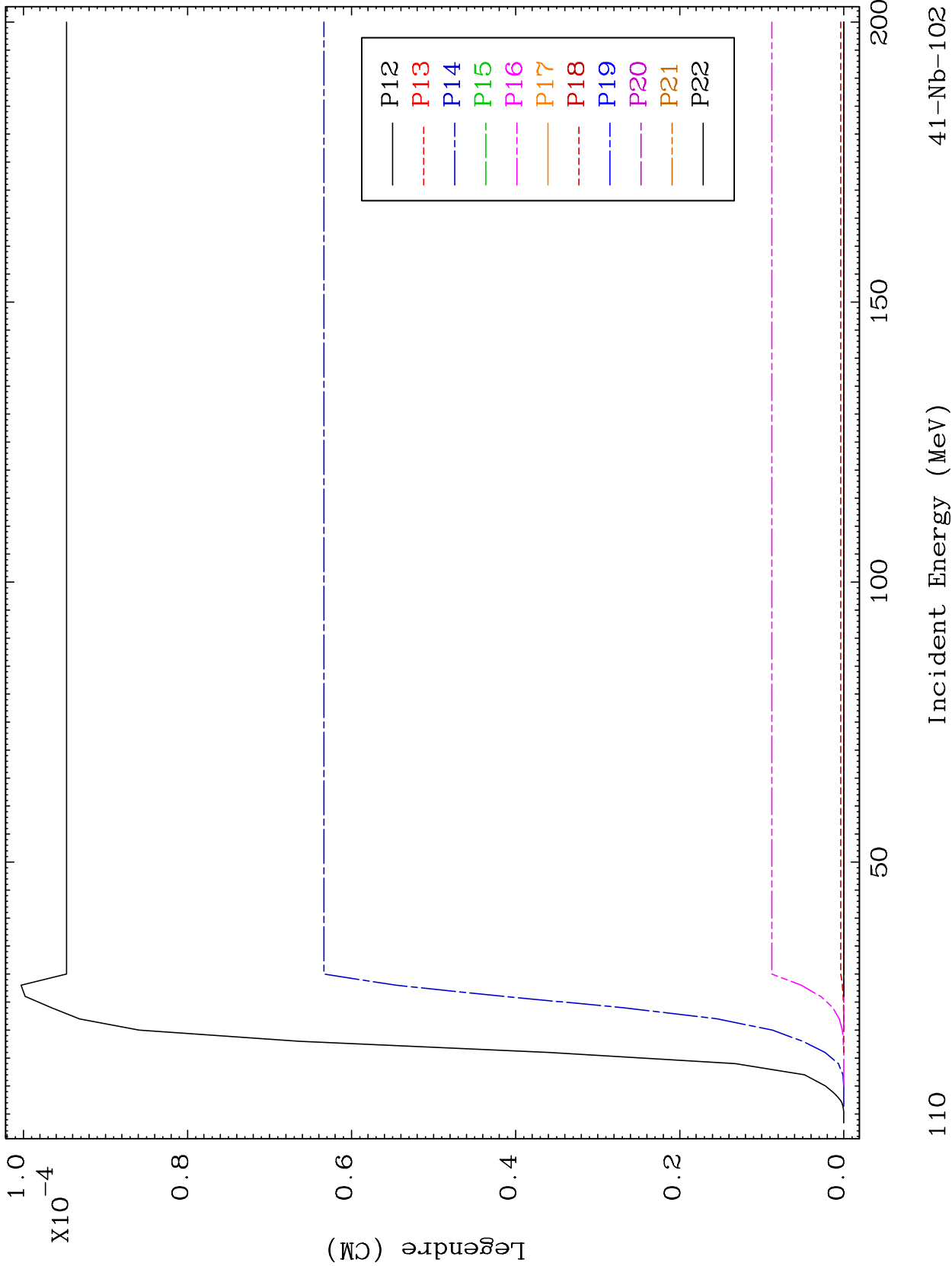
109

41-Nb-102

MAT 4152

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

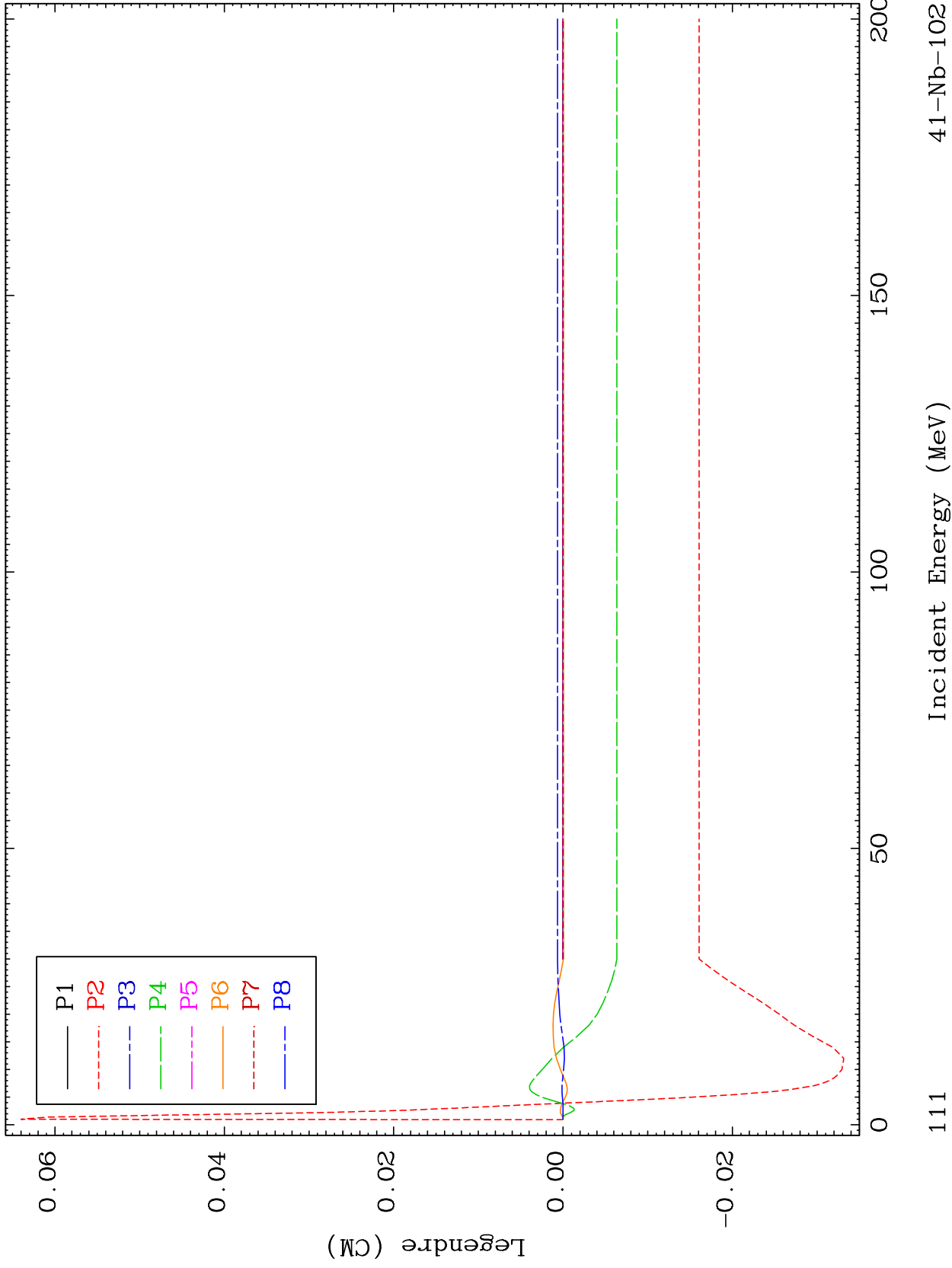
41-Nb-102



MAT 4152

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

41-Nb-102

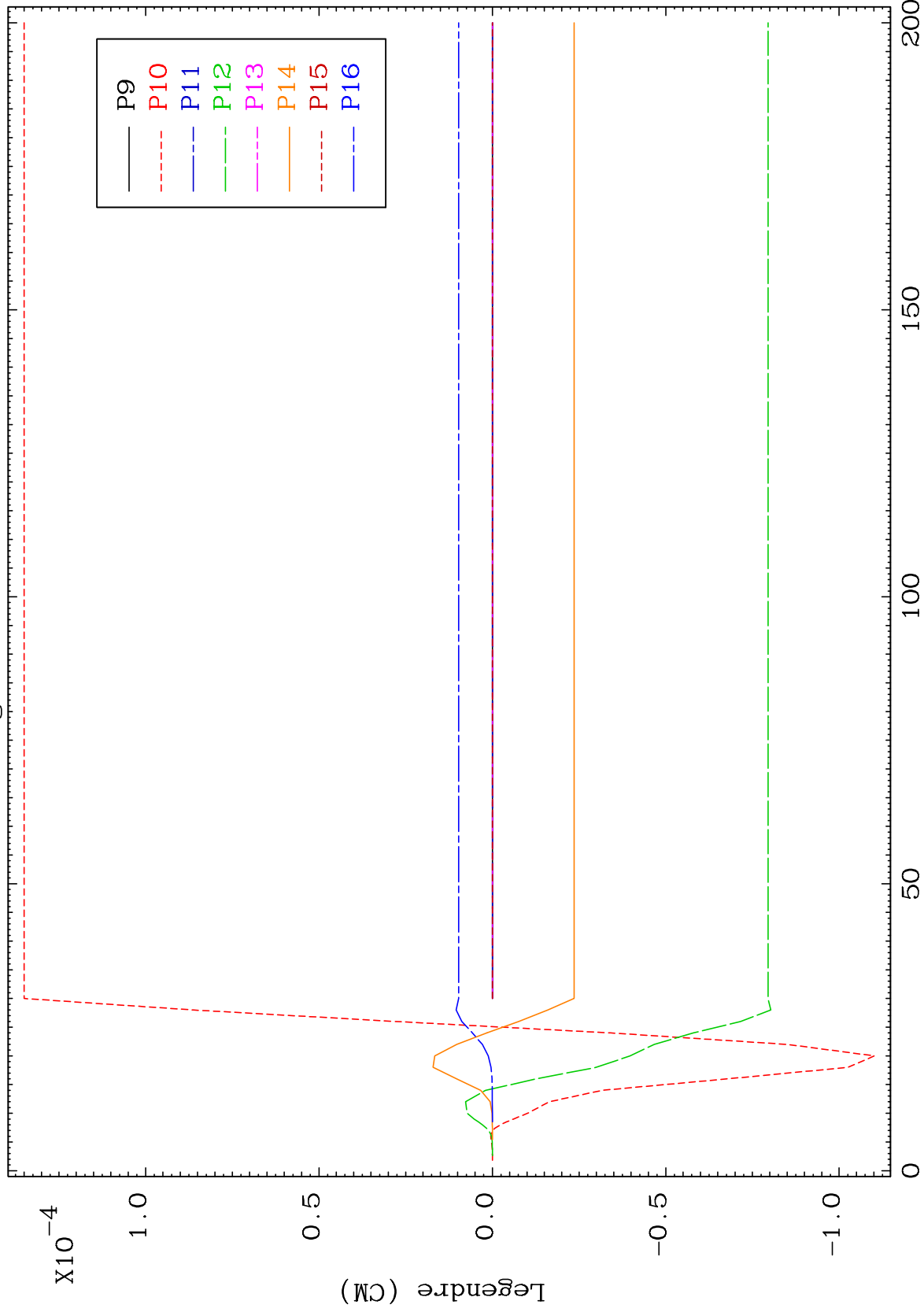


111

MAT 4152

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

41-Nb-102



112

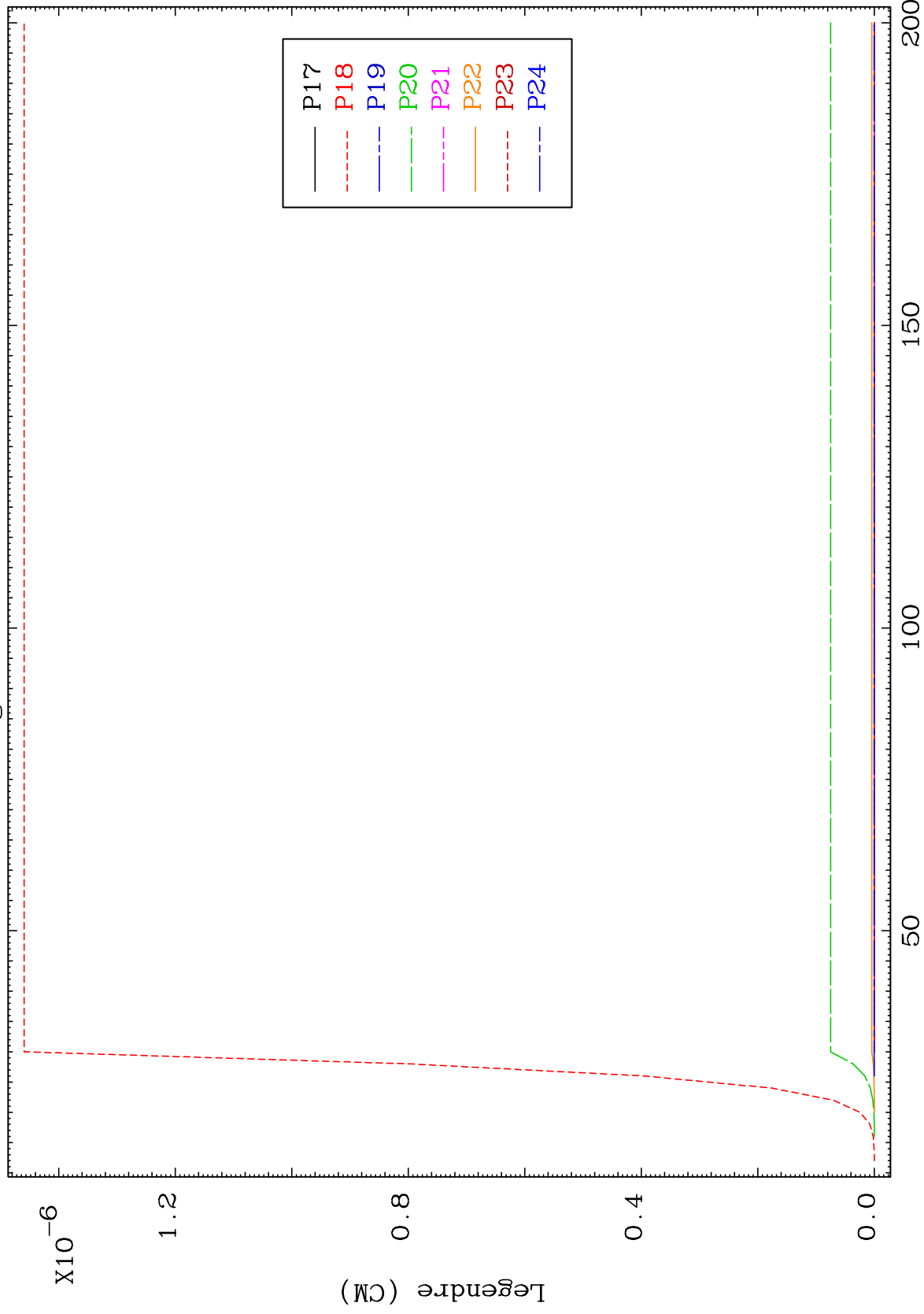
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



113

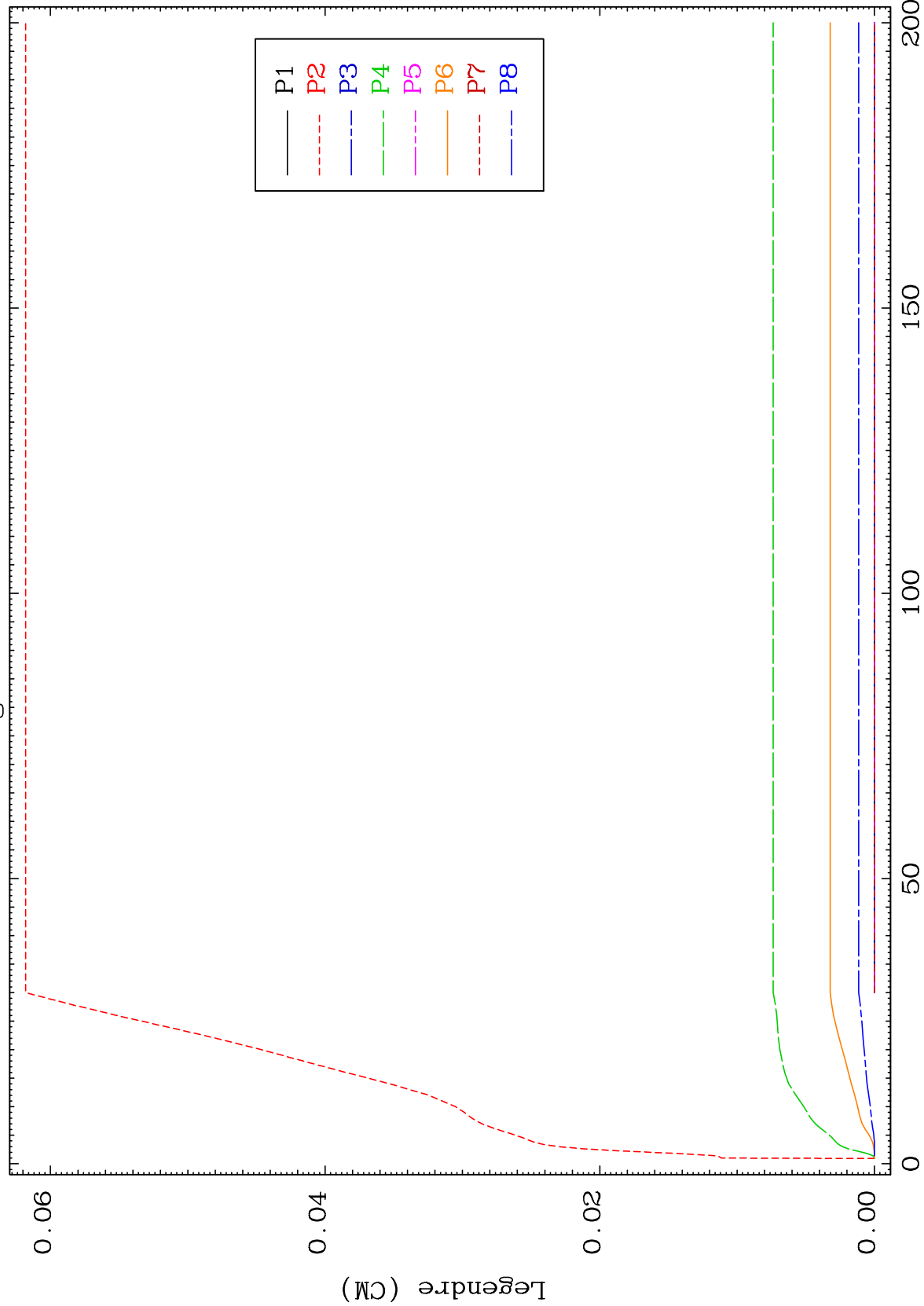
Incident Energy (MeV)

41-Nb-102

MAT 4152

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

41-Nb-102



114

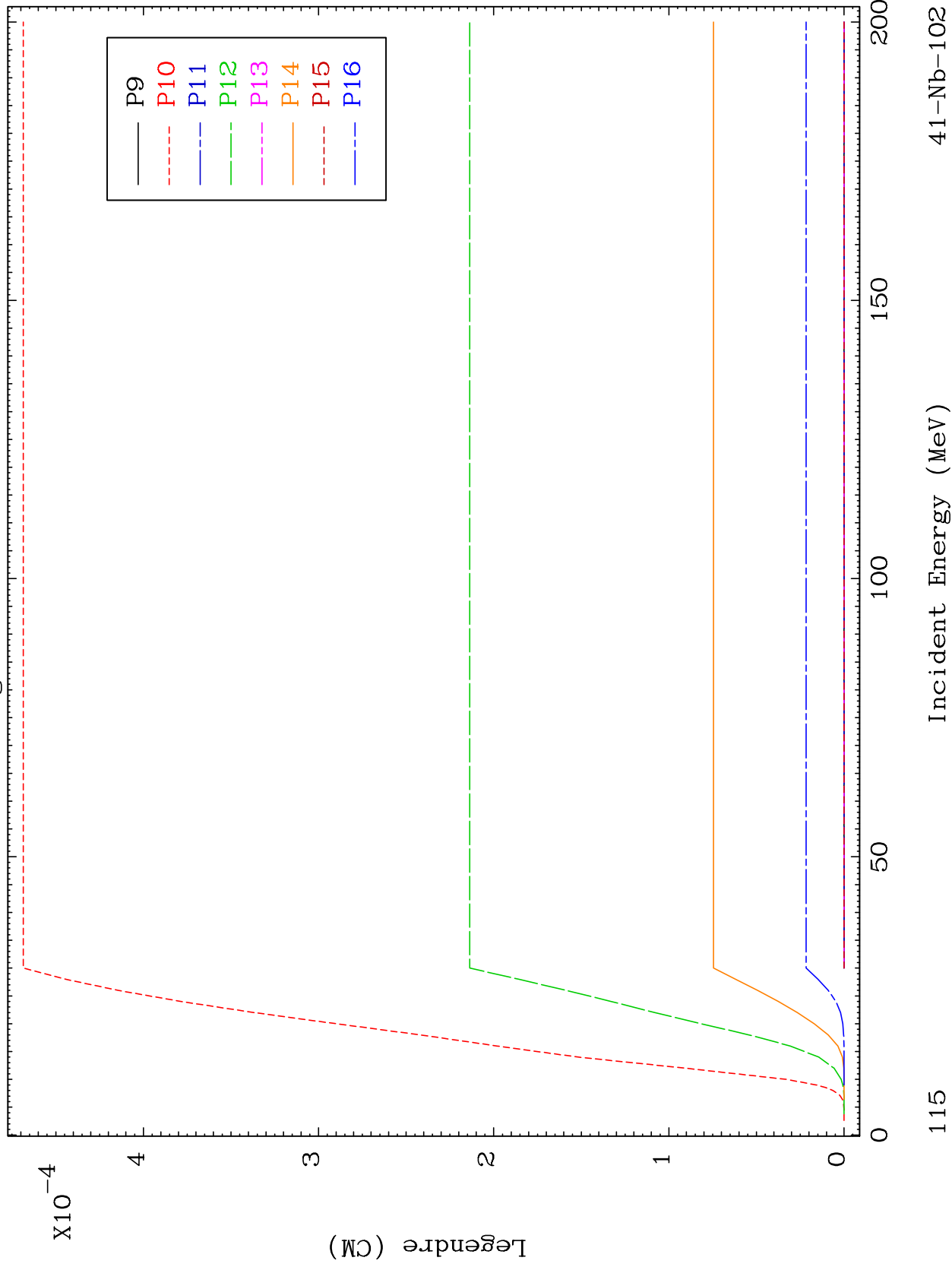
Incident Energy (MeV)

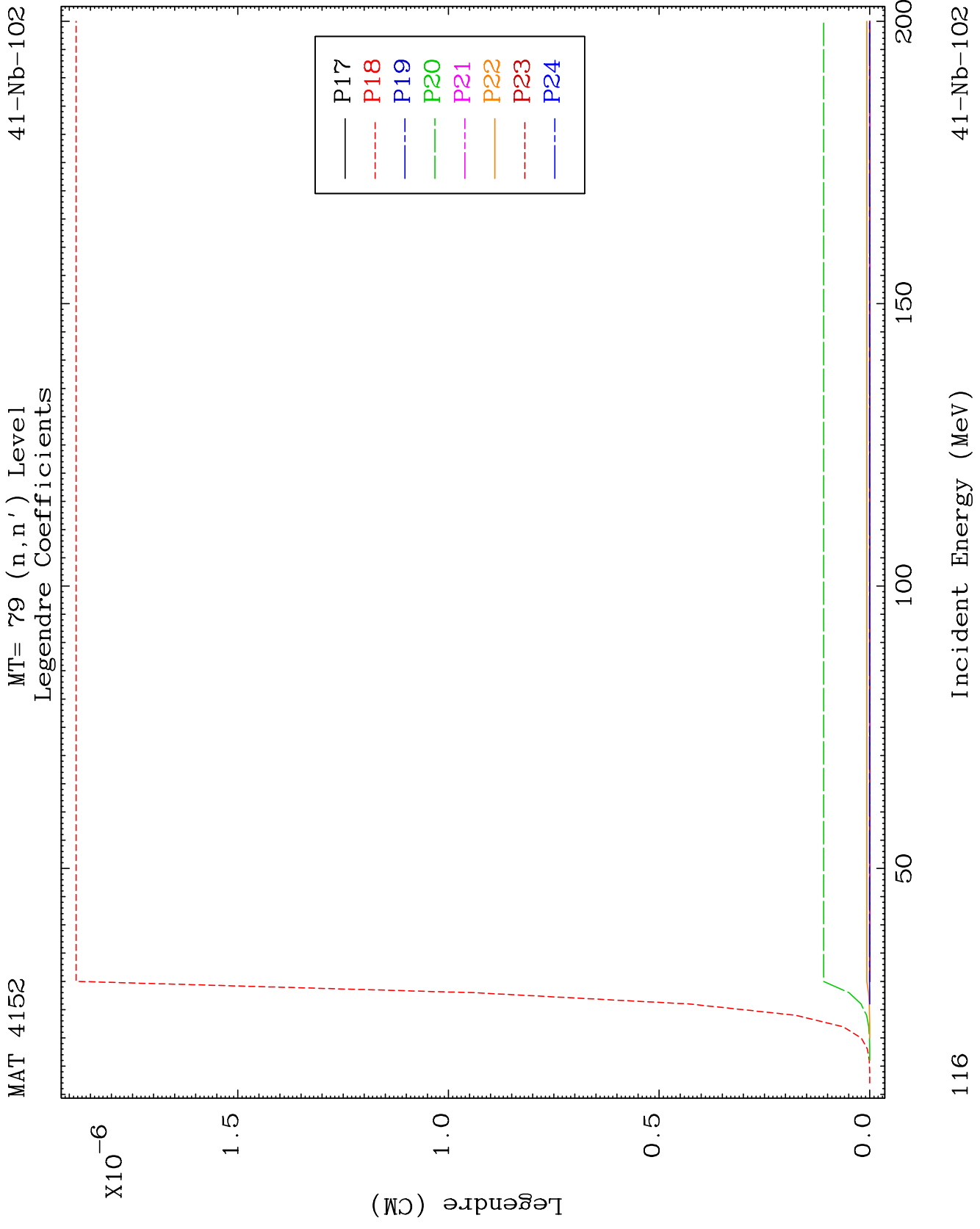
41-Nb-102

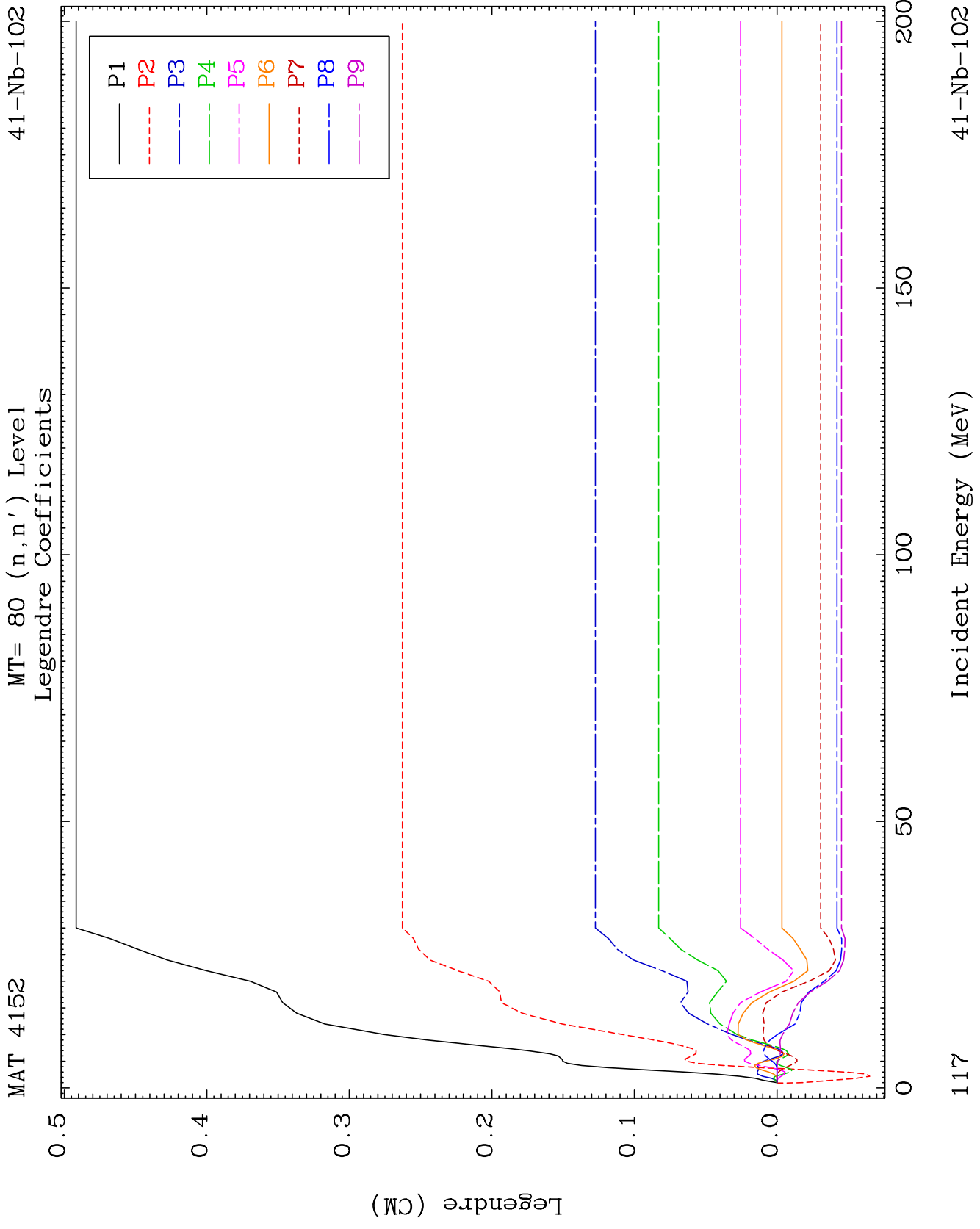
MAT 4152

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

41-Nb-102



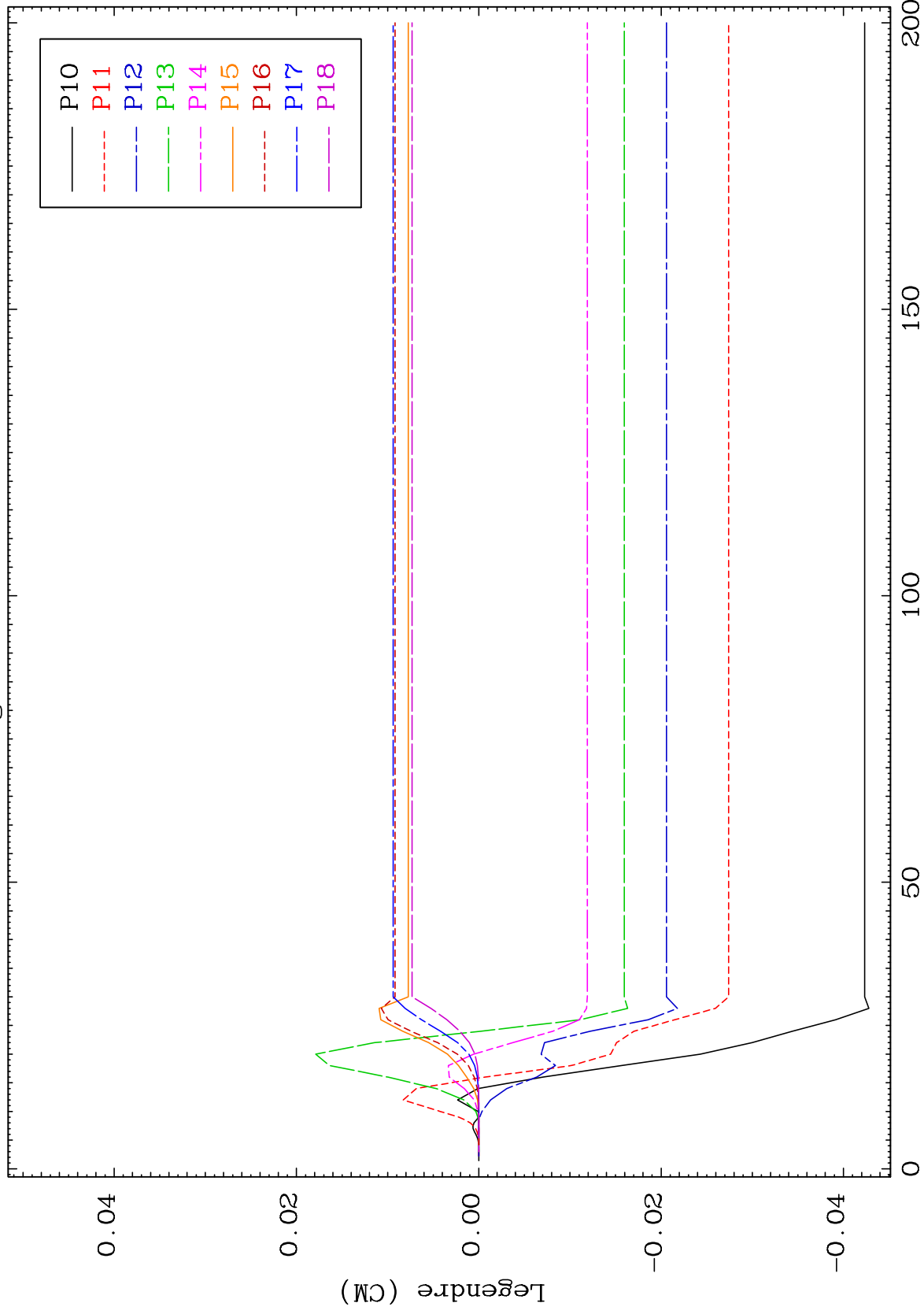




MAT 4152

MT= 80 (n,n') Level
Legendre Coefficients

41-Nb-102



118

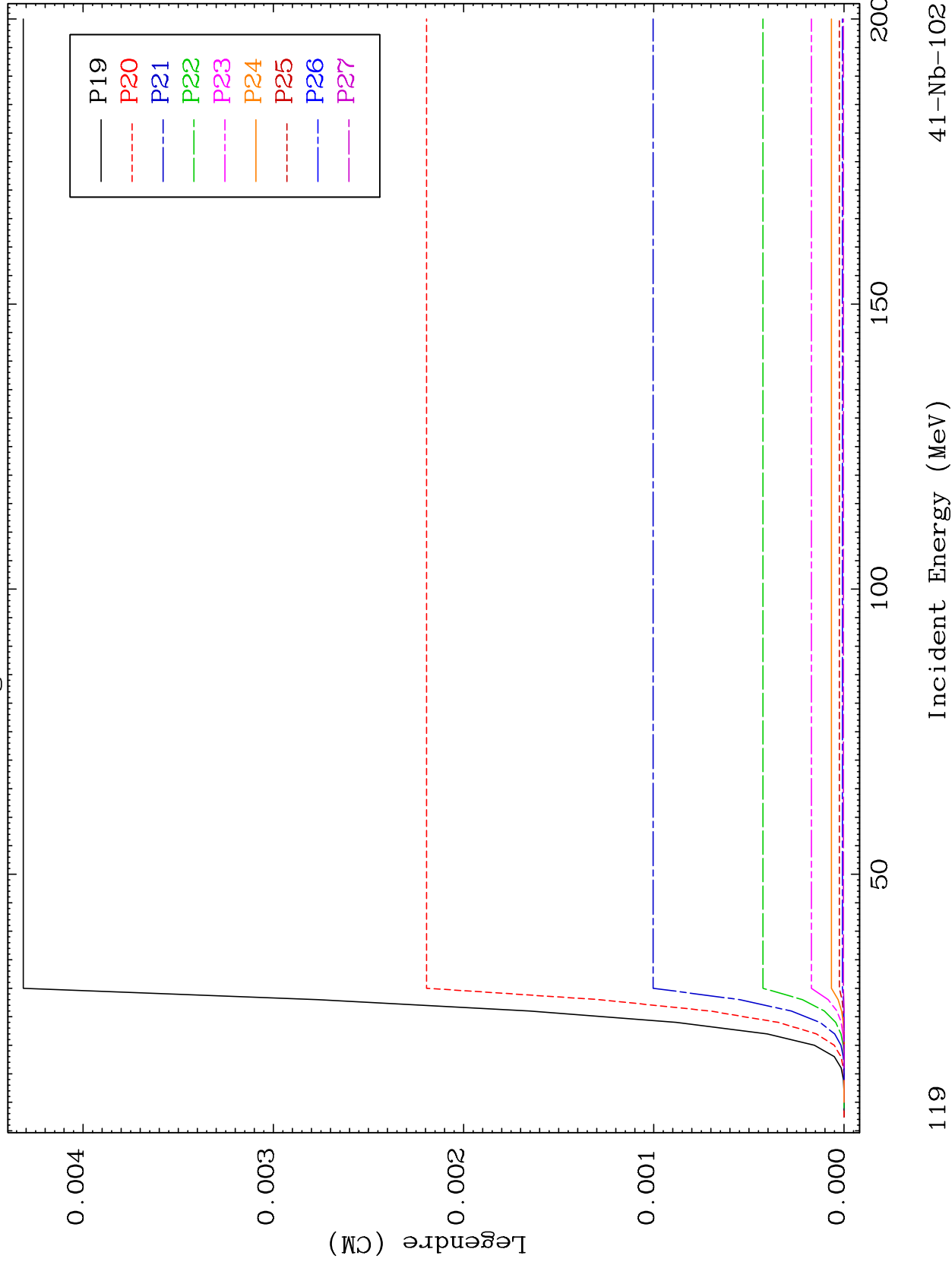
Incident Energy (MeV)

41-Nb-102

MAT 4152

MT= 80 (n,n') Level
Legendre Coefficients

41-Nb-102



119

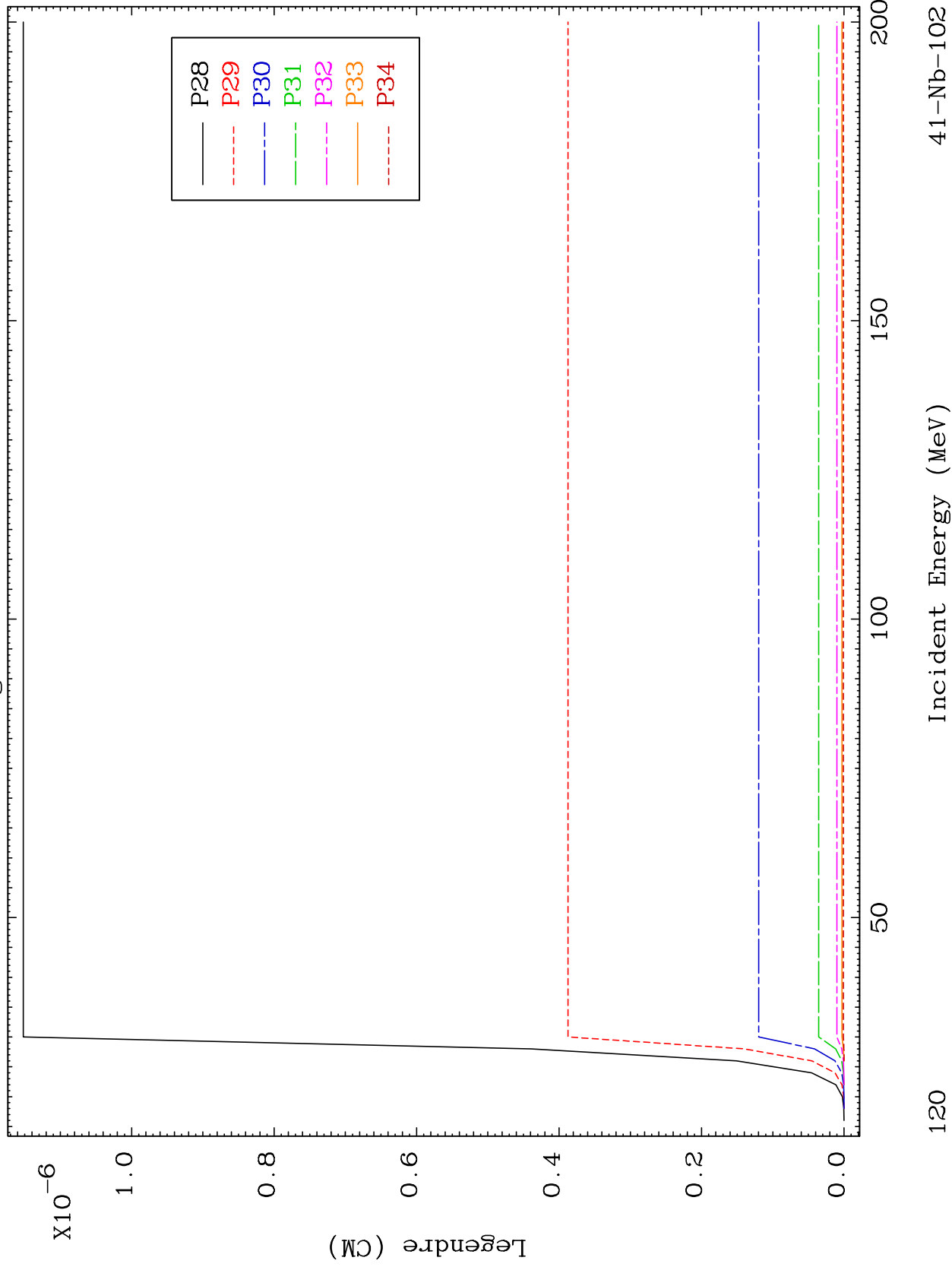
Incident Energy (MeV)

41-Nb-102

MAT 4152

MT= 80 (n,n') Level
Legendre Coefficients

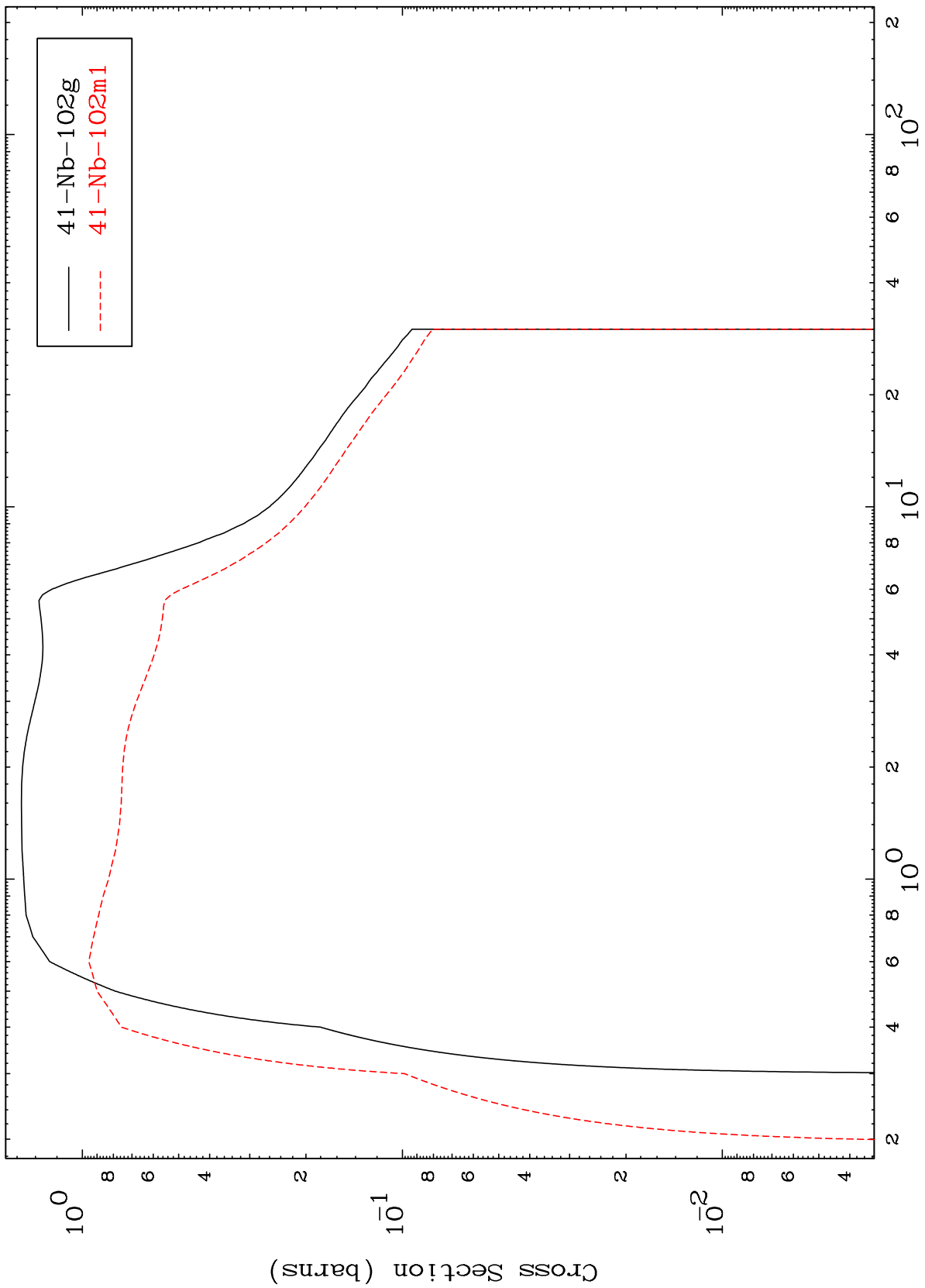
41-Nb-102



MAT 4152

41-Nb-102

Inelastic
Radionuclide Production Cross Section



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

121

Incident Energy (MeV)

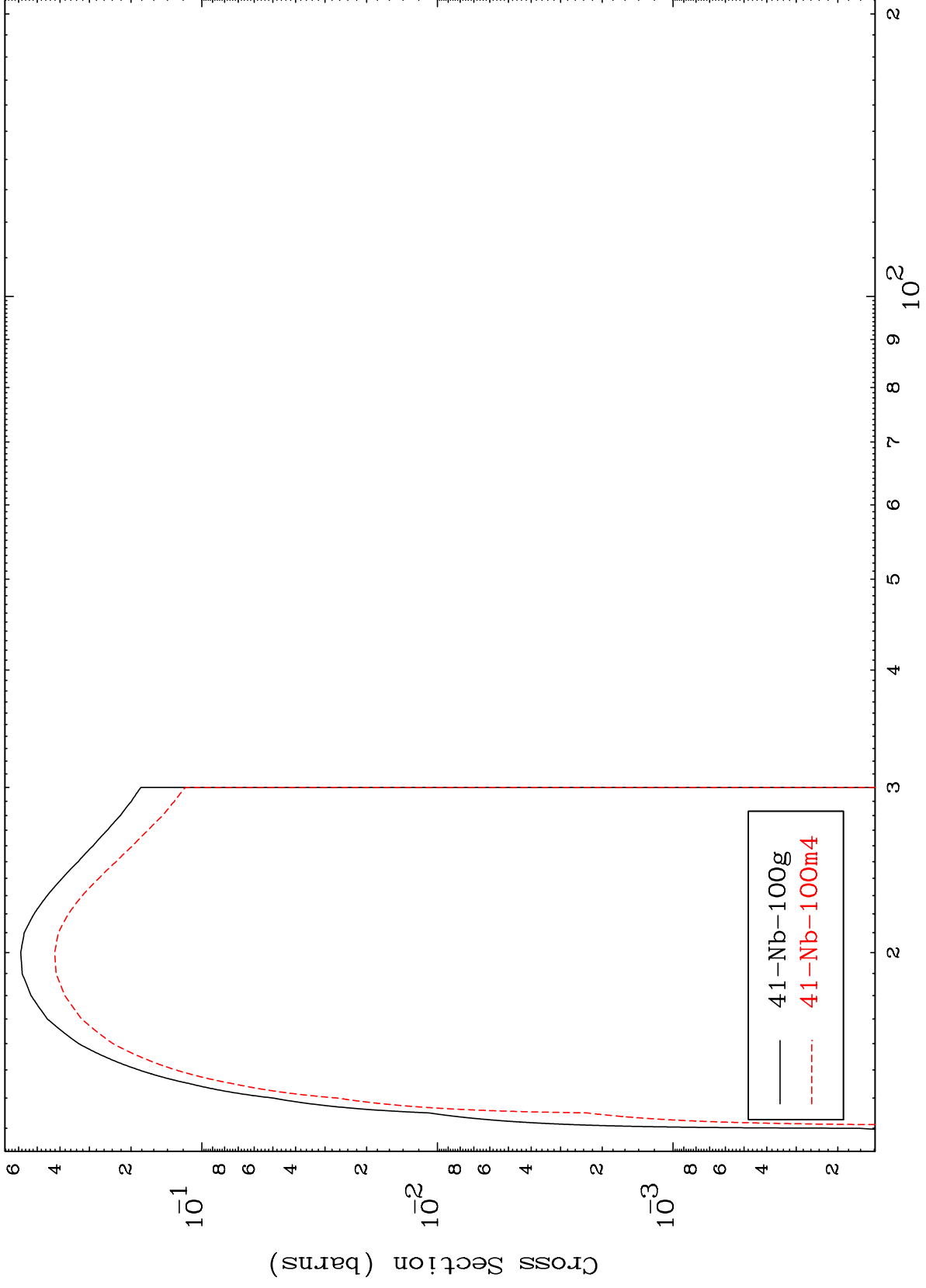
41-Nb-102

MAT 4152

(n,3n)

41-Nb-102

Radionuclide Production Cross Section



122

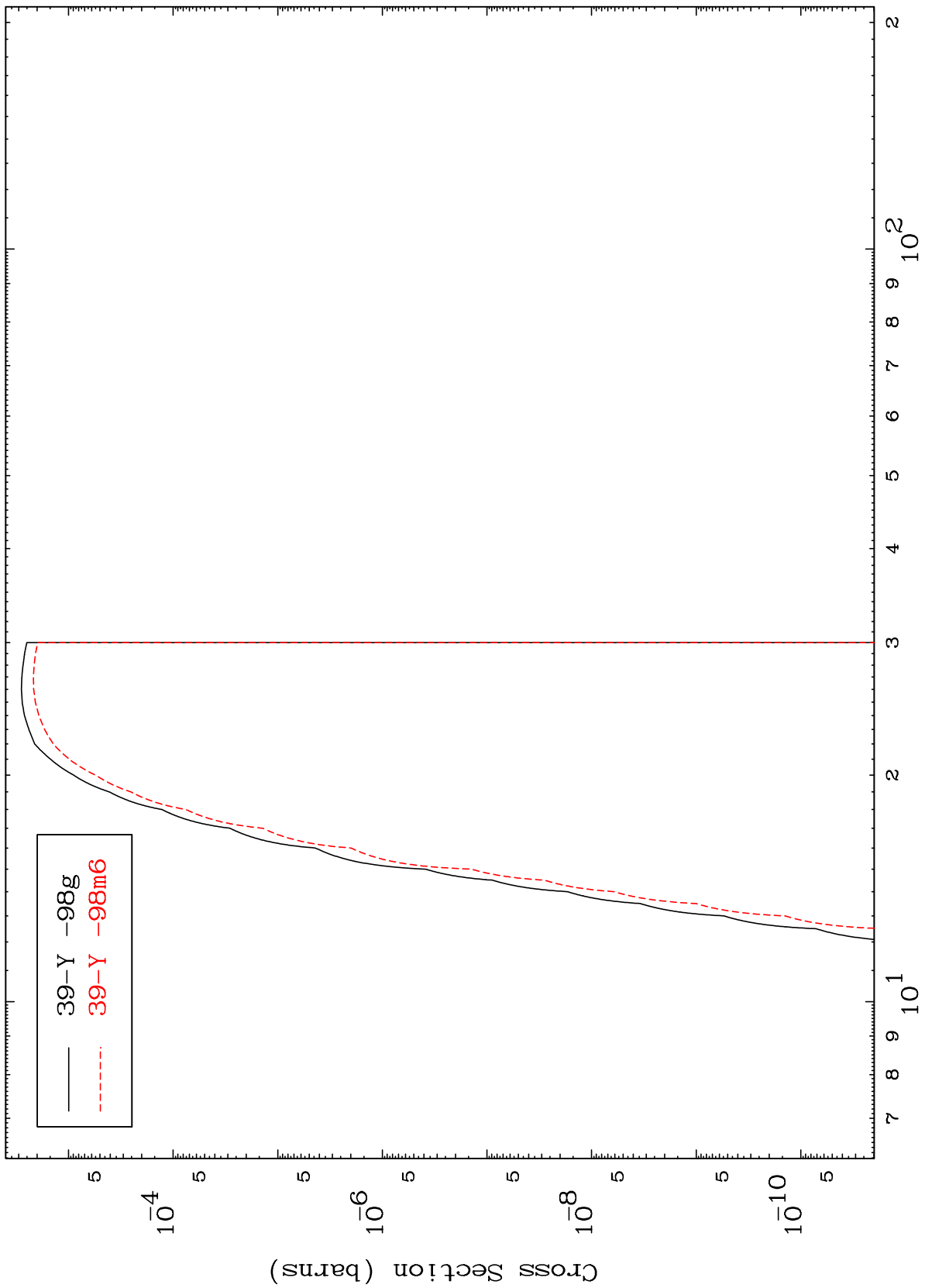
Incident Energy (MeV)

41-Nb-102

MAT 4152

41-Nb-102

$(n, n') \alpha$
Radionuclide Production Cross Section



123

Incident Energy (MeV)

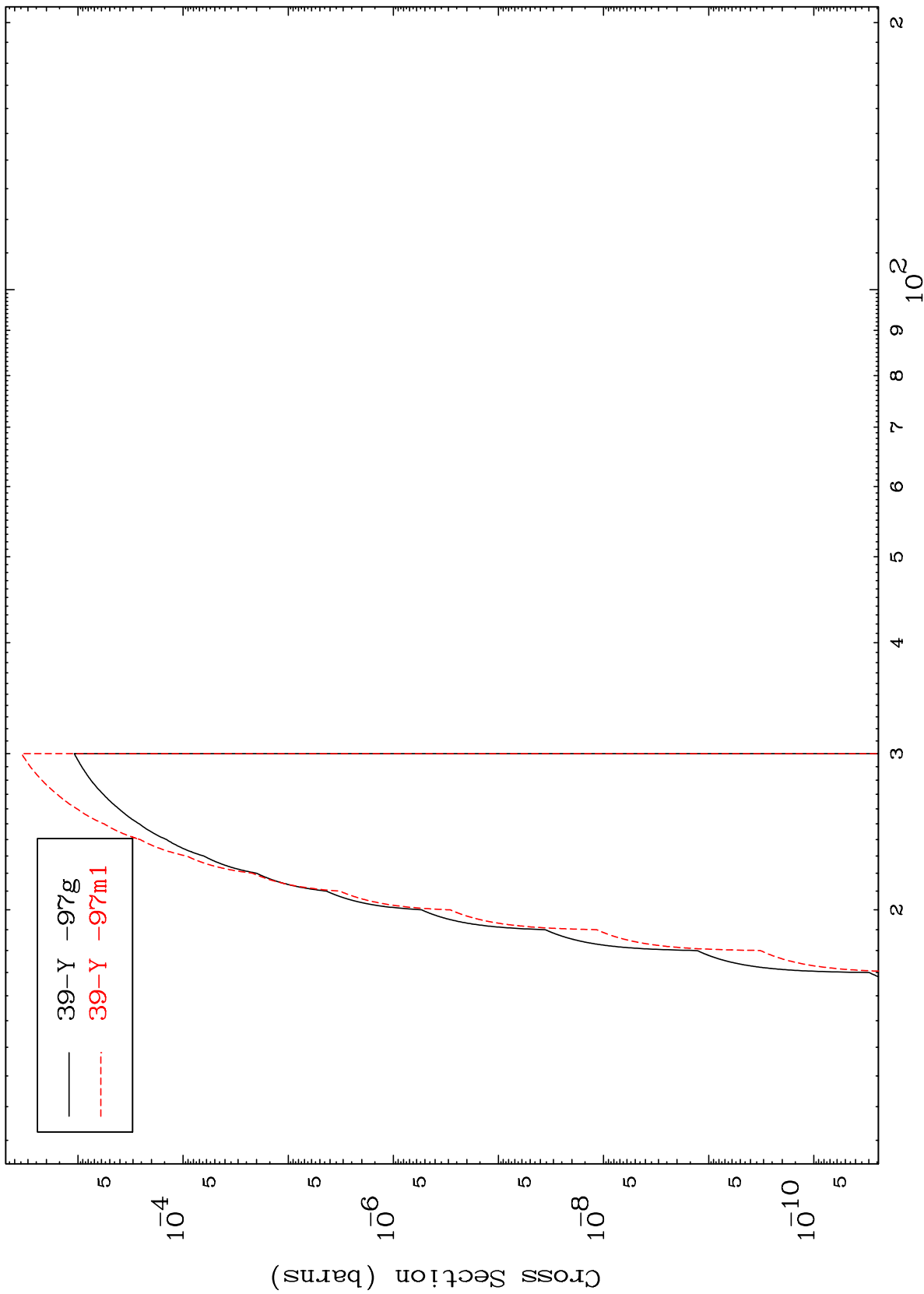
41-Nb-102

MAT 4152

(n,2n) α

41-Nb-102

Radionuclide Production Cross Section



124

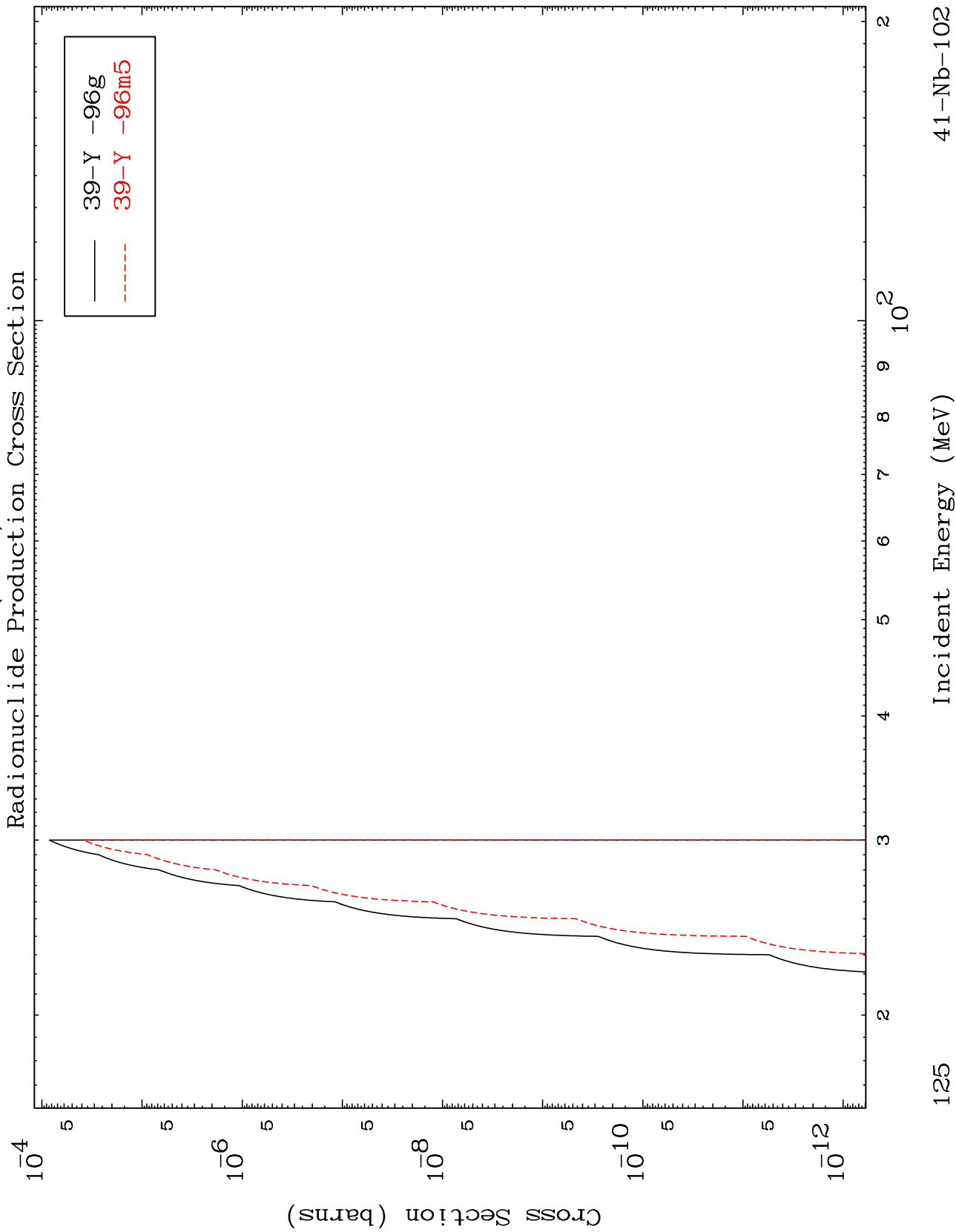
Incident Energy (MeV)

41-Nb-102

MAT 4152

(n,3n) α

41-Nb-102



125

Incident Energy (MeV)

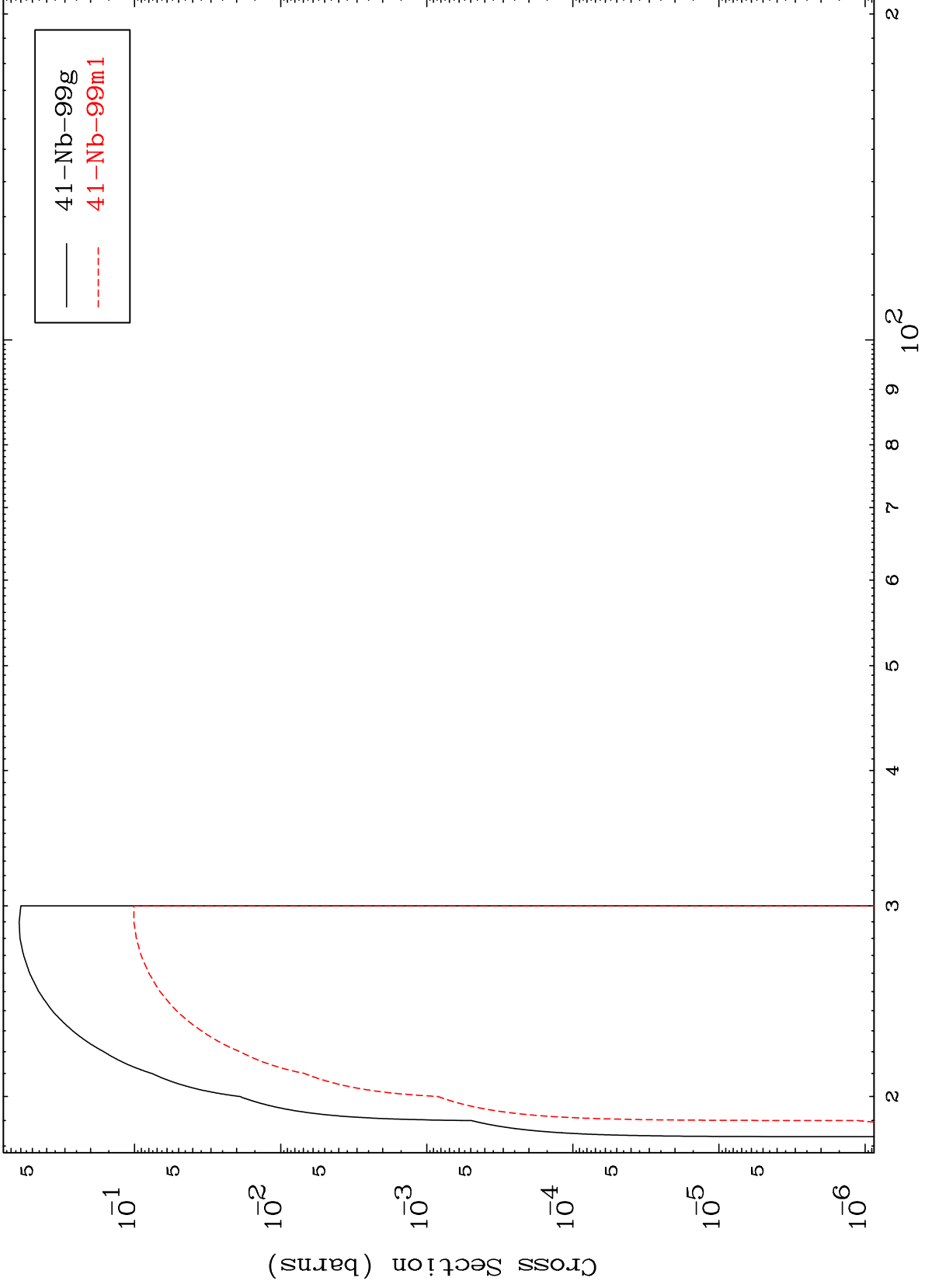
41-Nb-102

MAT 4152

(n,4n)

41-Nb-102

Radionuclide Production Cross Section



126

Incident Energy (MeV)

41-Nb-102

Radionuclide Production Cross Section

