

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

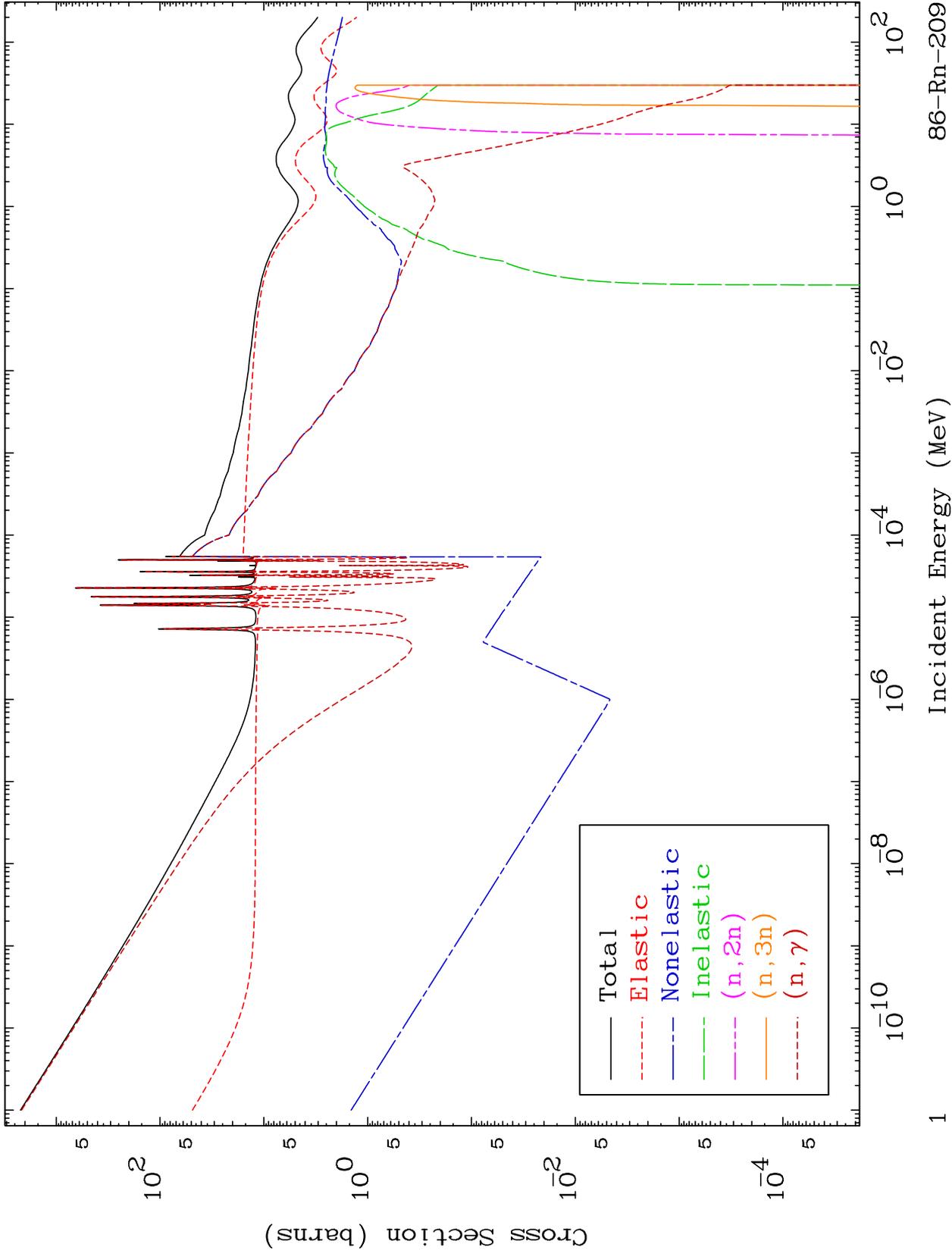
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8619

Neutron Major
293 Kelvin Cross Sections

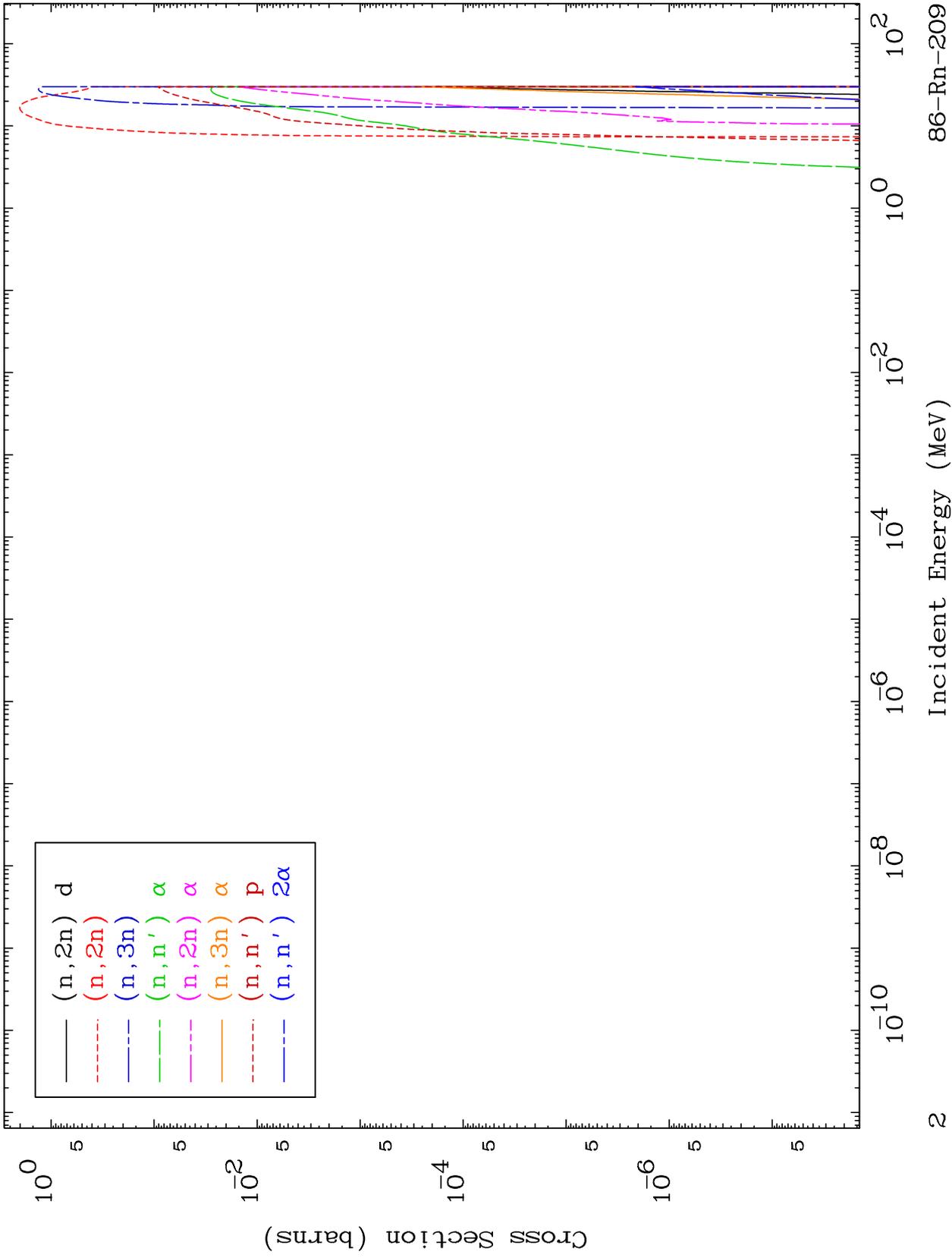
86-Rn-209



MAT 8619

Neutron Absorption
293 Kelvin Cross Sections

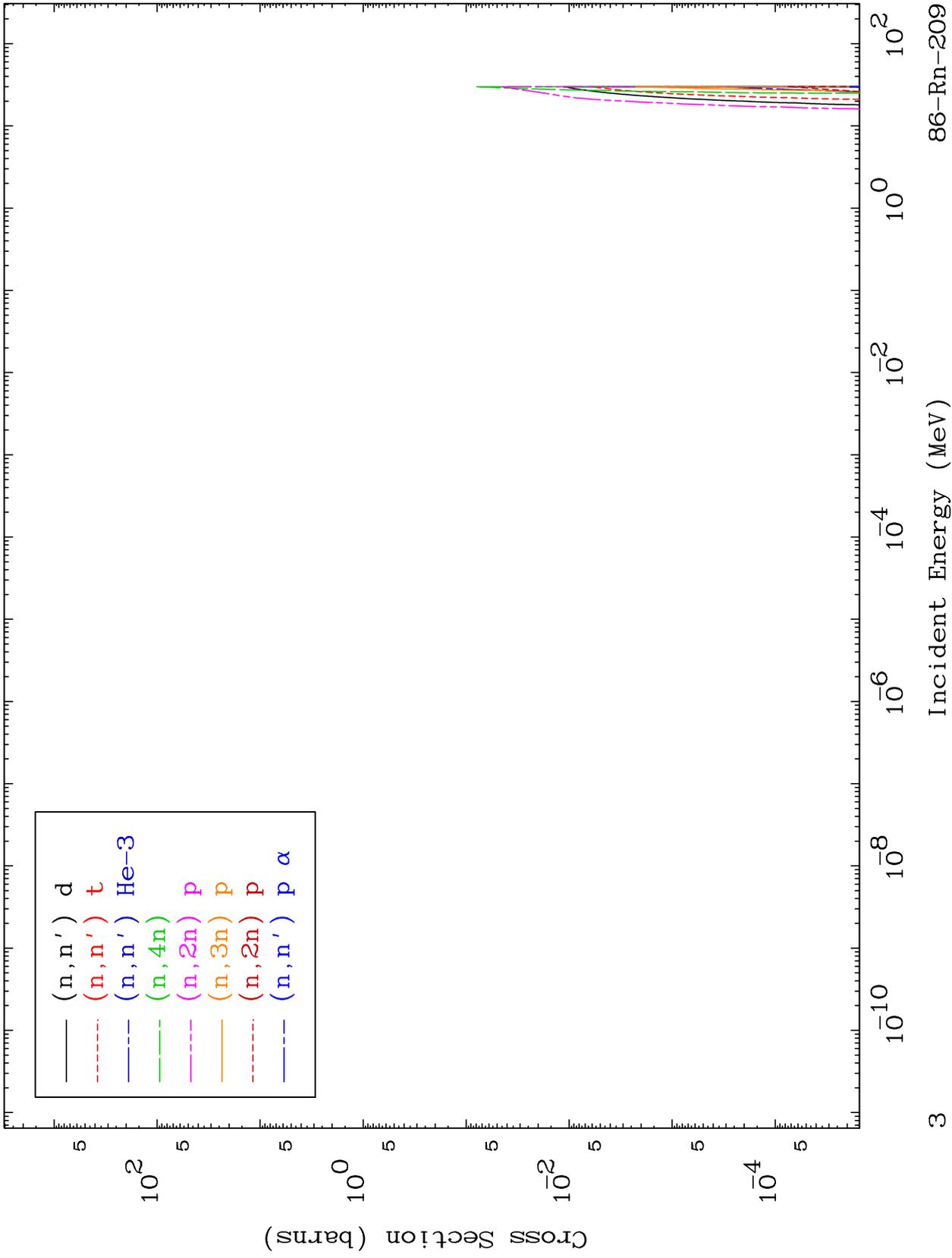
86-Rn-209

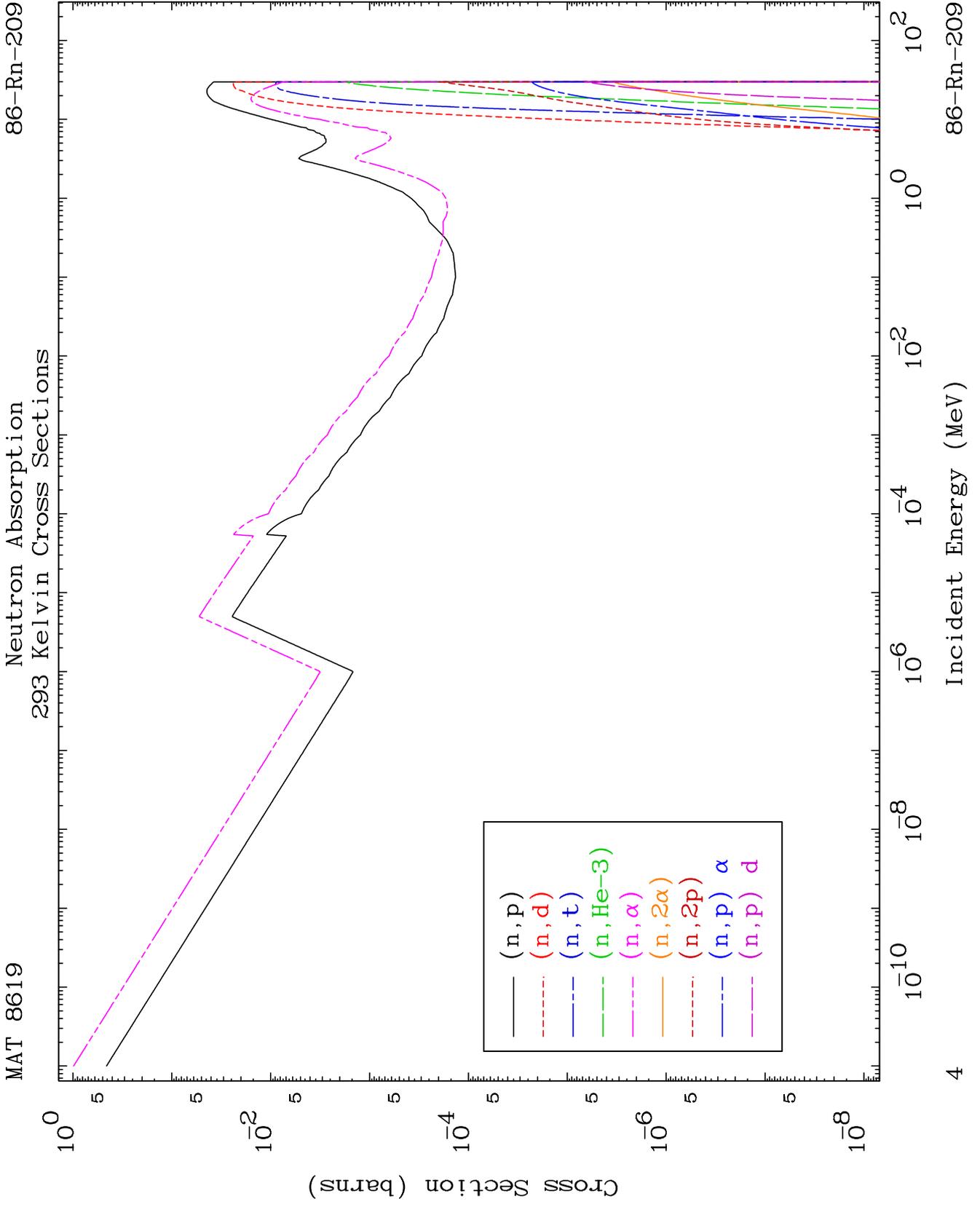


MAT 8619

Neutron Absorption
293 Kelvin Cross Sections

86-Rn-209

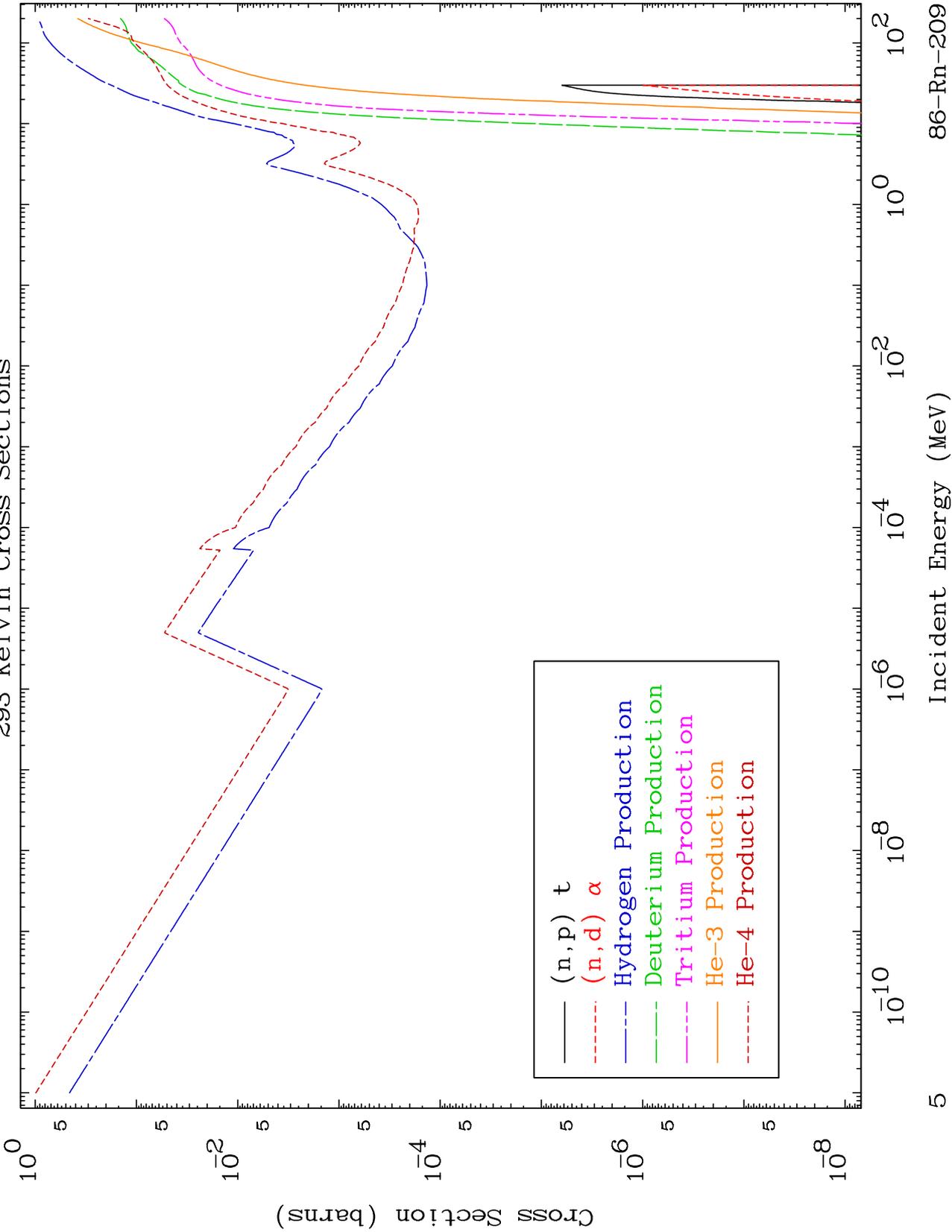




MAT 8619

Neutron Absorption
293 Kelvin Cross Sections

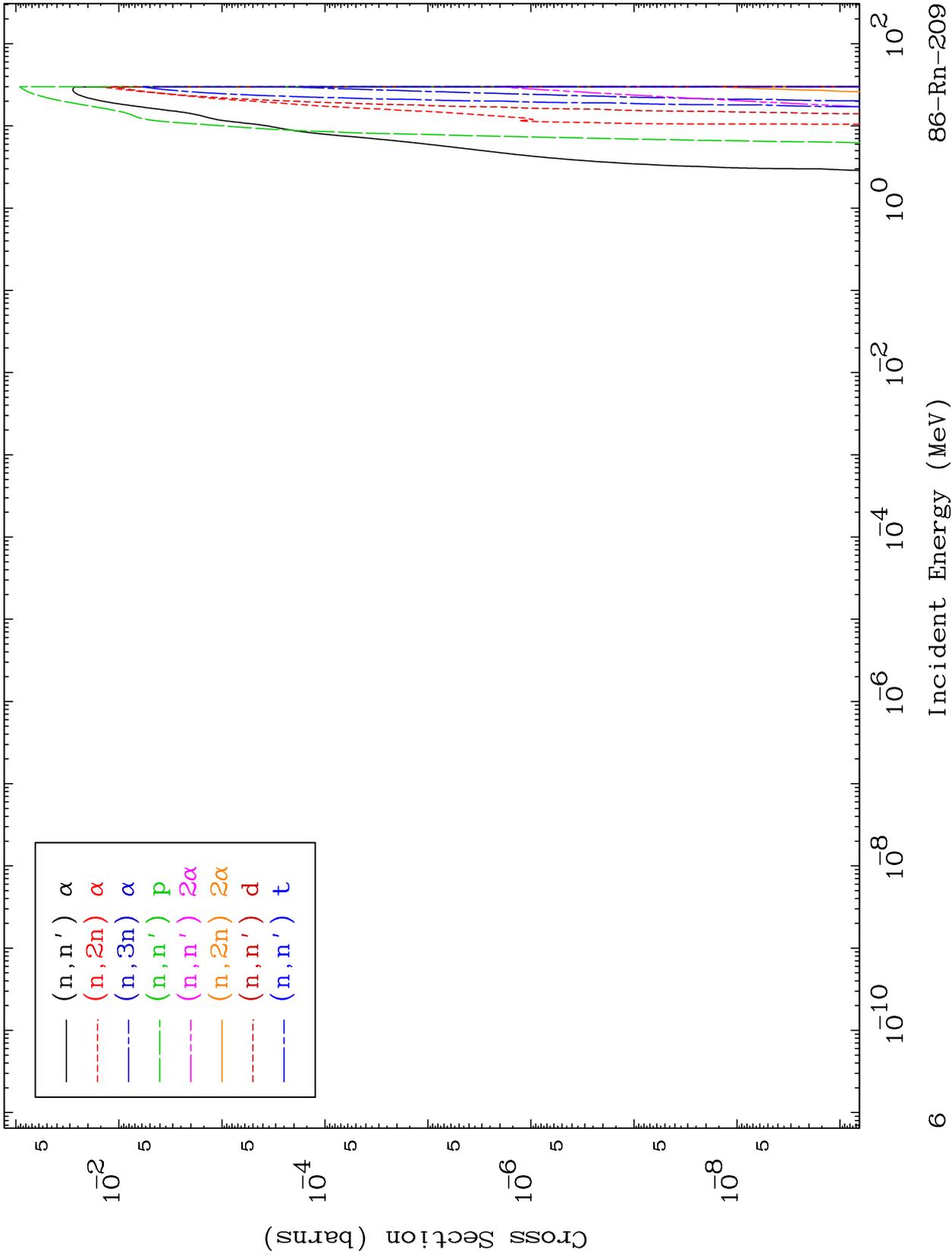
86-Rn-209



MAT 8619

Charged Particle
293 Kelvin Cross Sections

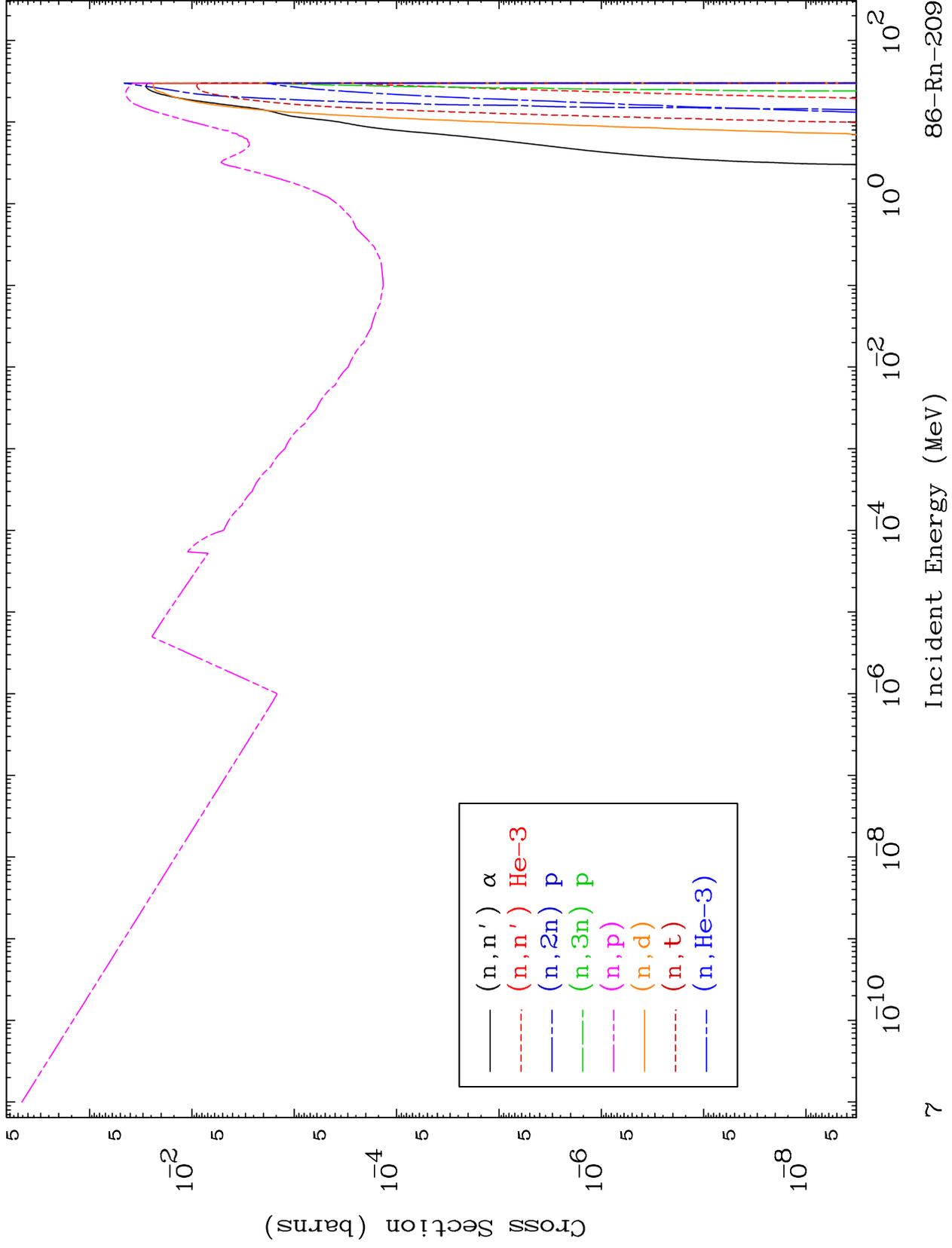
86-Rn-209



MAT 8619

Charged Particle
293 Kelvin Cross Sections

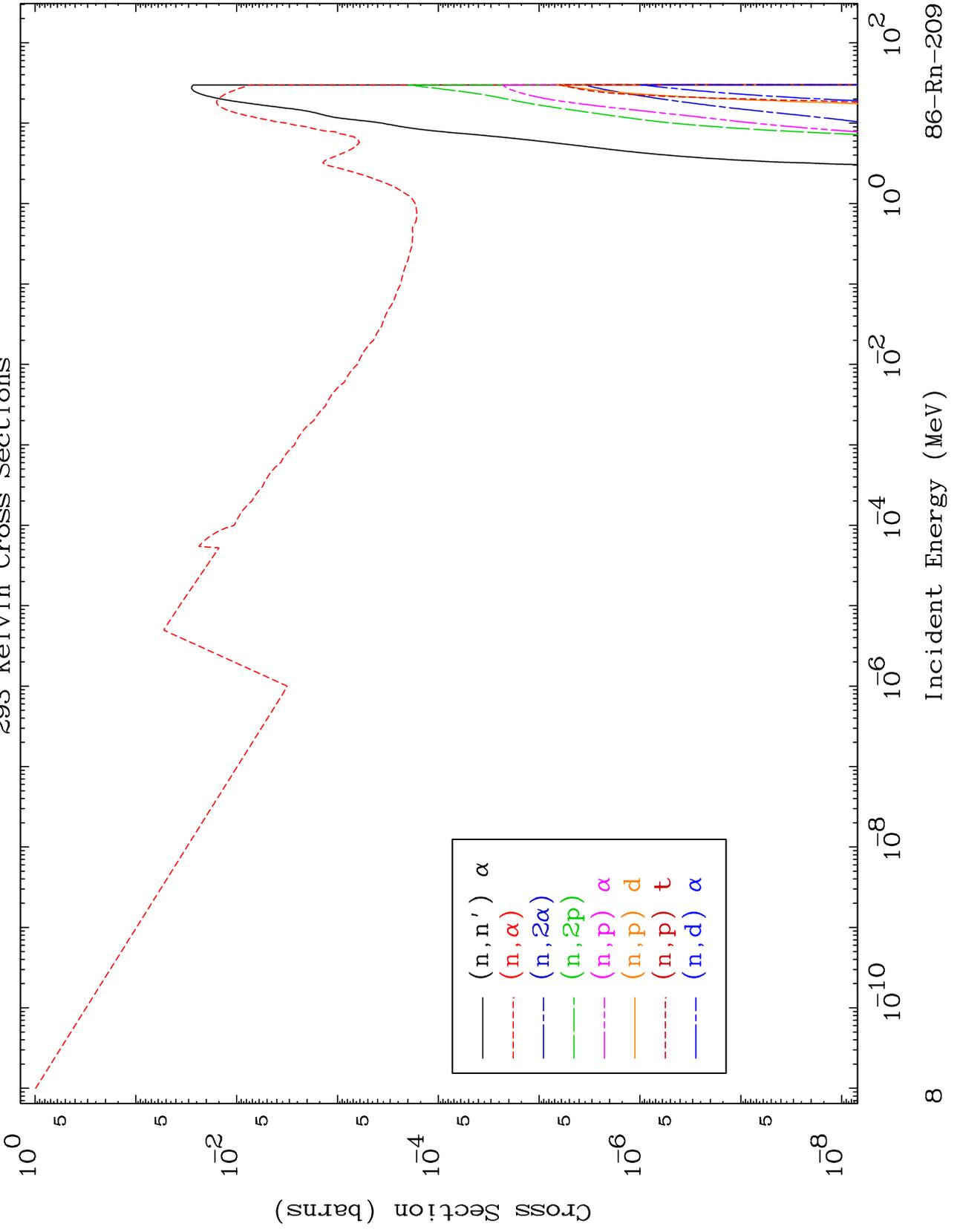
86-Rn-209



MAT 8619

Charged Particle
293 Kelvin Cross Sections

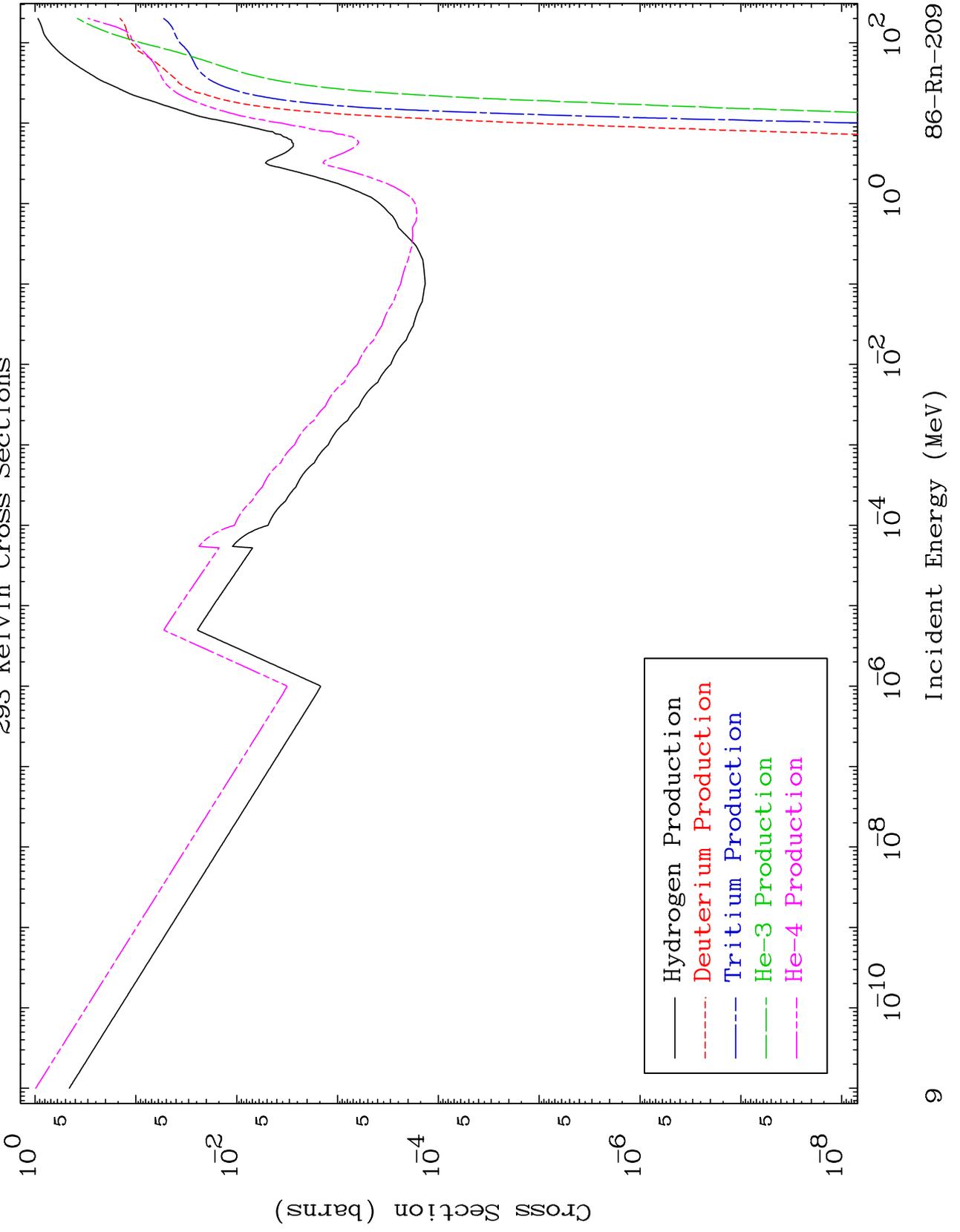
86-Rn-209



MAT 8619

Particle Production
293 Kelvin Cross Sections

86-Rn-209

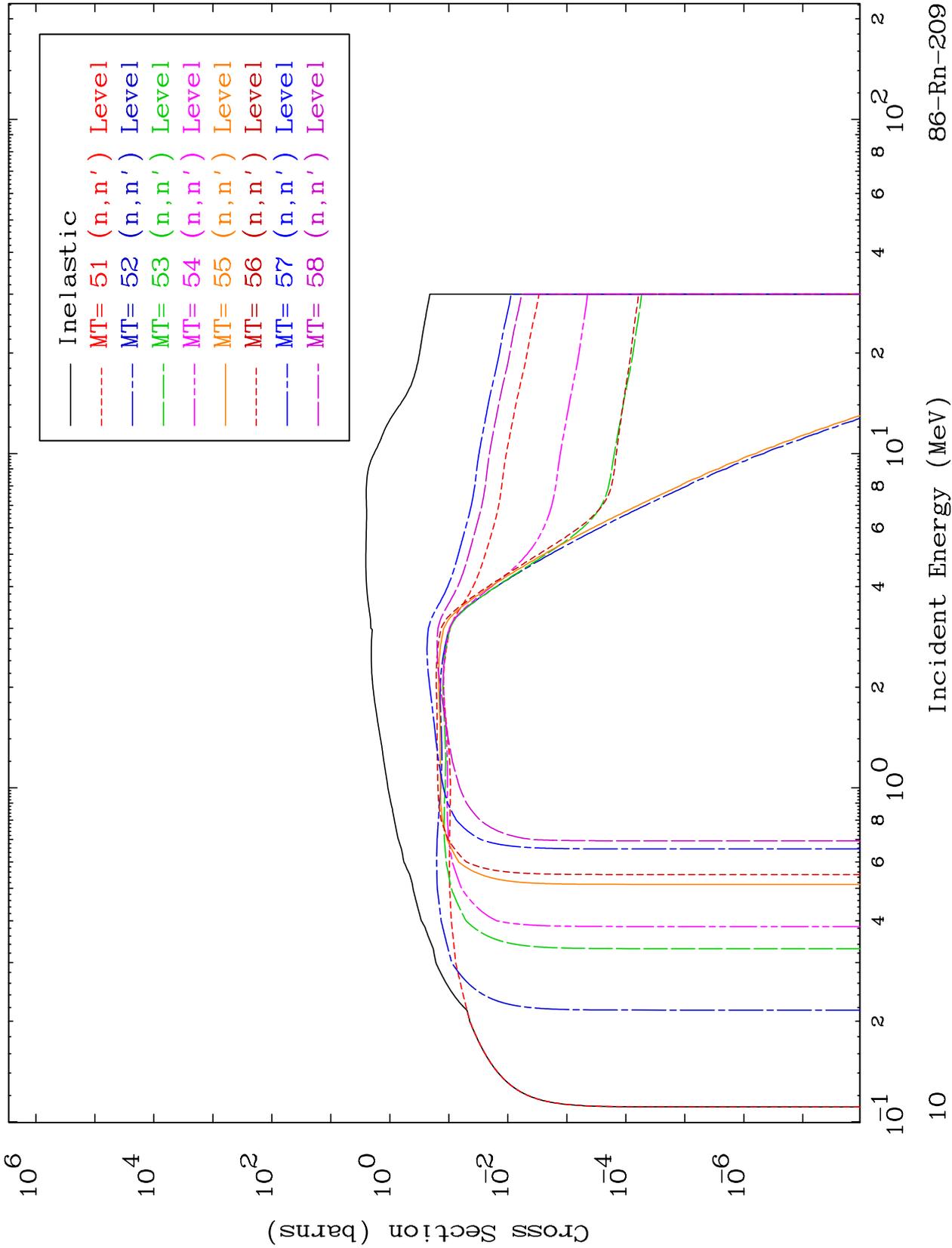


MAT 8619

(n,n') Levels

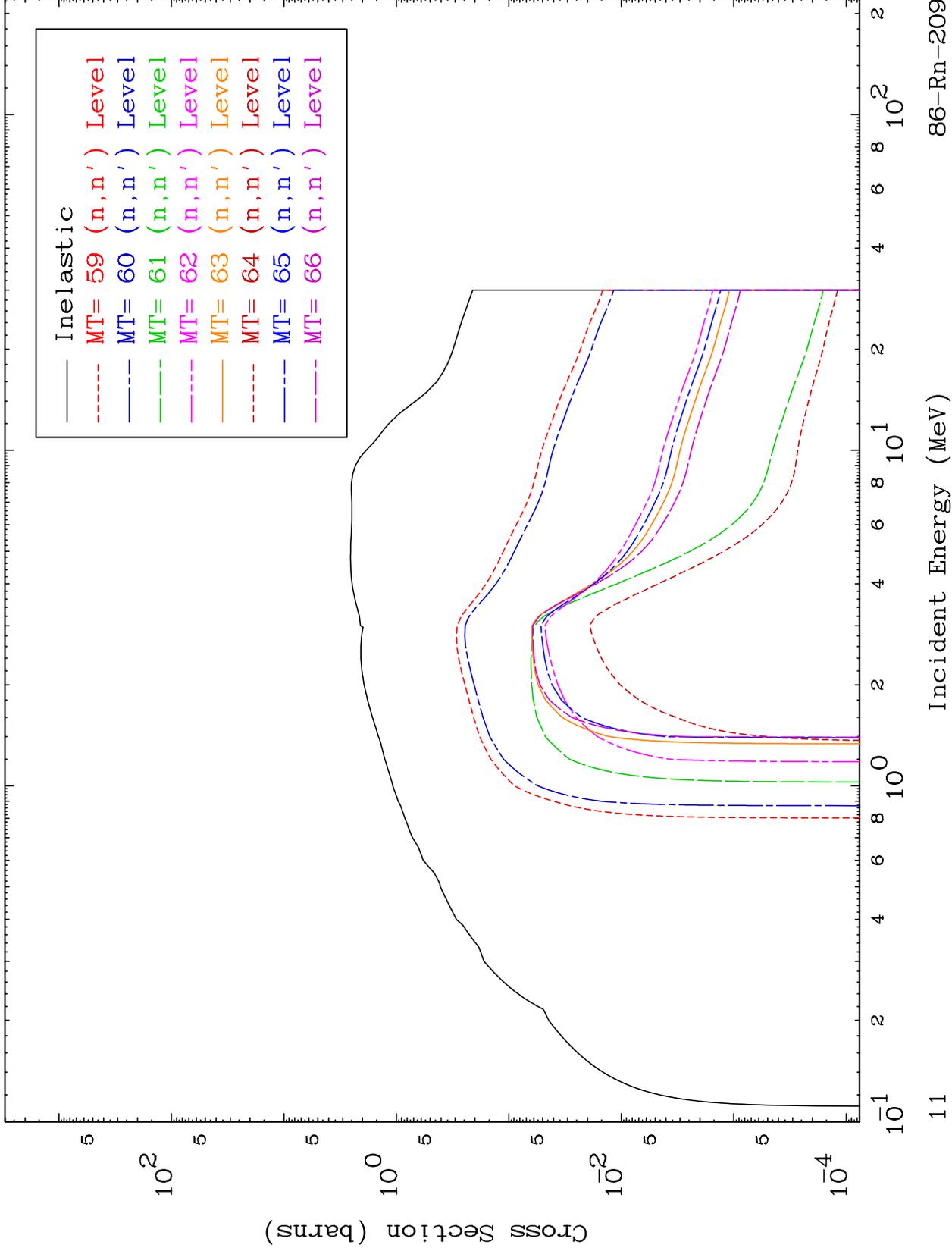
86-Rn-209

293 Kelvin Cross Sections



86-Rn-209

Incident Energy (MeV)

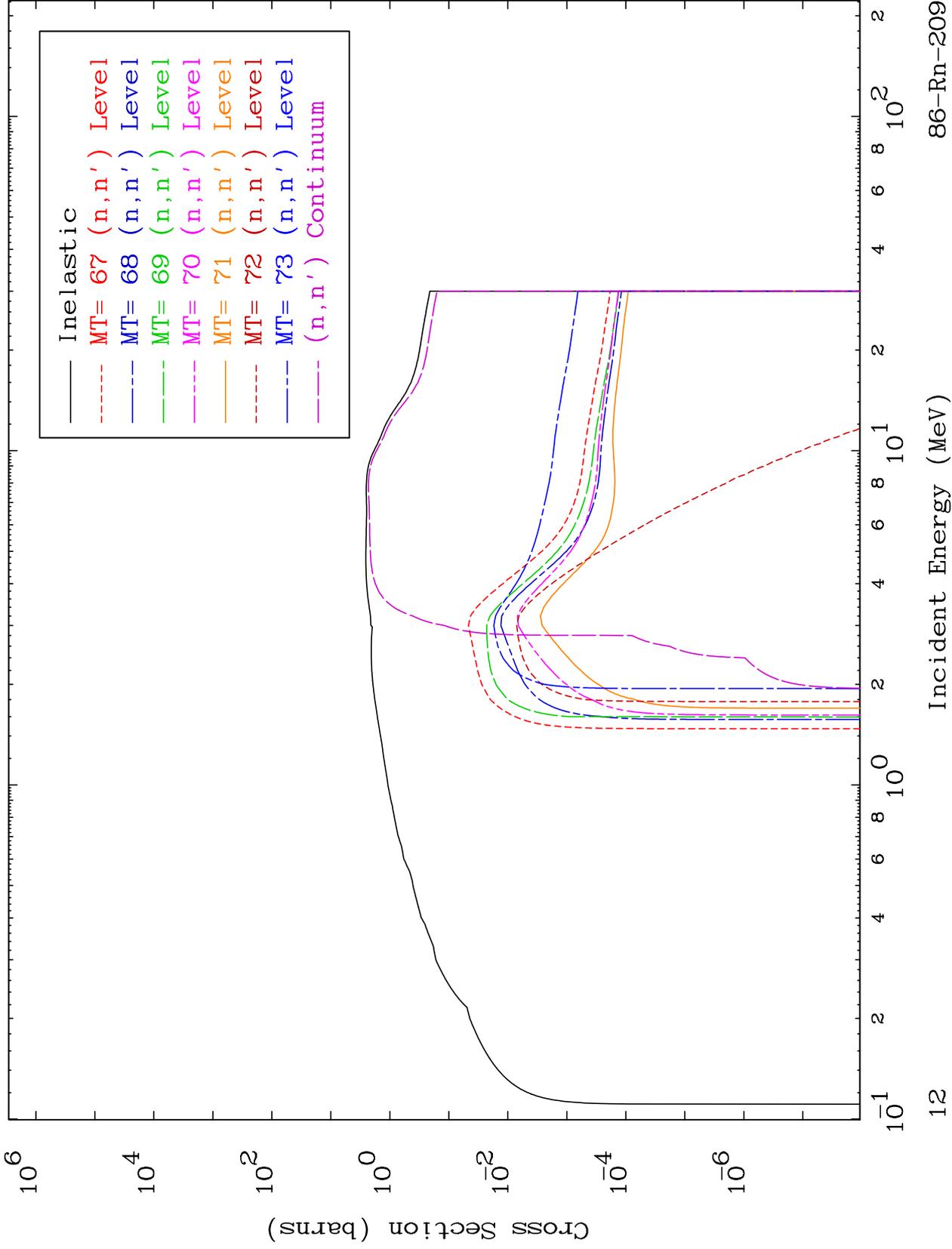


MAT 8619

(n,n') Levels

86-Rn-209

293 Kelvin Cross Sections



86-Rn-209

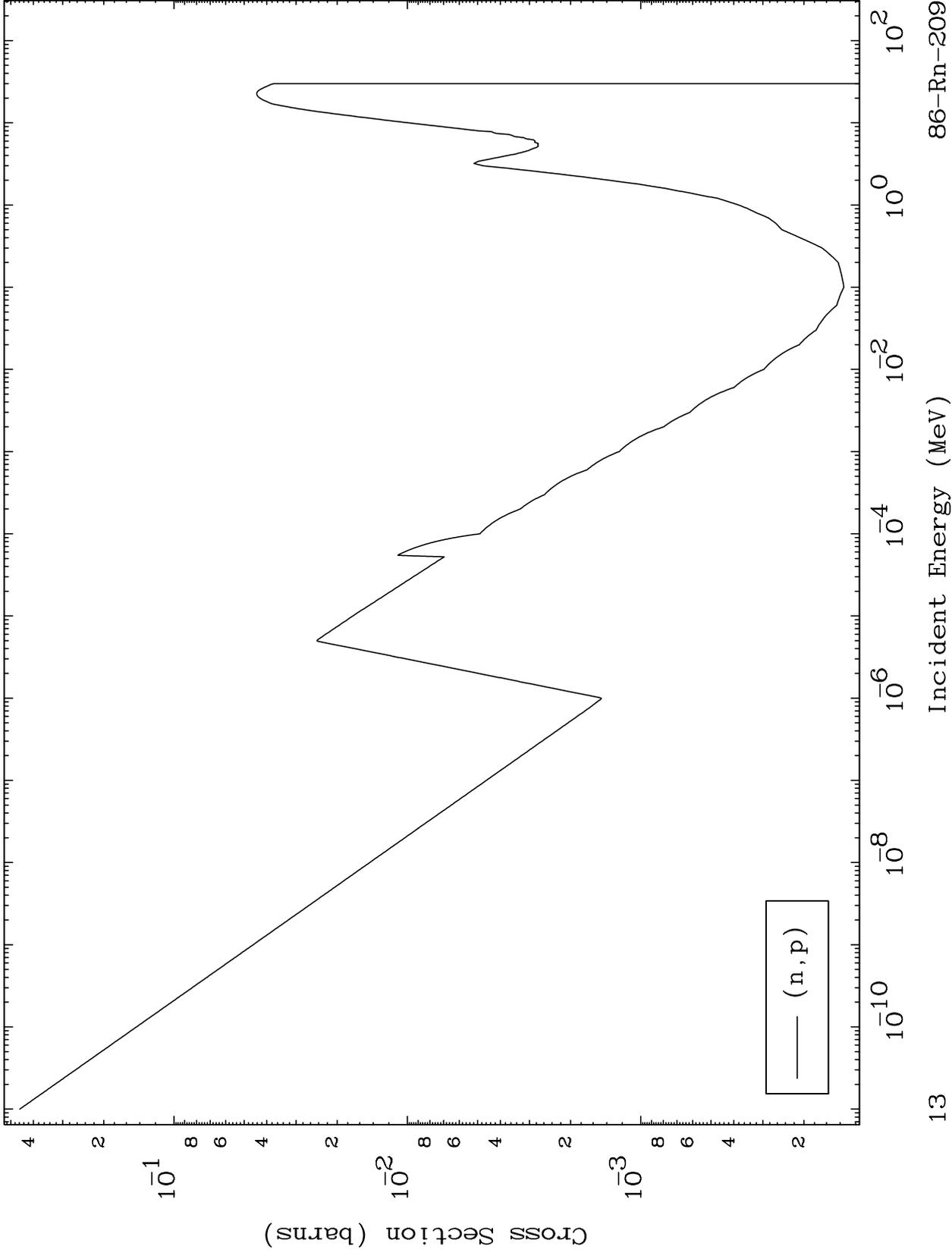
Incident Energy (MeV)

12

MAT 8619

(n,p) Levels
293 Kelvin Cross Sections

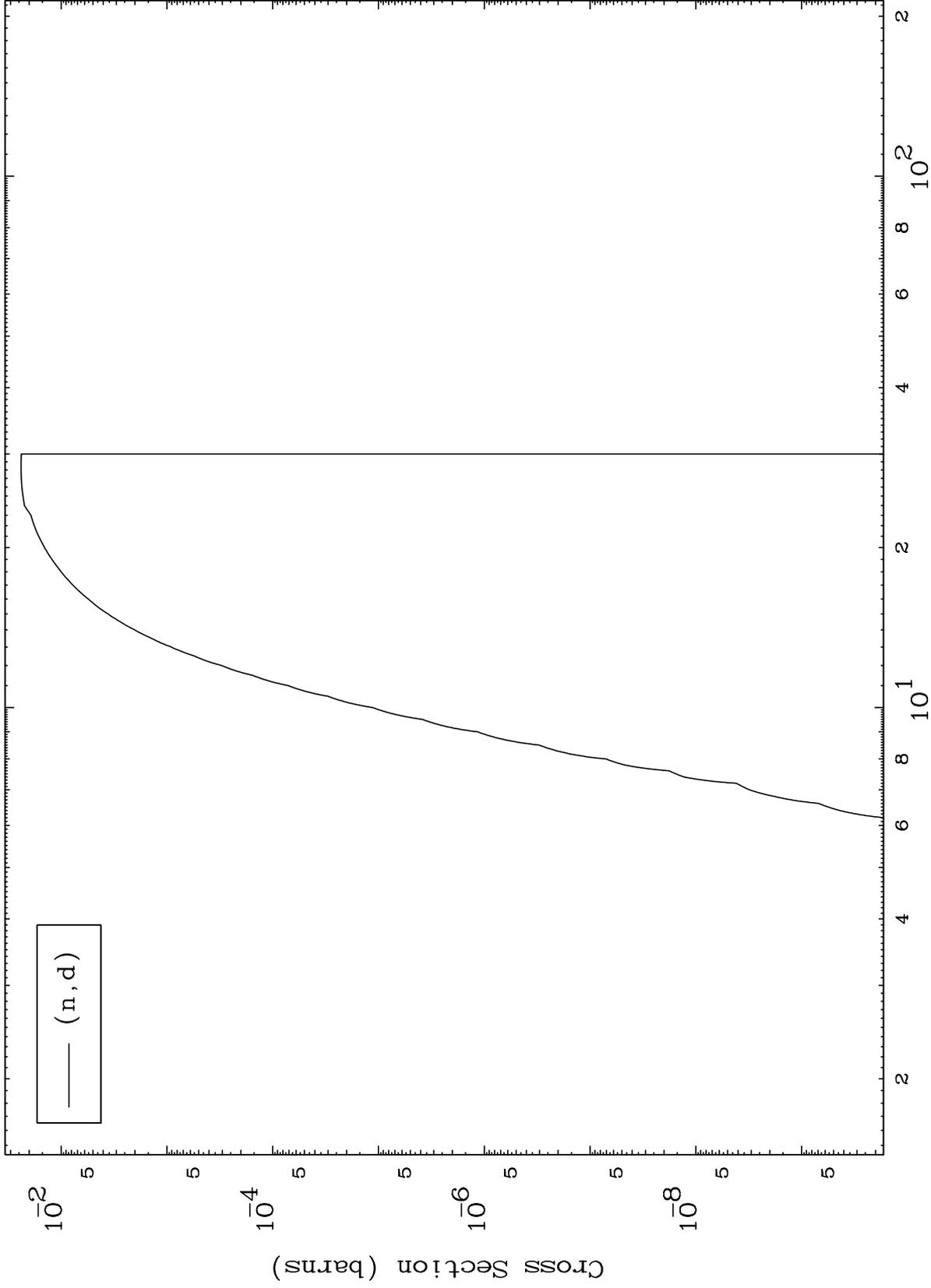
86-Rn-209



MAT 8619

(n,d) Levels
293 Kelvin Cross Sections

86-Rn-209



14

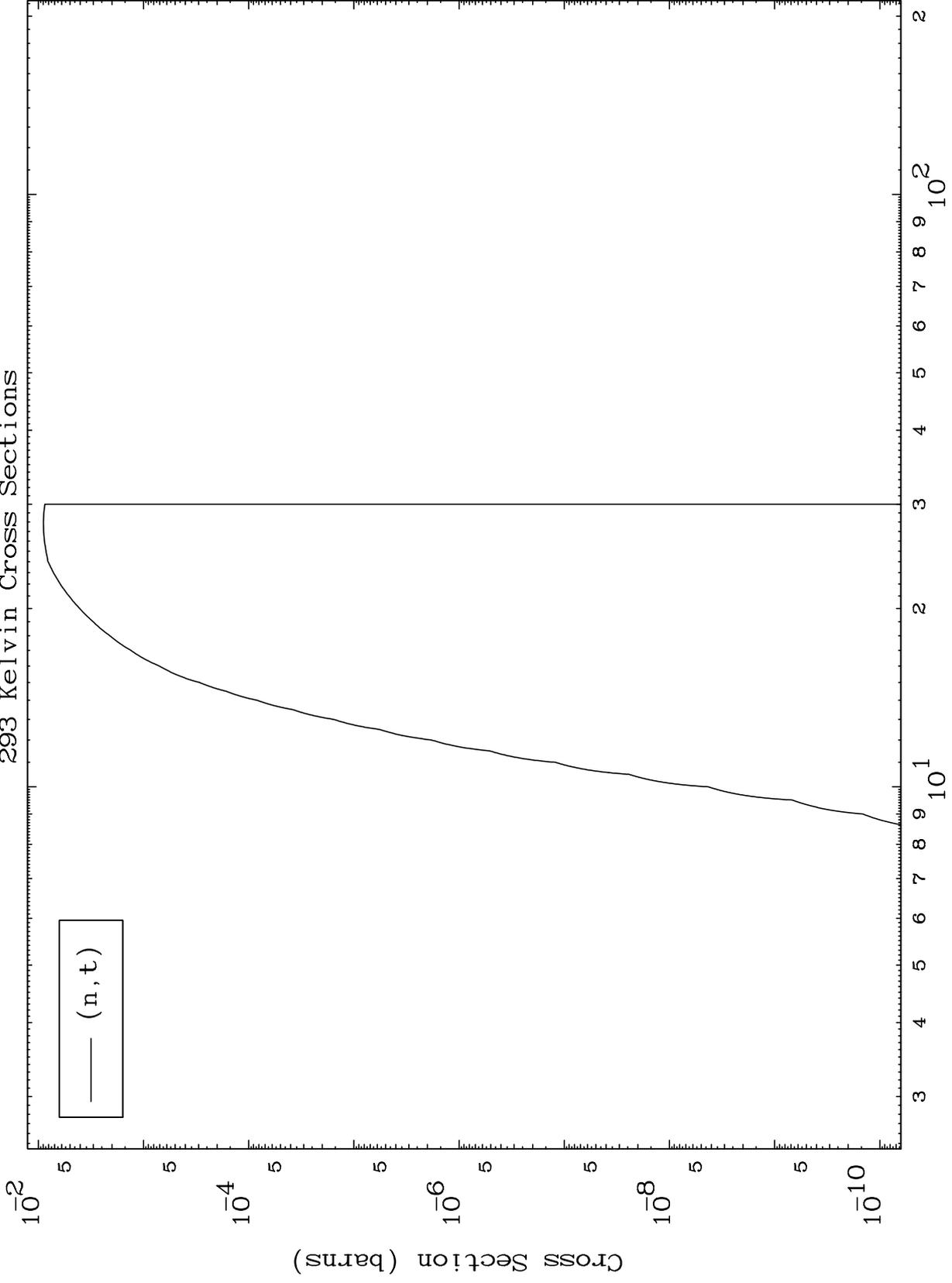
Incident Energy (MeV)

86-Rn-209

MAT 8619

(n,t) Levels
293 Kelvin Cross Sections

86-Rn-209



15

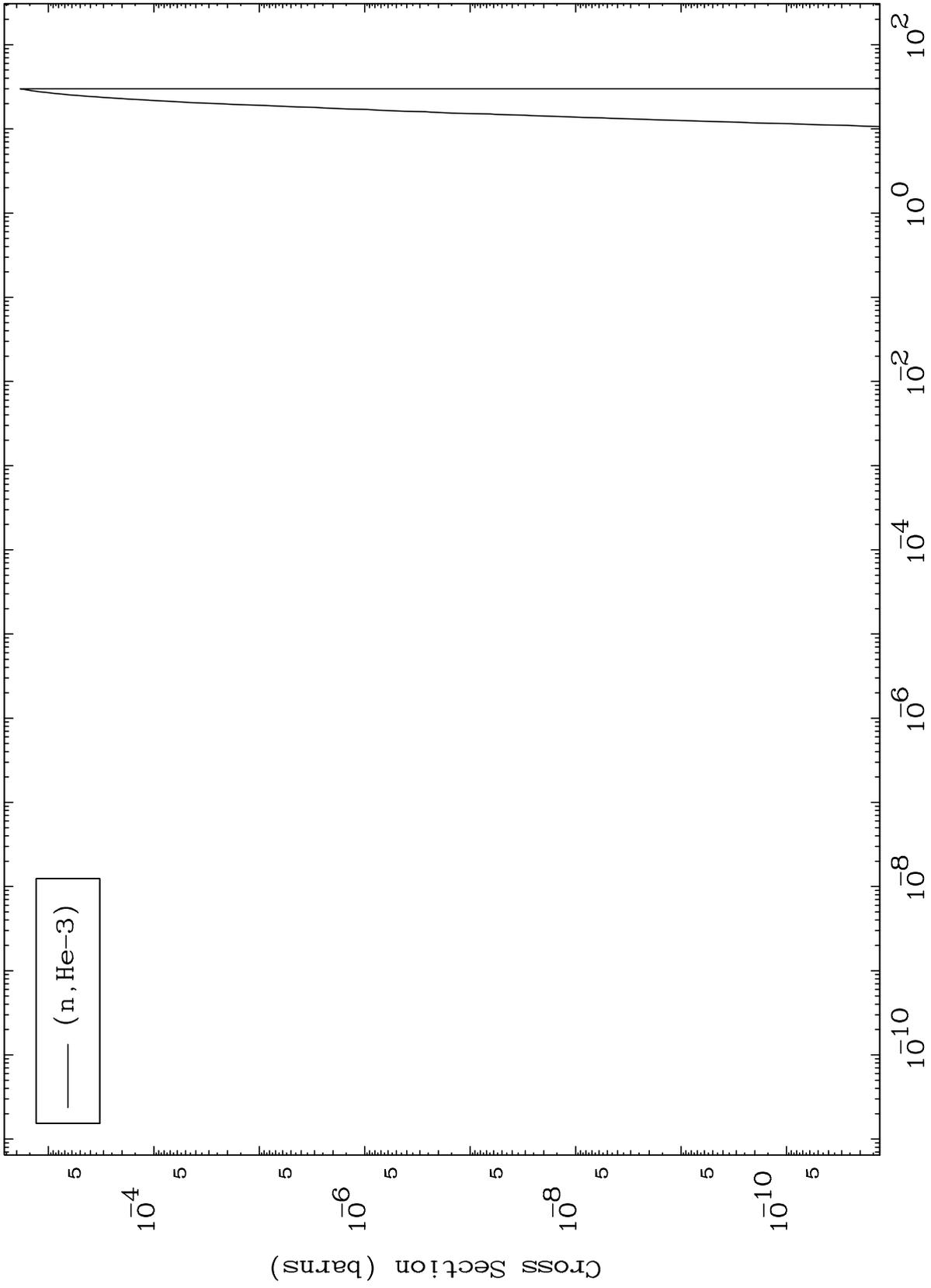
Incident Energy (MeV)

86-Rn-209

MAT 8619

(n,He3) Levels
293 Kelvin Cross Sections

86-Rn-209



16

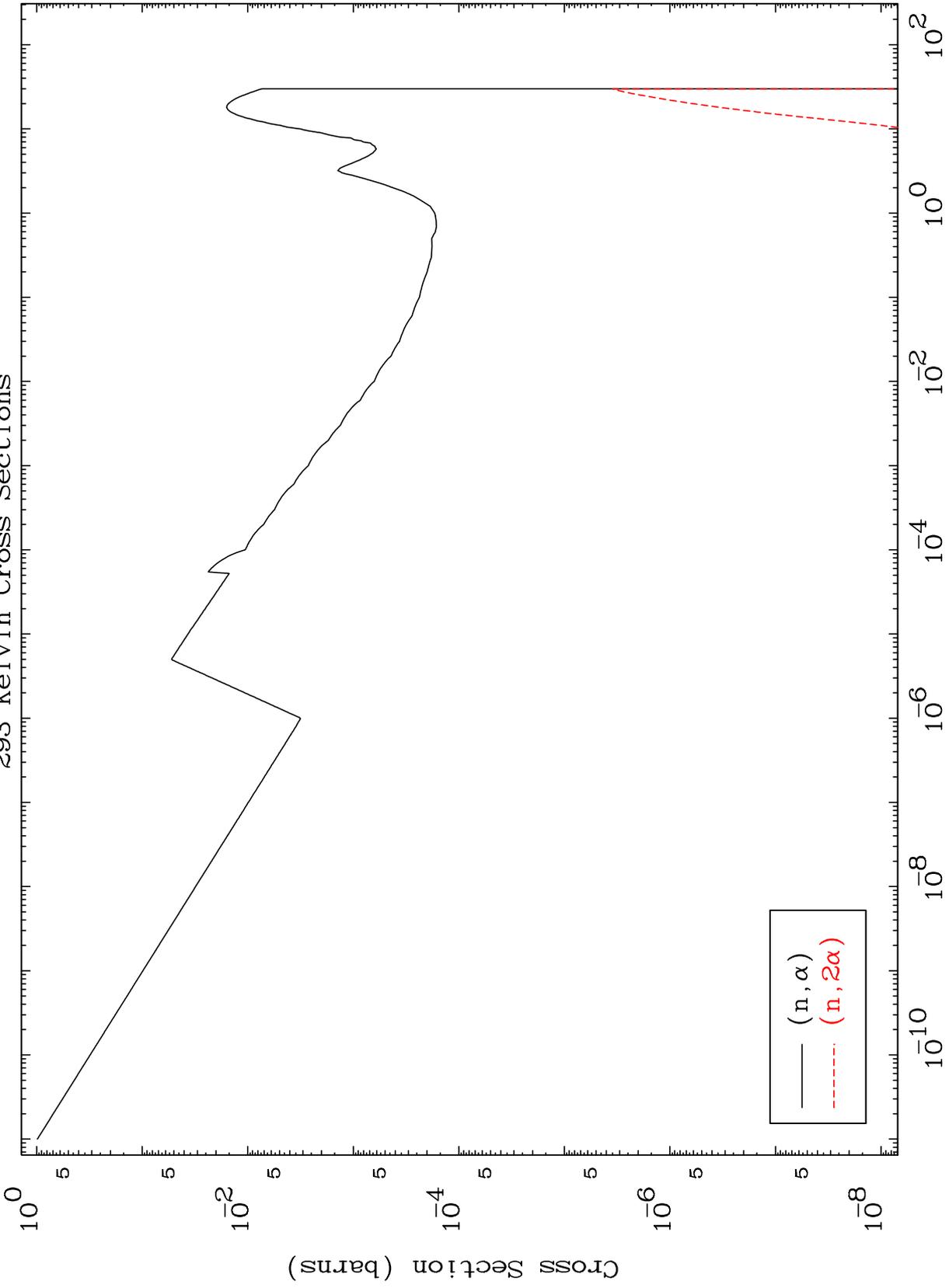
Incident Energy (MeV)

86-Rn-209

MAT 8619

(n, α) Levels
293 Kelvin Cross Sections

86-Rn-209



17

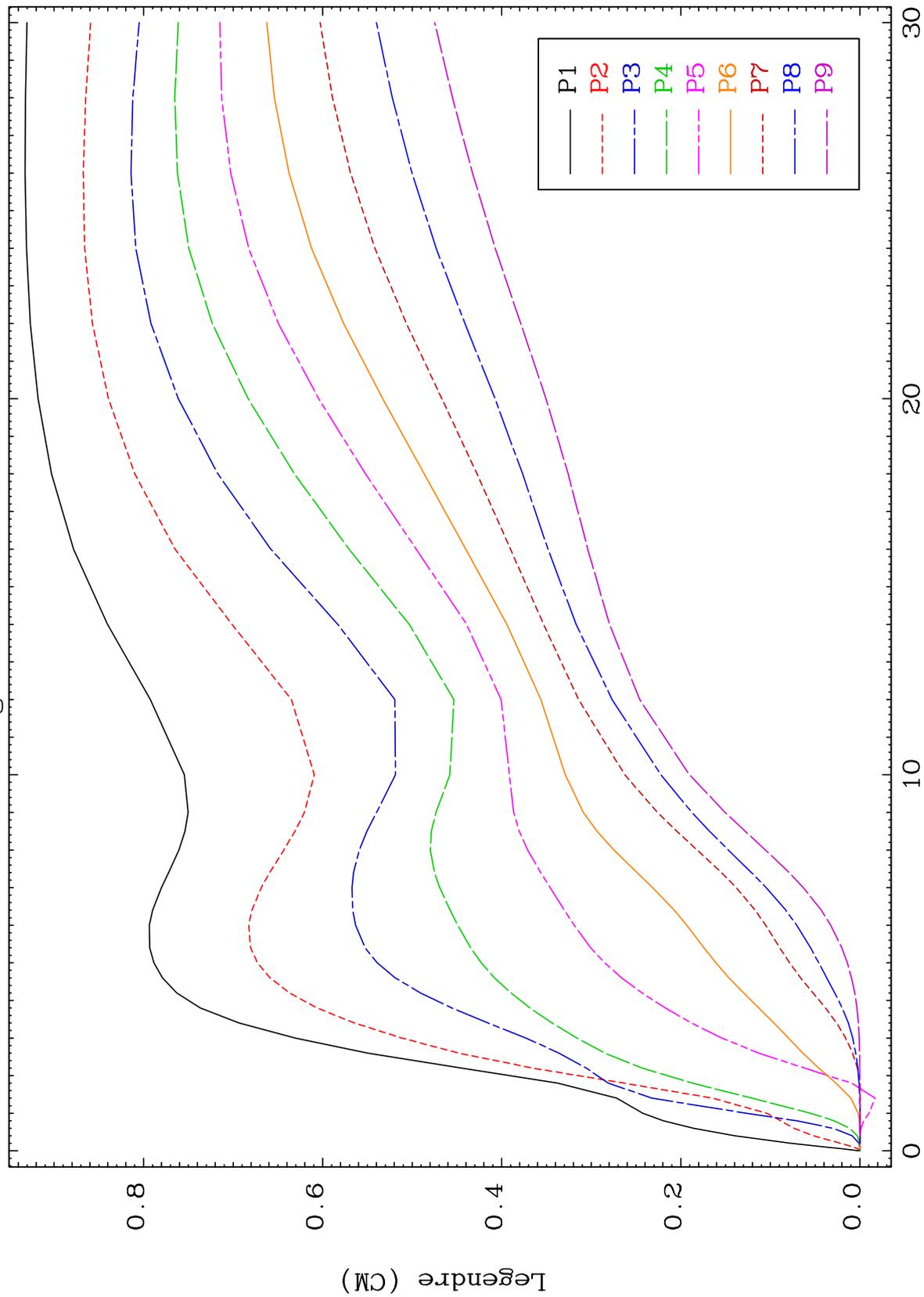
Incident Energy (MeV)

86-Rn-209

MAT 8619

86-Rn-209

Elastic Legendre Coefficients



86-Rn-209

Incident Energy (MeV)

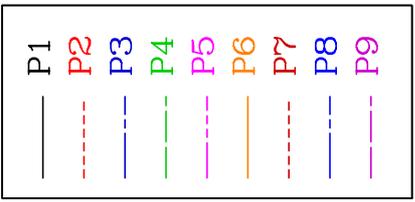
18

30

20

10

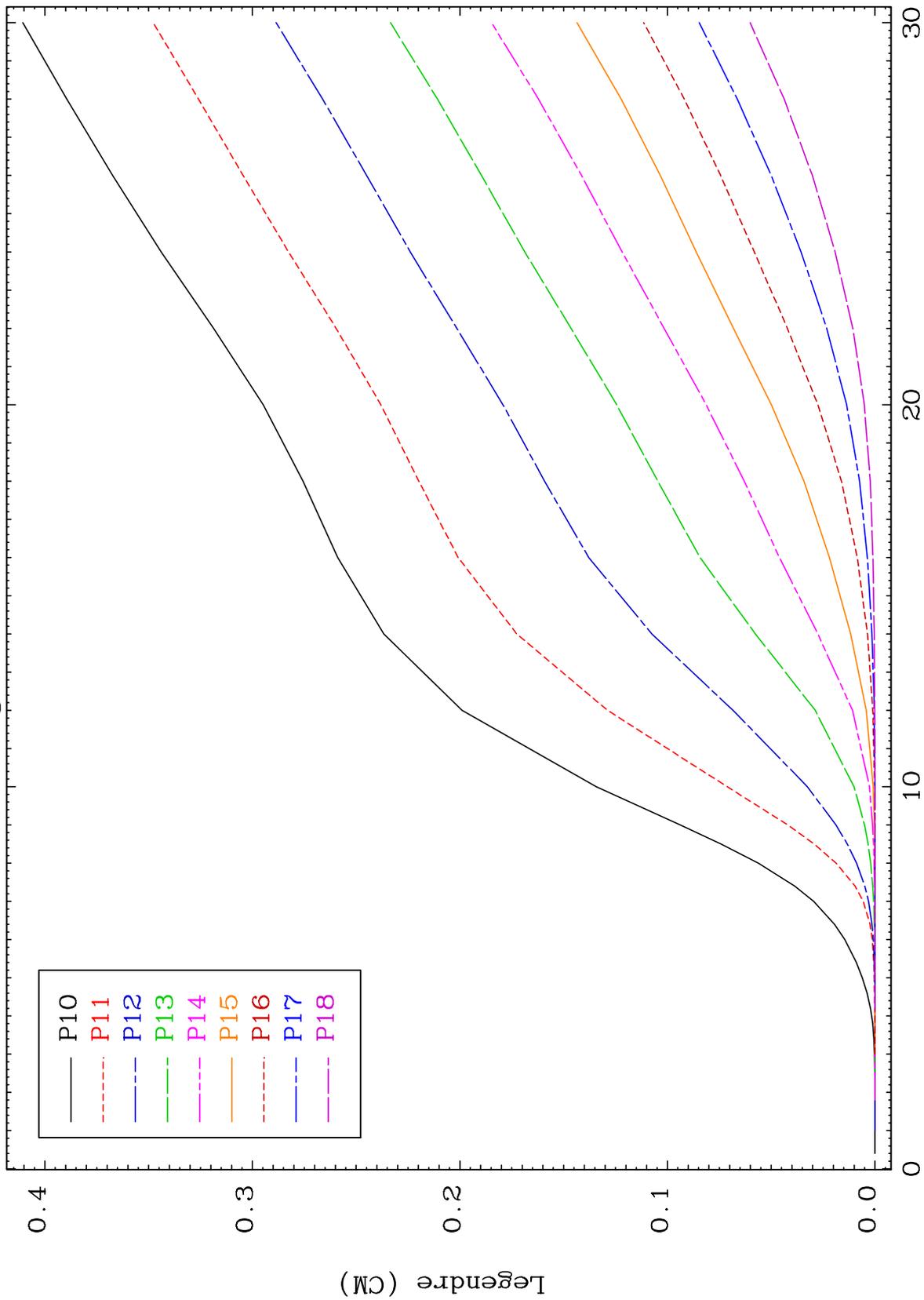
0



MAT 8619

Elastic Legendre Coefficients

86-Rn-209



19

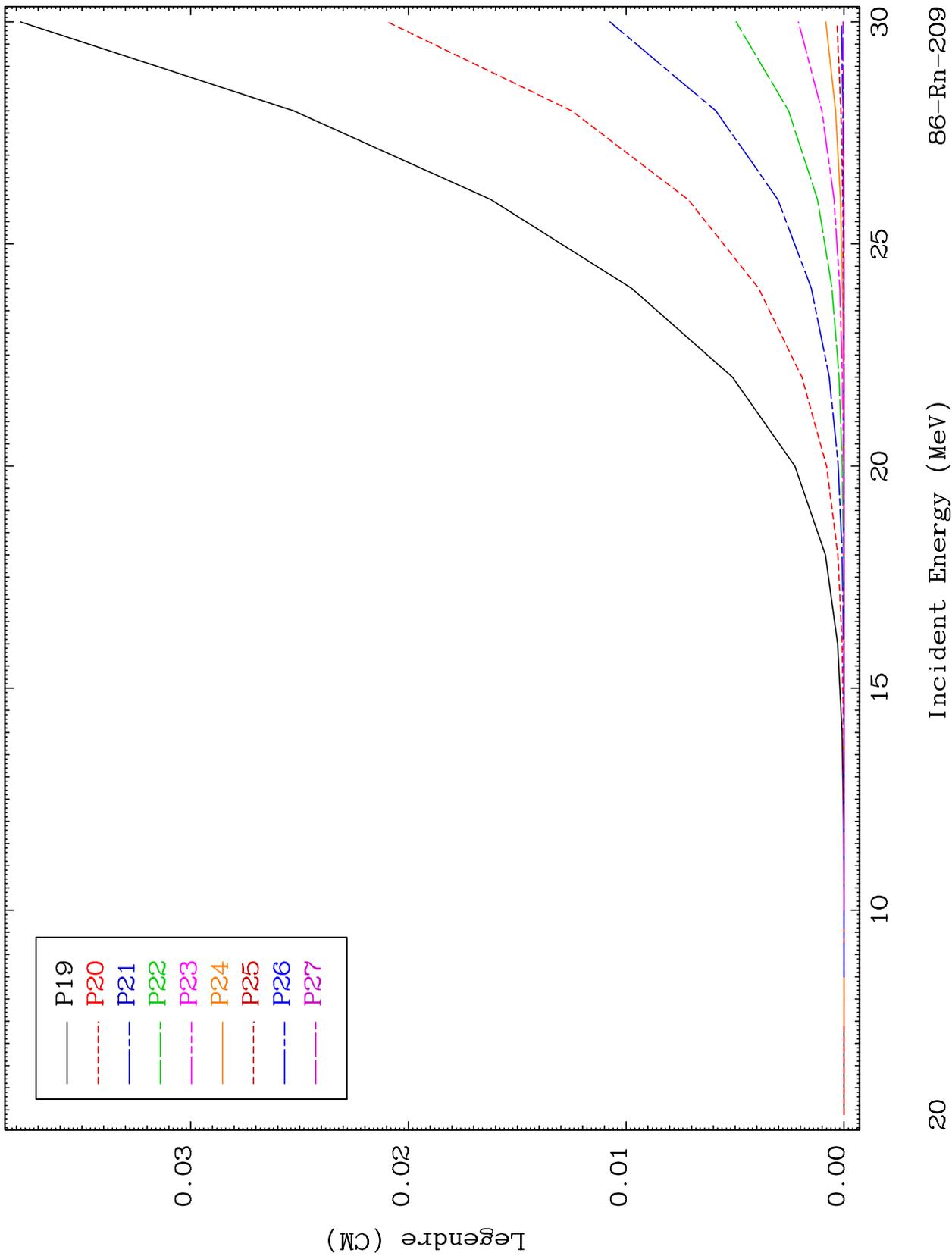
Incident Energy (MeV)

86-Rn-209

MAT 8619

Elastic Legendre Coefficients

86-Rn-209



20

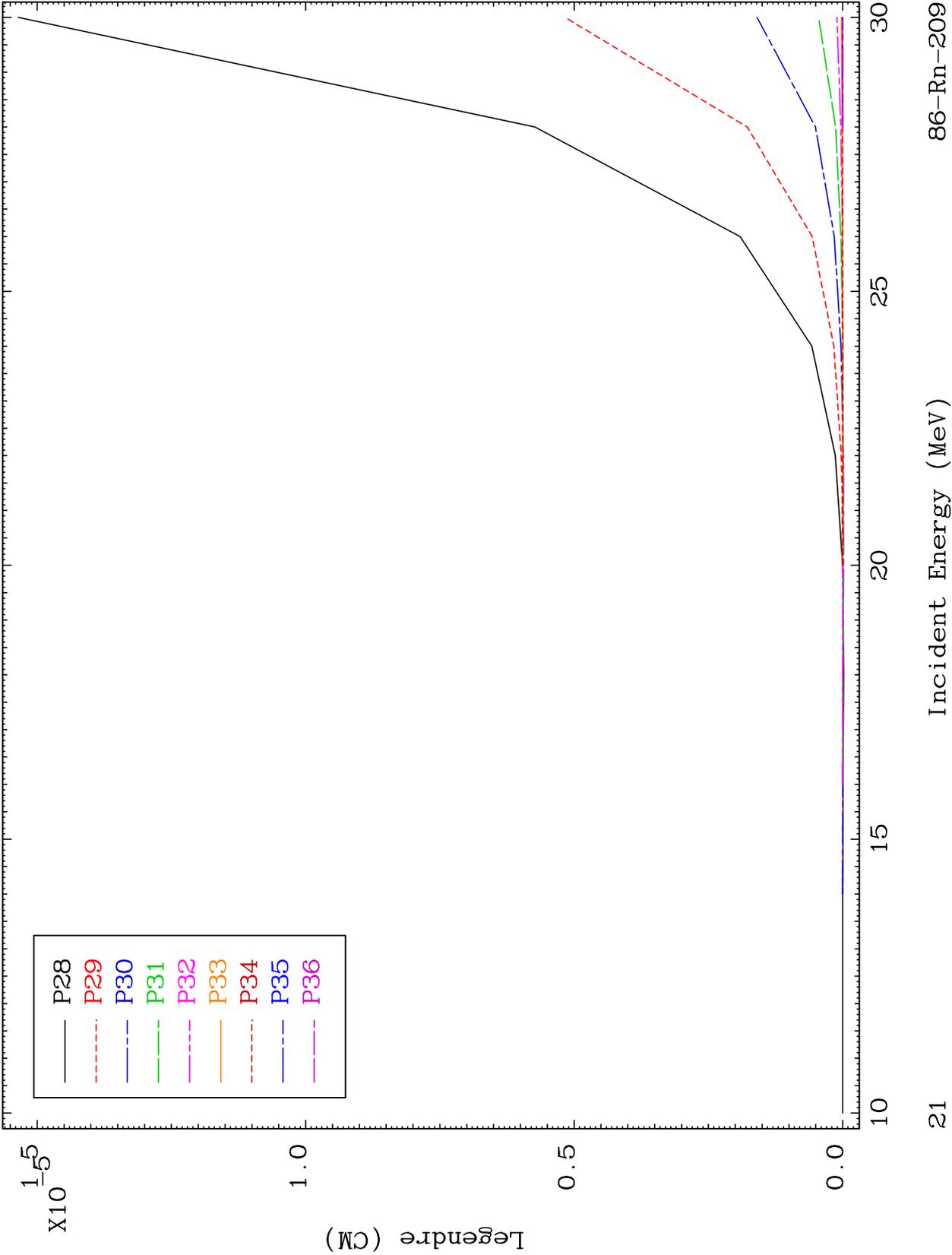
Incident Energy (MeV)

86-Rn-209

MAT 8619

Elastic Legendre Coefficients

86-Rn-209



21

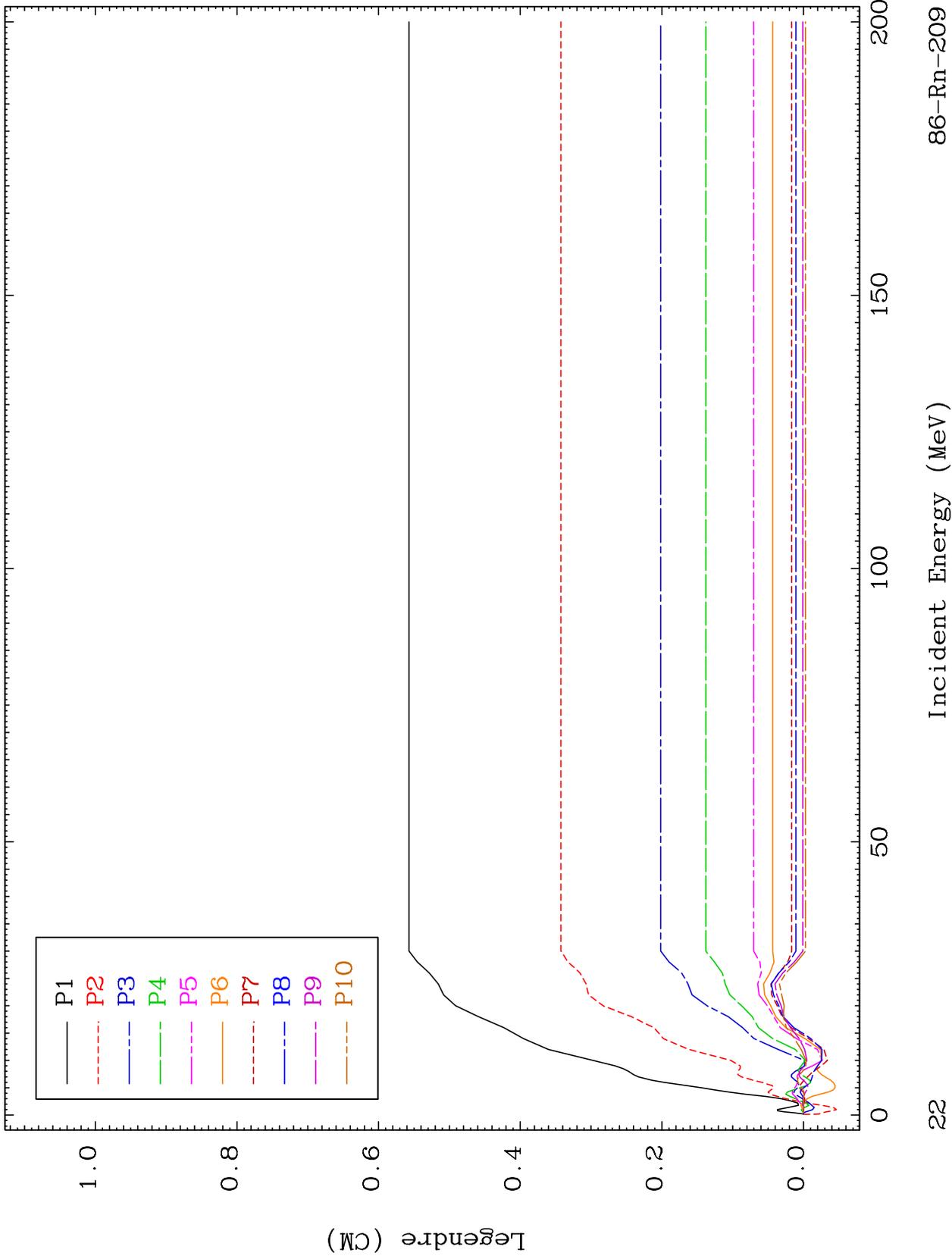
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

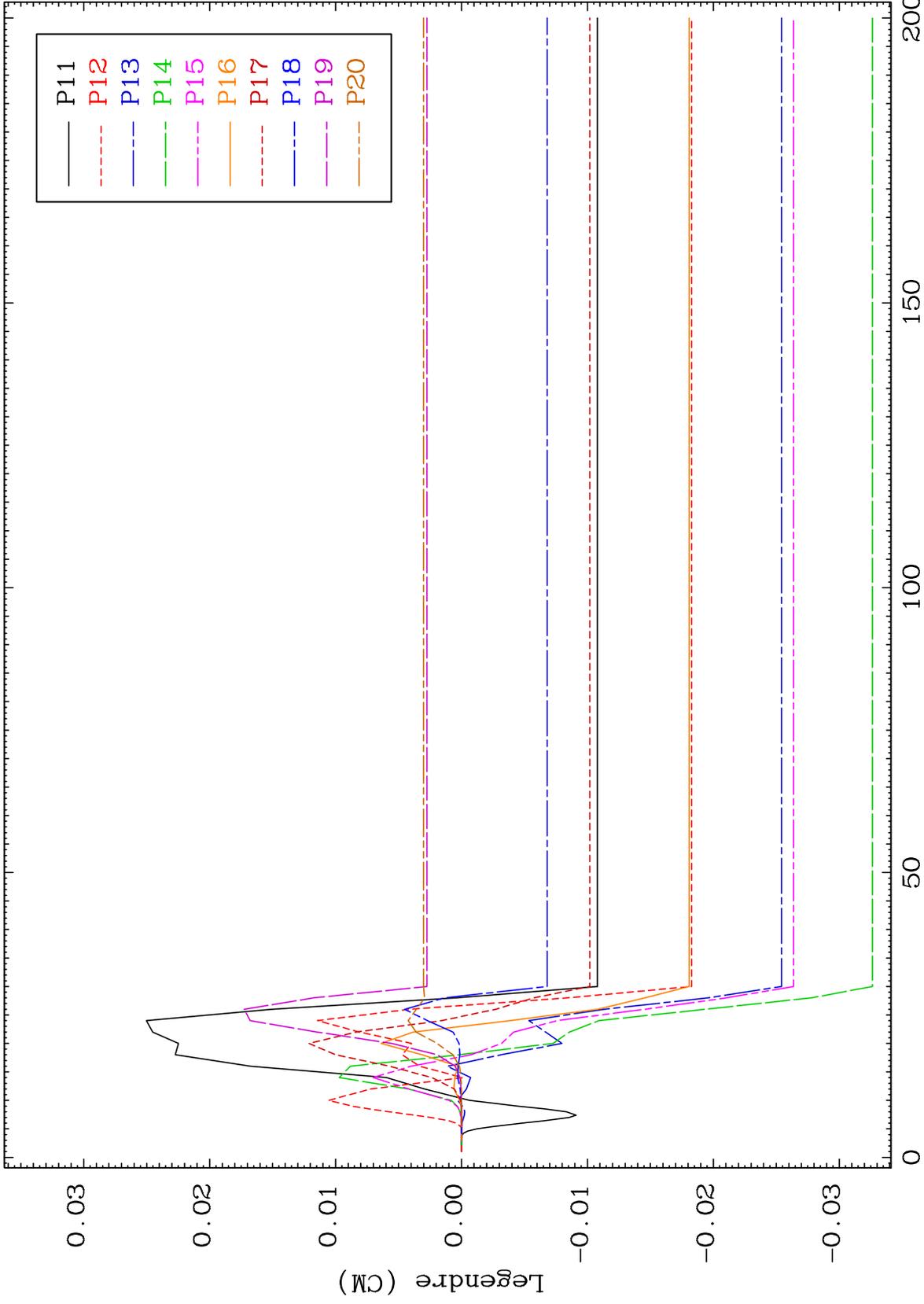
86-Rn-209



MAT 8619

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

86-Rn-209



23

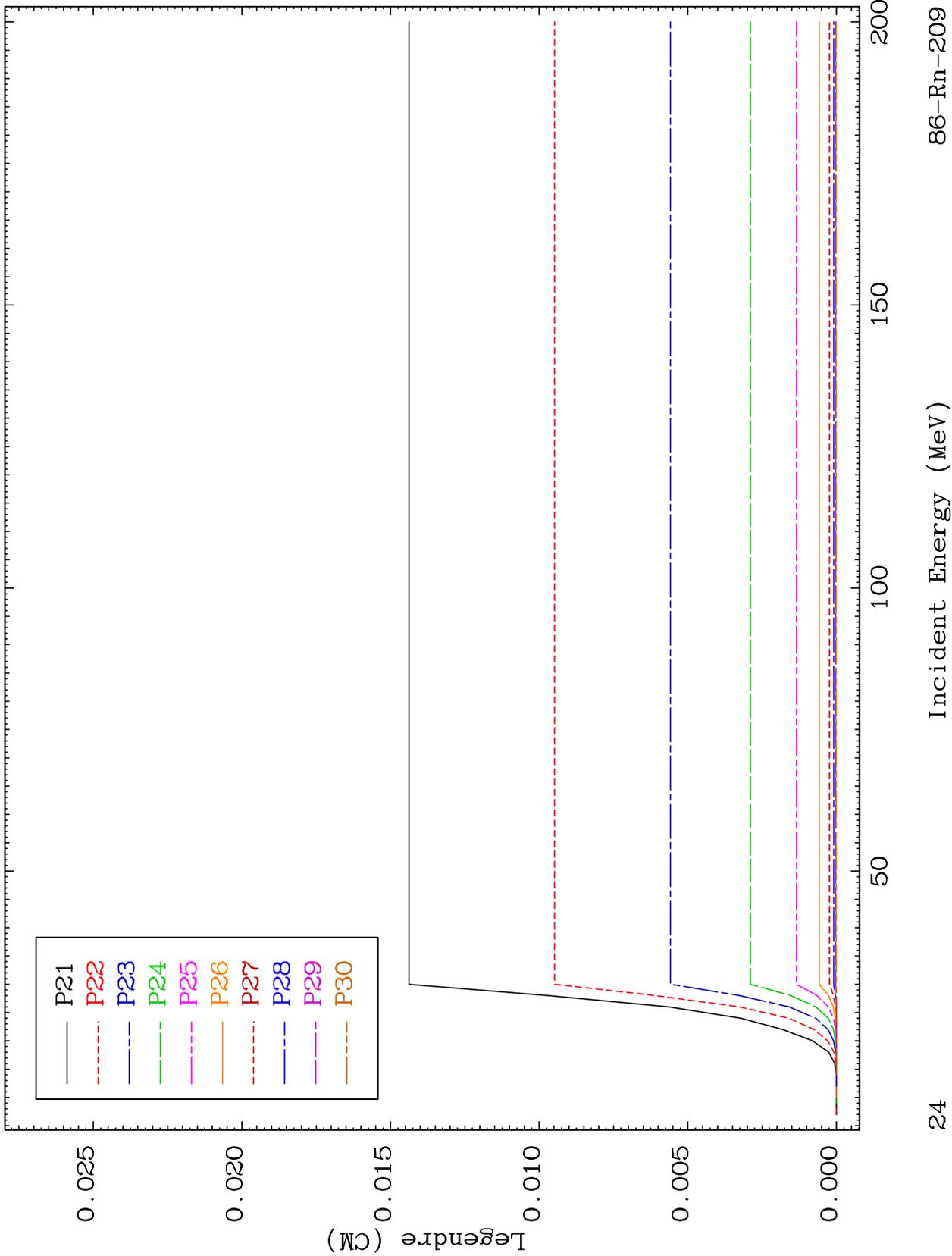
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



24

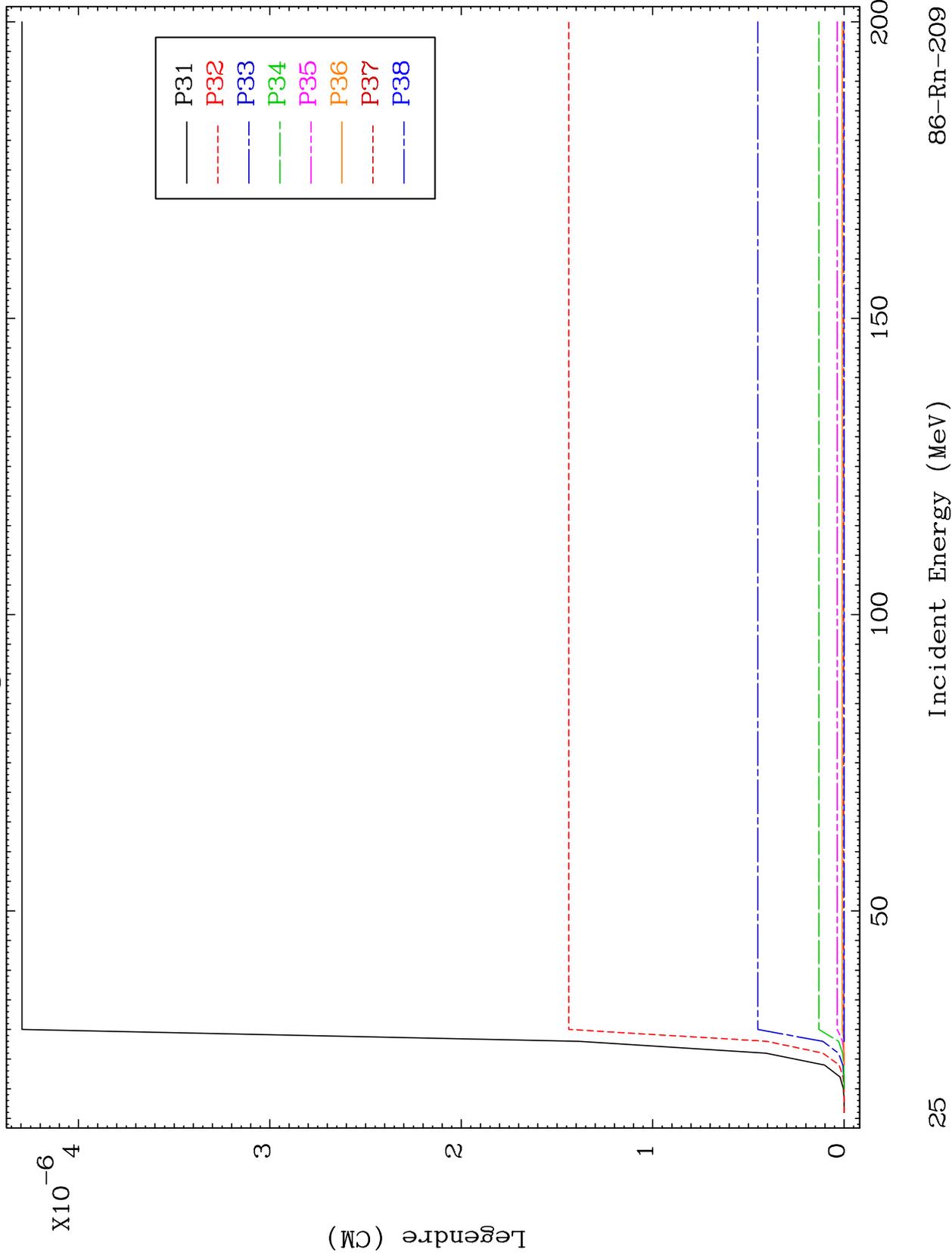
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

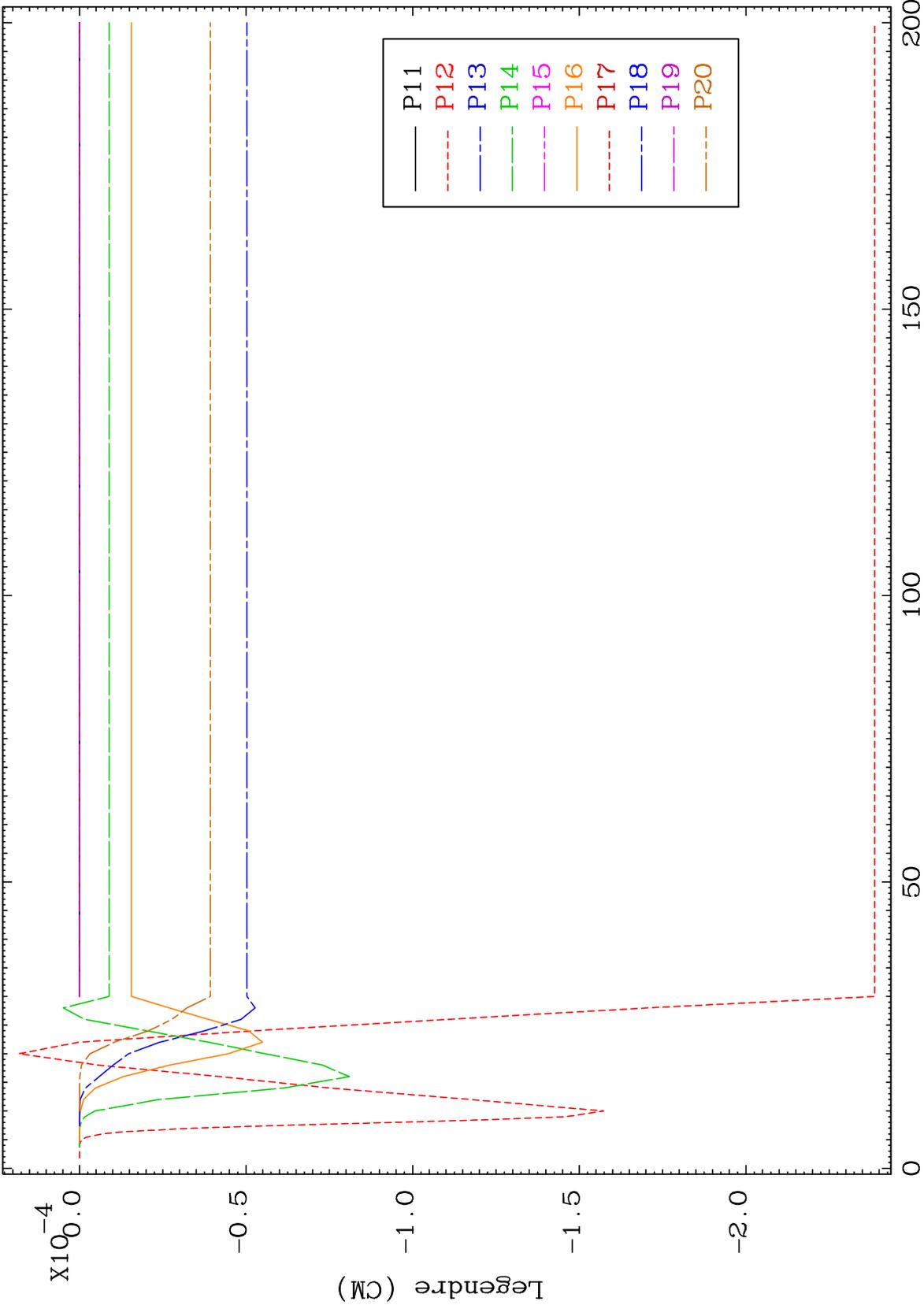
86-Rn-209



MAT 8619

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

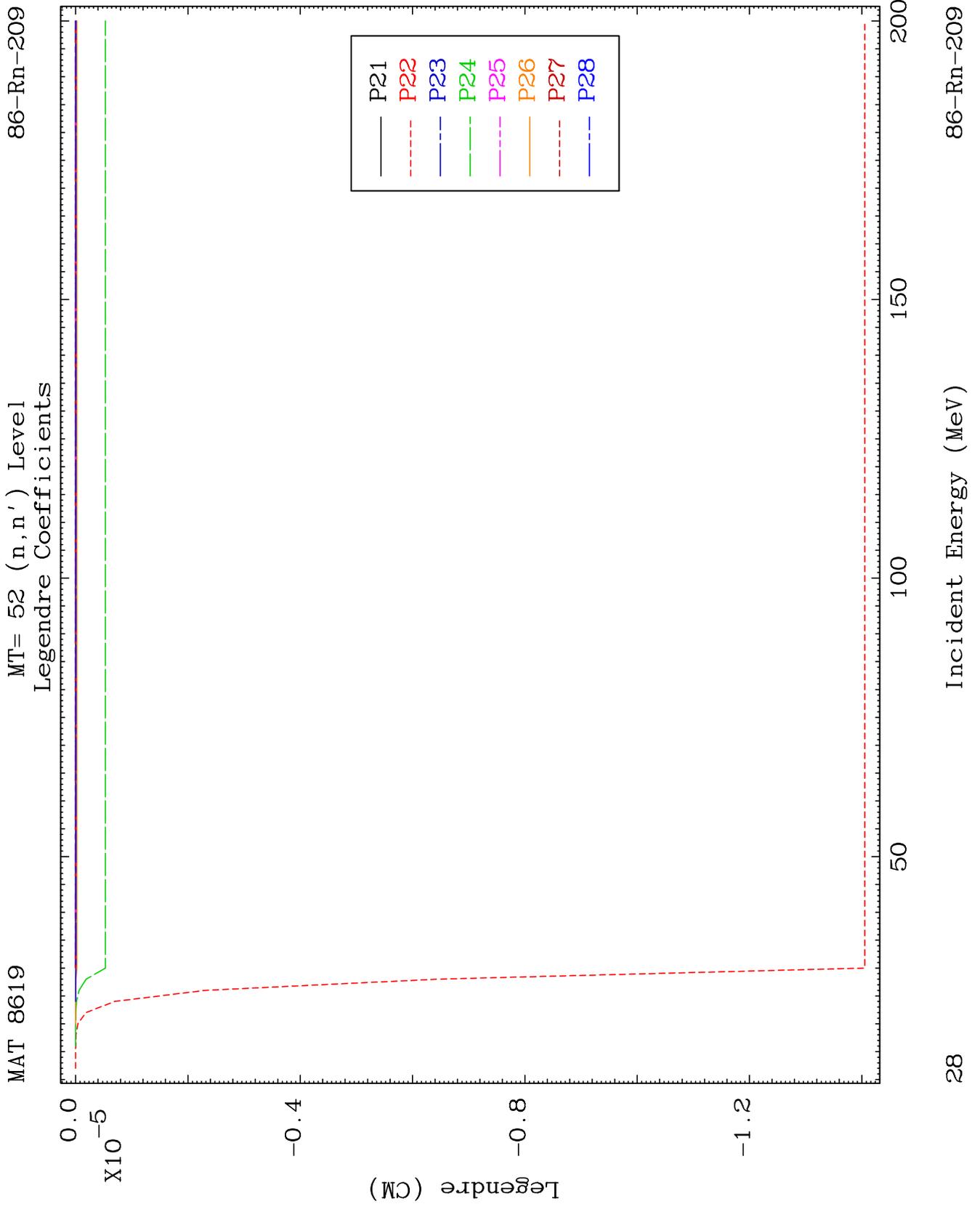
86-Rn-209



27

Incident Energy (MeV)

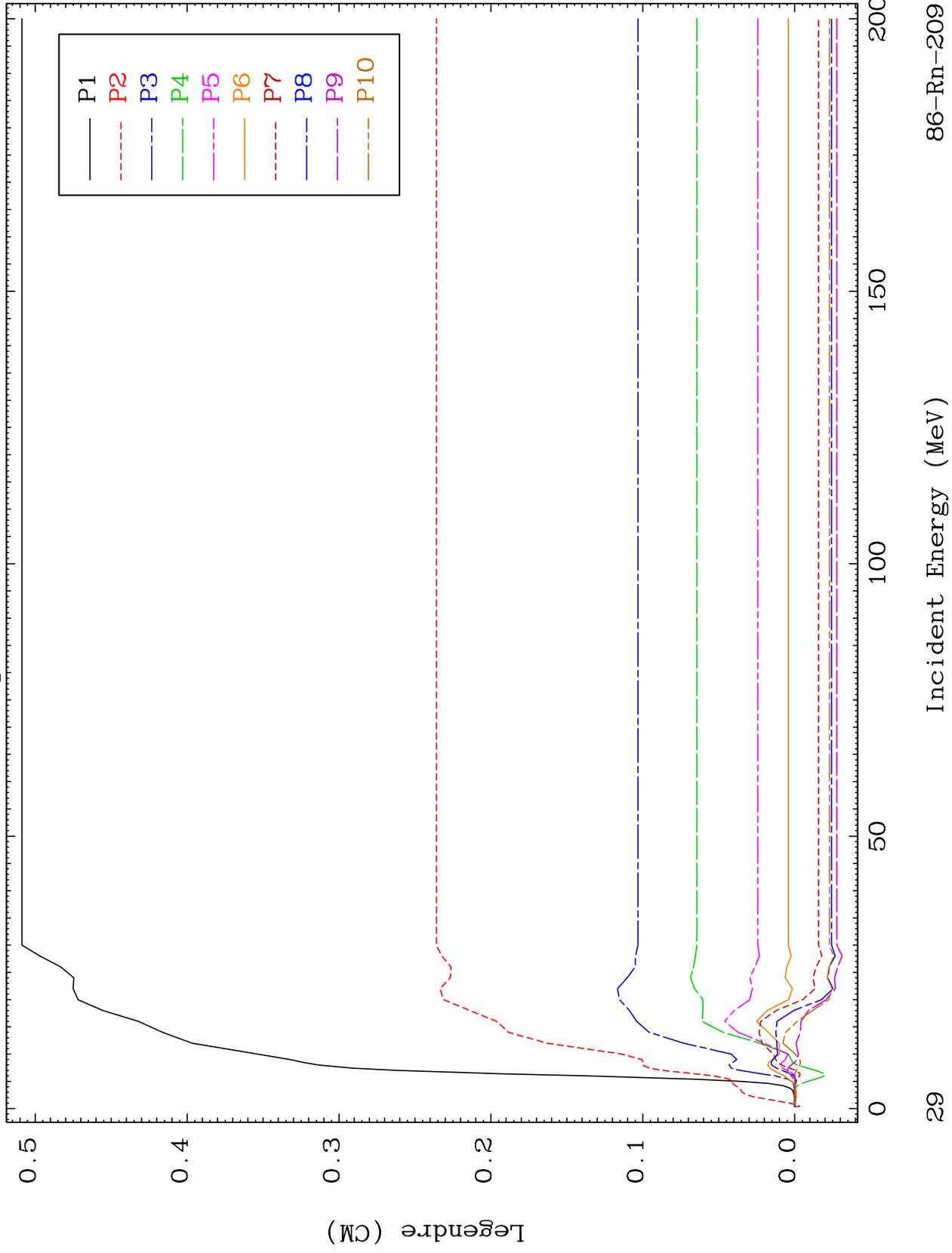
86-Rn-209



MAT 8619

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

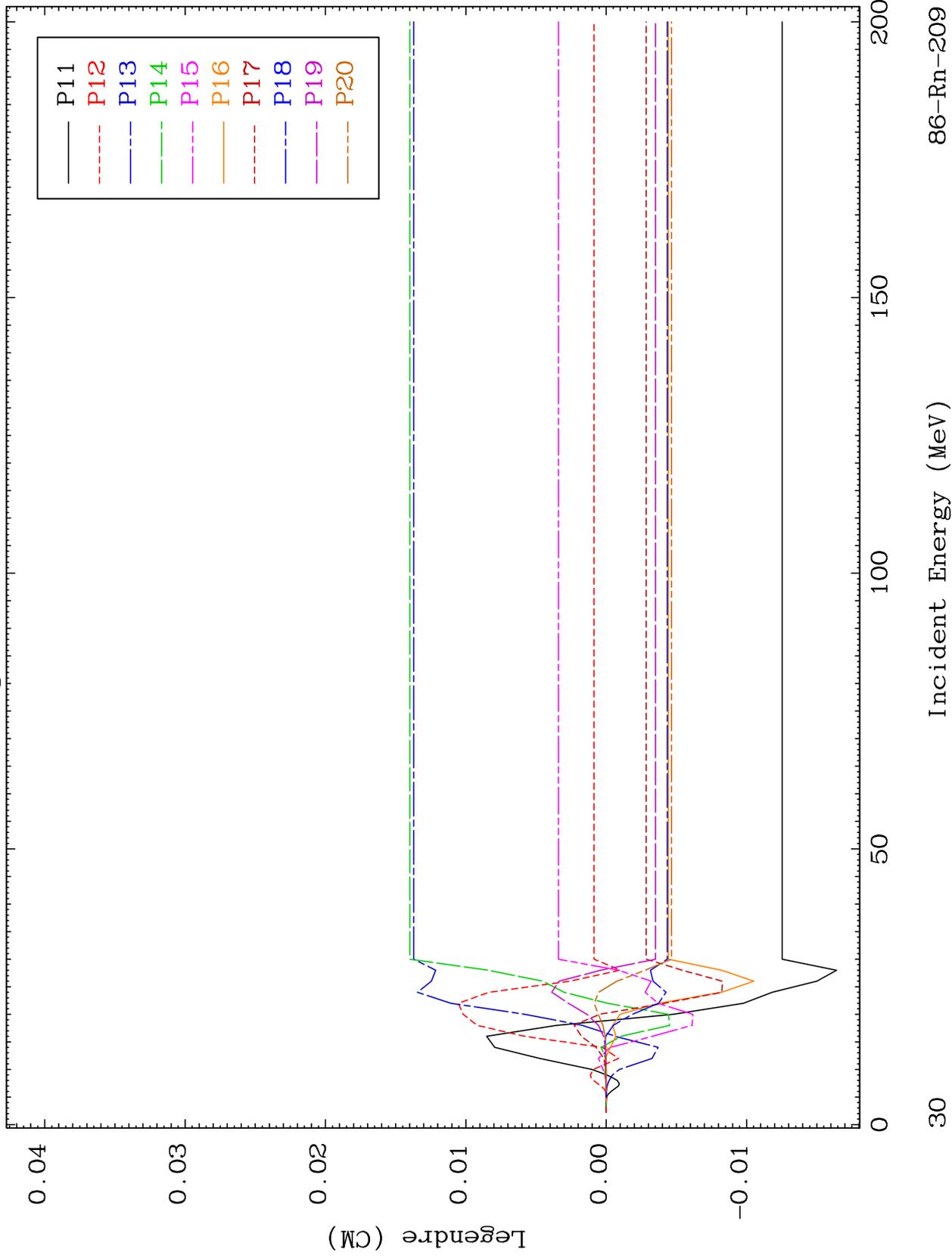
86-Rn-209



MAT 8619

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

86-Rn-209



86-Rn-209

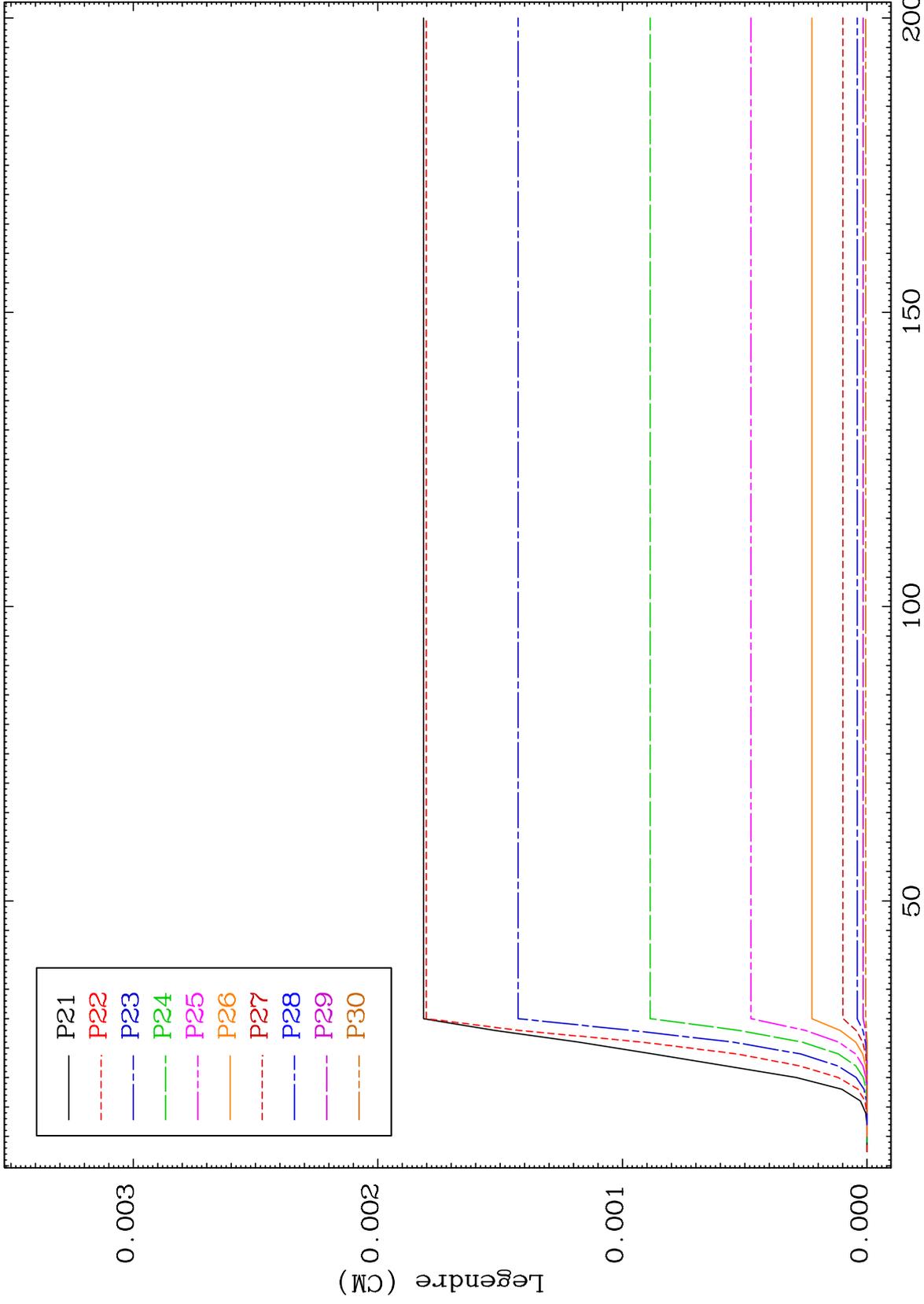
Incident Energy (MeV)

30

MAT 8619

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

86-Rn-209



31

Incident Energy (MeV)

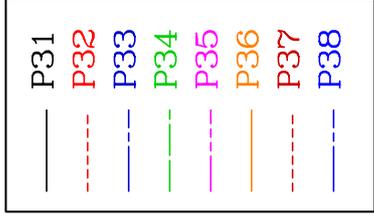
86-Rn-209

MAT 8619

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

86-Rn-209

$\times 10^{-6}$

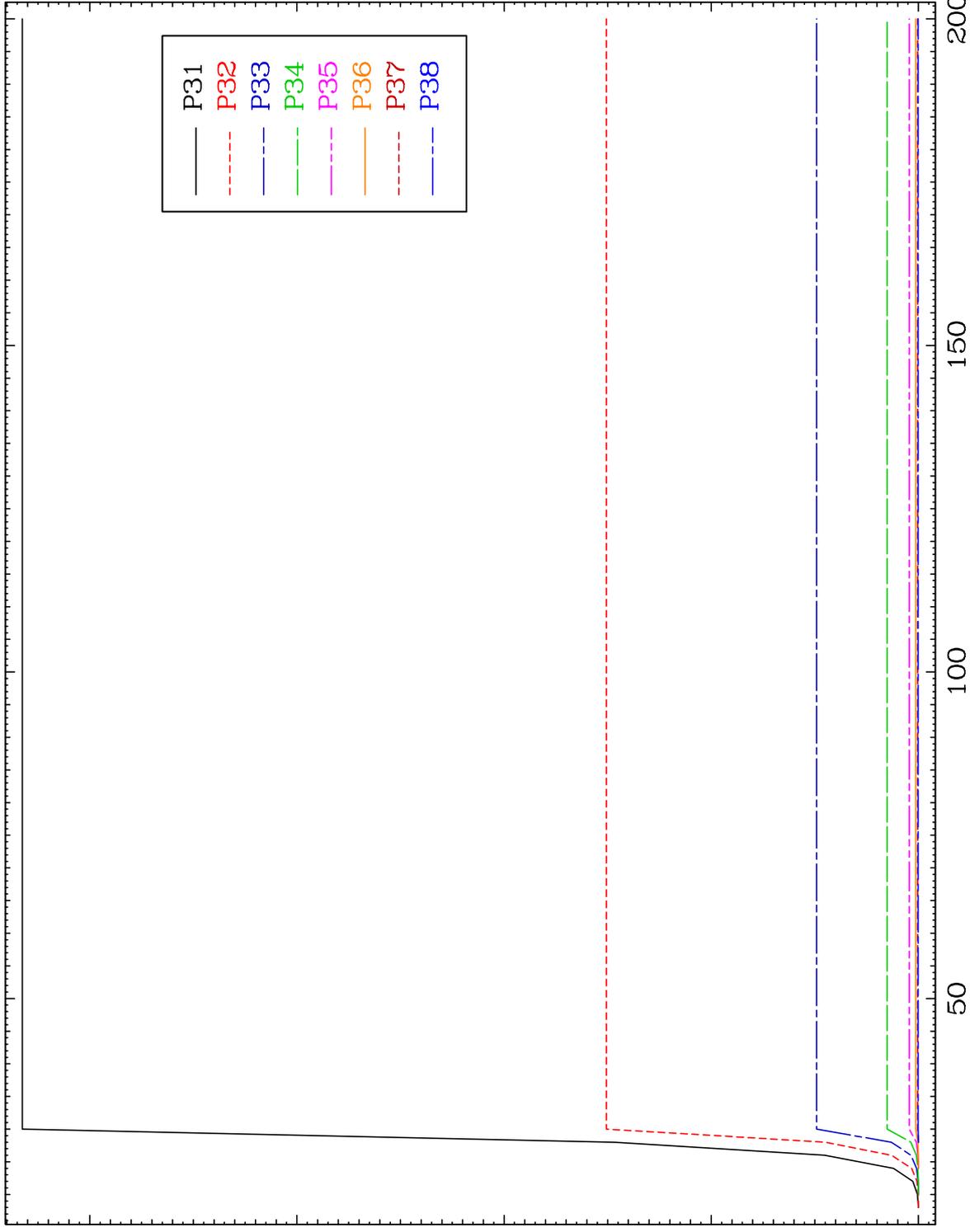


Legendre (CM)

32

Incident Energy (MeV)

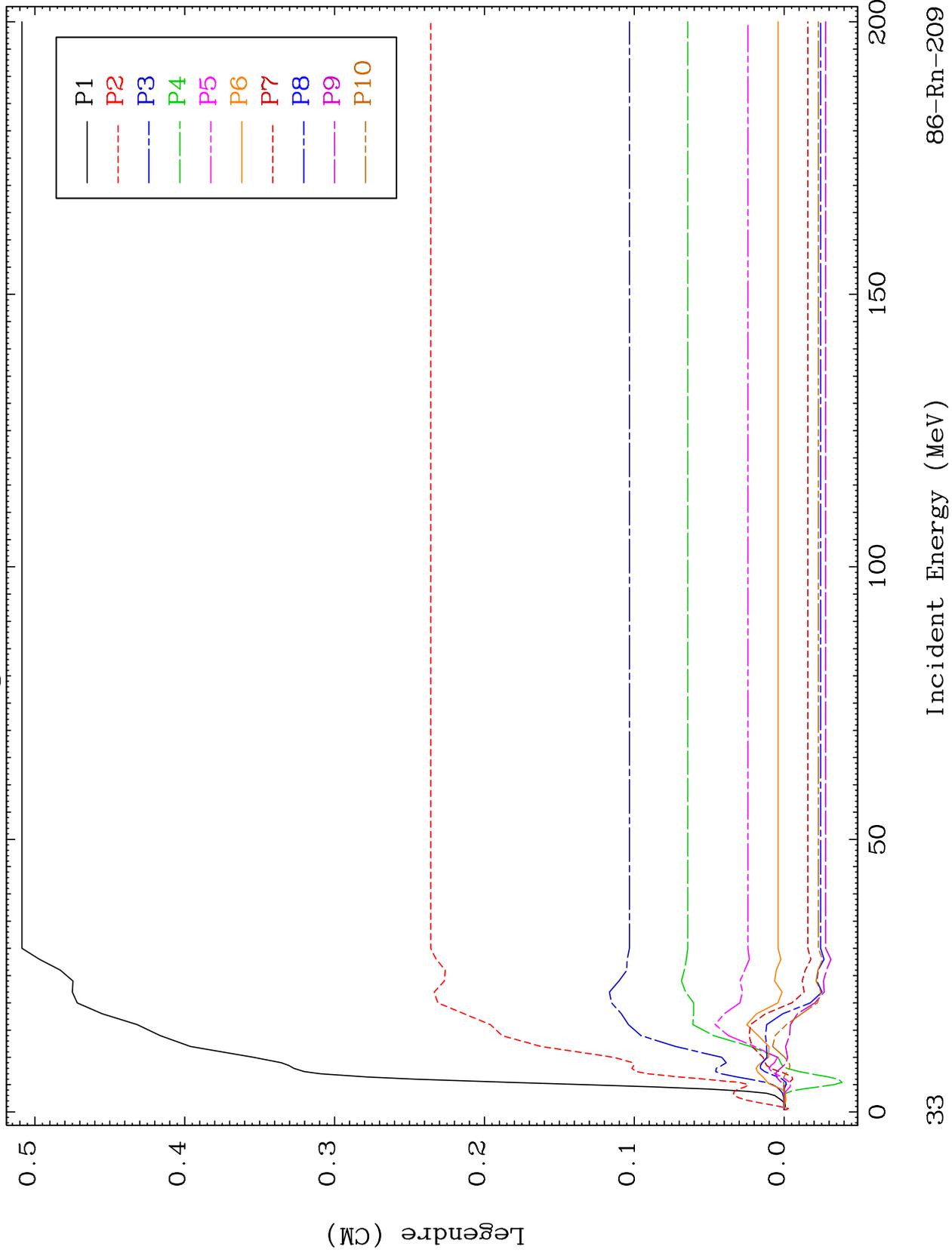
86-Rn-209



MAT 8619

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

86-Rn-209



33

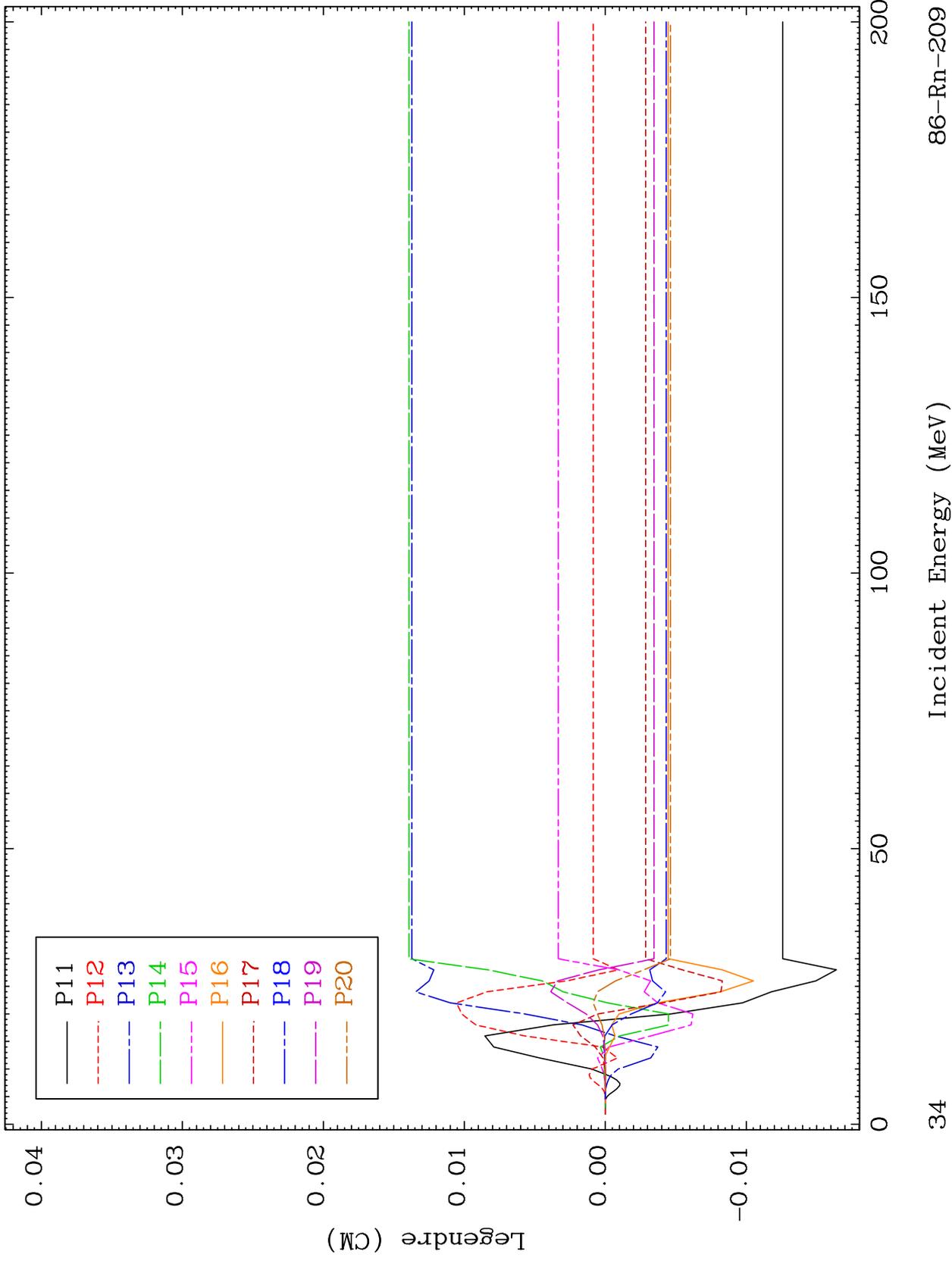
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



34

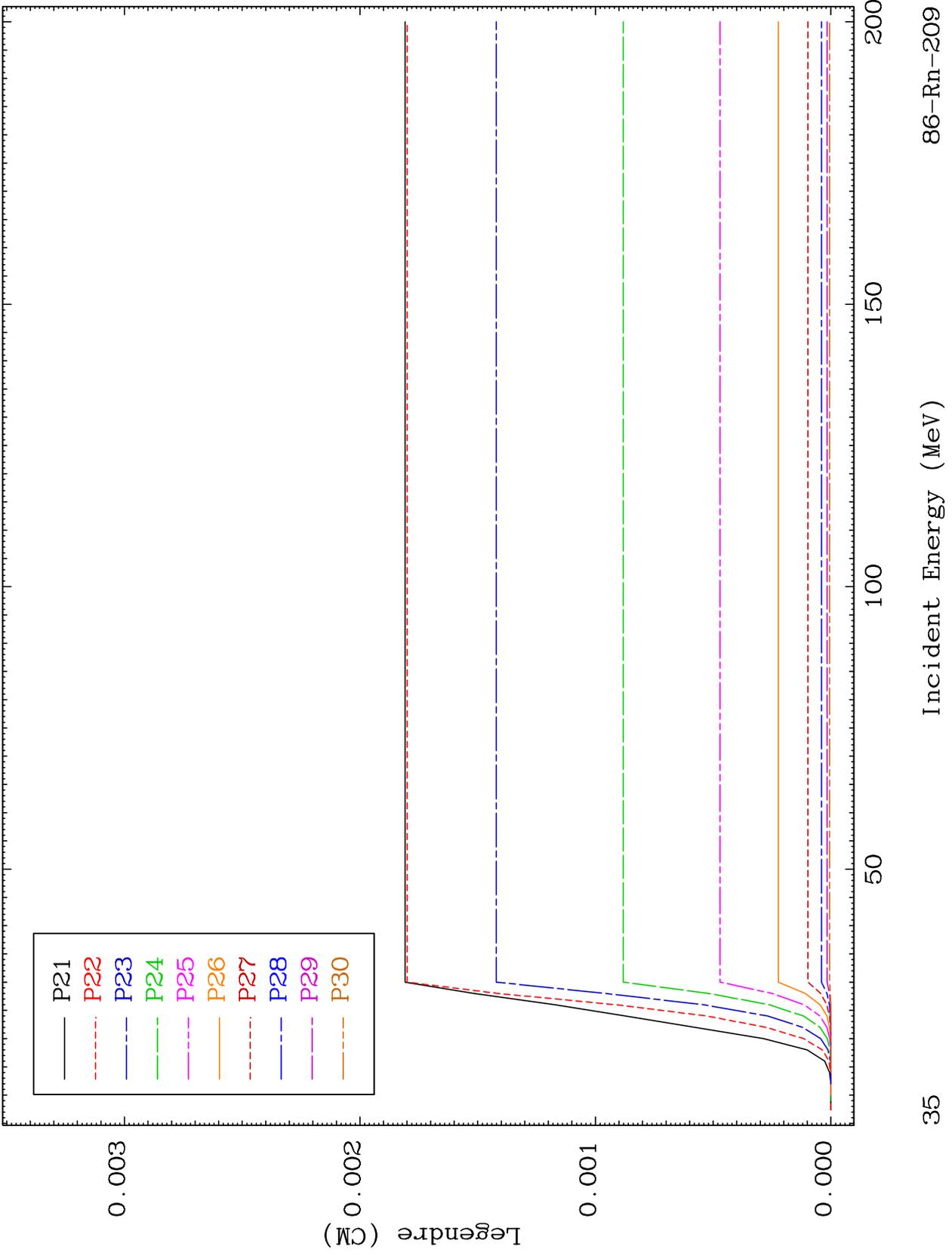
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



35

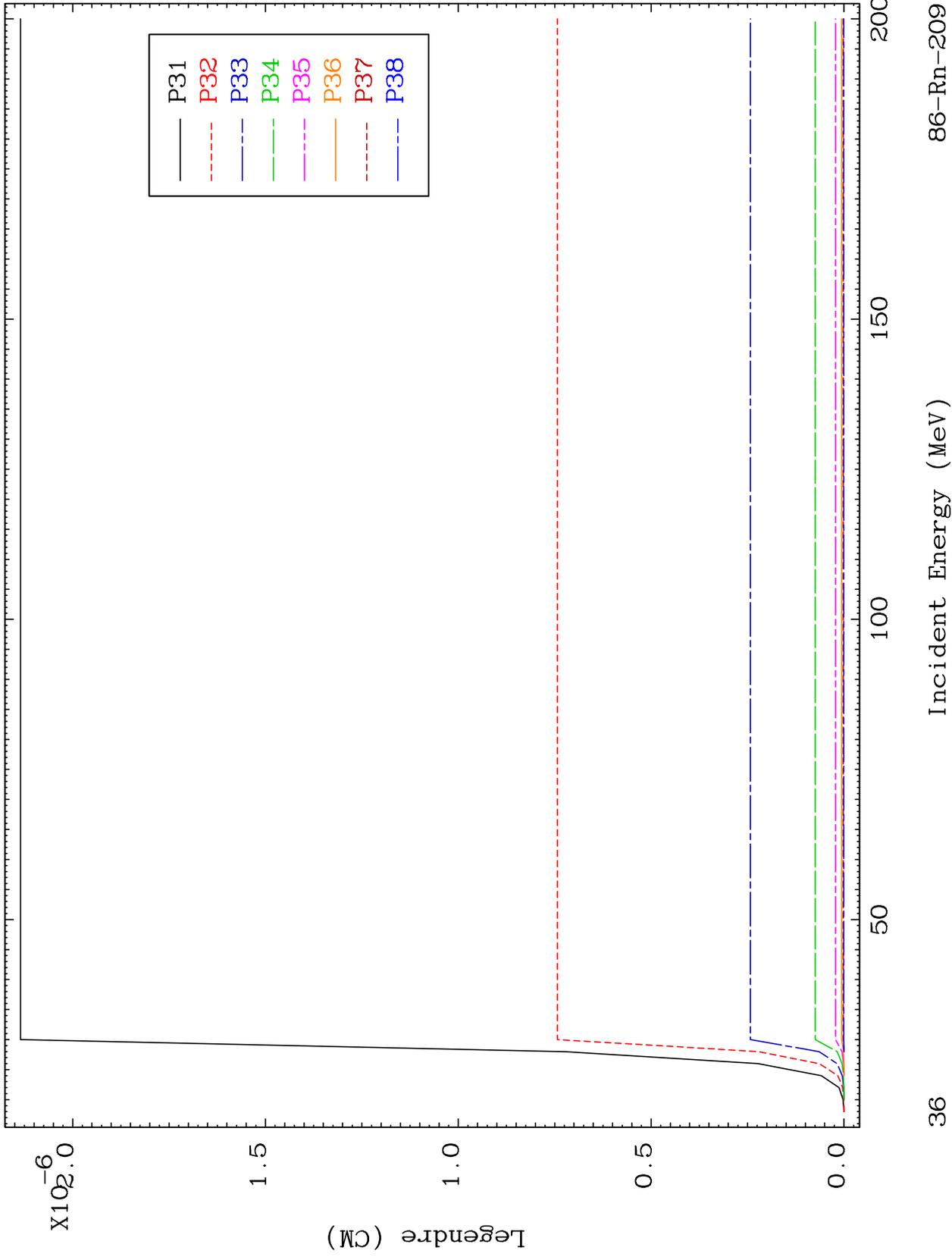
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



36

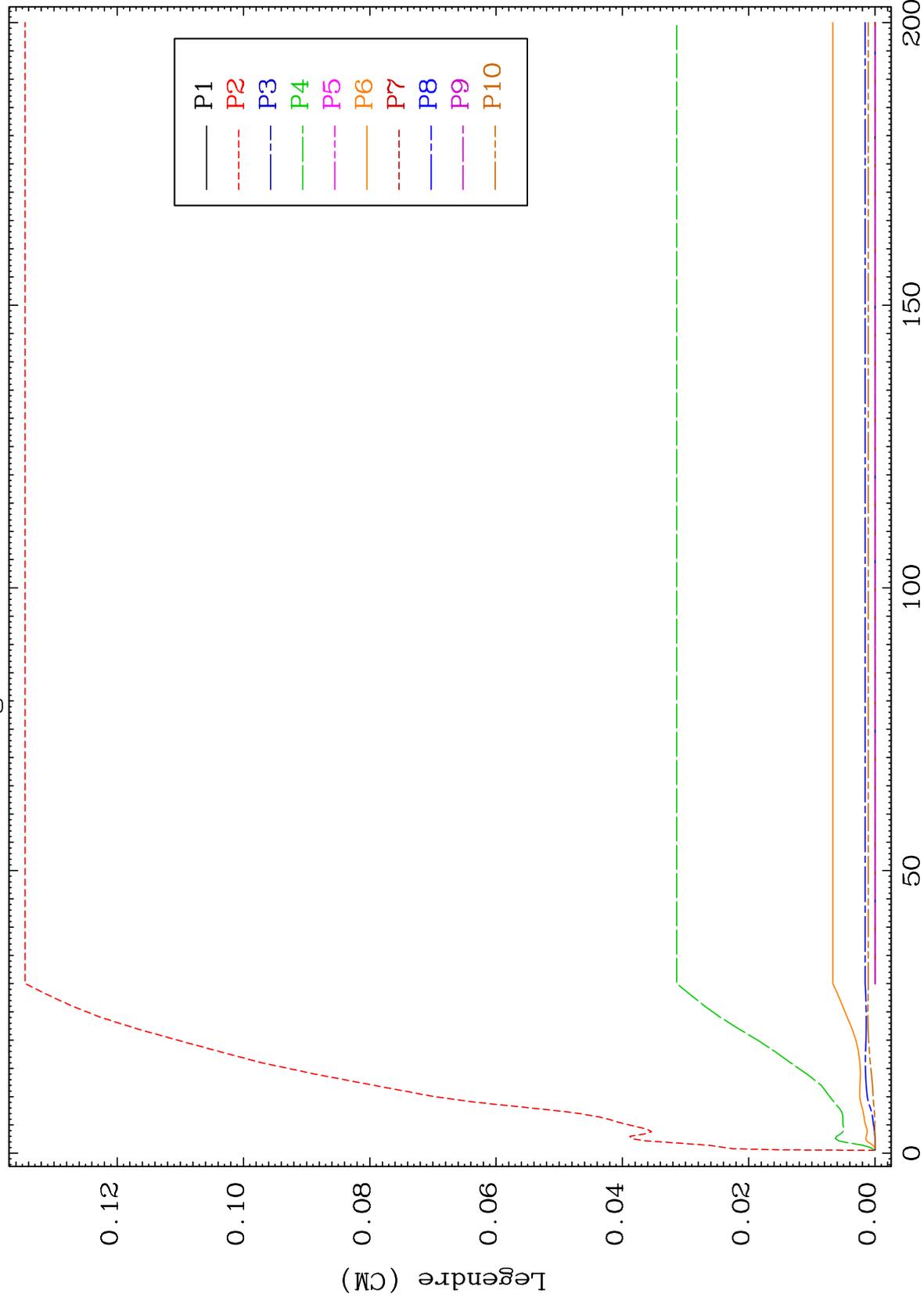
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



86-Rn-209

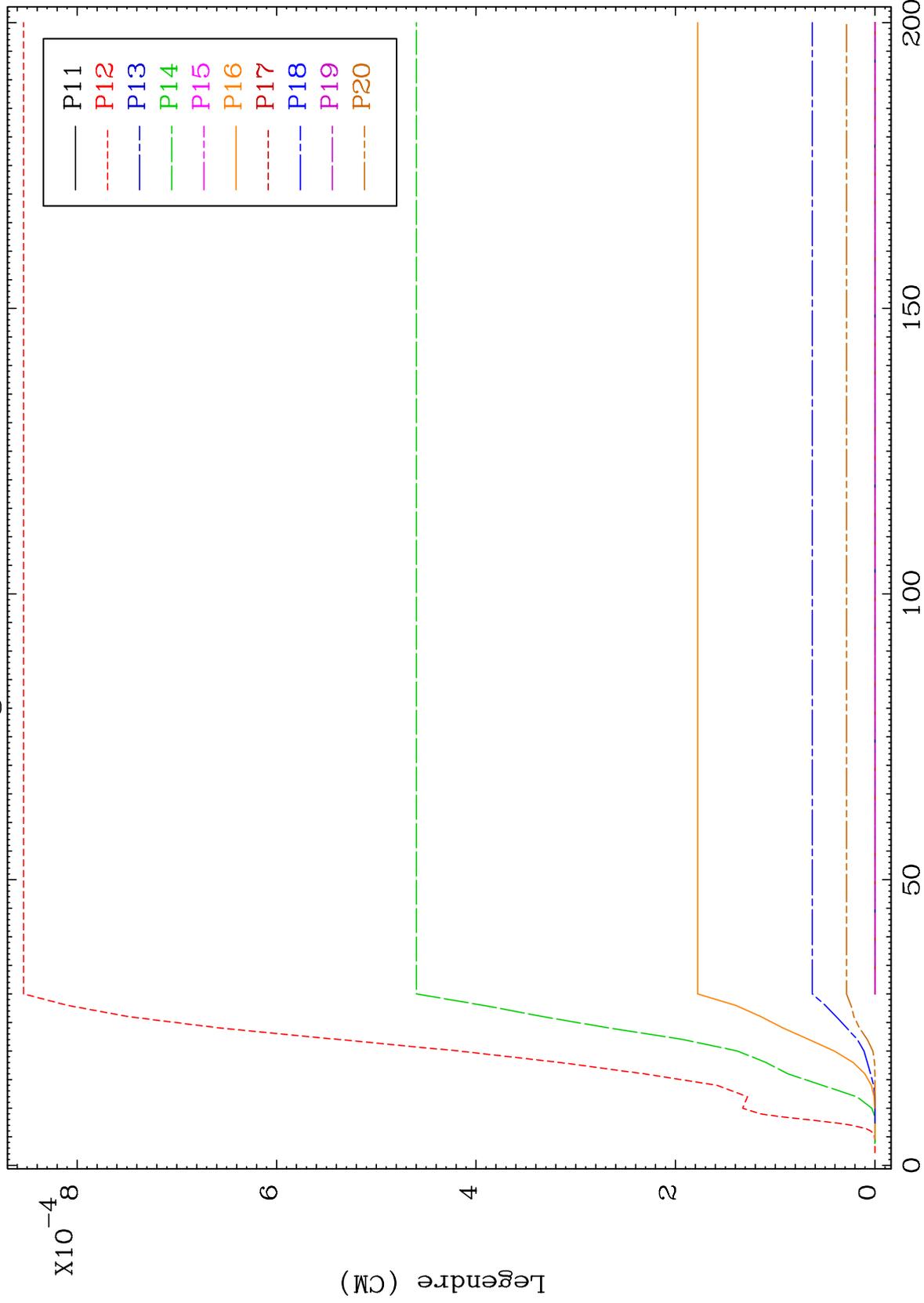
Incident Energy (MeV)

37

MAT 8619

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

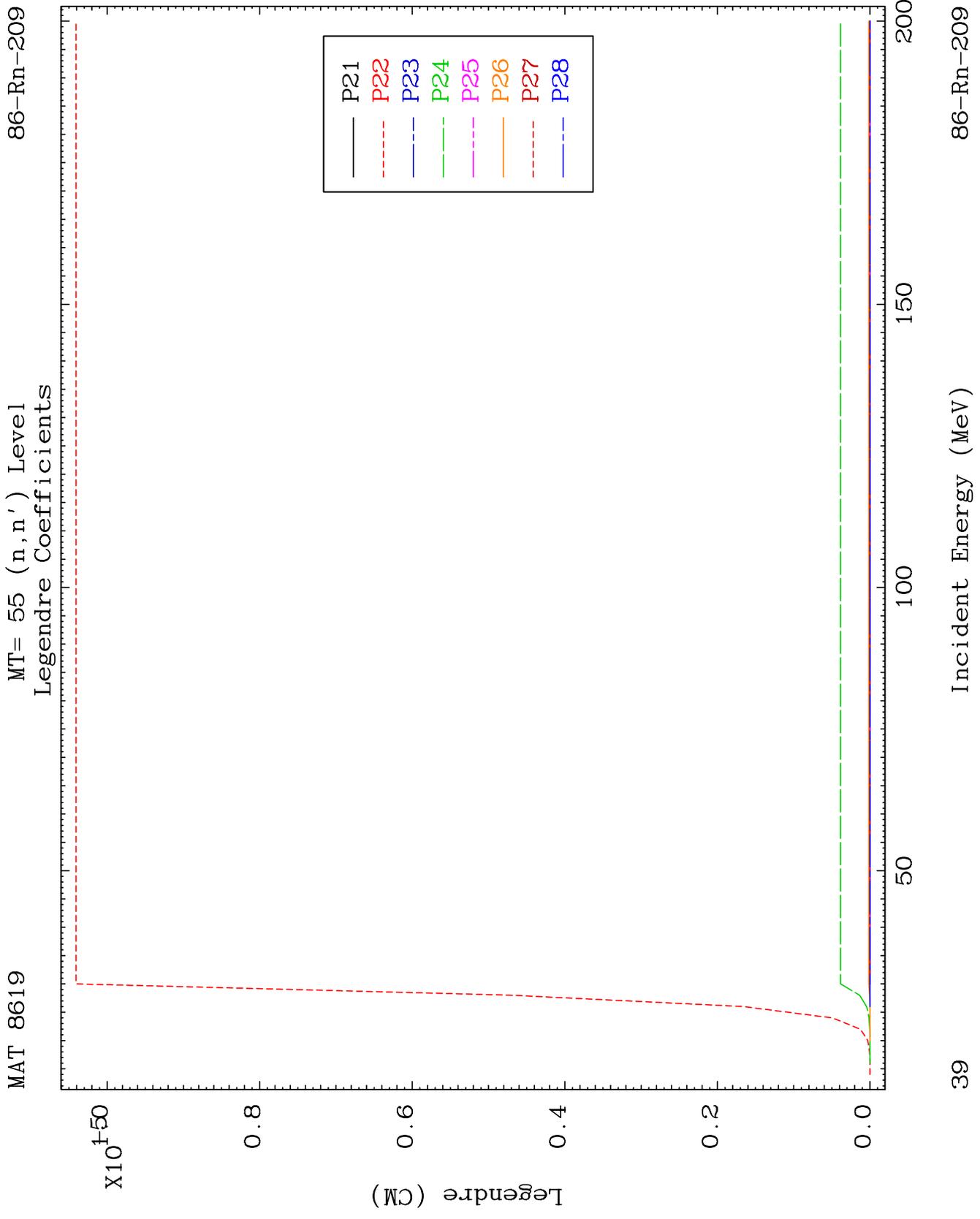
86-Rn-209



38

86-Rn-209

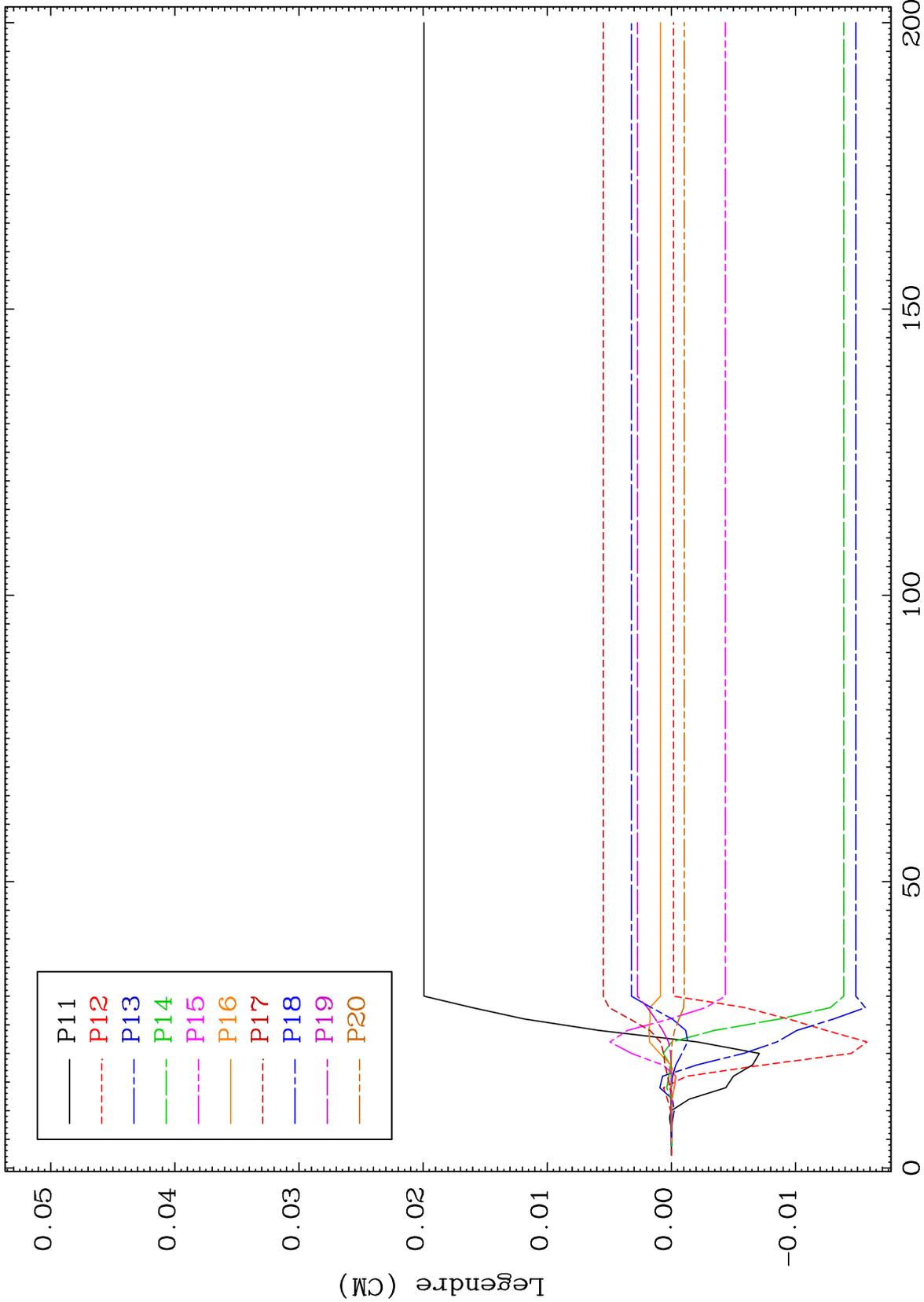
86-Rn-209



MAT 8619

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

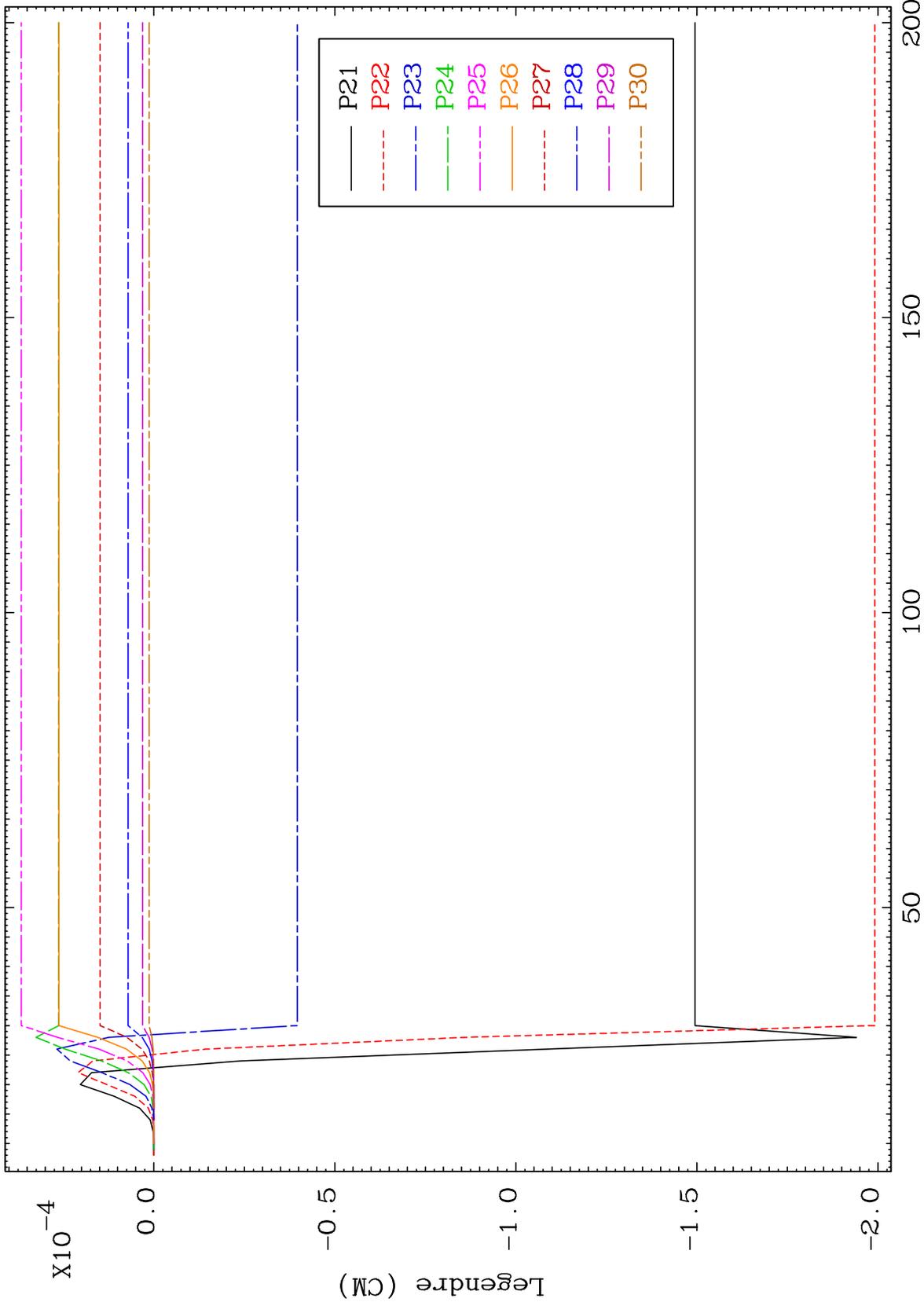
86-Rn-209



MAT 8619

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

86-Rn-209



42

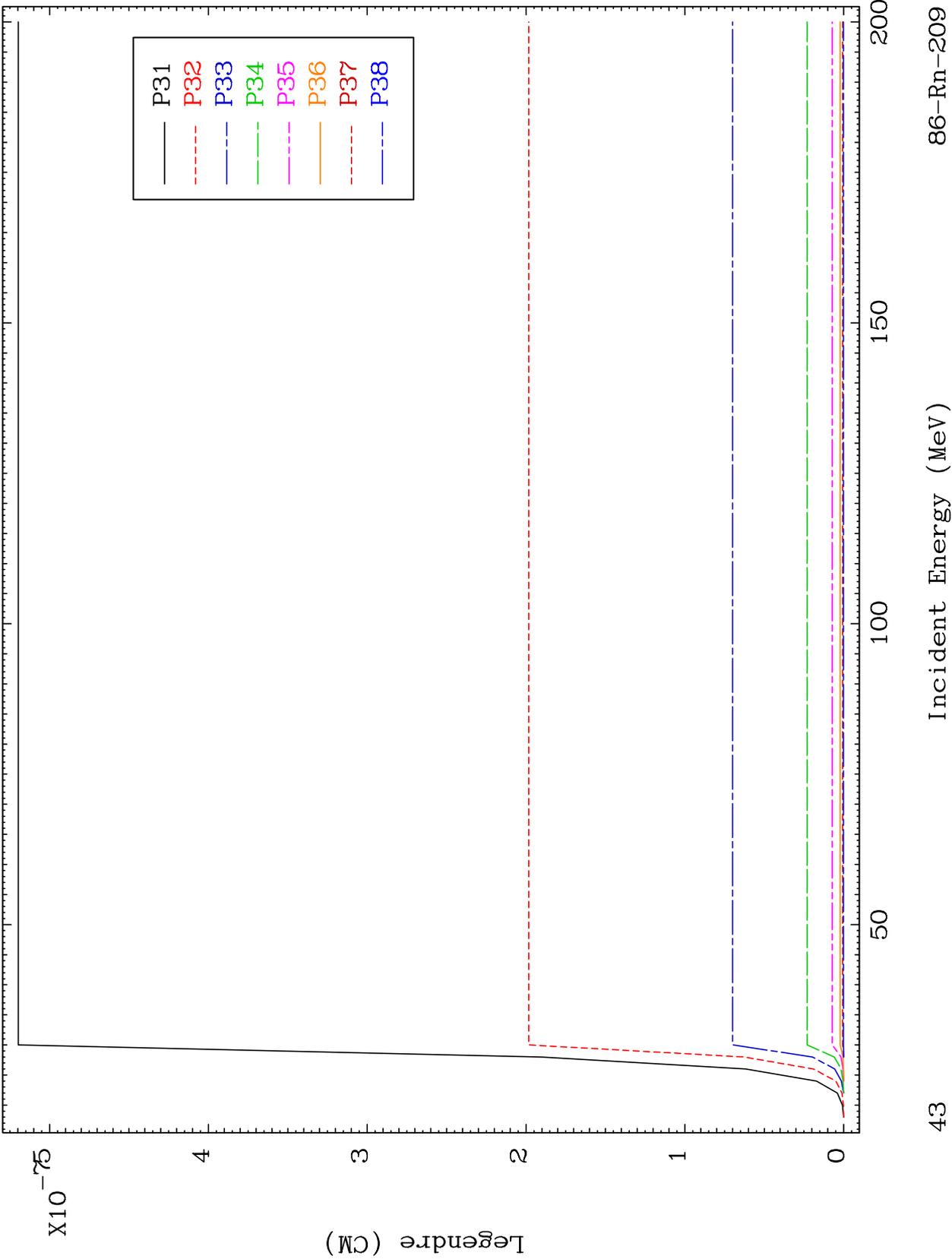
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

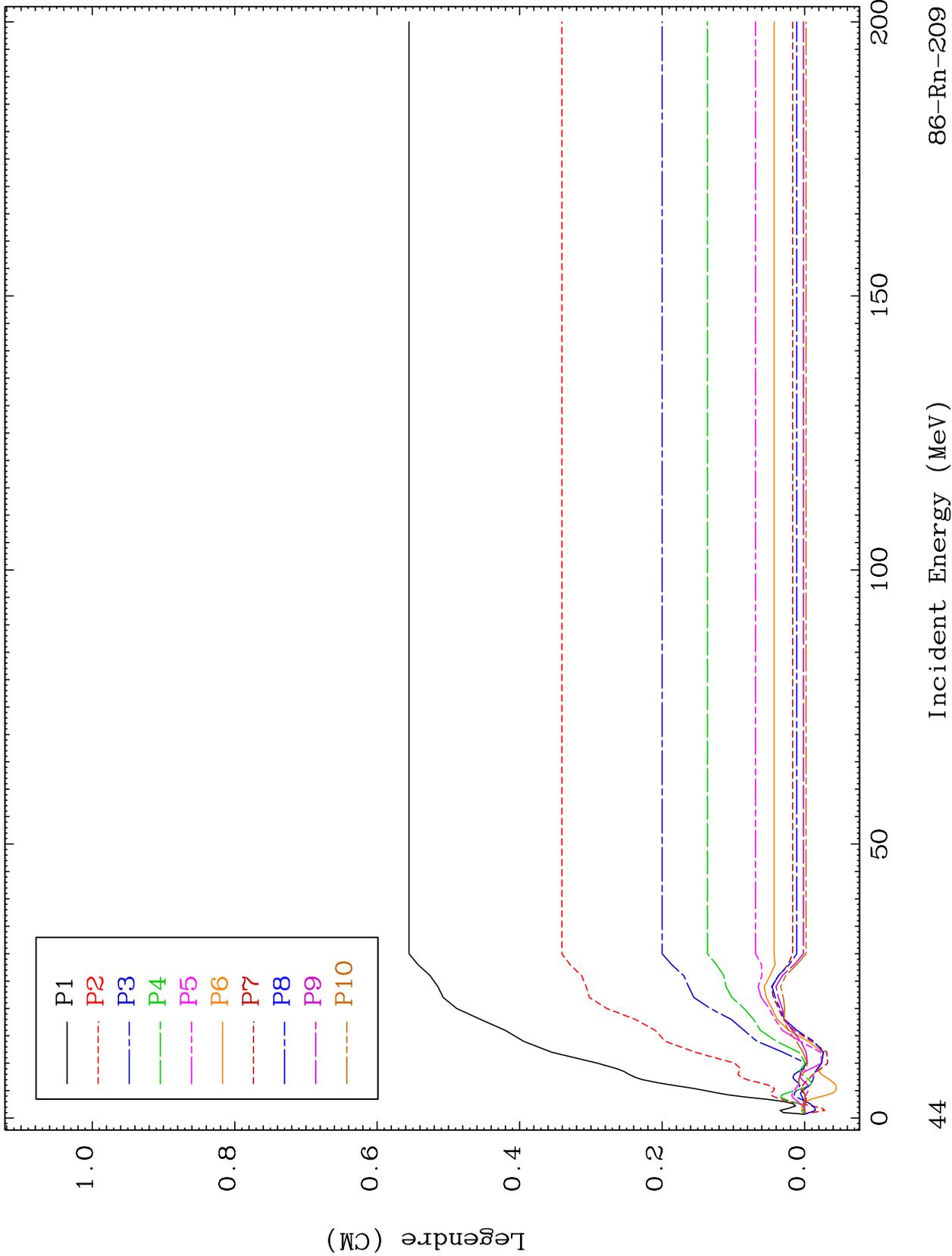
86-Rn-209



43

Incident Energy (MeV)

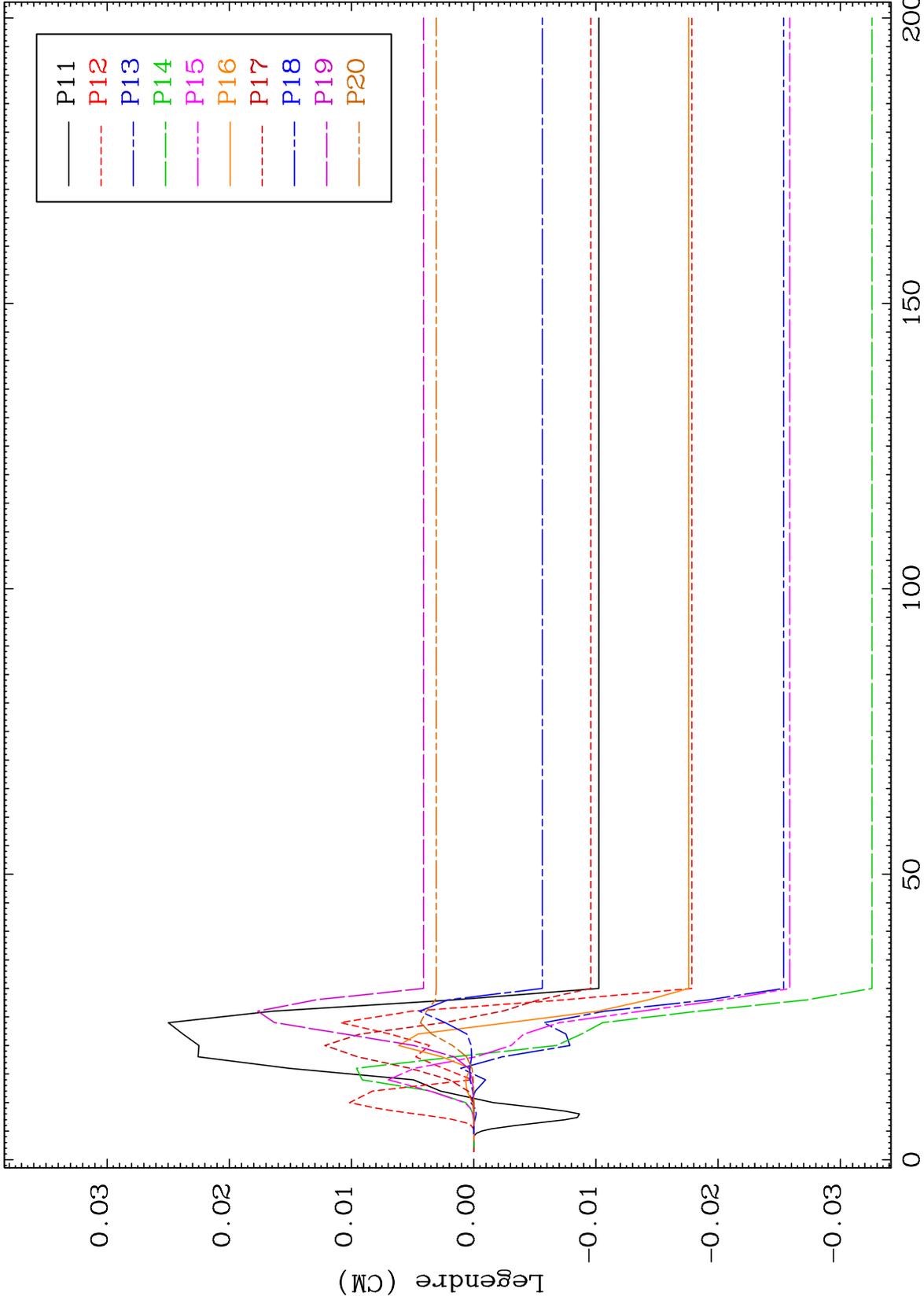
86-Rn-209



MAT 8619

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

86-Rn-209



45

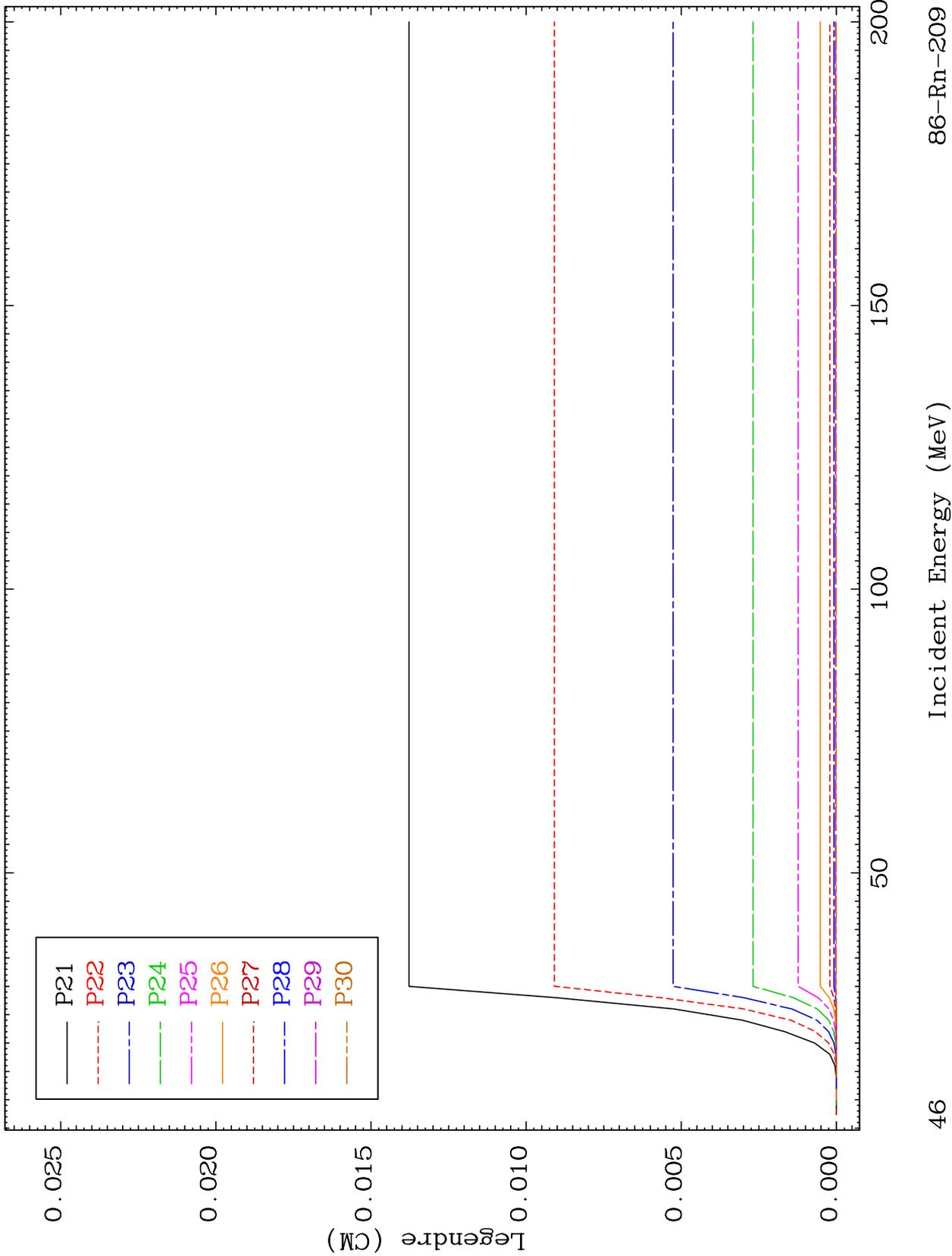
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



46

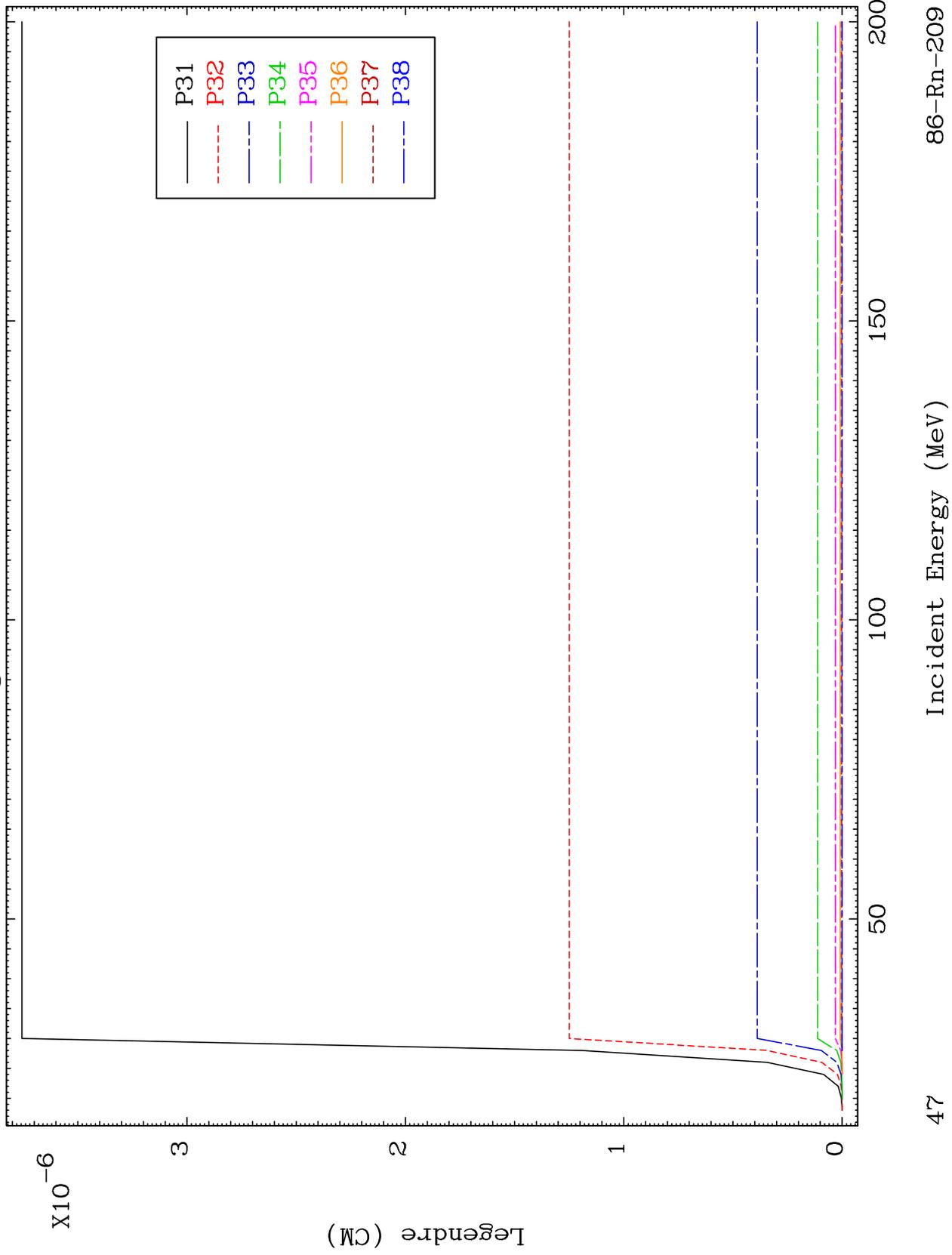
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

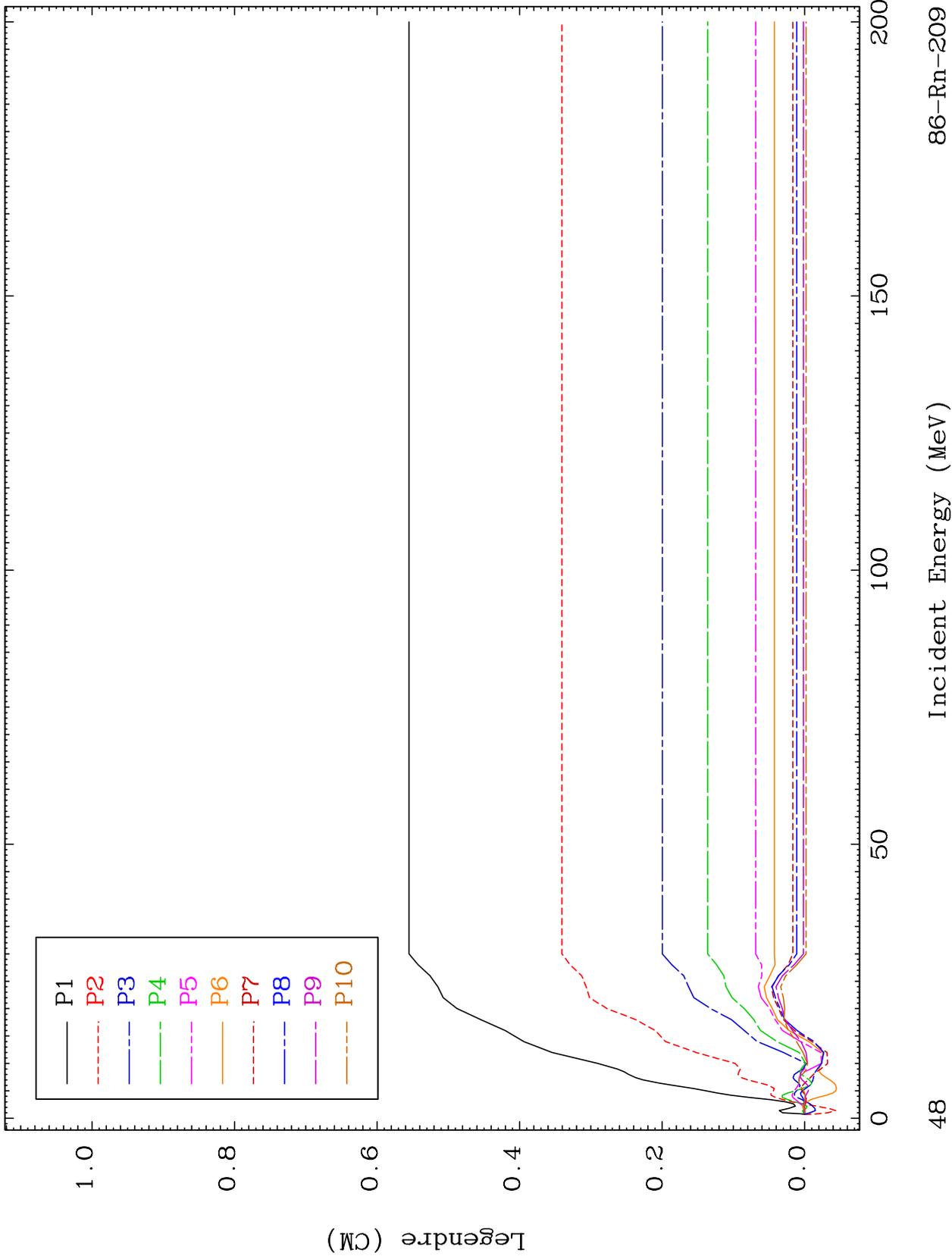
86-Rn-209



MAT 8619

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

86-Rn-209



86-Rn-209

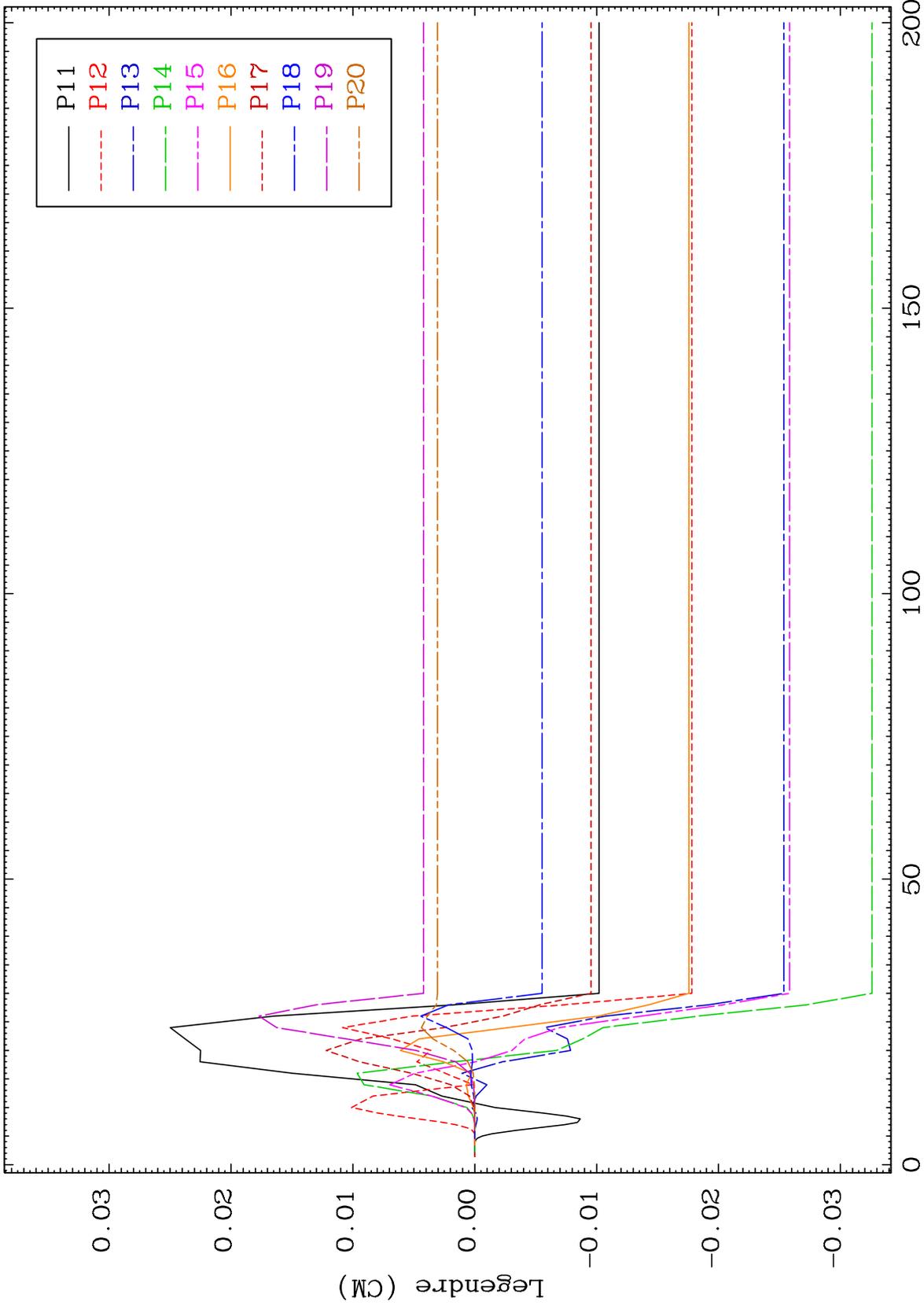
Incident Energy (MeV)

48

MAT 8619

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

86-Rn-209



49

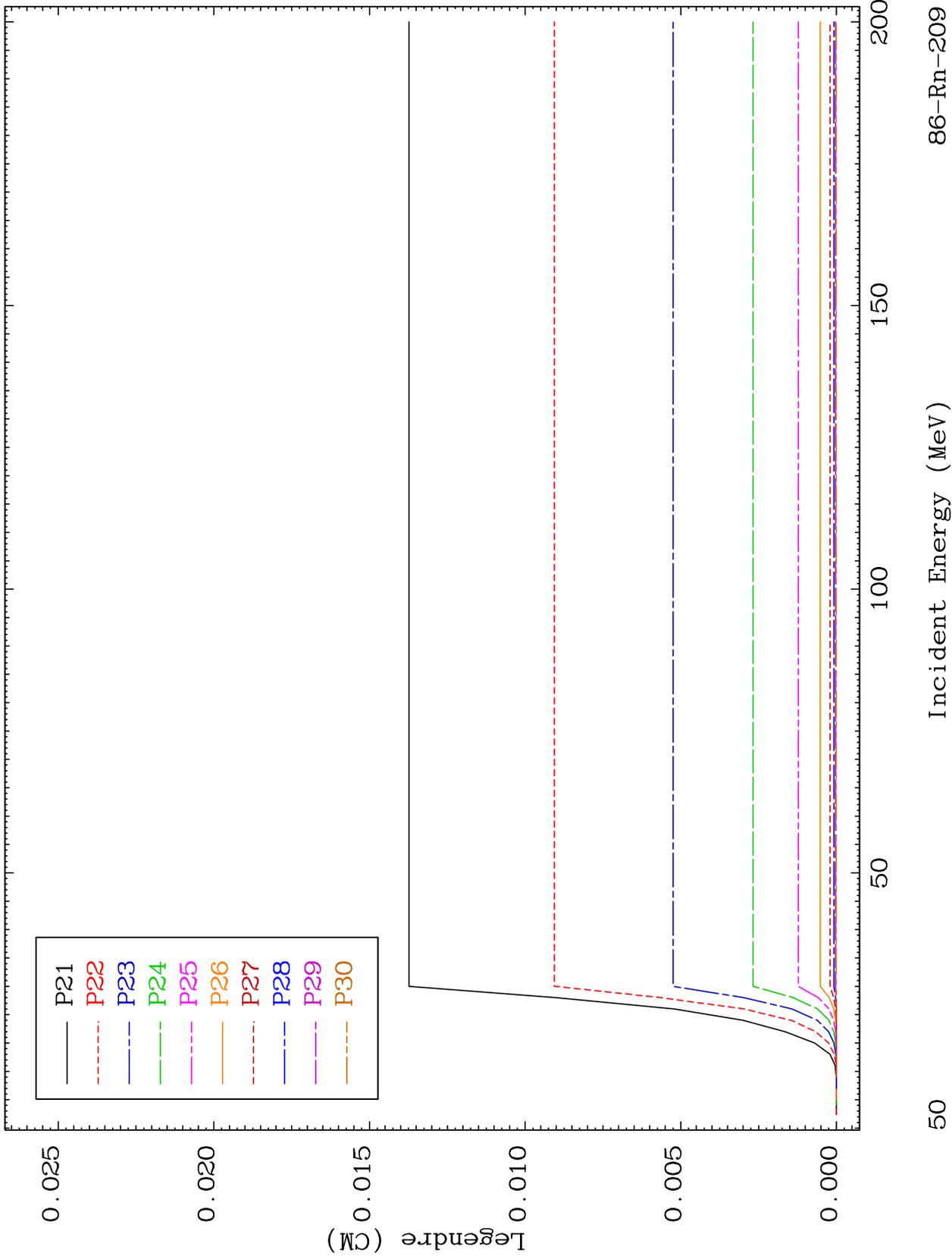
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



86-Rn-209

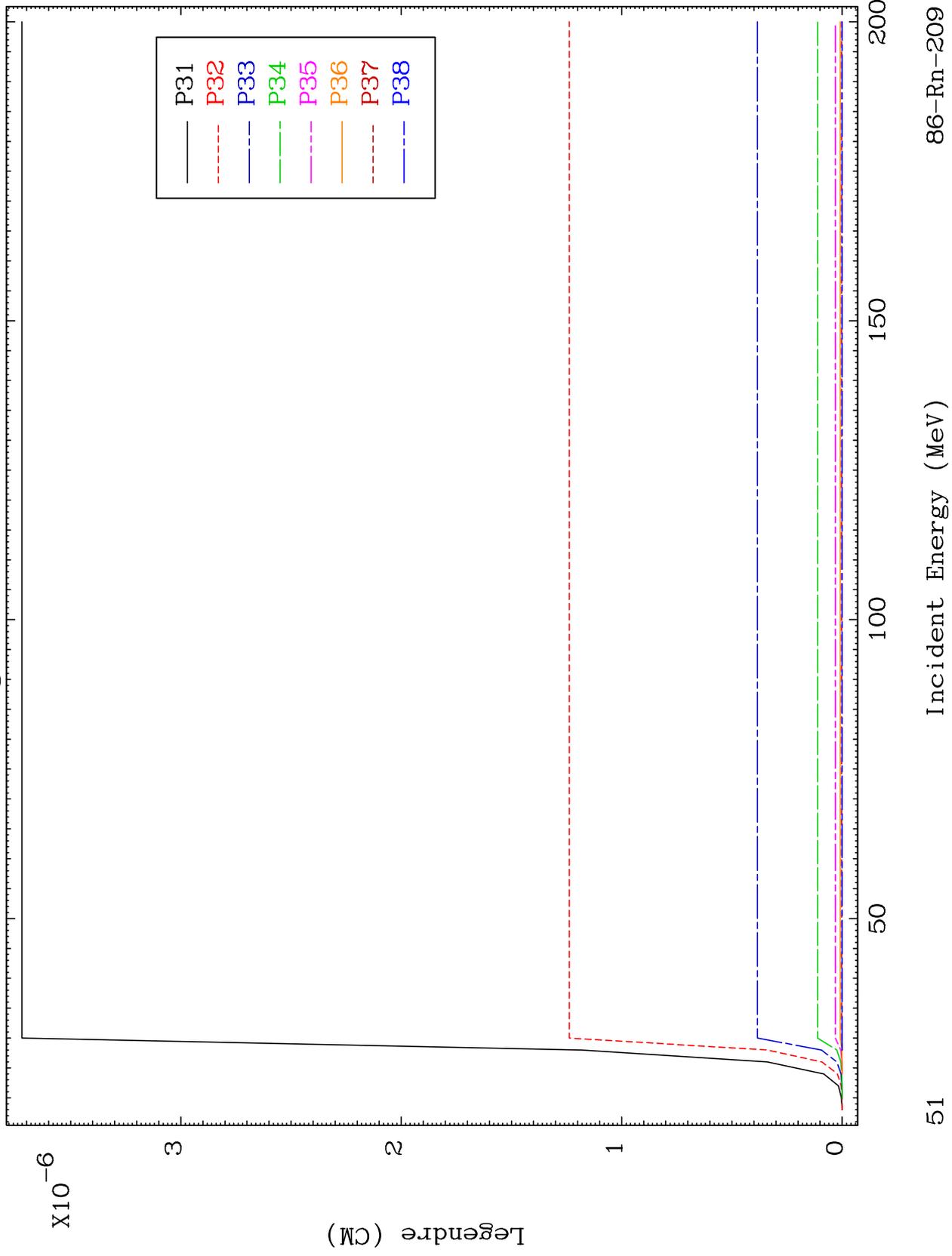
Incident Energy (MeV)

50

MAT 8619

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

86-Rn-209



51

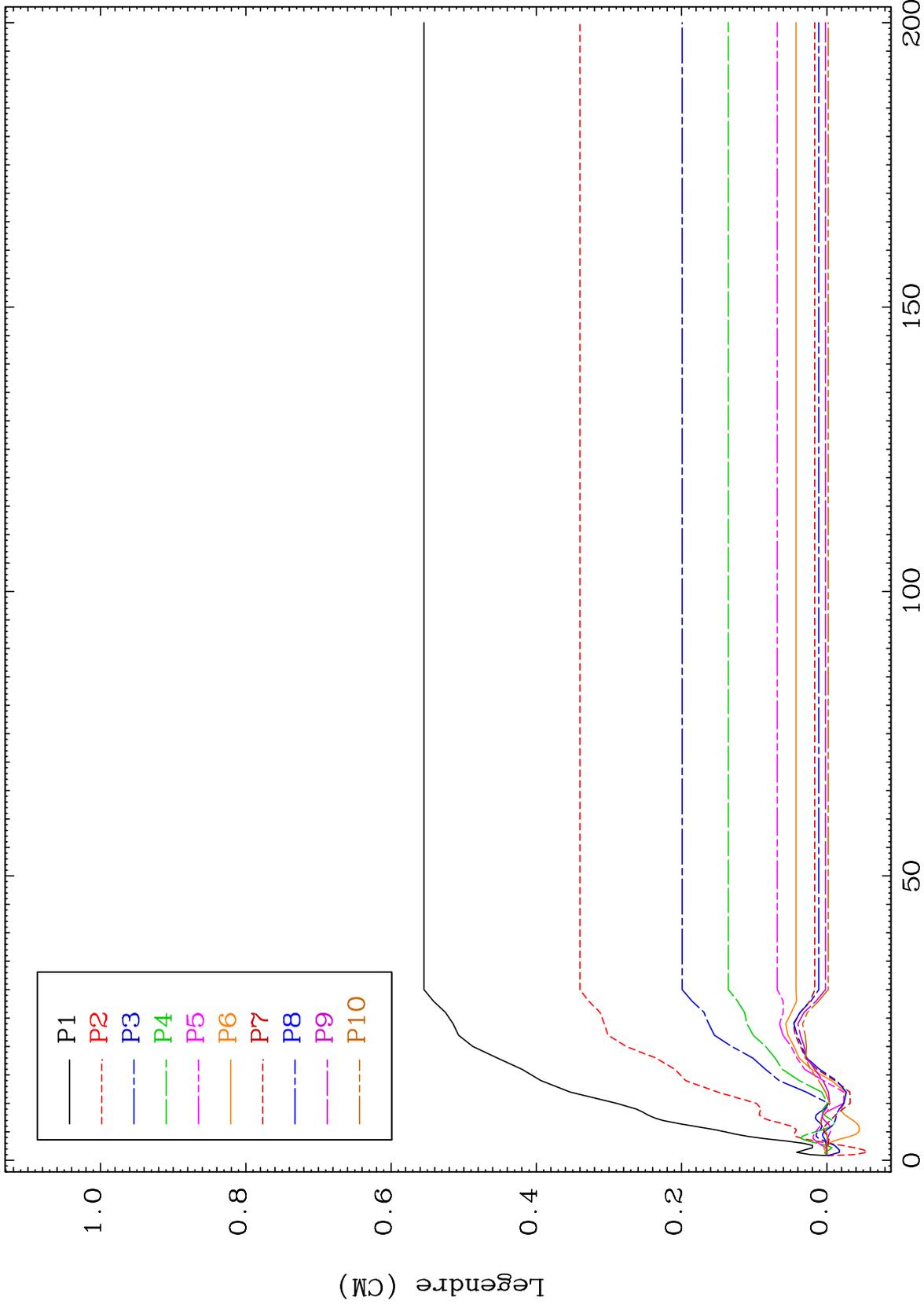
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



86-Rn-209

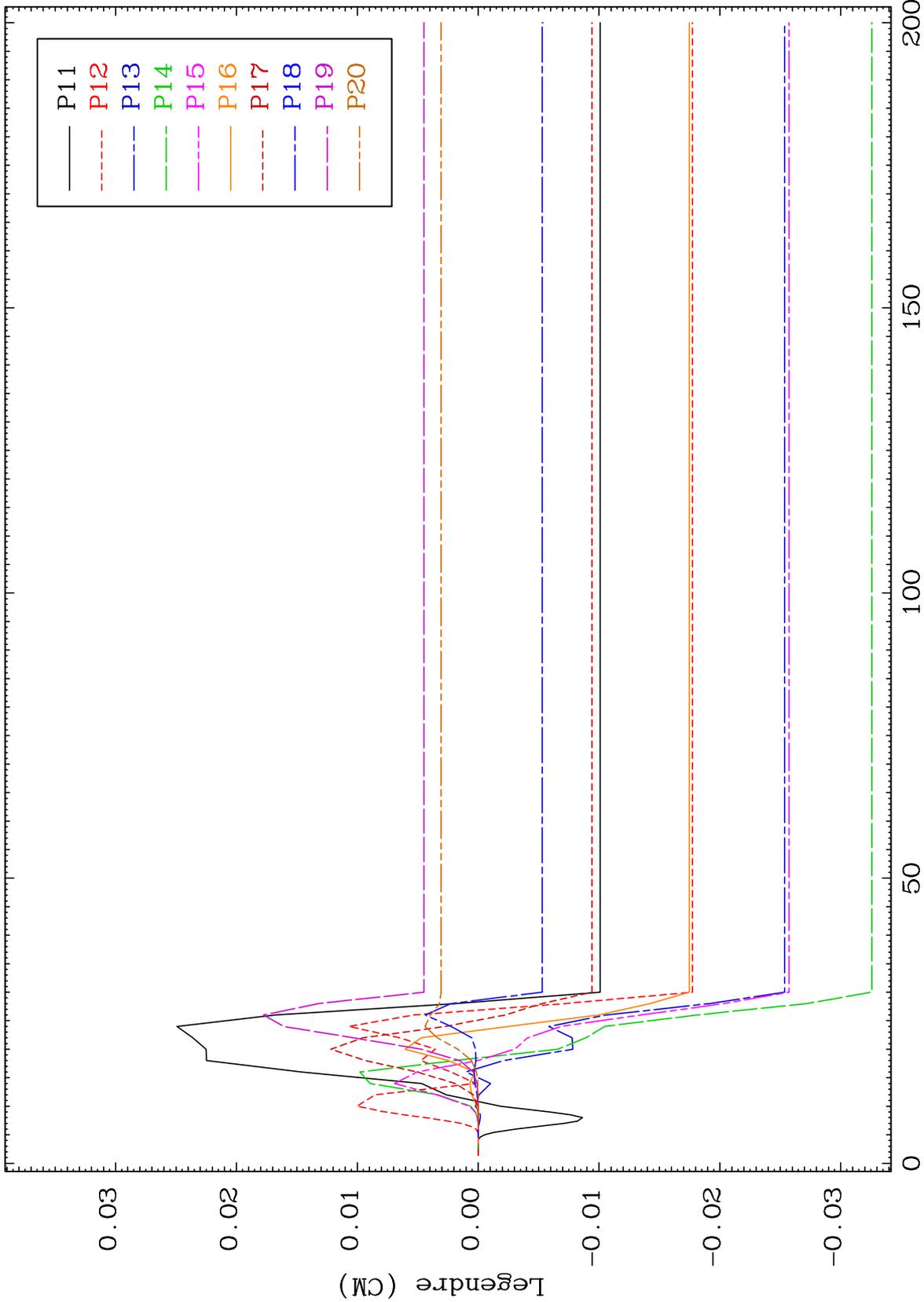
Incident Energy (MeV)

52

MAT 8619

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

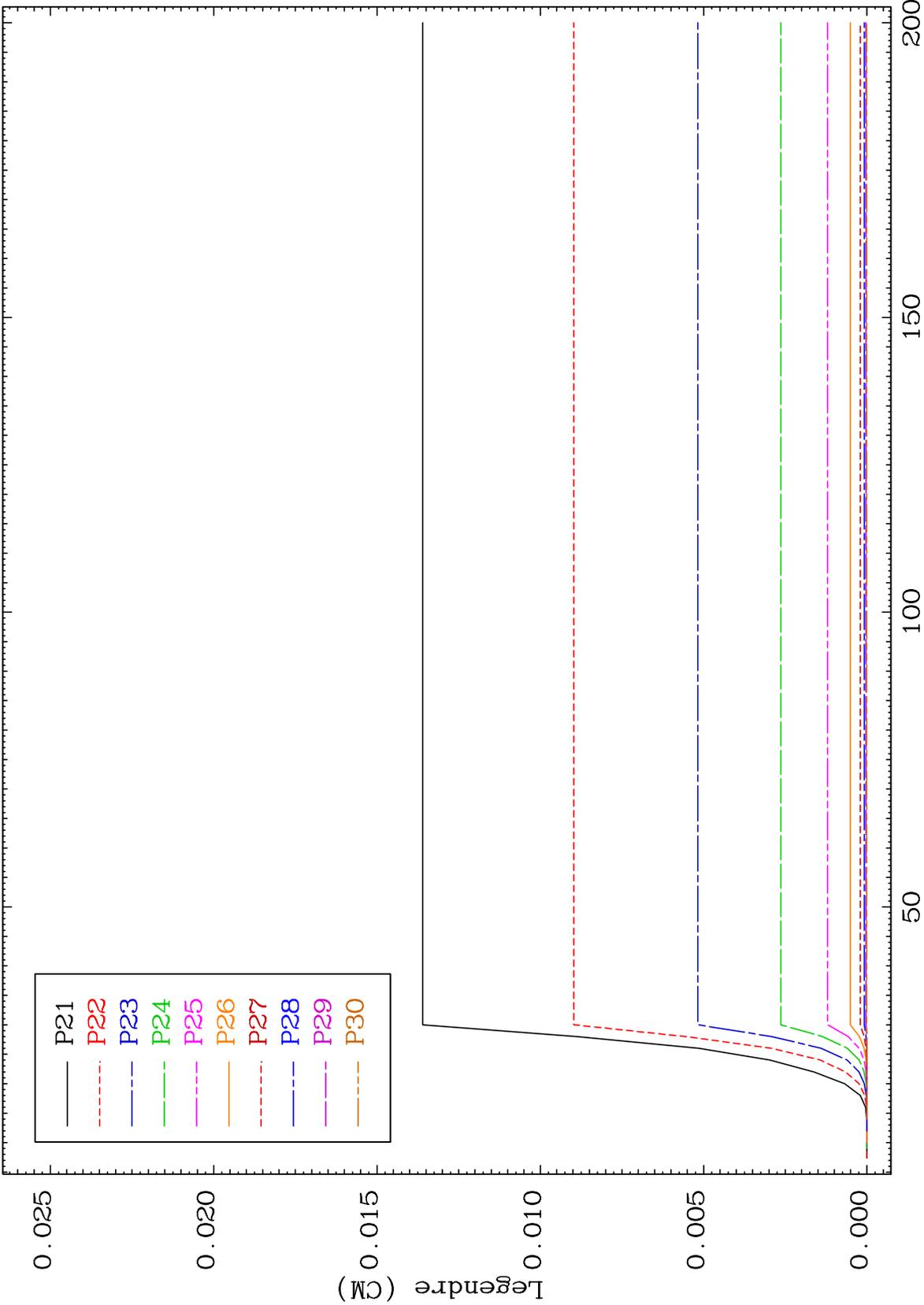
86-Rn-209



53

Incident Energy (MeV)

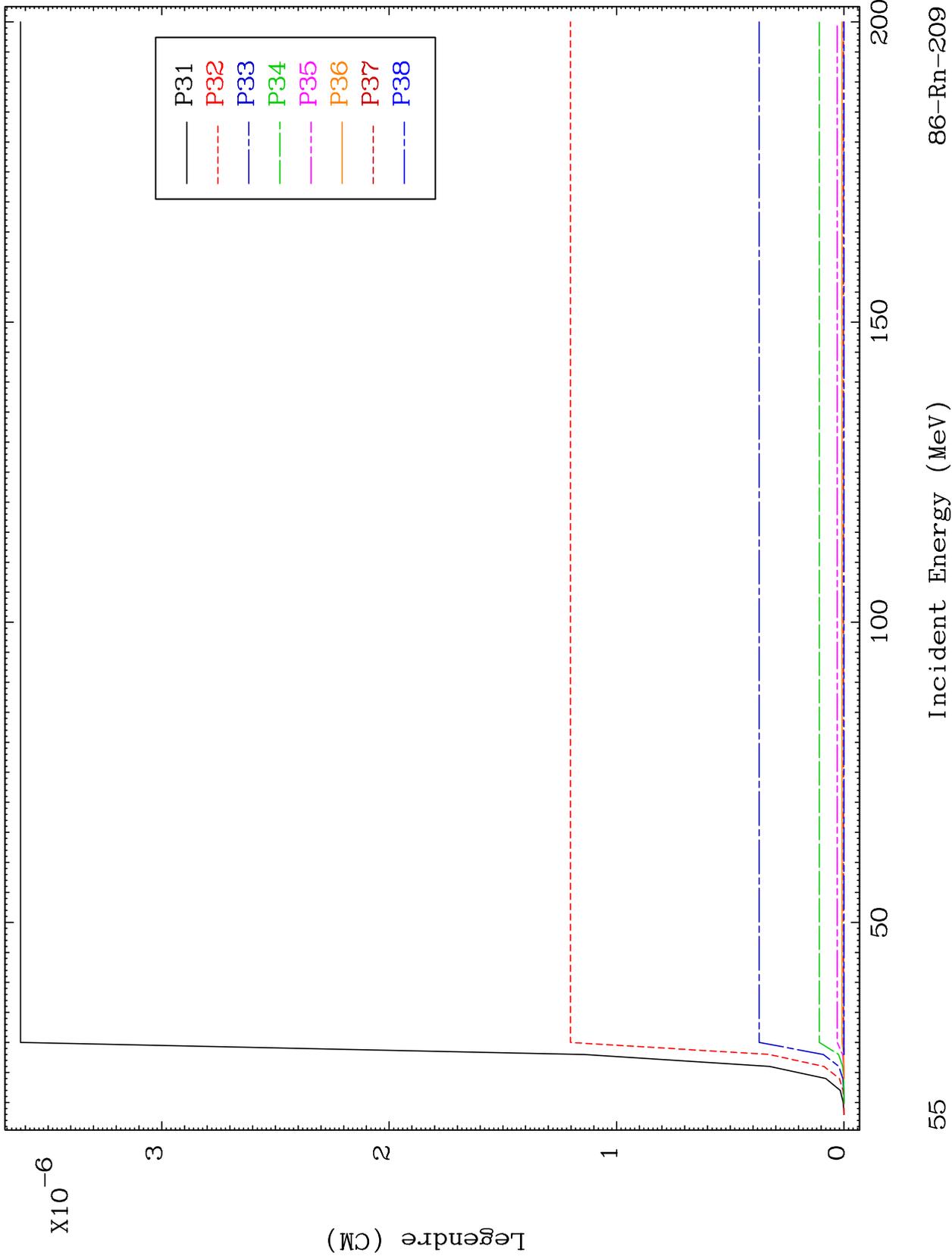
86-Rn-209



MAT 8619

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

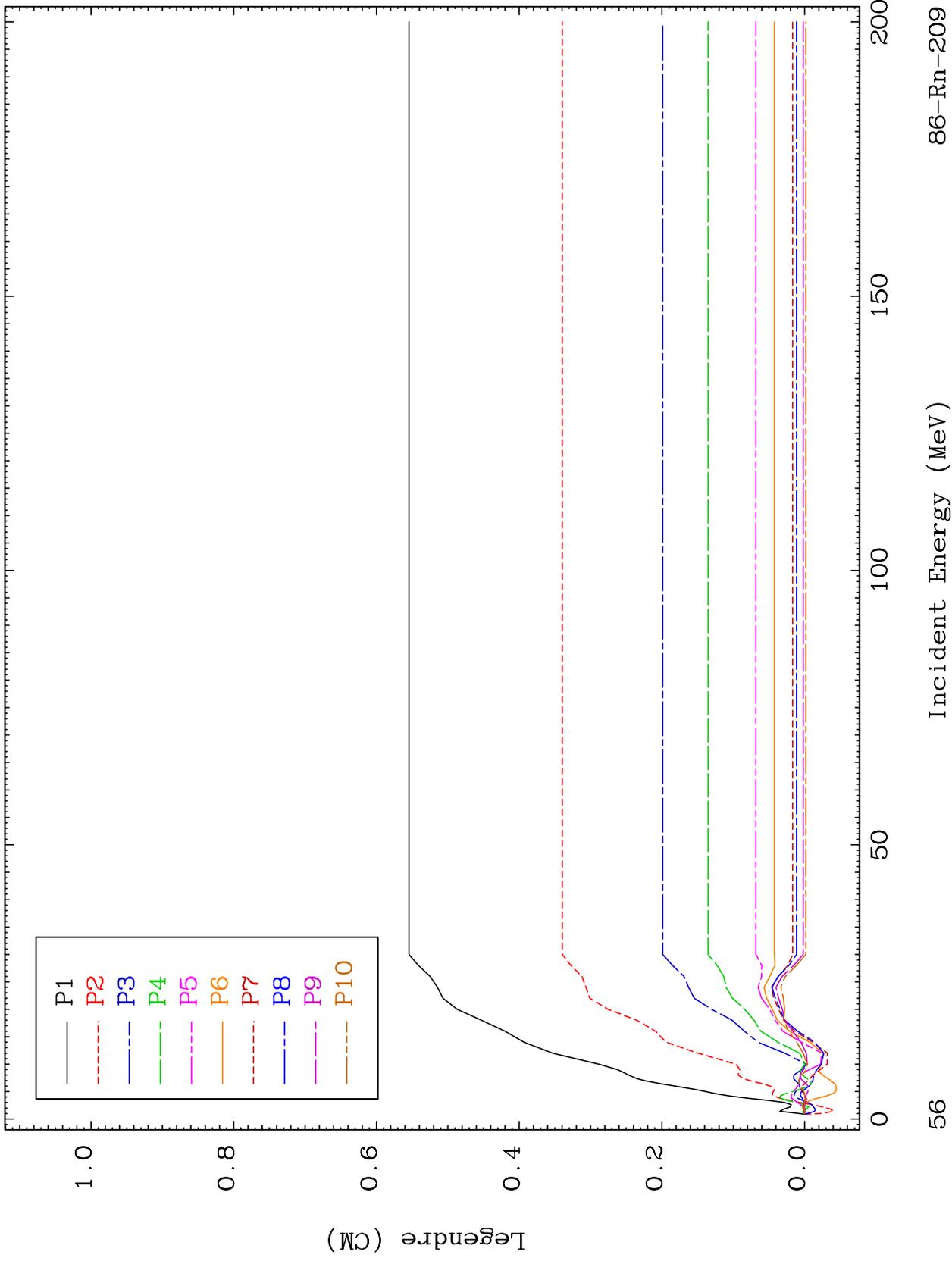
86-Rn-209



MAT 8619

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

86-Rn-209



56

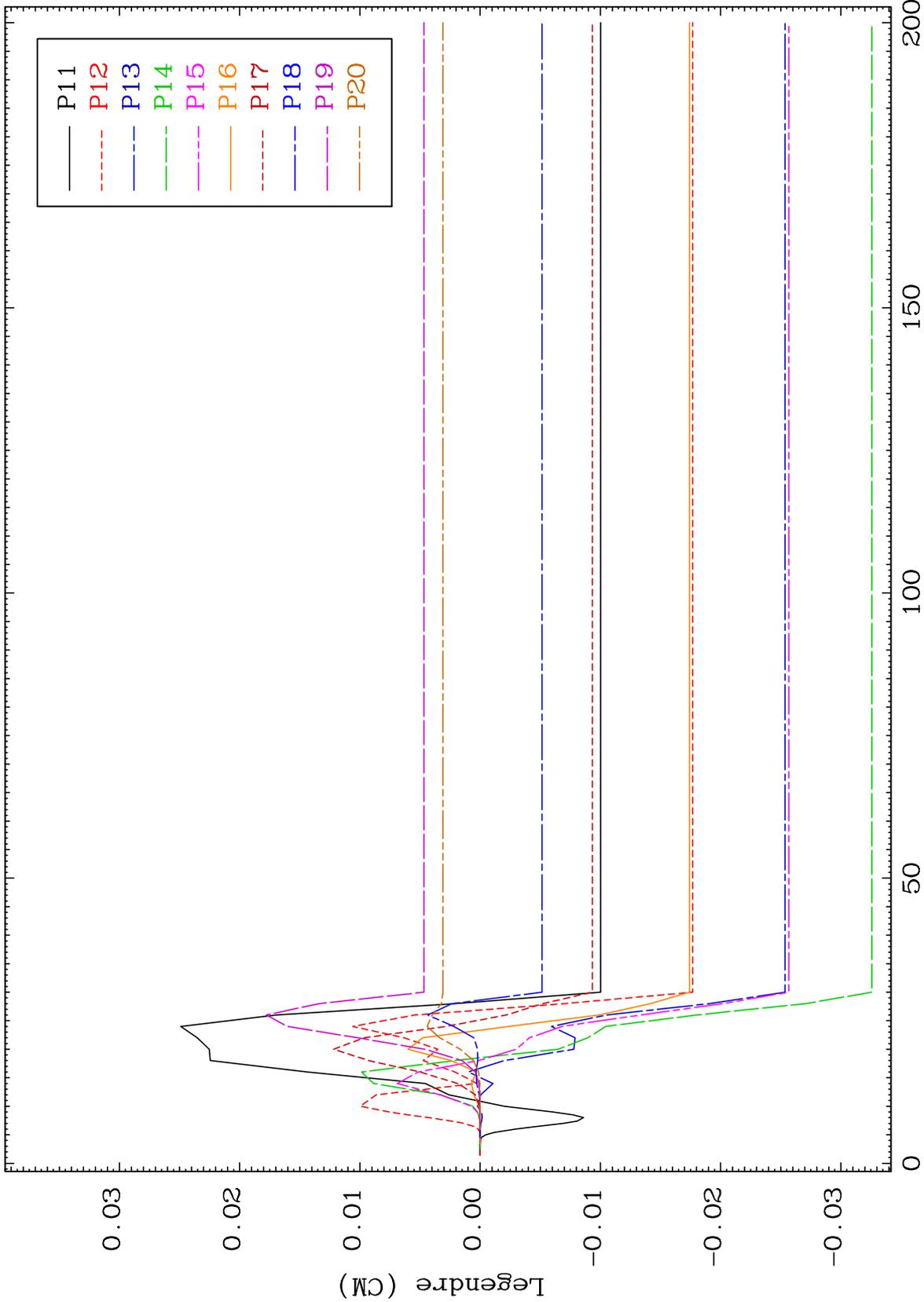
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



57

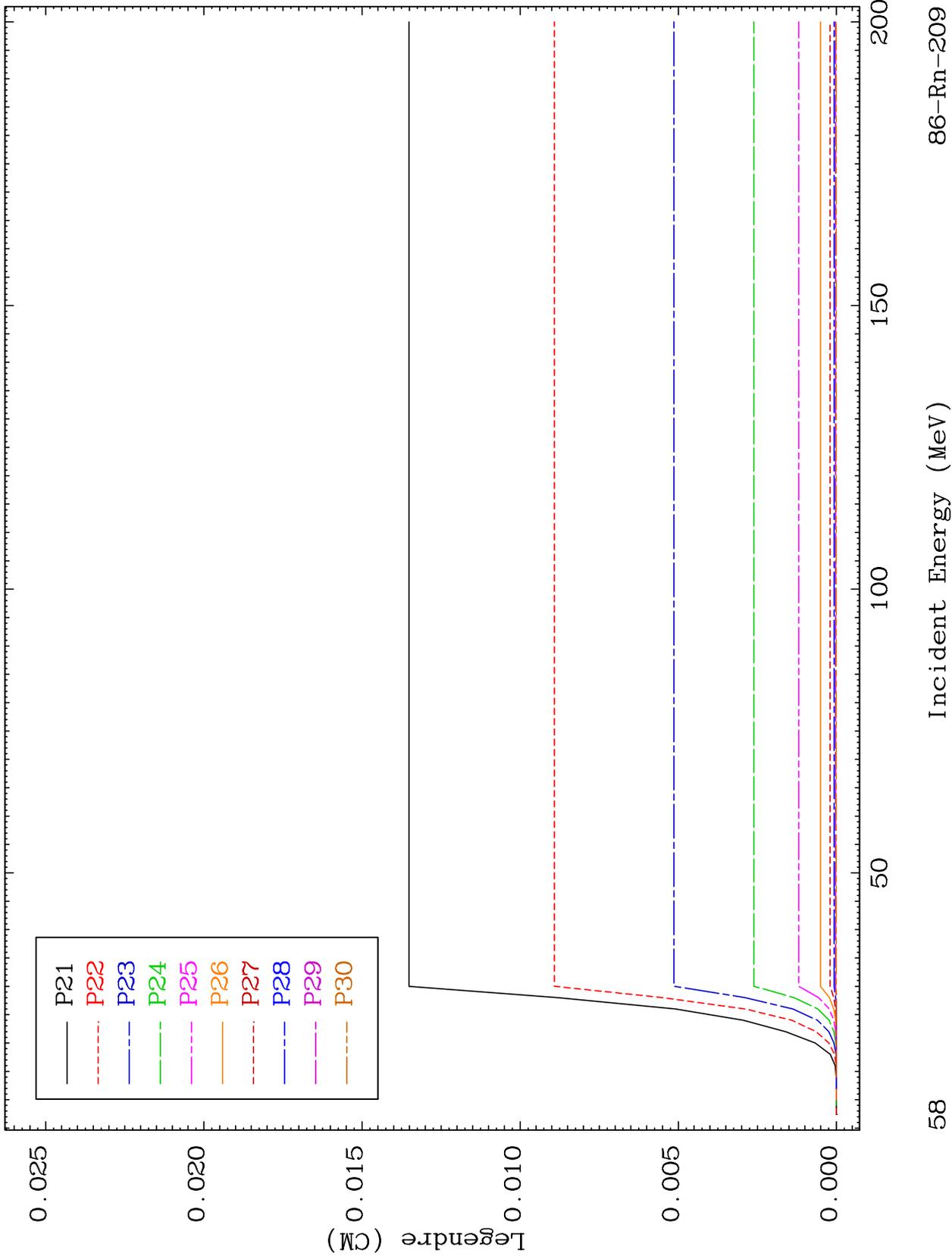
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



58

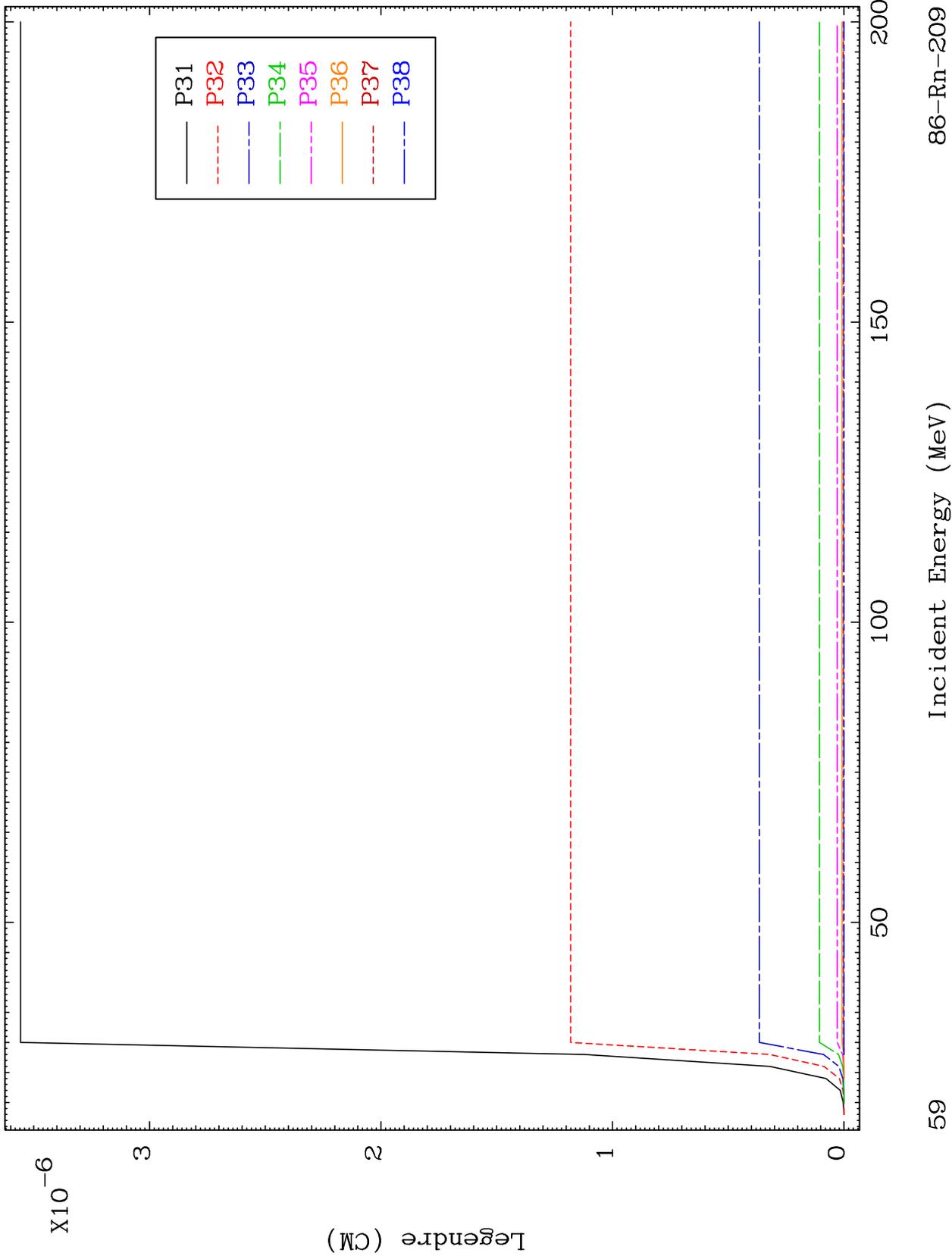
Incident Energy (MeV)

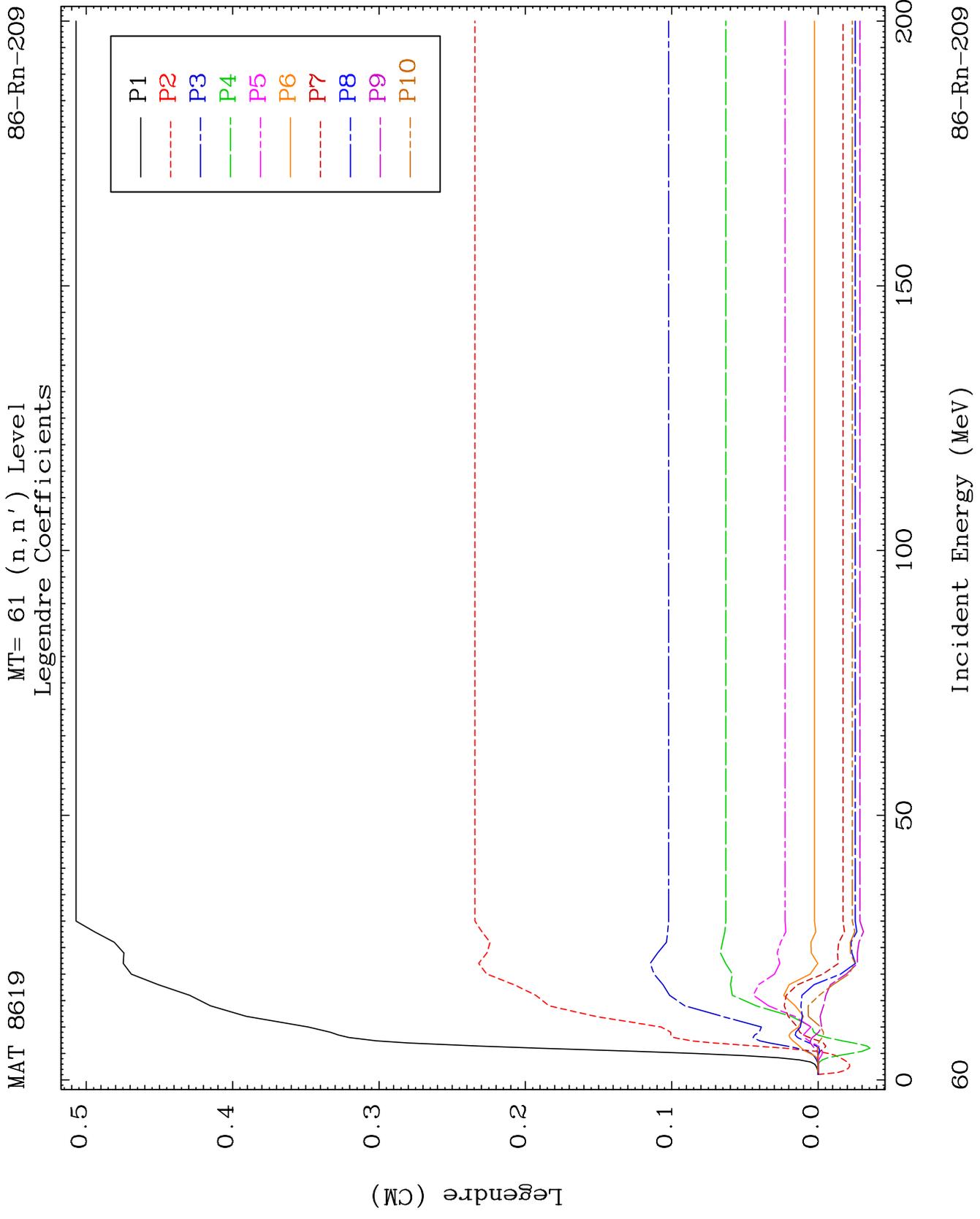
86-Rn-209

MAT 8619

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

86-Rn-209

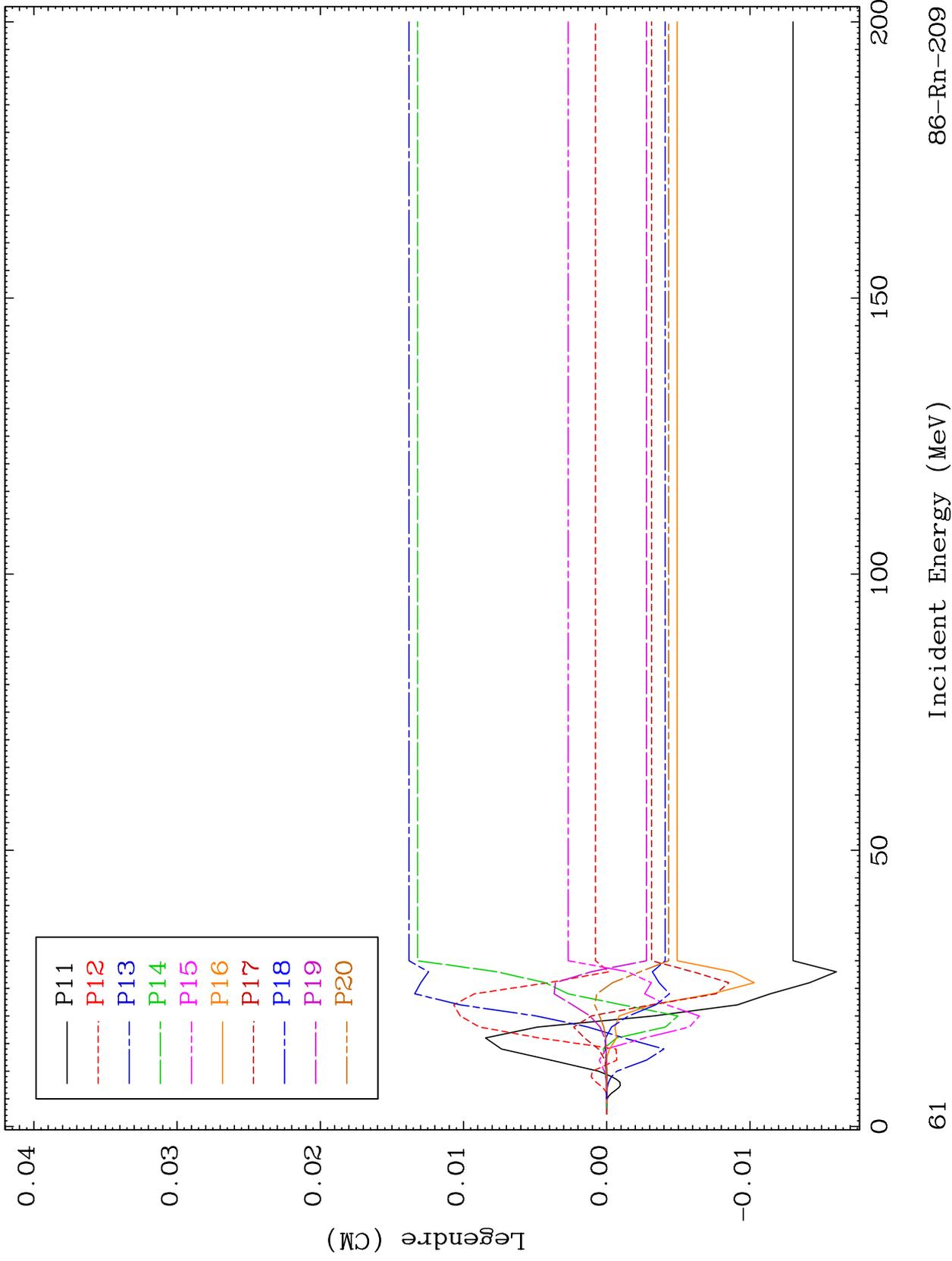




MAT 8619

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

86-Rn-209



61

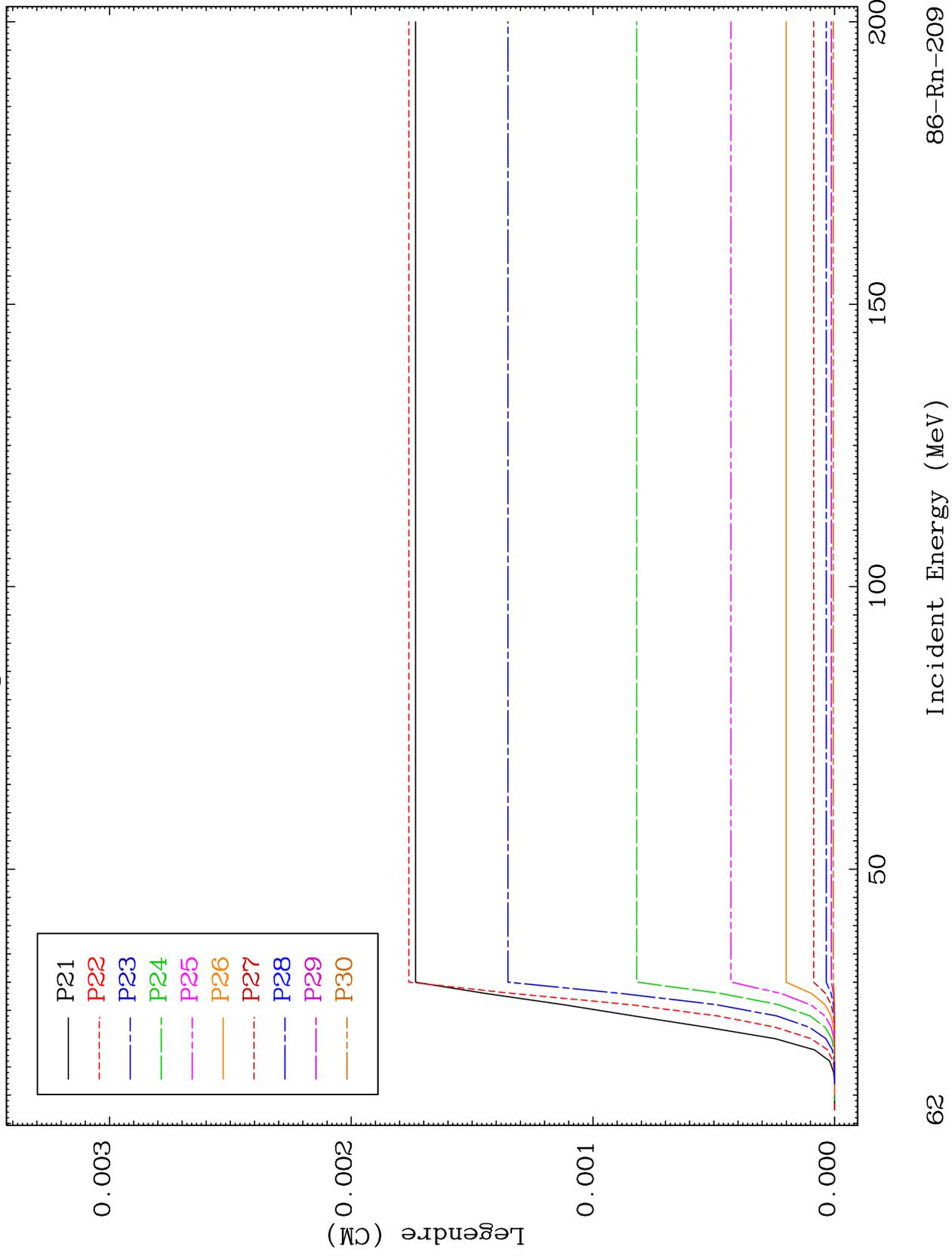
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



62

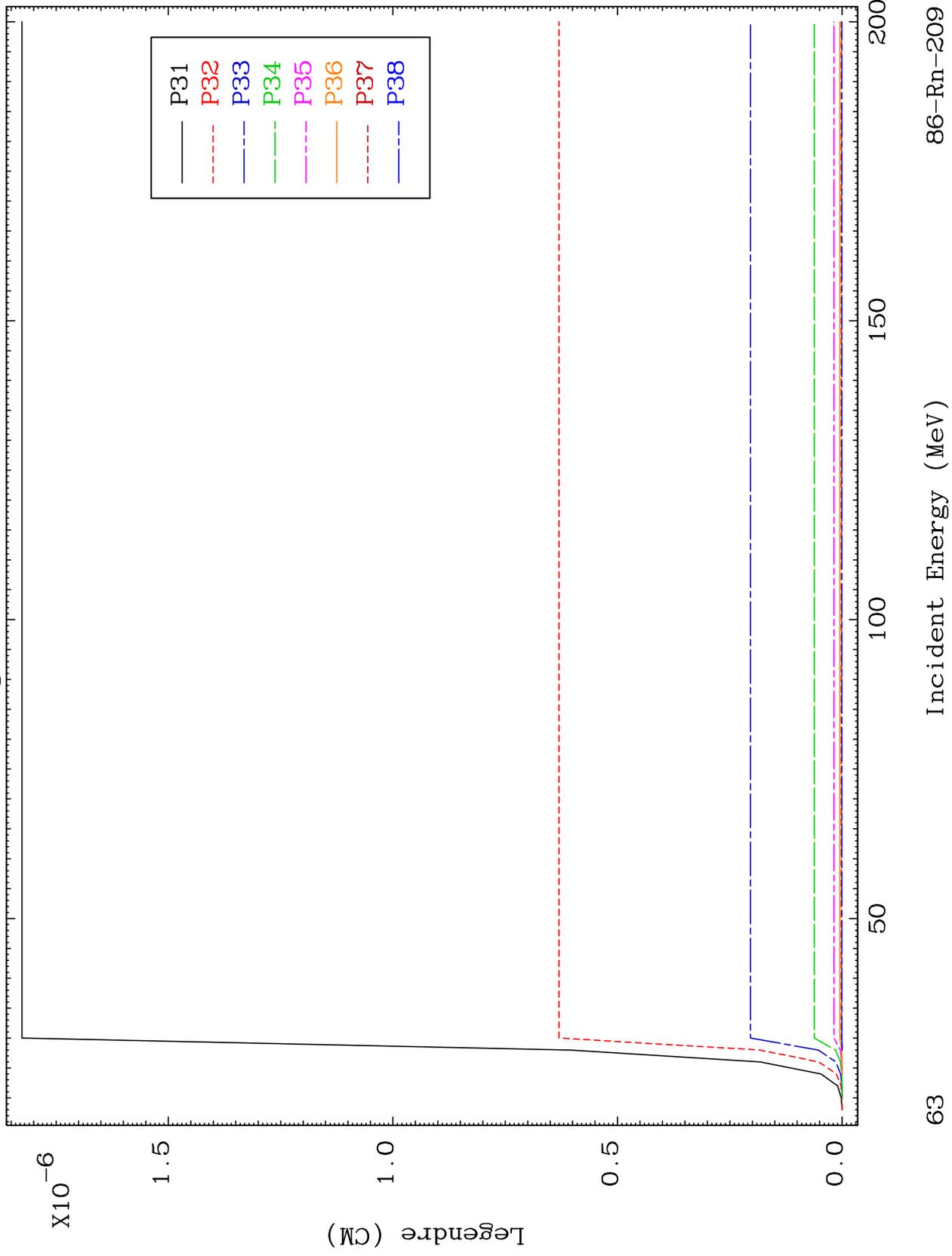
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



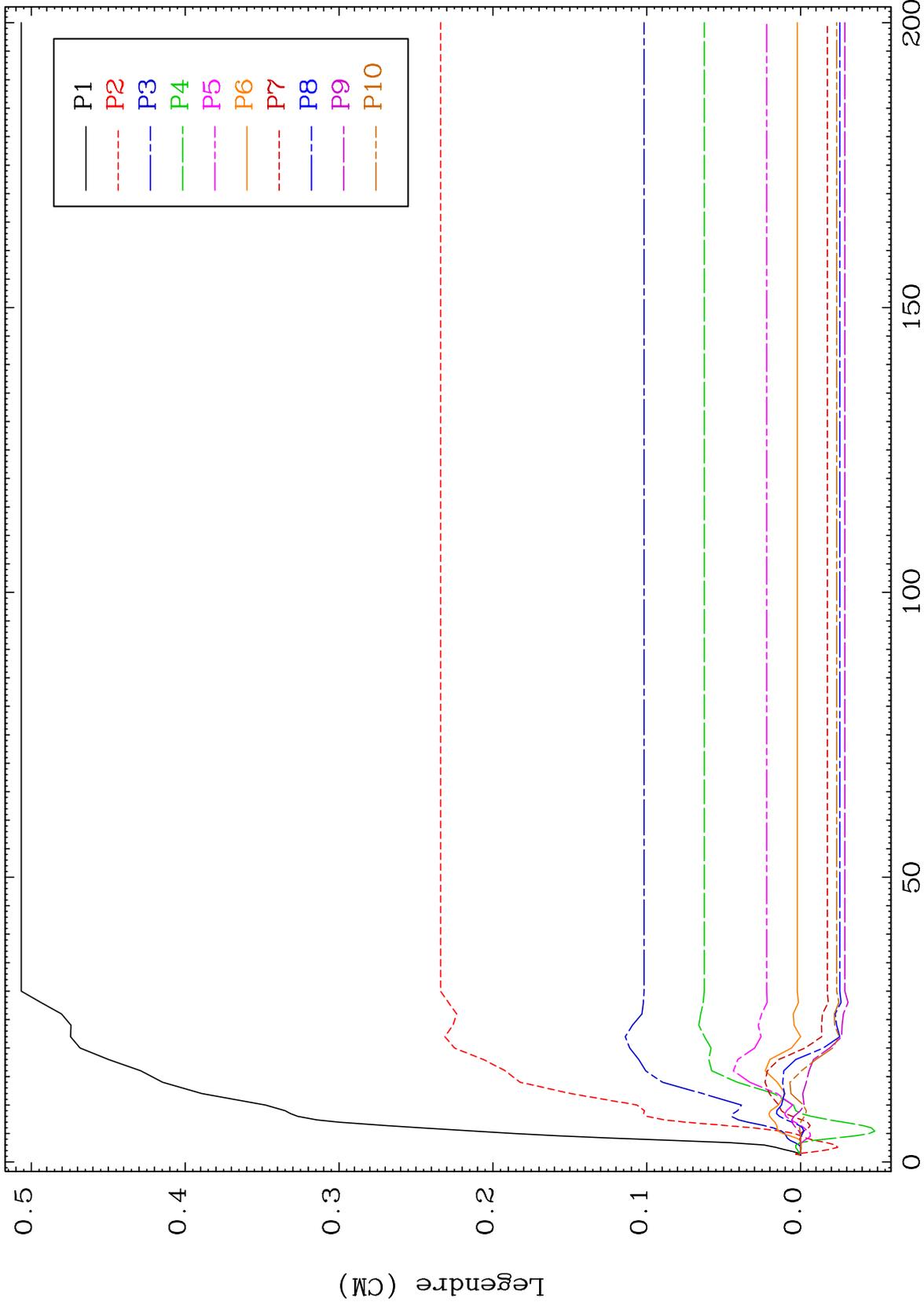
63

86-Rn-209

MAT 8619

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

86-Rn-209



64

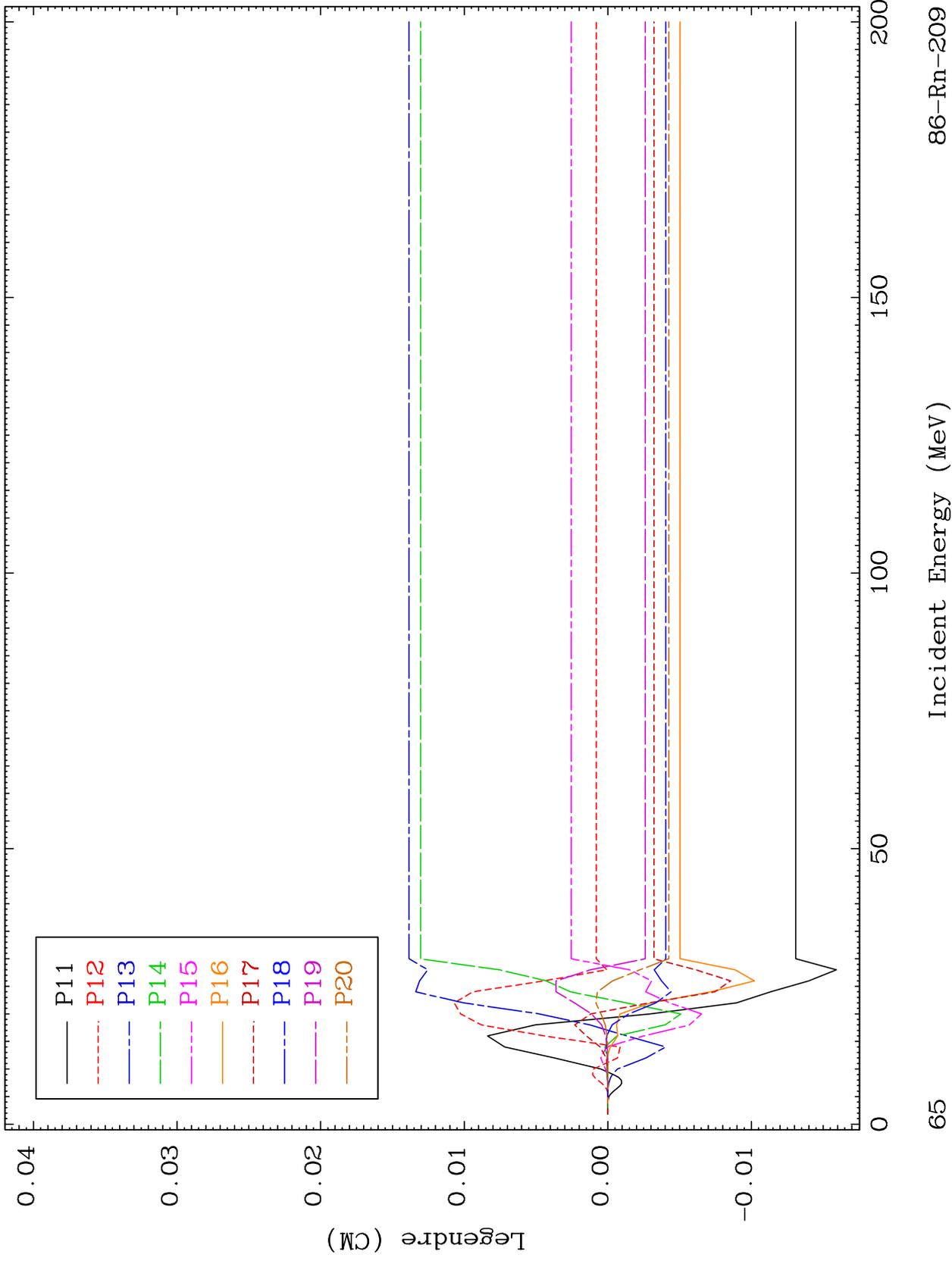
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



86-Rn-209

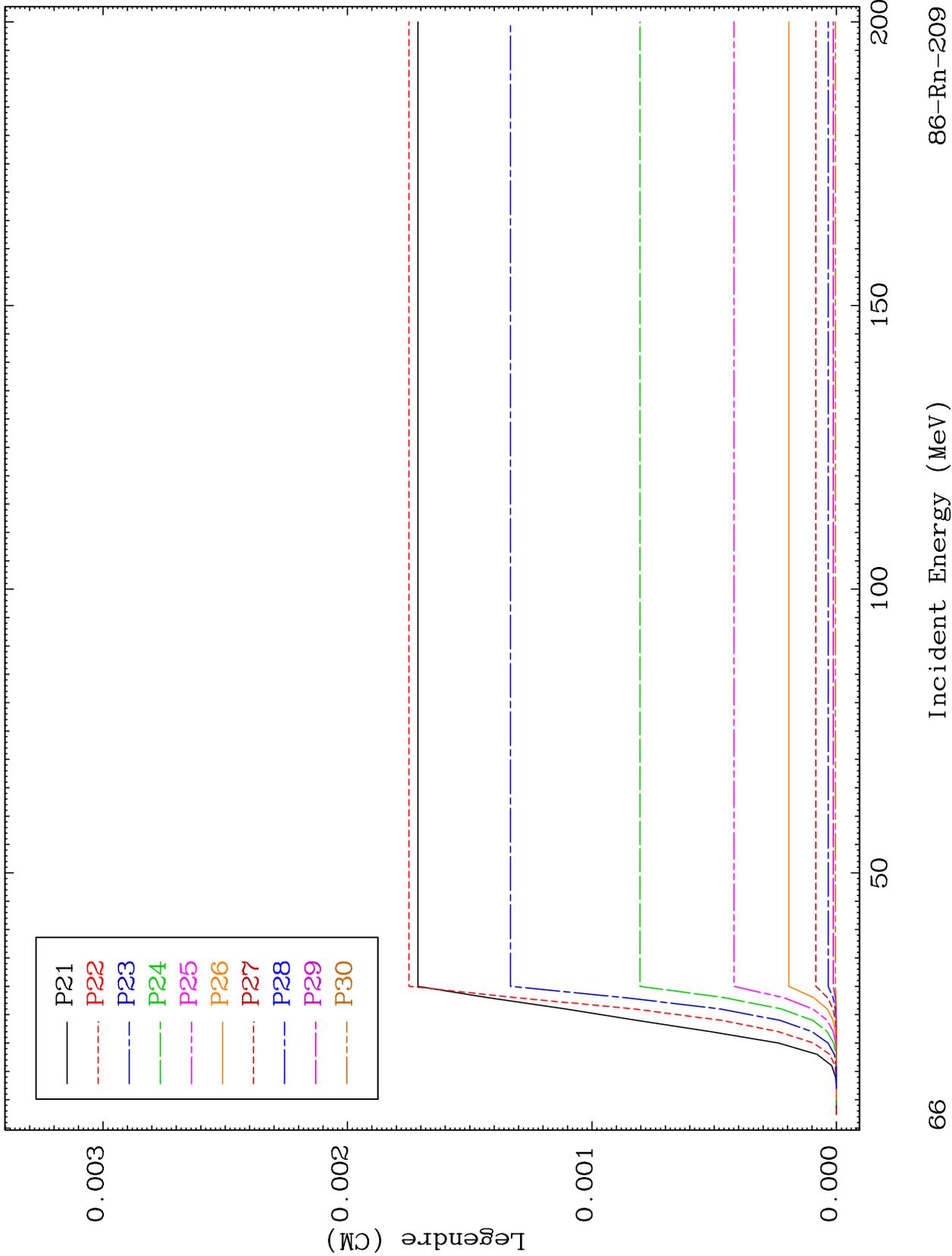
Incident Energy (MeV)

65

MAT 8619

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

86-Rn-209



66

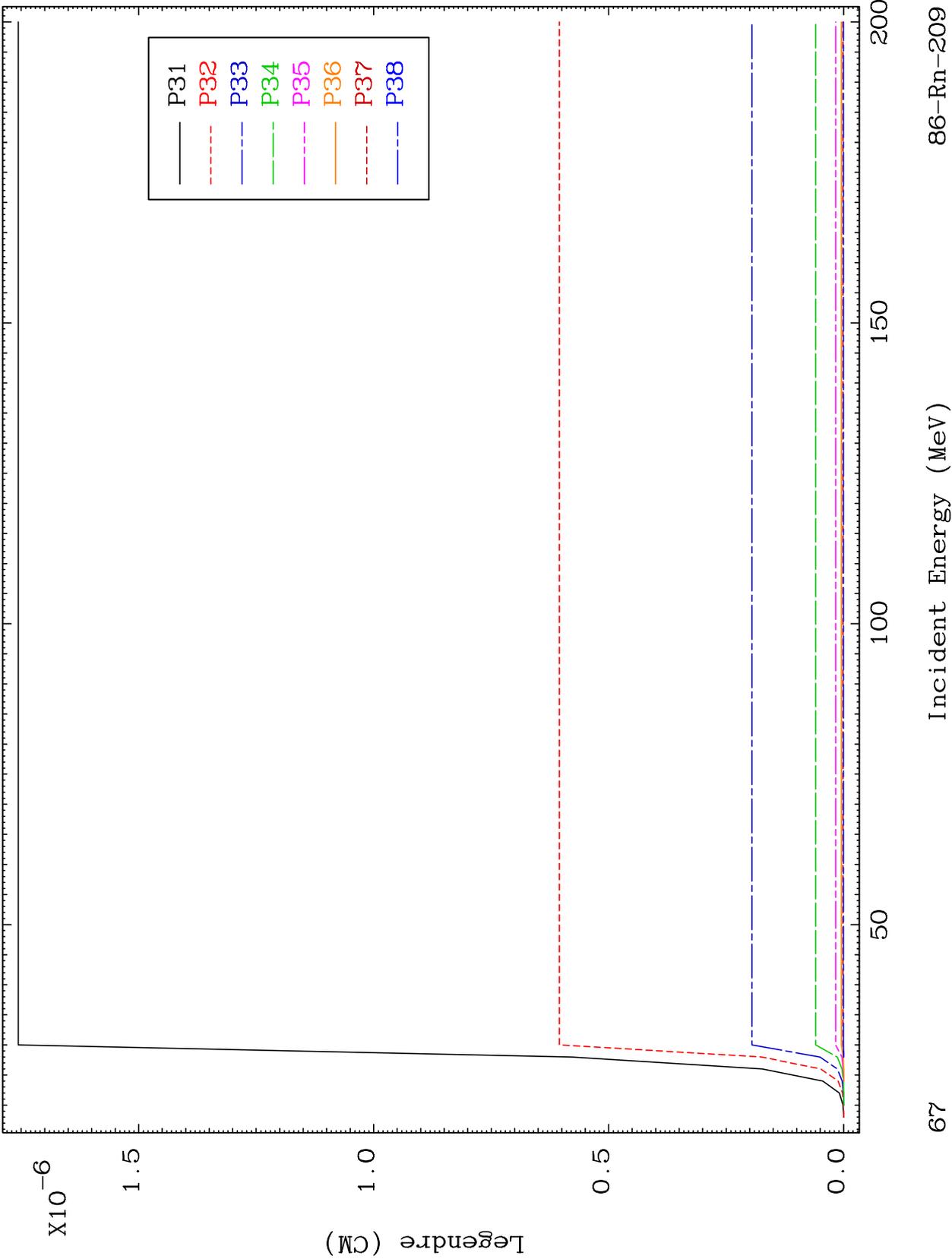
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209

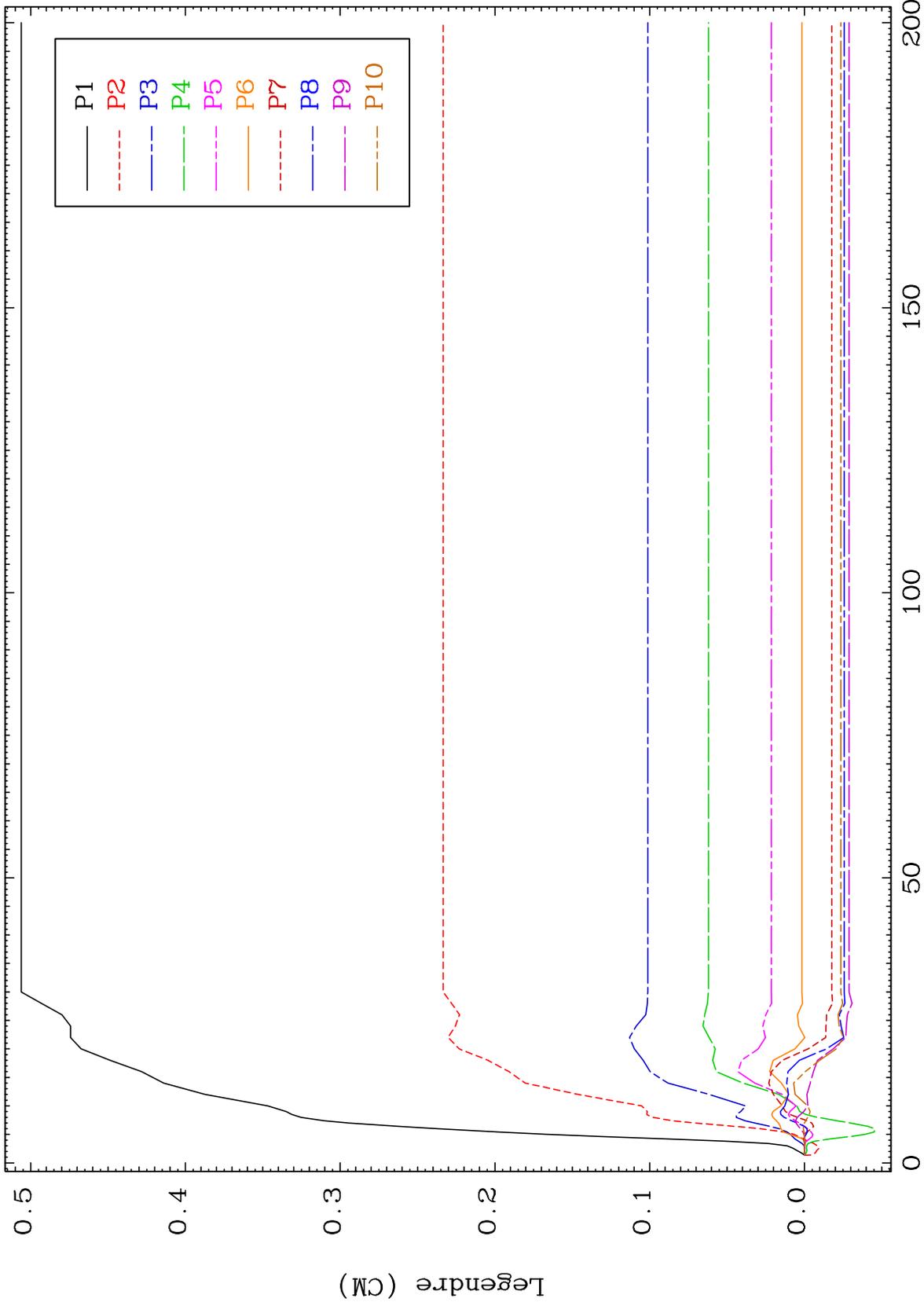


MAT 8619

MT= 63 (n,n') Level

86-Rn-209

Legendre Coefficients



68

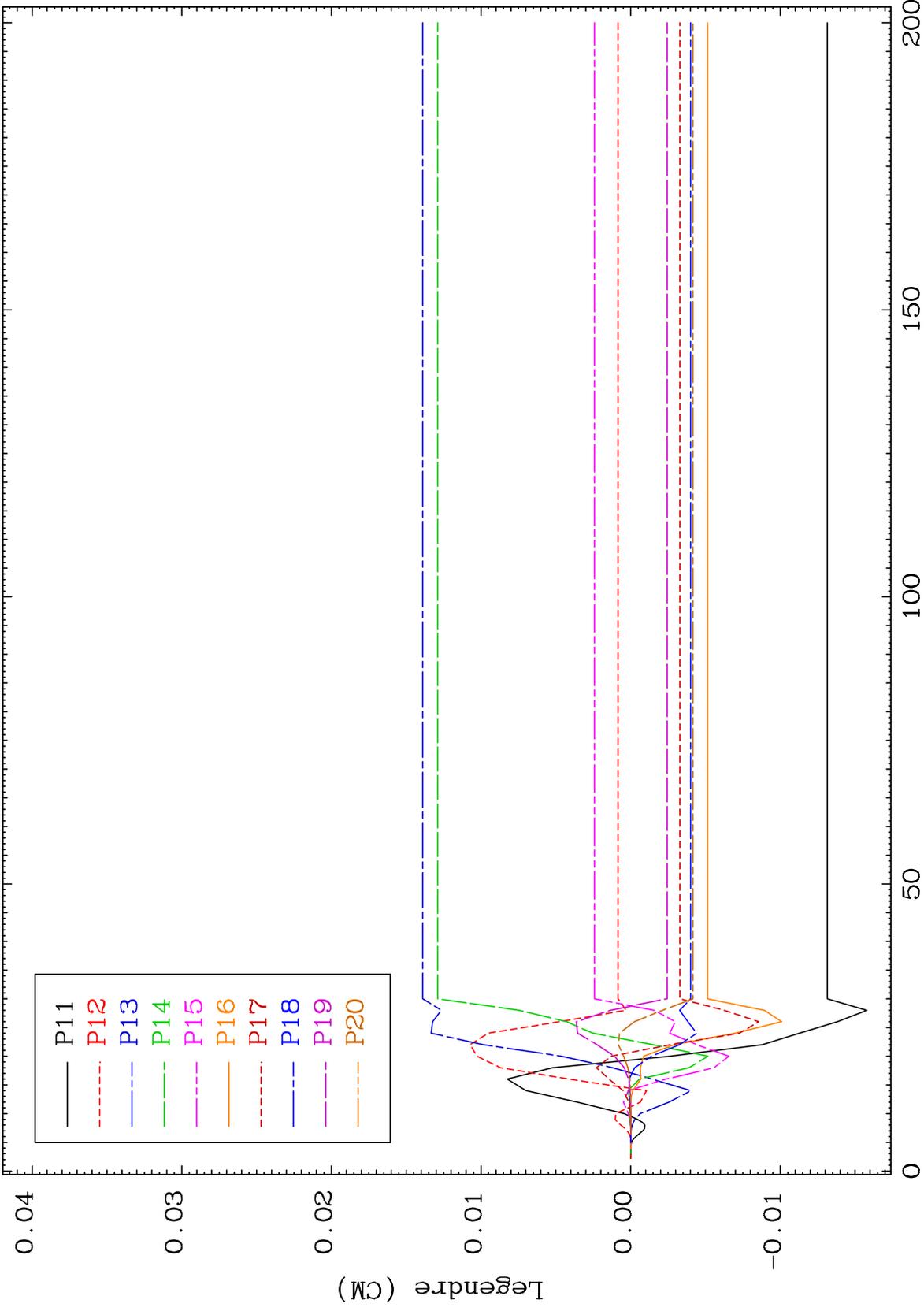
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



69

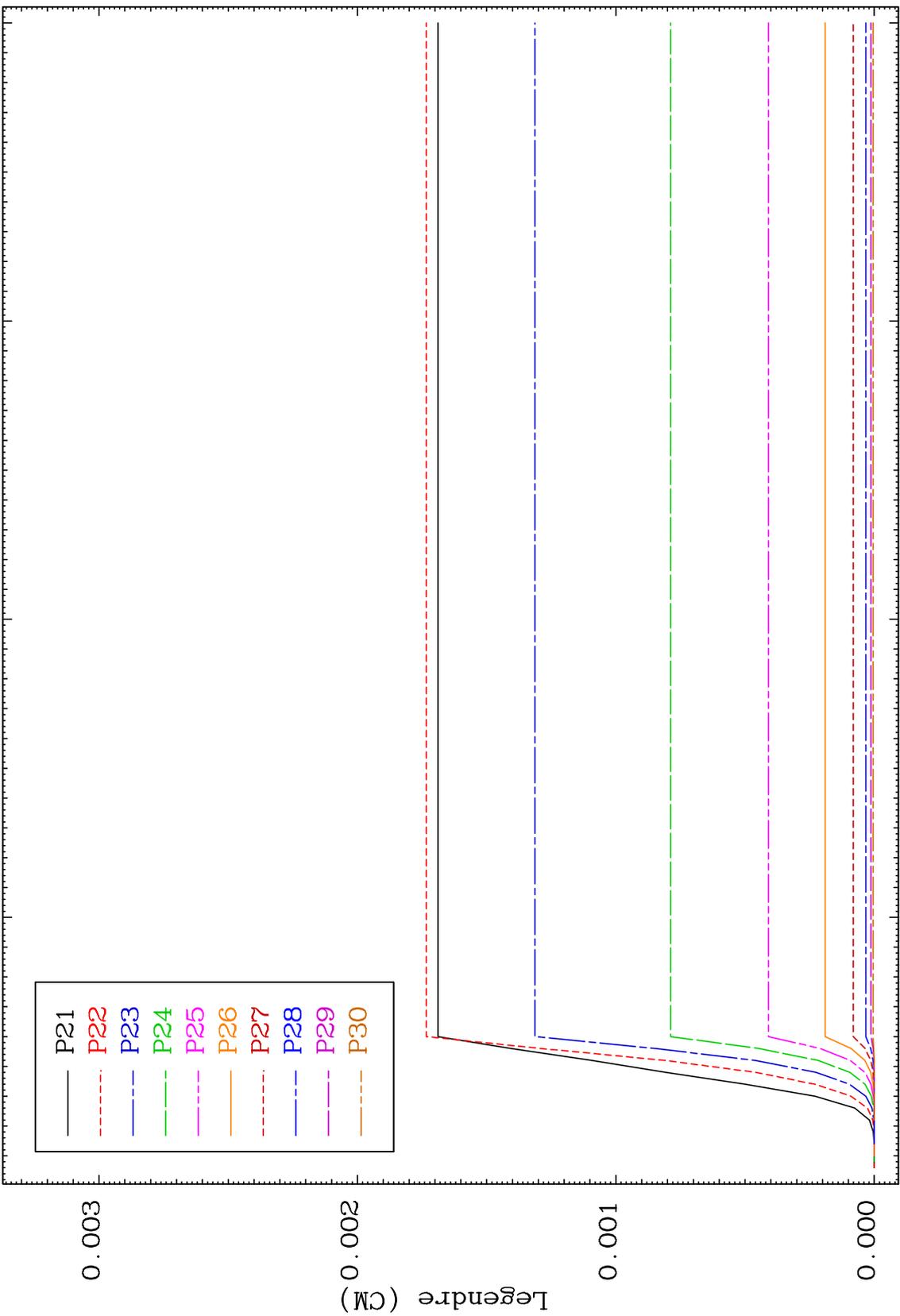
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



70

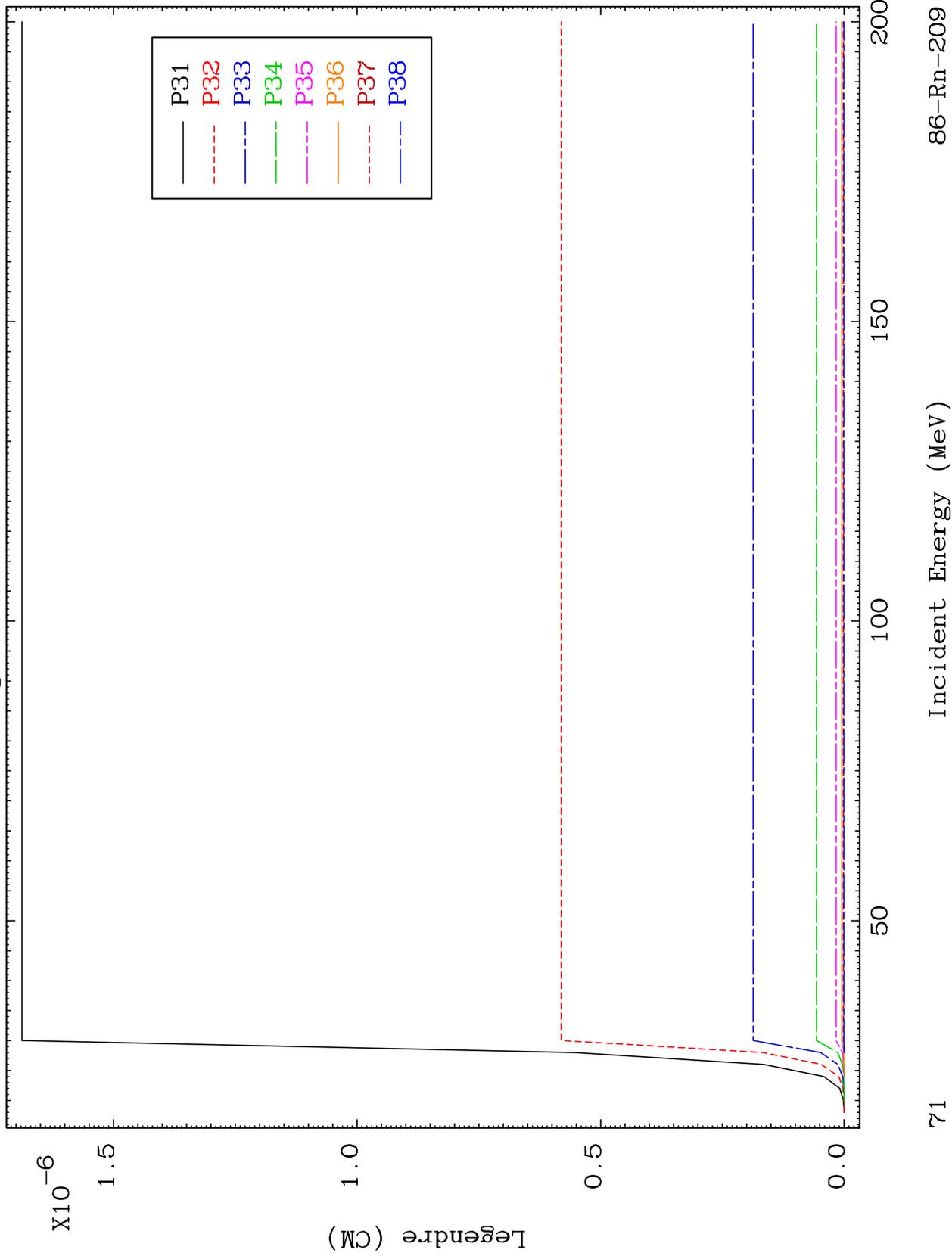
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



71

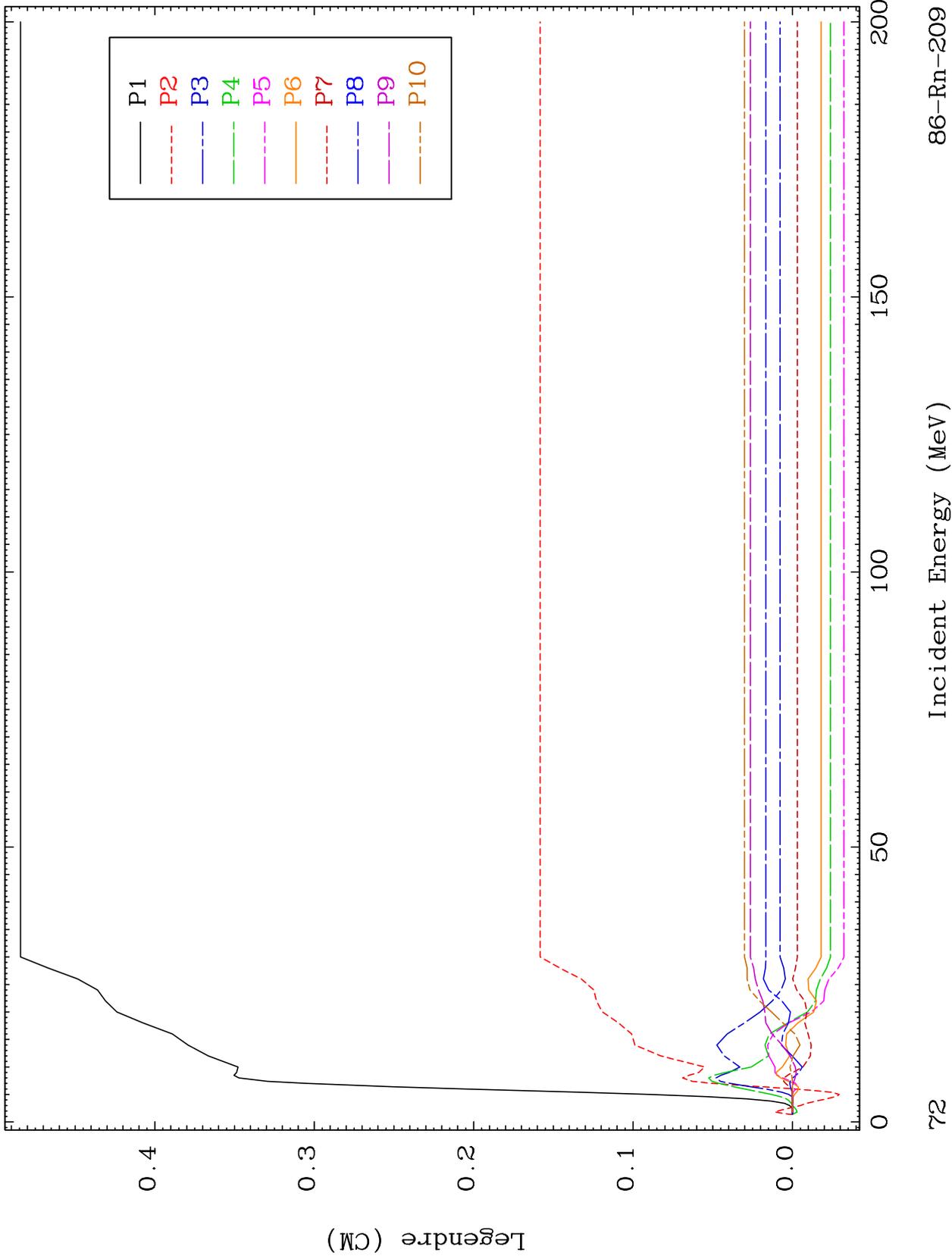
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



86-Rn-209

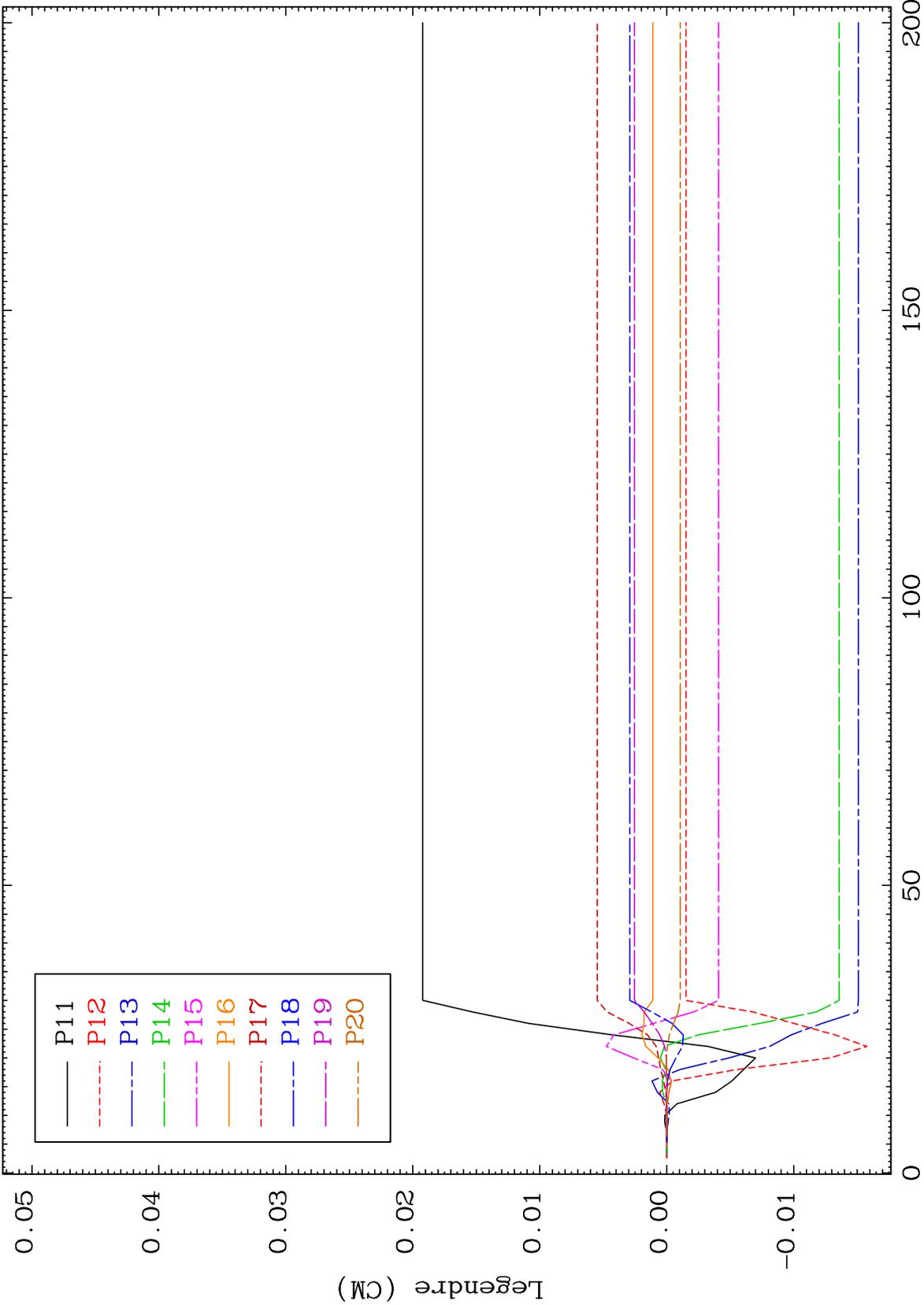
Incident Energy (MeV)

72

MAT 8619

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

86-Rn-209



73

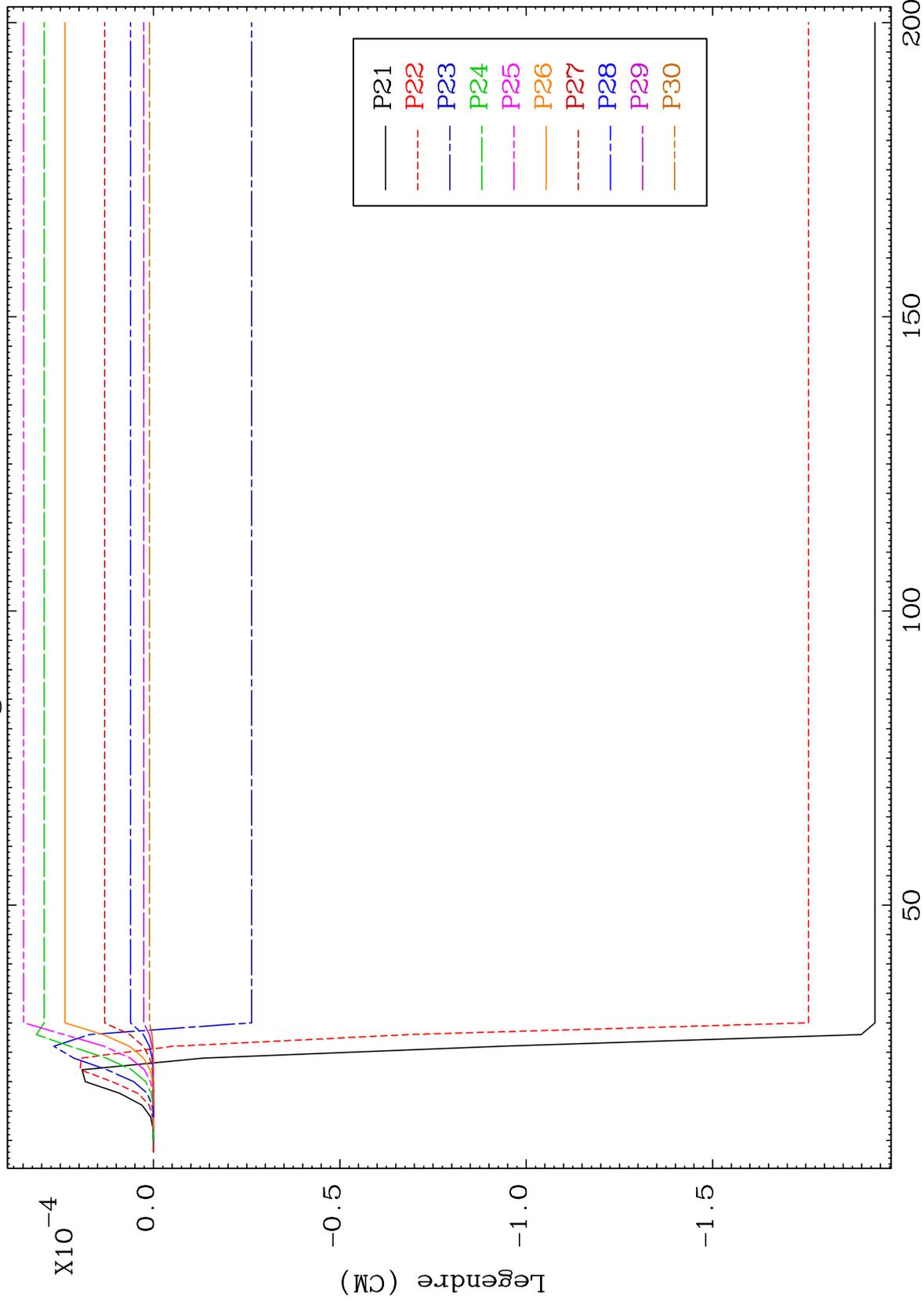
Incident Energy (MeV)

86-Rn-209

MAT 8619

86-Rn-209

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



74

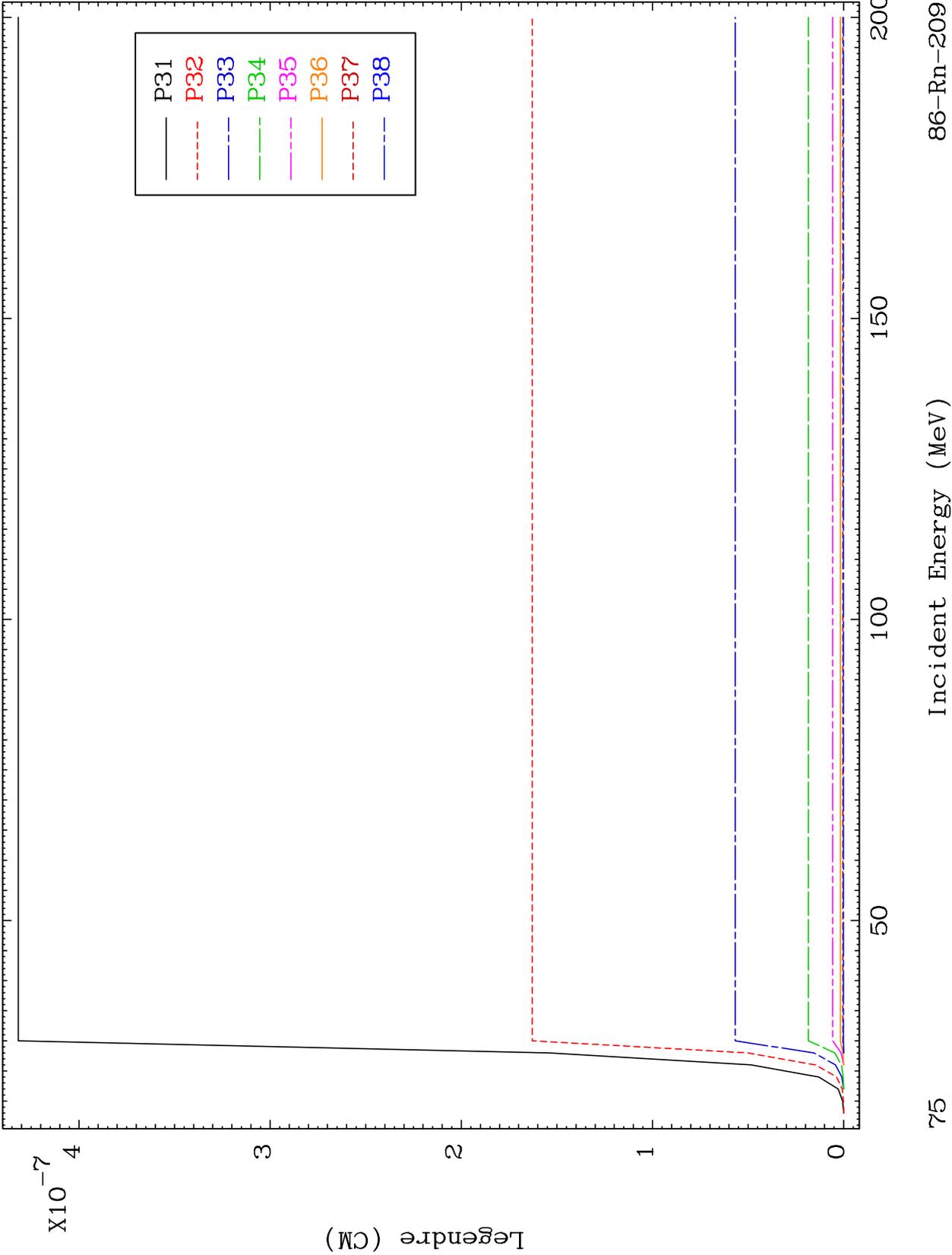
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



75

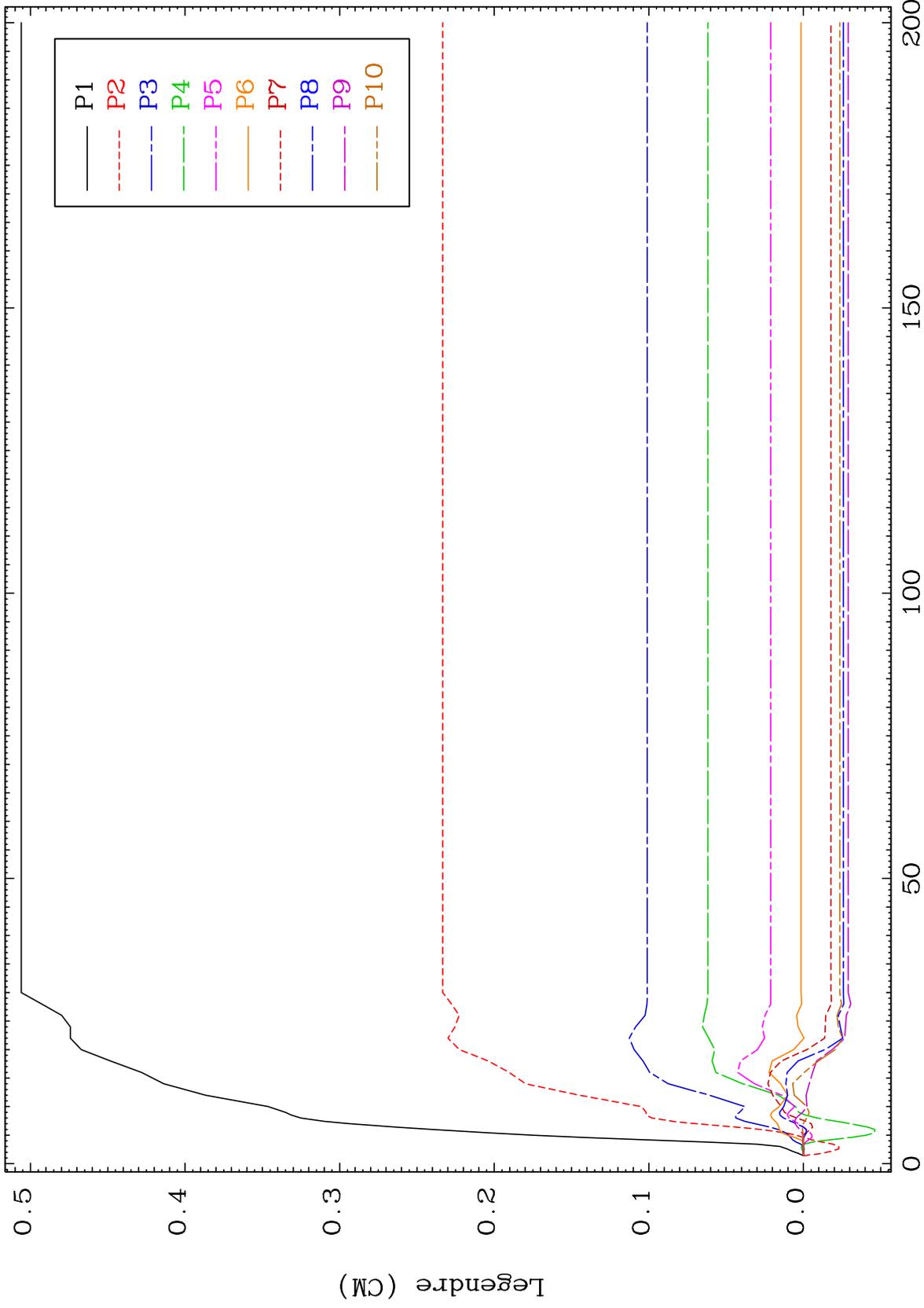
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



76

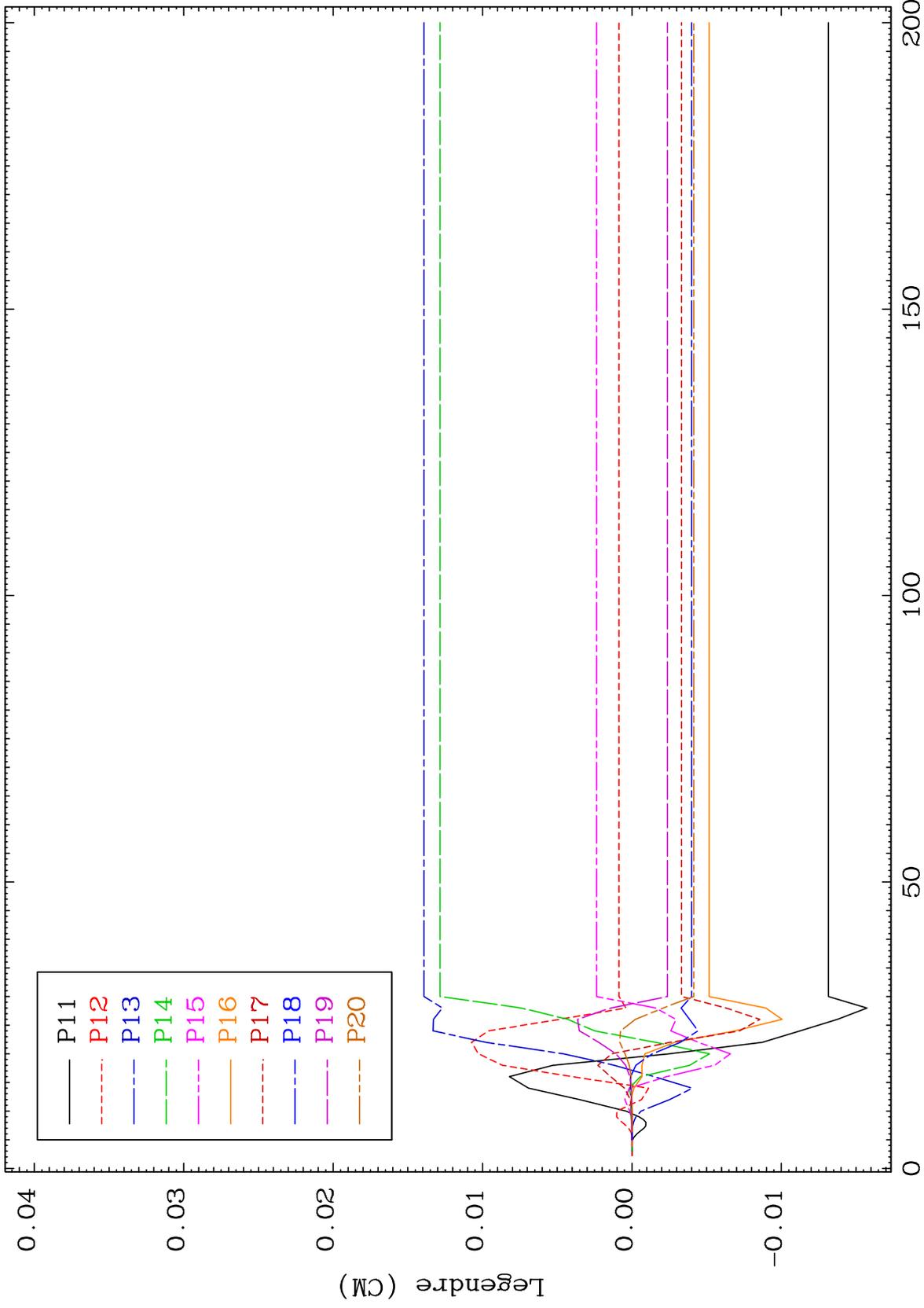
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



77

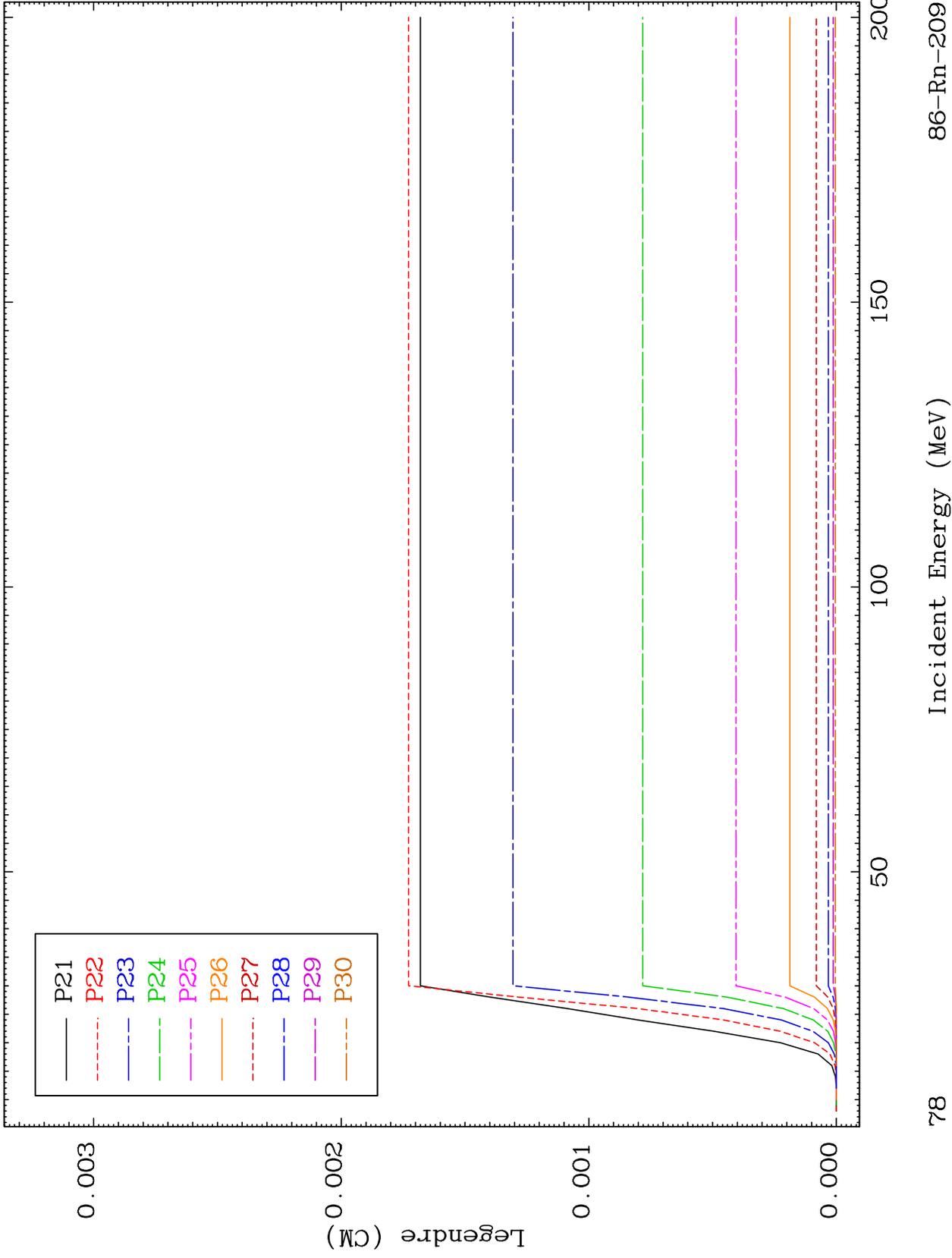
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

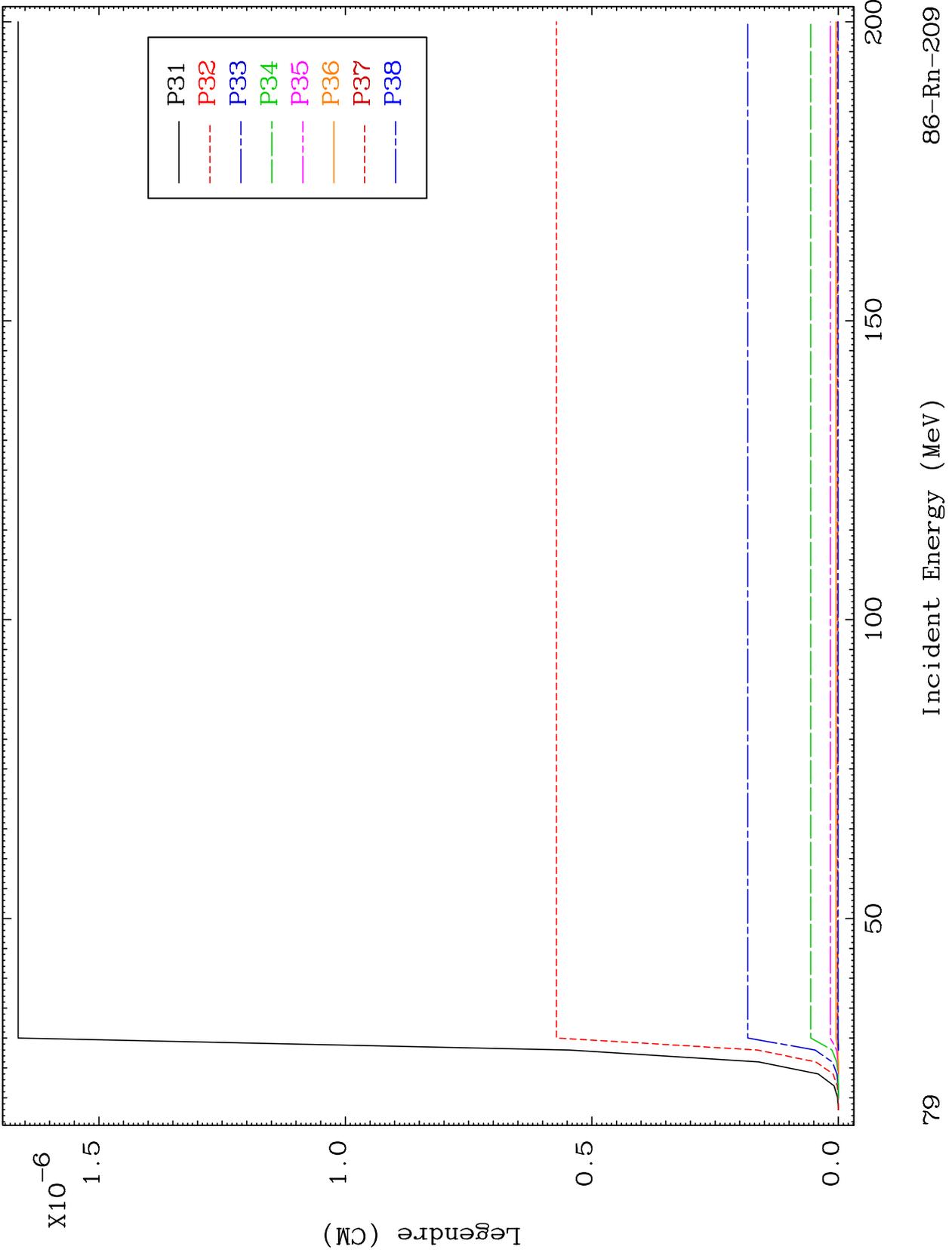
86-Rn-209



MAT 8619

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

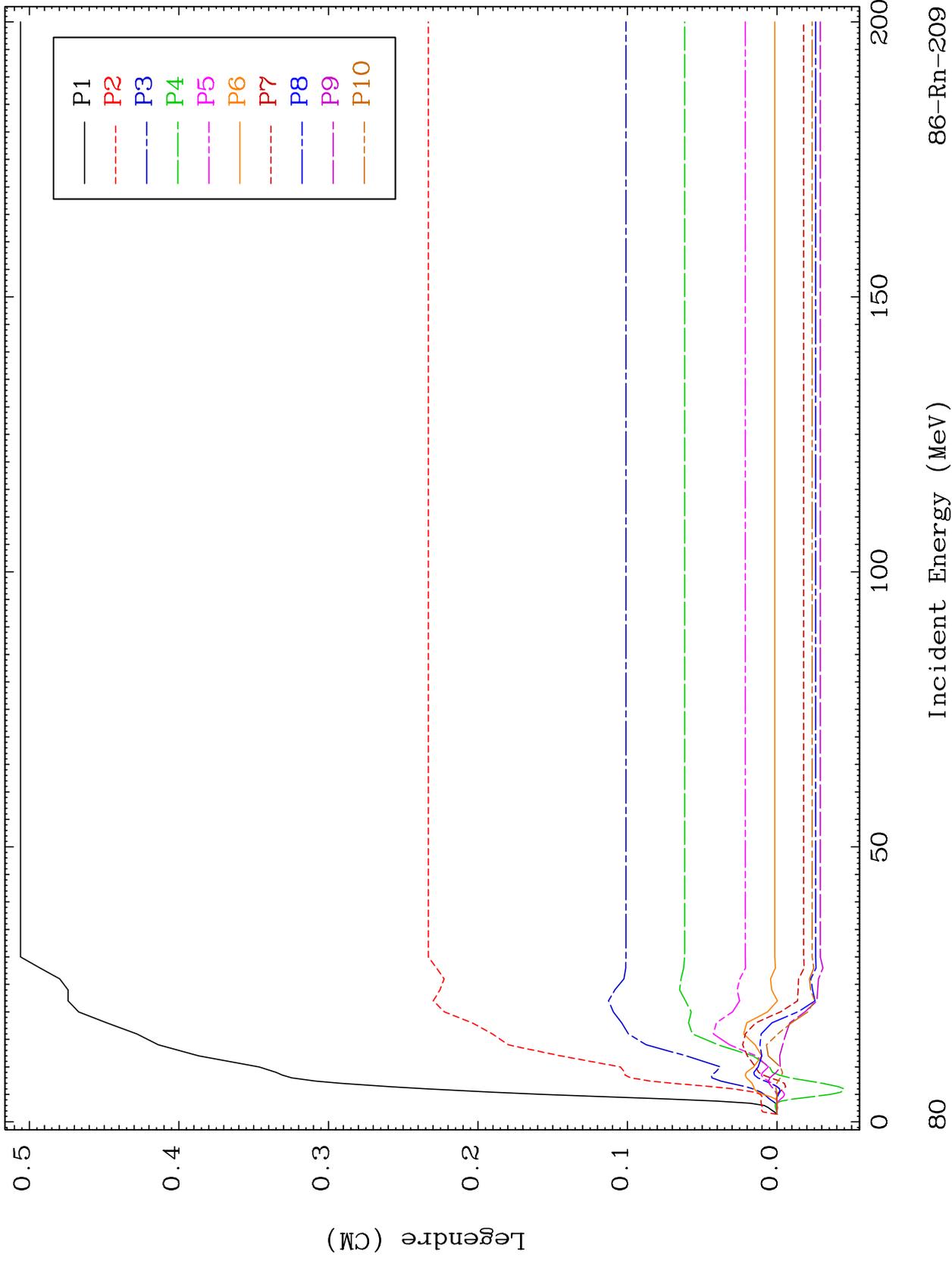
86-Rn-209



MAT 8619

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

86-Rn-209



86-Rn-209

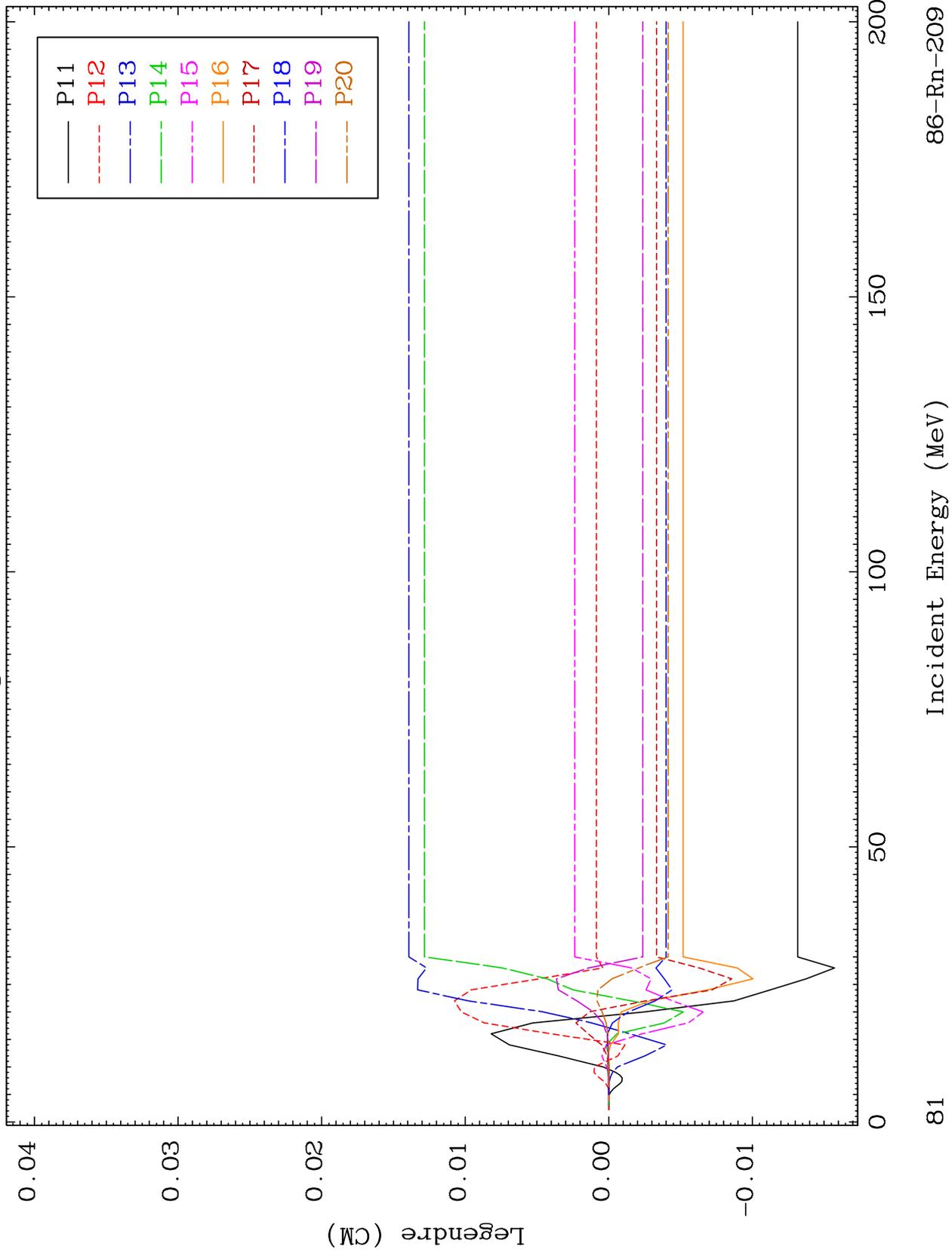
Incident Energy (MeV)

80

MAT 8619

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

86-Rn-209

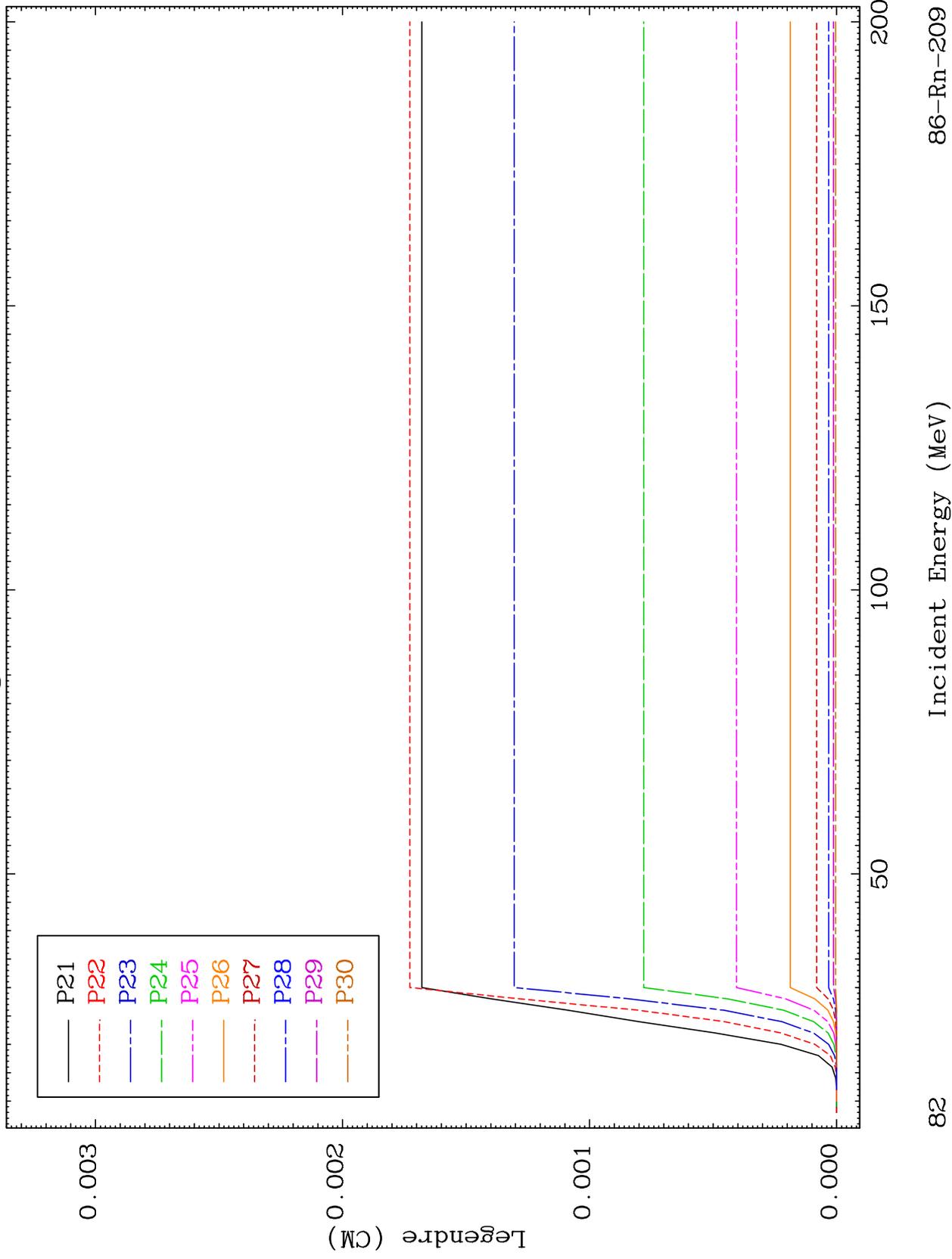


81

MAT 8619

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

86-Rn-209



82

86-Rn-209

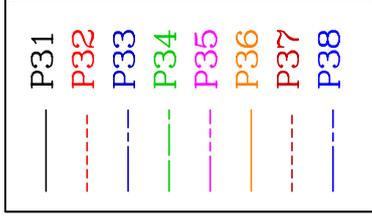
MAT 8619

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

86-Rn-209

$\times 10^{-6}$
1.5

Legendre (CM)



1.0

0.5

0.0

50

100

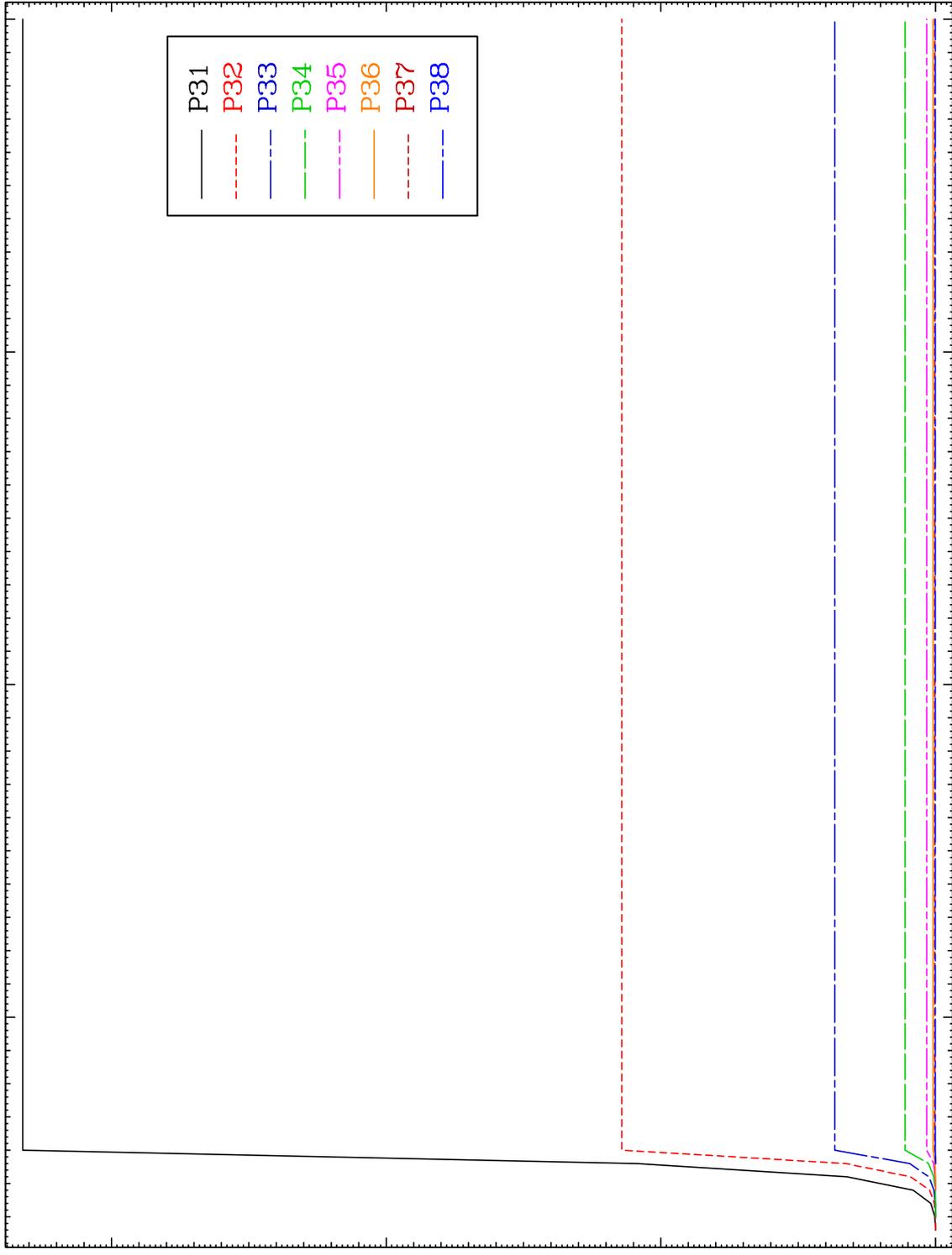
150

200

83

Incident Energy (MeV)

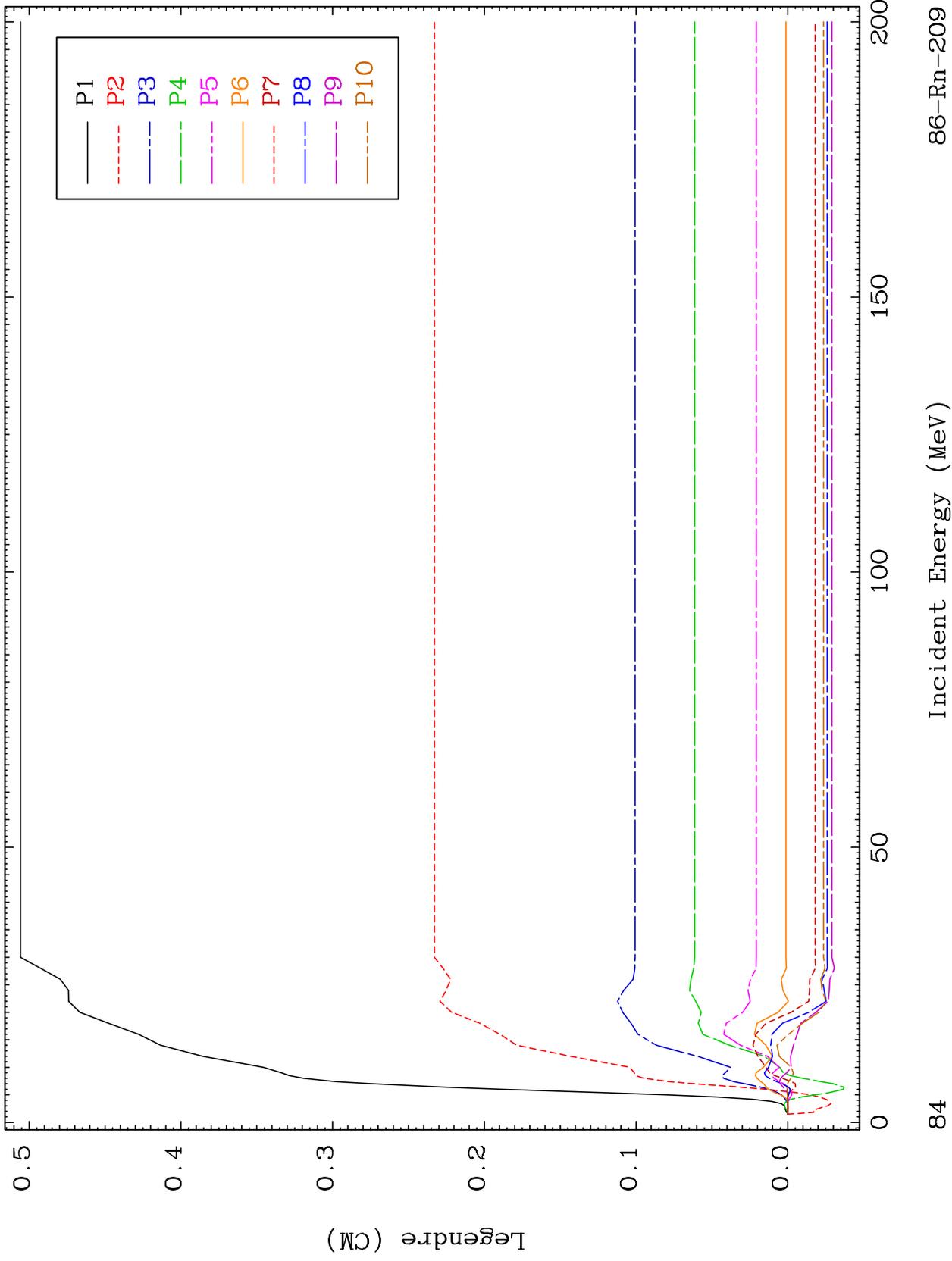
86-Rn-209



MAT 8619

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

86-Rn-209



84

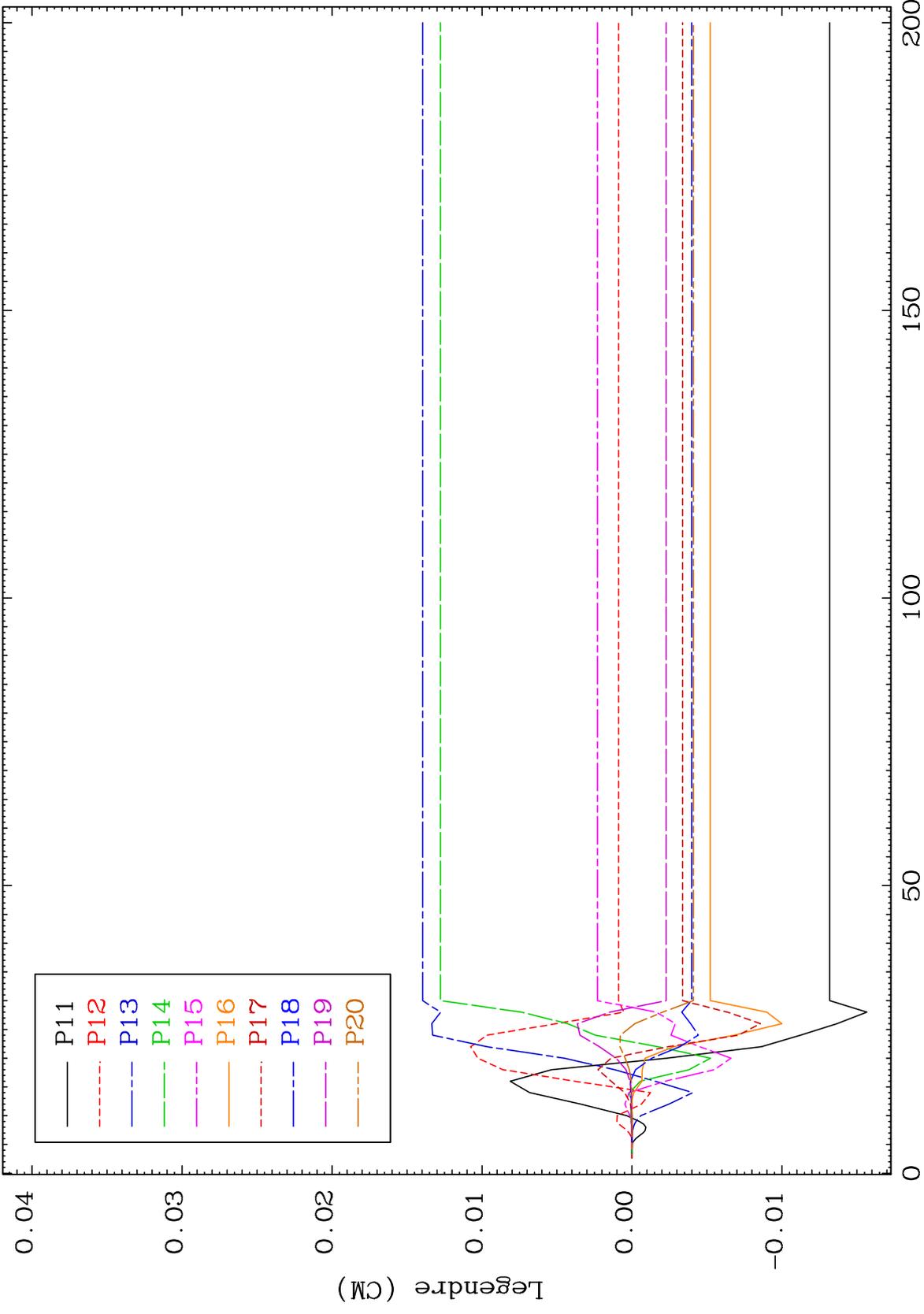
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



85

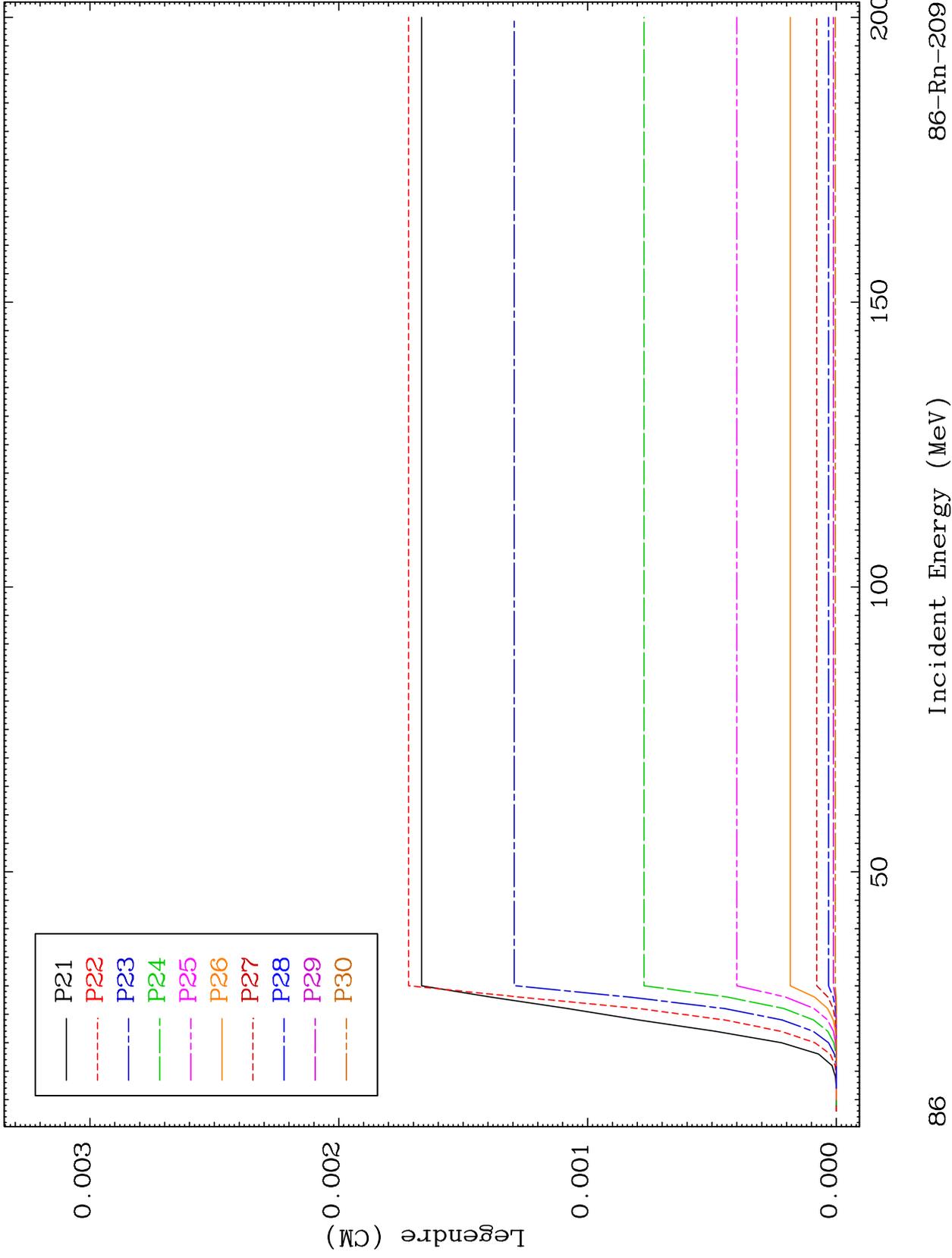
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



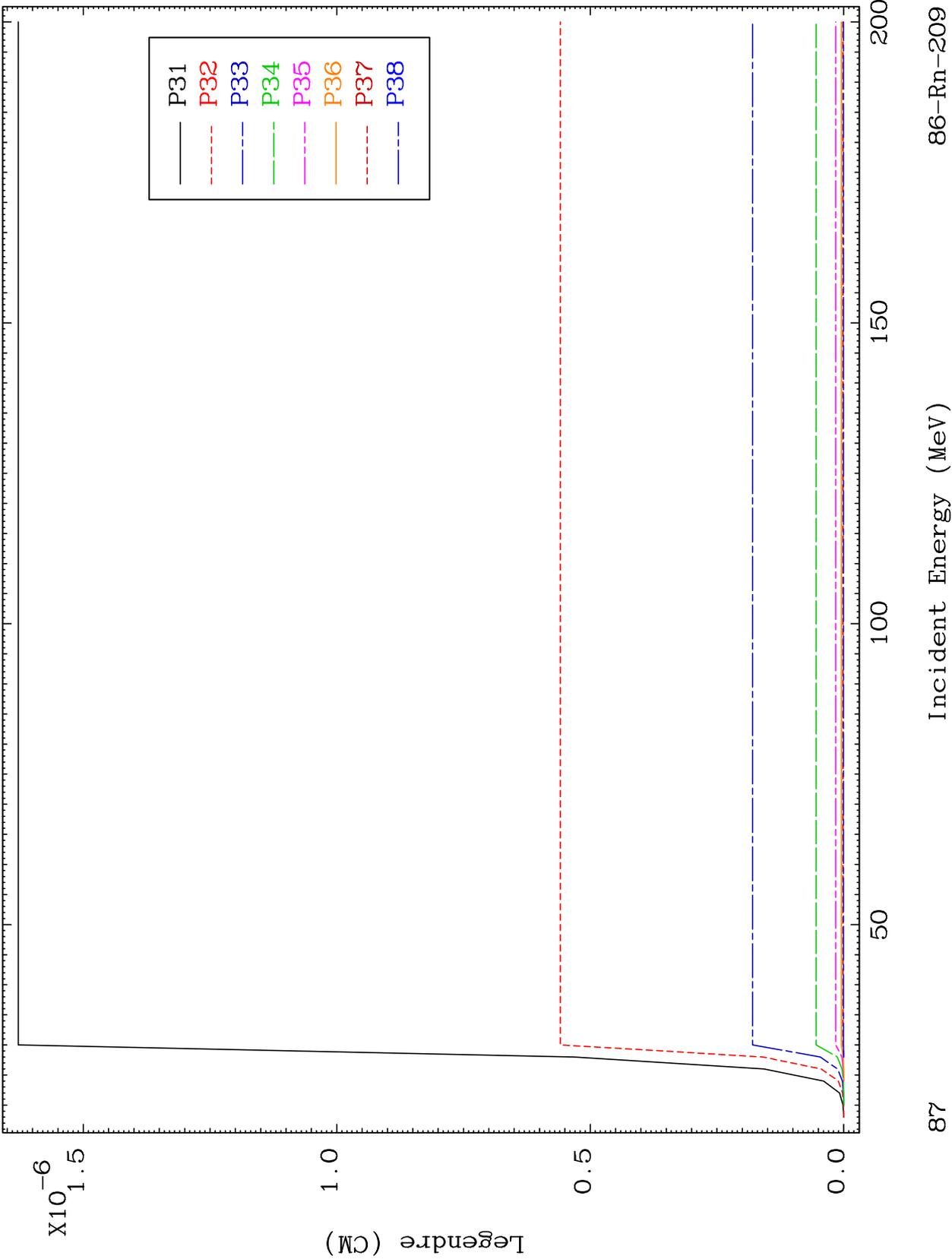
86

86-Rn-209

MAT 8619

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

86-Rn-209



87

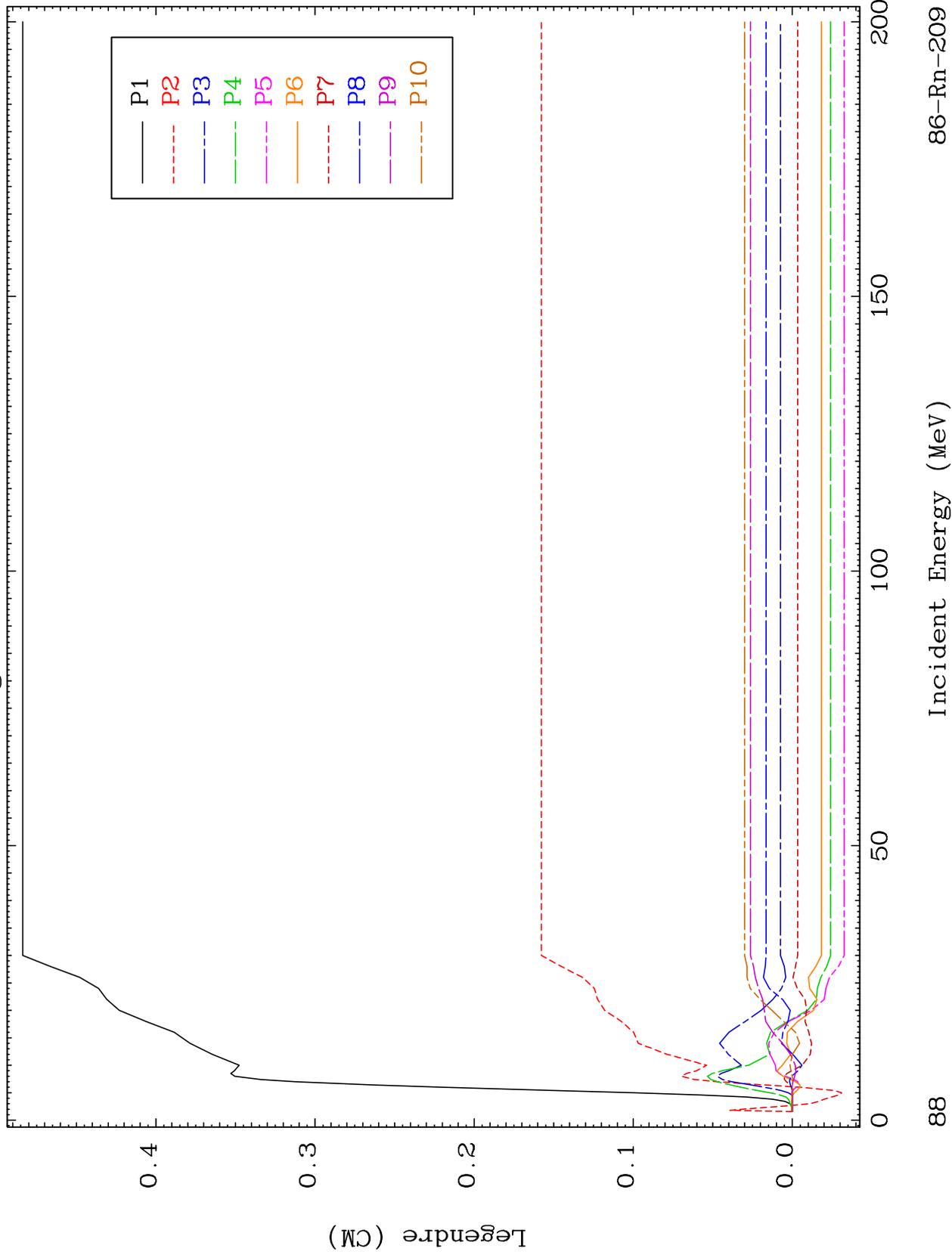
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



86-Rn-209

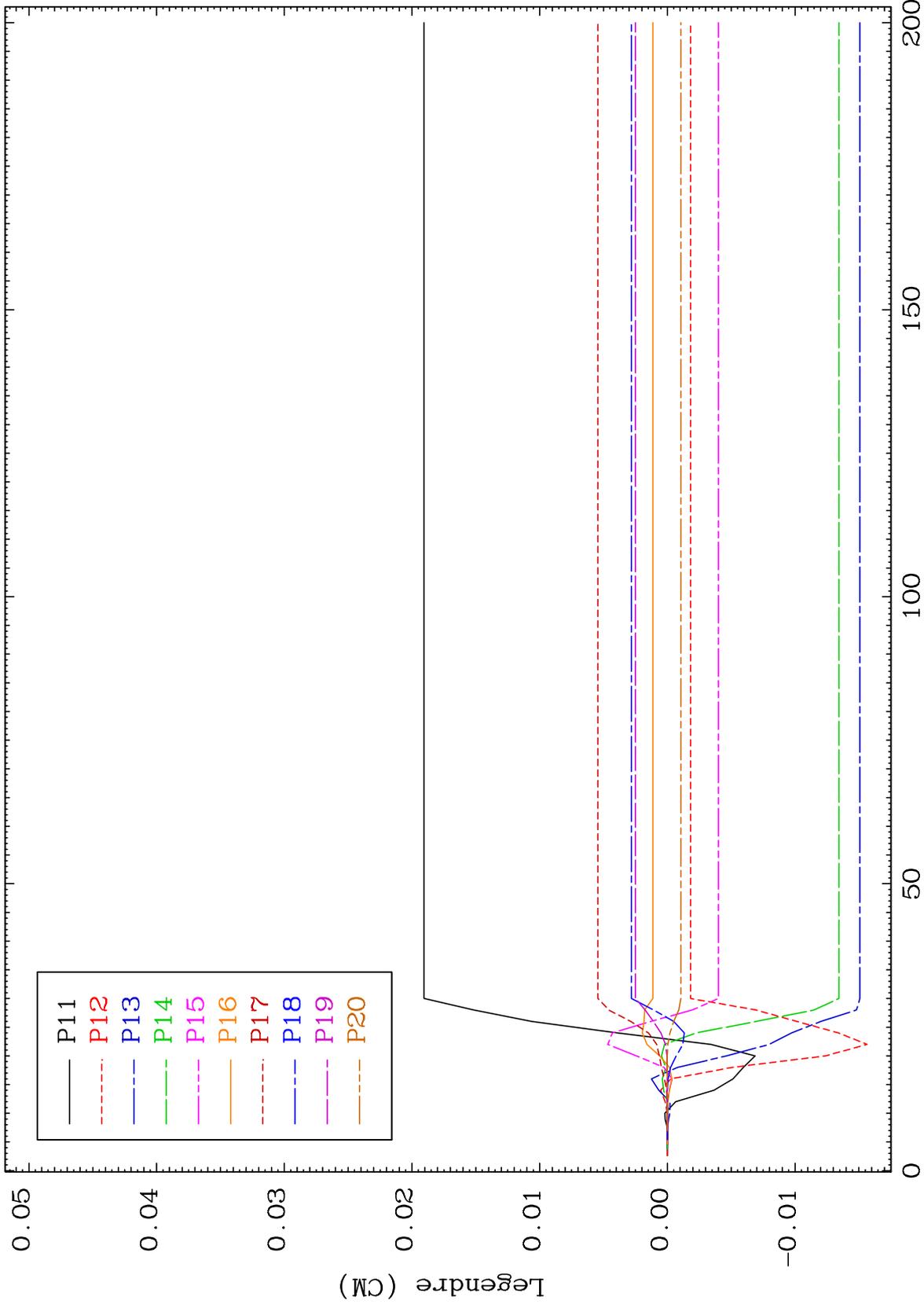
Incident Energy (MeV)

88

MAT 8619

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

86-Rn-209



89

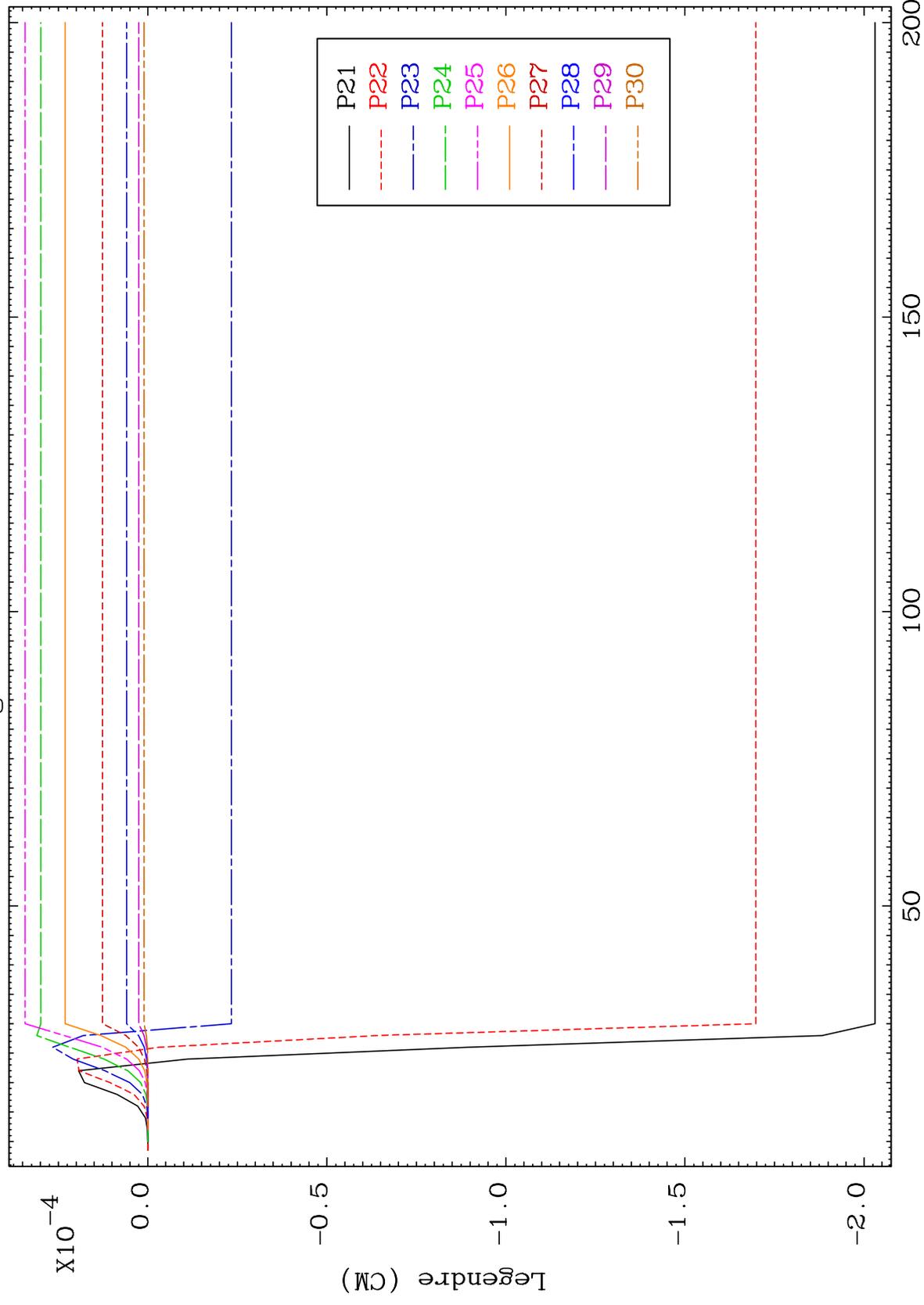
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



90

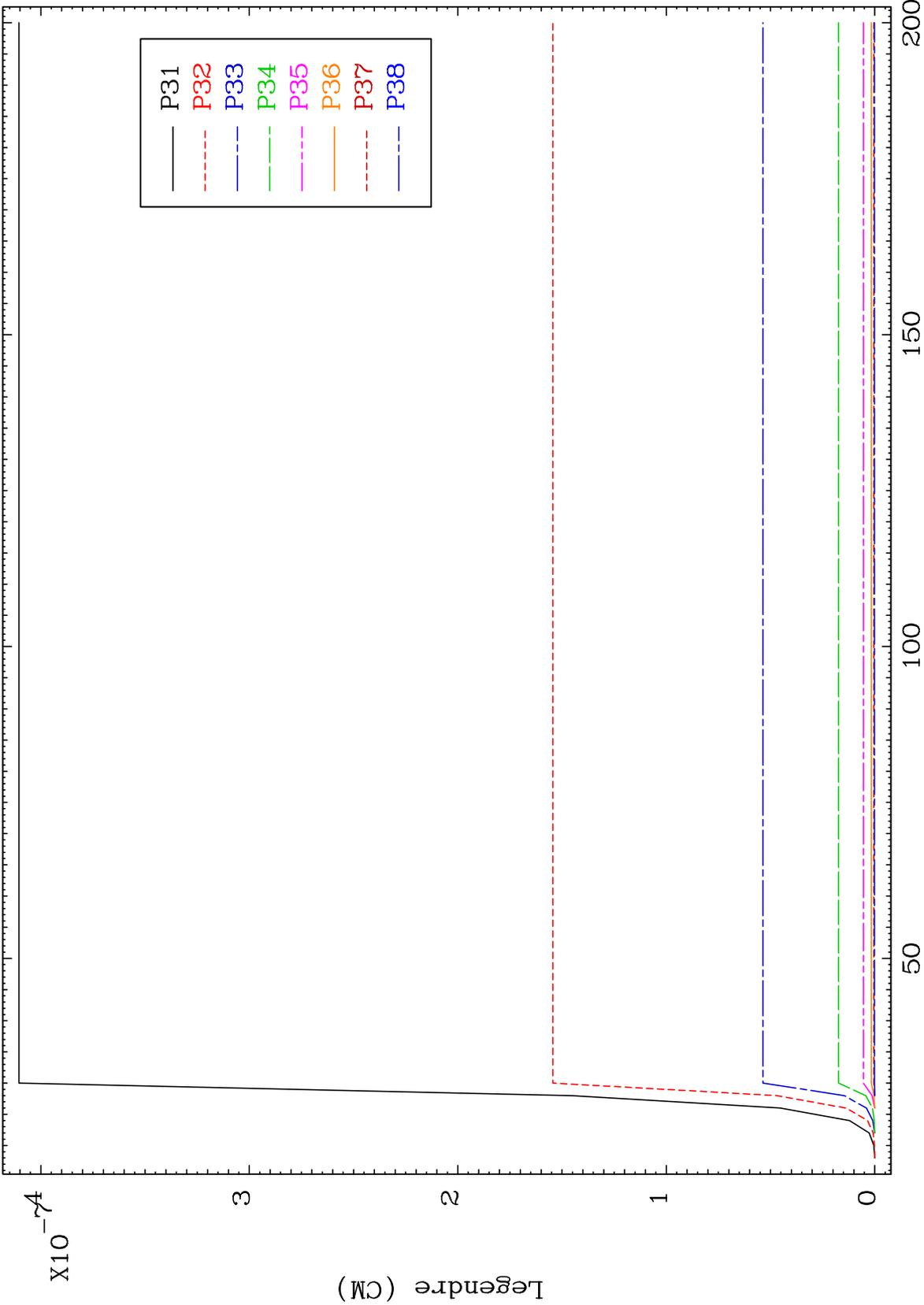
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



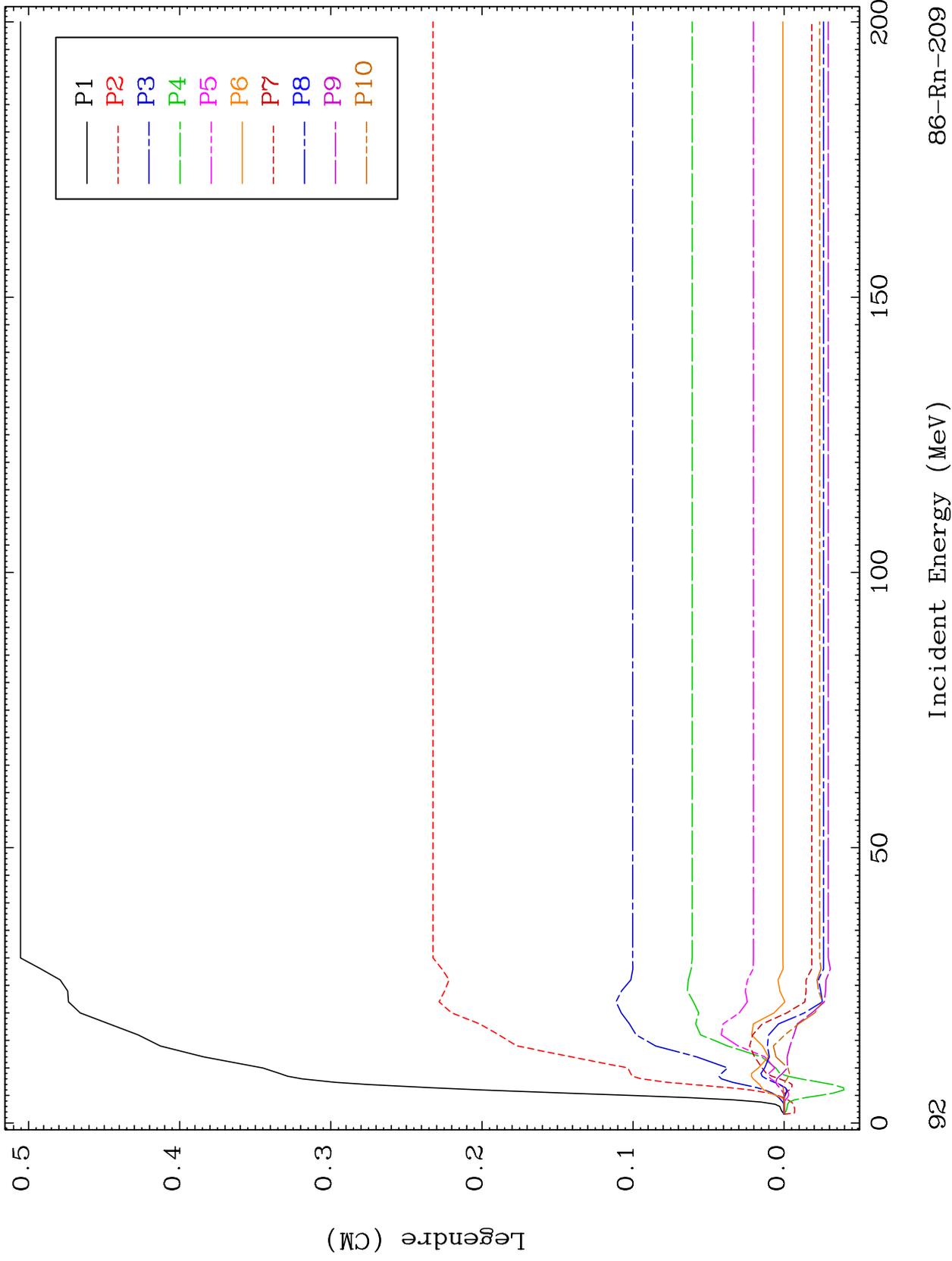
91

86-Rn-209

MAT 8619

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

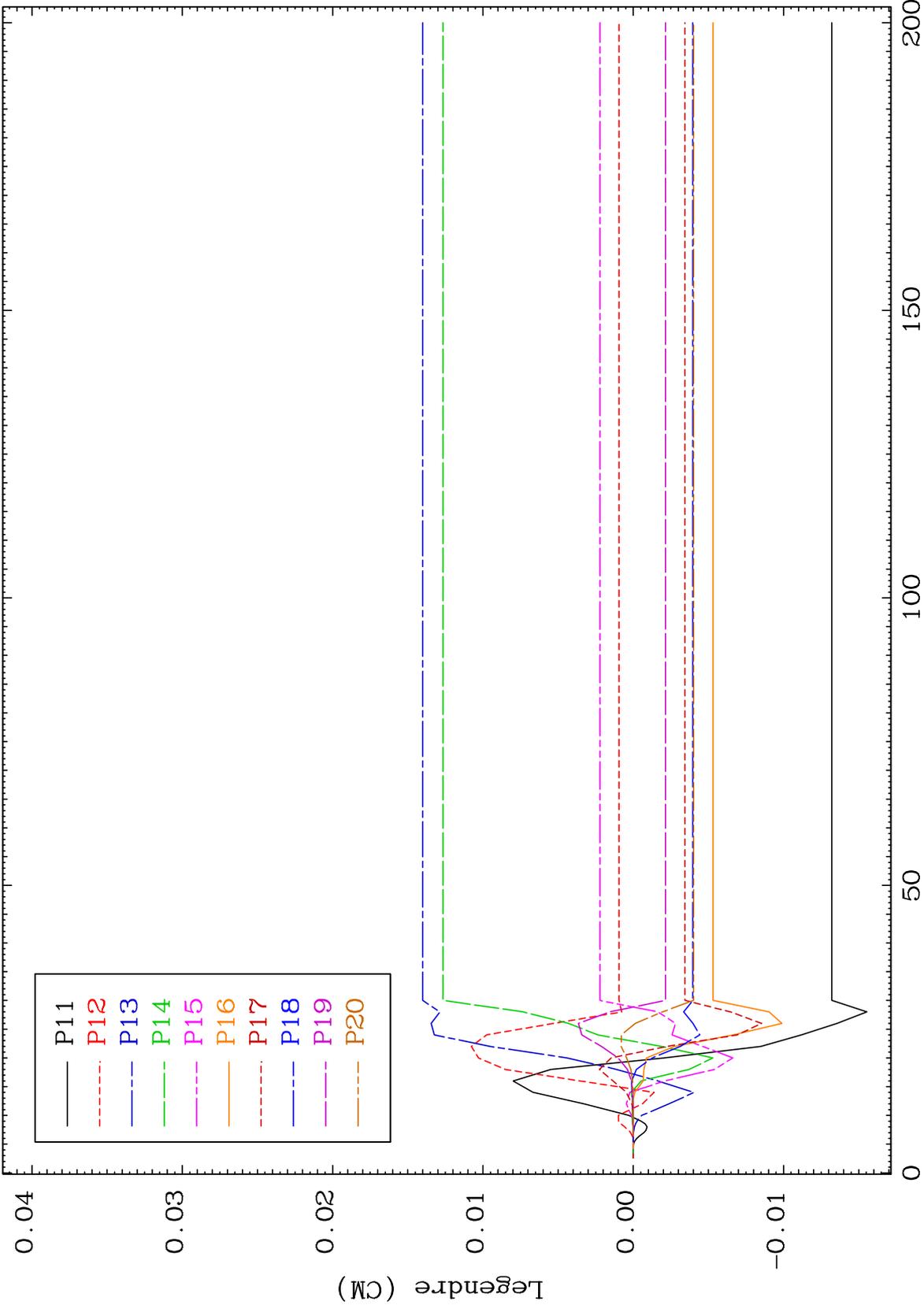
86-Rn-209



MAT 8619

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

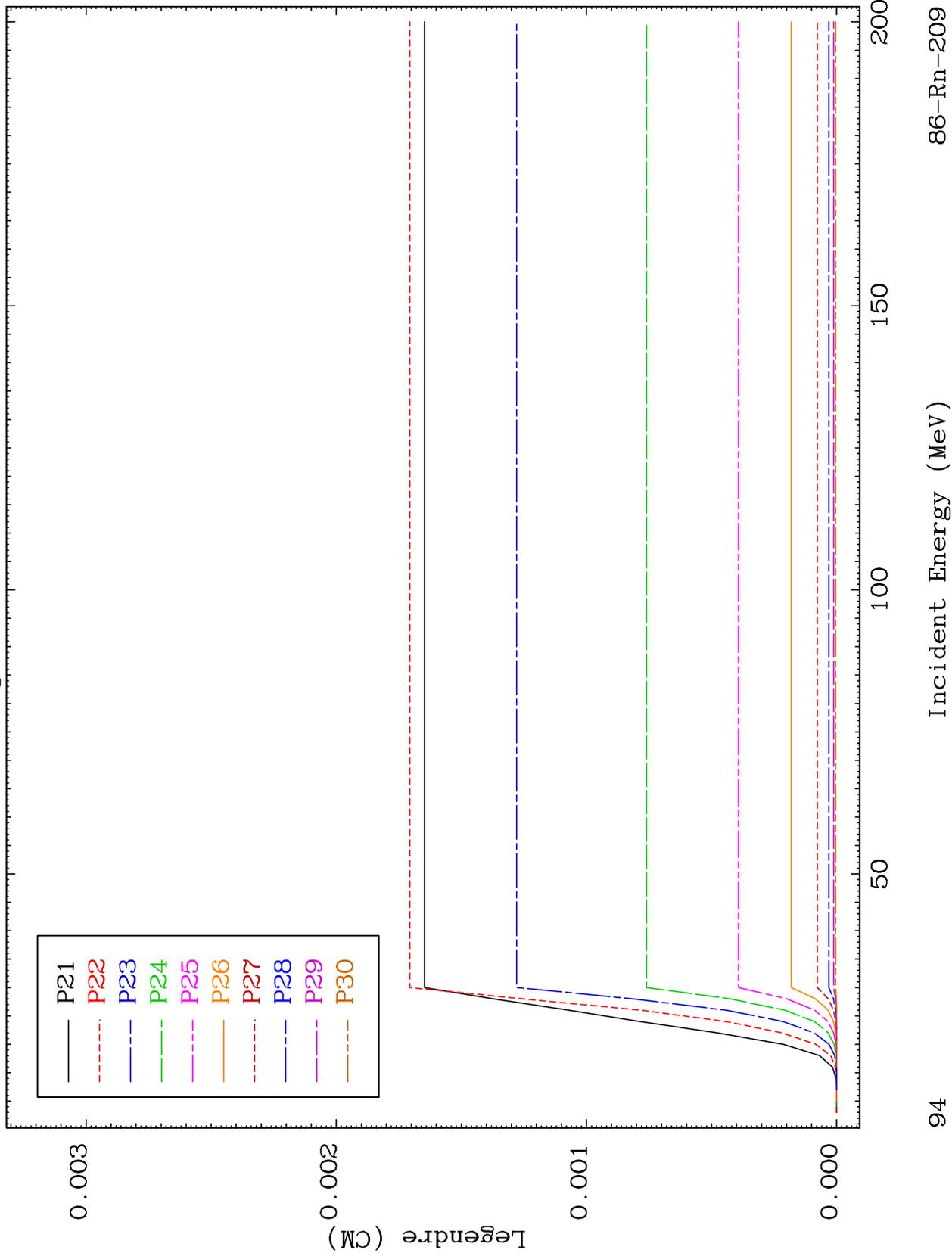
86-Rn-209



MAT 8619

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

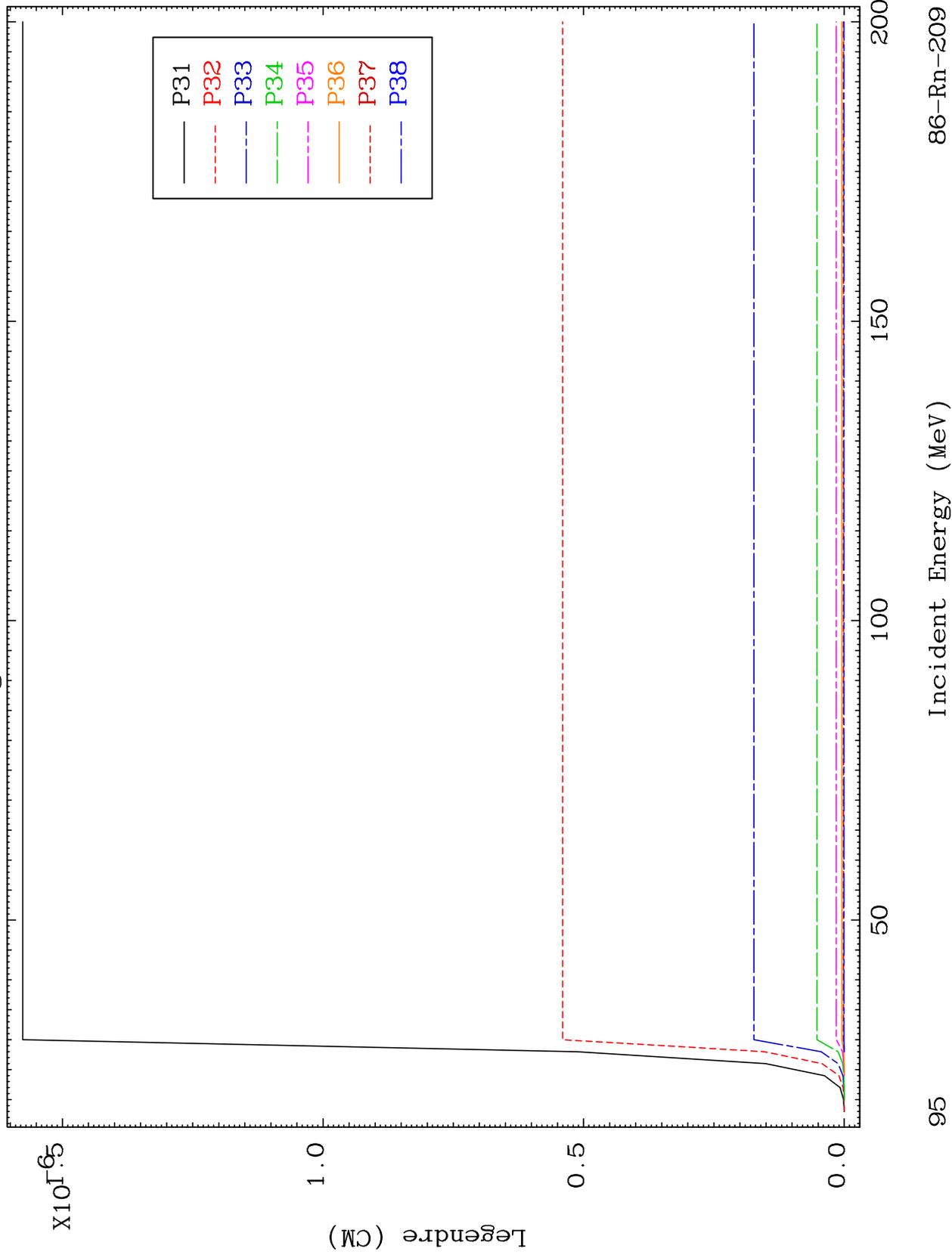
86-Rn-209



MAT 8619

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

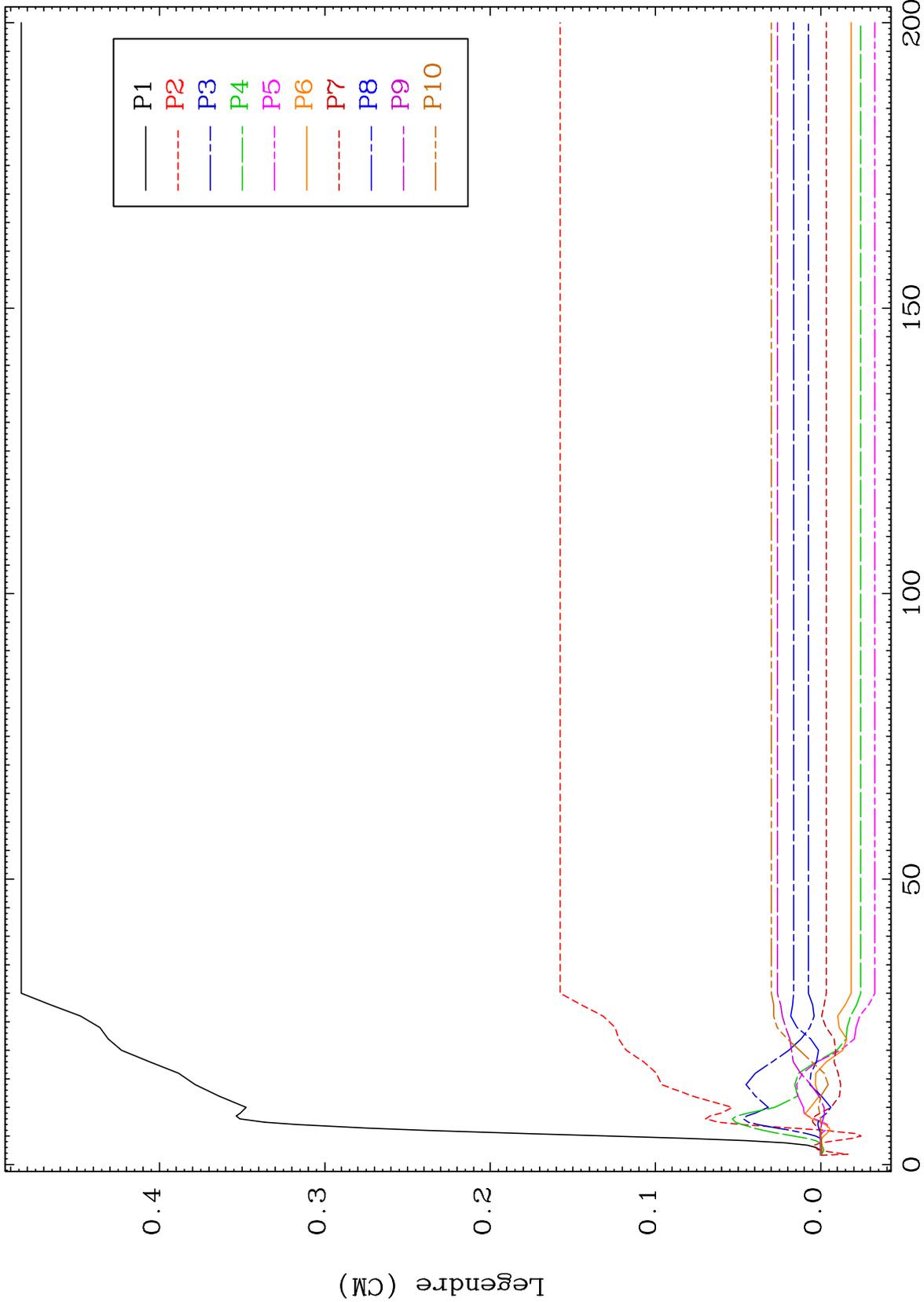
86-Rn-209



MAT 8619

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

86-Rn-209



96

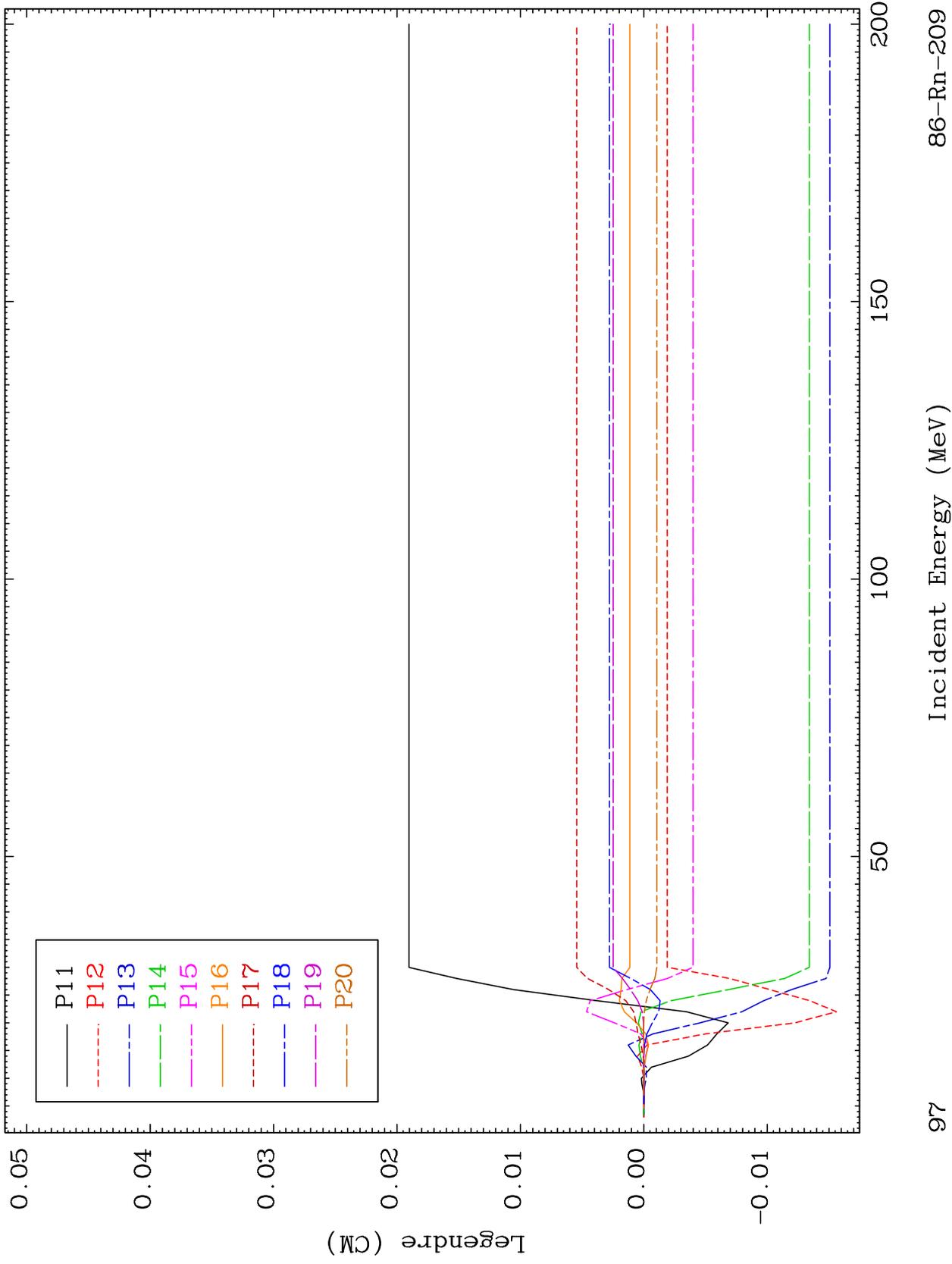
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



97

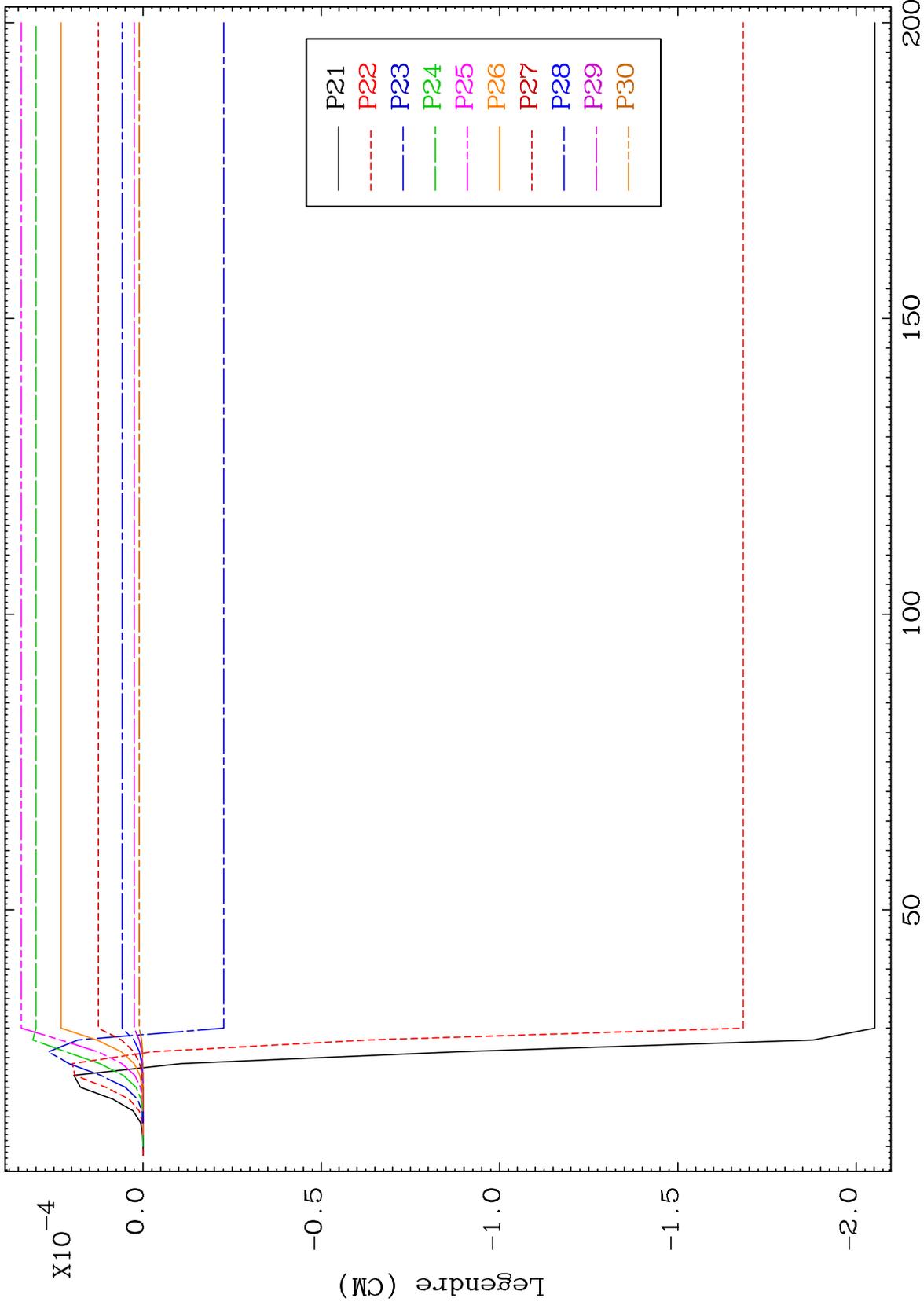
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



98

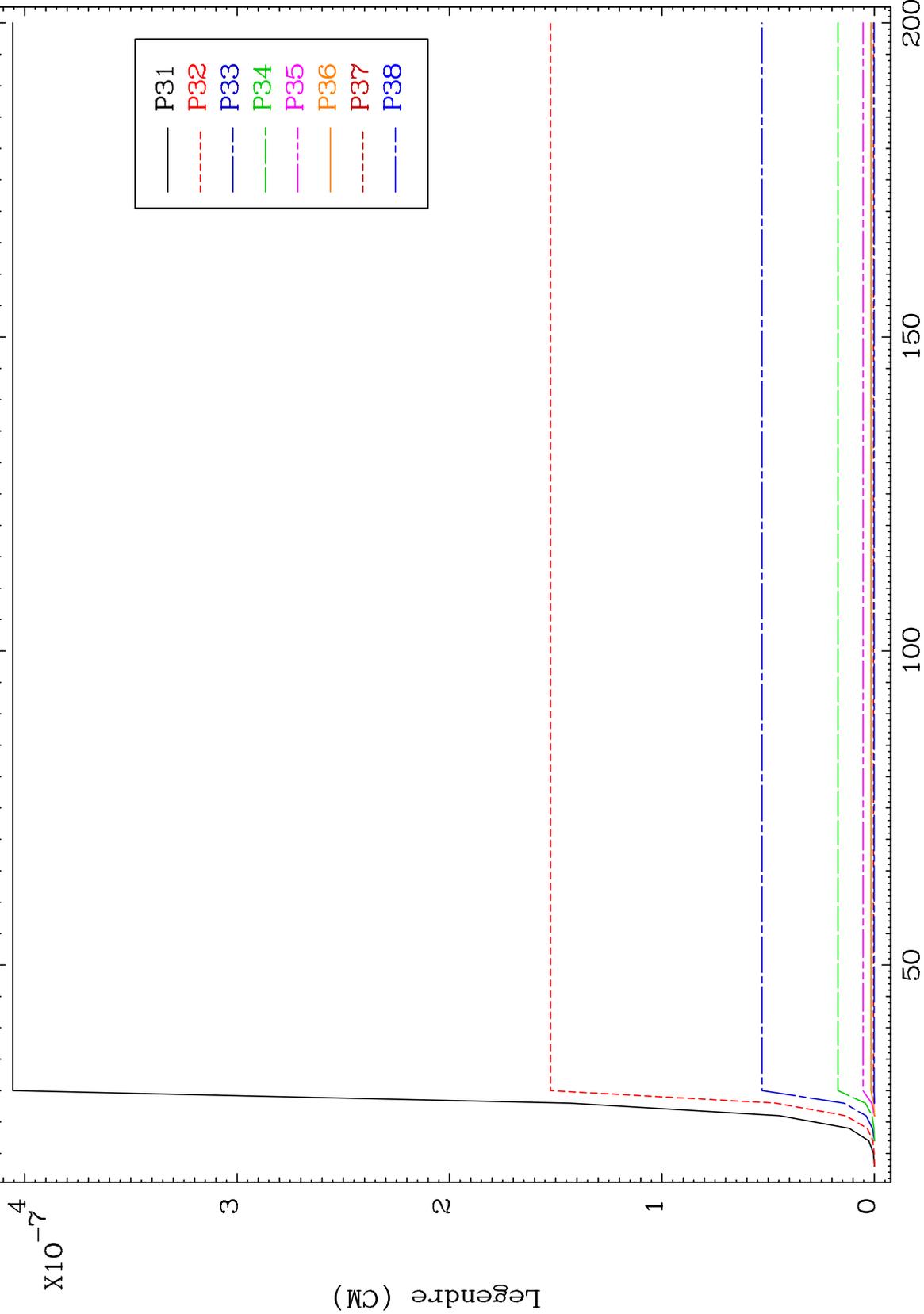
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



99

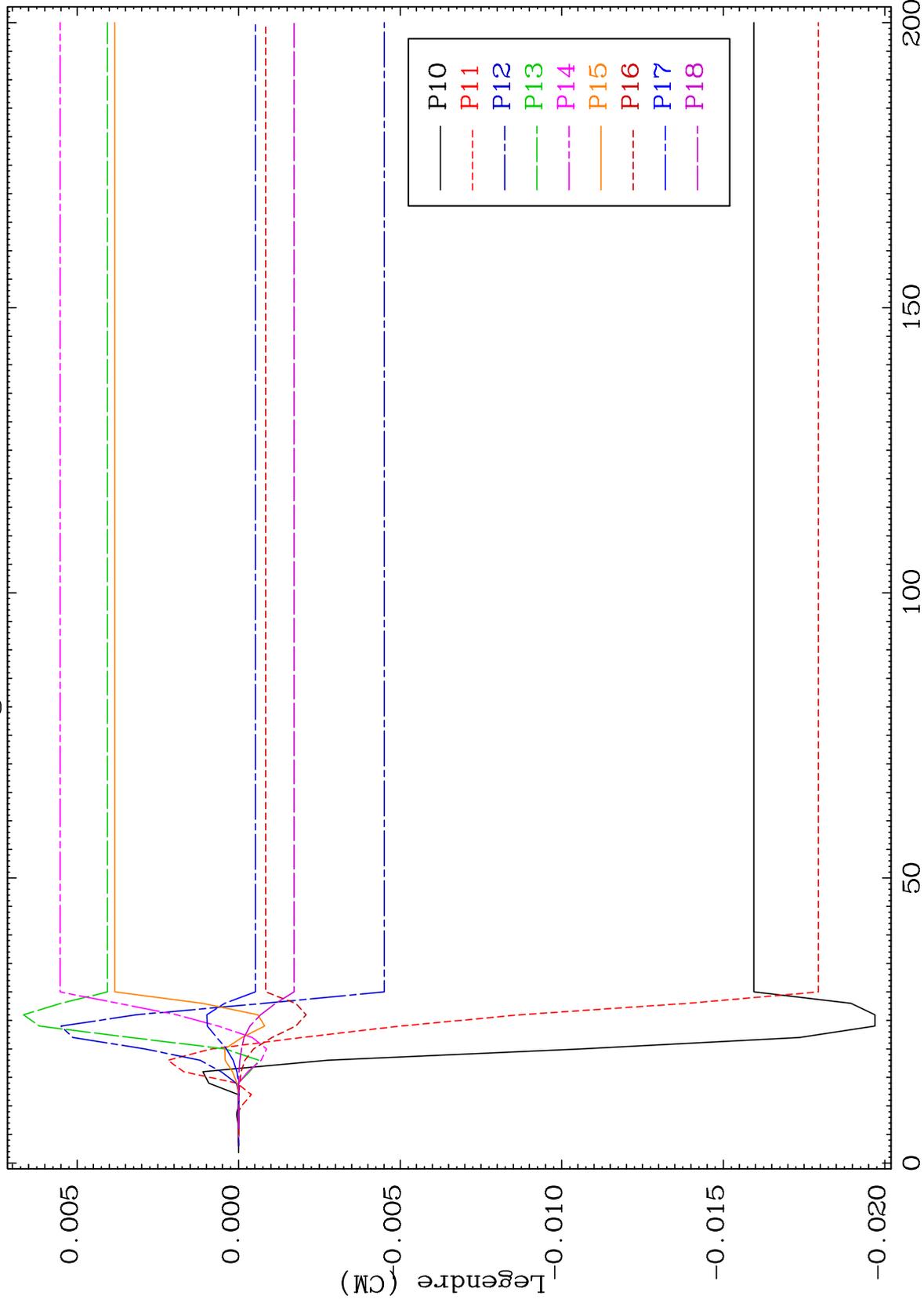
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



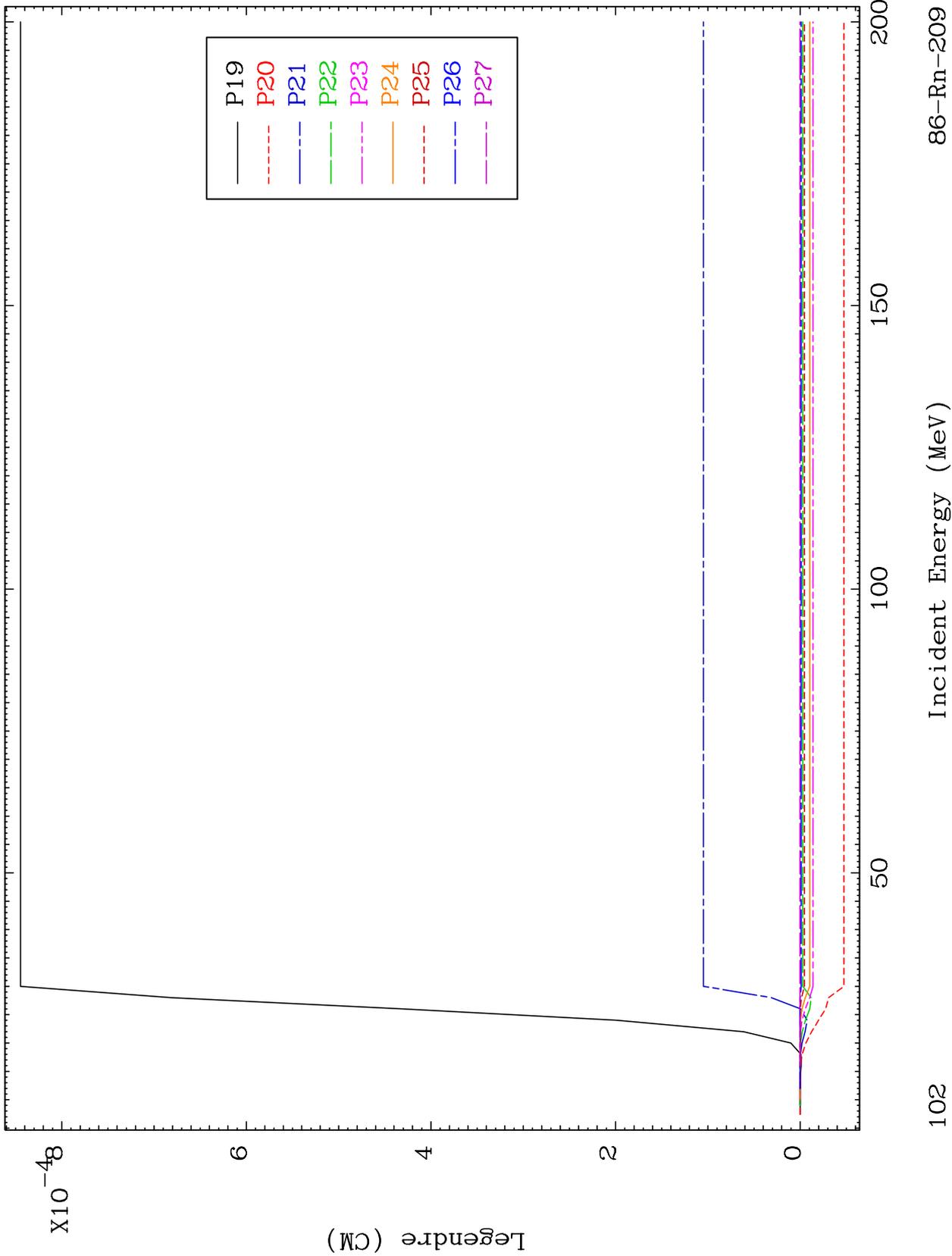
101

86-Rn-209

MAT 8619

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

86-Rn-209

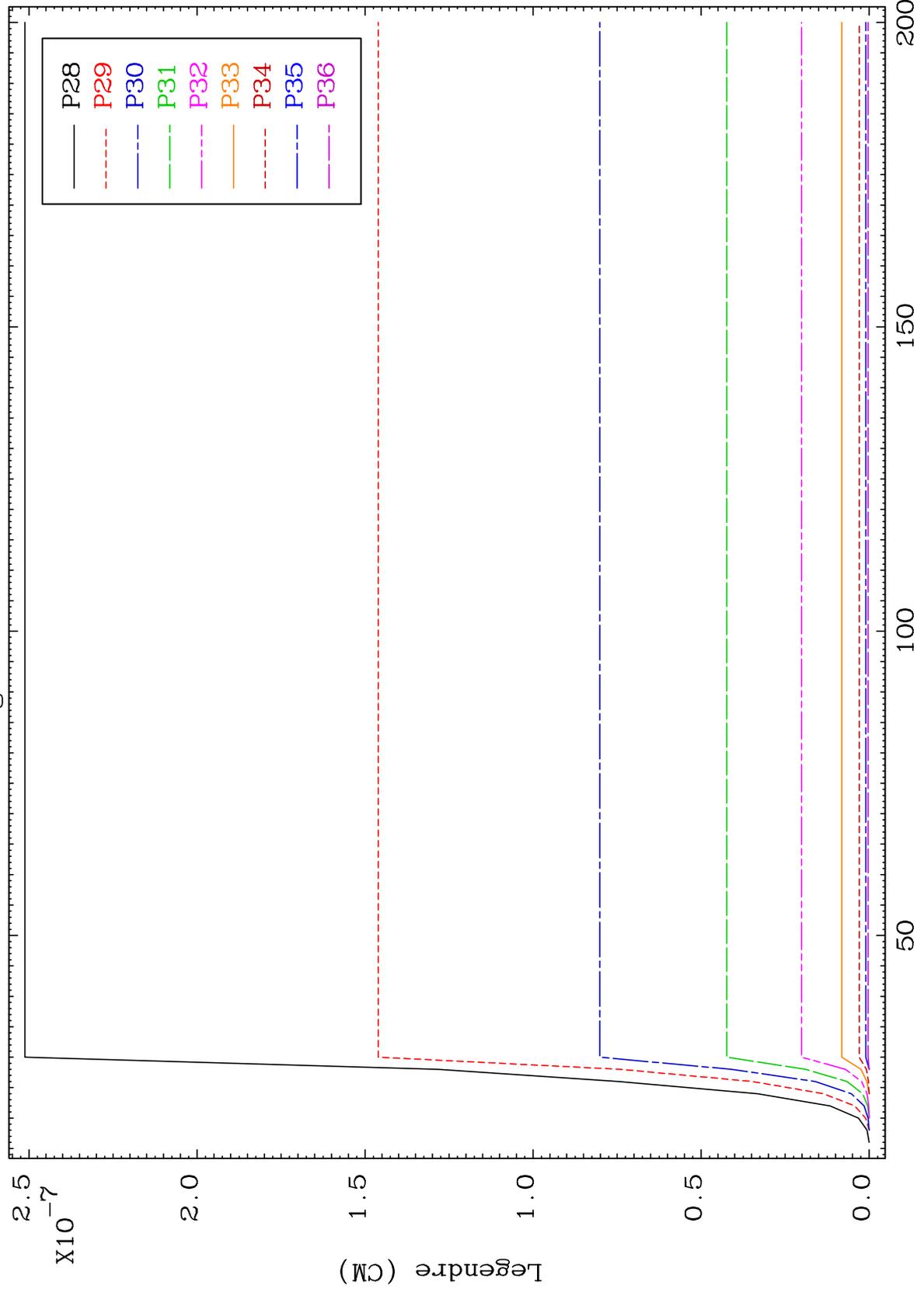


102

MAT 8619

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

86-Rn-209



86-Rn-209

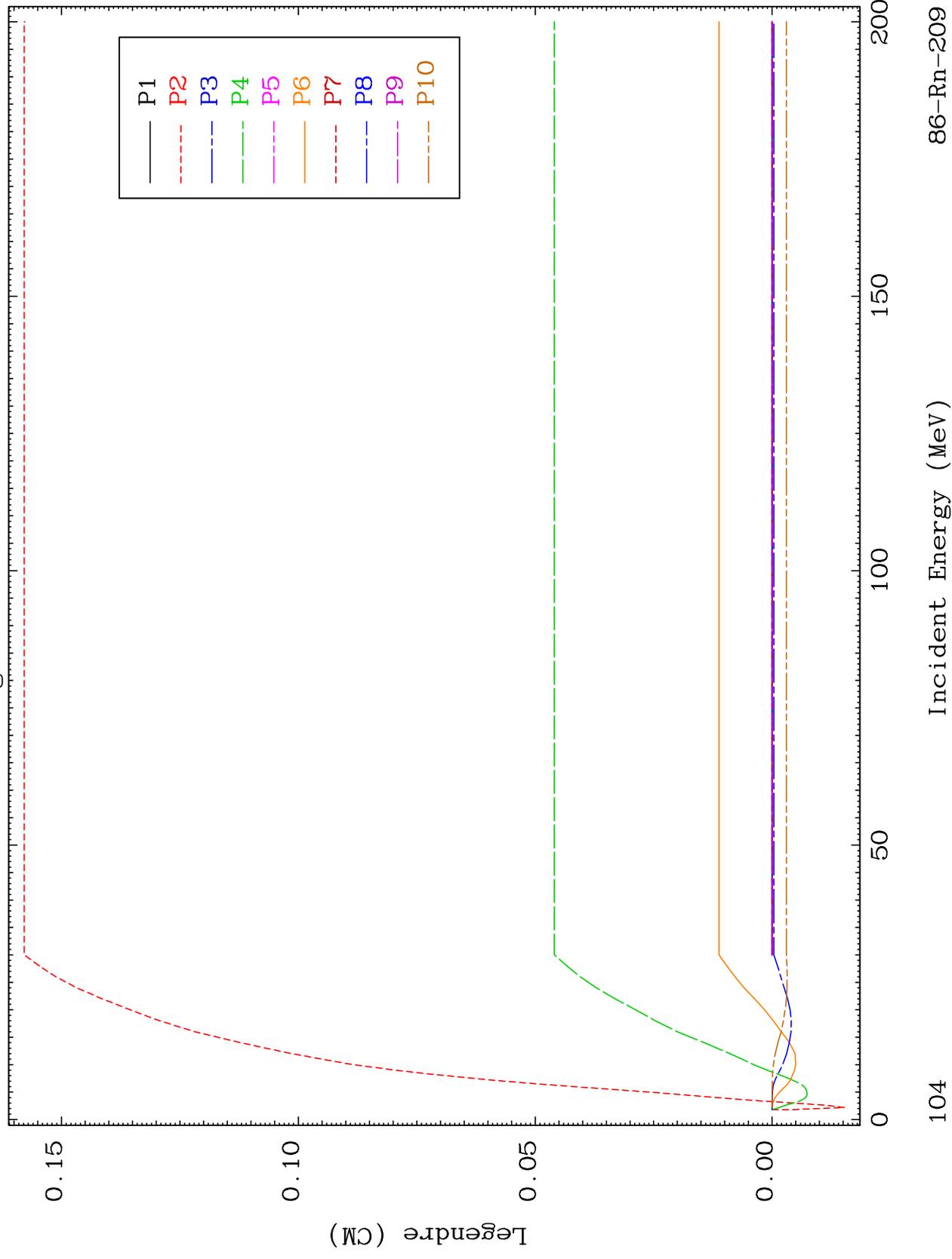
Incident Energy (MeV)

103

MAT 8619

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

86-Rn-209



86-Rn-209

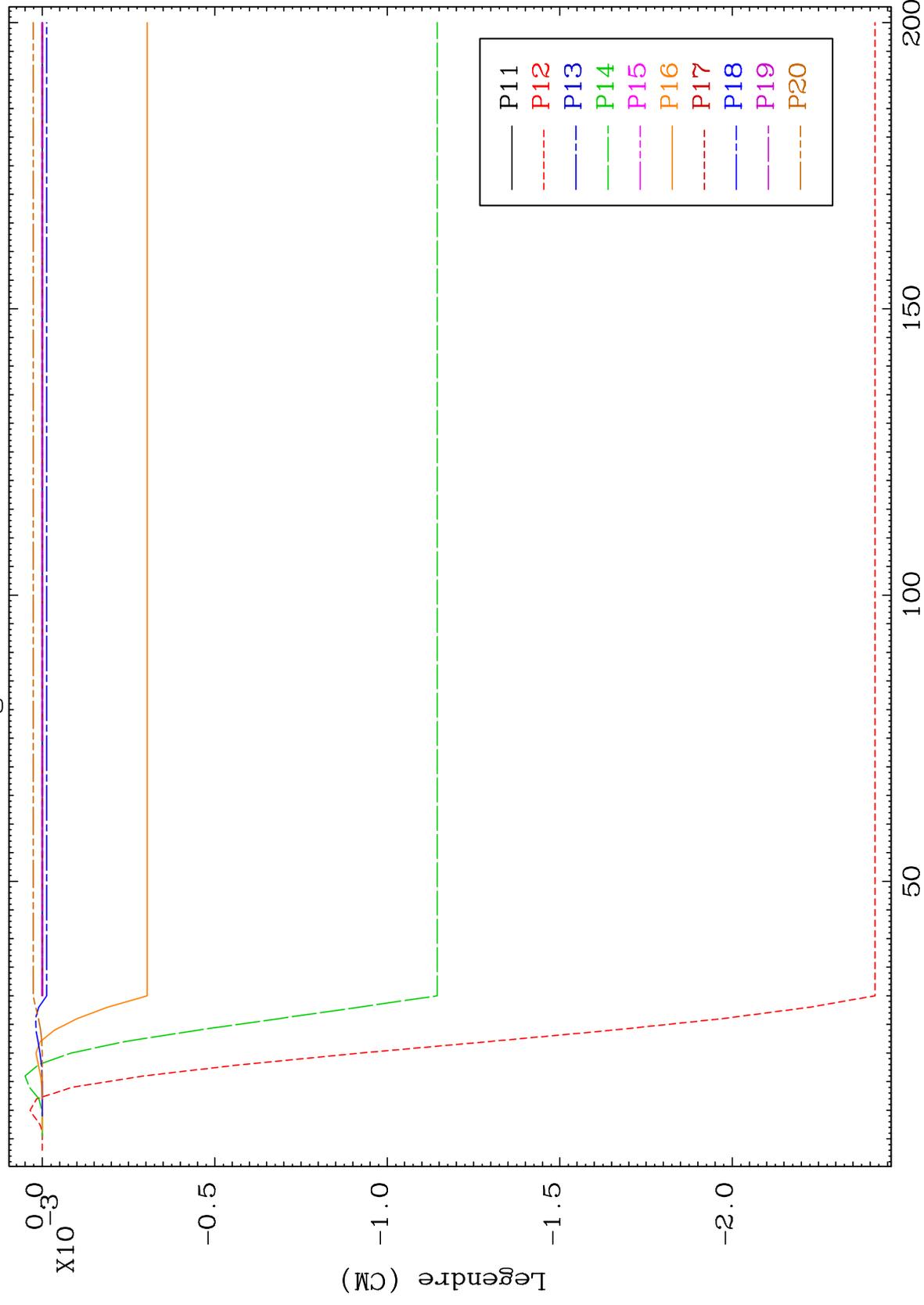
Incident Energy (MeV)

104

MAT 8619

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

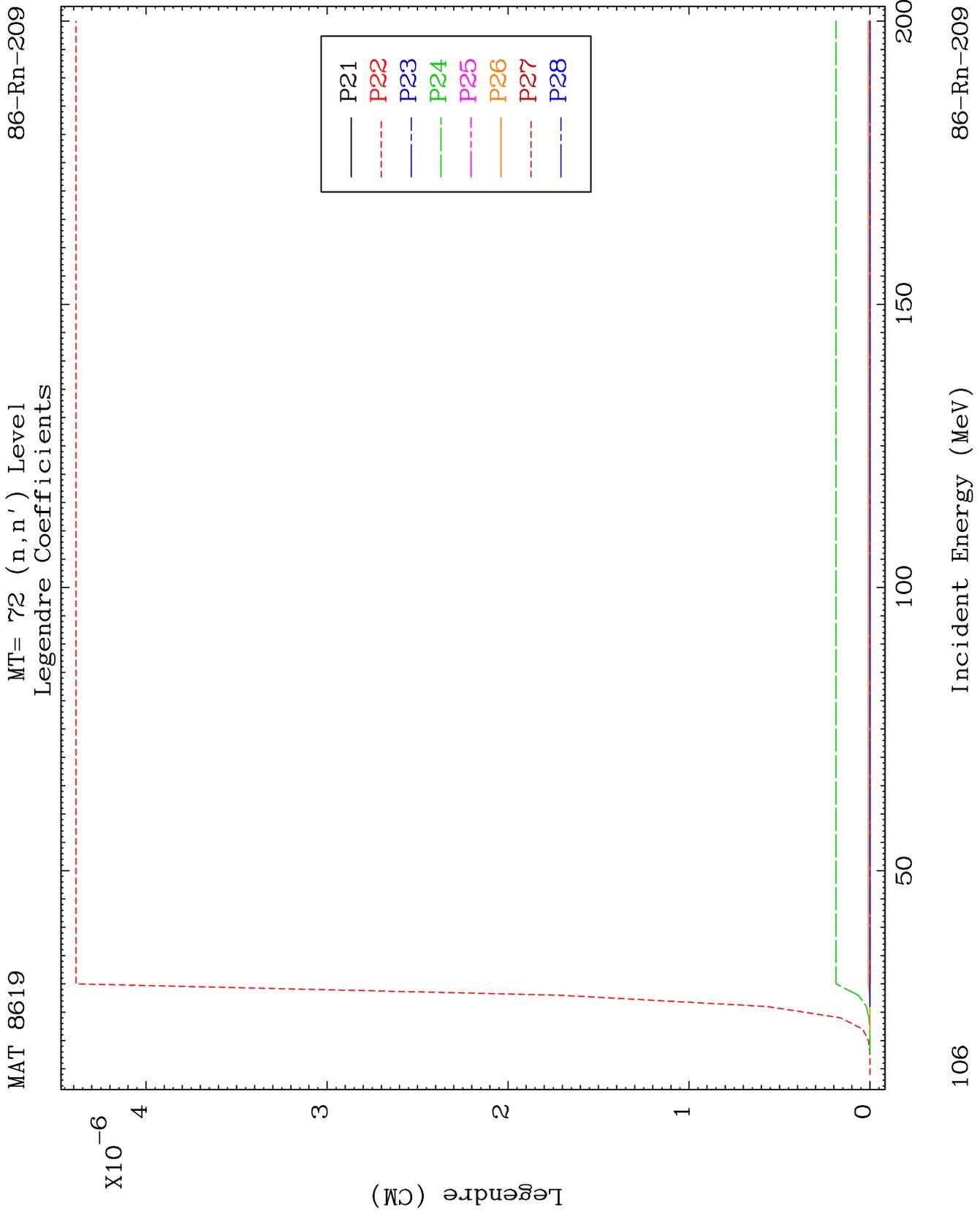
86-Rn-209



105

Incident Energy (MeV)

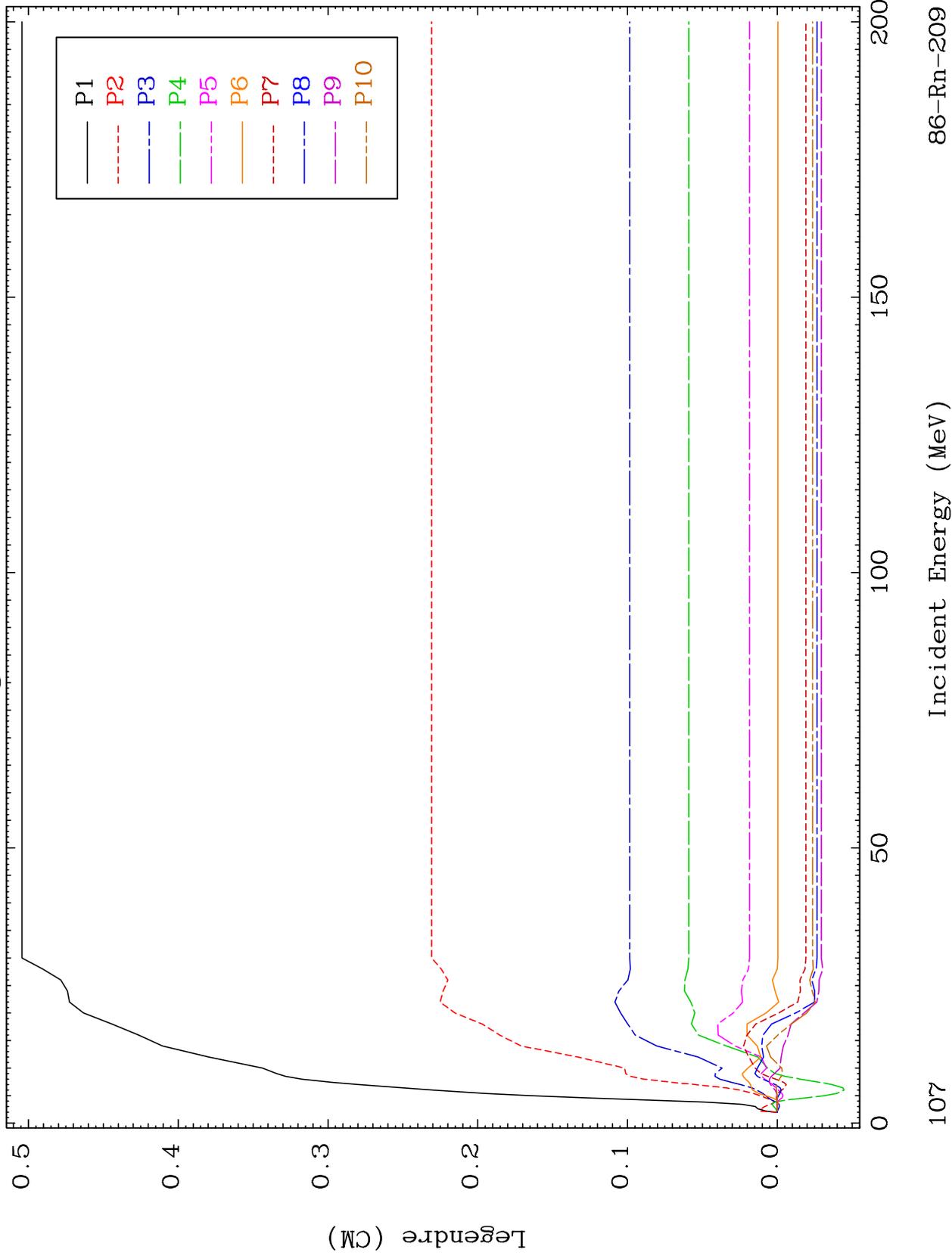
86-Rn-209



MAT 8619

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

86-Rn-209



86-Rn-209

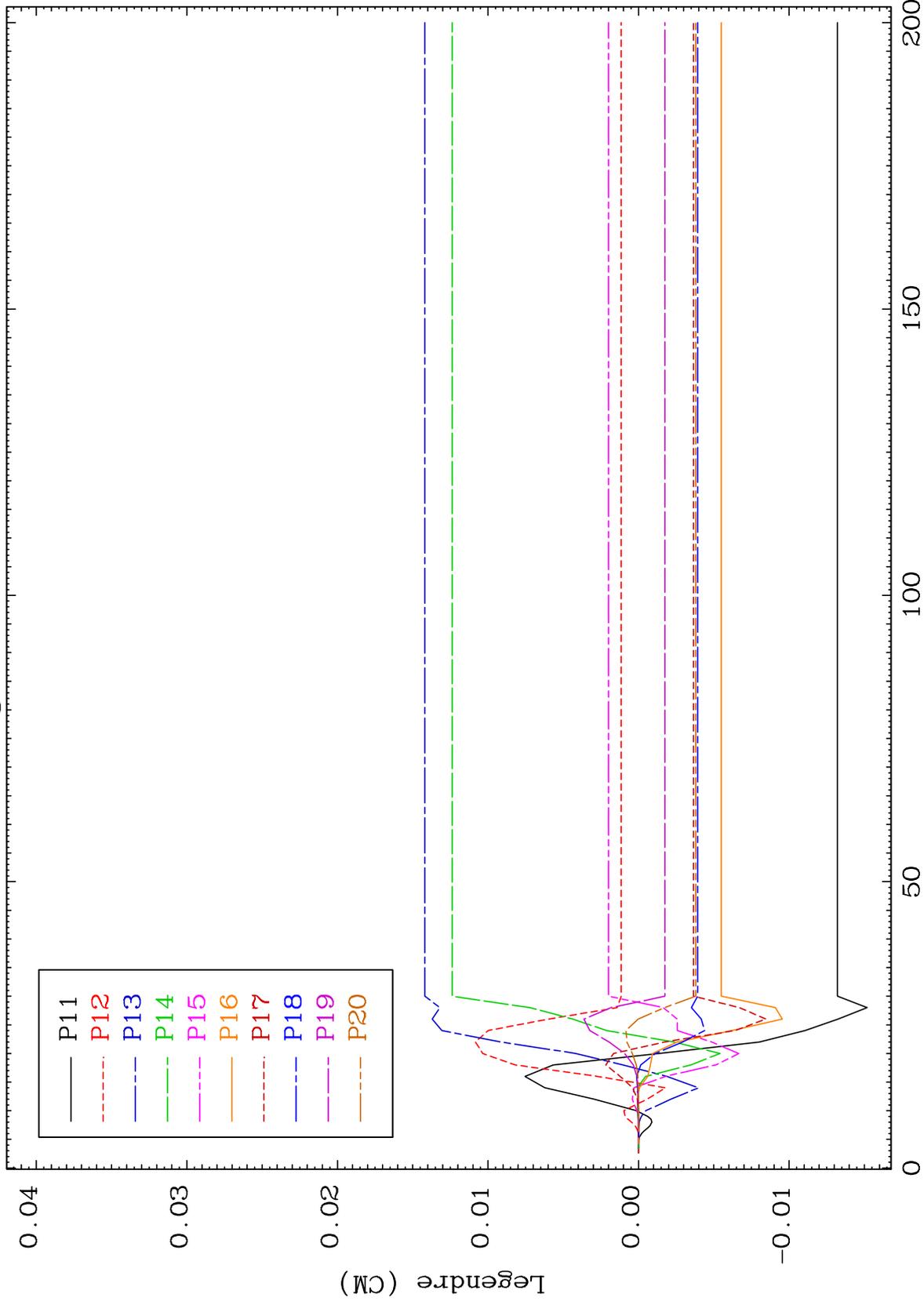
Incident Energy (MeV)

107

MAT 8619

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

86-Rn-209



108

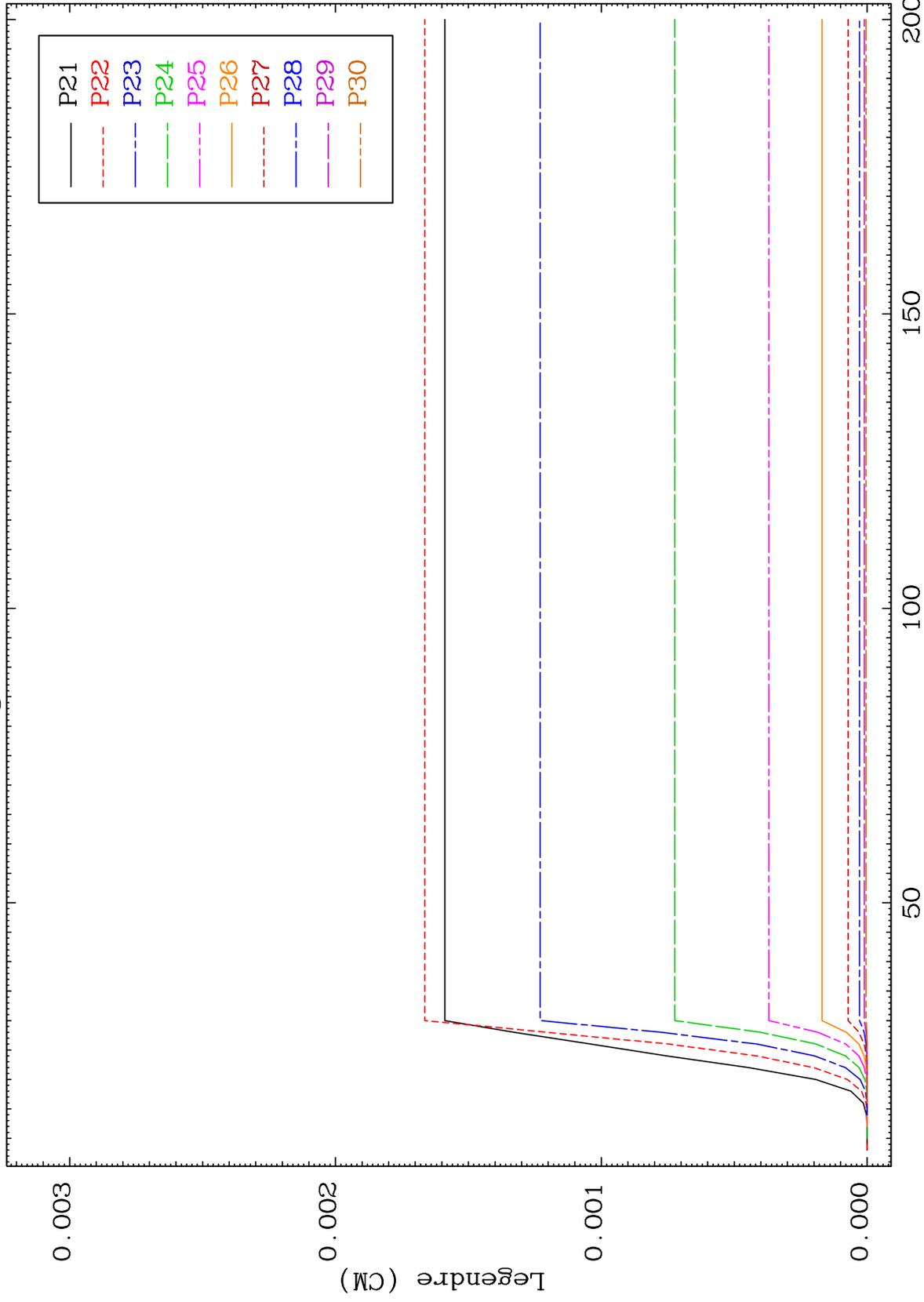
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

86-Rn-209



109

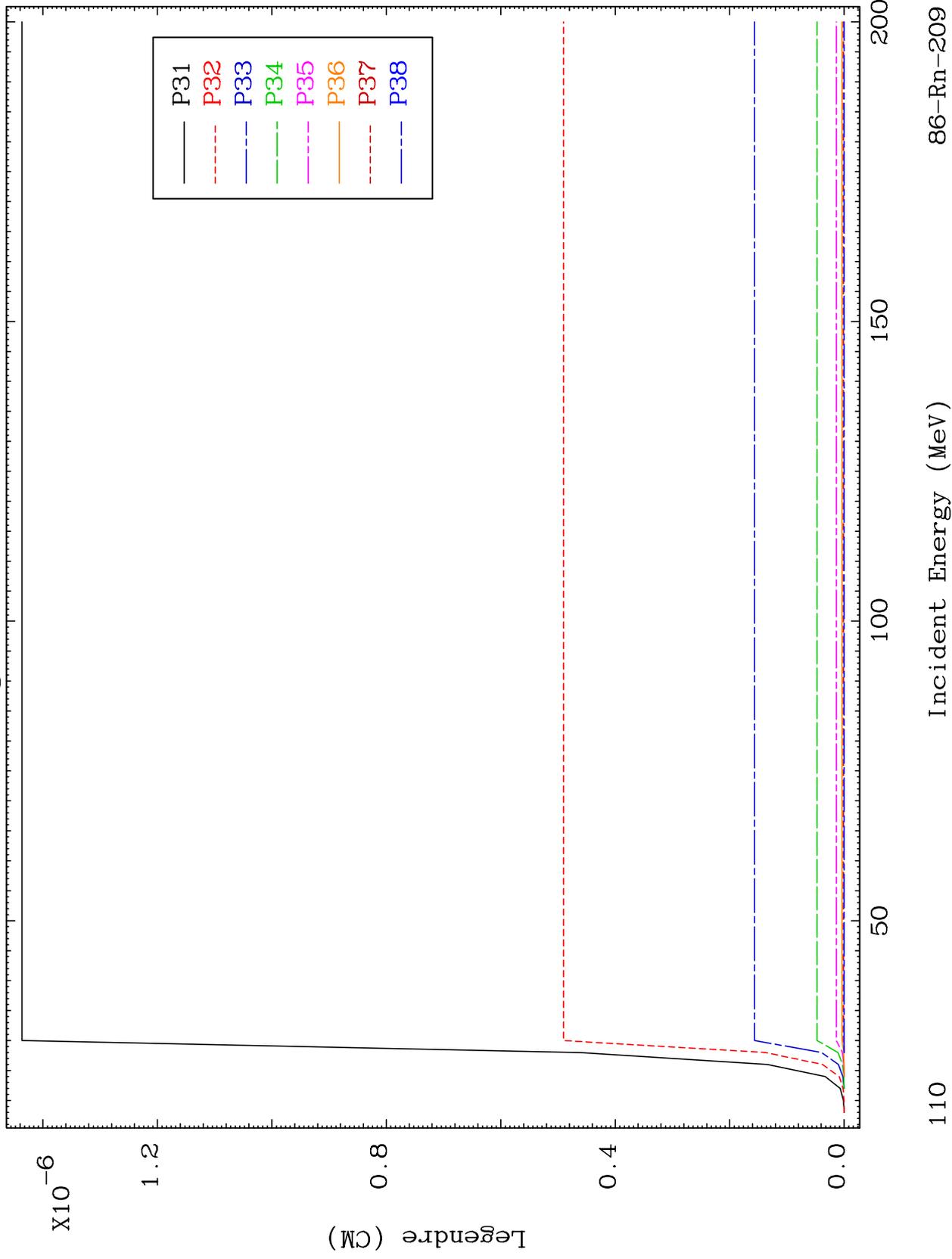
Incident Energy (MeV)

86-Rn-209

MAT 8619

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

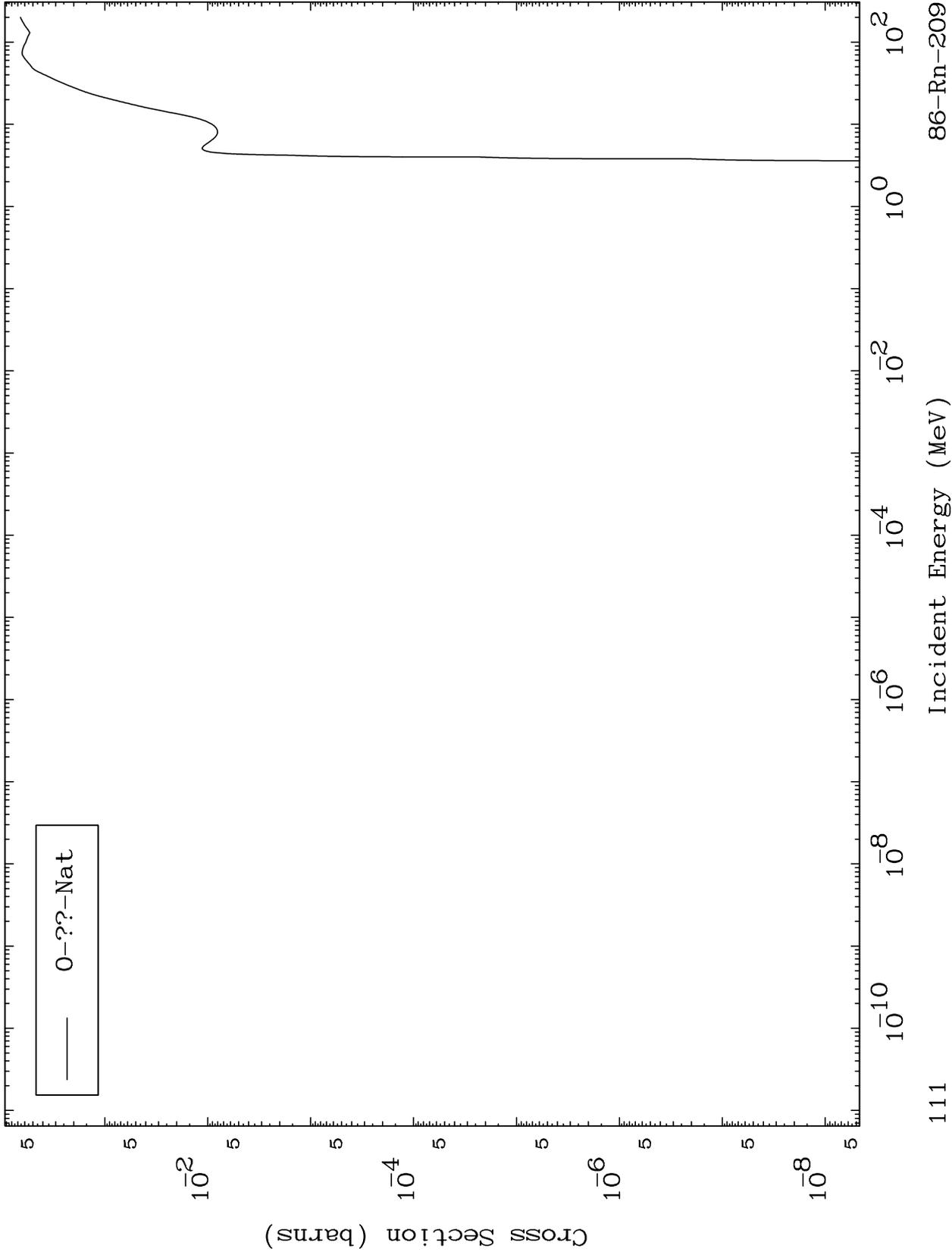
86-Rn-209



MAT 8619

Fission
Radionuclide Production Cross Section

86-Rn-209



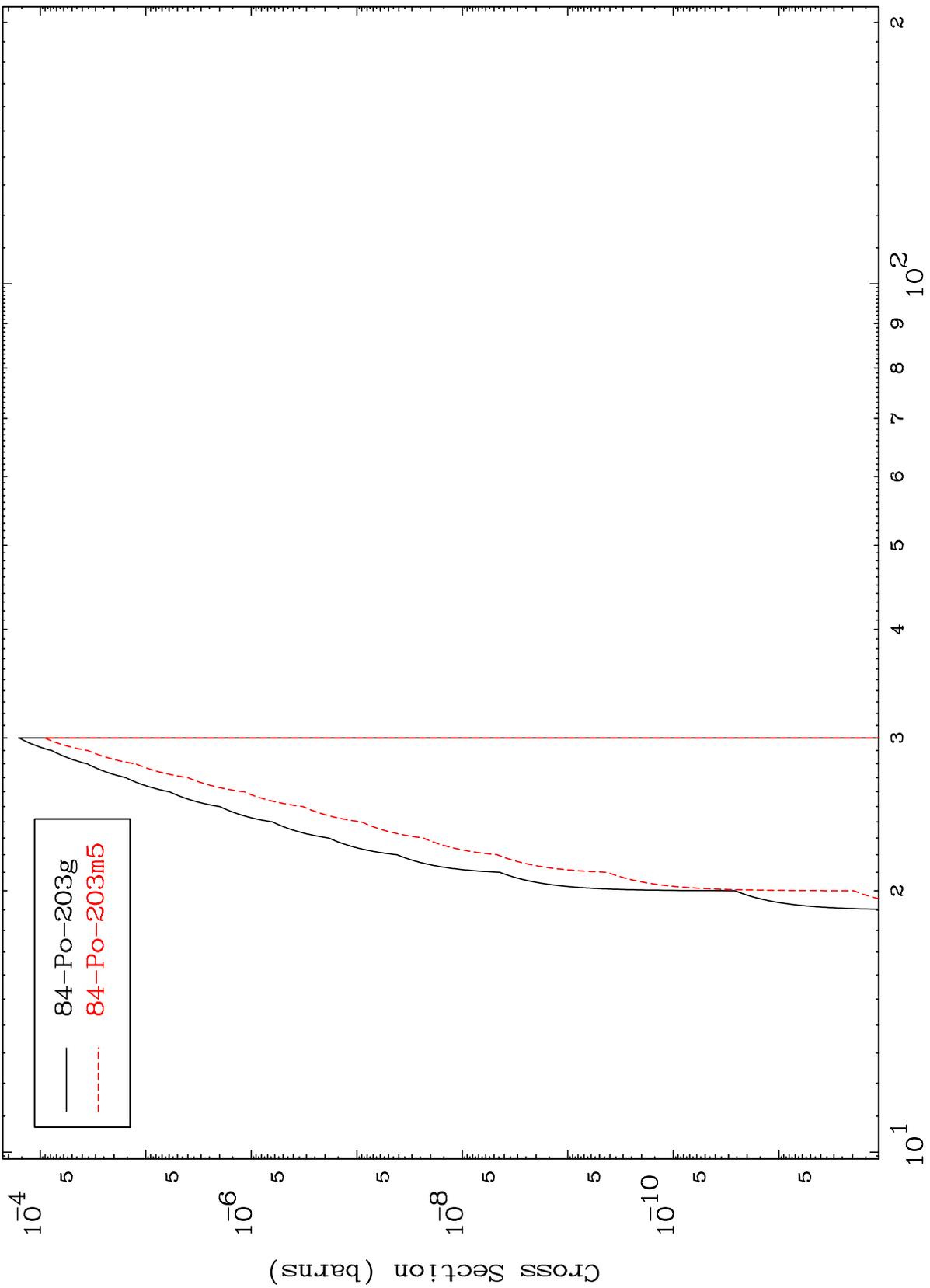
86-Rn-209

MAT 8619

(n,3n) α

86-Rn-209

Radionuclide Production Cross Section



112

Incident Energy (MeV)

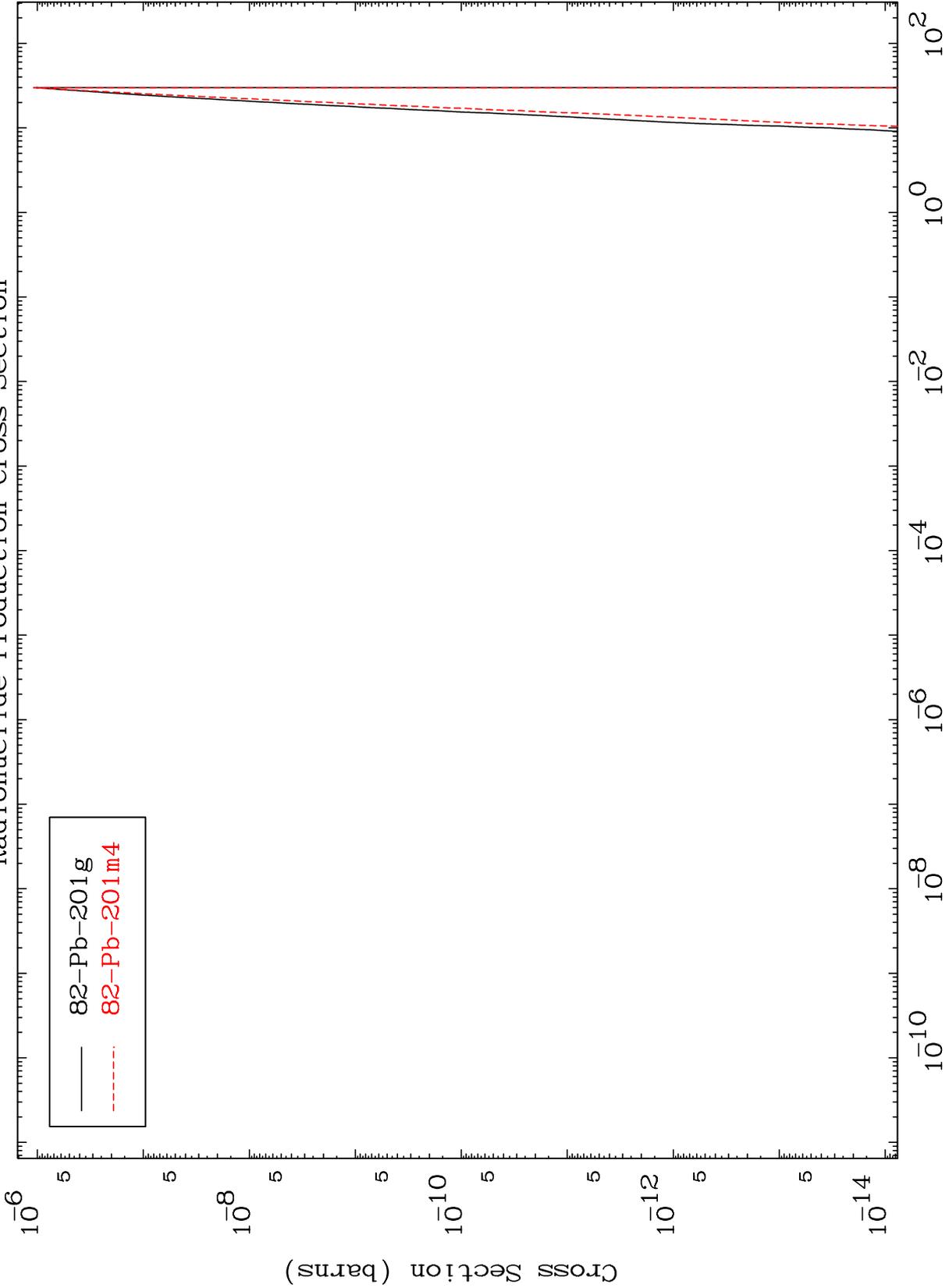
86-Rn-209

MAT 8619

(n,n') 2 α

86-Rn-209

Radionuclide Production Cross Section



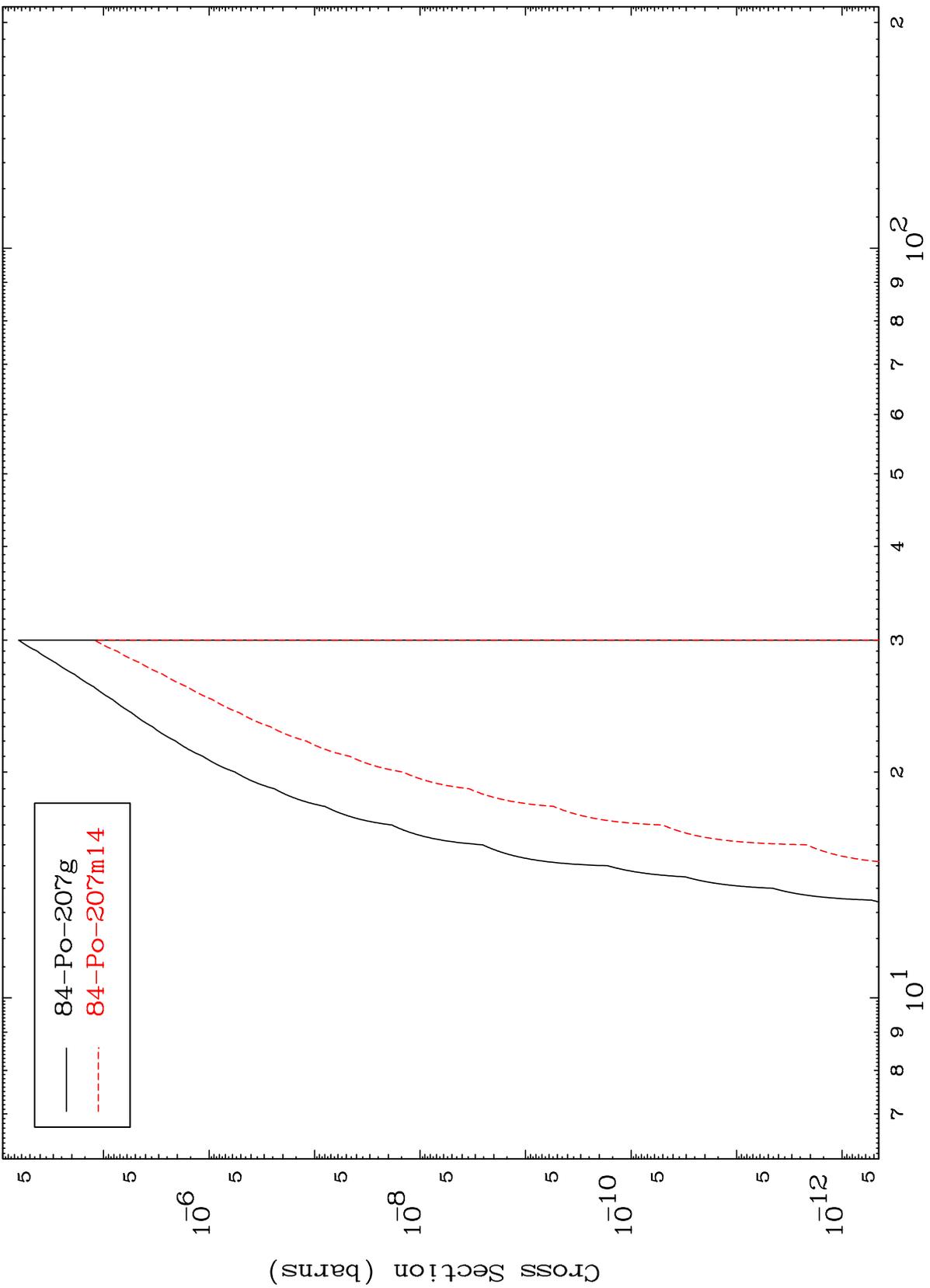
82-Pb-201g
82-Pb-201m4

MAT 8619

(n,2n) p

86-Rn-209

Radionuclide Production Cross Section



84-Po-207g
84-Po-207m14

114

Incident Energy (MeV)

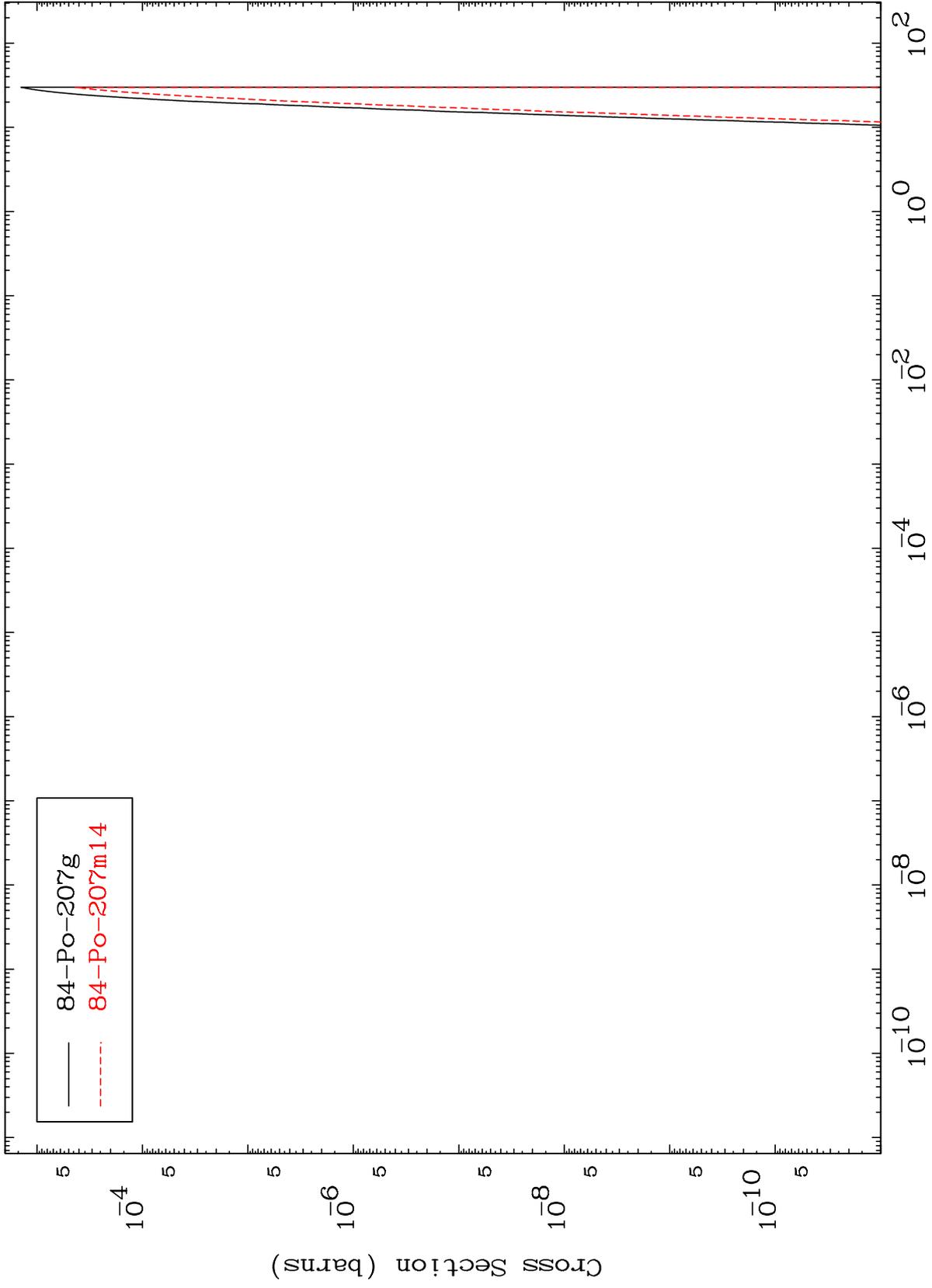
86-Rn-209

MAT 8619

(n,He-3)

86-Rn-209

Radionuclide Production Cross Section



115

Incident Energy (MeV)

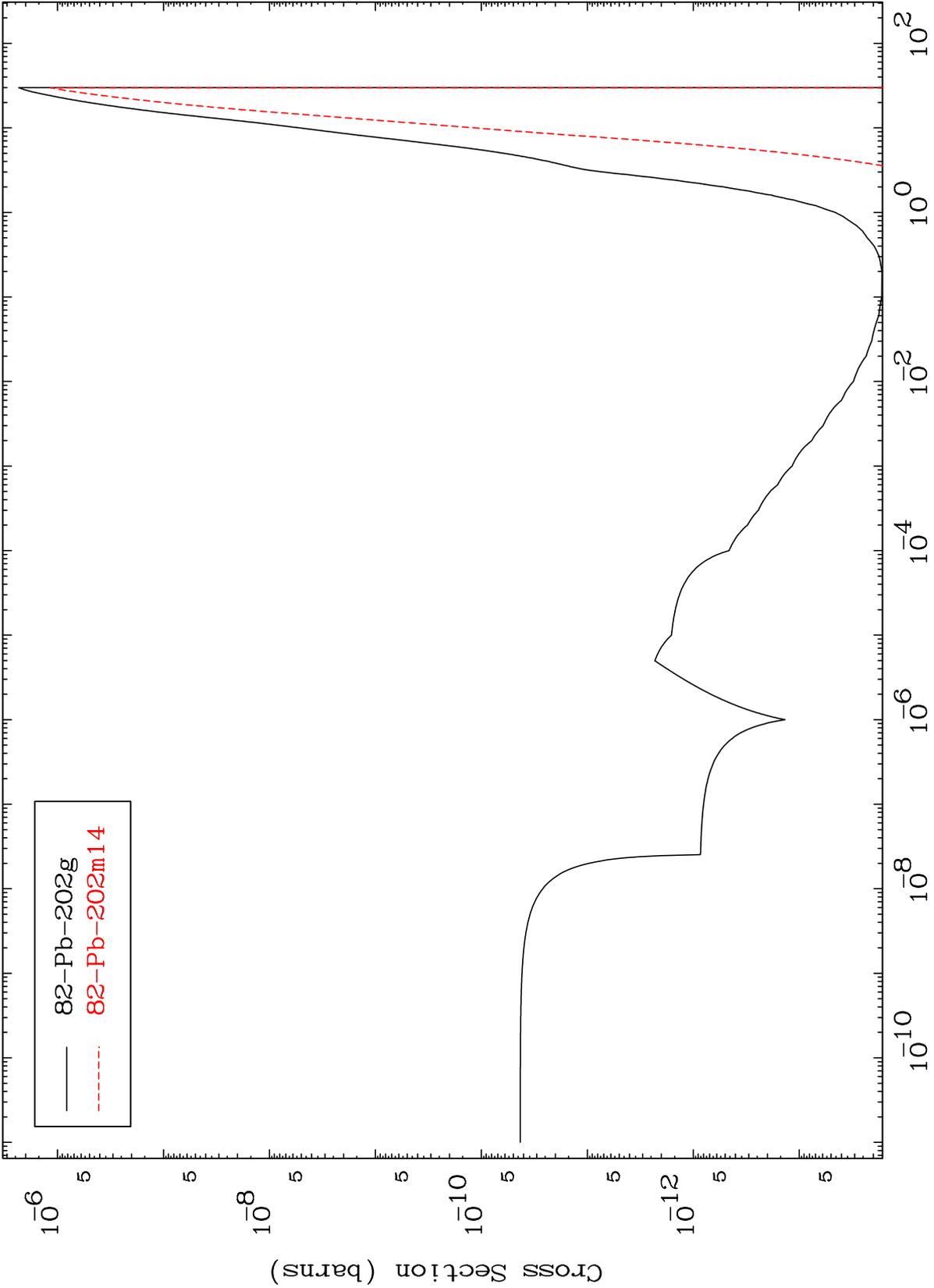
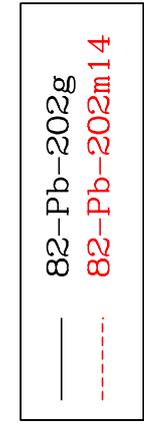
86-Rn-209

MAT 8619

(n,2α)

86-Rn-209

Radionuclide Production Cross Section

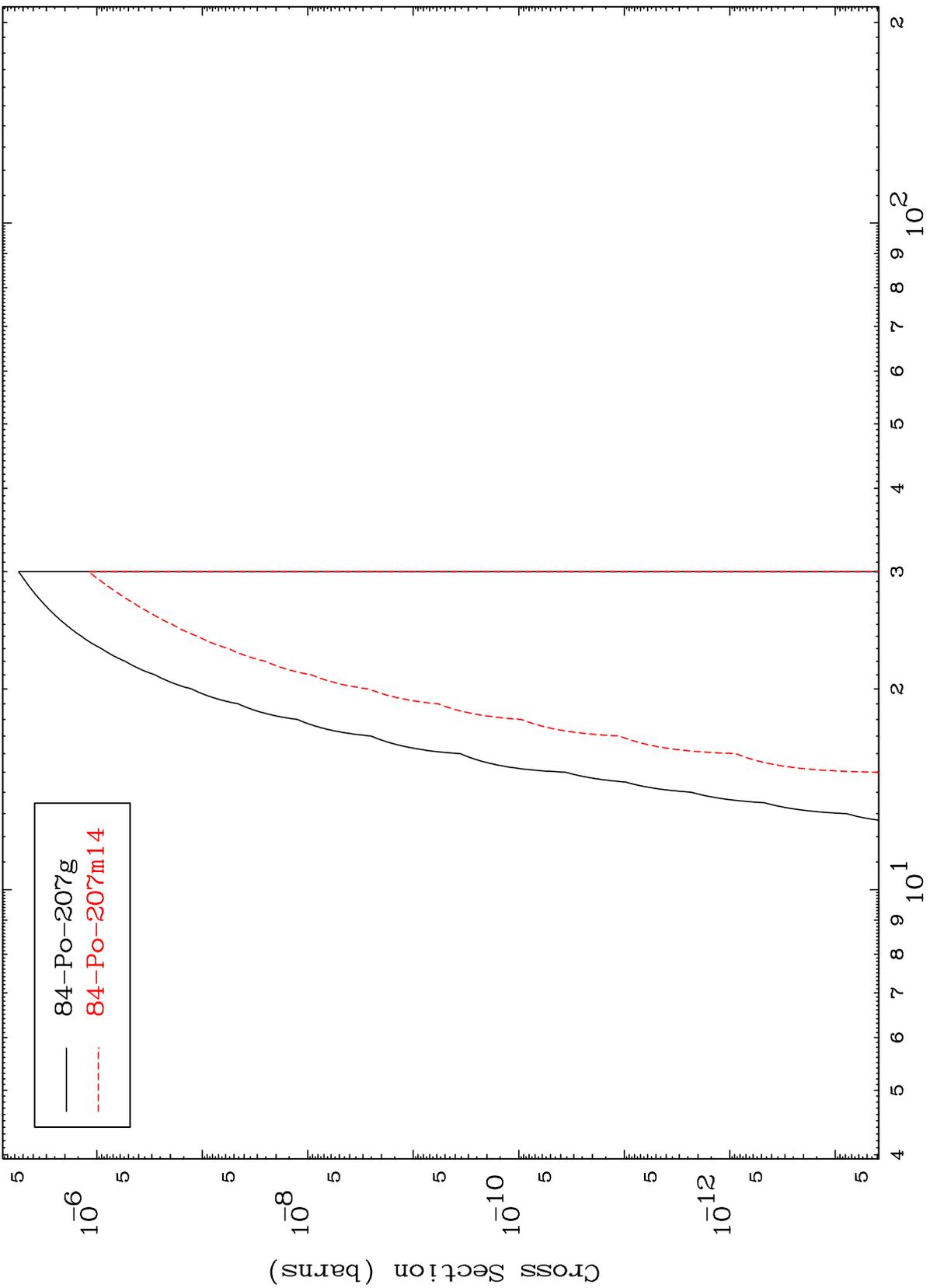


MAT 8619

(n,p) d

86-Rn-209

Radionuclide Production Cross Section



117

Incident Energy (MeV)

86-Rn-209