

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

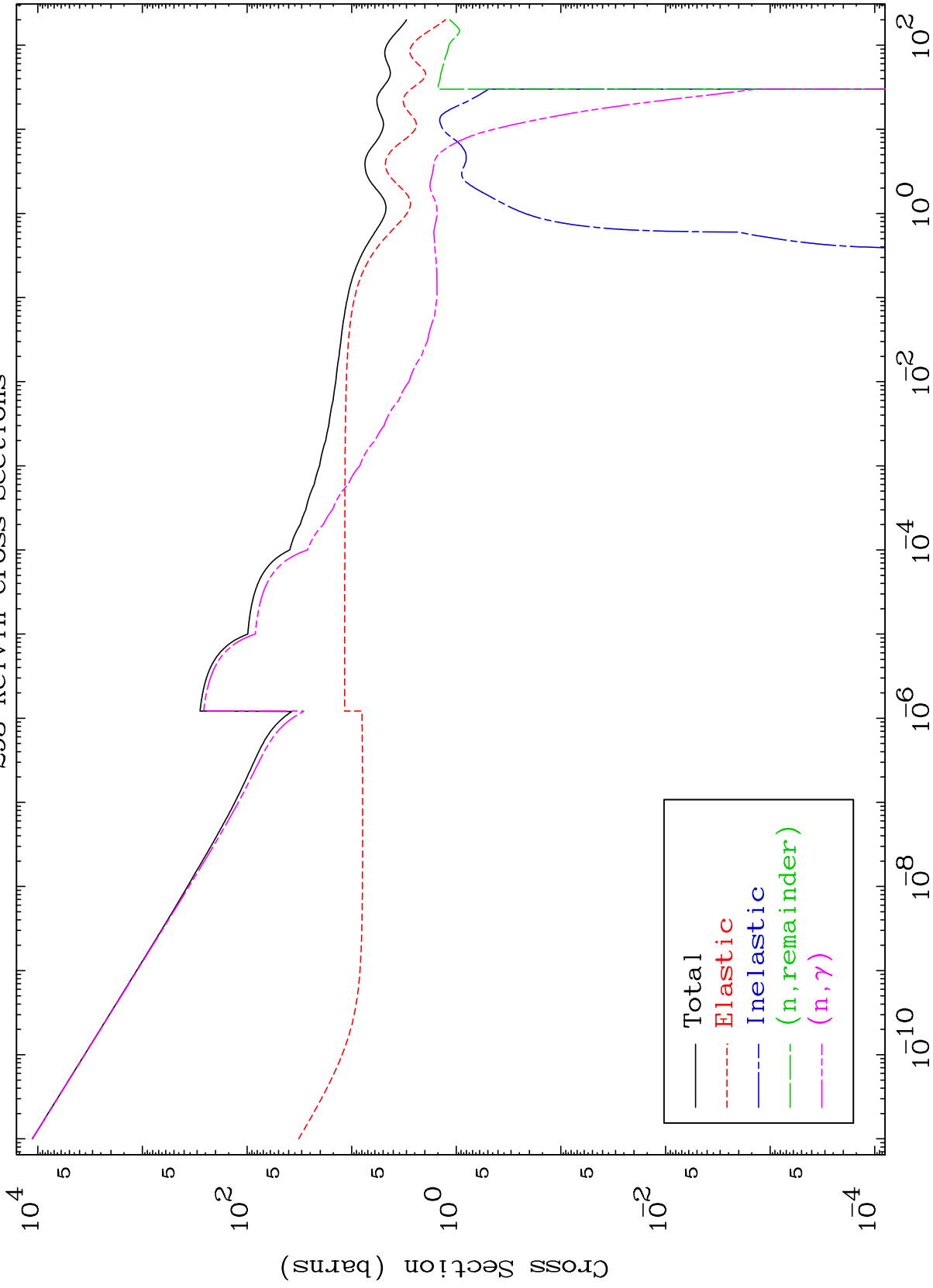
Press Mouse Button to Start

MAT 8701

Major

293 Kelvin Cross Sections

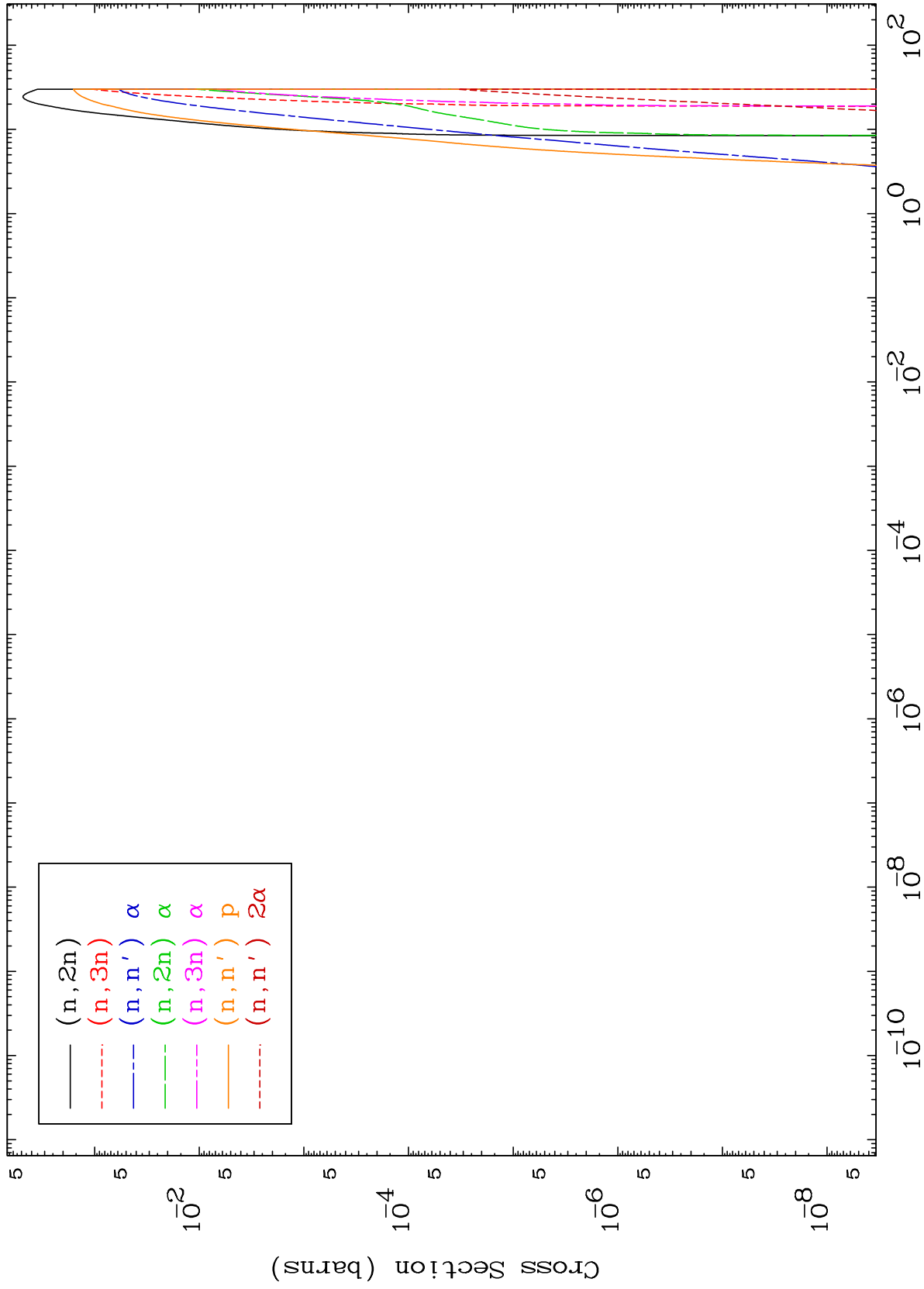
87-Fr-204



MAT 8701

Neutron Production
293 Kelvin Cross Sections

87-Fr-204



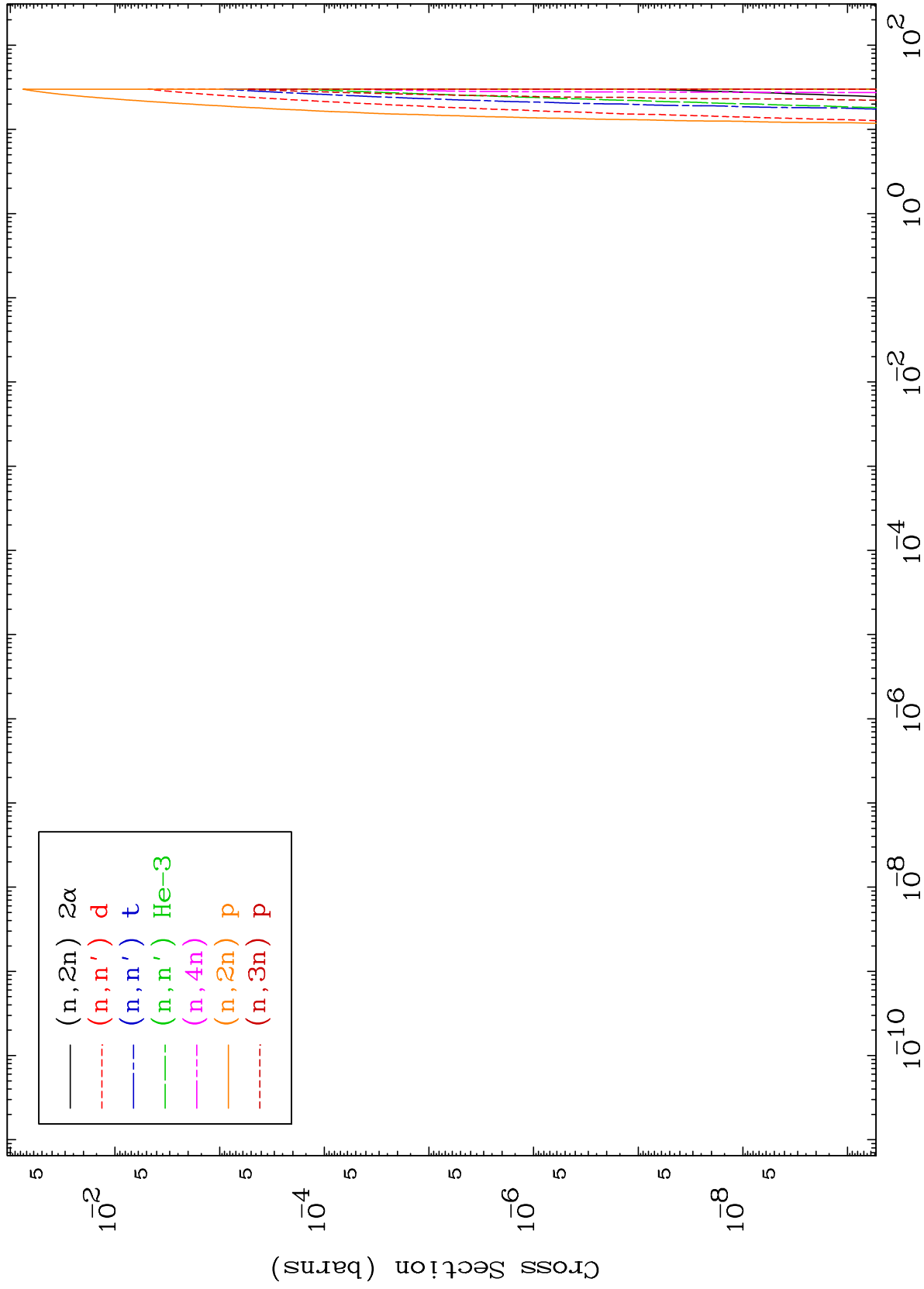
2

87-Fr-204

MAT 8701

Neutron Production
293 Kelvin Cross Sections

87-Fr-204

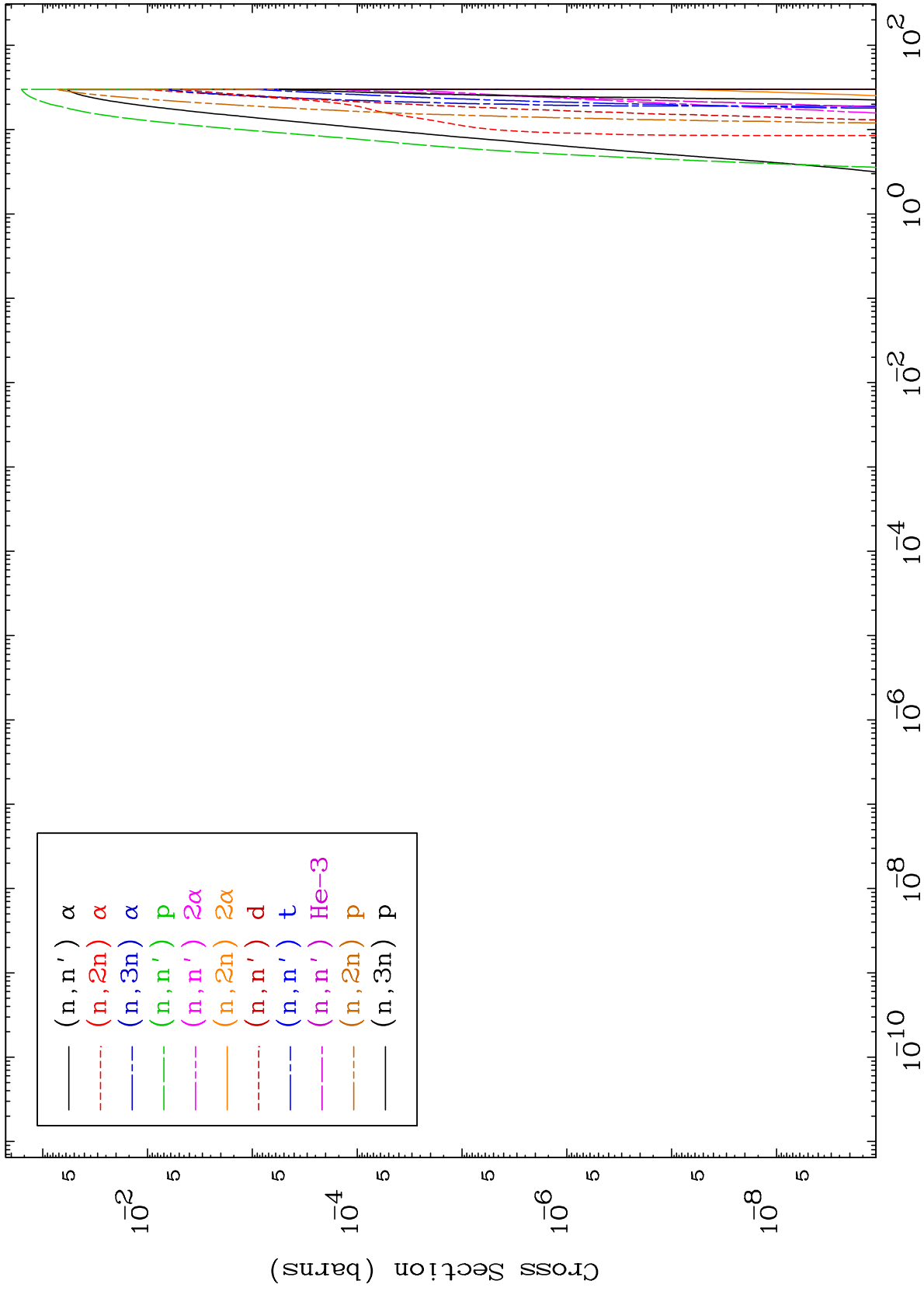


87-Fr-204

MAT 8701

293 Kelvin Cross Sections

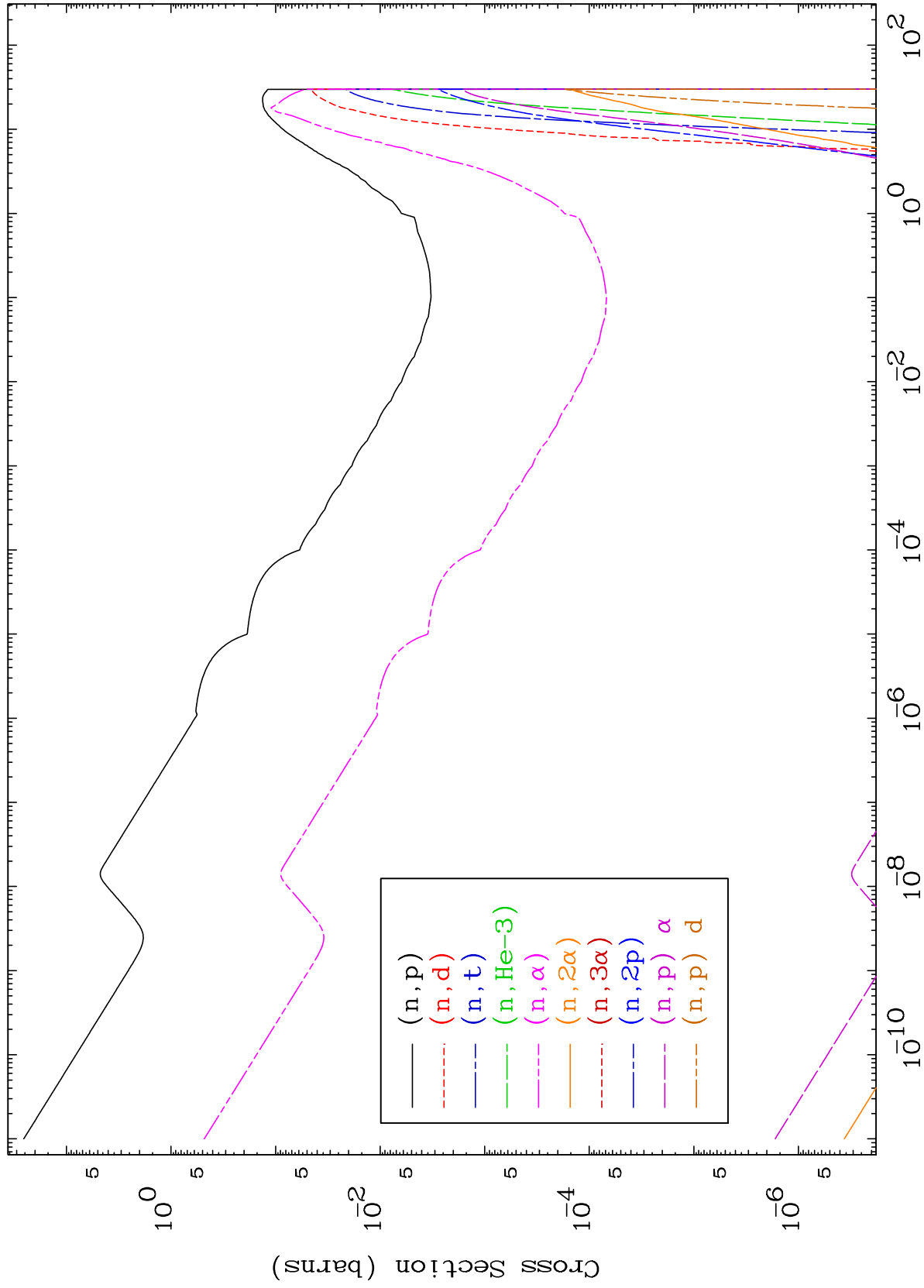
87-Fr-204



MAT 8701

293 Kelvin Cross Sections

87-Fr-204



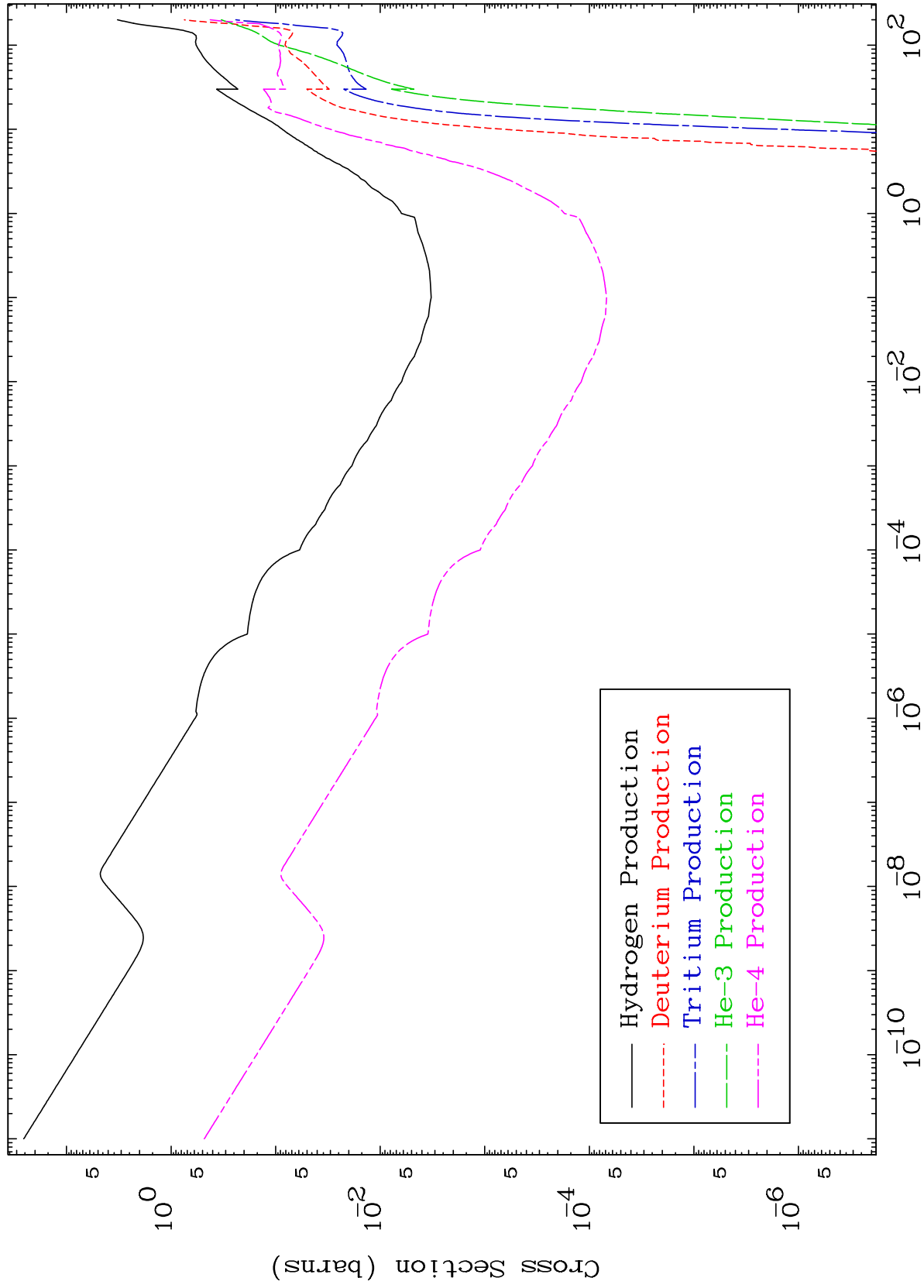
5

87-Fr-204

MAT 8701

Particle Production
293 Kelvin Cross Sections

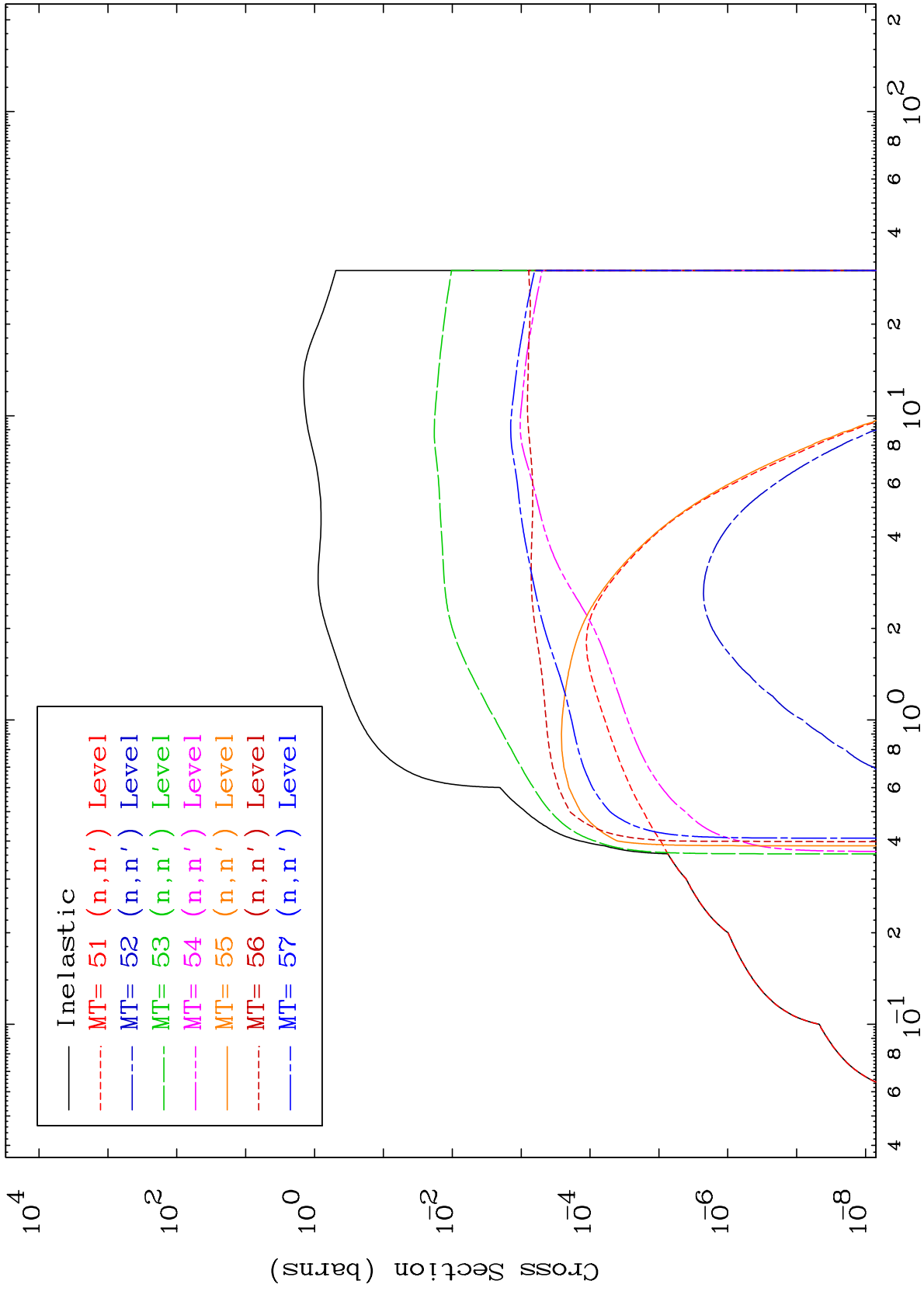
87-Fr-204



MAT 8701

(n,n') Level
293 Kelvin Cross Sections

87-Fr-204

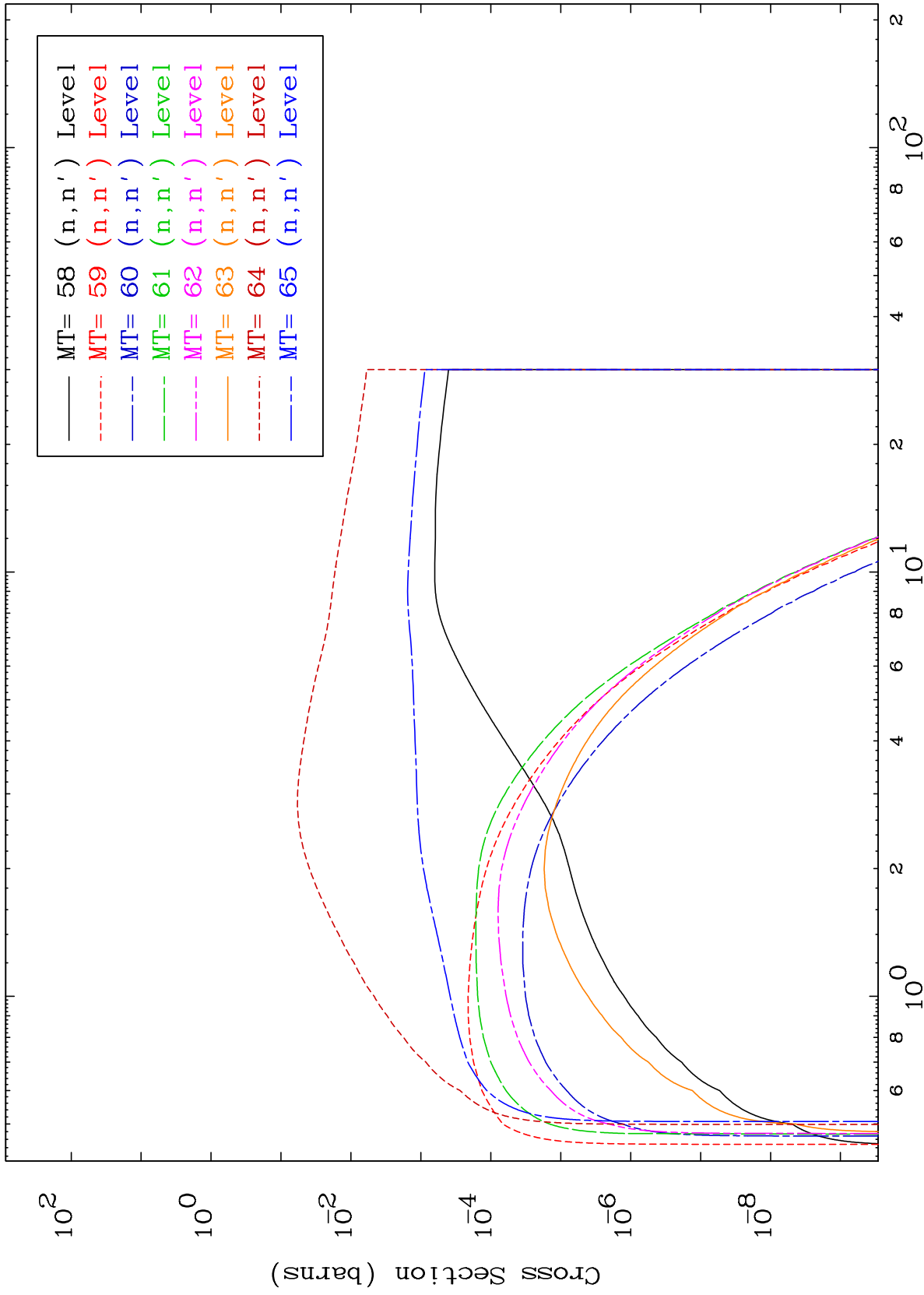


MAT 8701

(n,n') Level

87-Fr-204

293 Kelvin Cross Sections



8

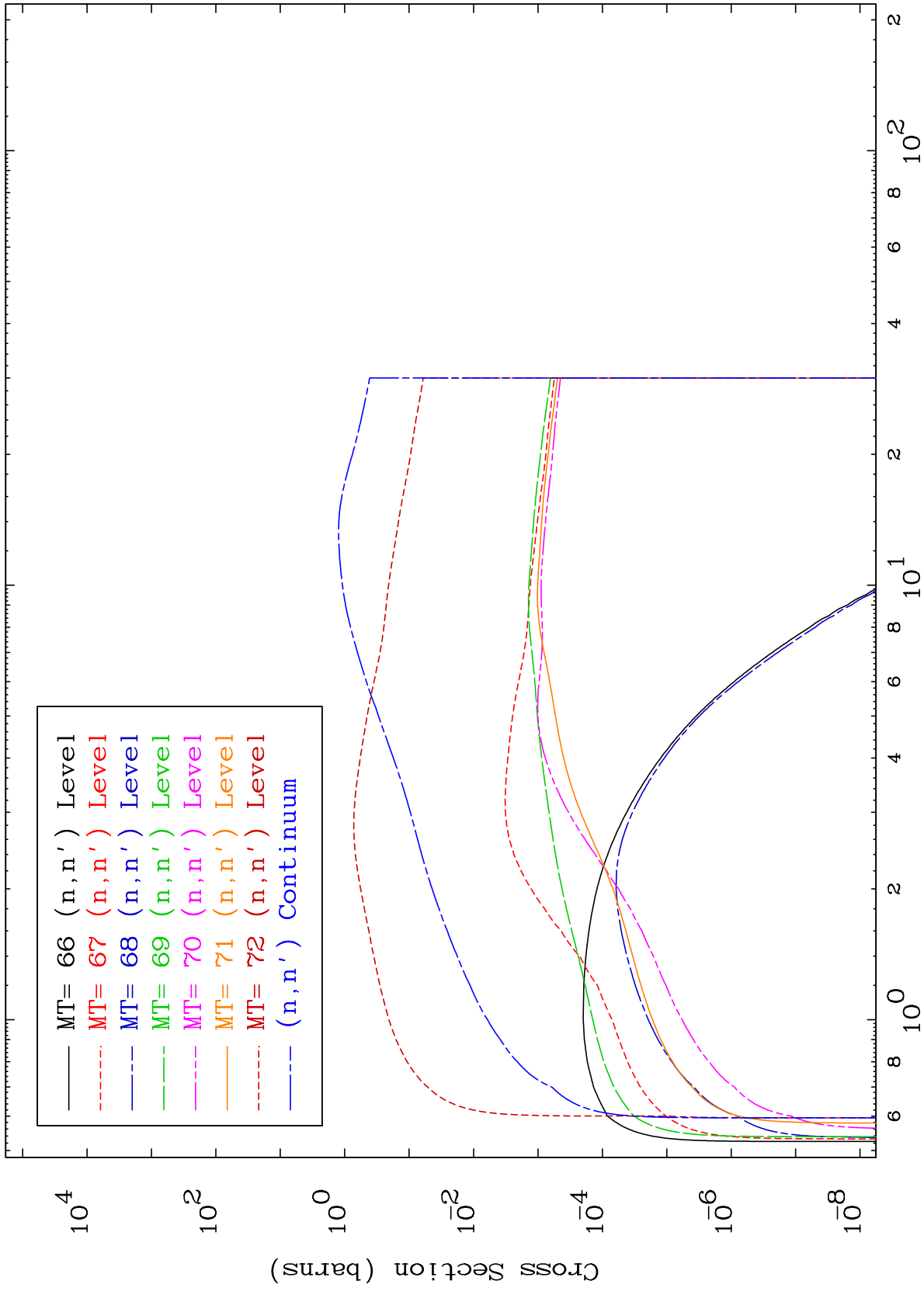
Incident Energy (MeV)

87-Fr-204

MAT 8701

(n,n') Level
293 Kelvin Cross Sections

87-Fr-204



9

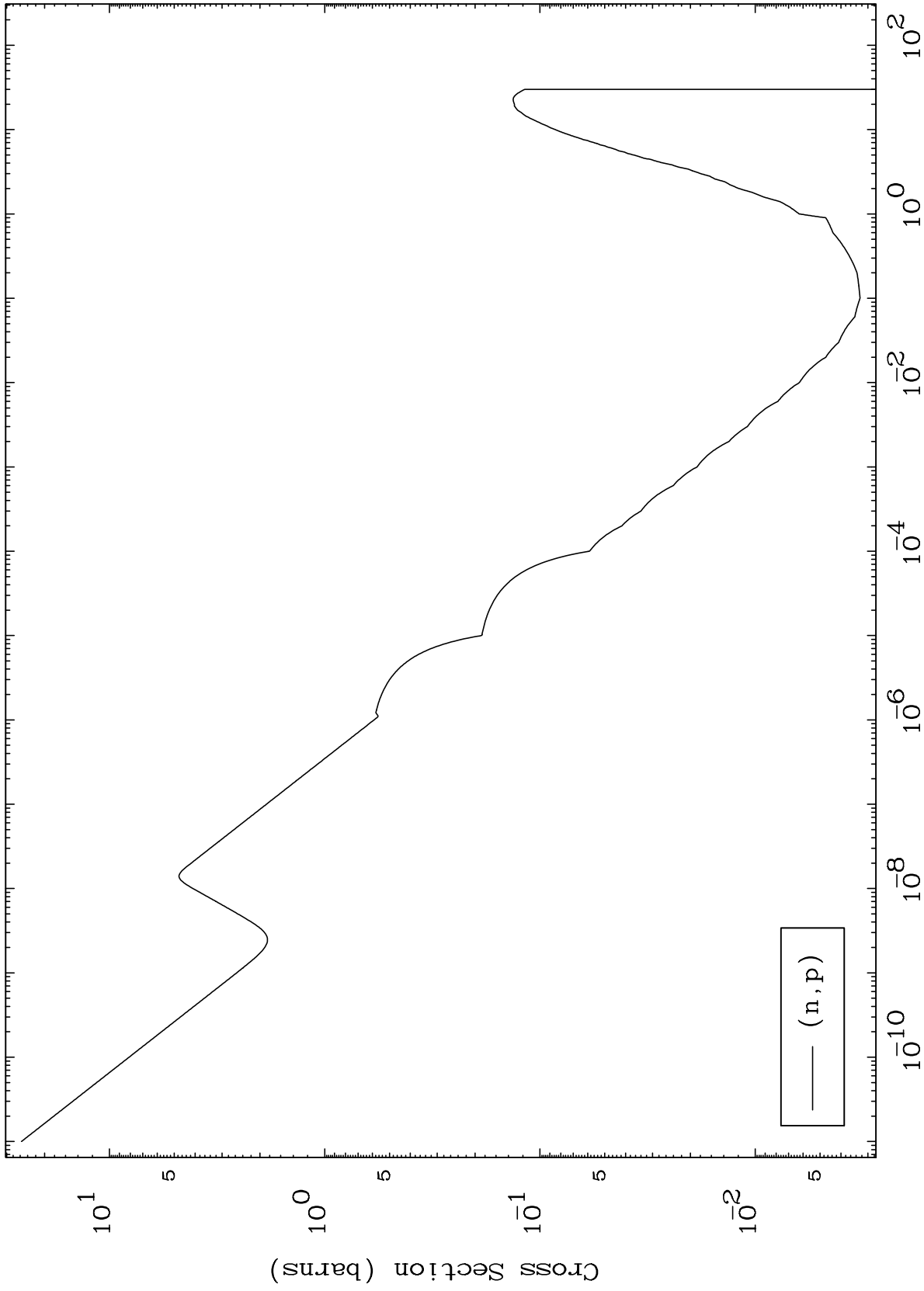
Incident Energy (MeV)

87-Fr-204

MAT 8701

(n,p) Levels
293 Kelvin Cross Sections

87-Fr-204



10

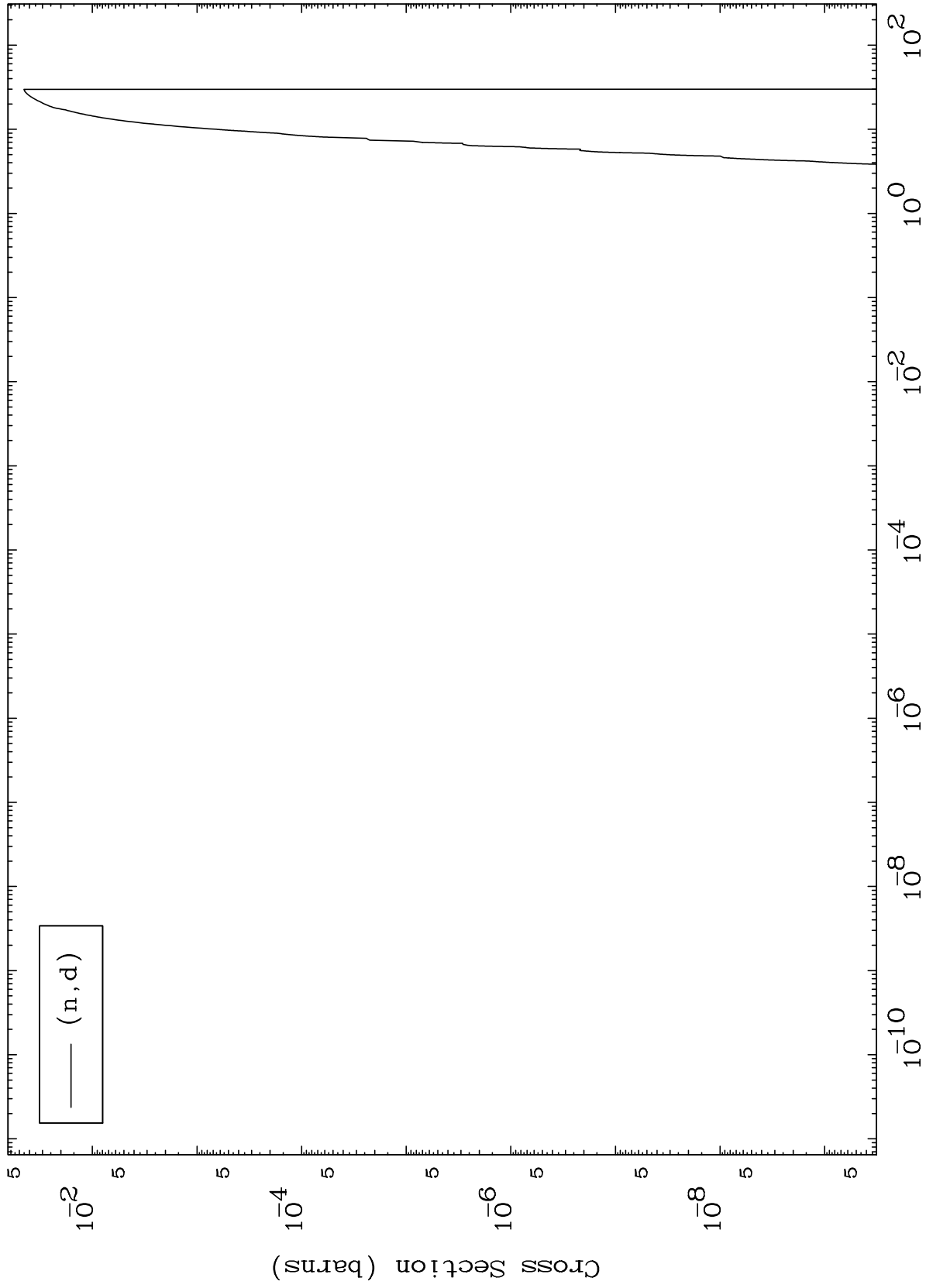
Incident Energy (MeV)

87-Fr-204

MAT 8701

(n,d) Levels
293 Kelvin Cross Sections

87-Fr-204



11

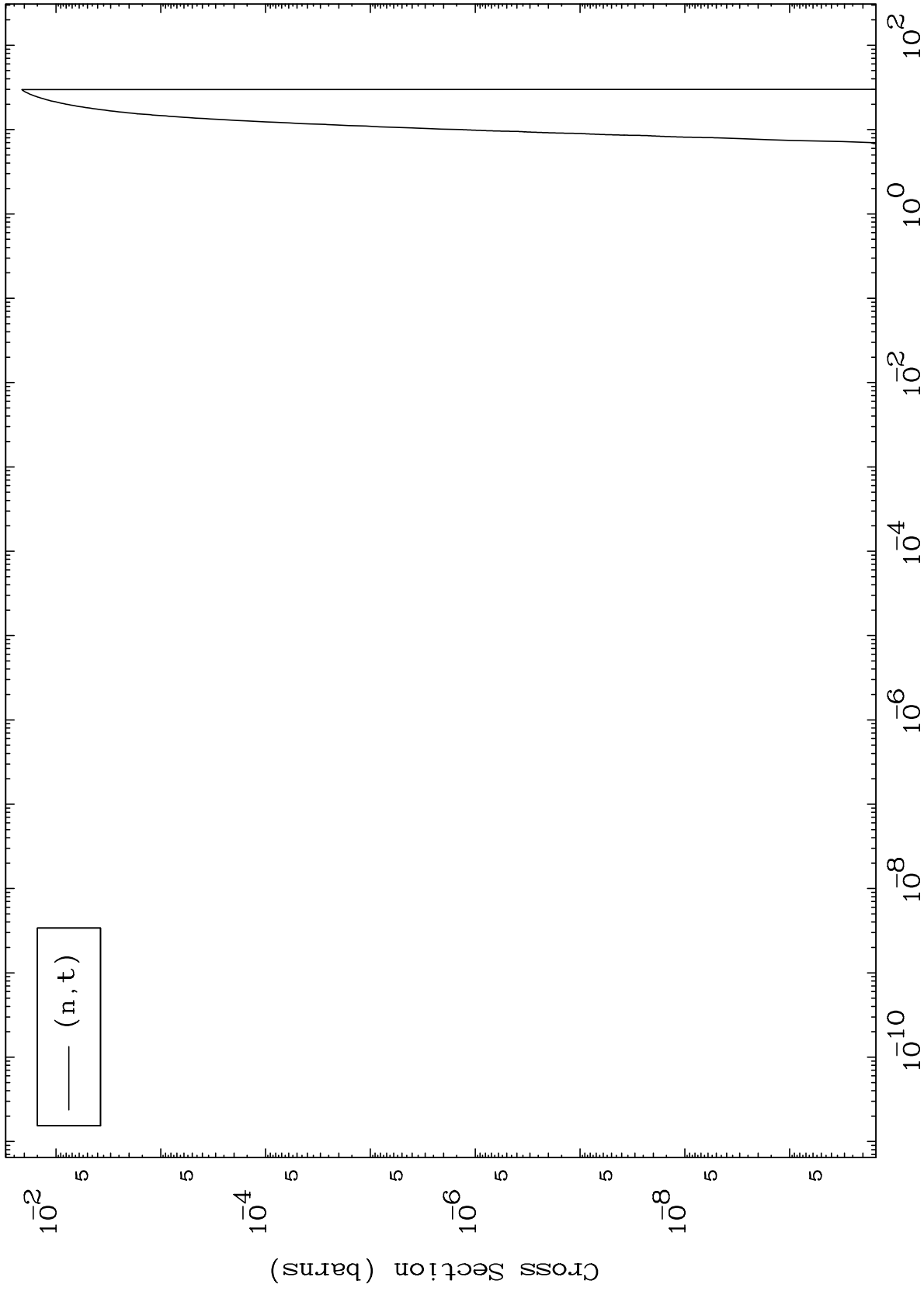
Incident Energy (MeV)

87-Fr-204

MAT 8701

(n,t) Levels
293 Kelvin Cross Sections

87-Fr-204



12

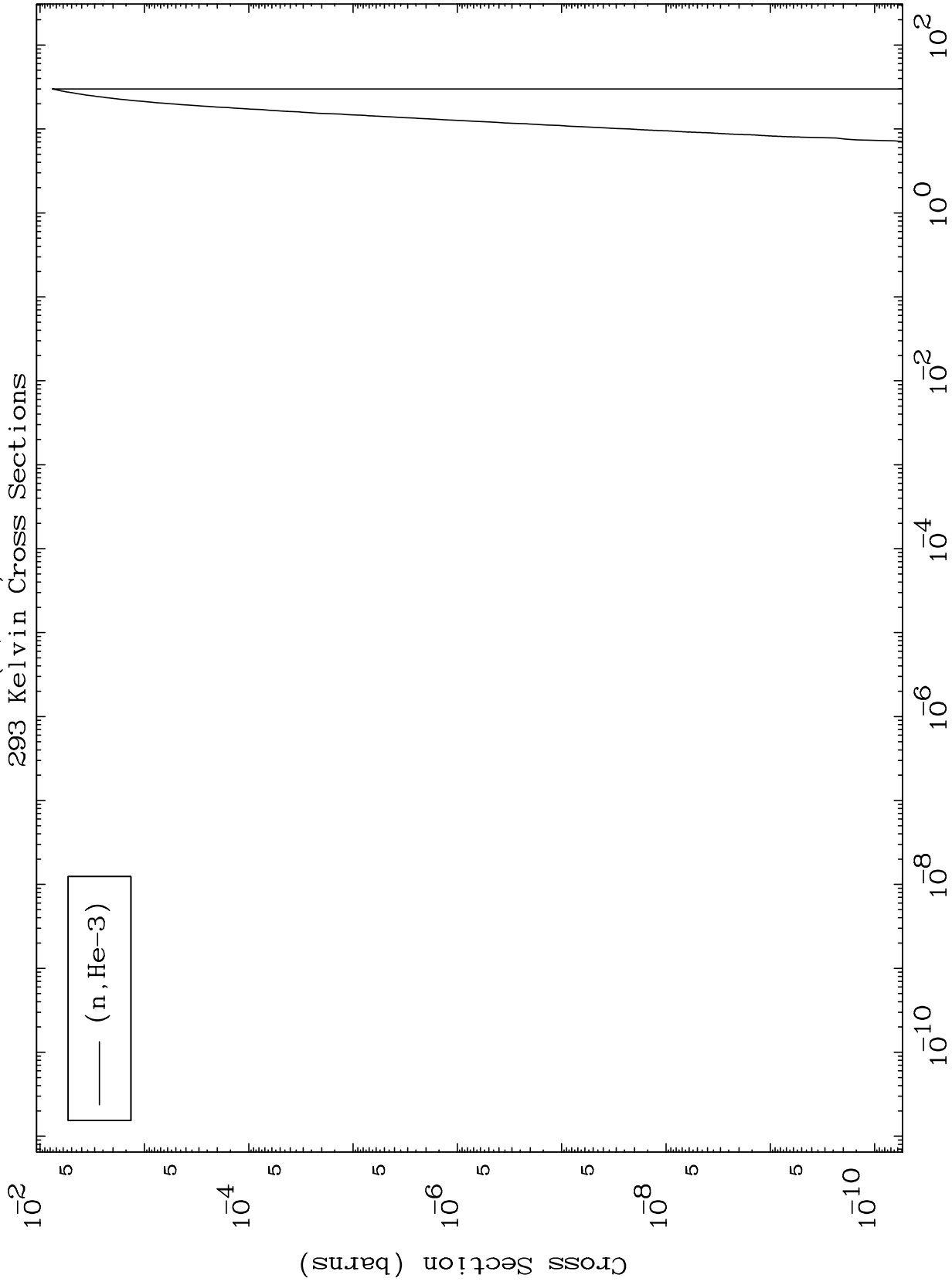
Incident Energy (MeV)

87-Fr-204

MAT 8701

(n,He3) Levels
293 Kelvin Cross Sections

87-Fr-204



13

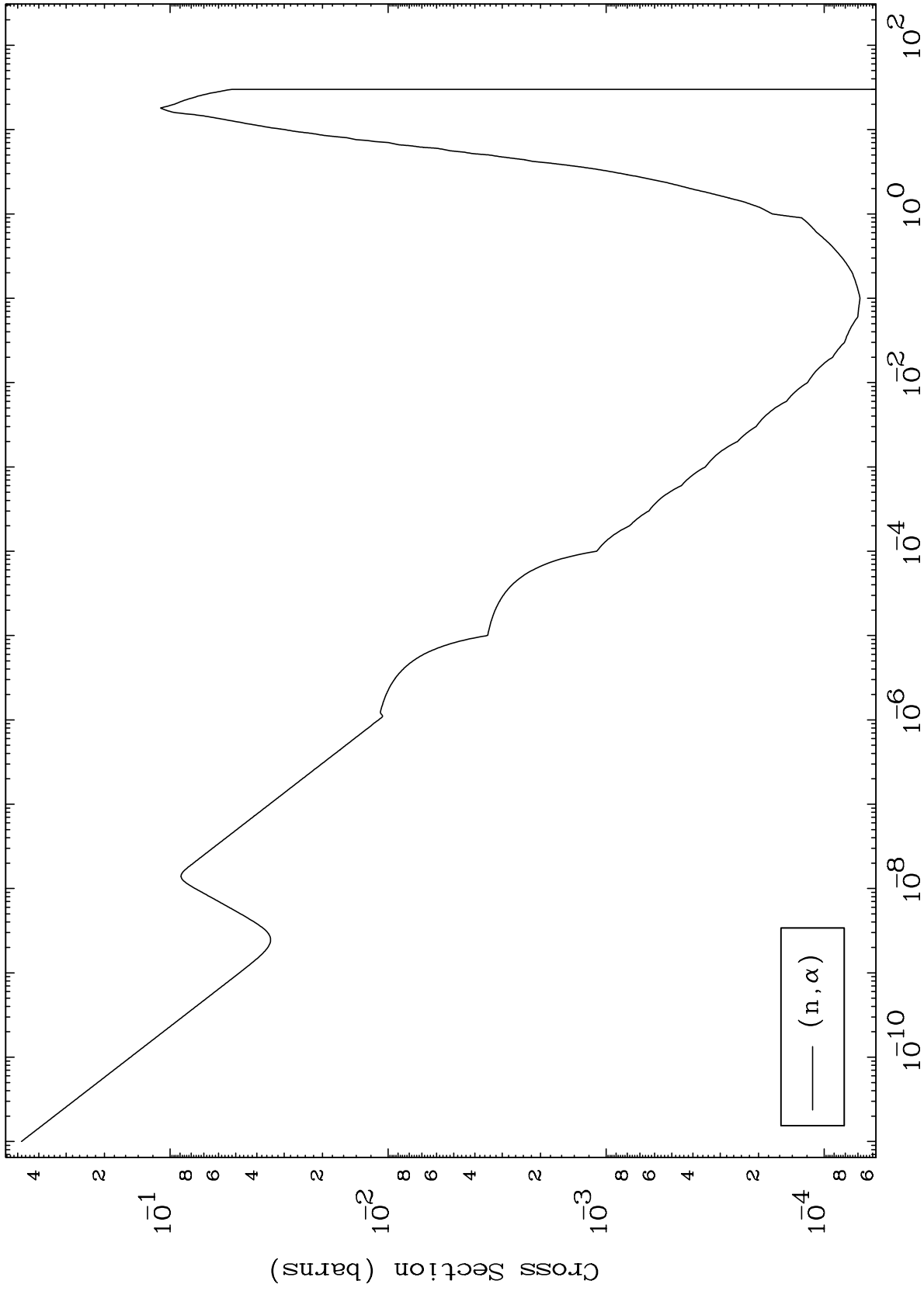
Incident Energy (MeV)

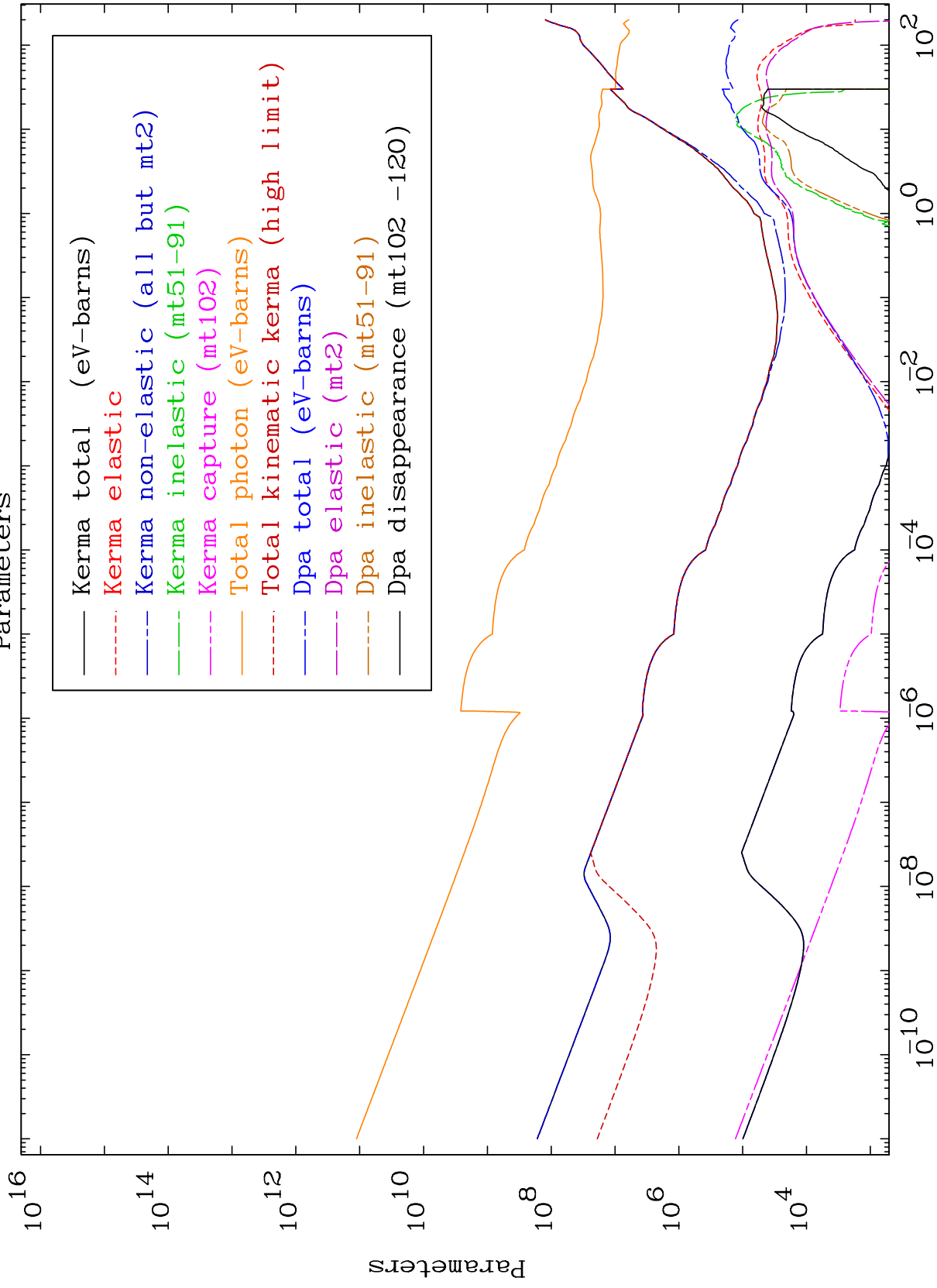
87-Fr-204

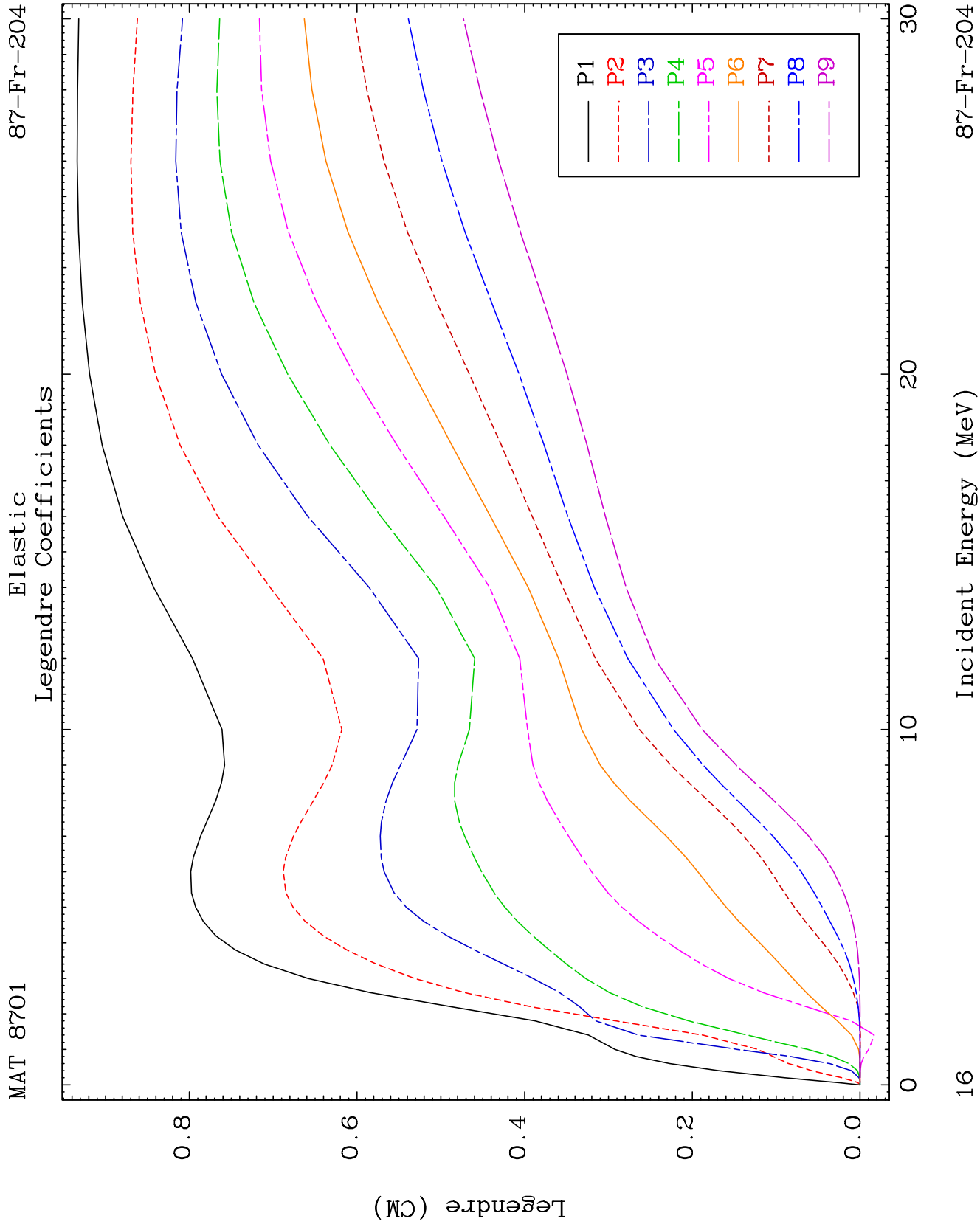
MAT 8701

(n,α) Levels
293 Kelvin Cross Sections

87-Fr-204



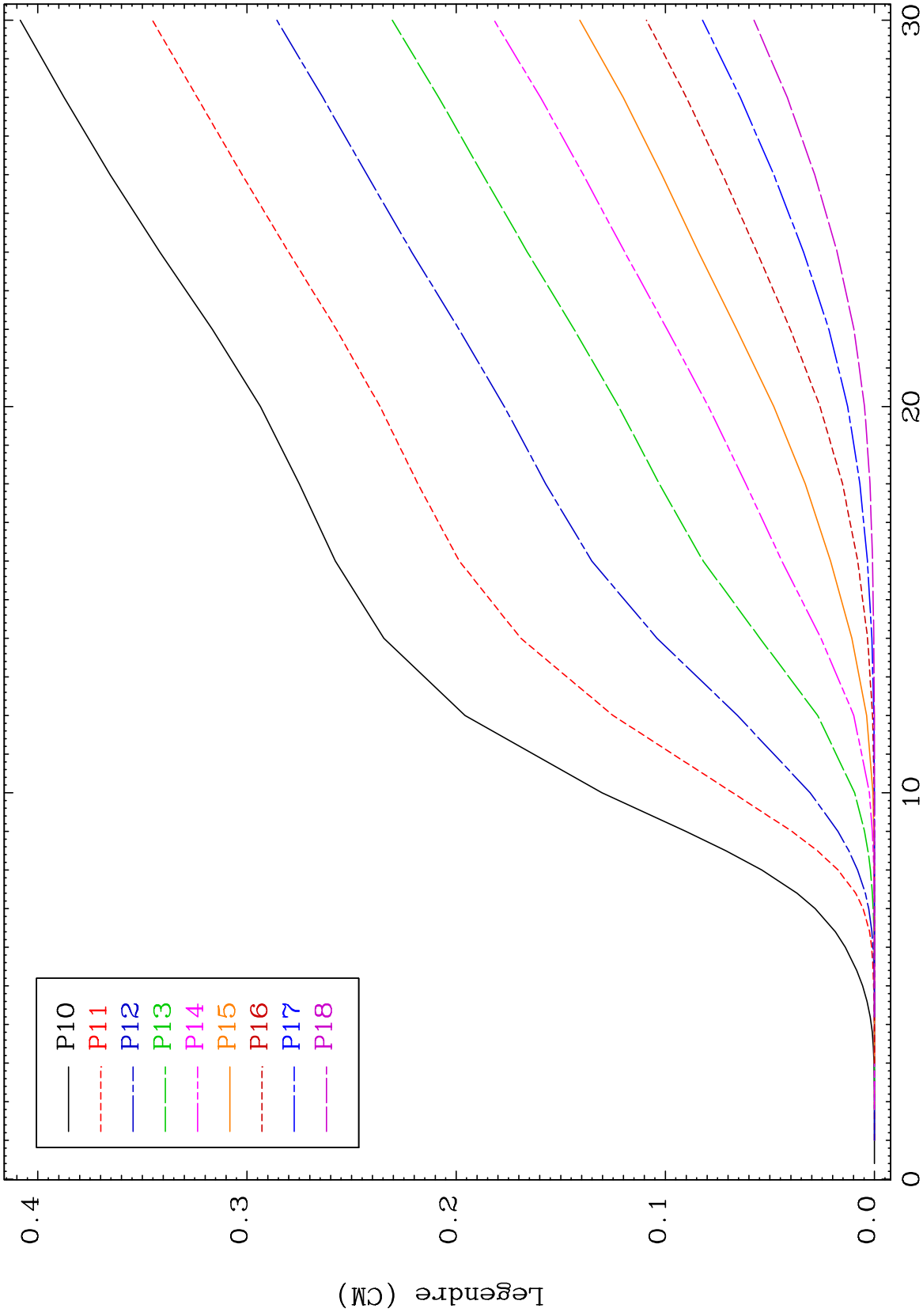




MAT 8701

Elastic Legendre Coefficients

⁸⁷Fr-204



17

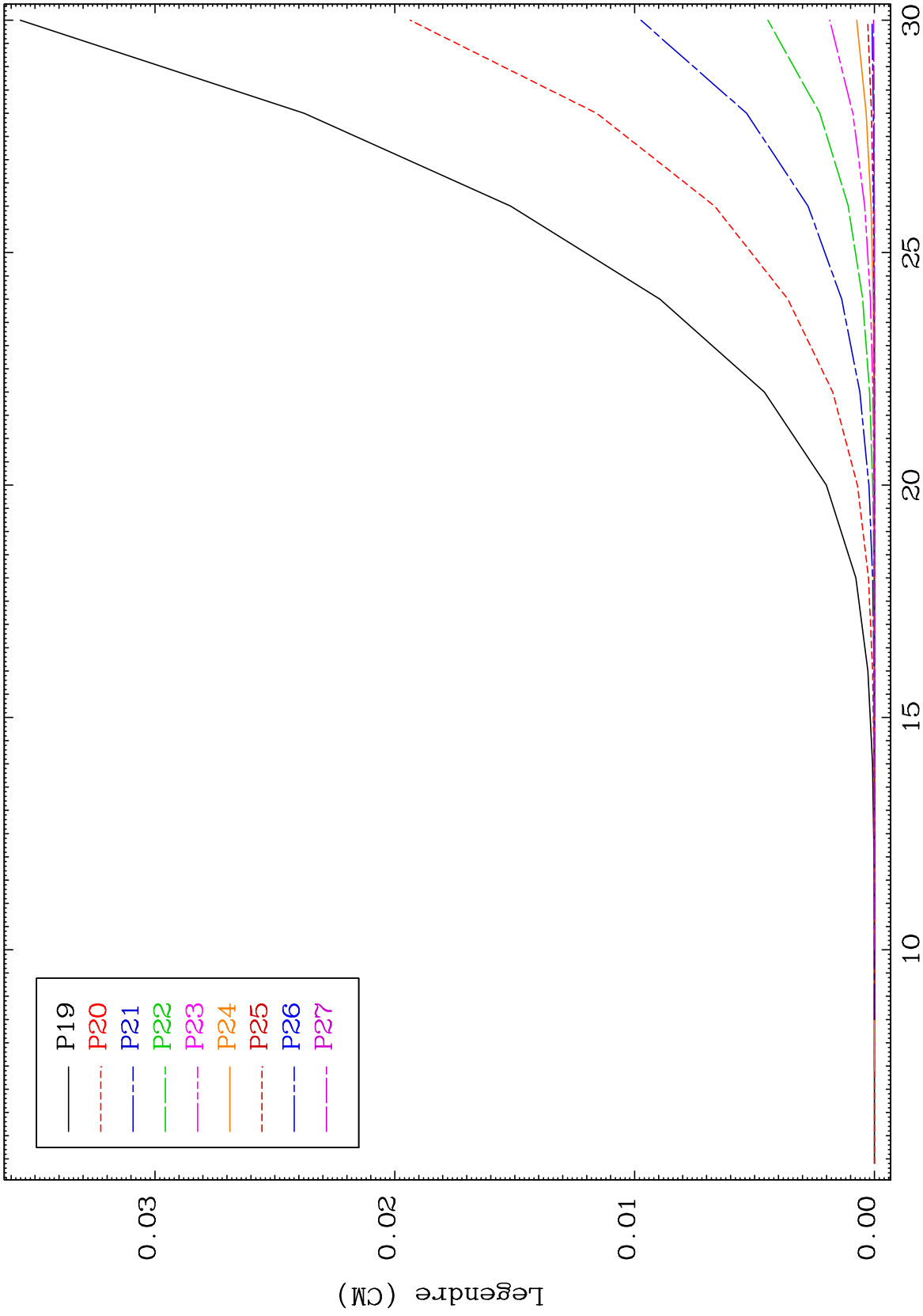
Incident Energy (MeV)

⁸⁷Fr-204

MAT 8701

Elastic Legendre Coefficients

87-Fr-204



18

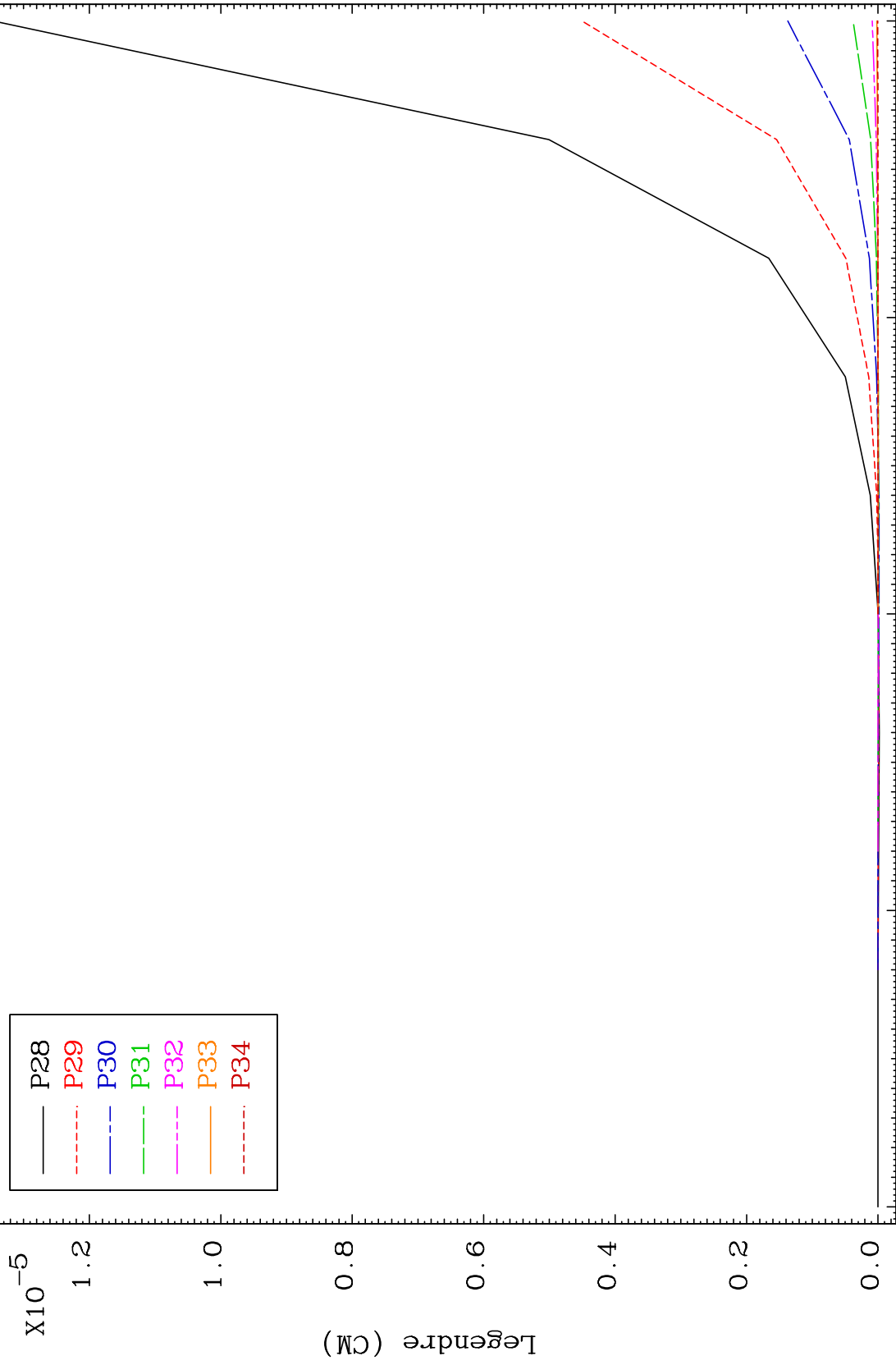
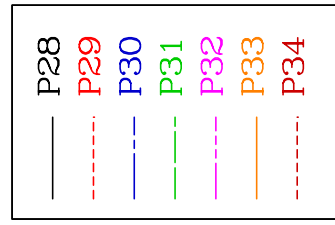
Incident Energy (MeV)

87-Fr-204

MAT 8701

Elastic Legendre Coefficients

87-Fr-204



19

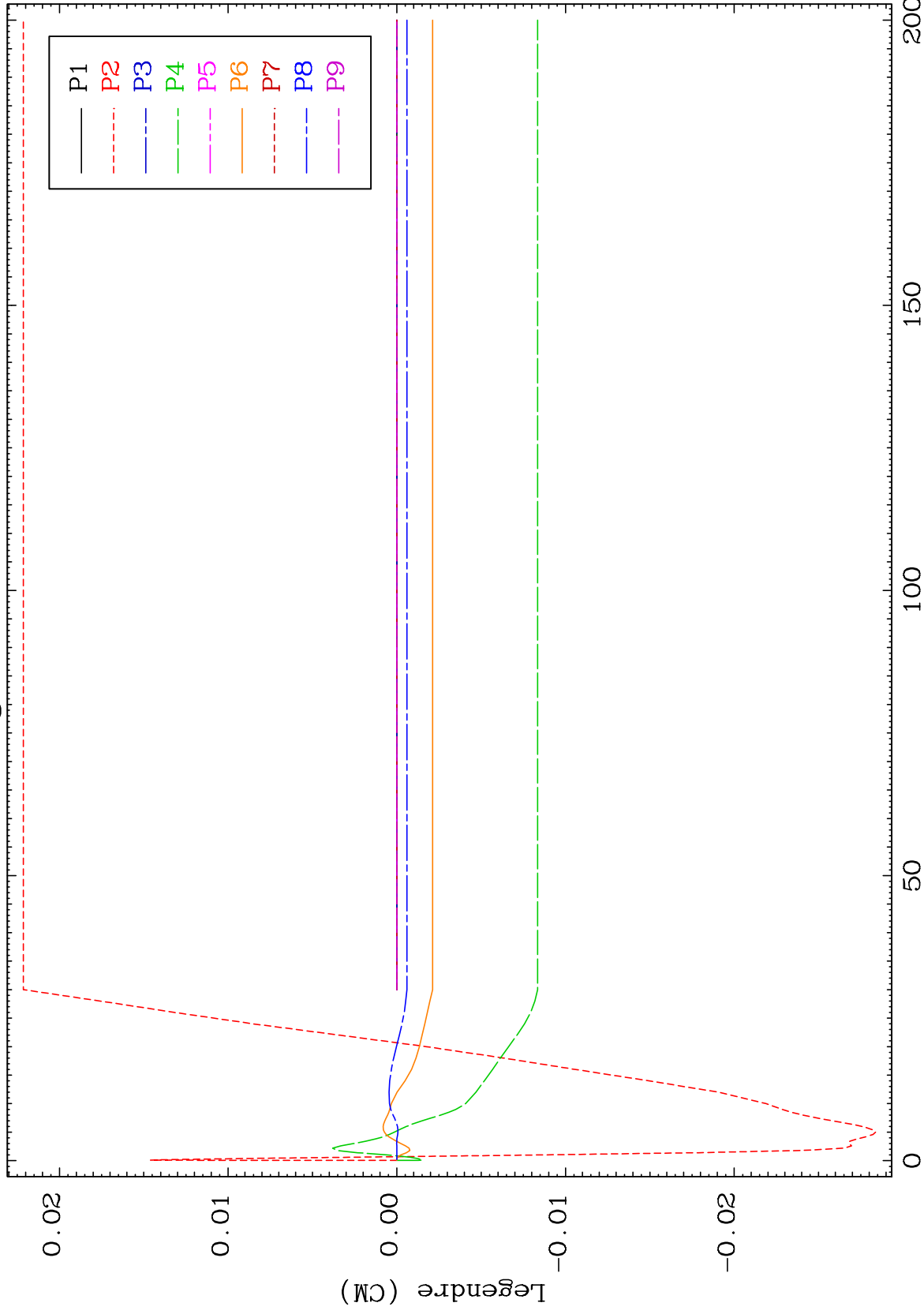
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



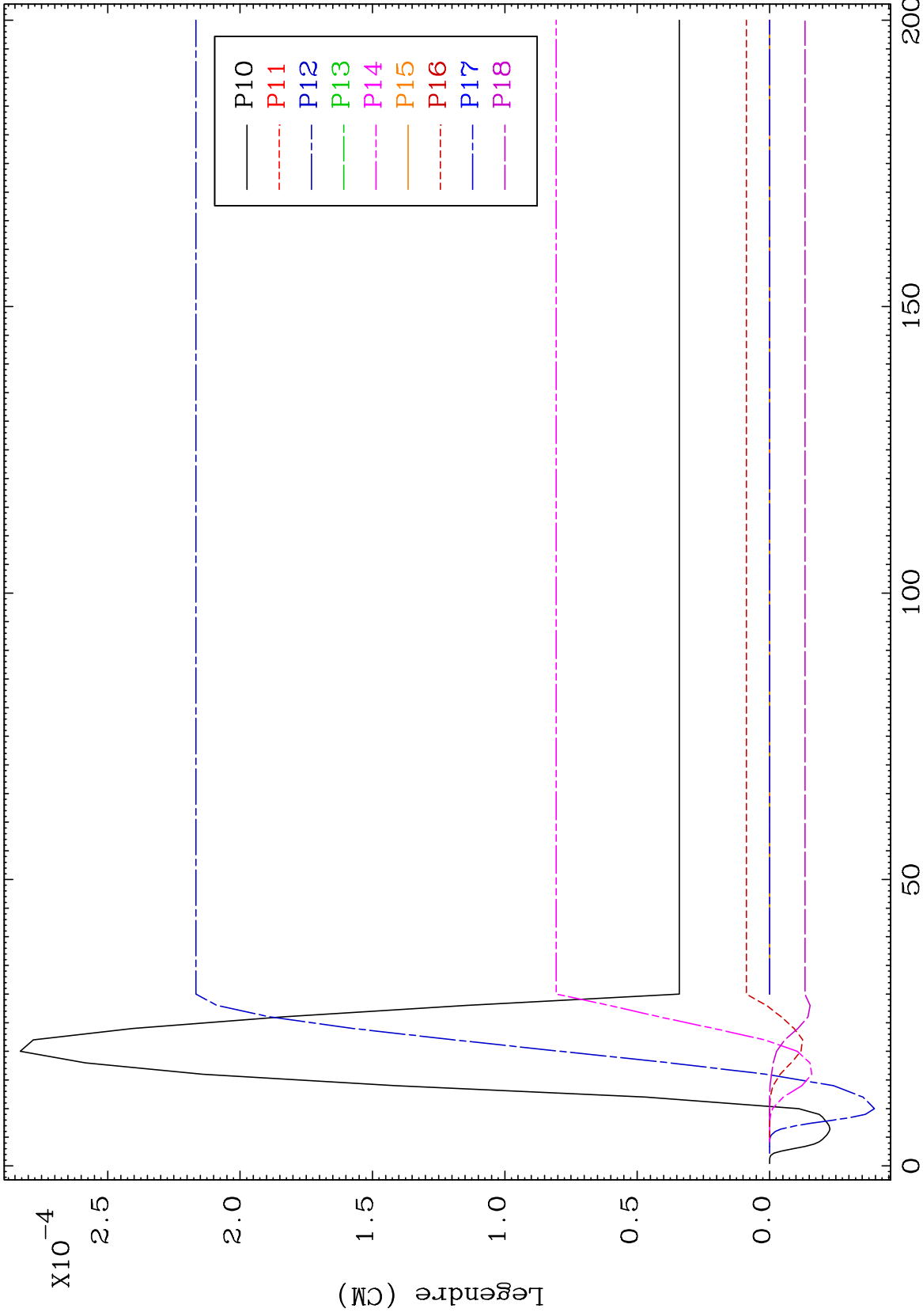
87-Fr-204

Incident Energy (MeV)

MAT 8701

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

87-Fr-204



21

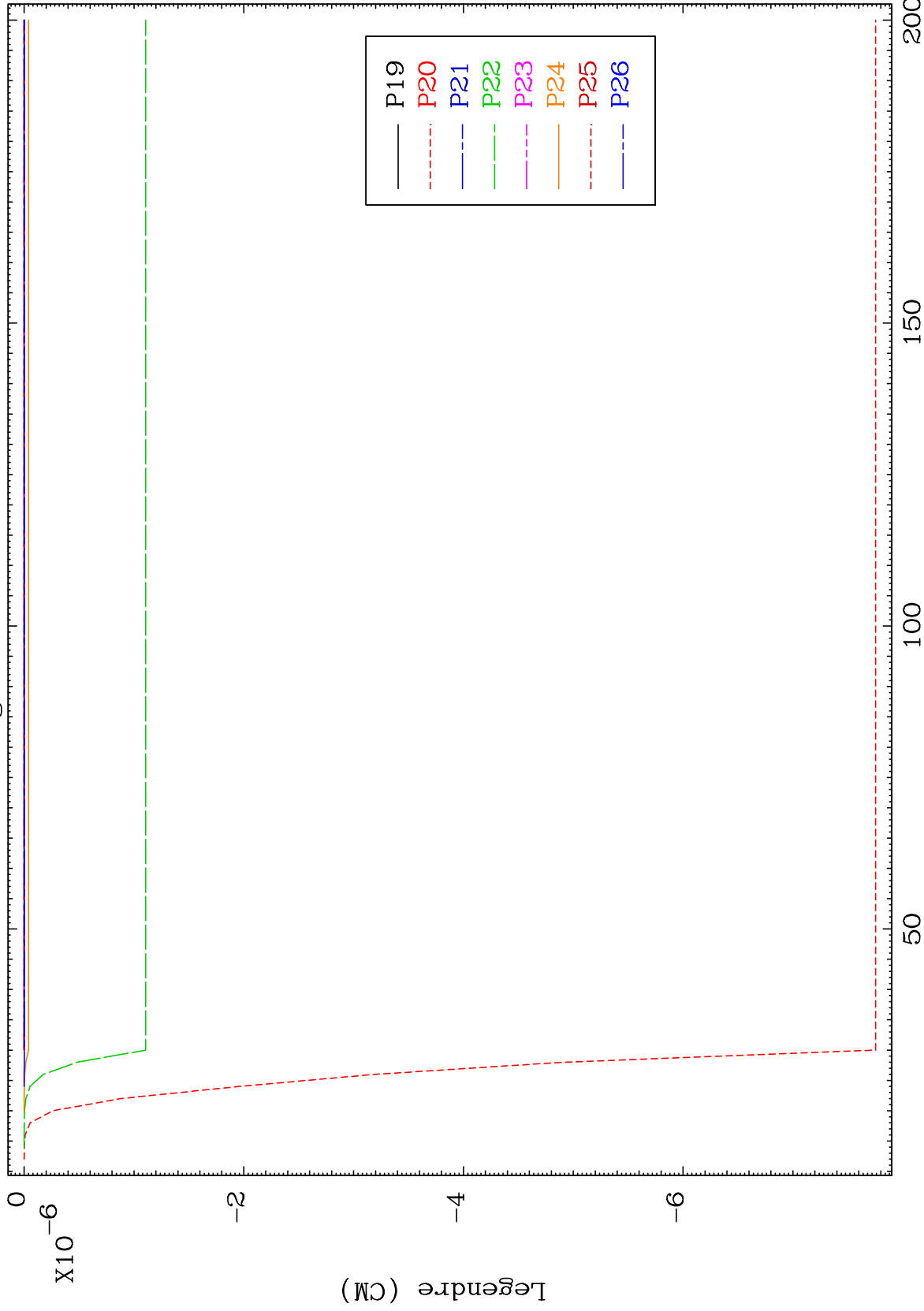
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

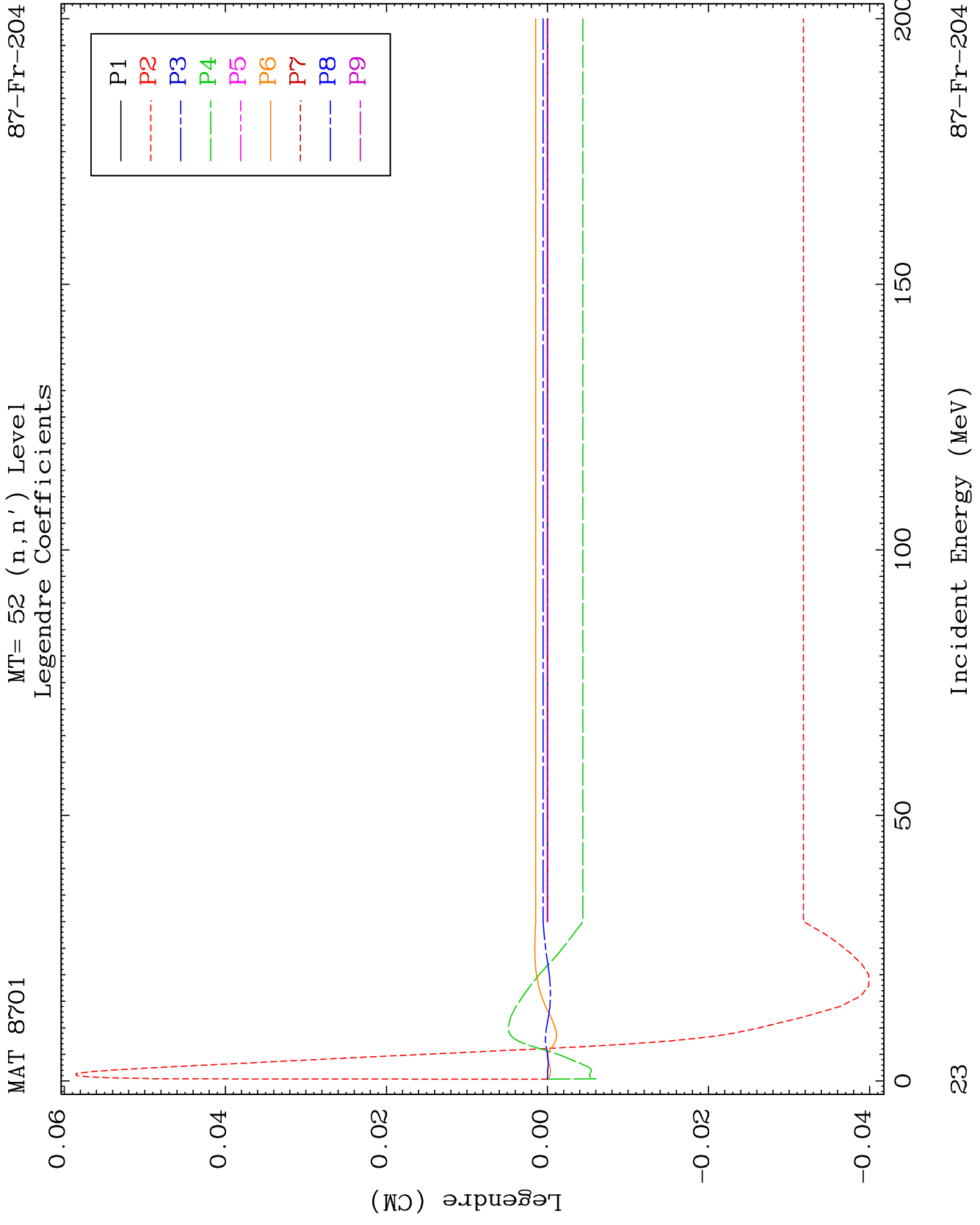
87-Fr-204



87-Fr-204

Incident Energy (MeV)

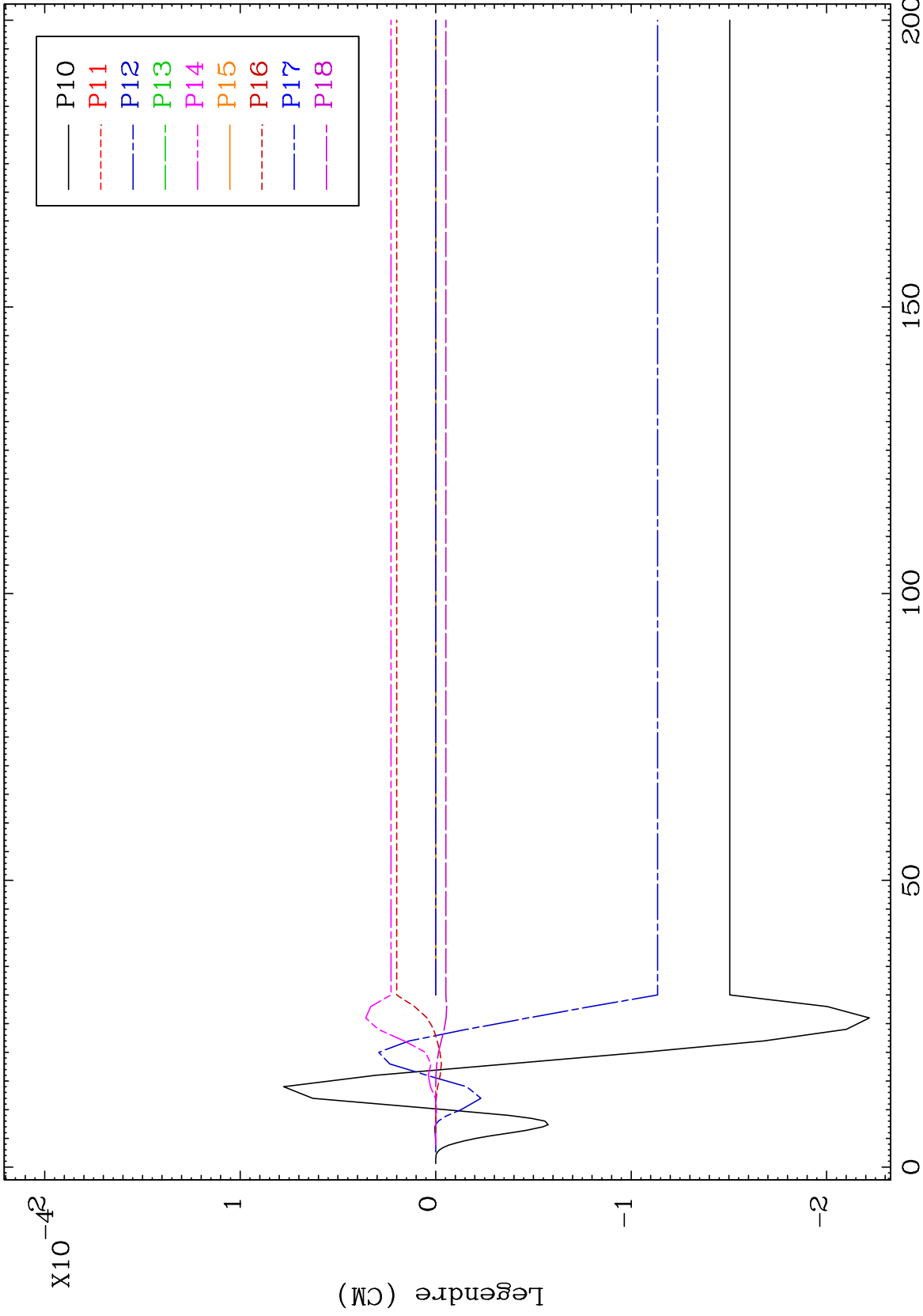
22



MAT 8701

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

87-Fr-204

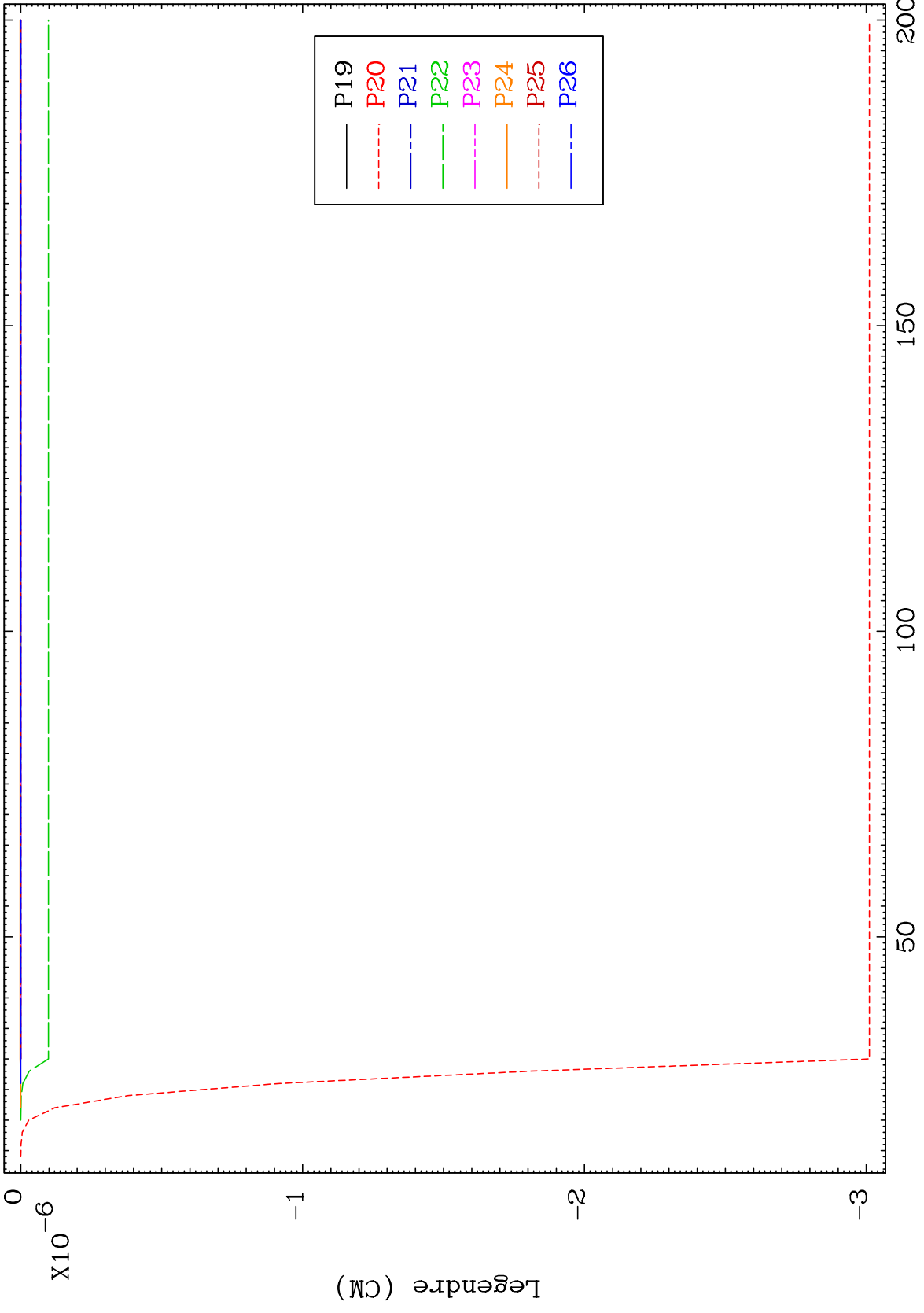


24

Incident Energy (MeV)

87-Fr-204

MAT 8701 MT= 52 (n,n') Level Legendre Coefficients 87-Fr-204

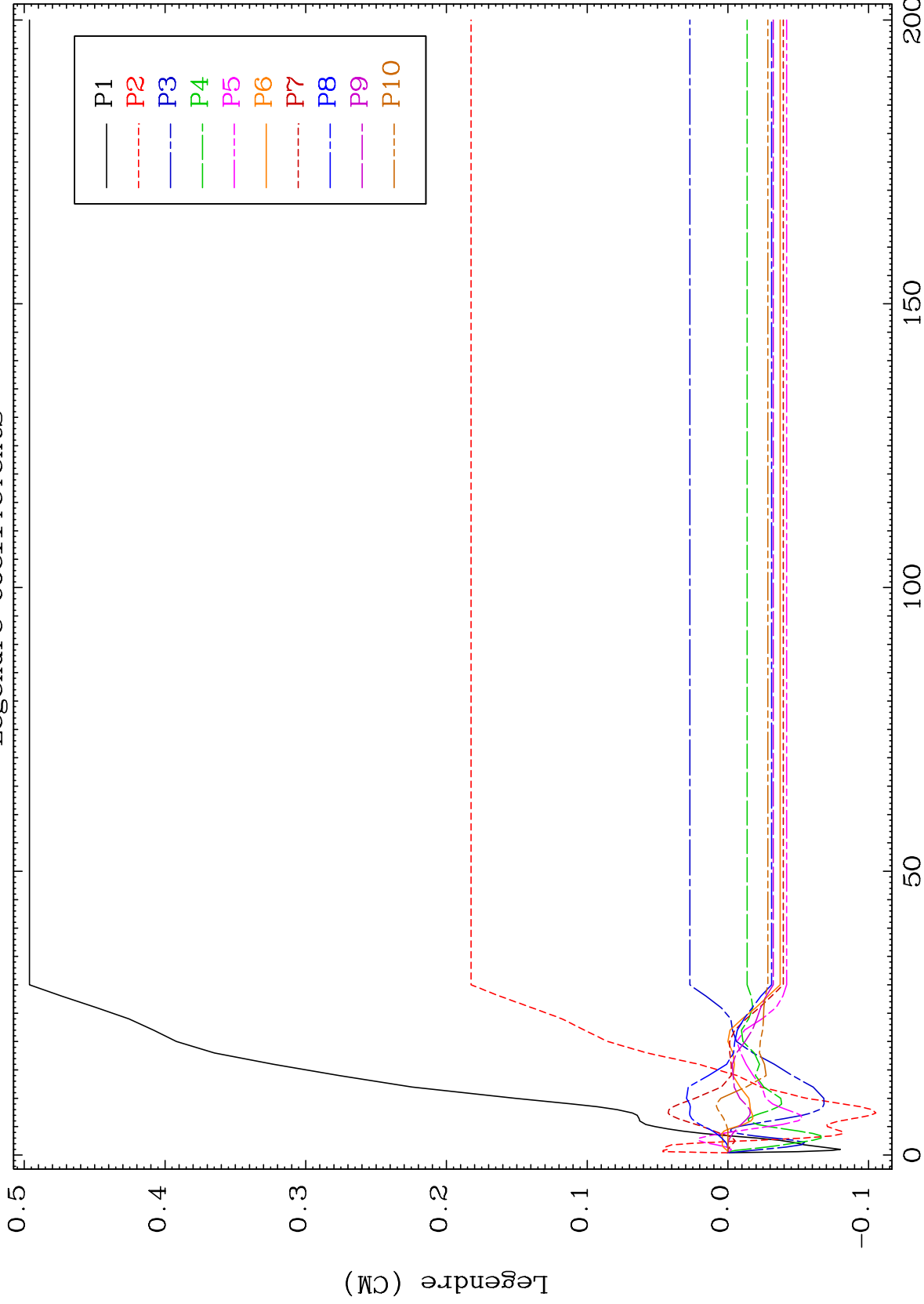


87-Fr-204

MAT 8701

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

87-Fr-204



26

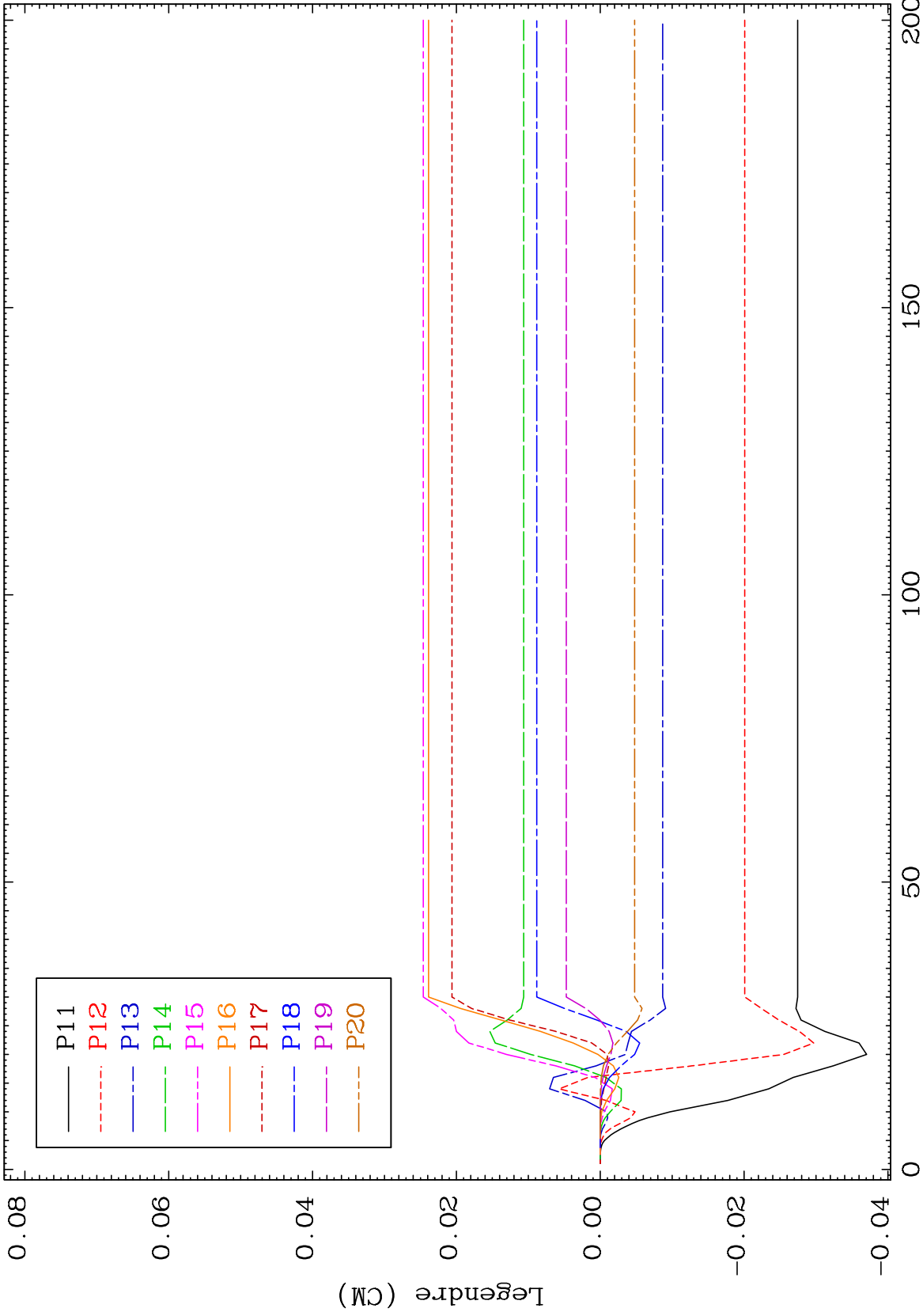
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



27

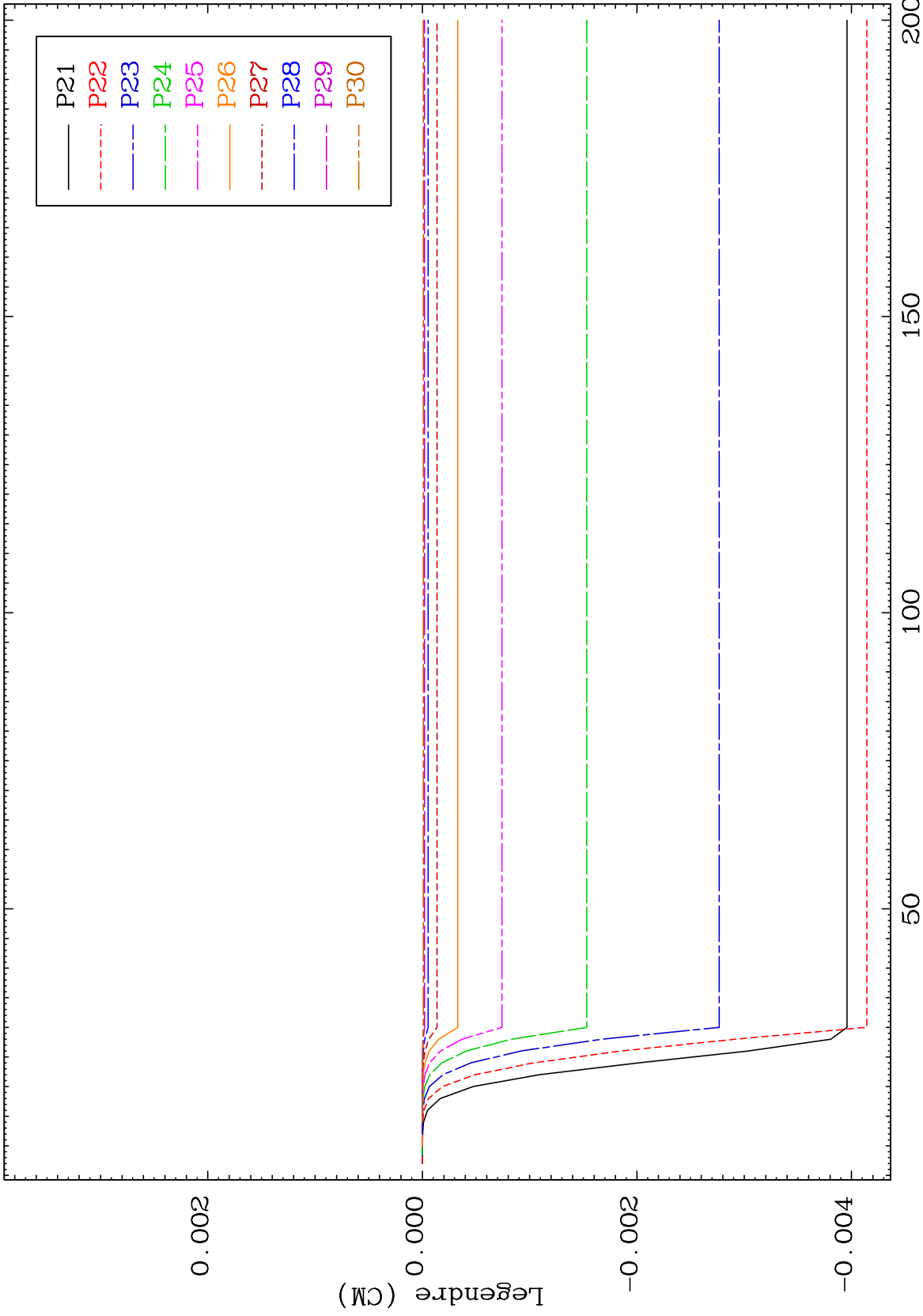
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



28

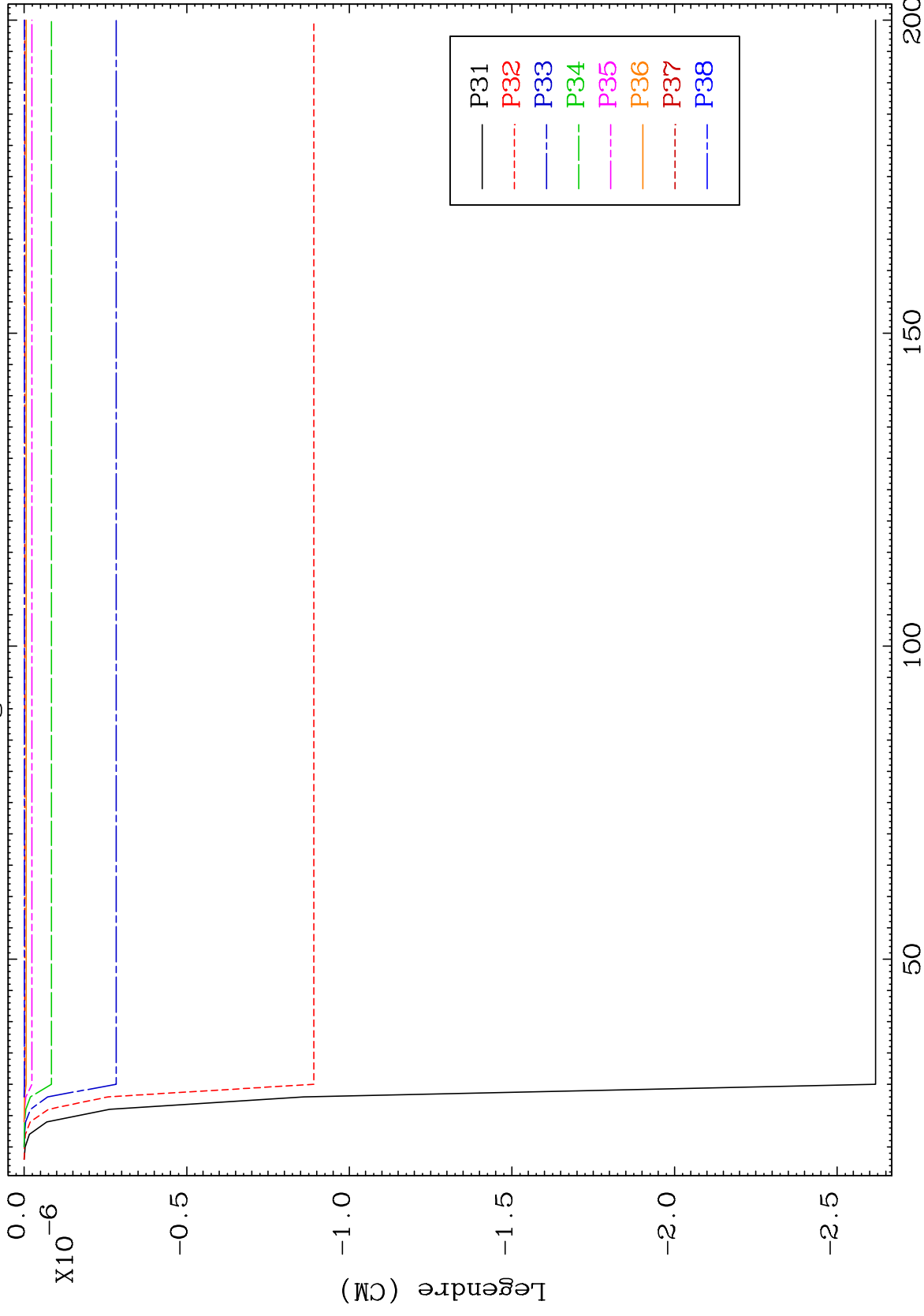
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



87-Fr-204

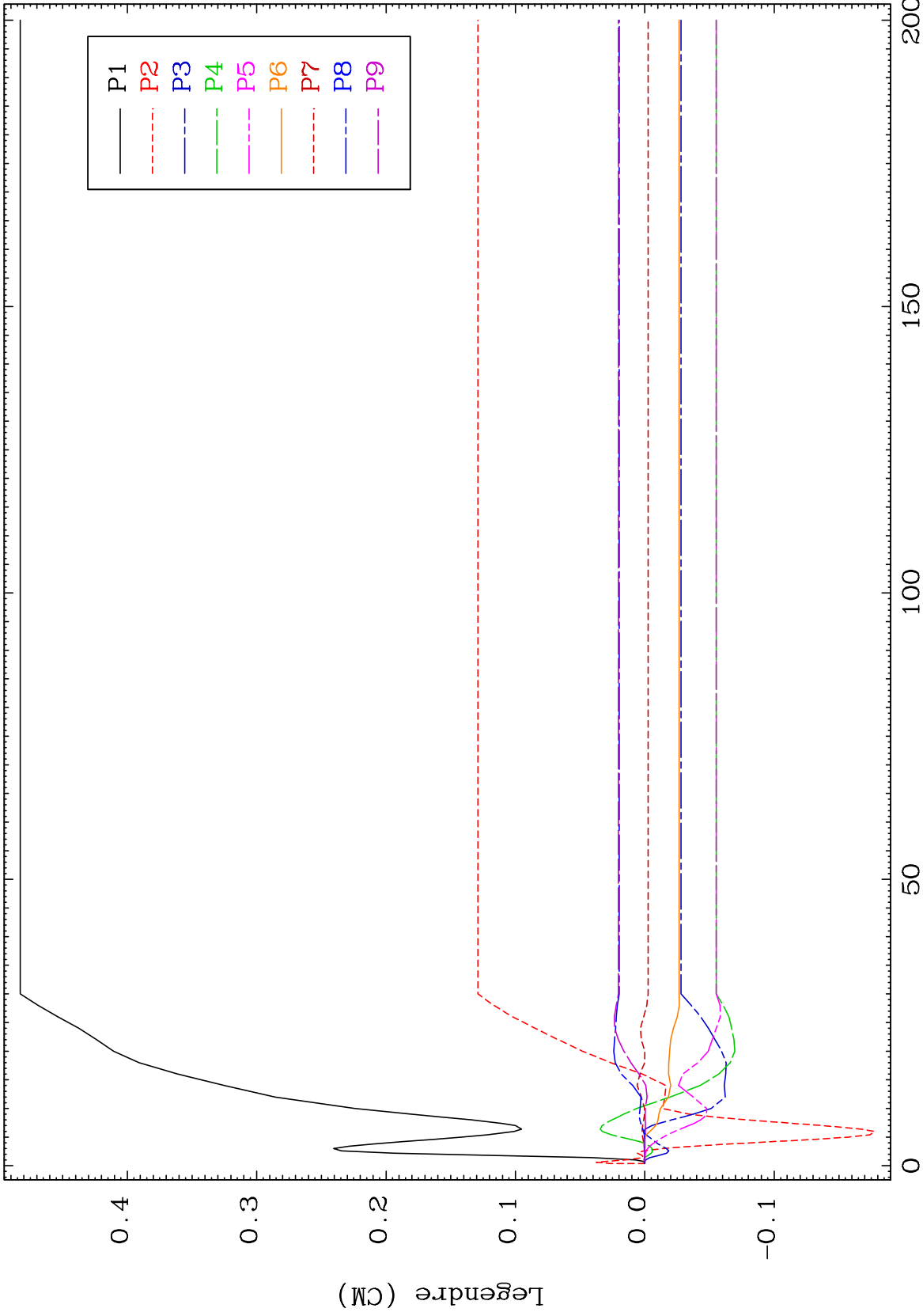
Incident Energy (MeV)

29

MAT 8701

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

87-Fr-204



87-Fr-204

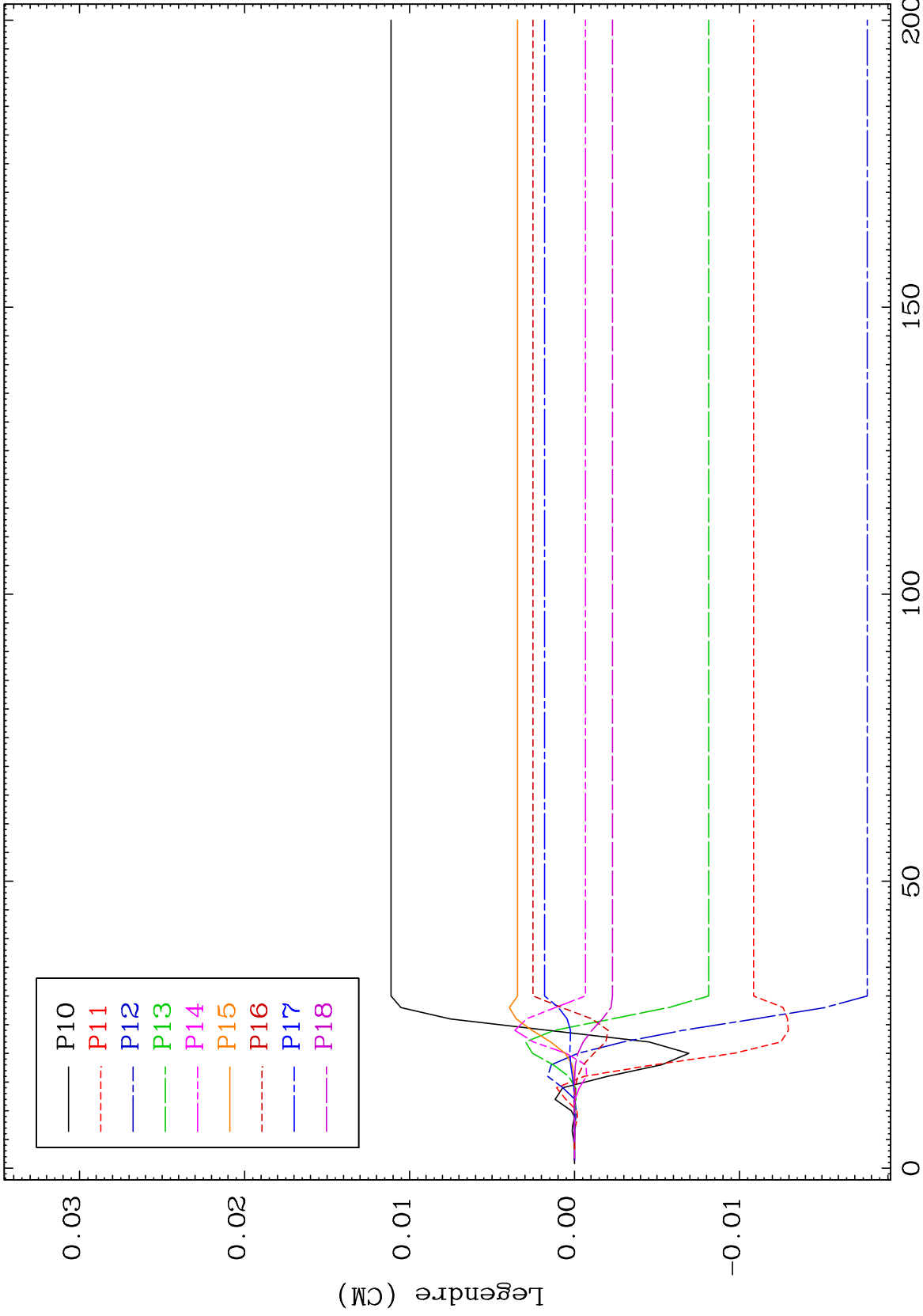
Incident Energy (MeV)

30

MAT 8701

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

87-Fr-204



31

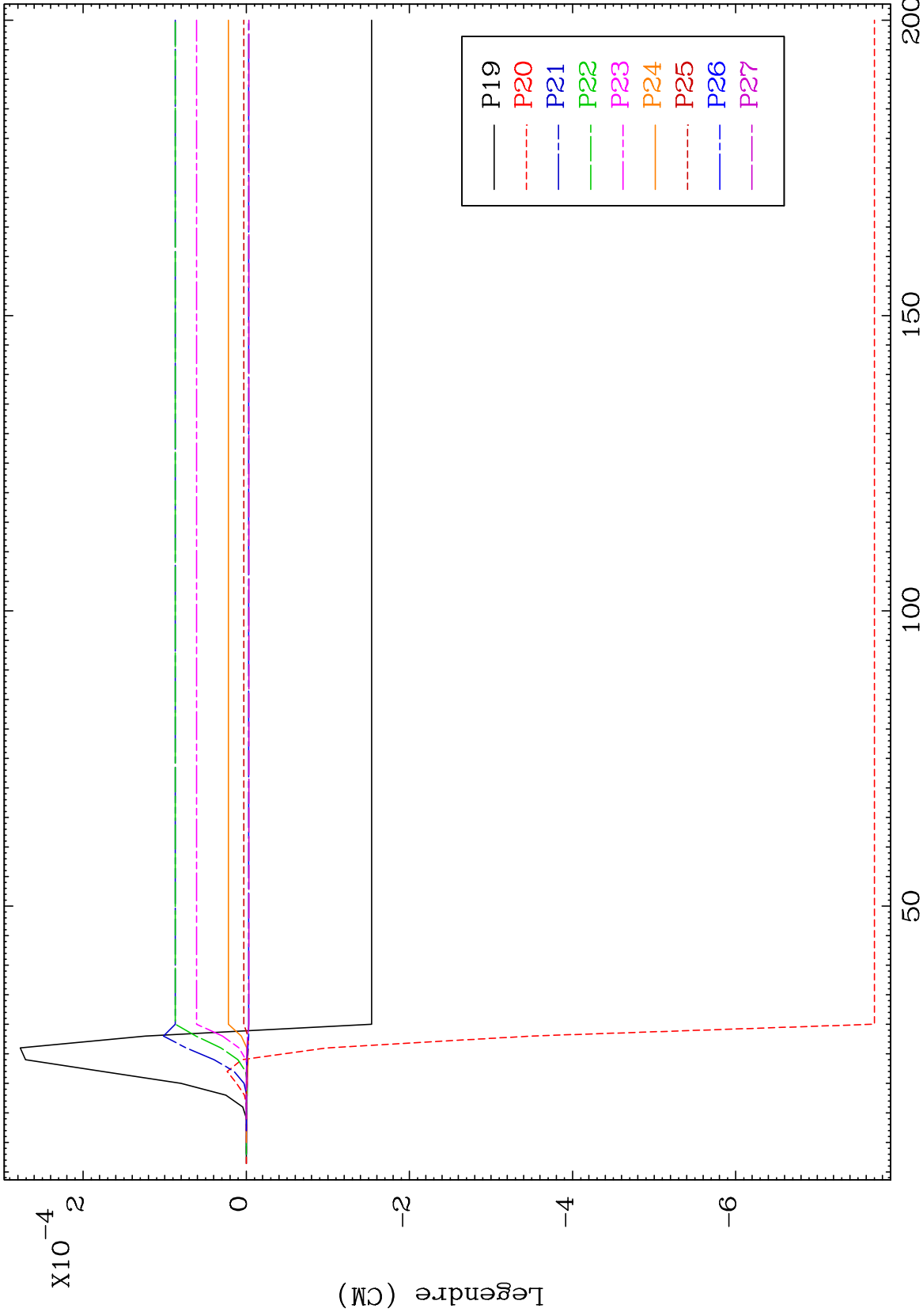
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



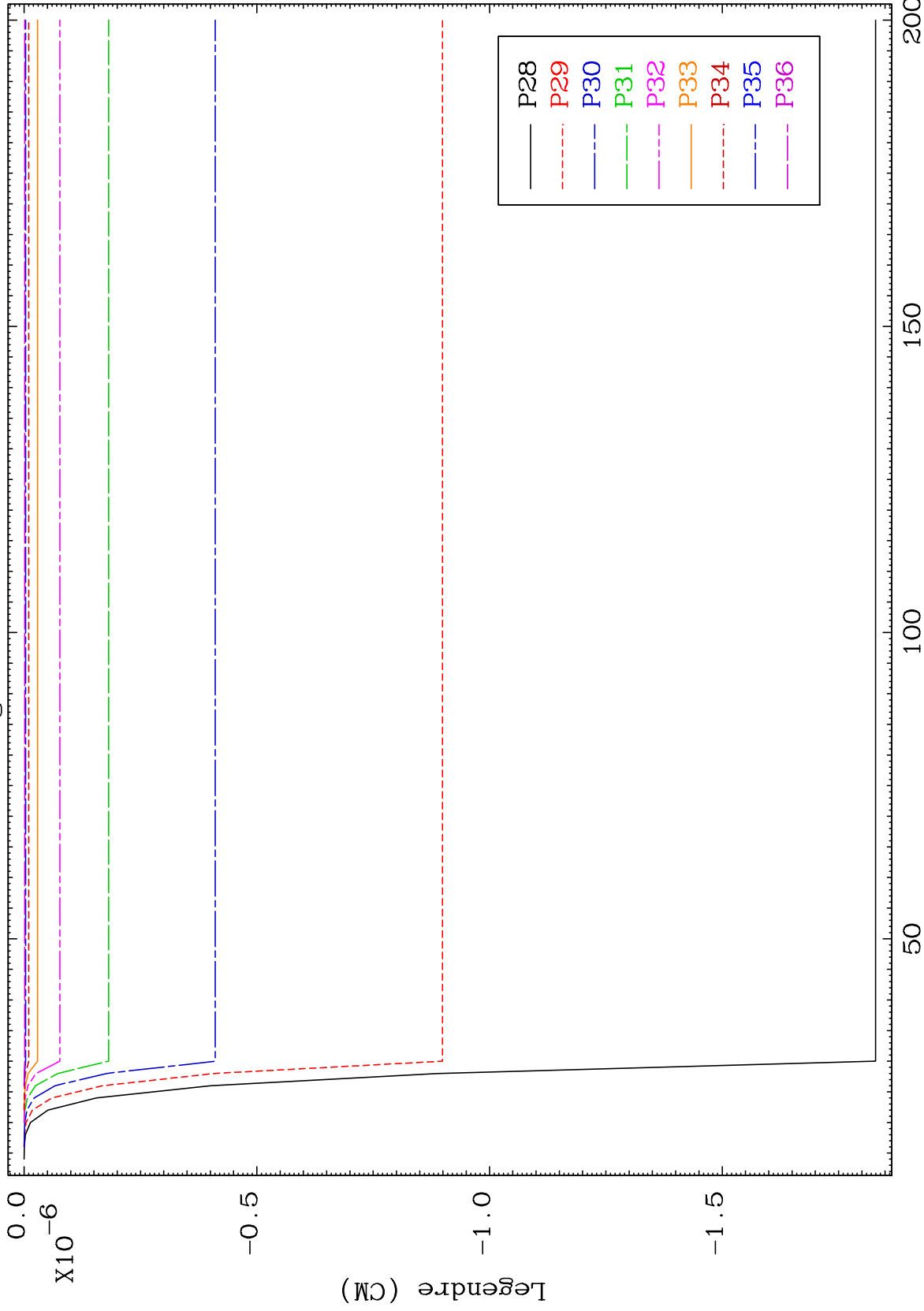
32

87-Fr-204

MAT 8701

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

87-Fr-204



87-Fr-204

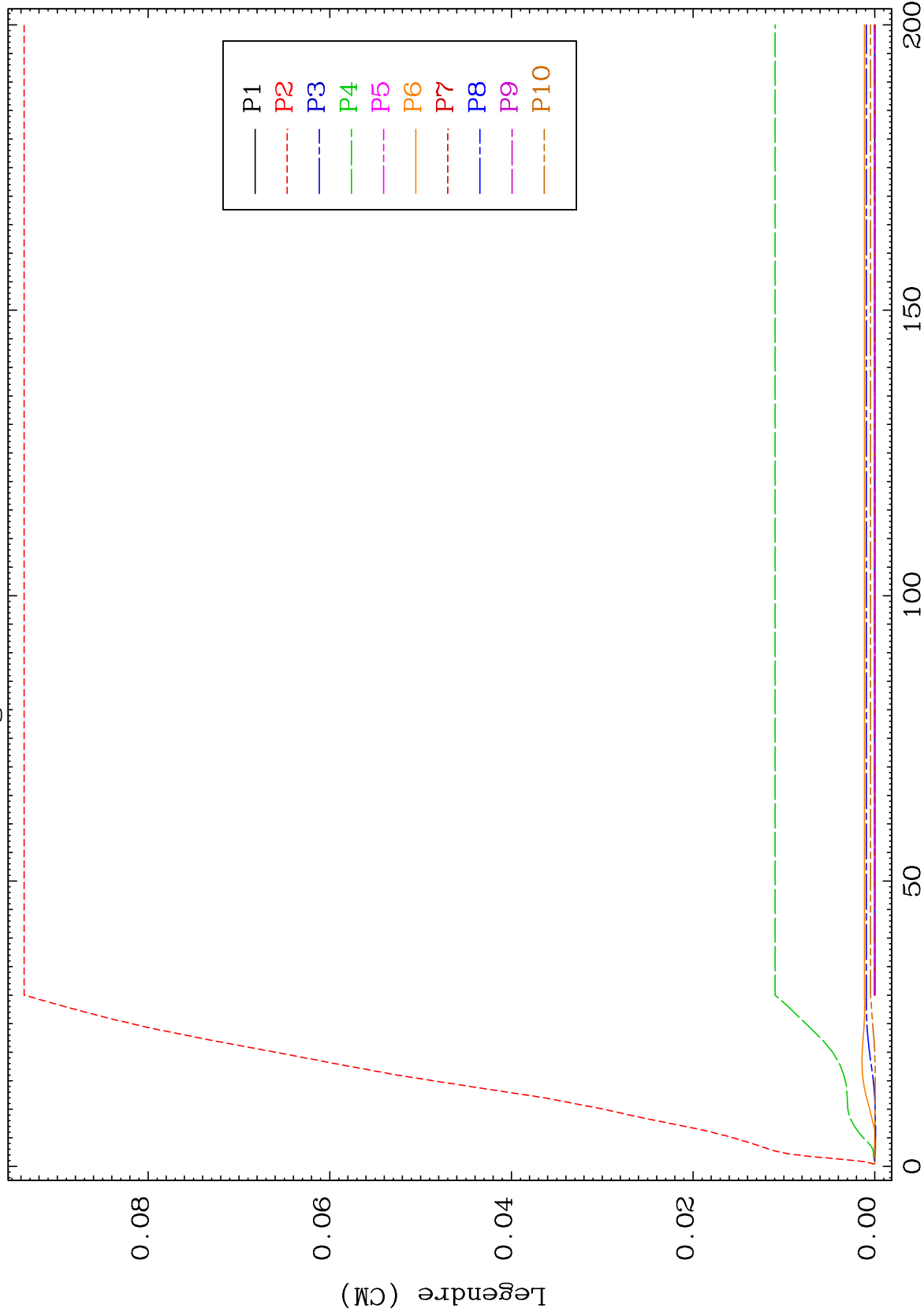
Incident Energy (MeV)

33

MAT 8701

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

87-Fr-204



34

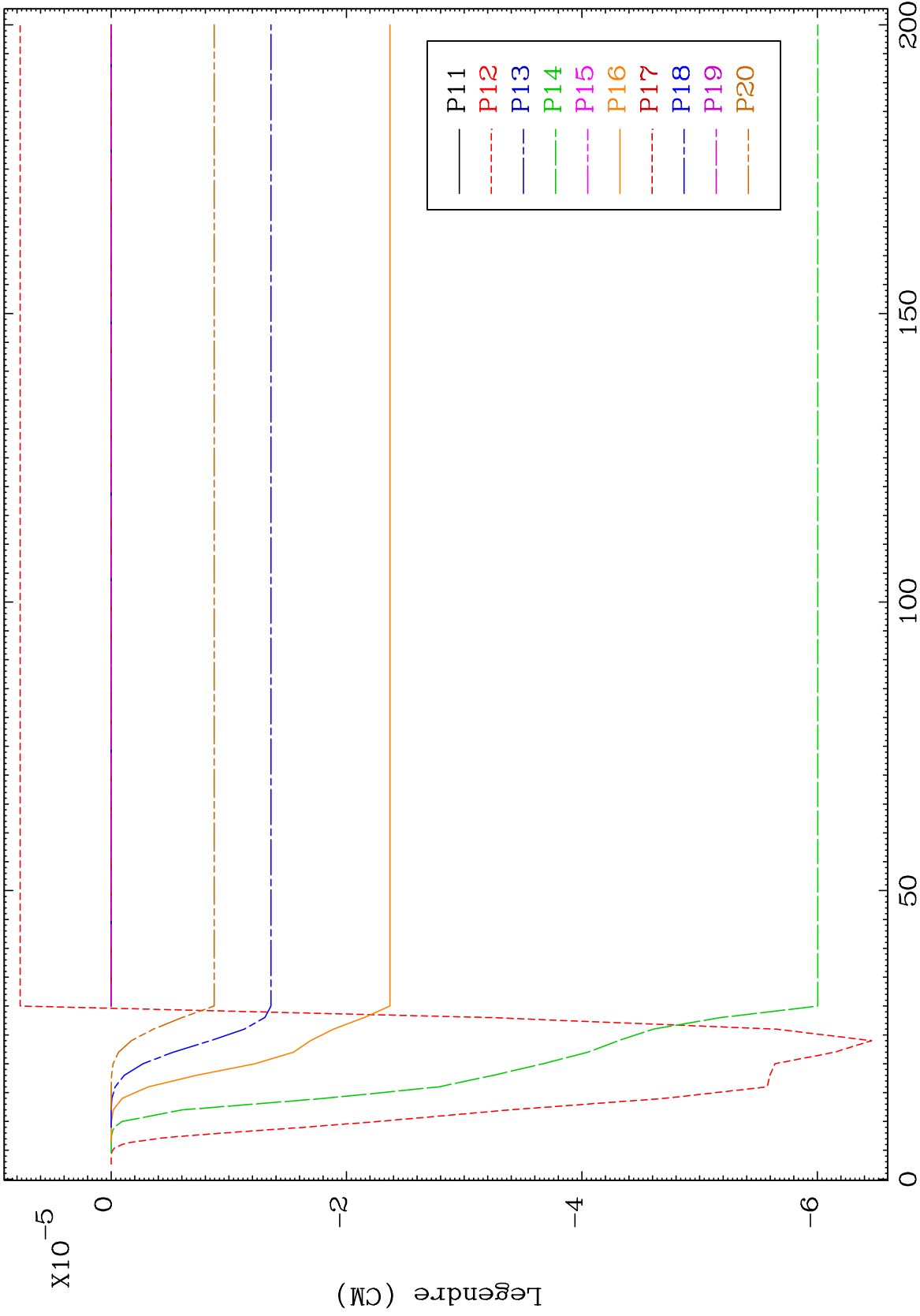
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



35

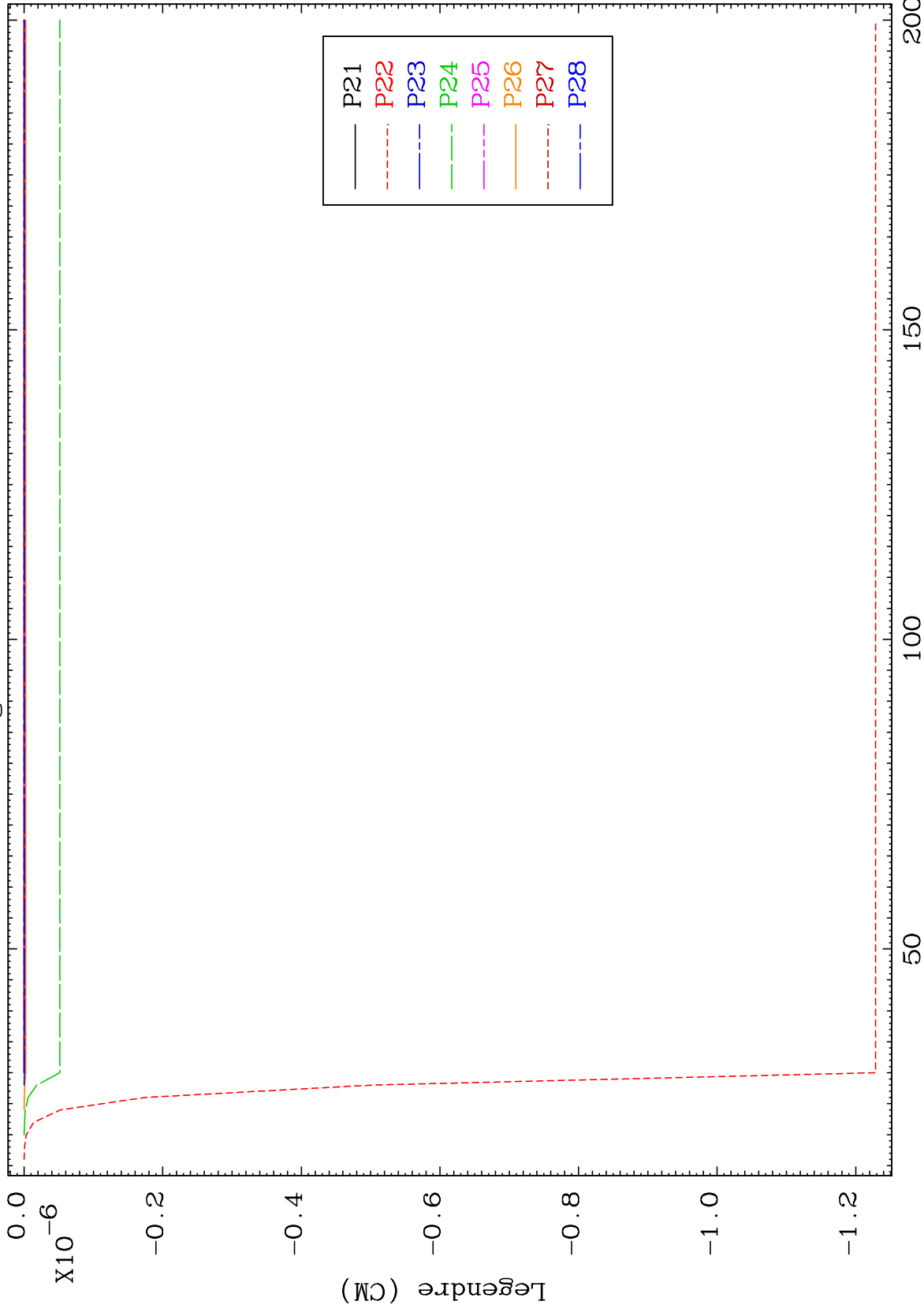
87-Fr-204

87-Fr-204

MAT 8701

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

87-Fr-204



87-Fr-204

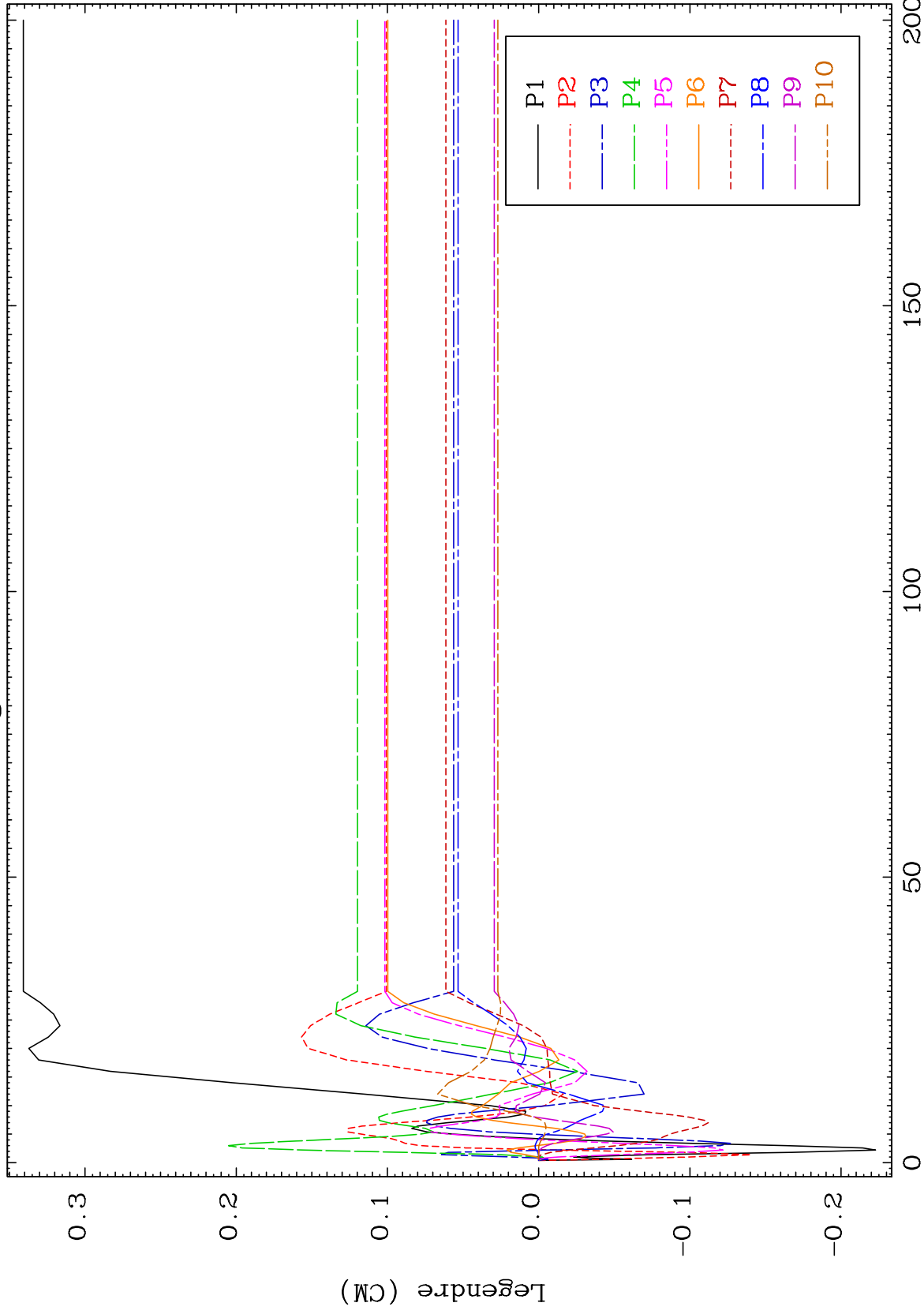
Incident Energy (MeV)

36

MAT 8701

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

87-Fr-204

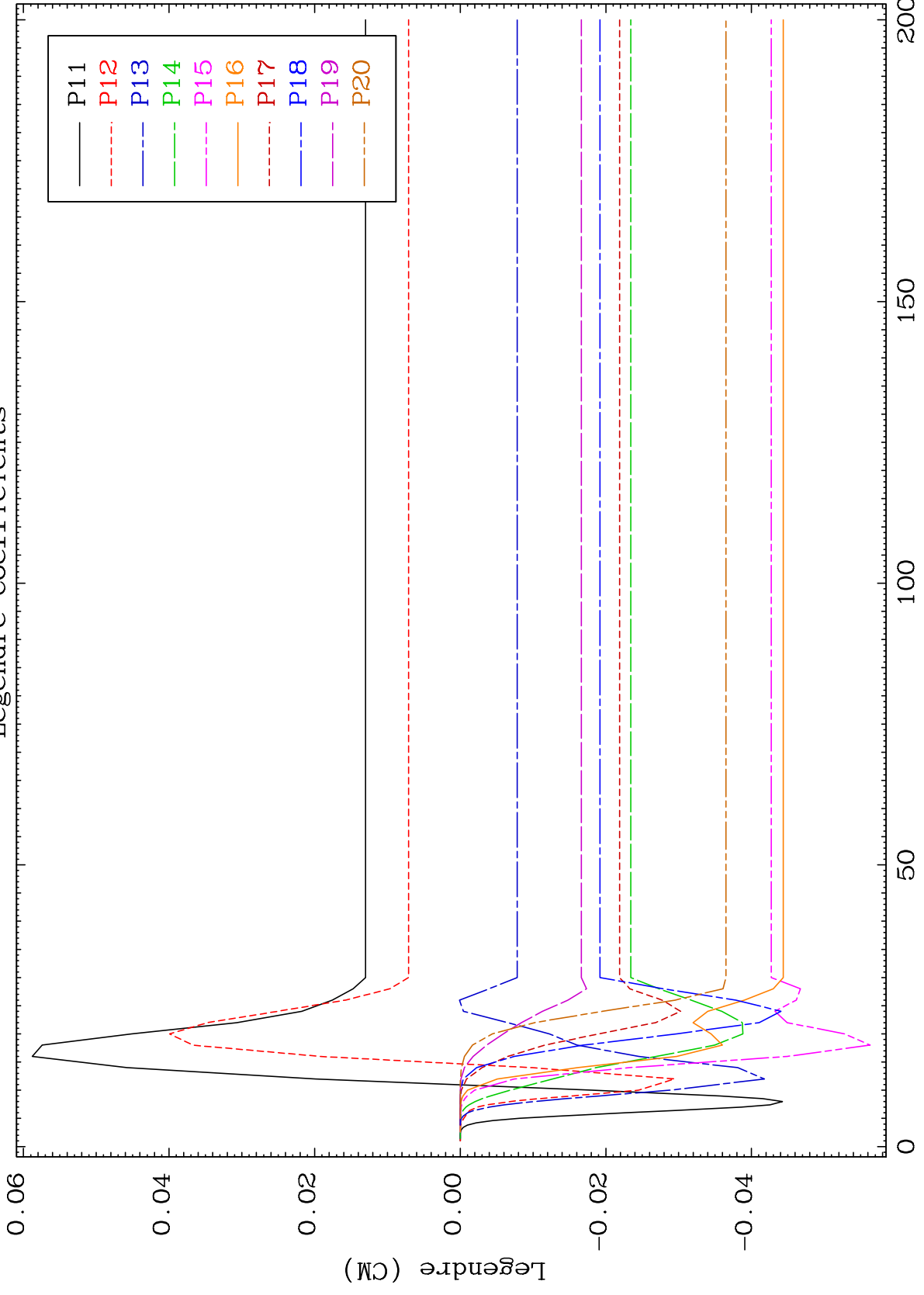


37

Incident Energy (MeV)

87-Fr-204

MAT 8701 MT= 56 (n,n') Level Legendre Coefficients 87-Fr-204

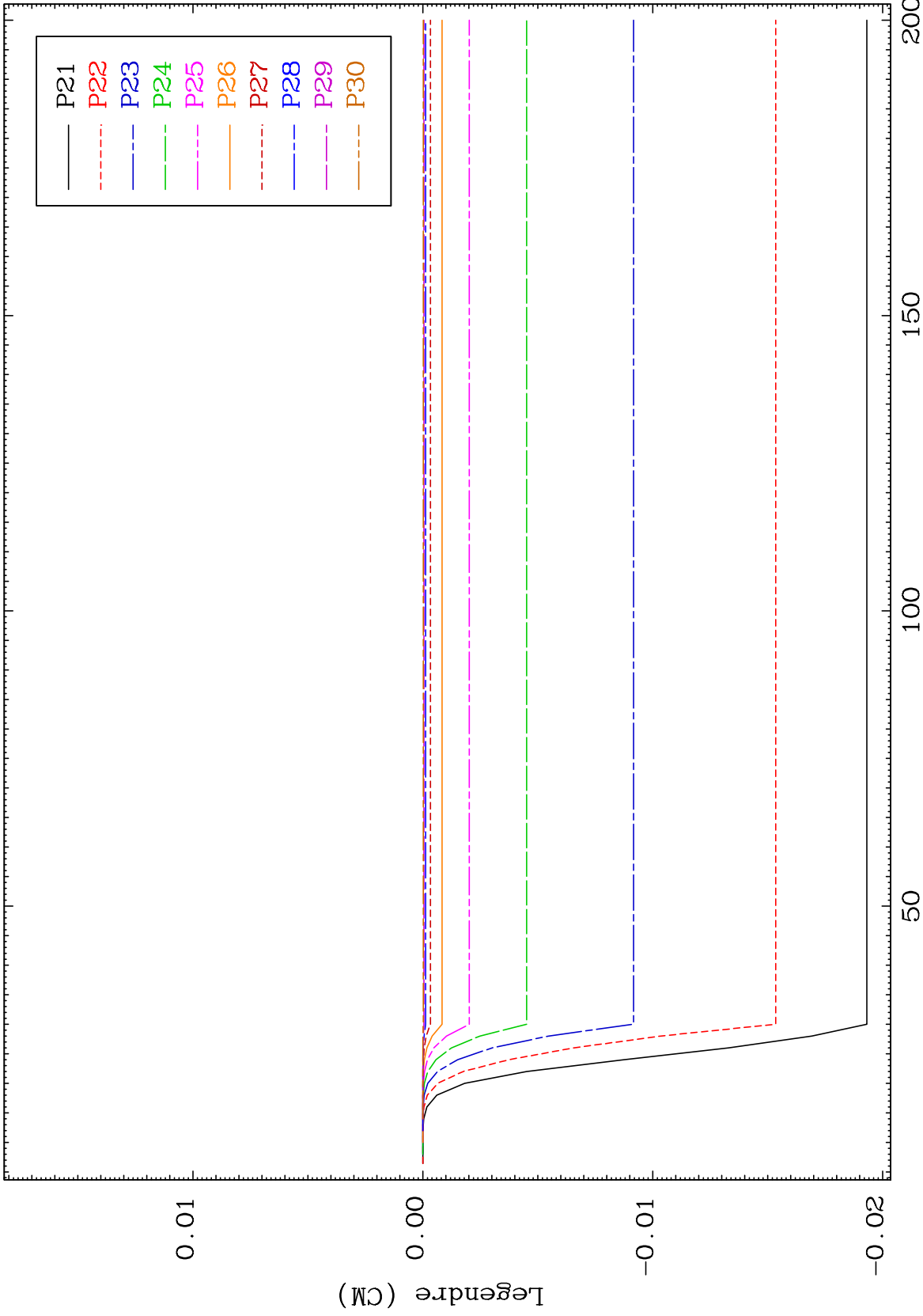


38 87-Fr-204

MAT 8701

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

87-Fr-204



39

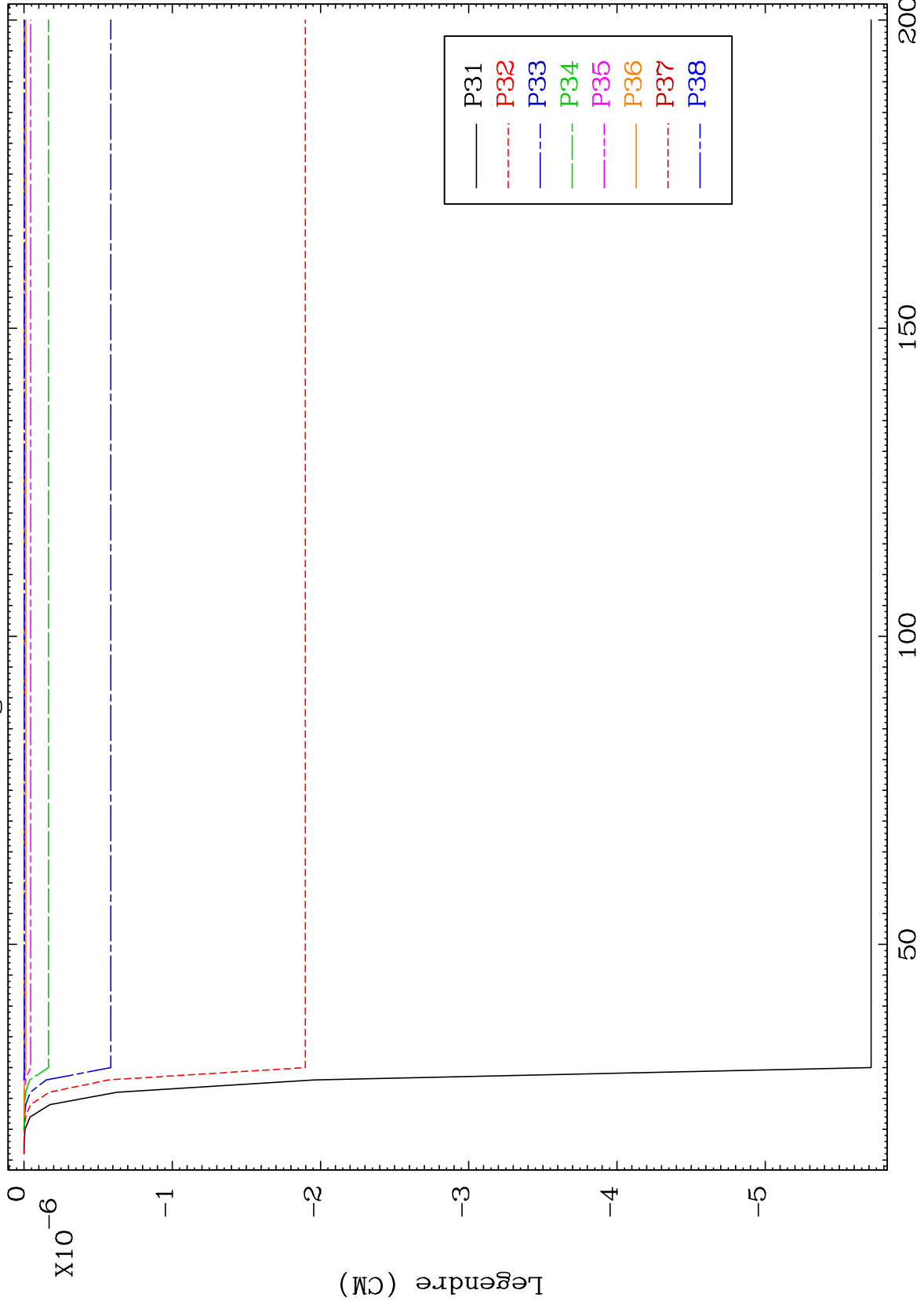
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



87-Fr-204

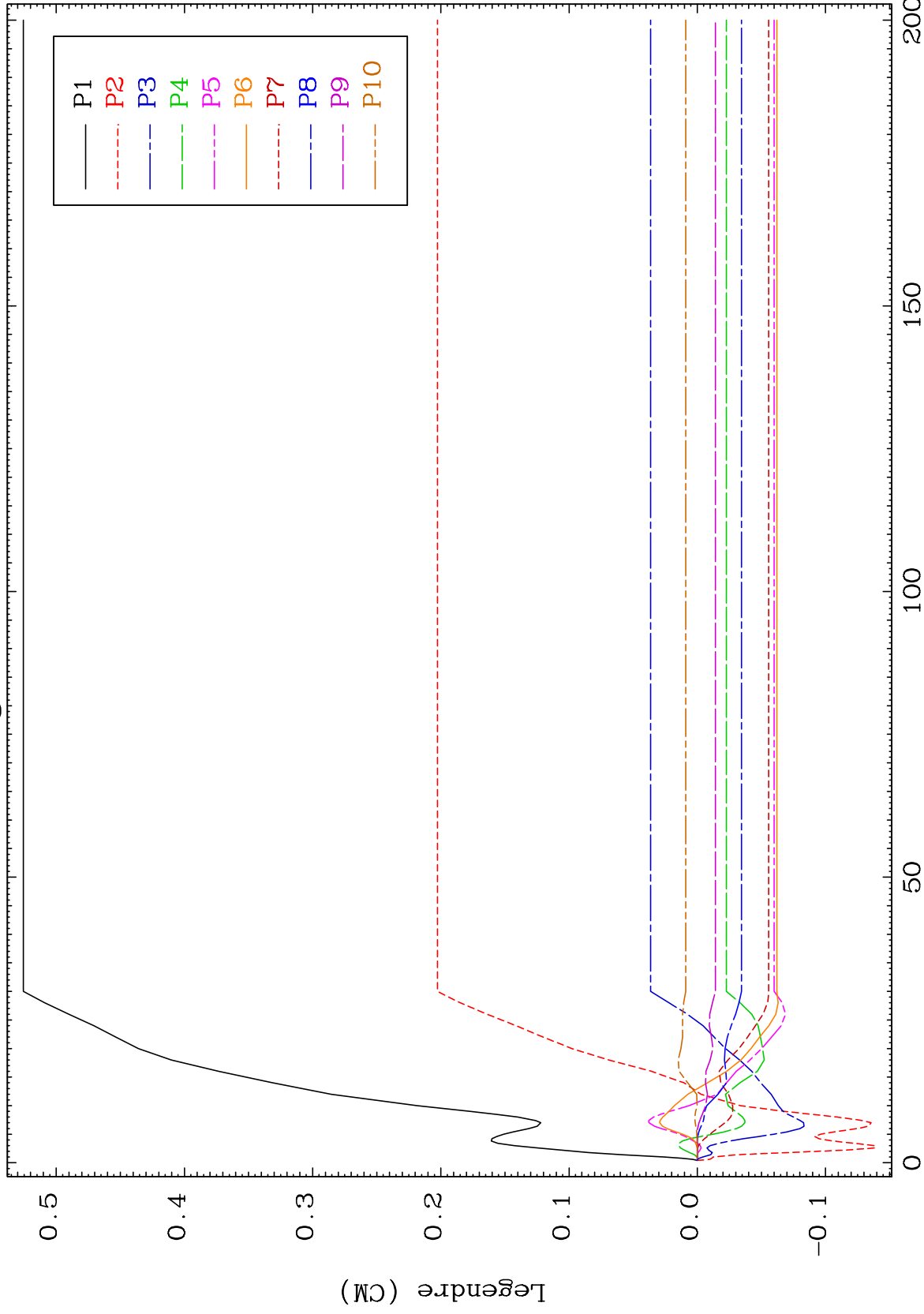
Incident Energy (MeV)

40

MAT 8701

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

87-Fr-204



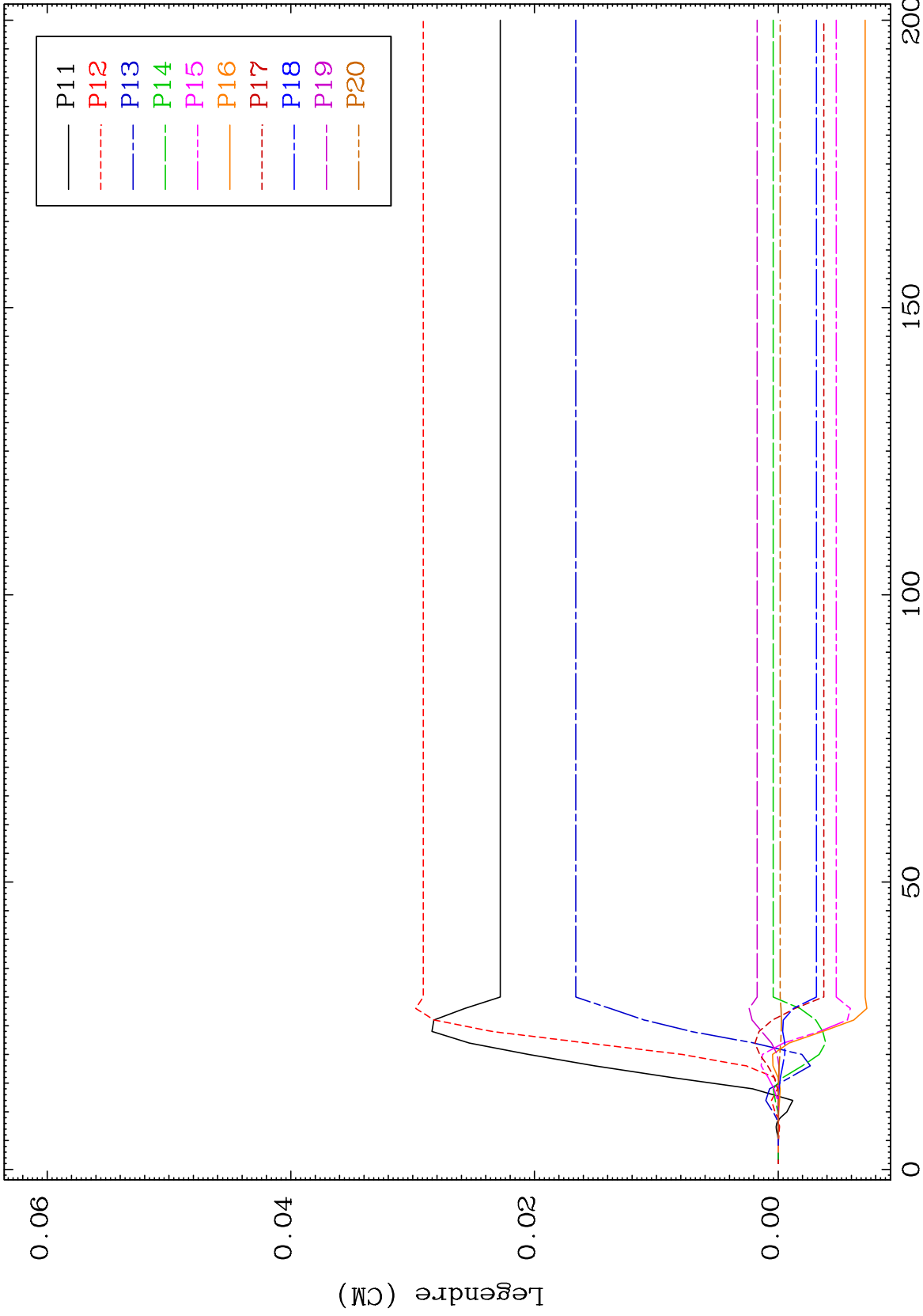
41

87-Fr-204

MAT 8701

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

87-Fr-204



42

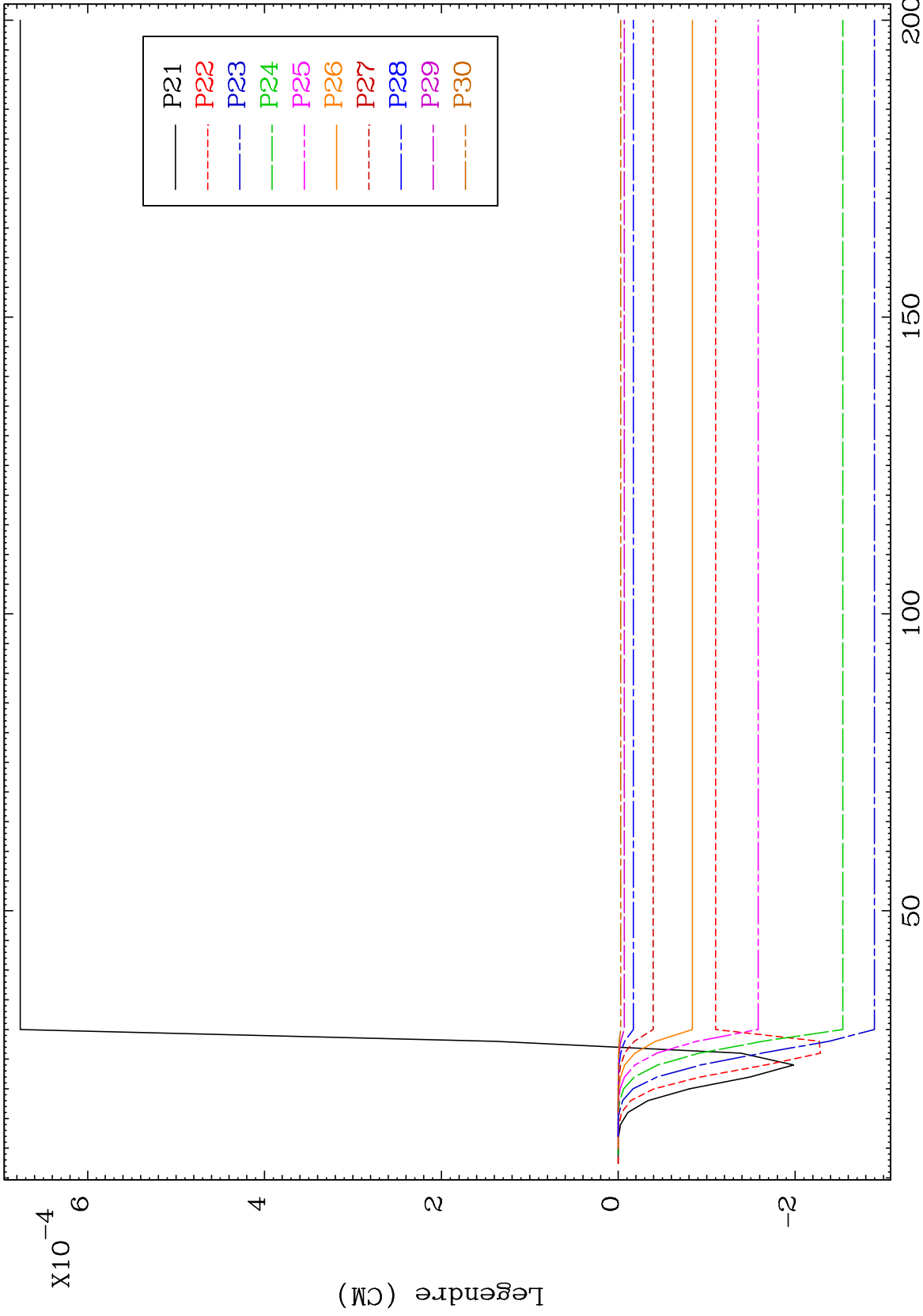
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



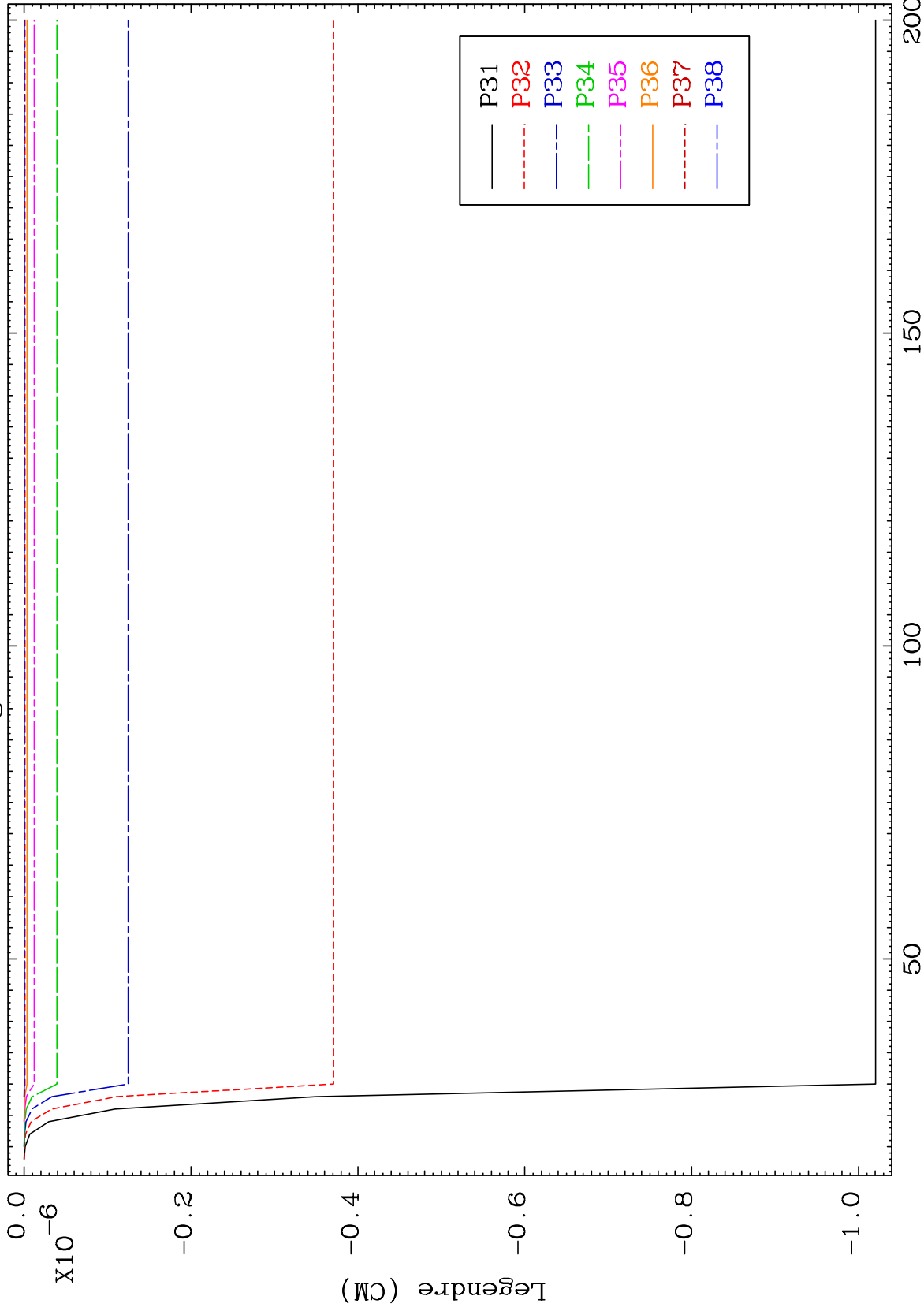
43

87-Fr-204

MAT 8701

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

87-Fr-204



87-Fr-204

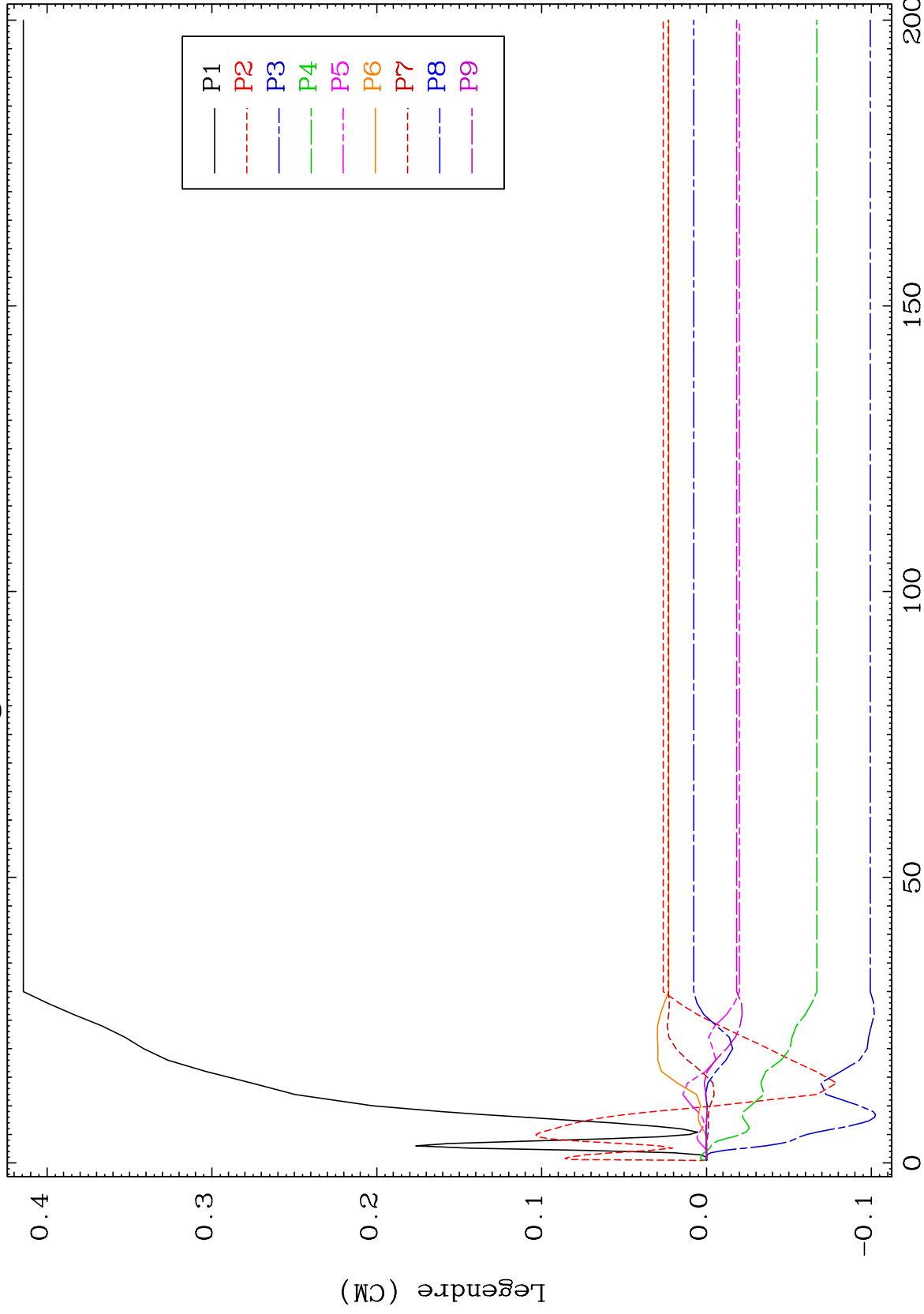
Incident Energy (MeV)

44

MAT 8701

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

87-Fr-204



45

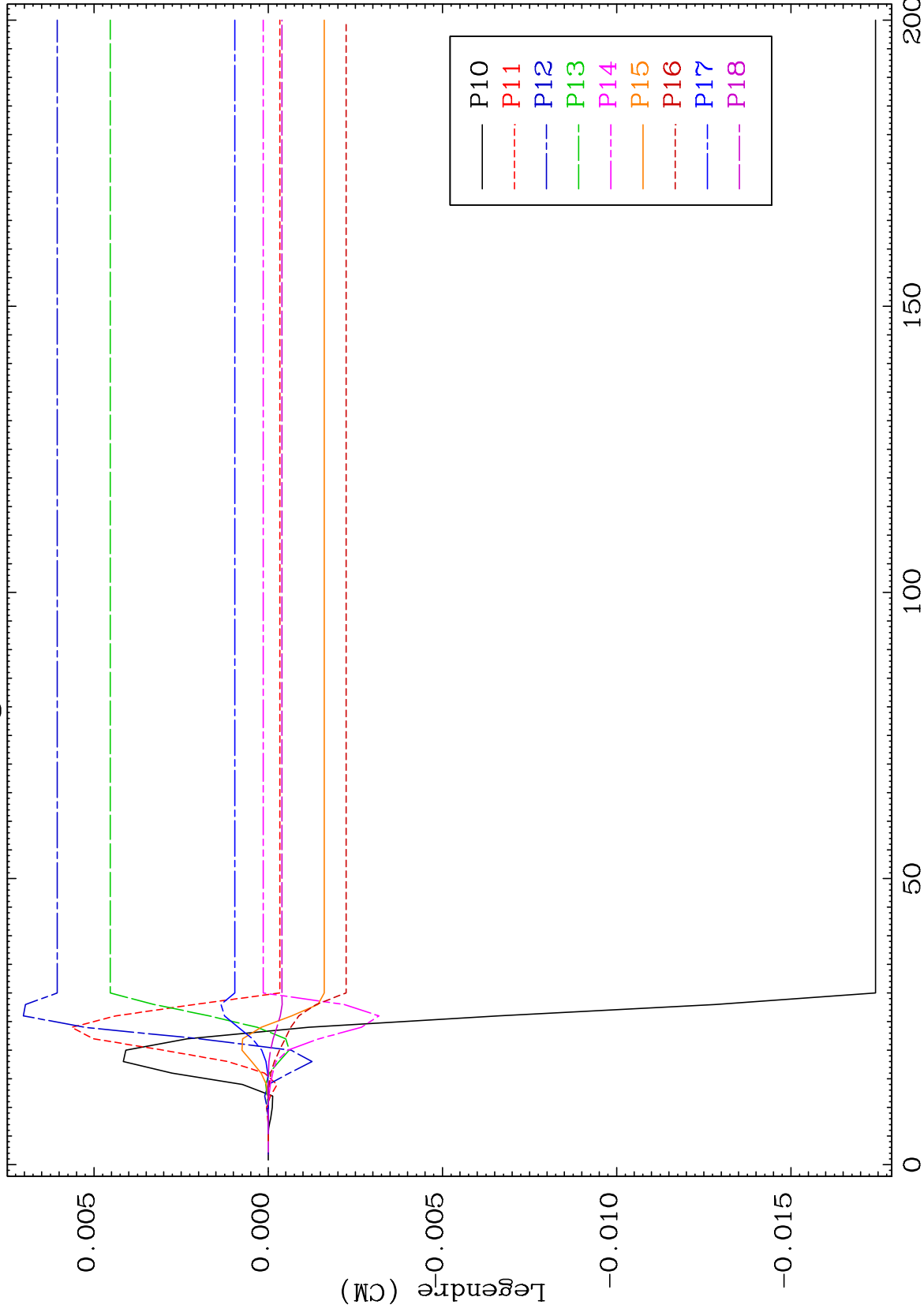
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



46

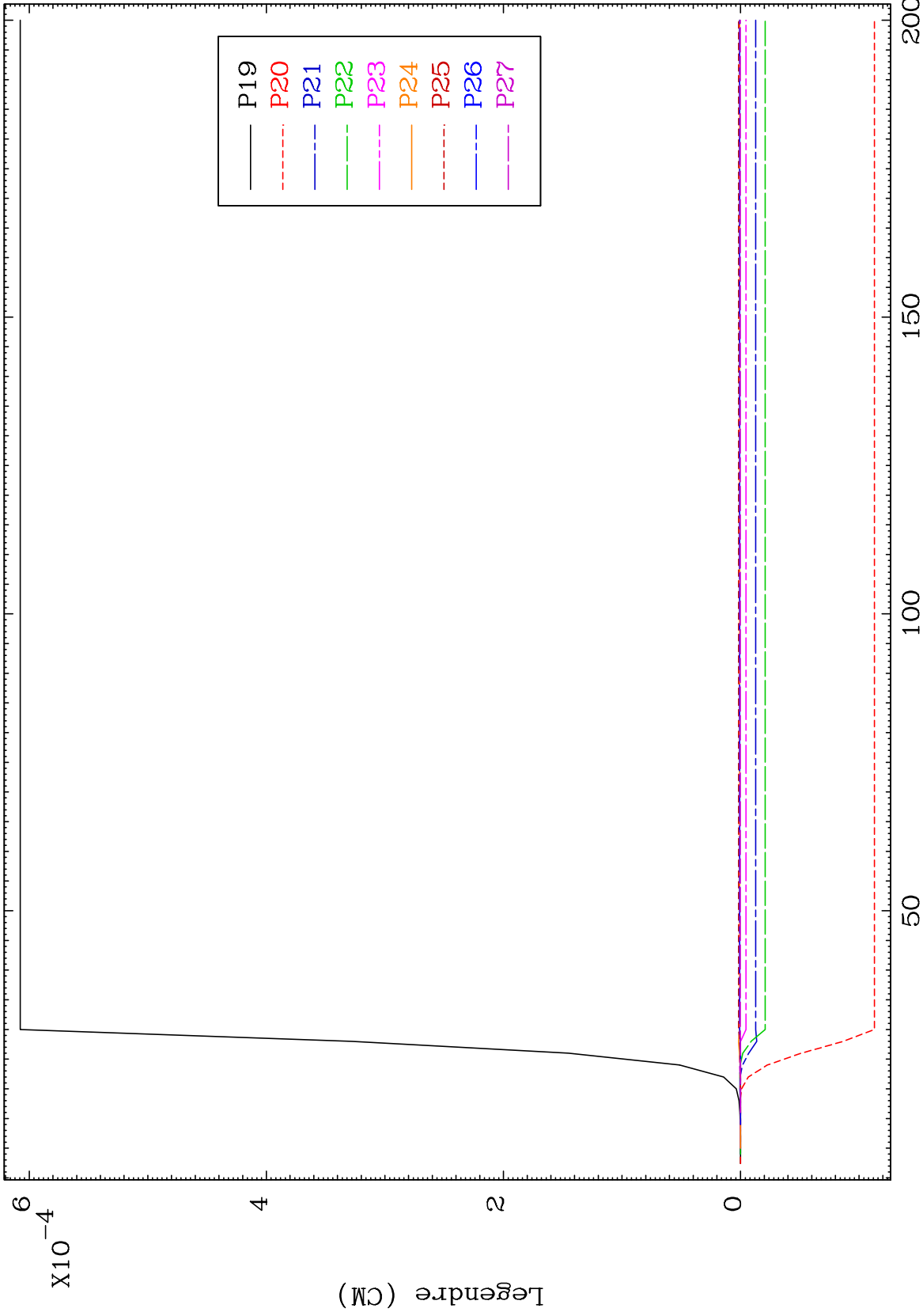
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



47

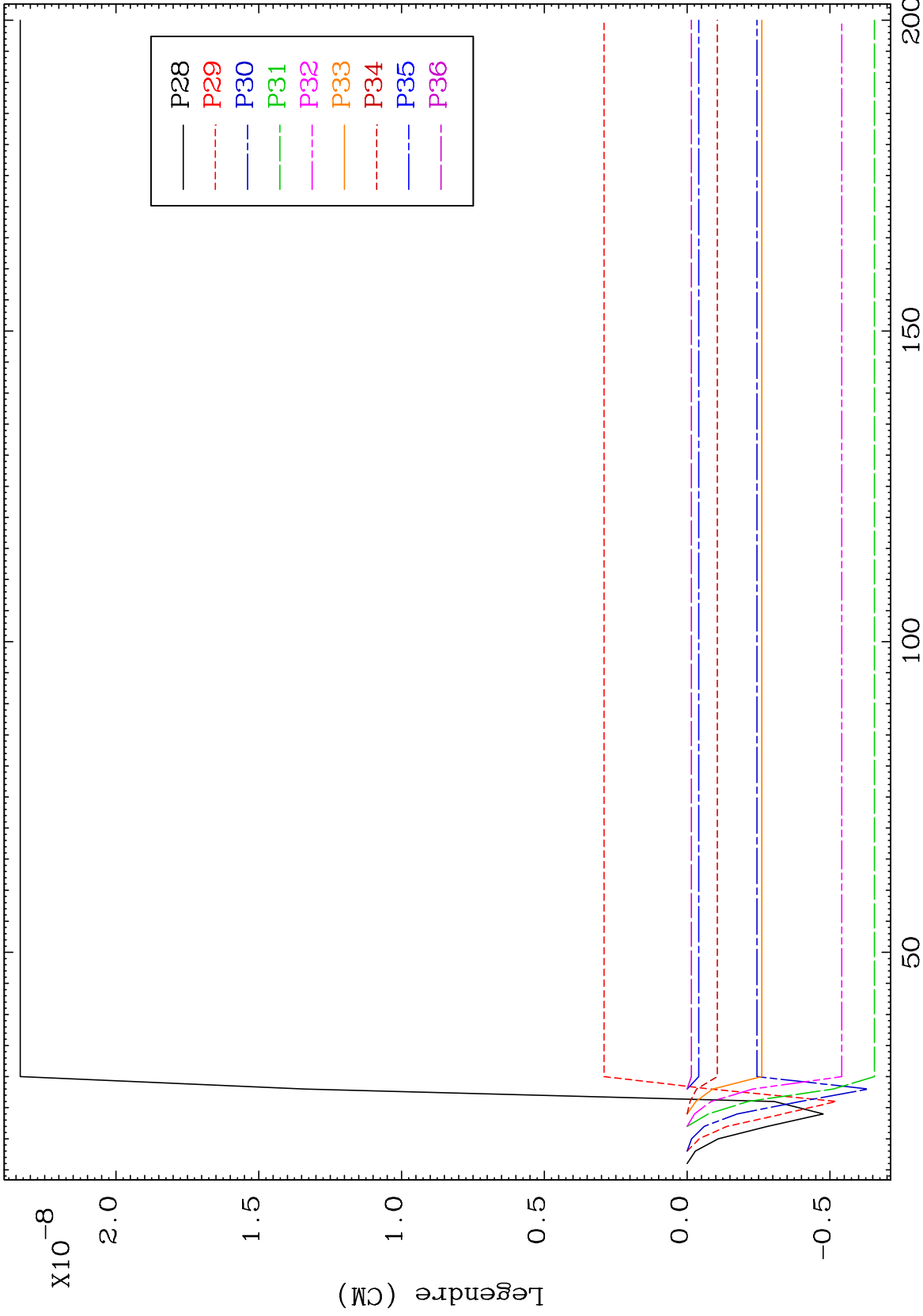
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204

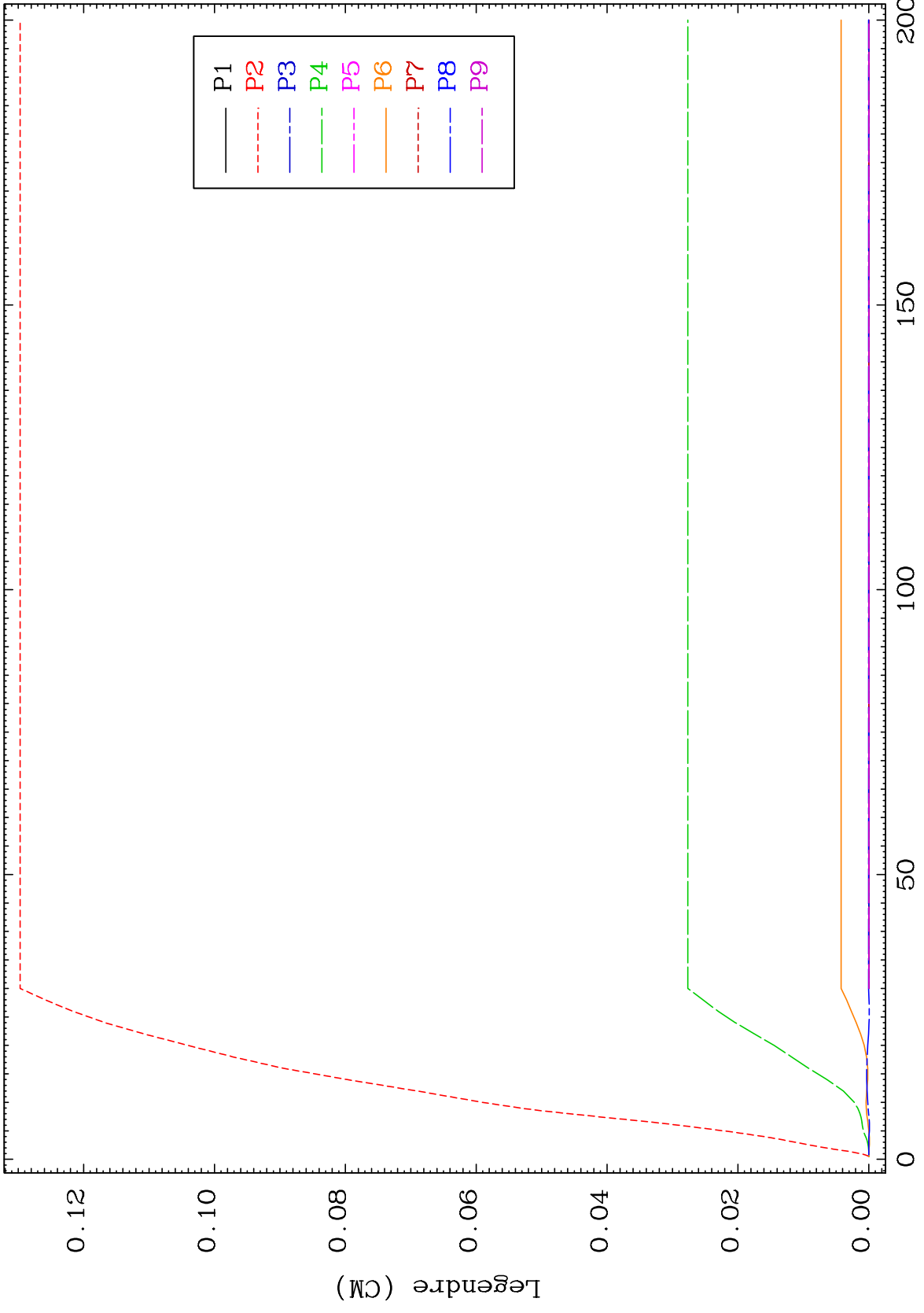


48

Incident Energy (MeV)

87-Fr-204

MAT 8701 MT= 59 (n,n') Level Legendre Coefficients 87-Fr-204

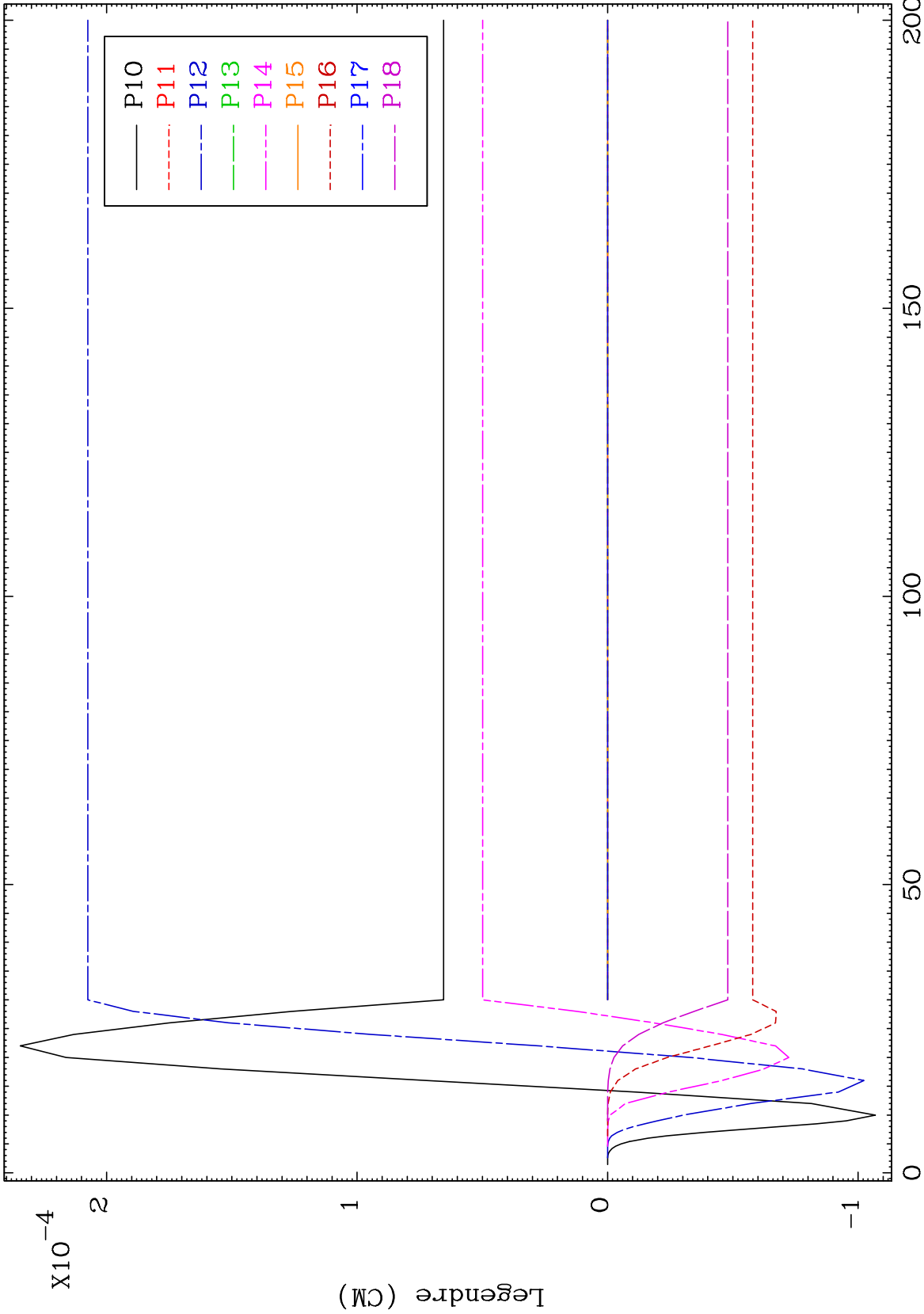


49 87-Fr-204

MAT 8701

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

87-Fr-204



50

50

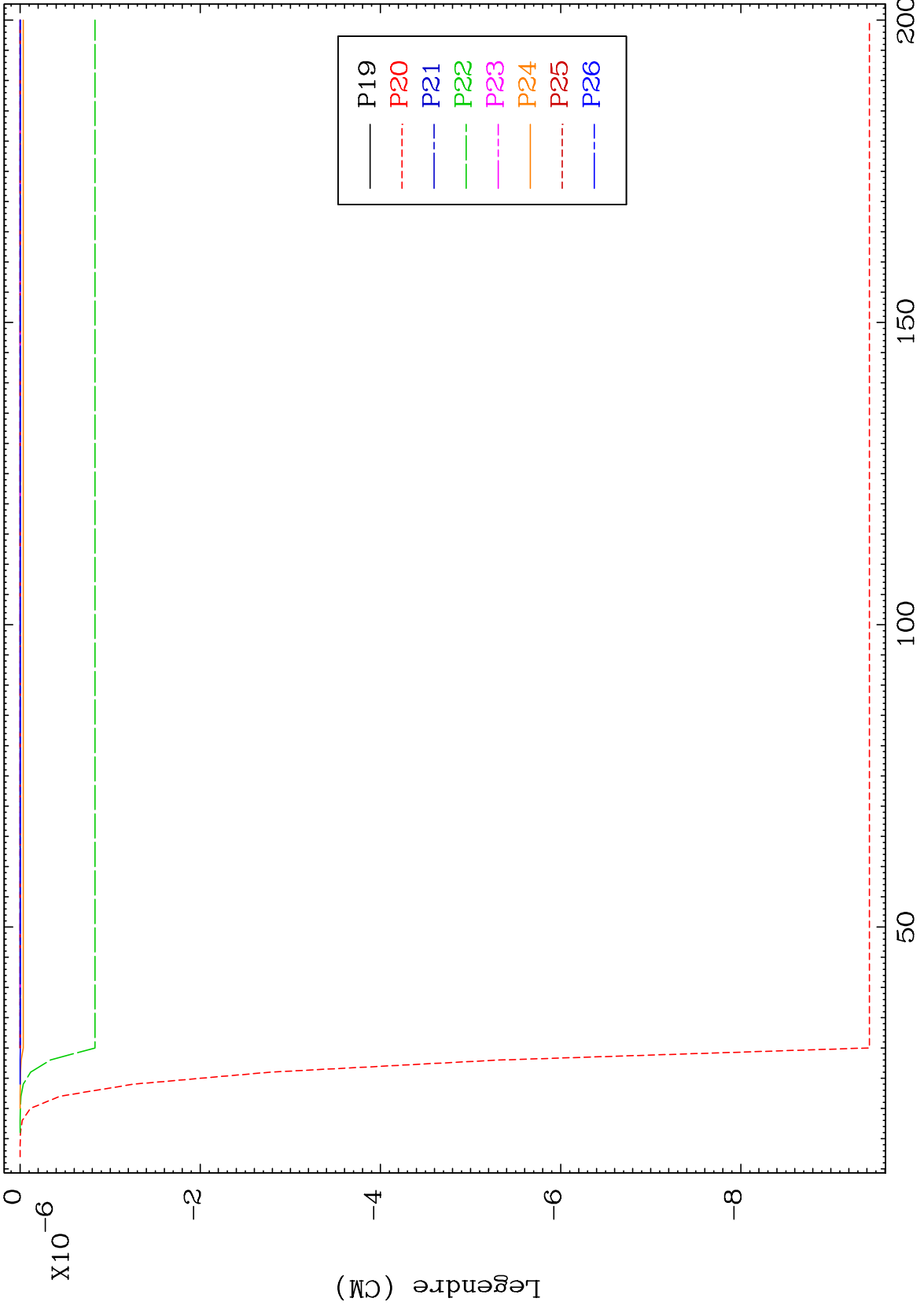
100

150

200

87-Fr-204

MAT 8701 MT= 59 (n,n') Level Legendre Coefficients 87-Fr-204

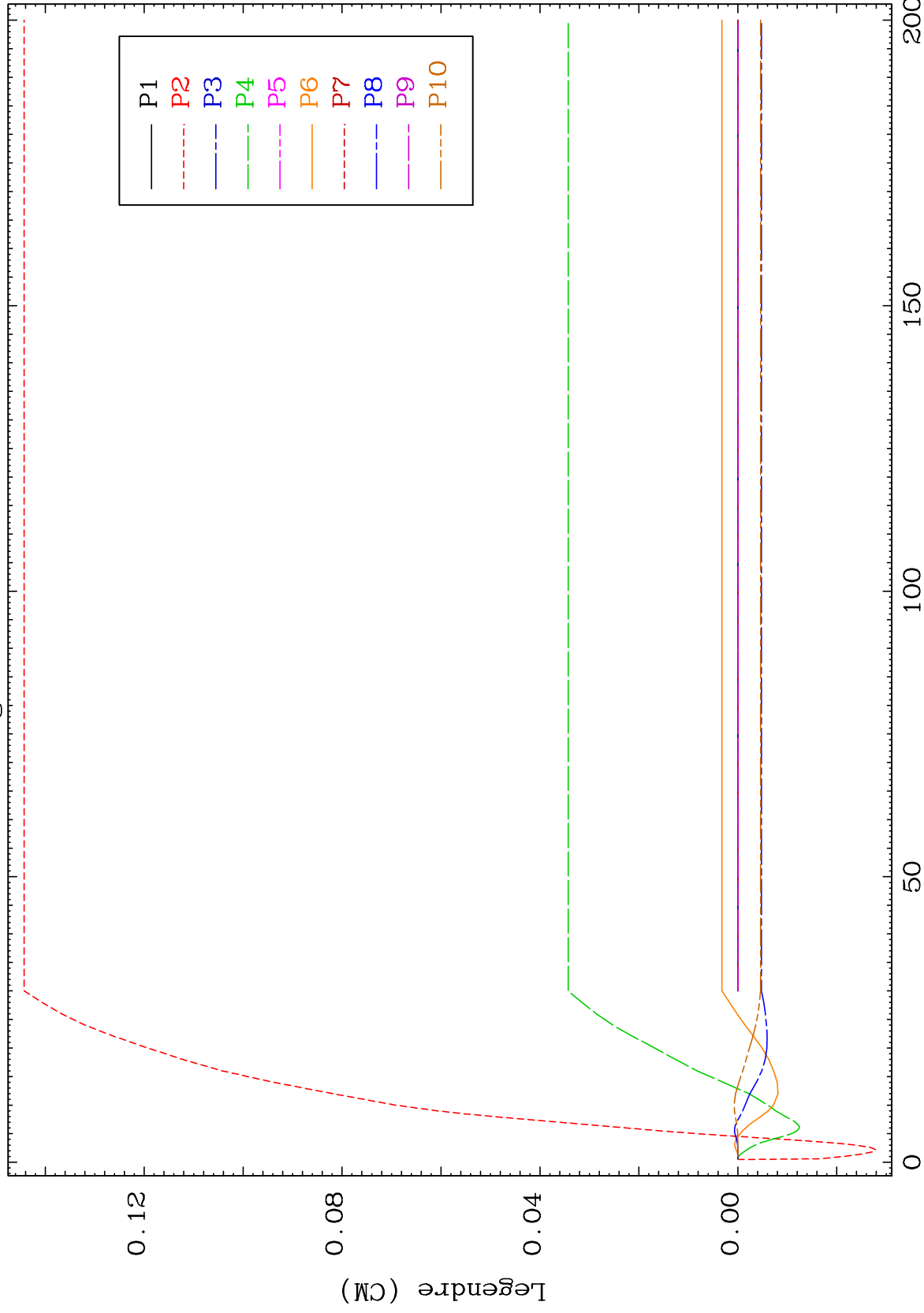


51 87-Fr-204

MAT 8701

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

87-Fr-204



52

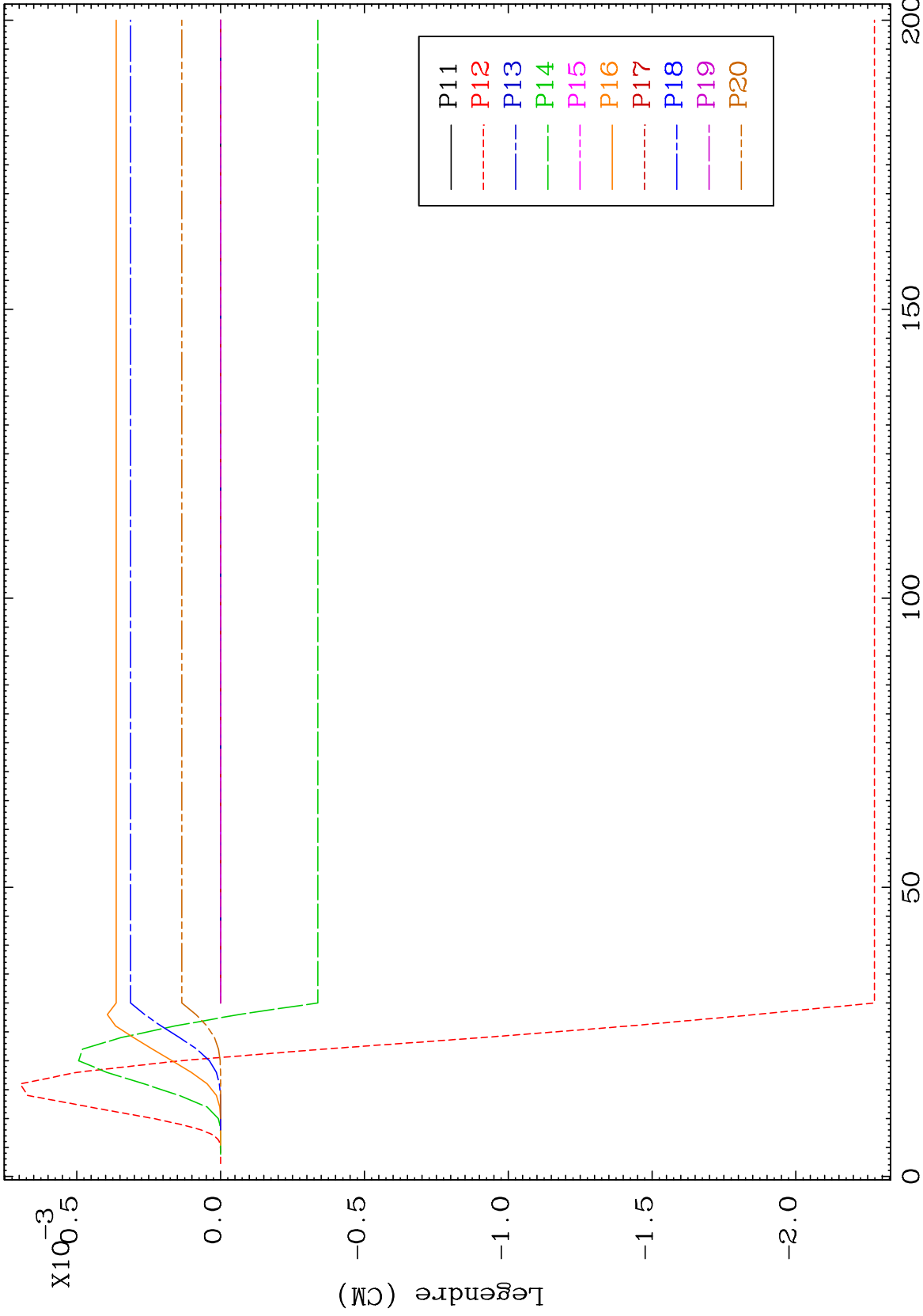
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204

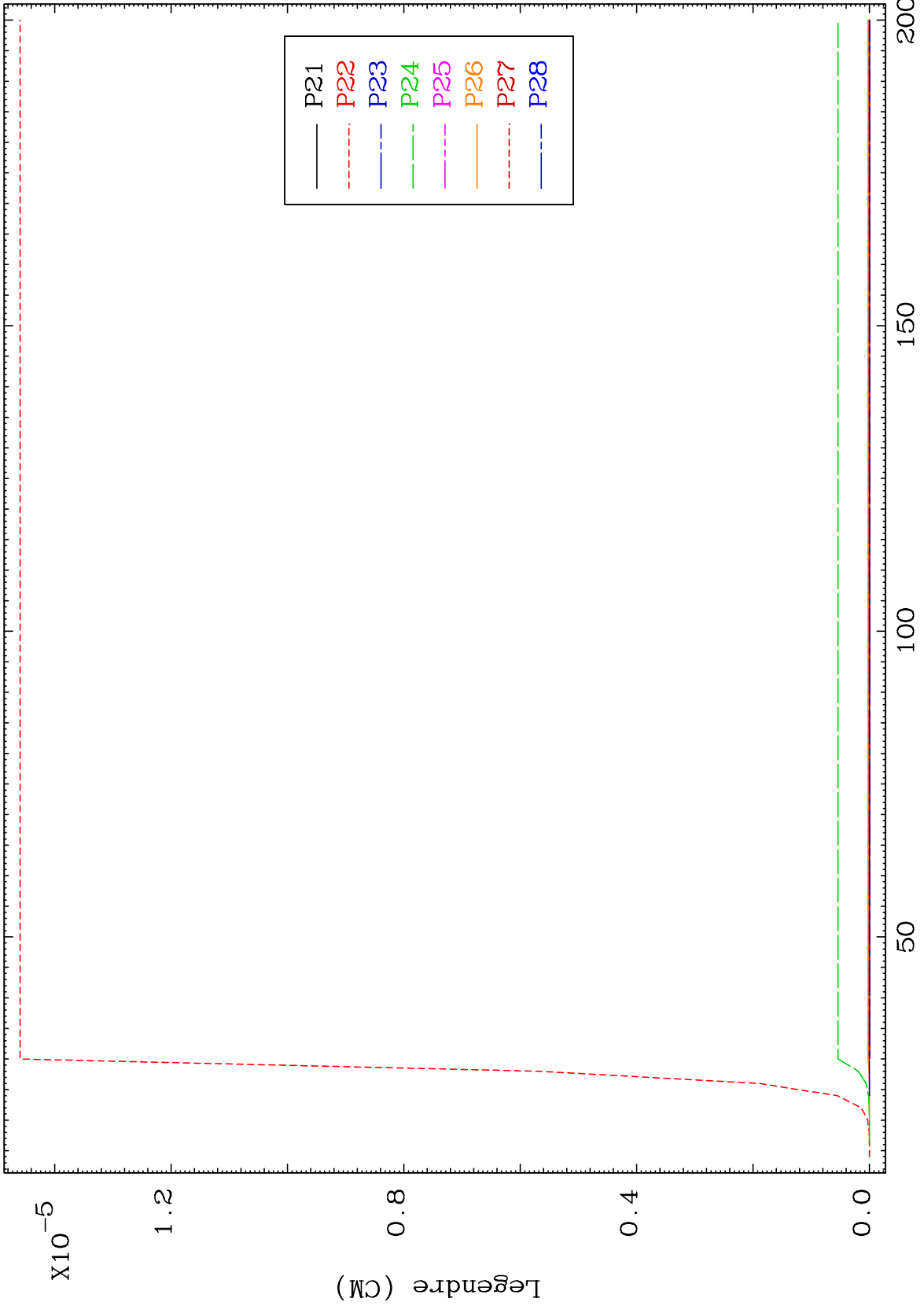


53

Incident Energy (MeV)

87-Fr-204

MAT 8701 MT= 60 (n,n') Level Legendre Coefficients 87-Fr-204

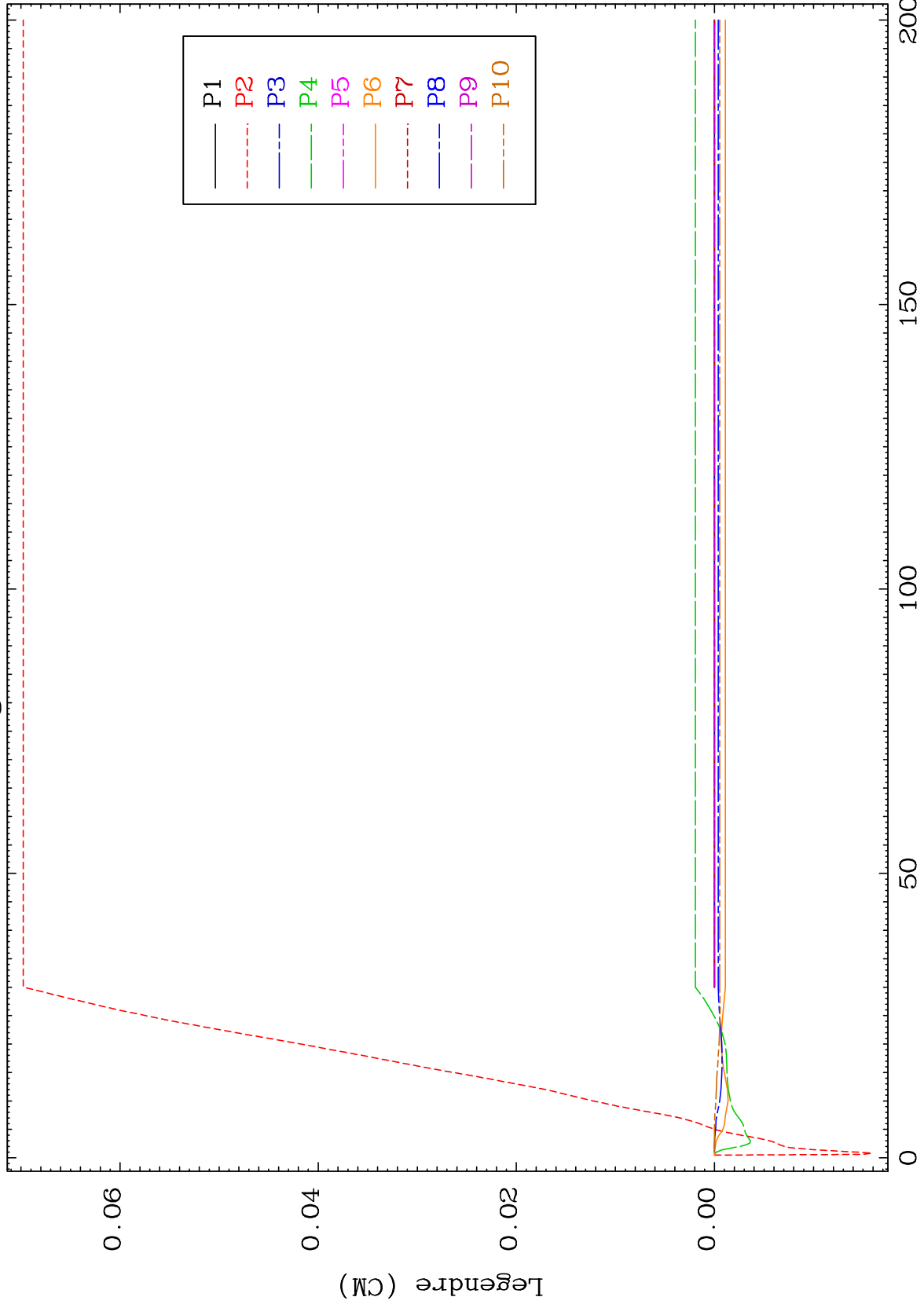


54 87-Fr-204

MAT 8701

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

87-Fr-204



55

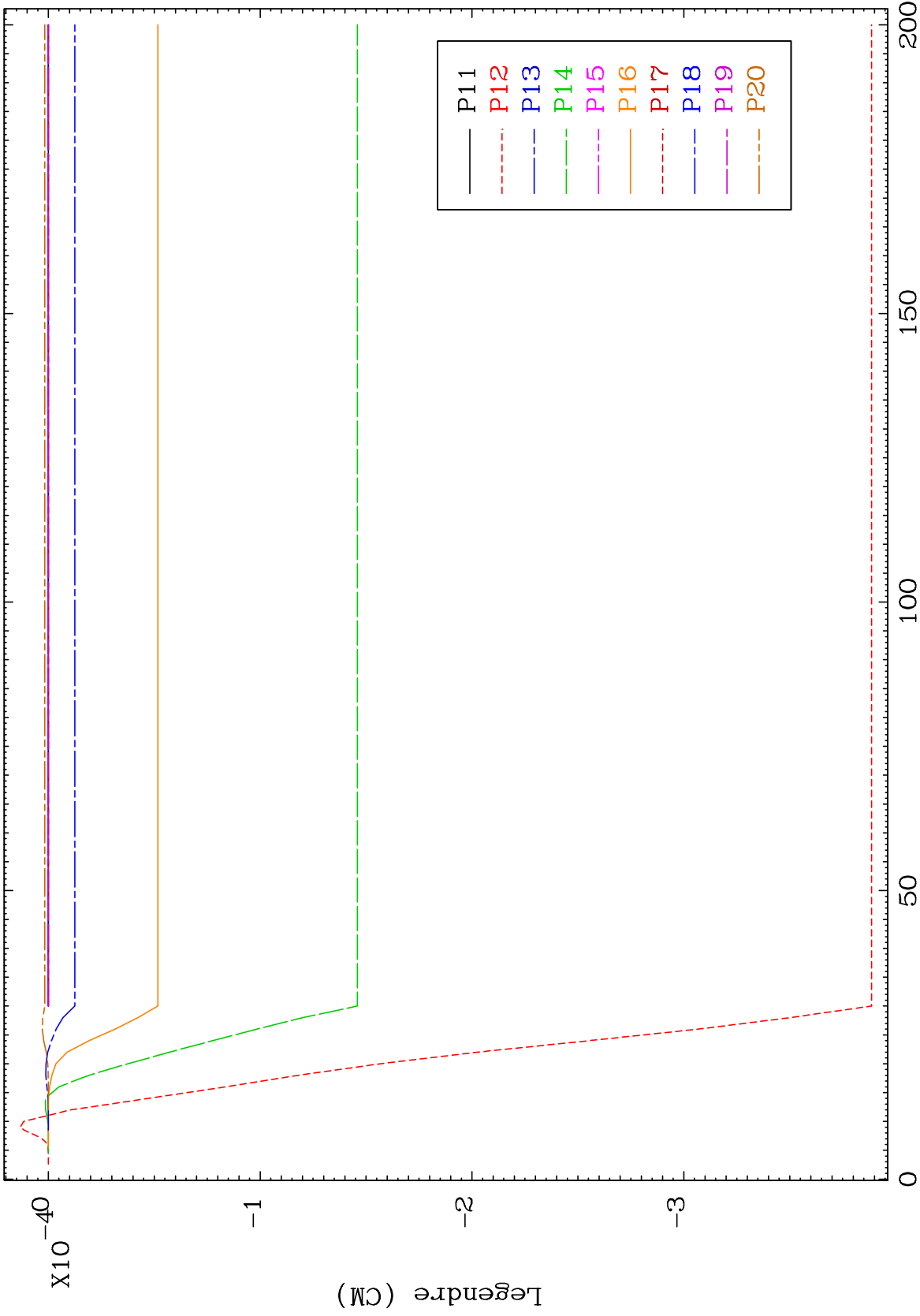
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204

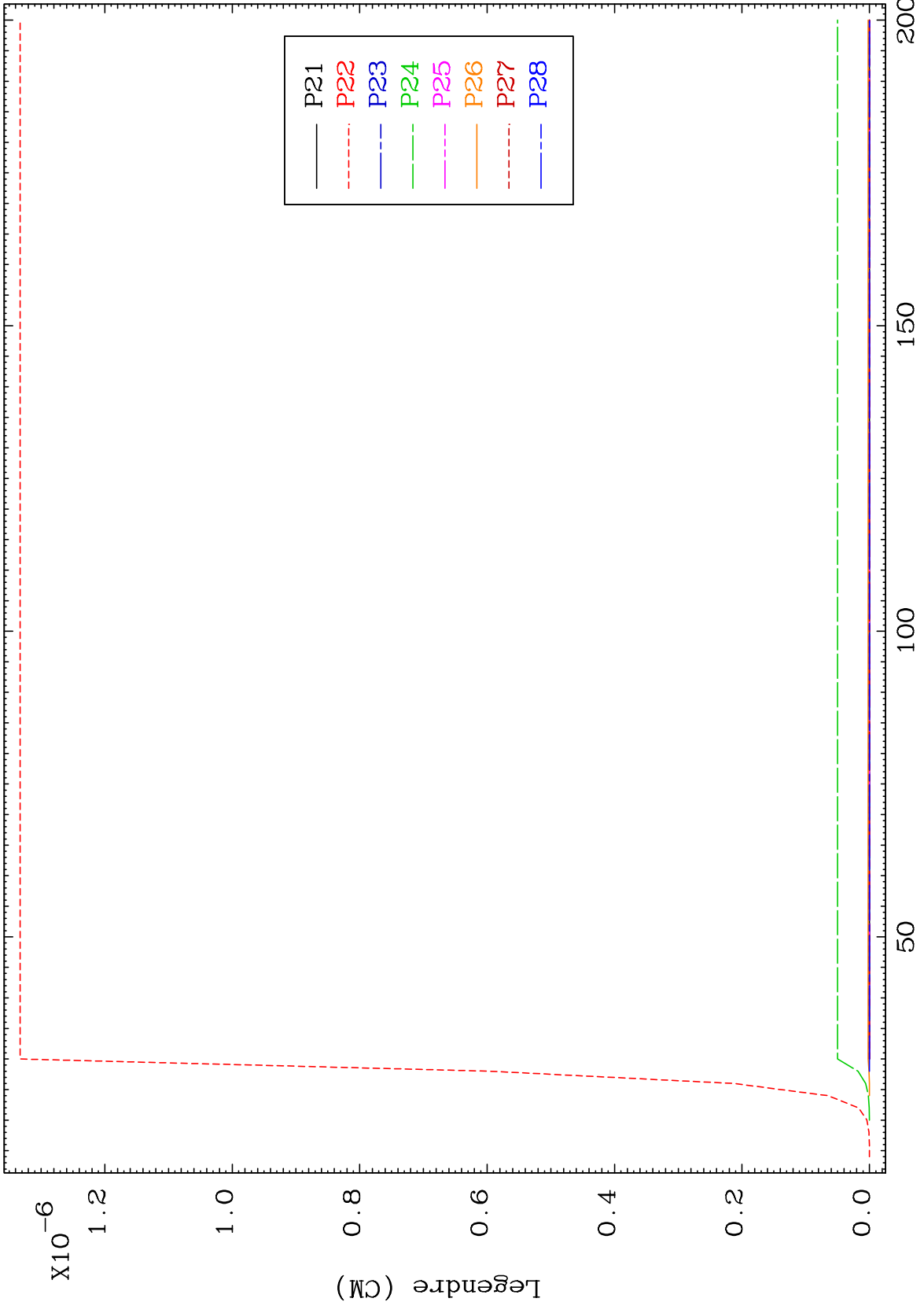


56

Incident Energy (MeV)

87-Fr-204

MAT 8701 MT= 61 (n,n') Level Legendre Coefficients 87-Fr-204

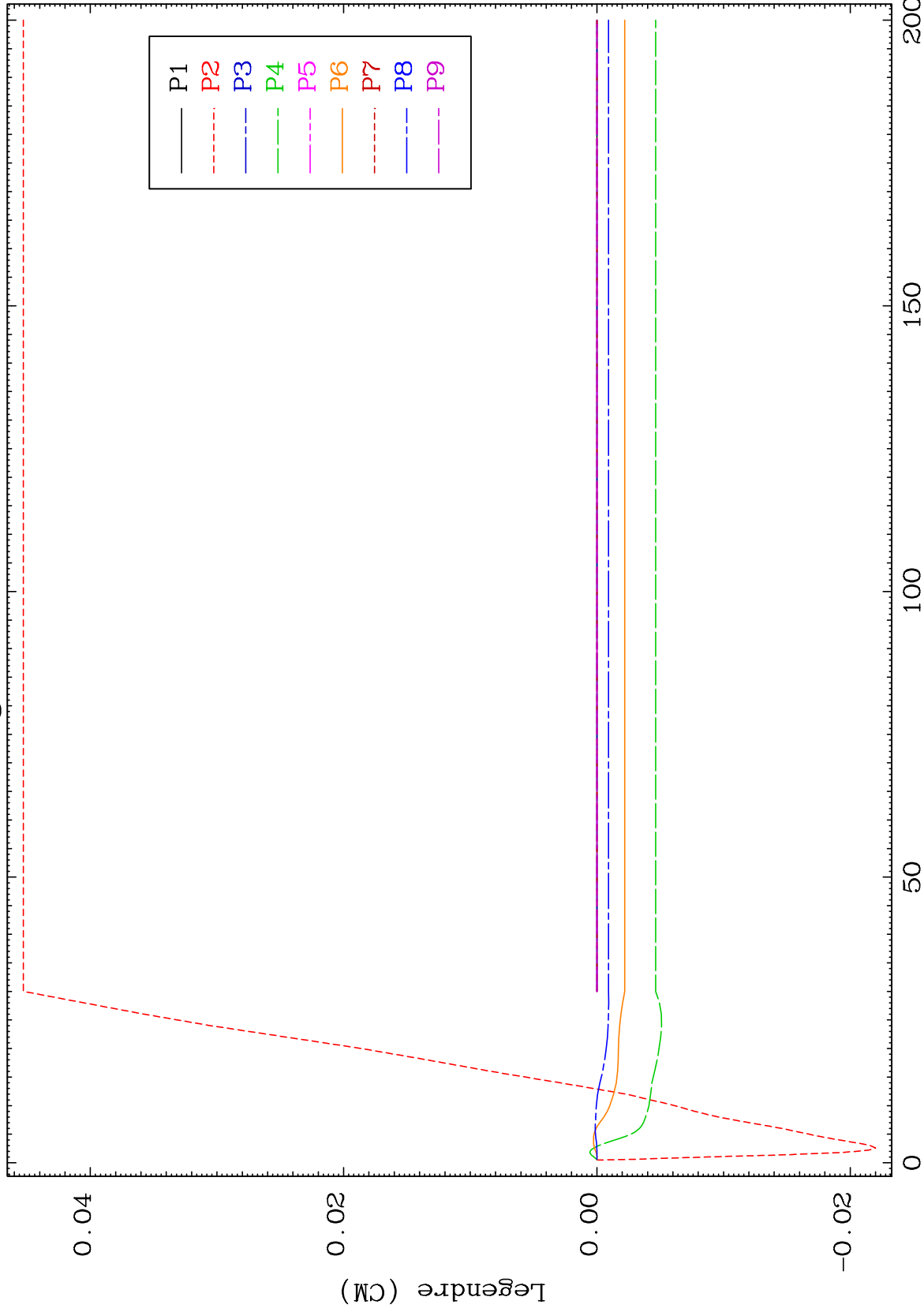


57 Incident Energy (MeV) 87-Fr-204

MAT 8701

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

87-Fr-204



58

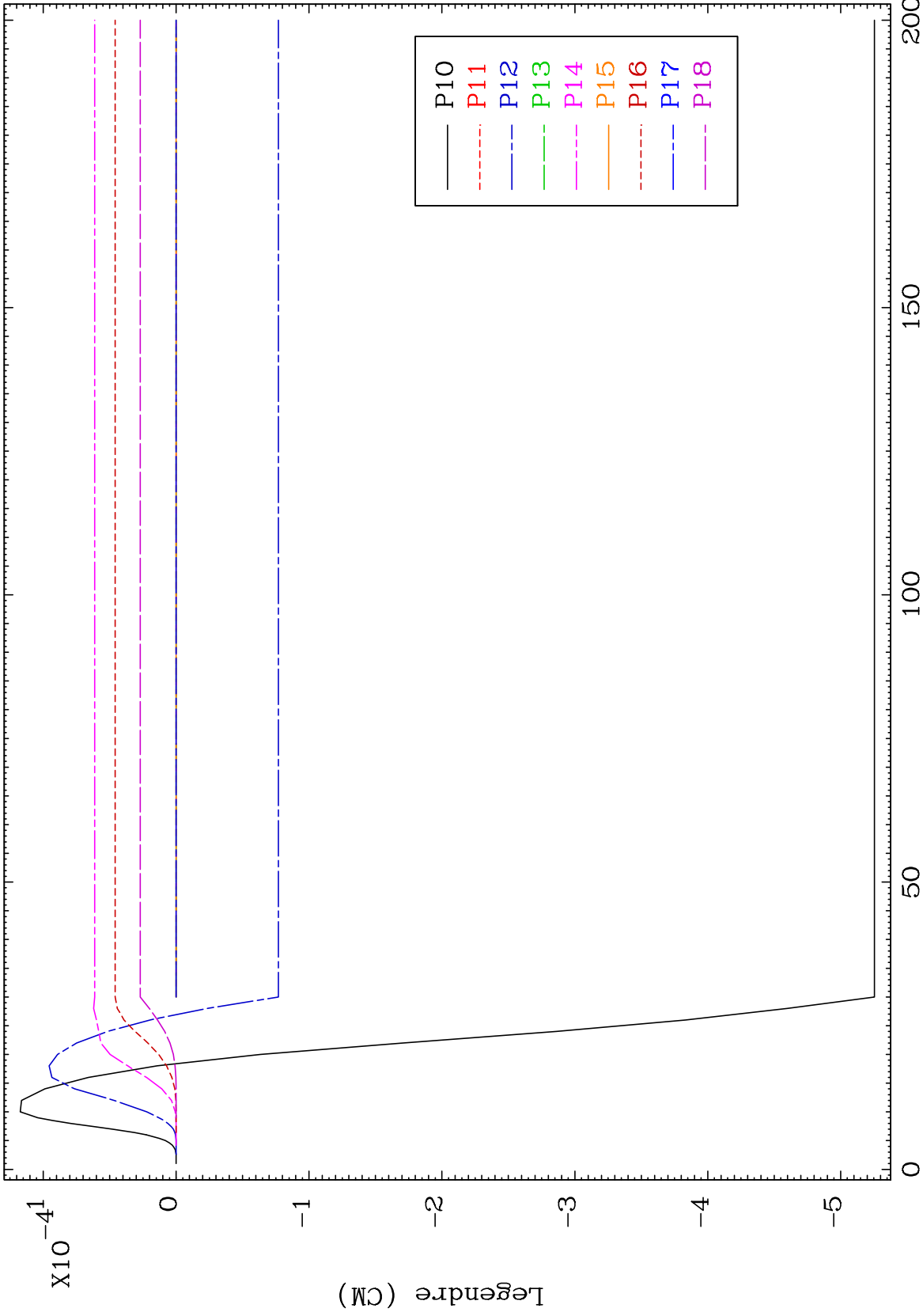
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204

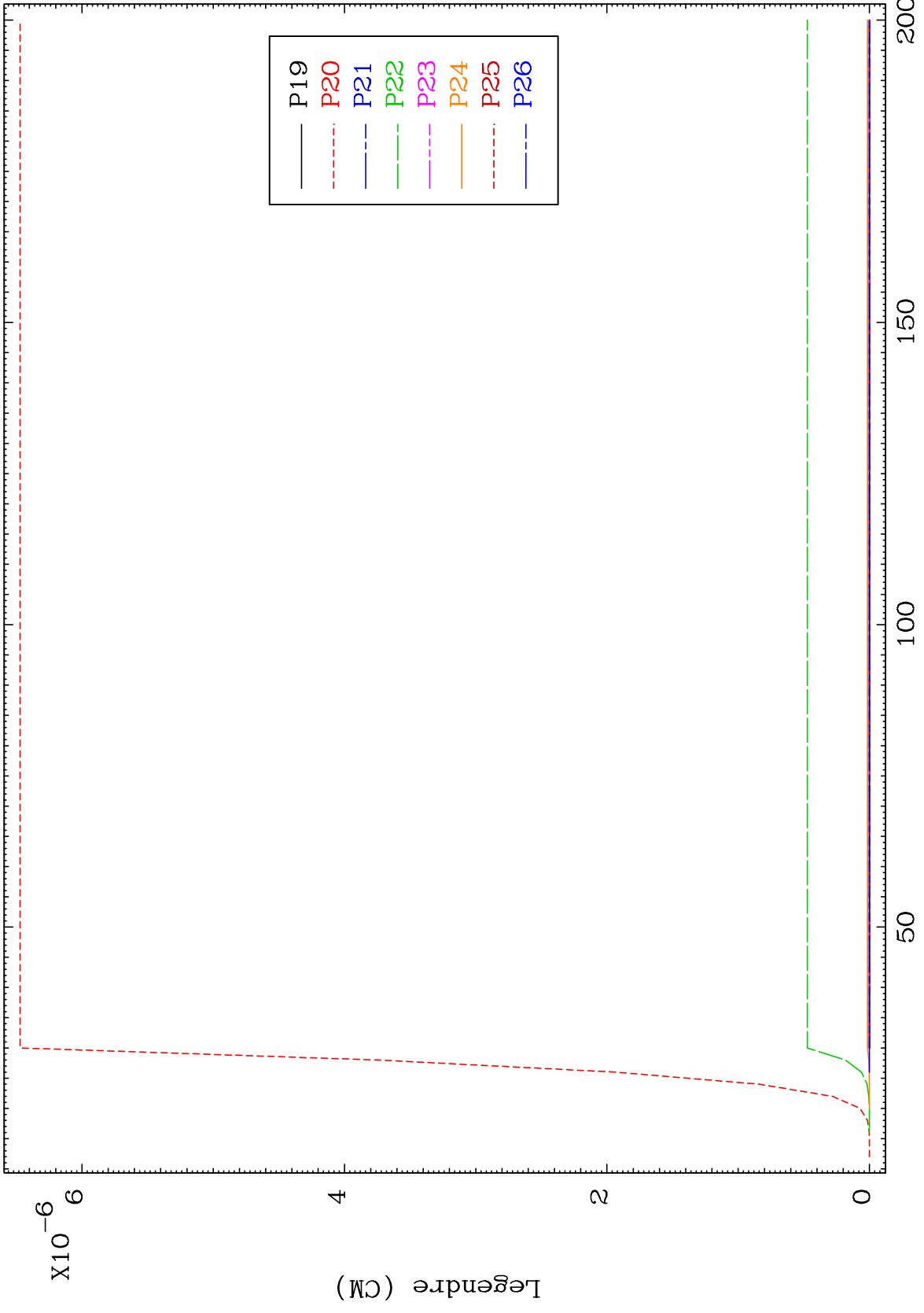


59

Incident Energy (MeV)

87-Fr-204

MAT 8701 MT= 62 (n,n') Level Legendre Coefficients 87-Fr-204

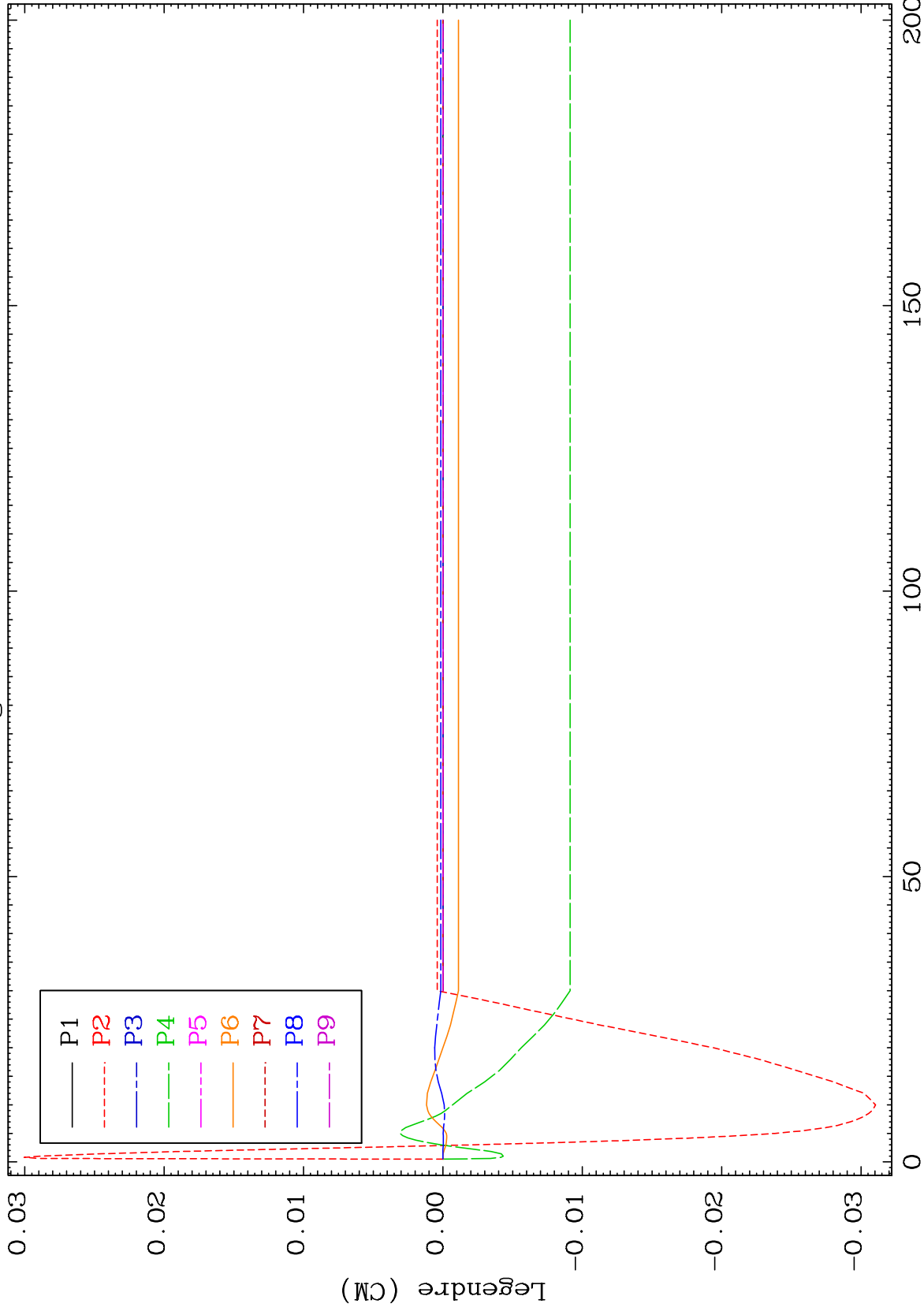


87-Fr-204

MAT 8701

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

87-Fr-204



61

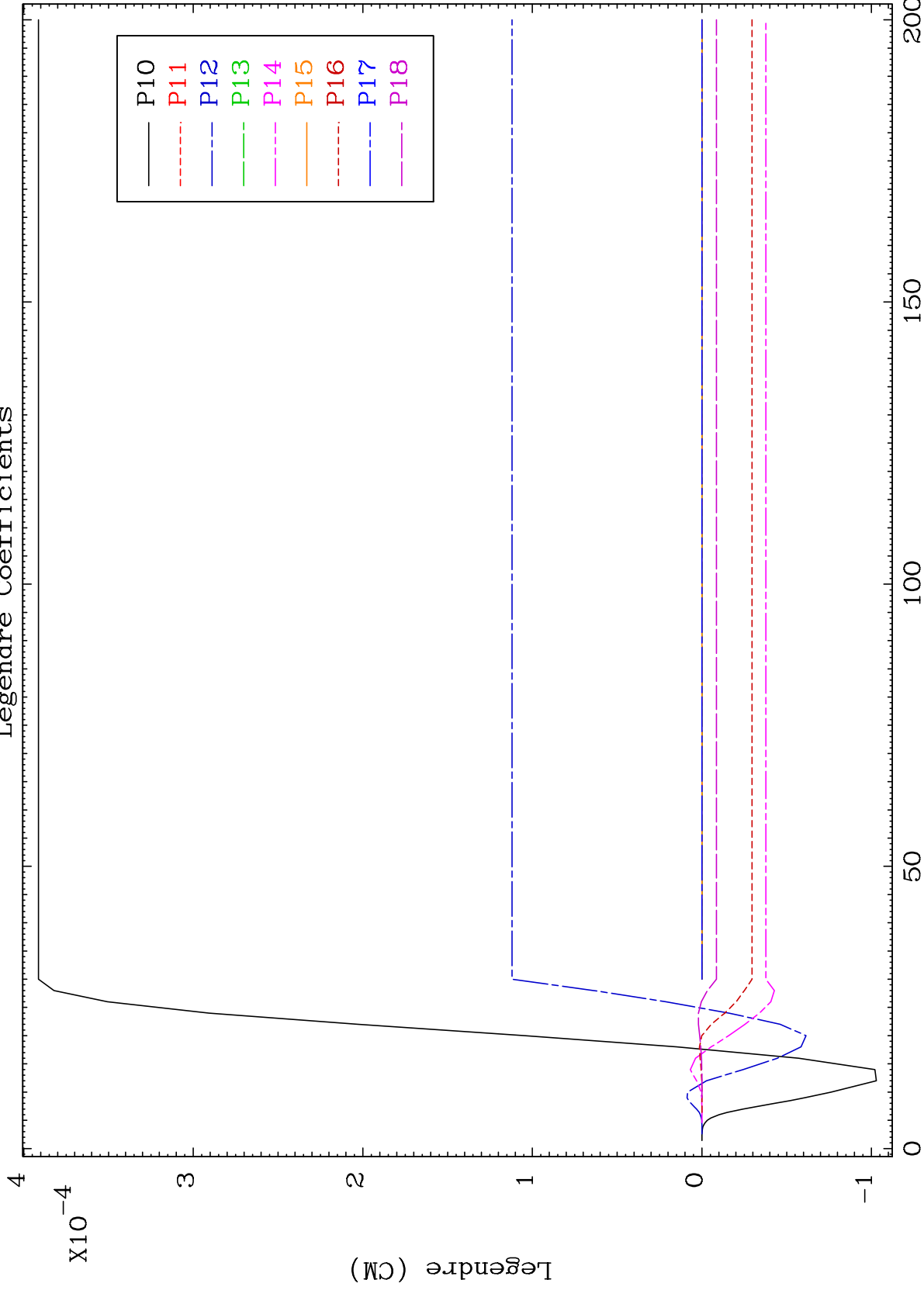
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204

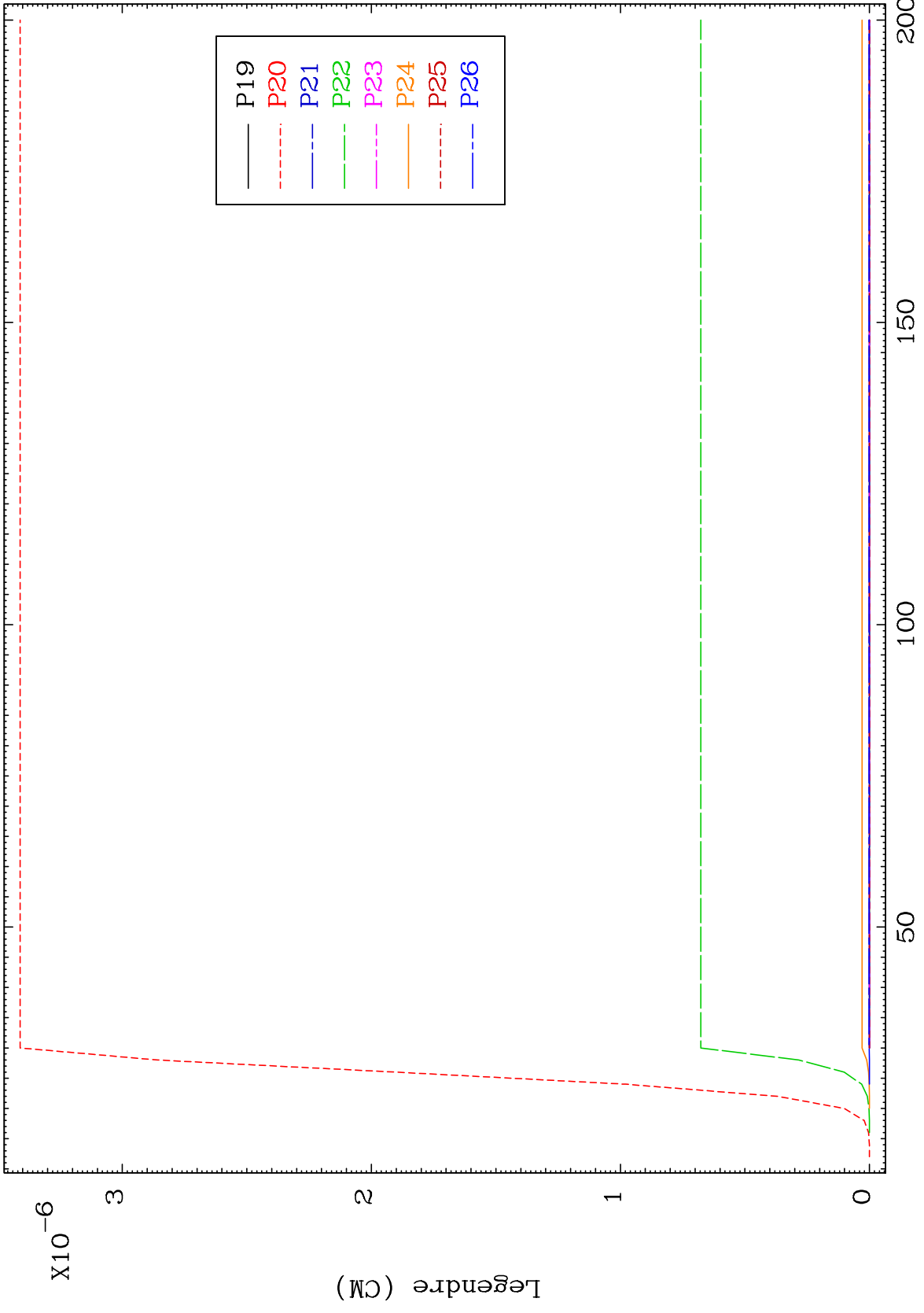


62

Incident Energy (MeV)

87-Fr-204

MAT 8701 MT= 63 (n,n') Level Legendre Coefficients 87-Fr-204

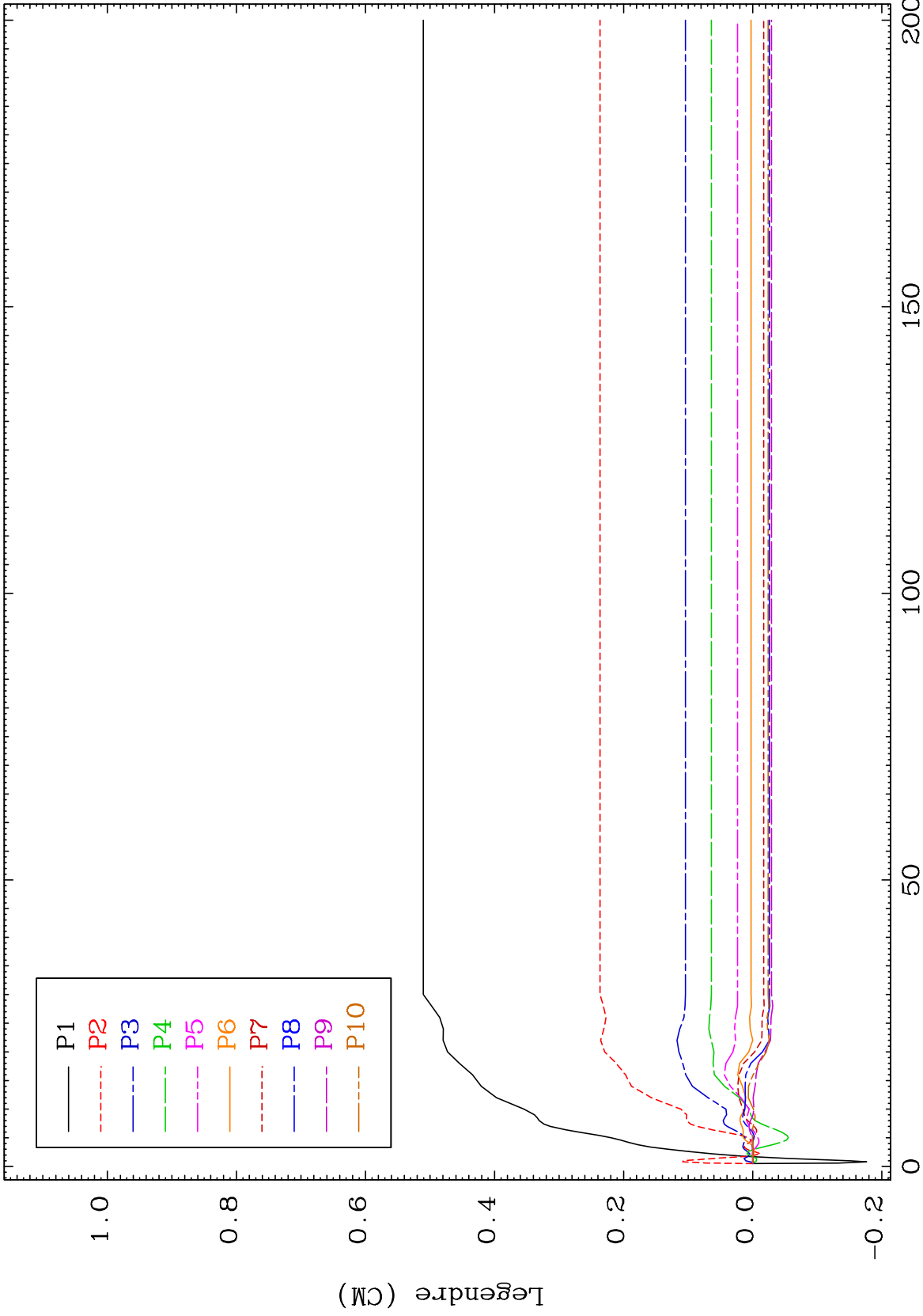


63 Incident Energy (MeV) 87-Fr-204

MAT 8701

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

87-Fr-204



64

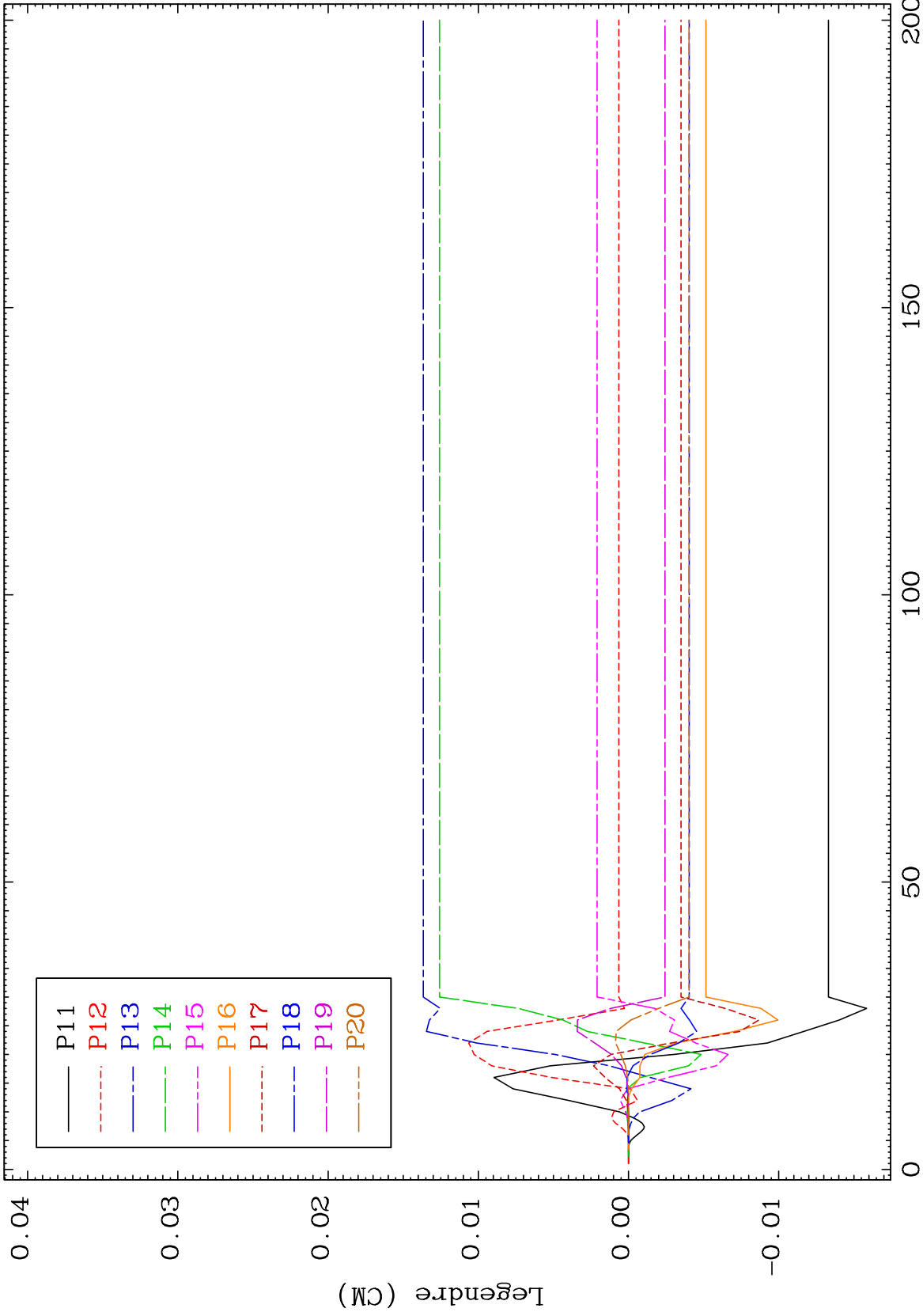
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



65

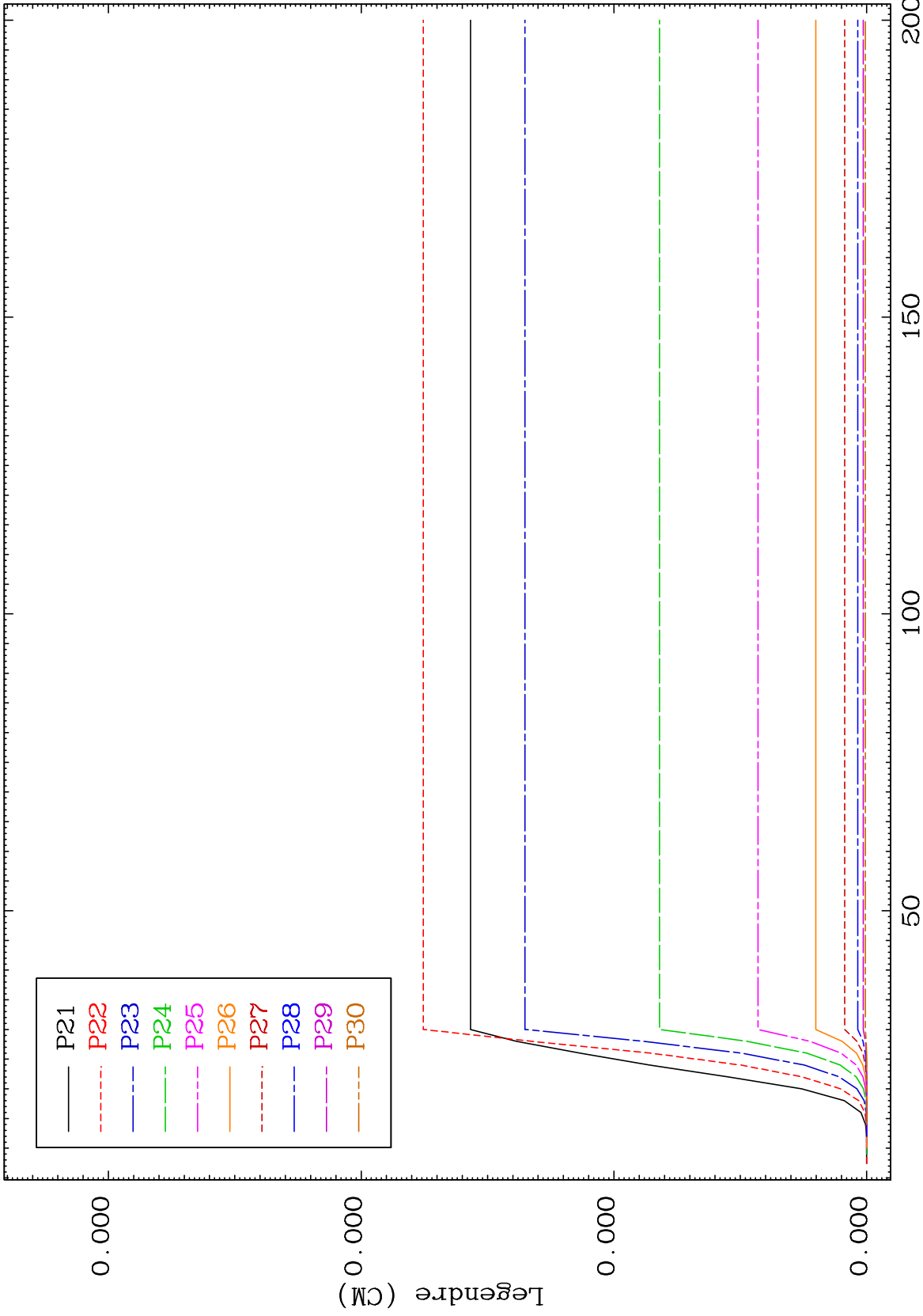
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



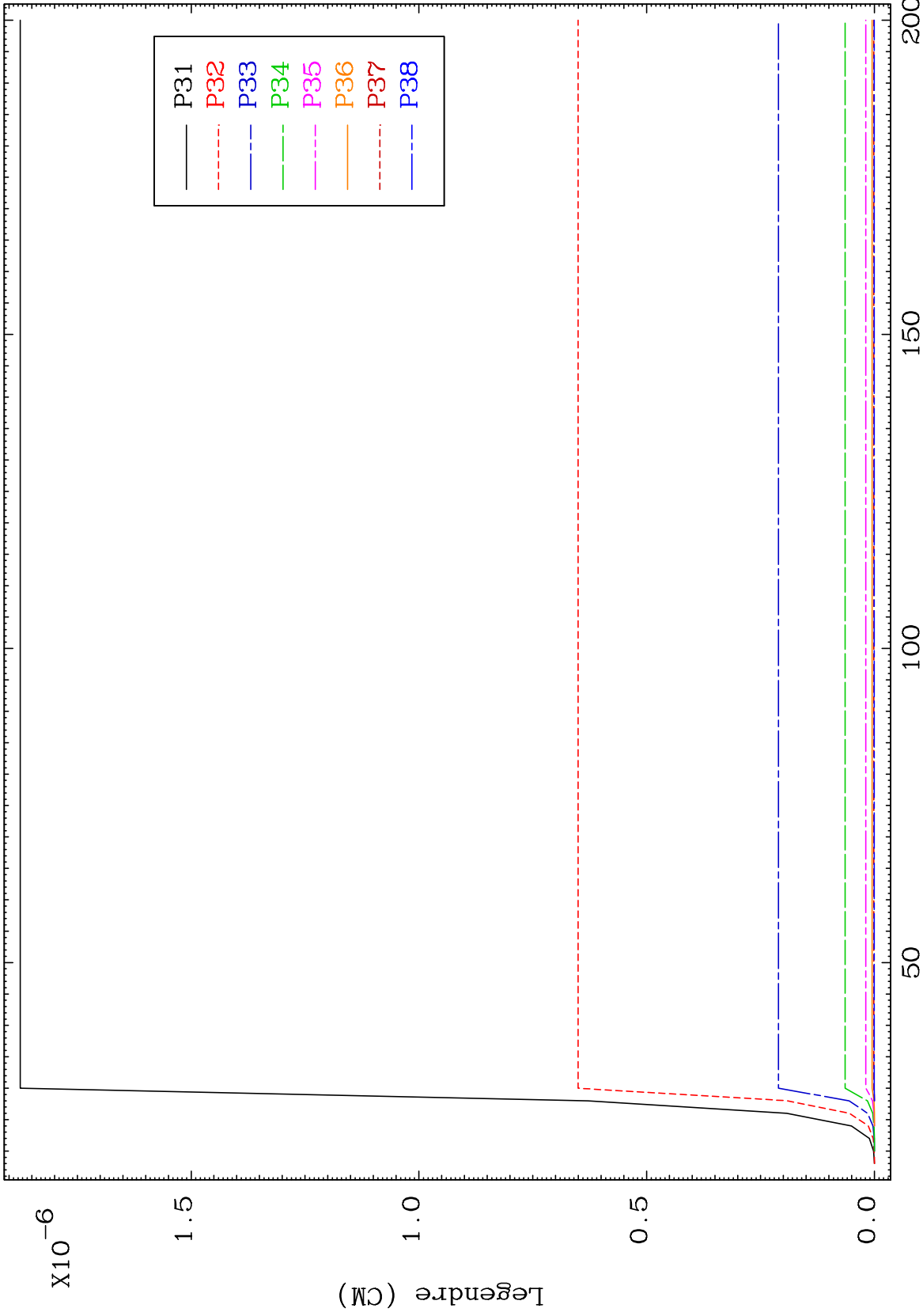
66

87-Fr-204

MAT 8701

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

87-Fr-204



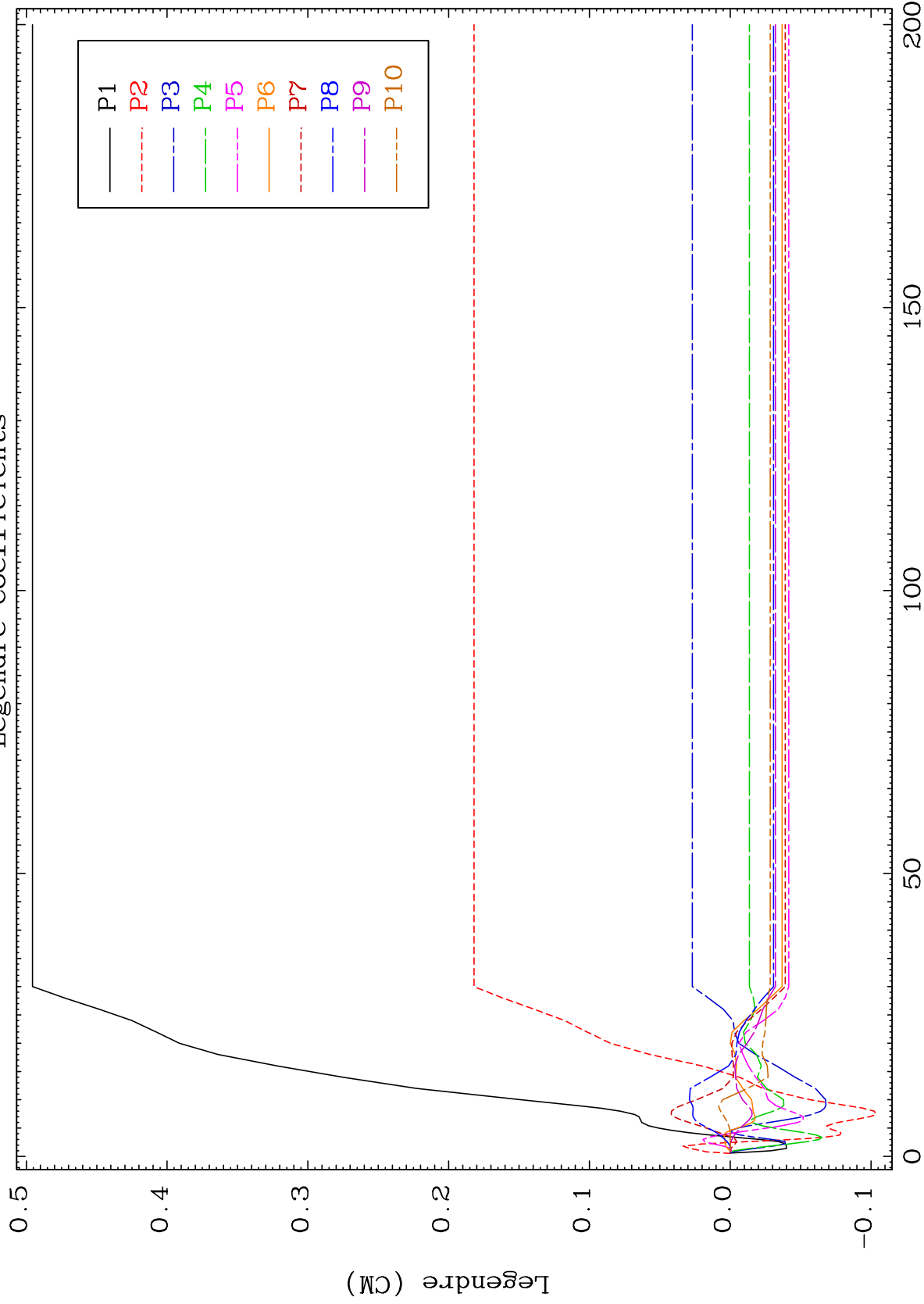
67

87-Fr-204

MAT 8701

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

87-Fr-204



68

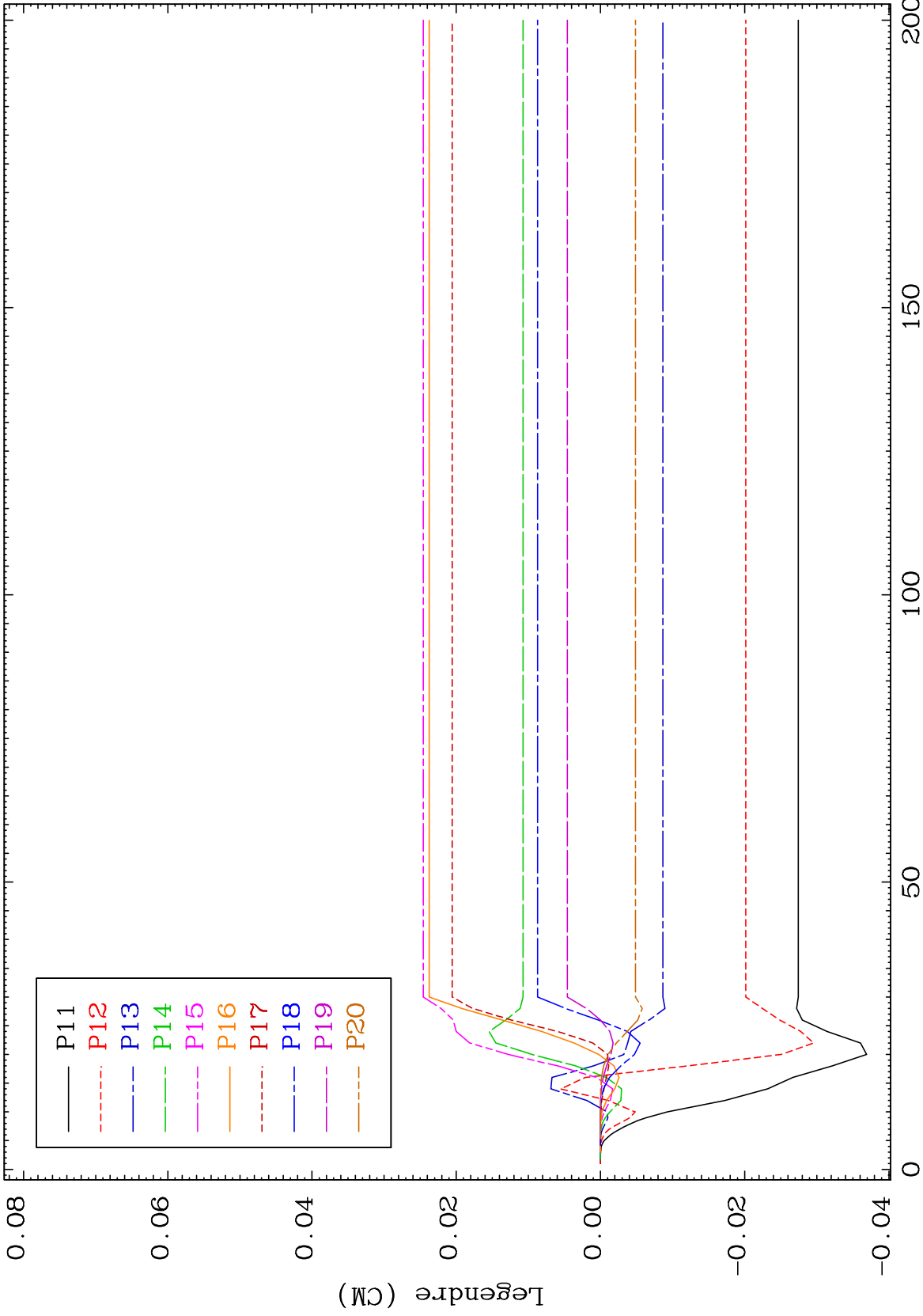
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



69

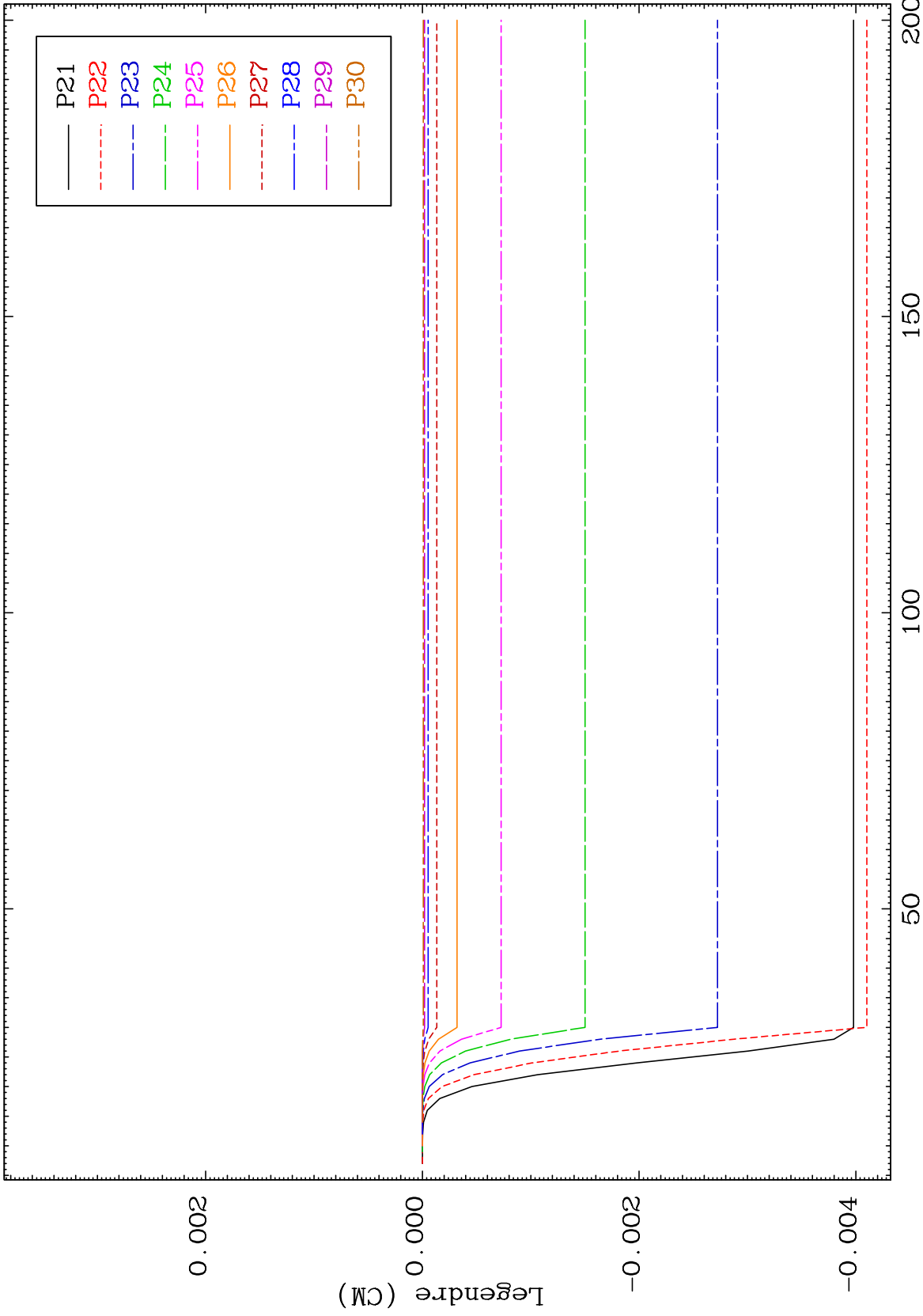
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



70

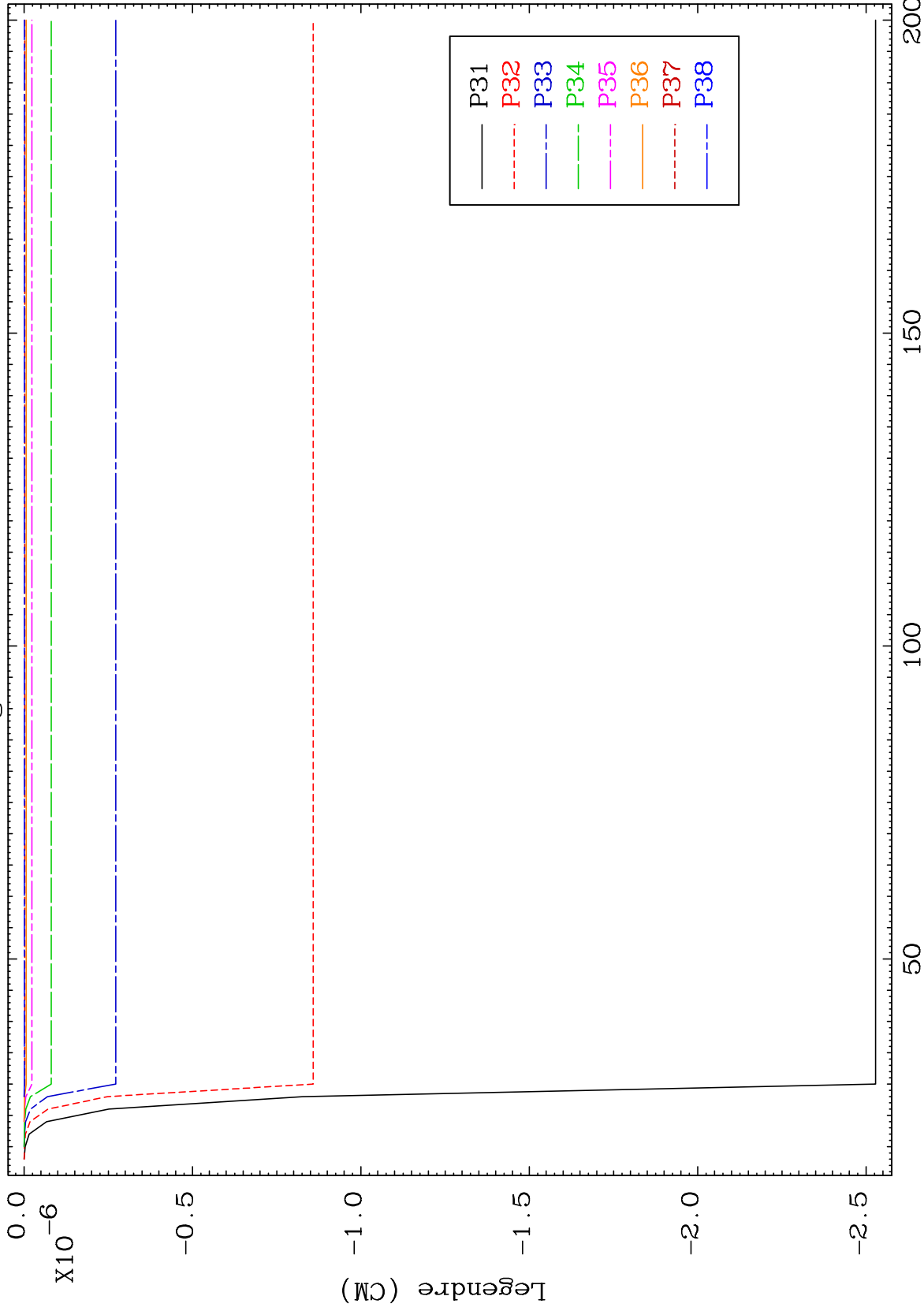
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204

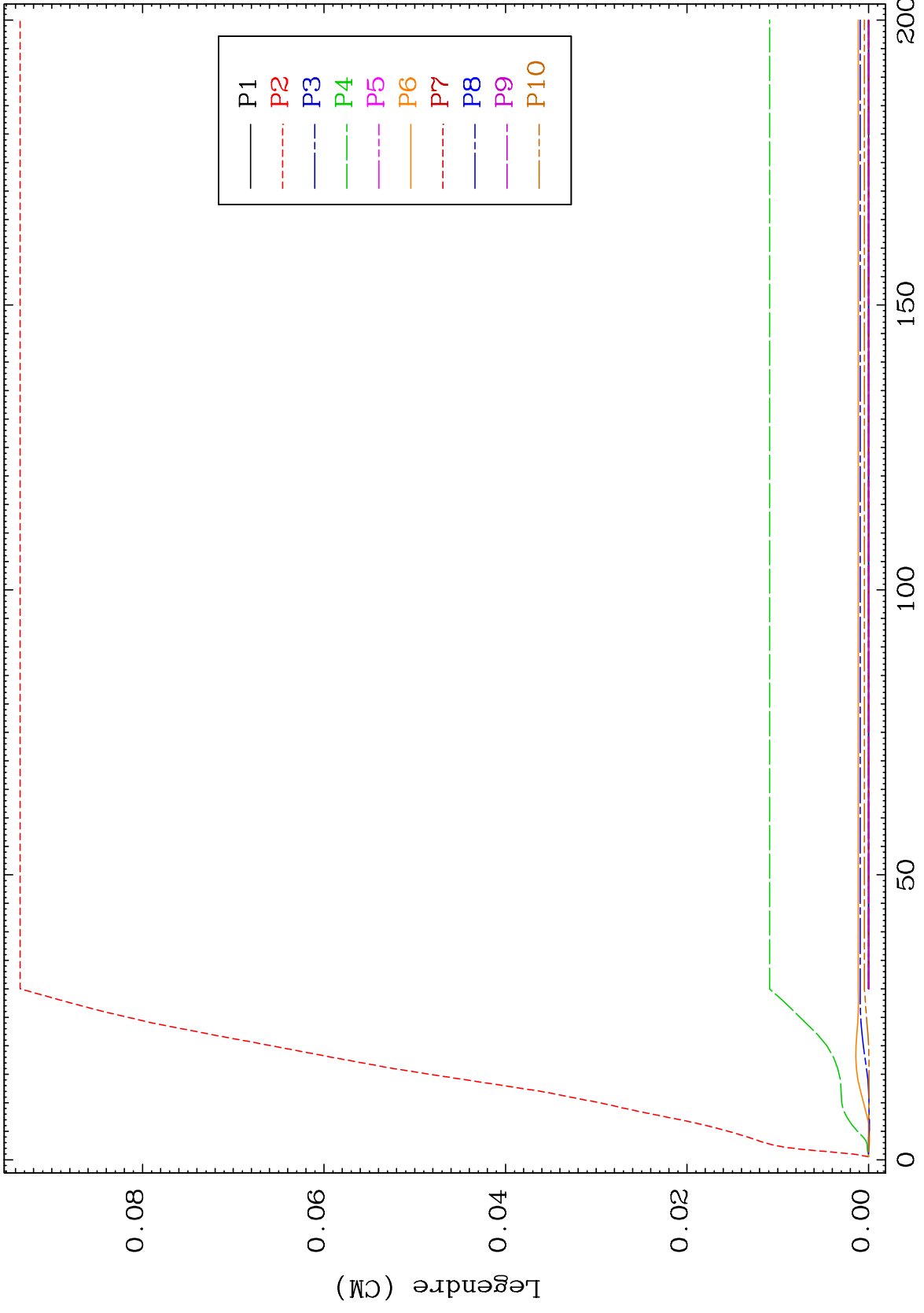


71

Incident Energy (MeV)

87-Fr-204

MAT 8701 MT= 66 (n,n') Level Legendre Coefficients 87-Fr-204

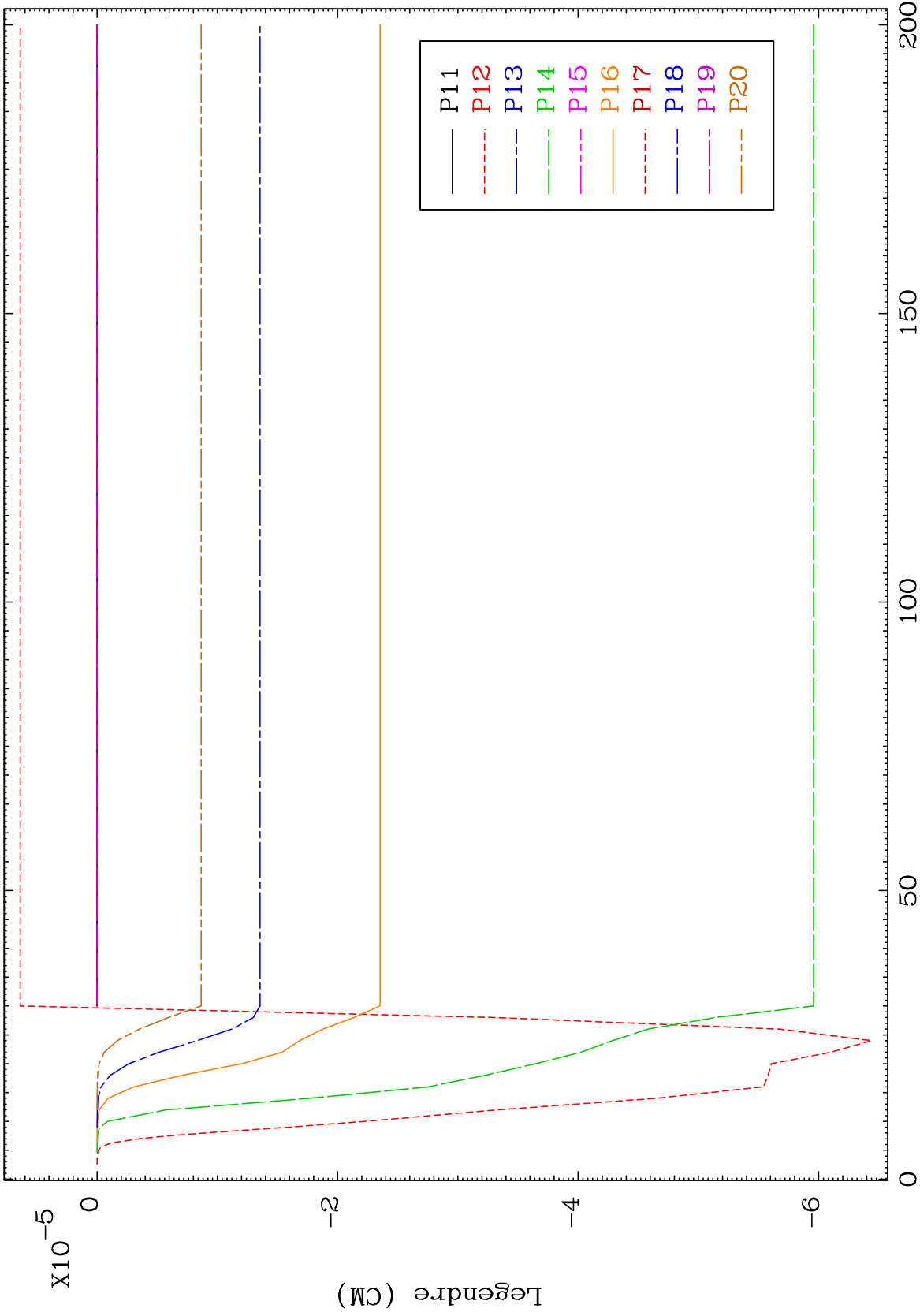


72 Incident Energy (MeV) 87-Fr-204

MAT 8701

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

87-Fr-204



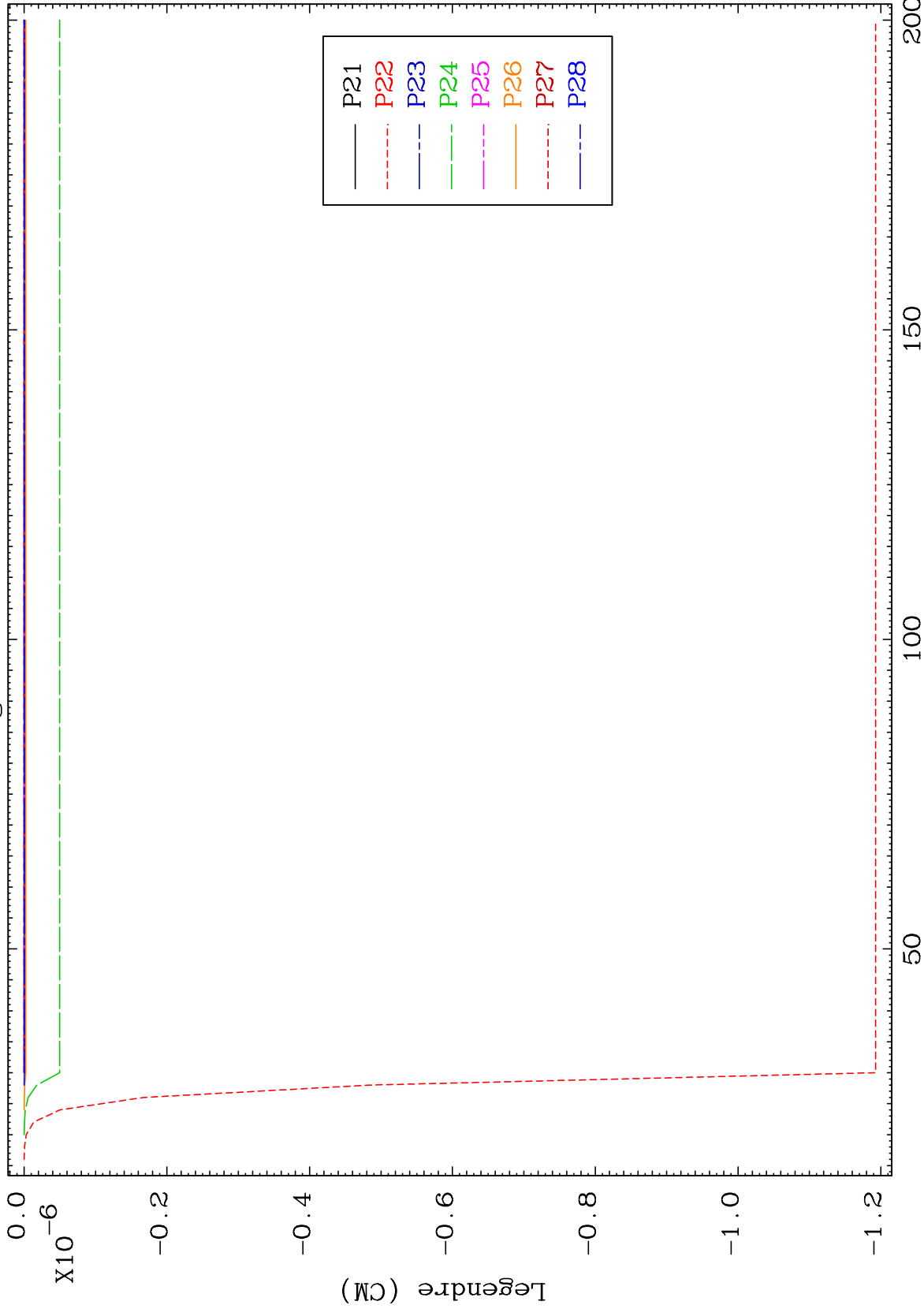
73

87-Fr-204

MAT 8701

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

87-Fr-204



87-Fr-204

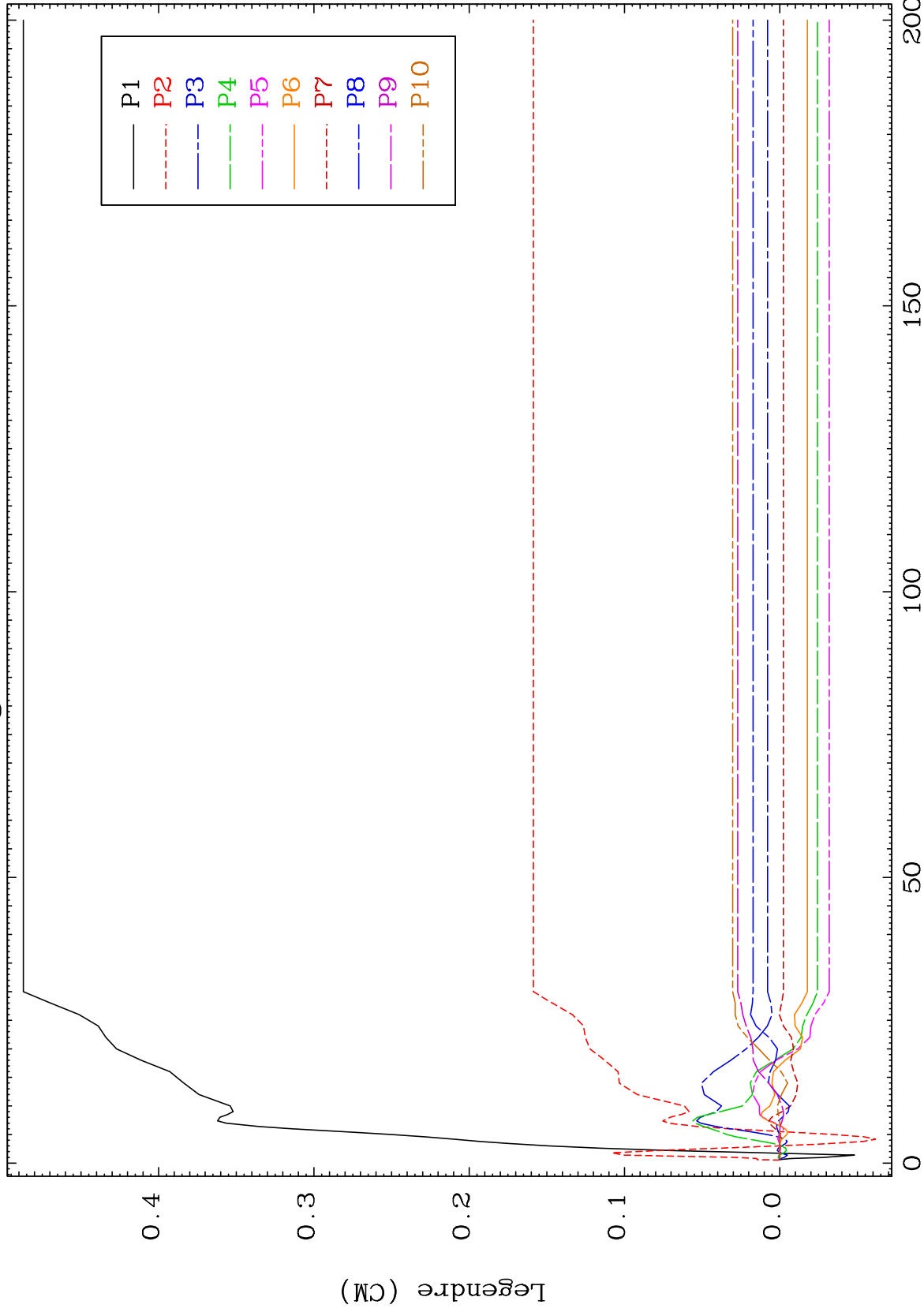
Incident Energy (MeV)

74

MAT 8701

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

87-Fr-204



75

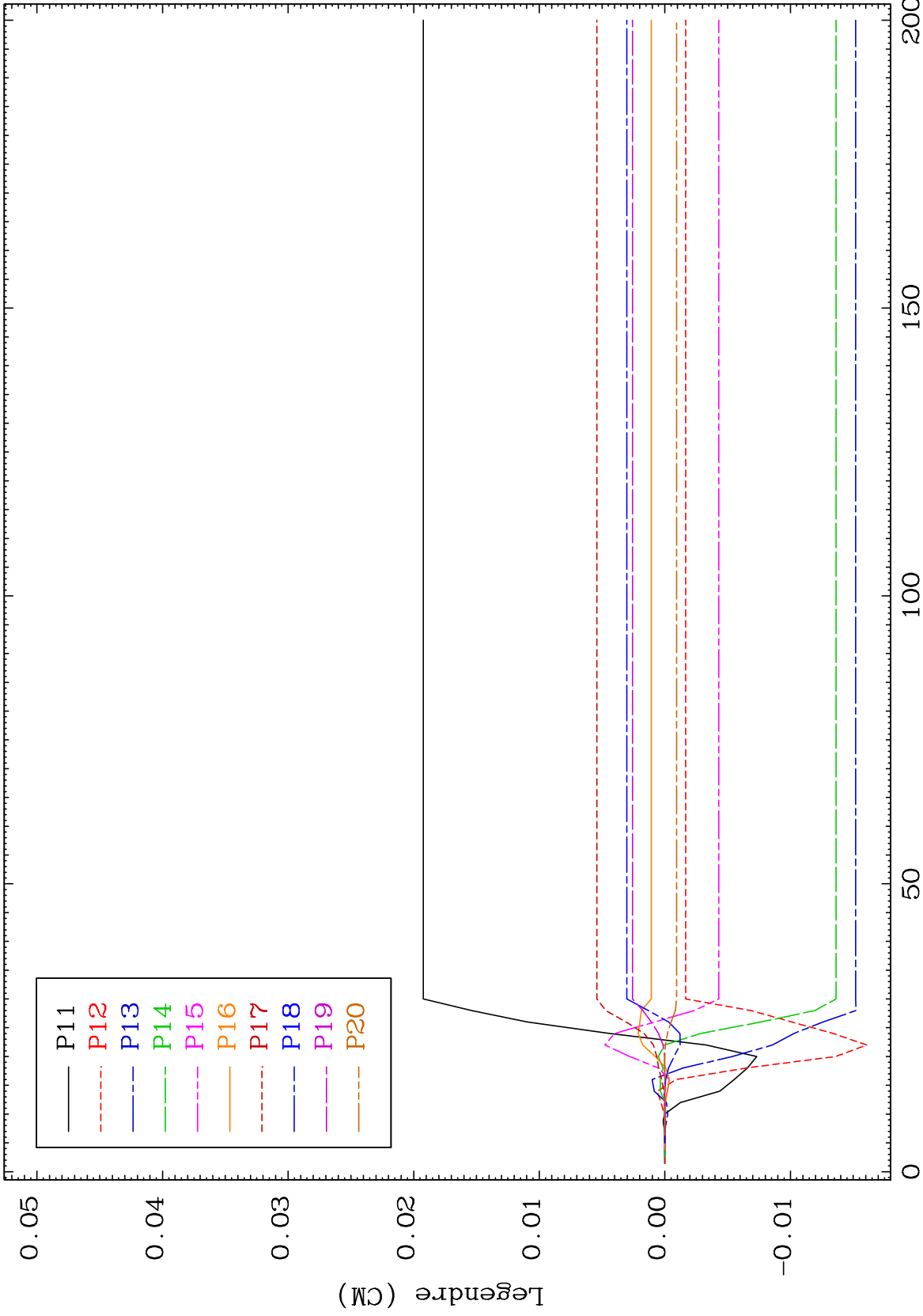
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



76

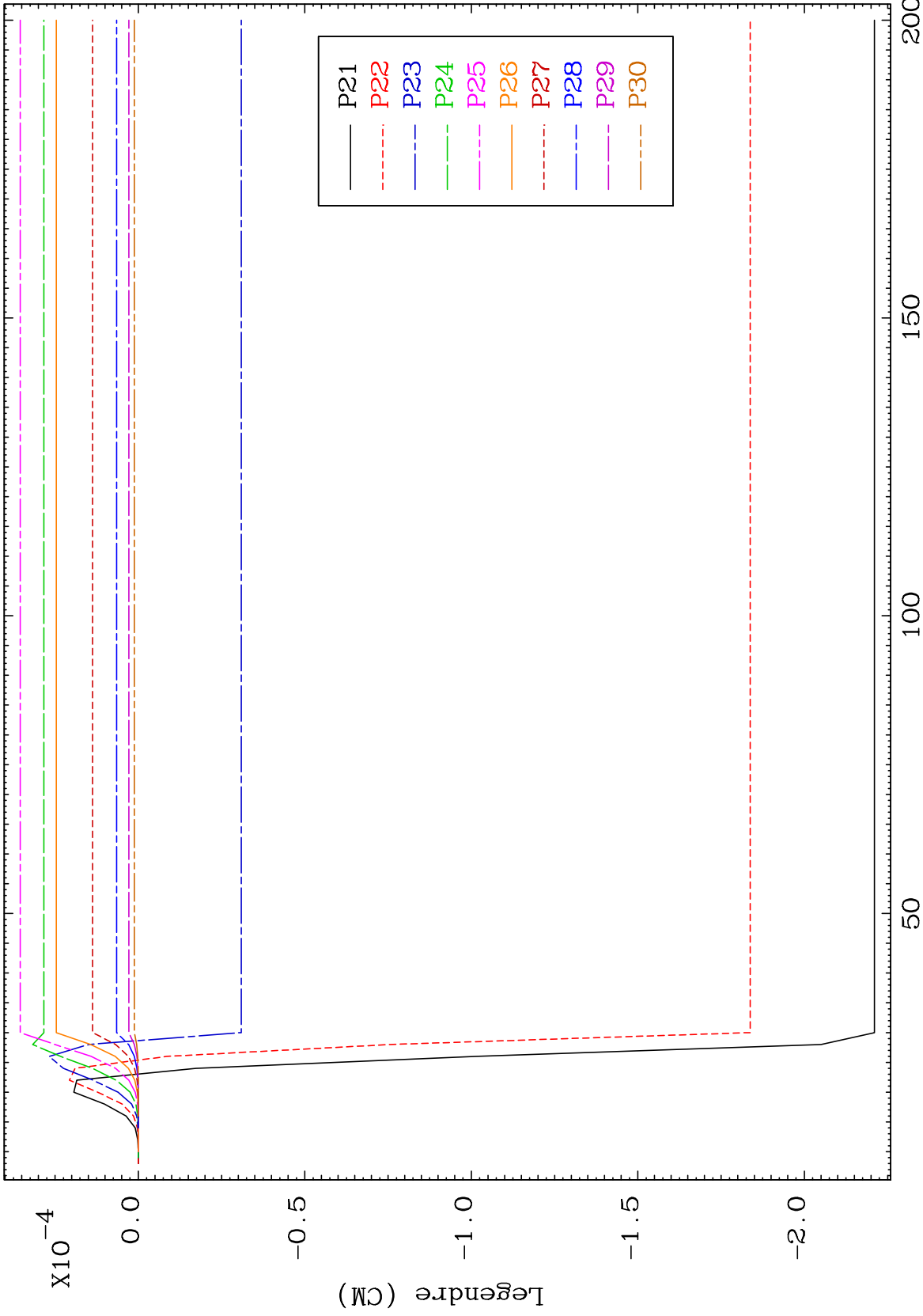
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



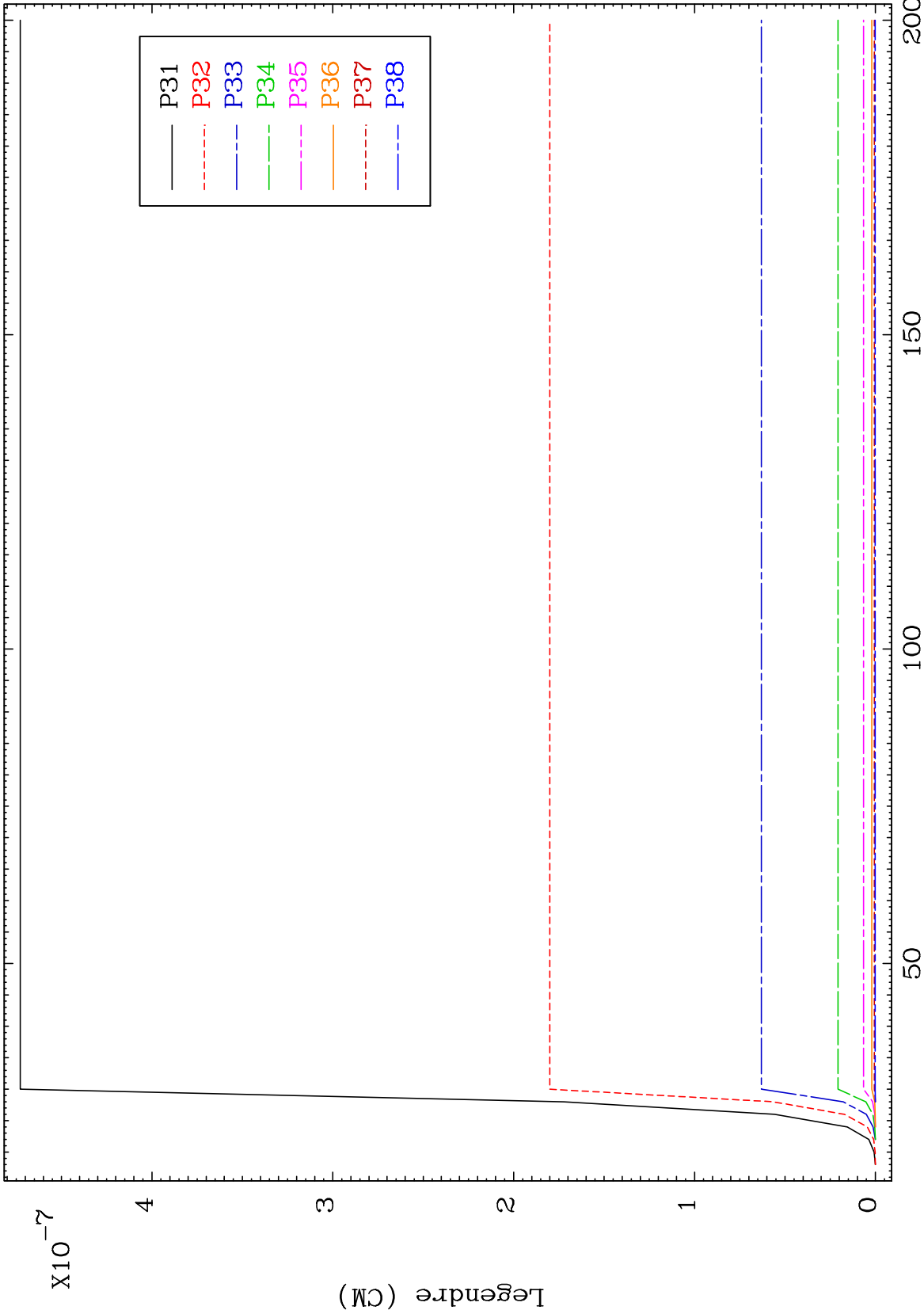
77

87-Fr-204

MAT 8701

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

87-Fr-204

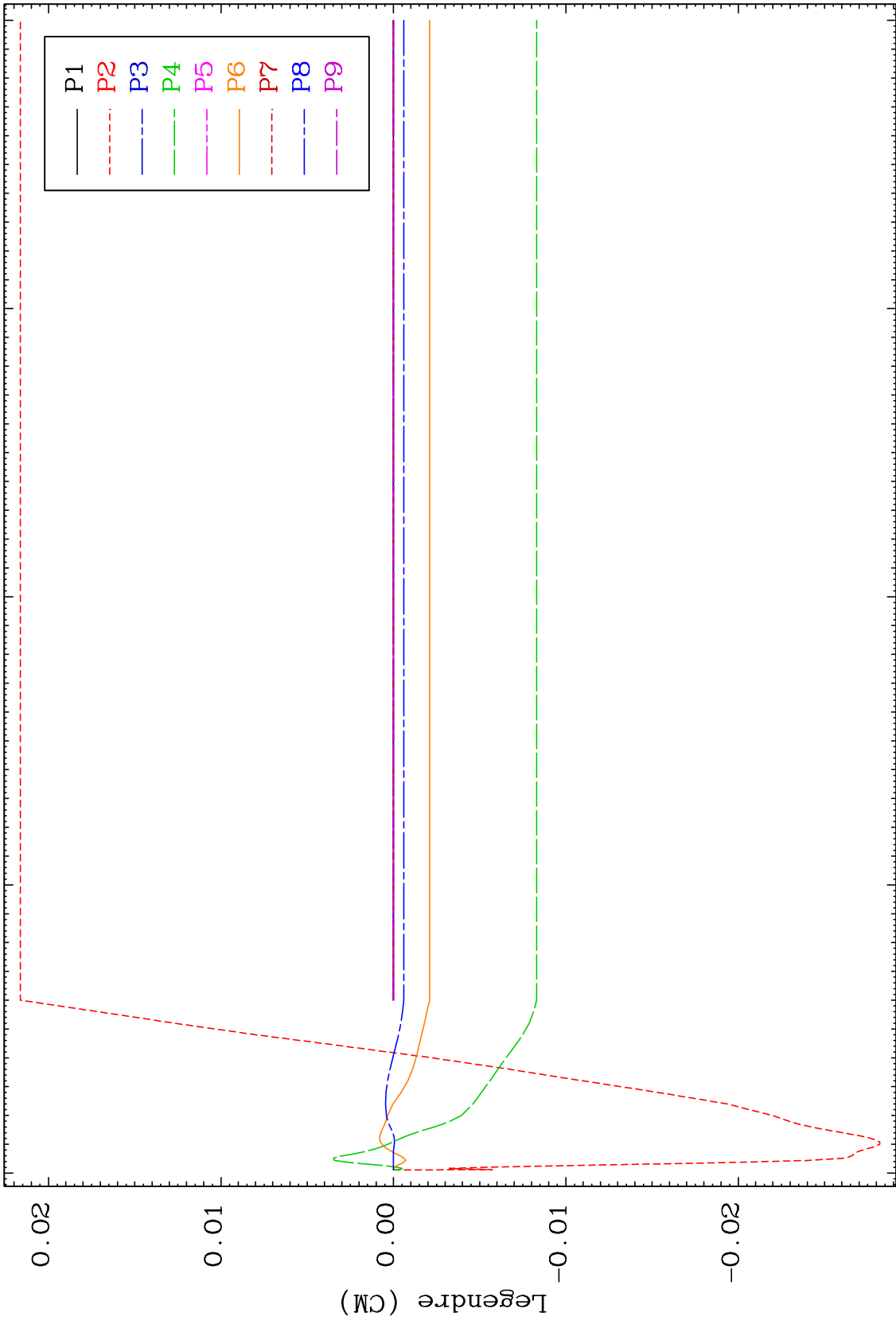


78

Incident Energy (MeV)

87-Fr-204

MAT 8701 MT= 68 (n,n') Level Legendre Coefficients 87-Fr-204

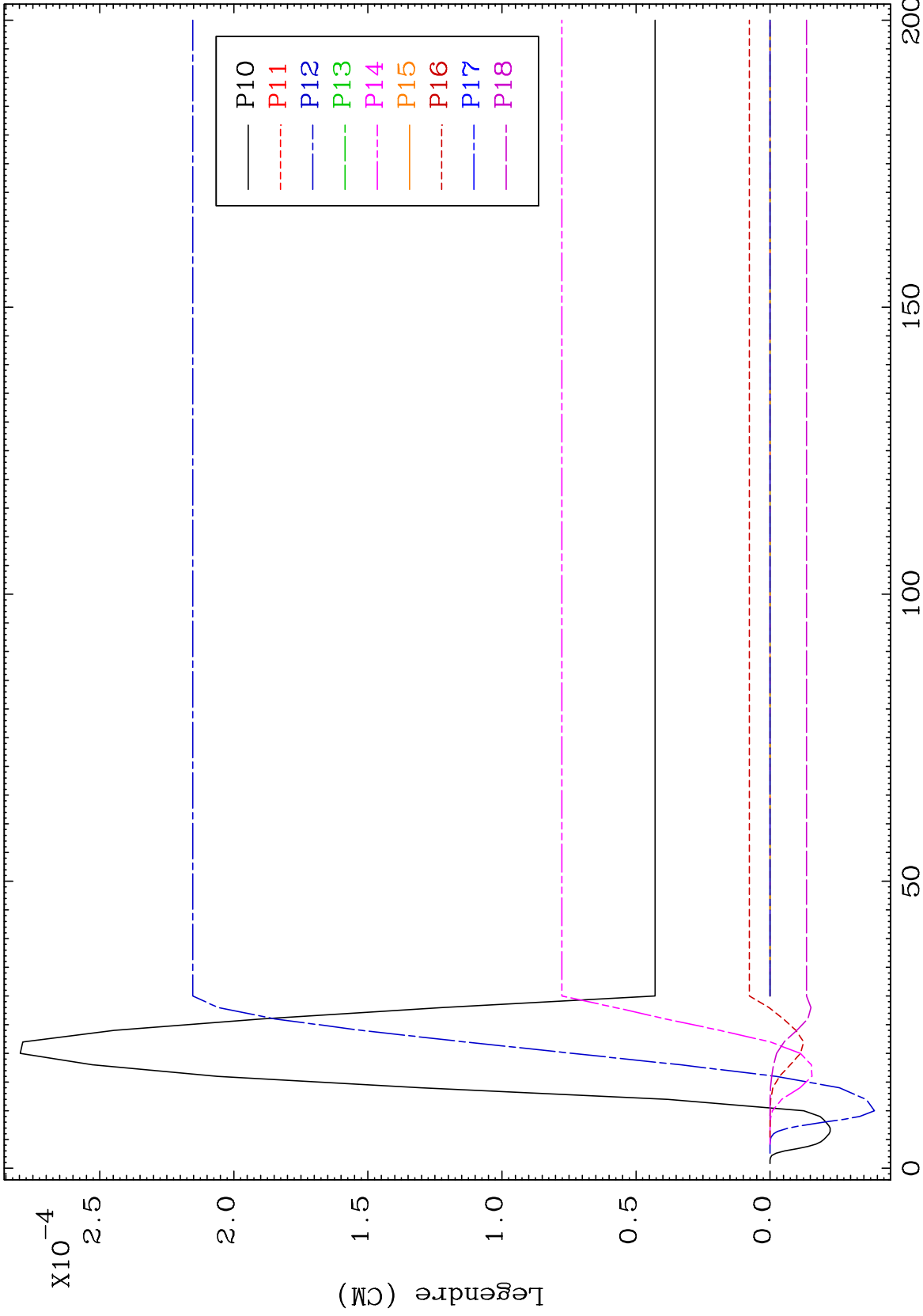


79 87-Fr-204

MAT 8701

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

87-Fr-204



80

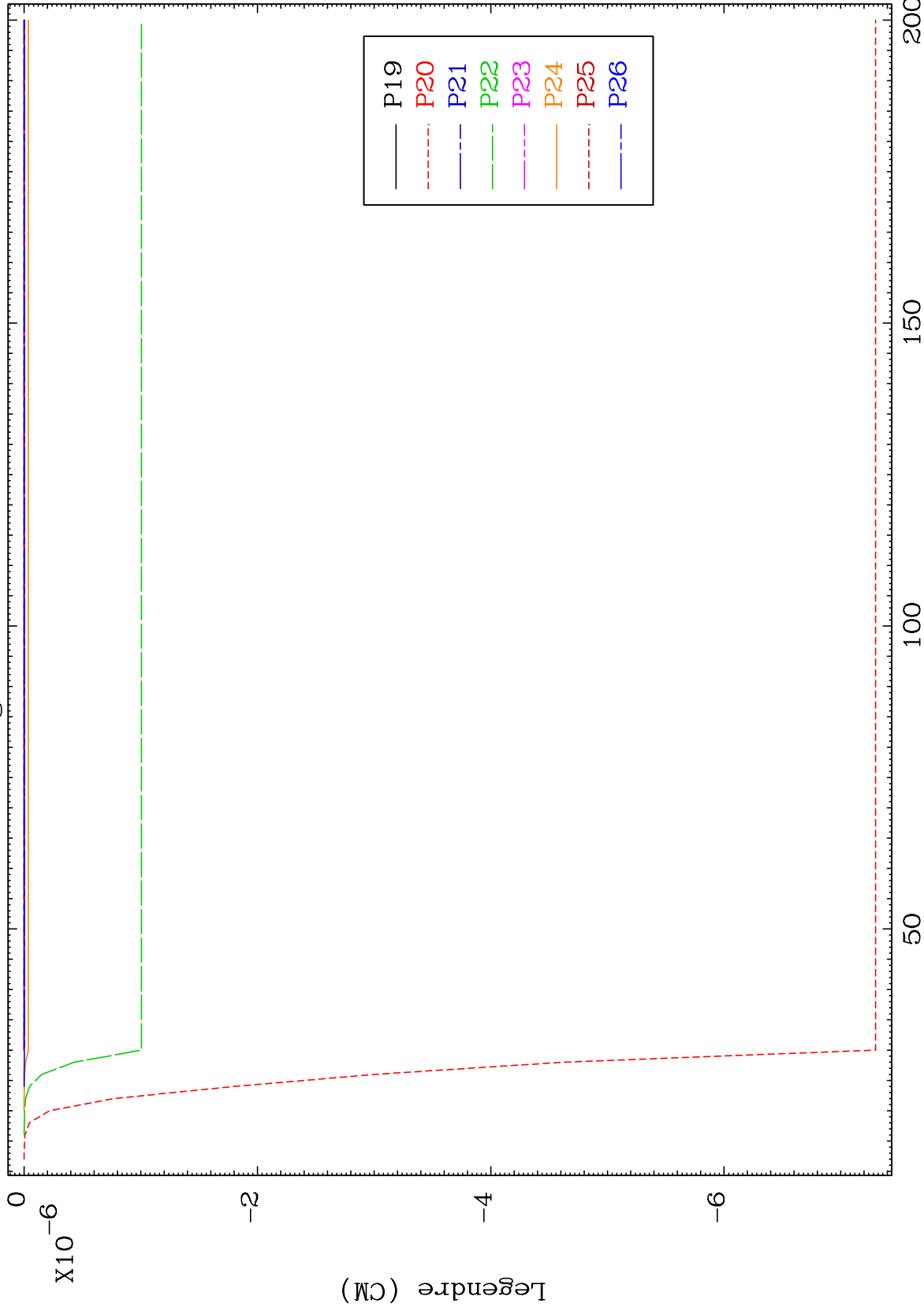
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



81

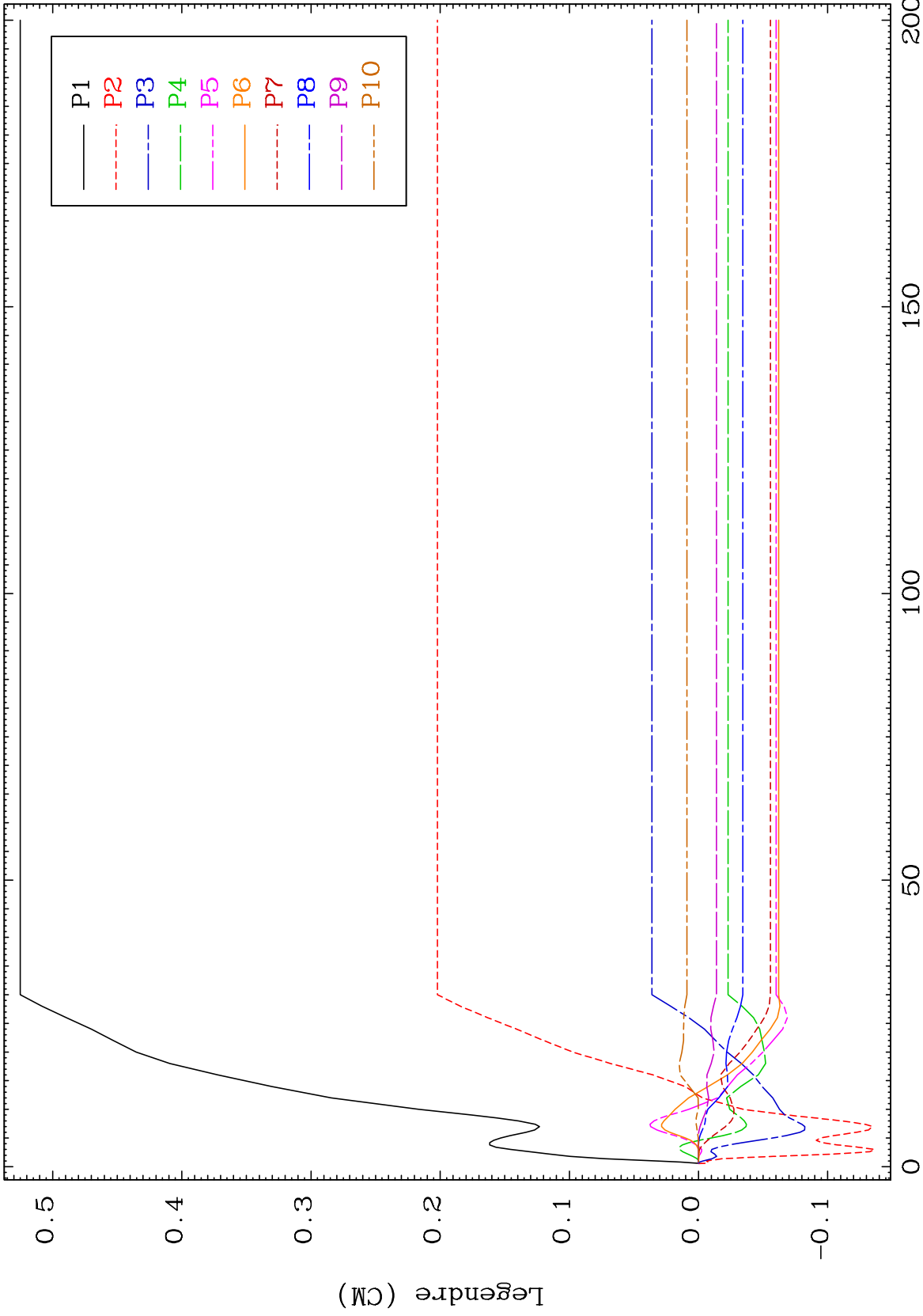
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



82

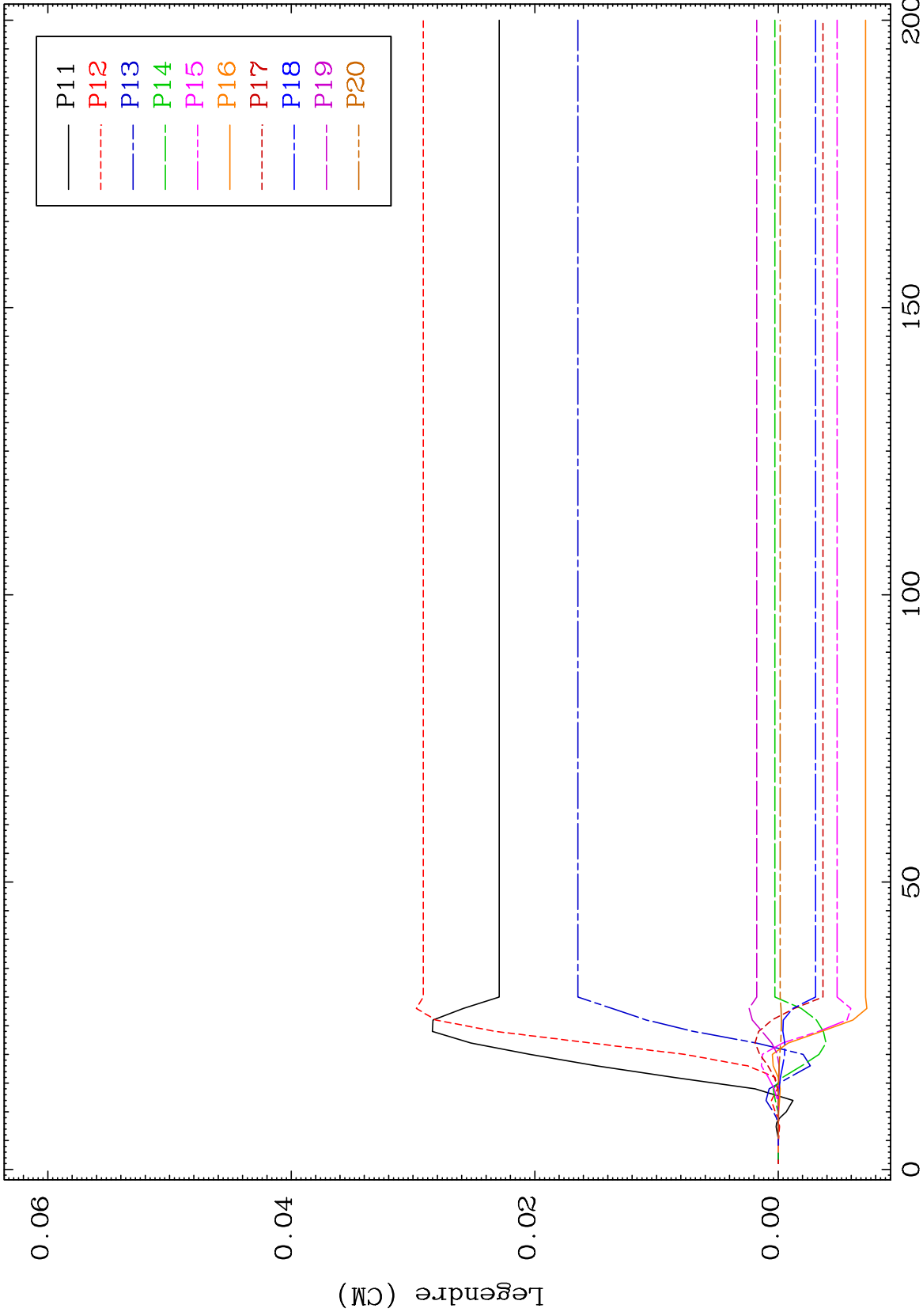
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



83

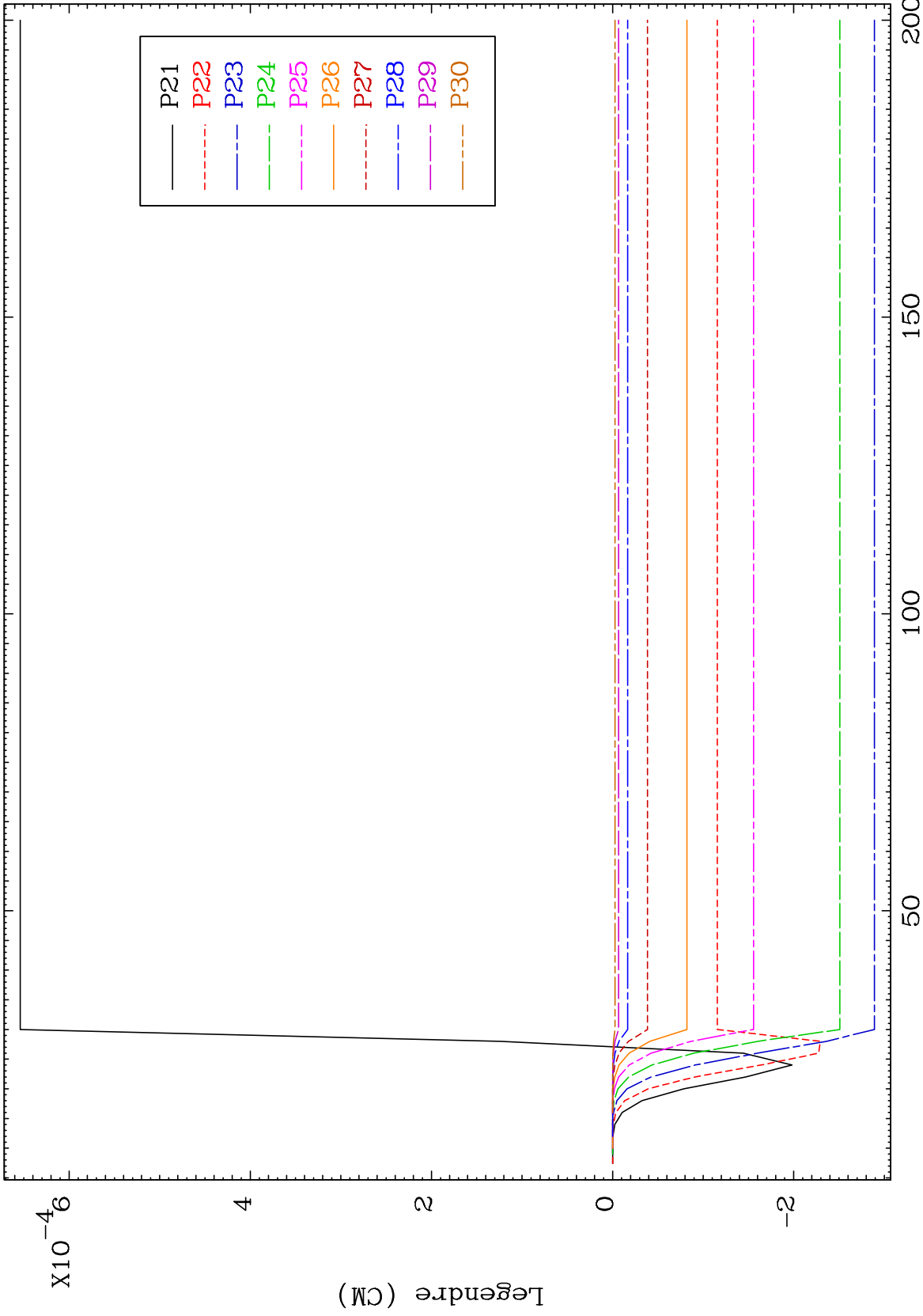
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



84

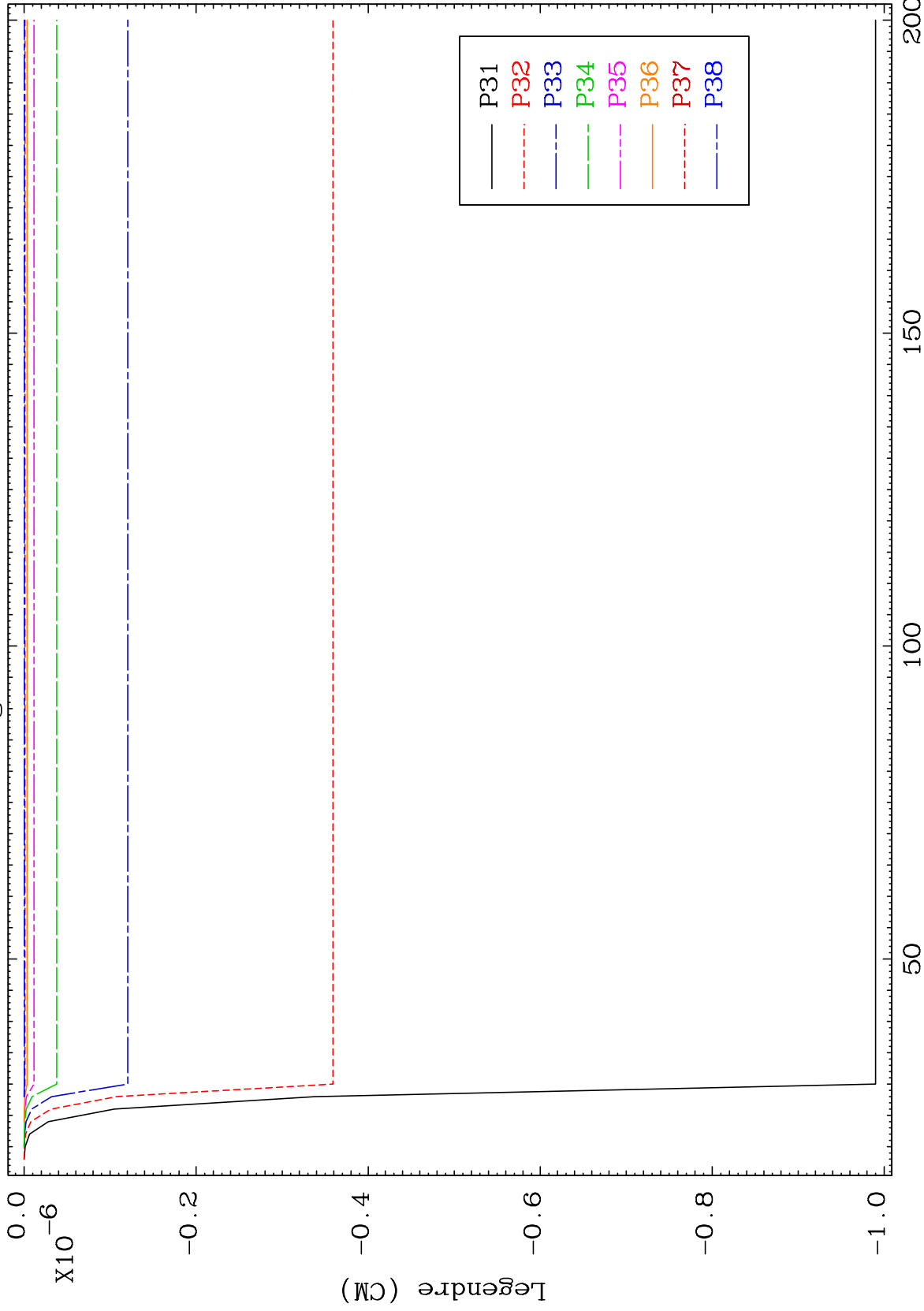
87-Fr-204

87-Fr-204

MAT 8701

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

87-Fr-204



85

87-Fr-204

50

100

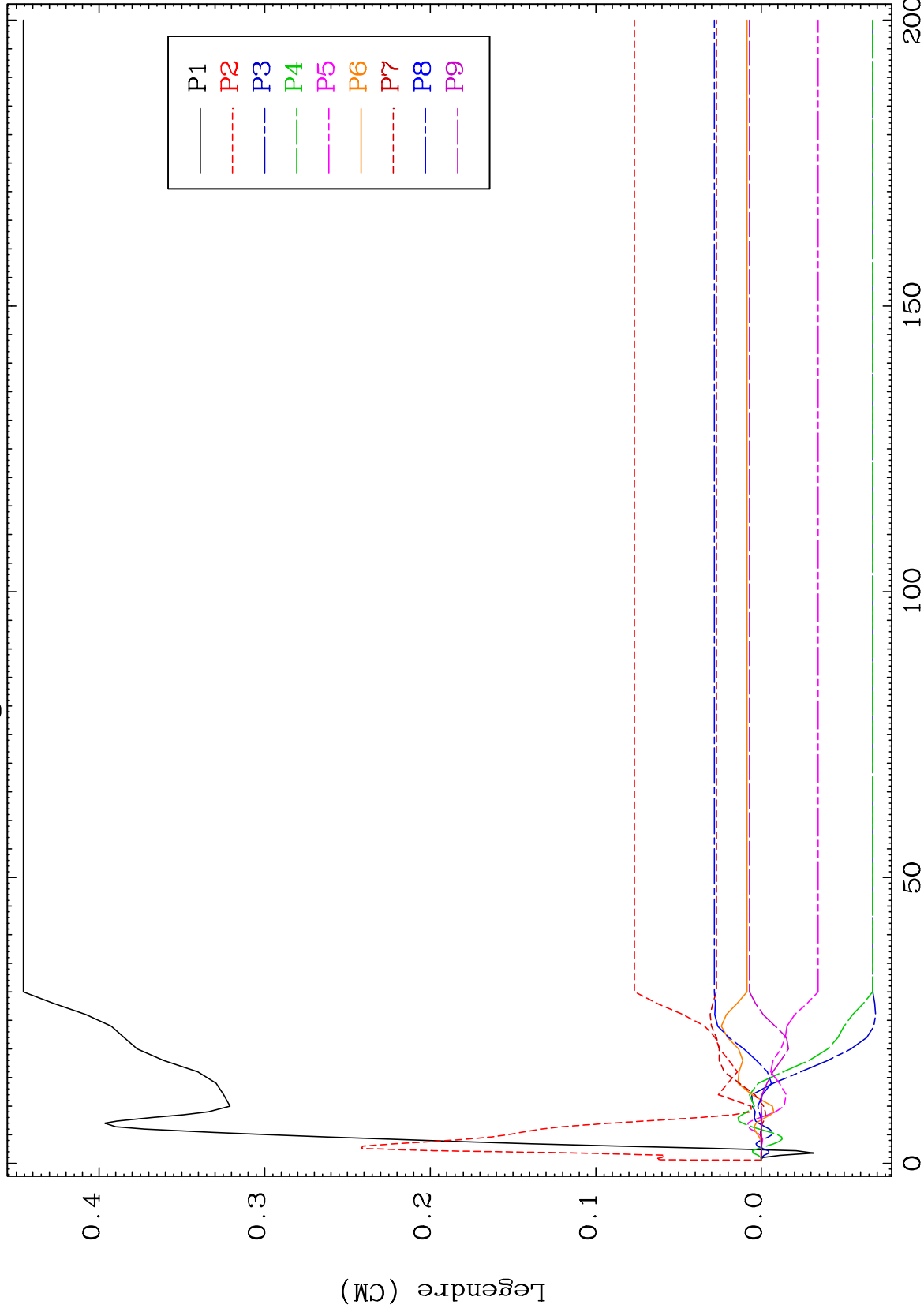
150

200

MAT 8701

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

87-Fr-204



86

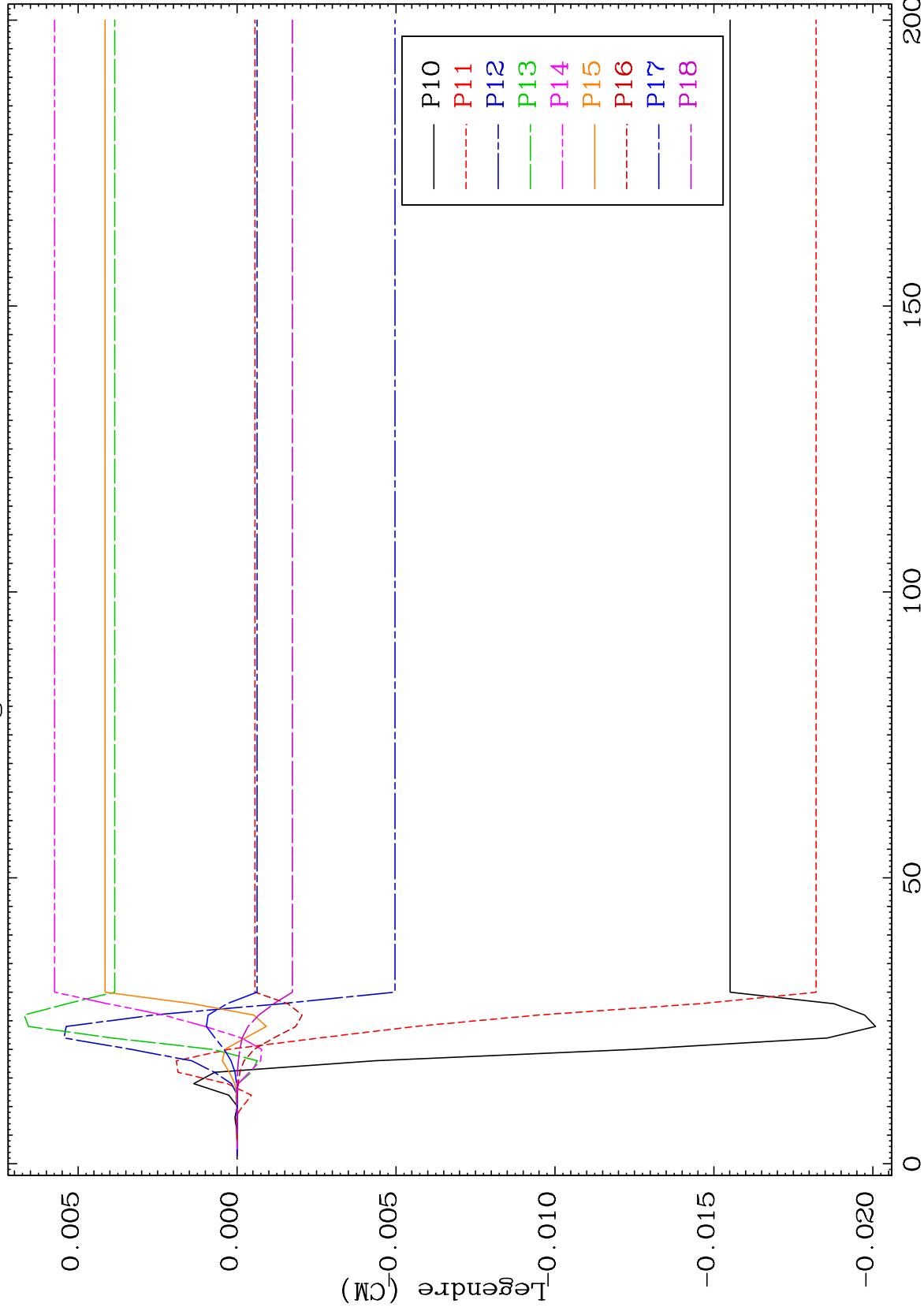
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



87

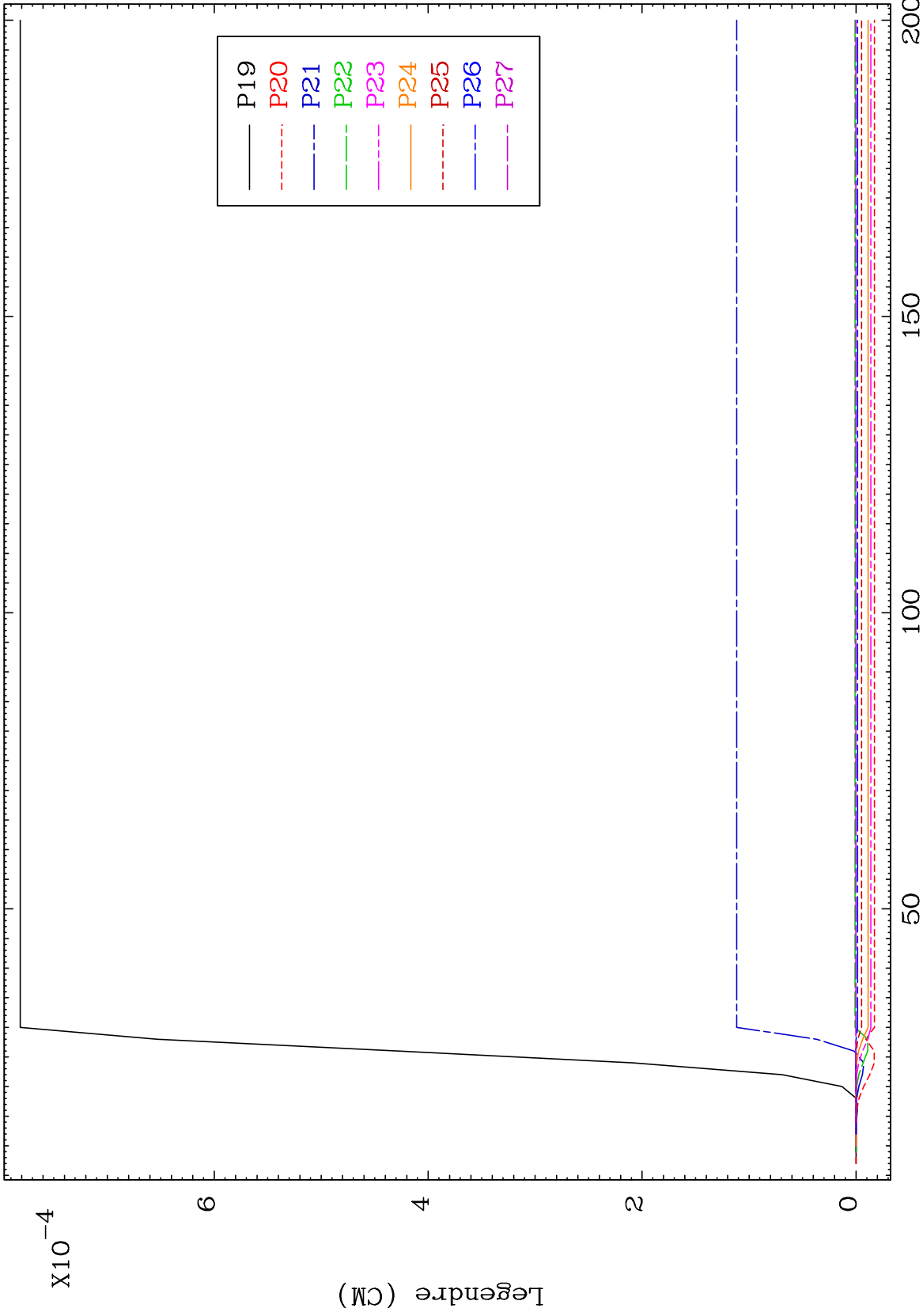
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



88

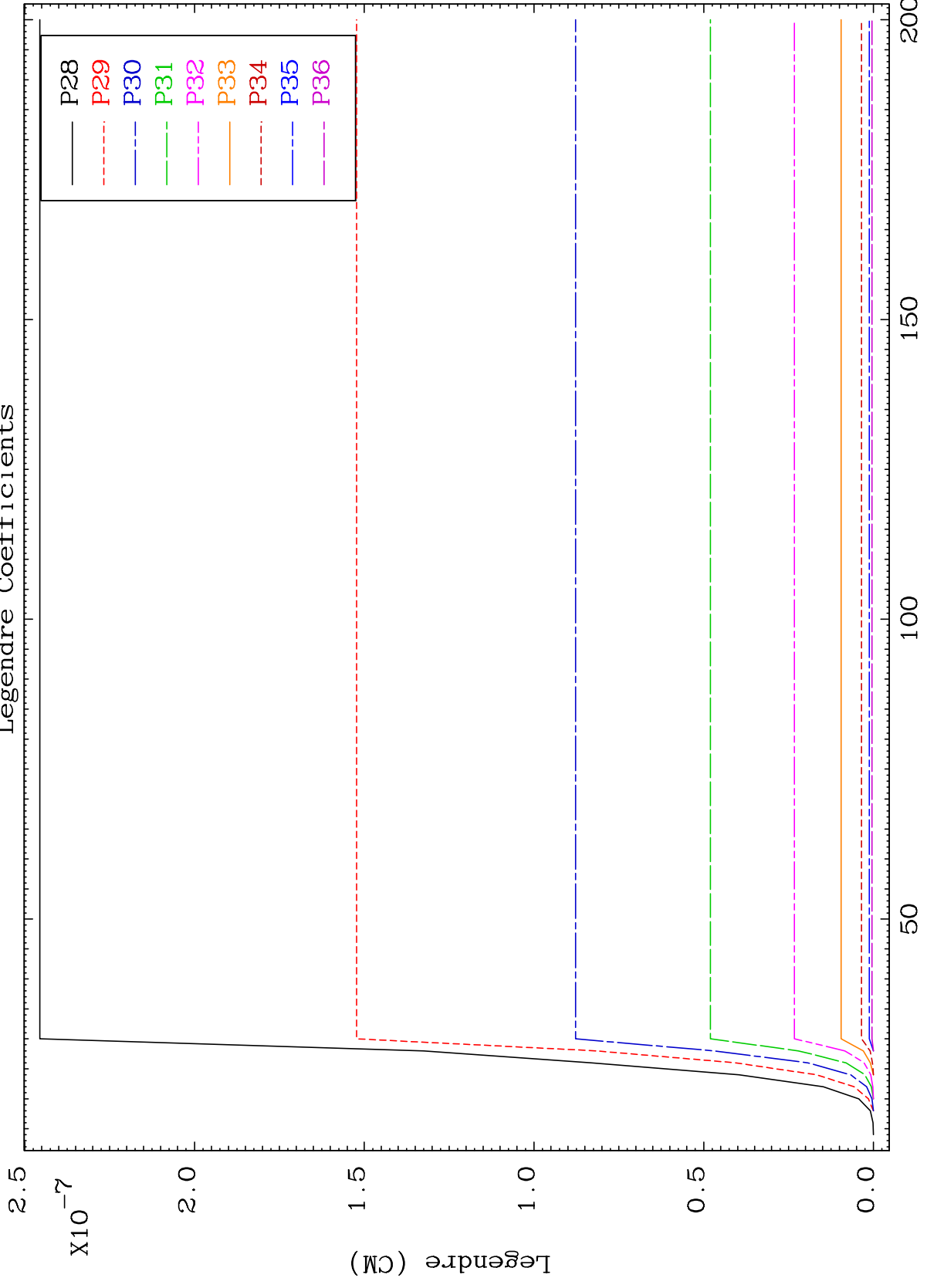
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



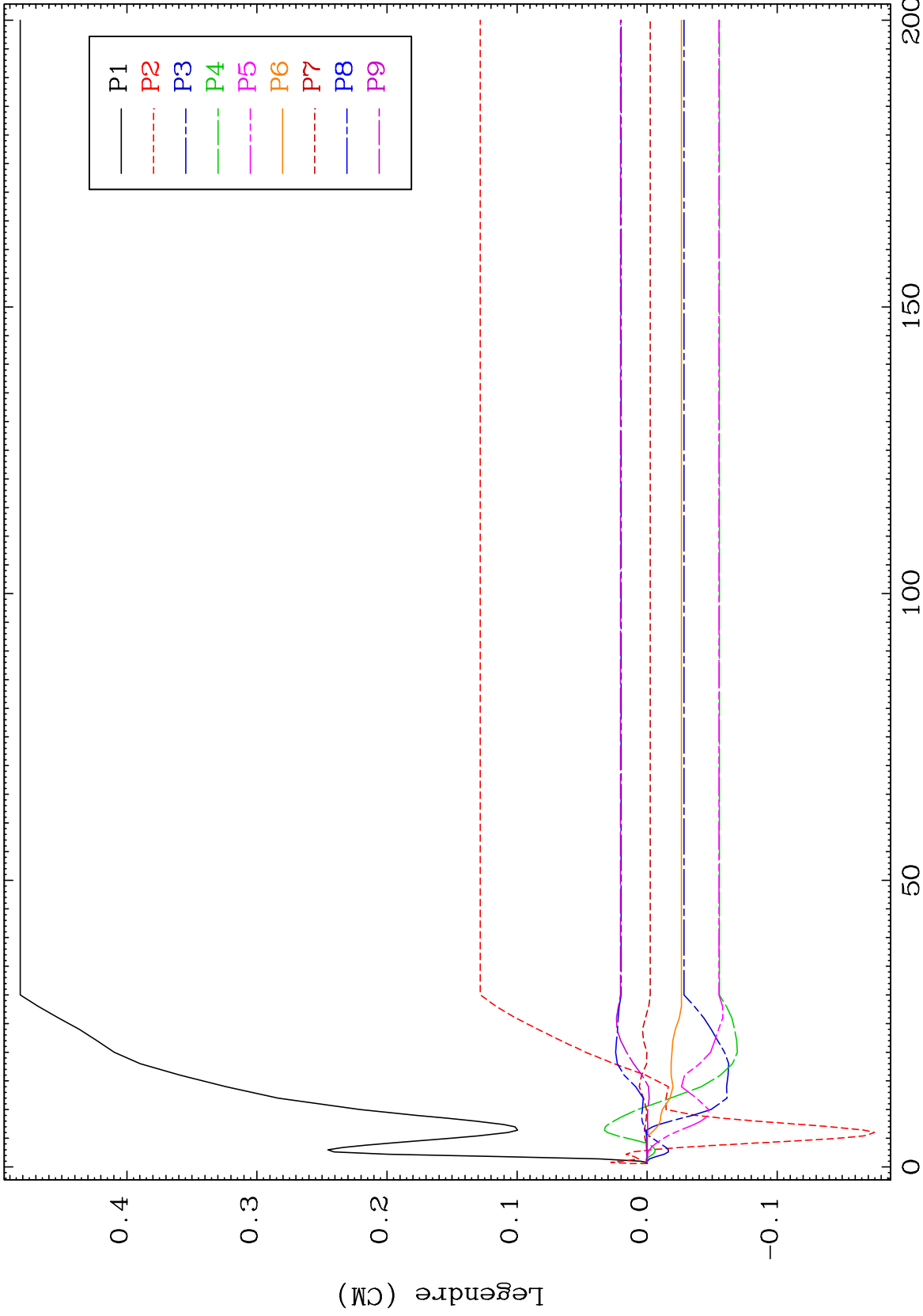
89

87-Fr-204

MAT 8701

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

87-Fr-204



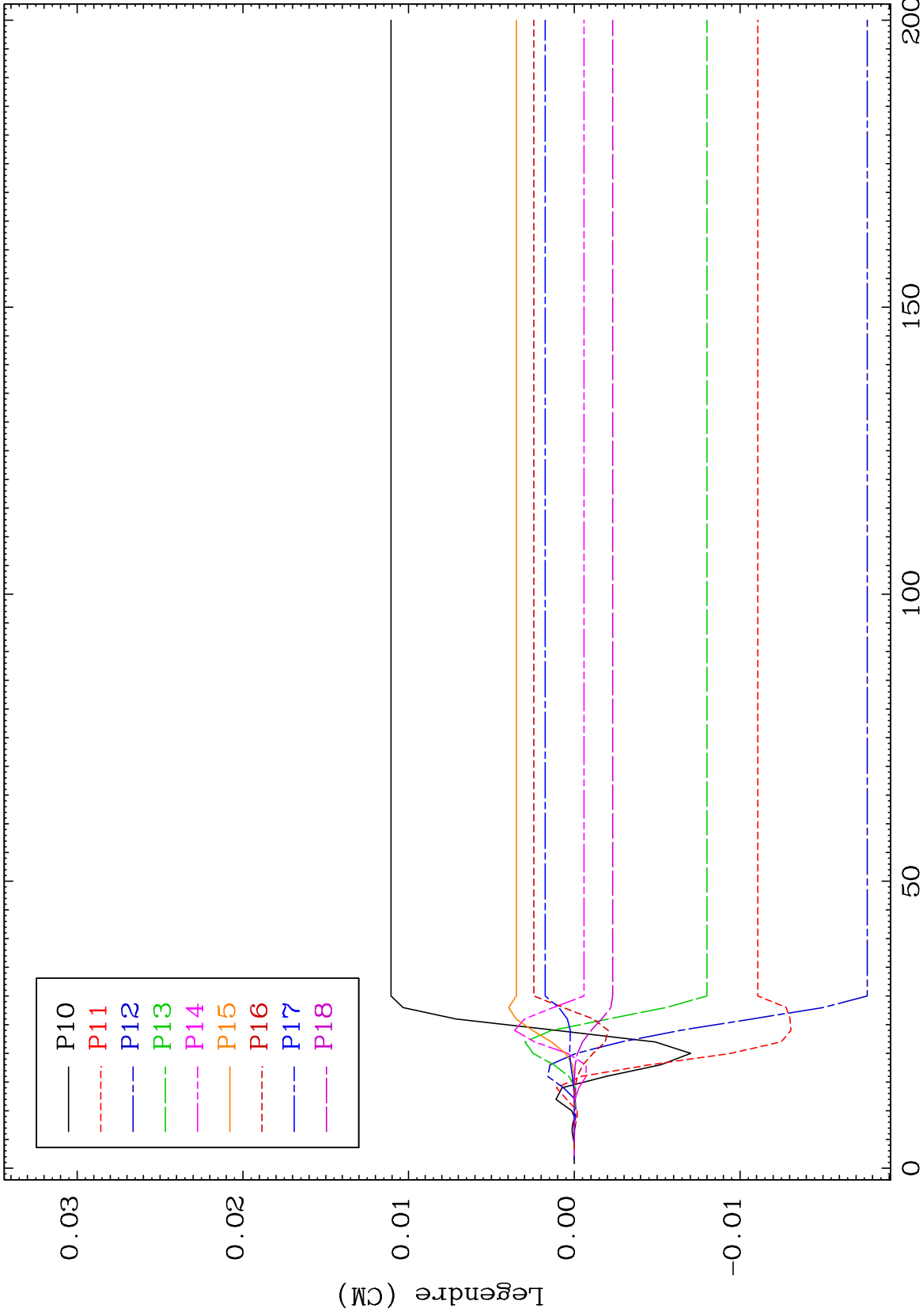
87-Fr-204

Incident Energy (MeV)

MAT 8701

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

87-Fr-204



91

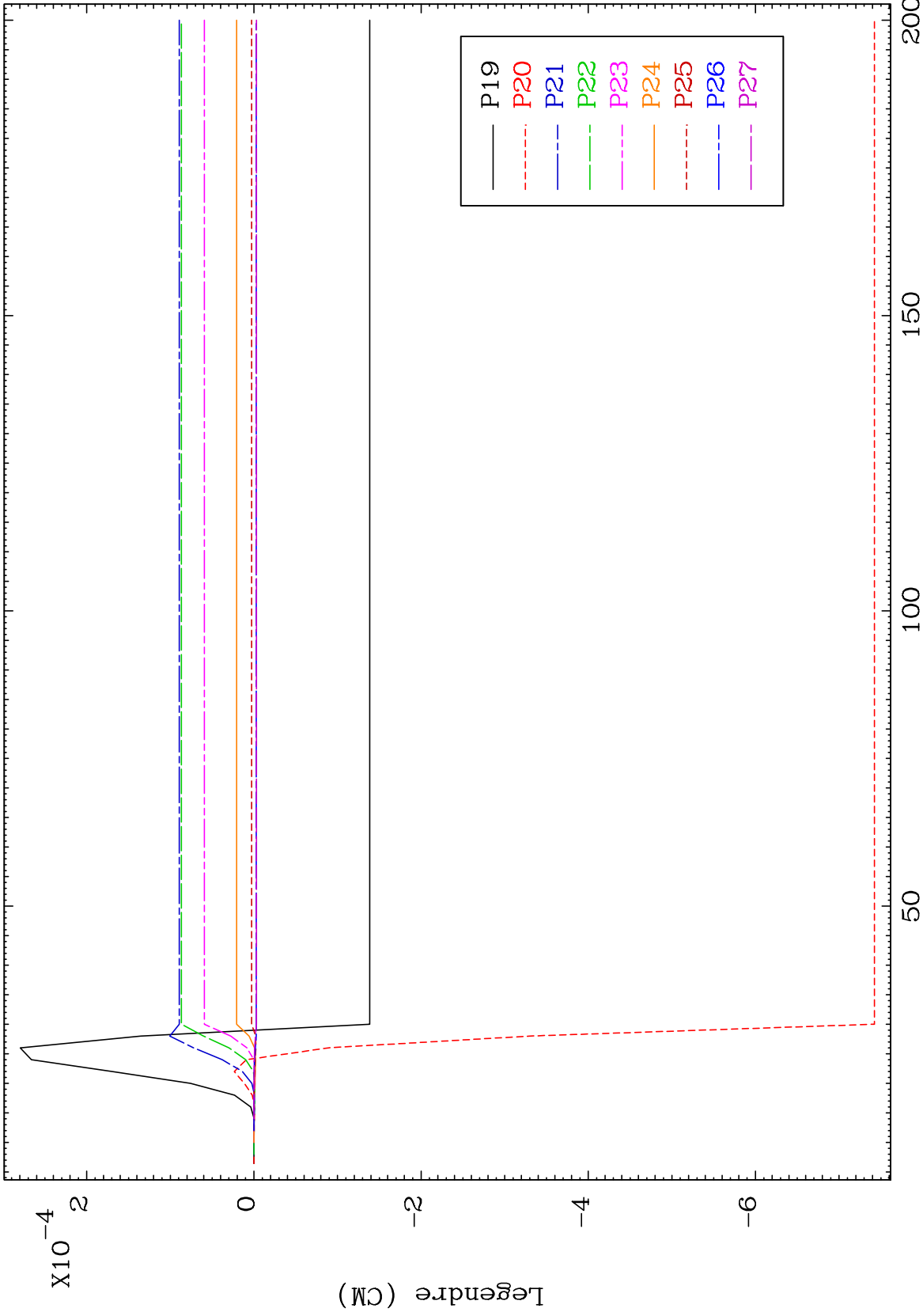
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



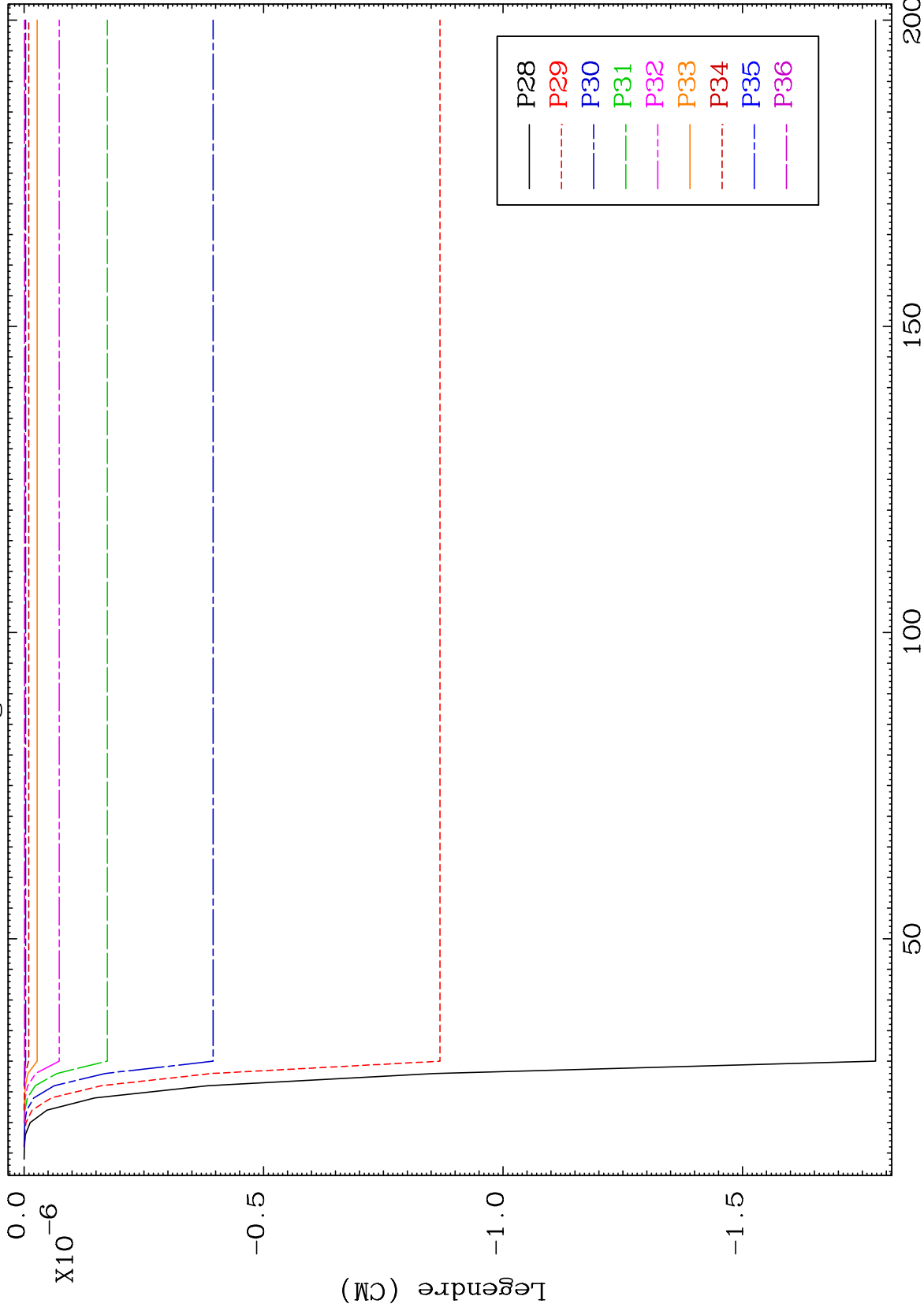
92

87-Fr-204

MAT 8701

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

87-Fr-204



87-Fr-204

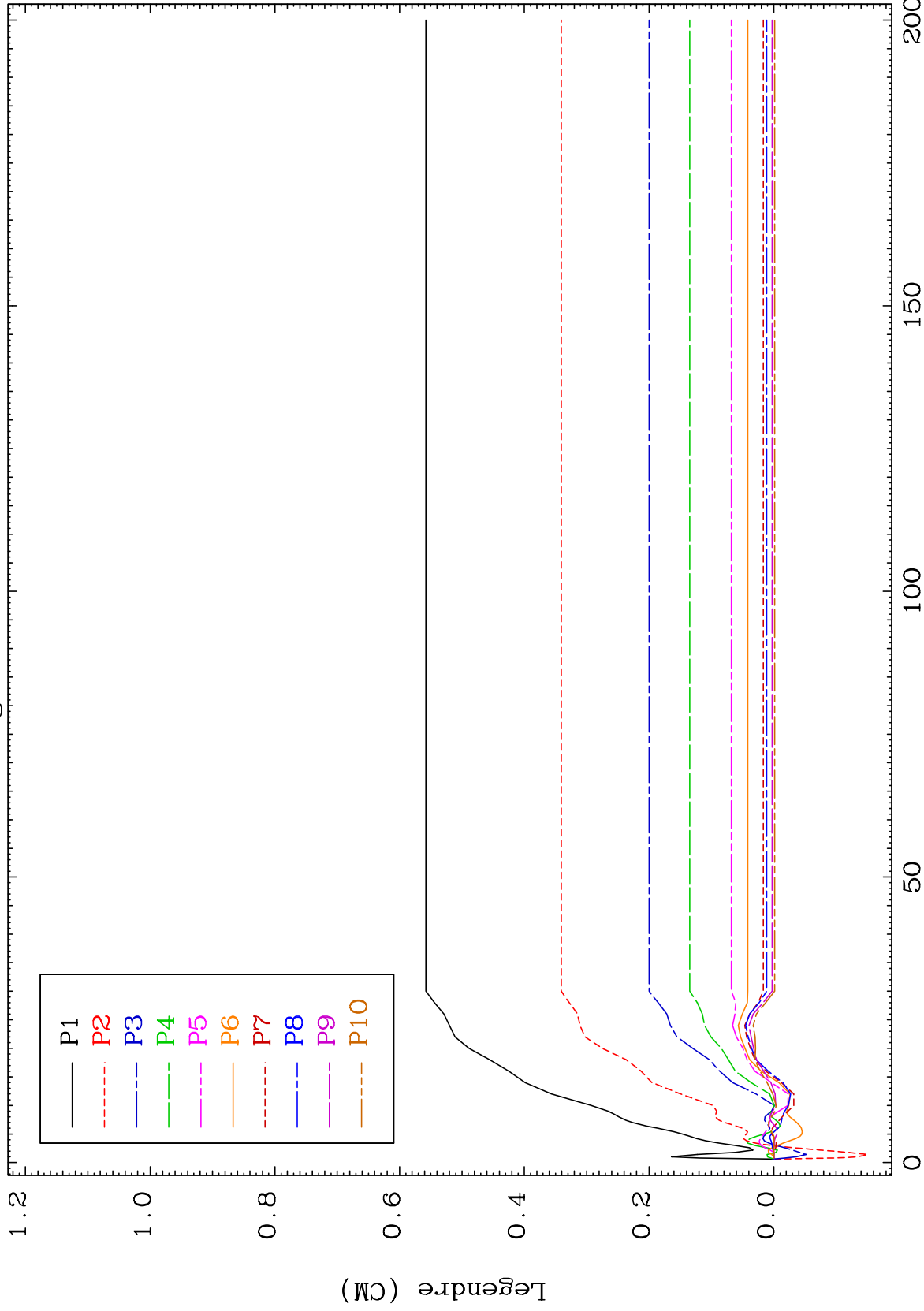
Incident Energy (MeV)

93

MAT 8701

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

87-Fr-204



94

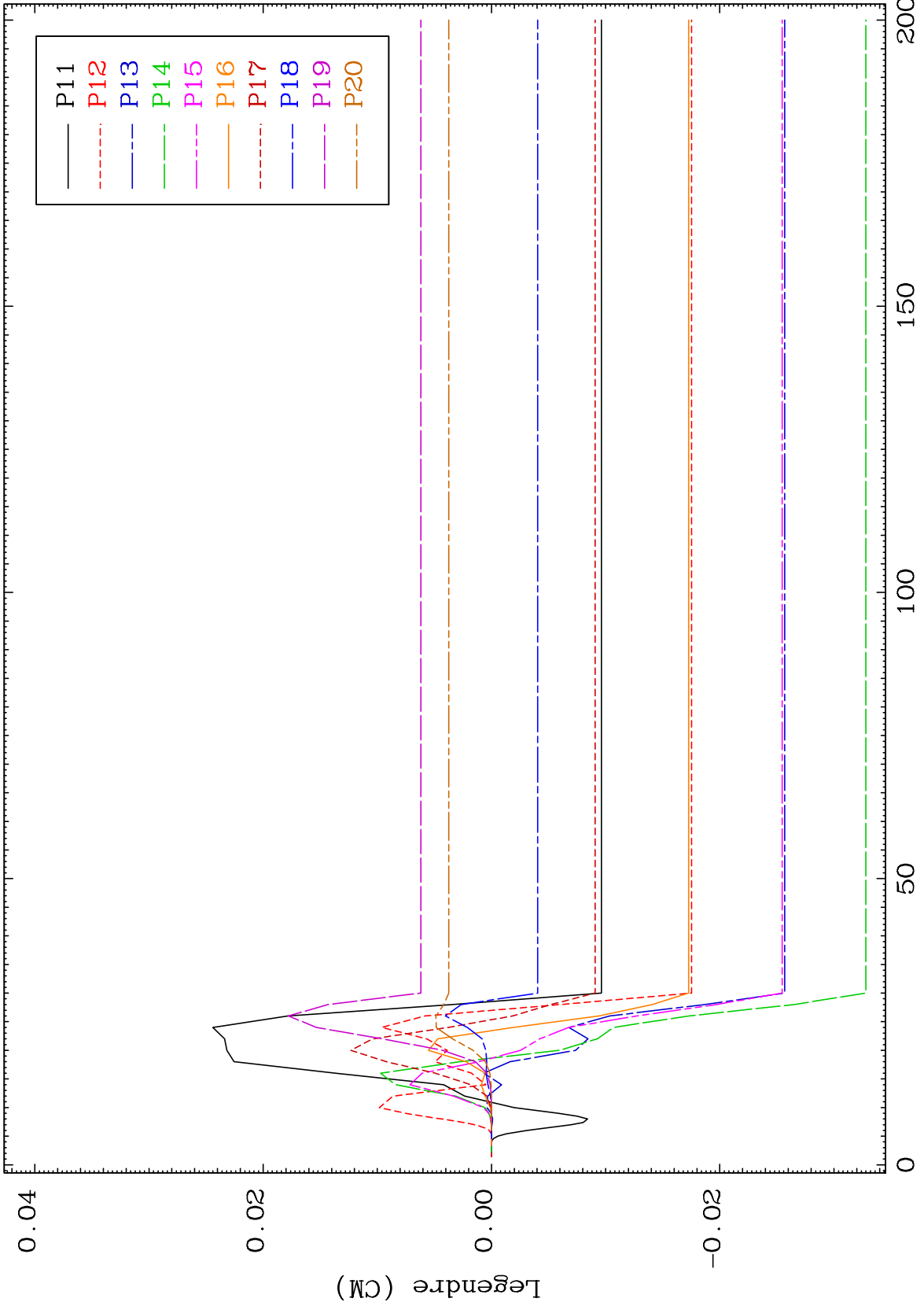
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



87-Fr-204

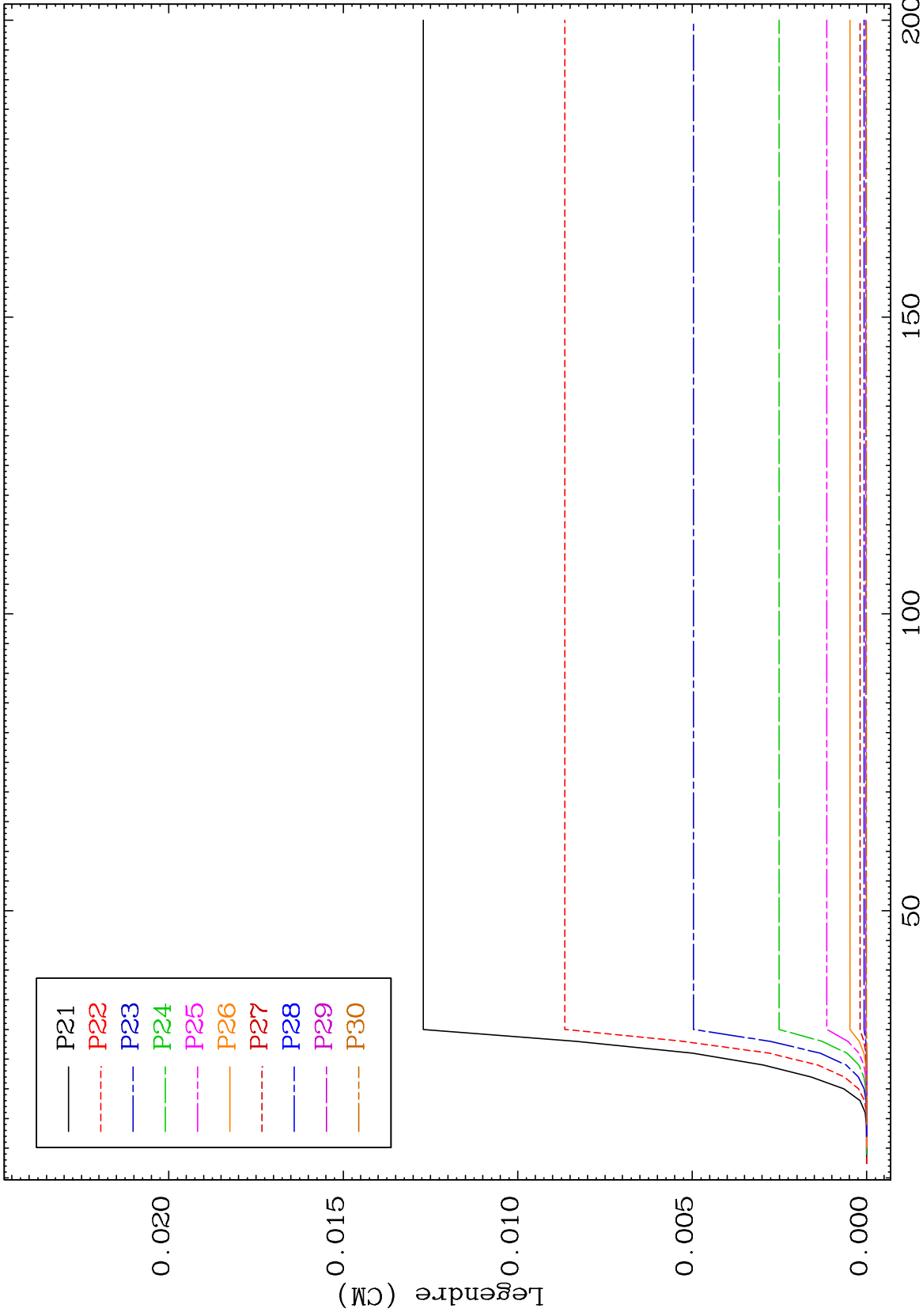
Incident Energy (MeV)

95

MAT 8701

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

87-Fr-204



96

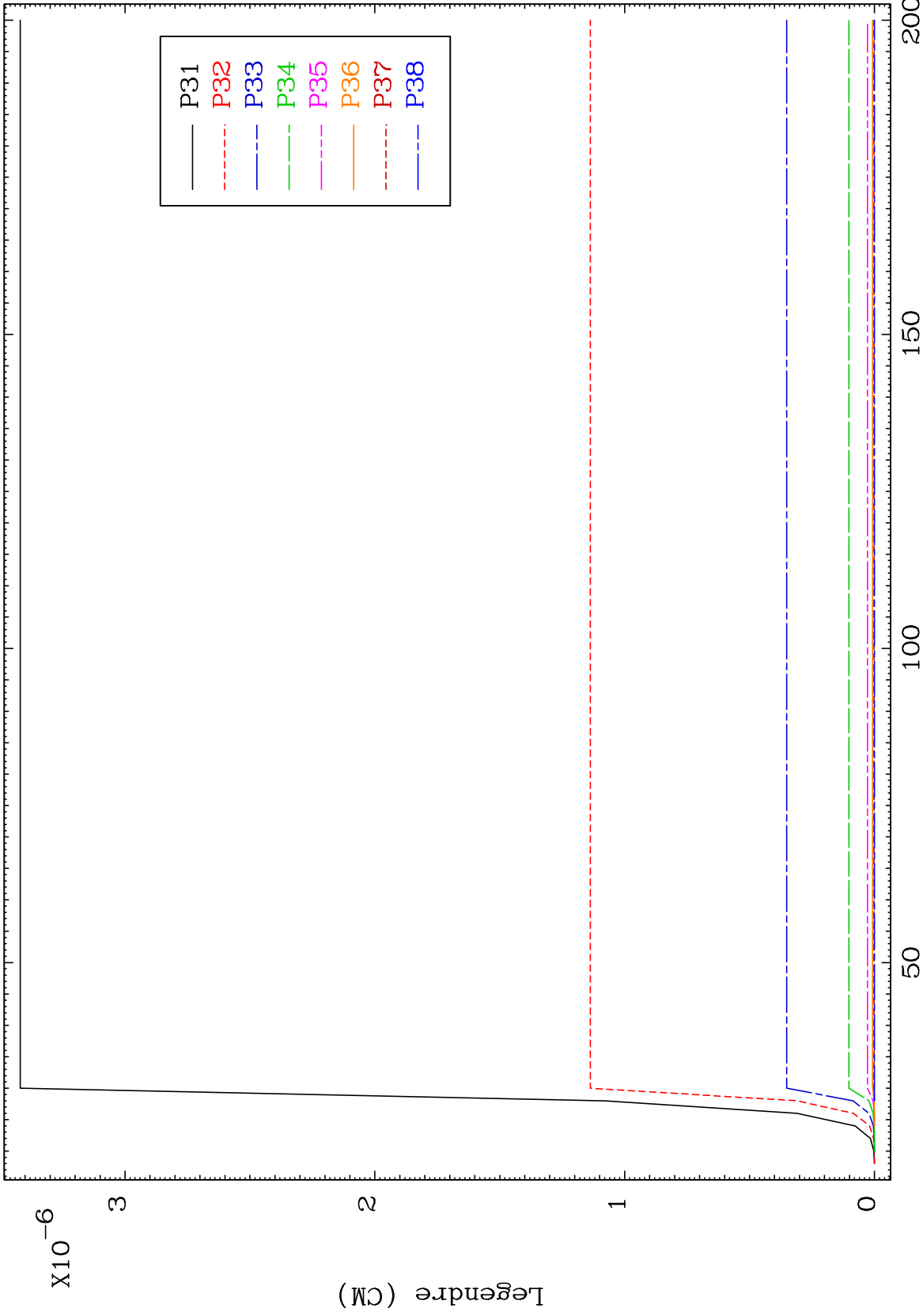
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



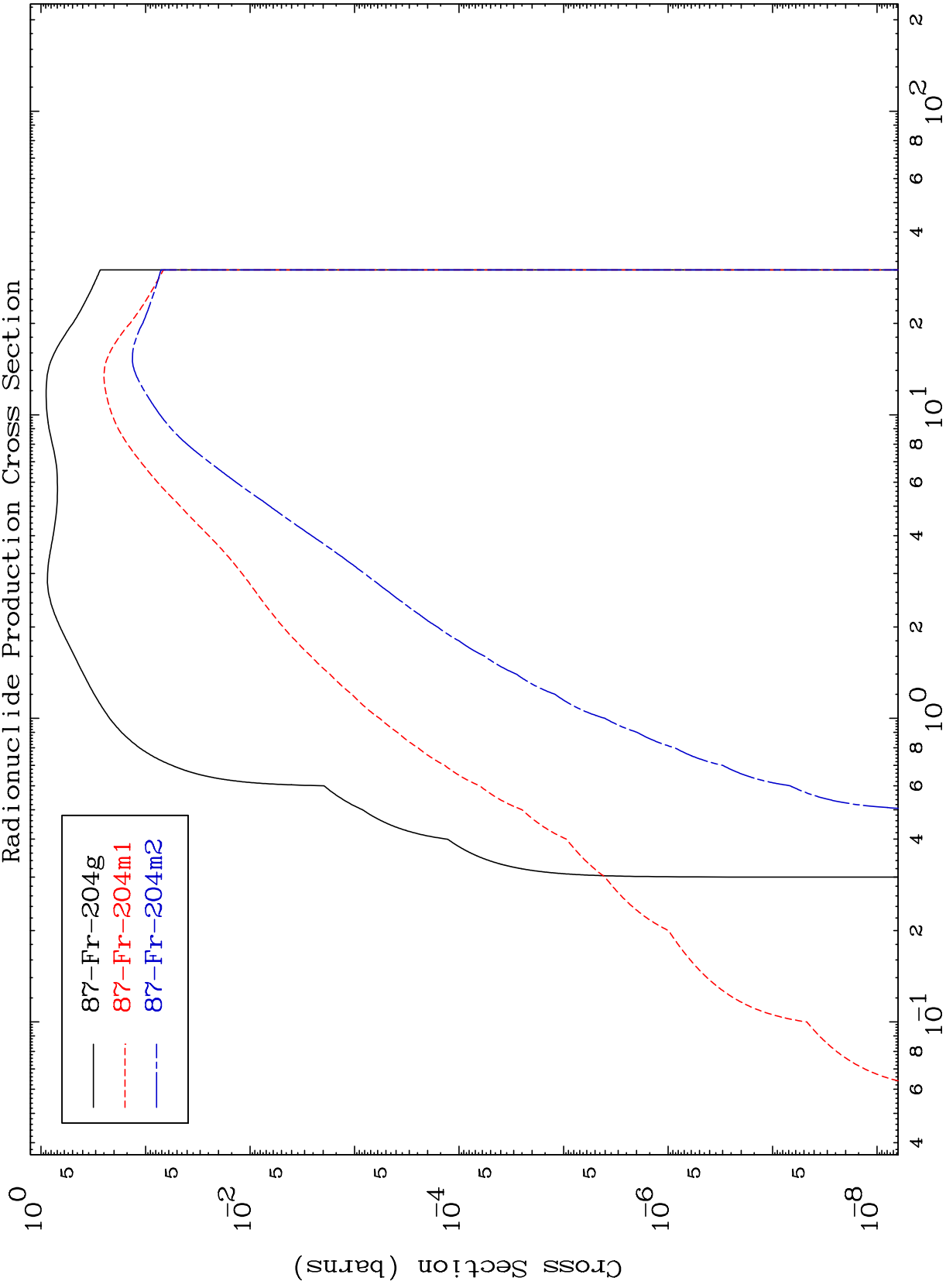
97

87-Fr-204

MAT 8701

87-Fr-204

Inelastic
Radionuclide Production Cross Section



98

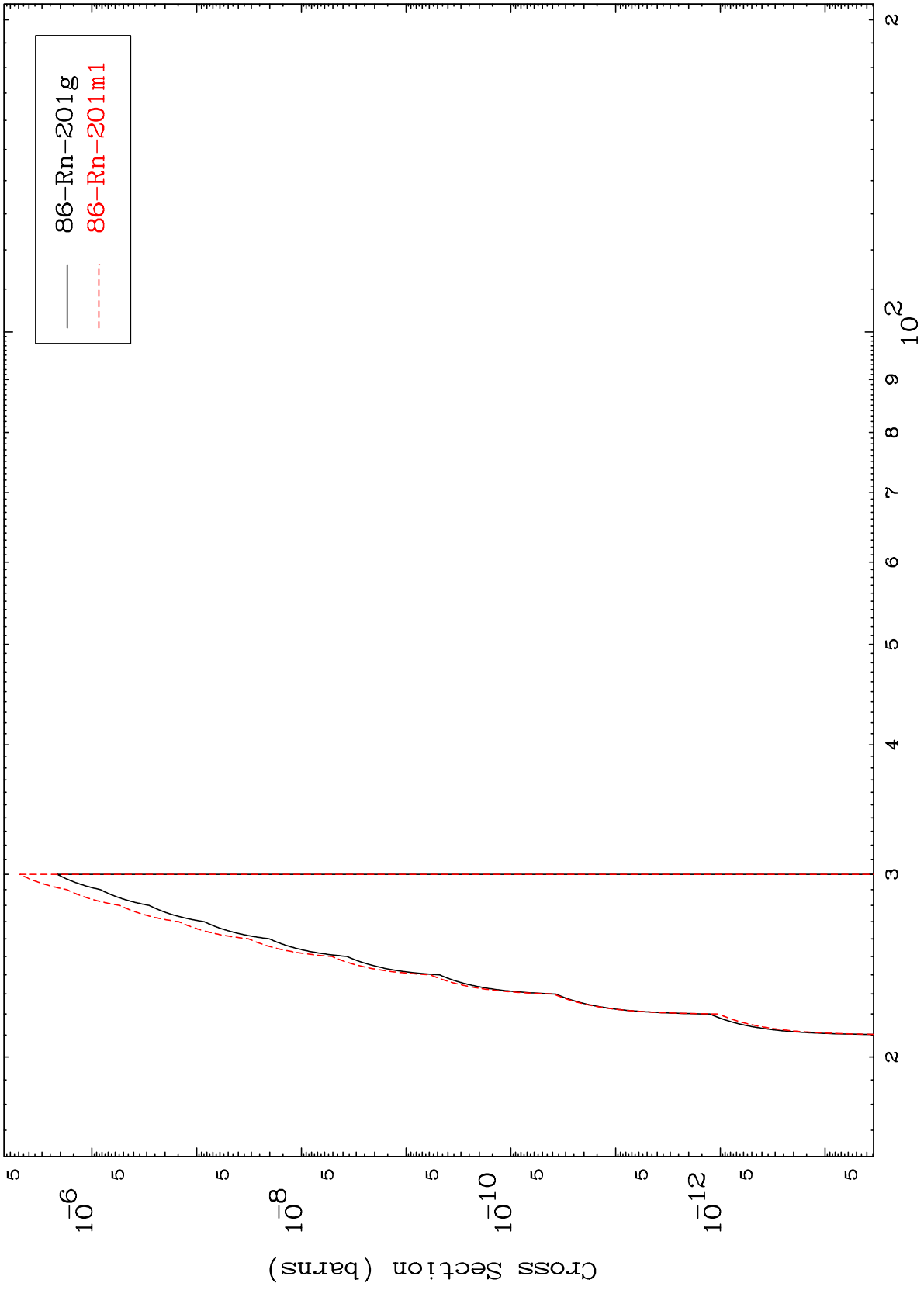
87-Fr-204

MAT 8701

(n,2n) d

87-Fr-204

Radionuclide Production Cross Section



99

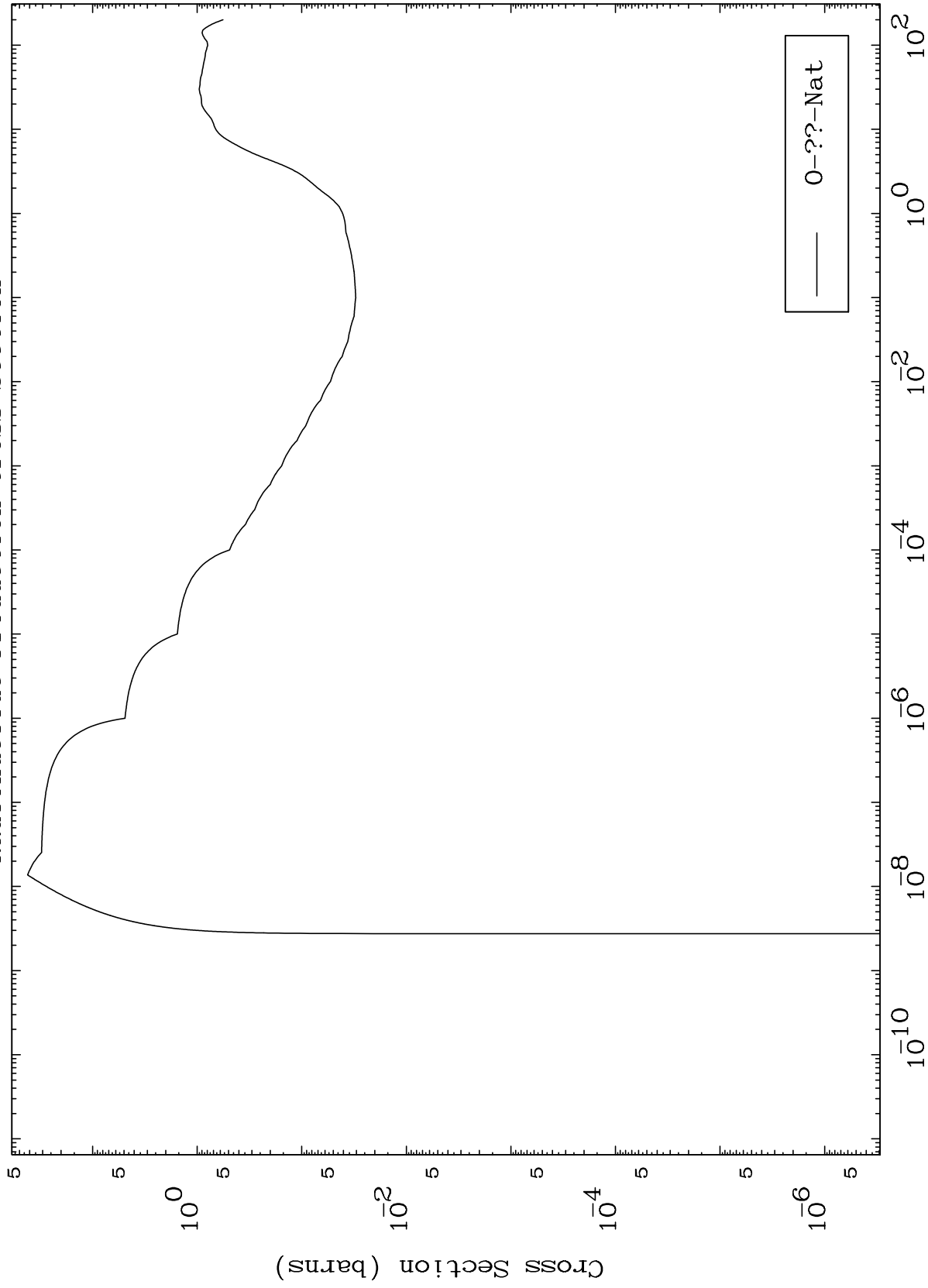
Incident Energy (MeV)

87-Fr-204

MAT 8701

87-Fr-204

Fission
Radionuclide Production Cross Section



100

Incident Energy (MeV)

87-Fr-204

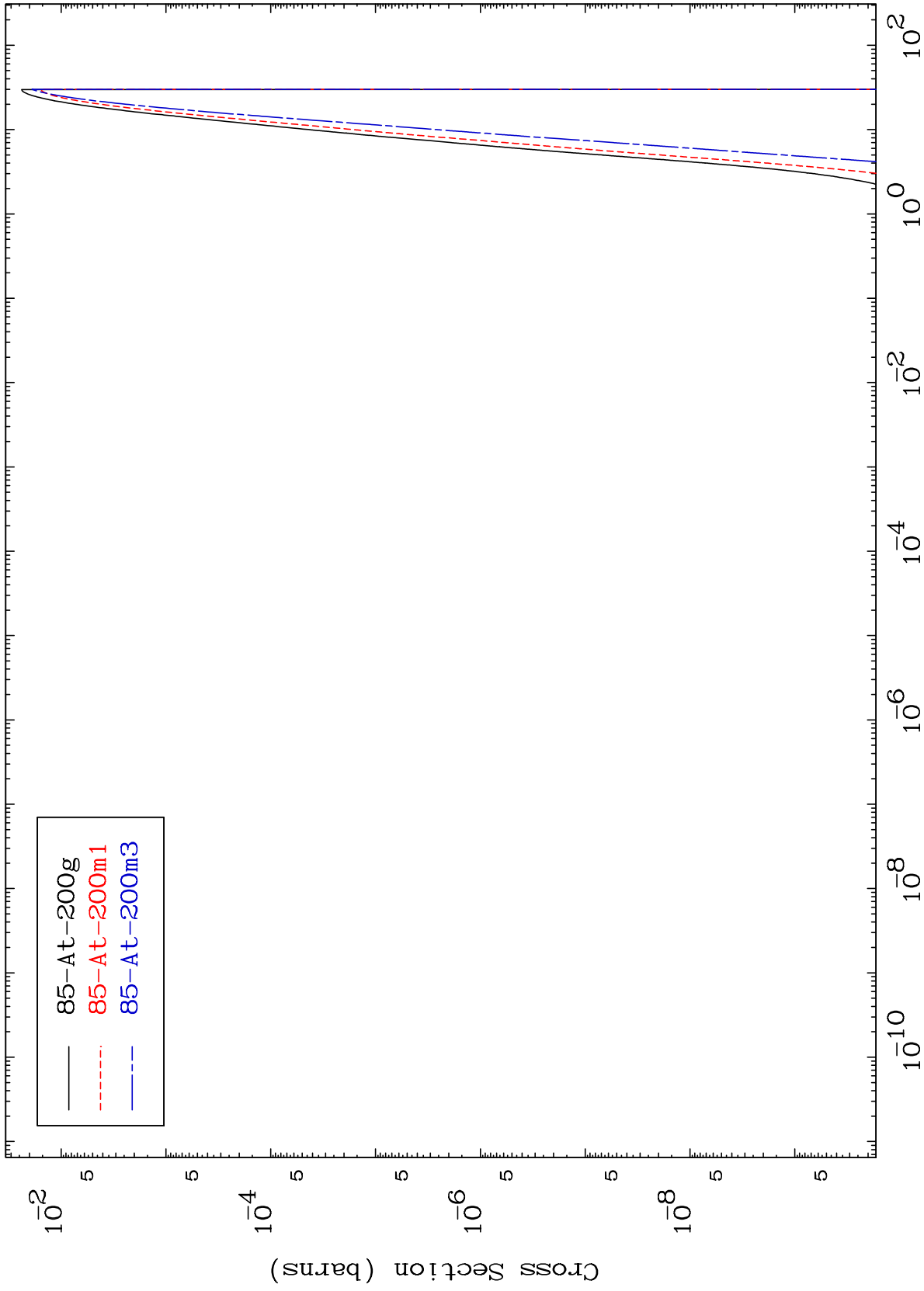
0-??-Nat

MAT 8701

(n,n') α

87-Fr-204

Radionuclide Production Cross Section



101

Incident Energy (MeV)

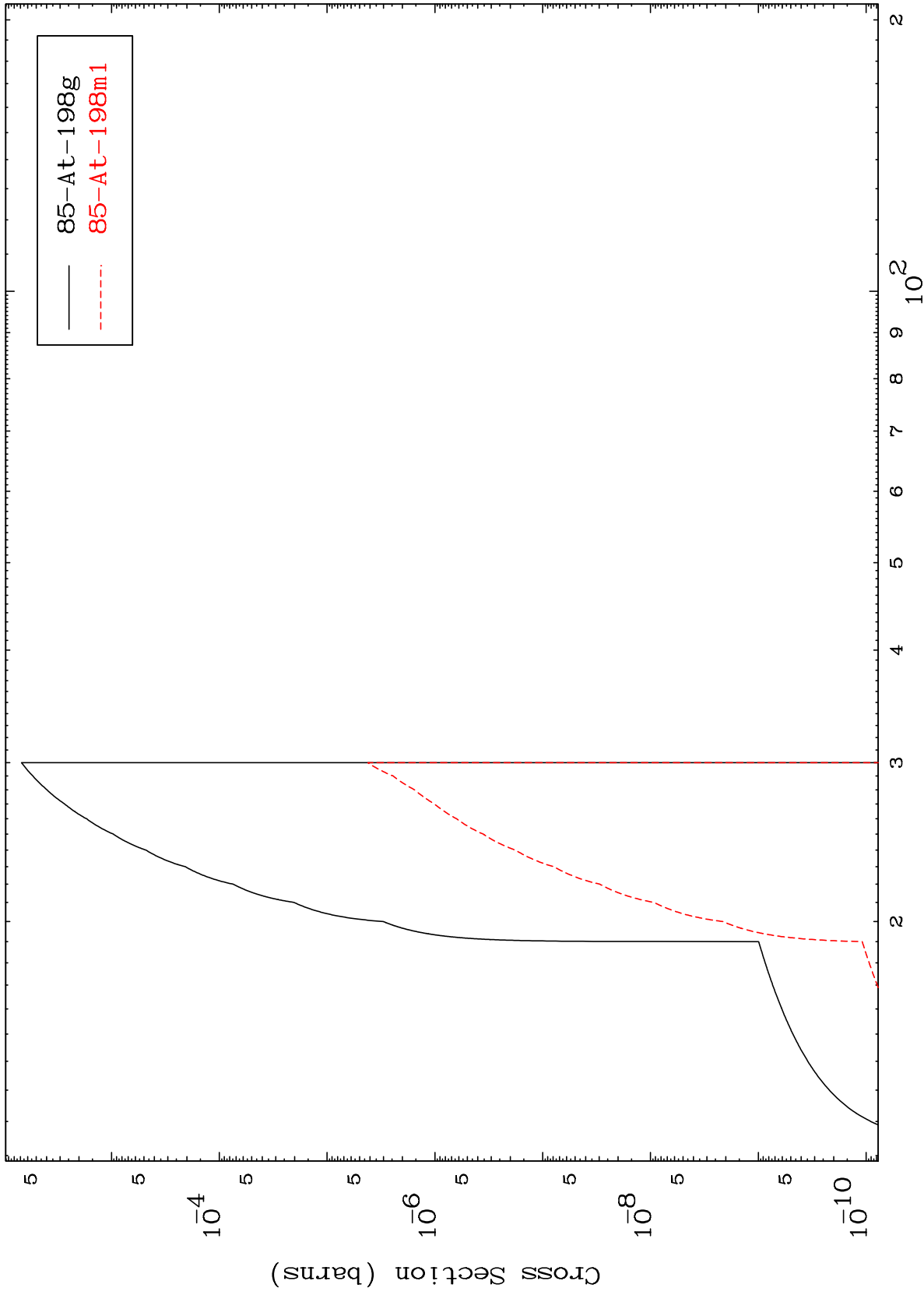
87-Fr-204

MAT 8701

(n,3n) α

87-Fr-204

Radionuclide Production Cross Section



102

Incident Energy (MeV)

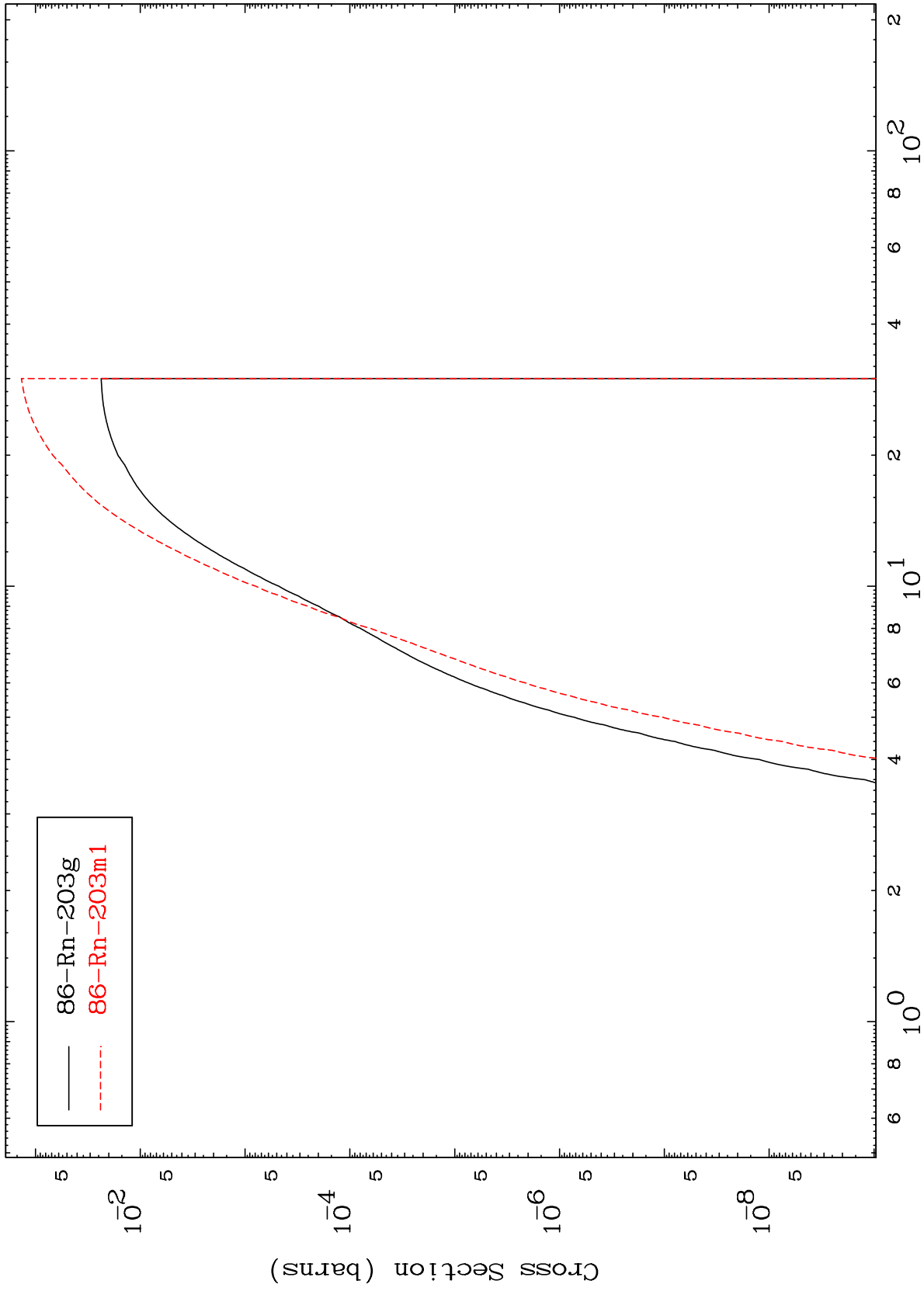
87-Fr-204

MAT 8701

(n,n') p

87-Fr-204

Radionuclide Production Cross Section



86-Rn-203g
86-Rn-203m1

103

Incident Energy (MeV)

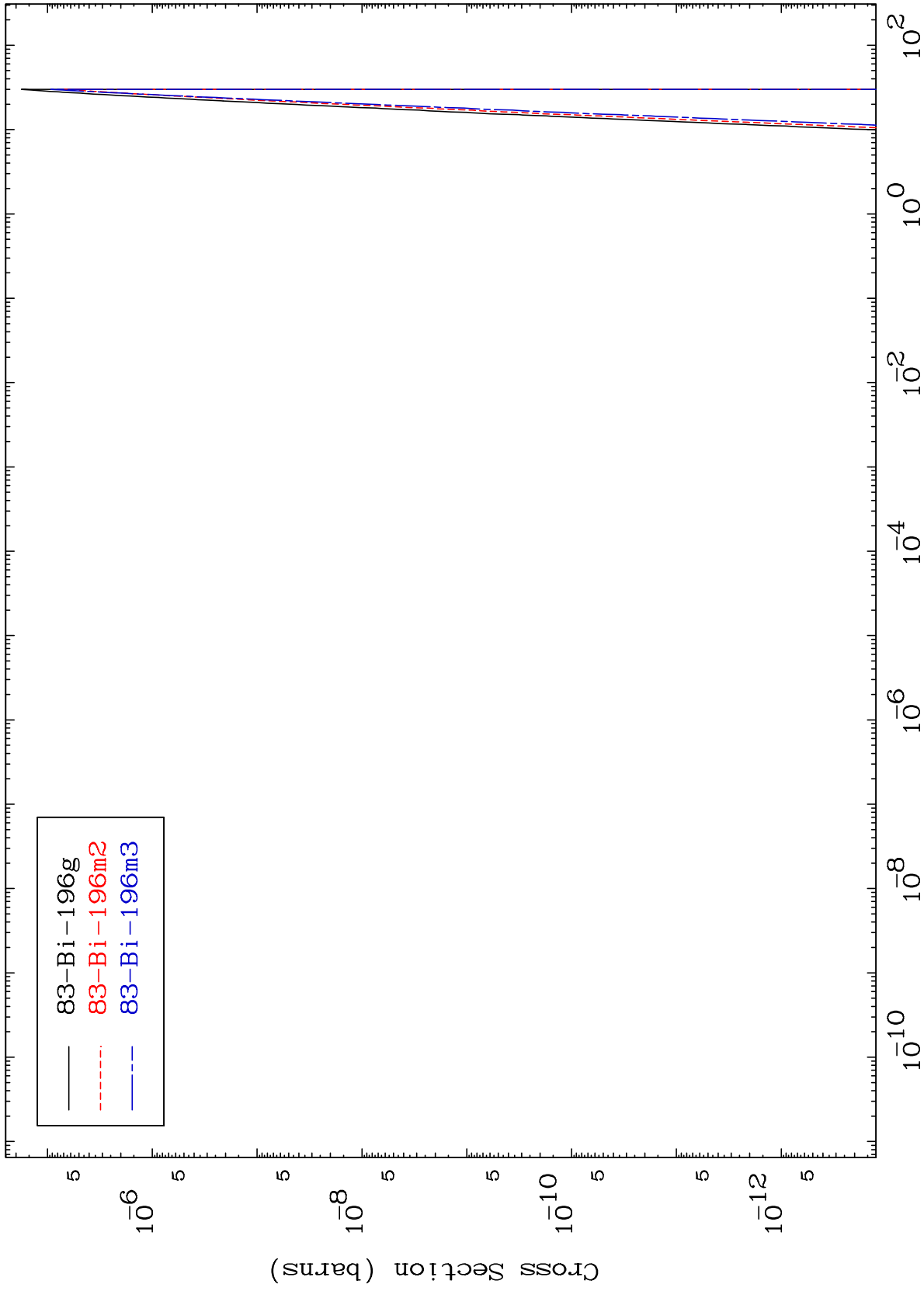
87-Fr-204

MAT 8701

(n,n') 2 α

87-Fr-204

Radionuclide Production Cross Section



104

Incident Energy (MeV)

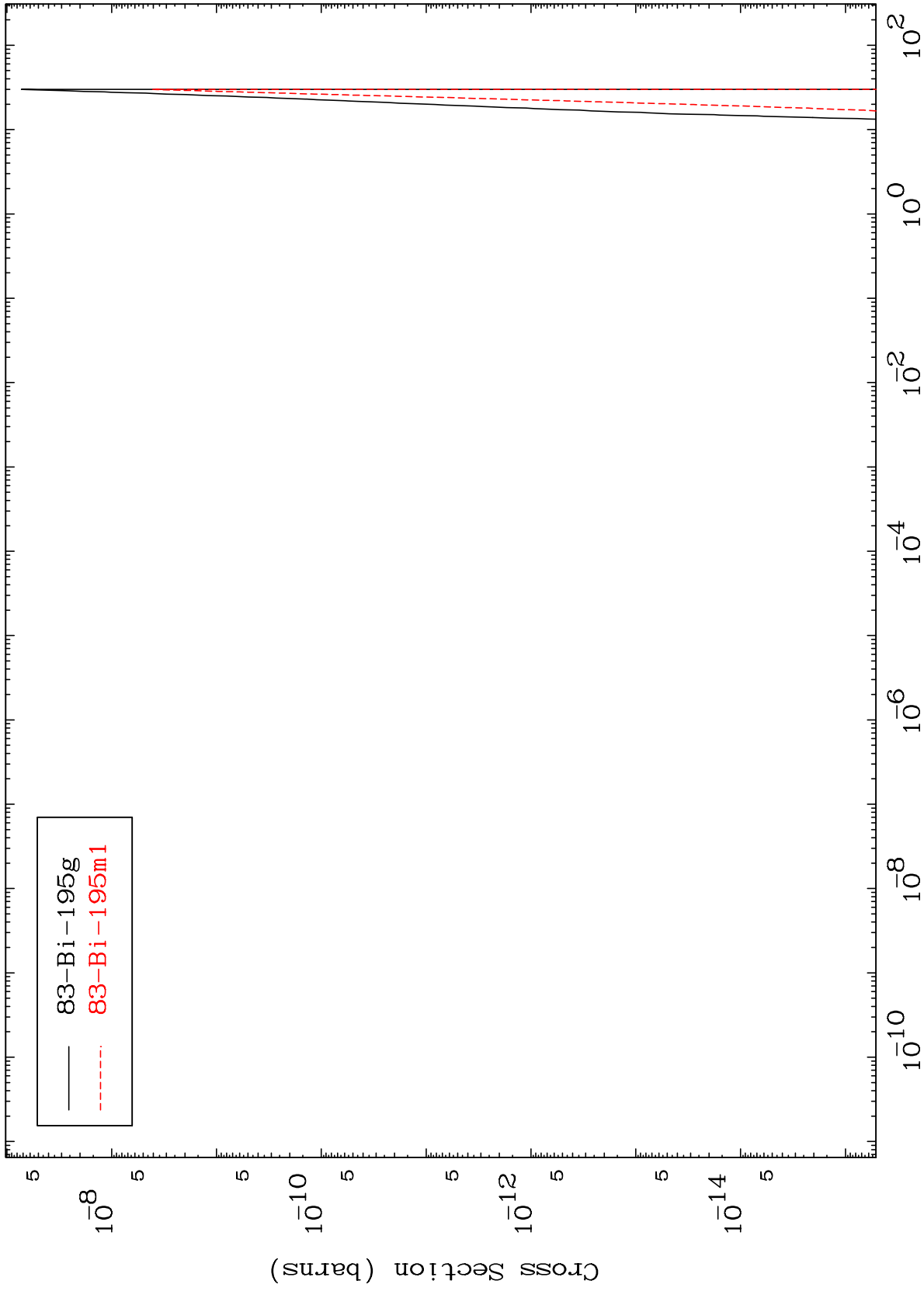
87-Fr-204

MAT 8701

(n,2n) 2 α

87-Fr-204

Radionuclide Production Cross Section



105

Incident Energy (MeV)

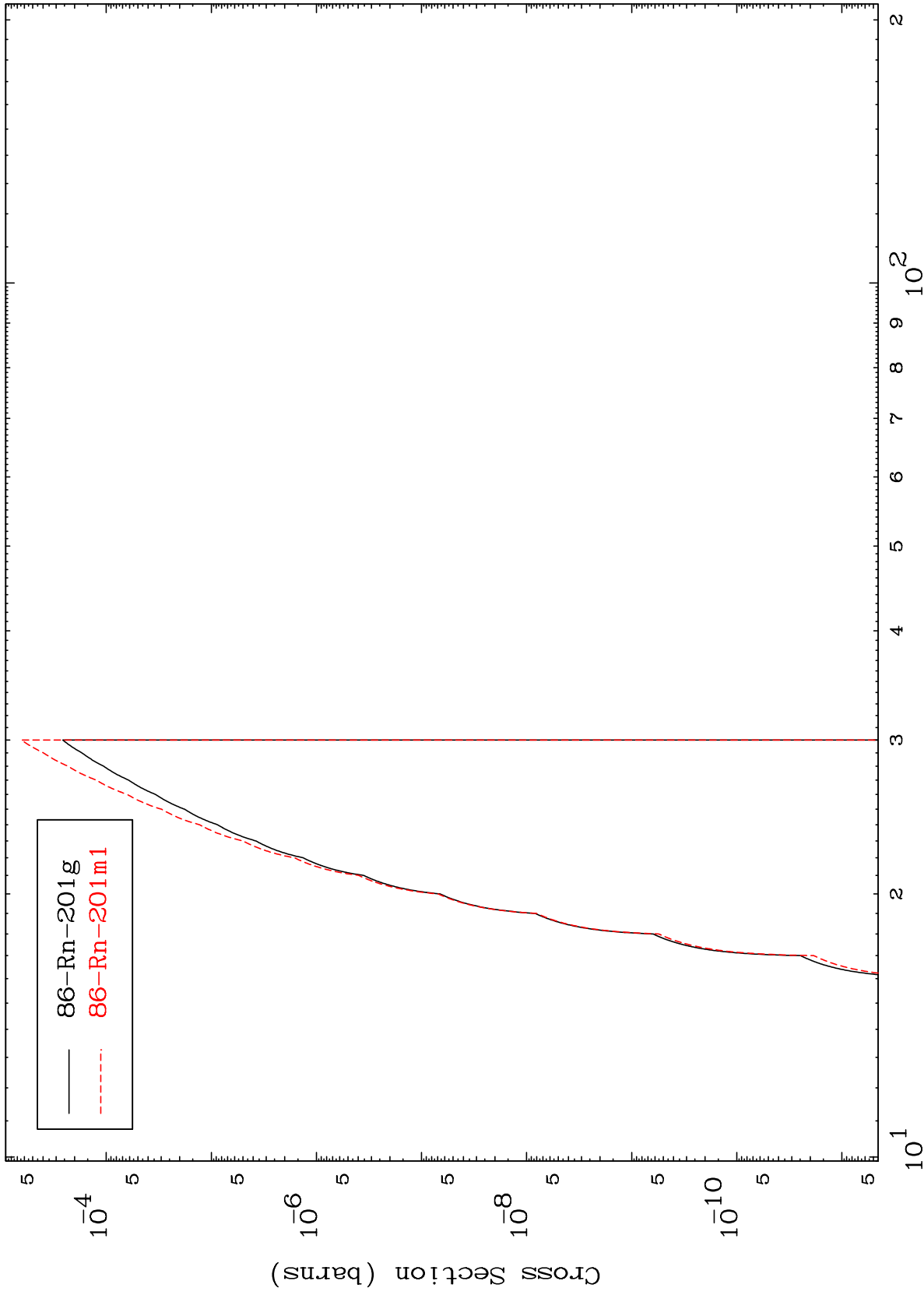
87-Fr-204

MAT 8701

(n,n') t

87-Fr-204

Radionuclide Production Cross Section



106

Incident Energy (MeV)

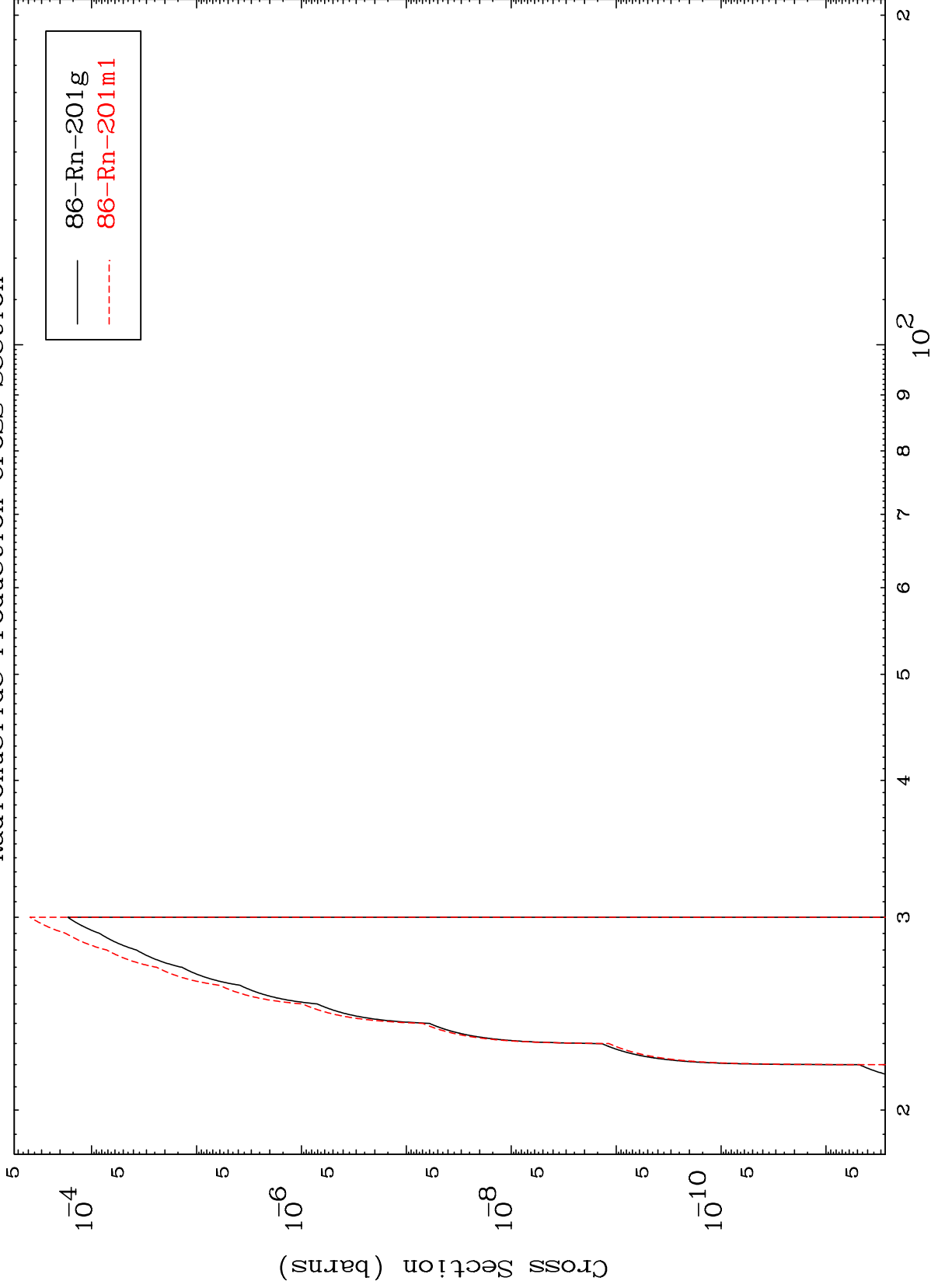
87-Fr-204

MAT 8701

(n,3n) p

87-Fr-204

Radionuclide Production Cross Section



107

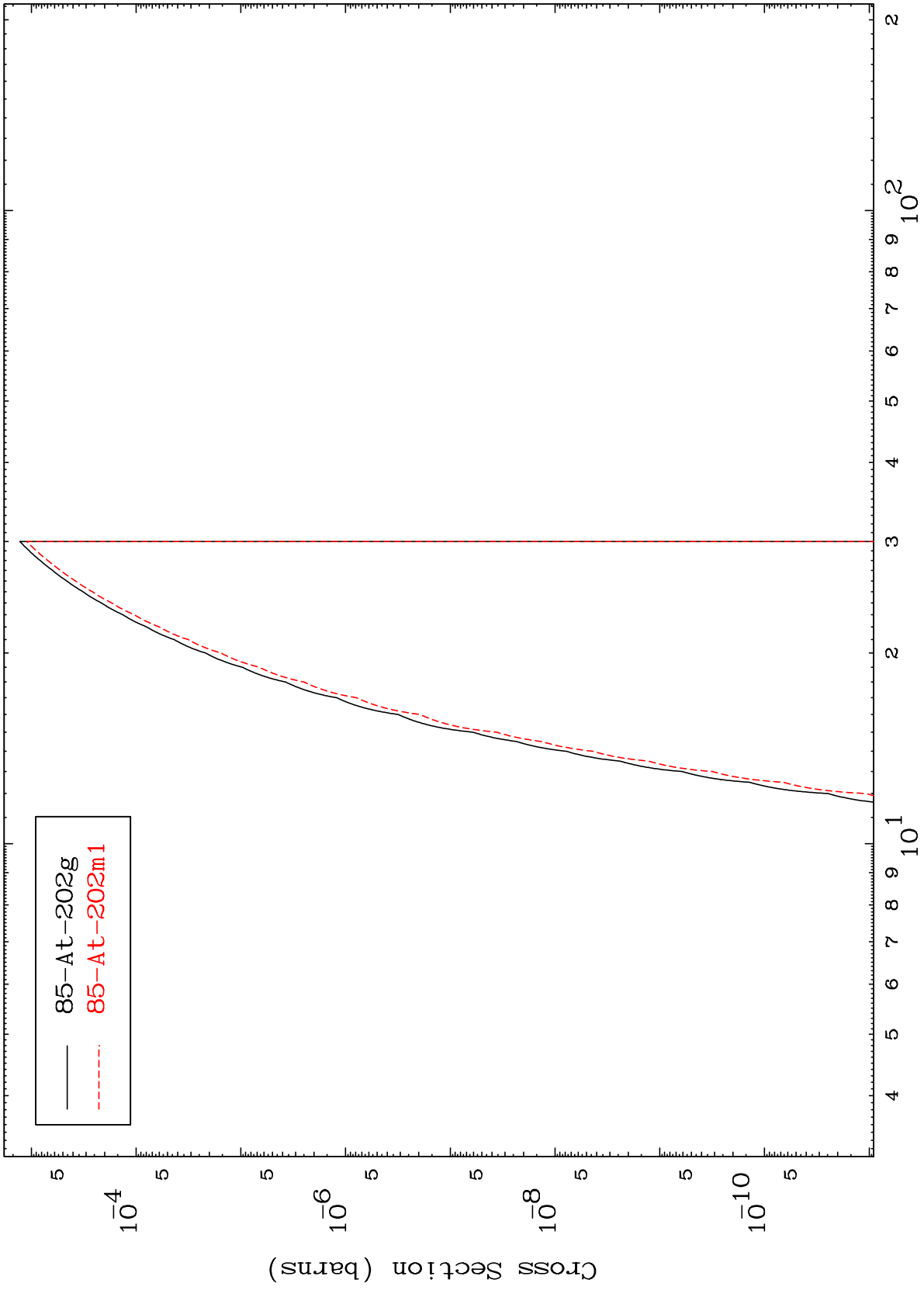
Incident Energy (MeV)

87-Fr-204

MAT 8701

87-Fr-204

(n,2n) p
Radionuclide Production Cross Section



108

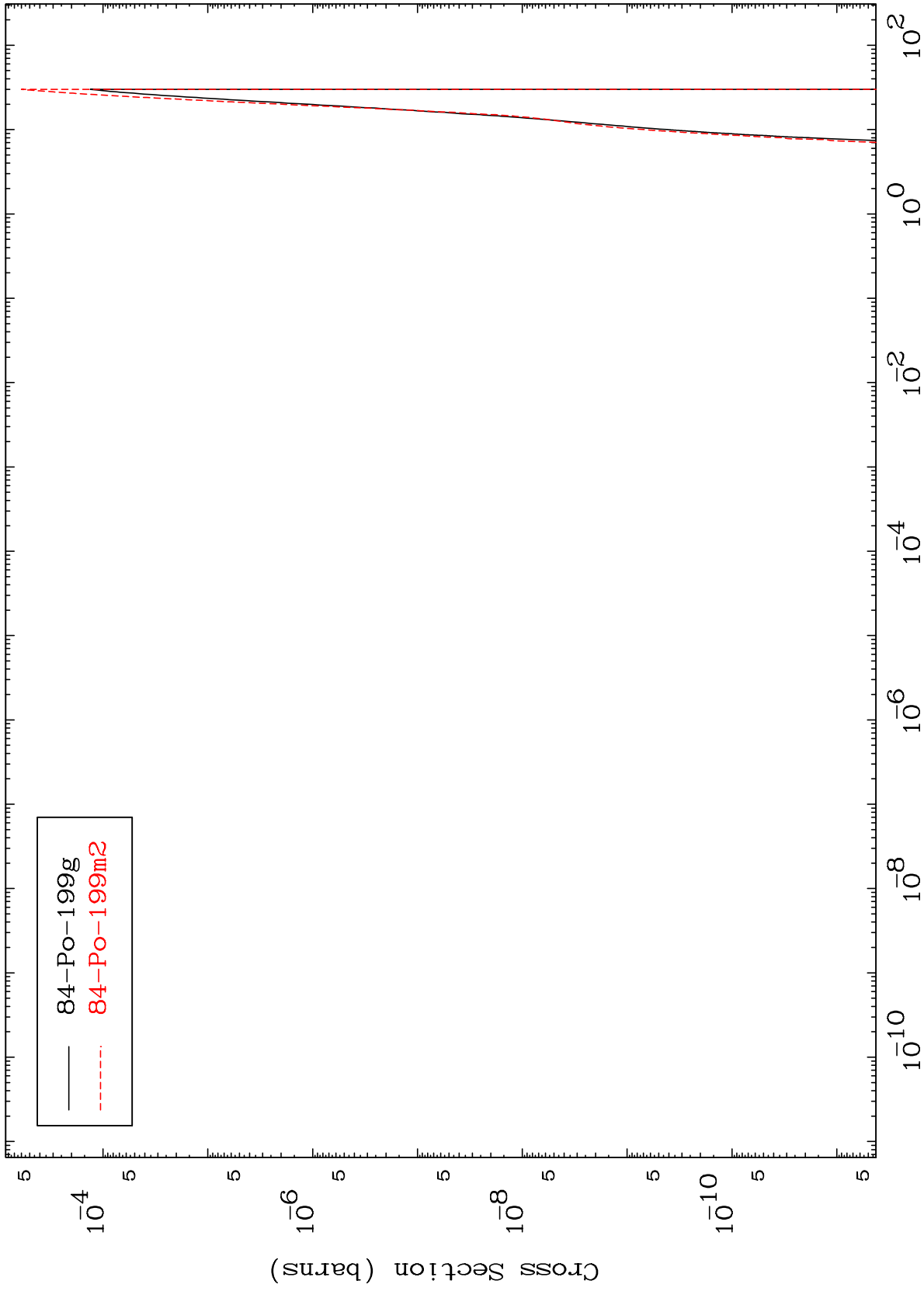
87-Fr-204

MAT 8701

(n,n') p α

87-Fr-204

Radionuclide Production Cross Section



109

Incident Energy (MeV)

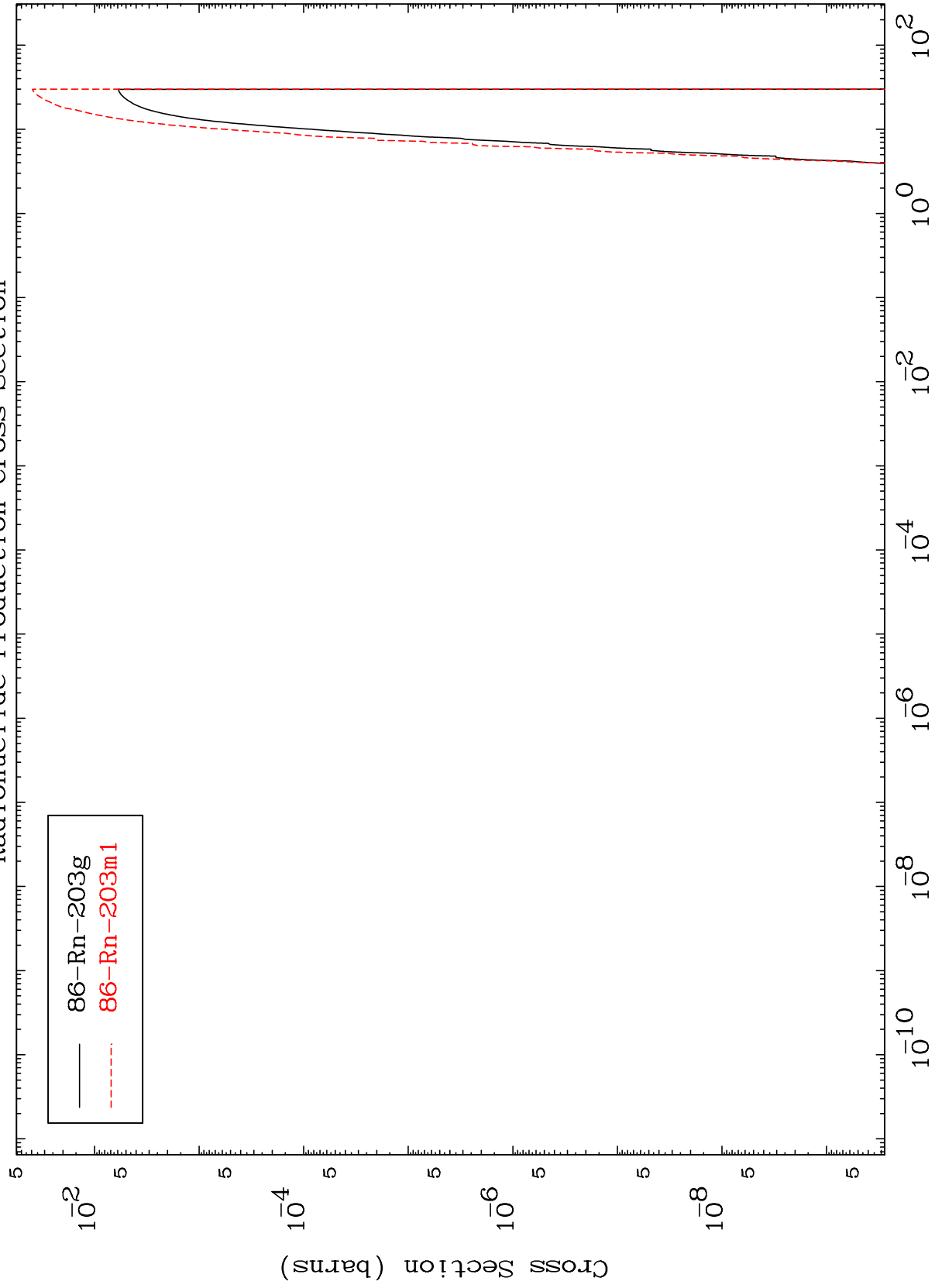
87-Fr-204

MAT 8701

(n,d)

⁸⁷Fr-204

Radionuclide Production Cross Section



110

Incident Energy (MeV)

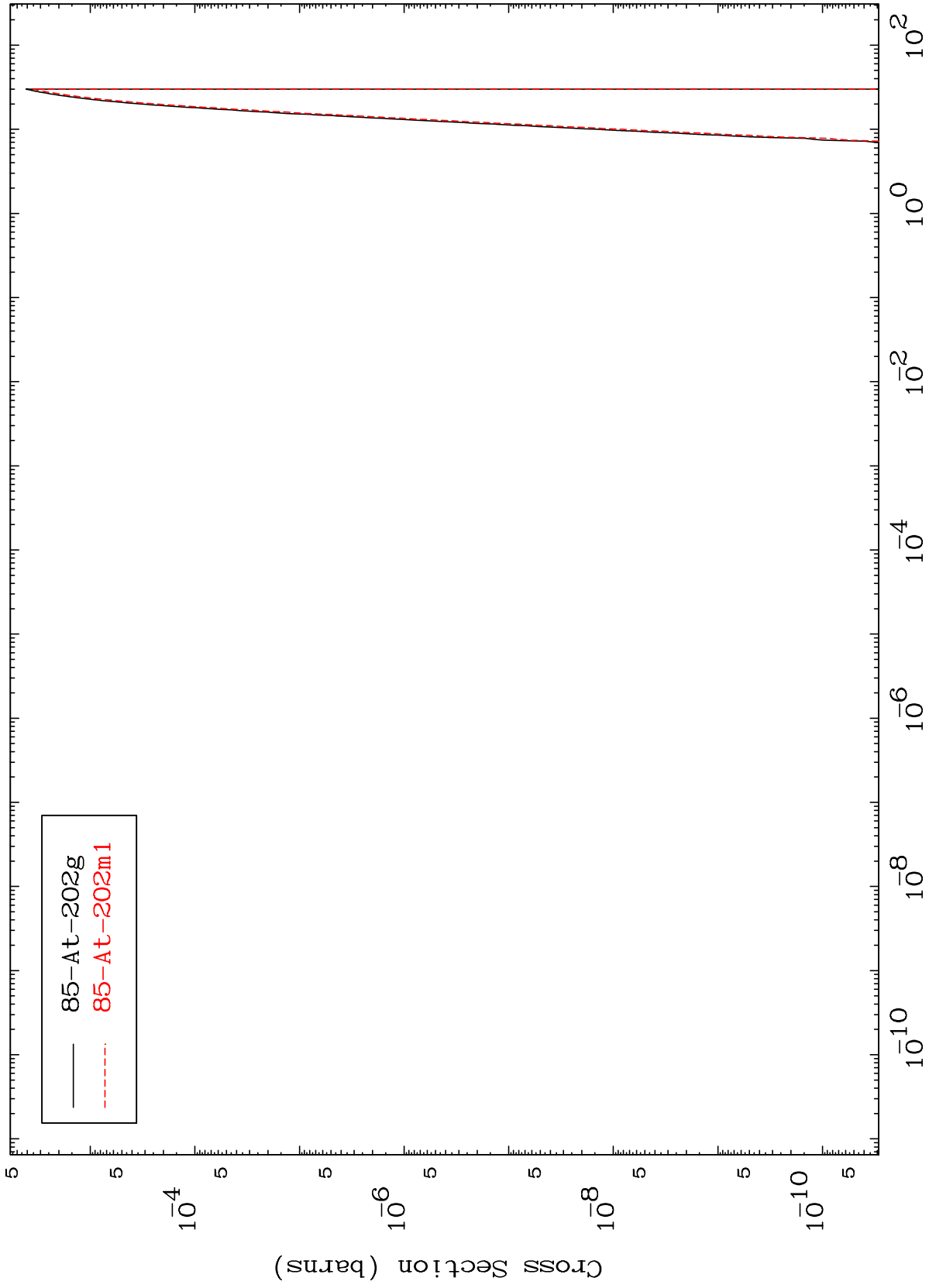
⁸⁷Fr-204

MAT 8701

(n, He-3)

87-Fr-204

Radionuclide Production Cross Section



85-At-202g
85-At-202m1

111

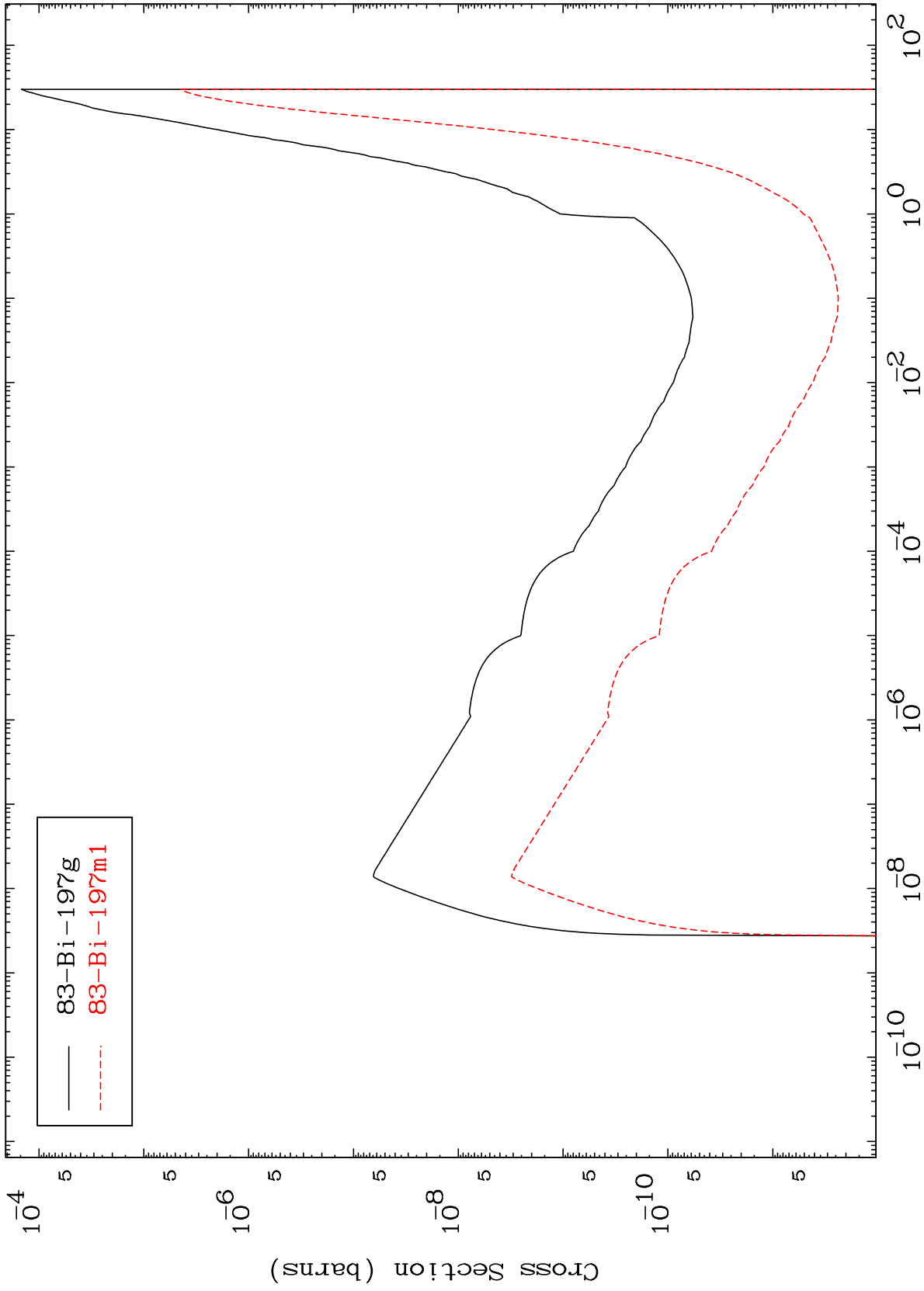
87-Fr-204

MAT 8701

(n,2α)

87-Fr-204

Radionuclide Production Cross Section



112

Incident Energy (MeV)

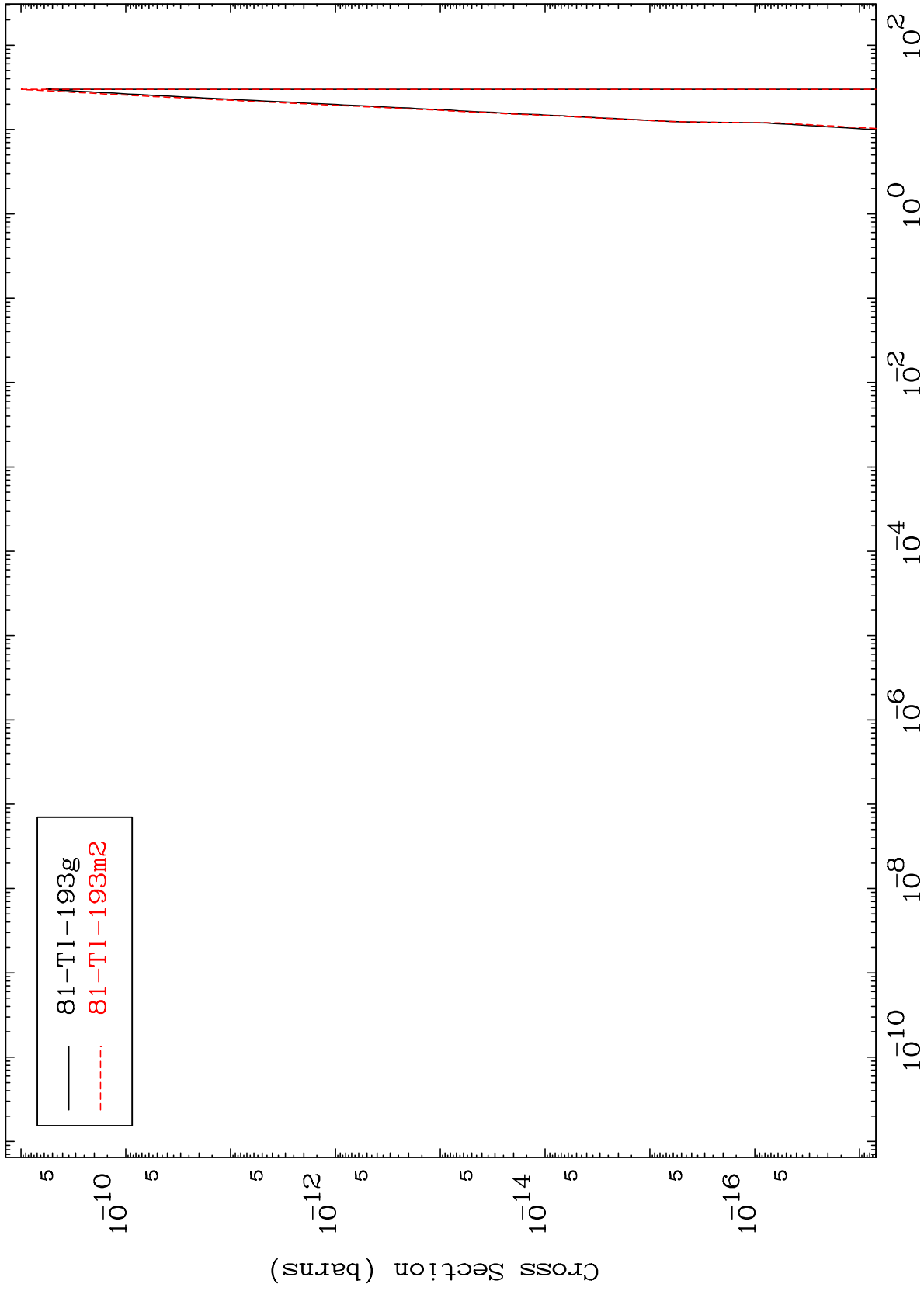
87-Fr-204

MAT 8701

(n,3α)

87-Fr-204

Radionuclide Production Cross Section



113

Incident Energy (MeV)

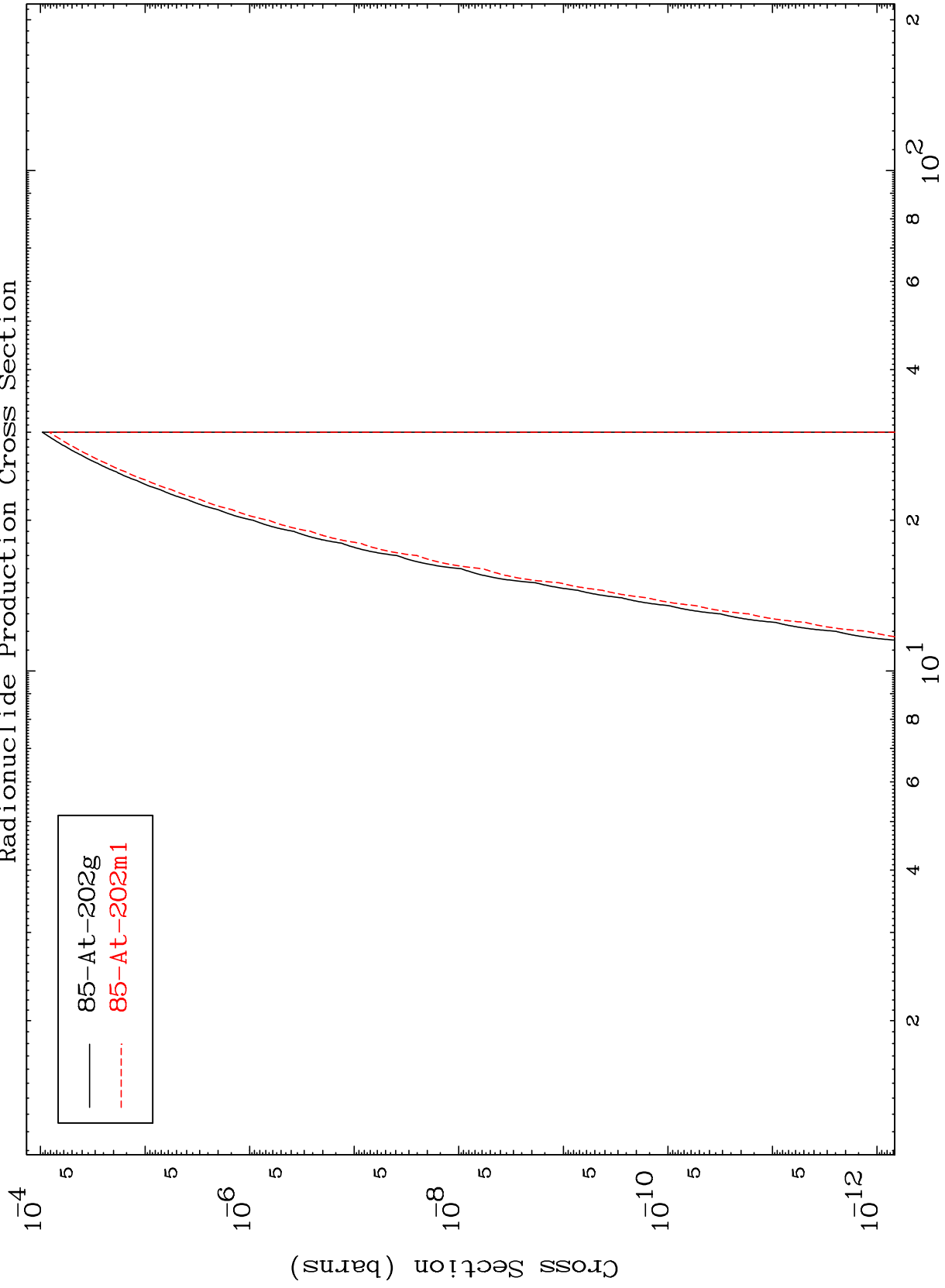
87-Fr-204

MAT 8701

(n,p) d

87-Fr-204

Radionuclide Production Cross Section



85-At-202g
85-At-202ml

114

Incident Energy (MeV)

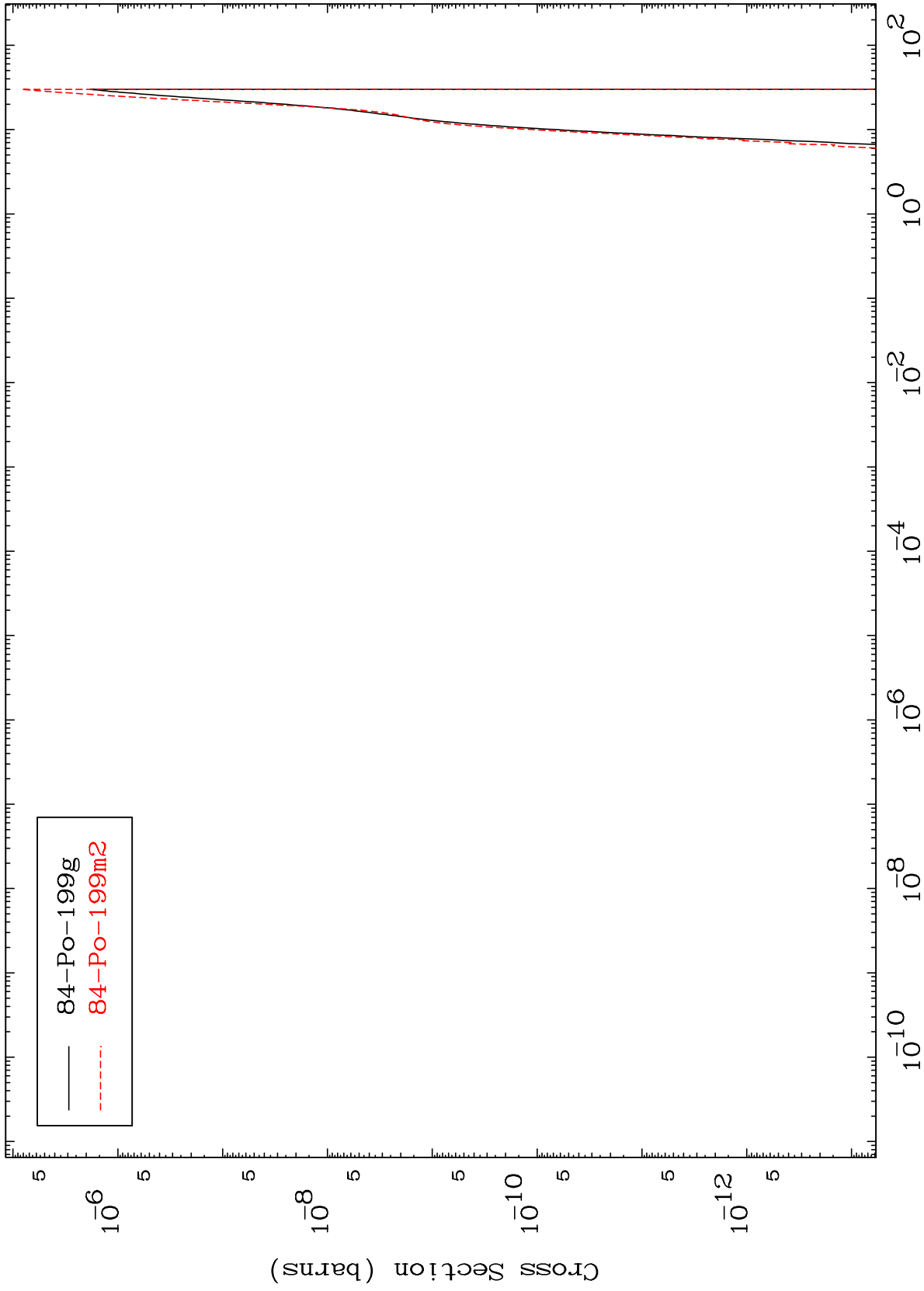
87-Fr-204

MAT 8701

(n,d) α

87-Fr-204

Radionuclide Production Cross Section



115

Incident Energy (MeV)

87-Fr-204