

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

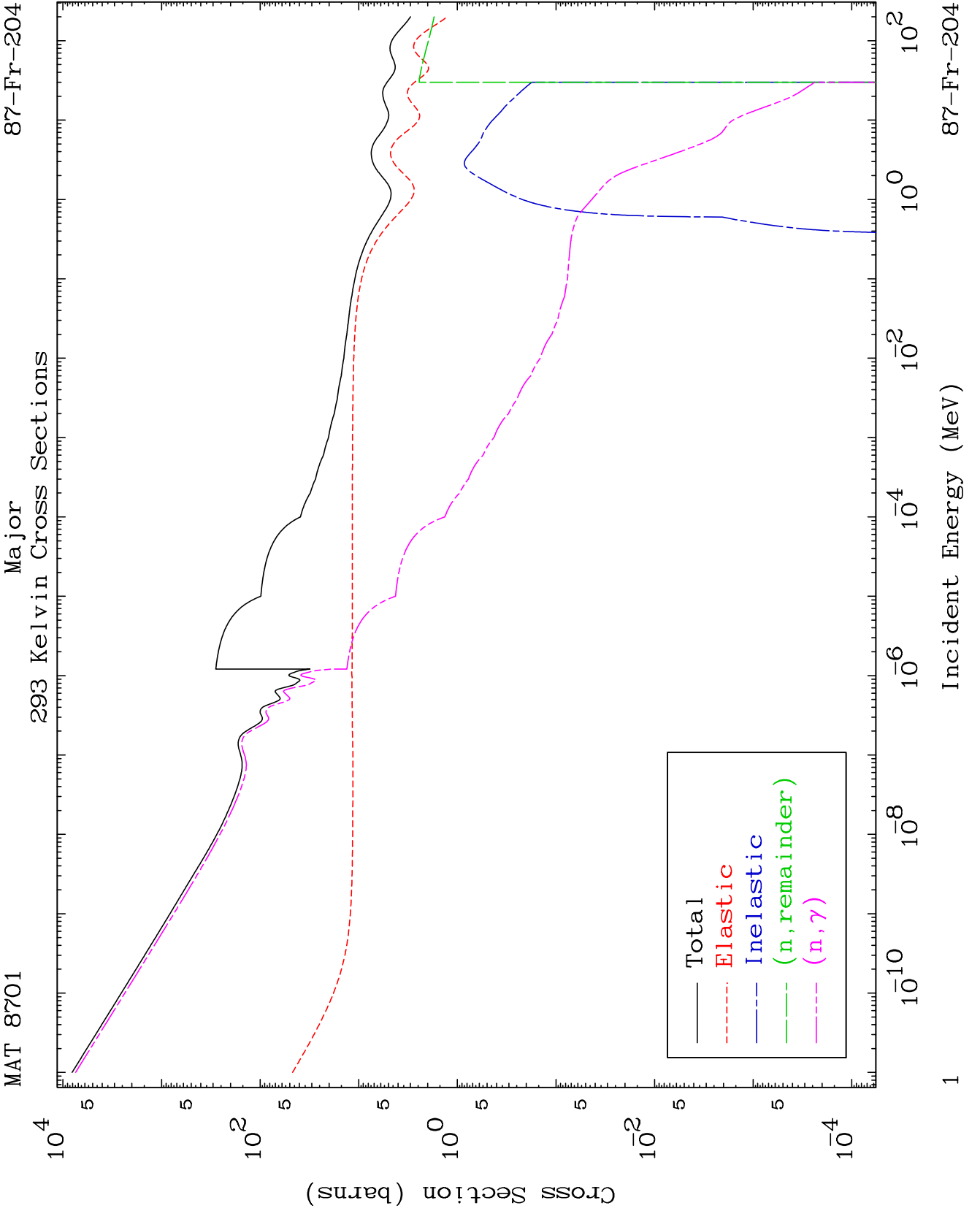
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

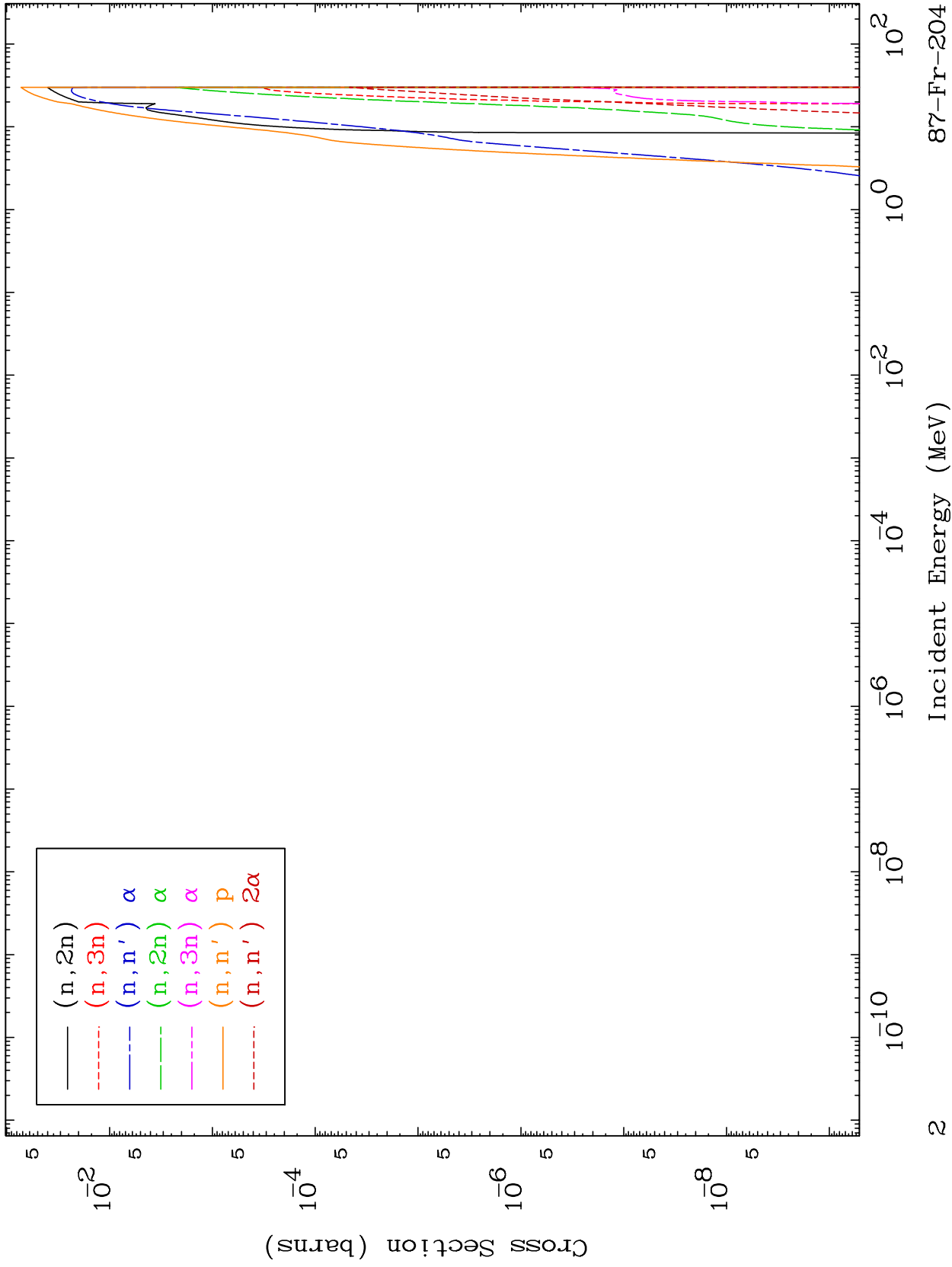
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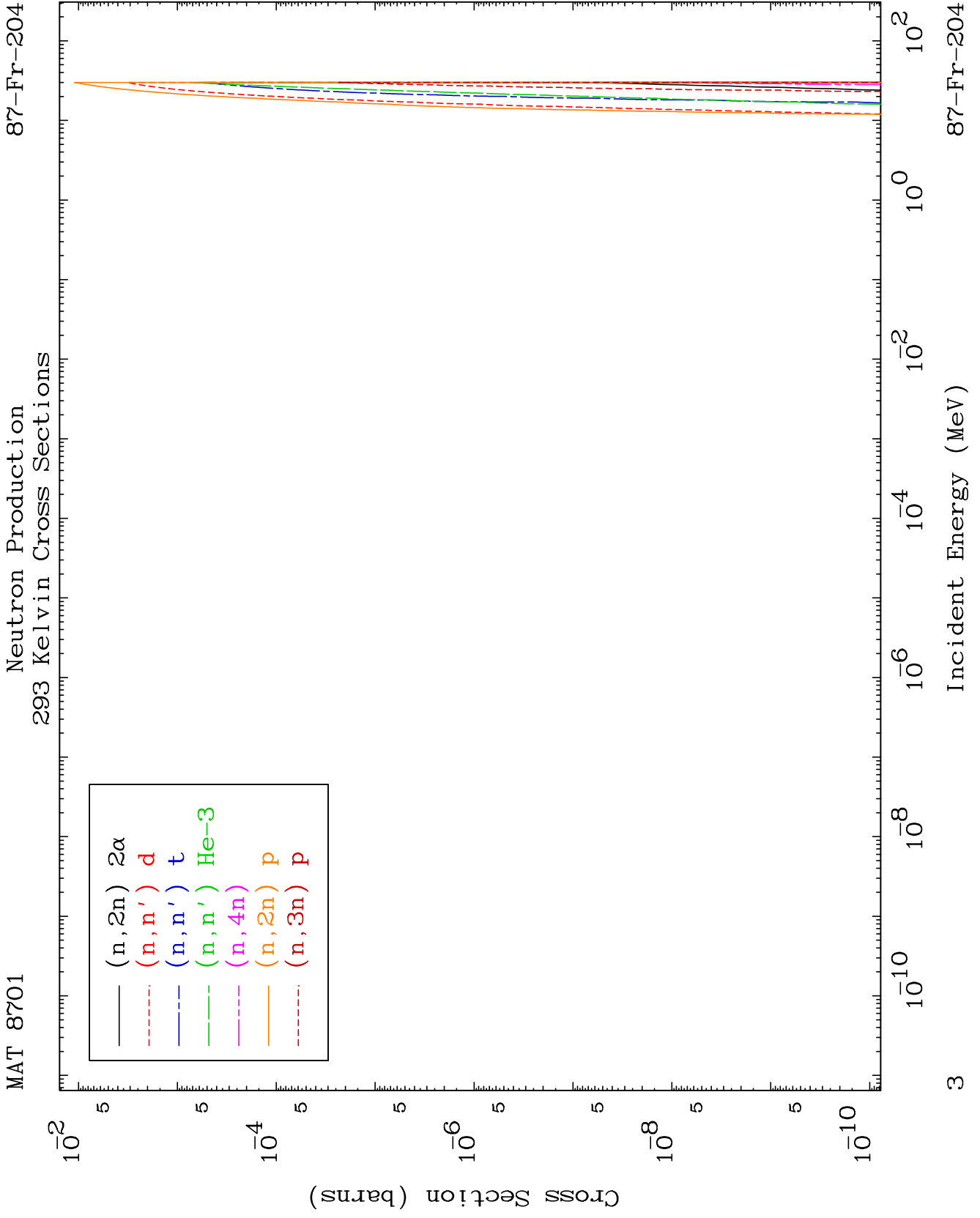


MAT 8701

Neutron Production
293 Kelvin Cross Sections

87-Fr-204

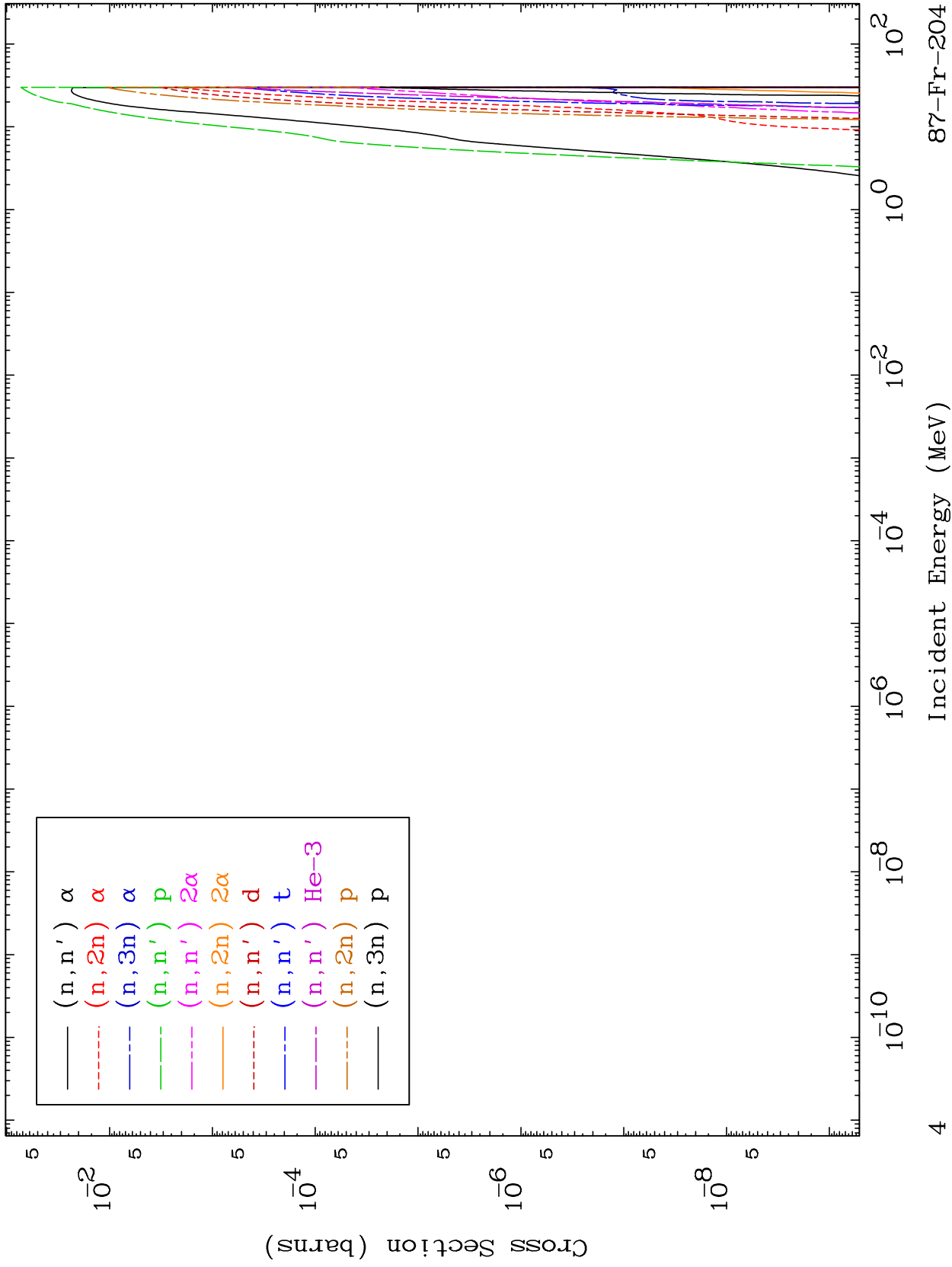




MAT 8701

Charged Particle
293 Kelvin Cross Sections

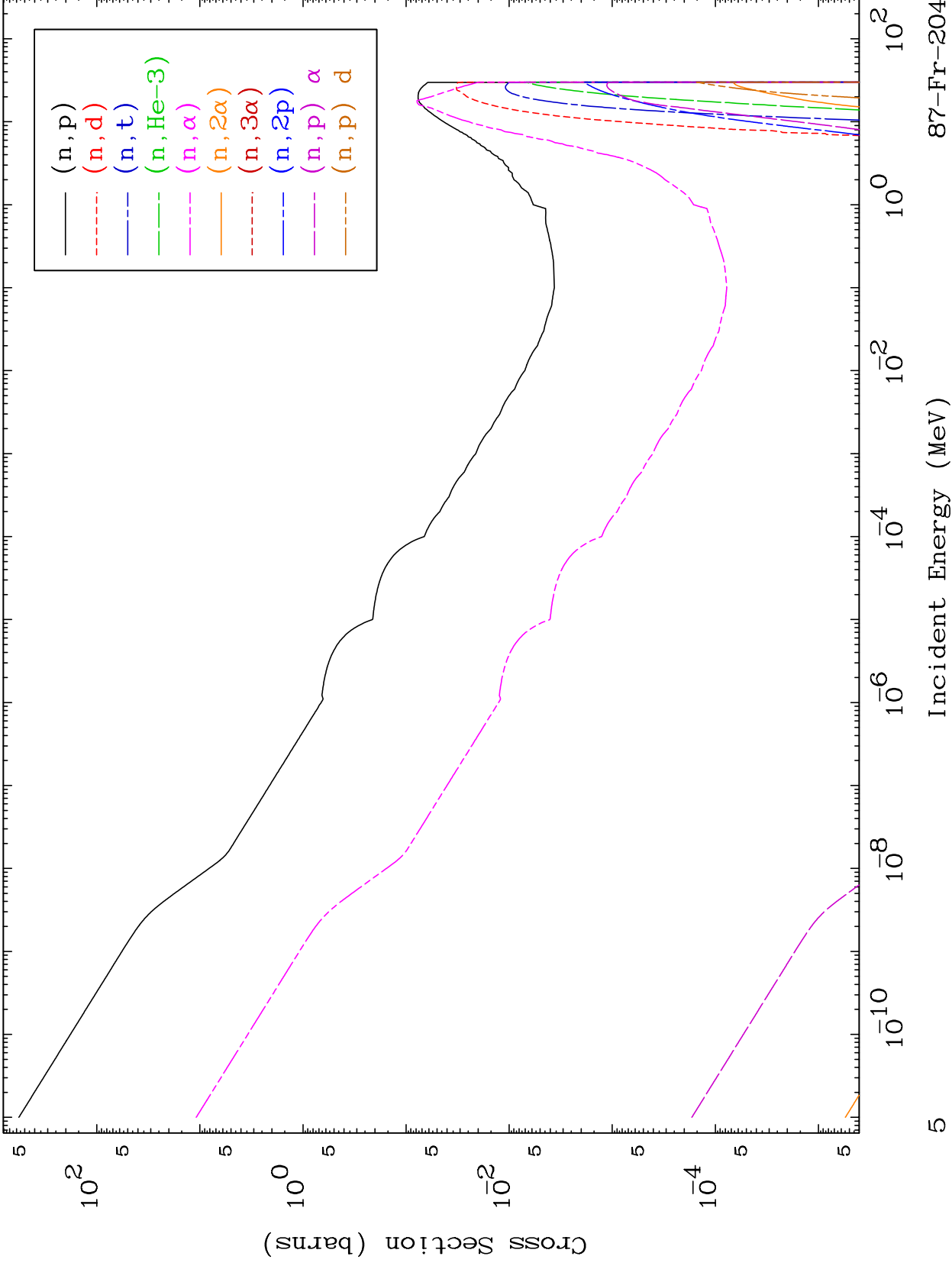
87-Fr-204



MAT 8701

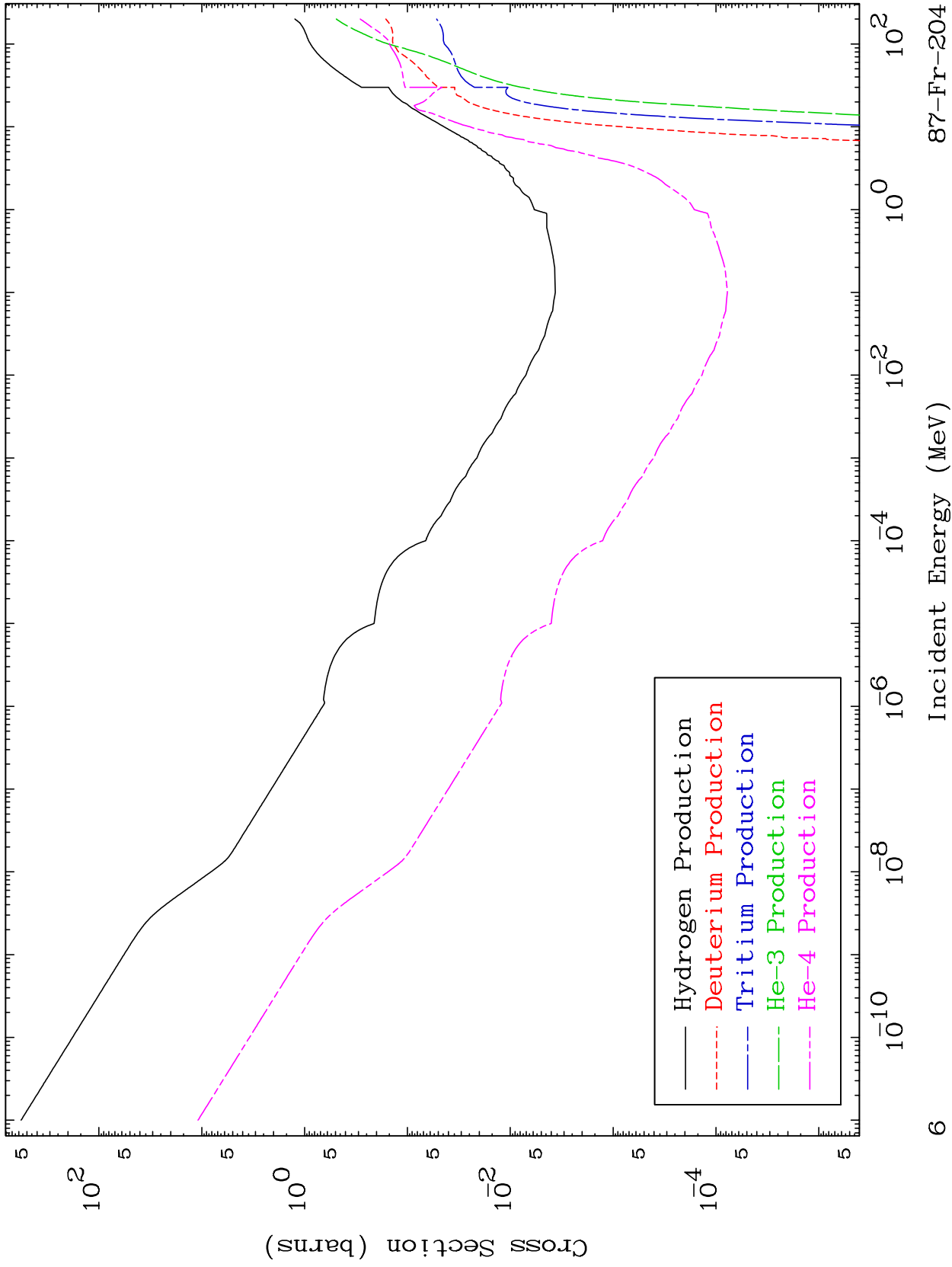
Charged Particle
293 Kelvin Cross Sections

87-Fr-204



5

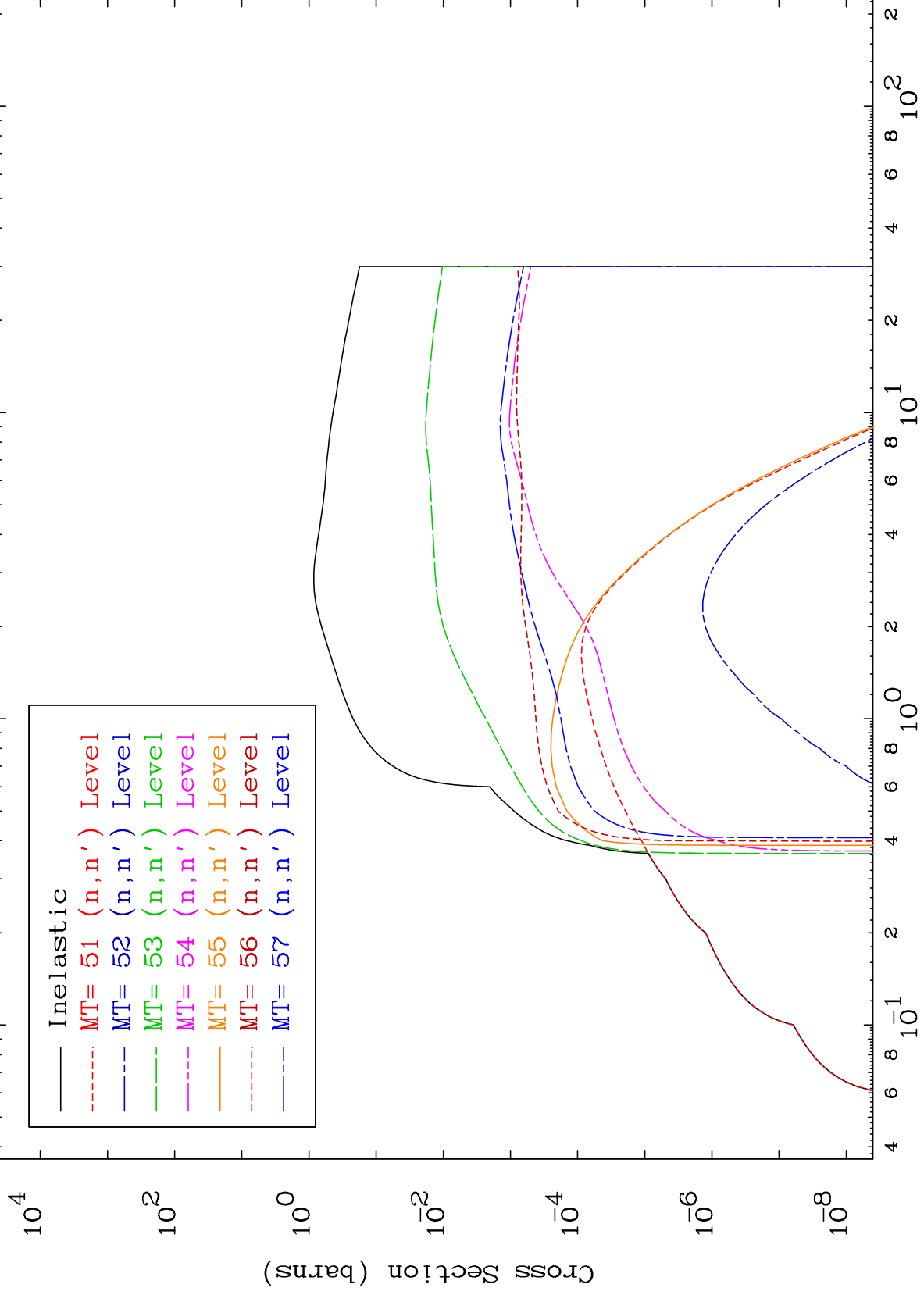
87-Fr-204



MAT 8701

(n,n') Level
293 Kelvin Cross Sections

87-Fr-204

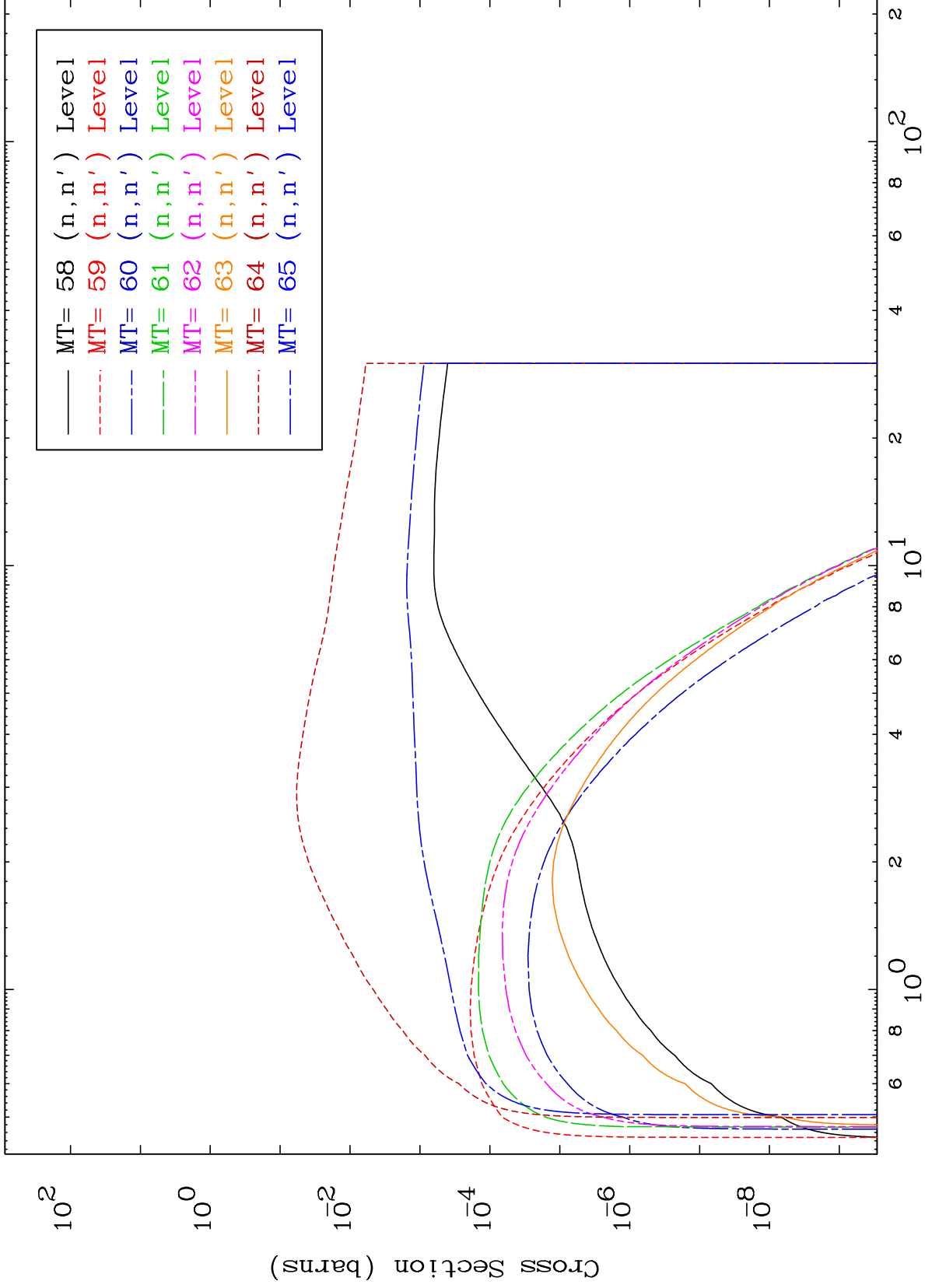


MAT 8701

(n,n') Level

87-Fr-204

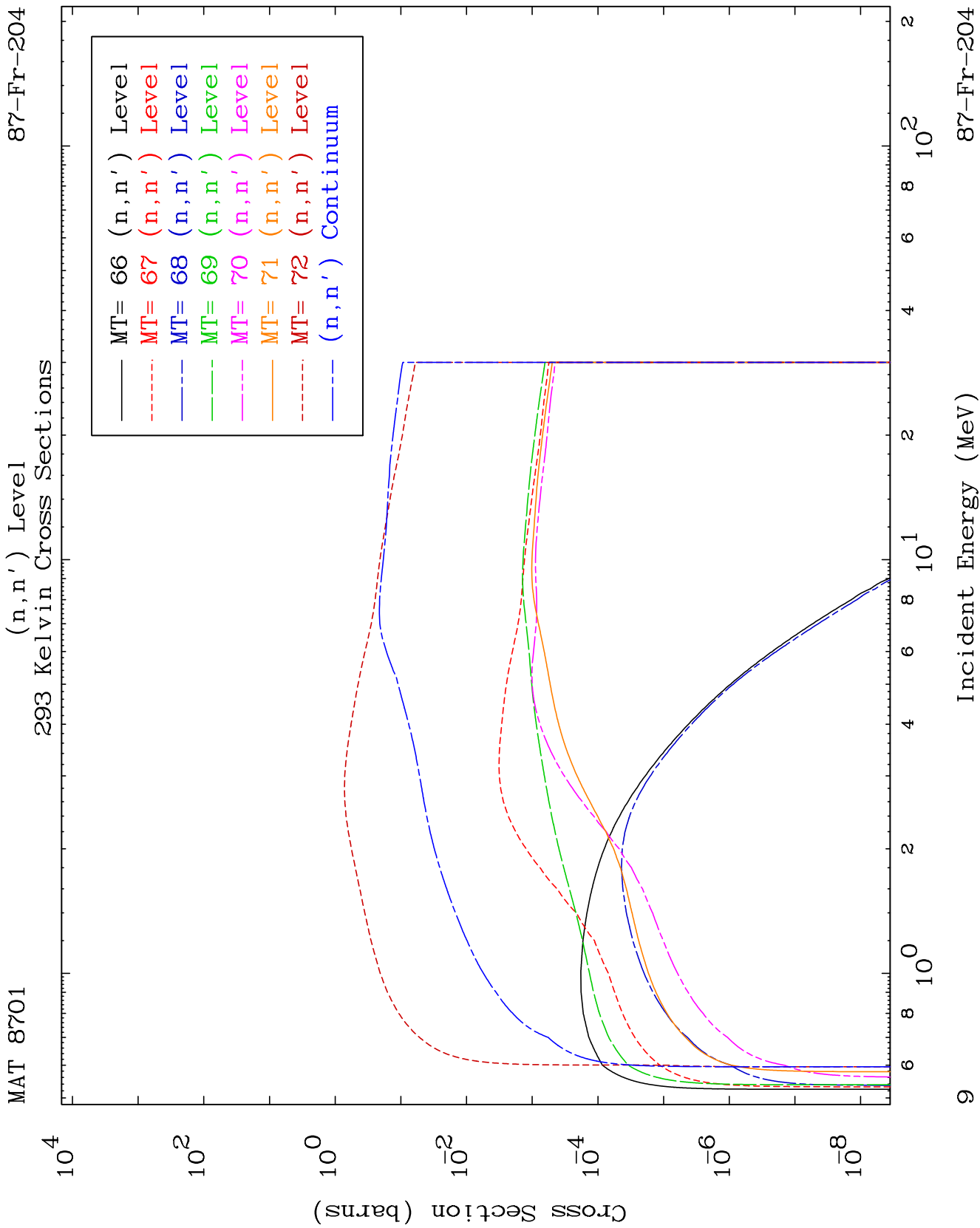
293 Kelvin Cross Sections



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Incident Energy (MeV)

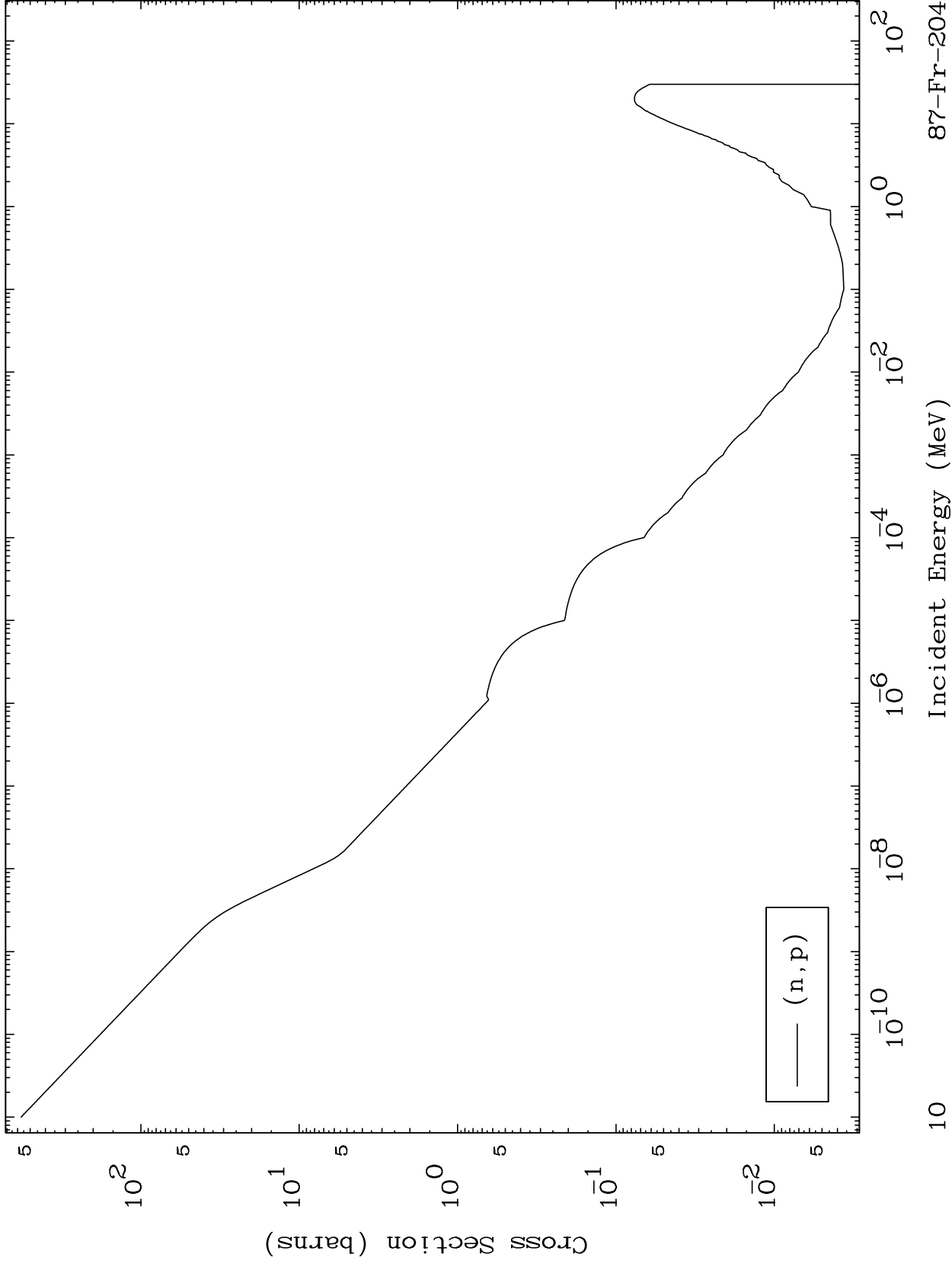
87-Fr-204



MAT 8701

(n,p) Levels
293 Kelvin Cross Sections

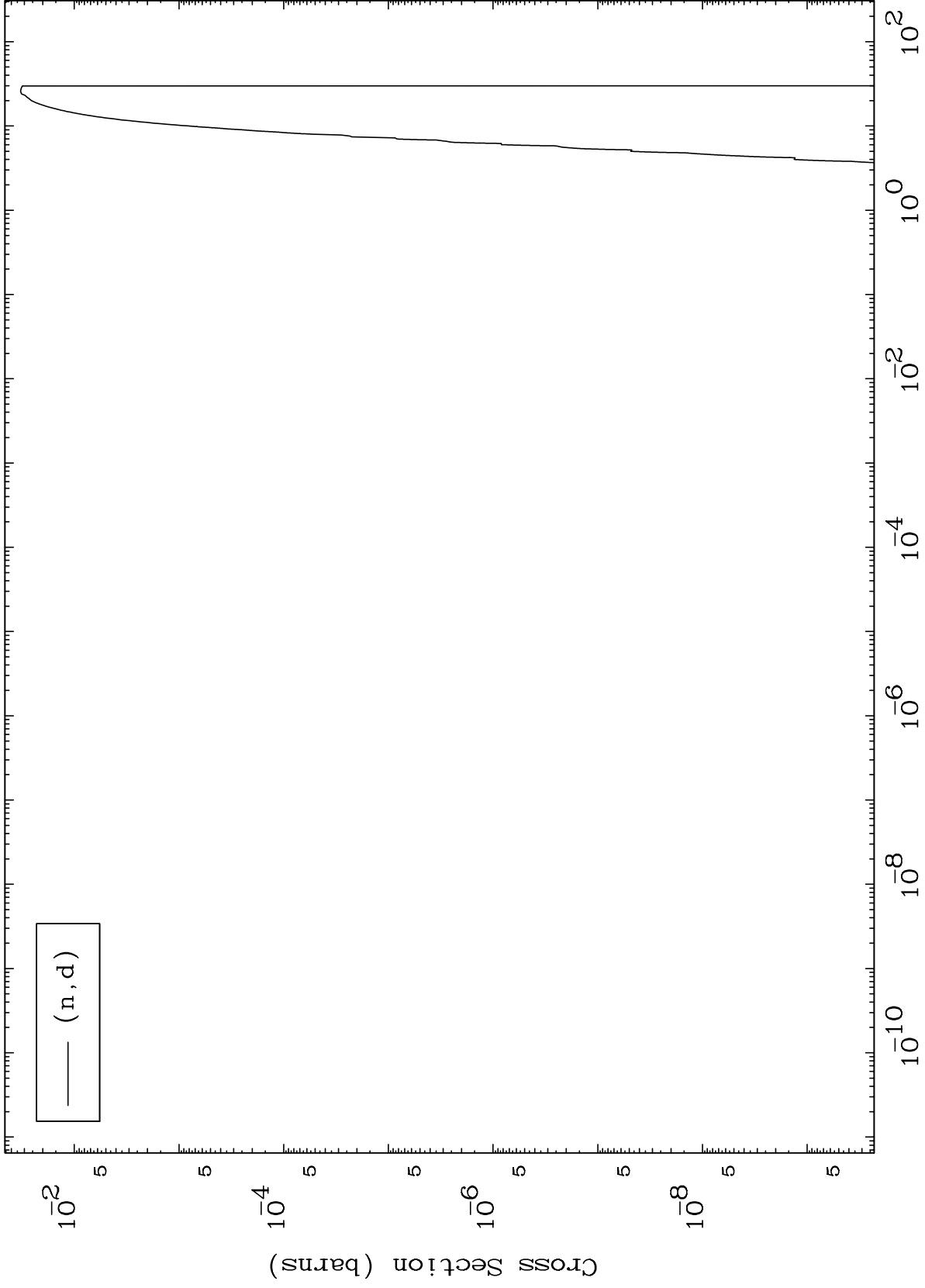
87-Fr-204



MAT 8701

(n,d) Levels
293 Kelvin Cross Sections

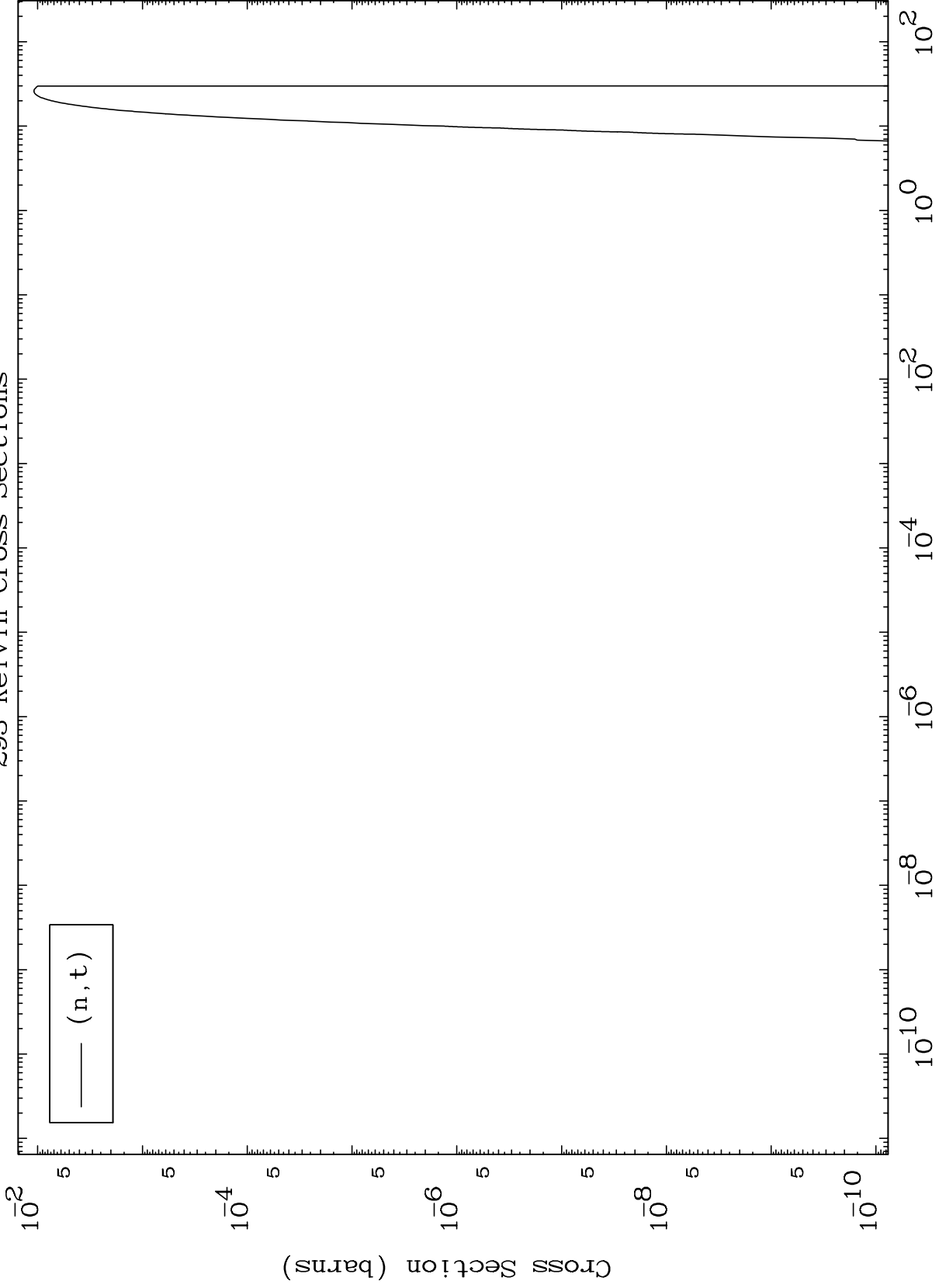
87-Fr-204



MAT 8701

(n,t) Levels
293 Kelvin Cross Sections

87-Fr-204



12

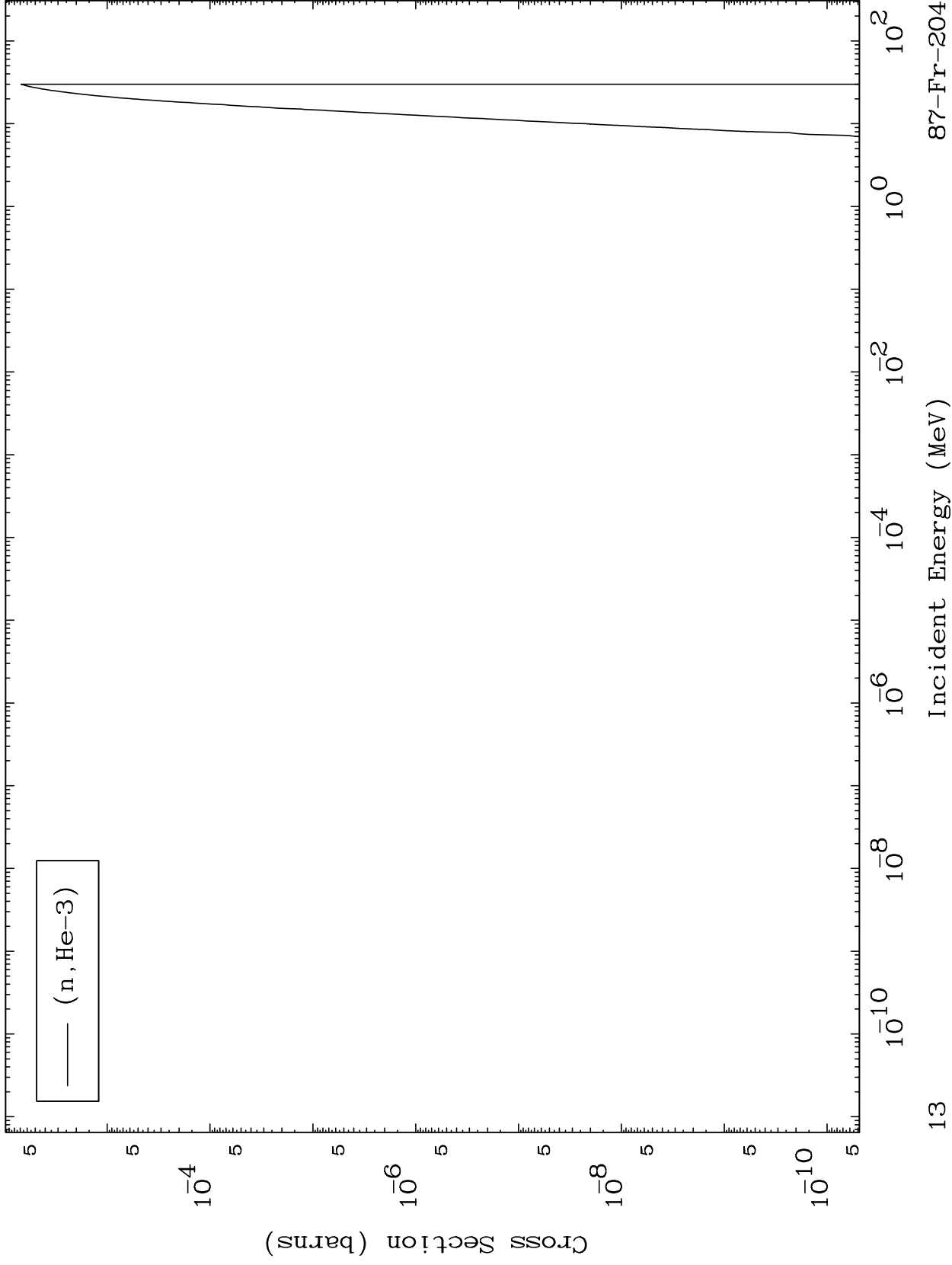
Incident Energy (MeV)

87-Fr-204

MAT 8701

(n,He3) Levels
293 Kelvin Cross Sections

87-Fr-204



13

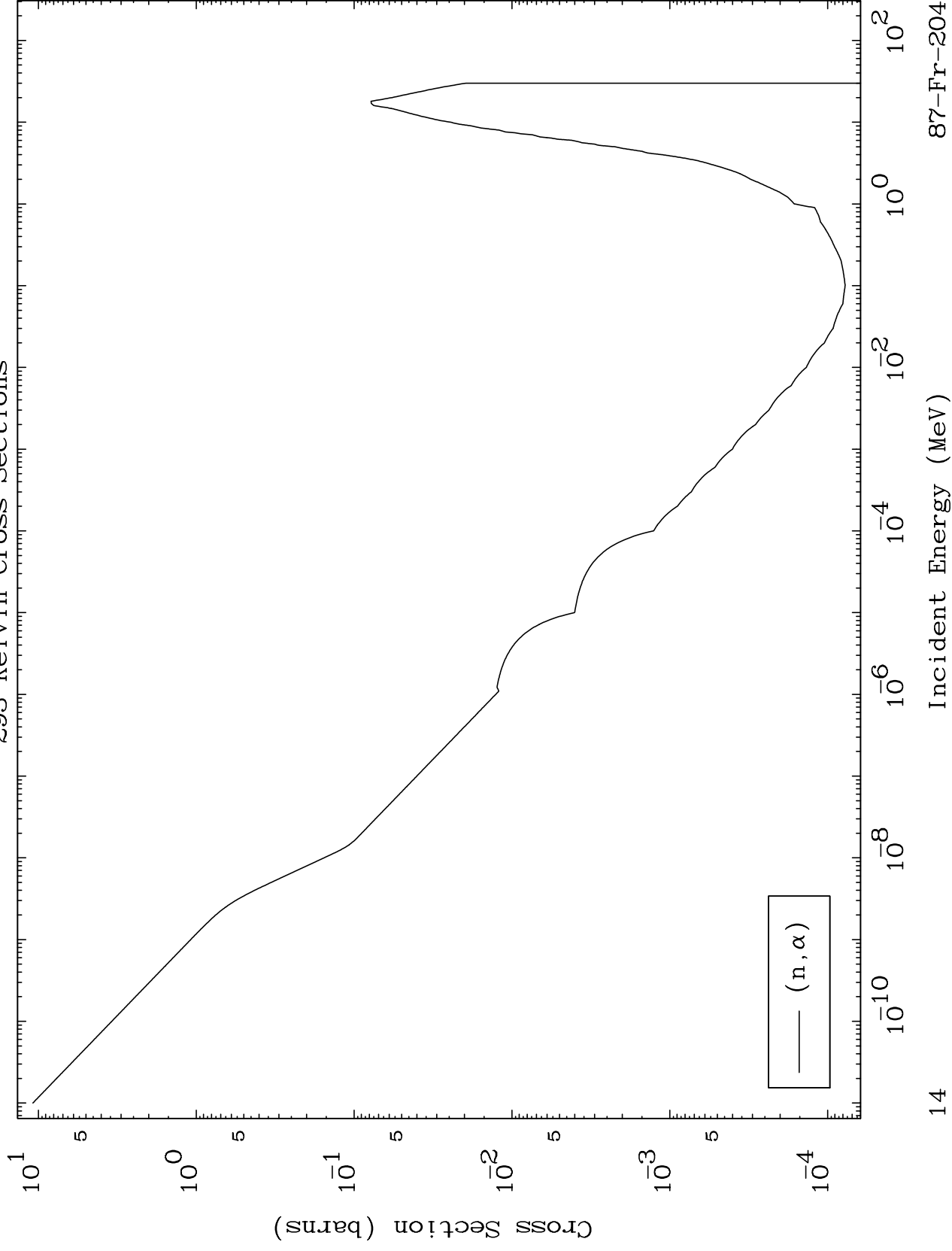
Incident Energy (MeV)

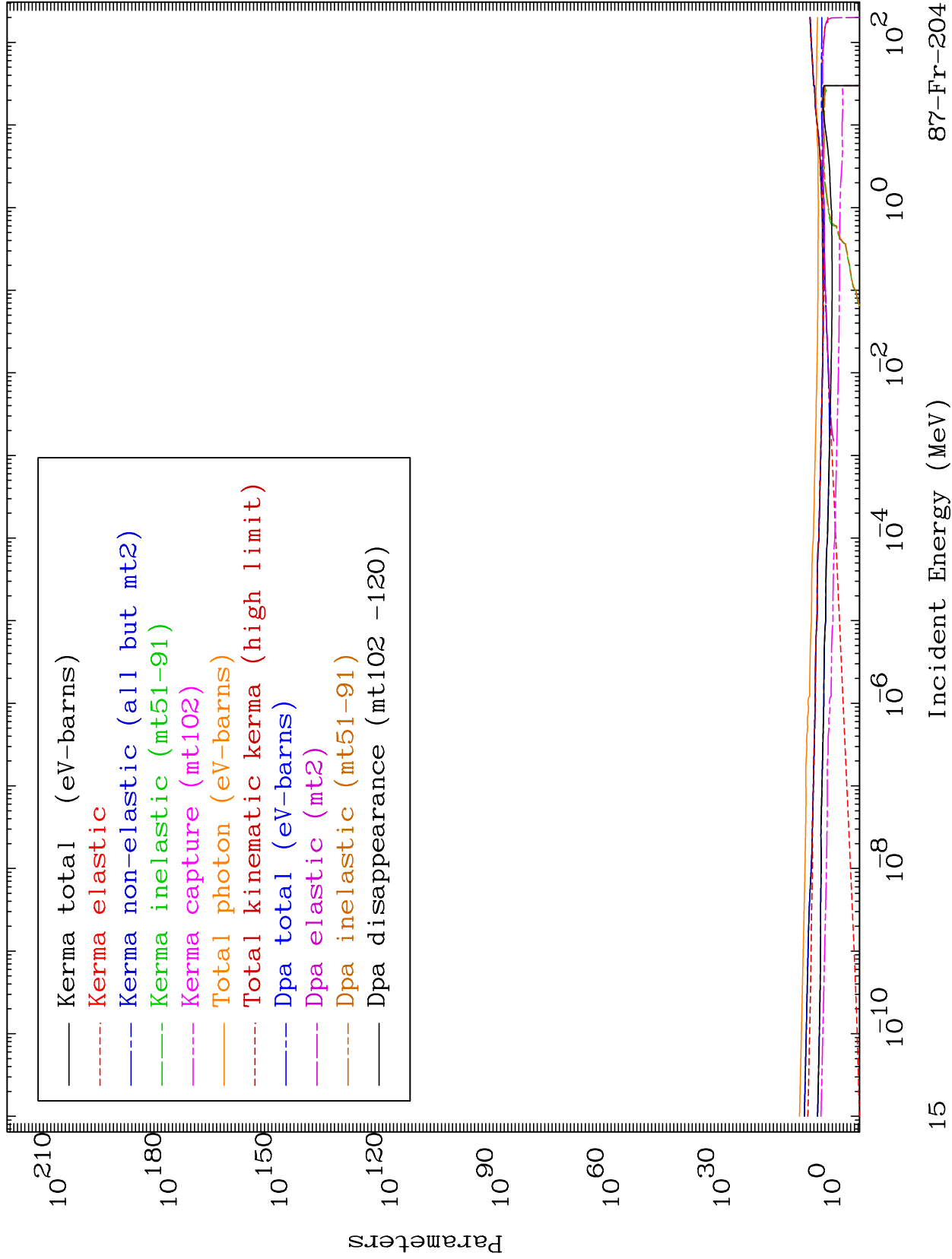
87-Fr-204

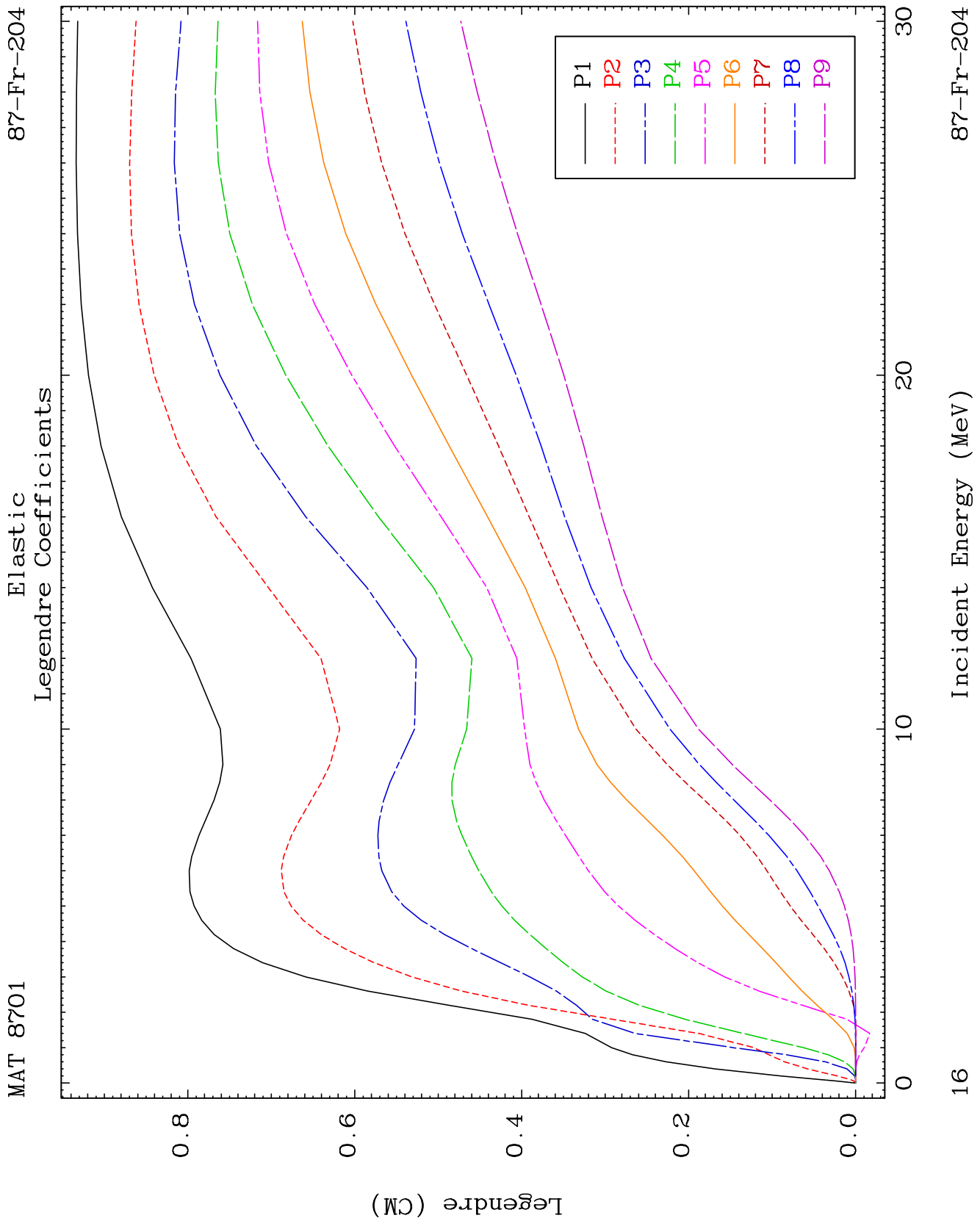
MAT 8701

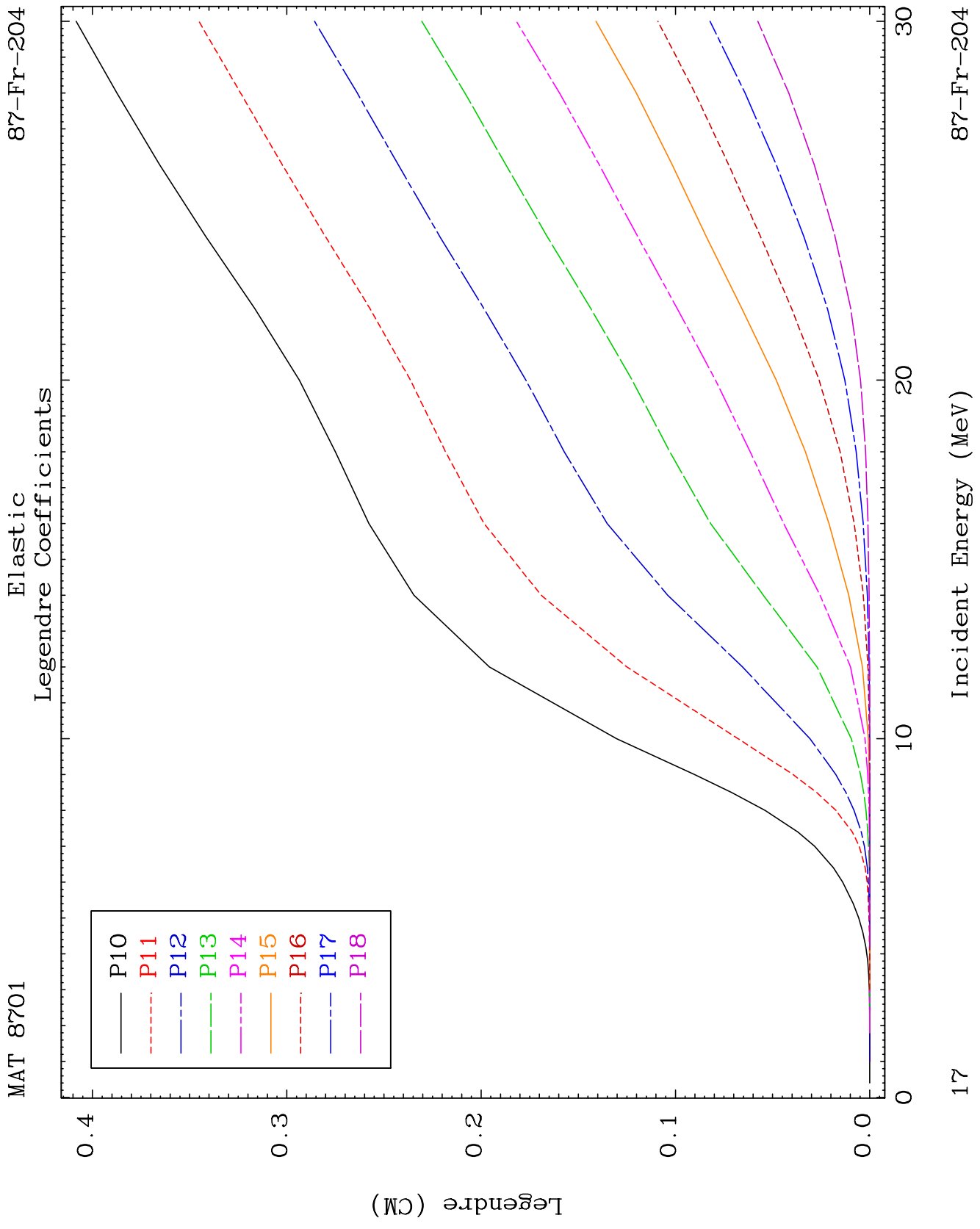
(n, α) Levels
293 Kelvin Cross Sections

87-Fr-204





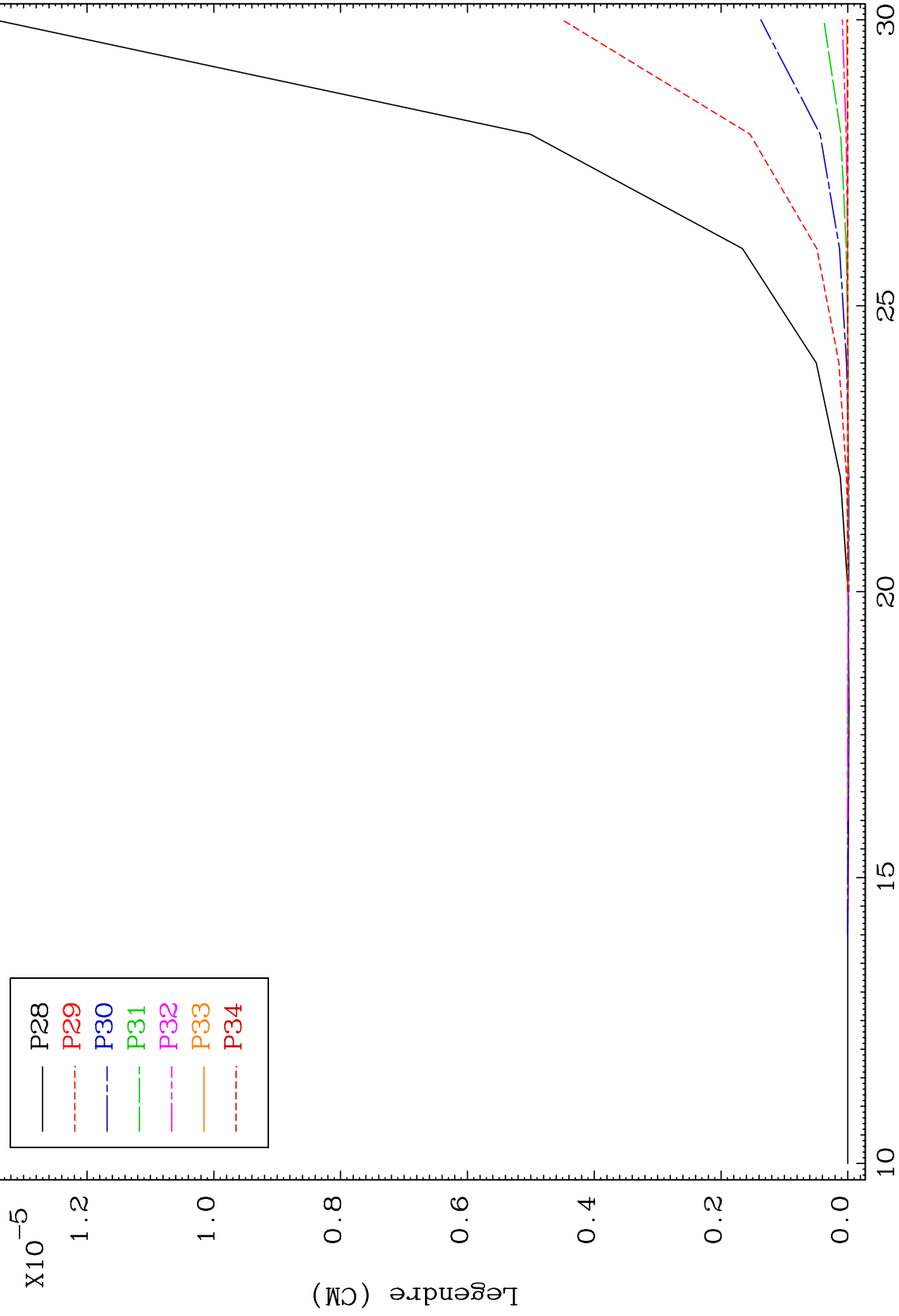
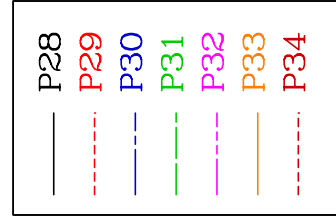




MAT 8701

Elastic Legendre Coefficients

87-Fr-204



10

15

20

25

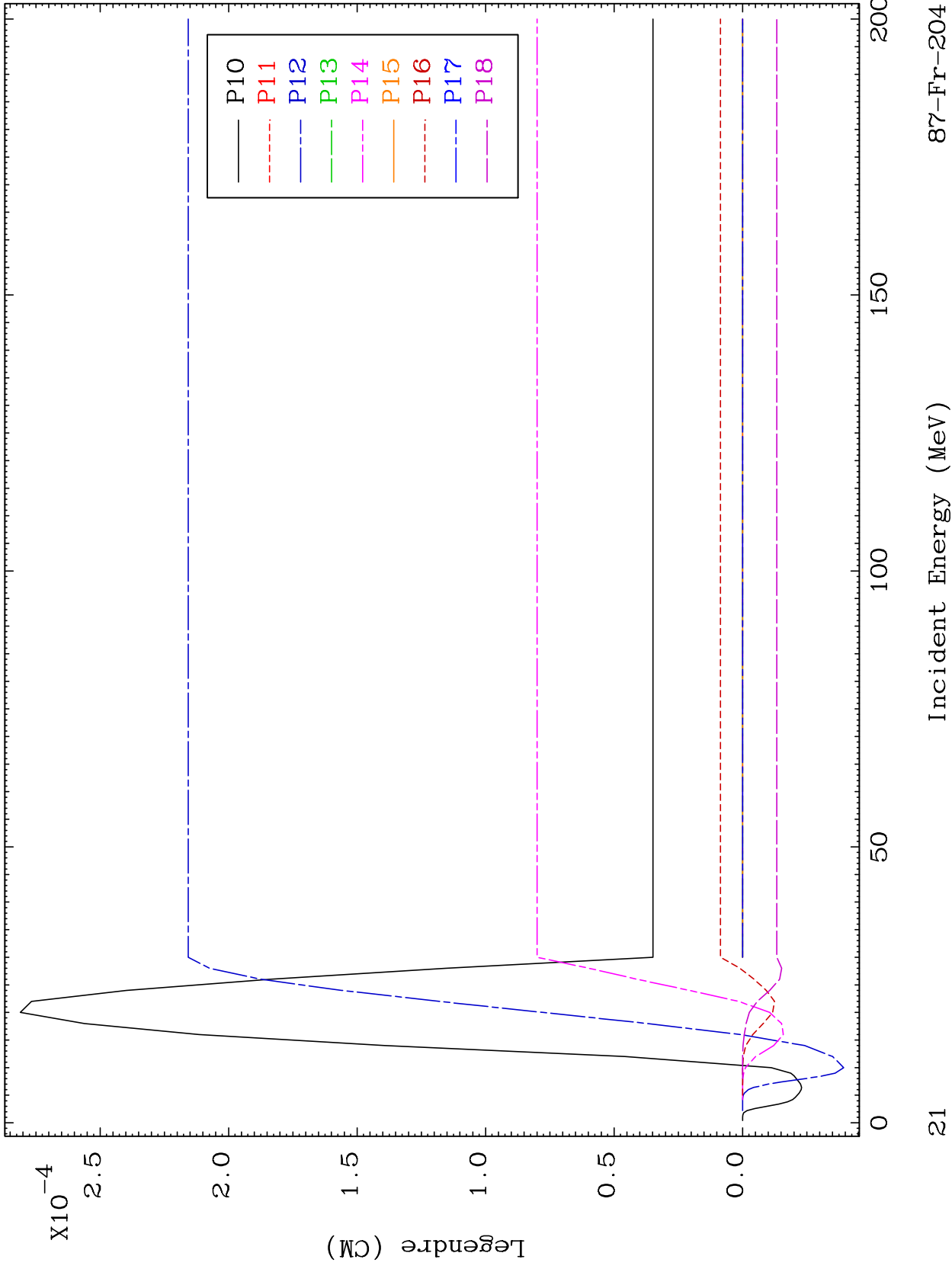
30

87-Fr-204

MAT 8701

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

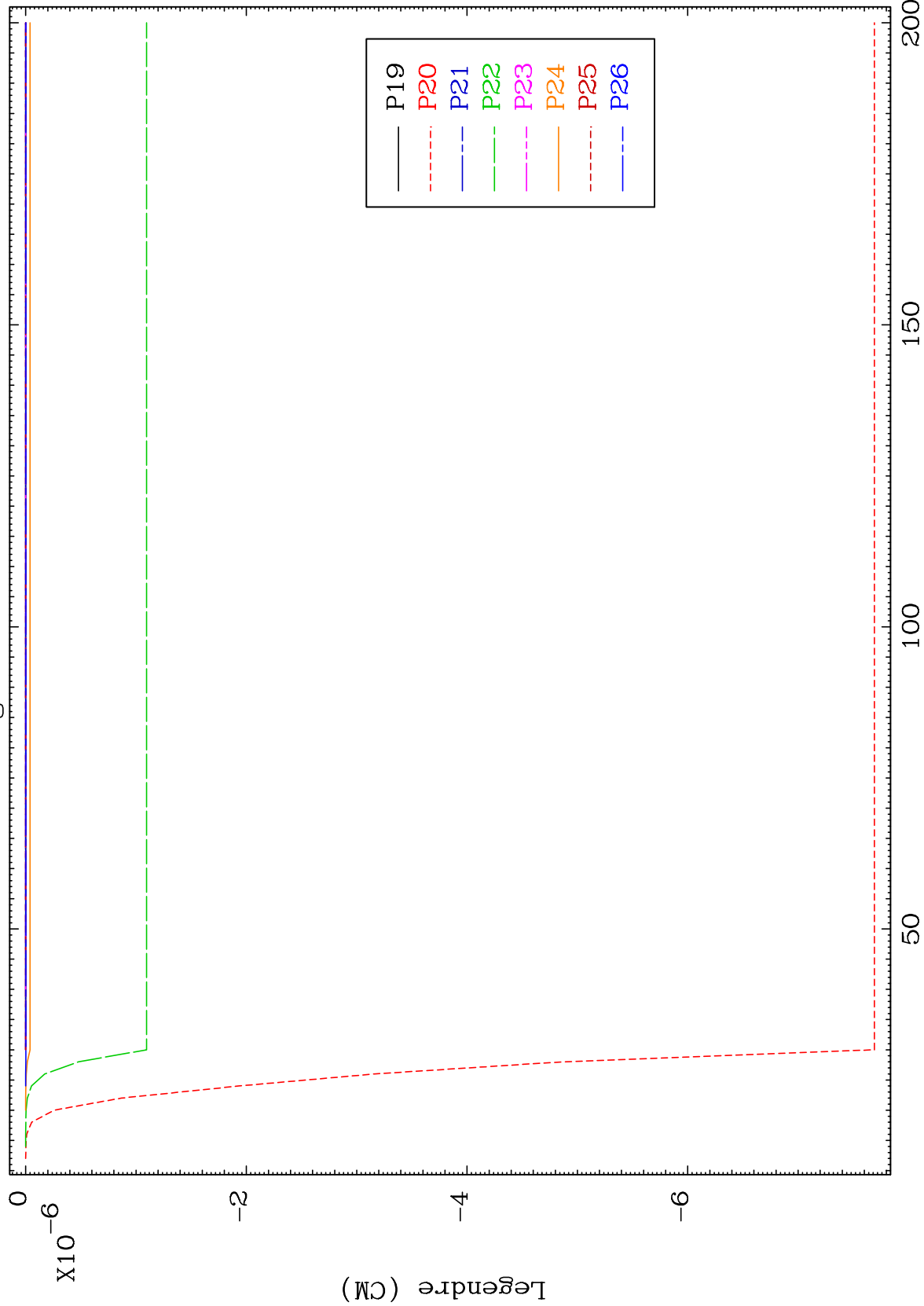
87-Fr-204



MAT 8701

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

87-Fr-204



87-Fr-204

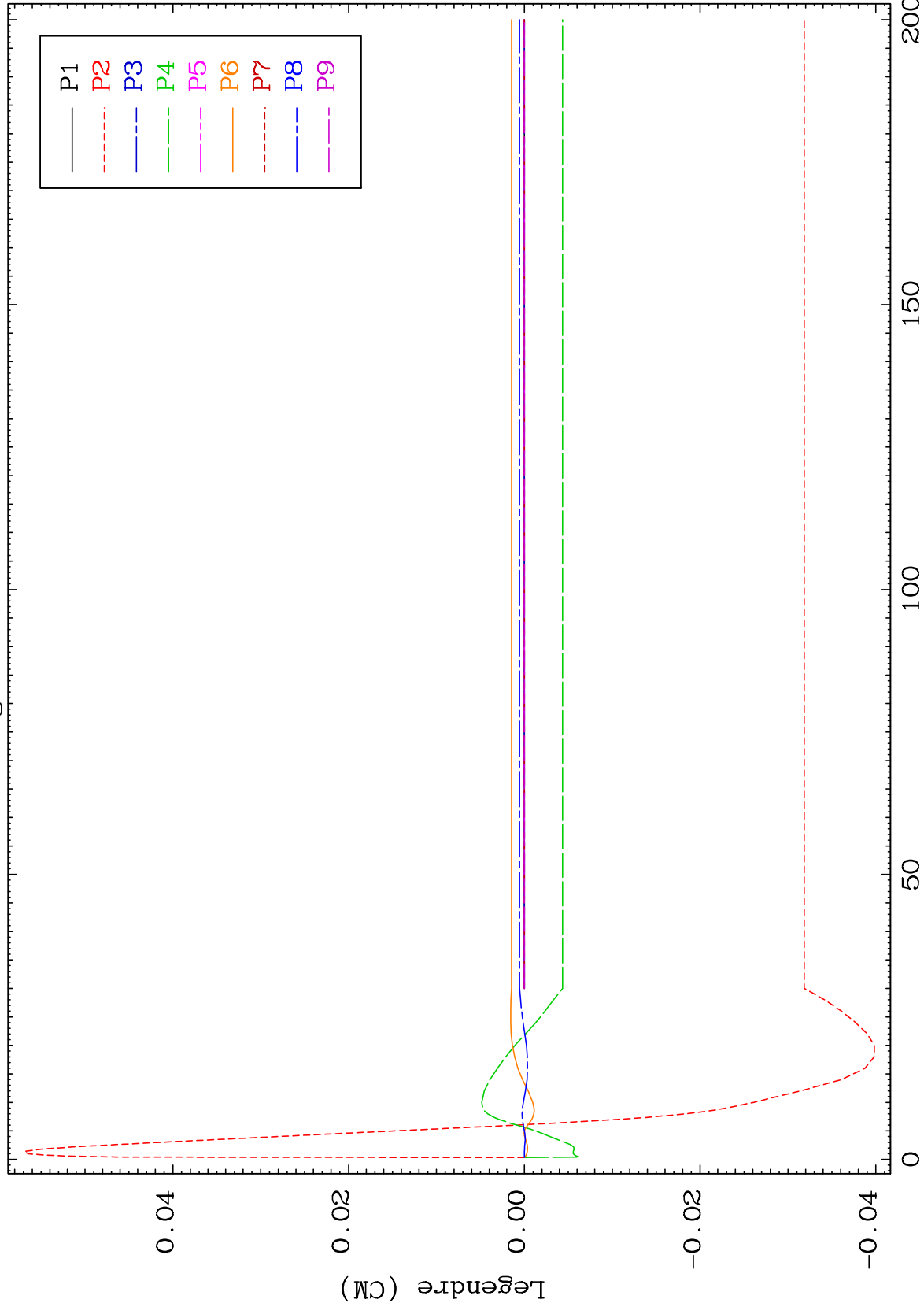
Incident Energy (MeV)

22

MAT 8701

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

87-Fr-204



23

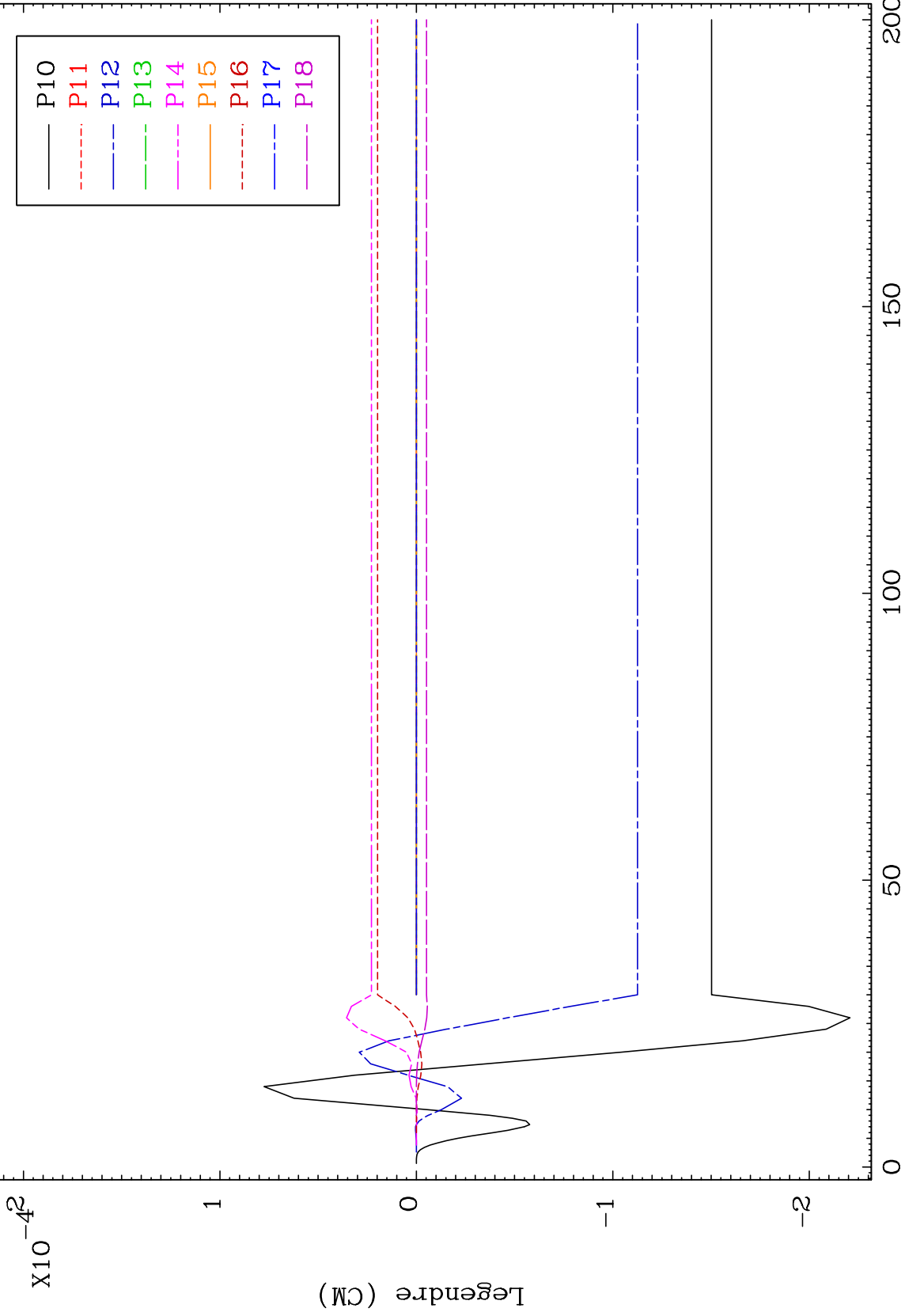
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

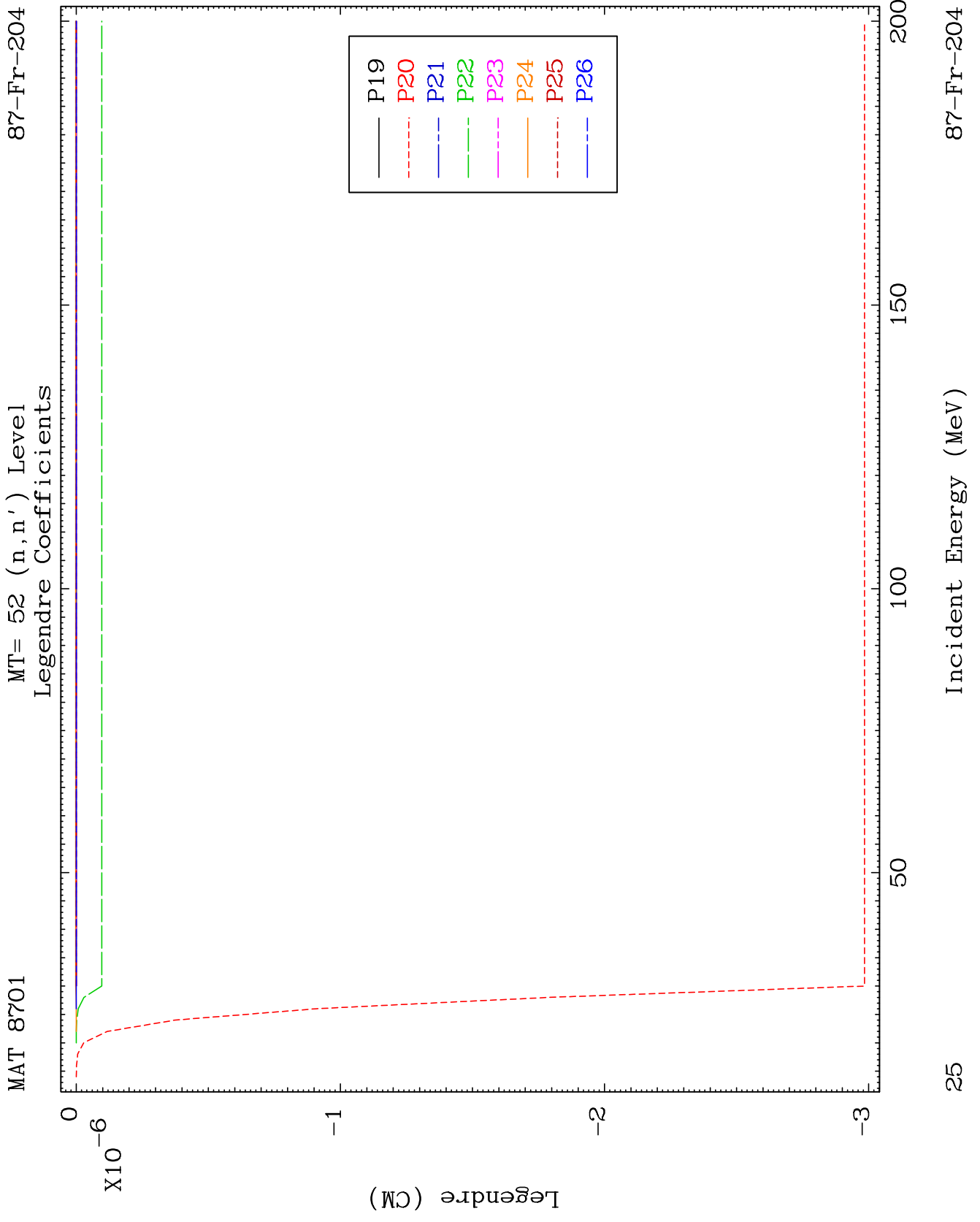
87-Fr-204



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Incident Energy (MeV)

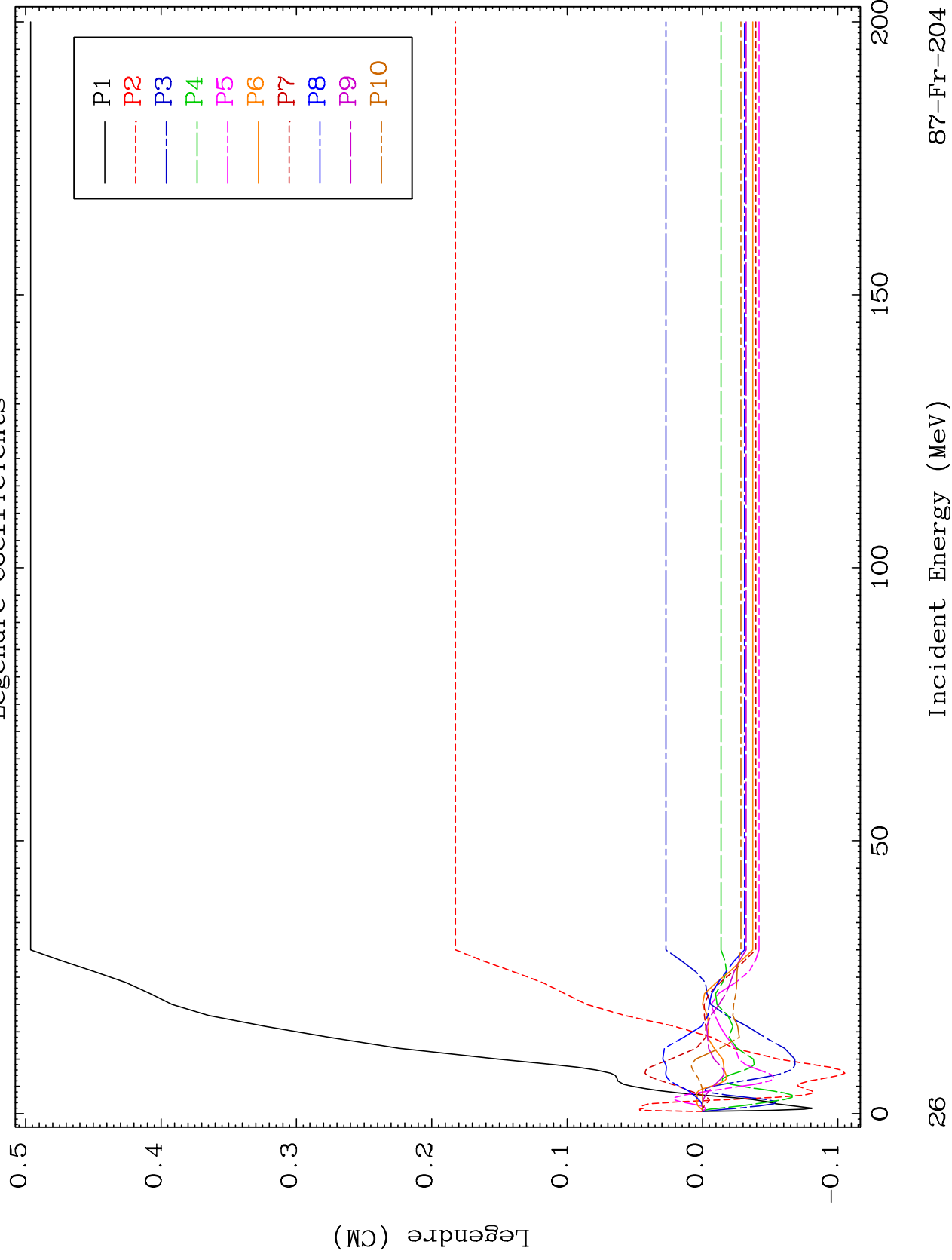
87-Fr-204



MAT 8701

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

87-Fr-204



87-Fr-204

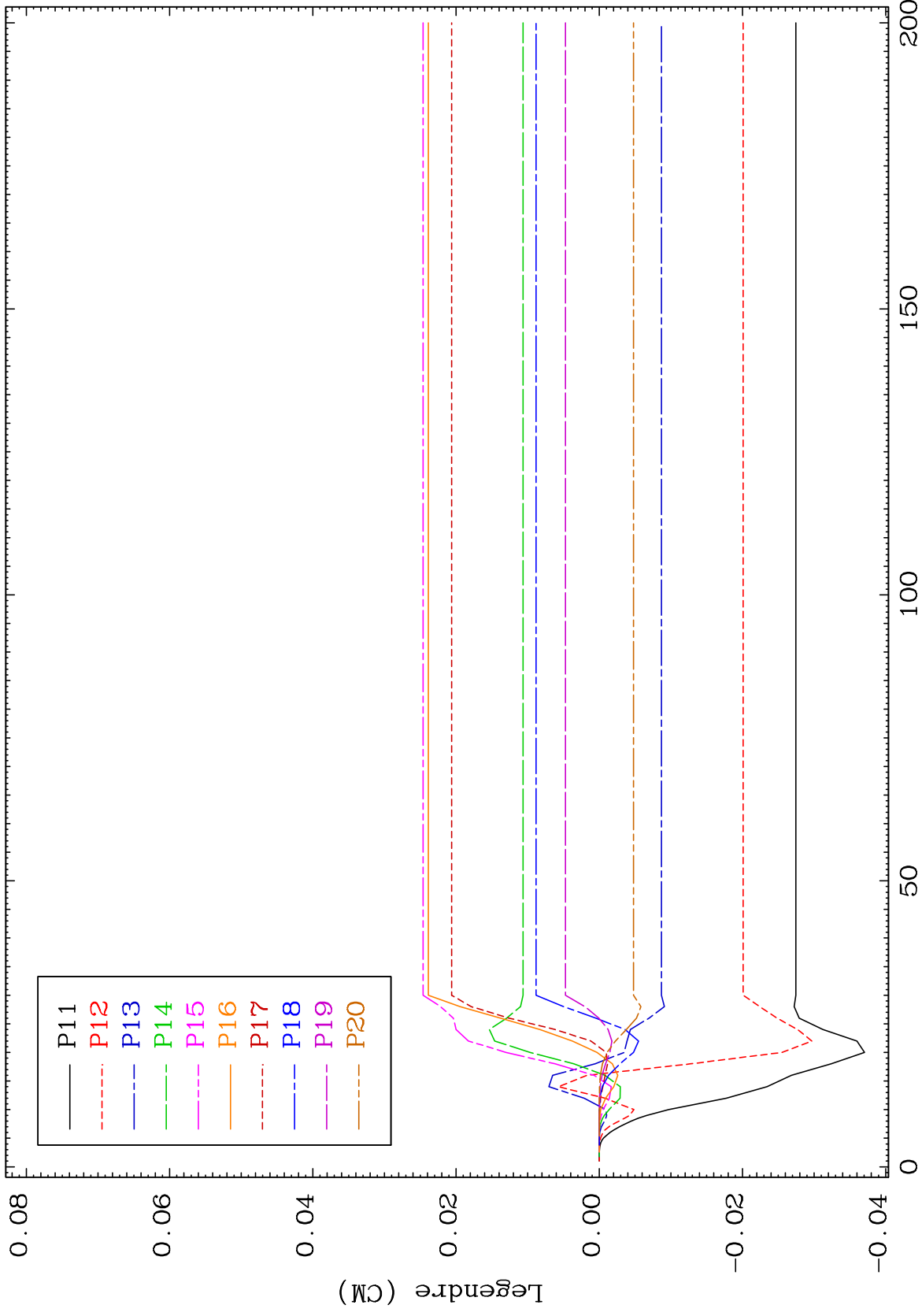
Incident Energy (MeV)

26

MAT 8701

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

87-Fr-204



27

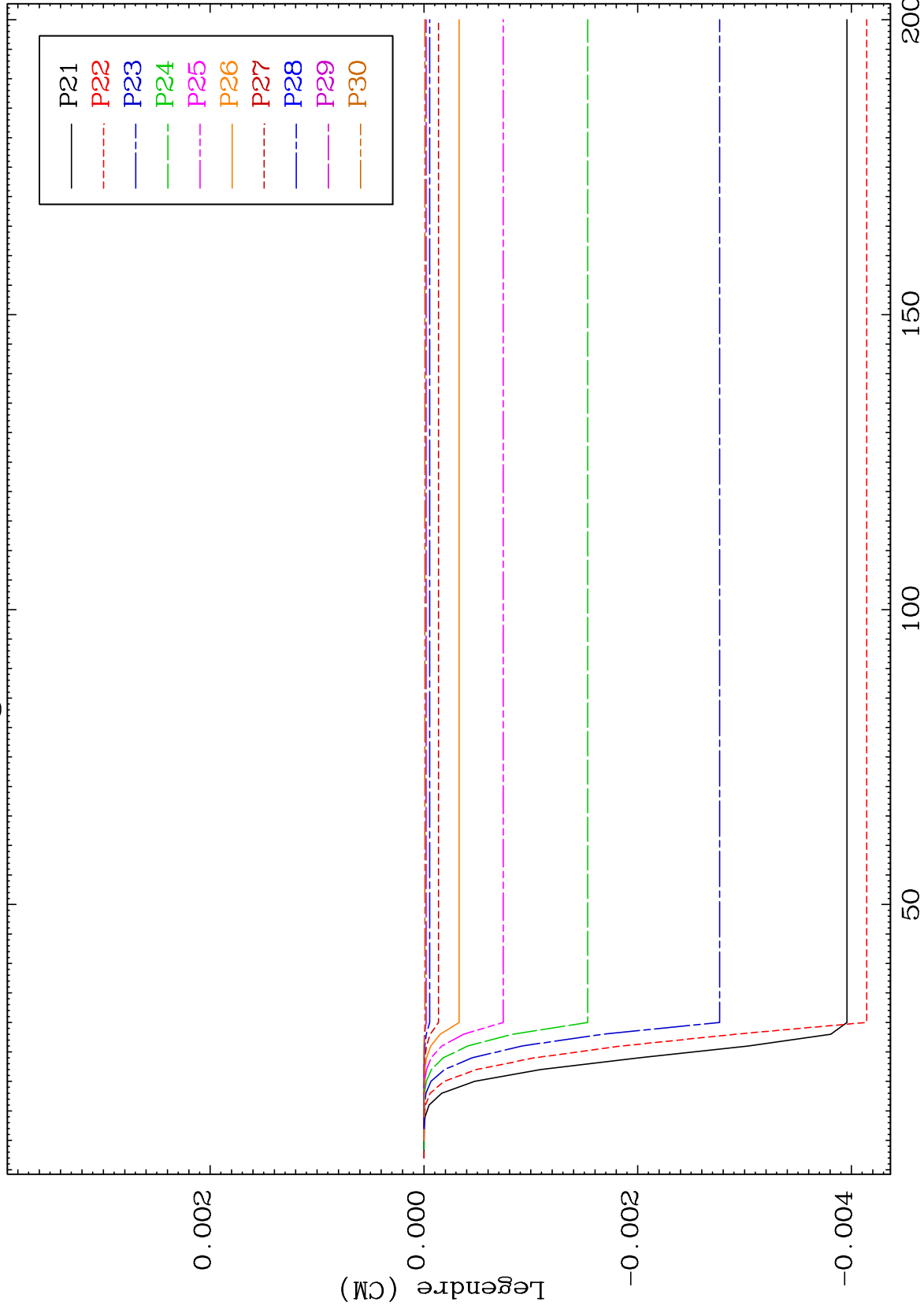
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

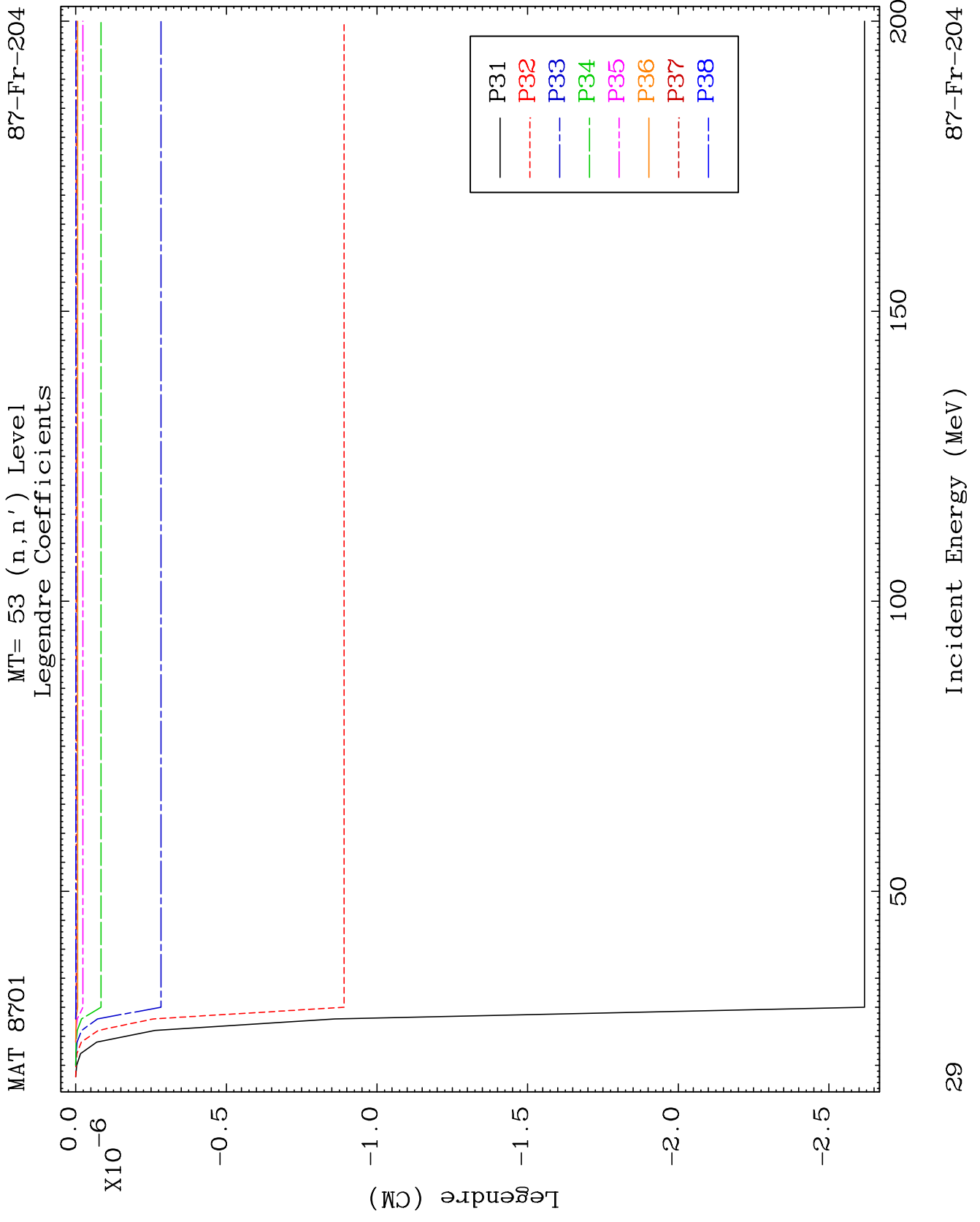
87-Fr-204



28

Incident Energy (MeV)

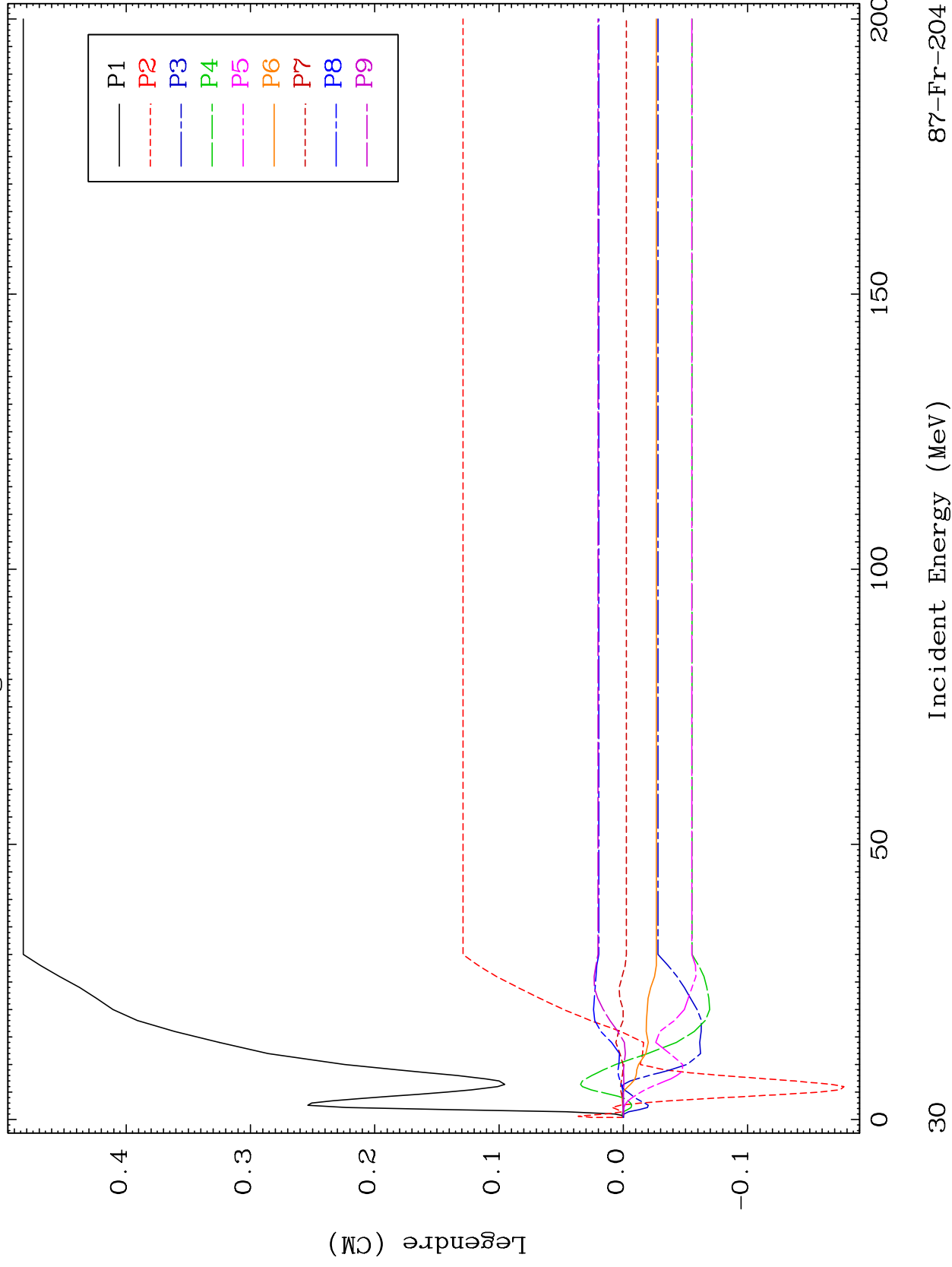
87-Fr-204



MAT 8701

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

87-Fr-204



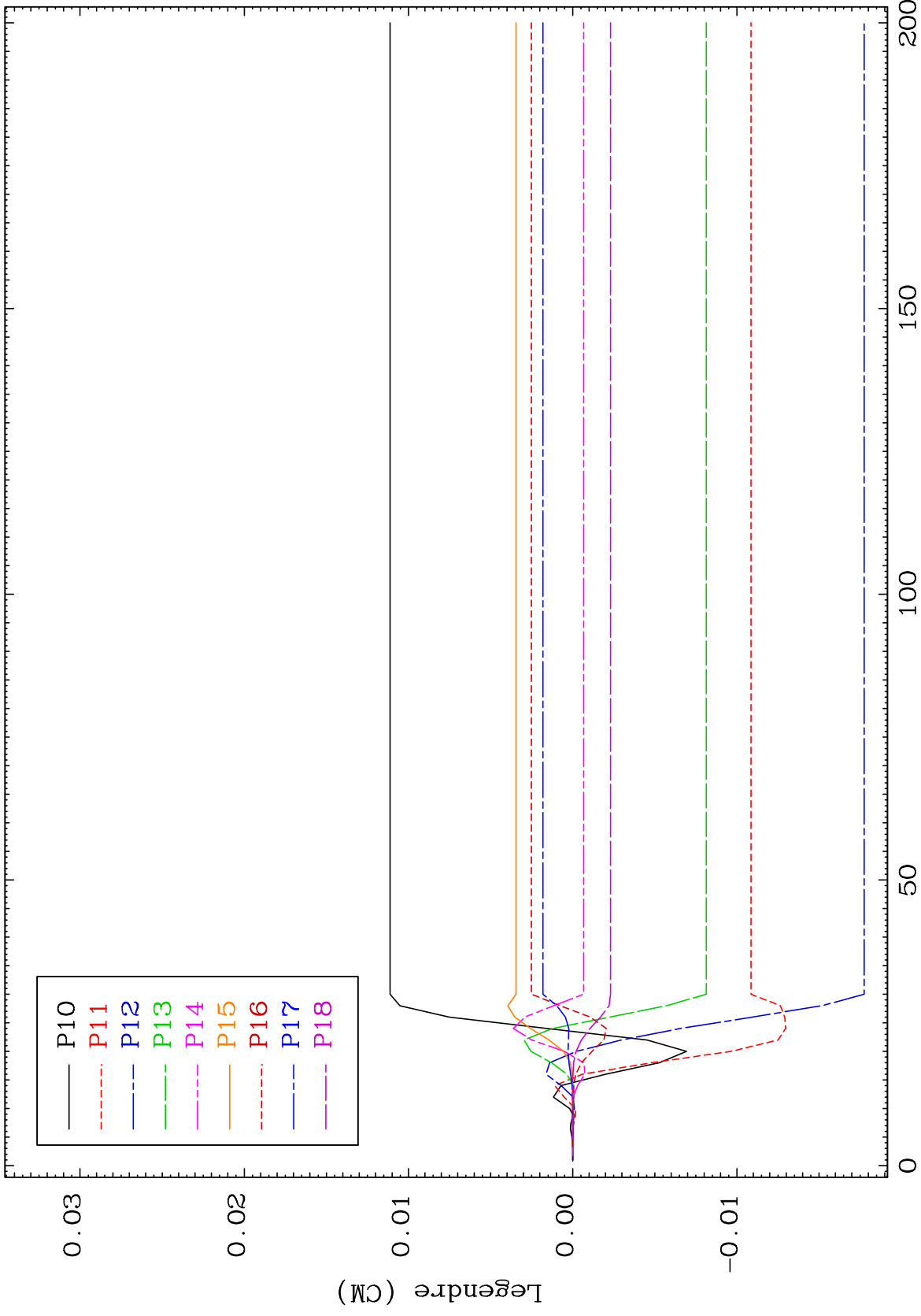
87-Fr-204

Incident Energy (MeV)

MAT 8701

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

87-Fr-204



31

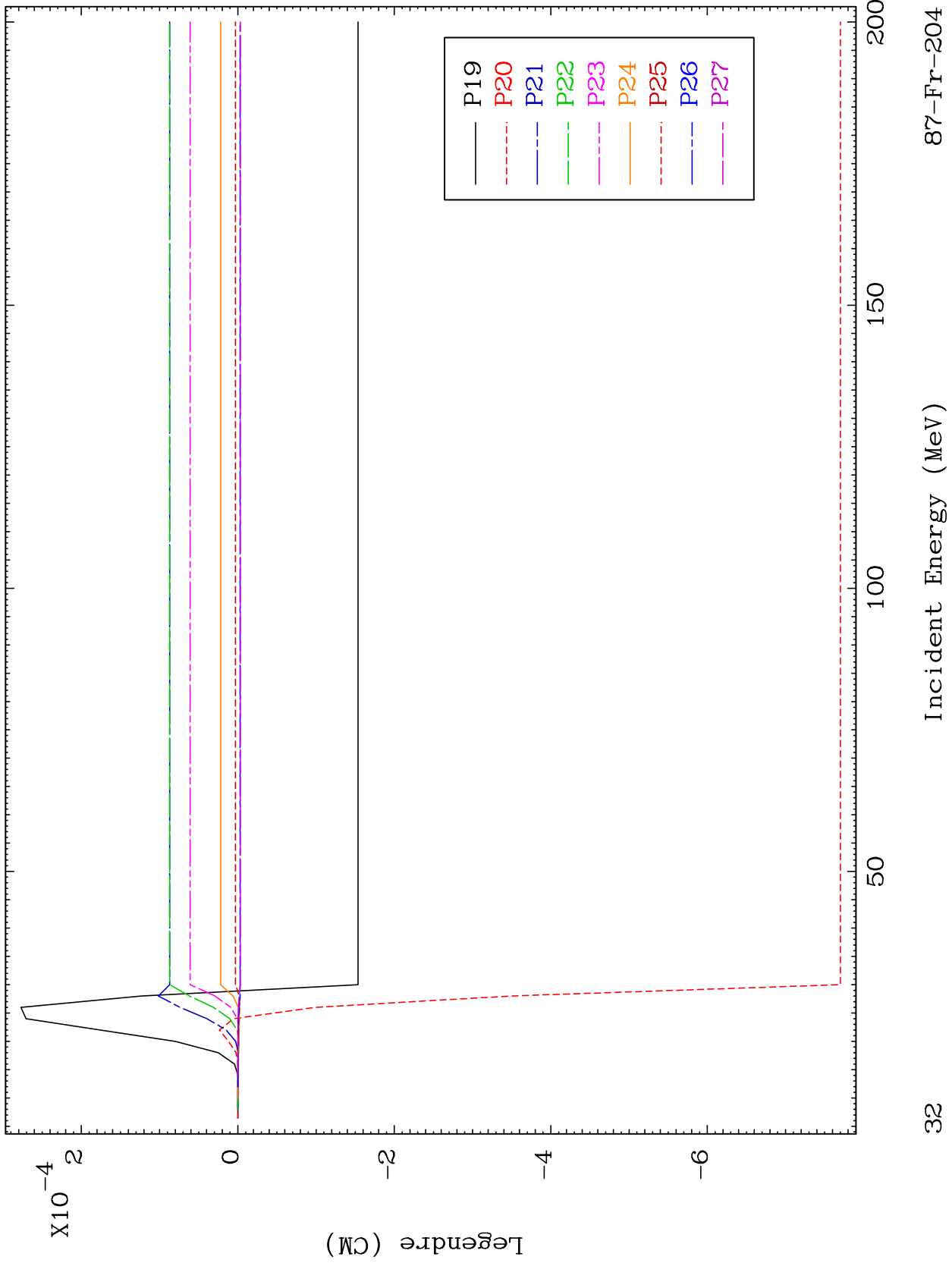
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

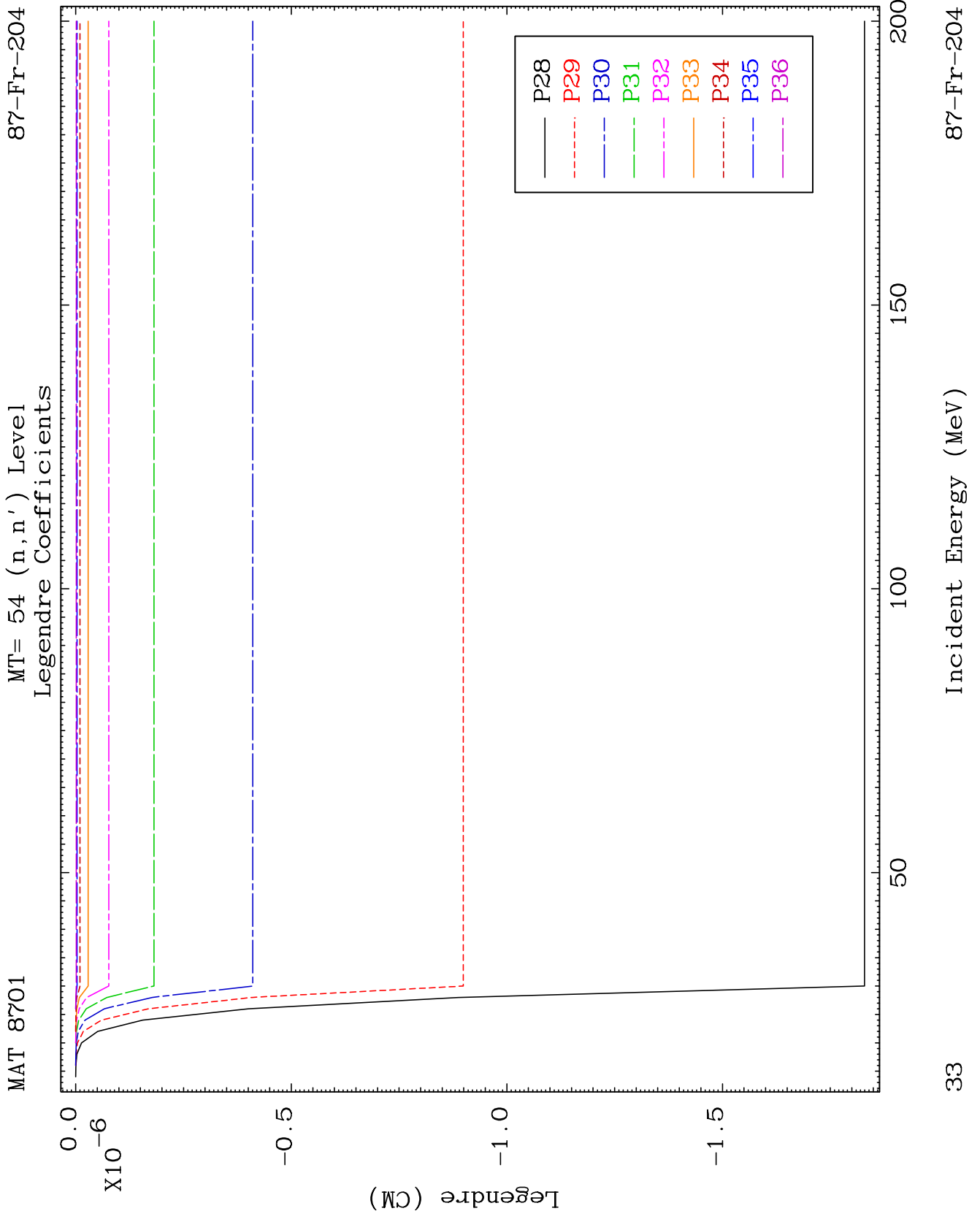
87-Fr-204



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Incident Energy (MeV)

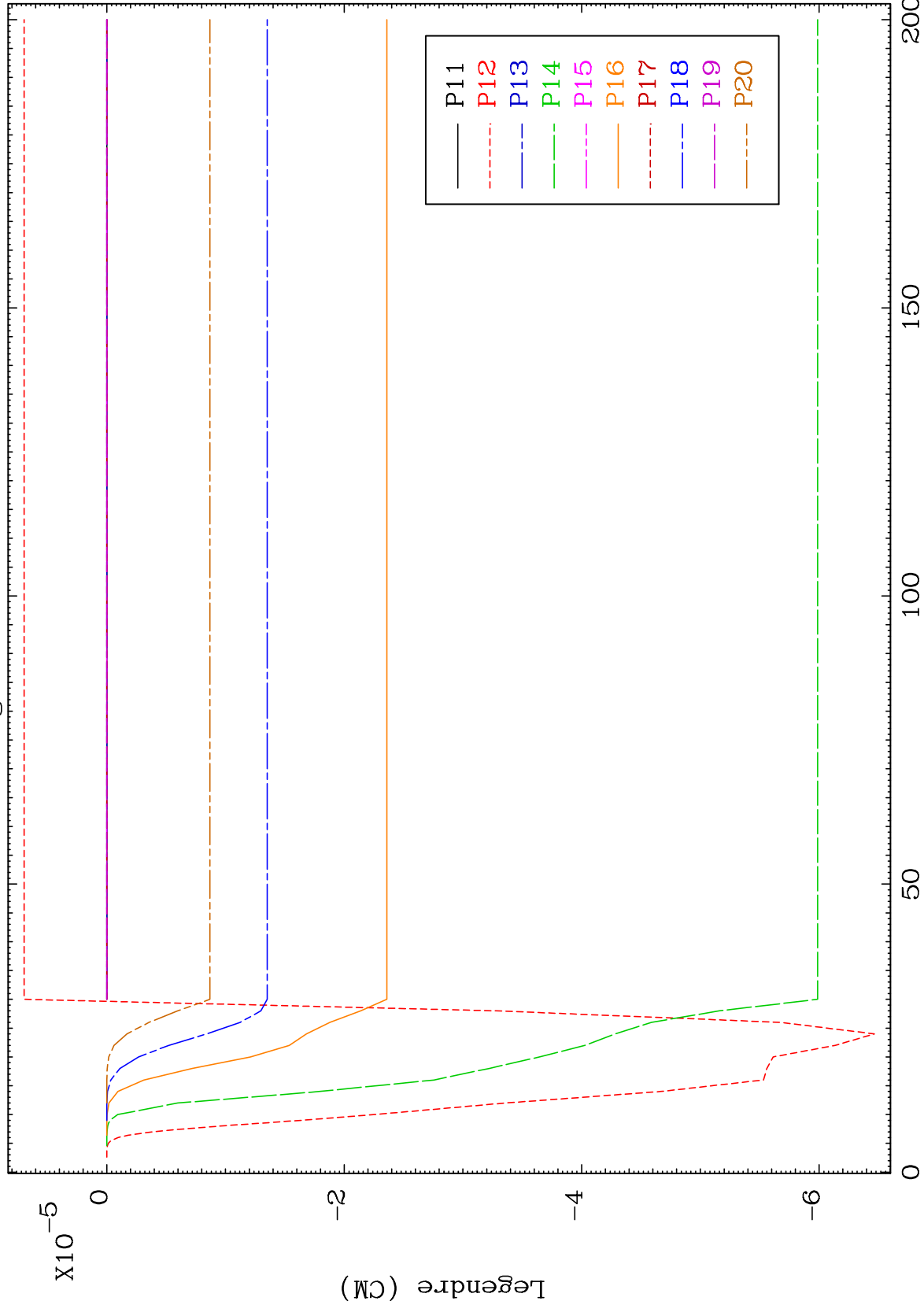
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MAT 8701

87-Fr-204

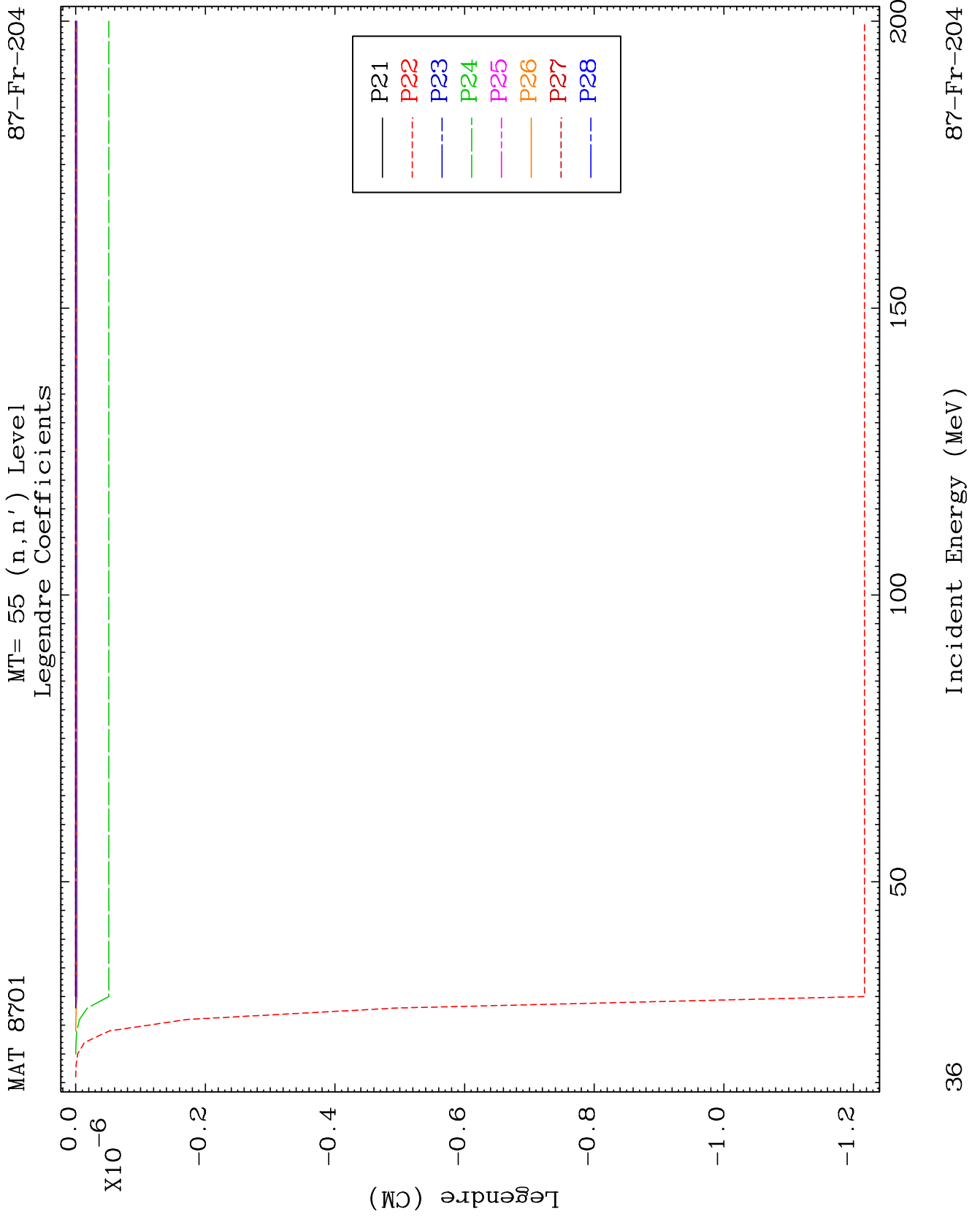
MT= 55 (n,n') Level
Legendre Coefficients



35

Incident Energy (MeV)

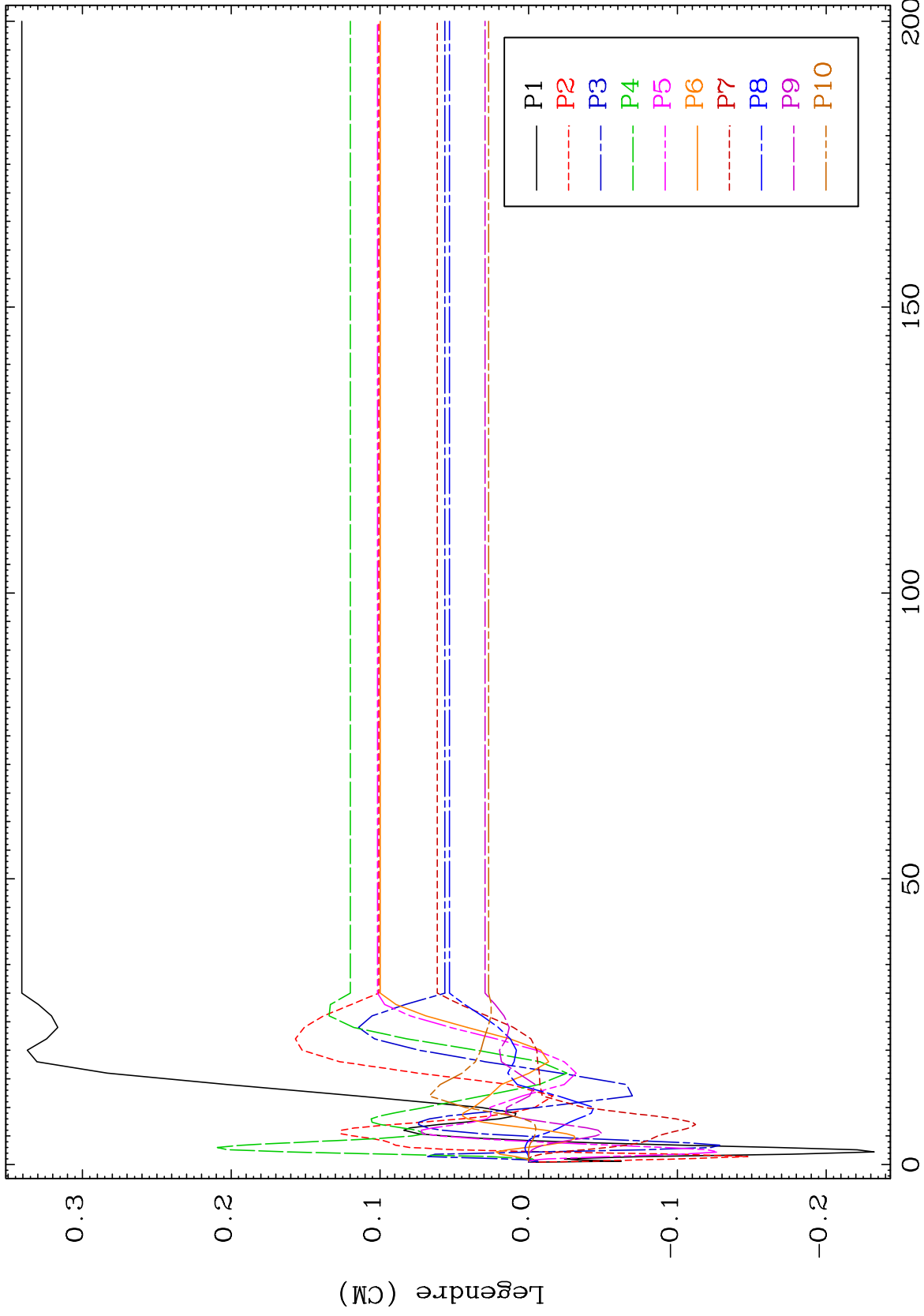
87-Fr-204



MAT 8701

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

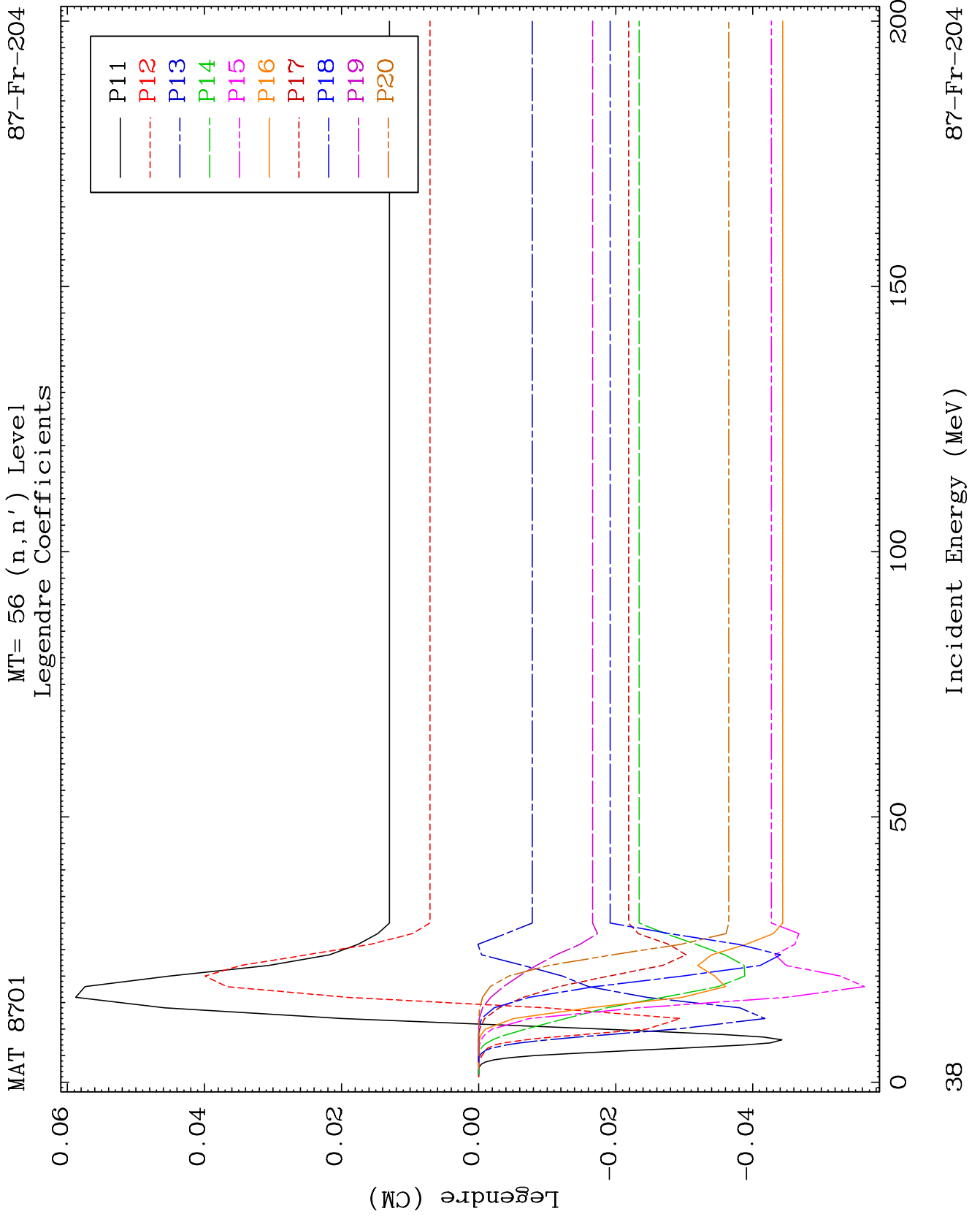
87-Fr-204



37

Incident Energy (MeV)

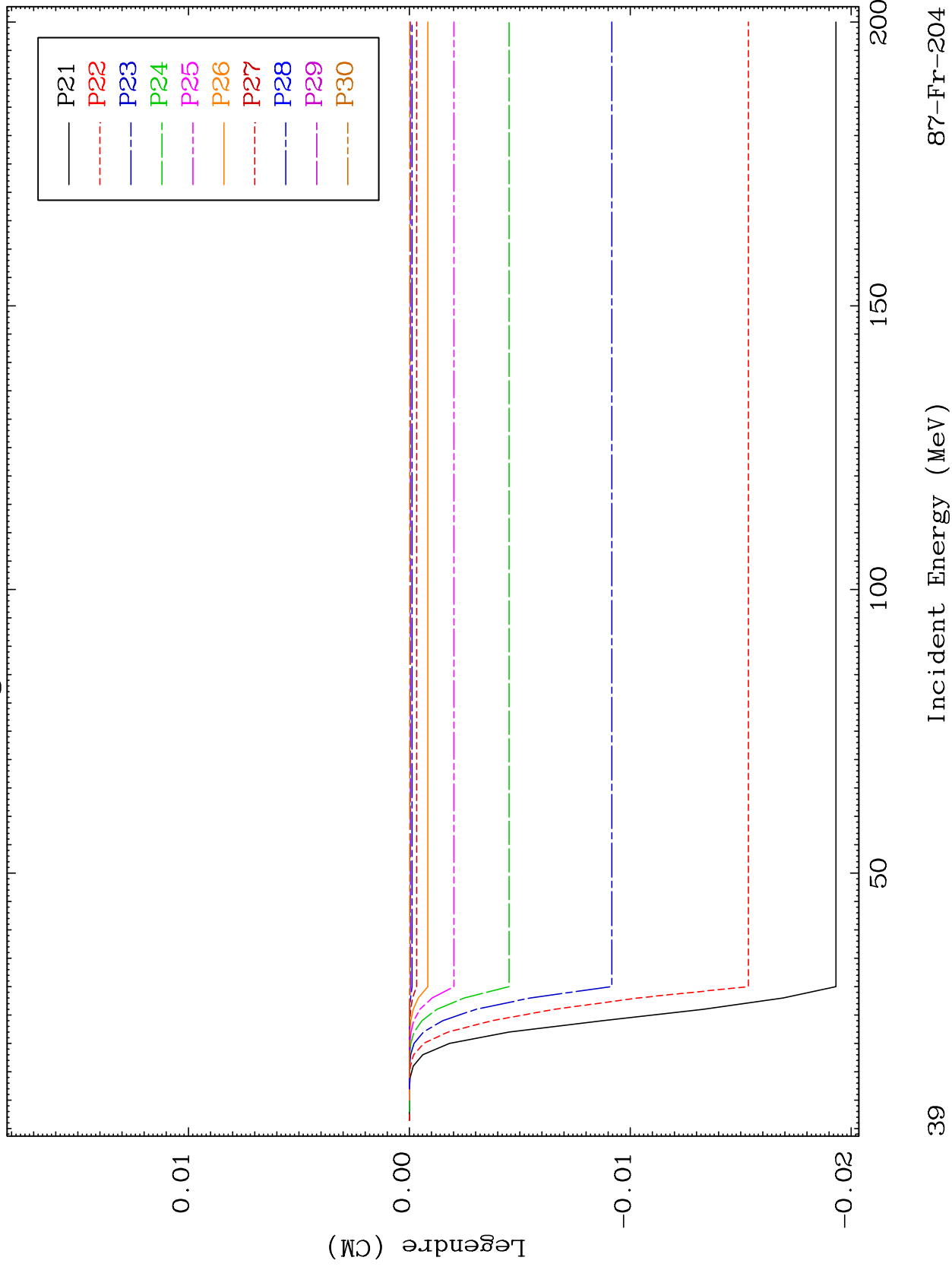
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MAT 8701

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

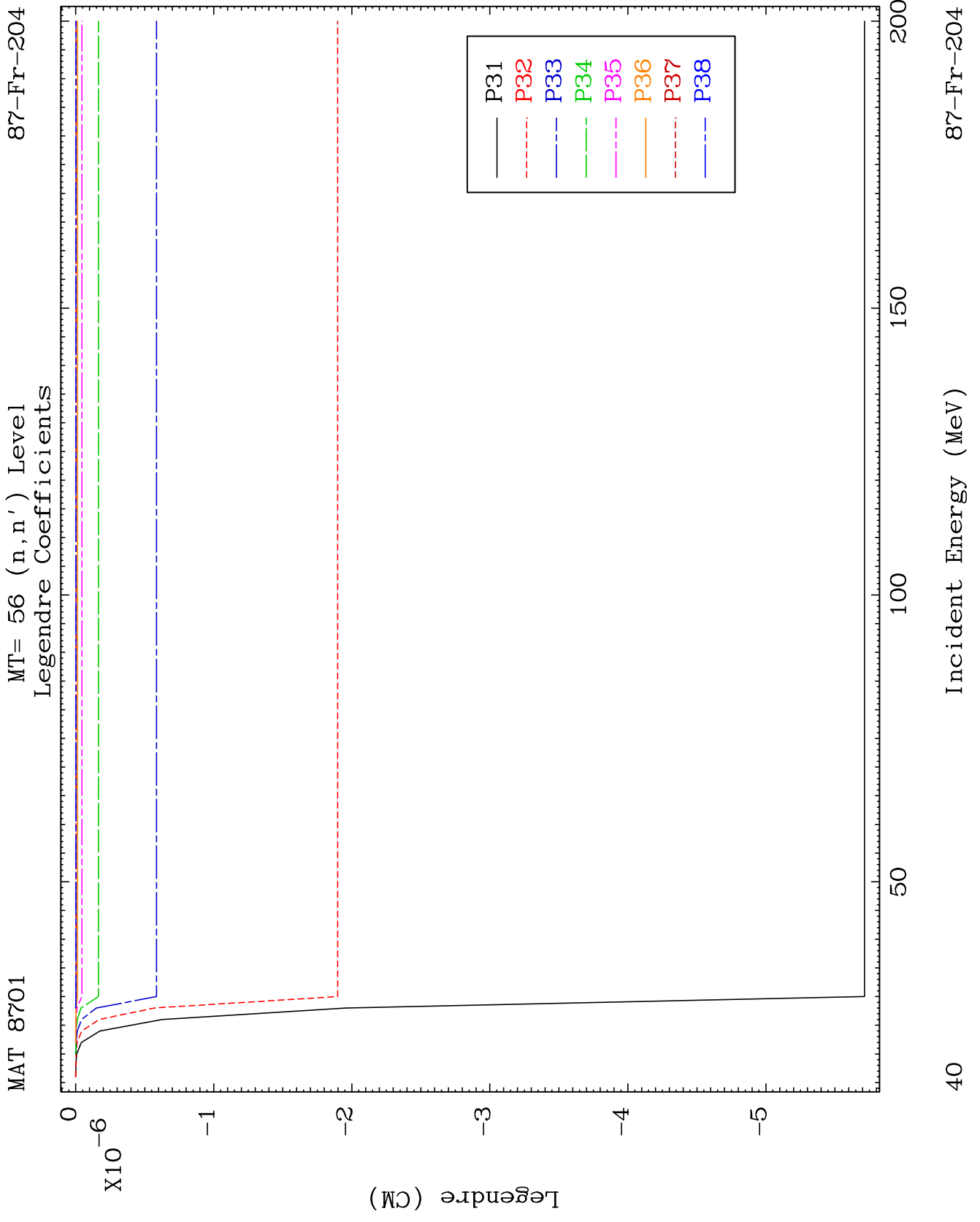
87-Fr-204



39

Incident Energy (MeV)

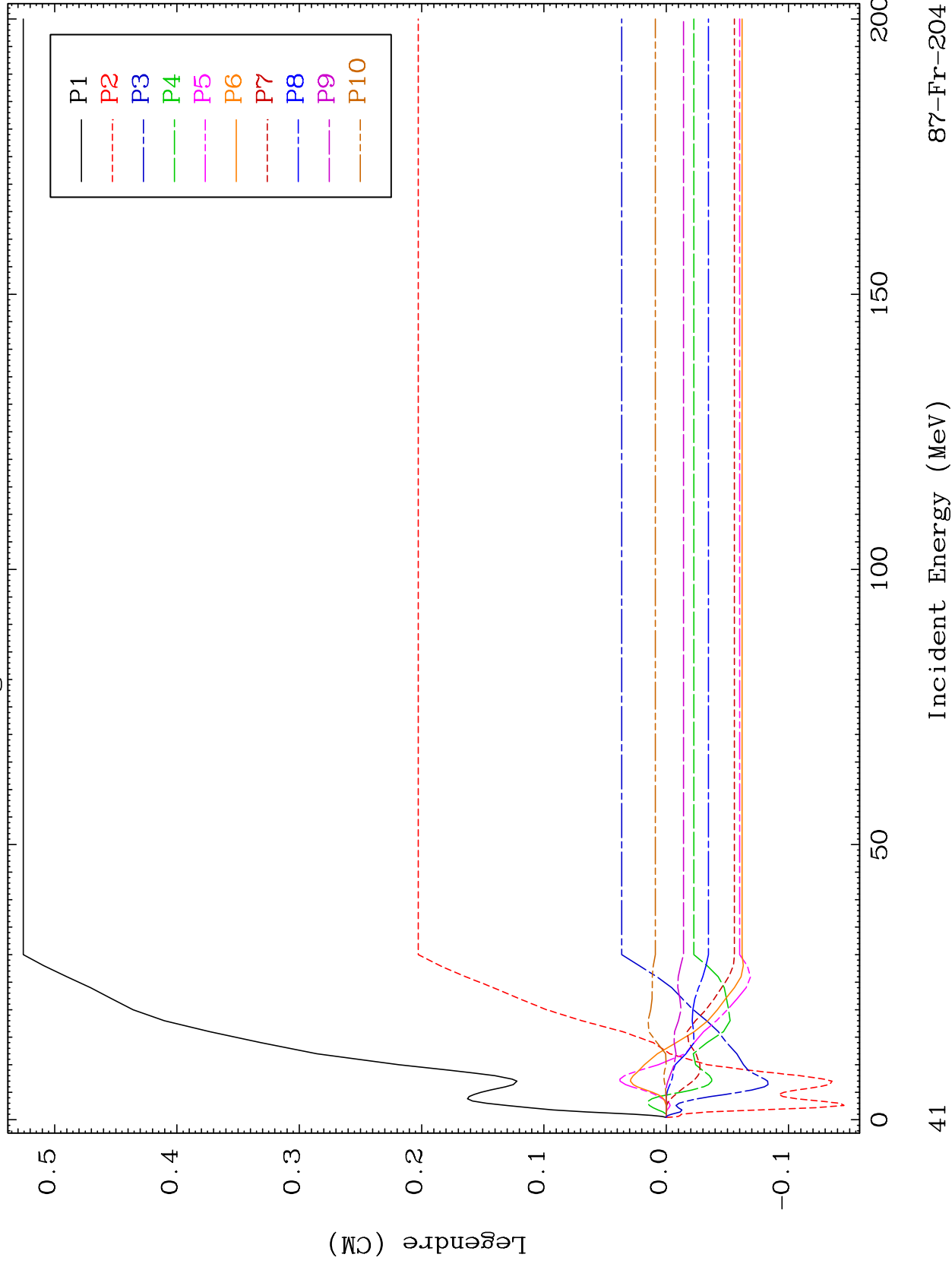
87-Fr-204



MAT 8701

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

87-Fr-204



41

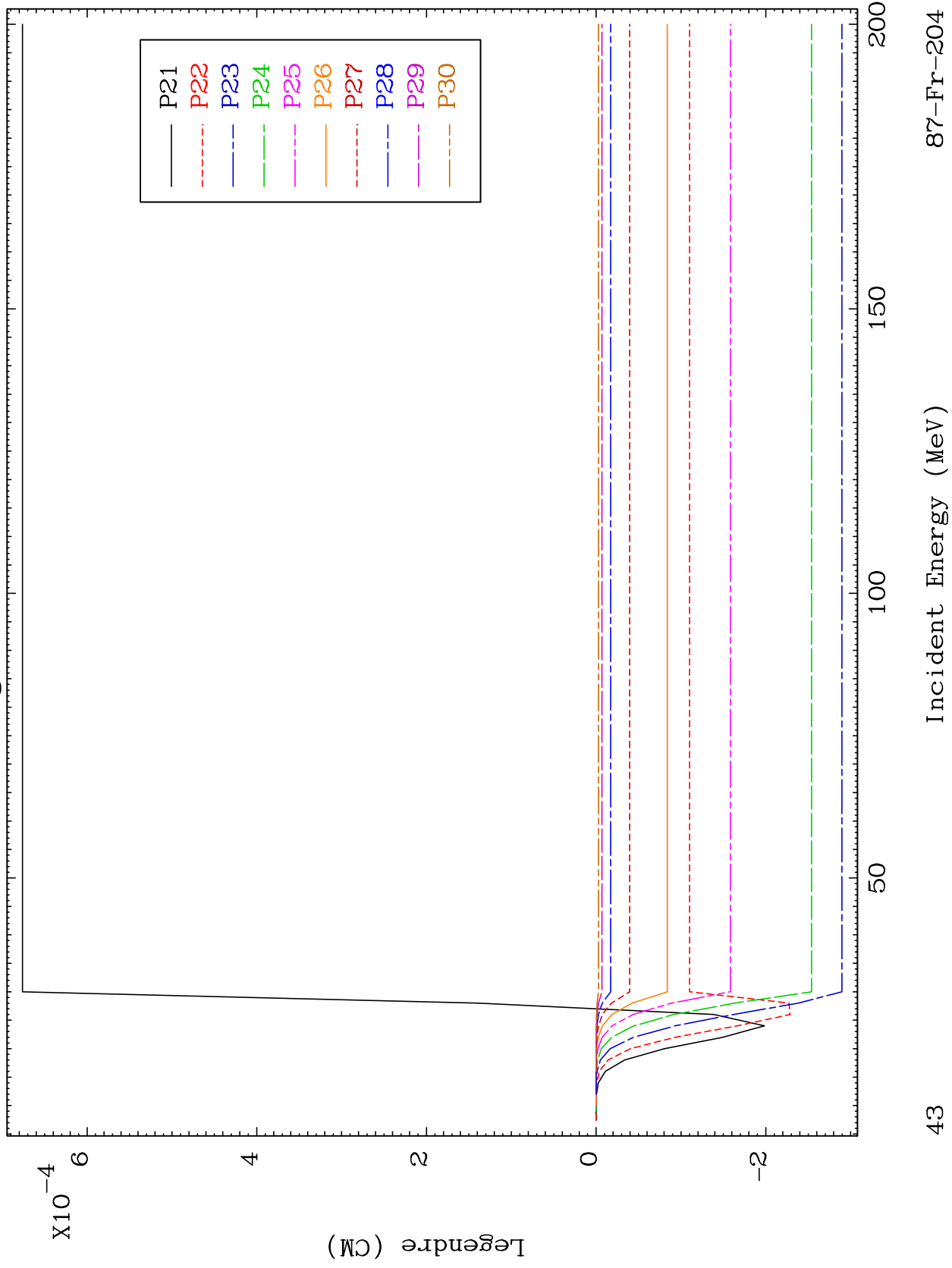
Incident Energy (MeV)

87-Fr-204

MAT 8701

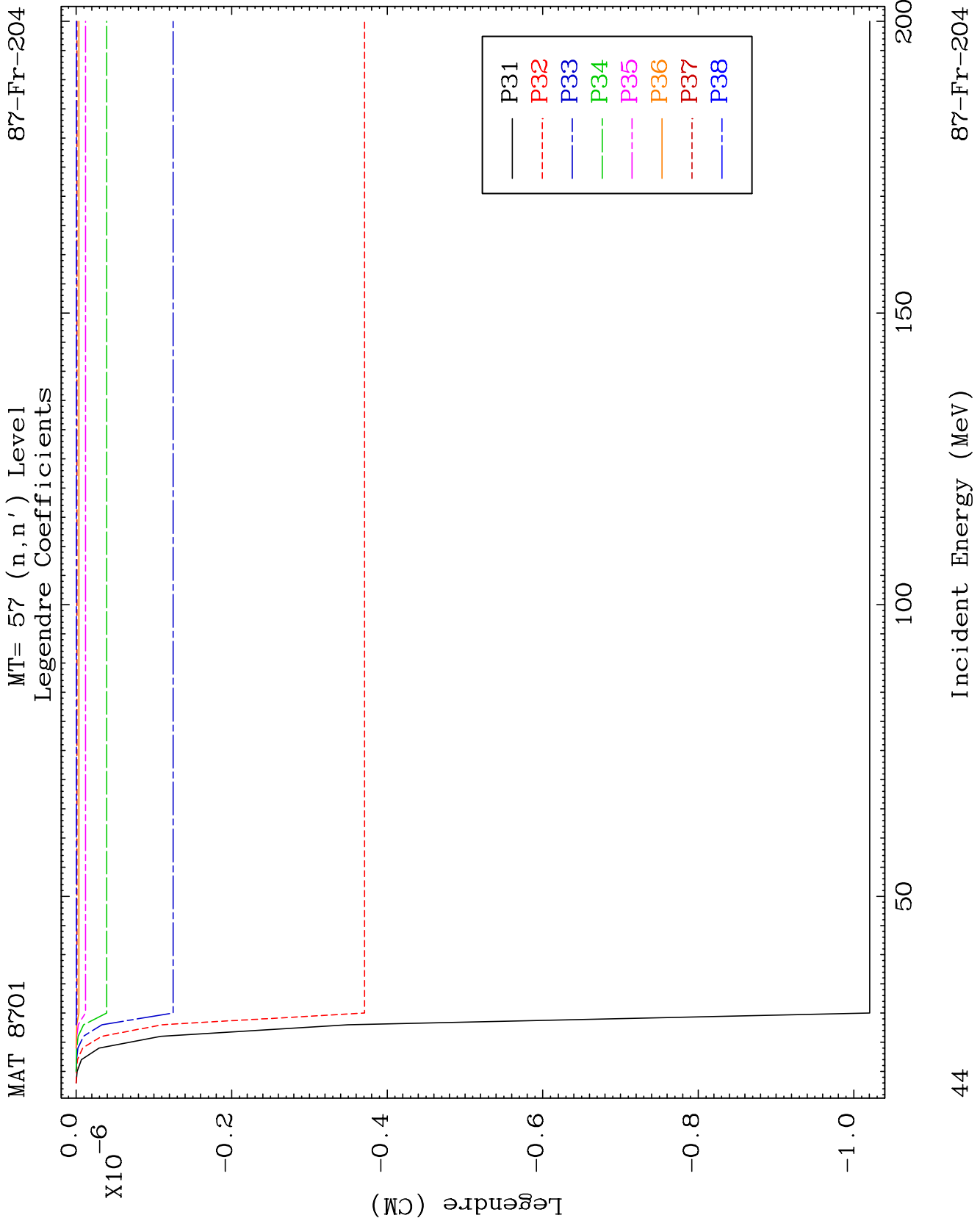
MT= 57 (n,n') Level
Legendre Coefficients

87-Fr-204



43

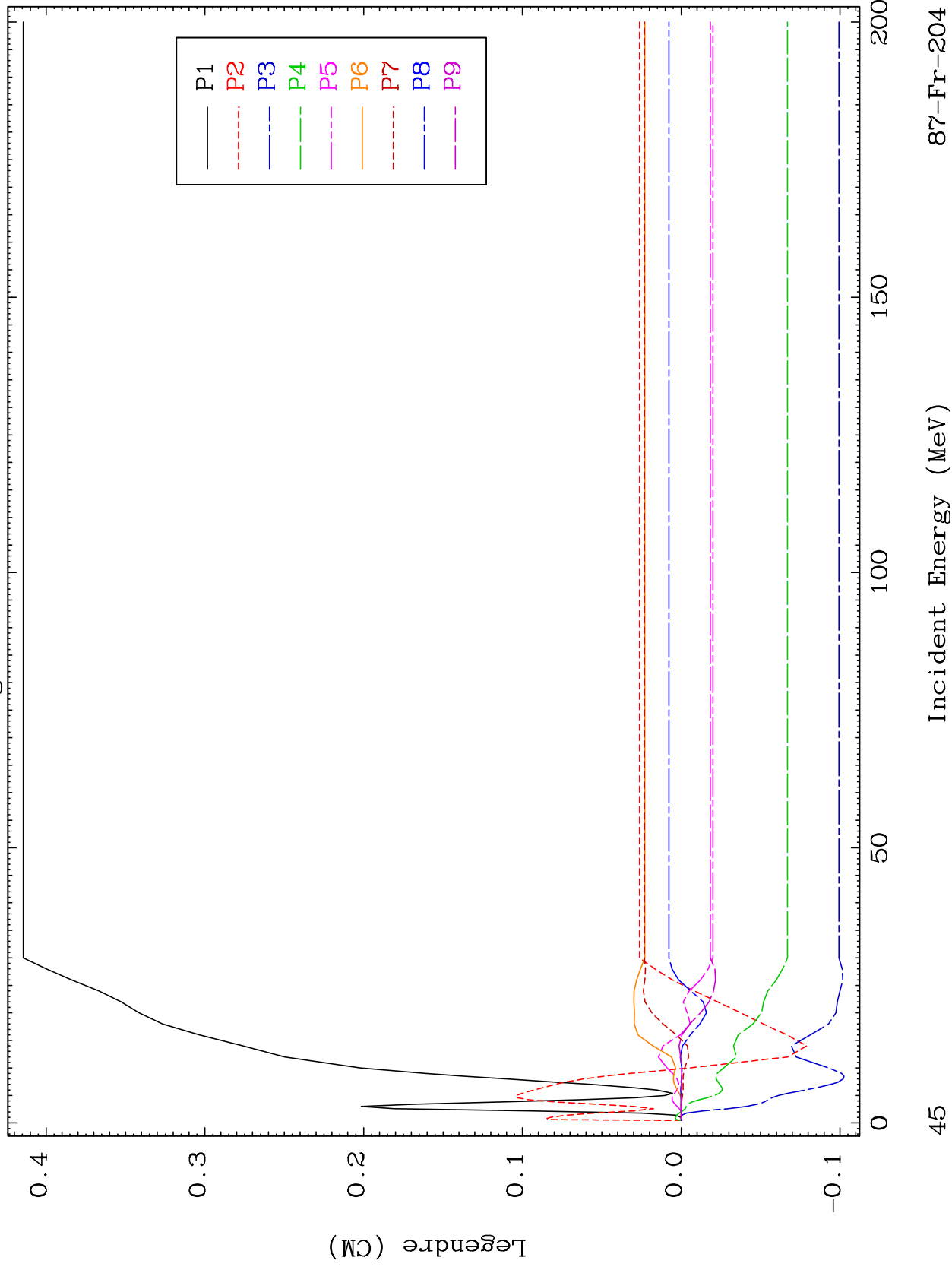
87-Fr-204



MAT 8701

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

87-Fr-204



87-Fr-204

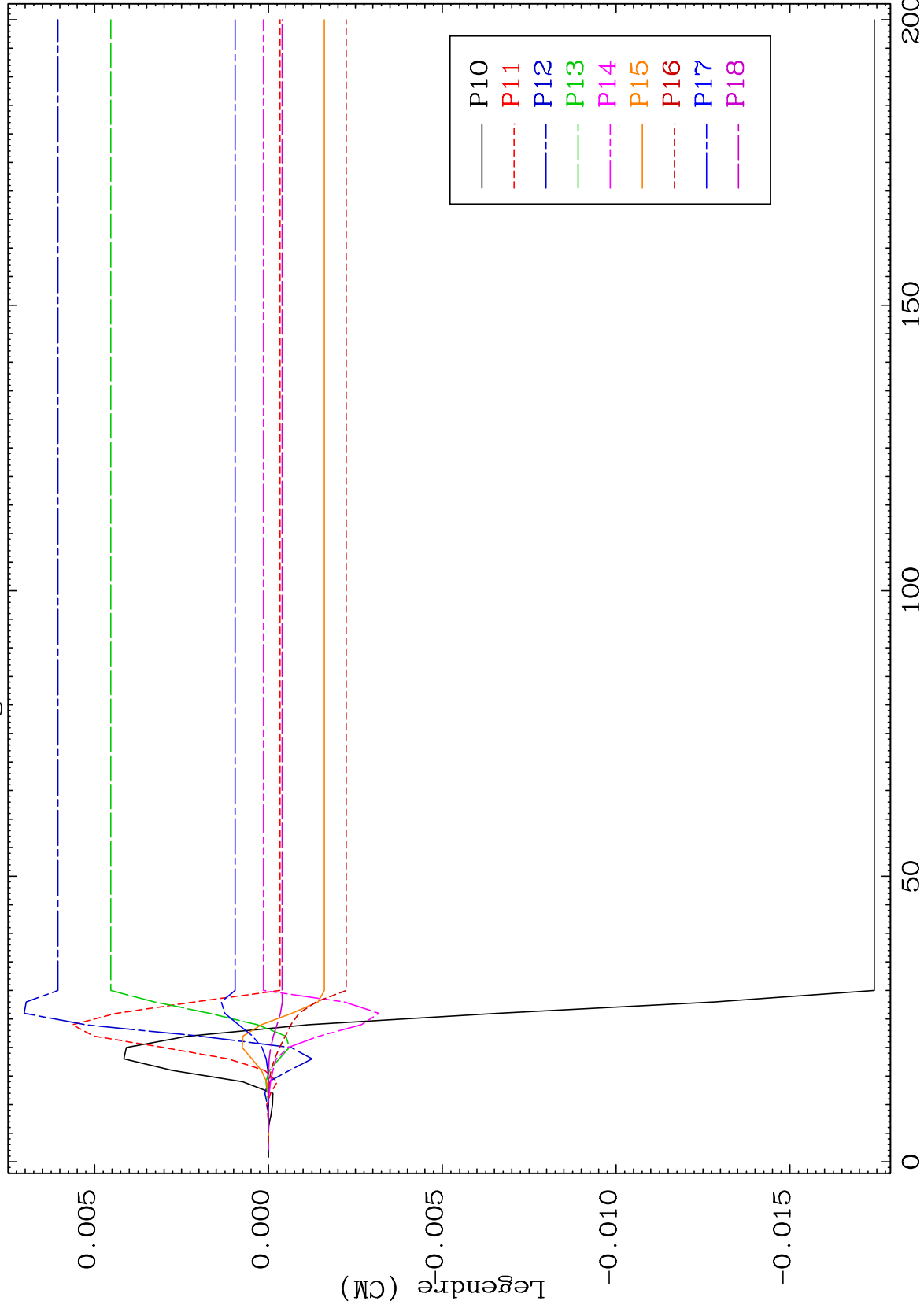
Incident Energy (MeV)

45

MAT 8701

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

87-Fr-204



46

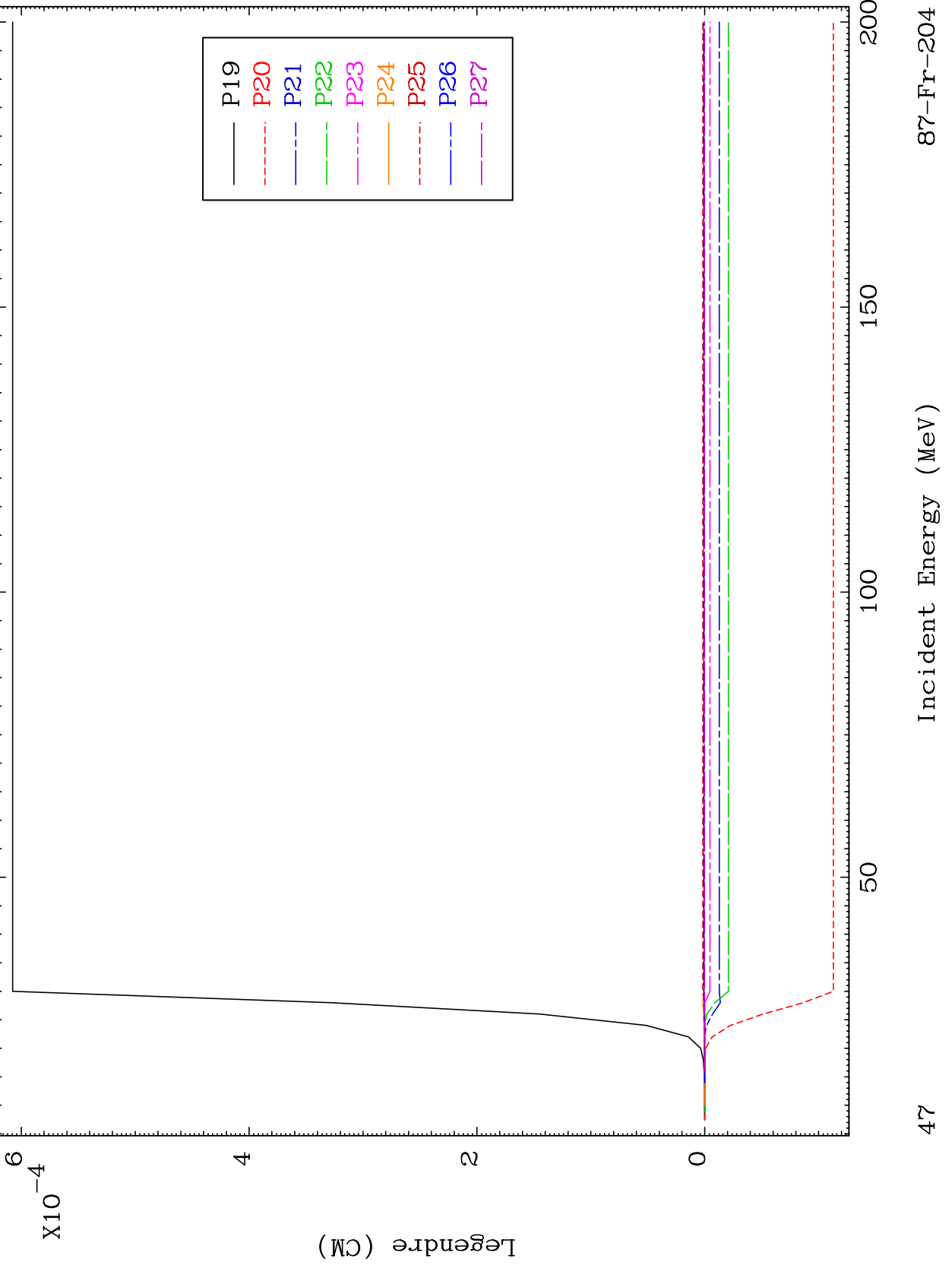
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

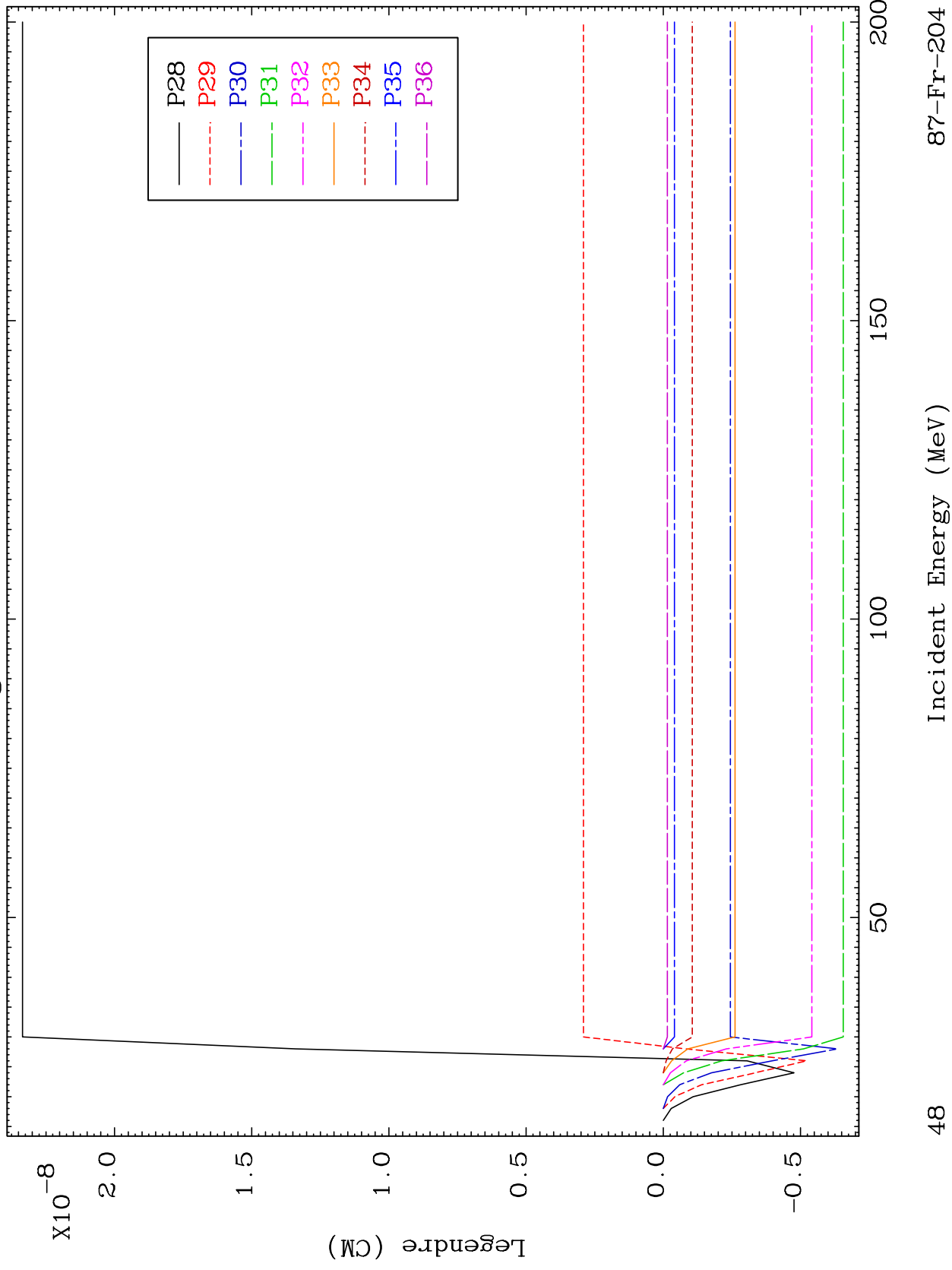
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MAT 8701

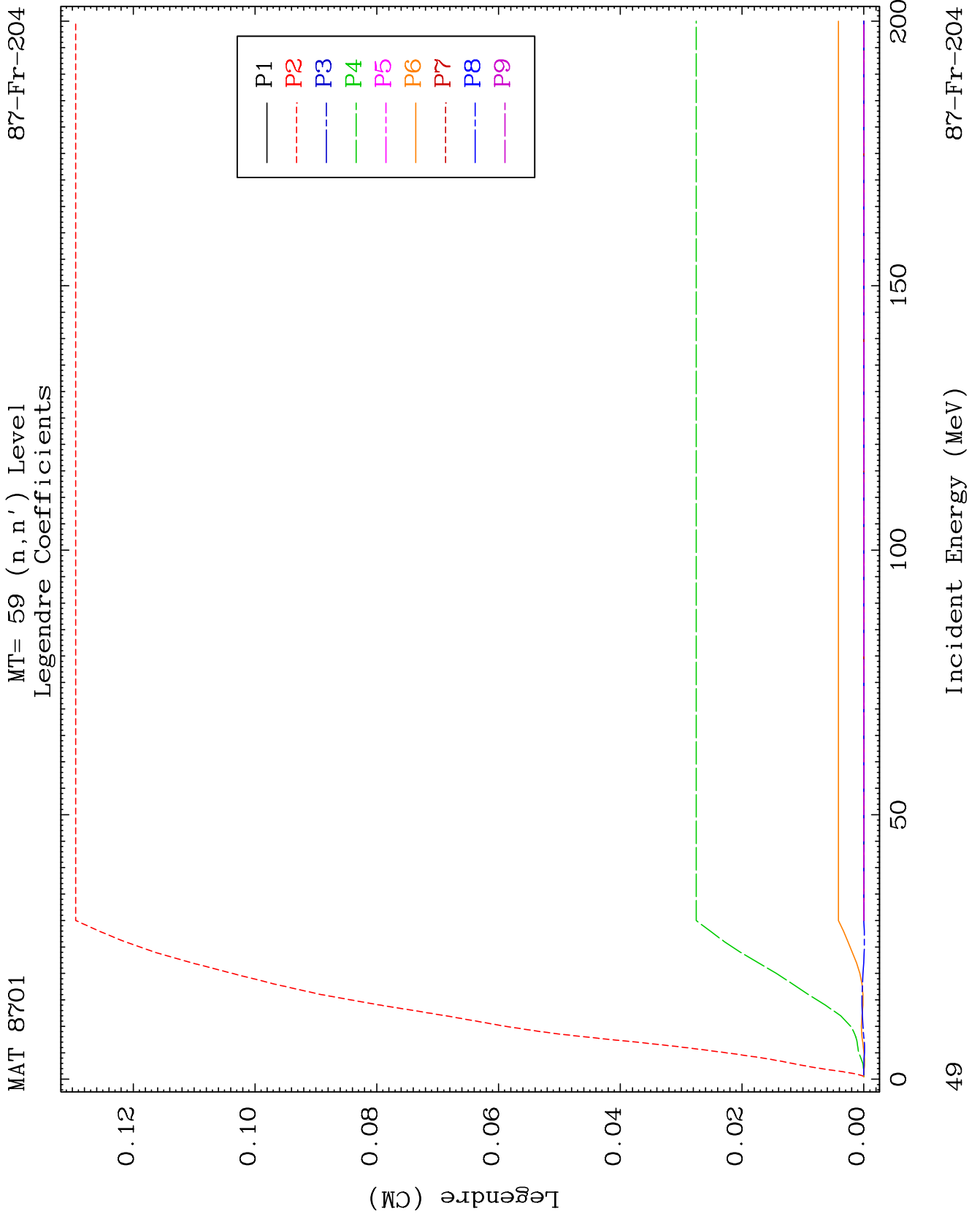
MT= 58 (n,n') Level
Legendre Coefficients

87-Fr-204



48

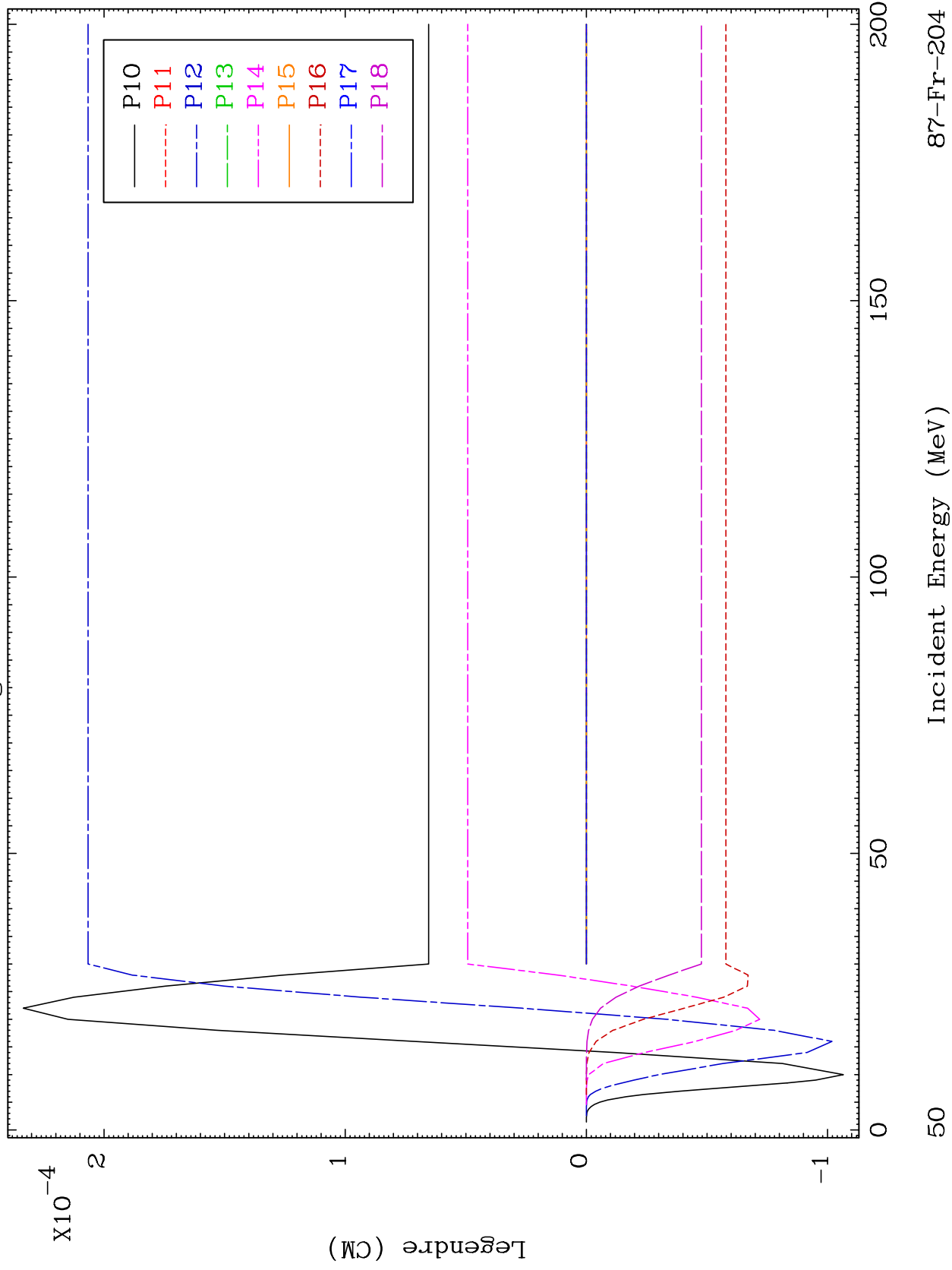
87-Fr-204



MAT 8701

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

87-Fr-204



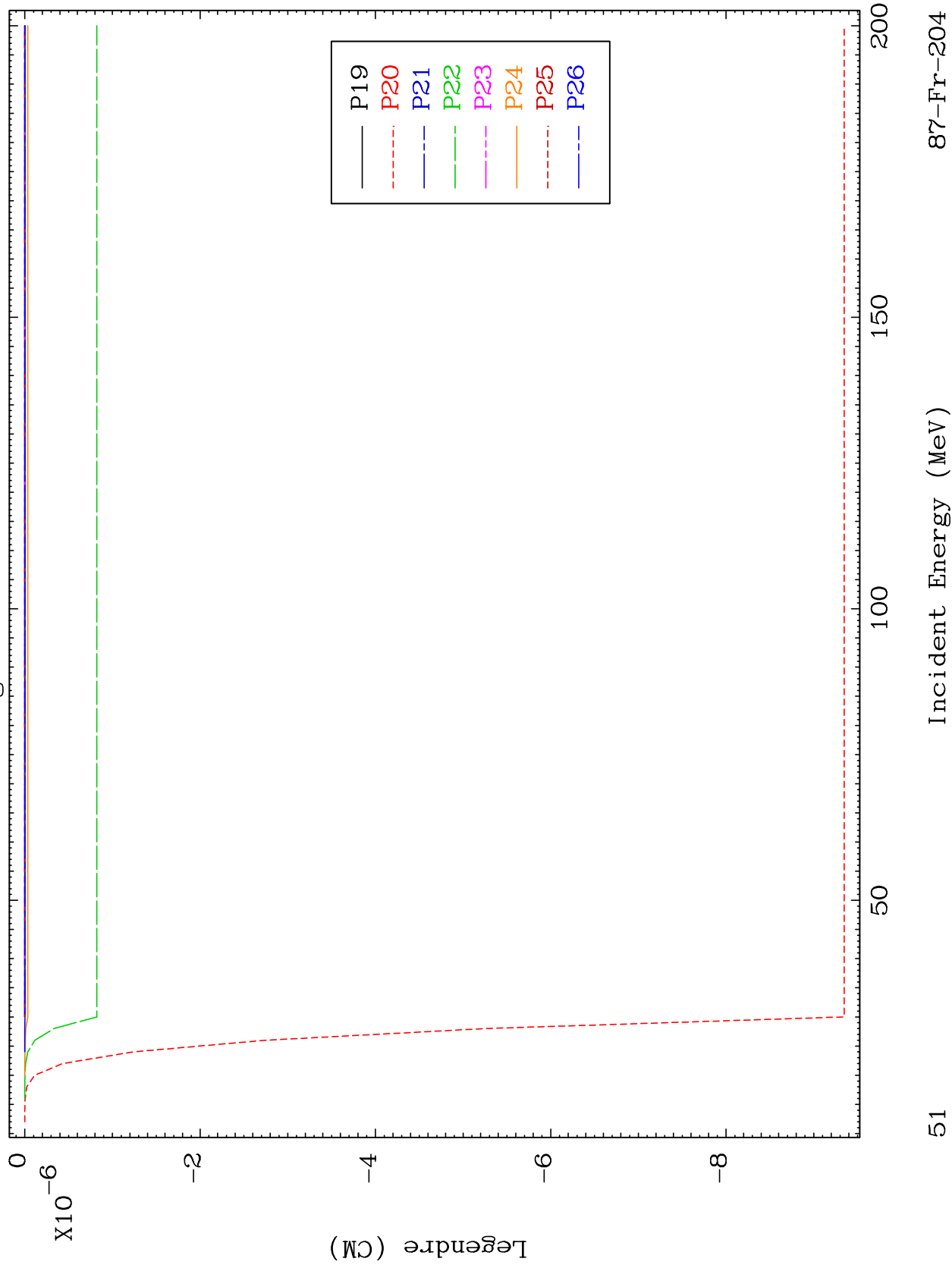
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Incident Energy (MeV)

MAT 8701

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

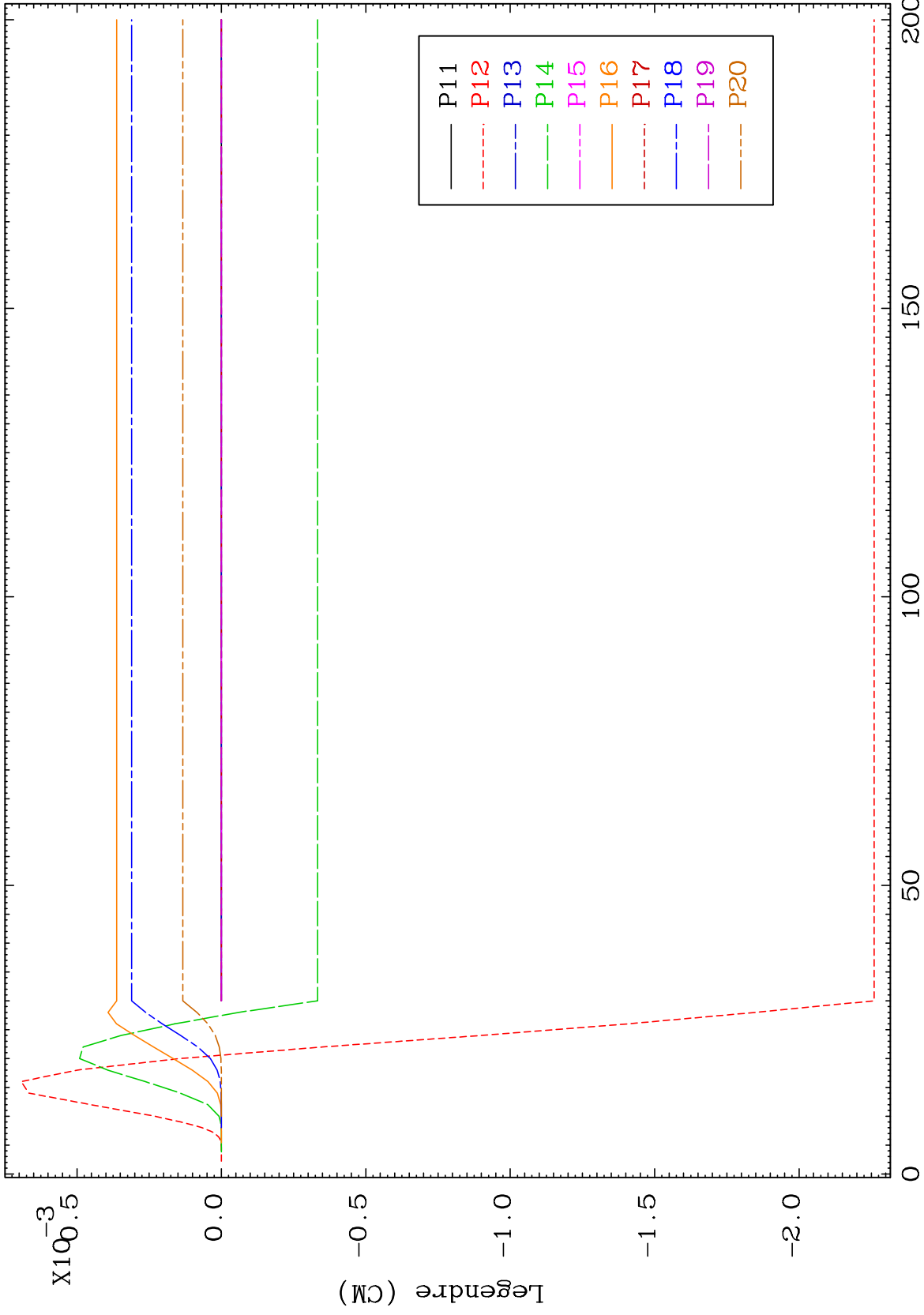
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MAT 8701

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

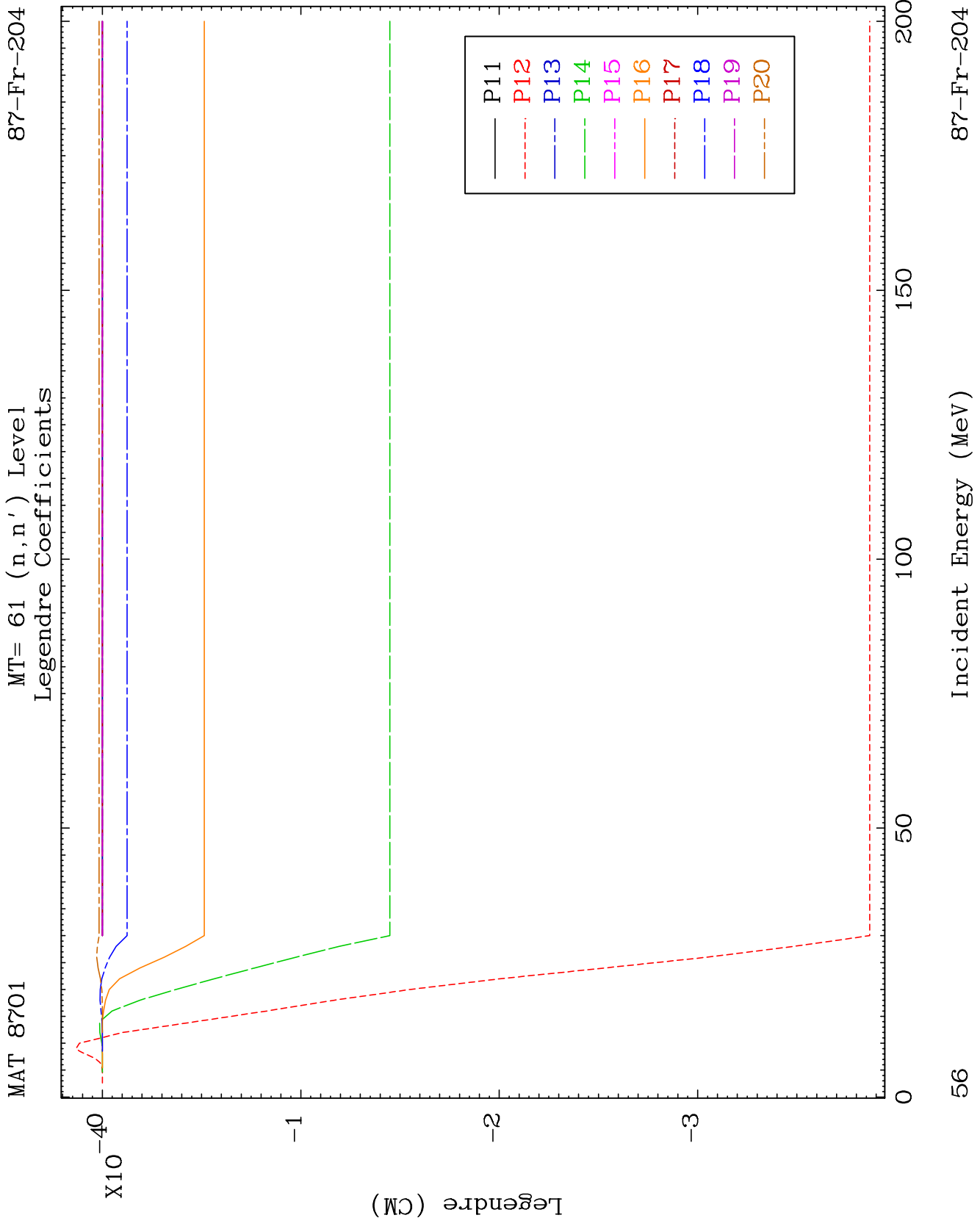
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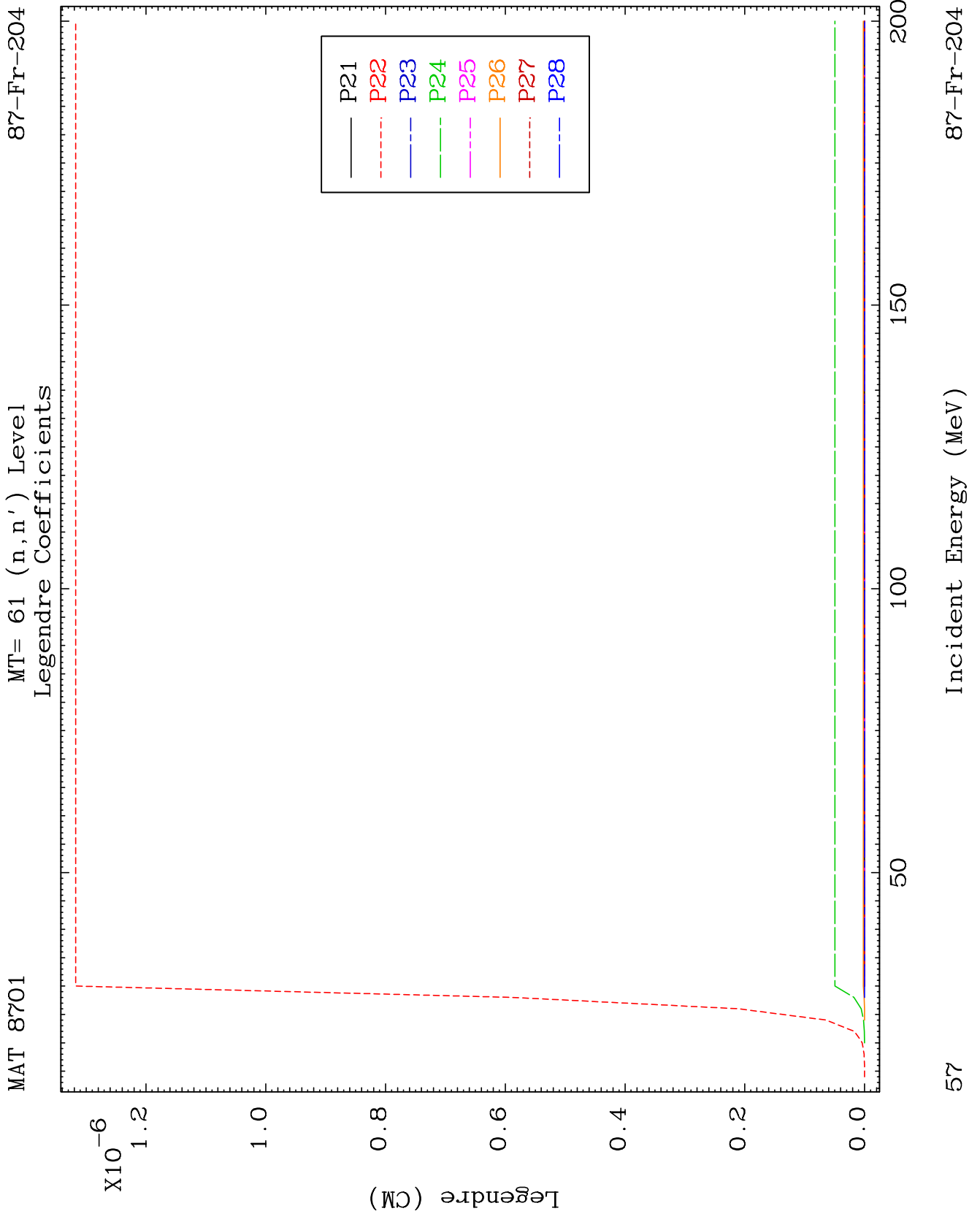


53

Incident Energy (MeV)

87-Fr-204

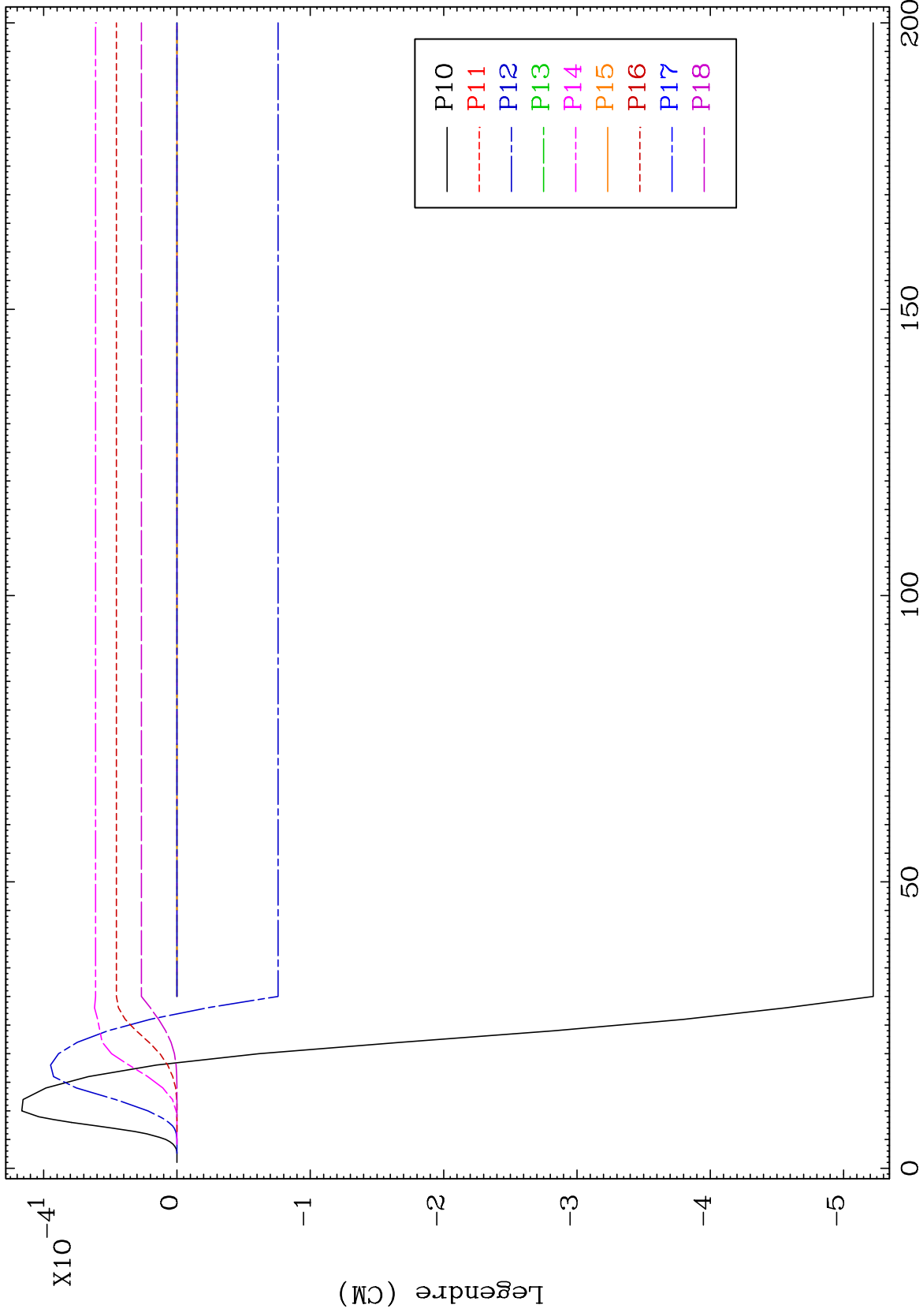




MAT 8701

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

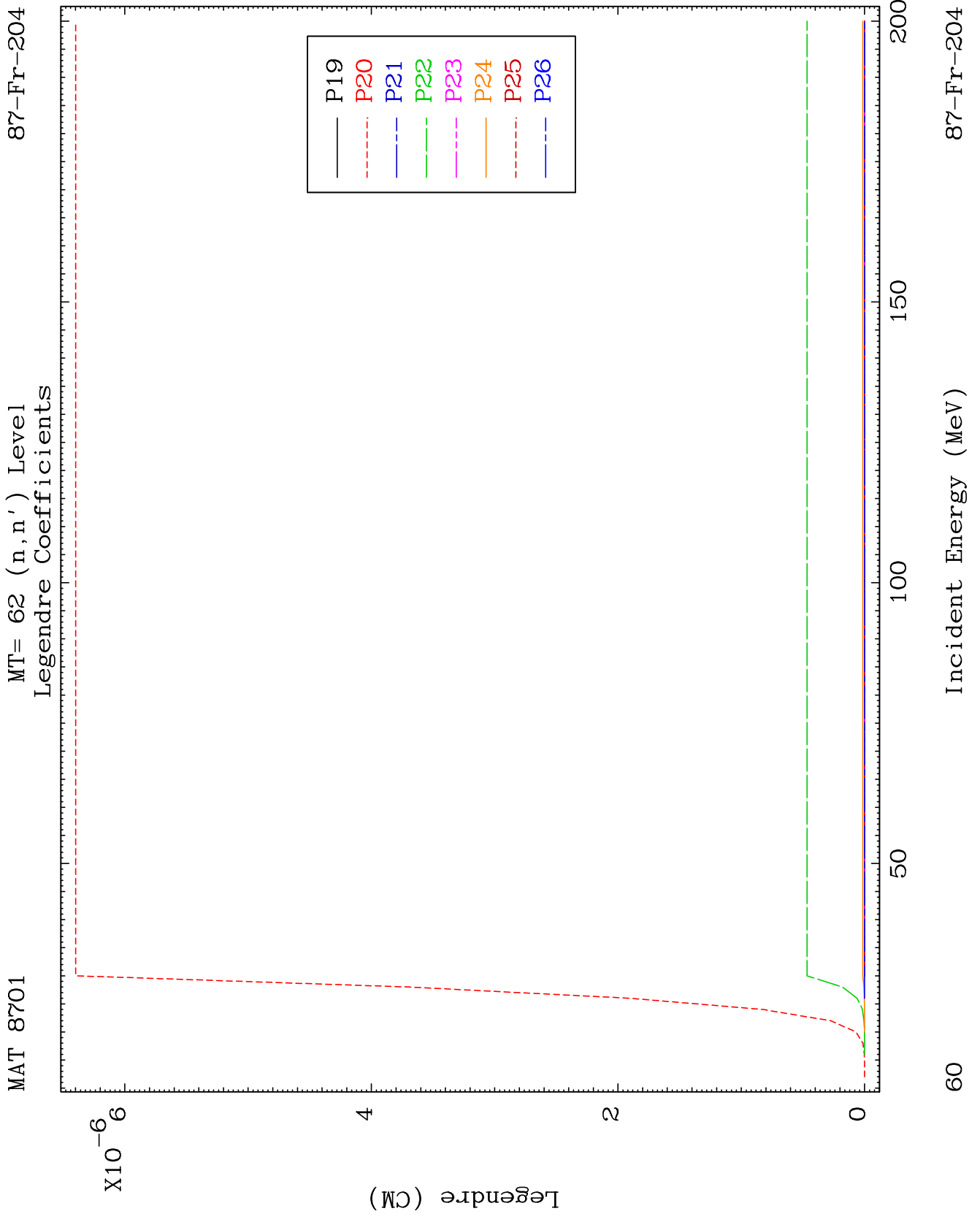
87-Fr-204



59

Incident Energy (MeV)

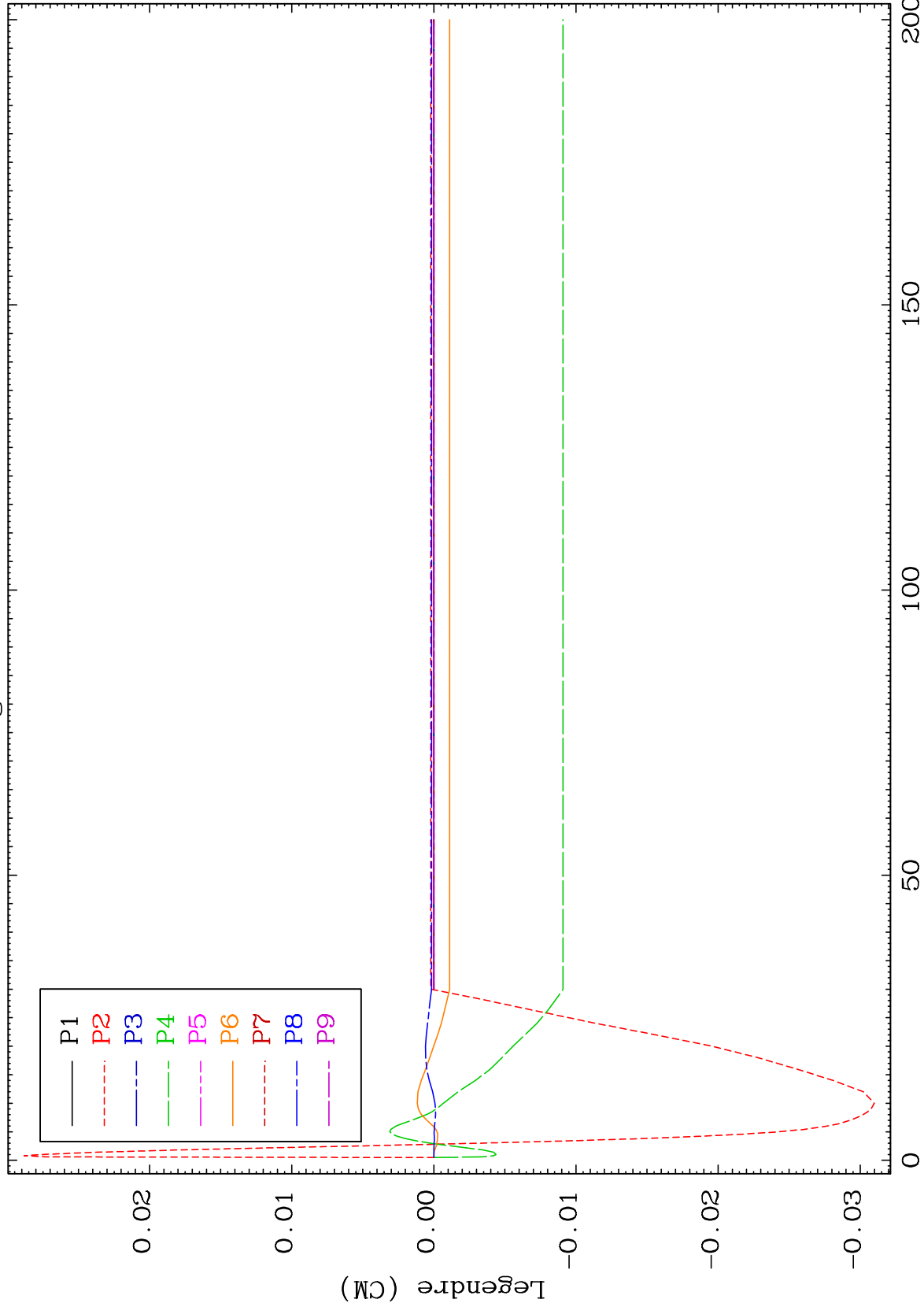
87-Fr-204



MAT 8701

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

87-Fr-204



61

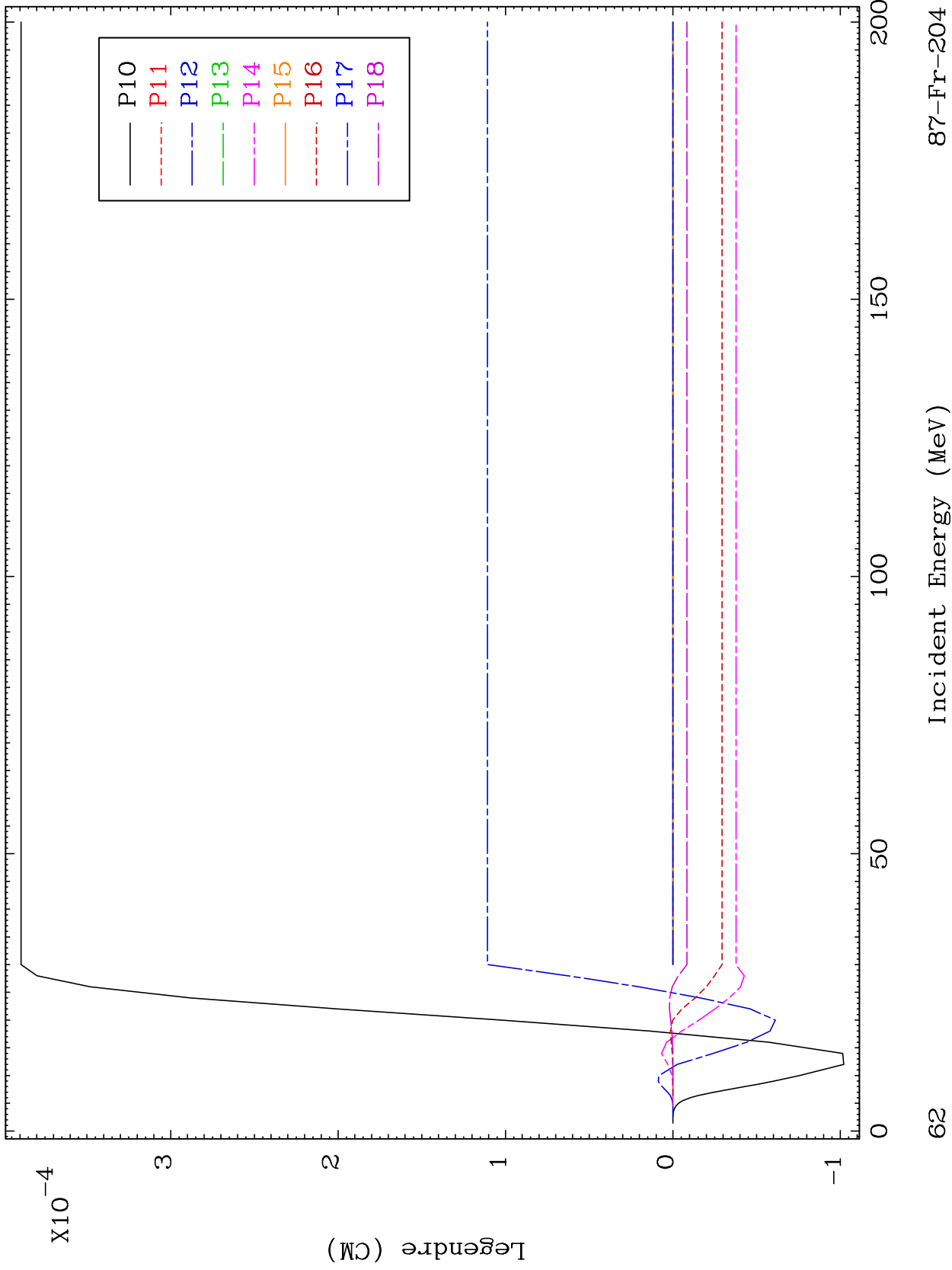
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



62

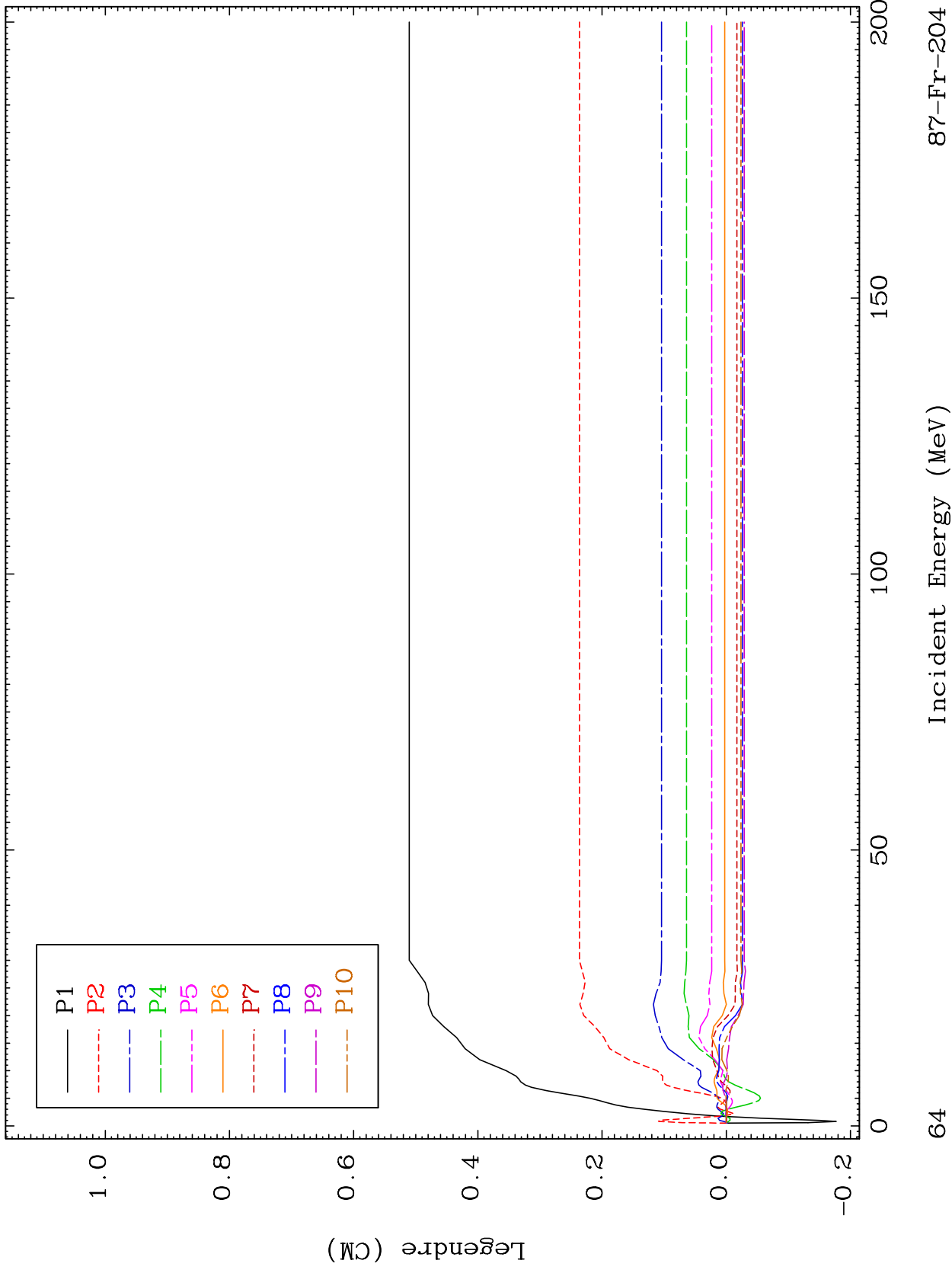
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

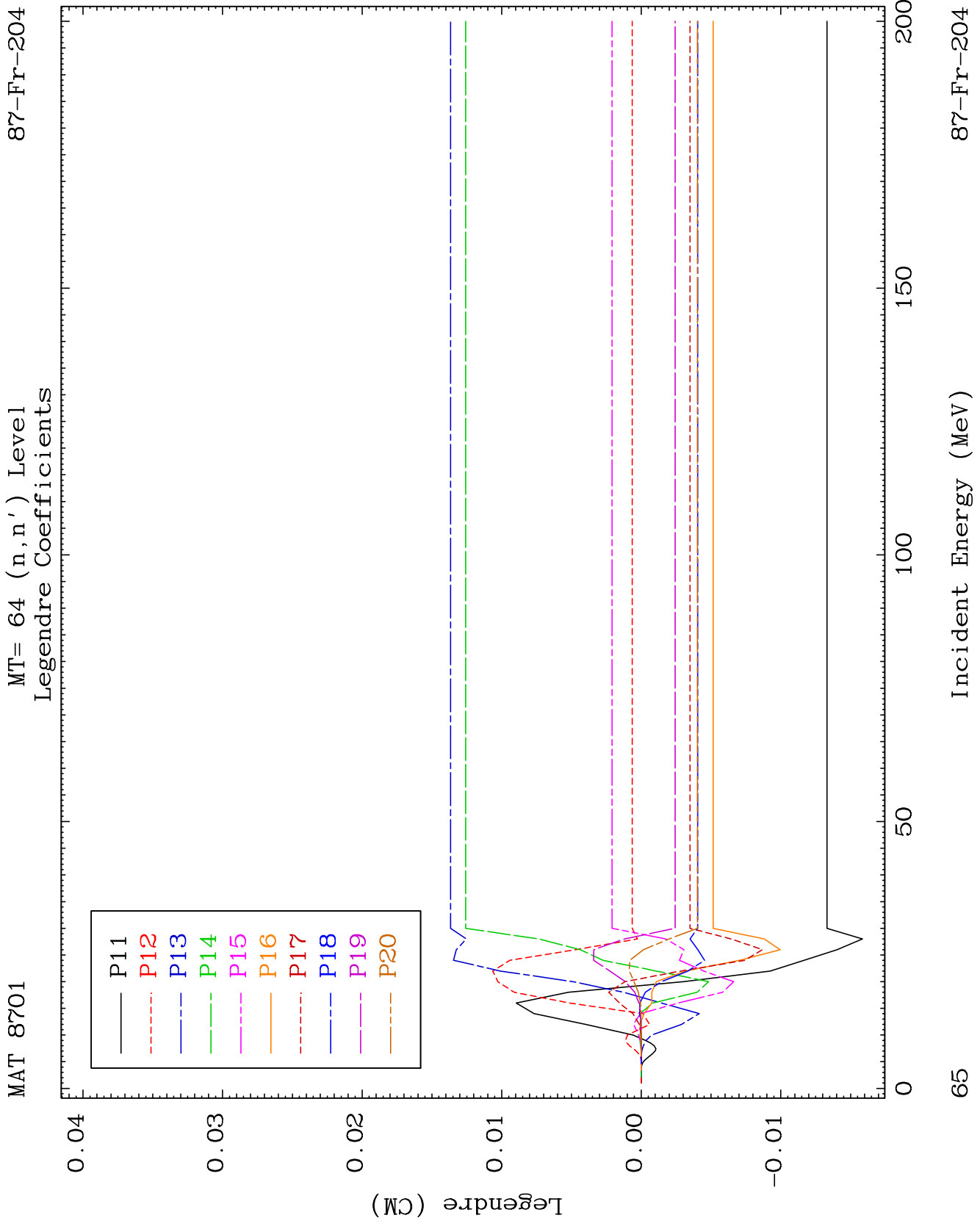
87-Fr-204



87-Fr-204

Incident Energy (MeV)

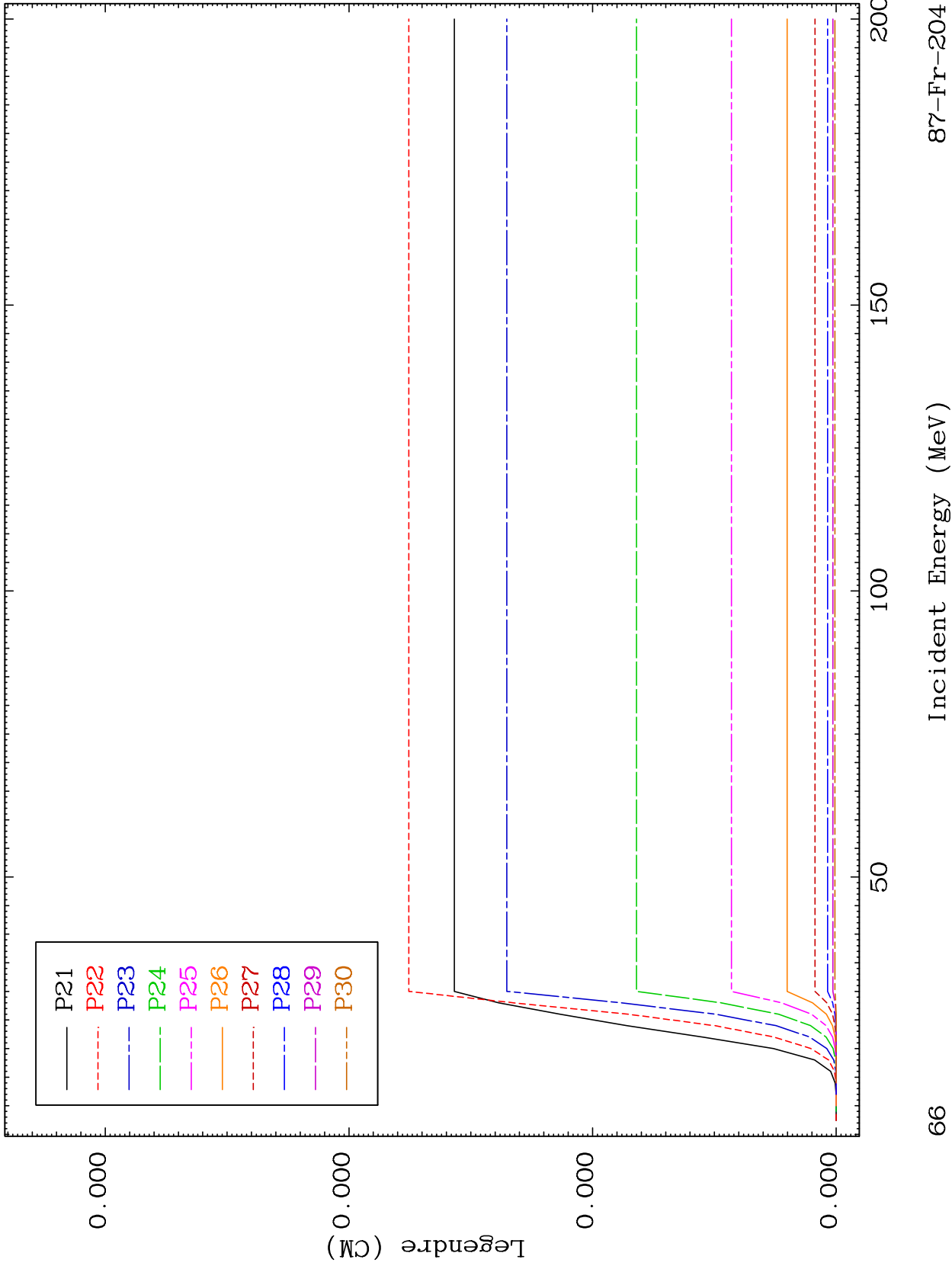
64



MAT 8701

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

87-Fr-204

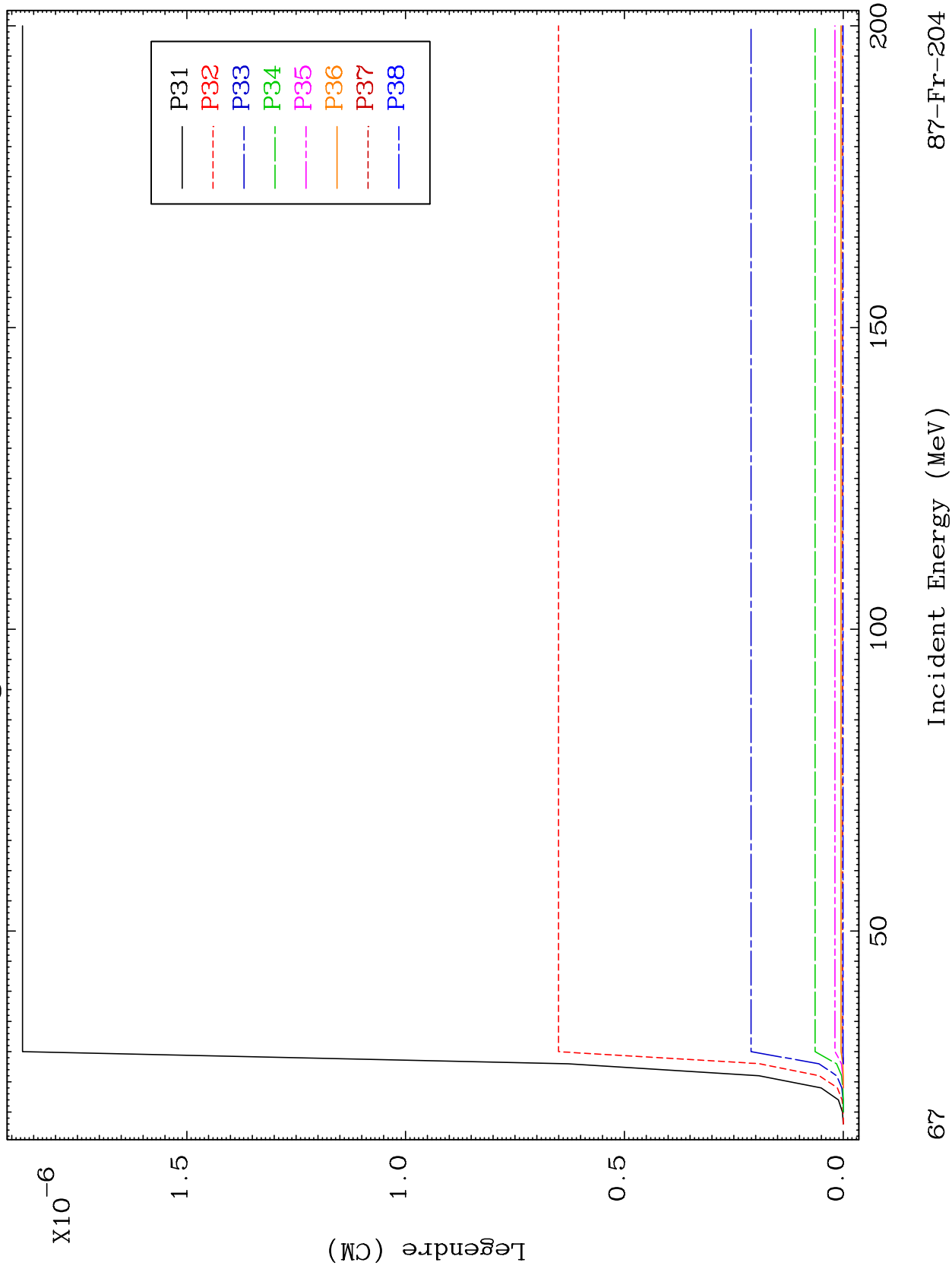


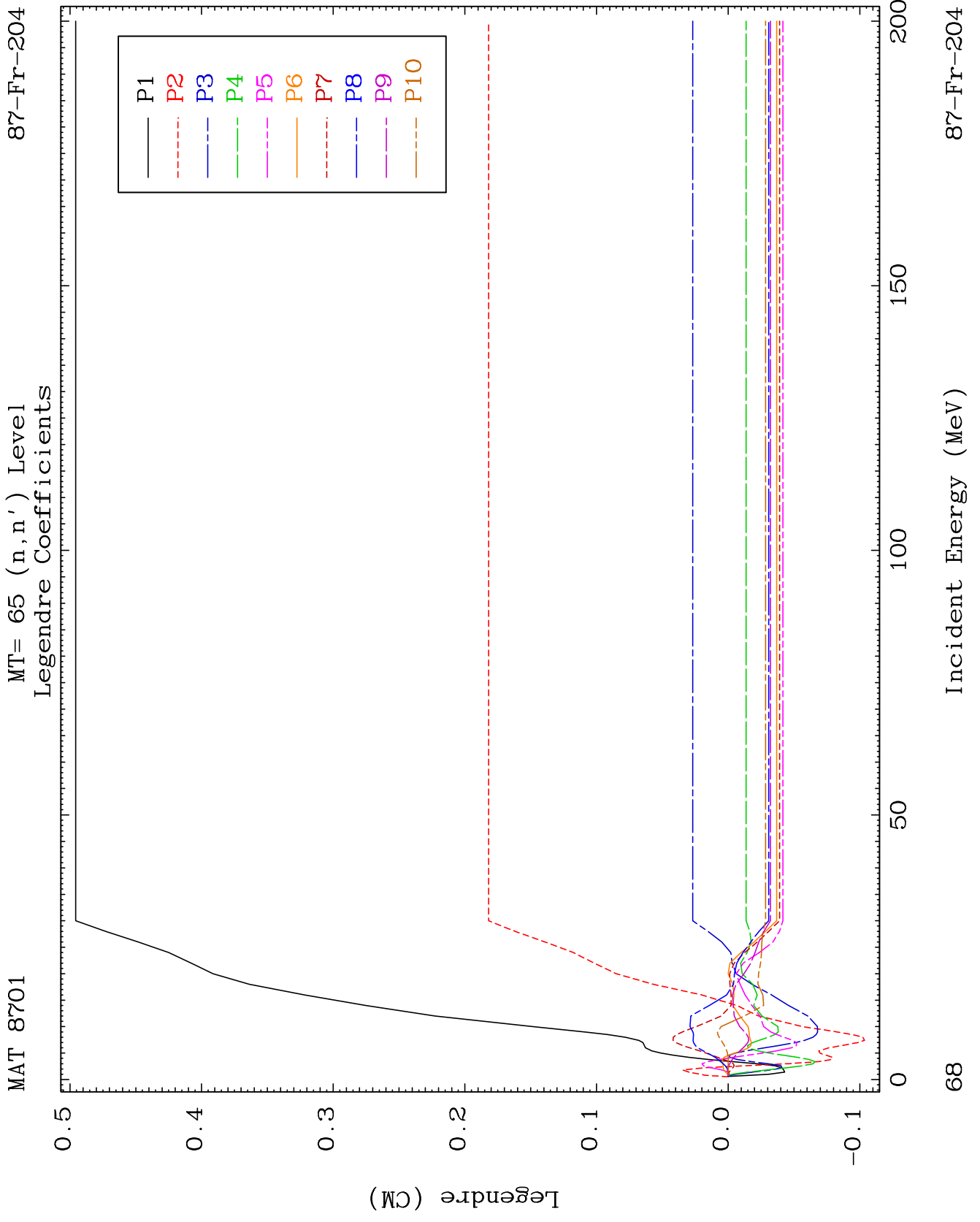
66

MAT 8701

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

87-Fr-204

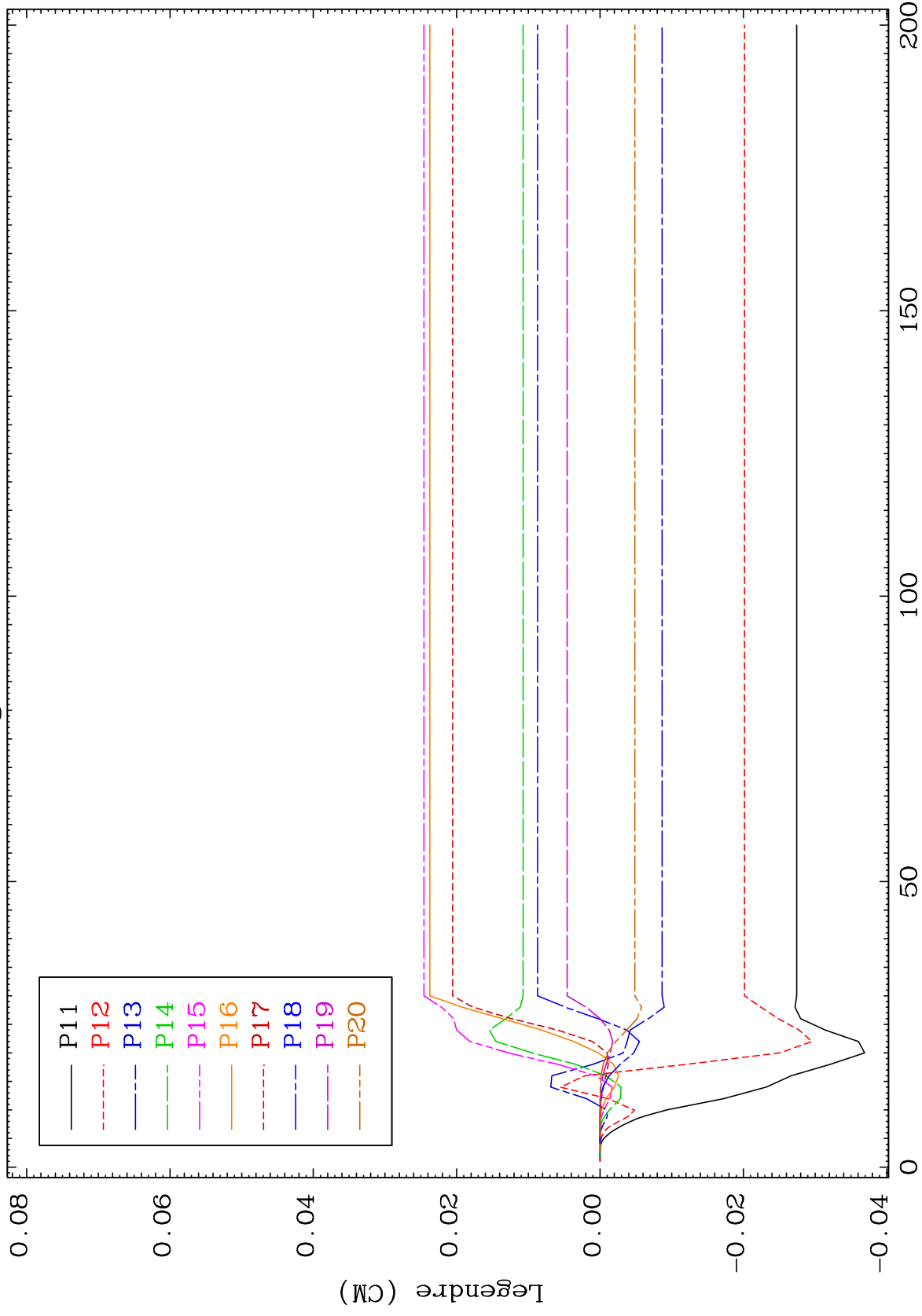




MAT 8701

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

87-Fr-204



69

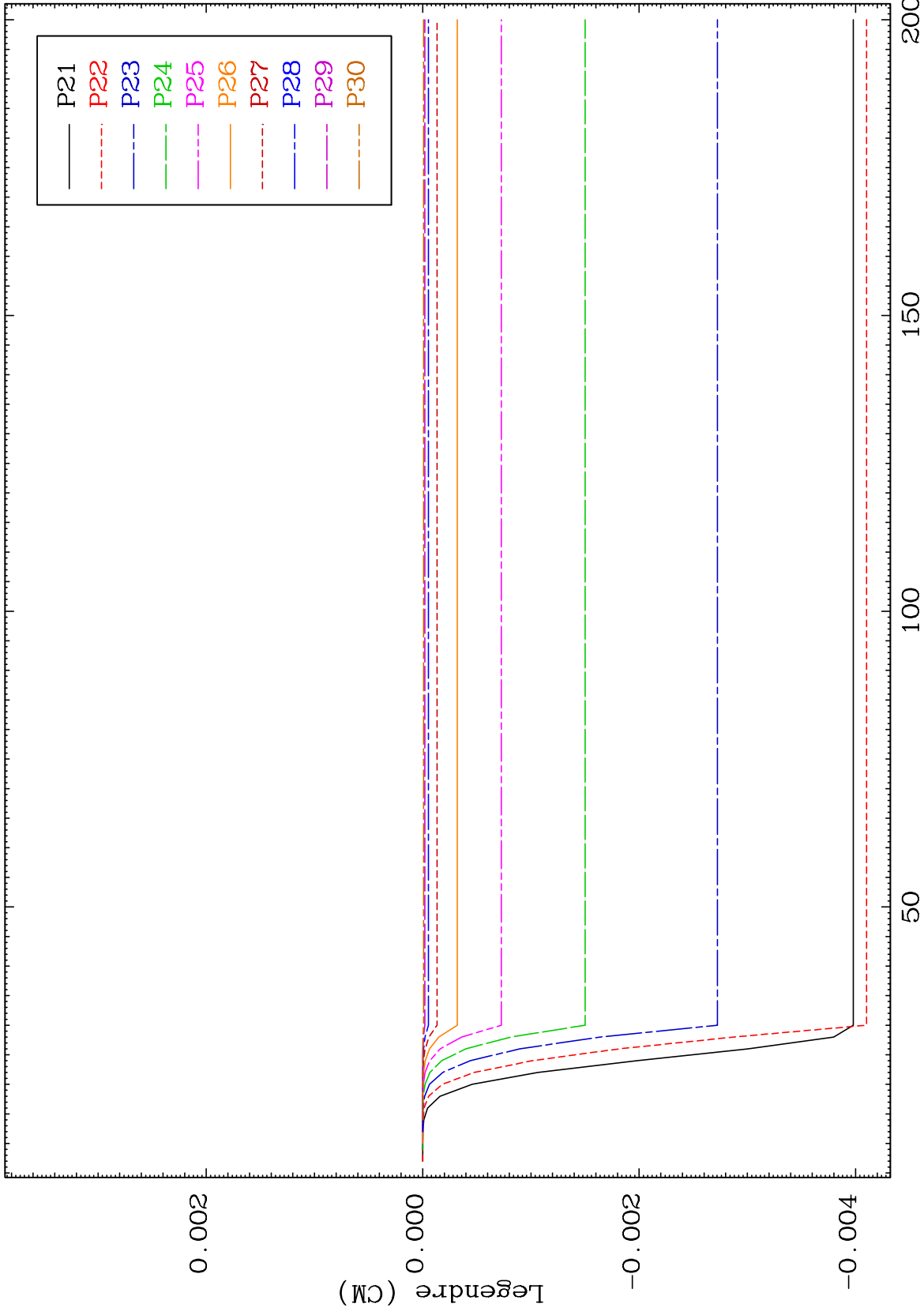
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



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Incident Energy (MeV)

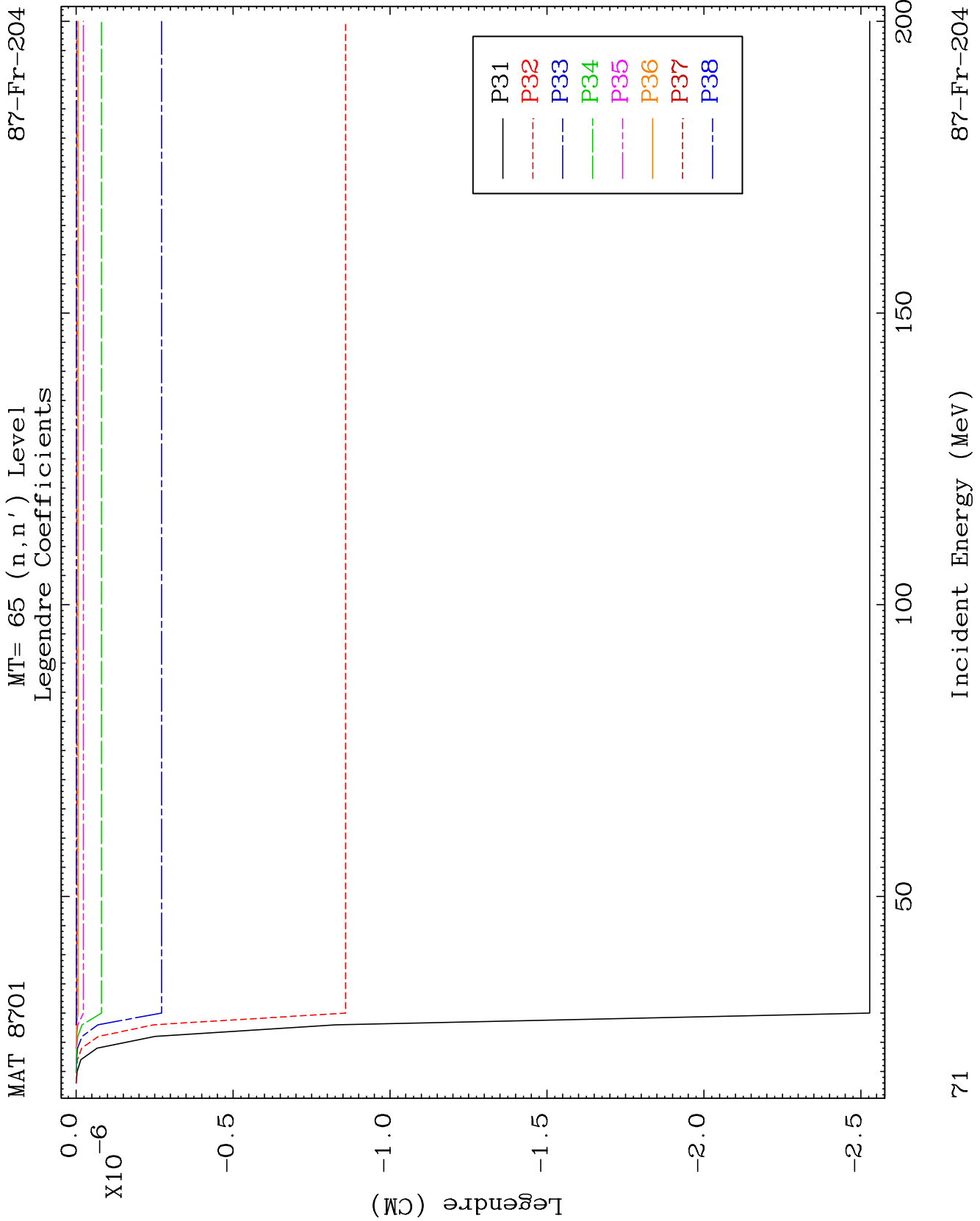
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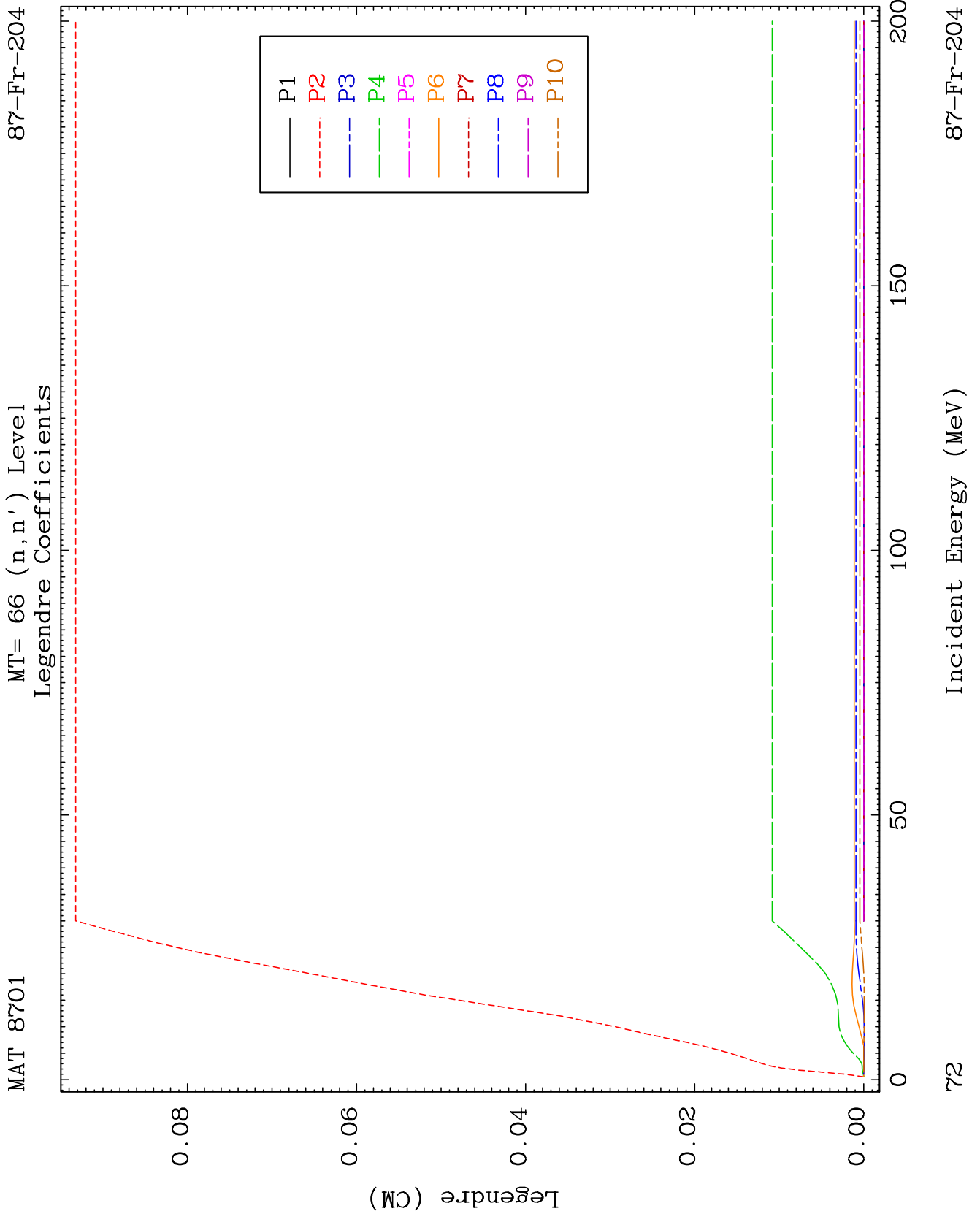
100

150

200

87-Fr-204

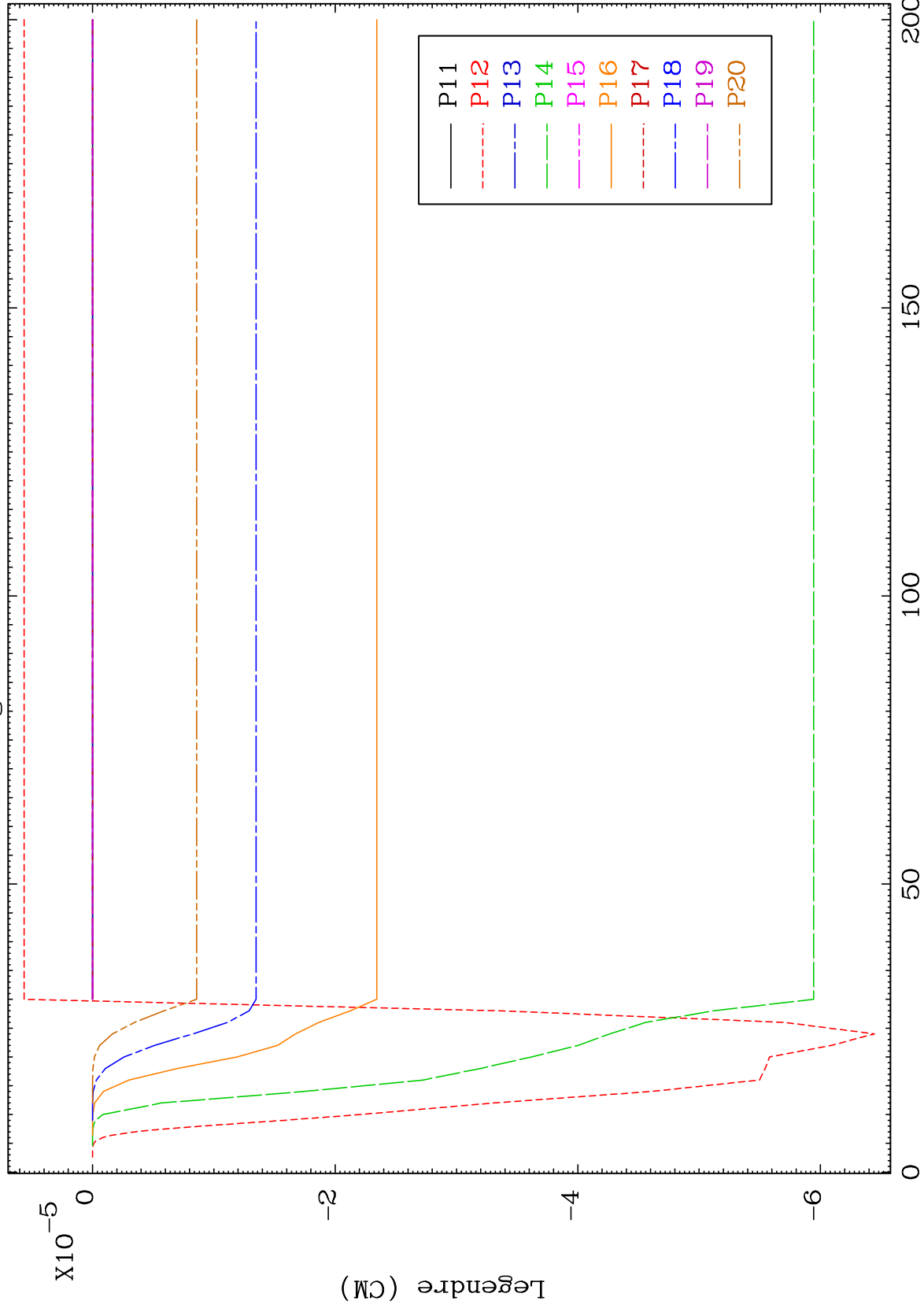




MAT 8701

87-Fr-204

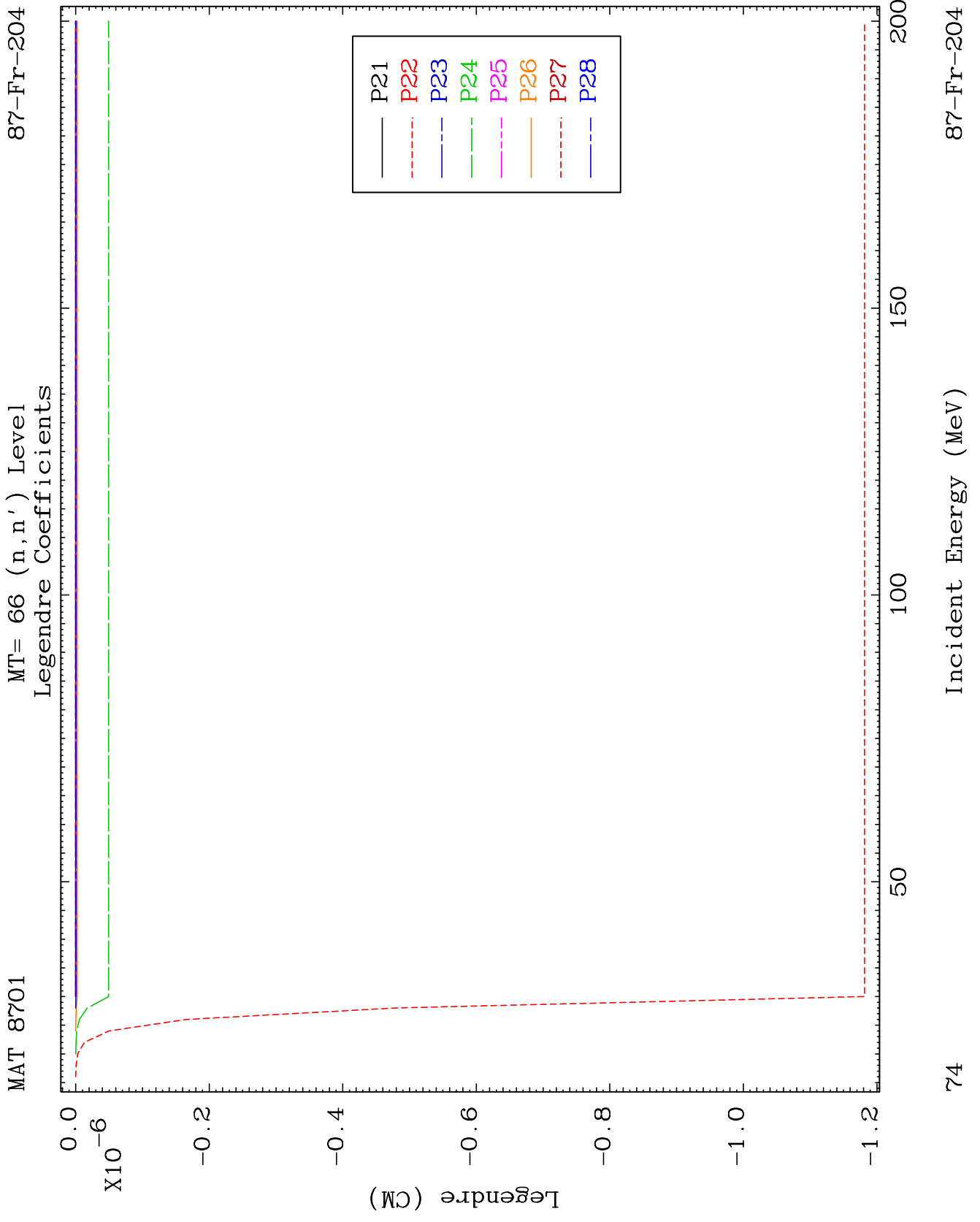
MT= 66 (n,n') Level
Legendre Coefficients



73

Incident Energy (MeV)

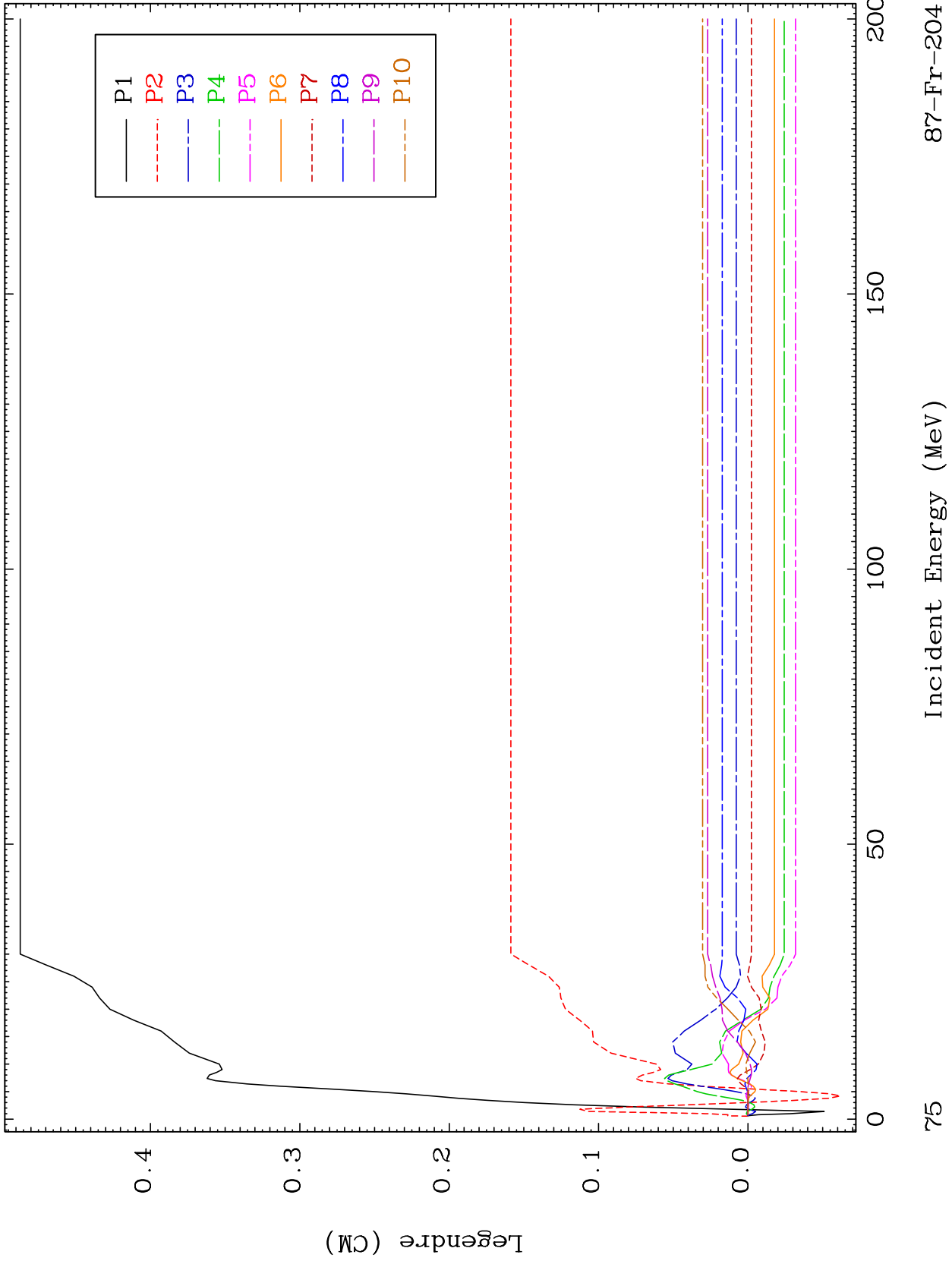
87-Fr-204



MAT 8701

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

87-Fr-204



75

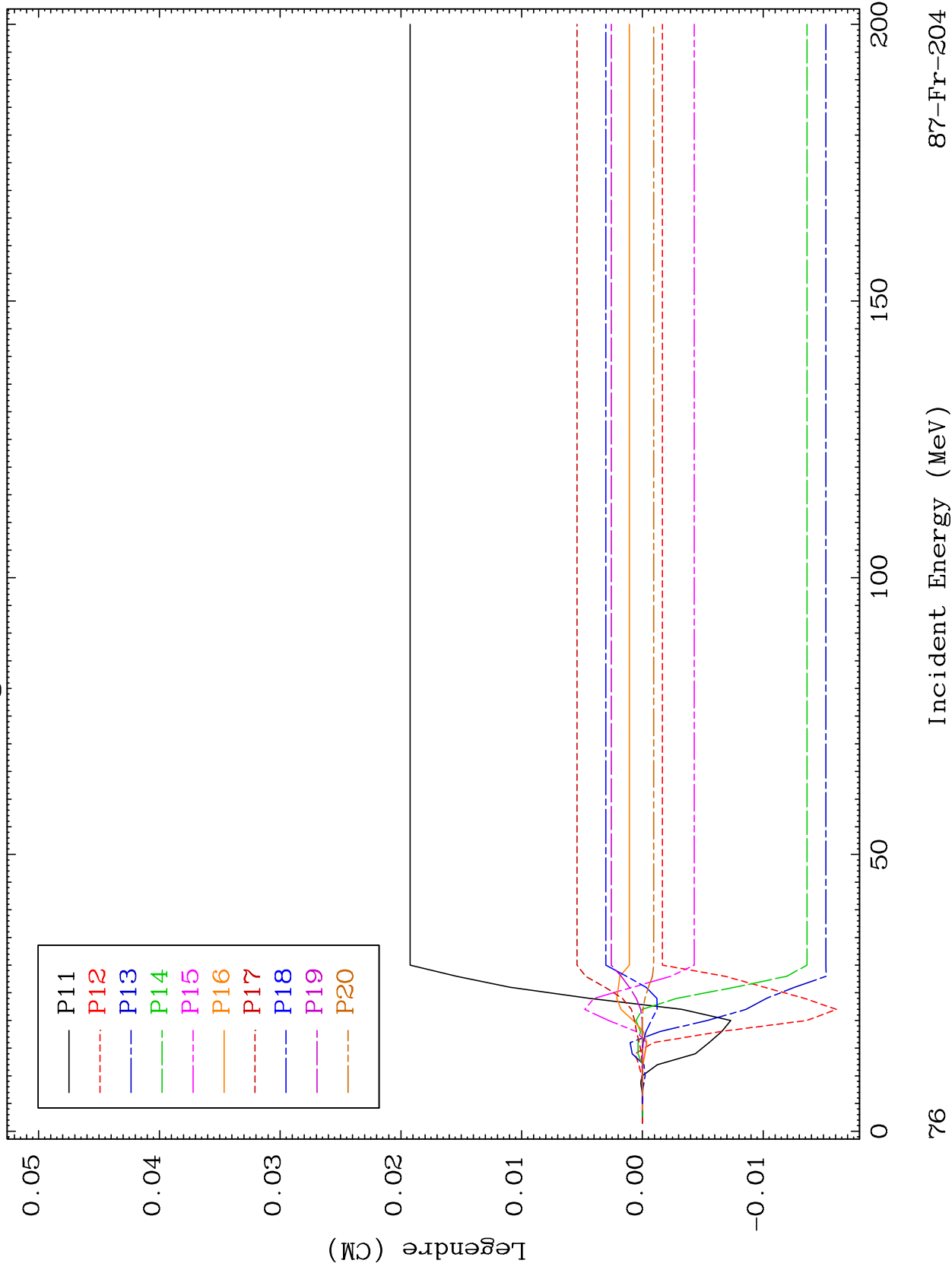
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

87-Fr-204



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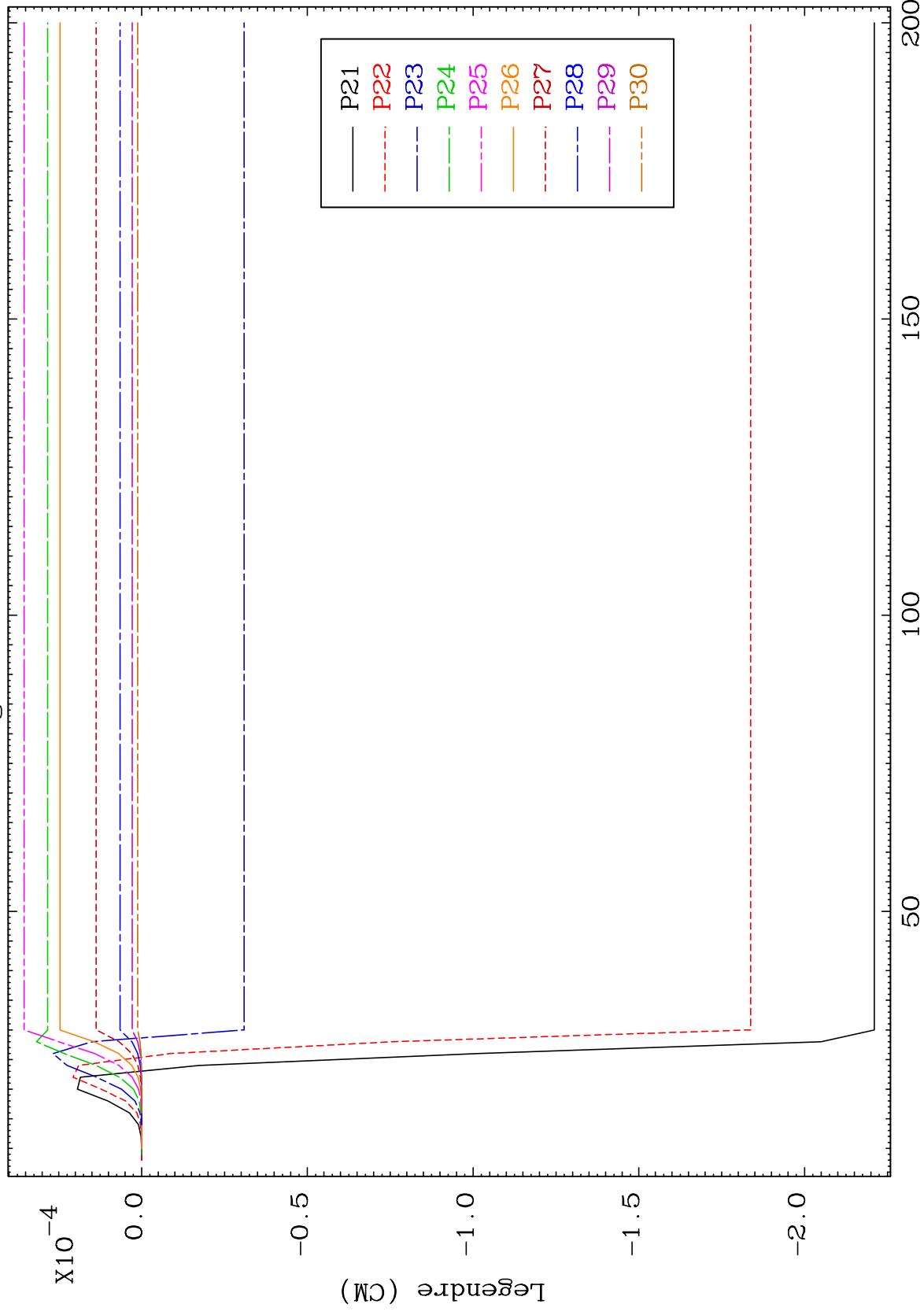
Incident Energy (MeV)

87-Fr-204

MAT 8701

87-Fr-204

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



77

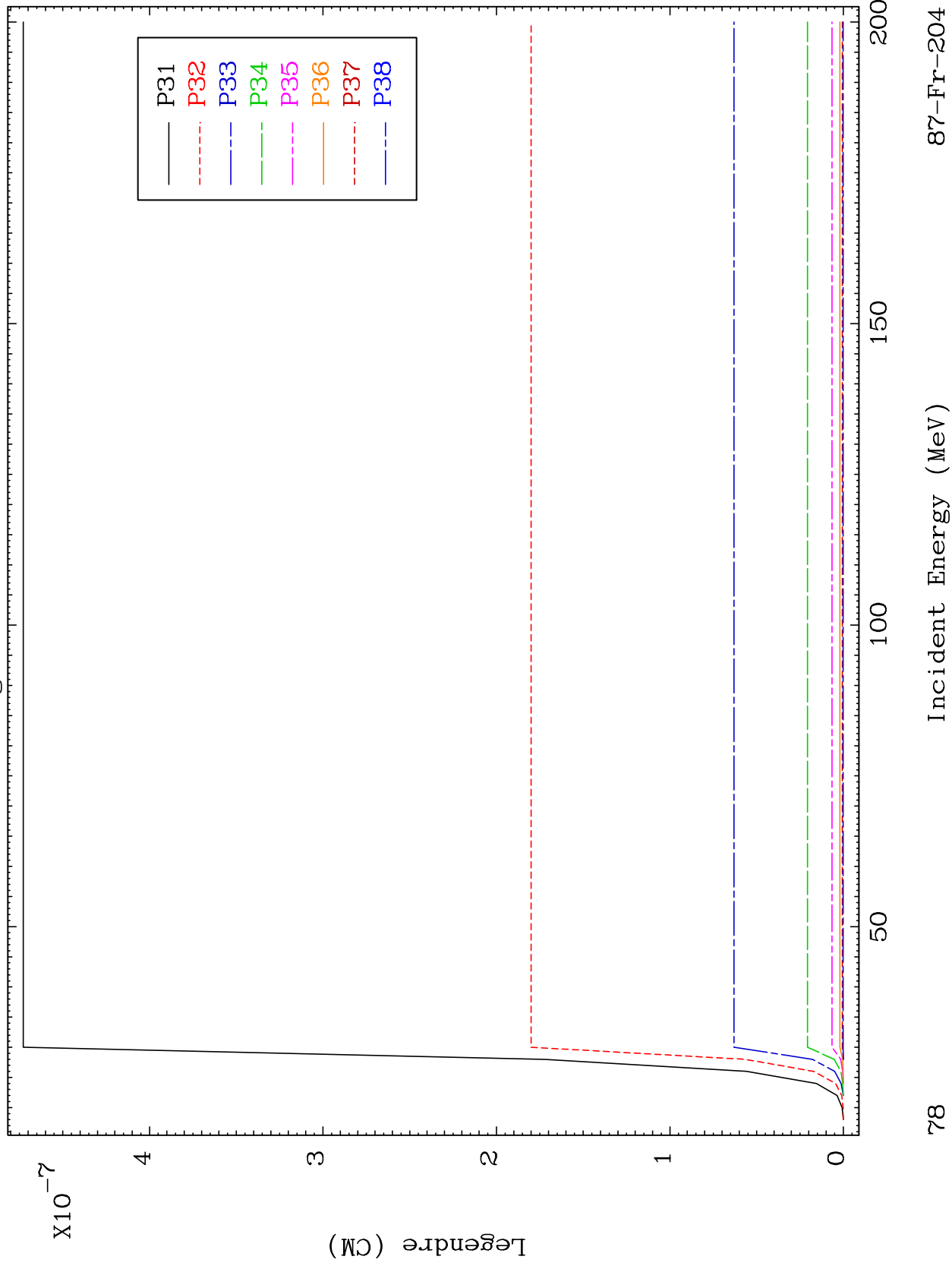
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

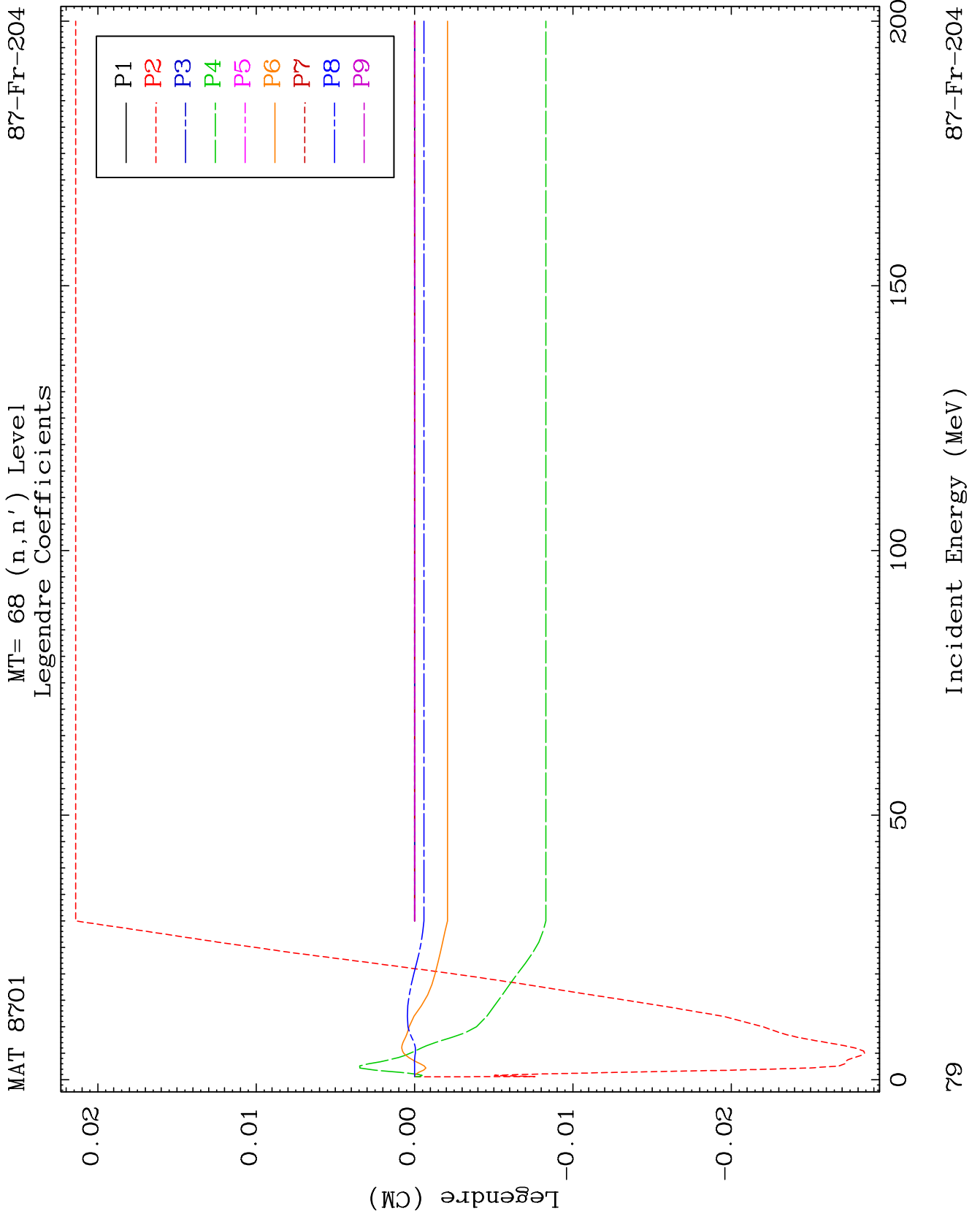
87-Fr-204



78

Incident Energy (MeV)

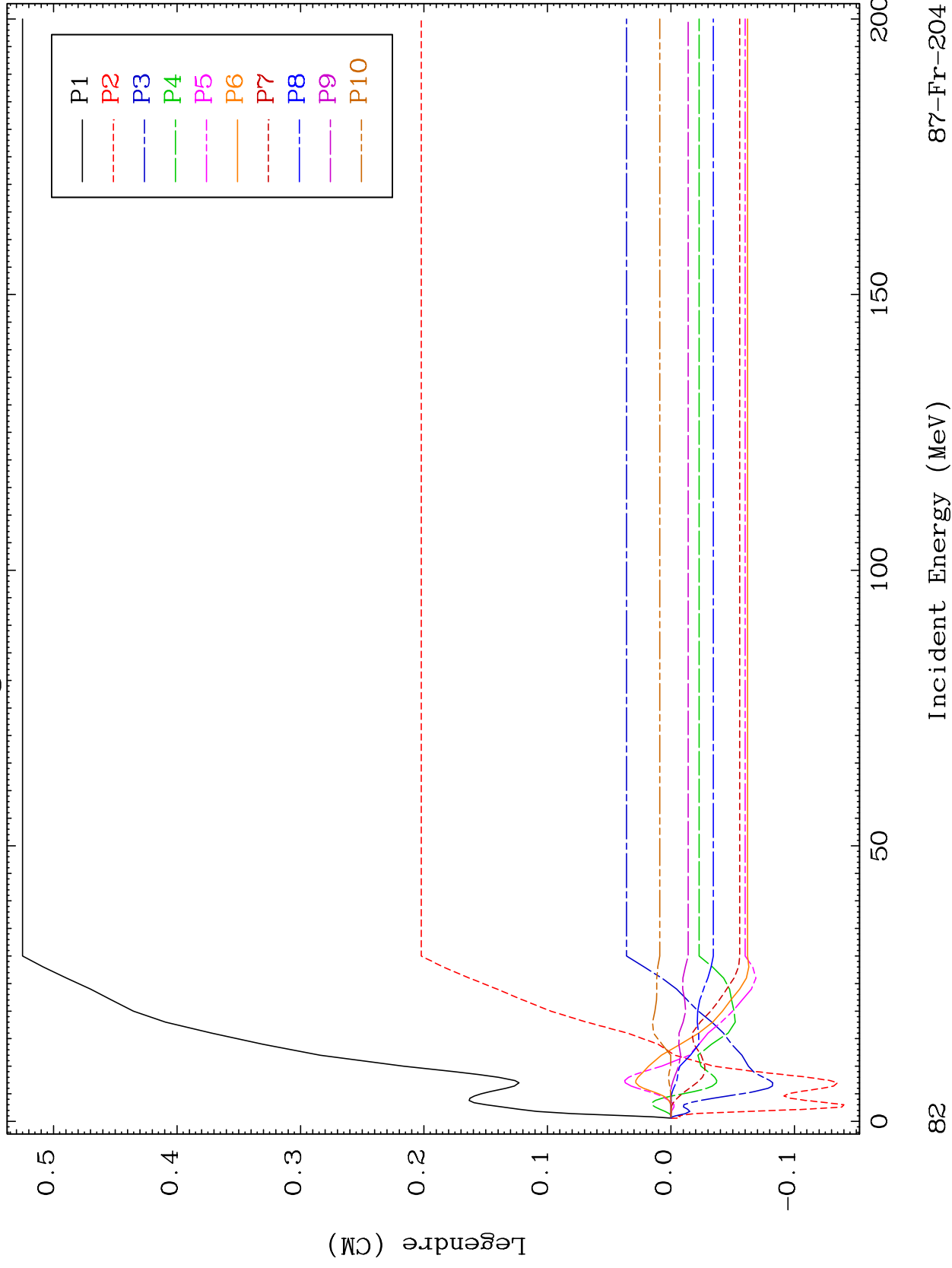
87-Fr-204



MAT 8701

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

87-Fr-204



87-Fr-204

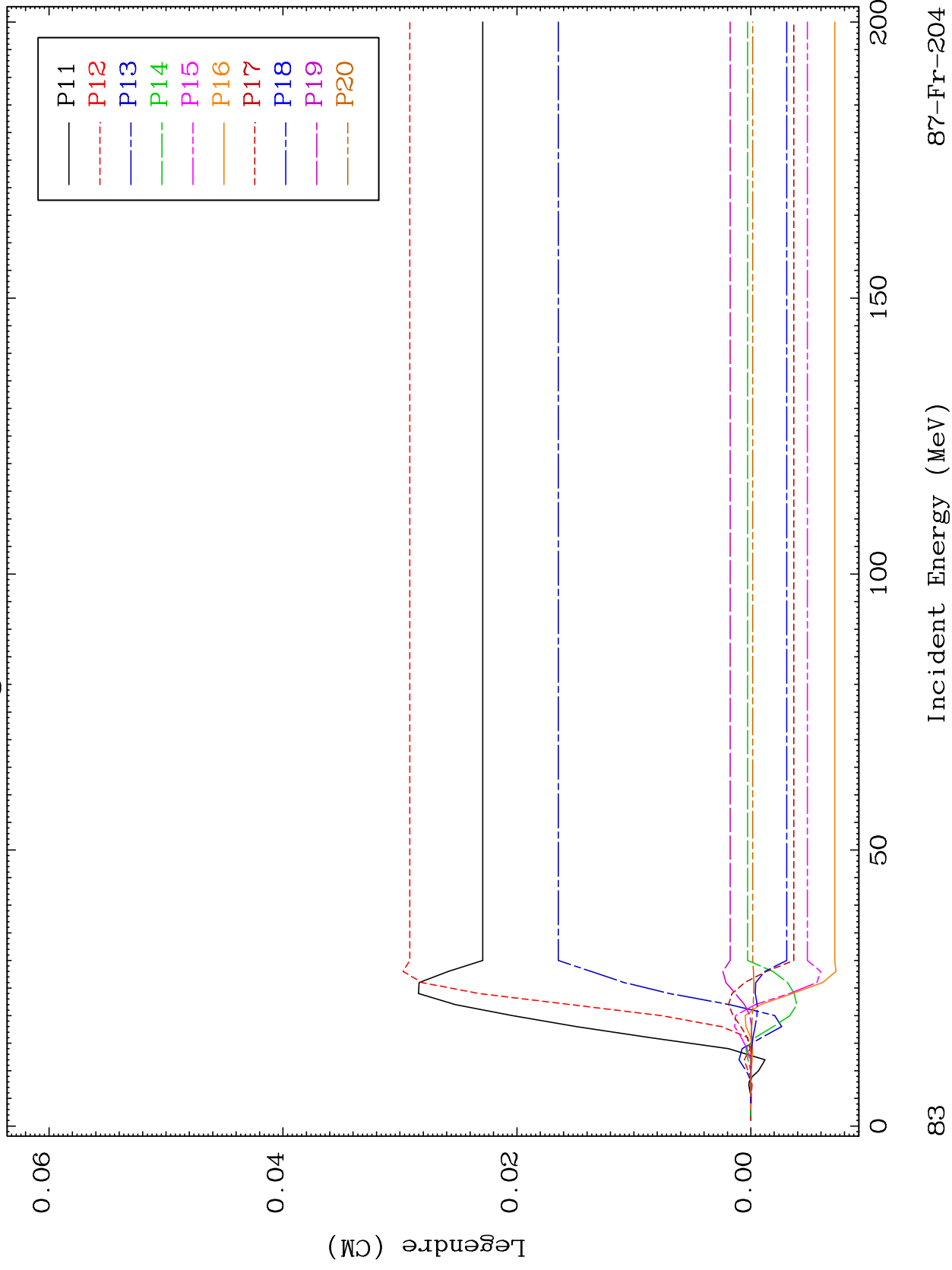
Incident Energy (MeV)

82

MAT 8701

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

87-Fr-204



87-Fr-204

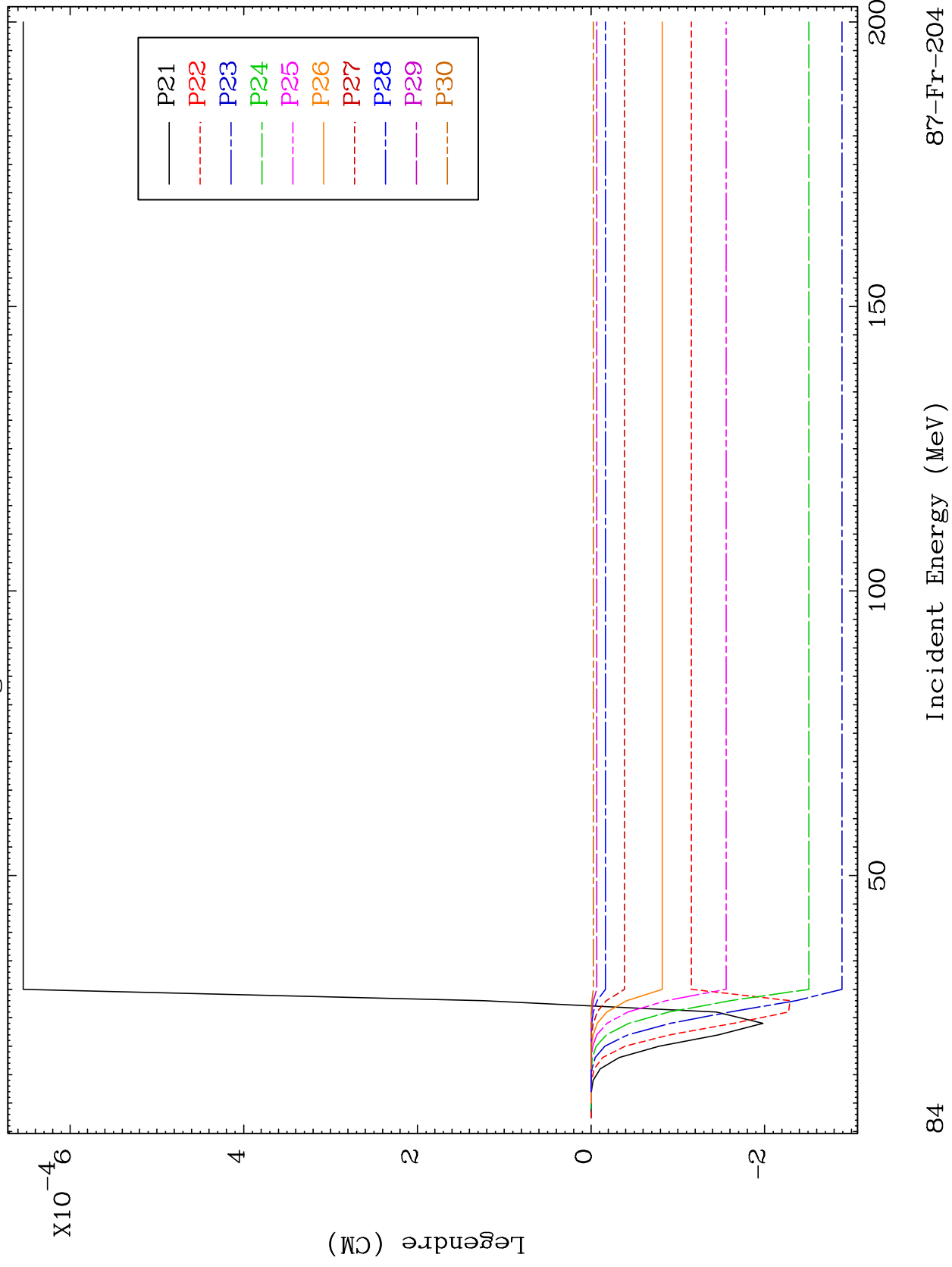
Incident Energy (MeV)

83

MAT 8701

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

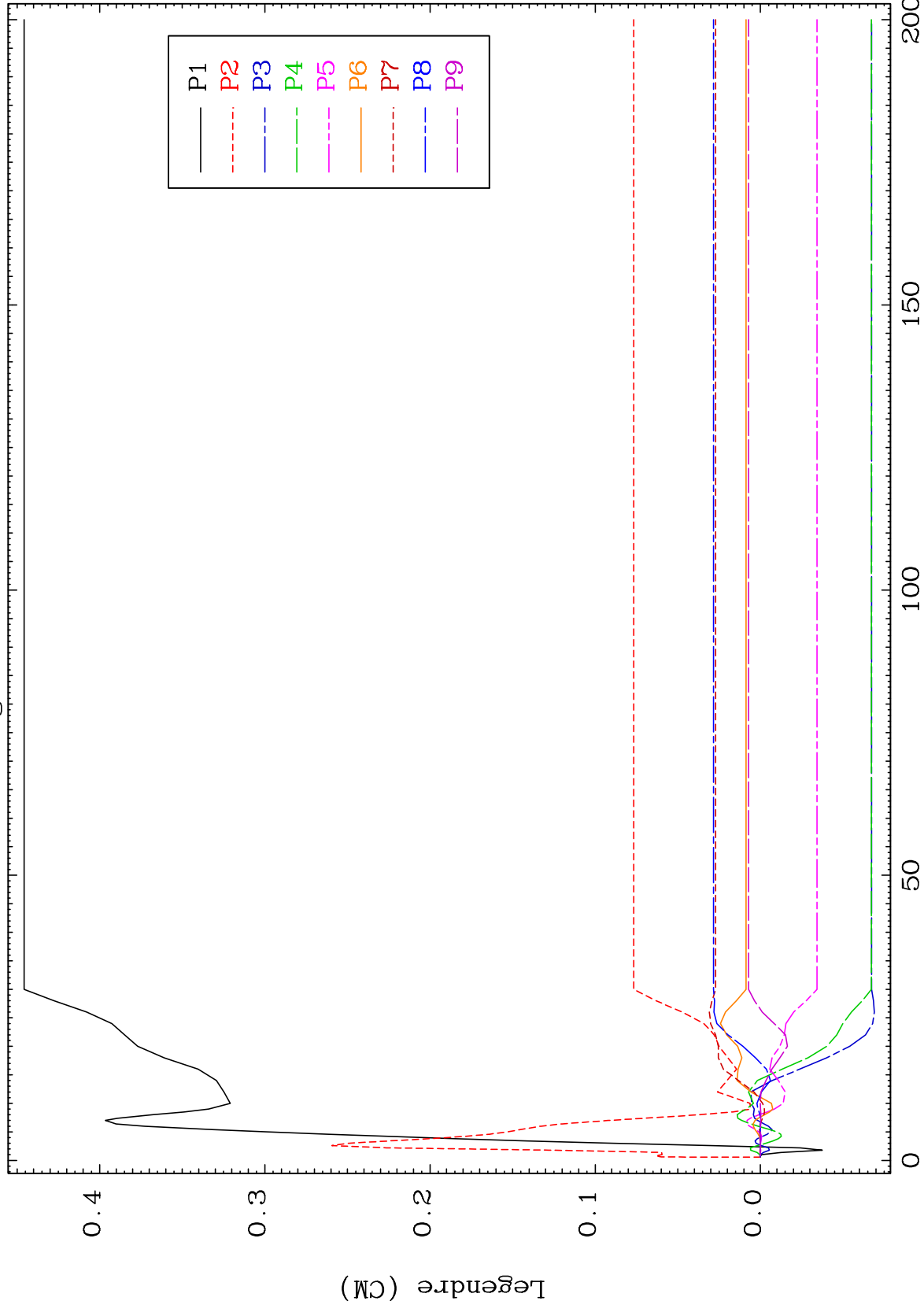
87-Fr-204



MAT 8701

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

87-Fr-204



86

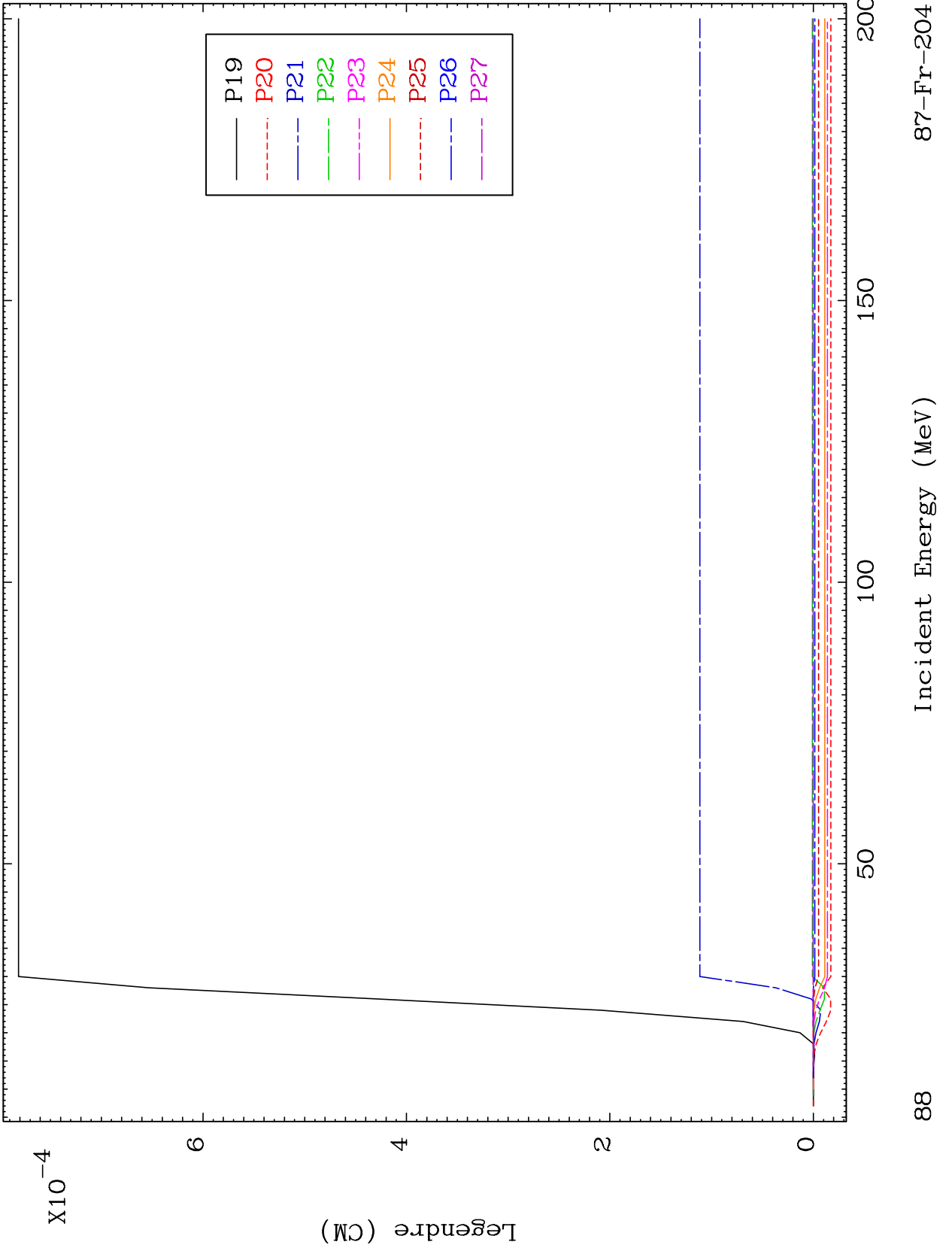
Incident Energy (MeV)

87-Fr-204

MAT 8701

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

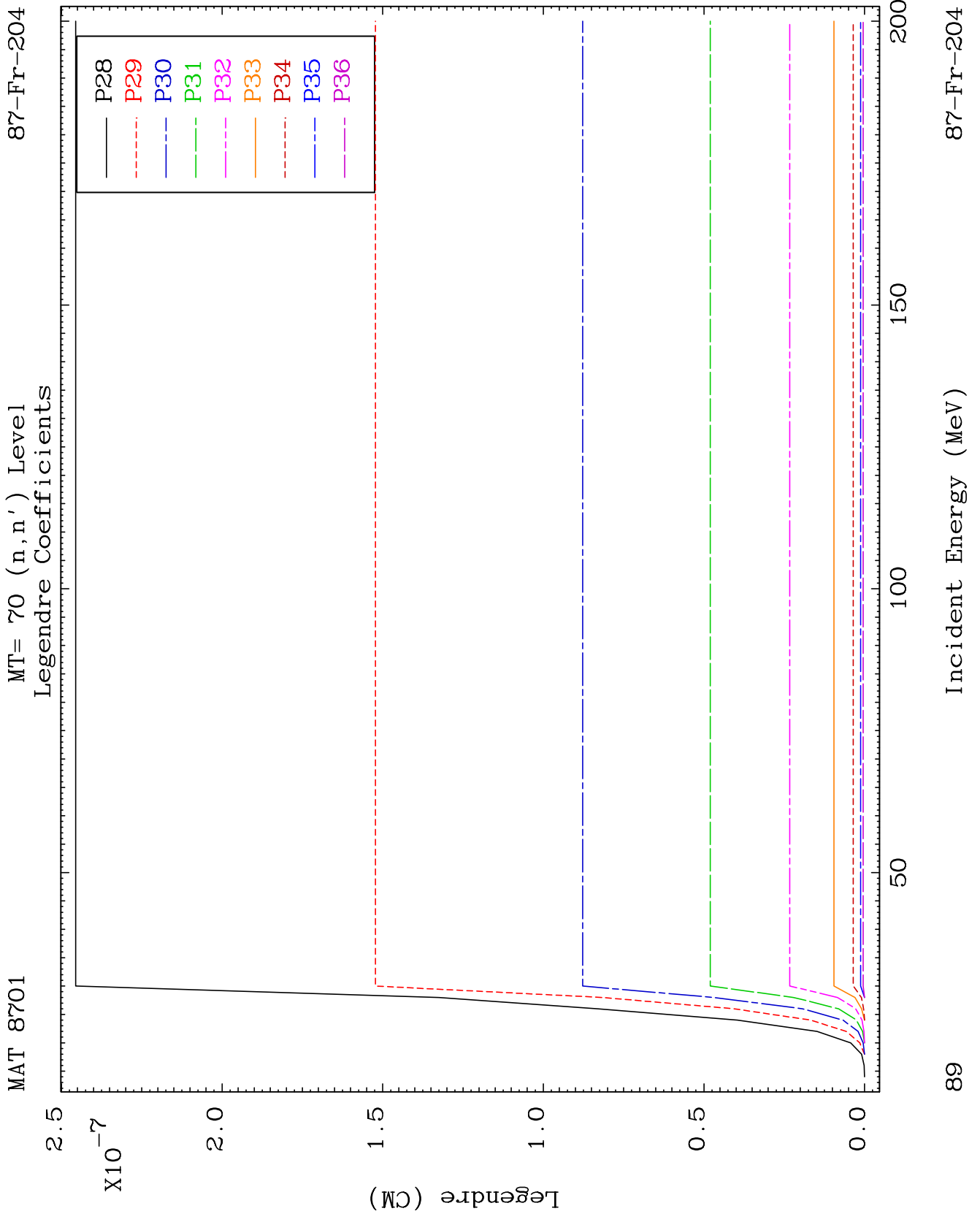
87-Fr-204



88

Incident Energy (MeV)

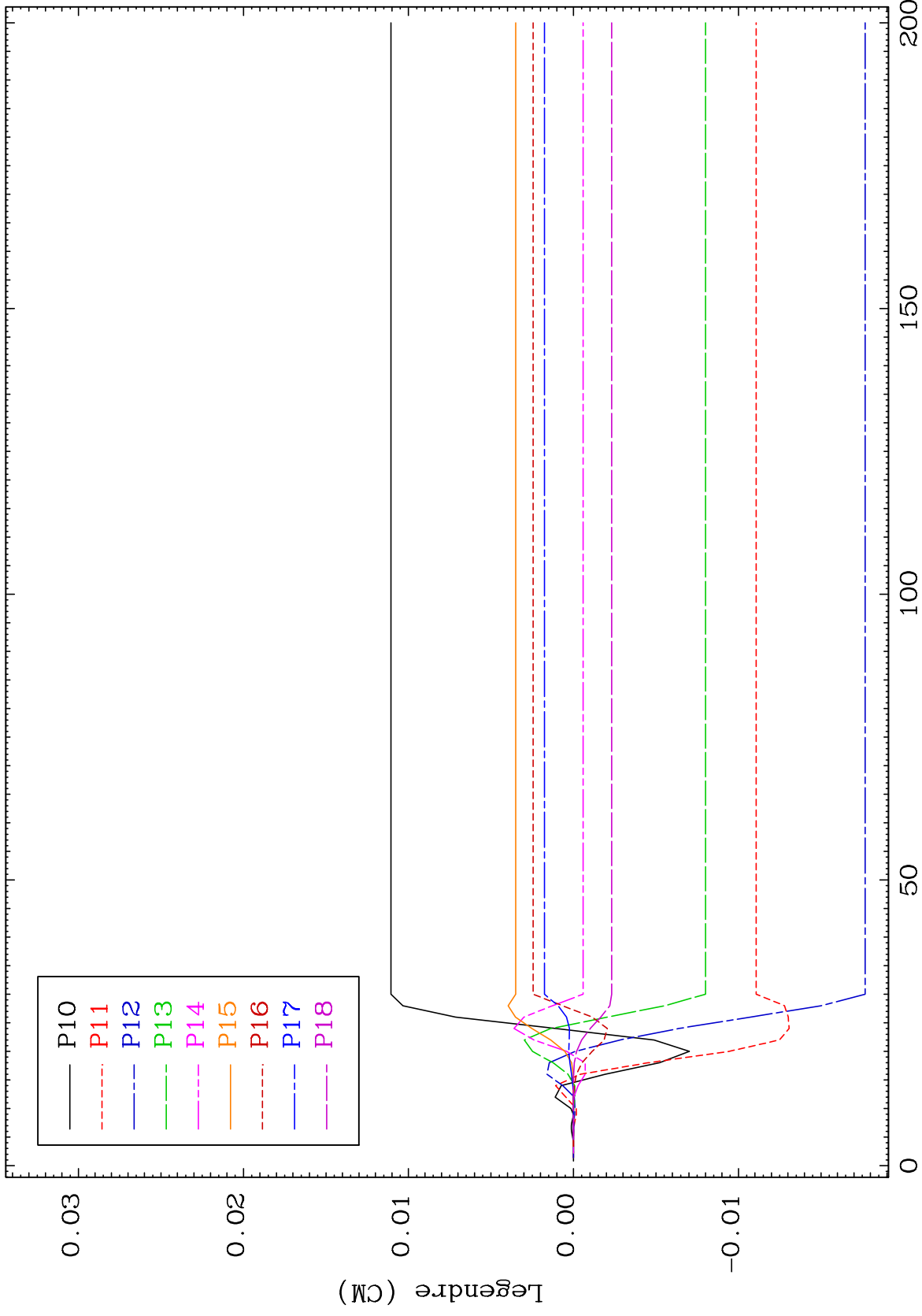
87-Fr-204



MAT 8701

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

87-Fr-204



91

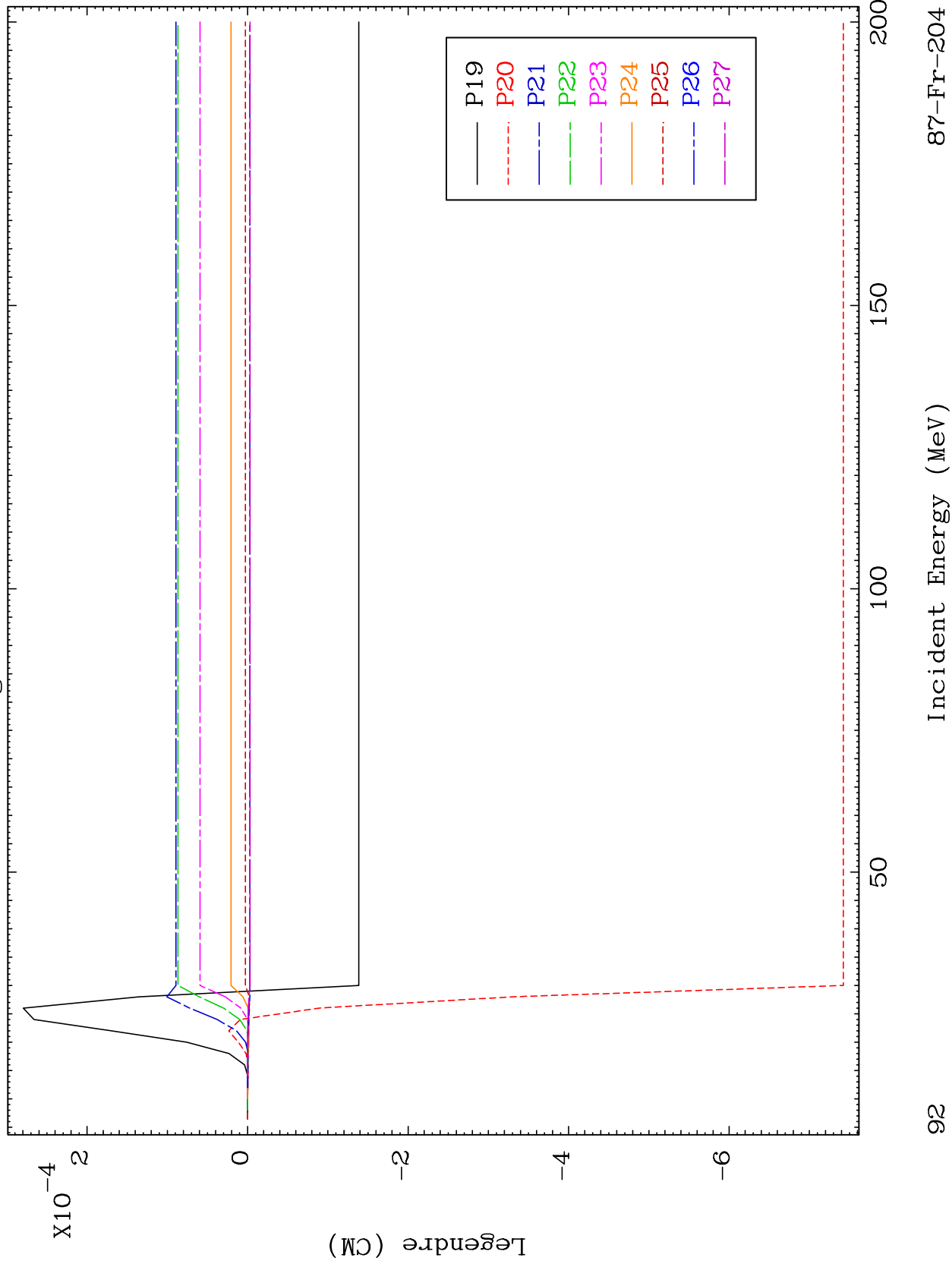
Incident Energy (MeV)

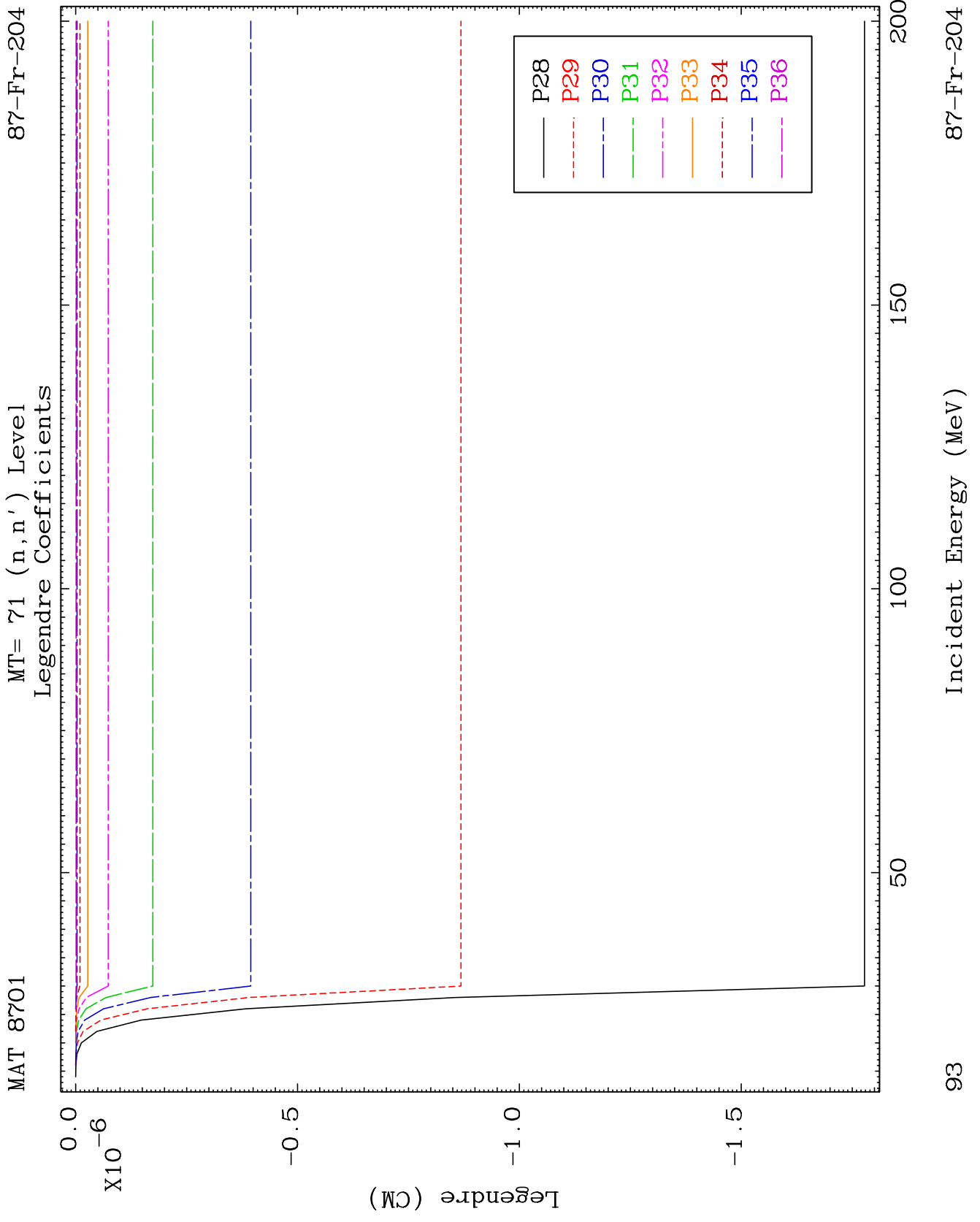
87-Fr-204

MAT 8701

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

87-Fr-204

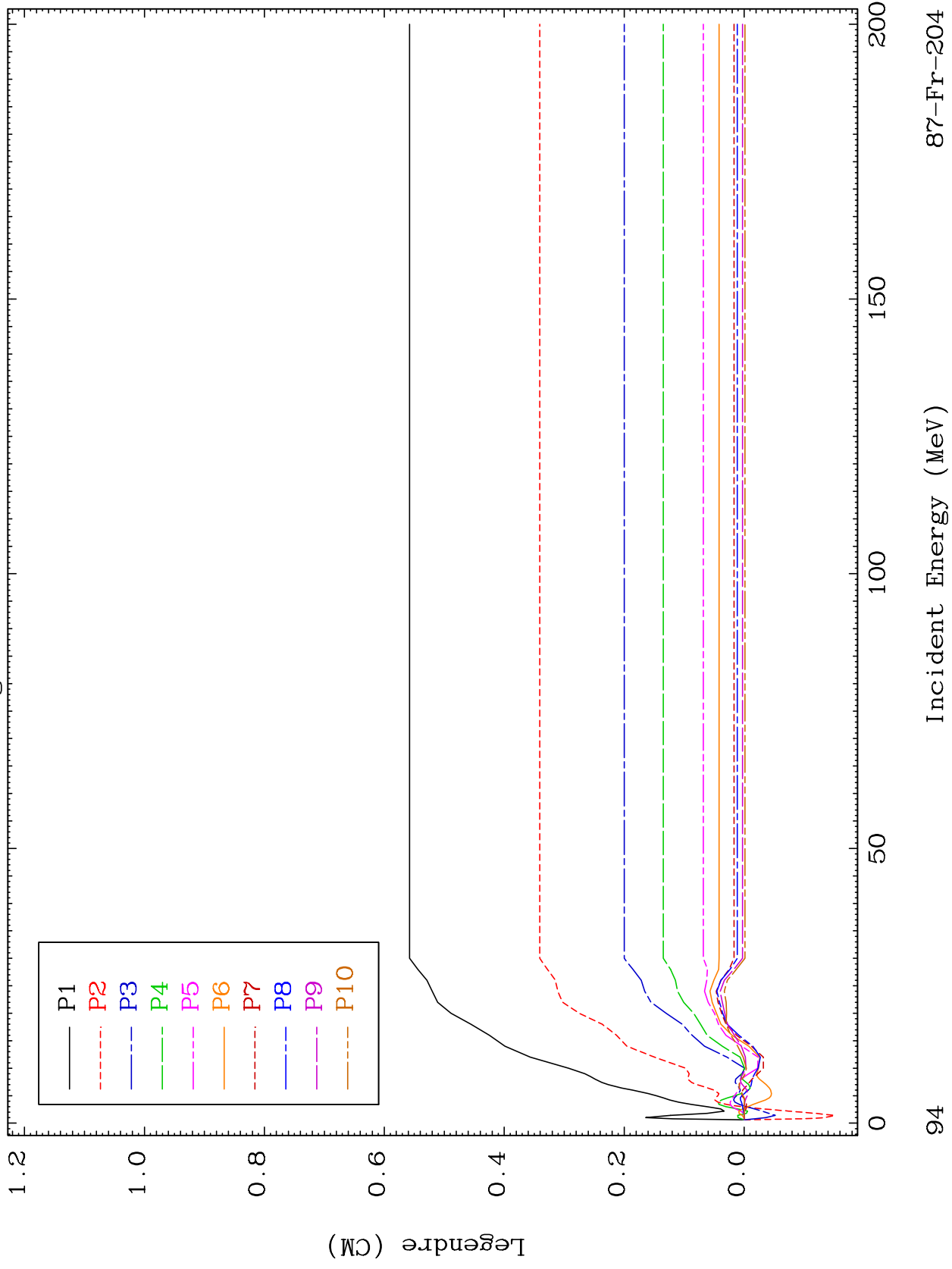




MAT 8701

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

87-Fr-204



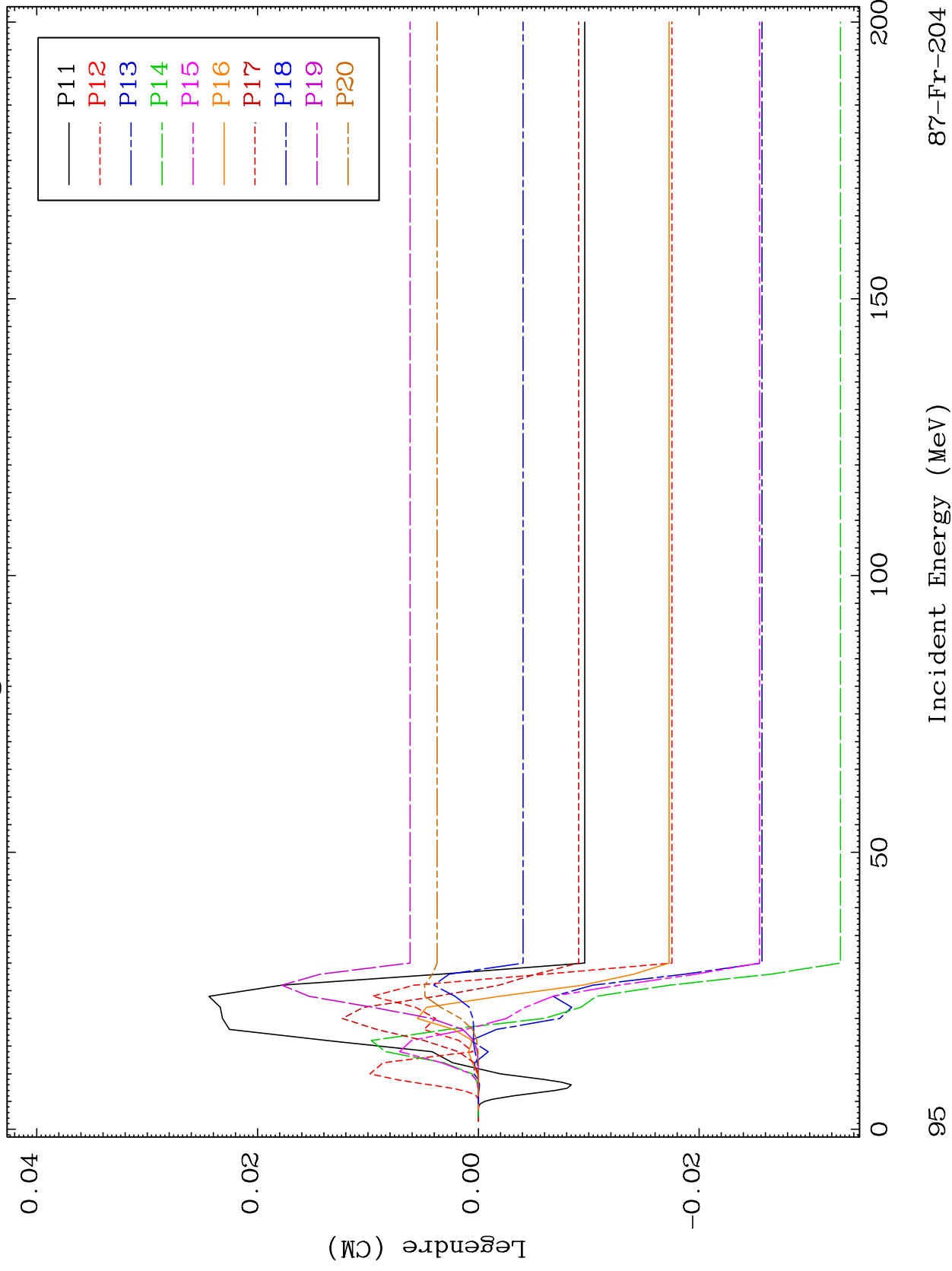
94

87-Fr-204

MAT 8701

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

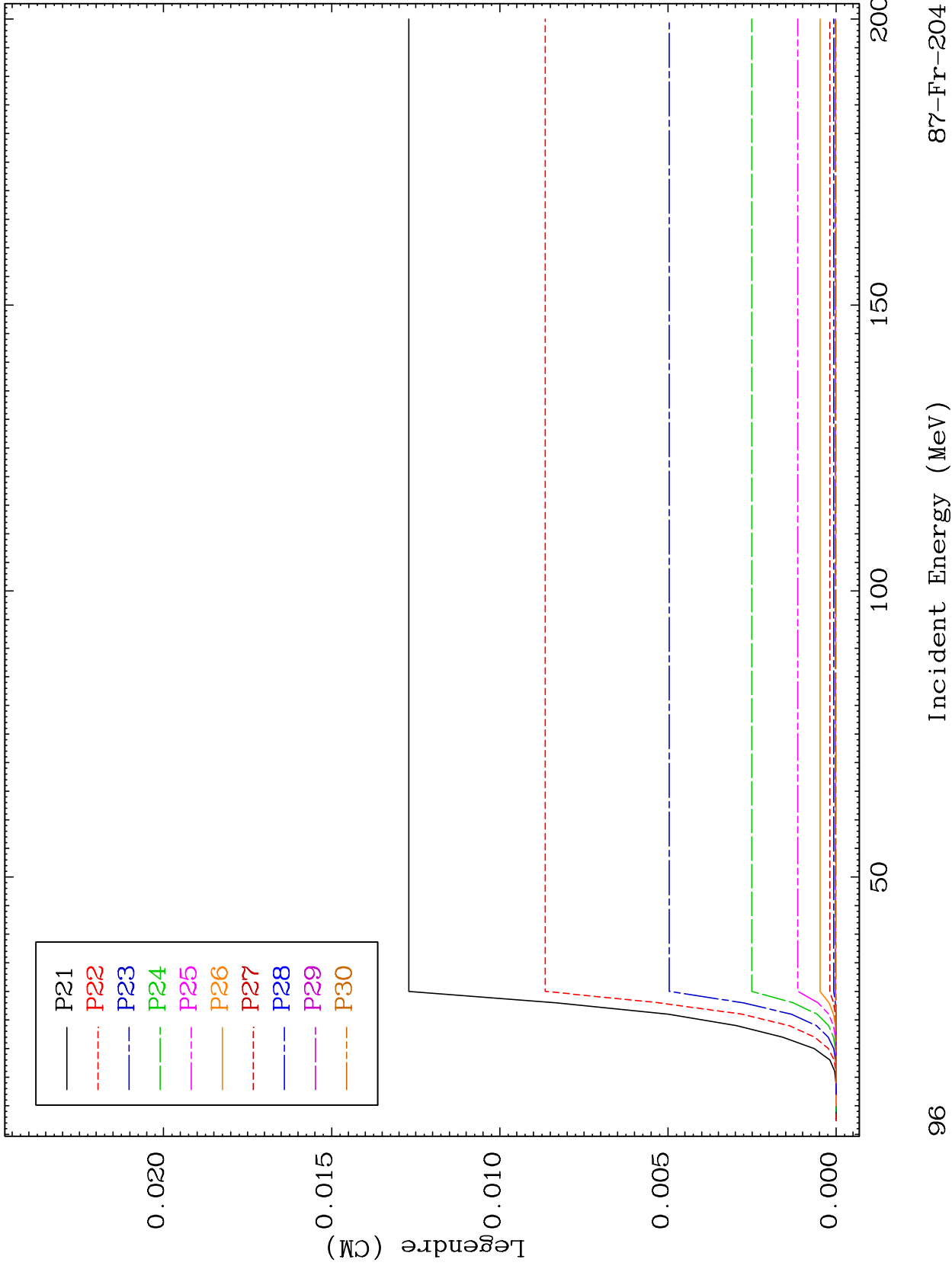
87-Fr-204



87-Fr-204

Incident Energy (MeV)

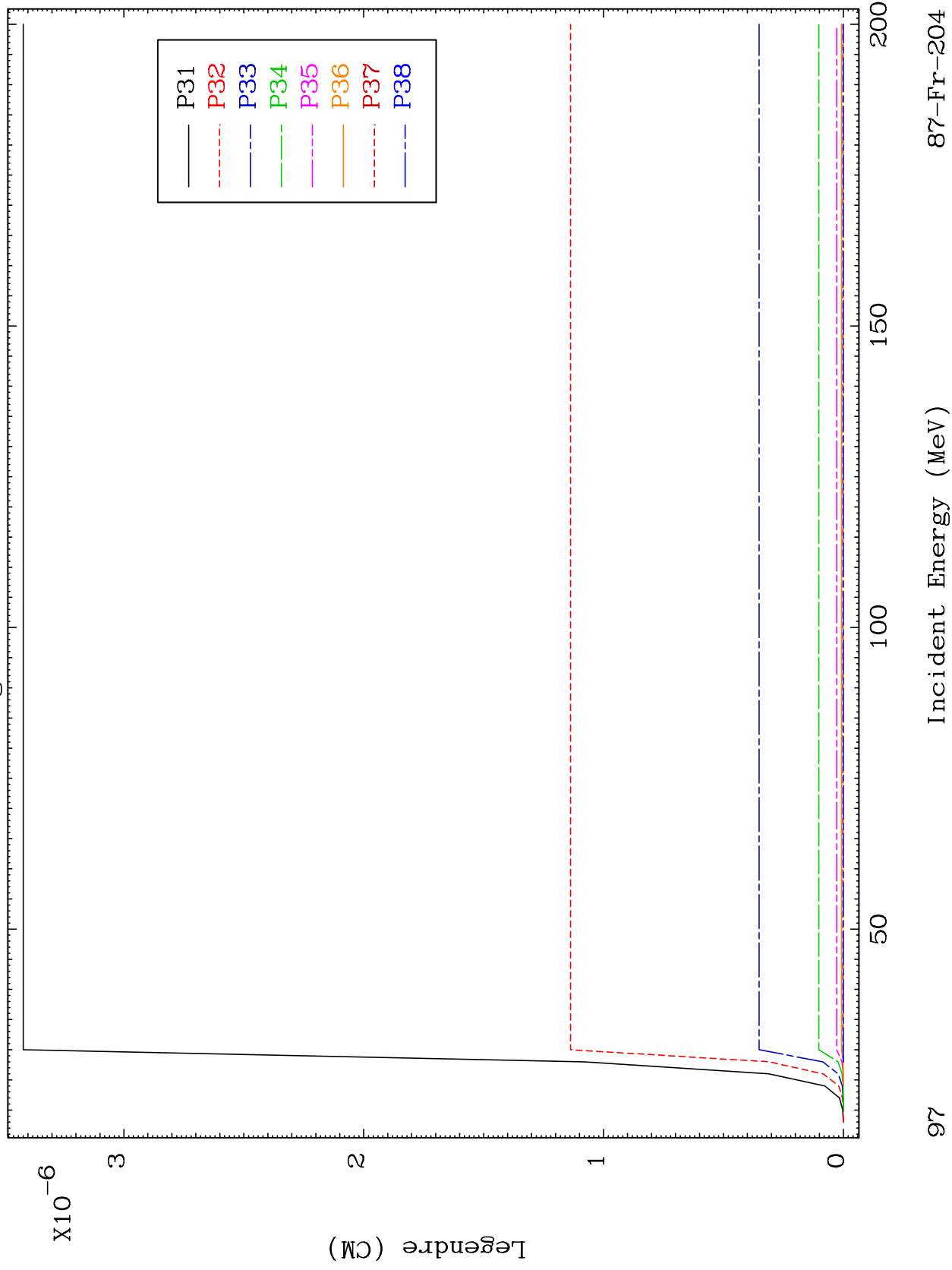
95



MAT 8701

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

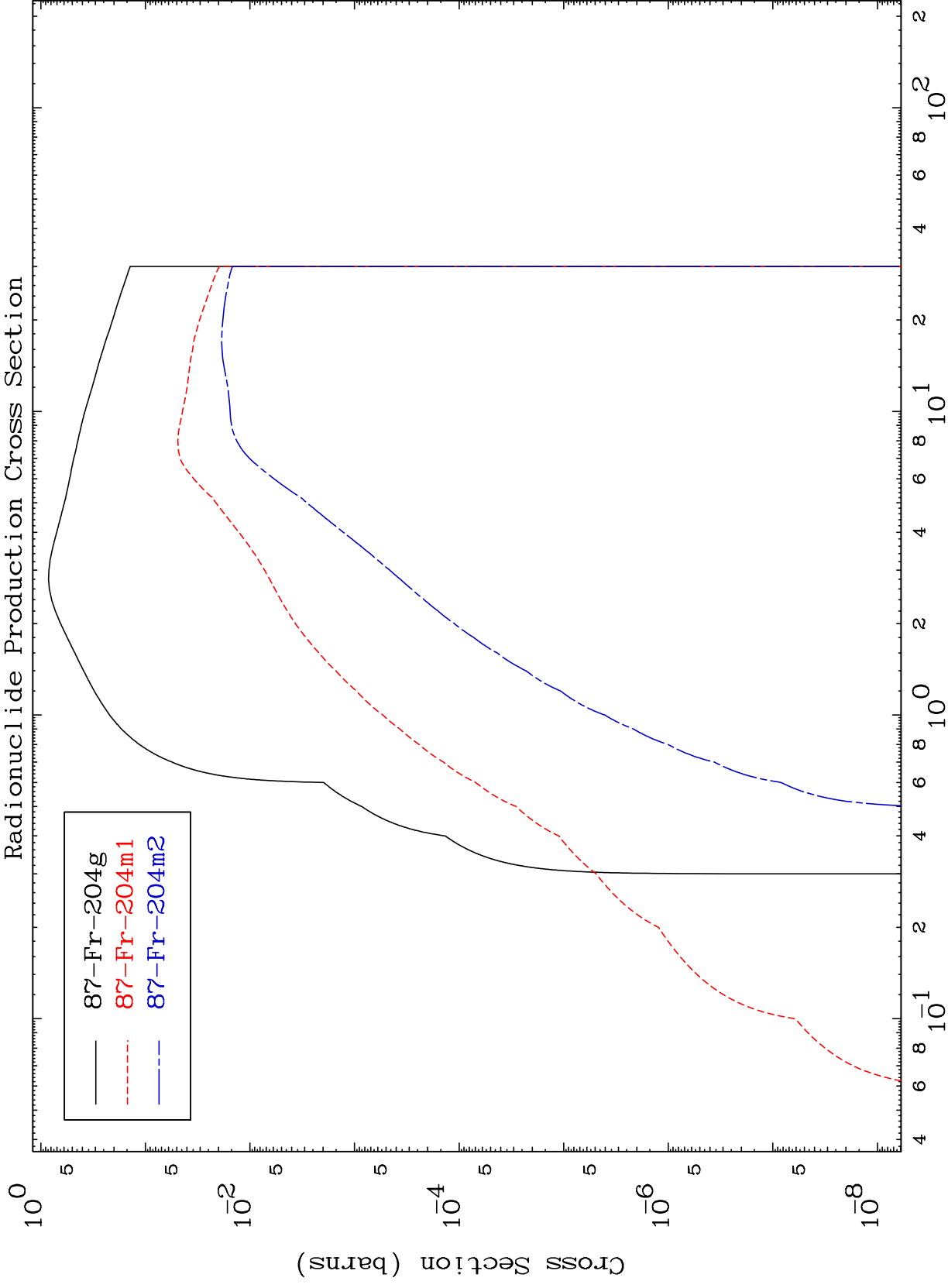
87-Fr-204



MAT 8701

87-Fr-204

Inelastic
Radionuclide Production Cross Section



98

87-Fr-204

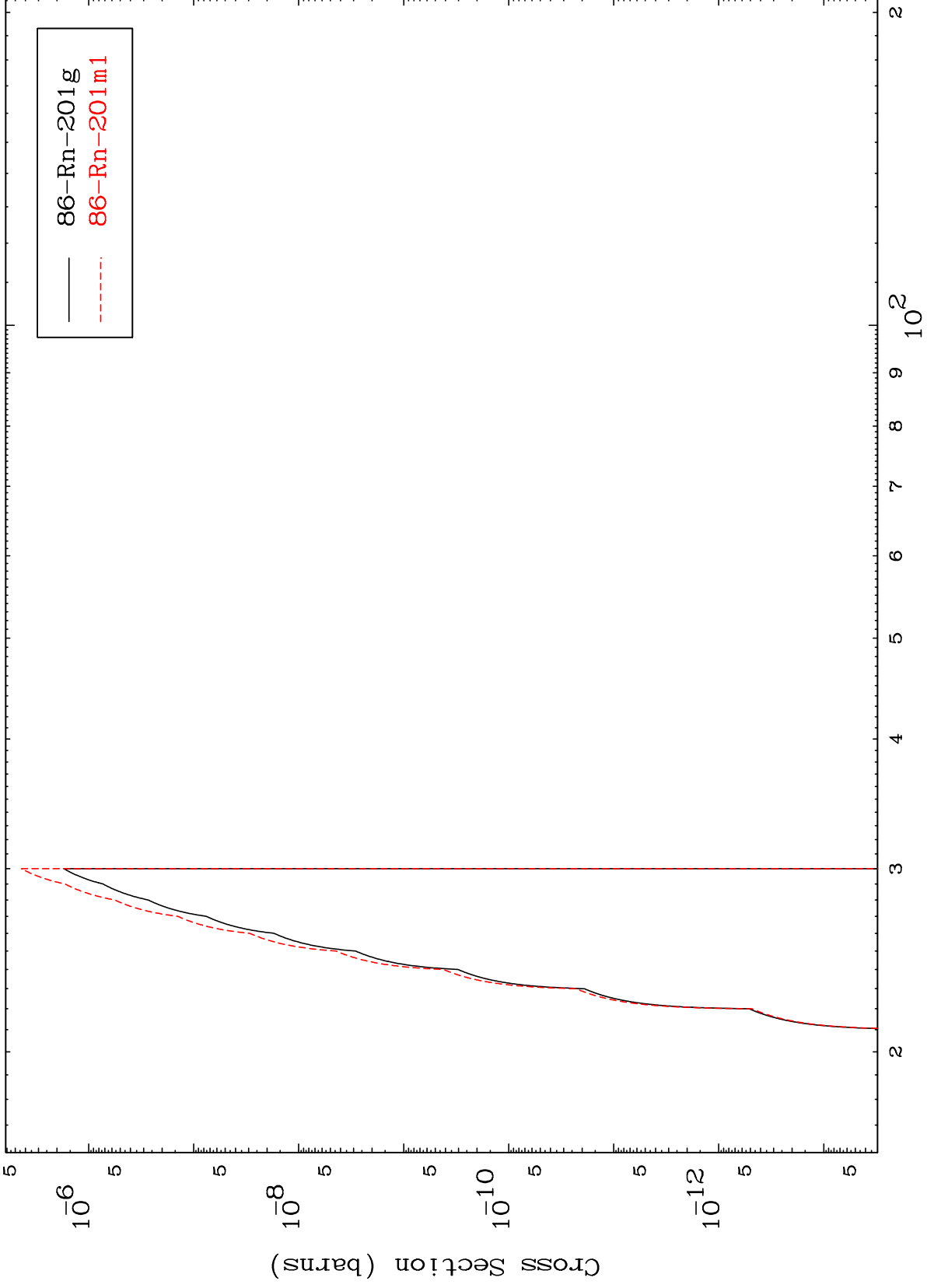
Incident Energy (MeV)

MAT 8701

(n,2n) d

87-Fr-204

Radionuclide Production Cross Section



99

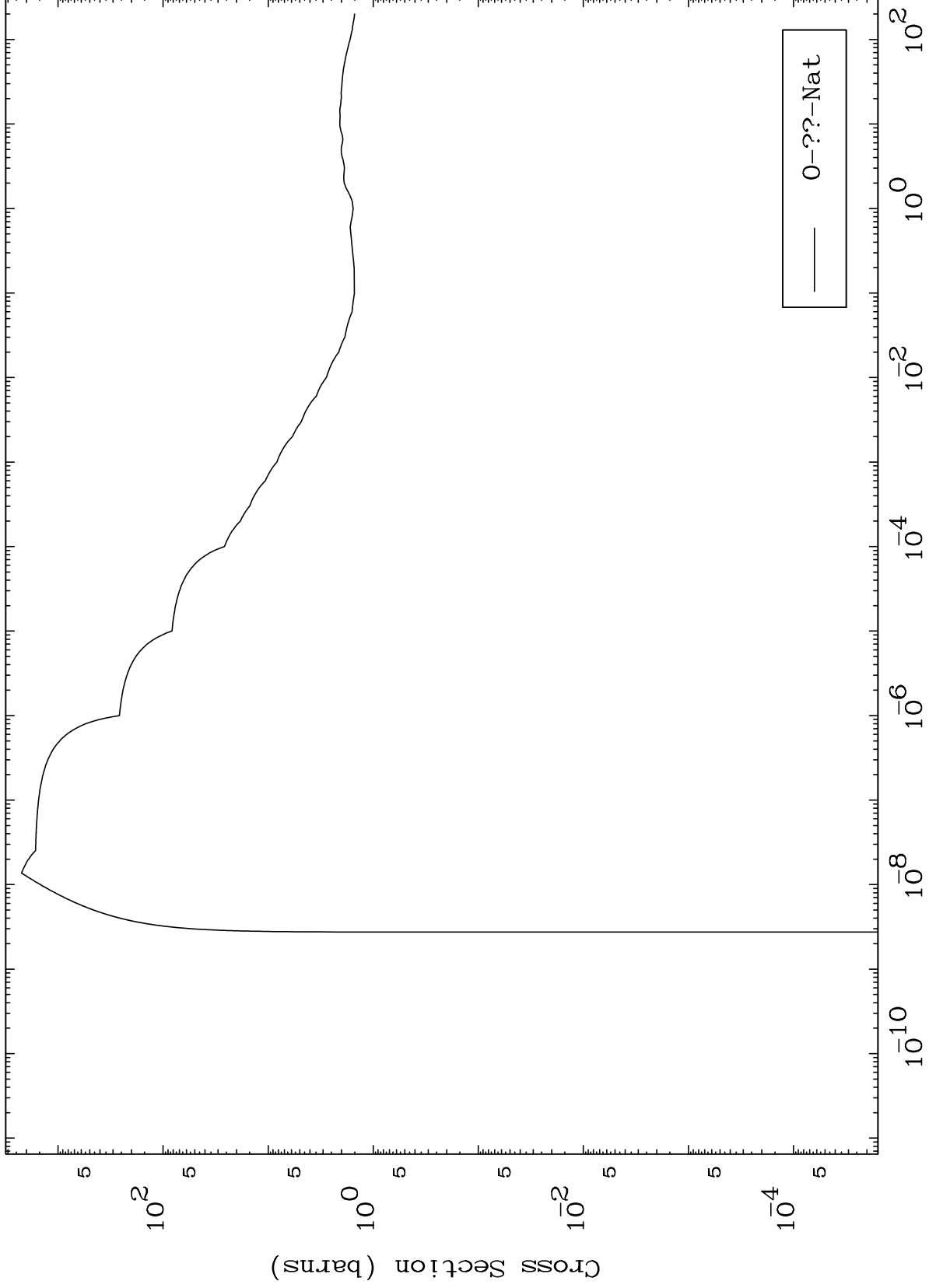
Incident Energy (MeV)

87-Fr-204

MAT 8701

87-Fr-204

Fission
Radionuclide Production Cross Section



100

87-Fr-204

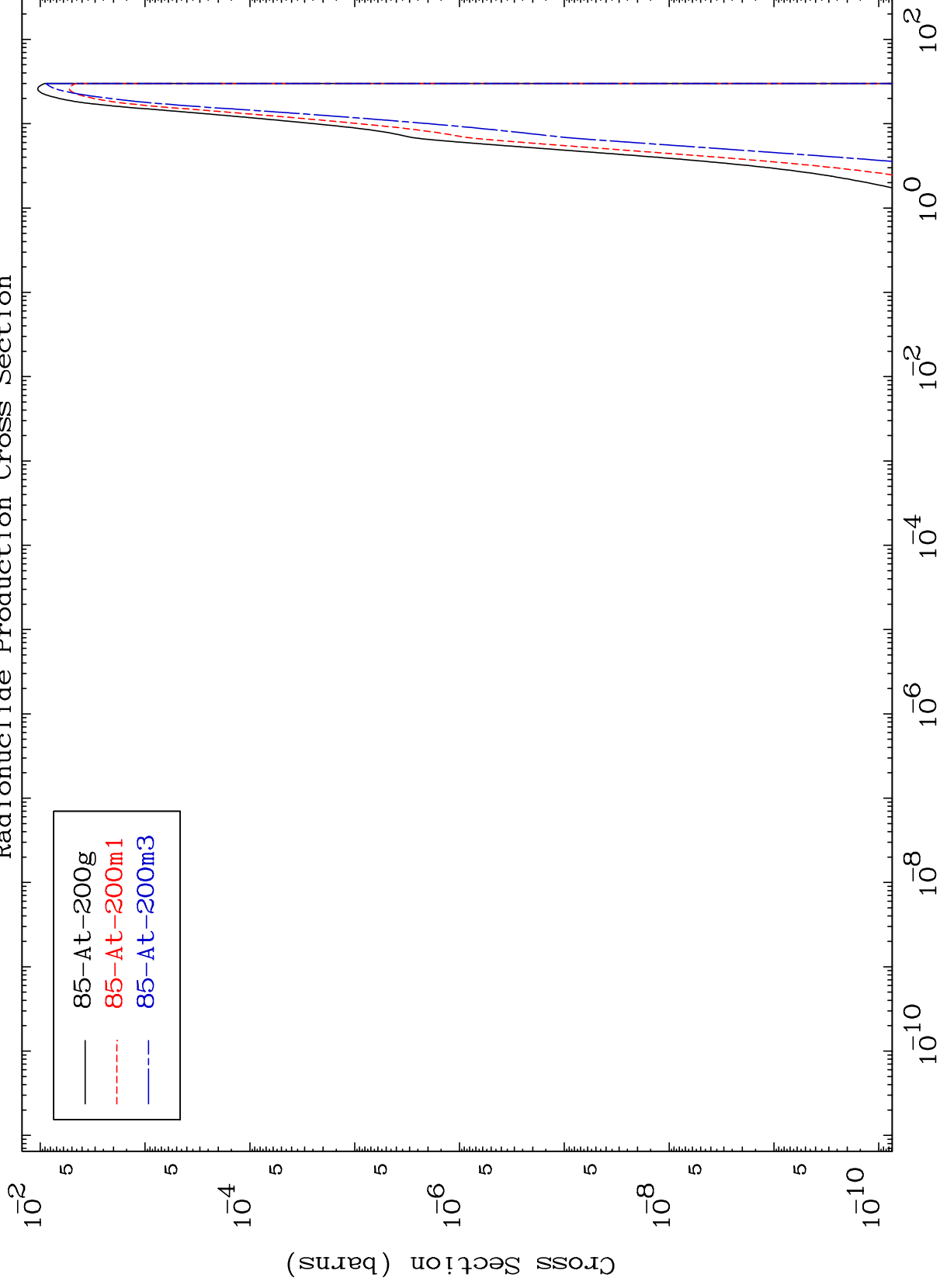
Incident Energy (MeV)

MAT 8701

$(n, n') \alpha$

87-Fr-204

Radionuclide Production Cross Section

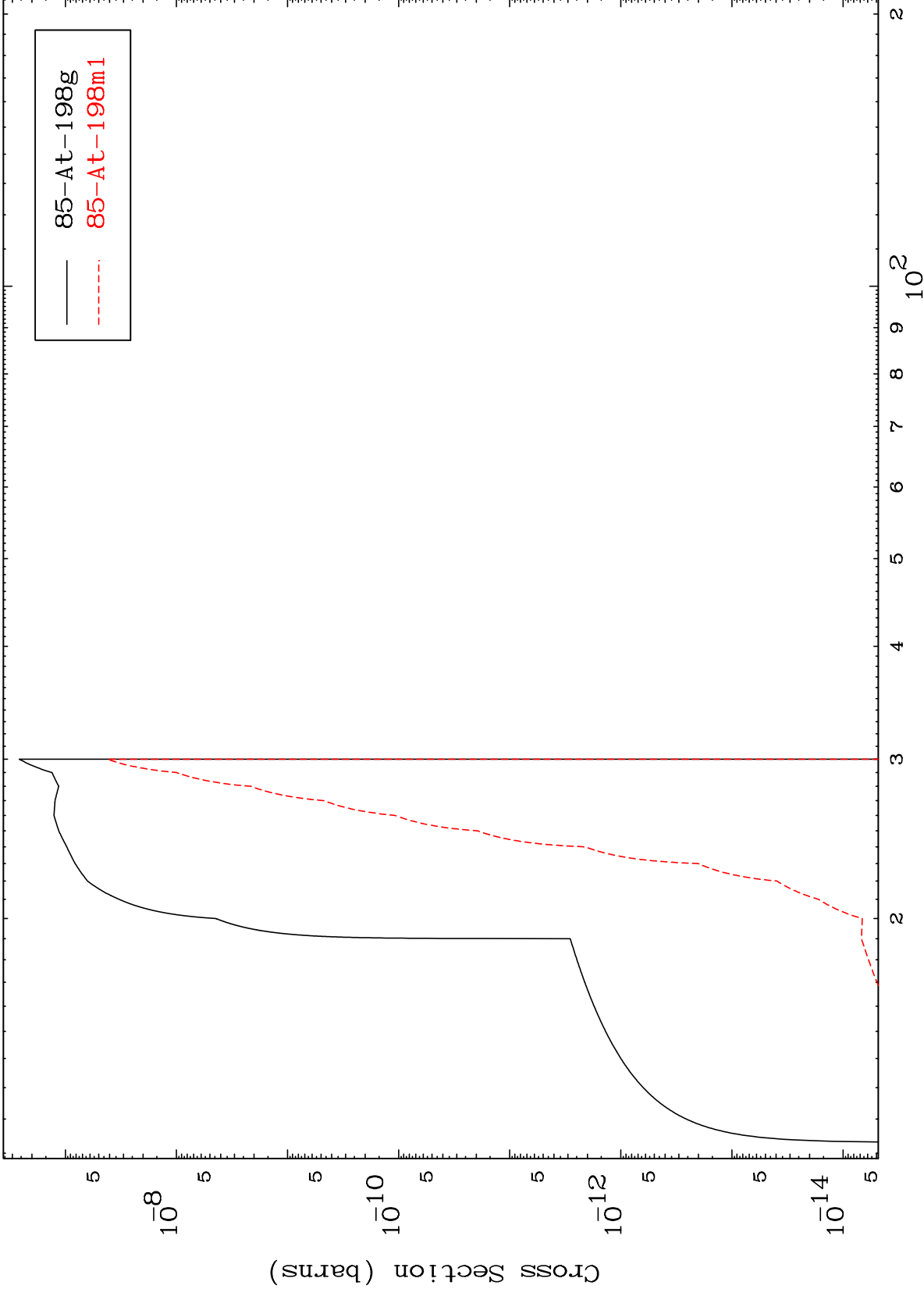


101

Incident Energy (MeV)

87-Fr-204

Radionuclide Production Cross Section

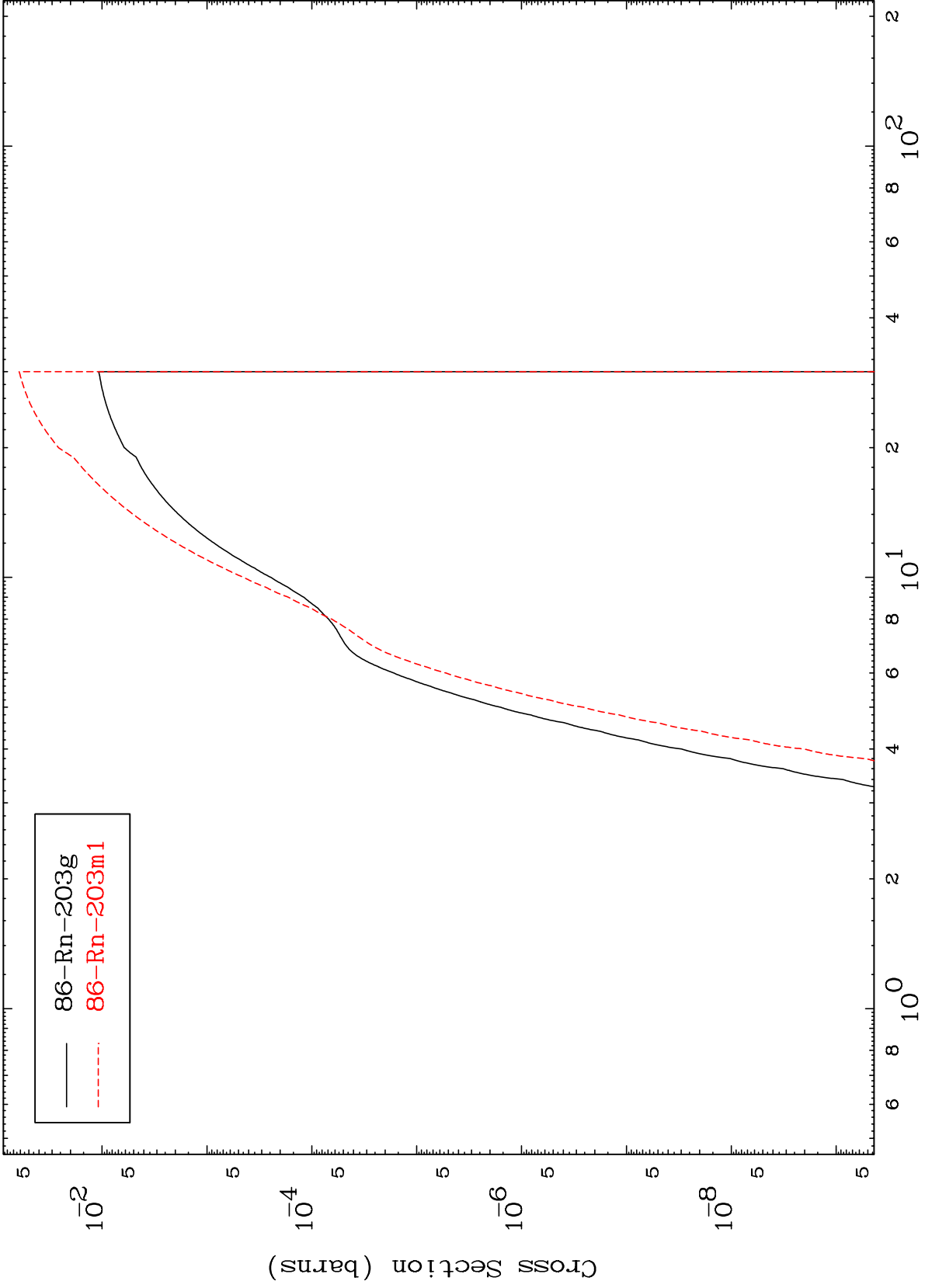


MAT 8701

(n,n') p

87-Fr-204

Radionuclide Production Cross Section



103

Incident Energy (MeV)

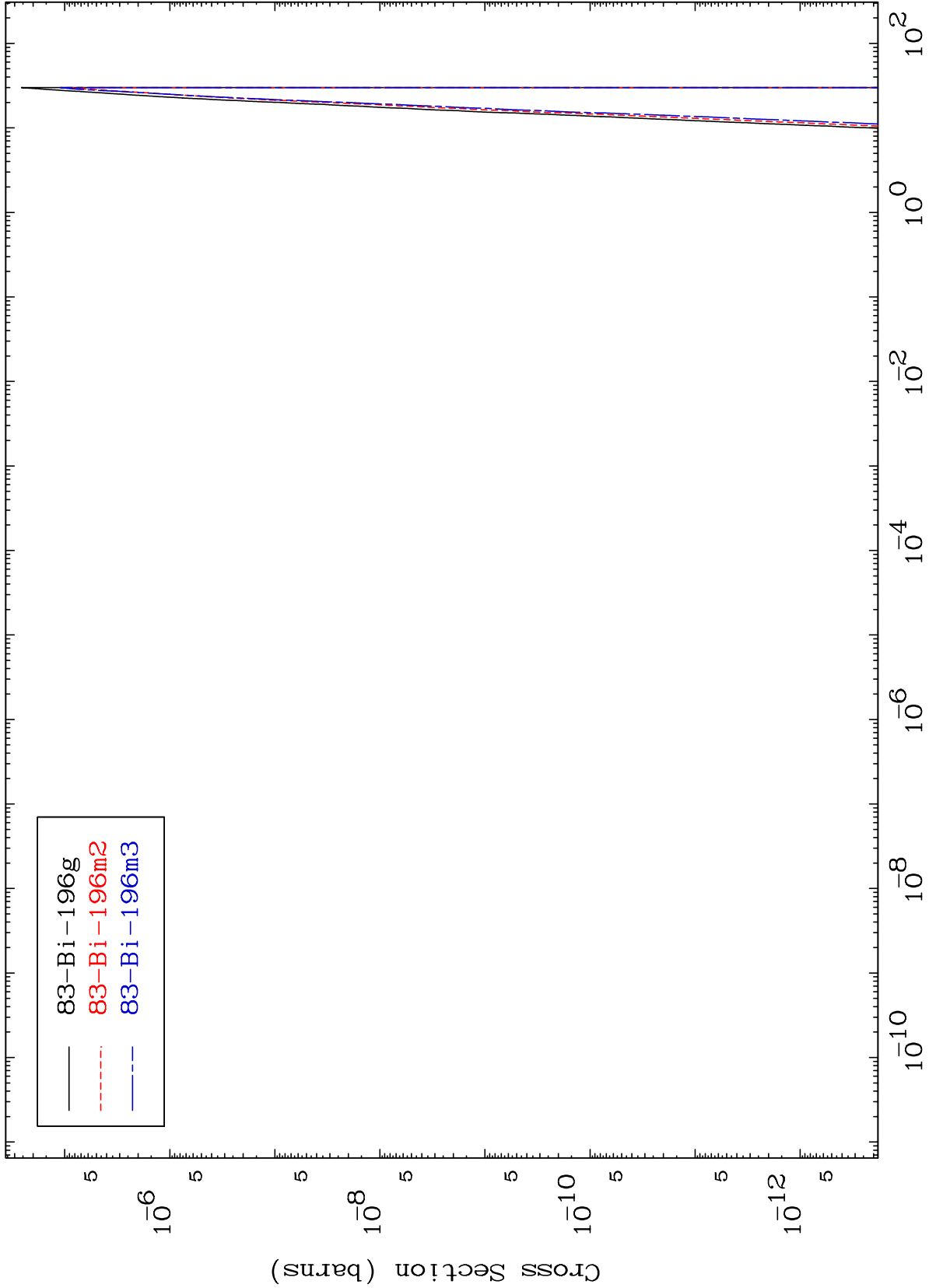
87-Fr-204

MAT 8701

(n,n') 2 α

87-Fr-204

Radionuclide Production Cross Section



83-Bi-196g
83-Bi-196m2
83-Bi-196m3

104

Incident Energy (MeV)

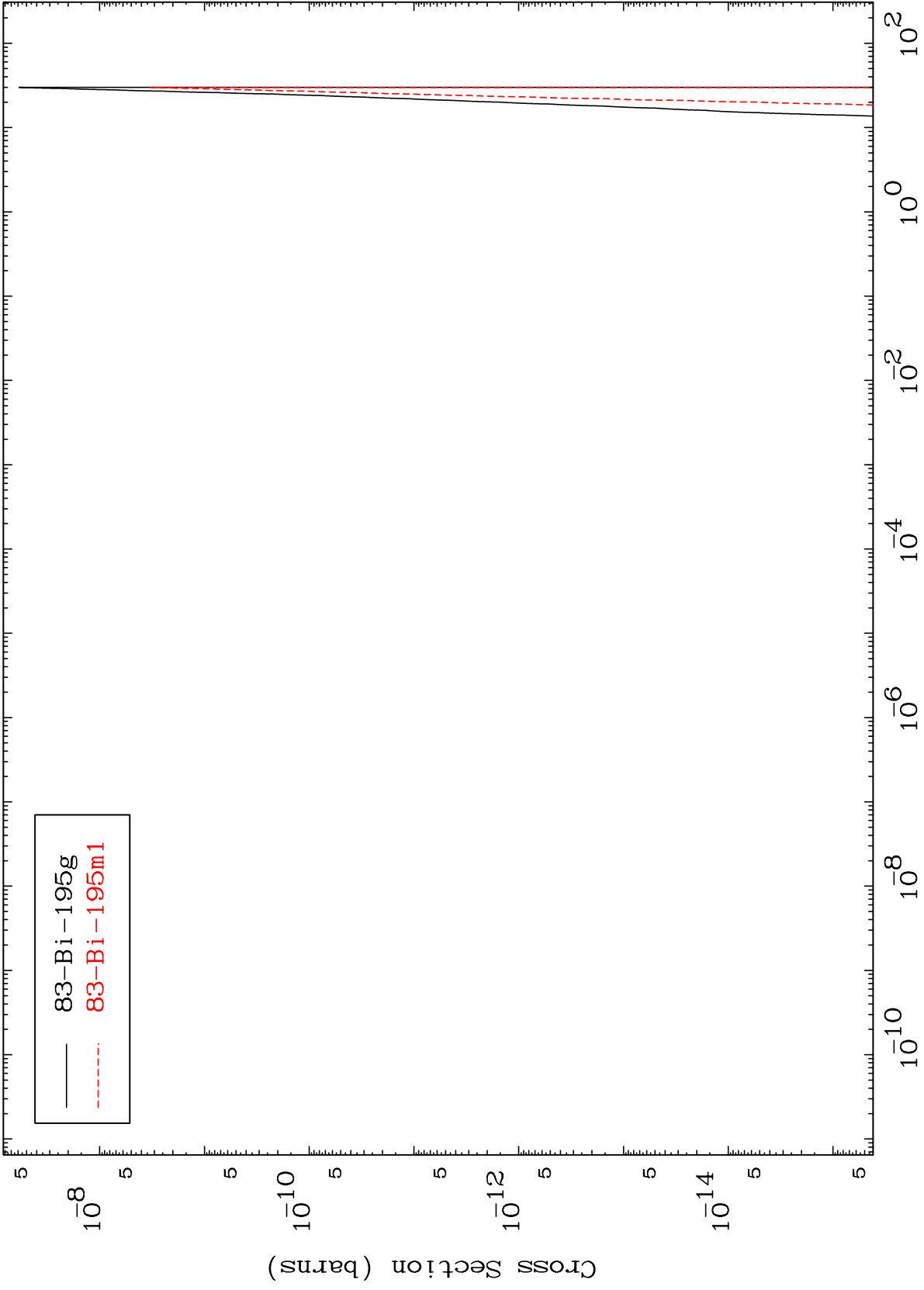
87-Fr-204

MAT 8701

(n,2n) 2 α

87-Fr-204

Radionuclide Production Cross Section



105

Incident Energy (MeV)

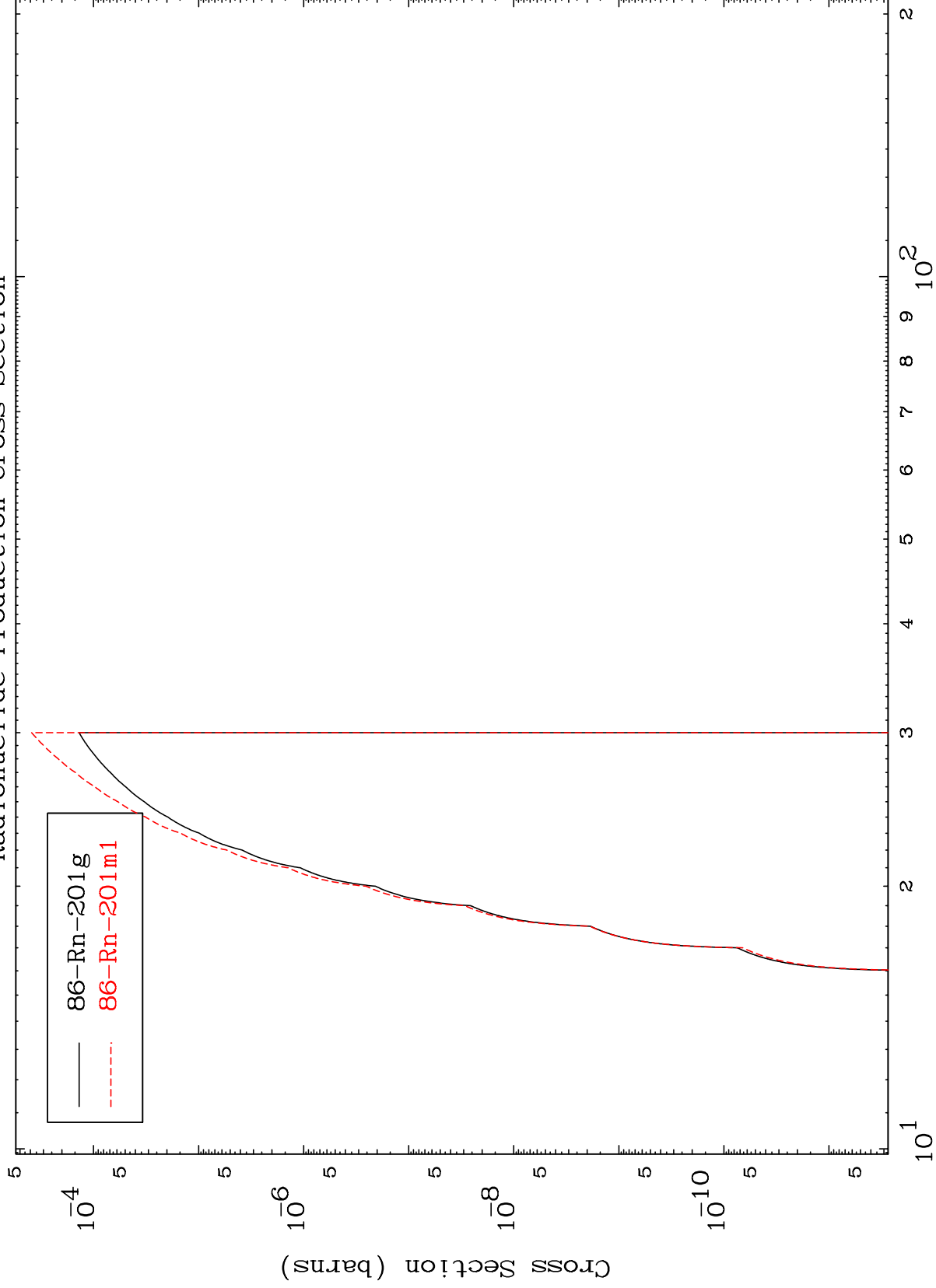
87-Fr-204

MAT 8701

(n,n') t

87-Fr-204

Radionuclide Production Cross Section



Incident Energy (MeV)

87-Fr-204

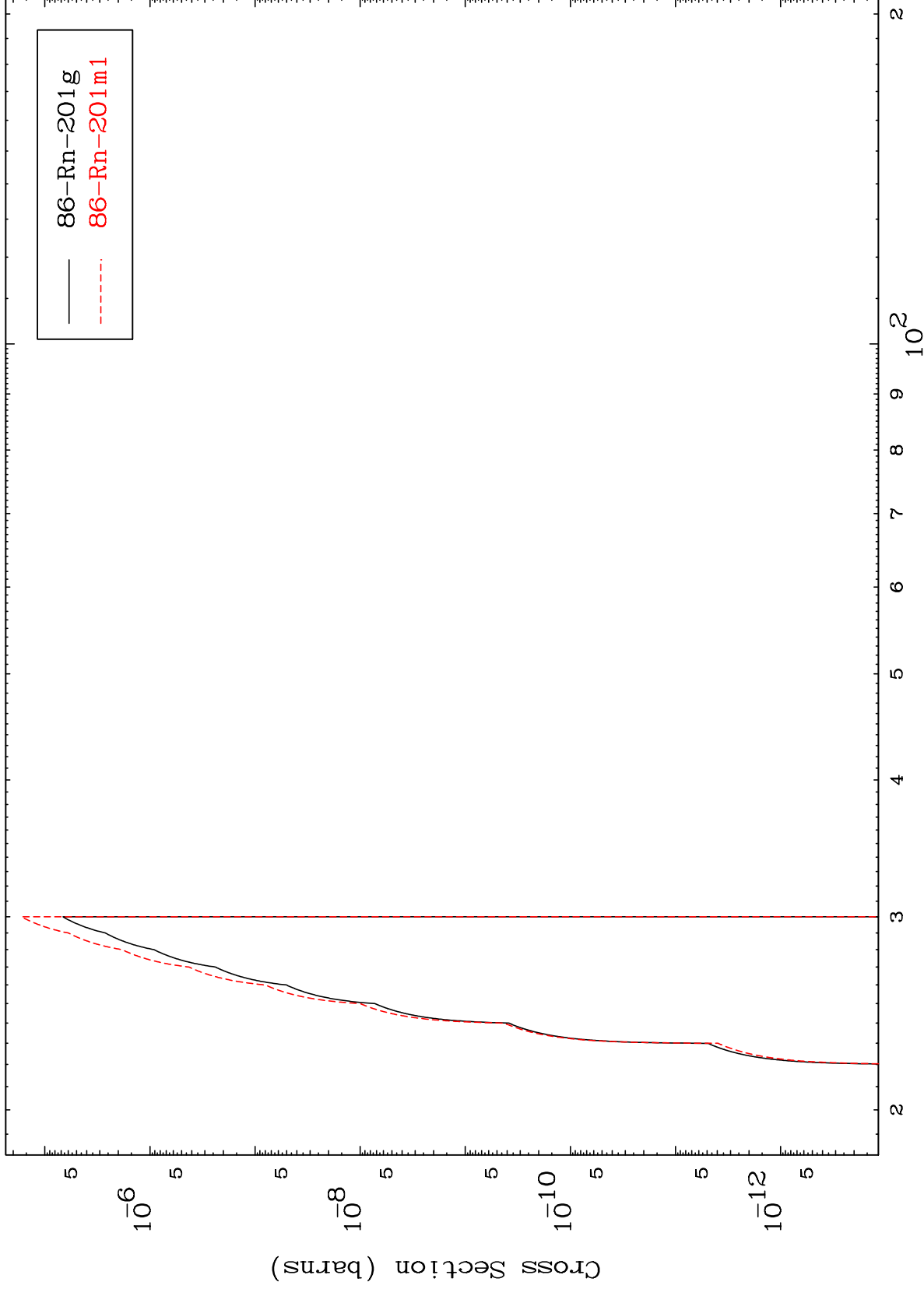
106

MAT 8701

(n,3n) p

87-Fr-204

Radionuclide Production Cross Section



107

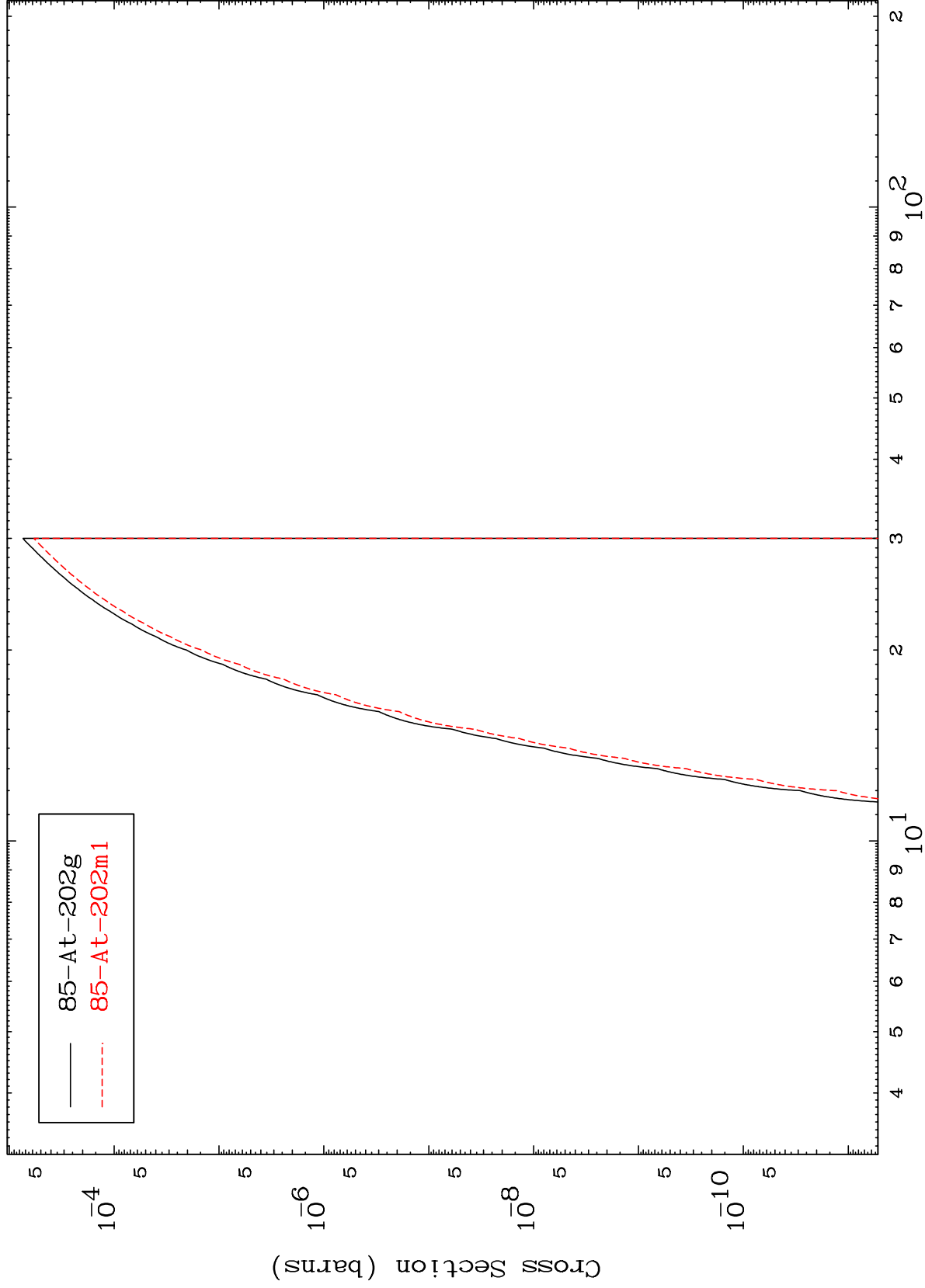
Incident Energy (MeV)

87-Fr-204

MAT 8701

87-Fr-204

(n,2n) p
Radionuclide Production Cross Section



108

Incident Energy (MeV)

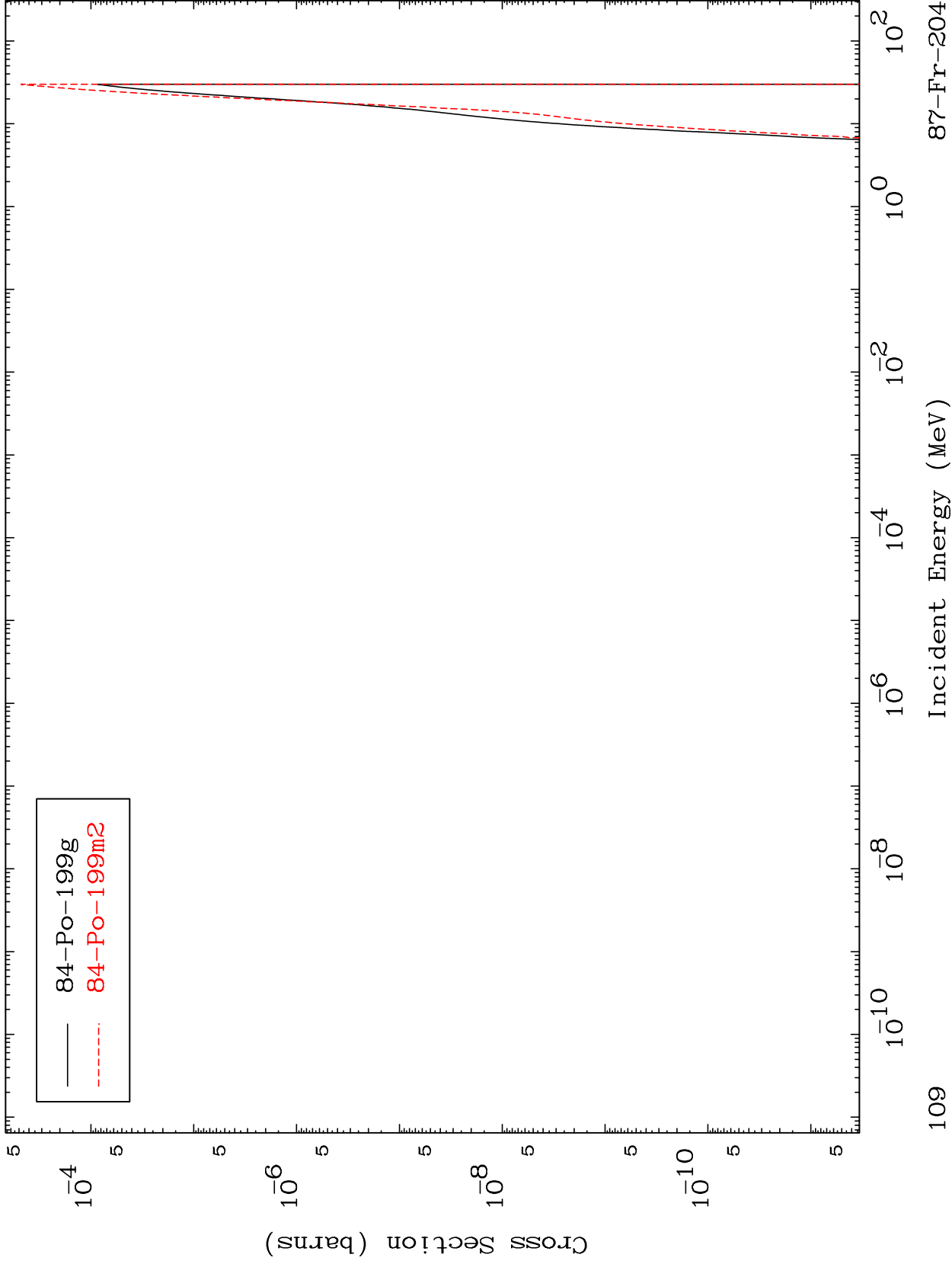
87-Fr-204

MAT 8701

(n,n') p α

87-Fr-204

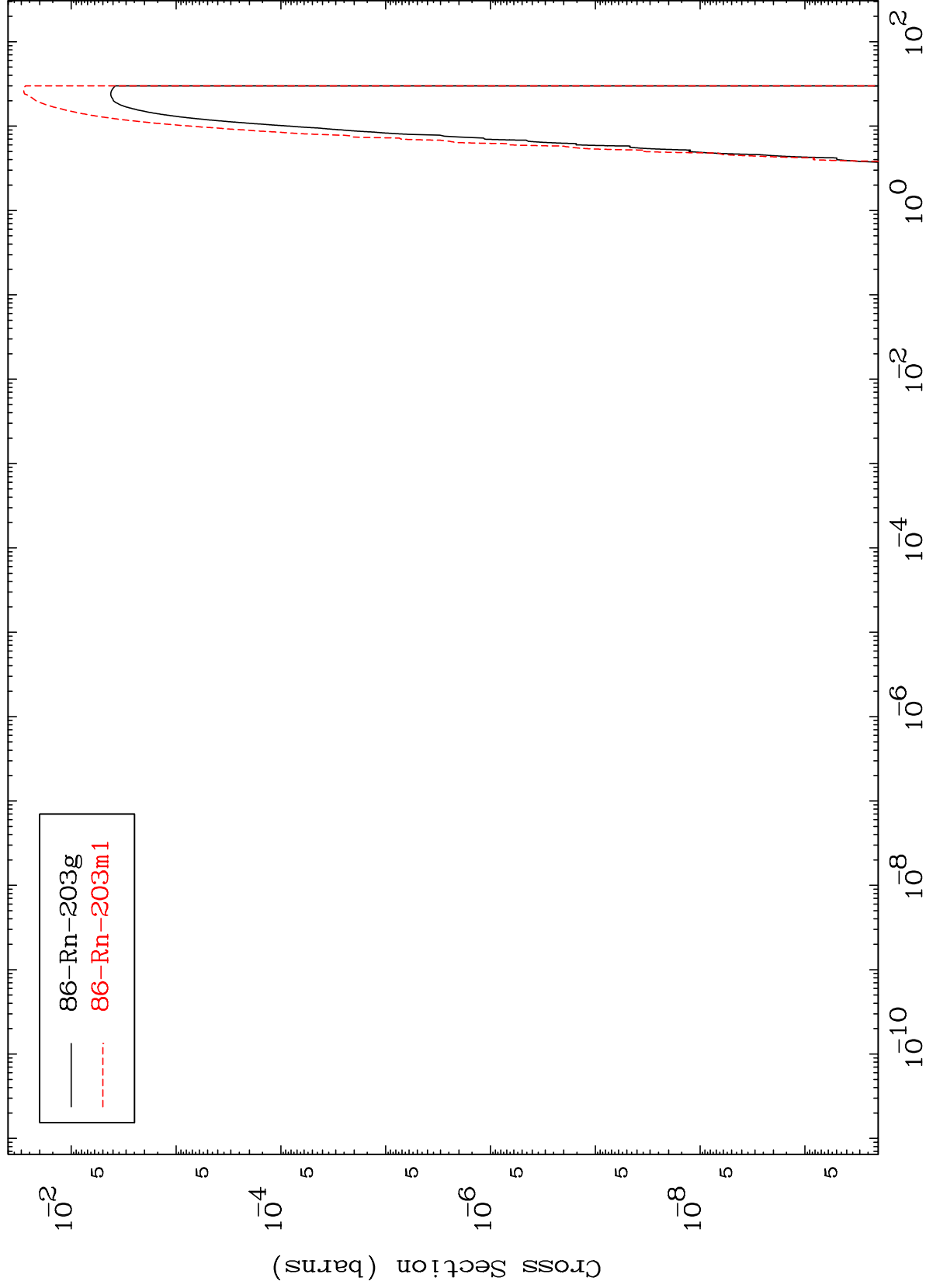
Radionuclide Production Cross Section



MAT 8701

(n,d)
Radionuclide Production Cross Section

87-Fr-204



110

Incident Energy (MeV)

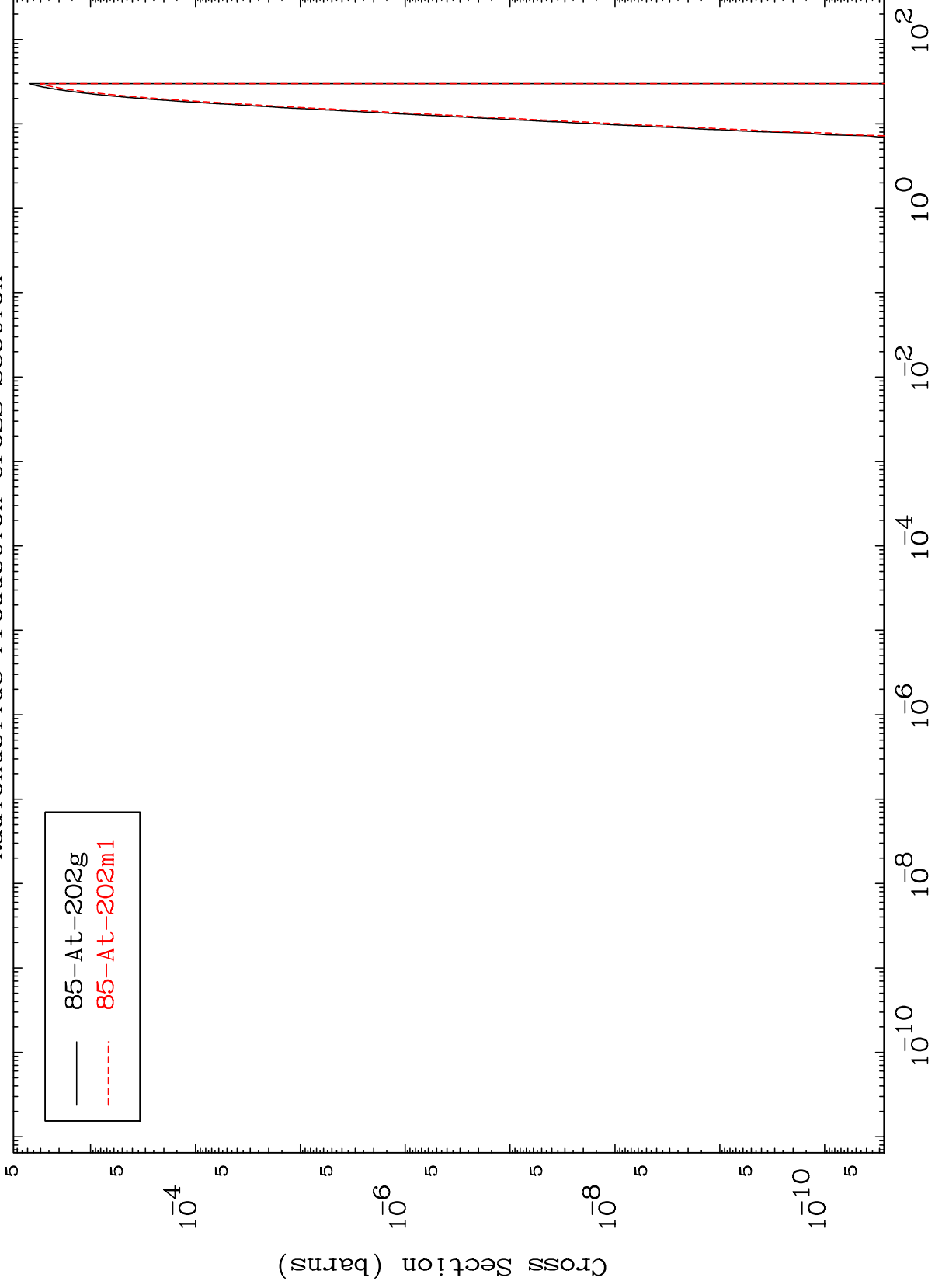
87-Fr-204

MAT 8701

(n,He-3)

87-Fr-204

Radionuclide Production Cross Section



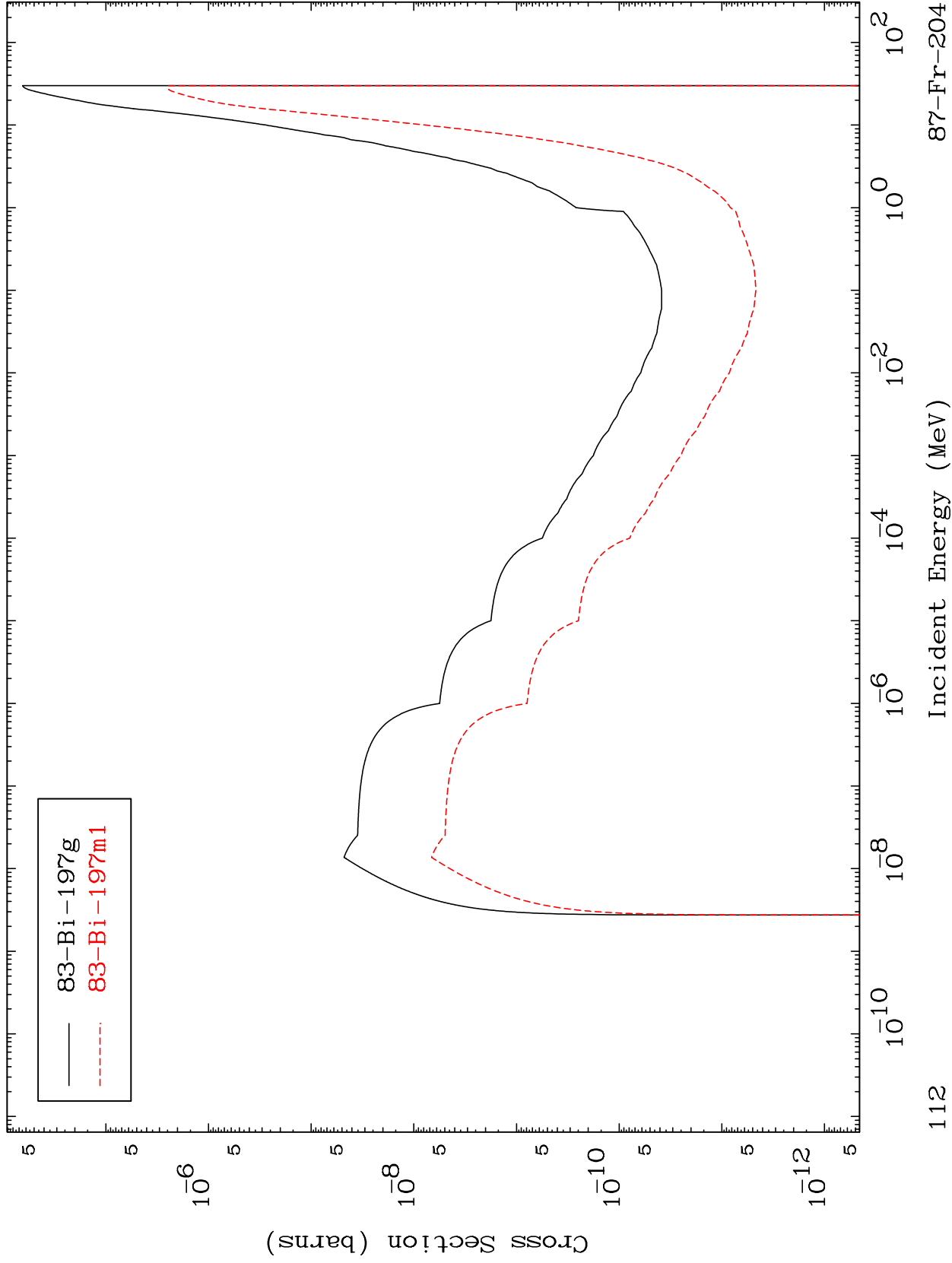
85-At-202g
85-At-202m1

MAT 8701

(n,2α)

87-Fr-204

Radionuclide Production Cross Section

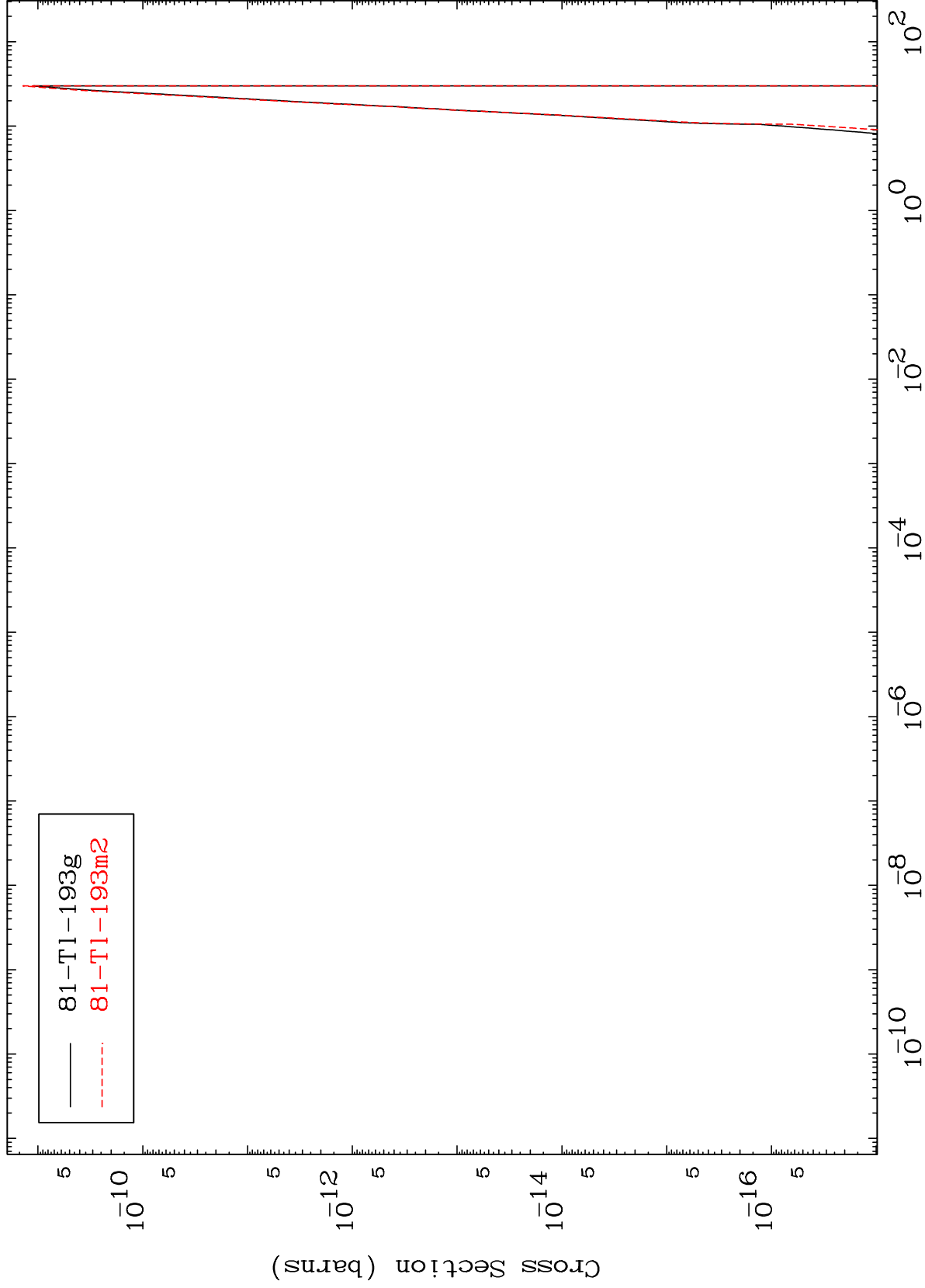


MAT 8701

(n, 3α)

87-Fr-204

Radionuclide Production Cross Section



113

Incident Energy (MeV)

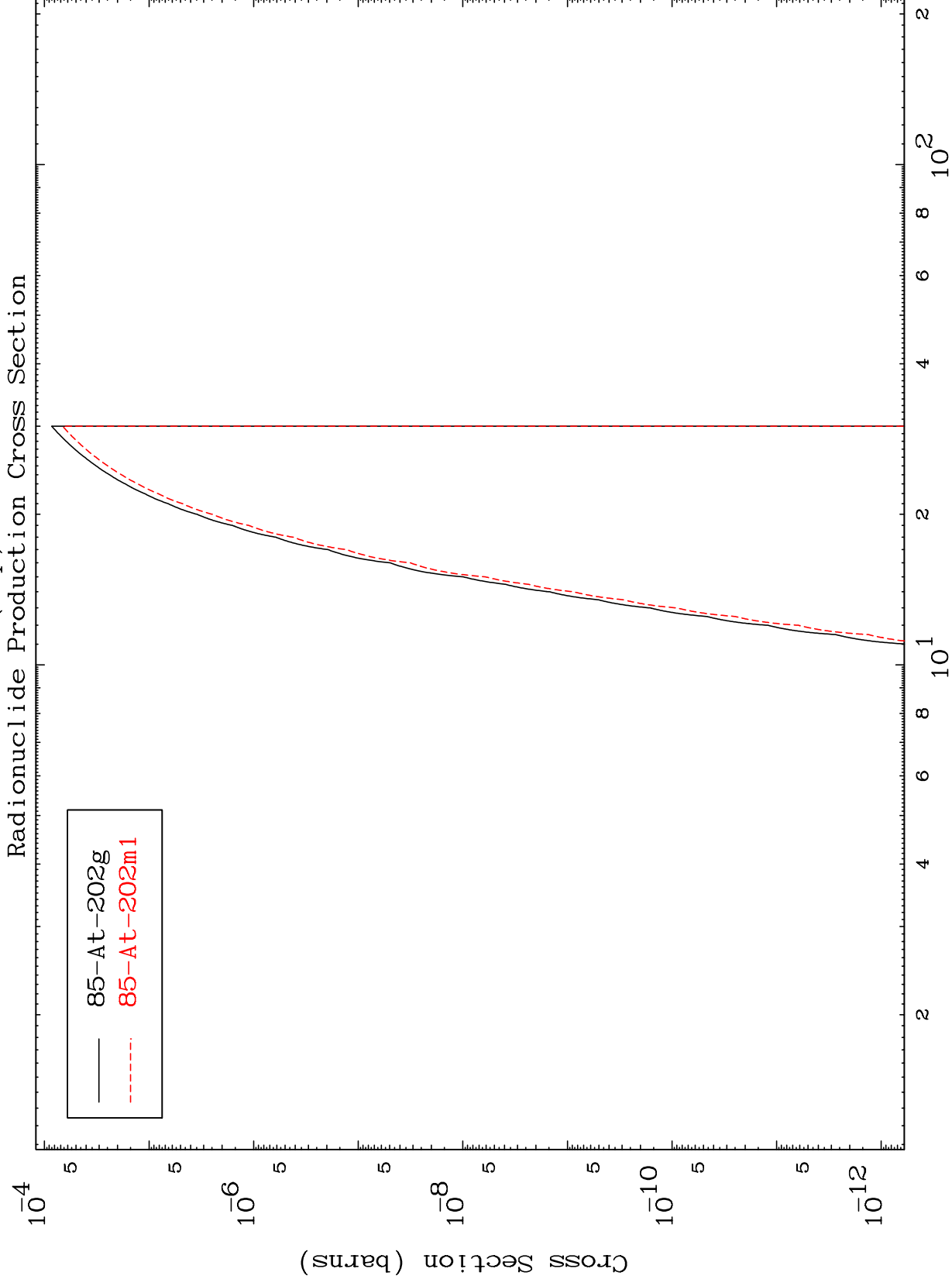
87-Fr-204

MAT 8701

(n,p) d

87-Fr-204

Radionuclide Production Cross Section



114

Incident Energy (MeV)

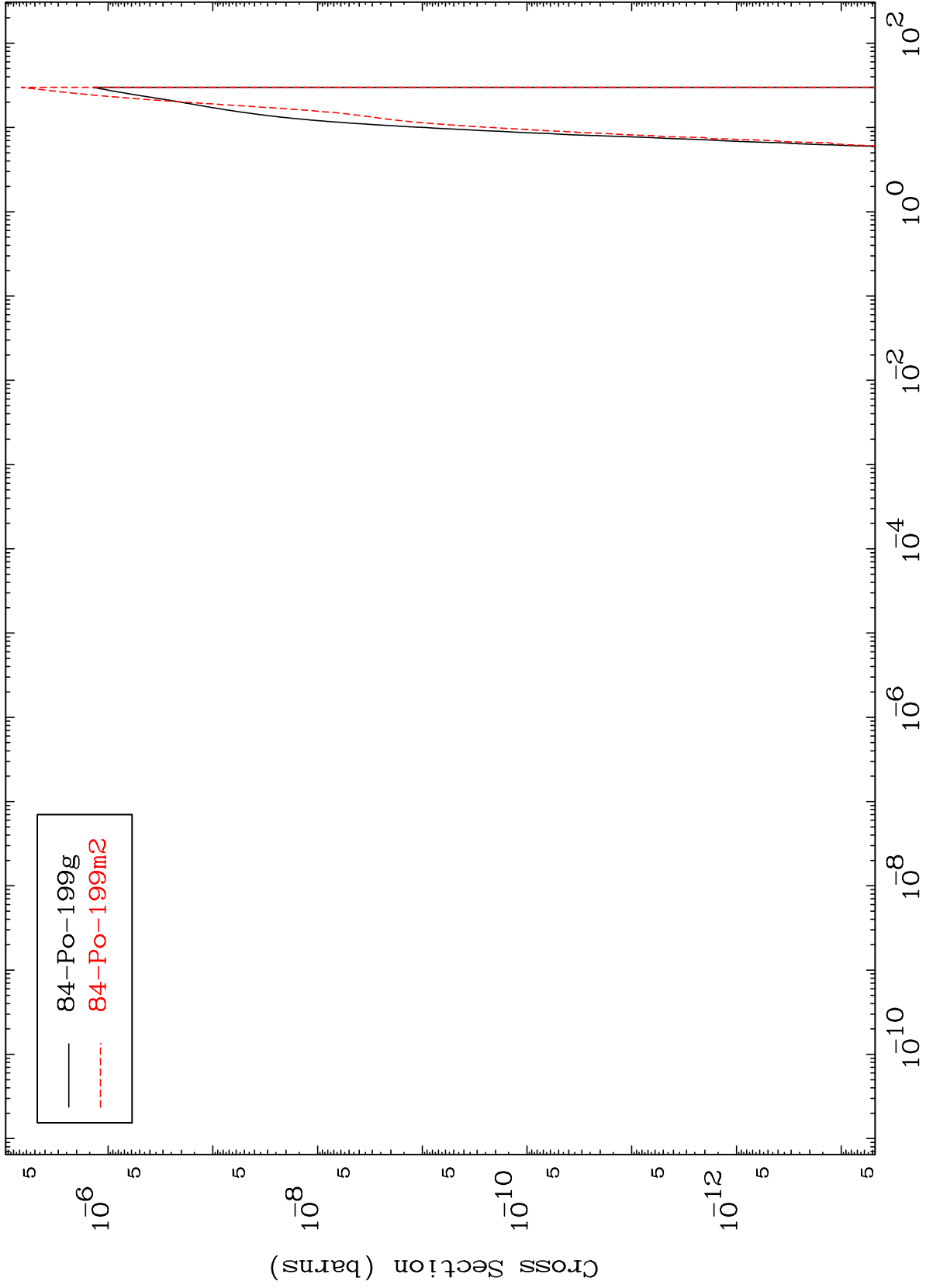
87-Fr-204

MAT 8701

(n,d) α

87-Fr-204

Radionuclide Production Cross Section



115

Incident Energy (MeV)

87-Fr-204