

Program EVALPLOT
(Version 2017-1)

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

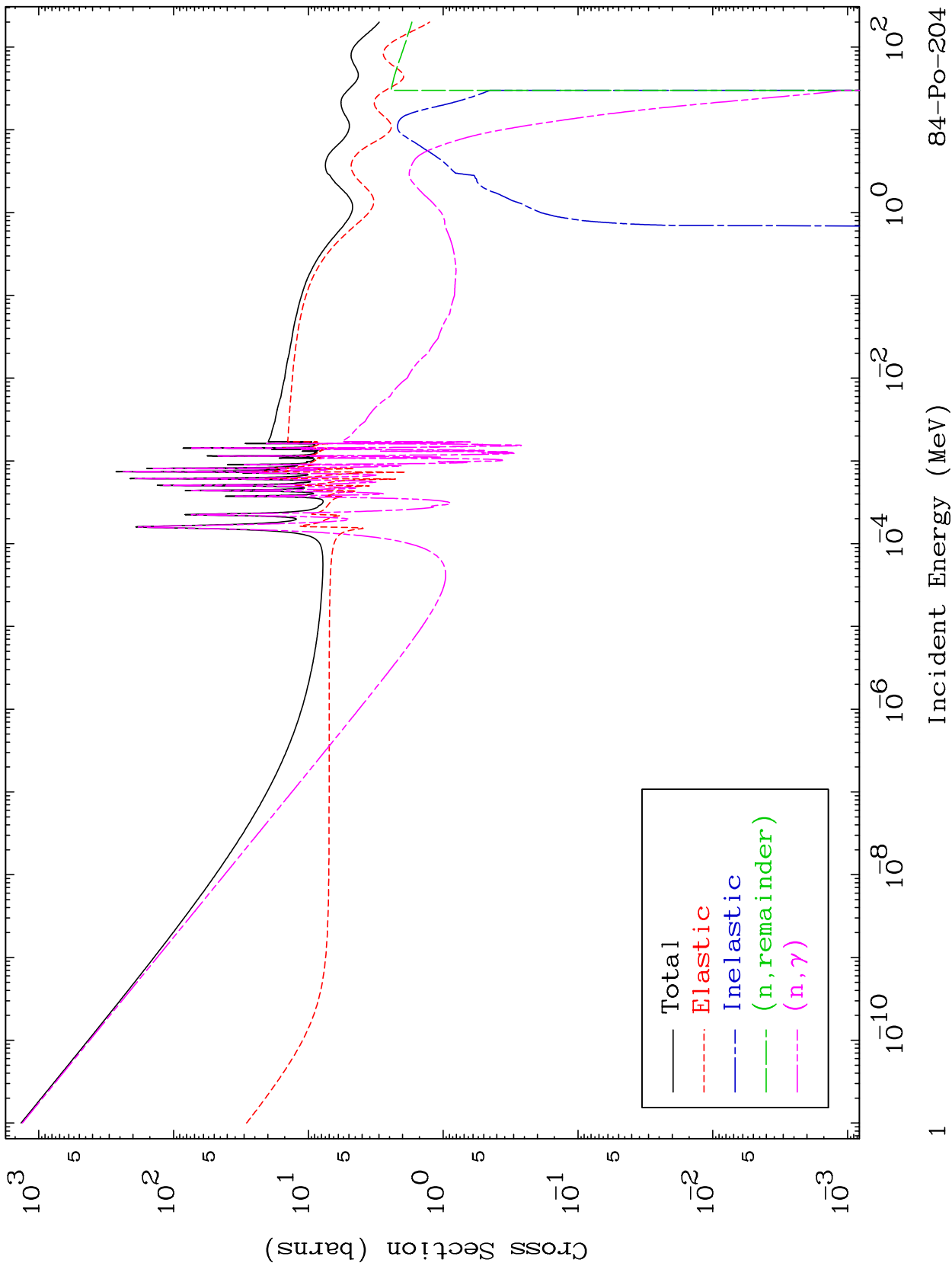
Press Mouse Button to Start

MAT 8419

Major

293 Kelvin Cross Sections

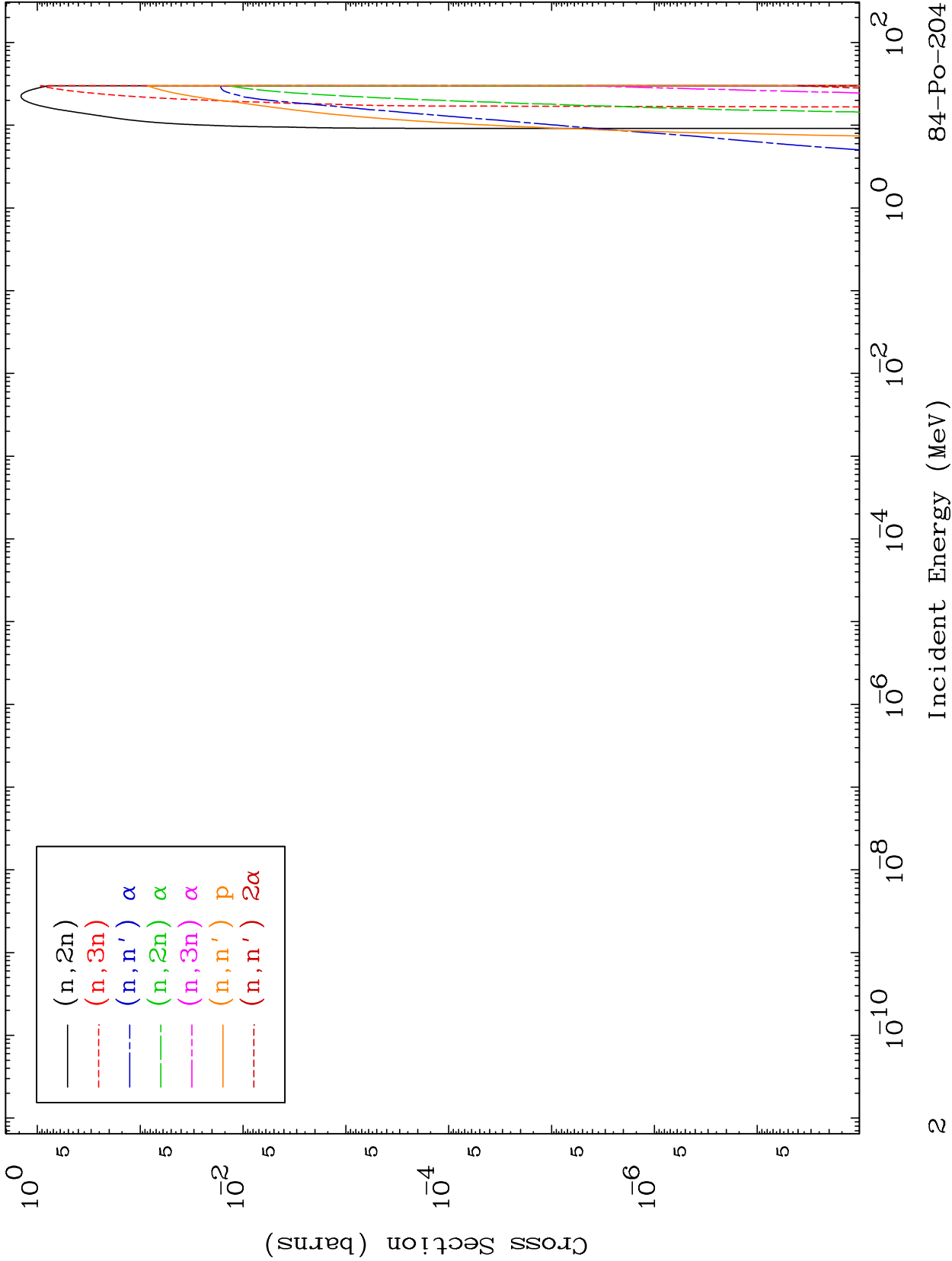
84-Po-204



MAT 8419

Neutron Production
293 Kelvin Cross Sections

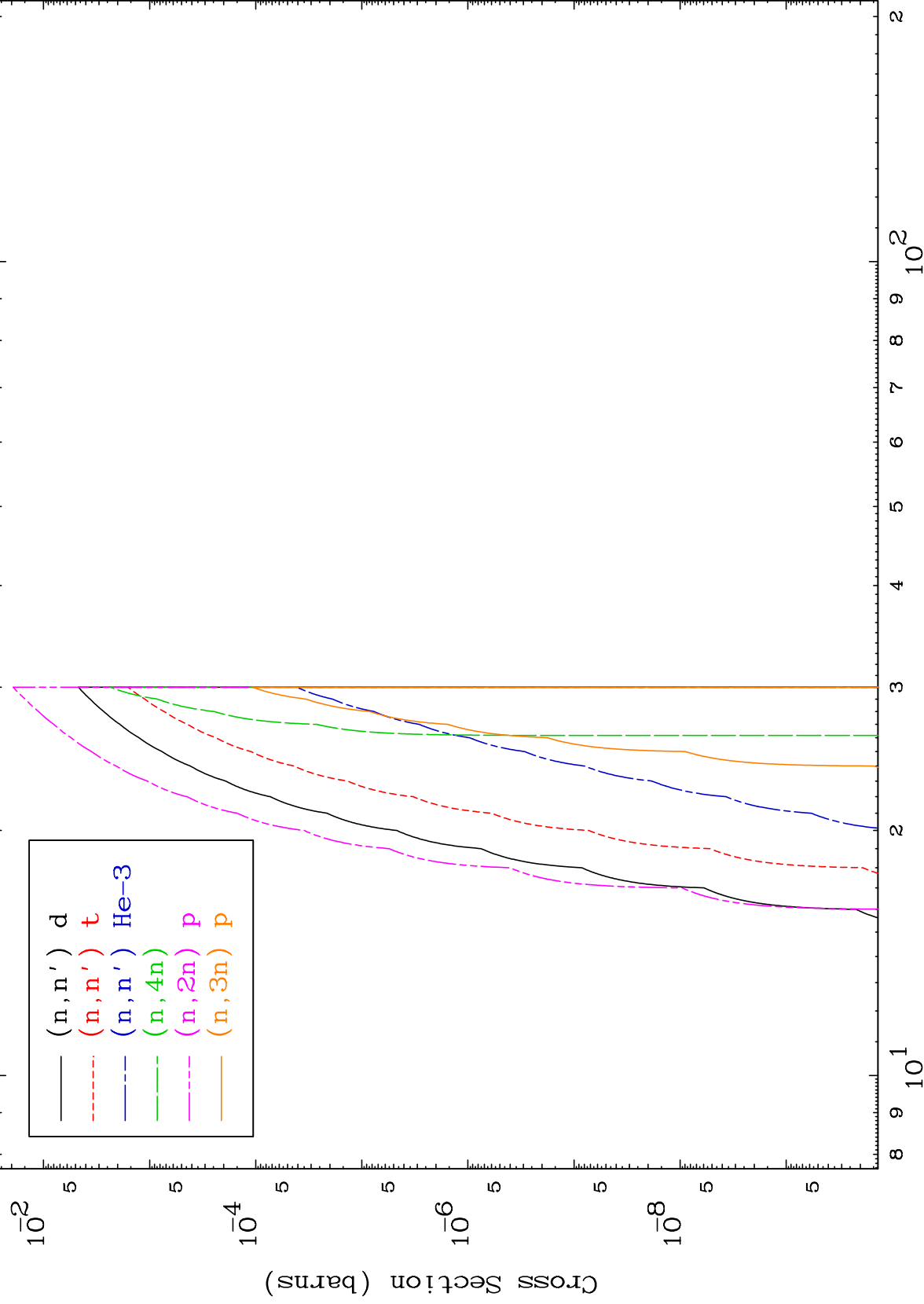
84-Po-204



MAT 8419

Neutron Production
293 Kelvin Cross Sections

84-Po-204



3

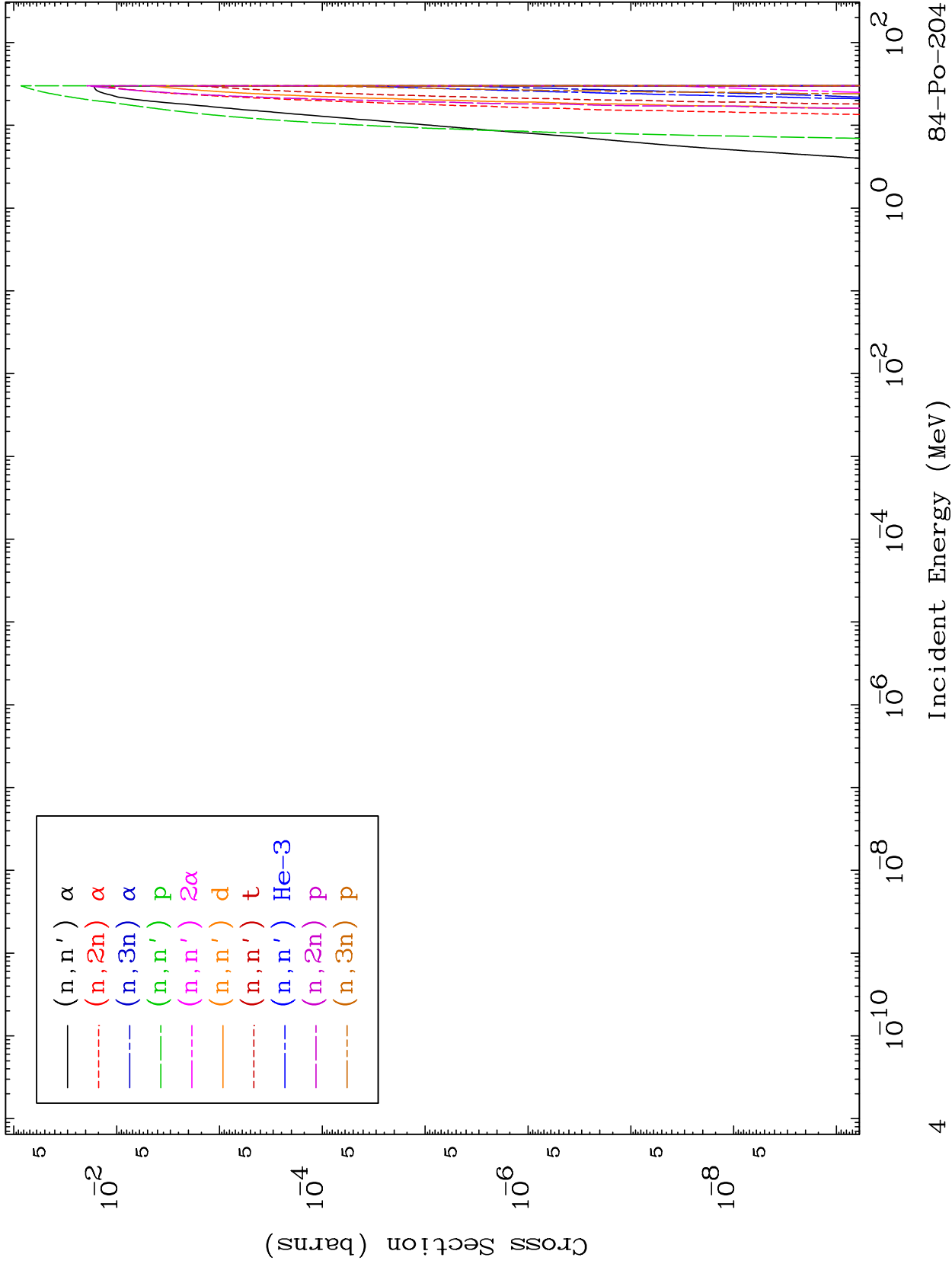
Incident Energy (MeV)

84-Po-204

MAT 8419

Charged Particle
293 Kelvin Cross Sections

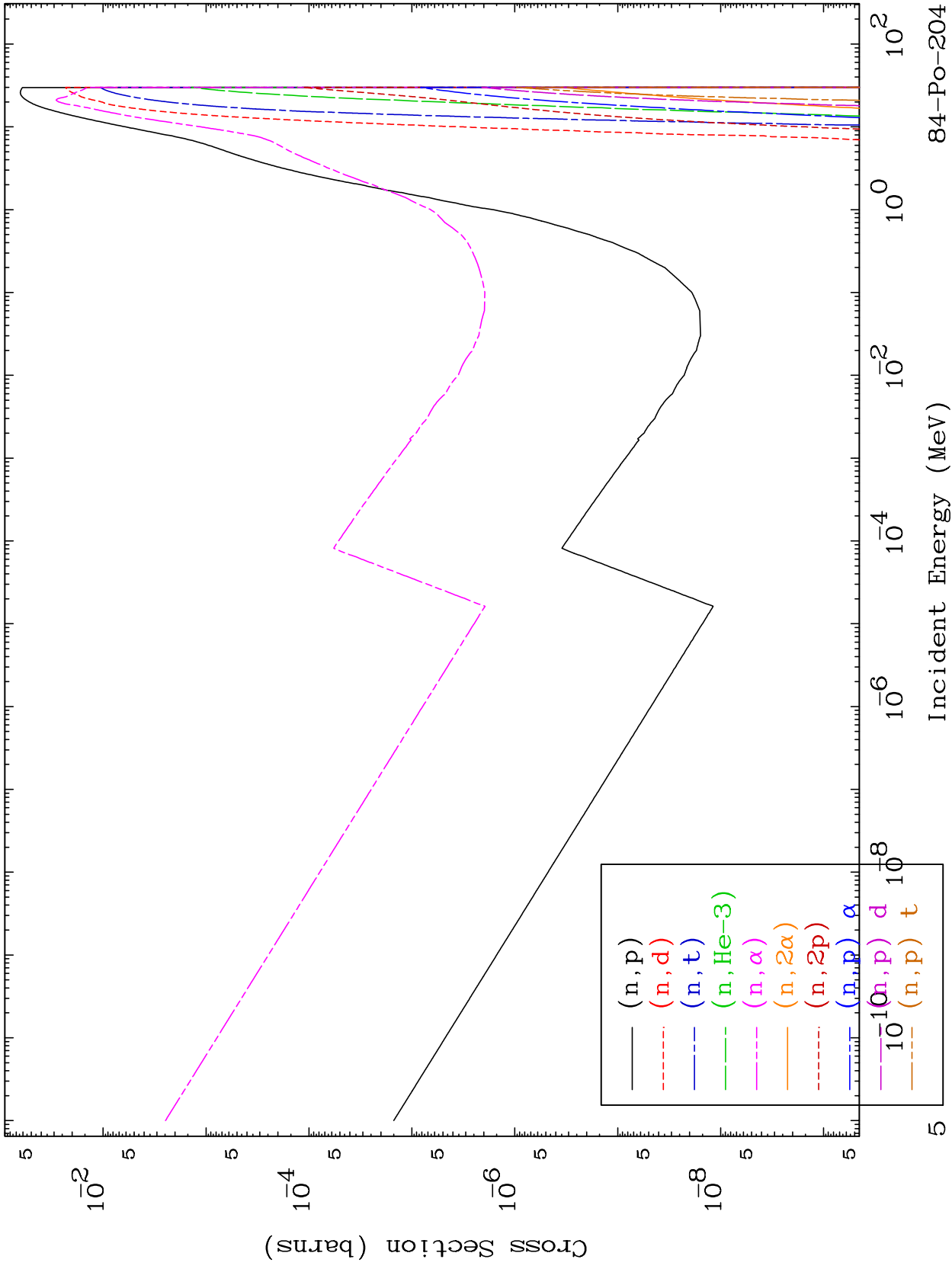
84-Po-204



MAT 8419

Charged Particle
293 Kelvin Cross Sections

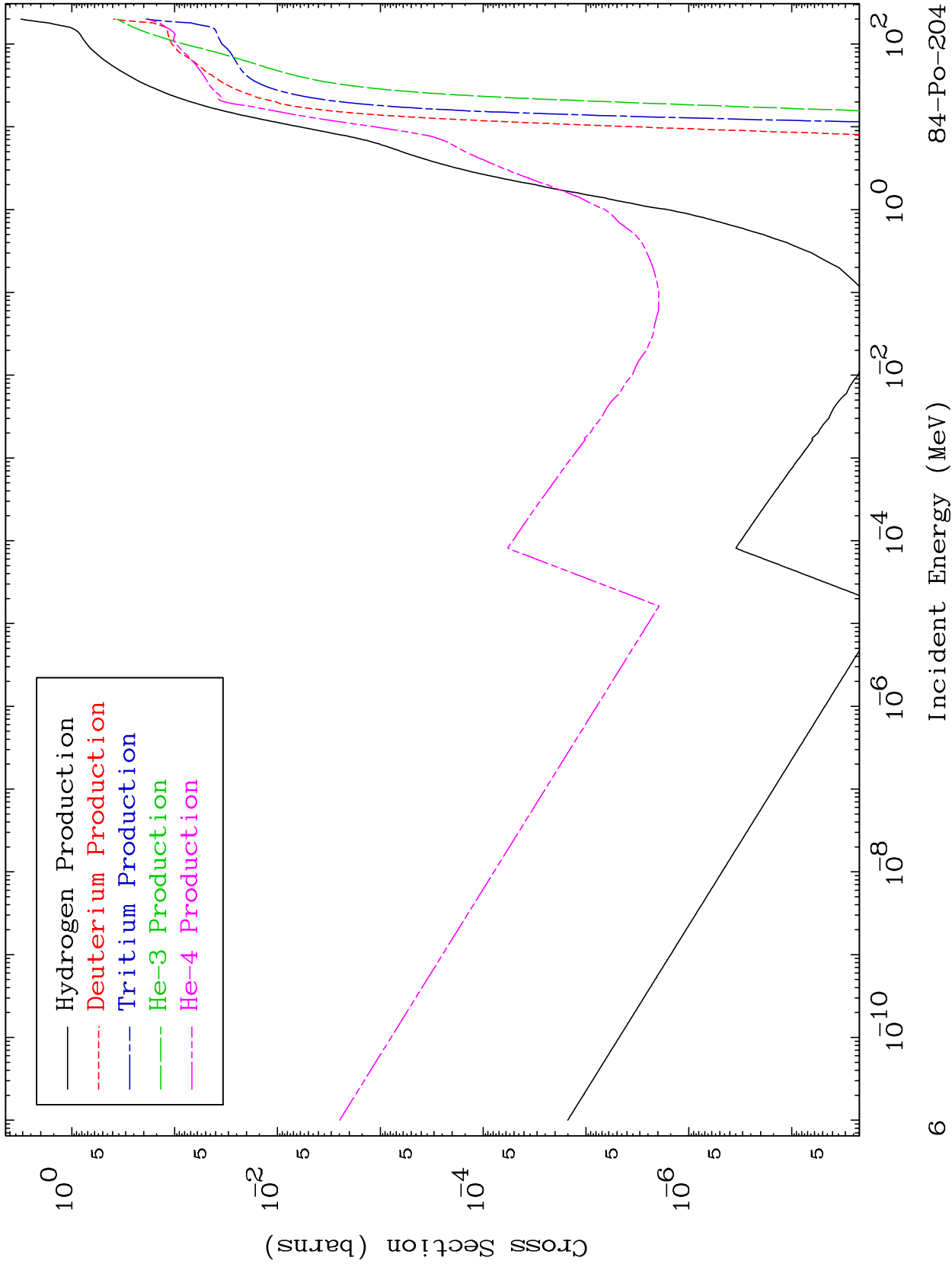
84-Po-204



MAT 8419

Particle Production
293 Kelvin Cross Sections

84-Po-204



MAT 8419

(n,n') Level

84-Po-204

293 Kelvin Cross Sections

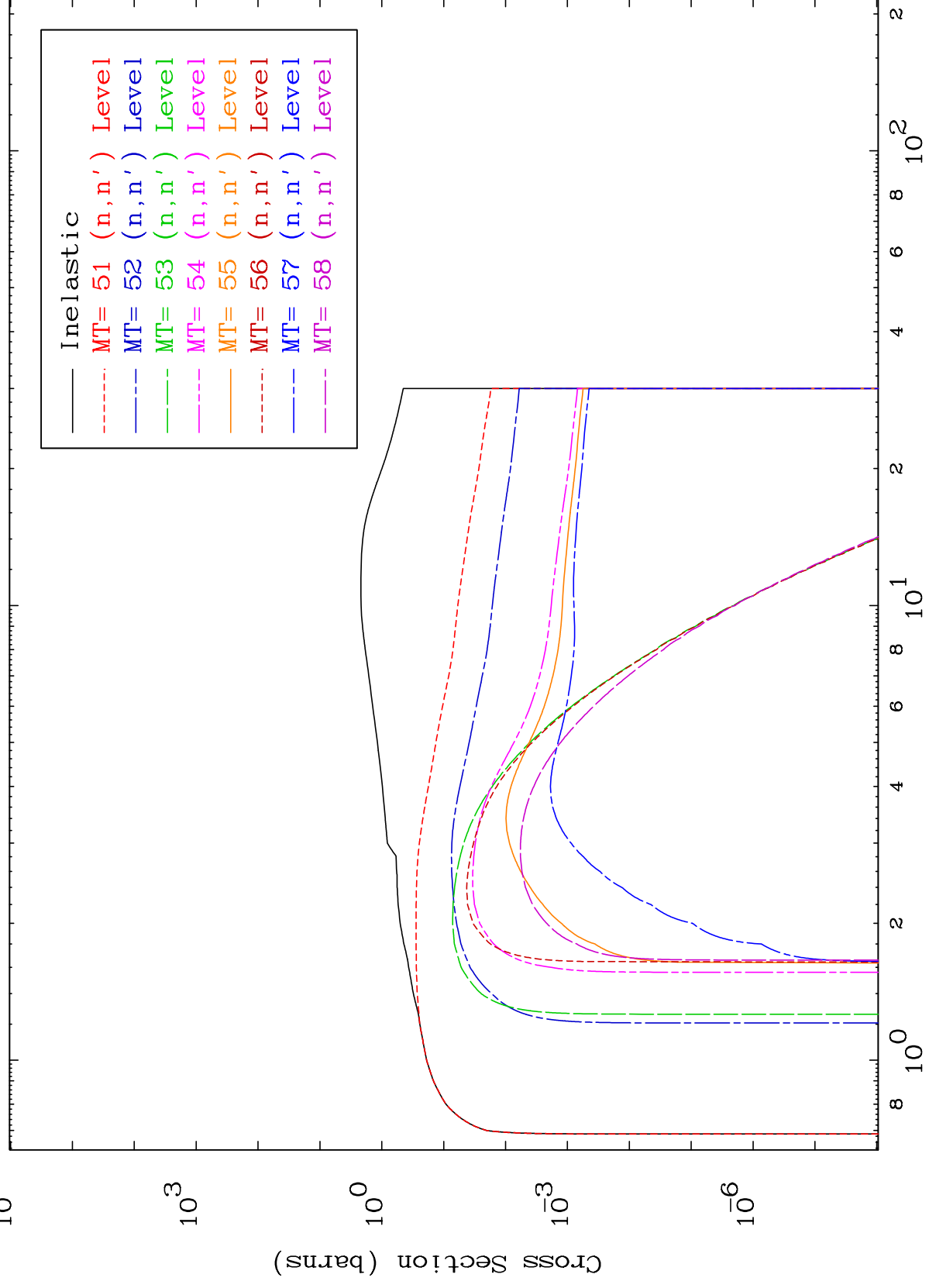
10^6

10^3

10^0

10^{-3}

10^{-6}



7

Incident Energy (MeV)

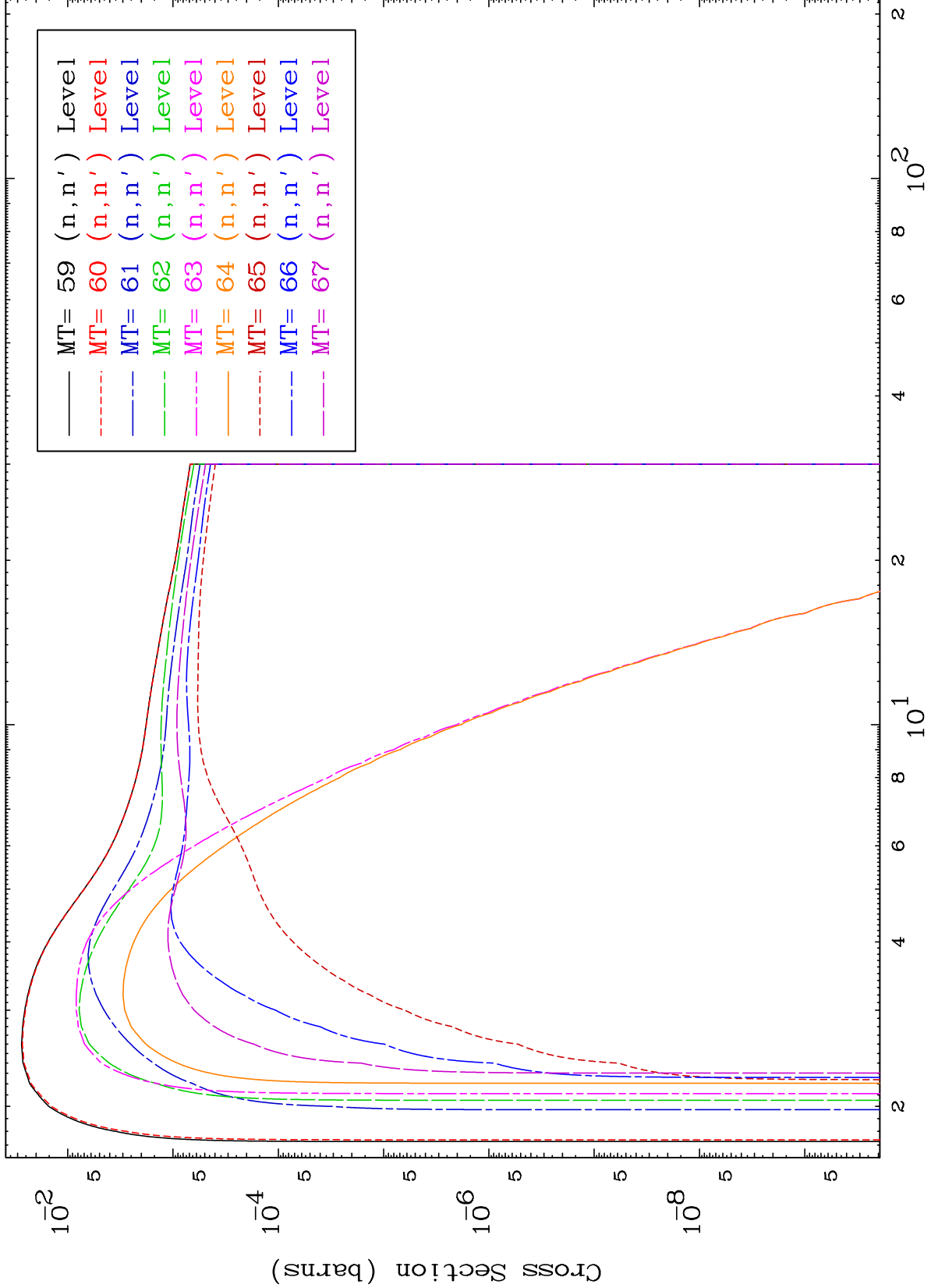
84-Po-204

MAT 8419

(n,n') Level

84-Po-204

293 Kelvin Cross Sections

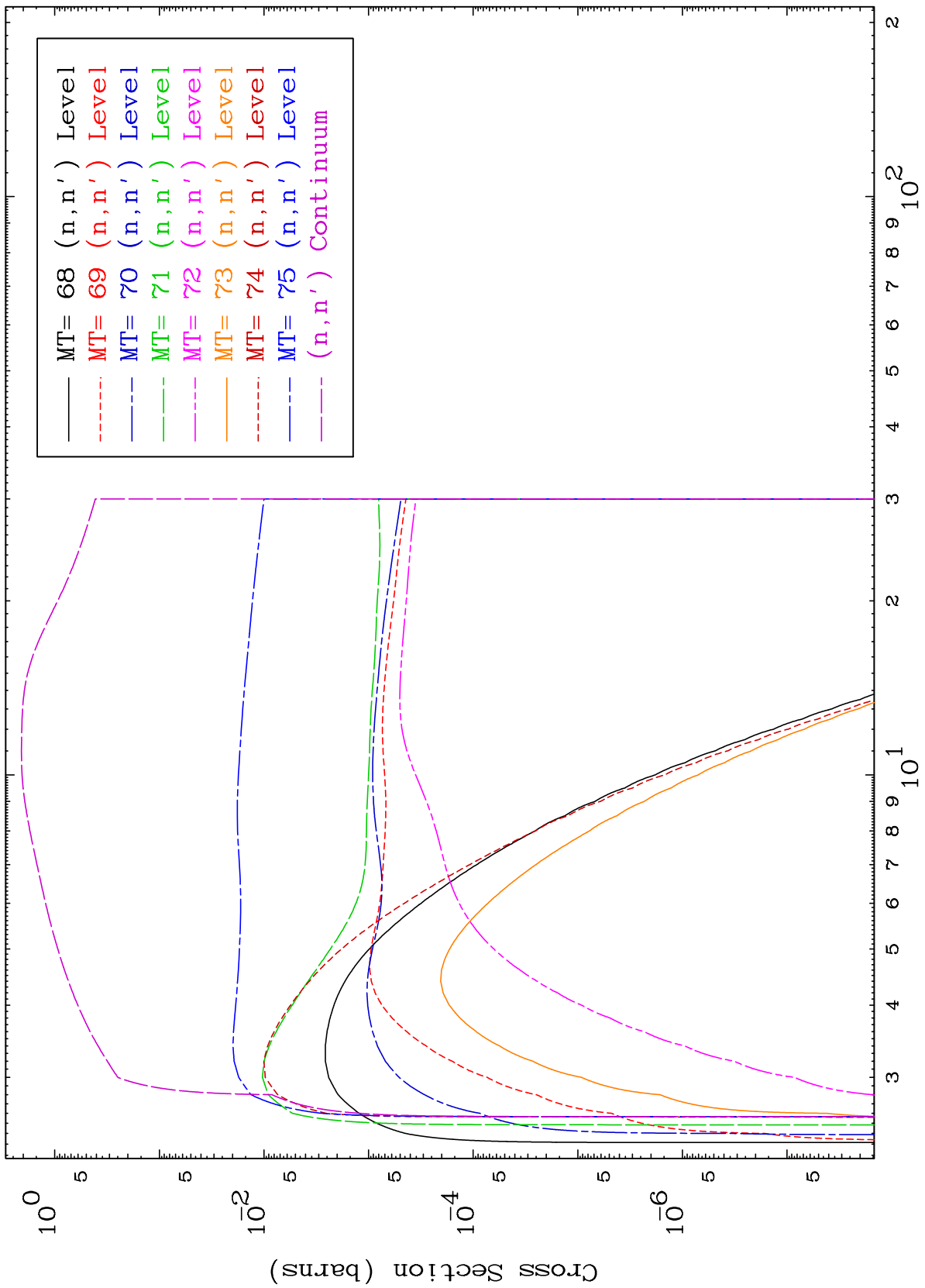


8

Incident Energy (MeV)

84-Po-204

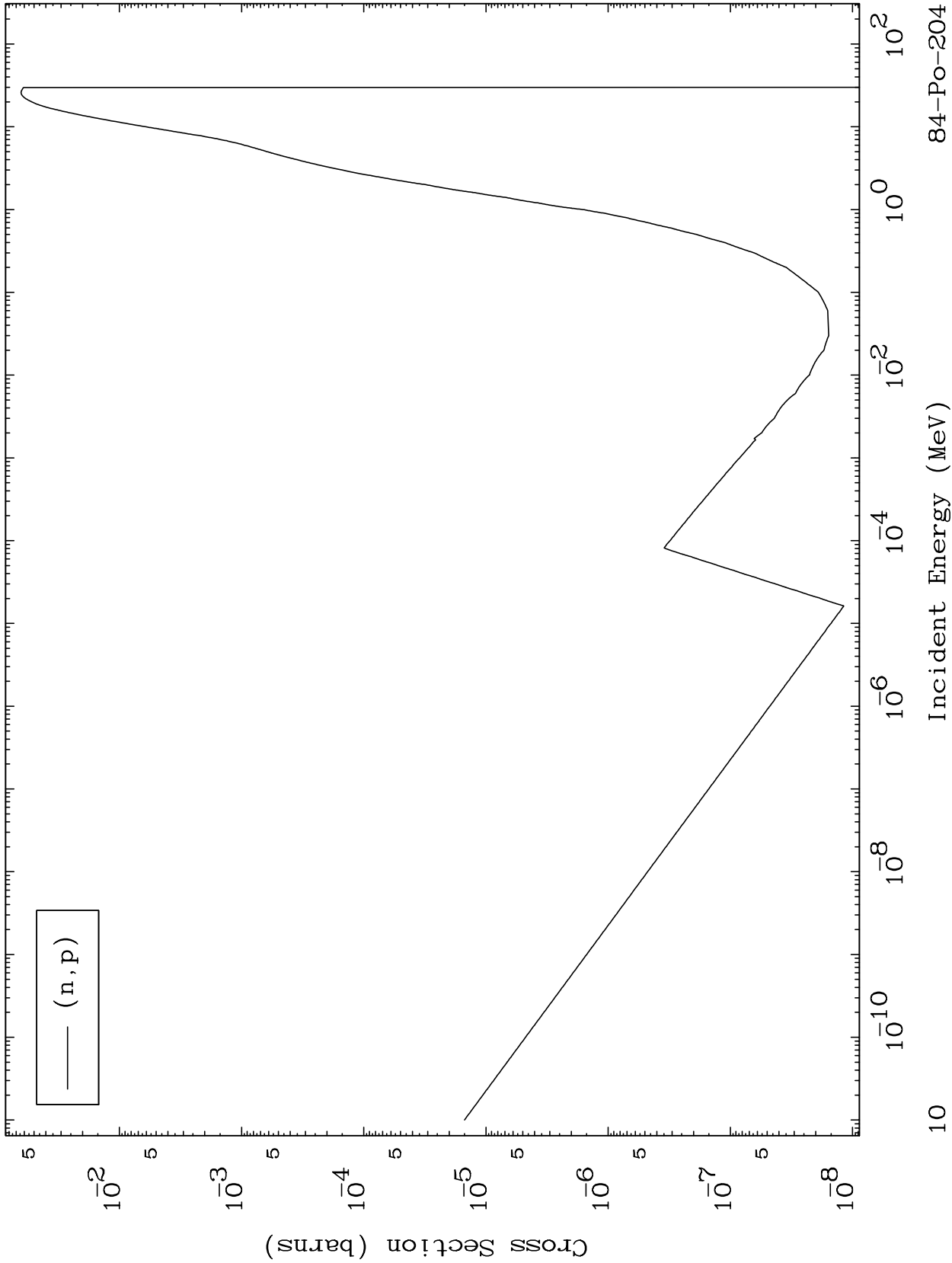
293 Kelvin Cross Sections



MAT 8419

(n,p) Levels
293 Kelvin Cross Sections

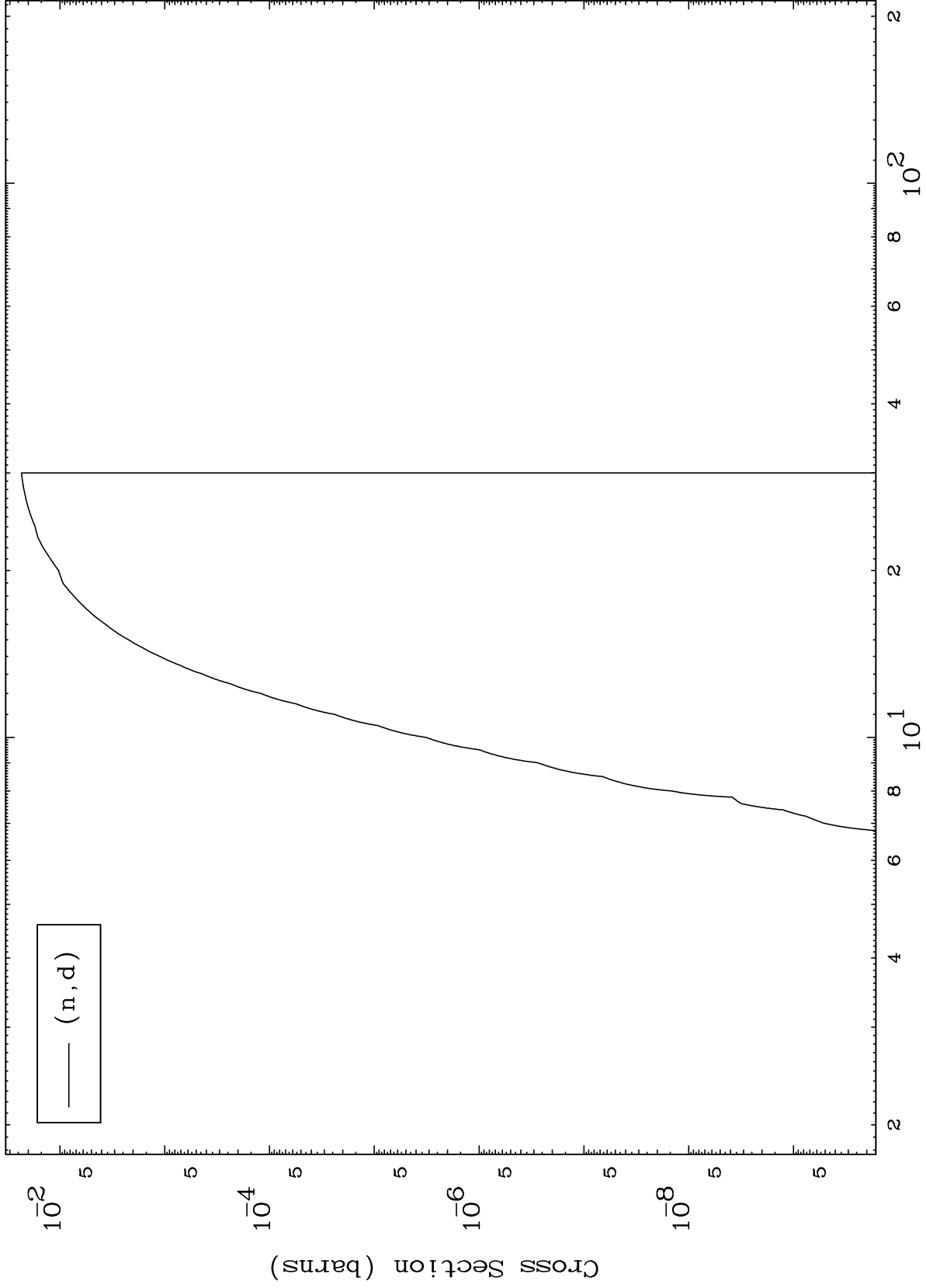
84-Po-204



MAT 8419

(n,d) Levels
293 Kelvin Cross Sections

84-Po-204



11

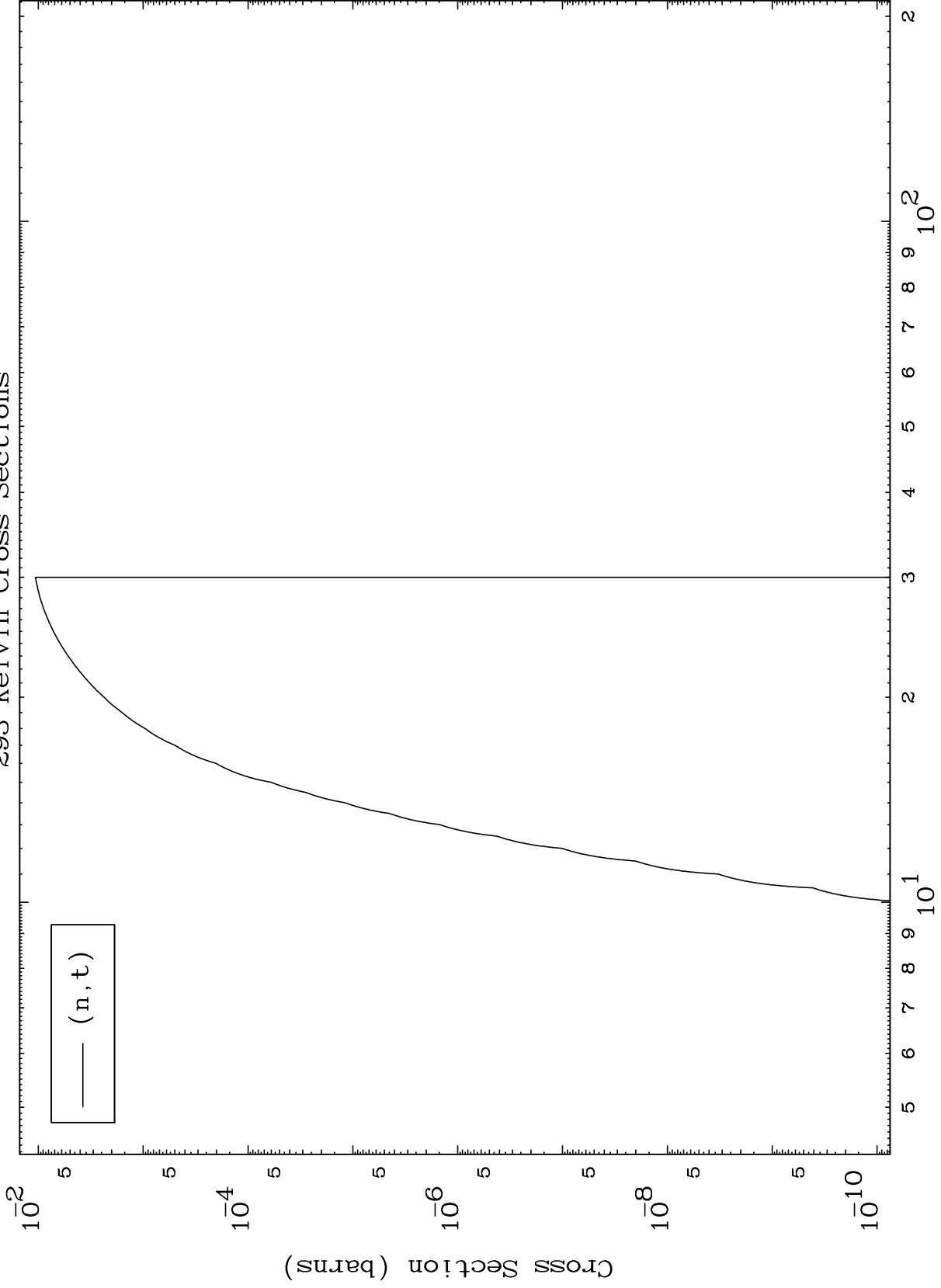
Incident Energy (MeV)

84-Po-204

MAT 8419

(n,t) Levels
293 Kelvin Cross Sections

84-Po-204



12

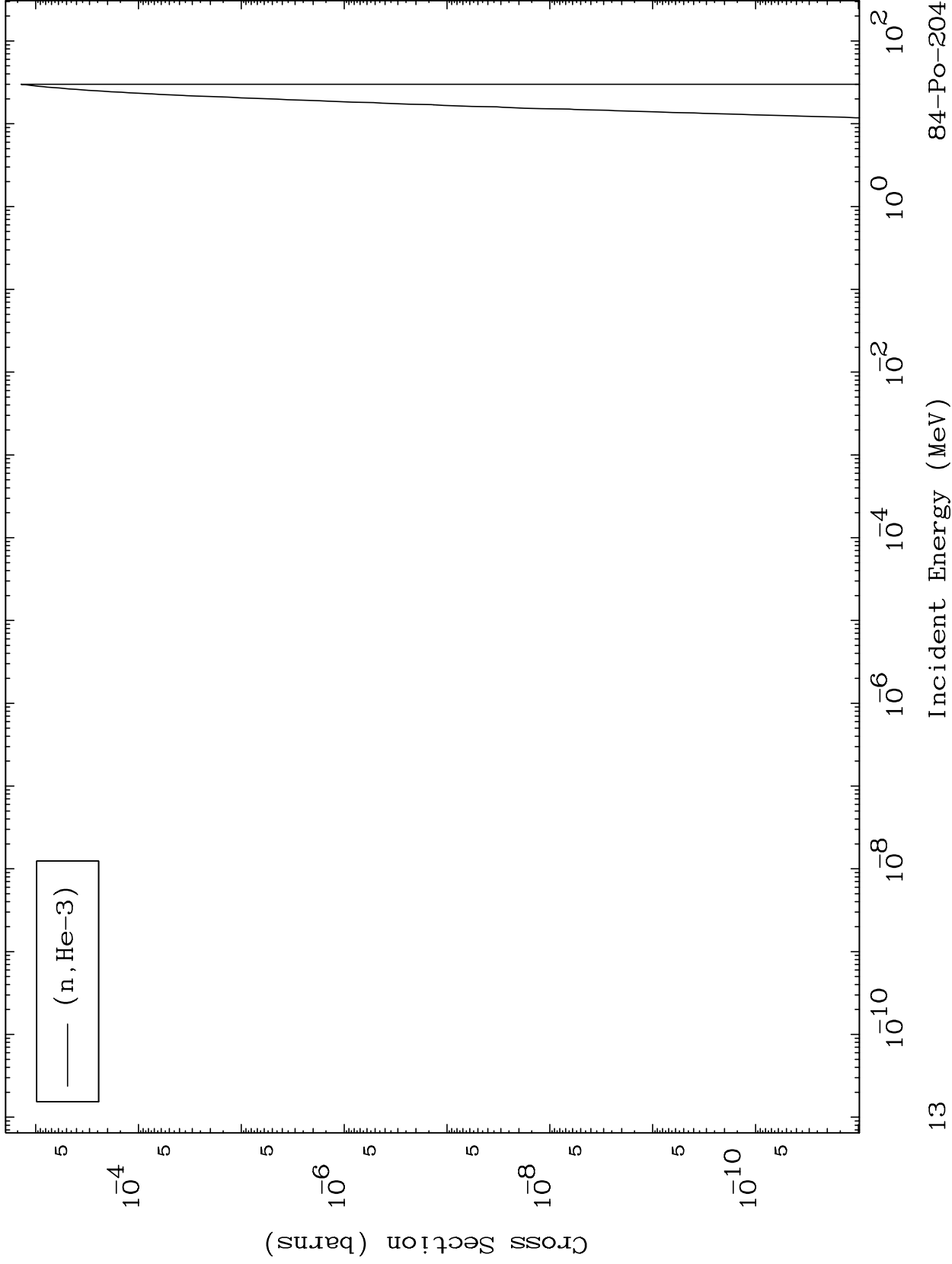
Incident Energy (MeV)

84-Po-204

MAT 8419

(n,He3) Levels
293 Kelvin Cross Sections

84-Po-204

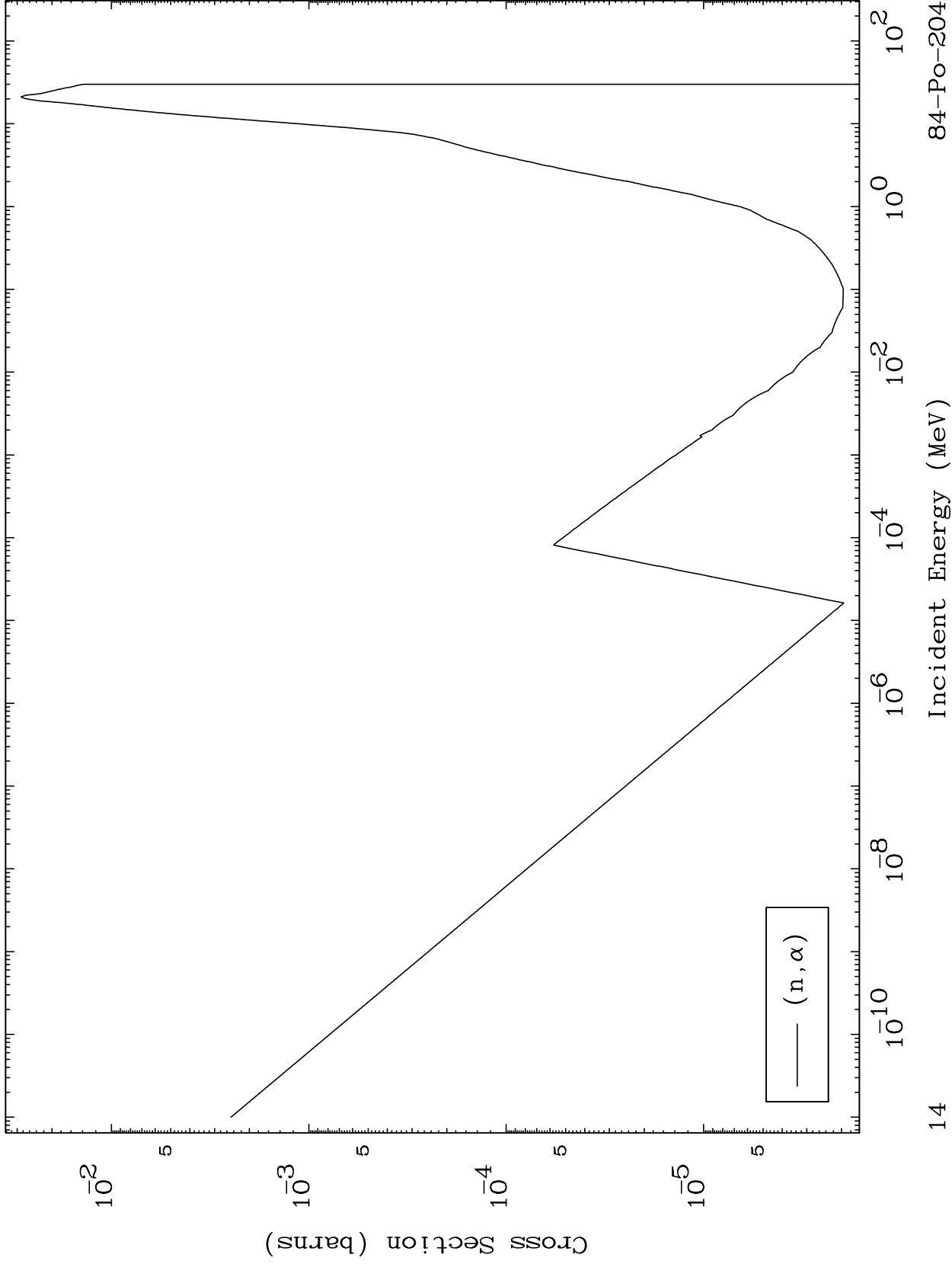


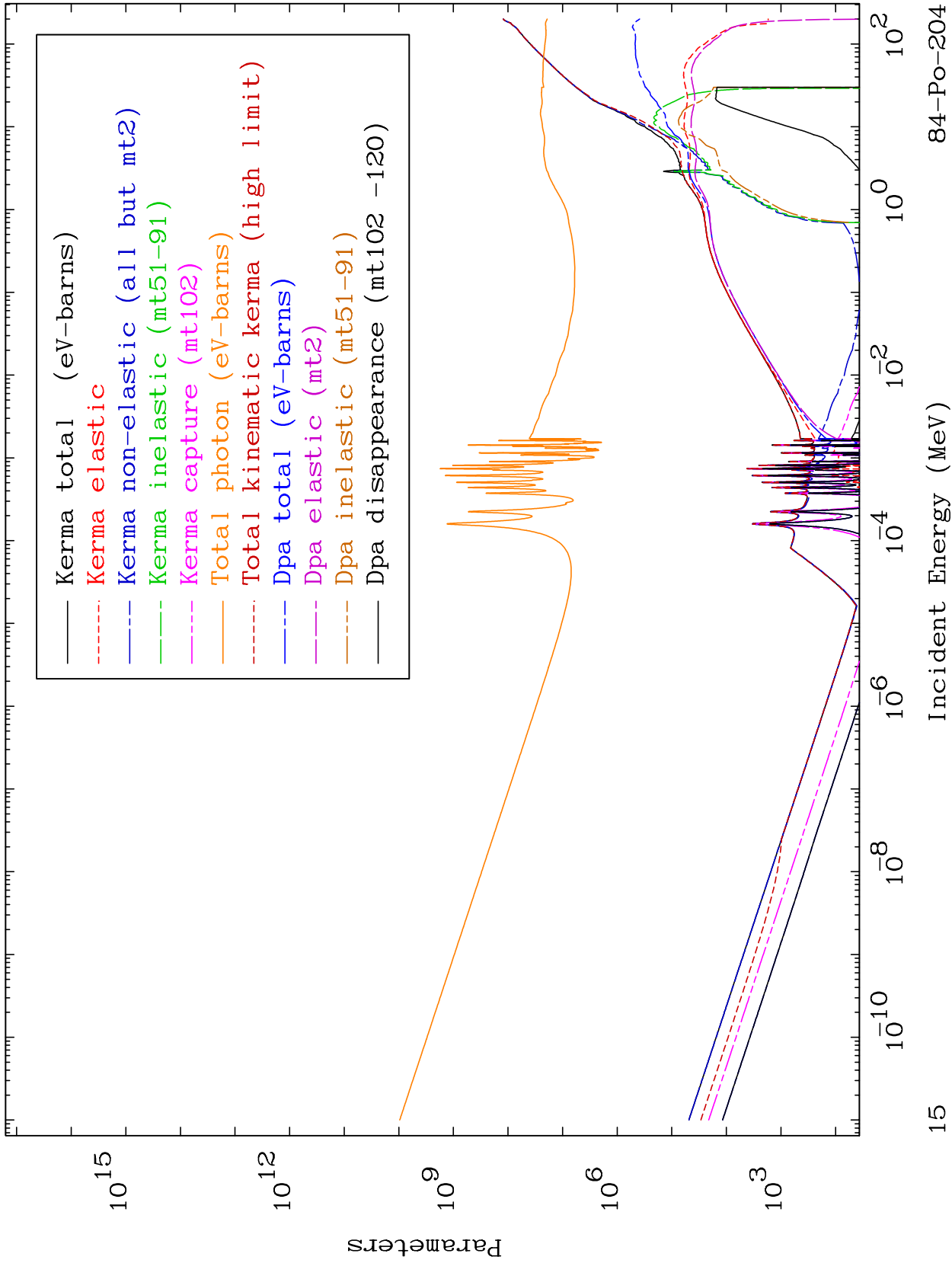
13

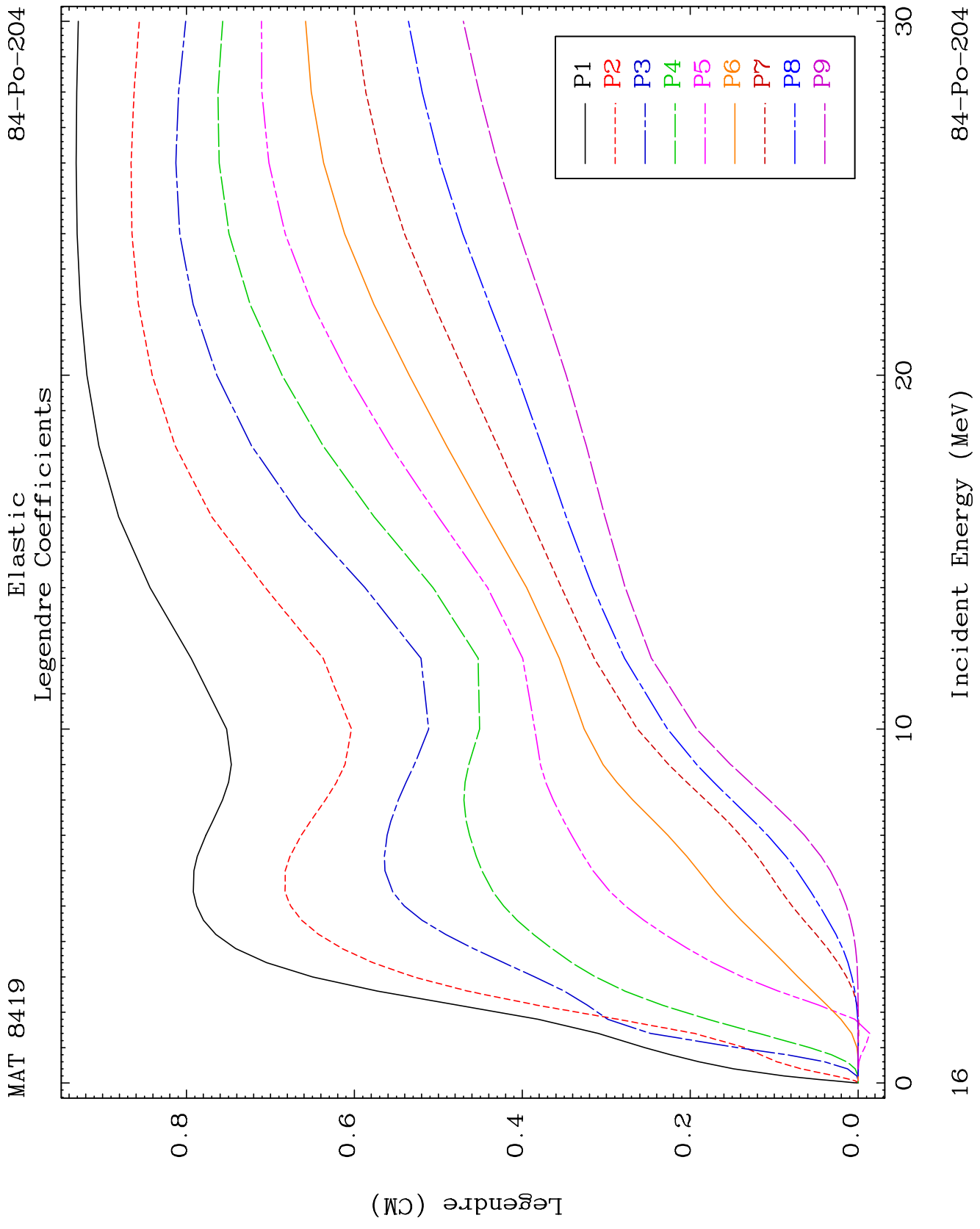
MAT 8419

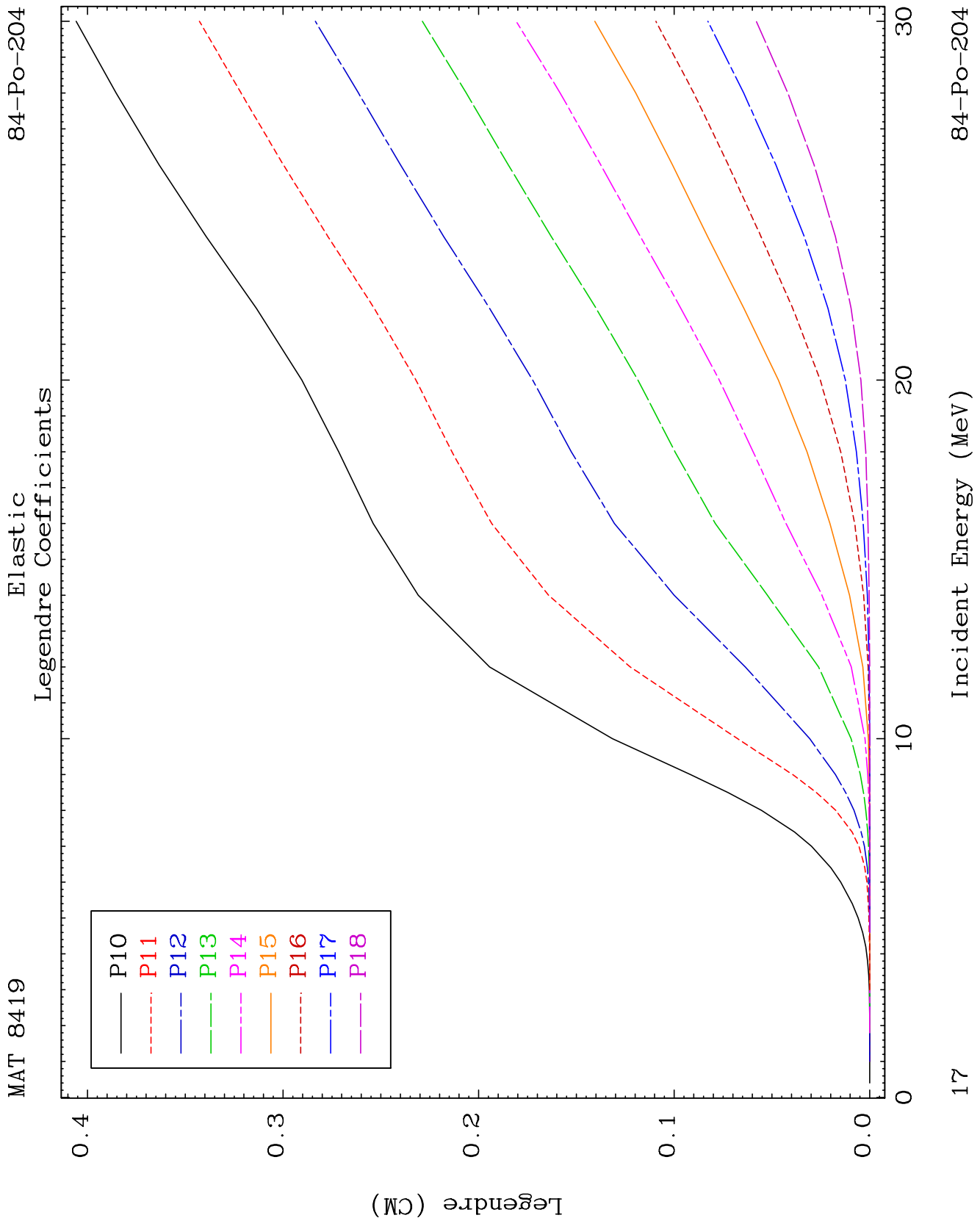
(n,α) Levels
293 Kelvin Cross Sections

84-Po-204





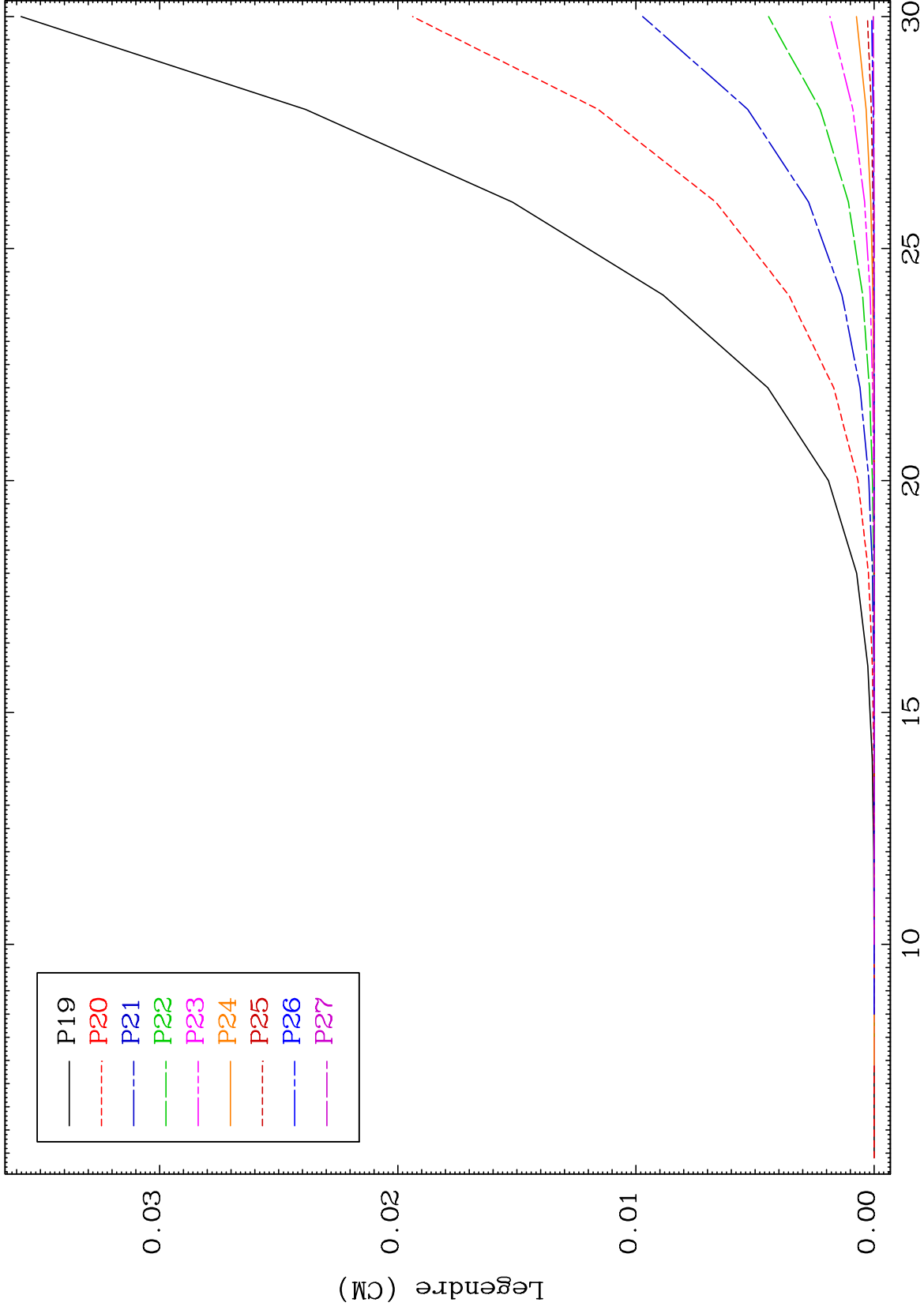




MAT 8419

Elastic
Legendre Coefficients

84-Po-204



18

Incident Energy (MeV)

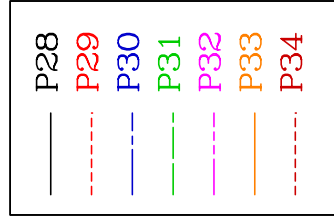
84-Po-204

Legendre (CM)

MAT 8419

Elastic
Legendre Coefficients

84-Po-204



$\times 10^{-5}$

1.2

1.0

Legendre (CM)

0.8

0.6

0.4

0.2

0.0

15

20

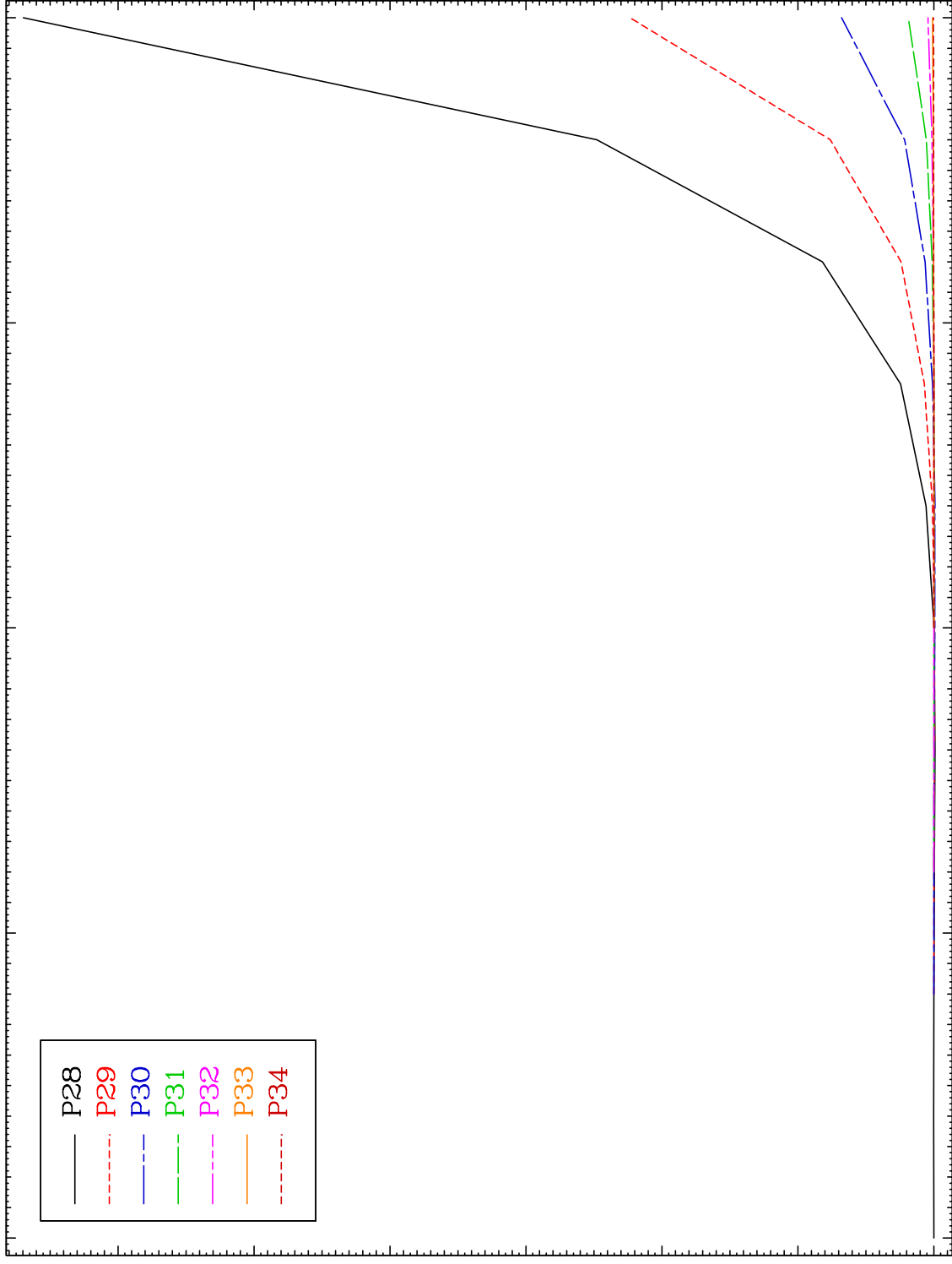
25

30

19

Incident Energy (MeV)

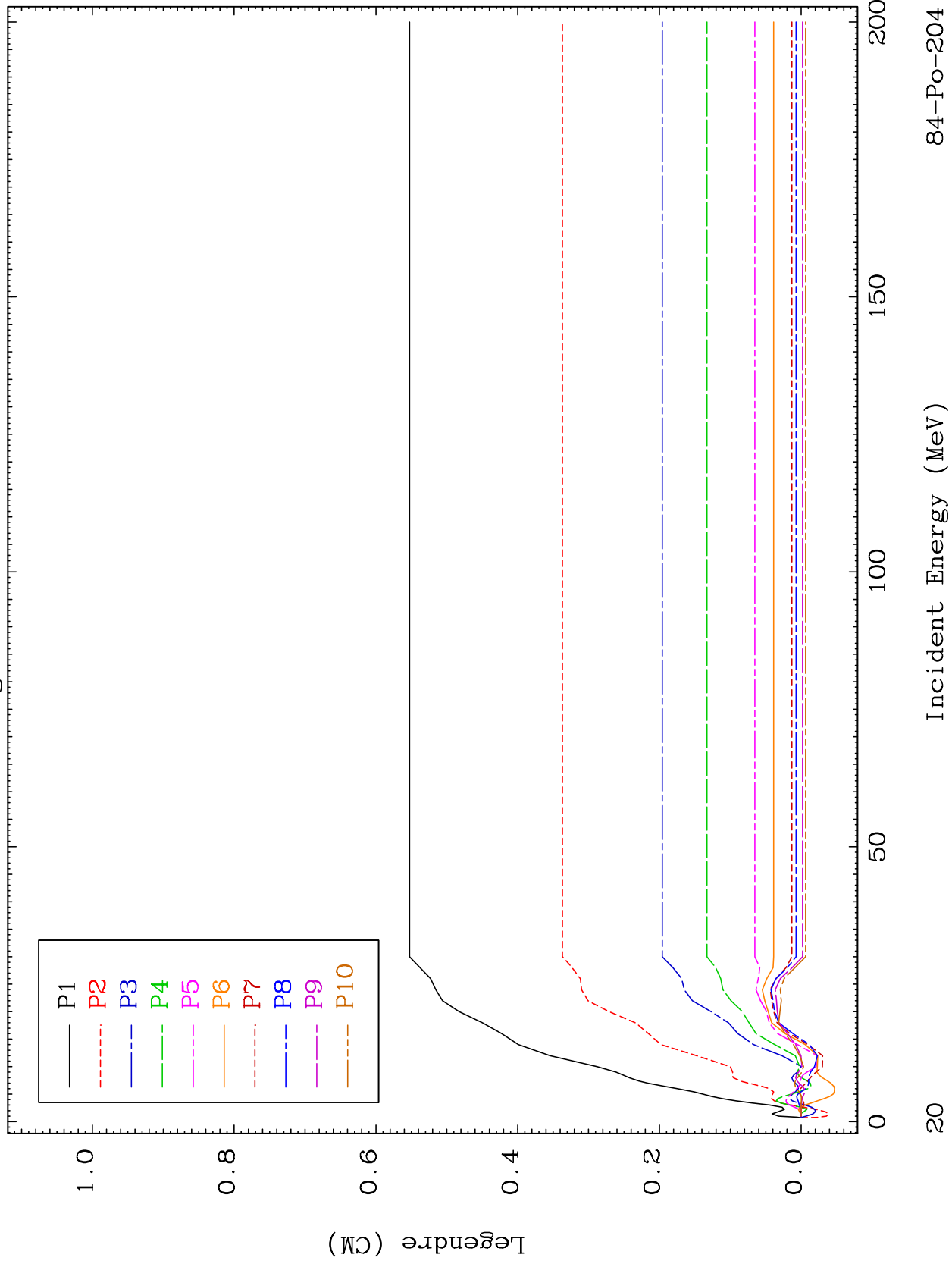
84-Po-204



MAT 8419

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

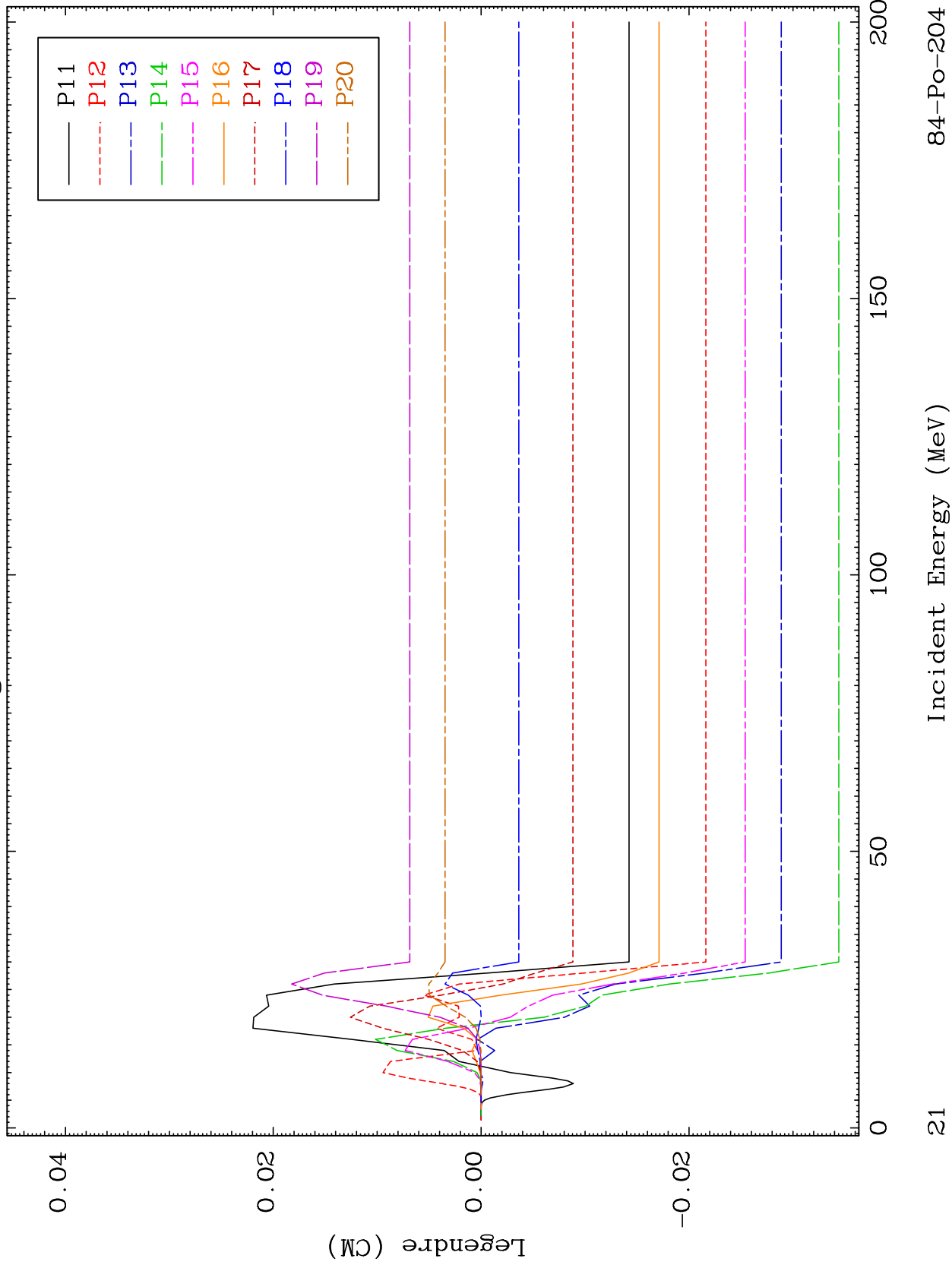
84-Po-204



MAT 8419

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

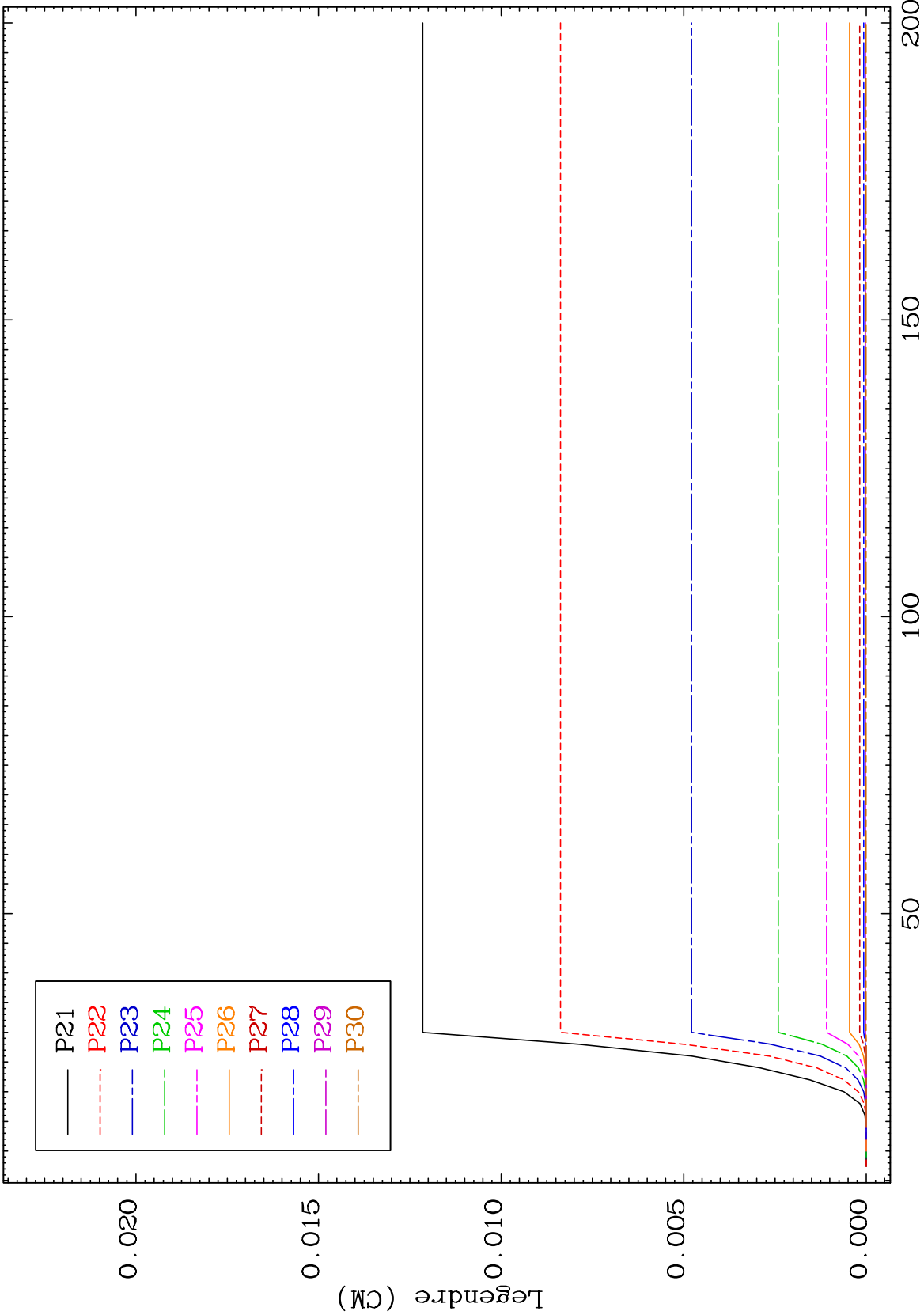
84-Po-204



21

Incident Energy (MeV)

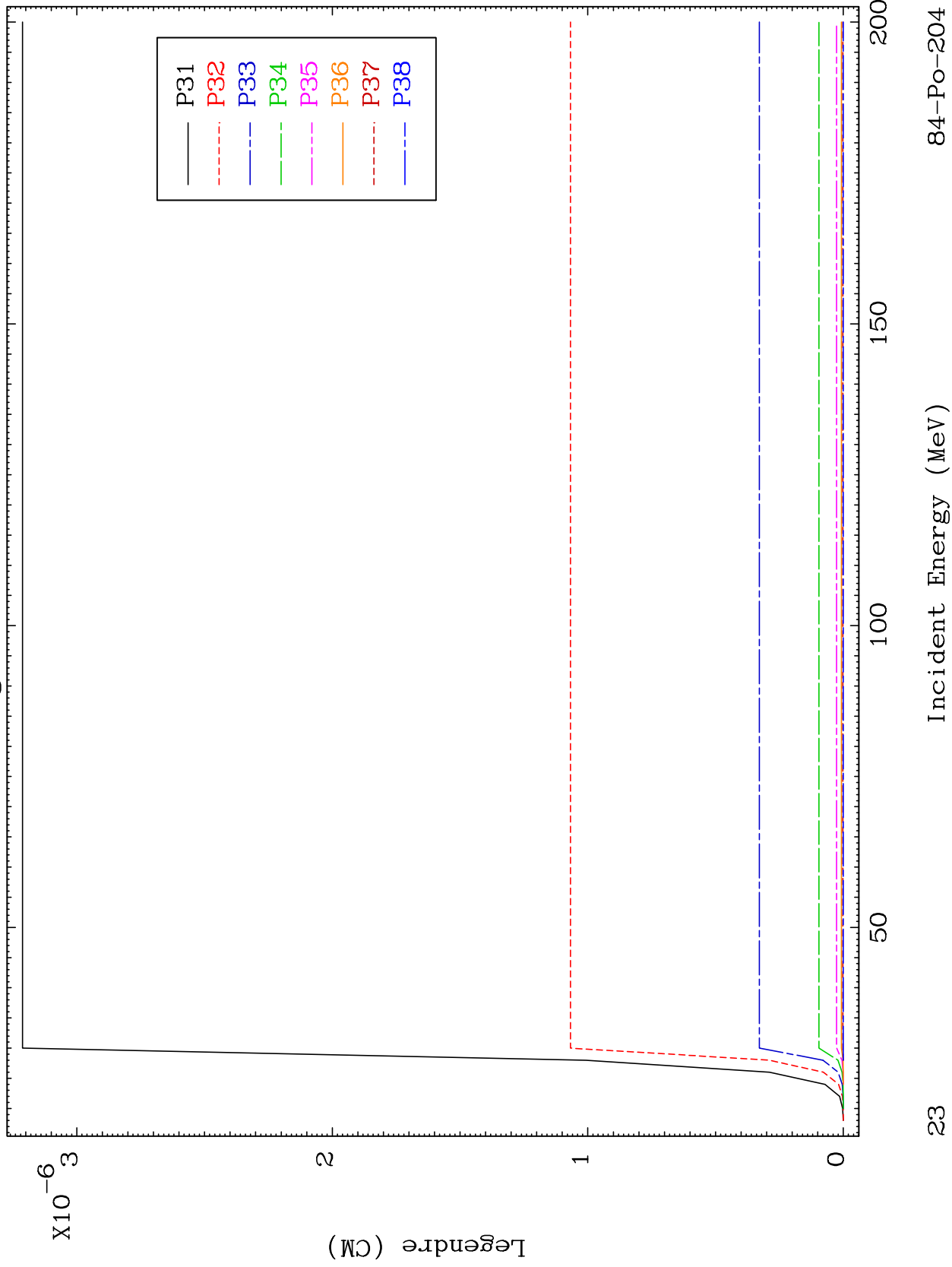
84-Po-204



MAT 8419

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

84-Po-204



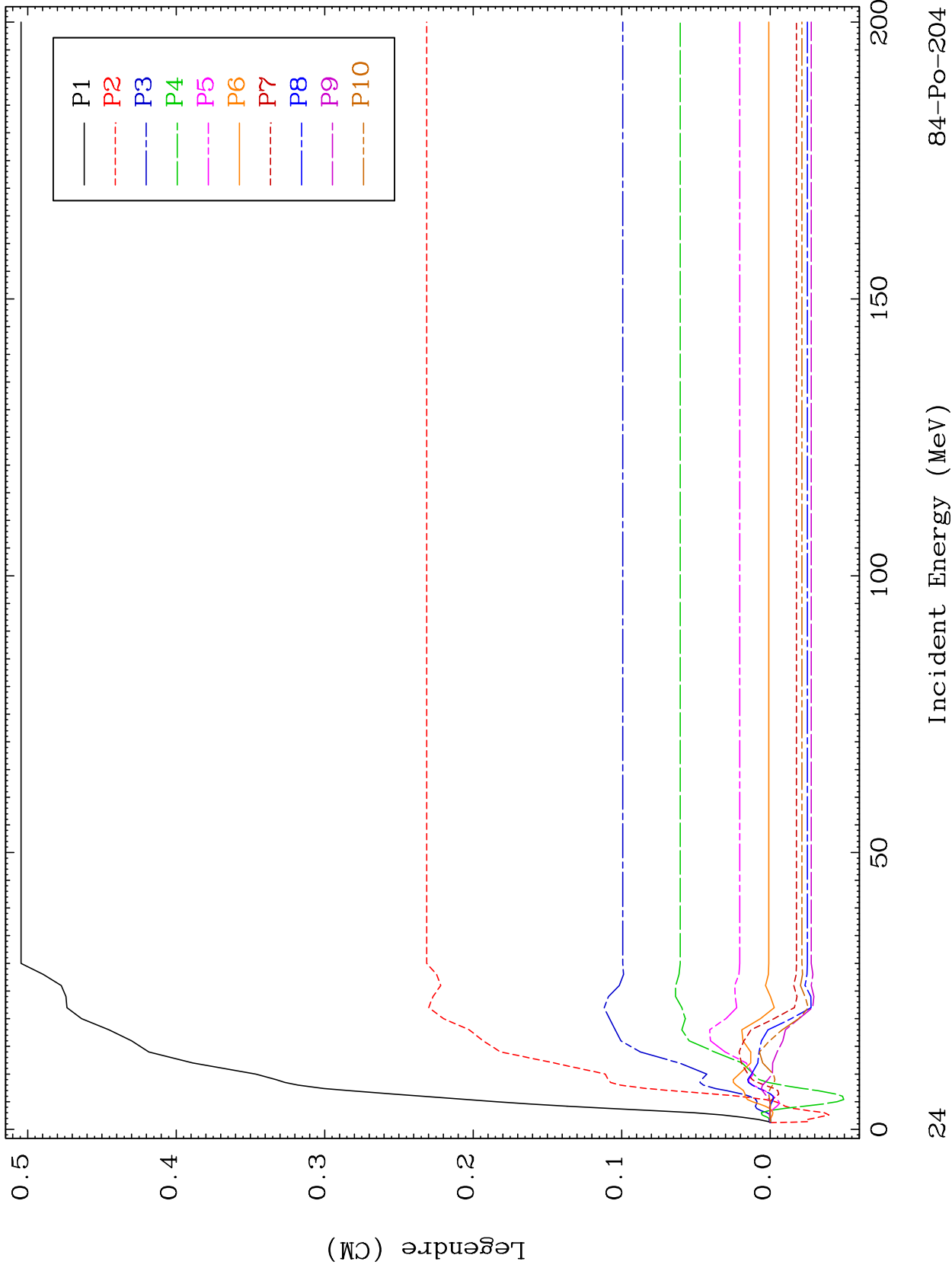
23

84-Po-204

MAT 8419

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

84-Po-204



84-Po-204

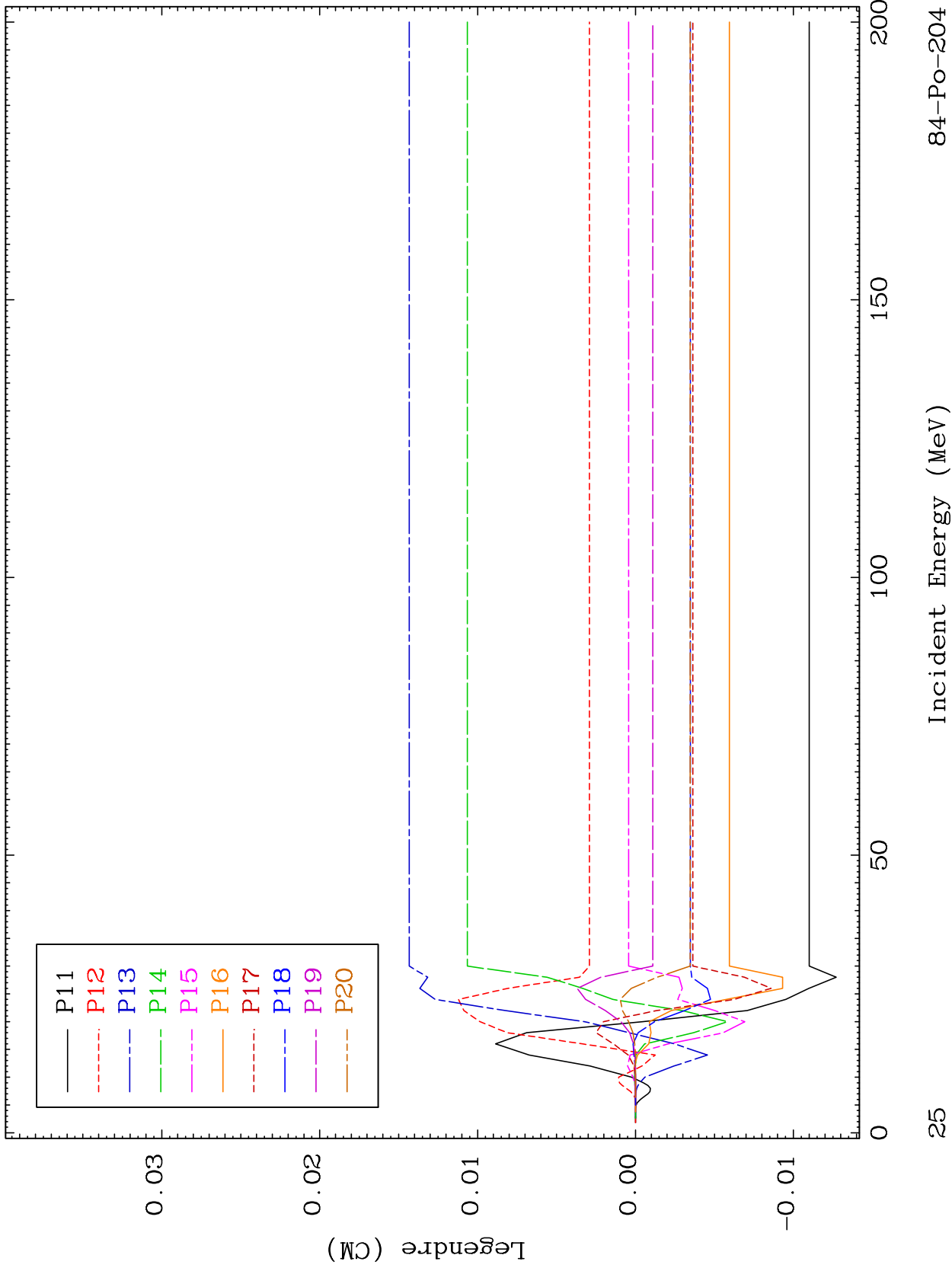
Incident Energy (MeV)

24

MAT 8419

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

84-Po-204



84-Po-204

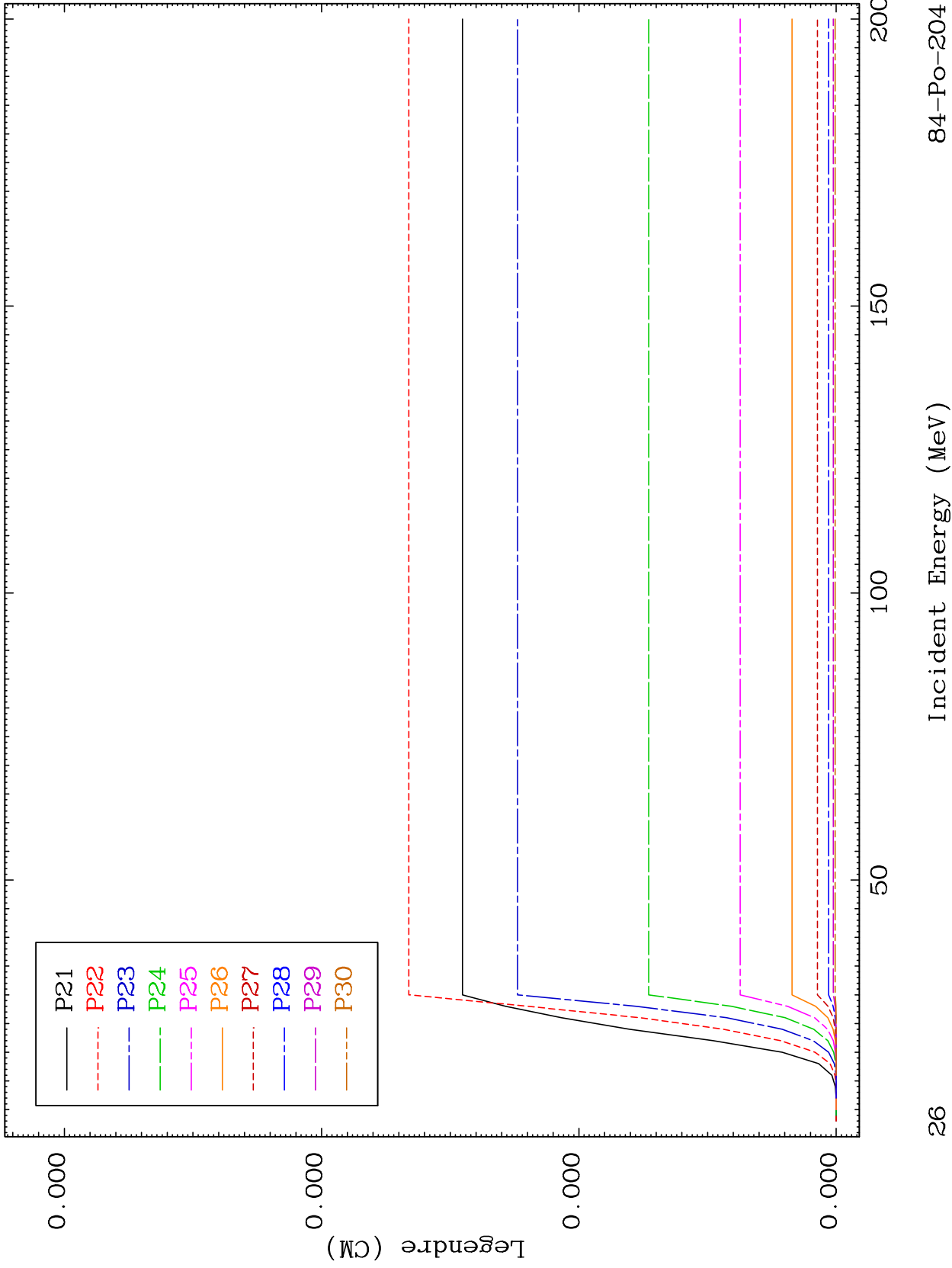
Incident Energy (MeV)

25

MAT 8419

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

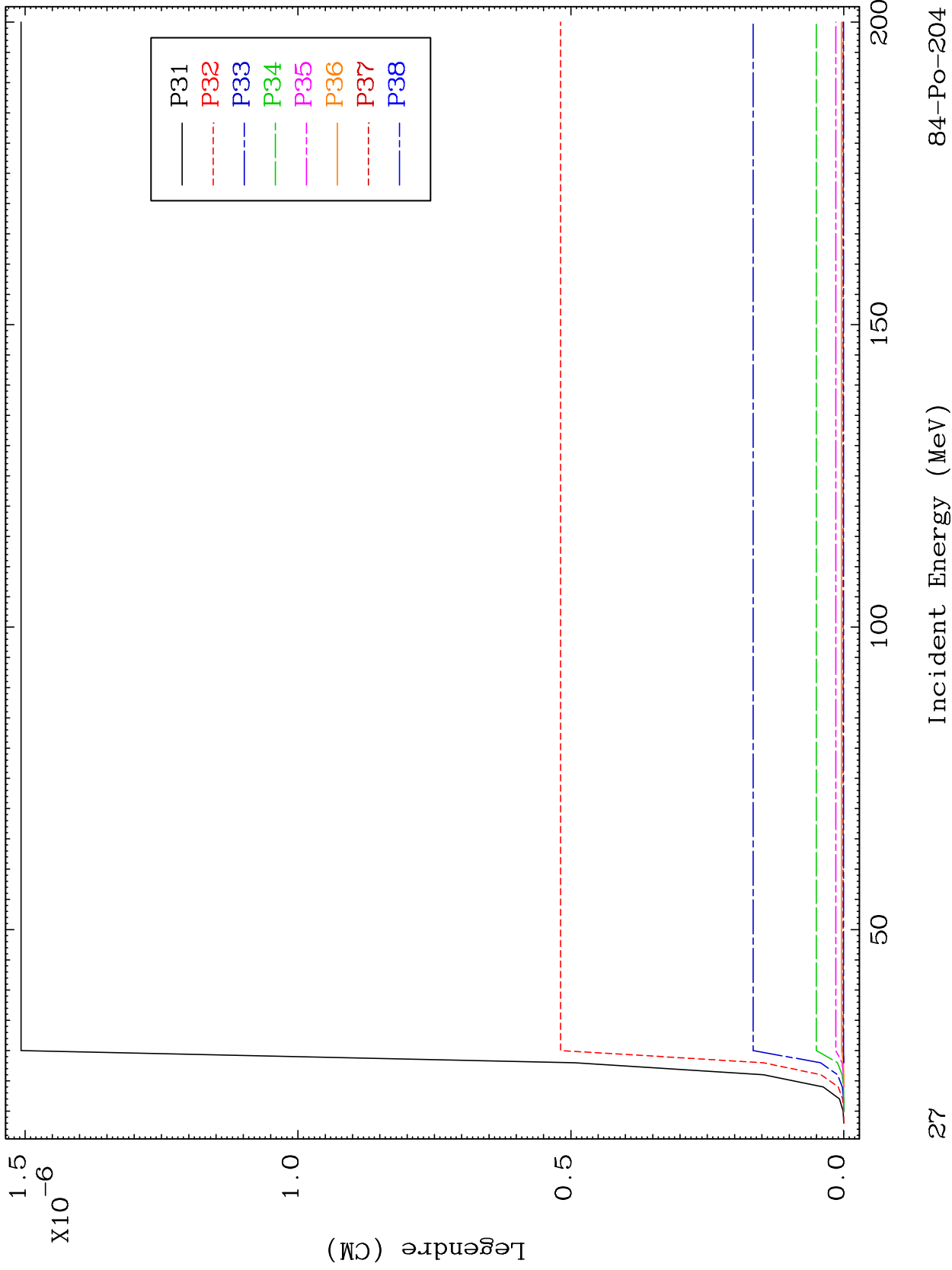
84-Po-204

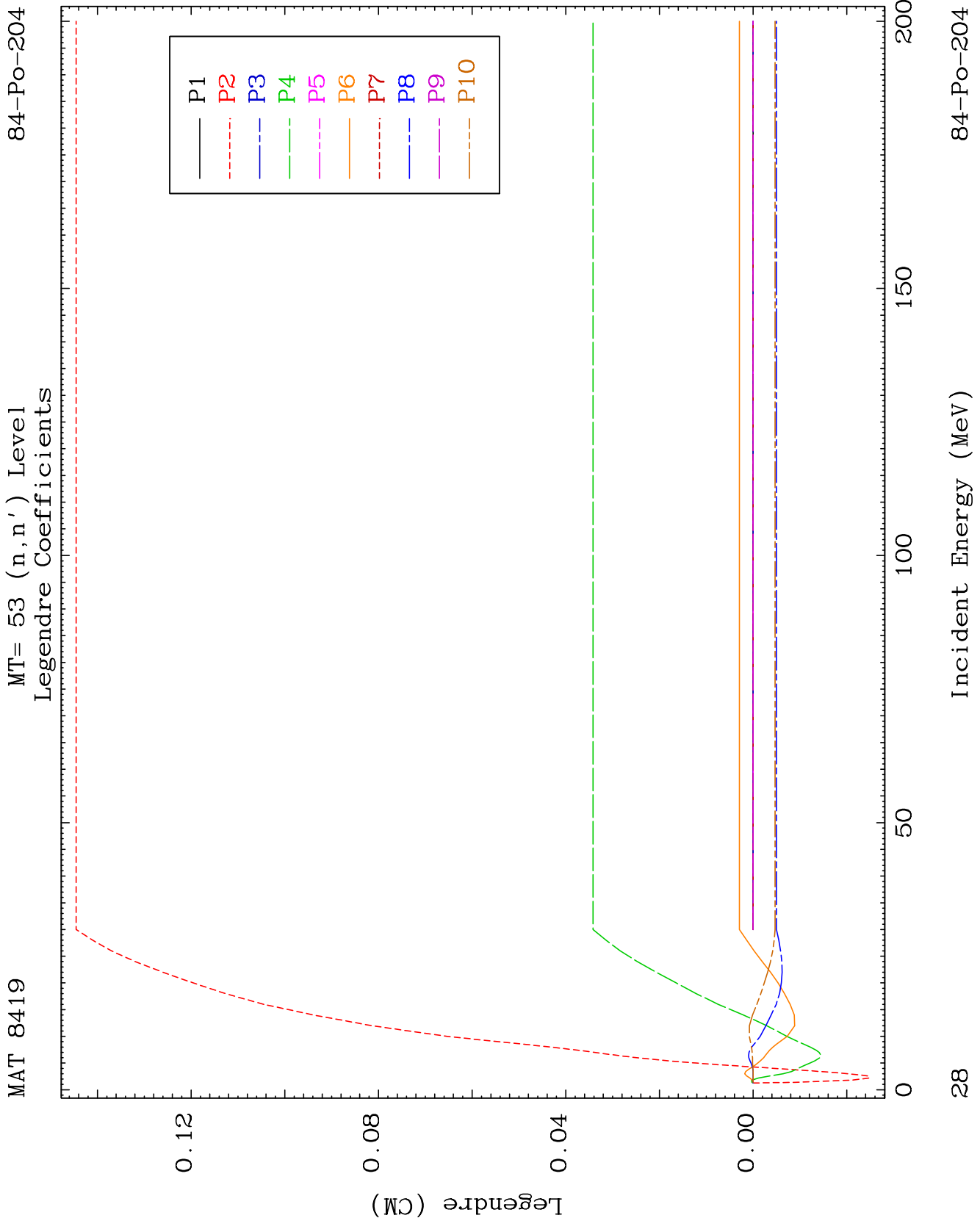


26

Incident Energy (MeV)

84-Po-204

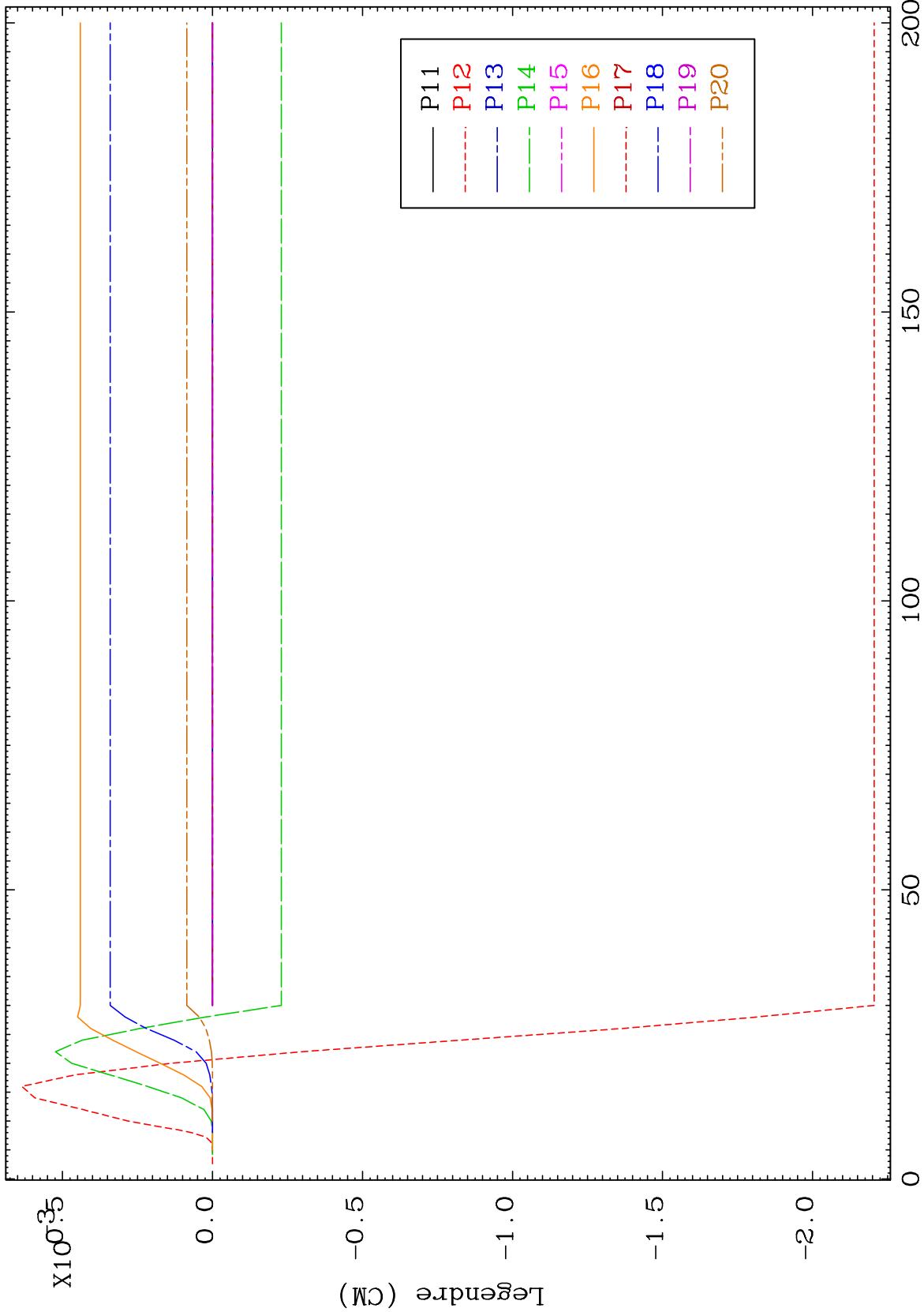




MAT 8419

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

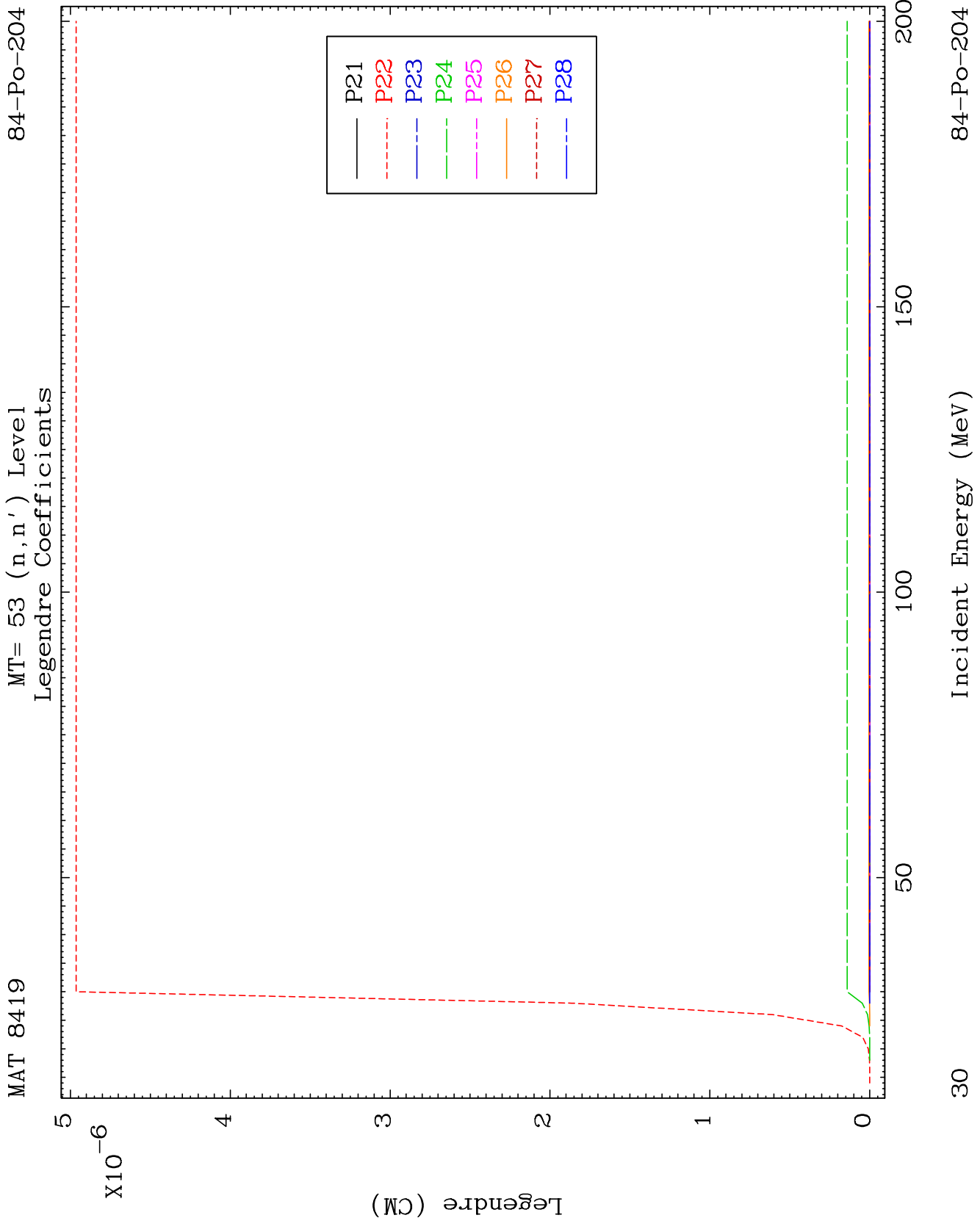
84-Po-204



29

Incident Energy (MeV)

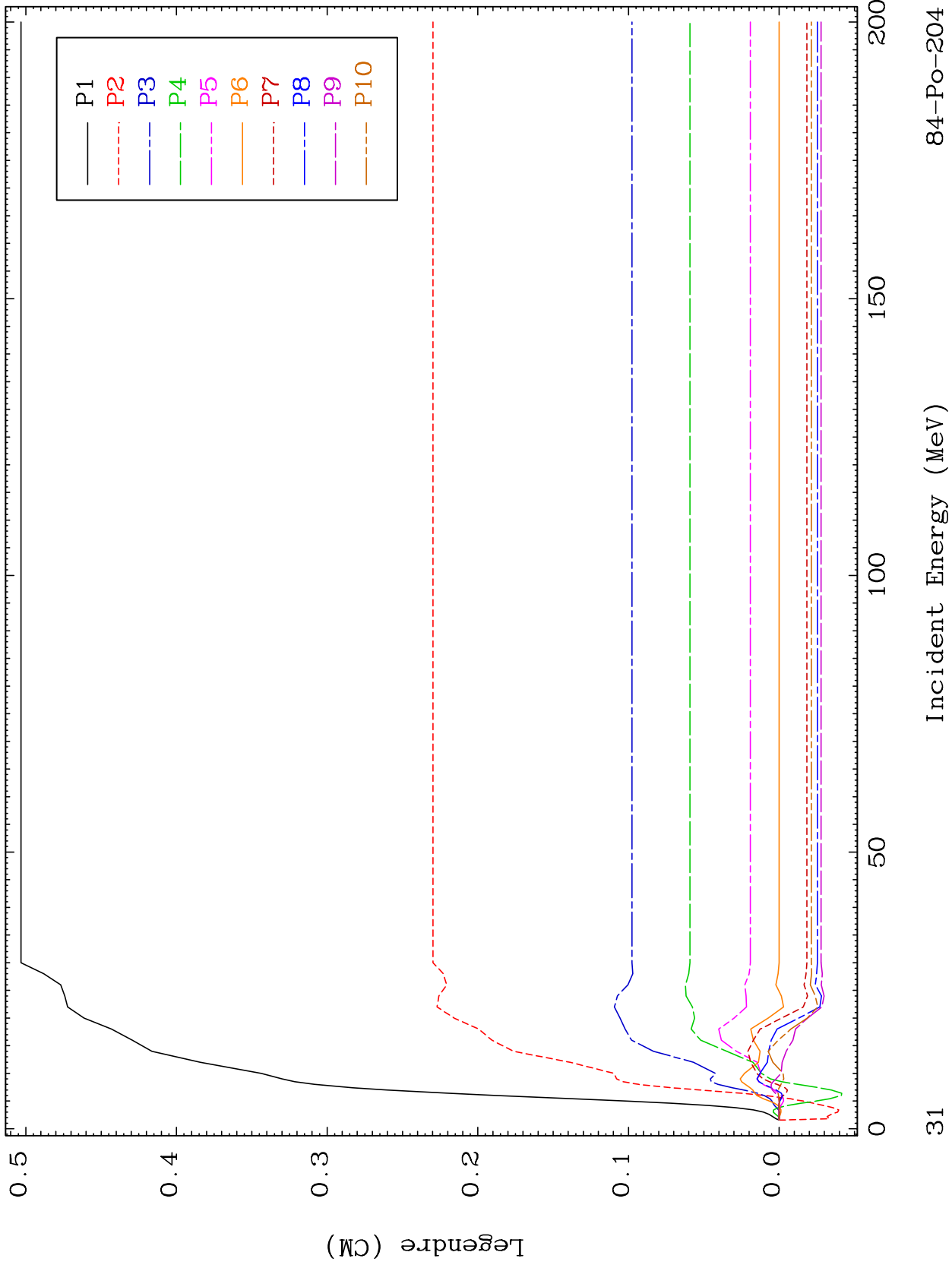
84-Po-204



MAT 8419

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

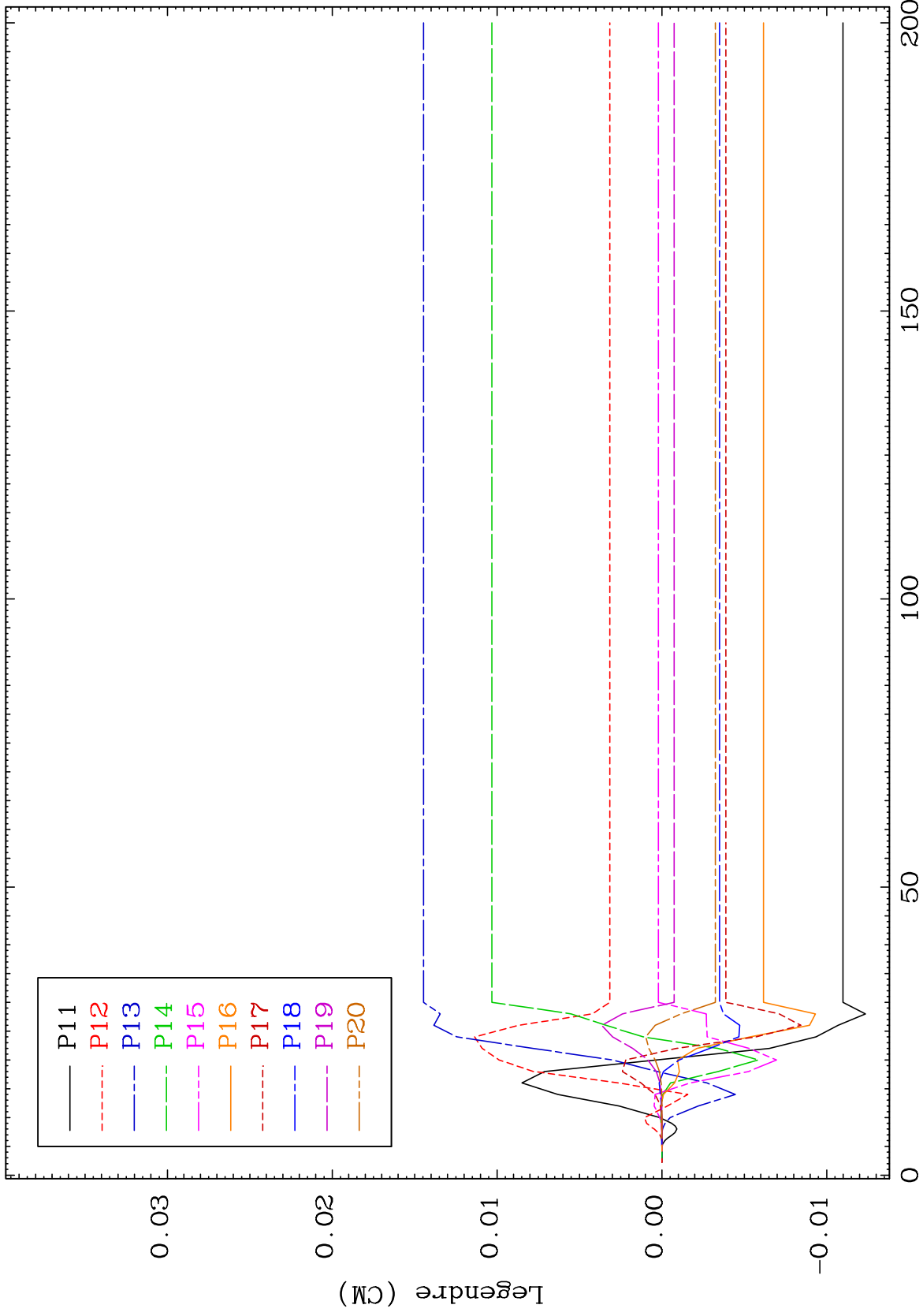
84-Po-204



MAT 8419

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

84-Po-204



32

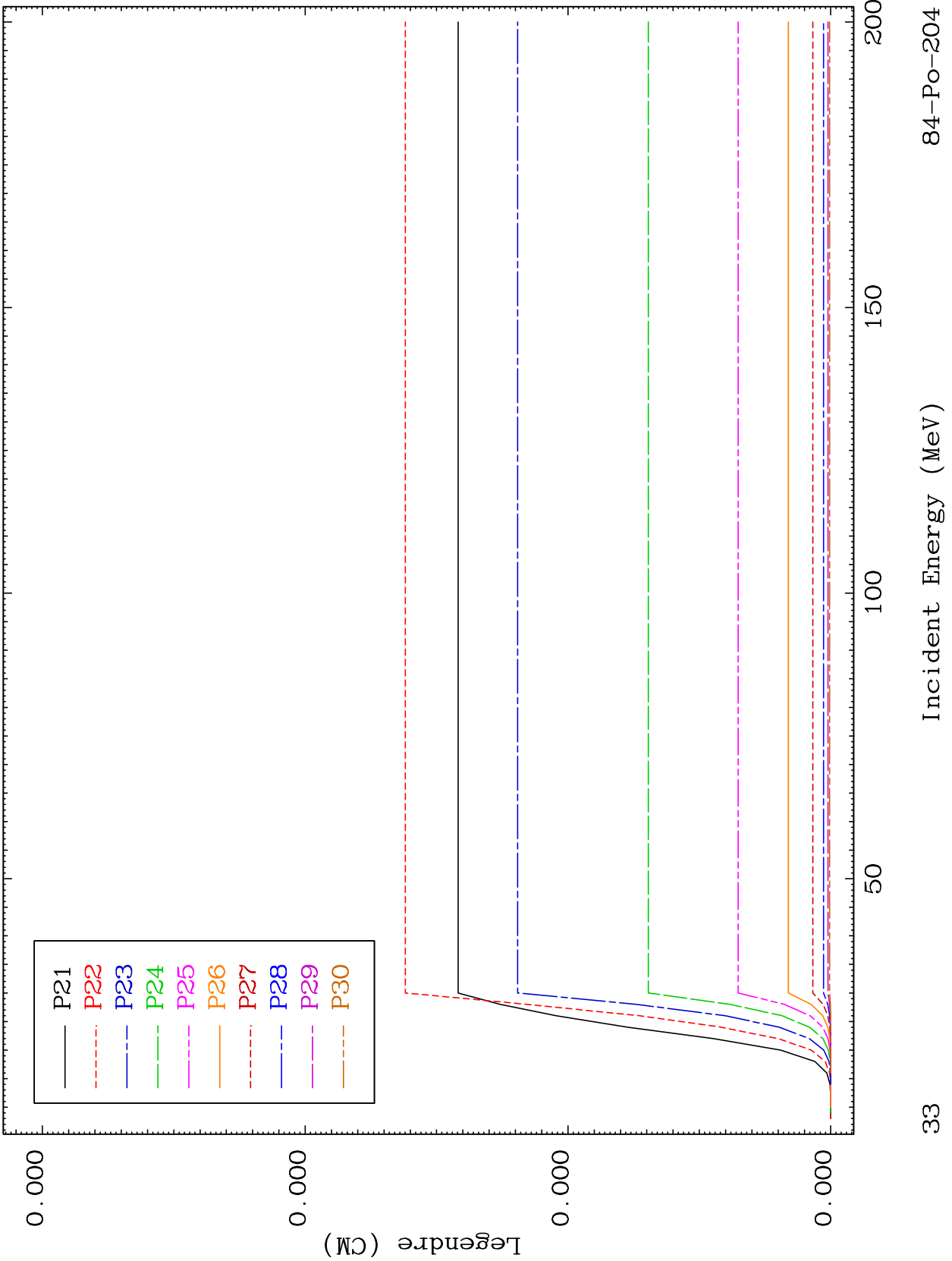
Incident Energy (MeV)

84-Po-204

MAT 8419

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

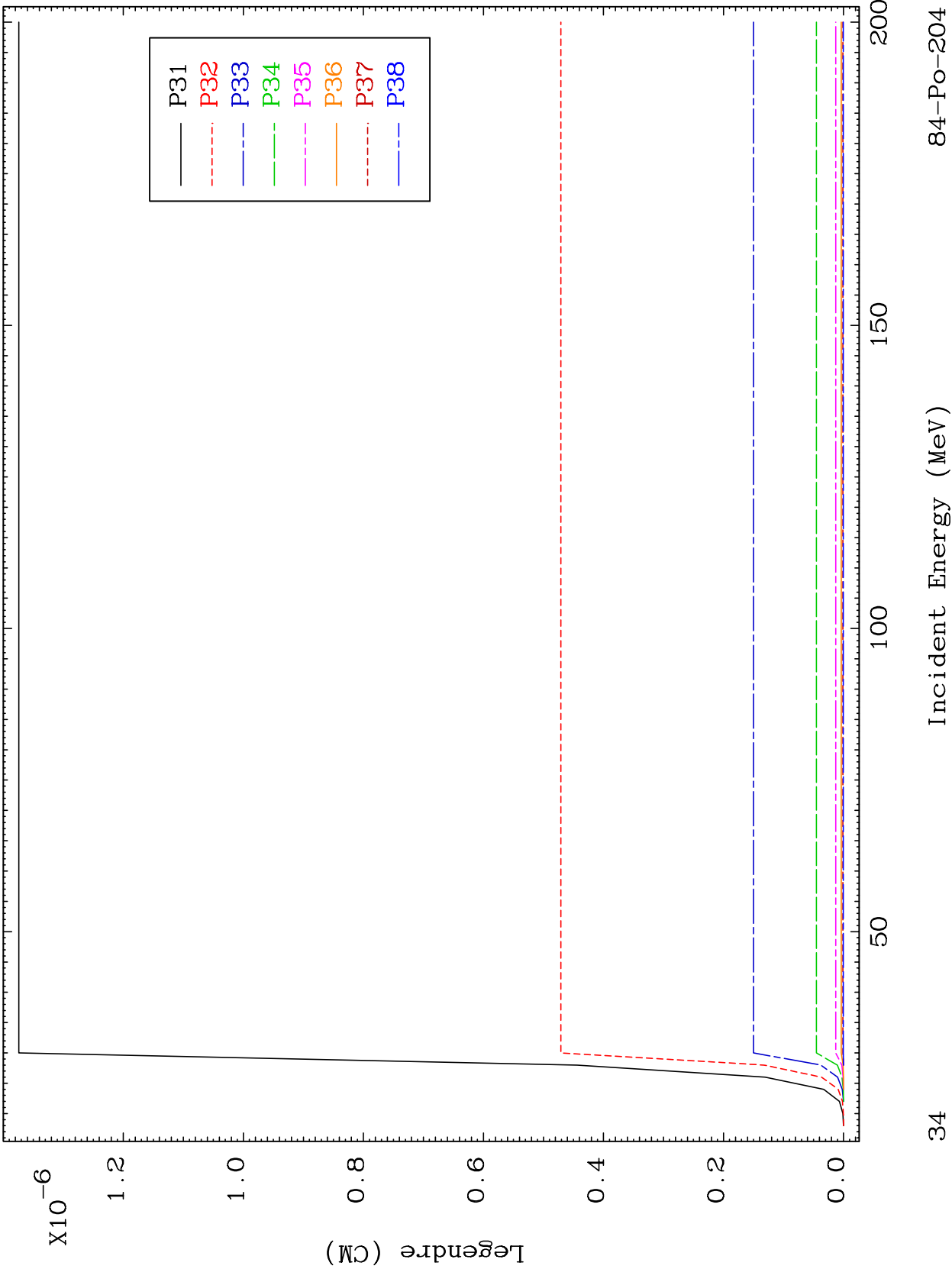
84-Po-204



MAT 8419

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

84-Po-204



34

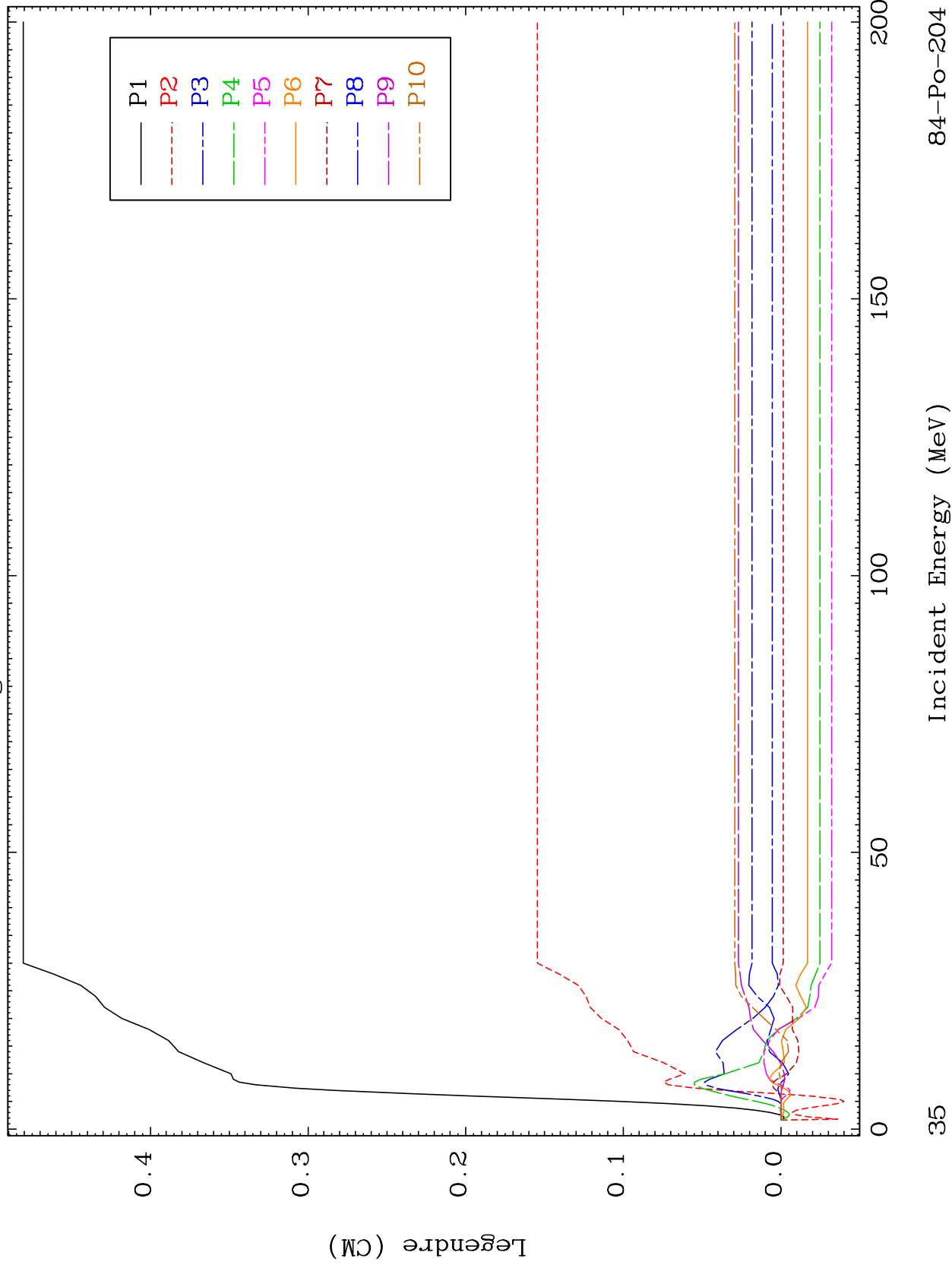
Incident Energy (MeV)

84-Po-204

MAT 8419

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

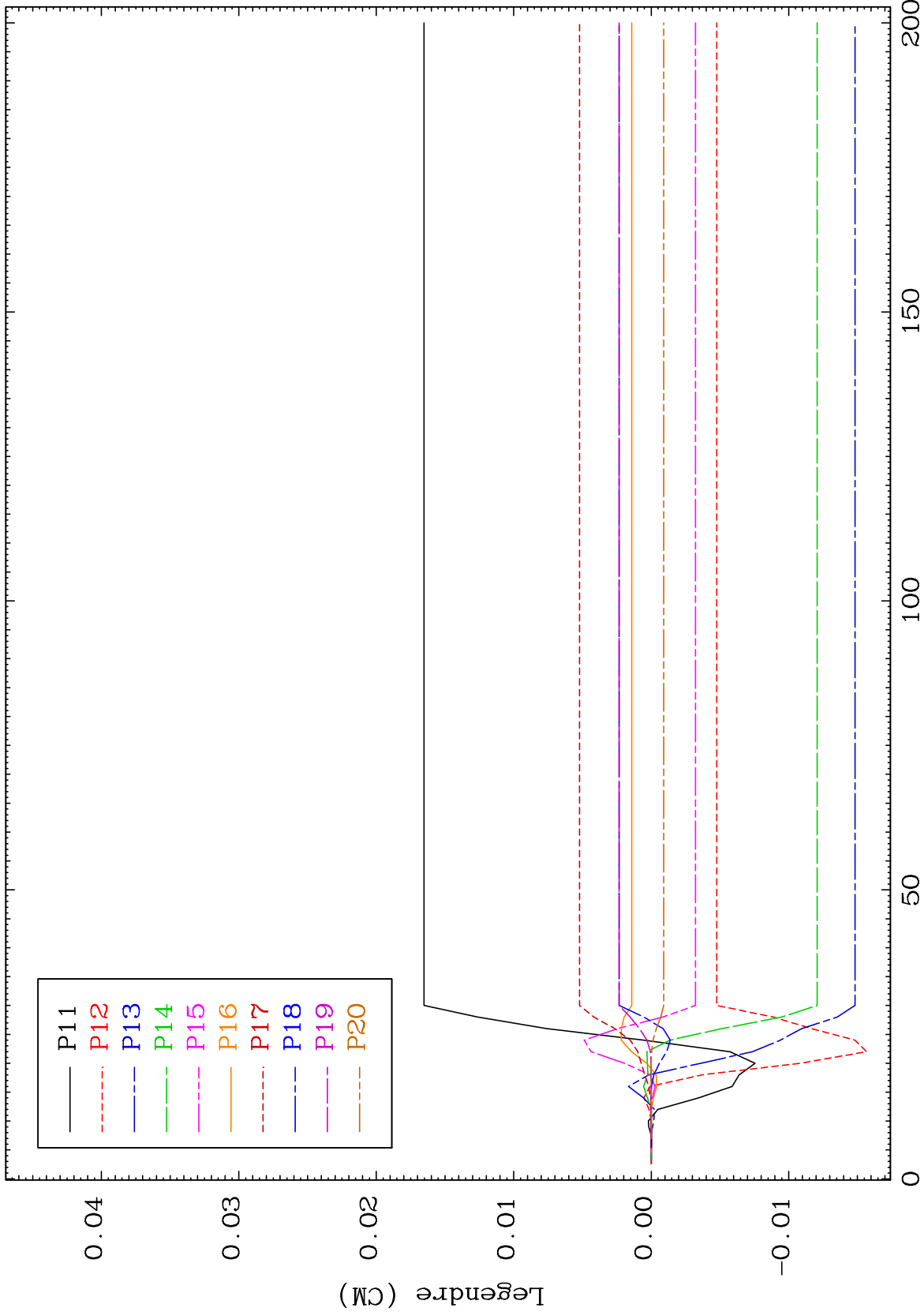
84-Po-204



MAT 8419

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

84-Po-204



36

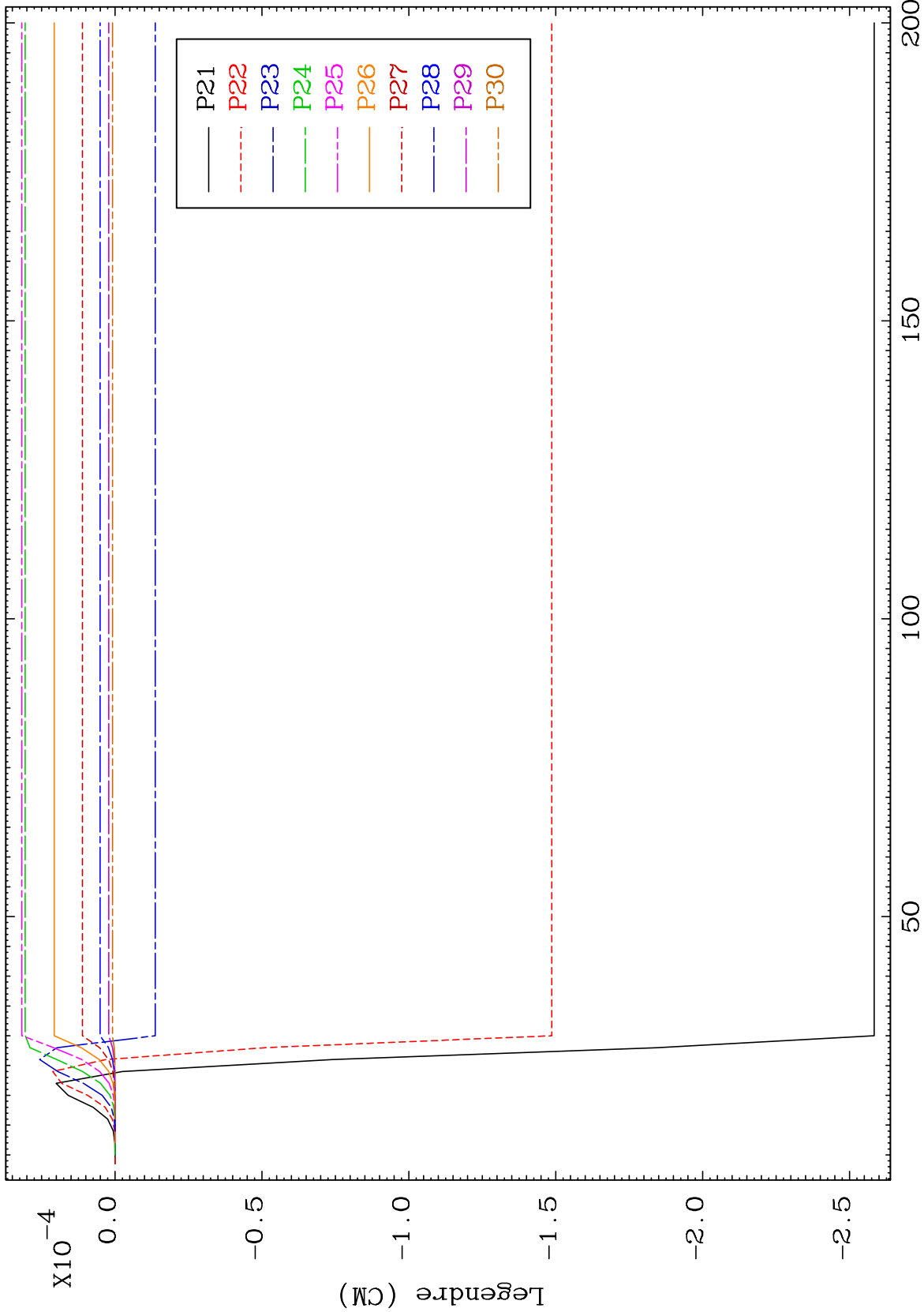
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



37

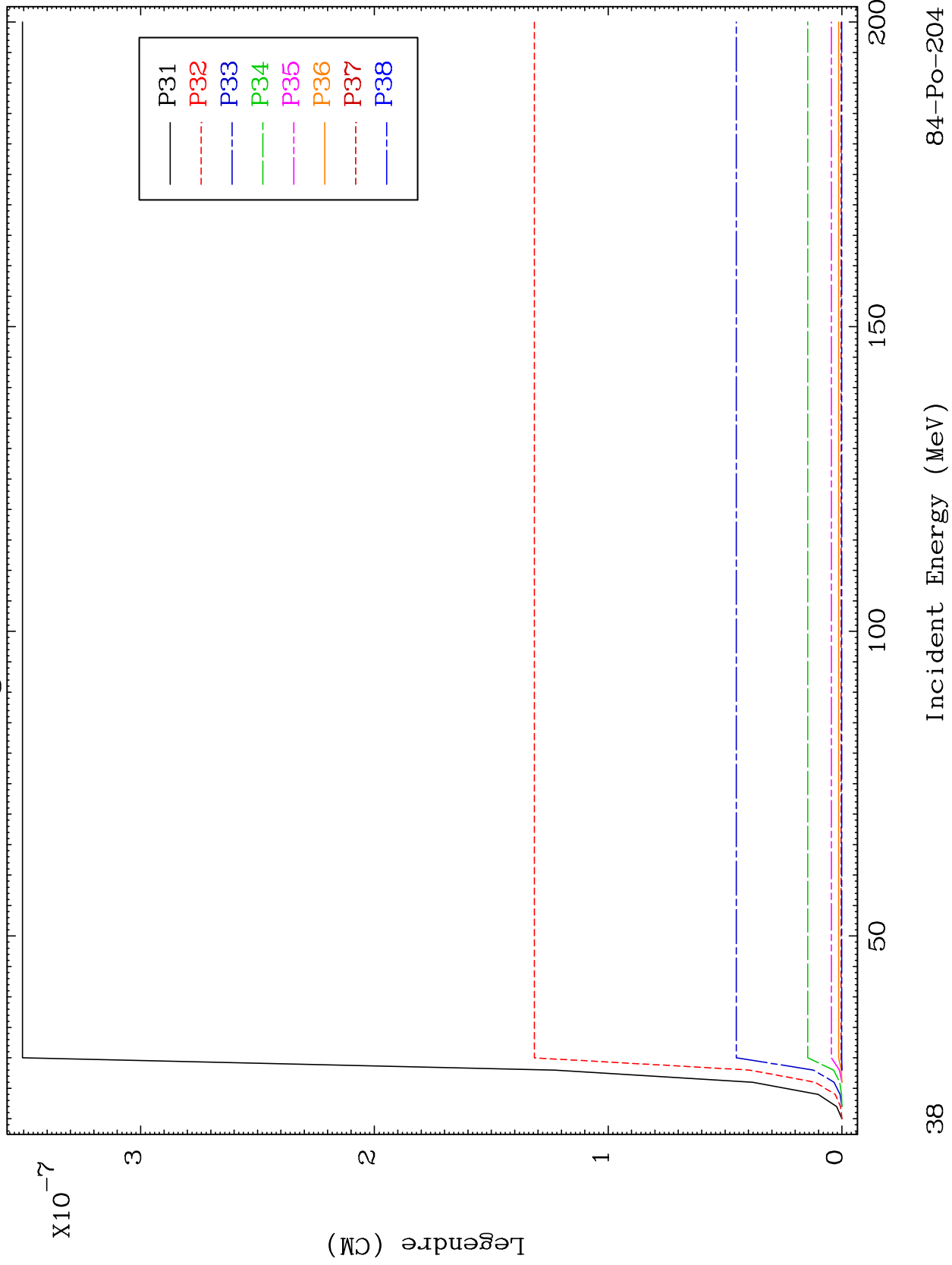
Incident Energy (MeV)

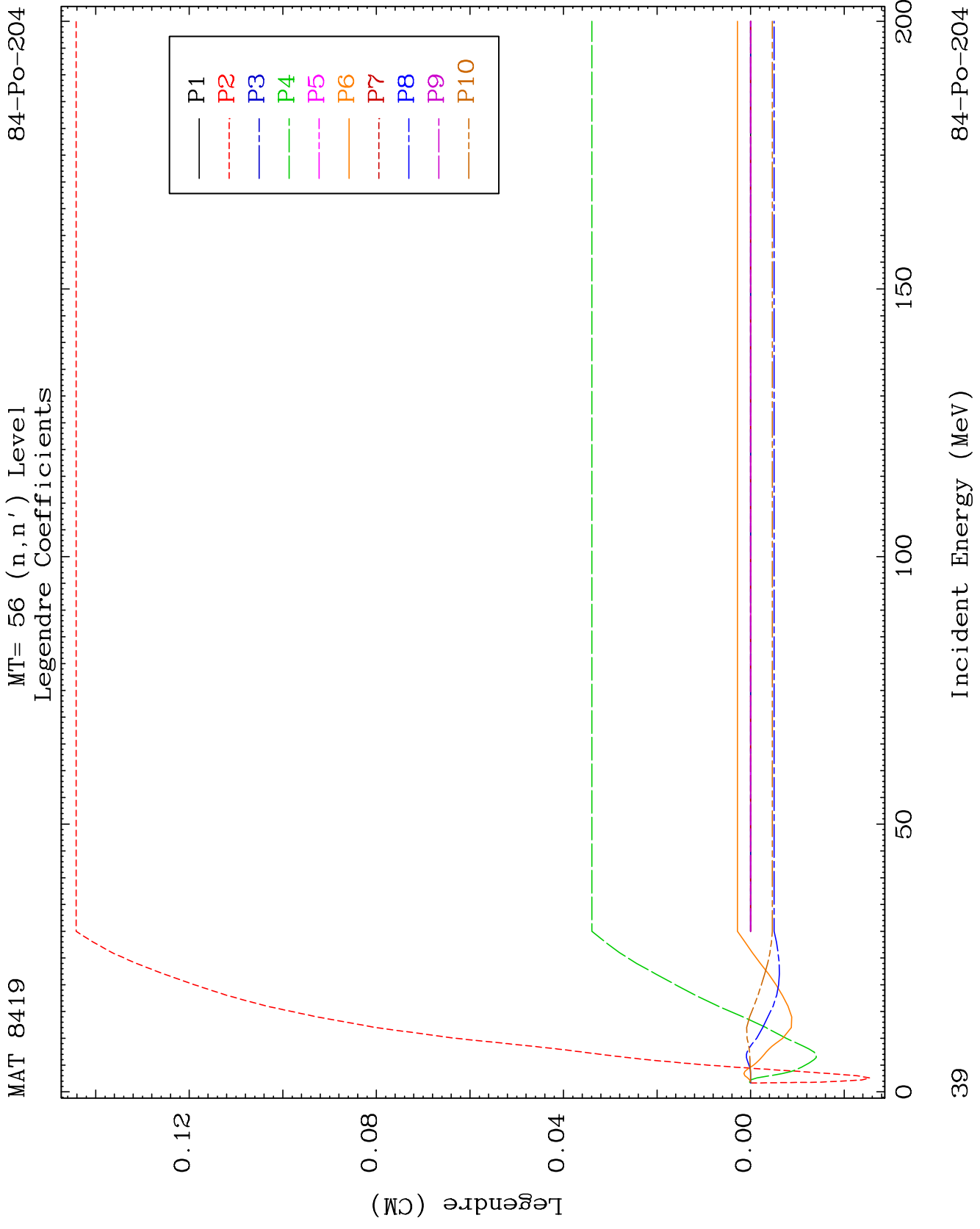
84-Po-204

MAT 8419

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

84-Po-204

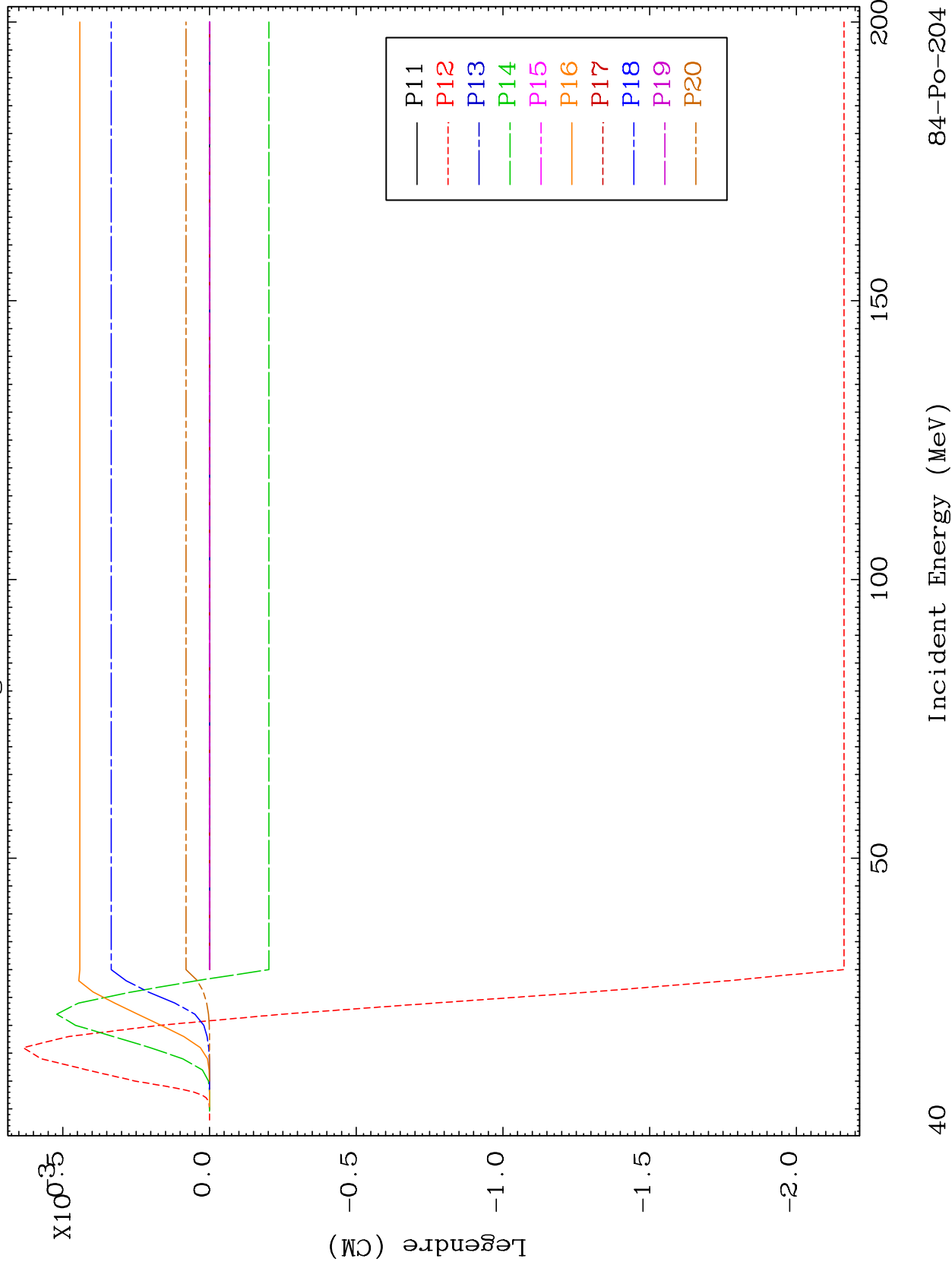




MAT 8419

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

84-Po-204



84-Po-204

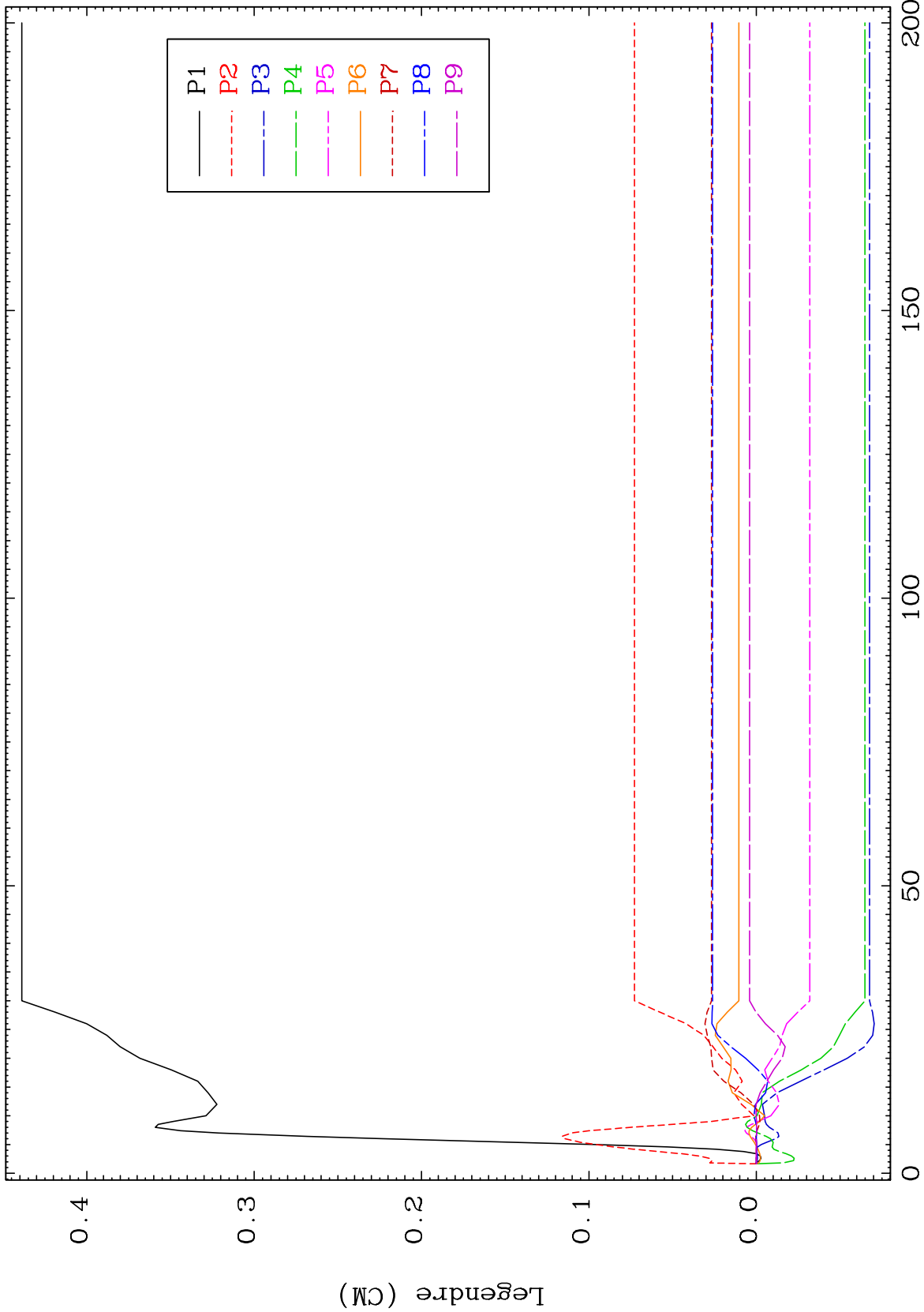
Incident Energy (MeV)

40

MAT 8419

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

84-Po-204



84-Po-204

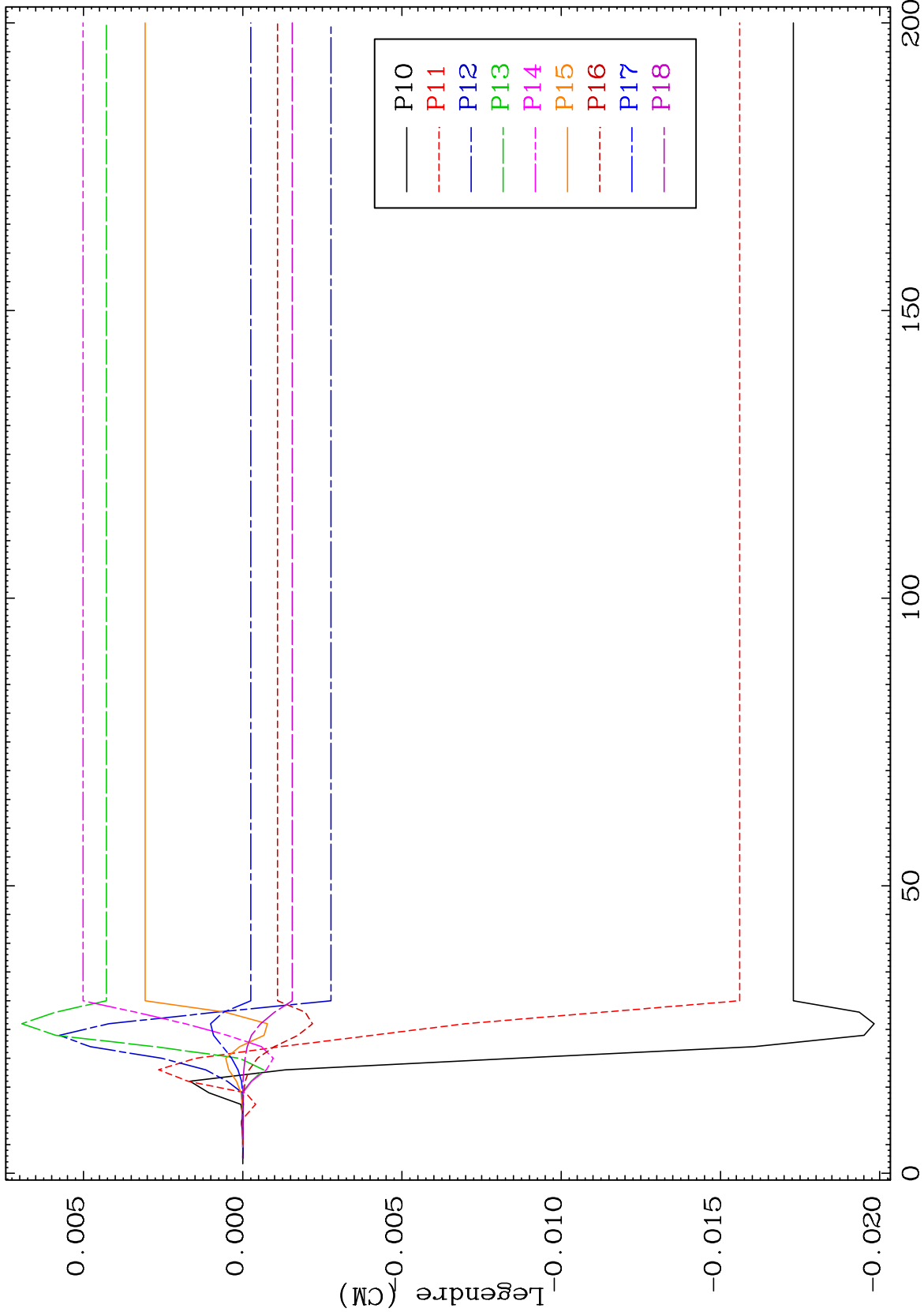
Incident Energy (MeV)

42

MAT 8419

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

84-Po-204



43

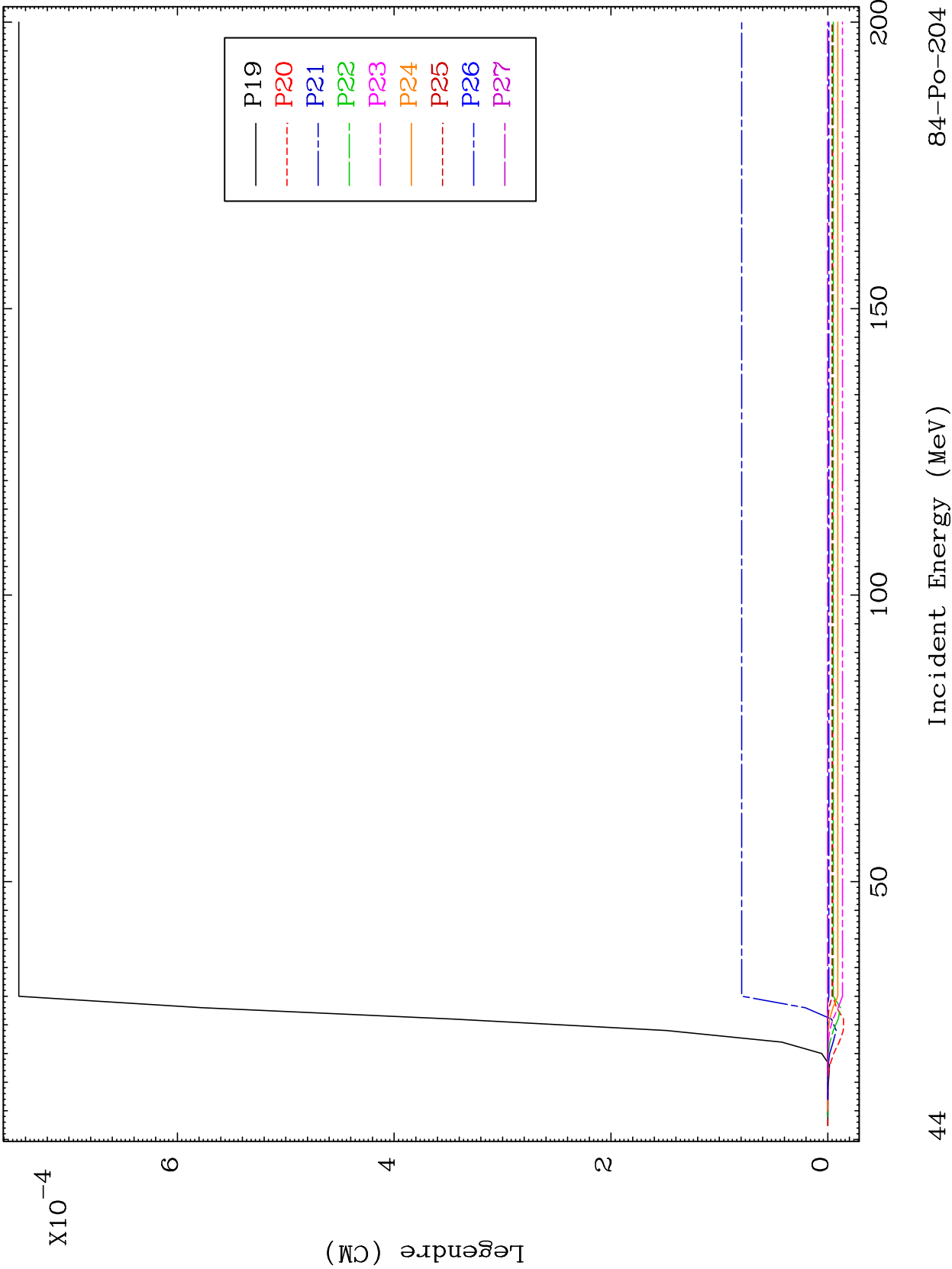
Incident Energy (MeV)

84-Po-204

MAT 8419

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

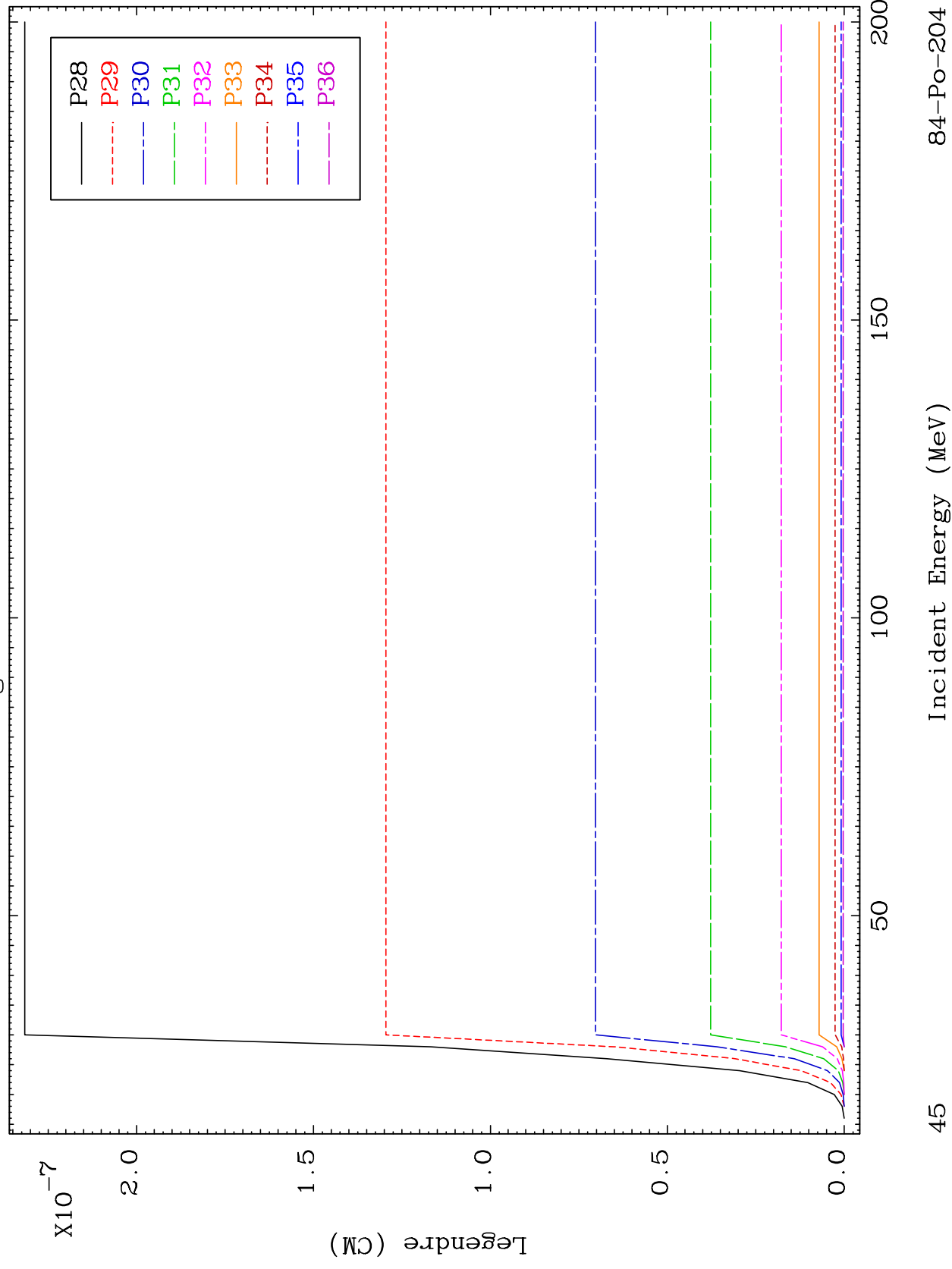
84-Po-204



MAT 8419

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

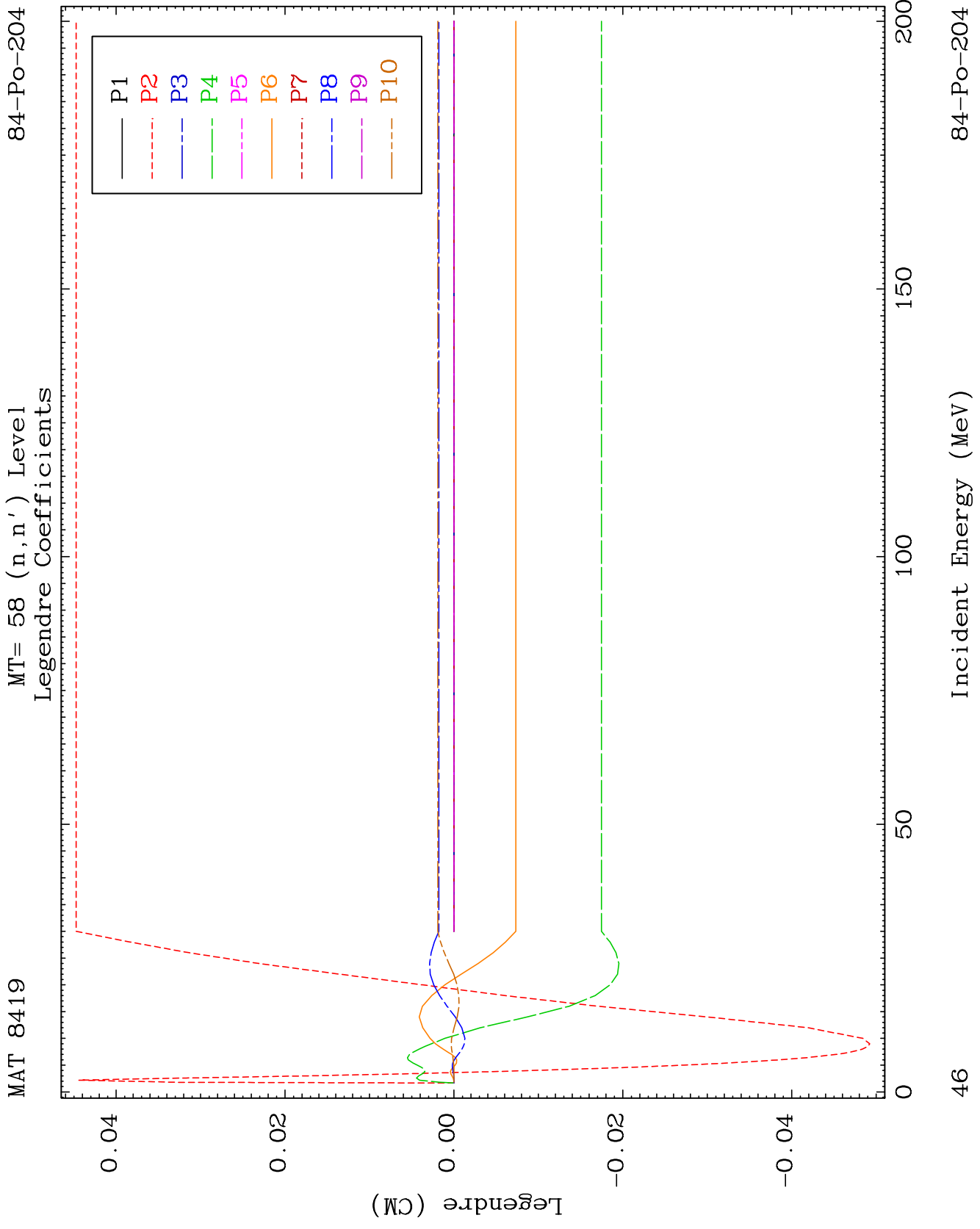
84-Po-204



45

Incident Energy (MeV)

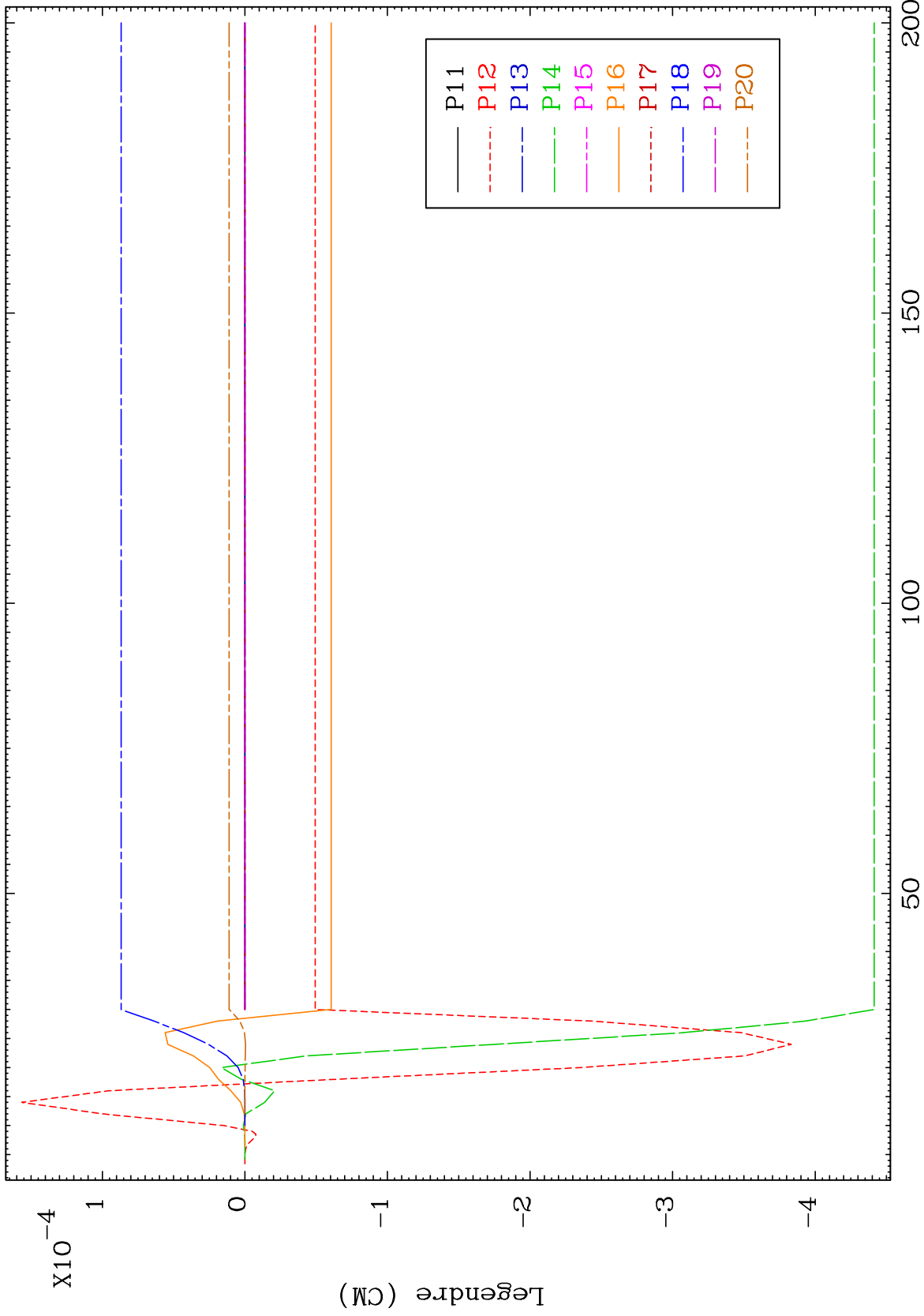
84-Po-204



MAT 8419

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

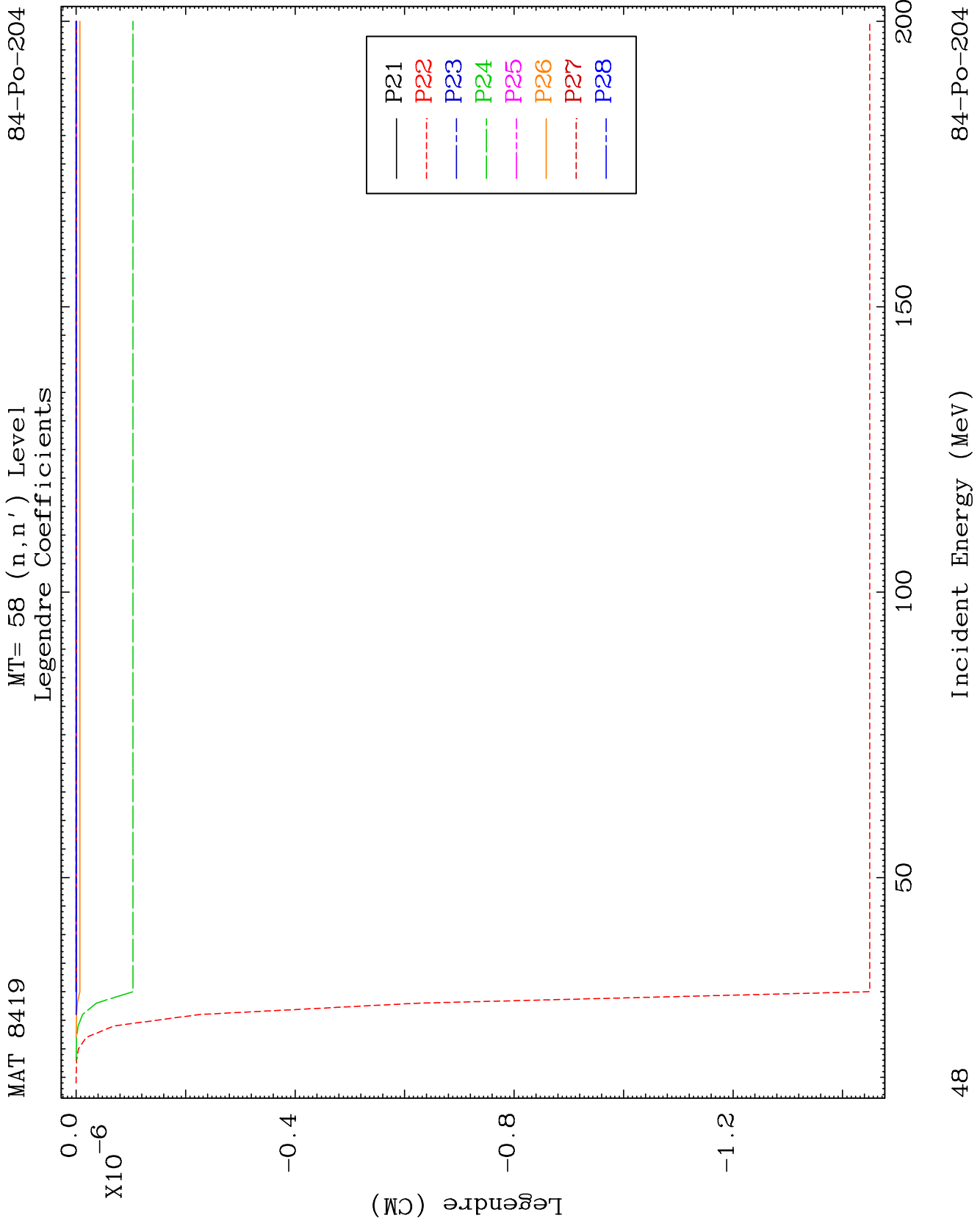
84-Po-204



47

Incident Energy (MeV)

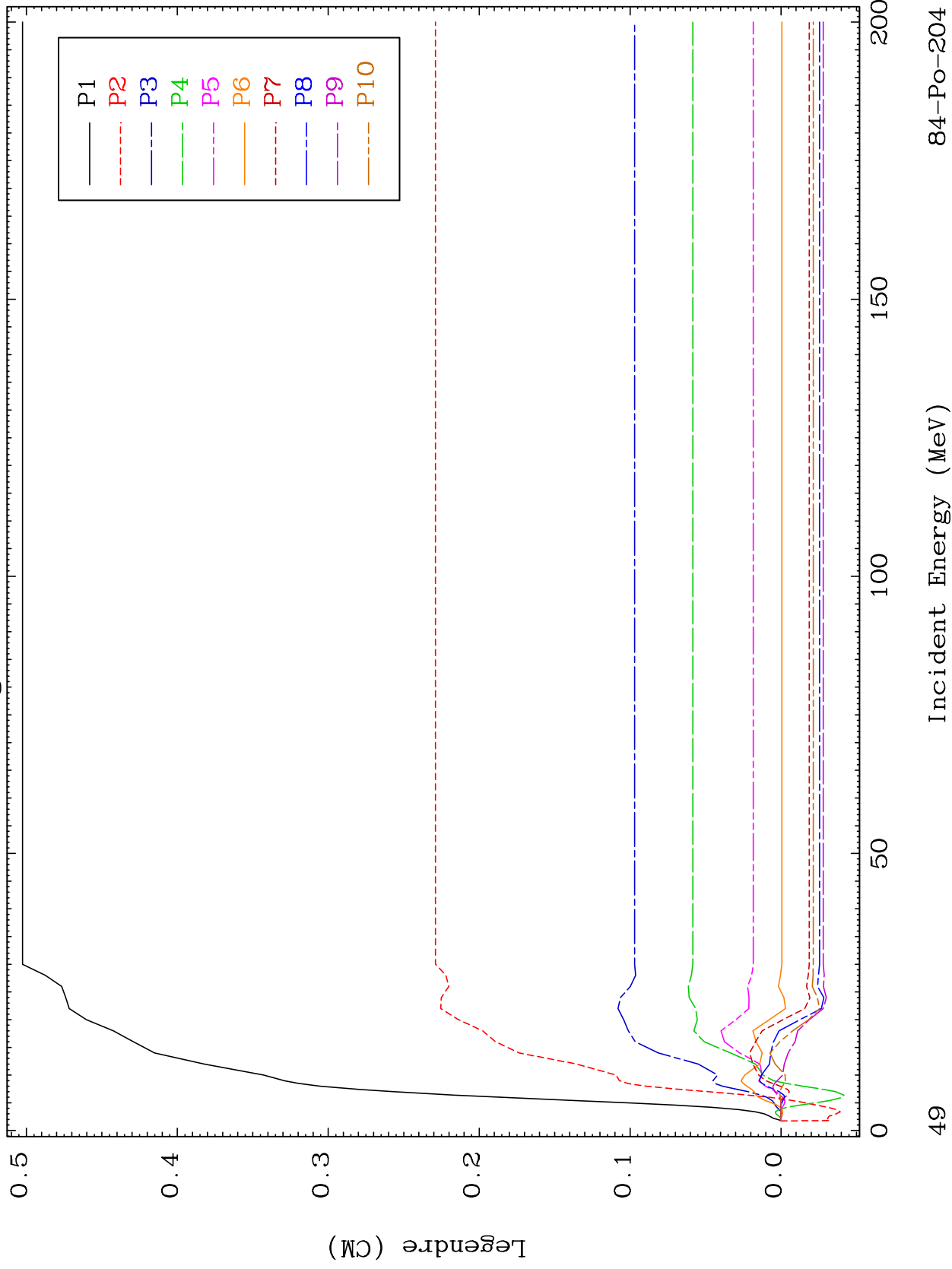
84-Po-204



MAT 8419

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

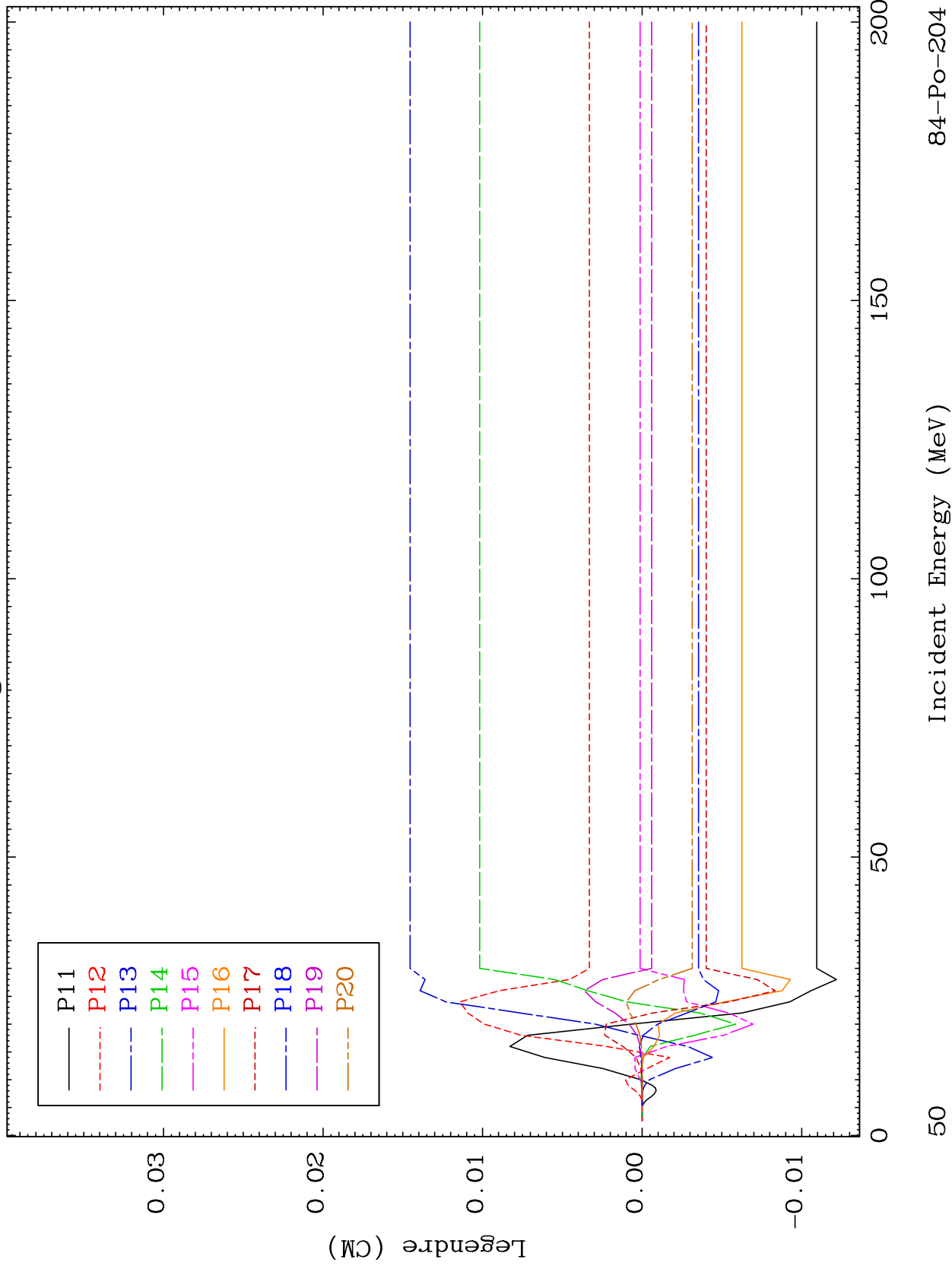
84-Po-204



MAT 8419

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

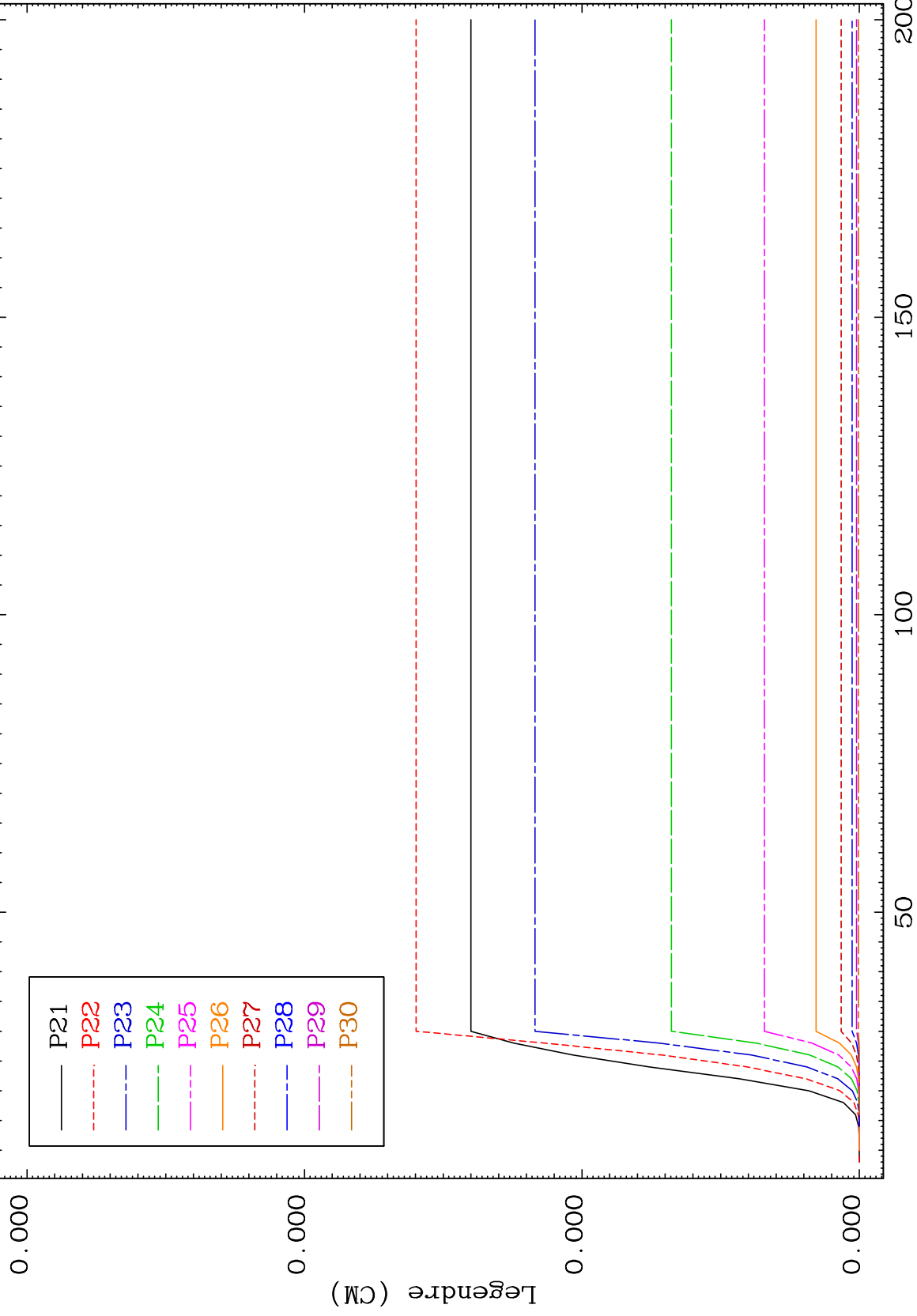
84-Po-204



MAT 8419

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

84-Po-204



51

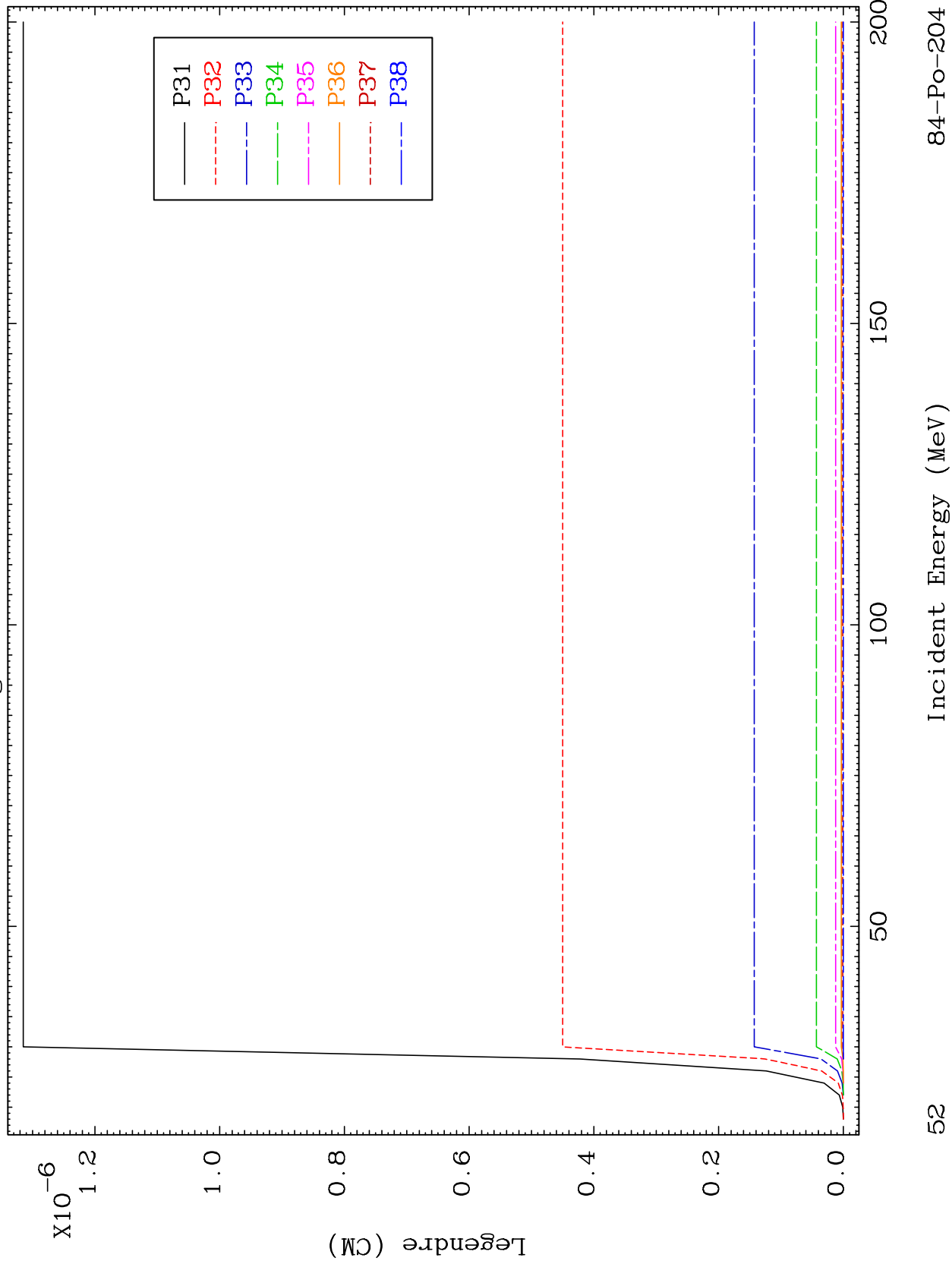
Incident Energy (MeV)

84-Po-204

MAT 8419

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

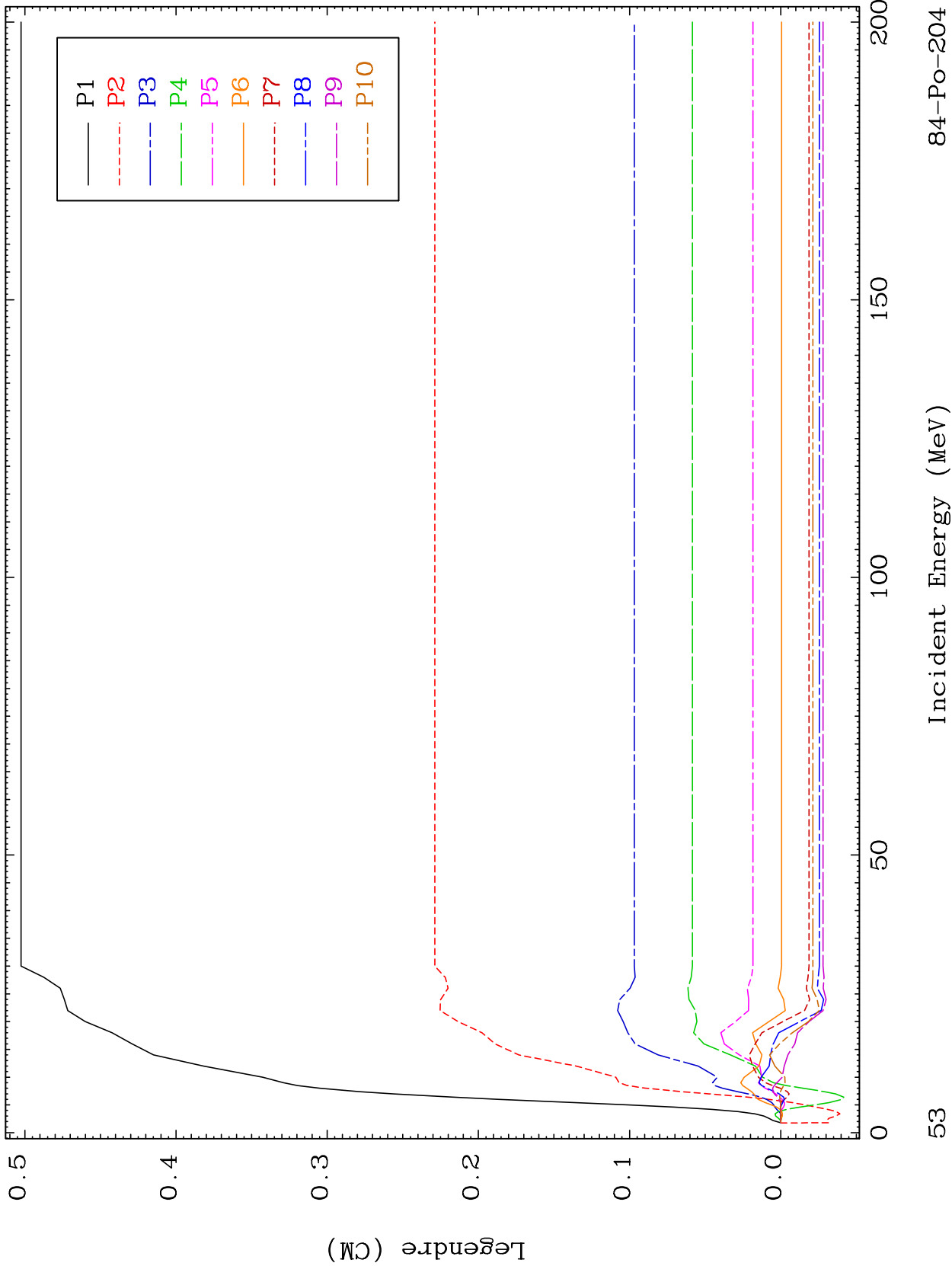
84-Po-204



MAT 8419

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

84-Po-204

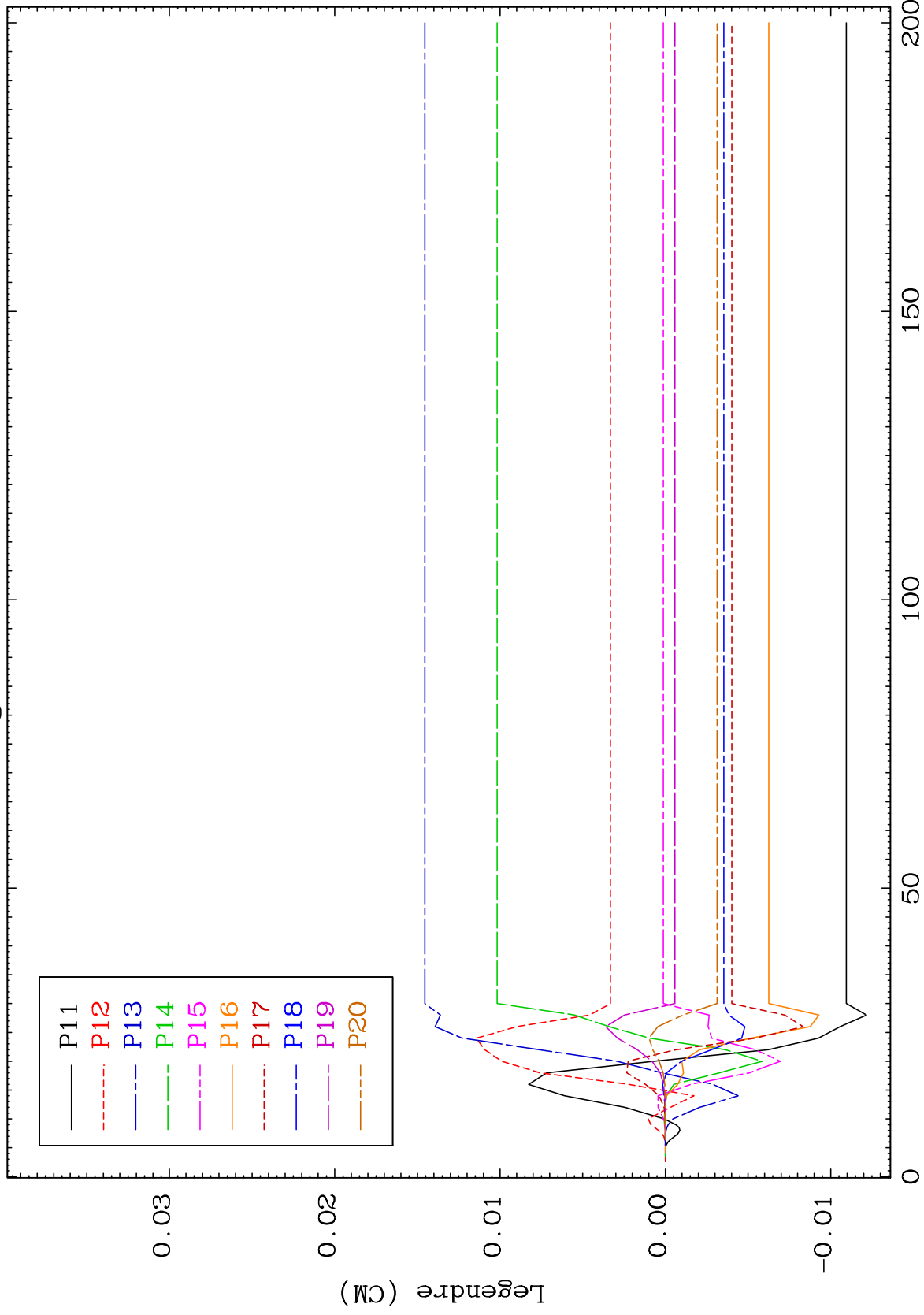


53

MAT 8419

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

84-Po-204



54

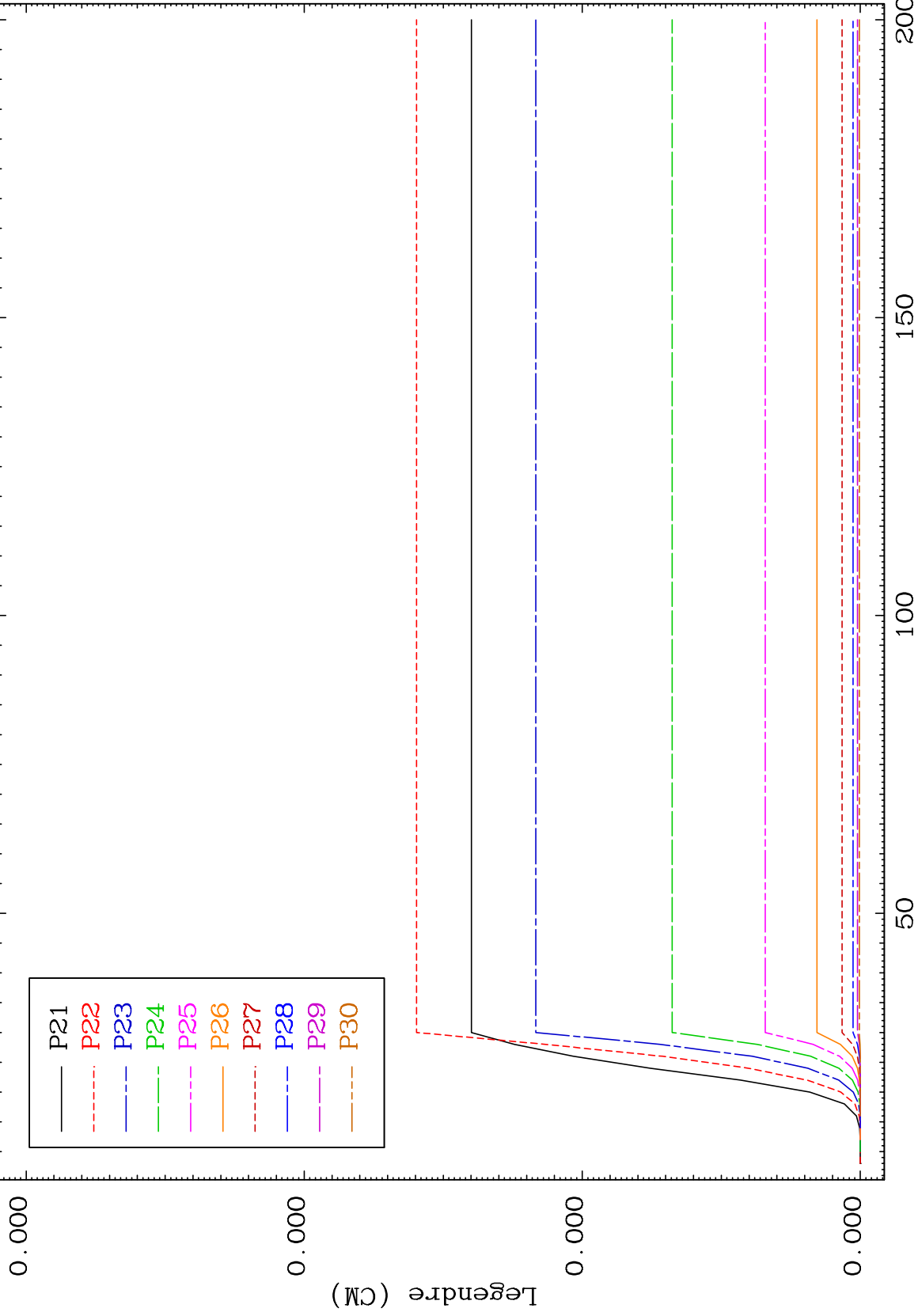
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



55

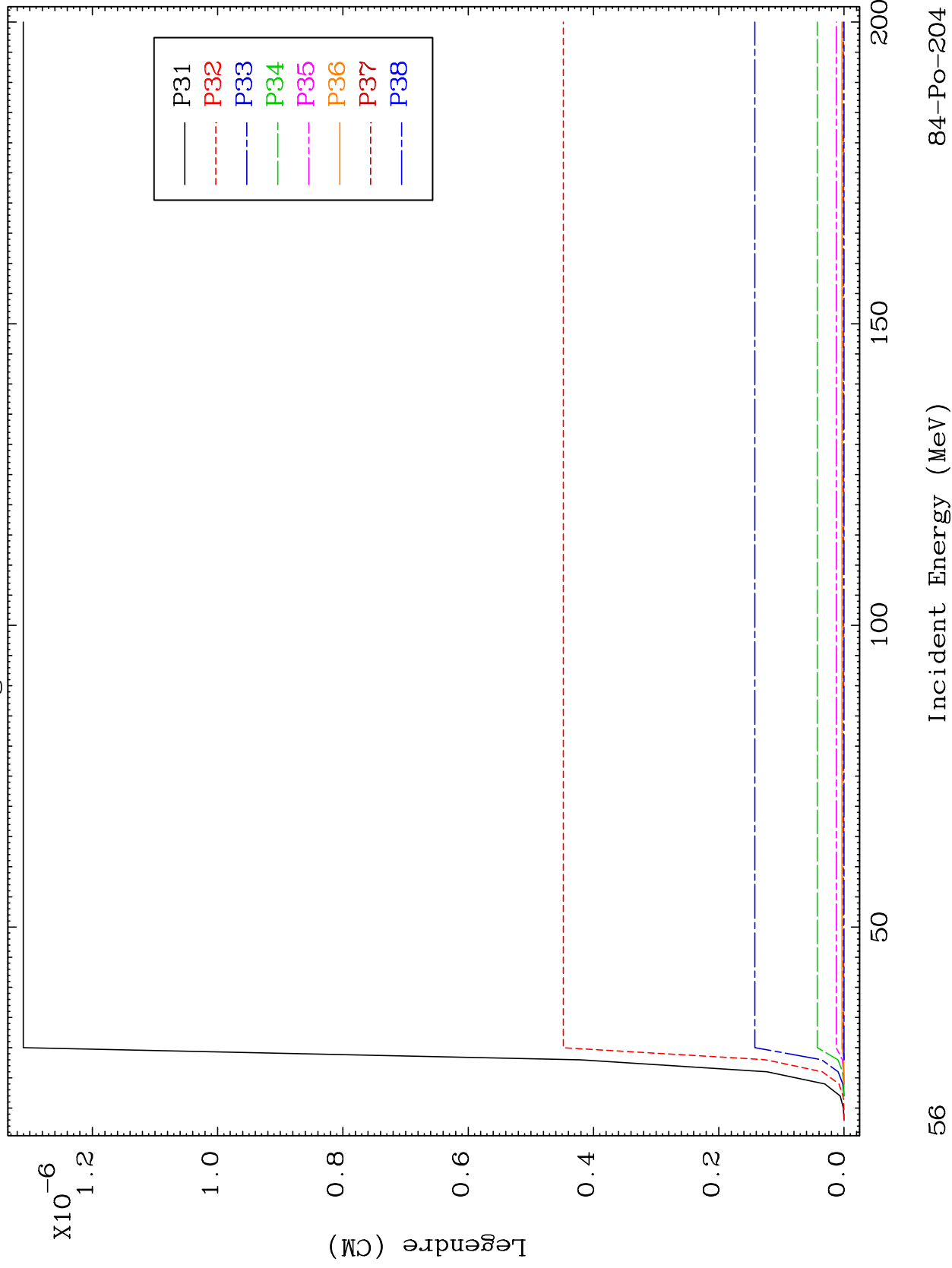
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



56

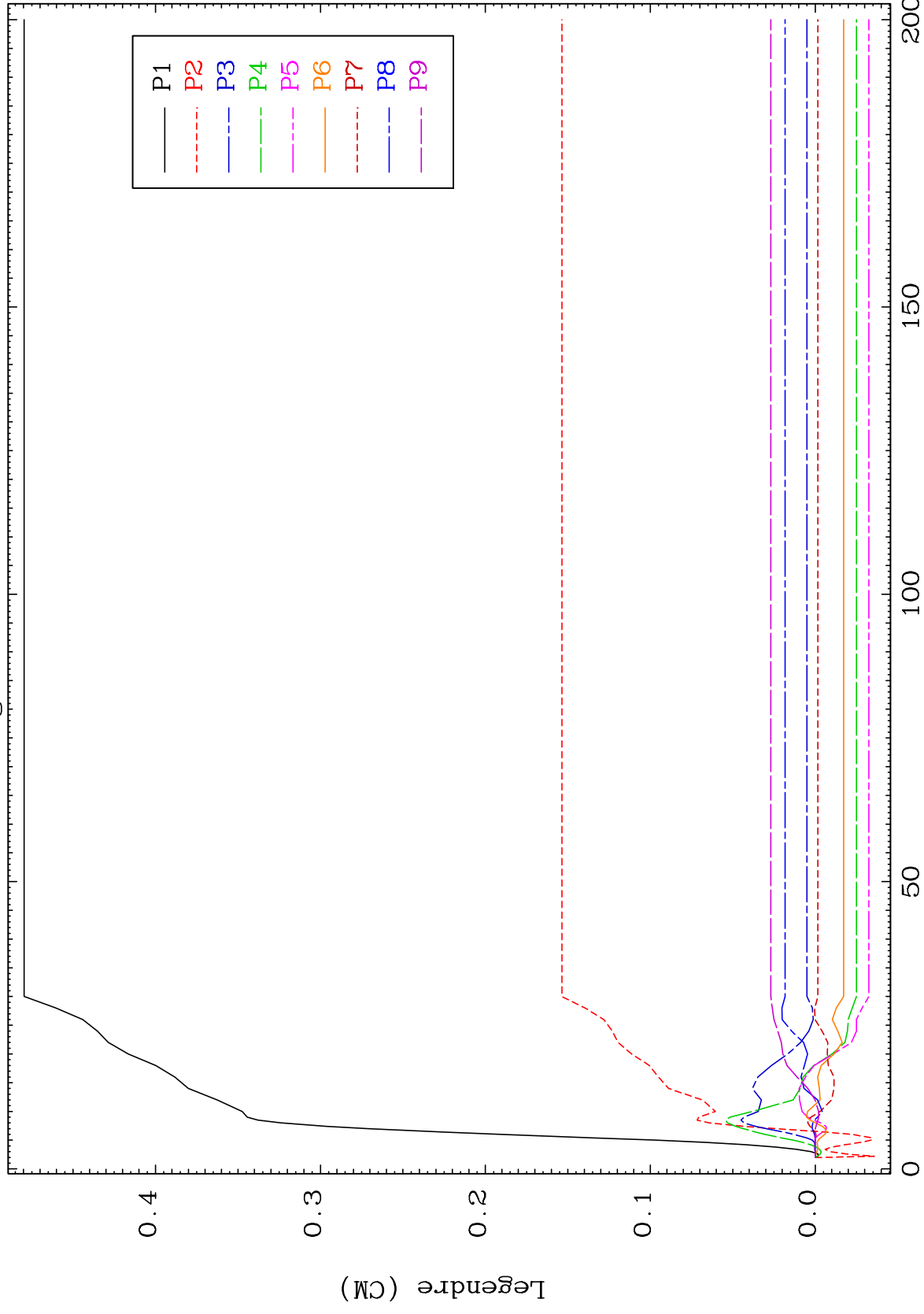
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



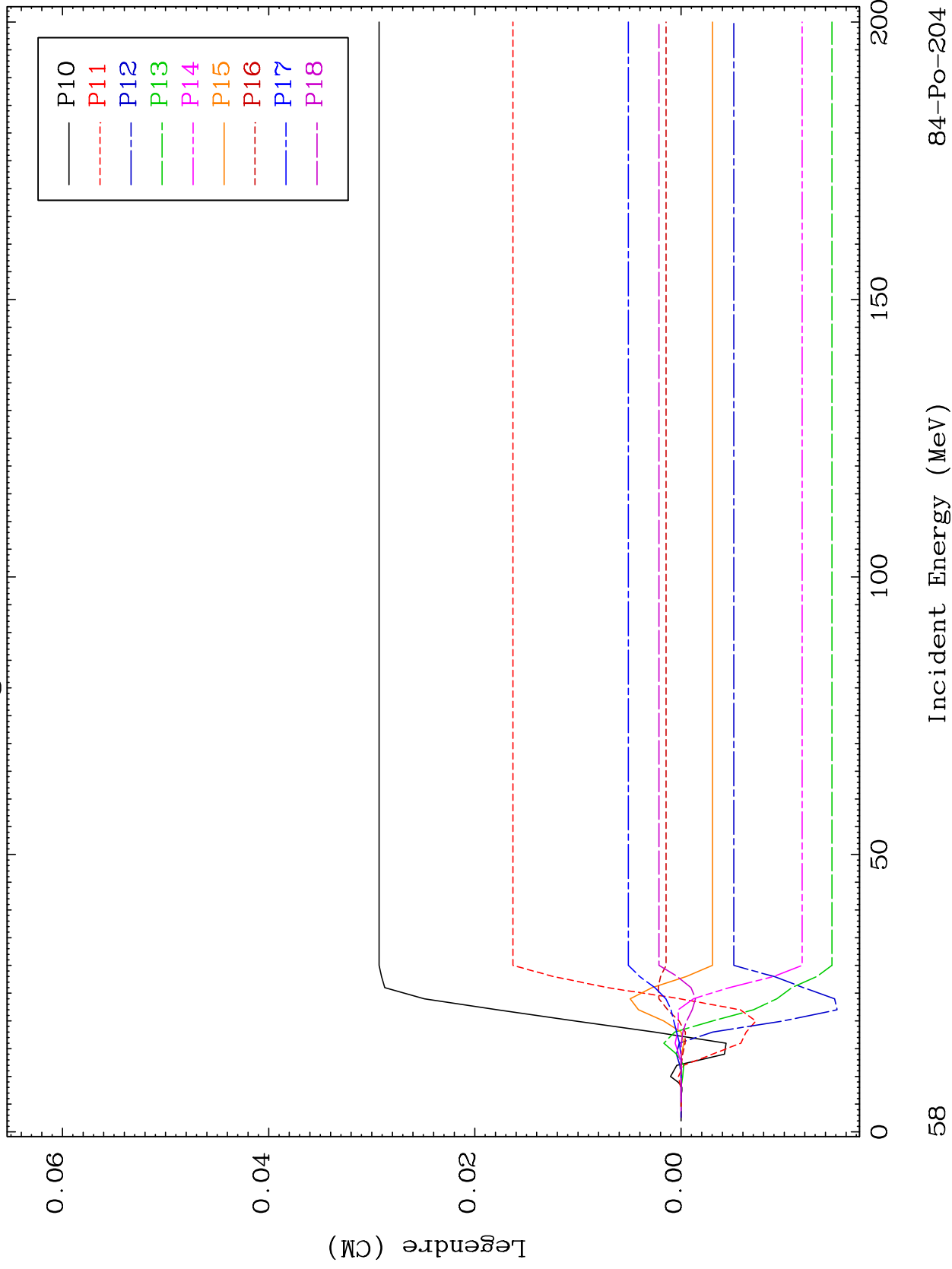
57

84-Po-204

MAT 8419

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

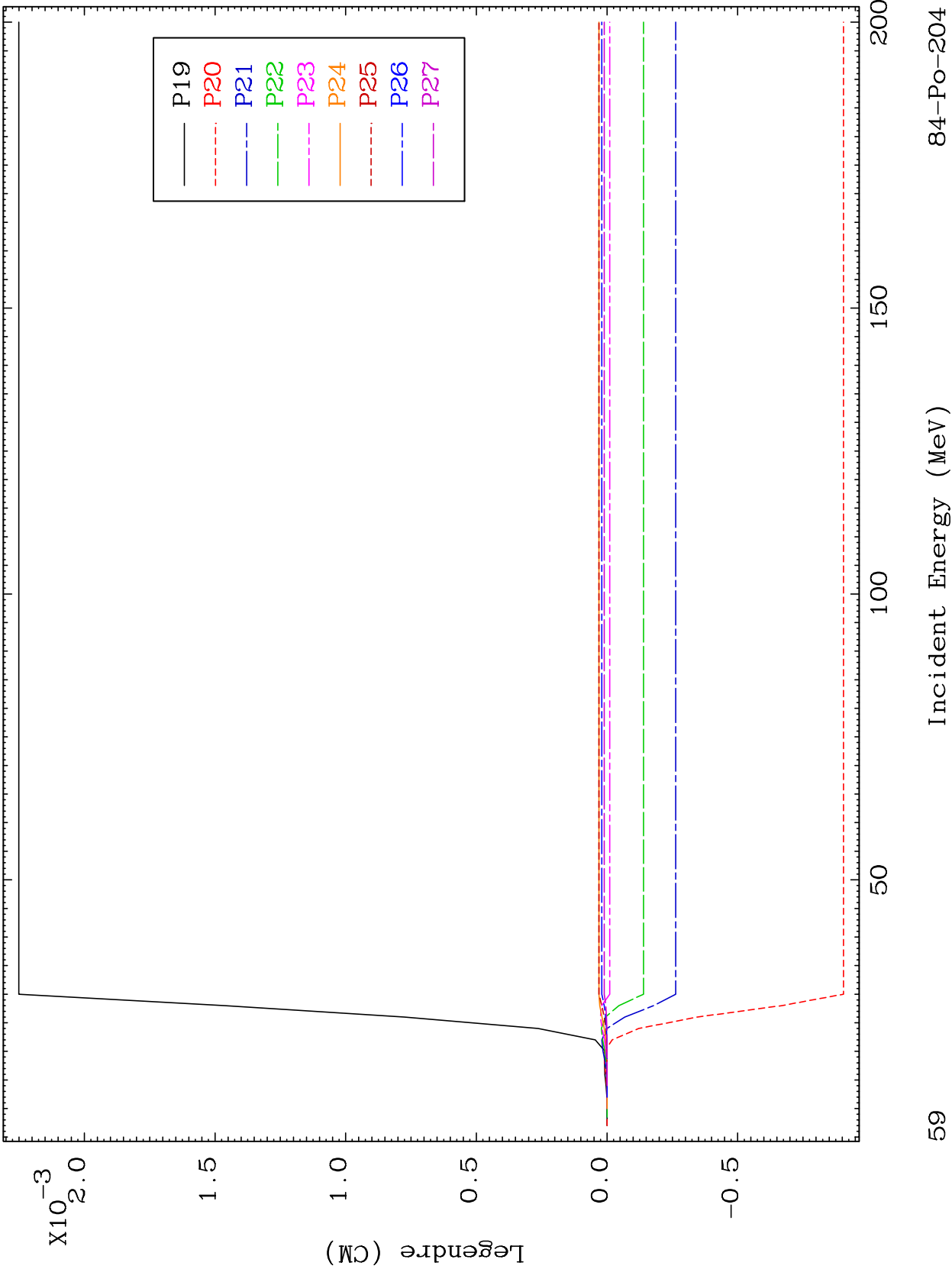
84-Po-204



84-Po-204

Incident Energy (MeV)

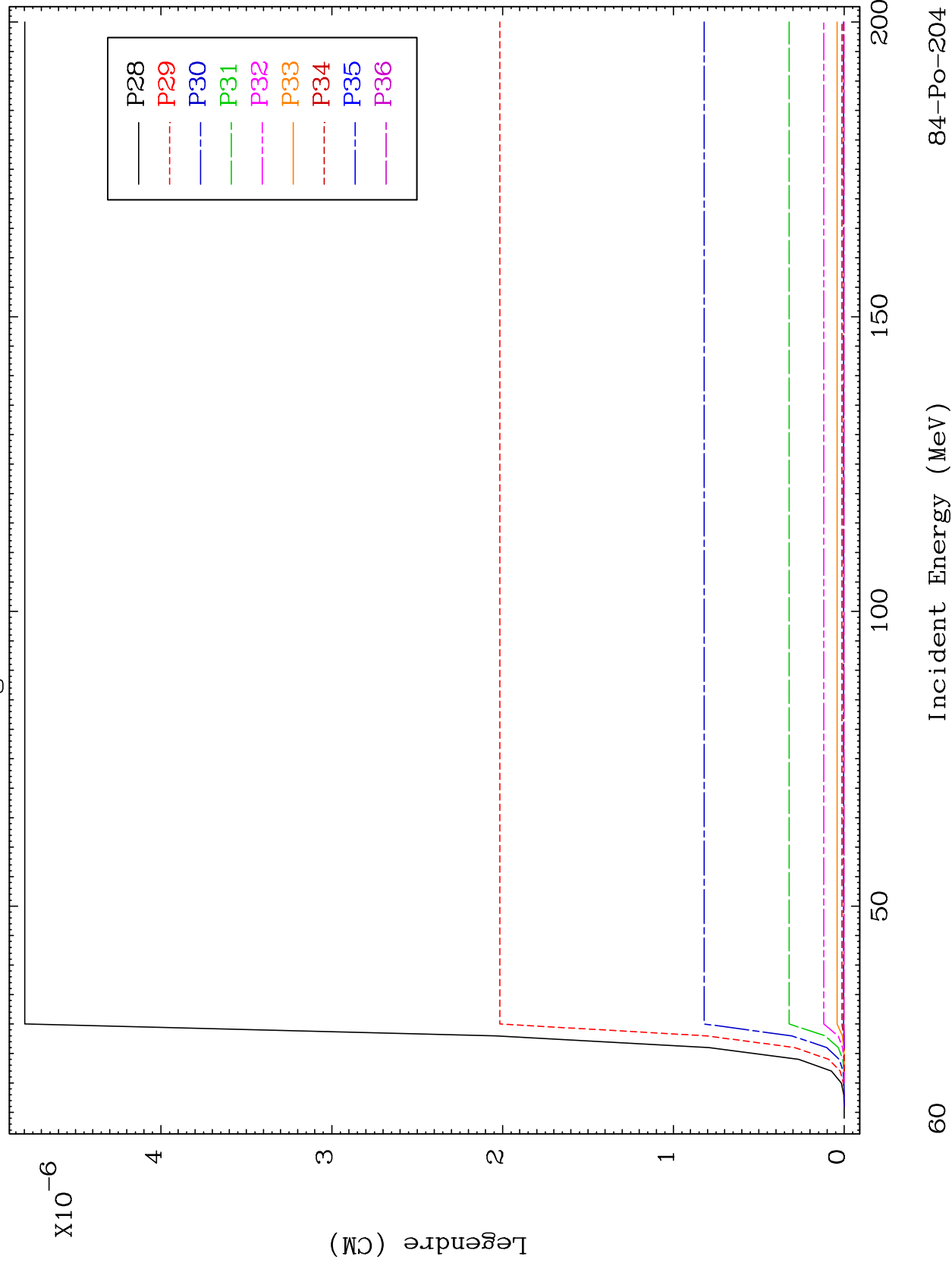
58



MAT 8419

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

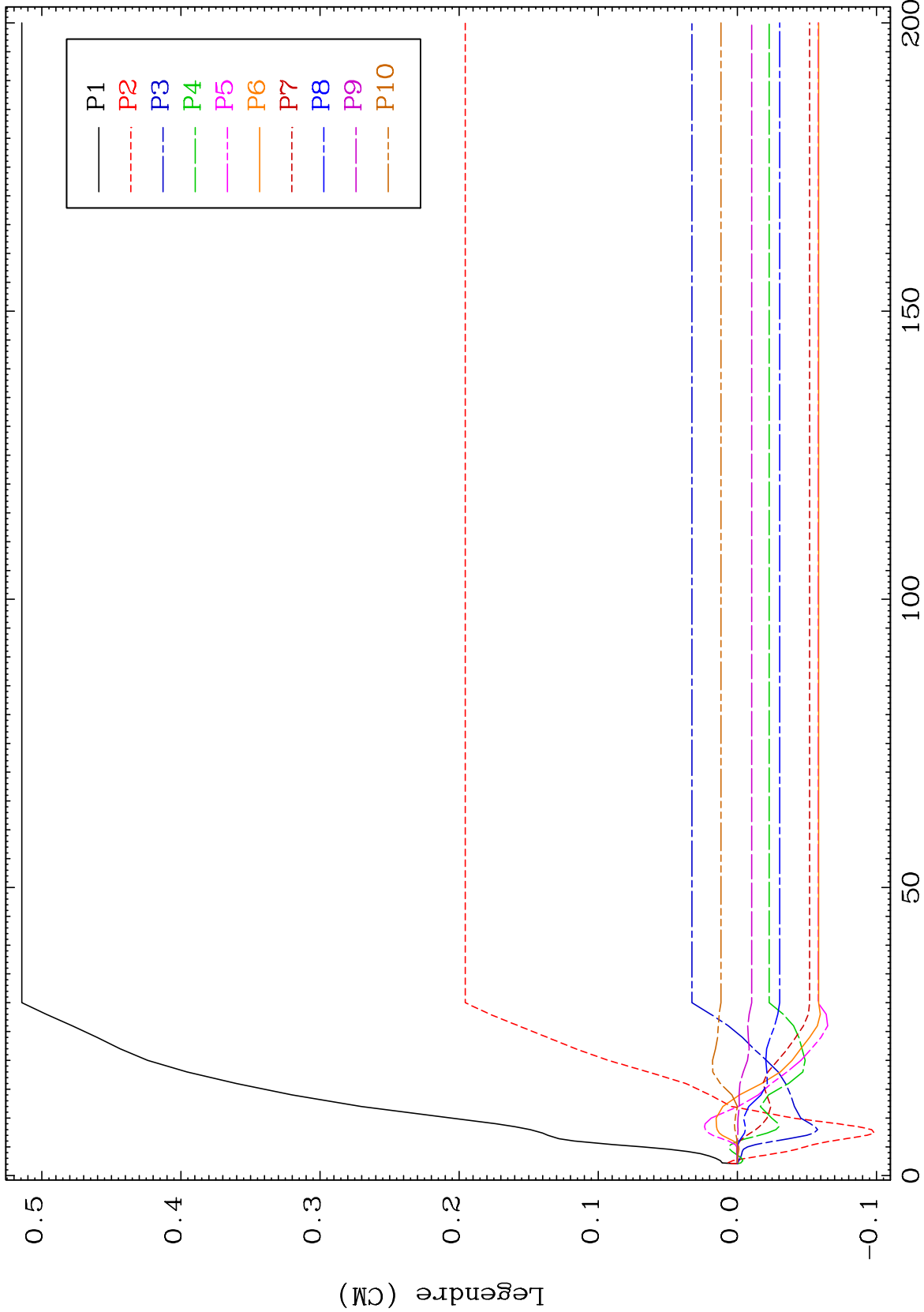
84-Po-204



MAT 8419

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

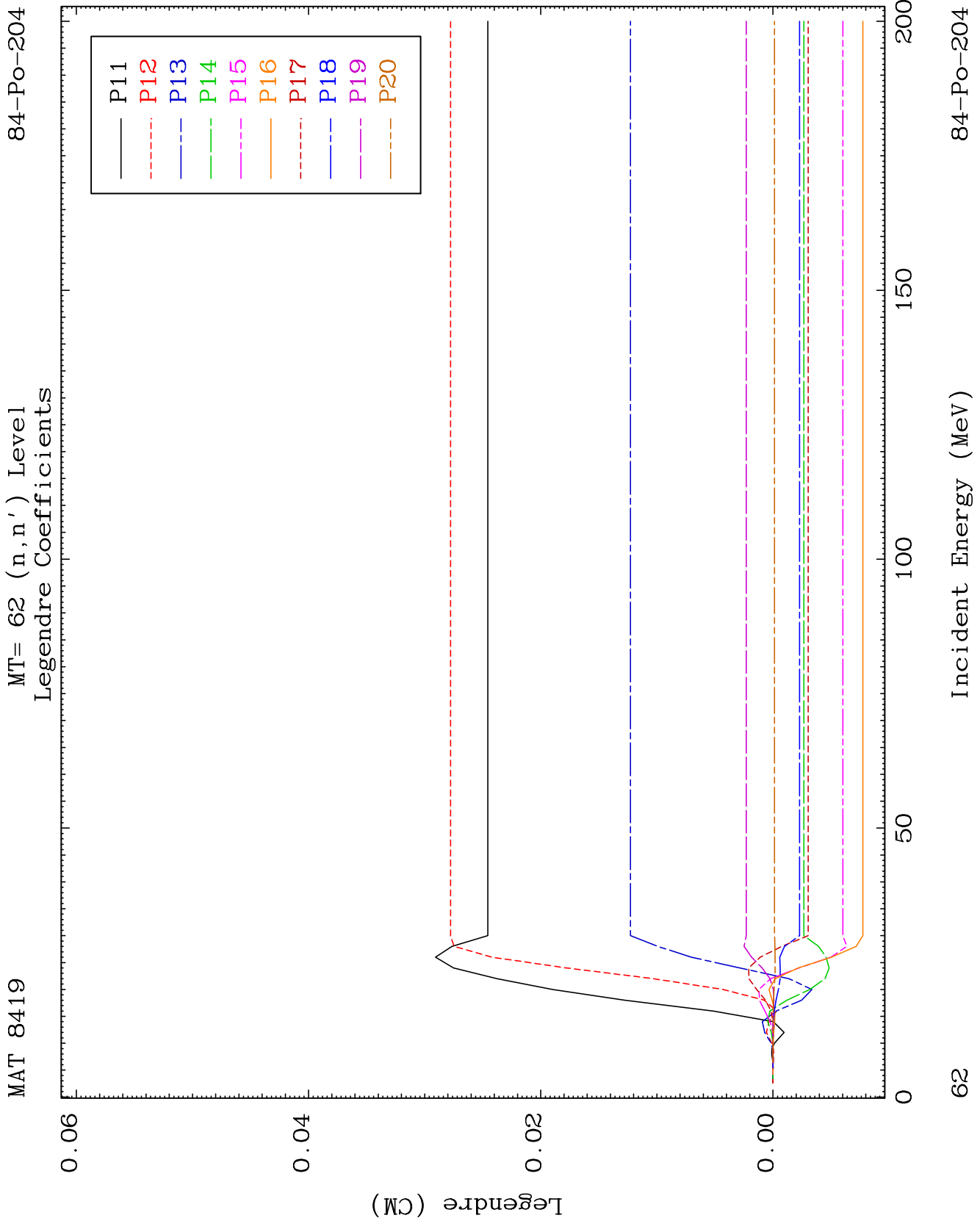
84-Po-204



61

Incident Energy (MeV)

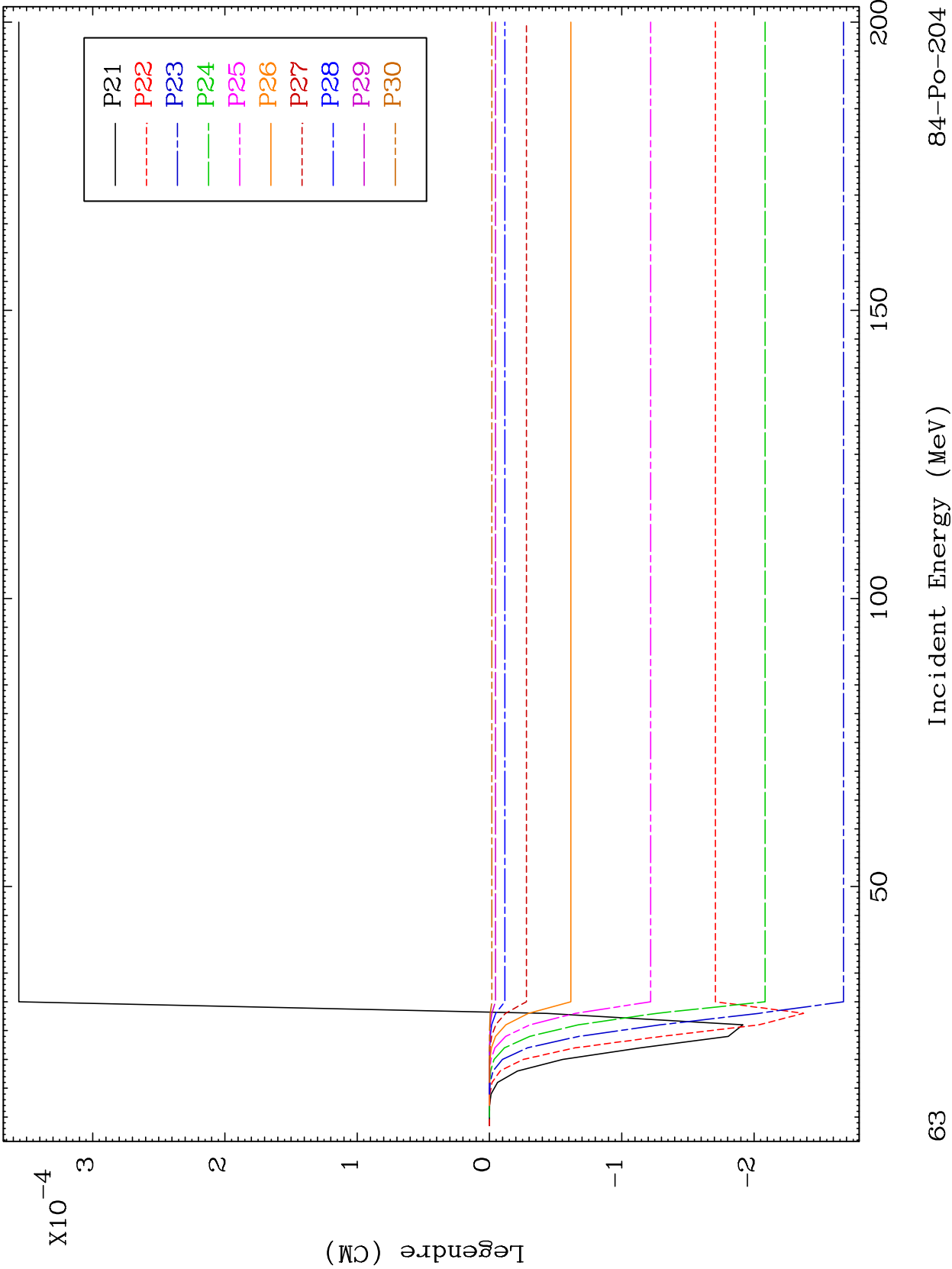
84-Po-204



MAT 8419

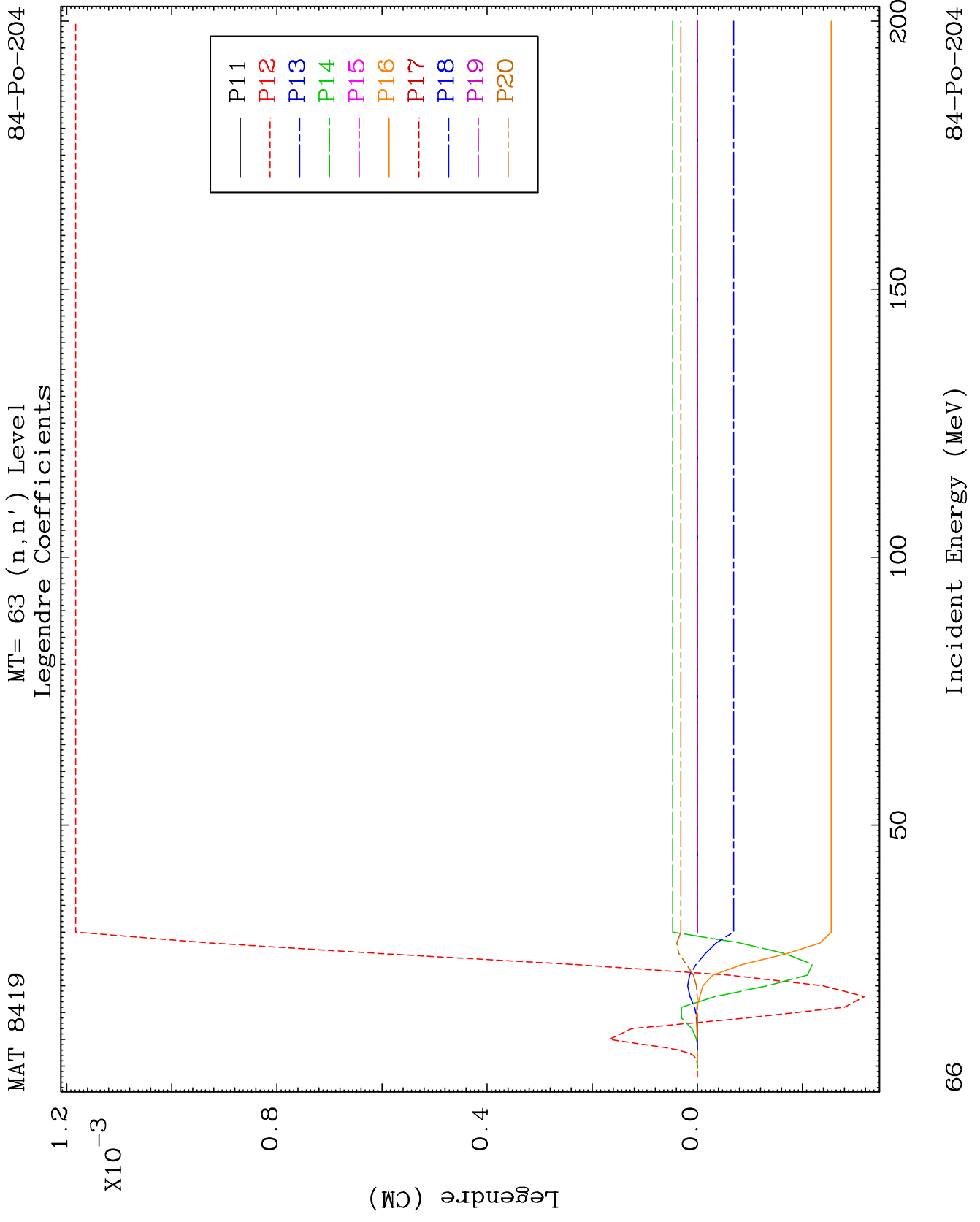
MT= 62 (n,n') Level
Legendre Coefficients

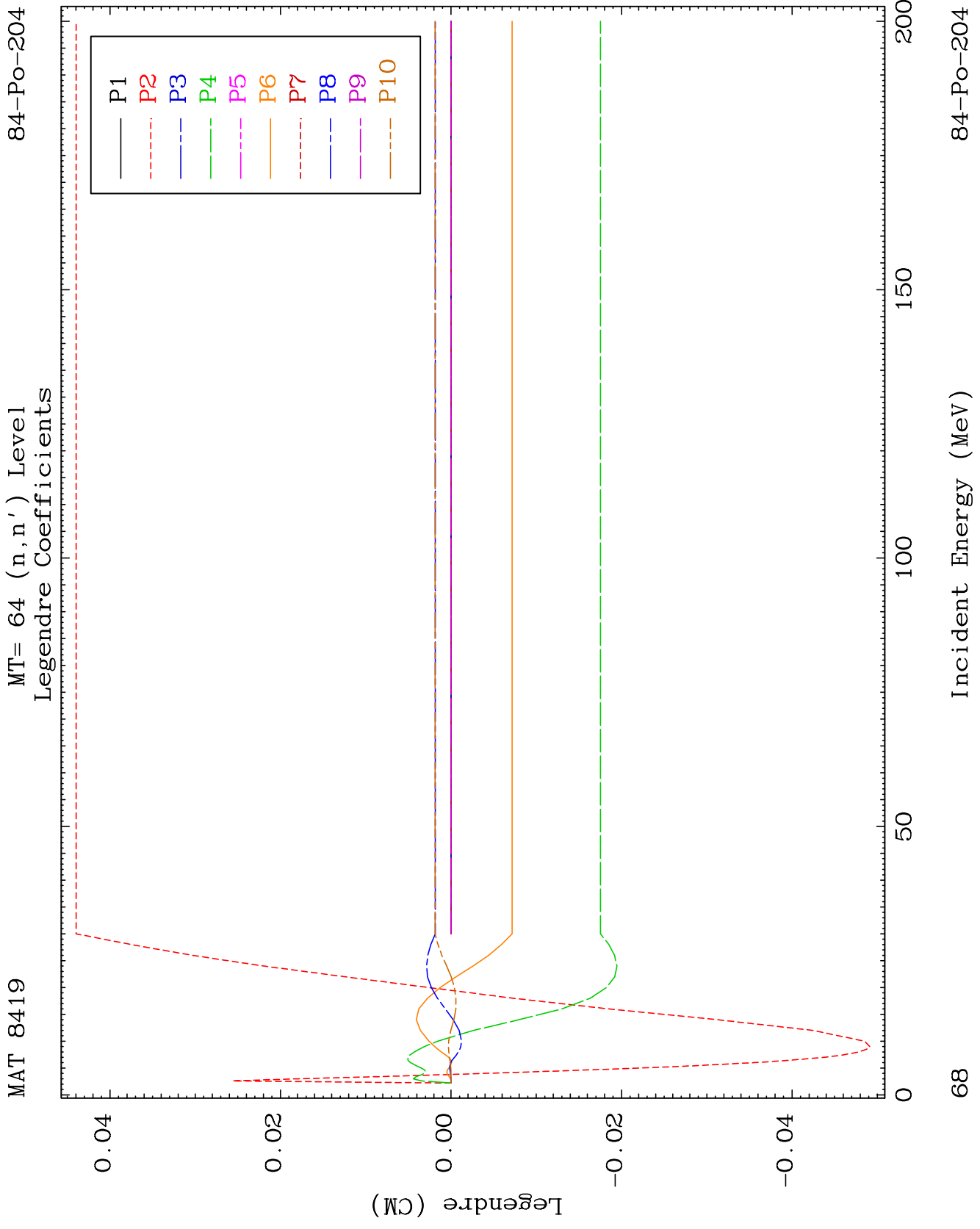
84-Po-204



63

84-Po-204

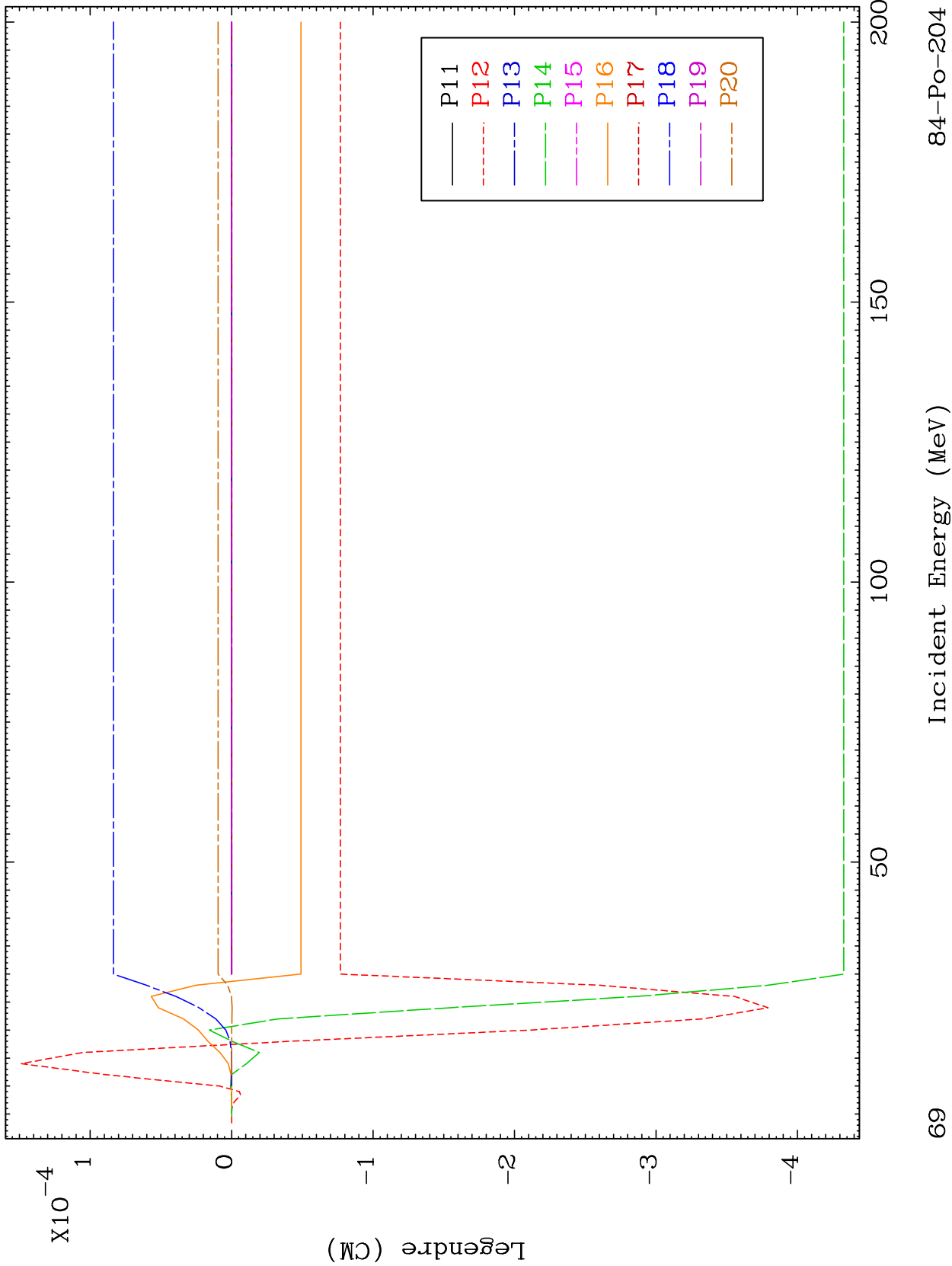




MAT 8419

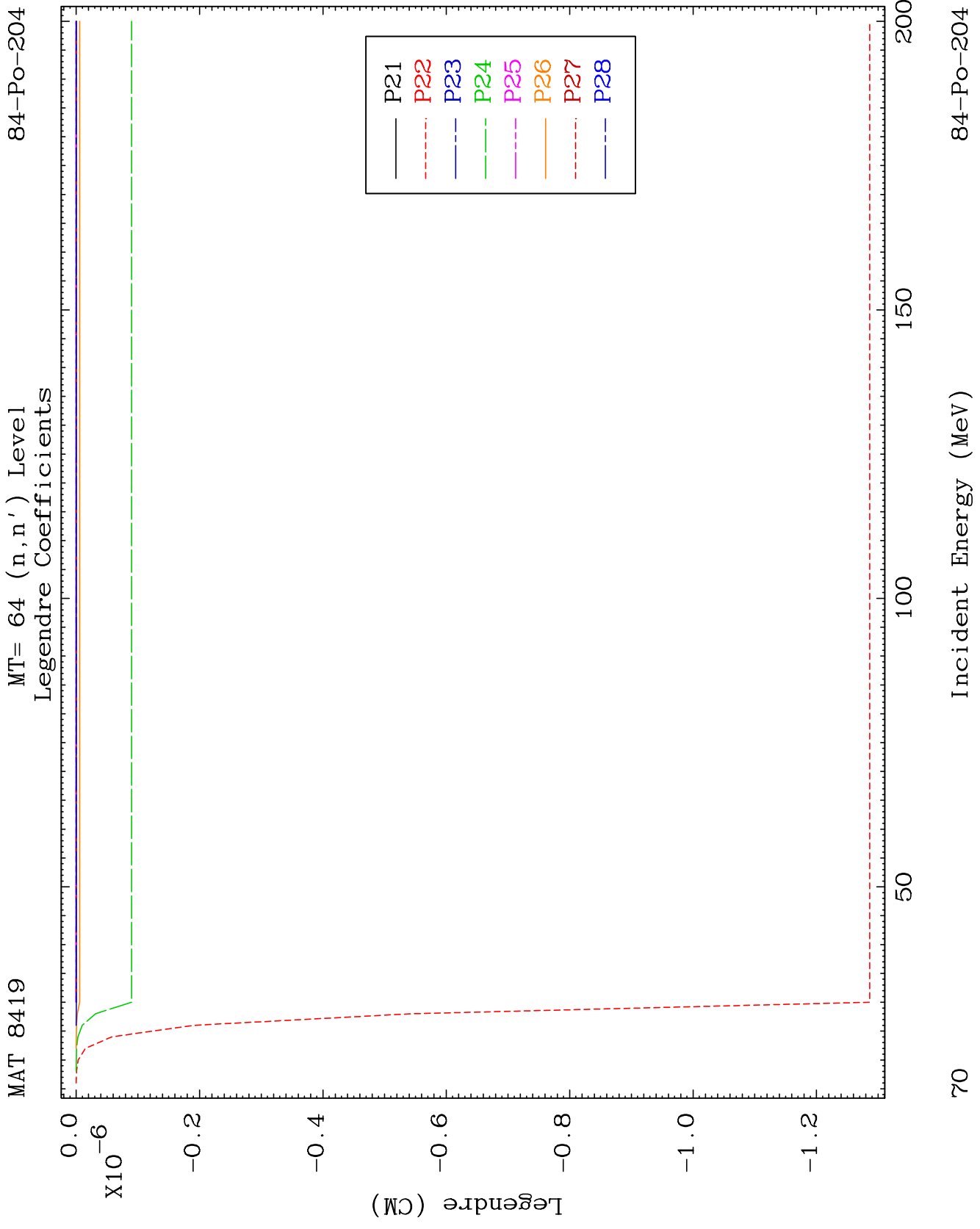
MT= 64 (n,n') Level
Legendre Coefficients

84-Po-204



69

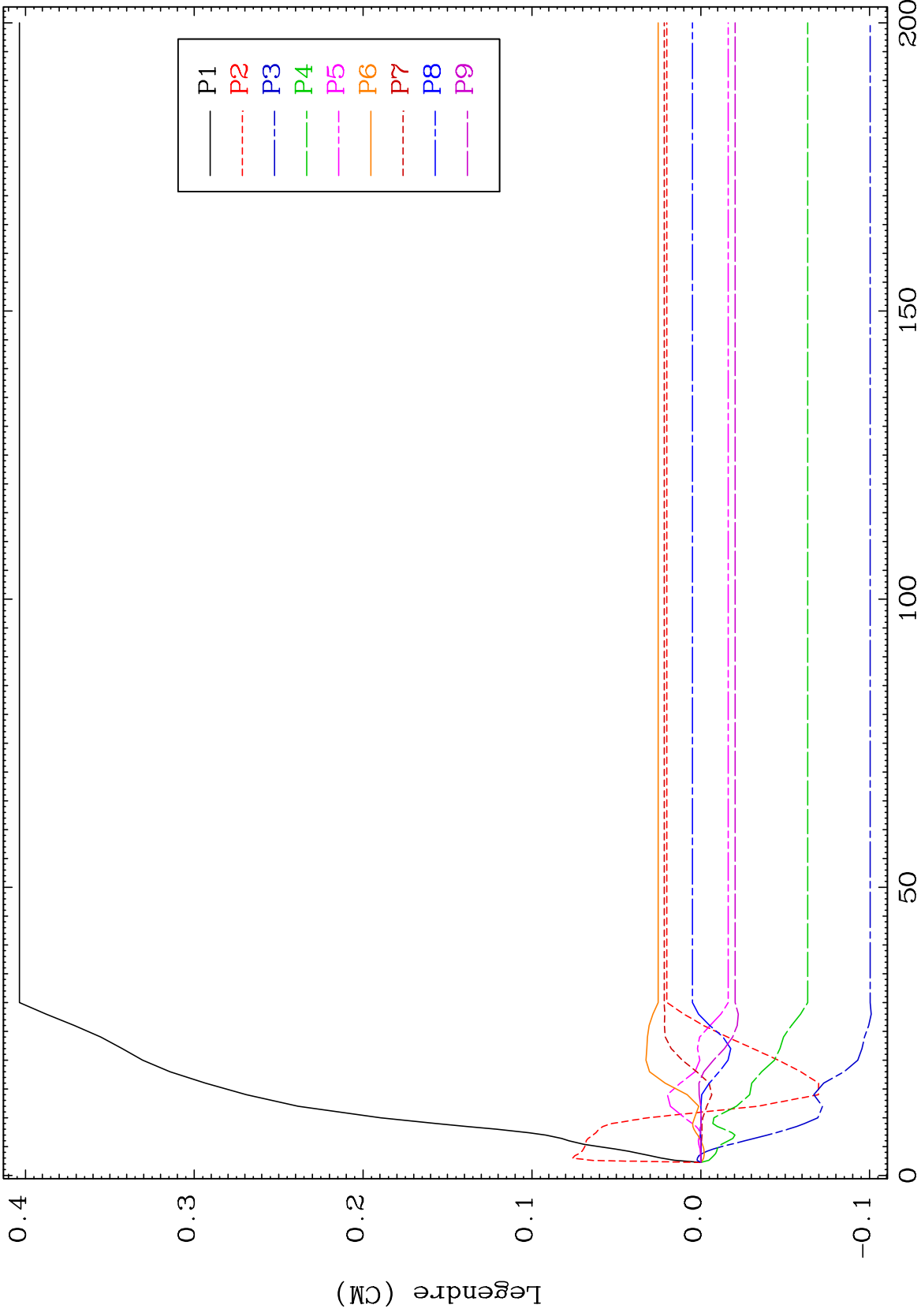
84-Po-204



MAT 8419

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

84-Po-204



71

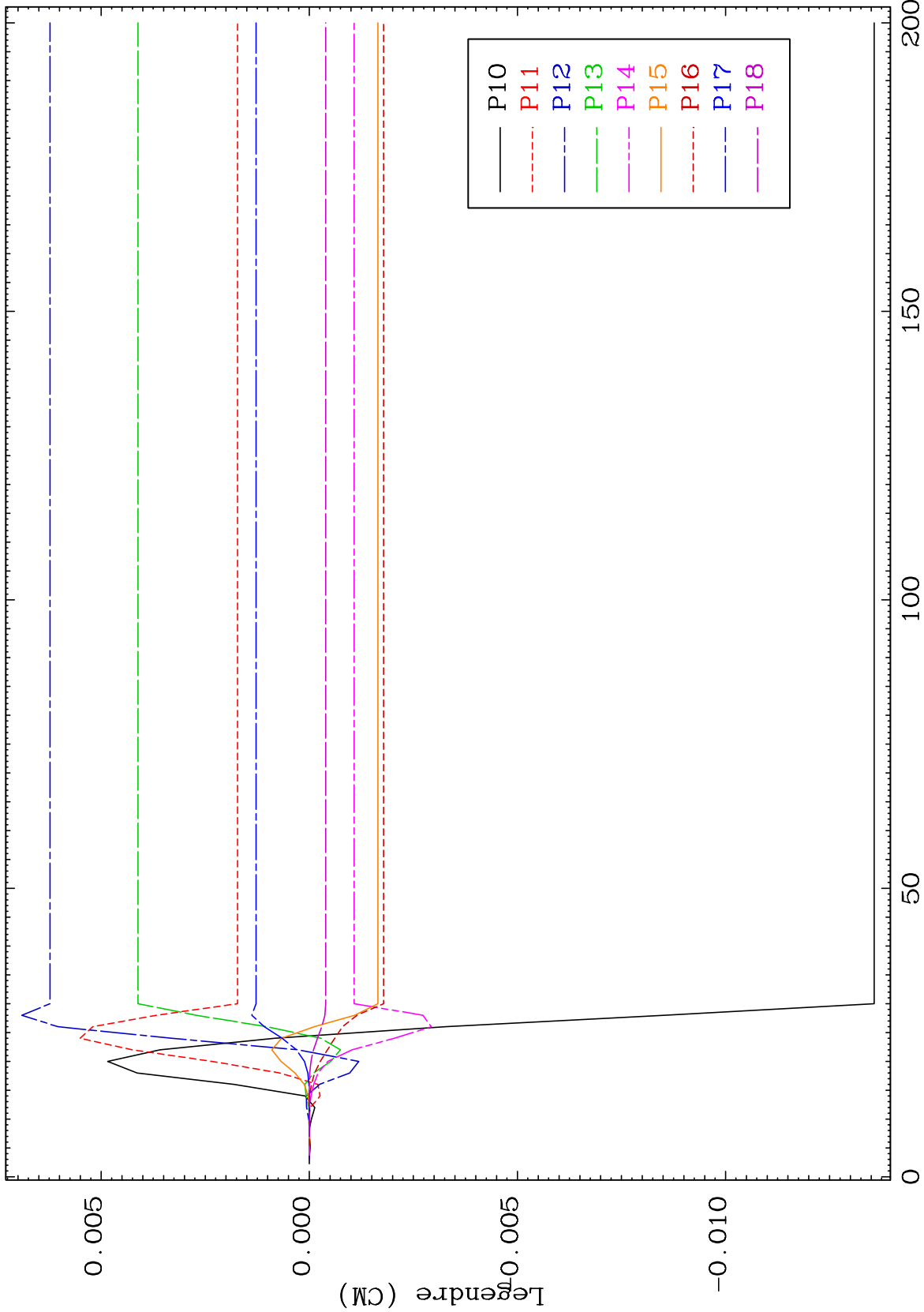
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



72

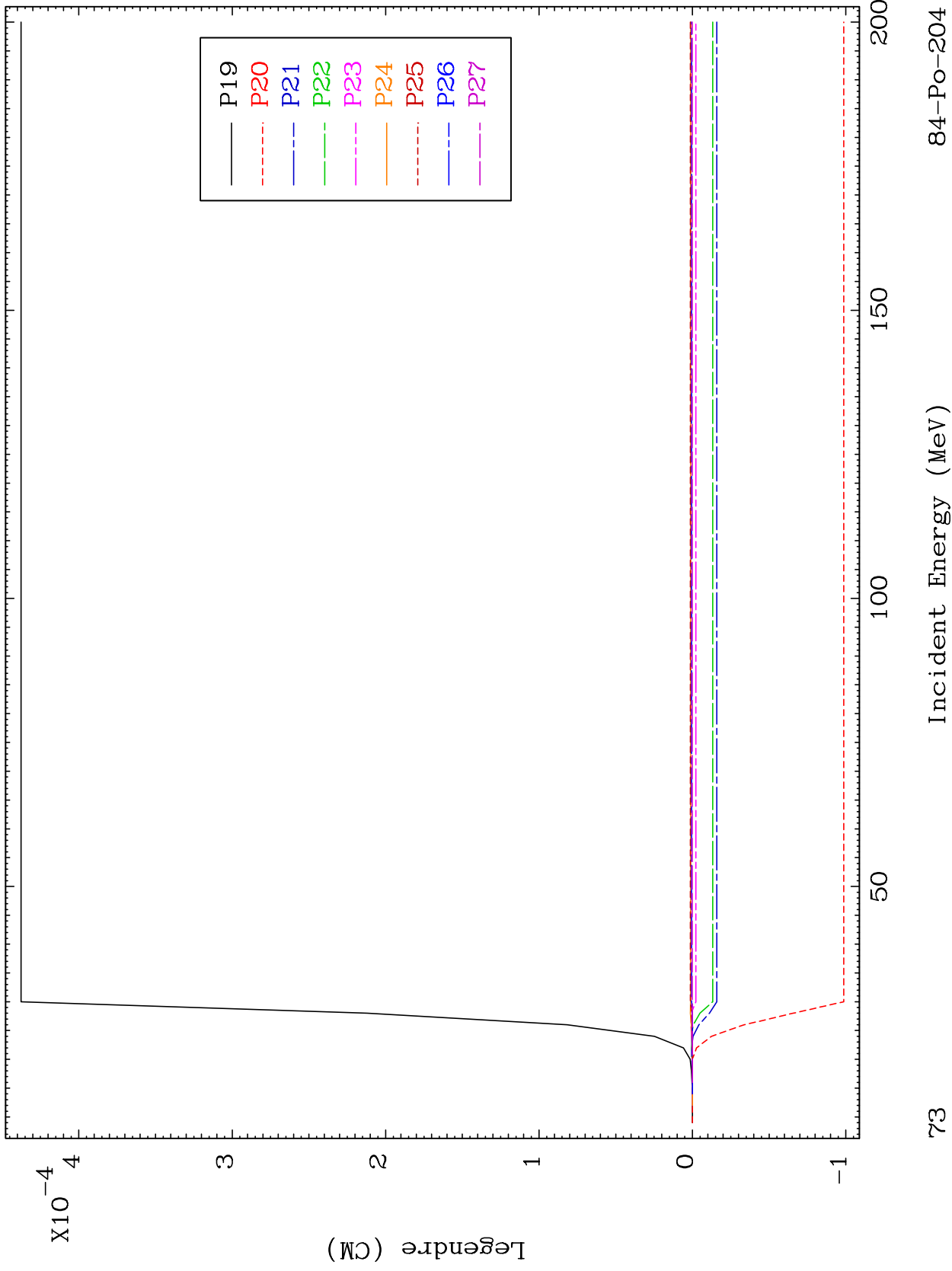
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



73

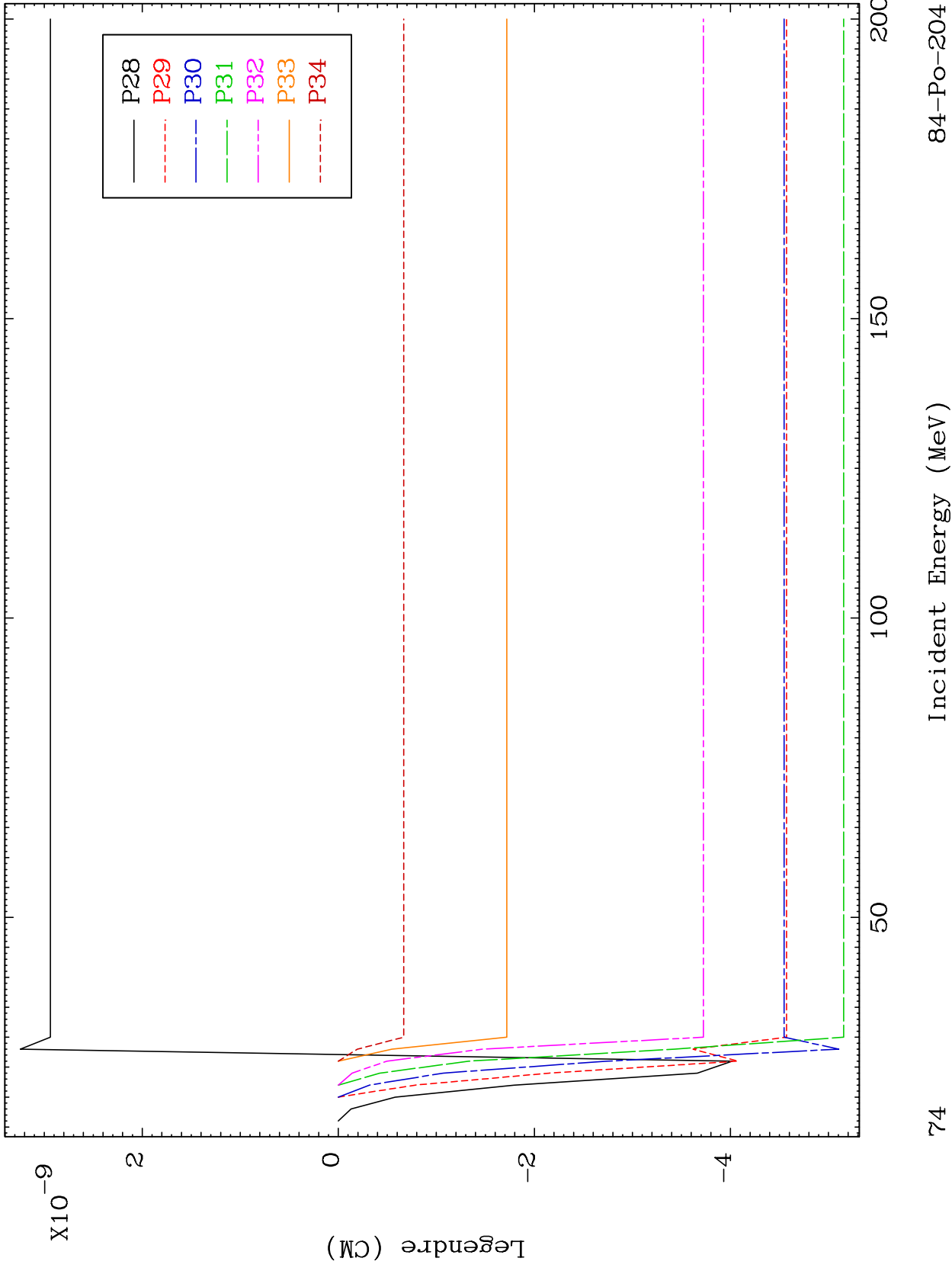
Incident Energy (MeV)

84-Po-204

MAT 8419

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

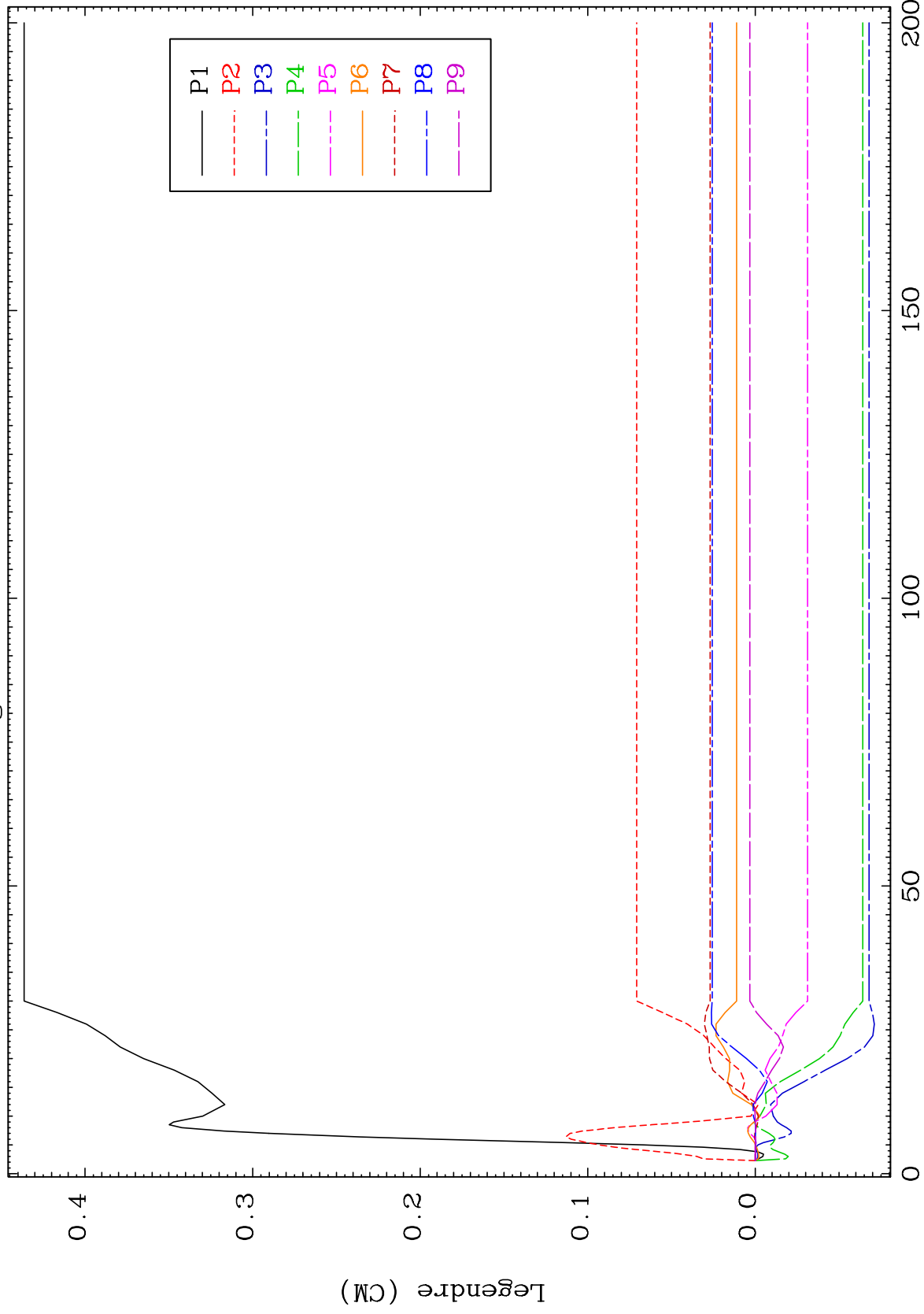
84-Po-204



MAT 8419

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

84-Po-204



84-Po-204

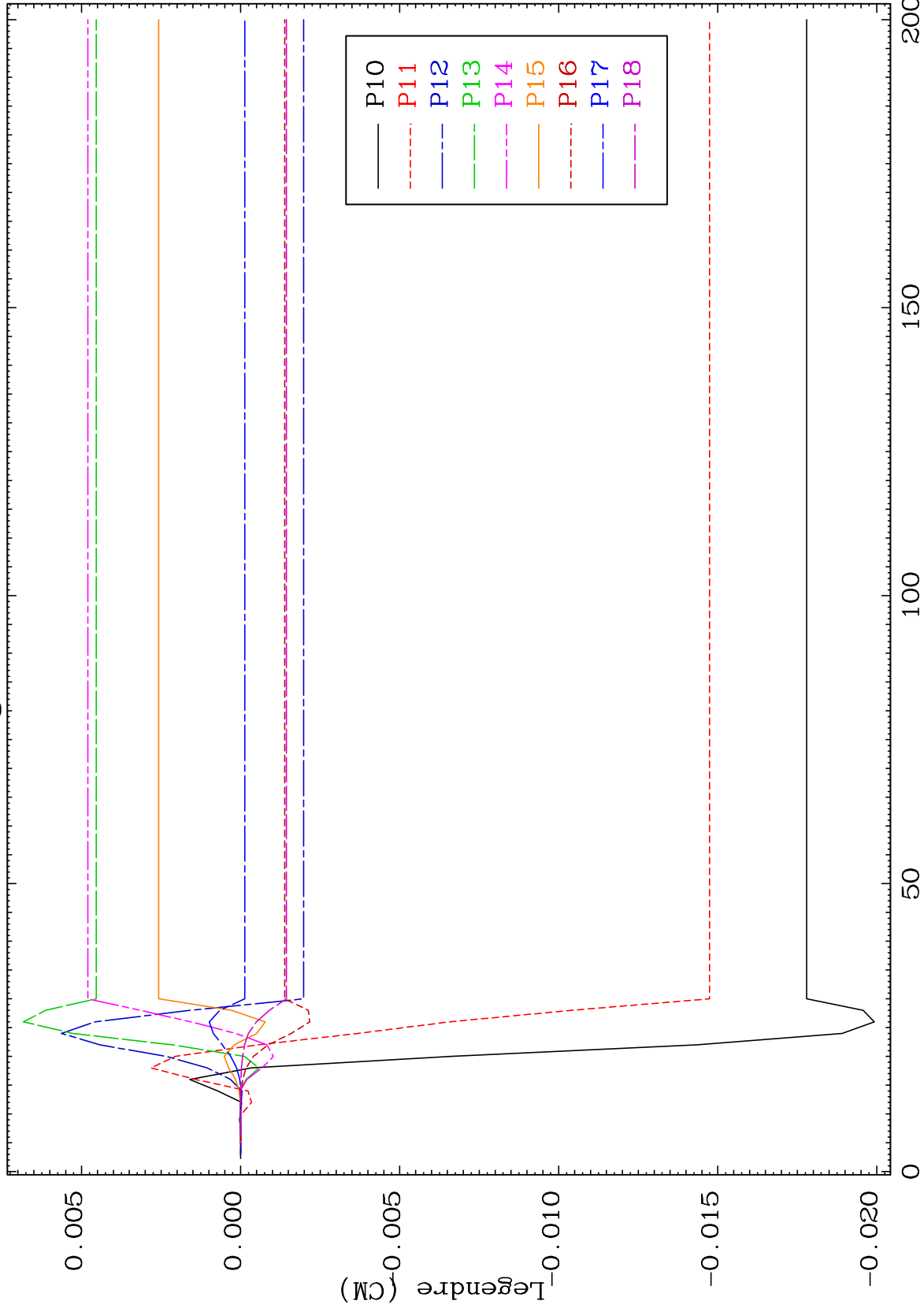
Incident Energy (MeV)

75

MAT 8419

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

84-Po-204



76

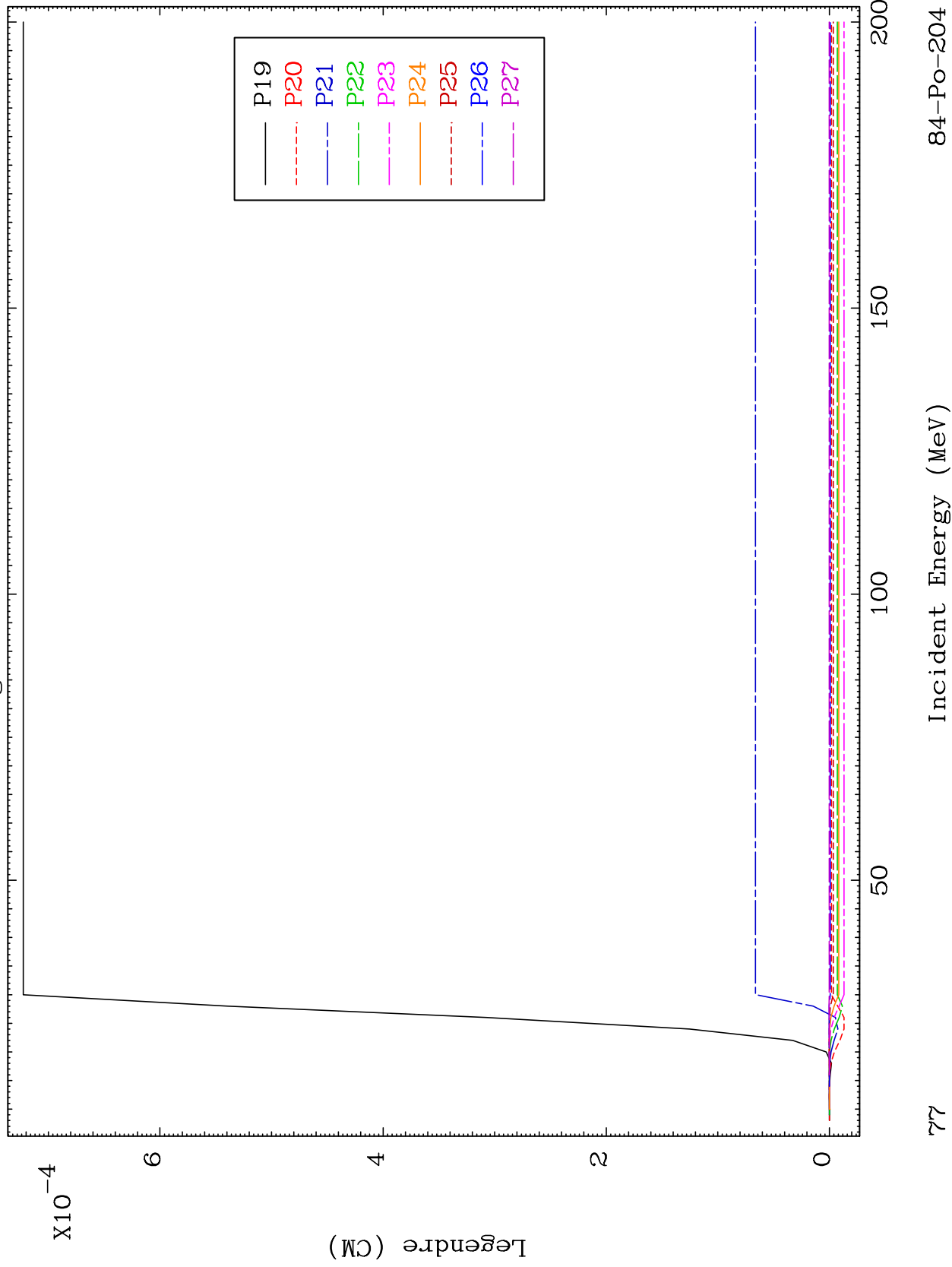
Incident Energy (MeV)

84-Po-204

MAT 8419

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

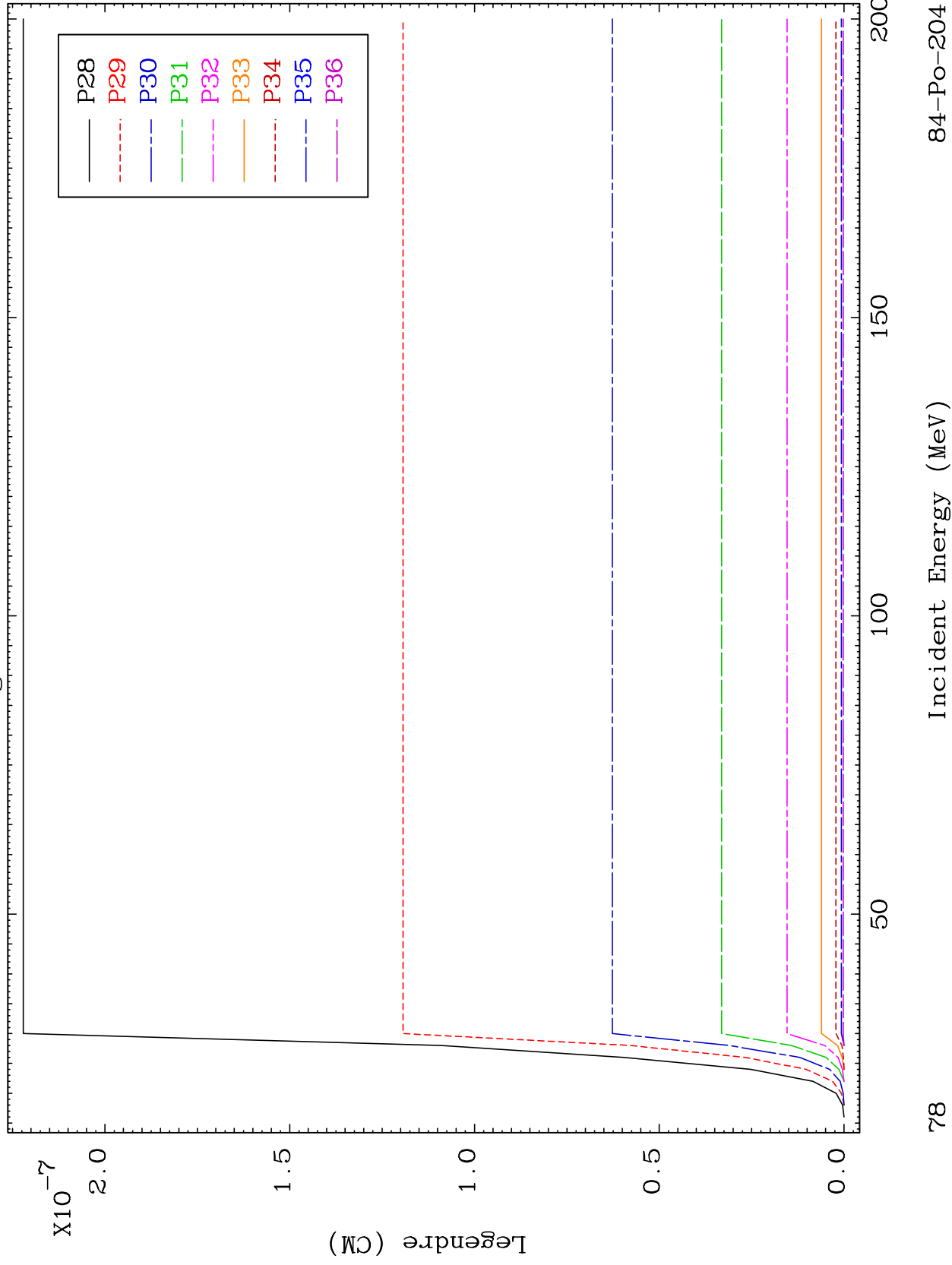
84-Po-204



MAT 8419

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

84-Po-204



78

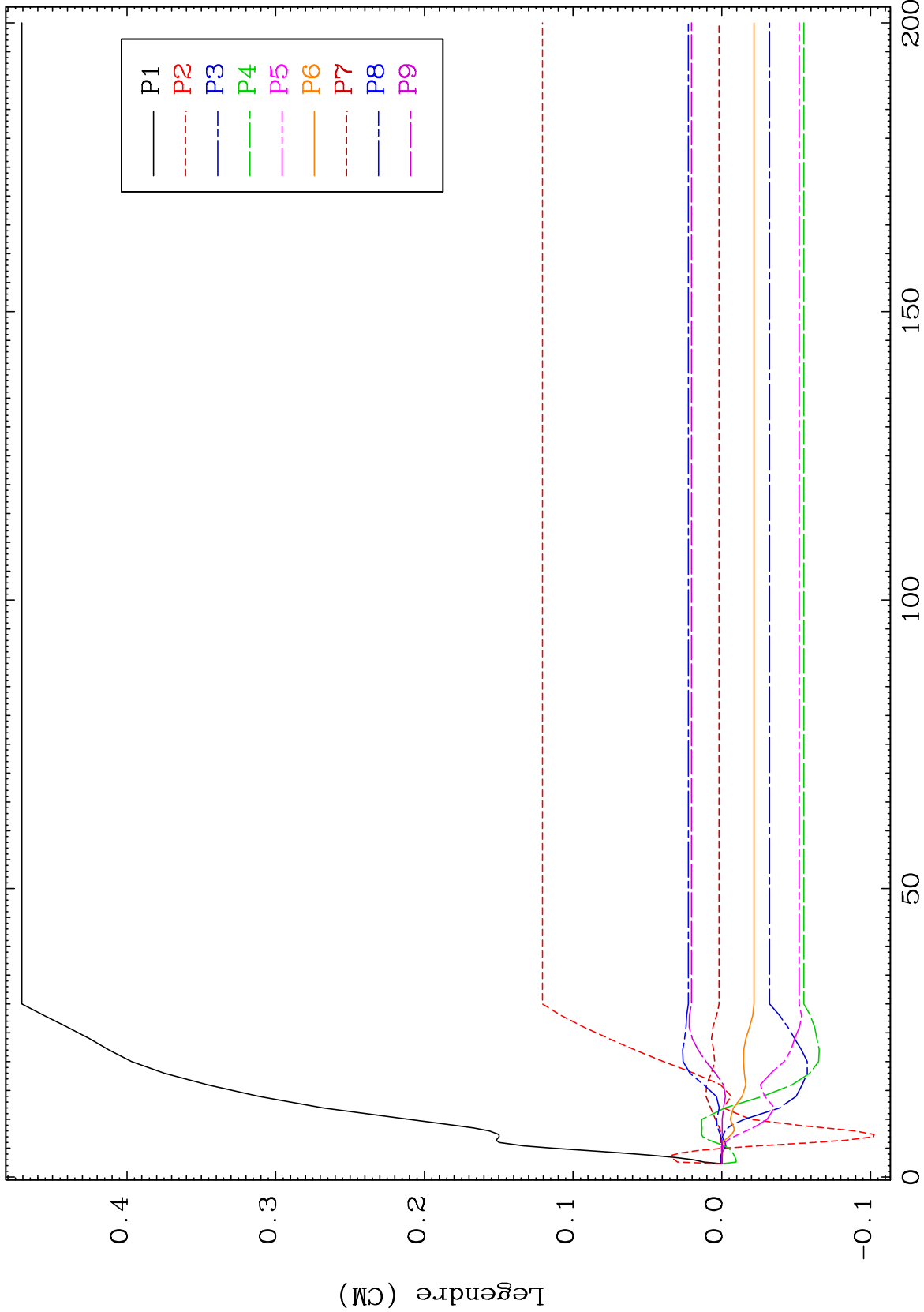
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



79

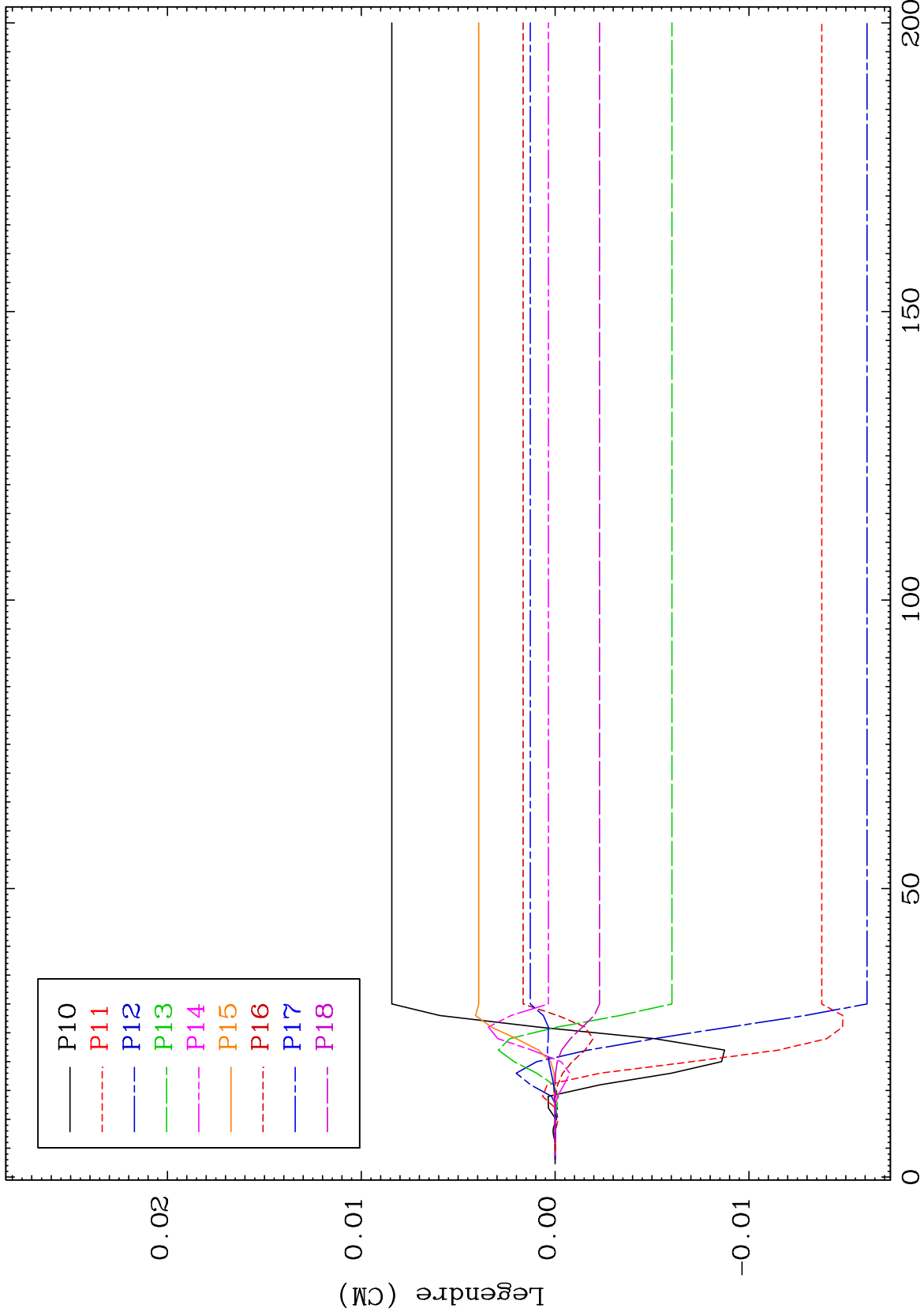
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



84-Po-204

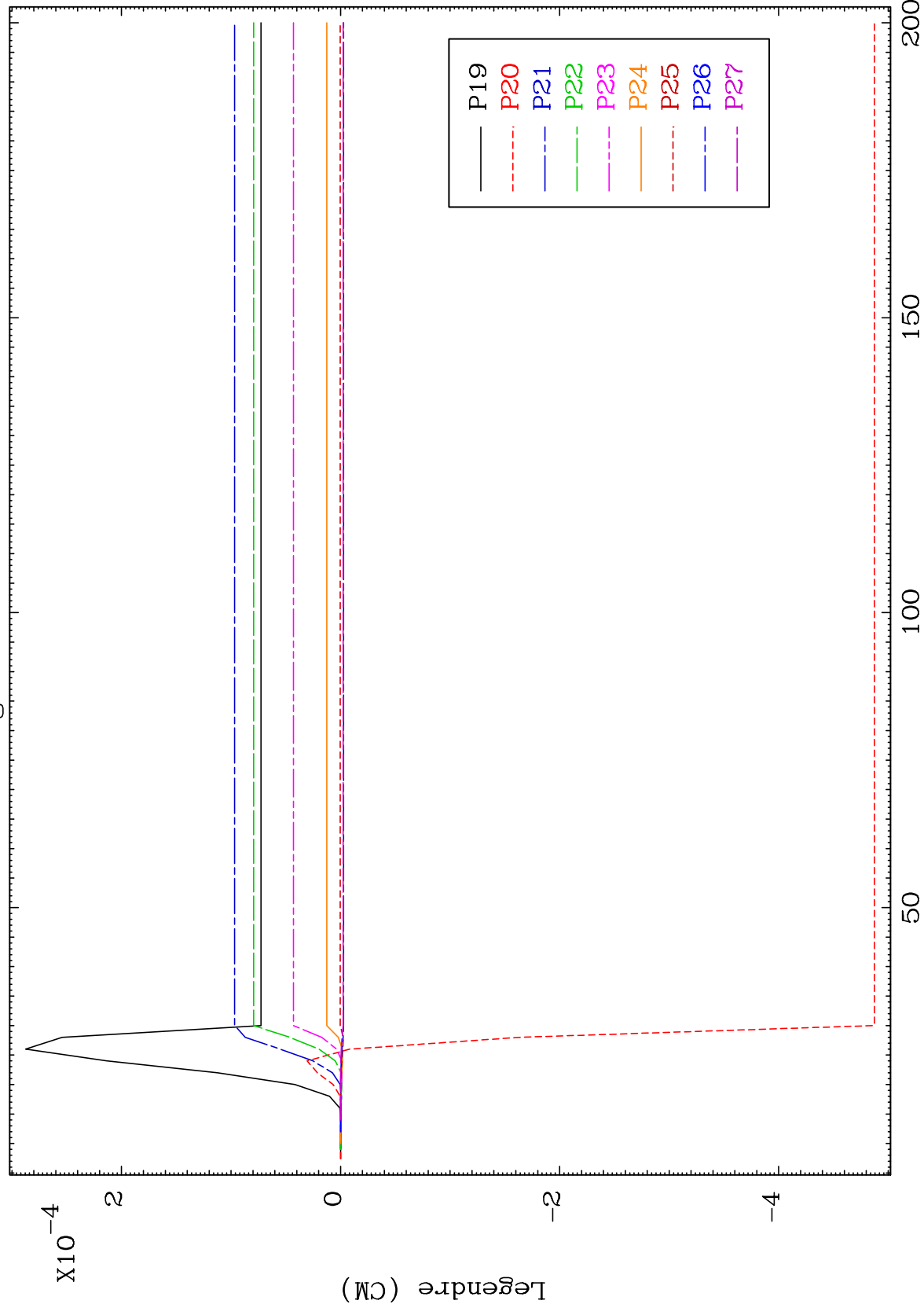
Incident Energy (MeV)

80

MAT 8419

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

84-Po-204



81

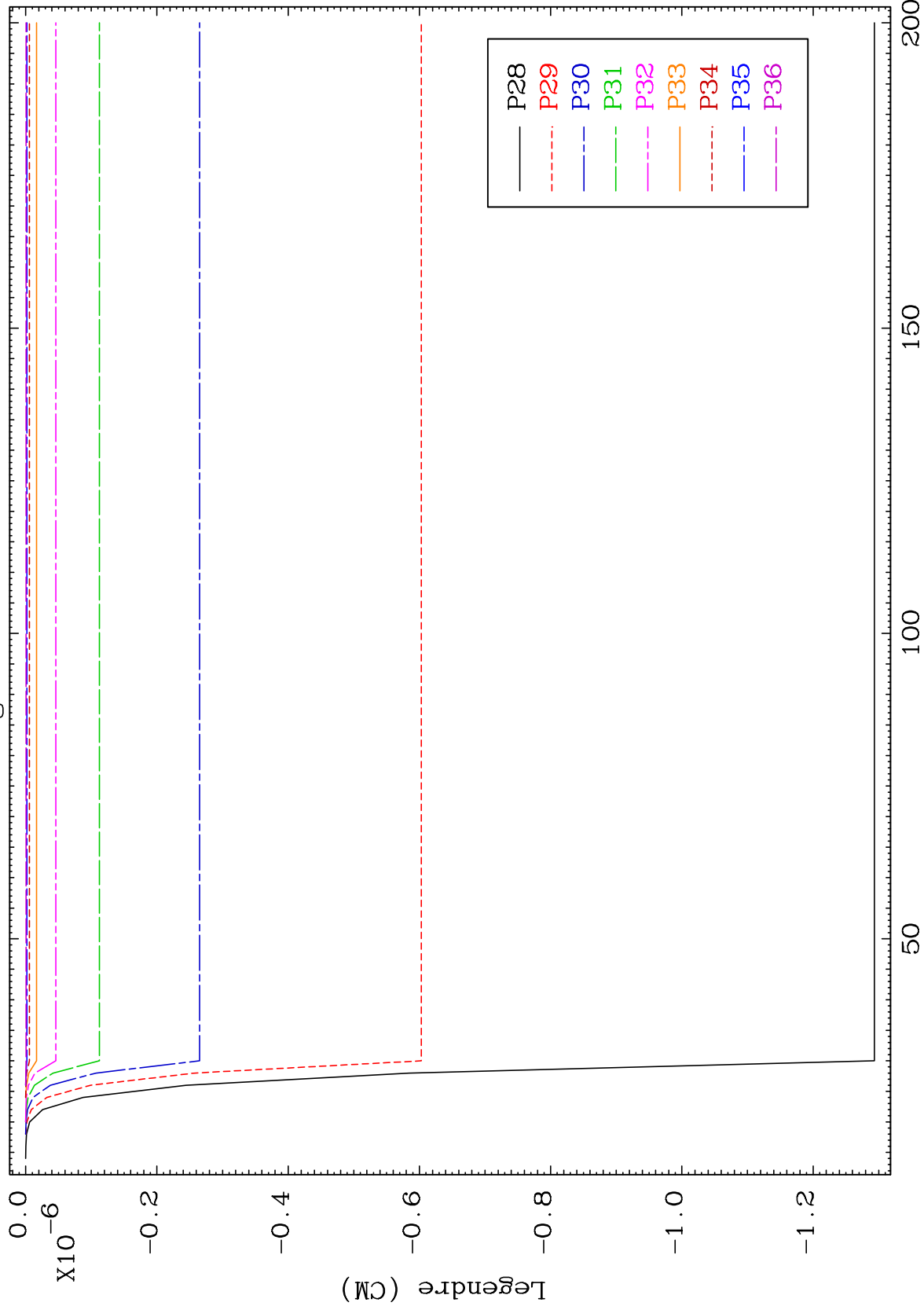
Incident Energy (MeV)

84-Po-204

MAT 8419

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

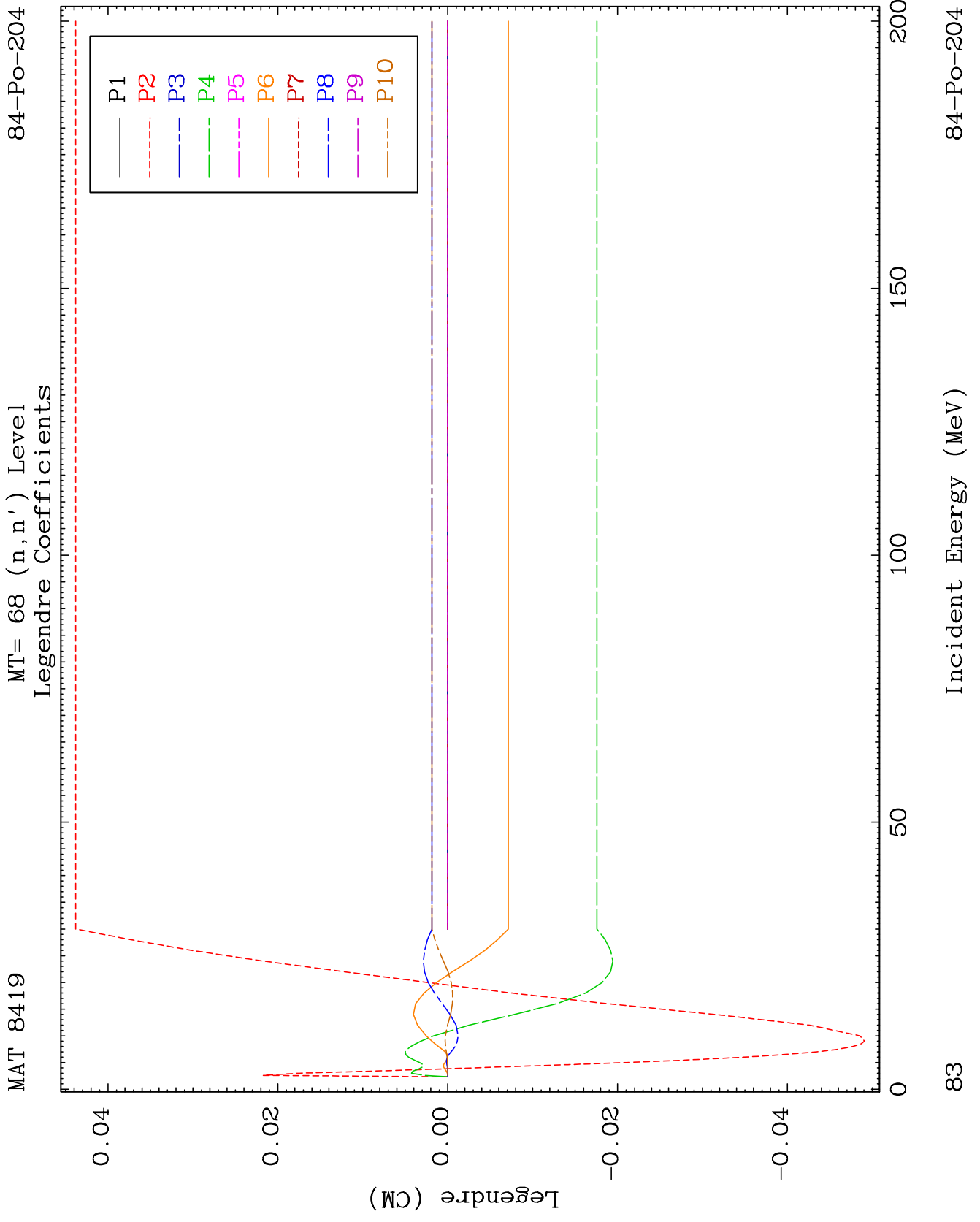
84-Po-204



82

Incident Energy (MeV)

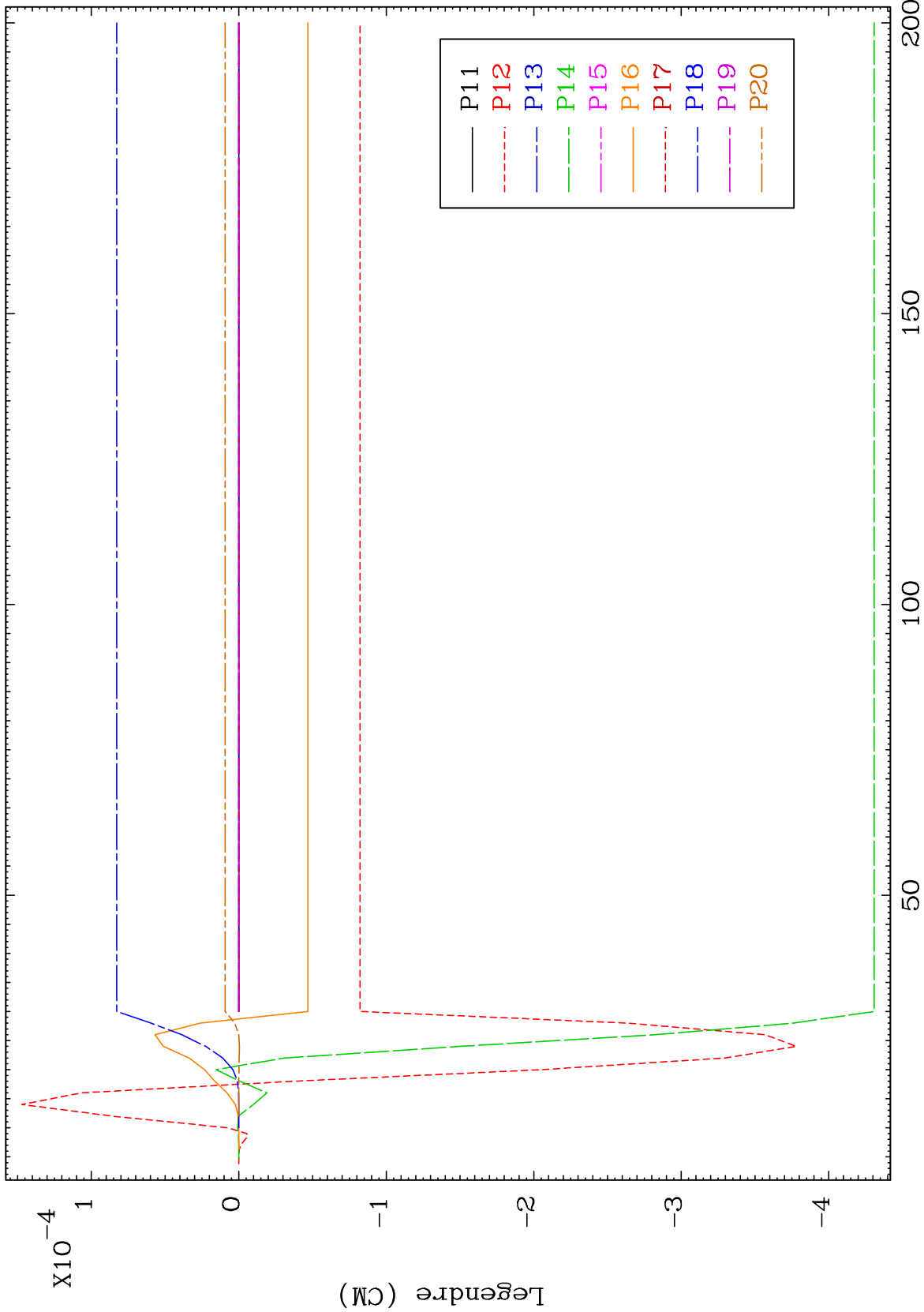
84-Po-204



MAT 8419

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

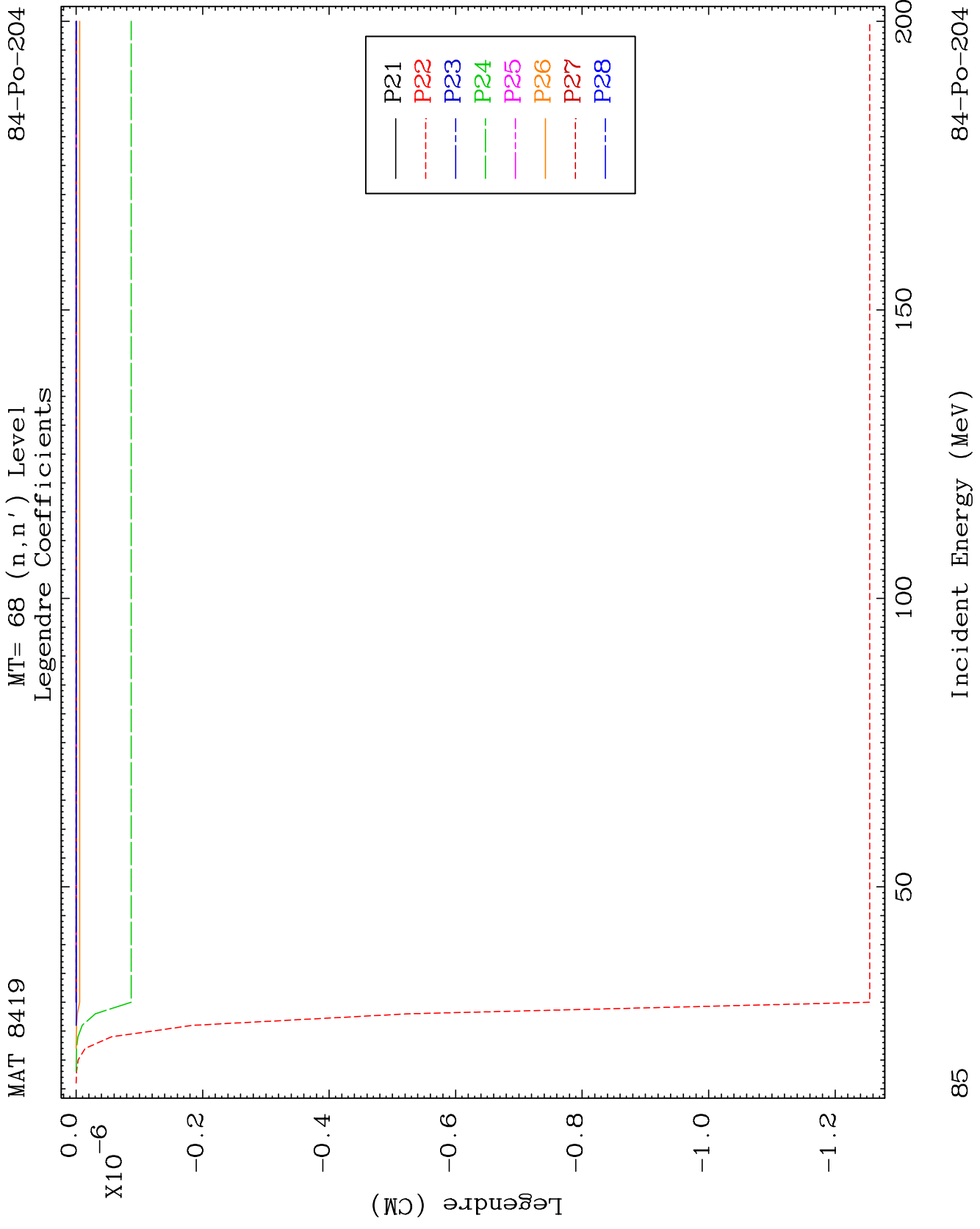
84-Po-204



84

Incident Energy (MeV)

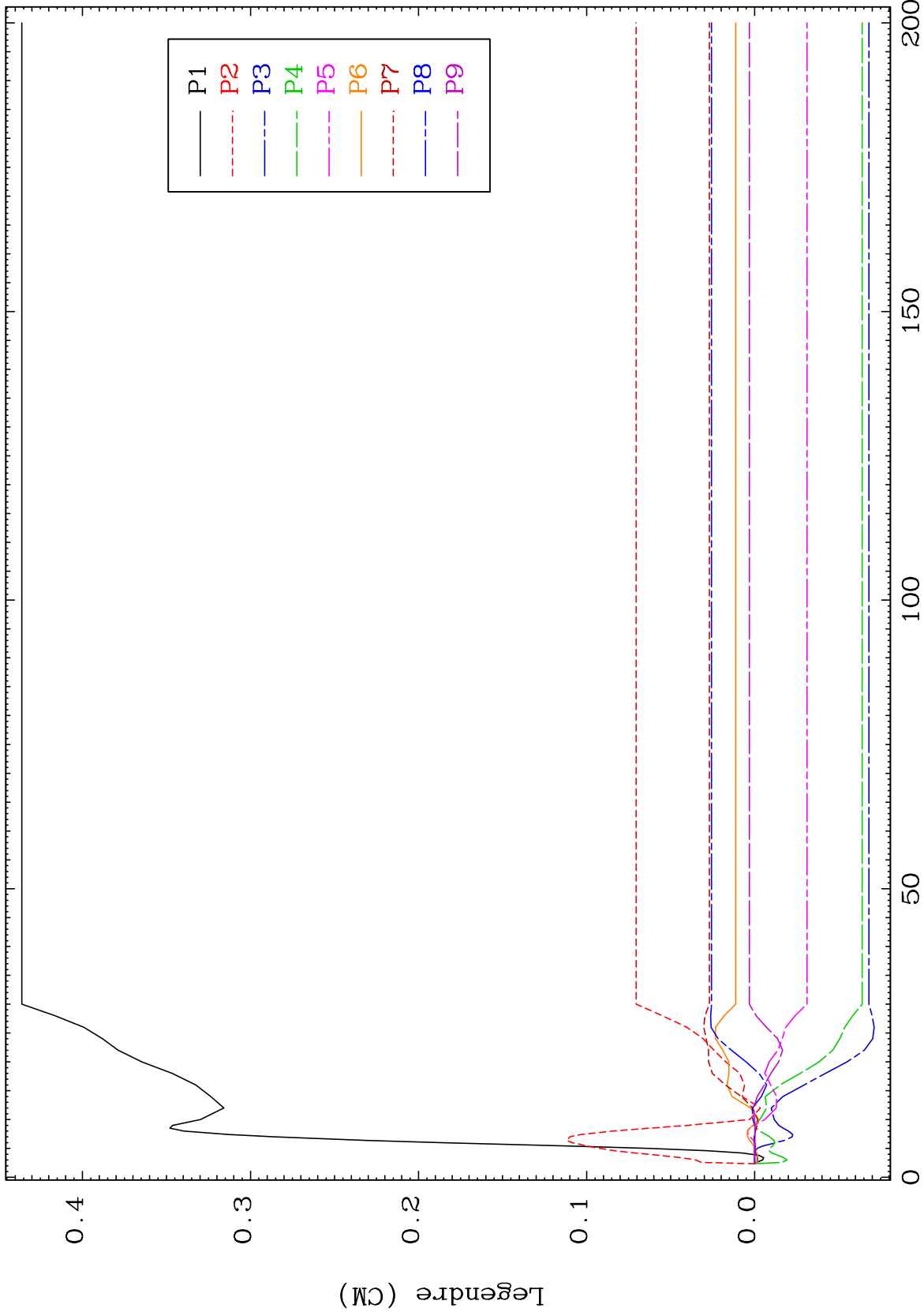
84-Po-204



MAT 8419

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

84-Po-204



86

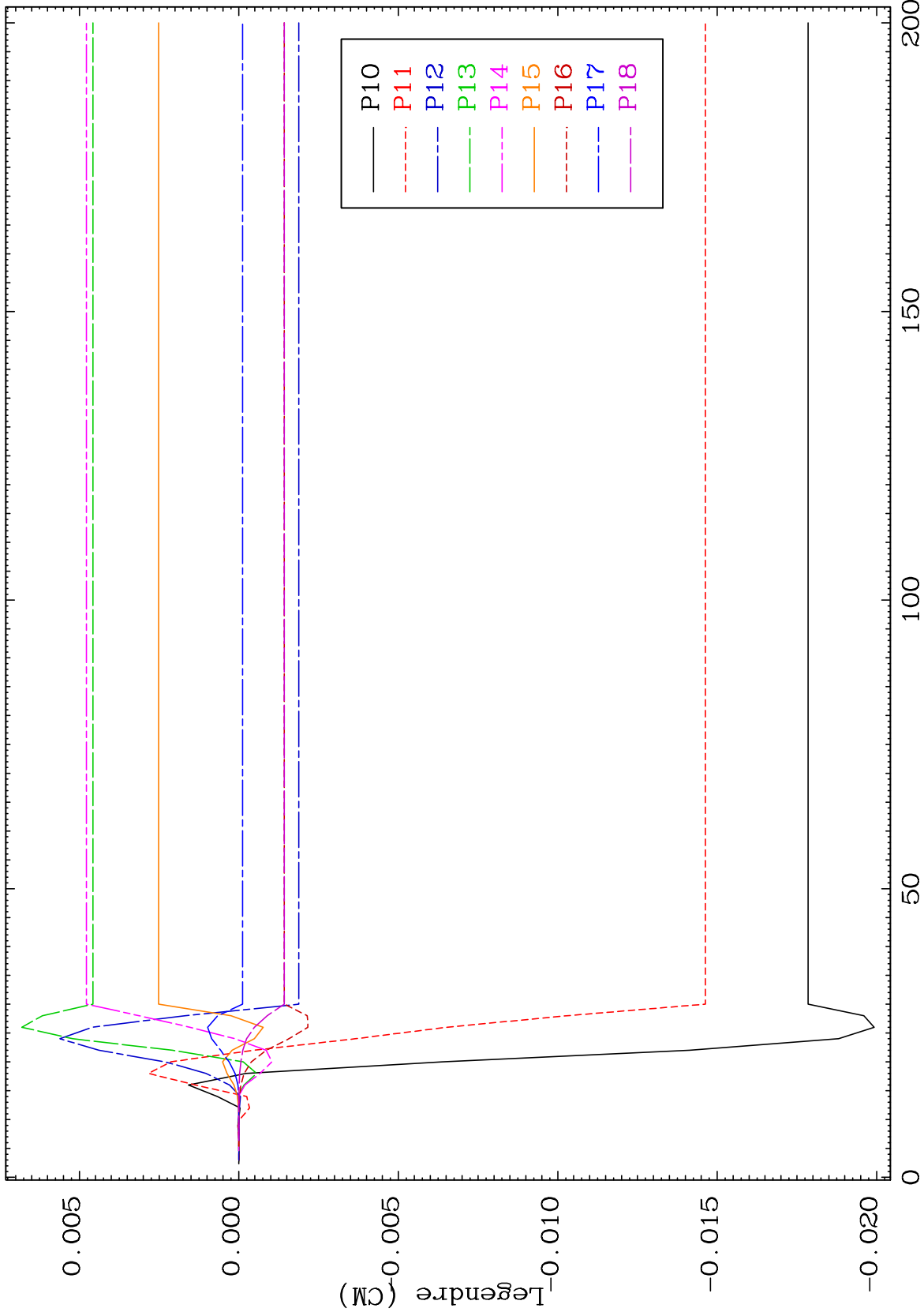
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



87

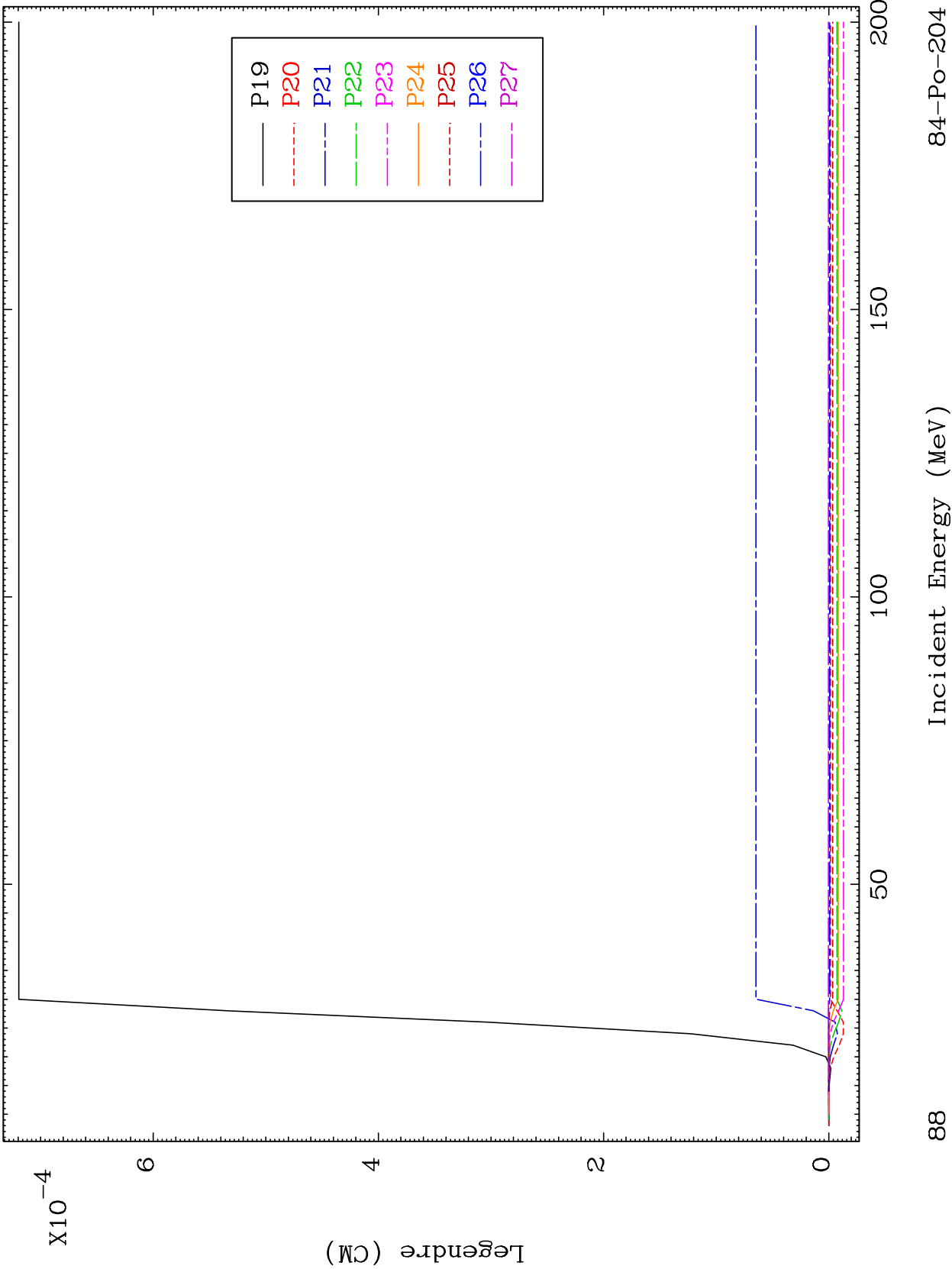
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



88

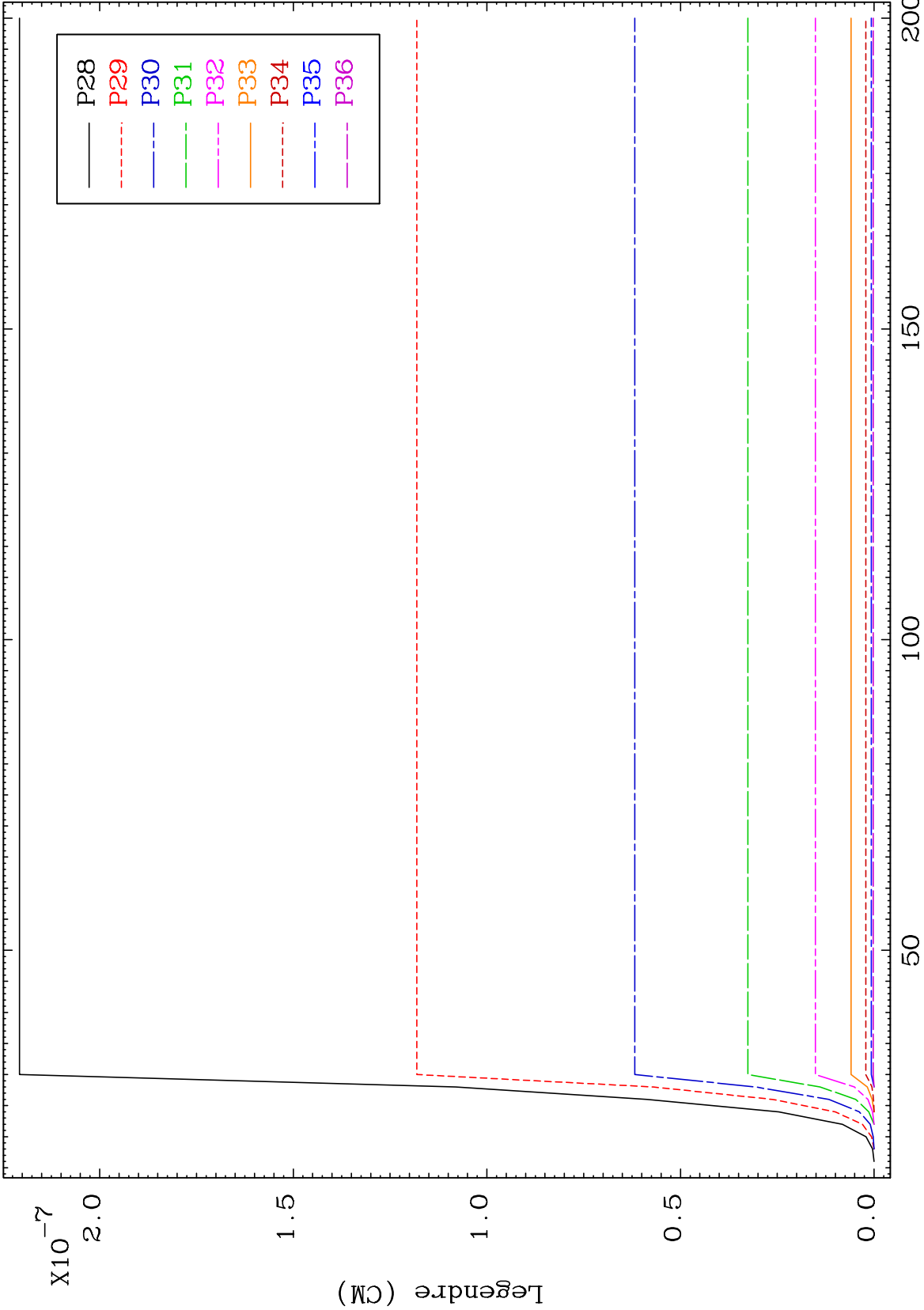
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



89

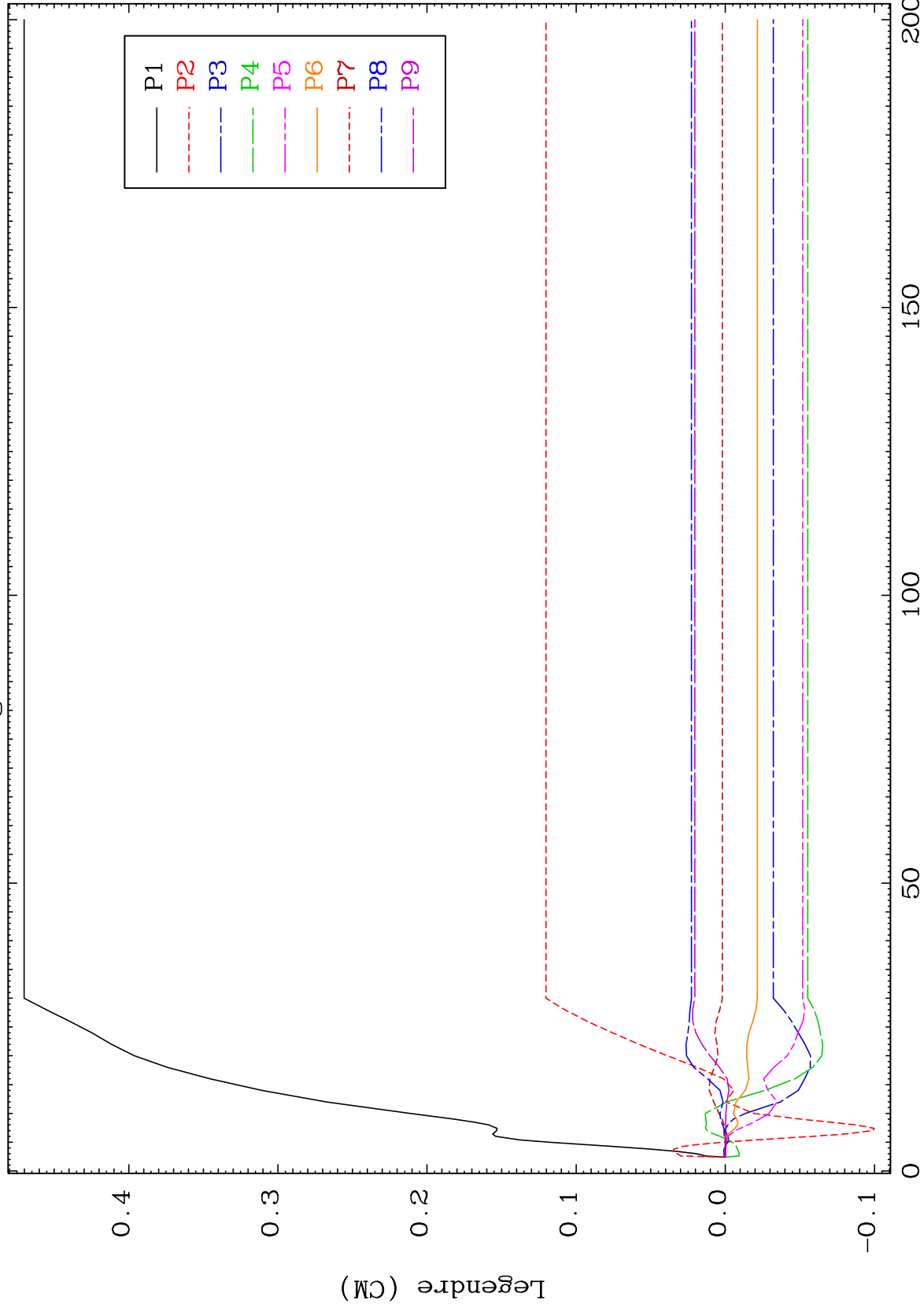
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



90

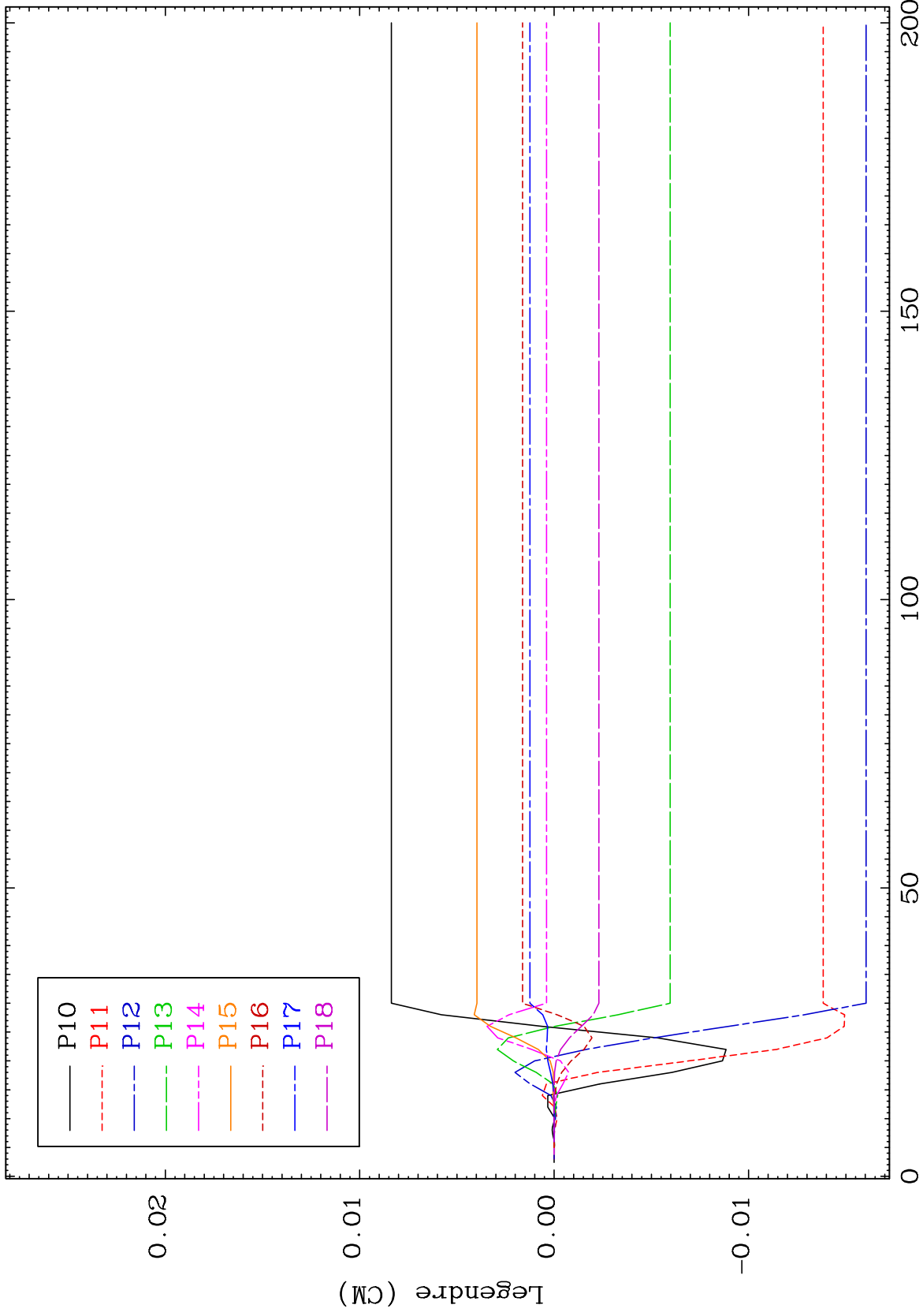
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



91

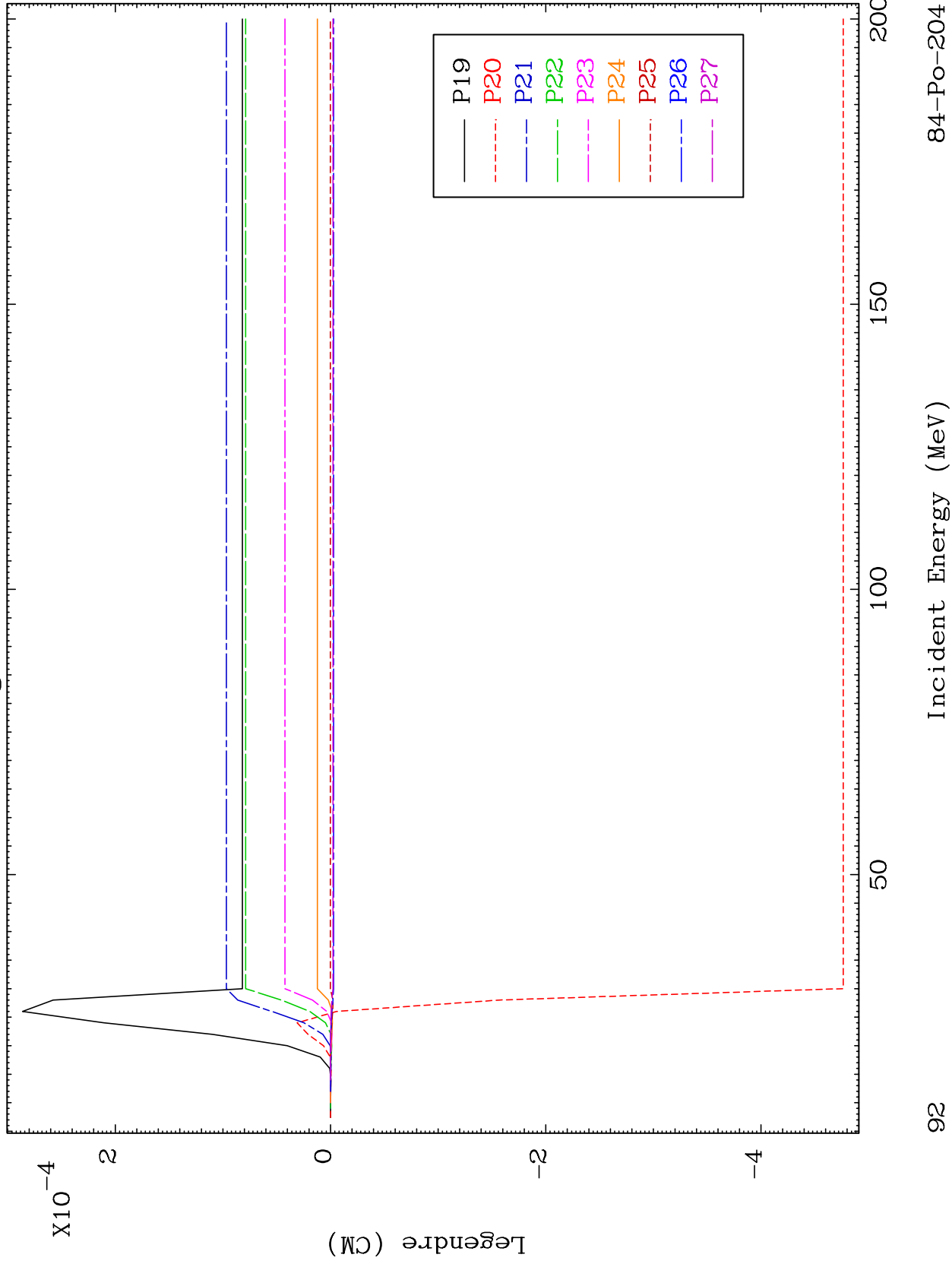
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



92

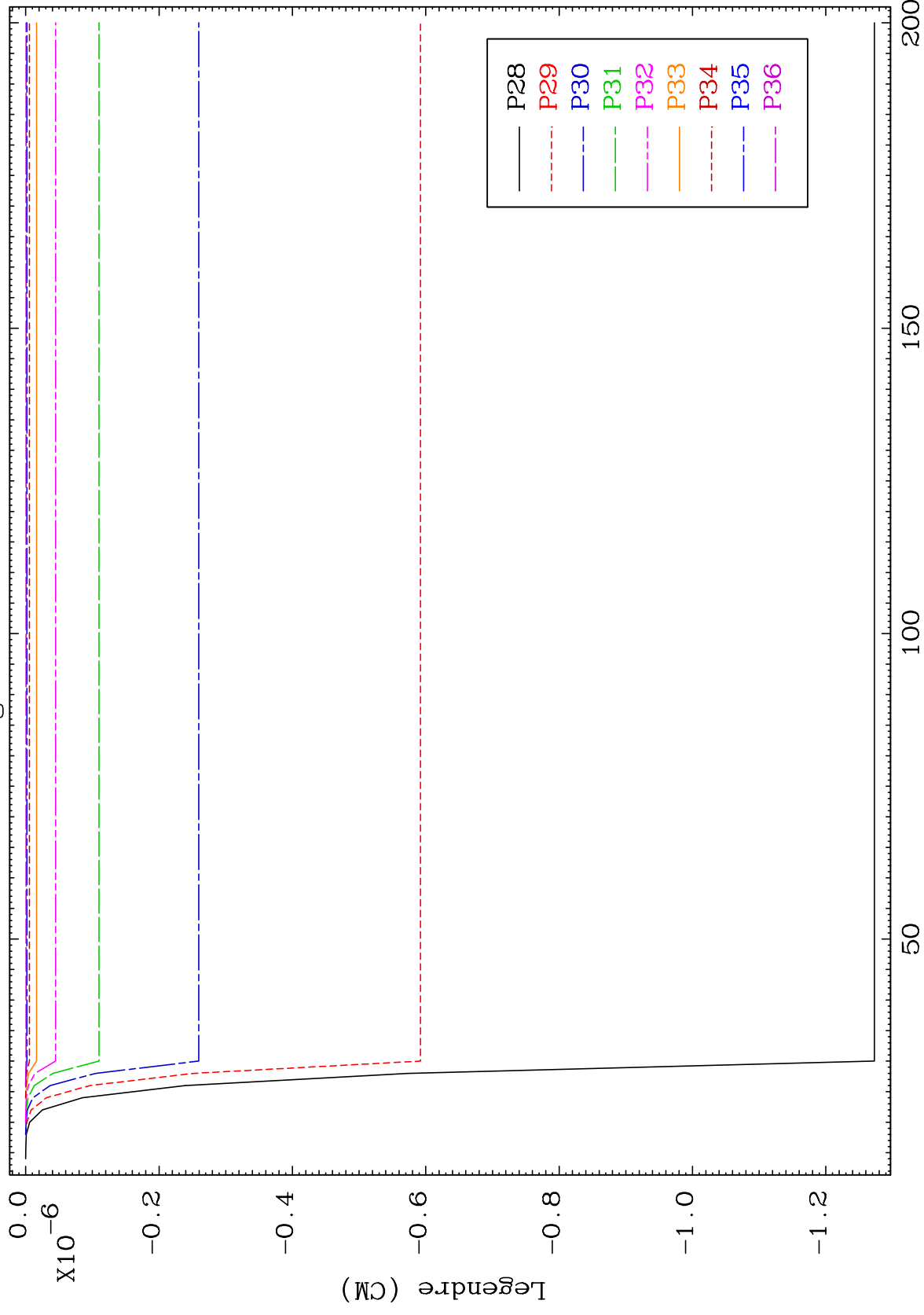
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



93

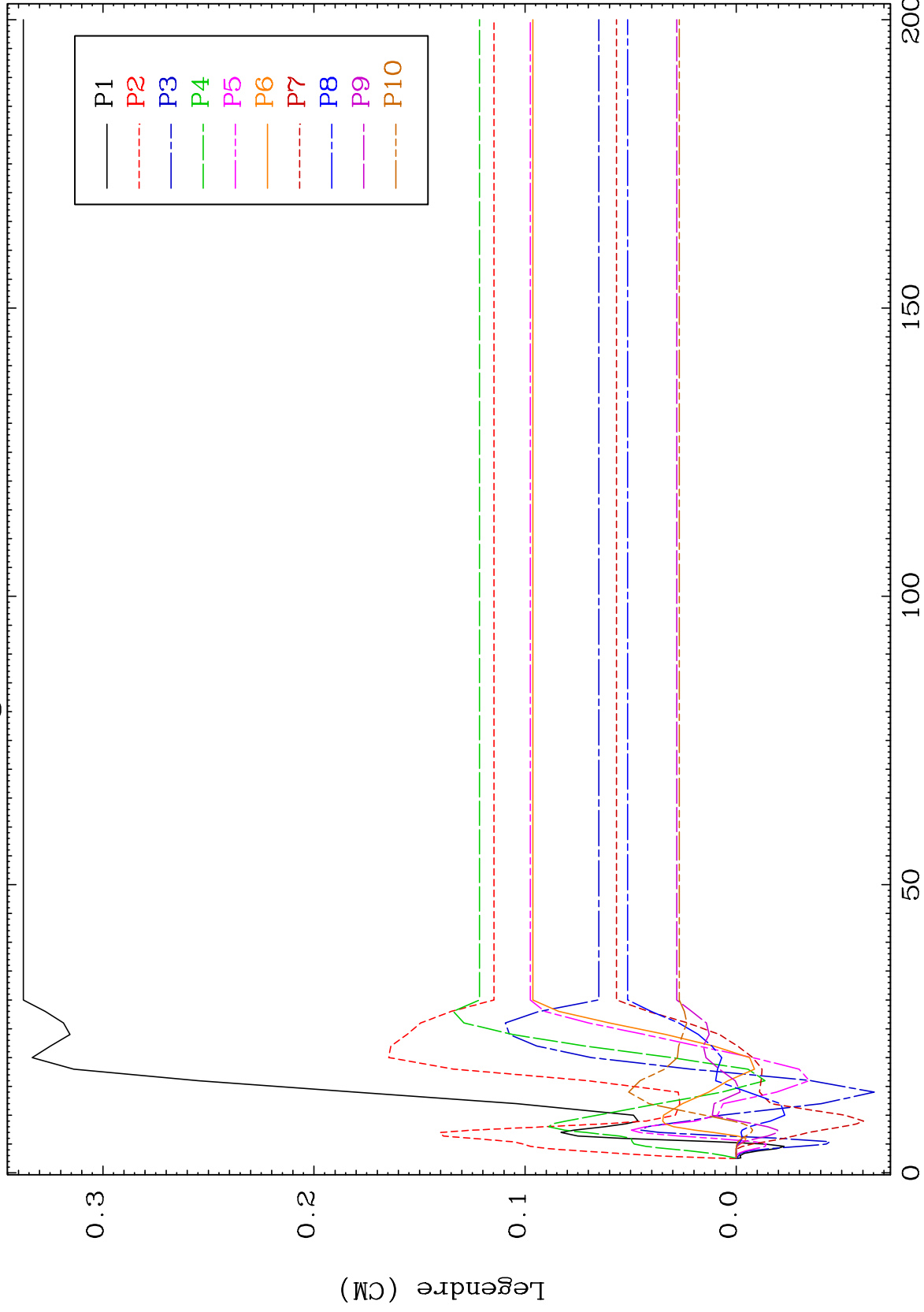
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



94

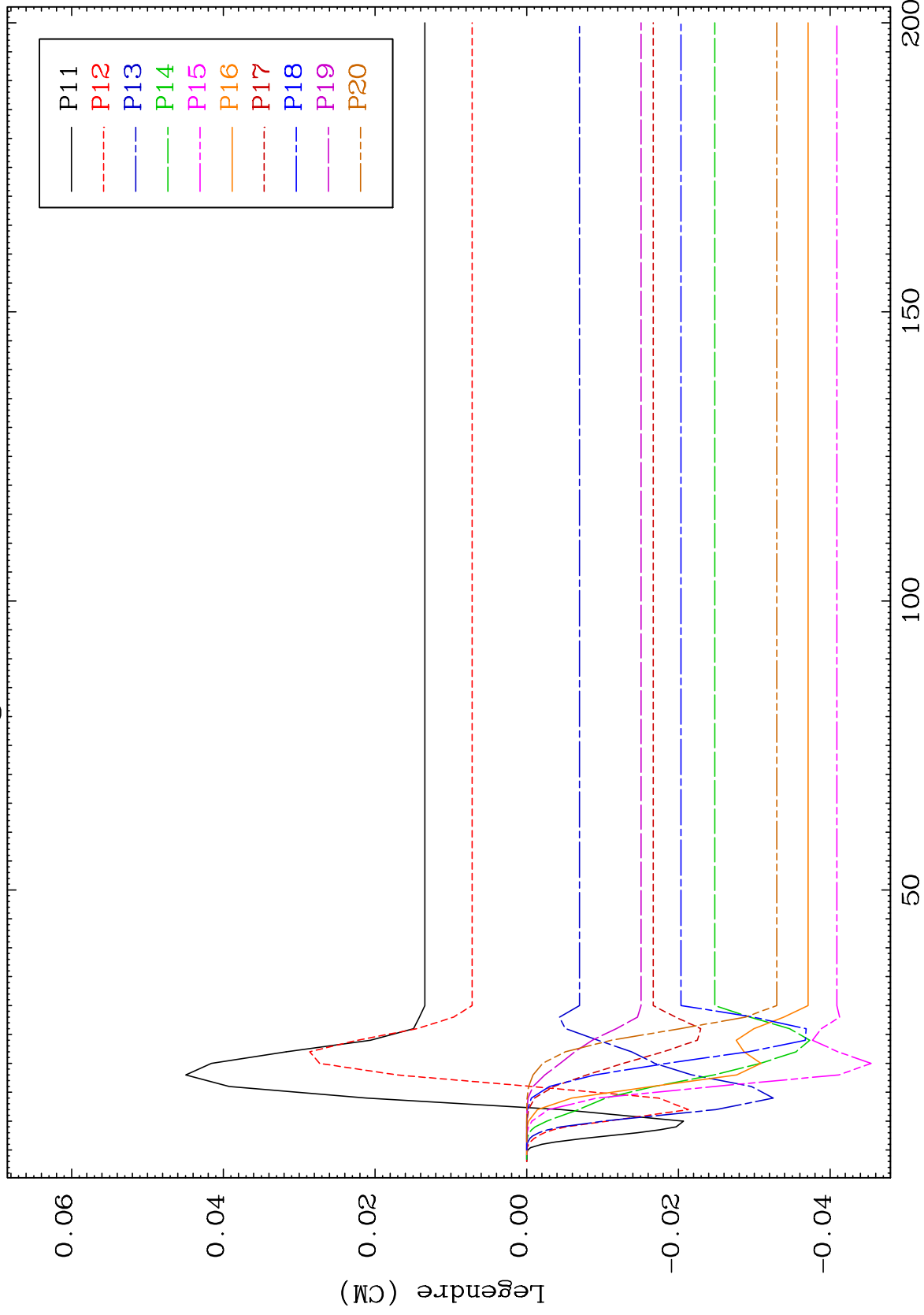
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



95

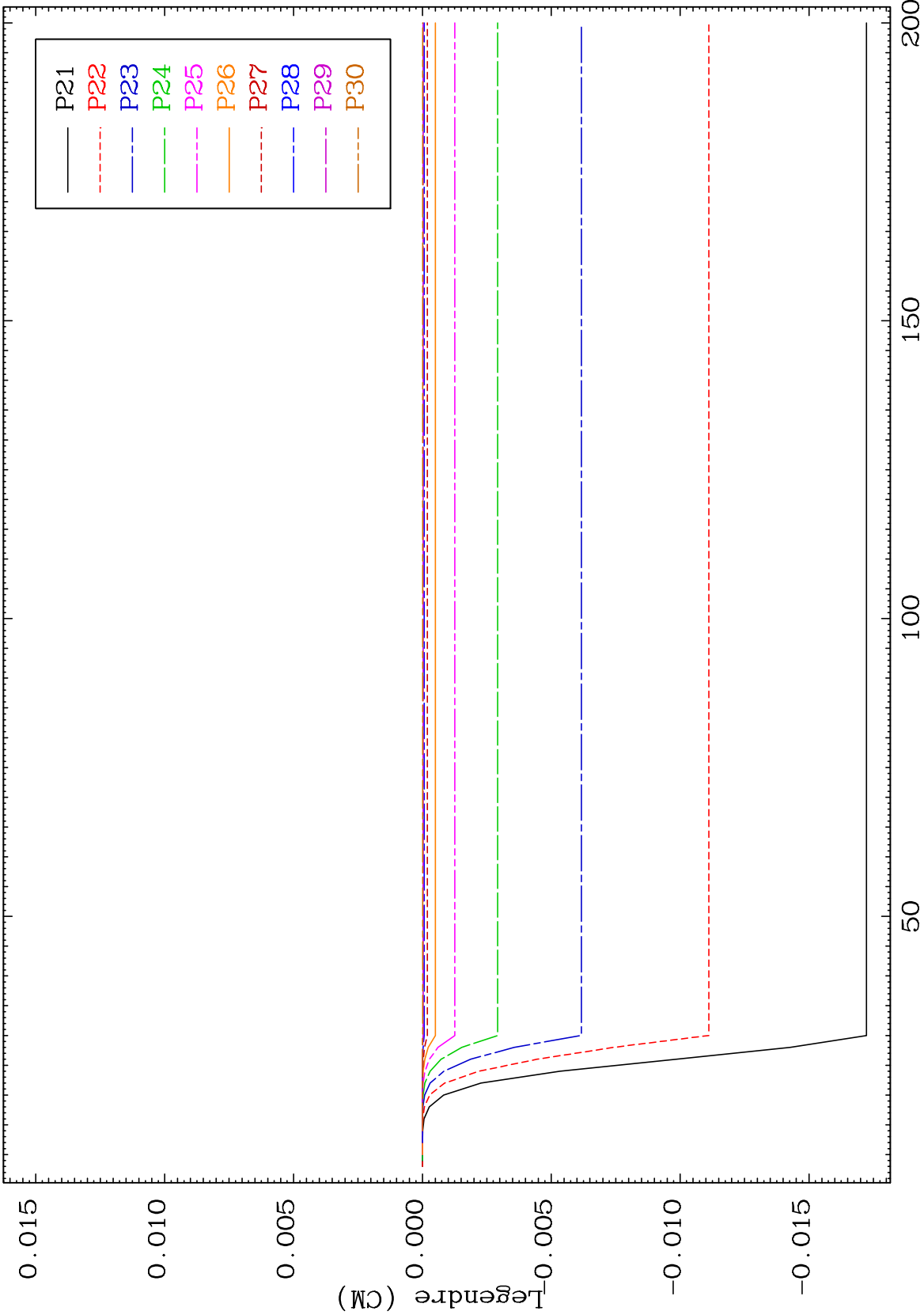
Incident Energy (MeV)

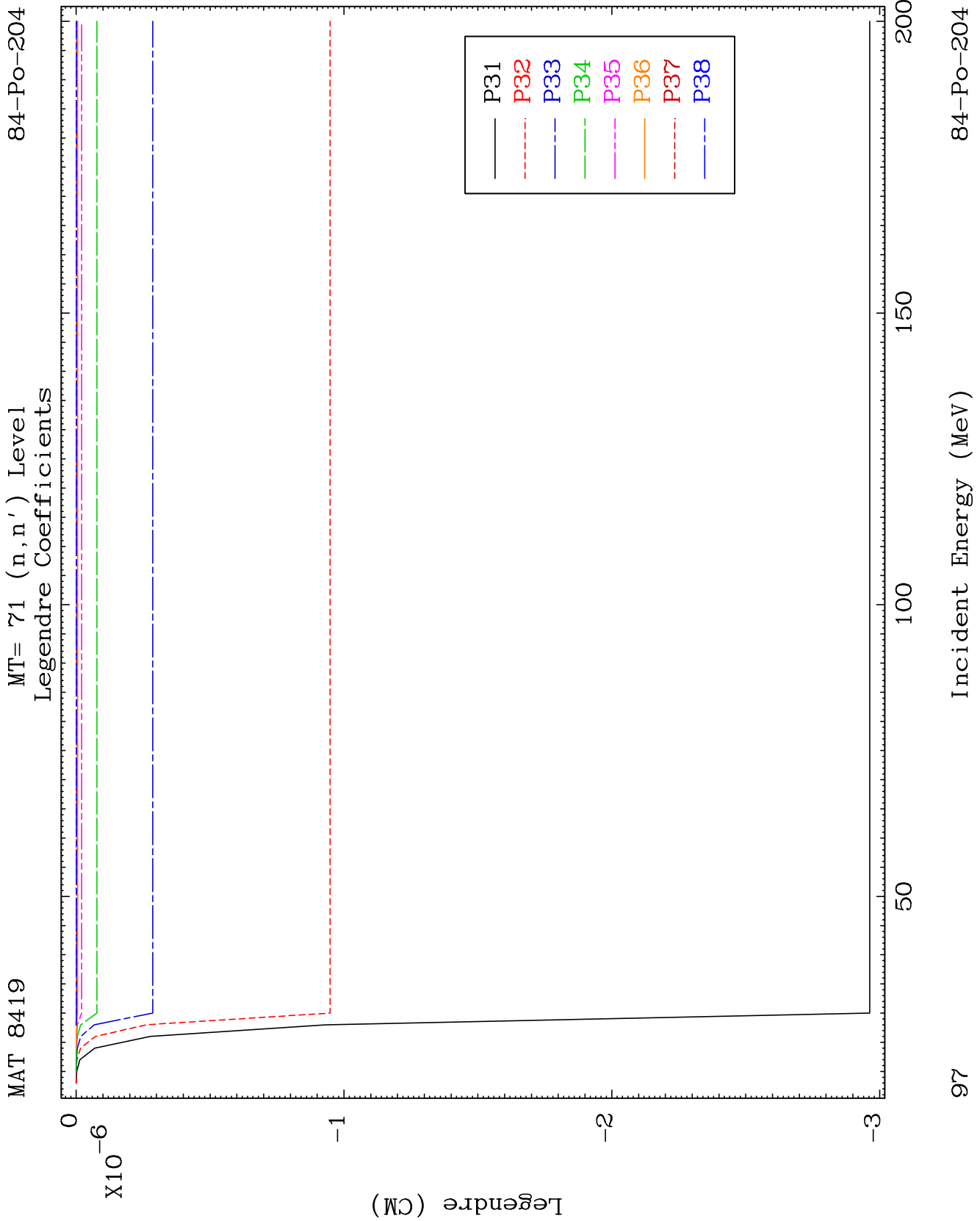
84-Po-204

MAT 8419

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

84-Po-204

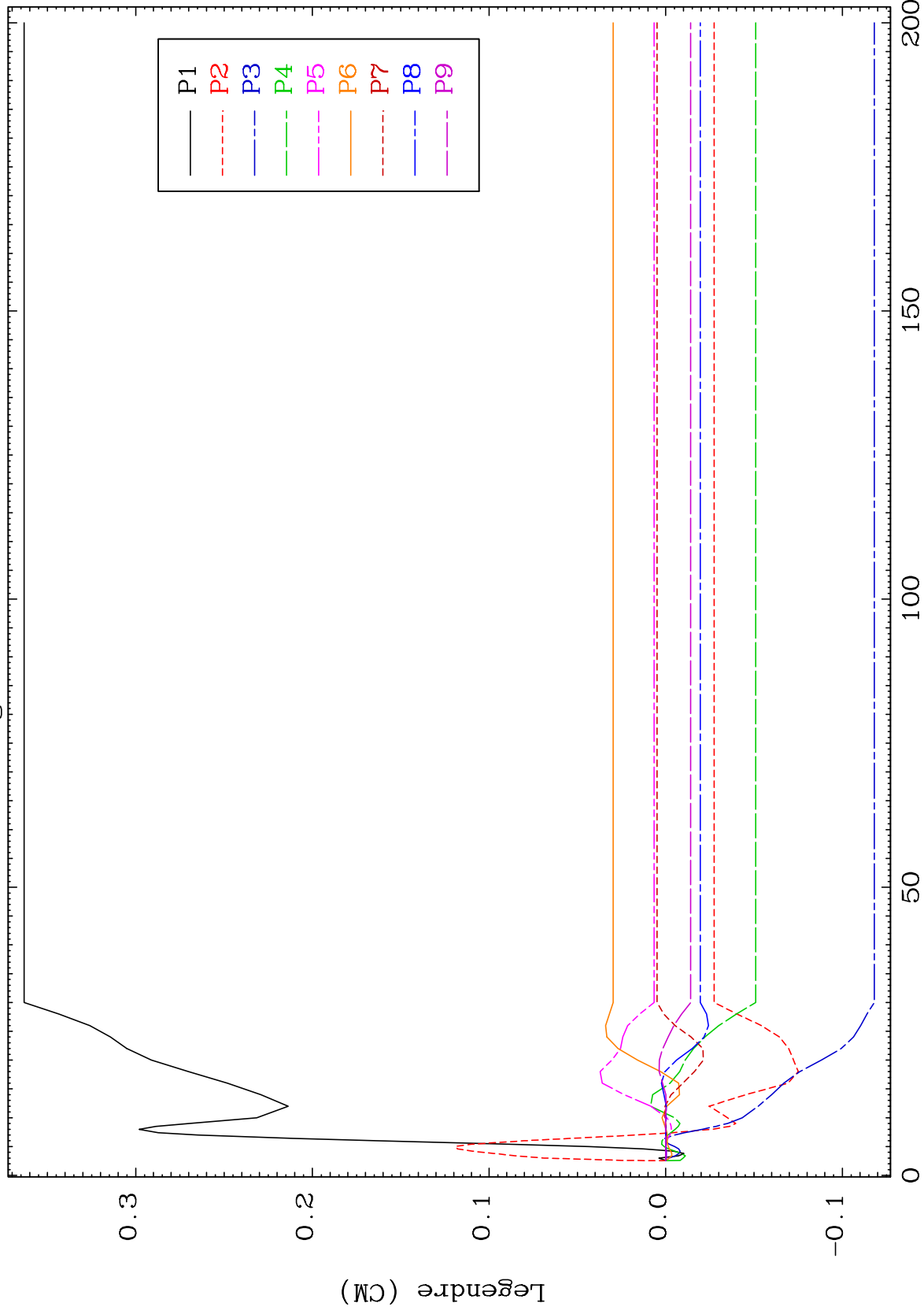




MAT 8419

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

84-Po-204



98

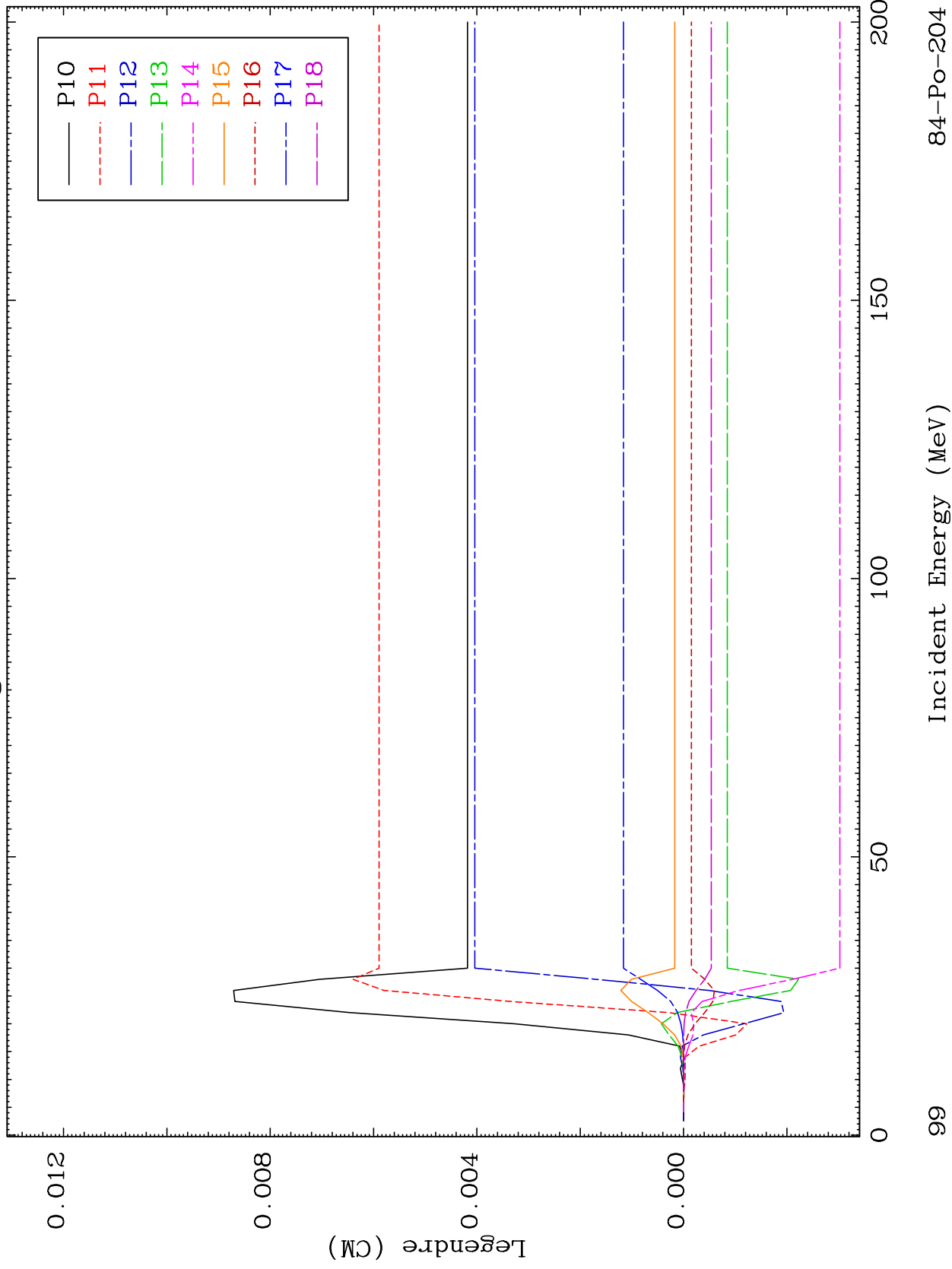
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



99

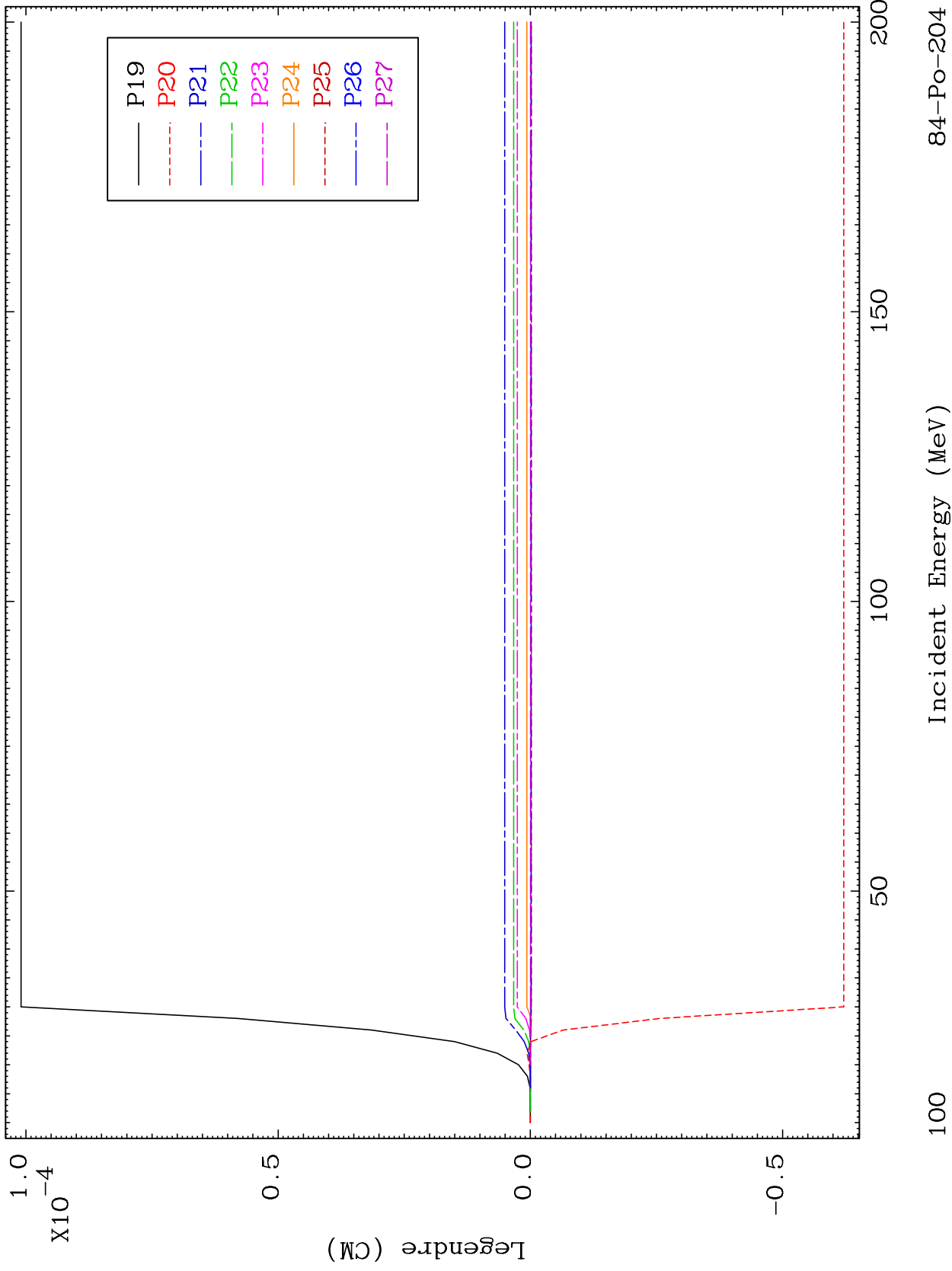
Incident Energy (MeV)

84-Po-204

MAT 8419

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

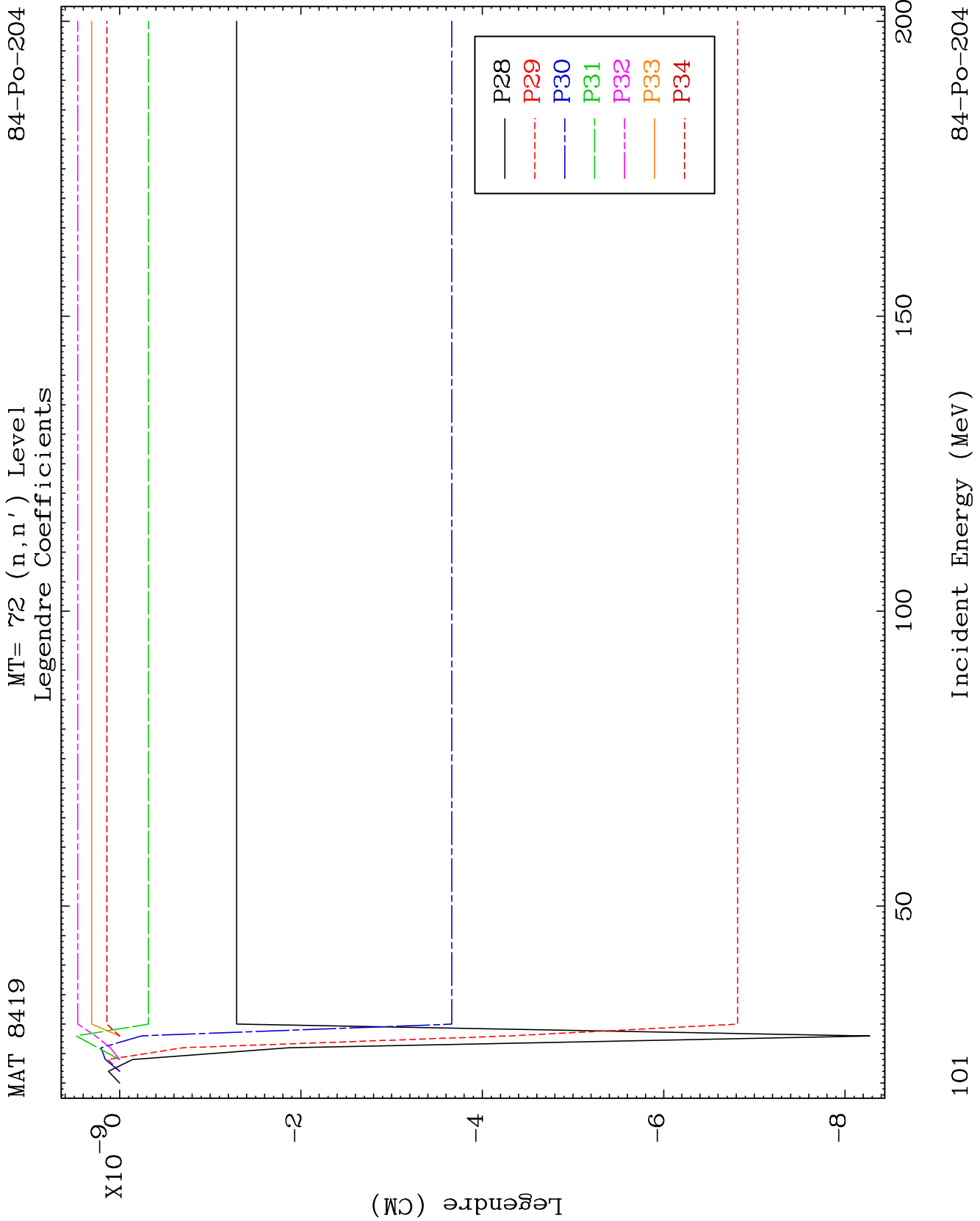
84-Po-204



84-Po-204

Incident Energy (MeV)

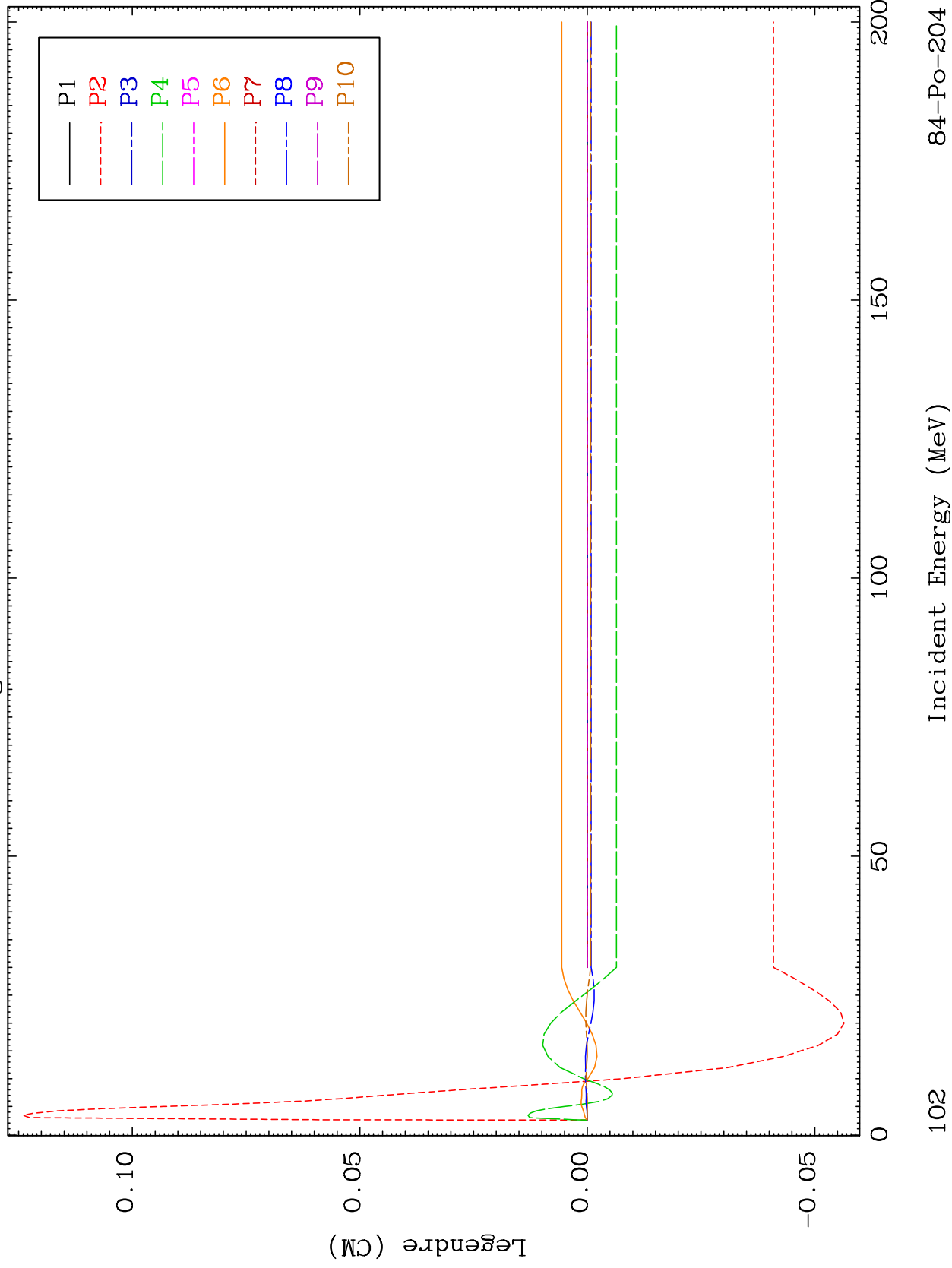
100



MAT 8419

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

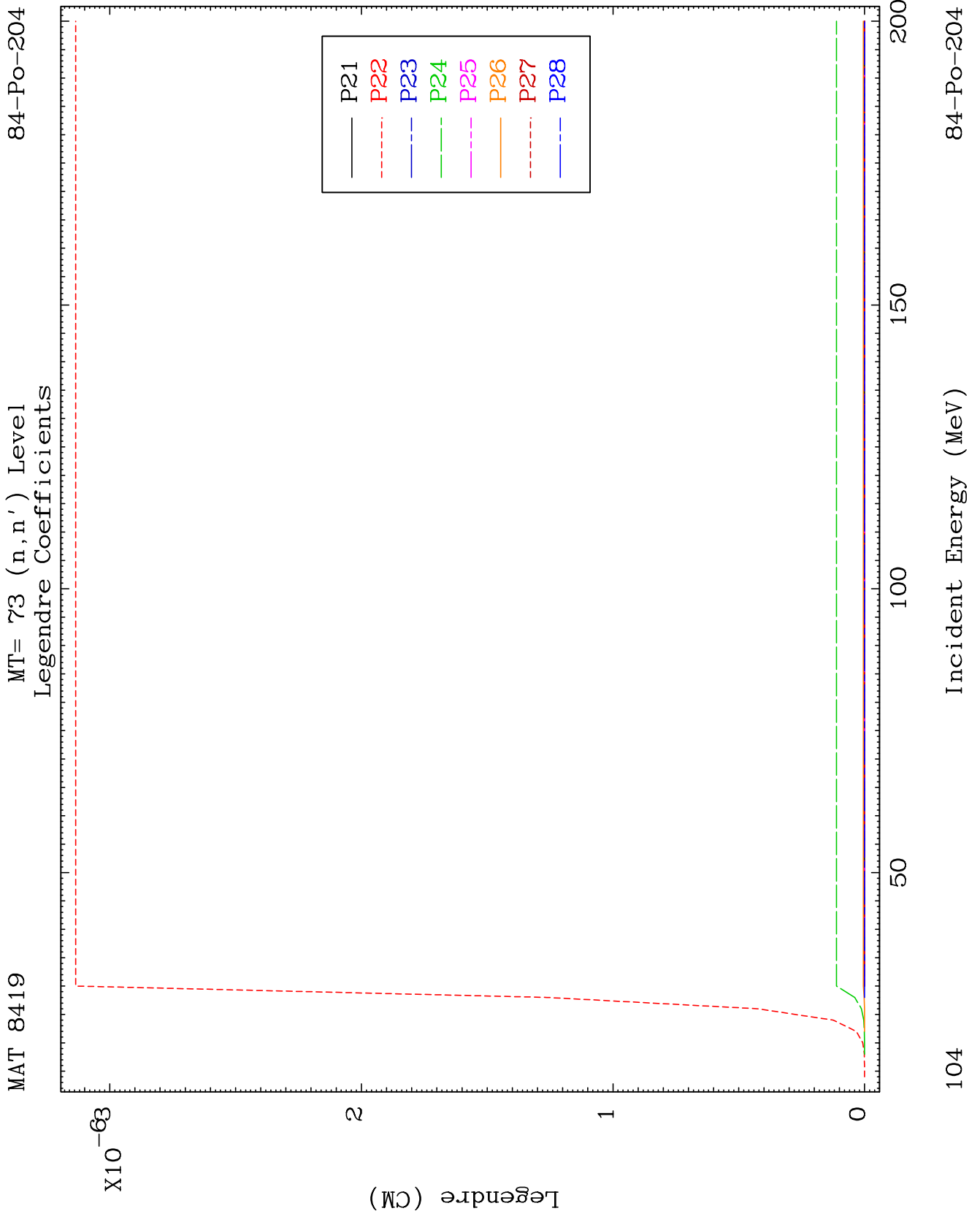
84-Po-204

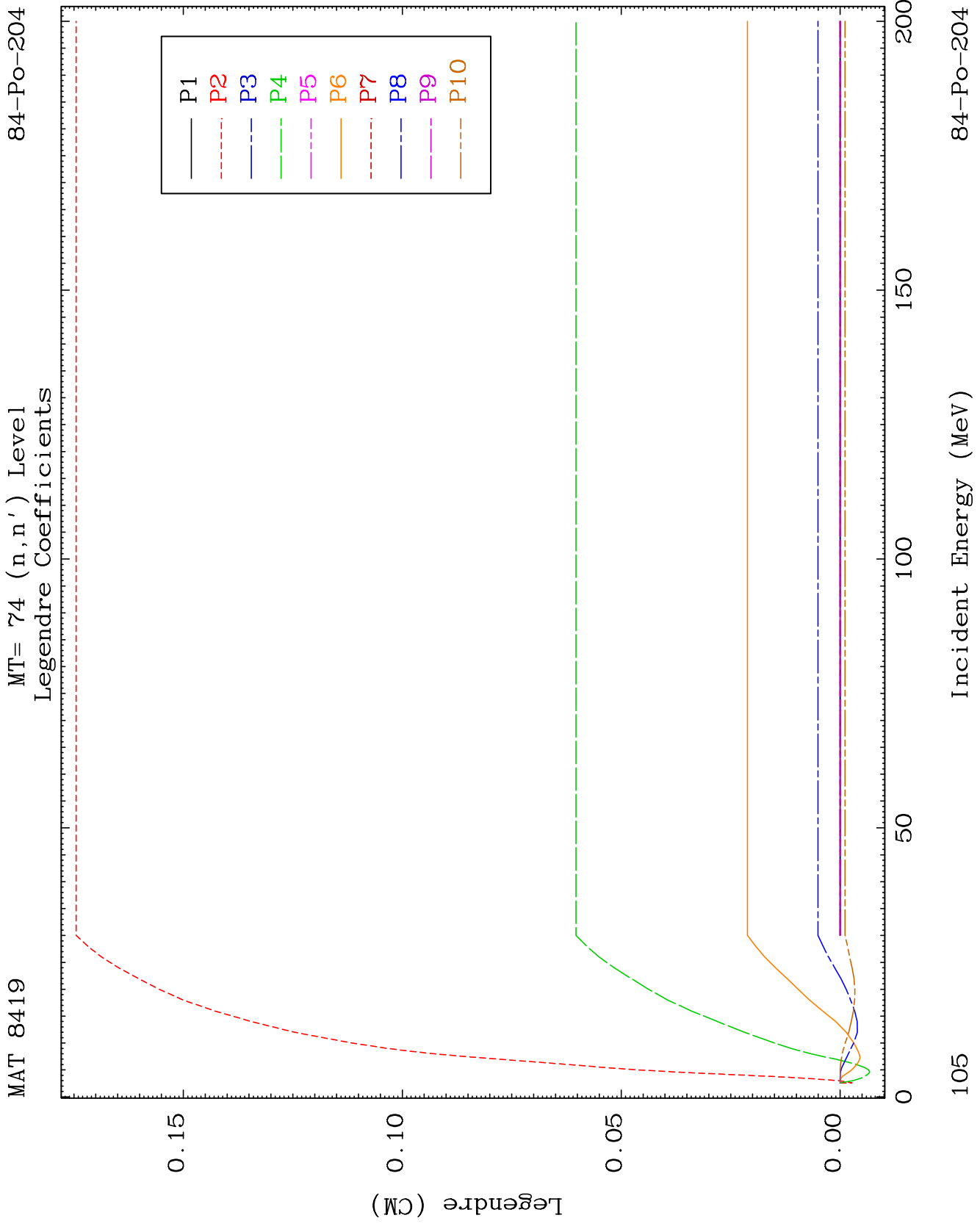


84-Po-204

Incident Energy (MeV)

102

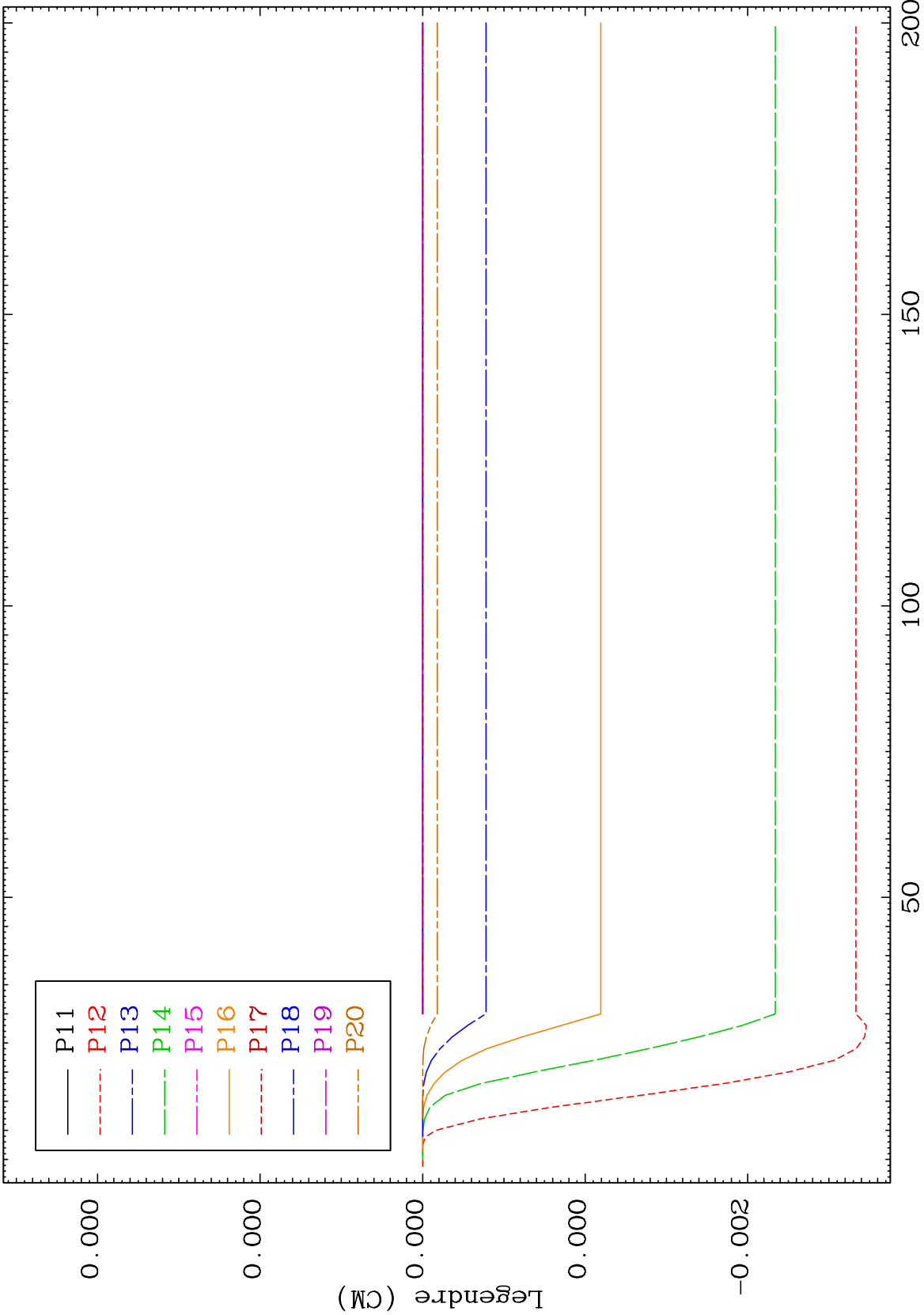




MAT 8419

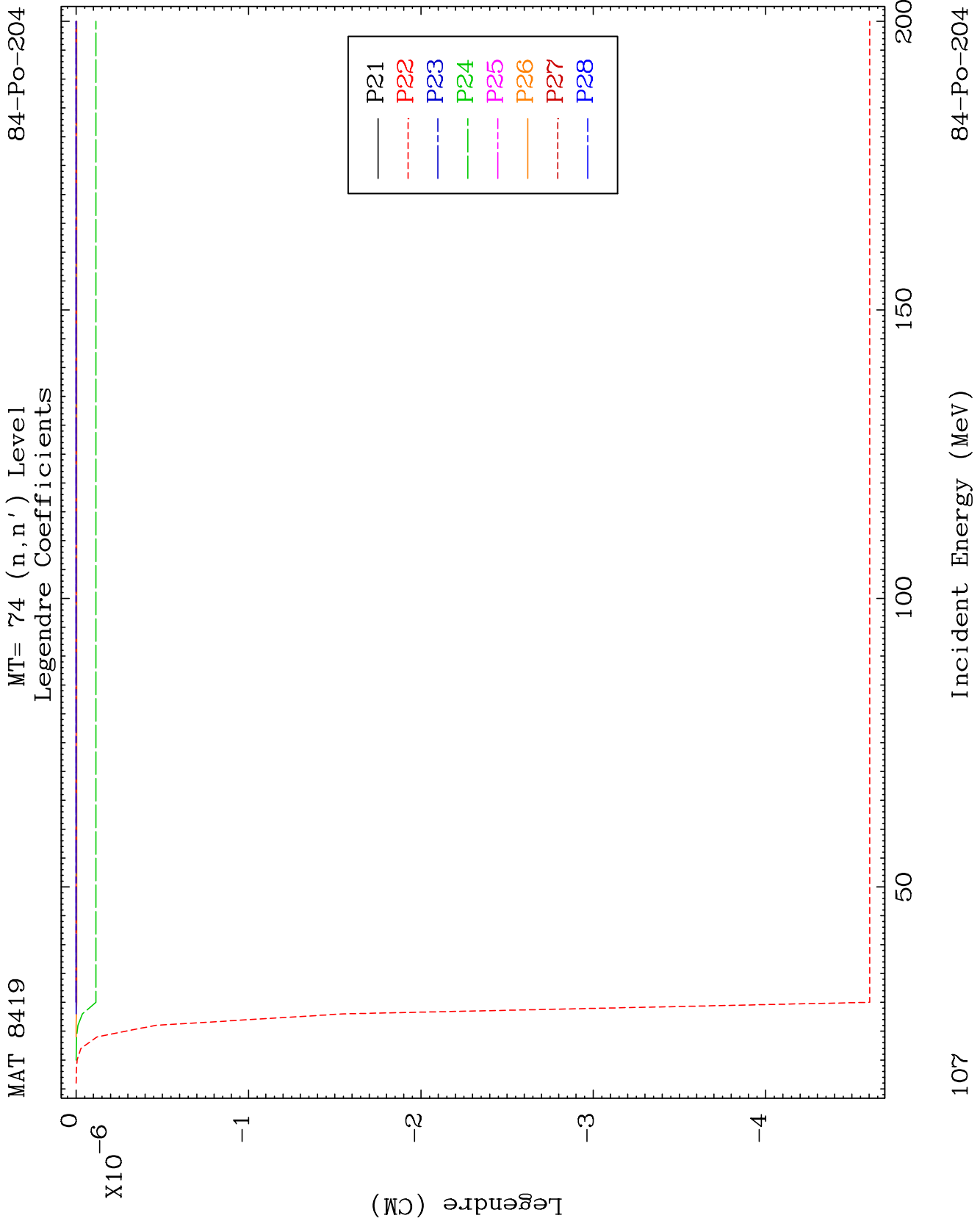
MT= 74 (n,n') Level
Legendre Coefficients

84-Po-204



106

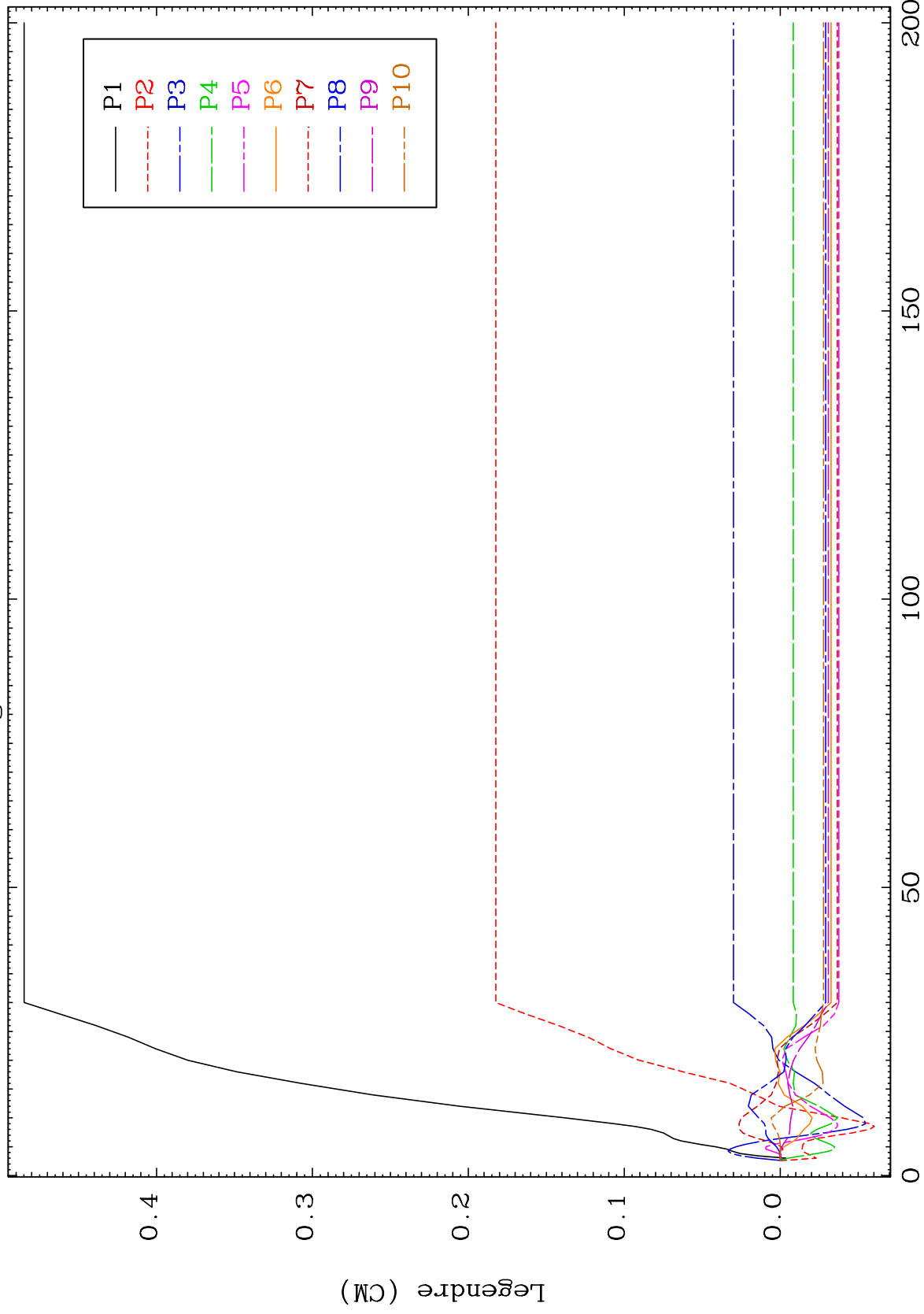
84-Po-204



MAT 8419

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

84-Po-204



108

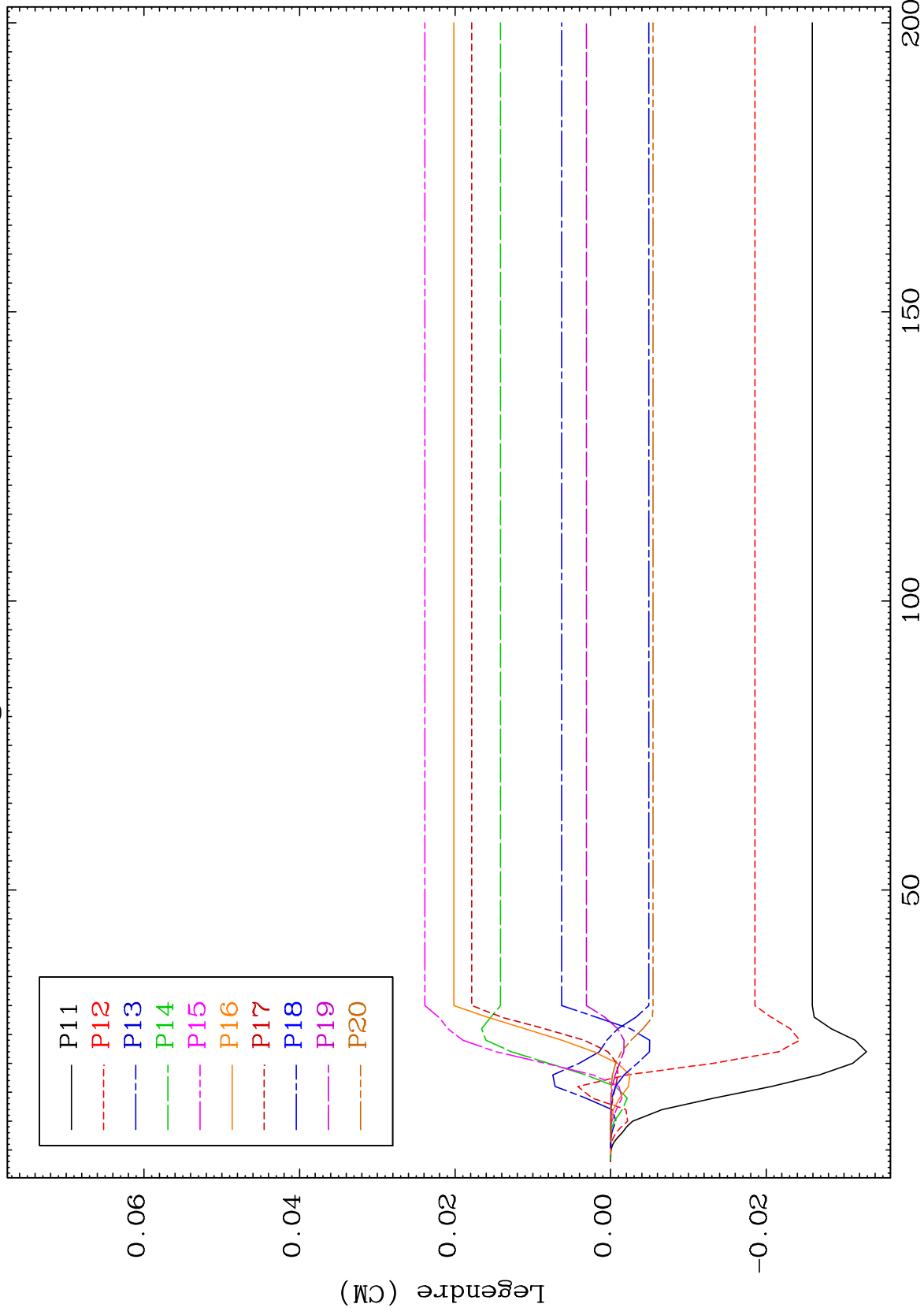
Incident Energy (MeV)

84-Po-204

MAT 8419

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

84-Po-204



109

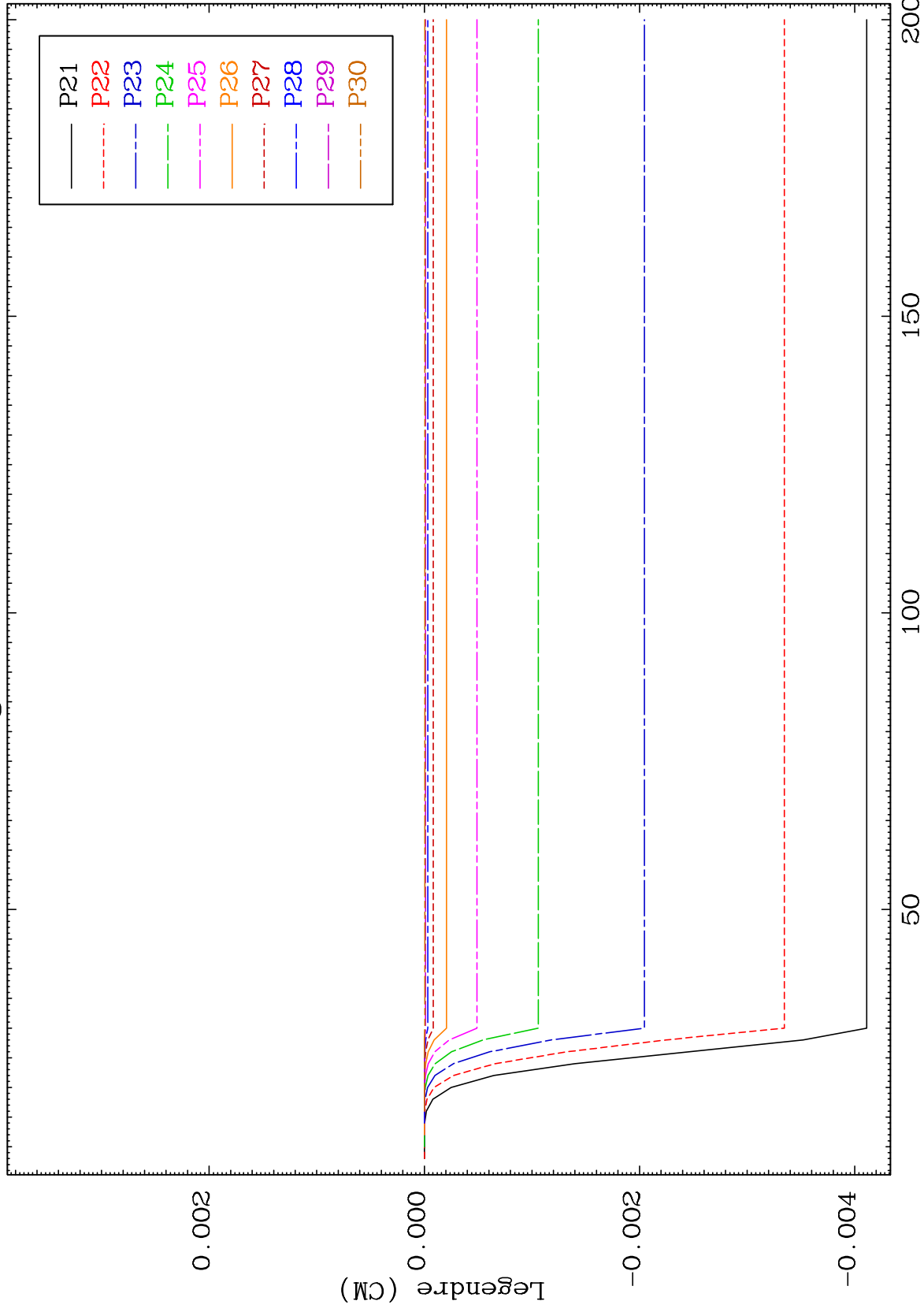
Incident Energy (MeV)

84-Po-204

MAT 8419

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

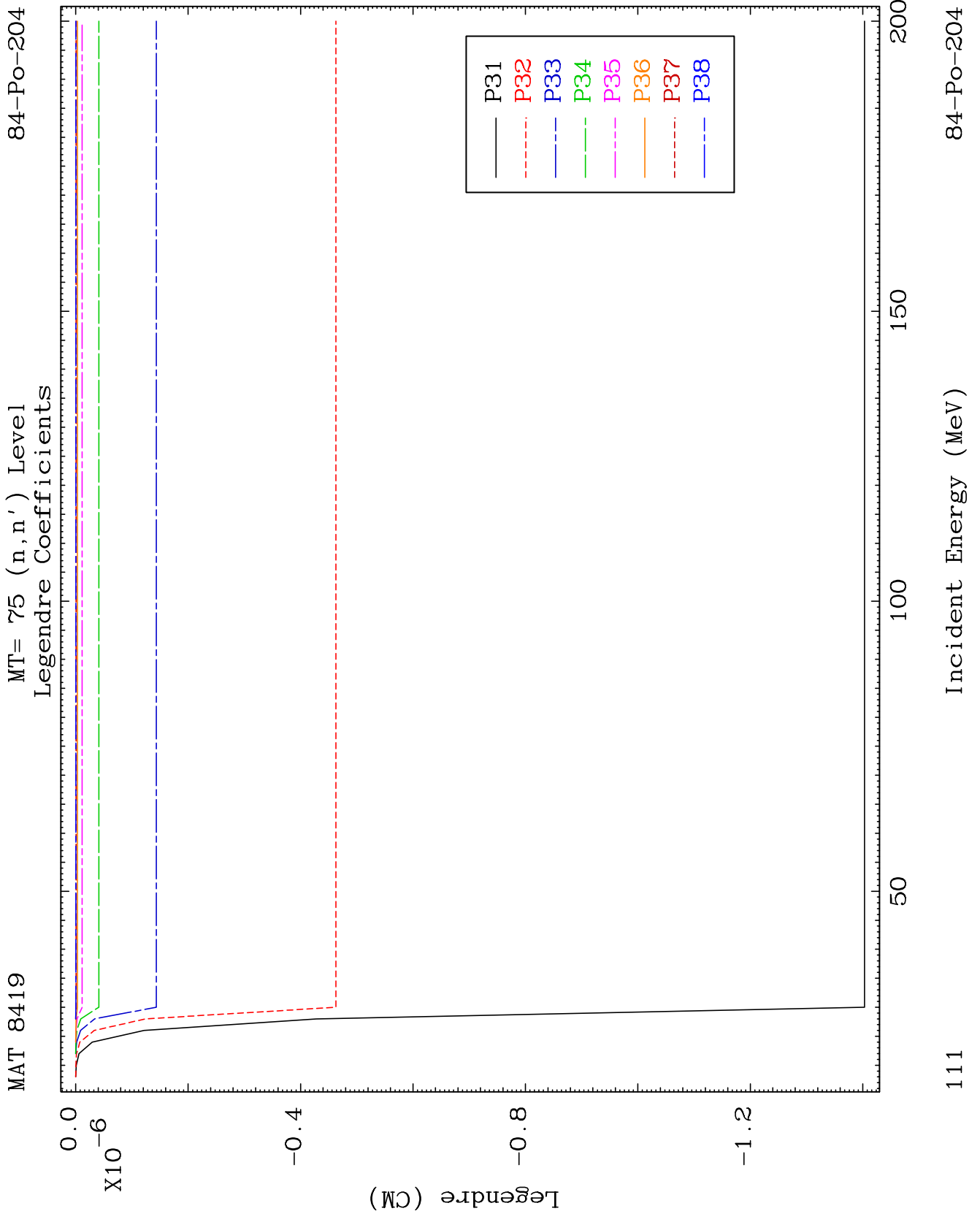
84-Po-204



110

Incident Energy (MeV)

84-Po-204

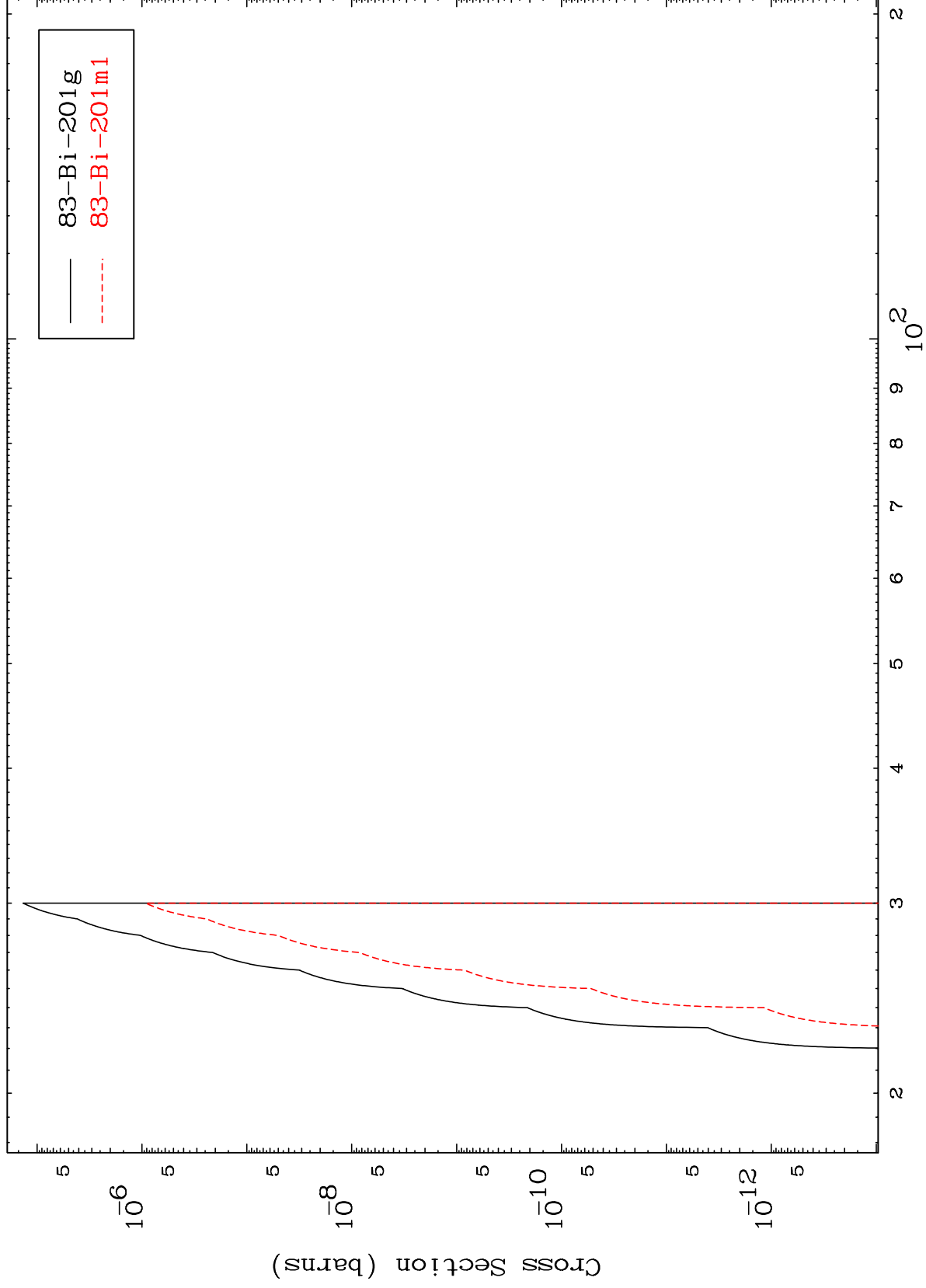


MAT 8419

(n,2n) d

84-Po-204

Radionuclide Production Cross Section



112

Incident Energy (MeV)

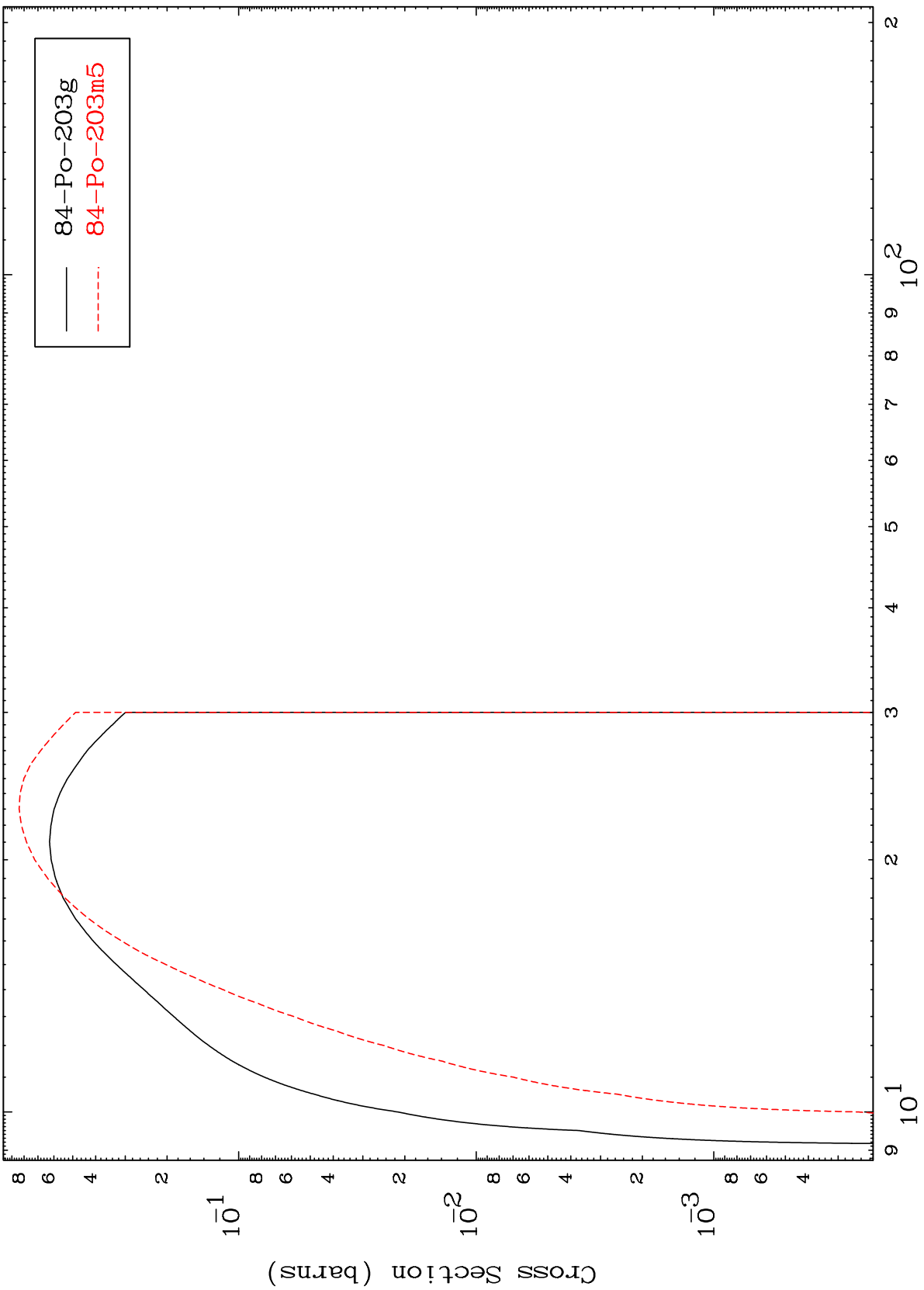
84-Po-204

MAT 8419

84-Po-204

(n,2n)

Radionuclide Production Cross Section



84-Po-203g
84-Po-203m5

84-Po-204

Incident Energy (MeV)

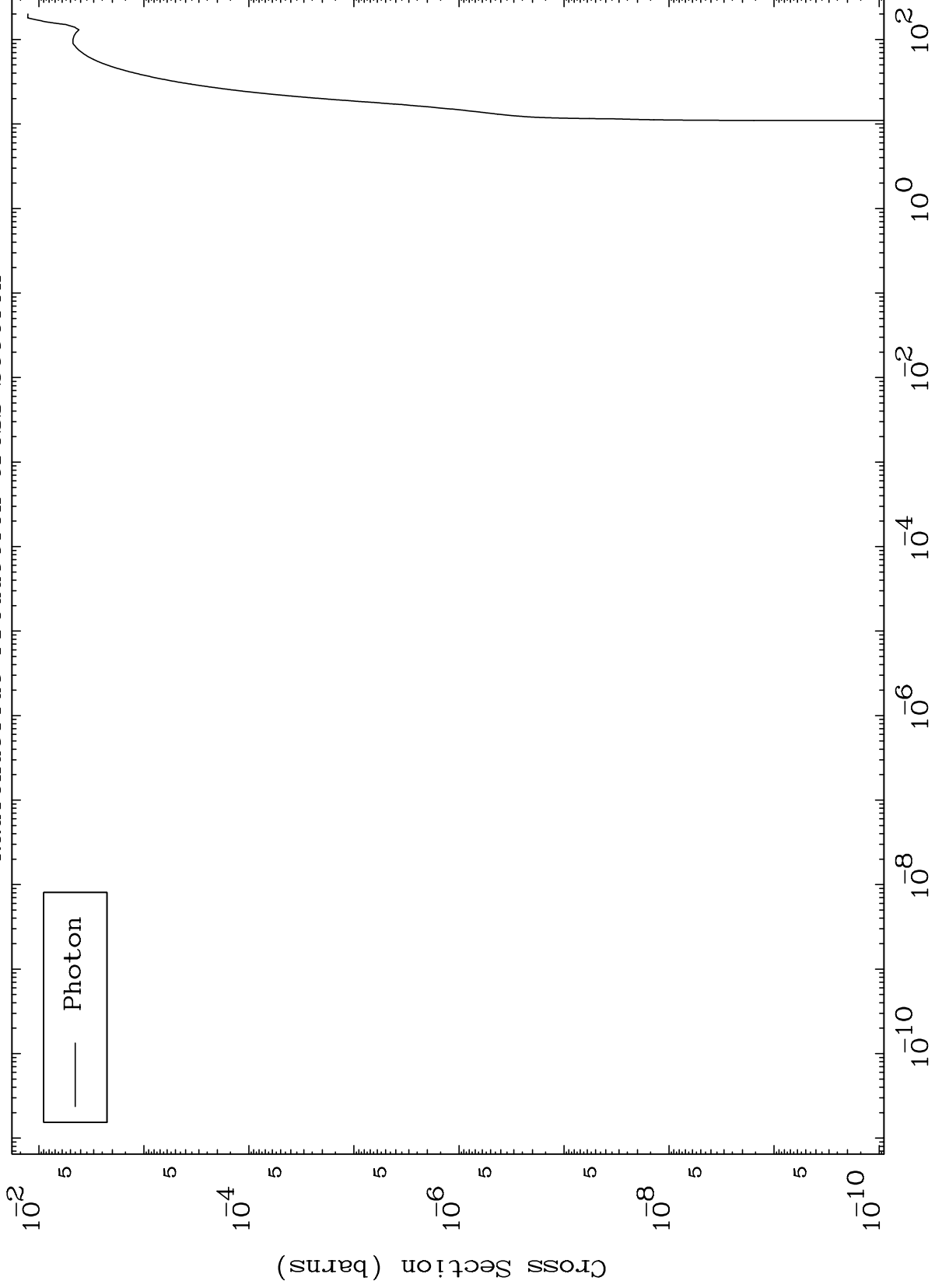
113

MAT 8419

Fission

84-Po-204

Radionuclide Production Cross Section



114

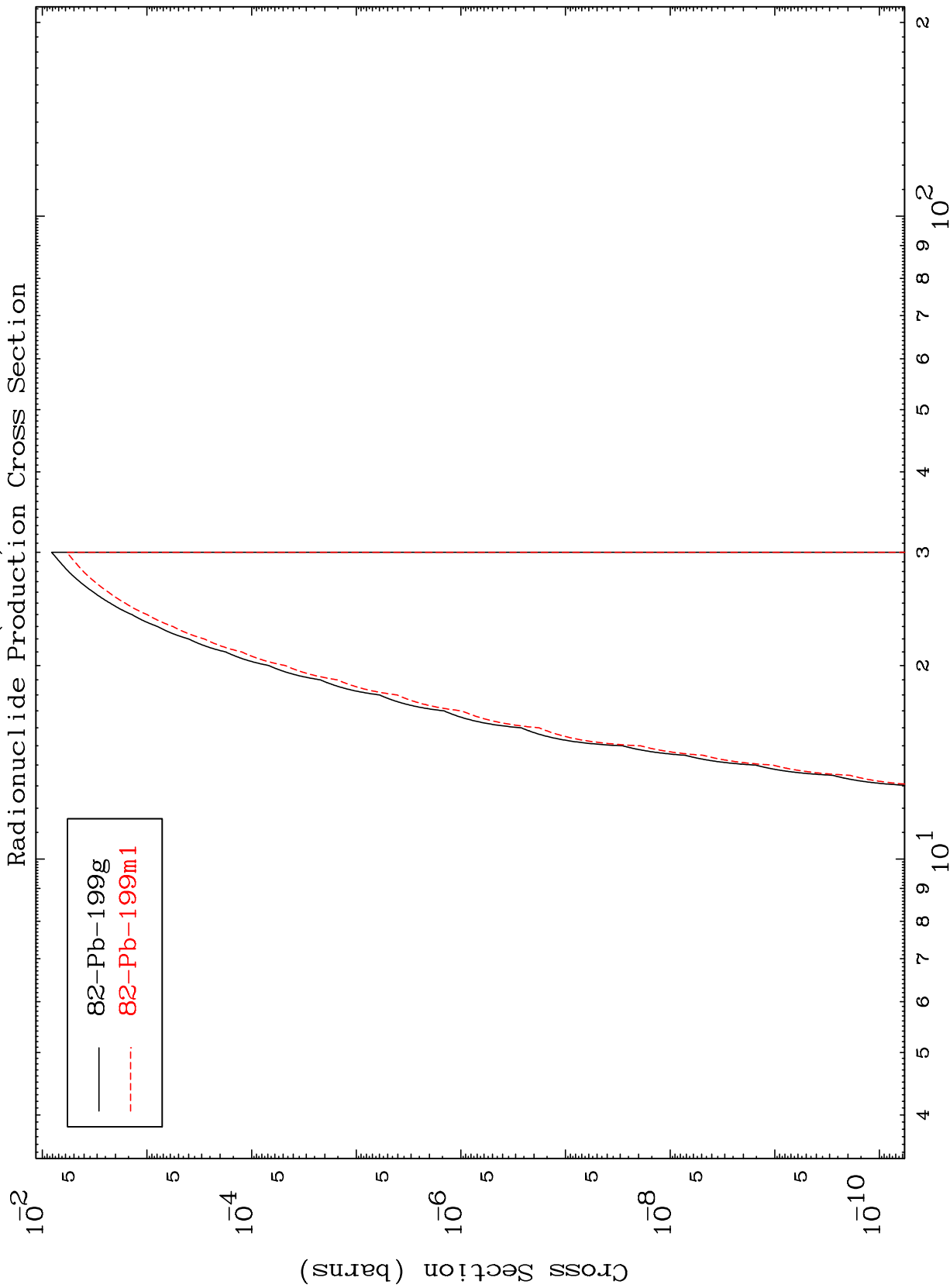
Incident Energy (MeV)

84-Po-204

MAT 8419

$(n,2n) \alpha$

84-Po-204



115

Incident Energy (MeV)

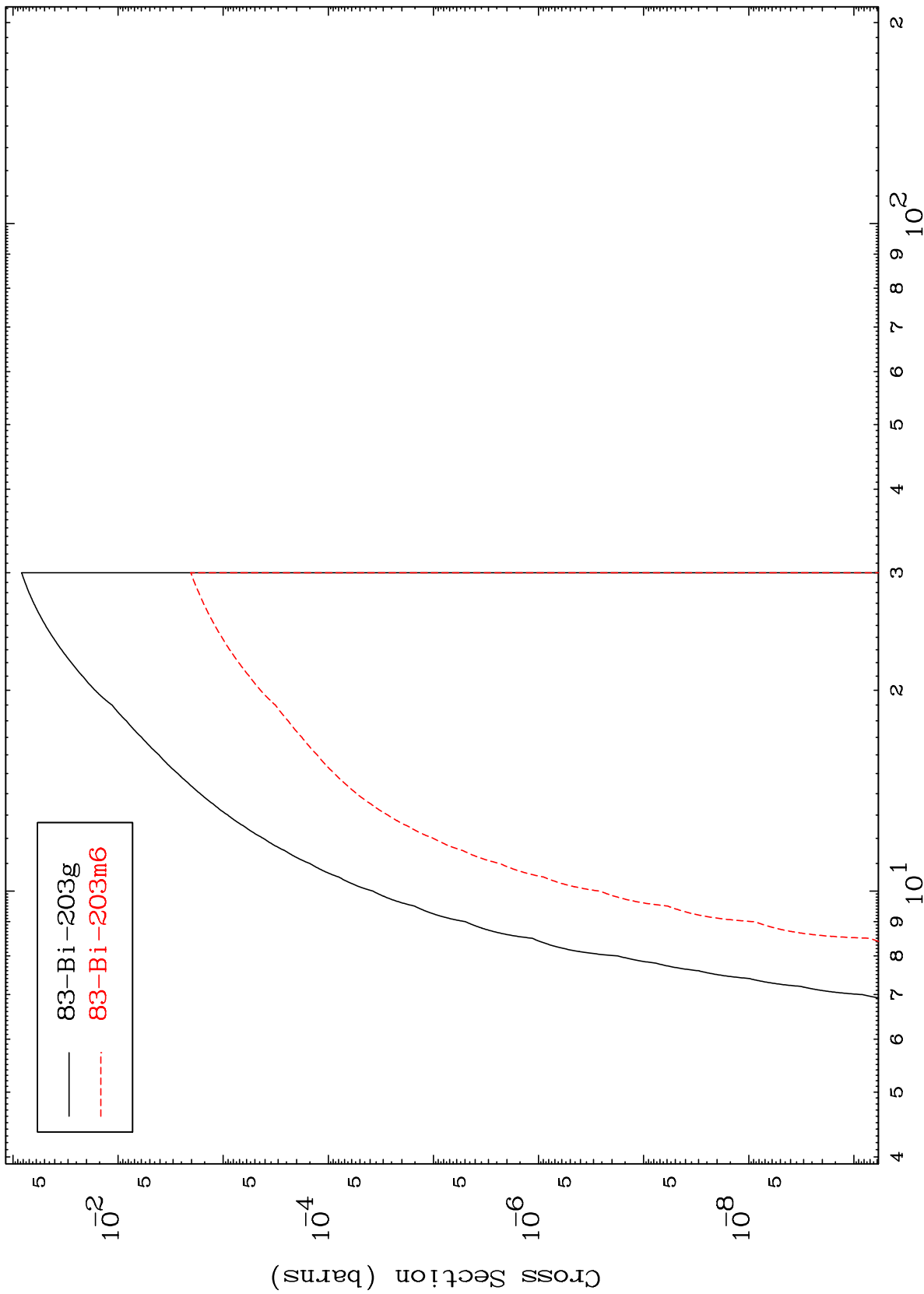
84-Po-204

MAT 8419

(n,n') p

84-Po-204

Radionuclide Production Cross Section



116

Incident Energy (MeV)

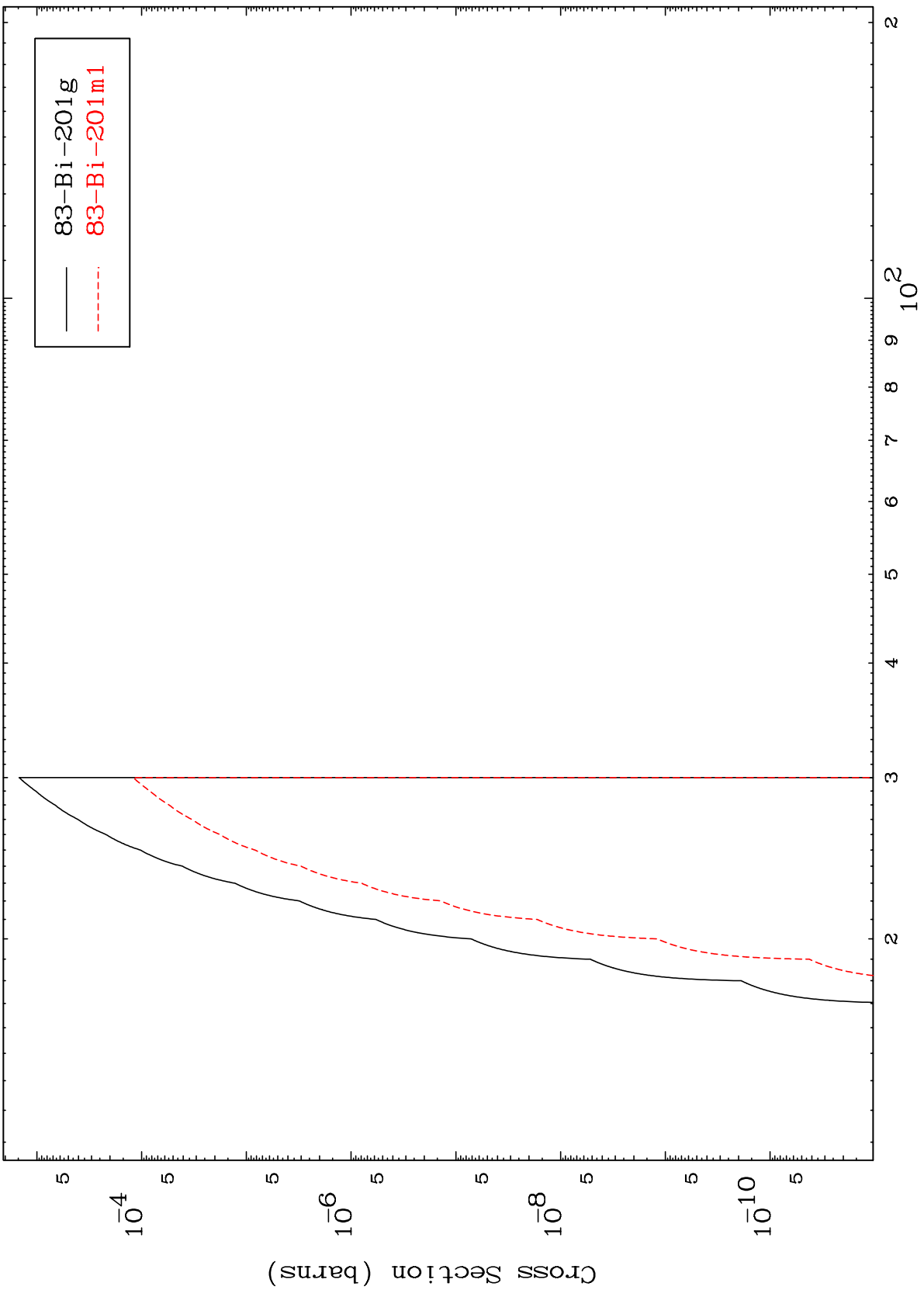
84-Po-204

MAT 8419

(n,n') t

84-Po-204

Radionuclide Production Cross Section



117

Incident Energy (MeV)

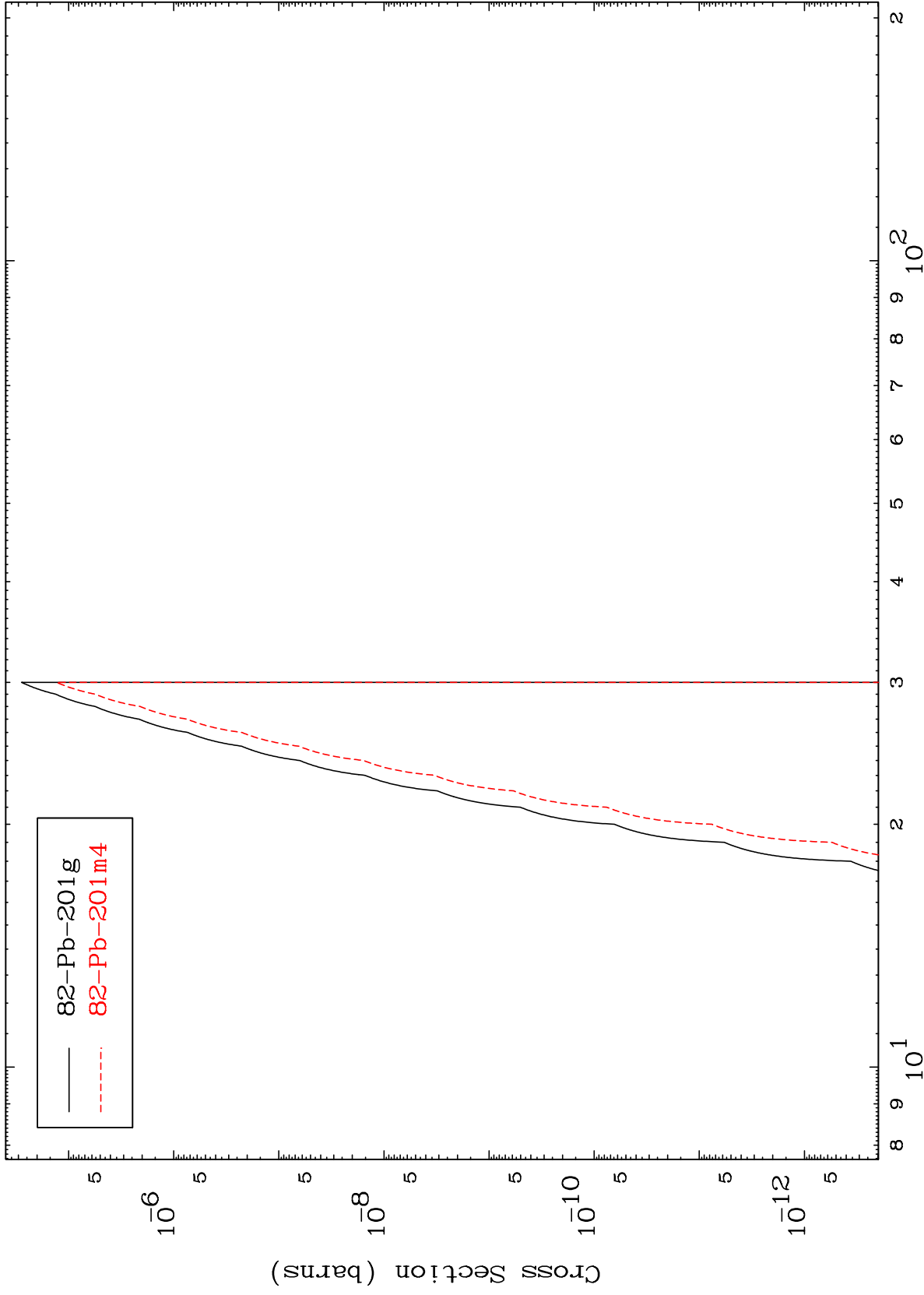
84-Po-204

MAT 8419

(n,n') He-3

84-Po-204

Radionuclide Production Cross Section



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

118

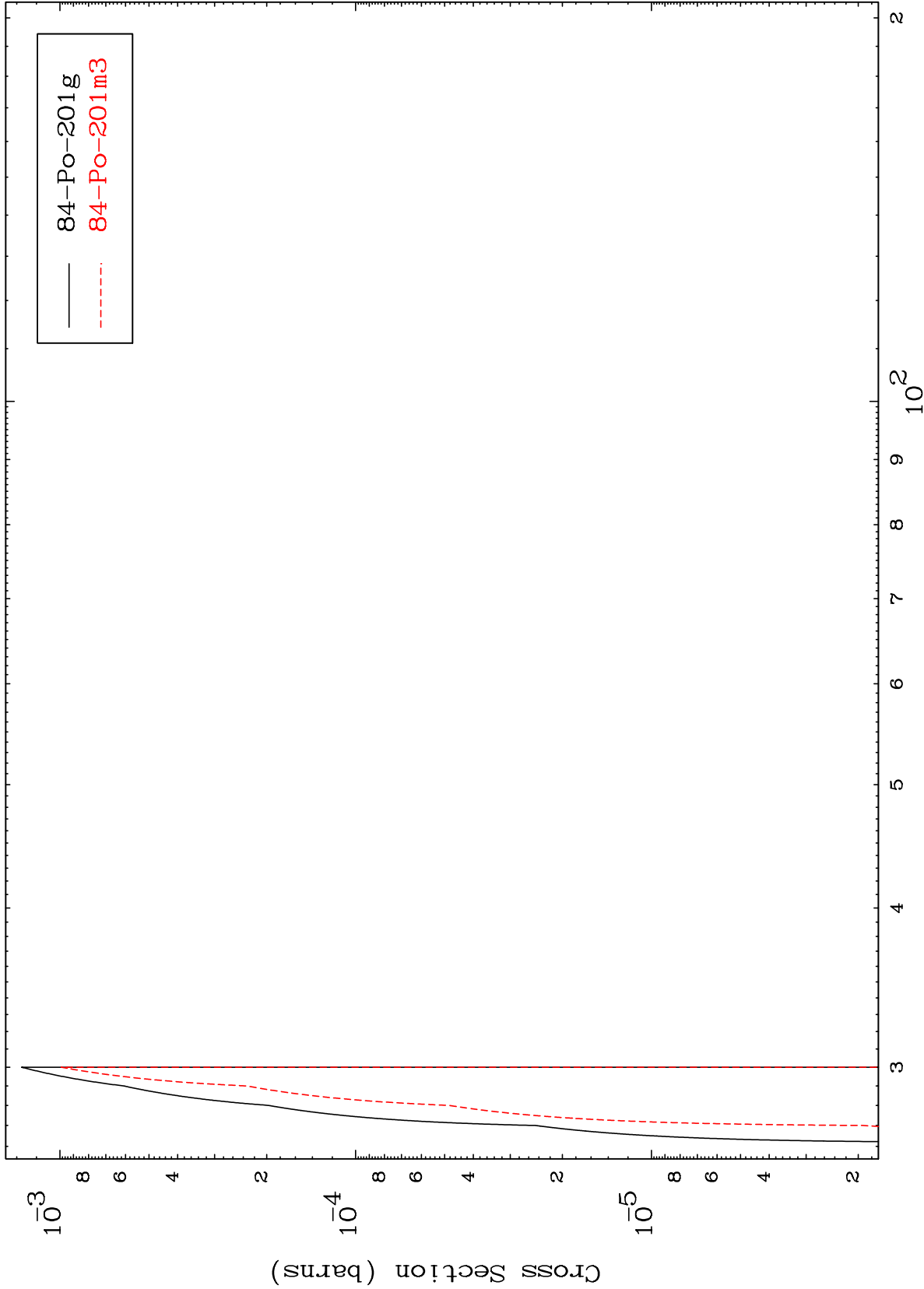
Incident Energy (MeV)

84-Po-204

MAT 8419

84-Po-204

(n,4n)
Radionuclide Production Cross Section



119

84-Po-204

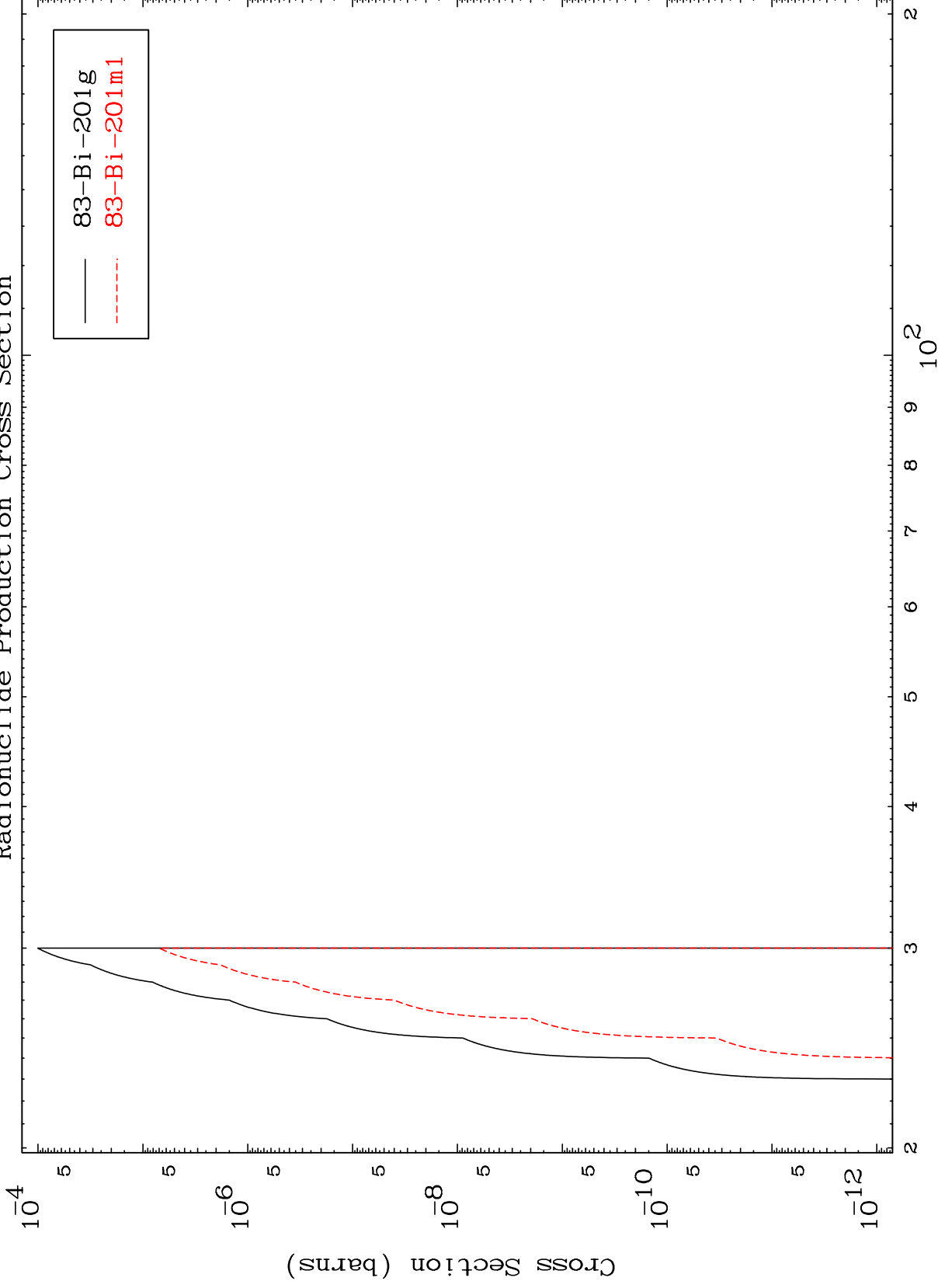
Incident Energy (MeV)

MAT 8419

(n,3n) p

84-Po-204

Radionuclide Production Cross Section



120

Incident Energy (MeV)

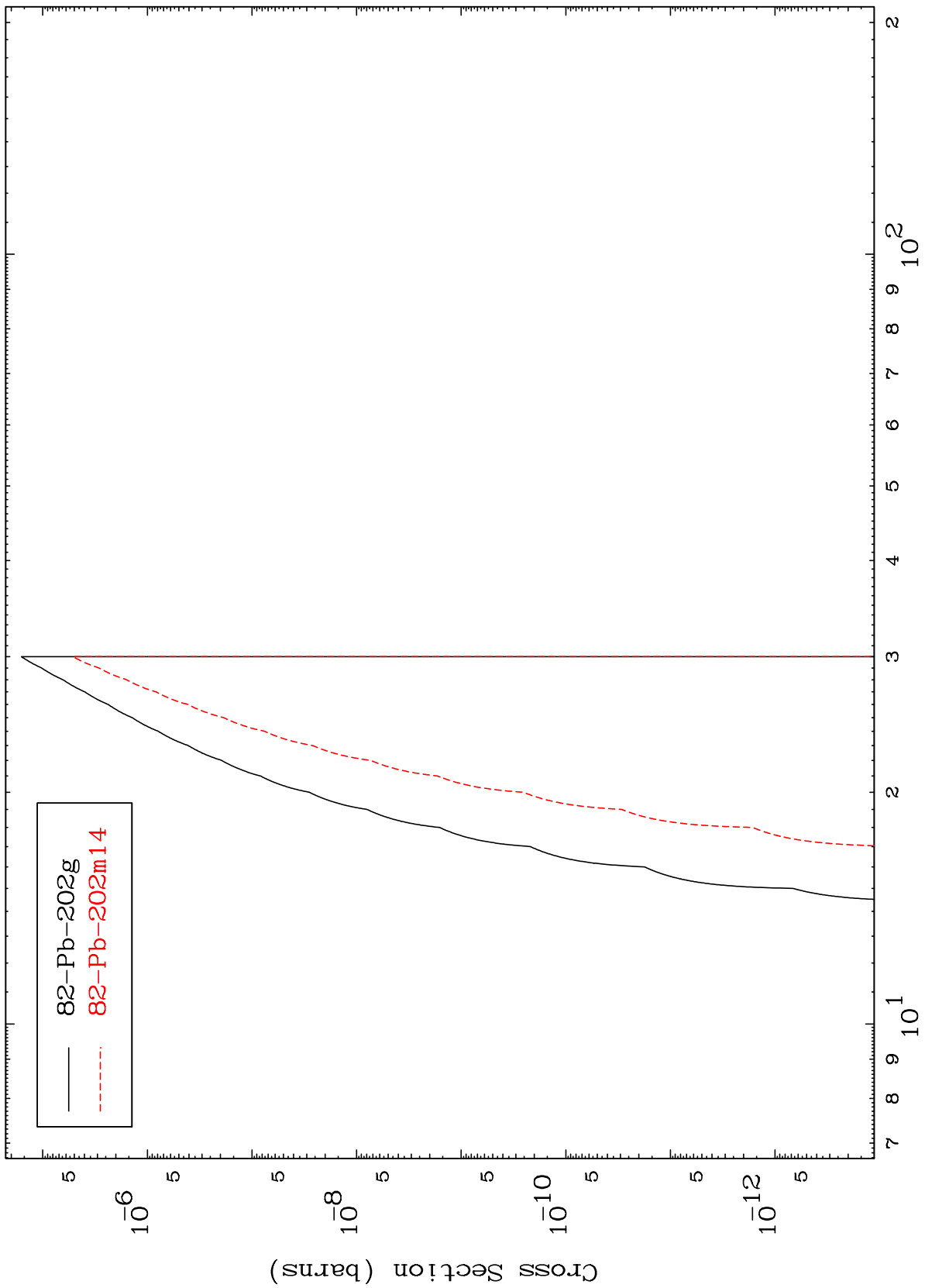
84-Po-204

MAT 8419

(n,2n) p

84-Po-204

Radionuclide Production Cross Section



121

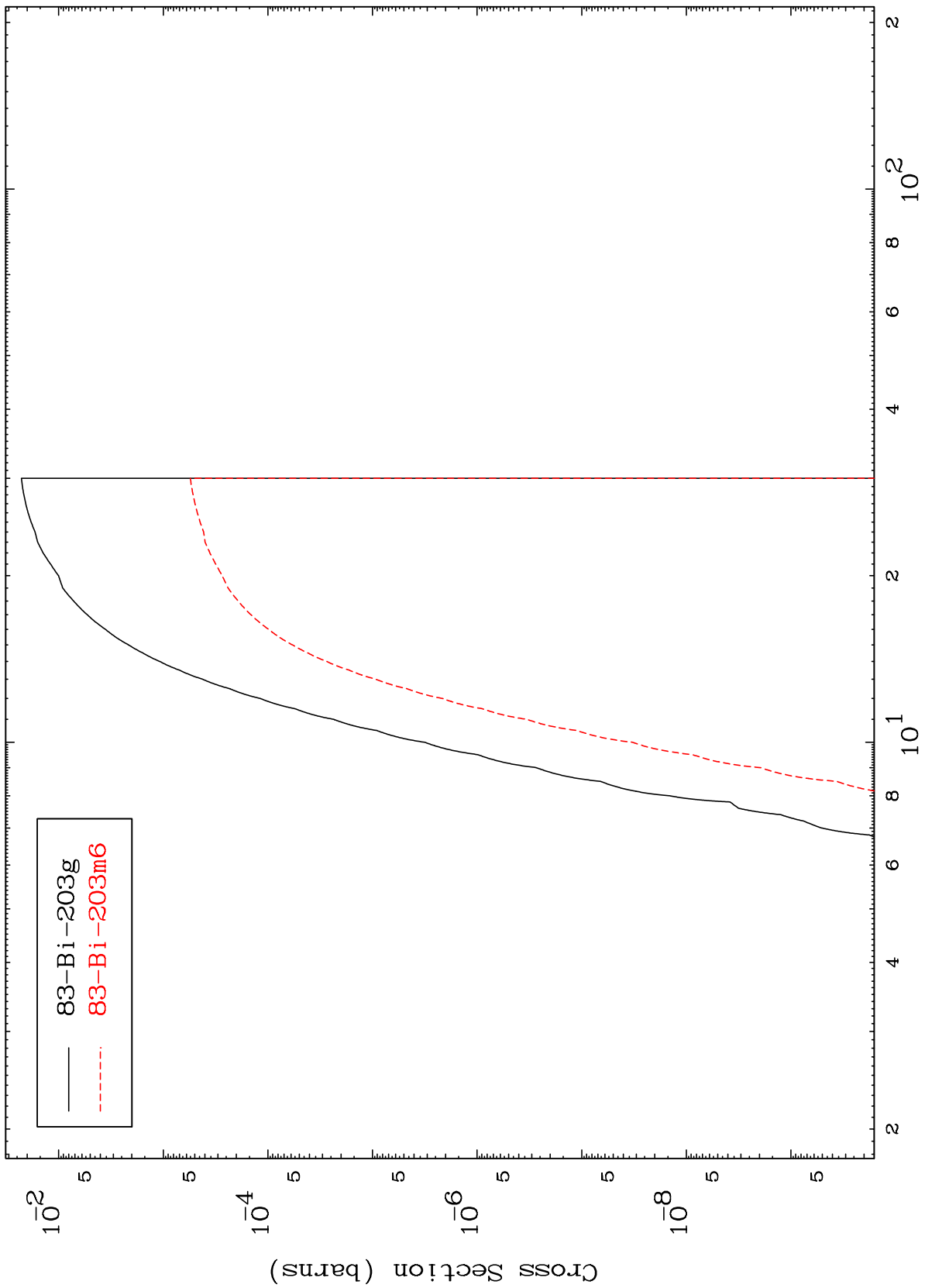
Incident Energy (MeV)

84-Po-204

MAT 8419

84-Po-204

(n,d)
Radionuclide Production Cross Section



— 83-Bi-203g
- - - 83-Bi-203m6

84-Po-204

Incident Energy (MeV)

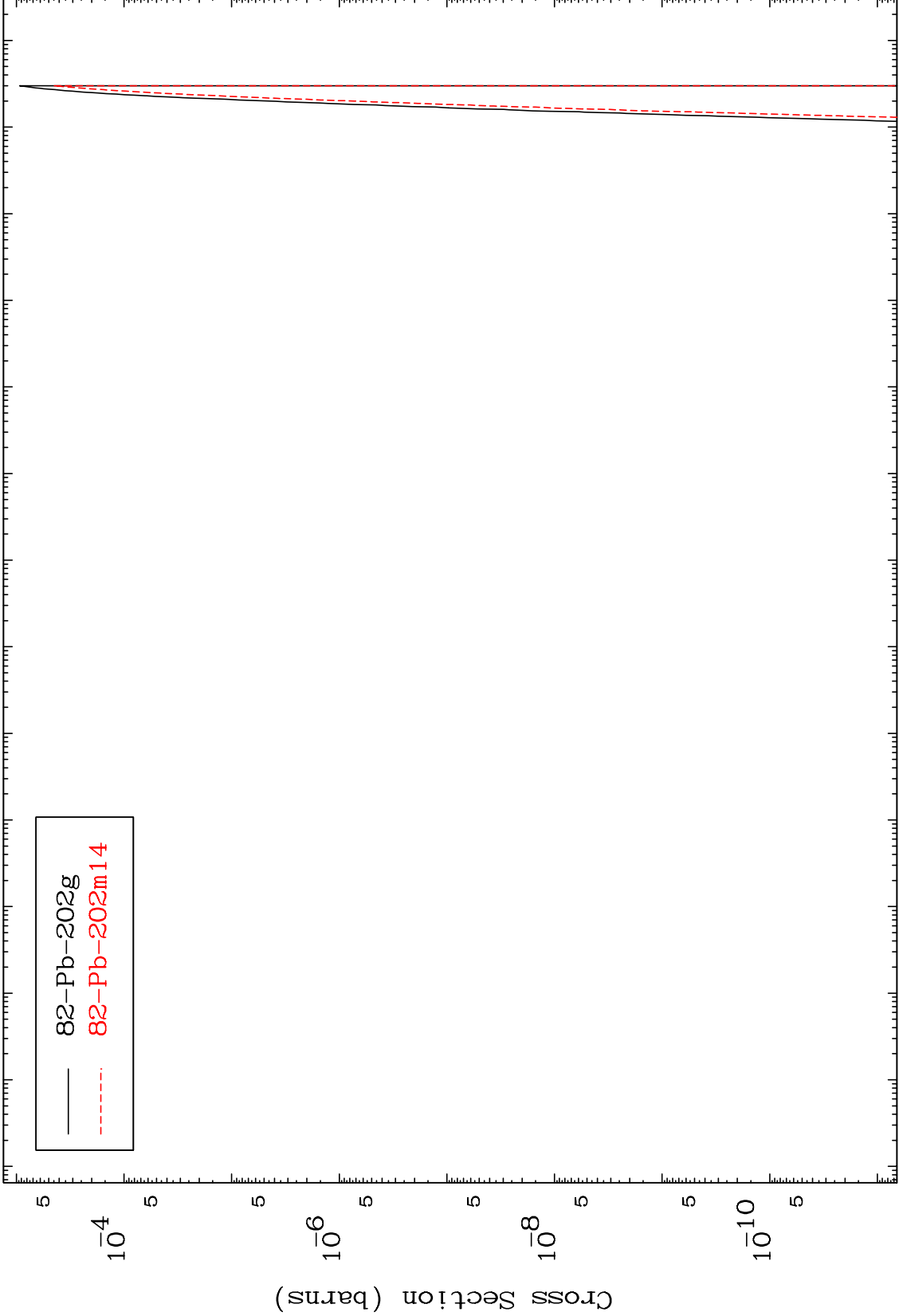
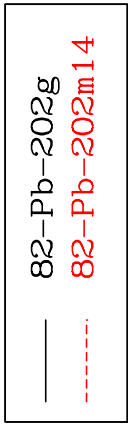
122

MAT 8419

(n,He-3)

84-Po-204

Radionuclide Production Cross Section



84-Po-204

10^0

10^{-2}

10^{-4}

10^{-6}

10^{-8}

10^{-10}

10^{-10}

10^{-8}

10^{-6}

10^{-4}

10^{-2}

10^0

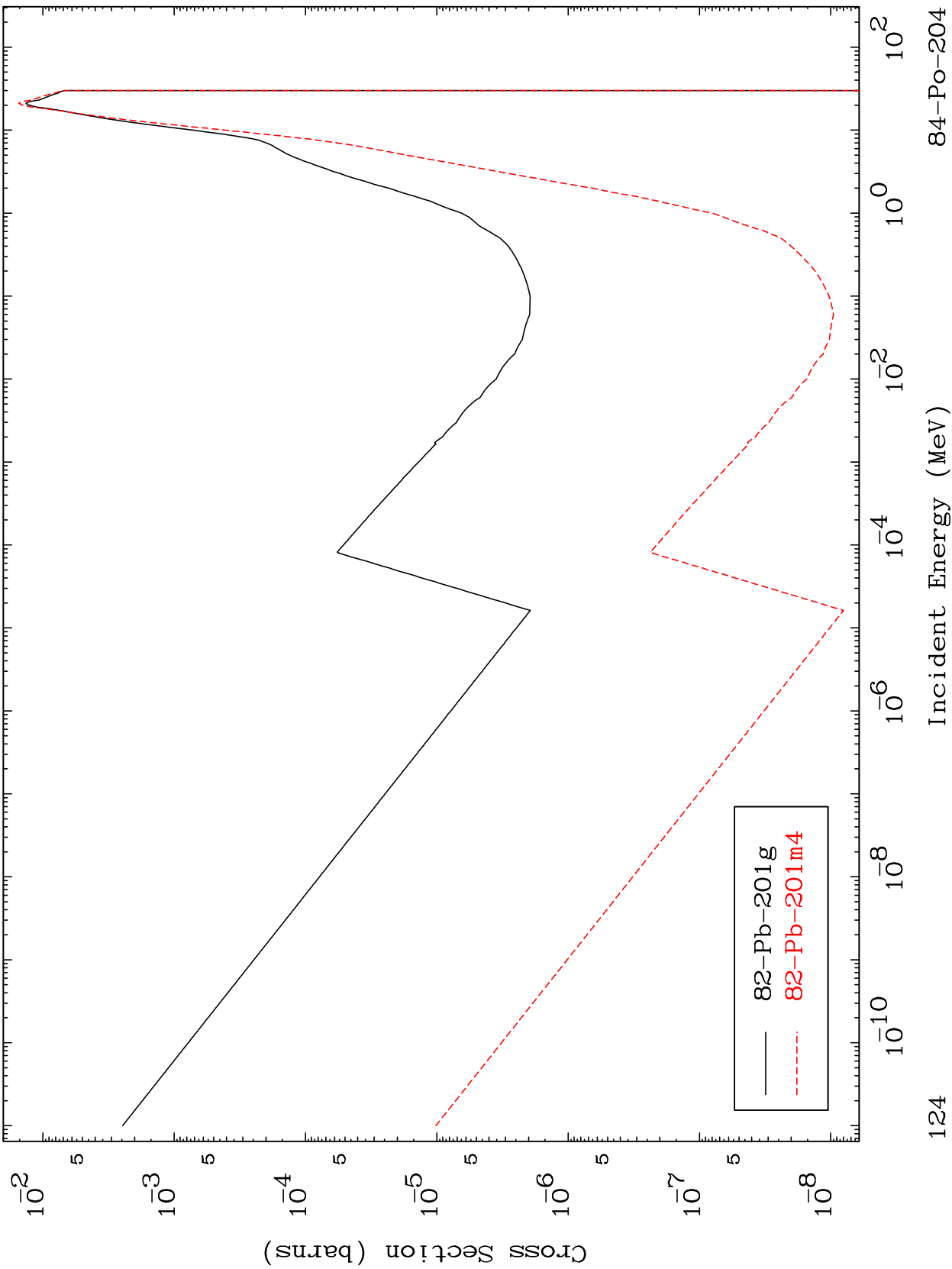
10^2

MAT 8419

(n, α)

84-Po-204

Radionuclide Production Cross Section

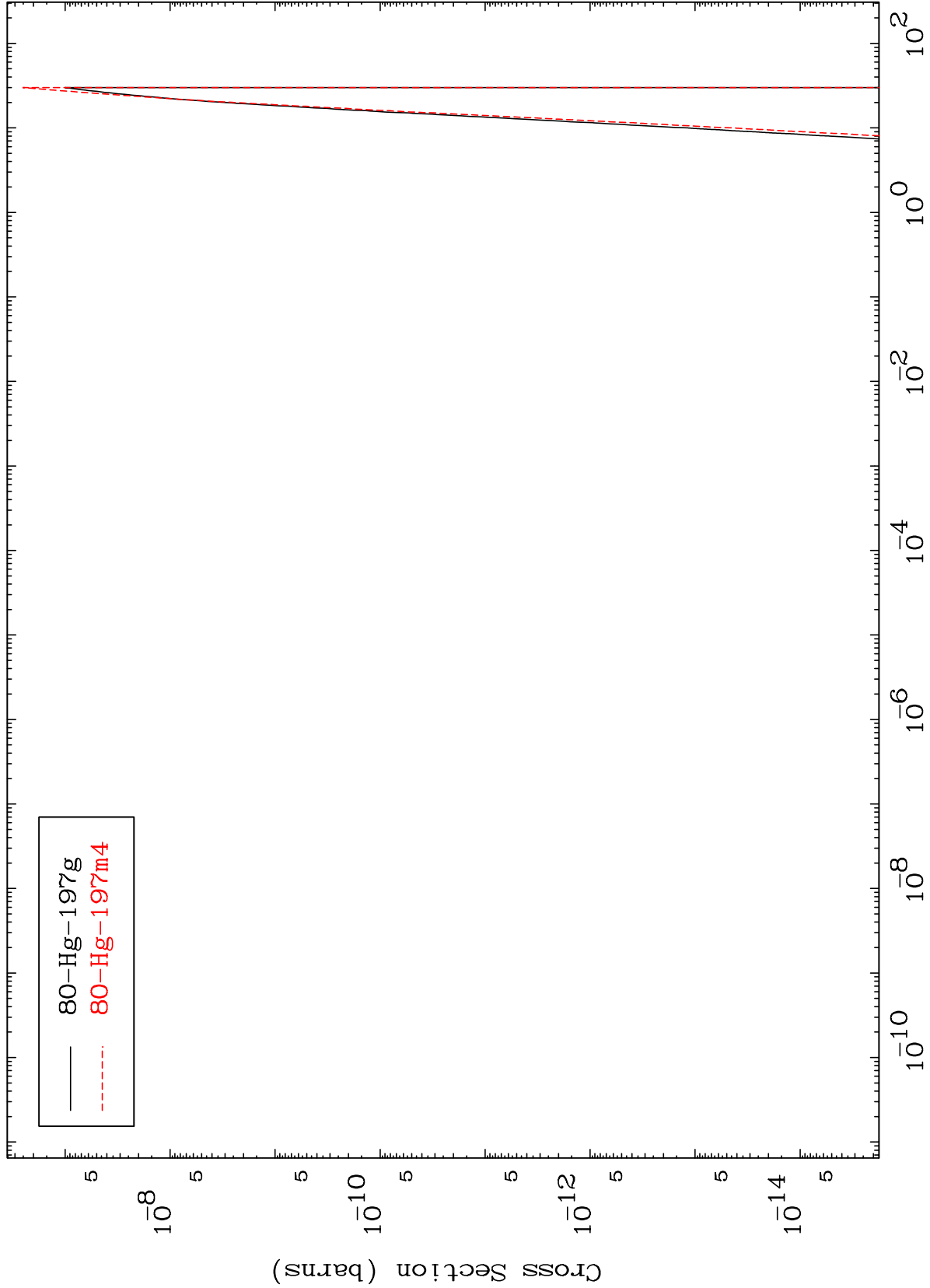


MAT 8419

(n,2α)

84-Po-204

Radionuclide Production Cross Section



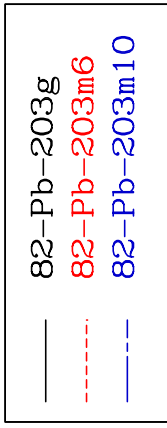
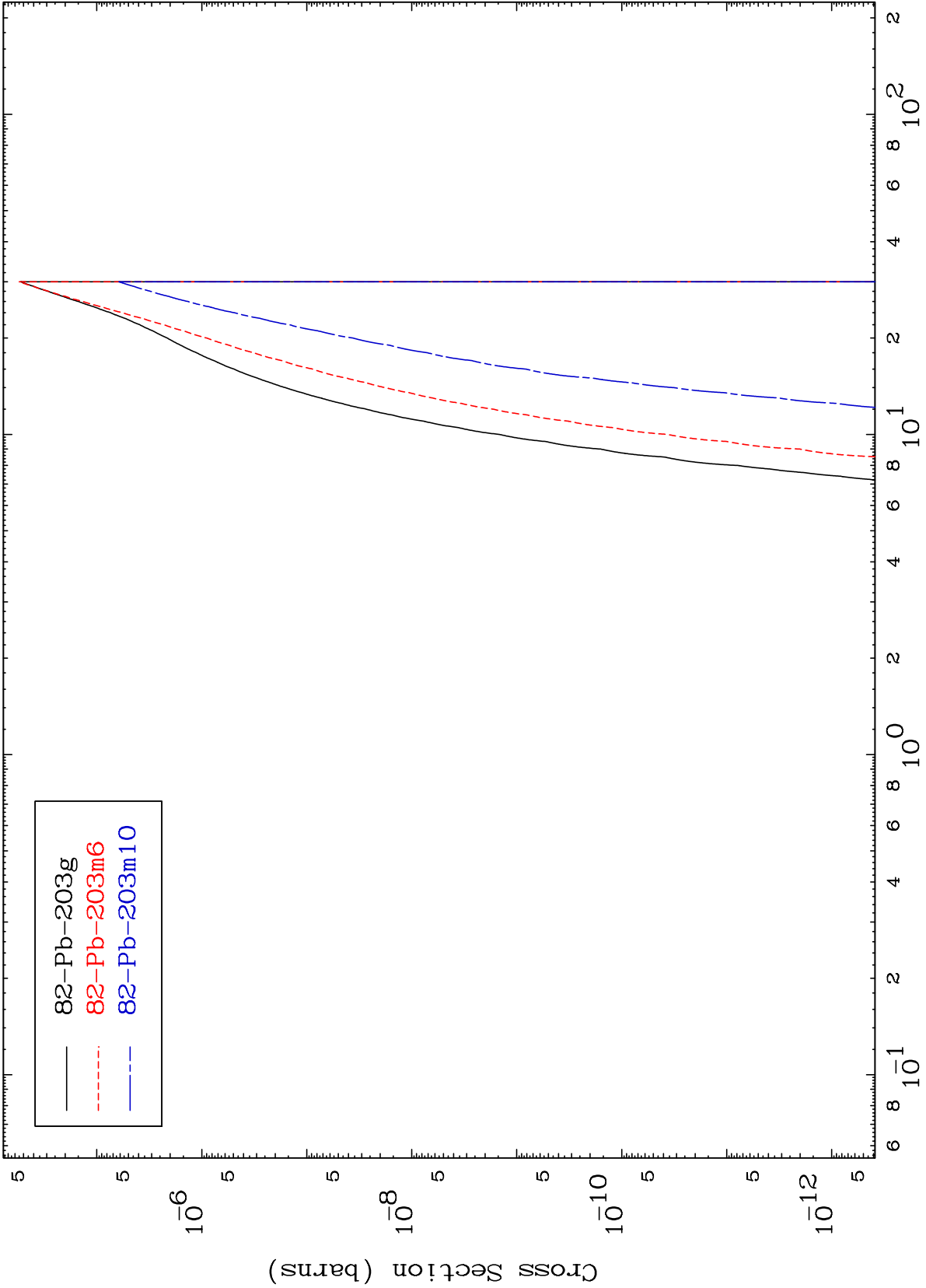
80-Hg-197g
80-Hg-197m4

MAT 8419

(n,2p)

84-Po-204

Radionuclide Production Cross Section



126

Incident Energy (MeV)

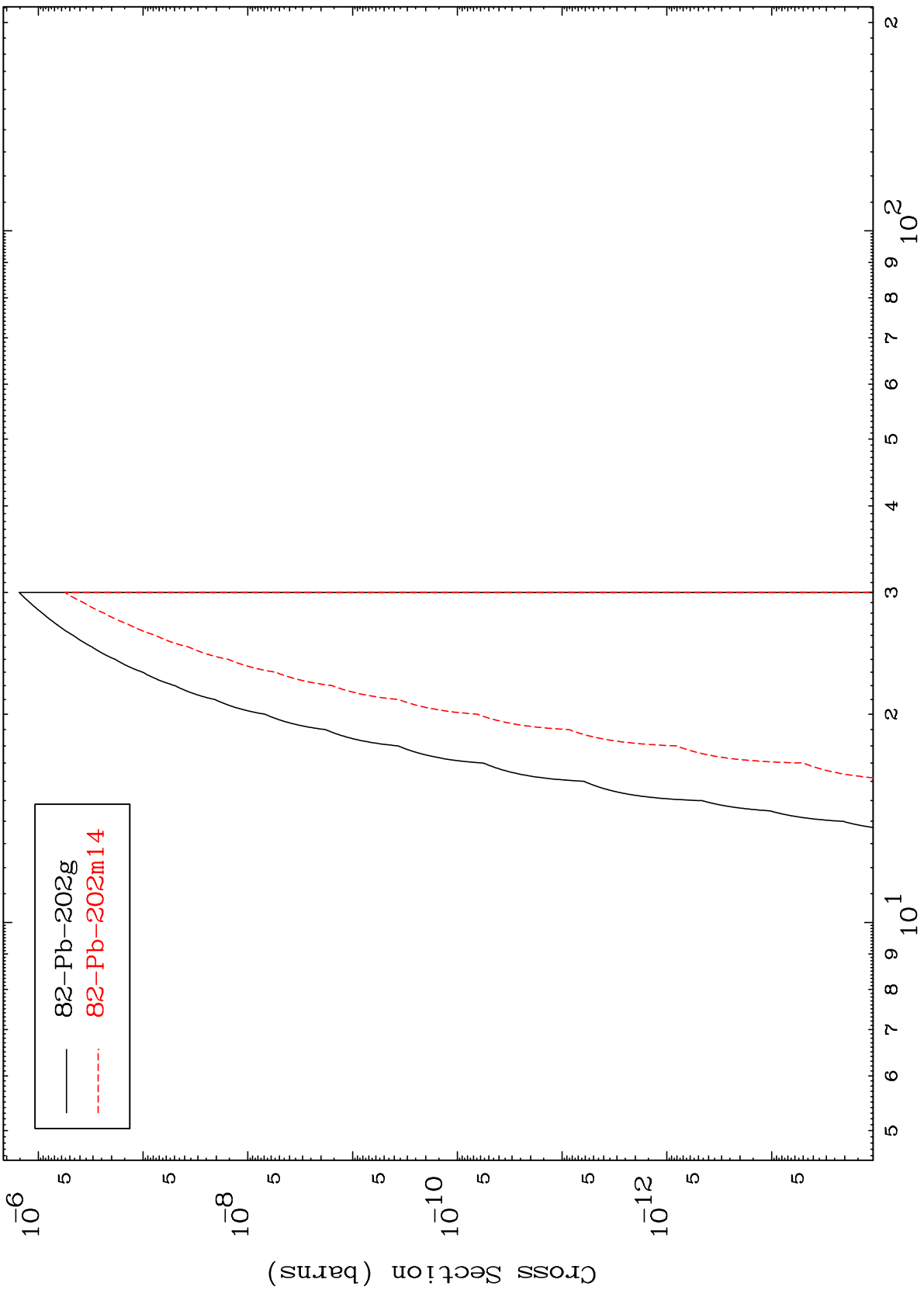
84-Po-204

MAT 8419

(n,p) d

84-Po-204

Radionuclide Production Cross Section



82-Pb-202g
82-Pb-202m14

127

Incident Energy (MeV)

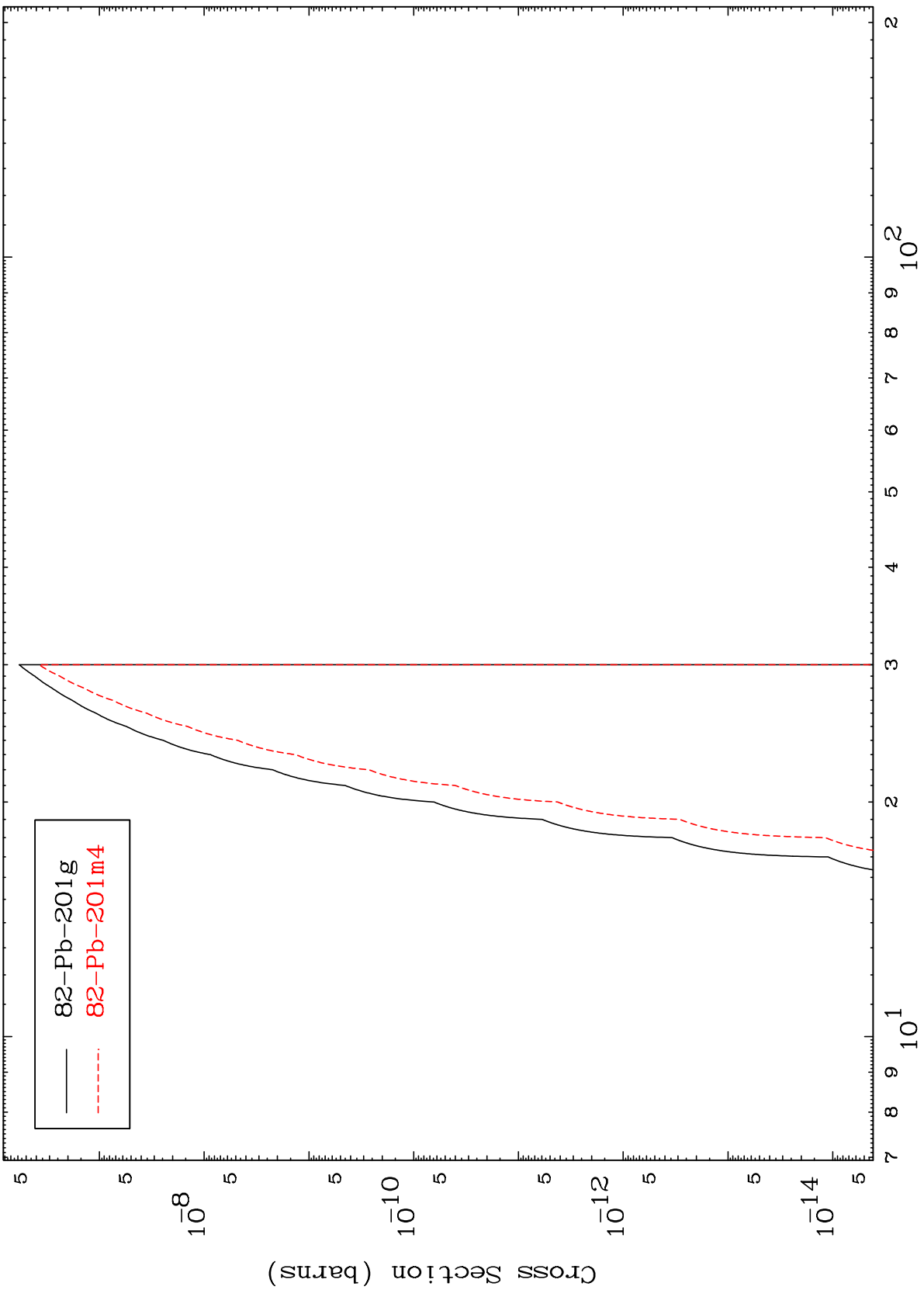
84-Po-204

MAT 8419

(n,p) t

84-Po-204

Radionuclide Production Cross Section



128

Incident Energy (MeV)

84-Po-204