

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

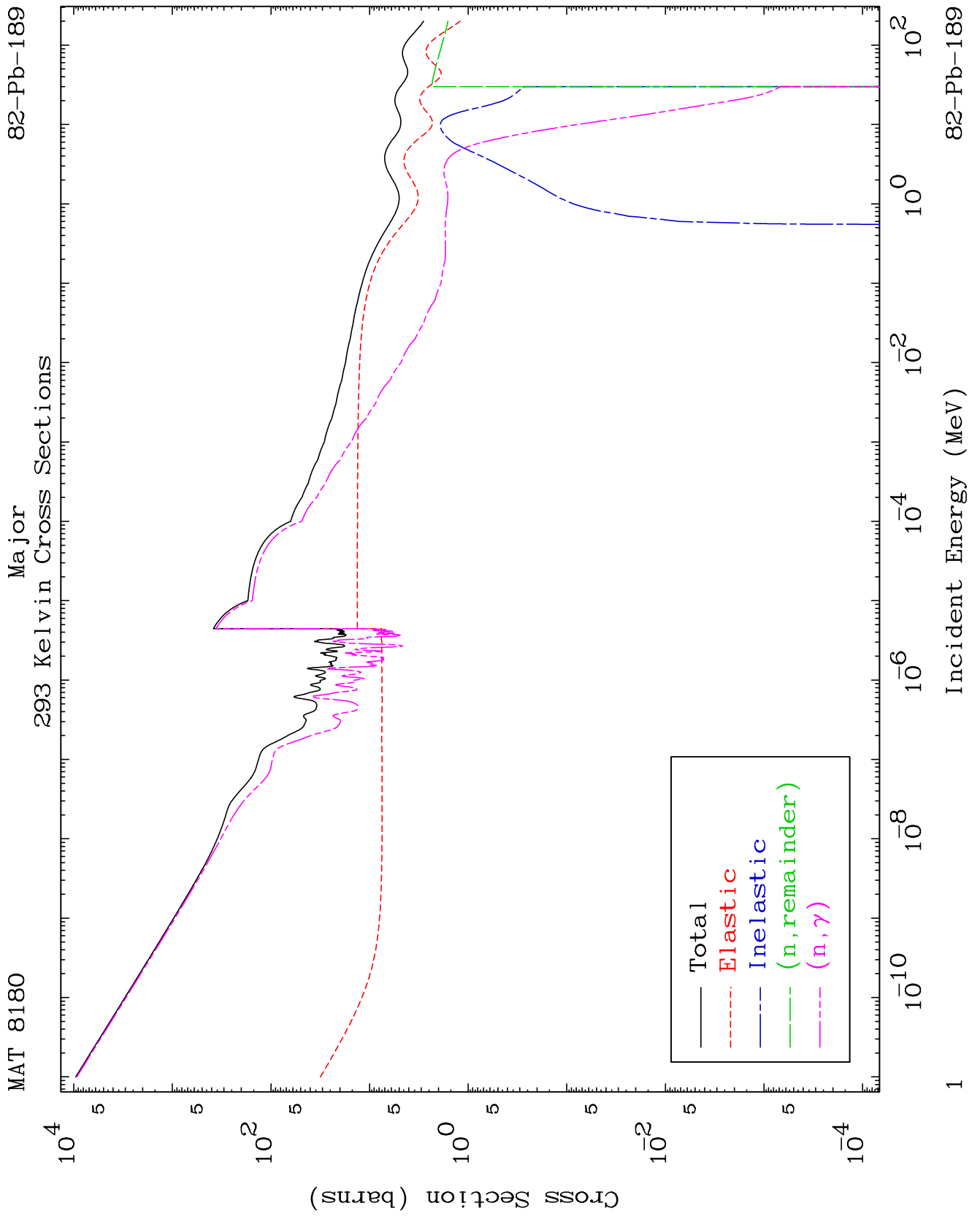
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Livermore, CA 94550
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Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

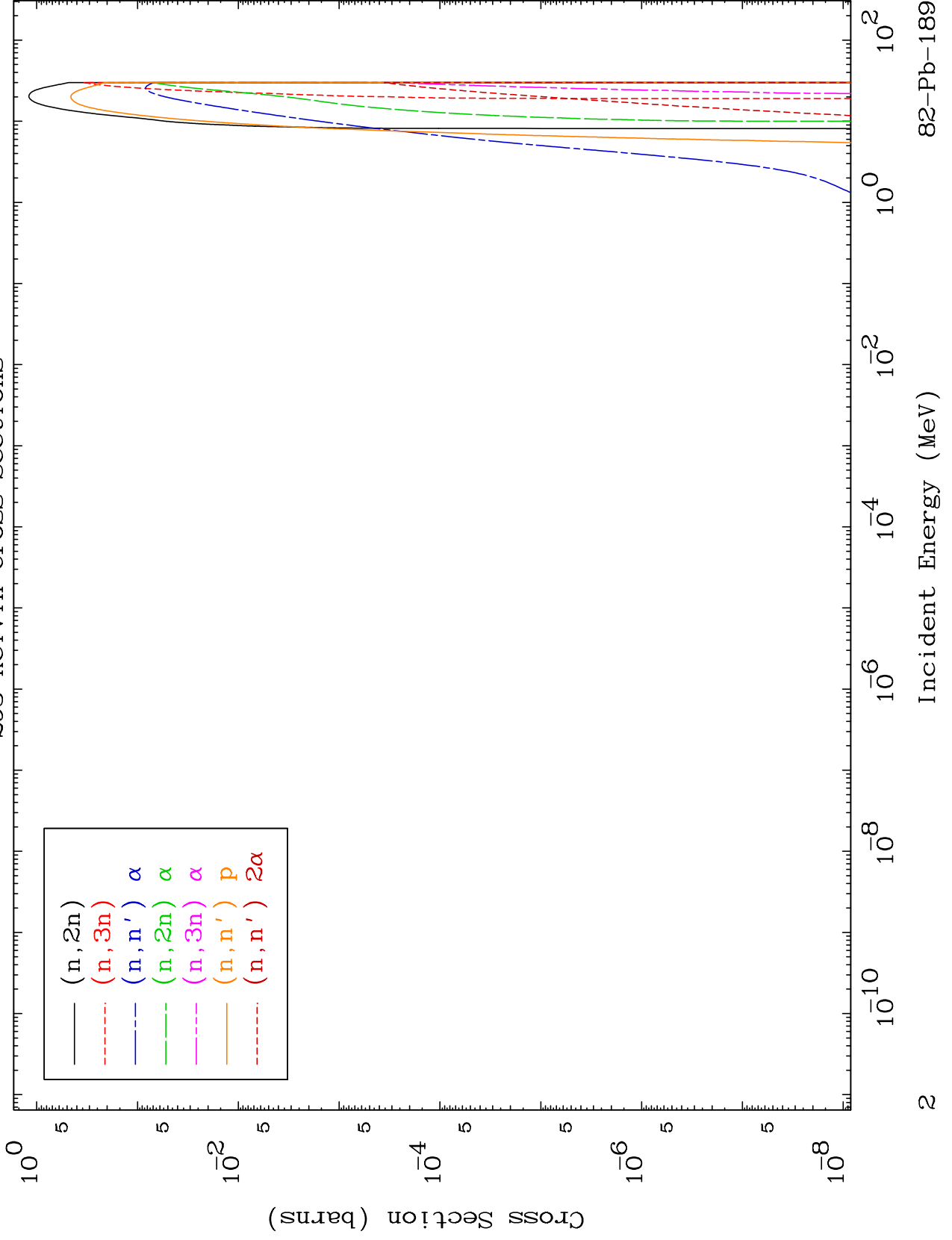
Press Mouse Button to Start



MAT 8180

Neutron Production
293 Kelvin Cross Sections

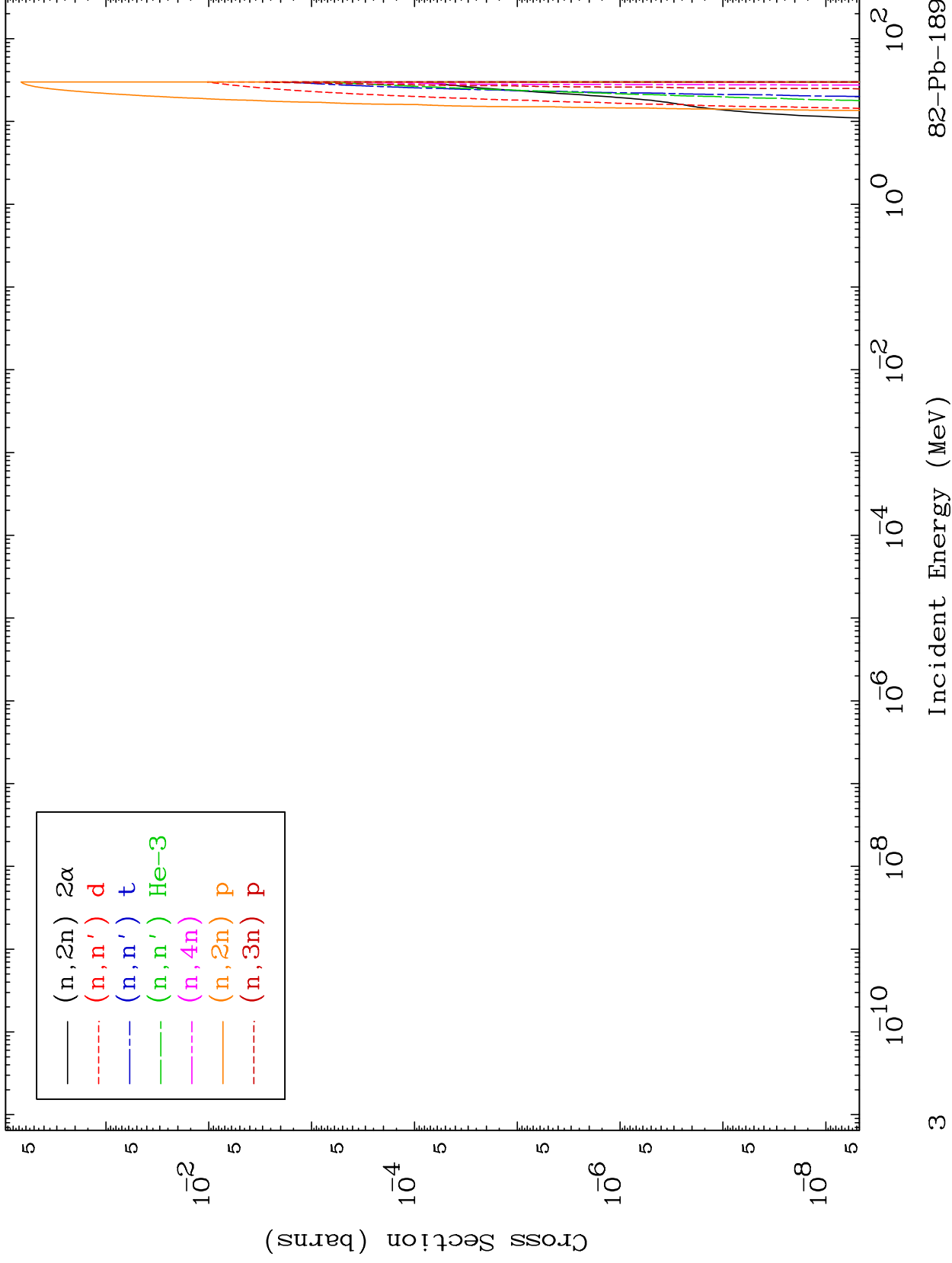
82-Pb-189



MAT 8180

Neutron Production
293 Kelvin Cross Sections

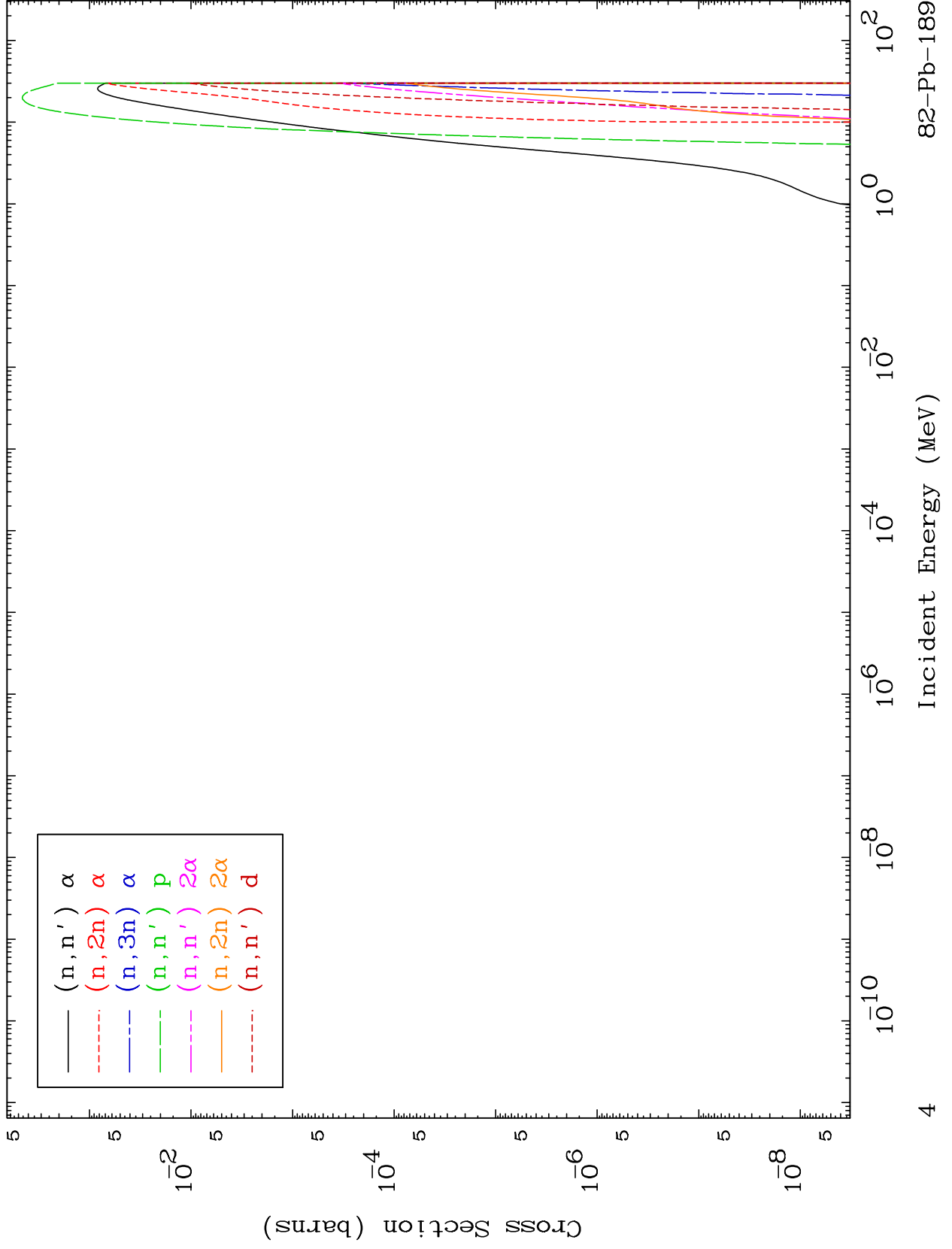
82-Pb-189



MAT 8180

Charged Particle
293 Kelvin Cross Sections

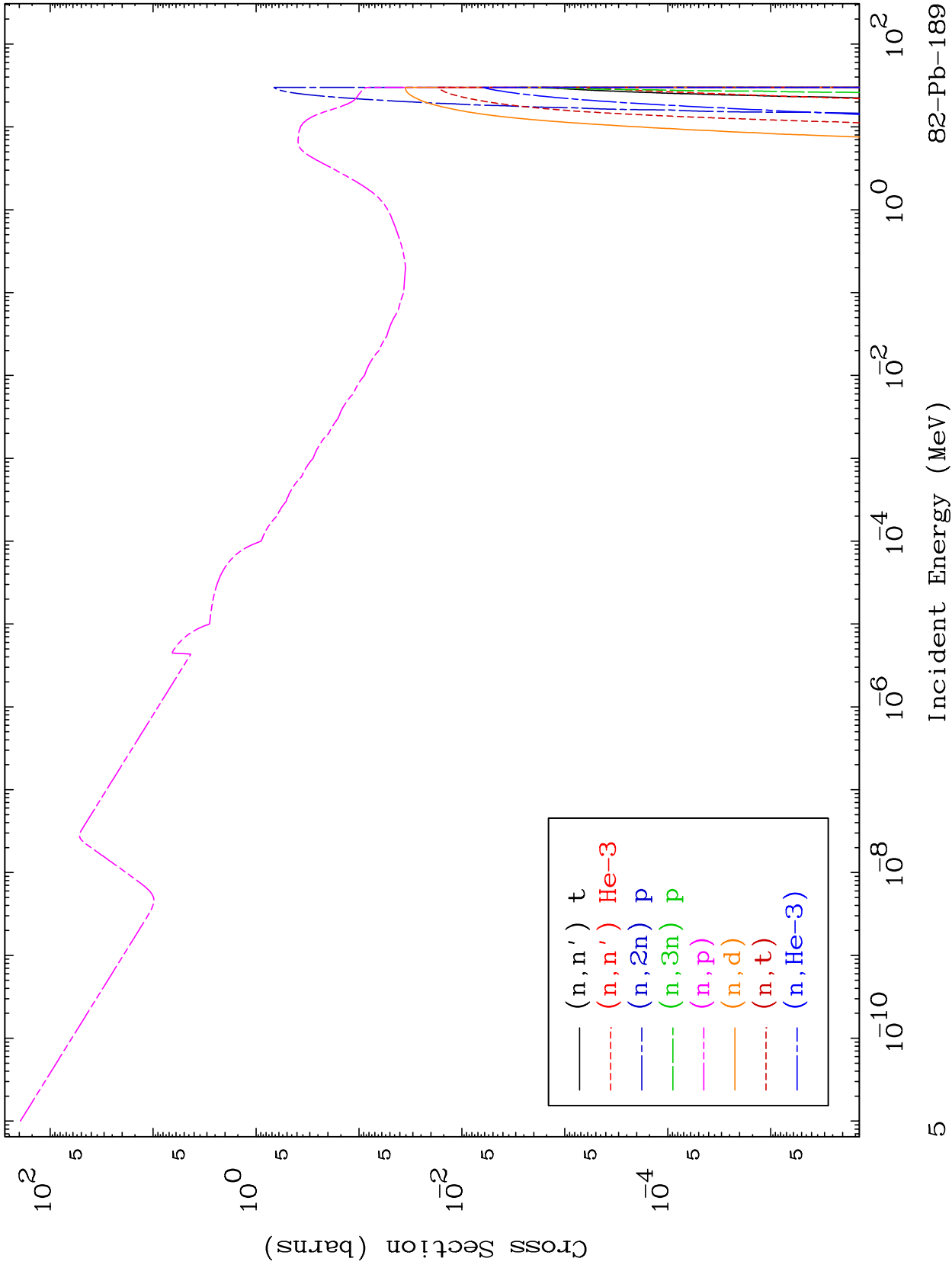
82-Pb-189



MAT 8180

Charged Particle
293 Kelvin Cross Sections

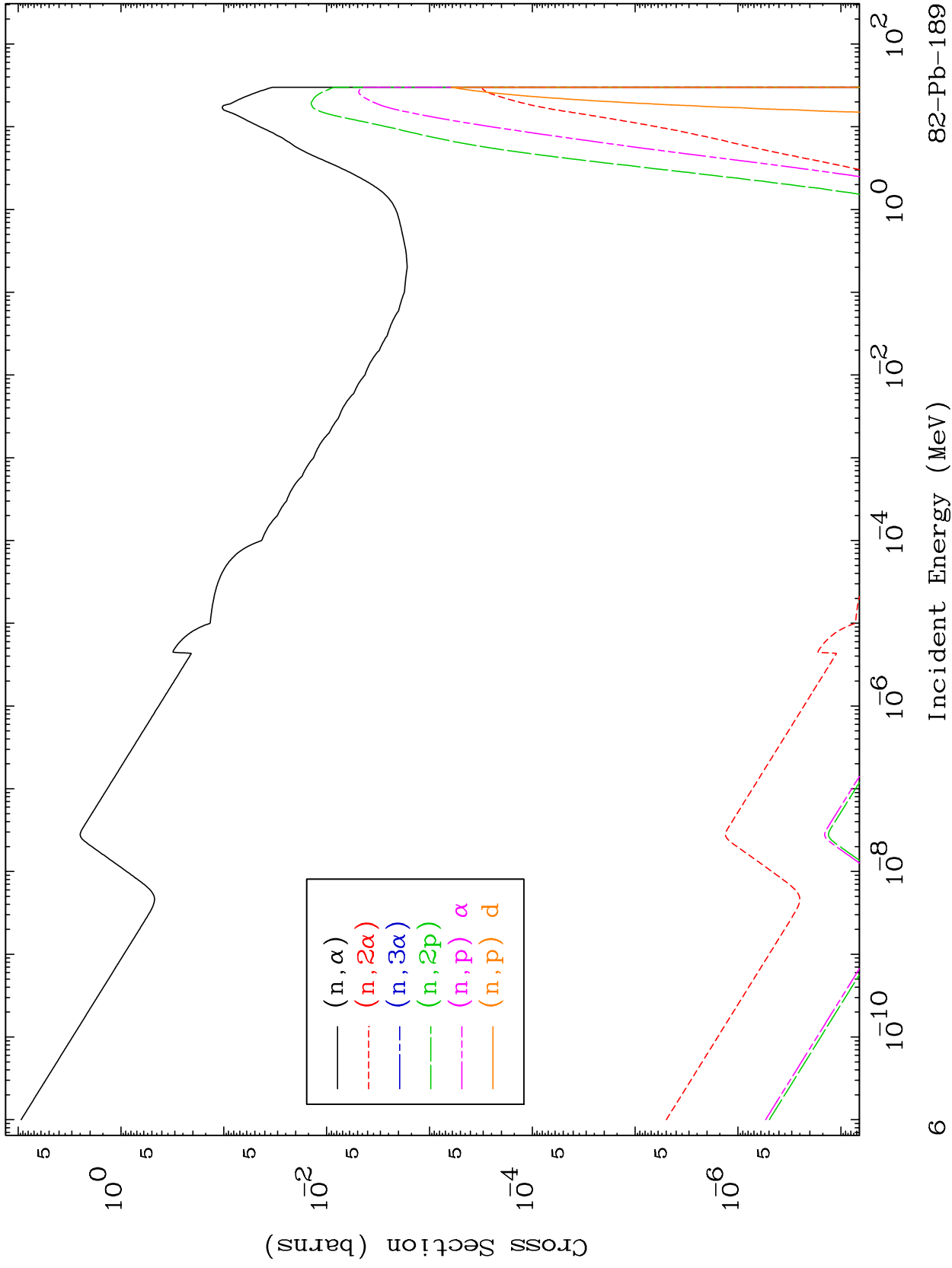
82-Pb-189



MAT 8180

Charged Particle
293 Kelvin Cross Sections

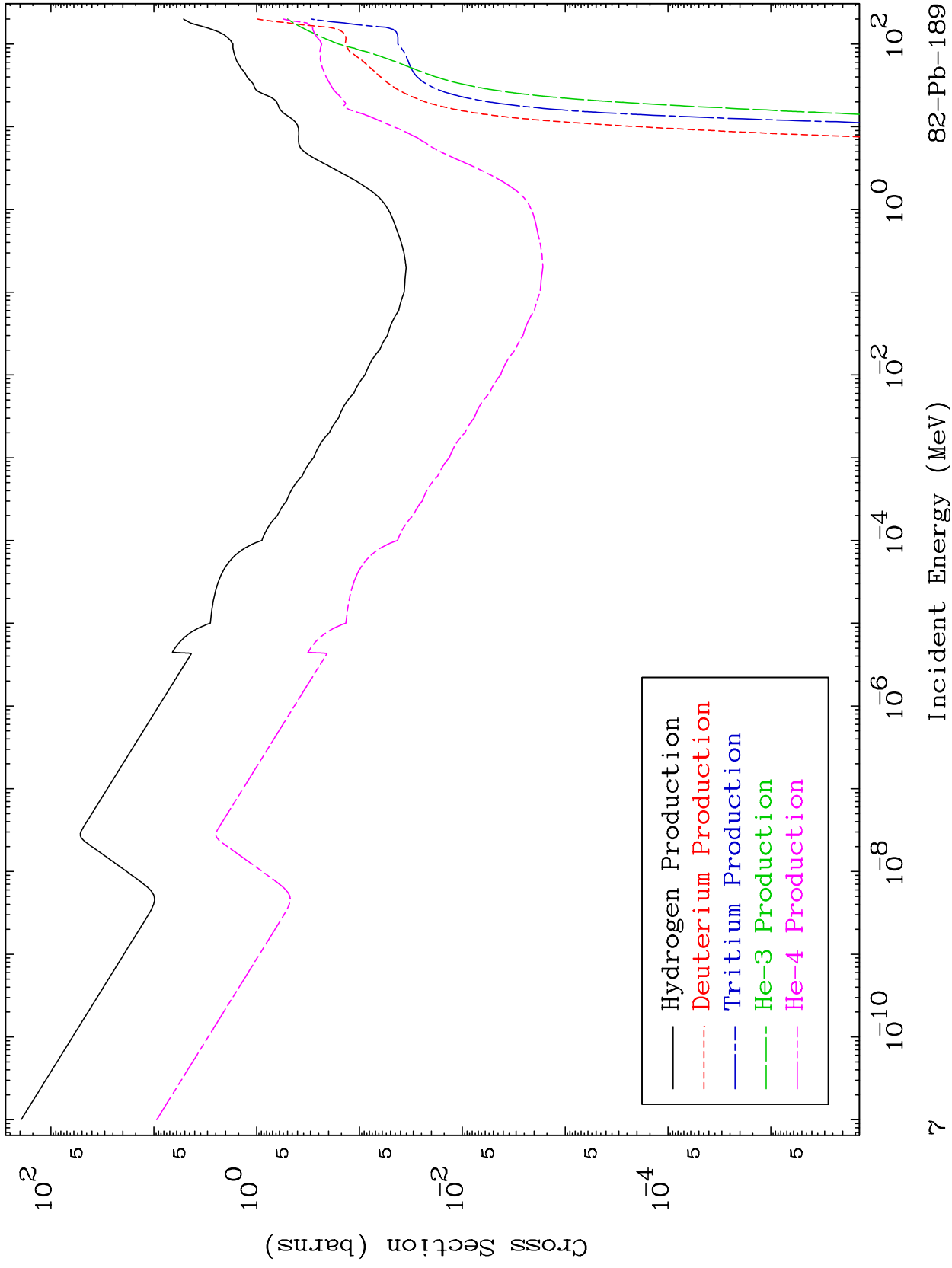
82-Pb-189



MAT 8180

Particle Production
293 Kelvin Cross Sections

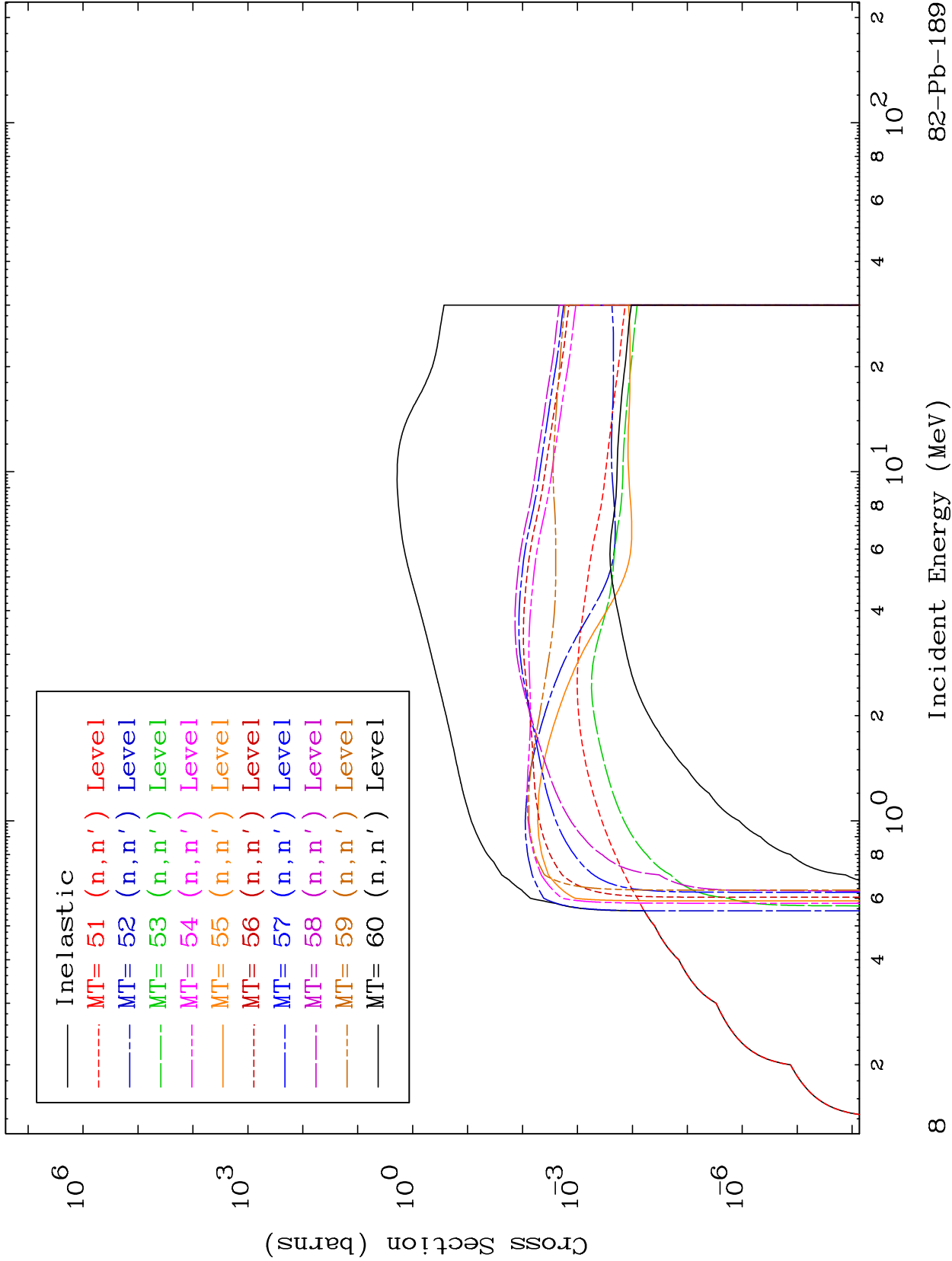
82-Pb-189



MAT 8180

(n,n') Level
293 Kelvin Cross Sections

82-Pb-189

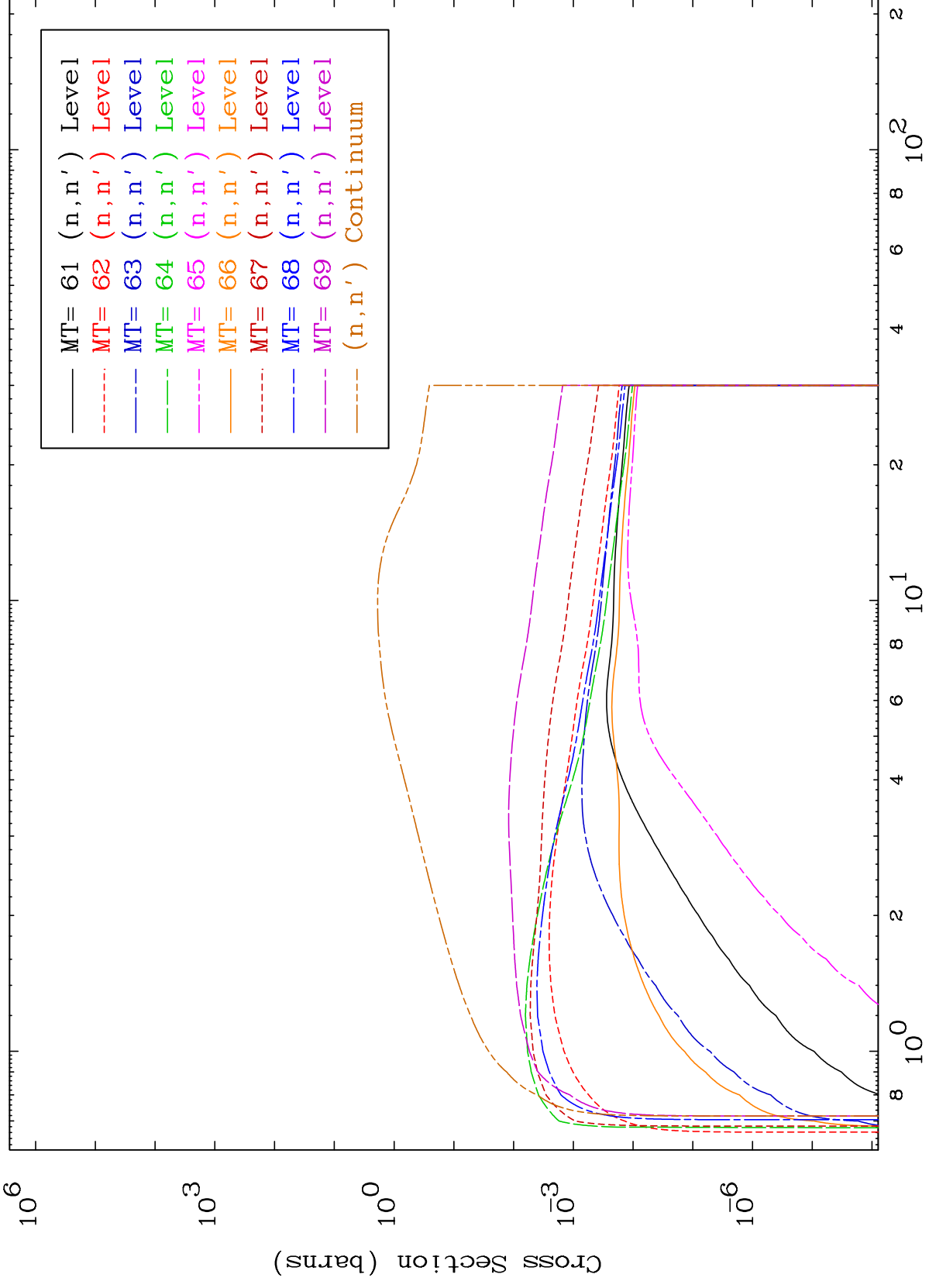


MAT 8180

(n,n') Level

82-Pb-189

293 Kelvin Cross Sections



9

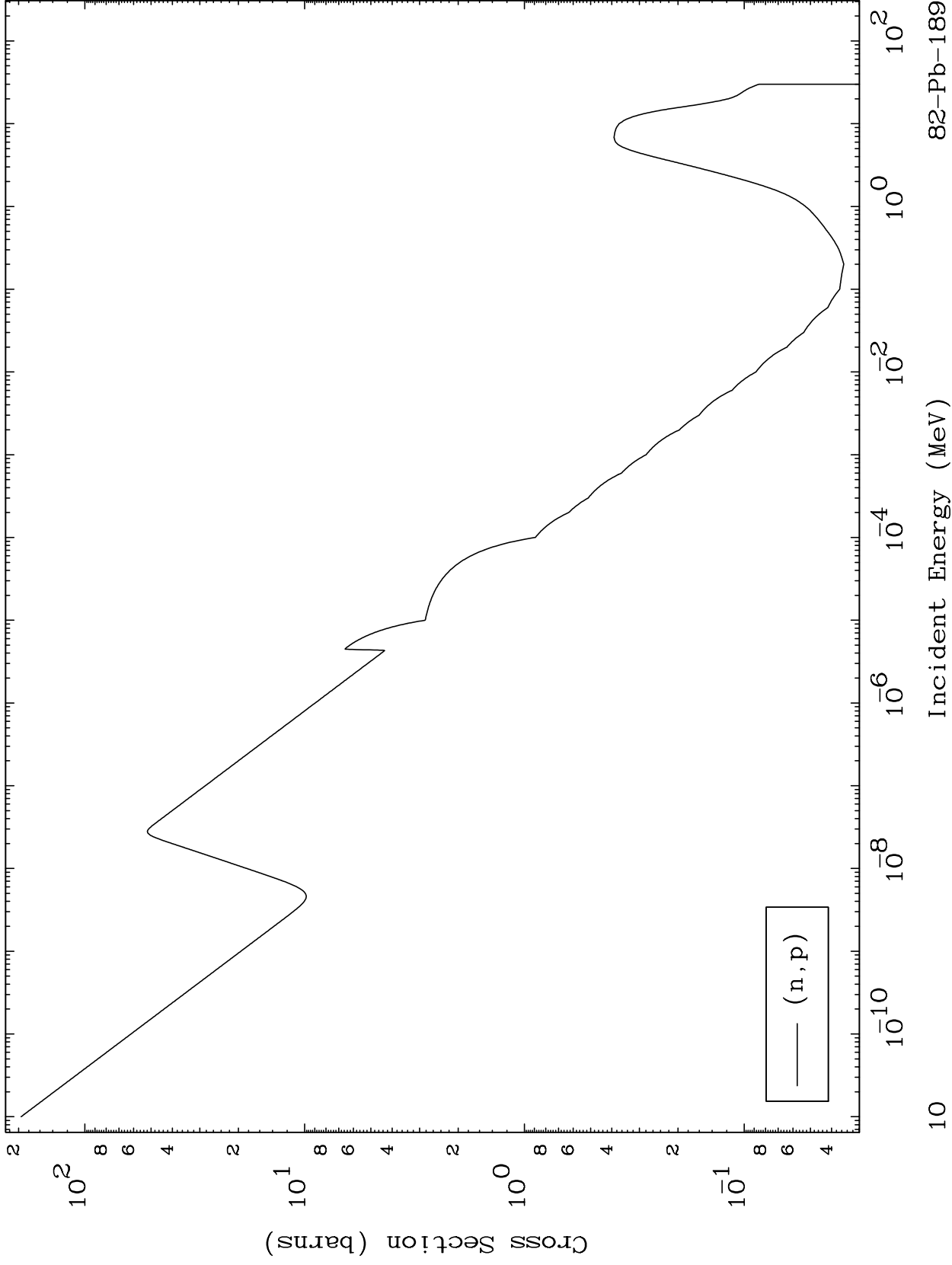
Incident Energy (MeV)

82-Pb-189

MAT 8180

(n,p) Levels
293 Kelvin Cross Sections

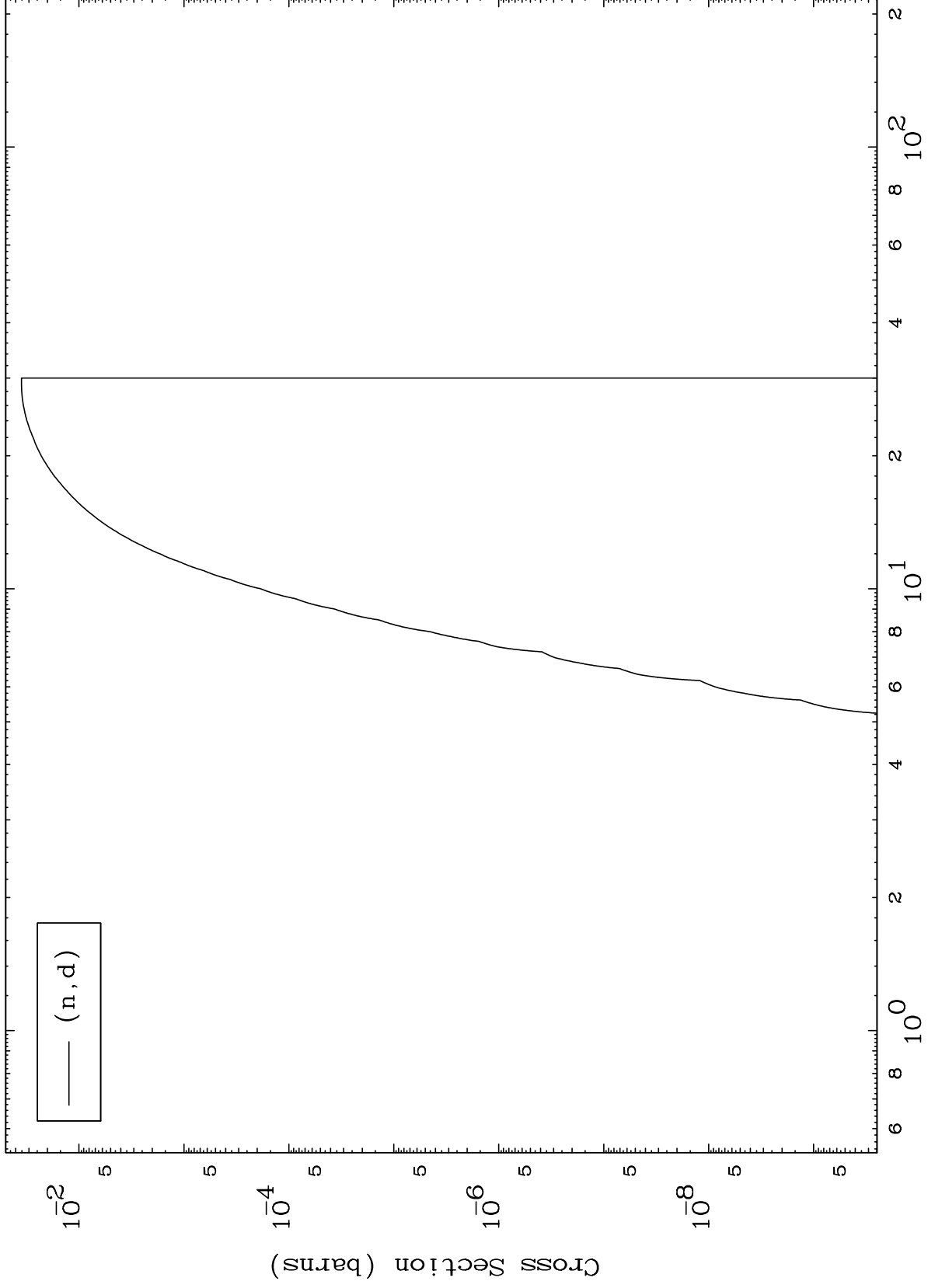
82-Pb-189



MAT 8180

(n,d) Levels
293 Kelvin Cross Sections

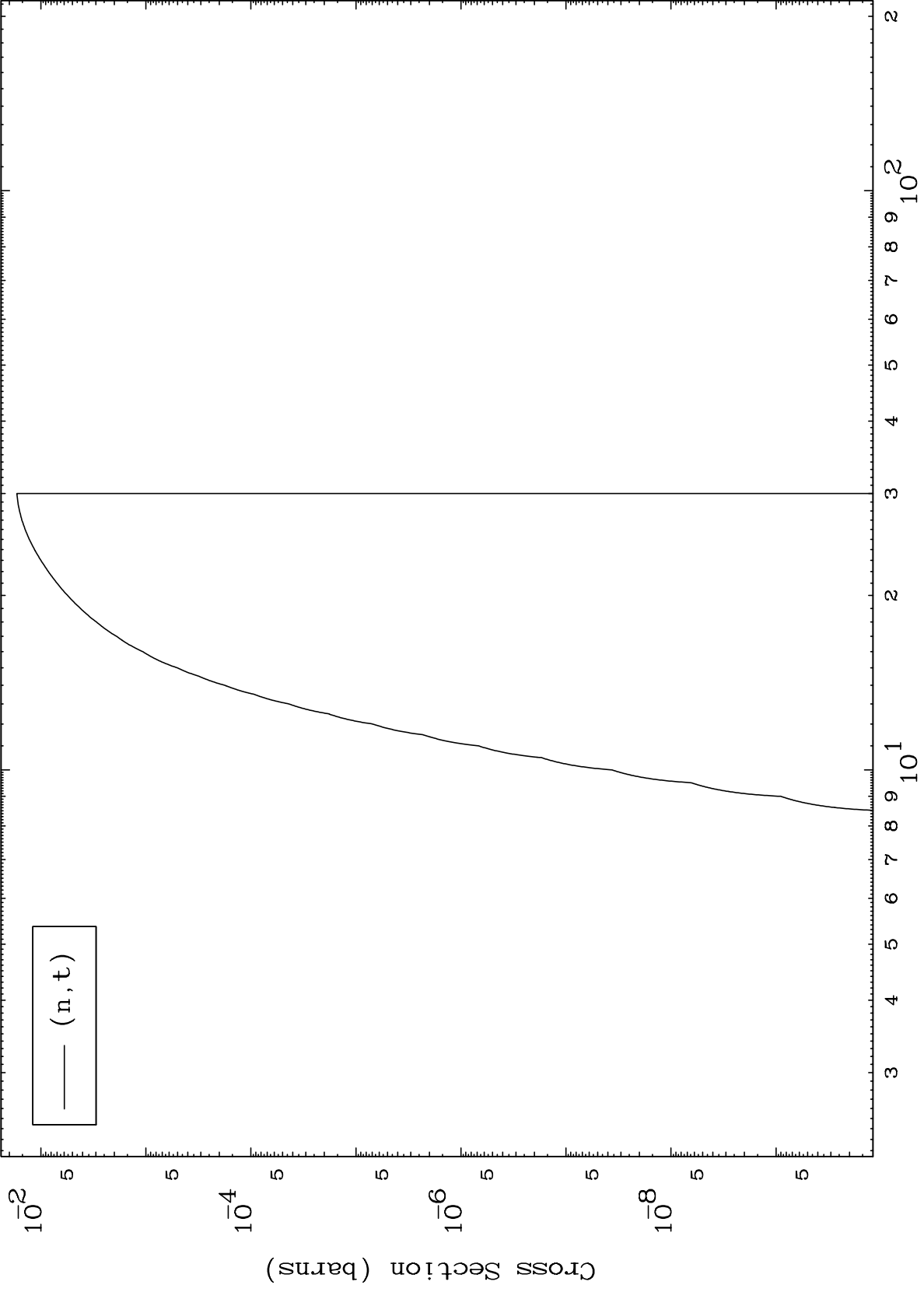
82-Pb-189



MAT 8180

(n,t) Levels
293 Kelvin Cross Sections

82-Pb-189



12

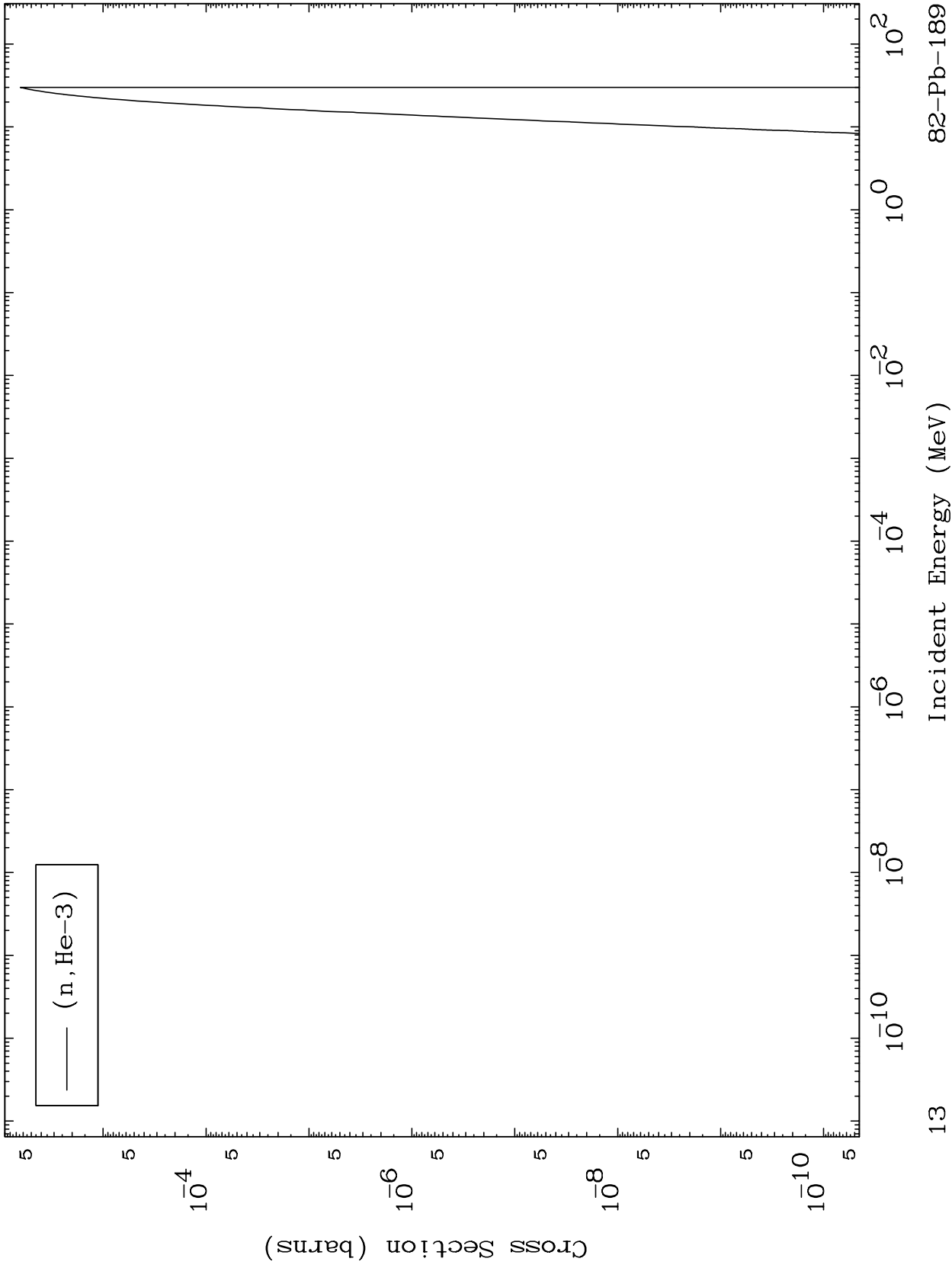
Incident Energy (MeV)

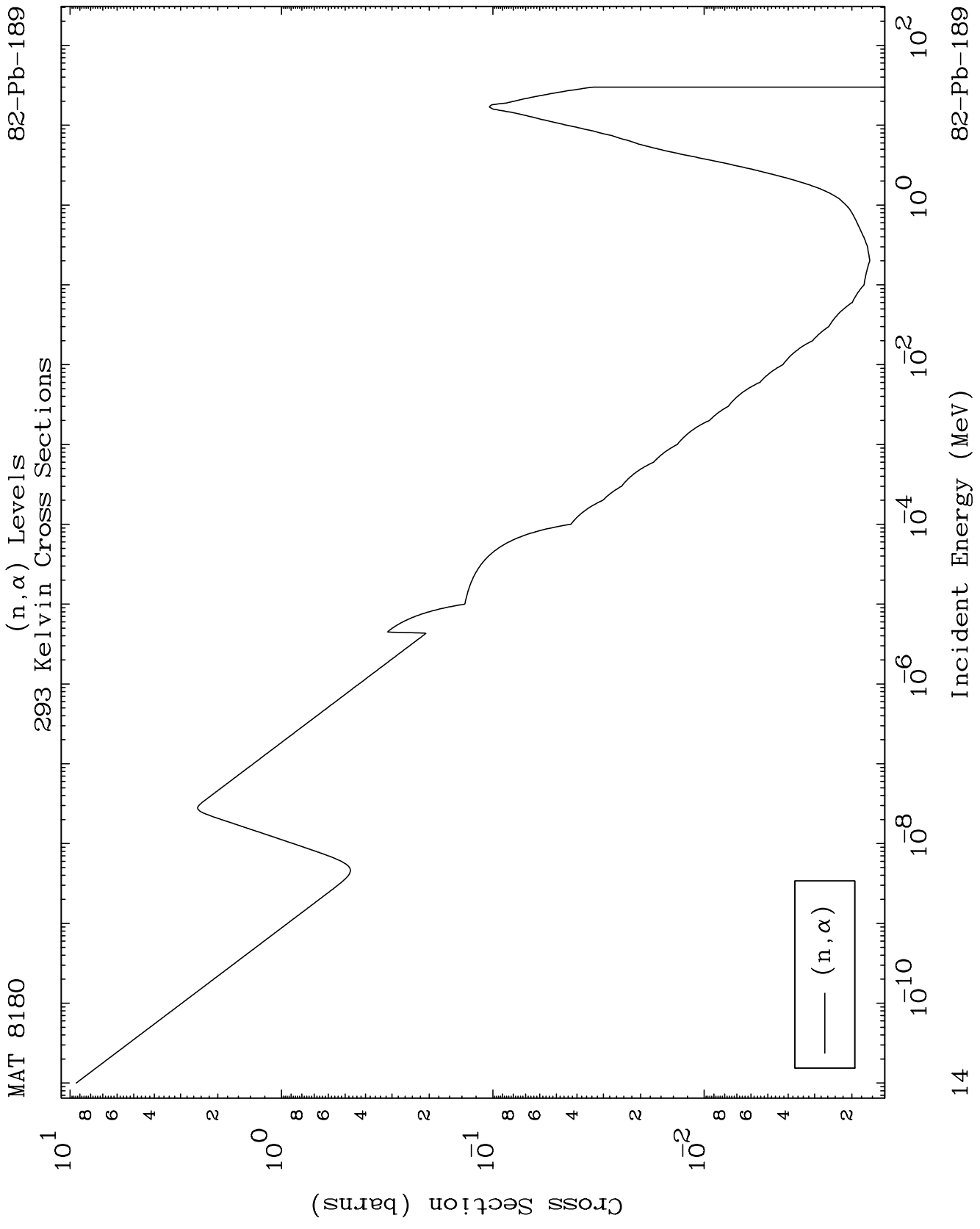
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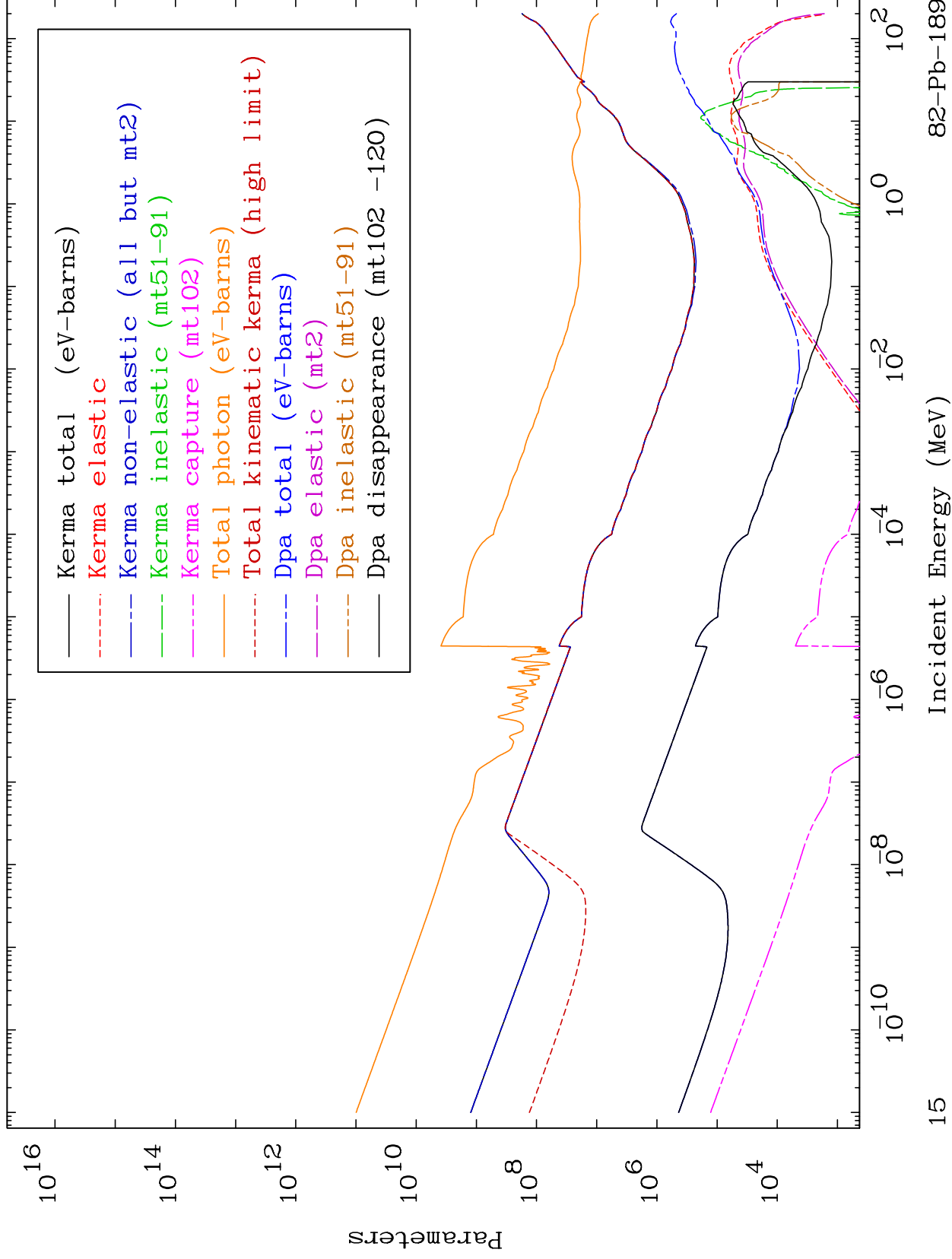
MAT 8180

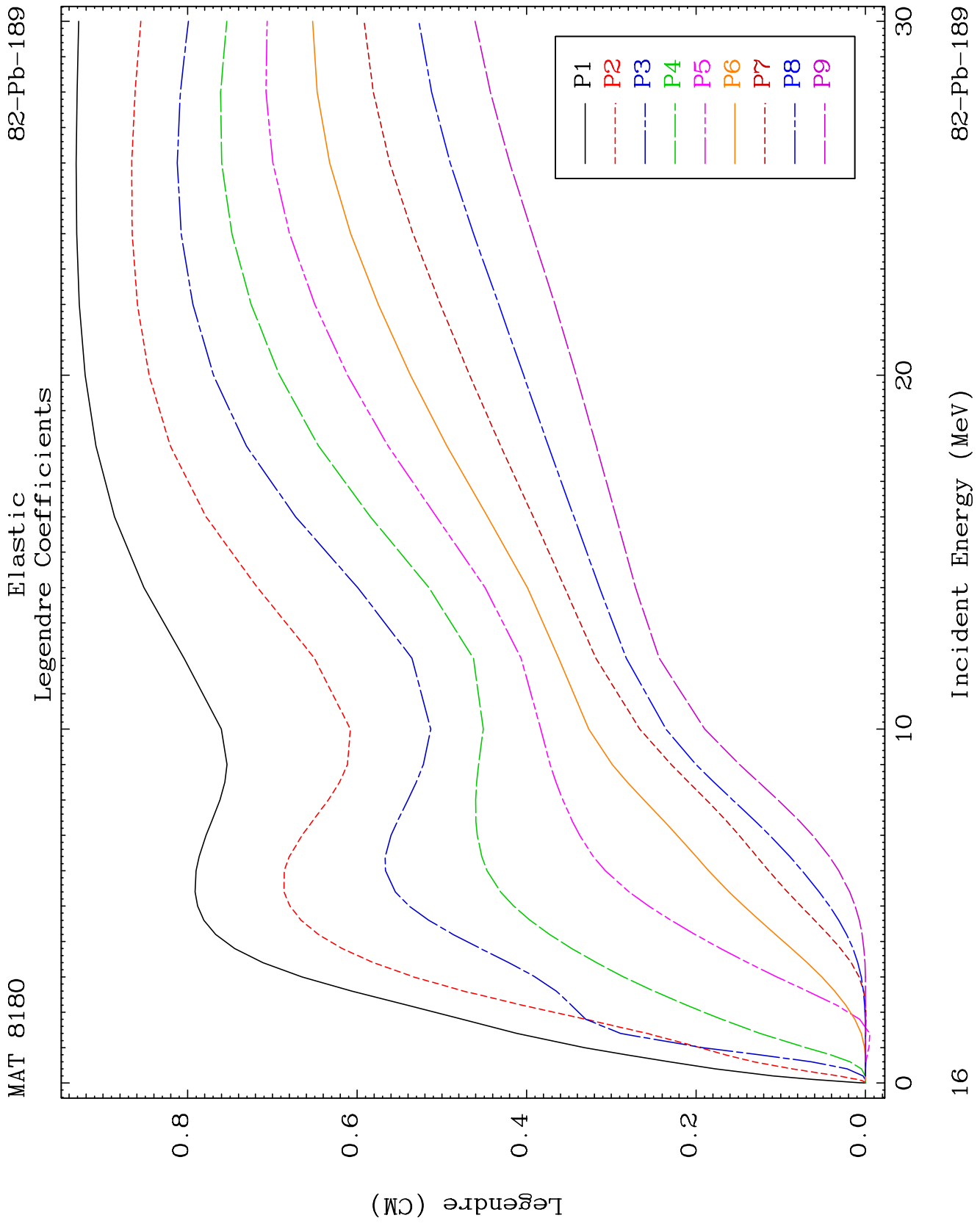
(n,He3) Levels
293 Kelvin Cross Sections

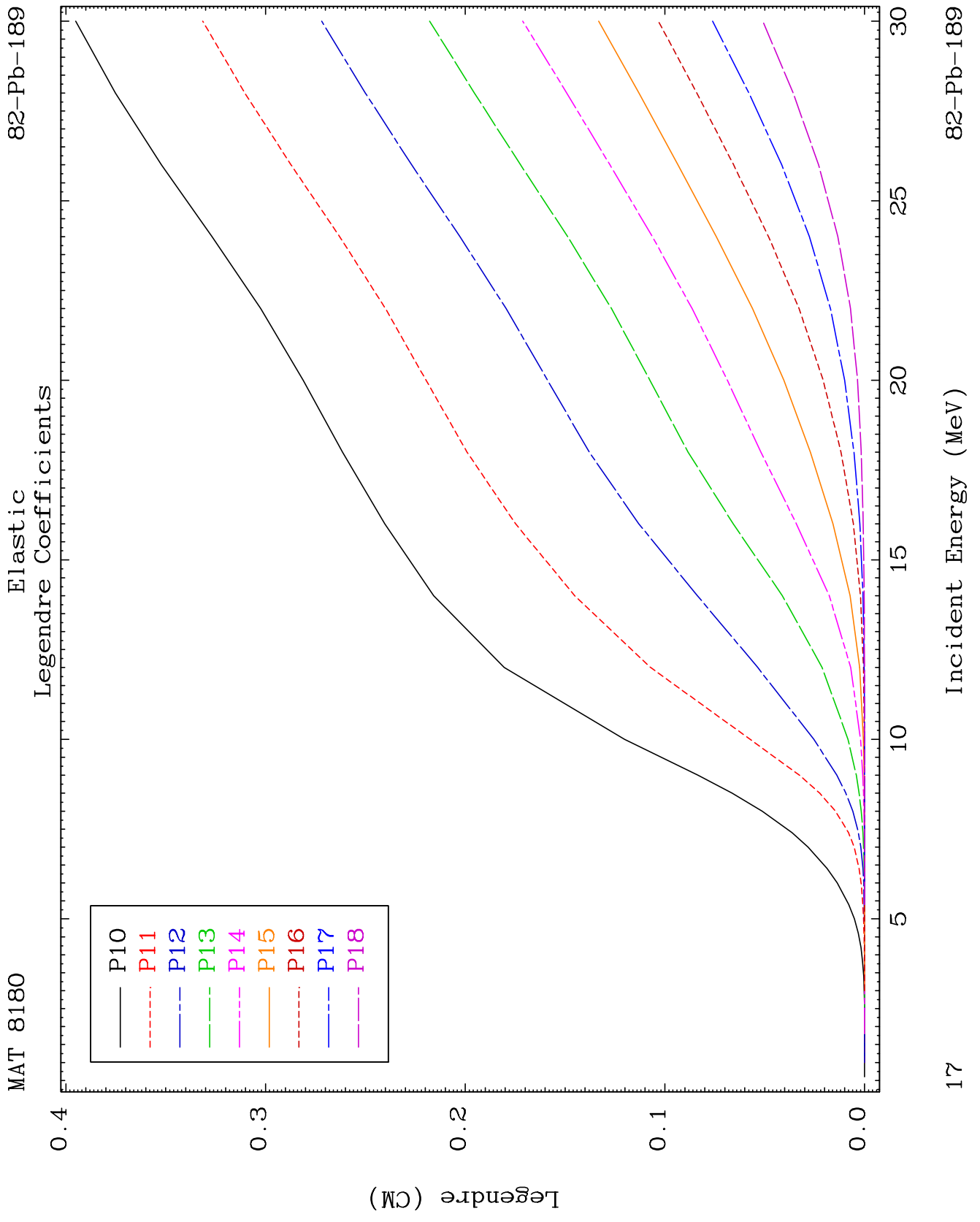
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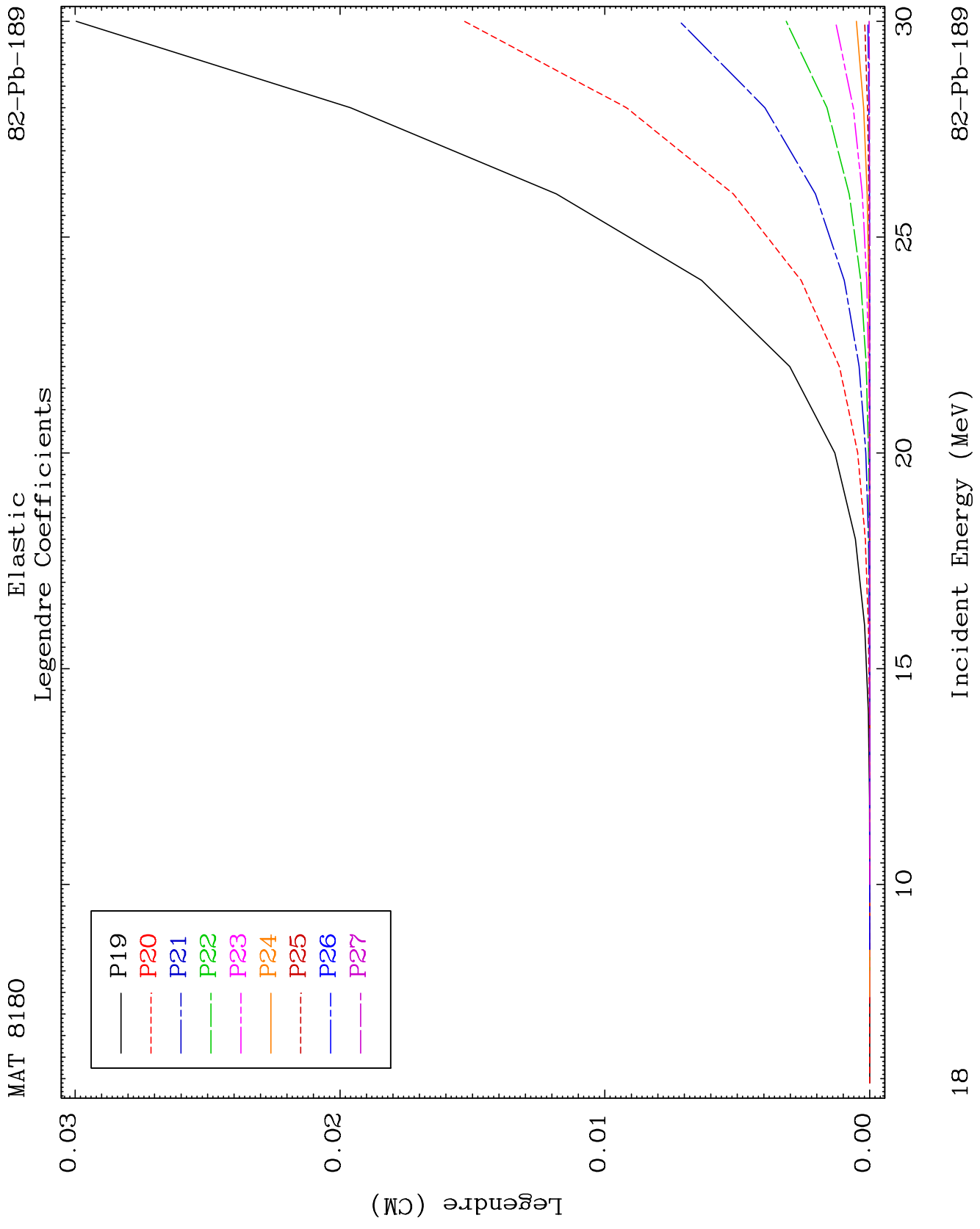








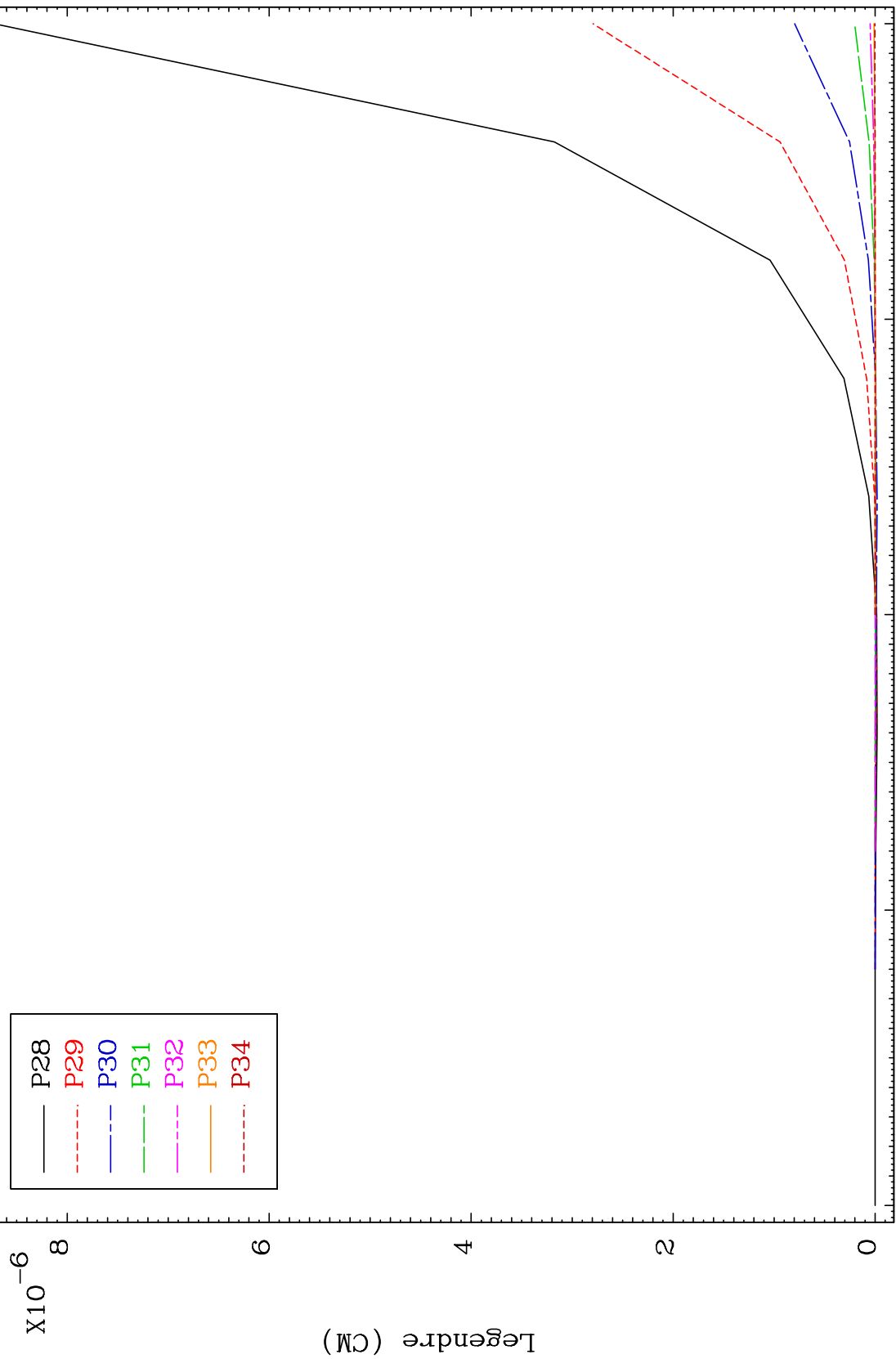
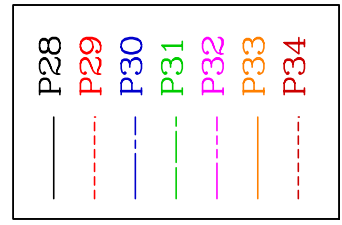




MAT 8180

Elastic Legendre Coefficients

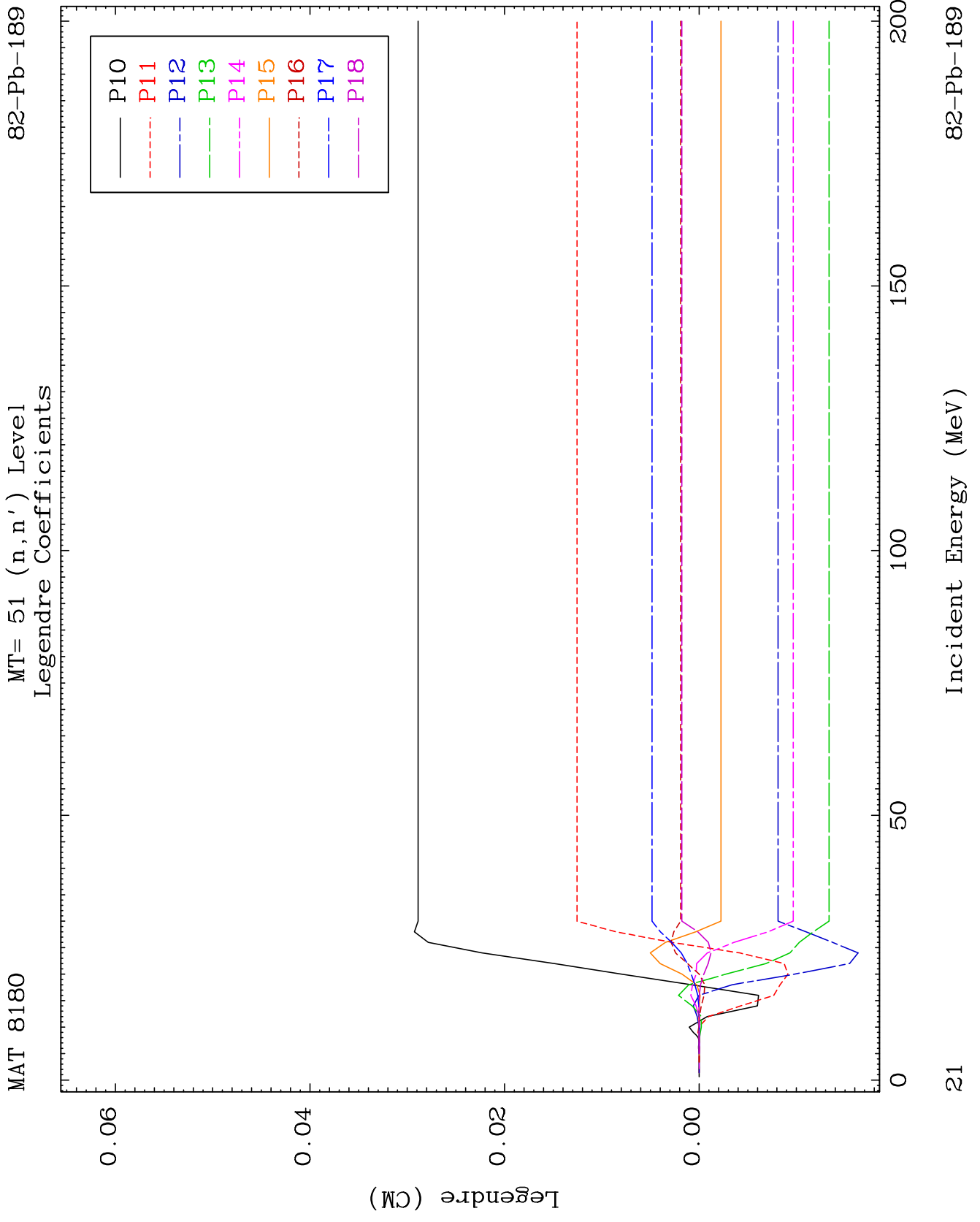
82-Pb-189



19

Incident Energy (MeV)

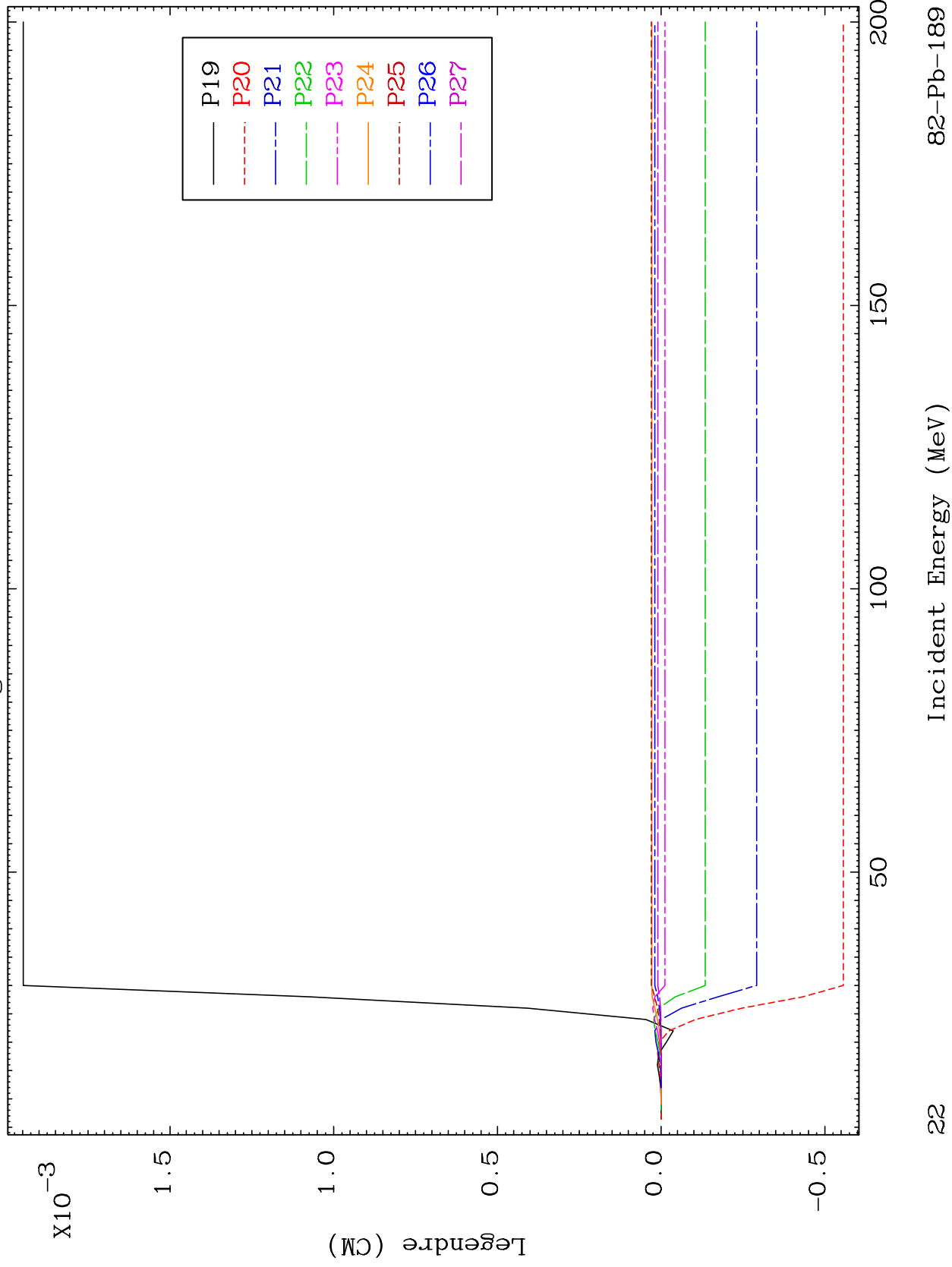
82-Pb-189



MAT 8180

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

82-Pb-189



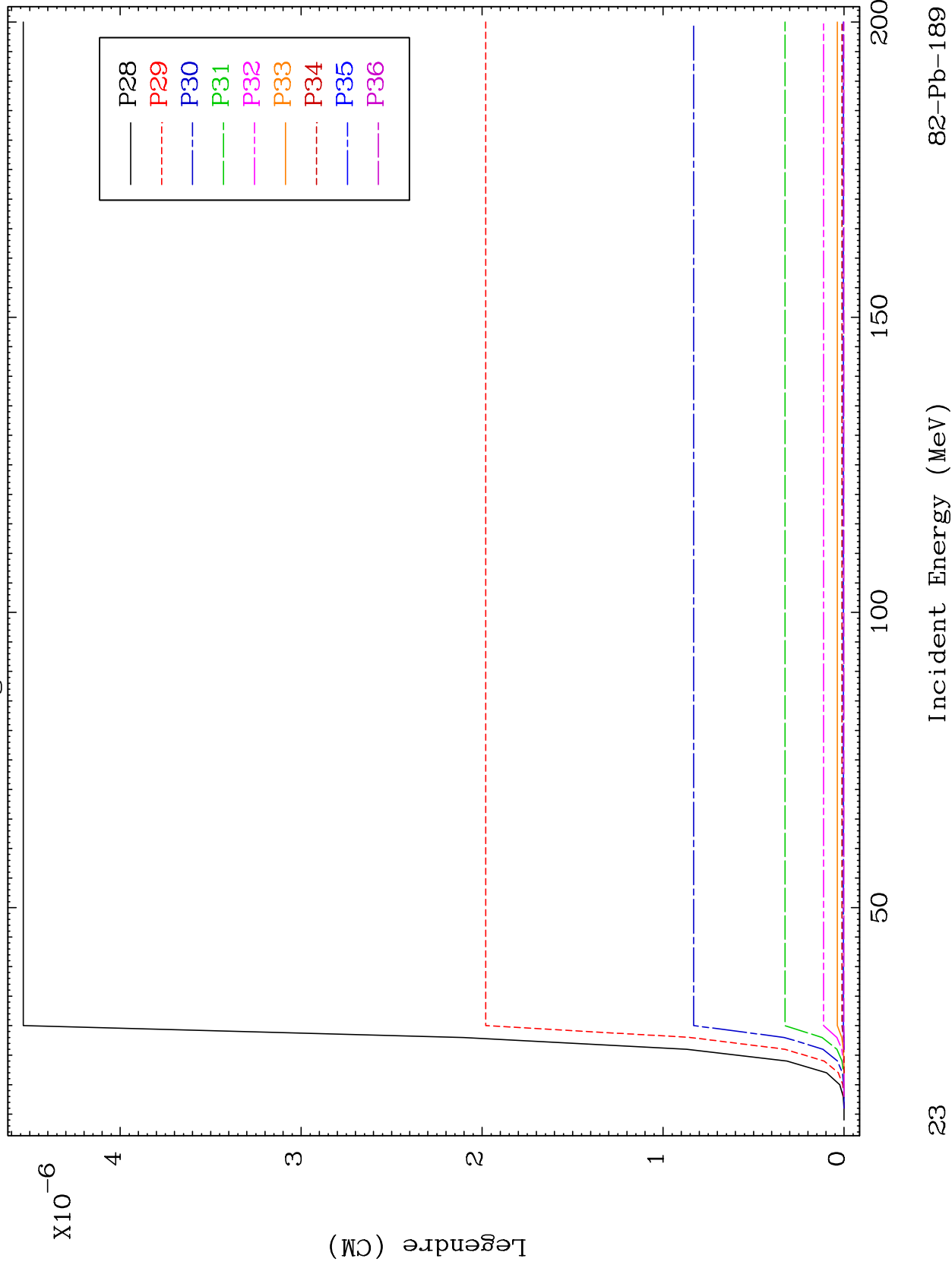
22

82-Pb-189

MAT 8180

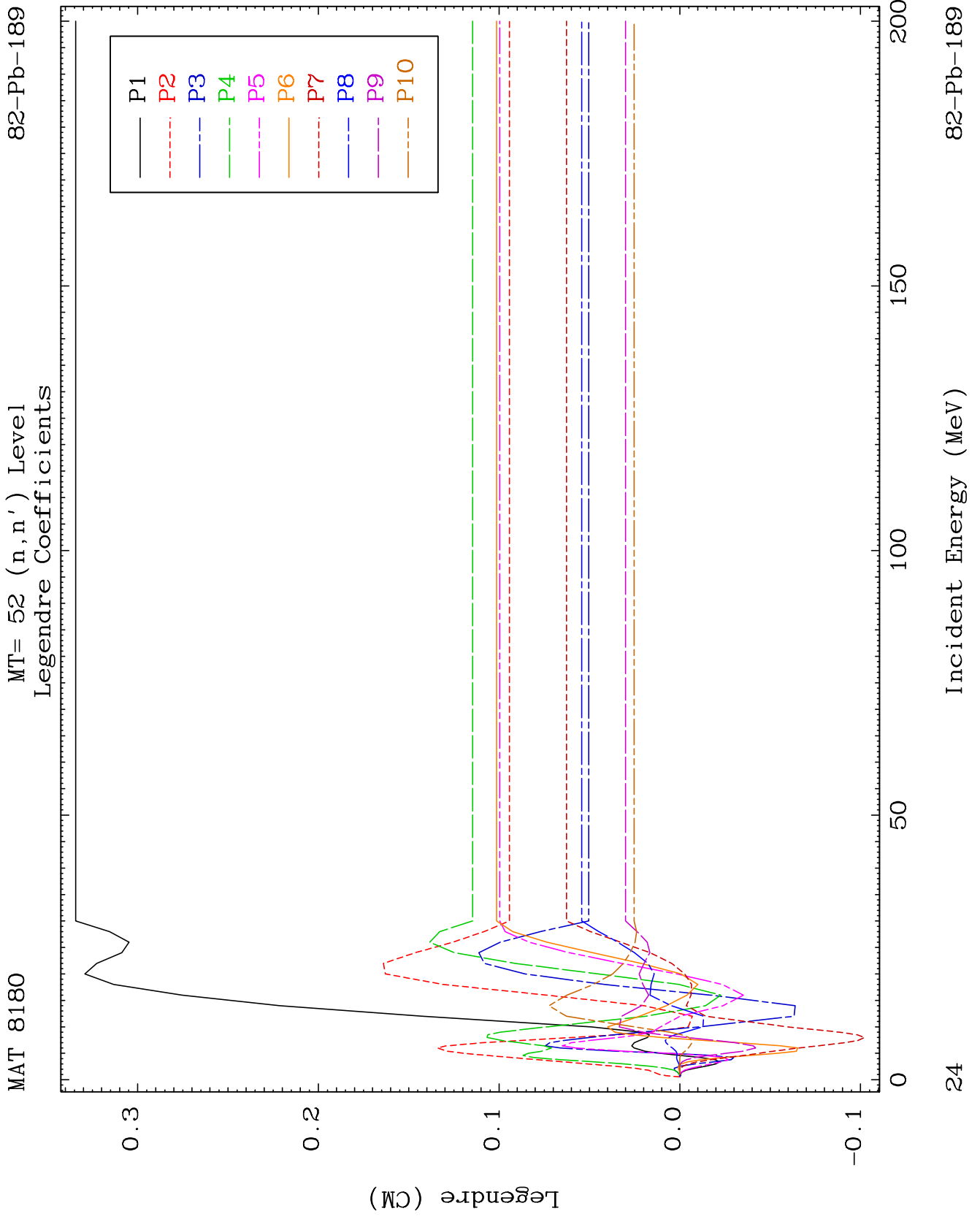
MT= 51 (n,n') Level
Legendre Coefficients

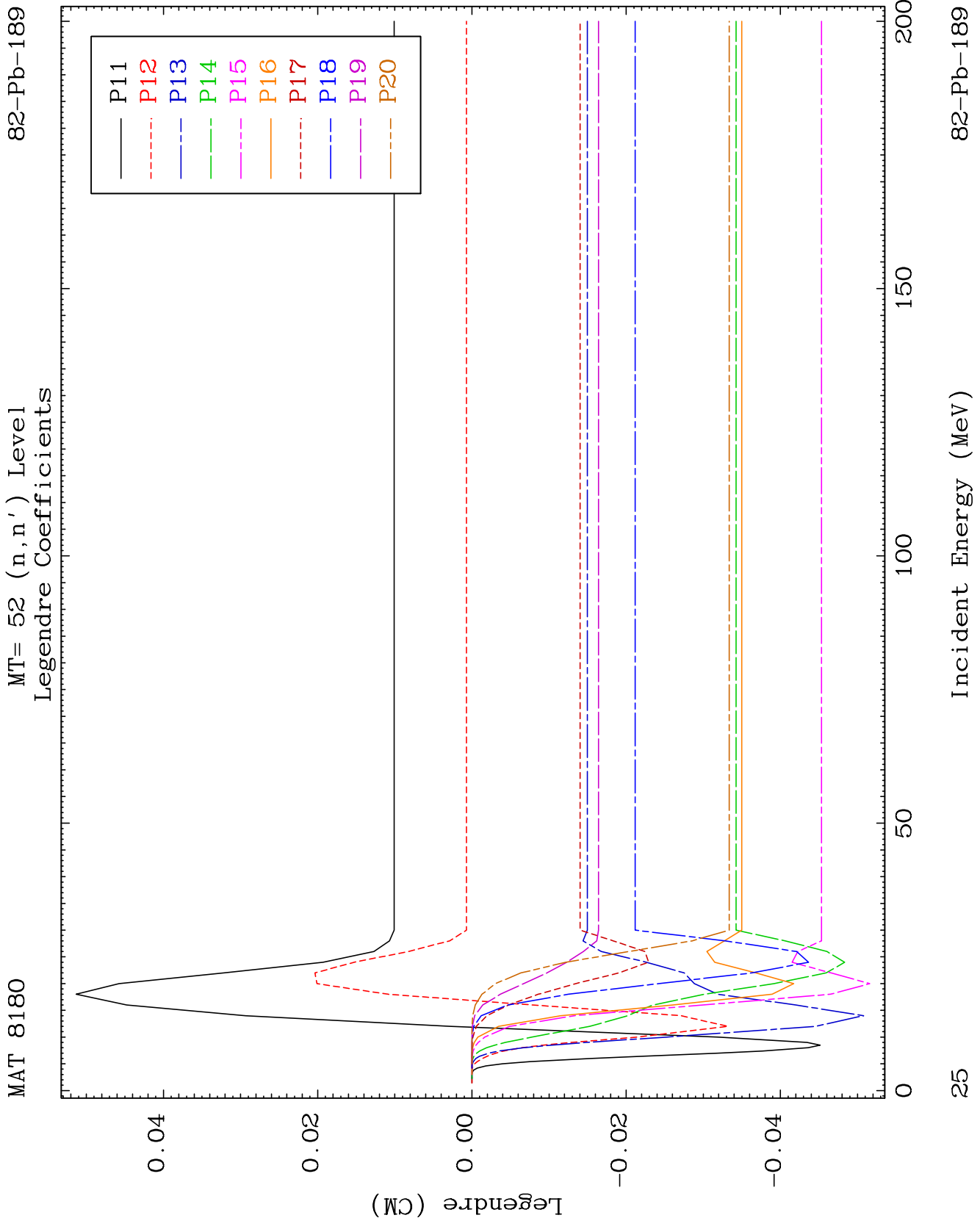
82-Pb-189



23

82-Pb-189

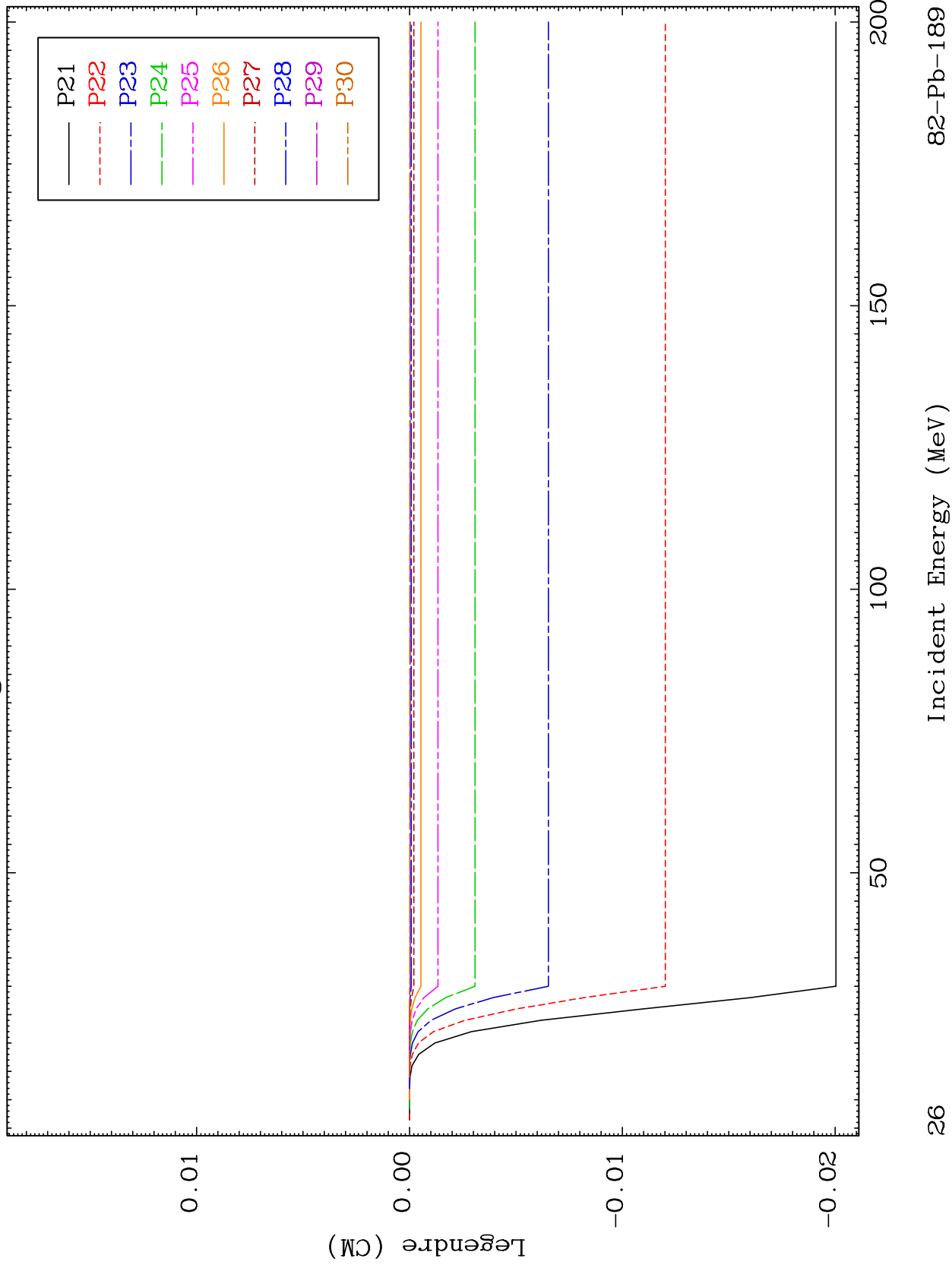




MAT 8180

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

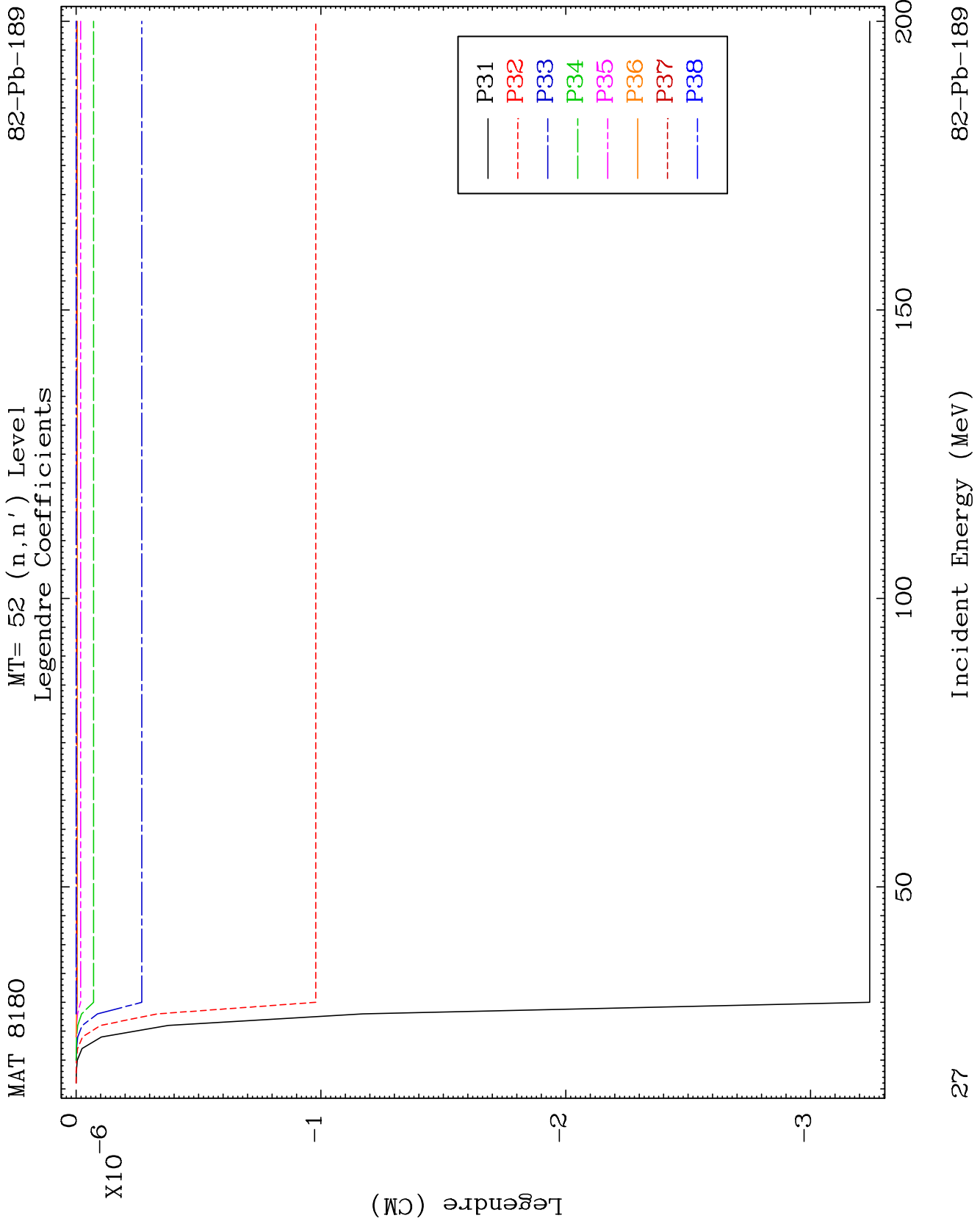
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26

Incident Energy (MeV)

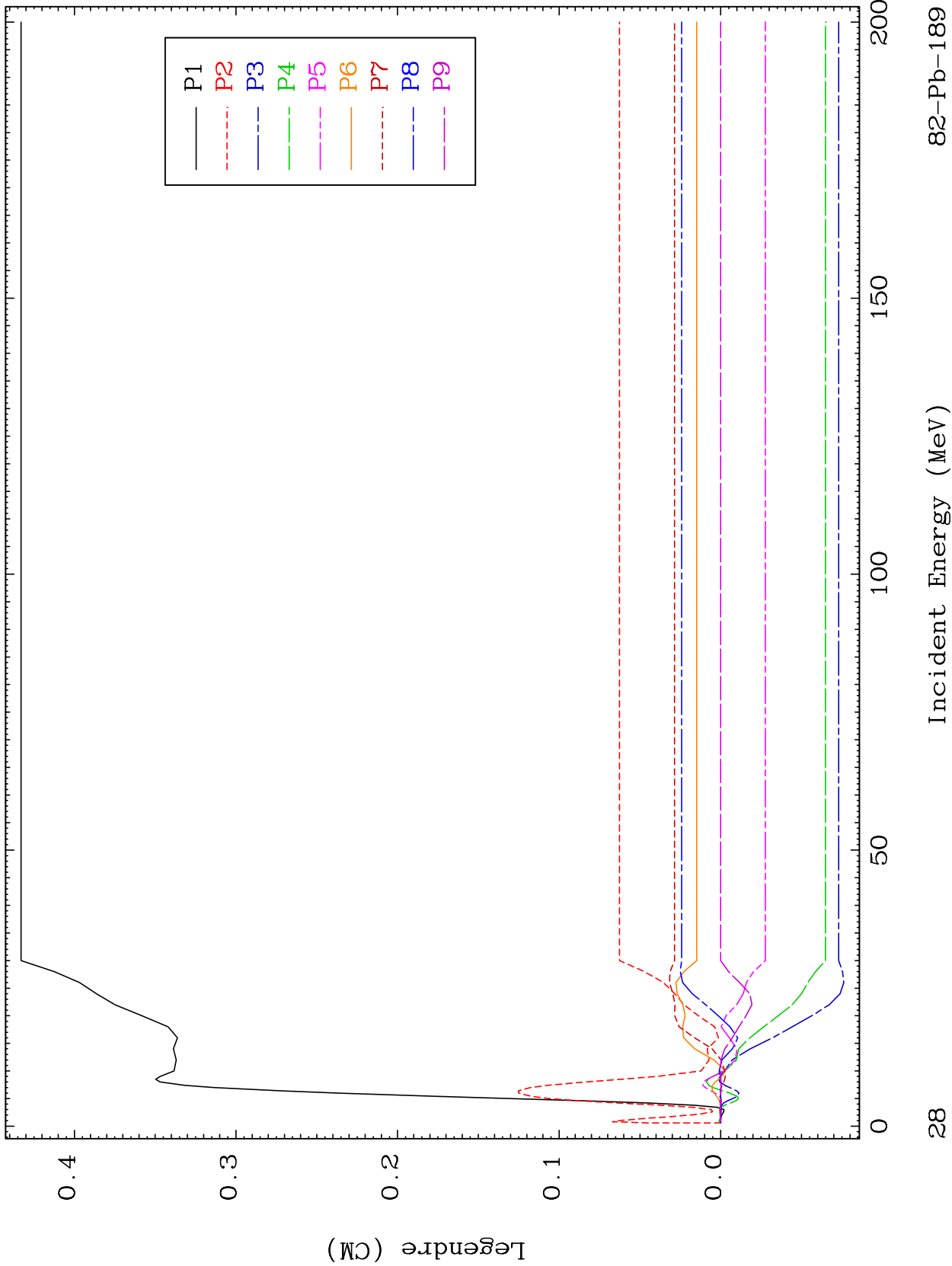
82-Pb-189



MAT 8180

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

82-Pb-189



82-Pb-189

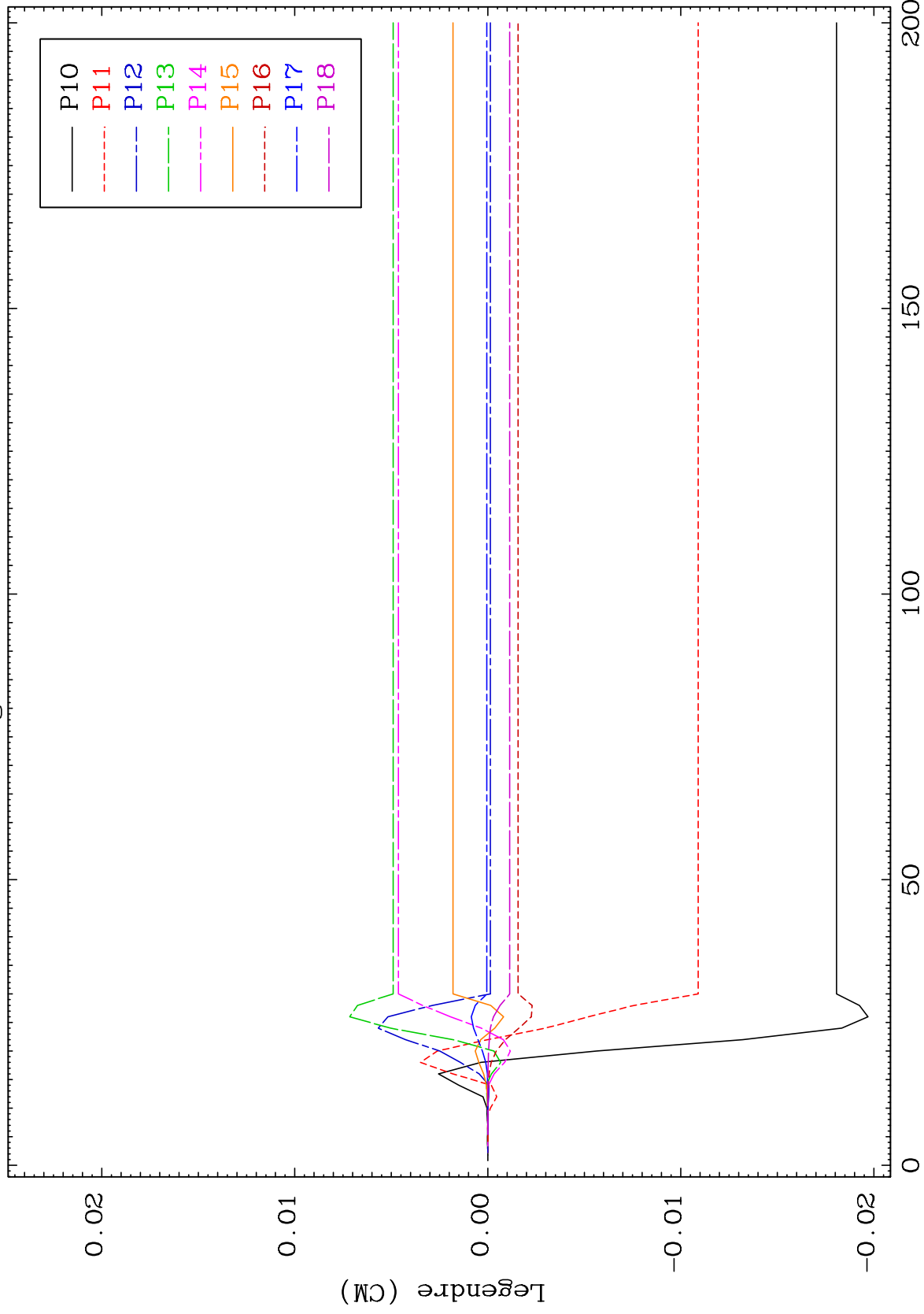
Incident Energy (MeV)

28

MAT 8180

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

82-Pb-189



29

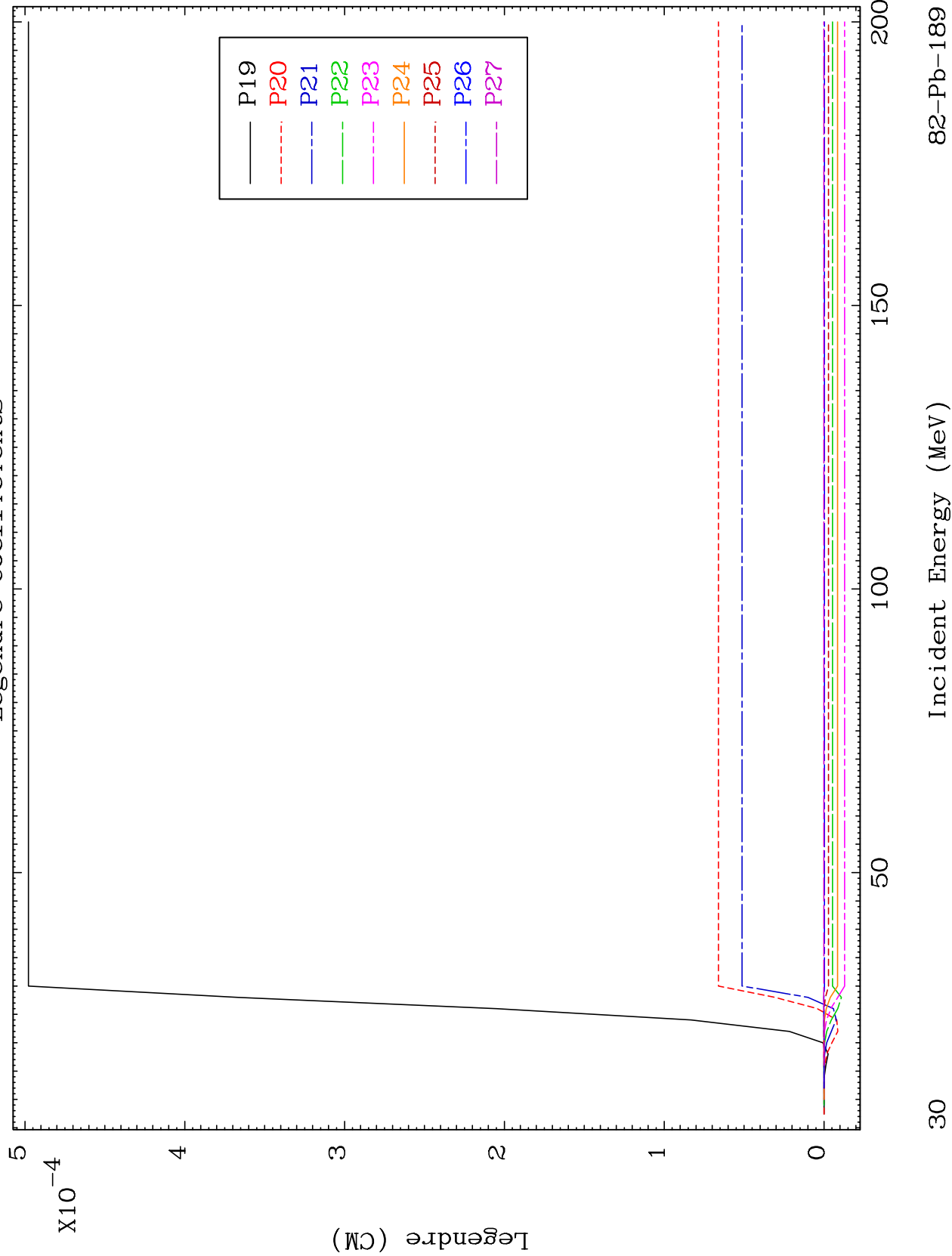
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

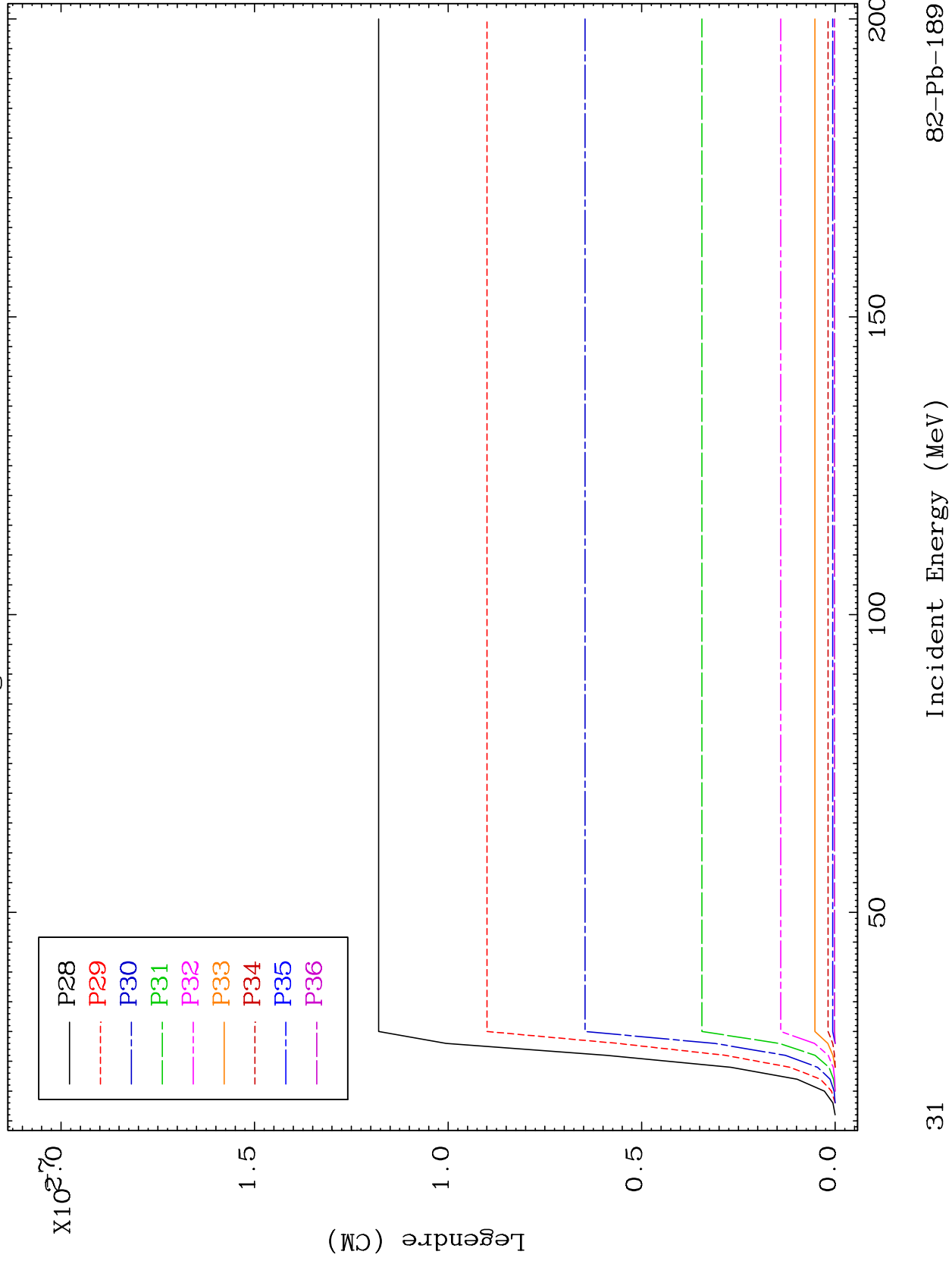
82-Pb-189



MAT 8180

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

82-Pb-189



31

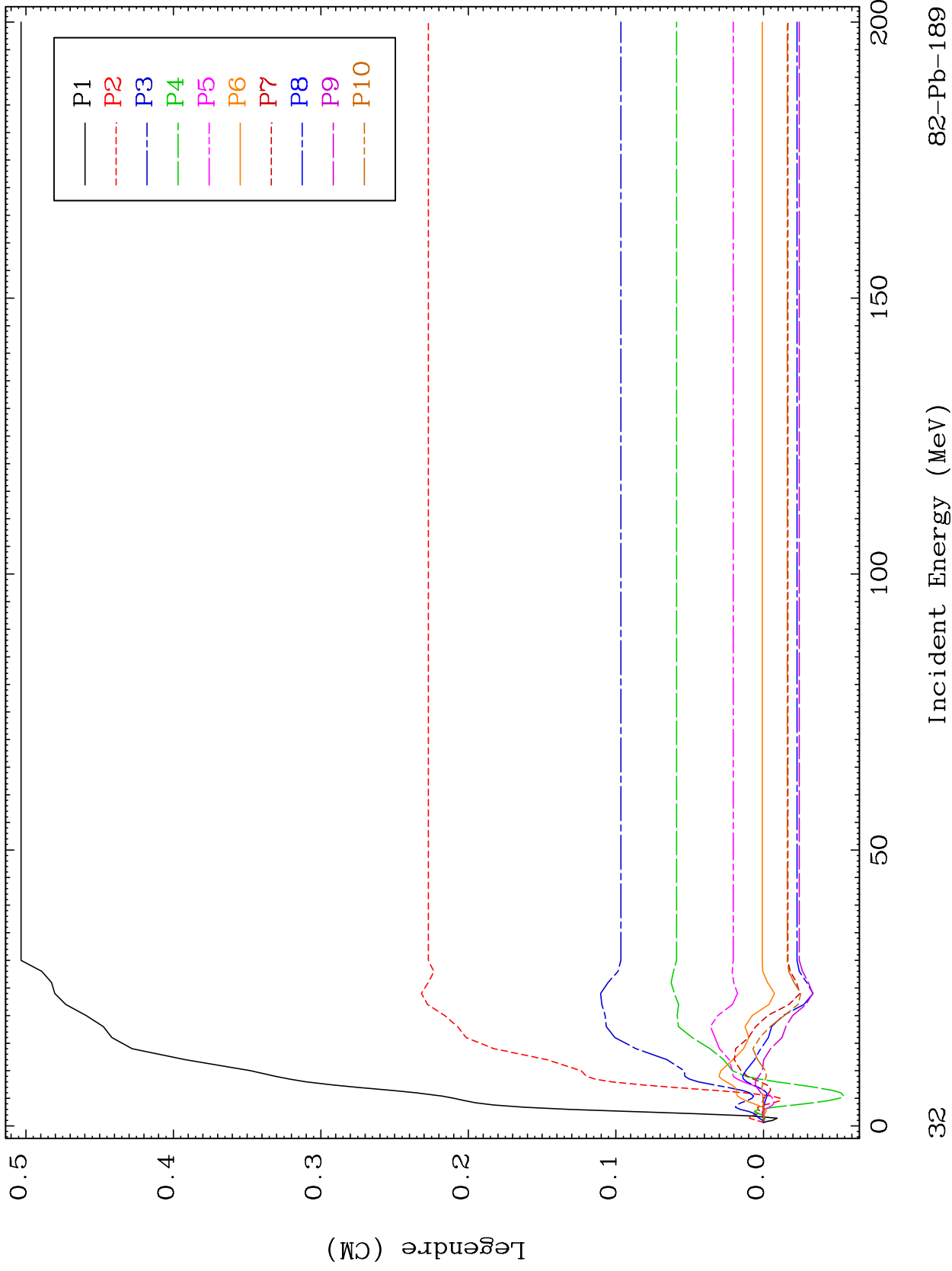
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



82-Pb-189

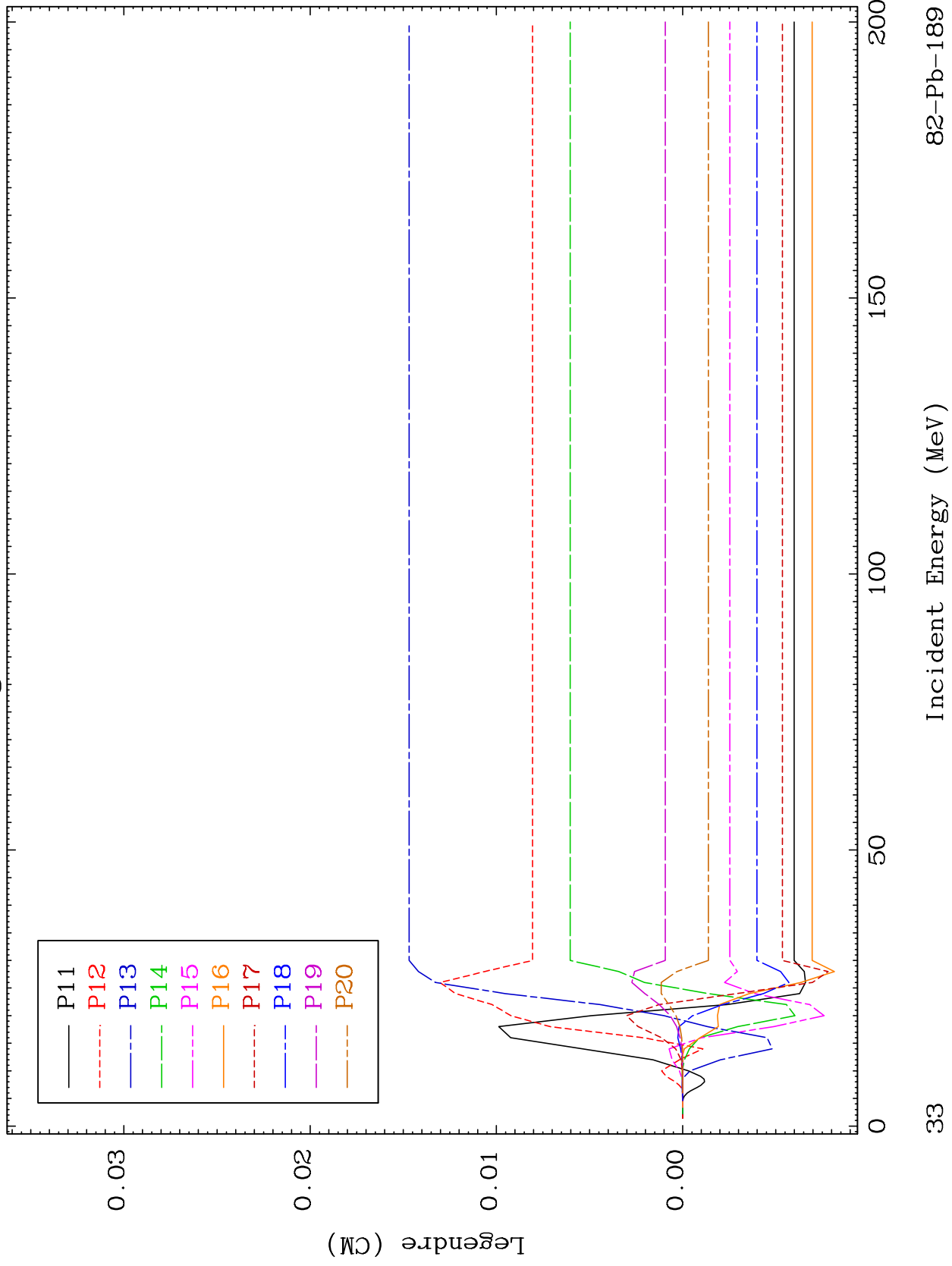
Incident Energy (MeV)

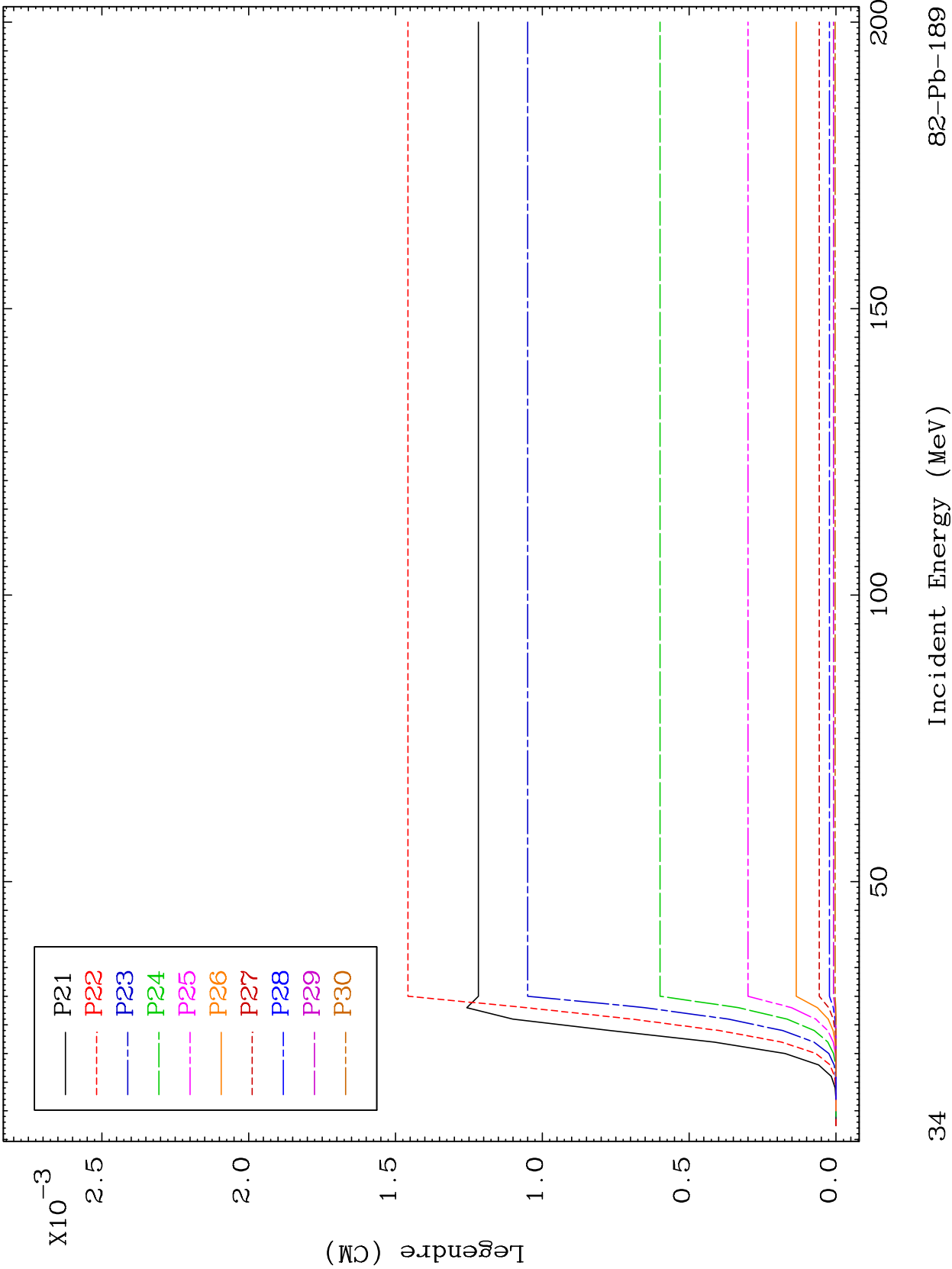
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MAT 8180

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

82-Pb-189

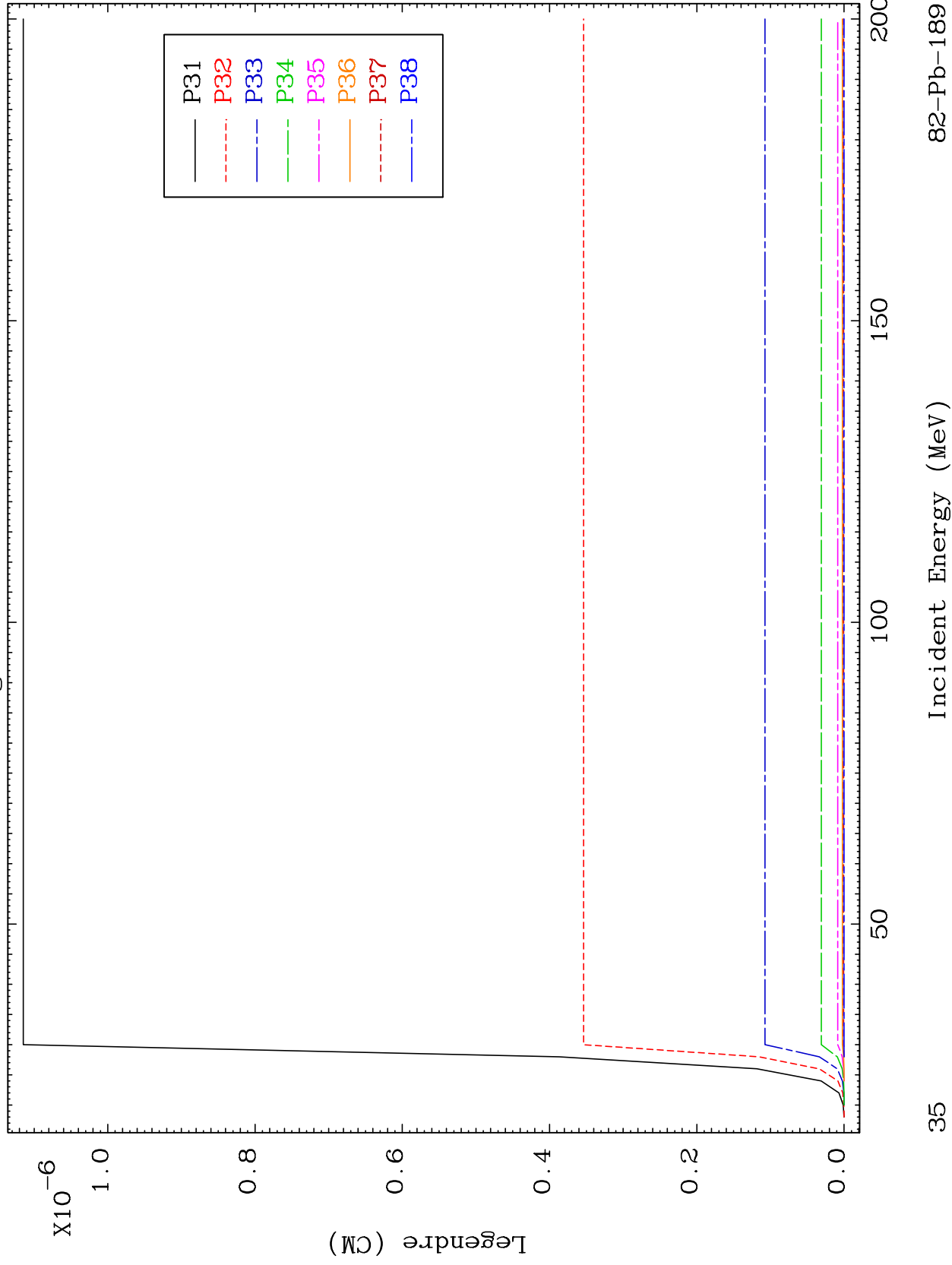


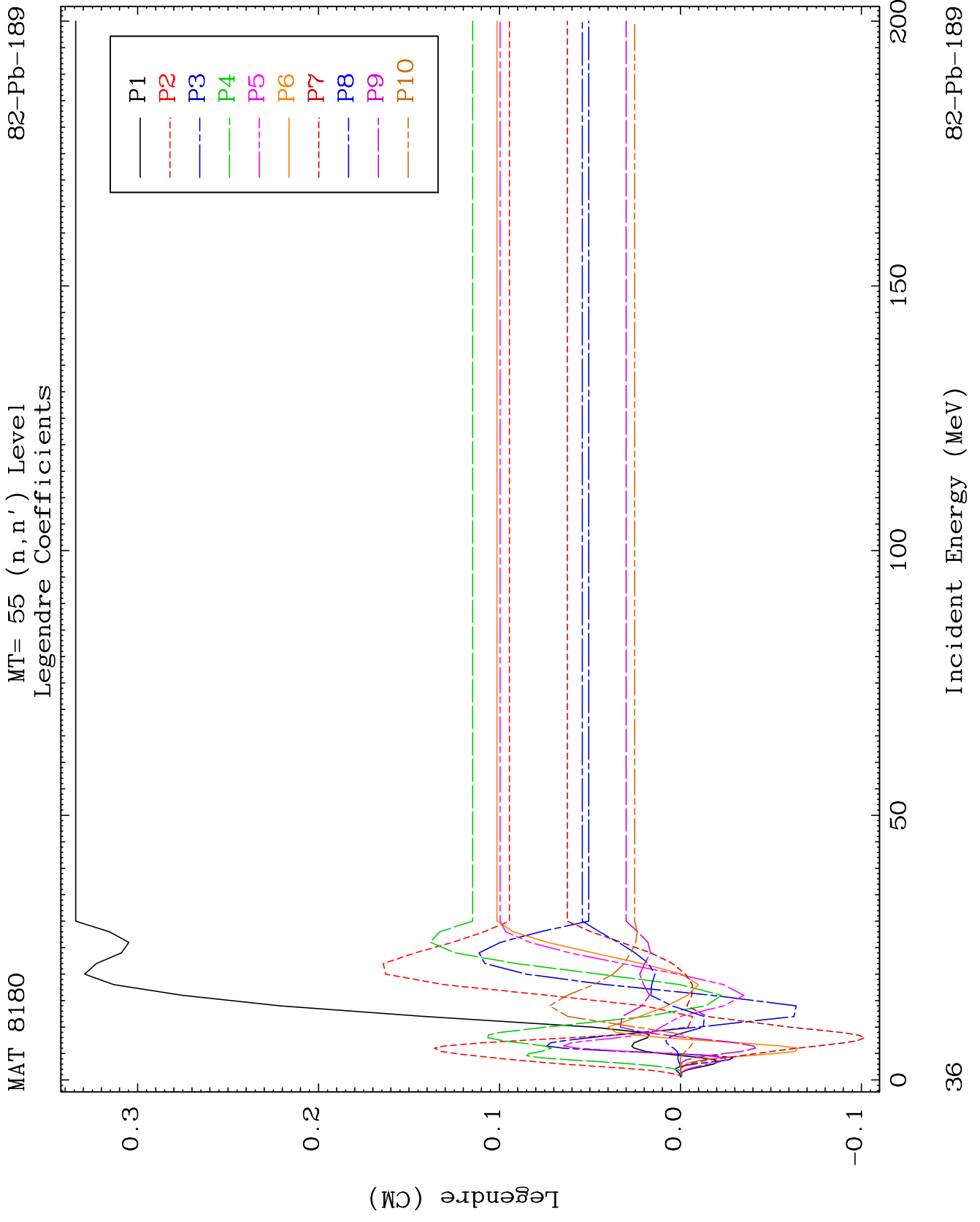


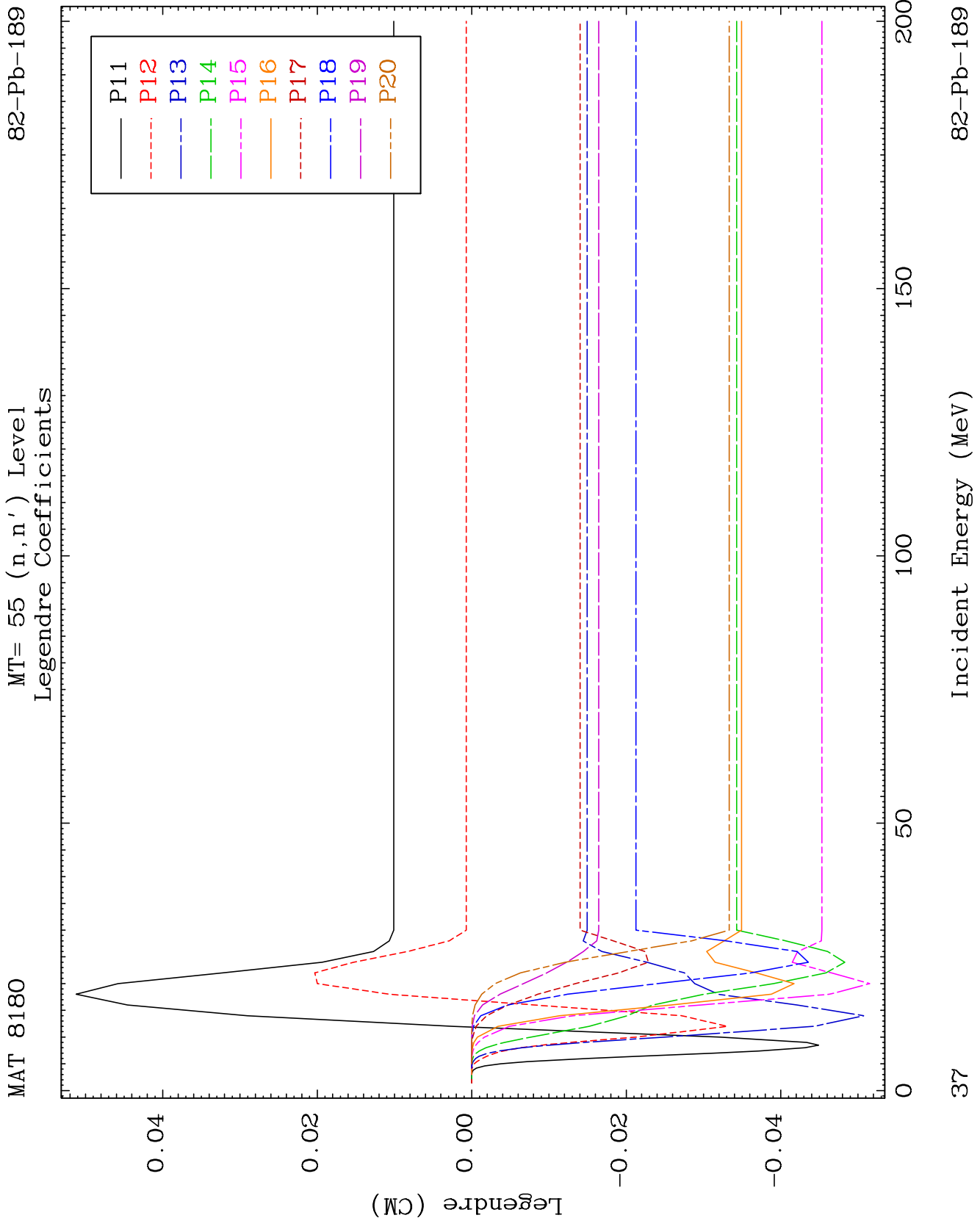
MAT 8180

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

82-Pb-189



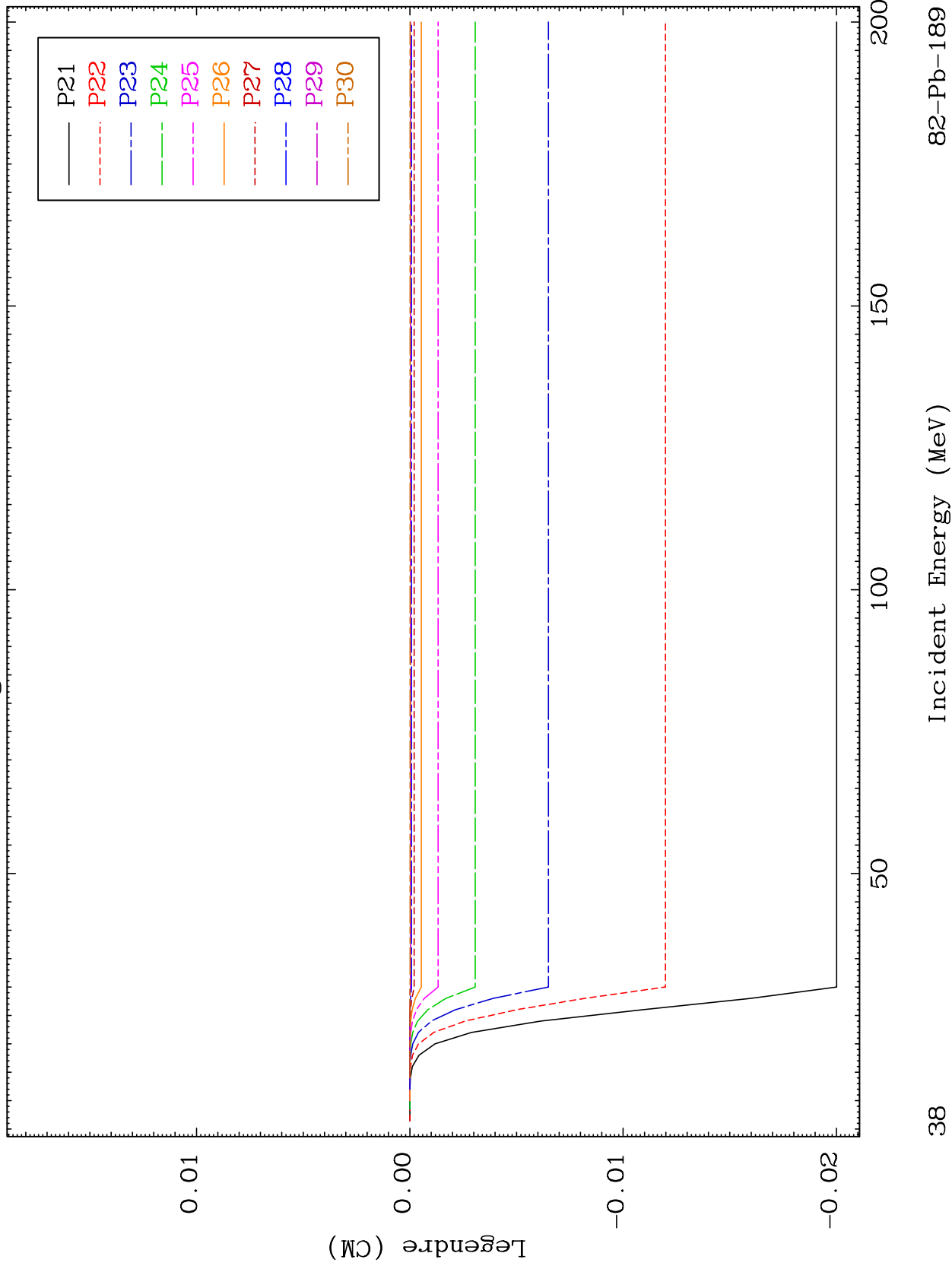




MAT 8180

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

82-Pb-189



38

Incident Energy (MeV)

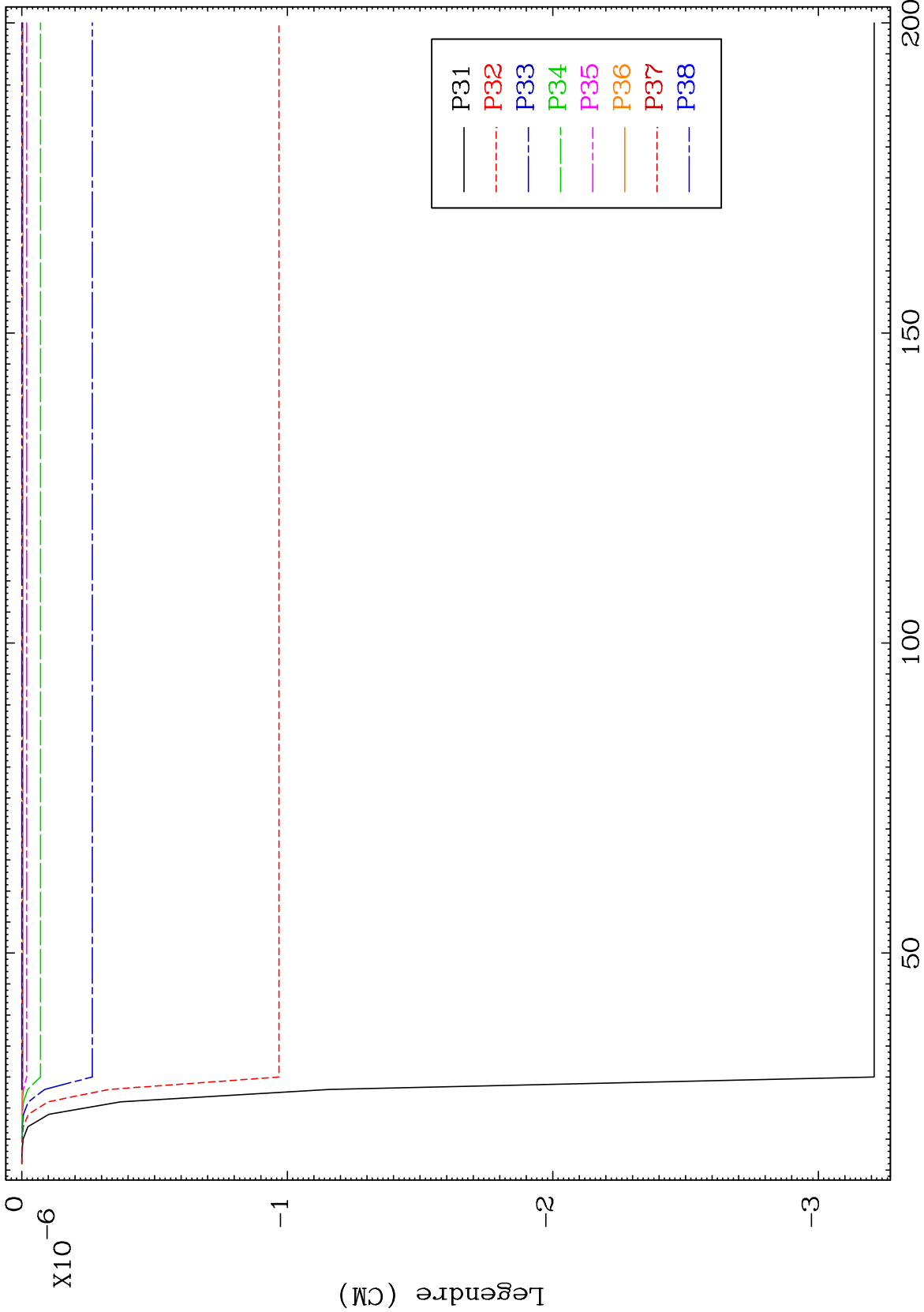
82-Pb-189

MAT 8180

MT= 55 (n,n') Level

82-Pb-189

Legendre Coefficients



39

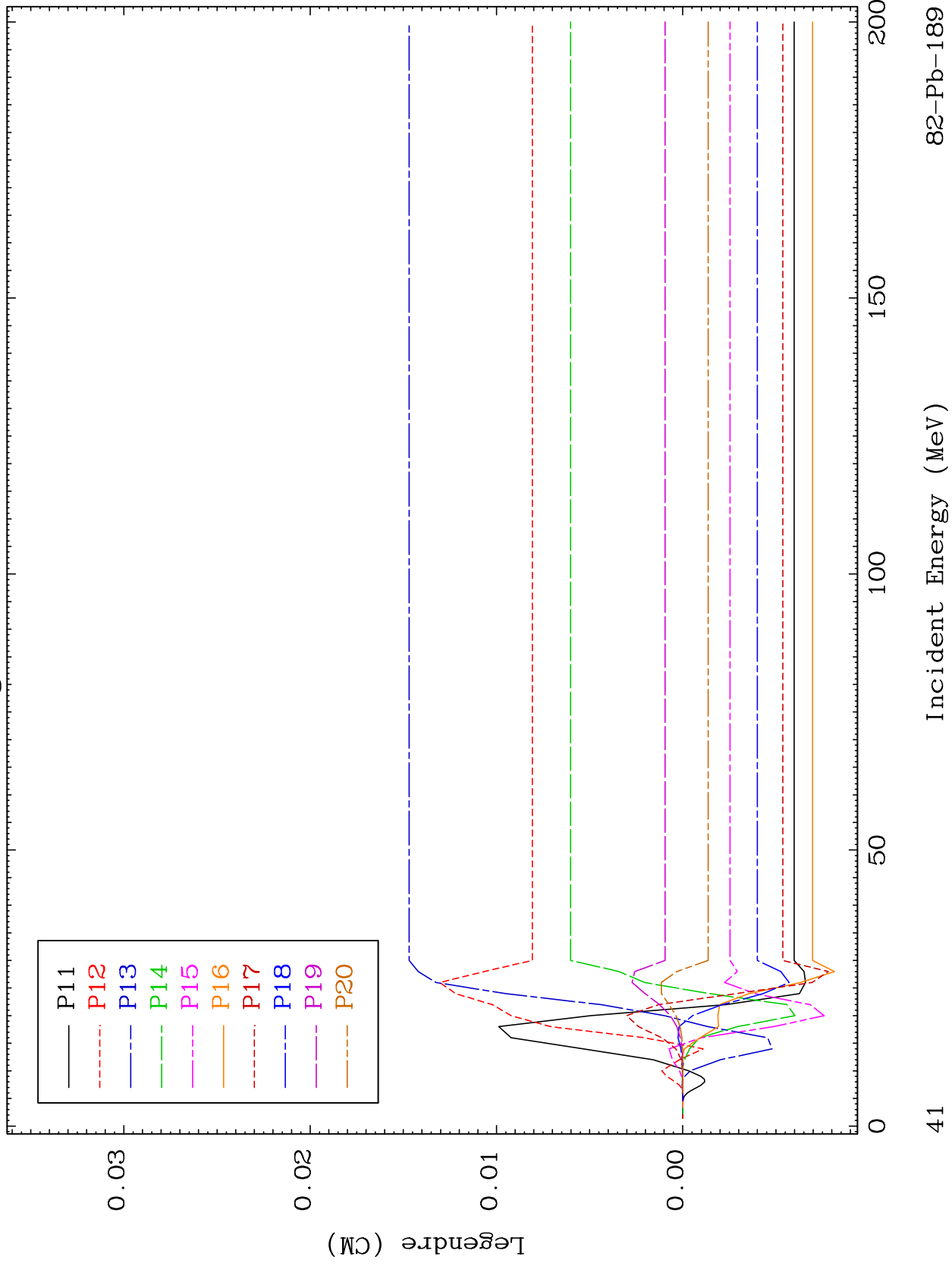
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

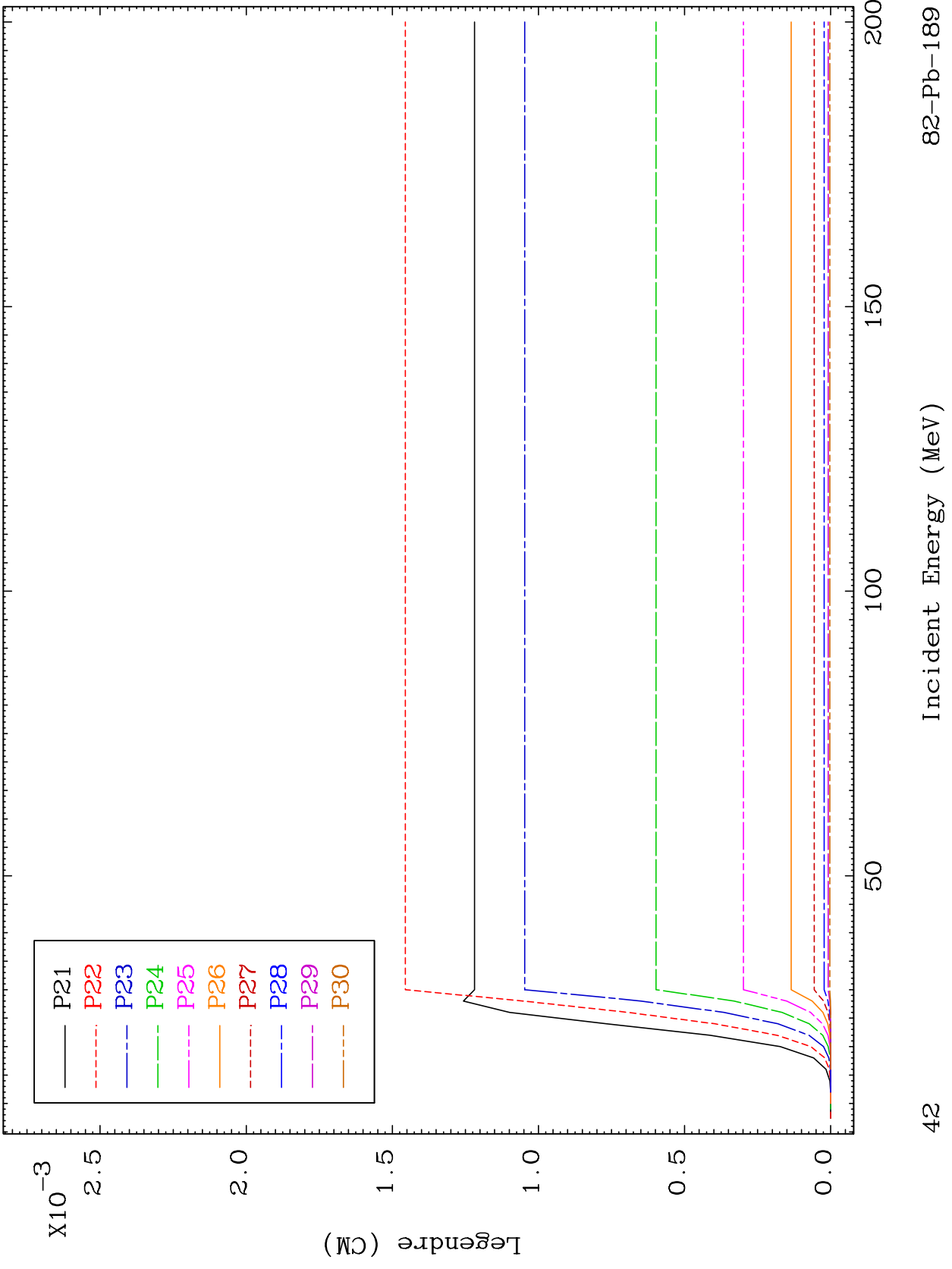
82-Pb-189



MAT 8180

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

82-Pb-189



42

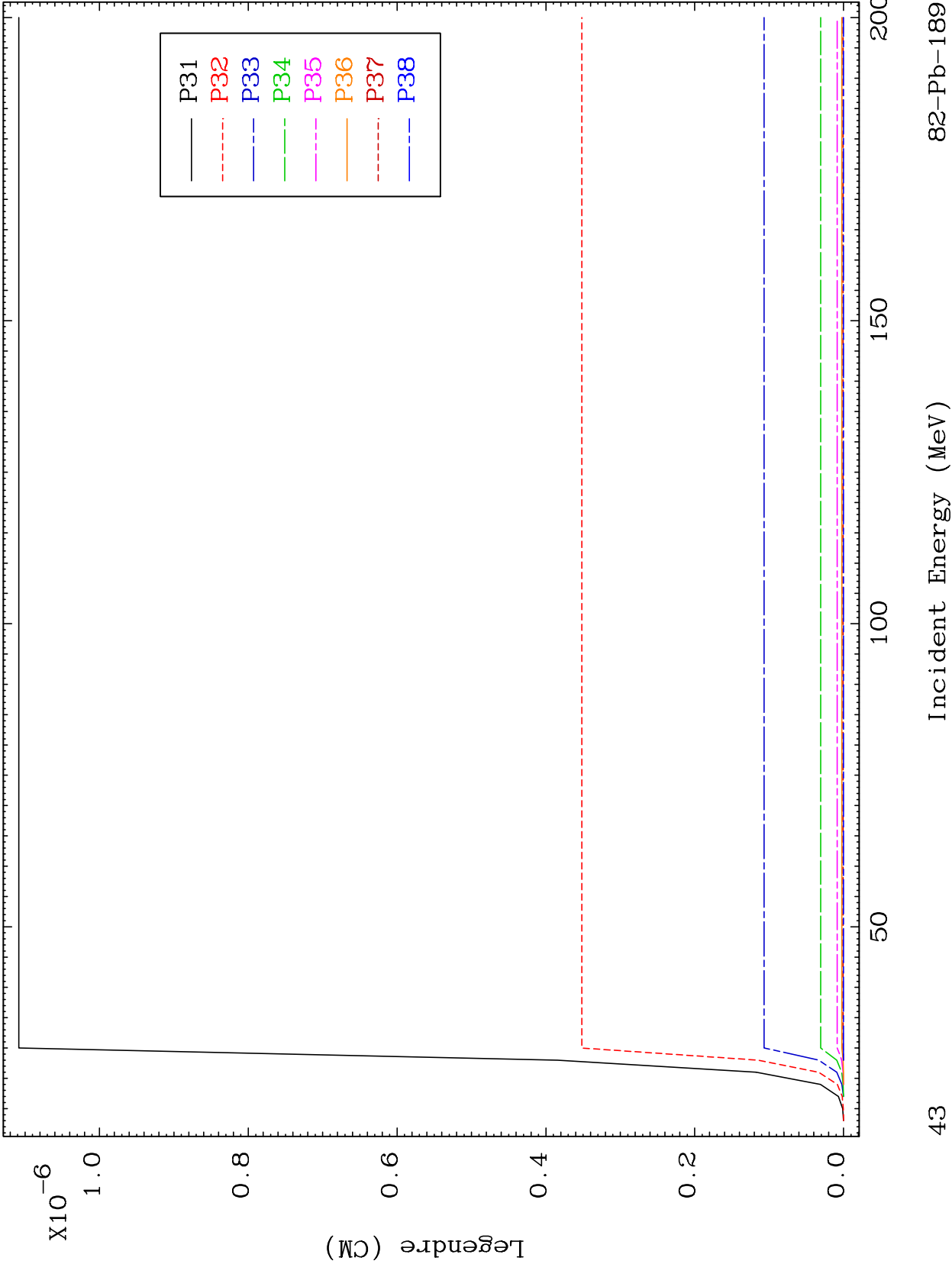
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



43

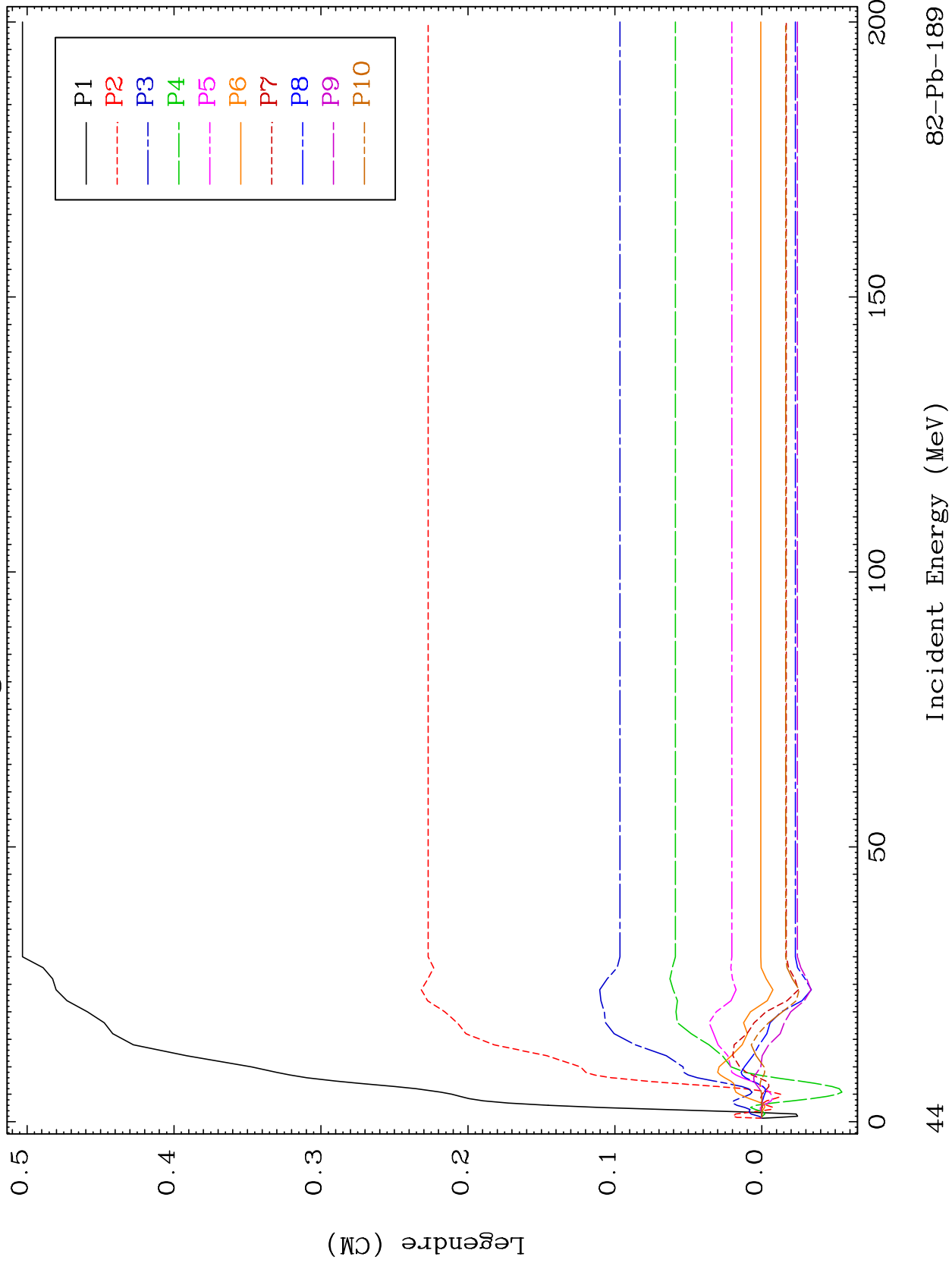
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



82-Pb-189

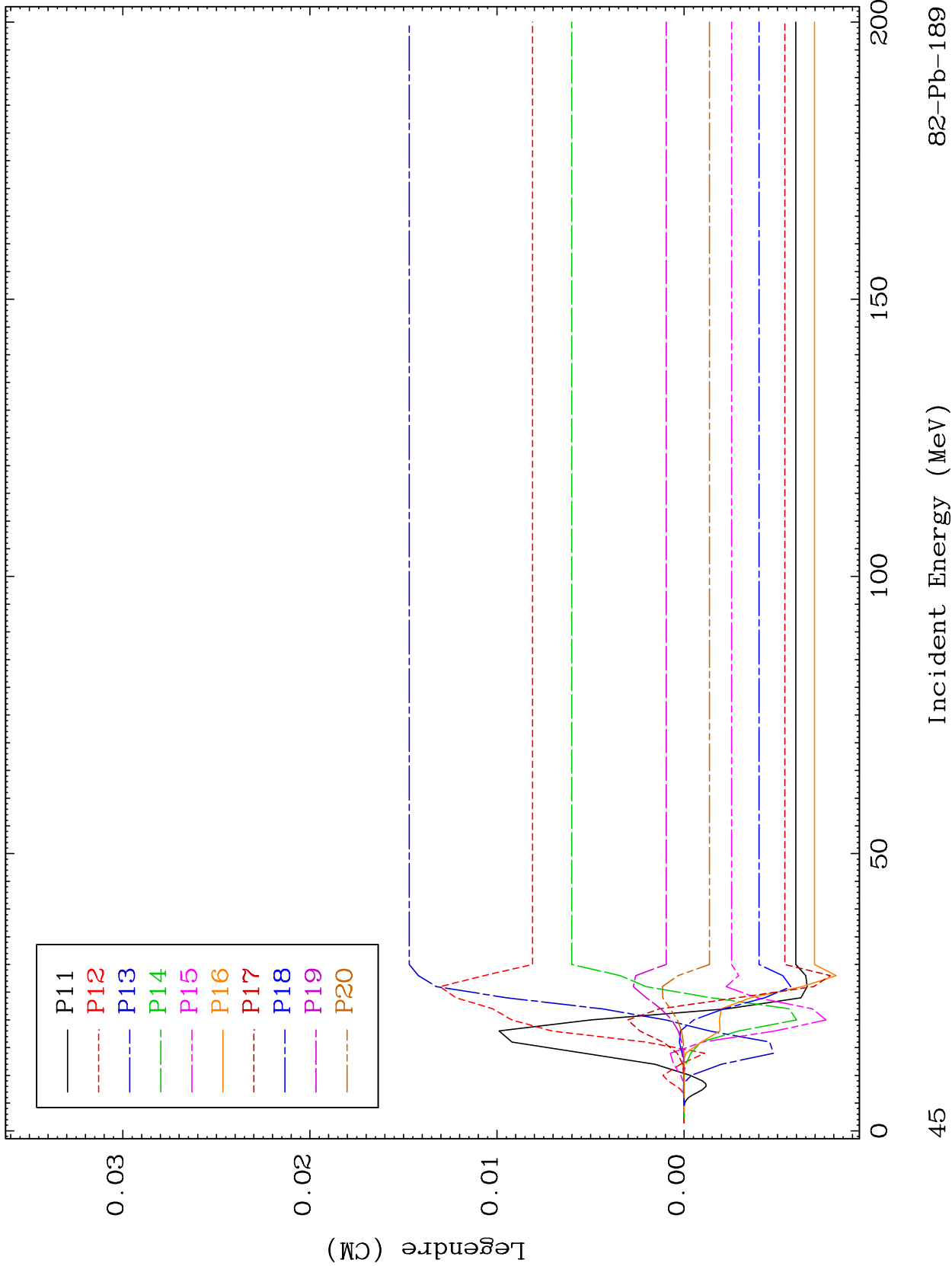
Incident Energy (MeV)

44

MAT 8180

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

82-Pb-189



45

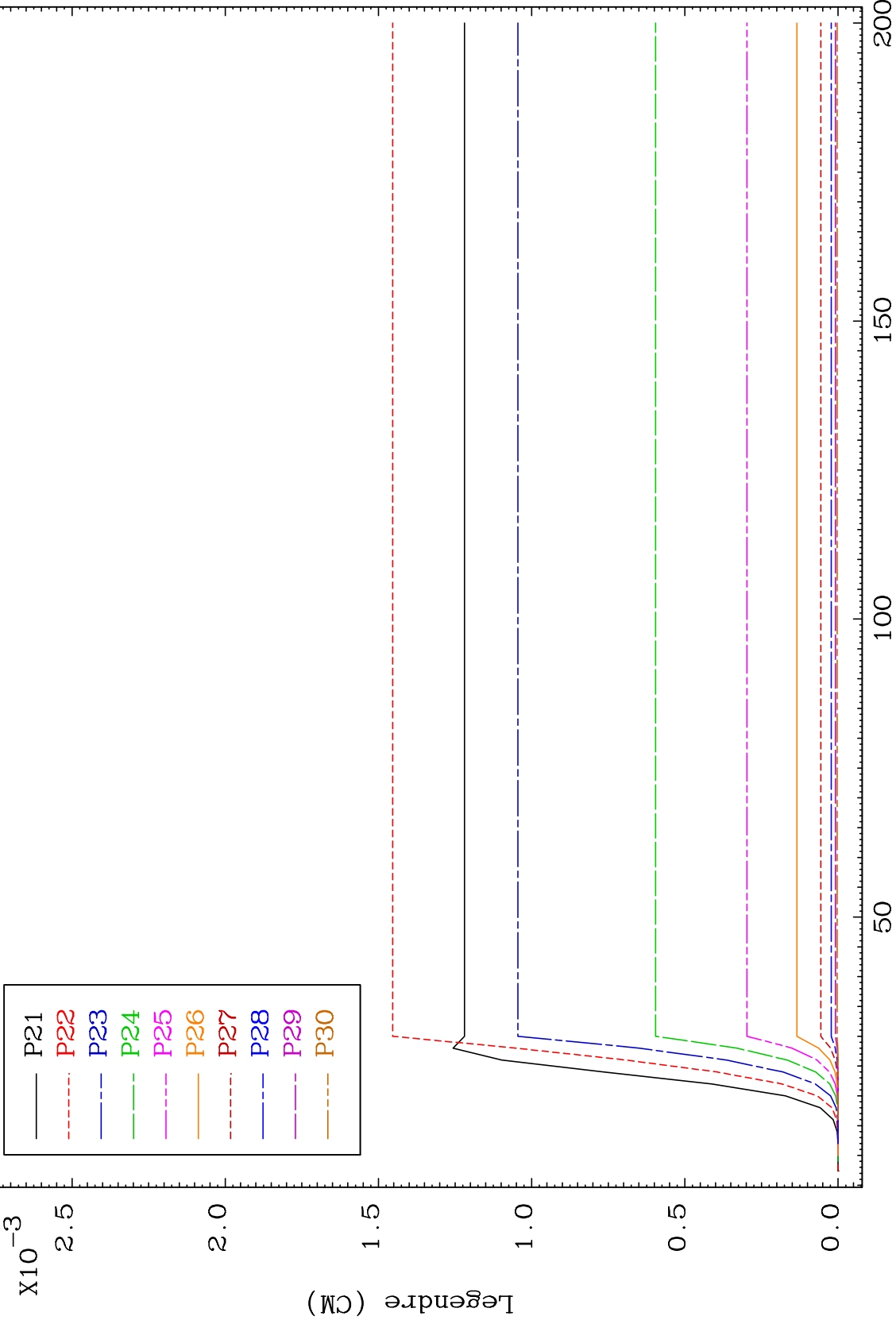
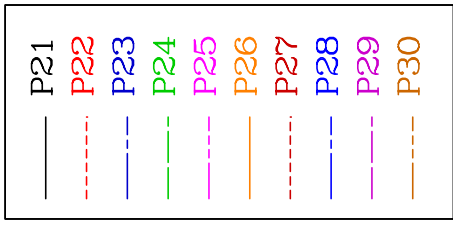
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



46

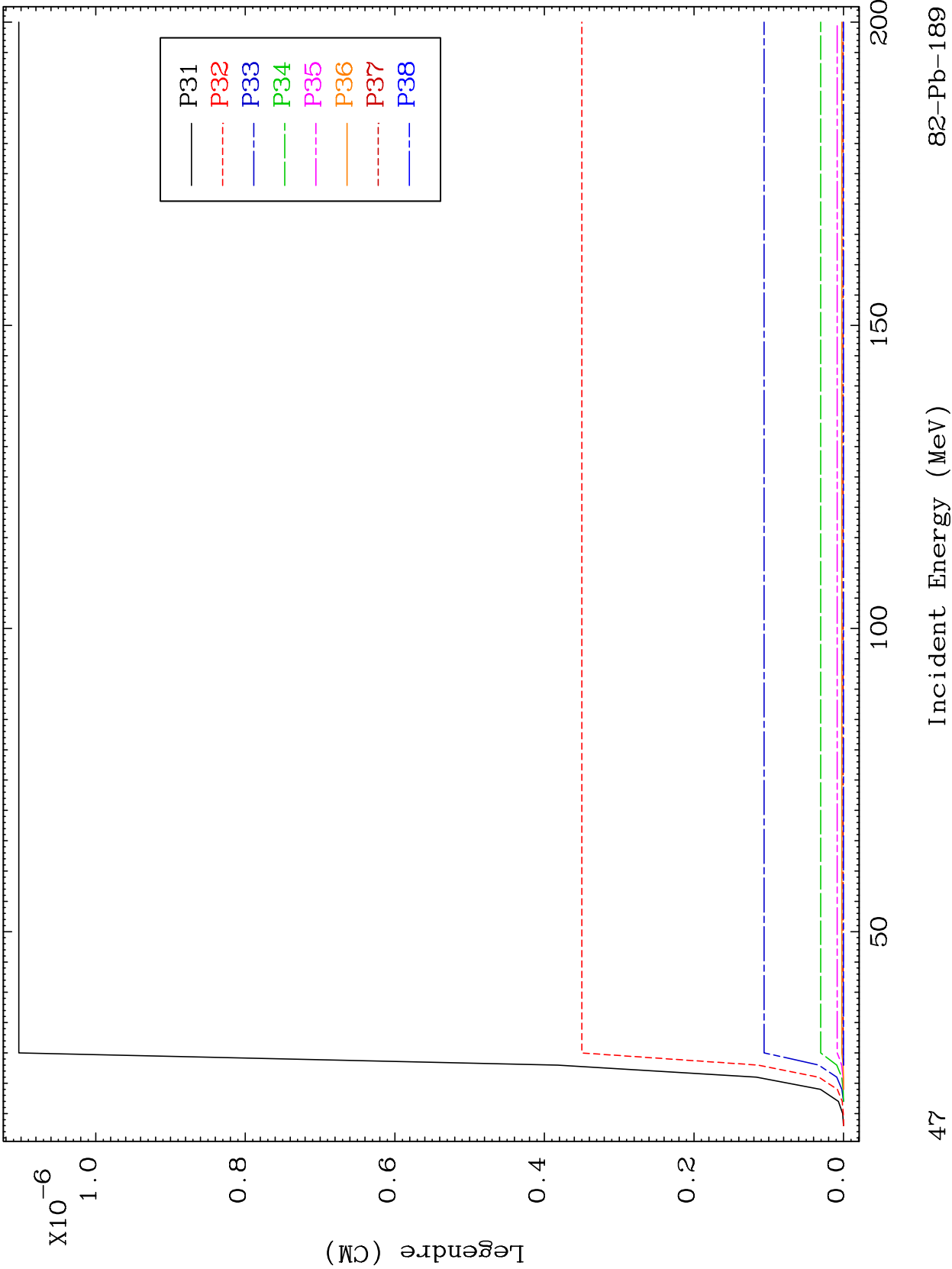
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

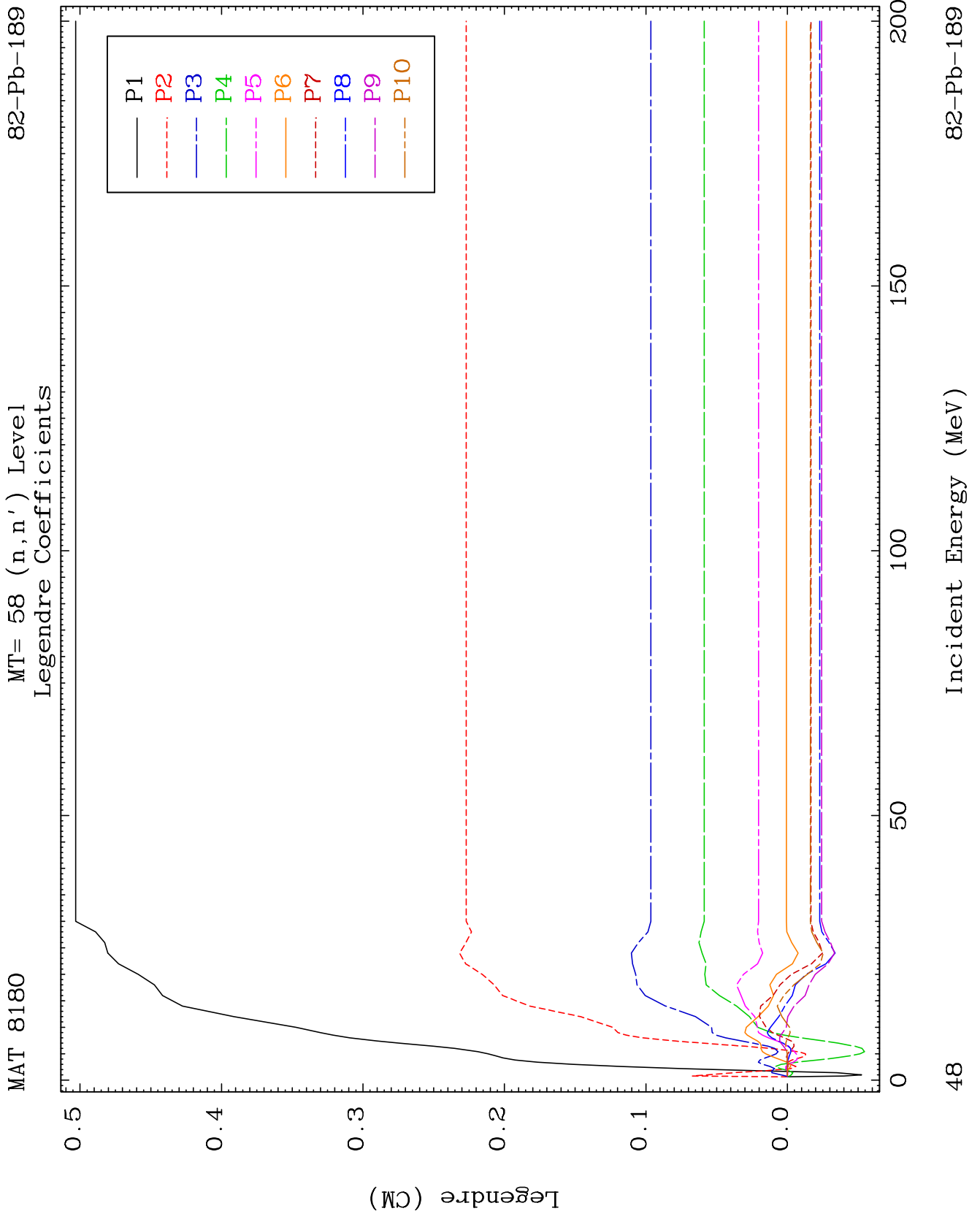
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47

Incident Energy (MeV)

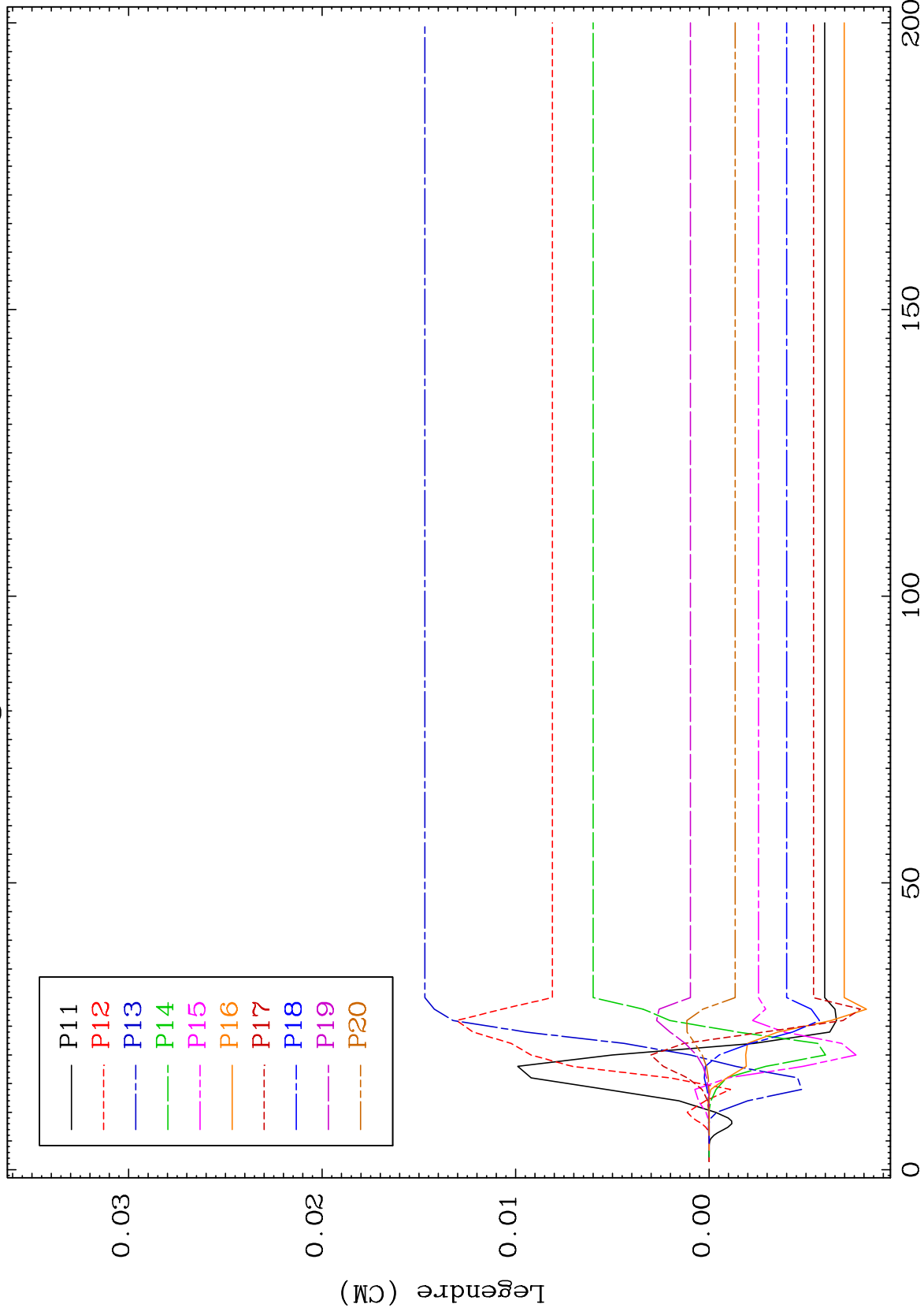
82-Pb-189



MAT 8180

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

82-Pb-189



49

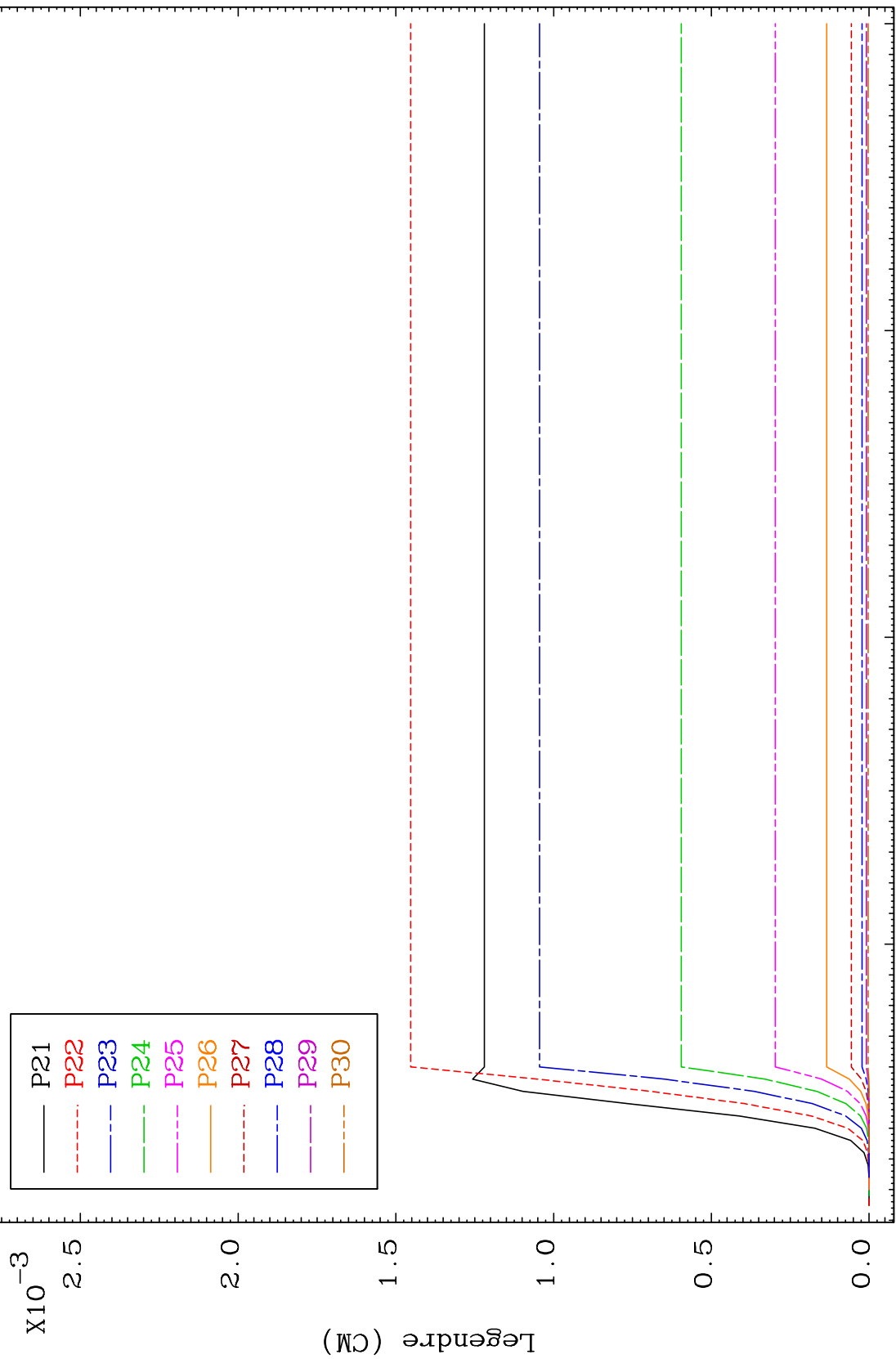
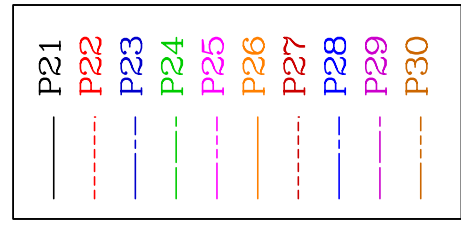
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



50

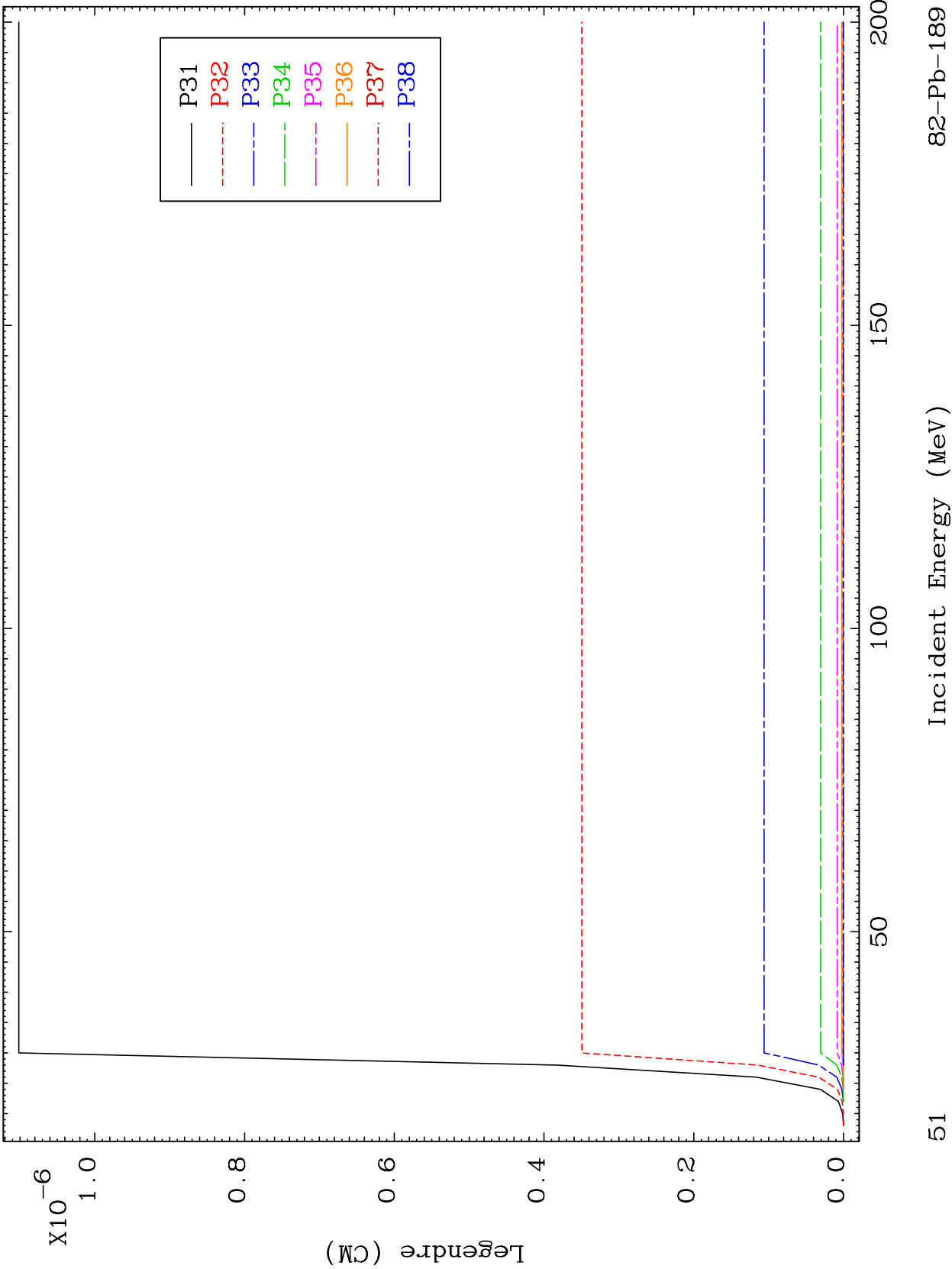
Incident Energy (MeV)

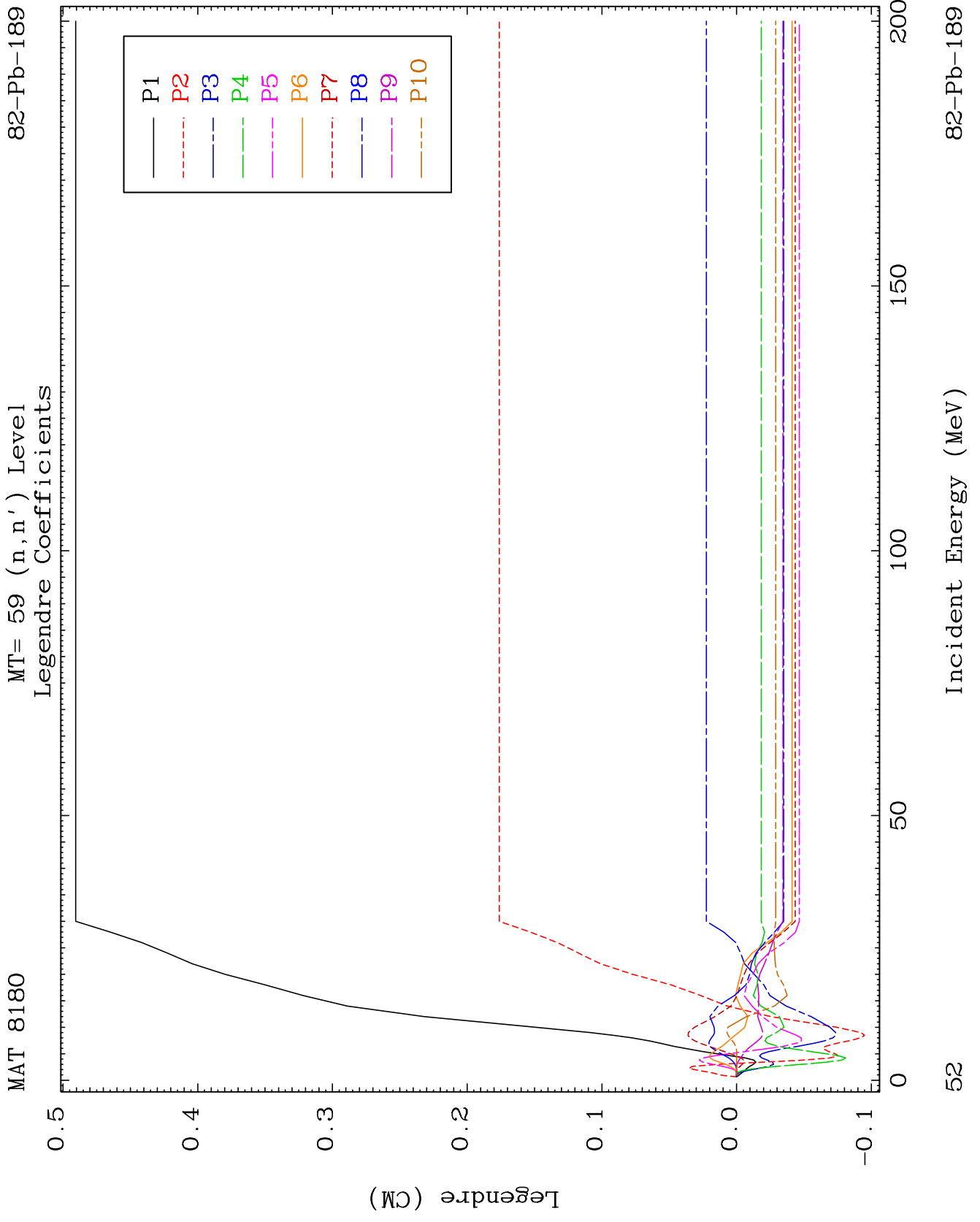
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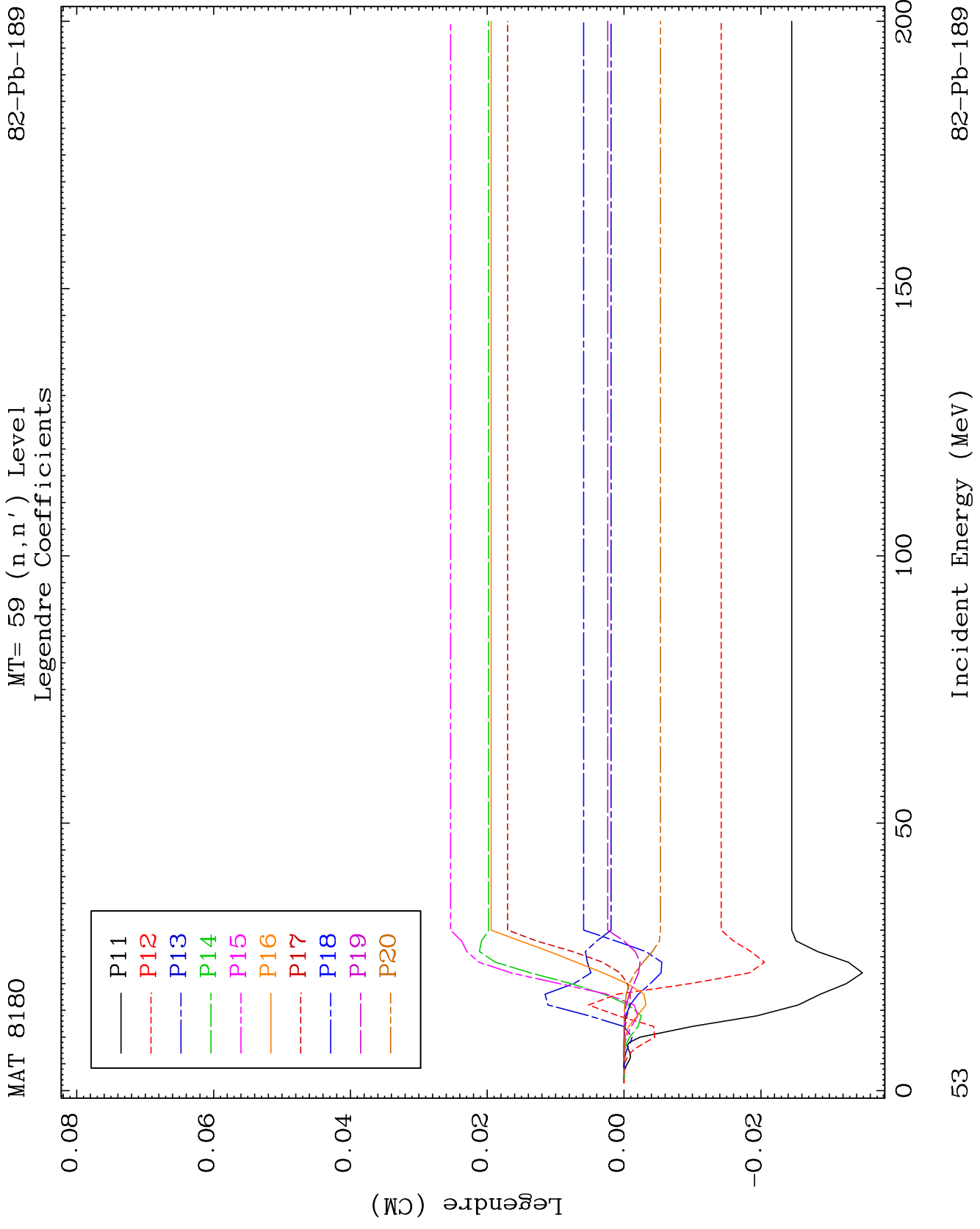
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82-Pb-189



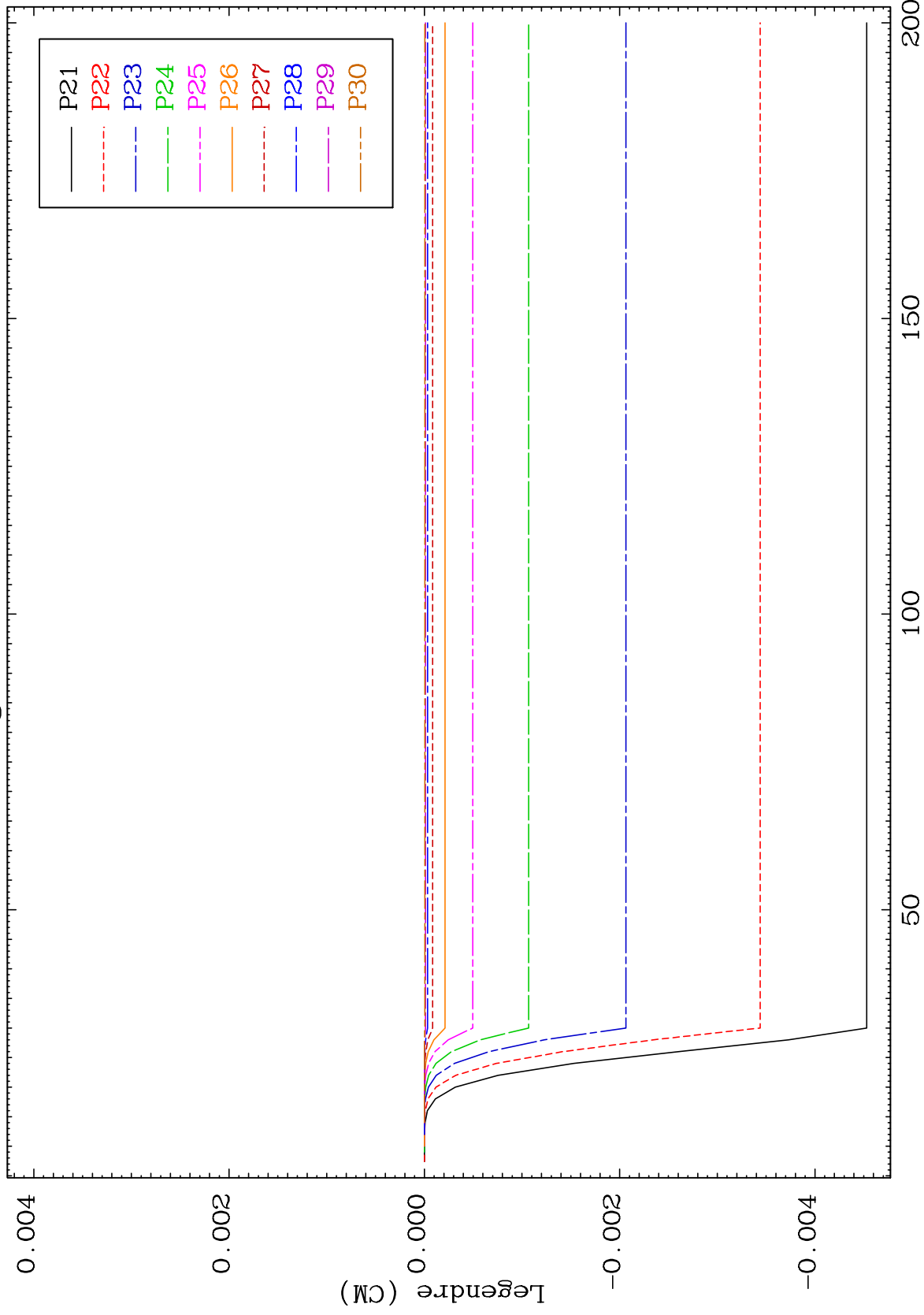




MAT 8180

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

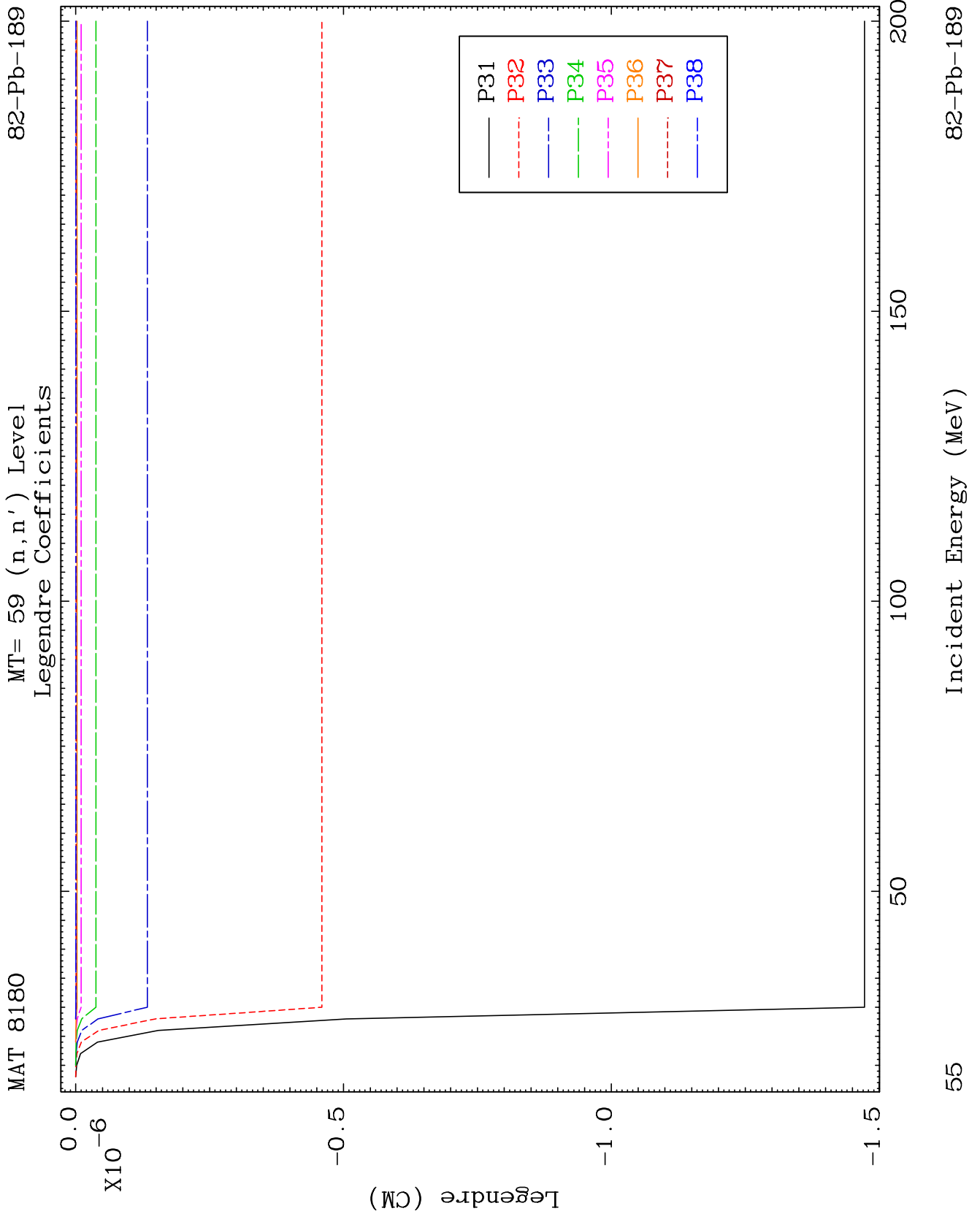
82-Pb-189



54

Incident Energy (MeV)

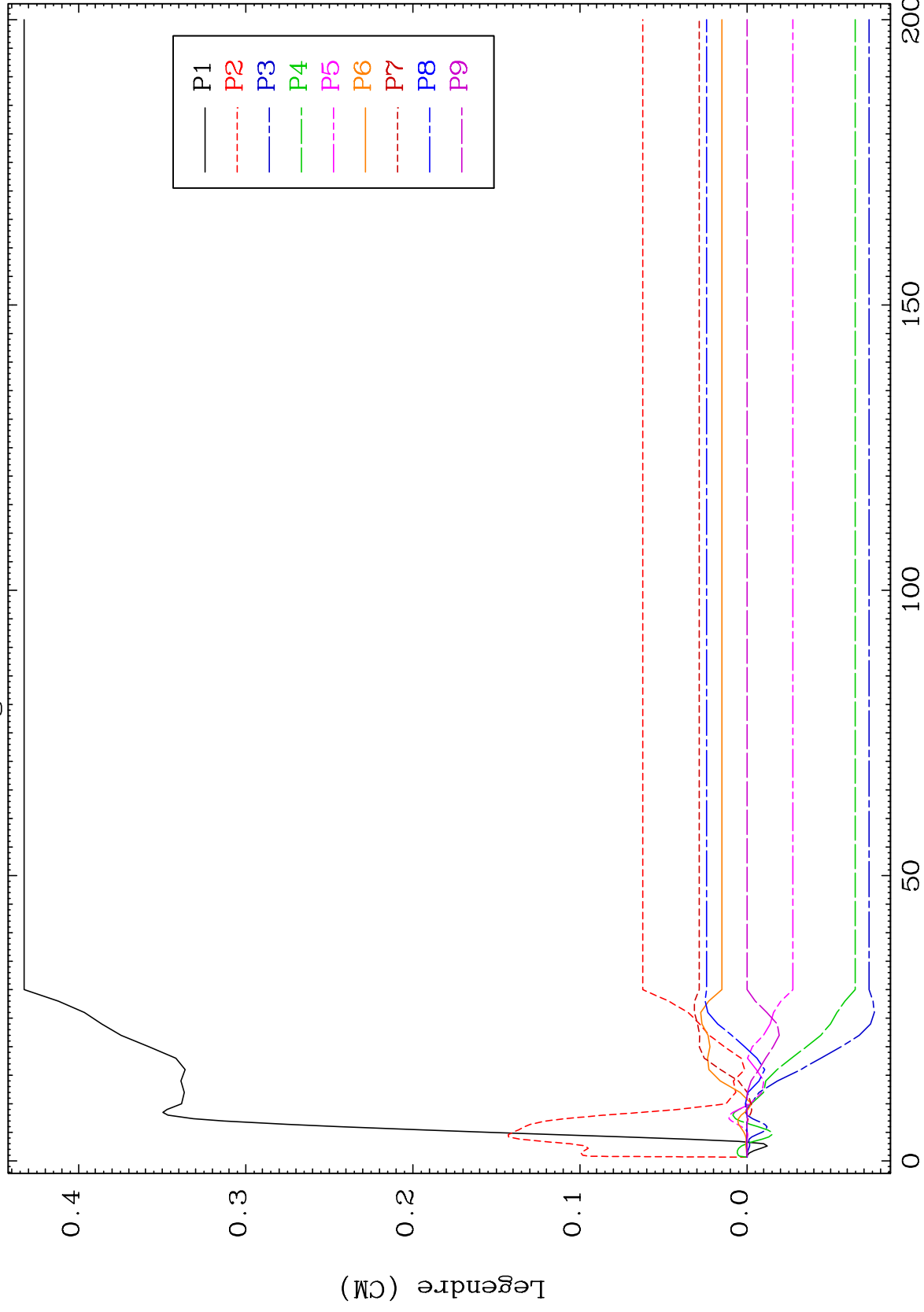
82-Pb-189



MAT 8180

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

82-Pb-189



56

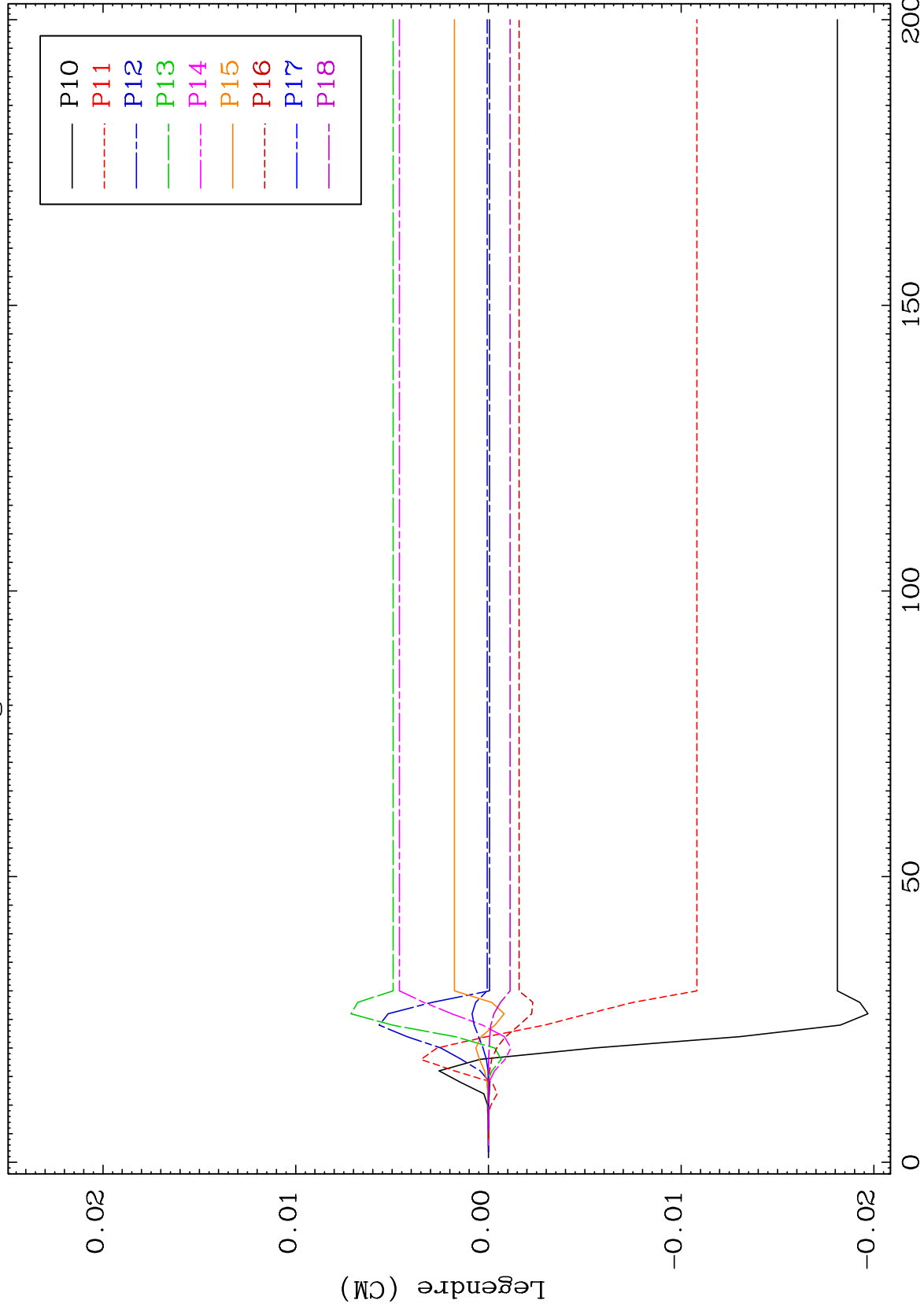
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



57

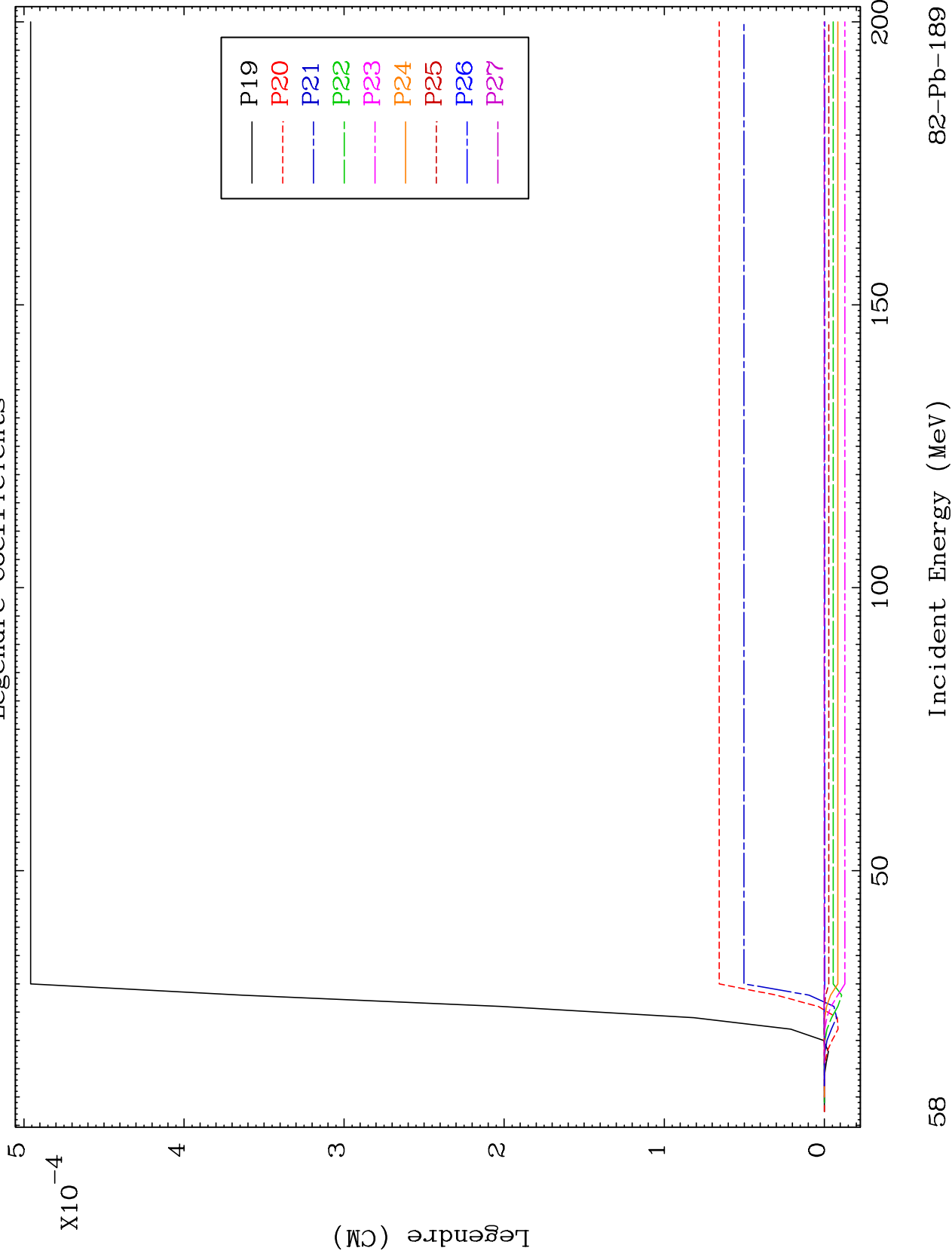
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



58

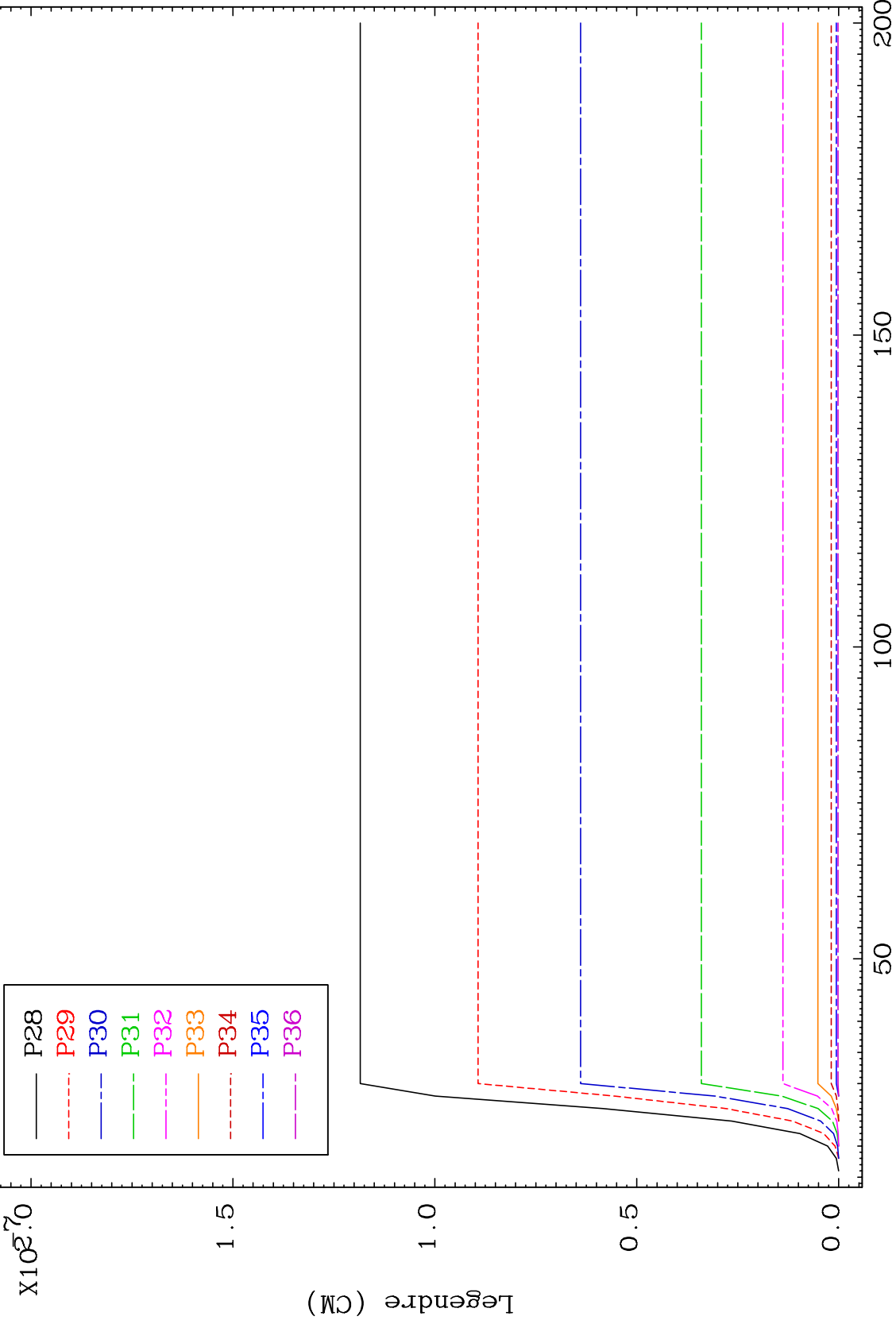
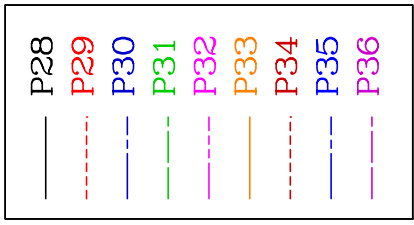
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



59

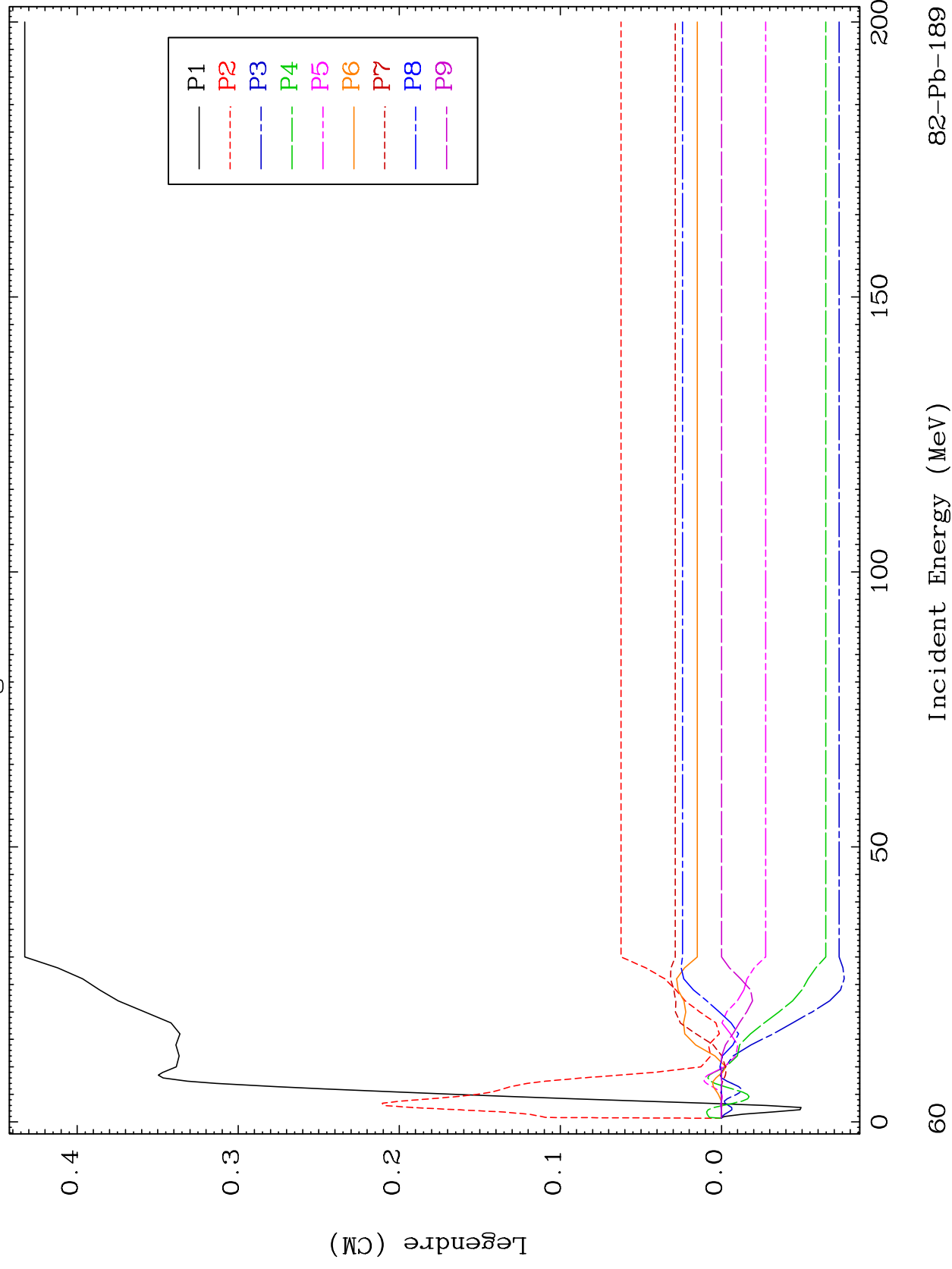
Incident Energy (MeV)

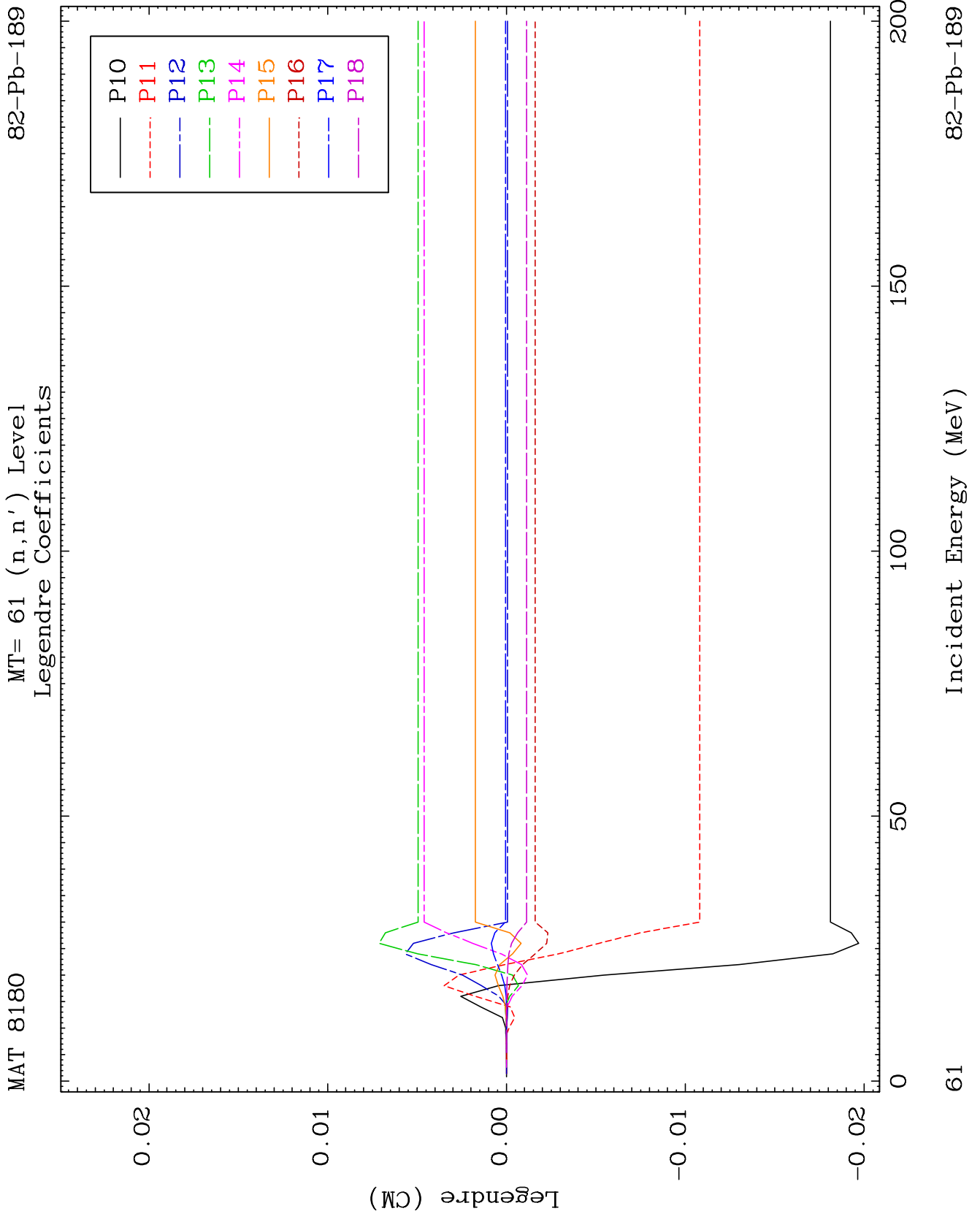
82-Pb-189

MAT 8180

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

82-Pb-189

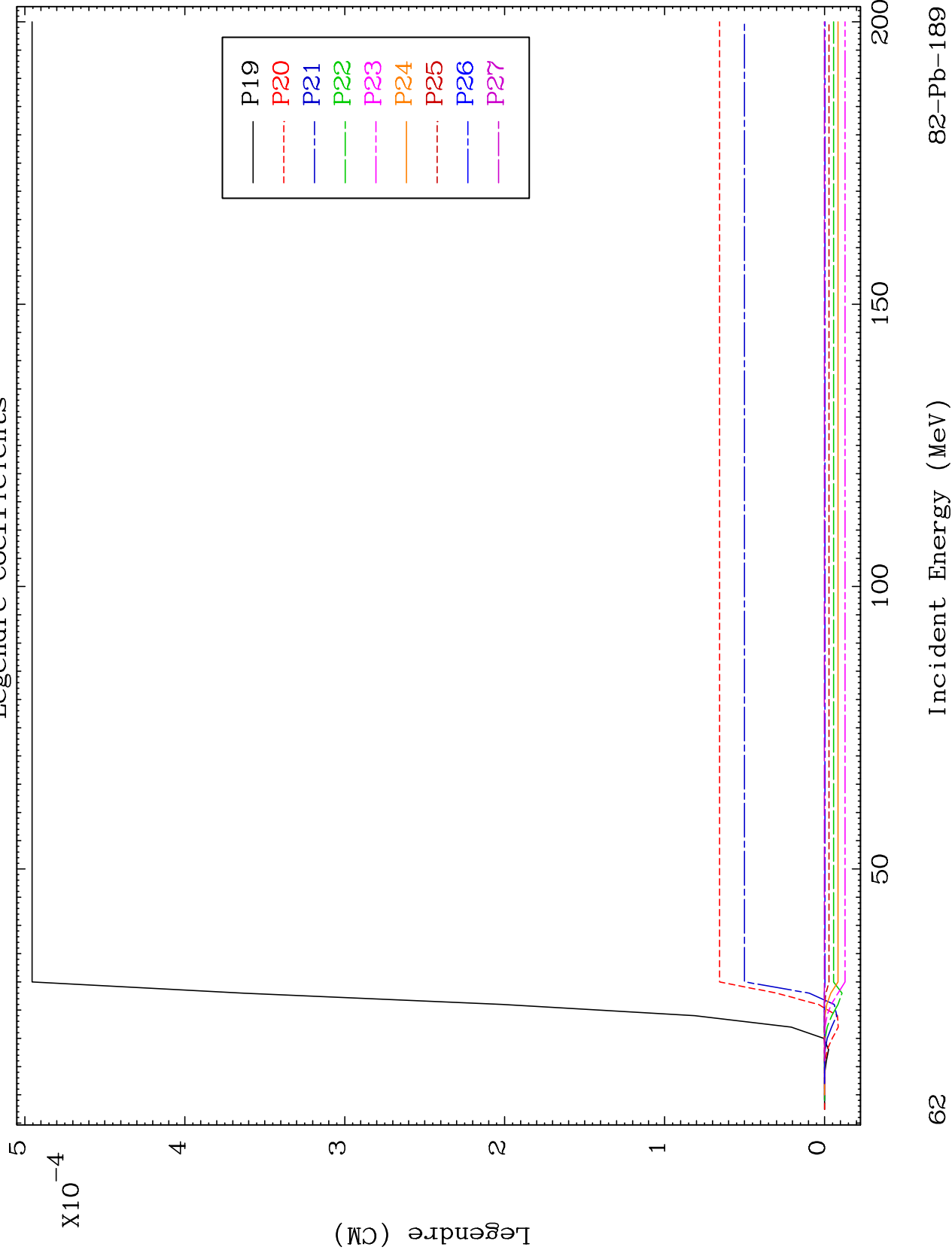




MAT 8180

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

82-Pb-189

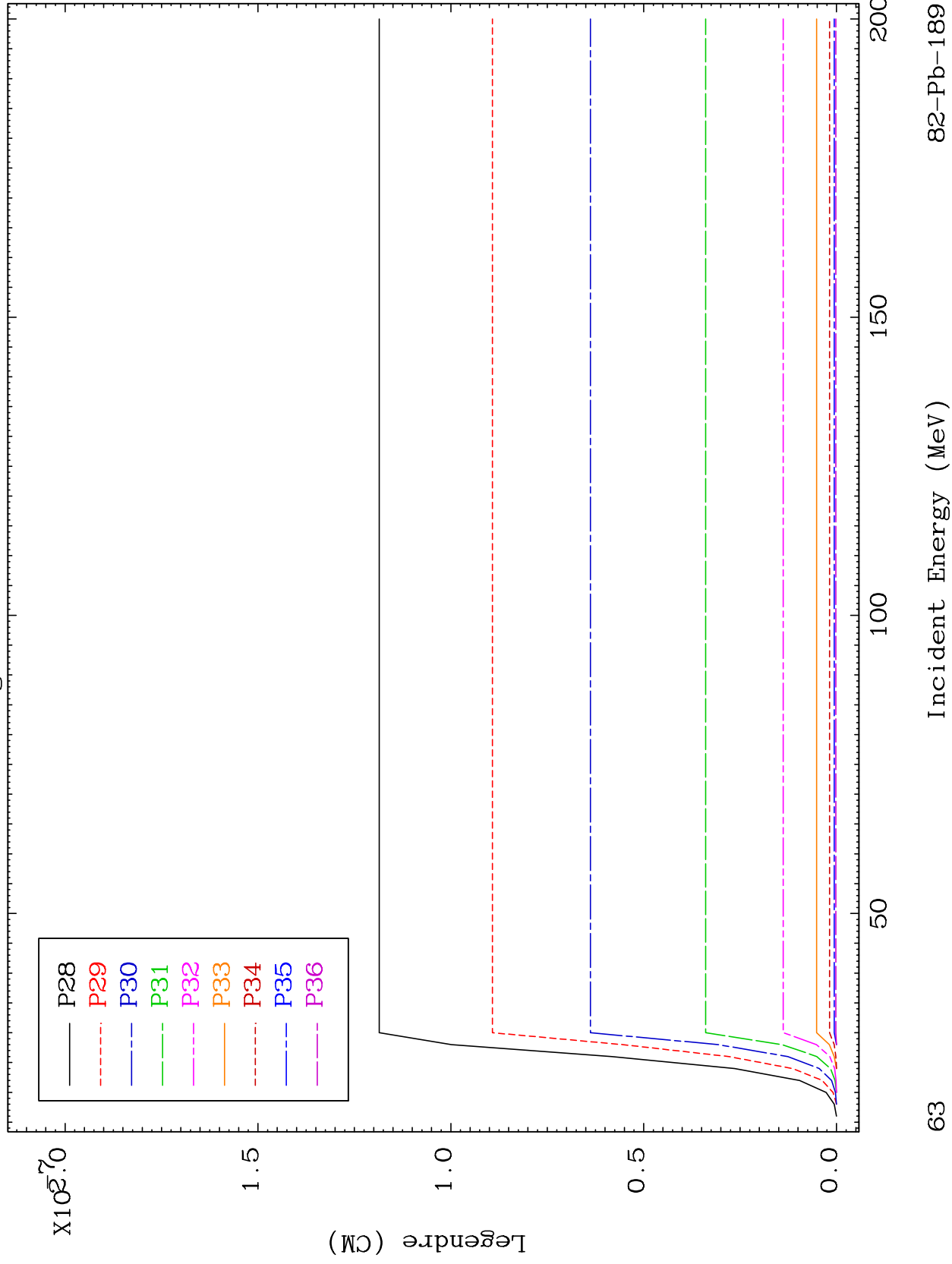


62

MAT 8180

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

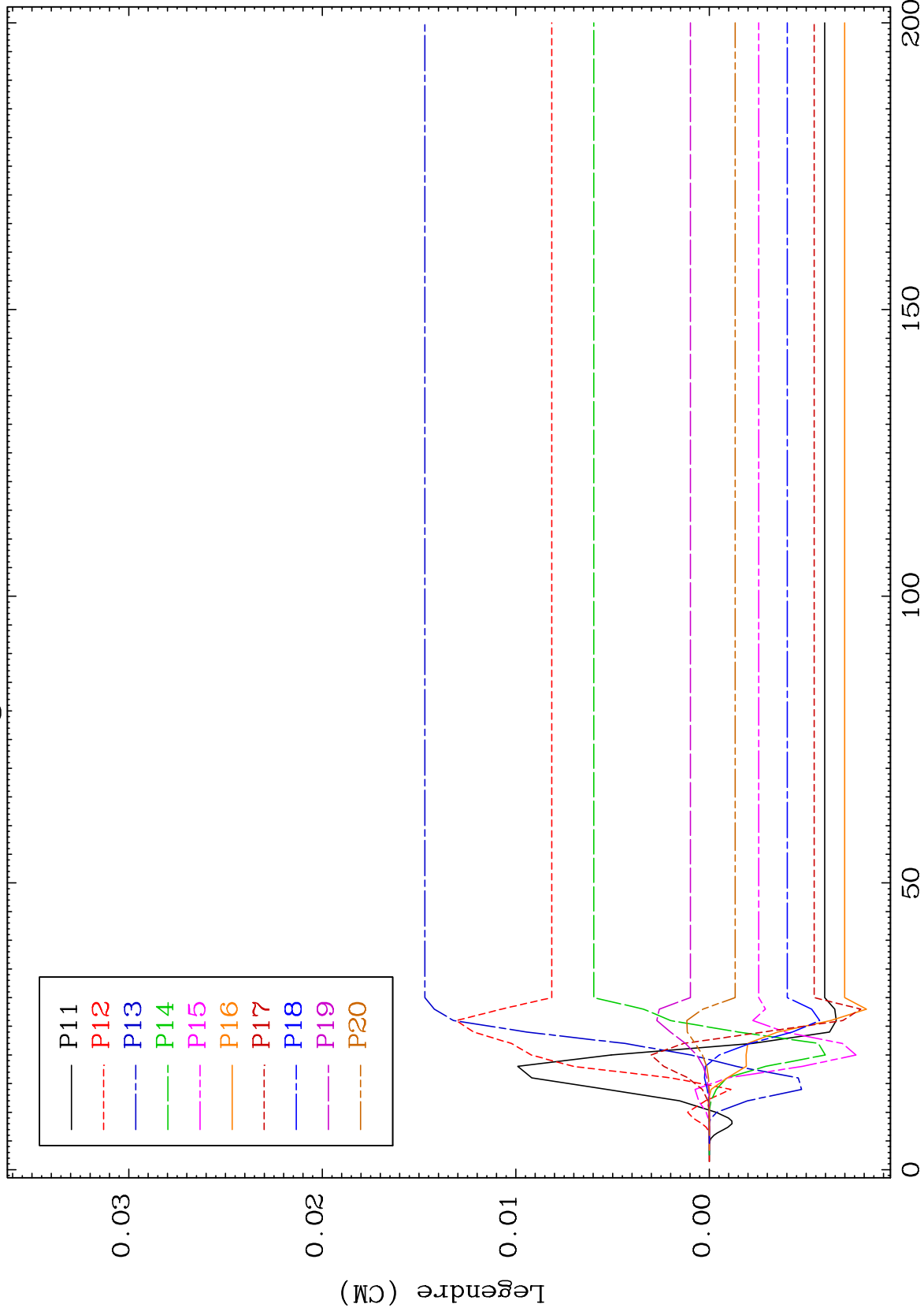
82-Pb-189



MAT 8180

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

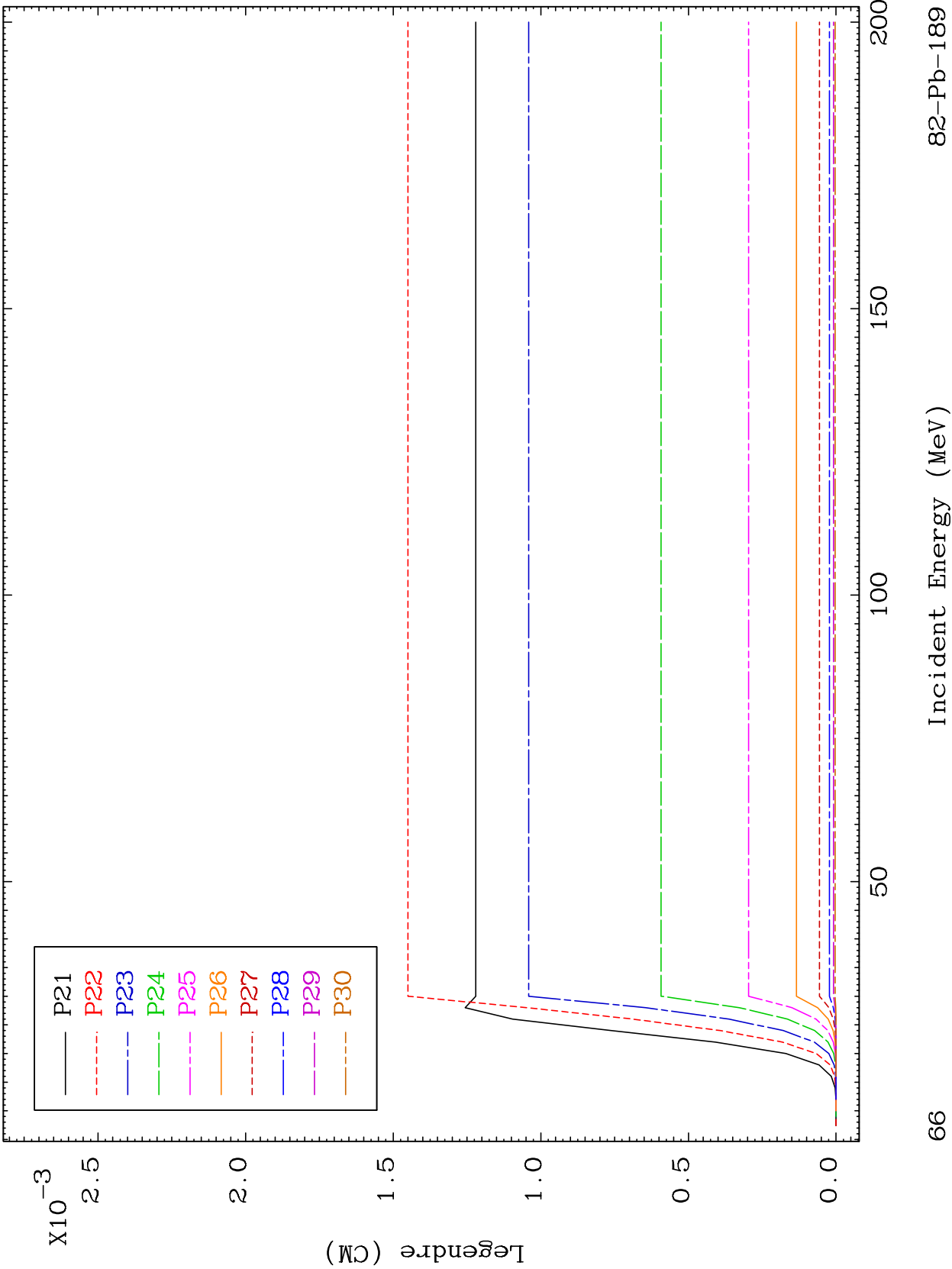
82-Pb-189



65

Incident Energy (MeV)

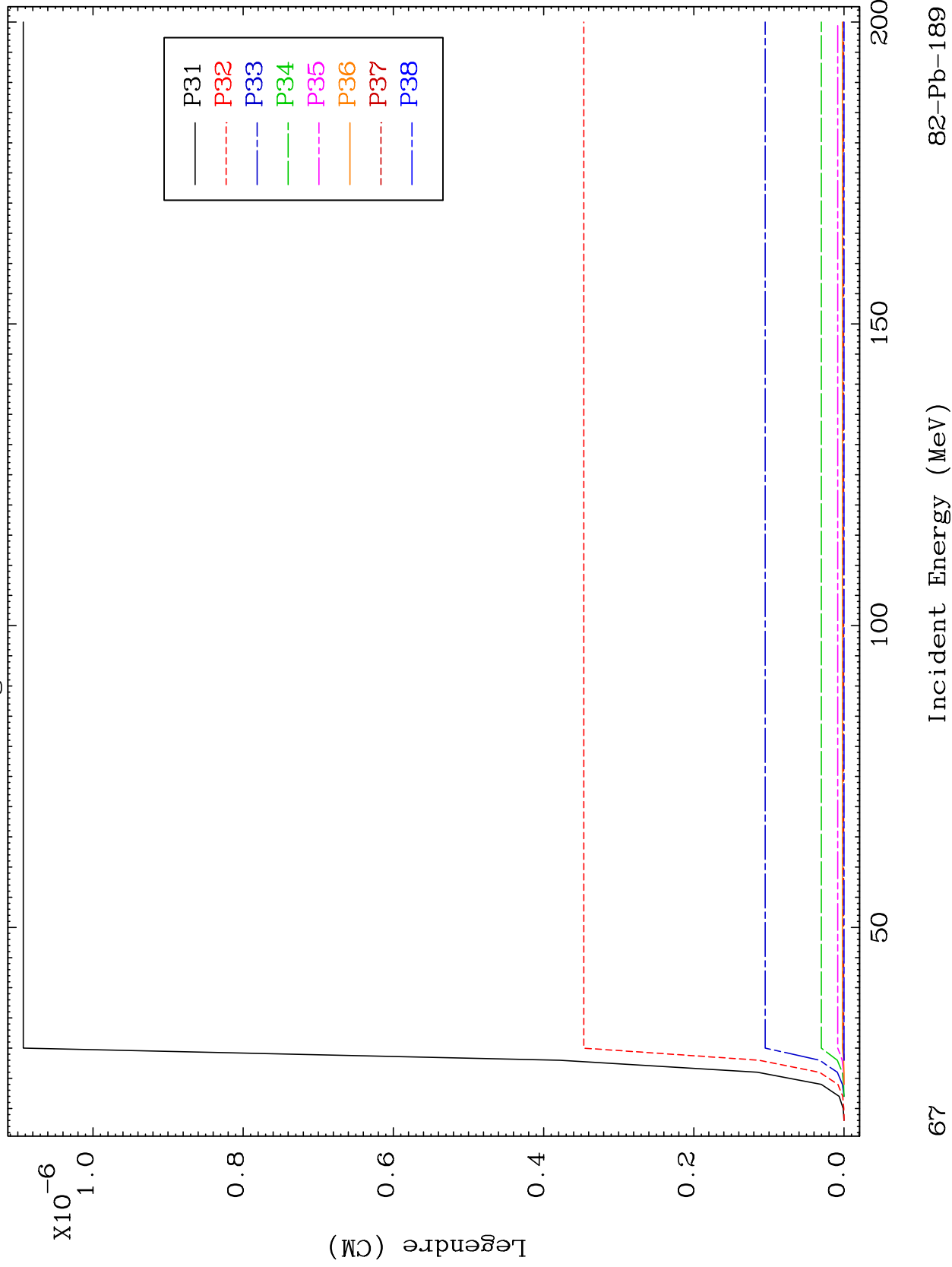
82-Pb-189



MAT 8180

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

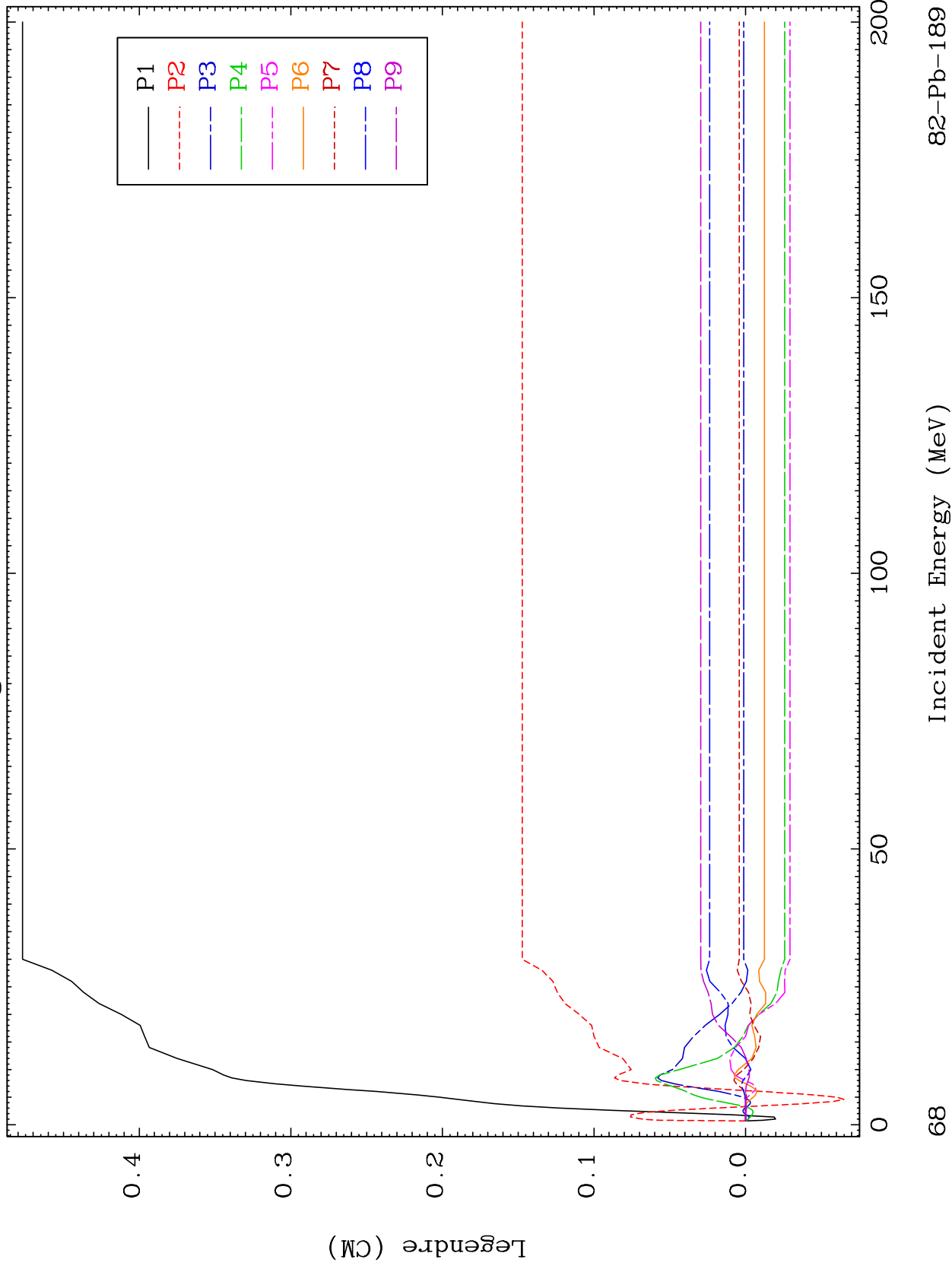
82-Pb-189



MAT 8180

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

82-Pb-189



82-Pb-189

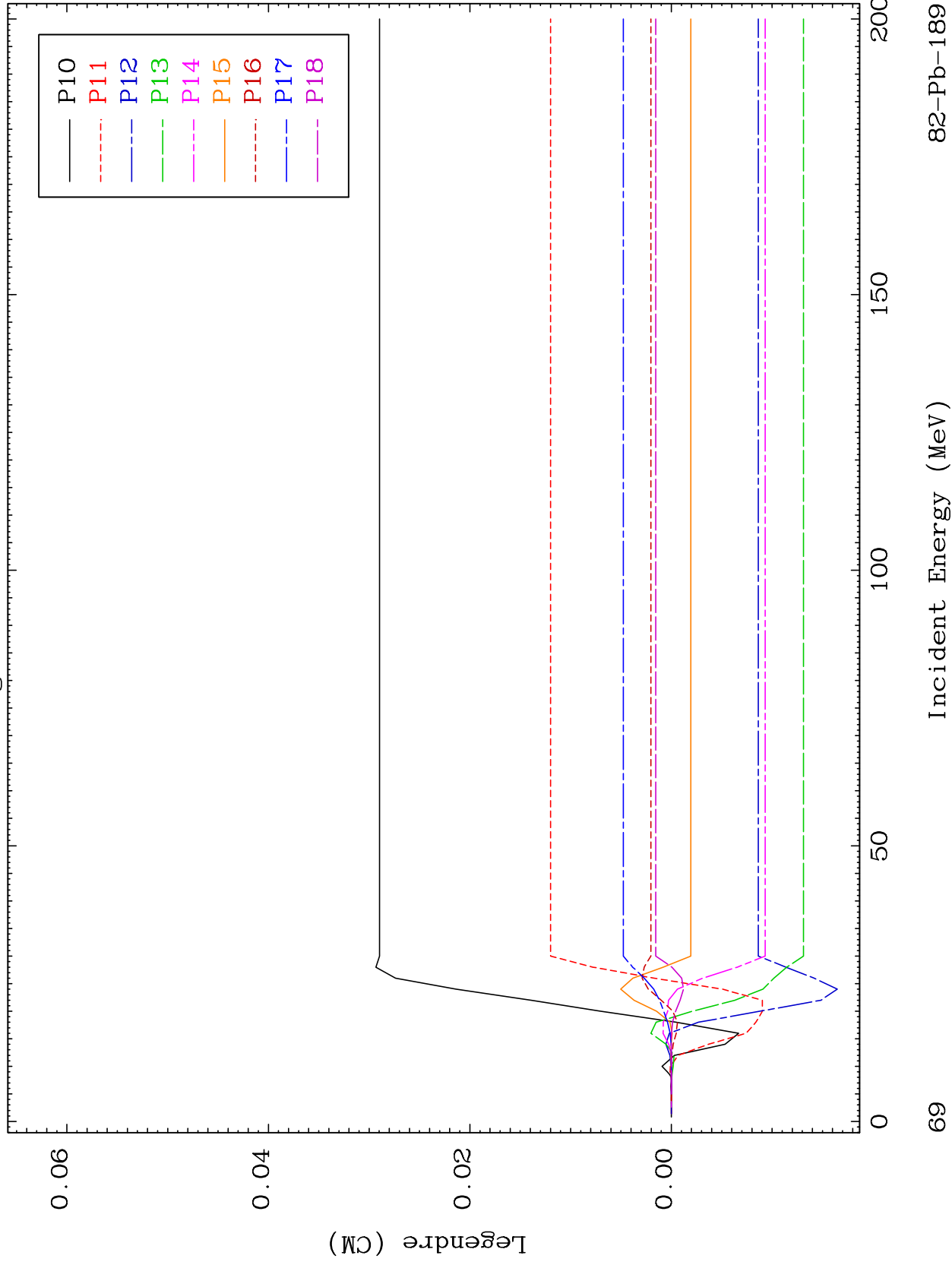
Incident Energy (MeV)

68

MAT 8180

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

82-Pb-189



69

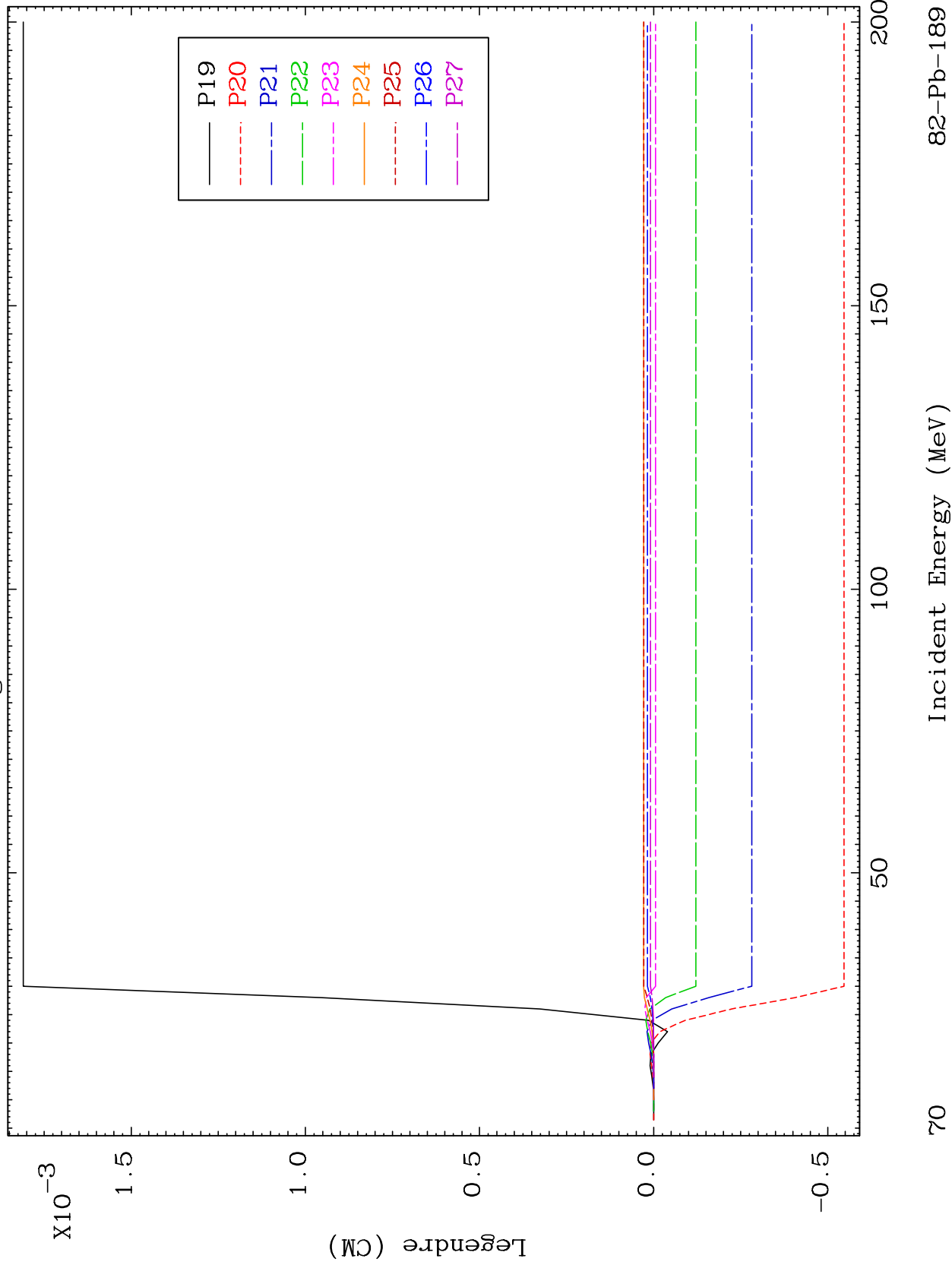
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



70

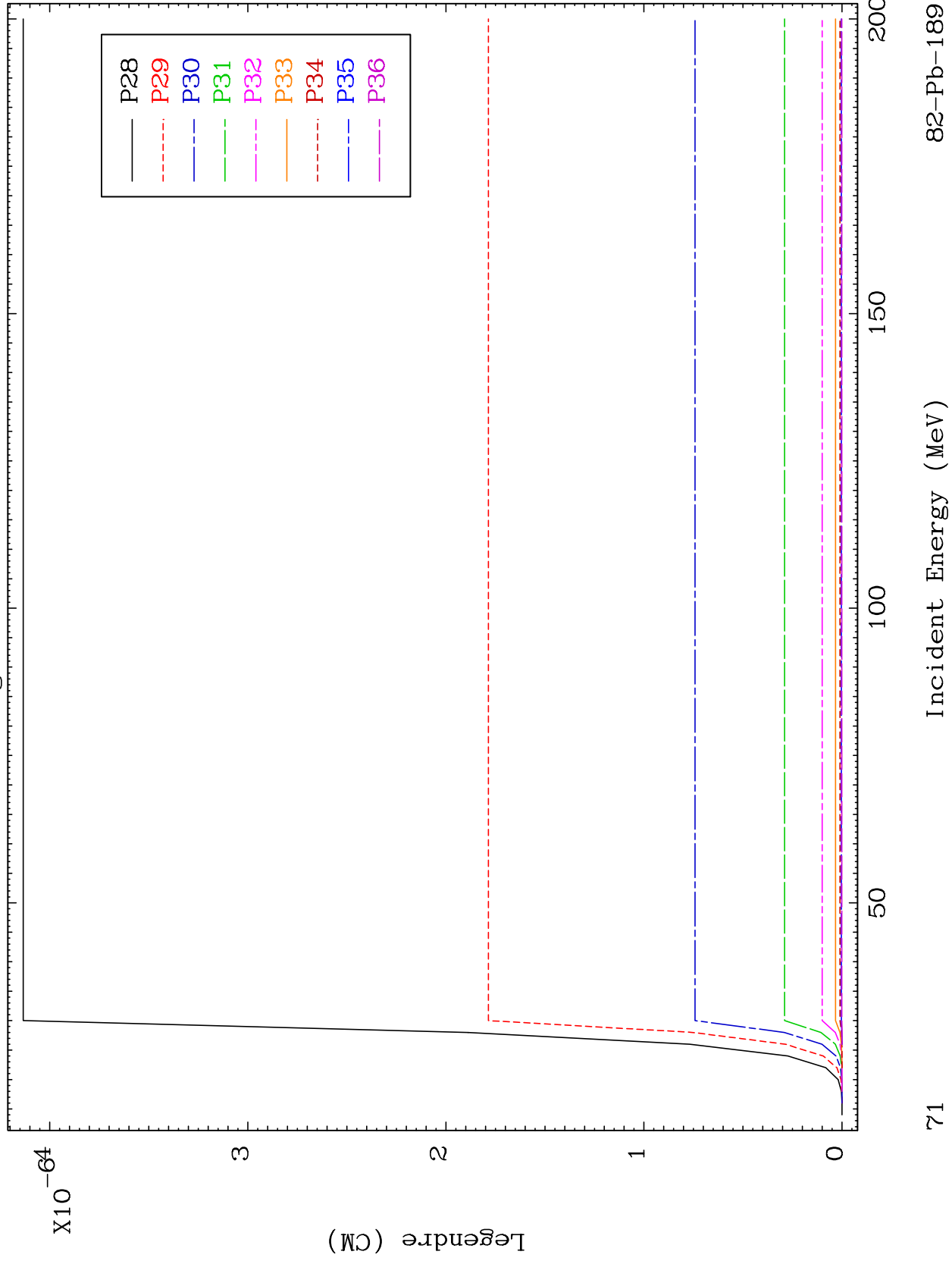
Incident Energy (MeV)

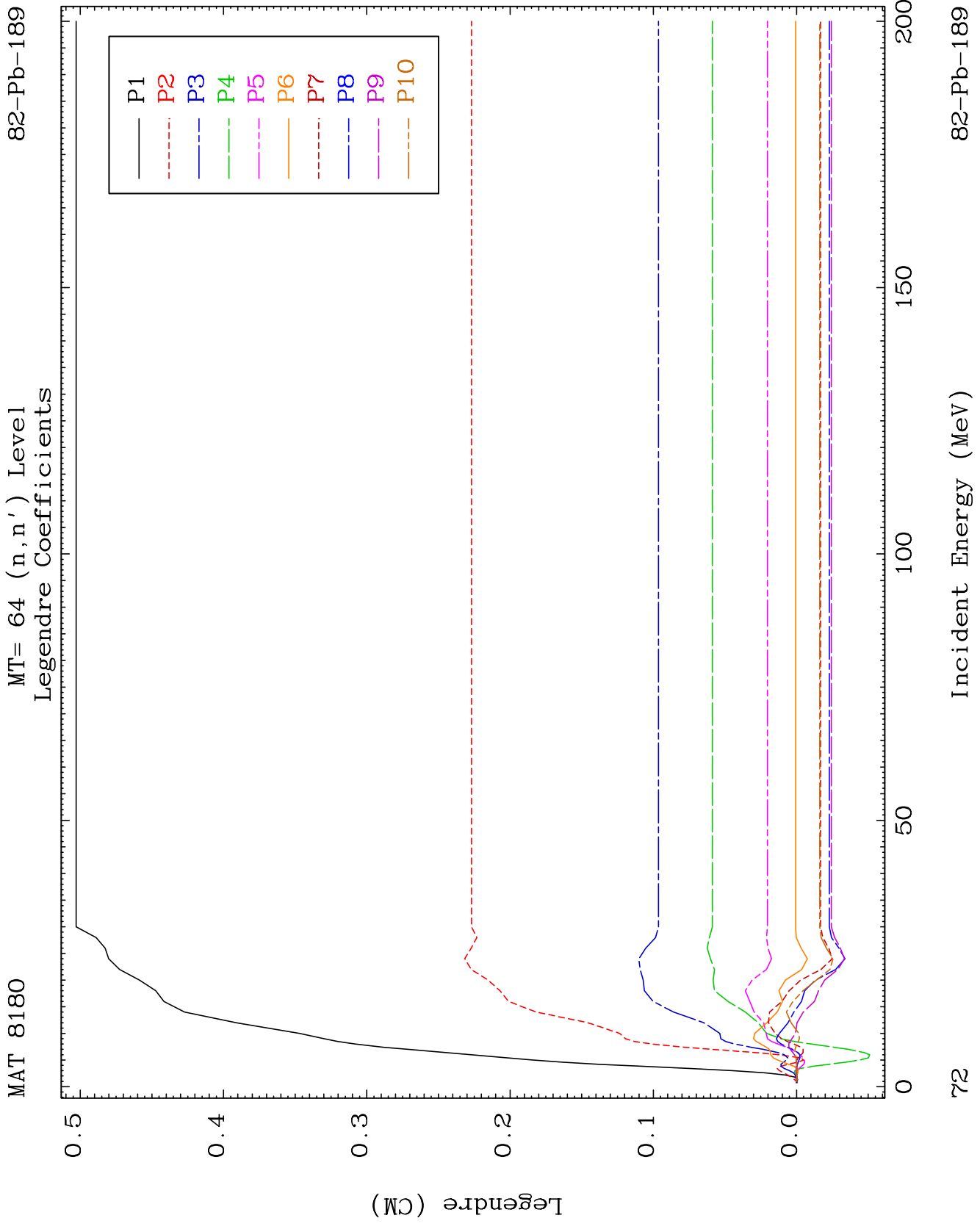
82-Pb-189

MAT 8180

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

82-Pb-189

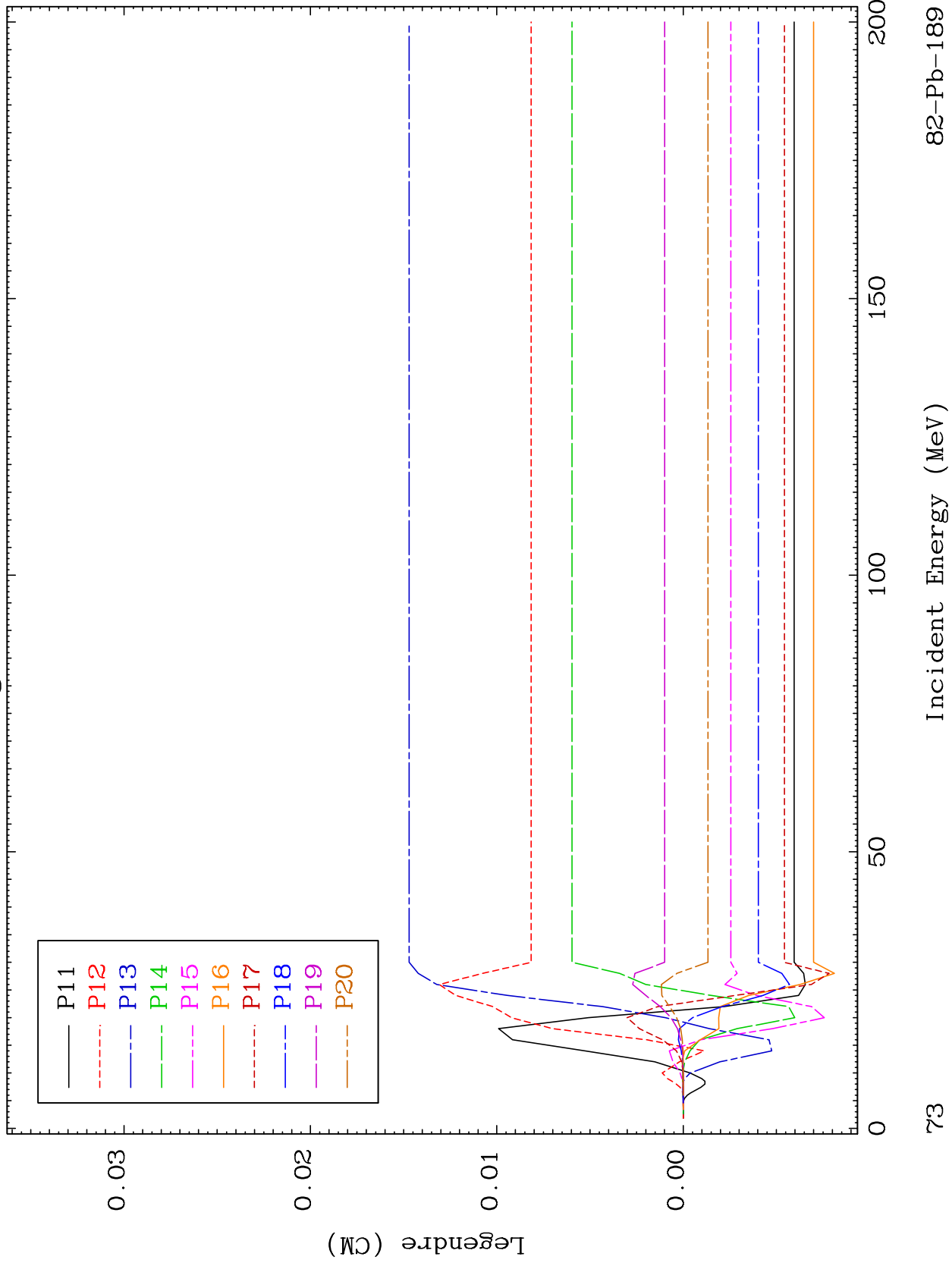




MAT 8180

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

82-Pb-189



73

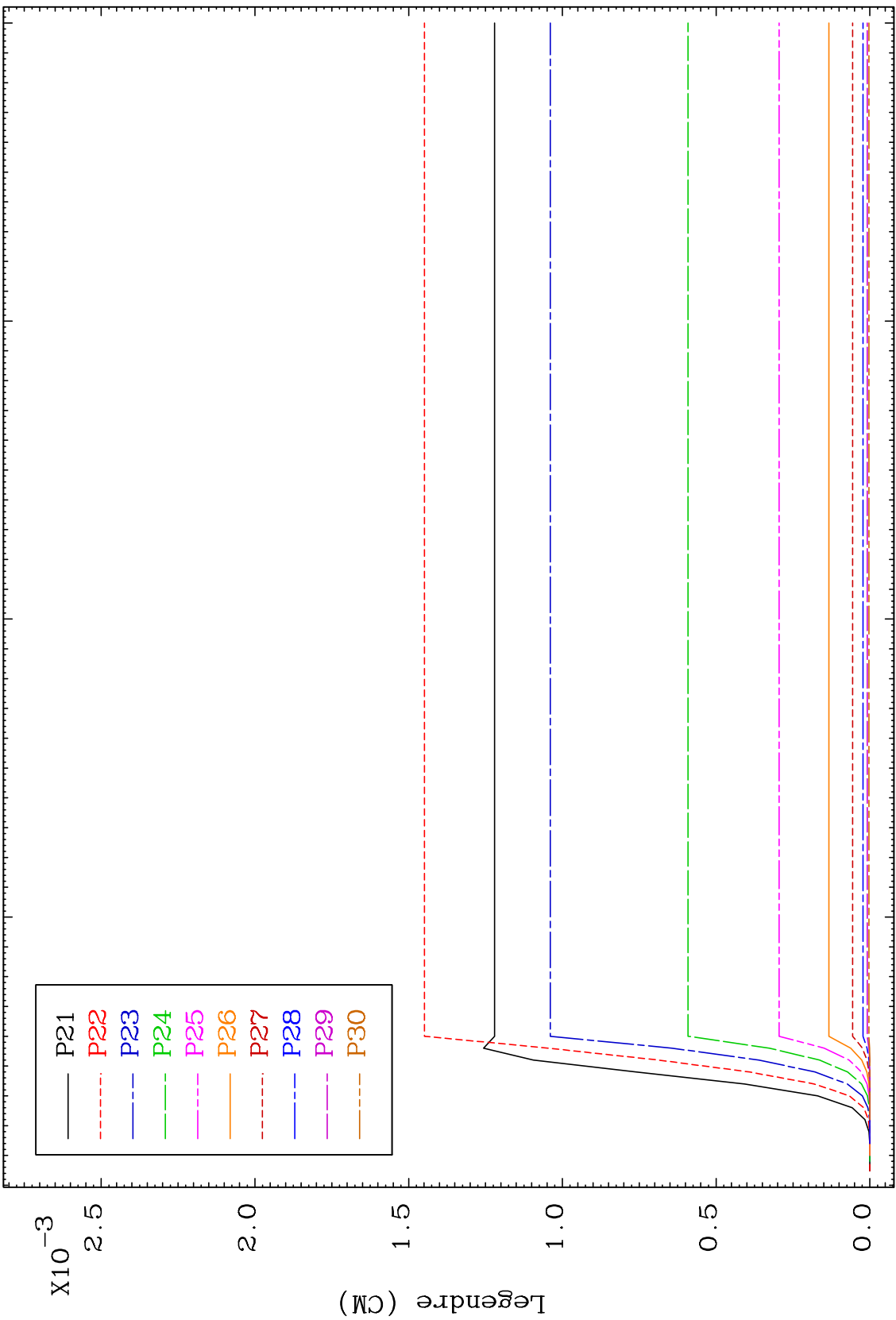
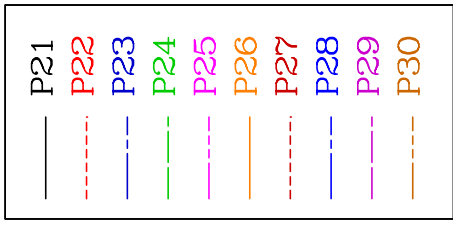
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



74

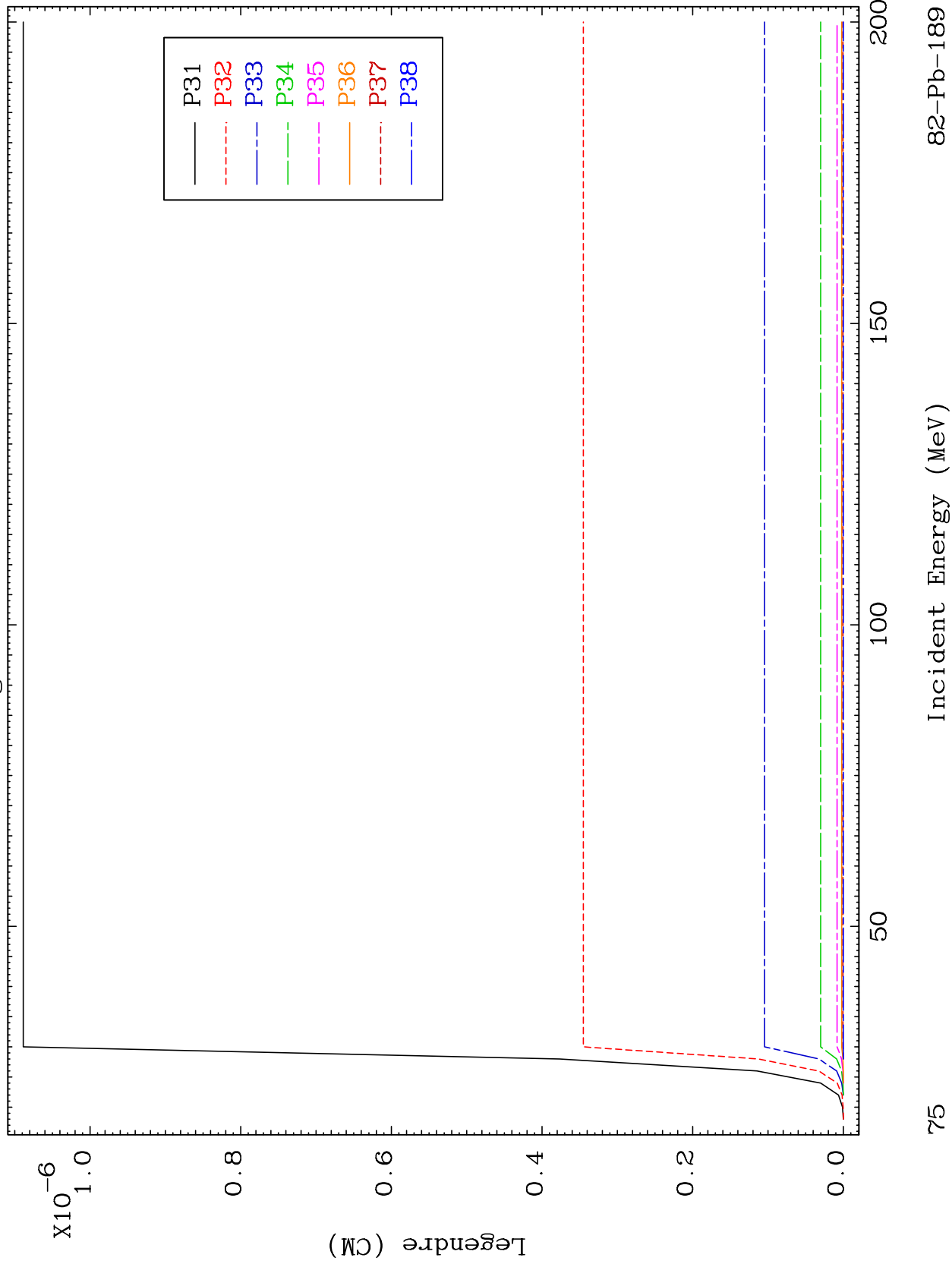
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



75

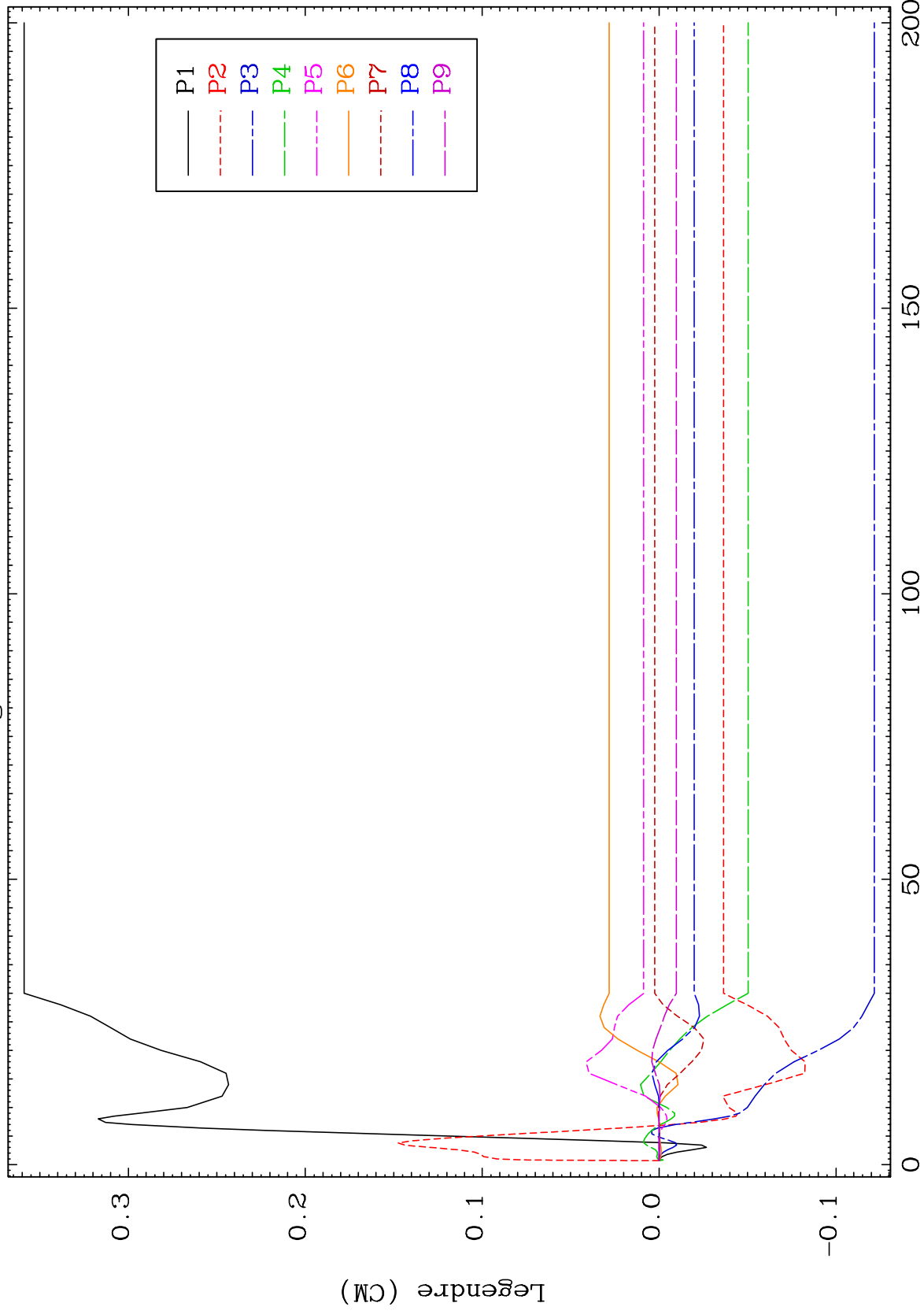
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

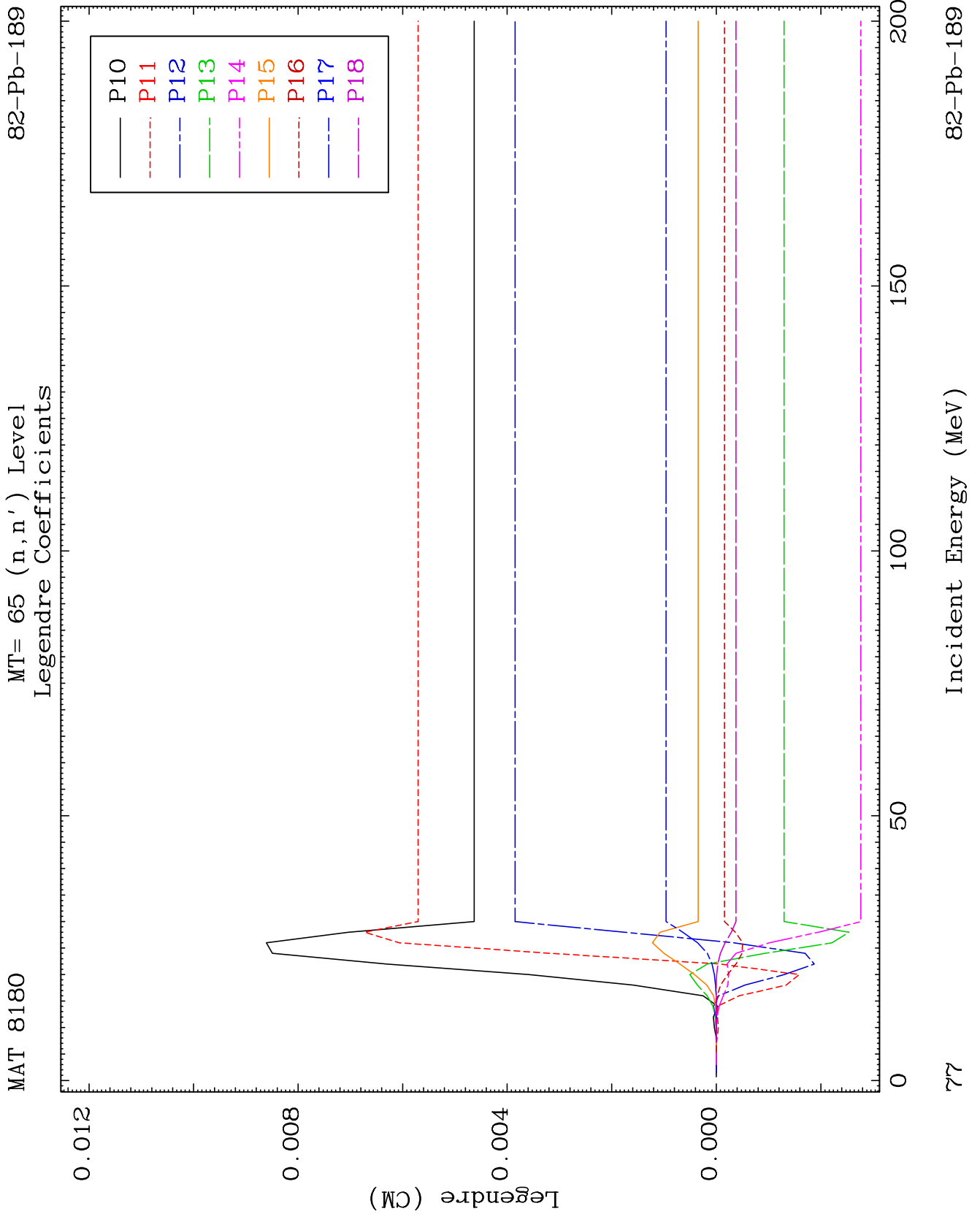
82-Pb-189



76

Incident Energy (MeV)

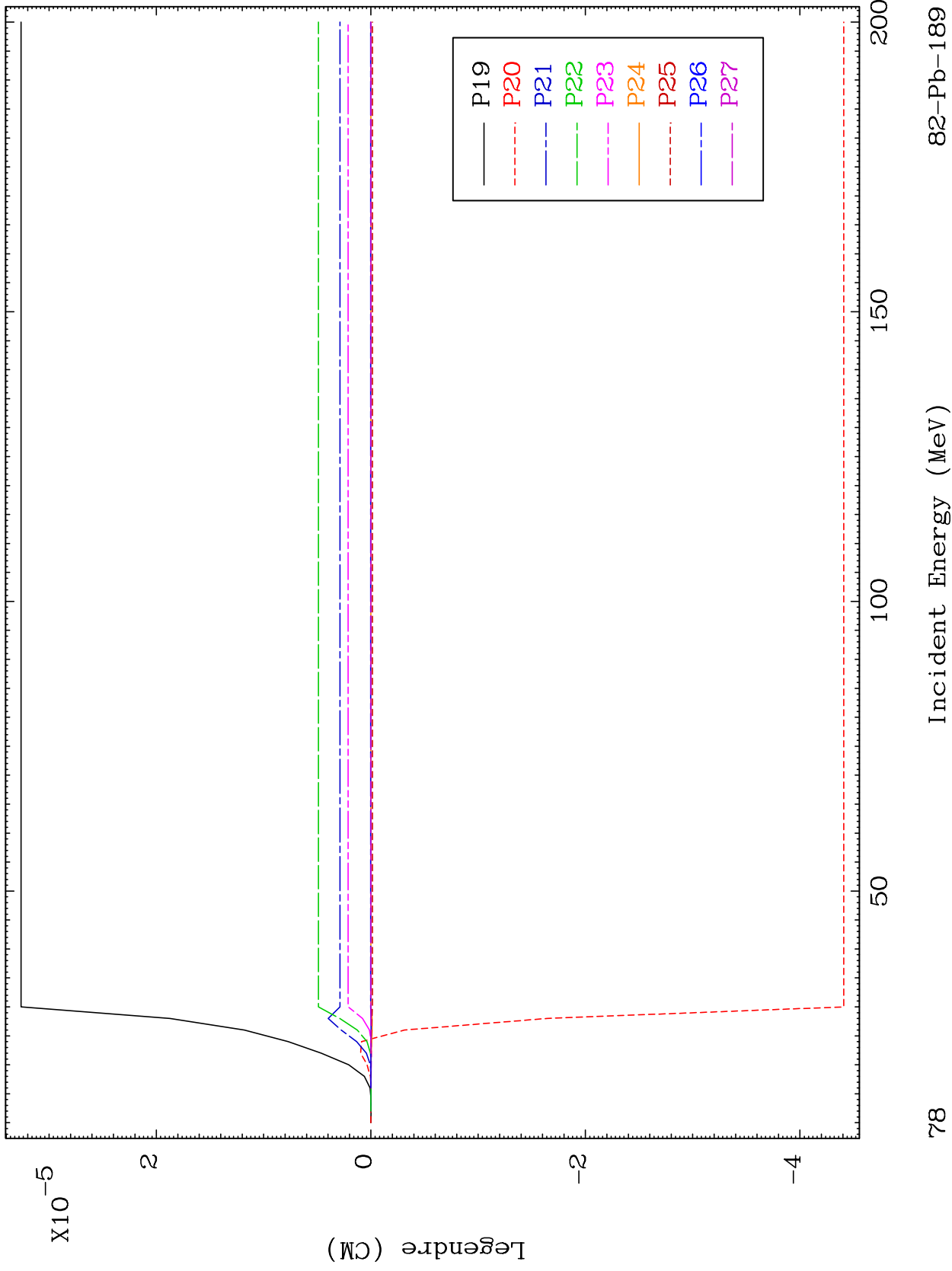
82-Pb-189

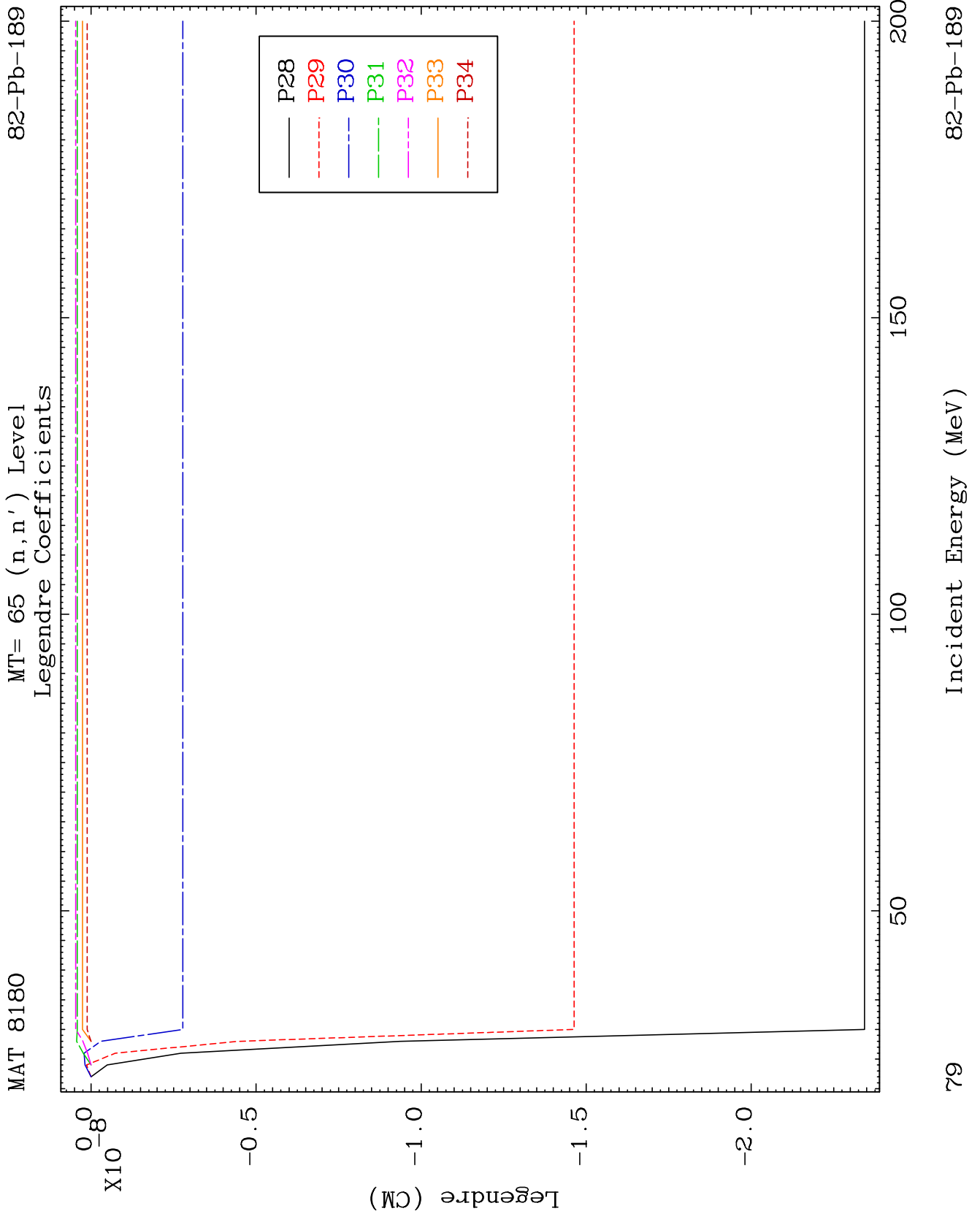


MAT 8180

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

82-Pb-189

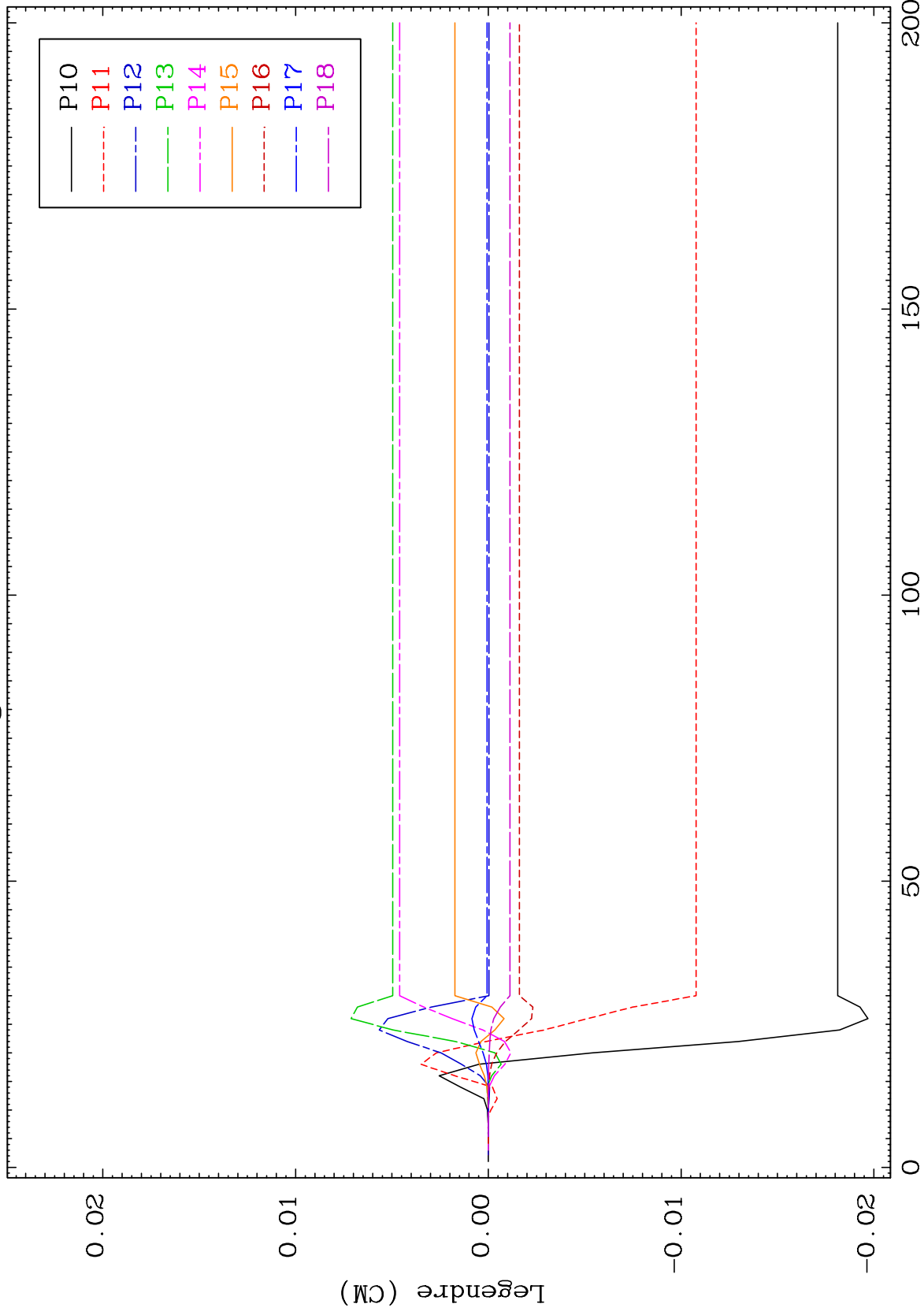




MAT 8180

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

82-Pb-189



81

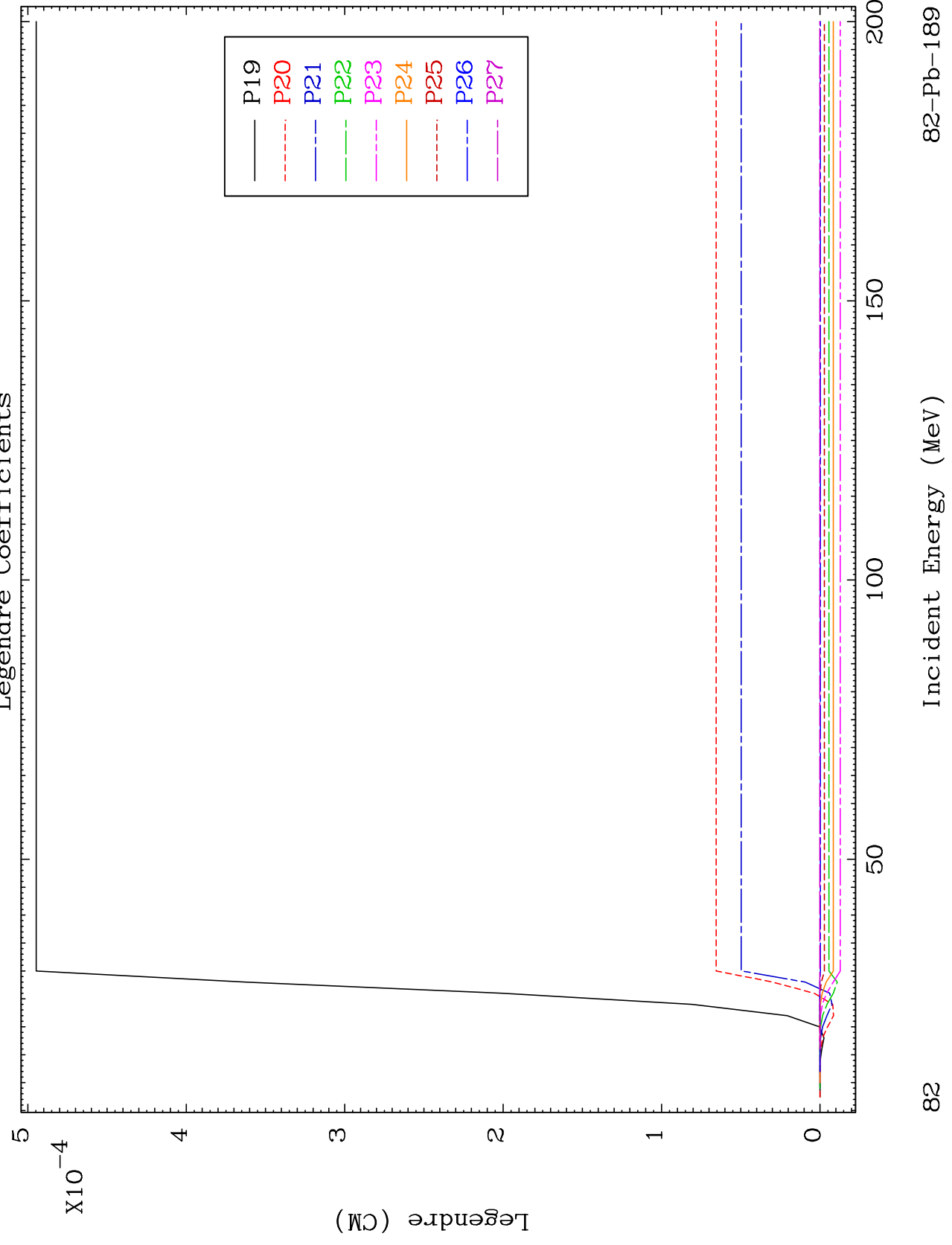
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



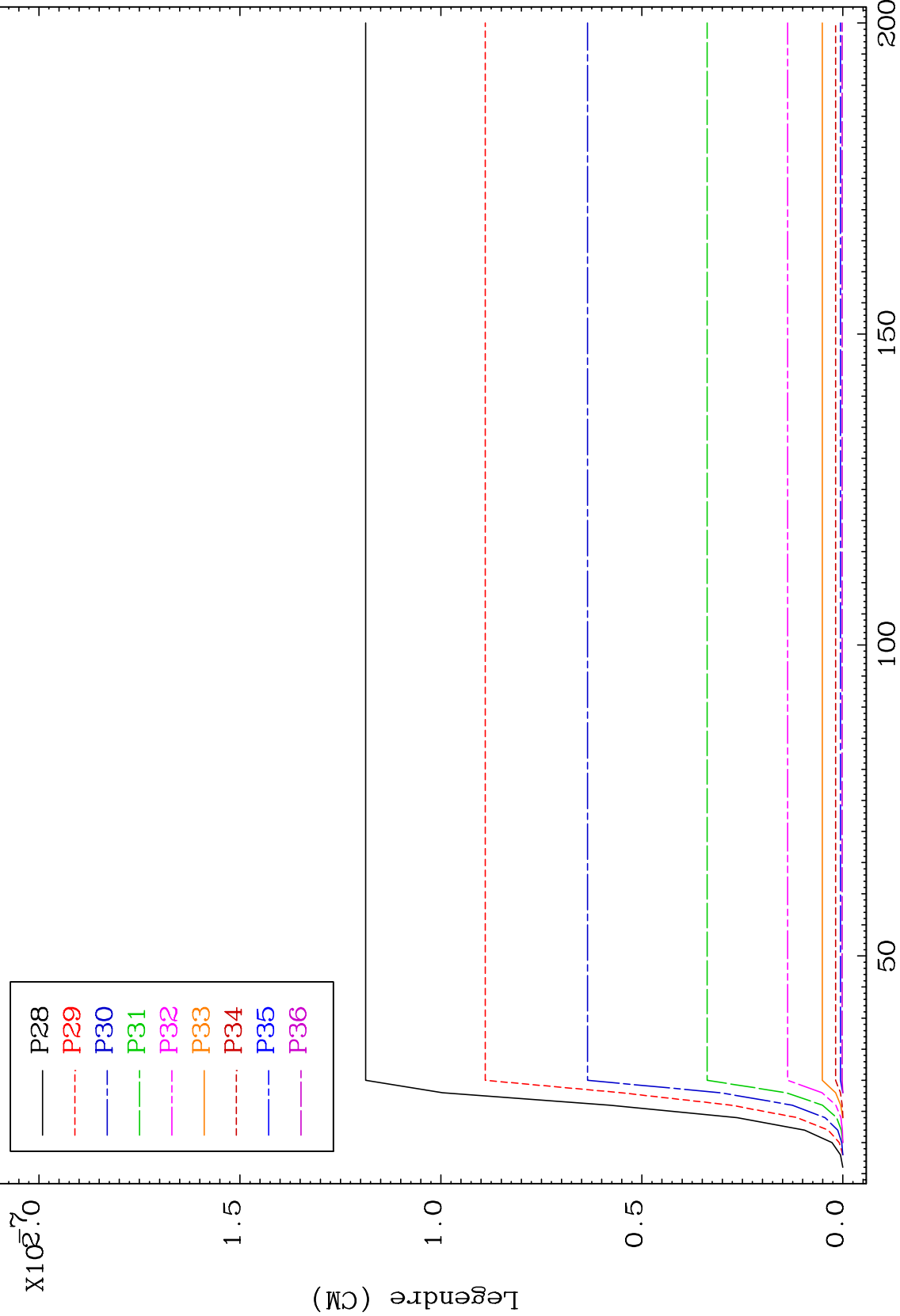
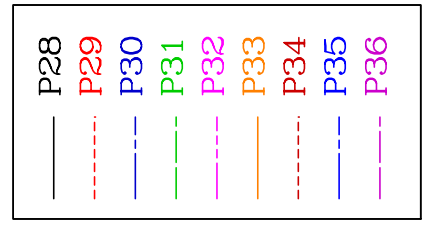
82

82-Pb-189

MAT 8180

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

82-Pb-189



83

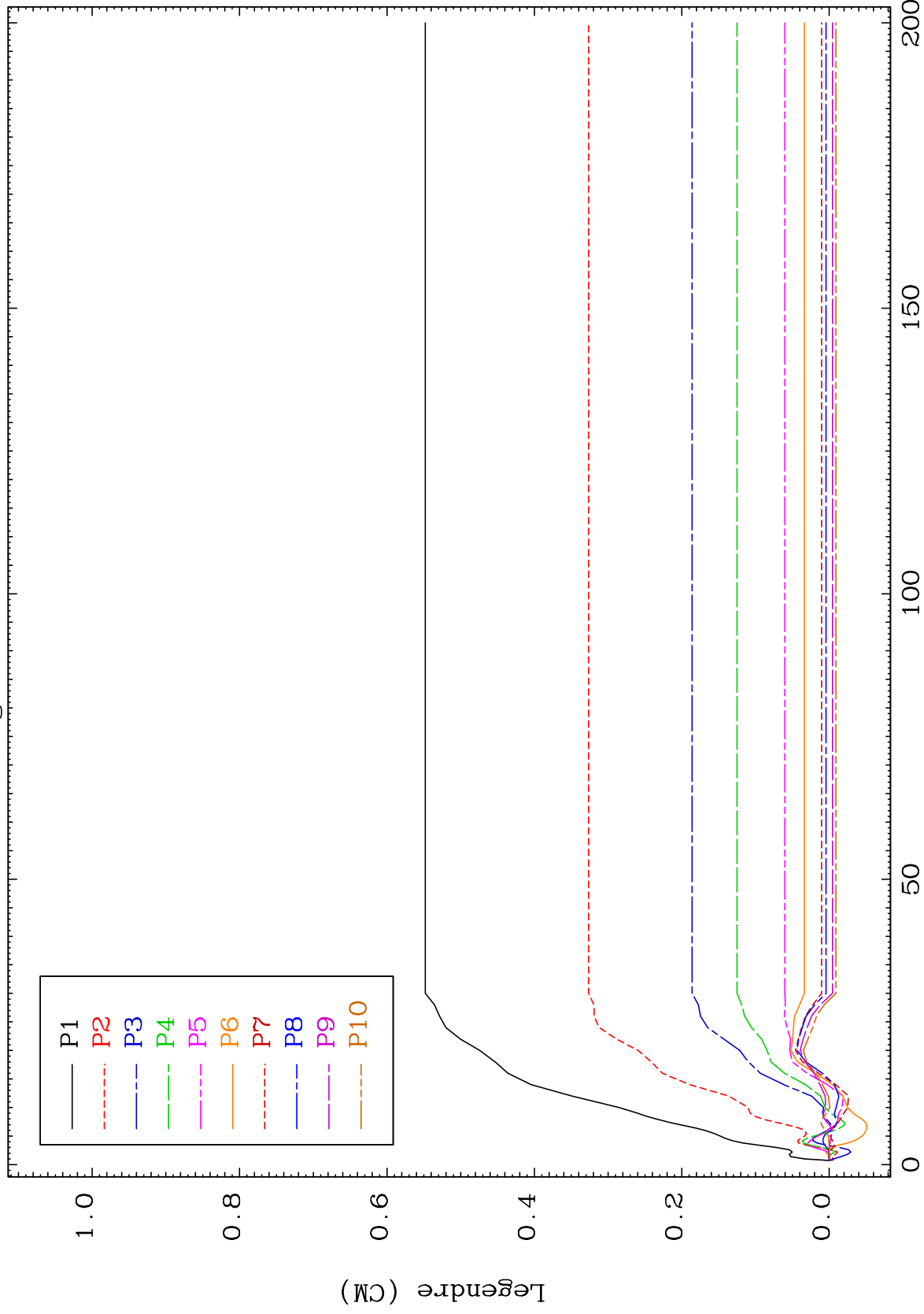
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



84

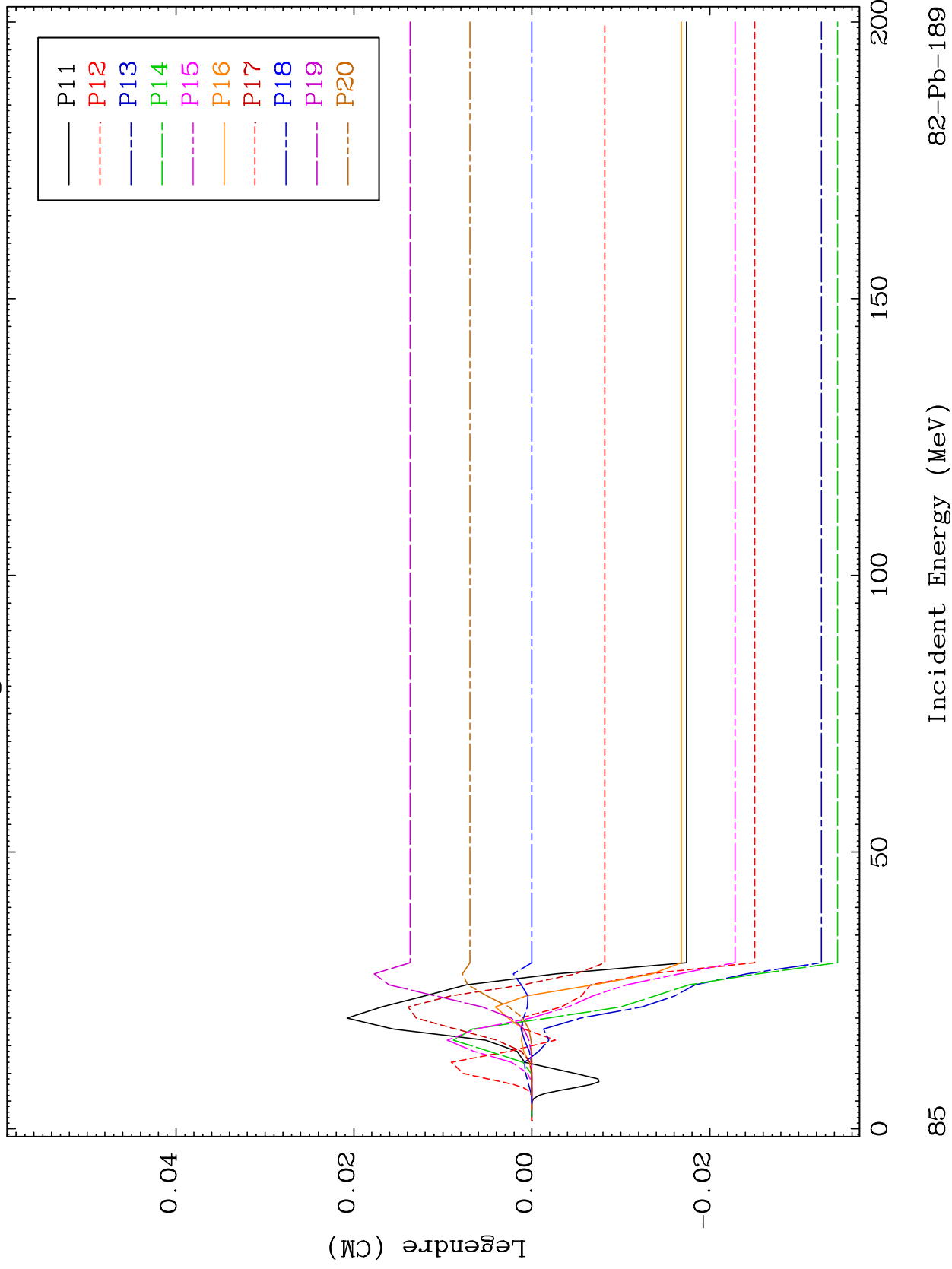
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



82-Pb-189

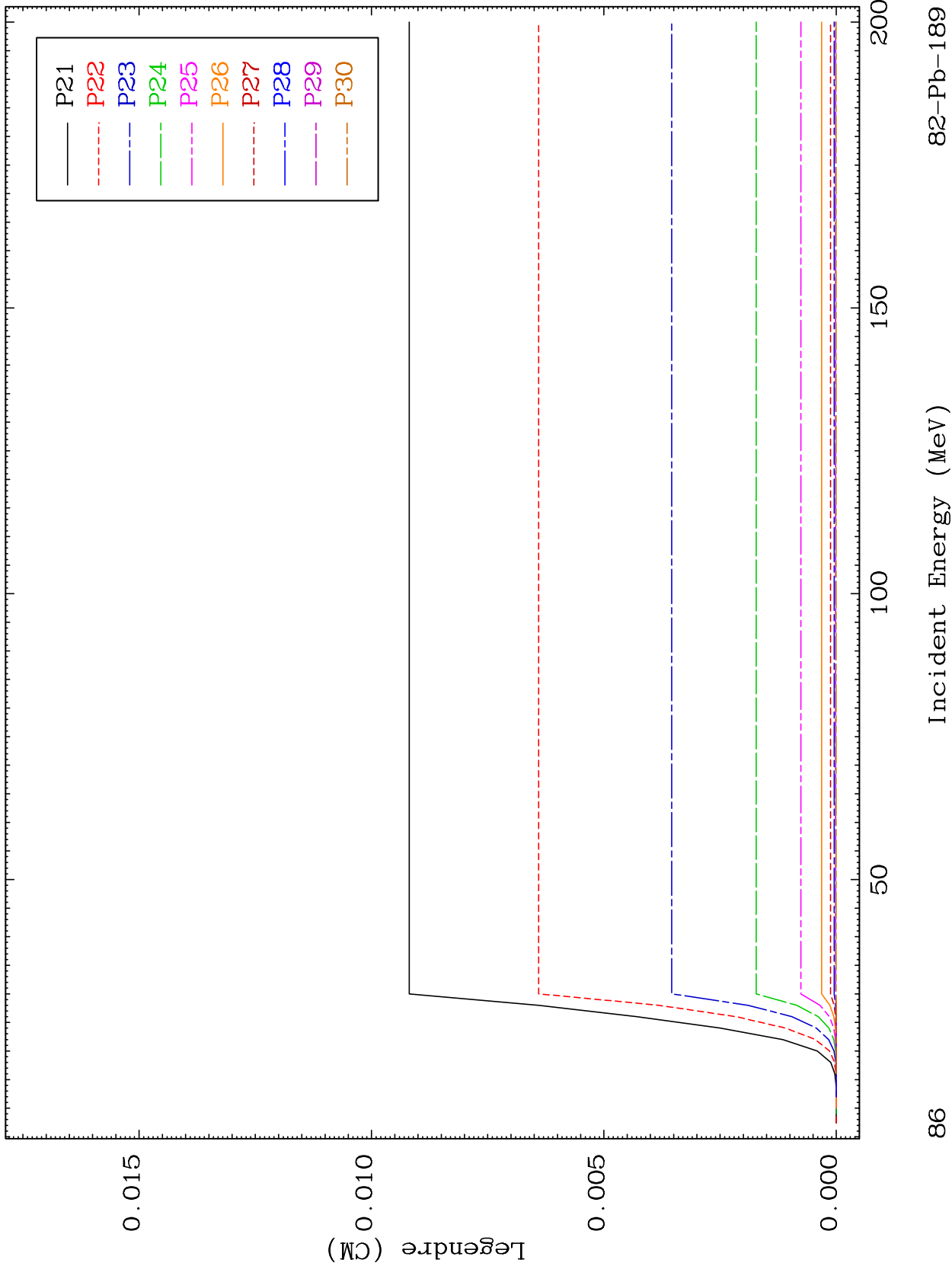
Incident Energy (MeV)

85

MAT 8180

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

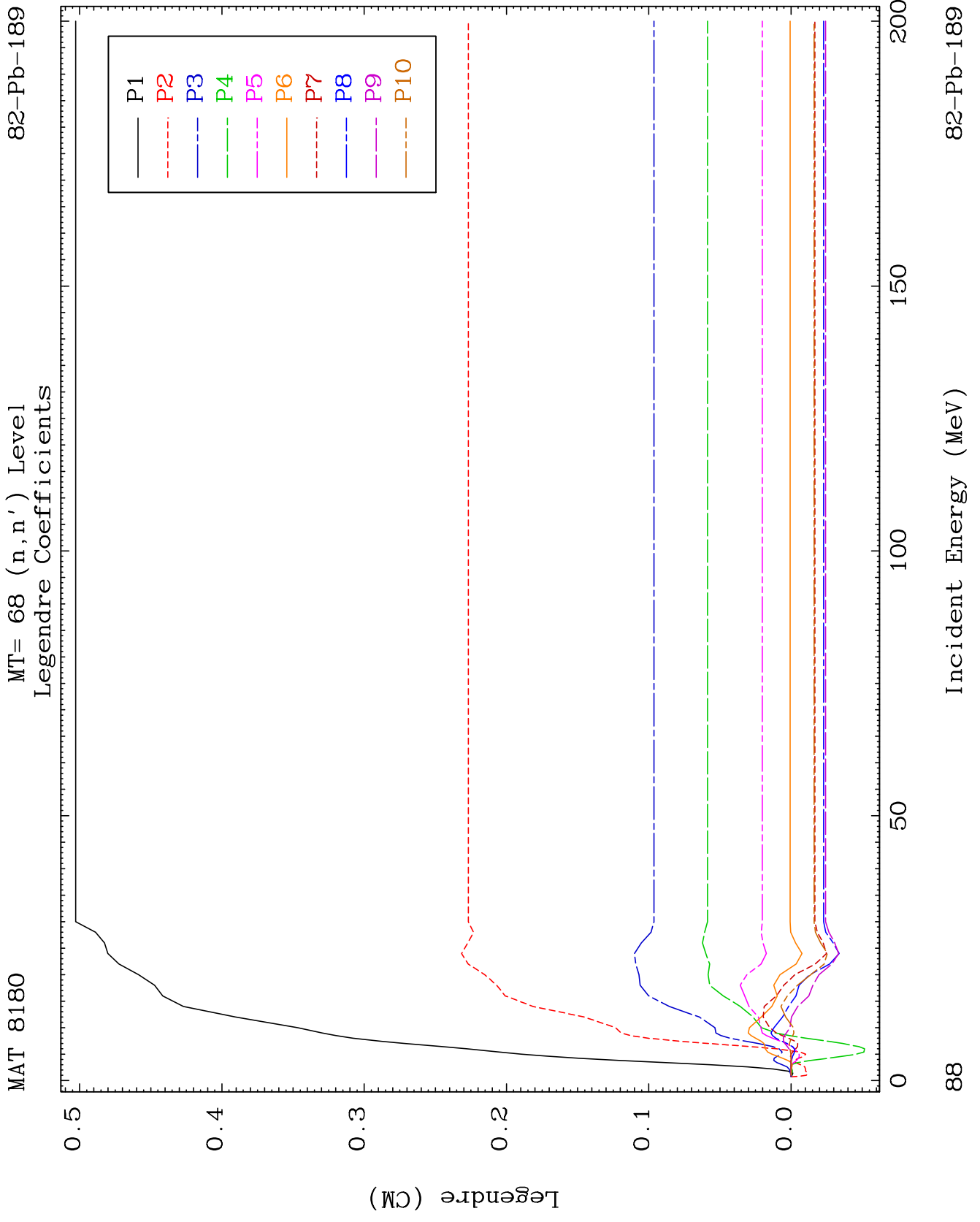
82-Pb-189



86

Incident Energy (MeV)

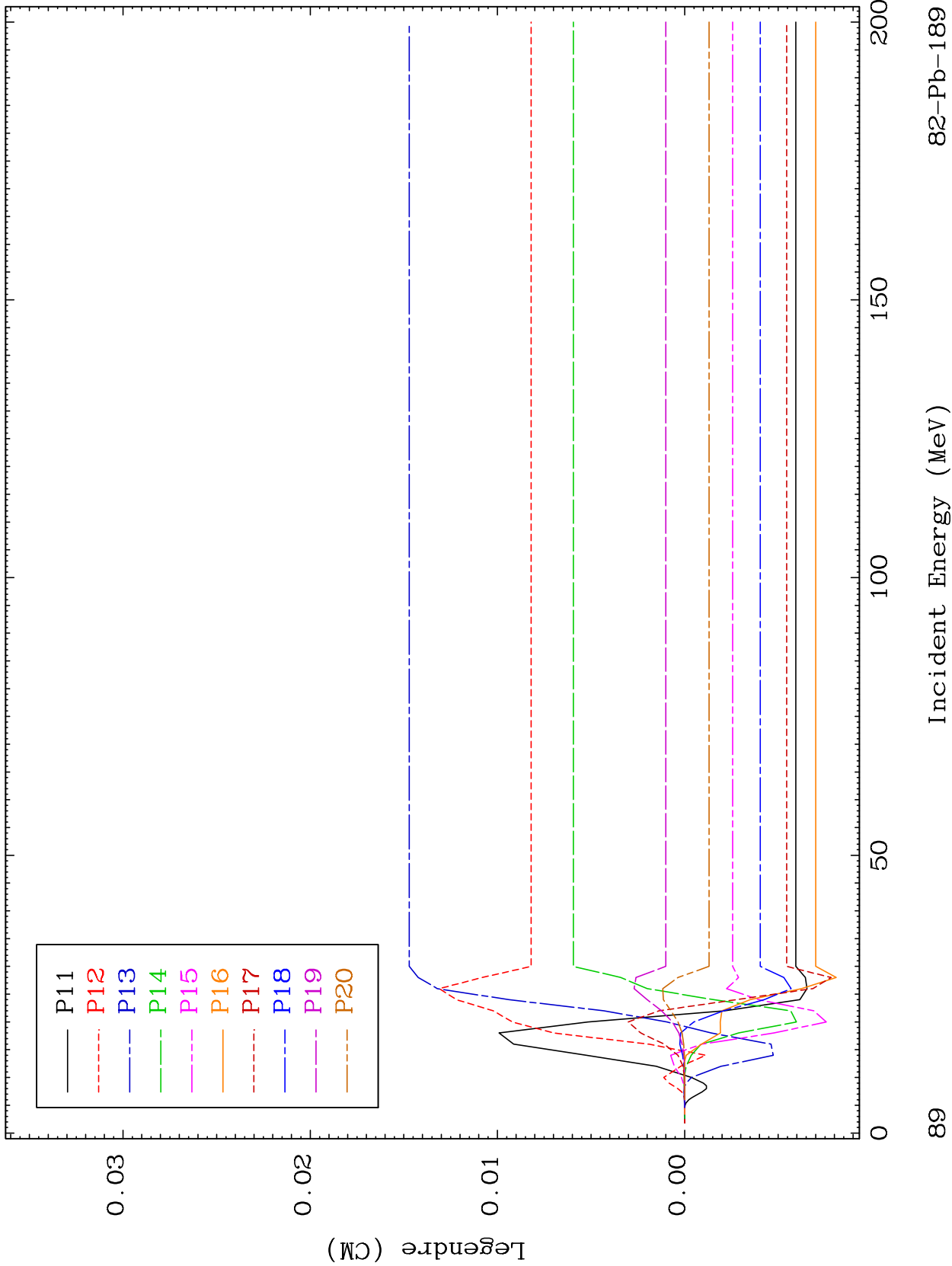
82-Pb-189



MAT 8180

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

82-Pb-189



89

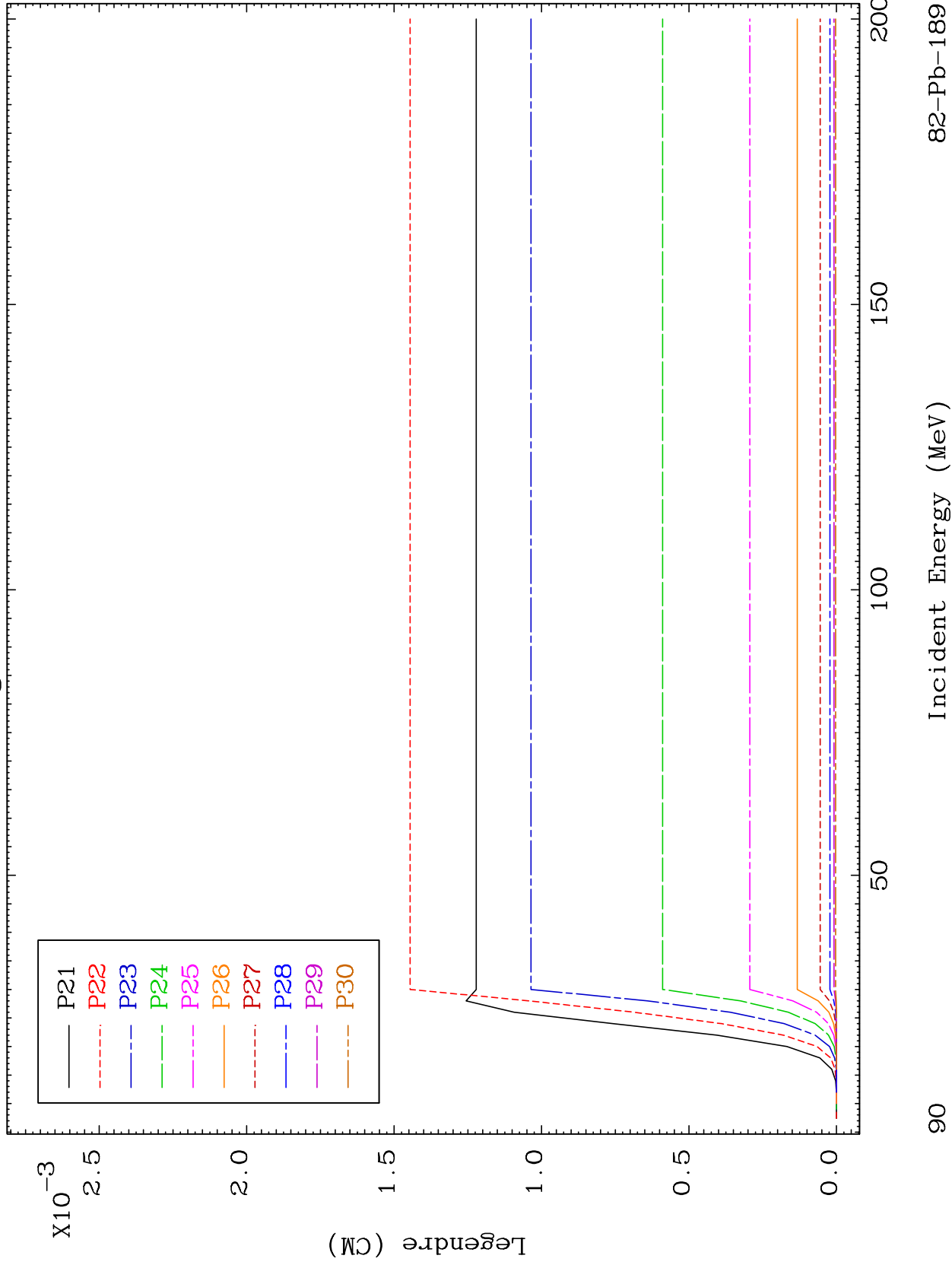
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

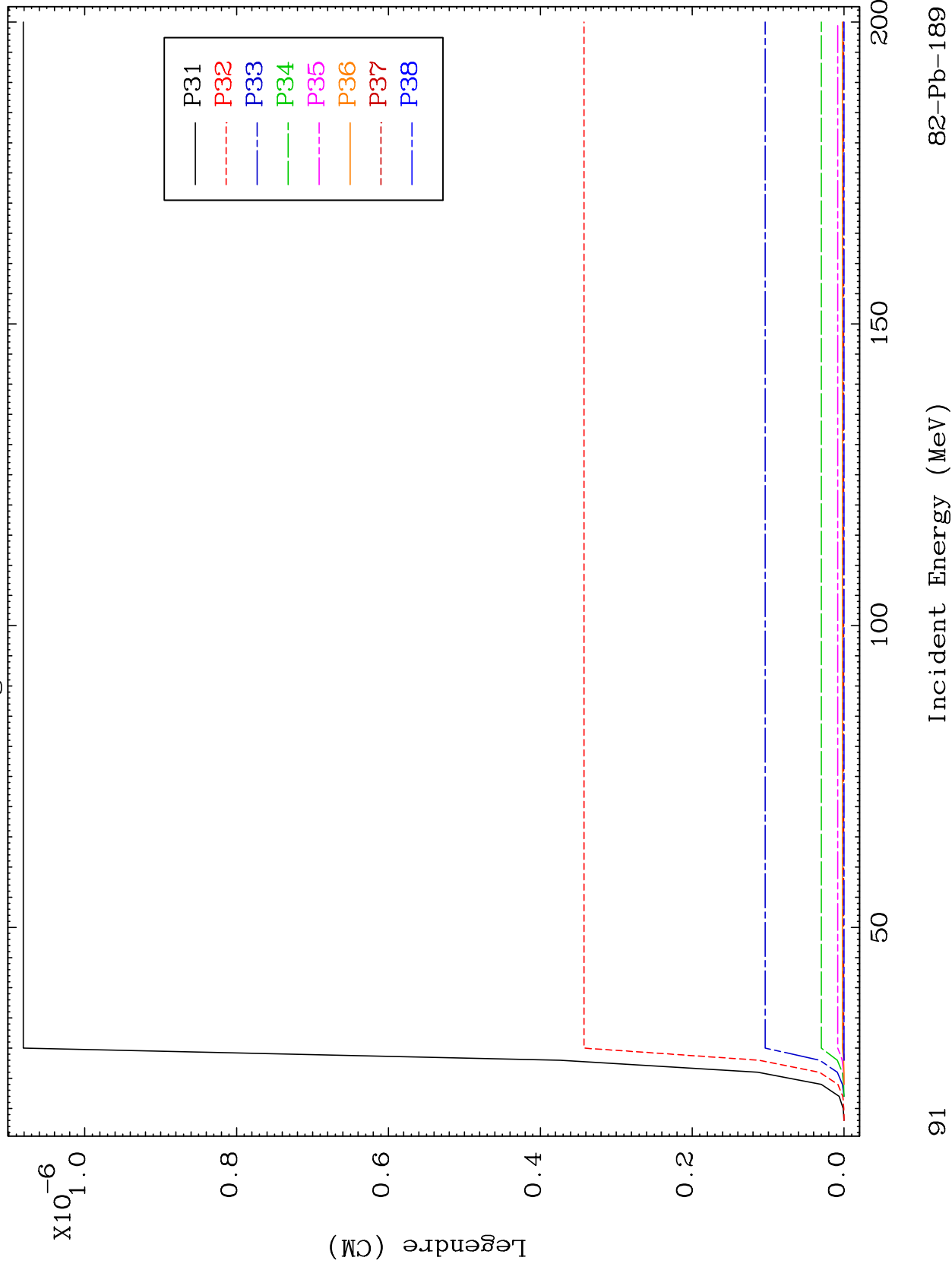
82-Pb-189



MAT 8180

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

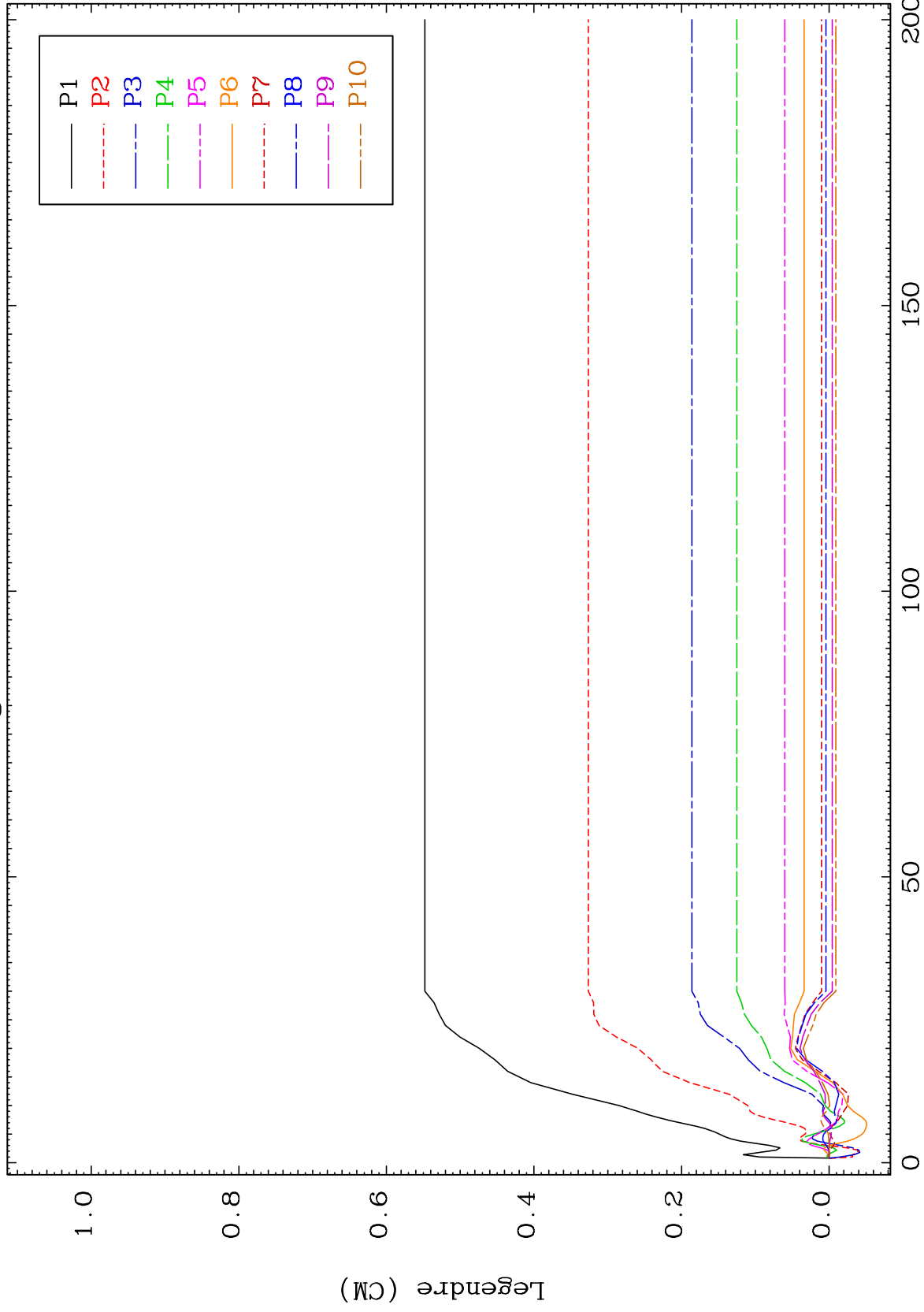
82-Pb-189



MAT 8180

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

82-Pb-189



92

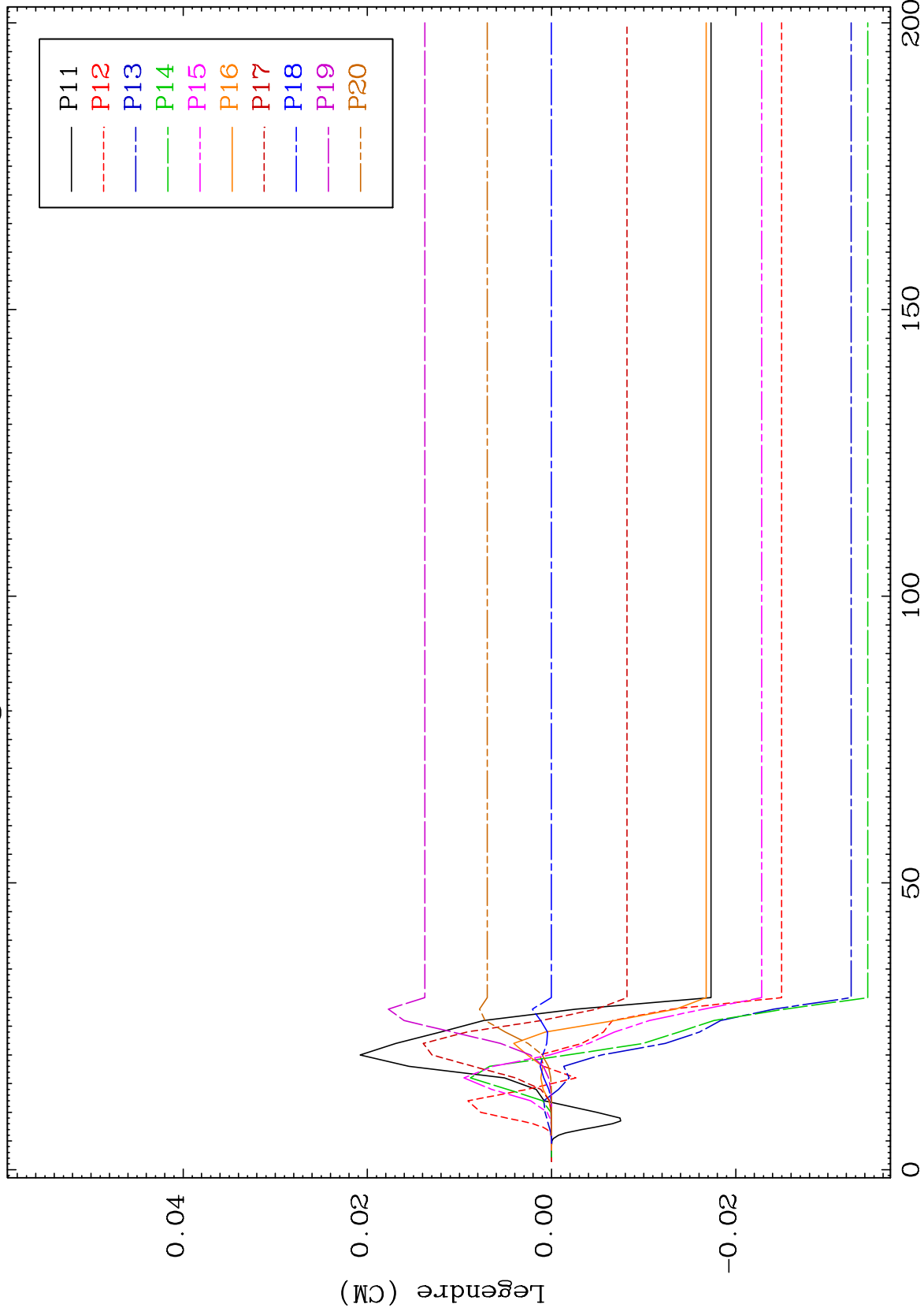
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

82-Pb-189



93

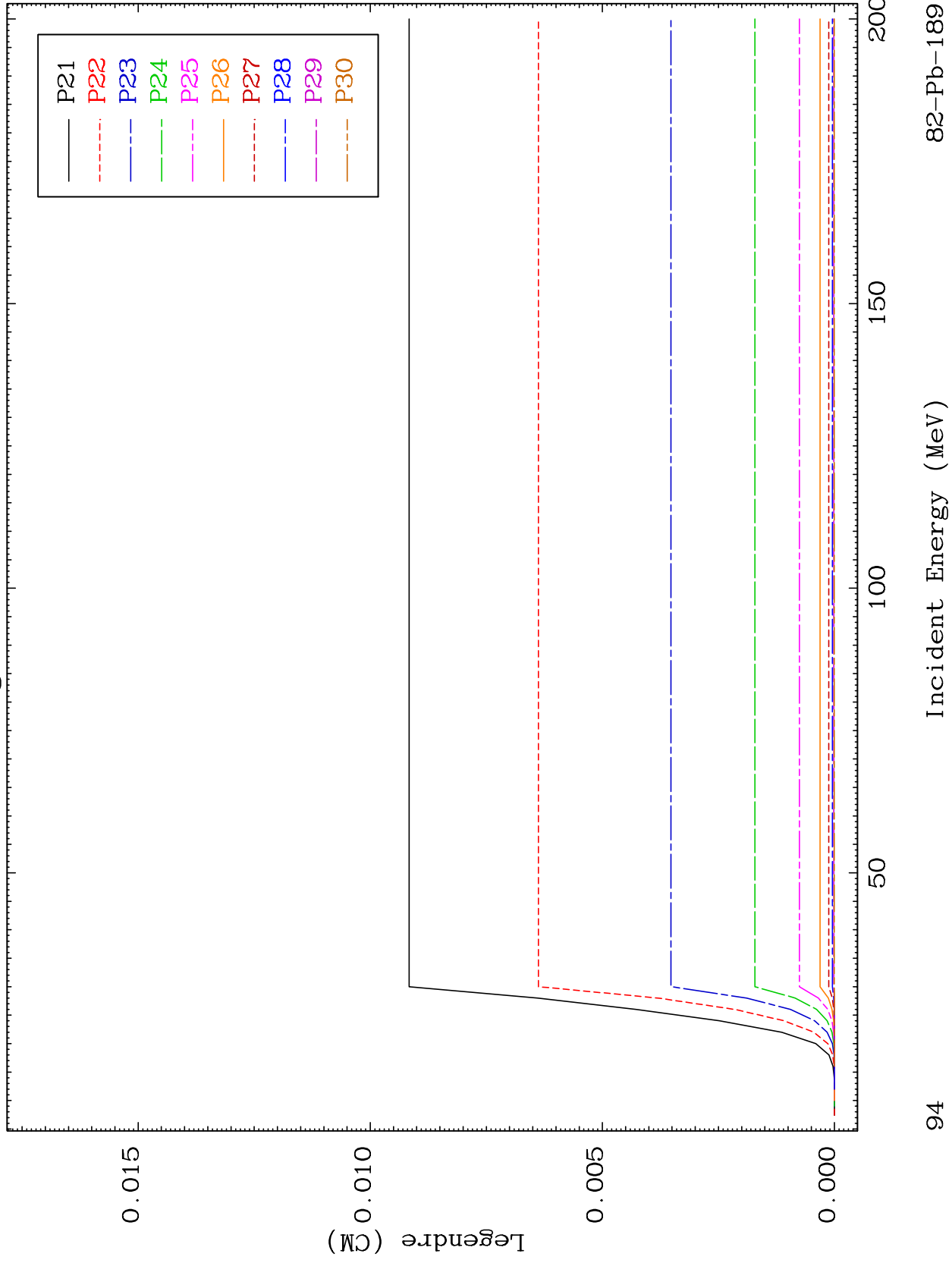
Incident Energy (MeV)

82-Pb-189

MAT 8180

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

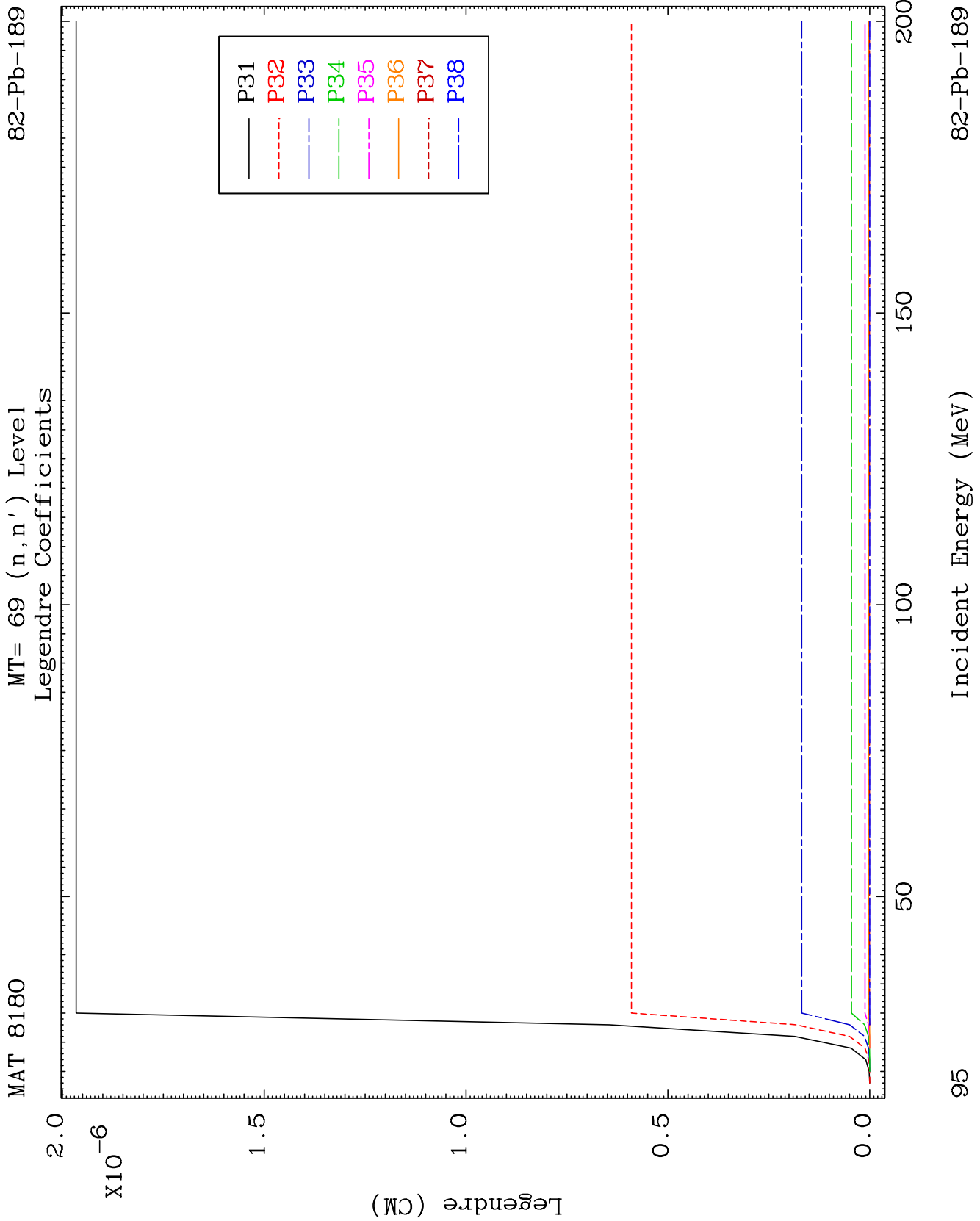
82-Pb-189



94

Incident Energy (MeV)

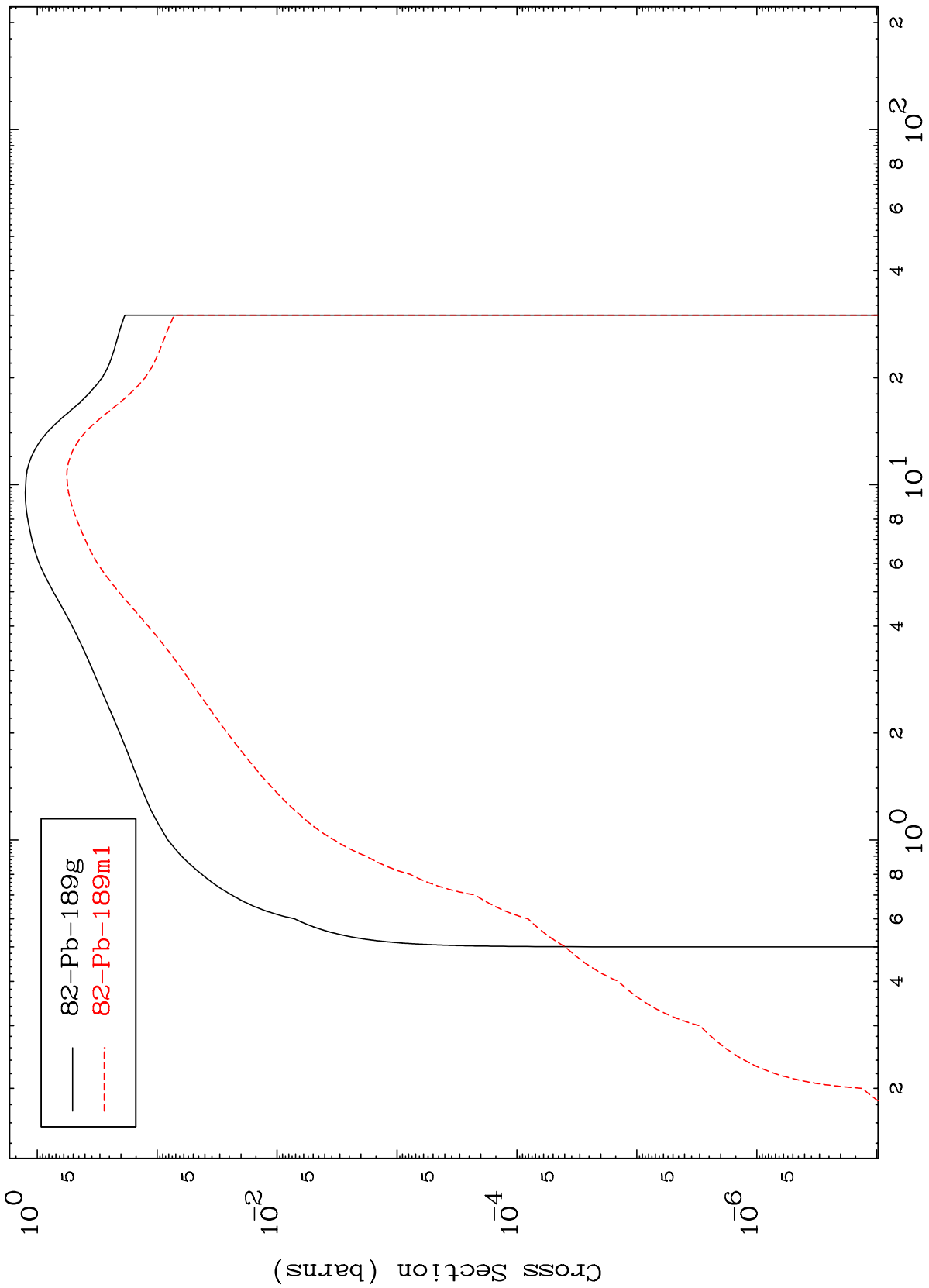
82-Pb-189



MAT 8180

82-Pb-189

Inelastic
Radionuclide Production Cross Section



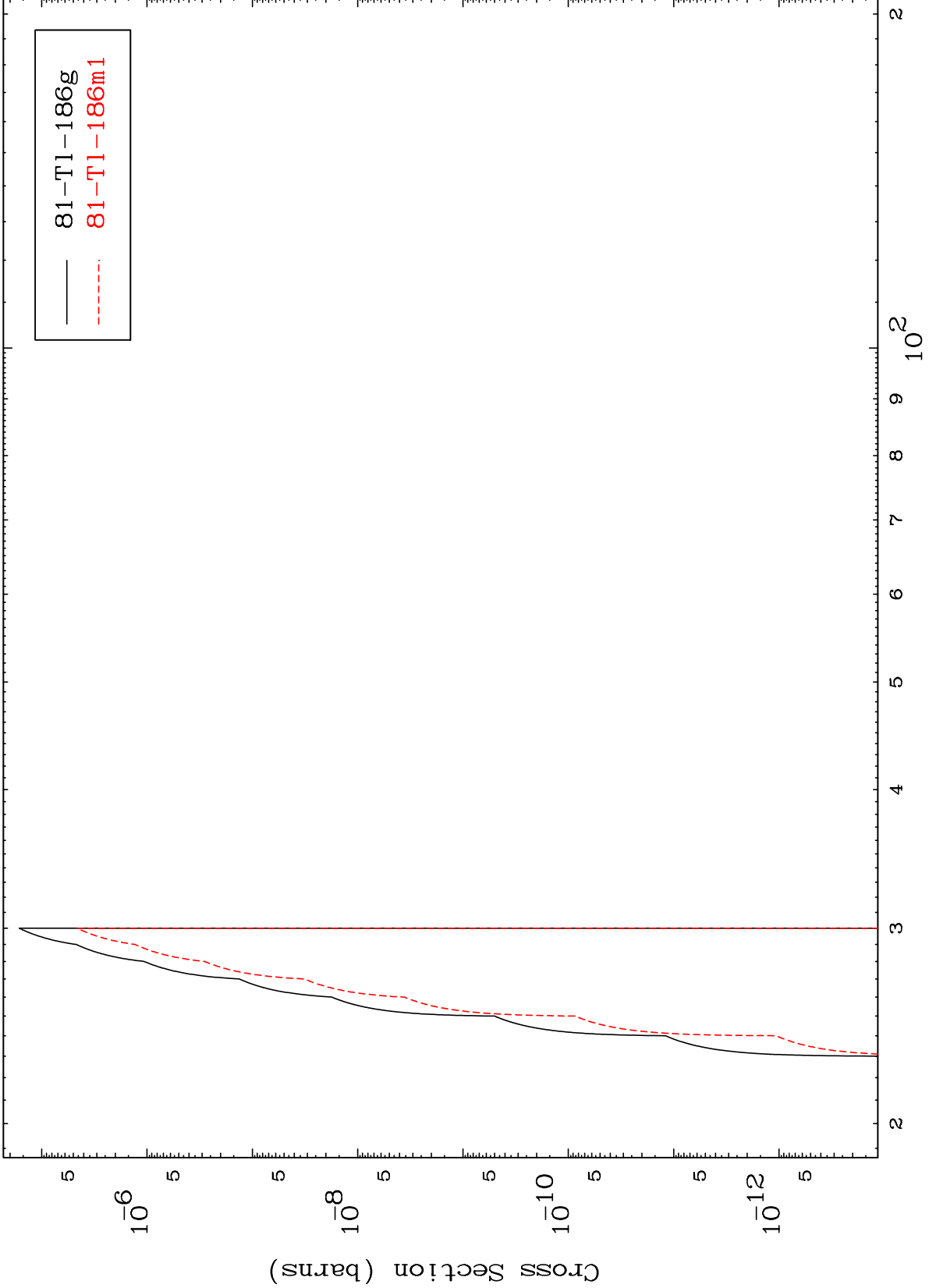
— 82-Pb-189g
- - - 82-Pb-189m1

MAT 8180

(n,2n) d

82-Pb-189

Radionuclide Production Cross Section



97

Incident Energy (MeV)

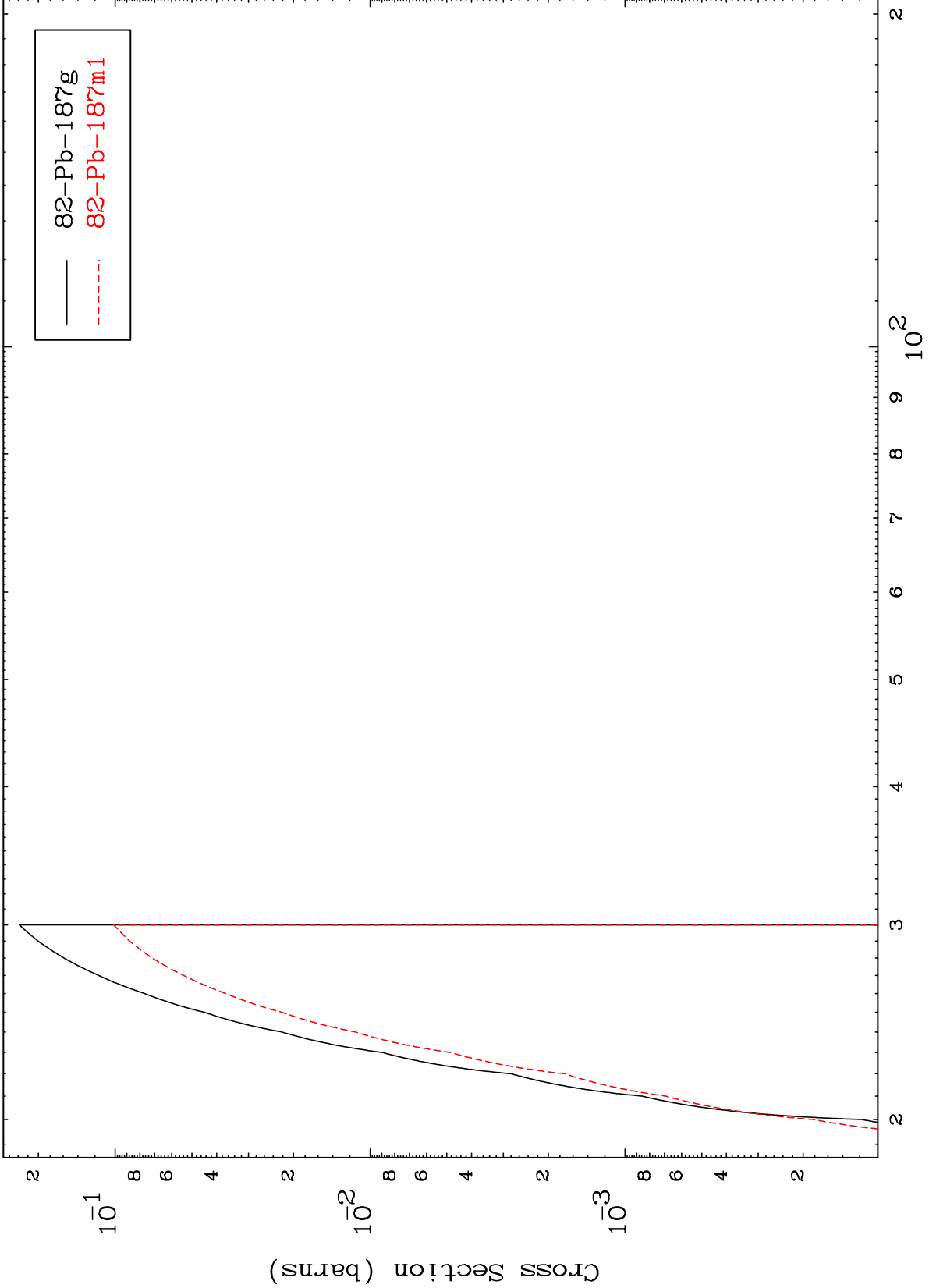
82-Pb-189

MAT 8180

(n,3n)

82-Pb-189

Radionuclide Production Cross Section



98

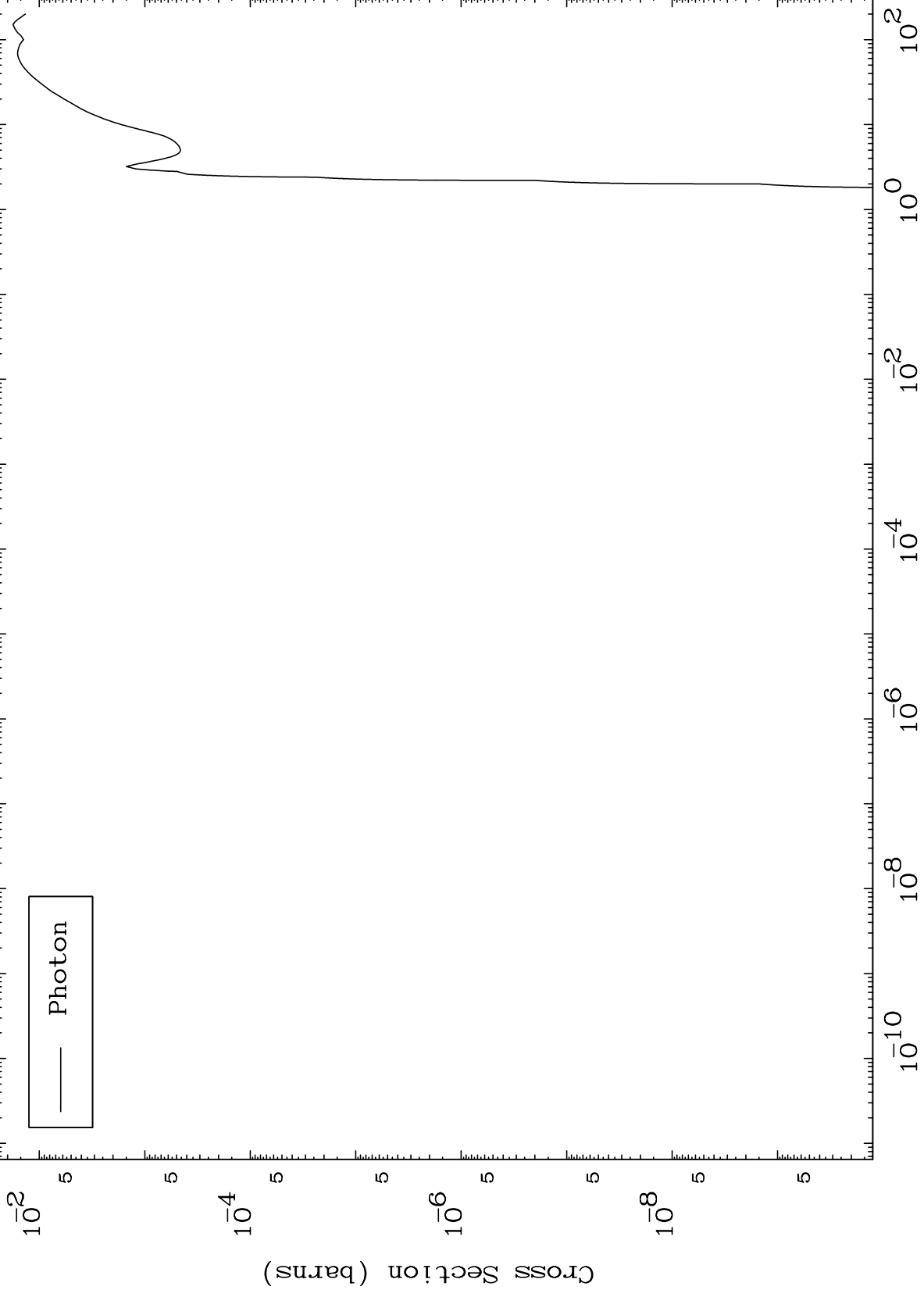
Incident Energy (MeV)

82-Pb-189

MAT 8180

Fission
Radionuclide Production Cross Section

82-Pb-189



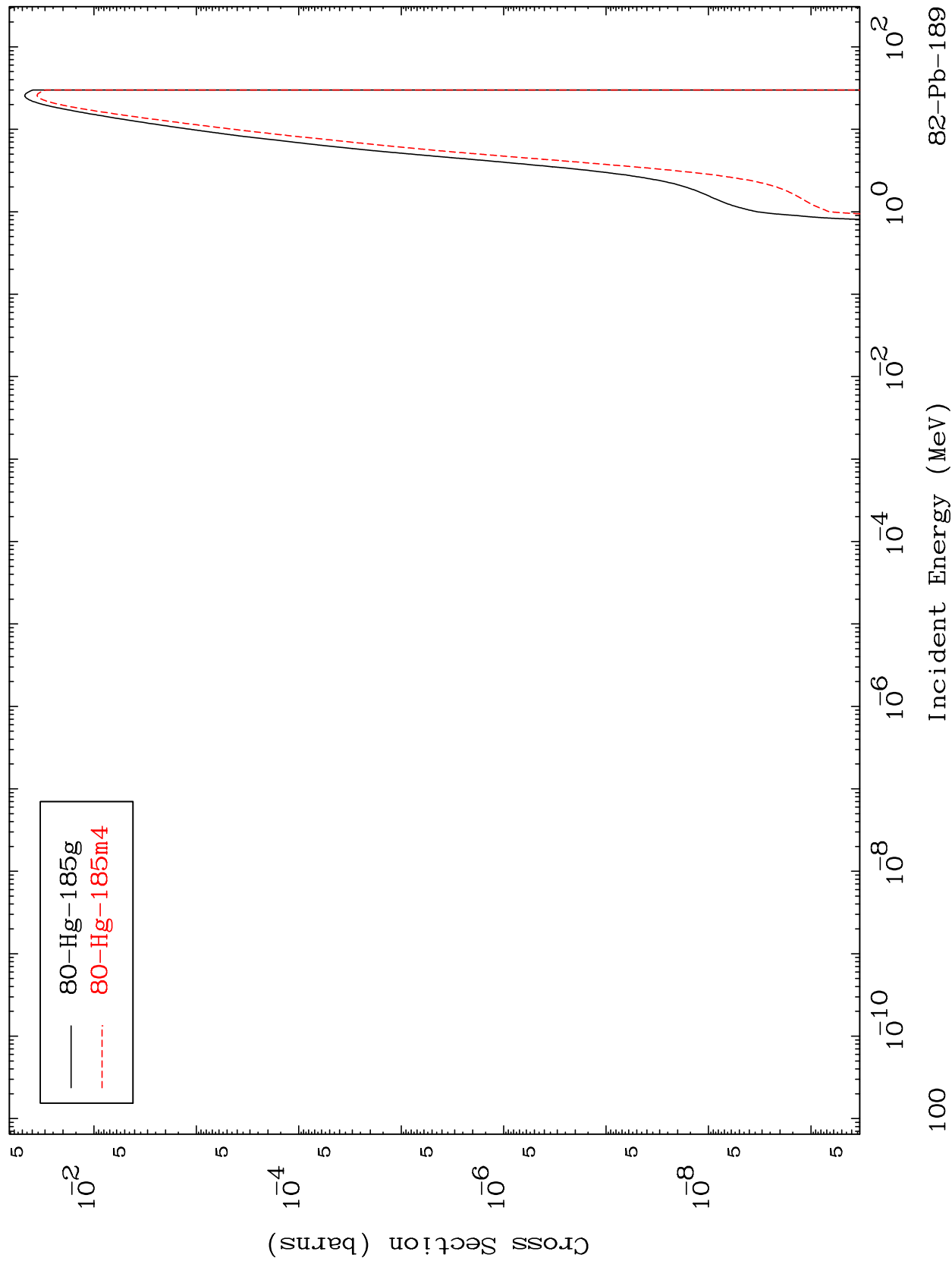
82-Pb-189

MAT 8180

(n, n') α

82-Pb-189

Radionuclide Production Cross Section



100

Incident Energy (MeV)

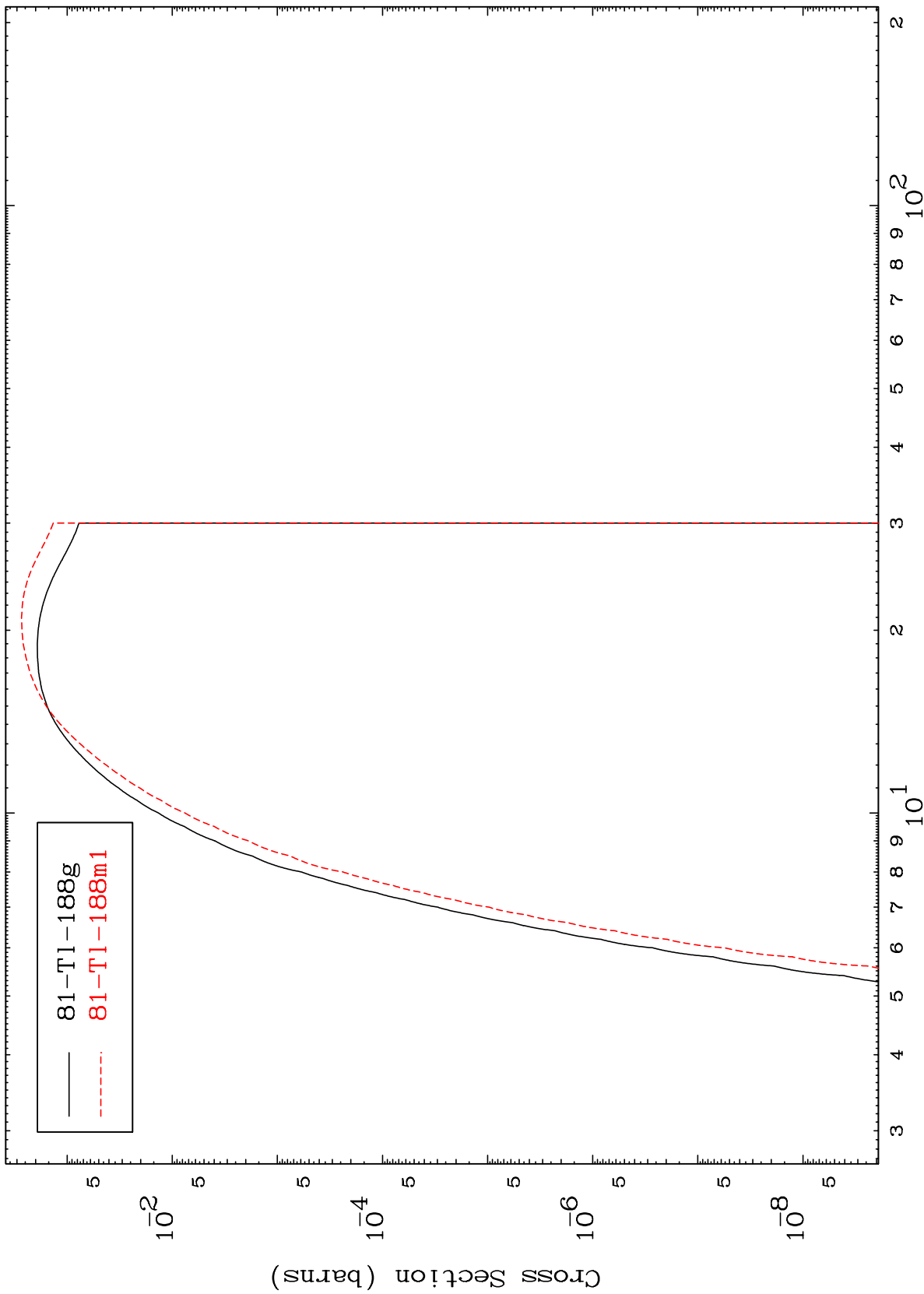
82-Pb-189

MAT 8180

(n,n') p

82-Pb-189

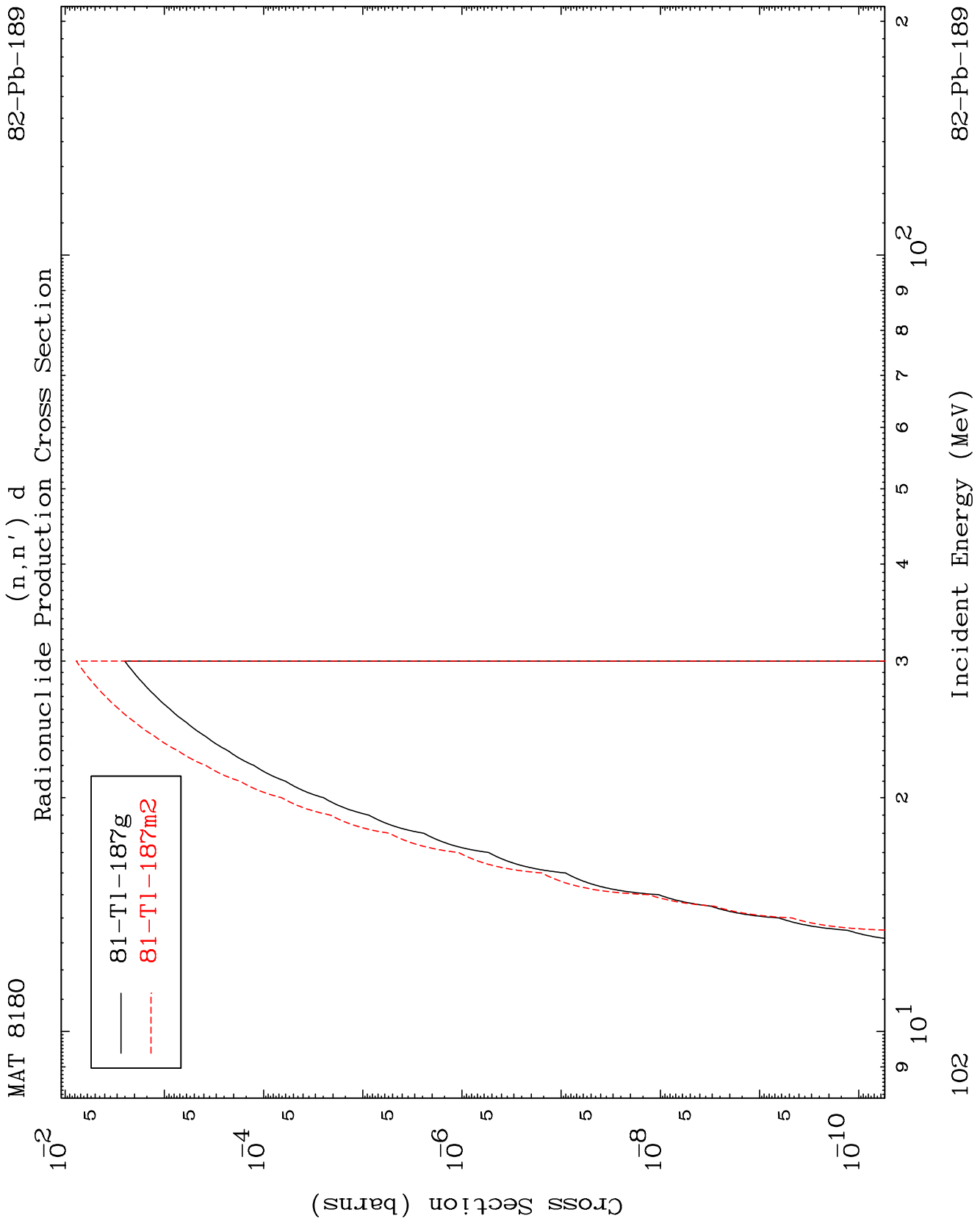
Radionuclide Production Cross Section



101

Incident Energy (MeV)

82-Pb-189

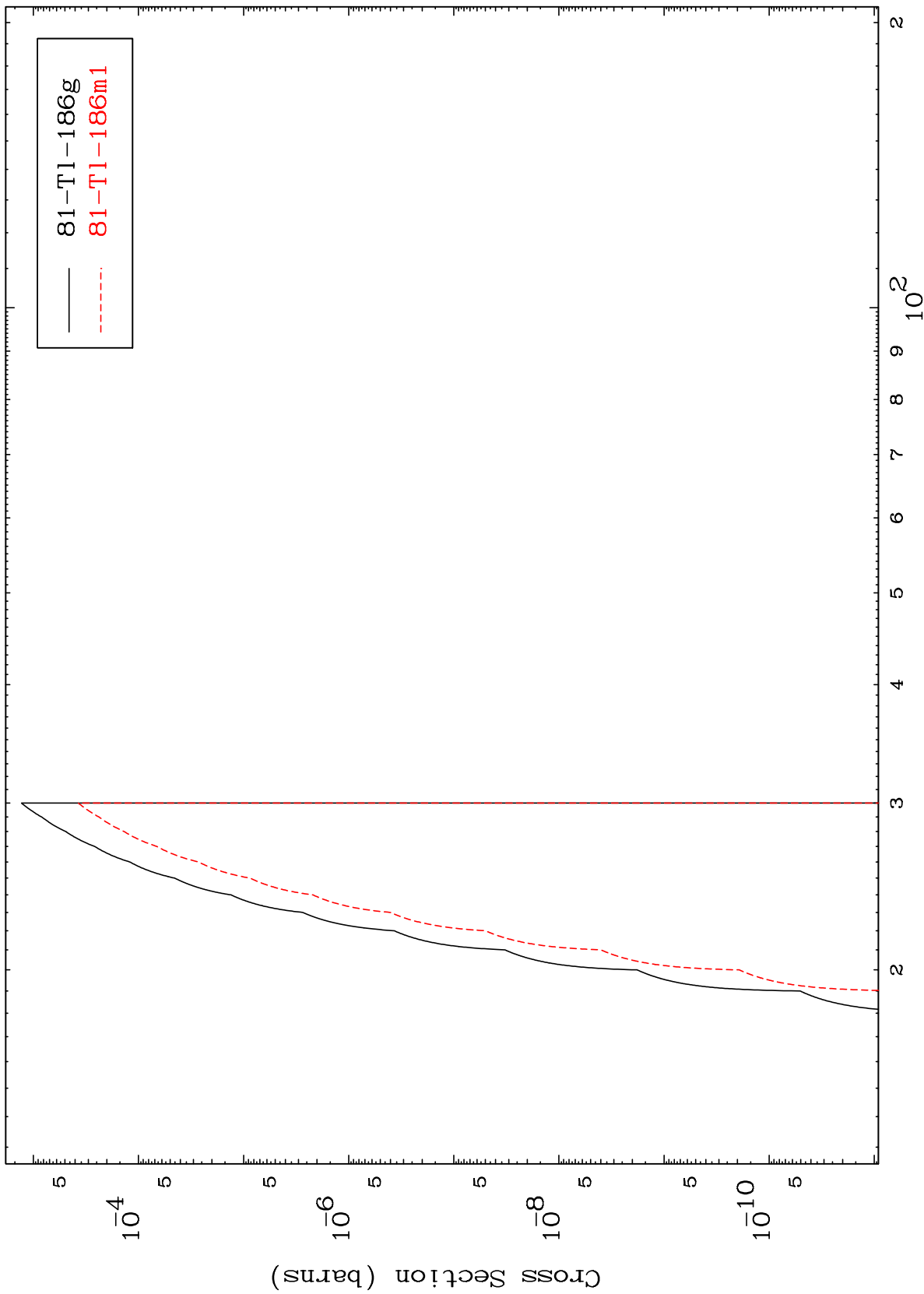


MAT 8180

(n,n') t

82-Pb-189

Radionuclide Production Cross Section



103

Incident Energy (MeV)

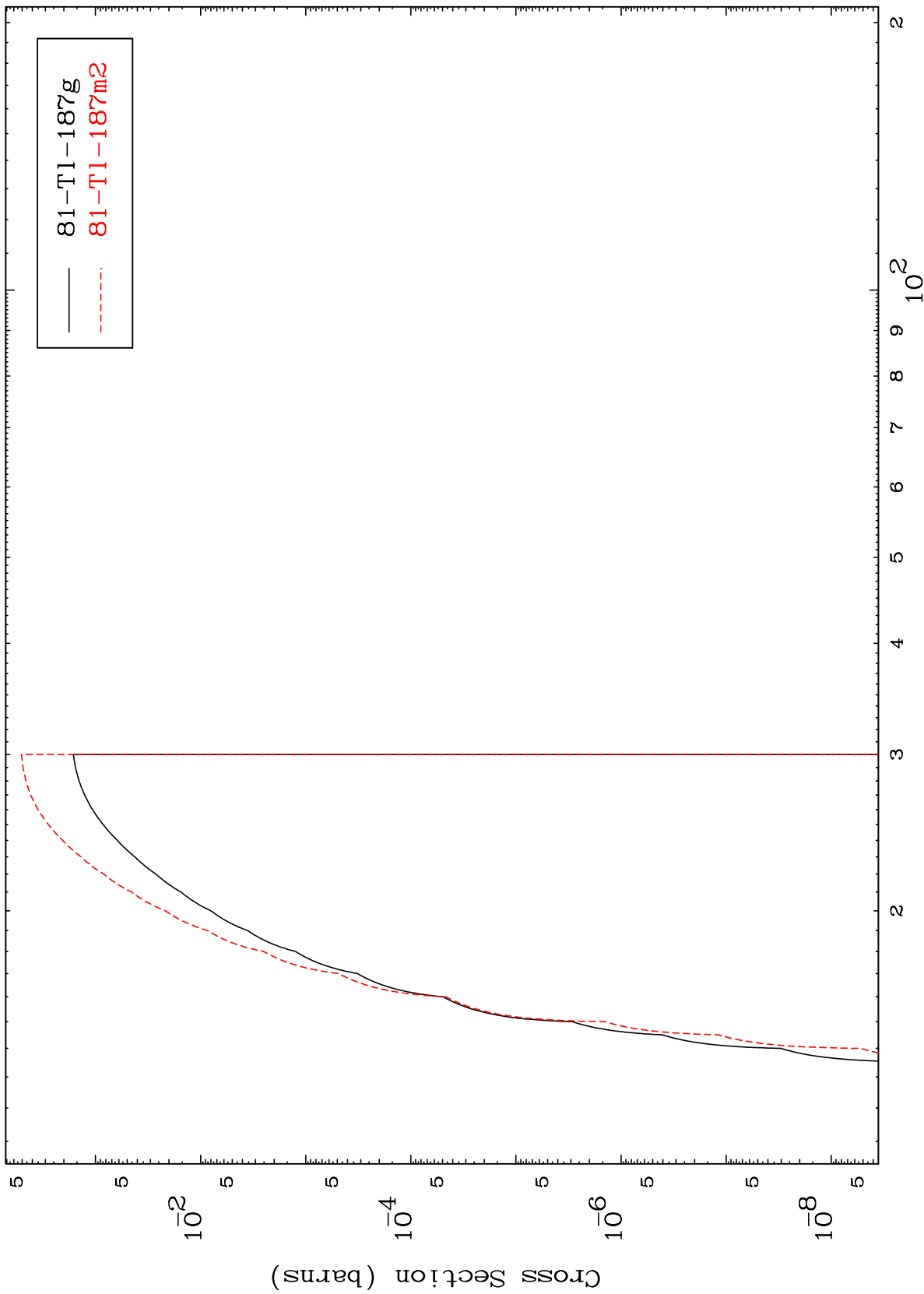
82-Pb-189

MAT 8180

(n,2n) p

82-Pb-189

Radionuclide Production Cross Section



104

Incident Energy (MeV)

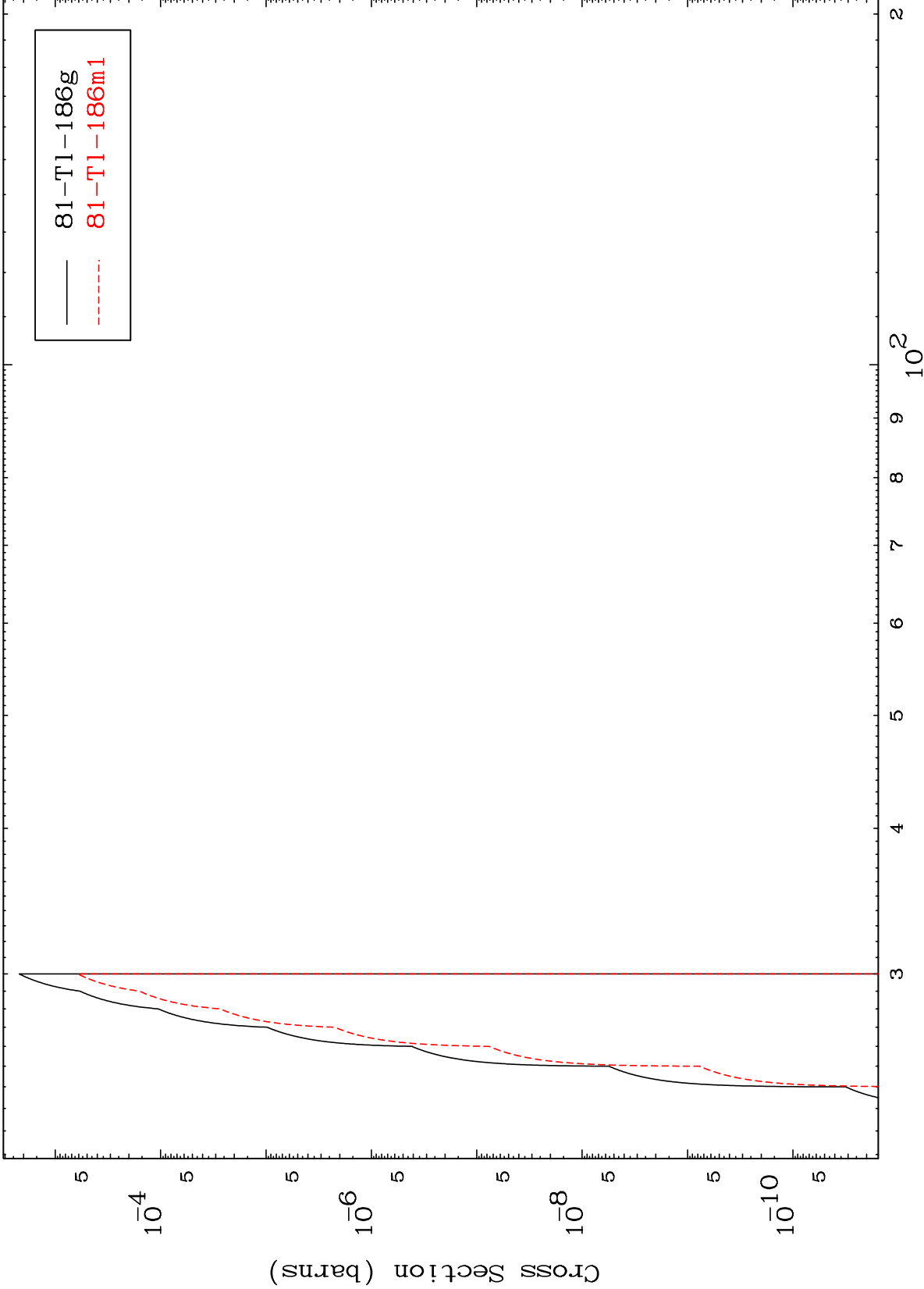
82-Pb-189

MAT 8180

(n,3n) p

82-Pb-189

Radionuclide Production Cross Section



81-Tl-186g
81-Tl-186m1

105

Incident Energy (MeV)

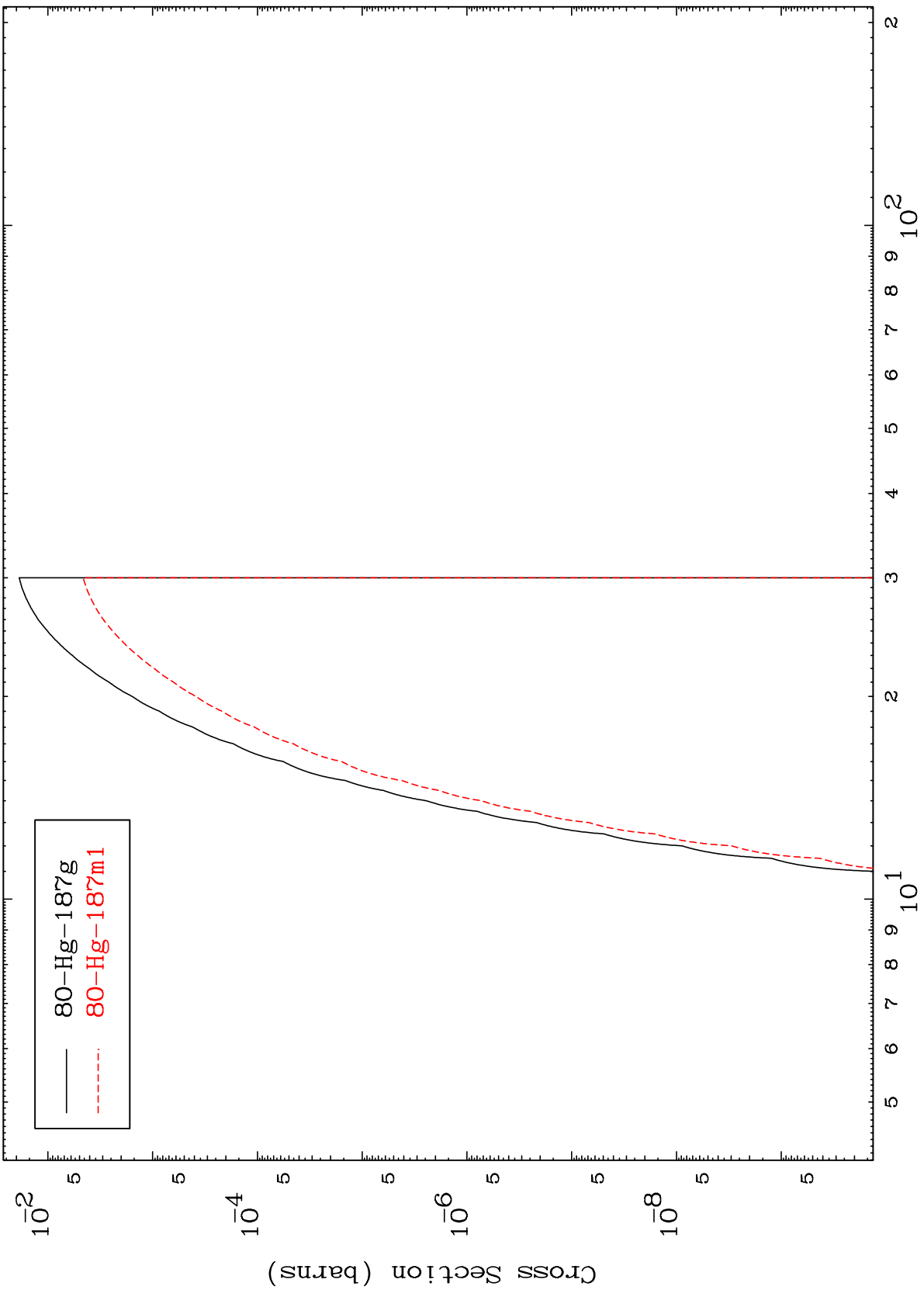
82-Pb-189

MAT 8180

(n,2n) p

82-Pb-189

Radionuclide Production Cross Section



— 80-Hg-187g
- - - 80-Hg-187m1

106

Incident Energy (MeV)

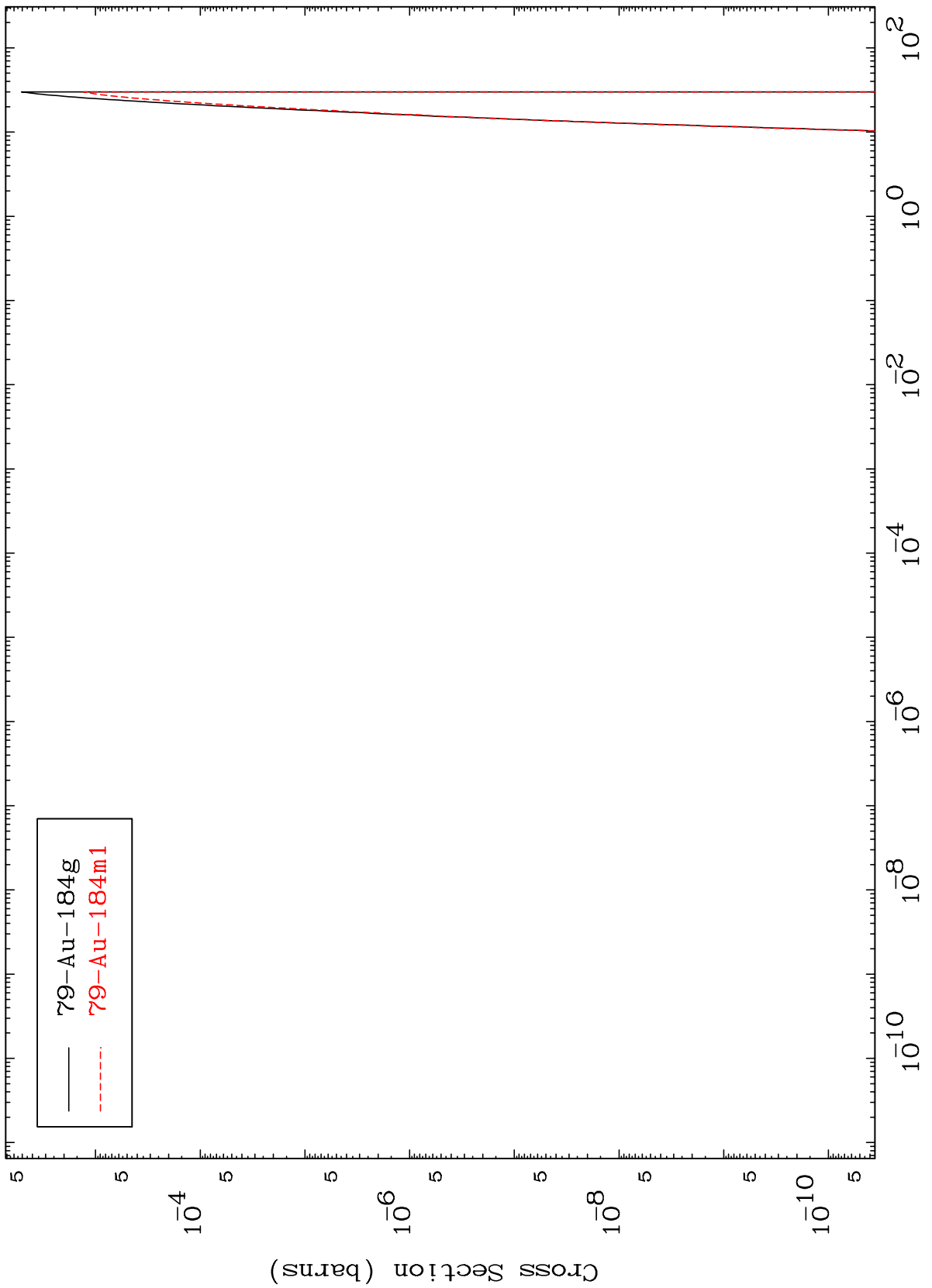
82-Pb-189

MAT 8180

(n,n') p α

82-Pb-189

Radionuclide Production Cross Section



79-Au-184g
79-Au-184m1

107

Incident Energy (MeV)

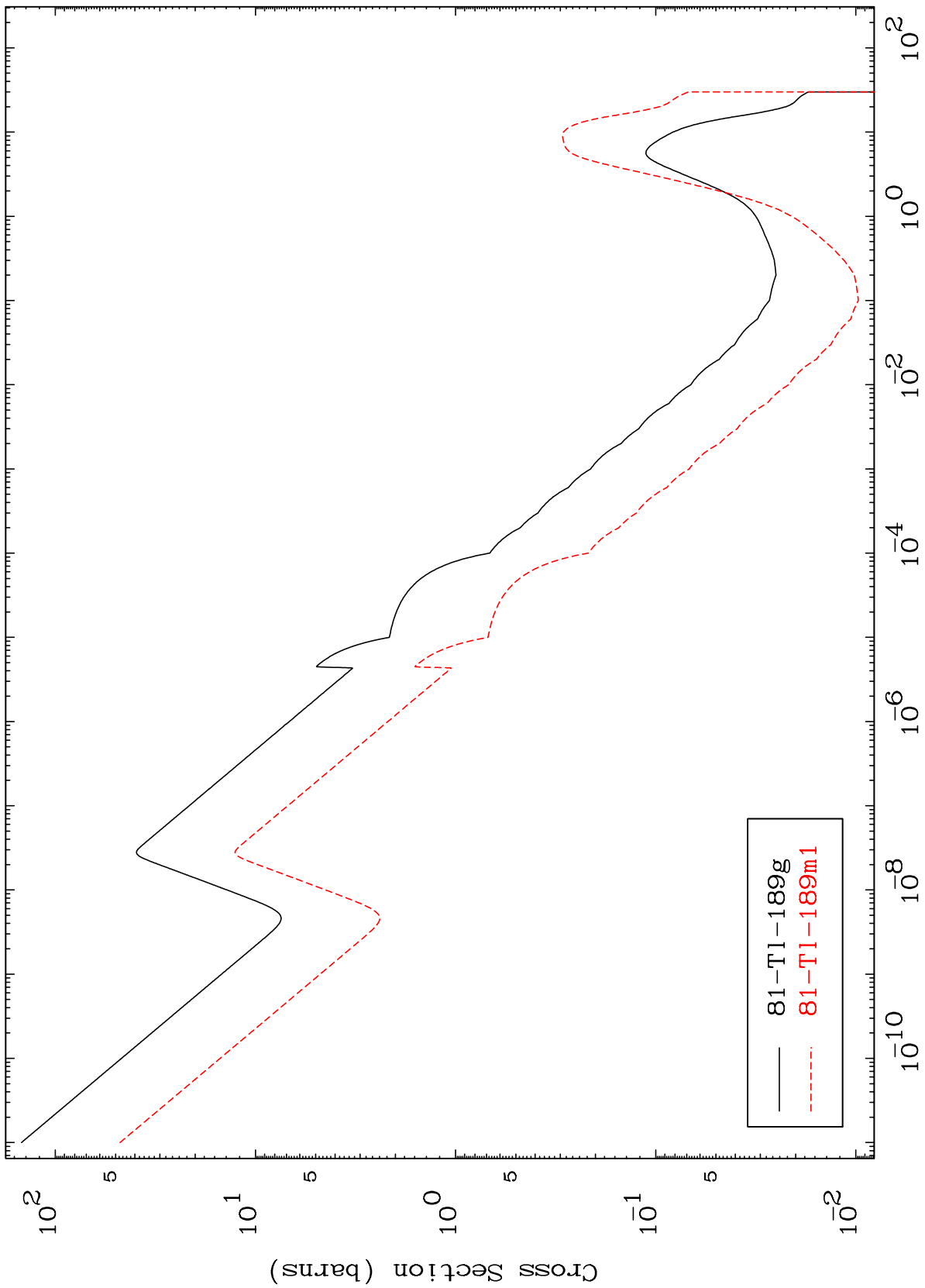
82-Pb-189

MAT 8180

82-Pb-189

Radionuclide Production Cross Section

(n,p)



108

82-Pb-189

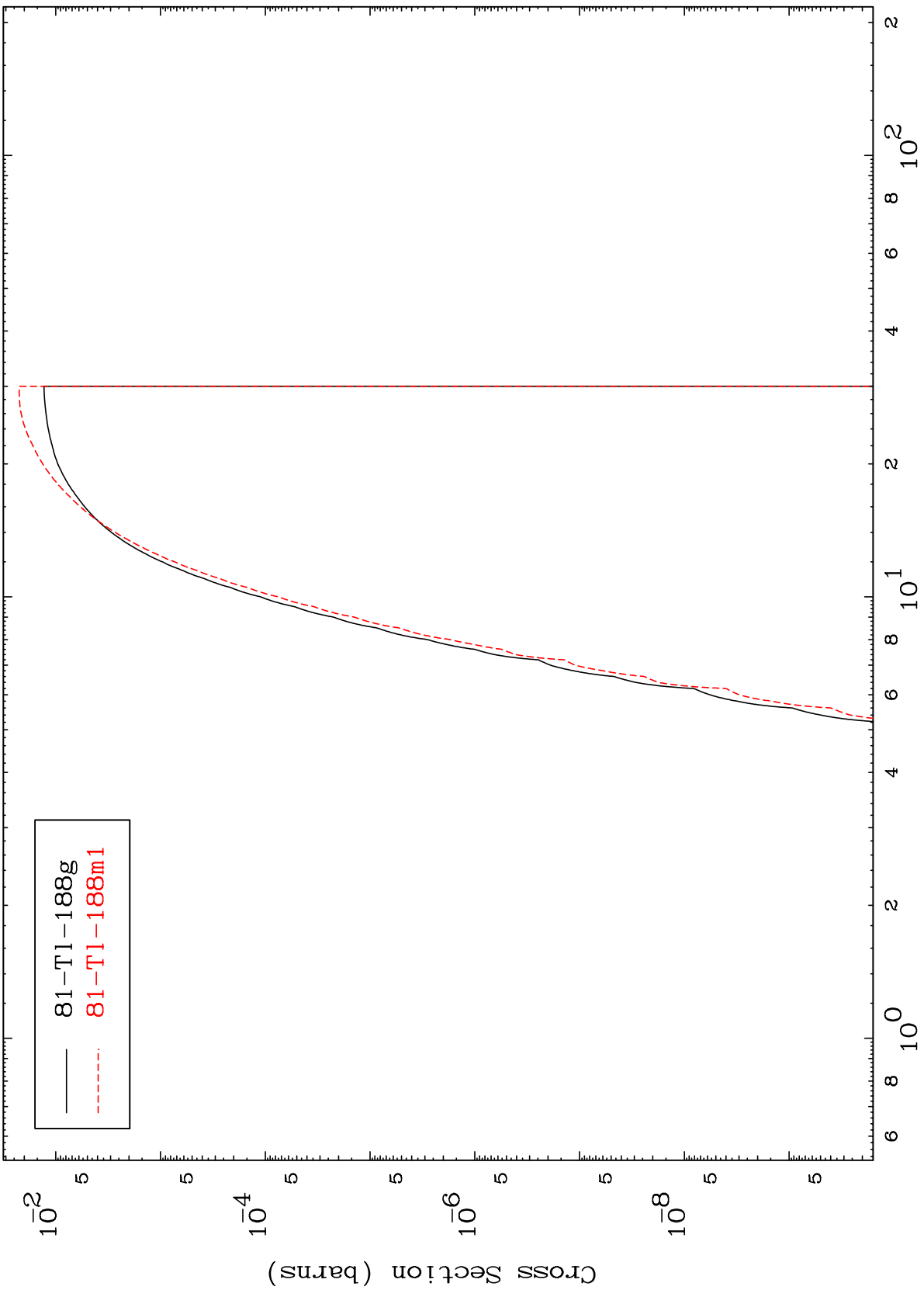
Incident Energy (MeV)

MAT 8180

(n,d)

82-Pb-189

Radionuclide Production Cross Section



109

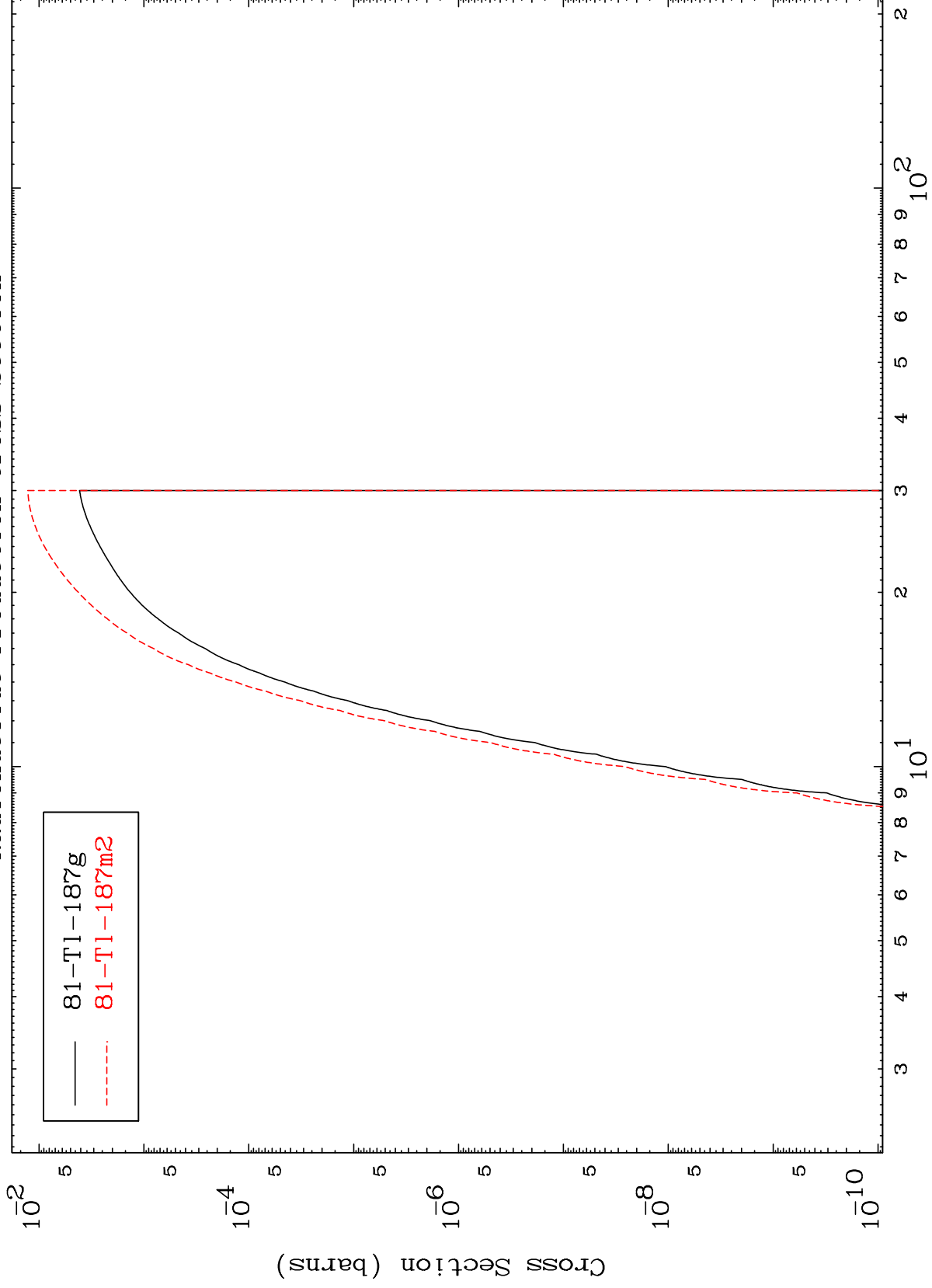
Incident Energy (MeV)

82-Pb-189

MAT 8180

82-Pb-189

(n, t)
Radionuclide Production Cross Section



— 81-Tl-187g
- - - 81-Tl-187m2

82-Pb-189

Incident Energy (MeV)

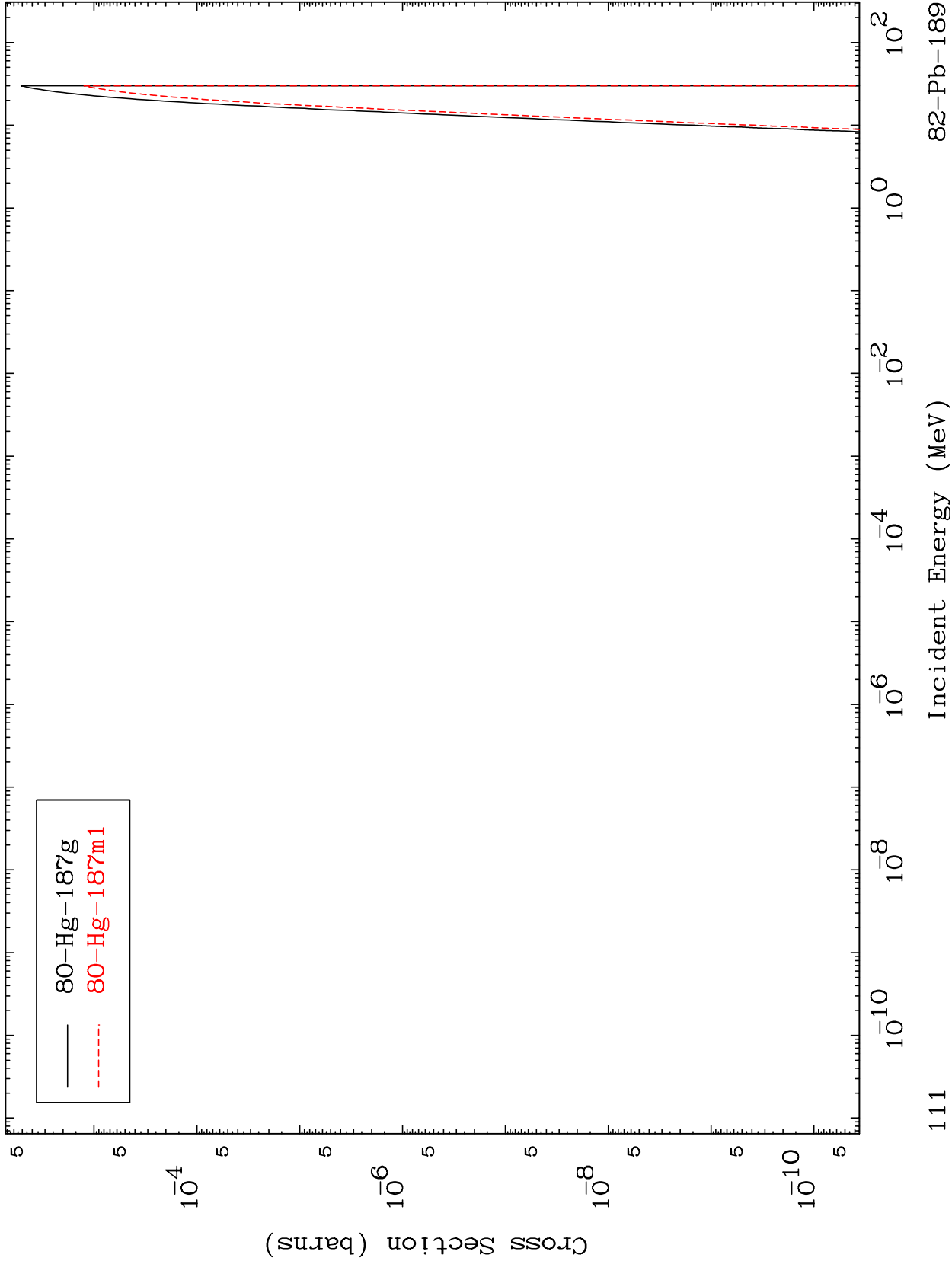
110

MAT 8180

(n,He-3)

82-Pb-189

Radionuclide Production Cross Section



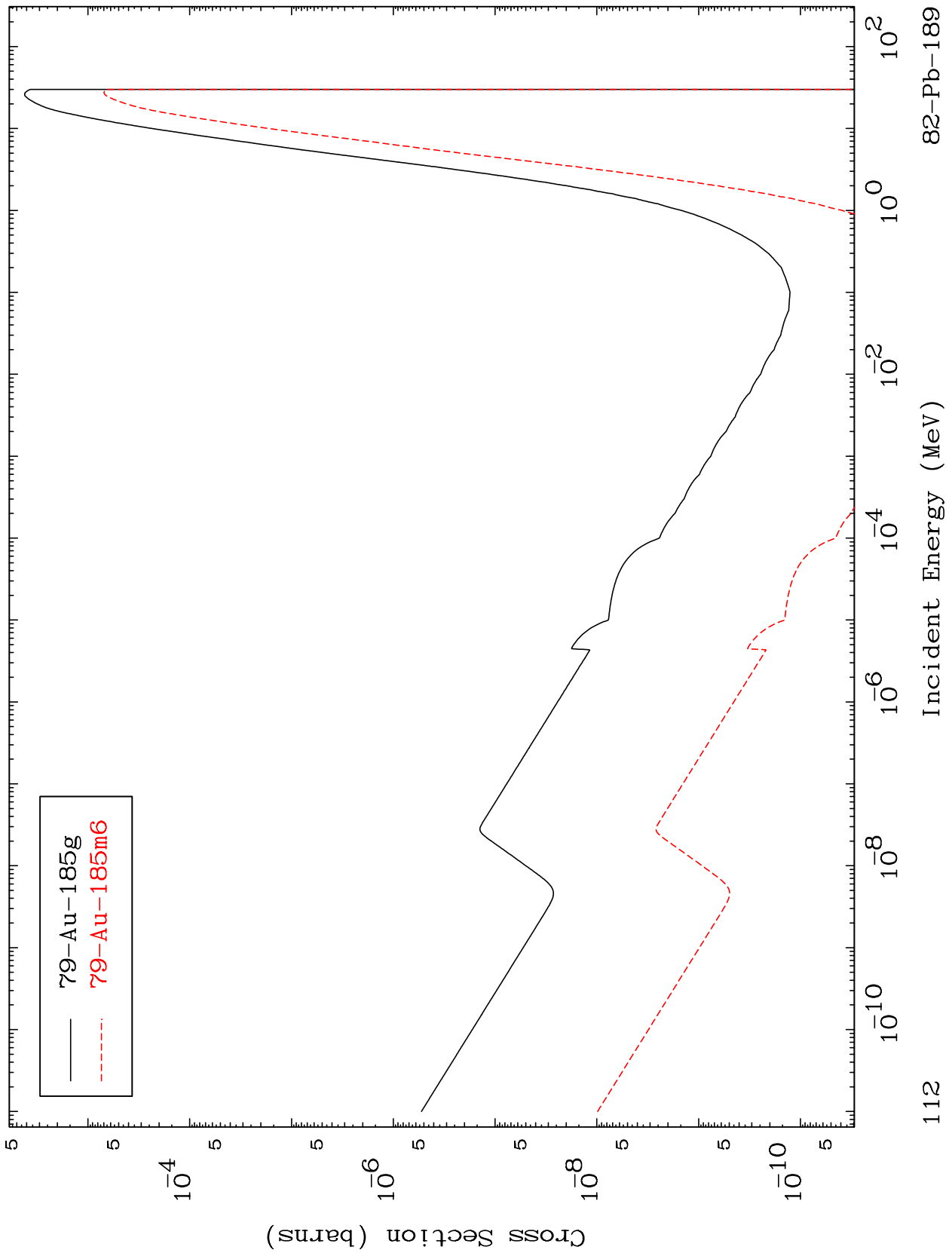
80-Hg-187g
80-Hg-187m1

MAT 8180

(n,p) α

82-Pb-189

Radionuclide Production Cross Section

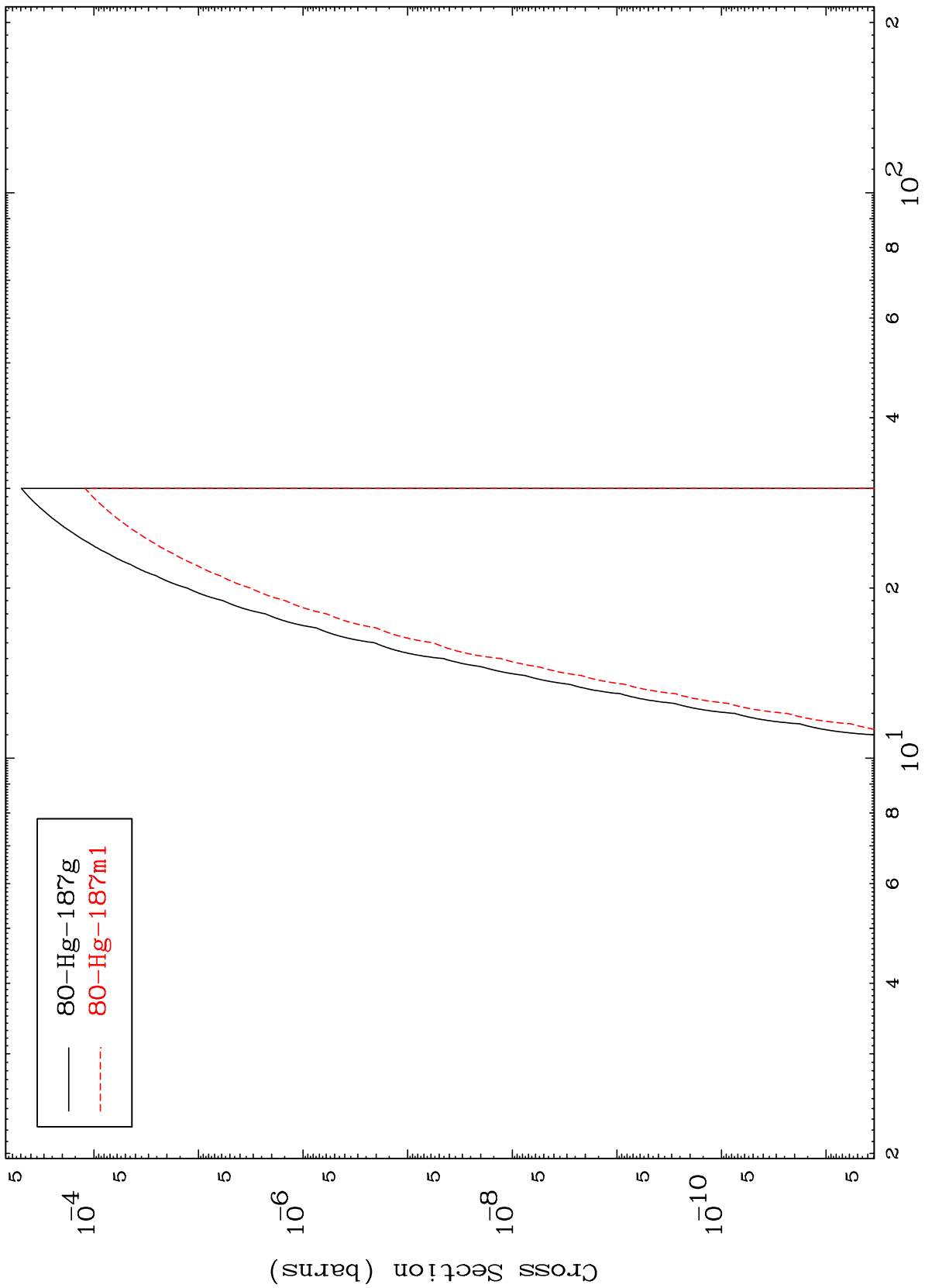


MAT 8180

(n,p) d

82-Pb-189

Radionuclide Production Cross Section



113

Incident Energy (MeV)

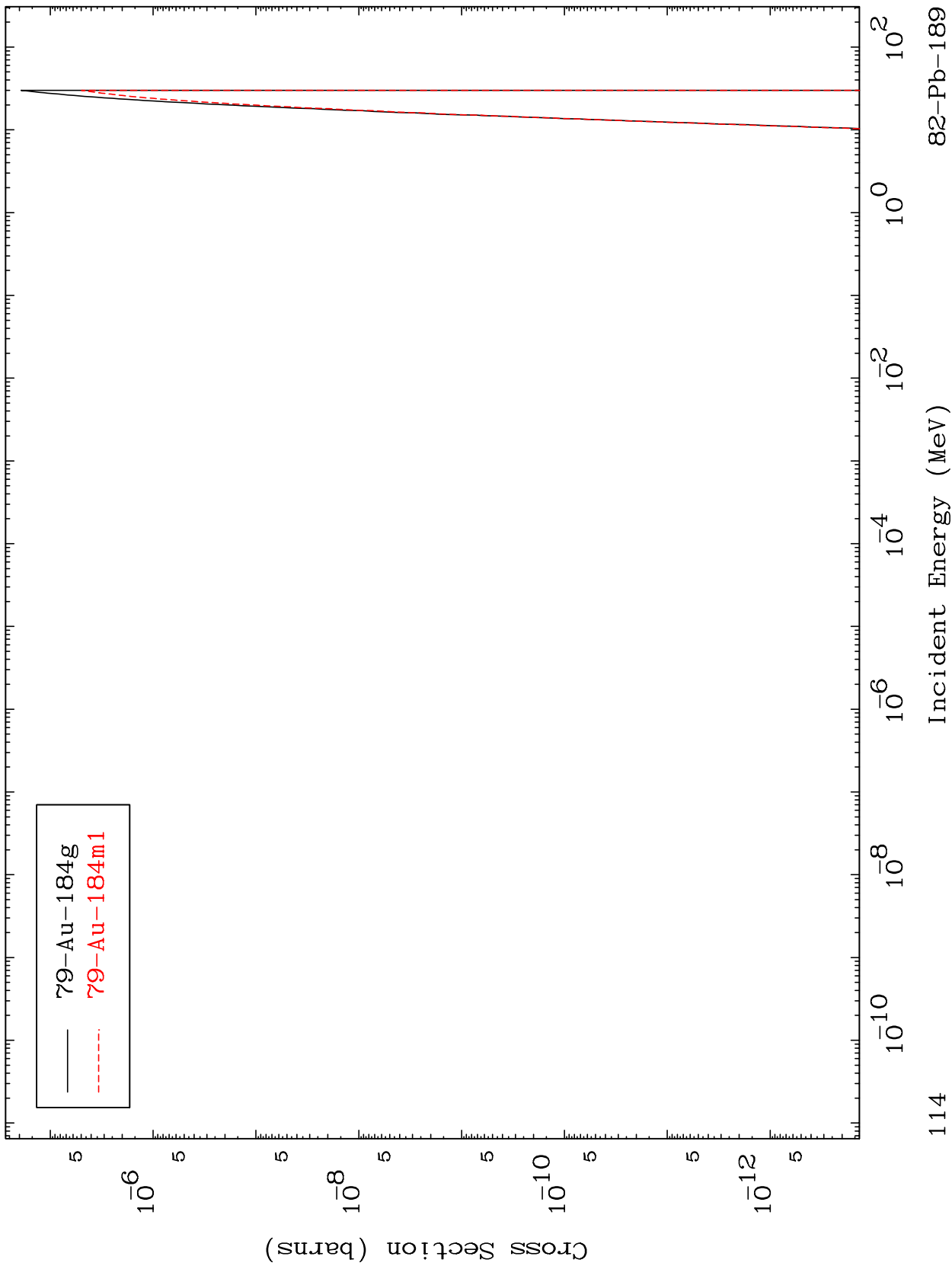
82-Pb-189

MAT 8180

(n,d) α

82-Pb-189

Radionuclide Production Cross Section



79-Au-184g
79-Au-184m1