

Program EVALPLOT
(Version 2015-2)

by

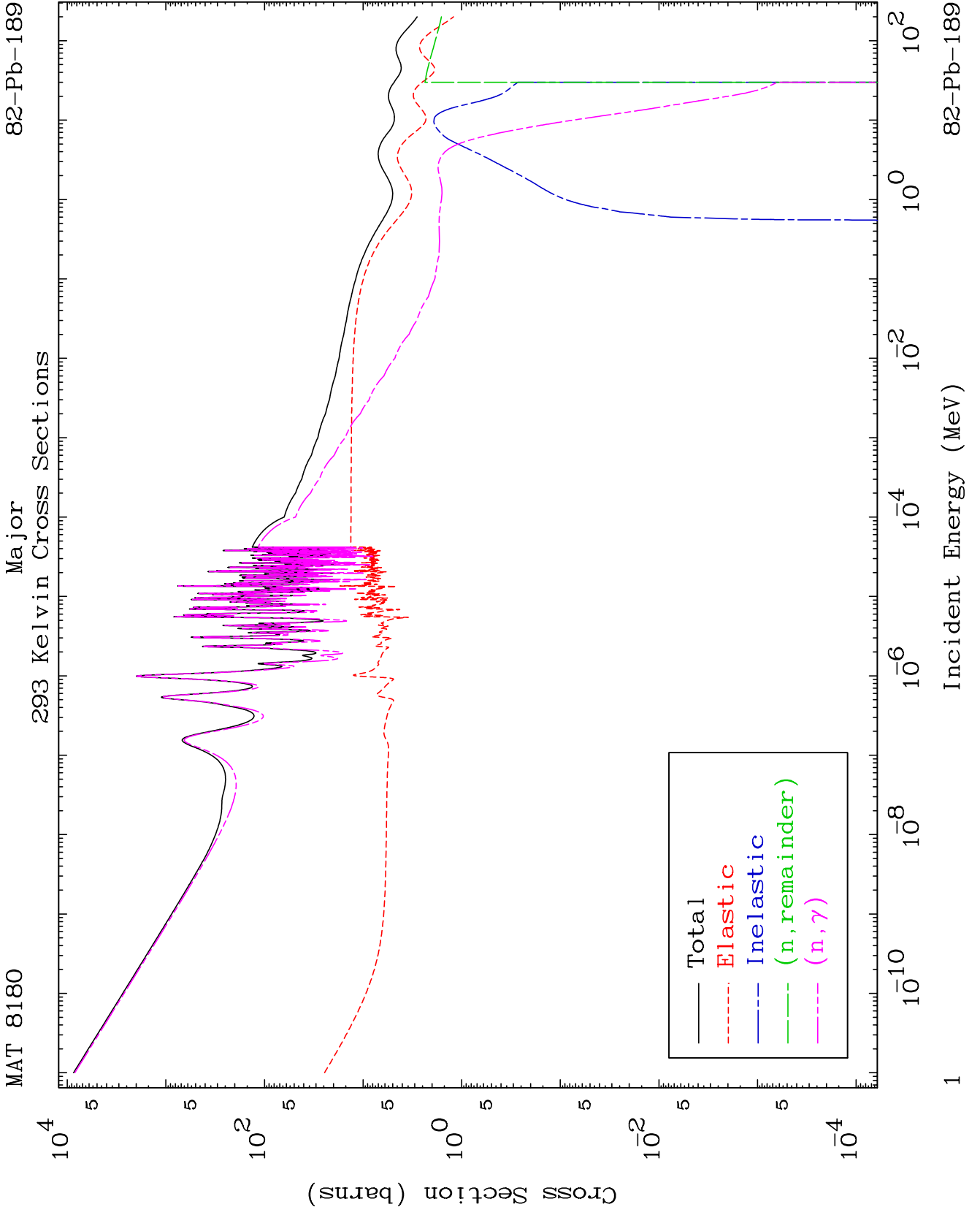
Dermott E. Cullen
(Present Contact Information)

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Web:home.comcast.net/~redcullen1

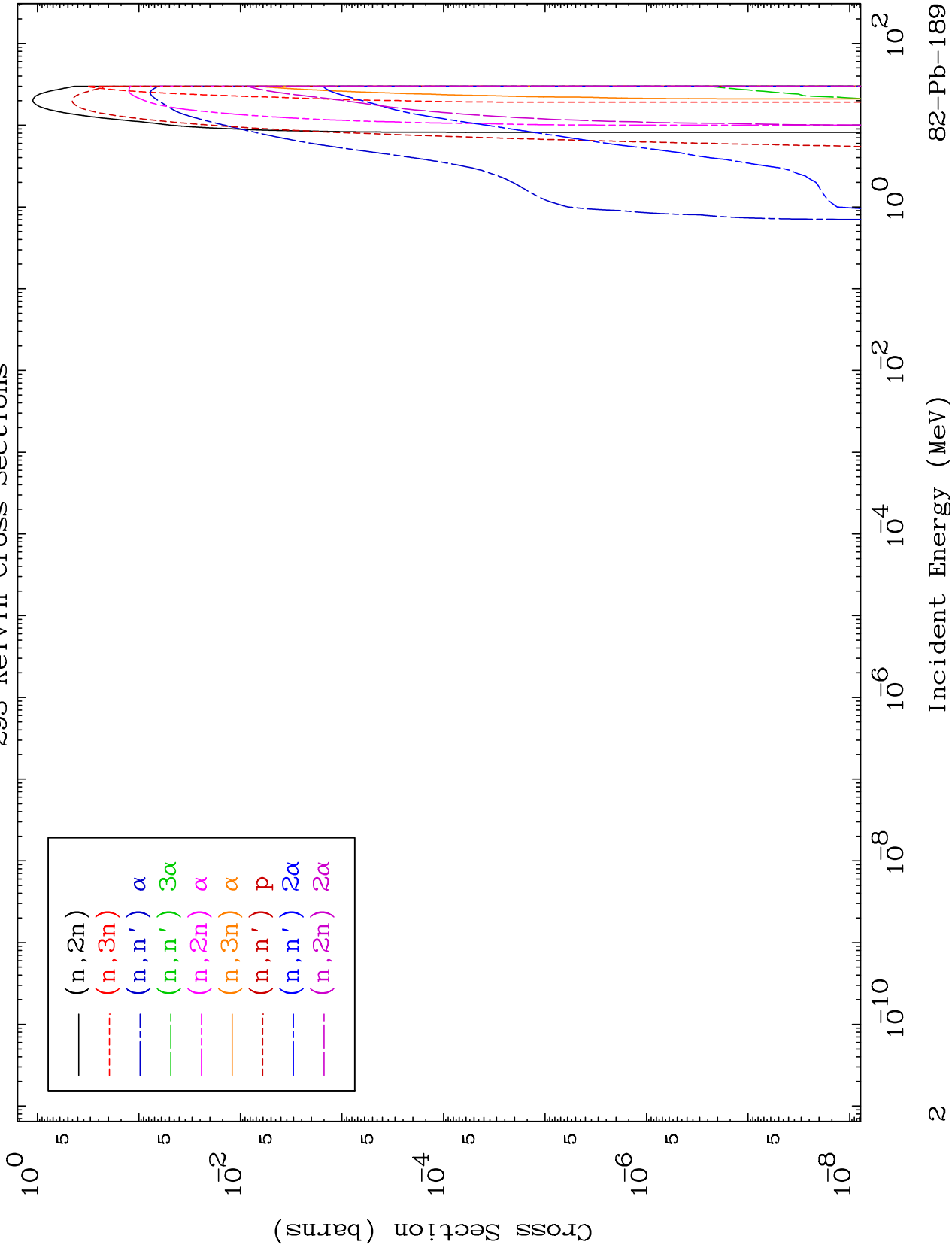
Press Mouse Button to Start



MAT 8180

Neutron Production
293 Kelvin Cross Sections

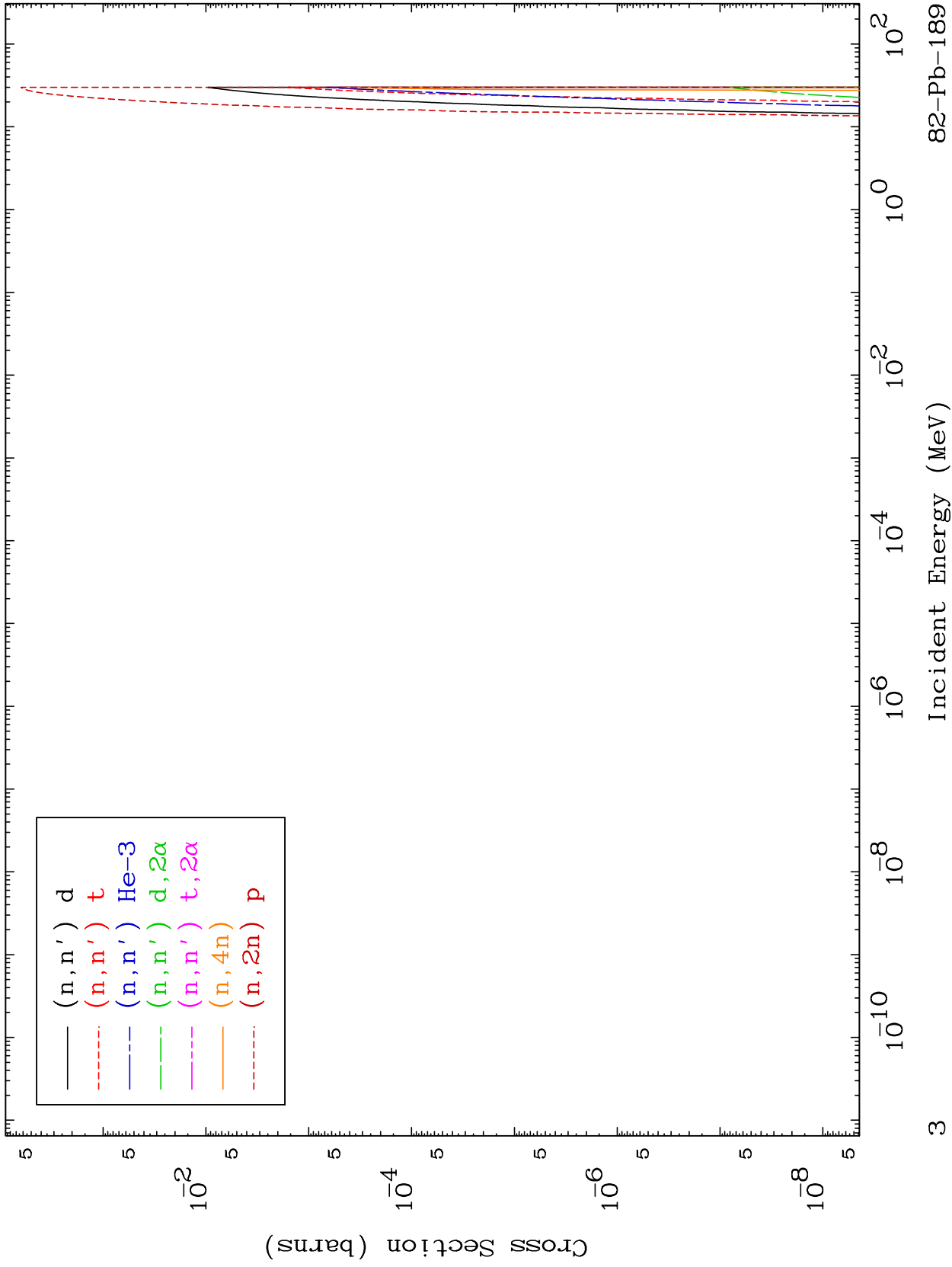
82-Pb-189



MAT 8180

Neutron Production
293 Kelvin Cross Sections

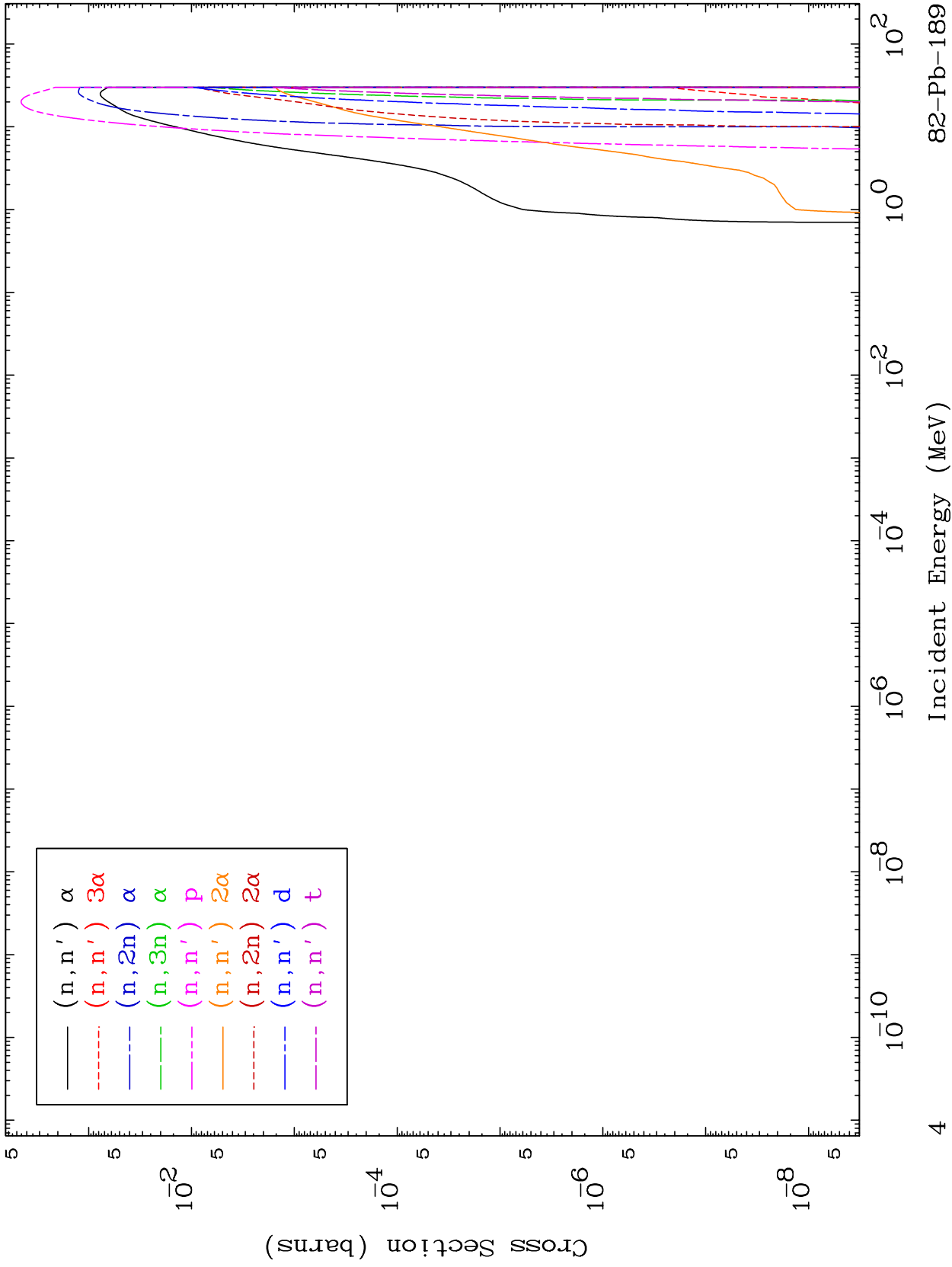
82-Pb-189



MAT 8180

Charged Particle
293 Kelvin Cross Sections

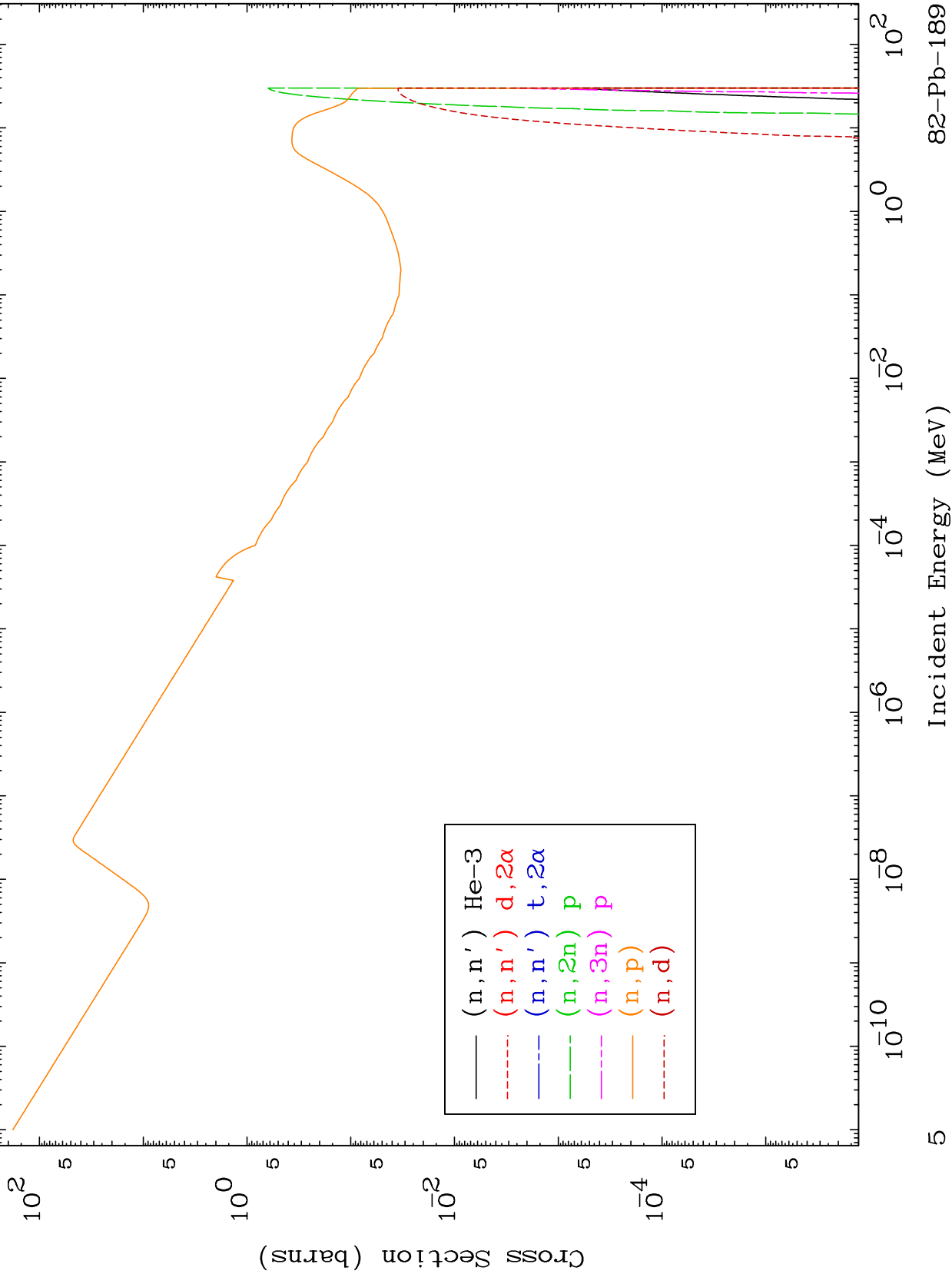
82-Pb-189



MAT 8180

Charged Particle
293 Kelvin Cross Sections

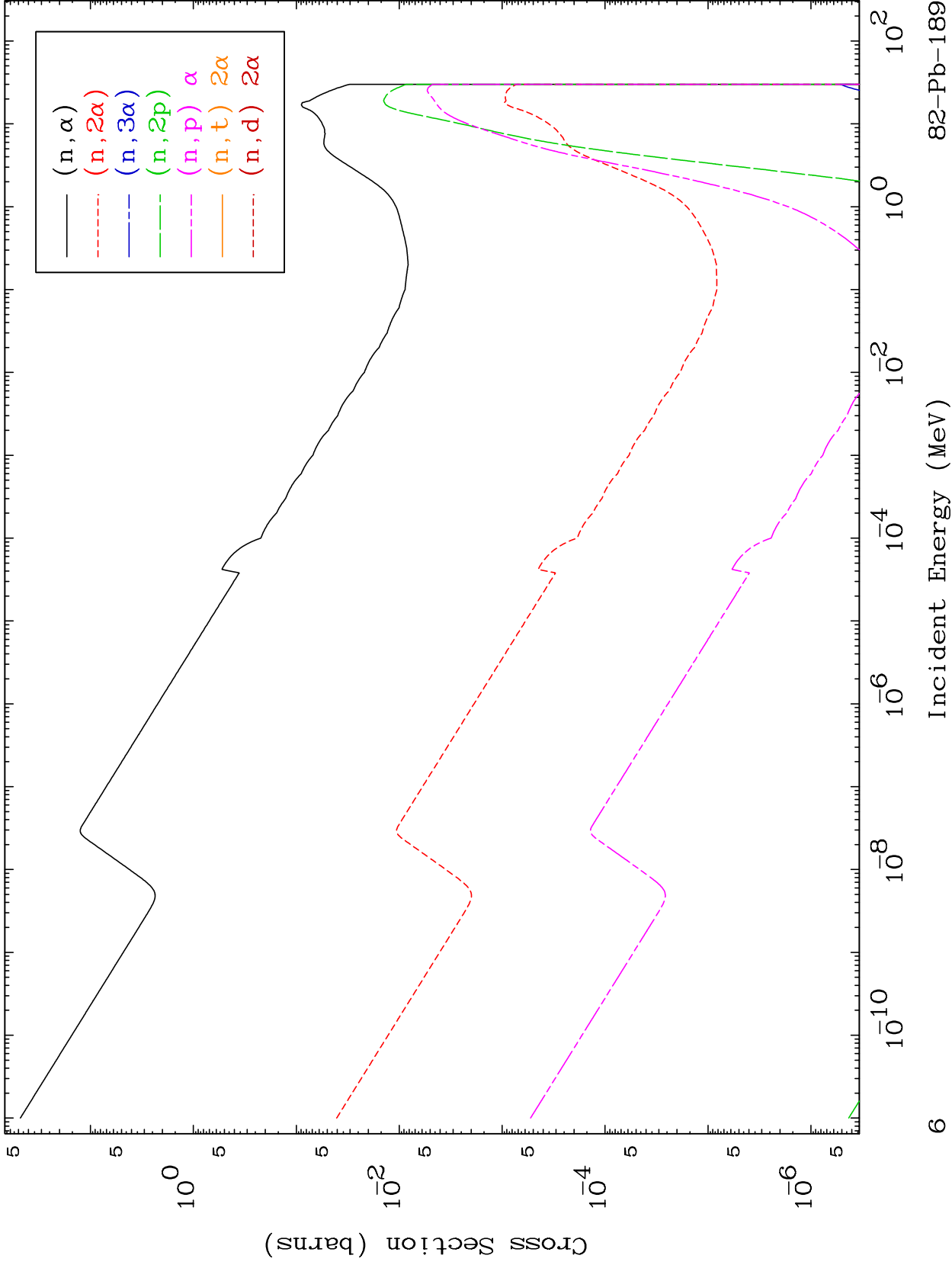
82-Pb-189



MAT 8180

Charged Particle
293 Kelvin Cross Sections

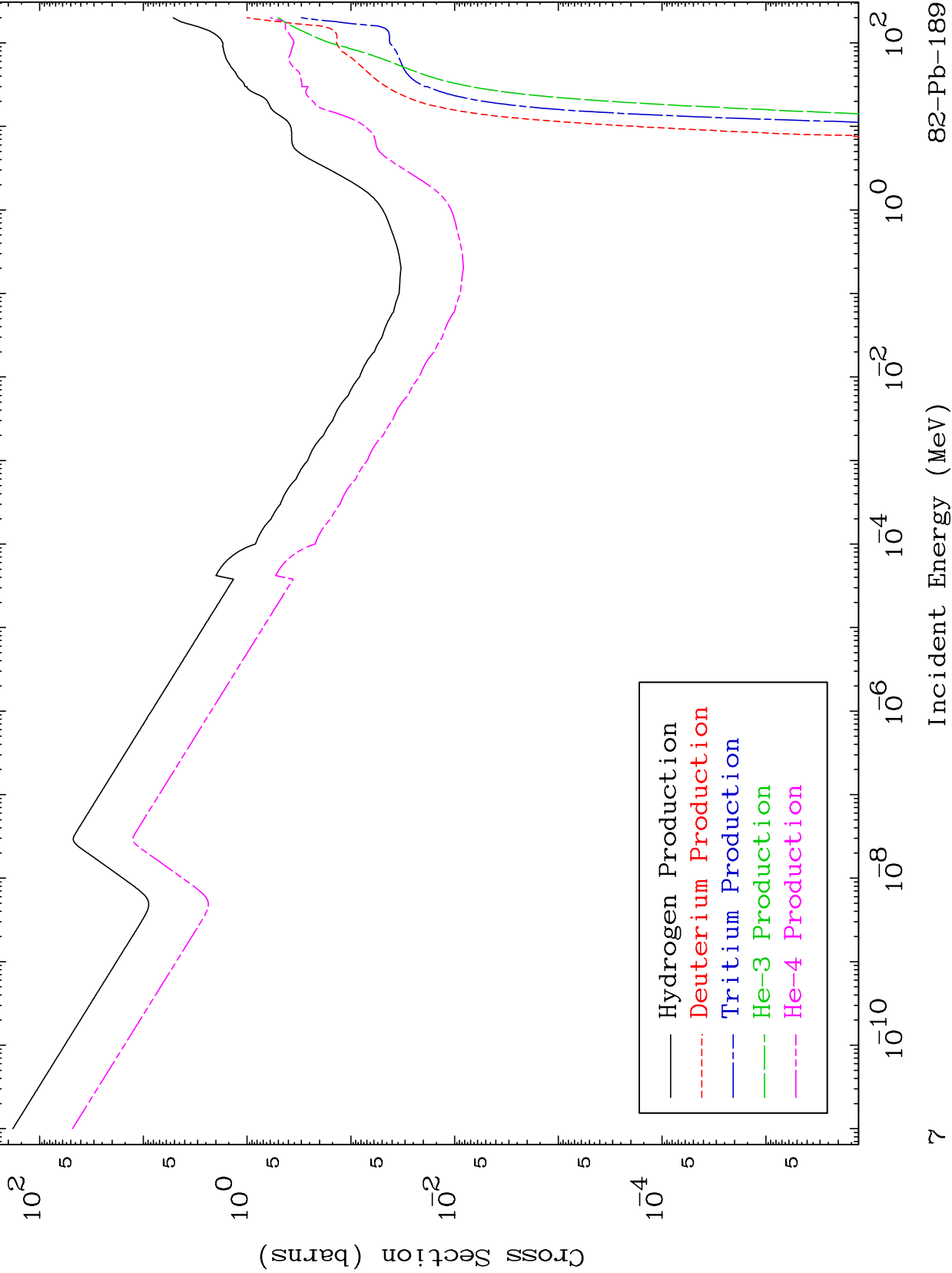
82-Pb-189



MAT 8180

Particle Production
293 Kelvin Cross Sections

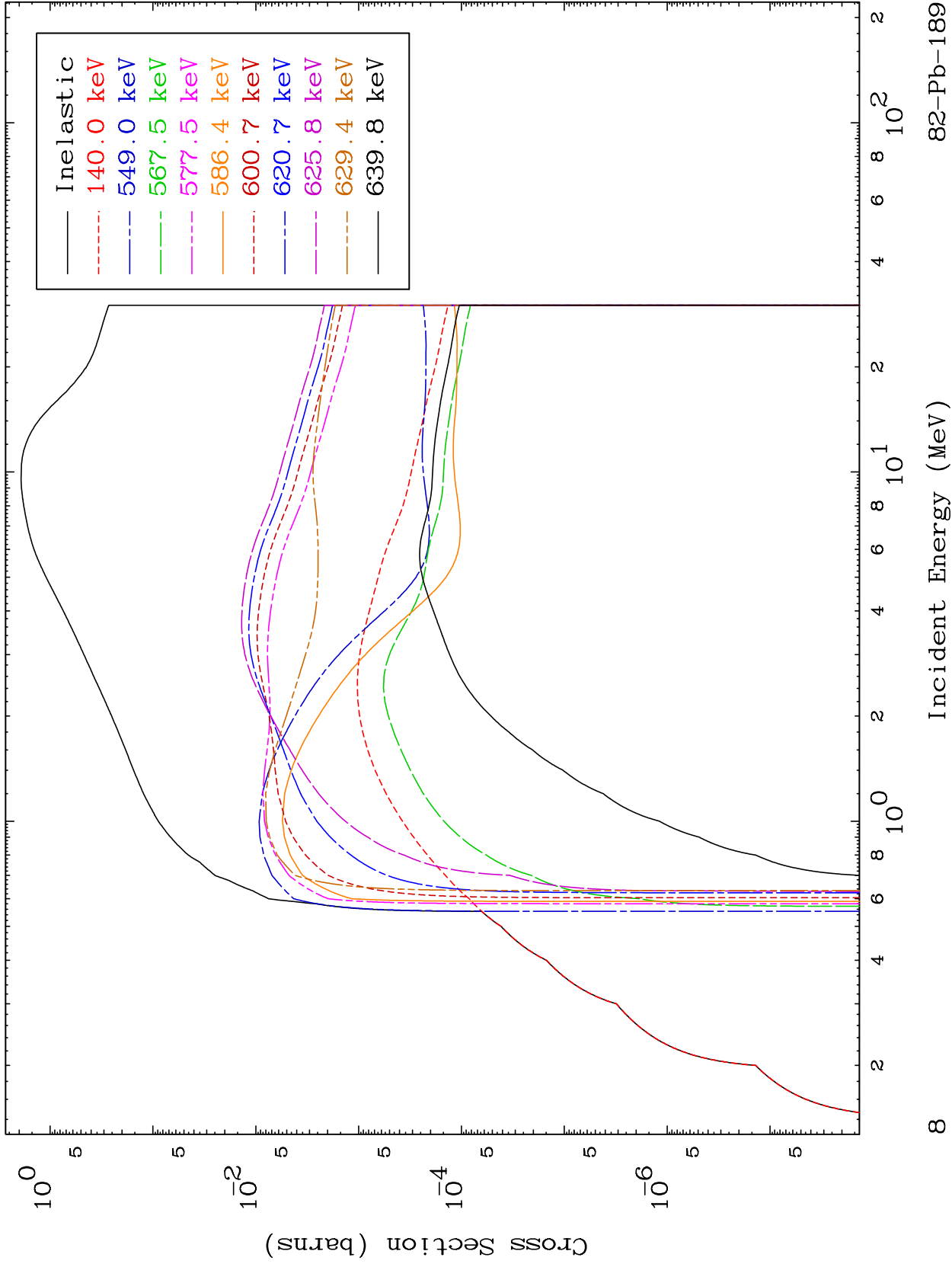
82-Pb-189



MAT 8180

(n,n') Level
293 Kelvin Cross Sections

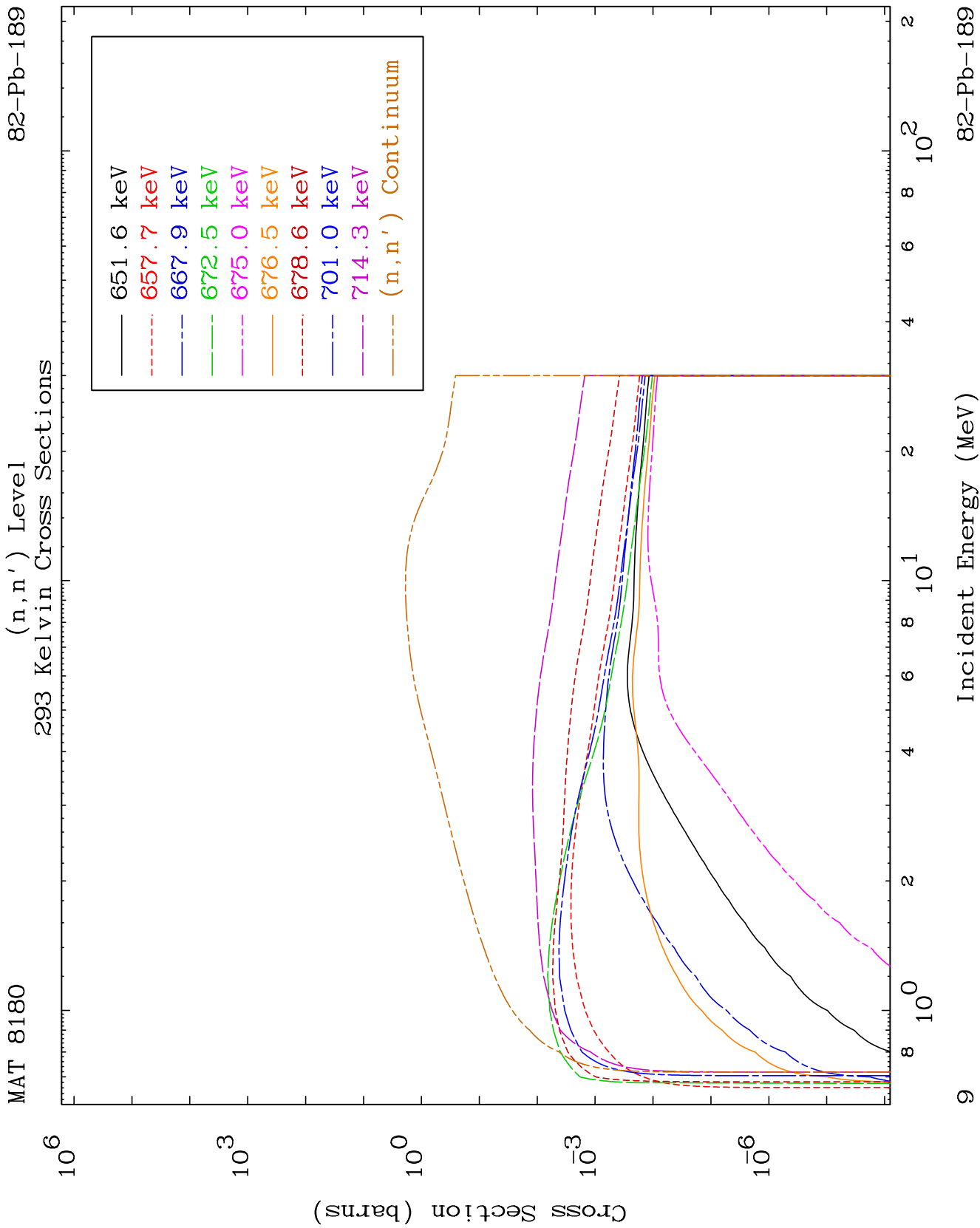
82-Pb-189



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Incident Energy (MeV)

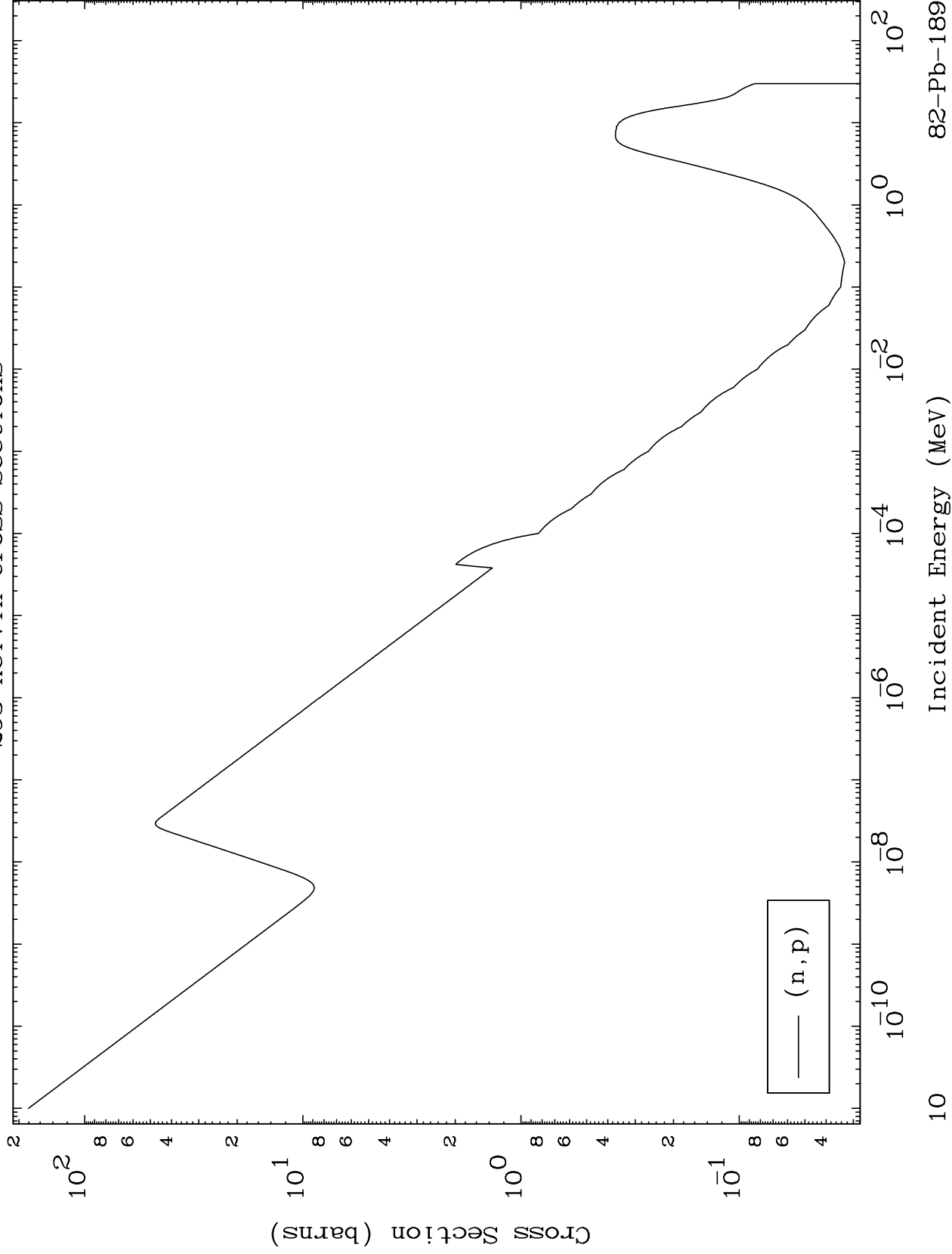
82-Pb-189



MAT 8180

(n,p) Levels
293 Kelvin Cross Sections

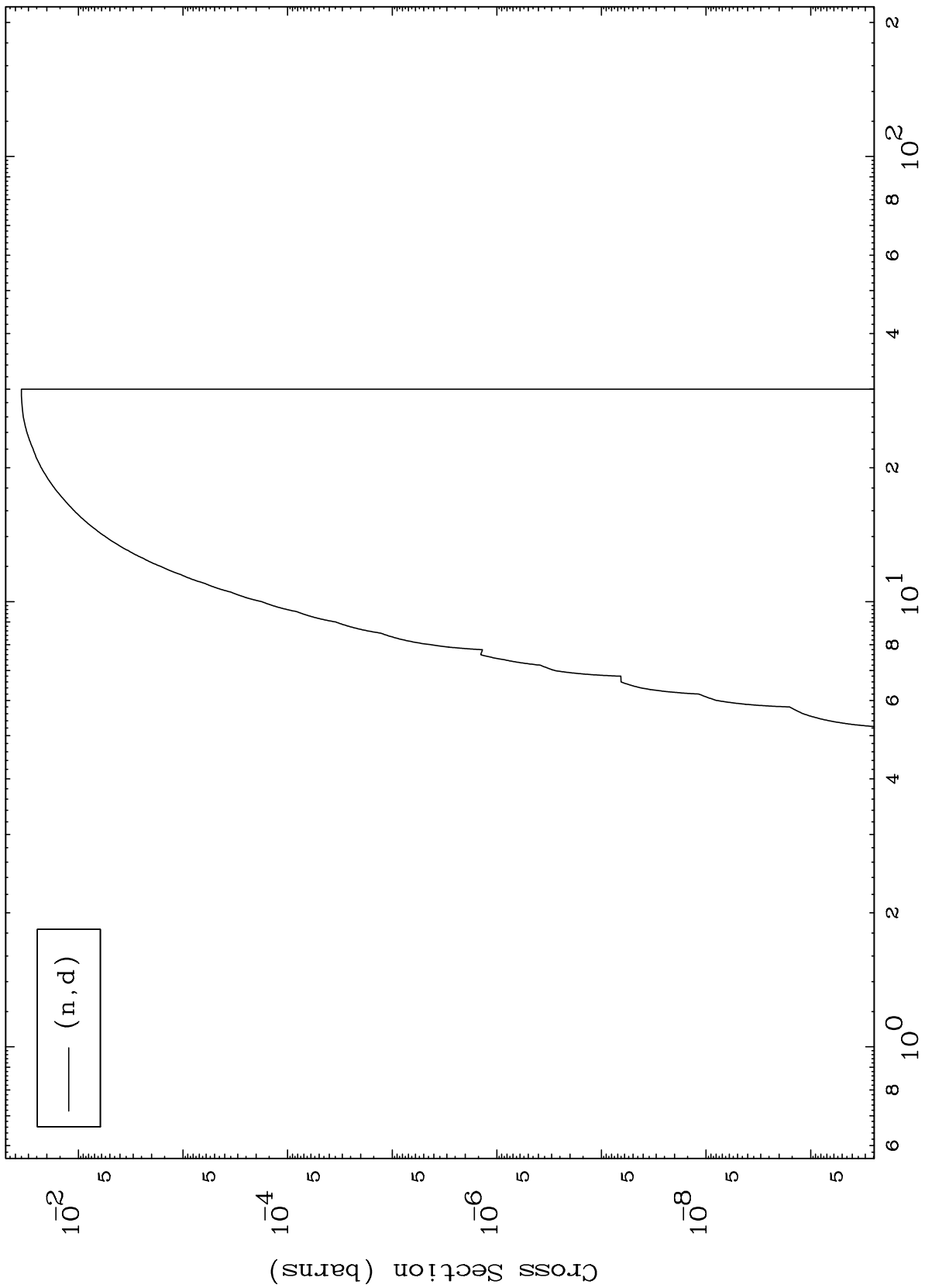
82-Pb-189



MAT 8180

(n,d) Levels
293 Kelvin Cross Sections

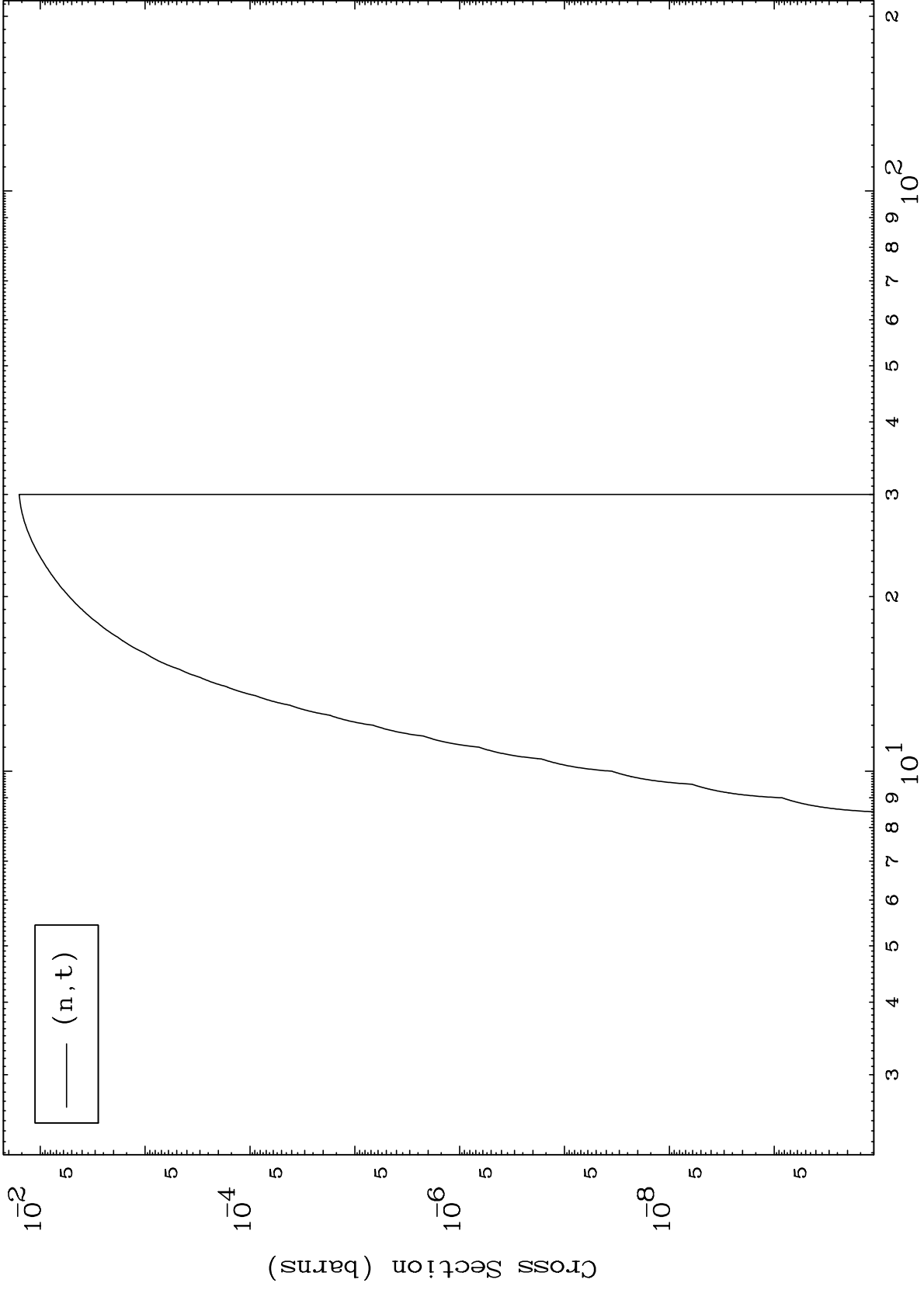
82-Pb-189



MAT 8180

(n,t) Levels
293 Kelvin Cross Sections

82-Pb-189



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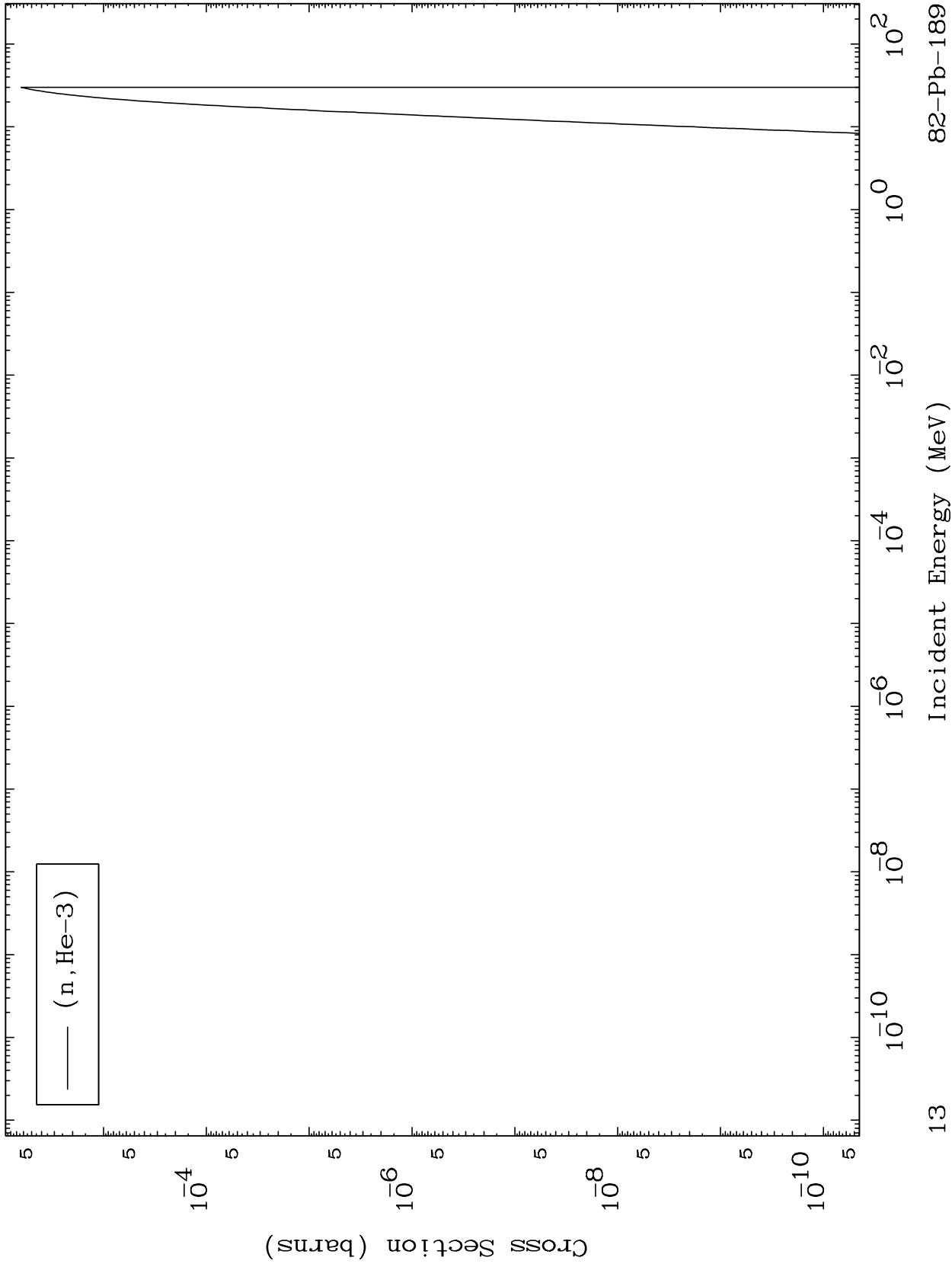
Incident Energy (MeV)

82-Pb-189

MAT 8180

(n,He3) Levels
293 Kelvin Cross Sections

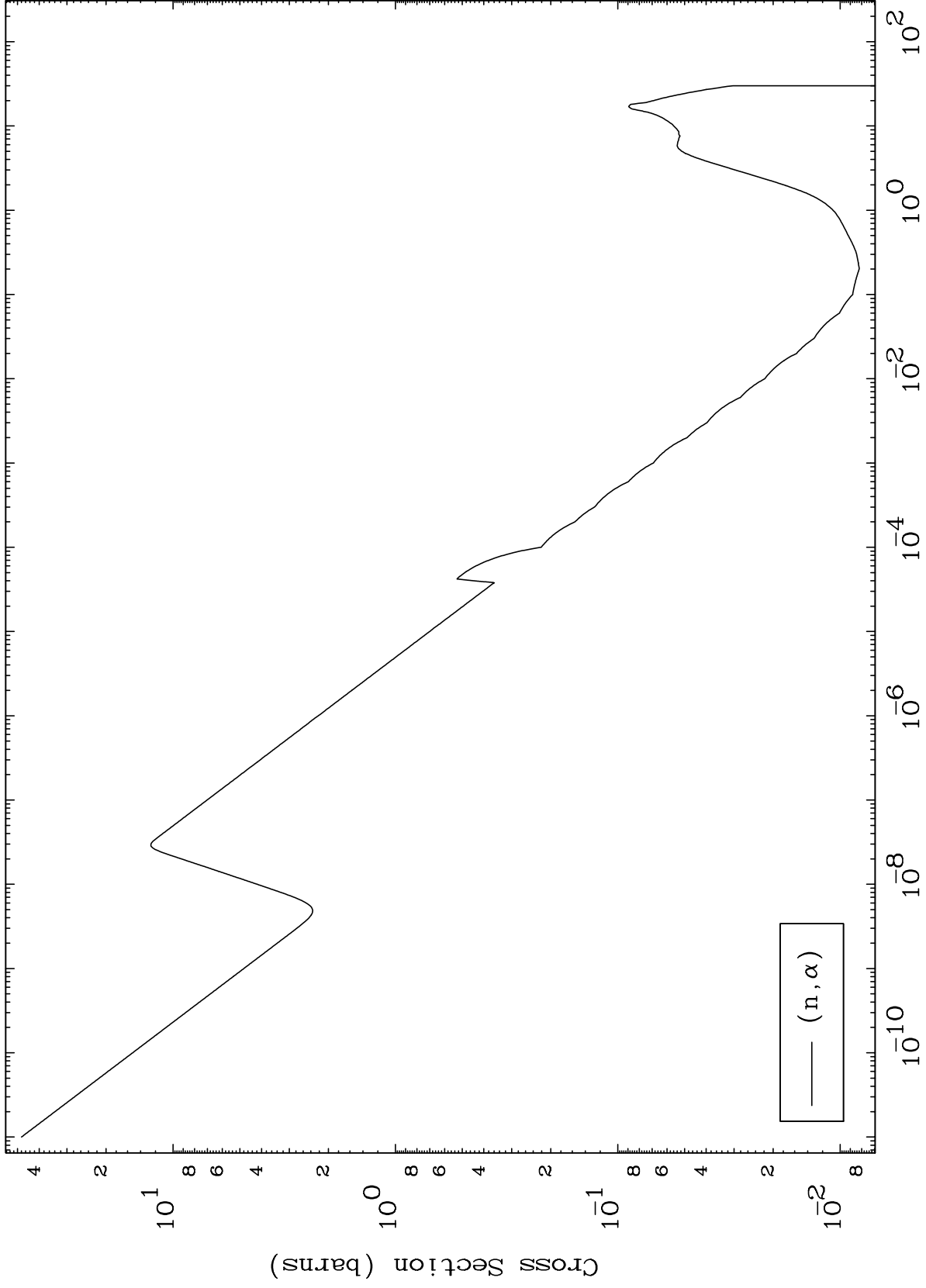
82-Pb-189



MAT 8180

(n, α) Levels
293 Kelvin Cross Sections

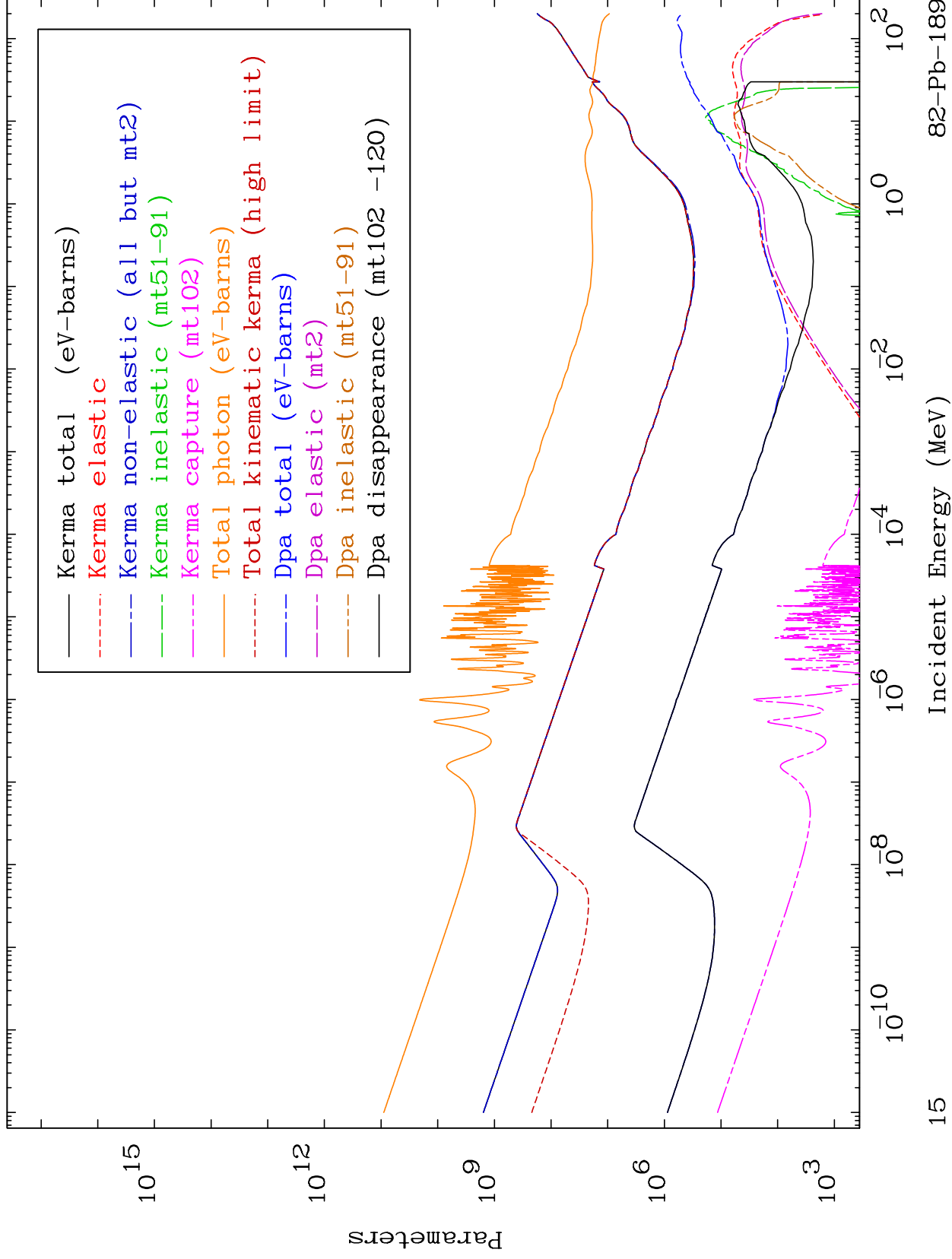
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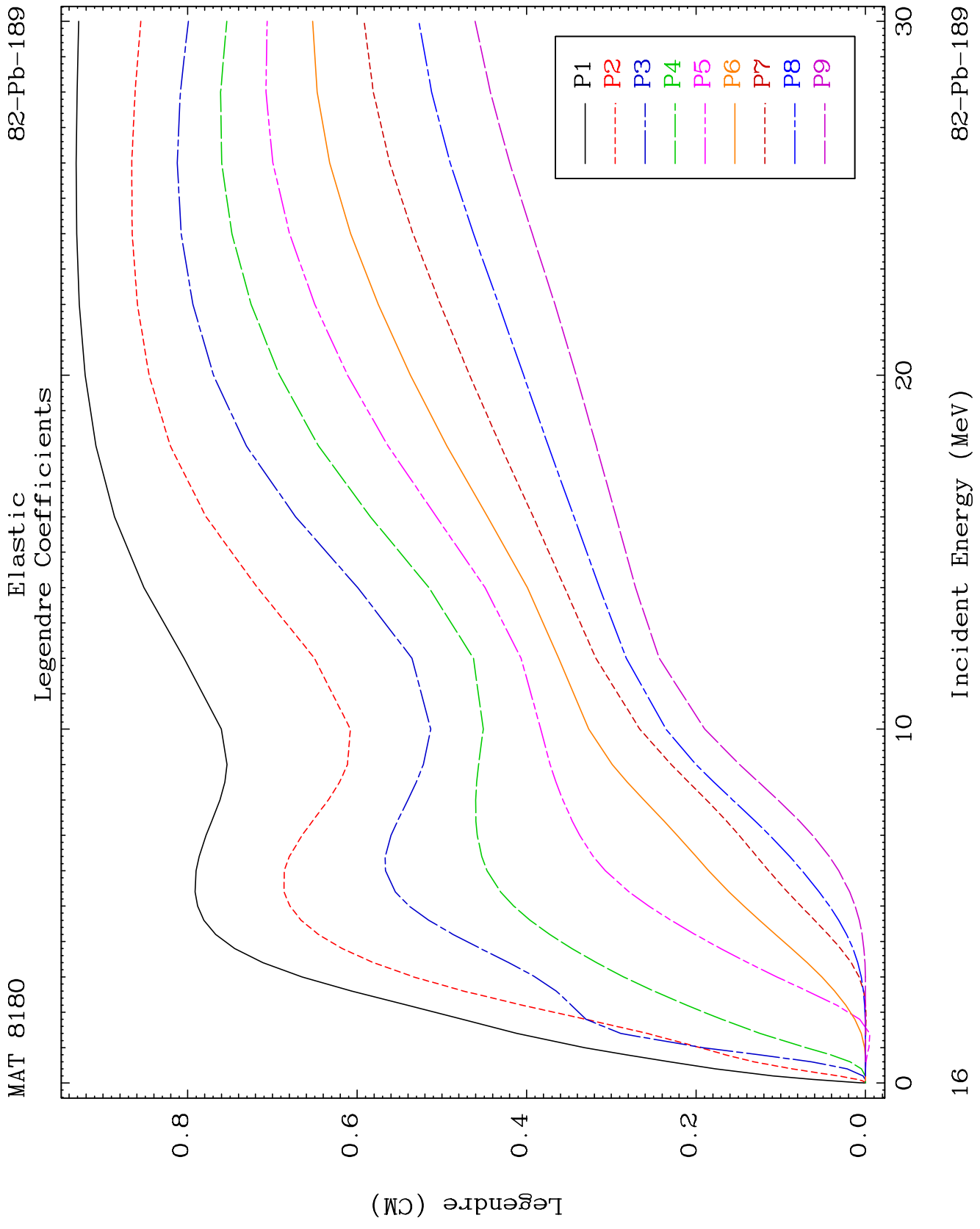


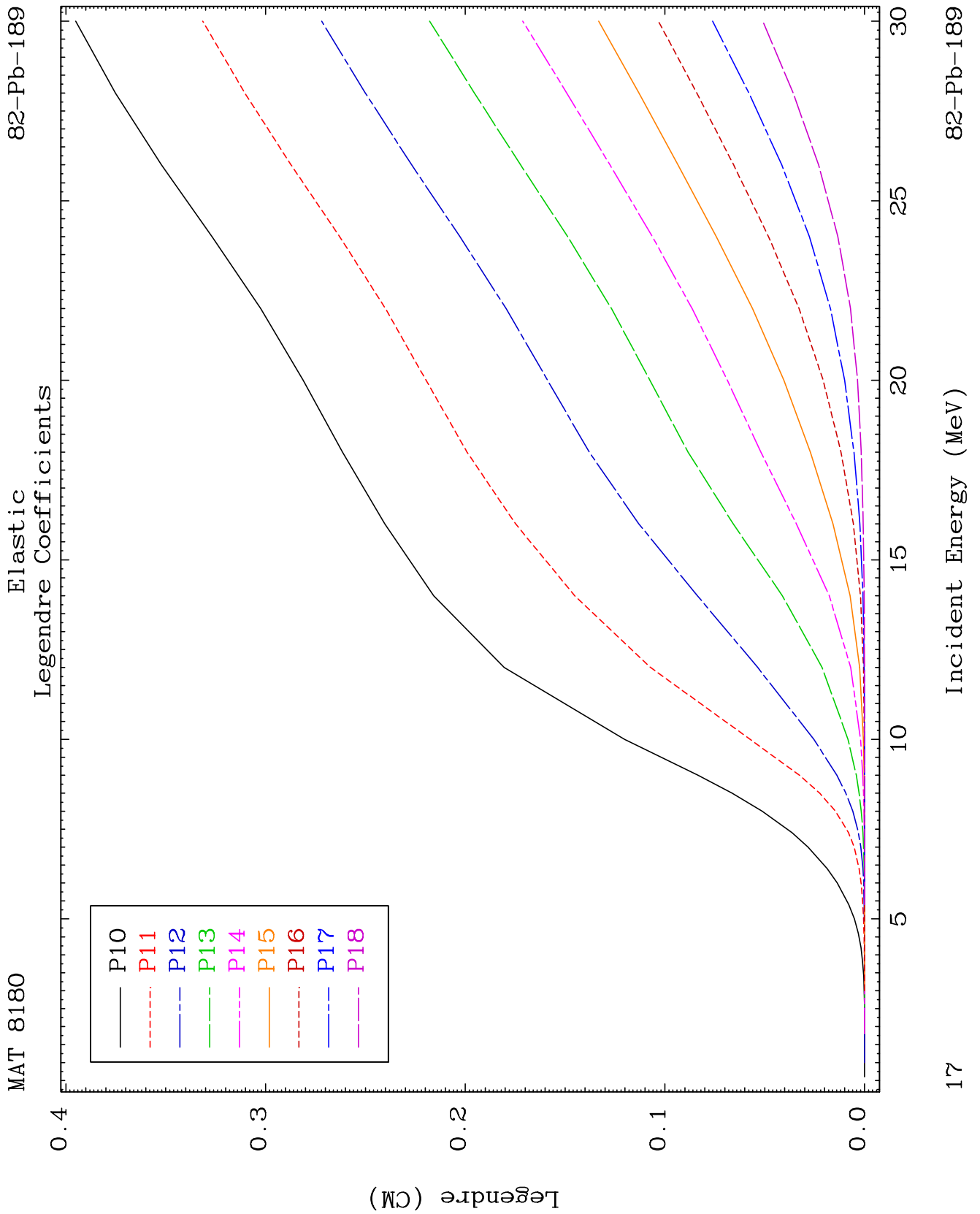
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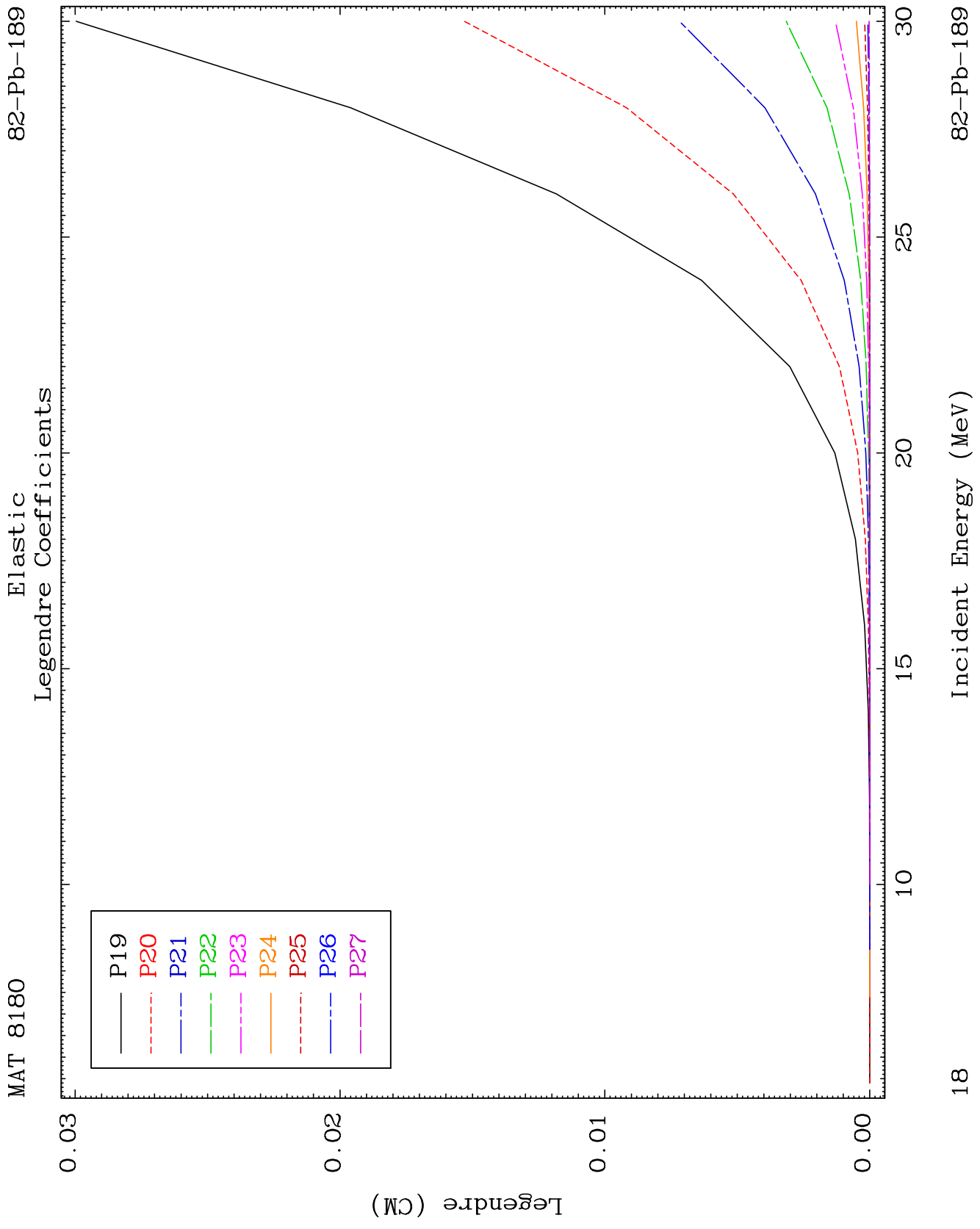
Incident Energy (MeV)

82-Pb-189





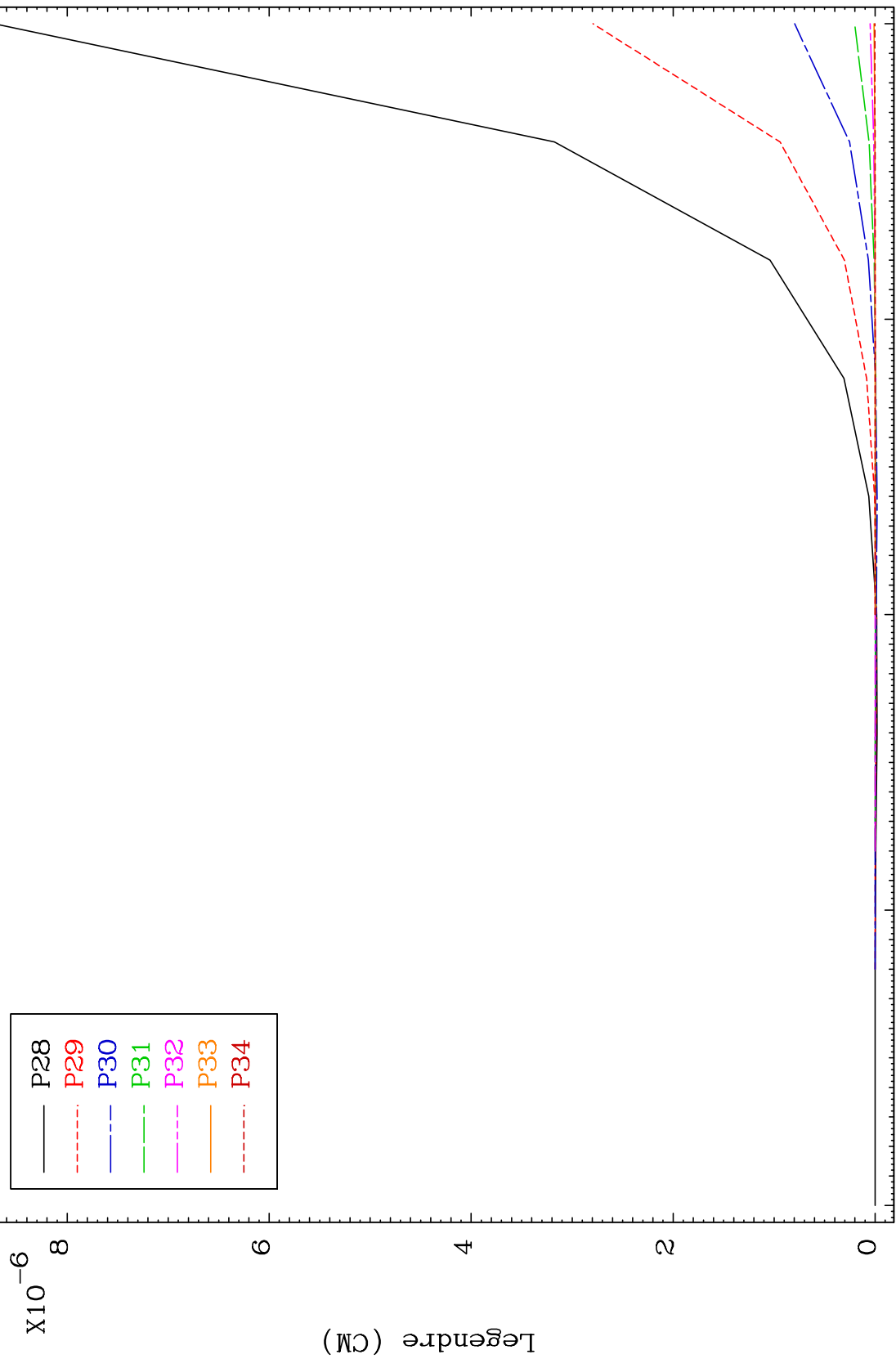
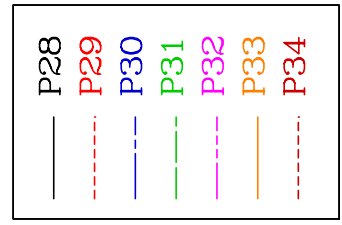




MAT 8180

Elastic Legendre Coefficients

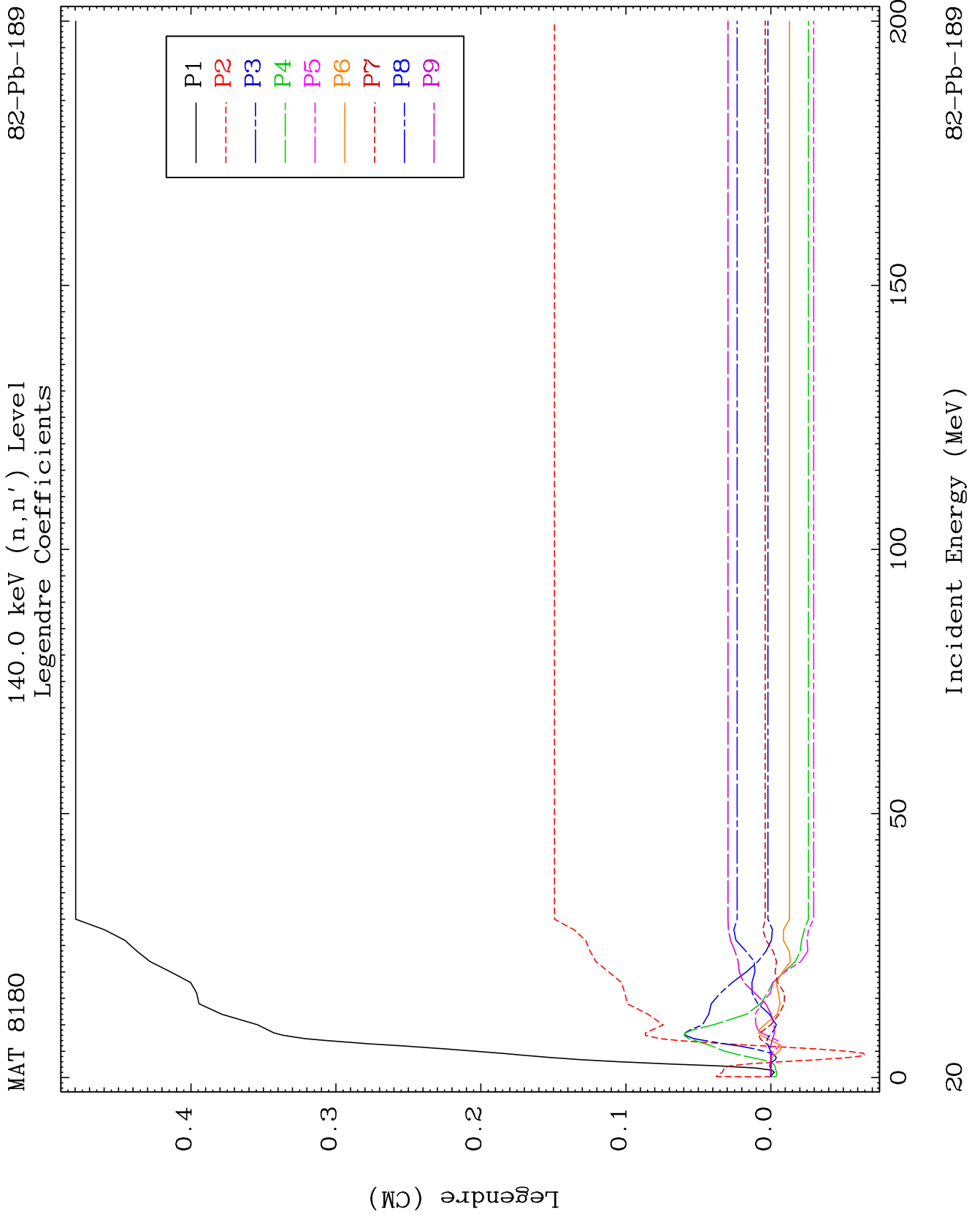
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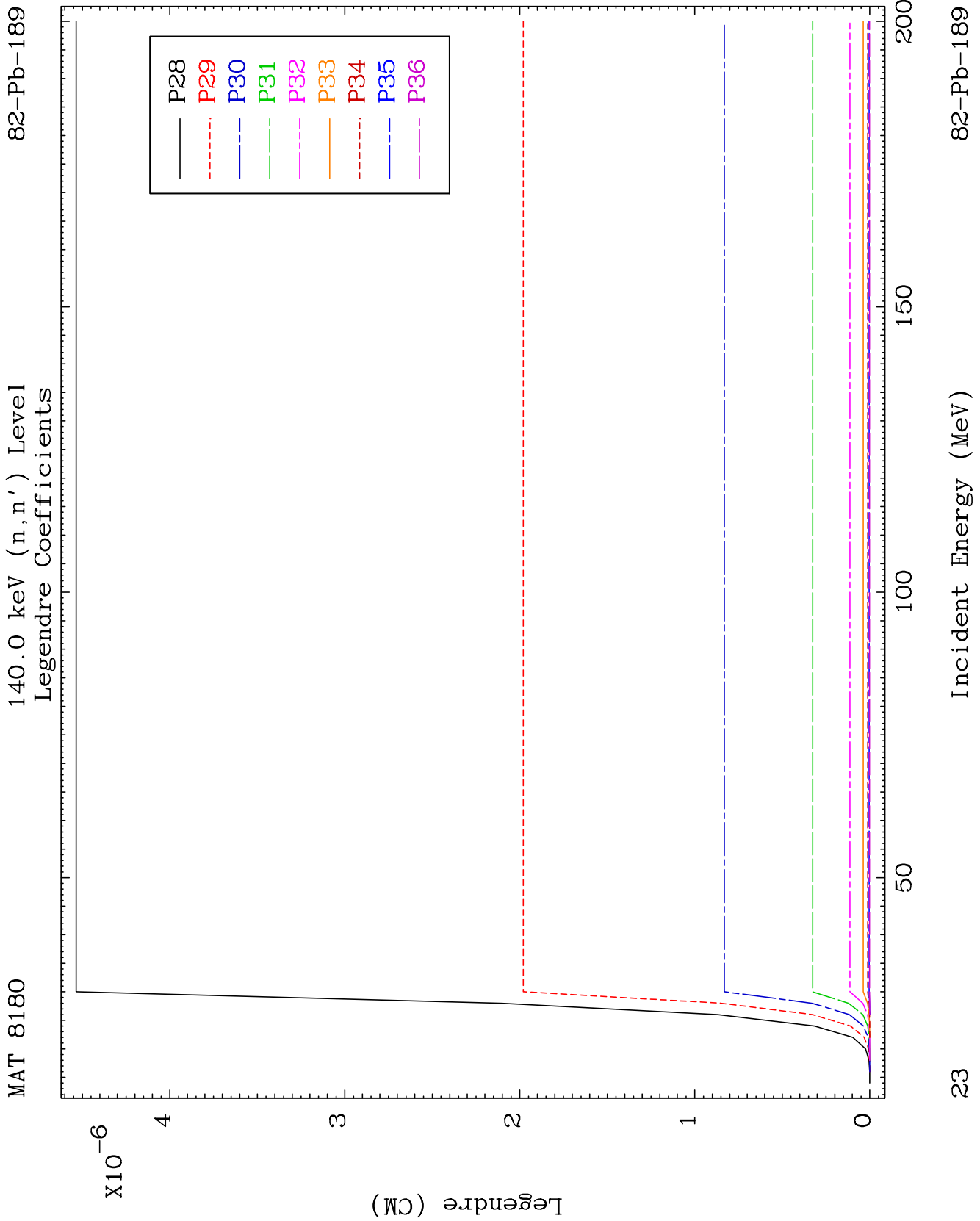


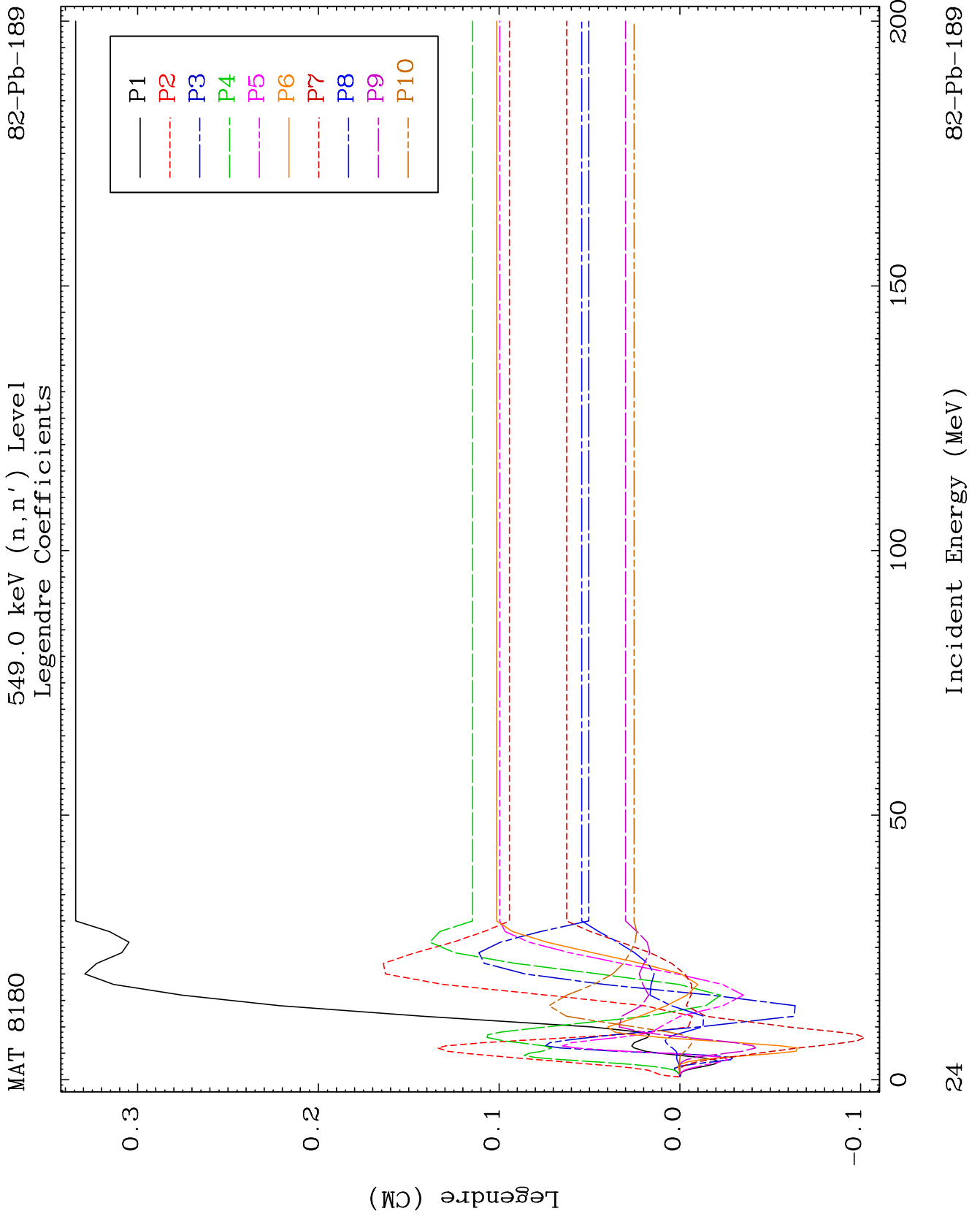
82-Pb-189

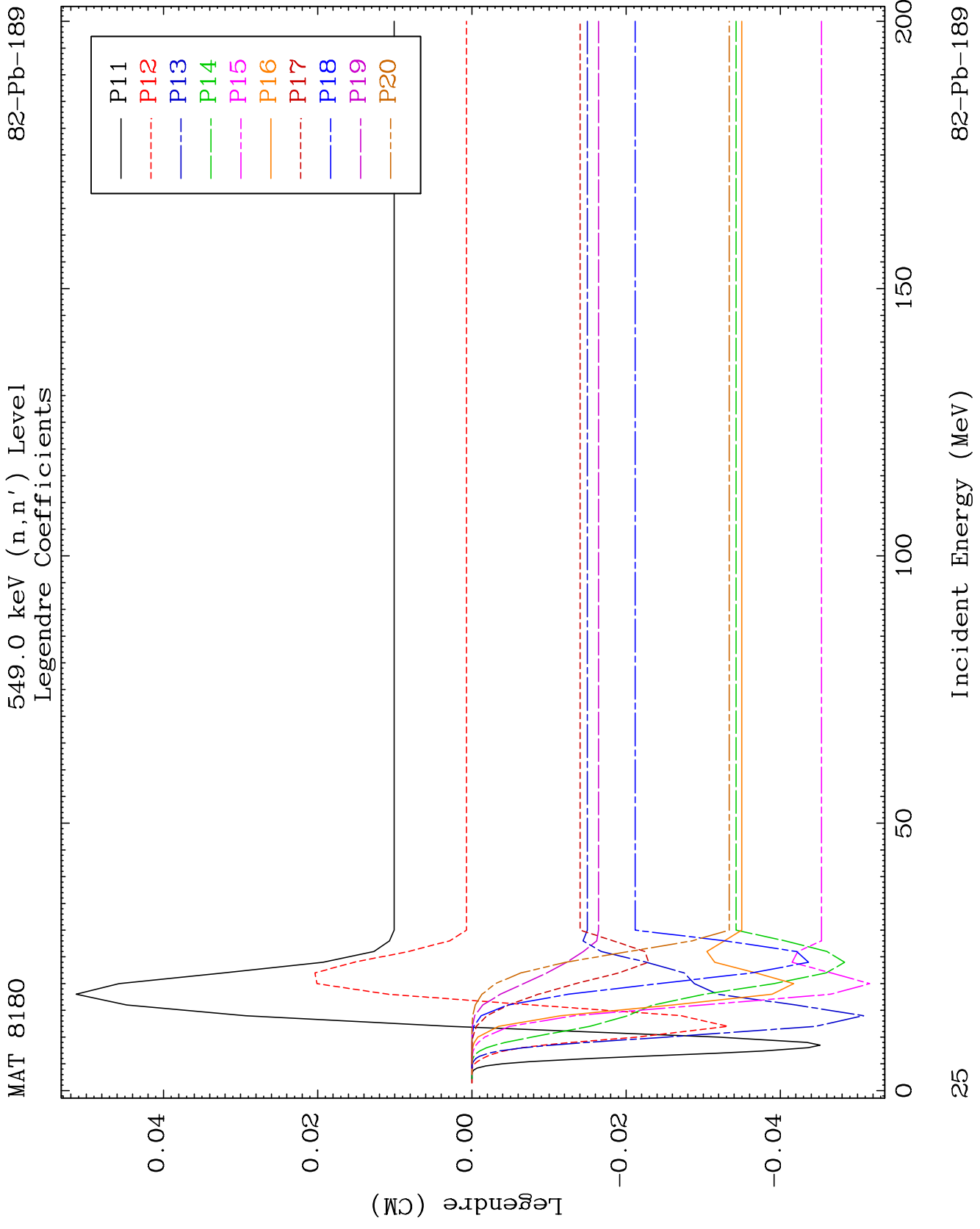
Incident Energy (MeV)

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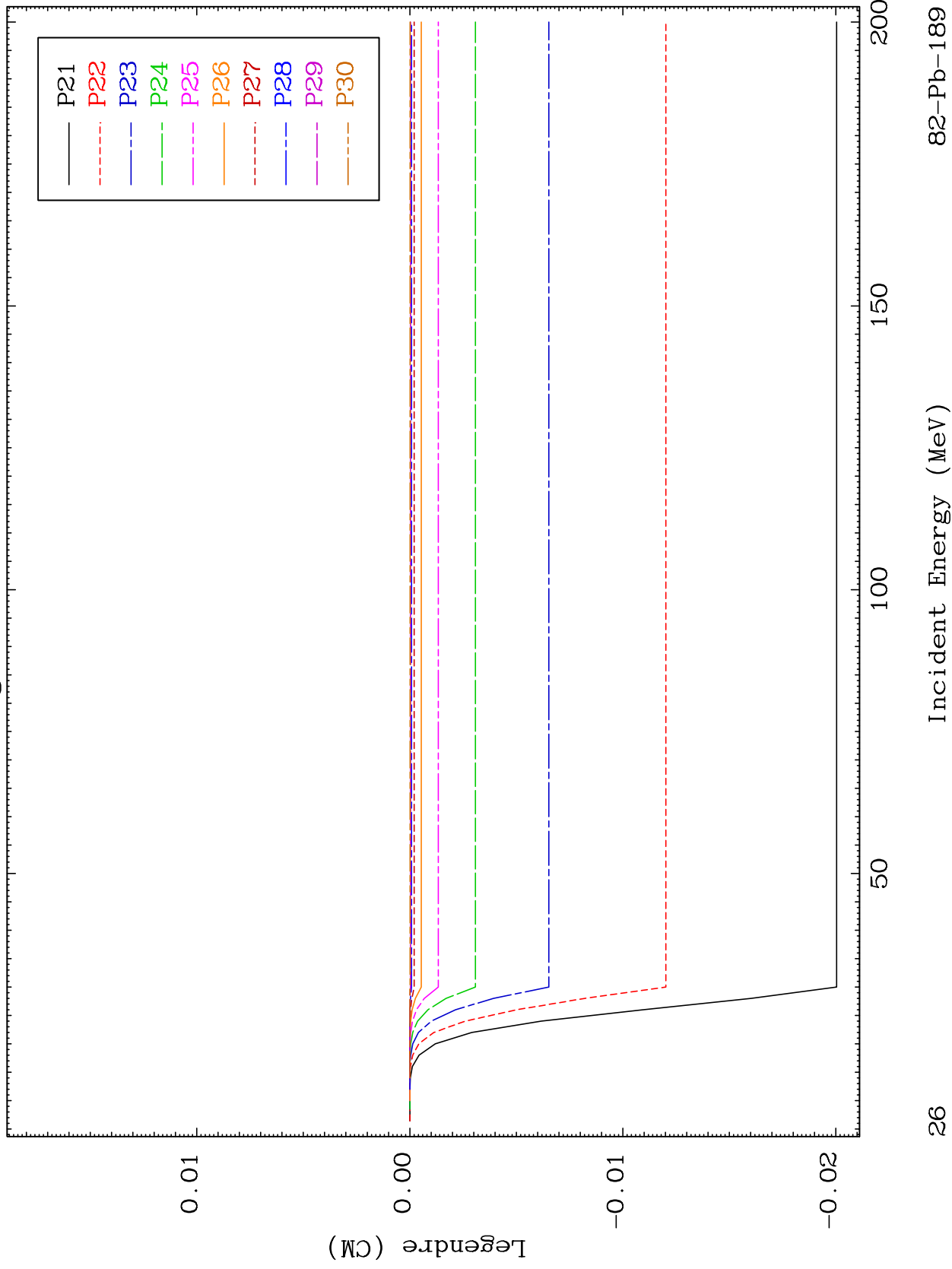




MAT 8180

549.0 keV (n,n') Level
Legendre Coefficients

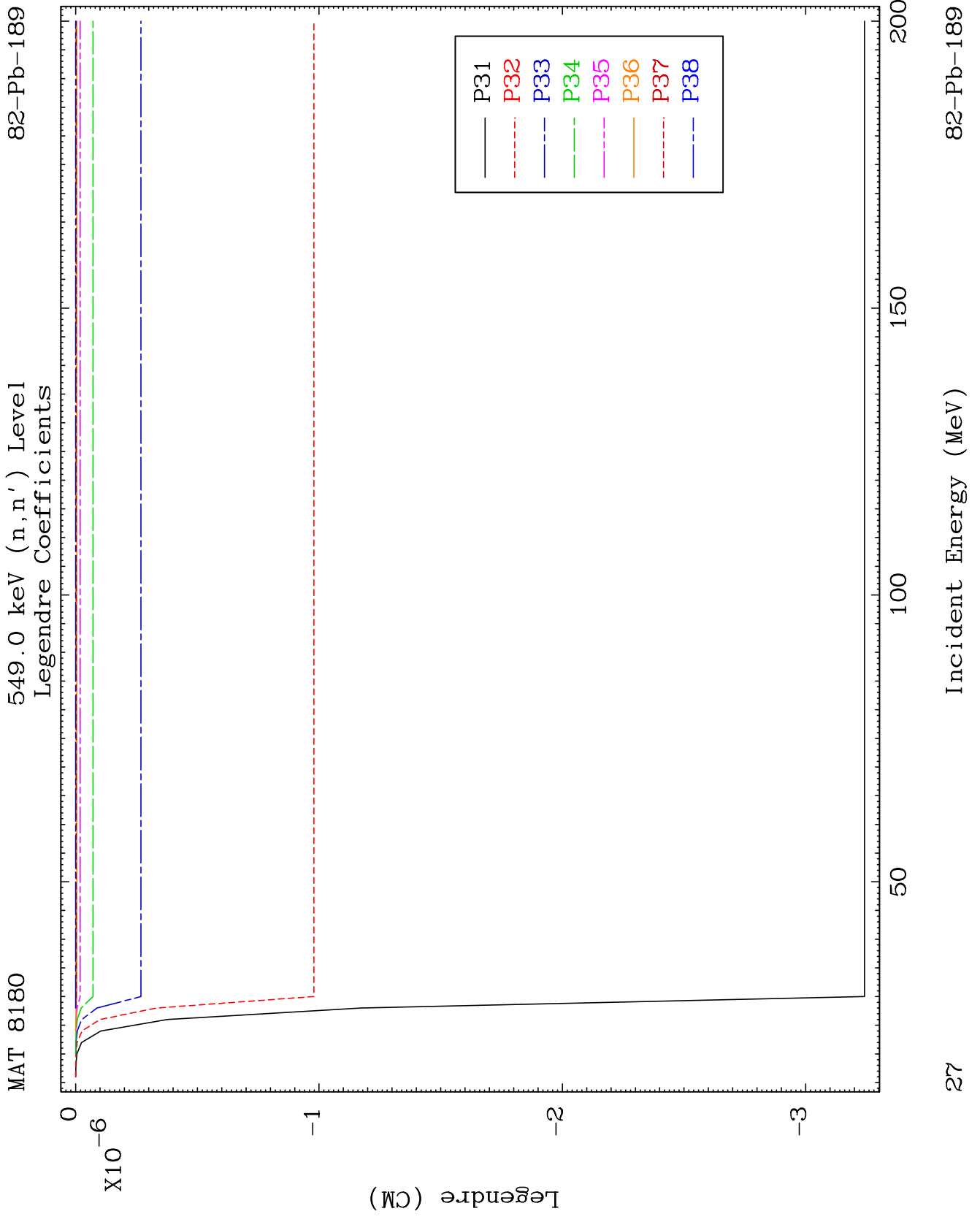
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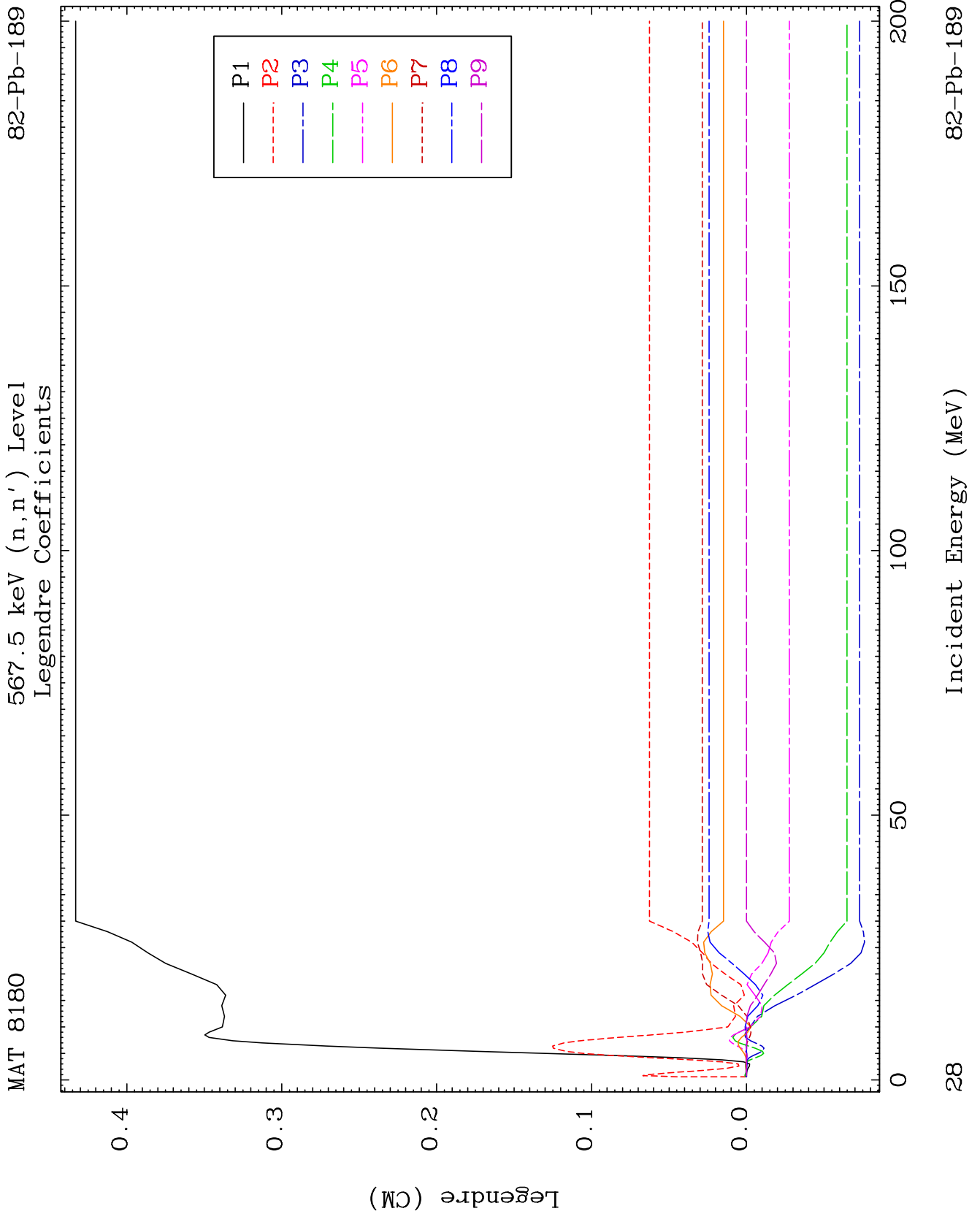


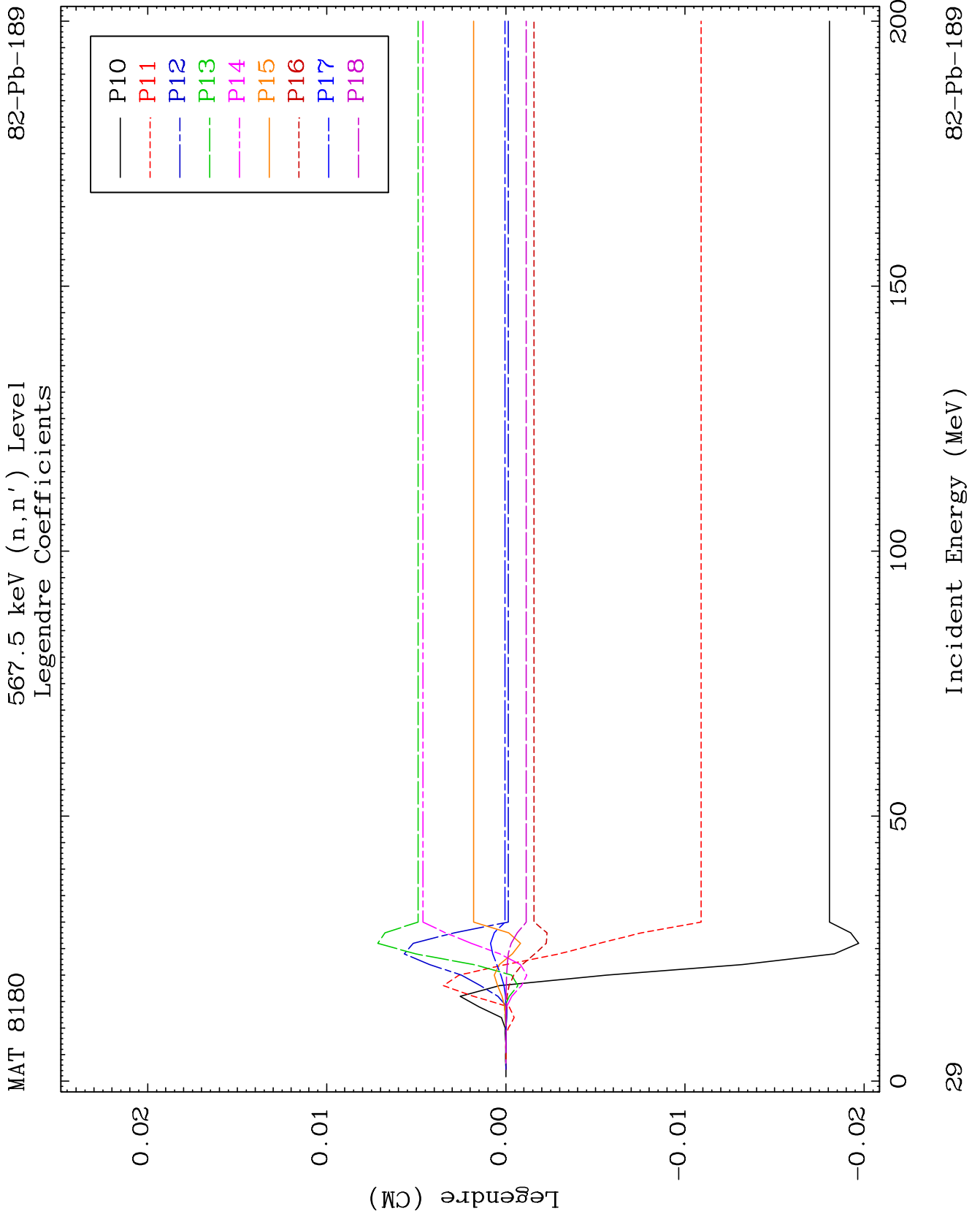
26

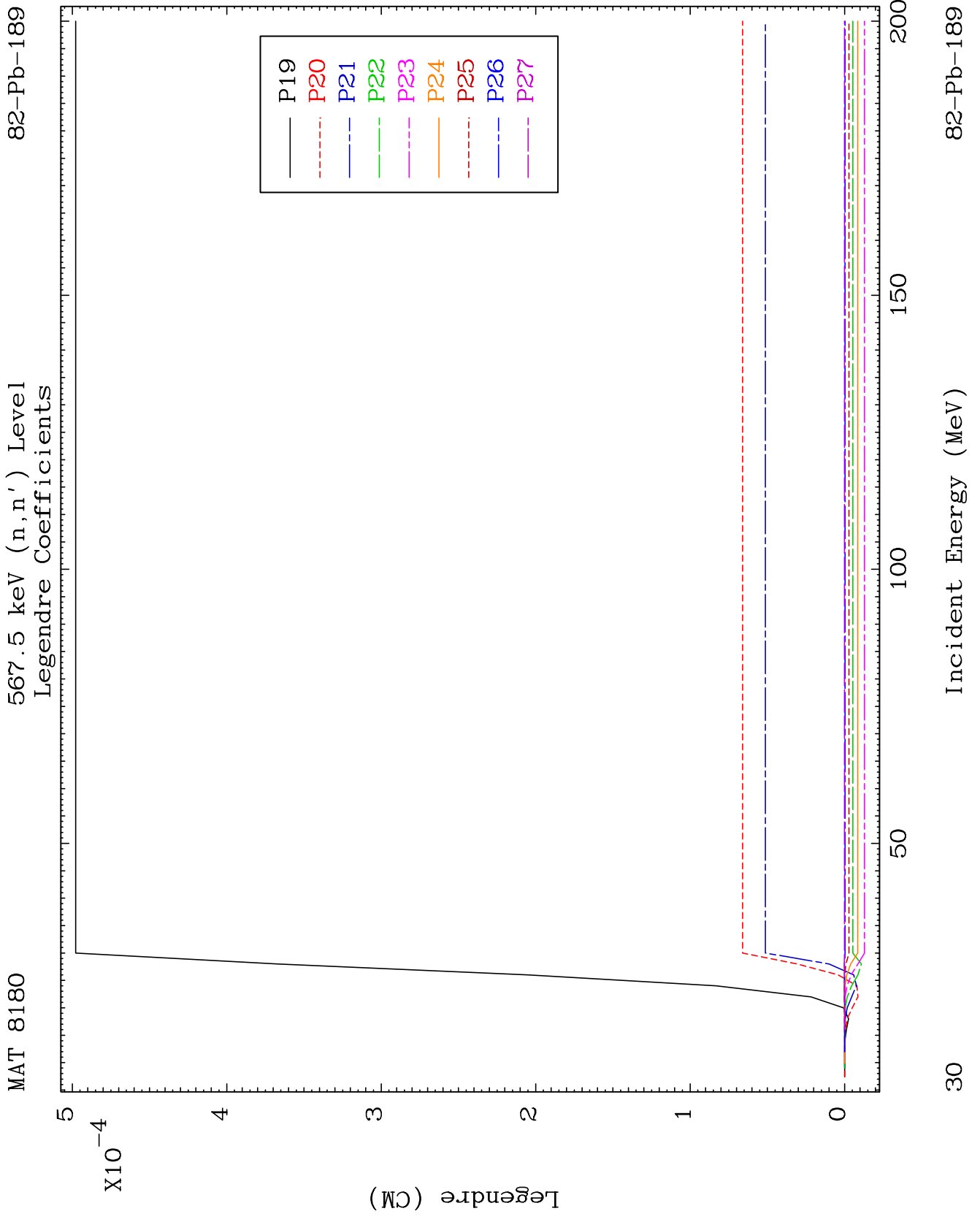
Incident Energy (MeV)

82-Pb-189





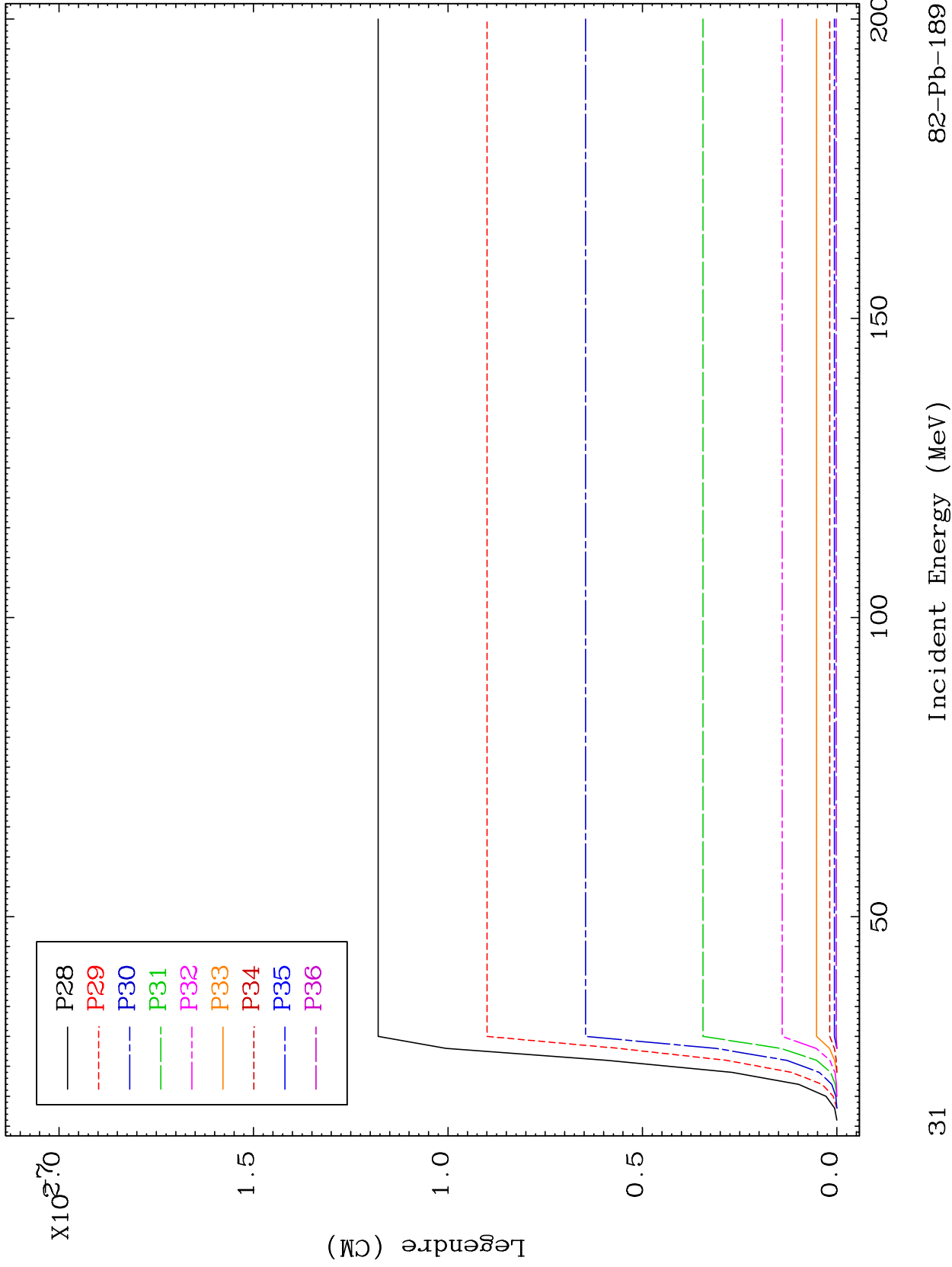


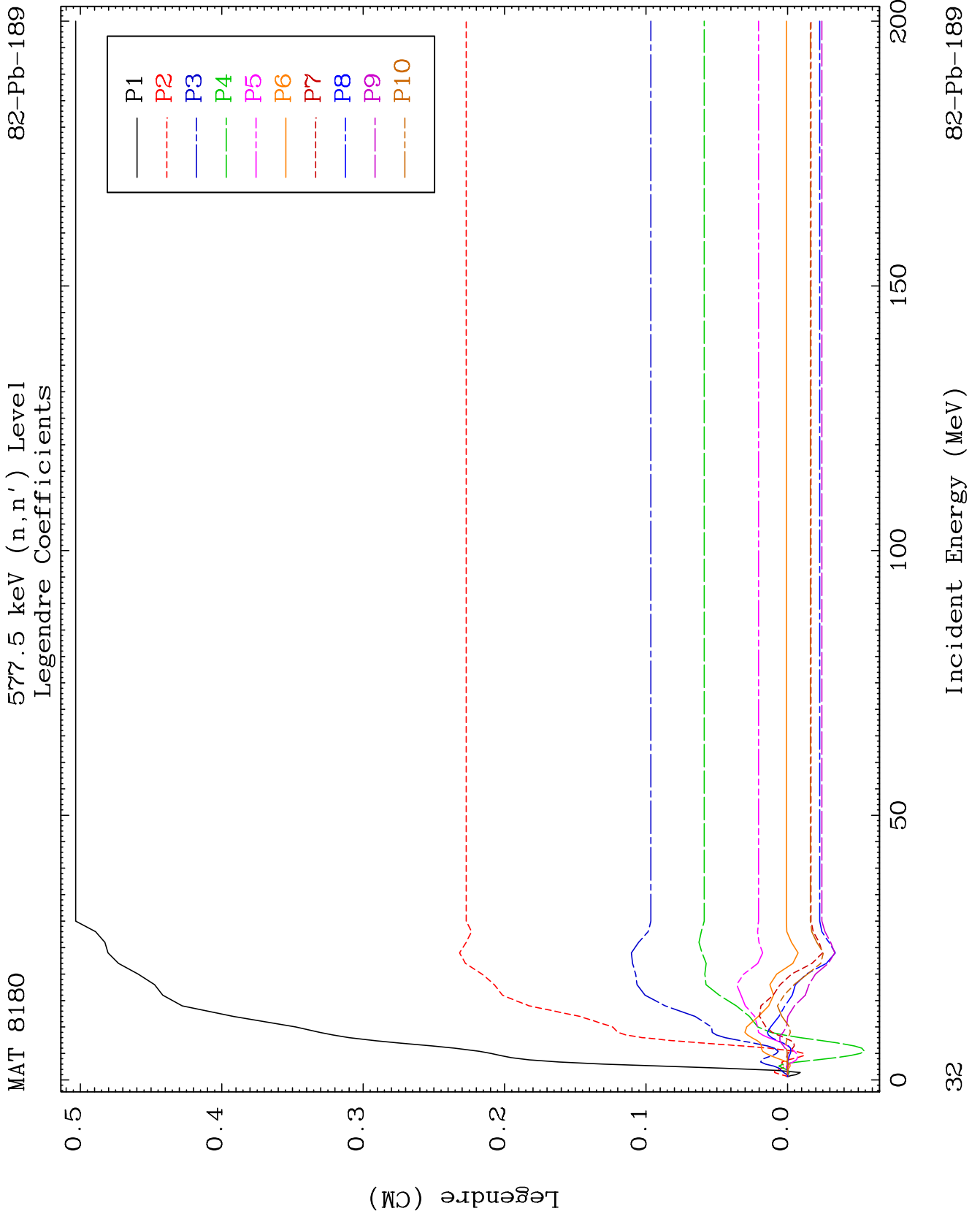


MAT 8180

567.5 keV (n,n') Level
Legendre Coefficients

82-Pb-189

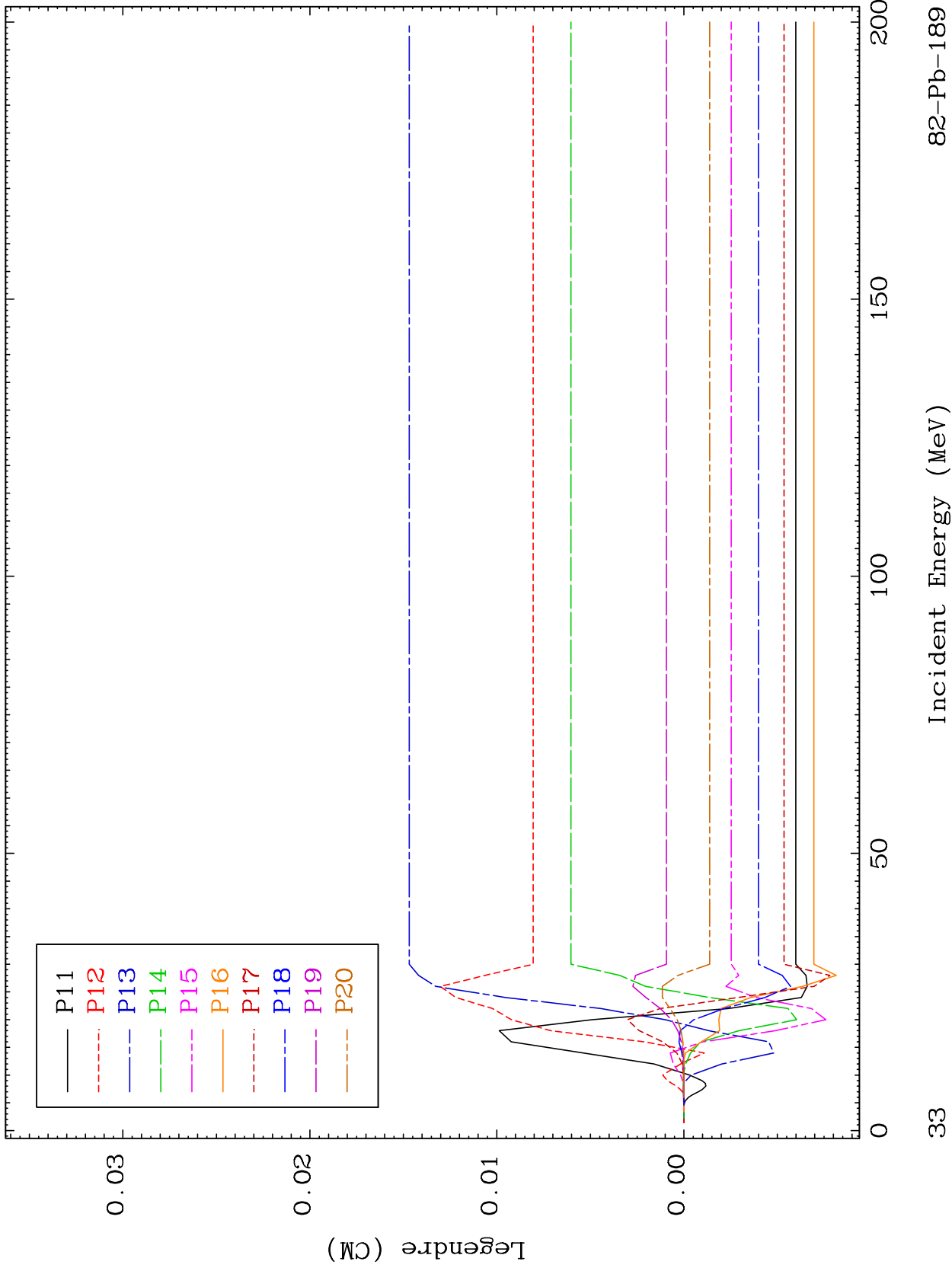




MAT 8180

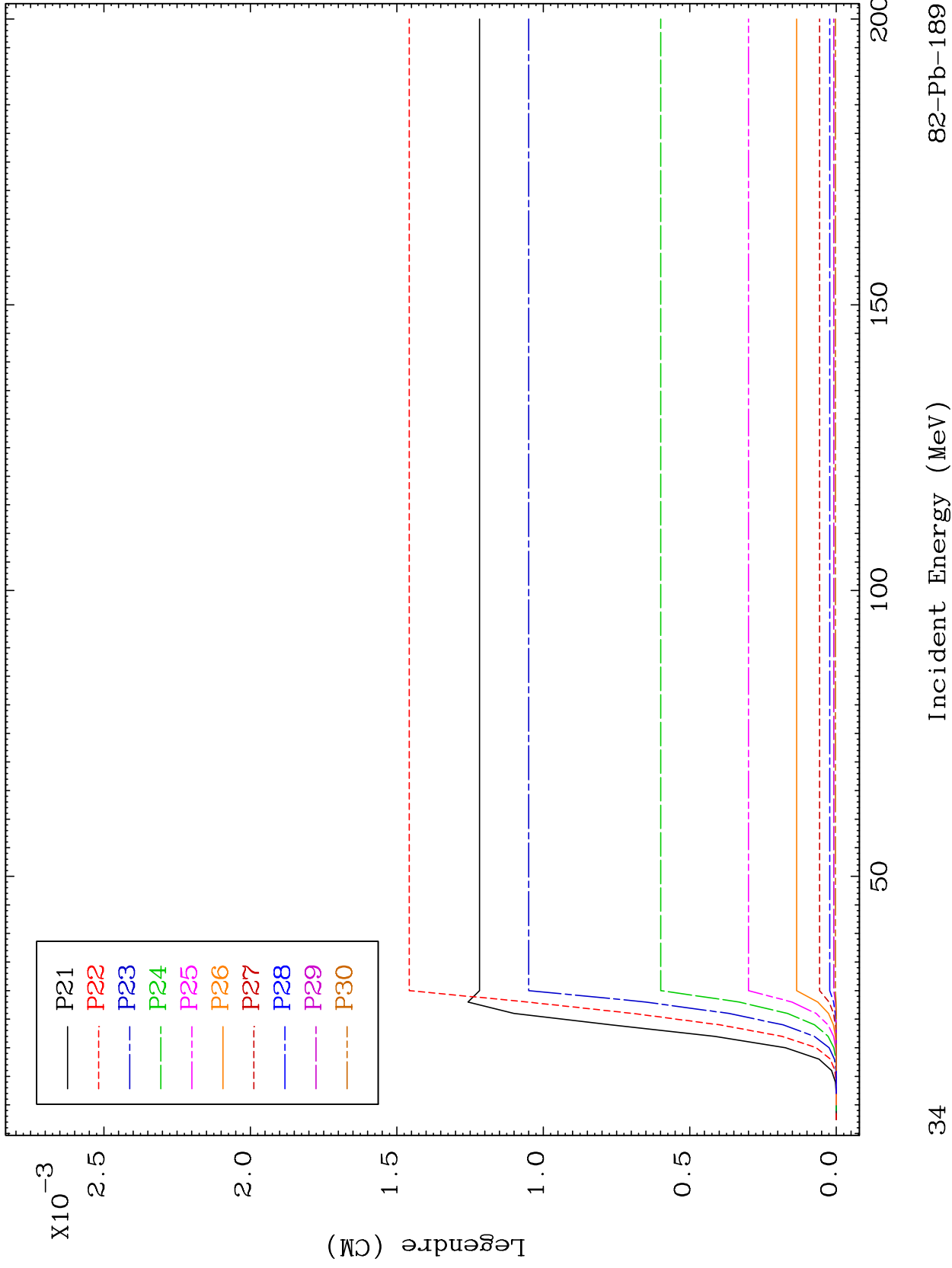
577.5 keV (n,n') Level
Legendre Coefficients

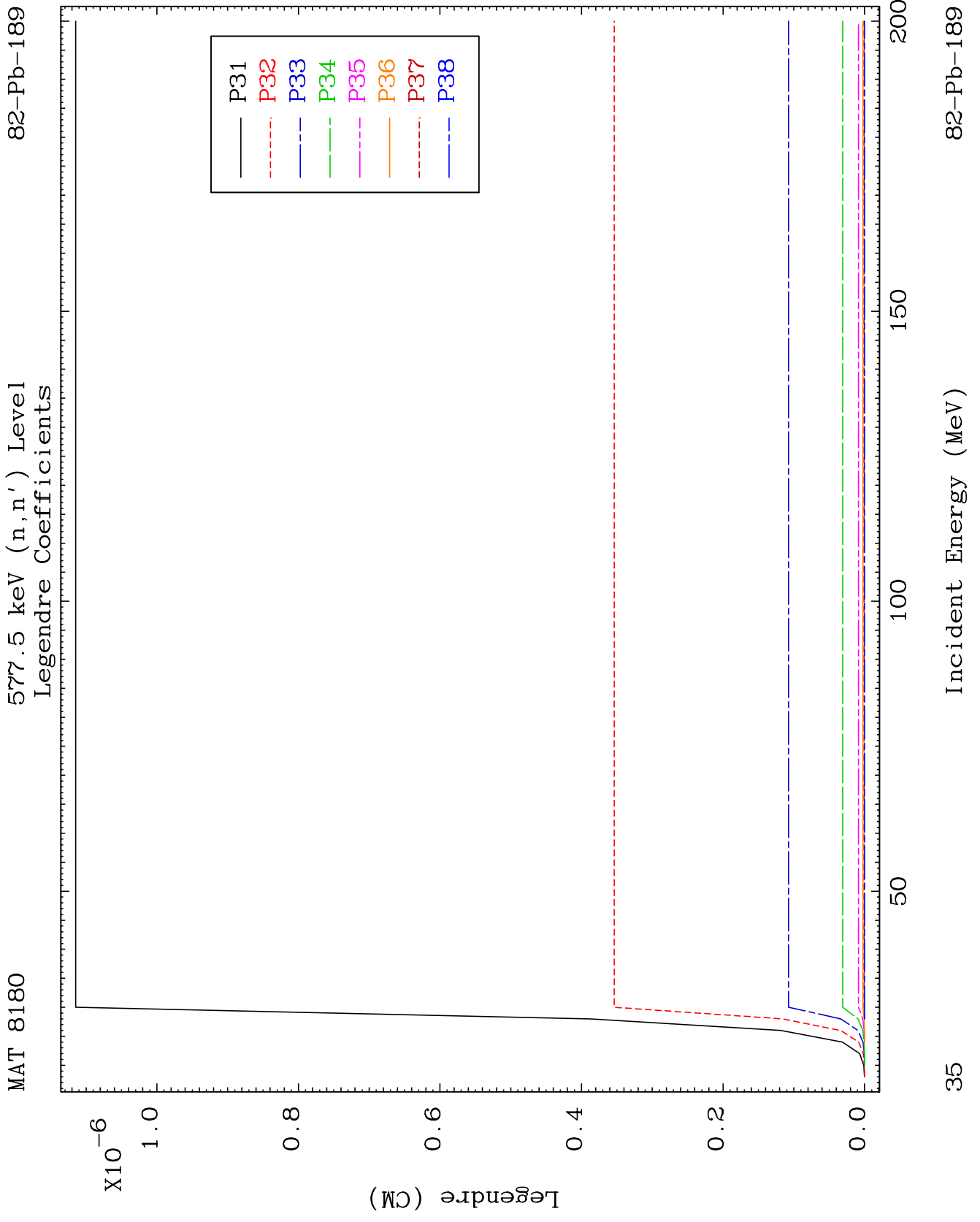
82-Pb-189

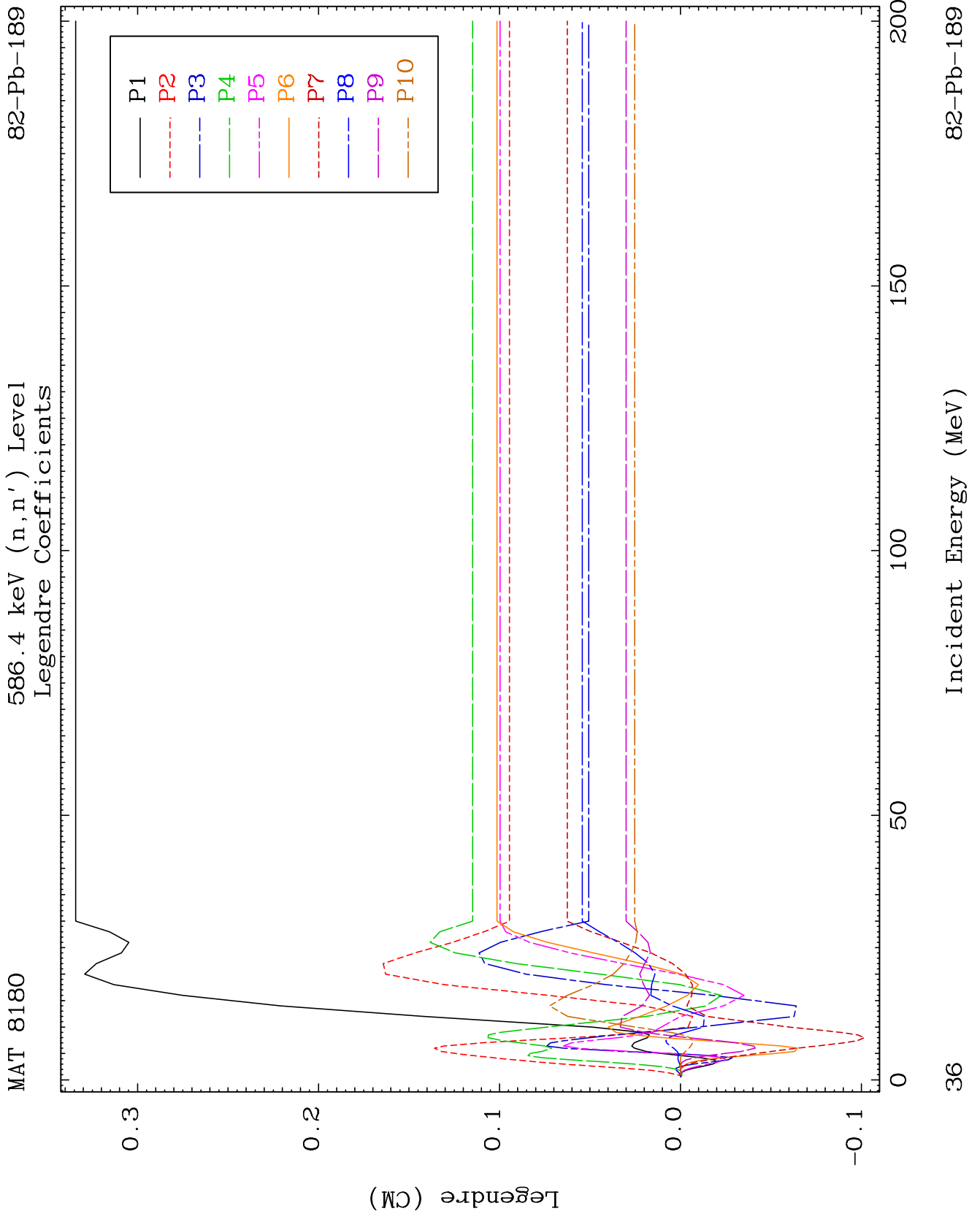


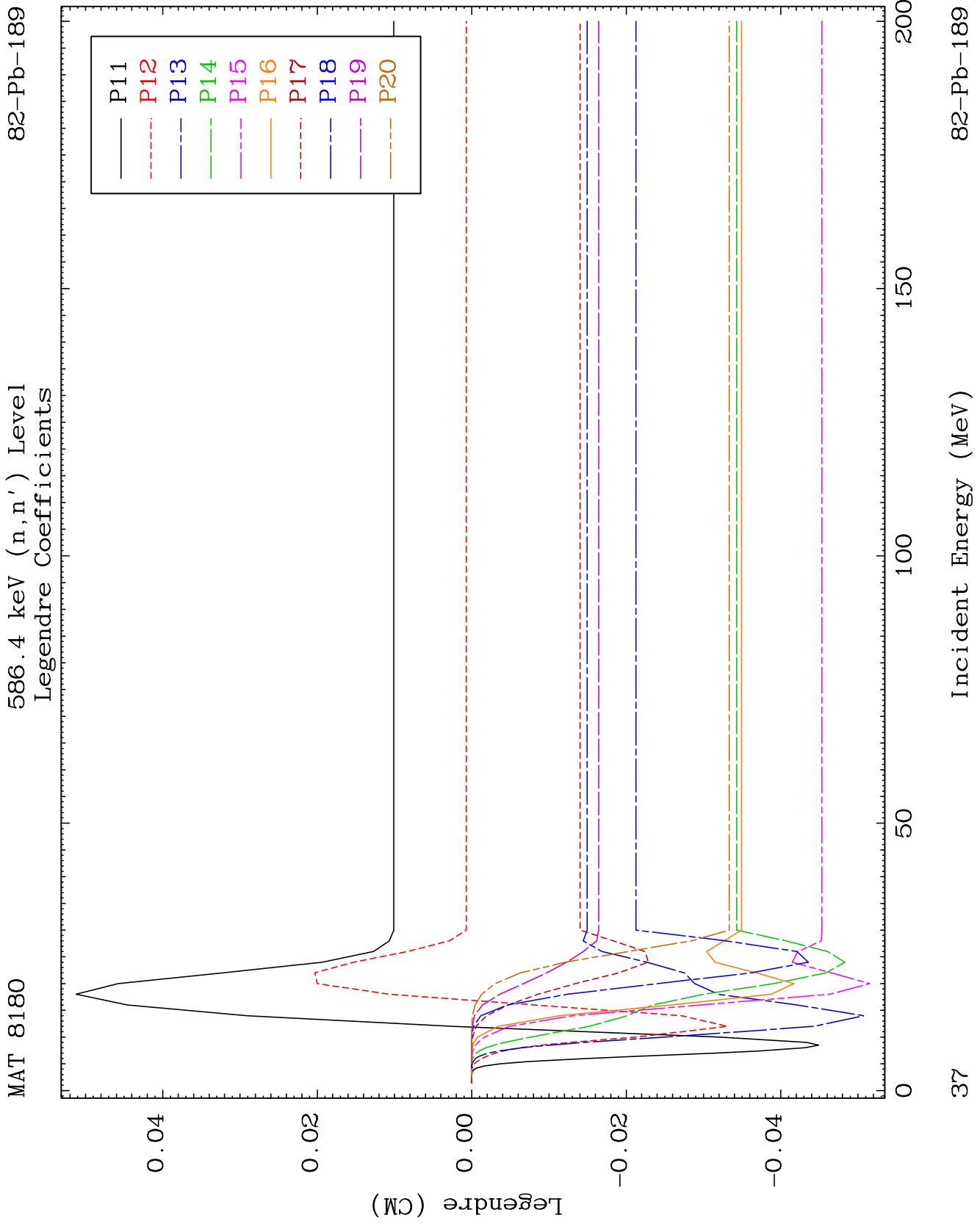
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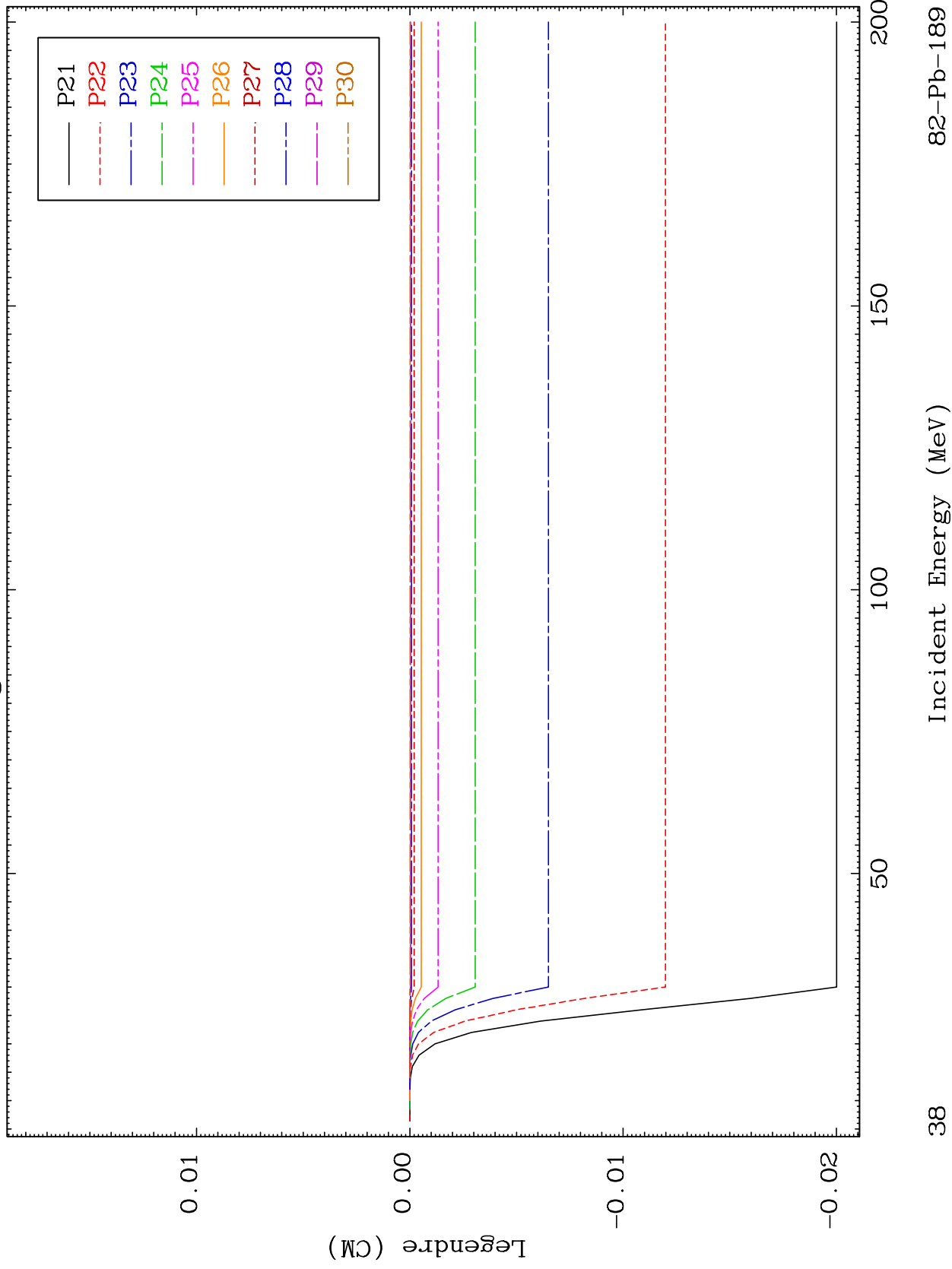
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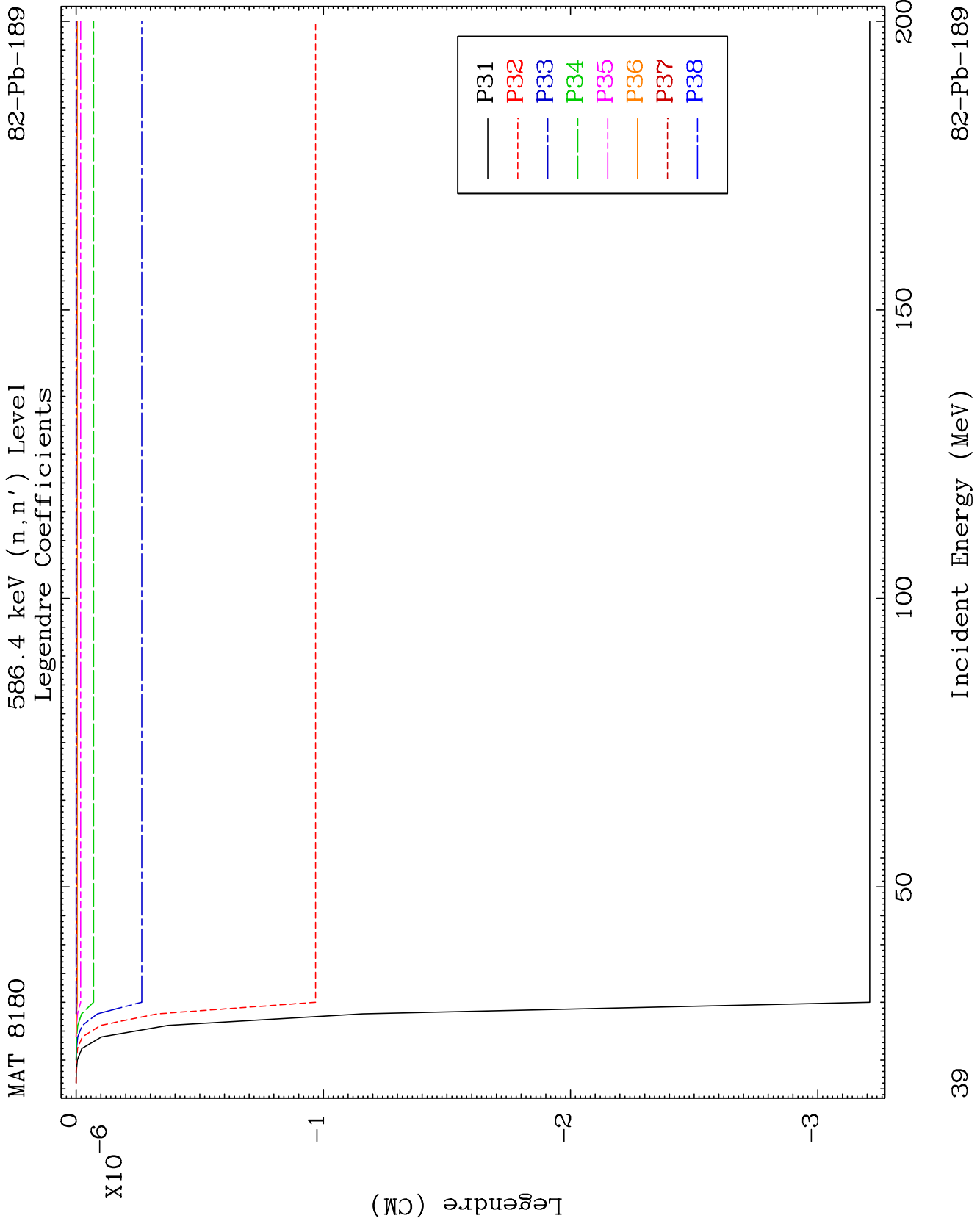


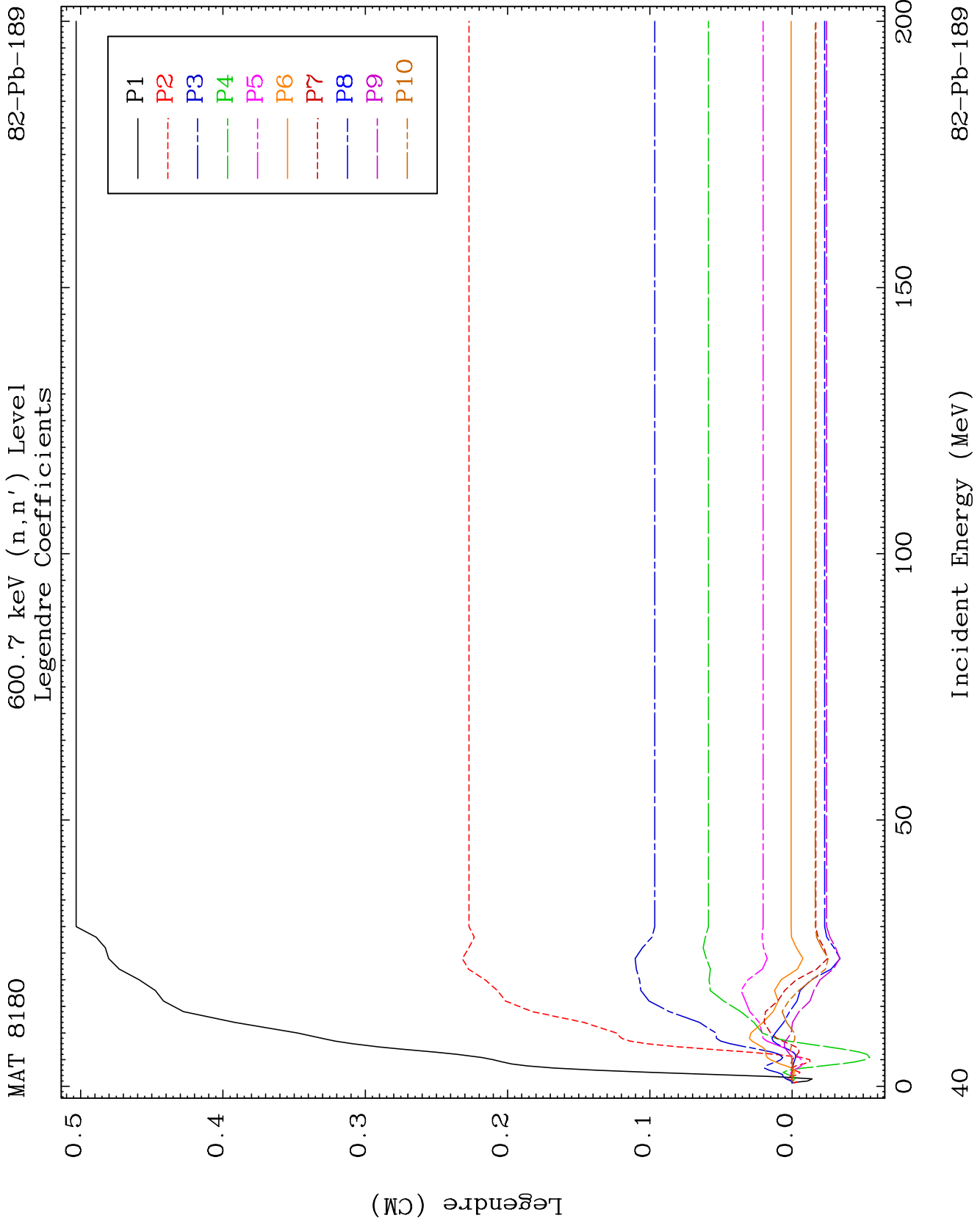








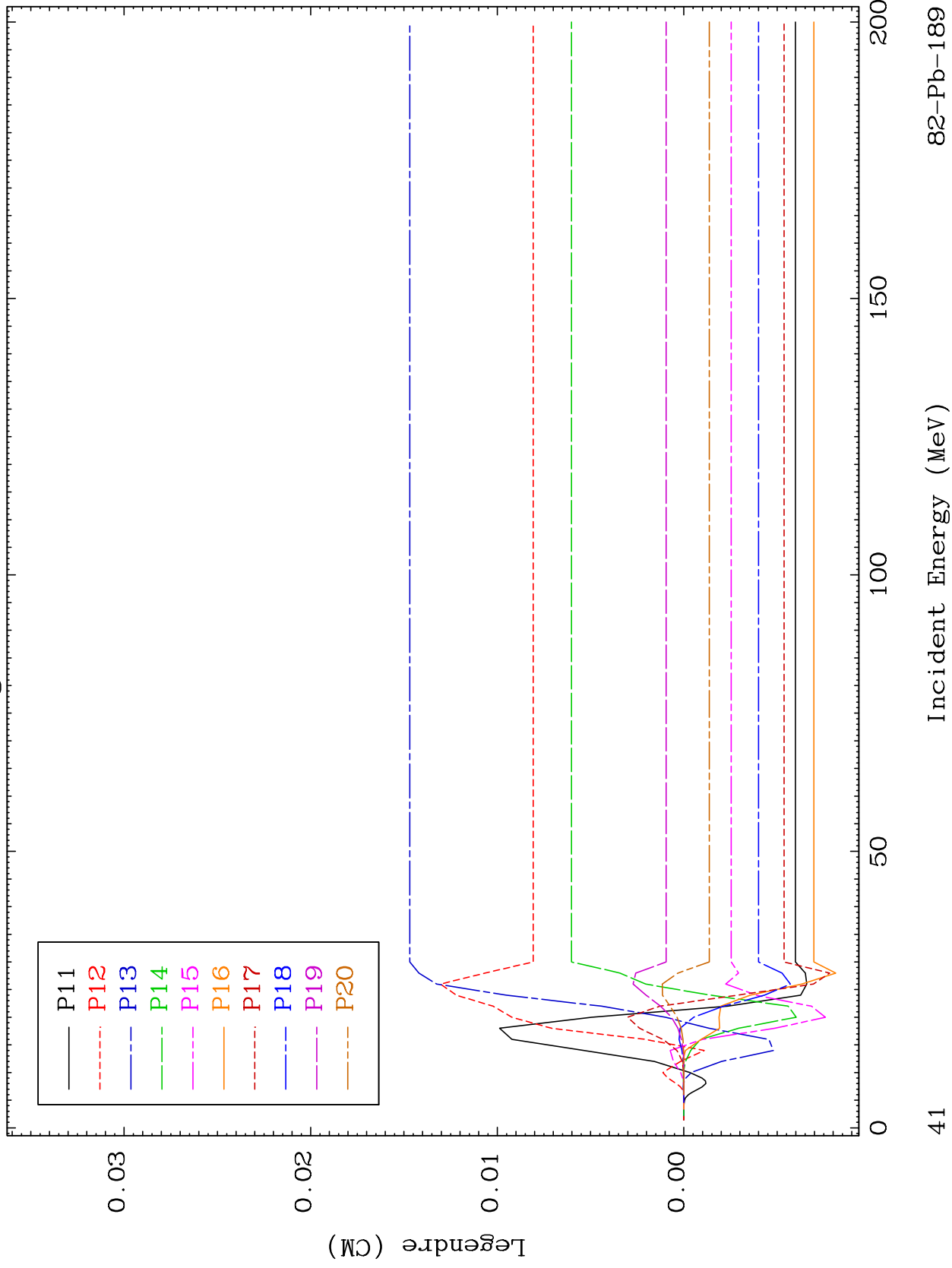




MAT 8180

600.7 keV (n,n') Level
Legendre Coefficients

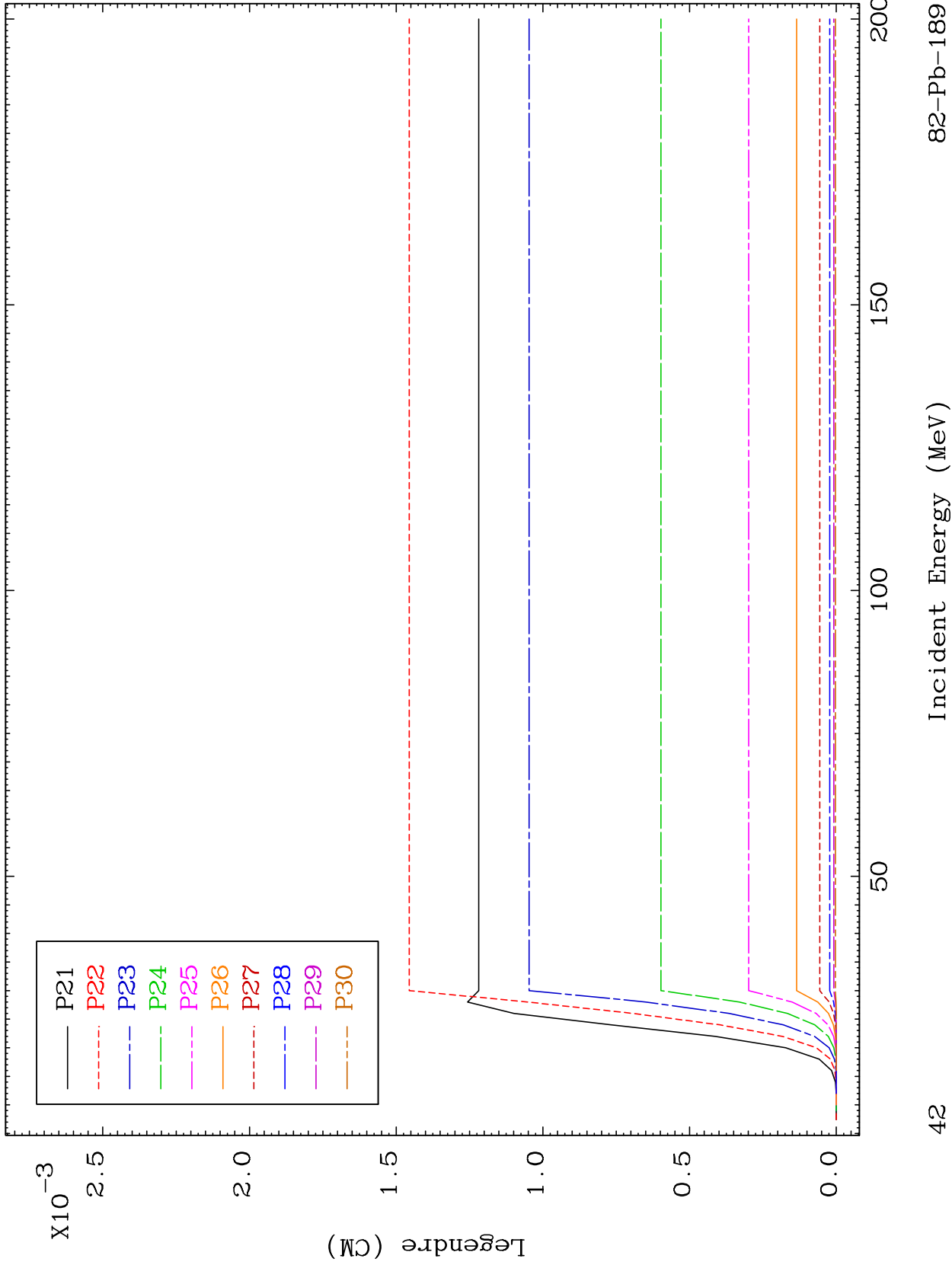
82-Pb-189

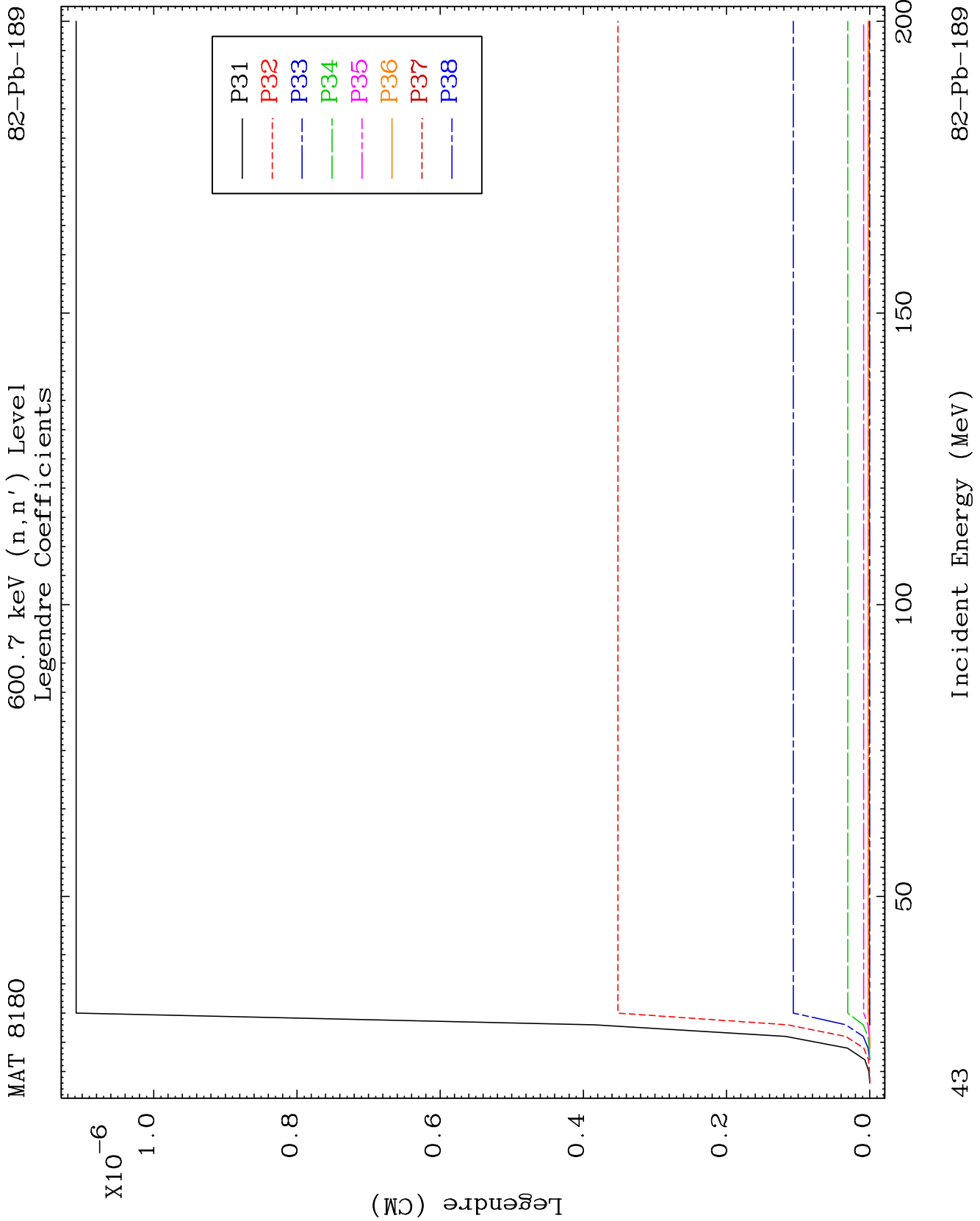


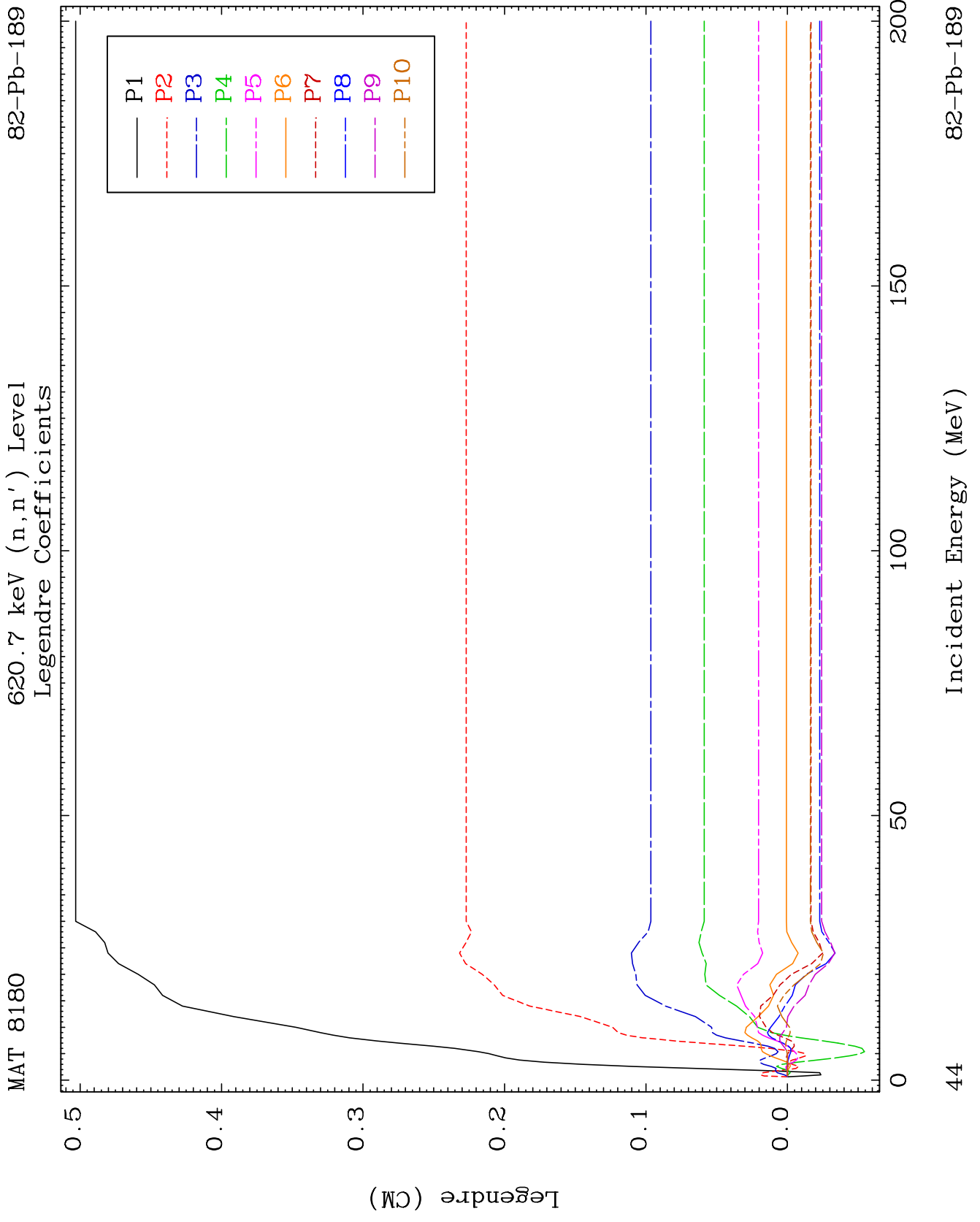
MAT 8180

600.7 keV (n,n') Level
Legendre Coefficients

82-Pb-189



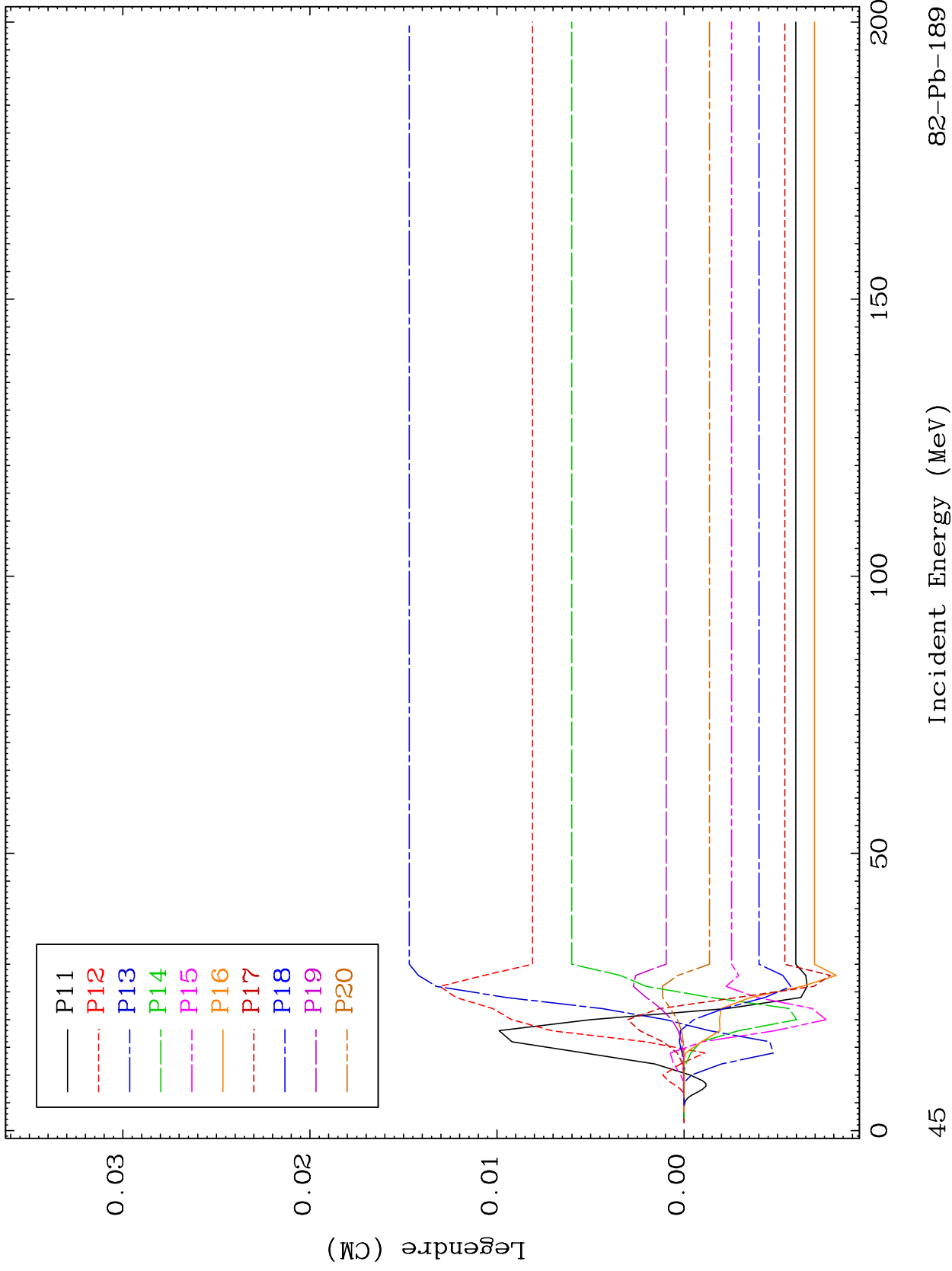




MAT 8180

620.7 keV (n,n') Level
Legendre Coefficients

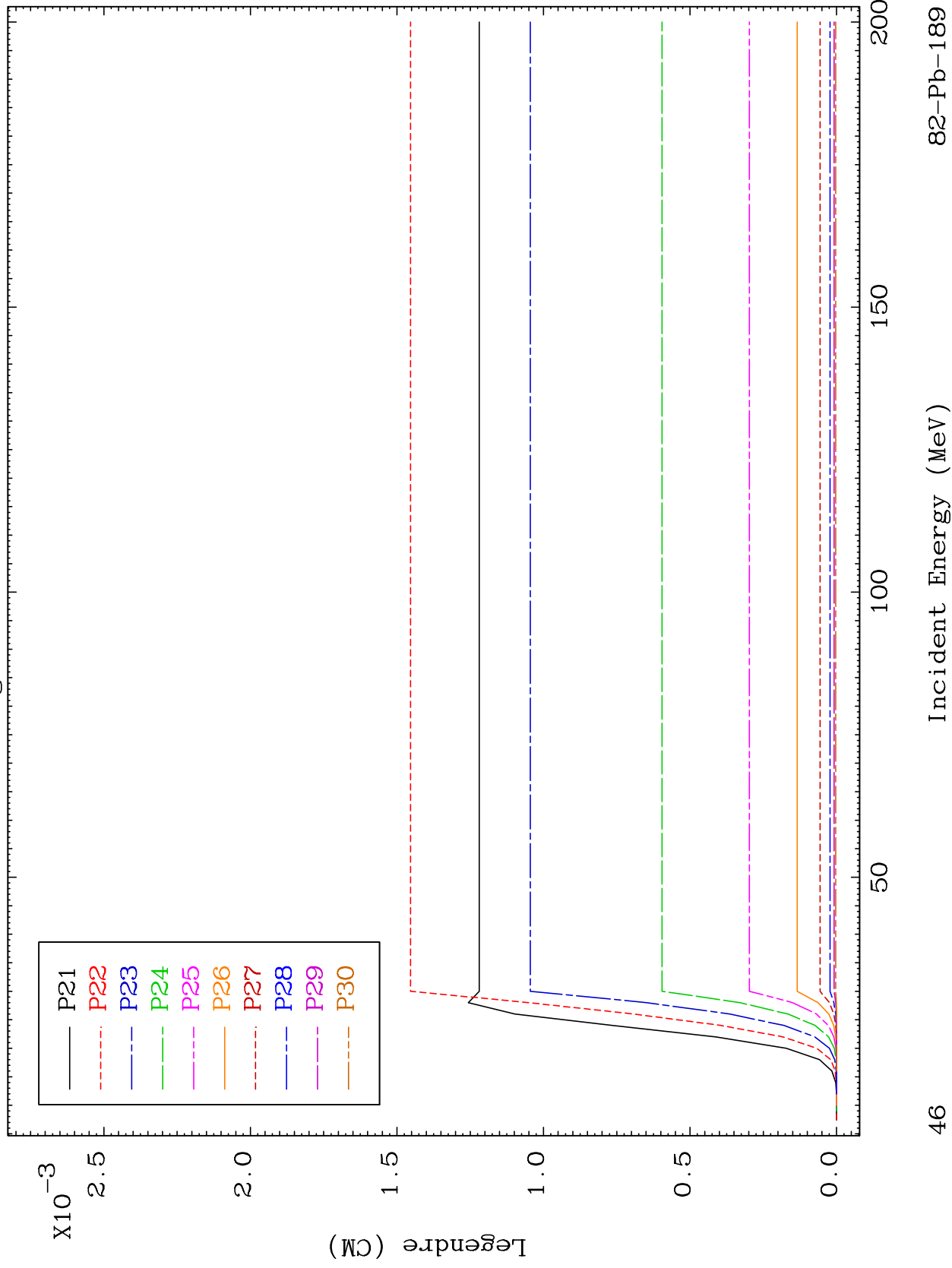
82-Pb-189

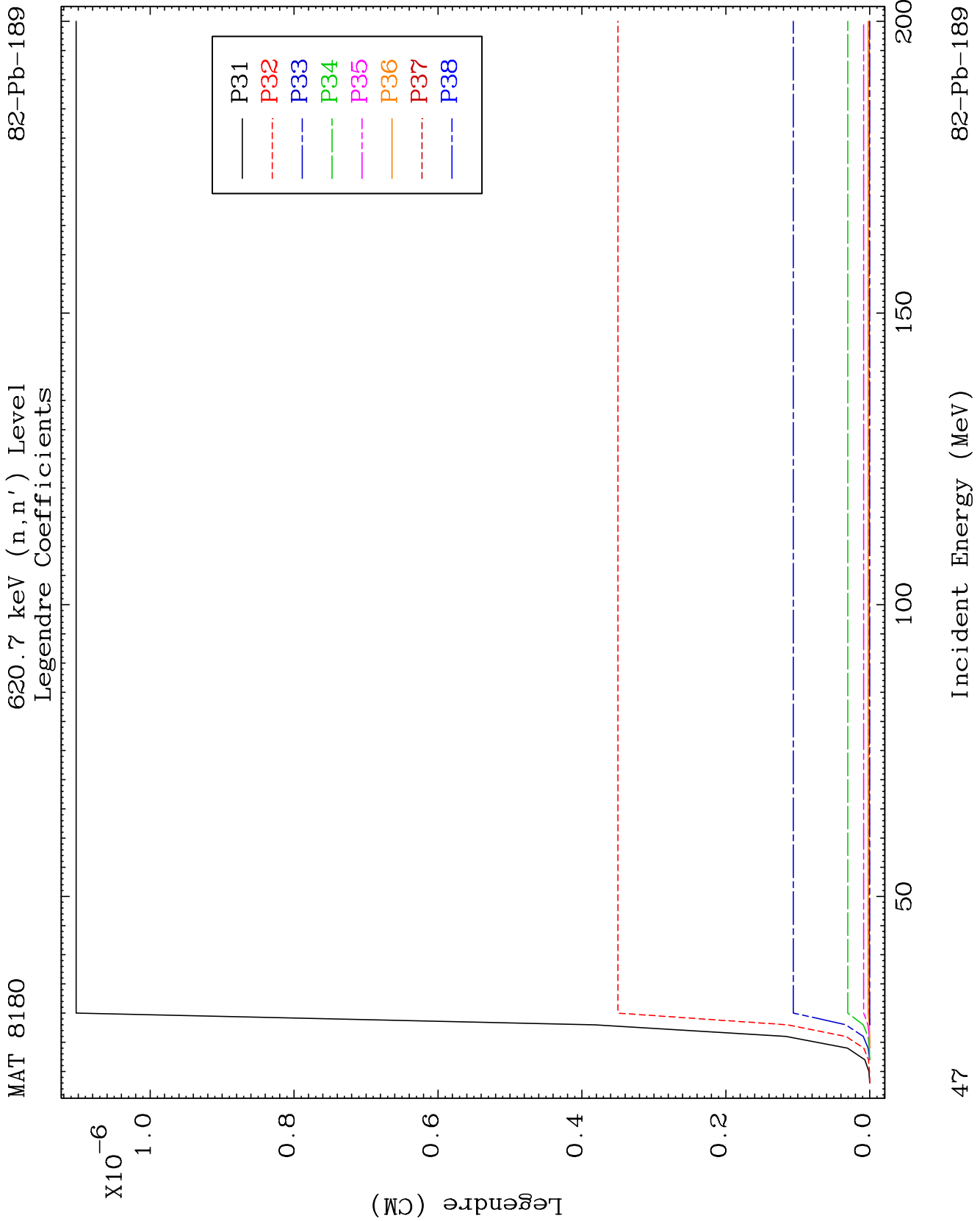


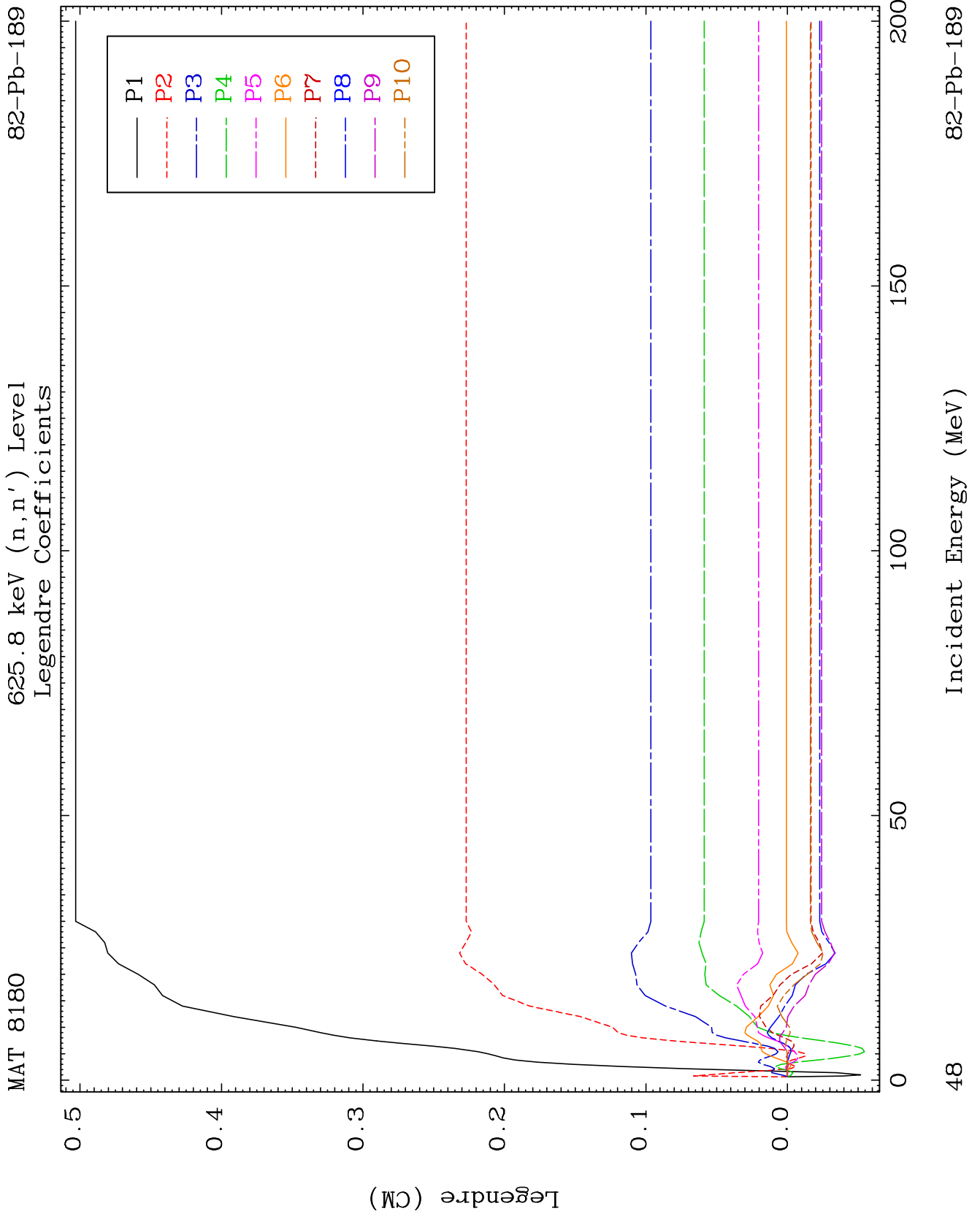
MAT 8180

620.7 keV (n,n') Level
Legendre Coefficients

82-Pb-189



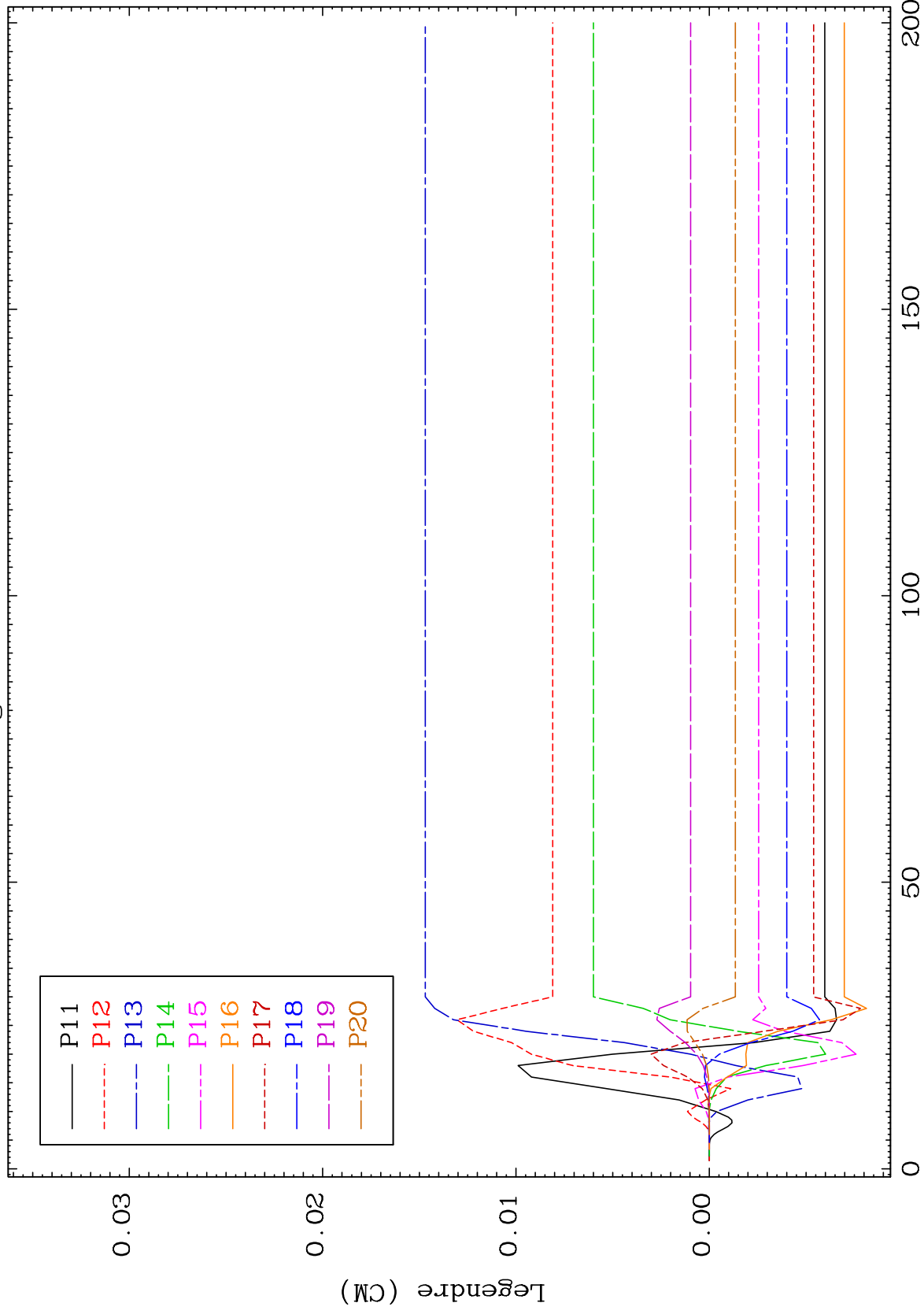




MAT 8180

625.8 keV (n,n') Level
Legendre Coefficients

82-Pb-189



49

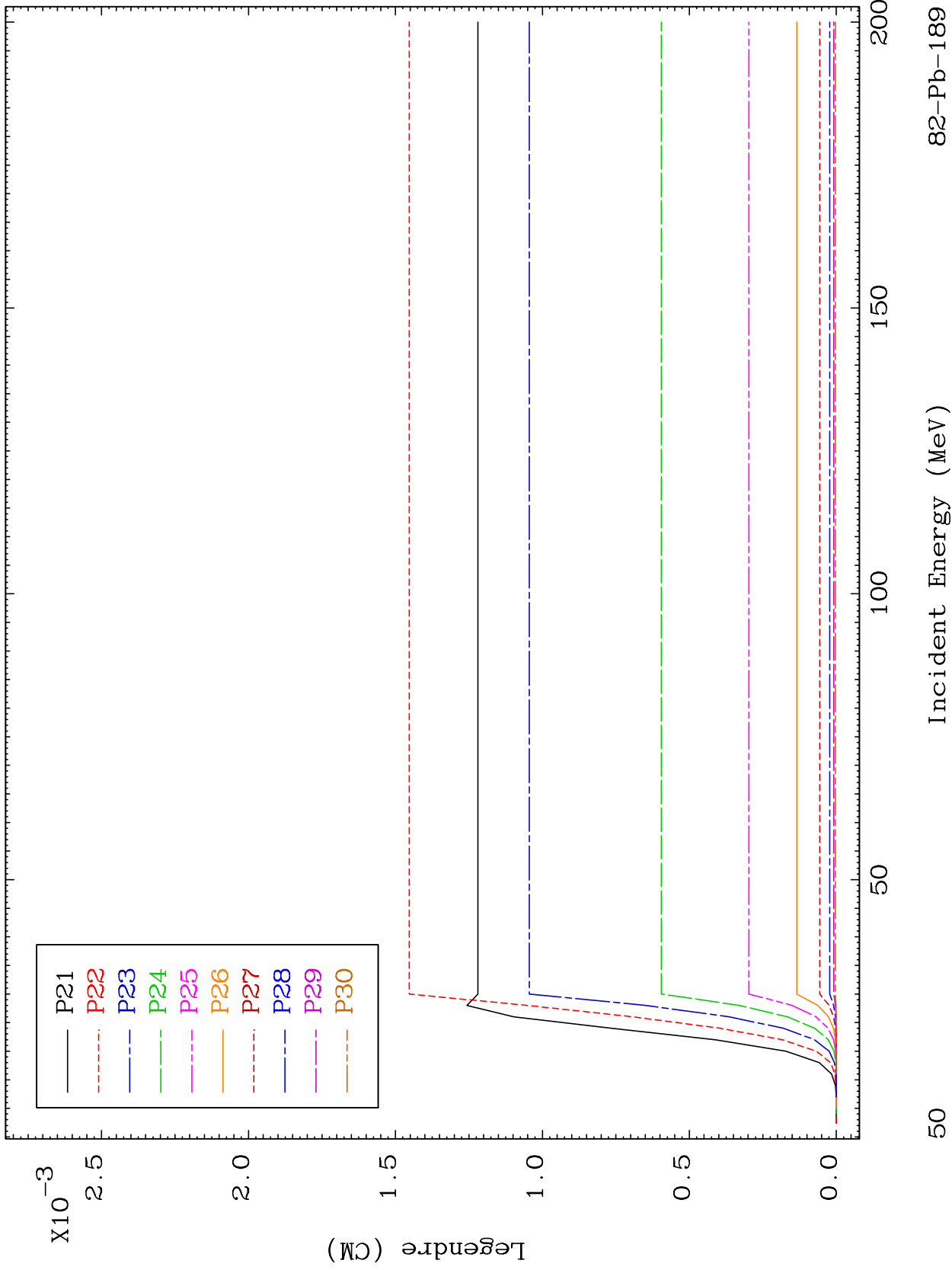
Incident Energy (MeV)

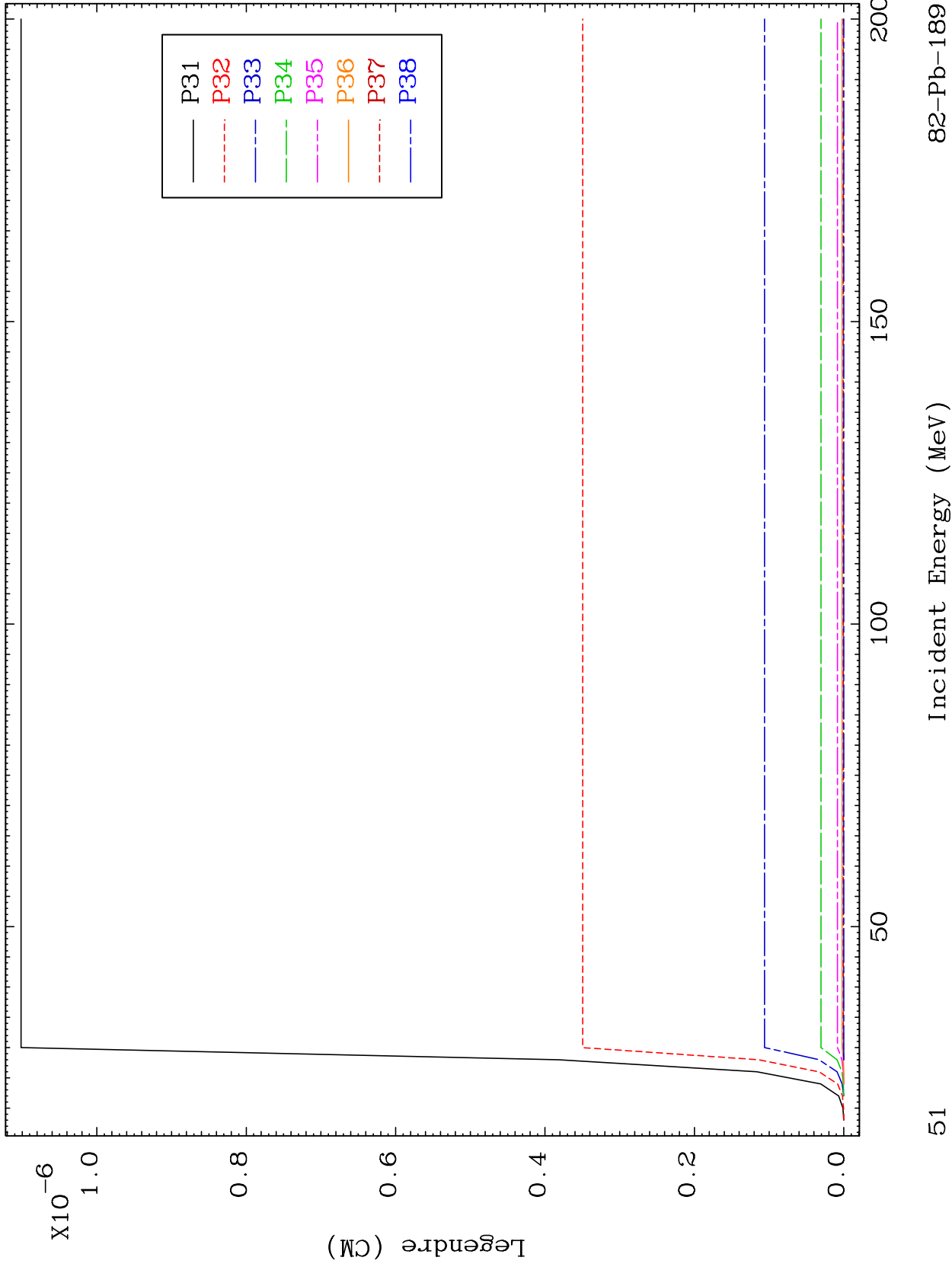
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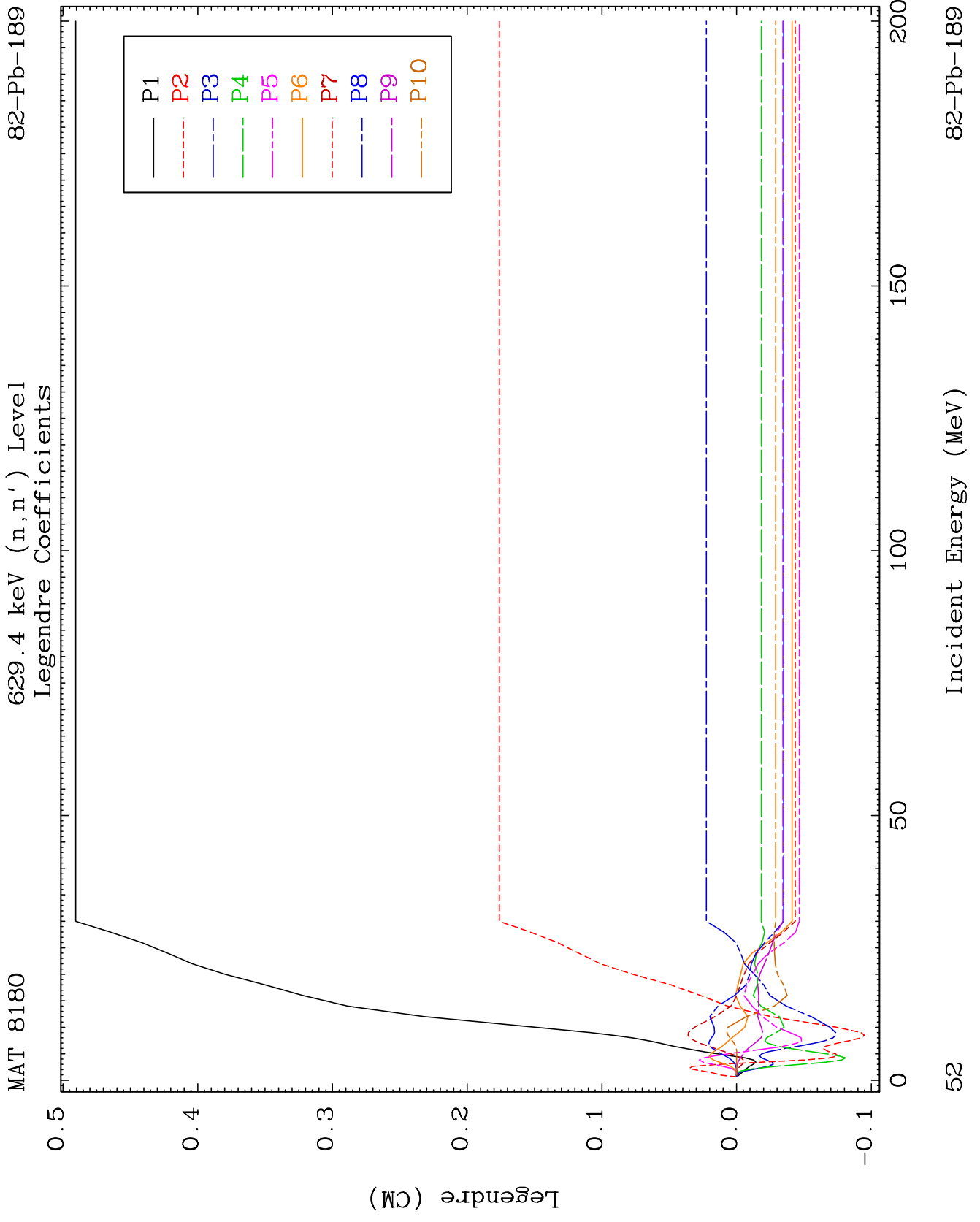
MAT 8180

625.8 keV (n,n') Level
Legendre Coefficients

82-Pb-189



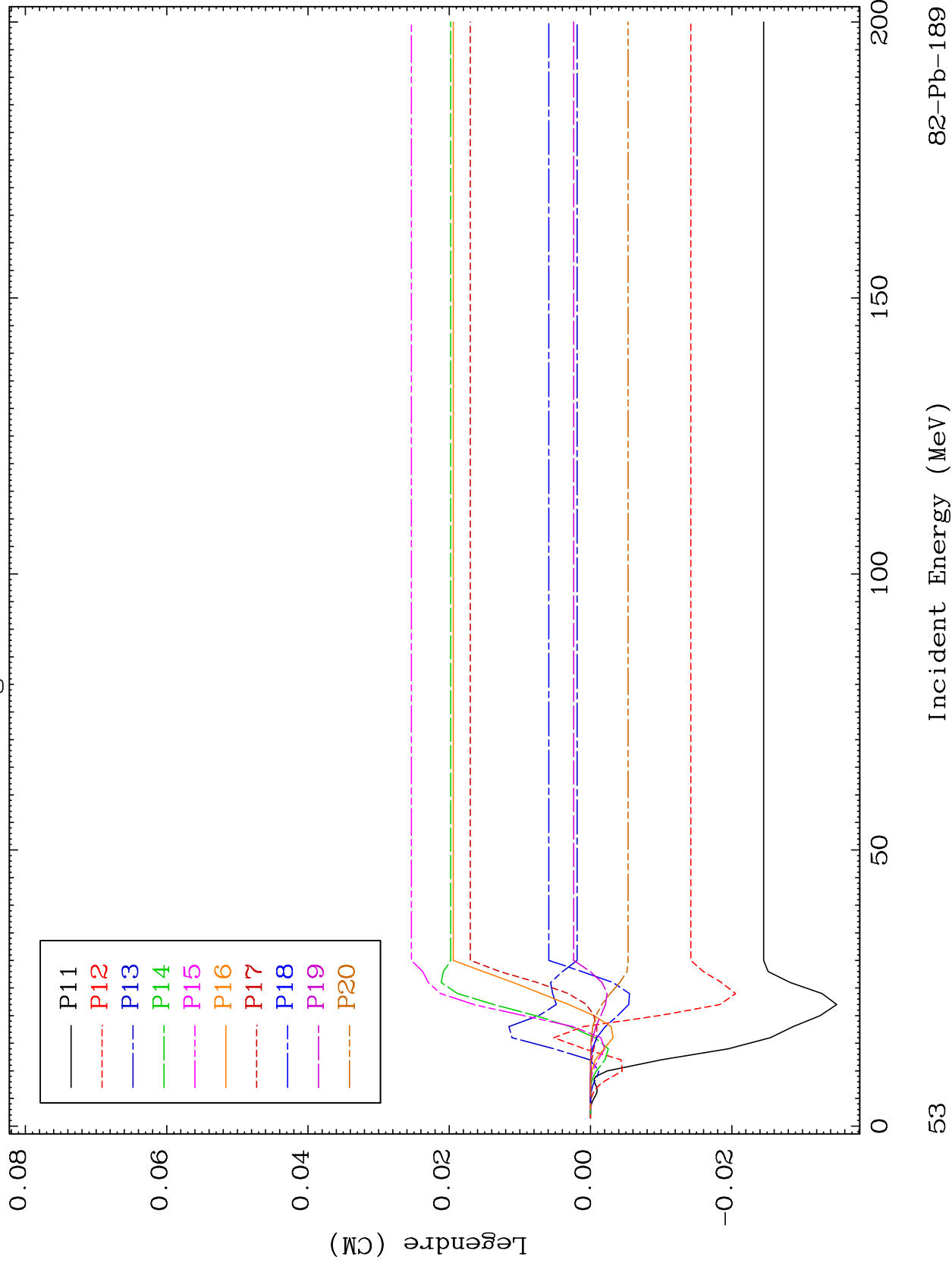




MAT 8180

629.4 keV (n,n') Level
Legendre Coefficients

82-Pb-189



53

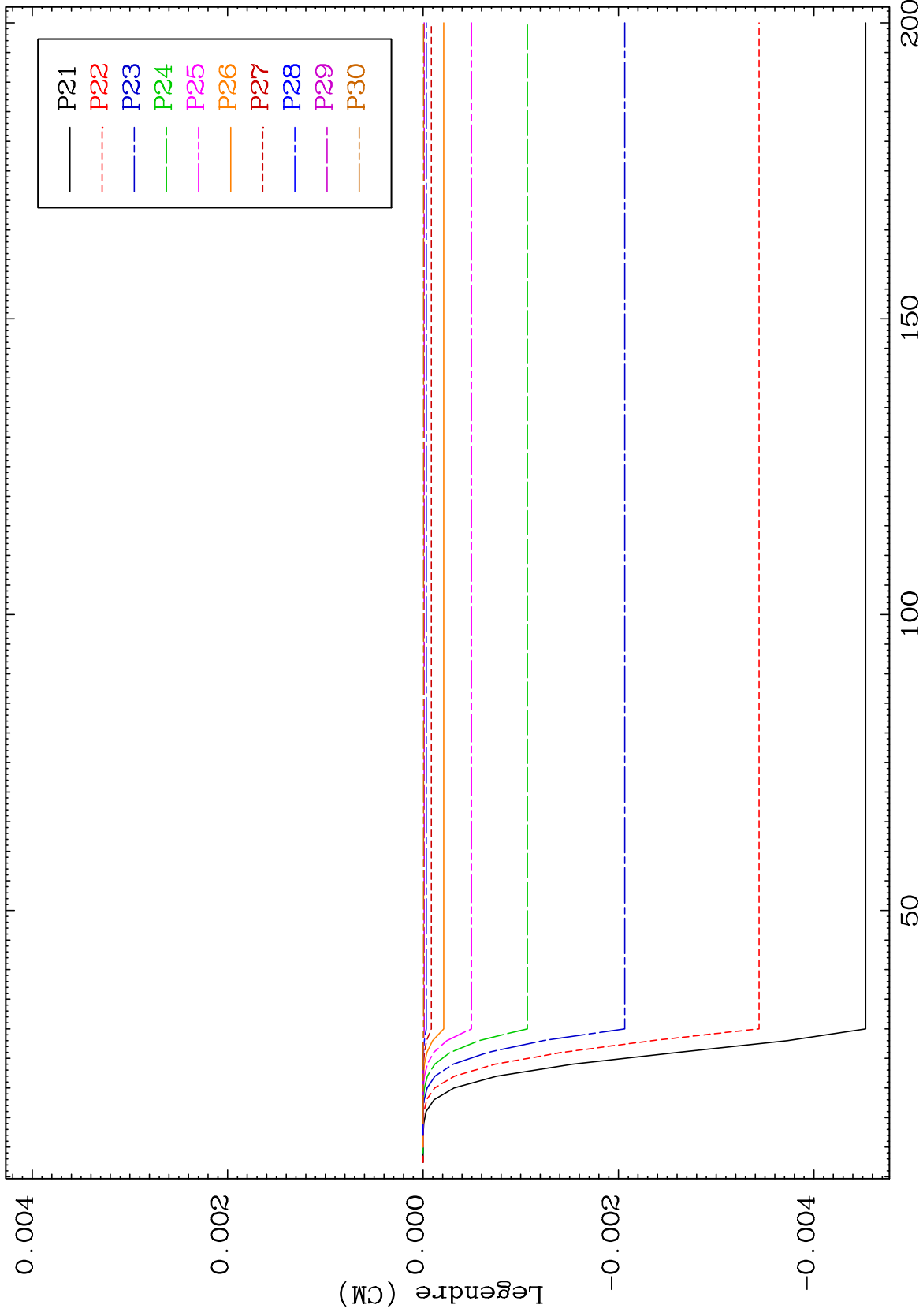
Incident Energy (MeV)

82-Pb-189

MAT 8180

629.4 keV (n,n') Level
Legendre Coefficients

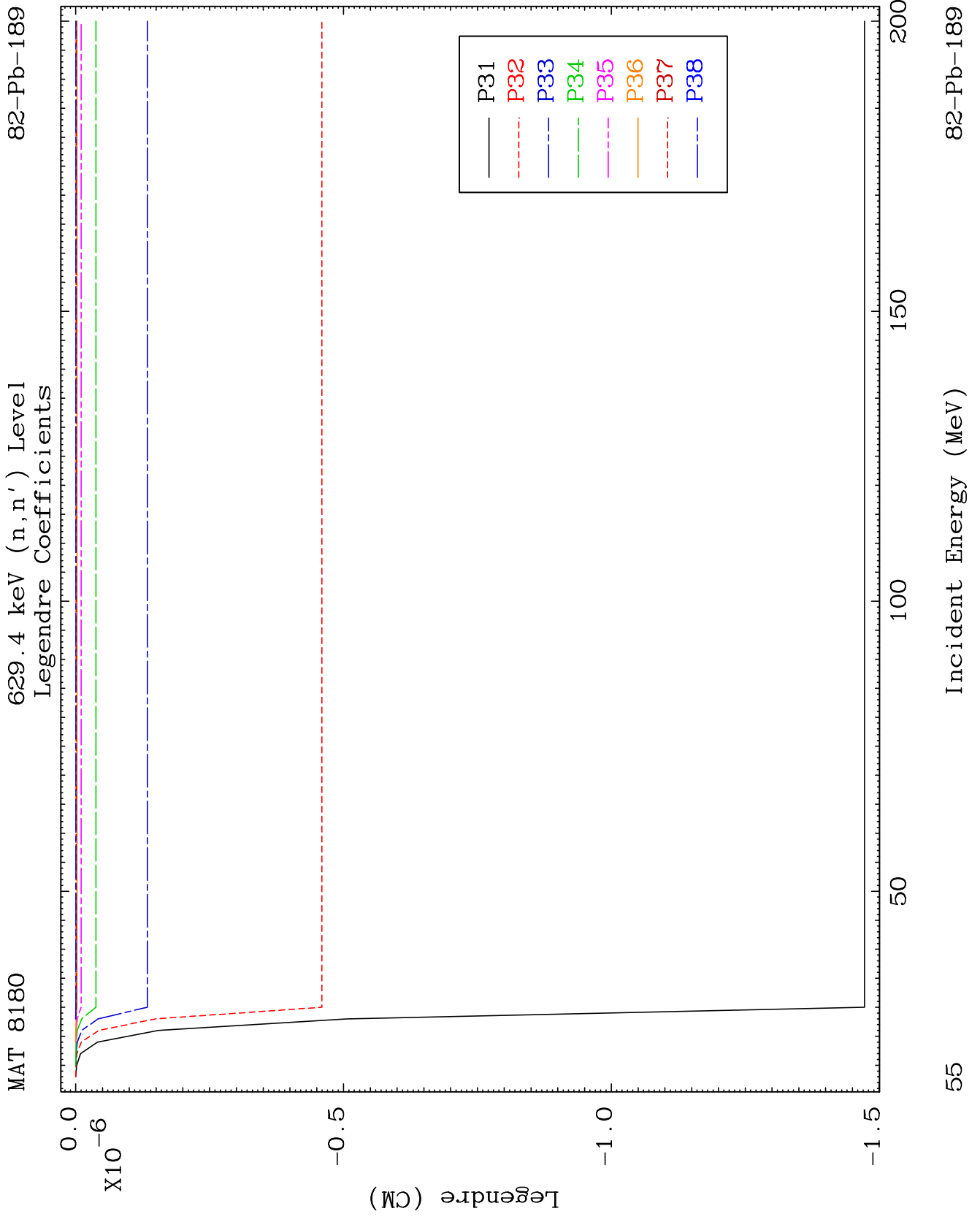
82-Pb-189



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Incident Energy (MeV)

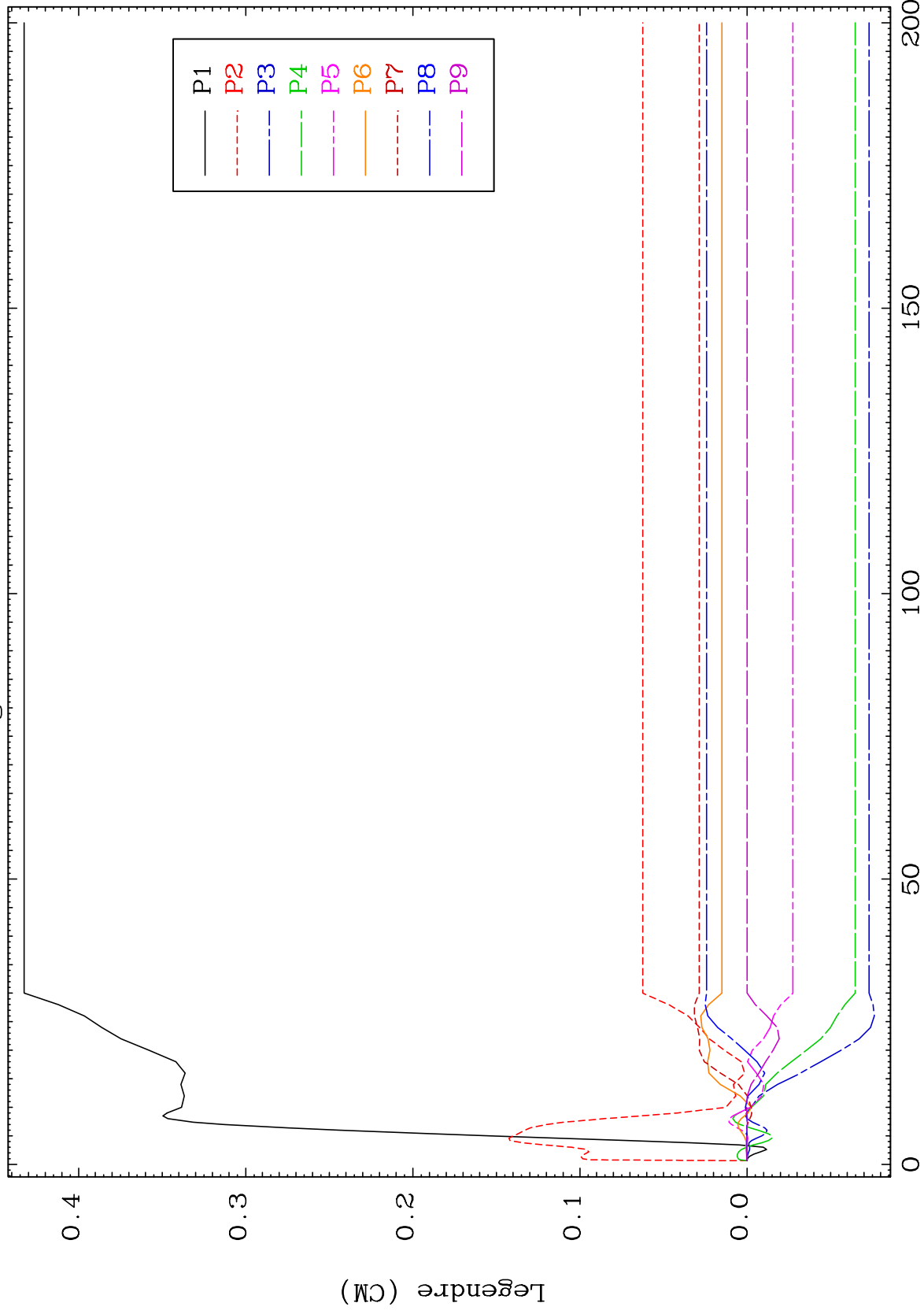
82-Pb-189



MAT 8180

639.8 keV (n,n') Level
Legendre Coefficients

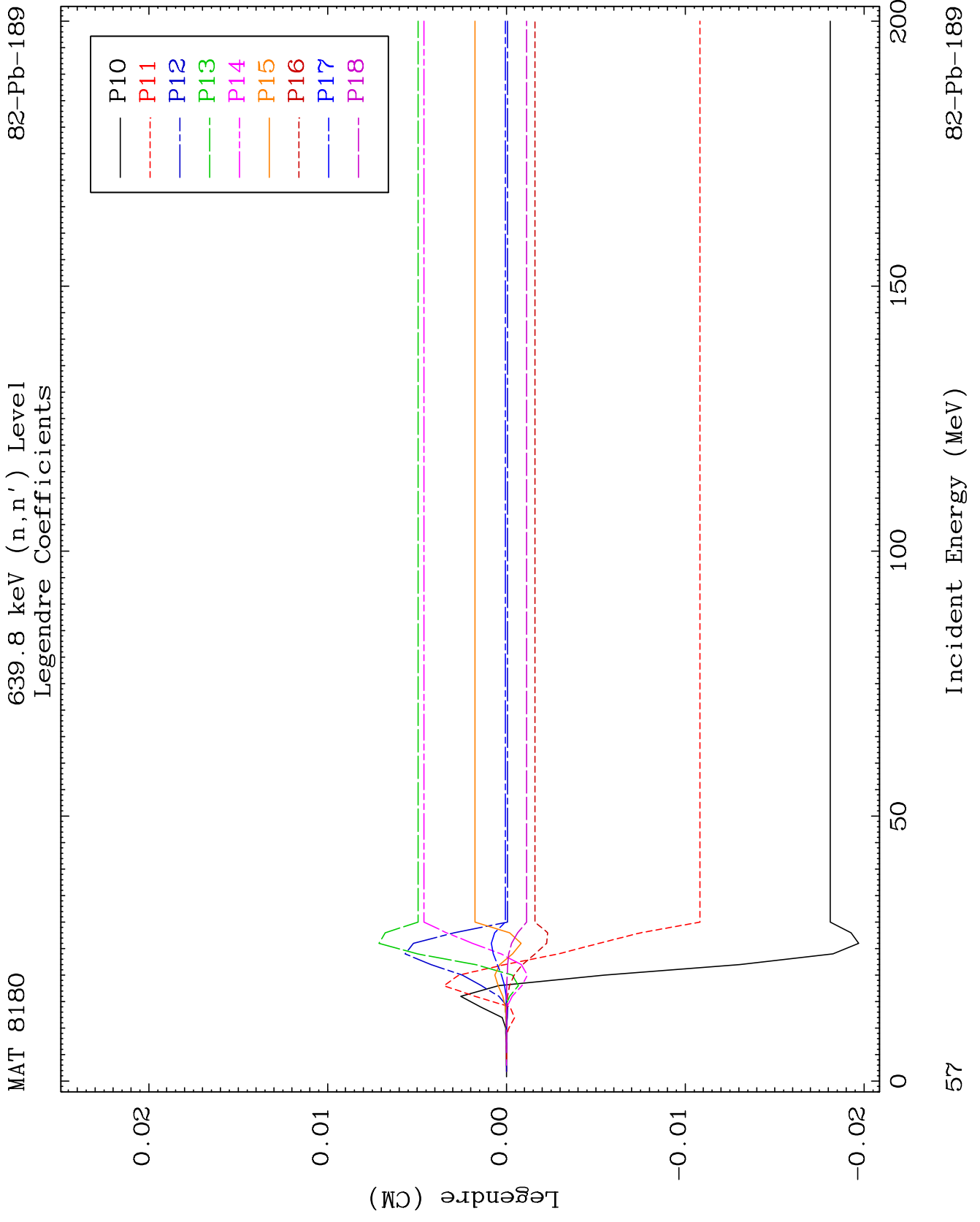
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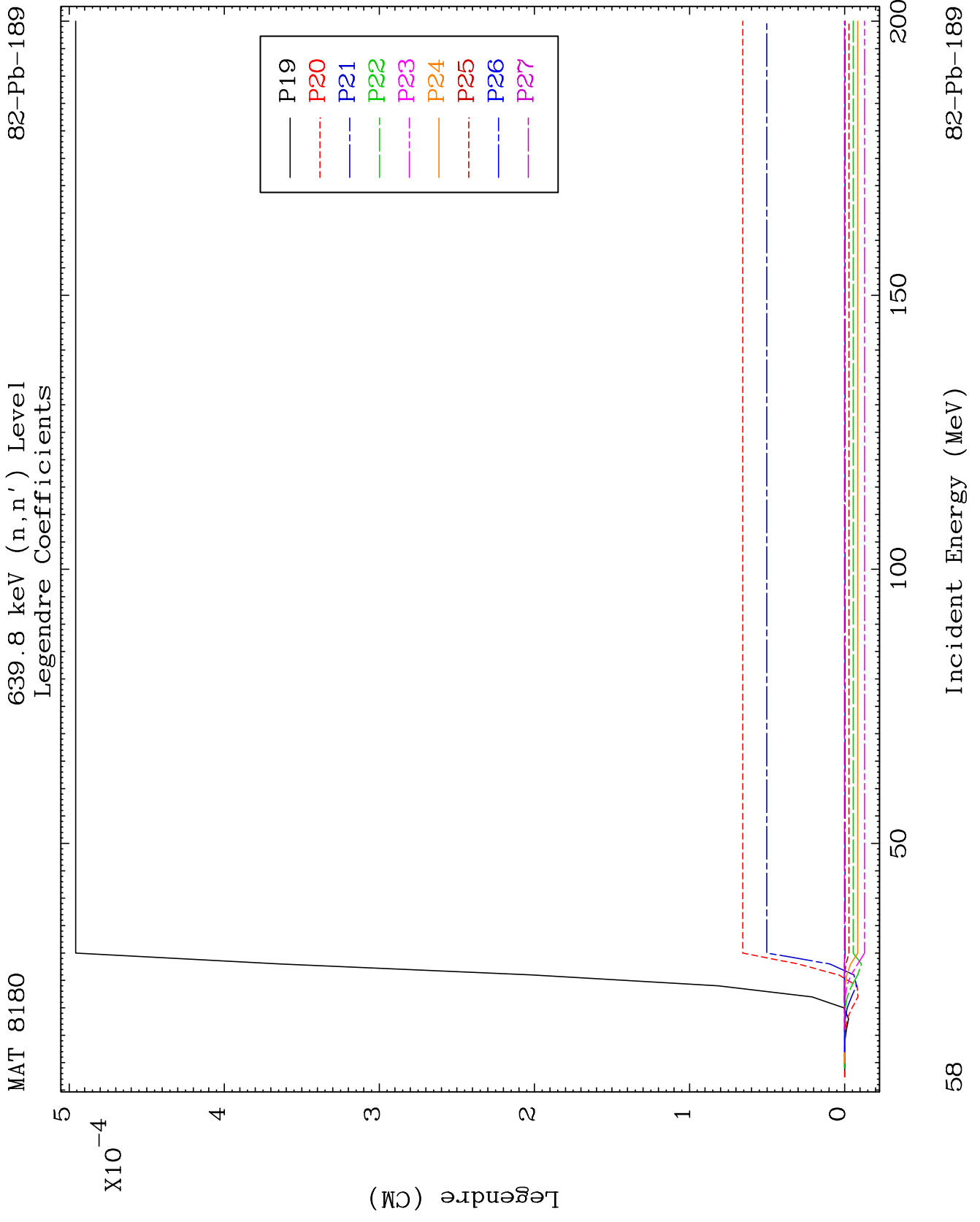


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Incident Energy (MeV)

82-Pb-189

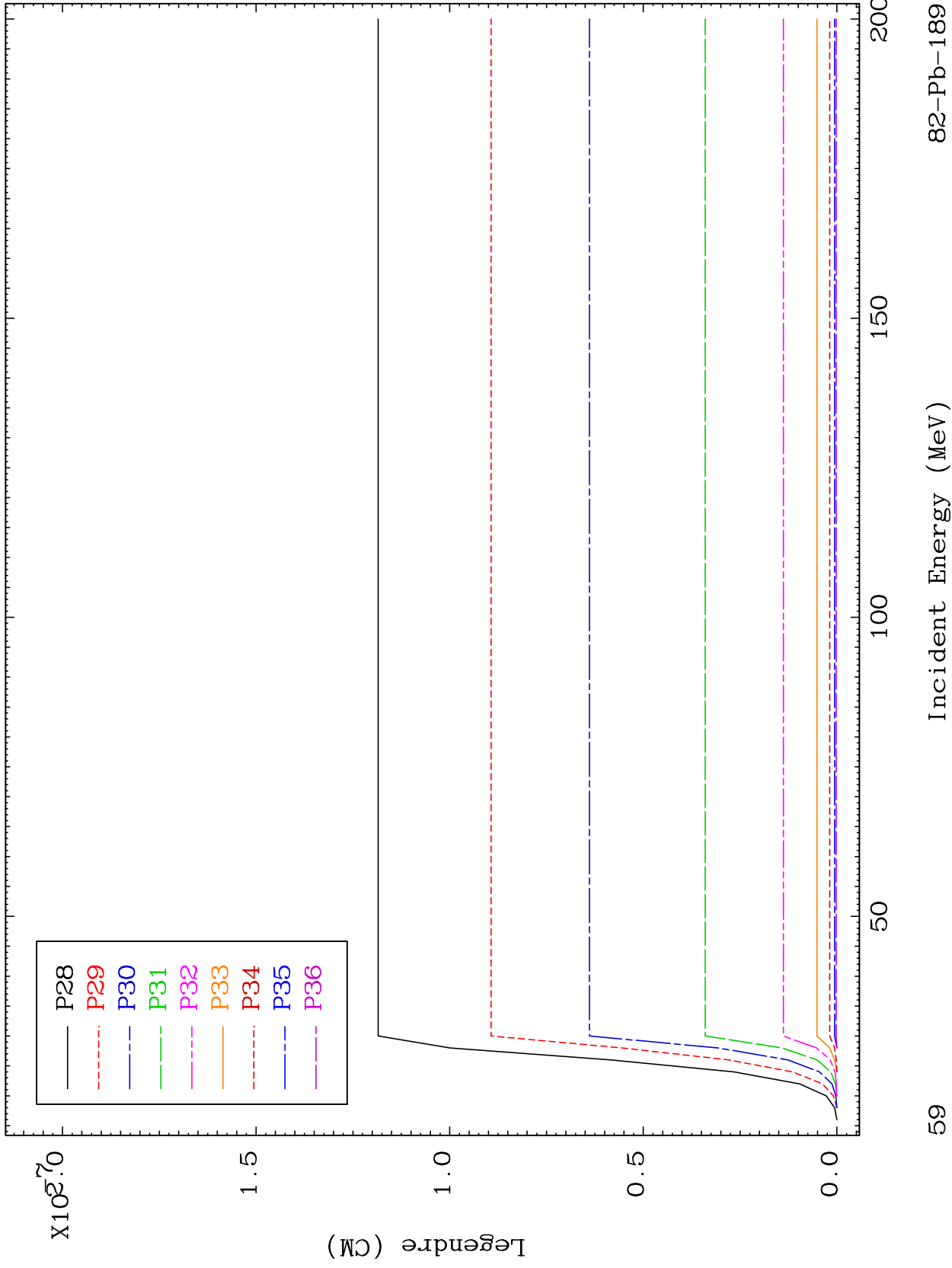




MAT 8180

639.8 keV (n,n') Level
Legendre Coefficients

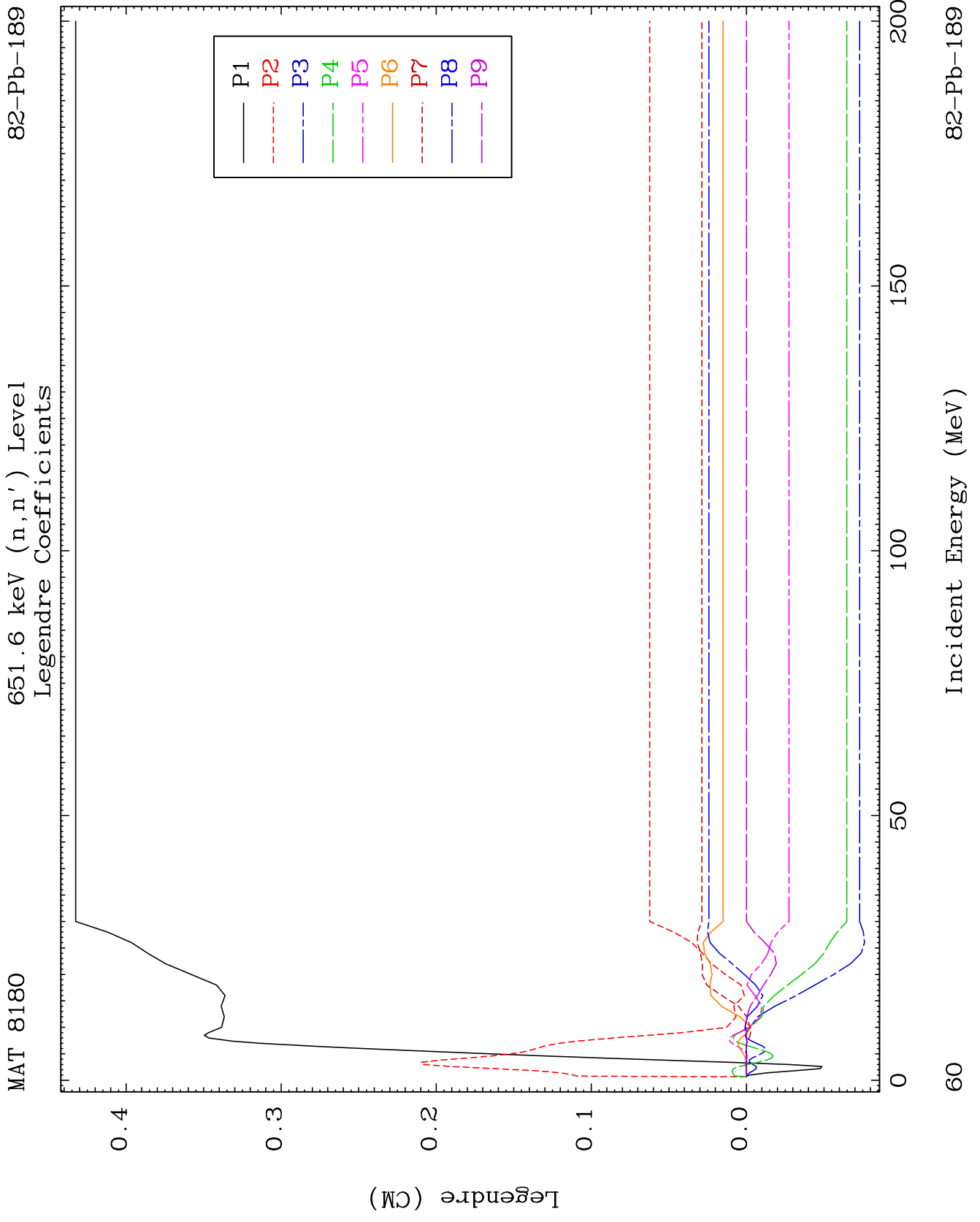
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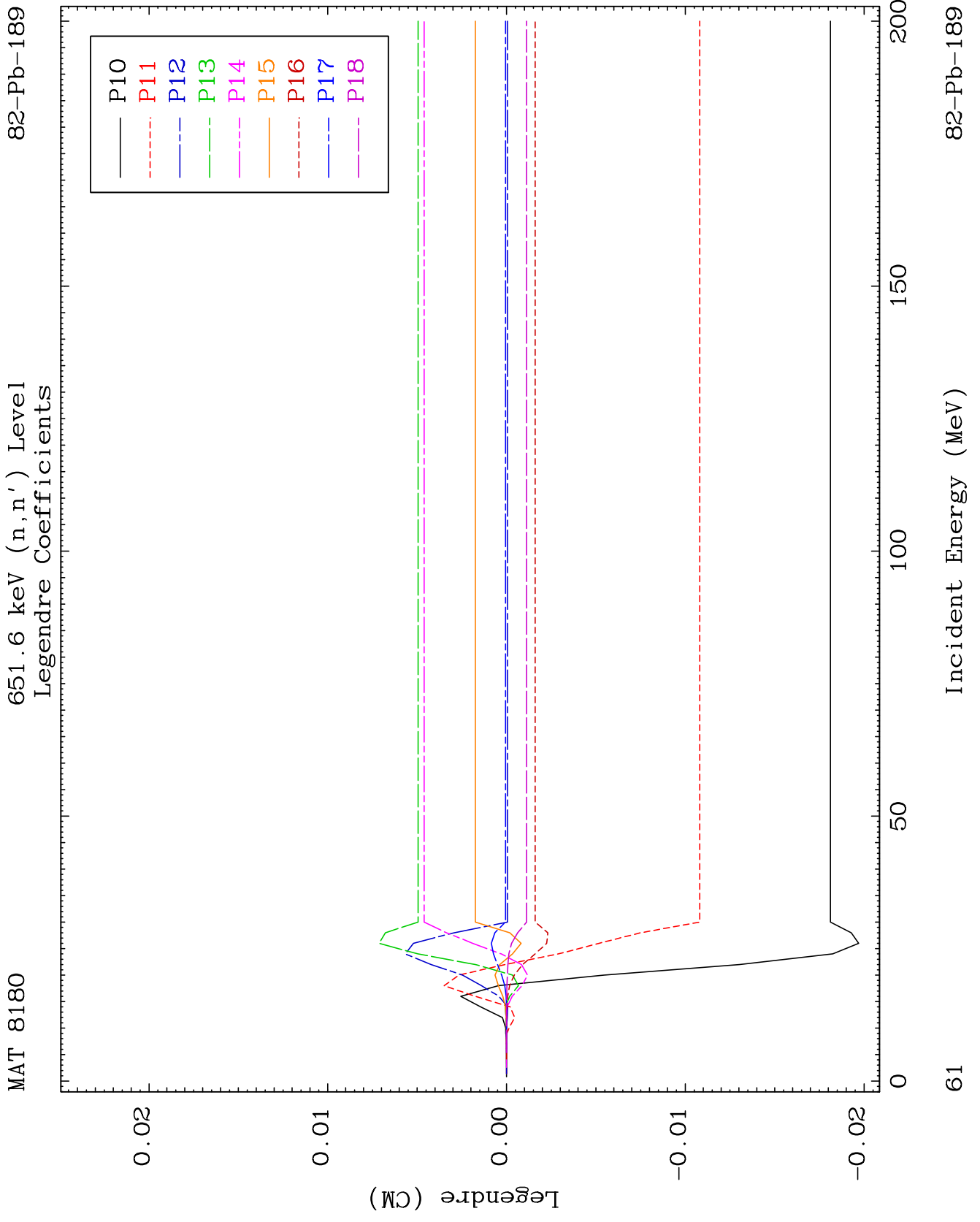


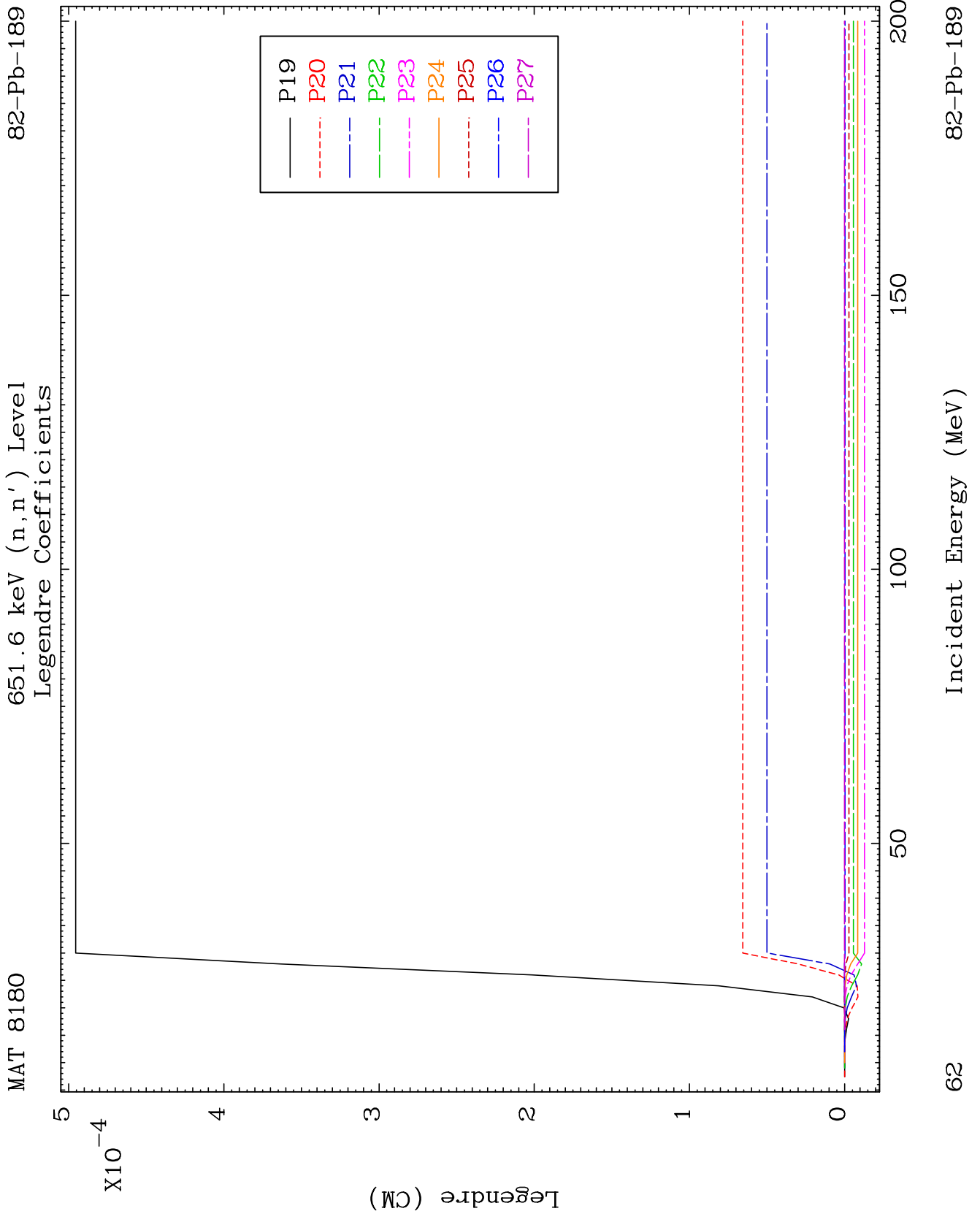
59

Incident Energy (MeV)

82-Pb-189



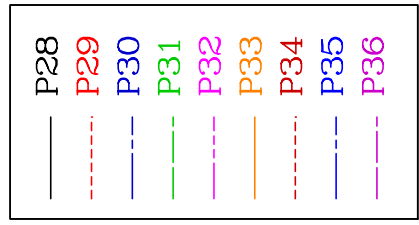




MAT 8180

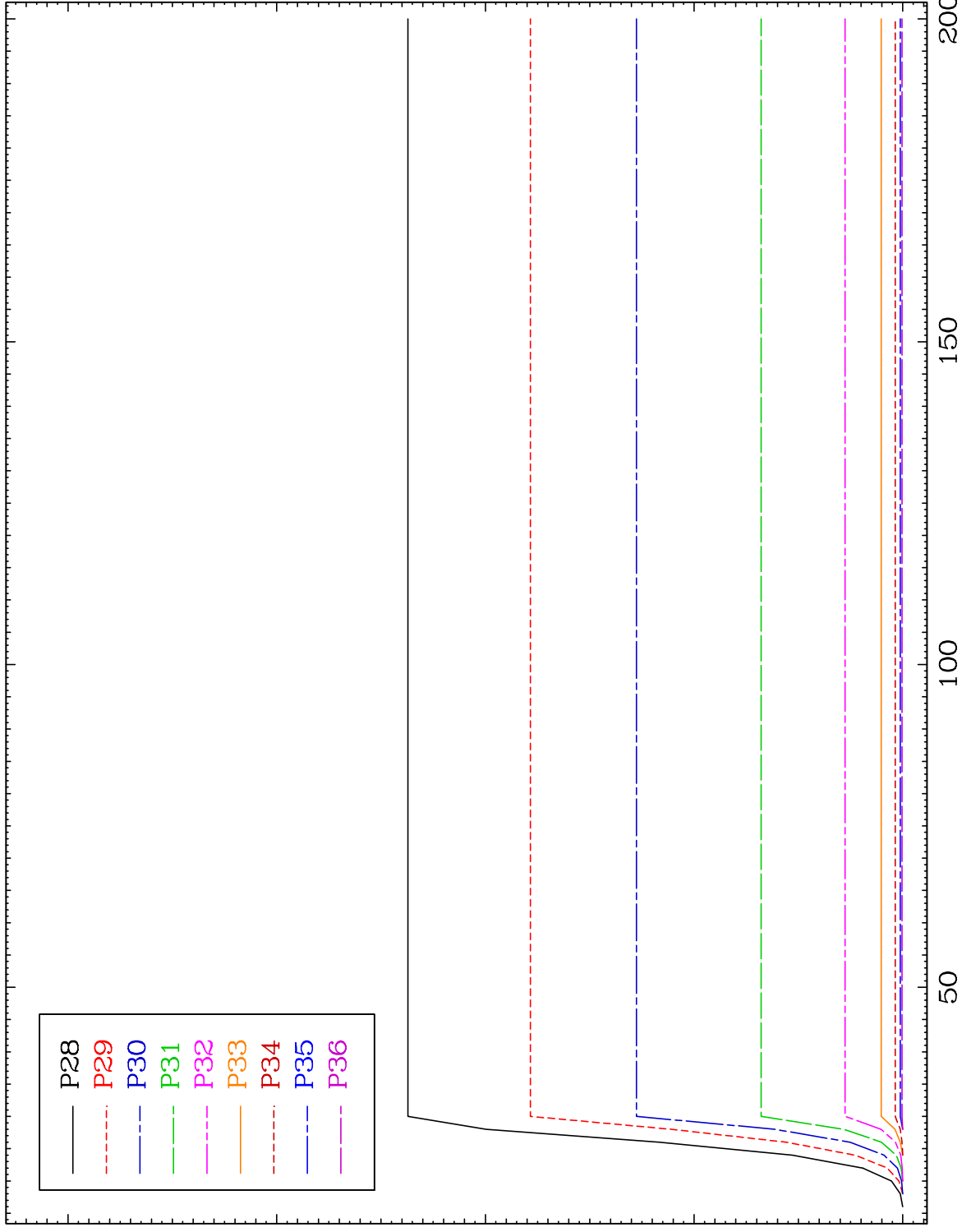
651.6 keV (n,n') Level
Legendre Coefficients

82-Pb-189



$\times 10^{-7}$

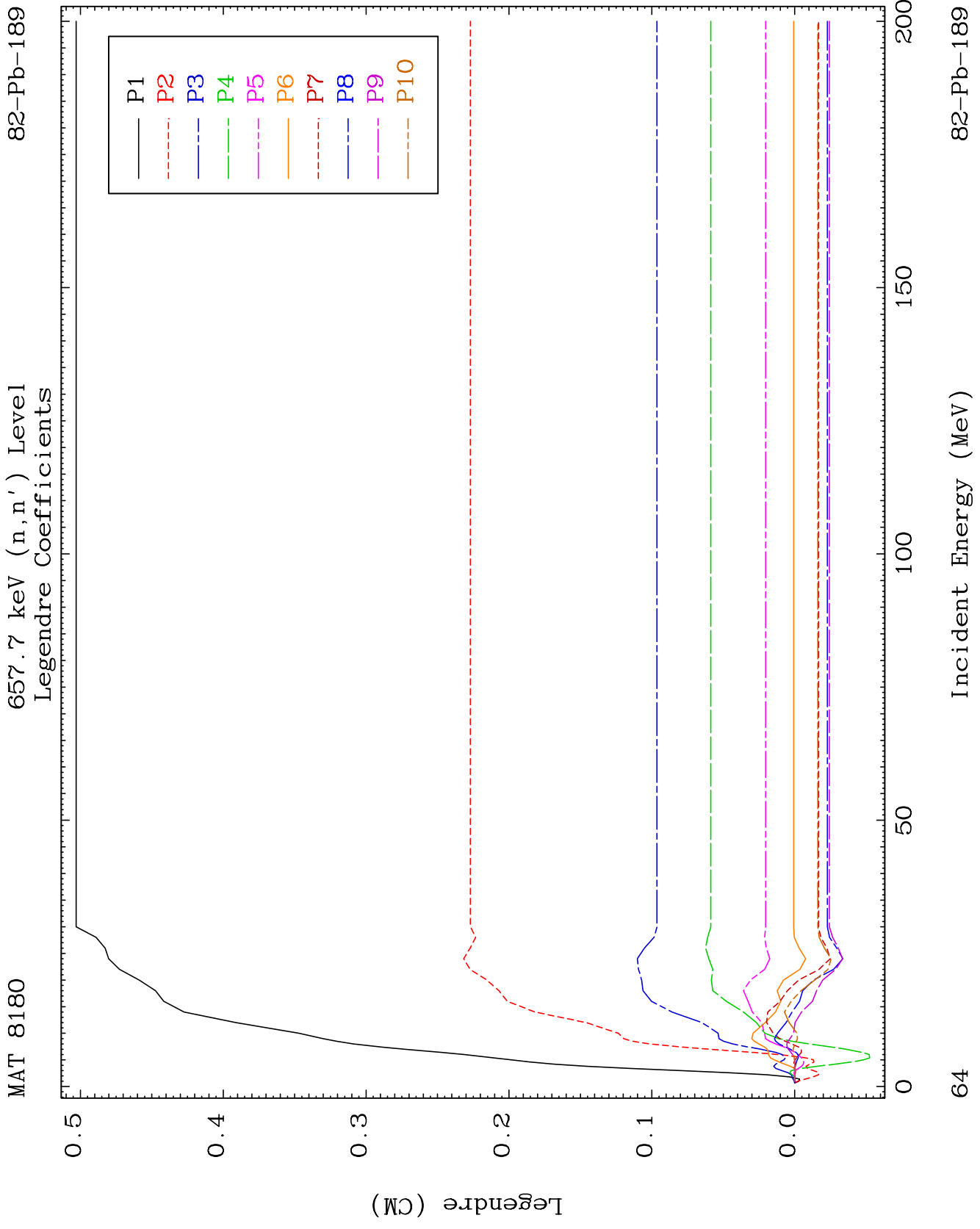
Legendre (CM)



63

Incident Energy (MeV)

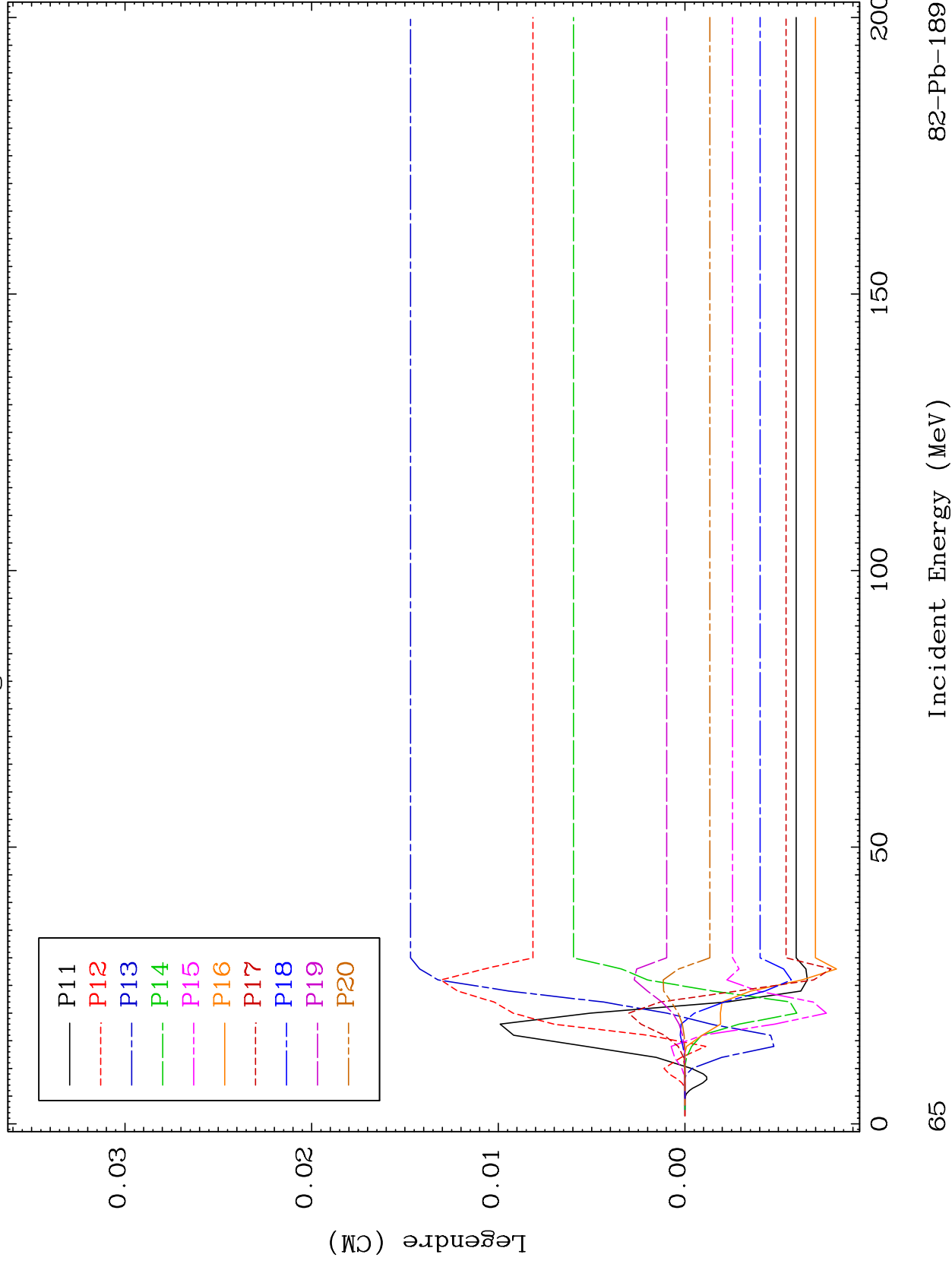
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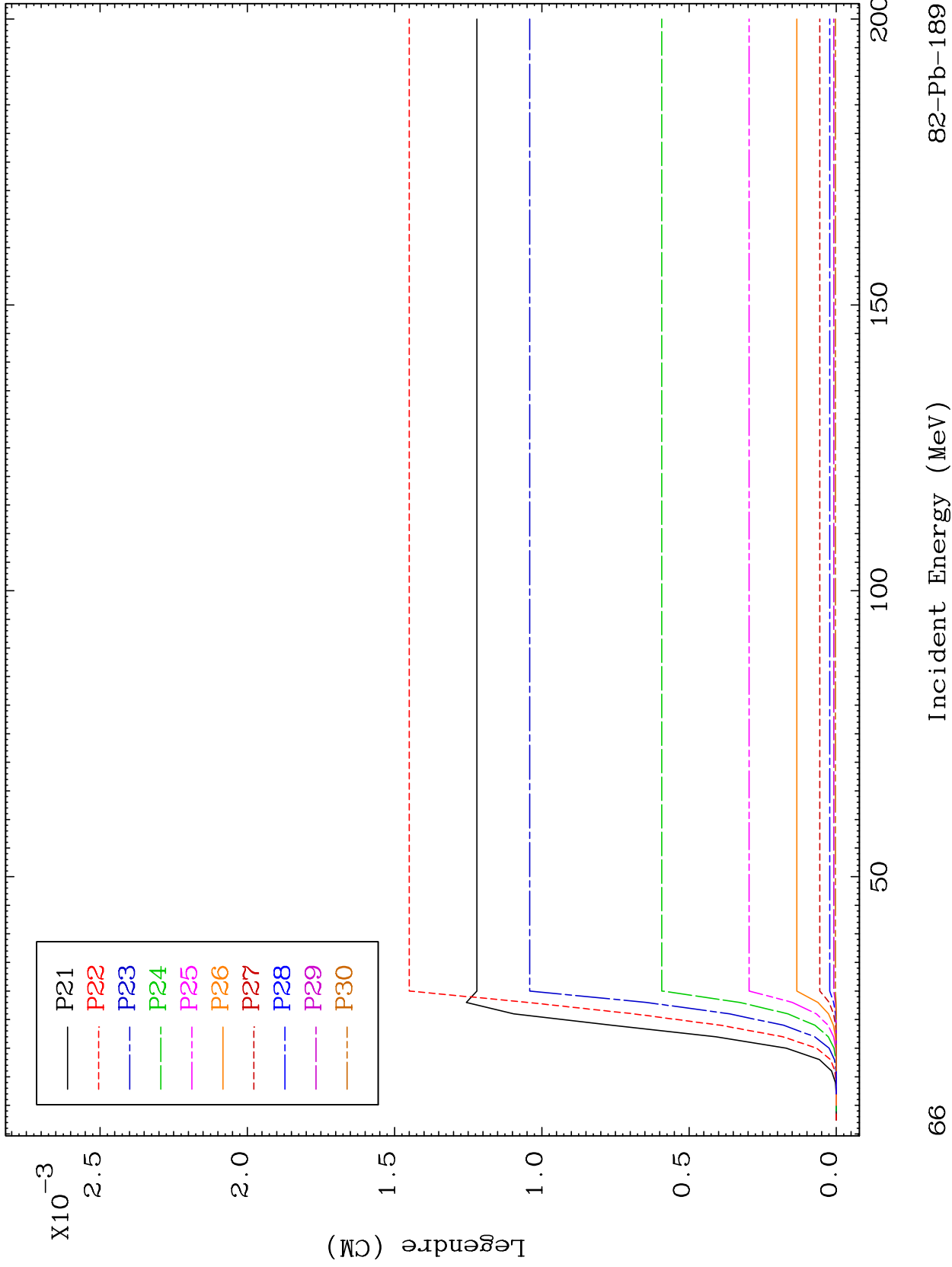
MAT 8180

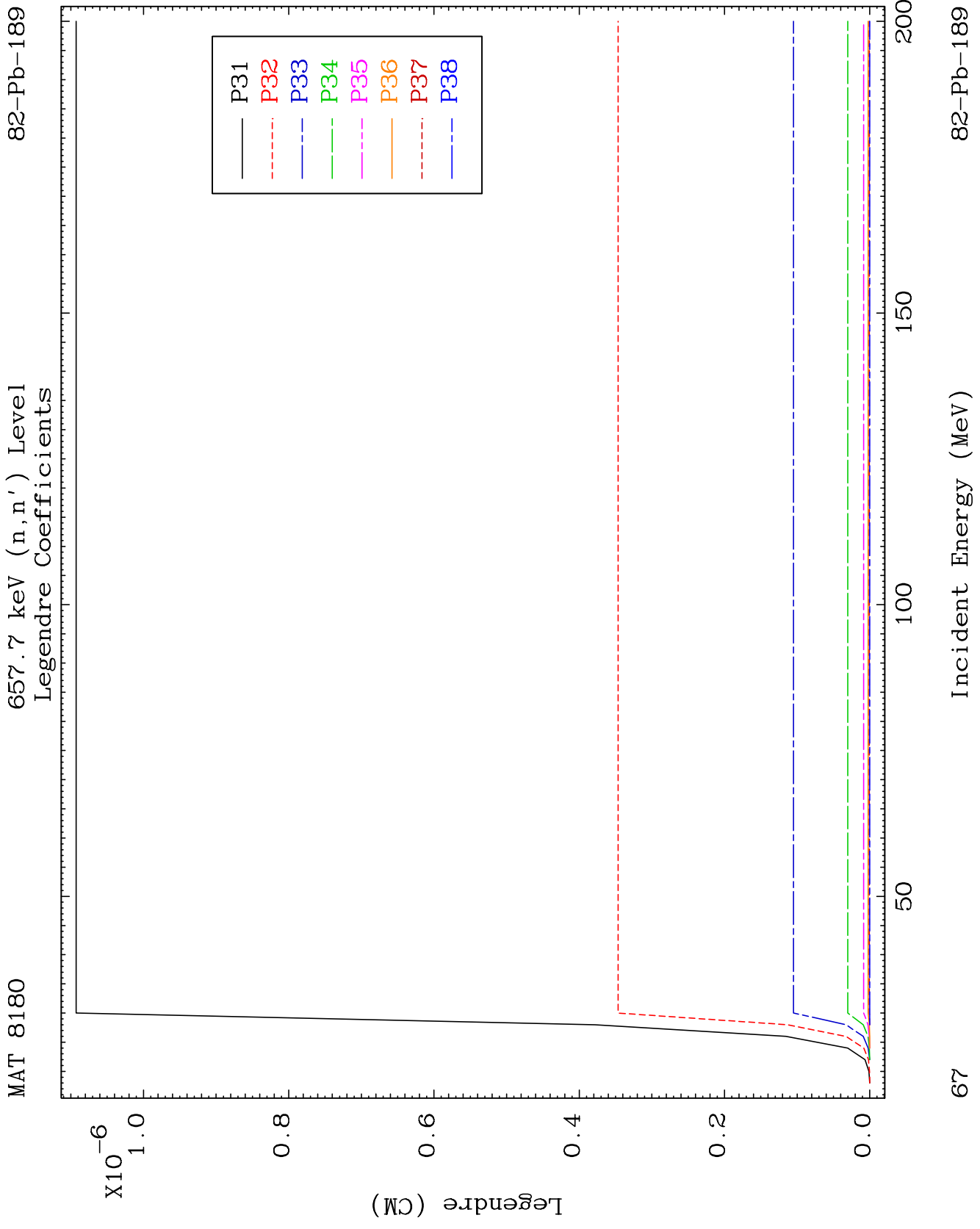
657.7 keV (n,n') Level
Legendre Coefficients

82-Pb-189



65

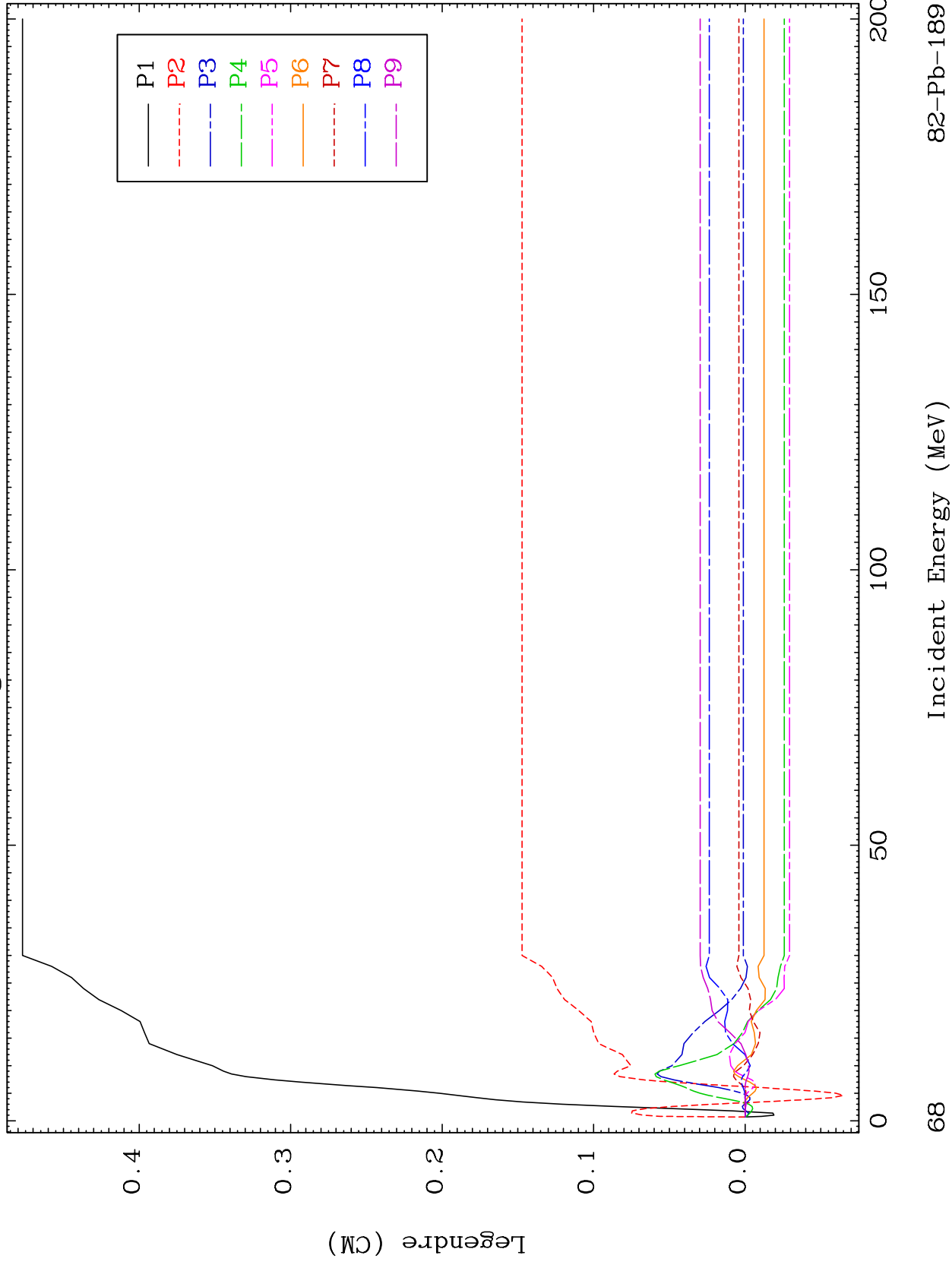




MAT 8180

667.9 keV (n,n') Level
Legendre Coefficients

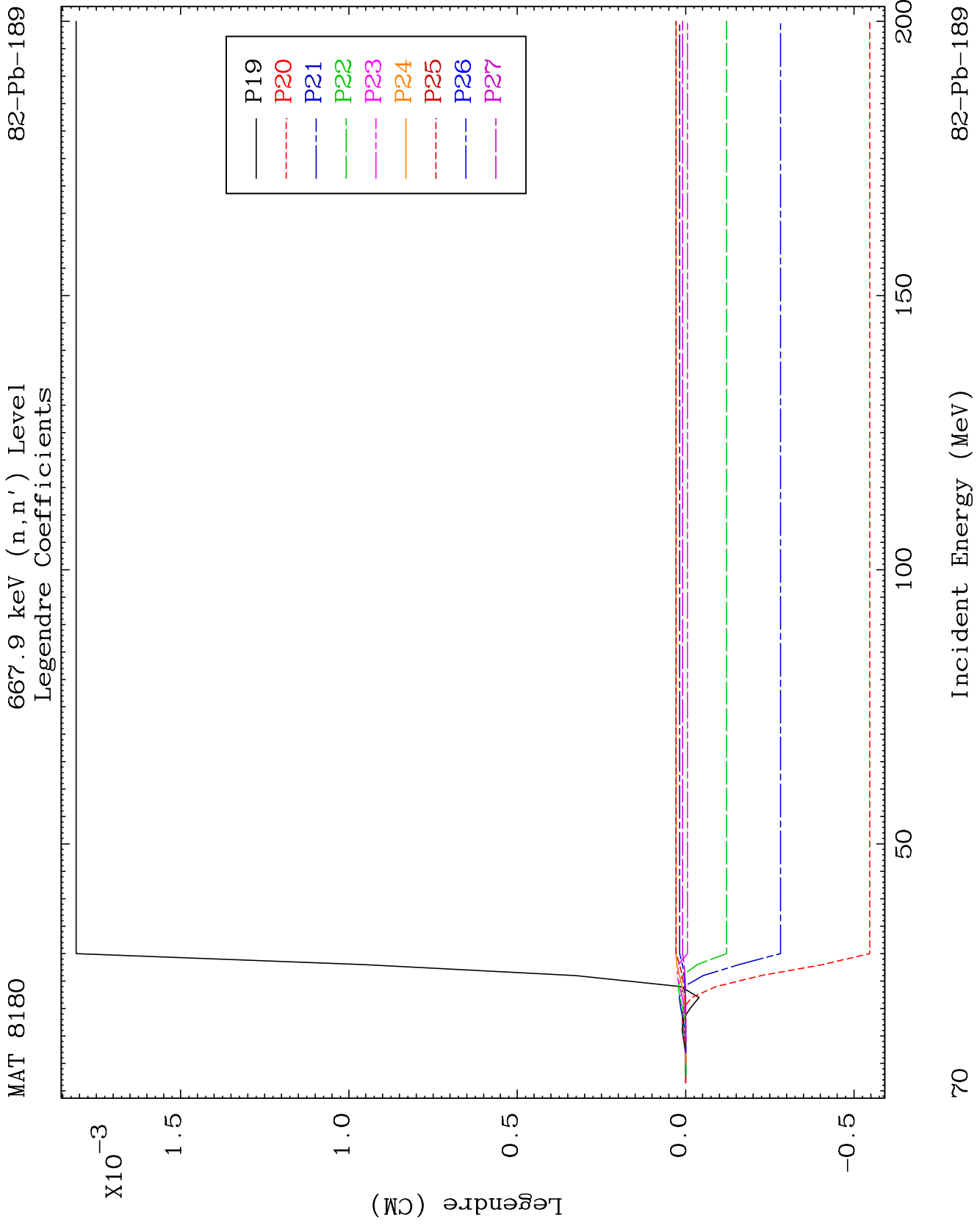
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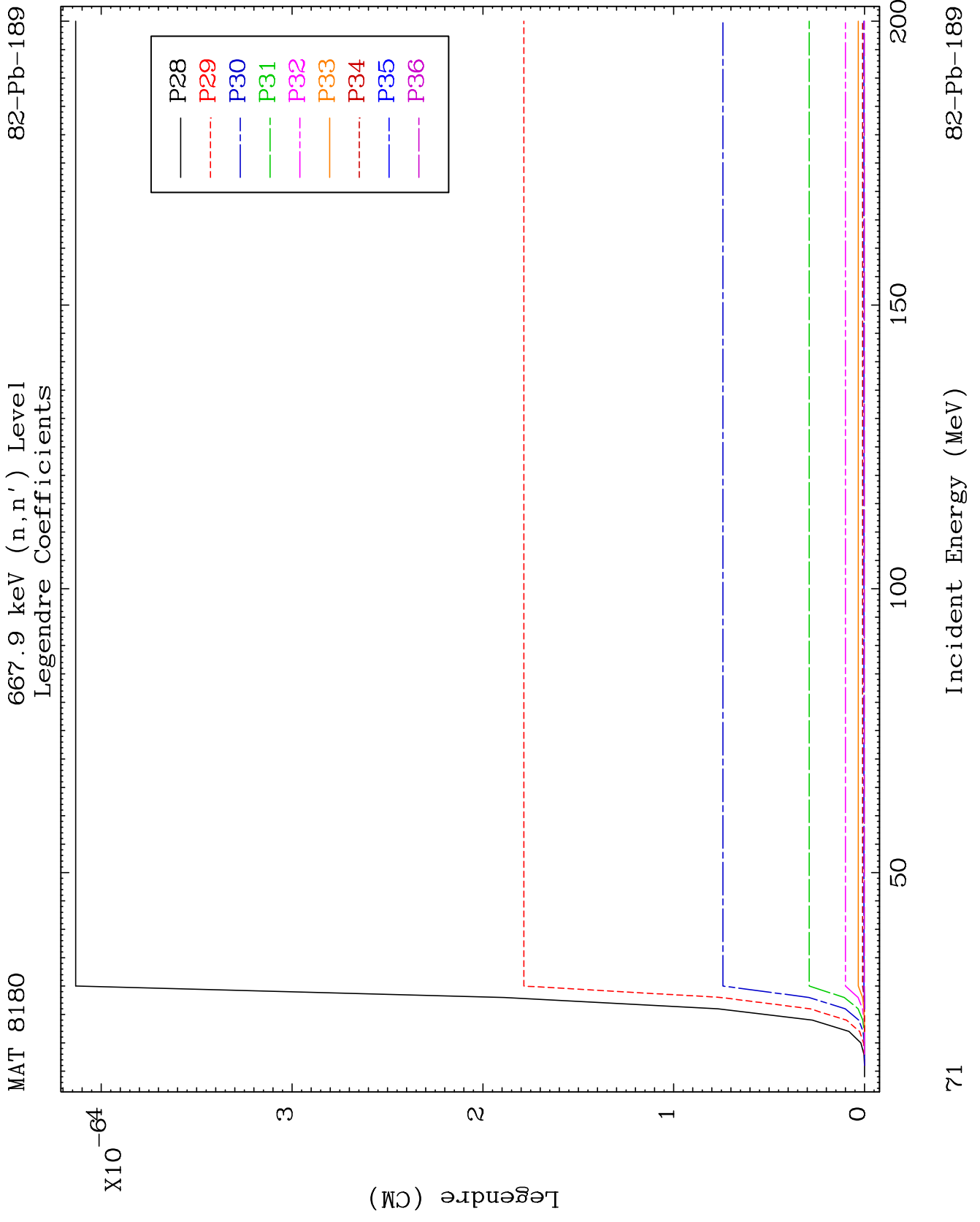


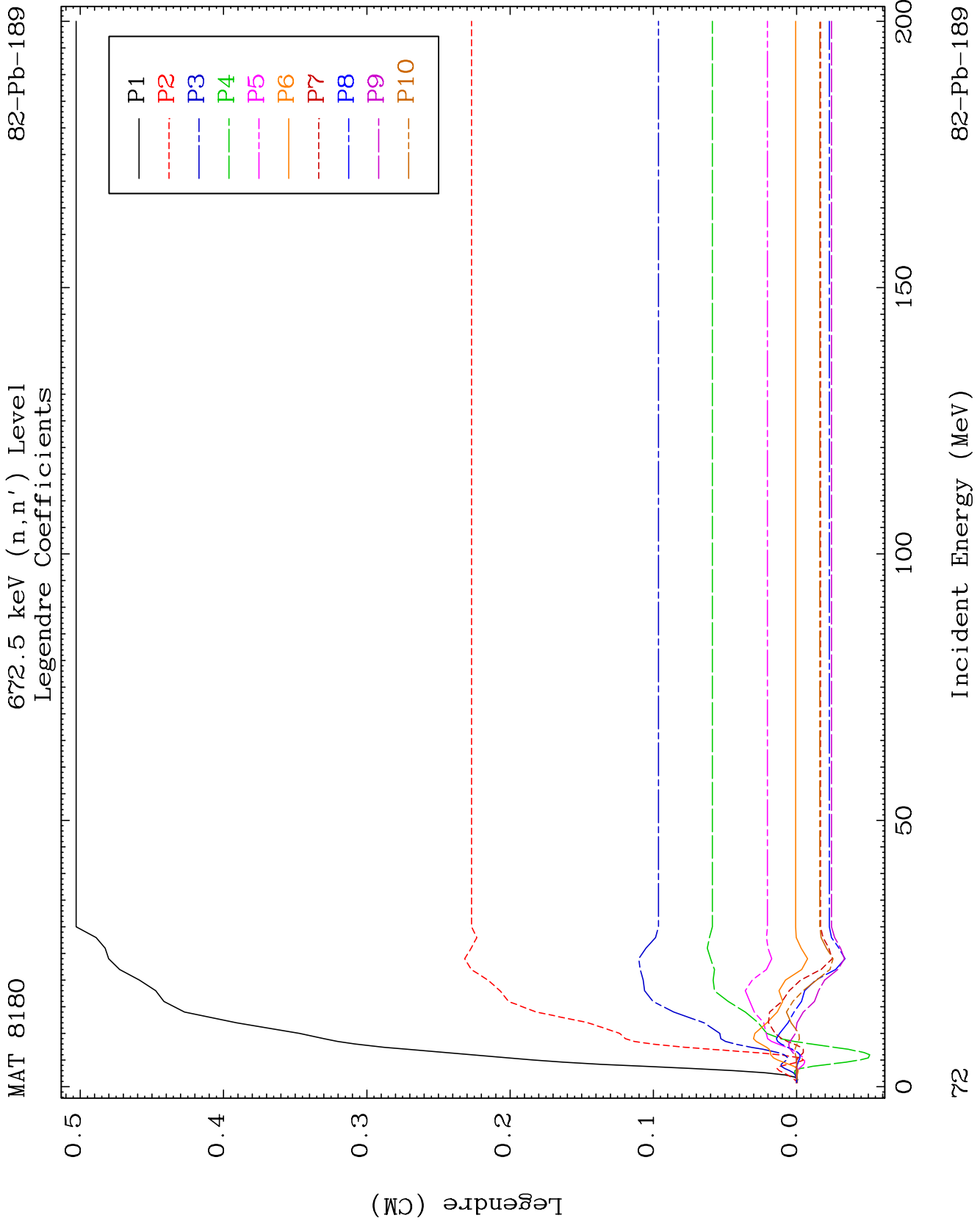
82-Pb-189

Incident Energy (MeV)

68



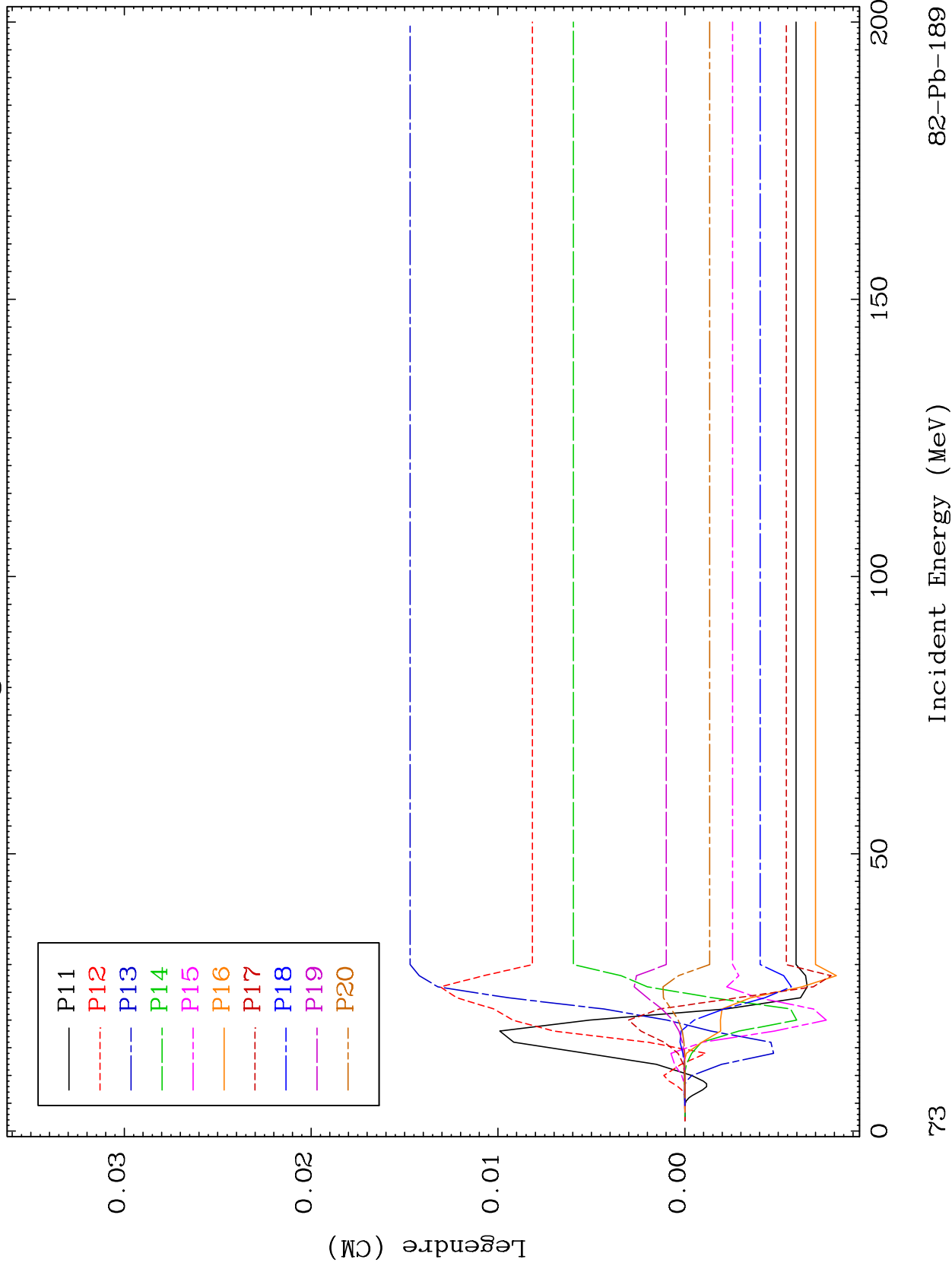




MAT 8180

672.5 keV (n,n') Level
Legendre Coefficients

82-Pb-189



73

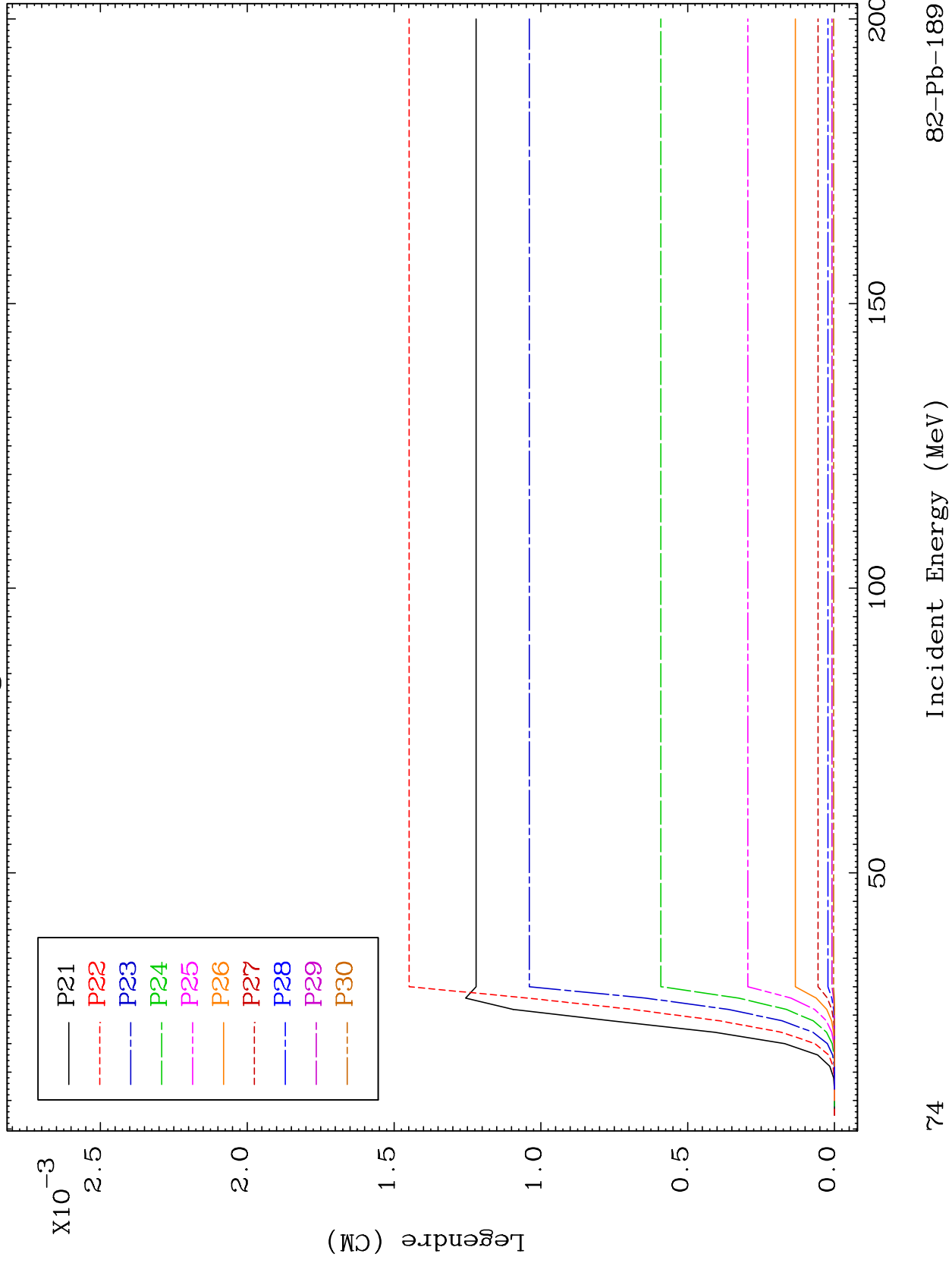
Incident Energy (MeV)

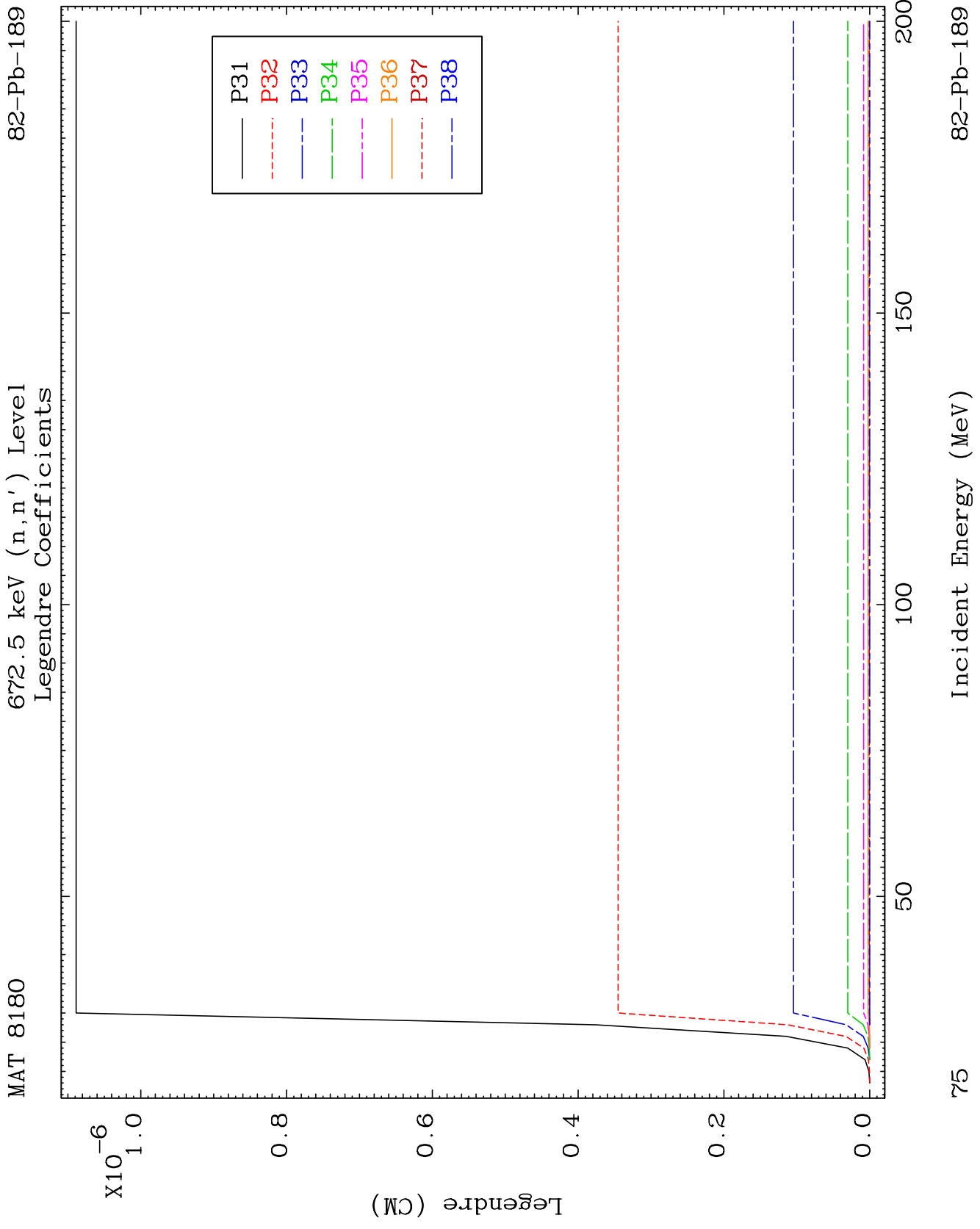
82-Pb-189

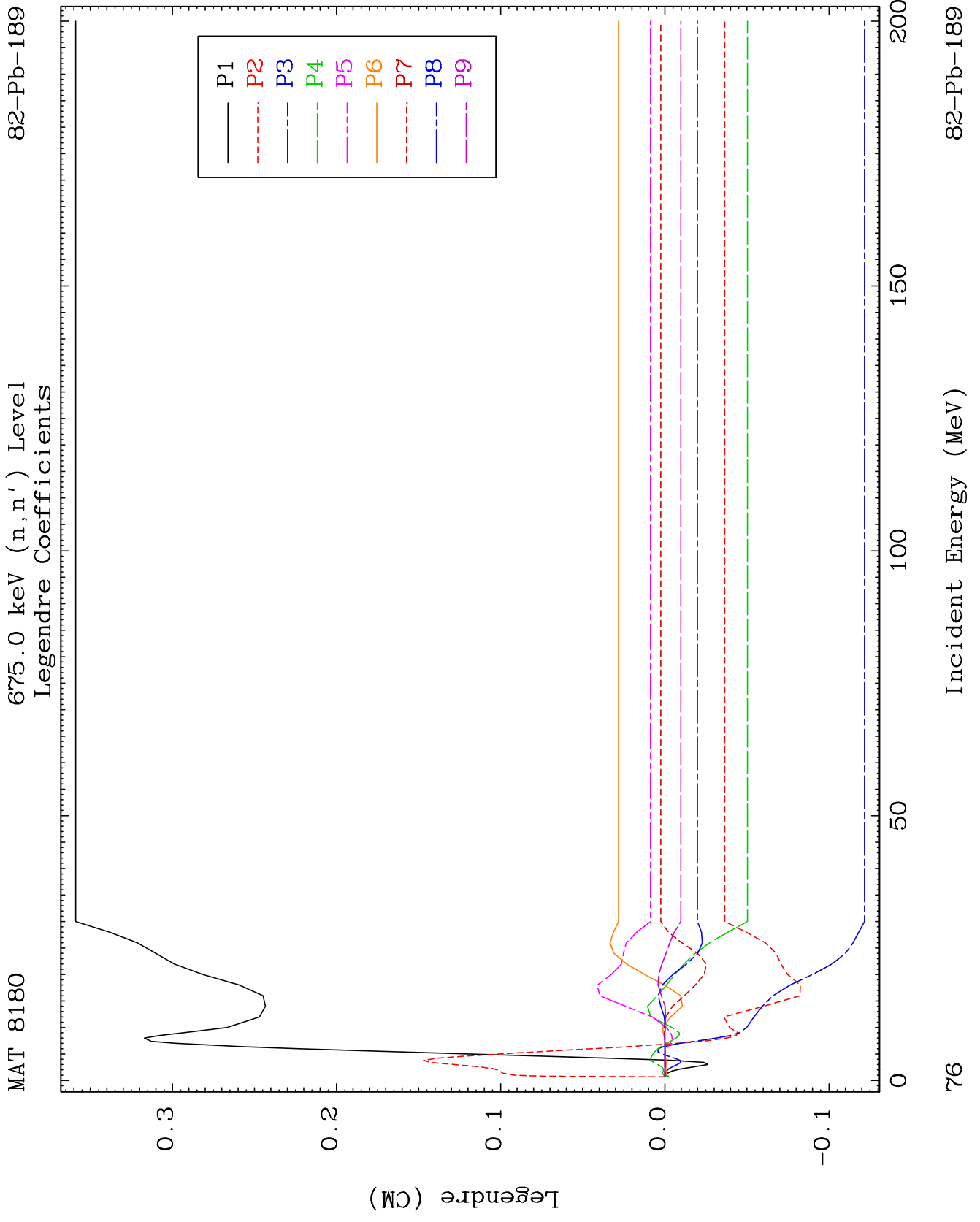
MAT 8180

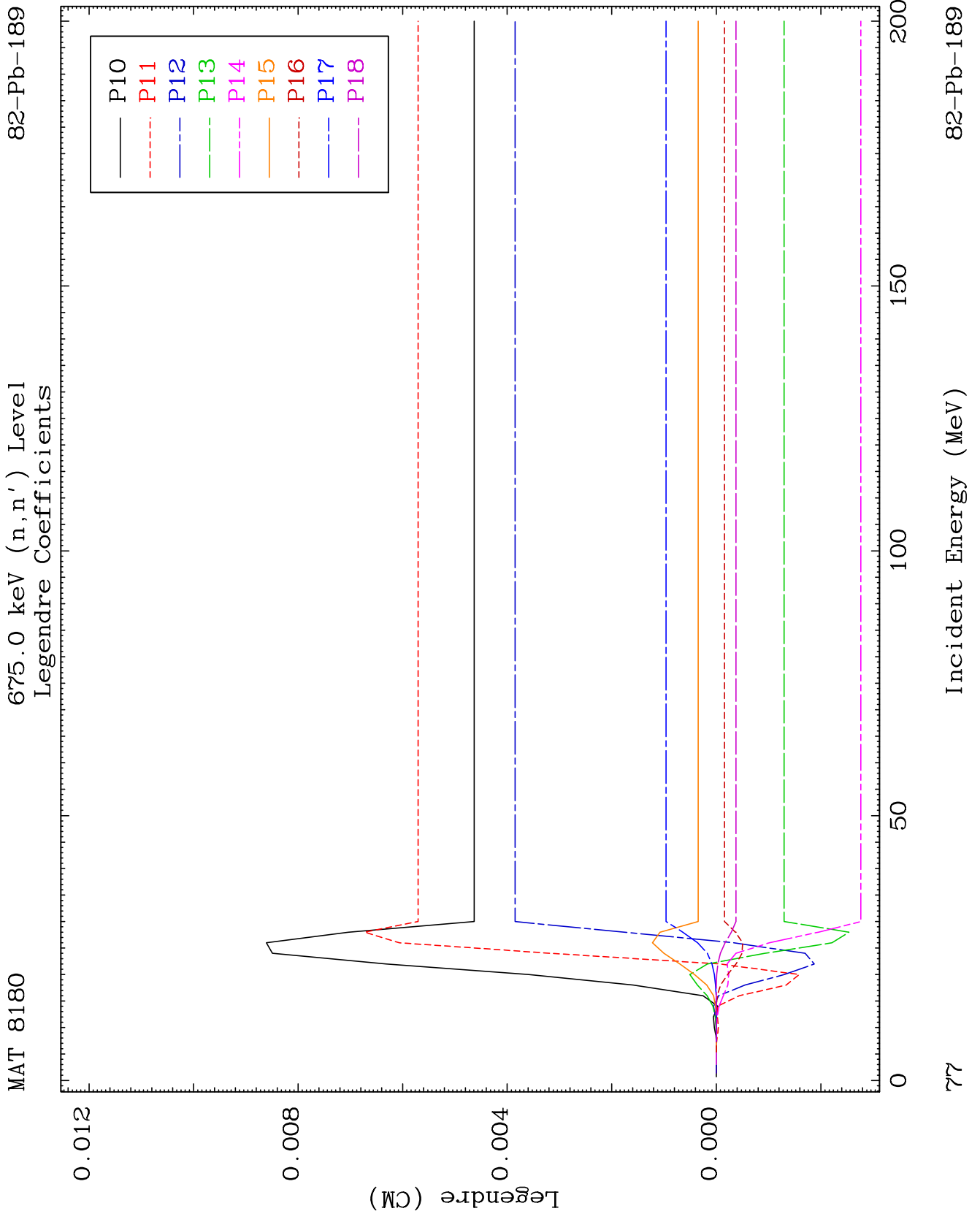
672.5 keV (n,n') Level
Legendre Coefficients

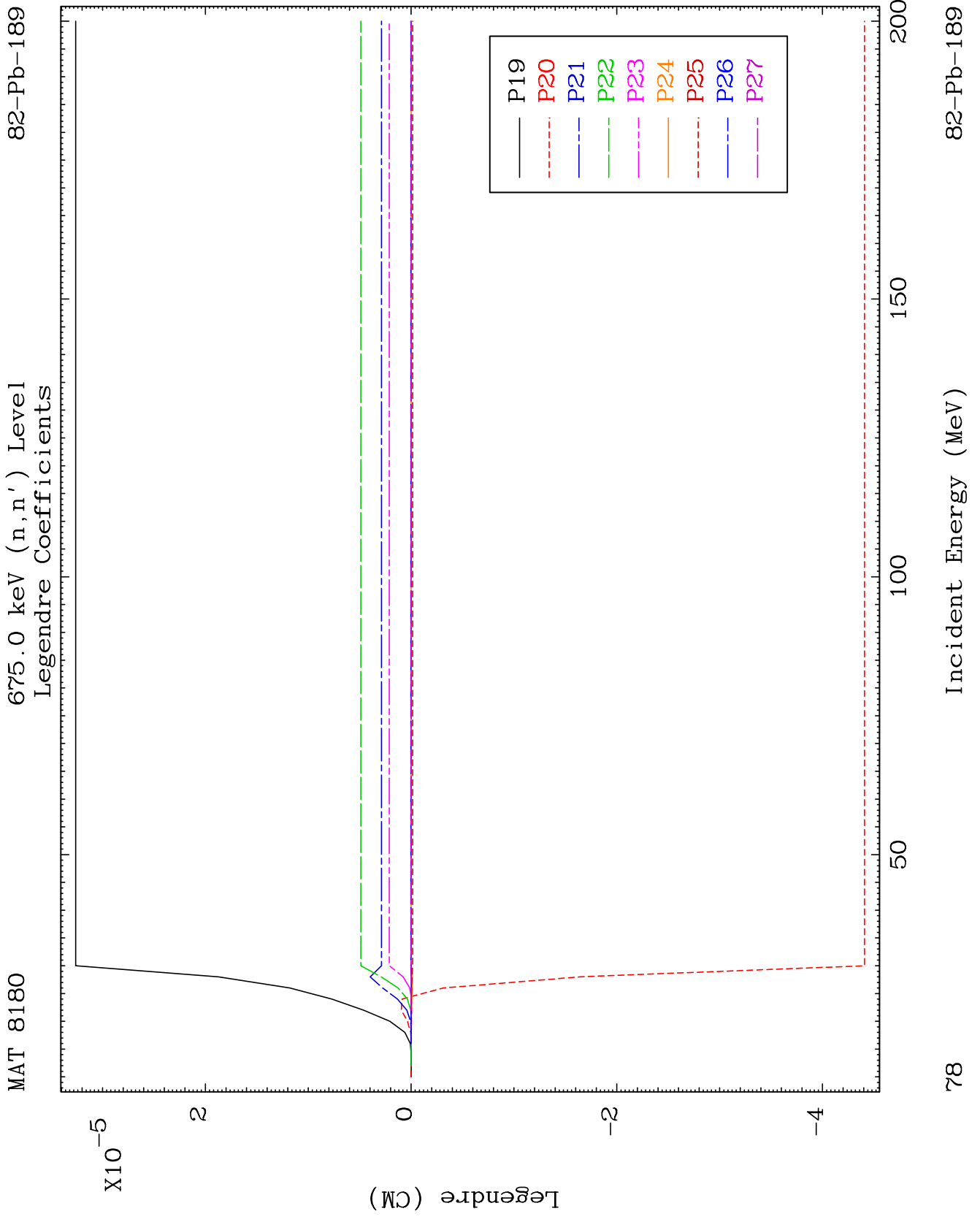
82-Pb-189

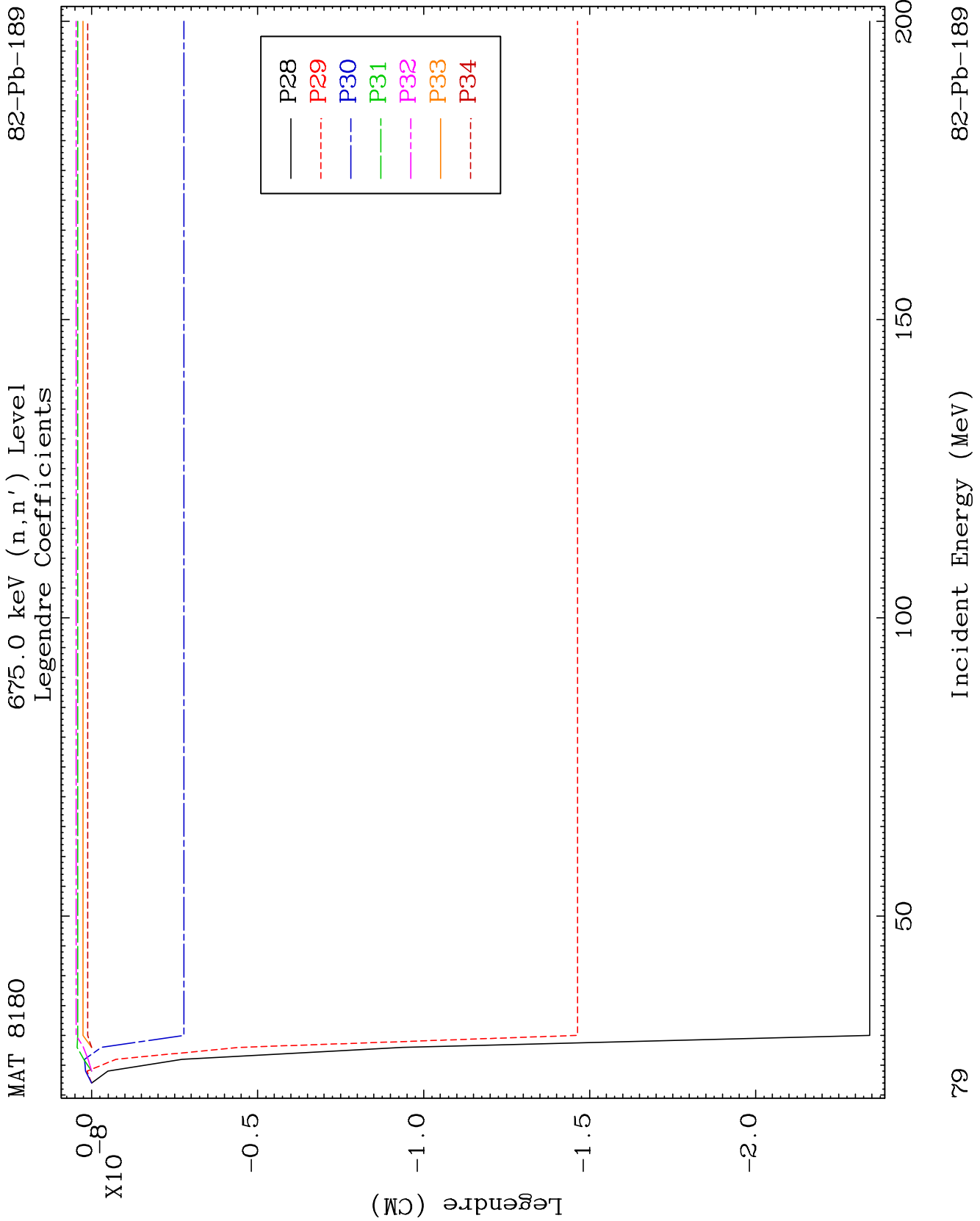


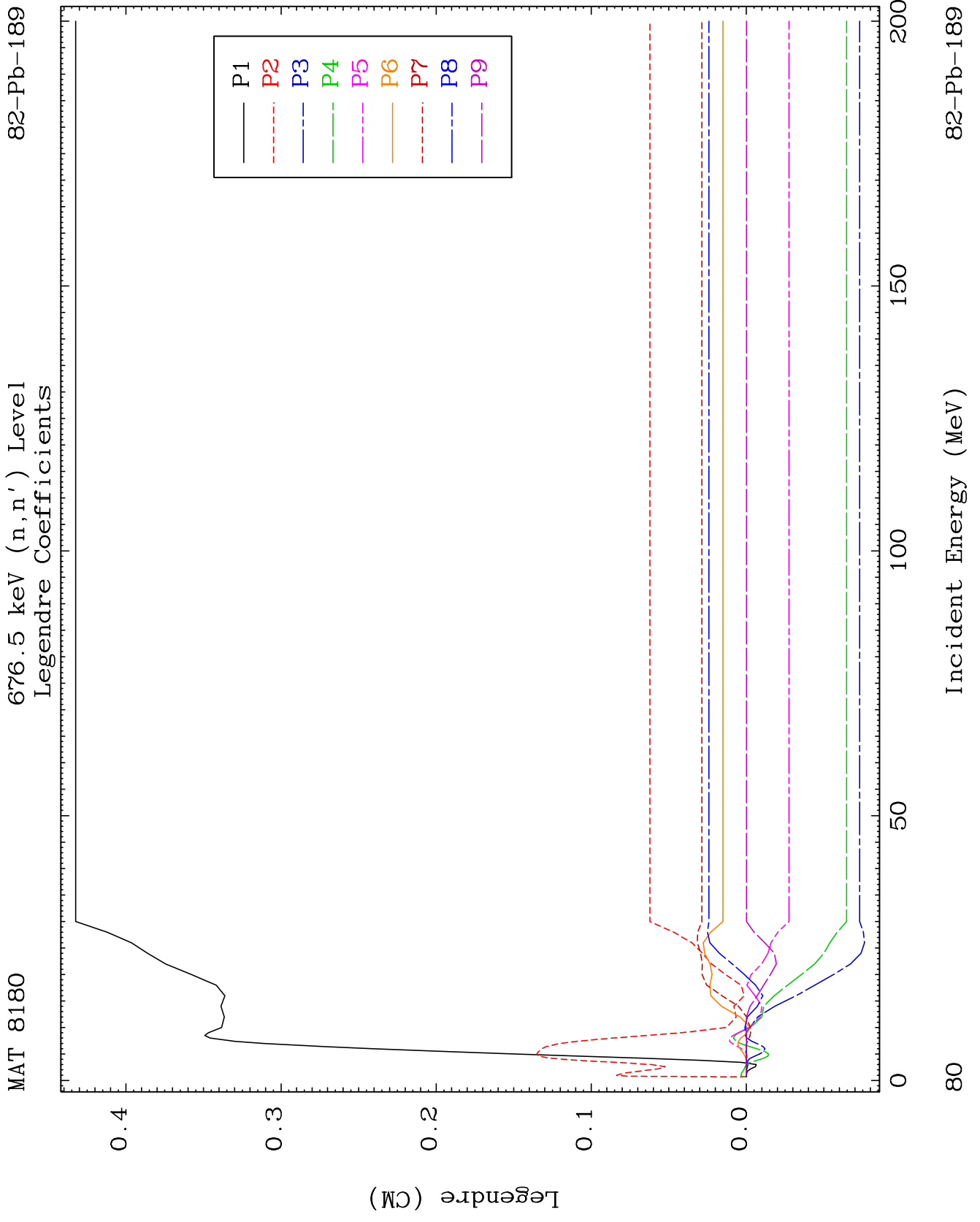


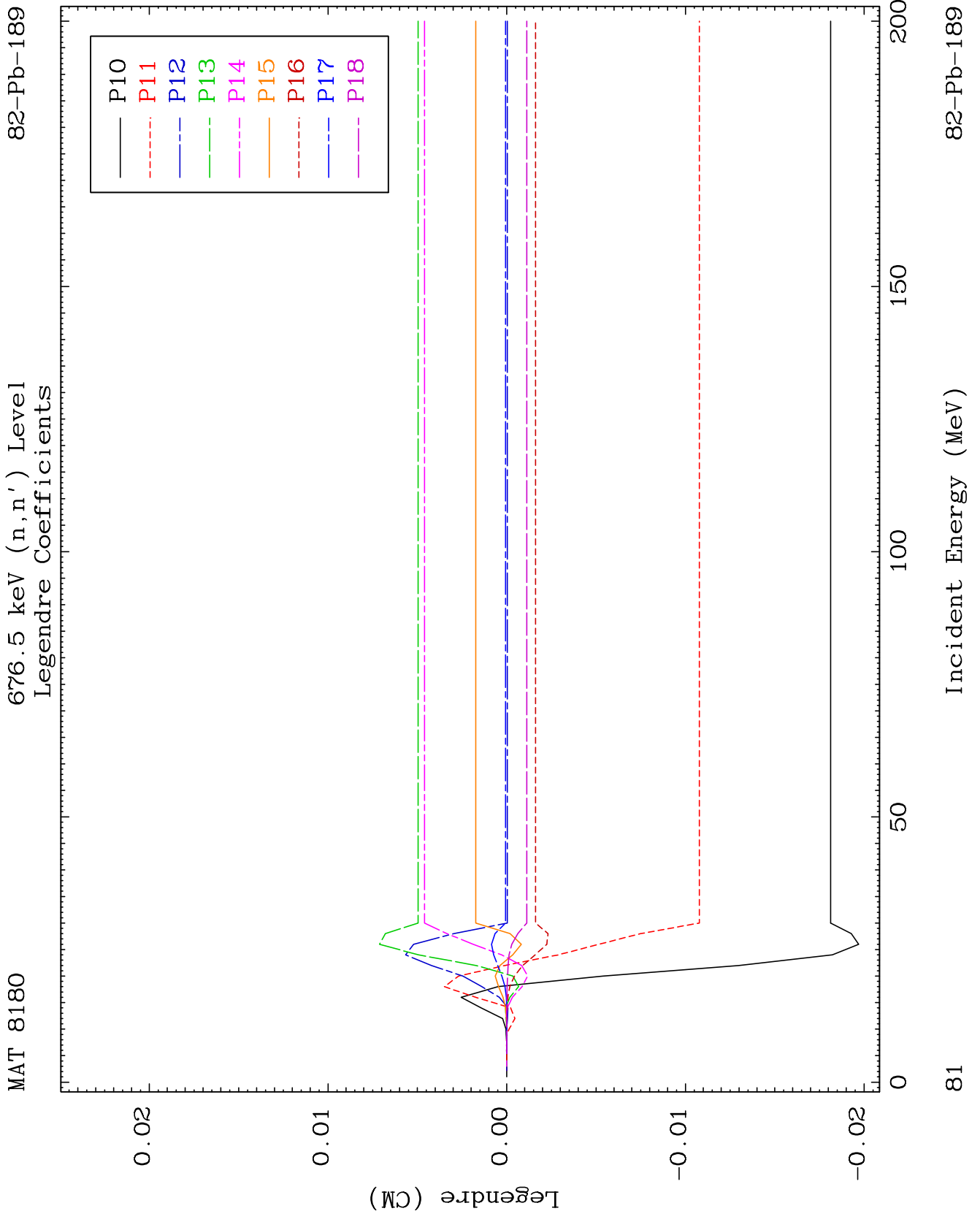


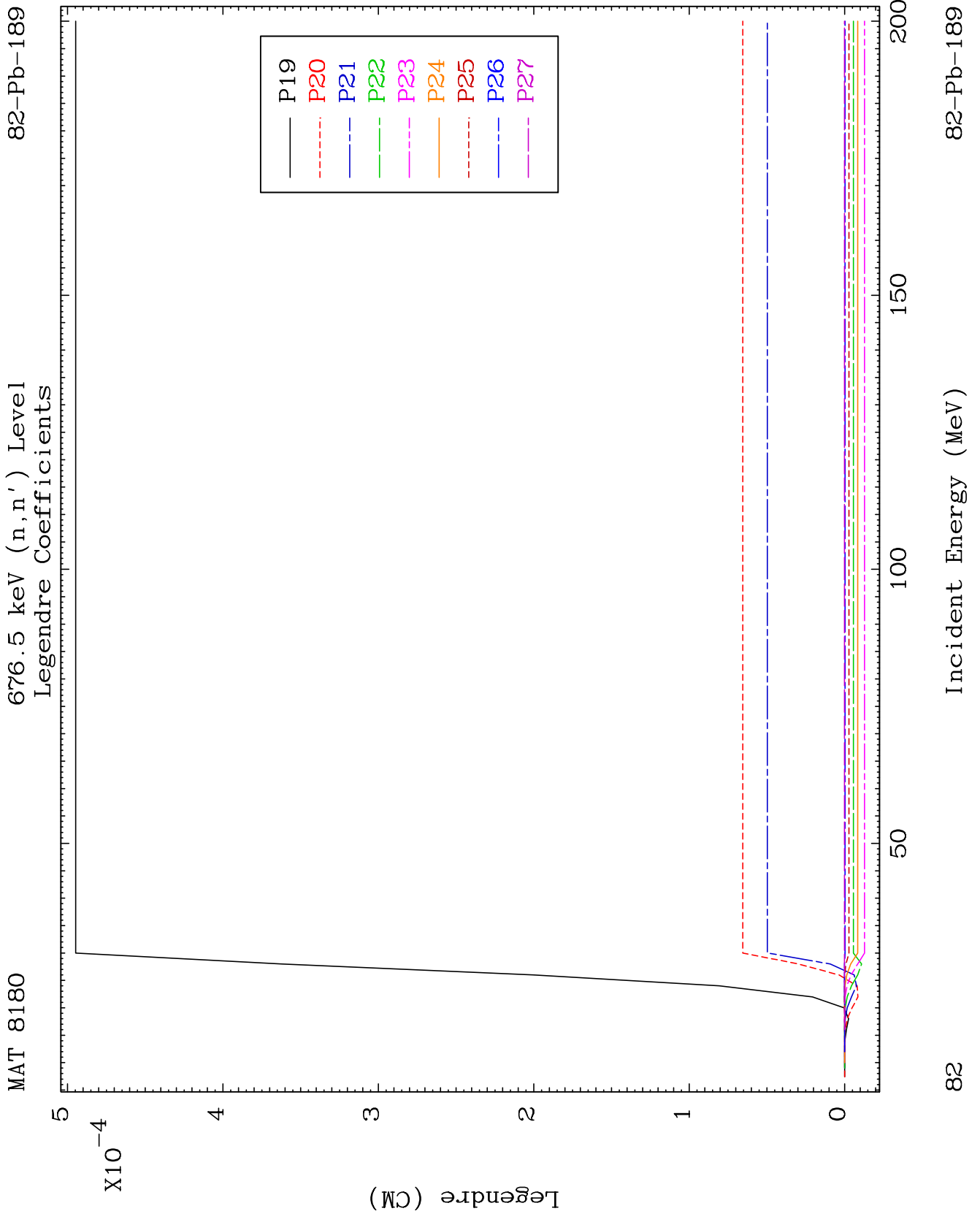


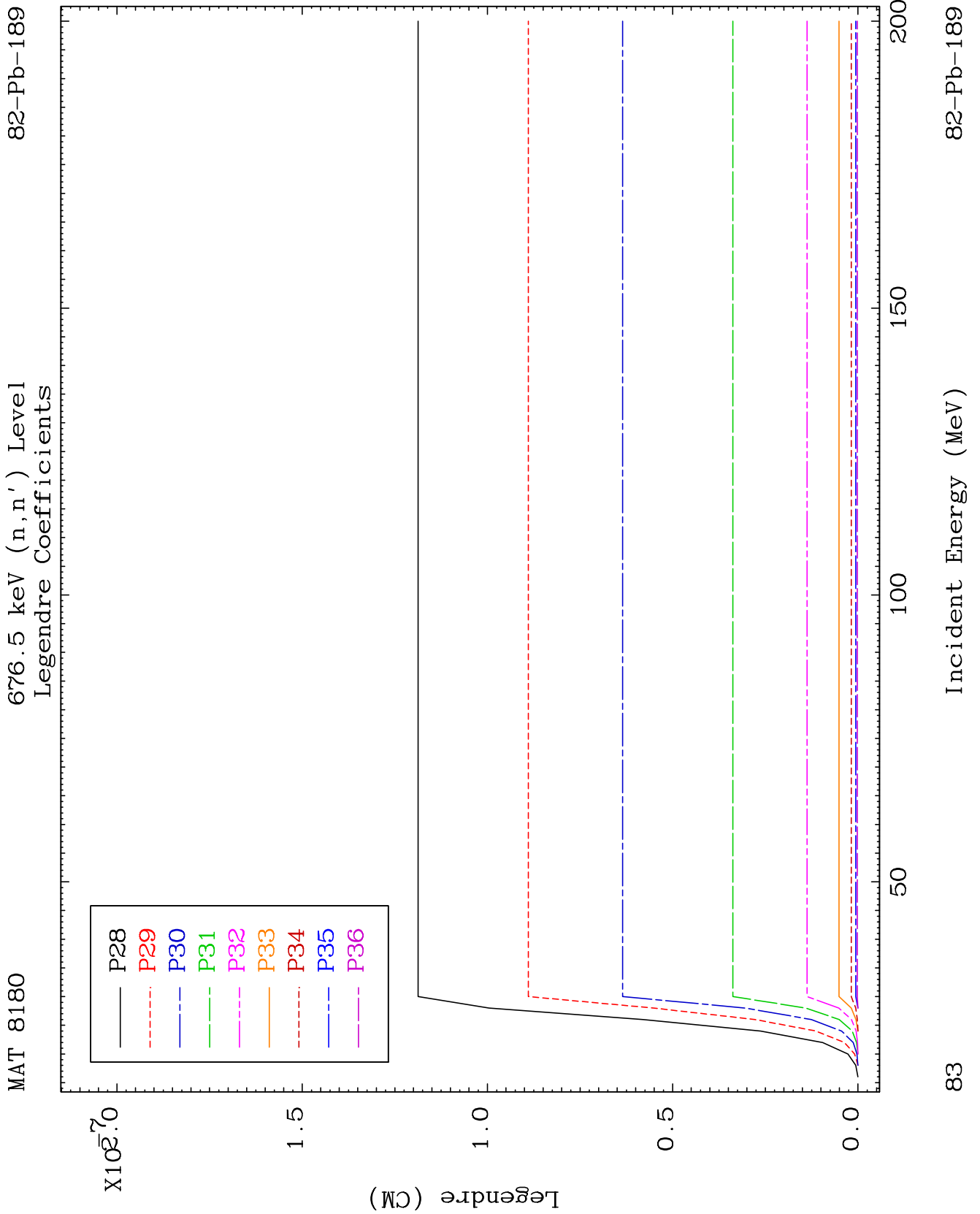








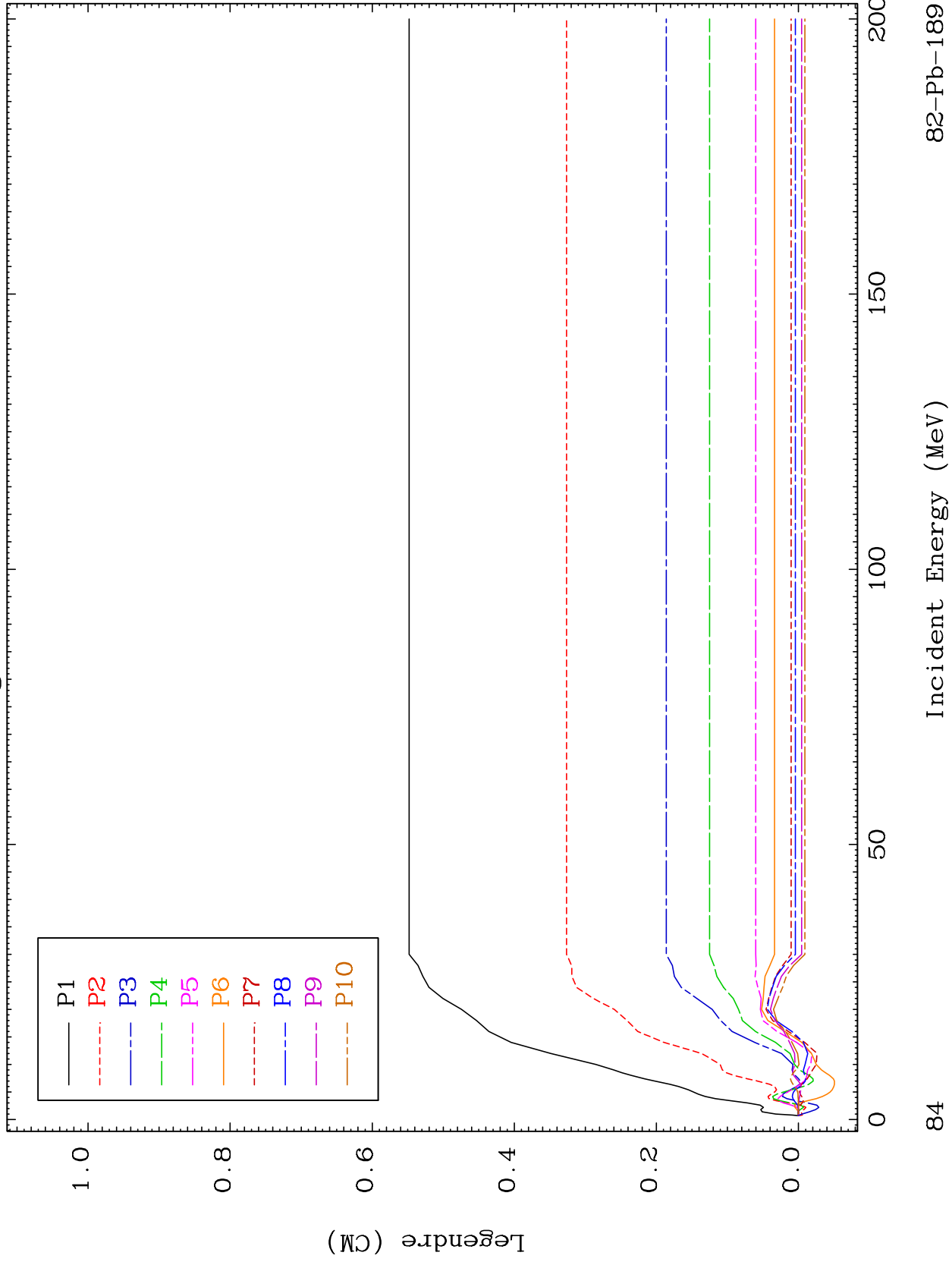




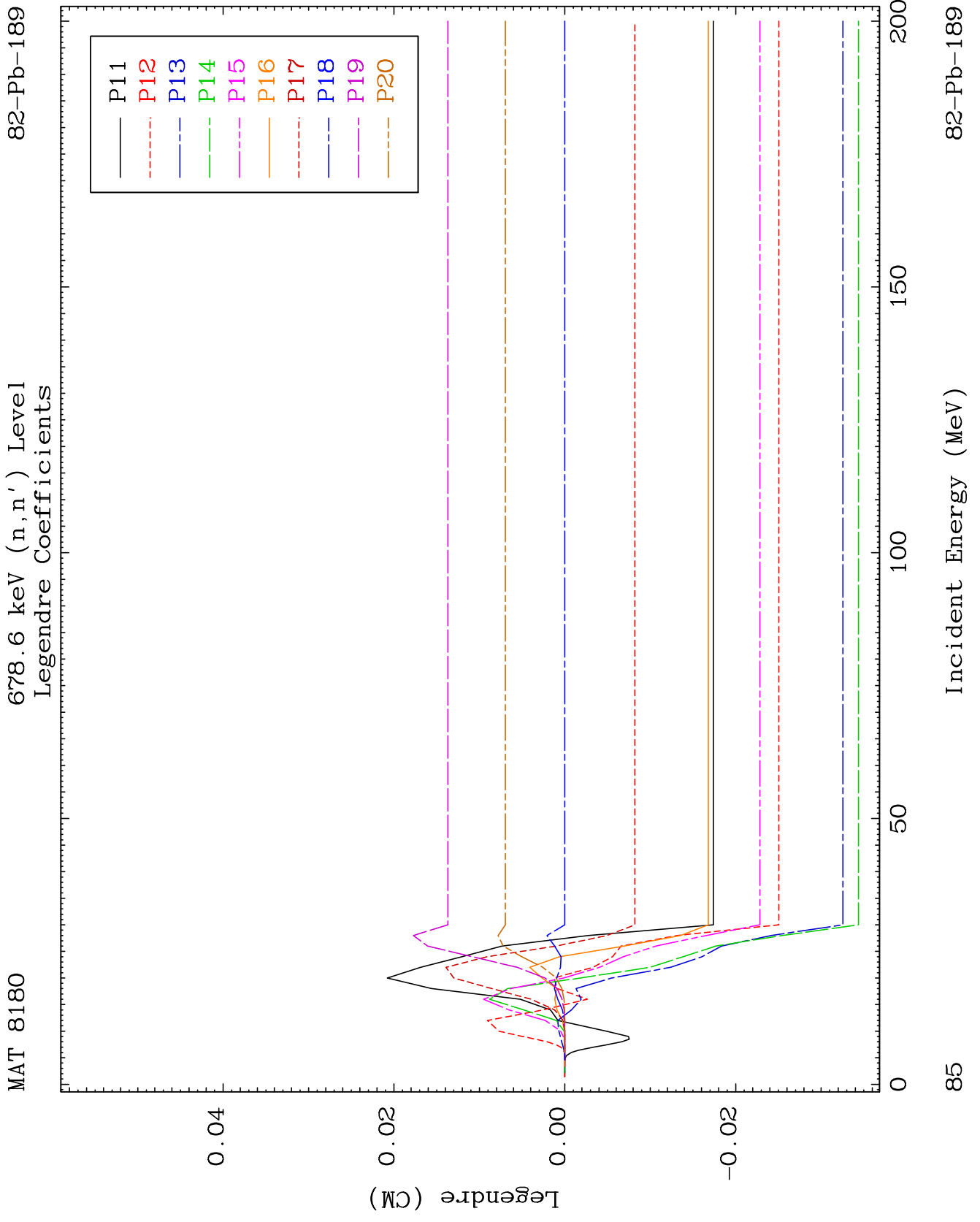
MAT 8180

678.6 keV (n, n') Level
Legendre Coefficients

82-Pb-189



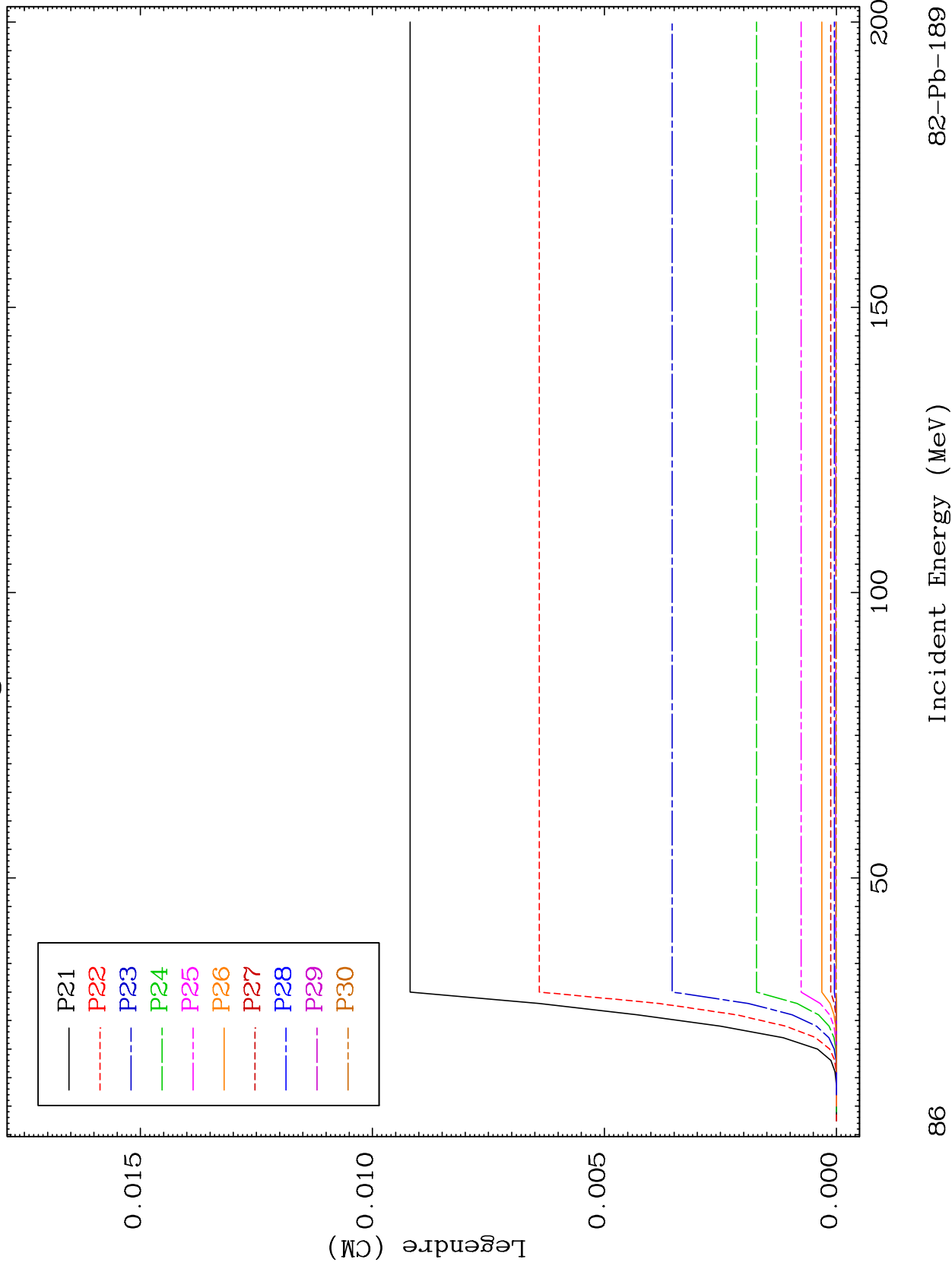
84



MAT 8180

678.6 keV (n, n') Level
Legendre Coefficients

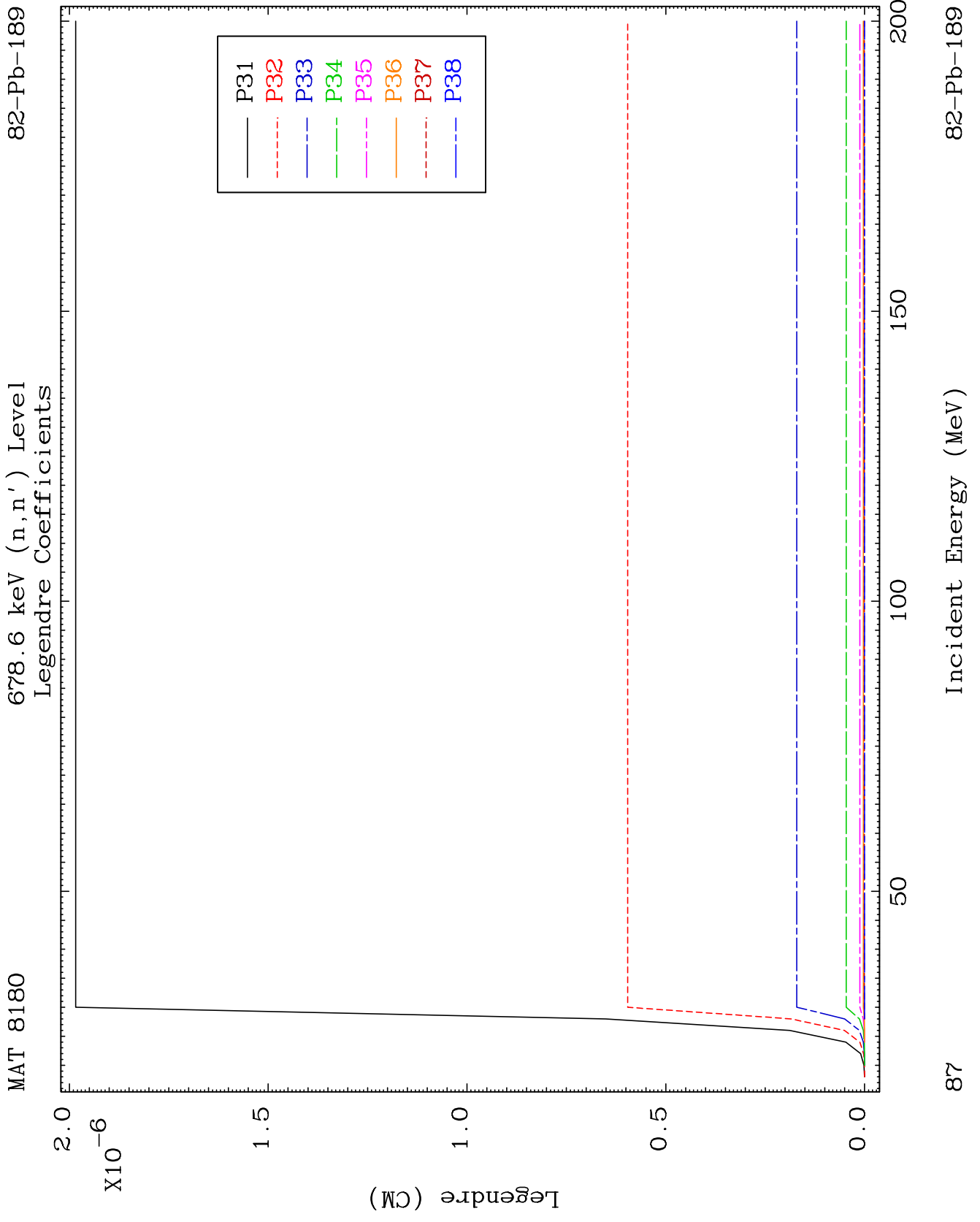
82-Pb-189

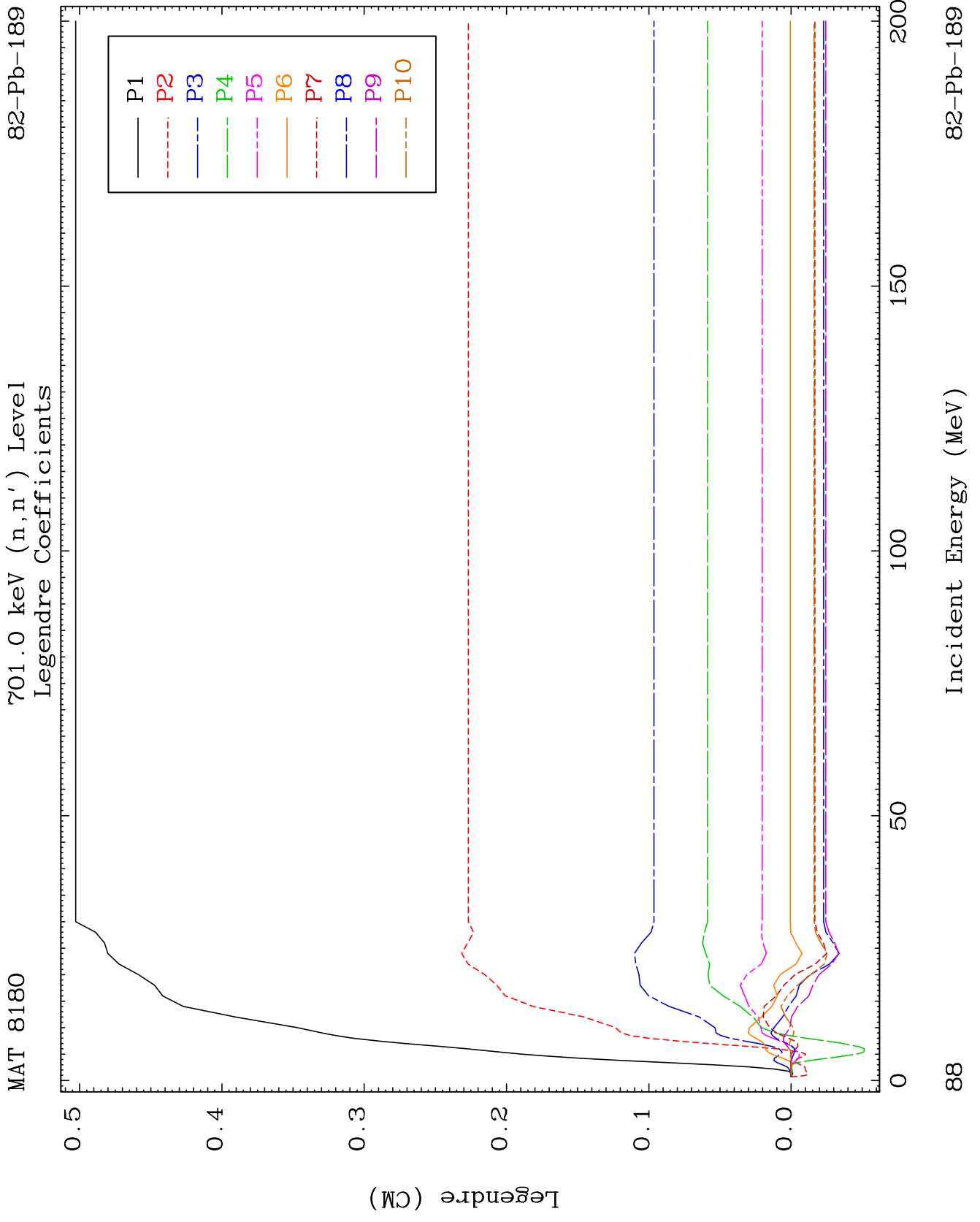


86

Incident Energy (MeV)

82-Pb-189

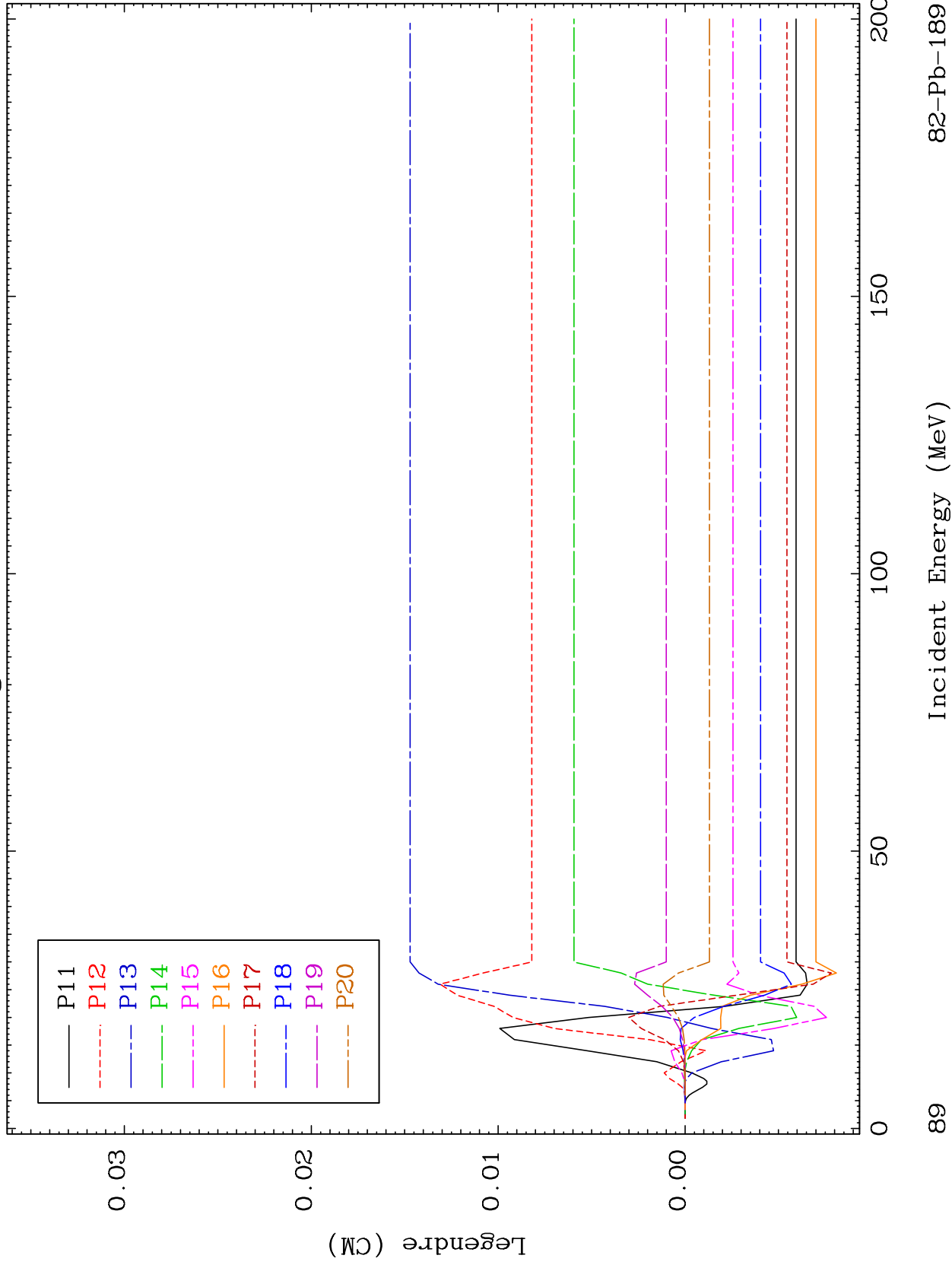




MAT 8180

701.0 keV (n,n') Level
Legendre Coefficients

82-Pb-189



89

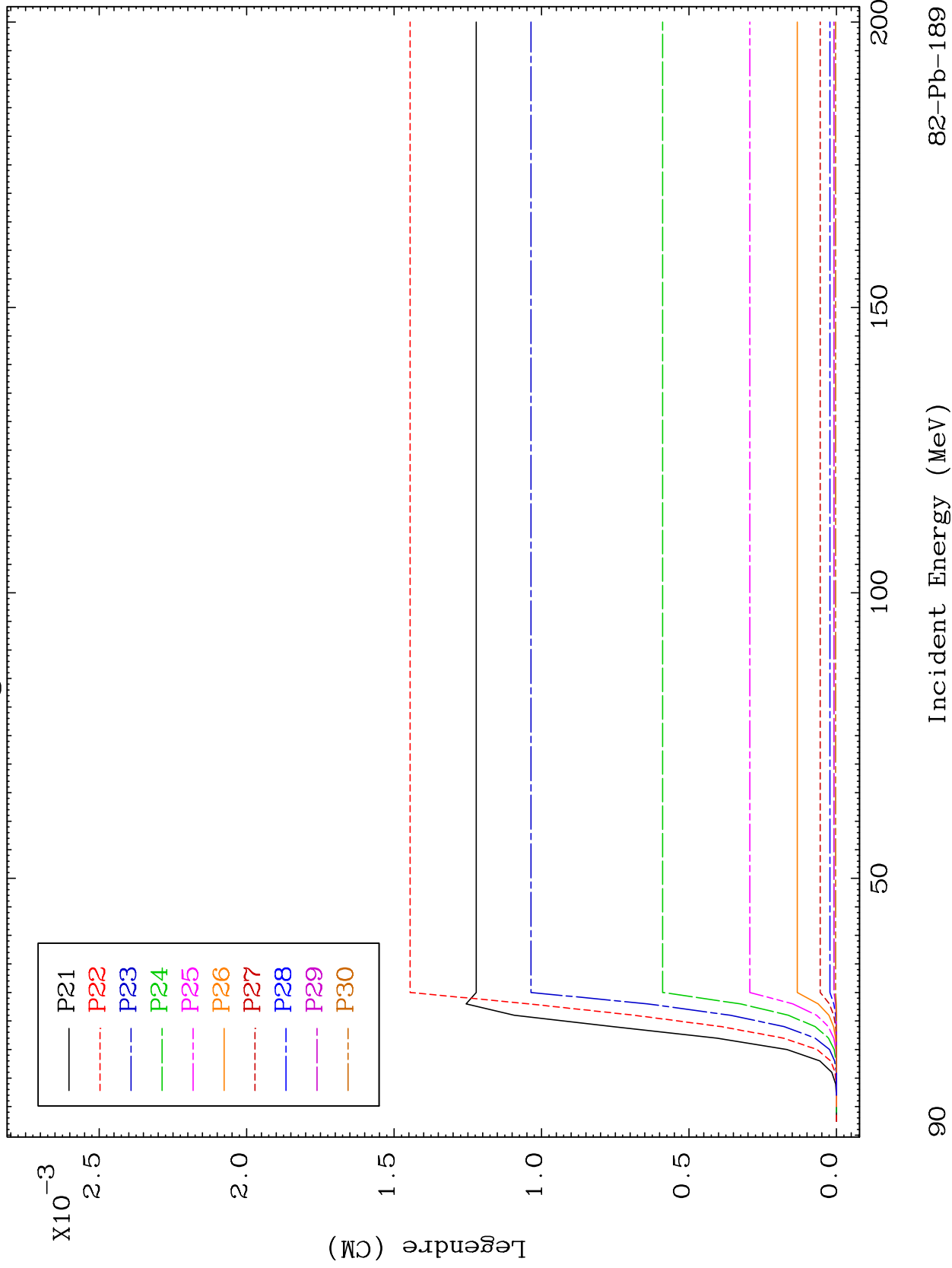
Incident Energy (MeV)

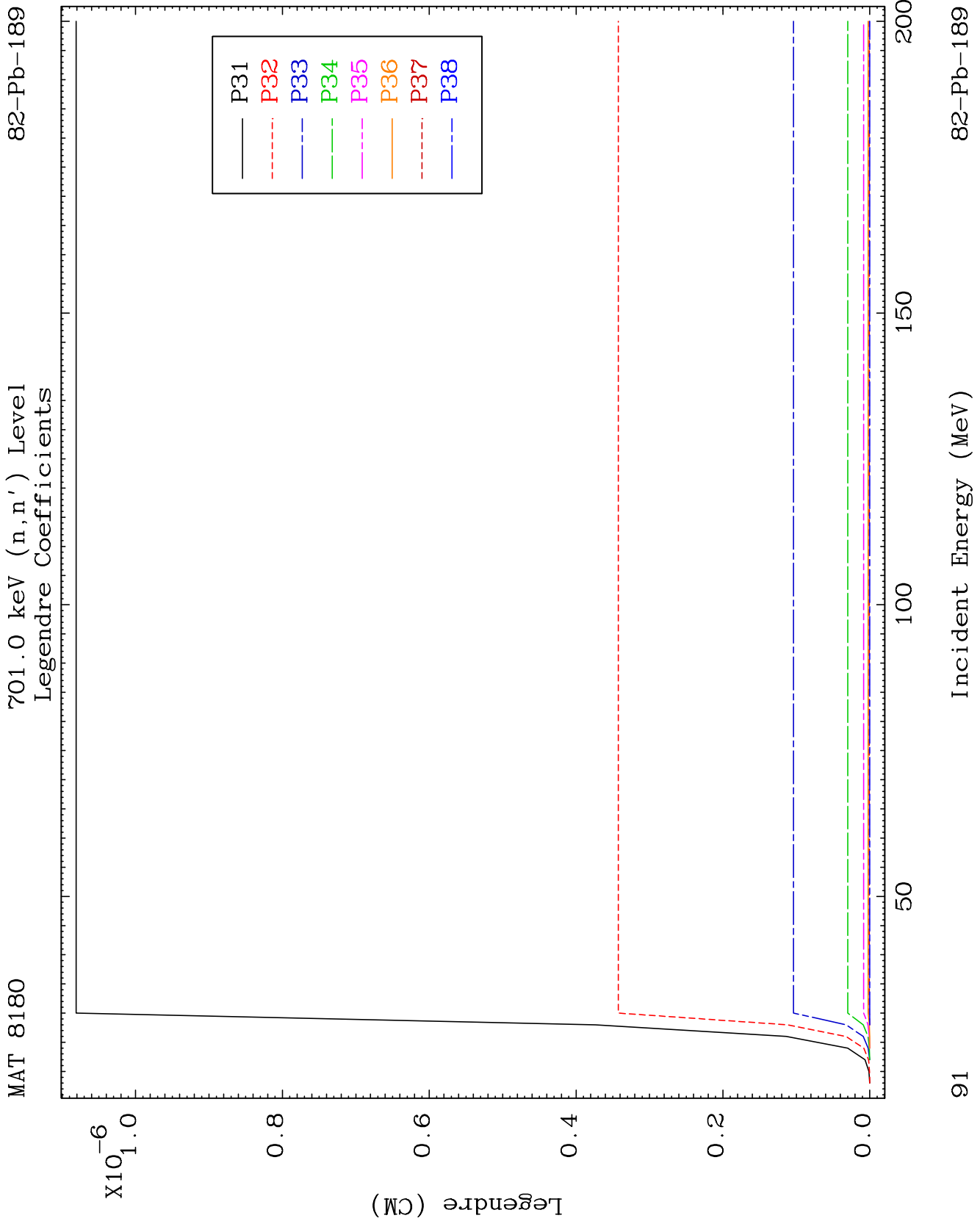
82-Pb-189

MAT 8180

701.0 keV (n,n') Level
Legendre Coefficients

82-Pb-189

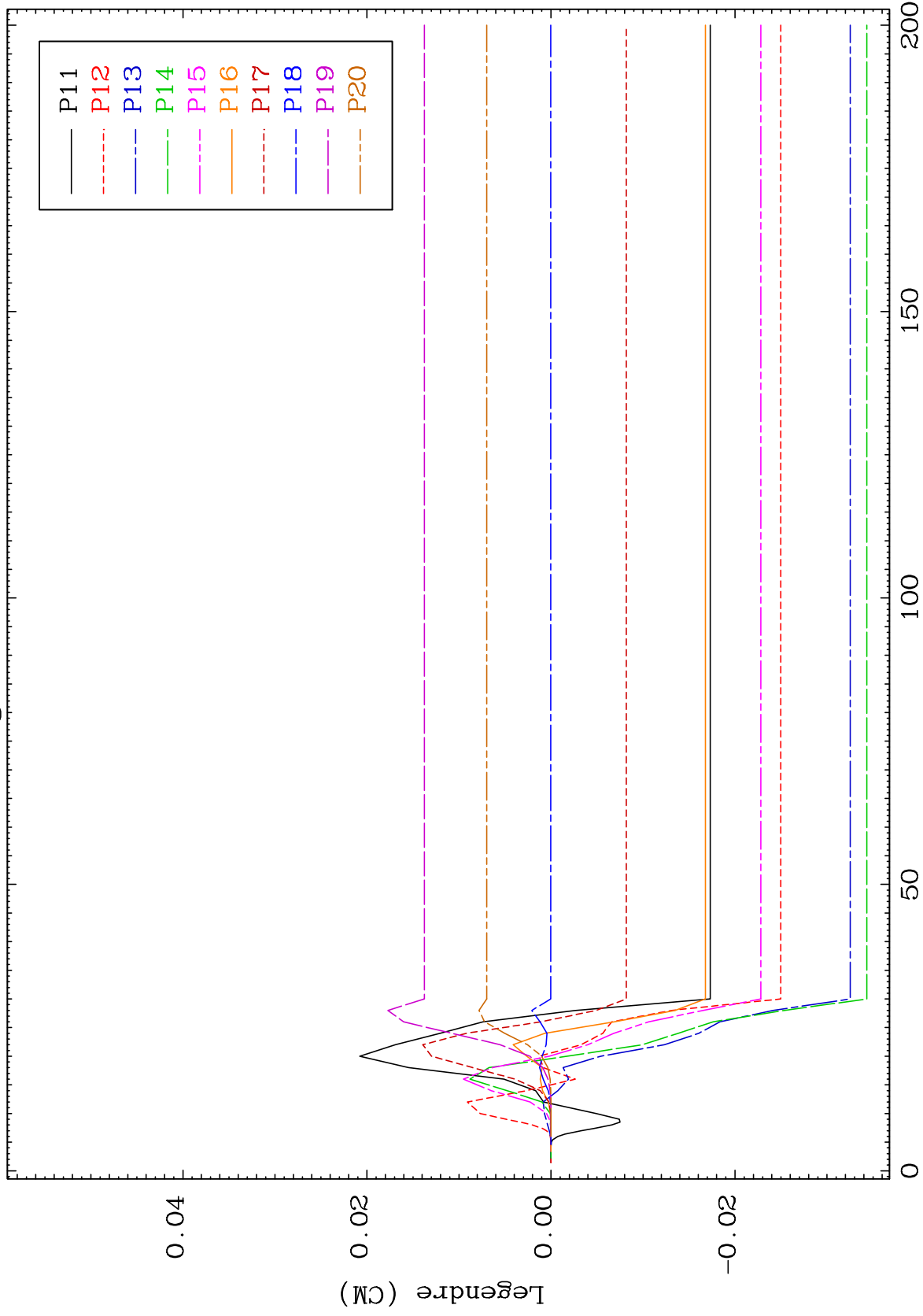




MAT 8180

714.3 keV (n, n') Level
Legendre Coefficients

82-Pb-189



93

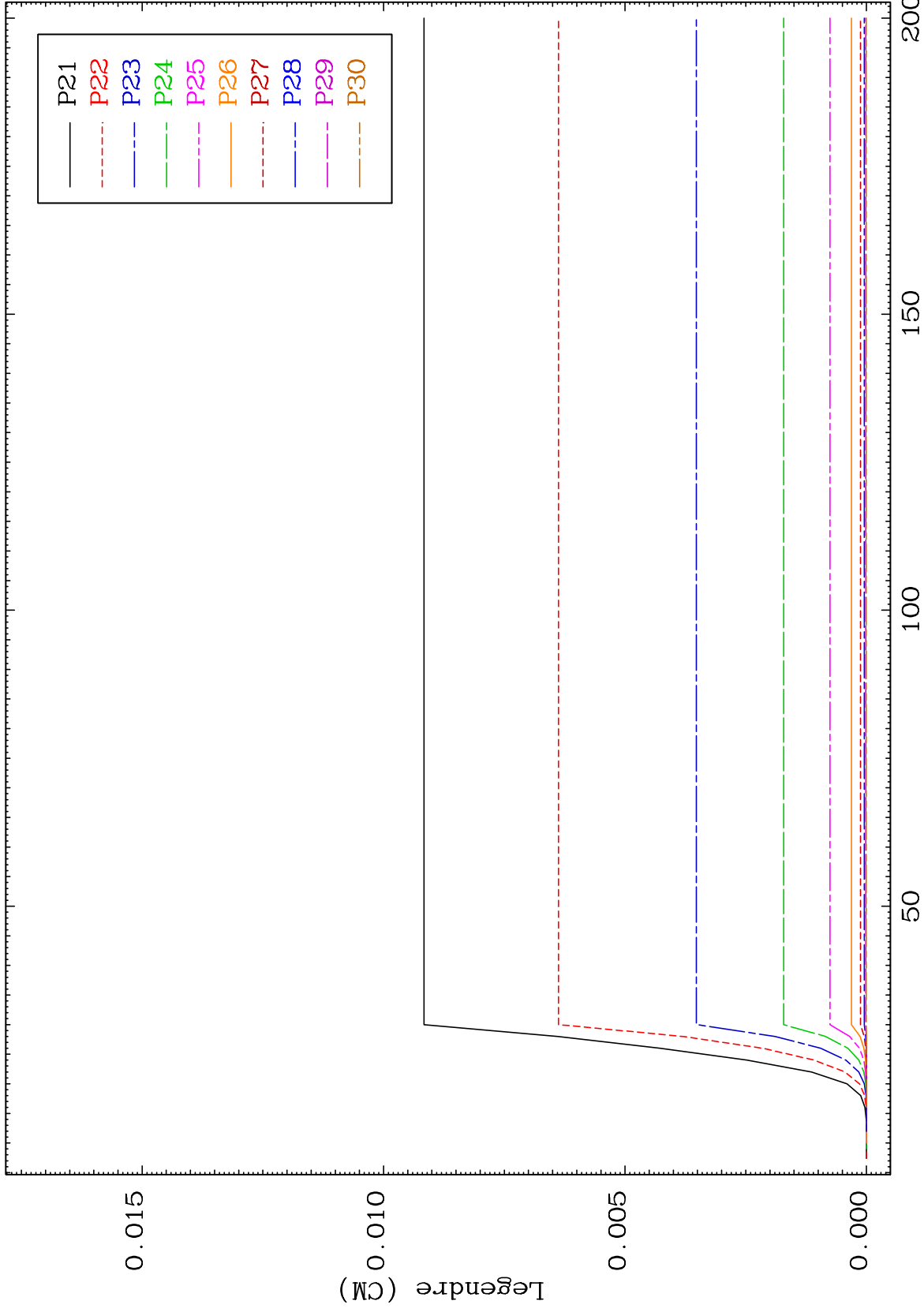
Incident Energy (MeV)

82-Pb-189

MAT 8180

714.3 keV (n,n') Level
Legendre Coefficients

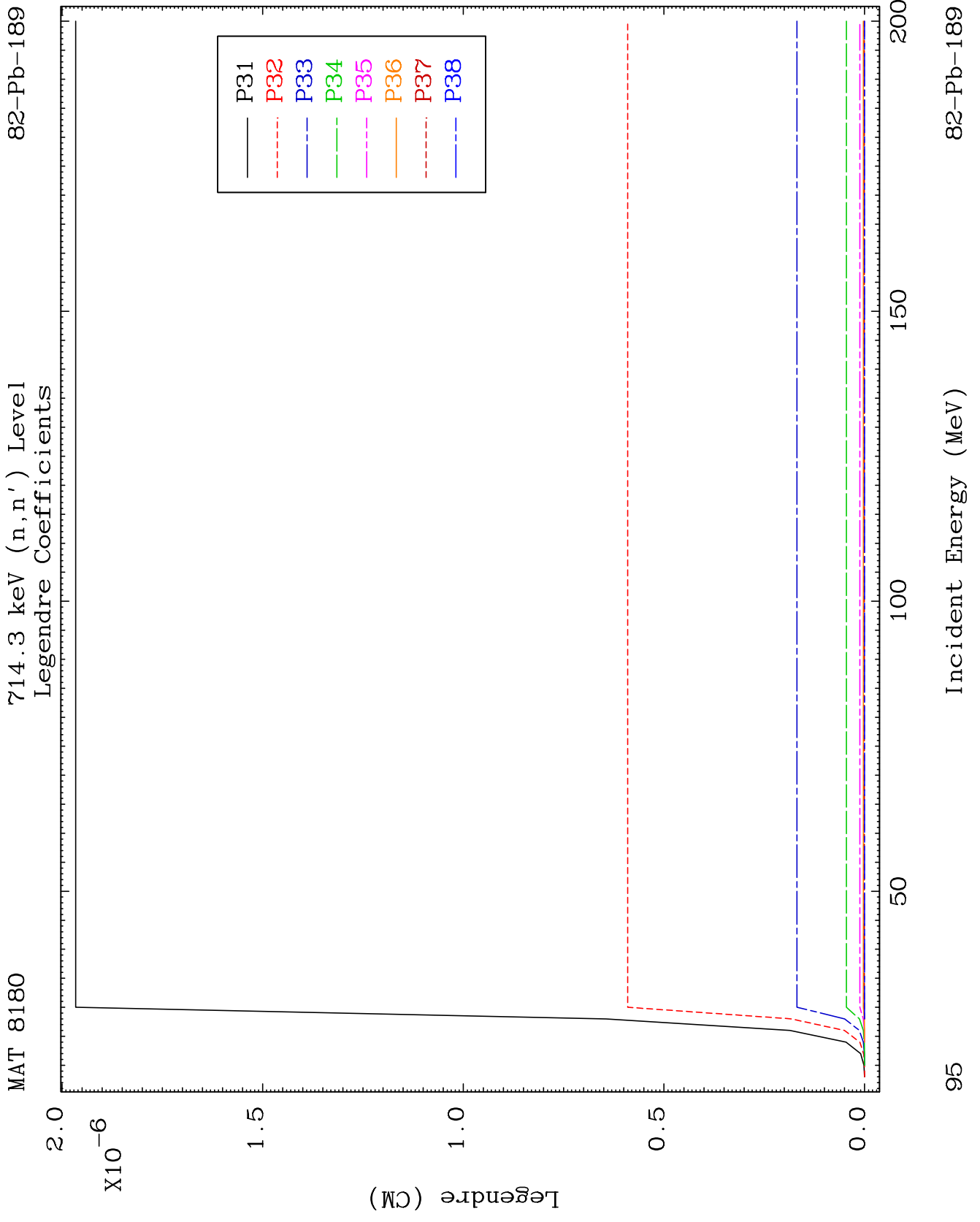
82-Pb-189



94

Incident Energy (MeV)

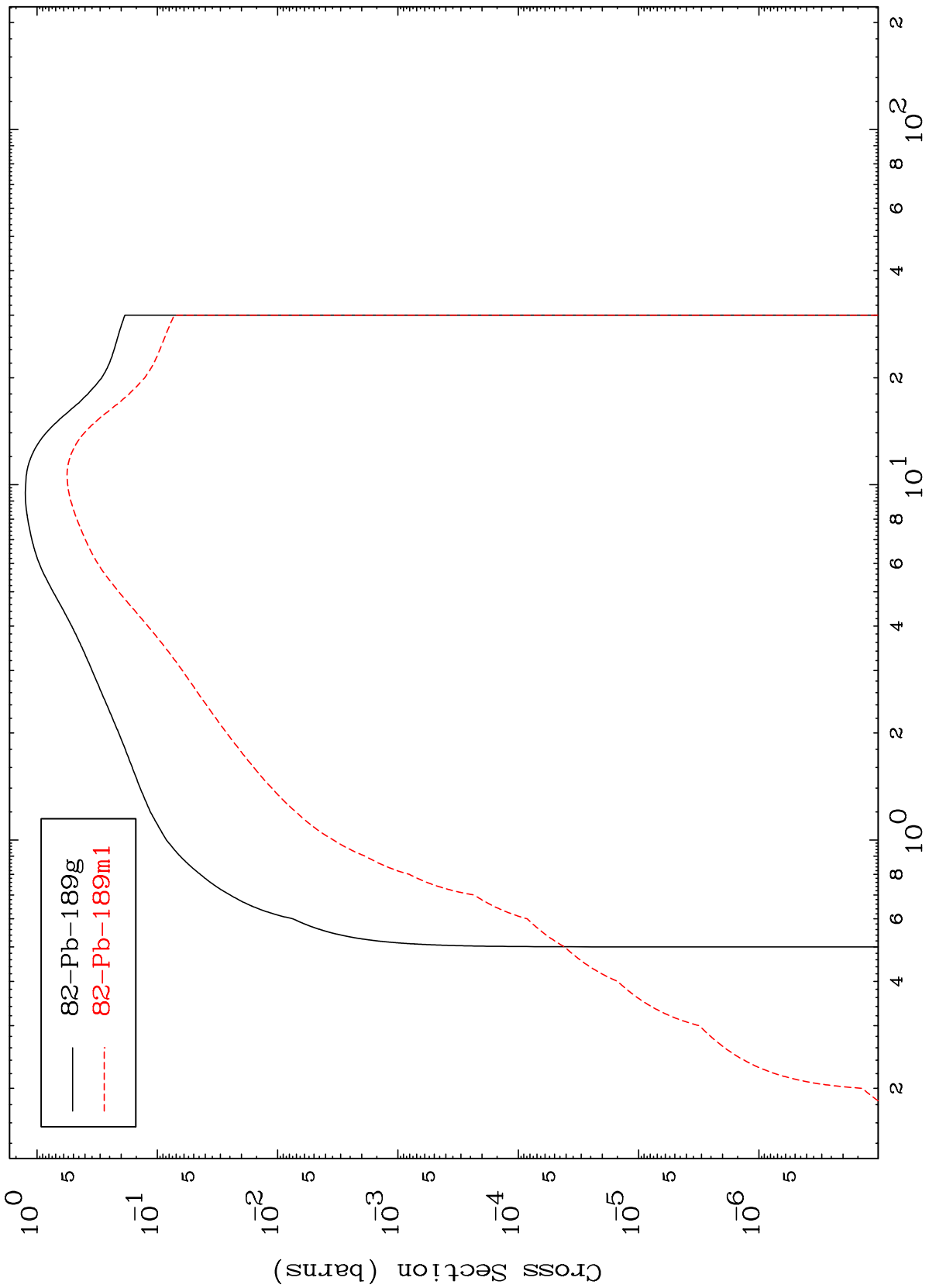
82-Pb-189



MAT 8180

82-Pb-189

Inelastic
Radionuclide Production Cross Section



82-Pb-189g
82-Pb-189m1

96

82-Pb-189

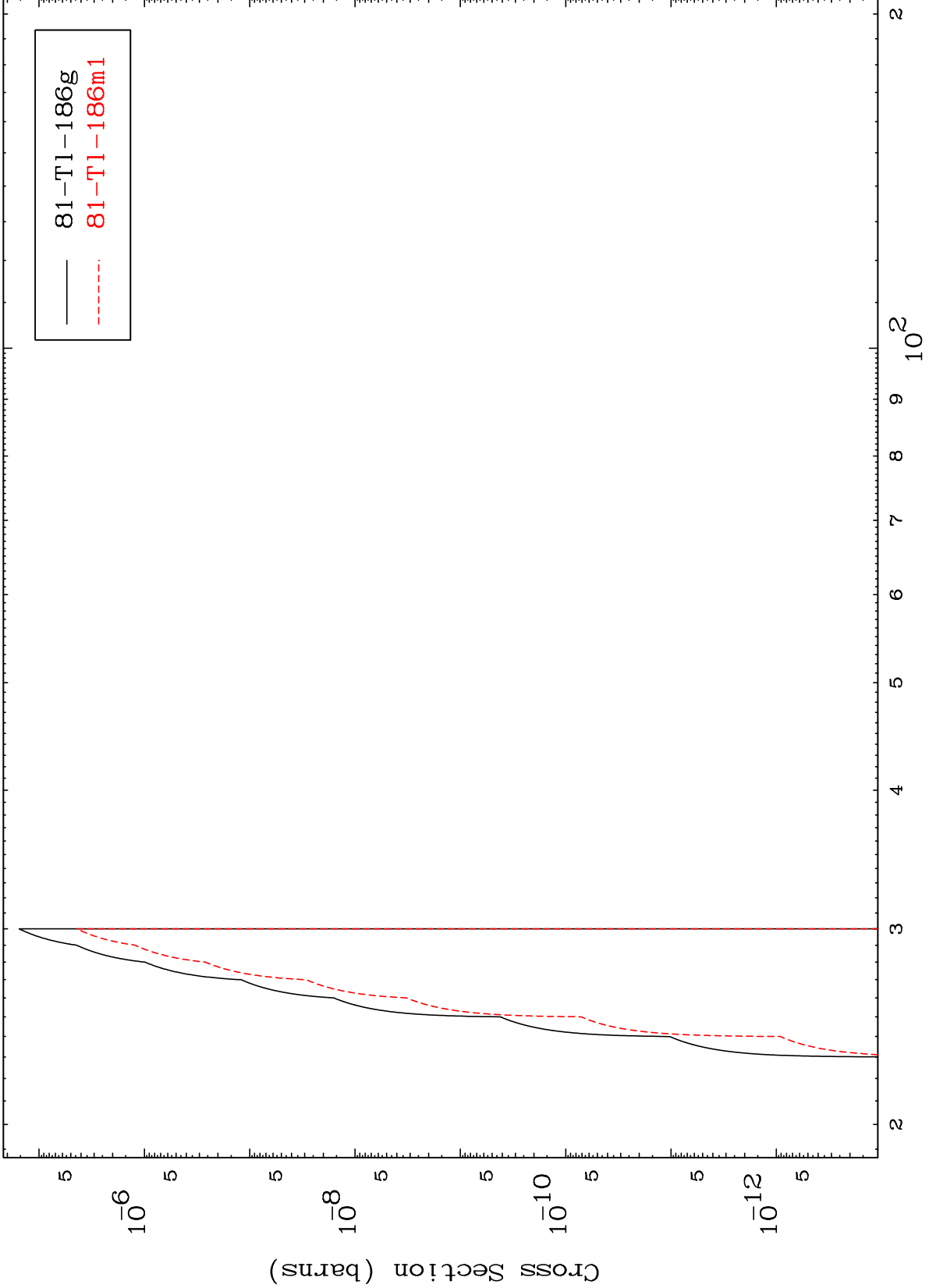
Incident Energy (MeV)

MAT 8180

(n,2n) d

82-Pb-189

Radionuclide Production Cross Section



97

Incident Energy (MeV)

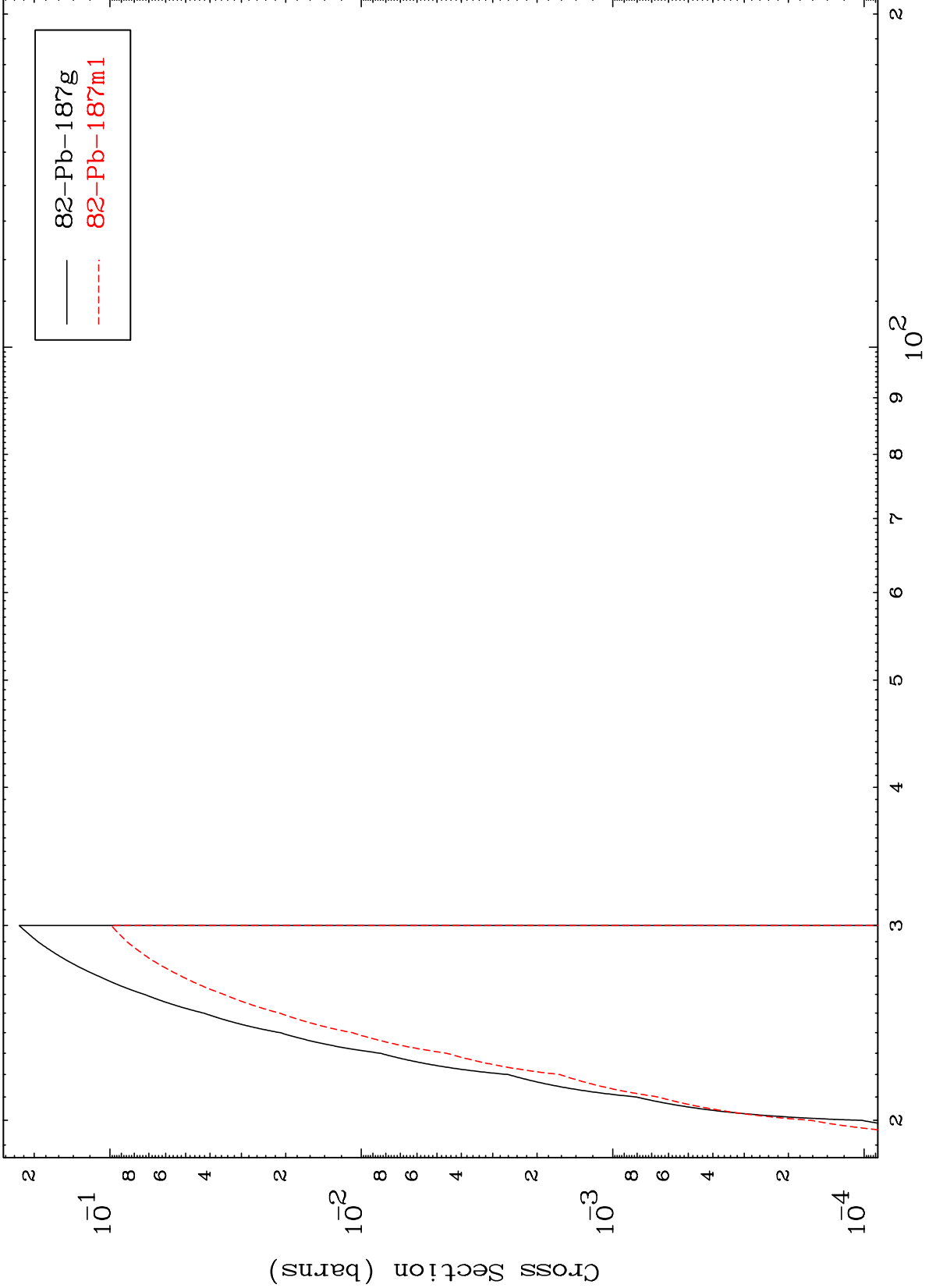
82-Pb-189

MAT 8180

(n,3n)

82-Pb-189

Radionuclide Production Cross Section



98

Incident Energy (MeV)

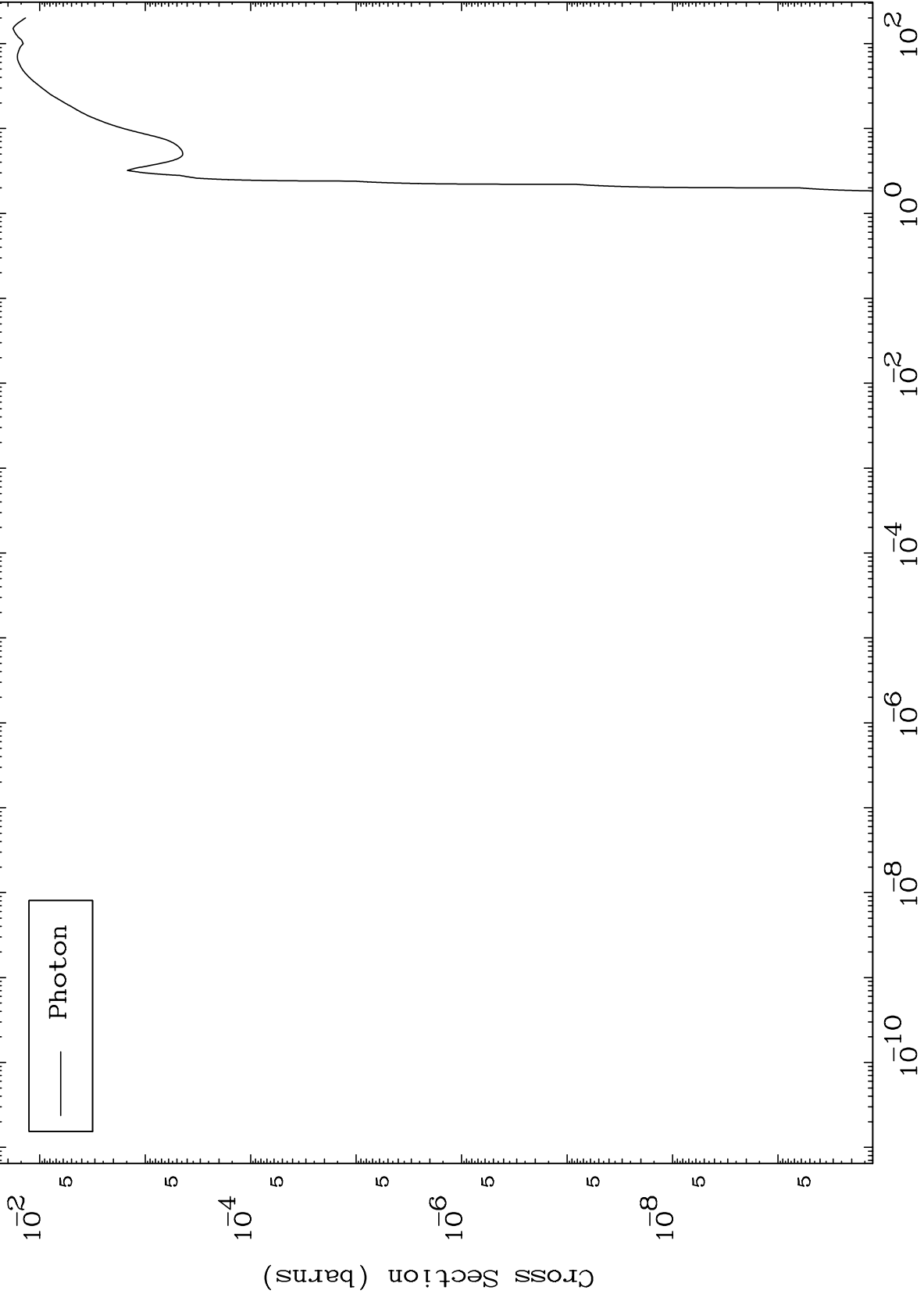
82-Pb-189

MAT 8180

Fission

82-Pb-189

Radionuclide Production Cross Section



99

Incident Energy (MeV)

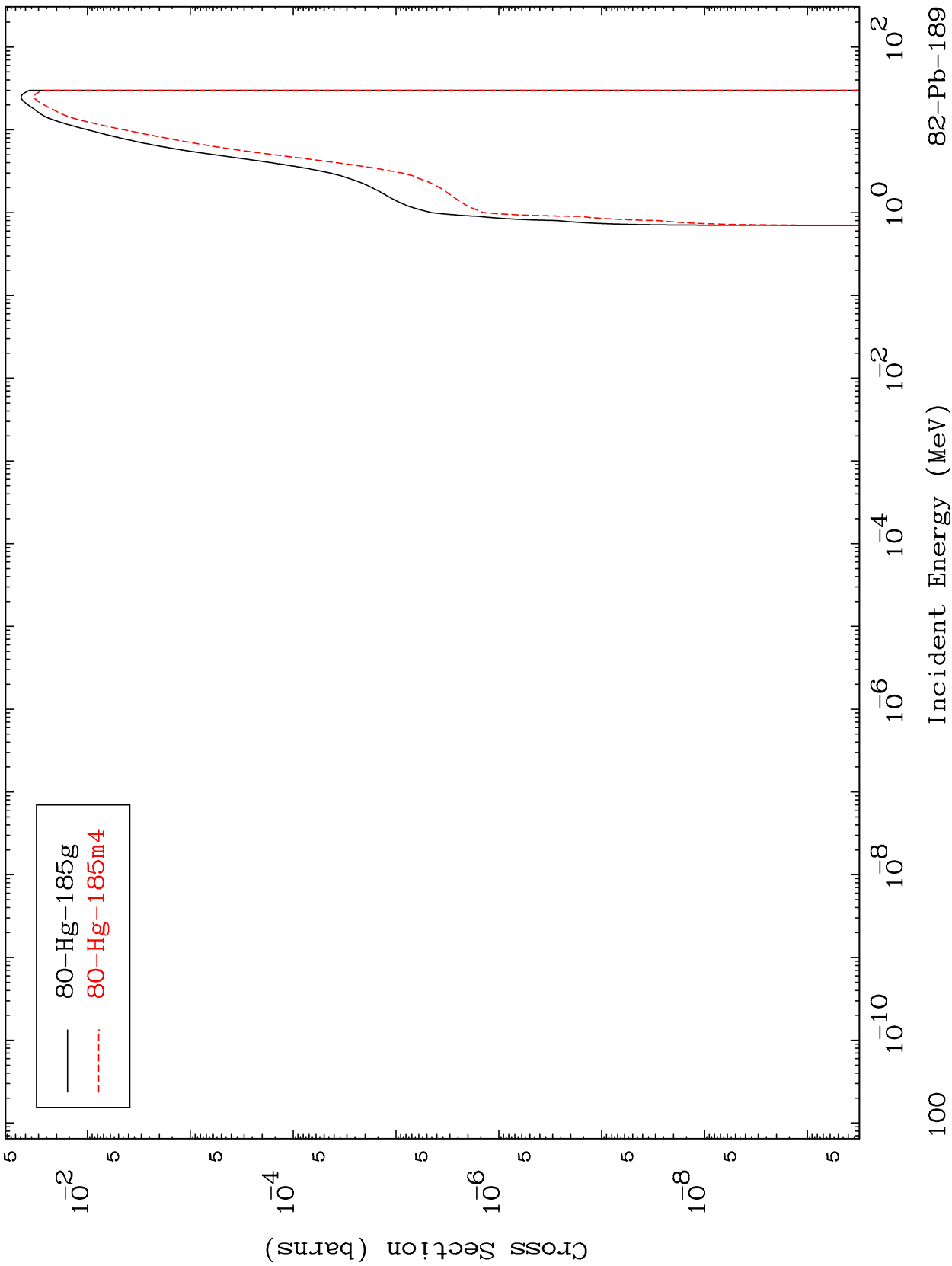
82-Pb-189

MAT 8180

$(n, n') \alpha$

82-Pb-189

Radionuclide Production Cross Section



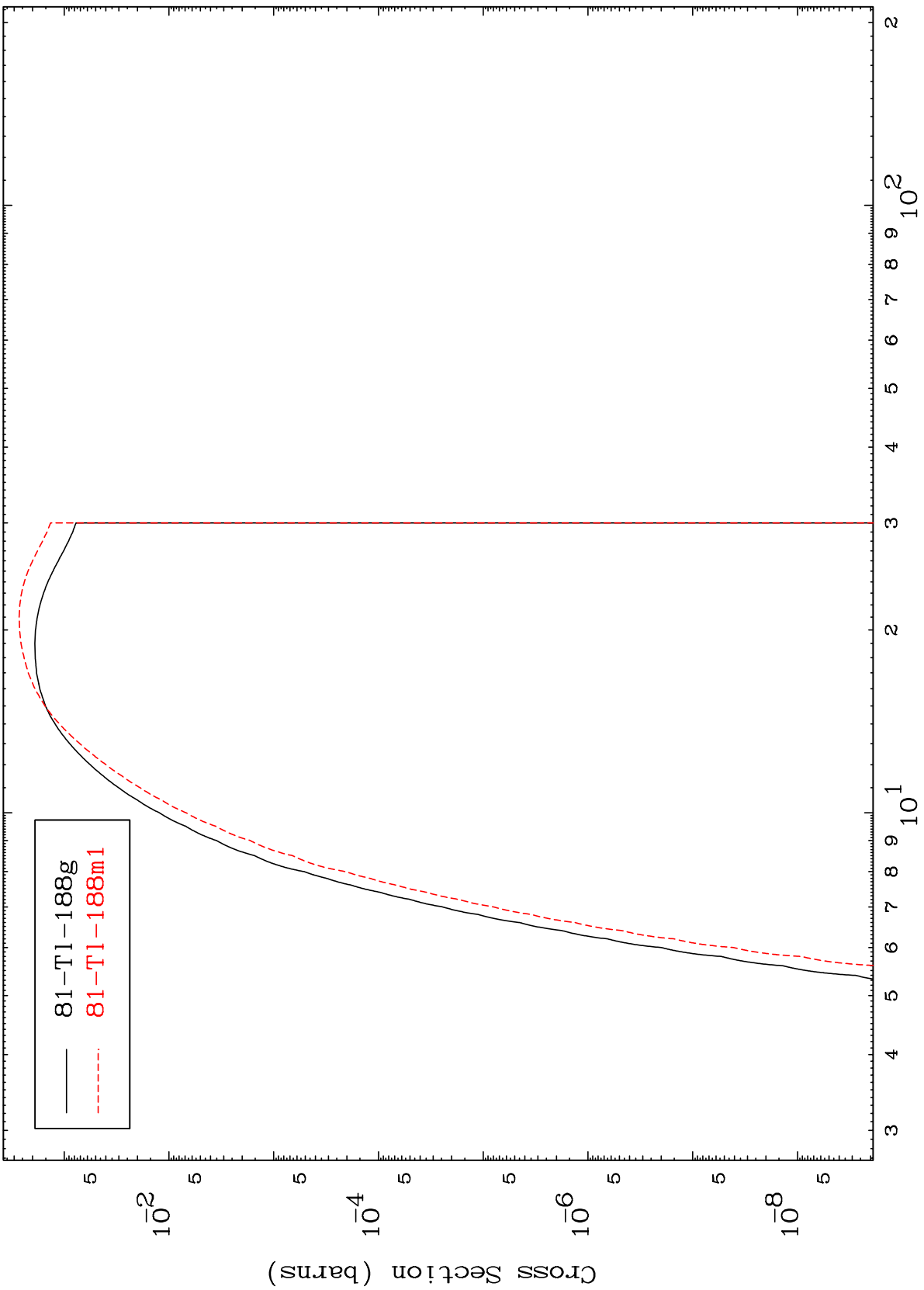
80-Hg-185g
80-Hg-185m4

MAT 8180

(n,n') p

82-Pb-189

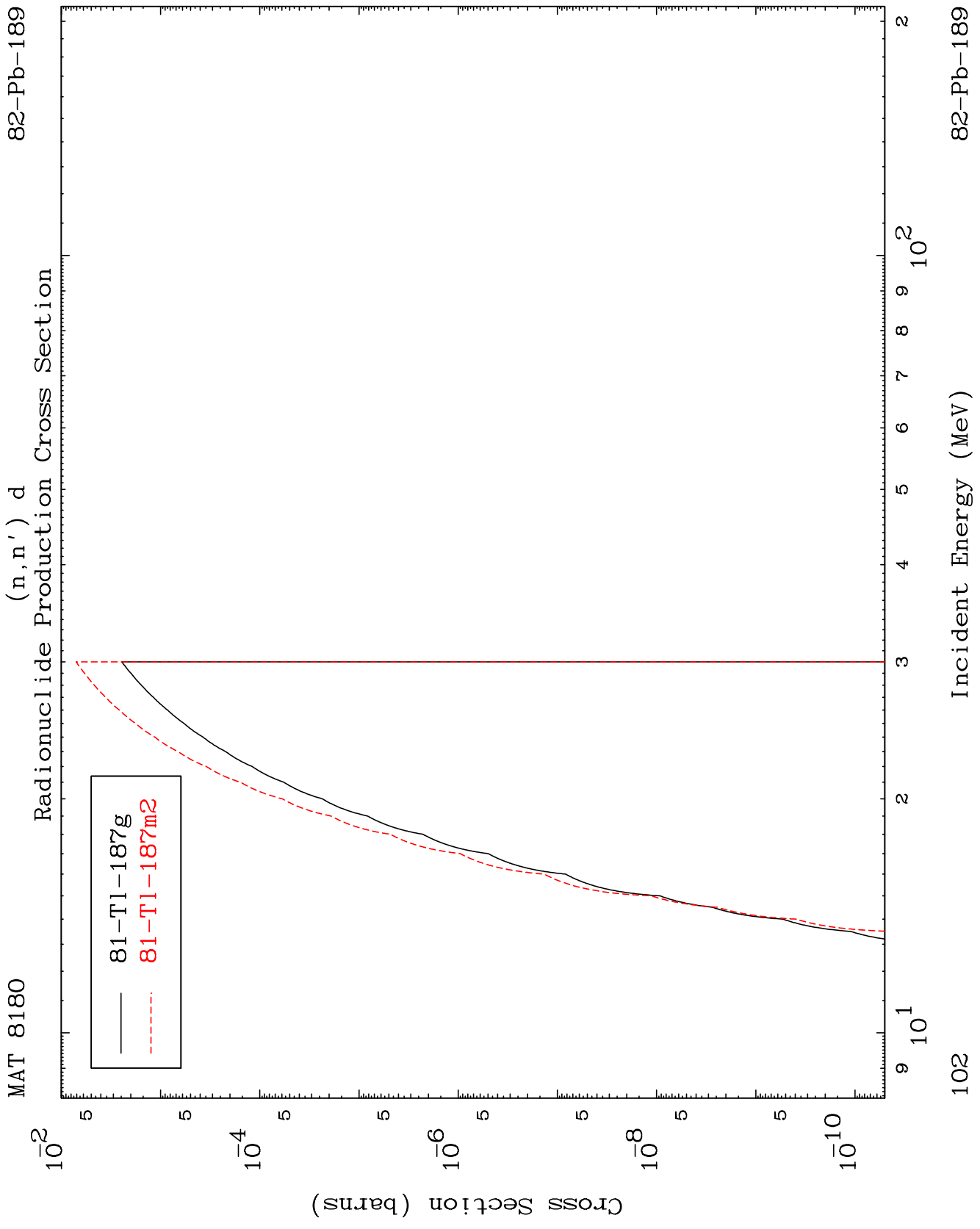
Radionuclide Production Cross Section



101

Incident Energy (MeV)

82-Pb-189

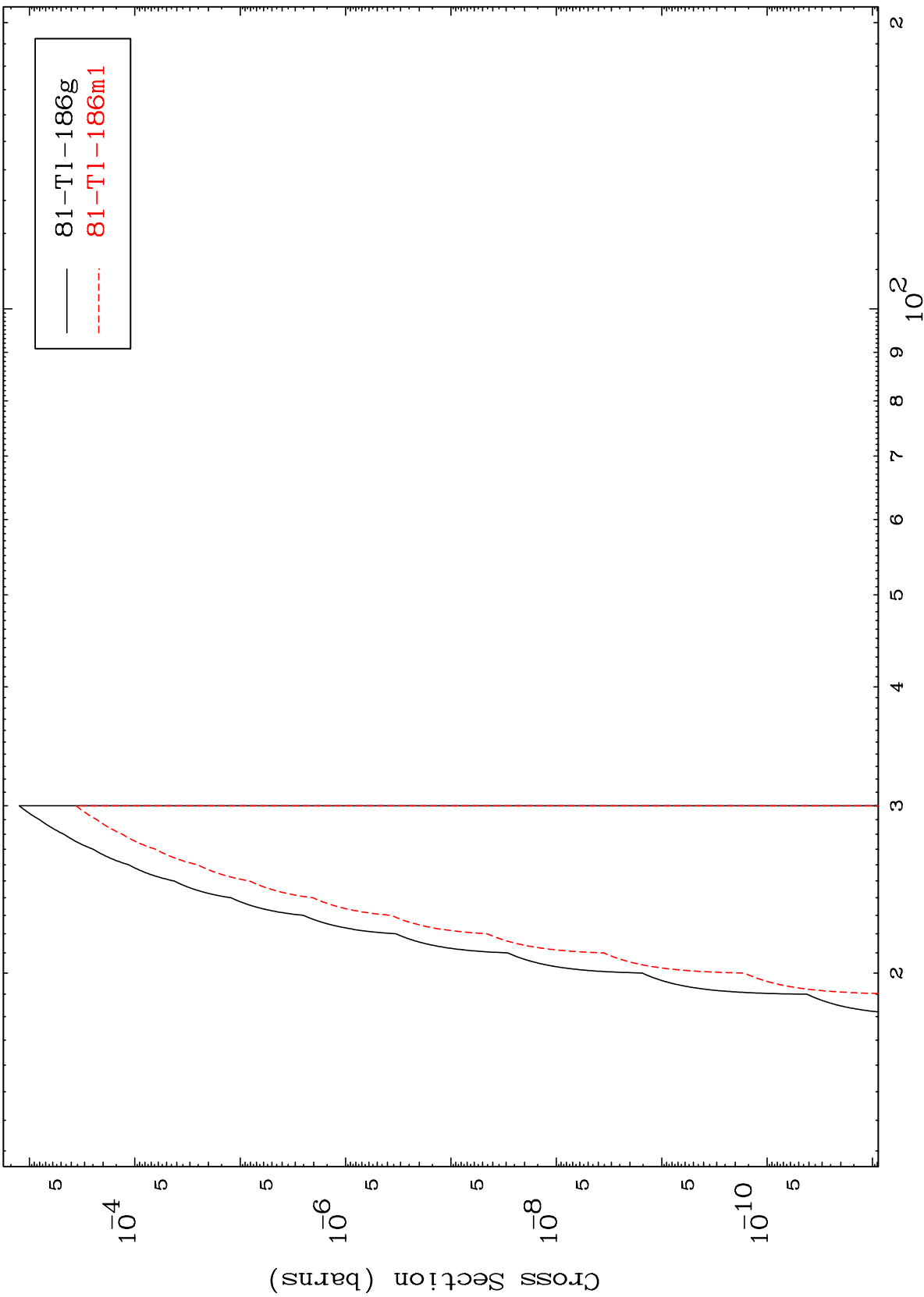


MAT 8180

(n,n') t

82-Pb-189

Radionuclide Production Cross Section



103

Incident Energy (MeV)

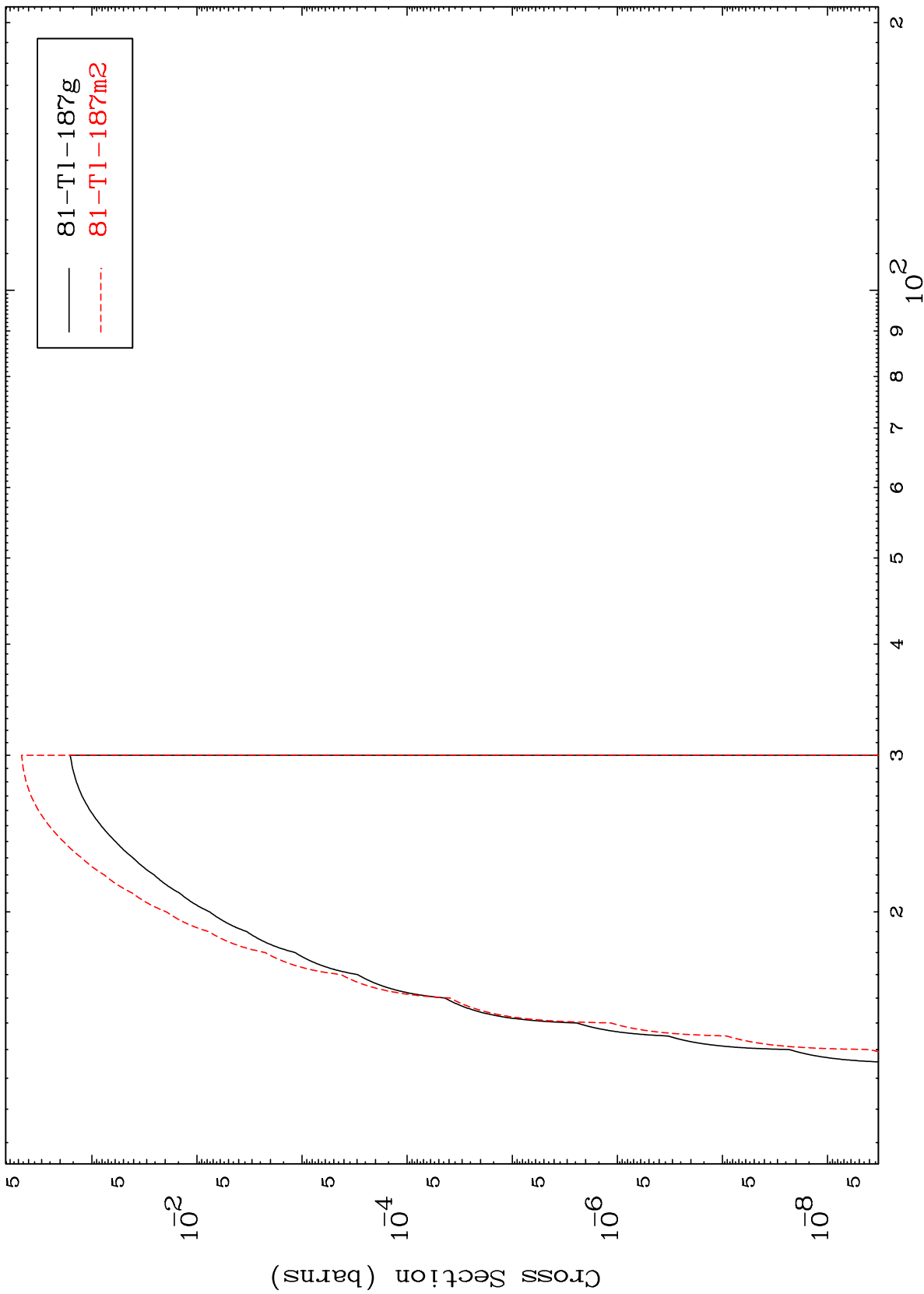
82-Pb-189

MAT 8180

(n,2n) p

82-Pb-189

Radionuclide Production Cross Section



104

Incident Energy (MeV)

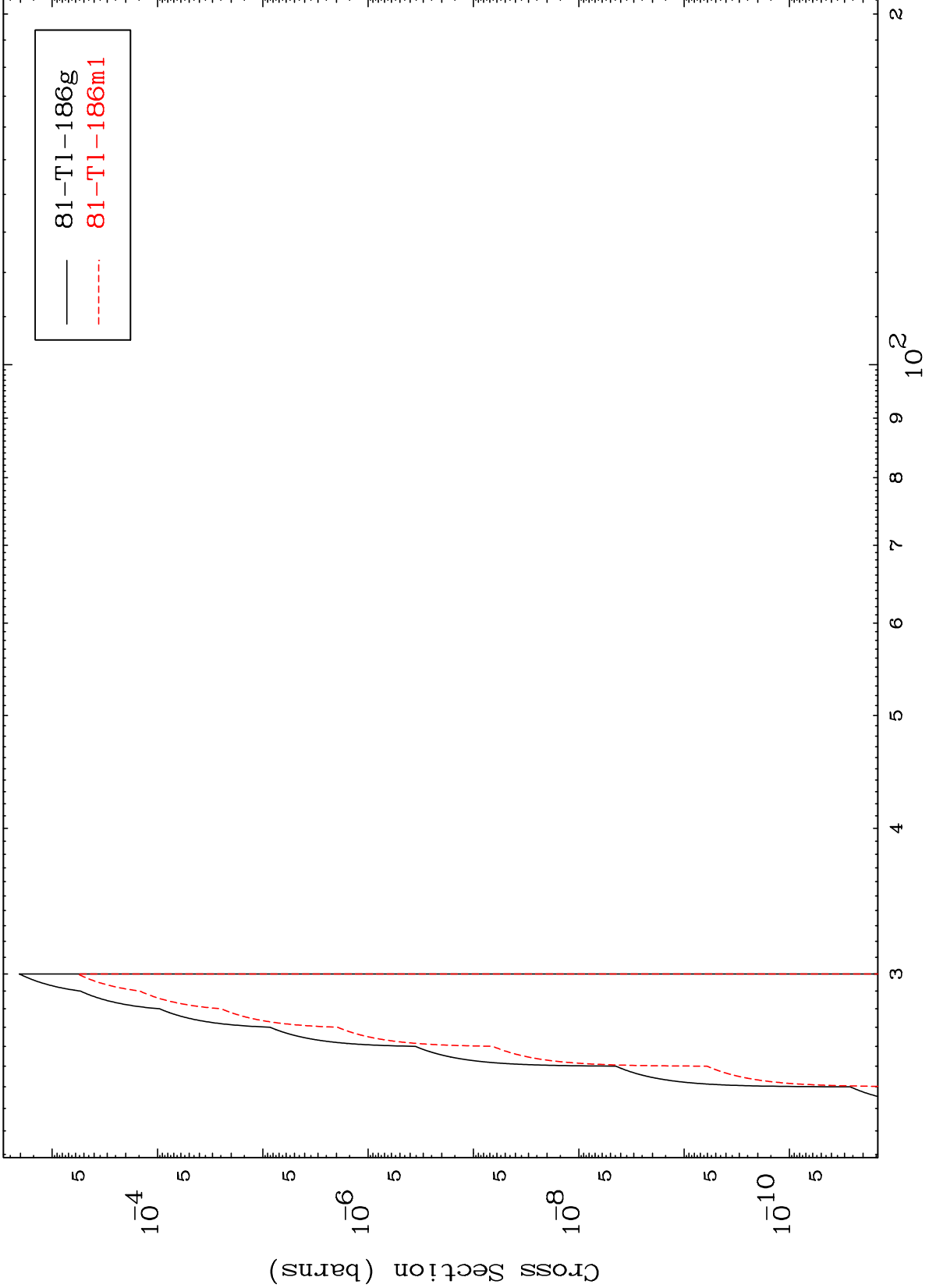
82-Pb-189

MAT 8180

(n,3n) p

82-Pb-189

Radionuclide Production Cross Section



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

105

Incident Energy (MeV)

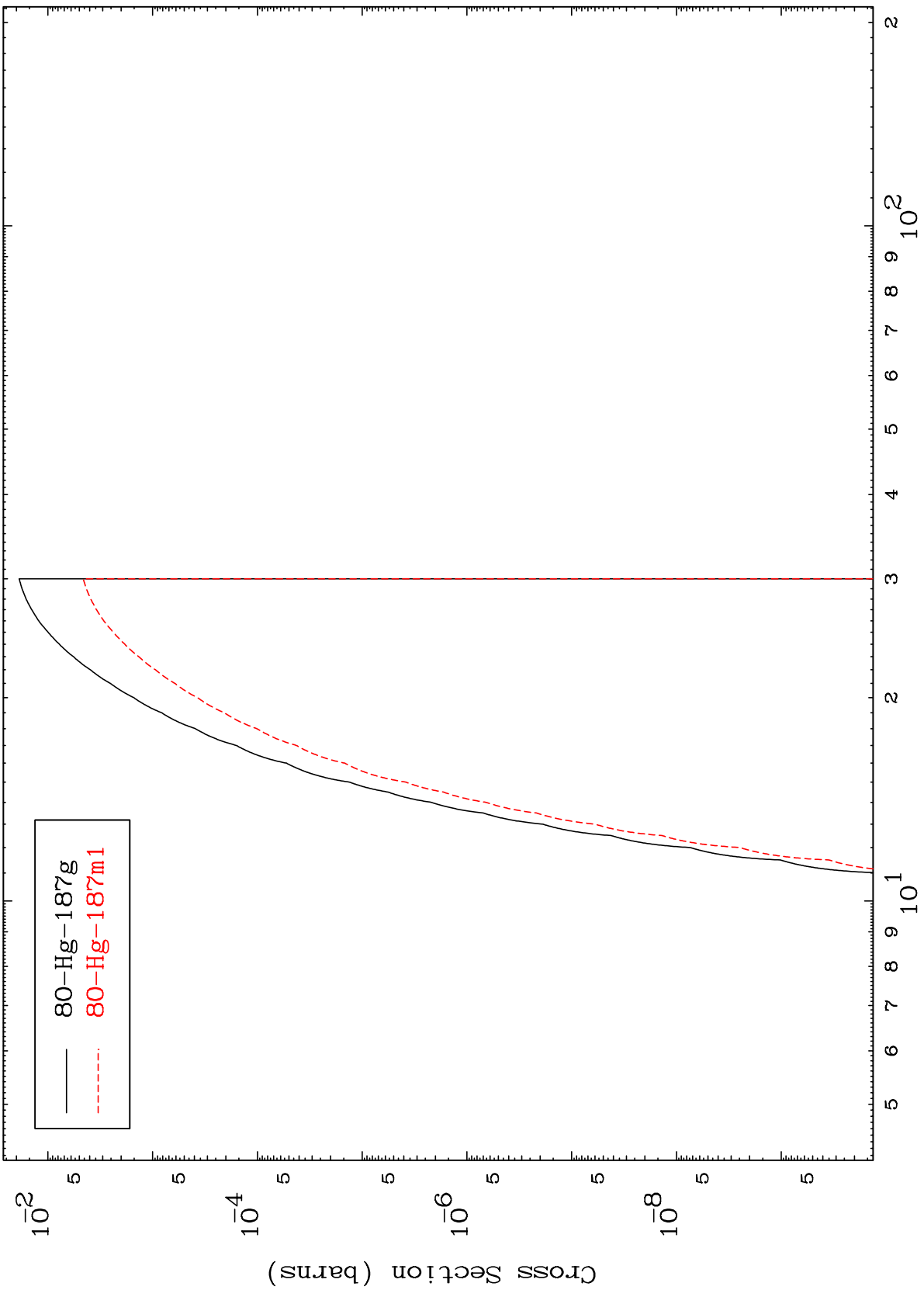
82-Pb-189

MAT 8180

(n,2n) p

82-Pb-189

Radionuclide Production Cross Section



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

106

Incident Energy (MeV)

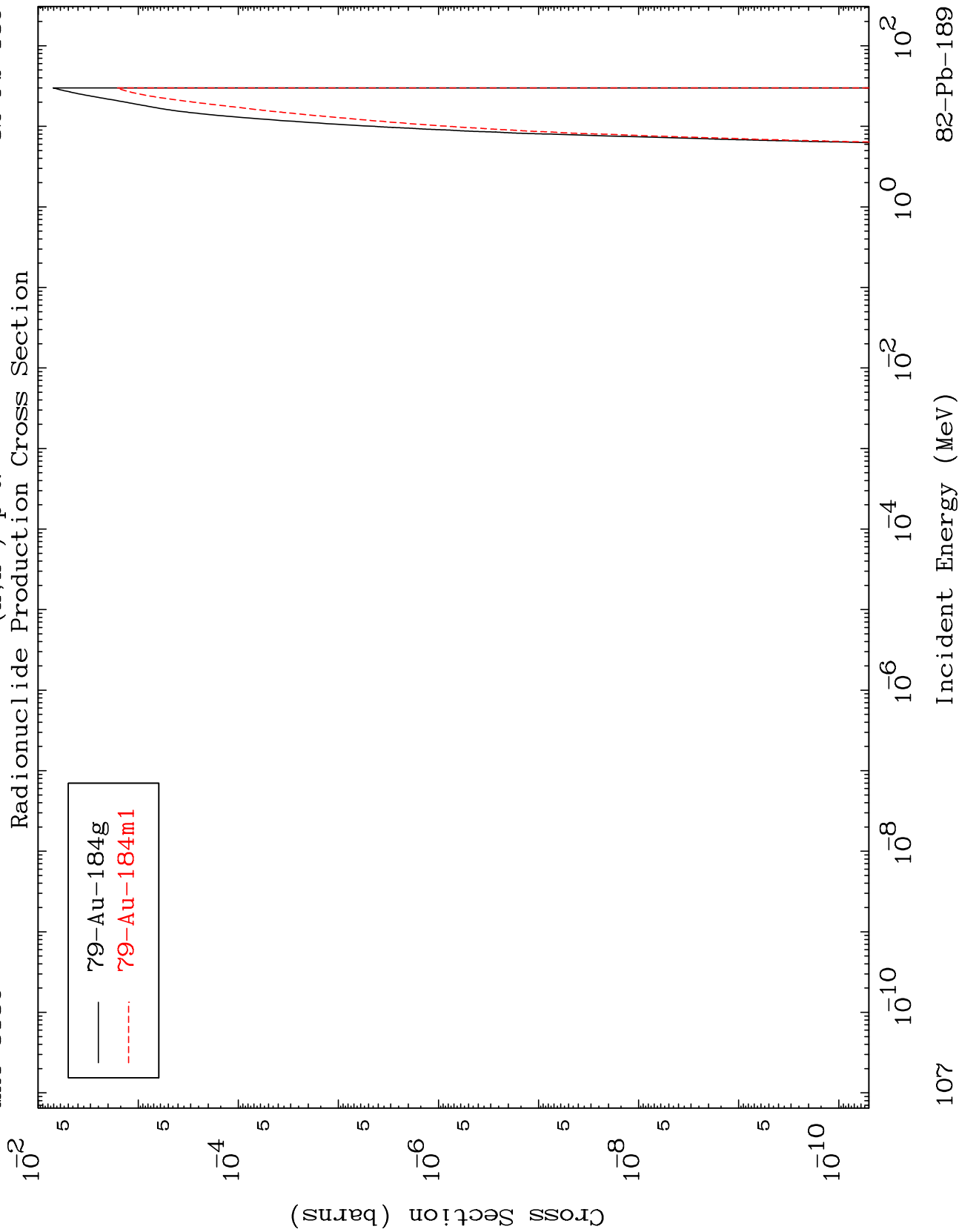
82-Pb-189

MAT 8180

(n,n') p α

82-Pb-189

Radionuclide Production Cross Section



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

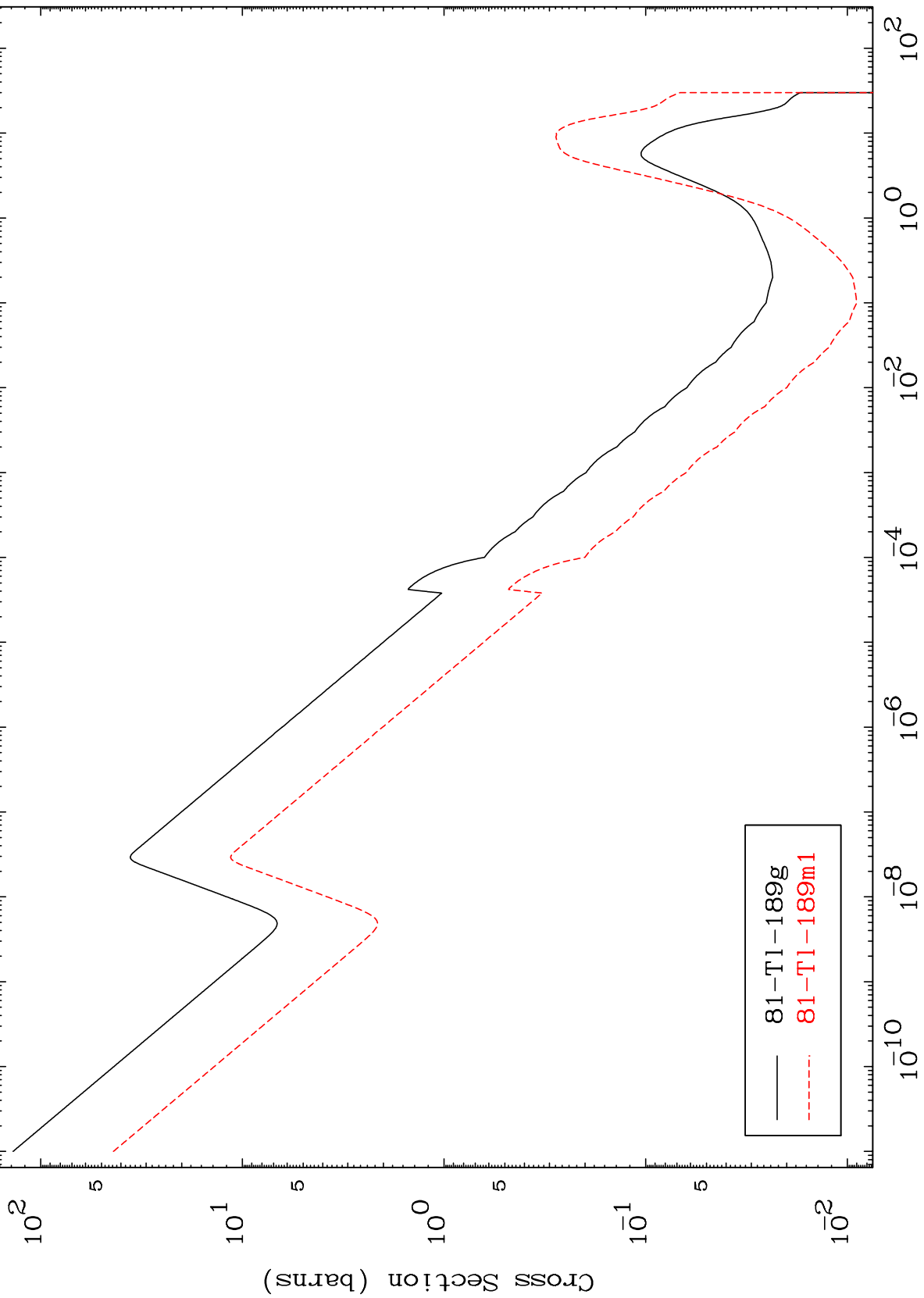
107

82-Pb-189

MAT 8180

82-Pb-189

Radionuclide Production Cross Section



108

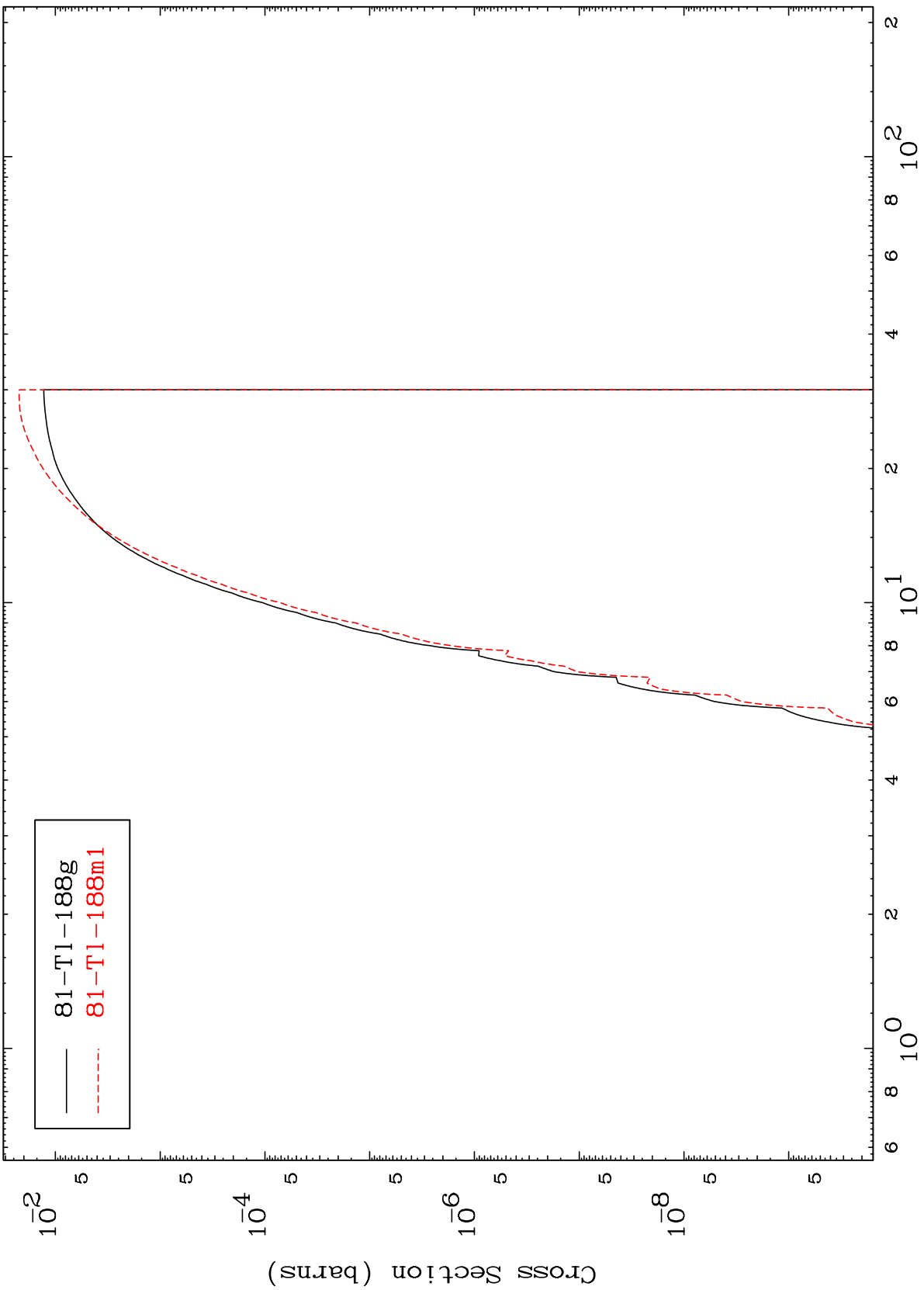
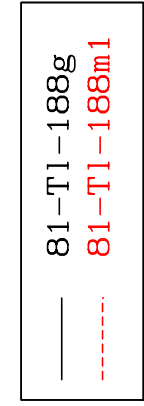
82-Pb-189

MAT 8180

(n,d)

82-Pb-189

Radionuclide Production Cross Section



109

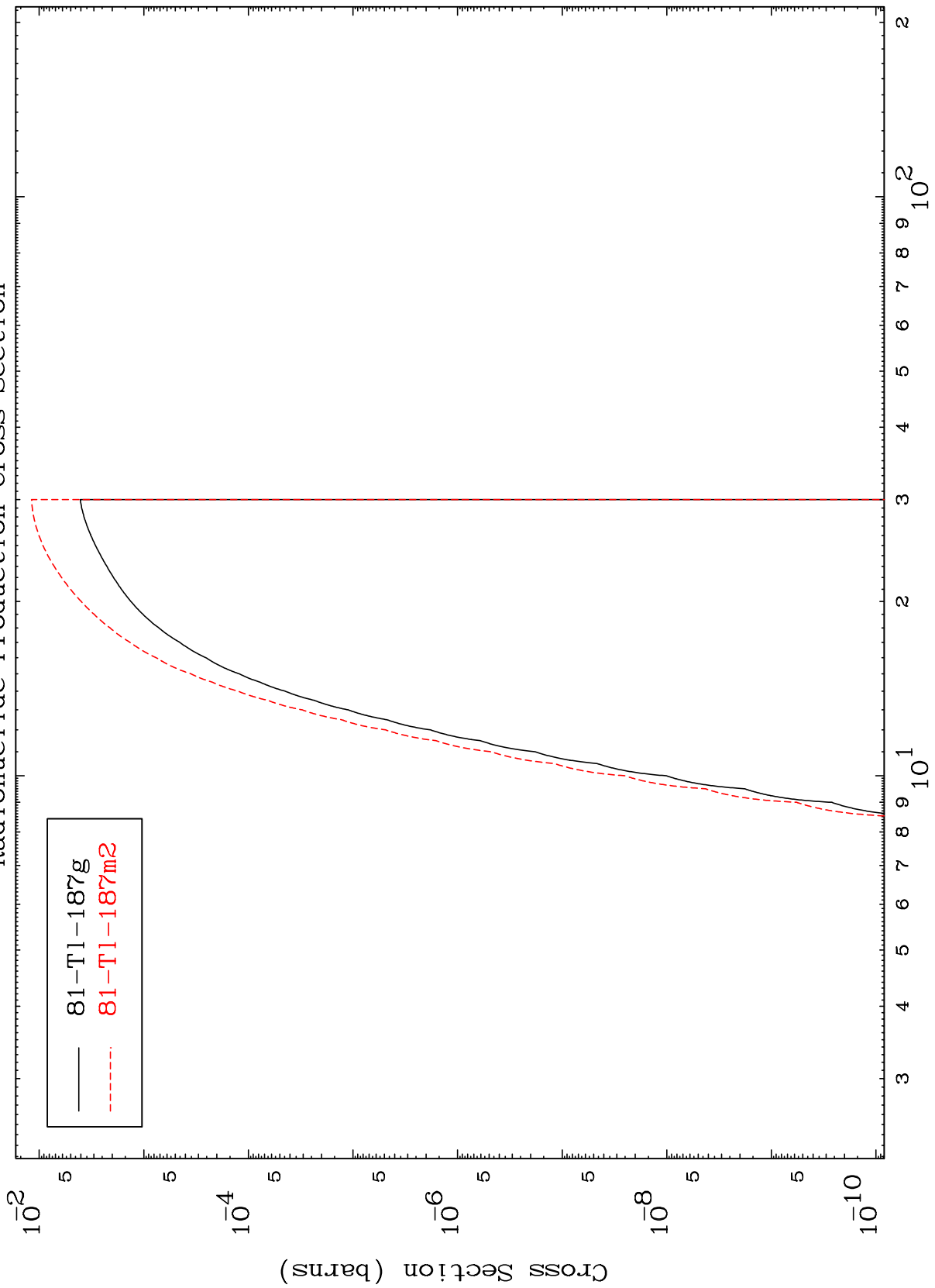
Incident Energy (MeV)

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)

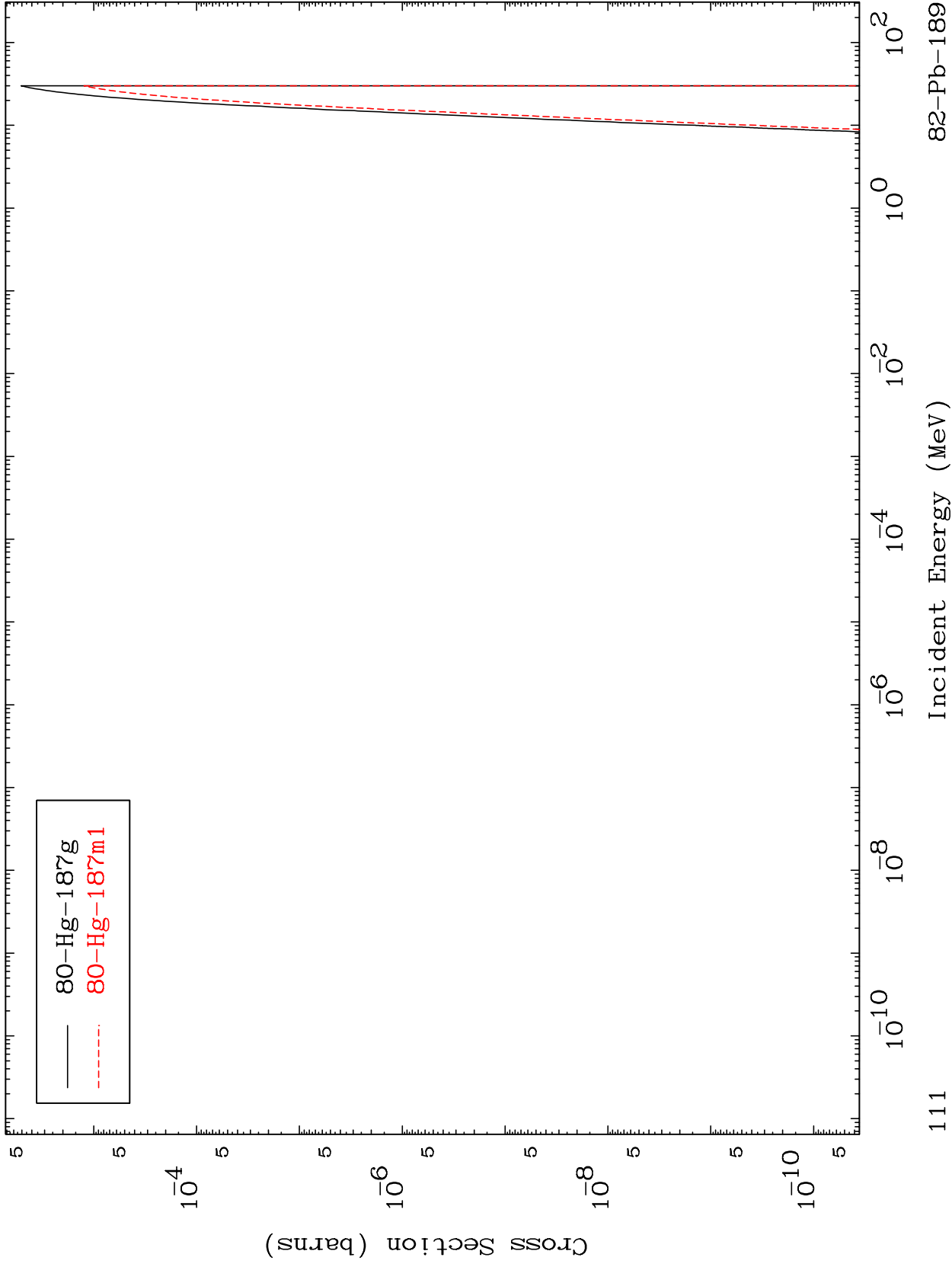
110

MAT 8180

(n,He-3)

82-Pb-189

Radionuclide Production Cross Section



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

111

Incident Energy (MeV)

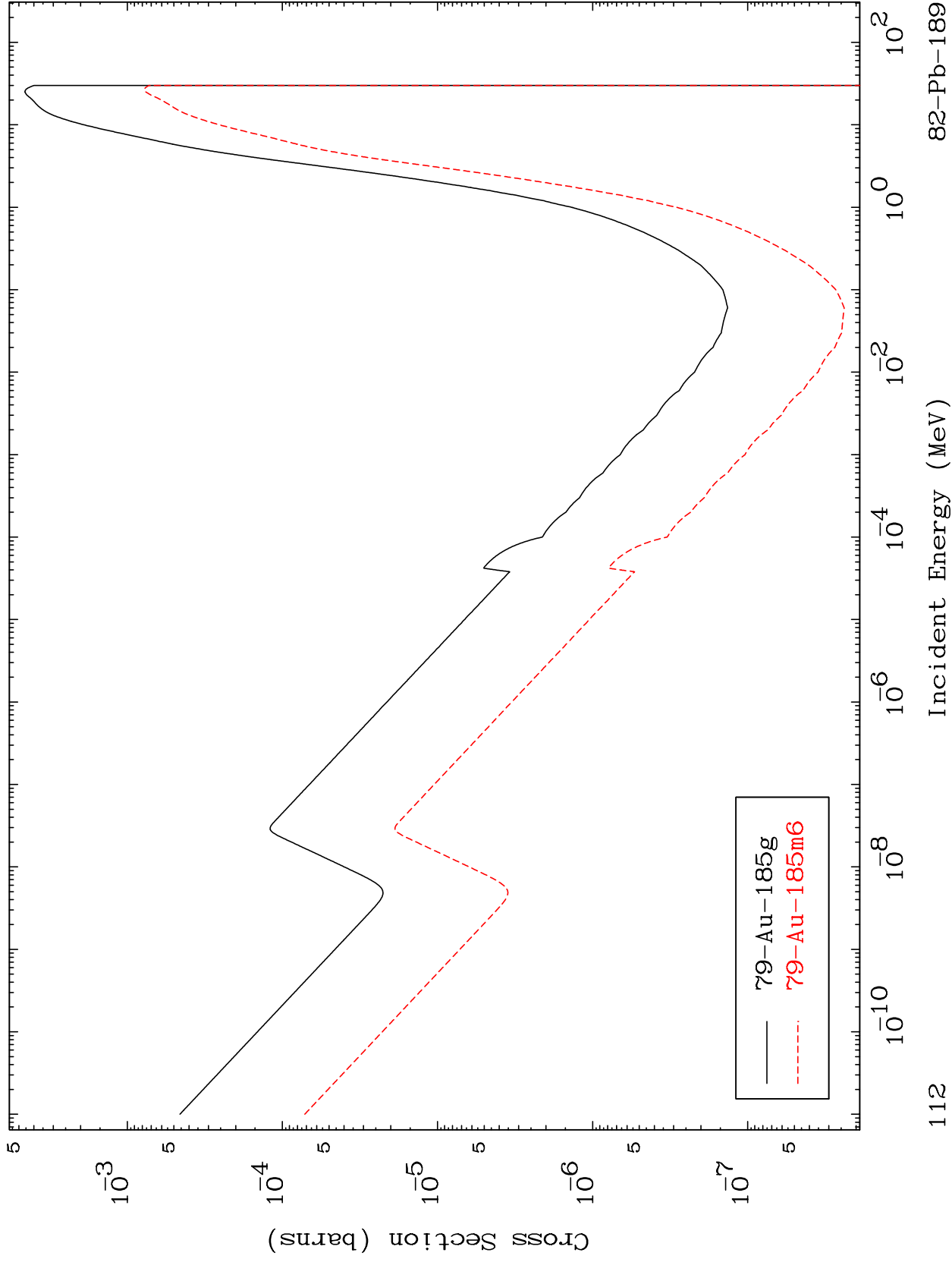
82-Pb-189

MAT 8180

(n,p) α

82-Pb-189

Radionuclide Production Cross Section

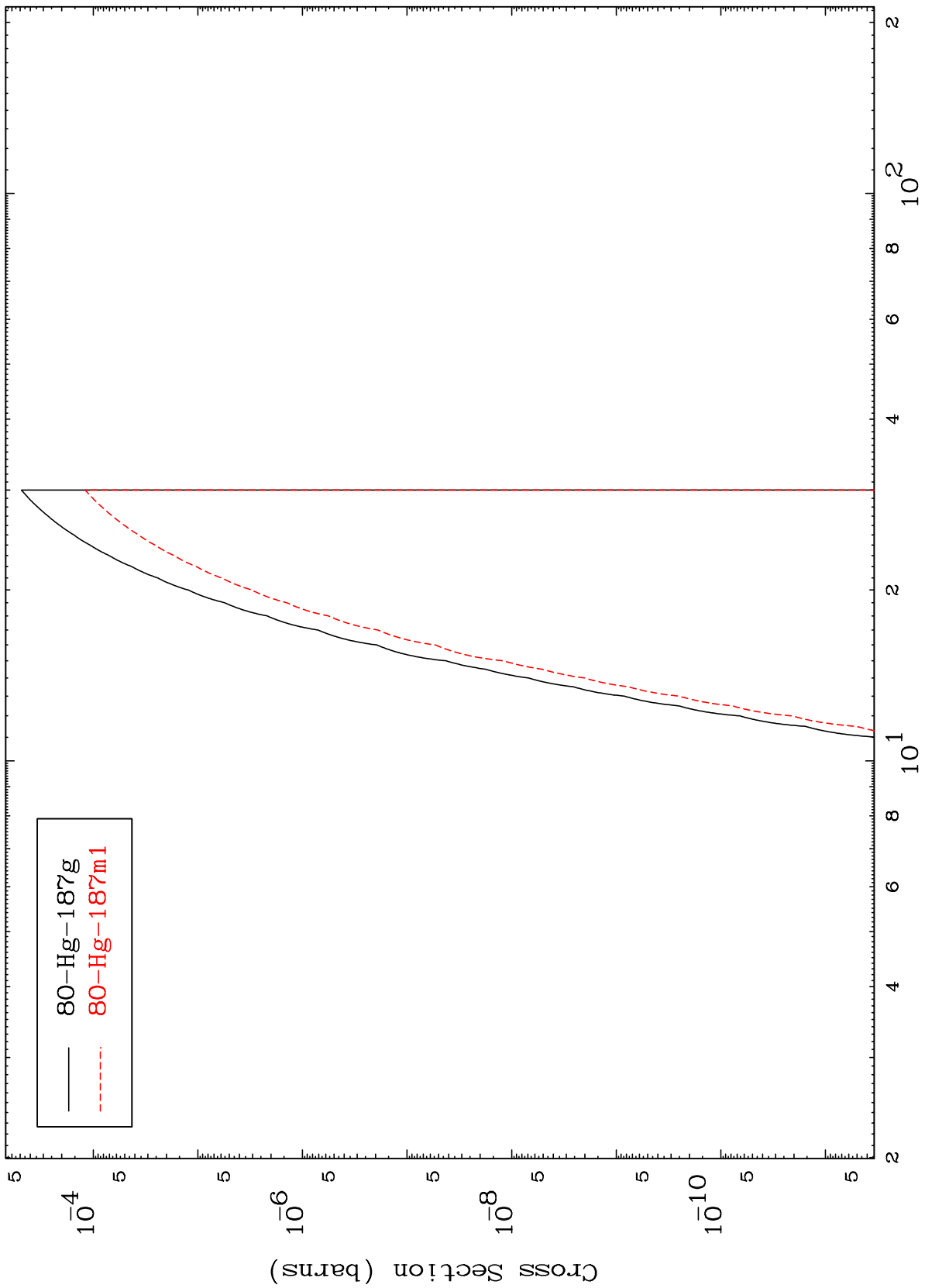


MAT 8180

(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

