

Program EVALPLOT
(Version 2015-2)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

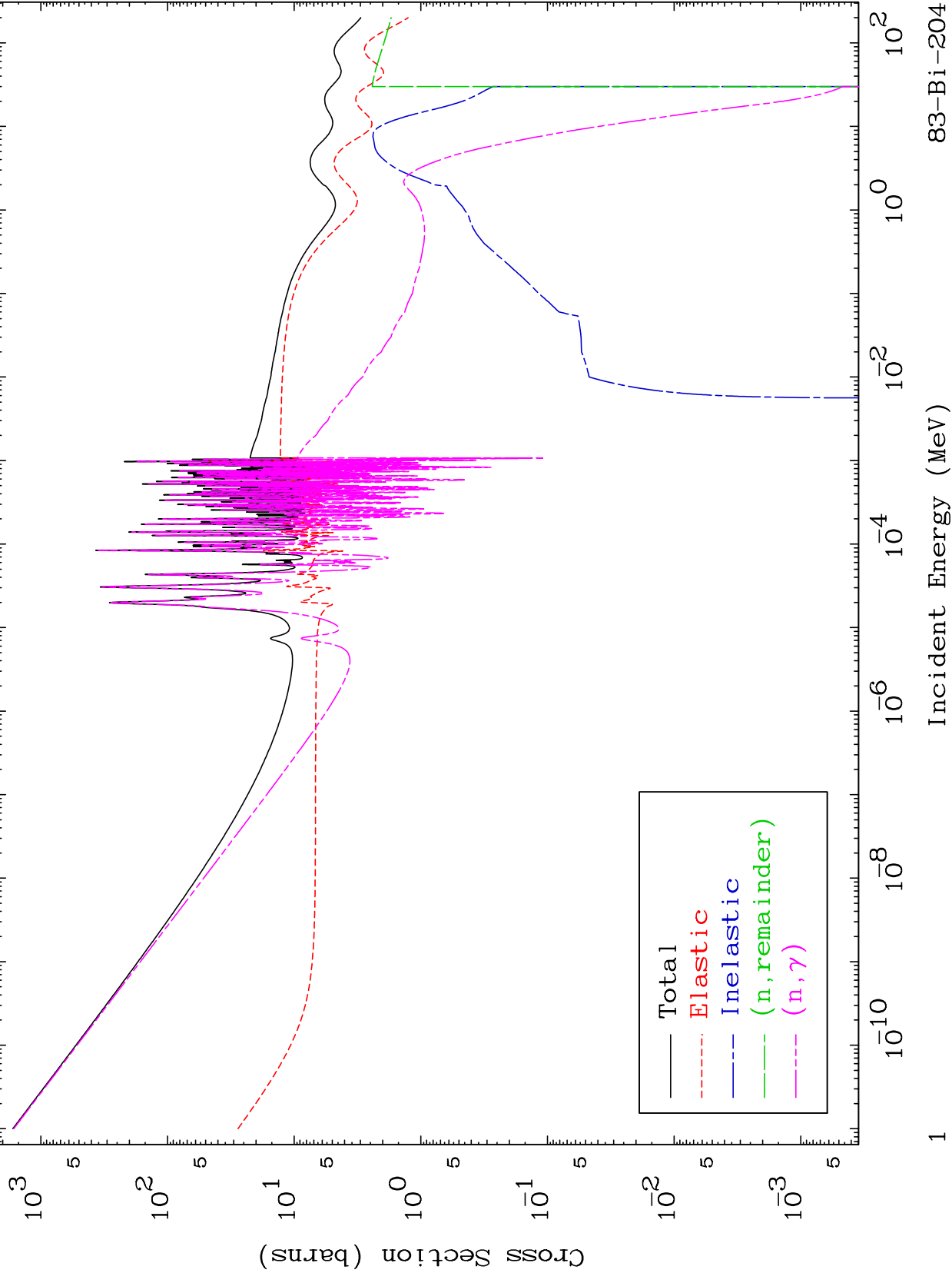
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 8310

Major
293 Kelvin Cross Sections

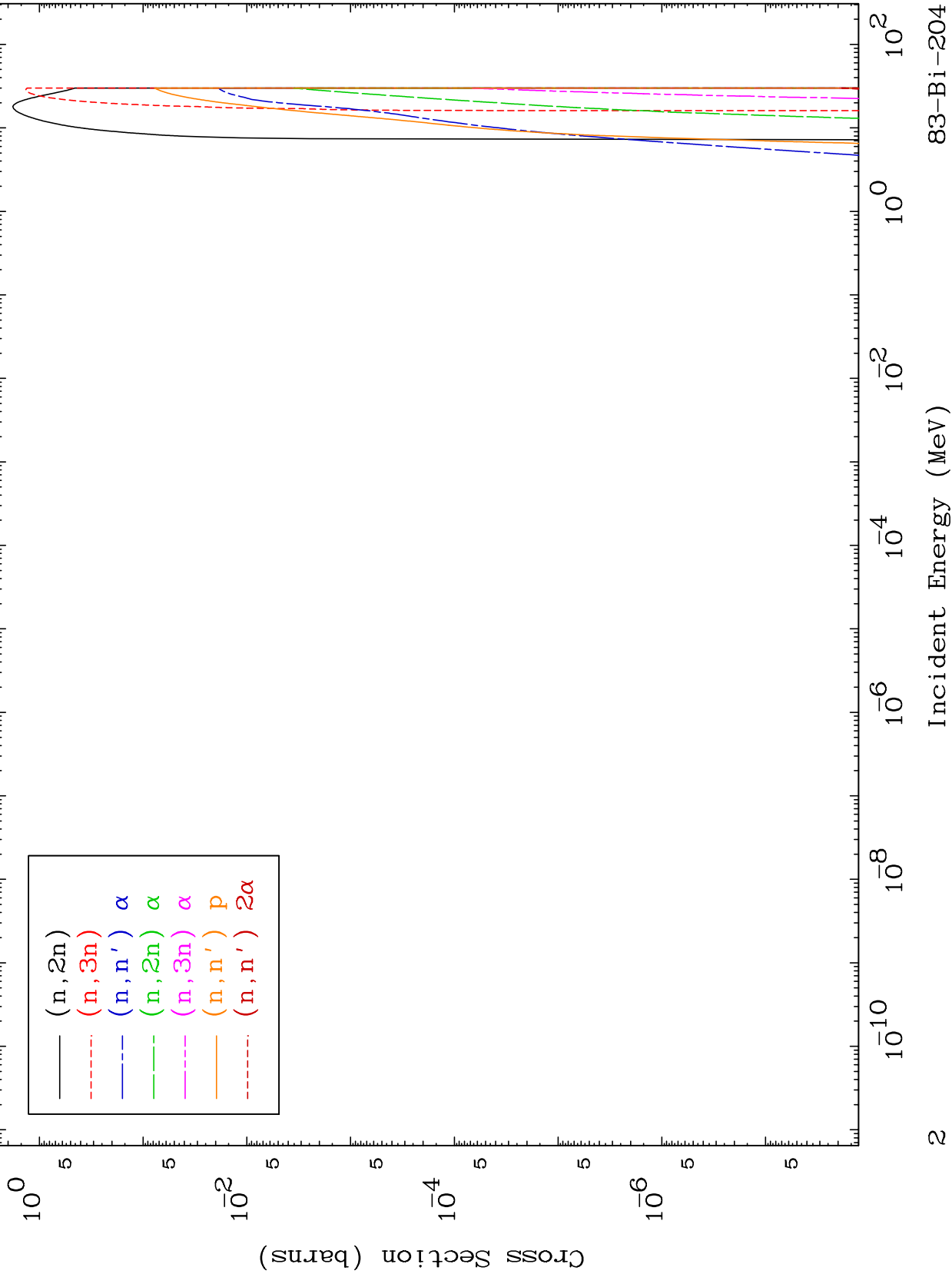
83-Bi-204

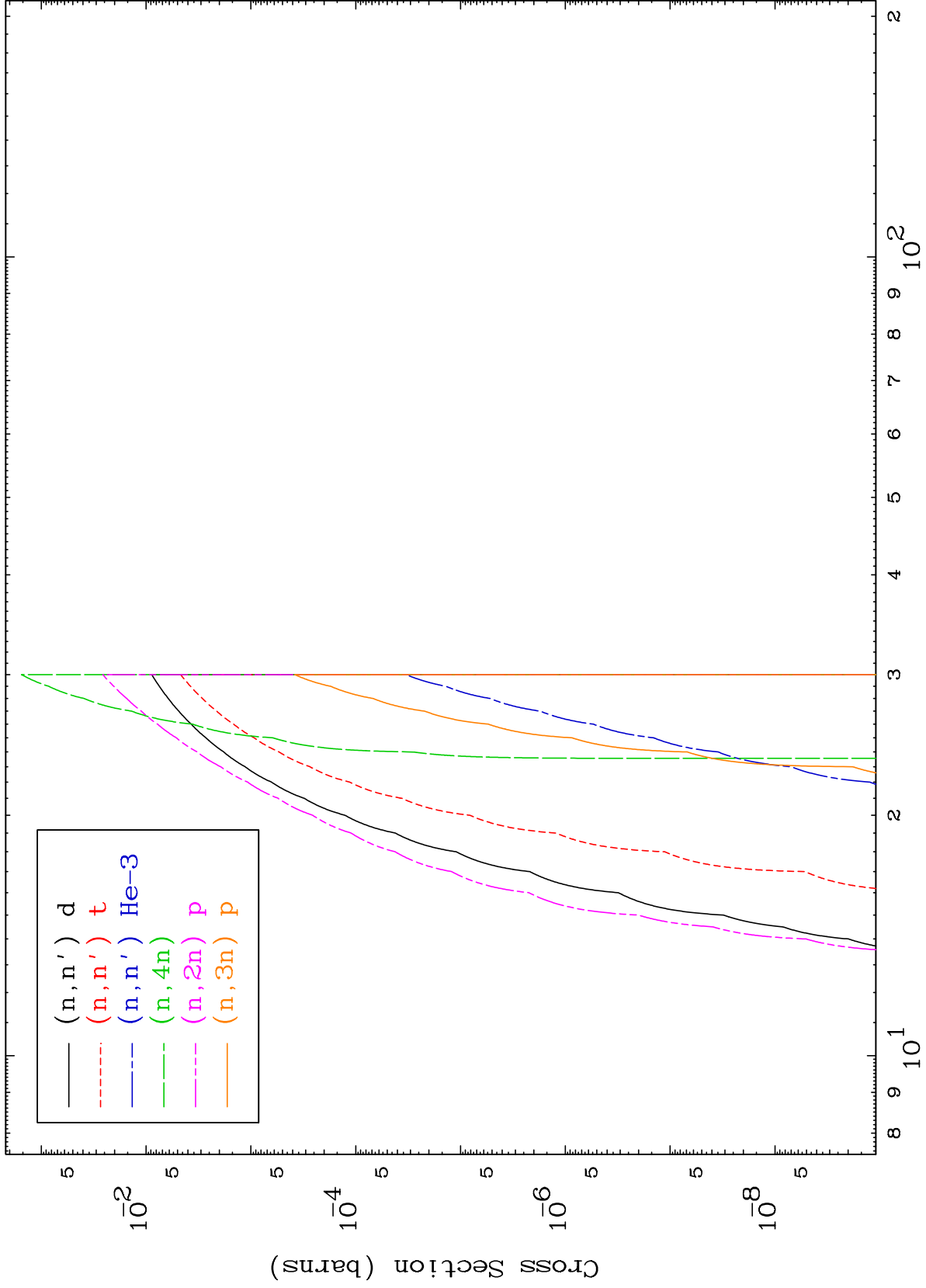


MAT 8310

Neutron Production
293 Kelvin Cross Sections

83-Bi-204

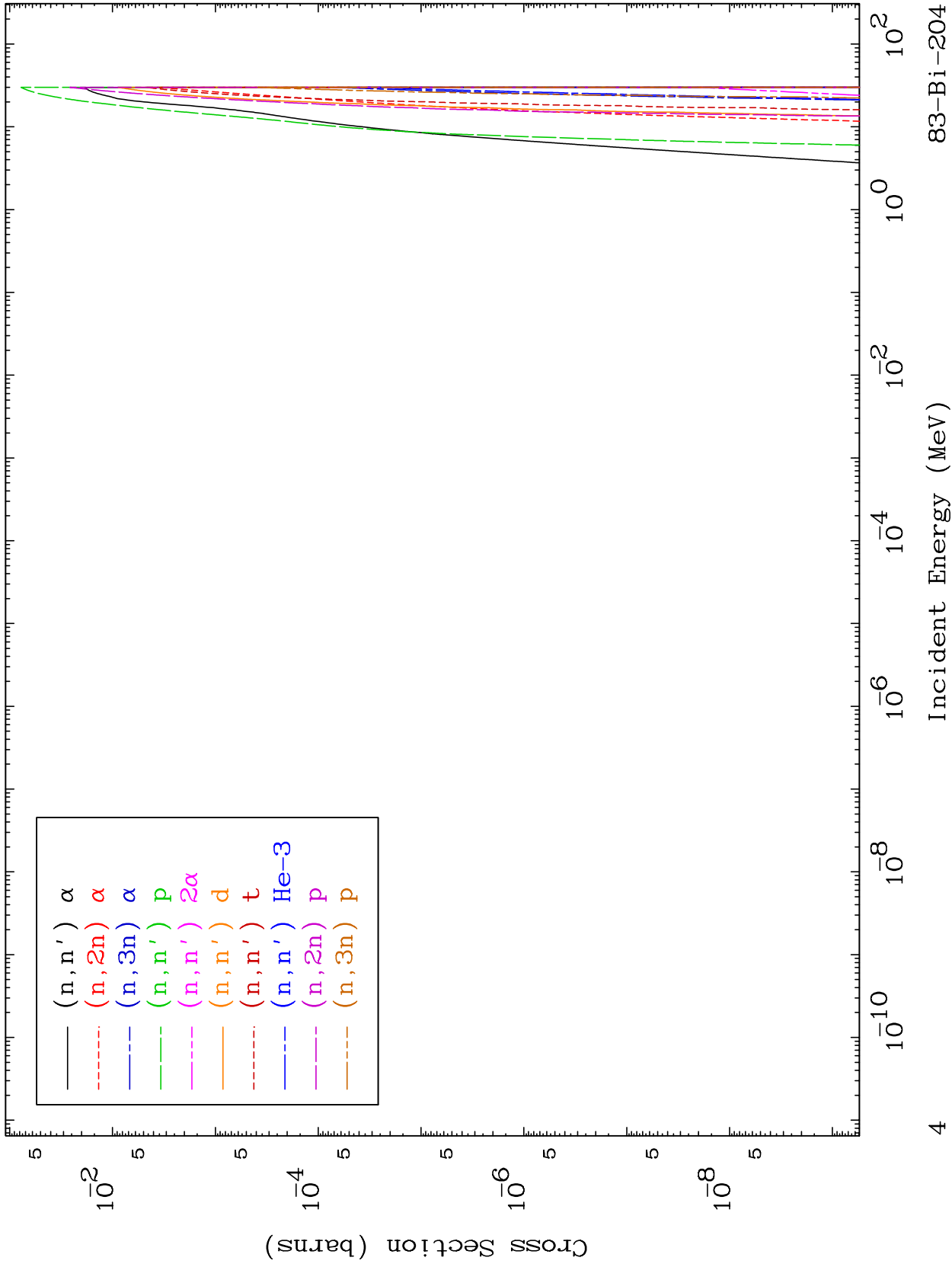




MAT 8310

Charged Particle
293 Kelvin Cross Sections

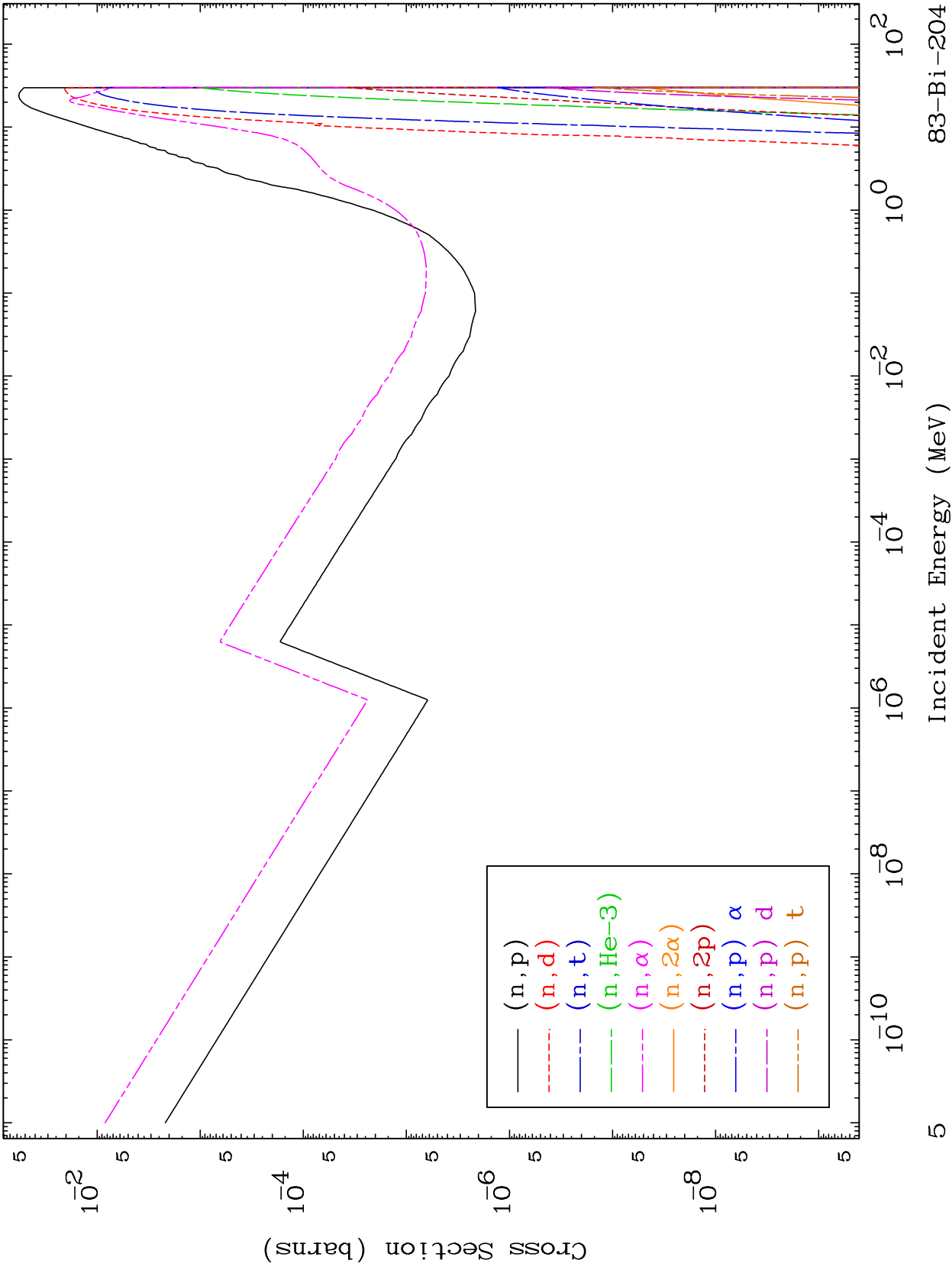
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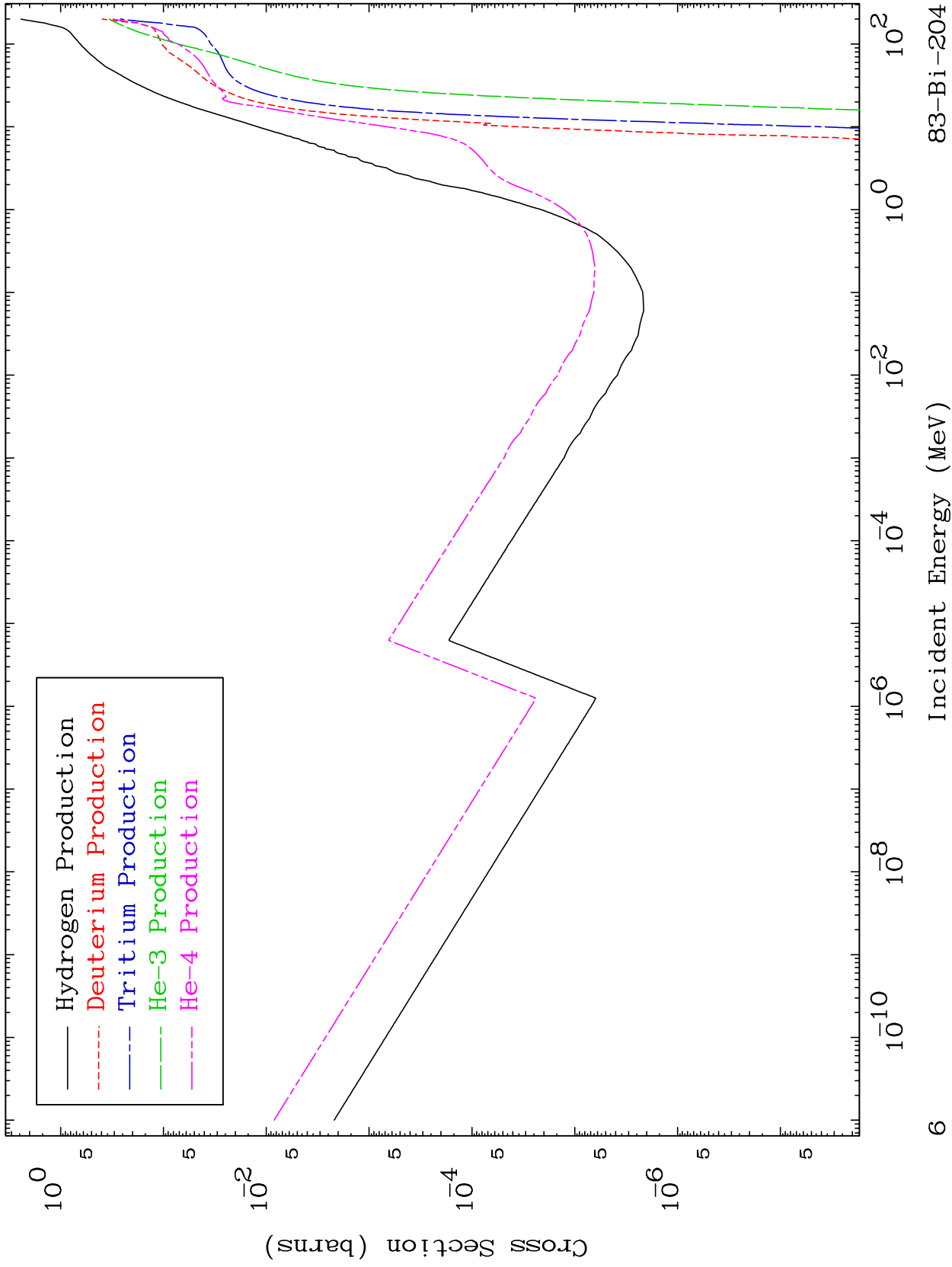


MAT 8310

Charged Particle
293 Kelvin Cross Sections

83-Bi-204

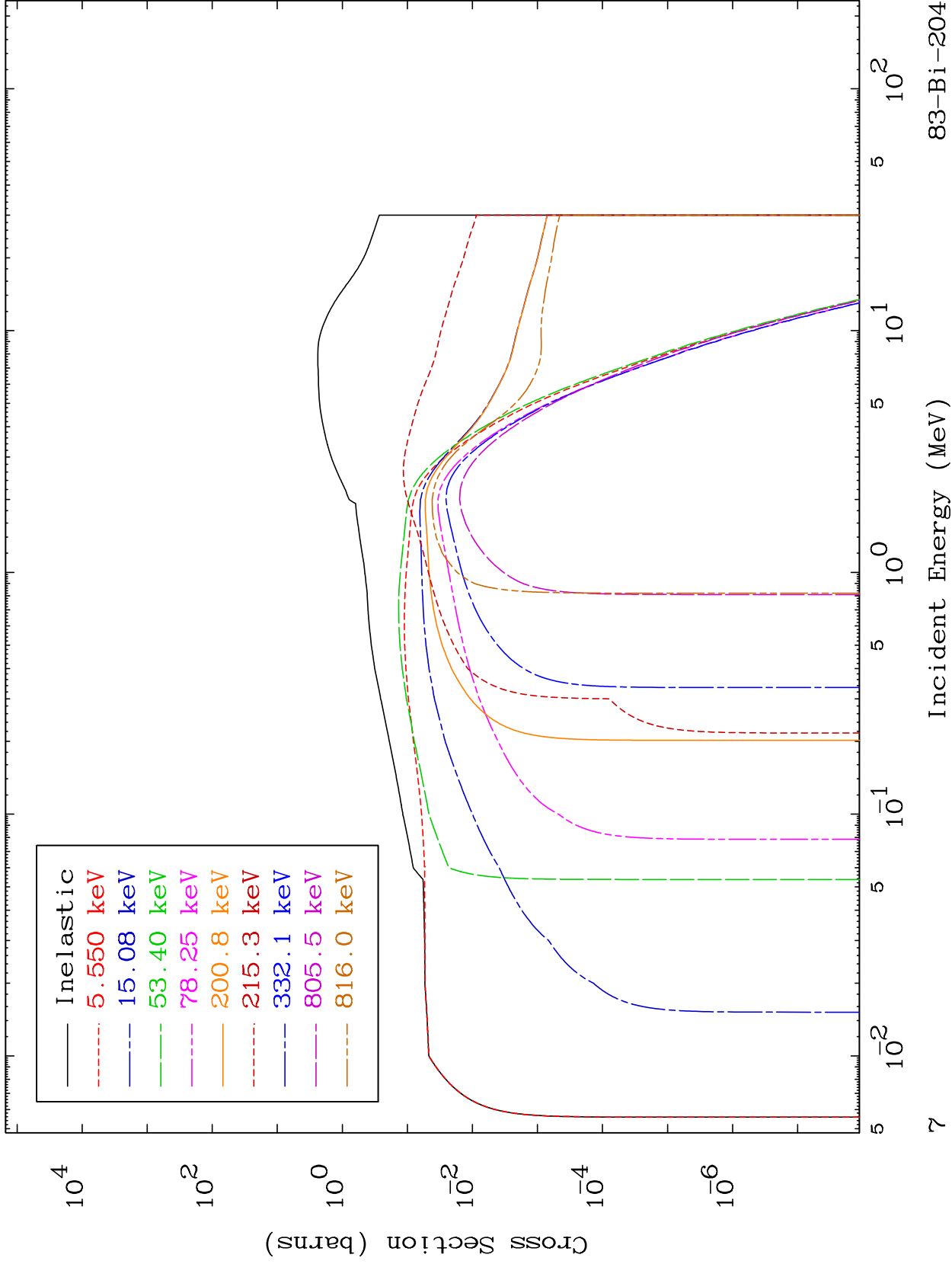




MAT 8310

(n,n') Level
293 Kelvin Cross Sections

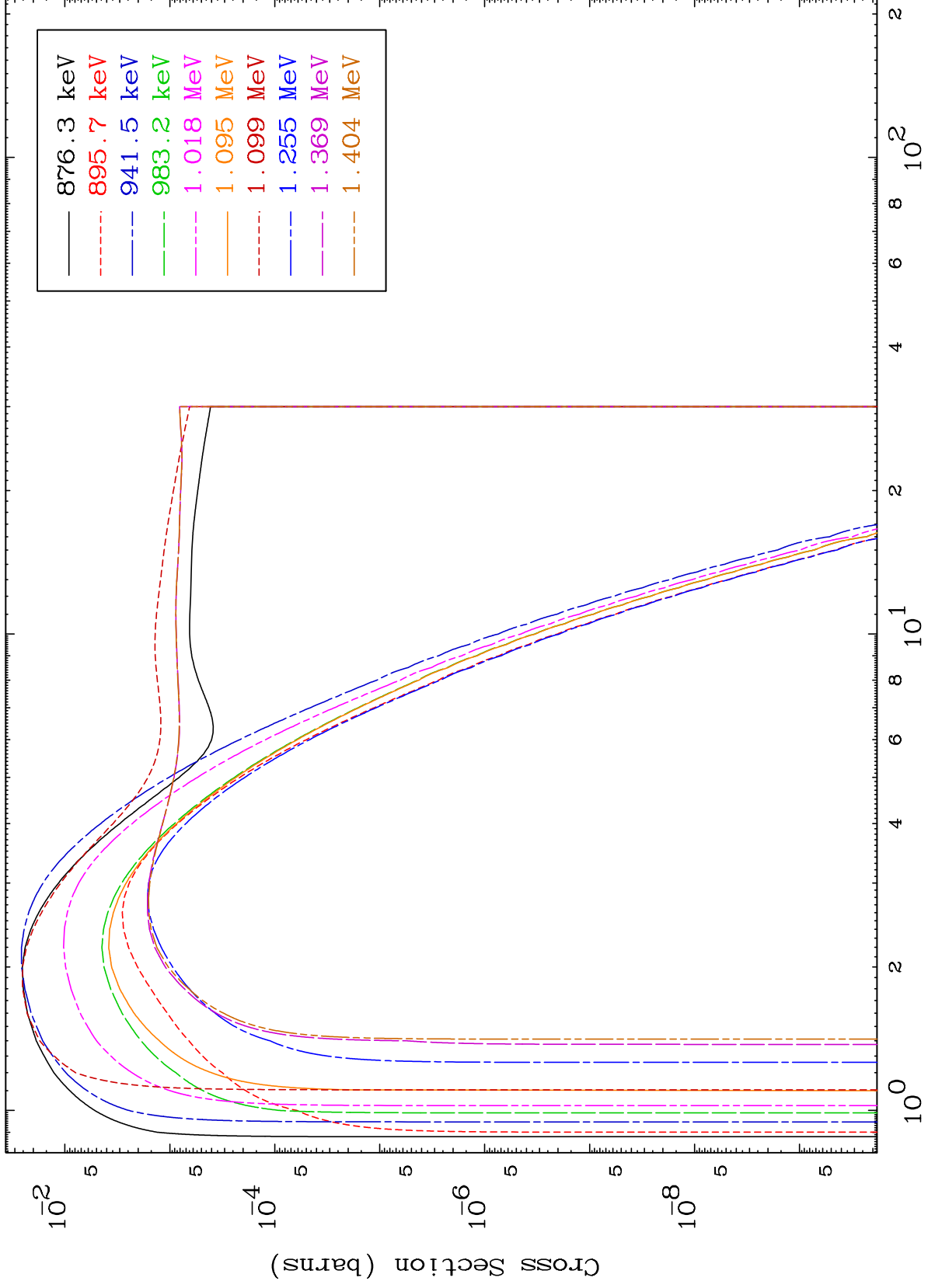
83-Bi-204



MAT 8310

(n,n') Level
293 Kelvin Cross Sections

83-Bi-204



8

Incident Energy (MeV)

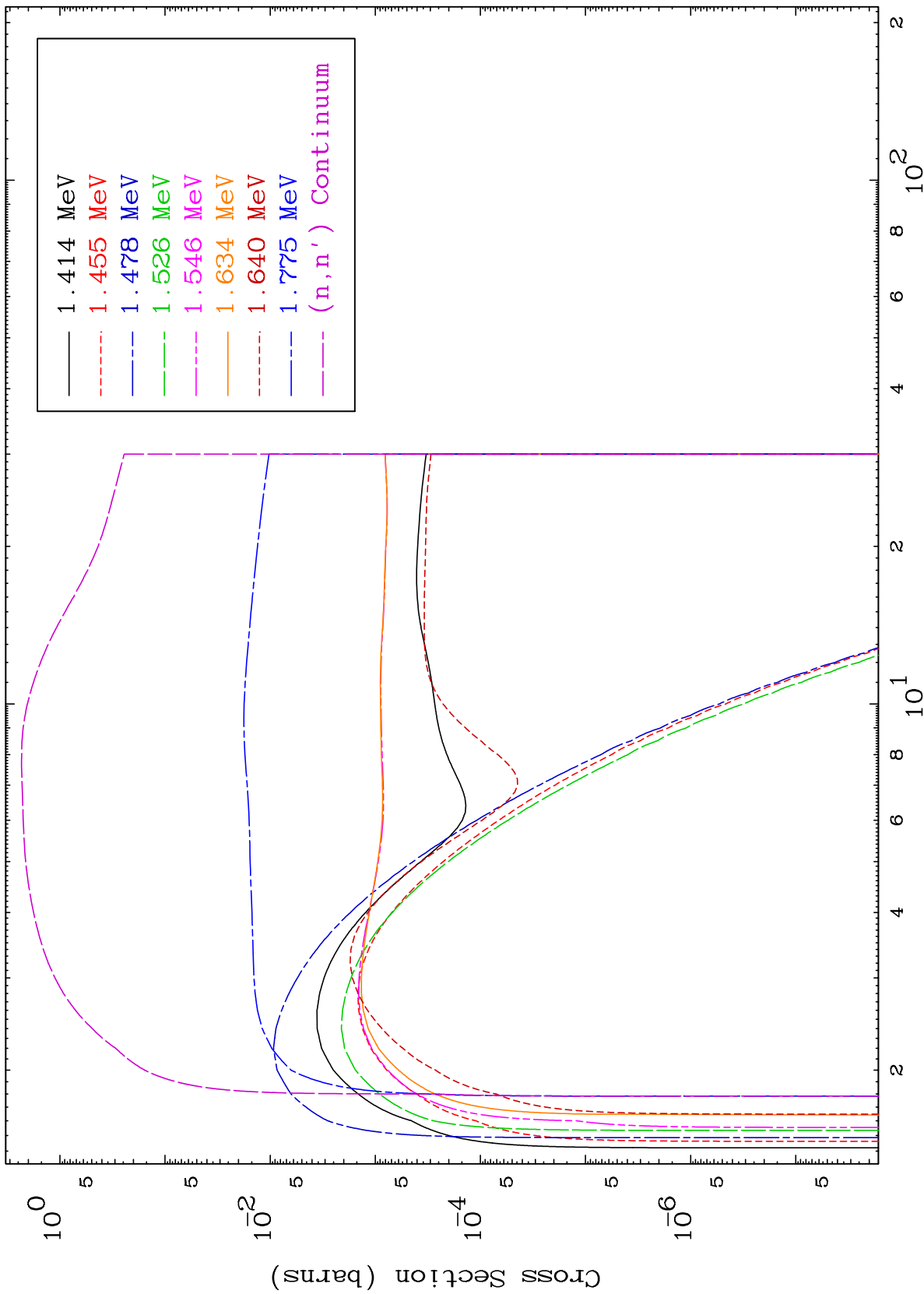
83-Bi-204

MAT 8310

(n,n') Level

83-Bi-204

293 Kelvin Cross Sections



9

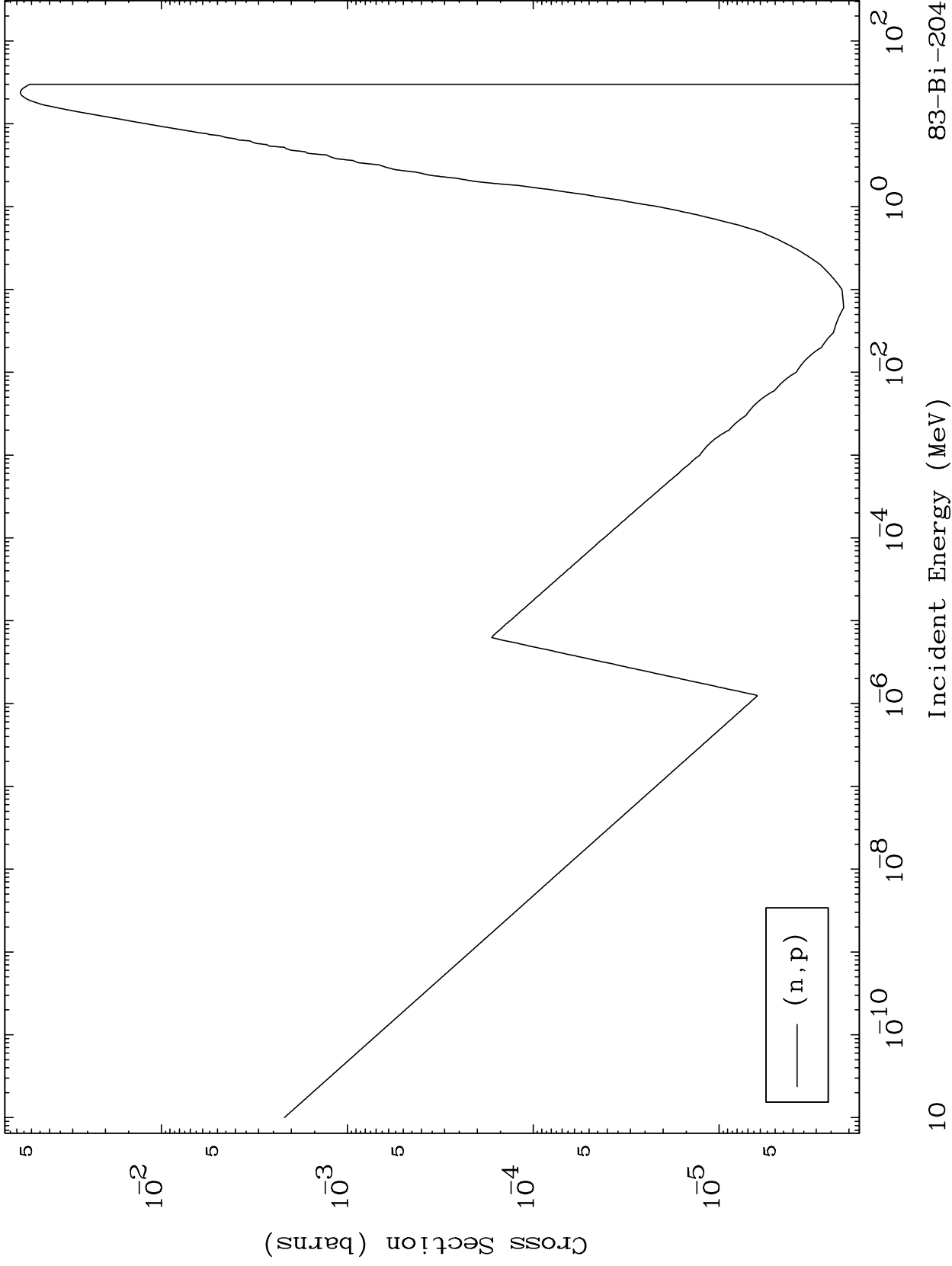
Incident Energy (MeV)

83-Bi-204

MAT 8310

(n,p) Levels
293 Kelvin Cross Sections

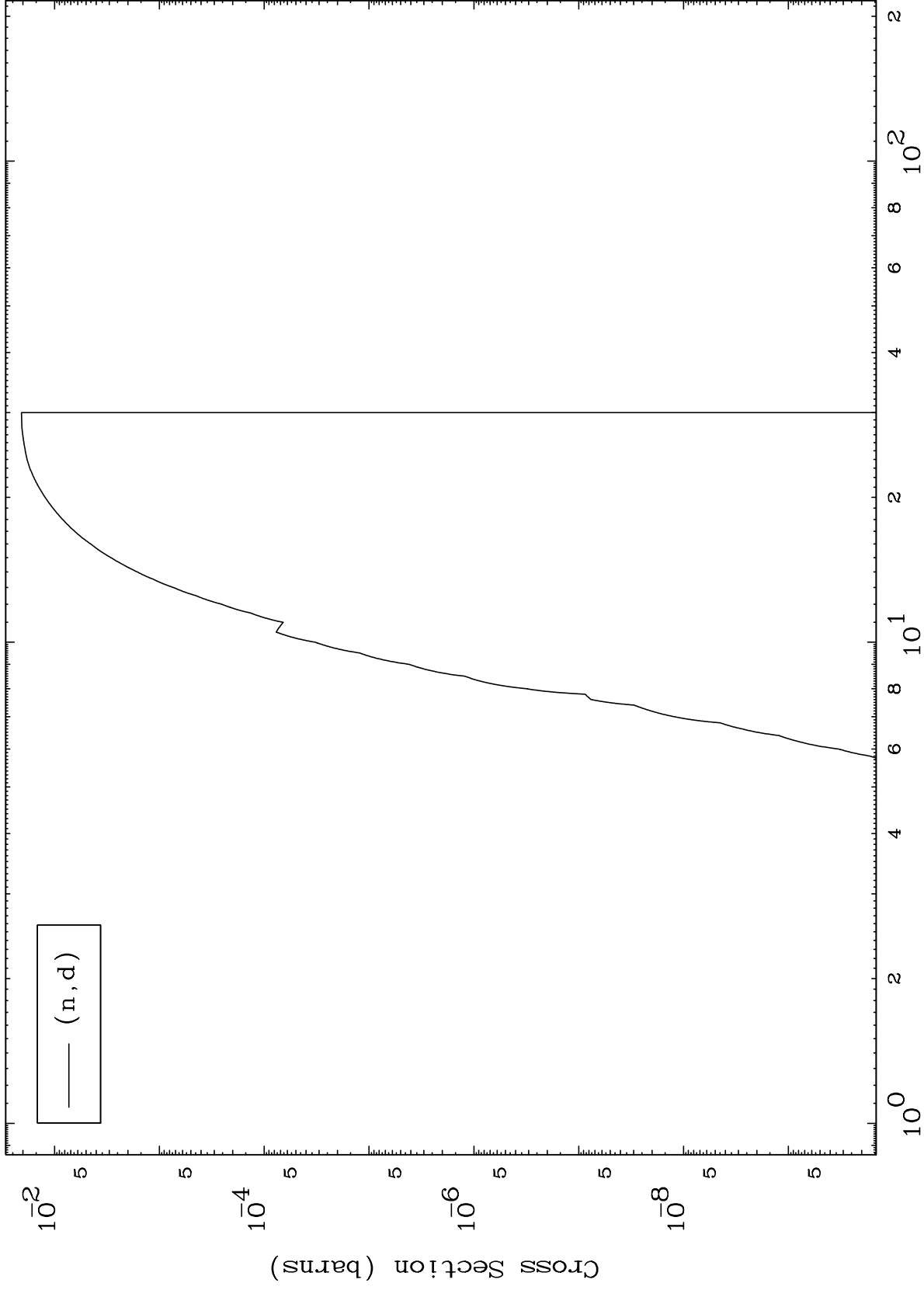
83-Bi-204



MAT 8310

(n,d) Levels
293 Kelvin Cross Sections

83-Bi-204



11

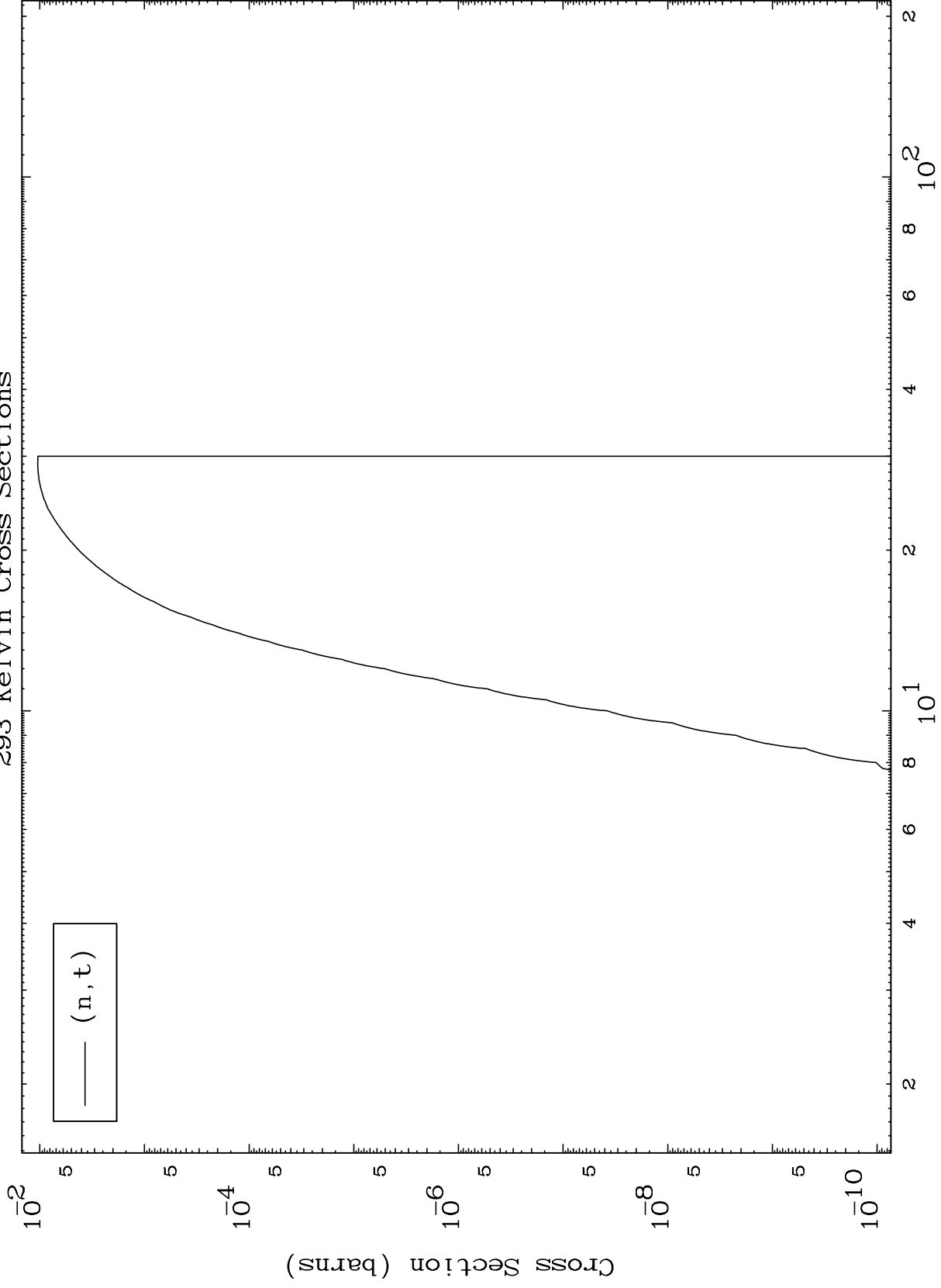
Incident Energy (MeV)

83-Bi-204

MAT 8310

(n,t) Levels
293 Kelvin Cross Sections

83-Bi-204



12

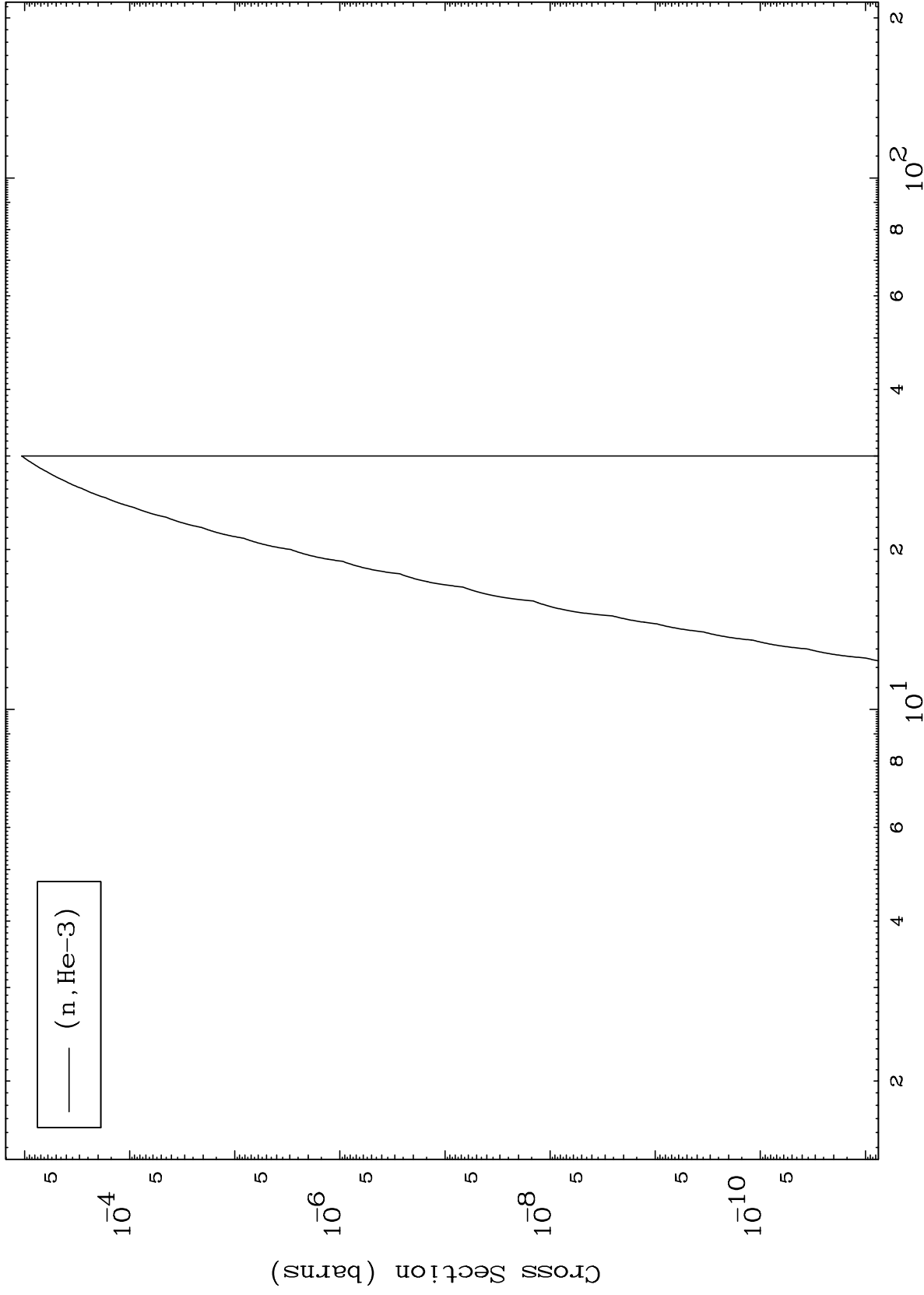
Incident Energy (MeV)

83-Bi-204

MAT 8310

(n,He3) Levels
293 Kelvin Cross Sections

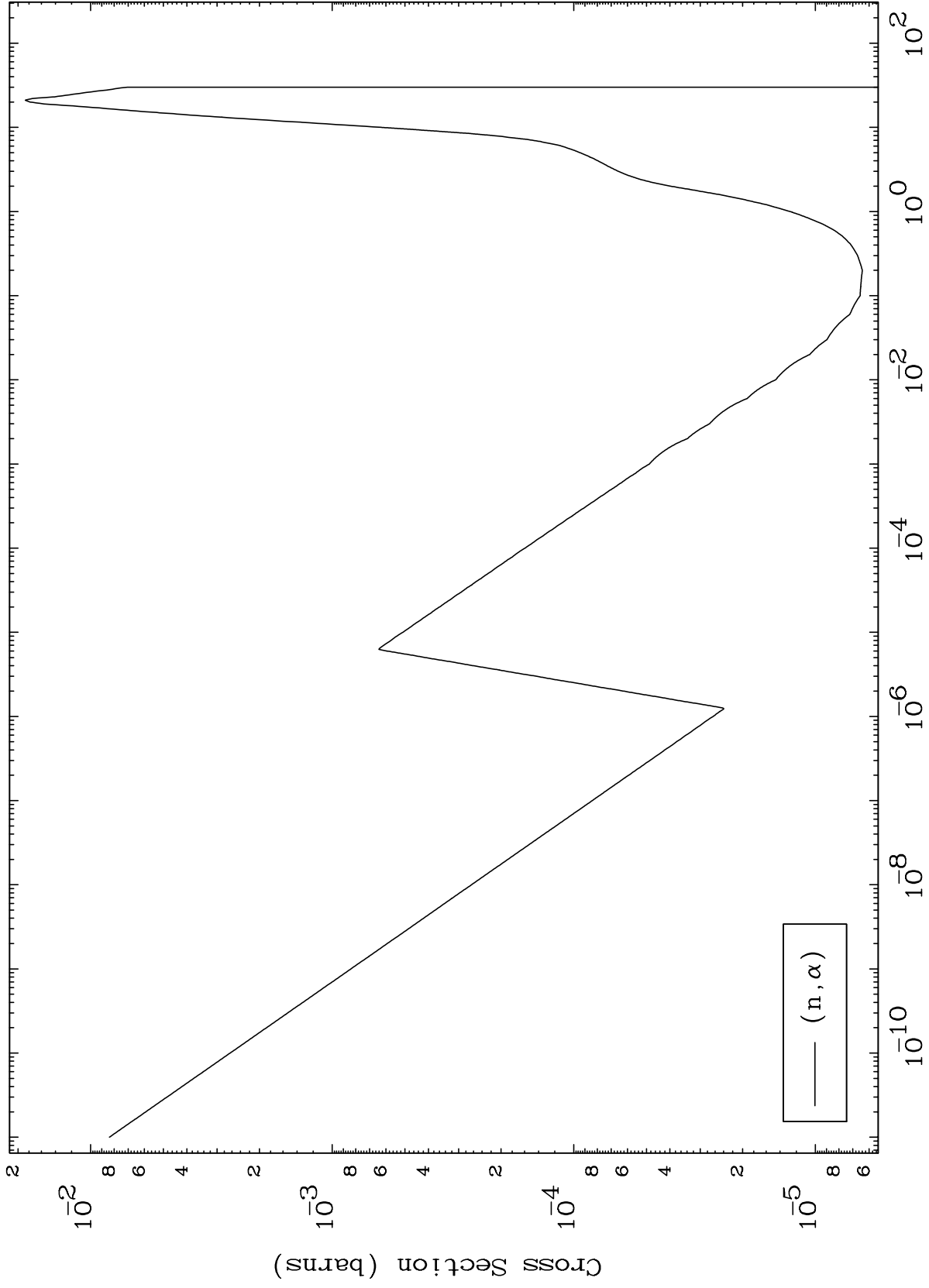
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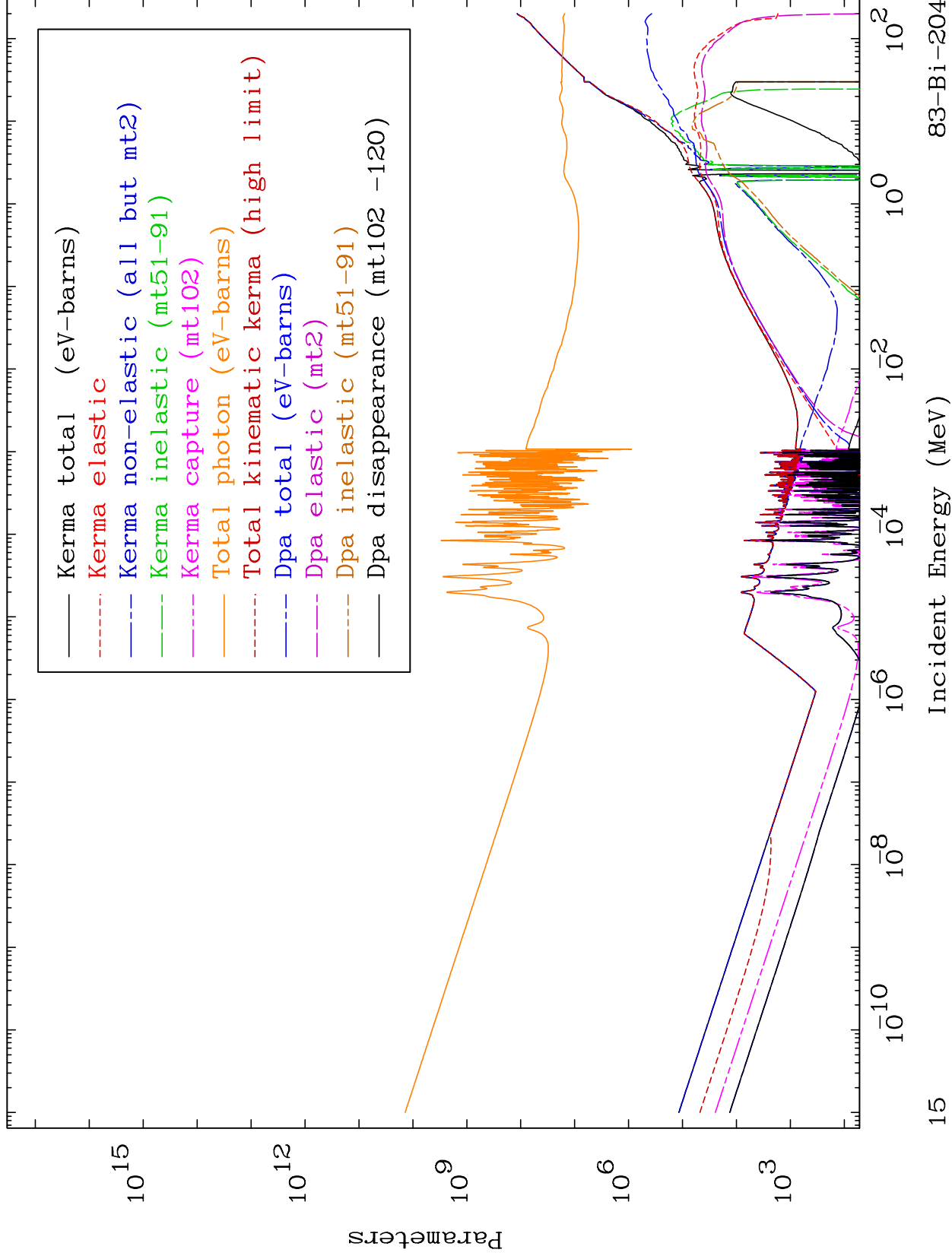


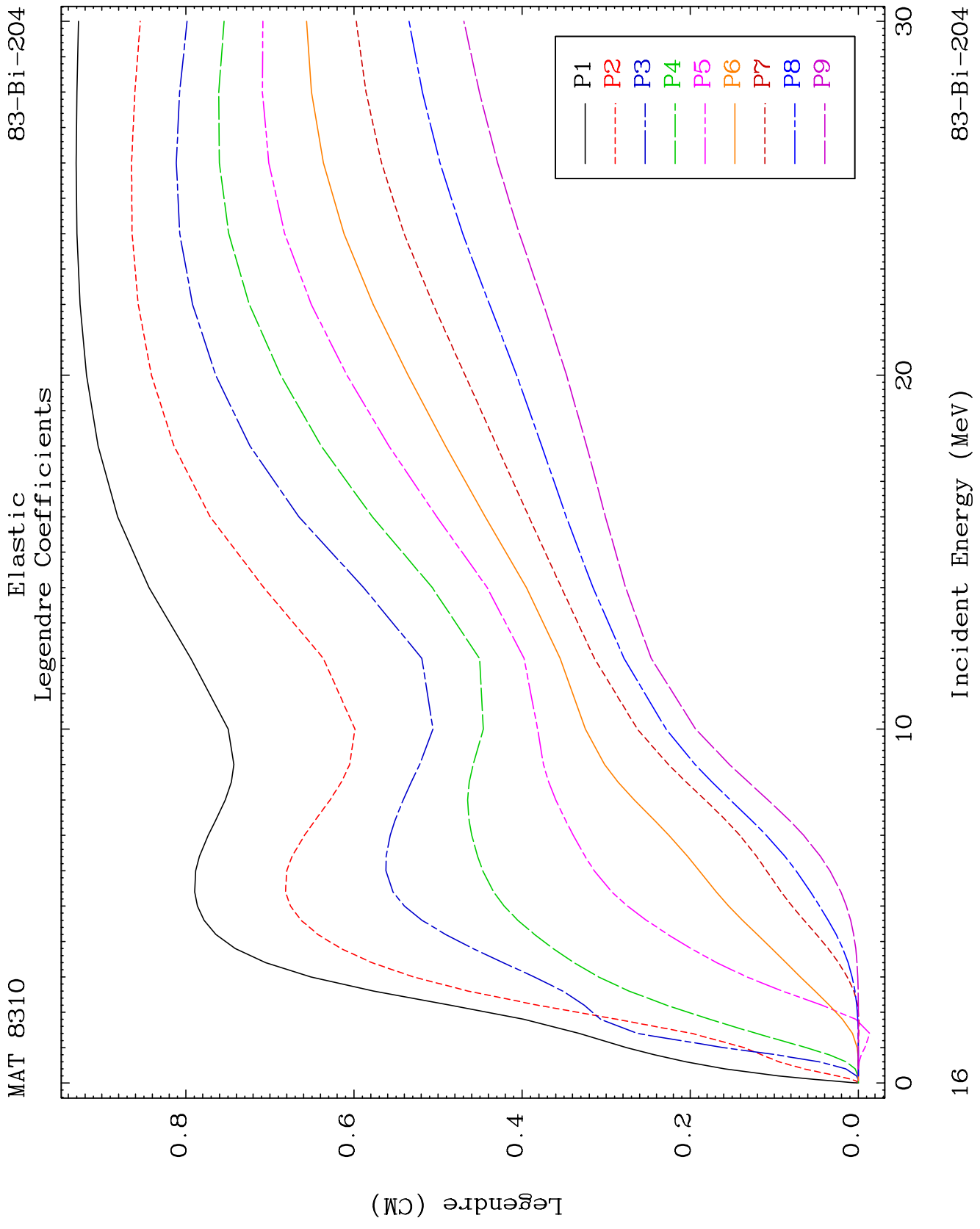
MAT 8310

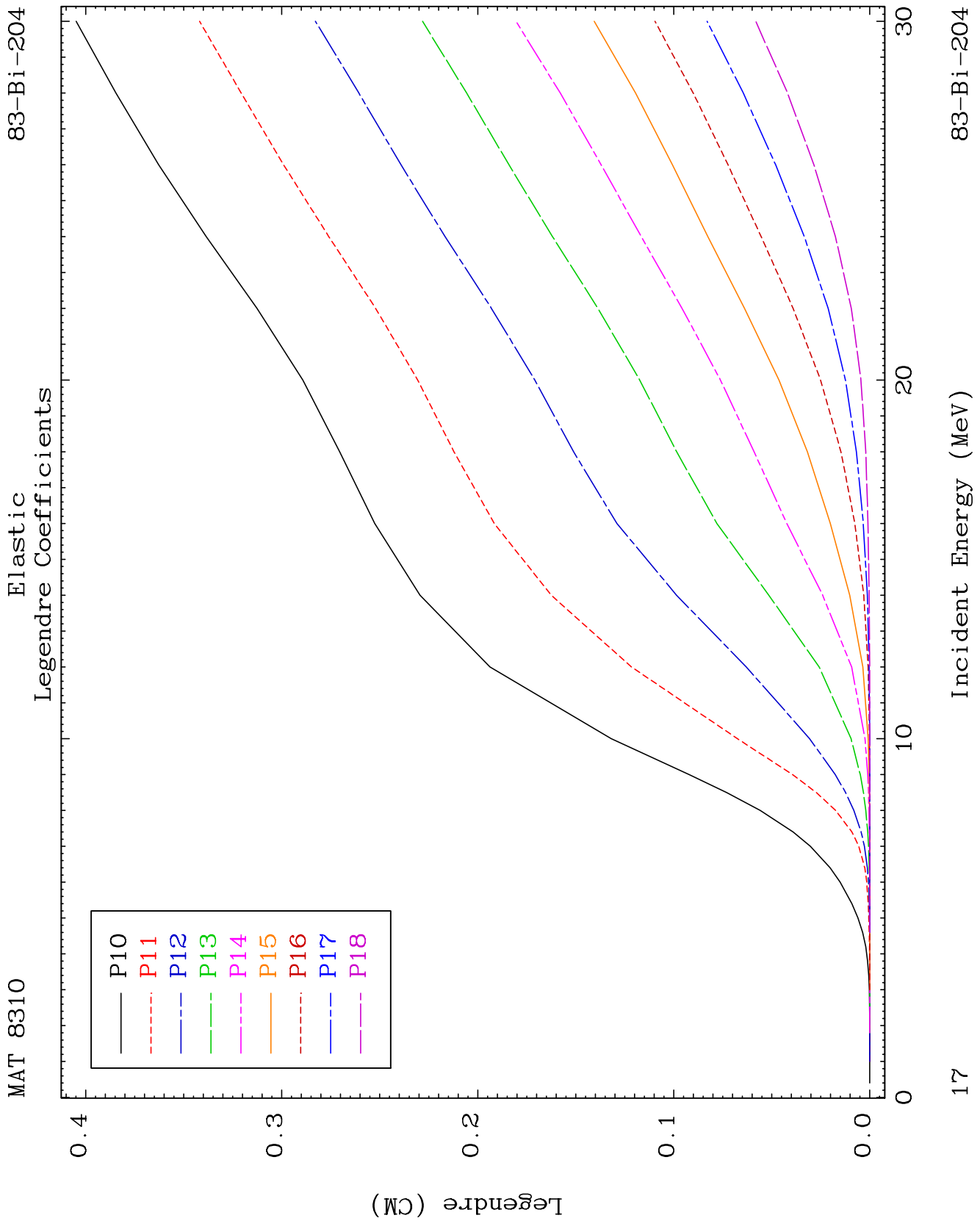
(n,α) Levels
293 Kelvin Cross Sections

83-Bi-204





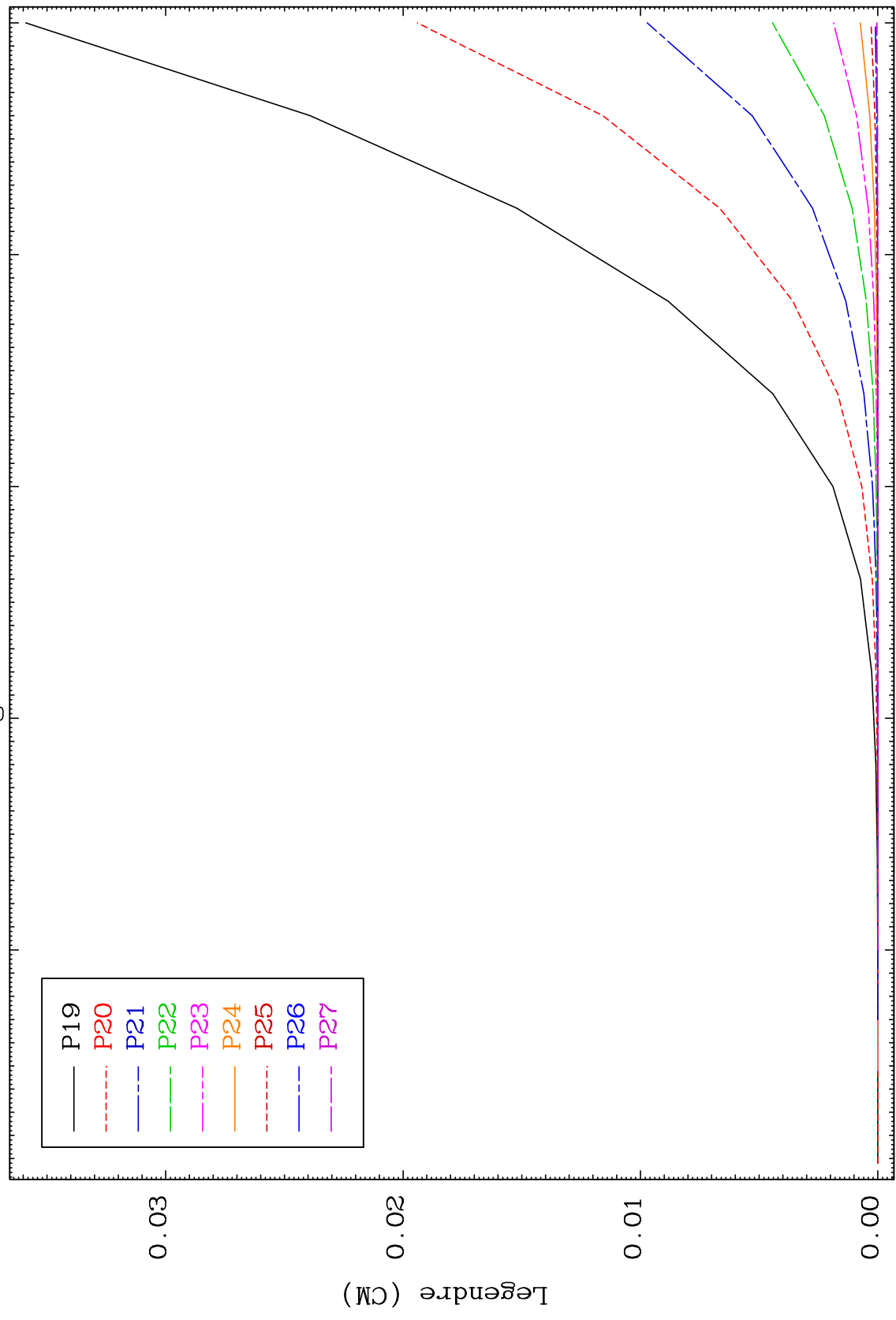




MAT 8310

Elastic Legendre Coefficients

83-Bi-204



18

Incident Energy (MeV)

83-Bi-204

30

15

10

0.00

0.01

0.02

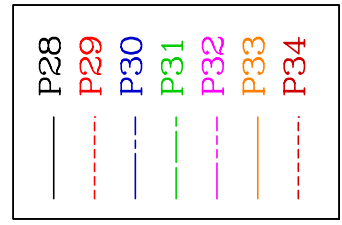
0.03

Legendre (CM)

MAT 8310

Elastic Legendre Coefficients

83-Bi-204



$\times 10^{-5}$

Legendre (CM)

10

15

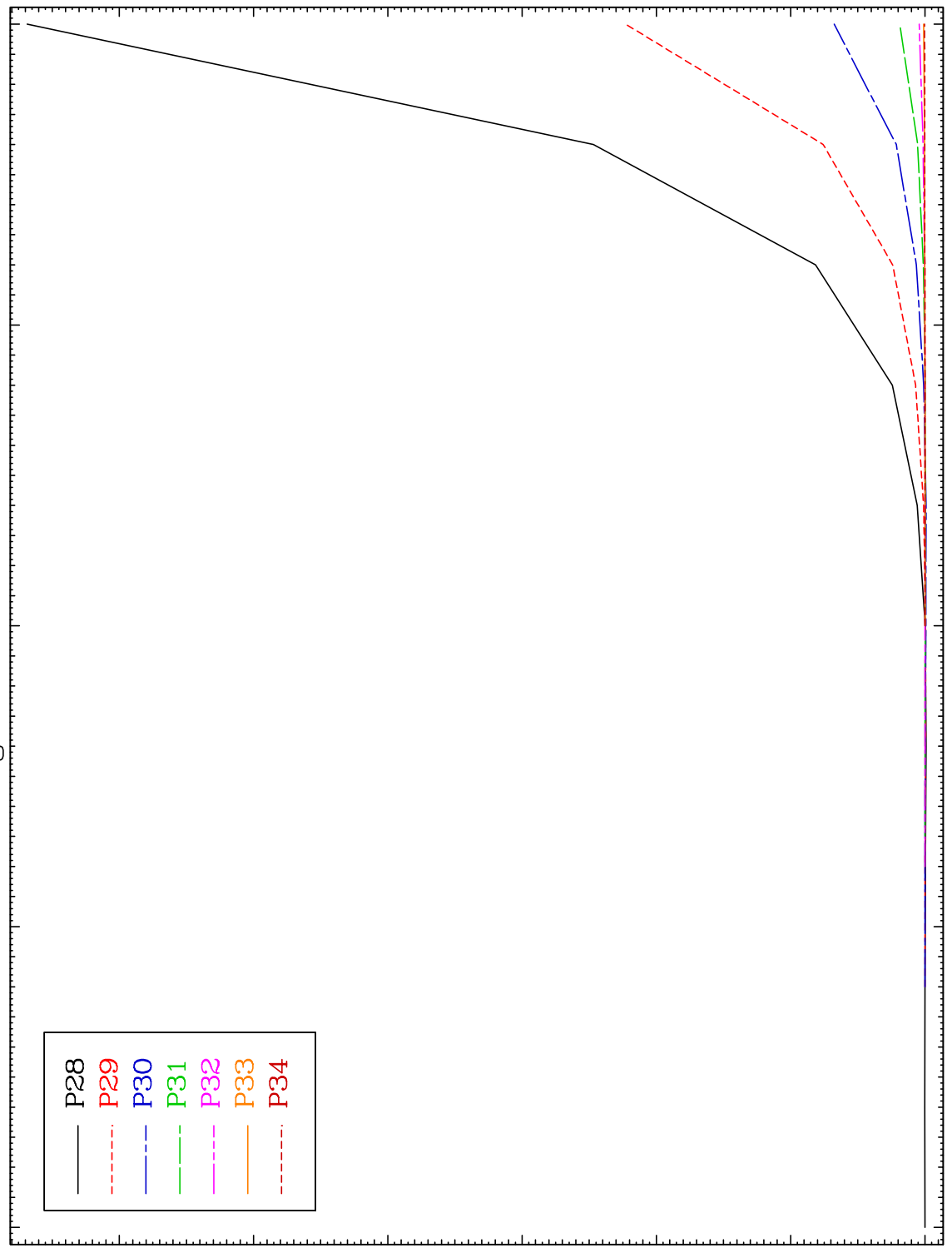
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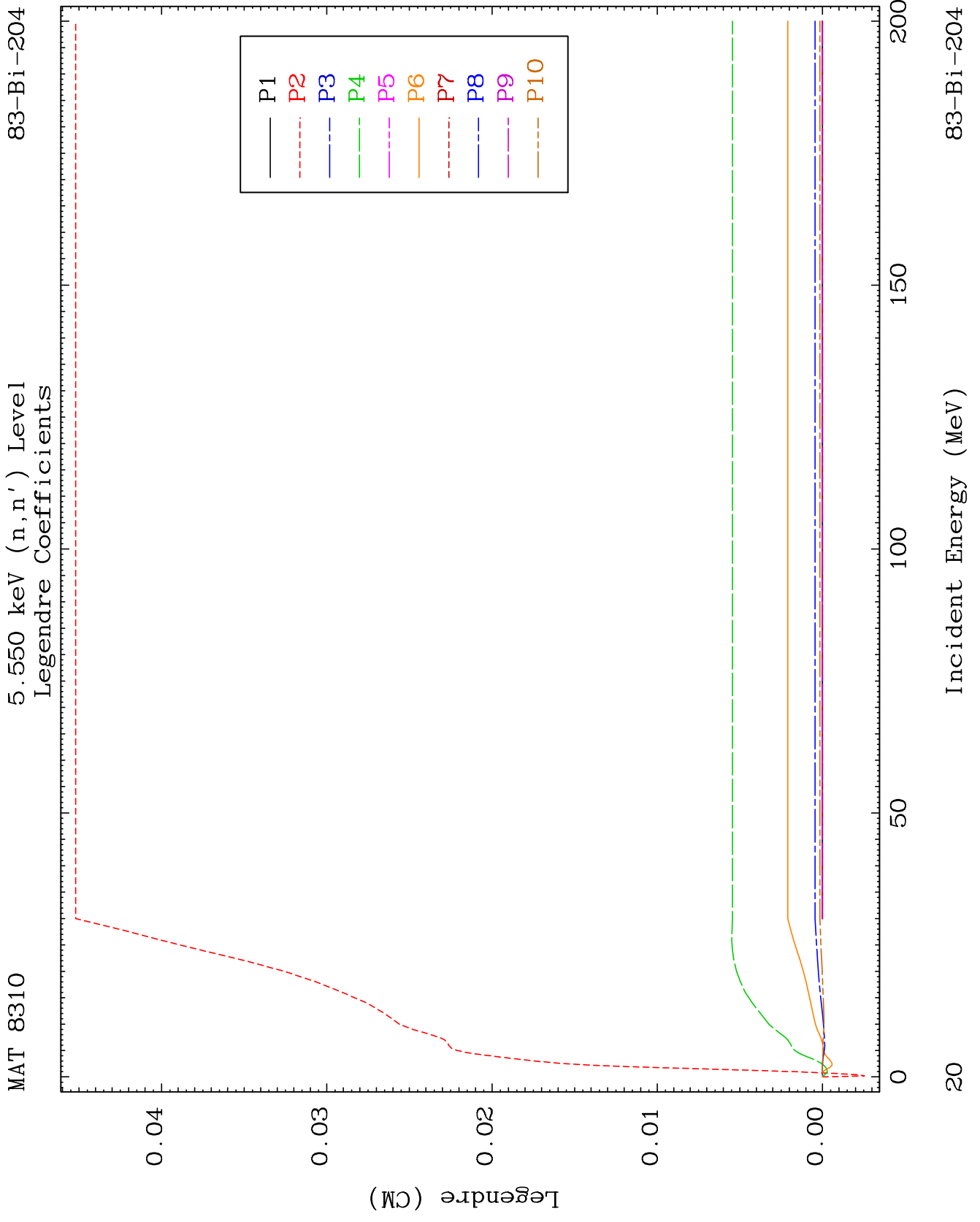
25

30

Incident Energy (MeV)

83-Bi-204

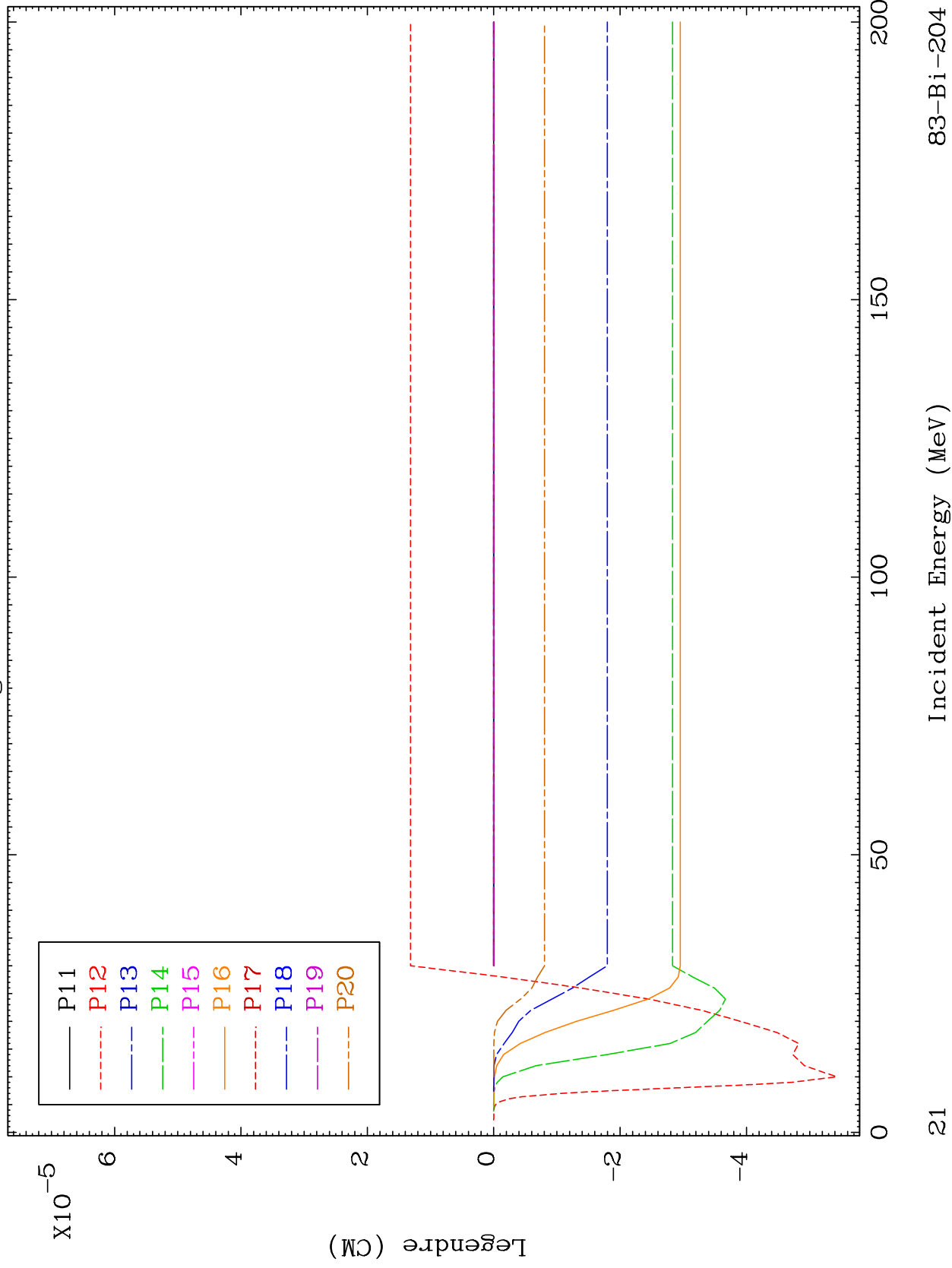




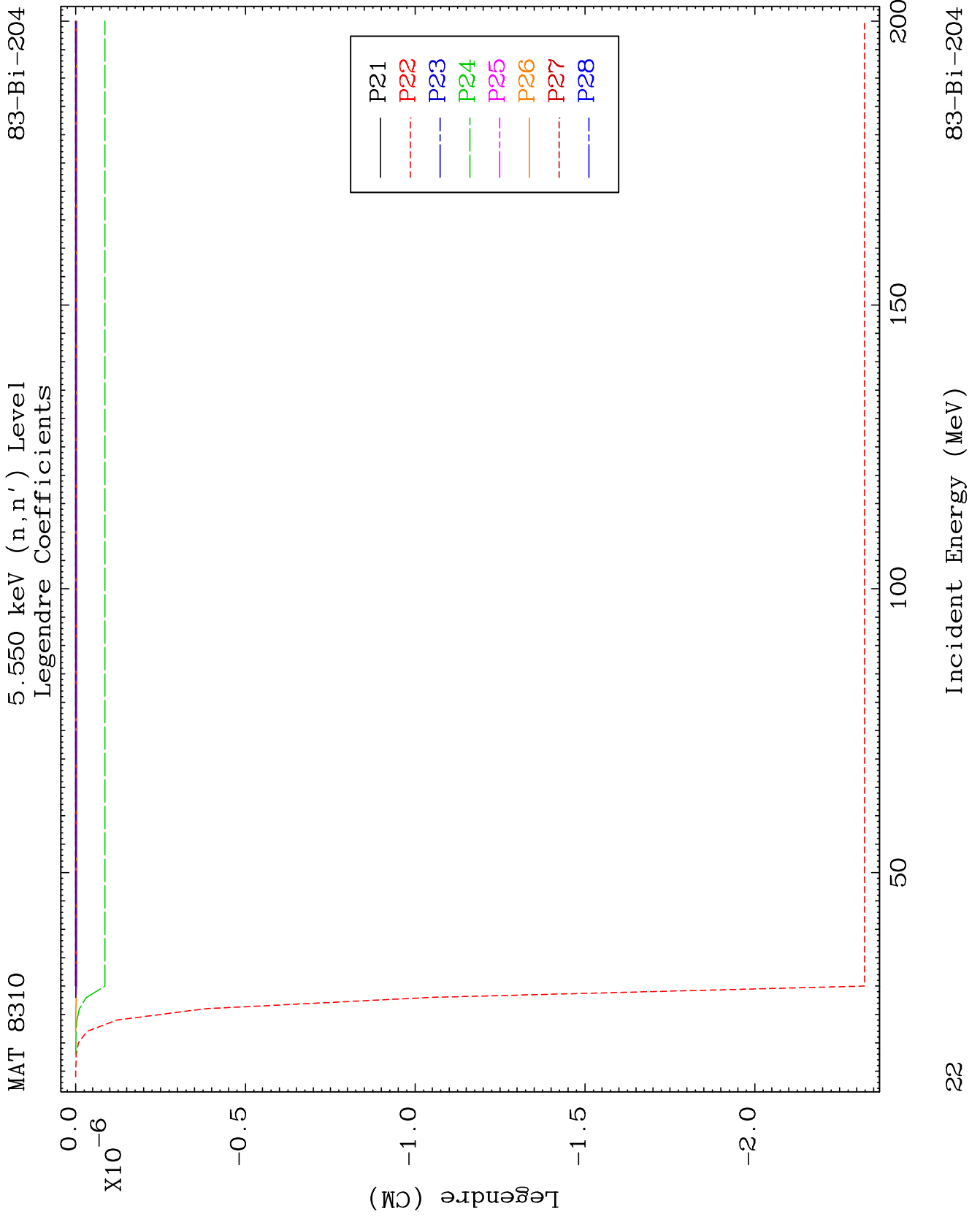
MAT 8310

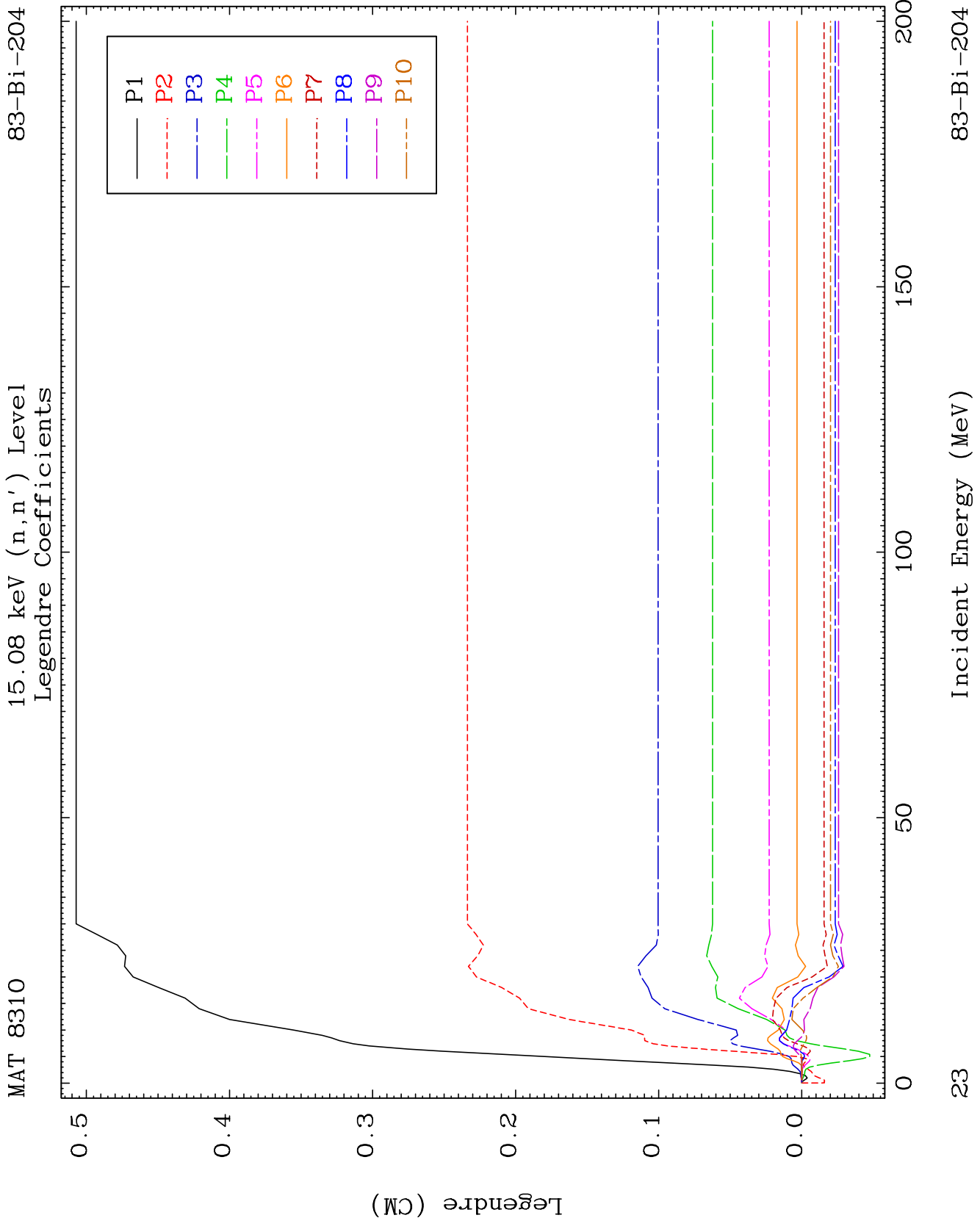
5.550 keV (n,n') Level
Legendre Coefficients

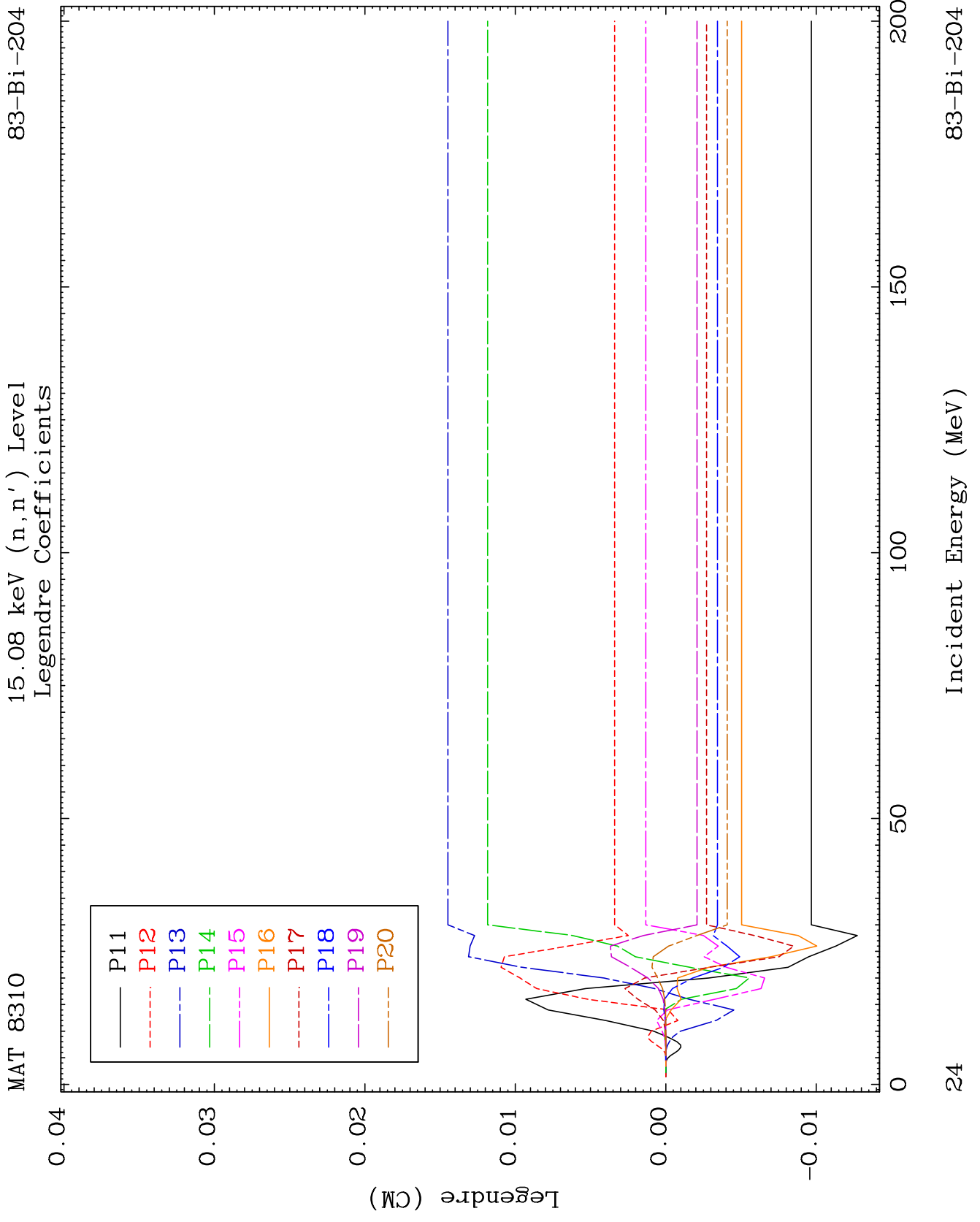
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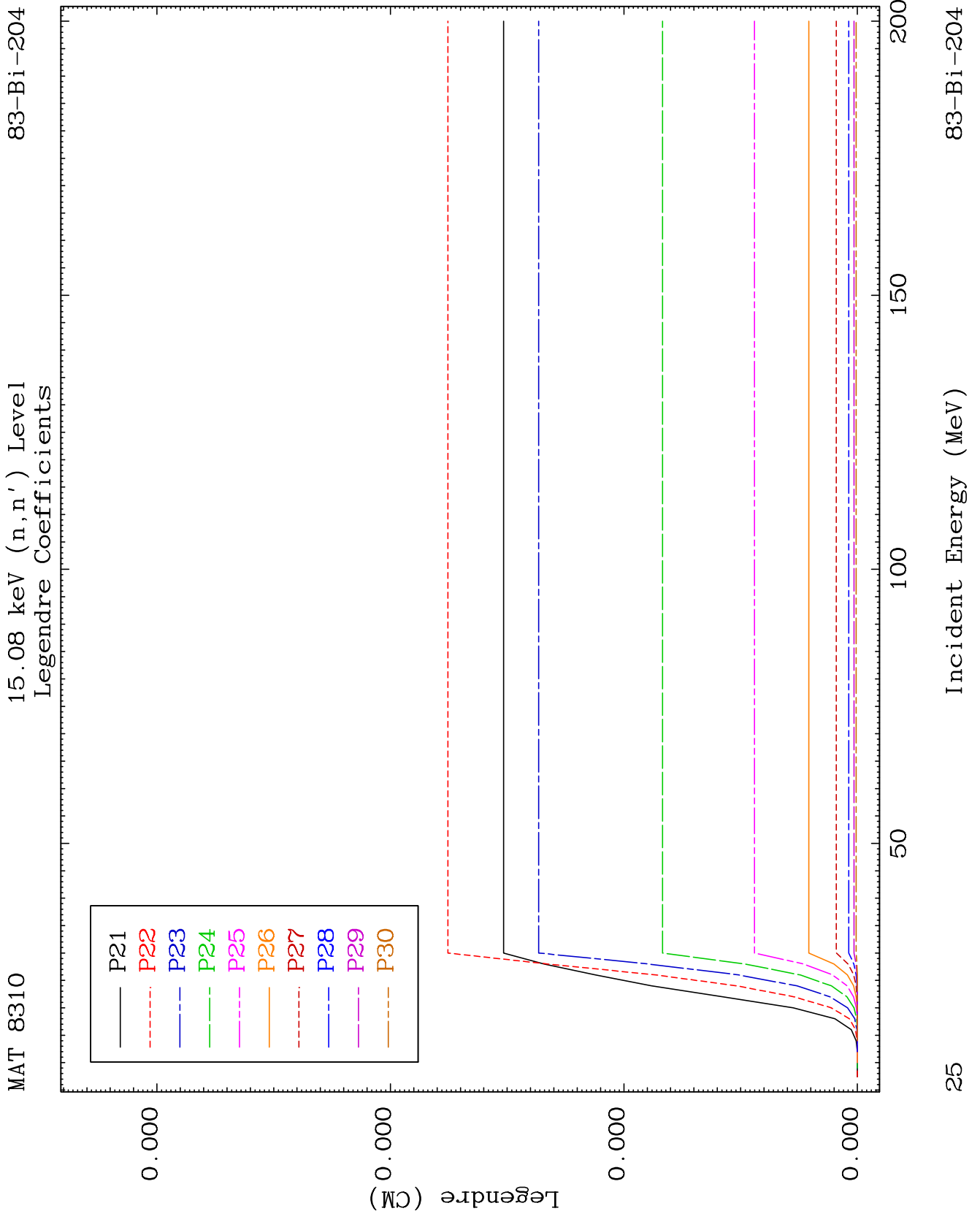


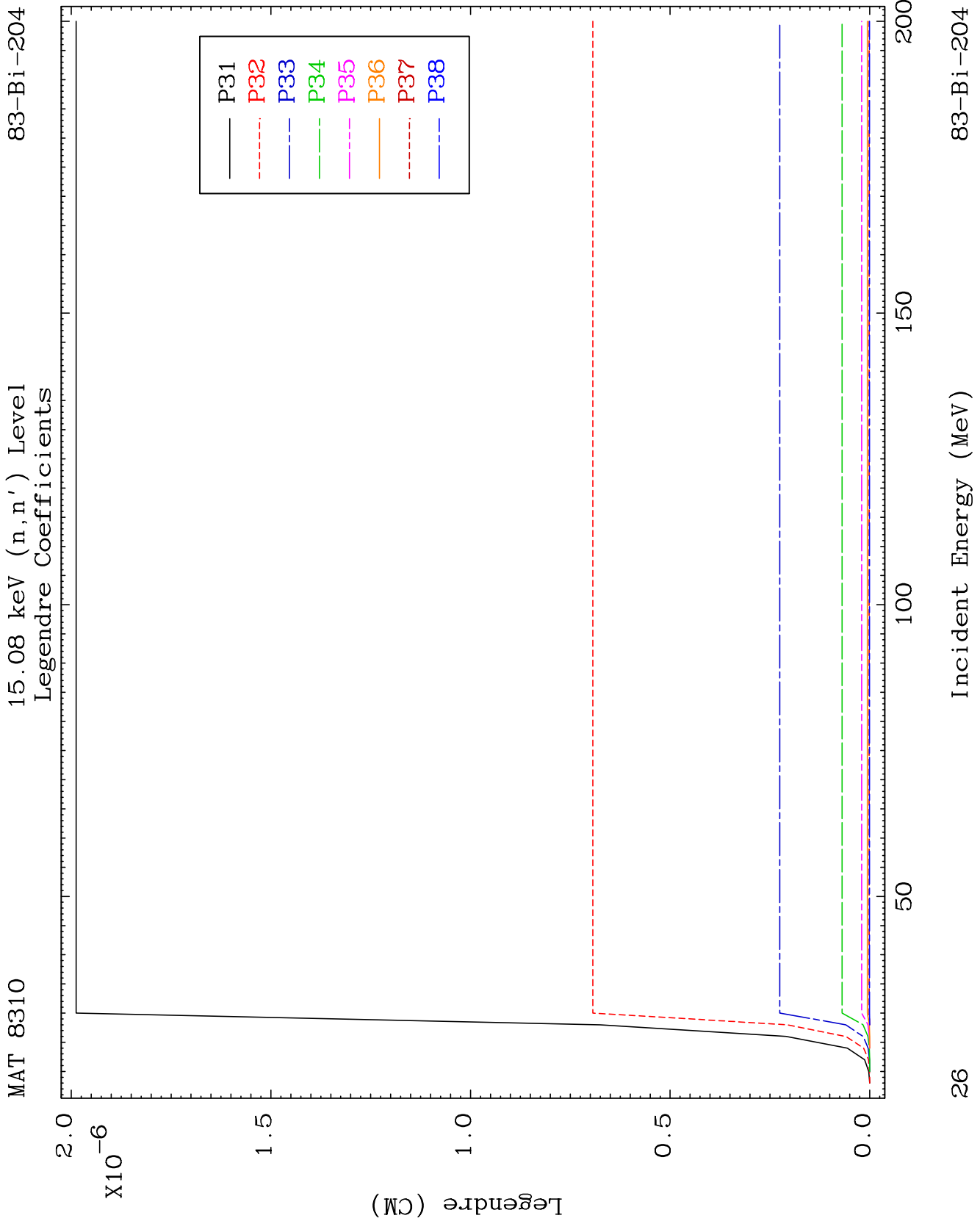
21

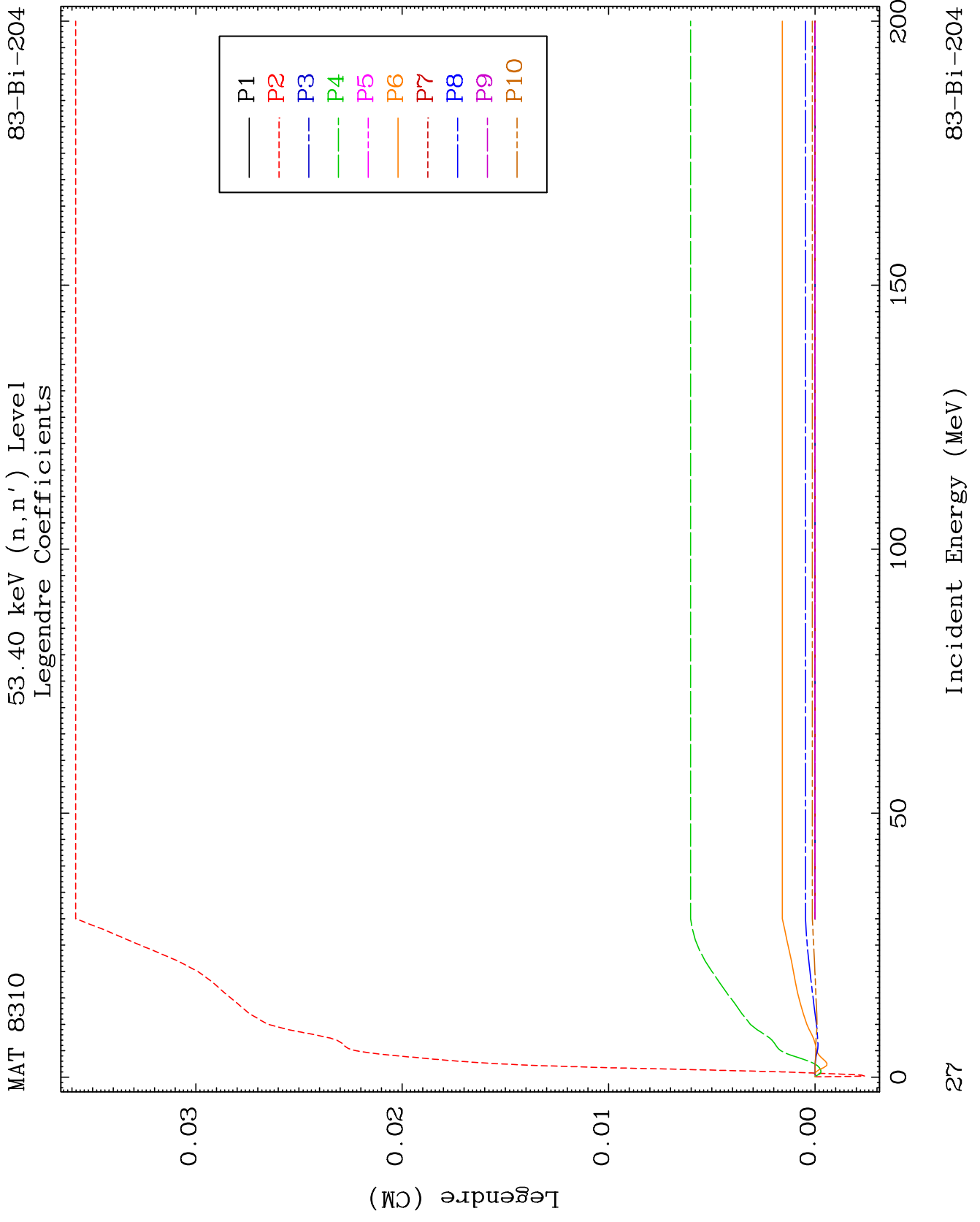








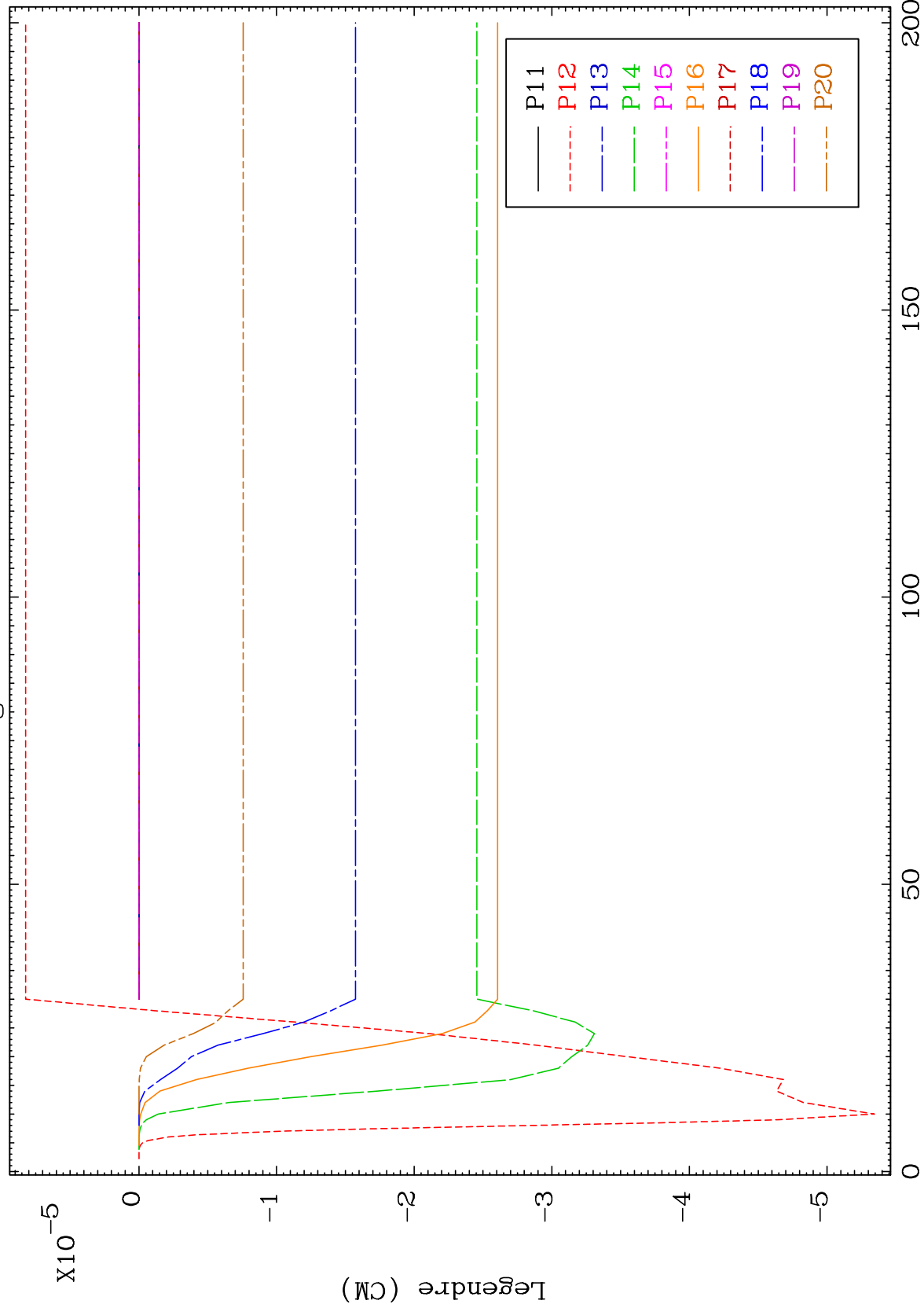




MAT 8310

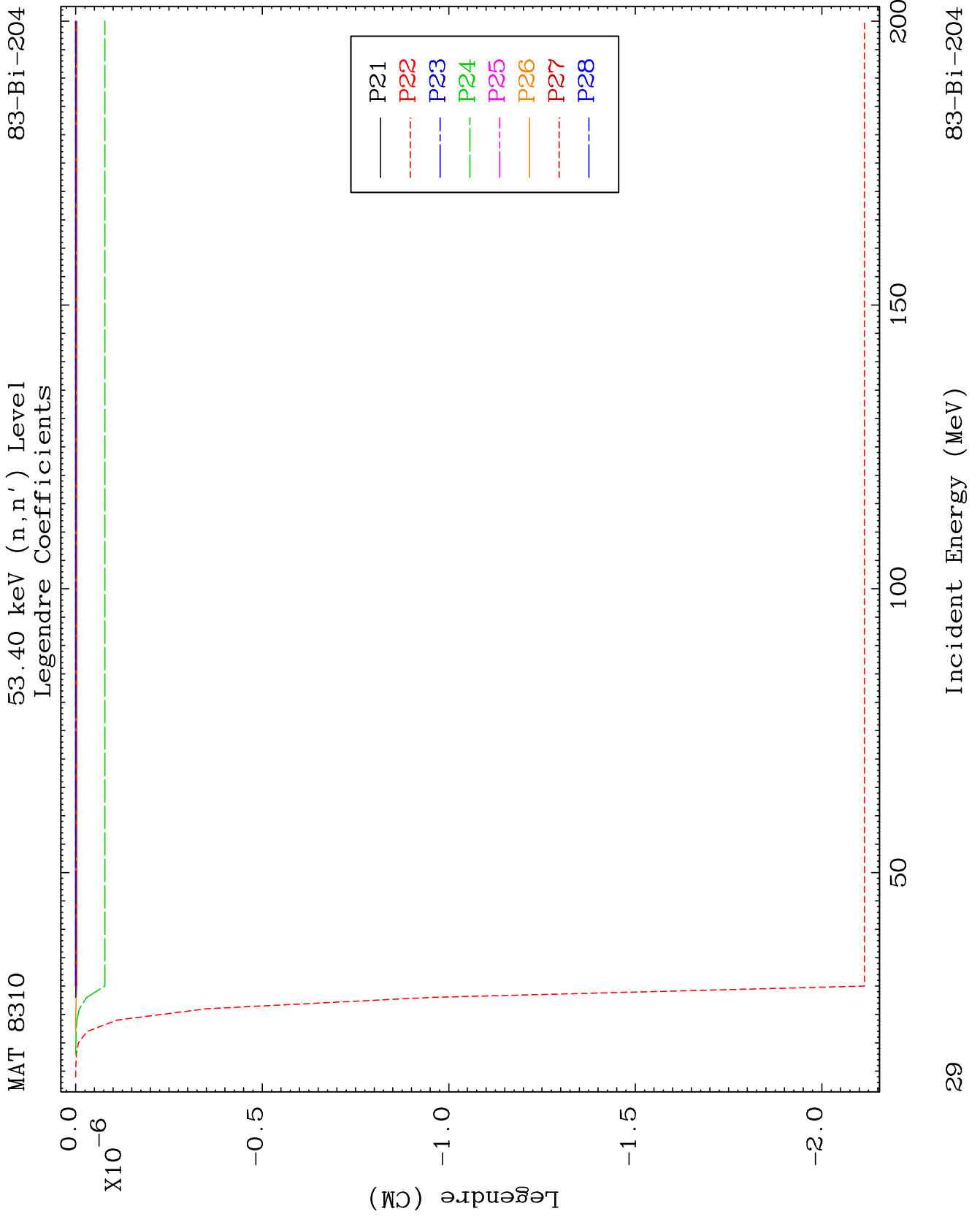
53.40 keV (n,n') Level
Legendre Coefficients

83-Bi-204



28

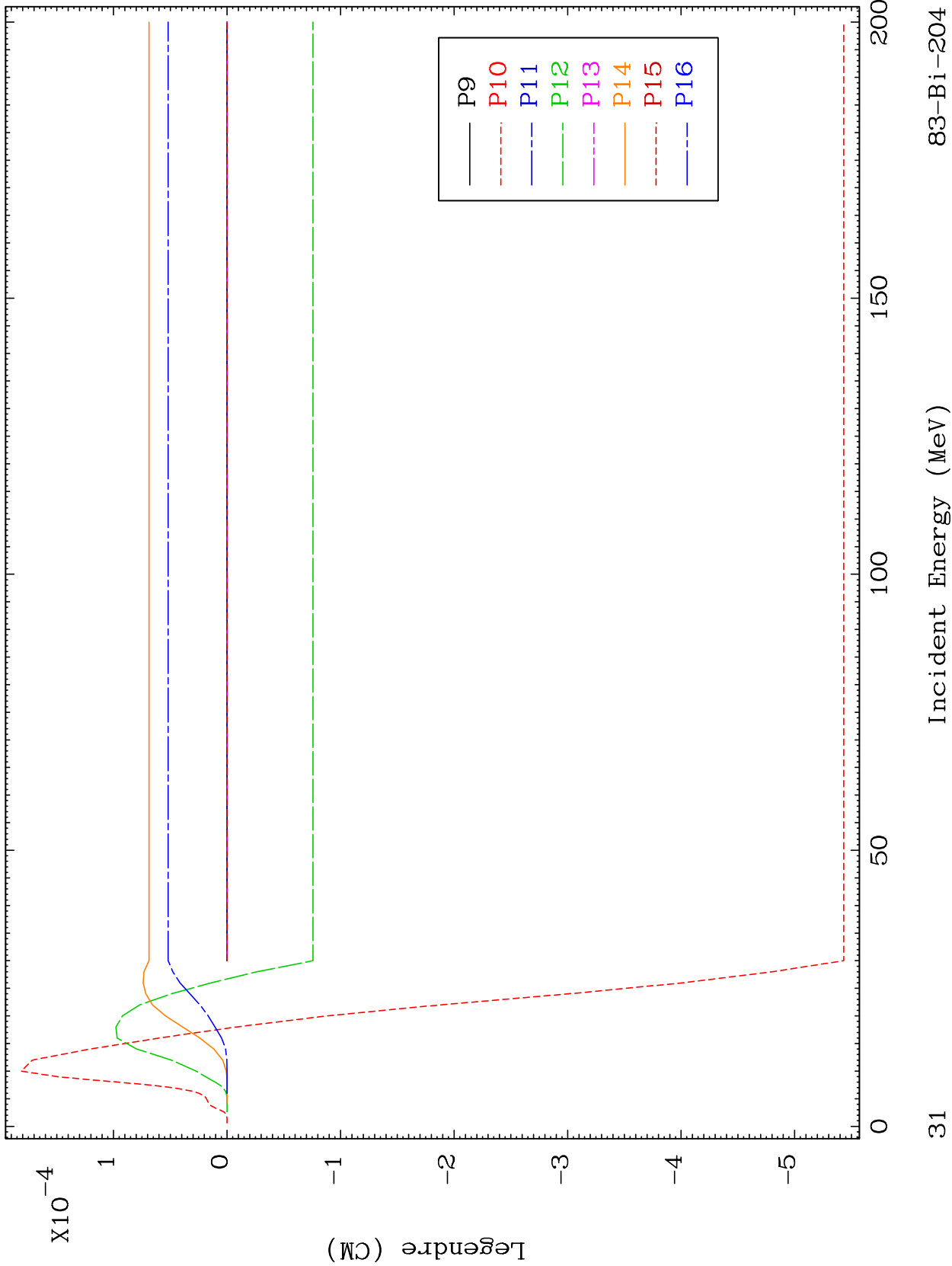
83-Bi-204



MAT 8310

78.25 keV (n,n') Level
Legendre Coefficients

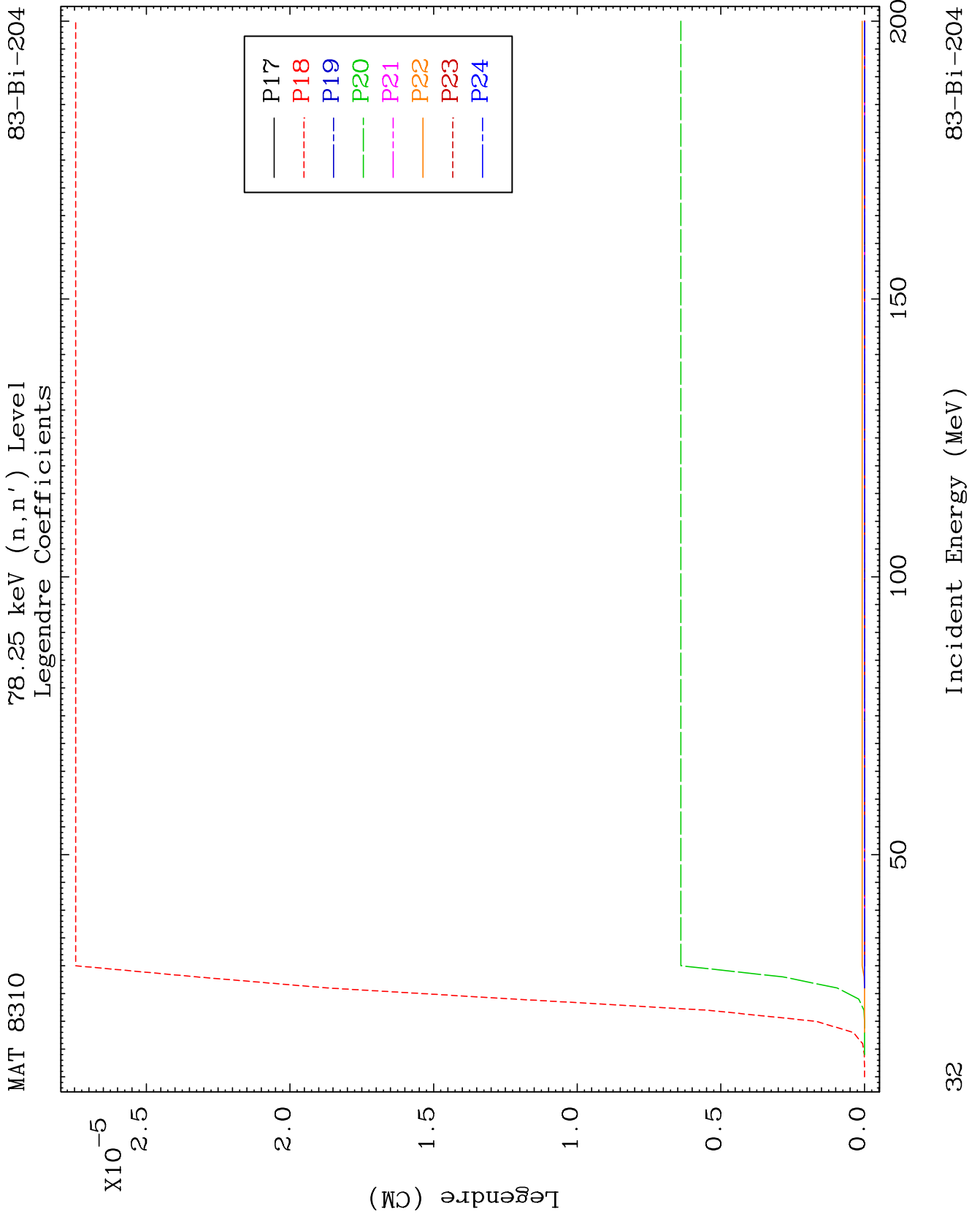
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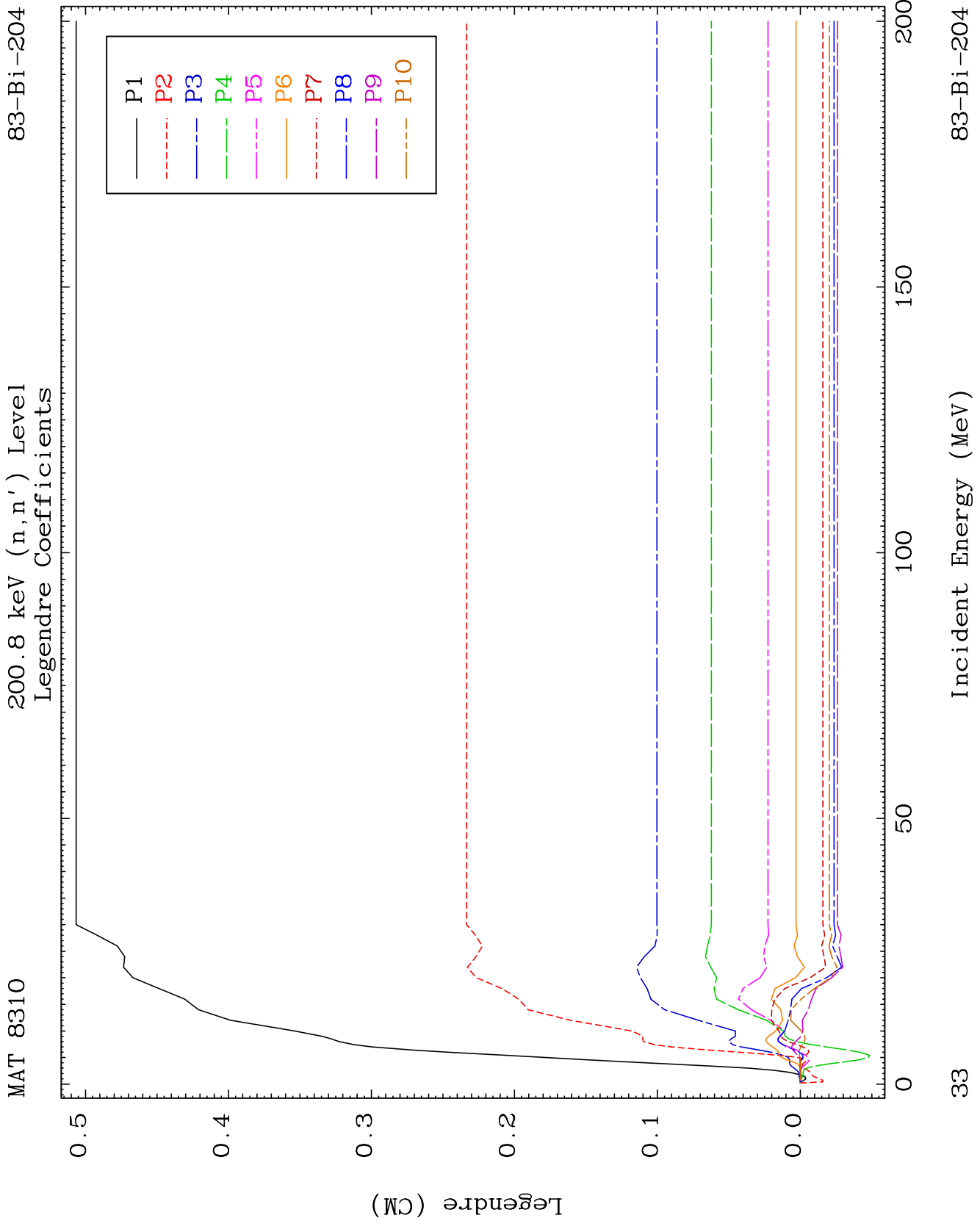


31

Incident Energy (MeV)

83-Bi-204

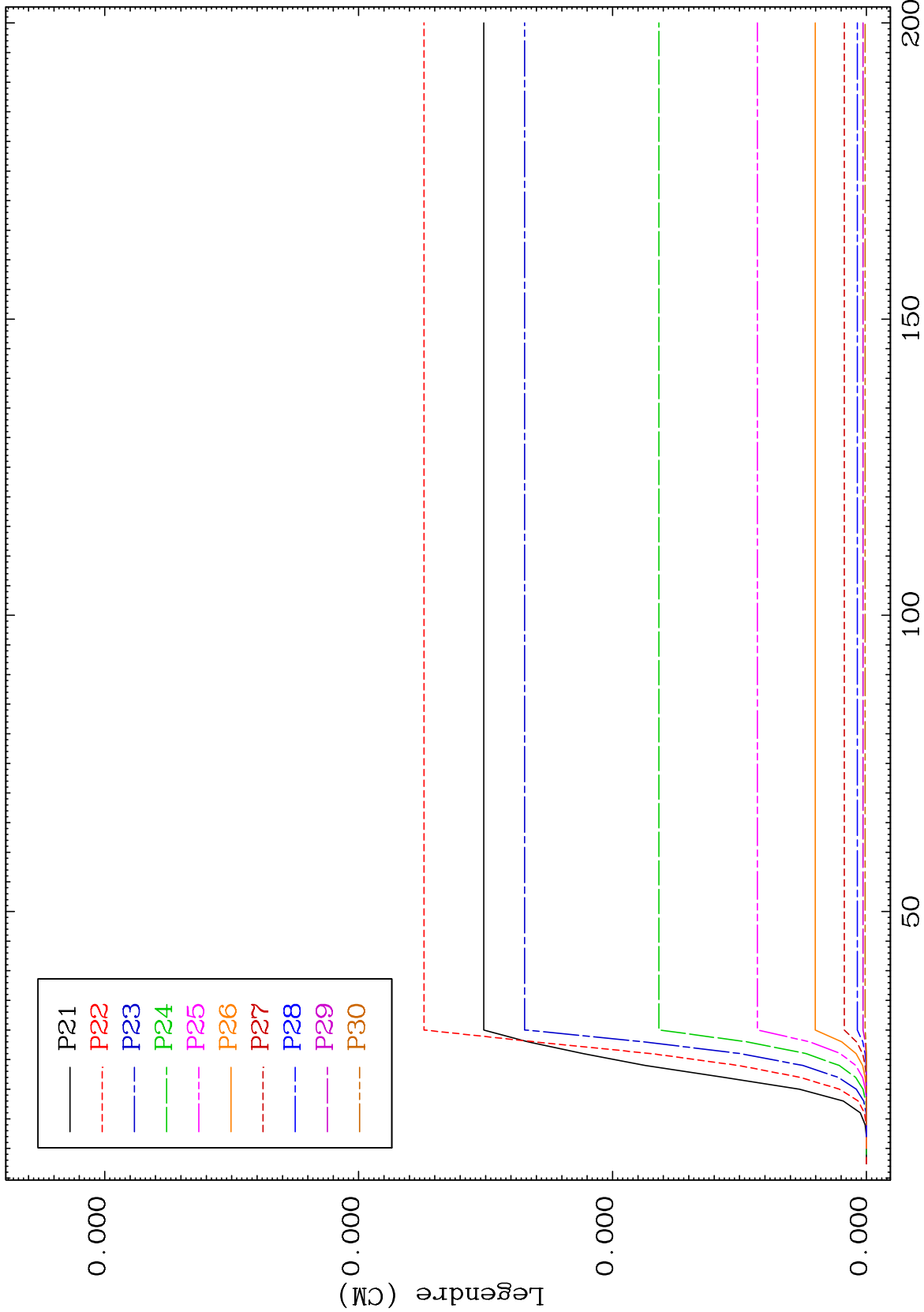




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200.8 keV (n,n') Level
Legendre Coefficients

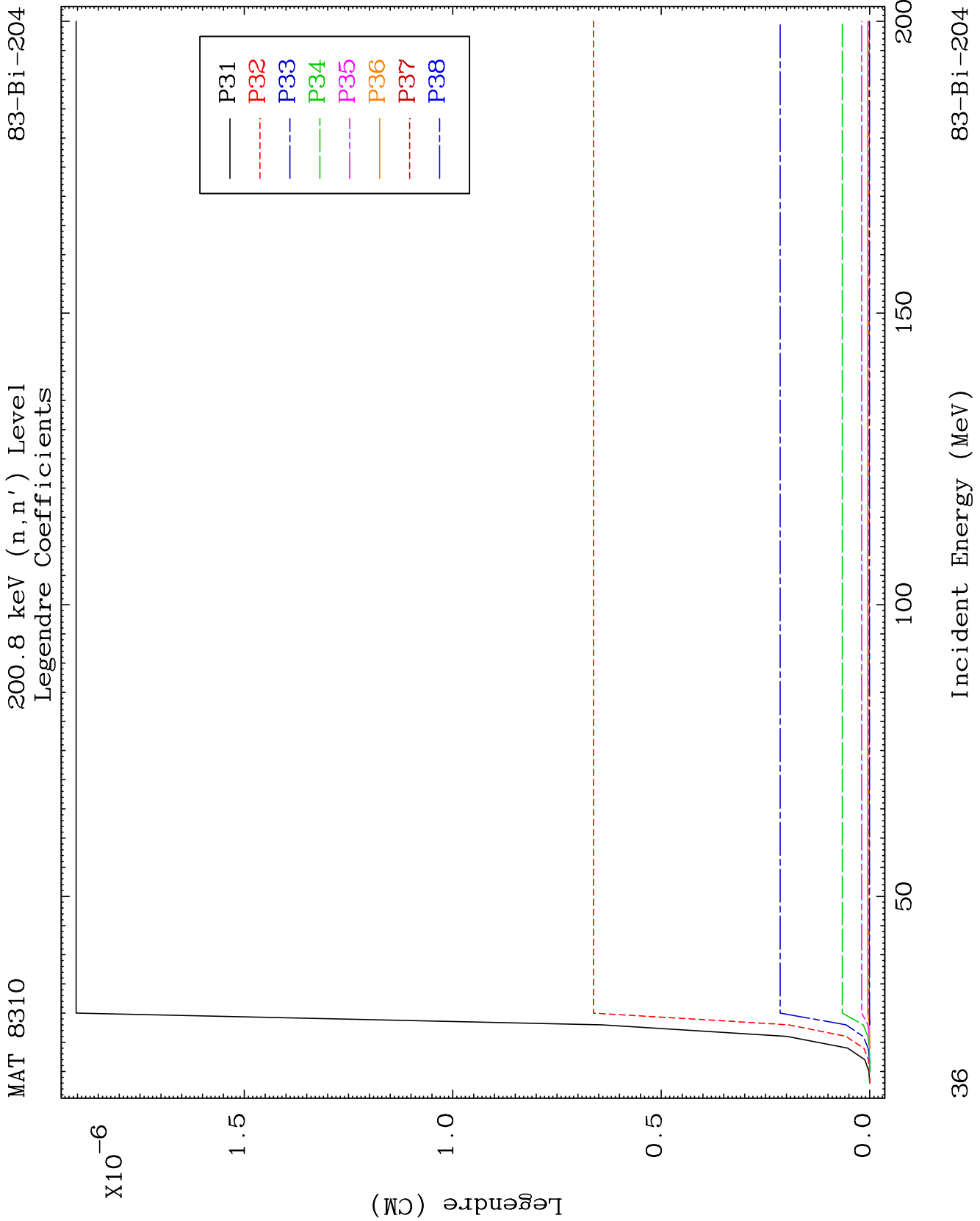
83-Bi-204



35

Incident Energy (MeV)

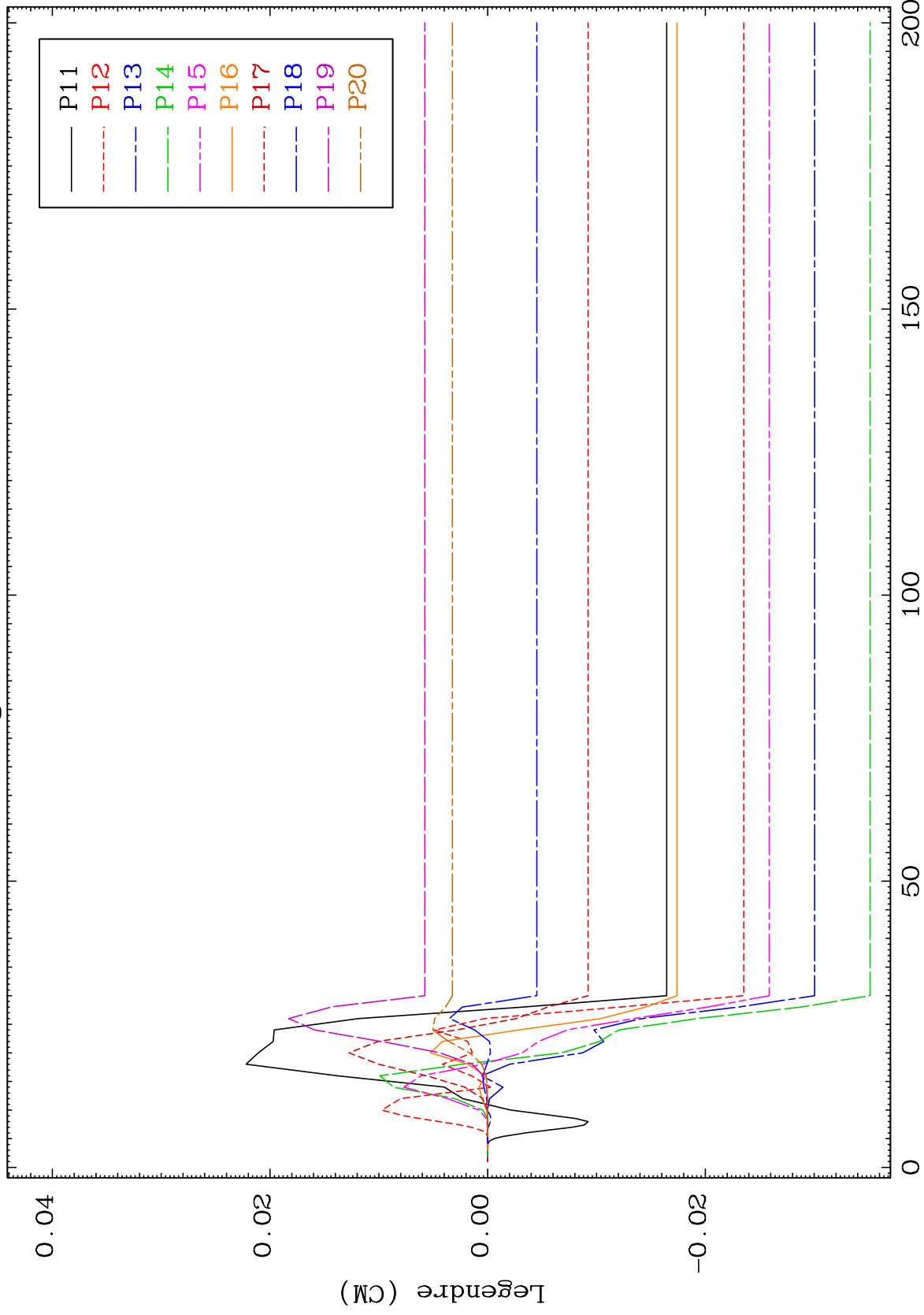
83-Bi-204



MAT 8310

215.3 keV (n,n') Level
Legendre Coefficients

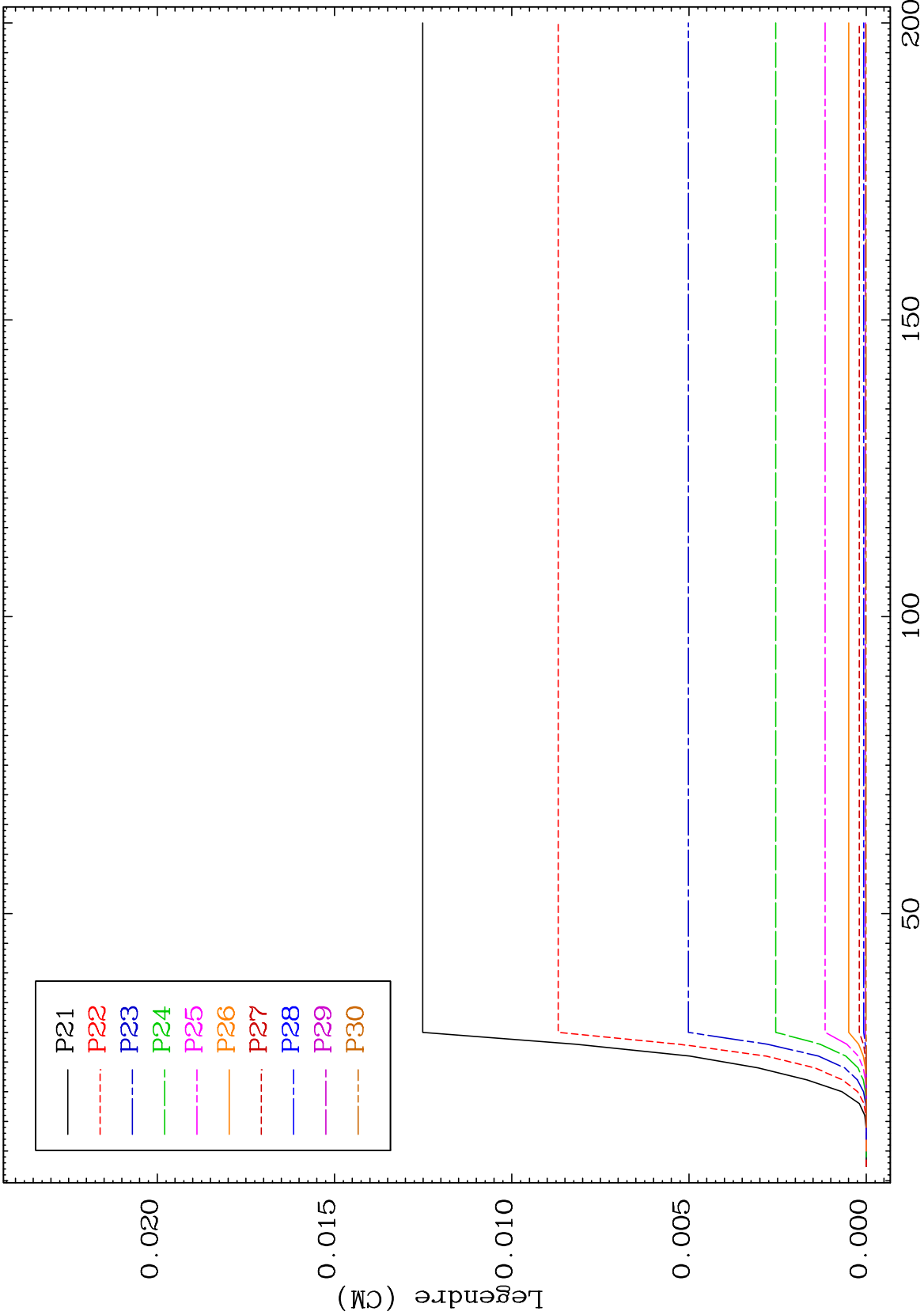
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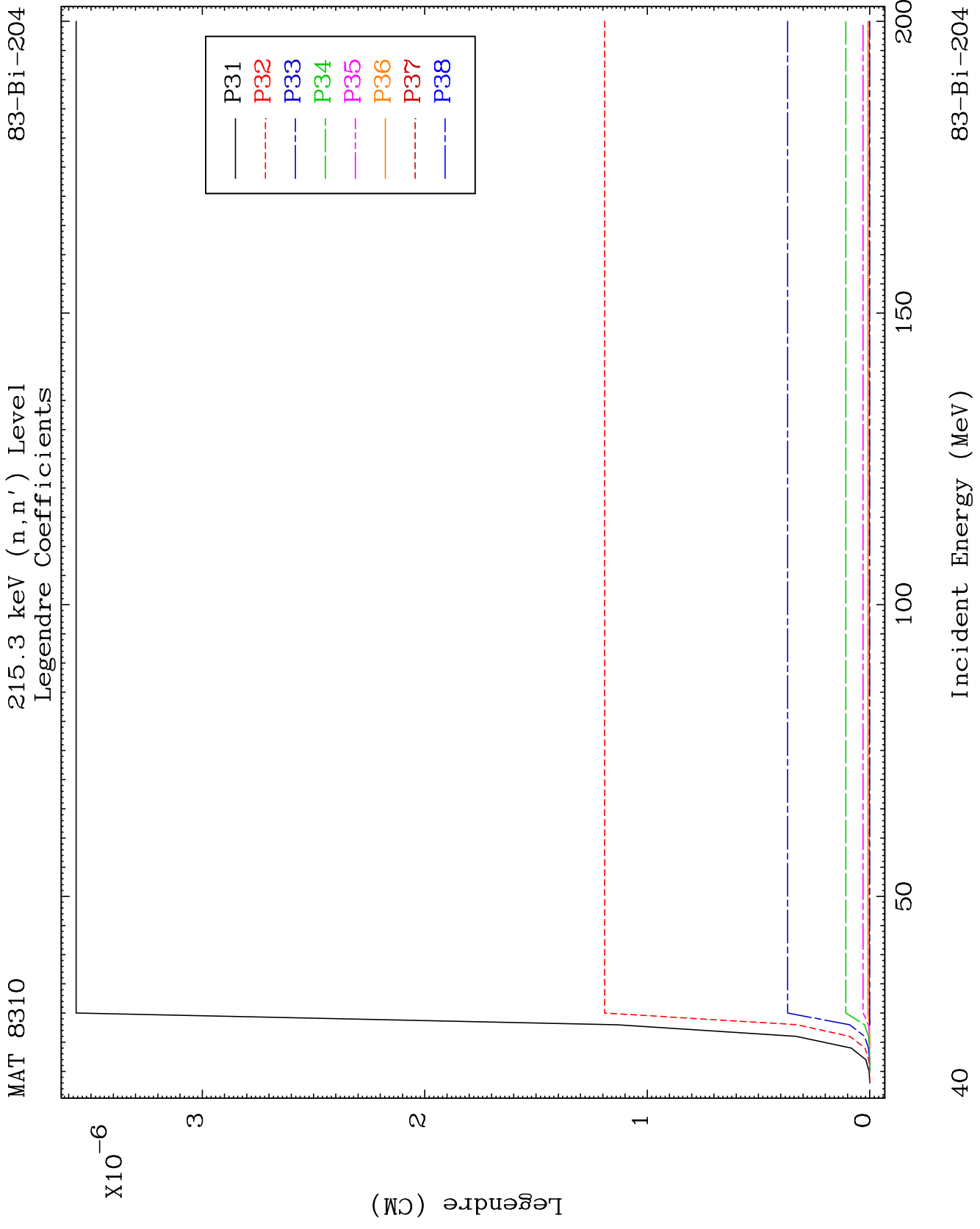


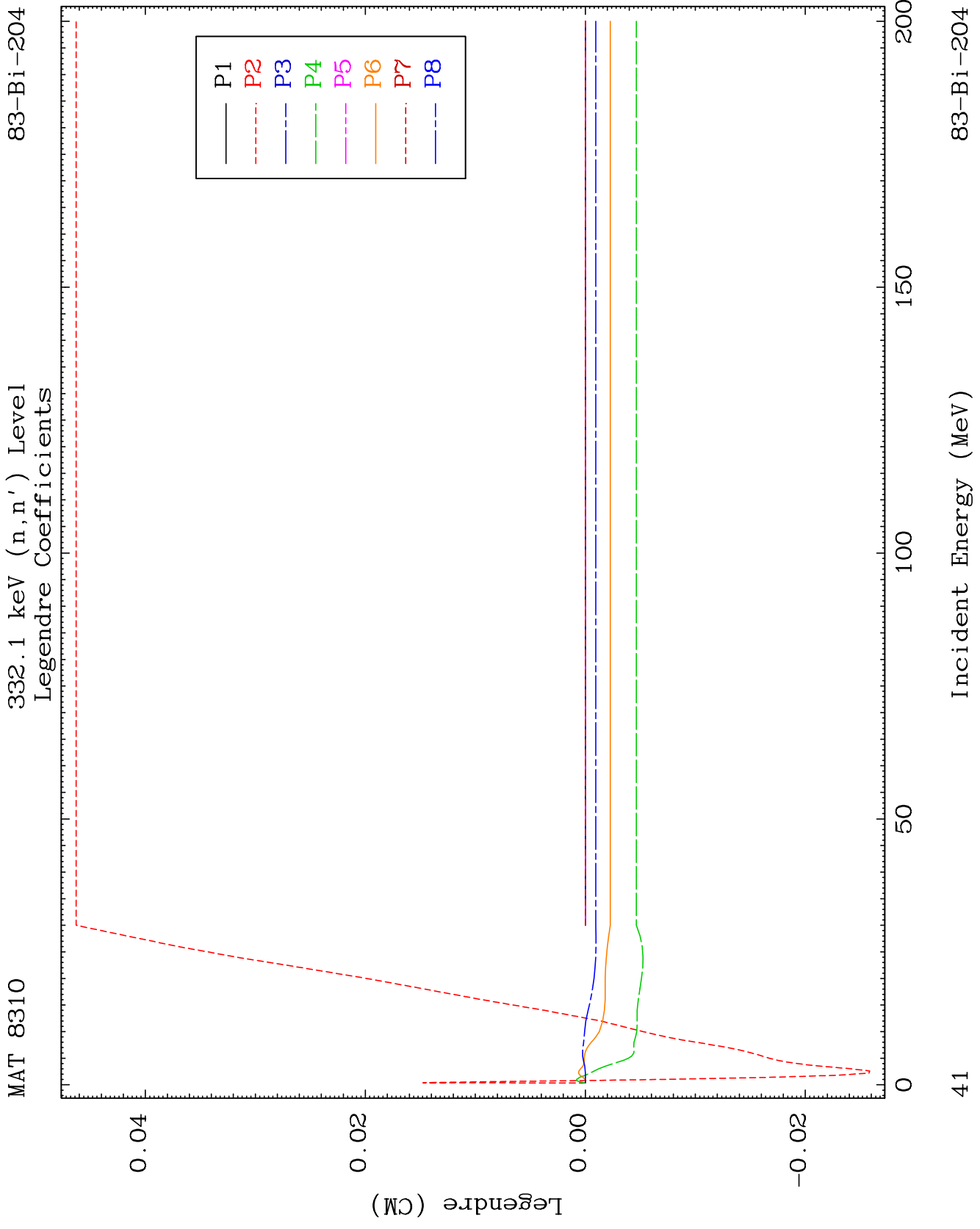
38

Incident Energy (MeV)

83-Bi-204



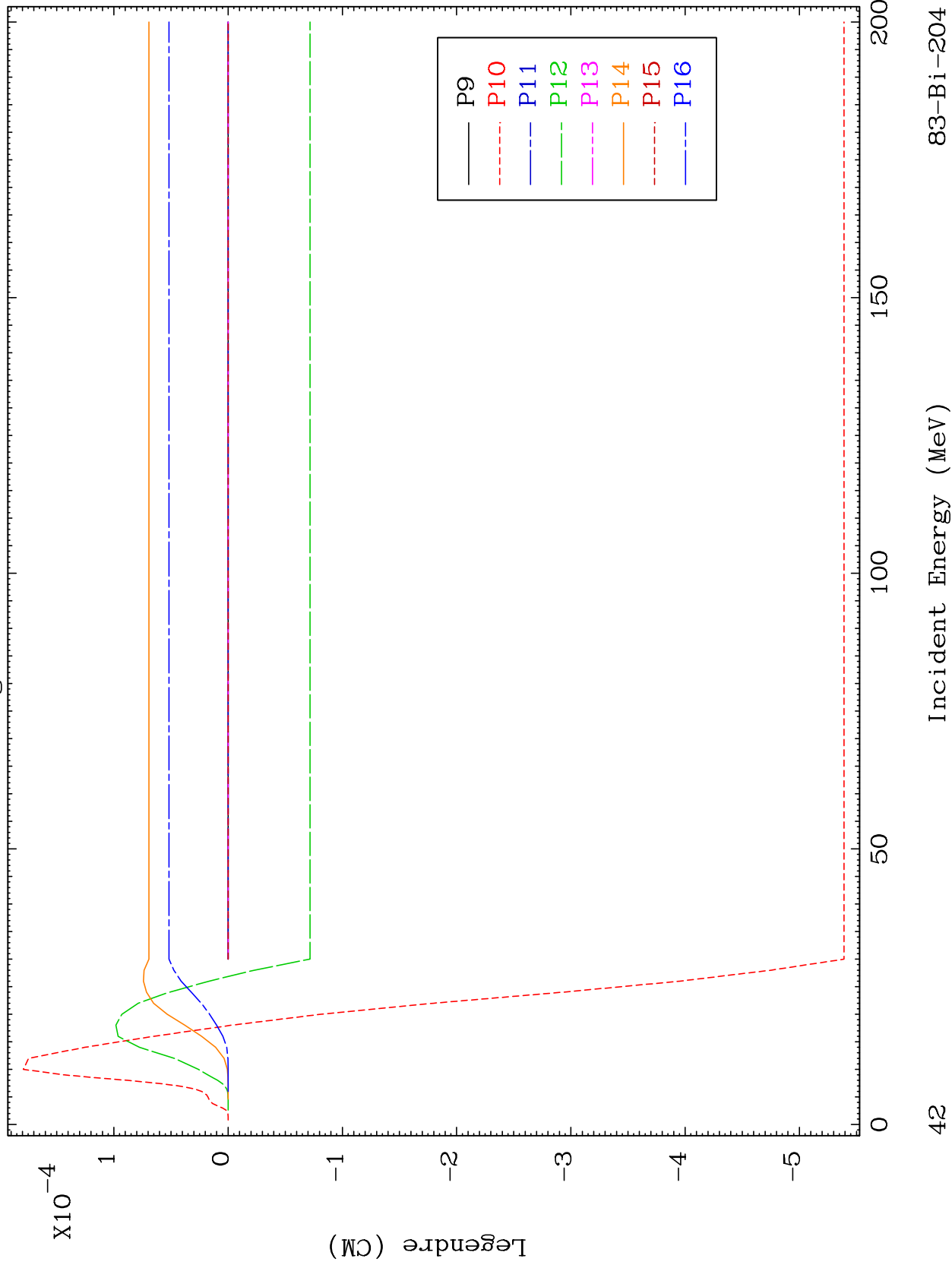


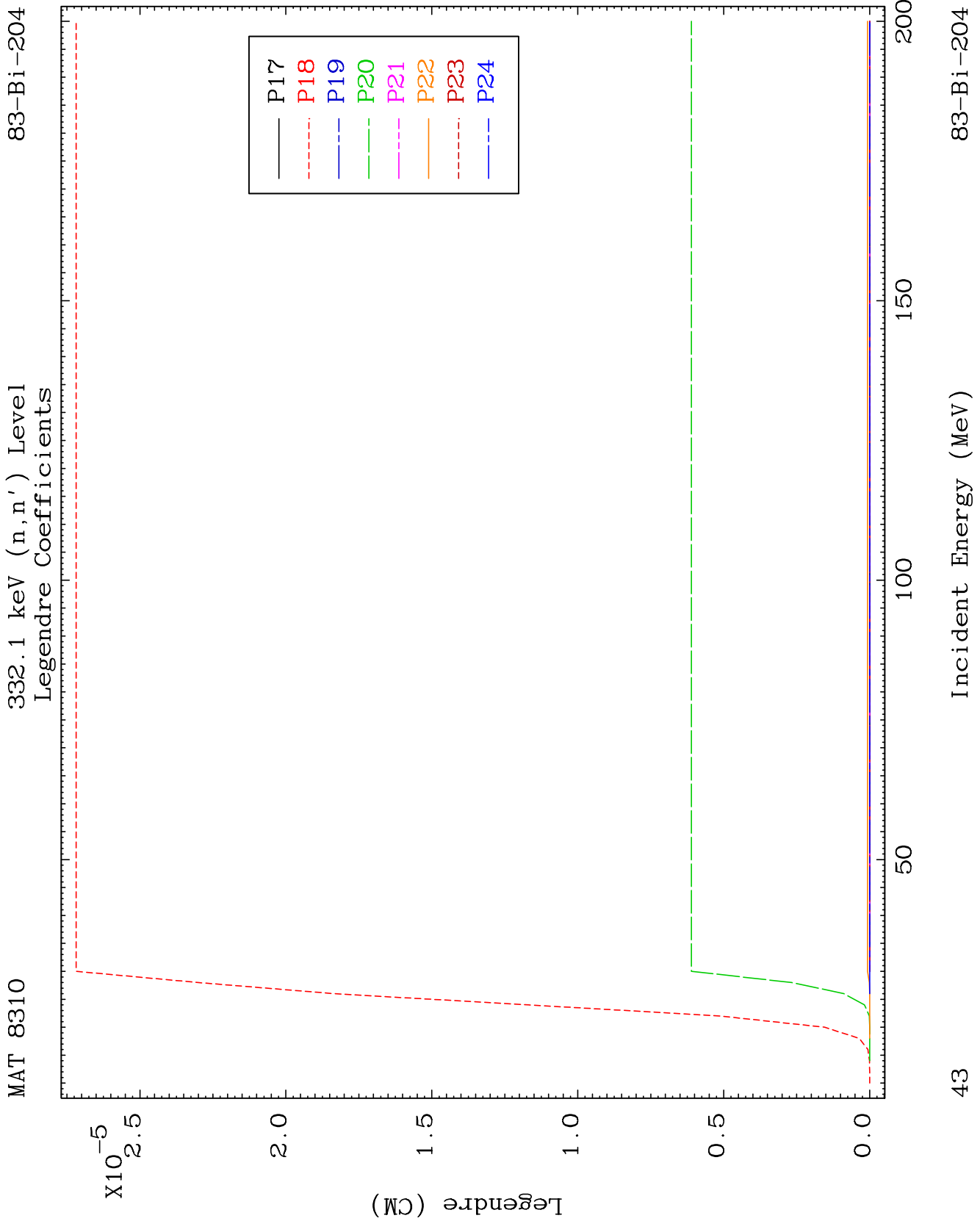


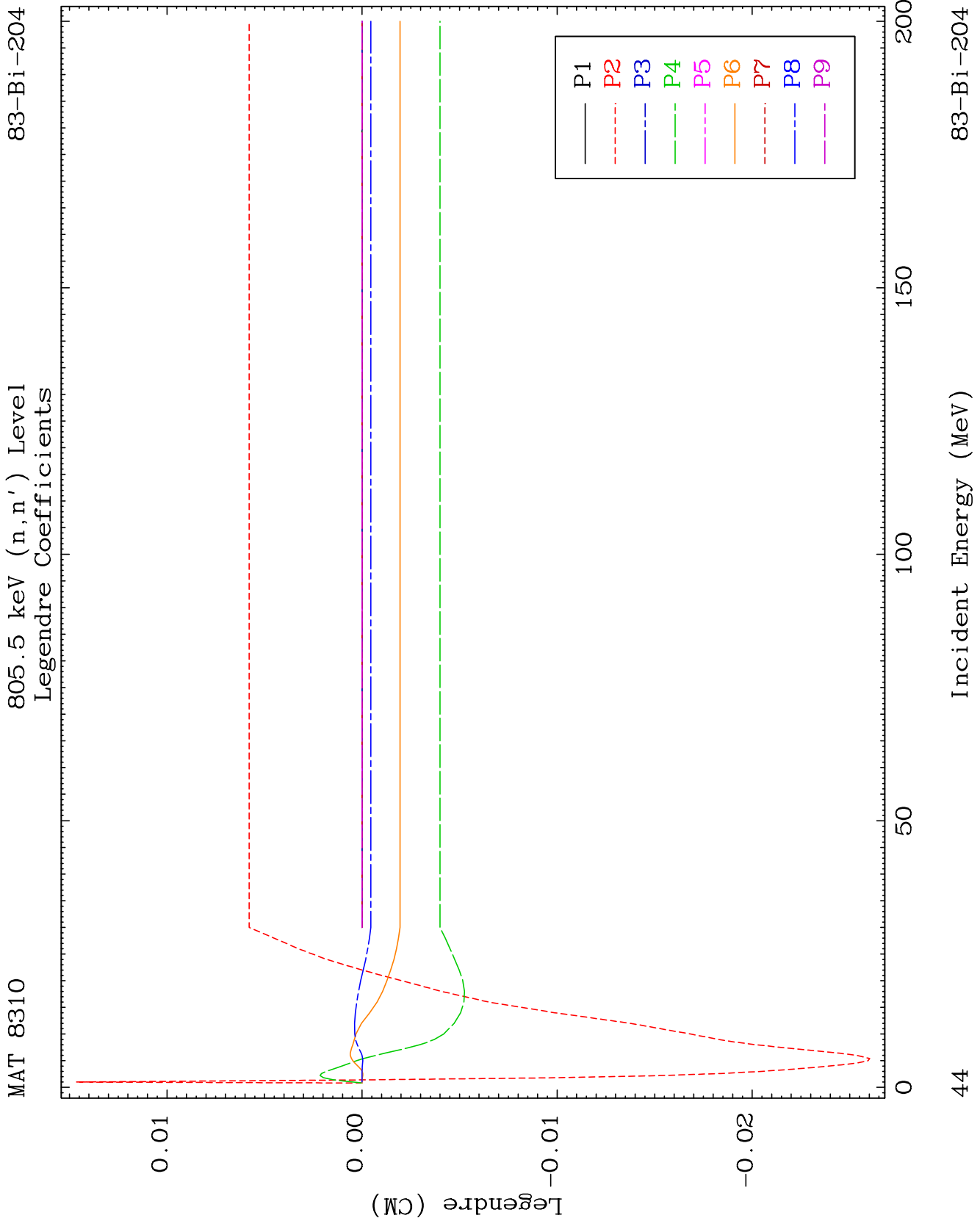
MAT 8310

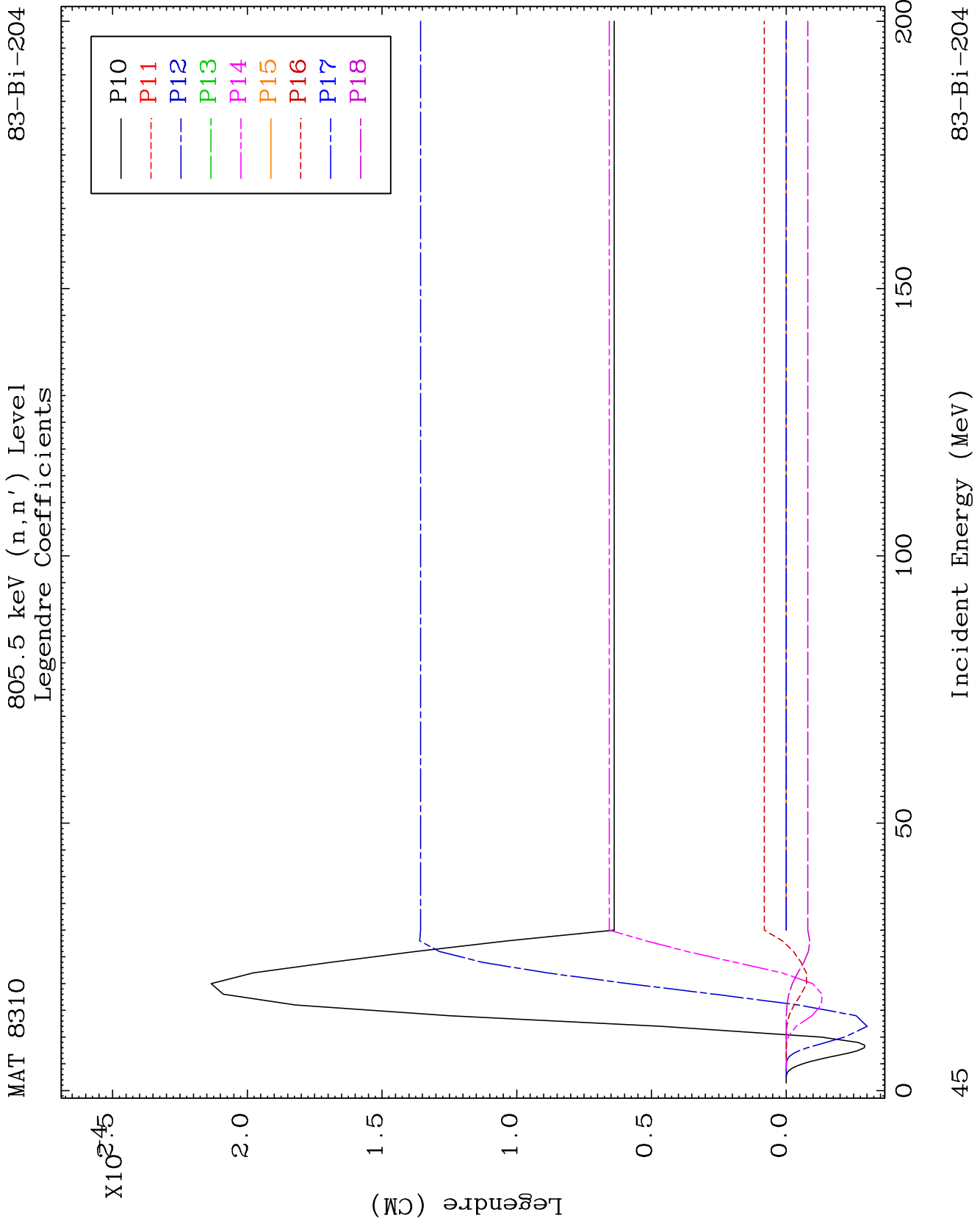
332.1 keV (n,n') Level
Legendre Coefficients

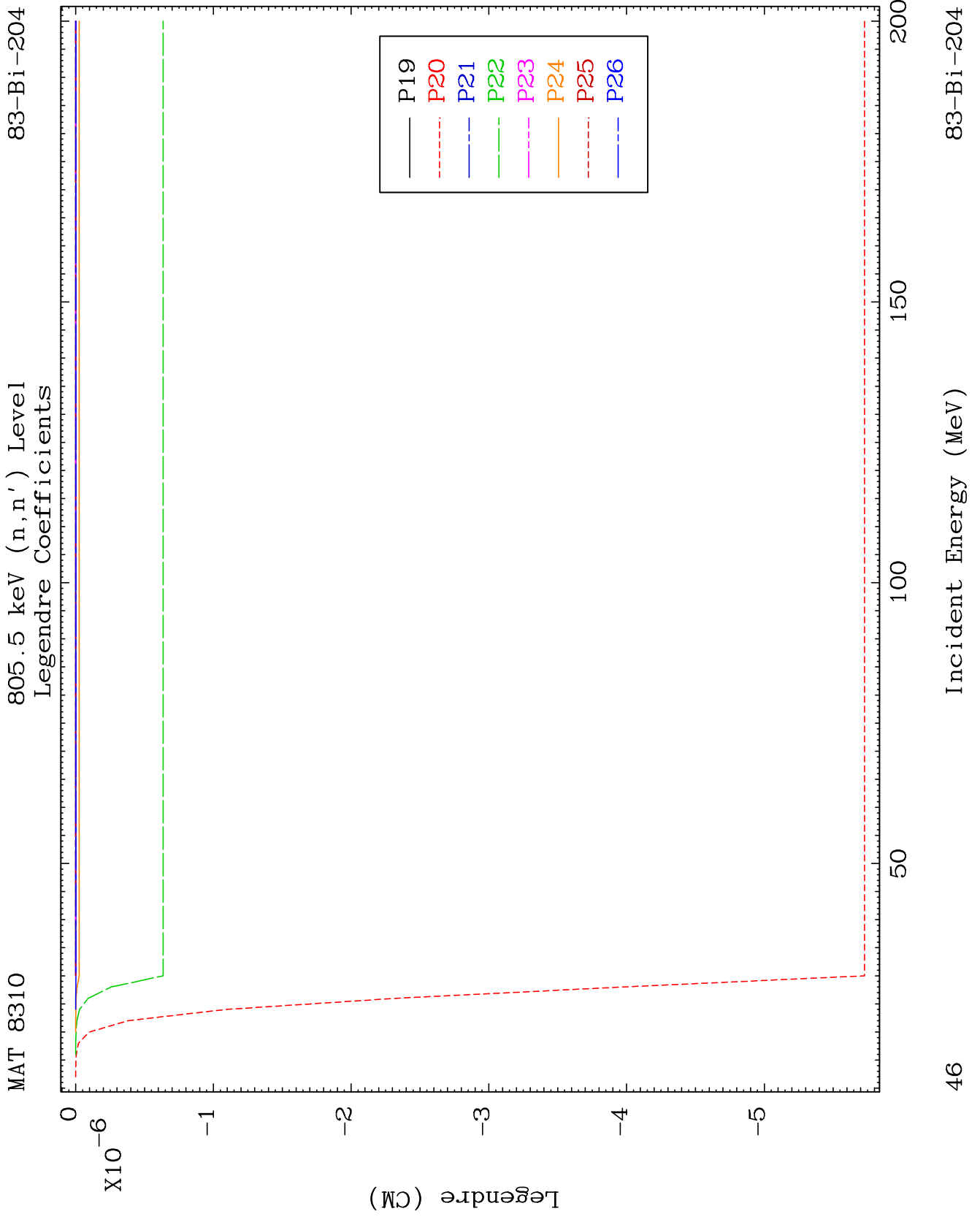
83-Bi-204

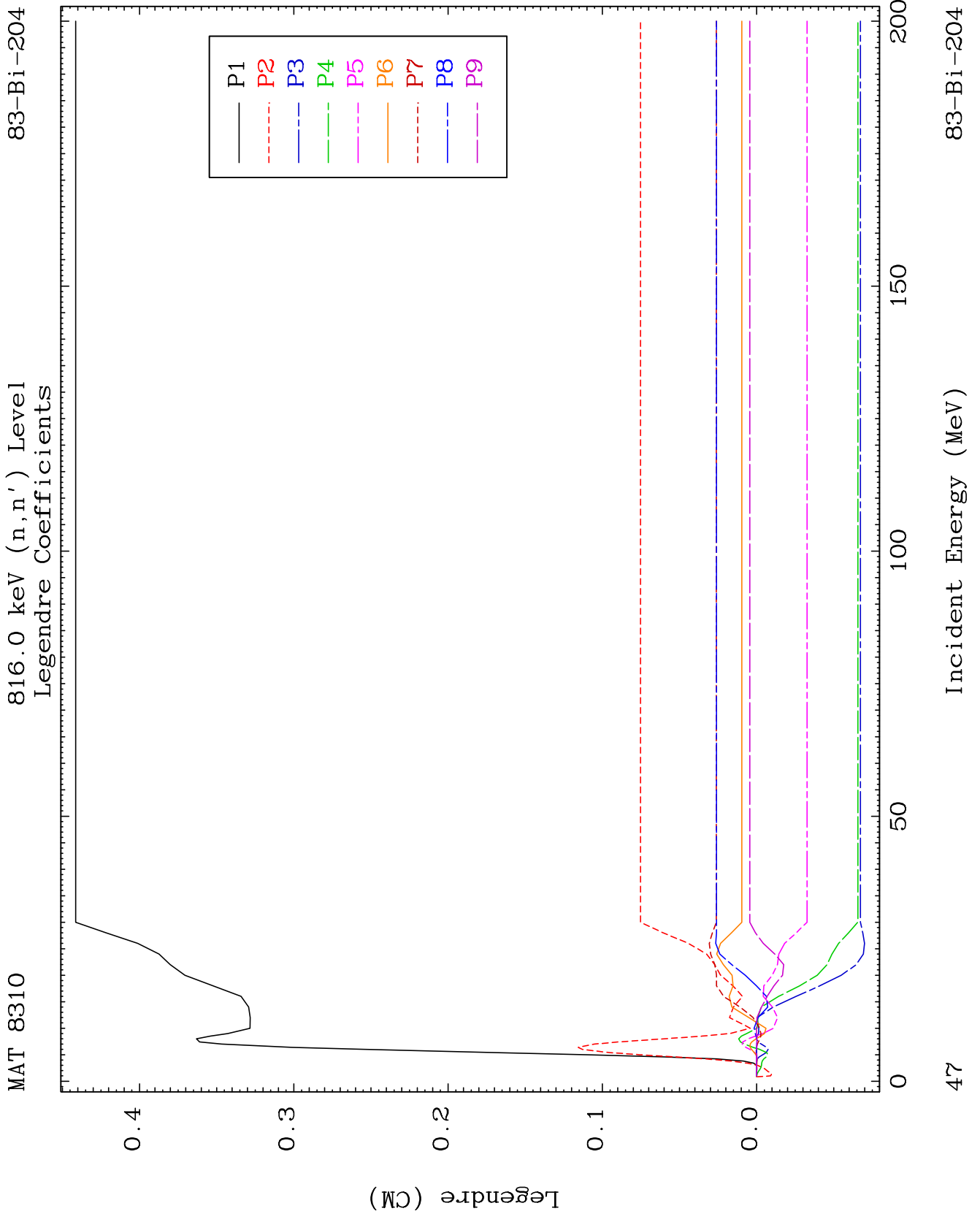


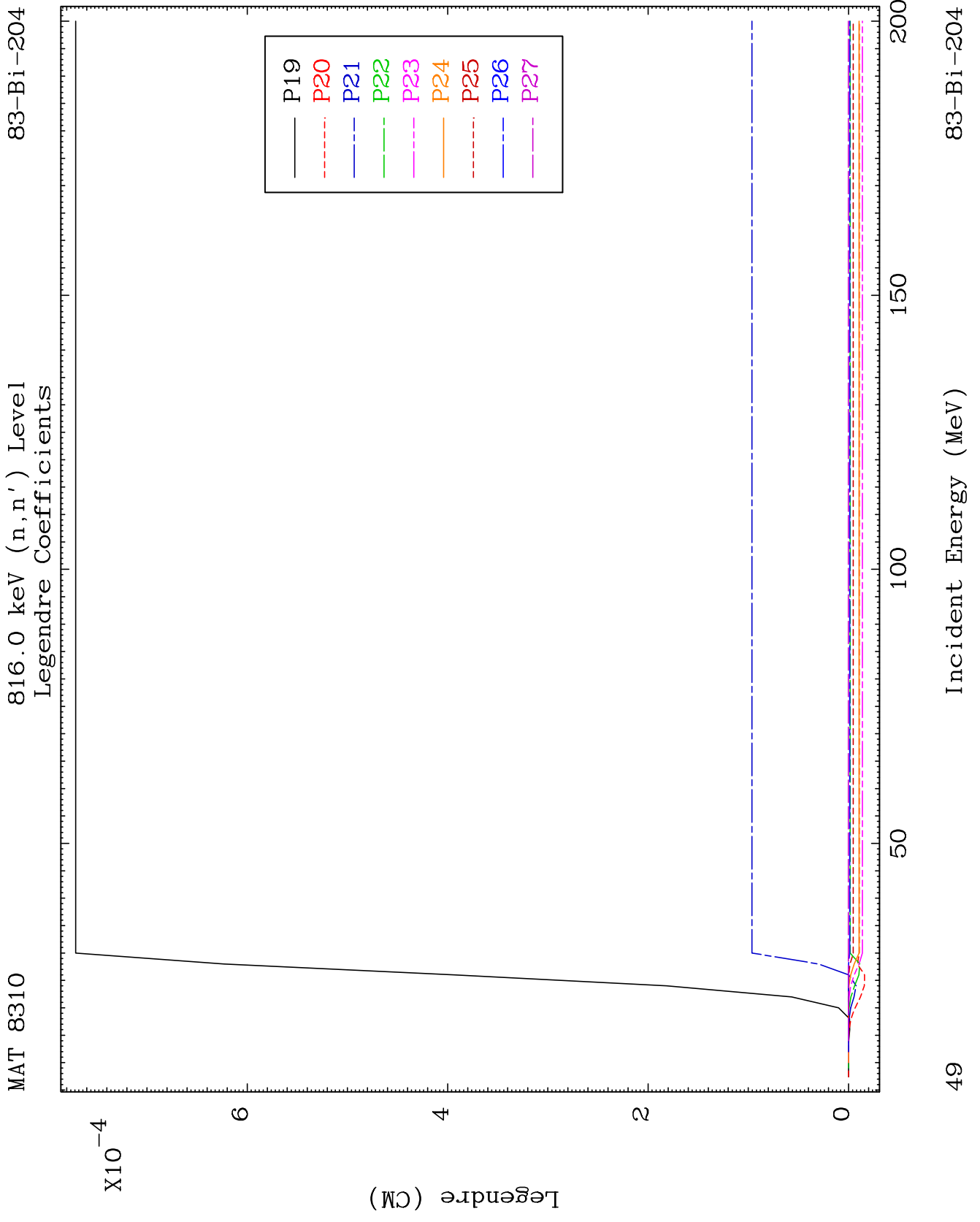








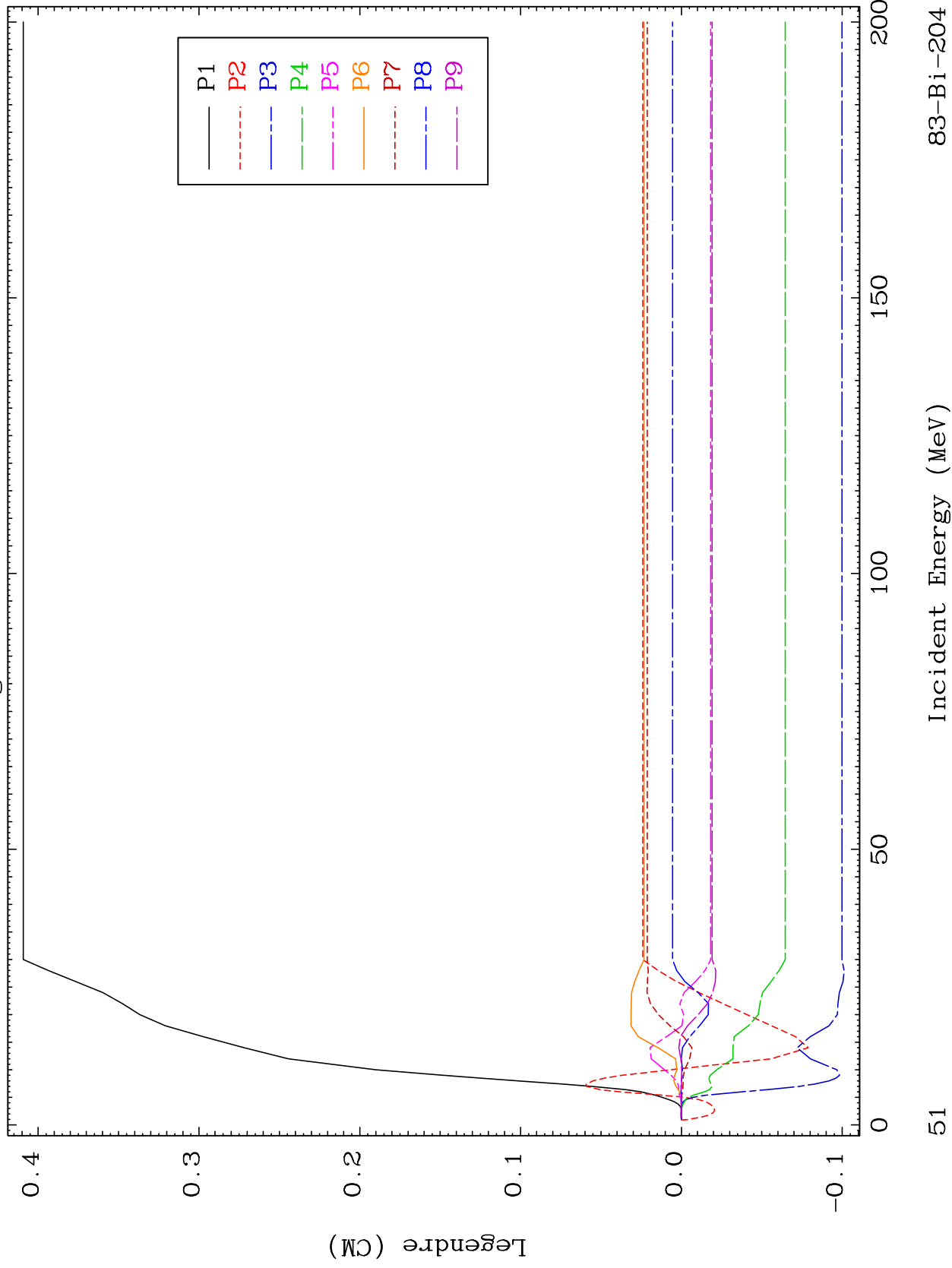




MAT 8310

876.3 keV (n,n') Level
Legendre Coefficients

83-Bi-204



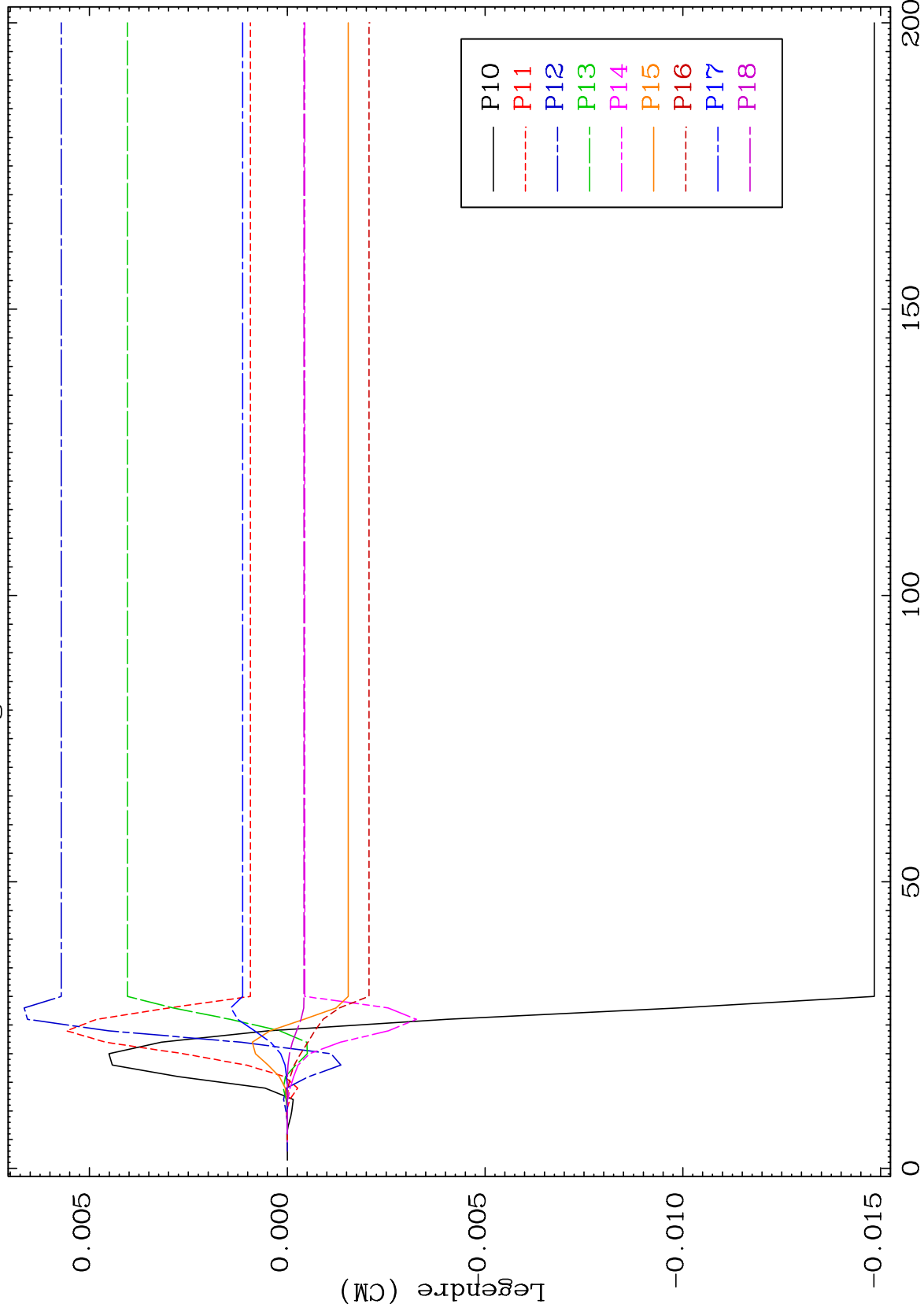
51

83-Bi-204

MAT 8310

876.3 keV (n,n') Level
Legendre Coefficients

83-Bi-204



52

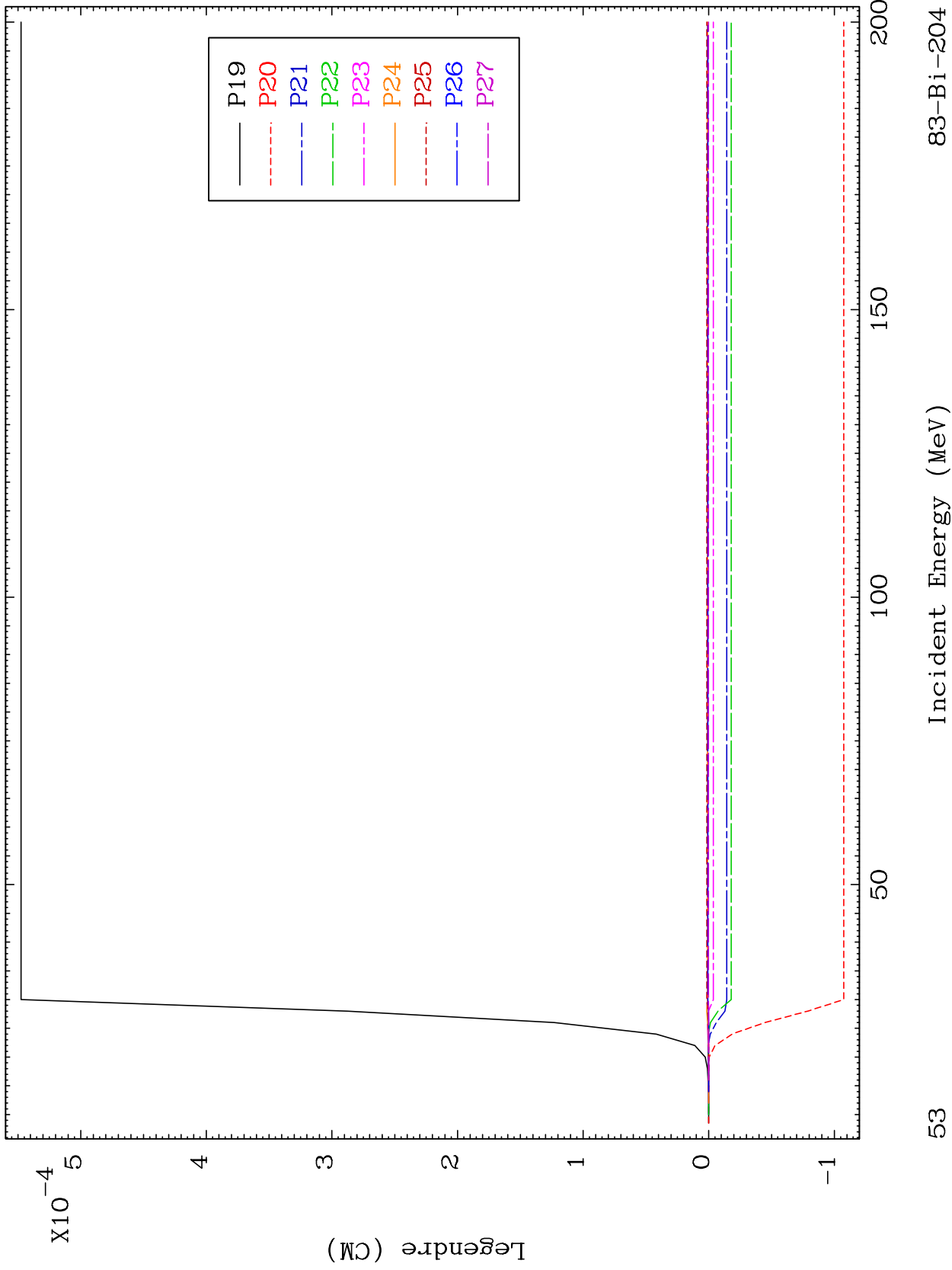
Incident Energy (MeV)

83-Bi-204

MAT 8310

876.3 keV (n,n') Level
Legendre Coefficients

83-Bi-204



53

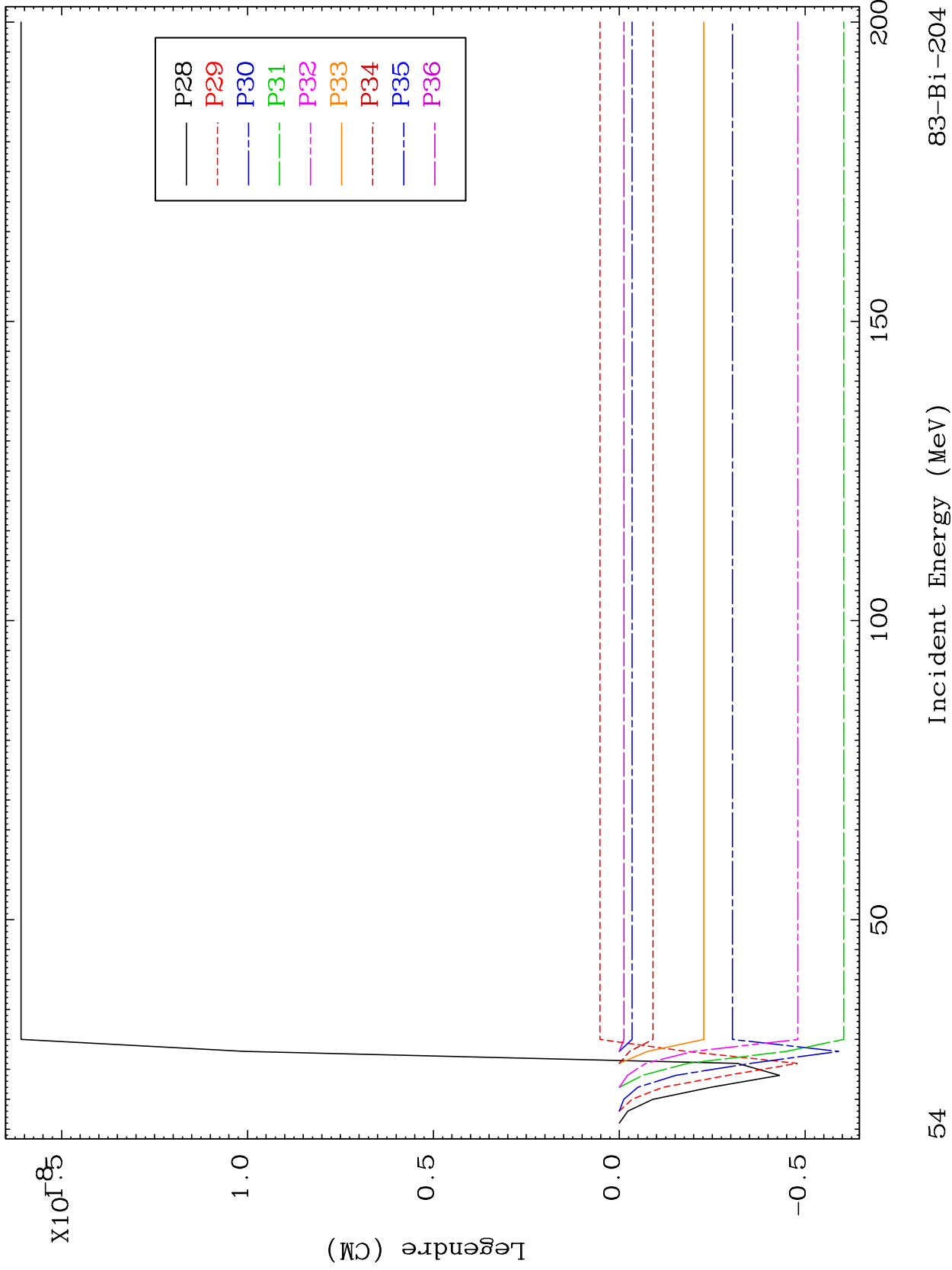
Incident Energy (MeV)

83-Bi-204

MAT 8310

876.3 keV (n,n') Level
Legendre Coefficients

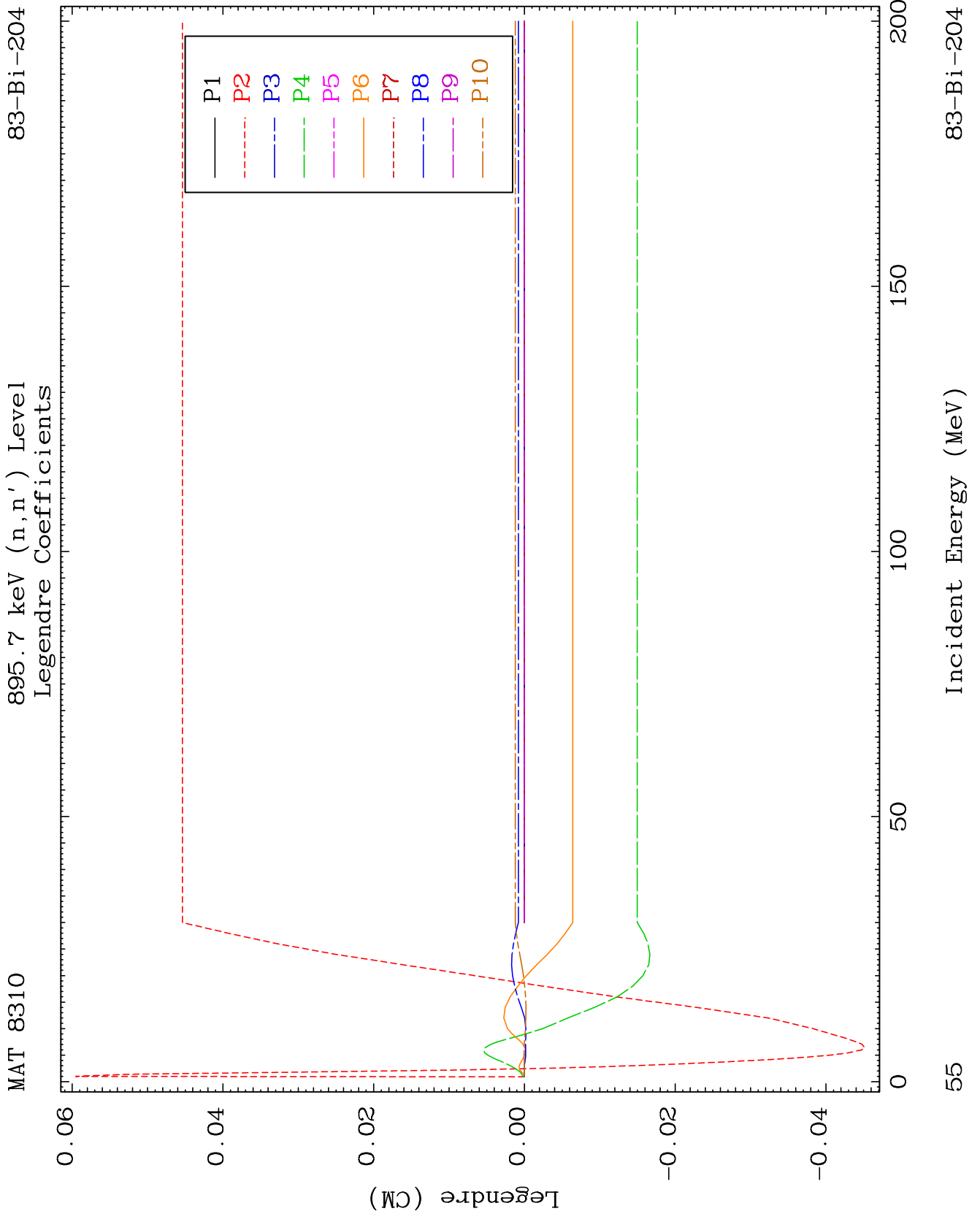
83-Bi-204



54

Incident Energy (MeV)

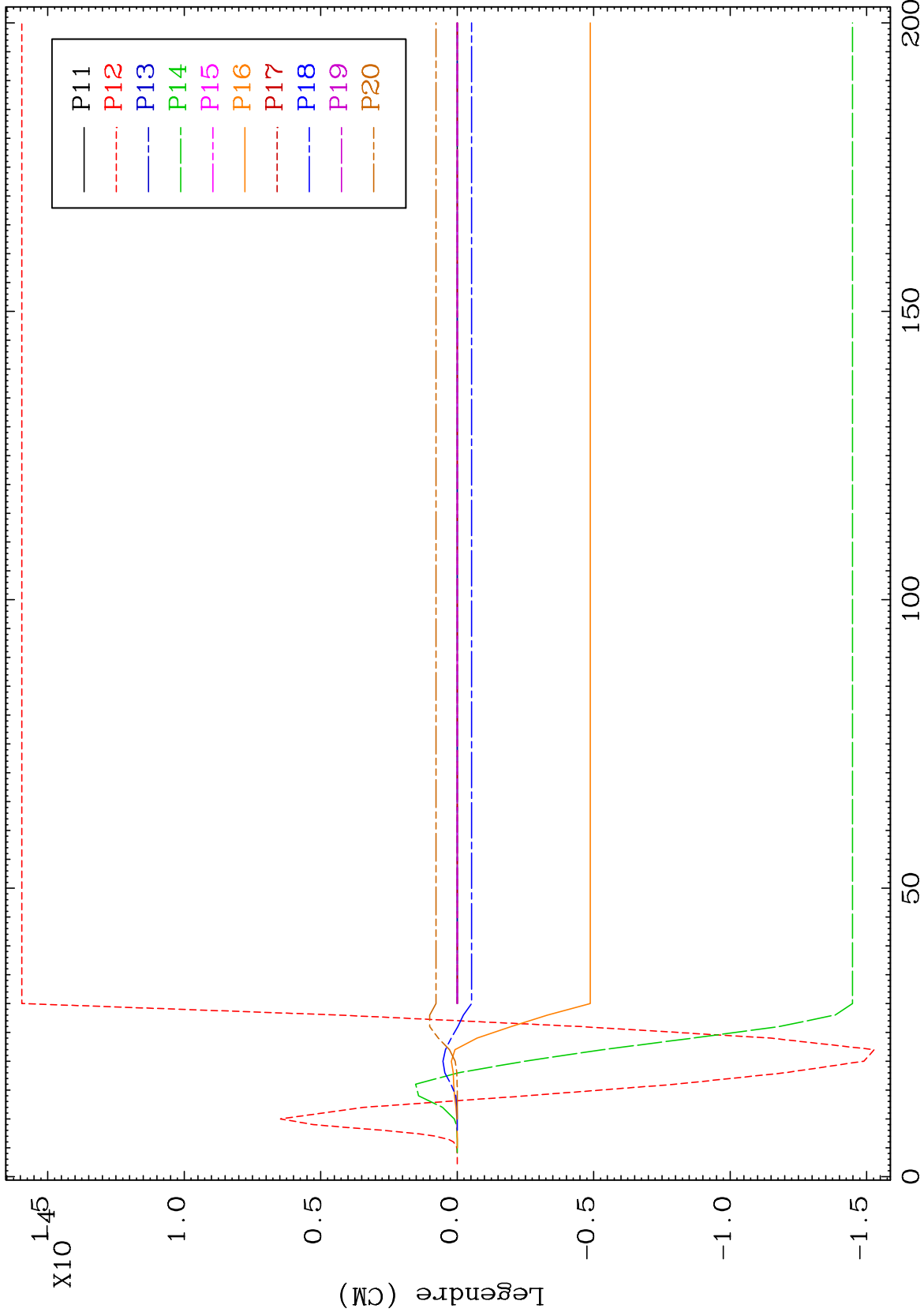
83-Bi-204



MAT 8310

895.7 keV (n,n') Level
Legendre Coefficients

83-Bi-204



56

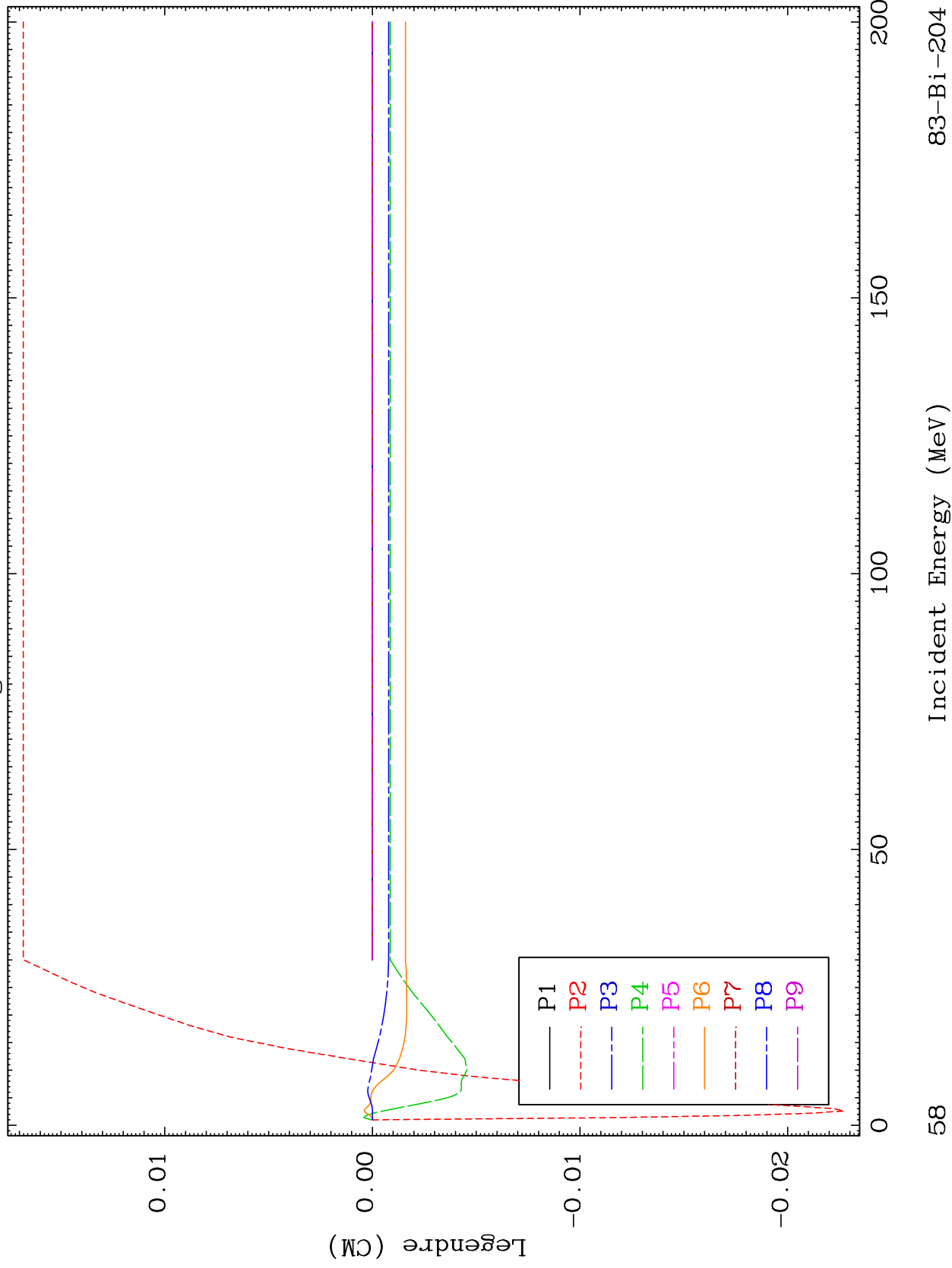
83-Bi-204

83-Bi-204

MAT 8310

941.5 keV (n,n') Level
Legendre Coefficients

83-Bi-204



83-Bi-204

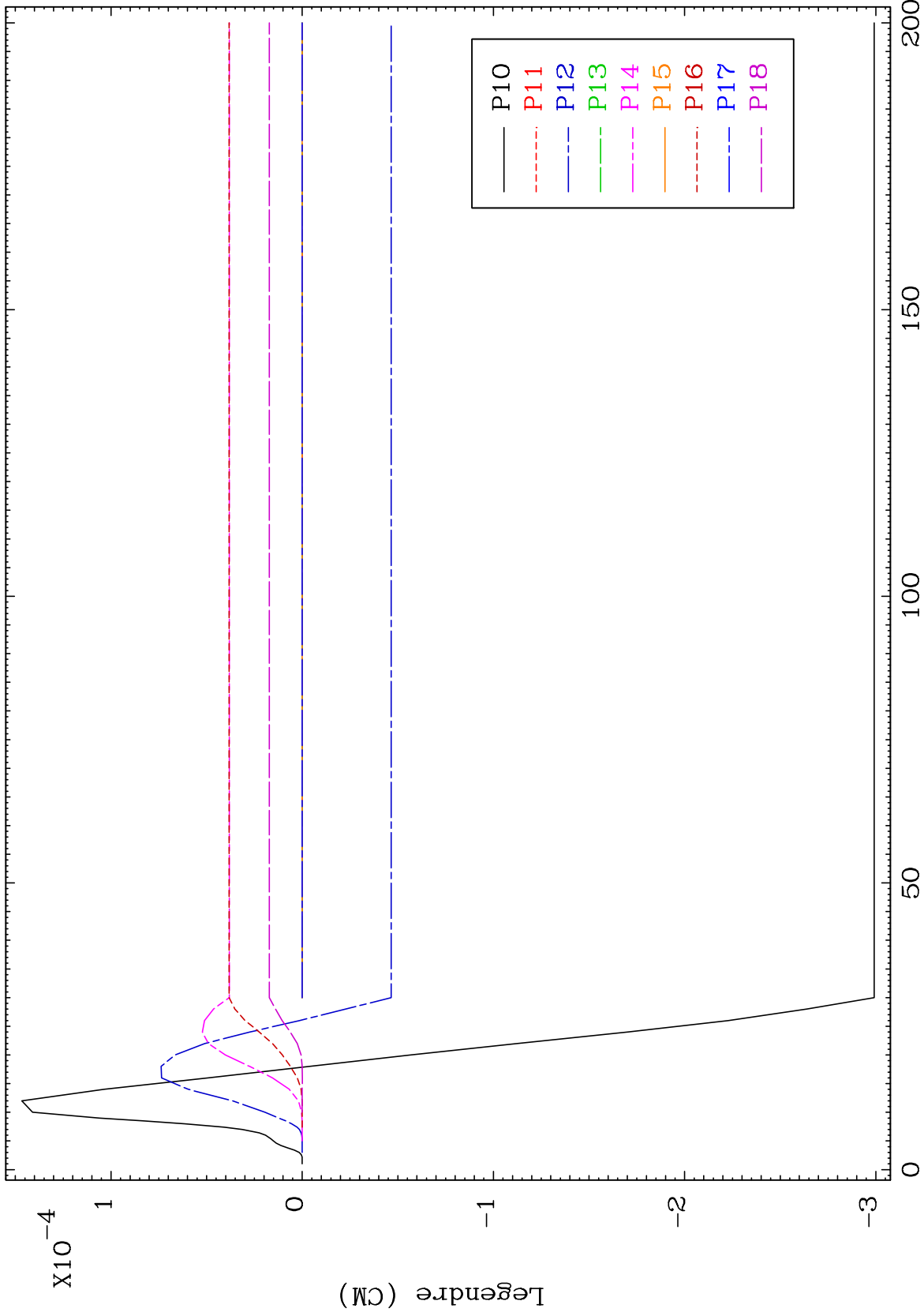
Incident Energy (MeV)

58

MAT 8310

941.5 keV (n,n') Level
Legendre Coefficients

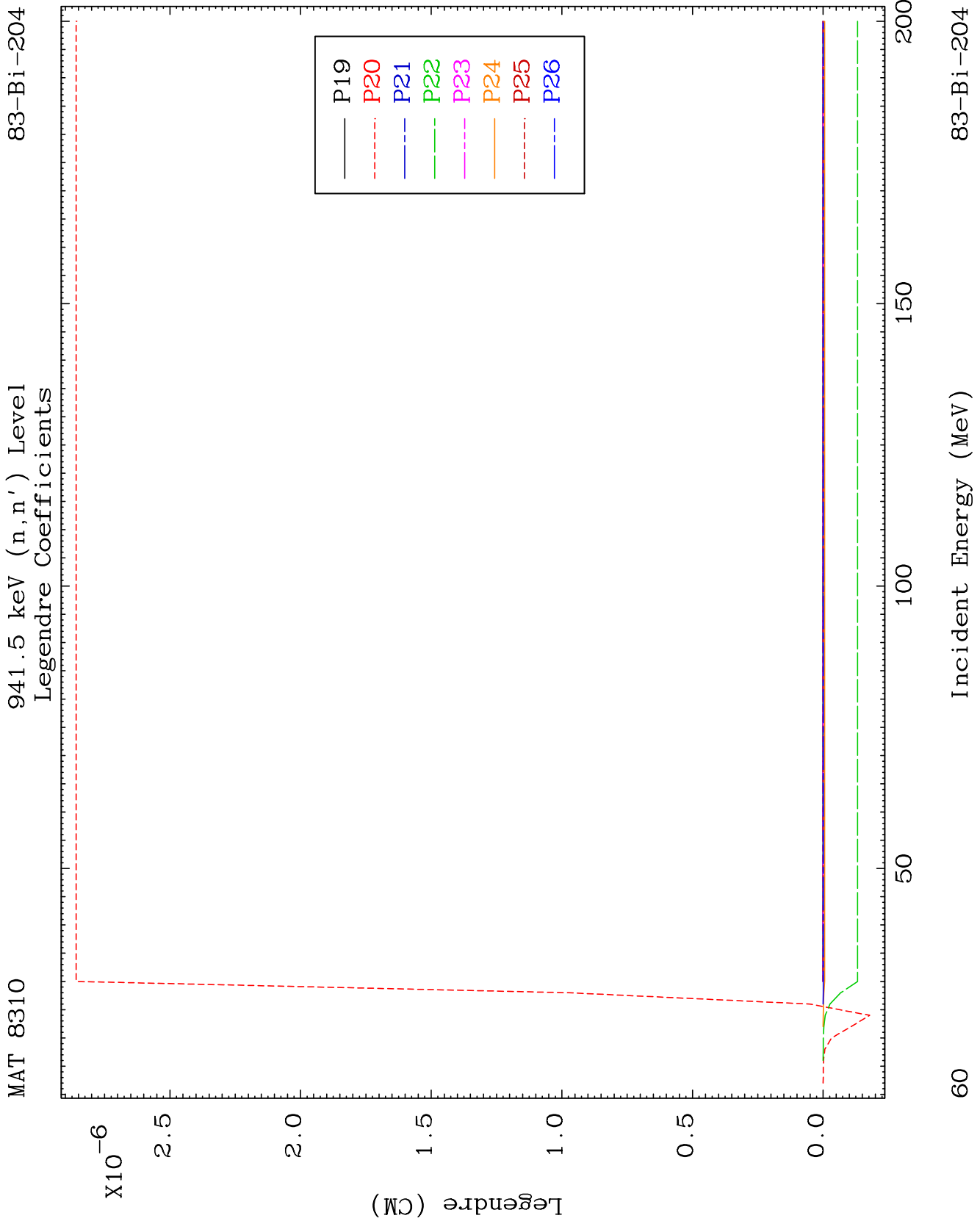
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59

Incident Energy (MeV)

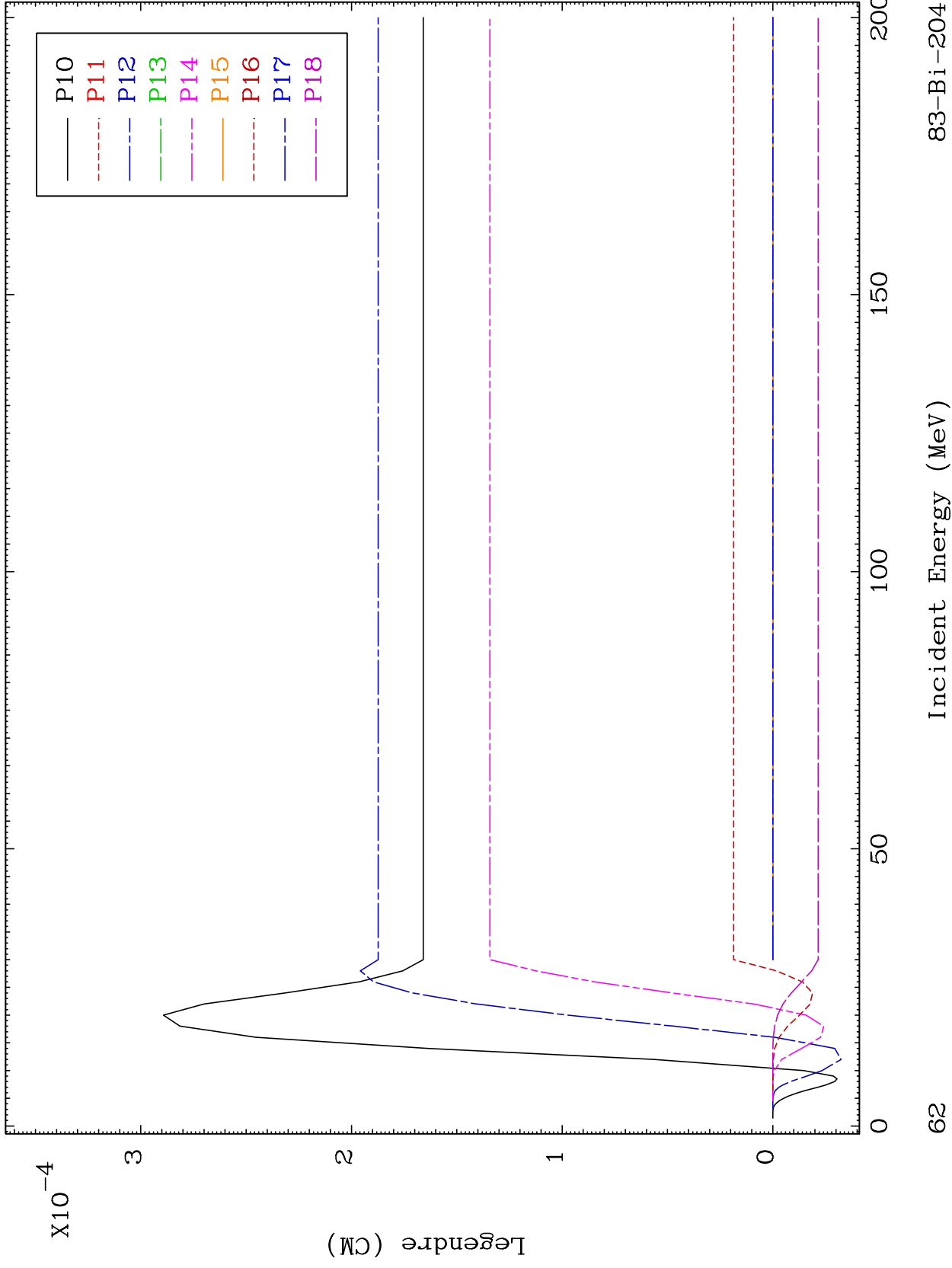
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MAT 8310

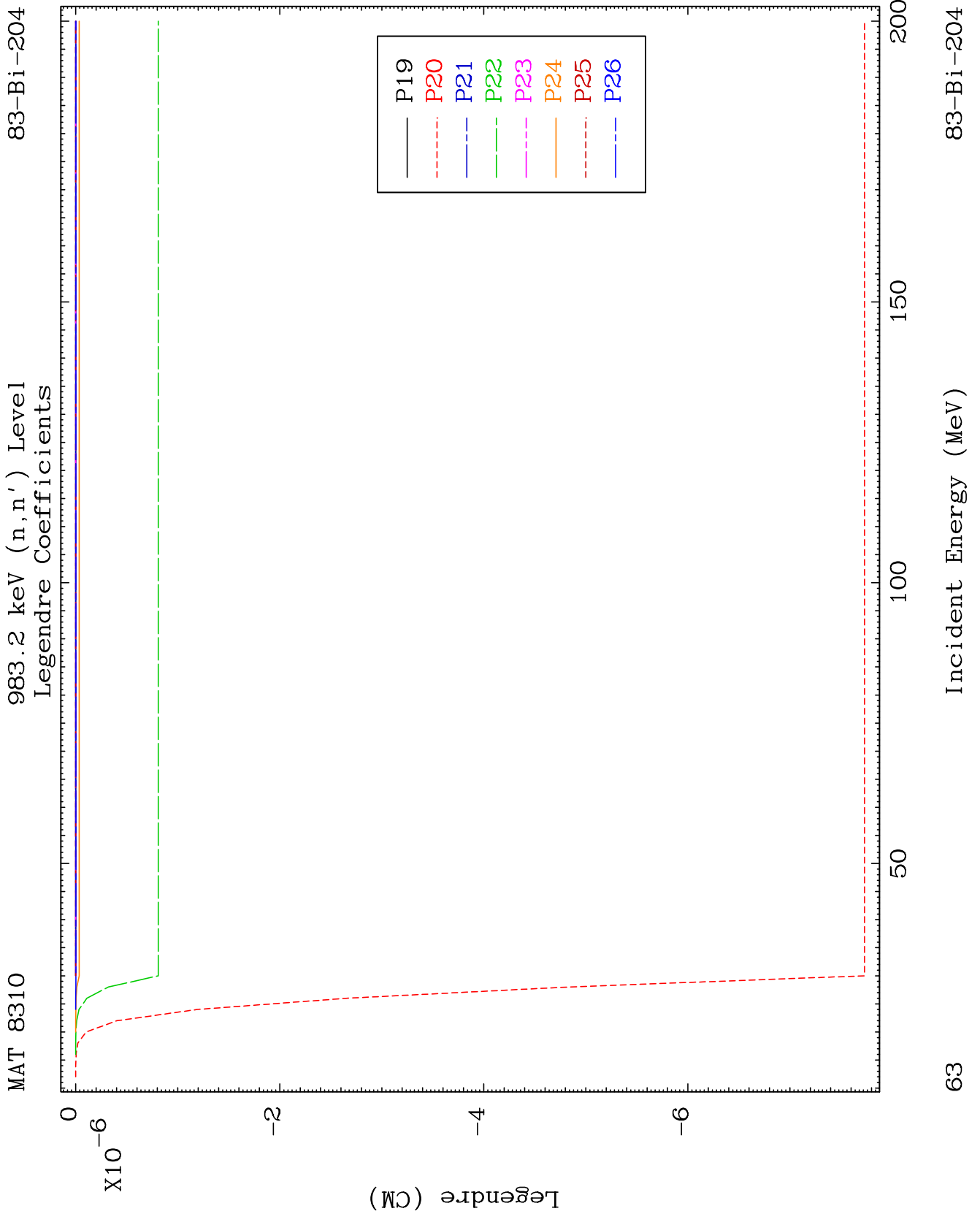
983.2 keV (n,n') Level
Legendre Coefficients

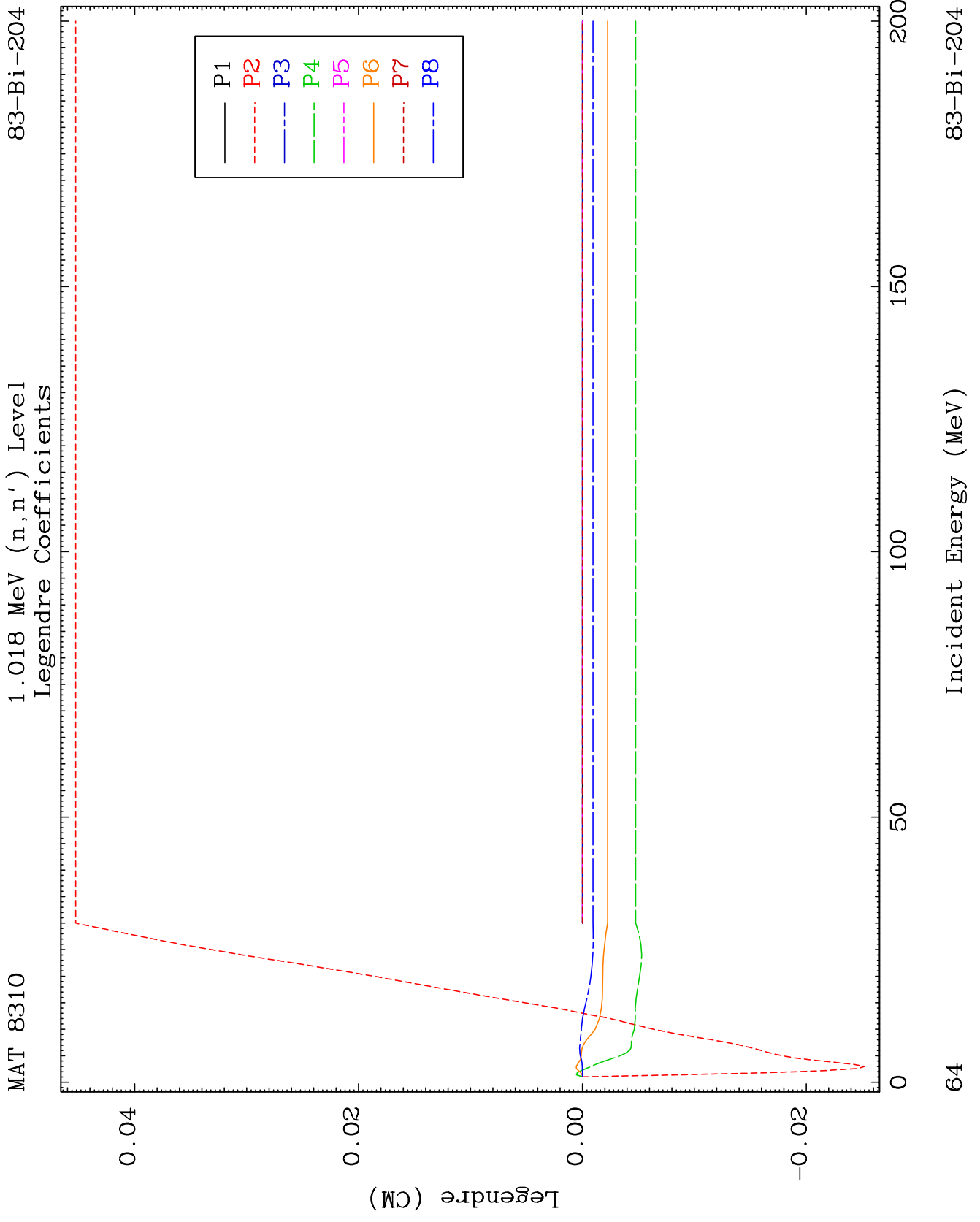
83-Bi-204



62

83-Bi-204

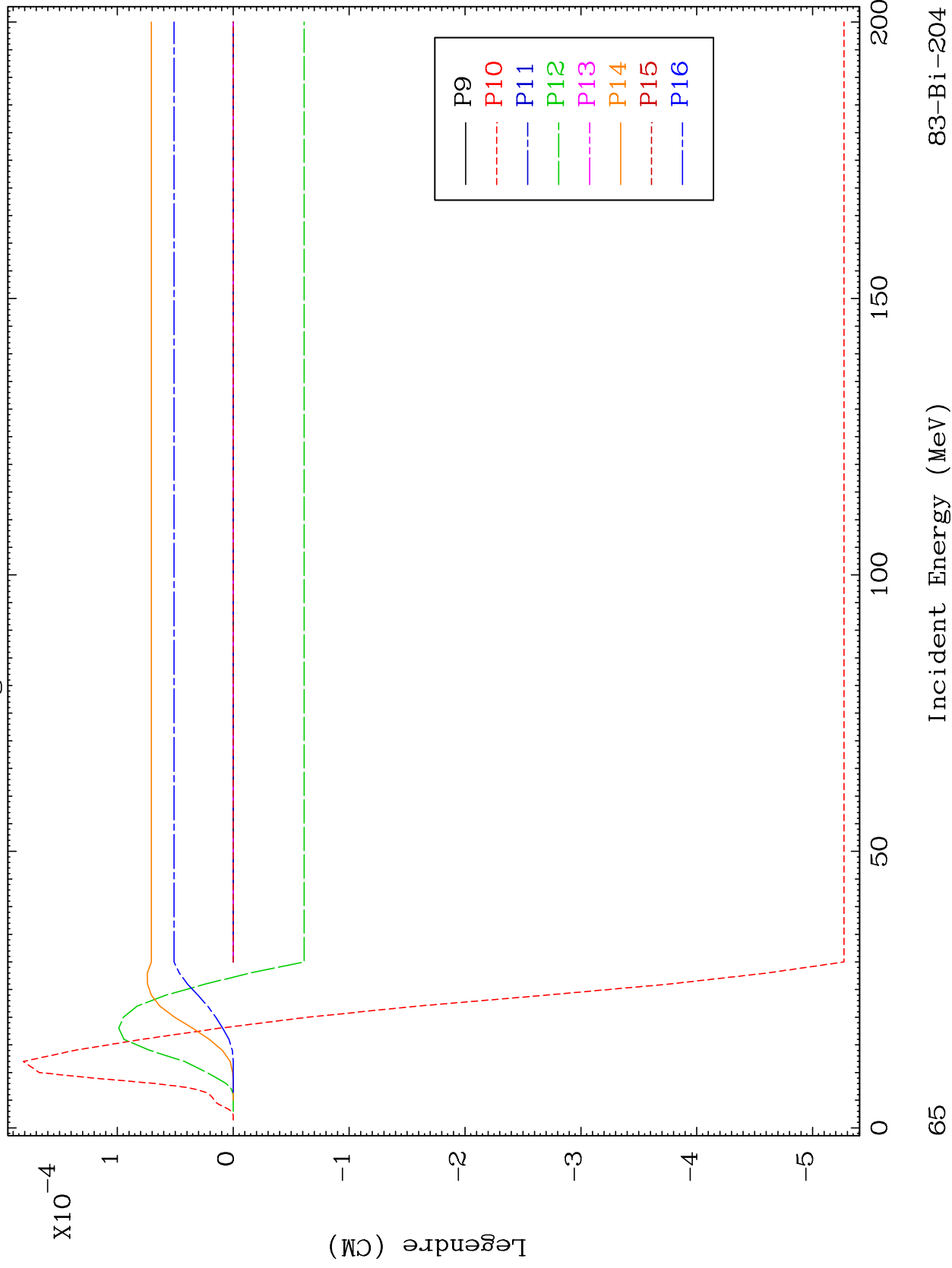




MAT 8310

1.018 MeV (n,n') Level
Legendre Coefficients

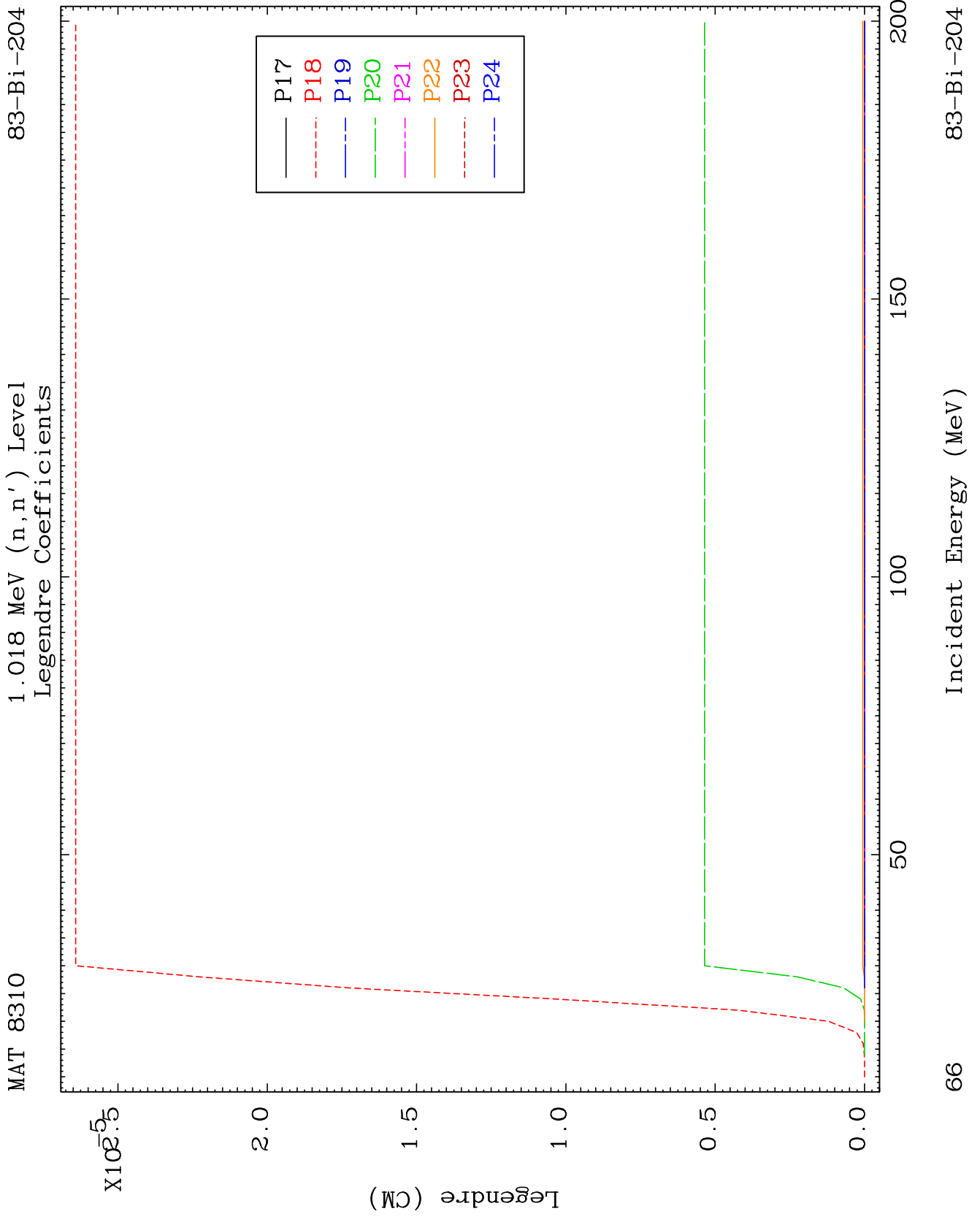
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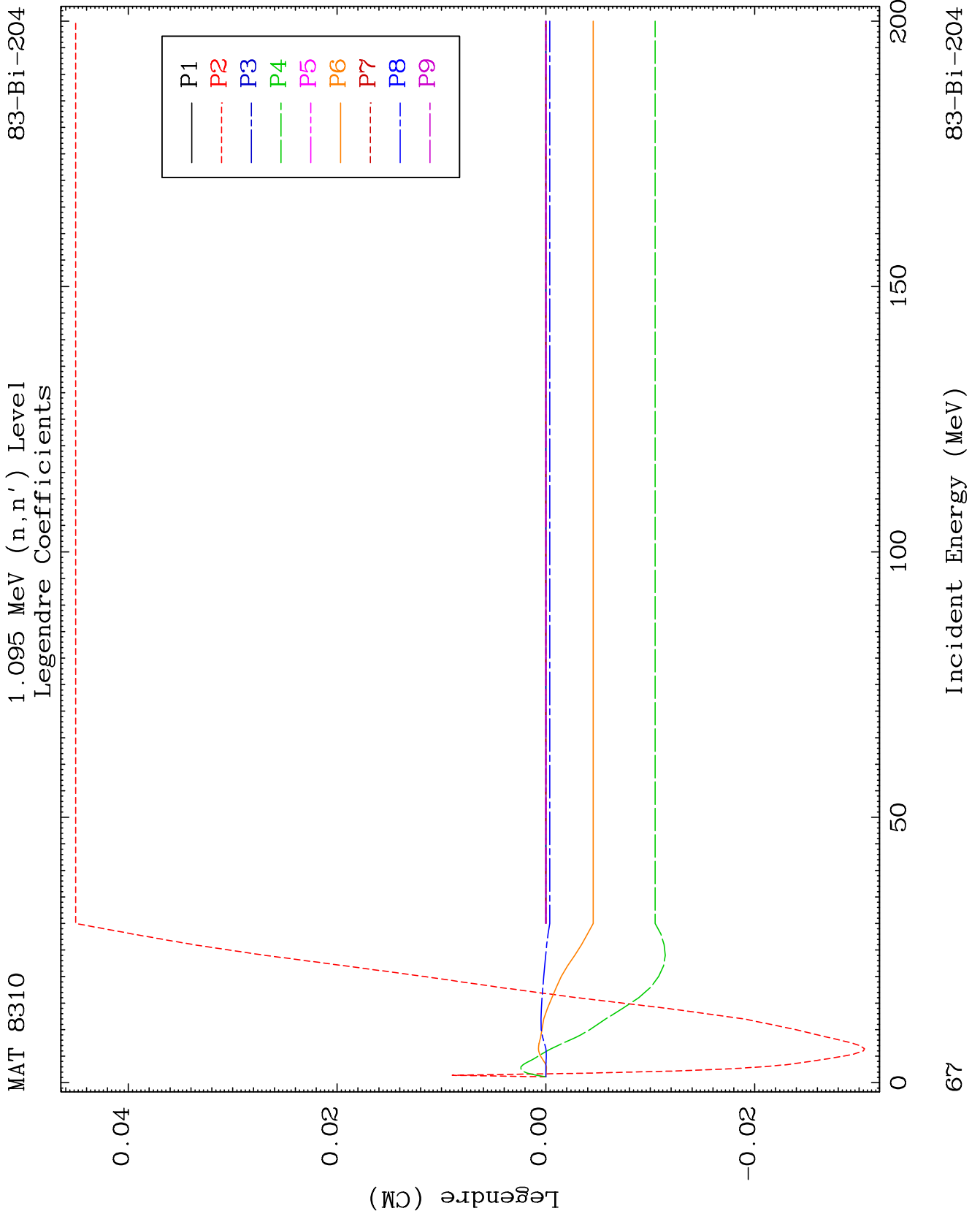


83-Bi-204

Incident Energy (MeV)

65

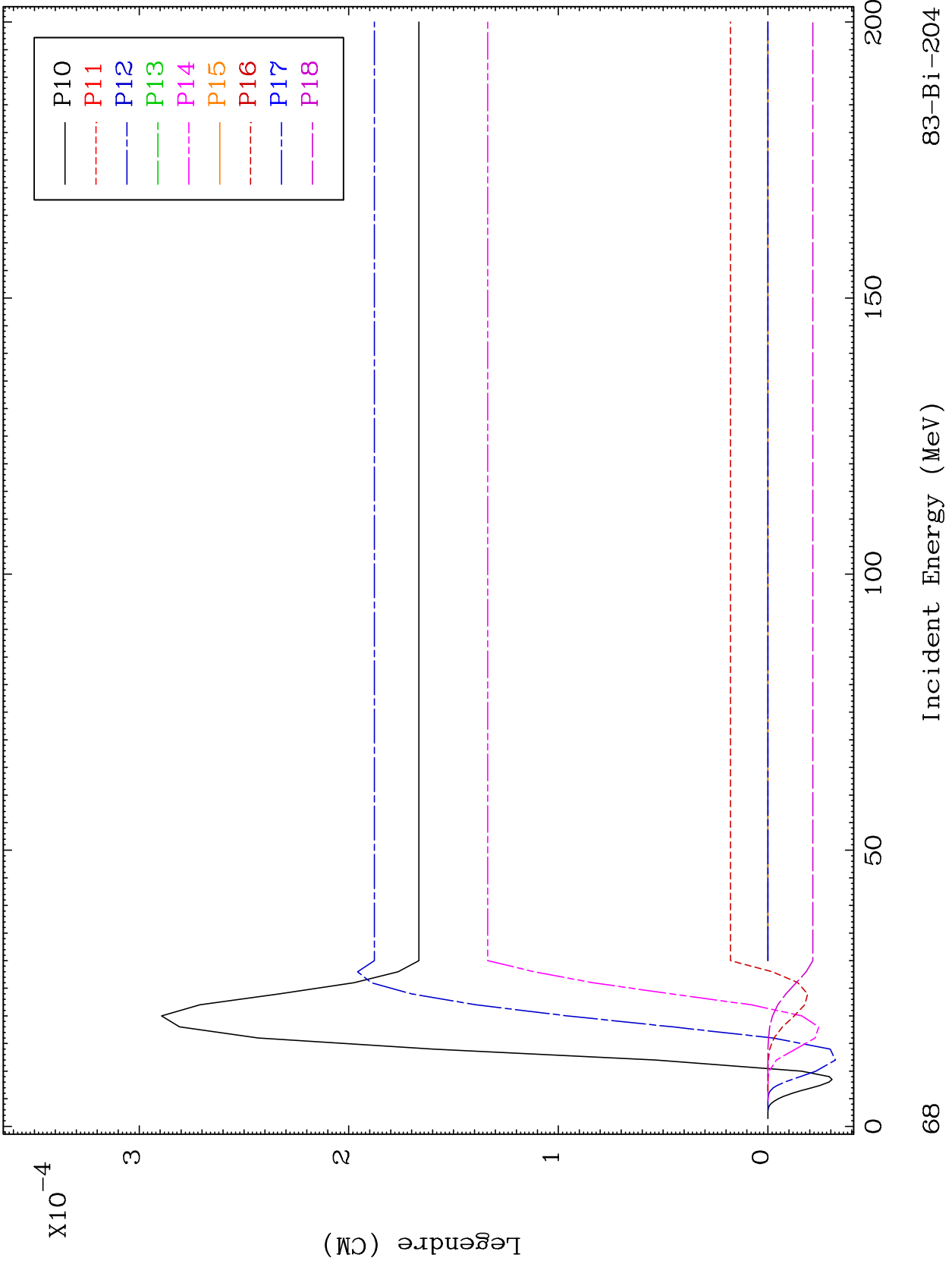




MAT 8310

1.095 MeV (n,n') Level
Legendre Coefficients

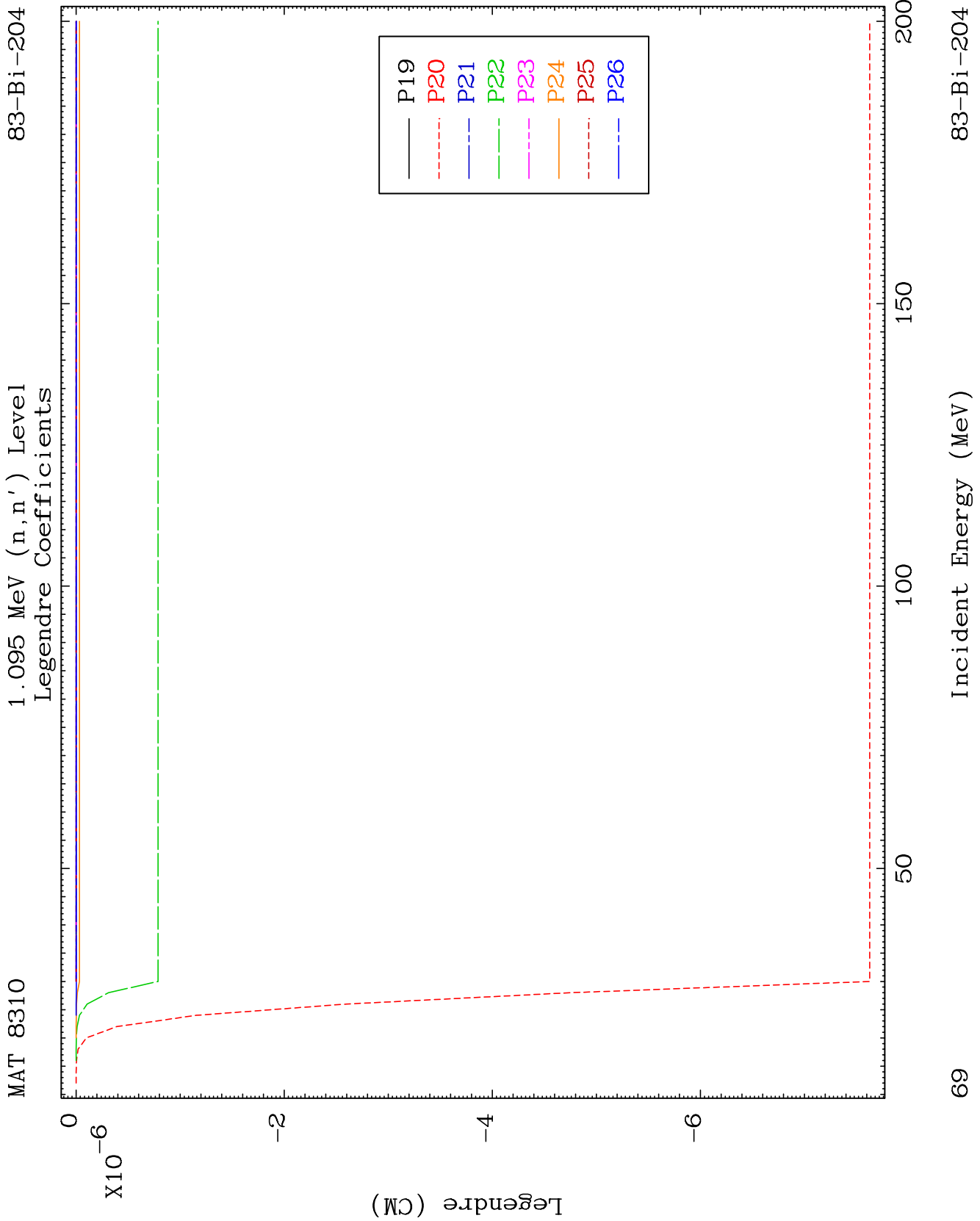
83-Bi-204



68

Incident Energy (MeV)

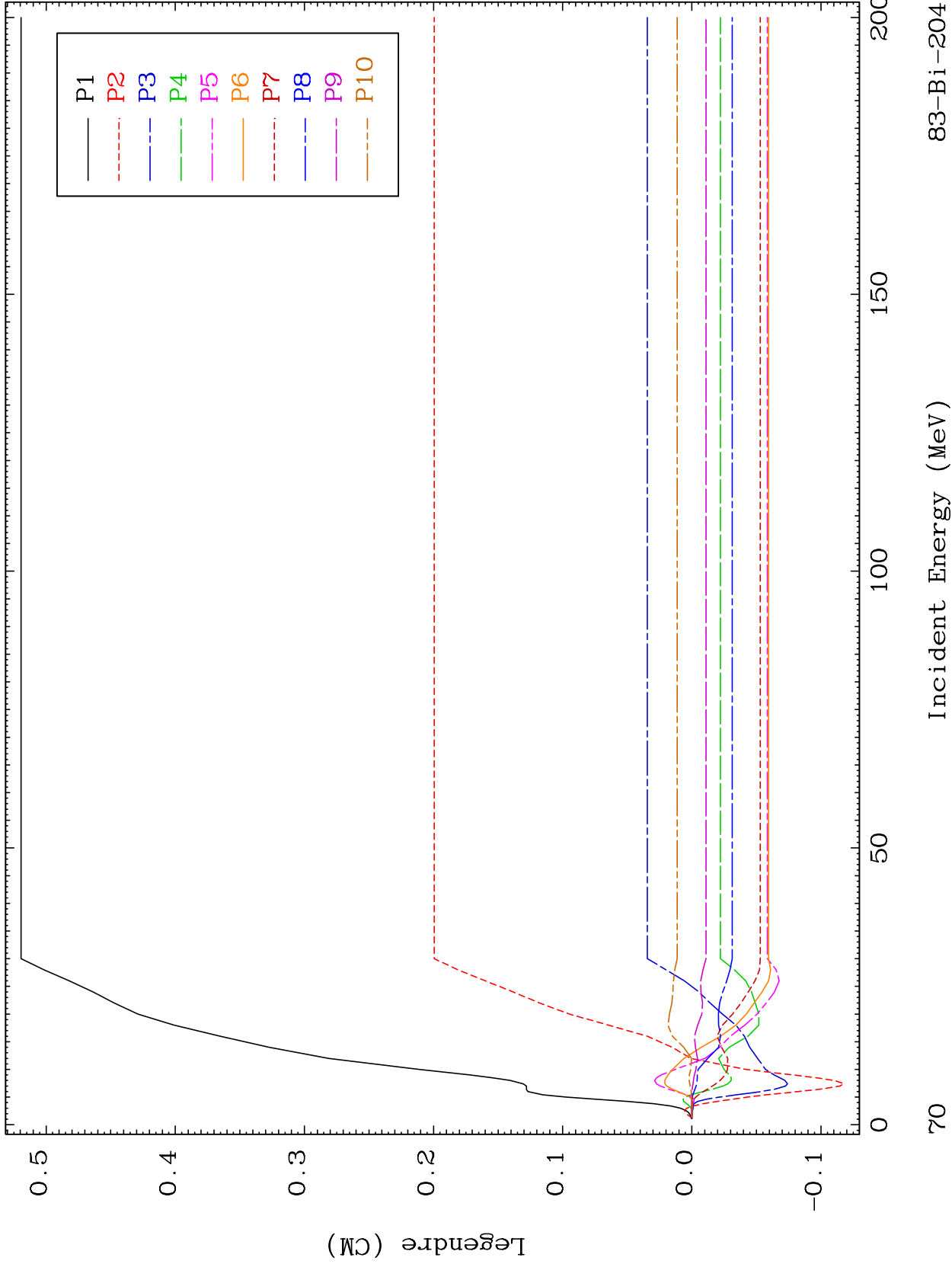
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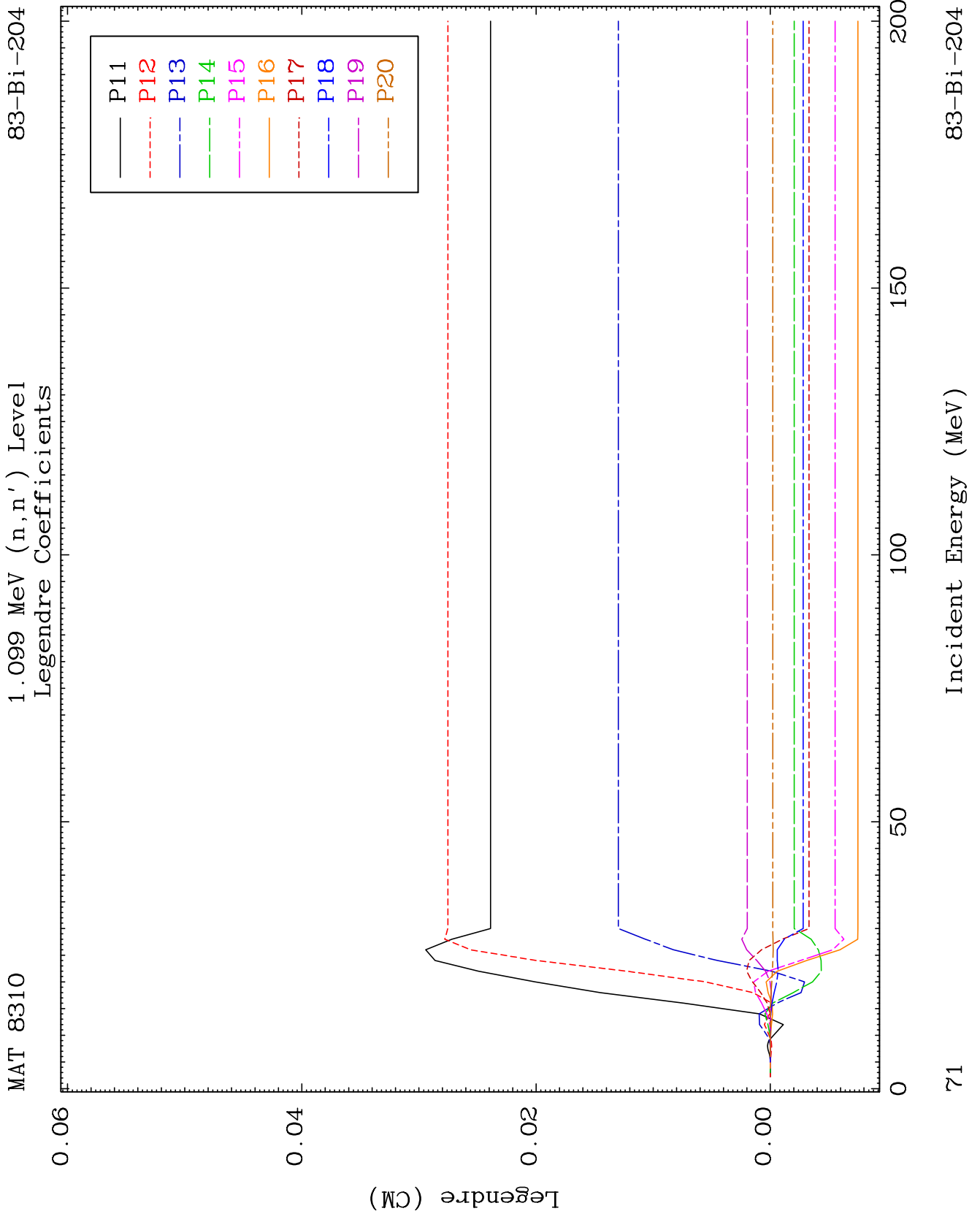
MAT 8310

1.099 MeV (n,n') Level
Legendre Coefficients

83-Bi-204



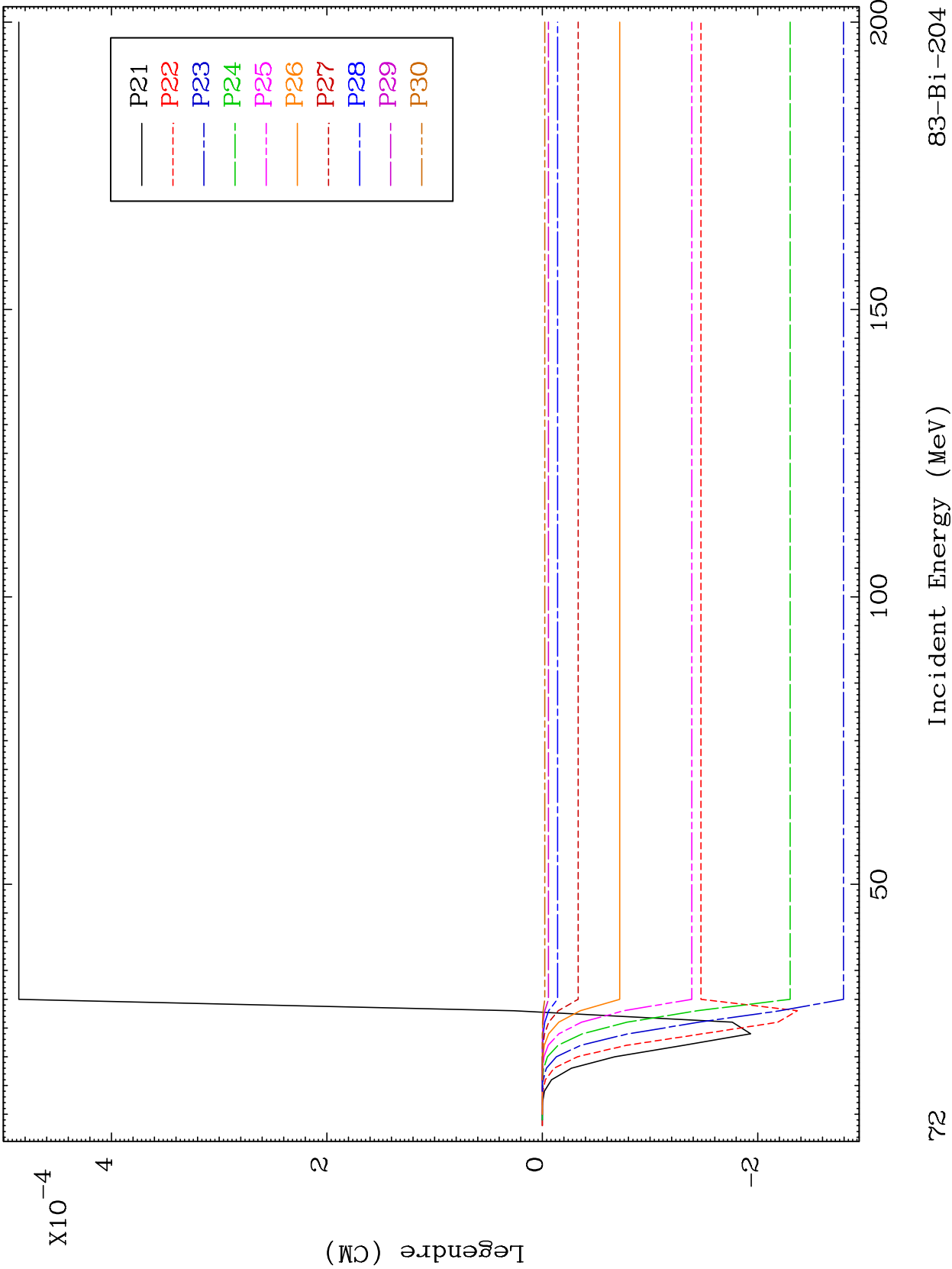
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MAT 8310

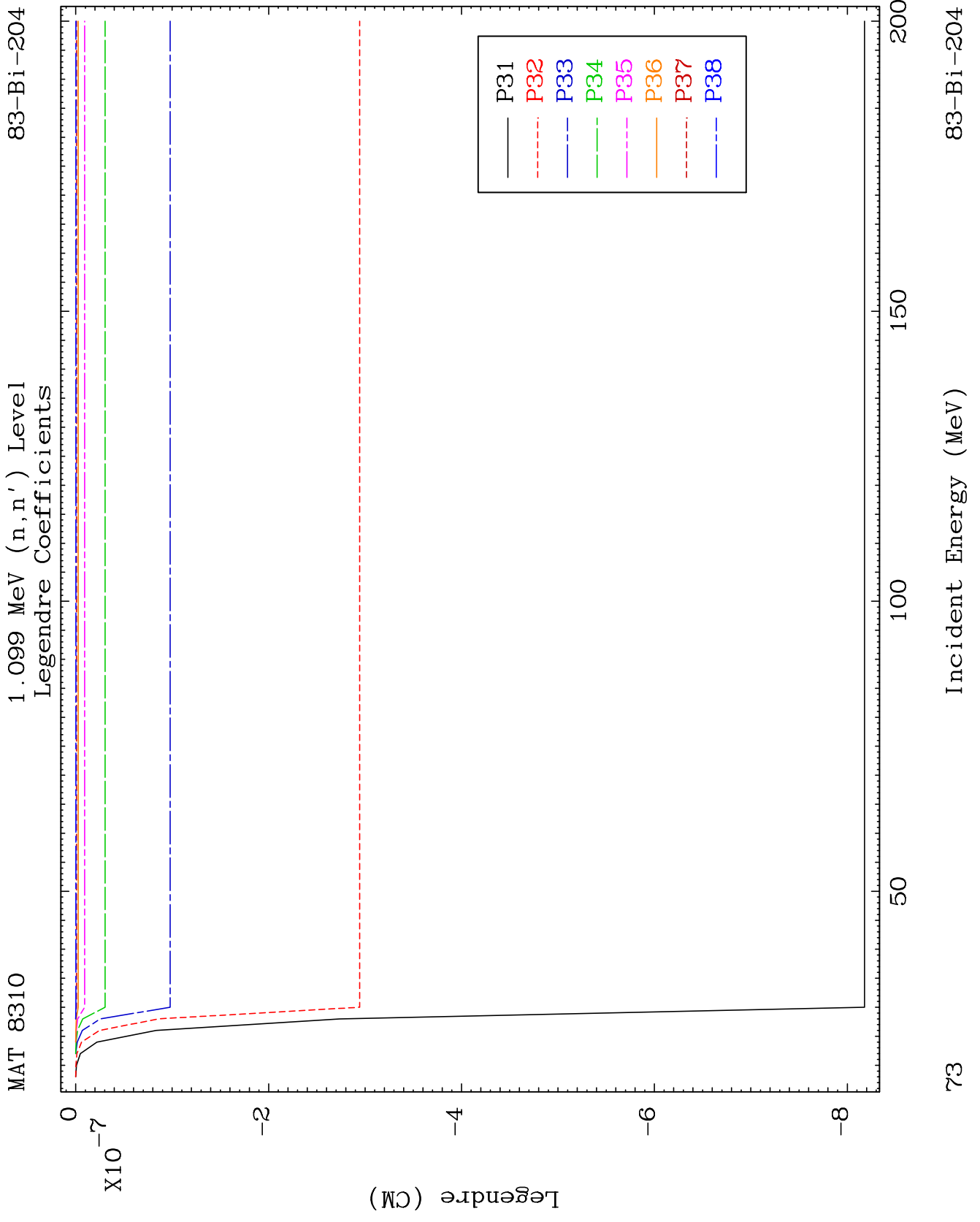
1.099 MeV (n,n') Level
Legendre Coefficients

83-Bi-204



72

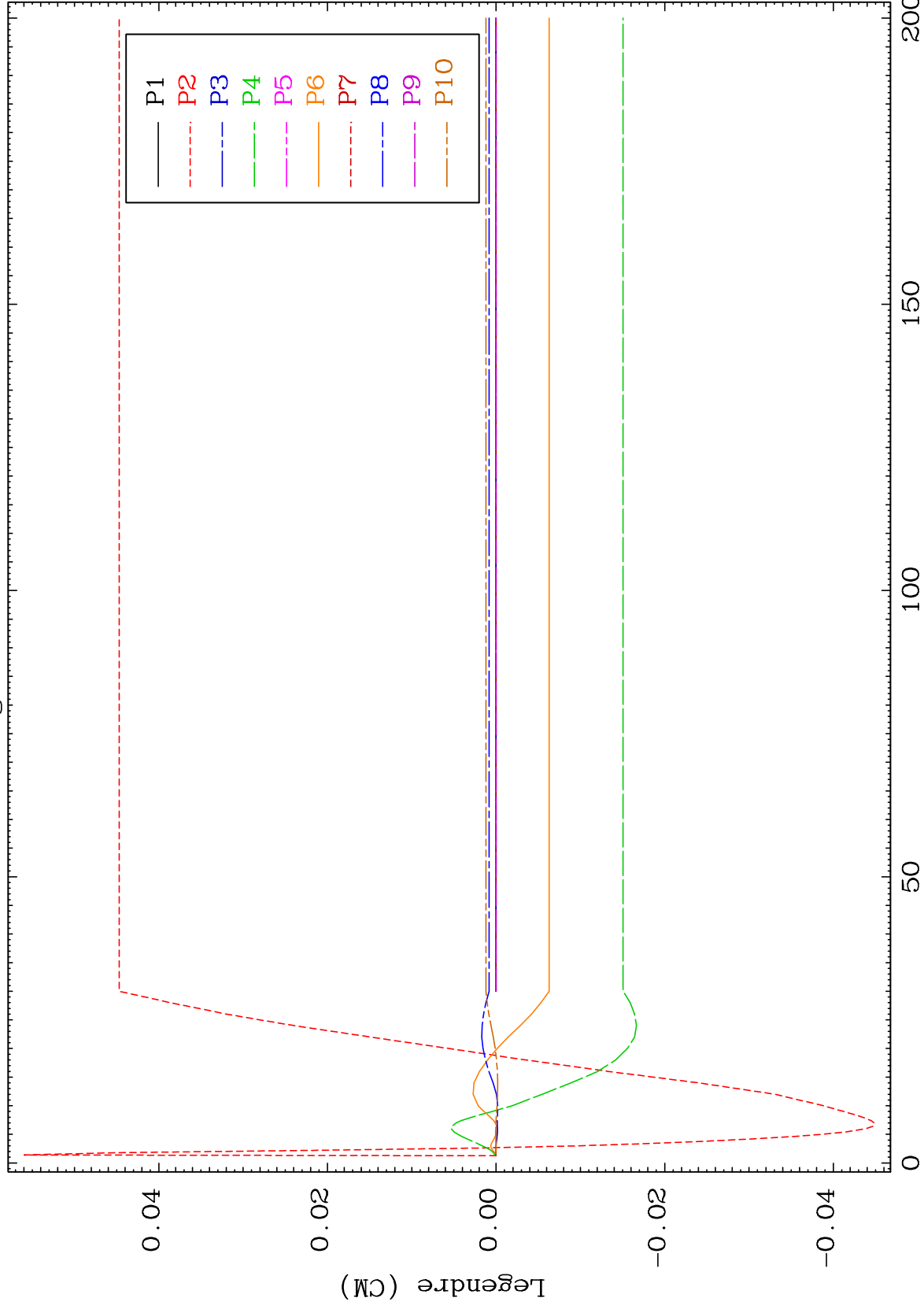
83-Bi-204



MAT 8310

1.255 MeV (n,n') Level
Legendre Coefficients

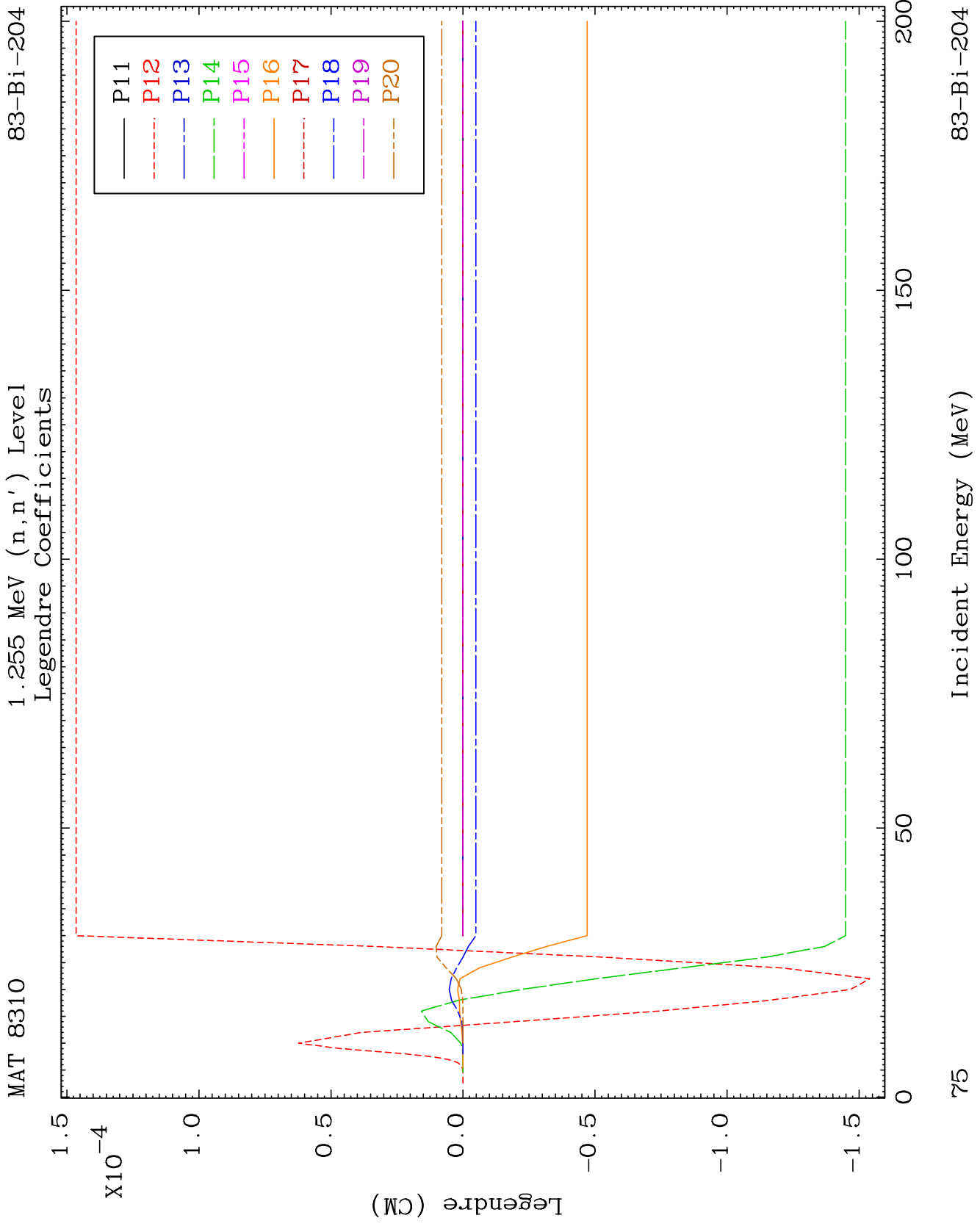
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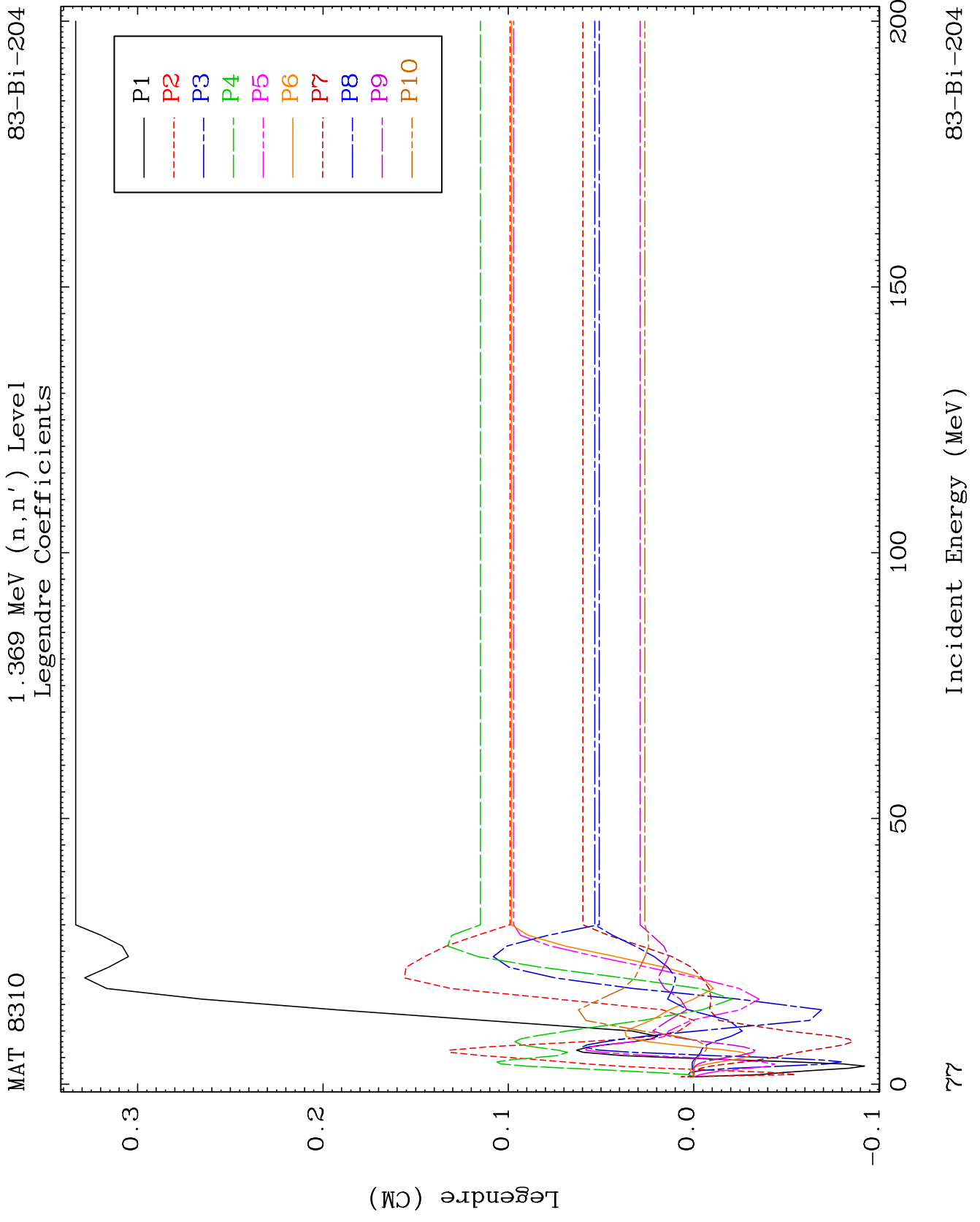


83-Bi-204

Incident Energy (MeV)

74

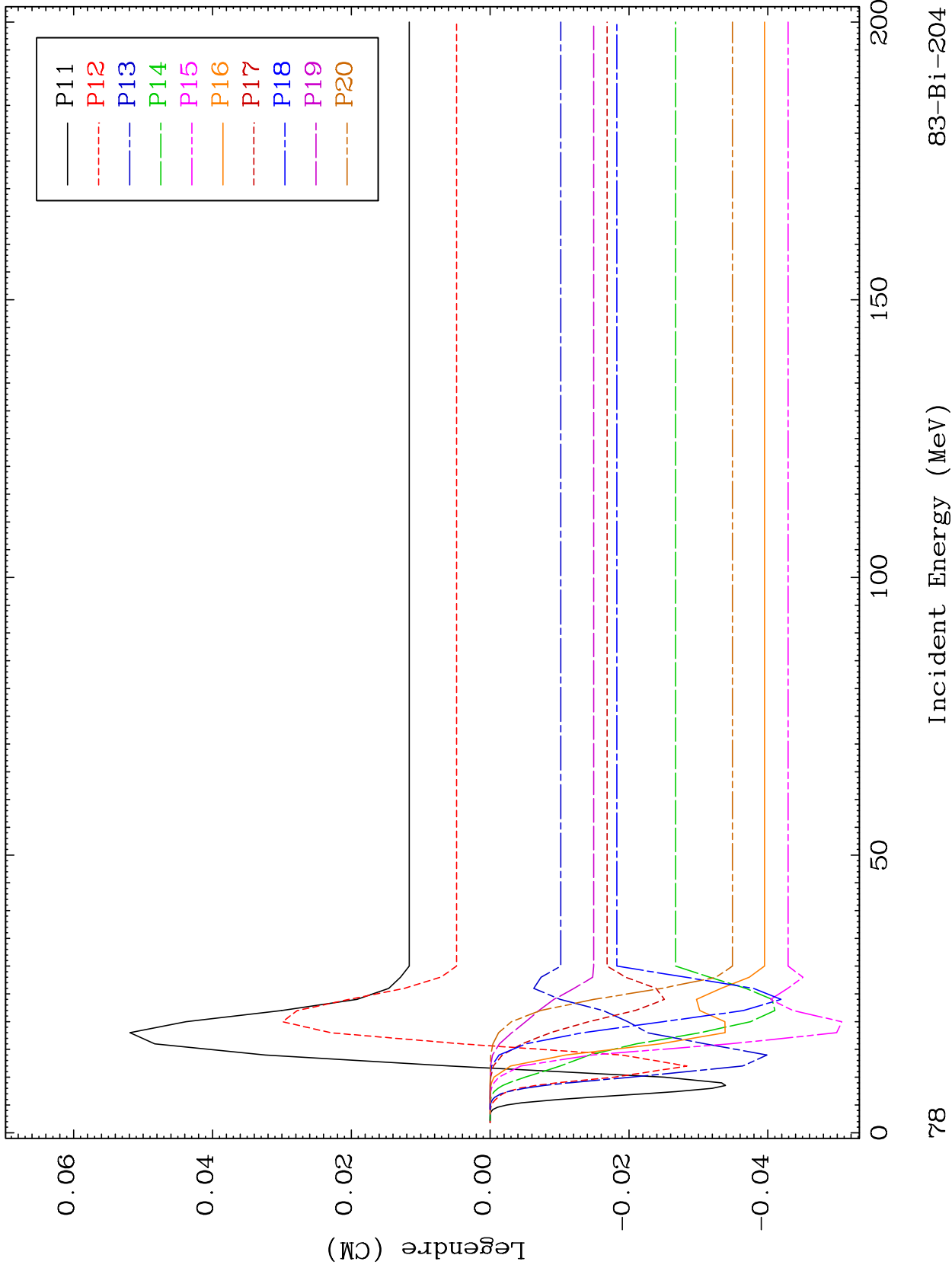




MAT 8310

1.369 MeV (n,n') Level
Legendre Coefficients

83-Bi-204



78

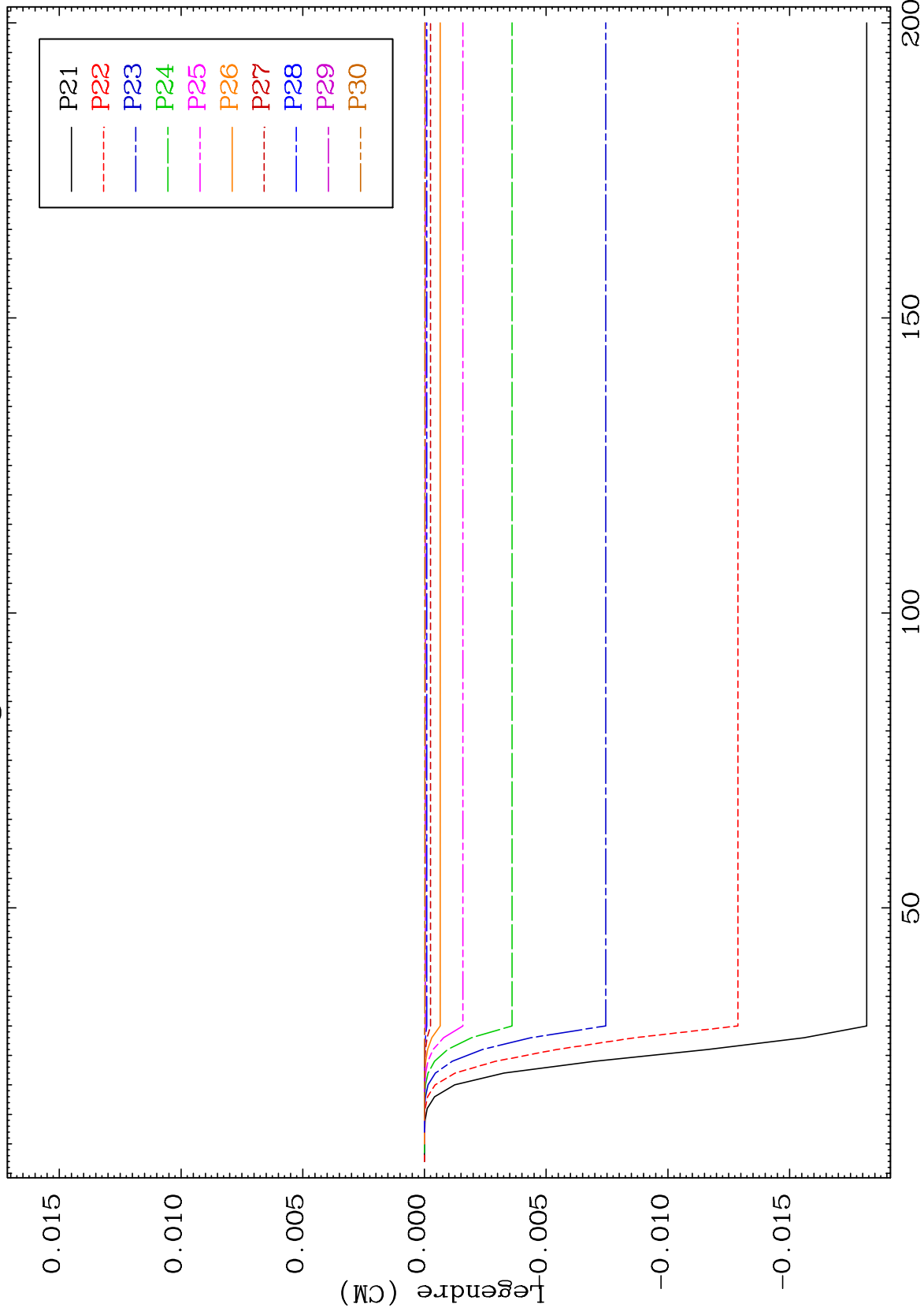
Incident Energy (MeV)

83-Bi-204

MAT 8310

1.369 MeV (n,n') Level
Legendre Coefficients

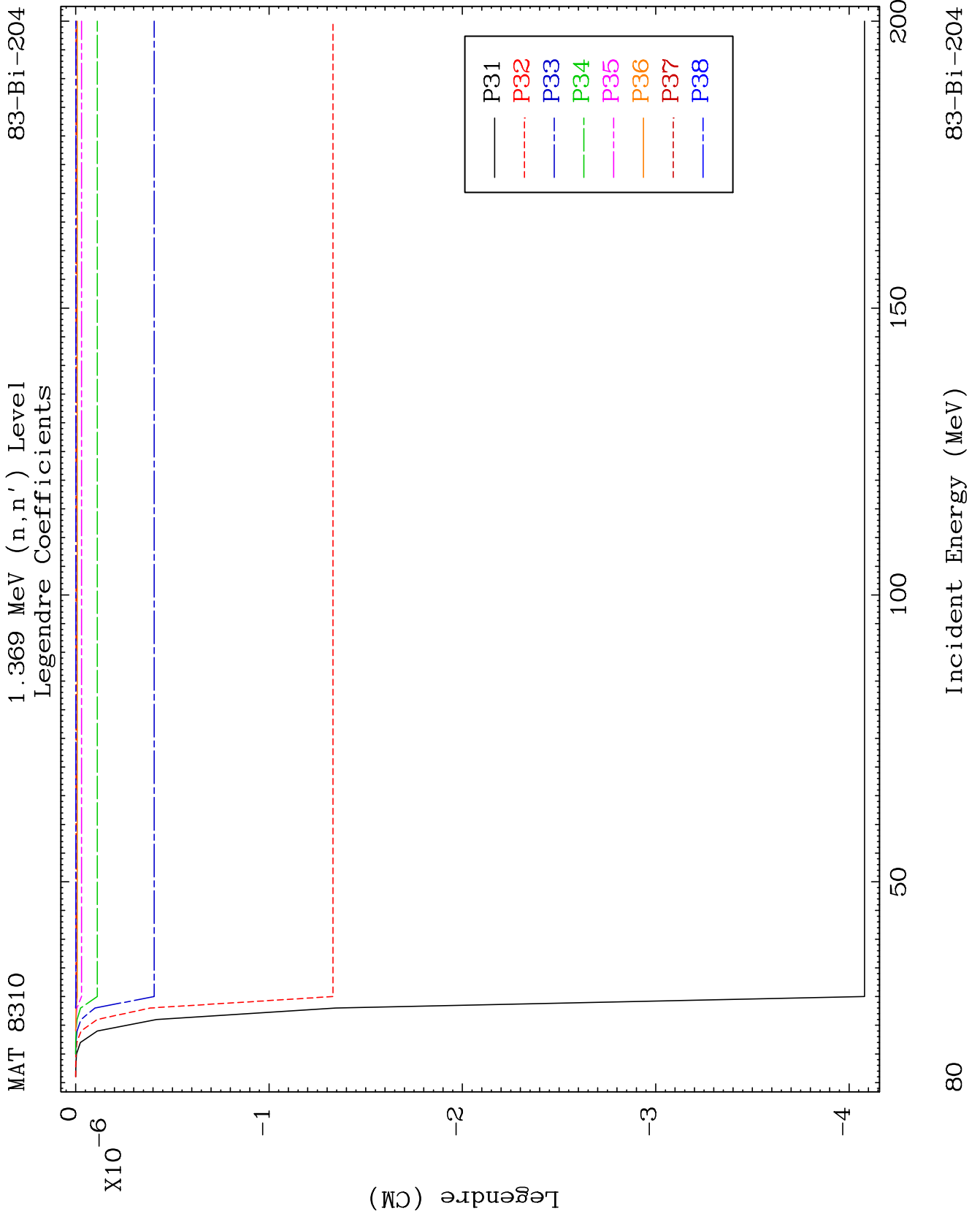
83-Bi-204

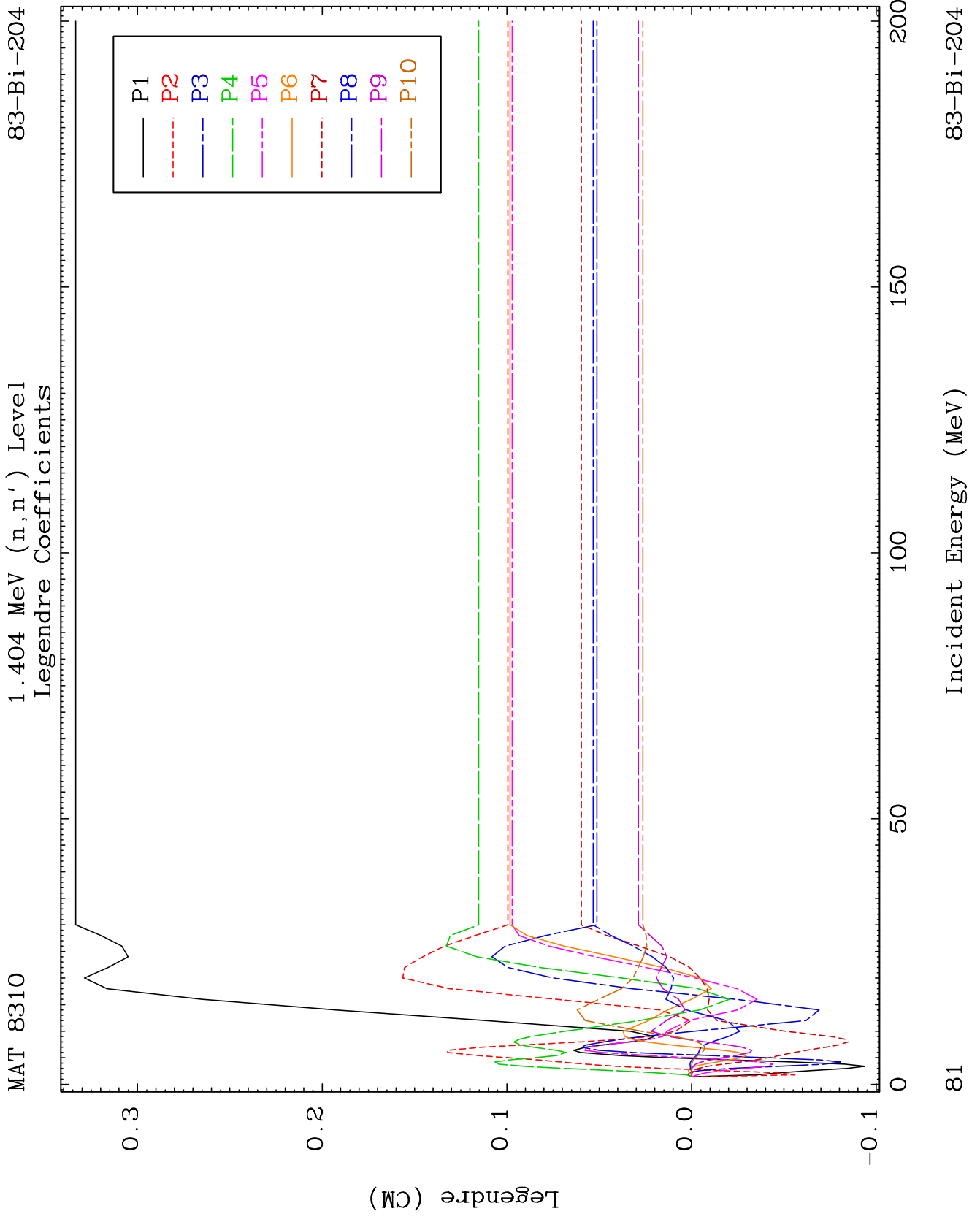


79

Incident Energy (MeV)

83-Bi-204

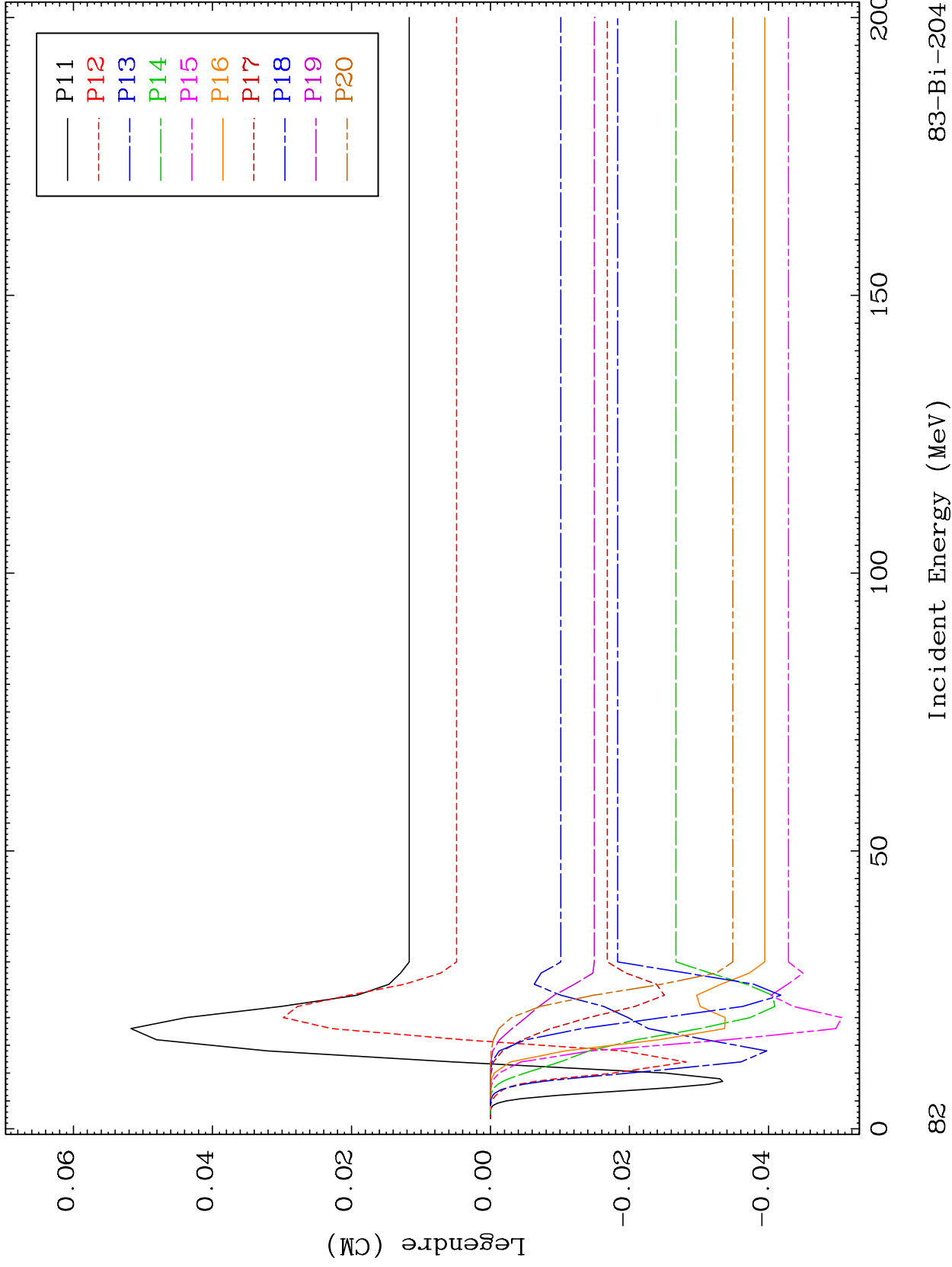




MAT 8310

1.404 MeV (n,n') Level
Legendre Coefficients

83-Bi-204



83-Bi-204

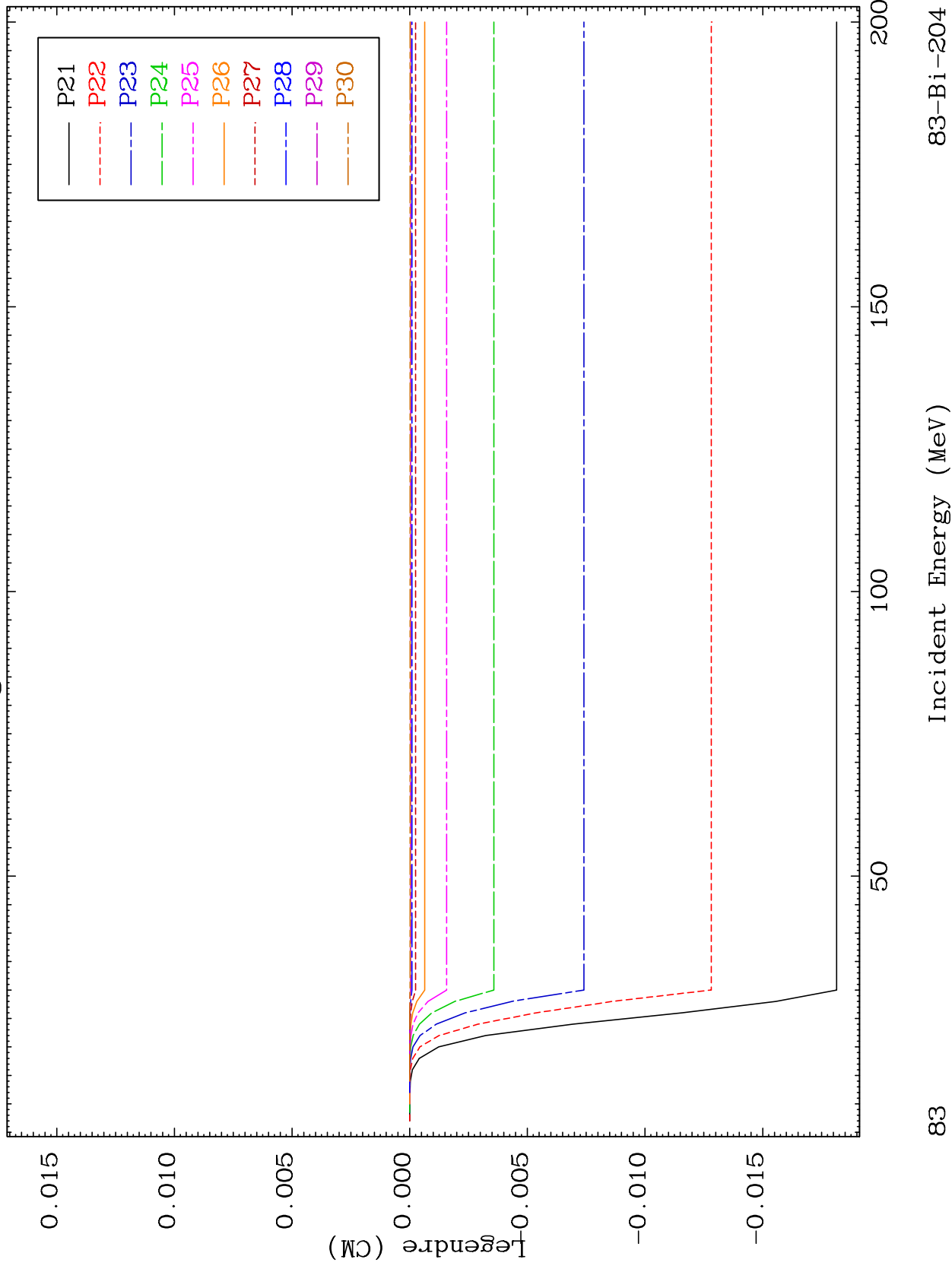
Incident Energy (MeV)

82

MAT 8310

1.404 MeV (n,n') Level
Legendre Coefficients

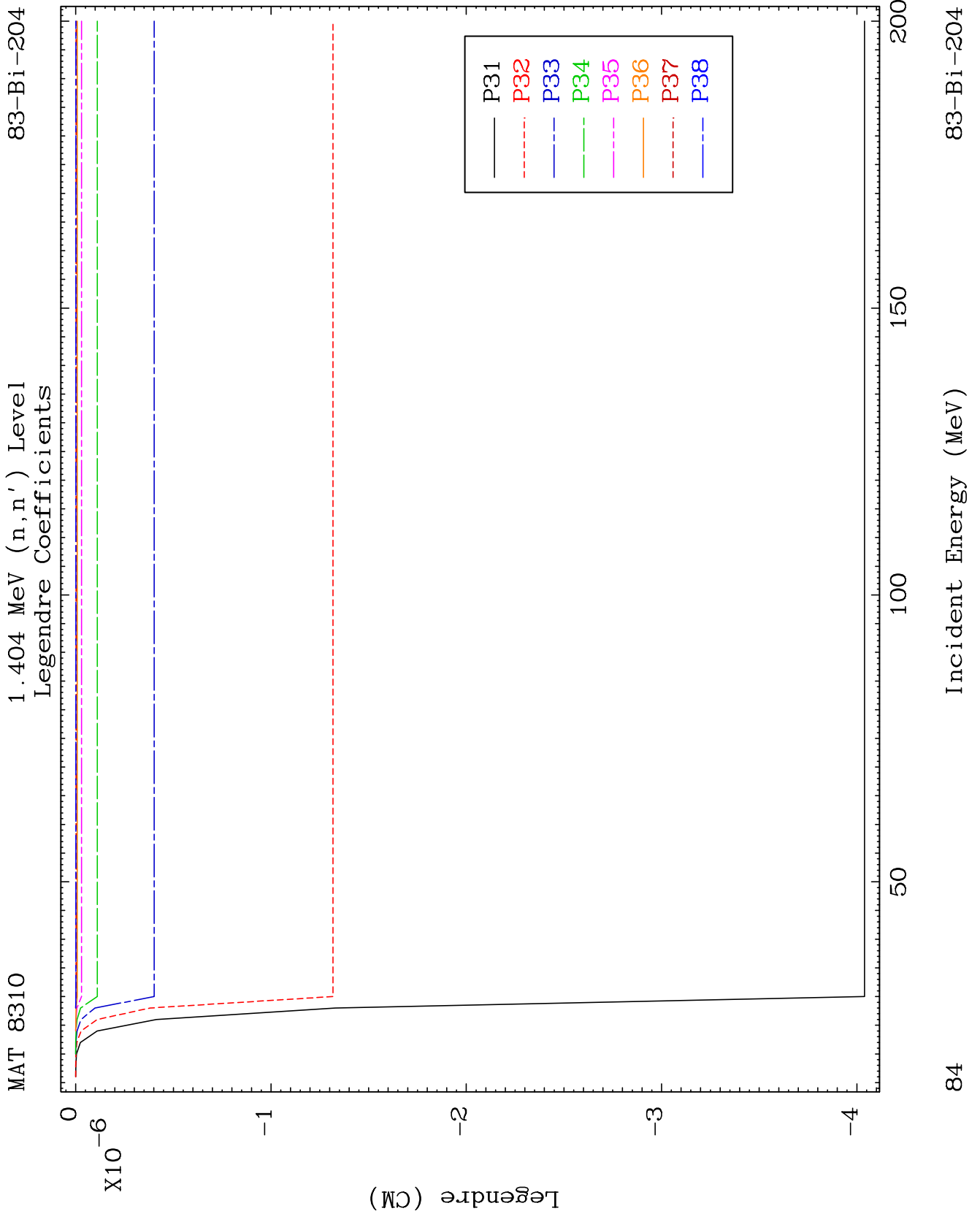
83-Bi-204

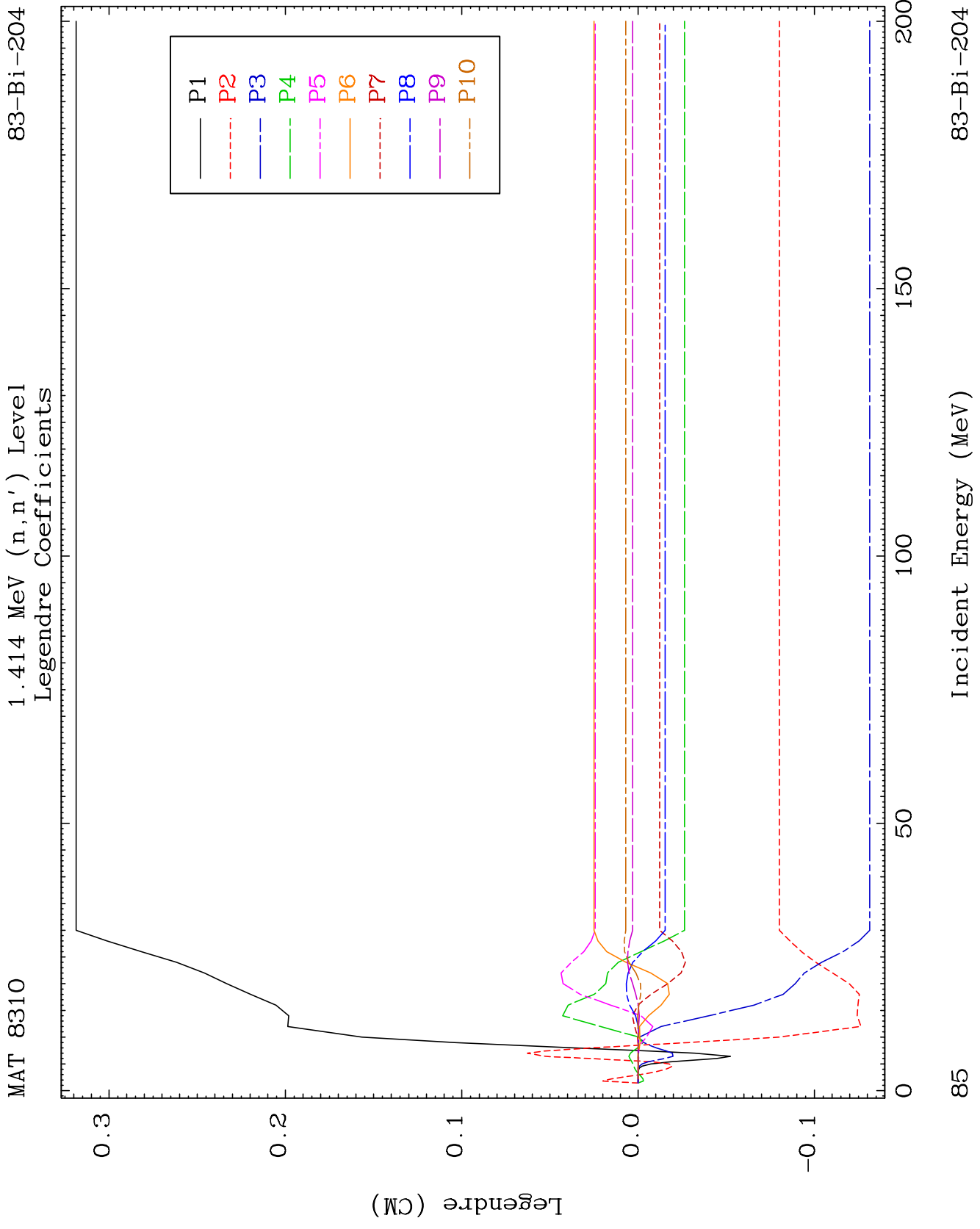


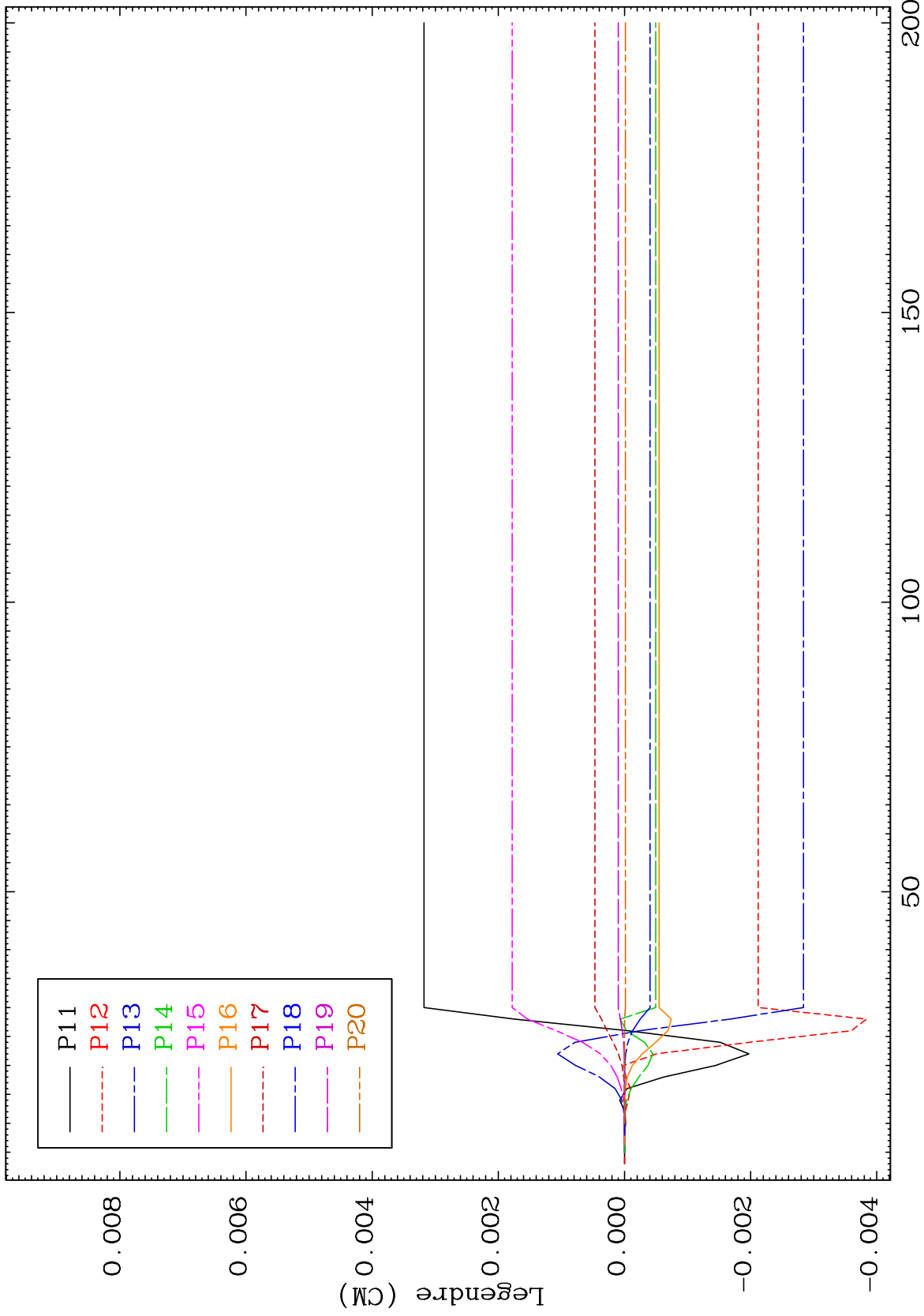
83

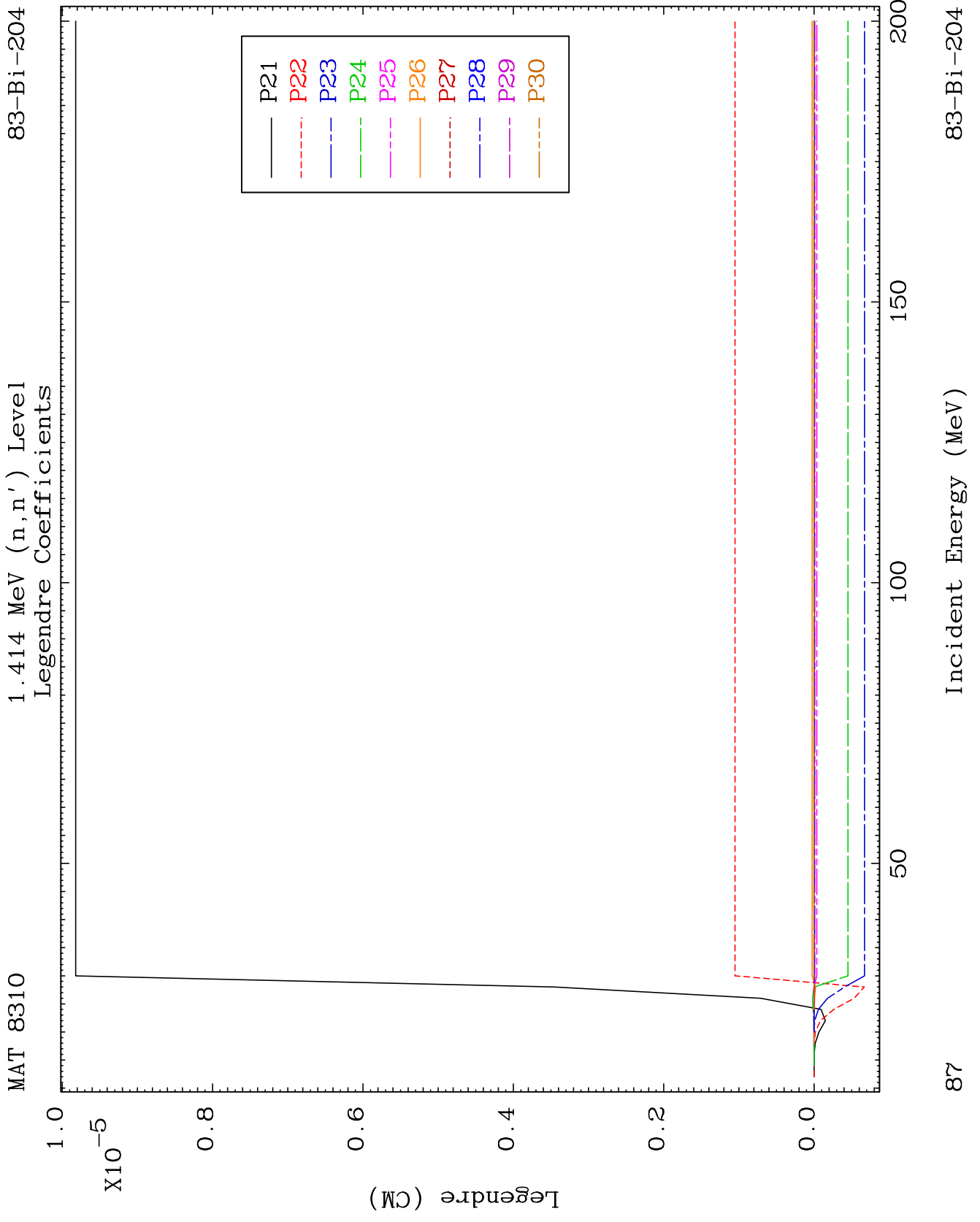
Incident Energy (MeV)

83-Bi-204





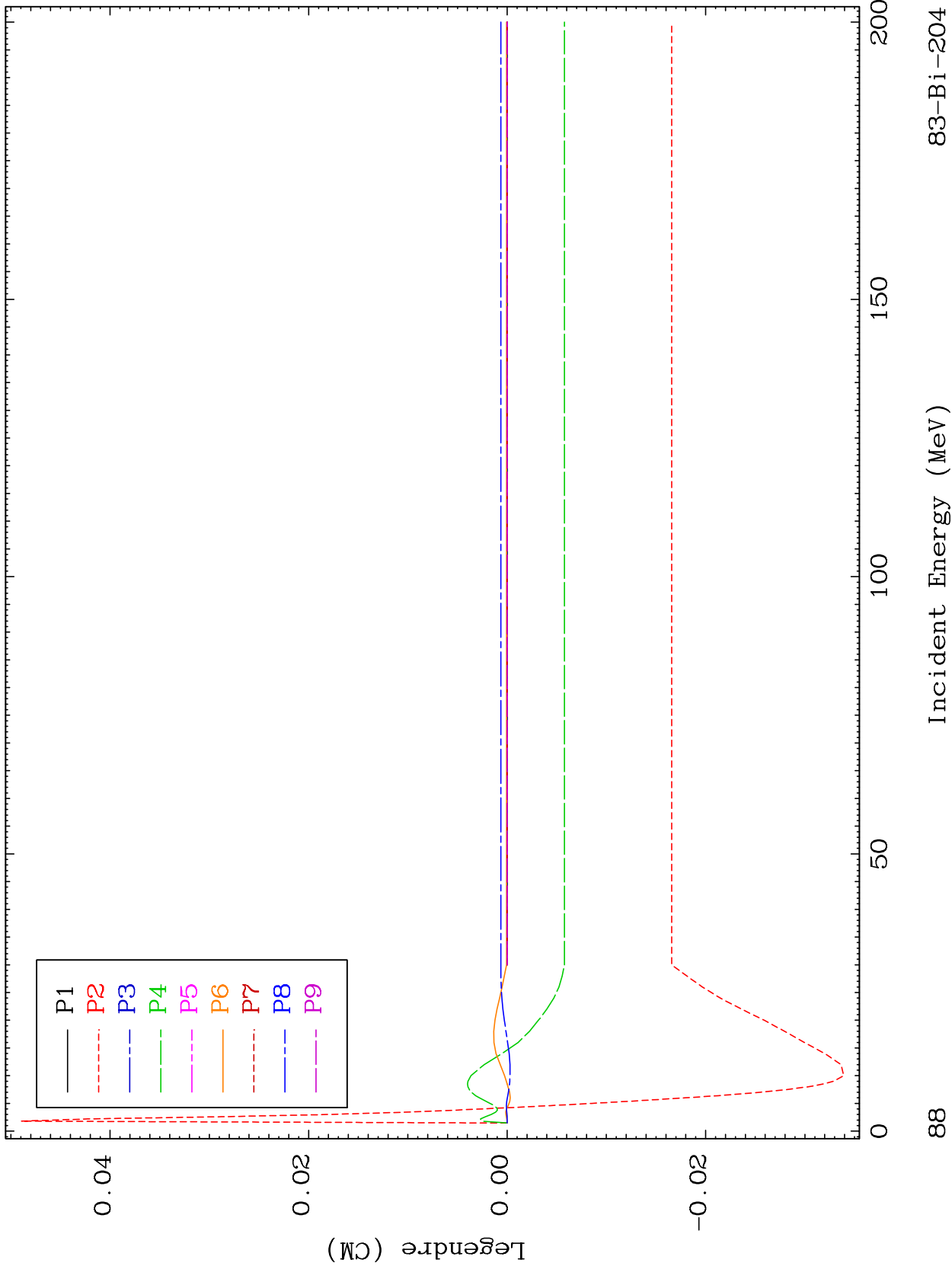




MAT 8310

1.455 MeV (n,n') Level
Legendre Coefficients

83-Bi-204

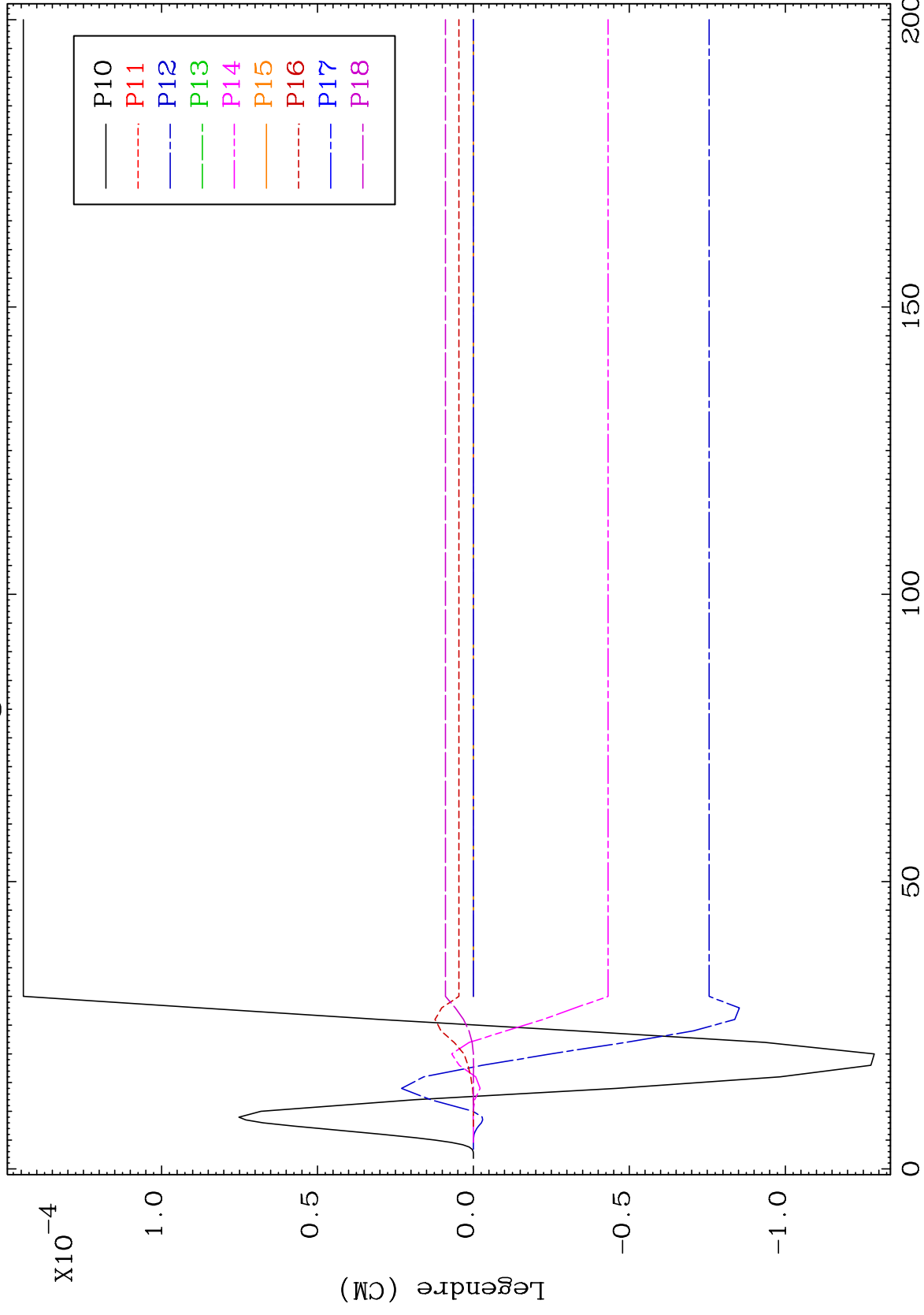


88

MAT 8310

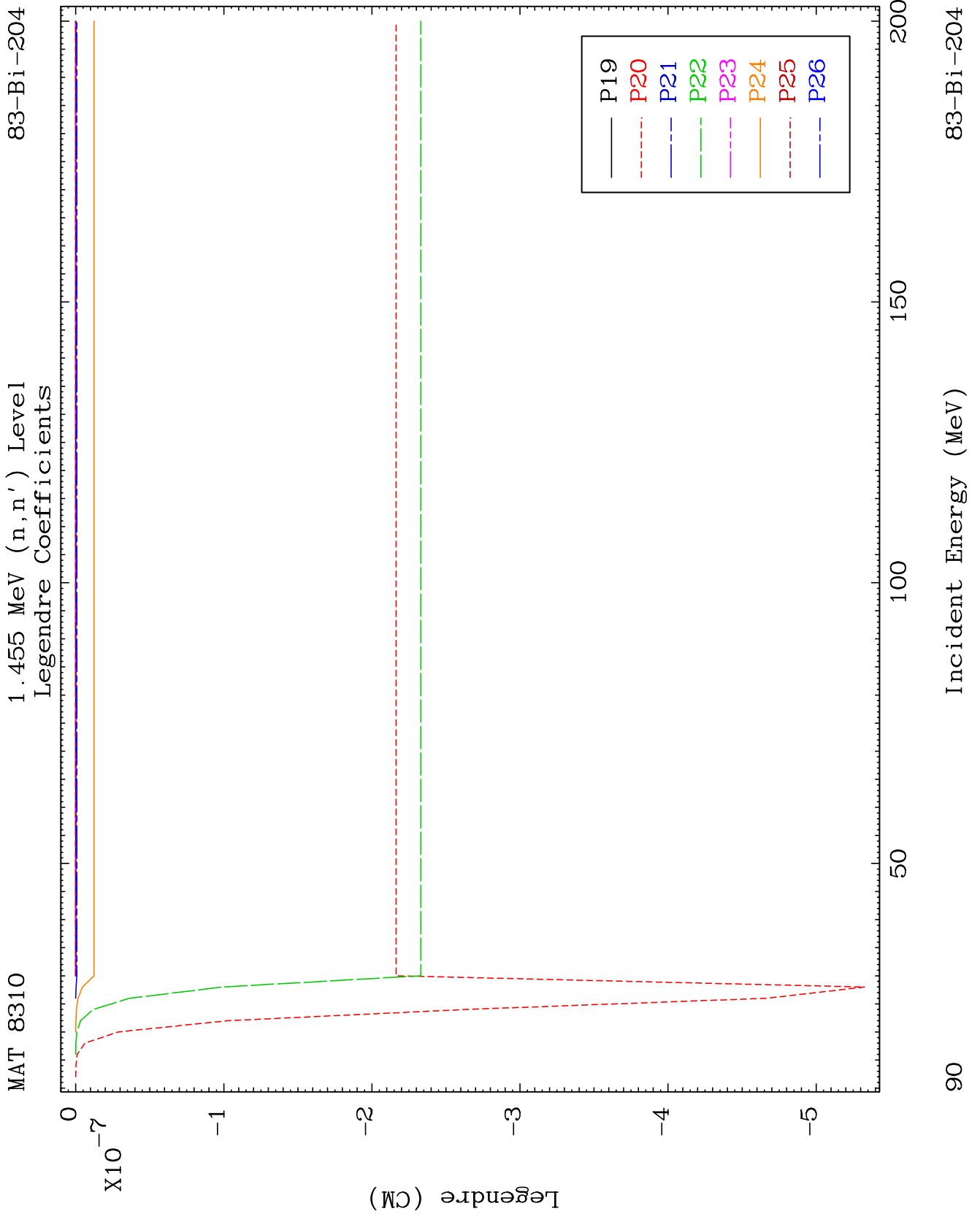
1.455 MeV (n,n') Level
Legendre Coefficients

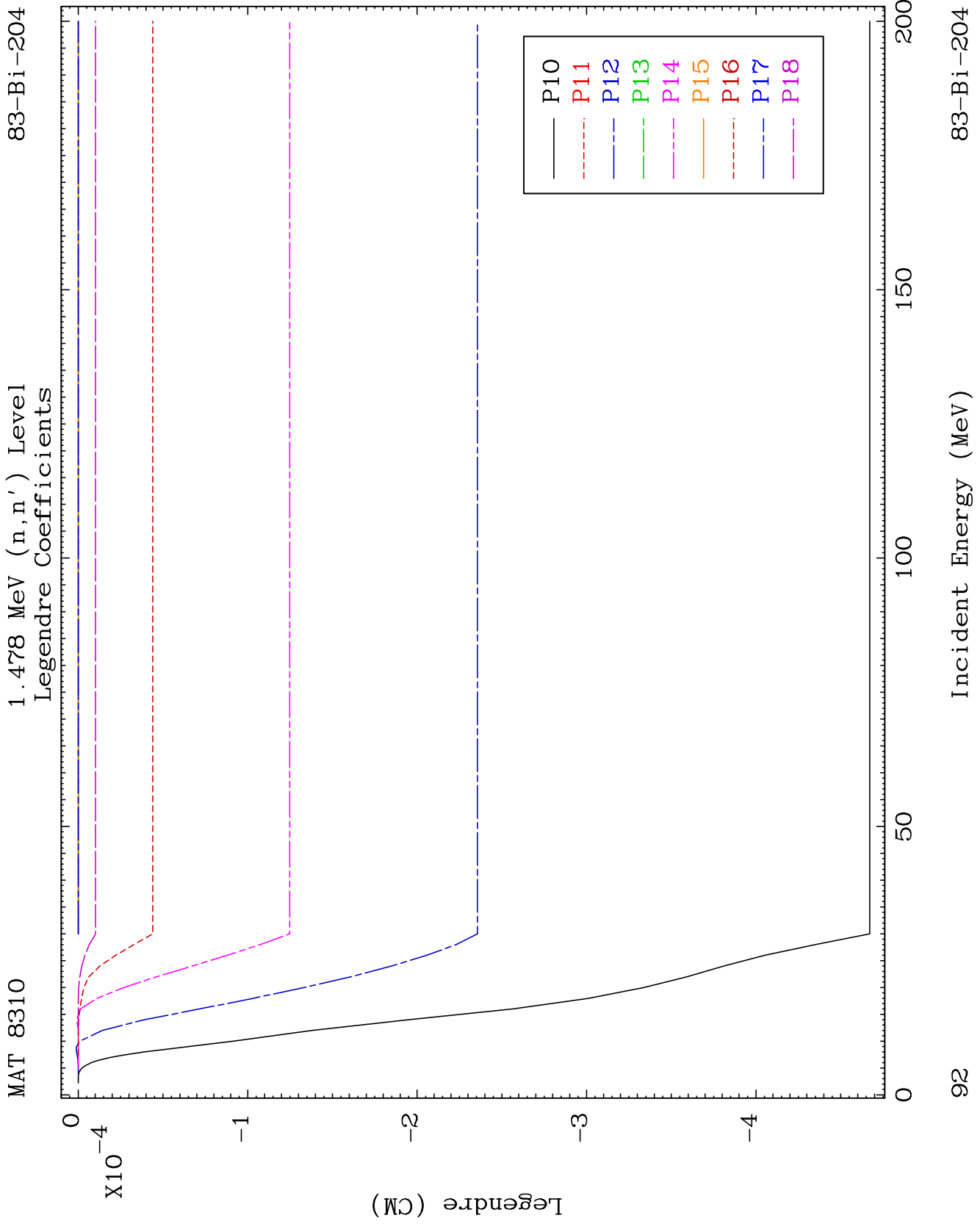
83-Bi-204



89

83-Bi-204

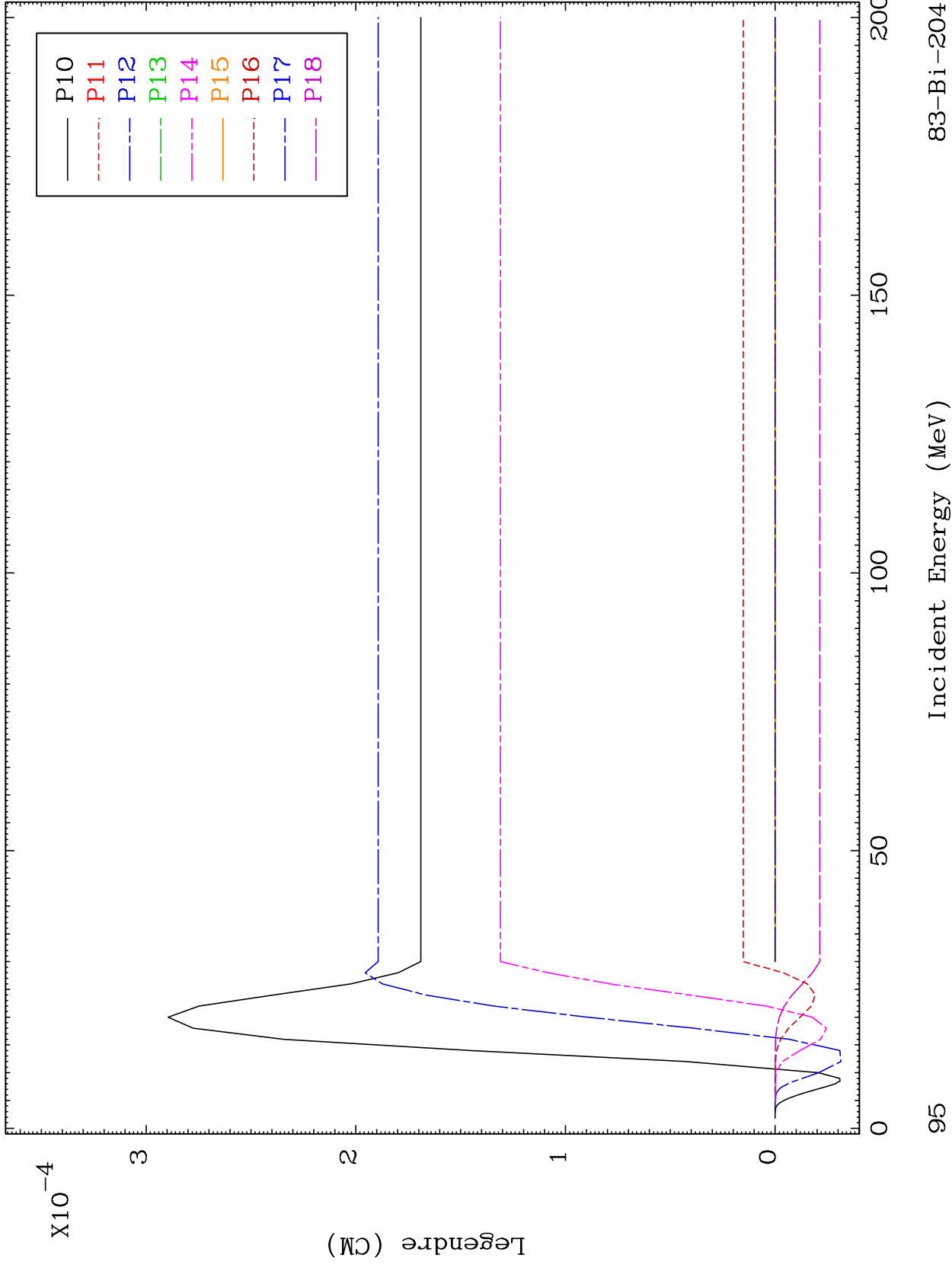


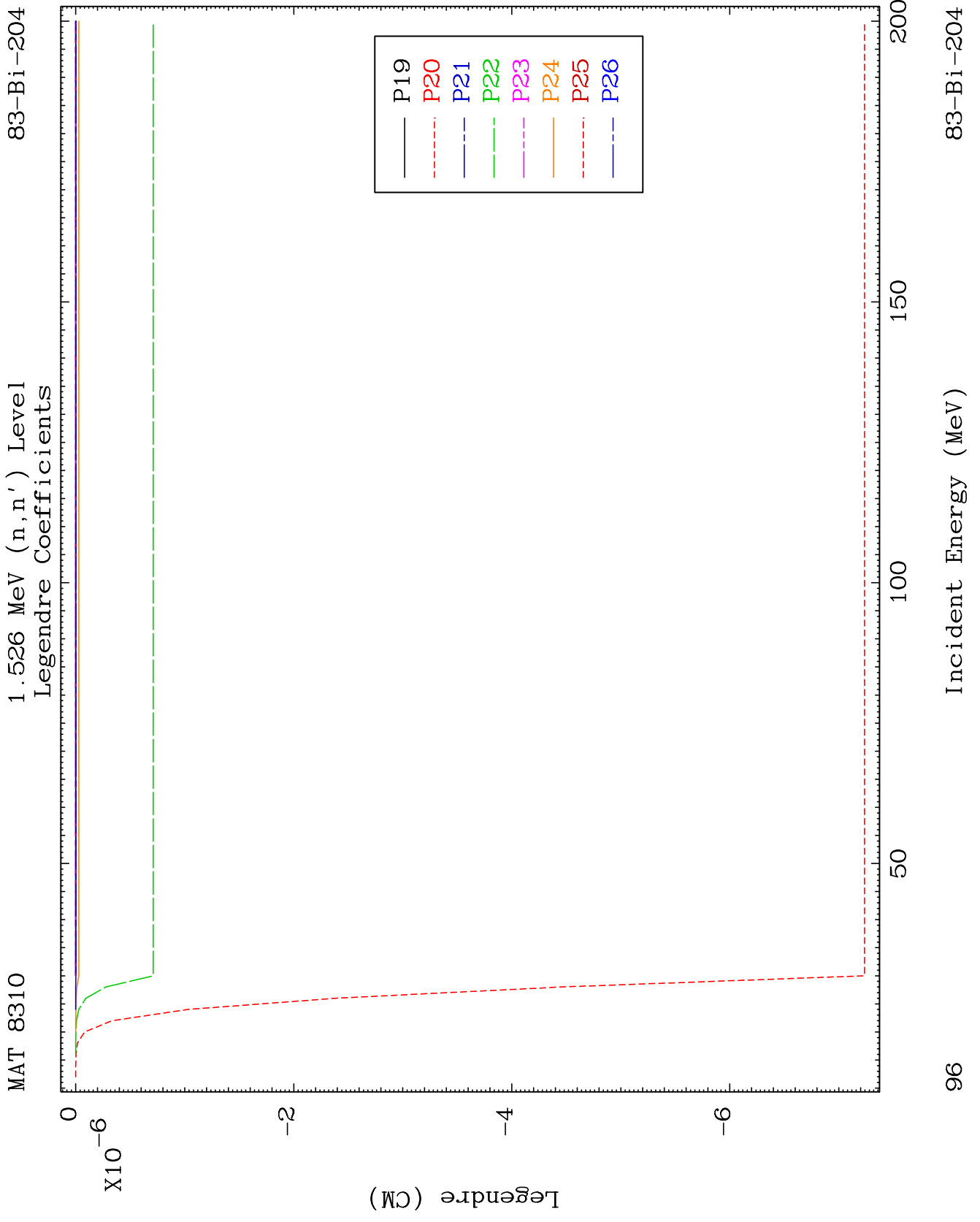


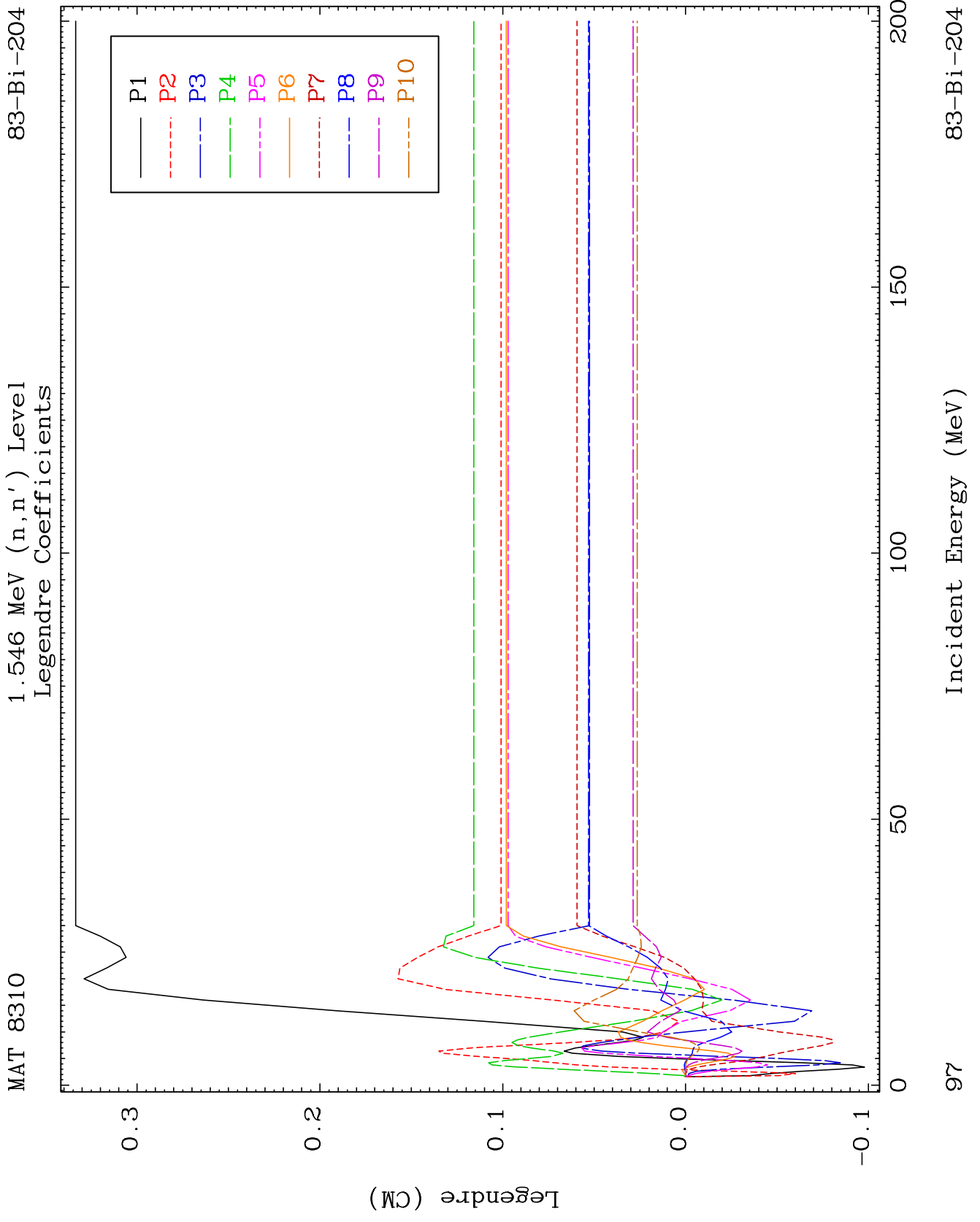
MAT 8310

1.526 MeV (n,n') Level
Legendre Coefficients

83-Bi-204



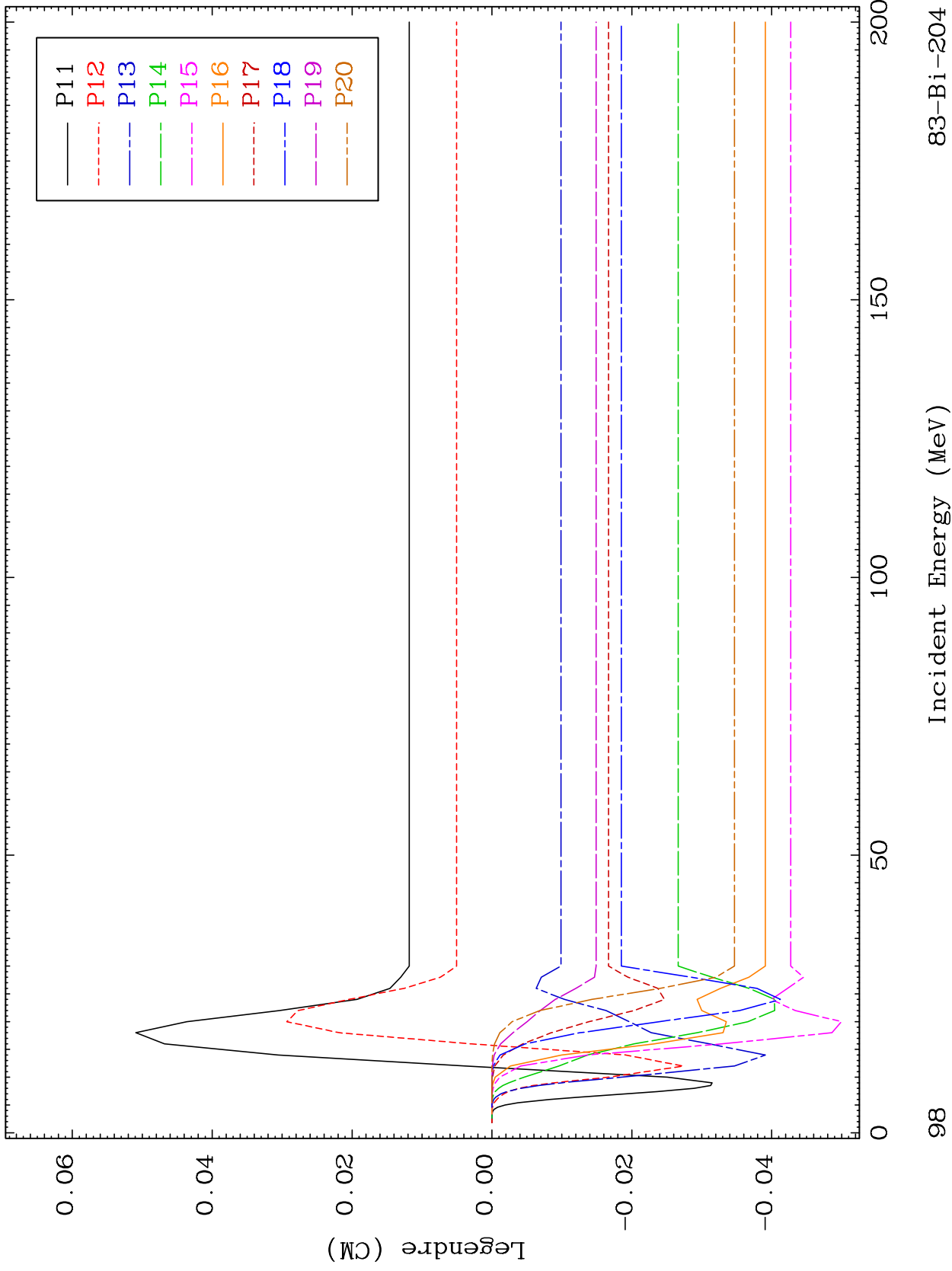




MAT 8310

1.546 MeV (n,n') Level
Legendre Coefficients

83-Bi-204



83-Bi-204

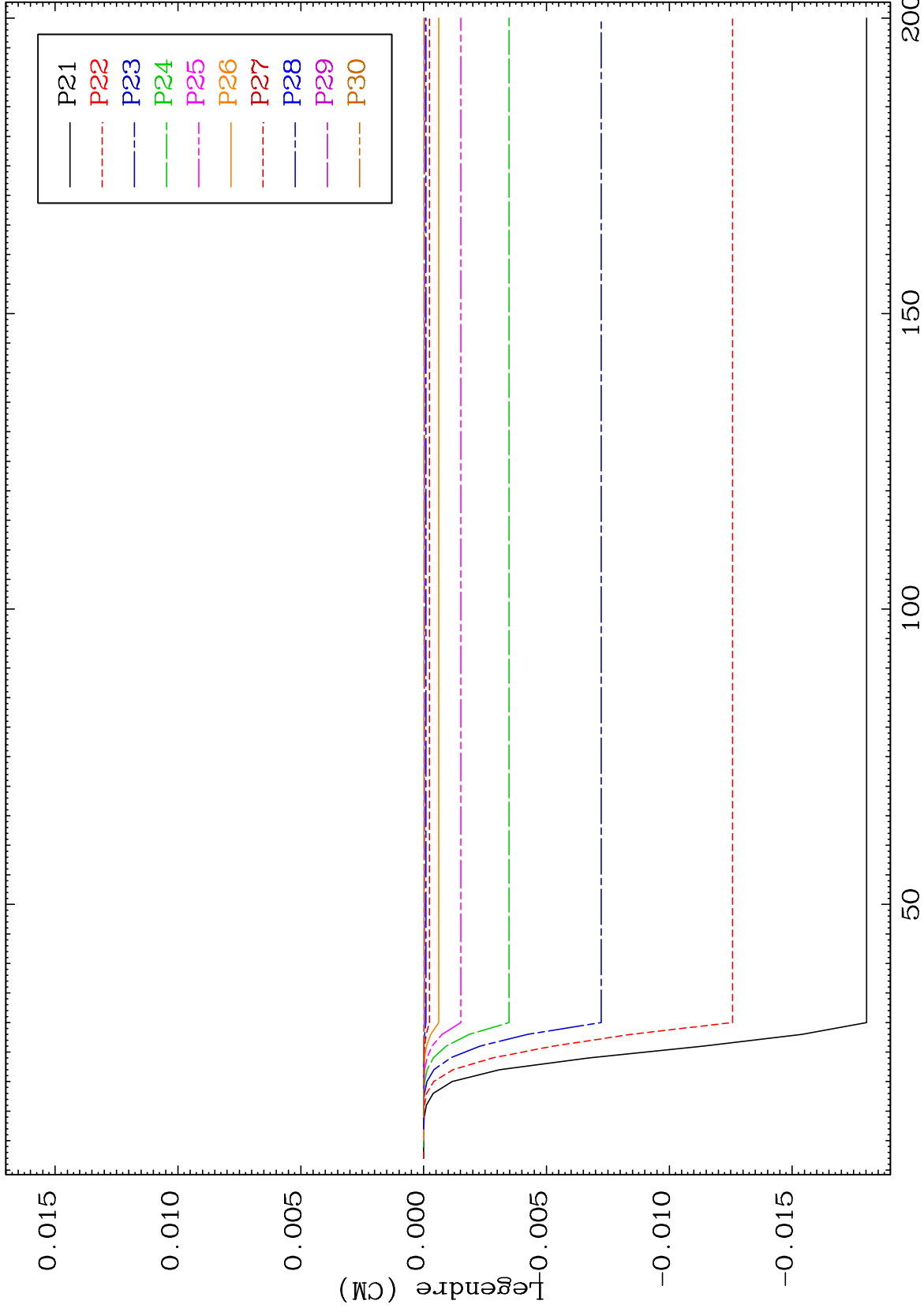
Incident Energy (MeV)

98

MAT 8310

1.546 MeV (n,n') Level
Legendre Coefficients

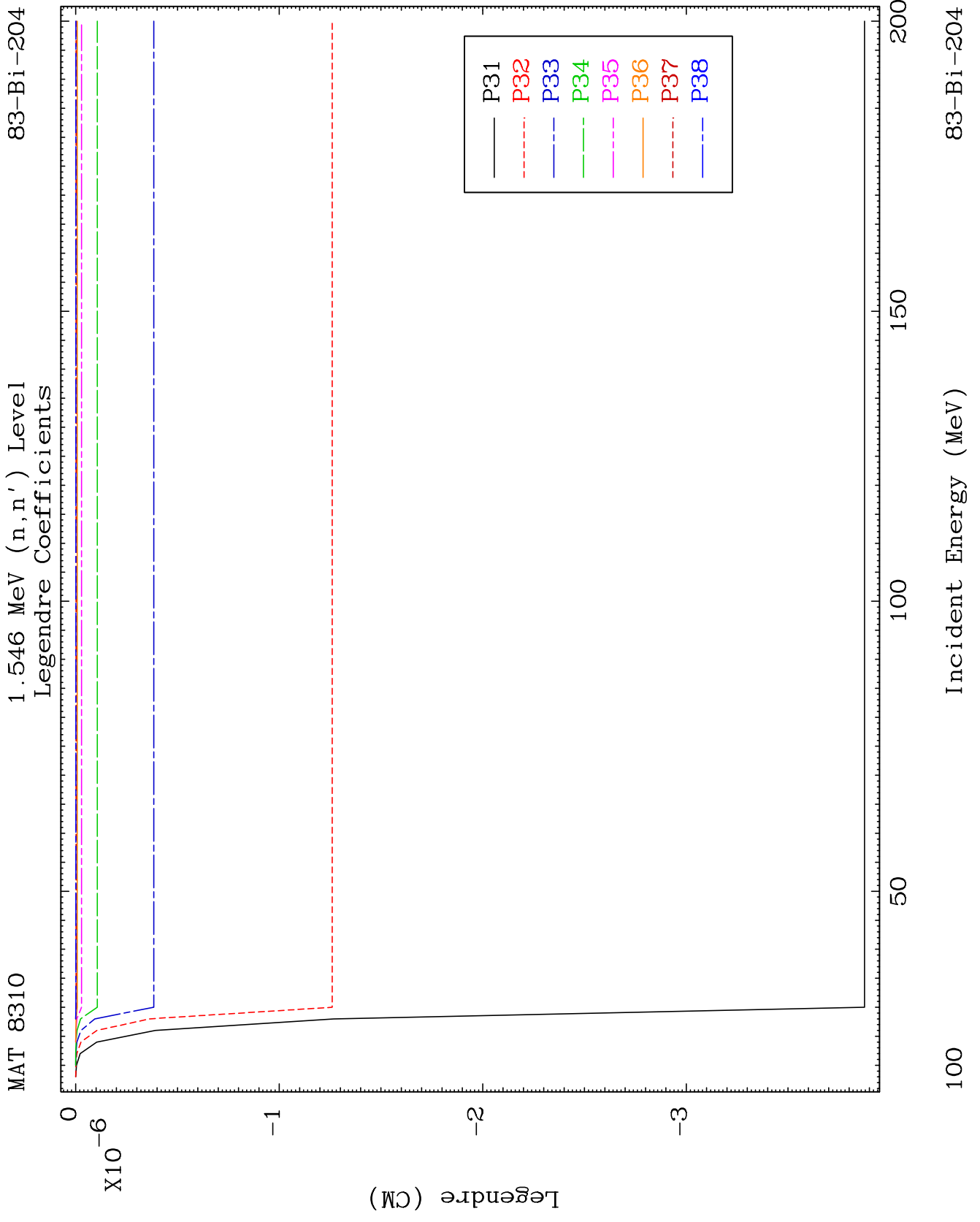
83-Bi-204

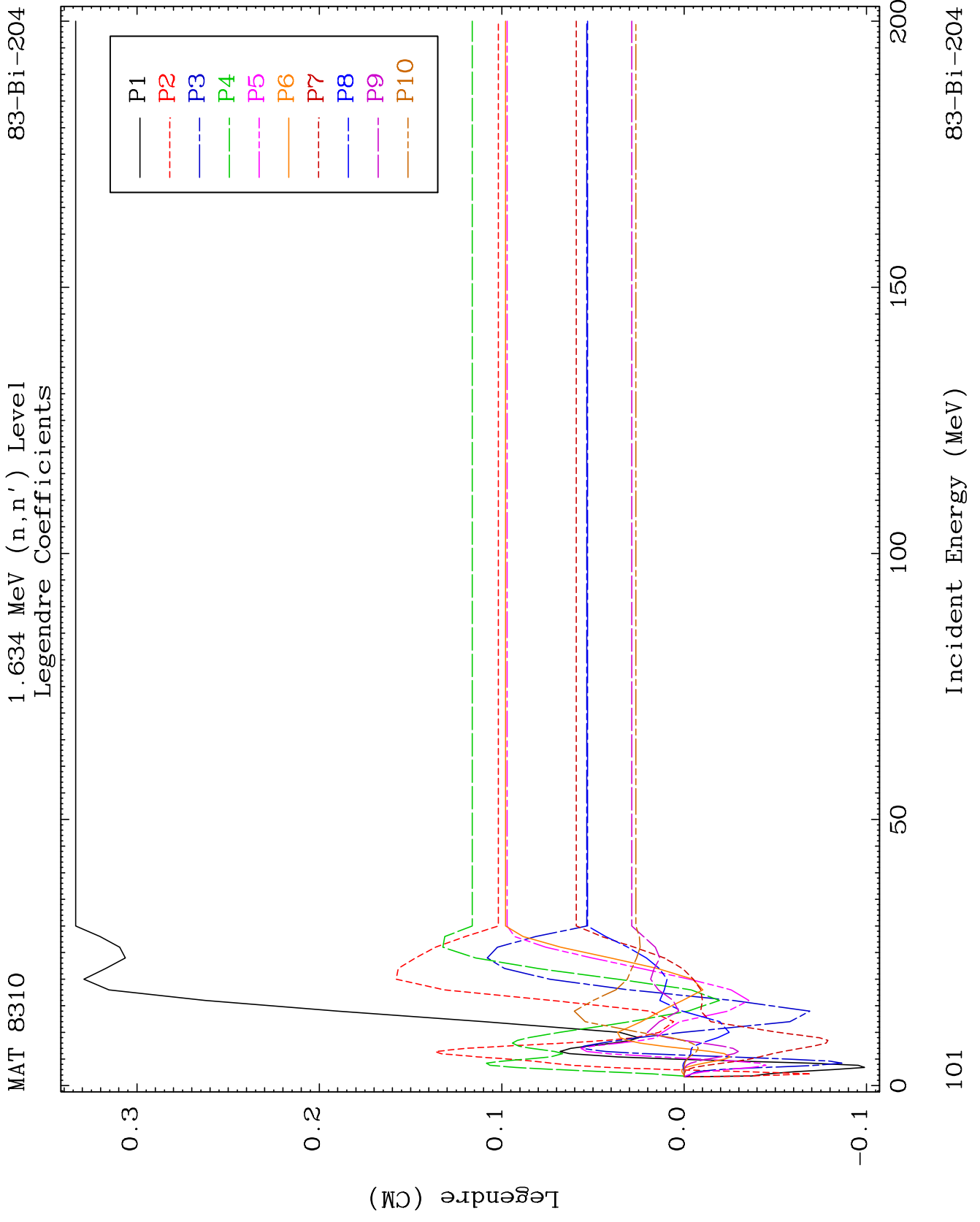


99

Incident Energy (MeV)

83-Bi-204

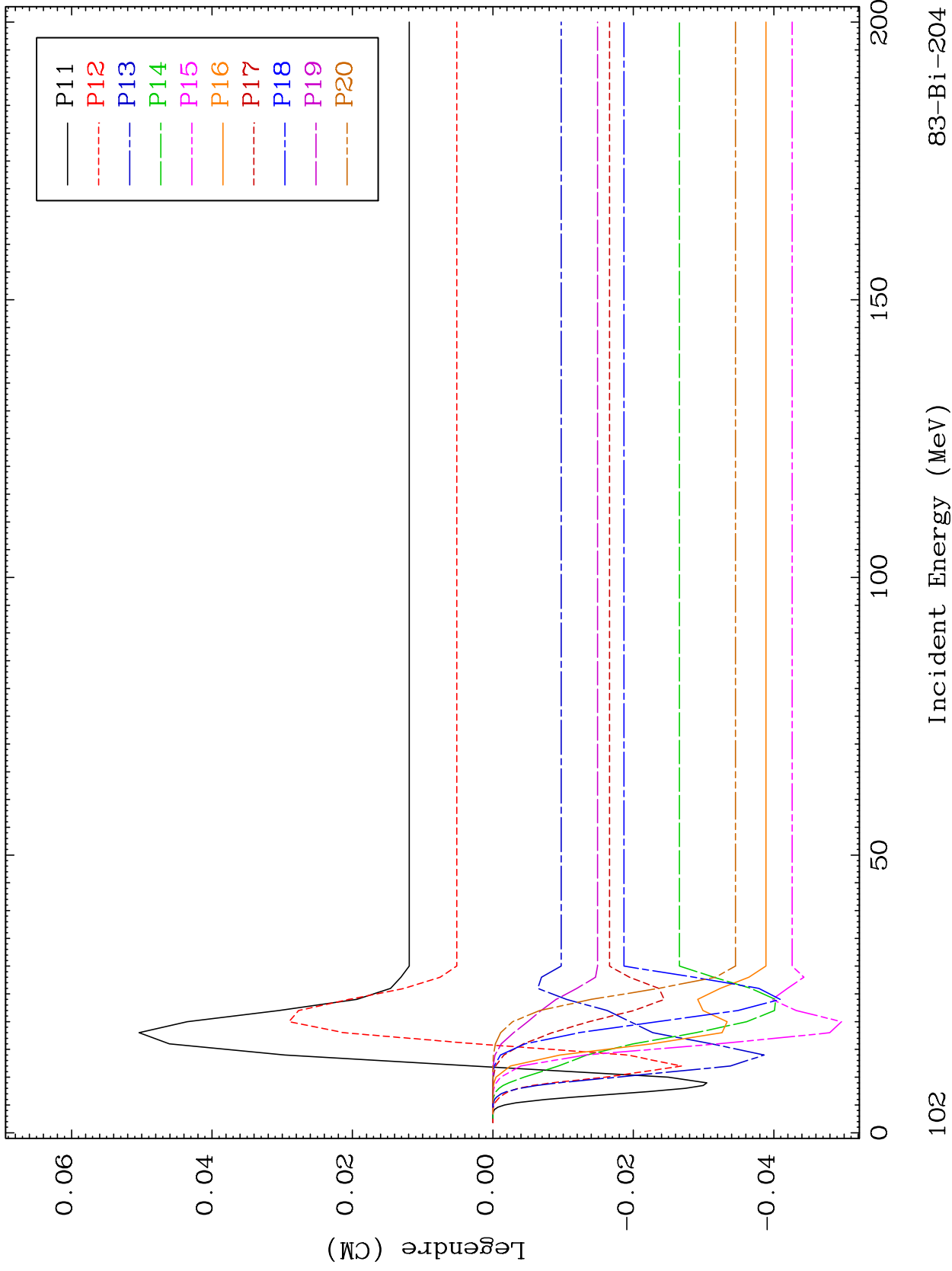




MAT 8310

1.634 MeV (n,n') Level
Legendre Coefficients

83-Bi-204



102

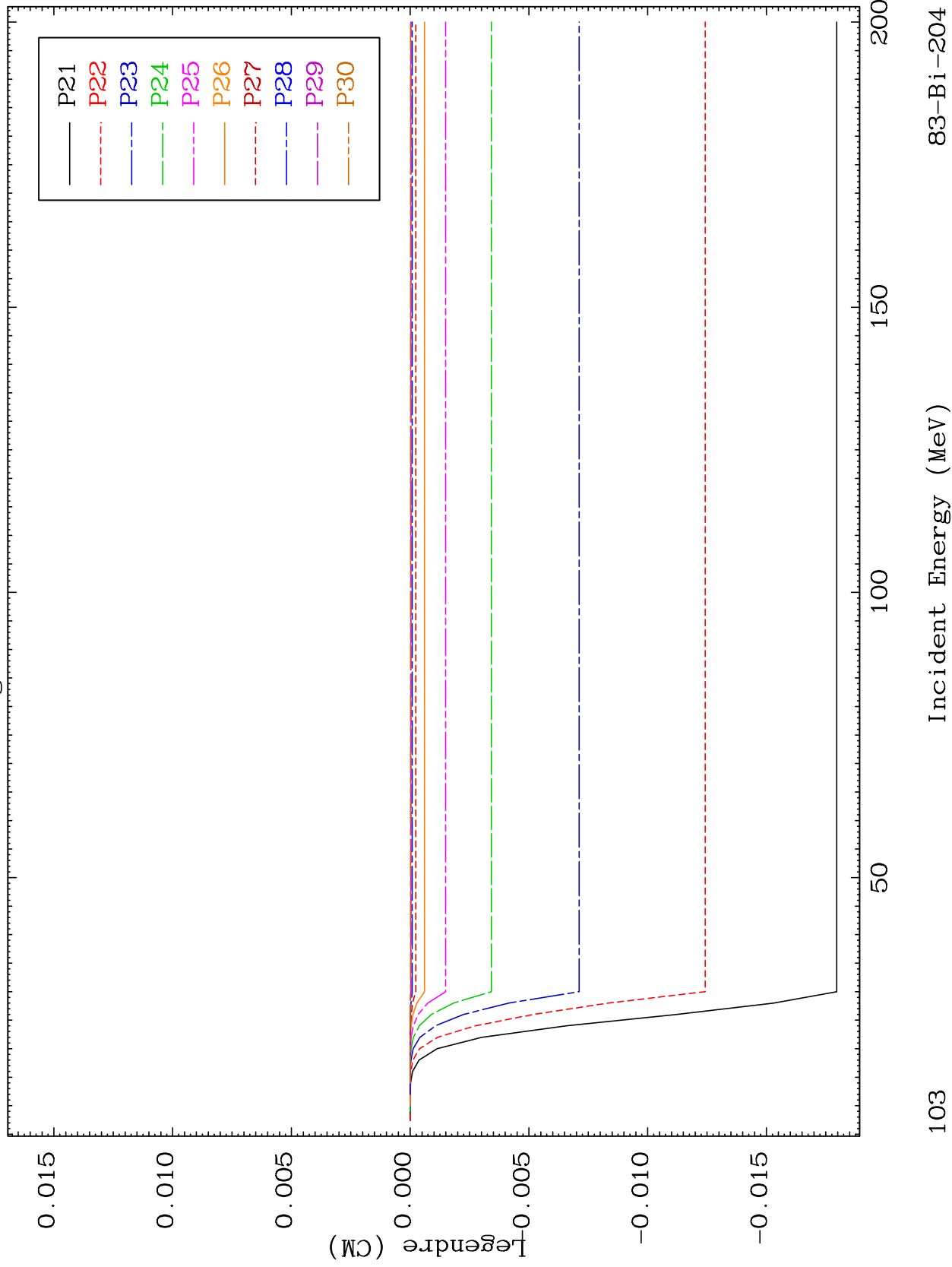
Incident Energy (MeV)

83-Bi-204

MAT 8310

1.634 MeV (n,n') Level
Legendre Coefficients

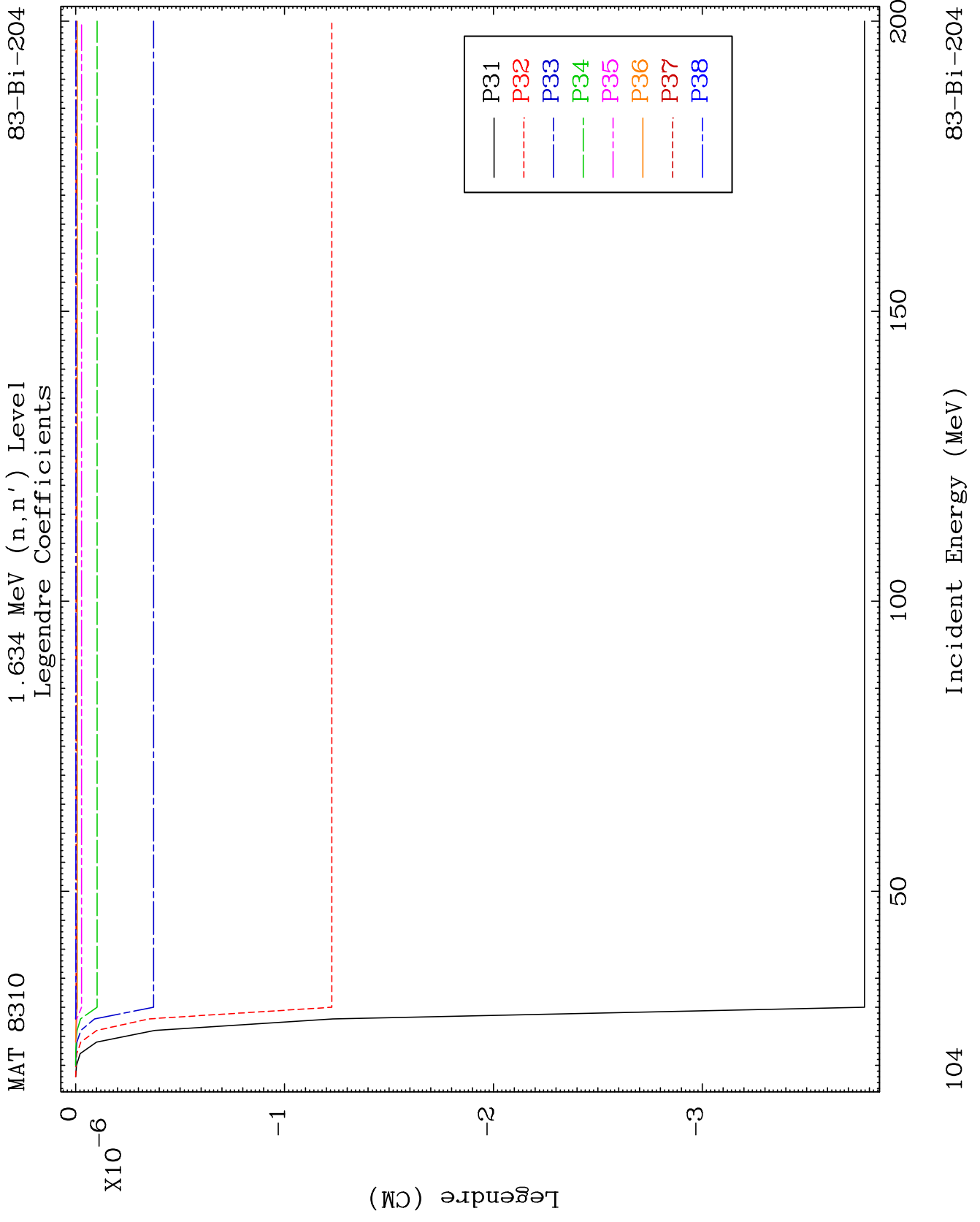
83-Bi-204



103

Incident Energy (MeV)

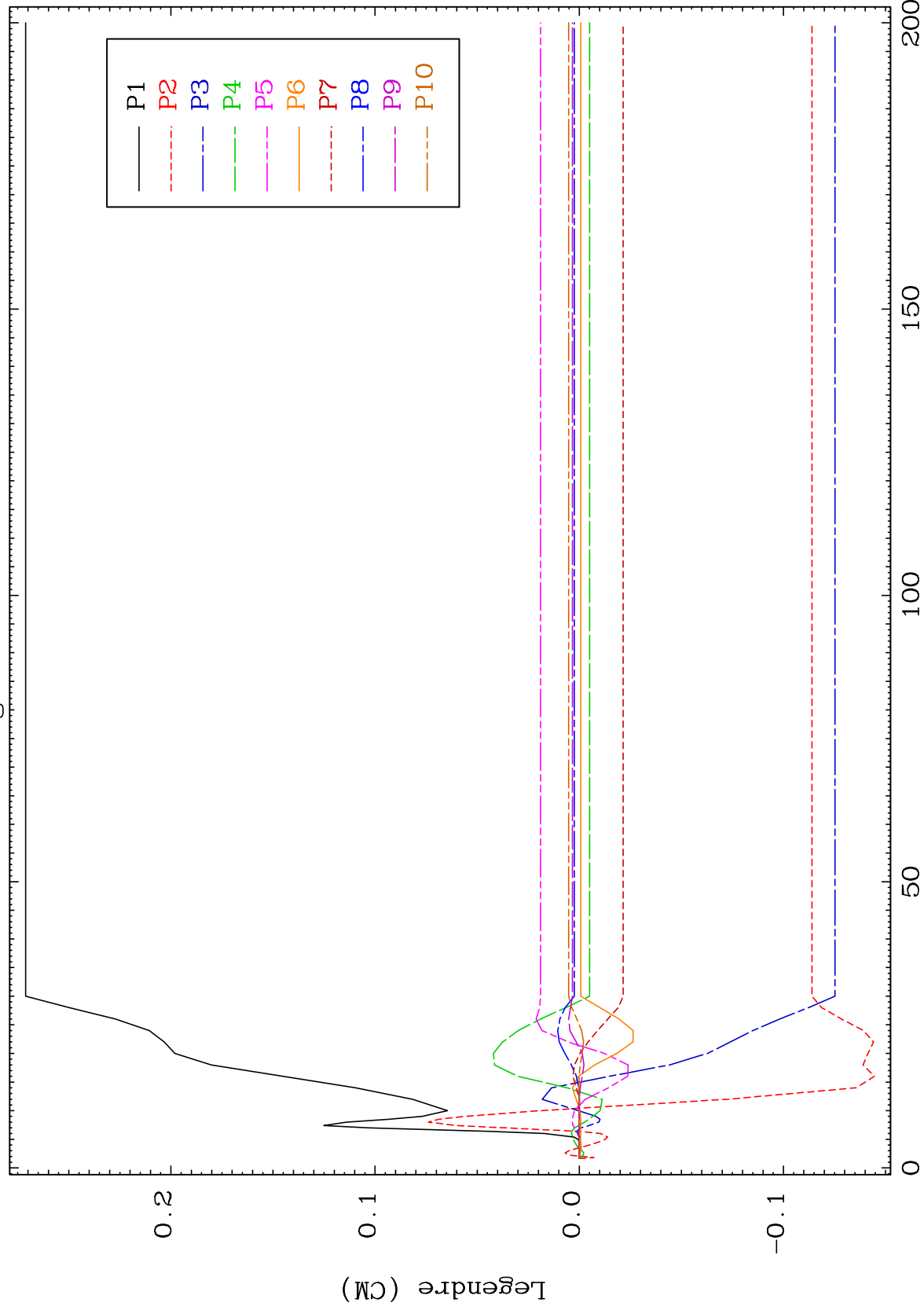
83-Bi-204



MAT 8310

1.640 MeV (n,n') Level
Legendre Coefficients

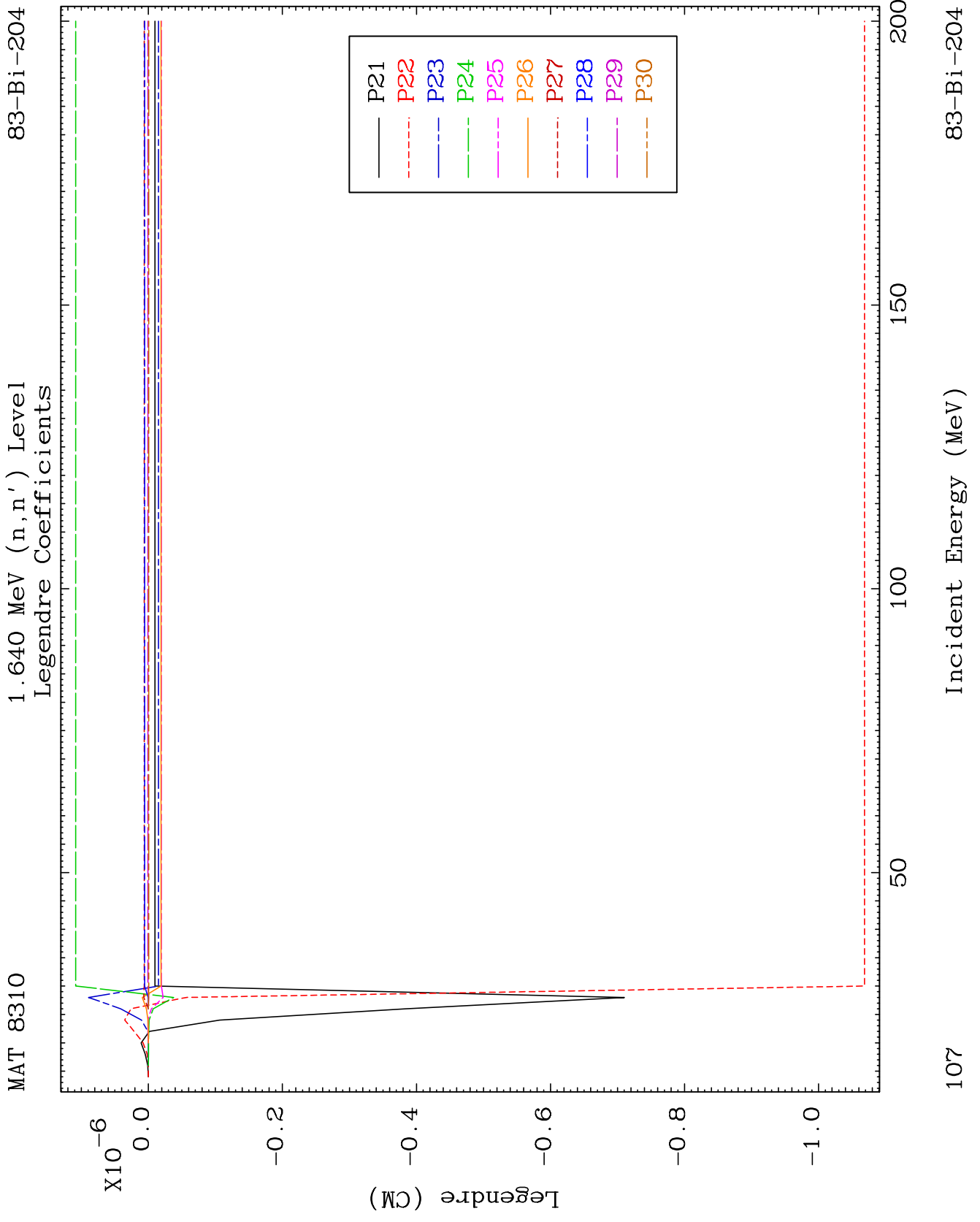
83-Bi-204

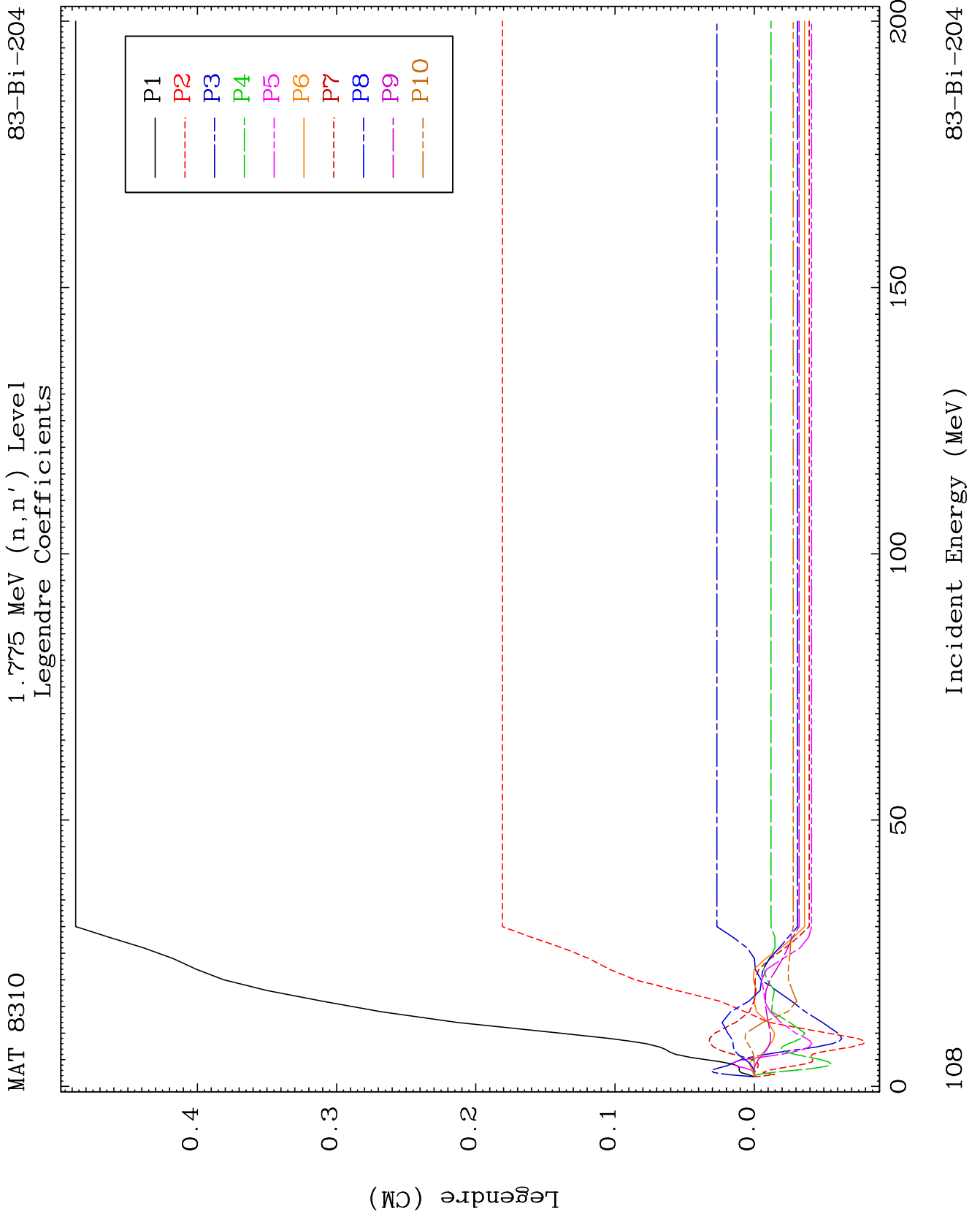


83-Bi-204

Incident Energy (MeV)

105

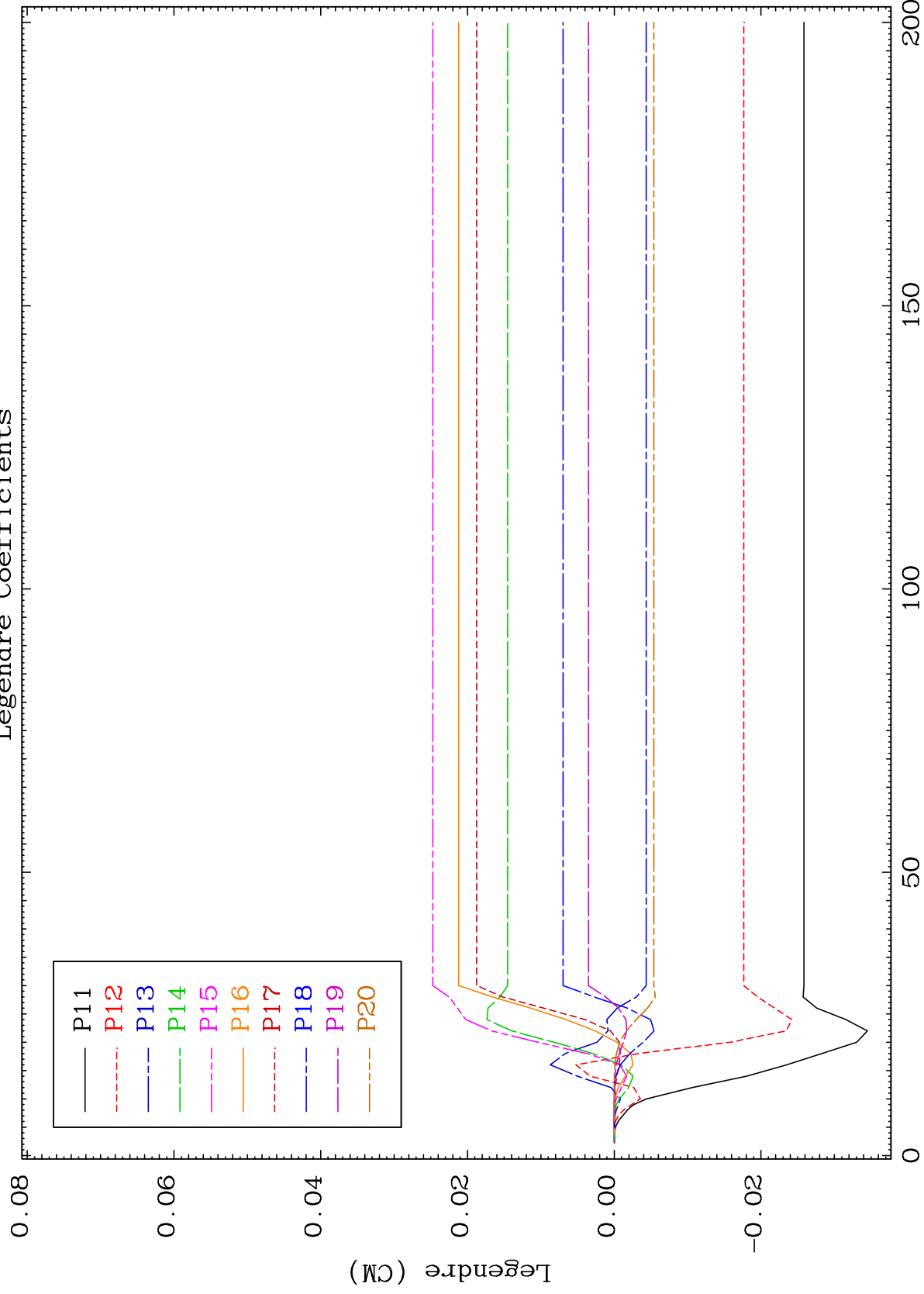




MAT 8310

1.775 MeV (n,n') Level
Legendre Coefficients

83-Bi-204



109

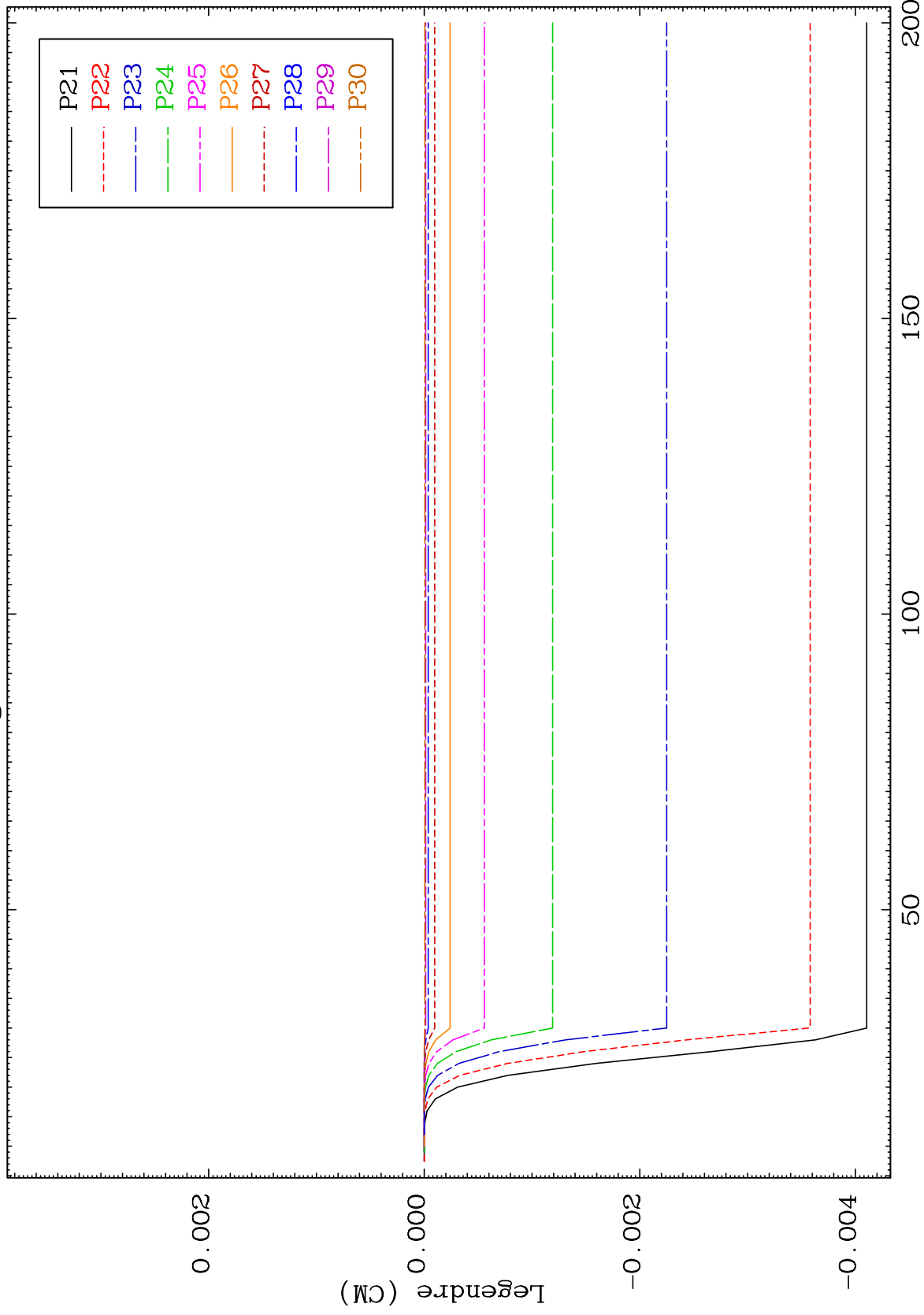
Incident Energy (MeV)

83-Bi-204

MAT 8310

1.775 MeV (n,n') Level
Legendre Coefficients

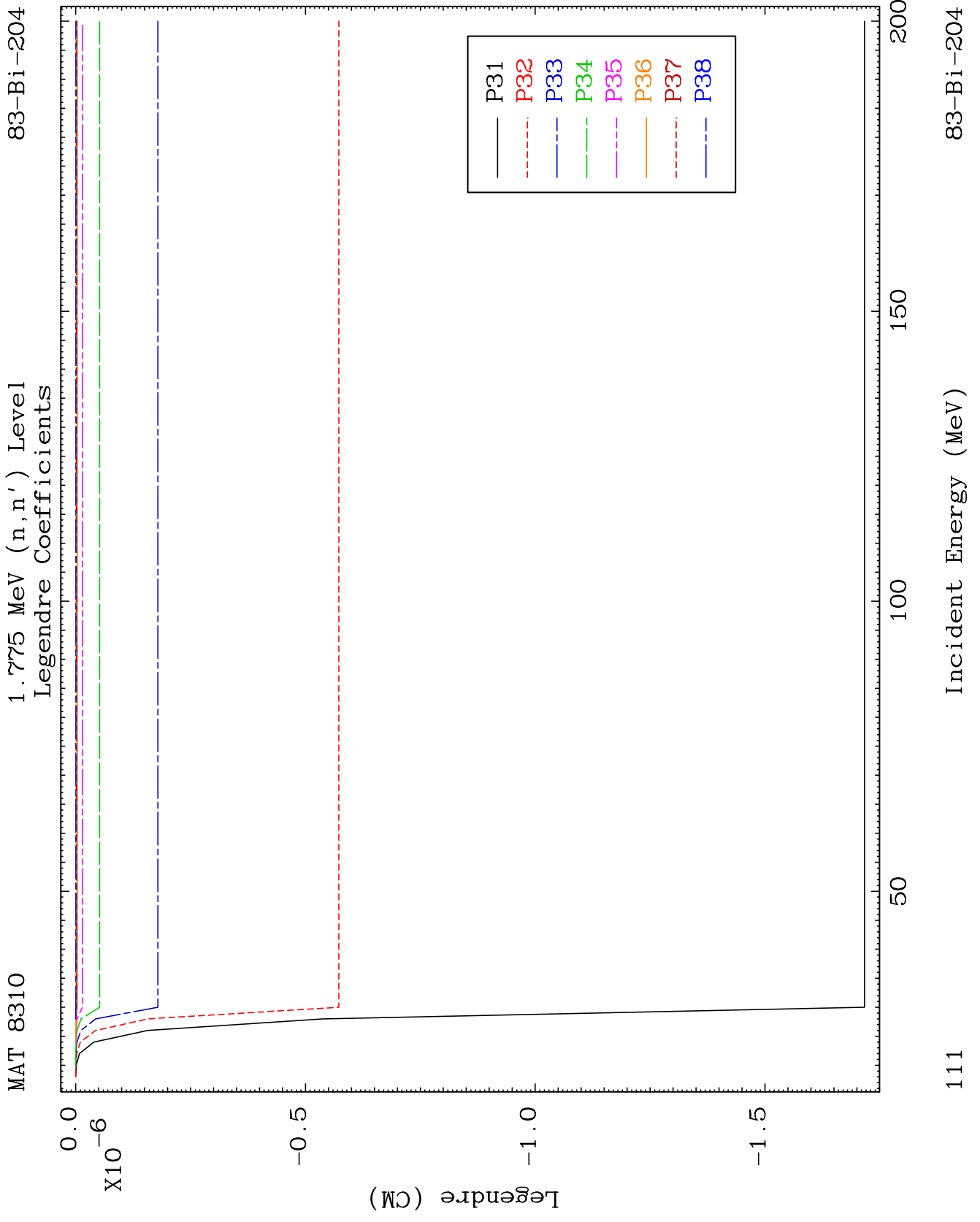
83-Bi-204



110

Incident Energy (MeV)

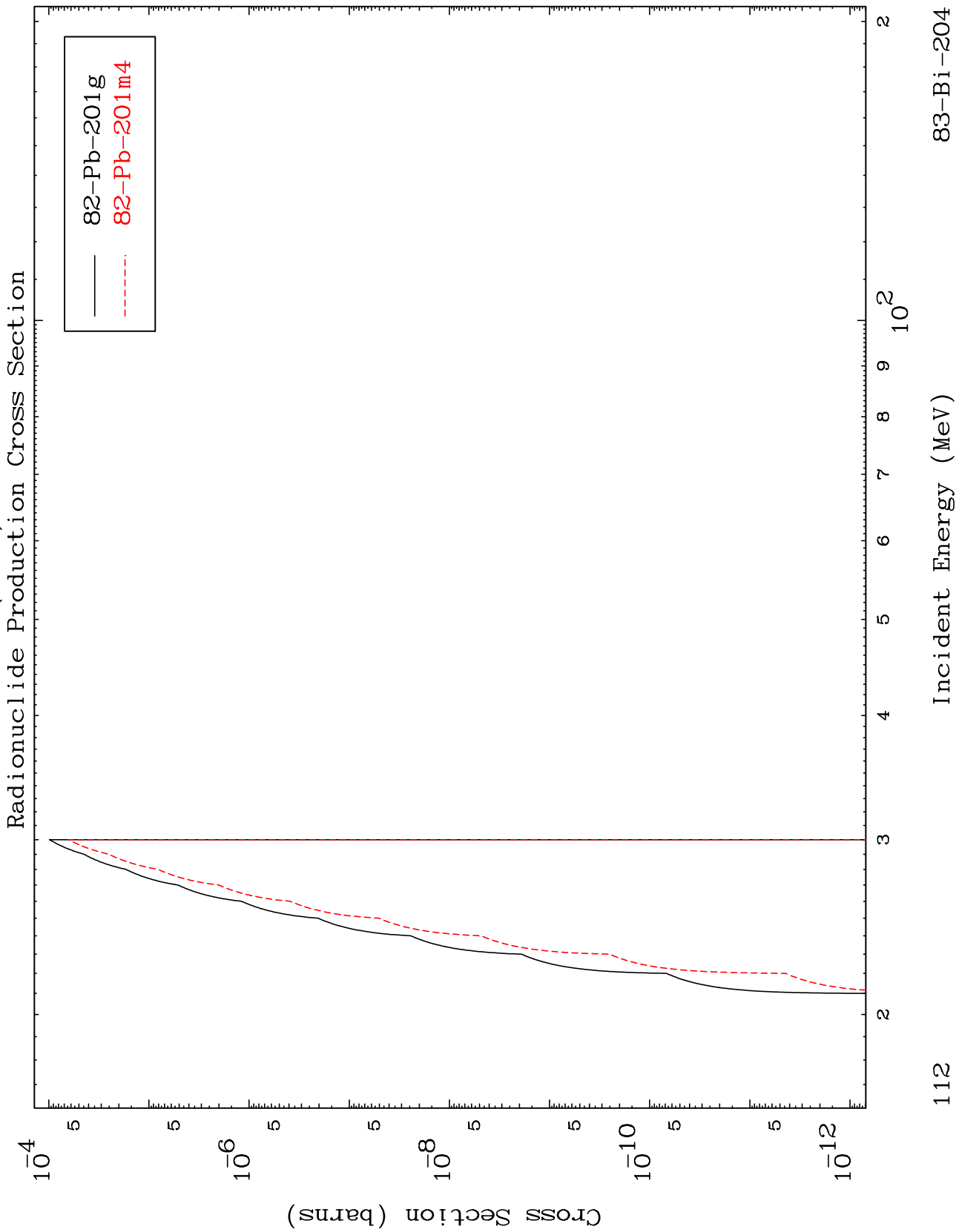
83-Bi-204



MAT 8310

(n,2n) d

83-Bi-204



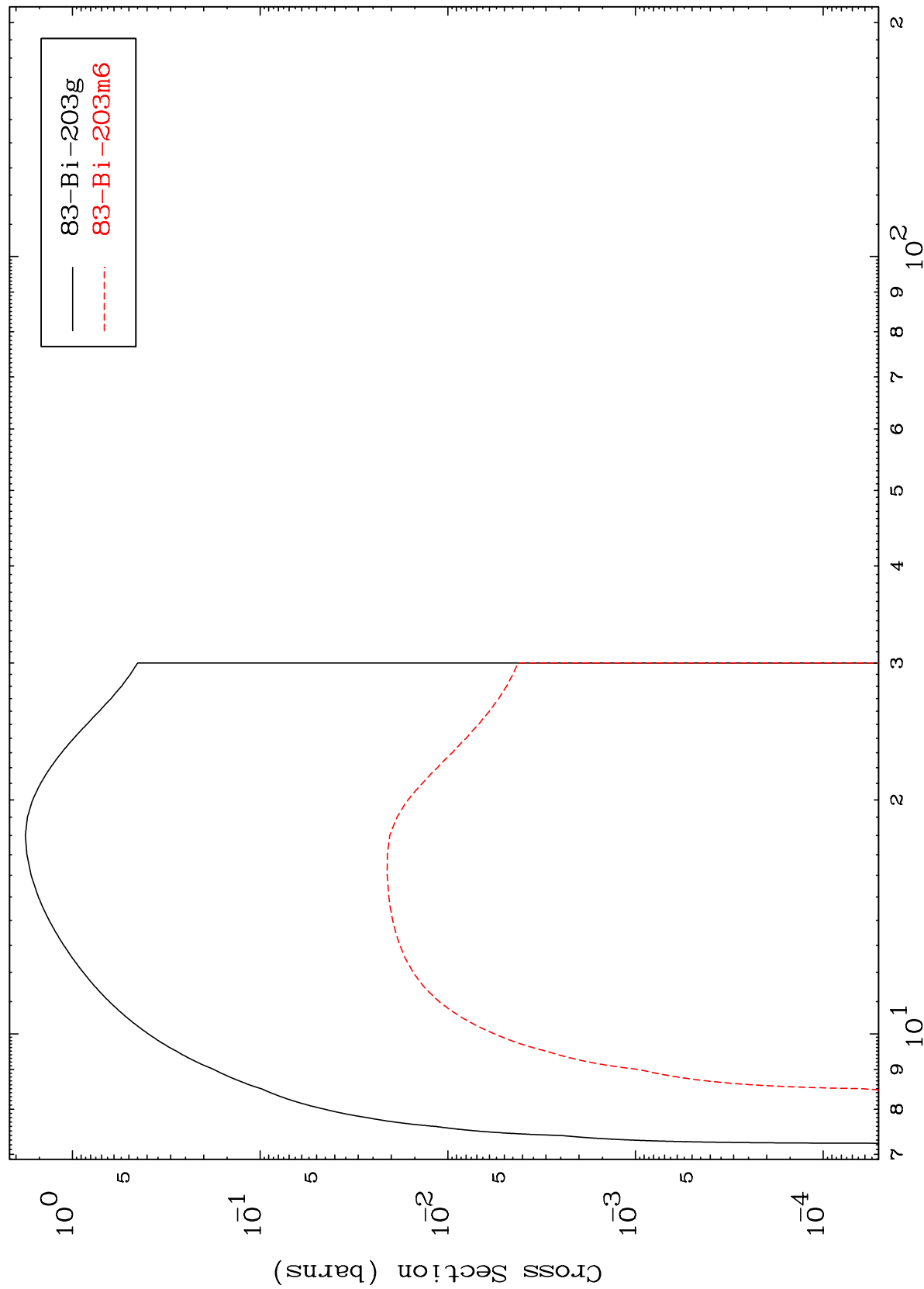
112

83-Bi-204

MAT 8310

83-Bi-204

(n,2n)
Radionuclide Production Cross Section



83-Bi-203g
83-Bi-203m6

83-Bi-204

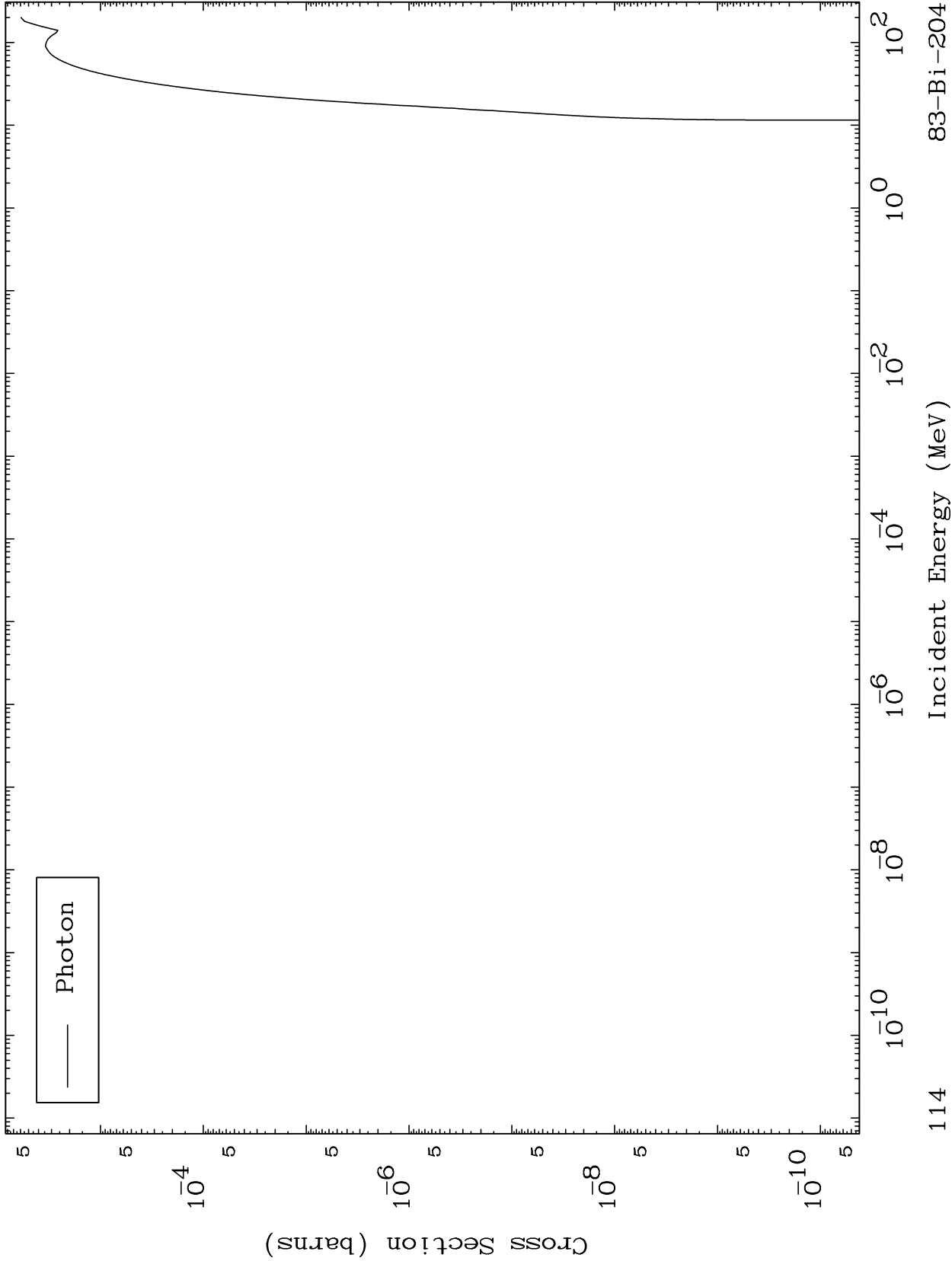
Incident Energy (MeV)

113

MAT 8310

Fission
Radionuclide Production Cross Section

83-Bi-204



114

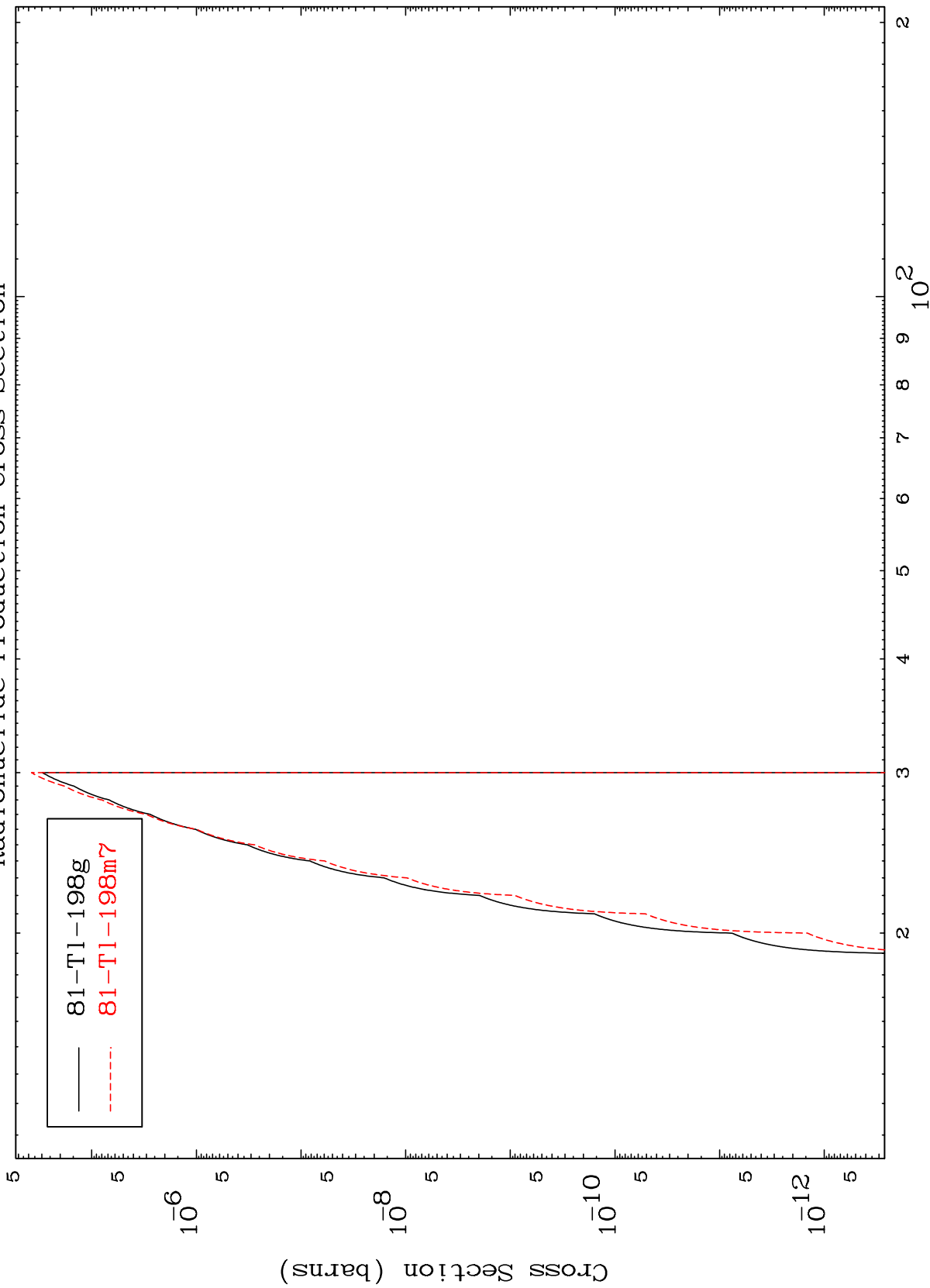
83-Bi-204

MAT 8310

$(n,3n) \alpha$

83-Bi-204

Radionuclide Production Cross Section



115

Incident Energy (MeV)

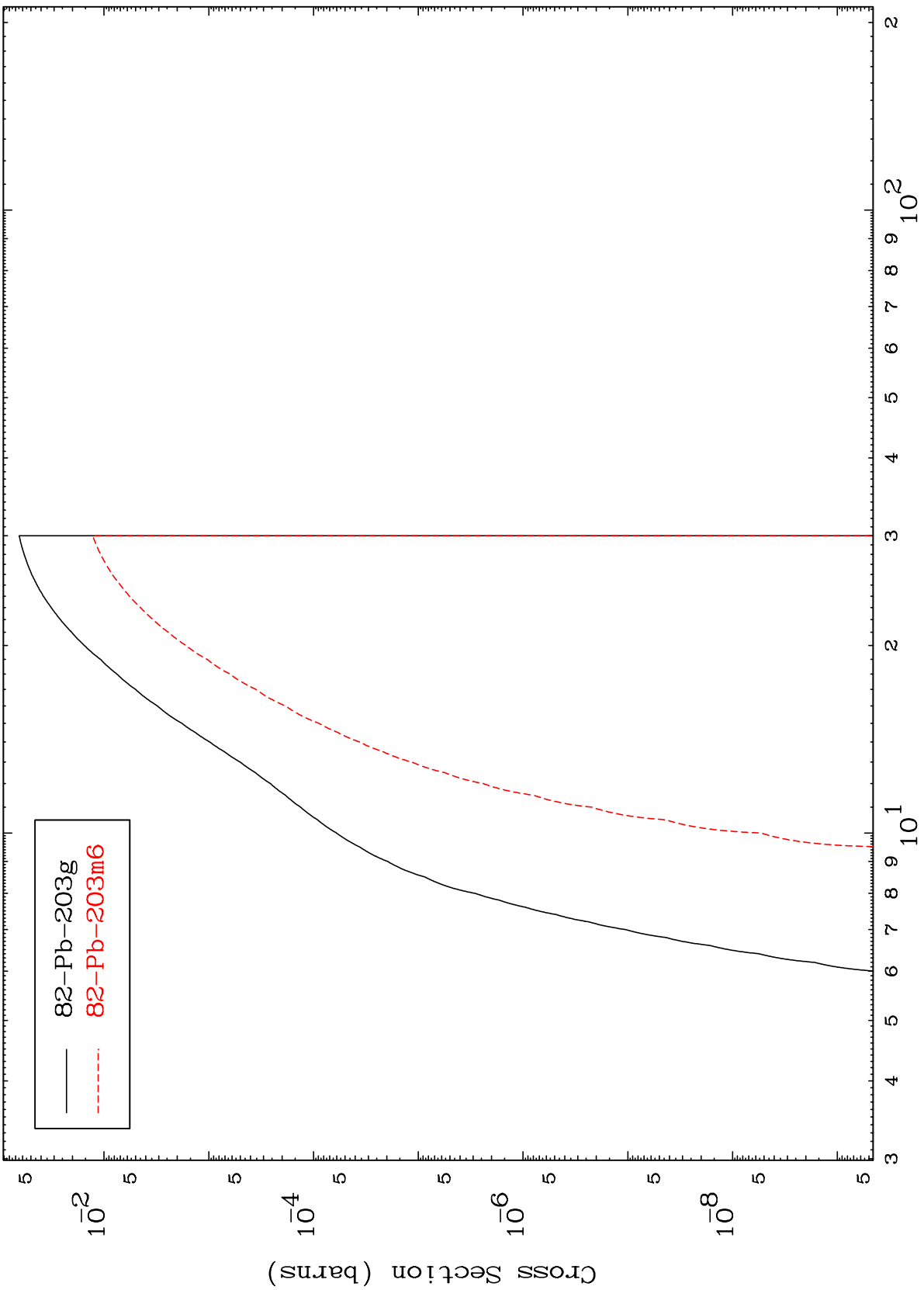
83-Bi-204

MAT 8310

(n,n') p

83-Bi-204

Radionuclide Production Cross Section



82-Pb-203g
82-Pb-203m6

116

Incident Energy (MeV)

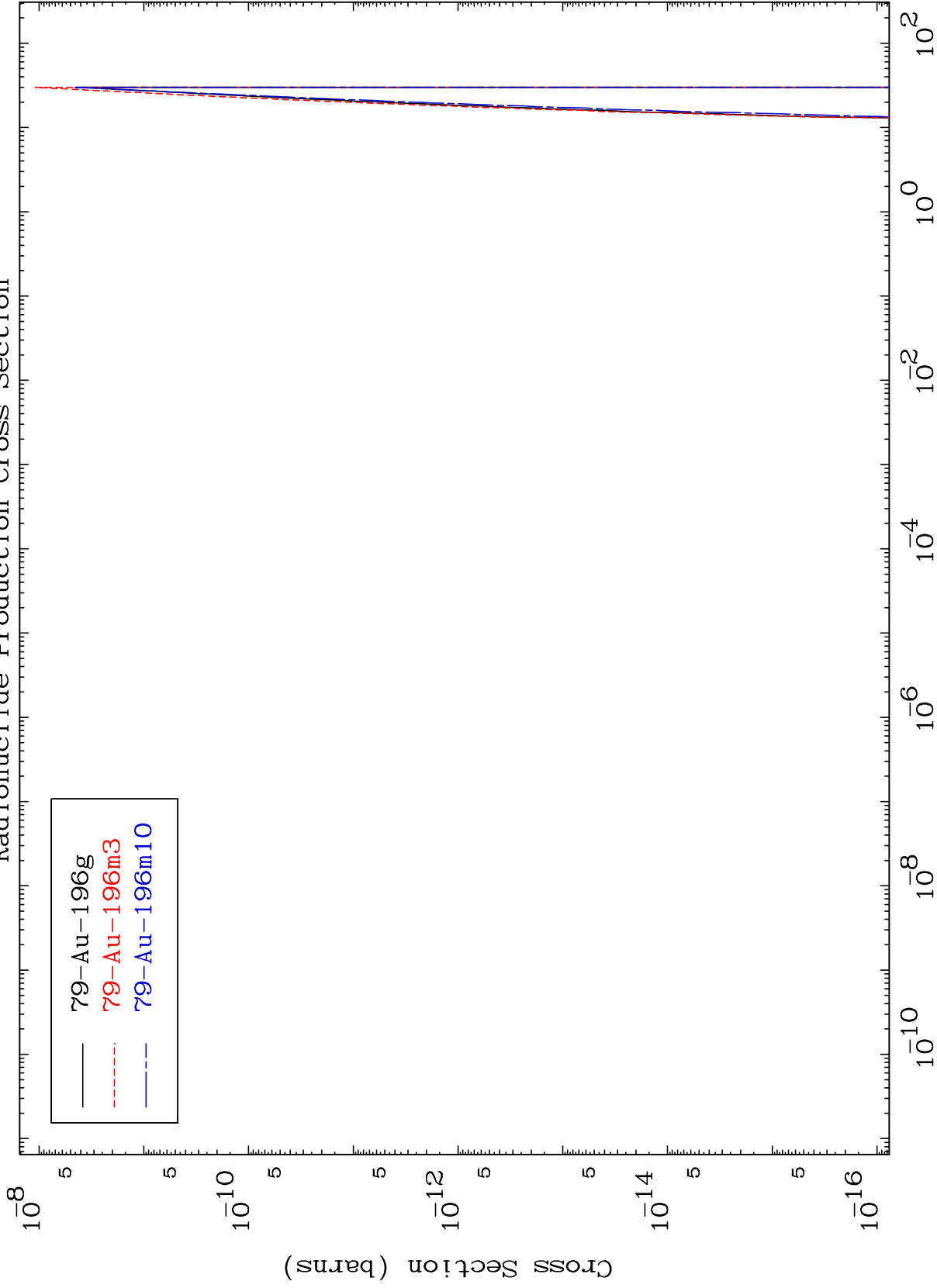
83-Bi-204

MAT 8310

(n,n') 2 α

83-Bi-204

Radionuclide Production Cross Section



117

Incident Energy (MeV)

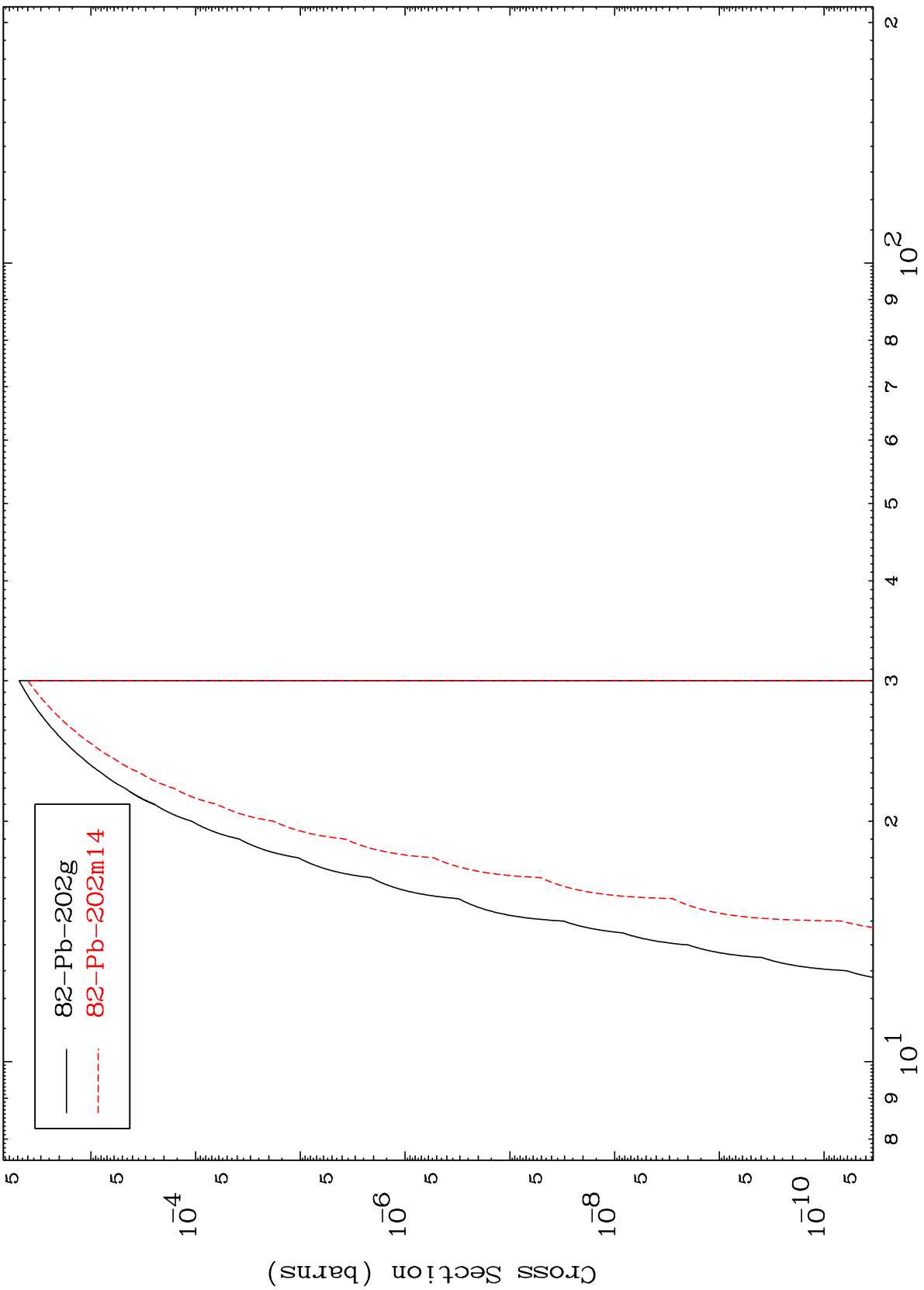
83-Bi-204

MAT 8310

(n,n') d

83-Bi-204

Radionuclide Production Cross Section



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

118

Incident Energy (MeV)

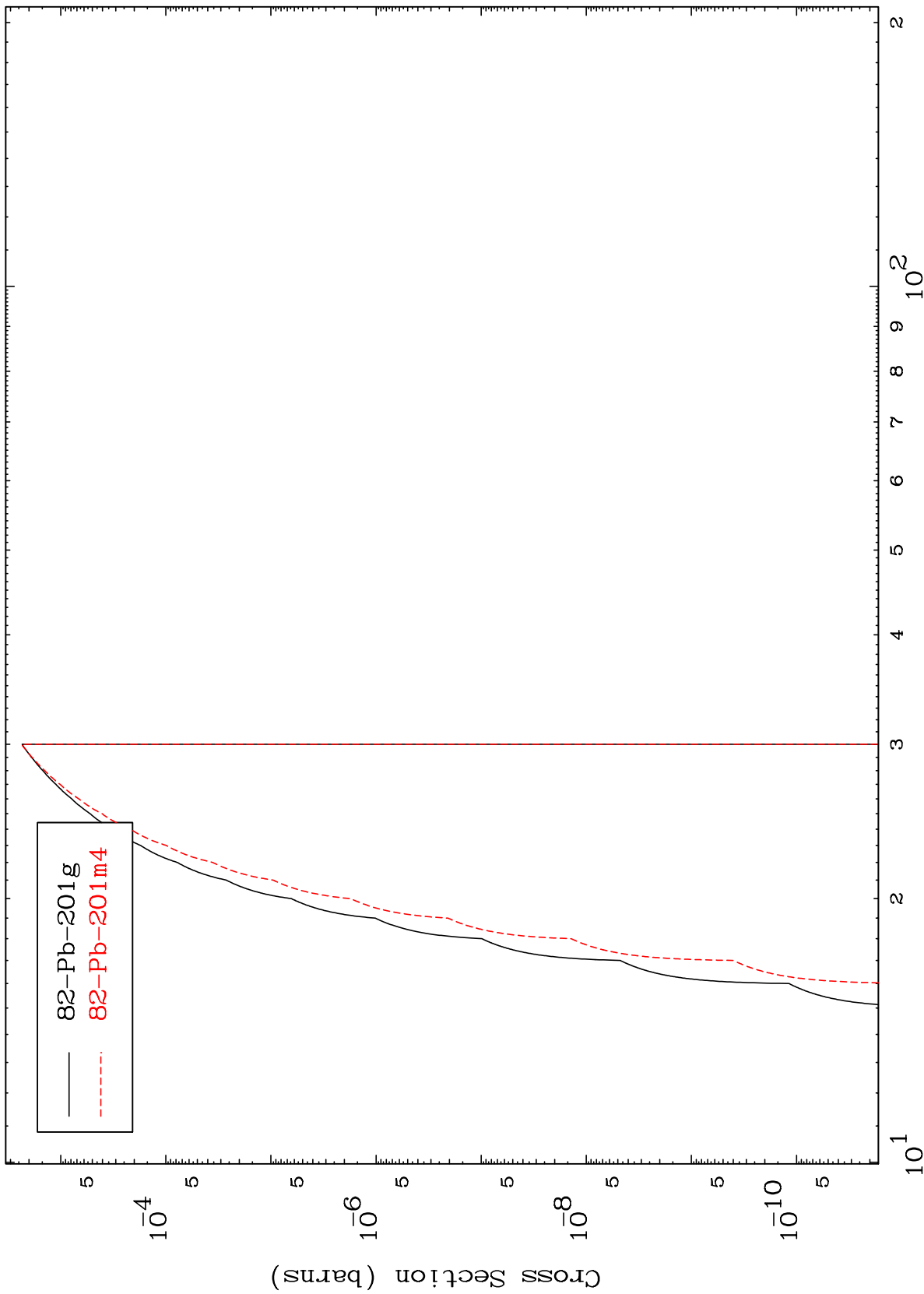
83-Bi-204

MAT 8310

(n,n') t

83-Bi-204

Radionuclide Production Cross Section



119

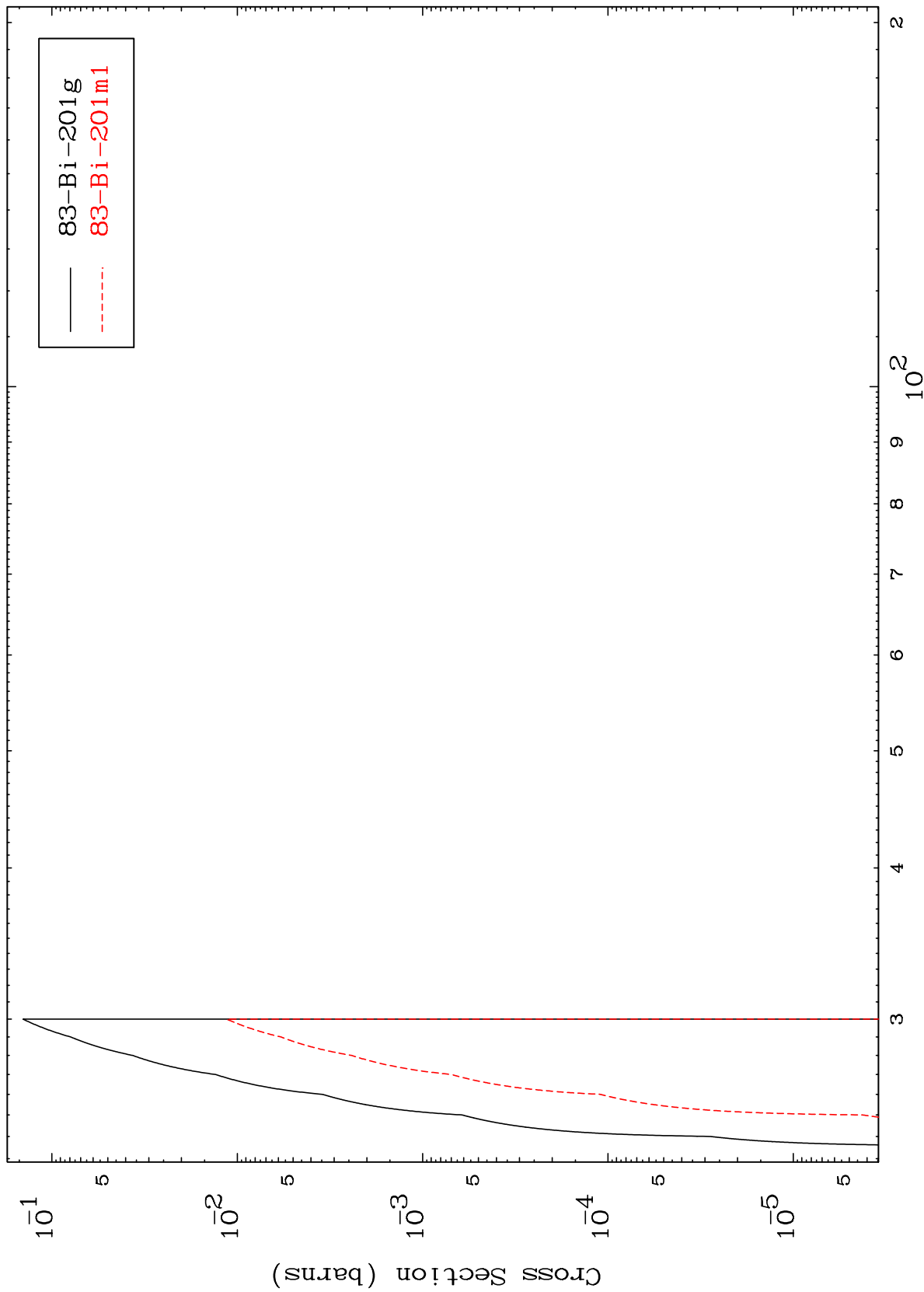
Incident Energy (MeV)

83-Bi-204

MAT 8310

83-Bi-204

(n,4n)
Radionuclide Production Cross Section



120

Incident Energy (MeV)

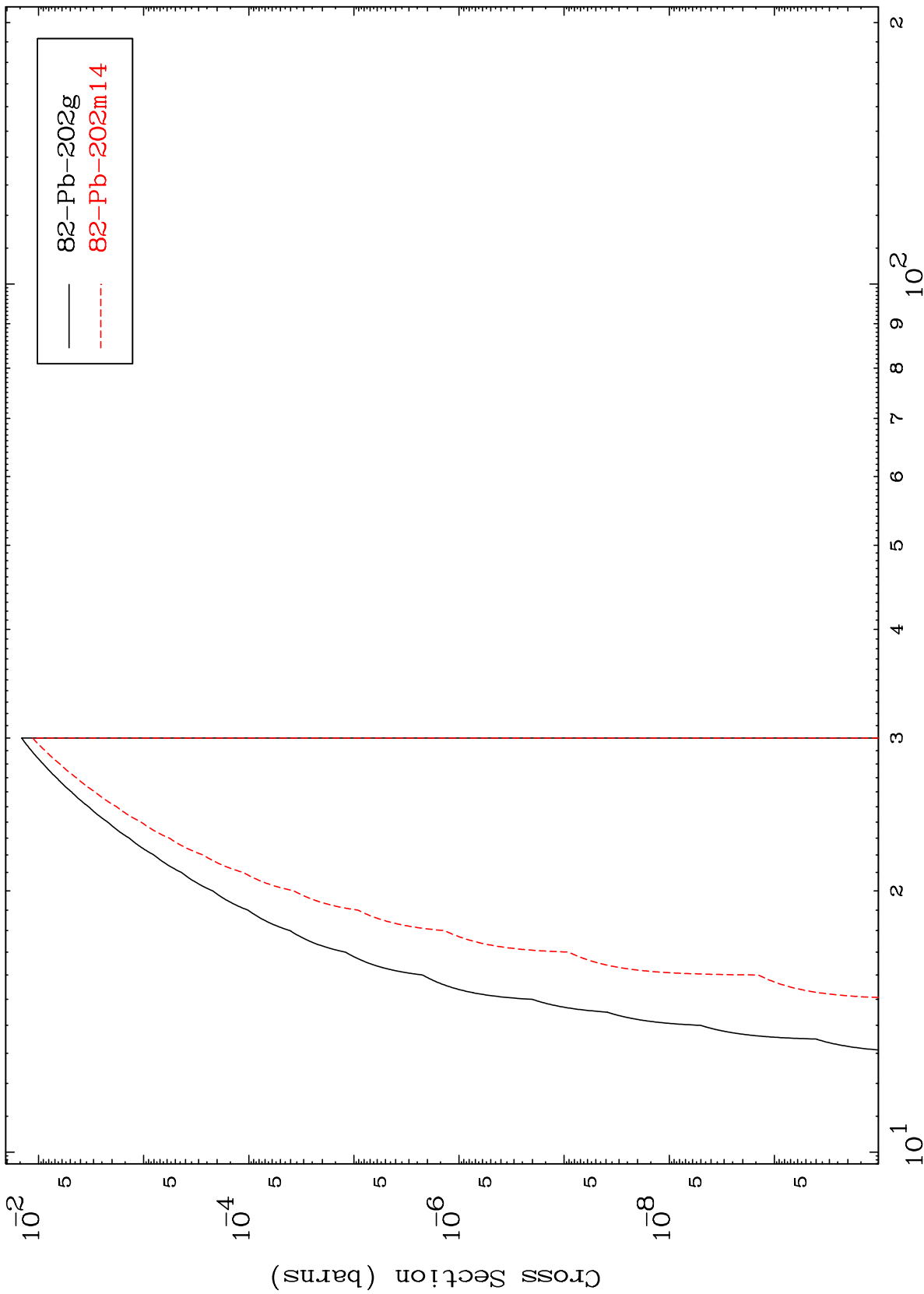
83-Bi-204

MAT 8310

(n,2n) p

83-Bi-204

Radionuclide Production Cross Section



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

121

Incident Energy (MeV)

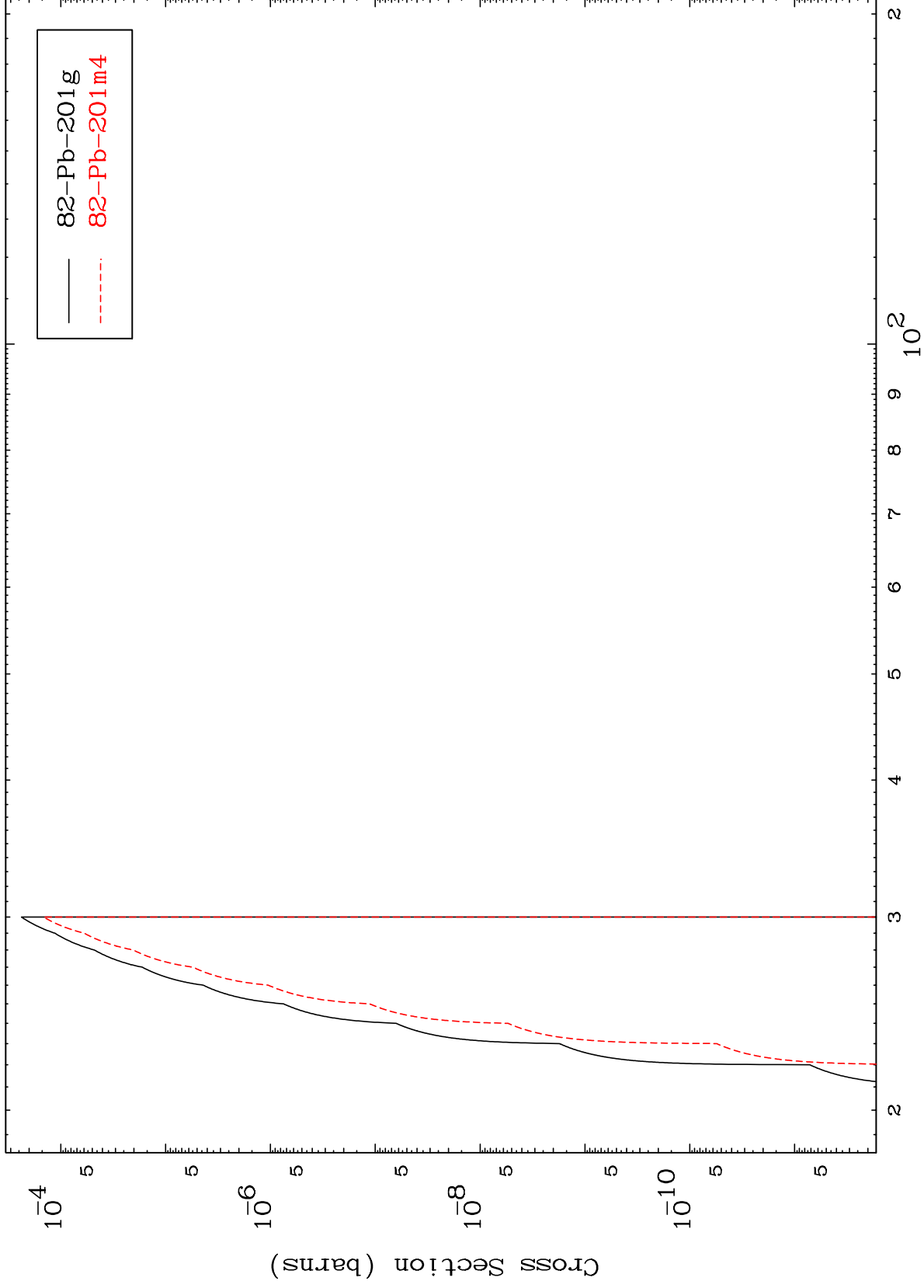
83-Bi-204

MAT 8310

(n,3n) p

83-Bi-204

Radionuclide Production Cross Section



122

Incident Energy (MeV)

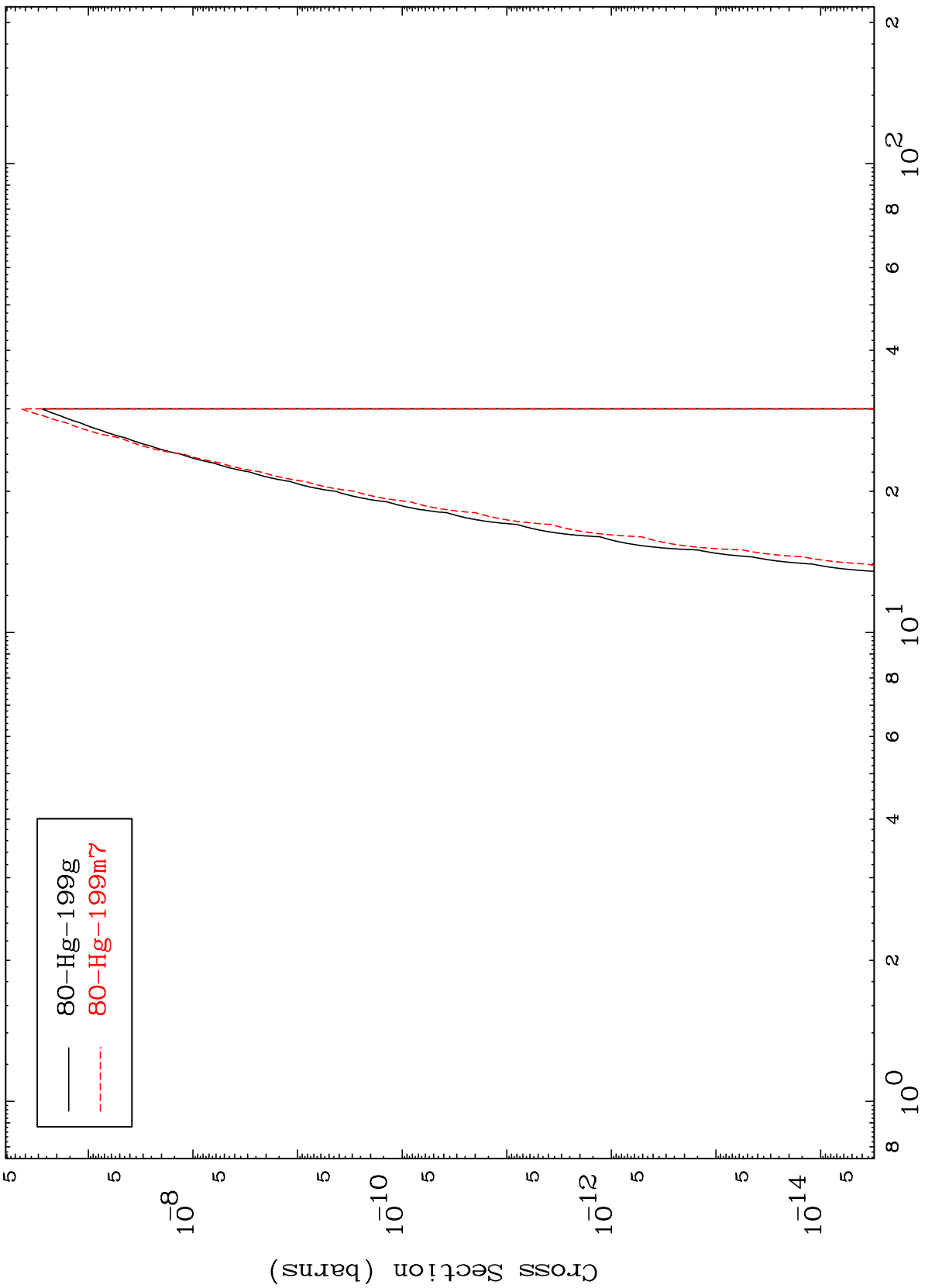
83-Bi-204

MAT 8310

(n,n') p α

83-Bi-204

Radionuclide Production Cross Section



123

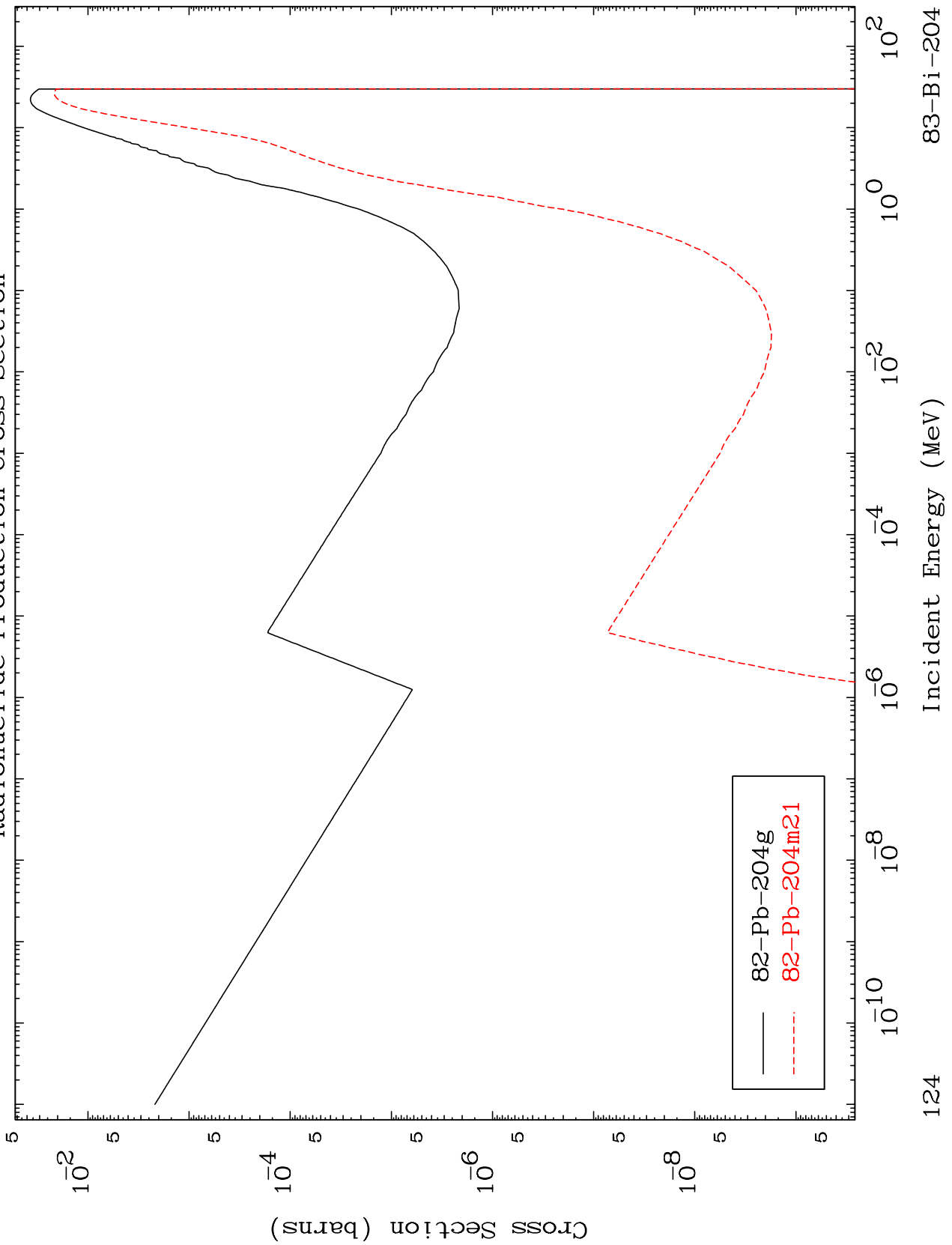
Incident Energy (MeV)

83-Bi-204

MAT 8310

83-Bi-204

(n,p)
Radionuclide Production Cross Section

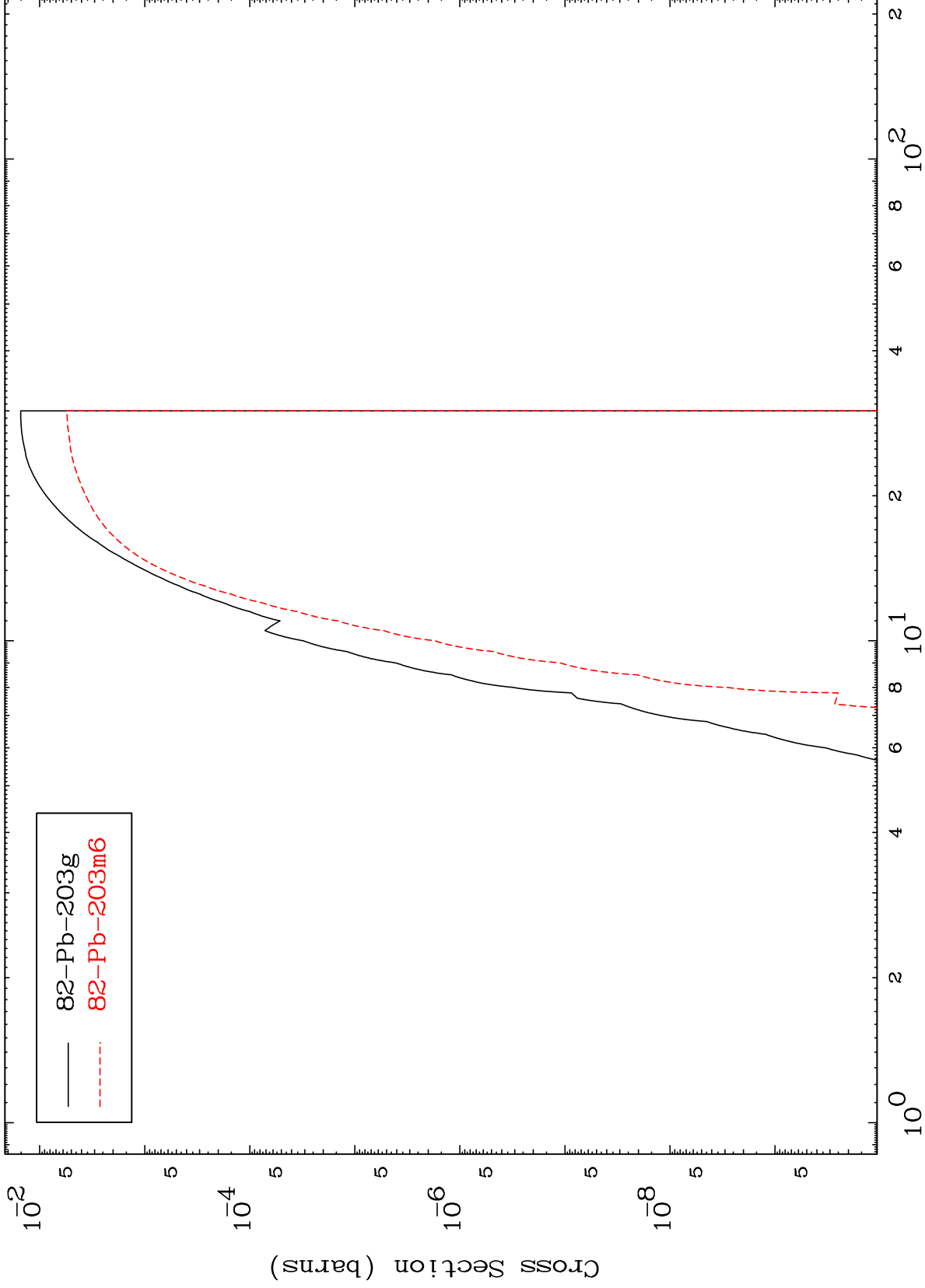


MAT 8310

(n,d)

83-Bi-204

Radionuclide Production Cross Section

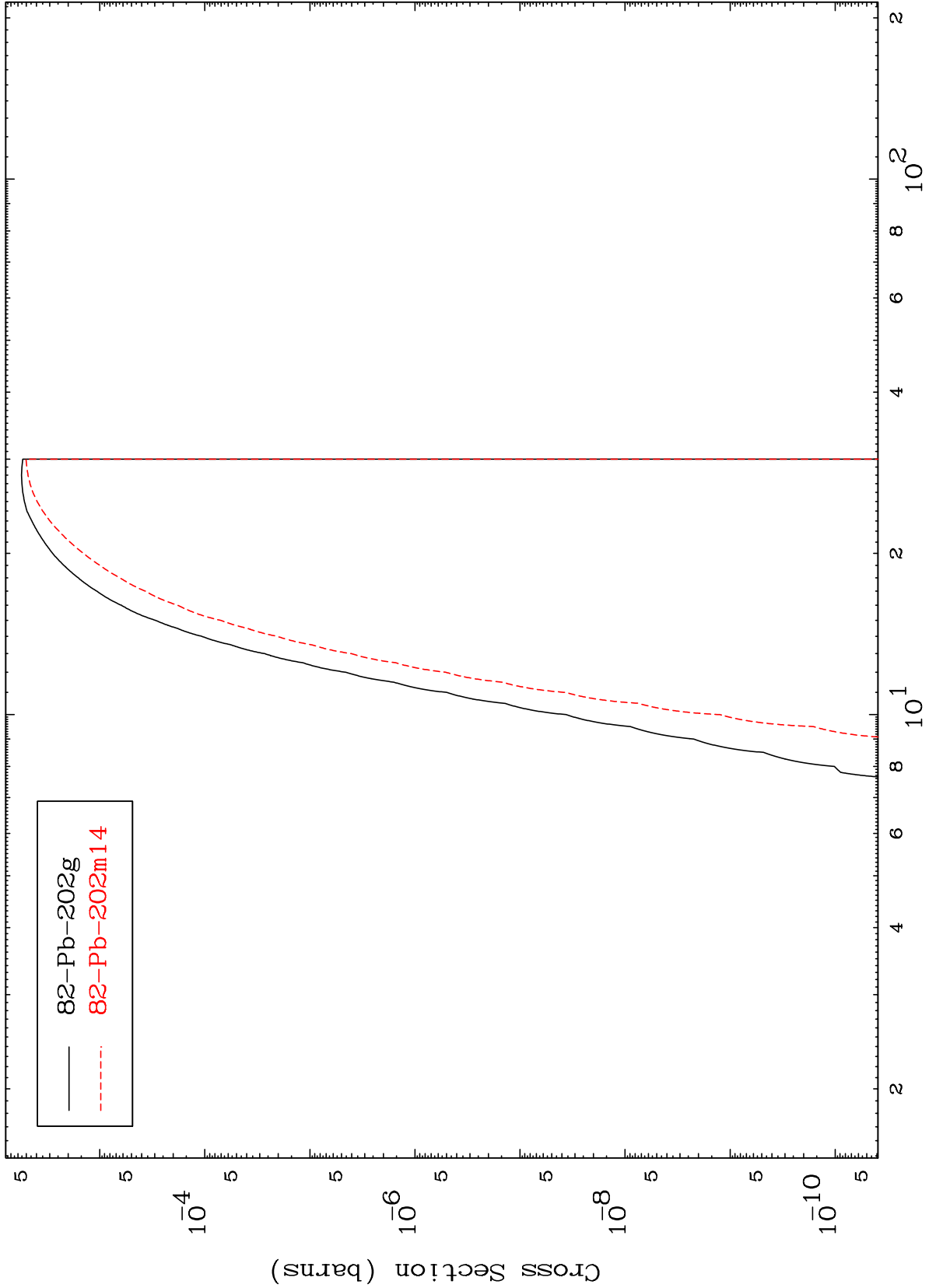


82-Pb-203g
82-Pb-203m6

MAT 8310

83-Bi-204

(n, t)
Radionuclide Production Cross Section



83-Bi-204

Incident Energy (MeV)

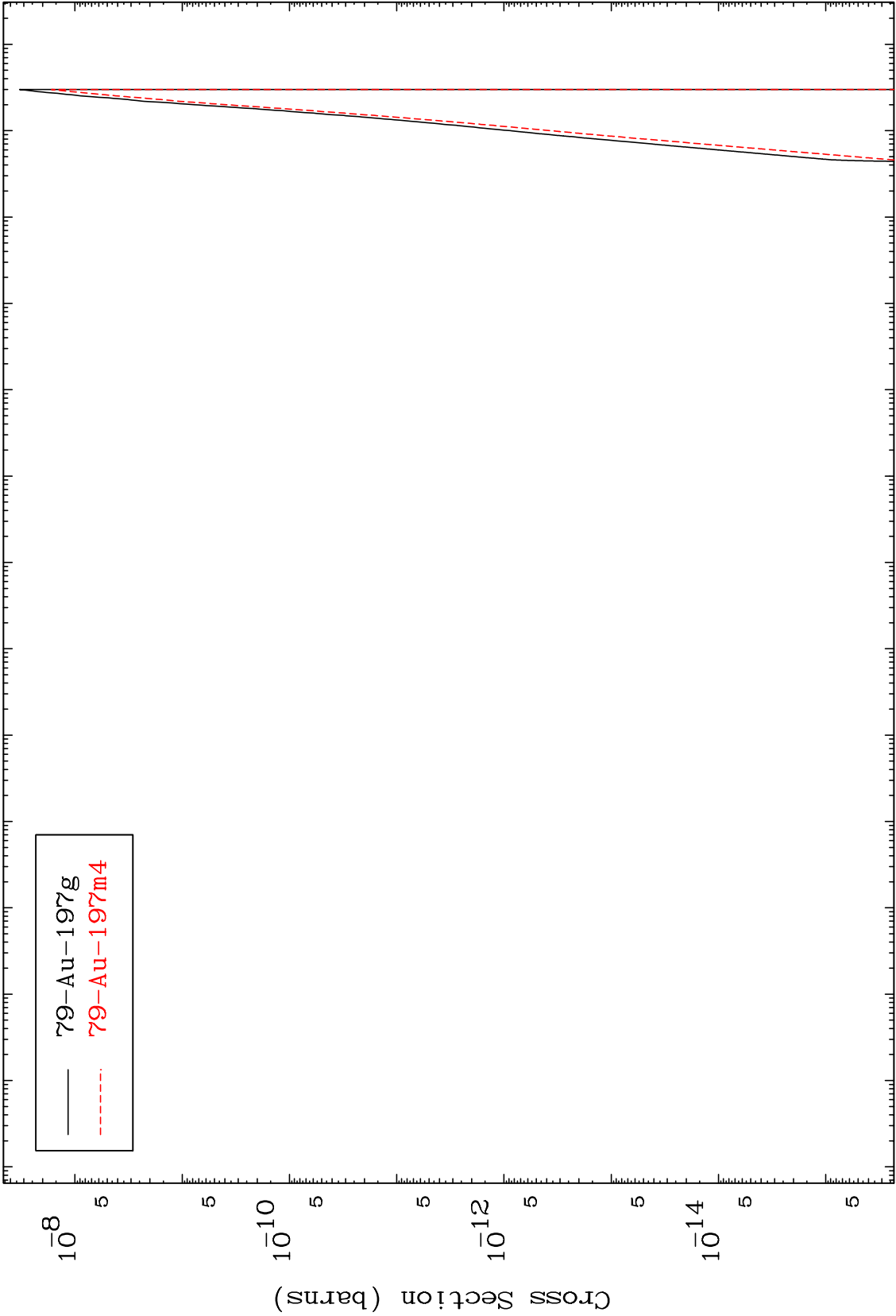
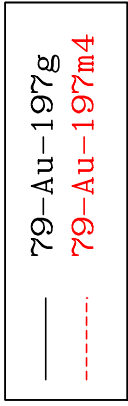
126

MAT 8310

(n,2α)

83-Bi-204

Radionuclide Production Cross Section



83-Bi-204

10²

10⁰

10⁻²

10⁻⁴

10⁻⁶

10⁻⁸

10⁻¹⁰

10⁻¹⁴

5

83-Bi-204

MAT 8310

(n,d) α

83-Bi-204

Radionuclide Production Cross Section

