

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

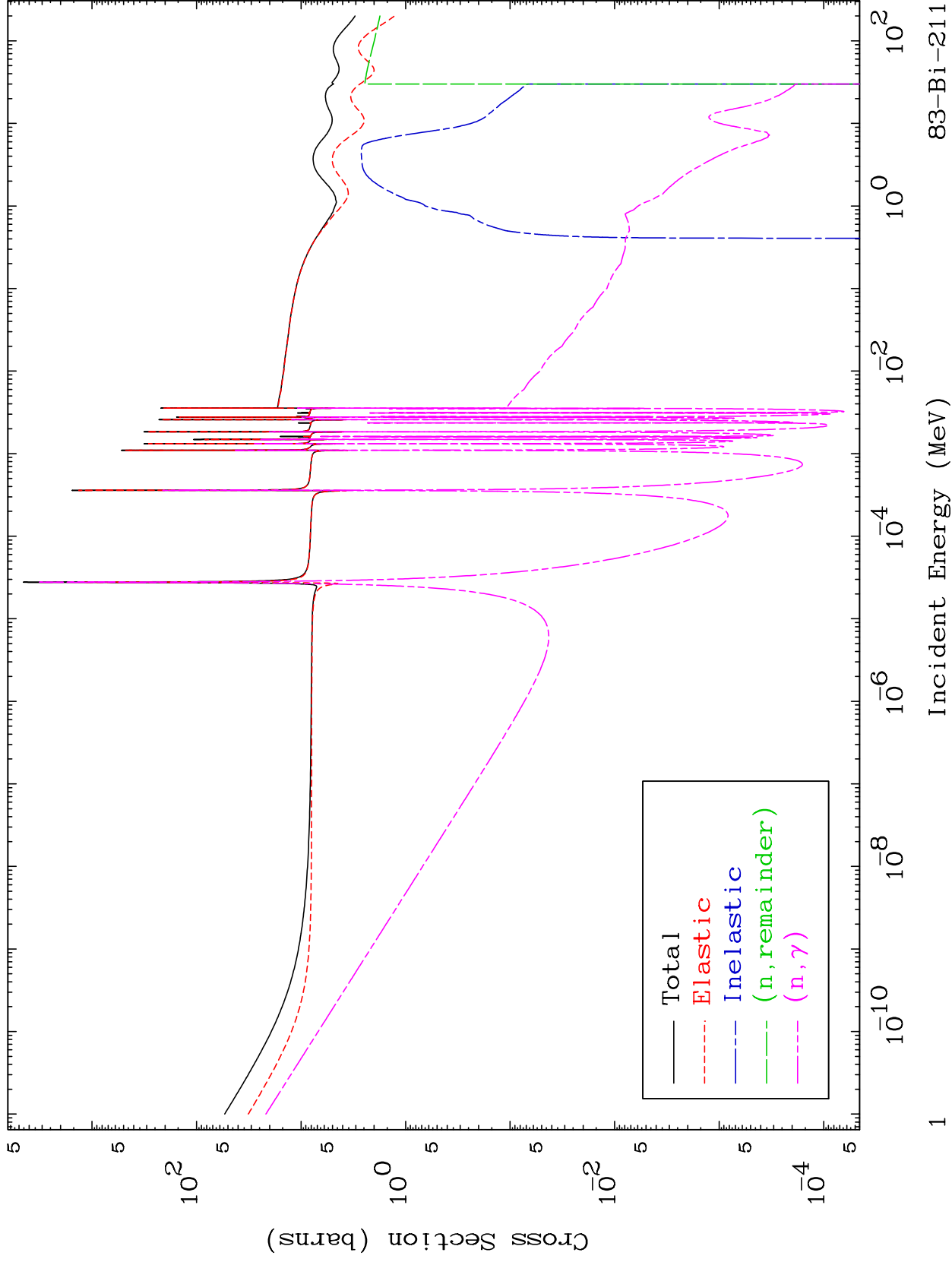
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 8331

Major
293 Kelvin Cross Sections

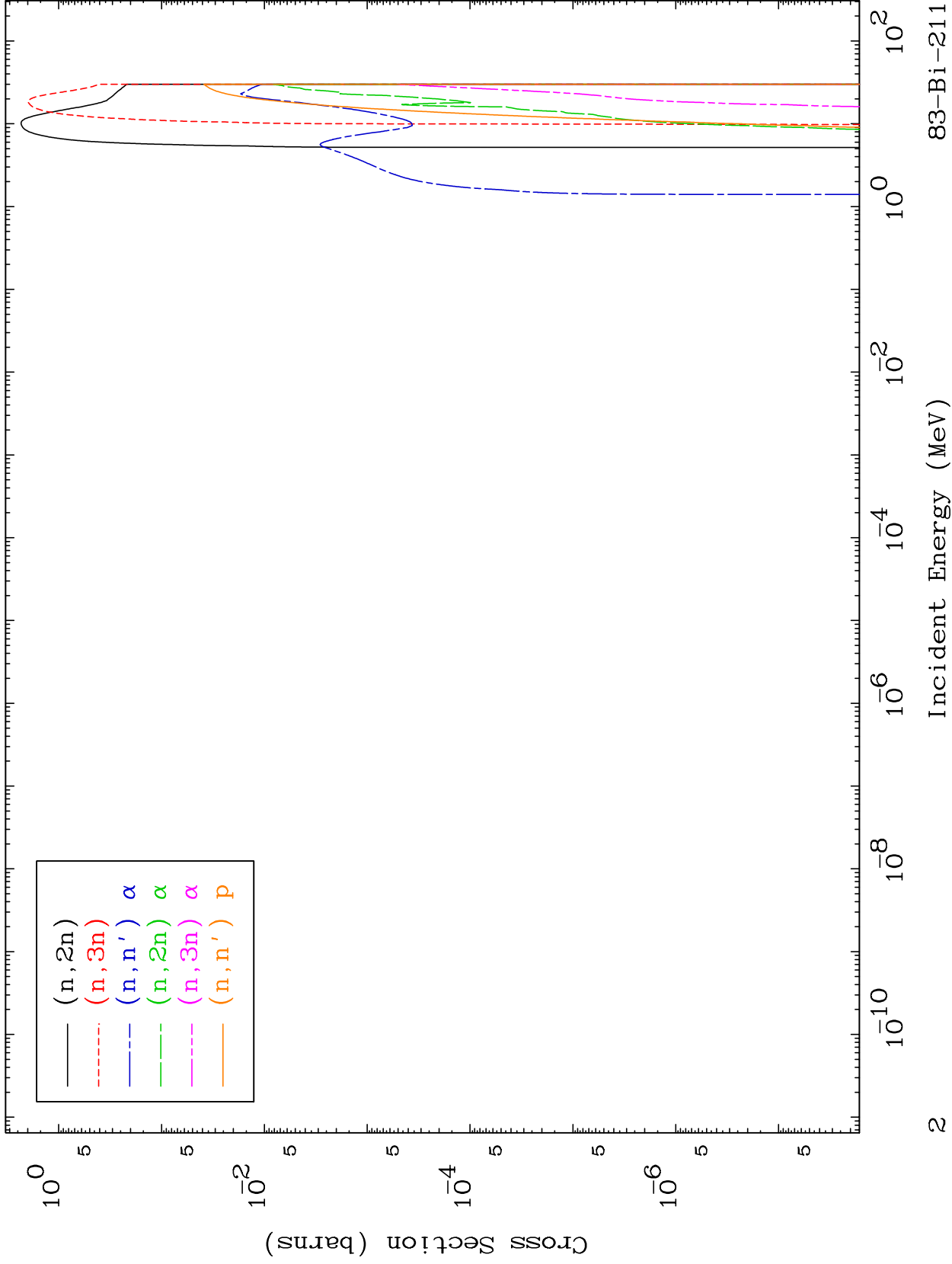
83-Bi-211

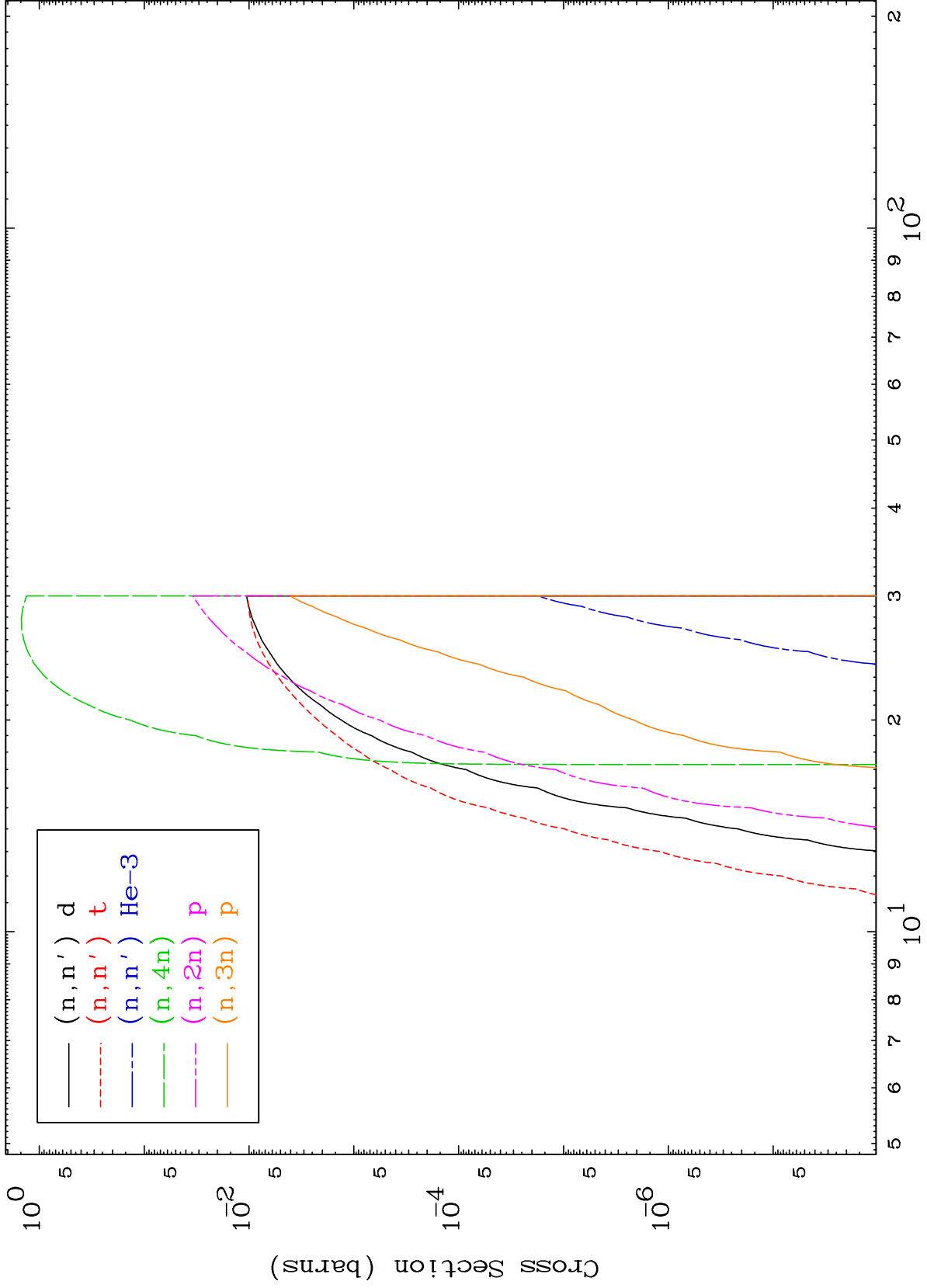


MAT 8331

Neutron Production
293 Kelvin Cross Sections

83-Bi-211

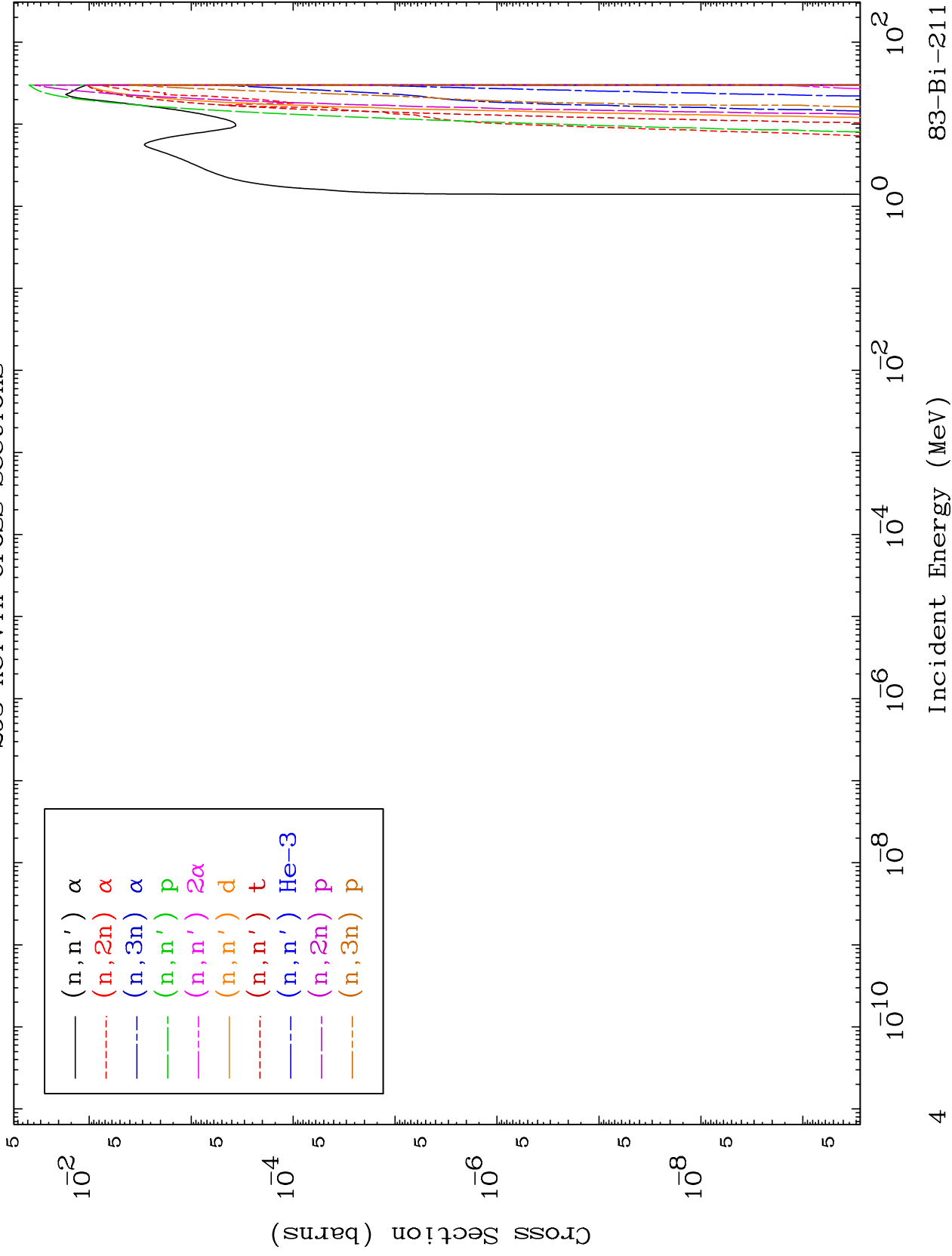




MAT 8331

Charged Particle
293 Kelvin Cross Sections

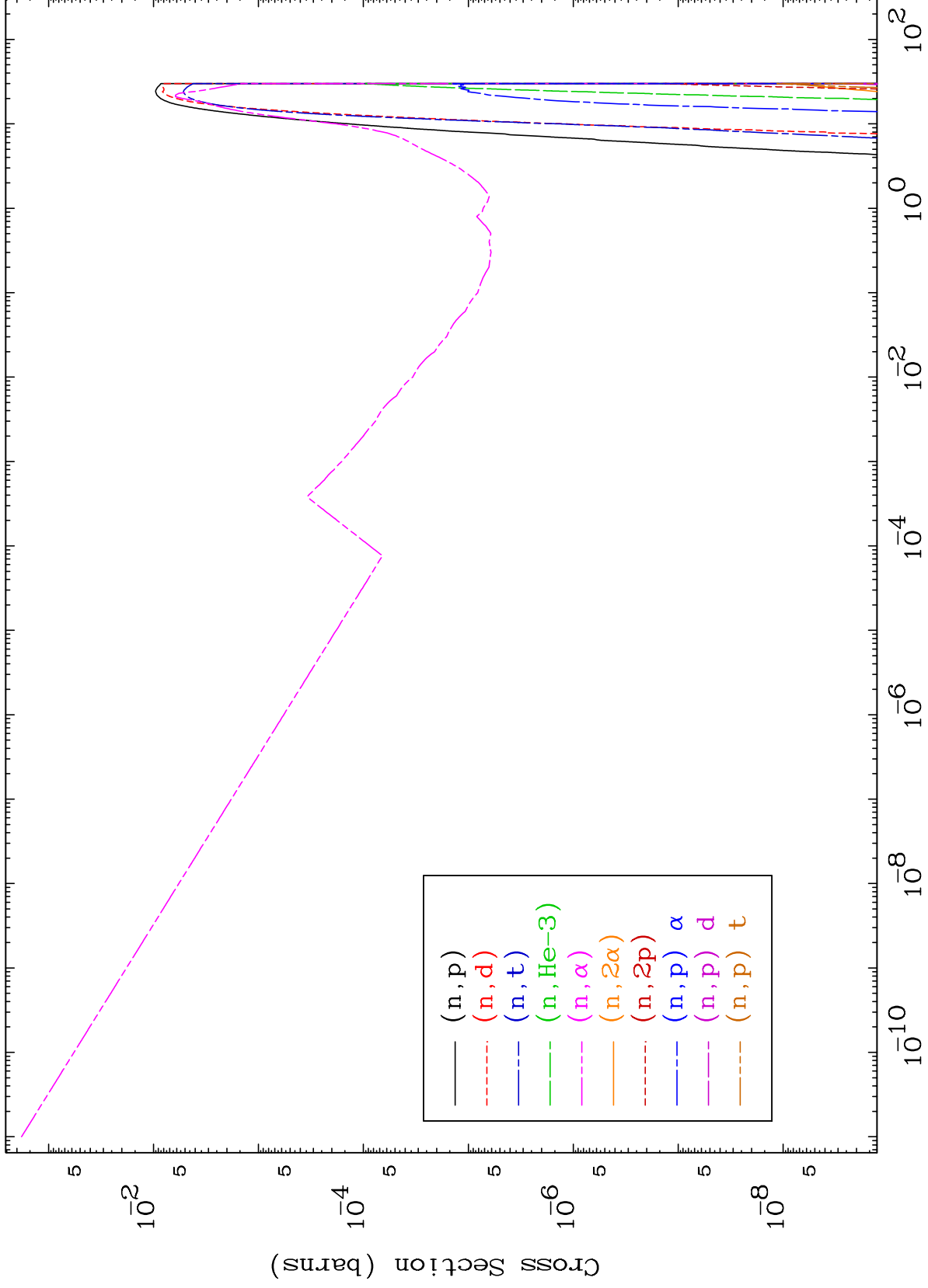
83-Bi-211



MAT 8331

Charged Particle
293 Kelvin Cross Sections

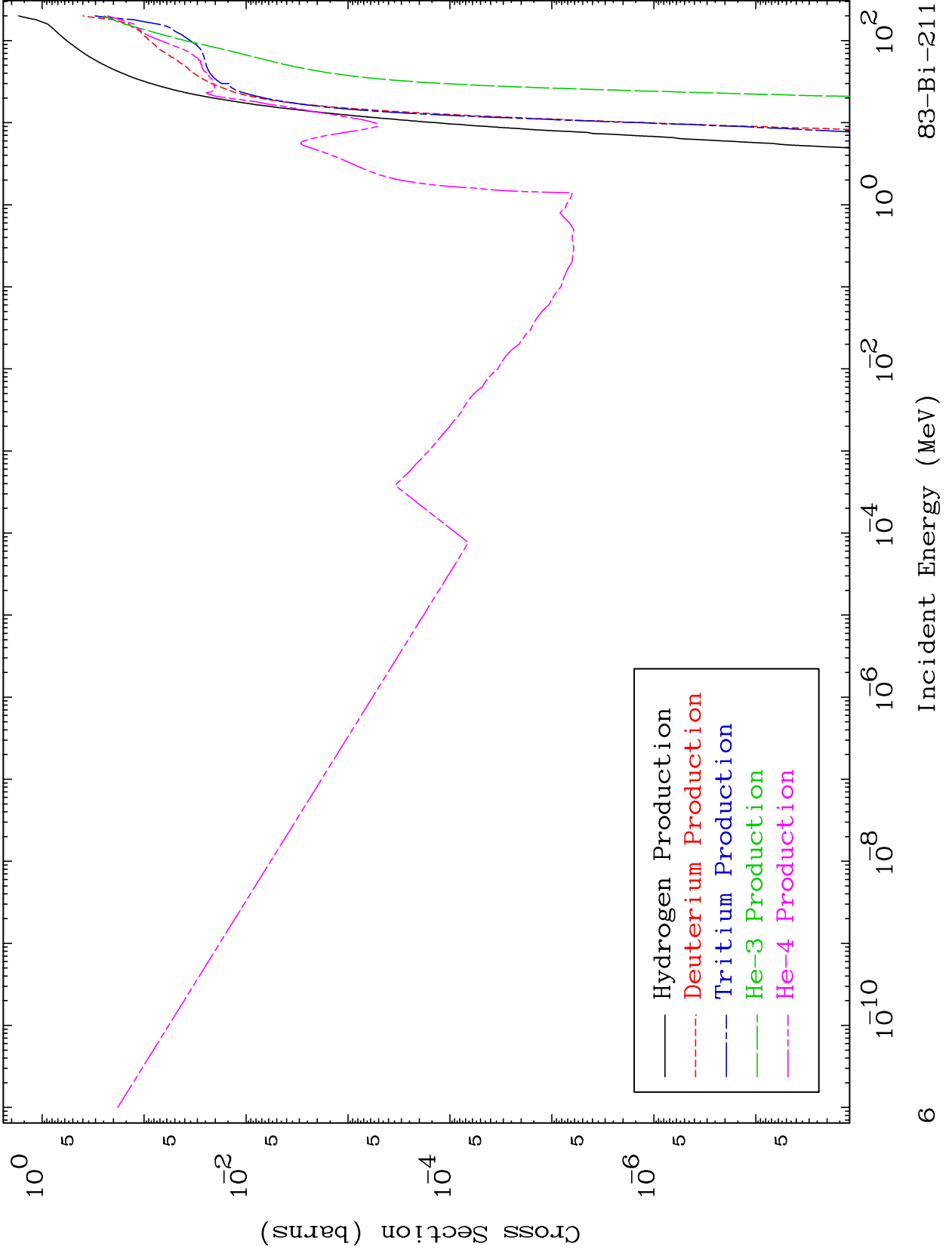
83-Bi-211



5

Incident Energy (MeV)

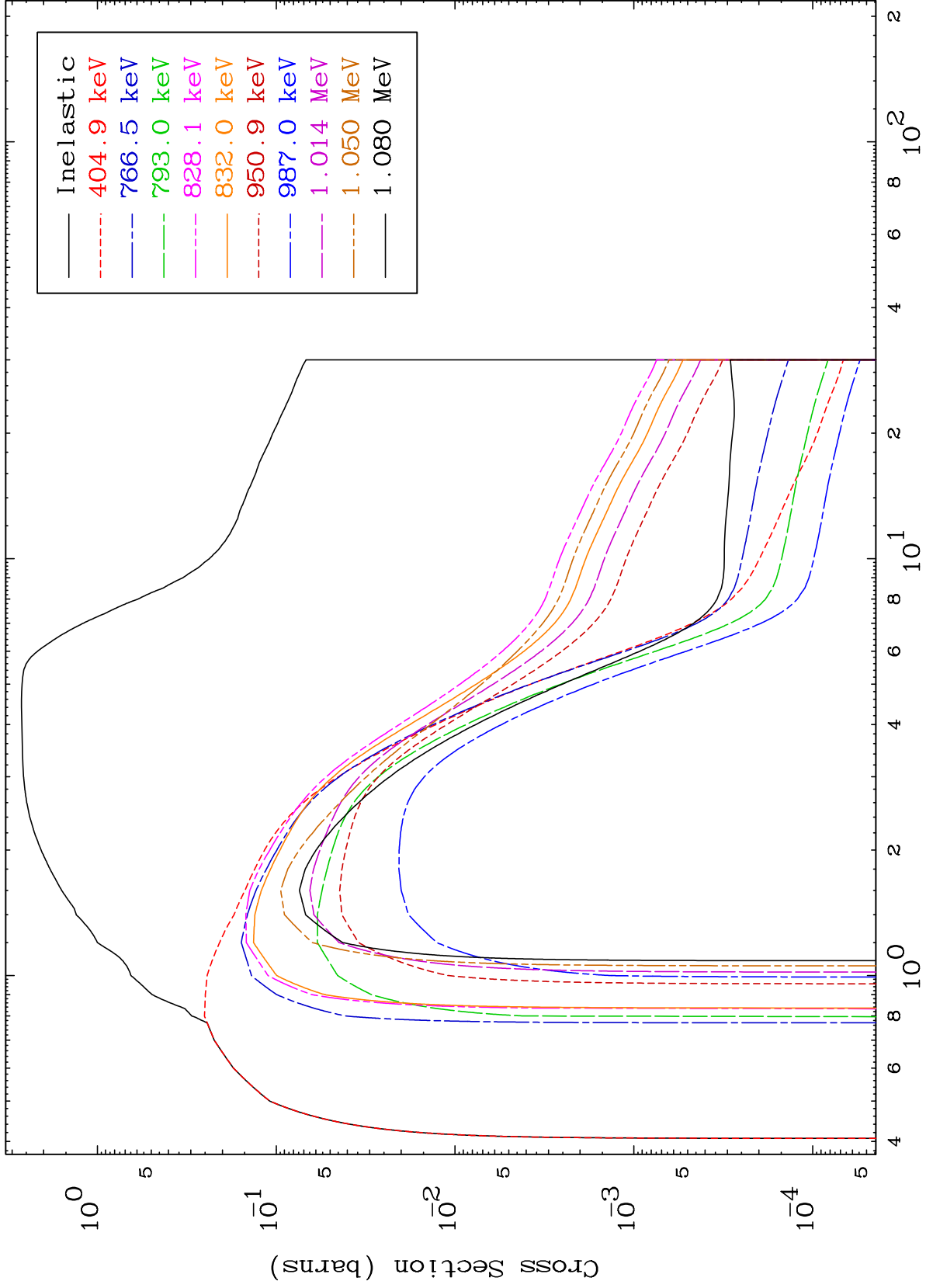
83-Bi-211



MAT 8331

(n,n') Level
293 Kelvin Cross Sections

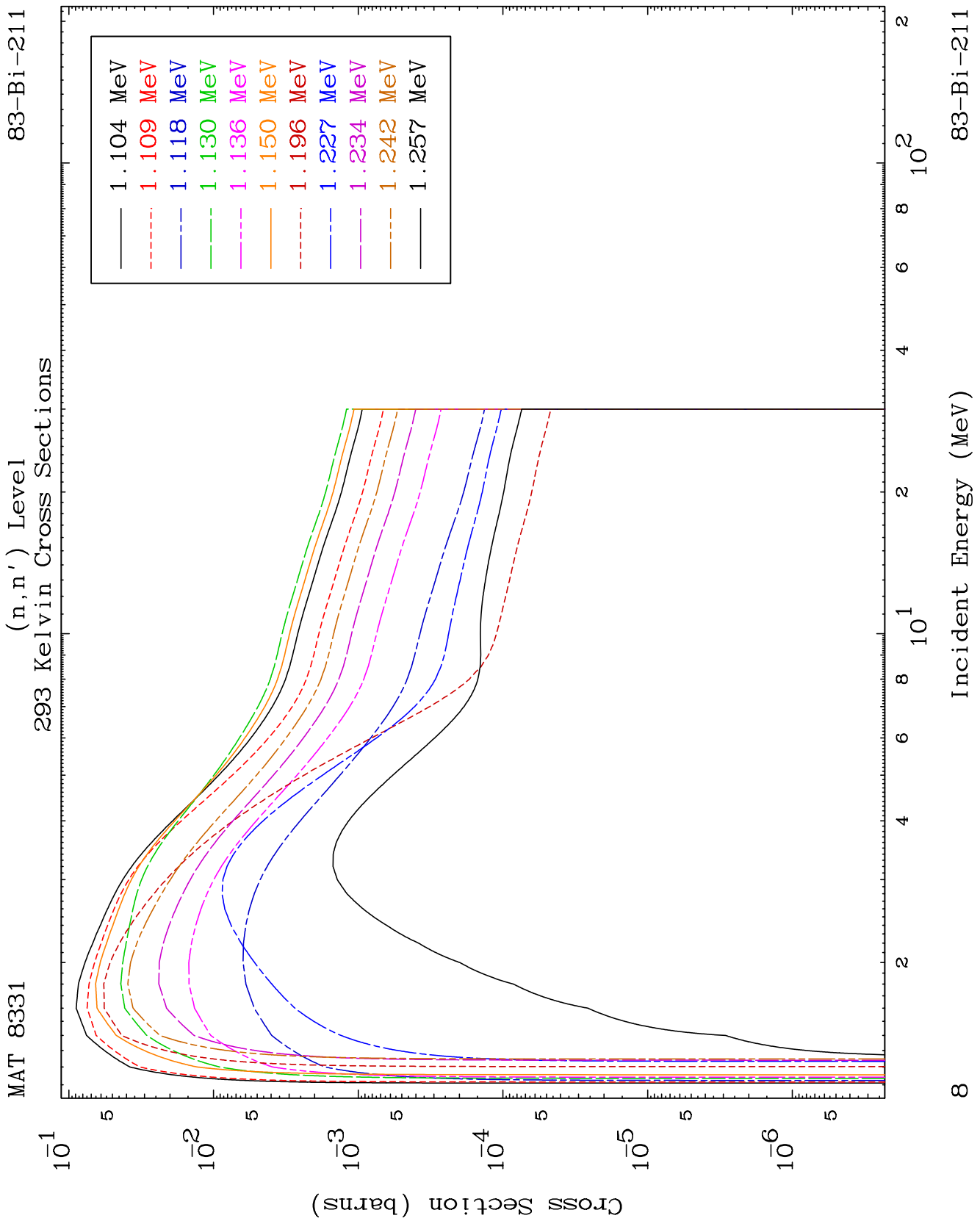
83-Bi-211



7

Incident Energy (MeV)

83-Bi-211

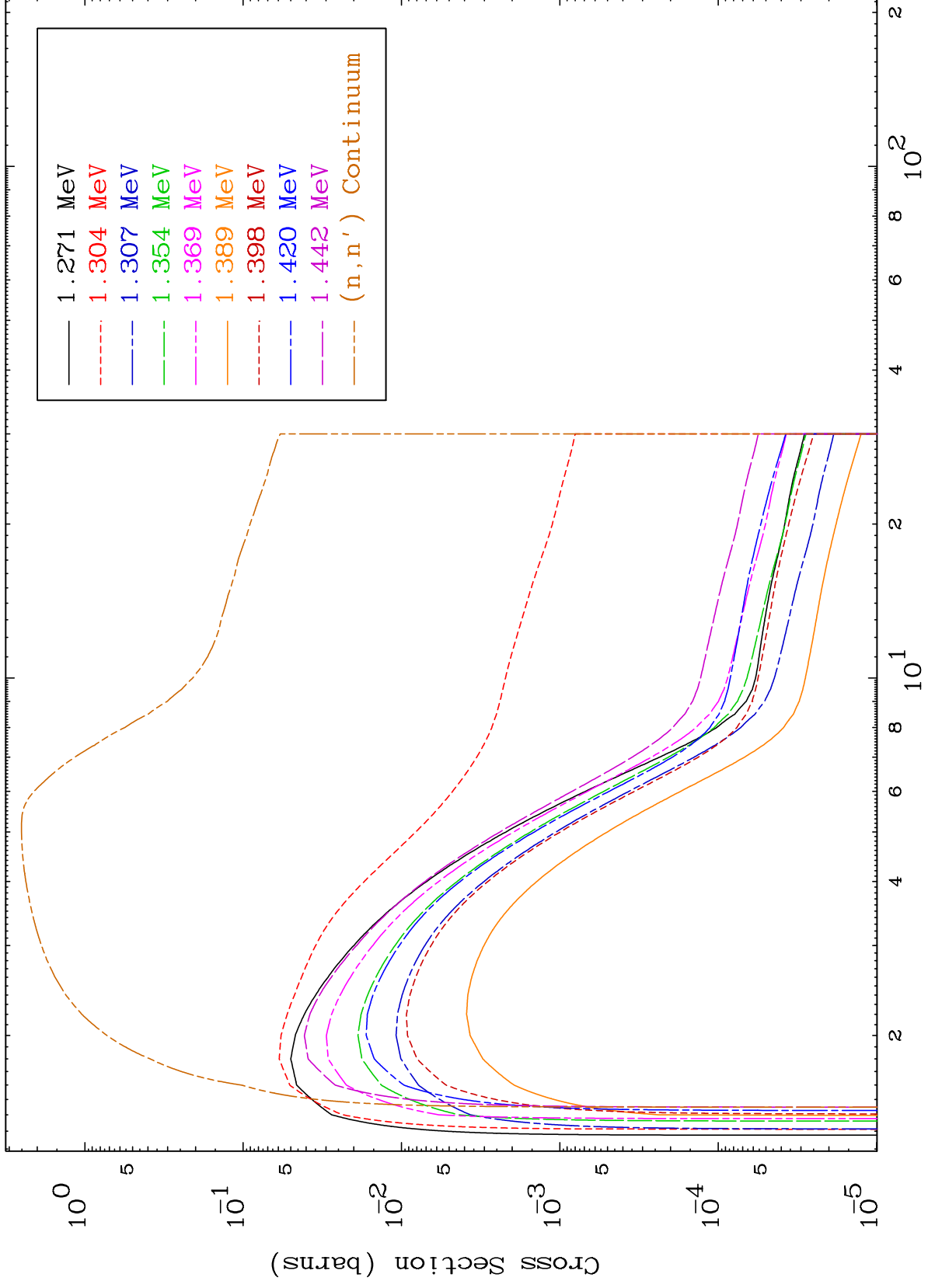


MAT 8331

(n,n') Level

83-Bi-211

293 Kelvin Cross Sections



9

Incident Energy (MeV)

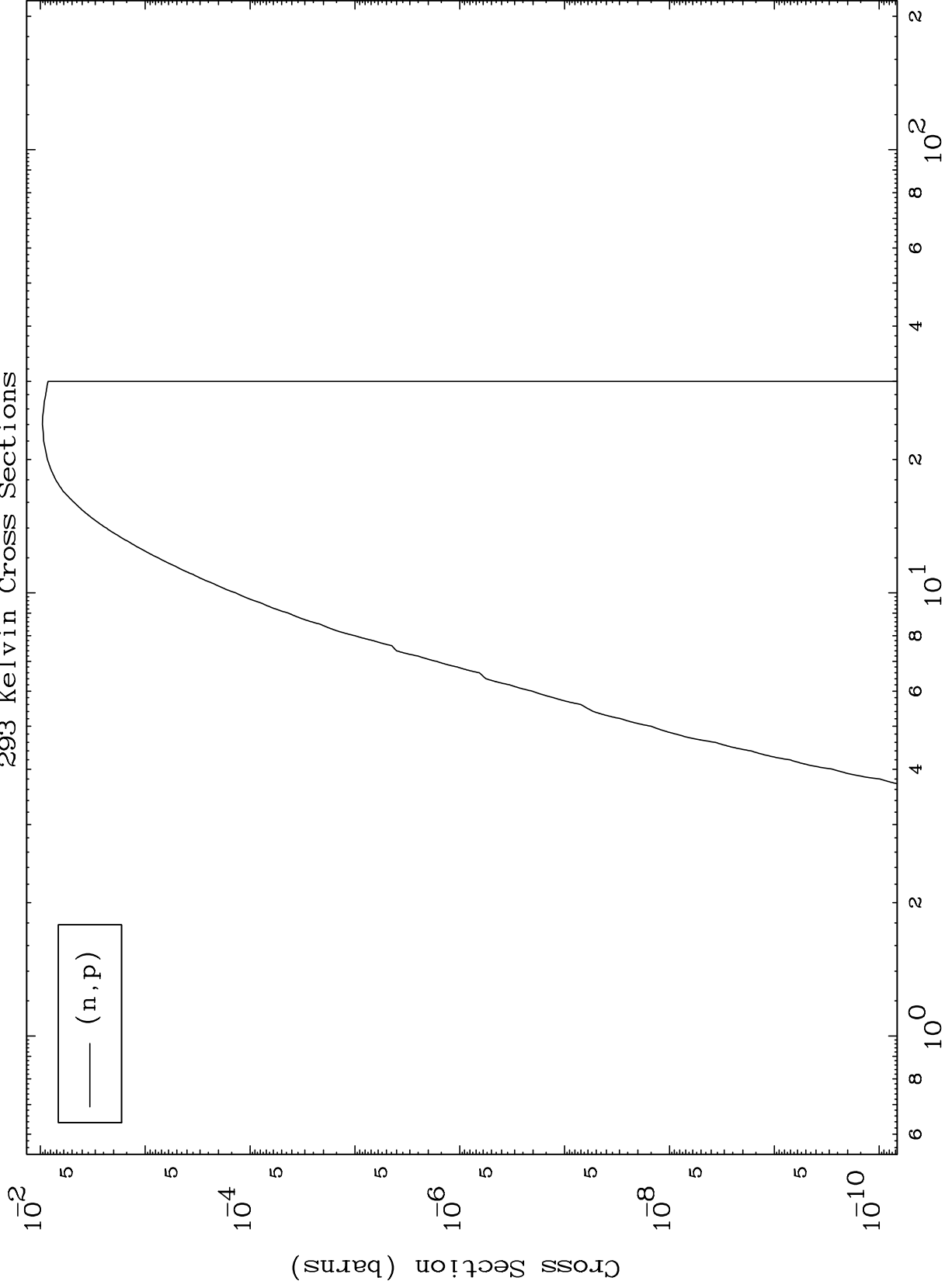
83-Bi-211

MAT 8331

(n,p) Levels

83-Bi-211

293 Kelvin Cross Sections



10

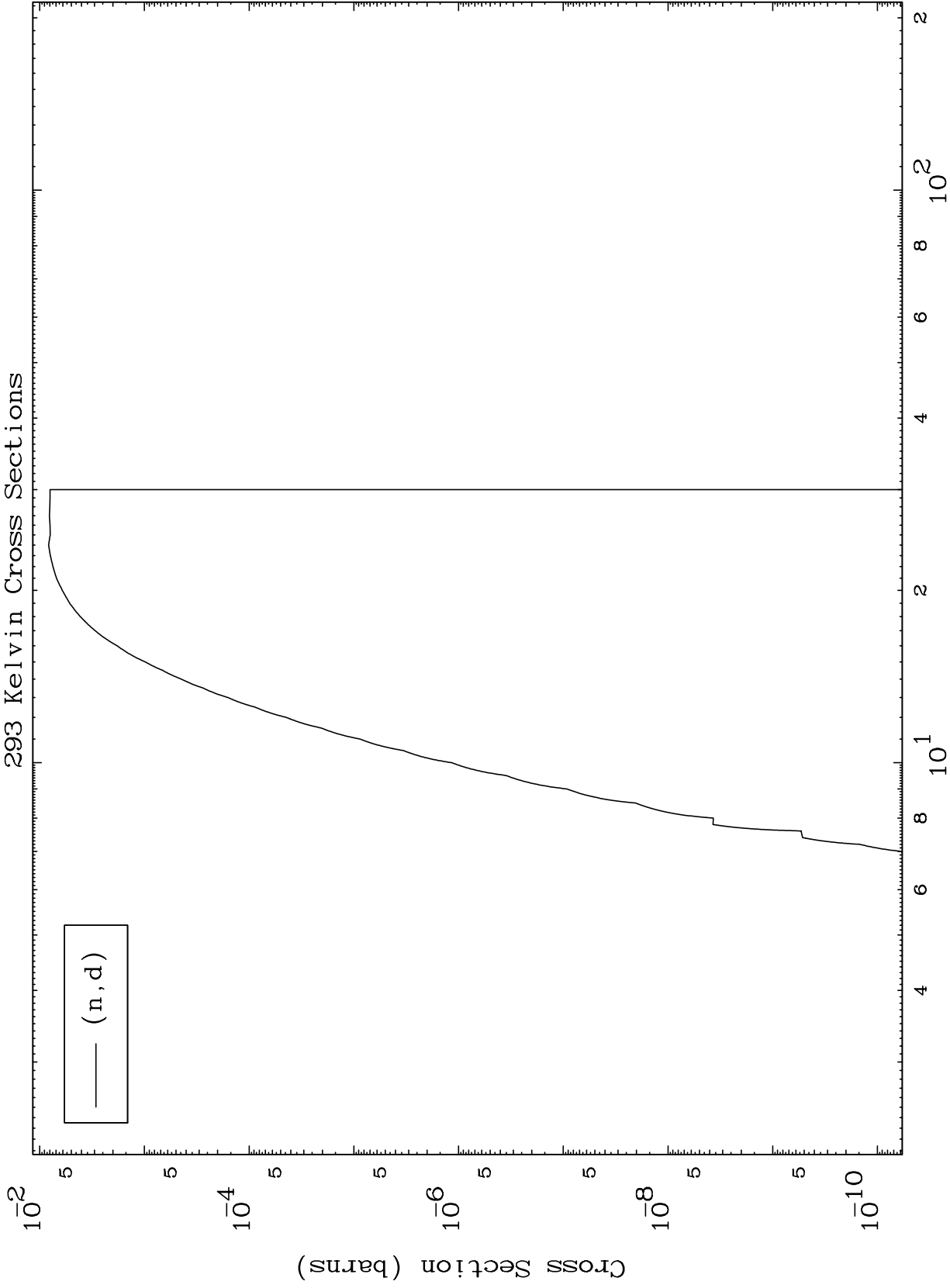
Incident Energy (MeV)

83-Bi-211

MAT 8331

(n,d) Levels
293 Kelvin Cross Sections

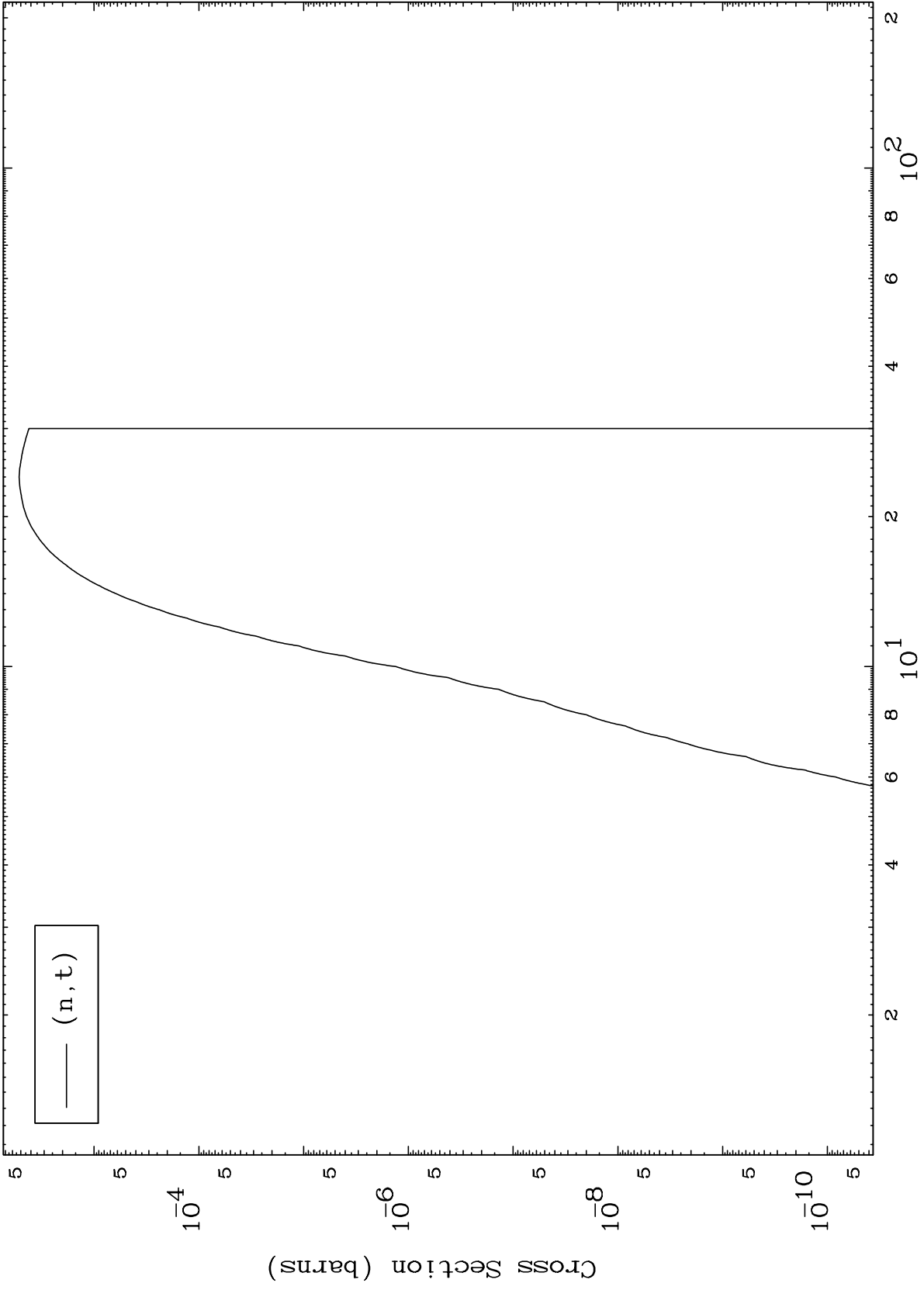
83-Bi-211



MAT 8331

(n,t) Levels
293 Kelvin Cross Sections

83-Bi-211



12

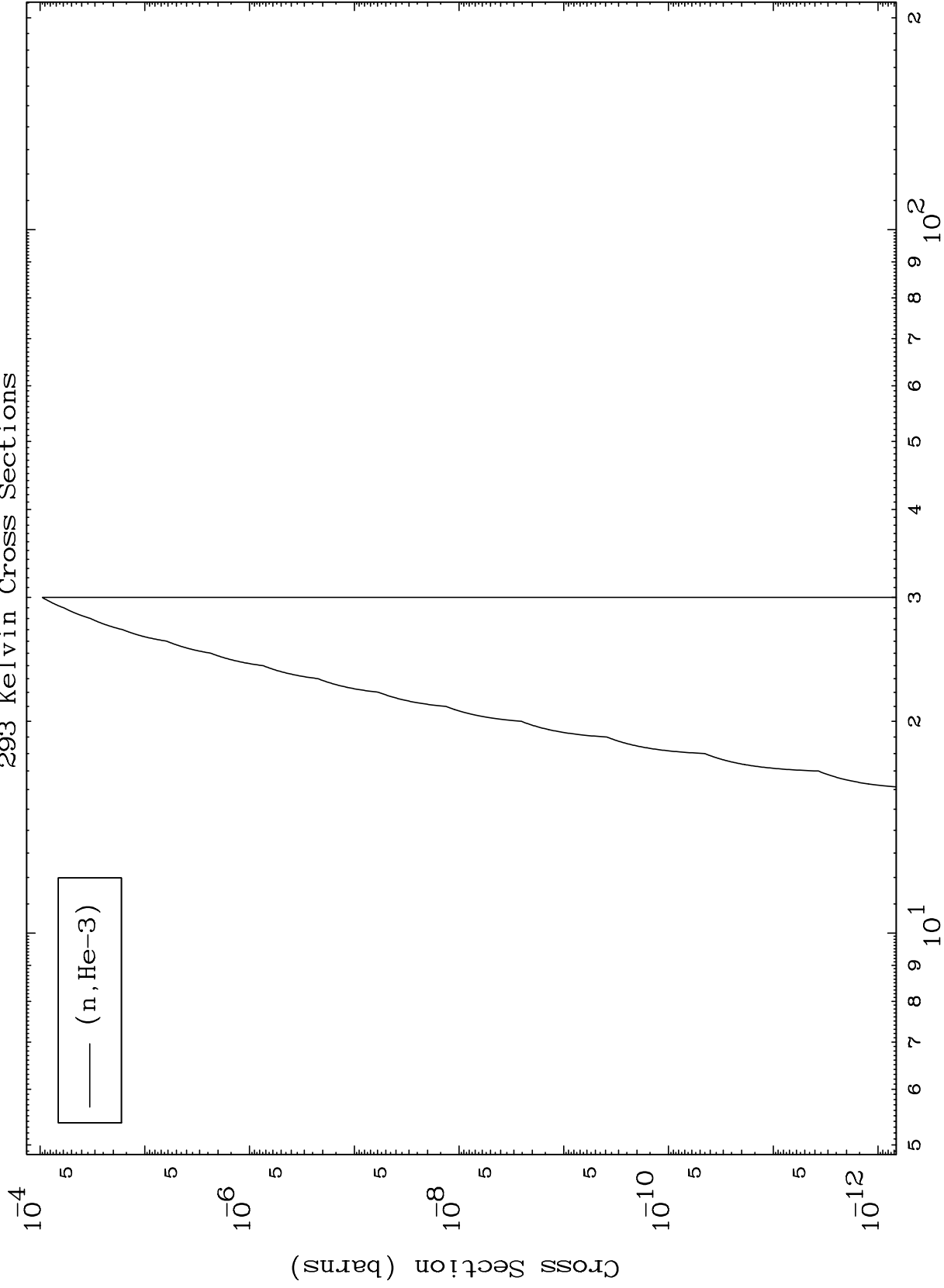
Incident Energy (MeV)

83-Bi-211

MAT 8331

(n,He3) Levels
293 Kelvin Cross Sections

83-Bi-211



13

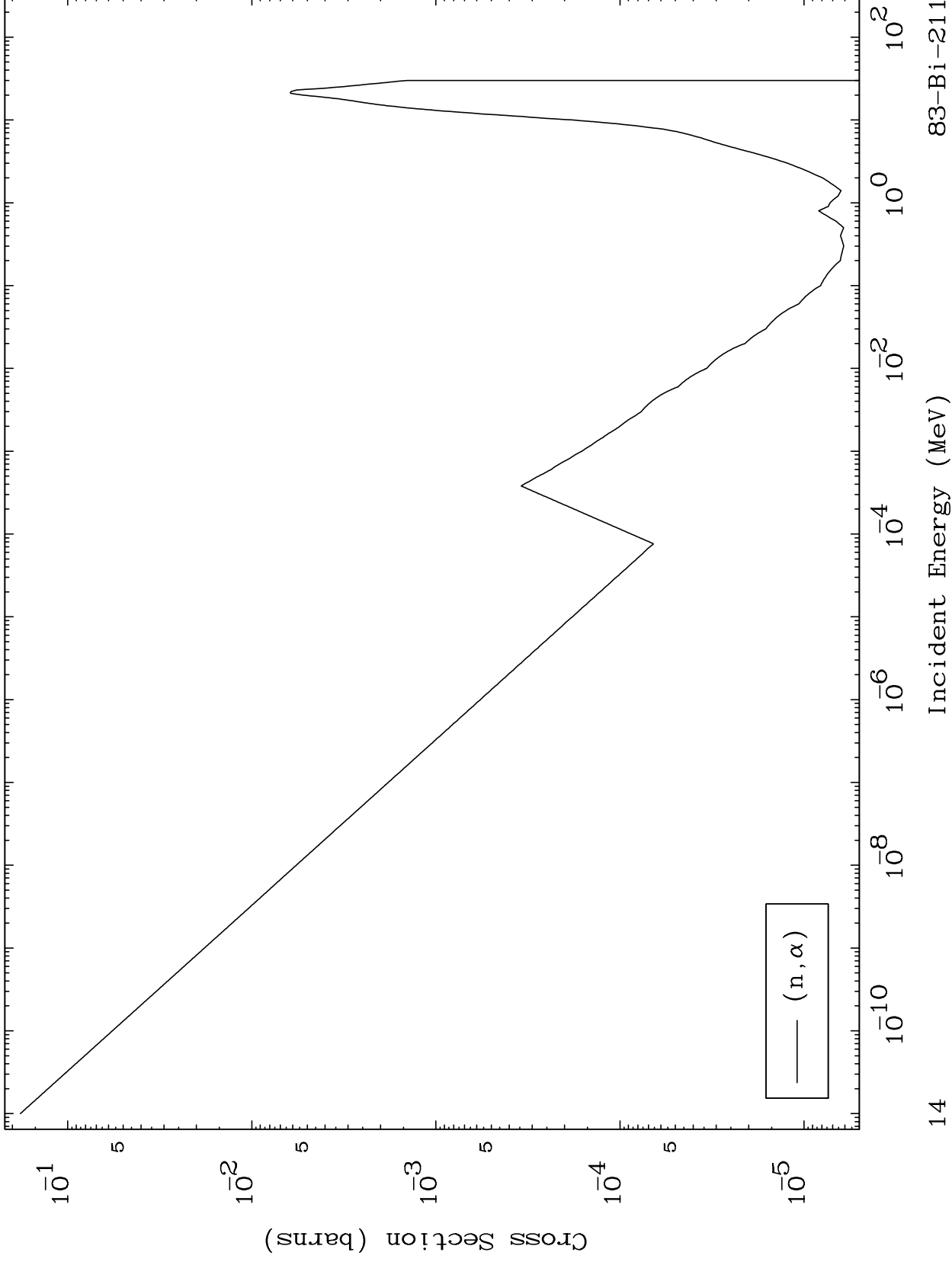
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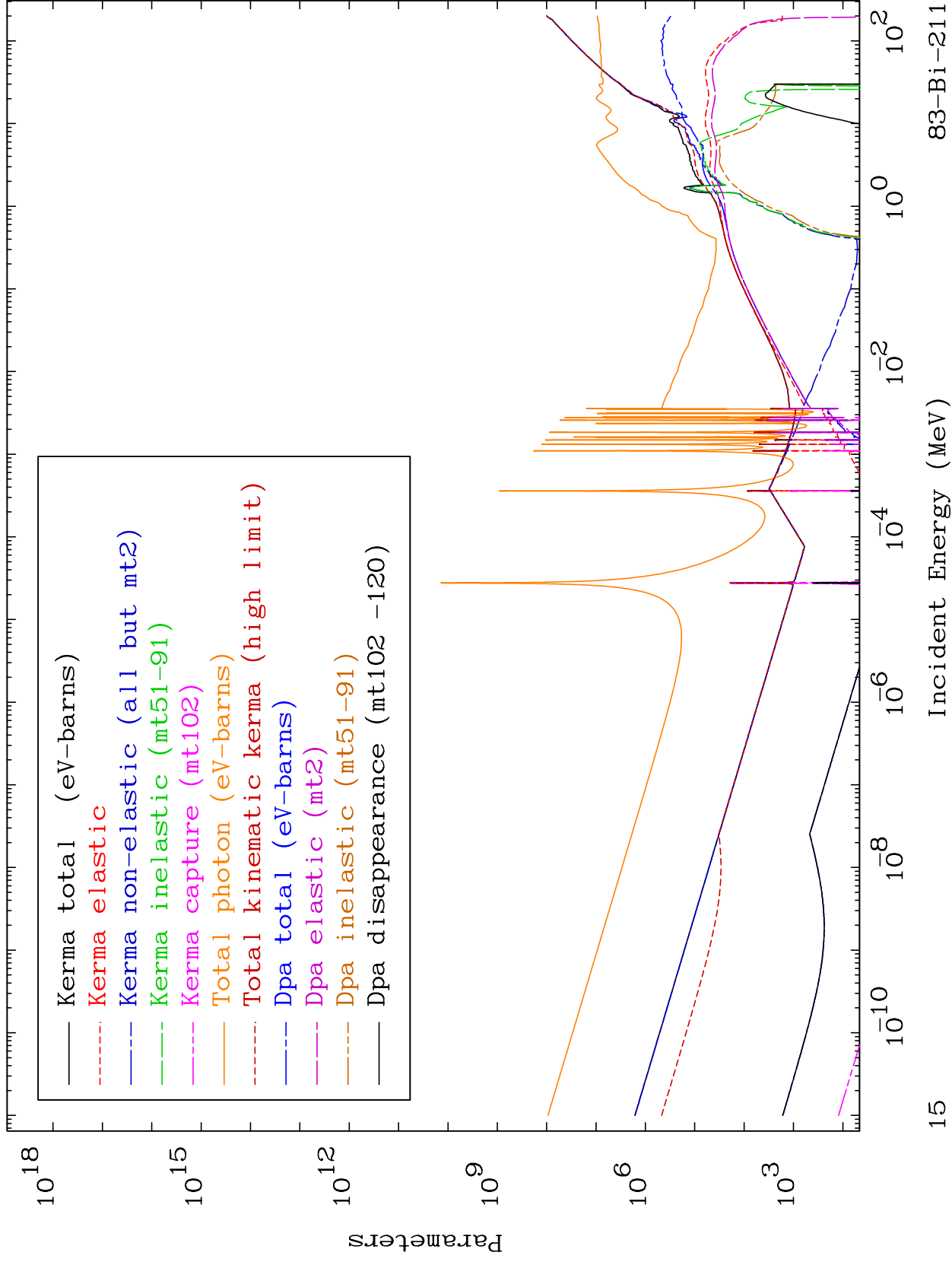
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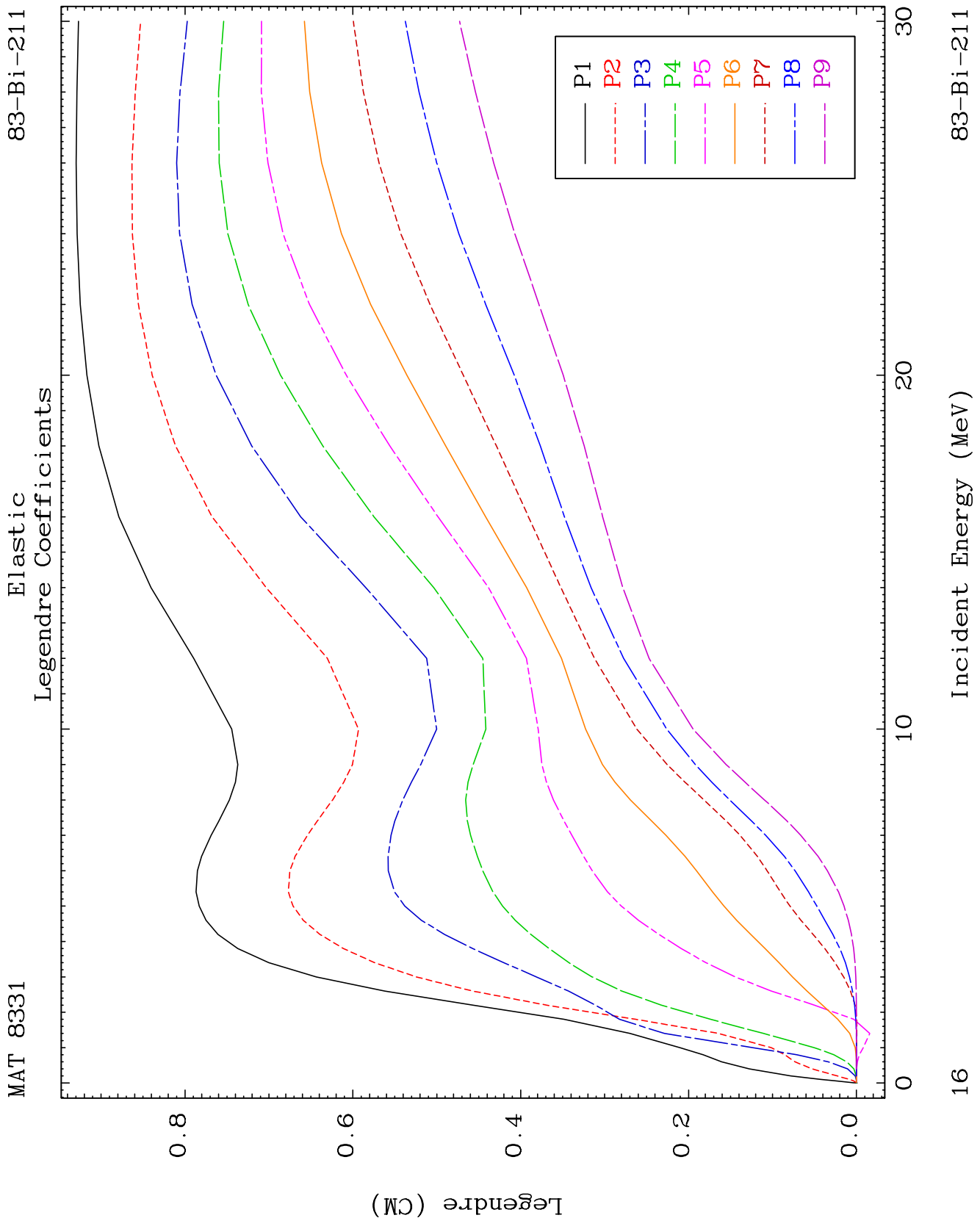
MAT 8331

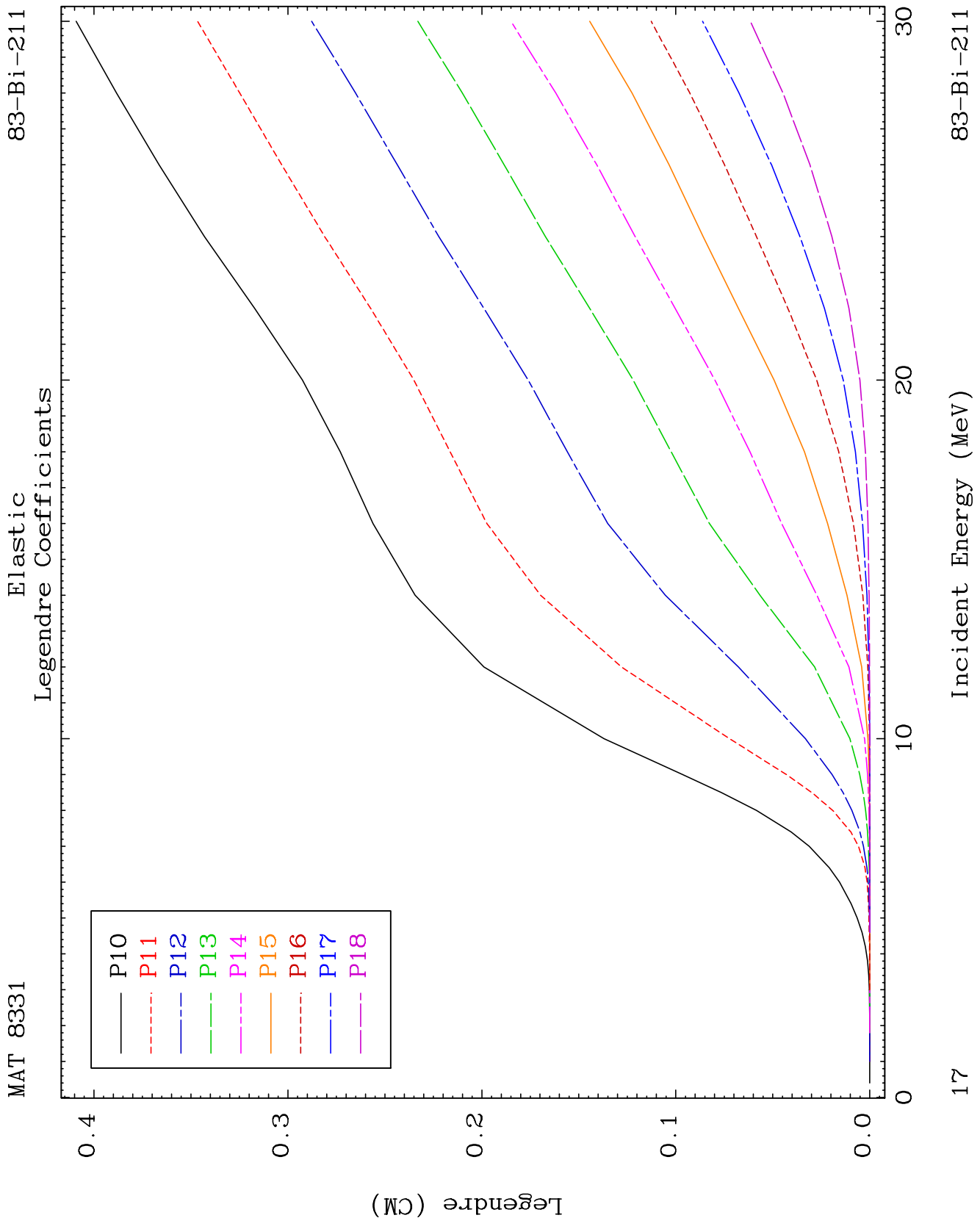
(n,α) Levels
293 Kelvin Cross Sections

83-Bi-211





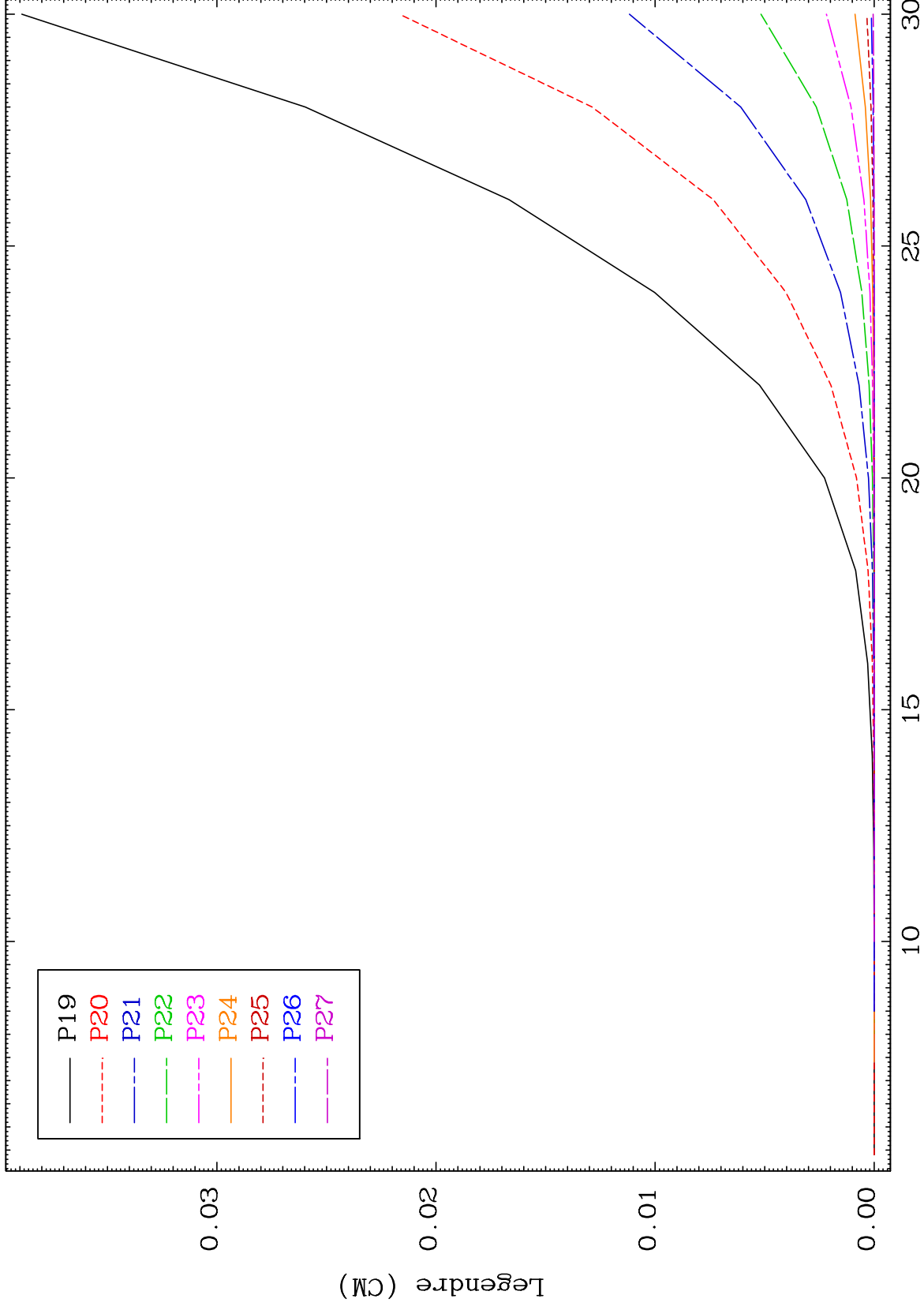




MAT 8331

Elastic Legendre Coefficients

83-Bi-211



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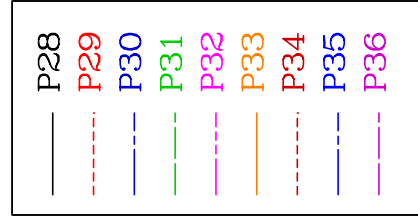
Incident Energy (MeV)

83-Bi-211

MAT 8331

Elastic
Legendre Coefficients

83-Bi-211



$\times 10^{-5}$

Legendre (CM)

1.0

0.5

0.0

15

20

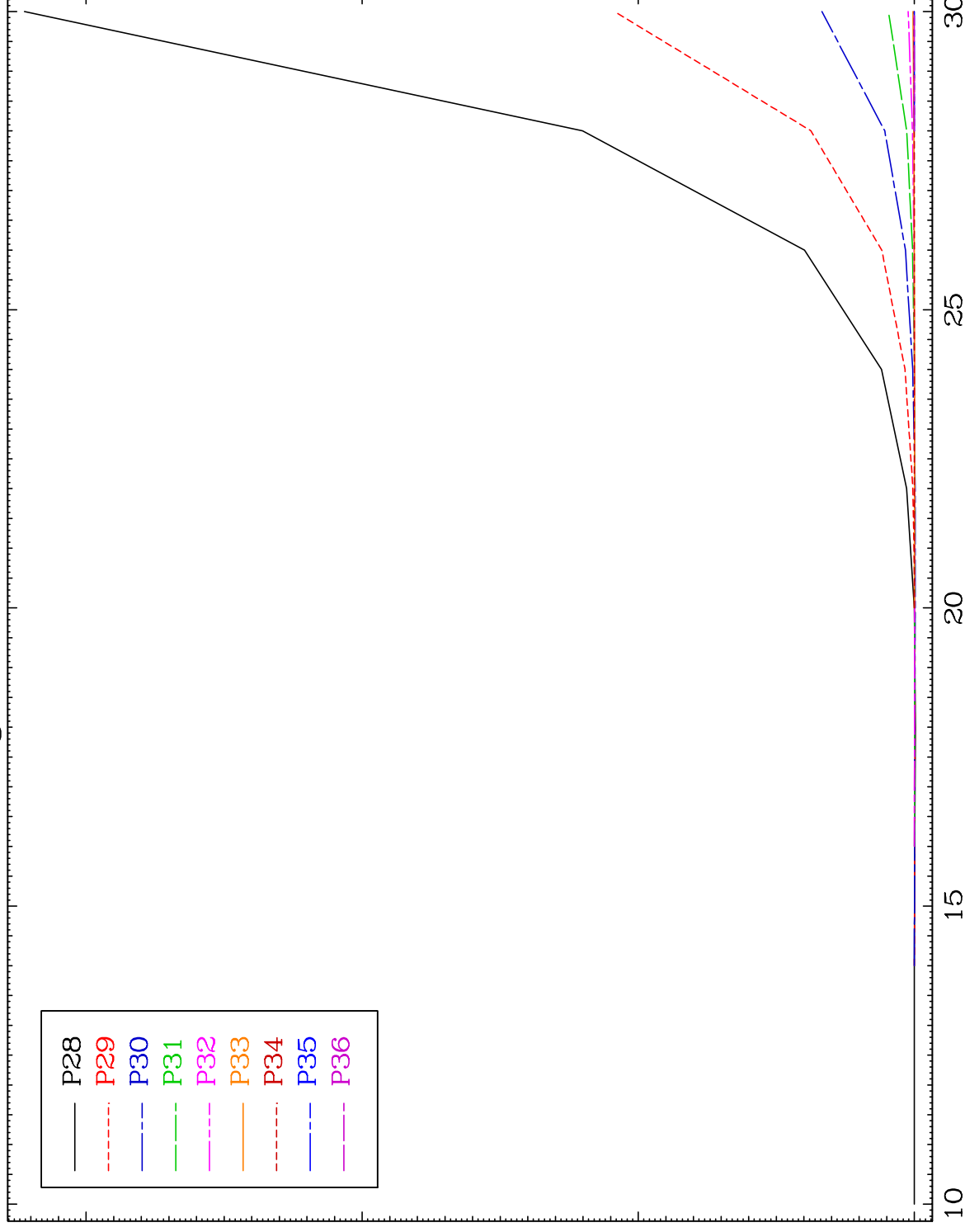
25

30

19

Incident Energy (MeV)

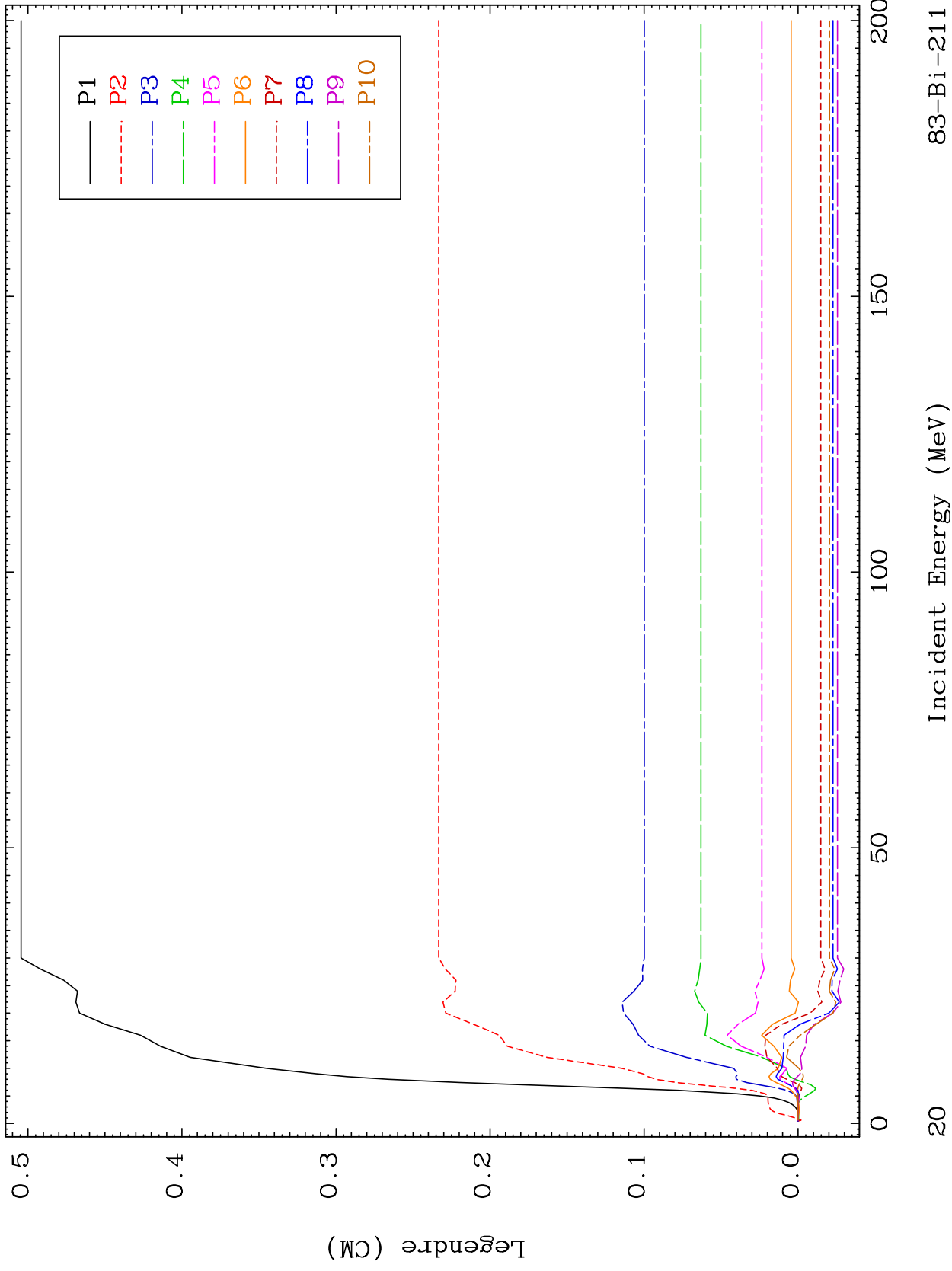
83-Bi-211



MAT 8331

404.9 keV (n,n') Level
Legendre Coefficients

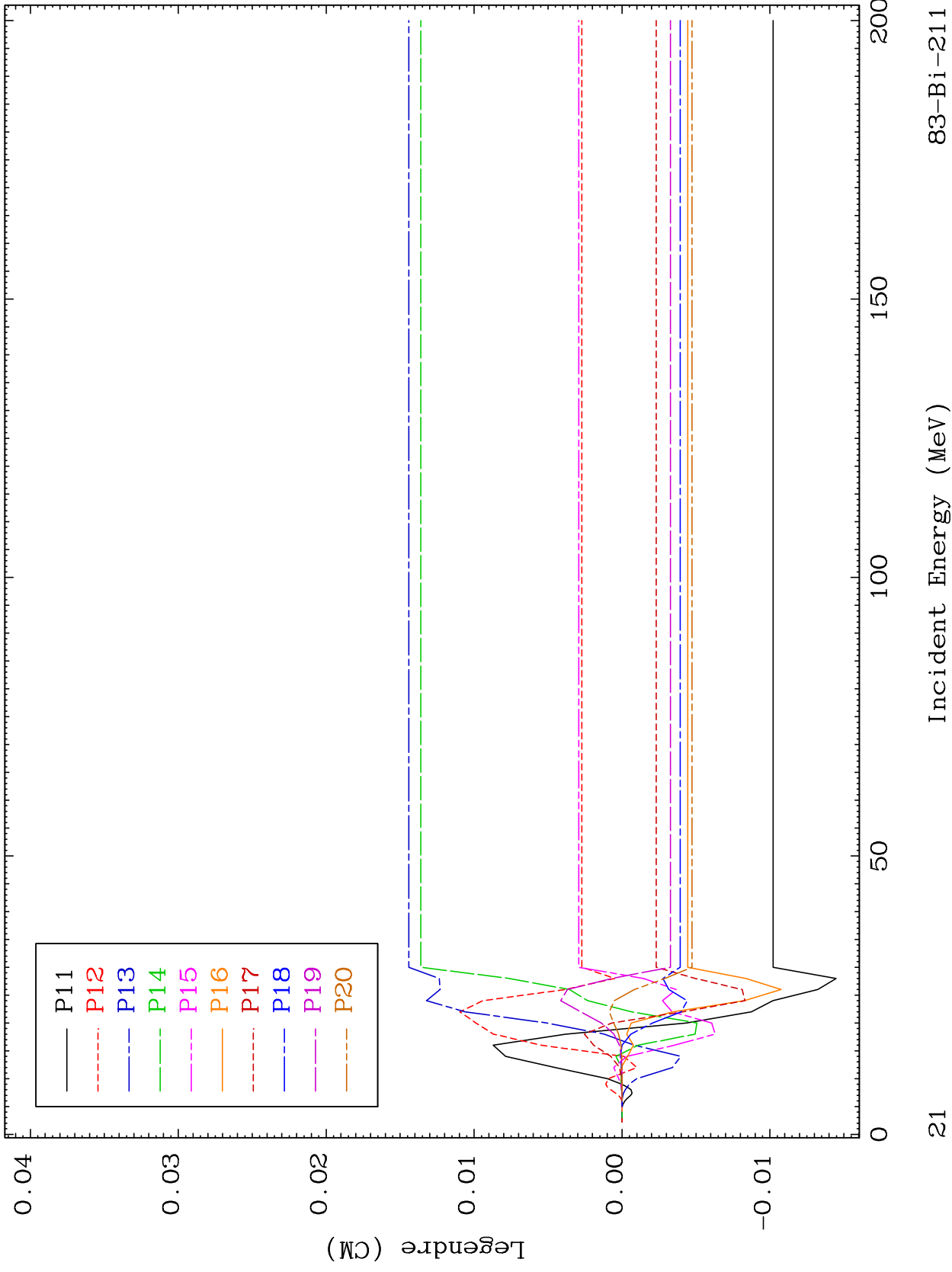
83-Bi-211



MAT 8331

404.9 keV (n,n') Level
Legendre Coefficients

83-Bi-211



21

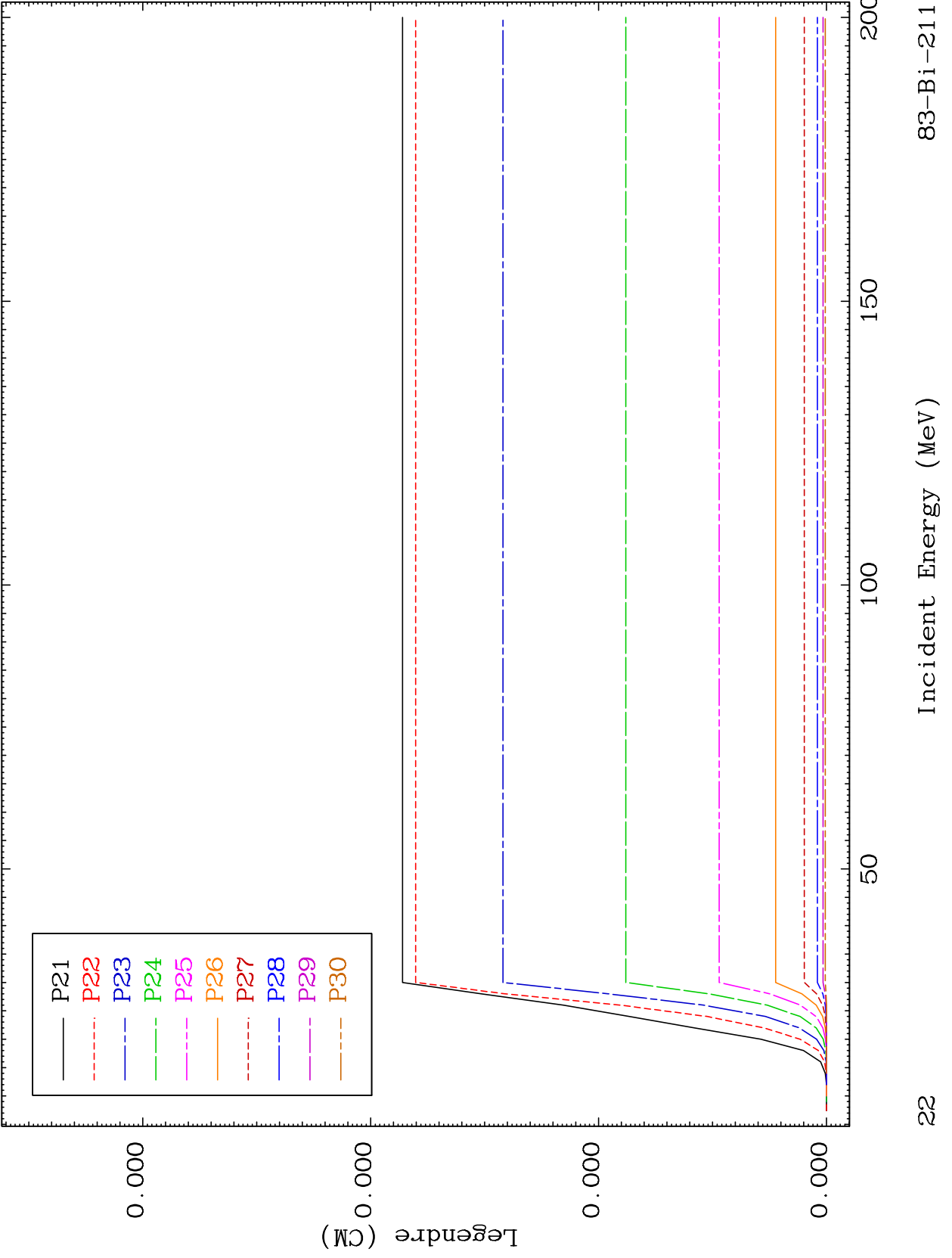
Incident Energy (MeV)

83-Bi-211

MAT 8331

404.9 keV (n,n') Level
Legendre Coefficients

83-Bi-211



22

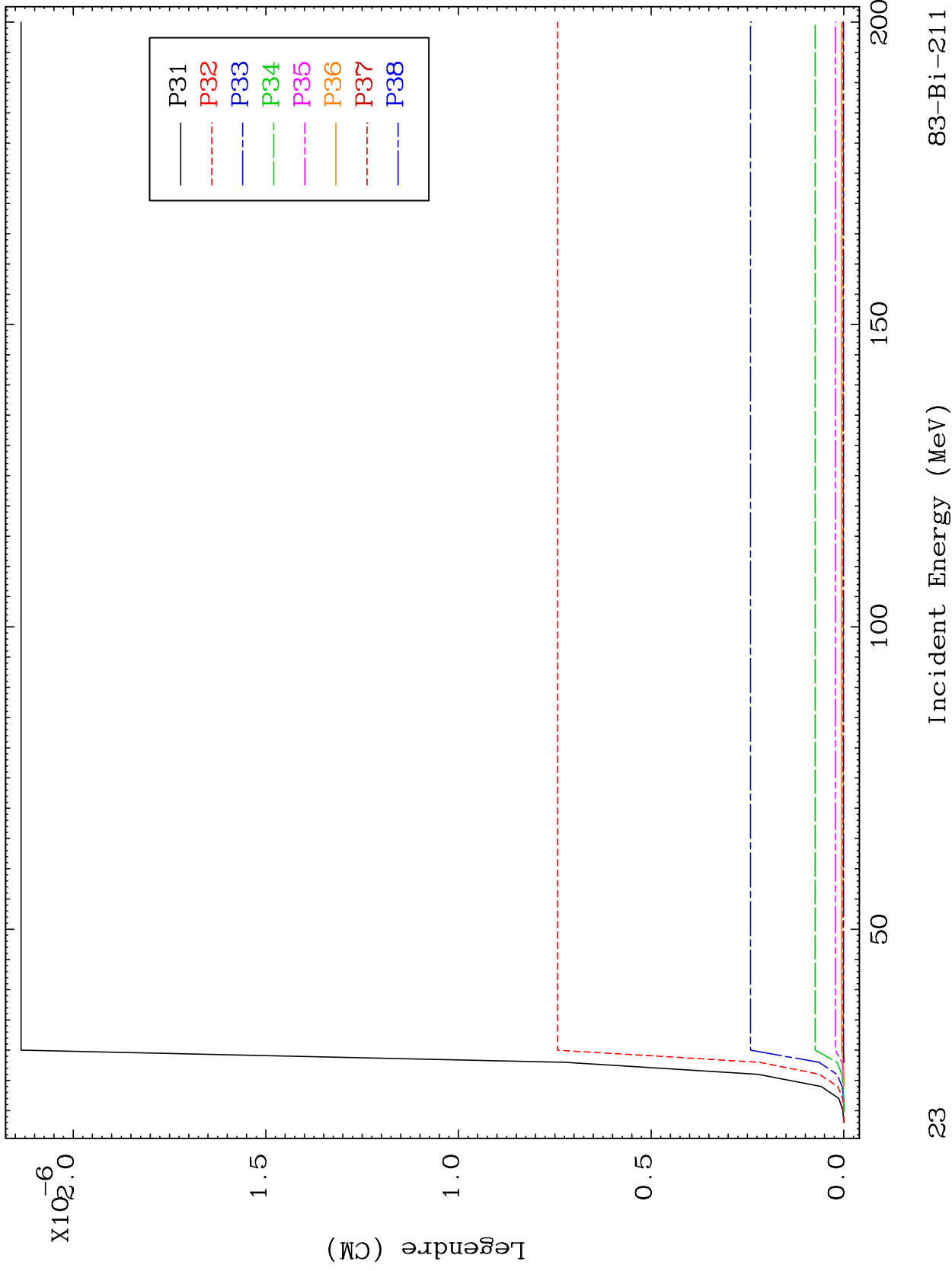
Incident Energy (MeV)

83-Bi-211

MAT 8331

404.9 keV (n,n') Level
Legendre Coefficients

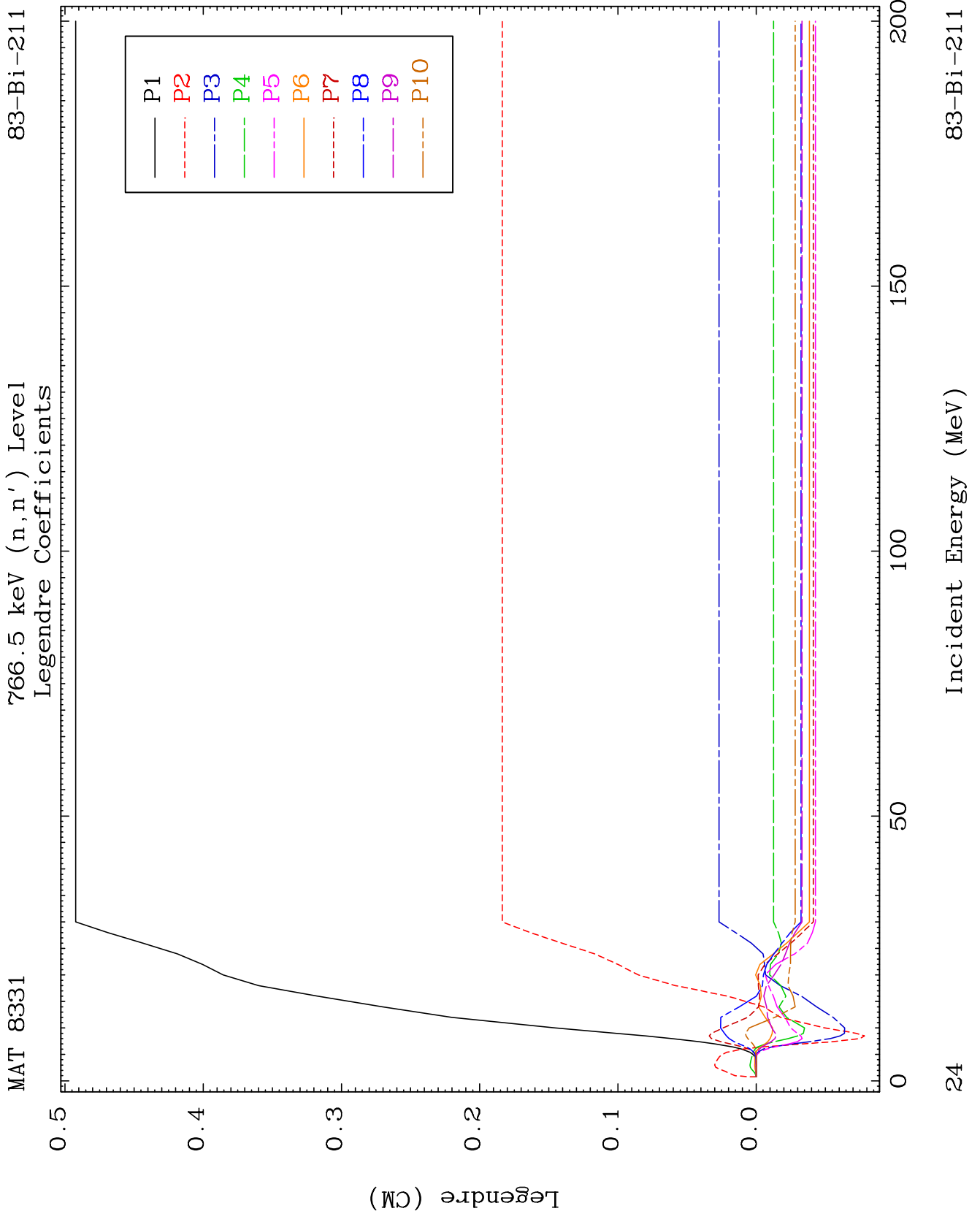
83-Bi-211



23

Incident Energy (MeV)

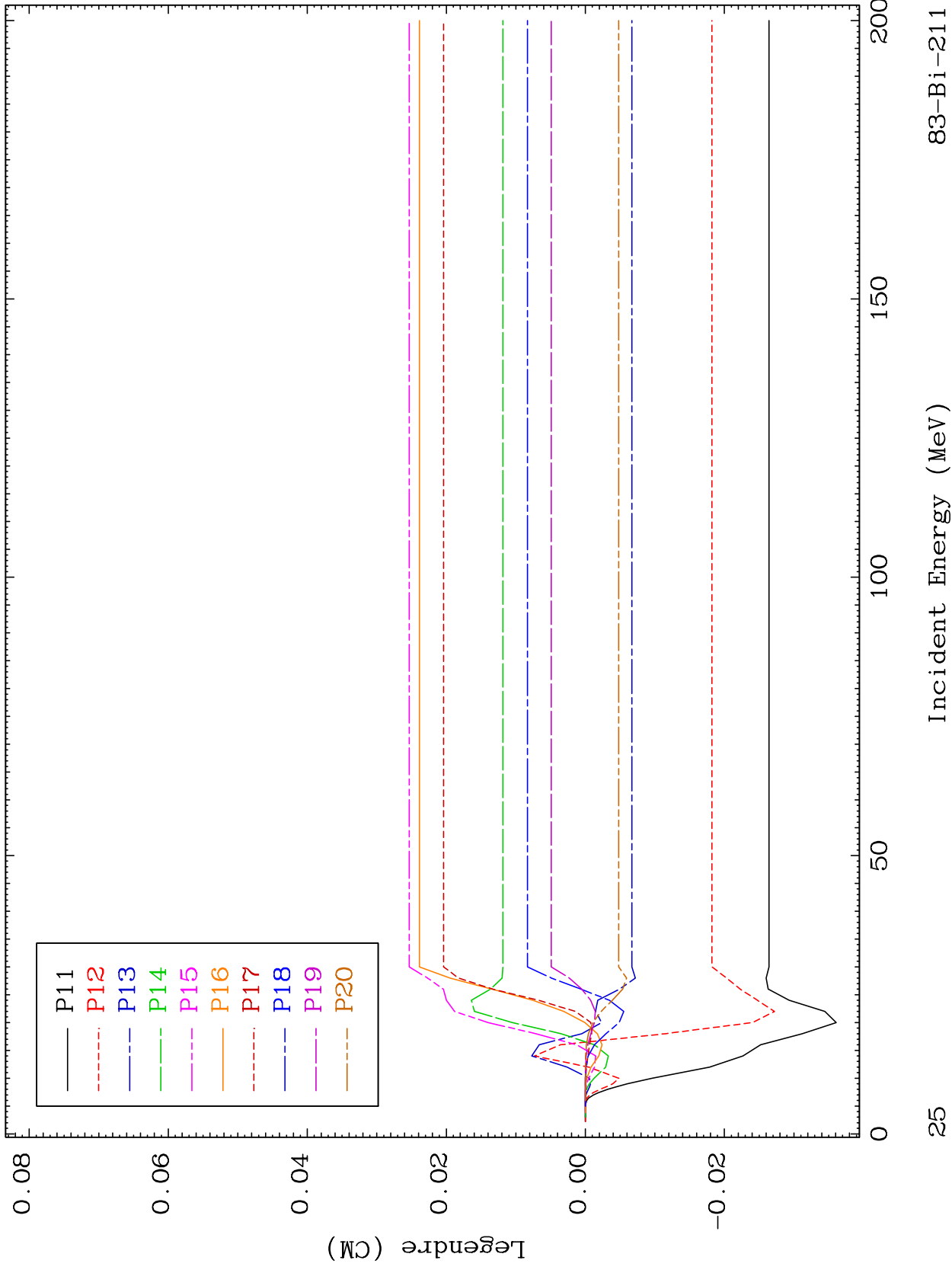
83-Bi-211



MAT 8331

766.5 keV (n,n') Level
Legendre Coefficients

83-Bi-211



83-Bi-211

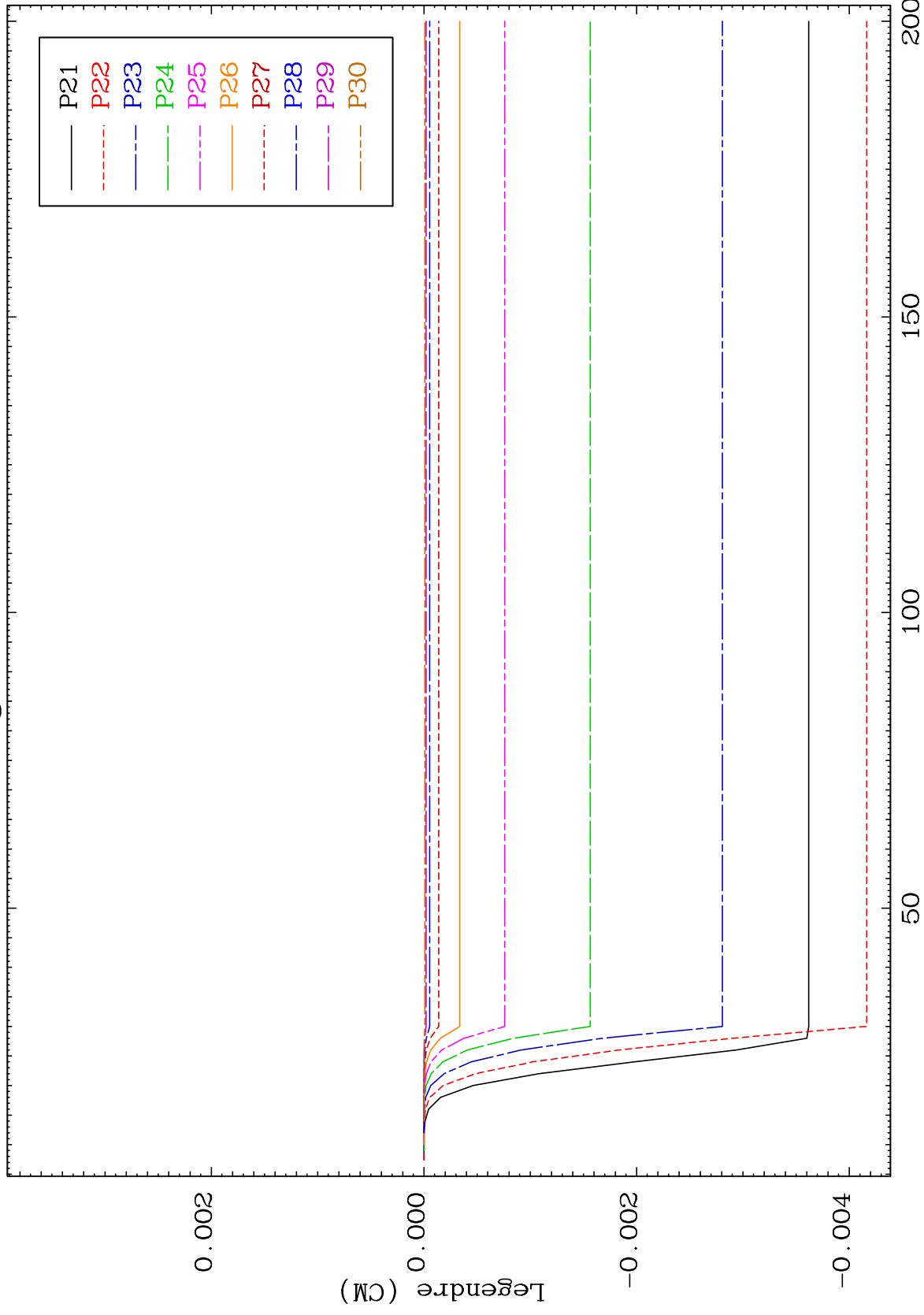
Incident Energy (MeV)

25

MAT 8331

766.5 keV (n,n') Level
Legendre Coefficients

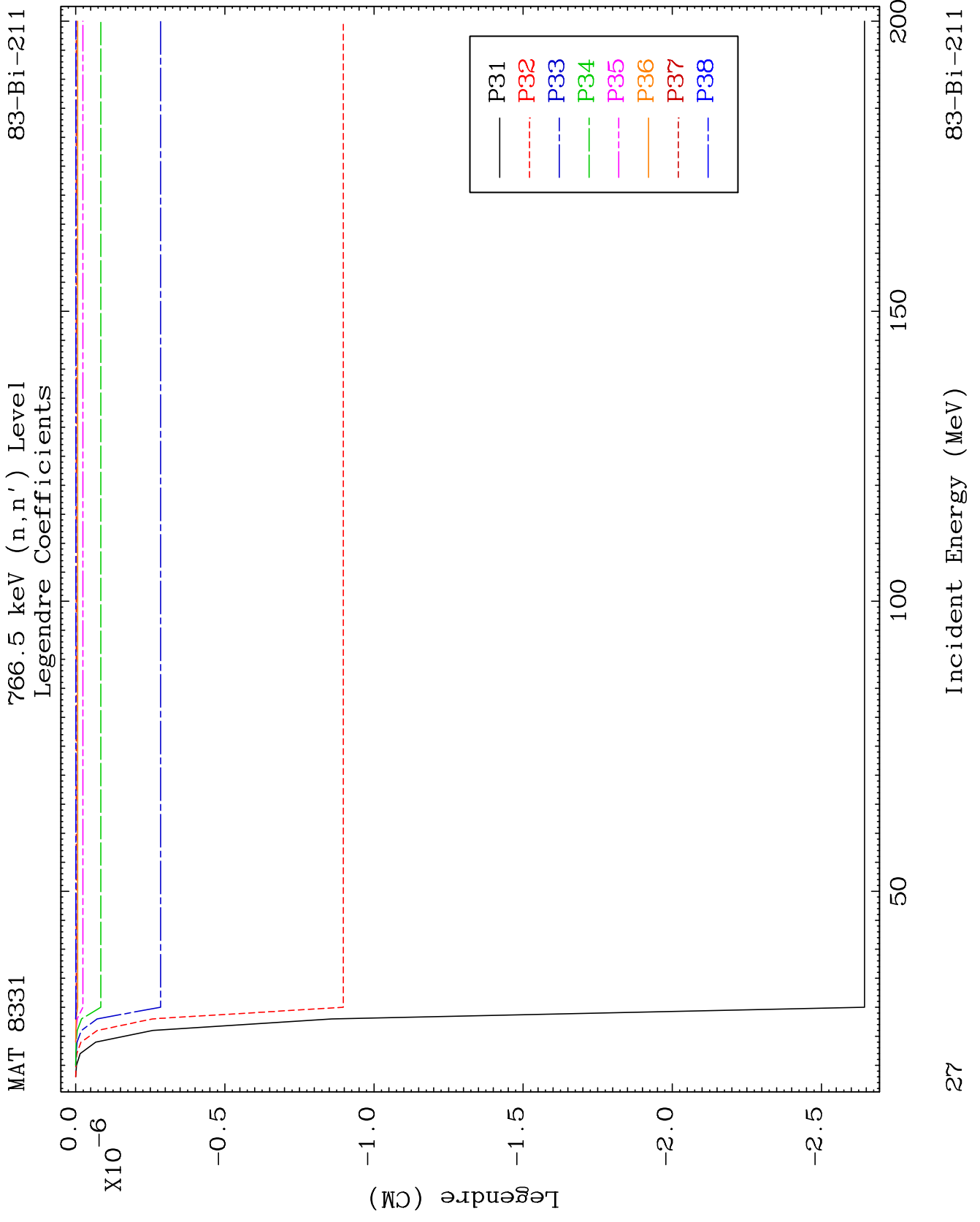
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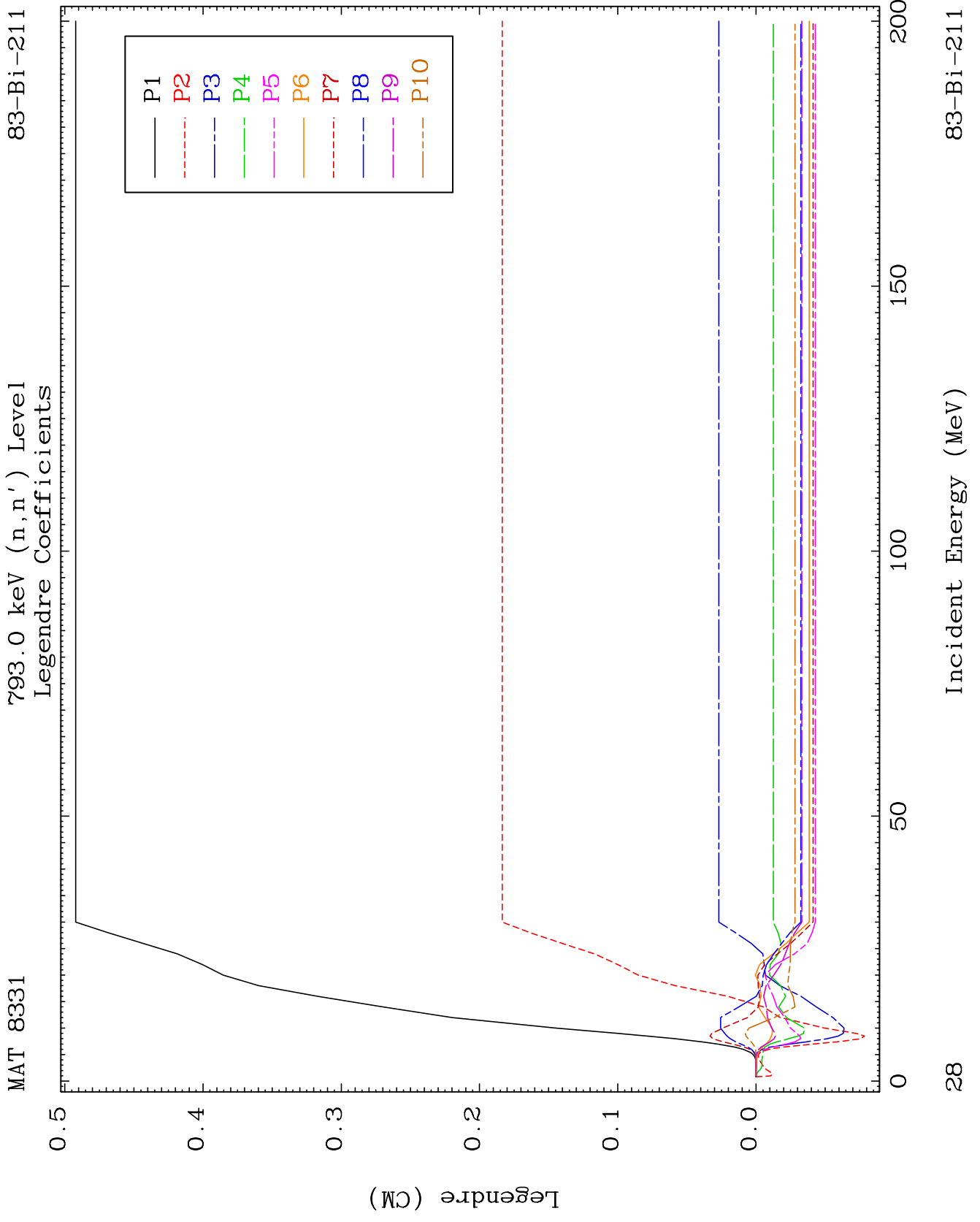


26

Incident Energy (MeV)

83-Bi-211

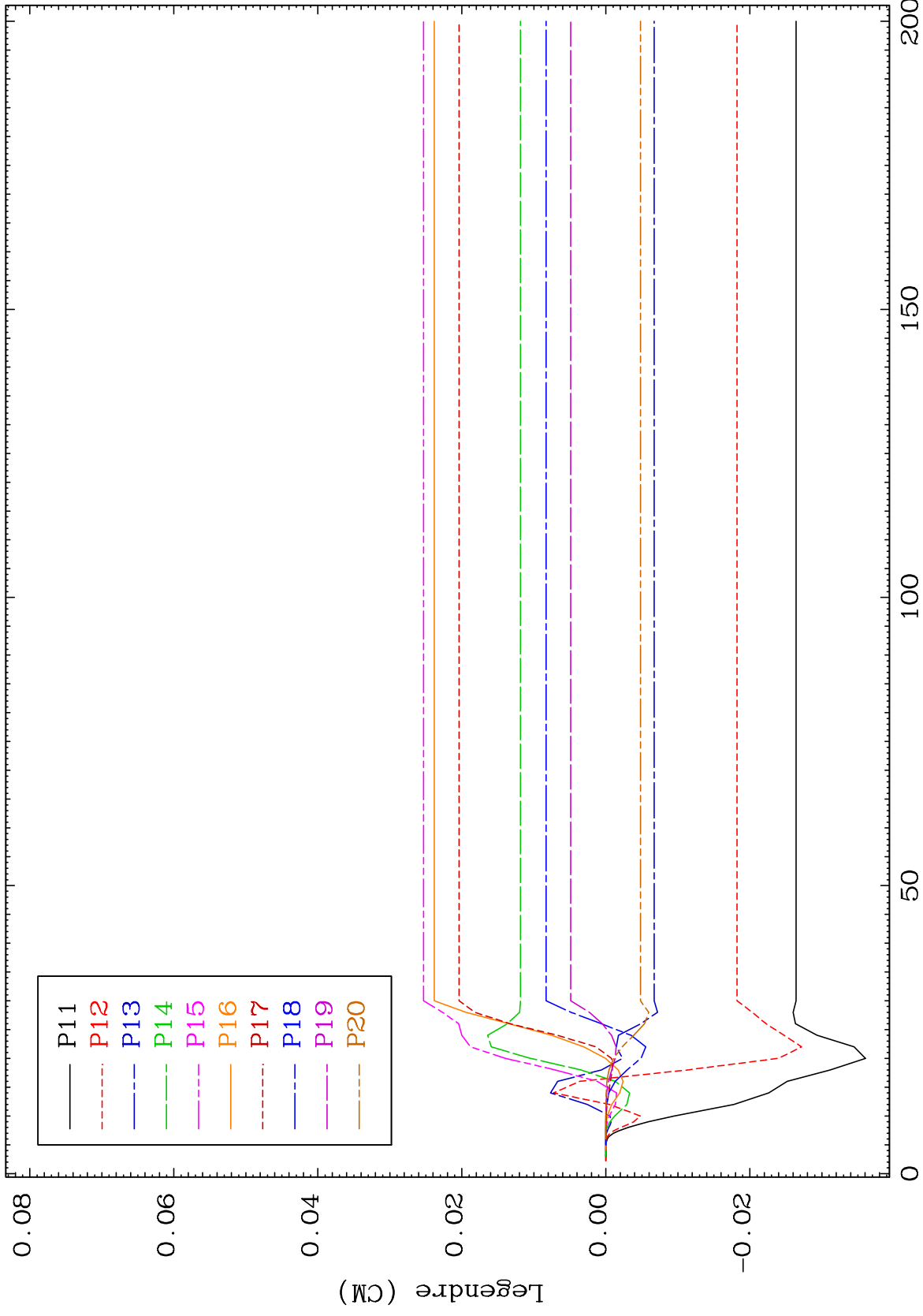




MAT 8331

793.0 keV (n,n') Level
Legendre Coefficients

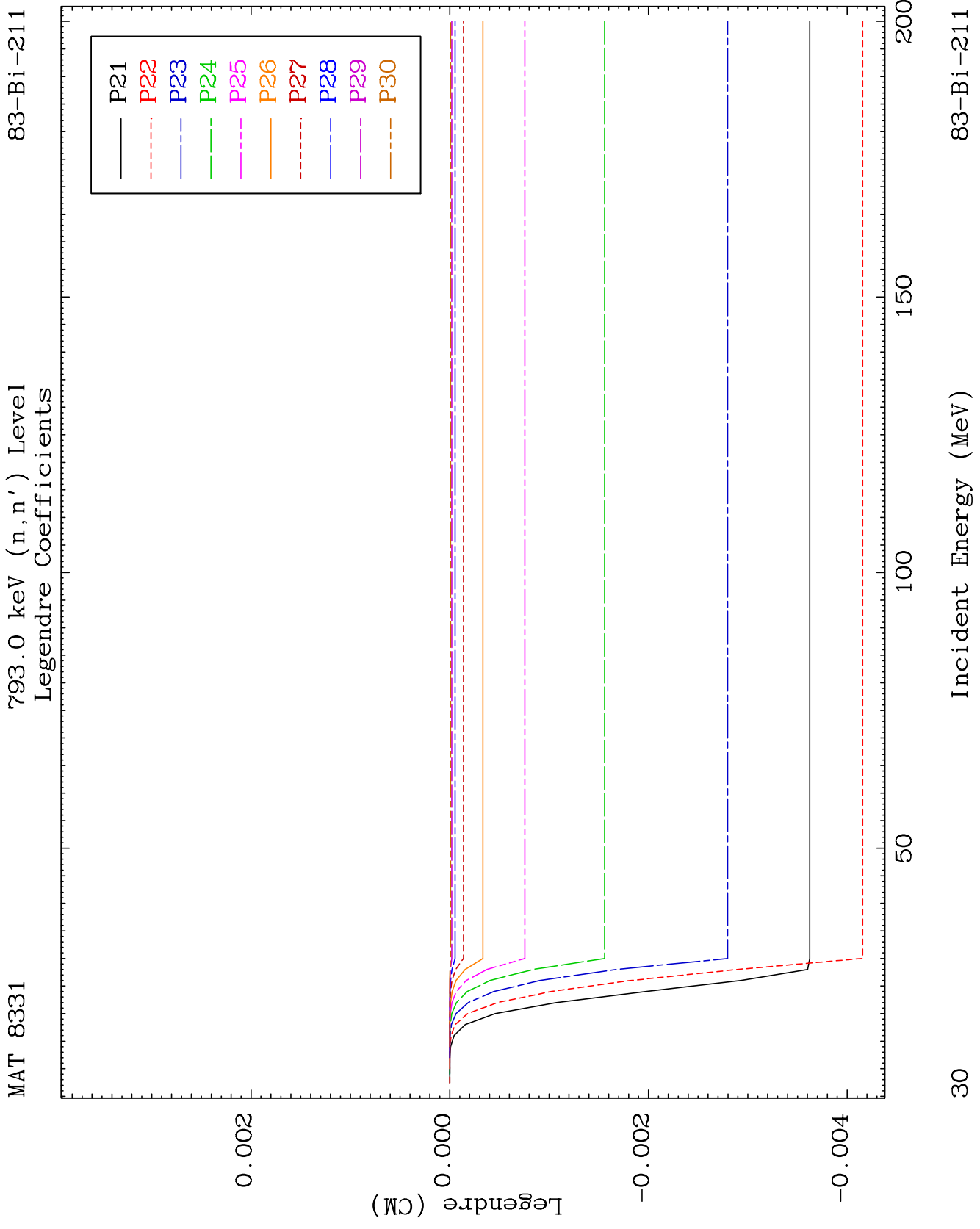
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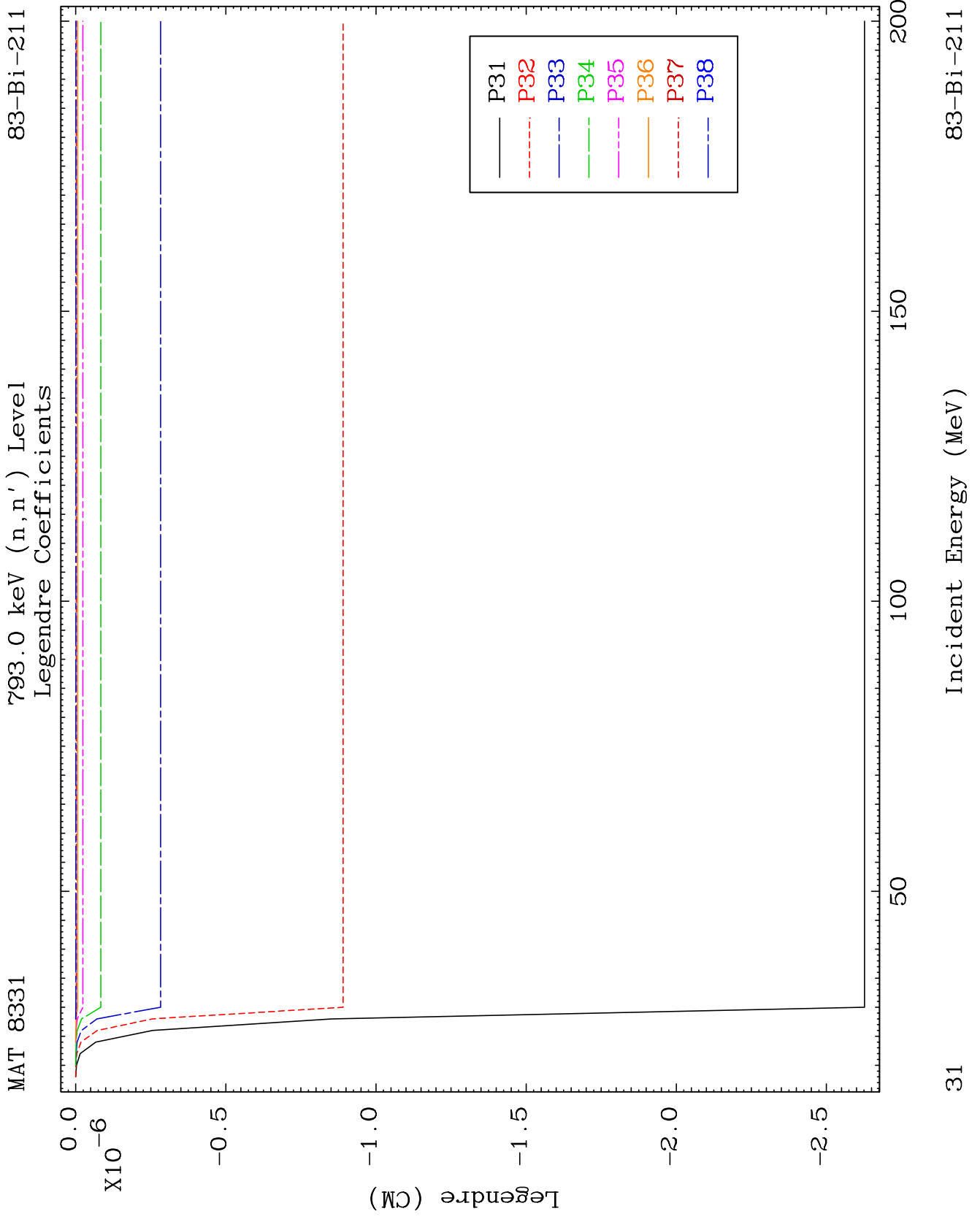


29

Incident Energy (MeV)

83-Bi-211

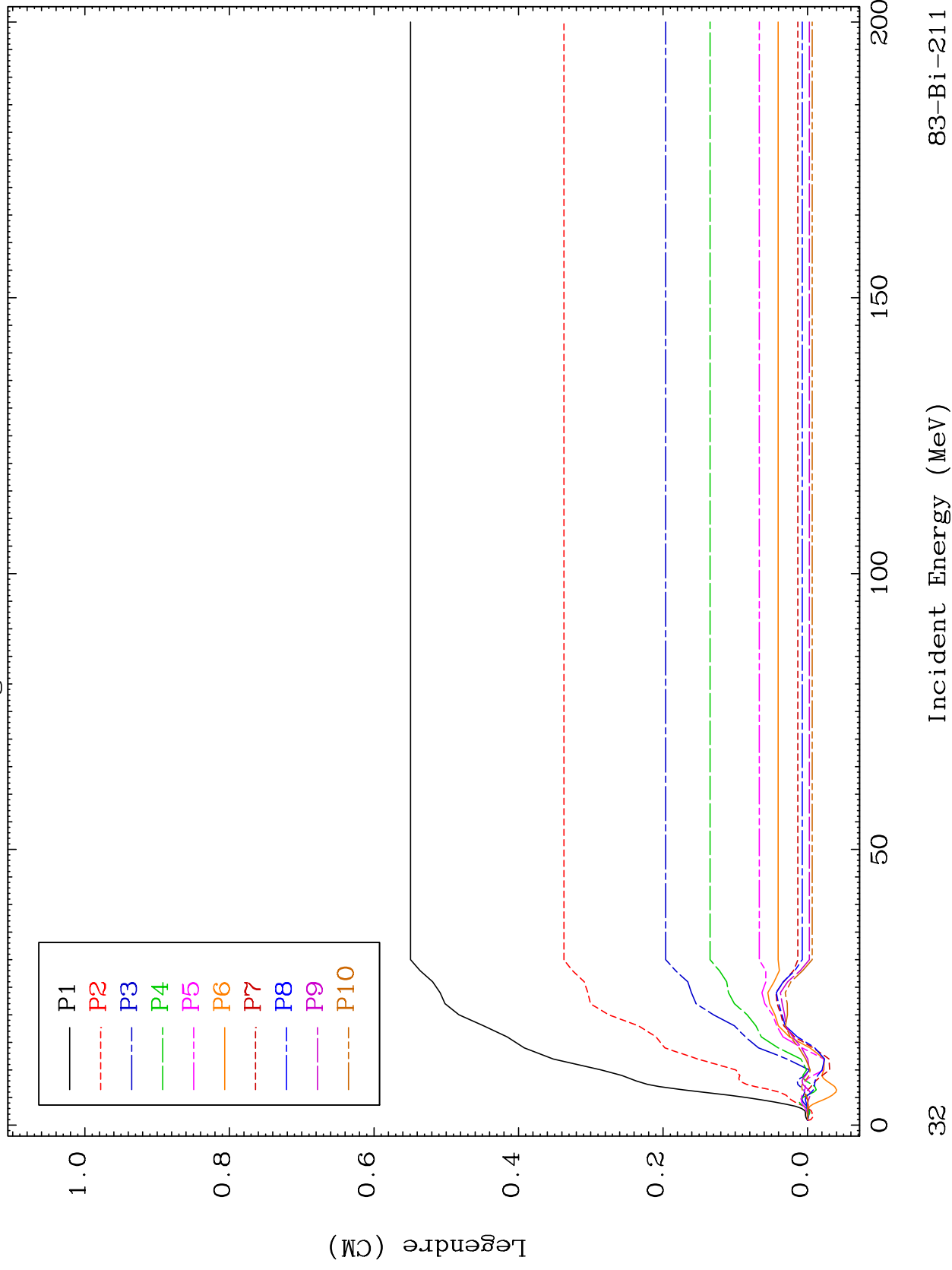




MAT 8331

828.1 keV (n,n') Level
Legendre Coefficients

83-Bi-211

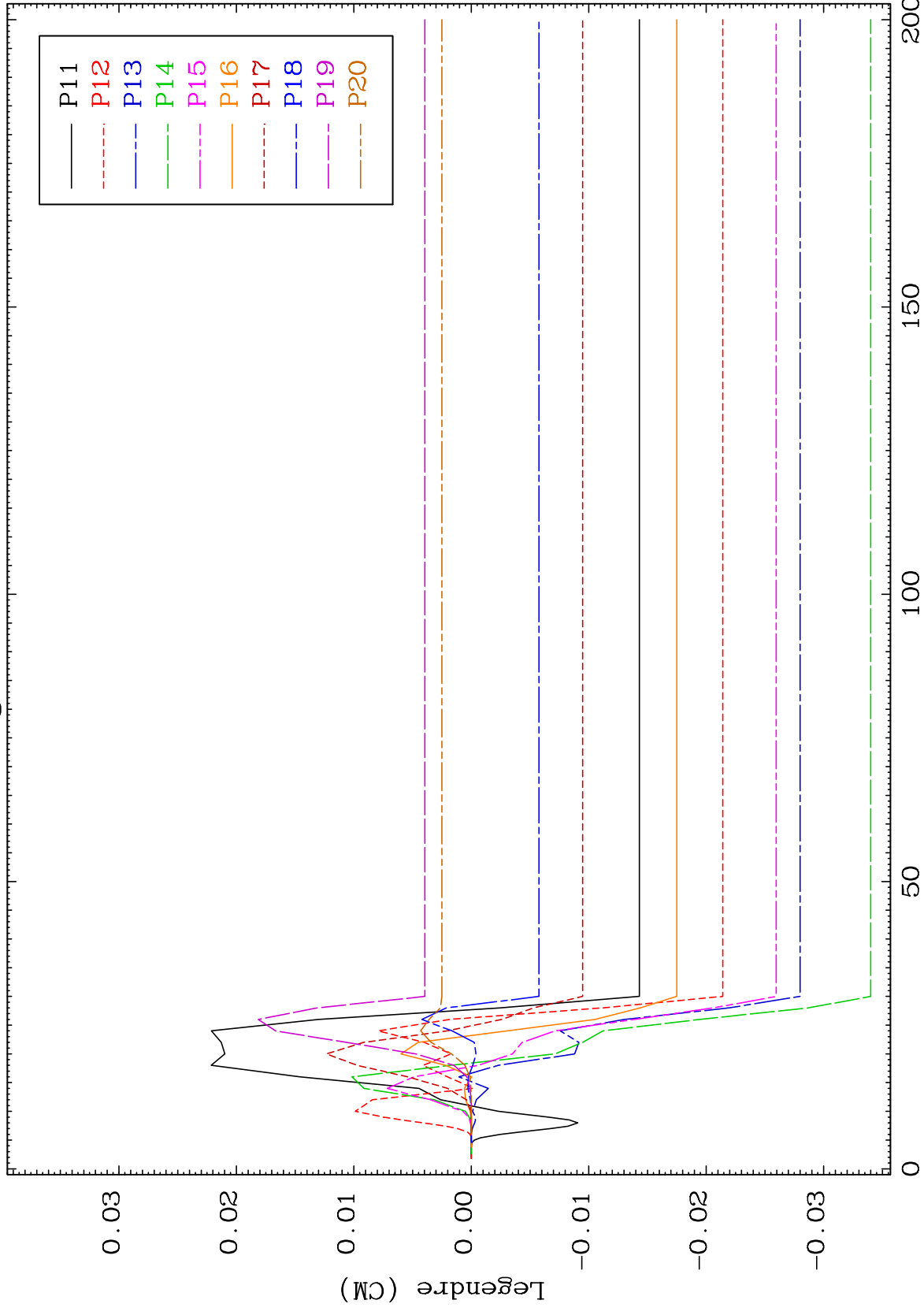


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MAT 8331

828.1 keV (n,n') Level
Legendre Coefficients

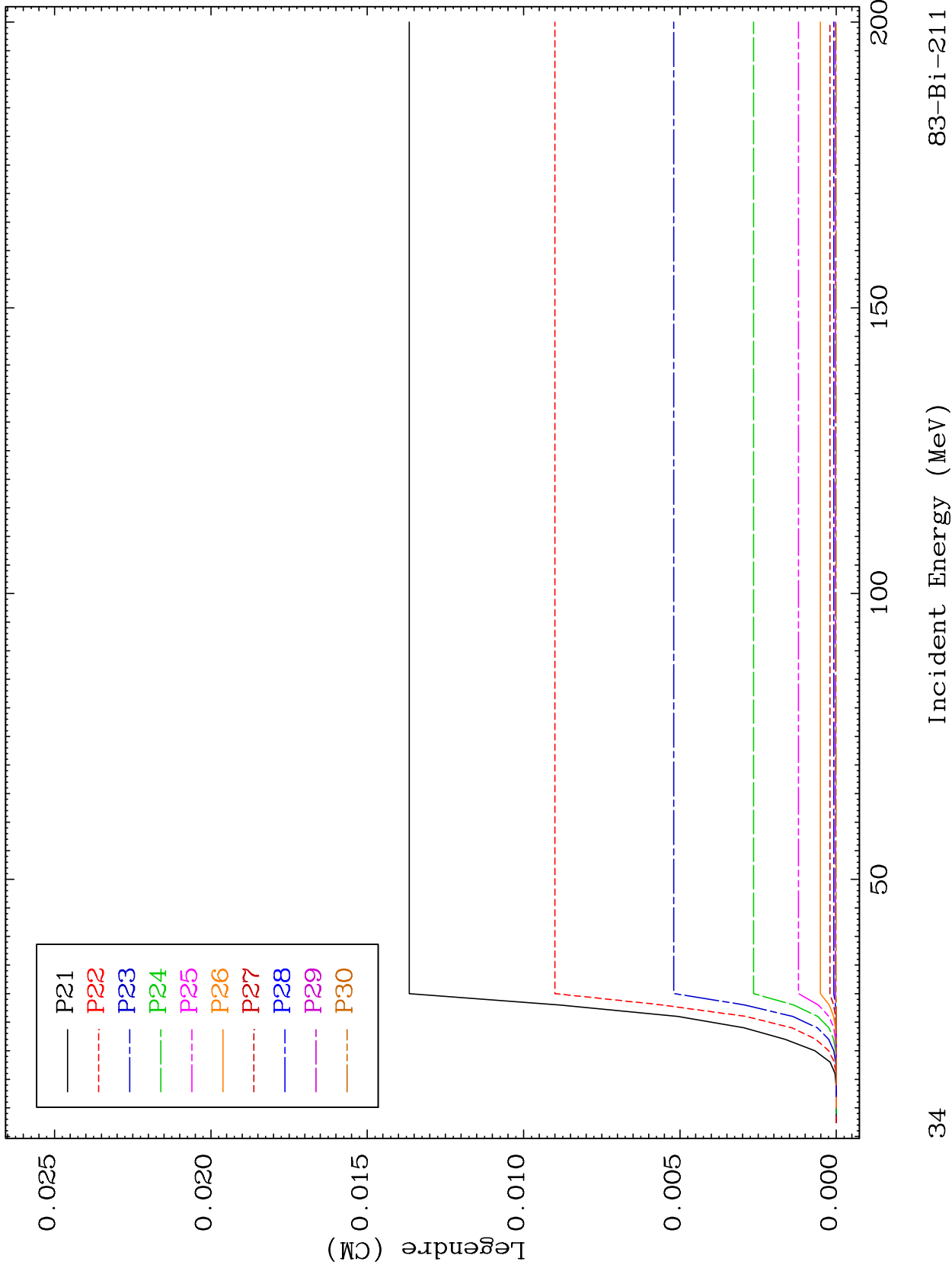
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33

Incident Energy (MeV)

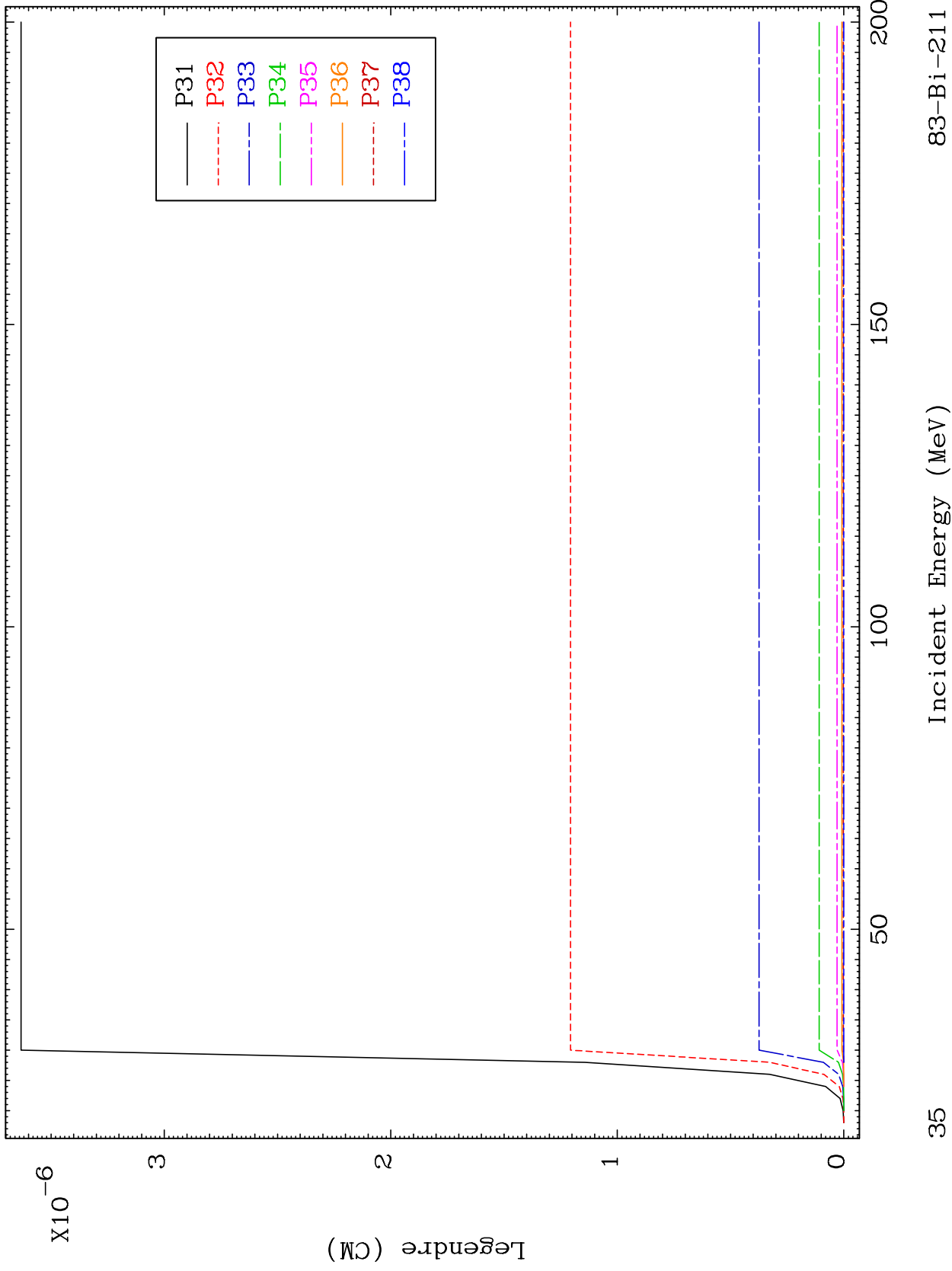
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MAT 8331

828.1 keV (n,n') Level
Legendre Coefficients

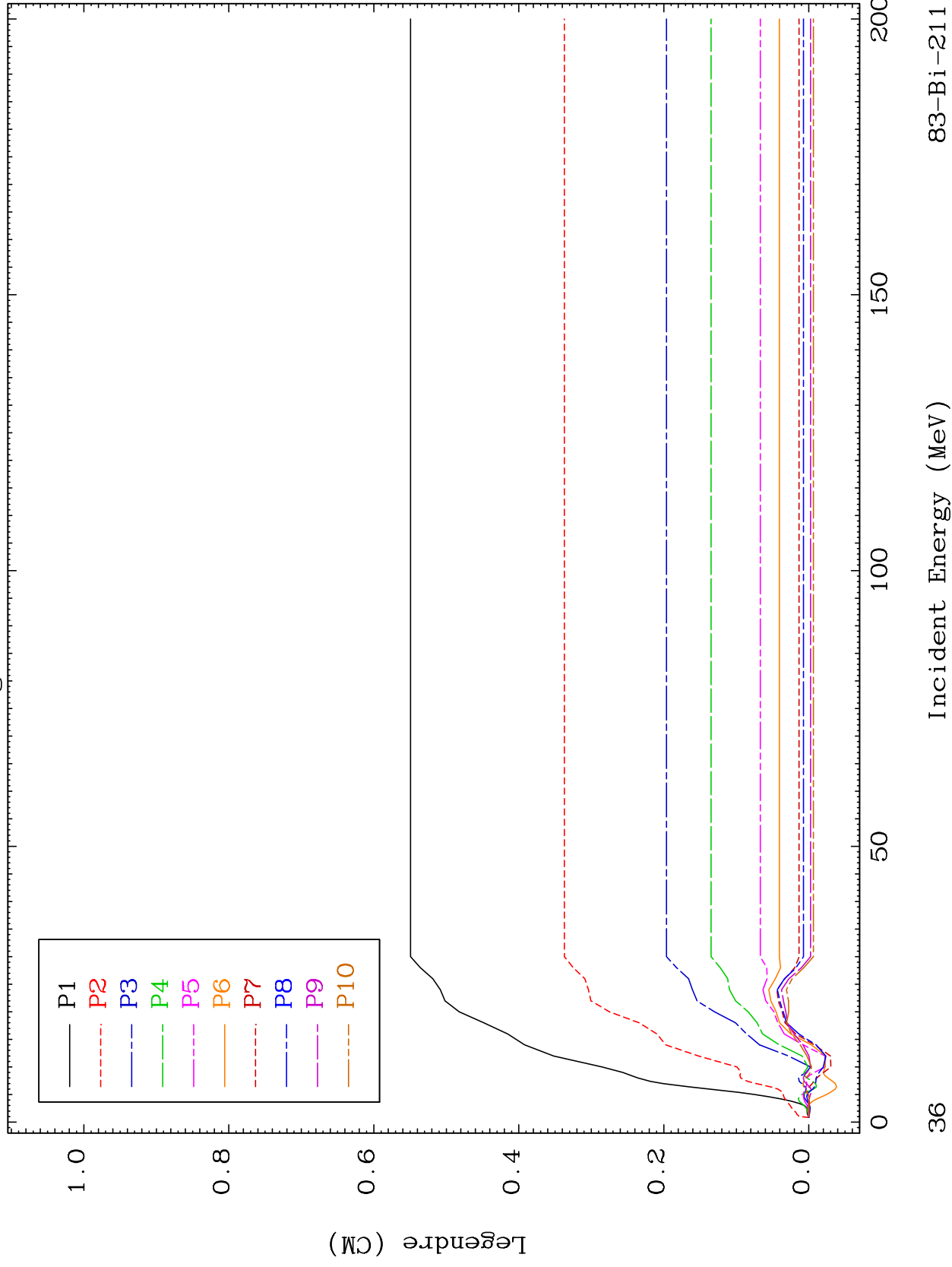
83-Bi-211



MAT 8331

832.0 keV (n,n') Level
Legendre Coefficients

83-Bi-211



83-Bi-211

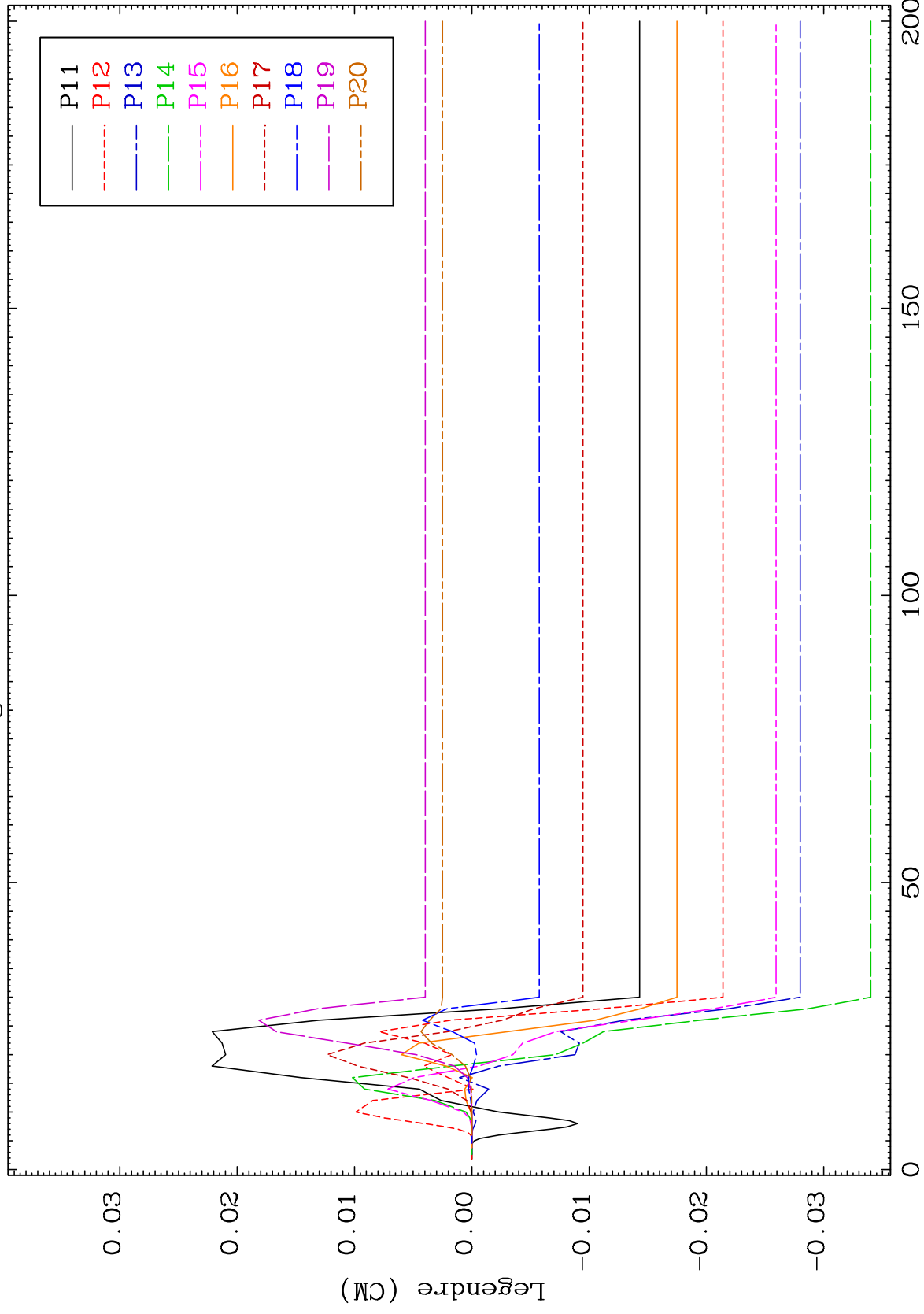
Incident Energy (MeV)

36

MAT 8331

832.0 keV (n,n') Level
Legendre Coefficients

83-Bi-211



37

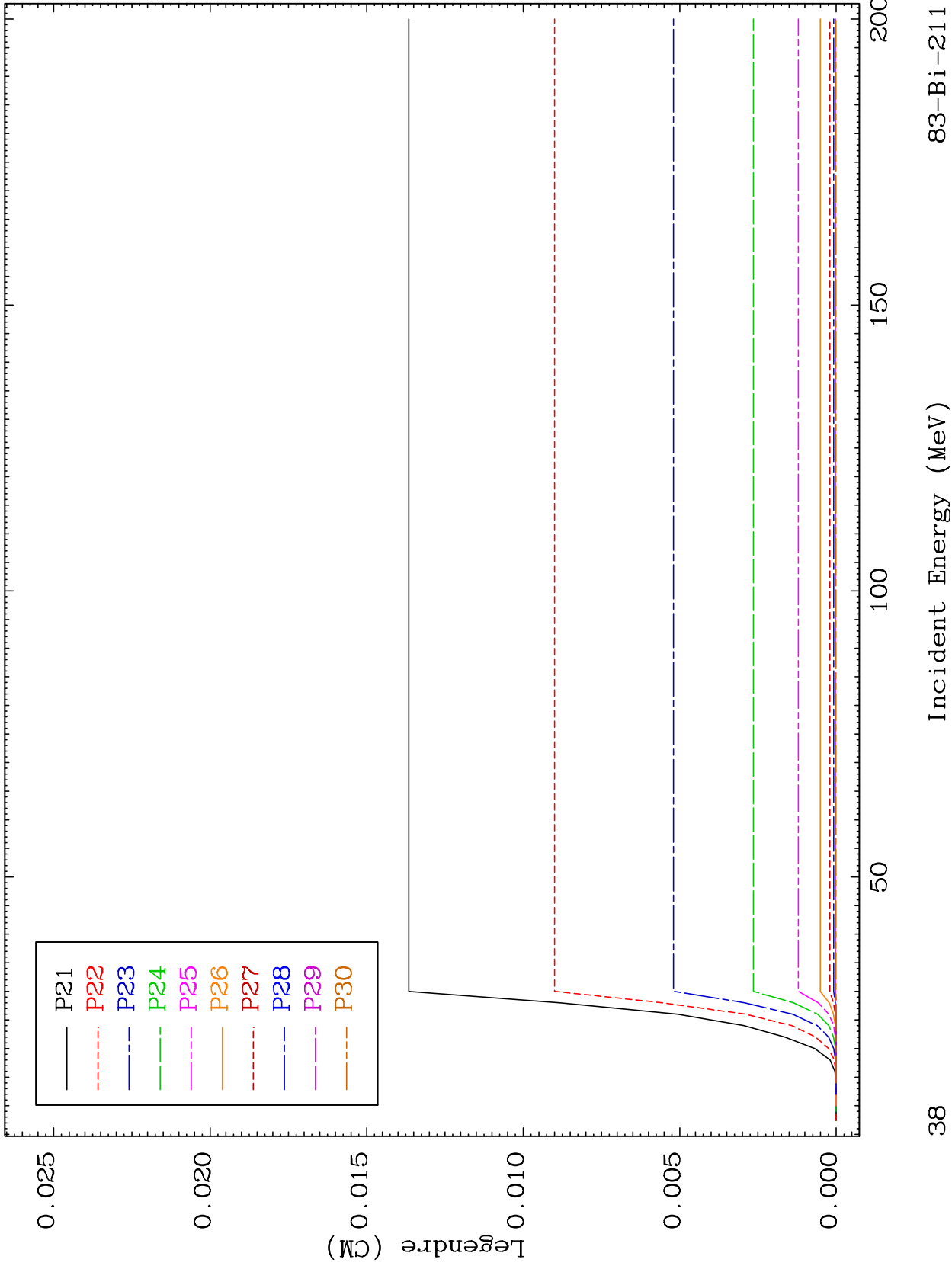
Incident Energy (MeV)

83-Bi-211

MAT 8331

832.0 keV (n,n') Level
Legendre Coefficients

83-Bi-211



38

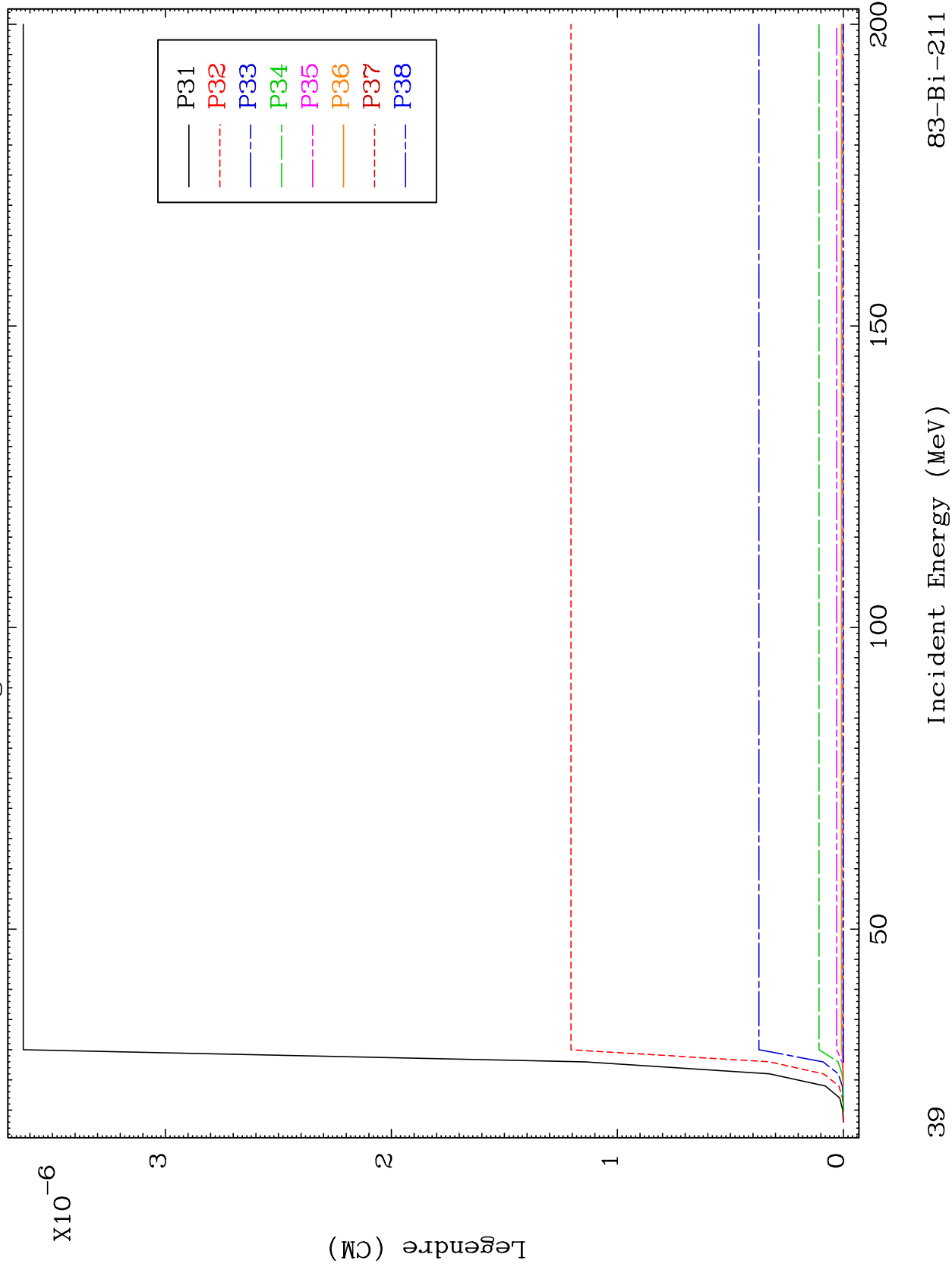
Incident Energy (MeV)

83-Bi-211

MAT 8331

832.0 keV (n,n') Level
Legendre Coefficients

83-Bi-211

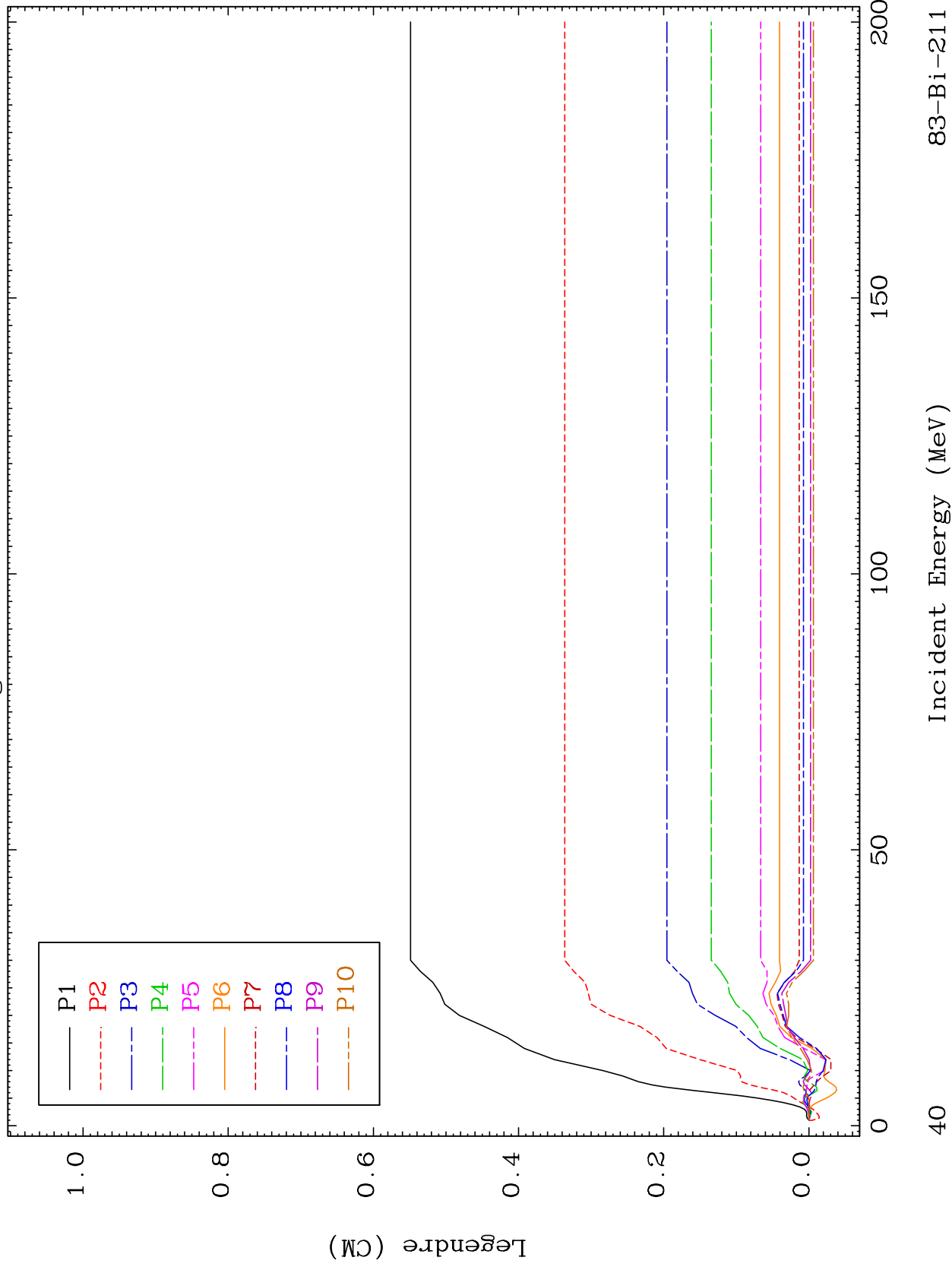


39

MAT 8331

950.9 keV (n,n') Level
Legendre Coefficients

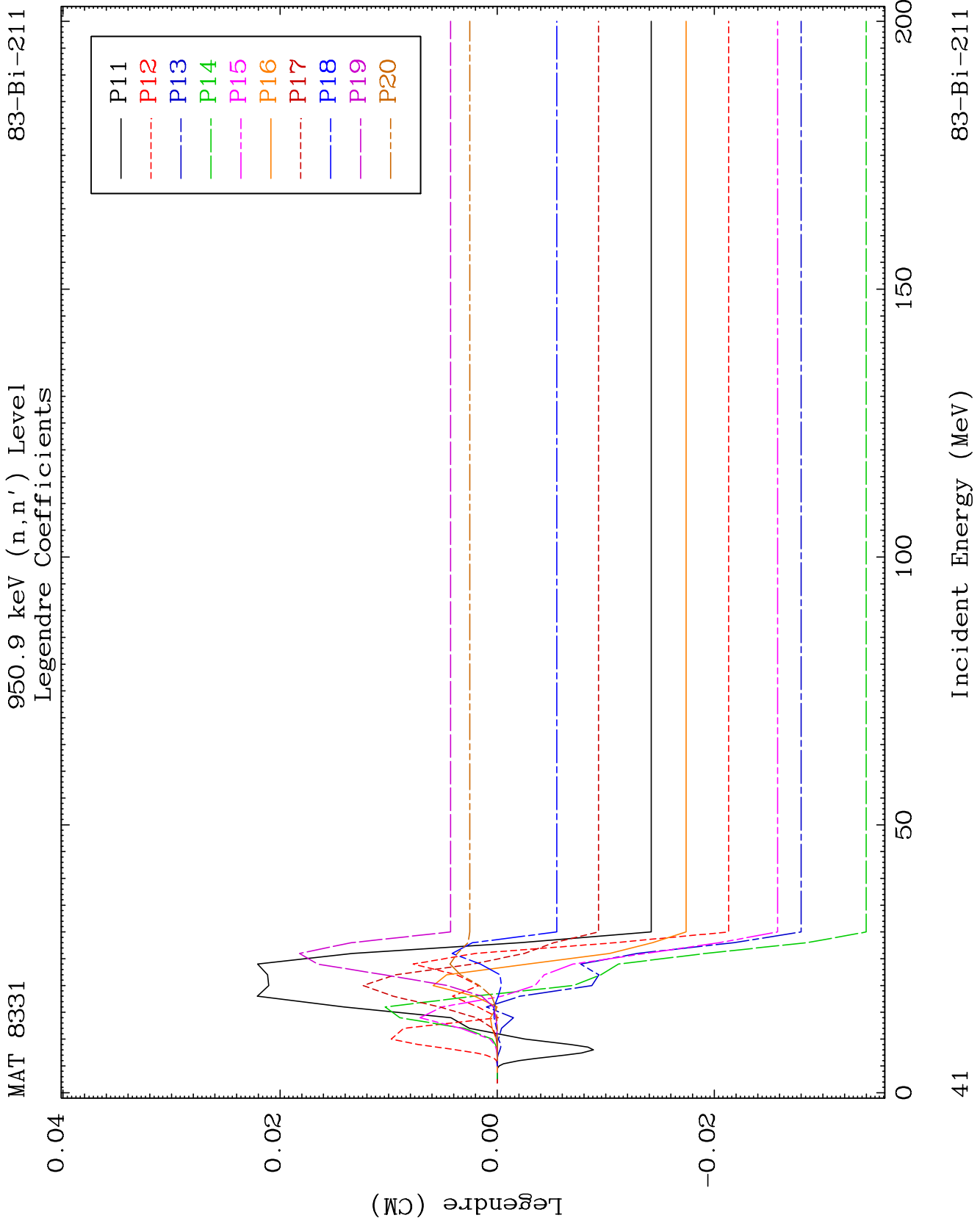
83-Bi-211



83-Bi-211

Incident Energy (MeV)

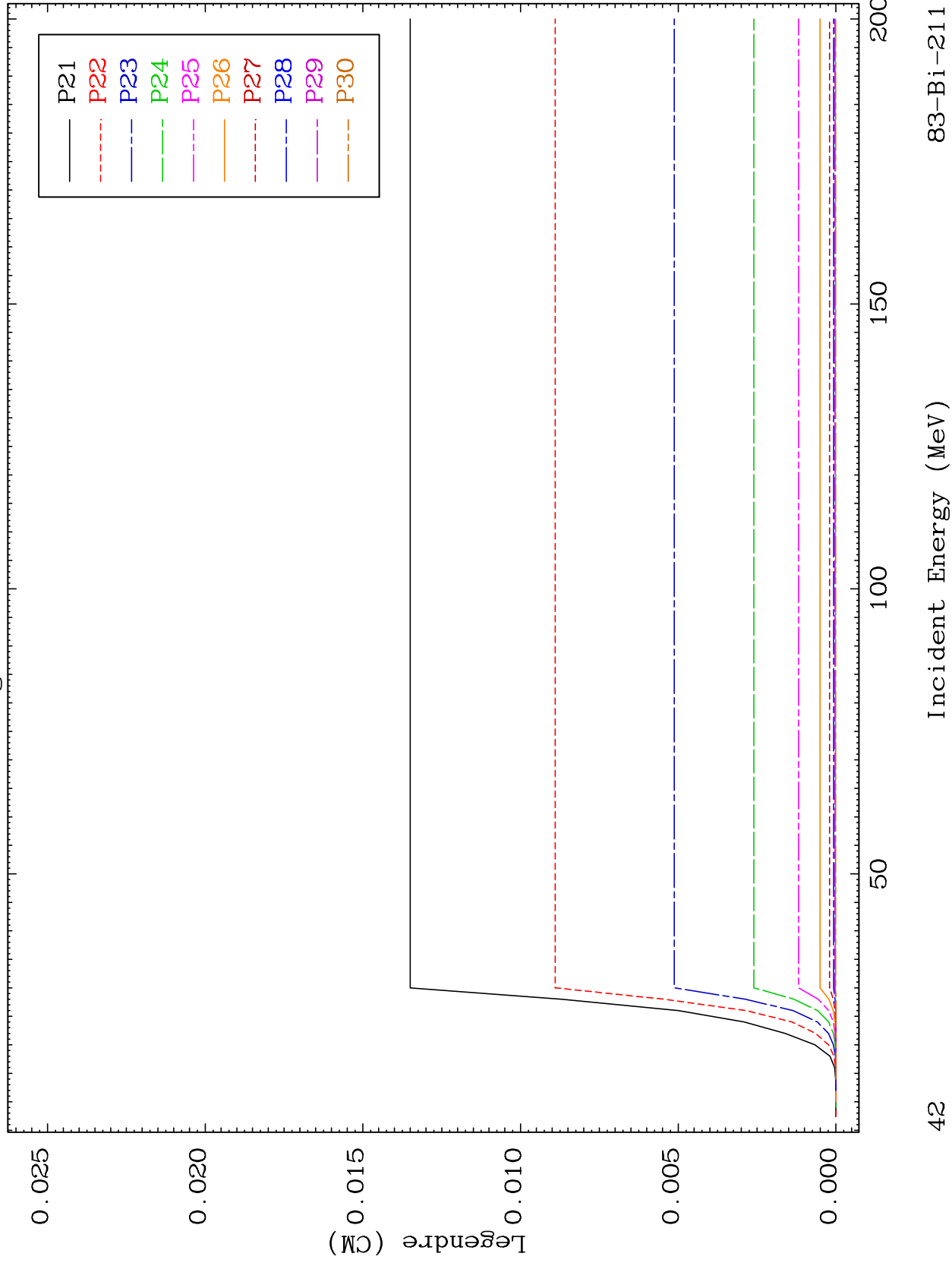
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MAT 8331

950.9 keV (n,n') Level
Legendre Coefficients

83-Bi-211



42

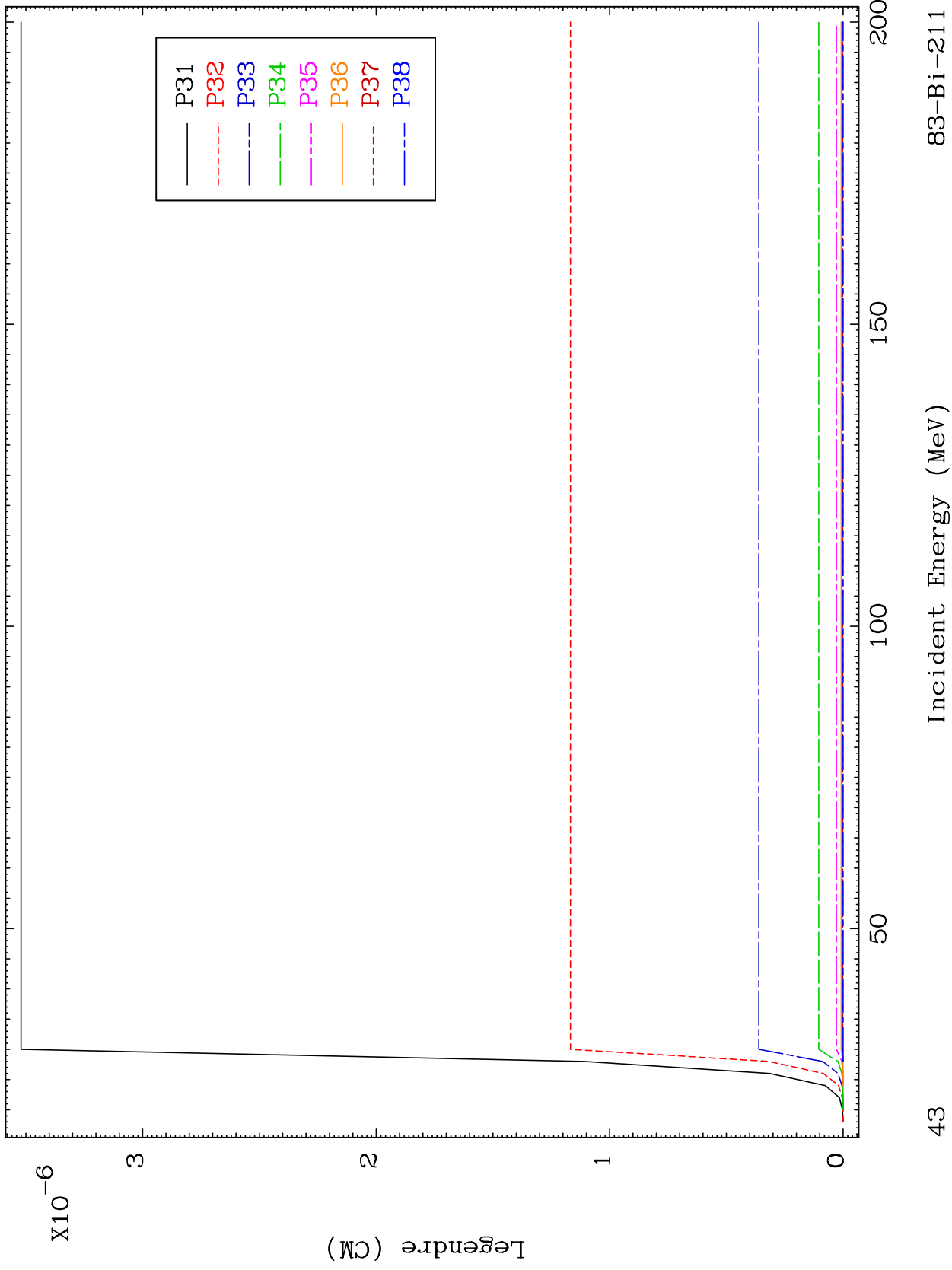
Incident Energy (MeV)

83-Bi-211

MAT 8331

950.9 keV (n,n') Level
Legendre Coefficients

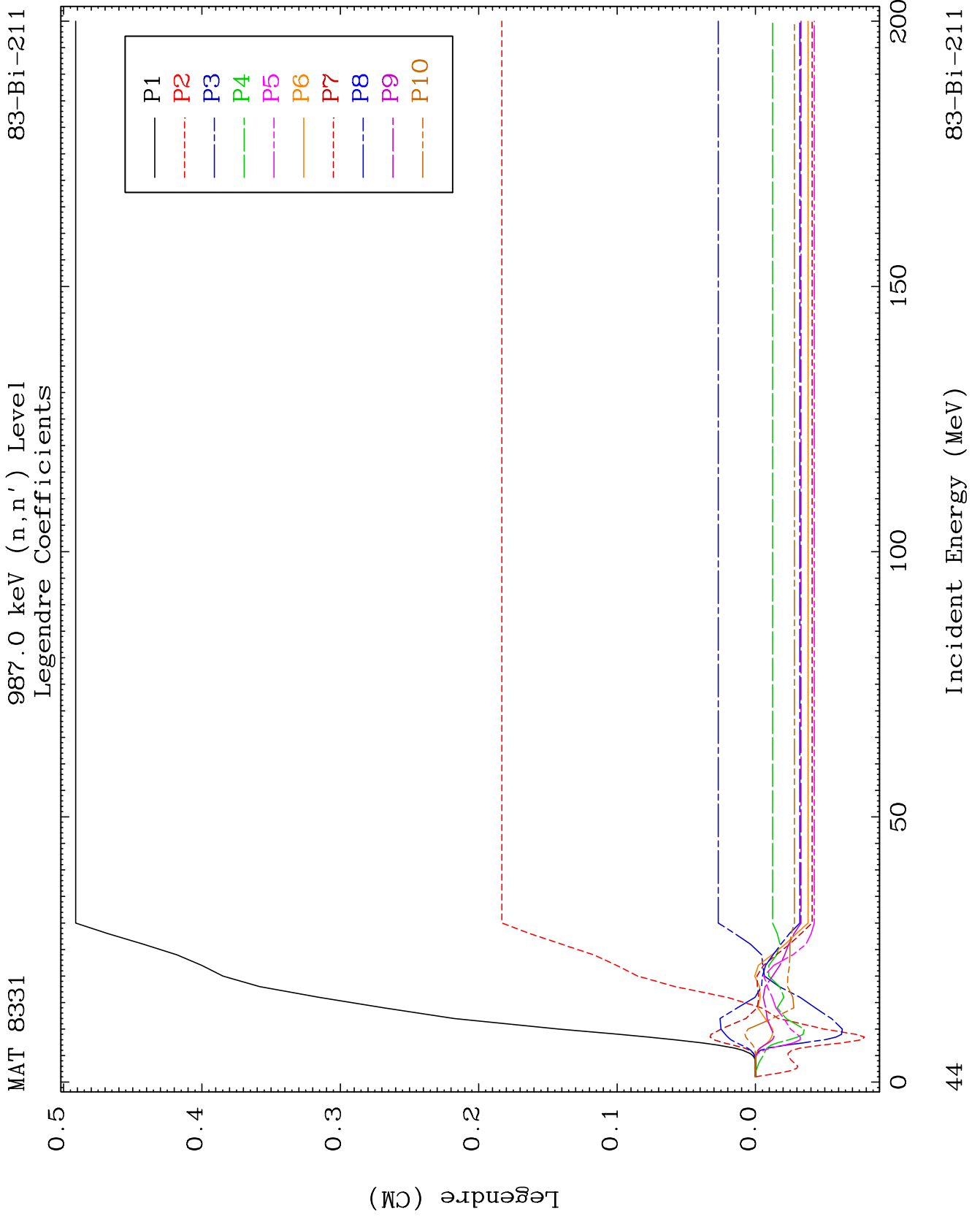
83-Bi-211



43

Incident Energy (MeV)

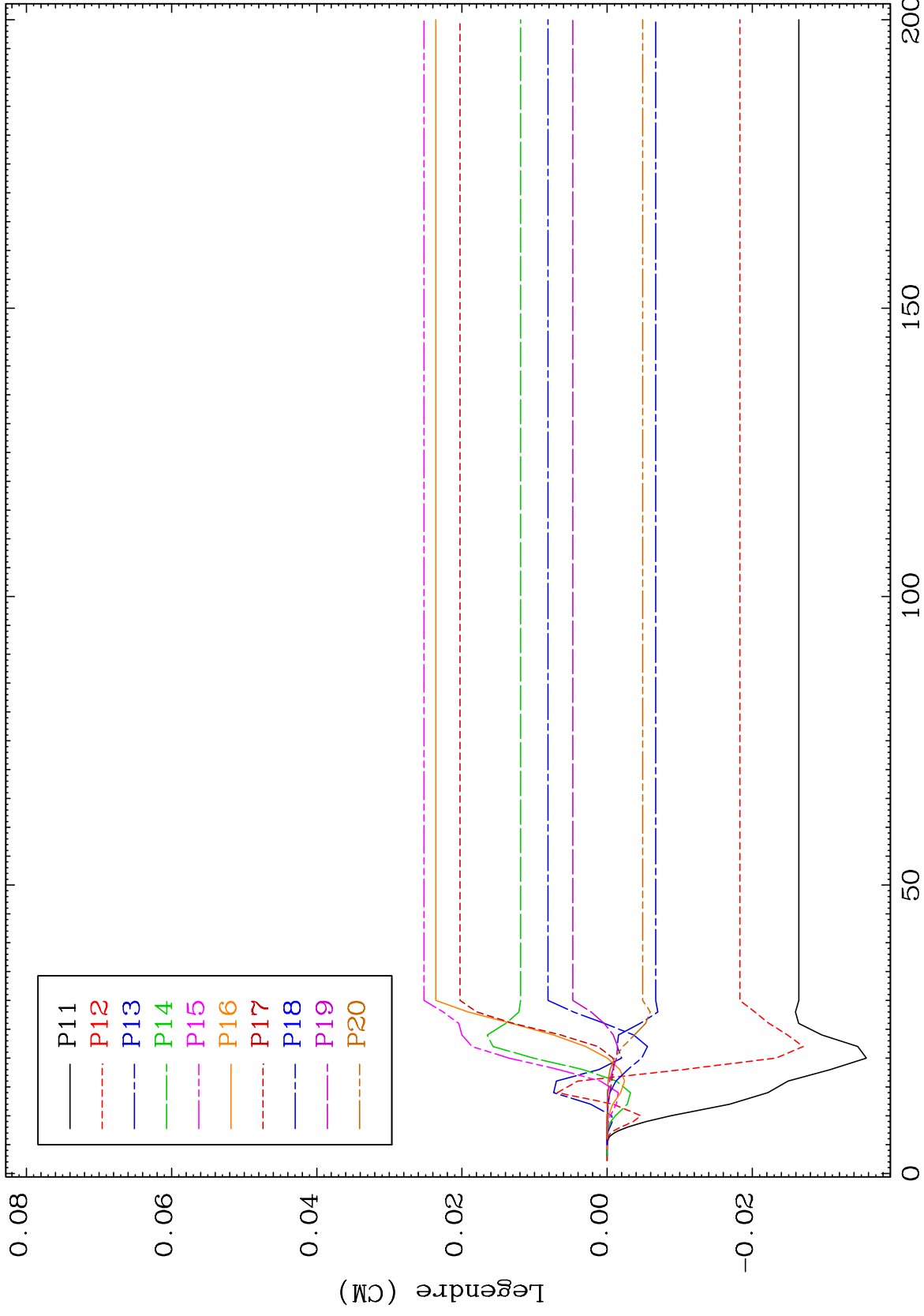
83-Bi-211



MAT 8331

987.0 keV (n,n') Level
Legendre Coefficients

83-Bi-211



Incident Energy (MeV)

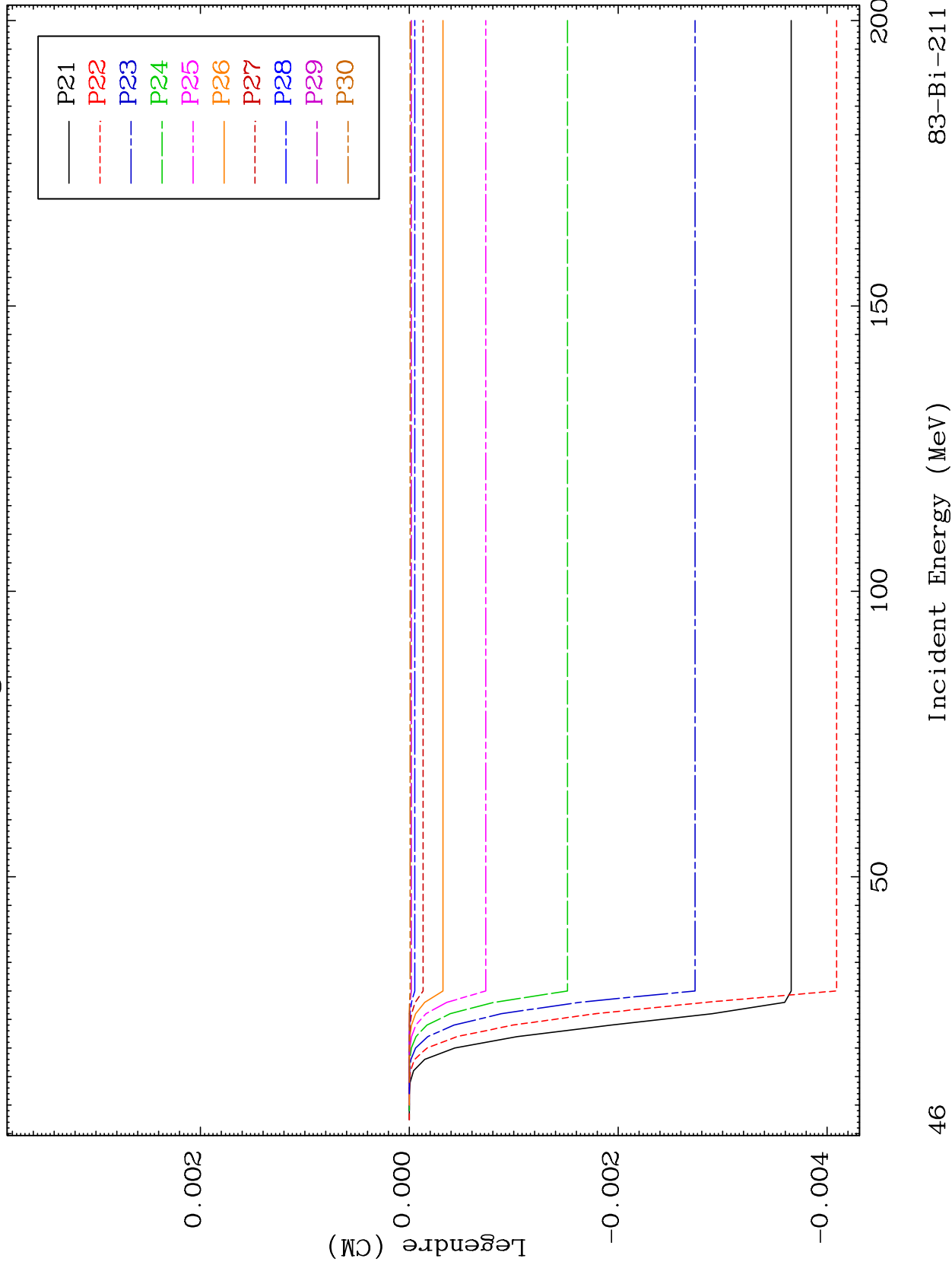
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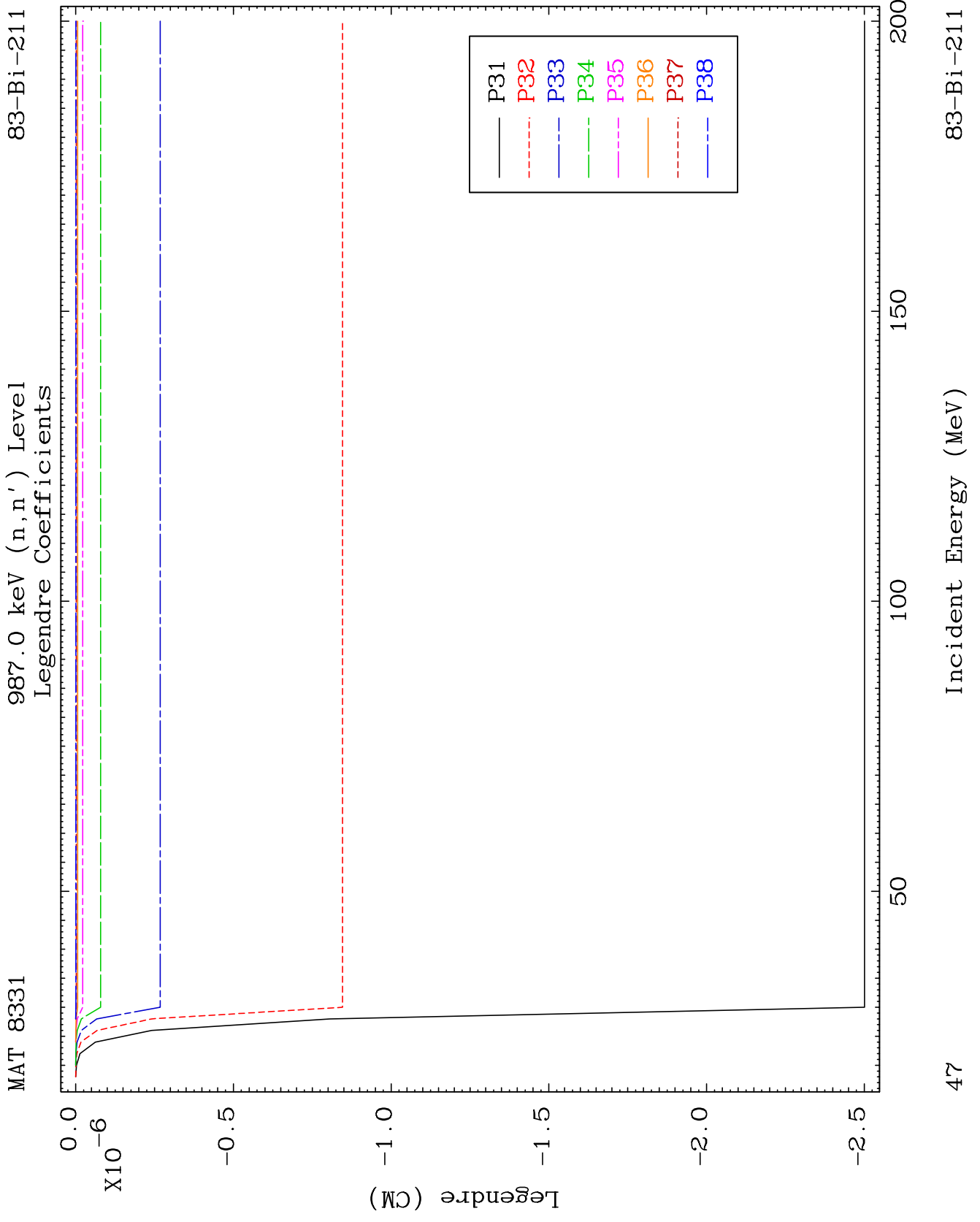
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MAT 8331

987.0 keV (n,n') Level
Legendre Coefficients

83-Bi-211

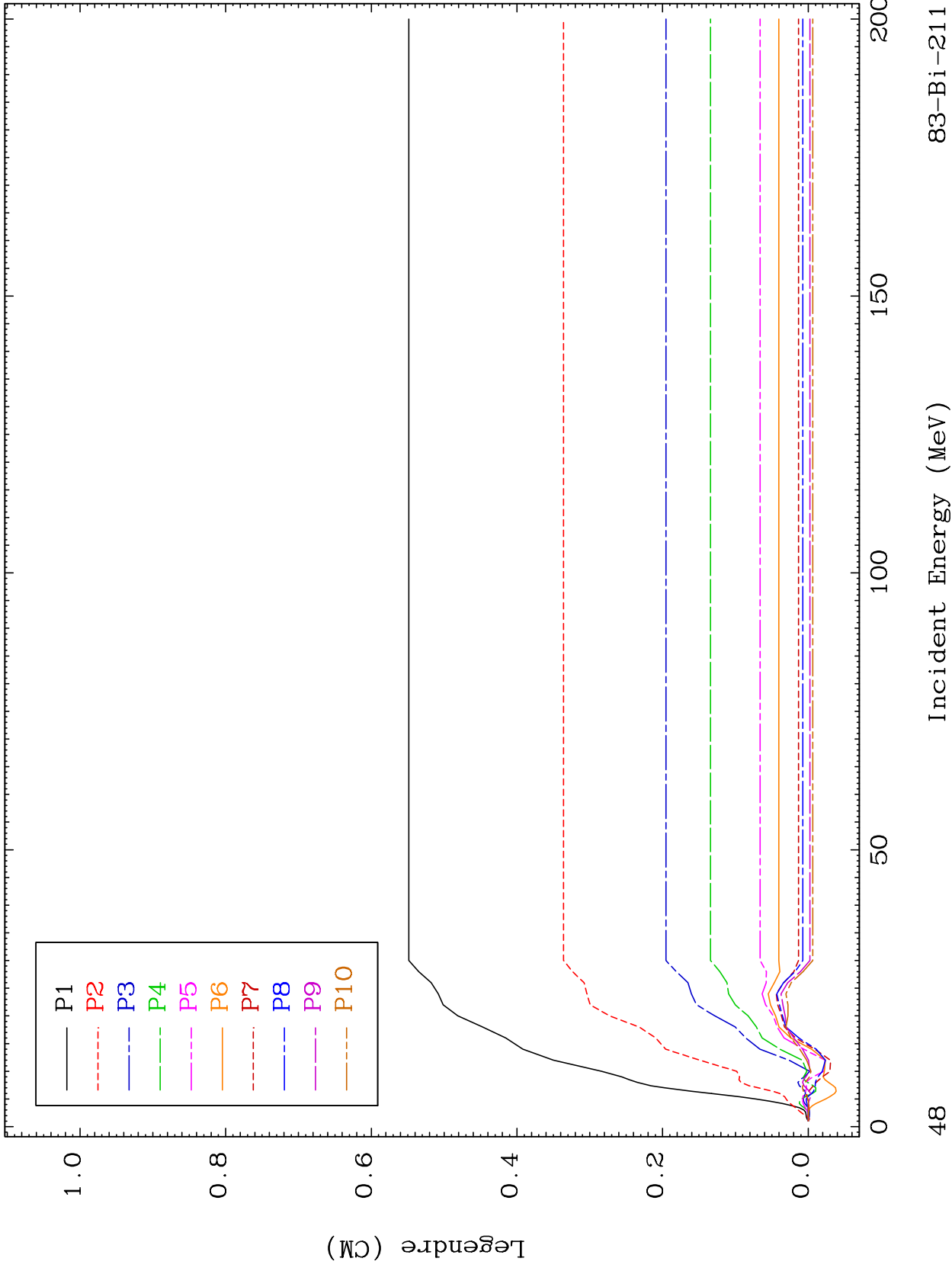




MAT 8331

1.014 MeV (n,n') Level
Legendre Coefficients

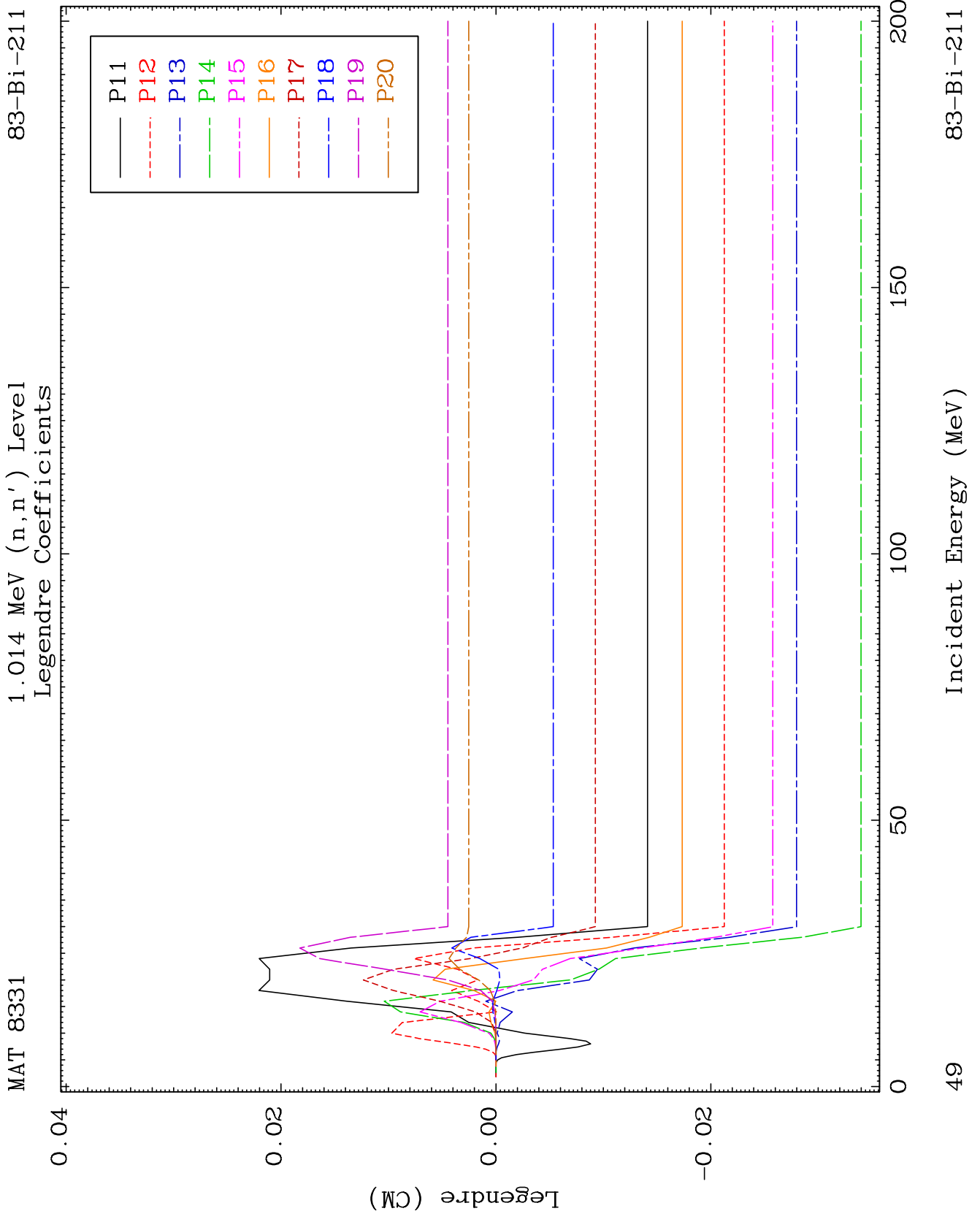
83-Bi-211



83-Bi-211

Incident Energy (MeV)

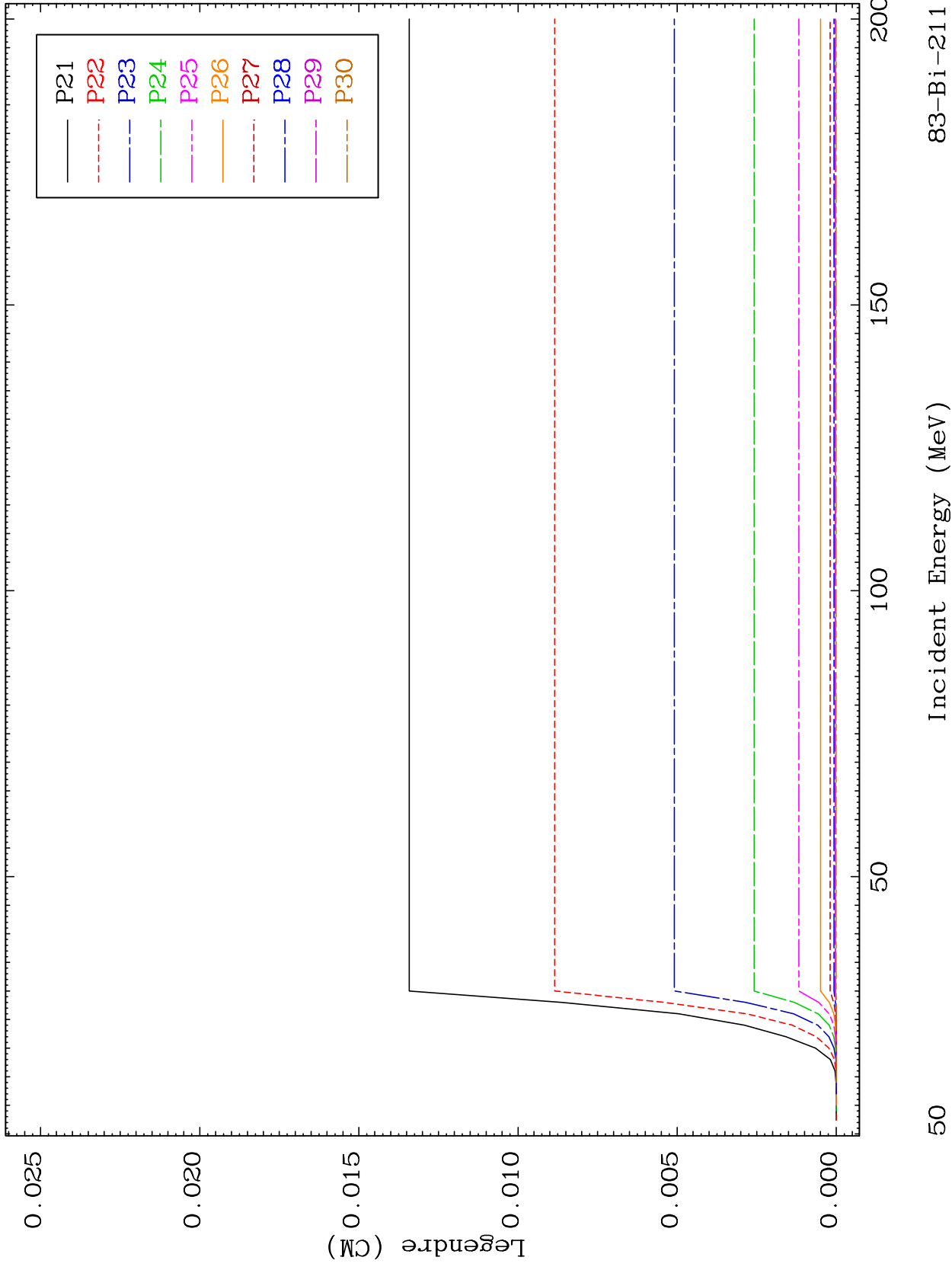
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MAT 8331

1.014 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



83-Bi-211

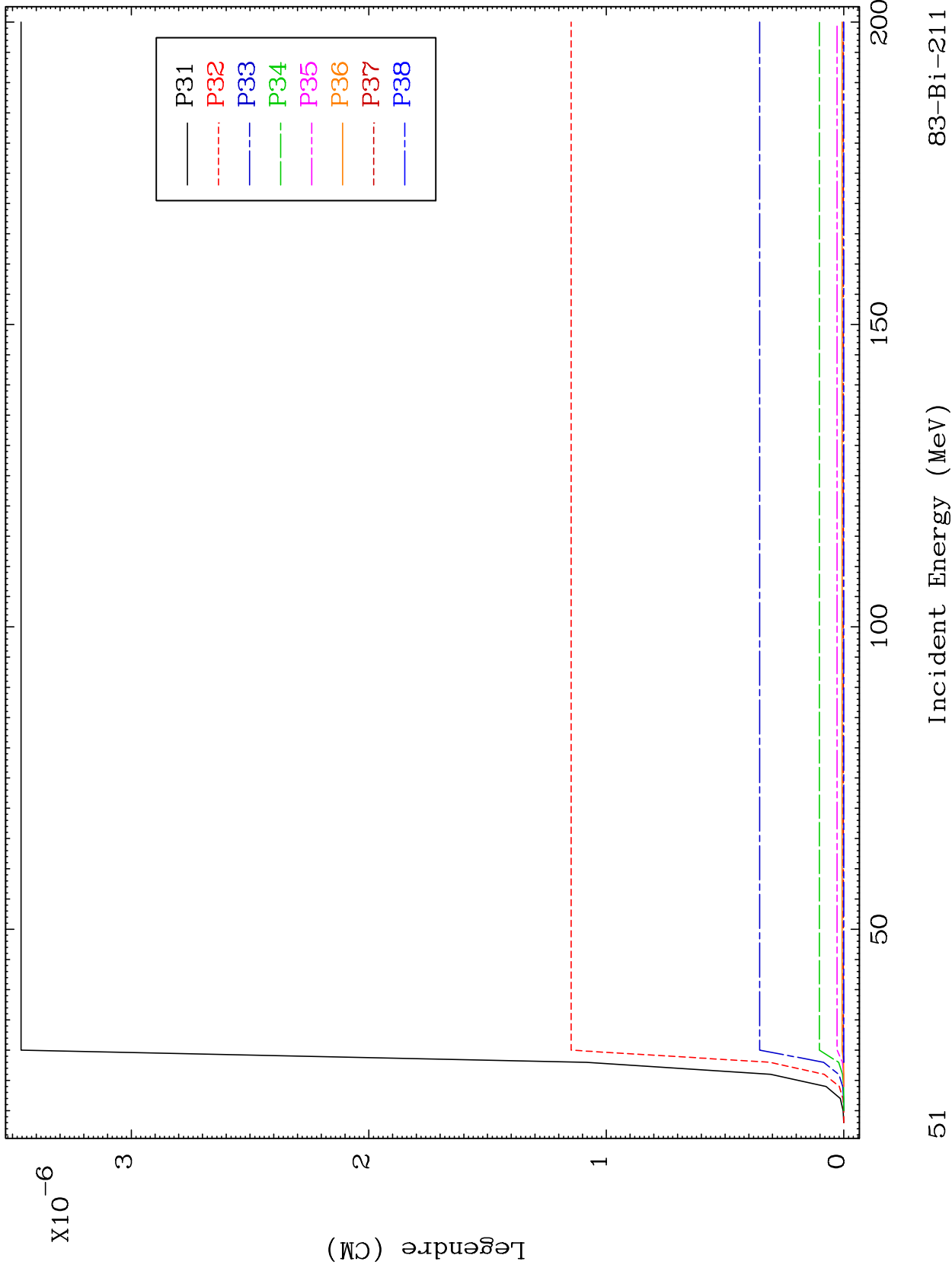
Incident Energy (MeV)

50

MAT 8331

1.014 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



51

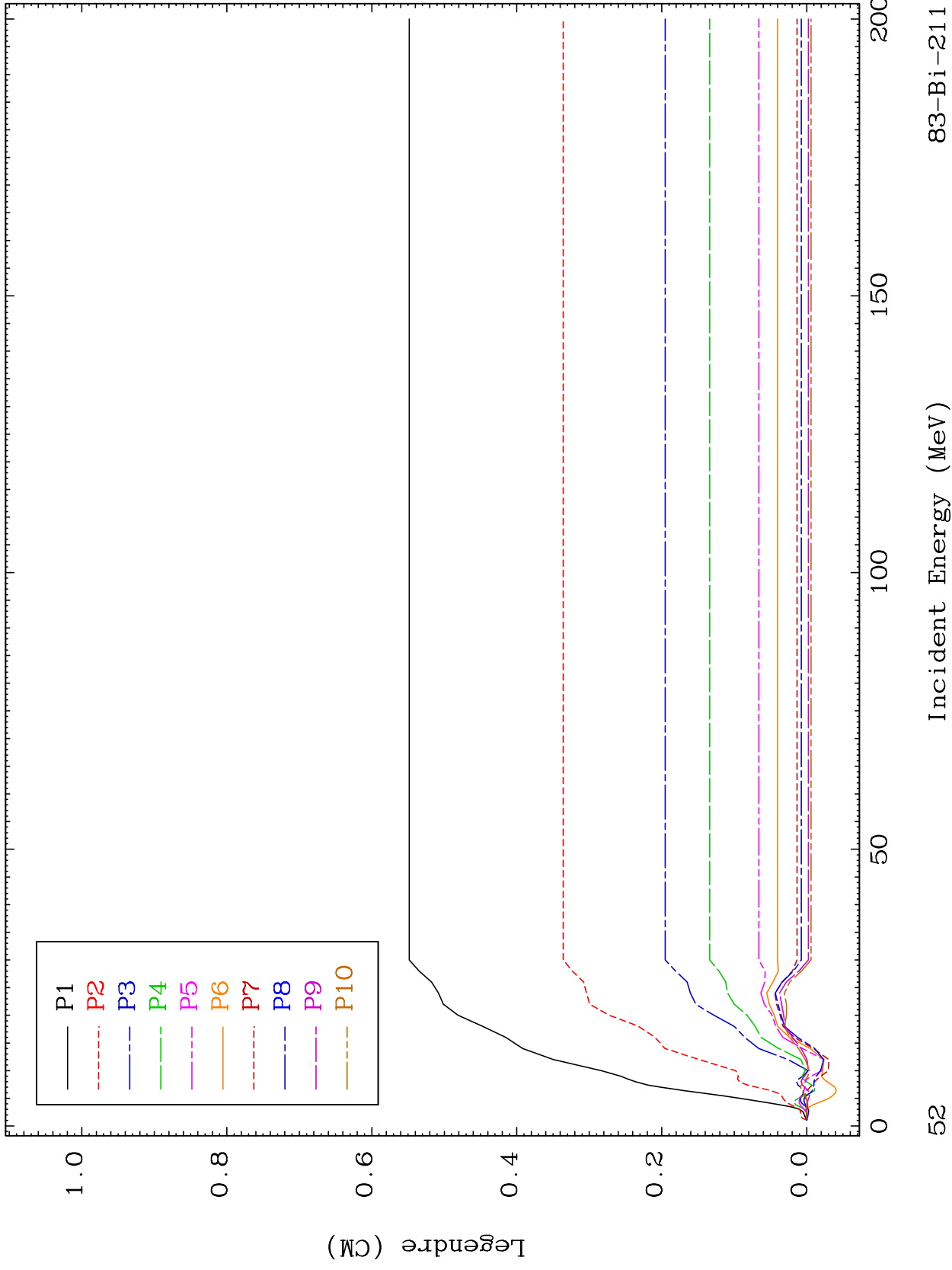
Incident Energy (MeV)

83-Bi-211

MAT 8331

1.050 MeV (n,n') Level
Legendre Coefficients

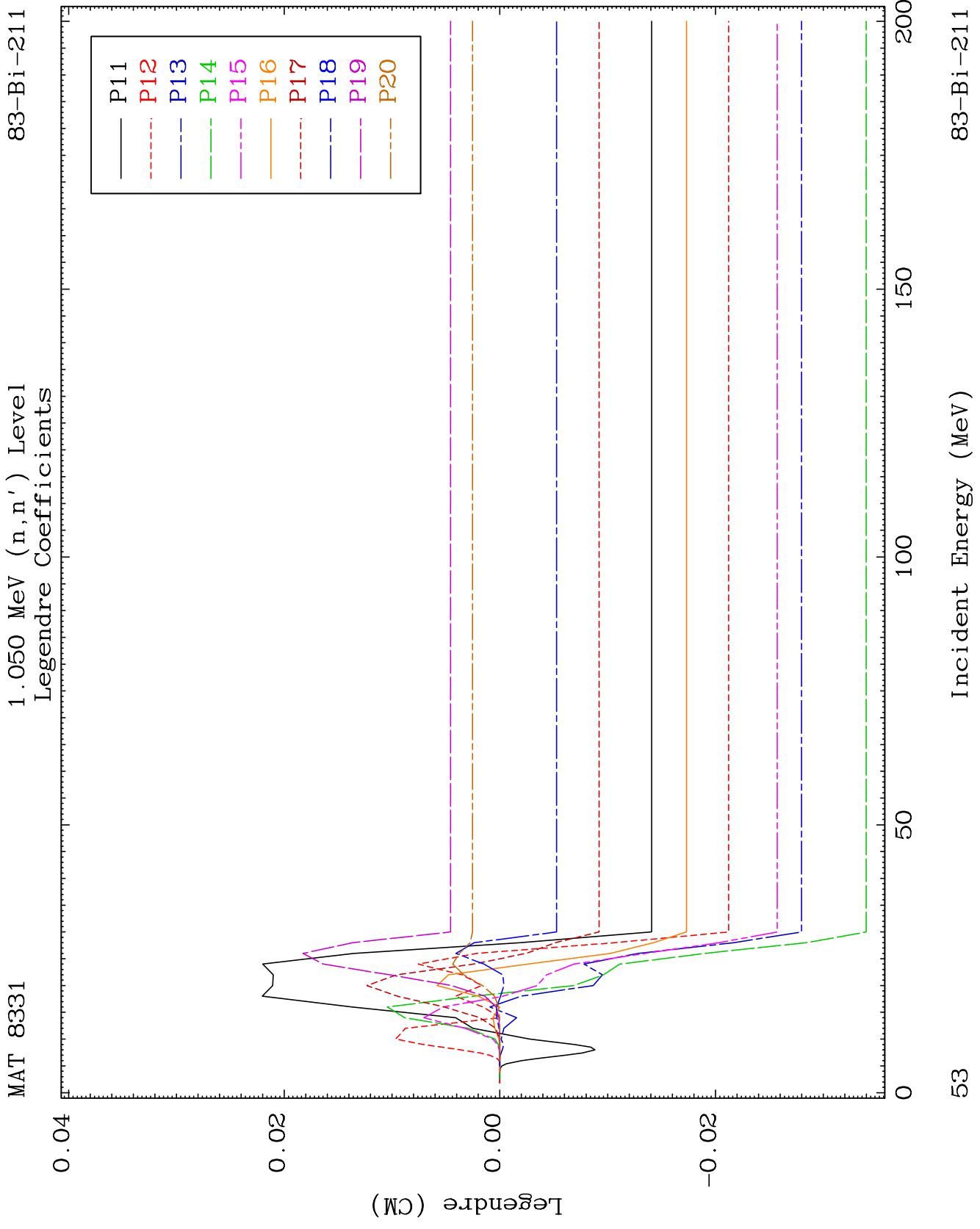
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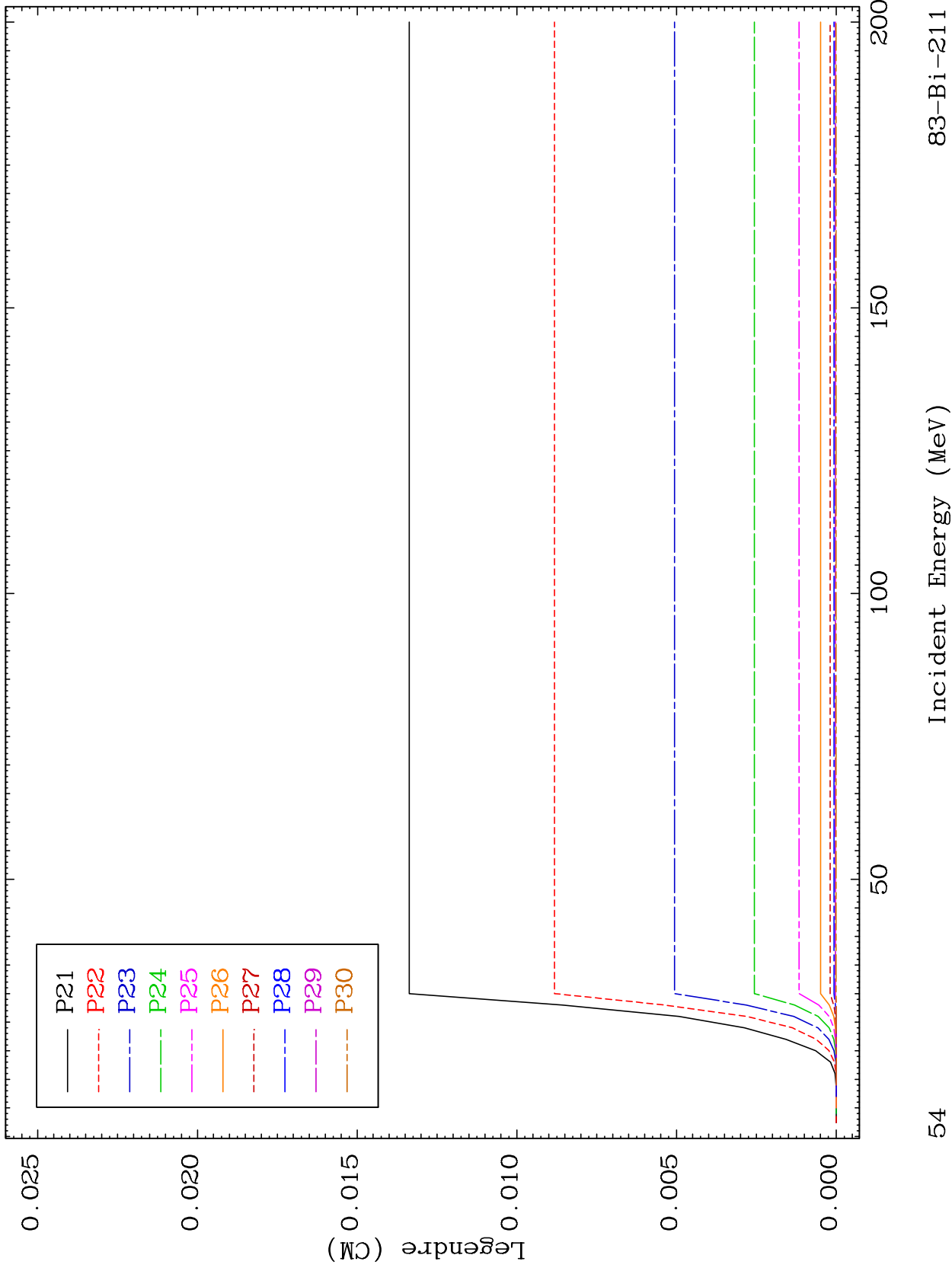


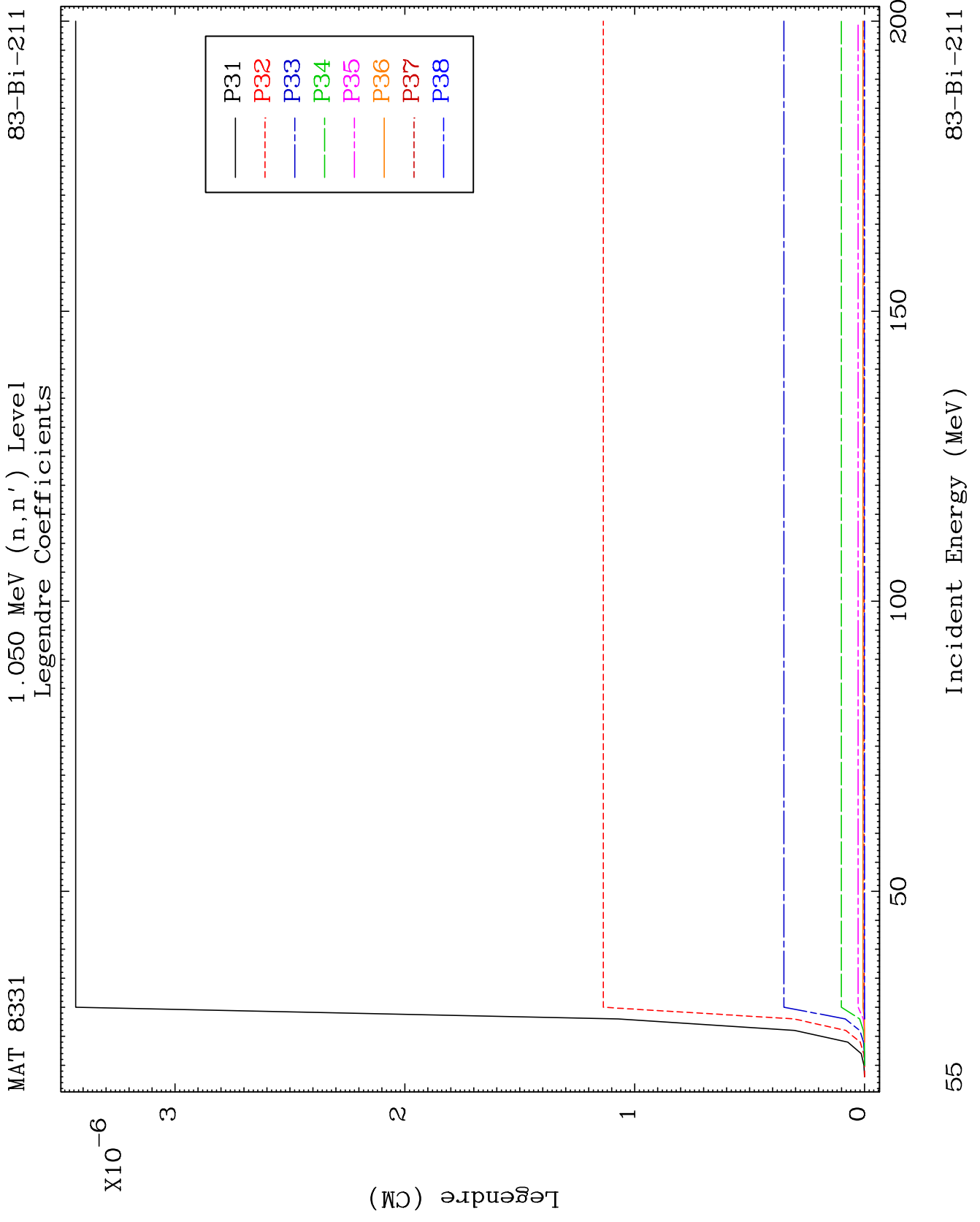
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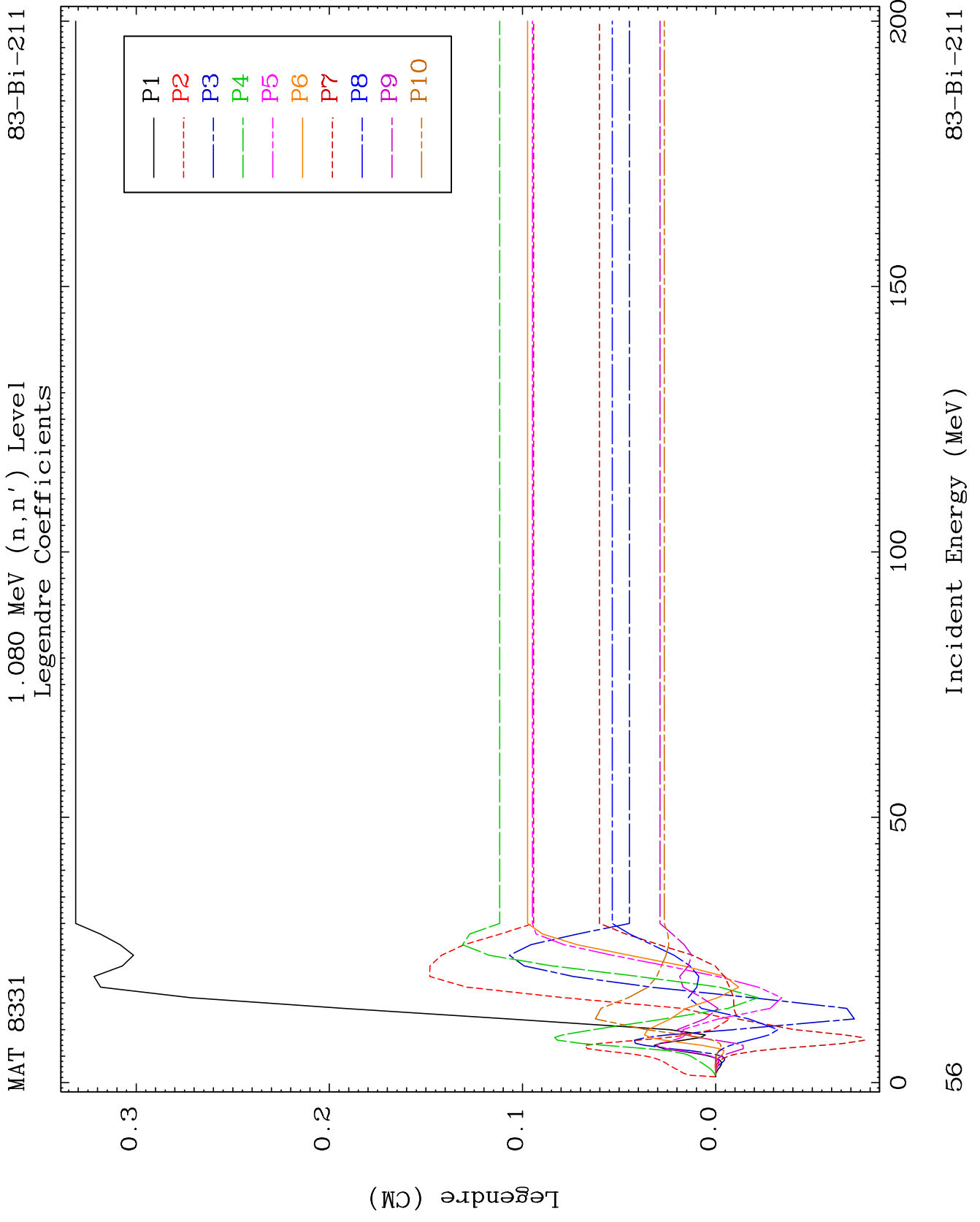
Incident Energy (MeV)

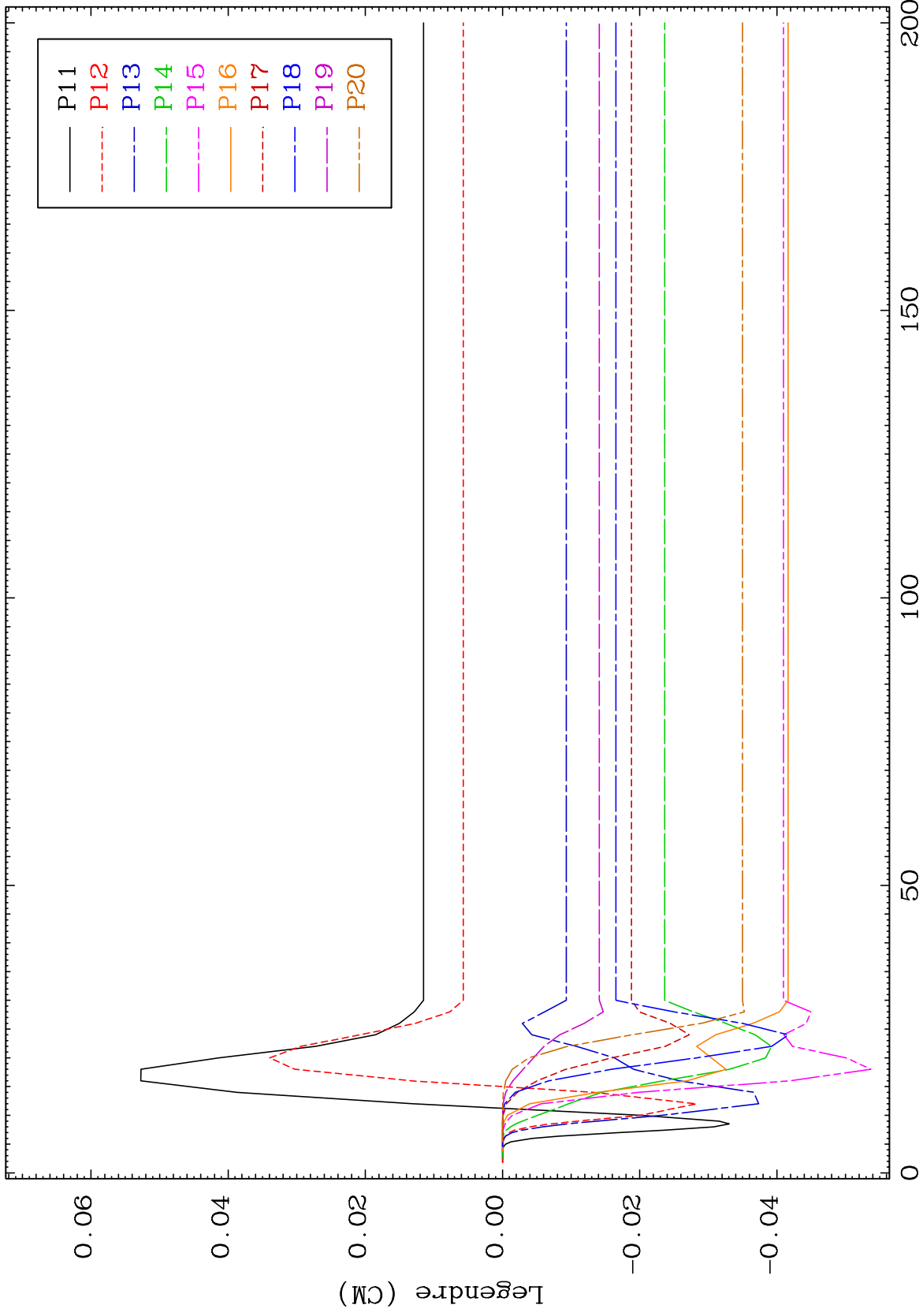
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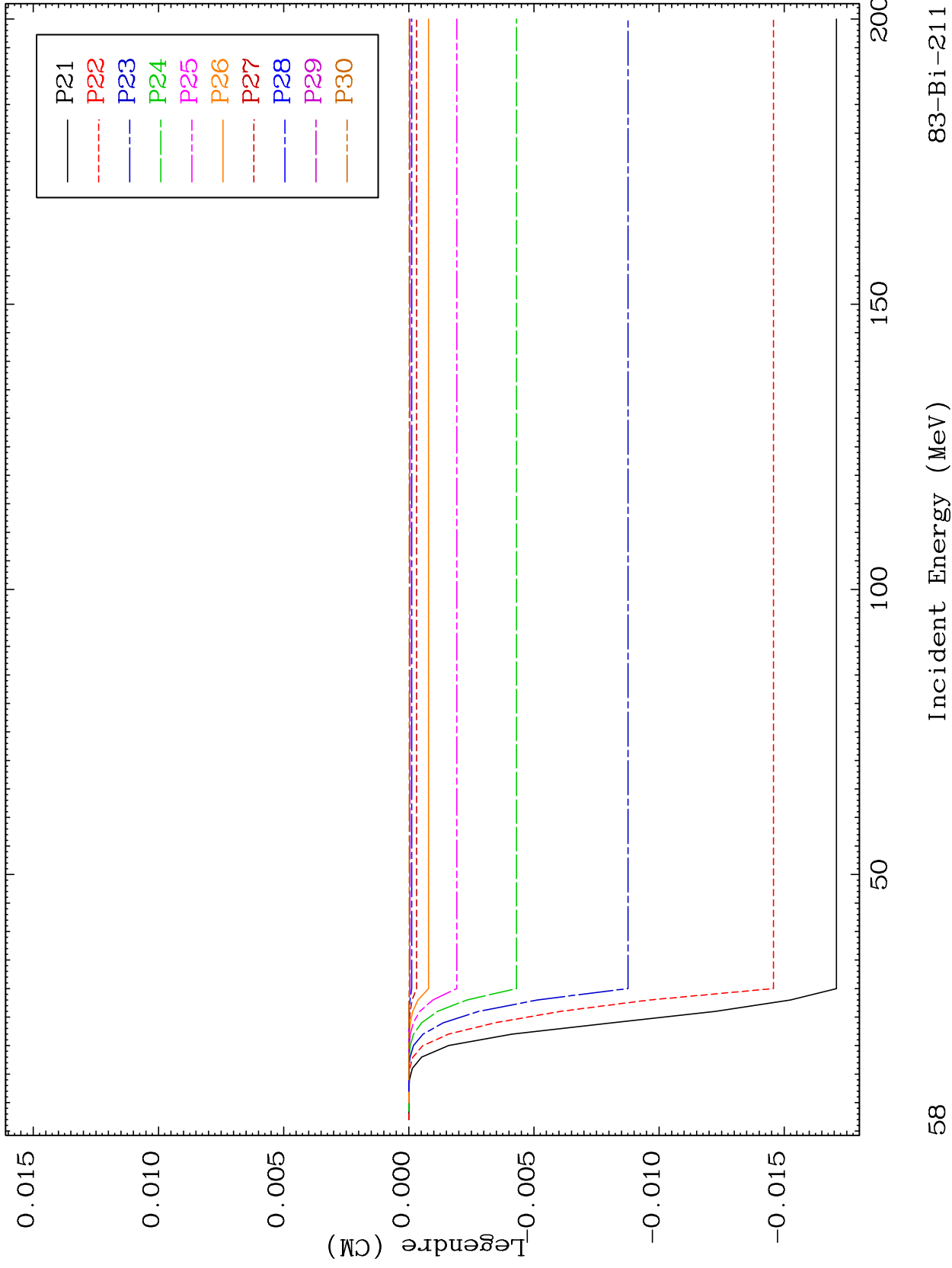


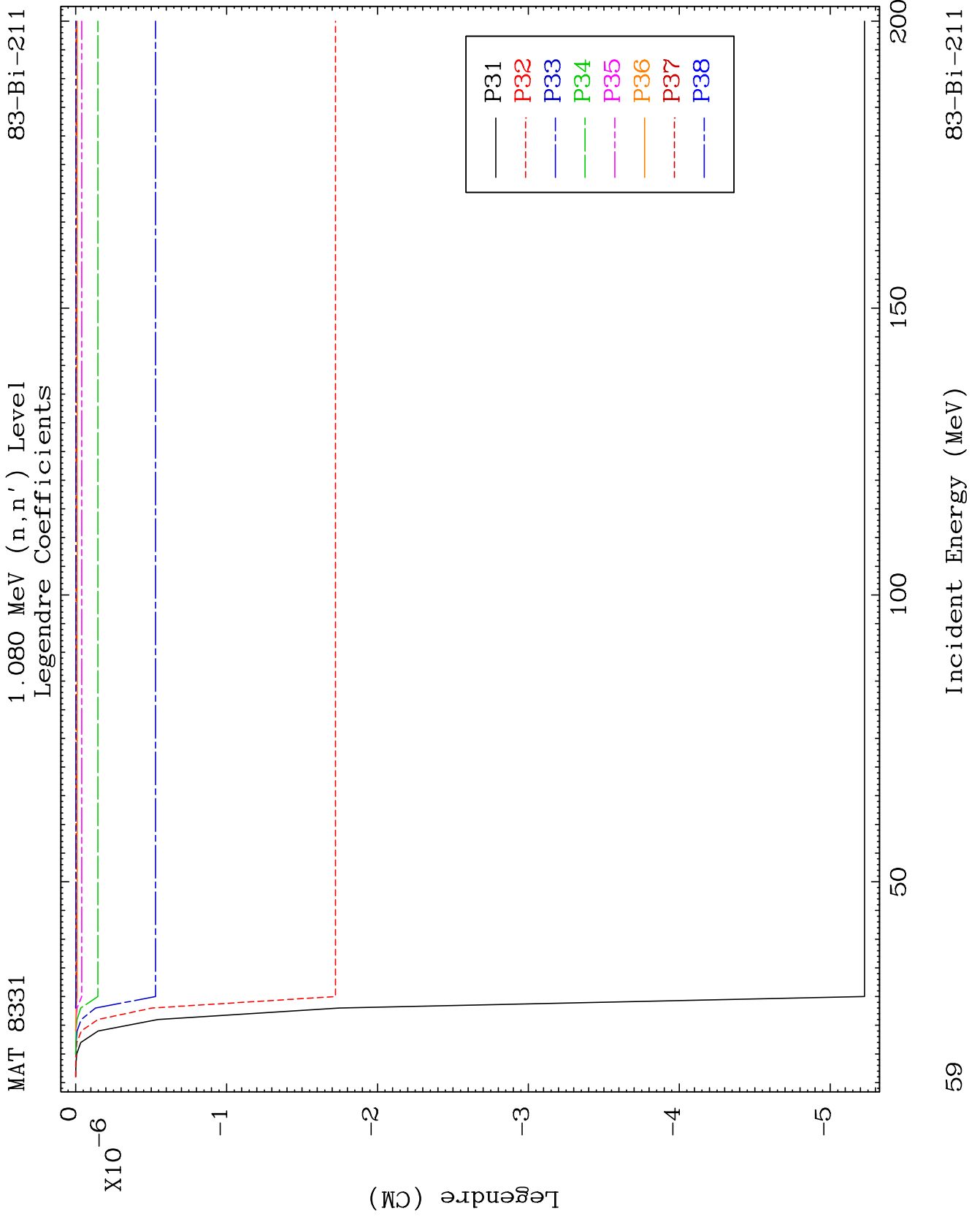


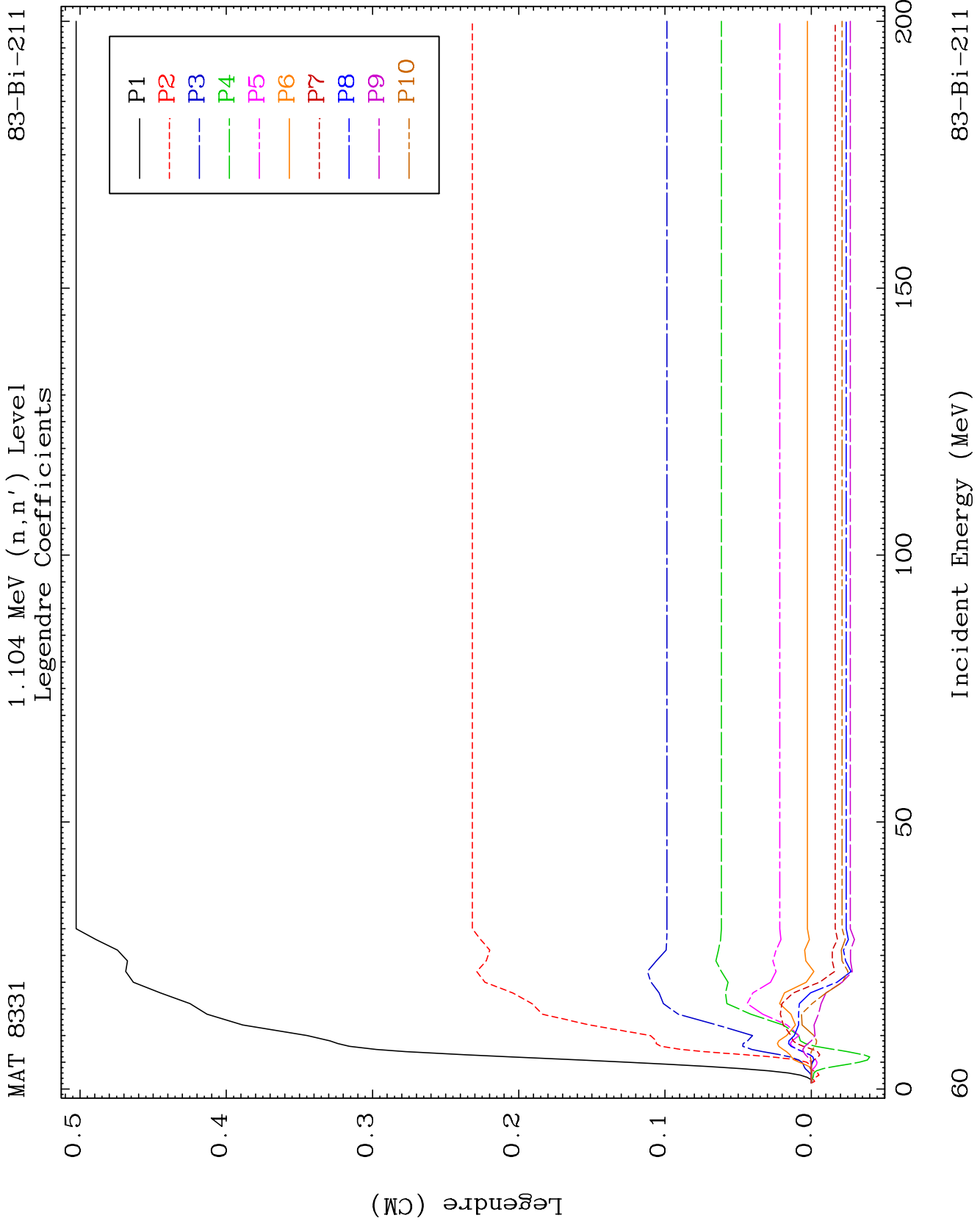








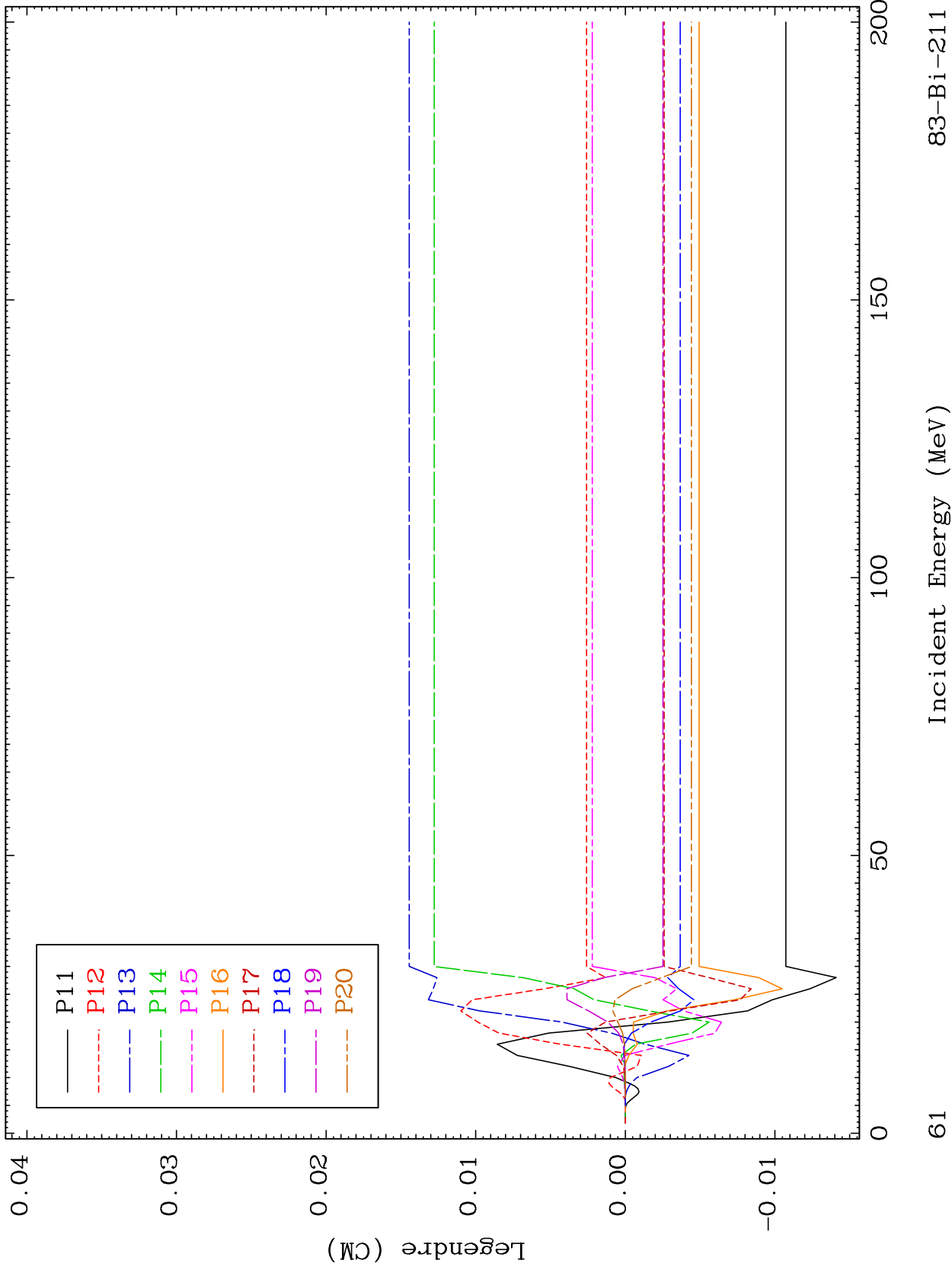




MAT 8331

1.104 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



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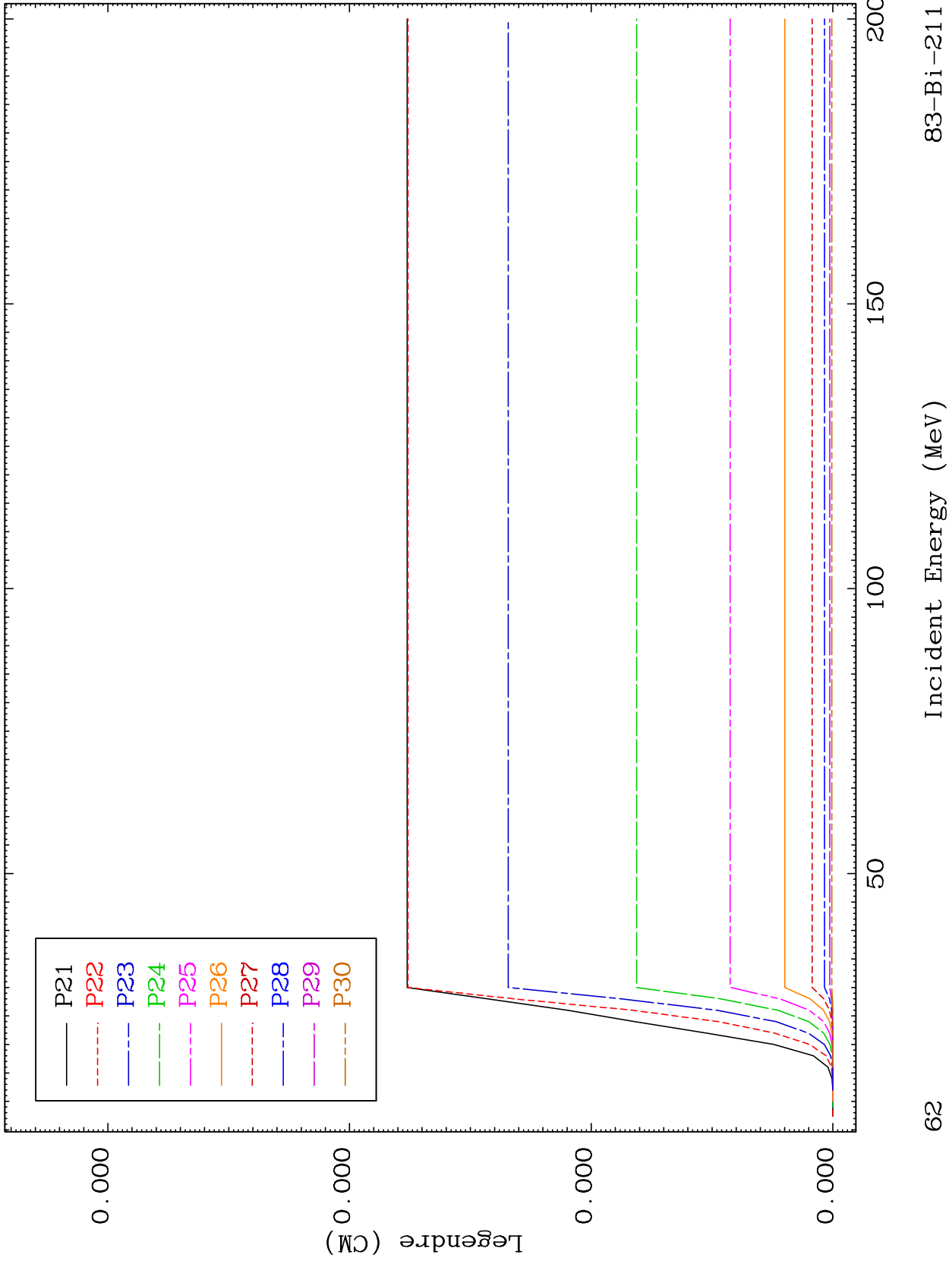
Incident Energy (MeV)

83-Bi-211

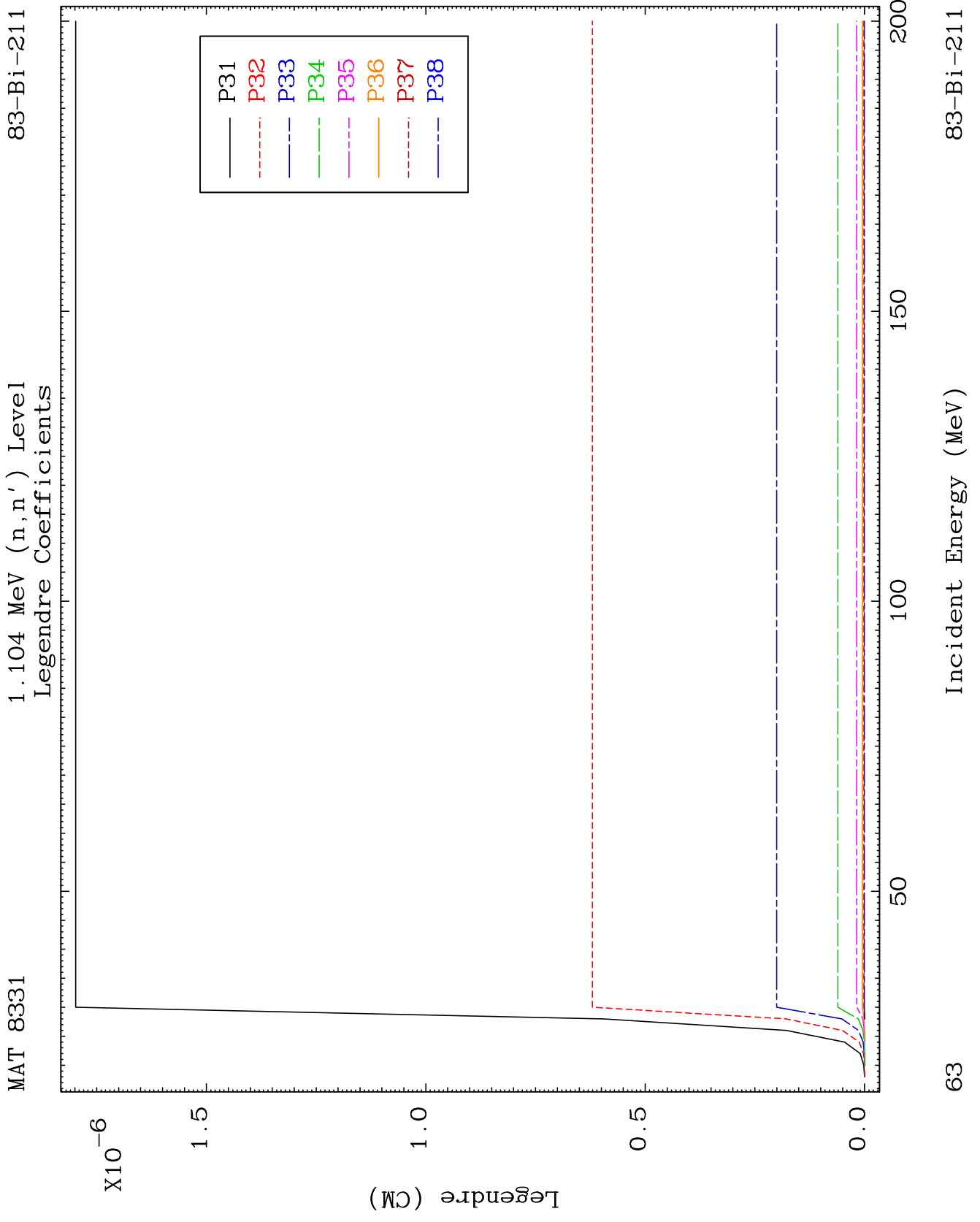
MAT 8331

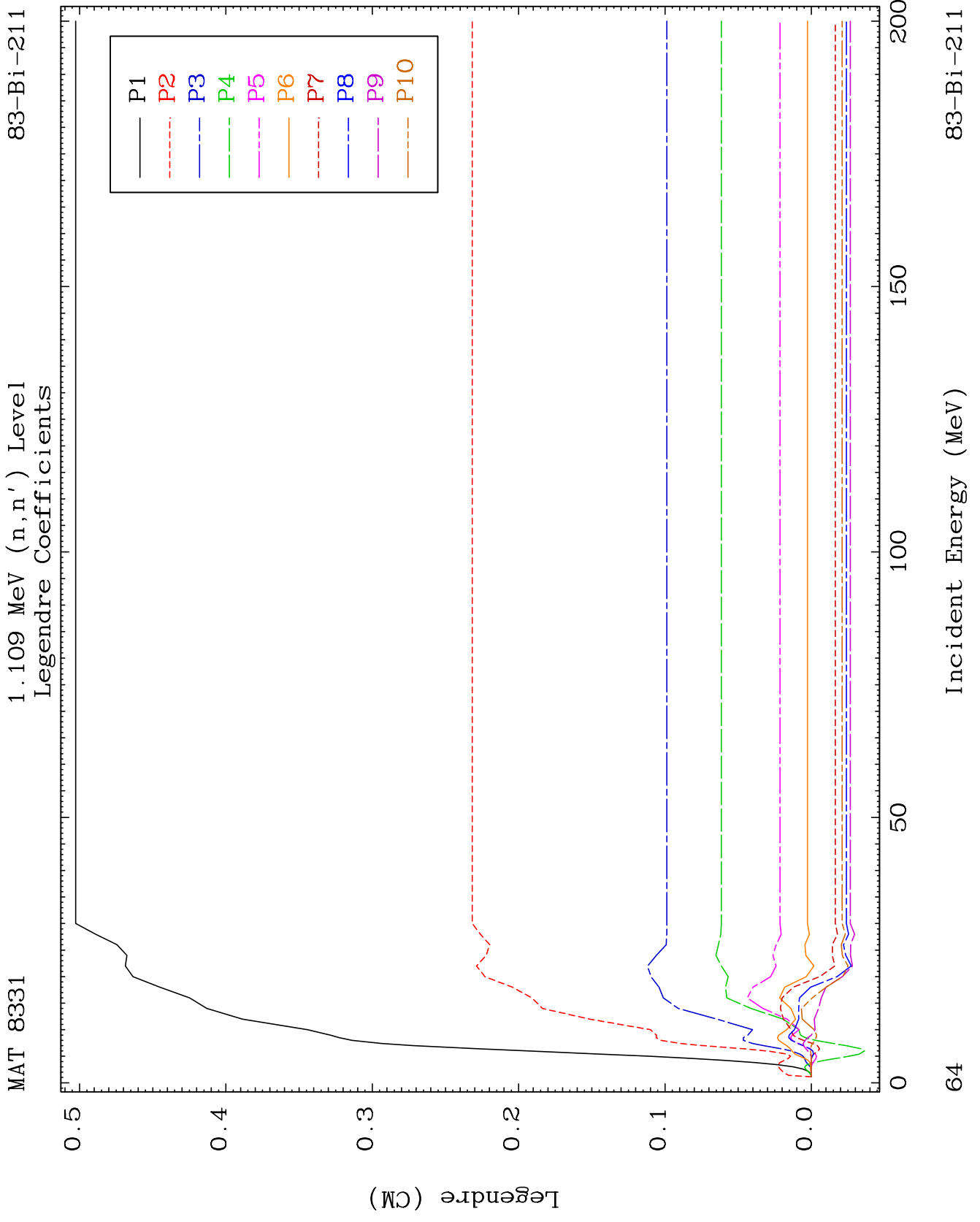
1.104 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



62

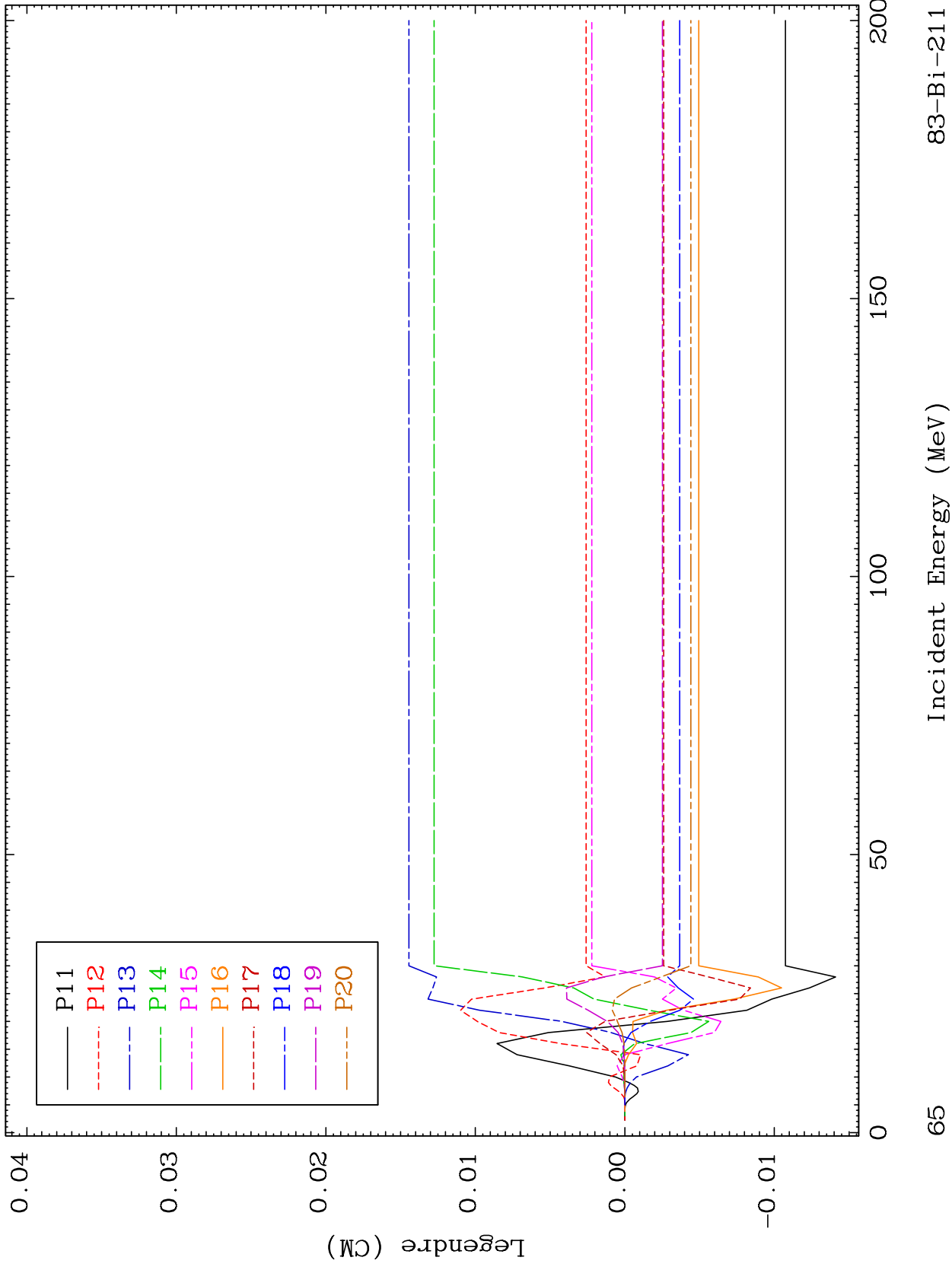




MAT 8331

1.109 MeV (n,n') Level
Legendre Coefficients

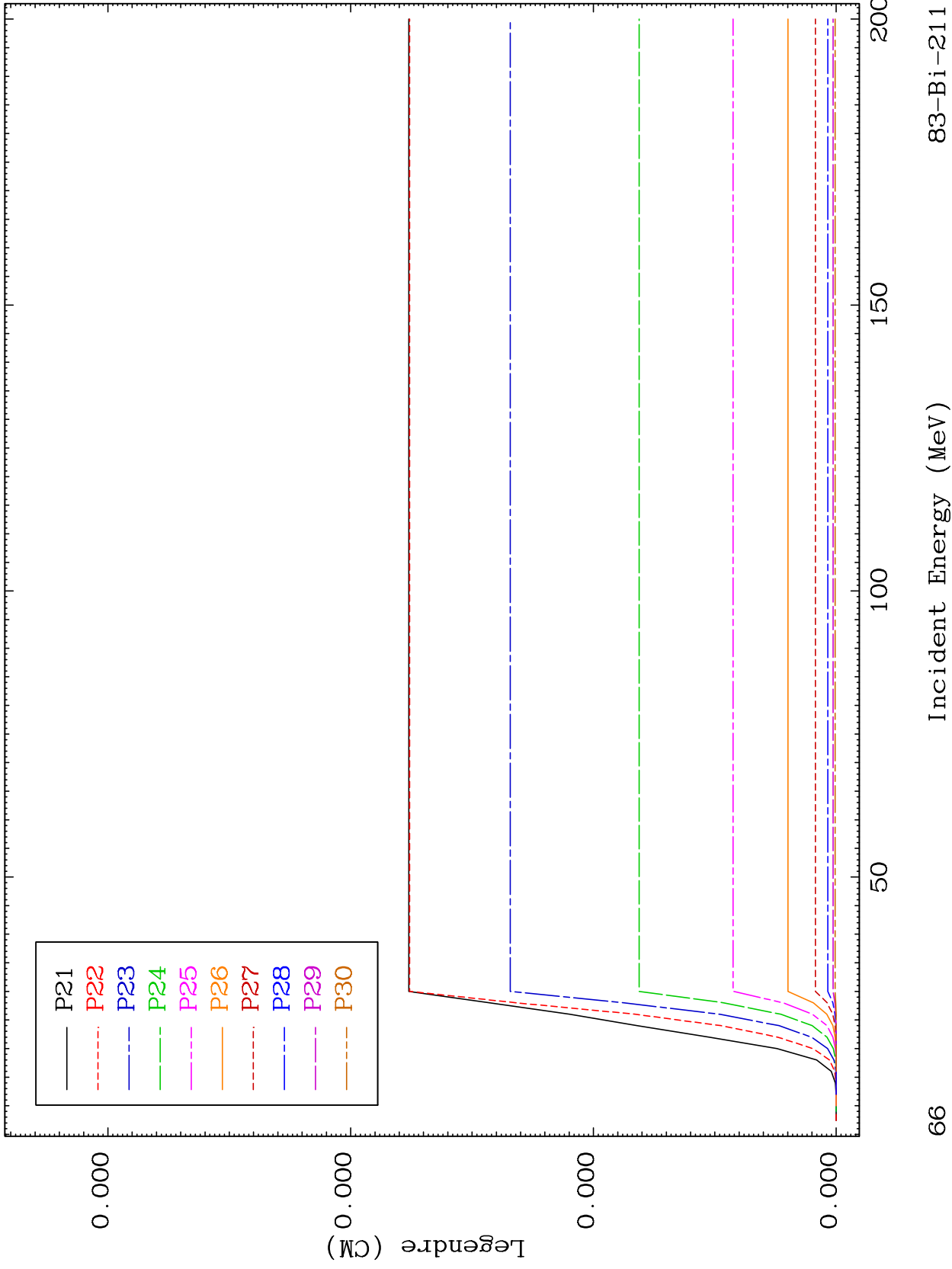
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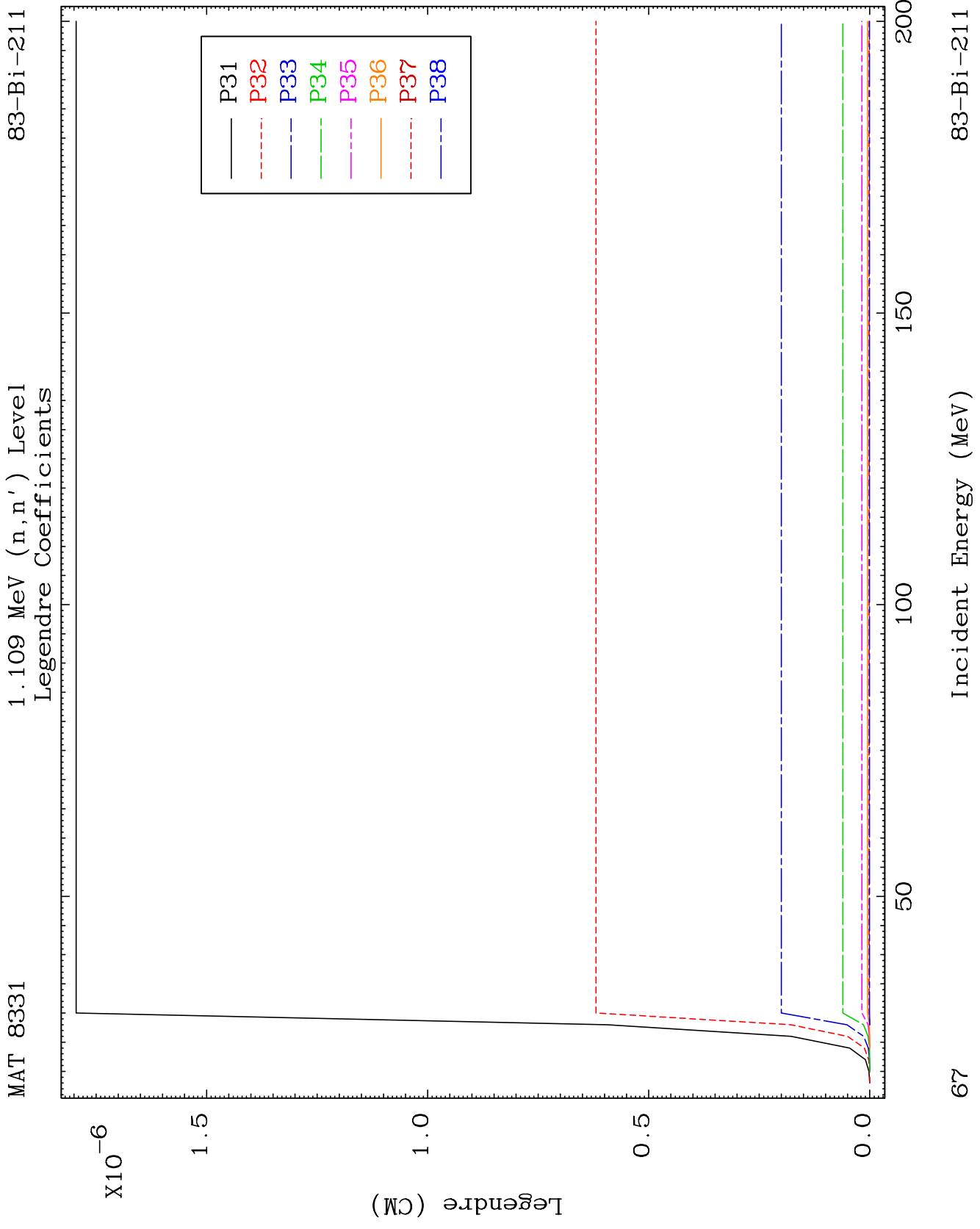


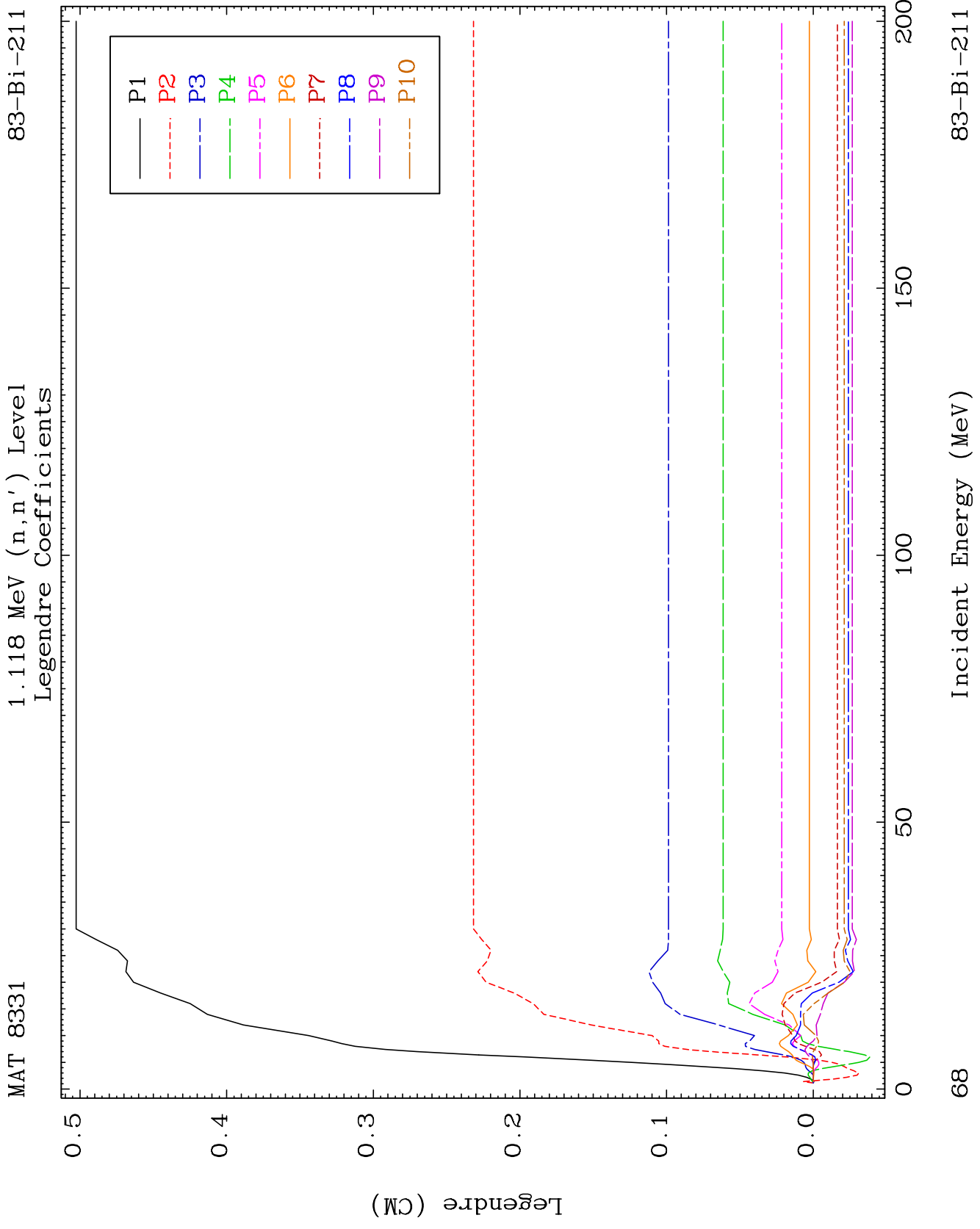
83-Bi-211

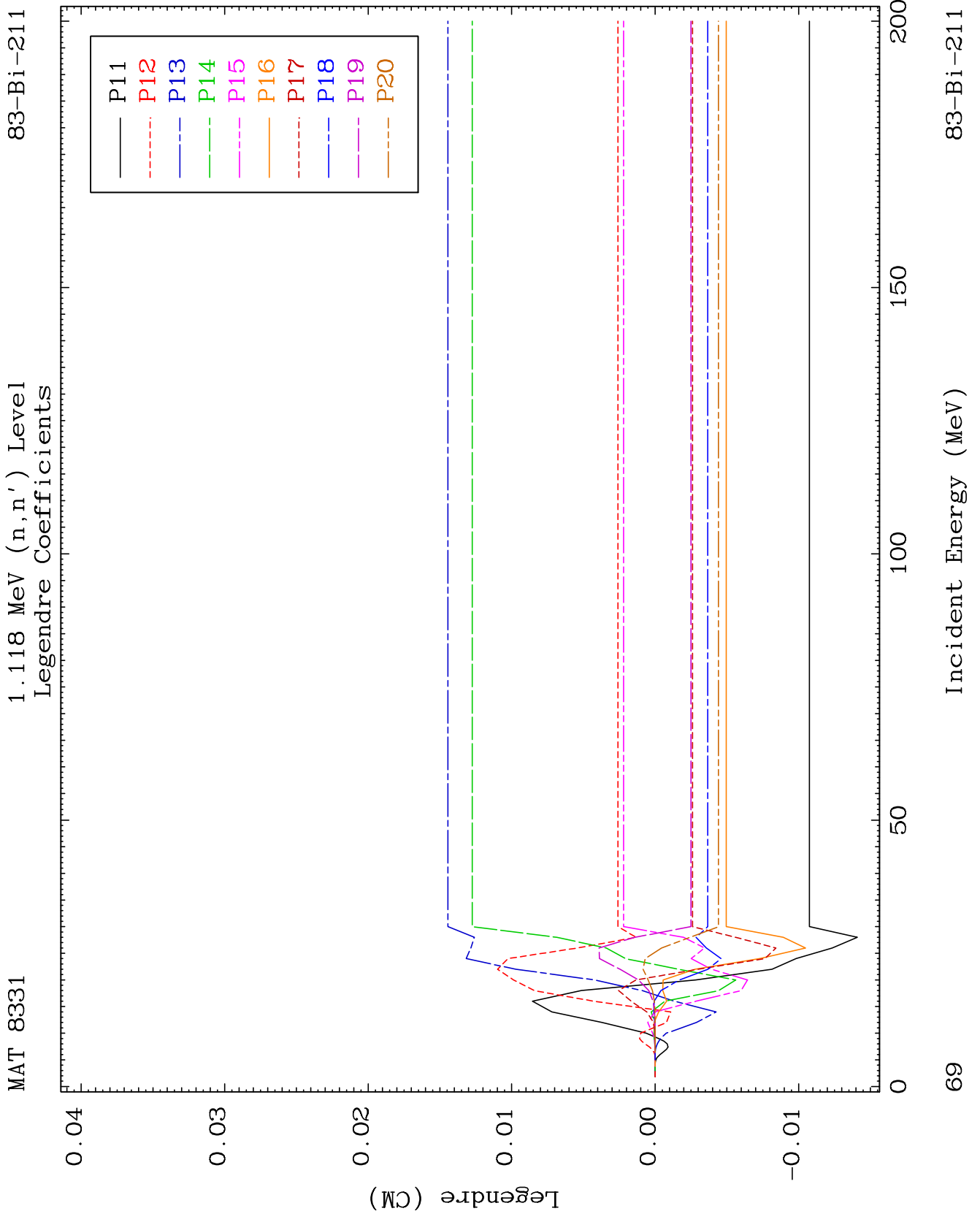
Incident Energy (MeV)

65





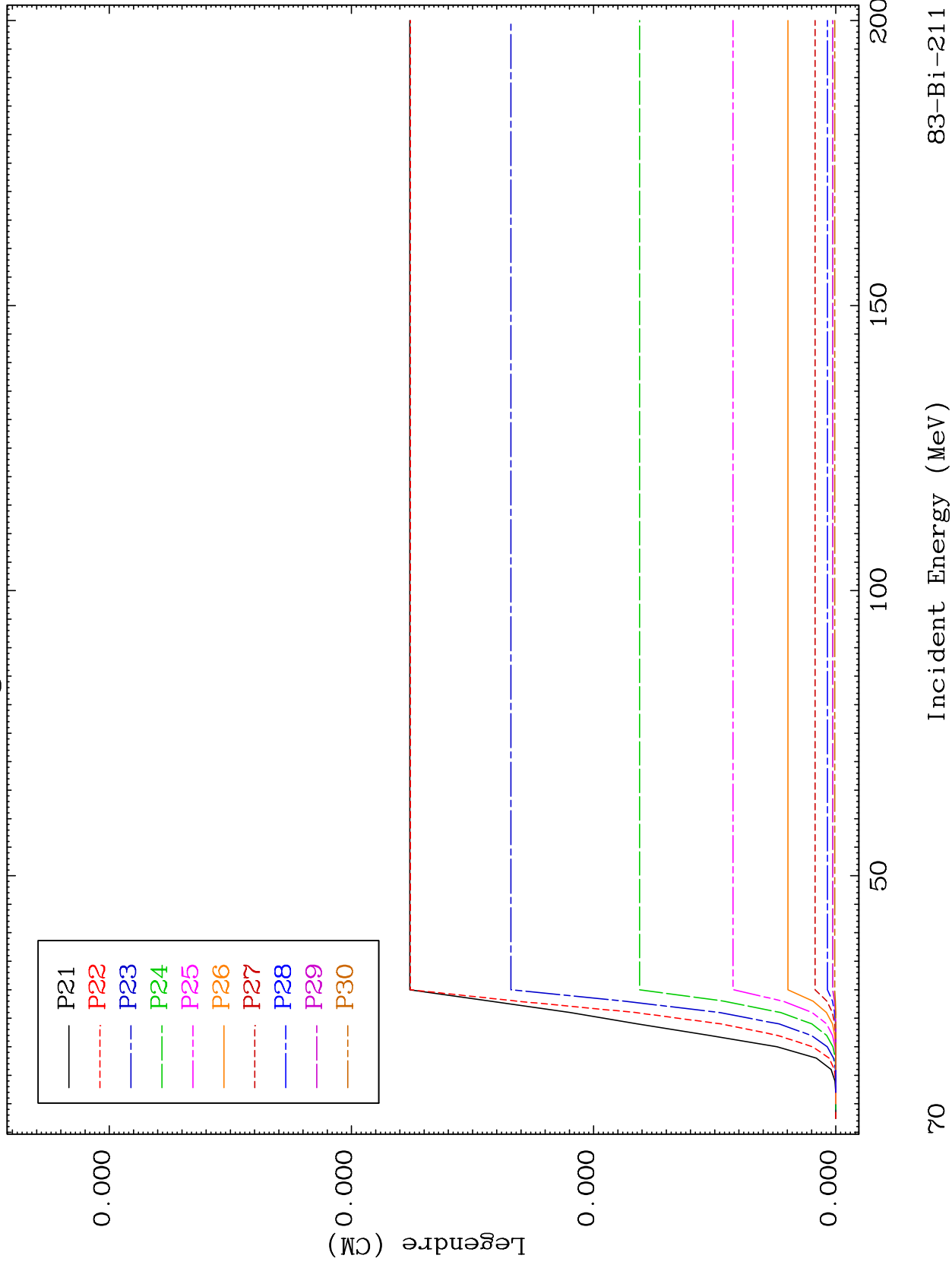




MAT 8331

1.118 MeV (n,n') Level
Legendre Coefficients

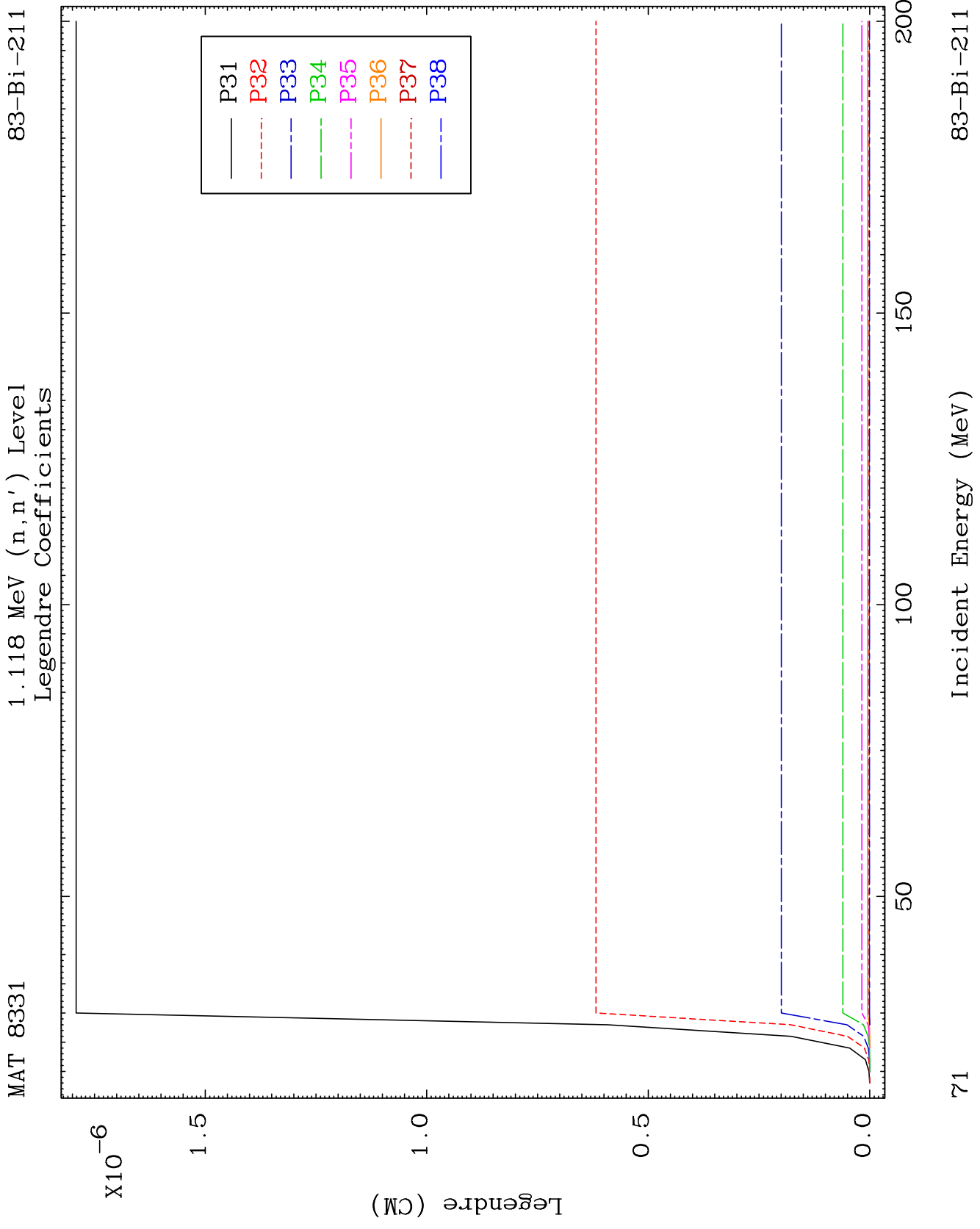
83-Bi-211



70

Incident Energy (MeV)

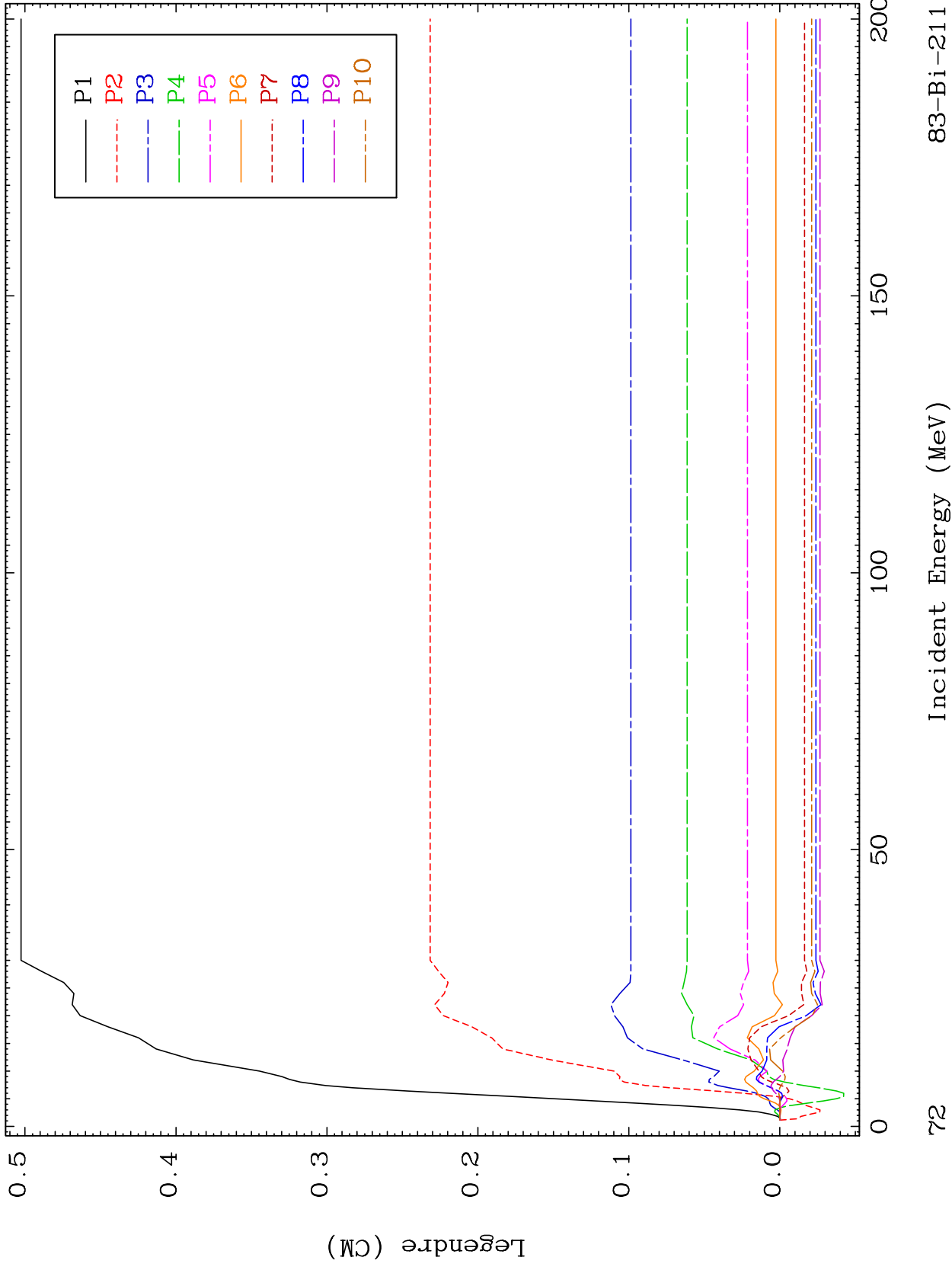
83-Bi-211



MAT 8331

1.130 MeV (n,n') Level
Legendre Coefficients

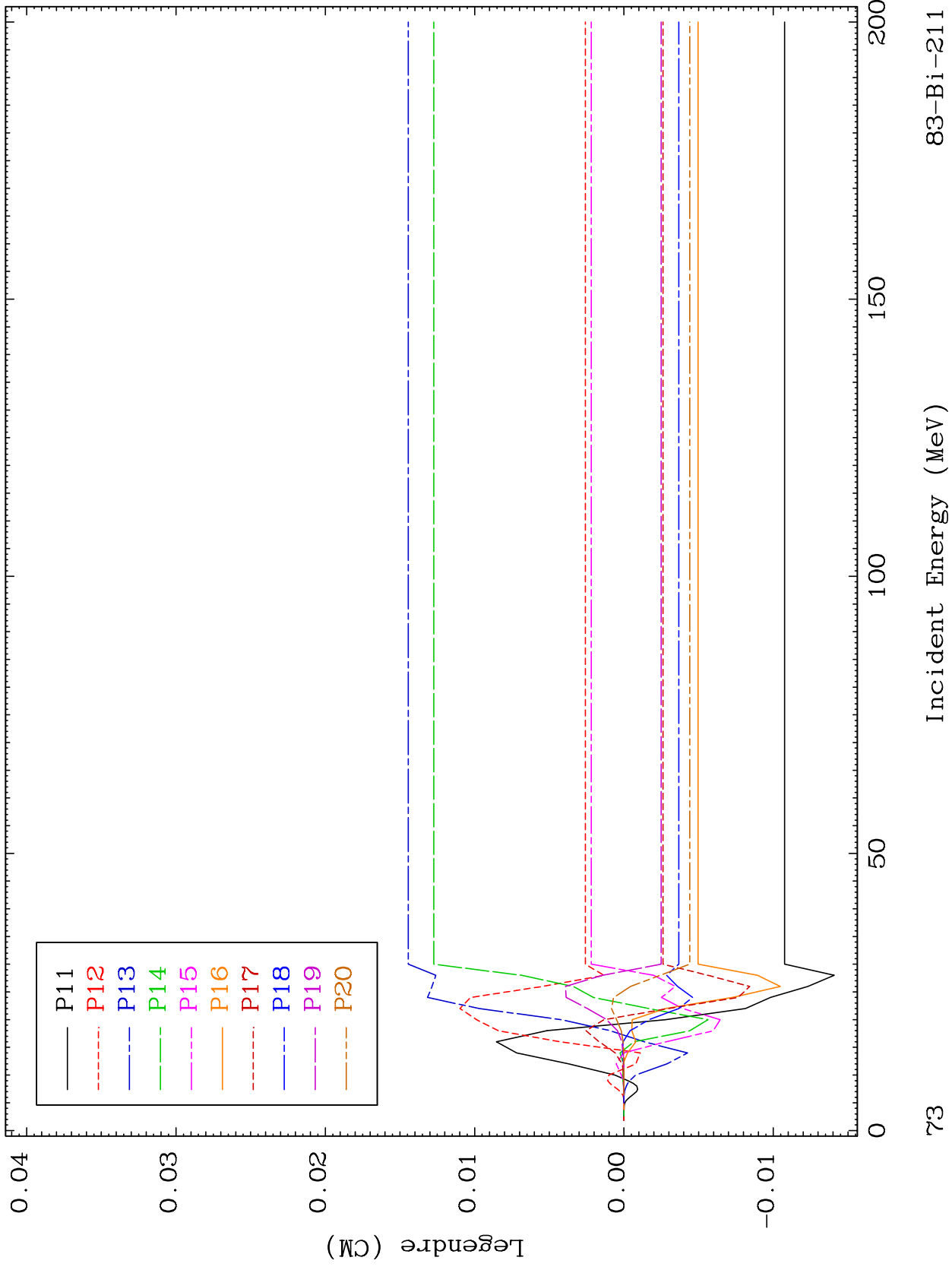
83-Bi-211



MAT 8331

1.130 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



83-Bi-211

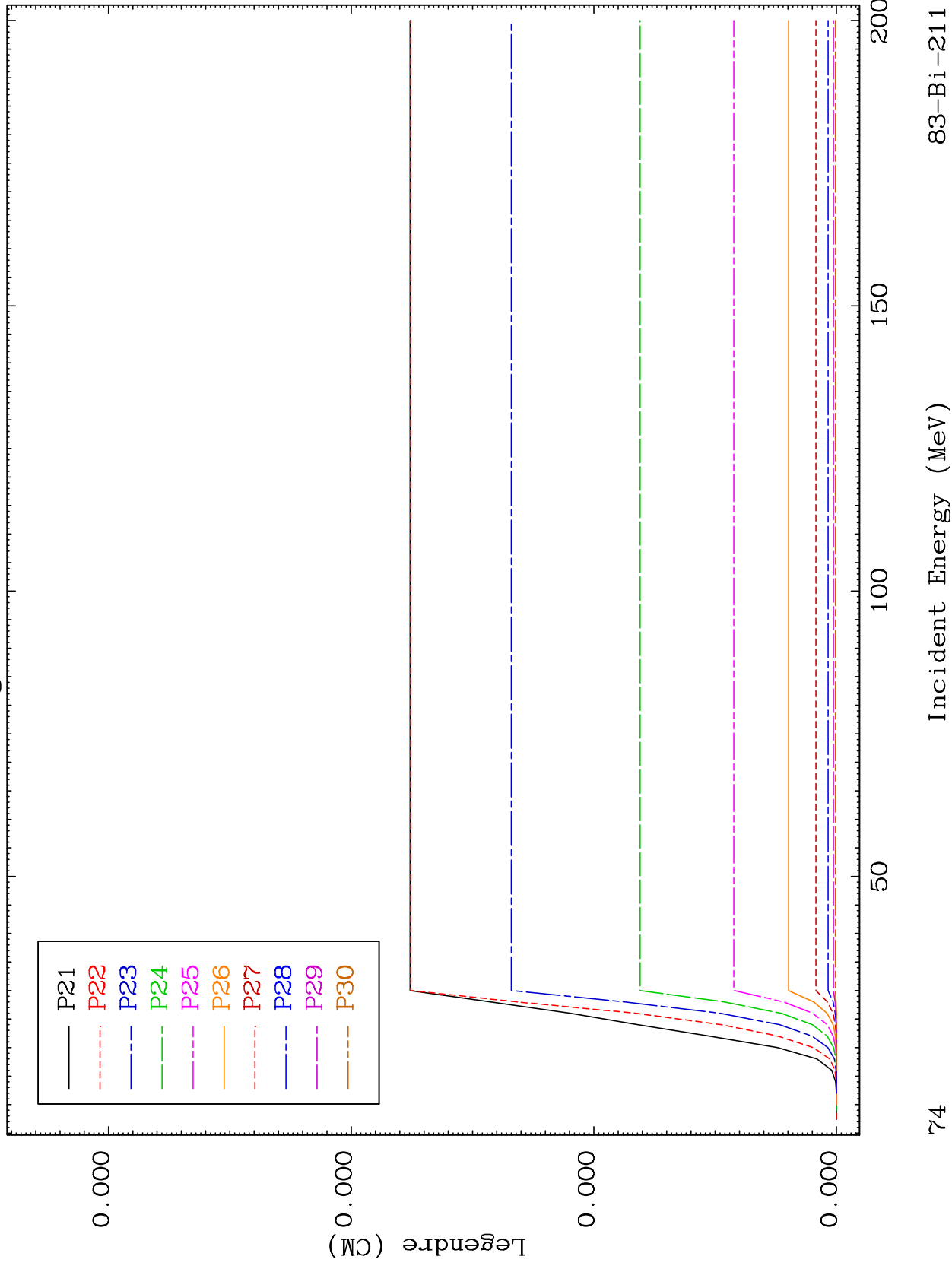
Incident Energy (MeV)

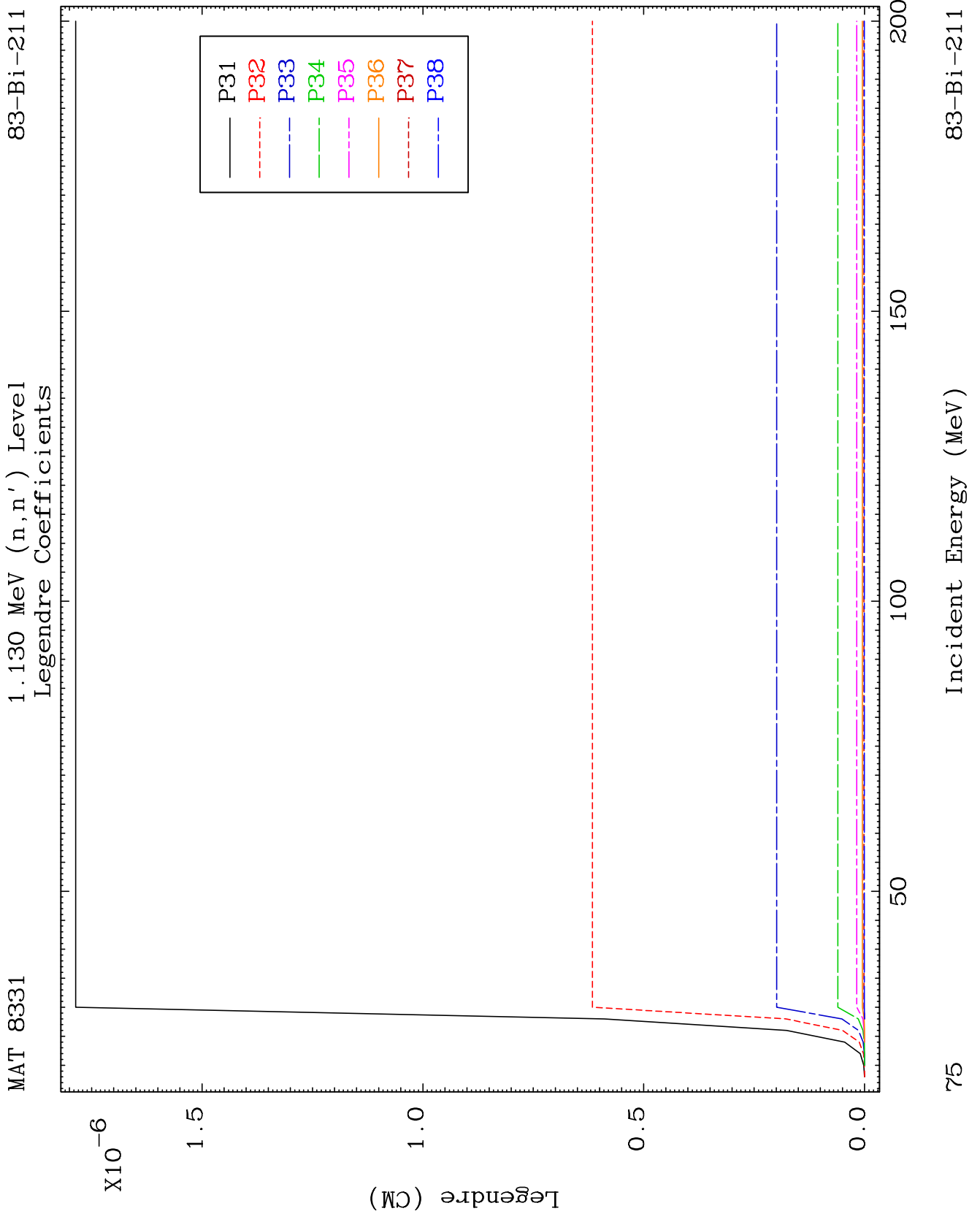
73

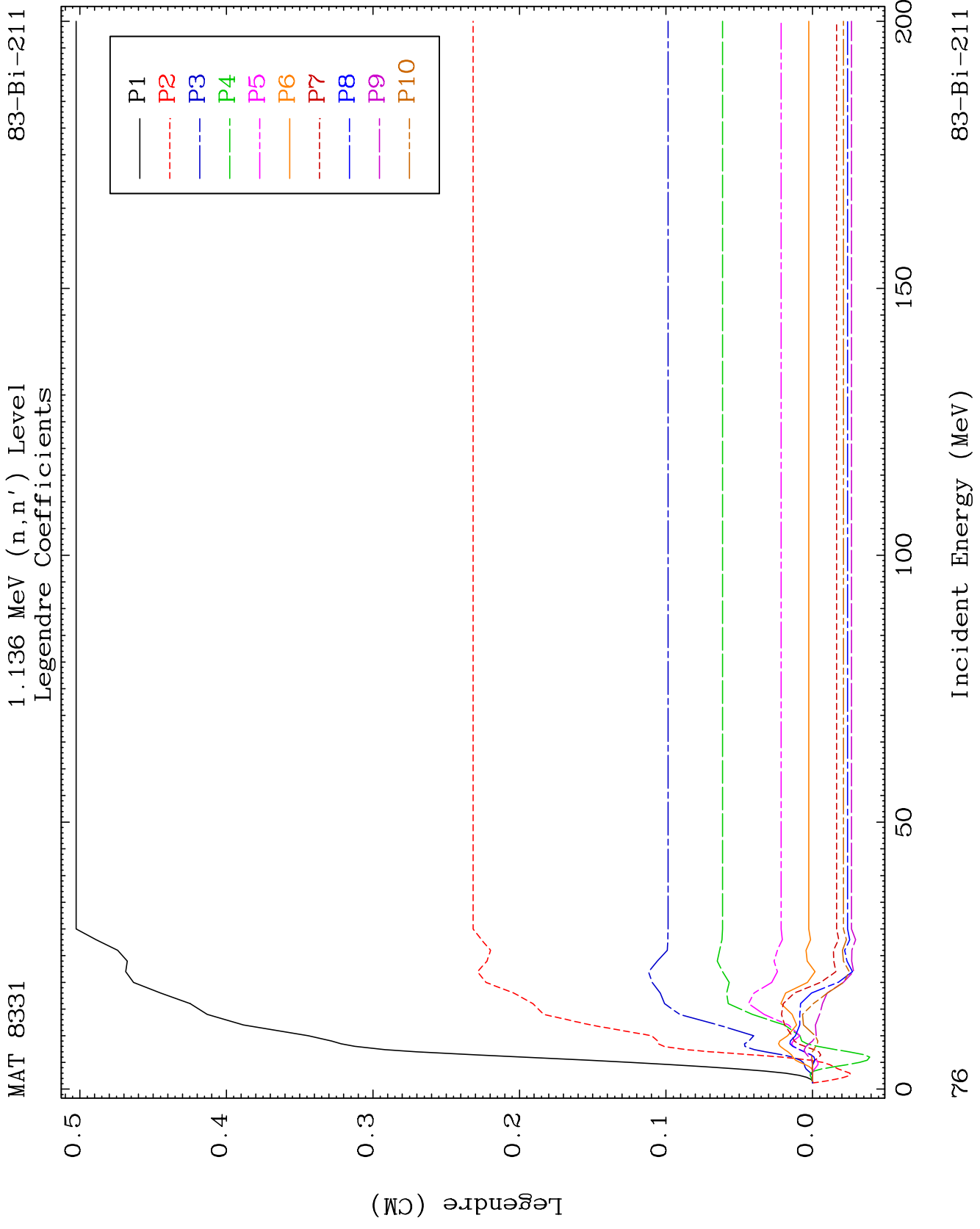
MAT 8331

1.130 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



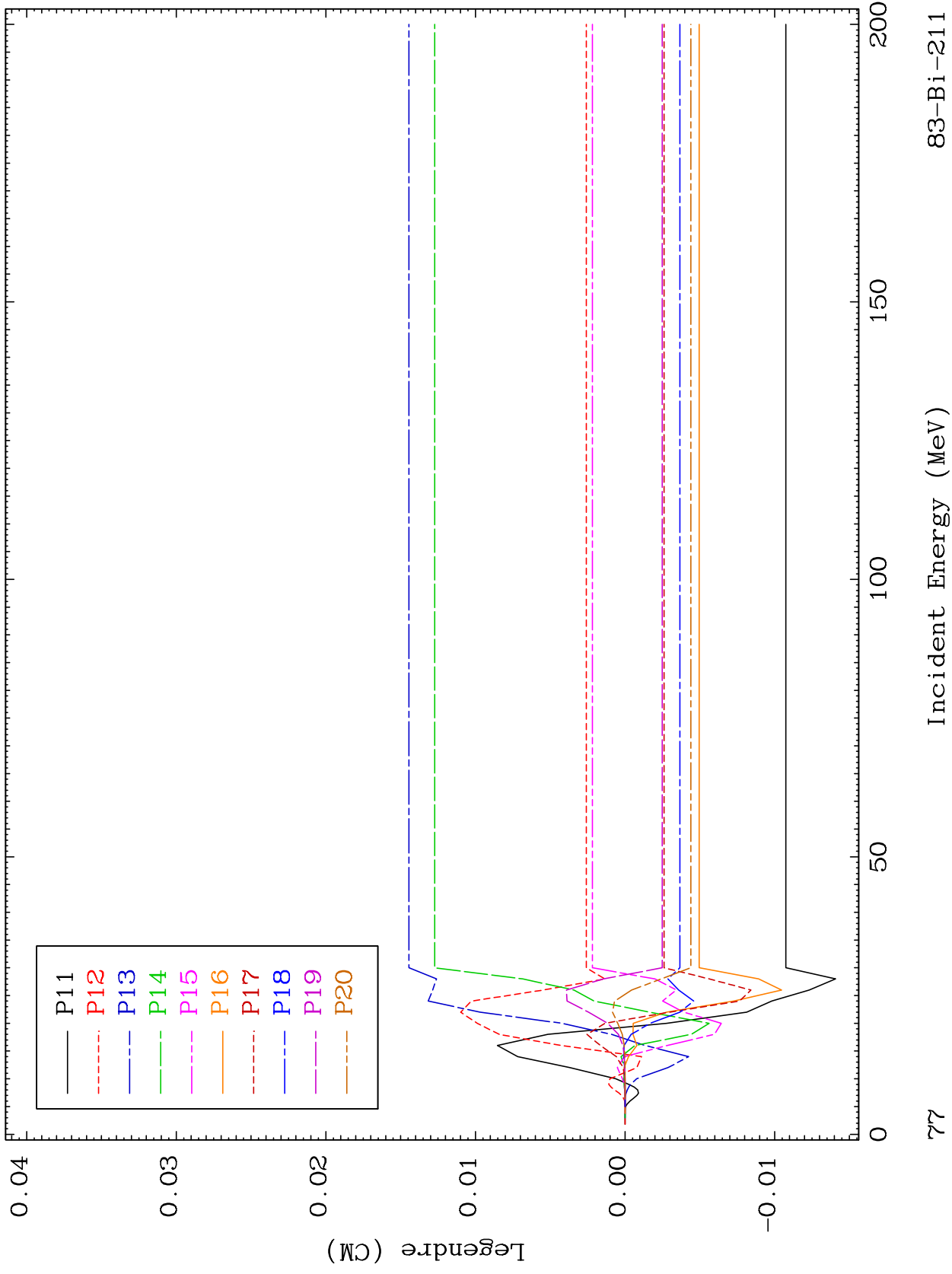




MAT 8331

1.136 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



77

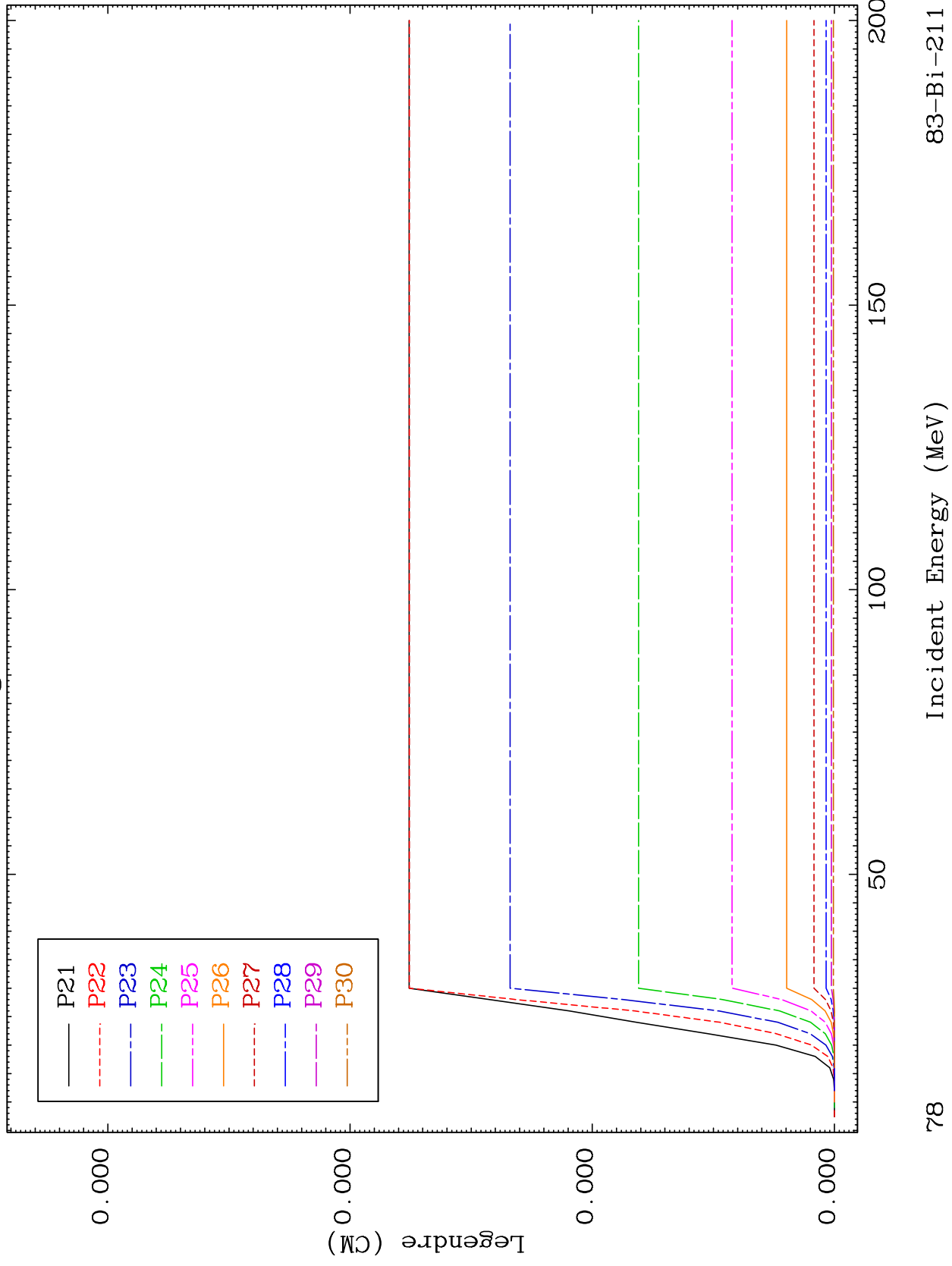
Incident Energy (MeV)

83-Bi-211

MAT 8331

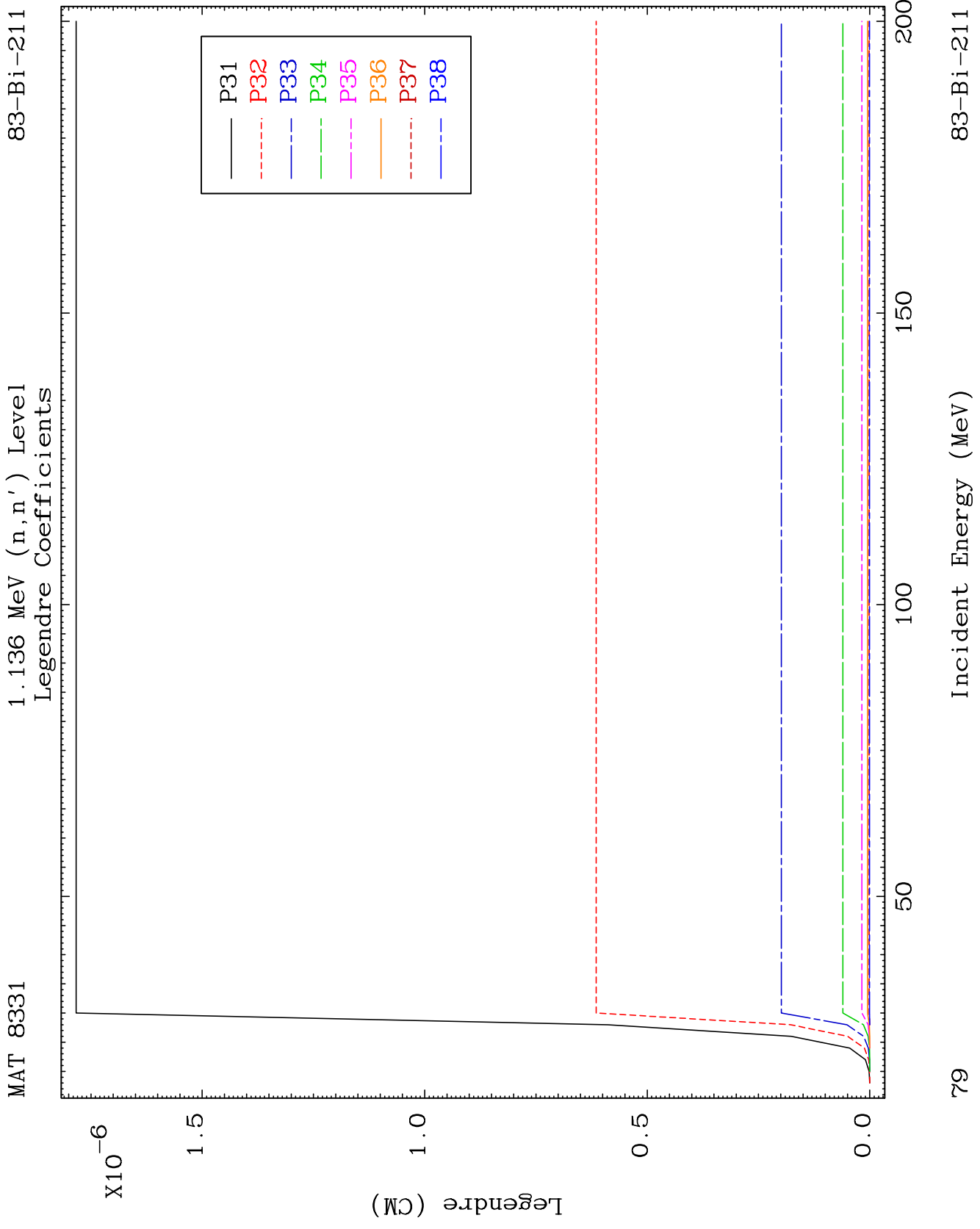
1.136 MeV (n,n') Level
Legendre Coefficients

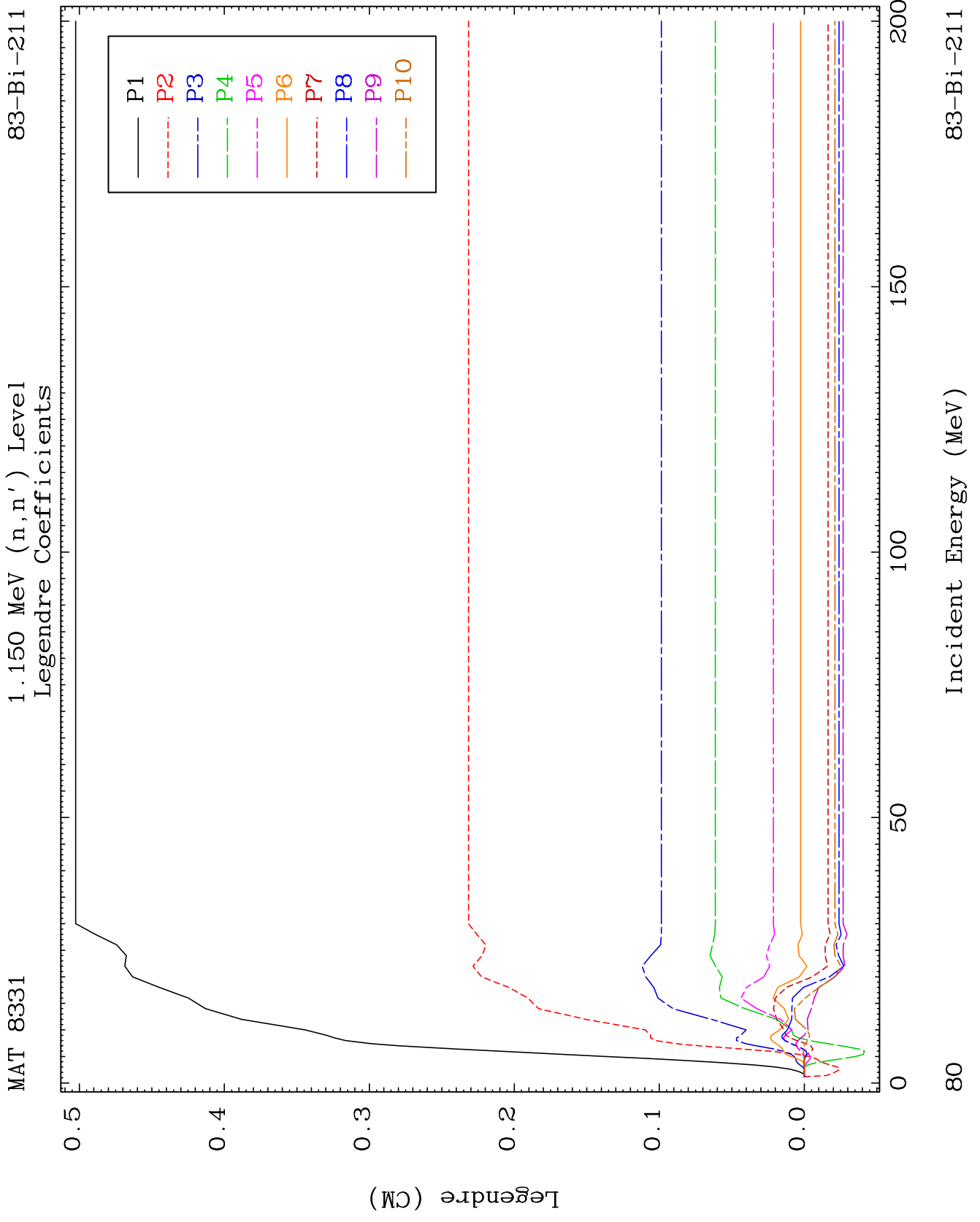
83-Bi-211



78

83-Bi-211

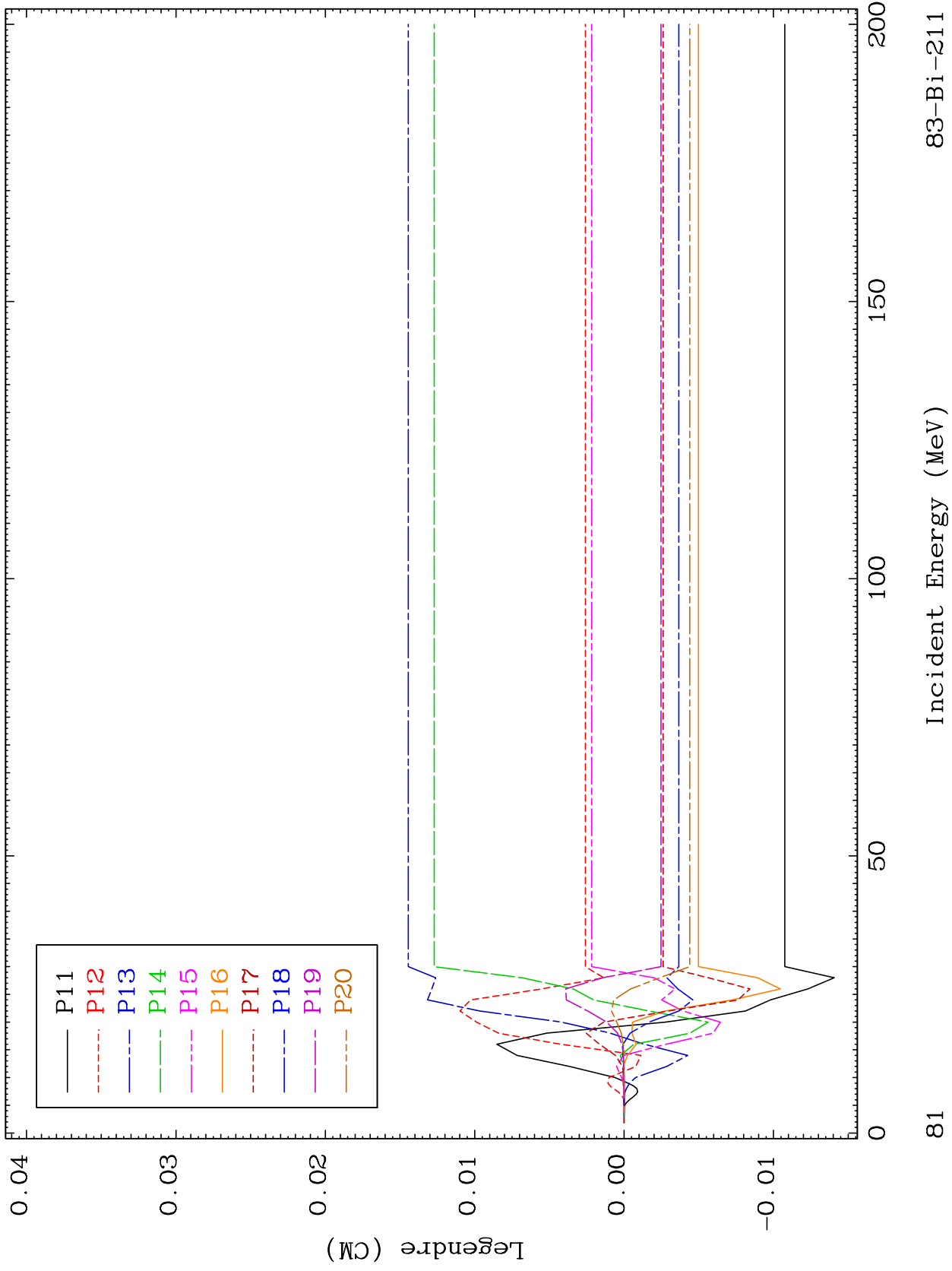




MAT 8331

1.150 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



81

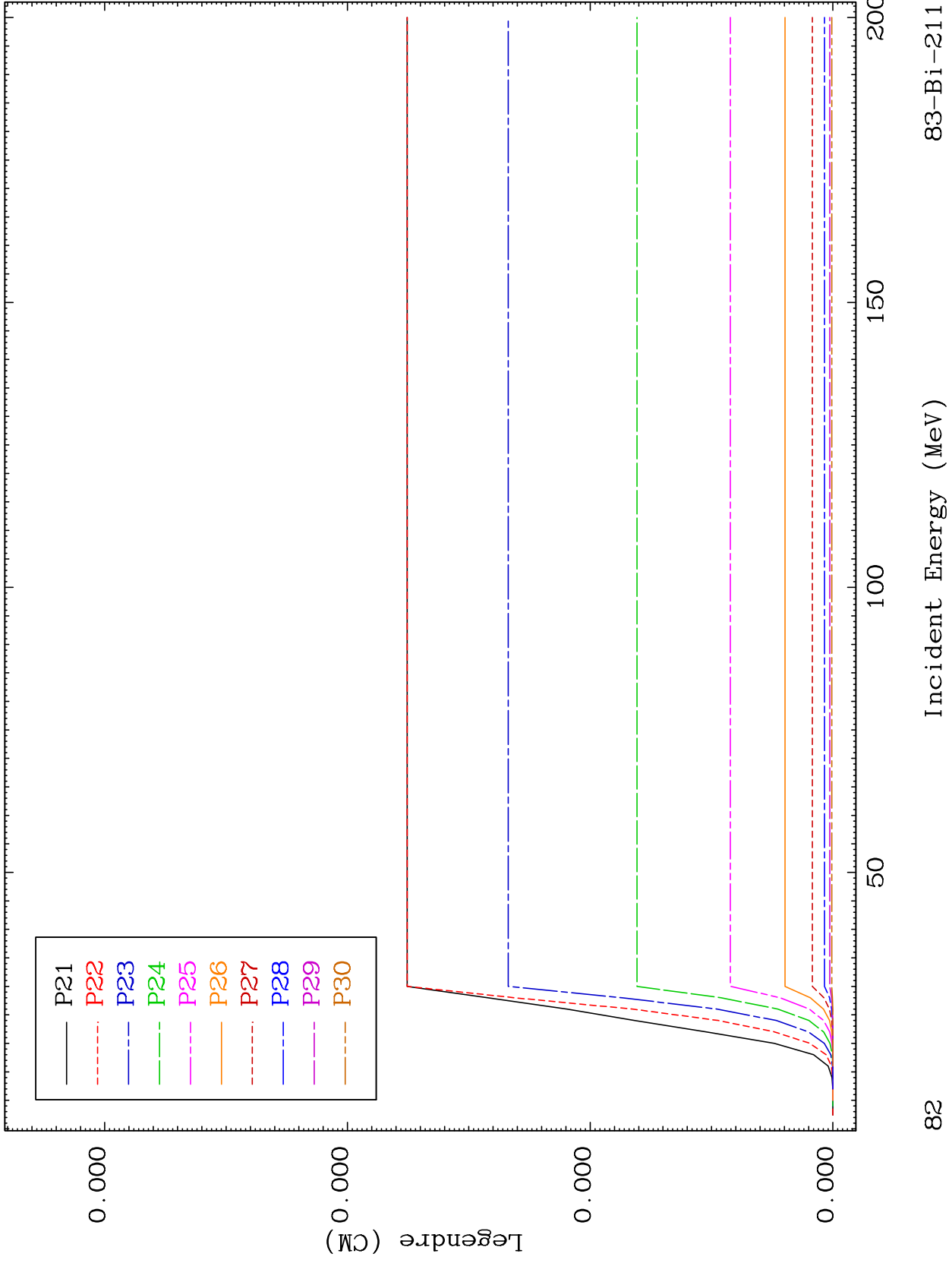
Incident Energy (MeV)

83-Bi-211

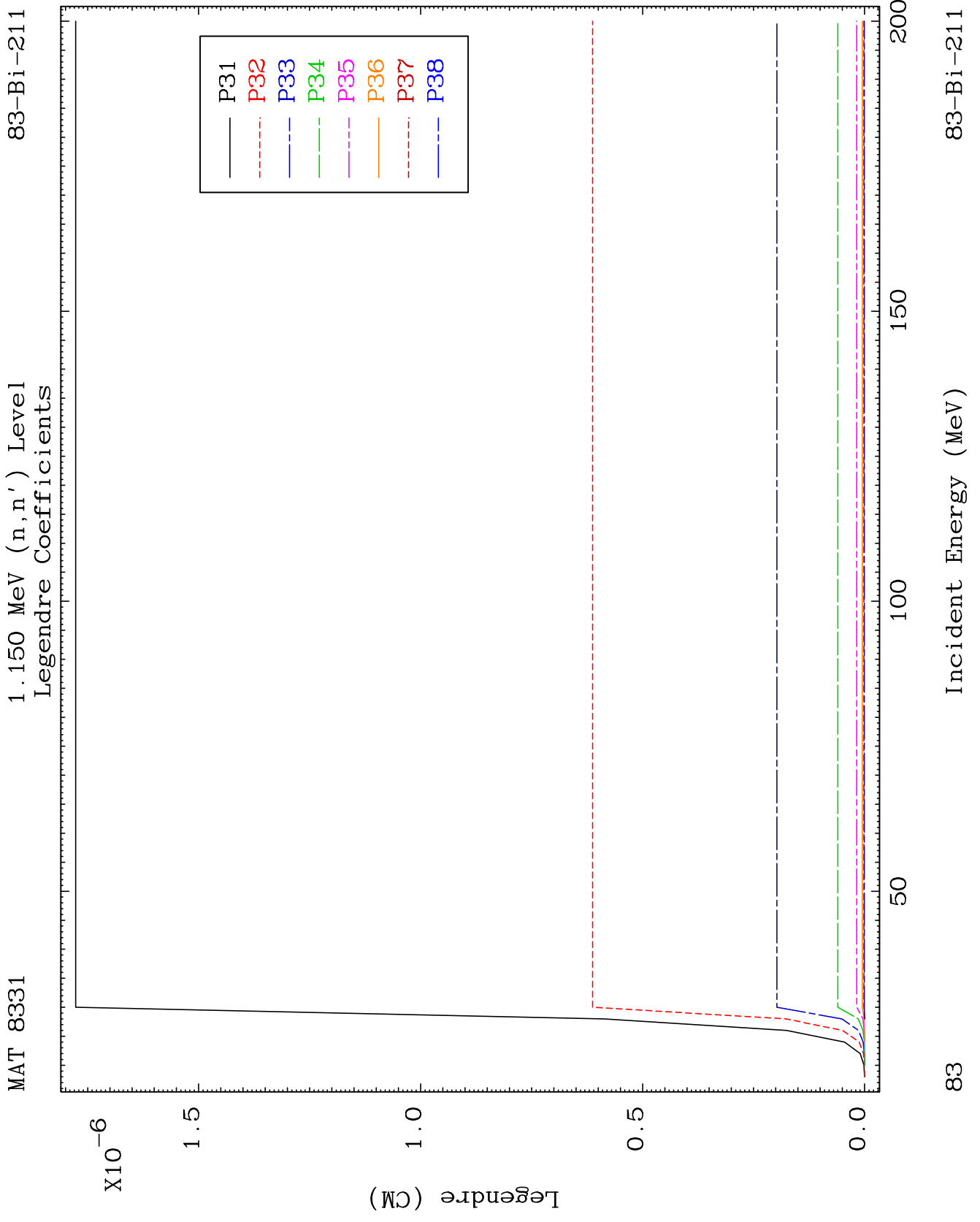
MAT 8331

1.150 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



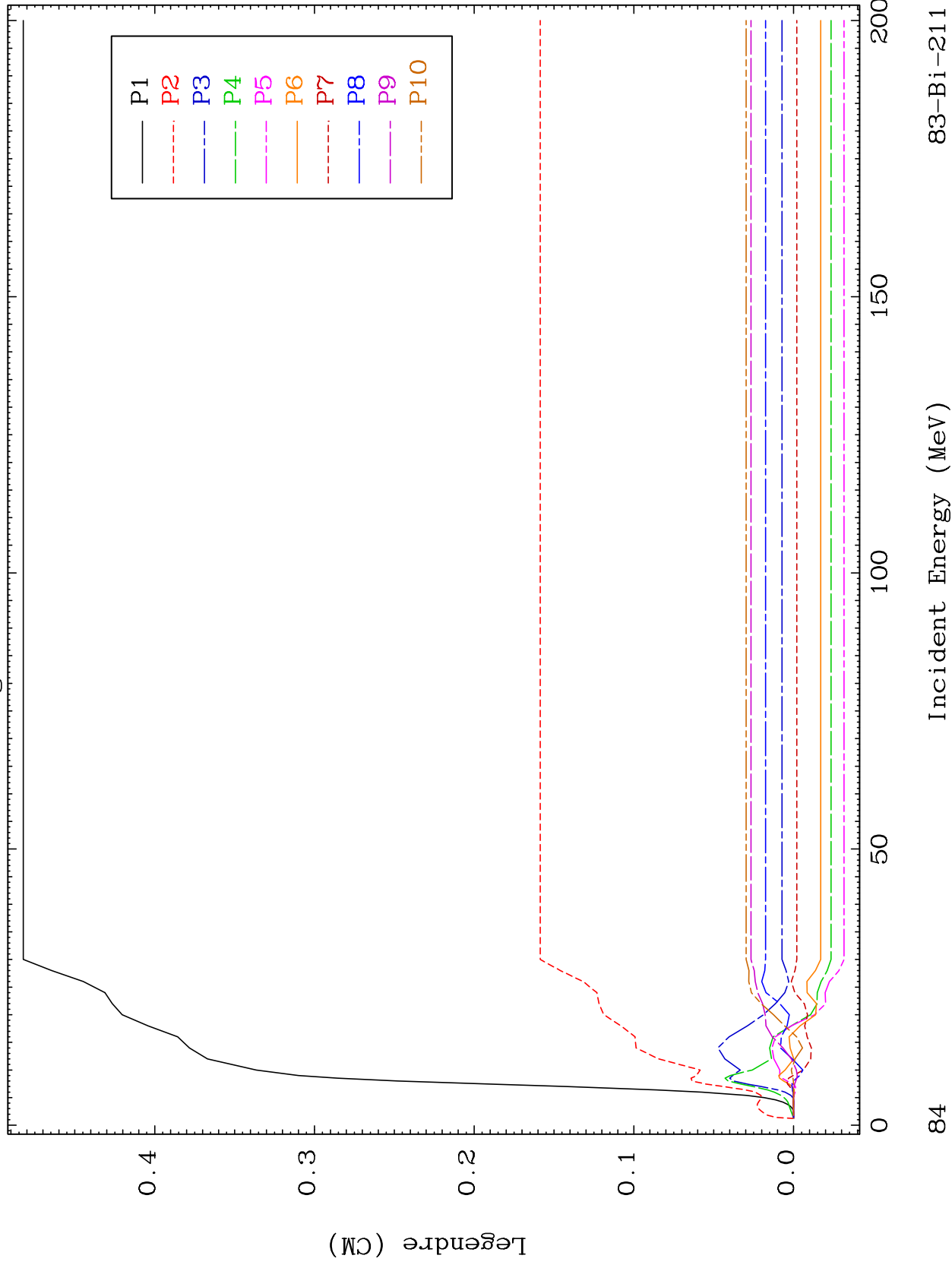
82



MAT 8331

1.196 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



84

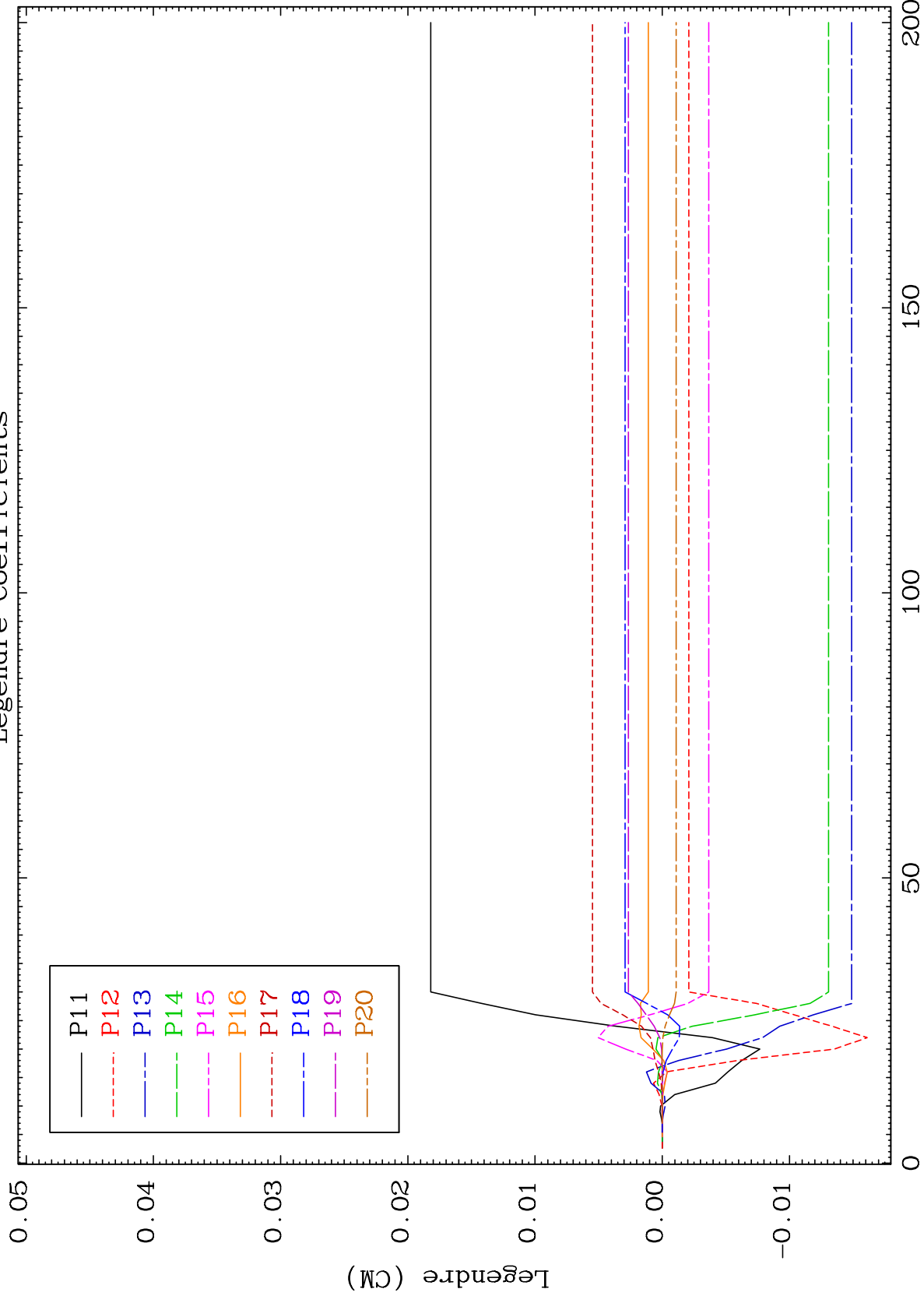
Incident Energy (MeV)

83-Bi-211

MAT 8331

1.196 MeV (n,n') Level
Legendre Coefficients

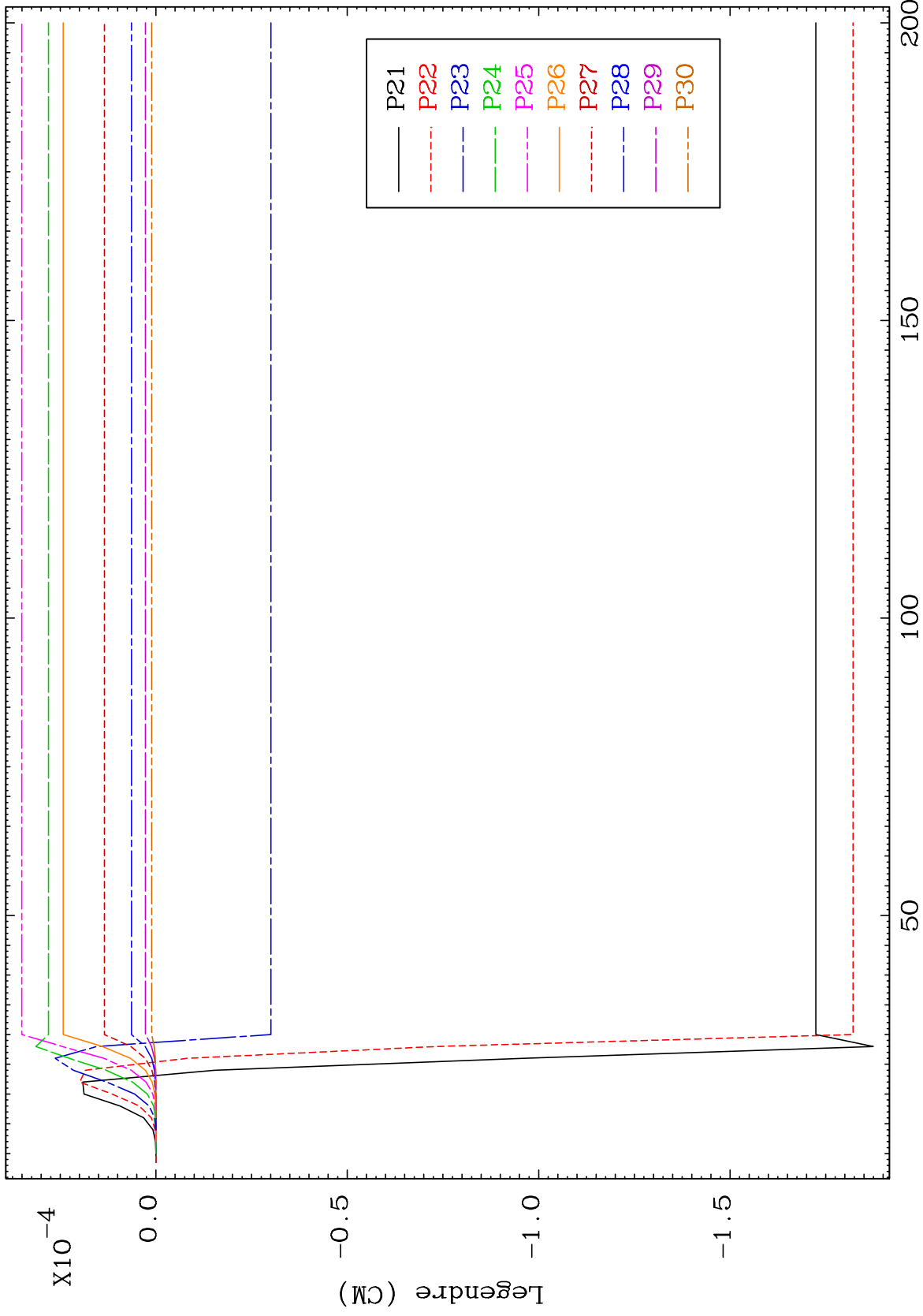
83-Bi-211



85

Incident Energy (MeV)

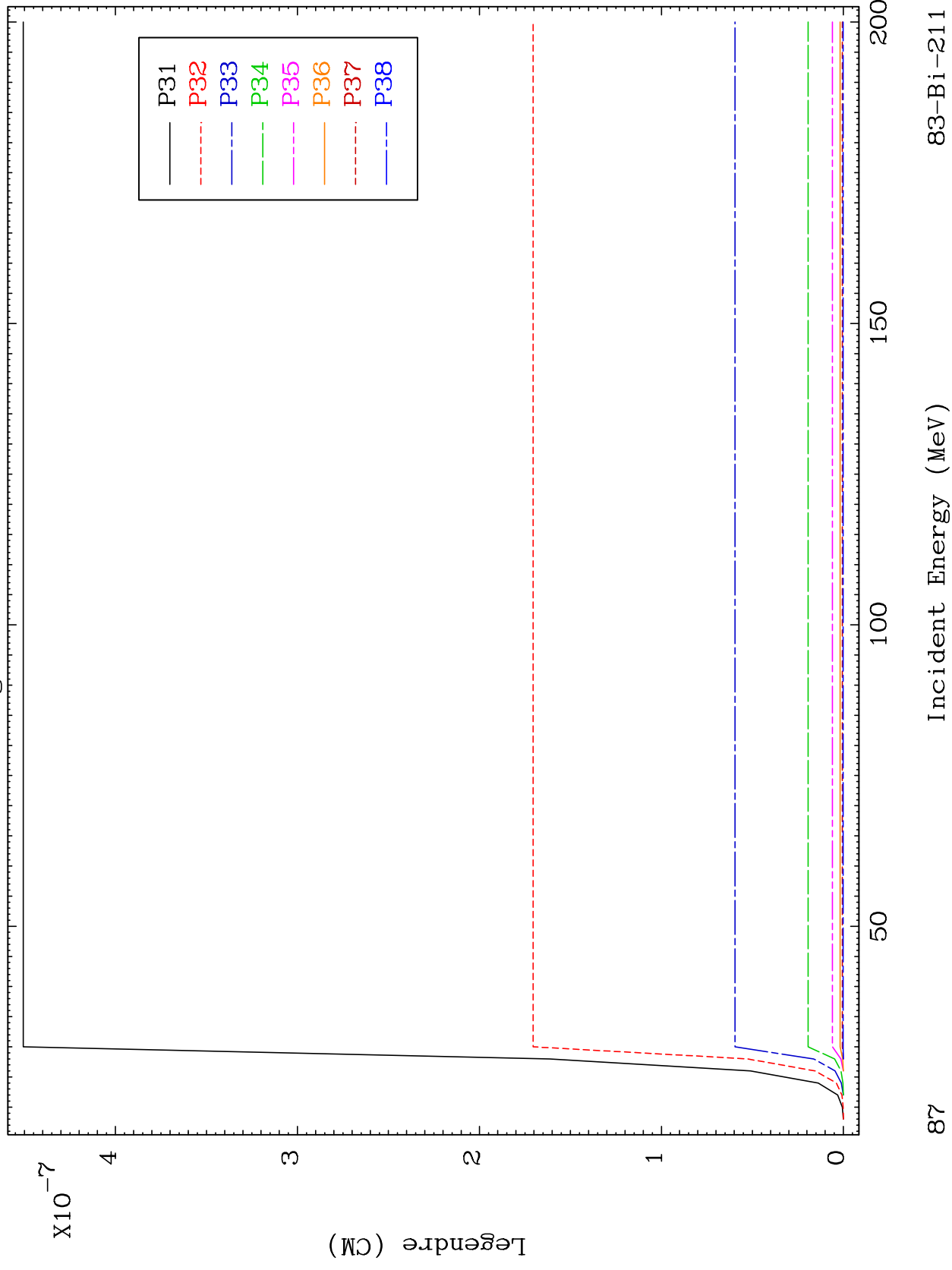
83-Bi-211



MAT 8331

1.196 MeV (n,n') Level
Legendre Coefficients

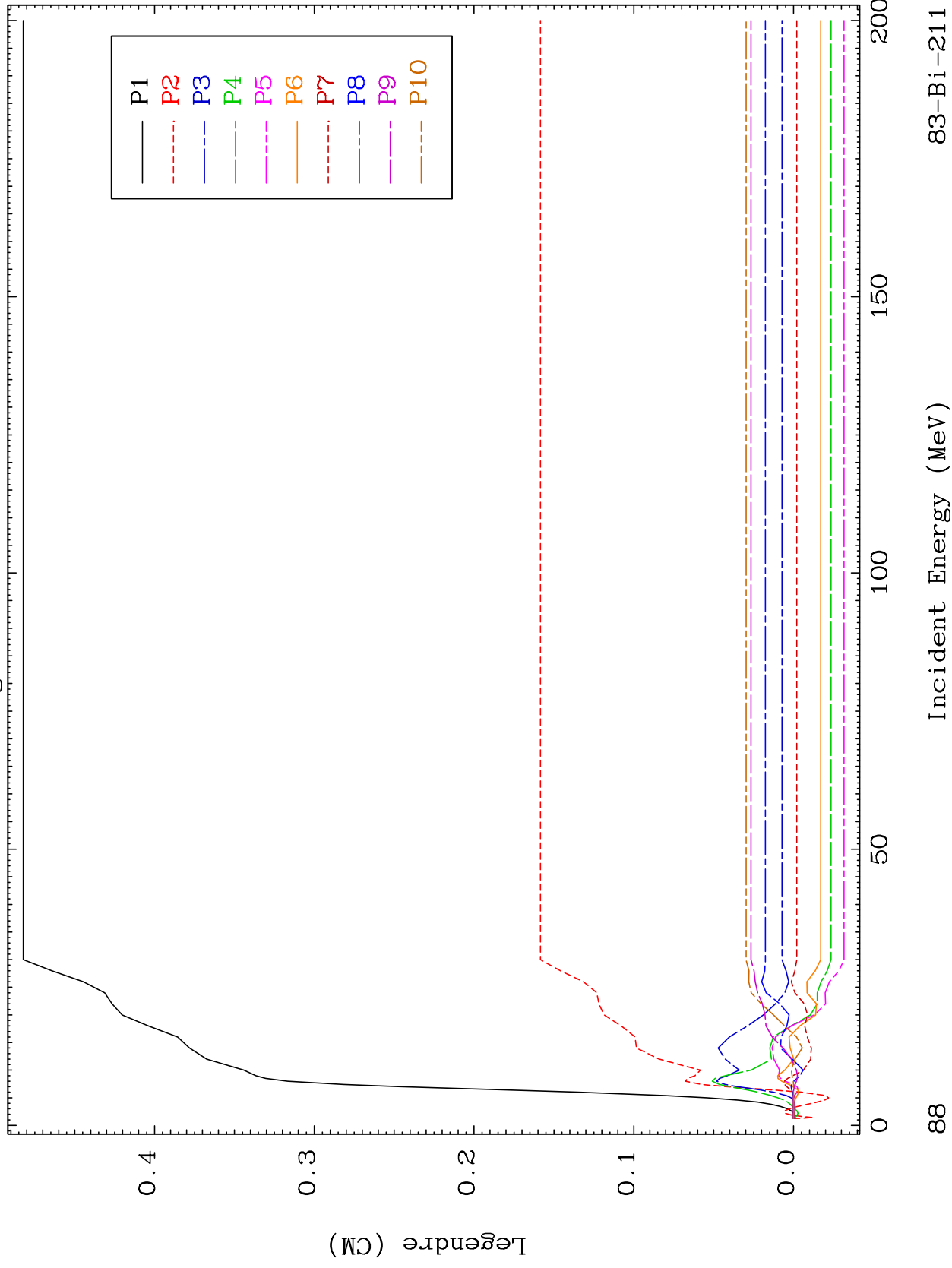
83-Bi-211



MAT 8331

1.227 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



83-Bi-211

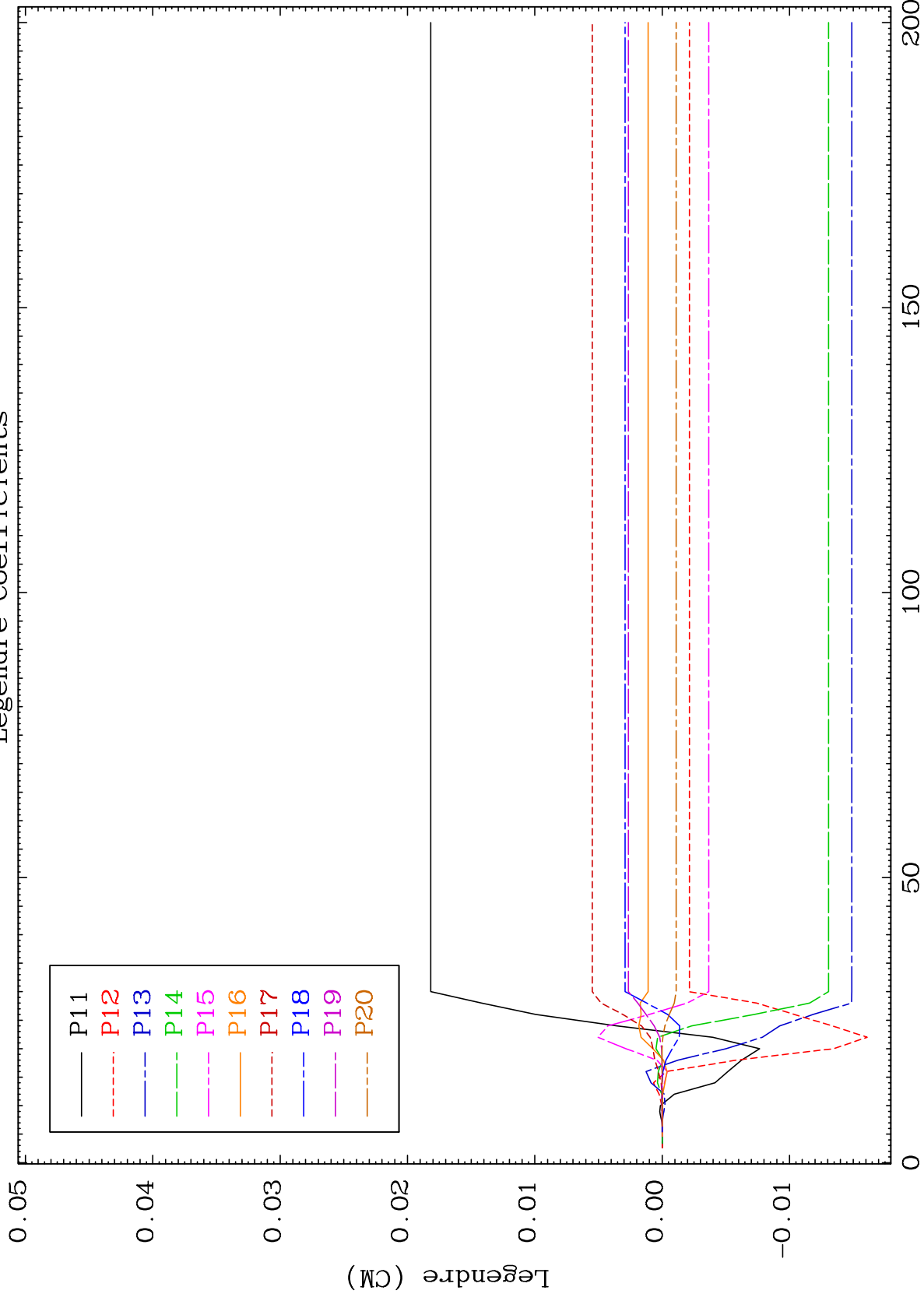
Incident Energy (MeV)

88

MAT 8331

1.227 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



89

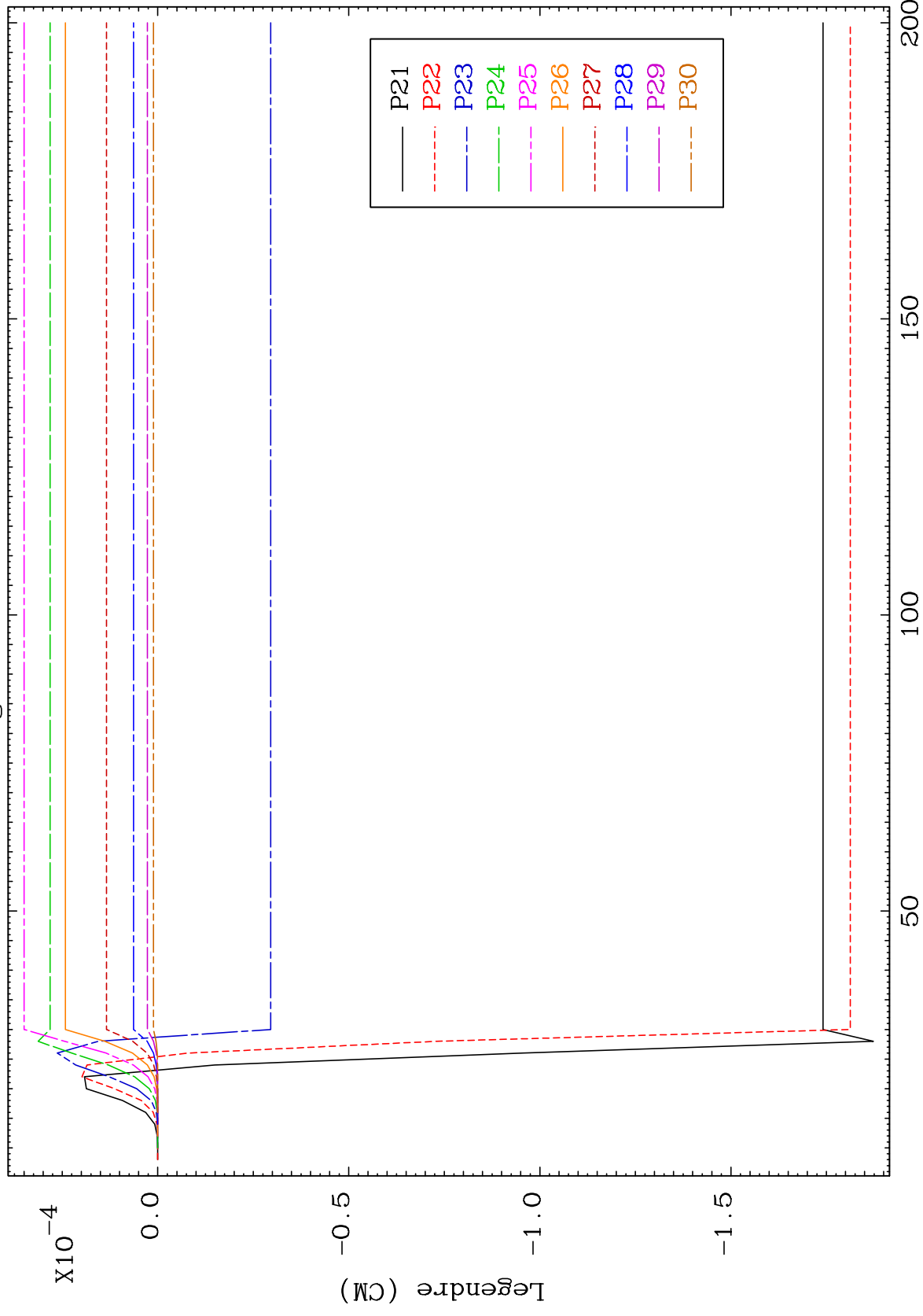
Incident Energy (MeV)

83-Bi-211

MAT 8331

1.227 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



90

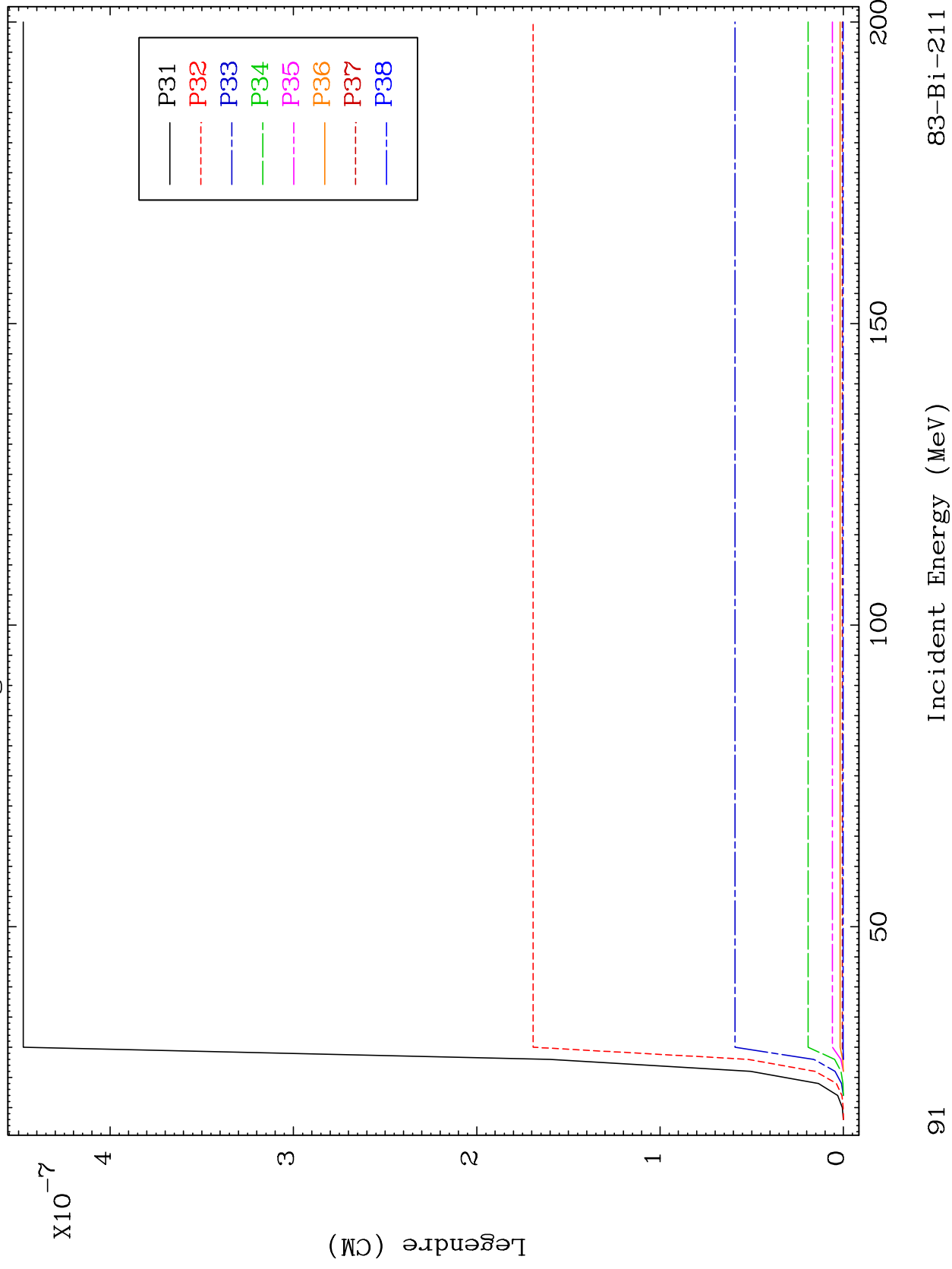
Incident Energy (MeV)

83-Bi-211

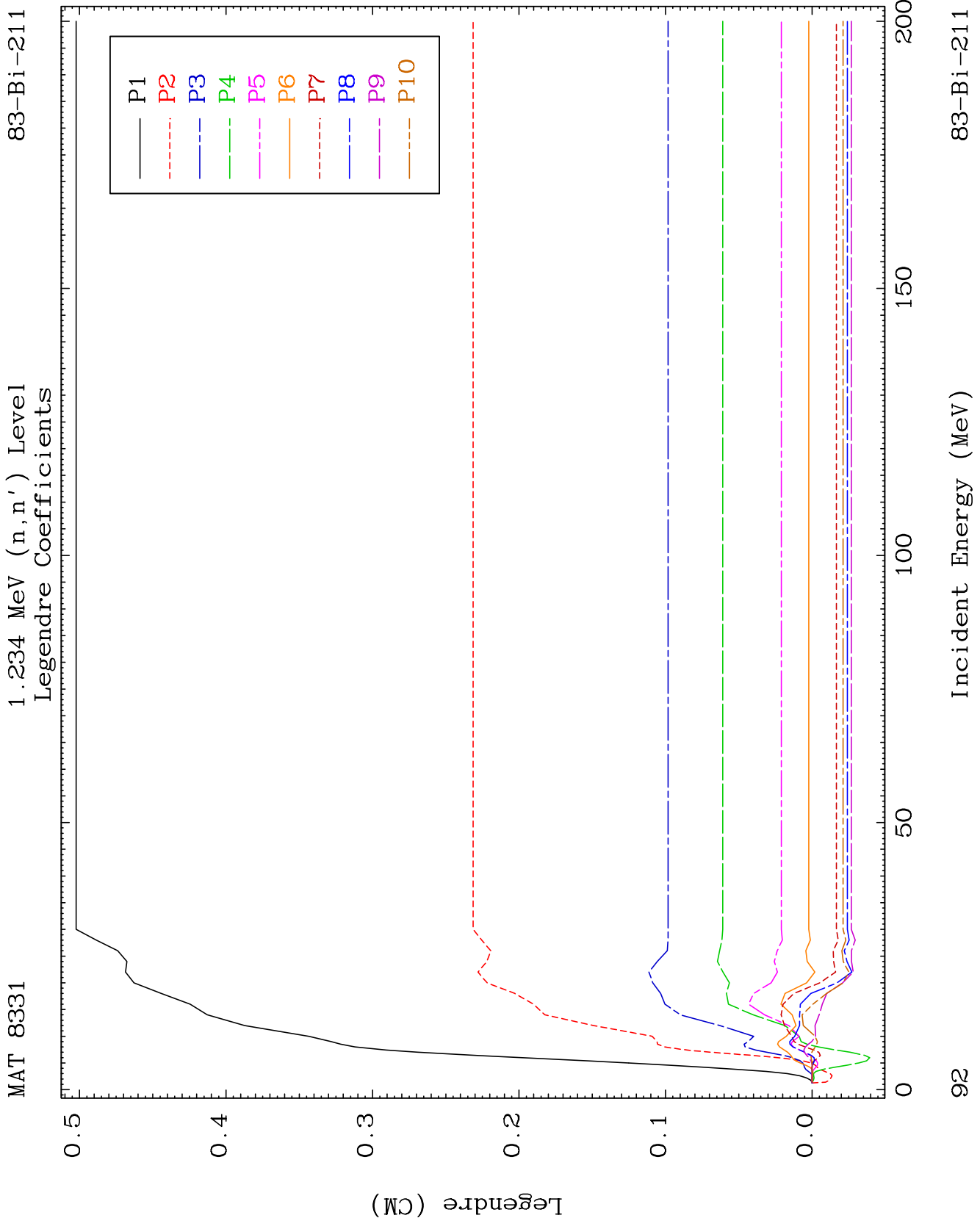
MAT 8331

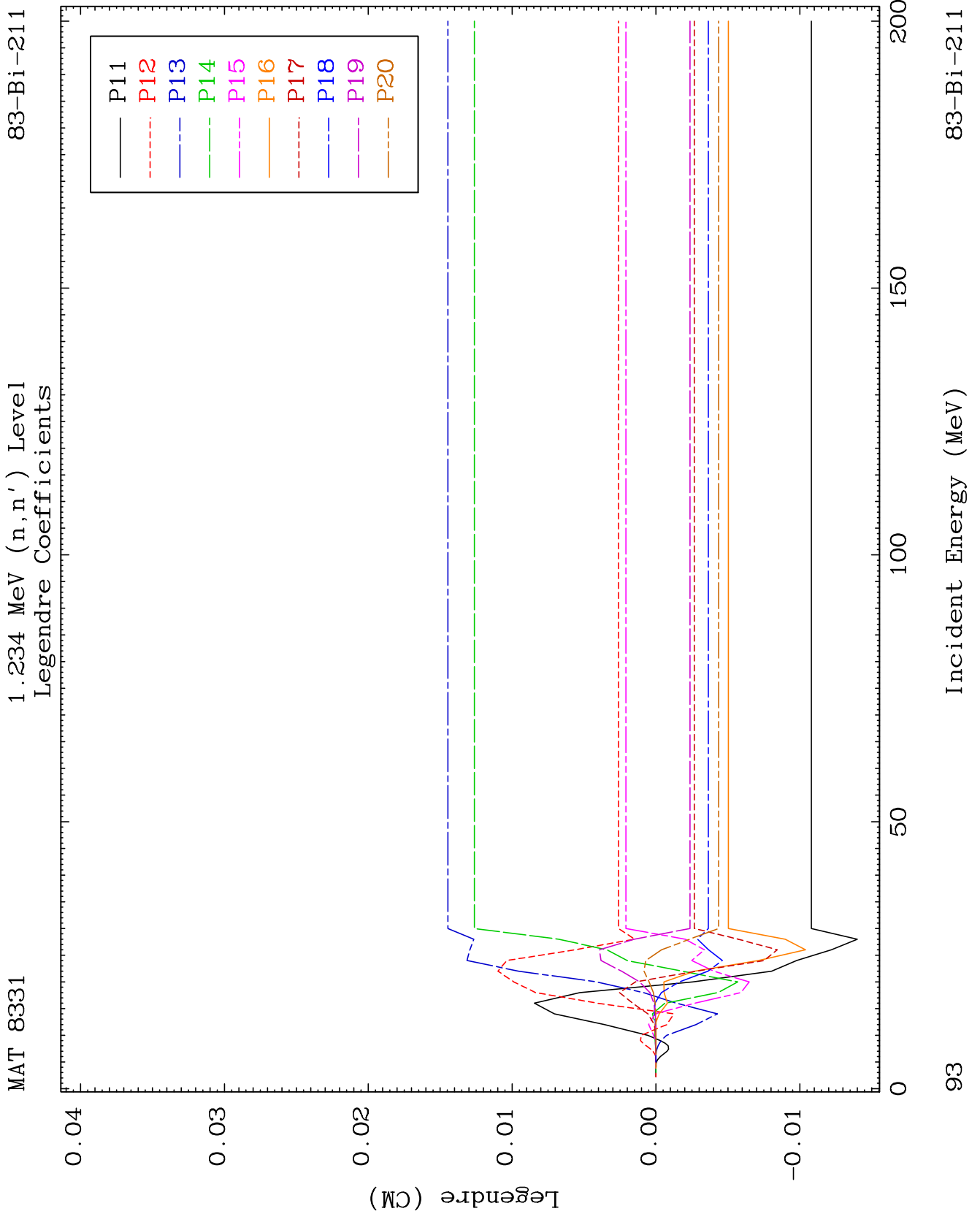
1.227 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



91

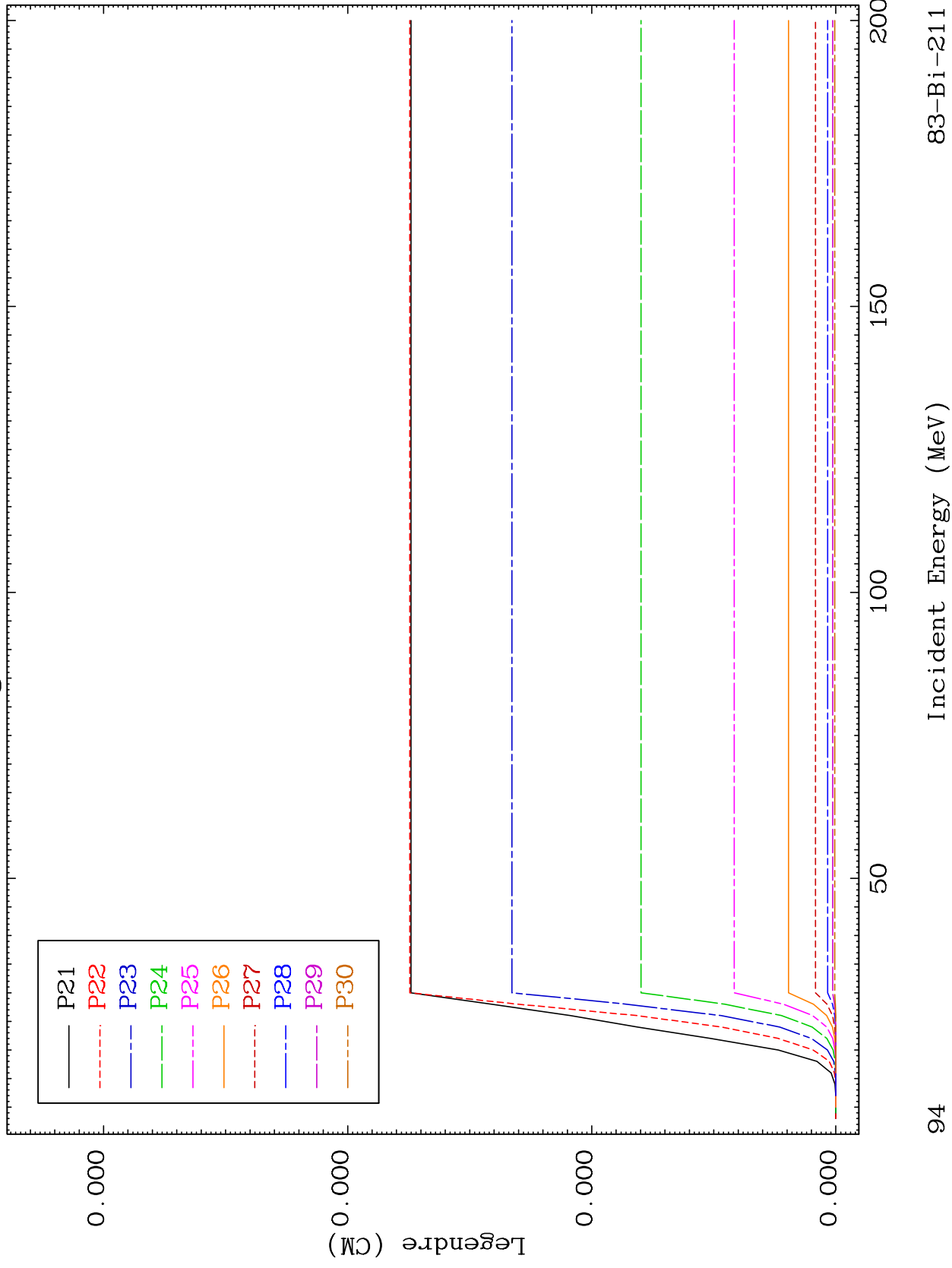


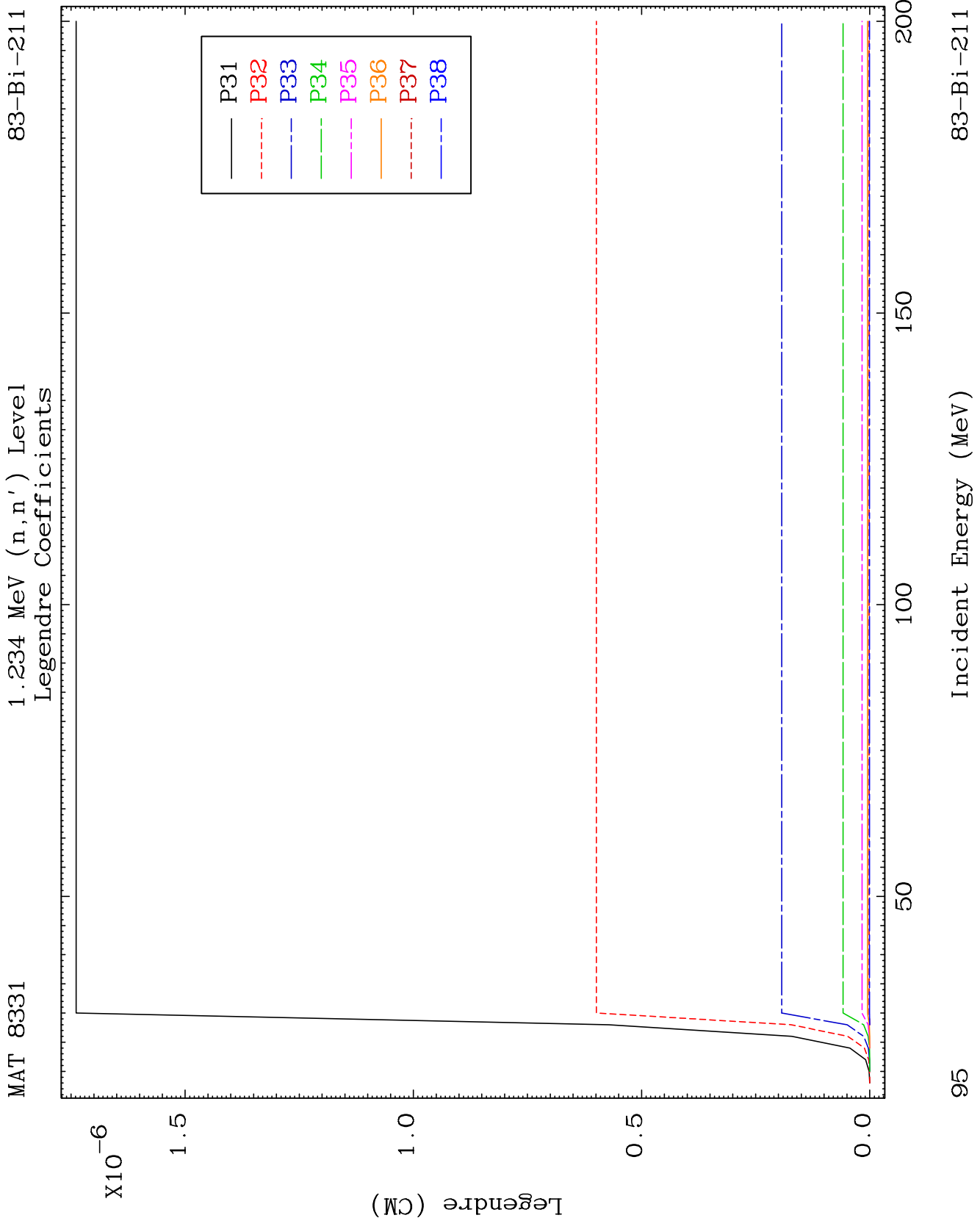


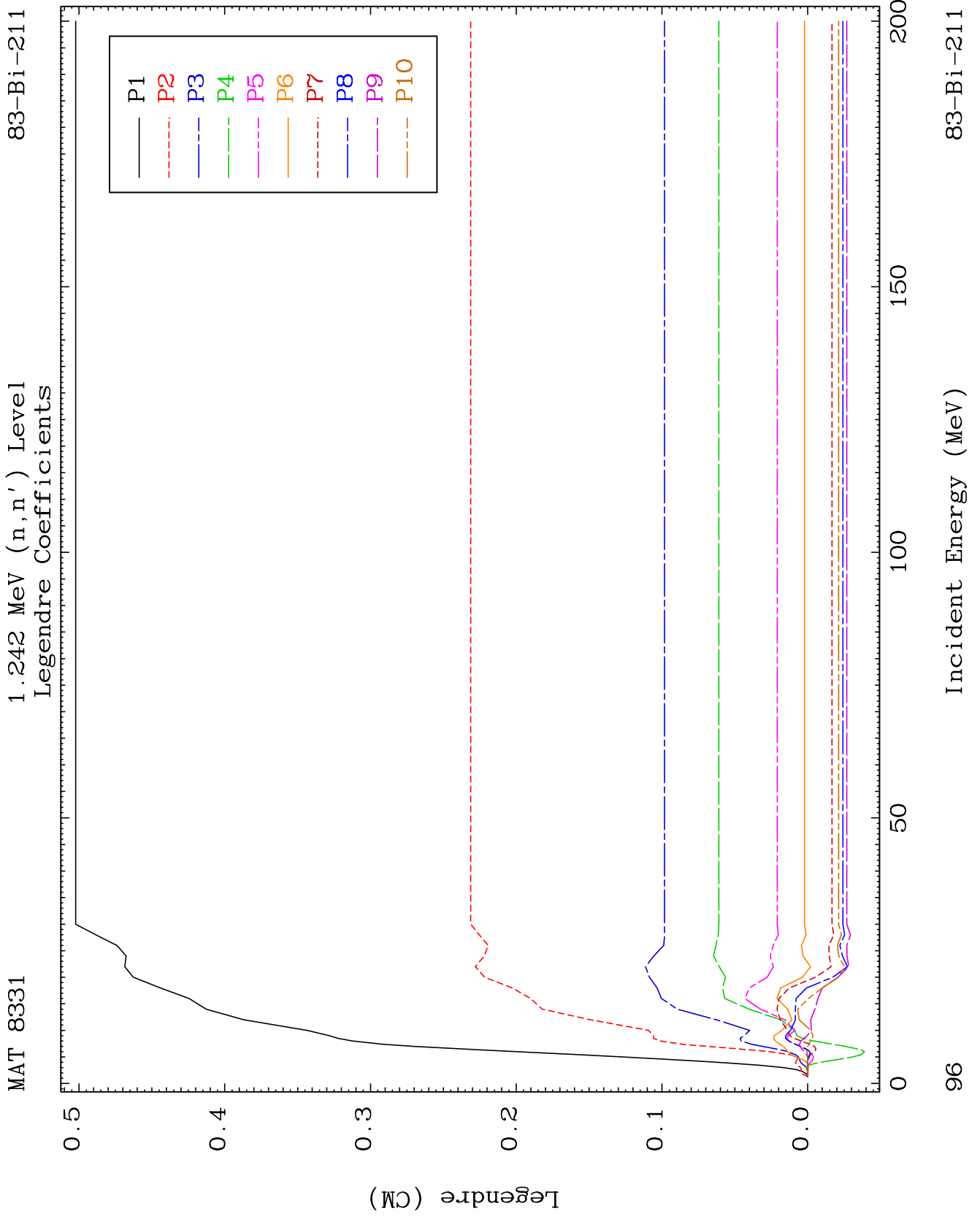
MAT 8331

1.234 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



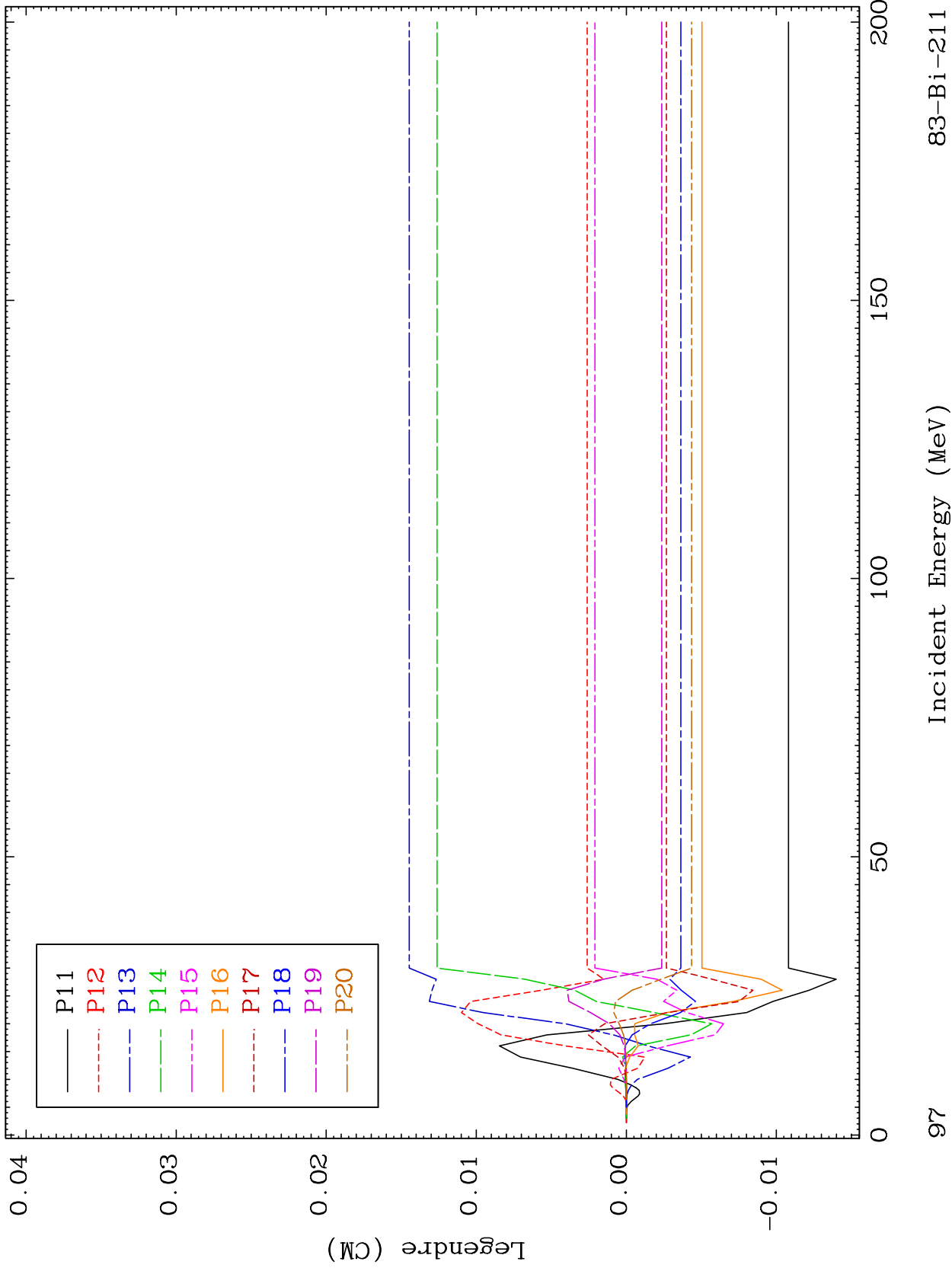




MAT 8331

1.242 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



97

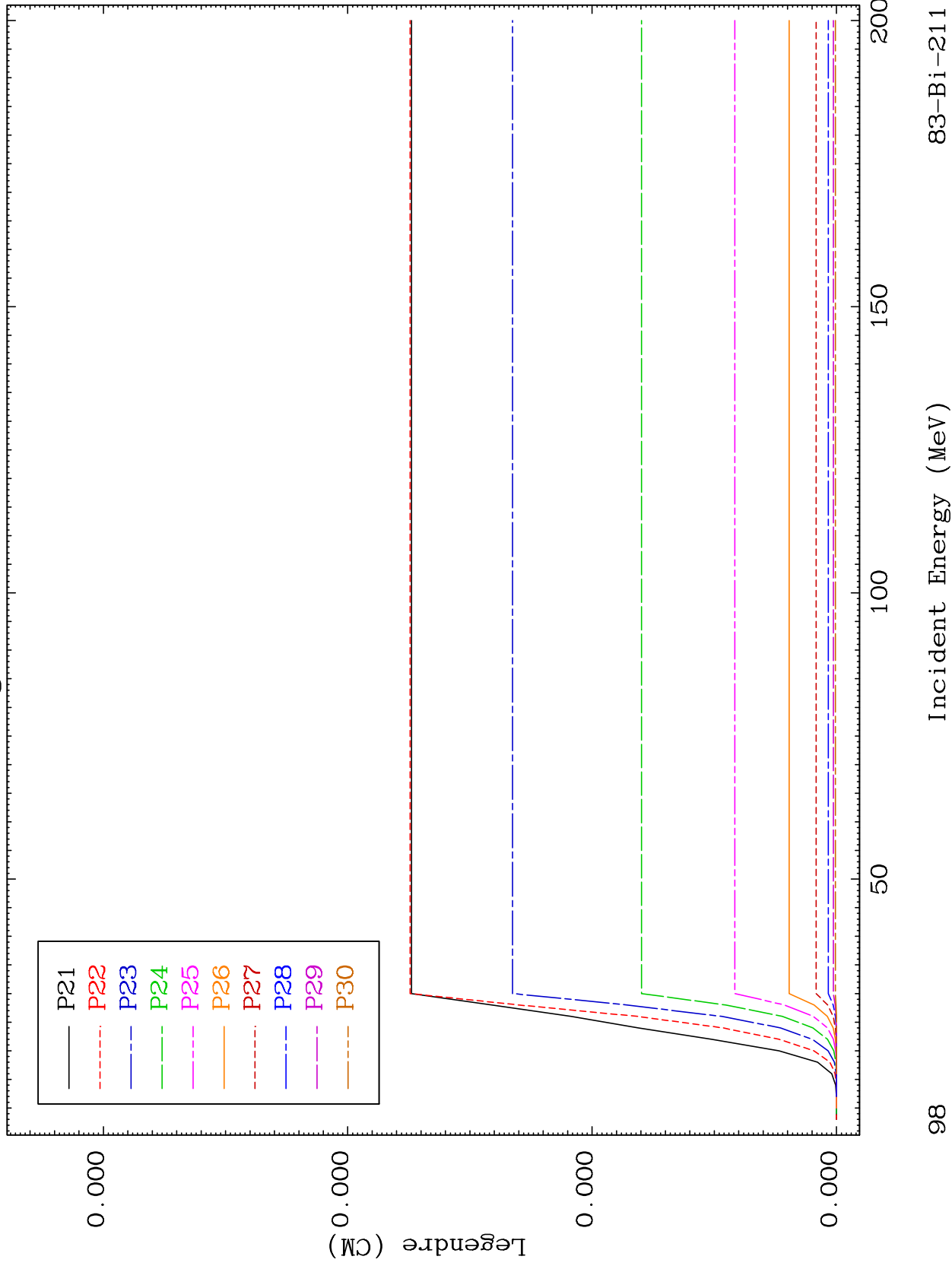
Incident Energy (MeV)

83-Bi-211

MAT 8331

1.242 MeV (n,n') Level
Legendre Coefficients

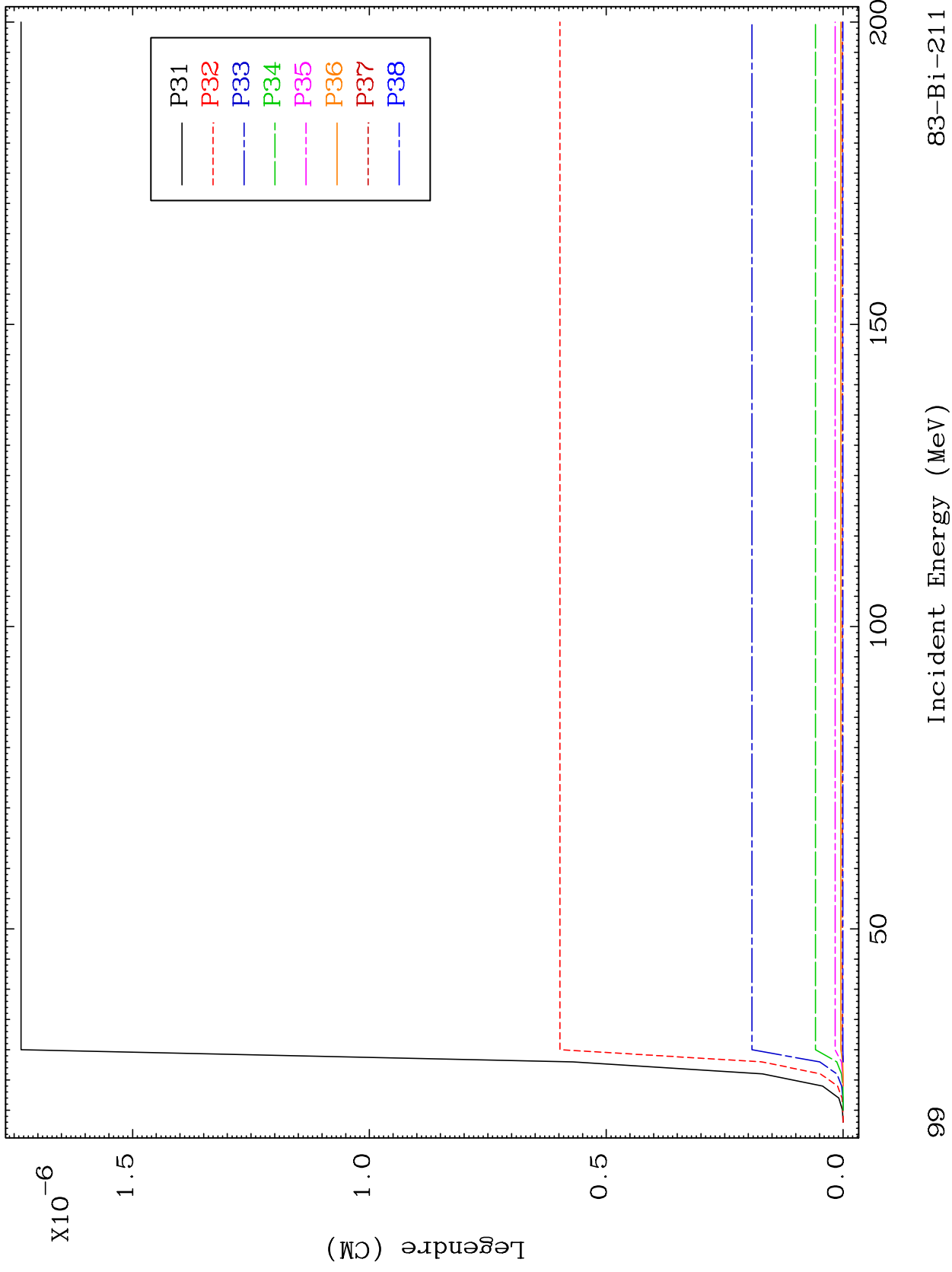
83-Bi-211



MAT 8331

1.242 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



99

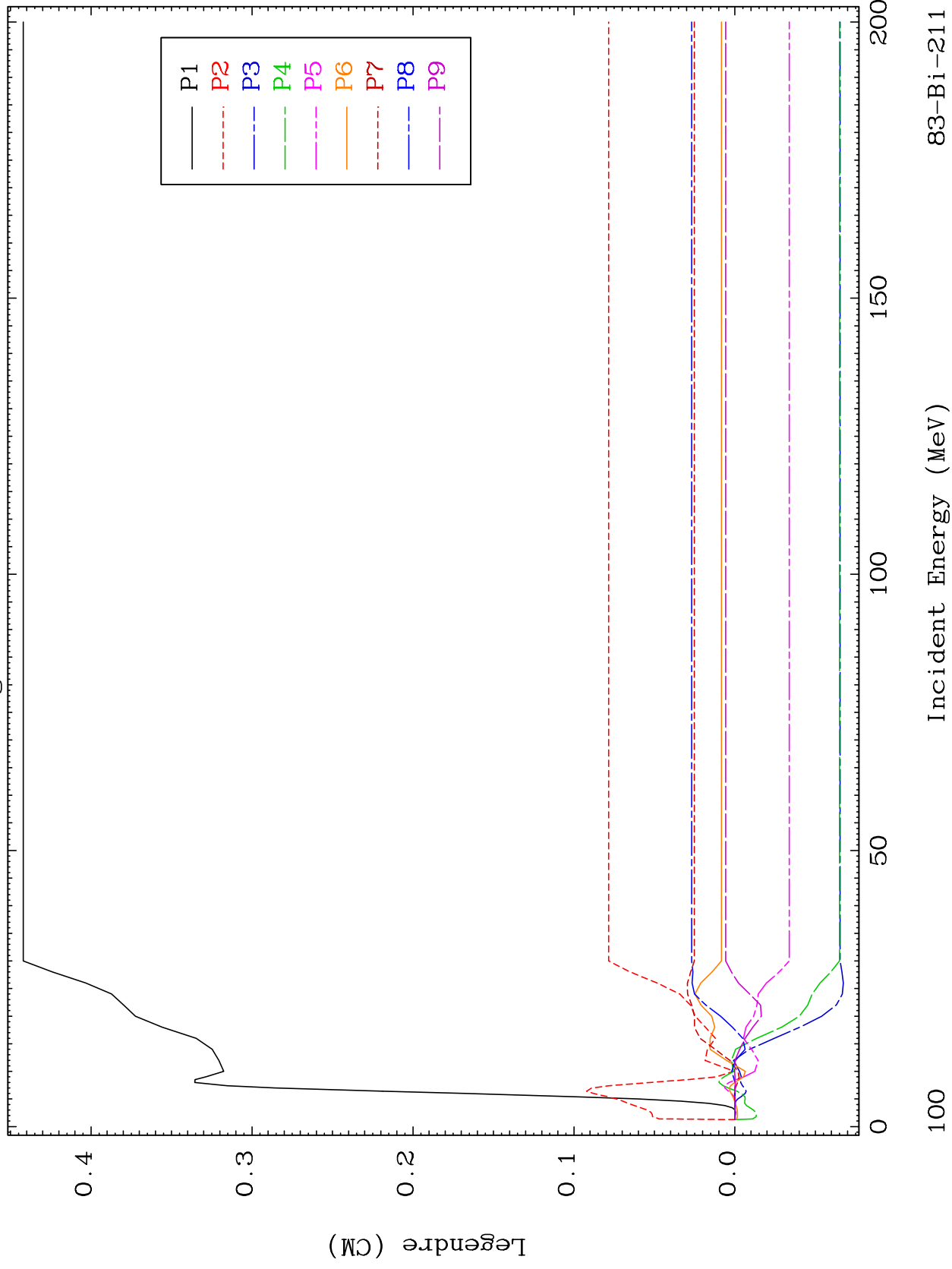
Incident Energy (MeV)

83-Bi-211

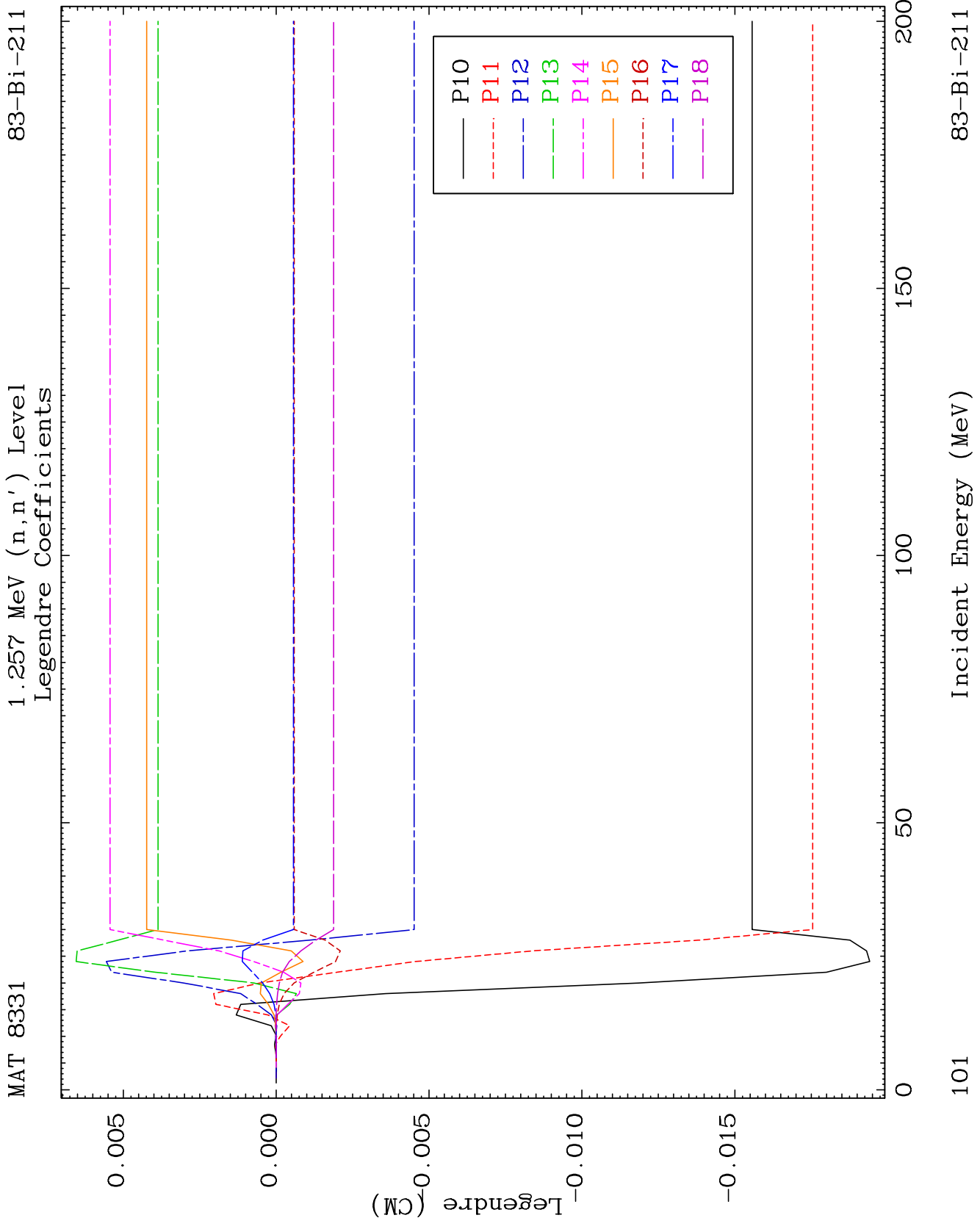
MAT 8331

1.257 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



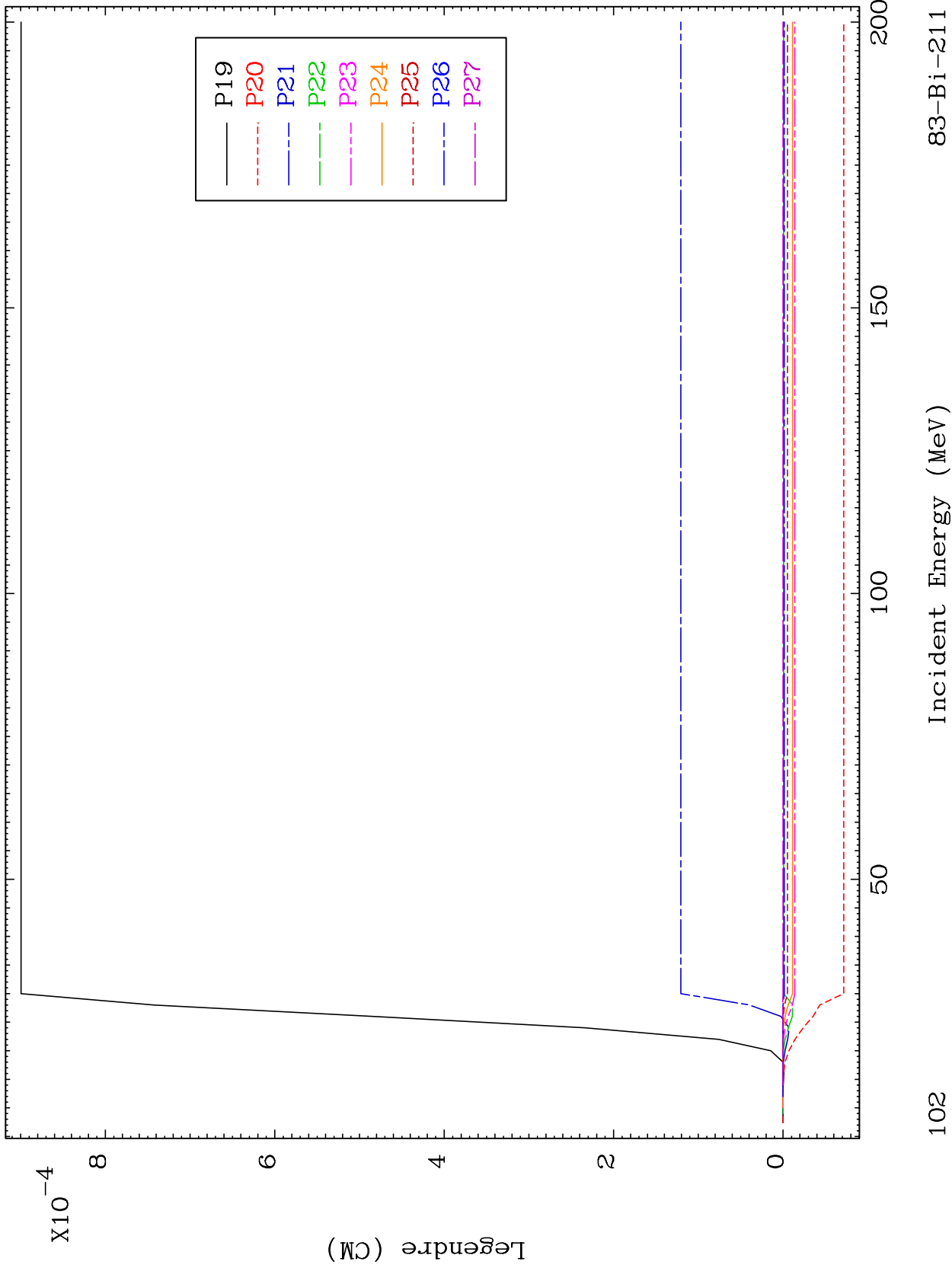
83-Bi-211



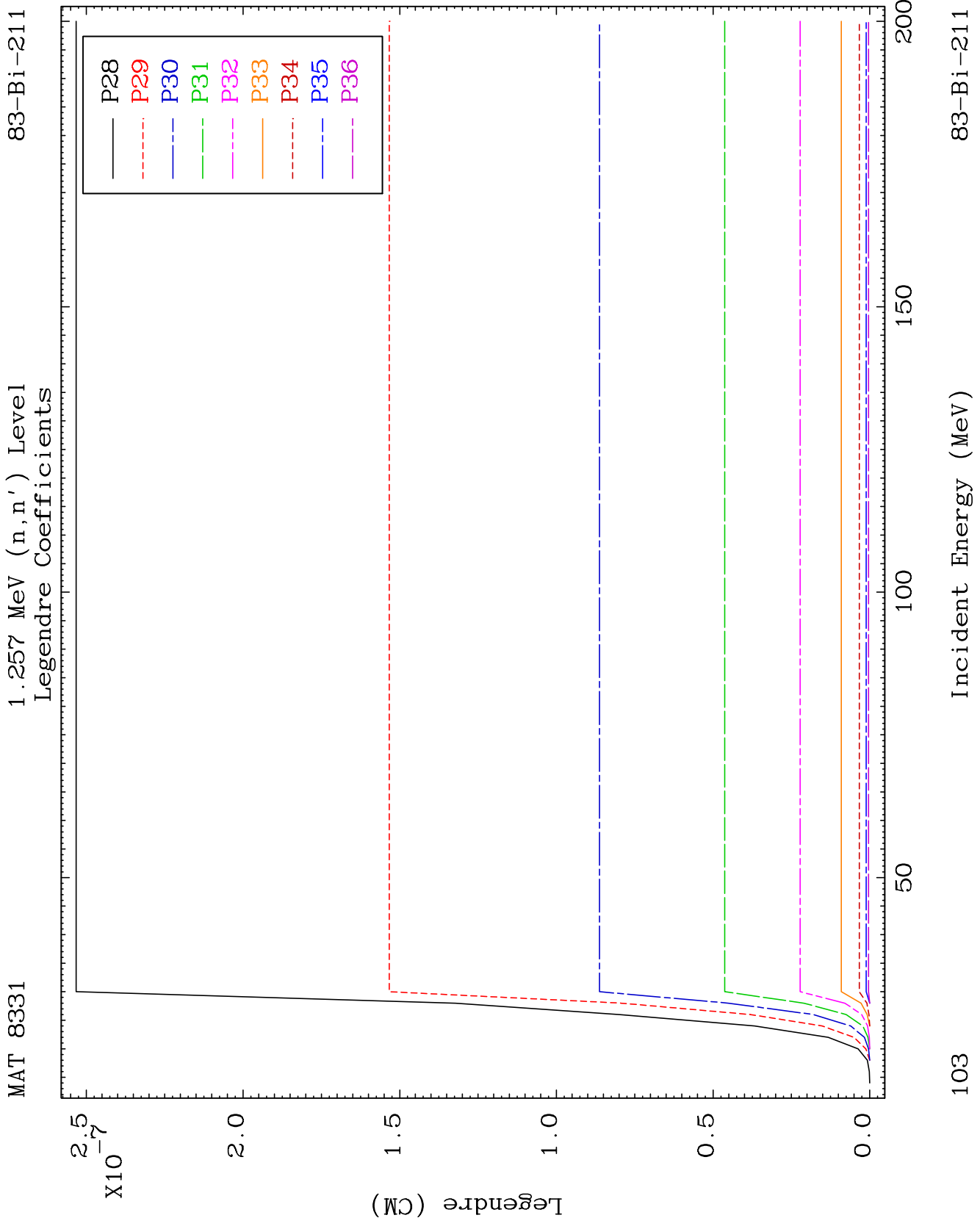
MAT 8331

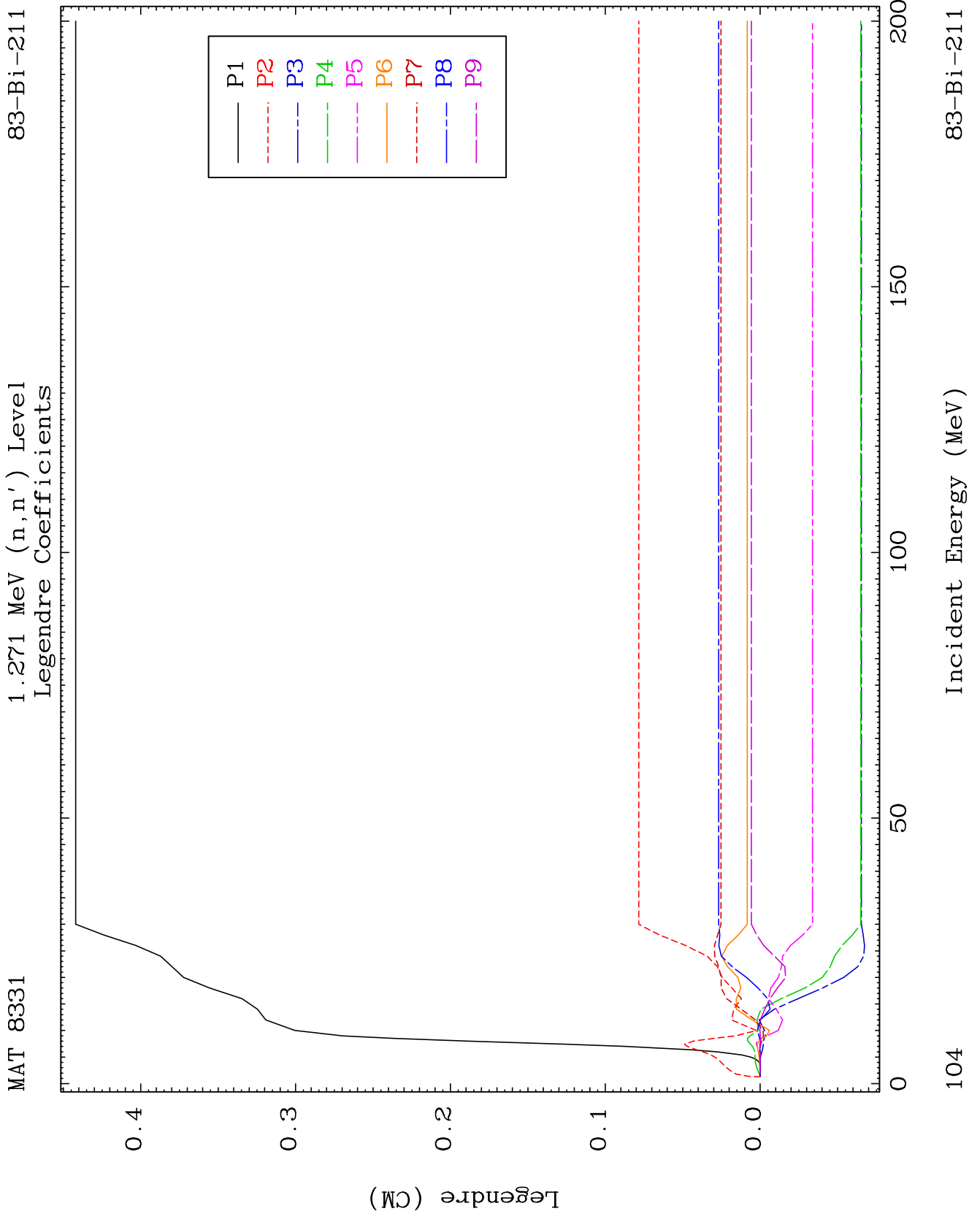
1.257 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



102

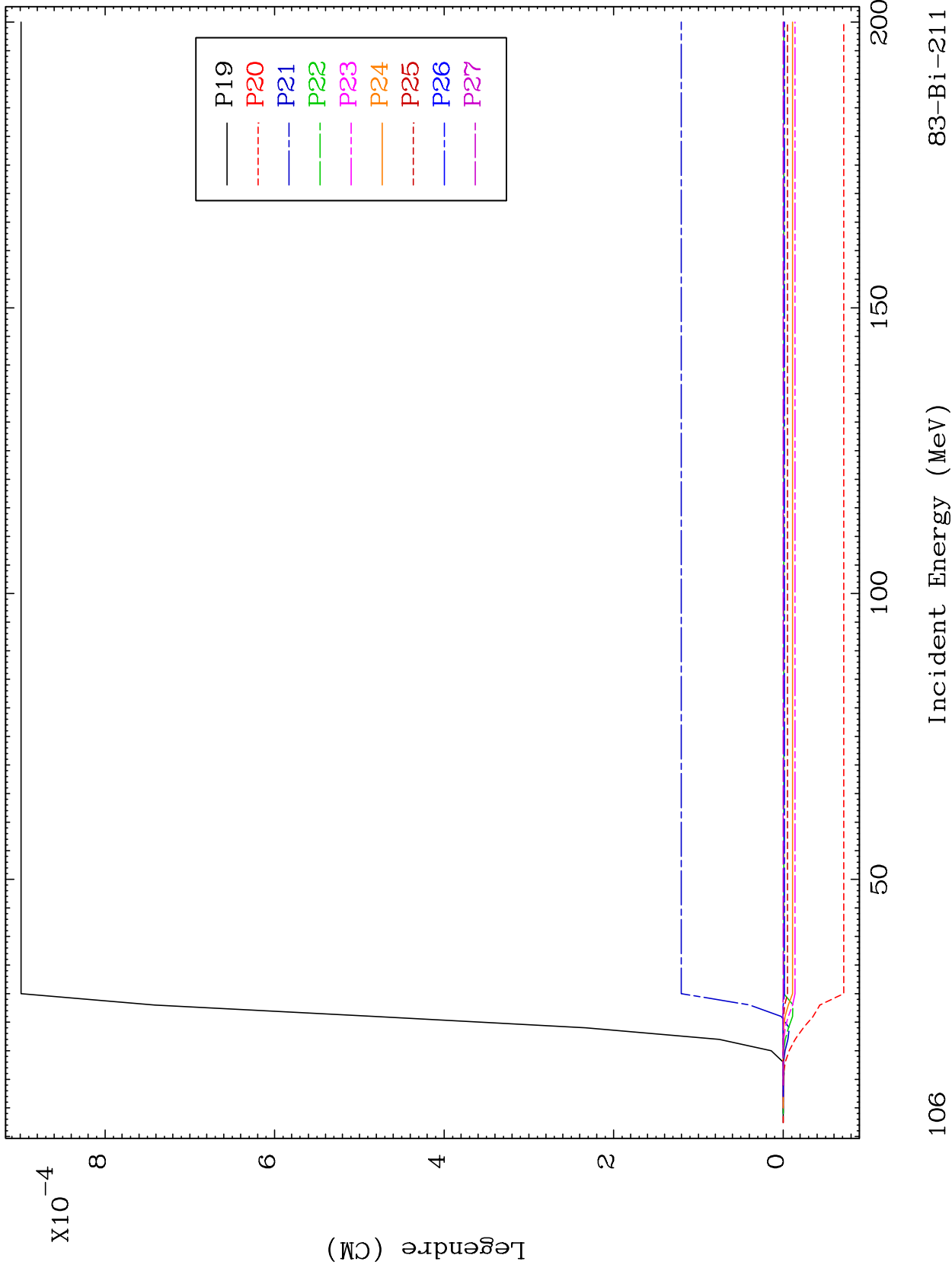




MAT 8331

1.271 MeV (n,n') Level
Legendre Coefficients

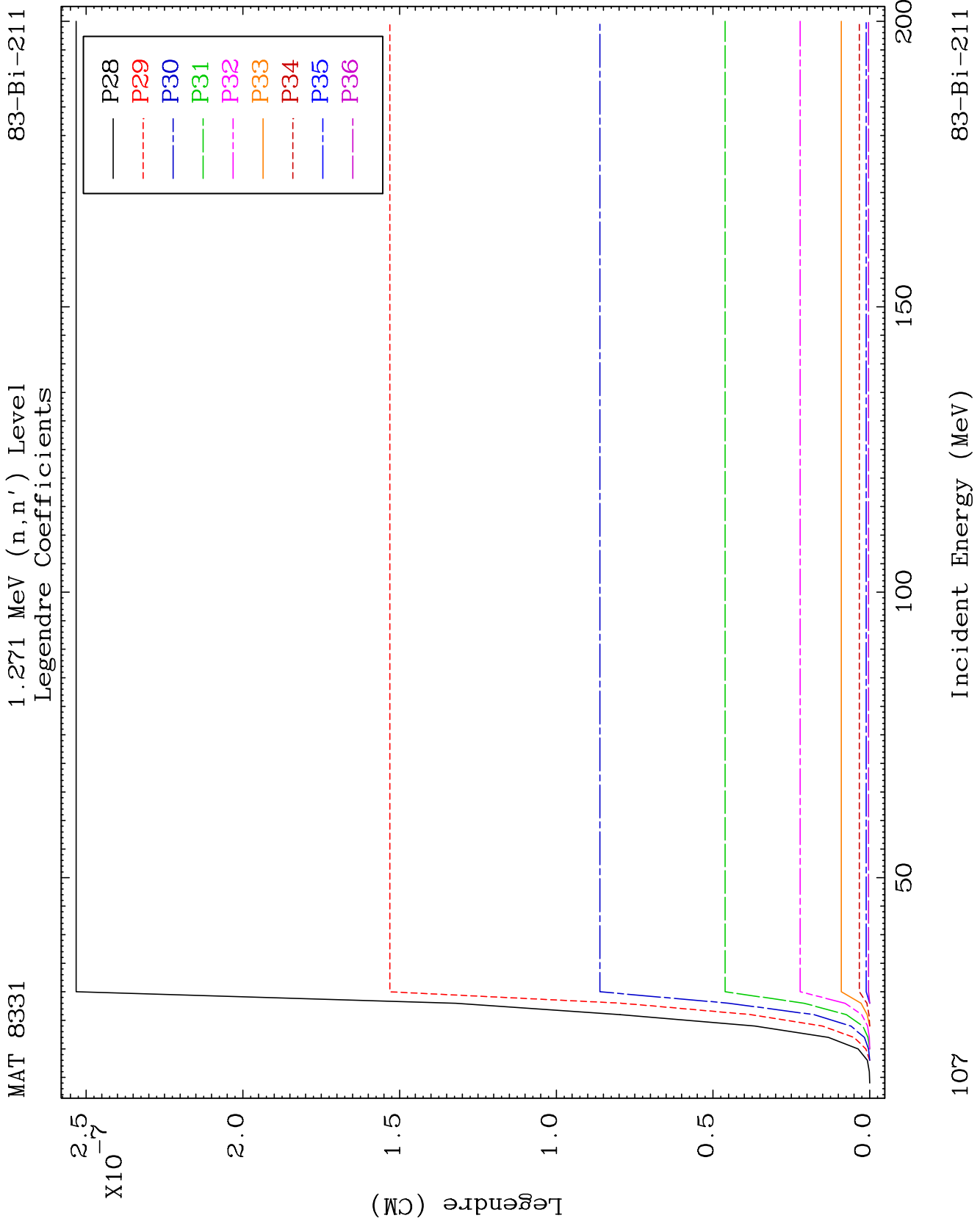
83-Bi-211

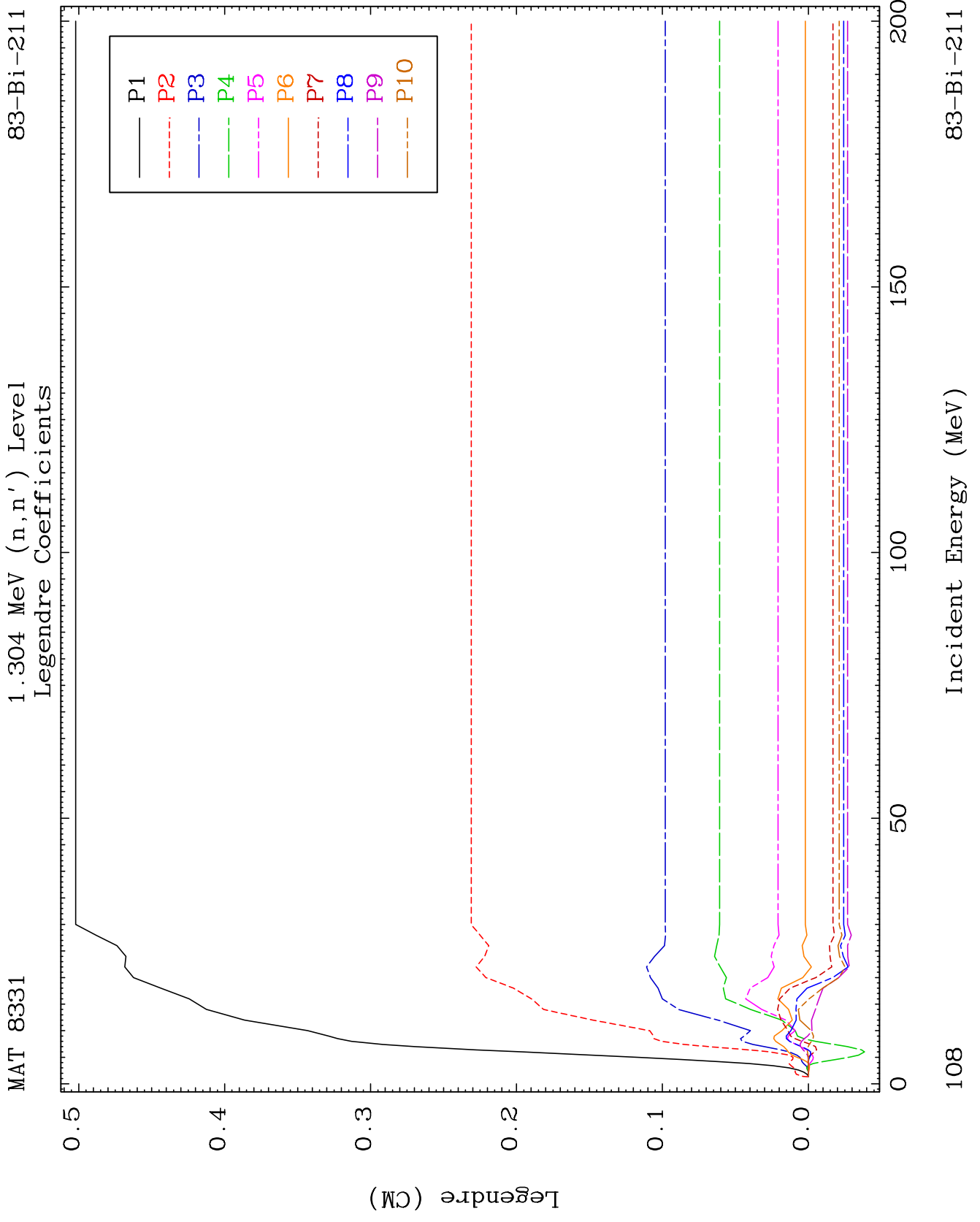


106

Incident Energy (MeV)

83-Bi-211

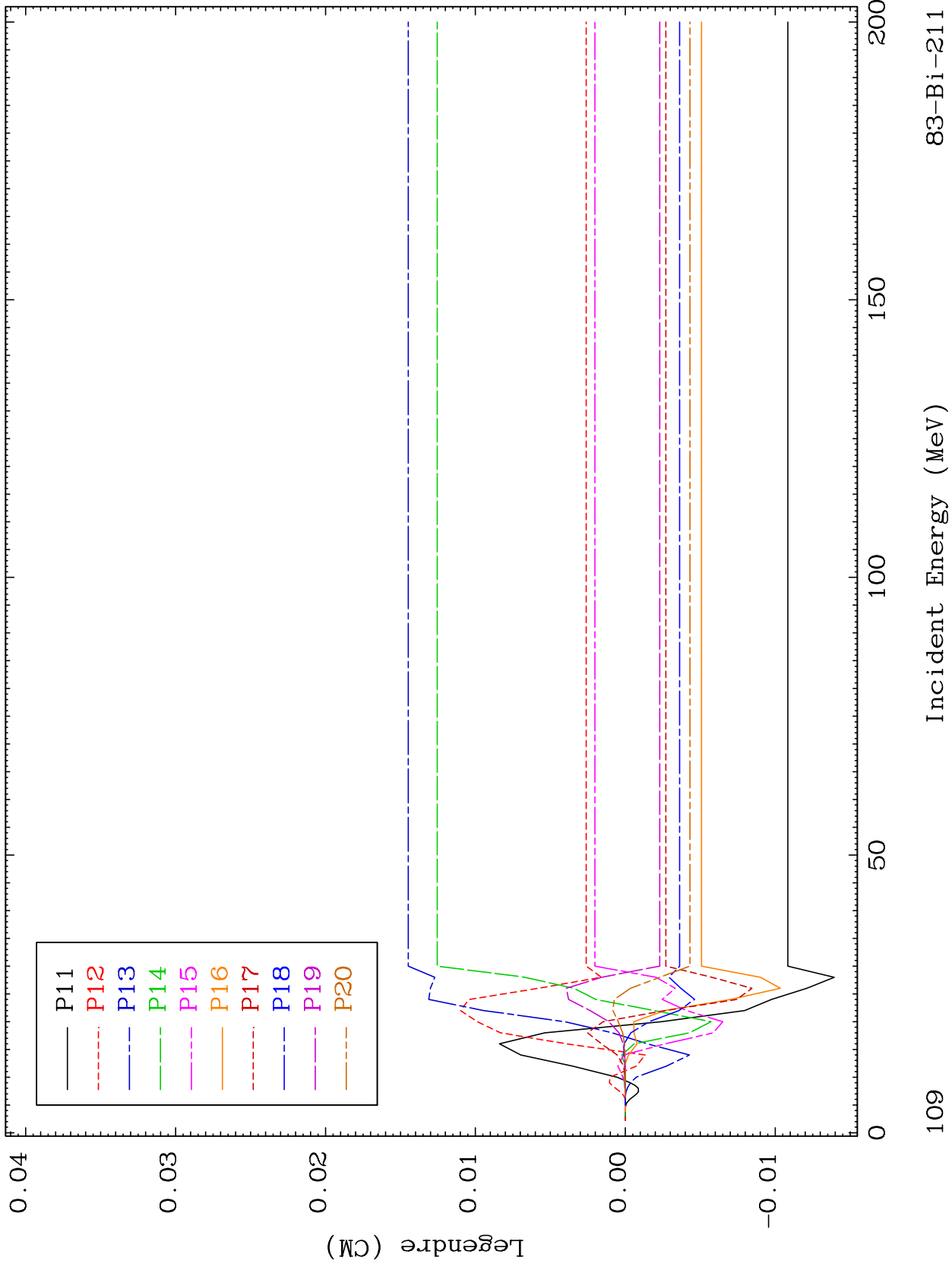




MAT 8331

1.304 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



83-Bi-211

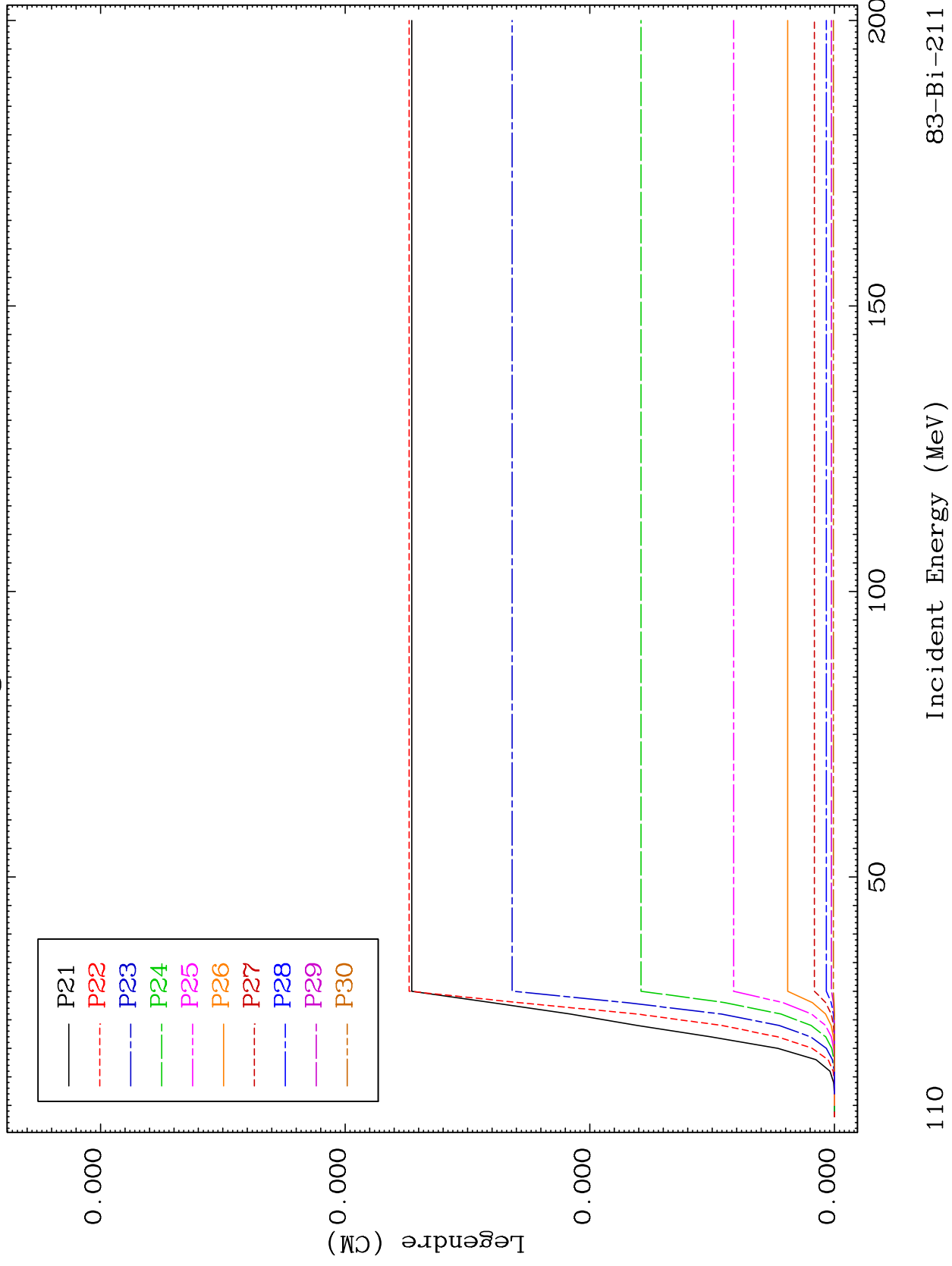
Incident Energy (MeV)

109

MAT 8331

1.304 MeV (n,n') Level
Legendre Coefficients

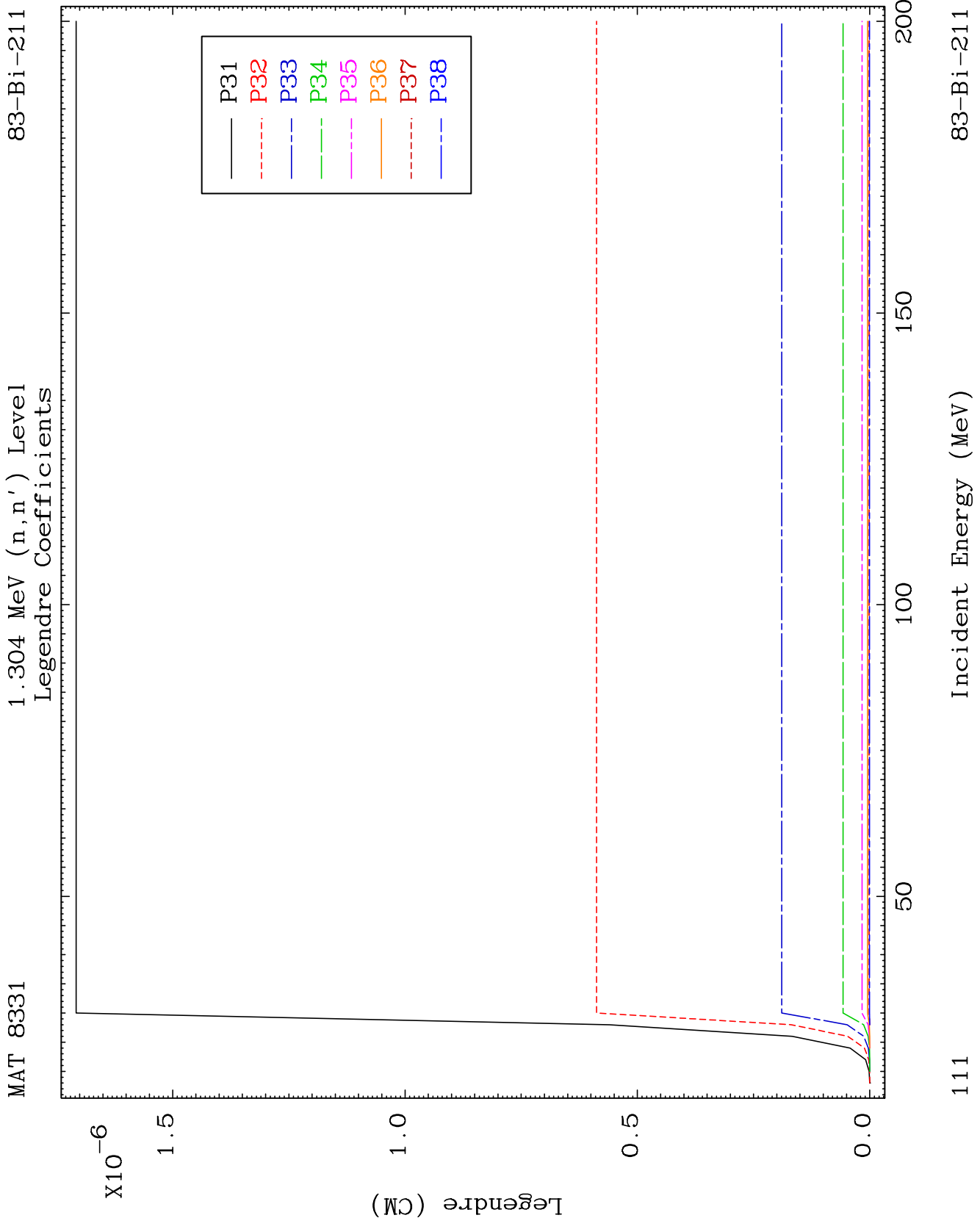
83-Bi-211

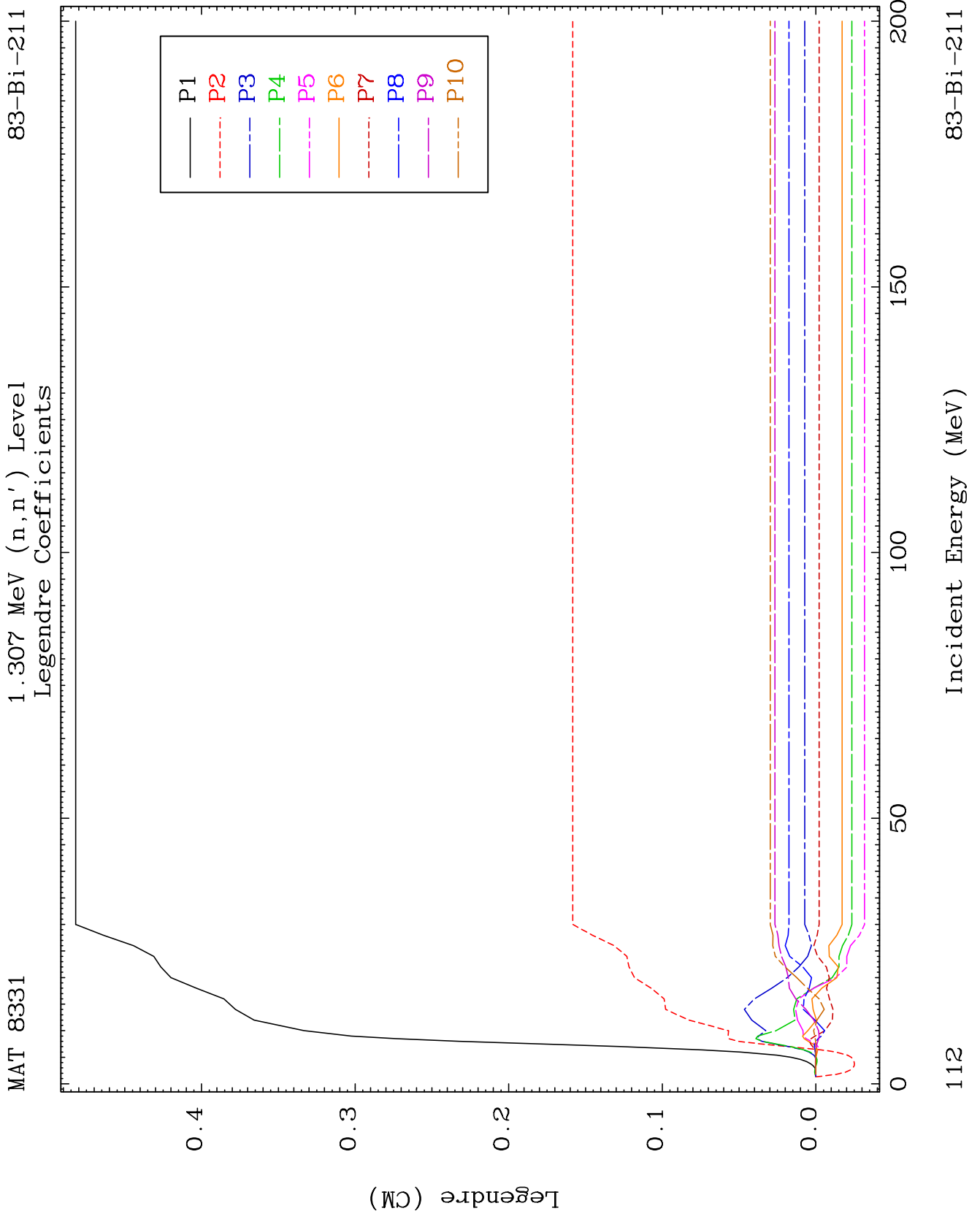


110

Incident Energy (MeV)

83-Bi-211

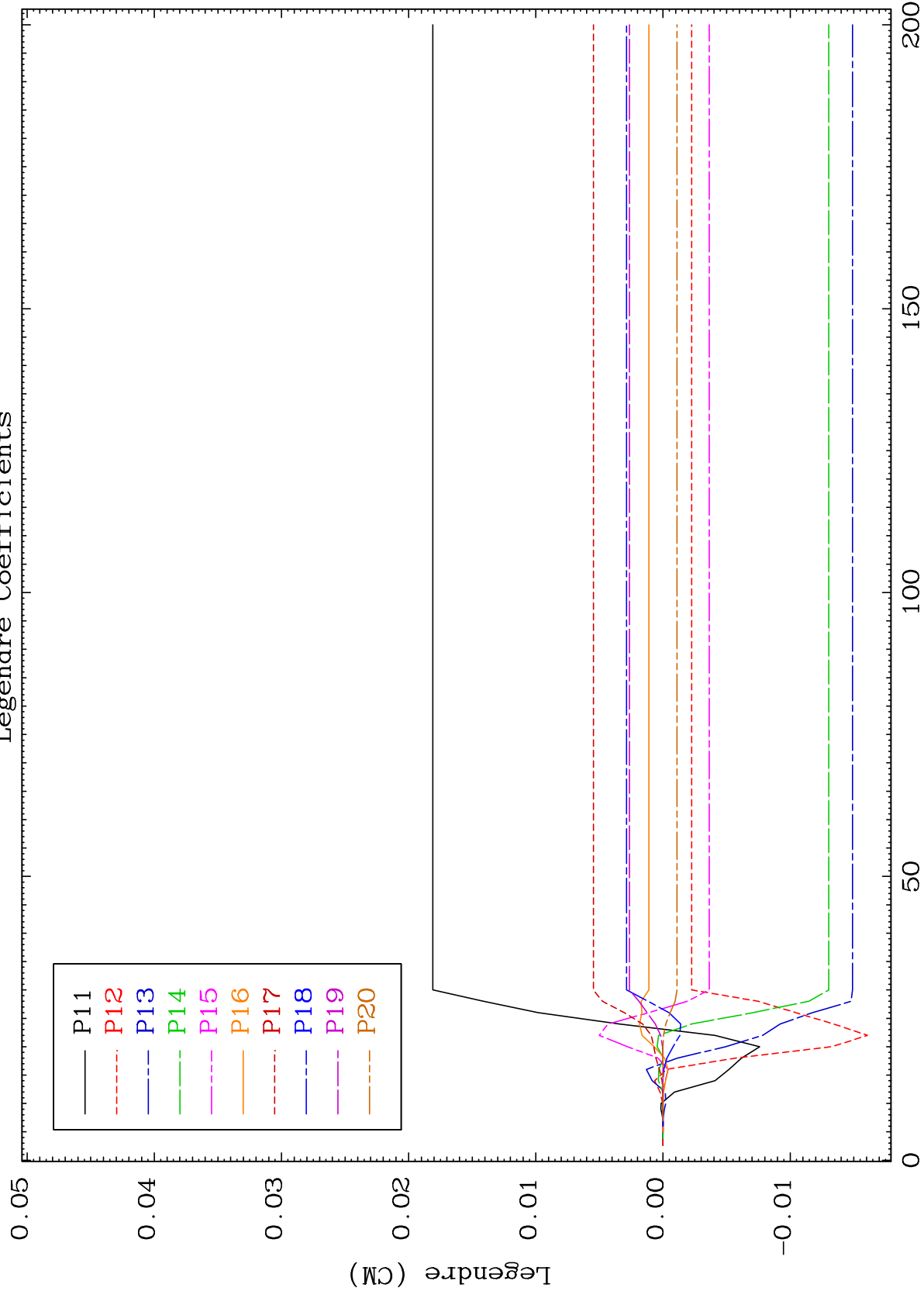




MAT 8331

1.307 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



113

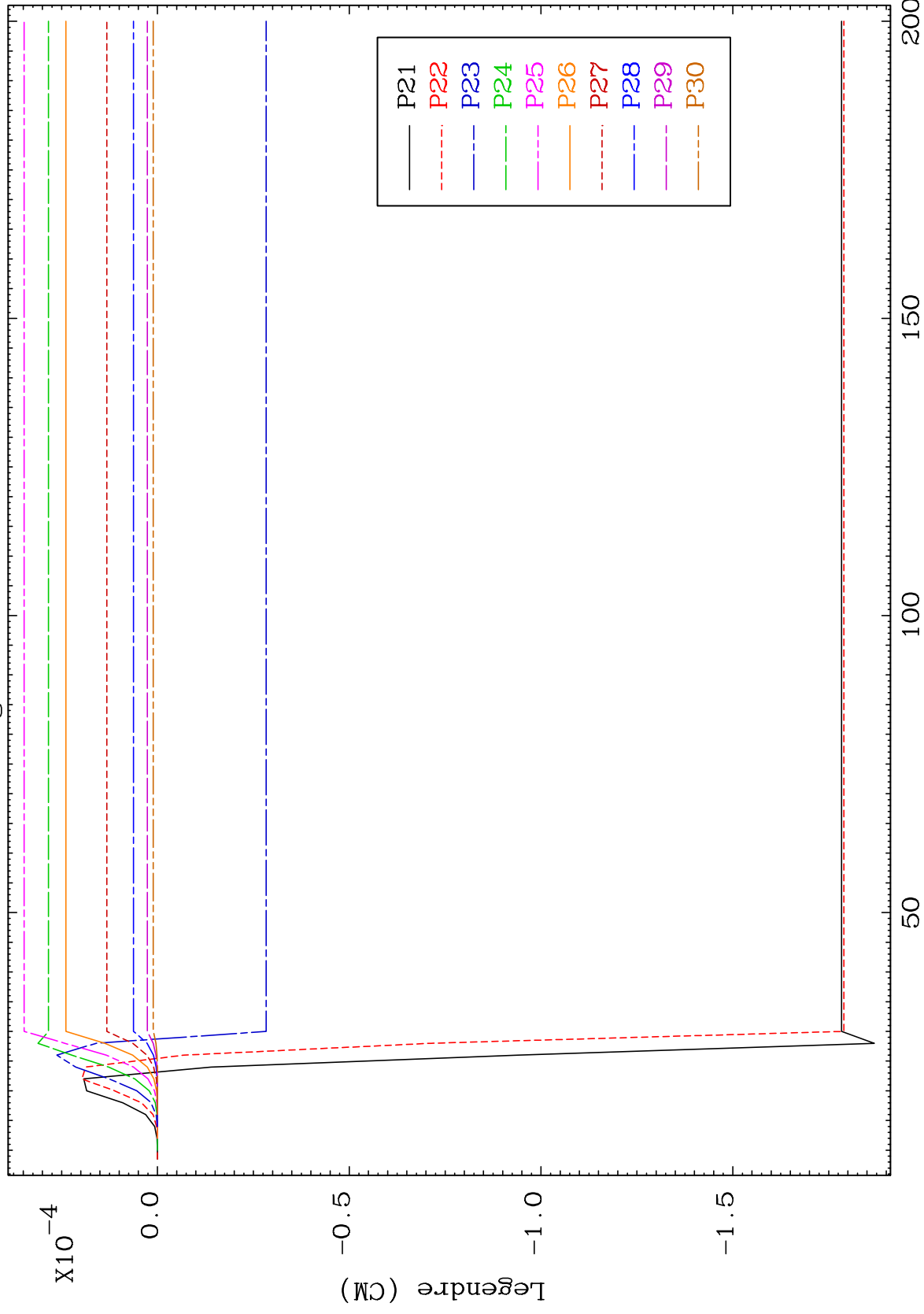
Incident Energy (MeV)

83-Bi-211

MAT 8331

1.307 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



114

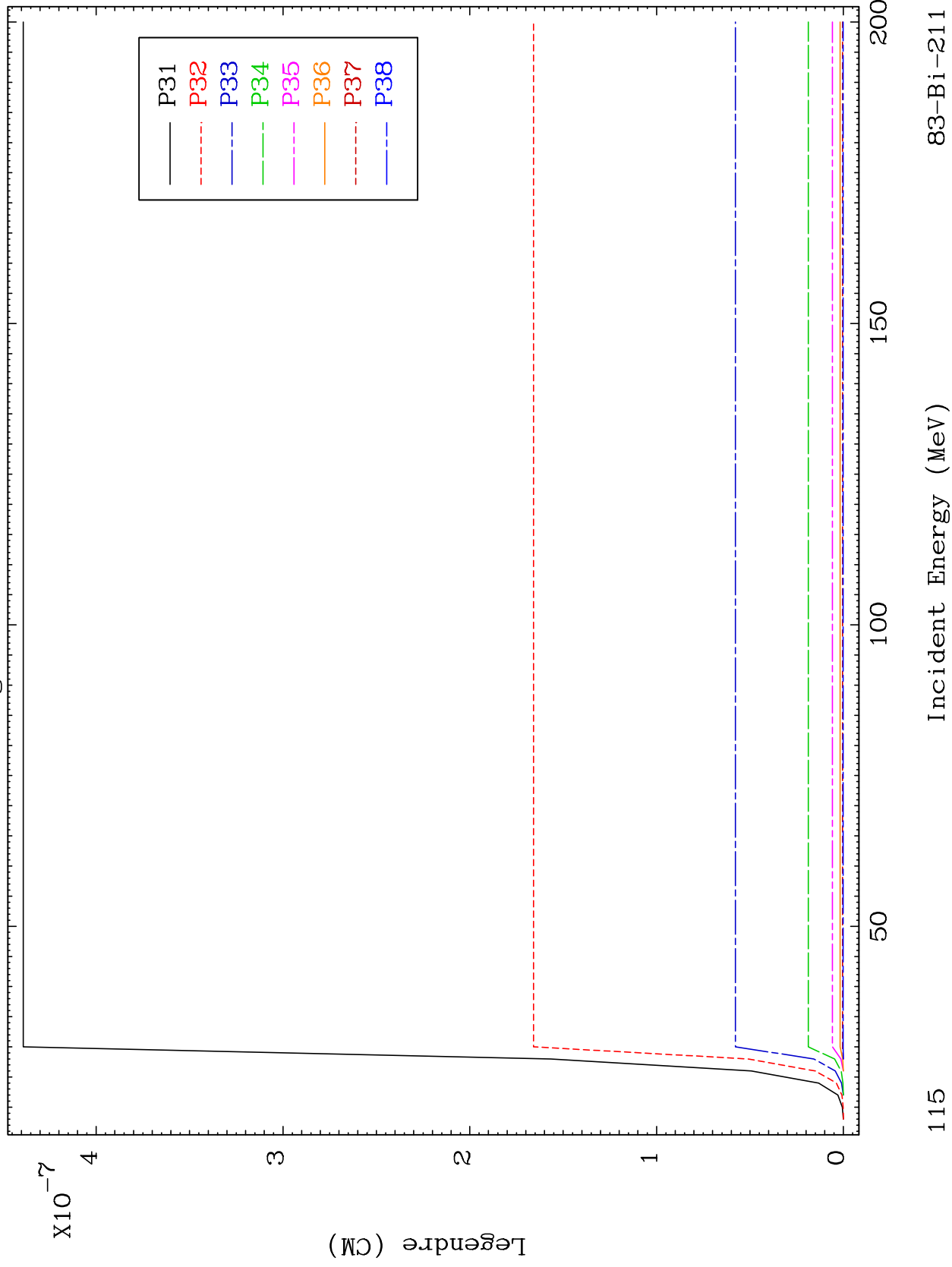
Incident Energy (MeV)

83-Bi-211

MAT 8331

1.307 MeV (n,n') Level
Legendre Coefficients

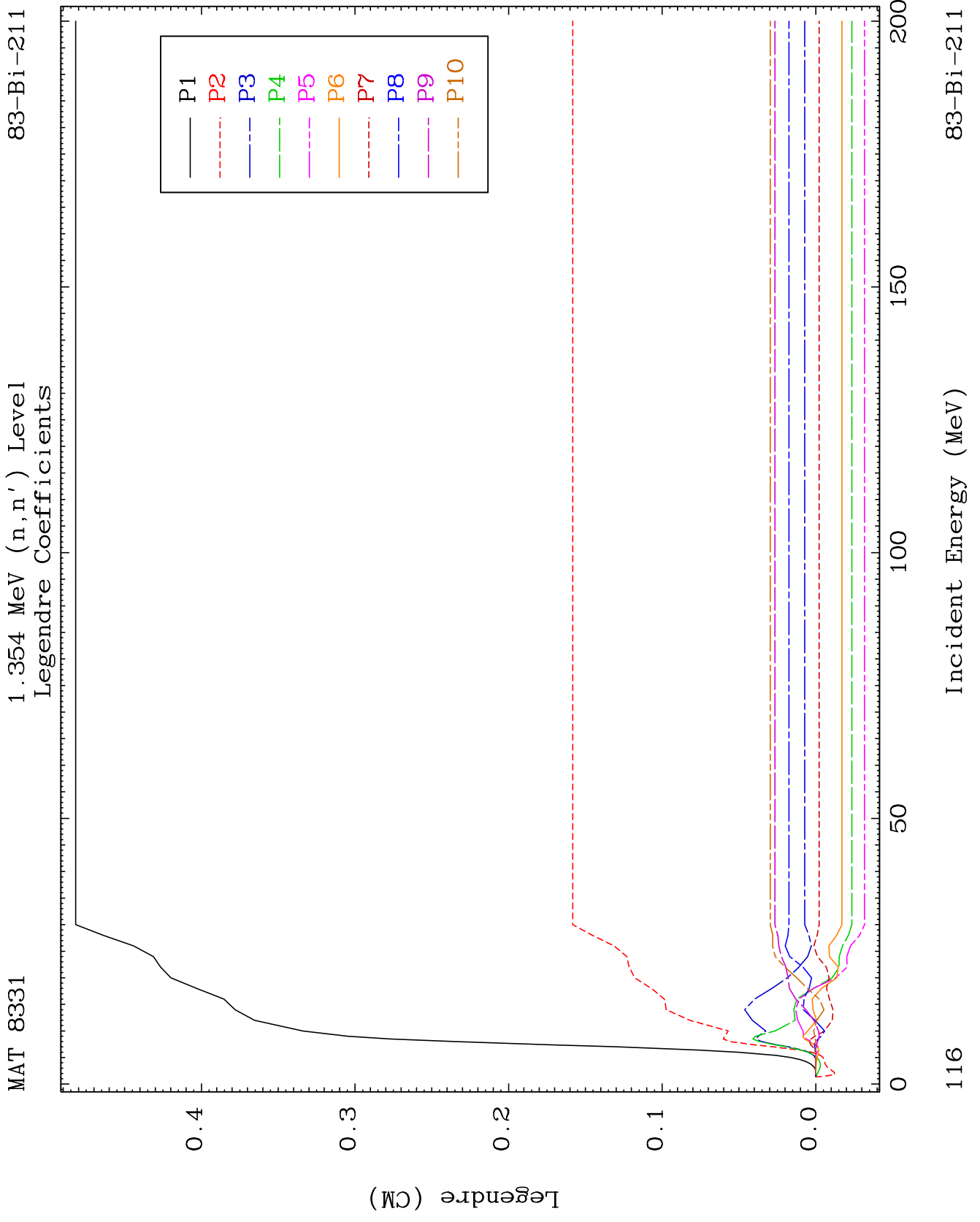
83-Bi-211



115

Incident Energy (MeV)

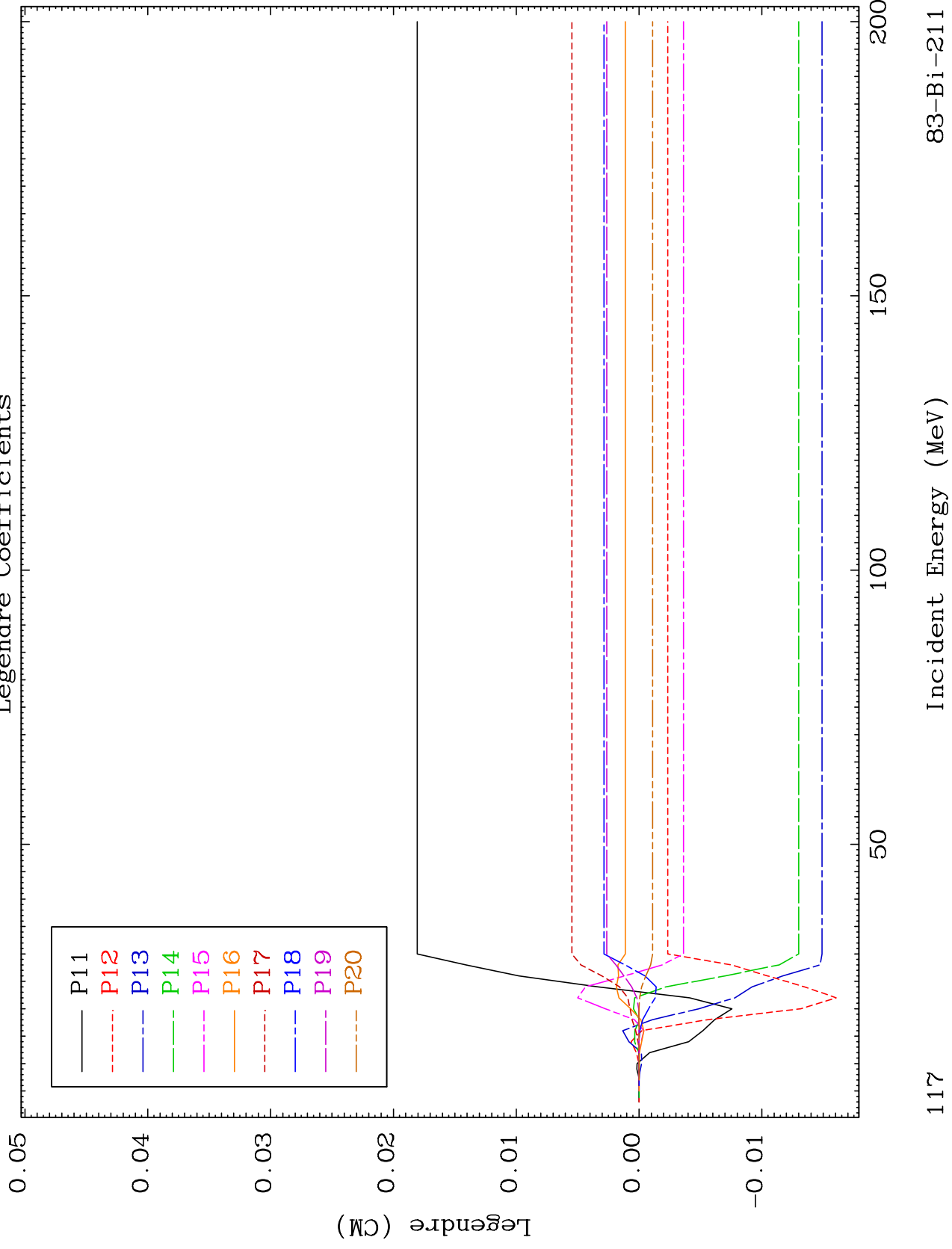
83-Bi-211



MAT 8331

1.354 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



117

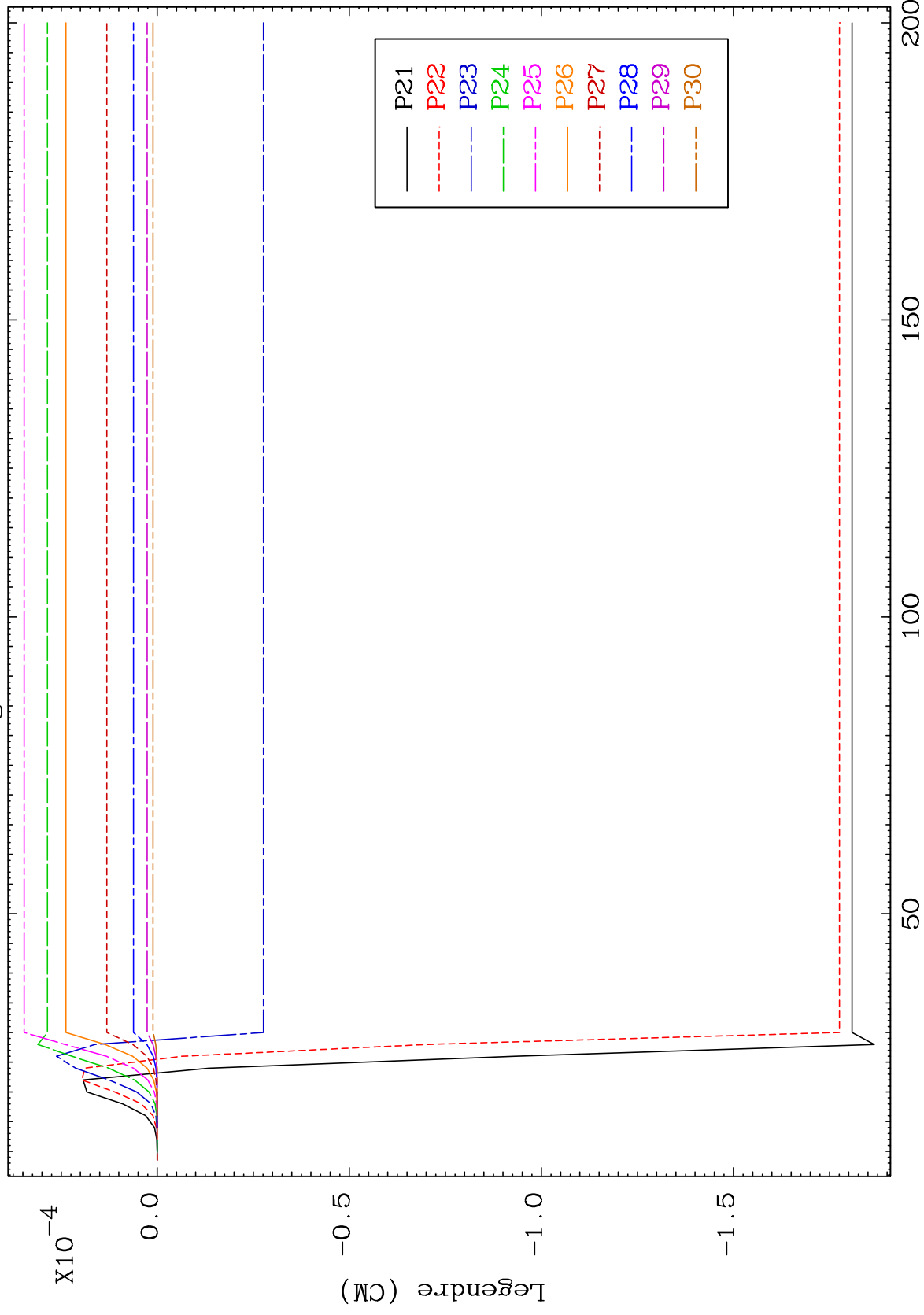
Incident Energy (MeV)

83-Bi-211

MAT 8331

1.354 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



118

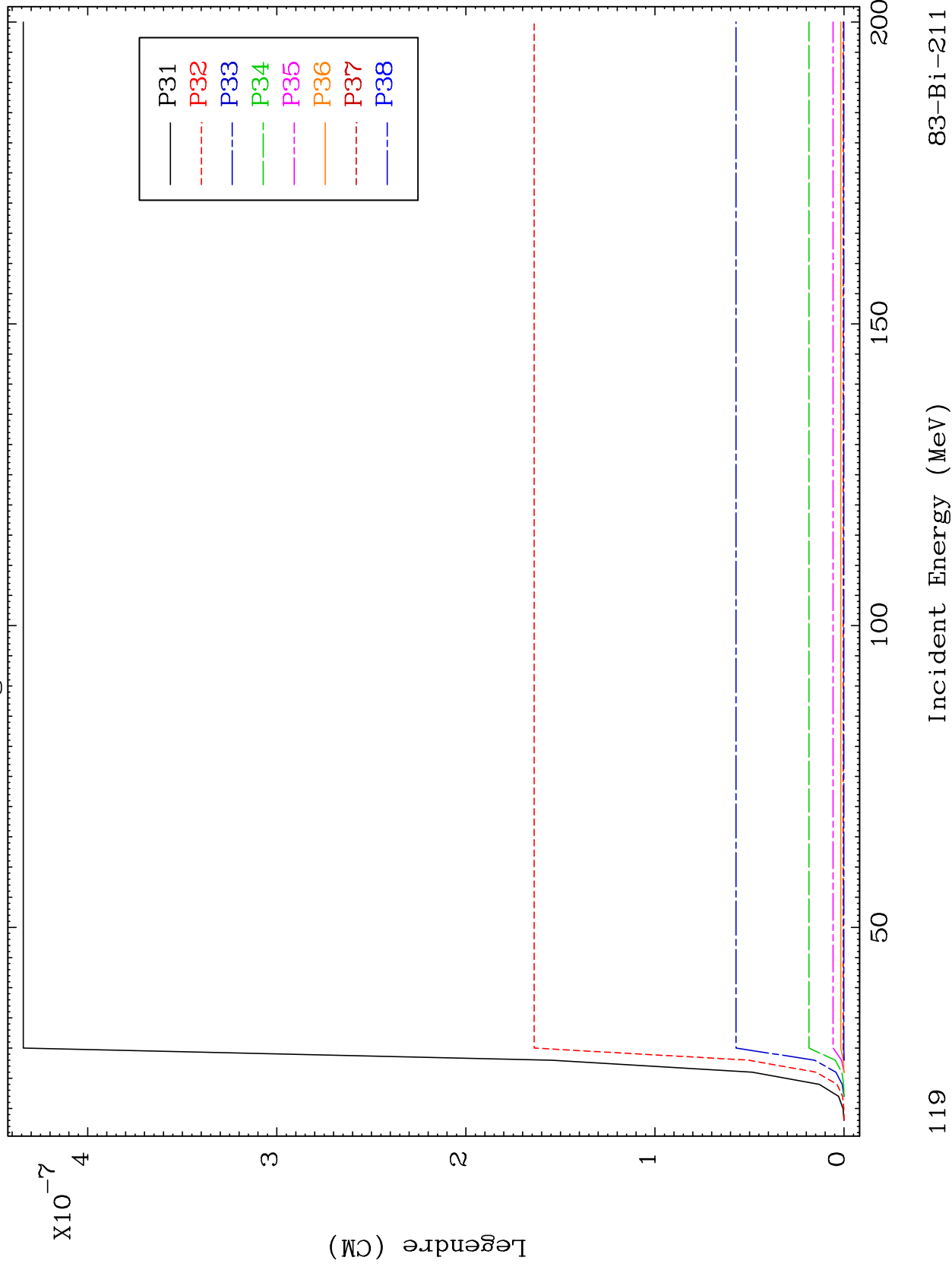
Incident Energy (MeV)

83-Bi-211

MAT 8331

1.354 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



119

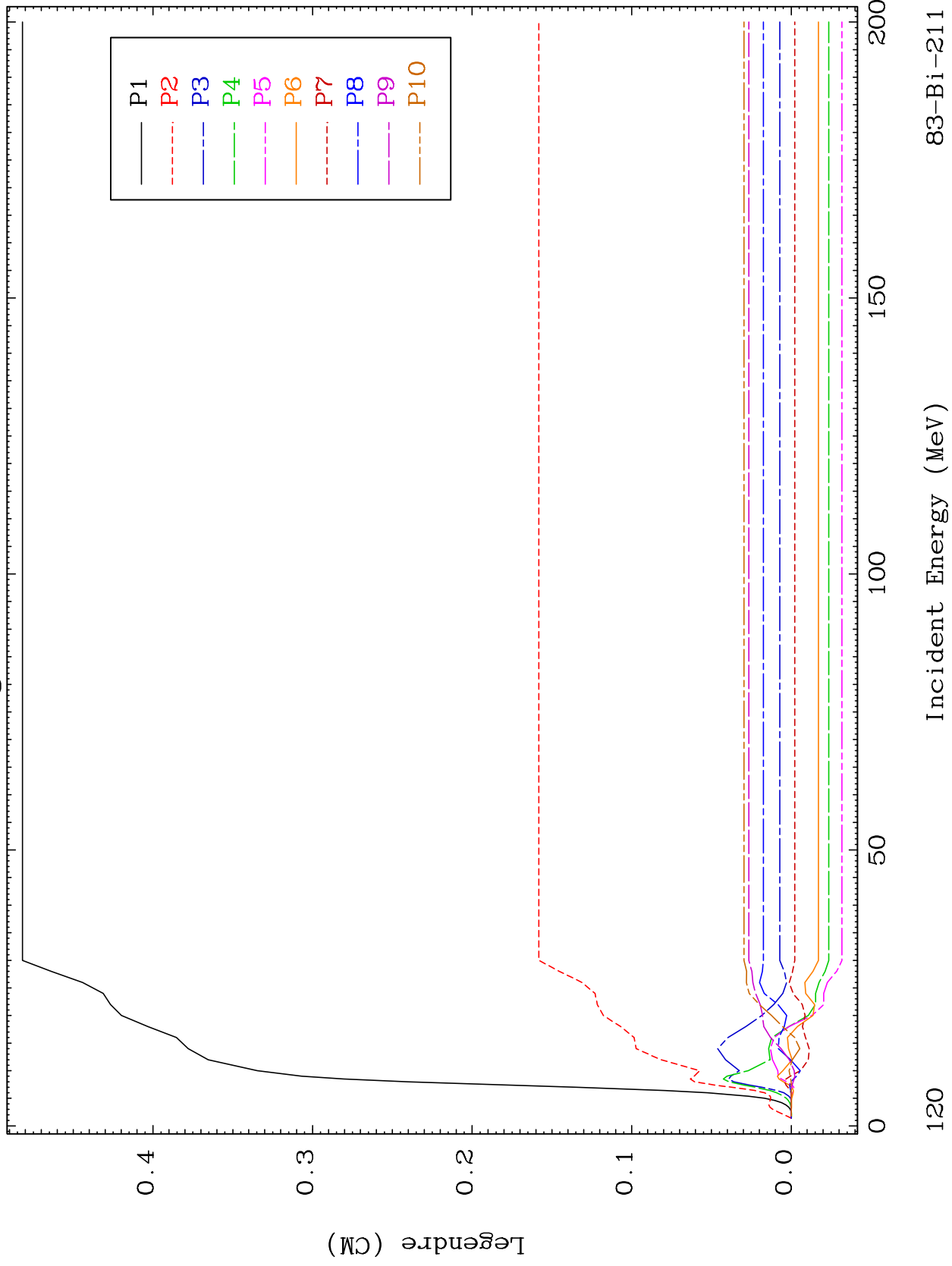
Incident Energy (MeV)

83-Bi-211

MAT 8331

1.369 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



83-Bi-211

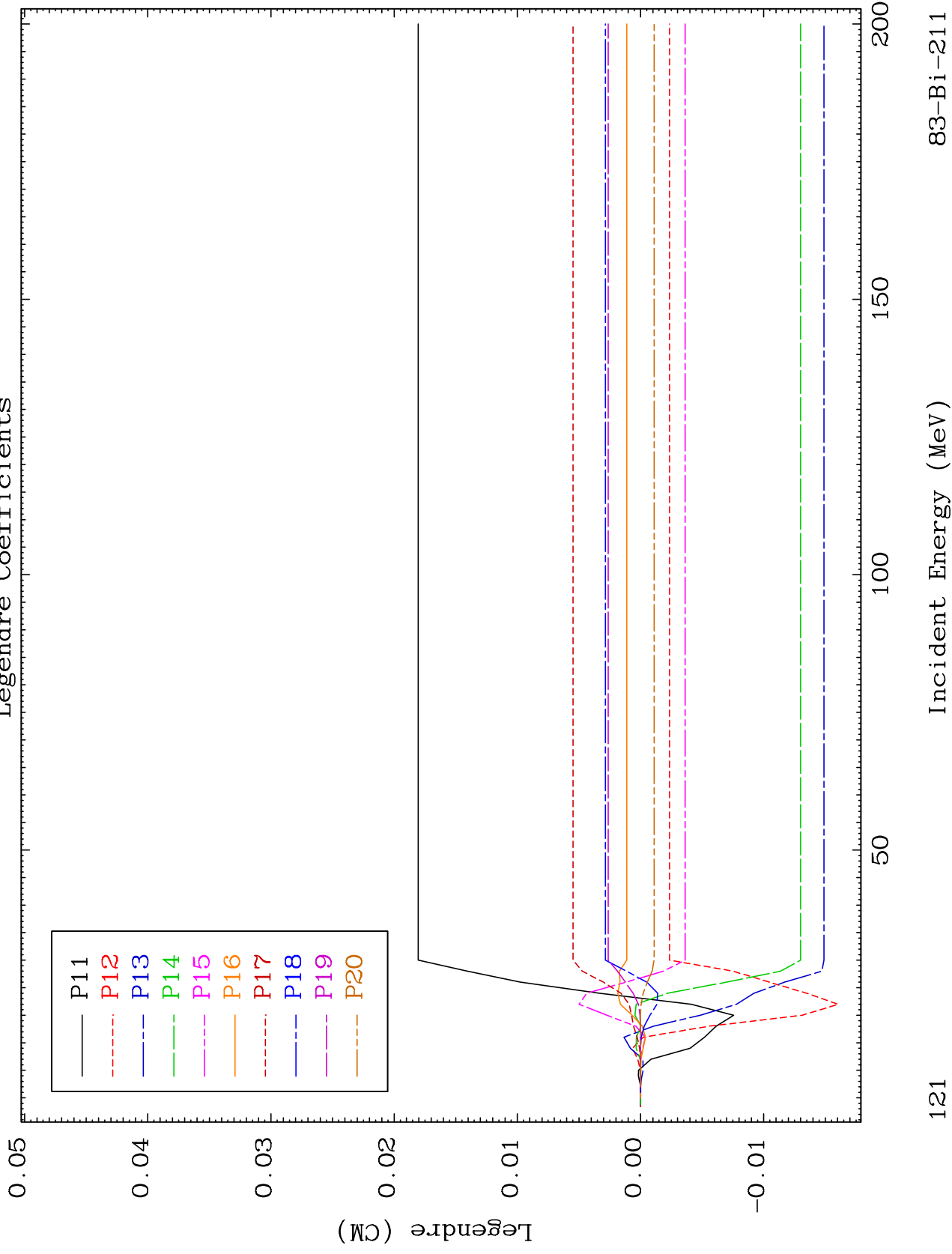
Incident Energy (MeV)

120

MAT 8331

1.369 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



121

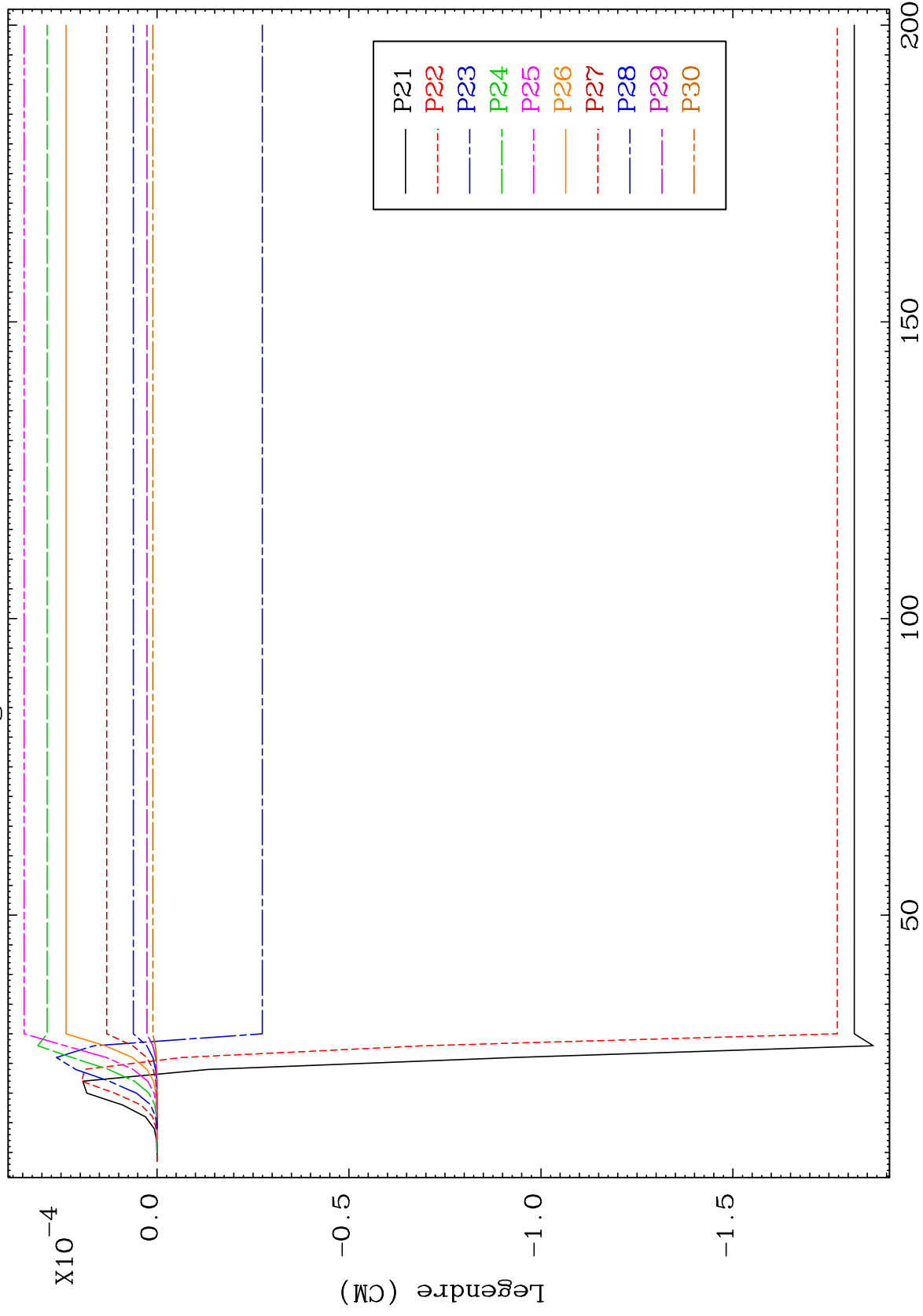
Incident Energy (MeV)

83-Bi-211

MAT 8331

1.369 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



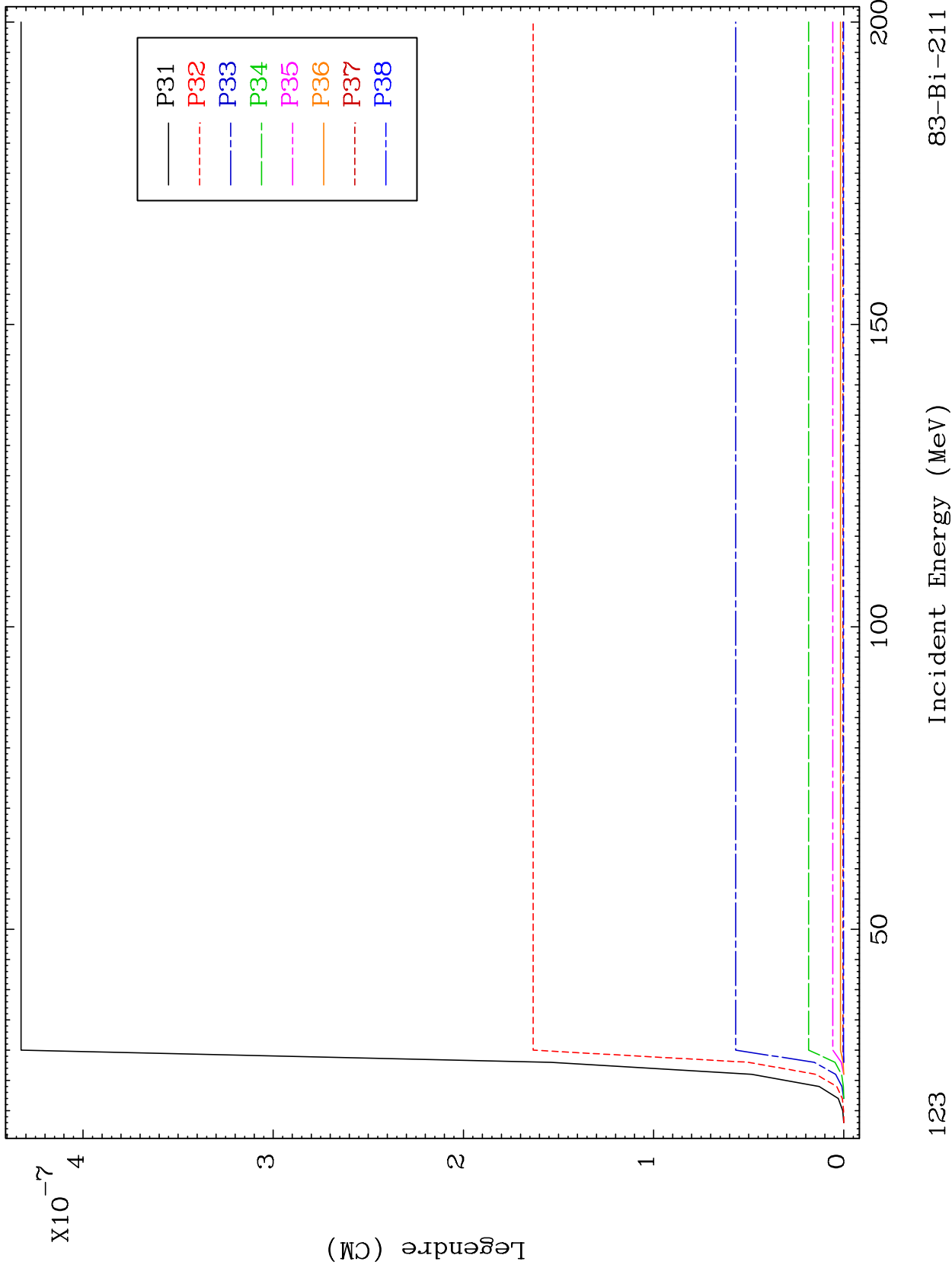
122

83-Bi-211

MAT 8331

1.369 MeV (n,n') Level
Legendre Coefficients

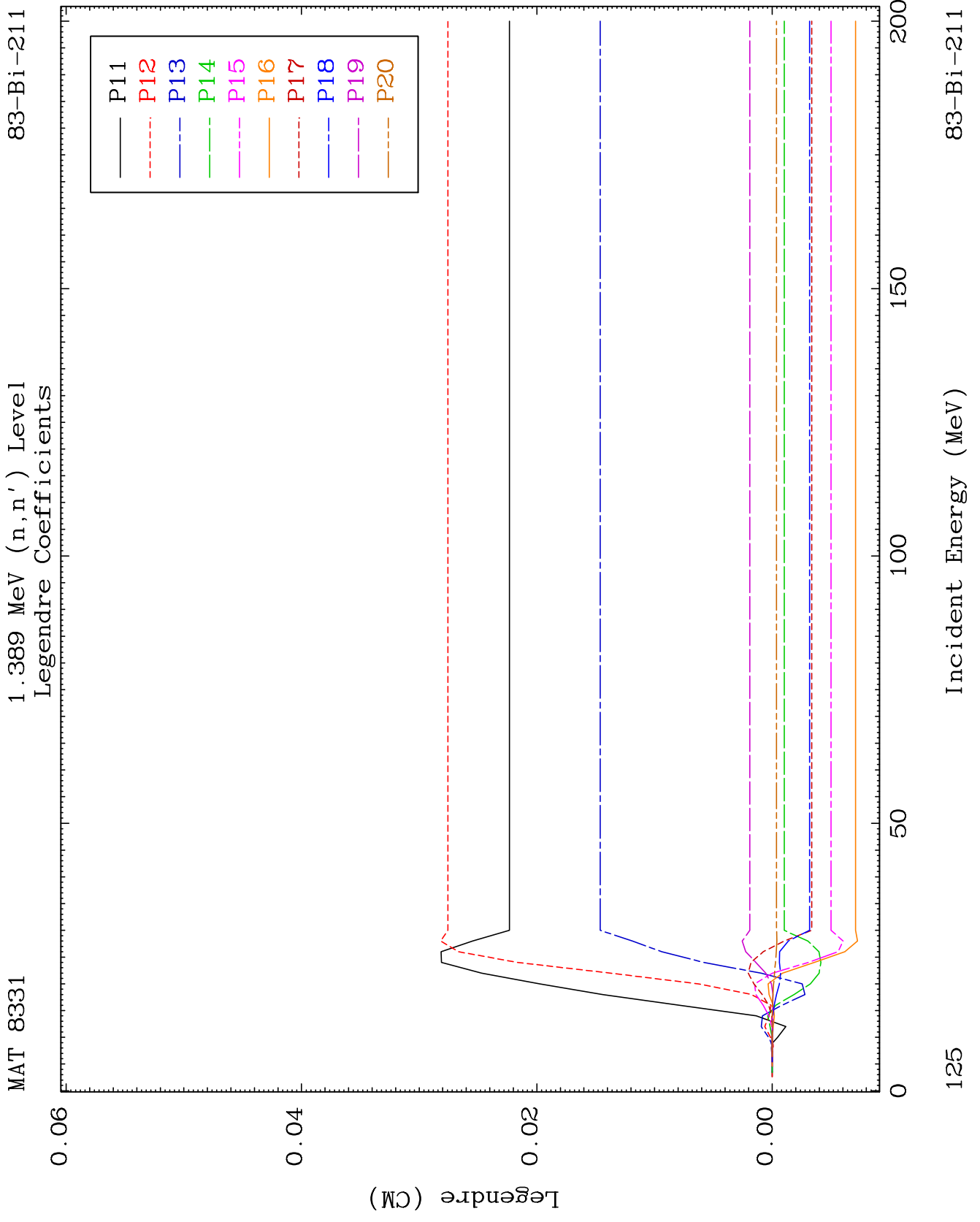
83-Bi-211



123

Incident Energy (MeV)

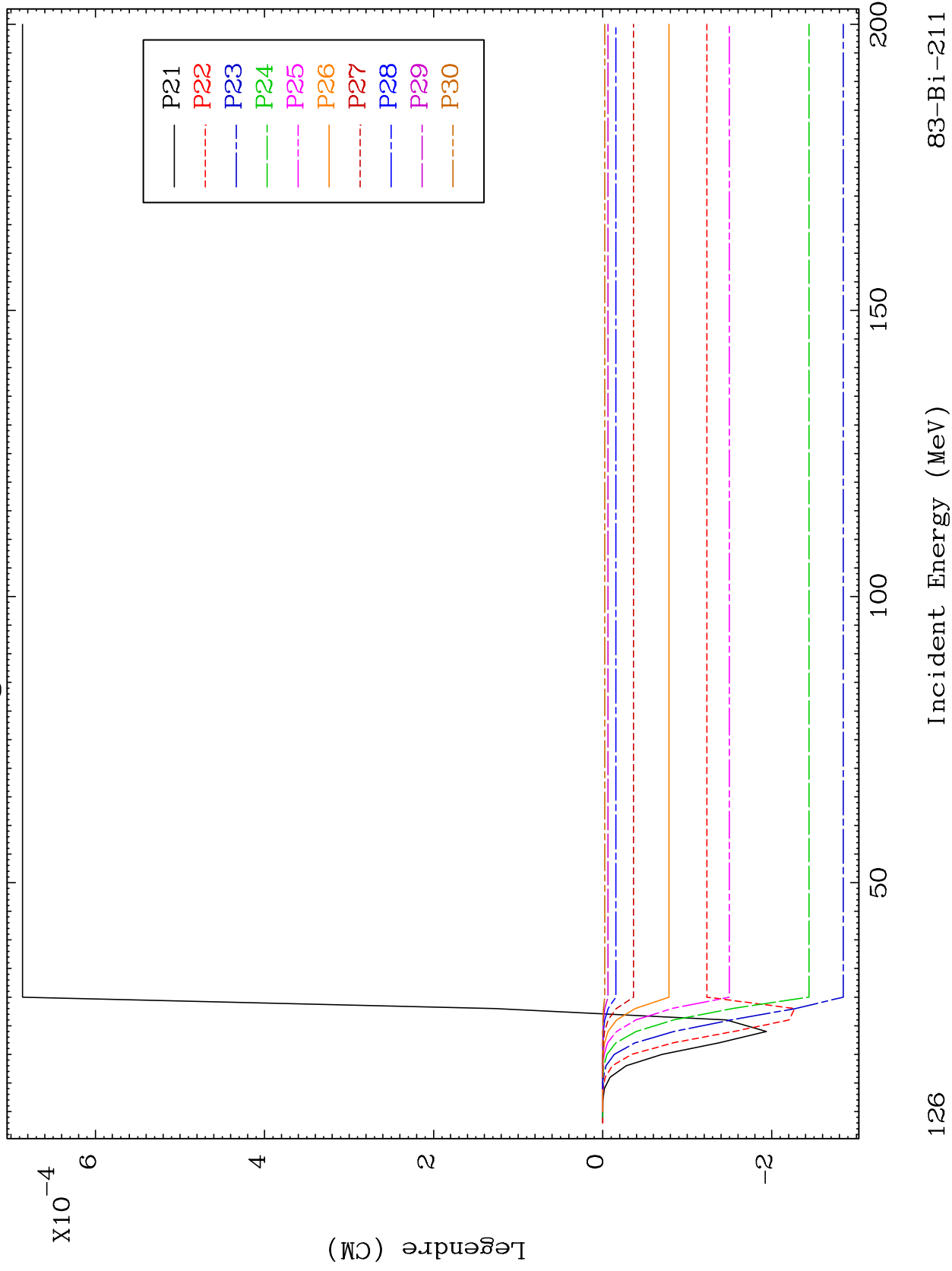
83-Bi-211



MAT 8331

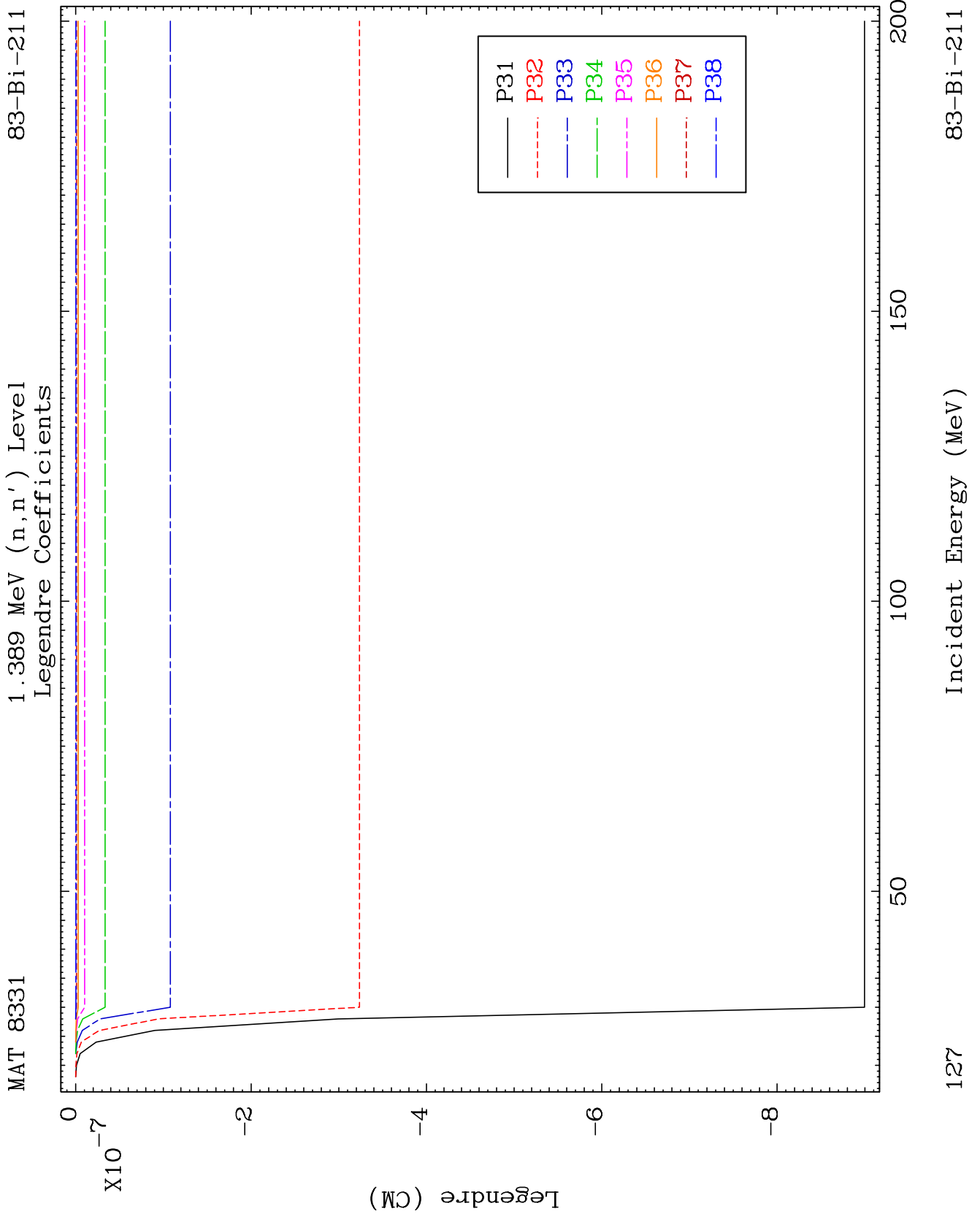
1.389 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



126

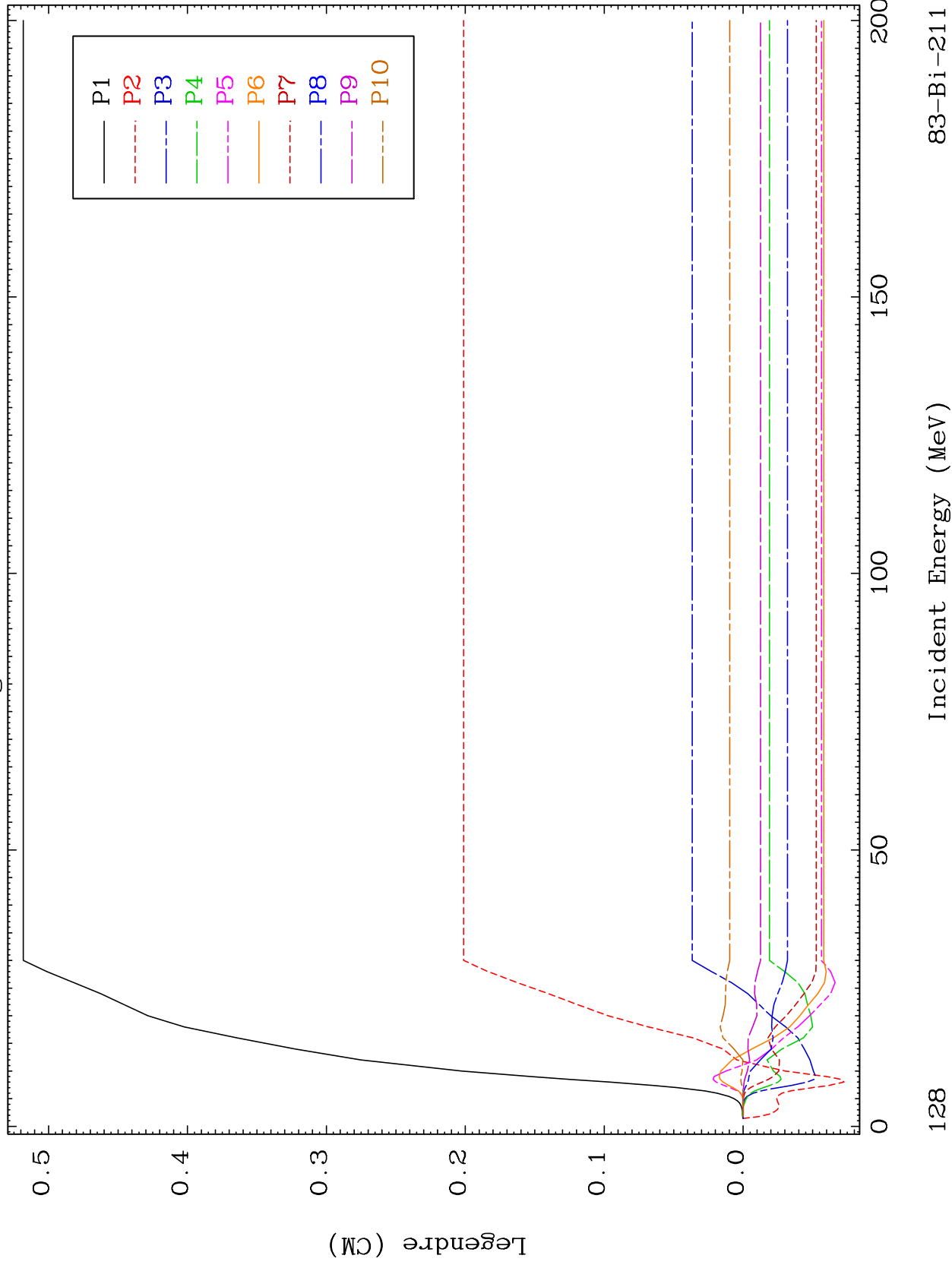
83-Bi-211



MAT 8331

1.398 MeV (n,n') Level
Legendre Coefficients

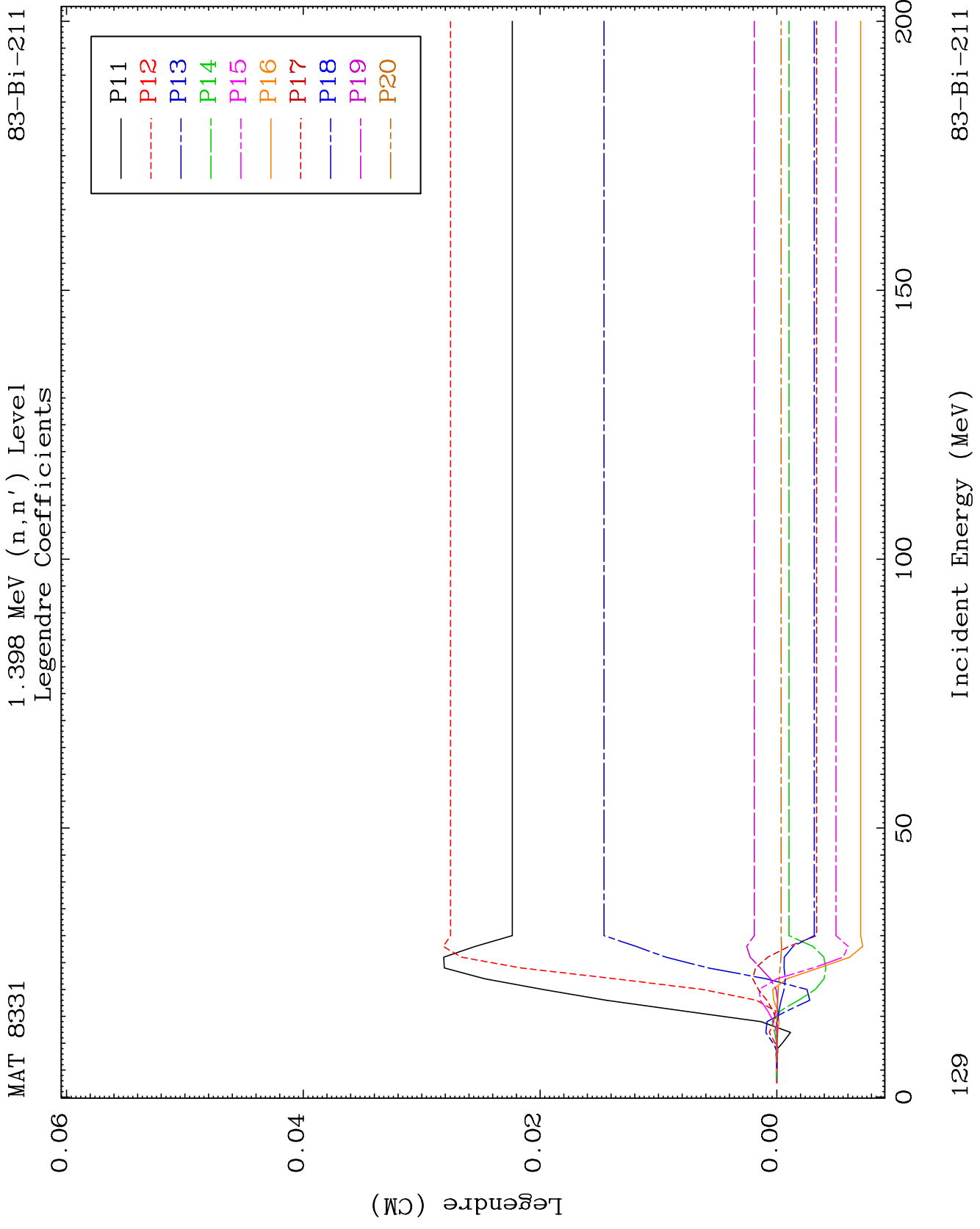
83-Bi-211



83-Bi-211

Incident Energy (MeV)

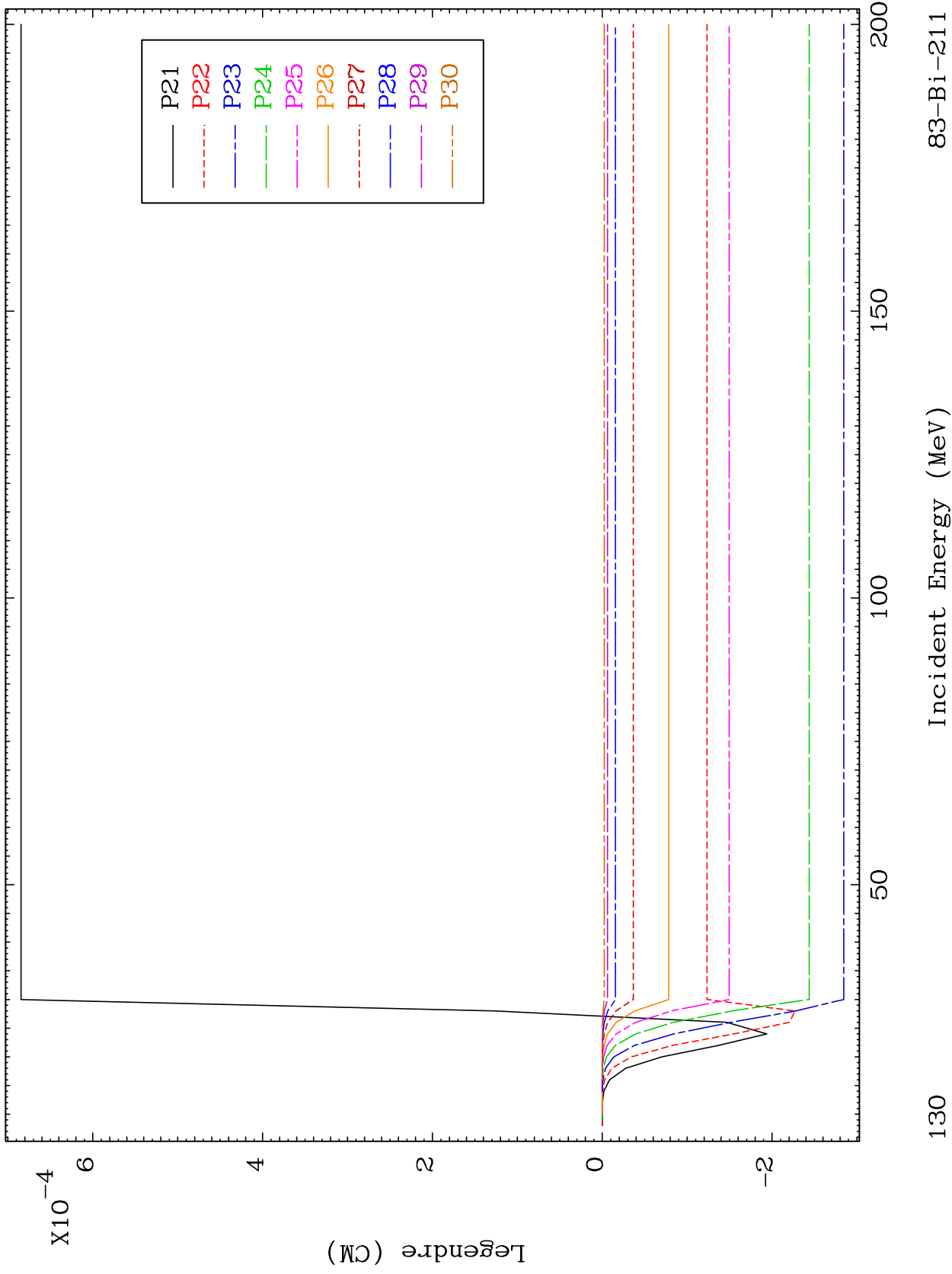
128



MAT 8331

1.398 MeV (n,n') Level
Legendre Coefficients

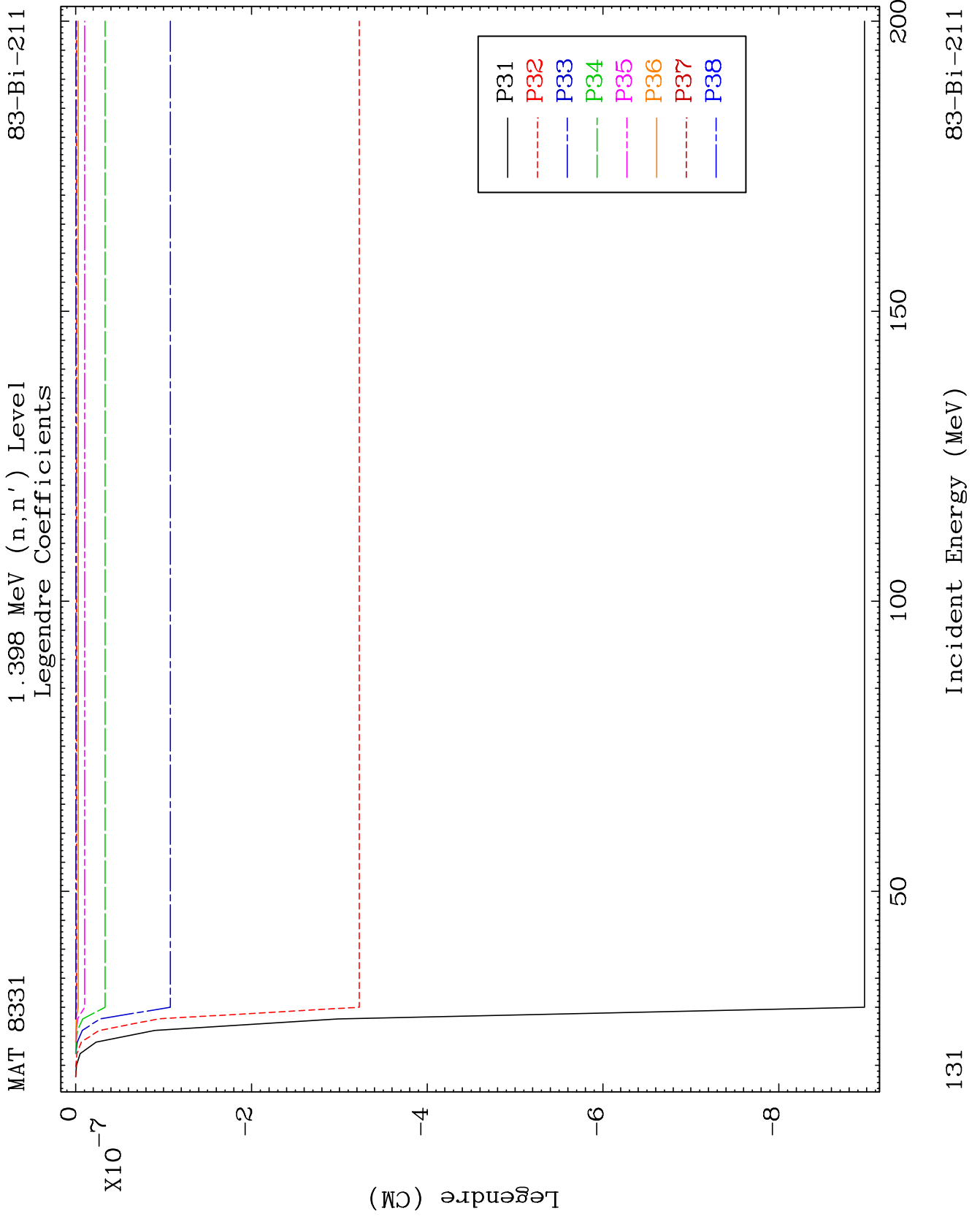
83-Bi-211



130

Incident Energy (MeV)

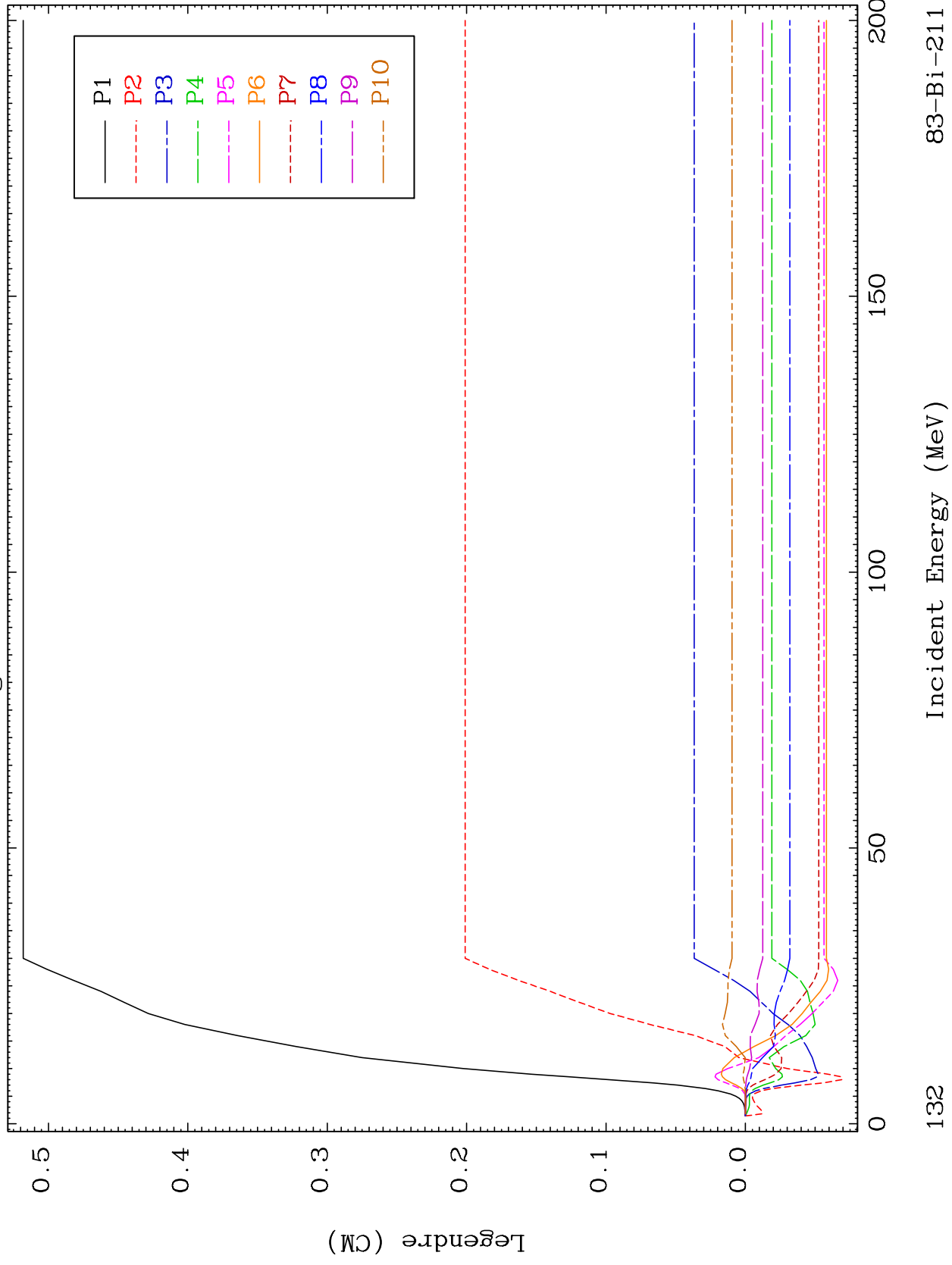
83-Bi-211



MAT 8331

1.420 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



83-Bi-211

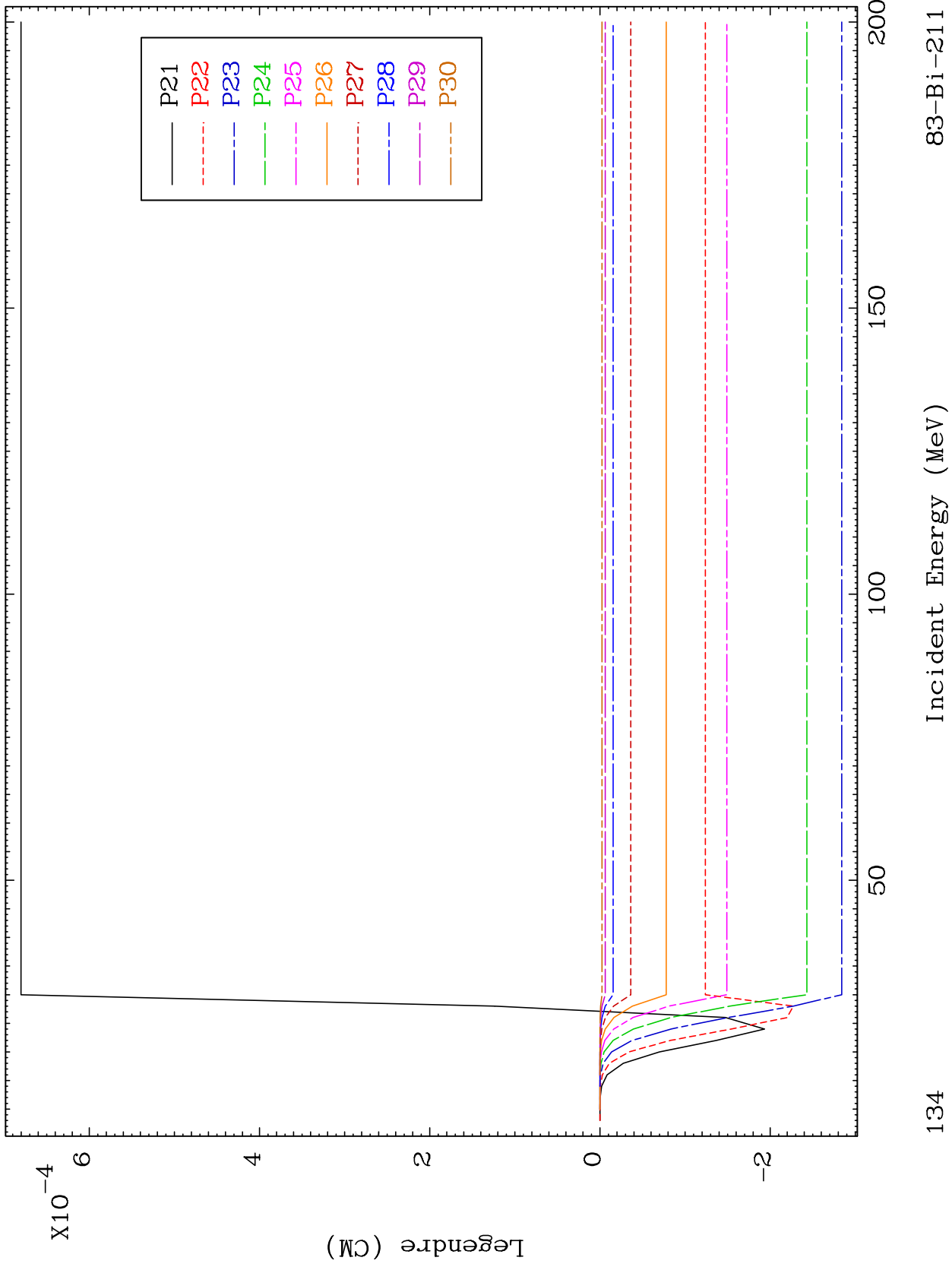
Incident Energy (MeV)

132

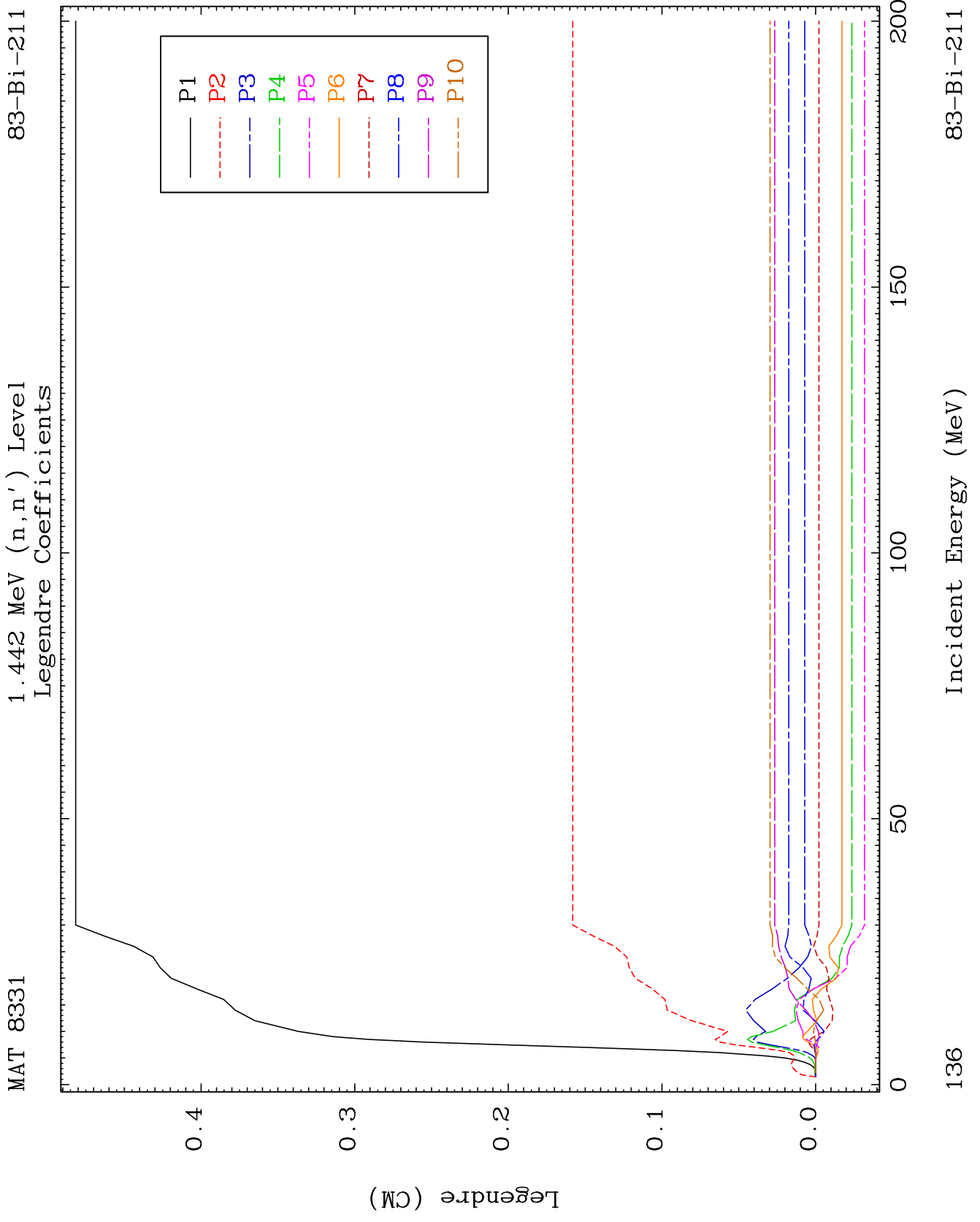
MAT 8331

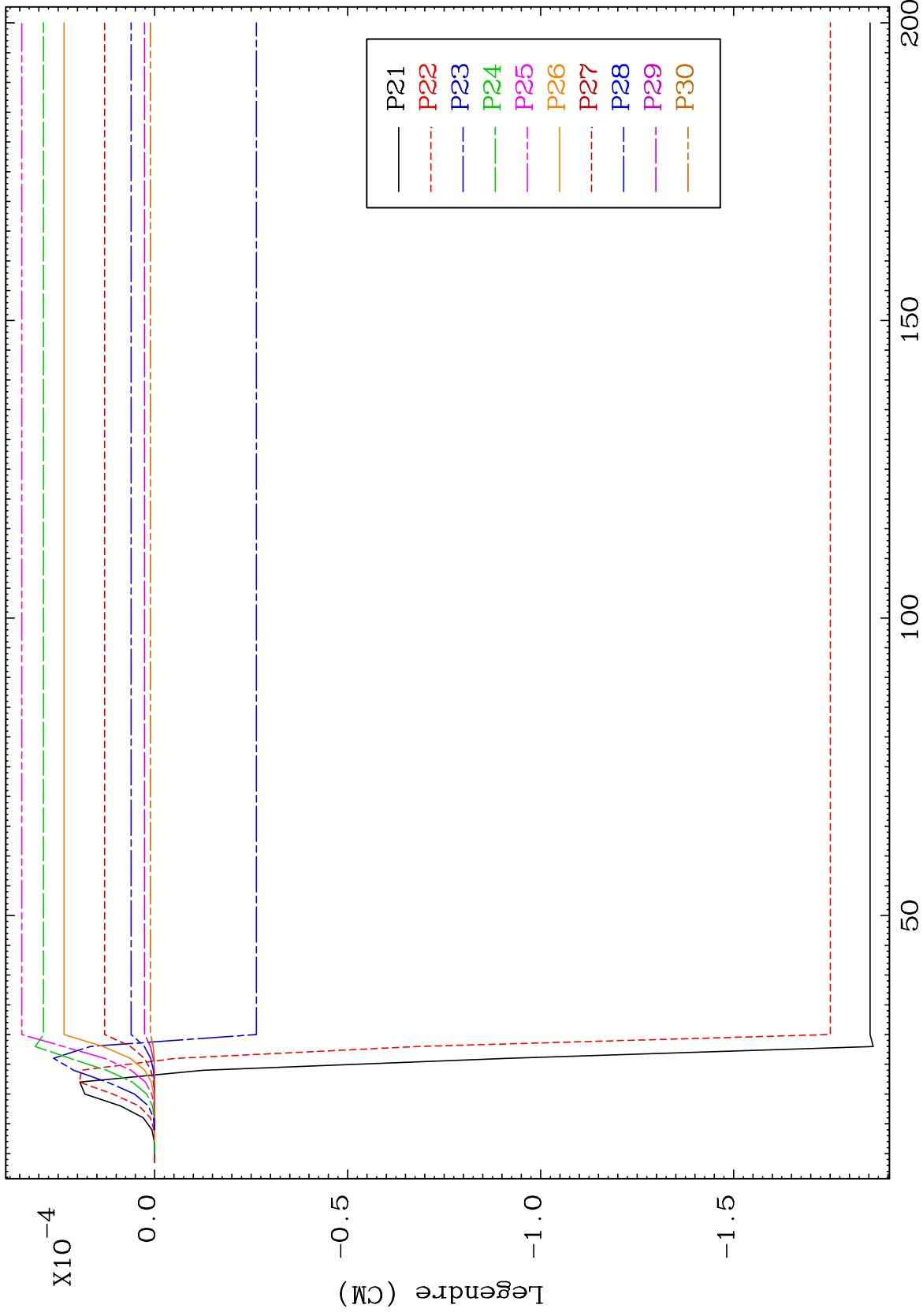
1.420 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



134

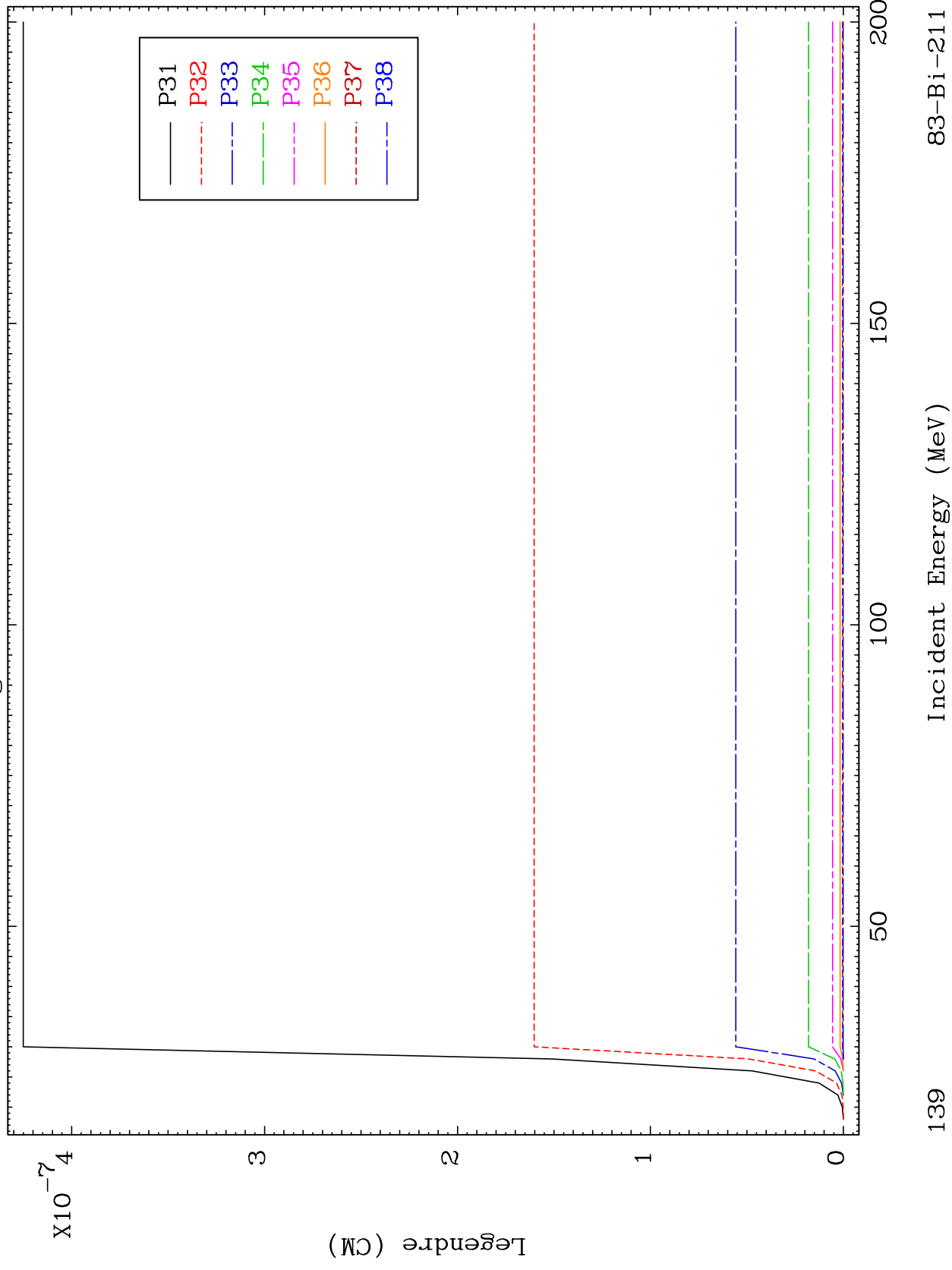




MAT 8331

1.442 MeV (n,n') Level
Legendre Coefficients

83-Bi-211



139

Incident Energy (MeV)

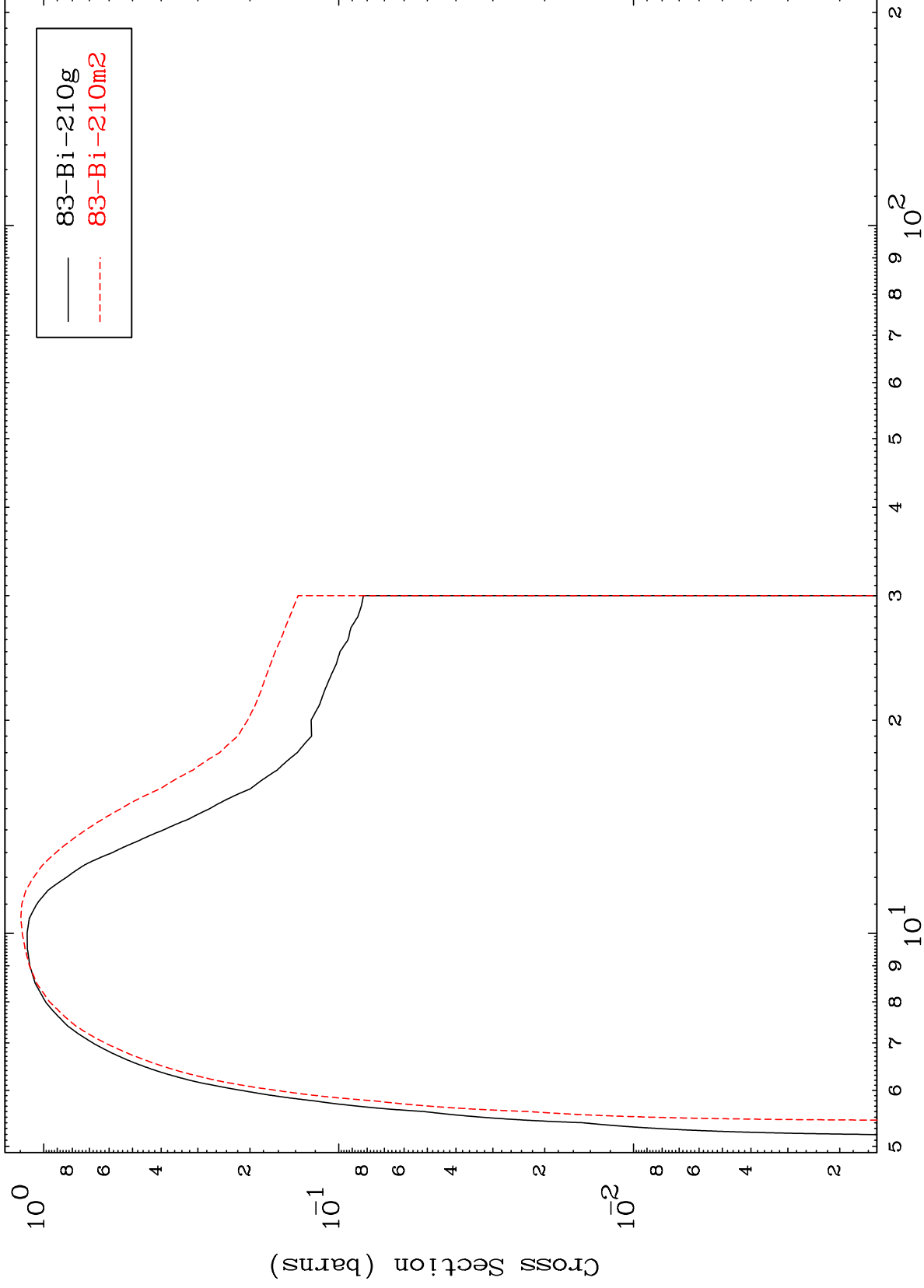
83-Bi-211

MAT 8331

(n,2n)

83-Bi-211

Radionuclide Production Cross Section



140

Incident Energy (MeV)

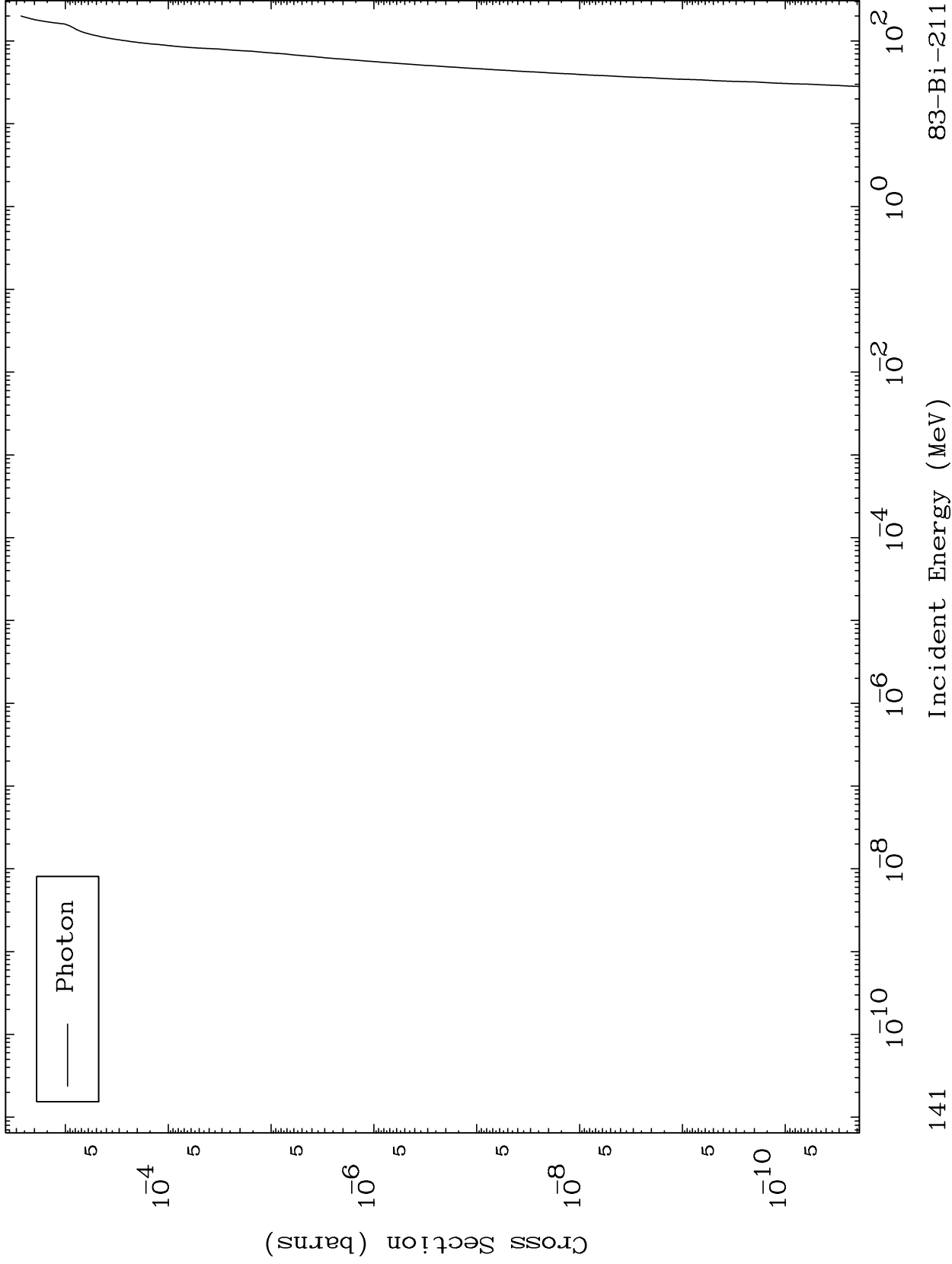
83-Bi-211

MAT 8331

Fission

83-Bi-211

Radionuclide Production Cross Section



141

Incident Energy (MeV)

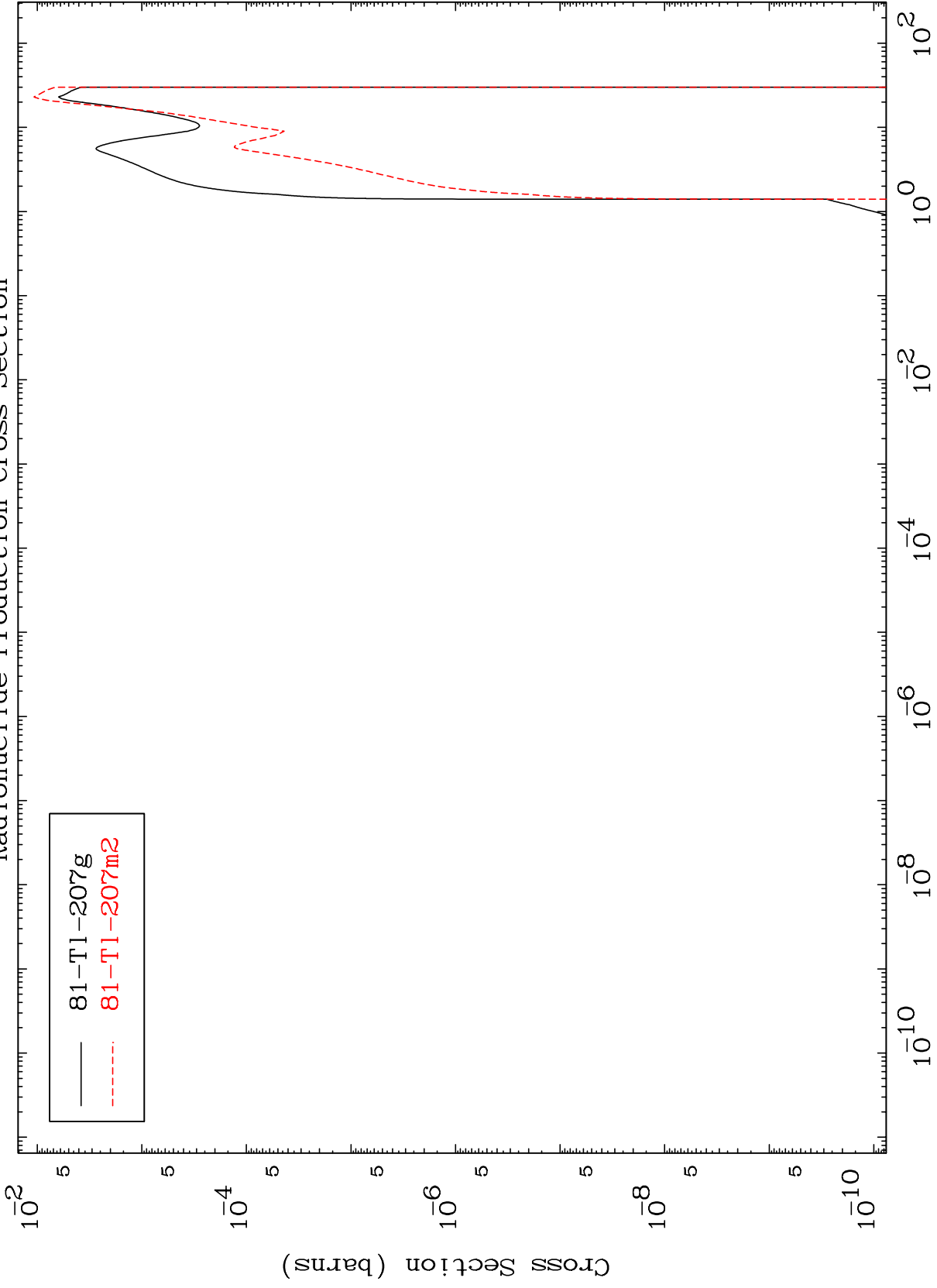
83-Bi-211

MAT 8331

$(n, n') \alpha$

83-Bi-211

Radionuclide Production Cross Section

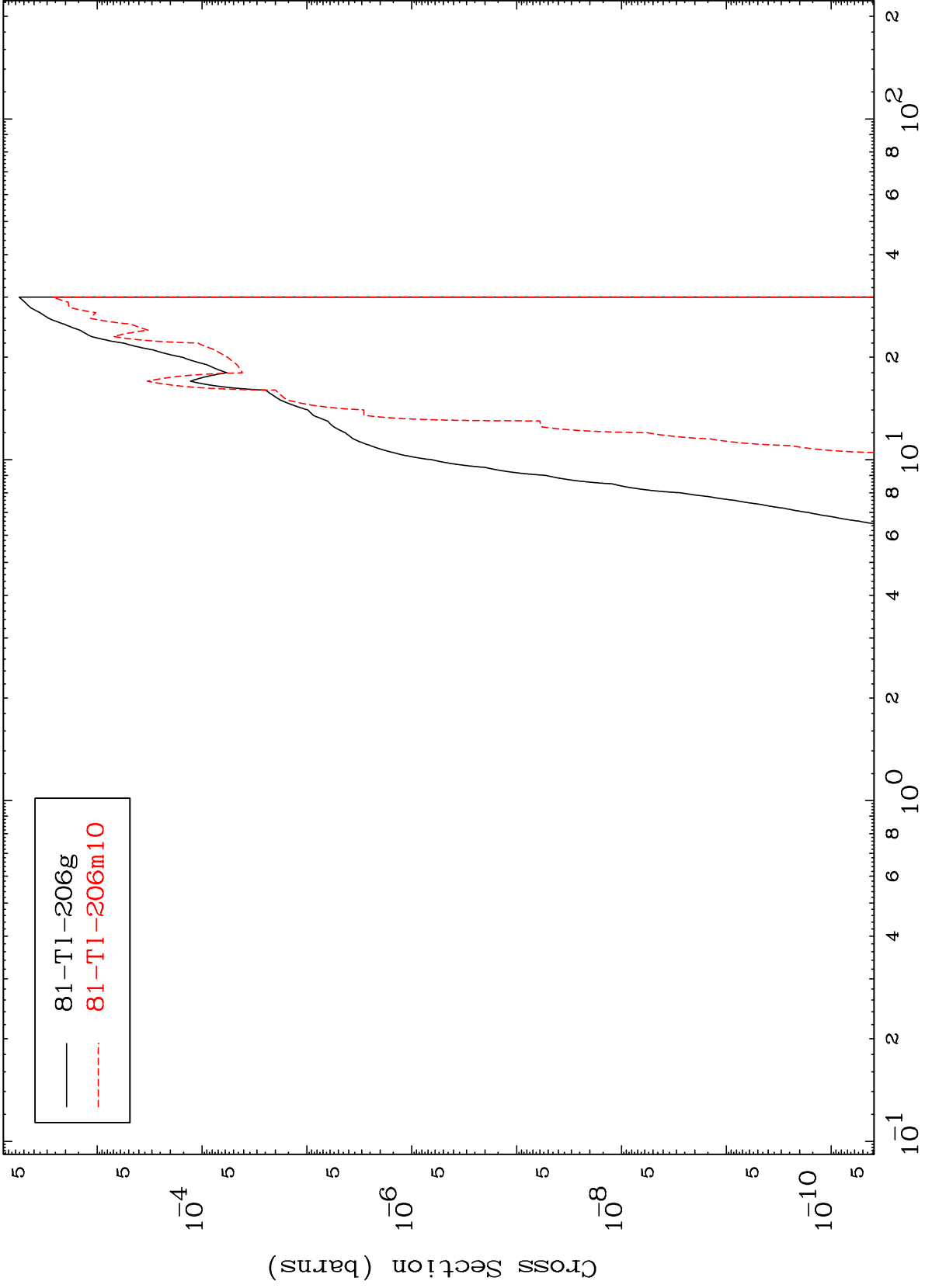


MAT 8331

$(n,2n) \alpha$

83-Bi-211

Radionuclide Production Cross Section



143

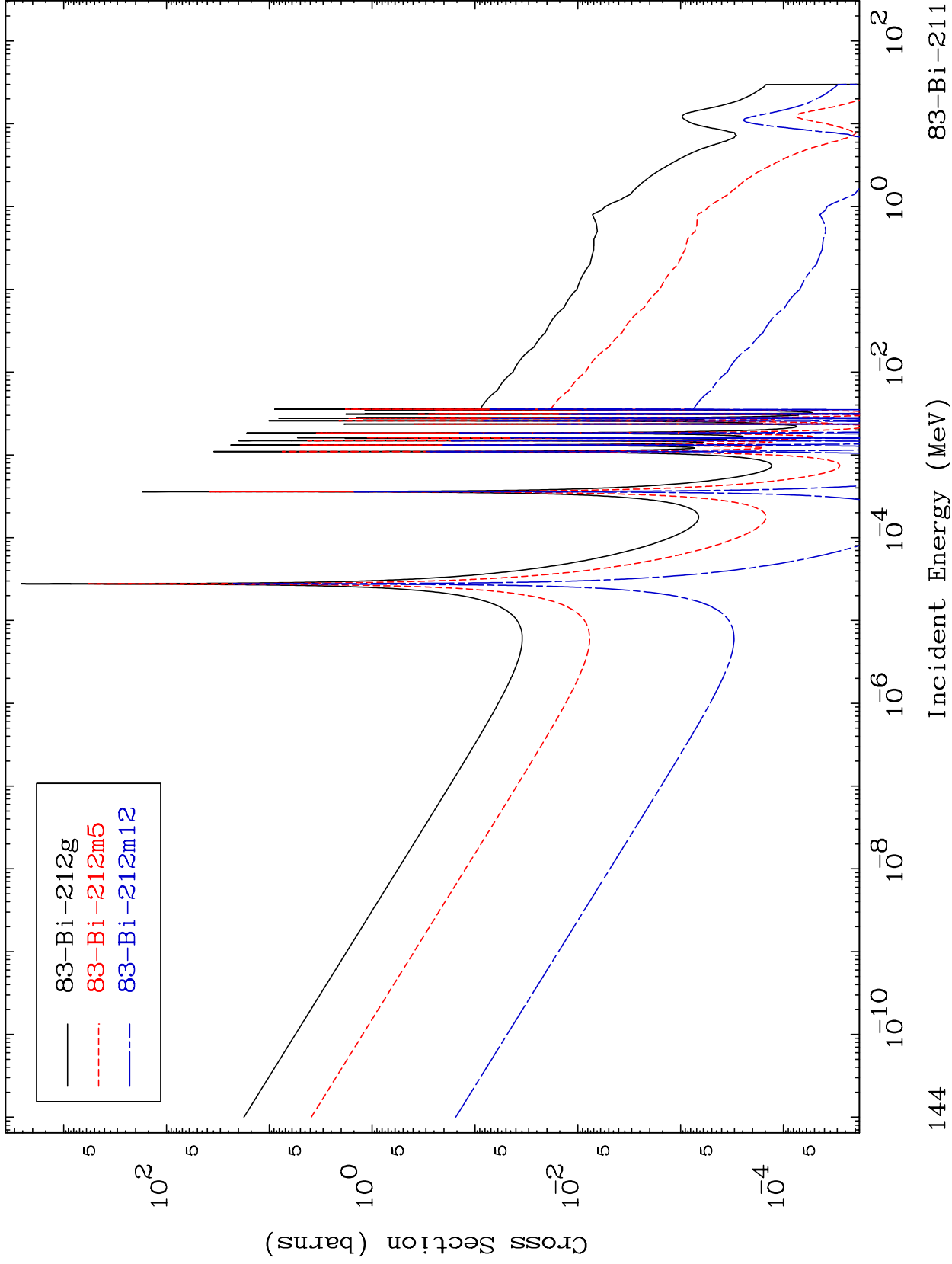
Incident Energy (MeV)

83-Bi-211

MAT 8331

83-Bi-211

(n,γ)
Radionuclide Production Cross Section



144

83-Bi-211