

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

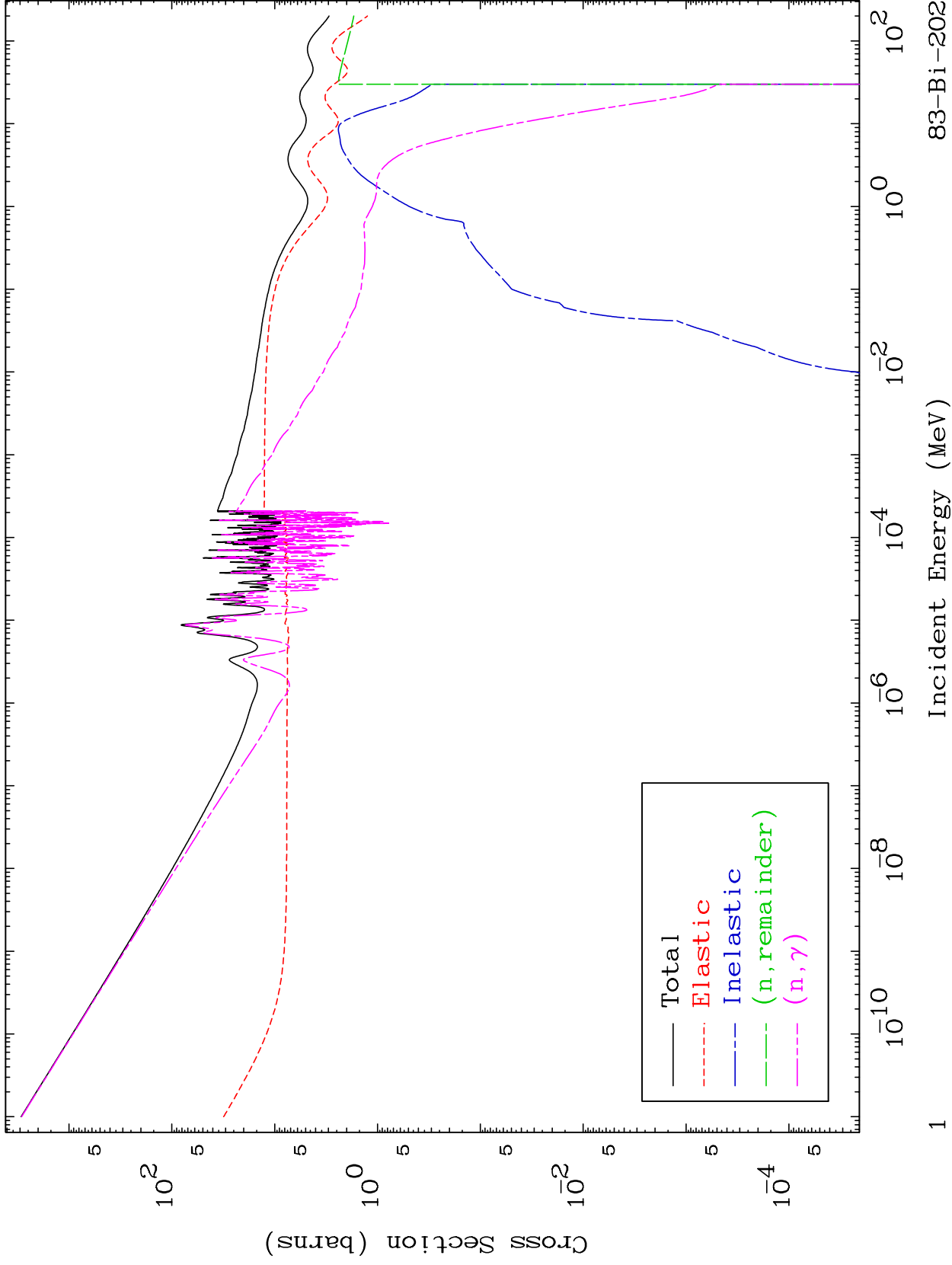
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 8304

Major
293 Kelvin Cross Sections

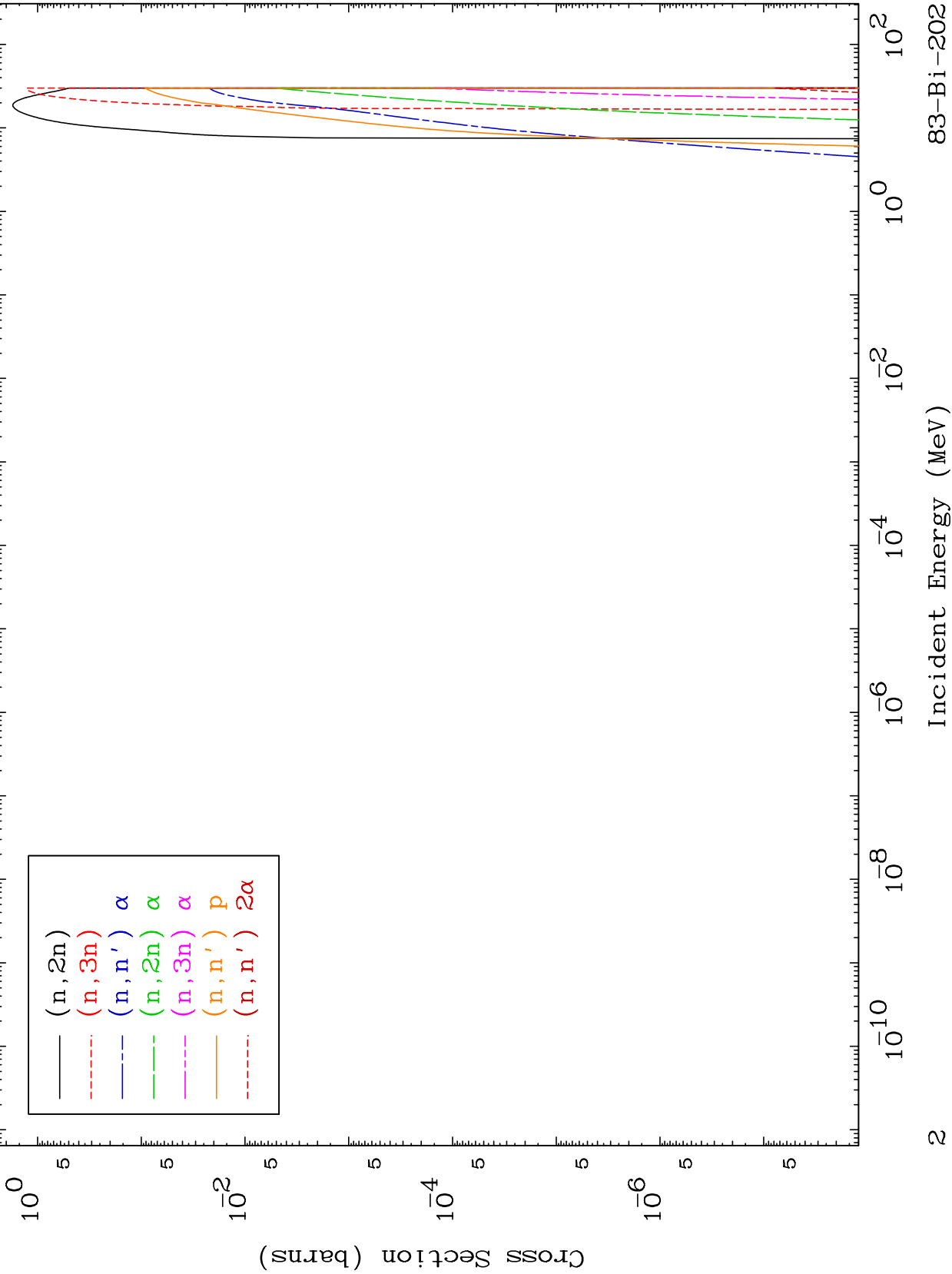
83-Bi-202



MAT 8304

Neutron Production
293 Kelvin Cross Sections

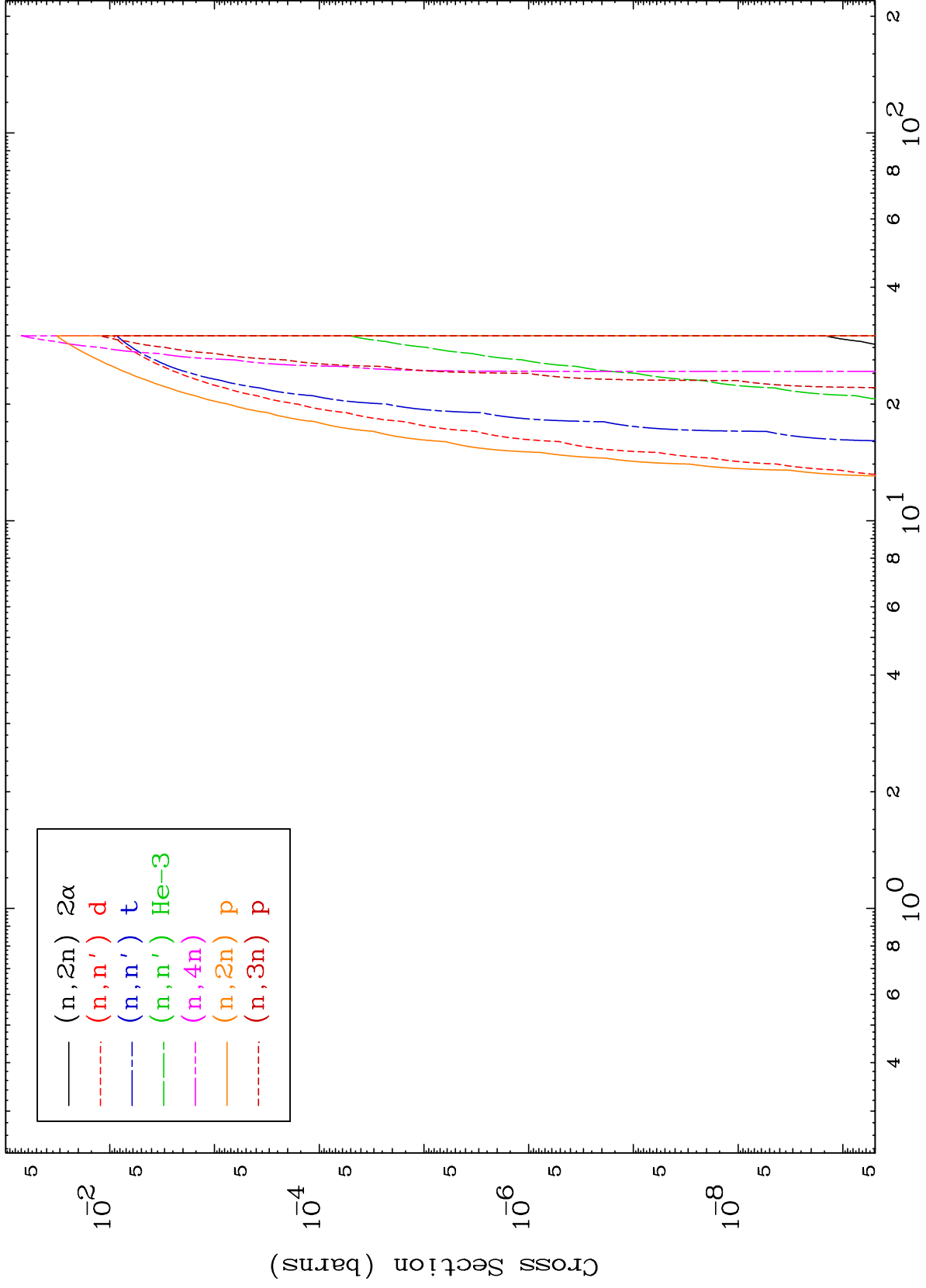
83-Bi-202



MAT 8304

Neutron Production
293 Kelvin Cross Sections

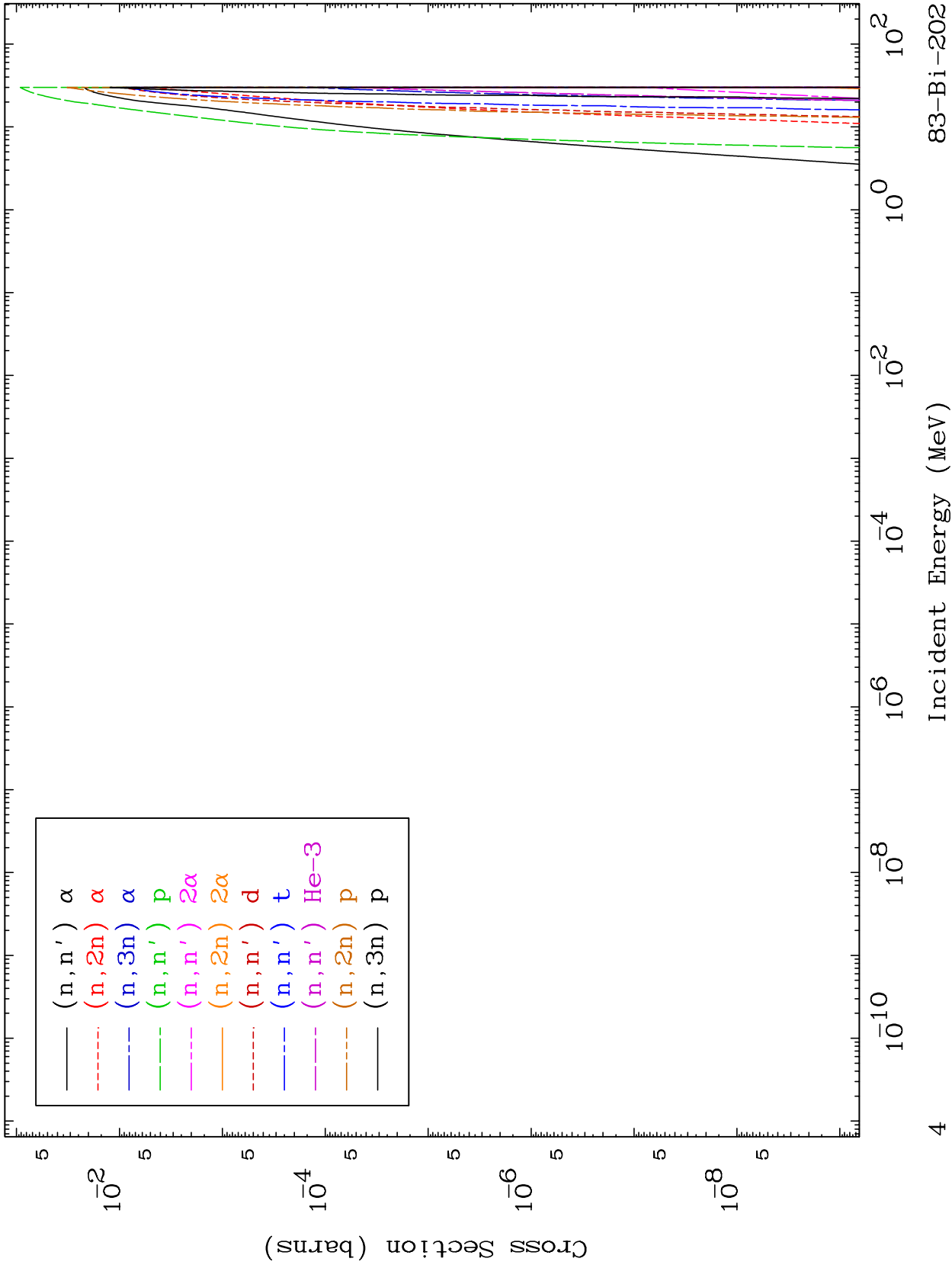
83-Bi-202



MAT 8304

Charged Particle
293 Kelvin Cross Sections

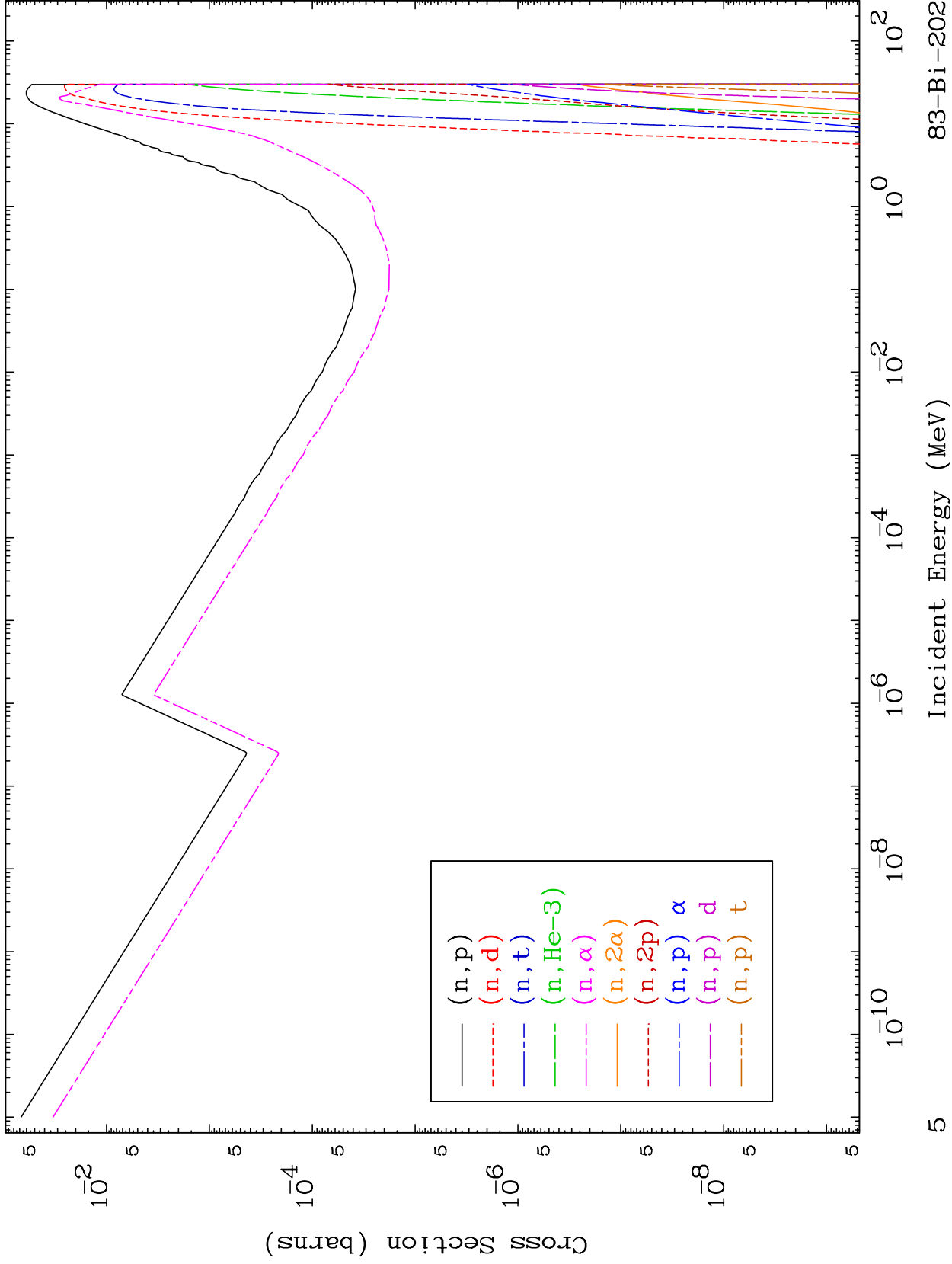
83-Bi-202



MAT 8304

Charged Particle
293 Kelvin Cross Sections

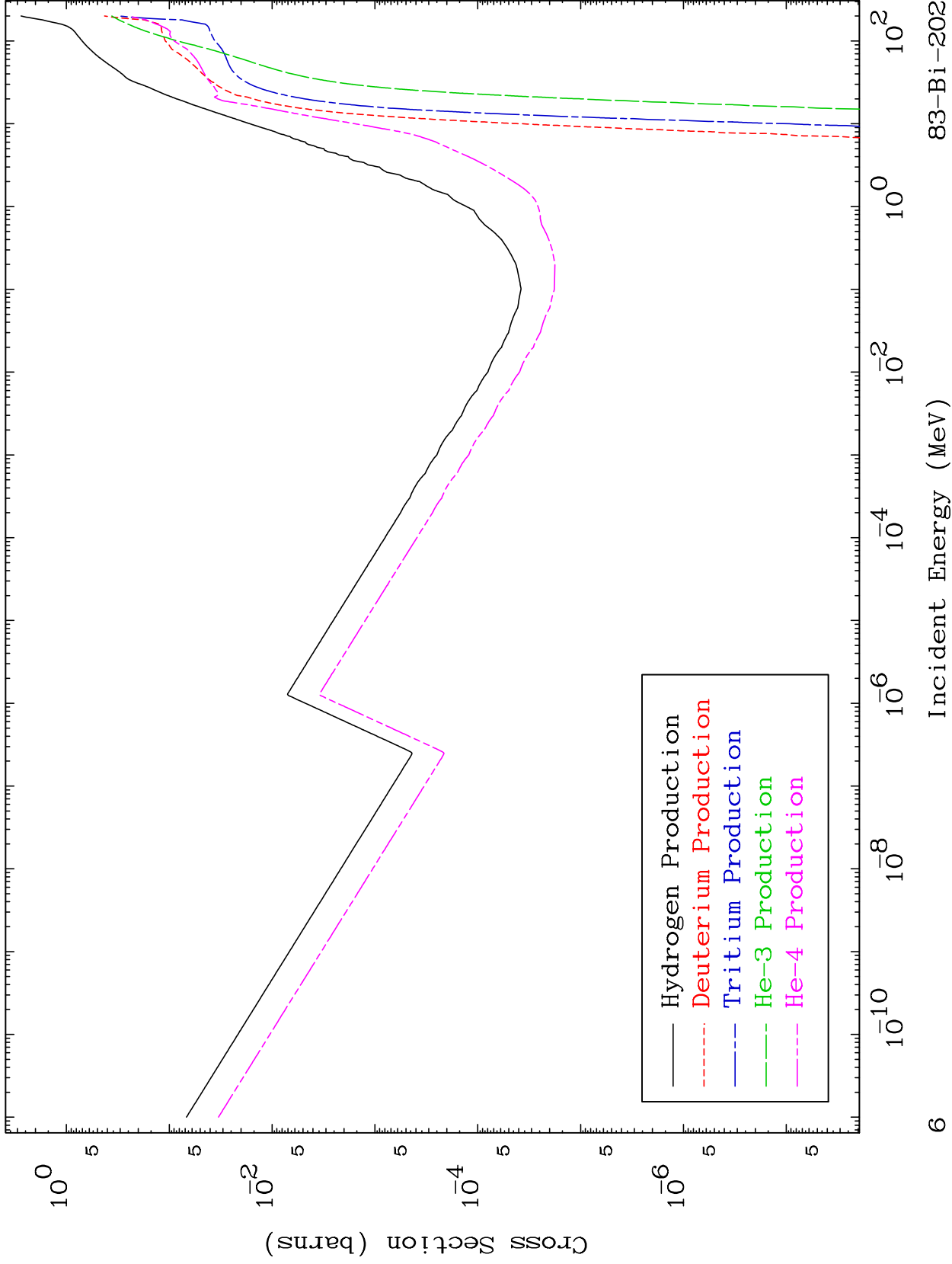
83-Bi-202



MAT 8304

Particle Production
293 Kelvin Cross Sections

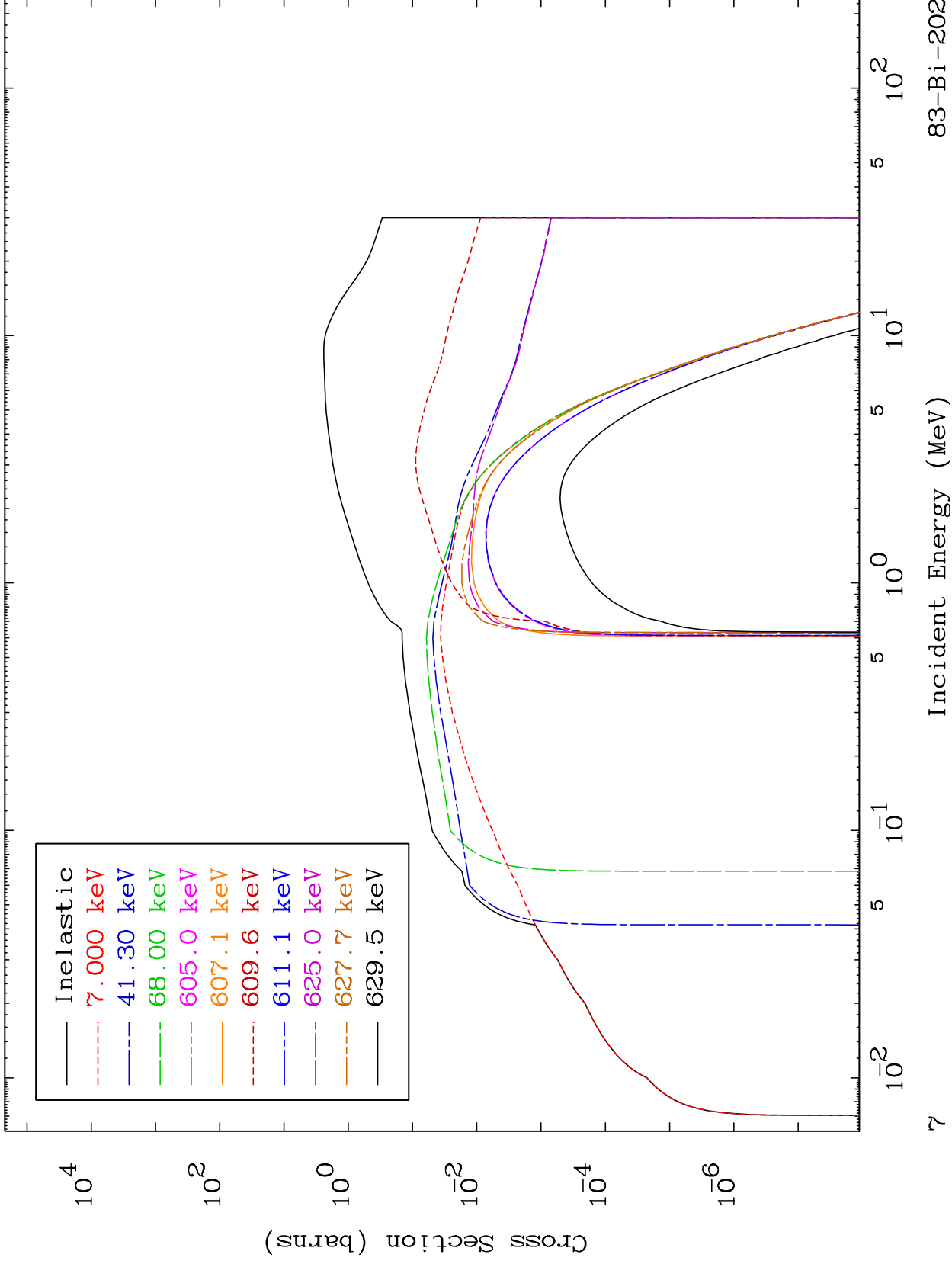
83-Bi-202



MAT 8304

(n,n') Level
293 Kelvin Cross Sections

83-Bi-202

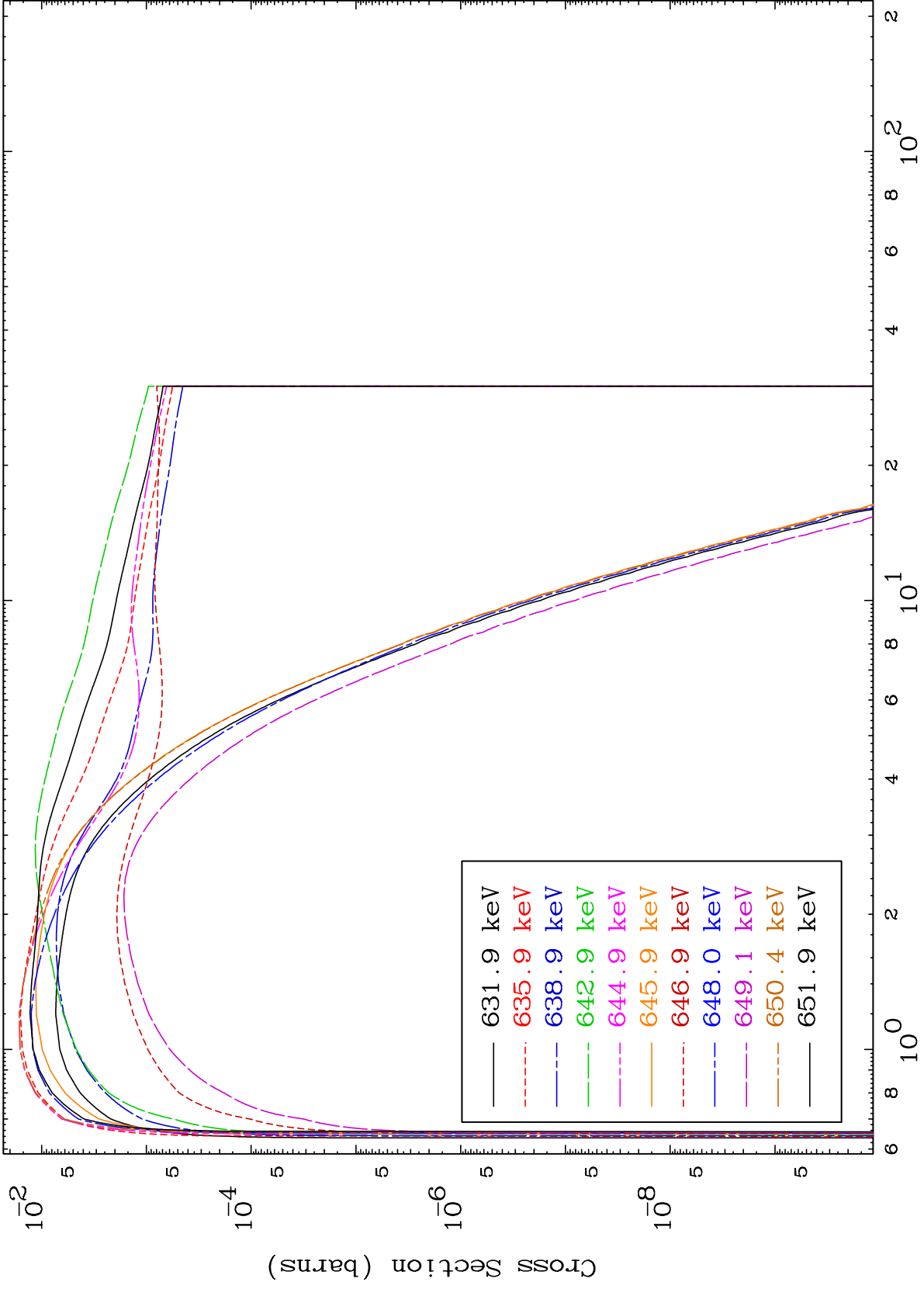


83-Bi-202

MAT 8304

(n,n') Level
293 Kelvin Cross Sections

83-Bi-202



8

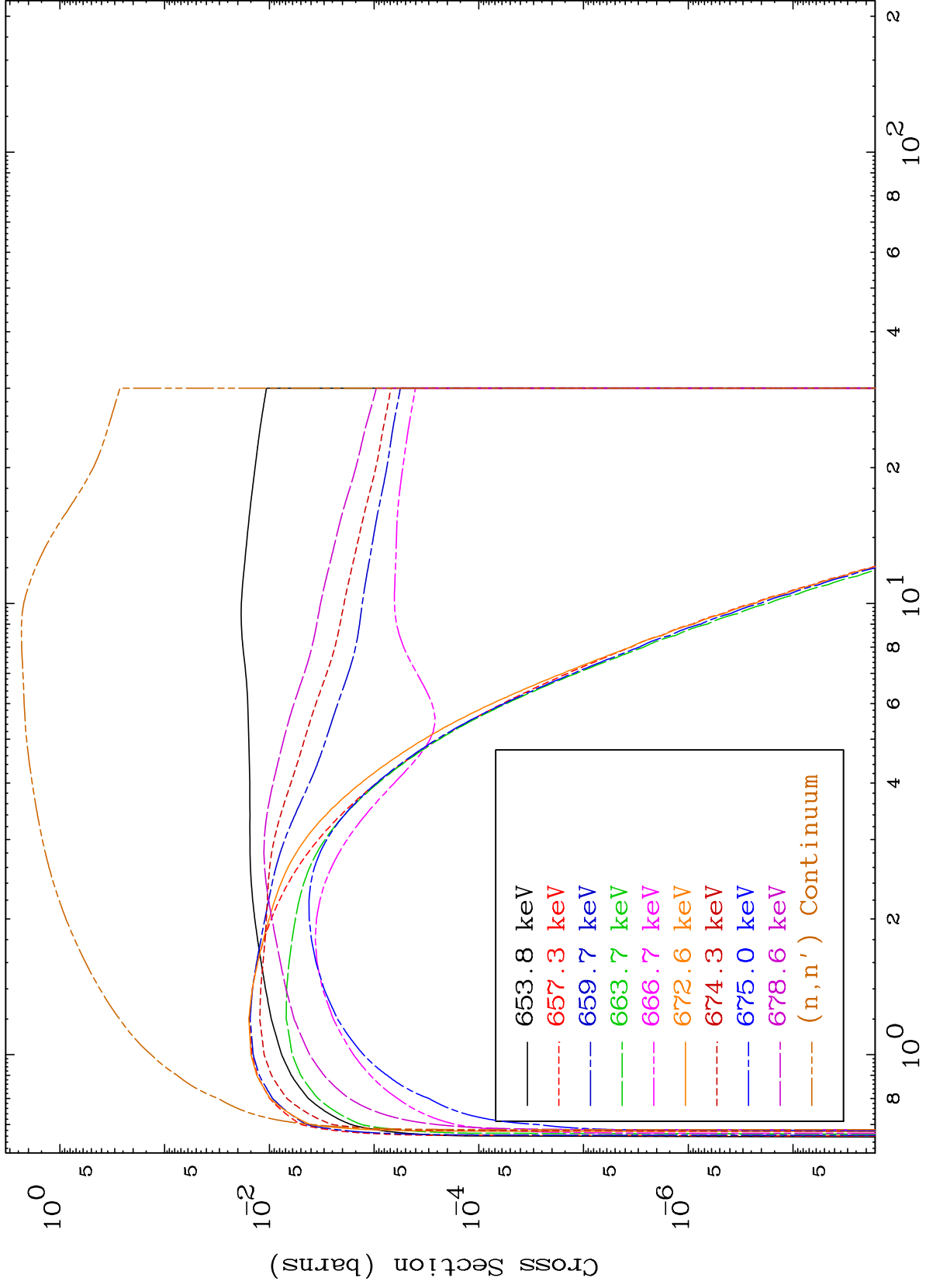
Incident Energy (MeV)

83-Bi-202

MAT 8304

(n,n') Level
293 Kelvin Cross Sections

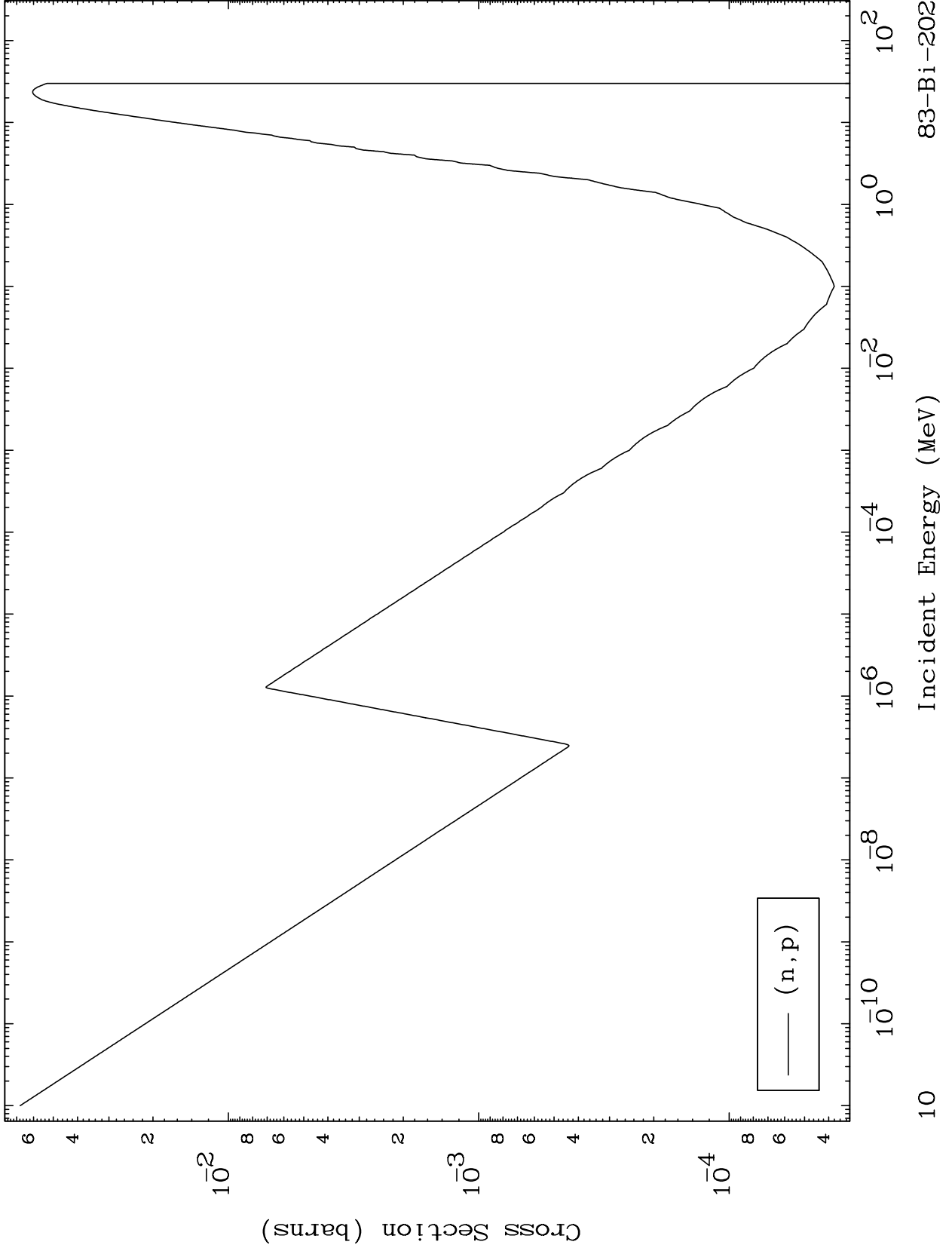
83-Bi-202



MAT 8304

(n,p) Levels
293 Kelvin Cross Sections

83-Bi-202

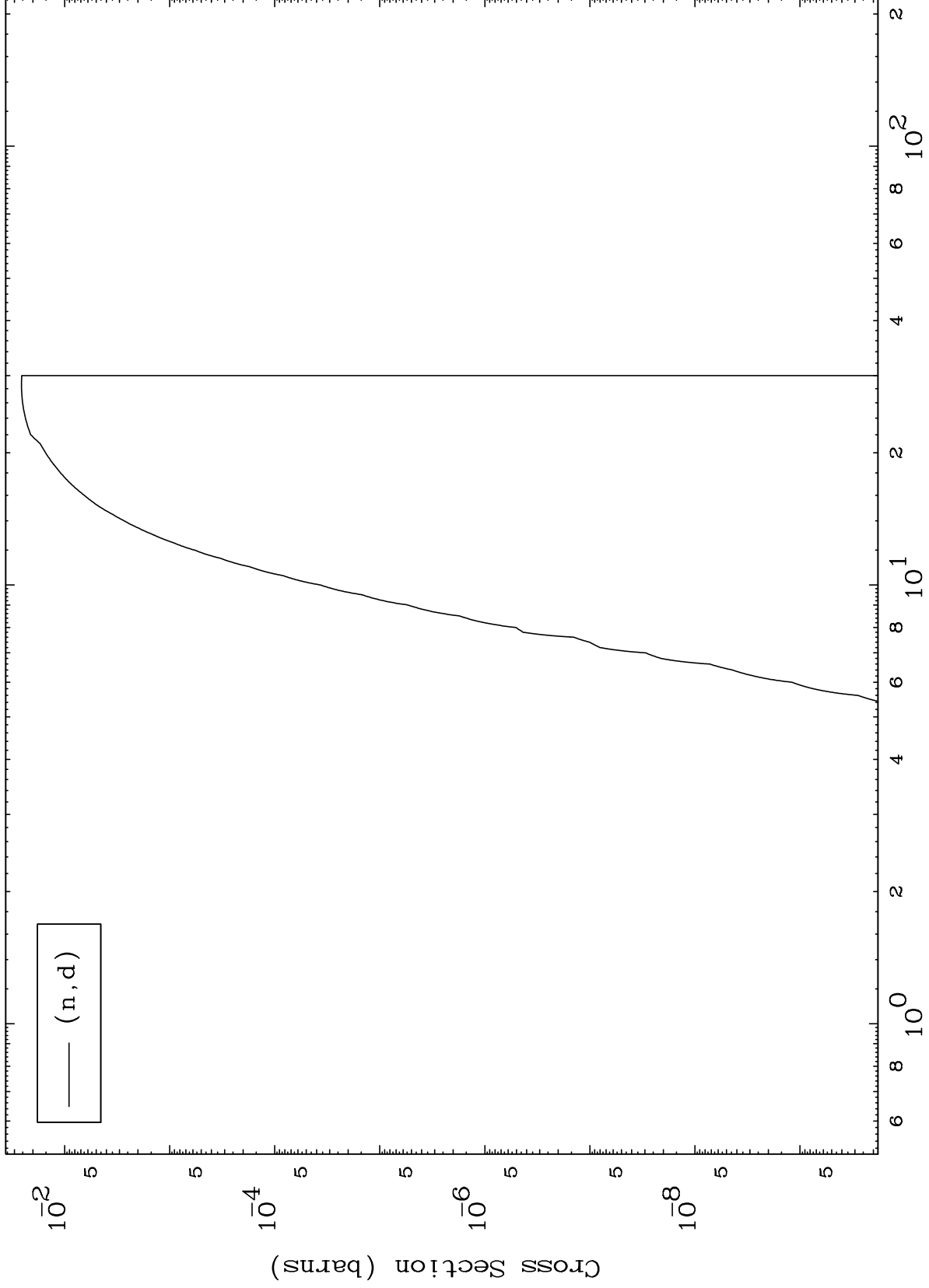


10

MAT 8304

(n,d) Levels
293 Kelvin Cross Sections

83-Bi-202

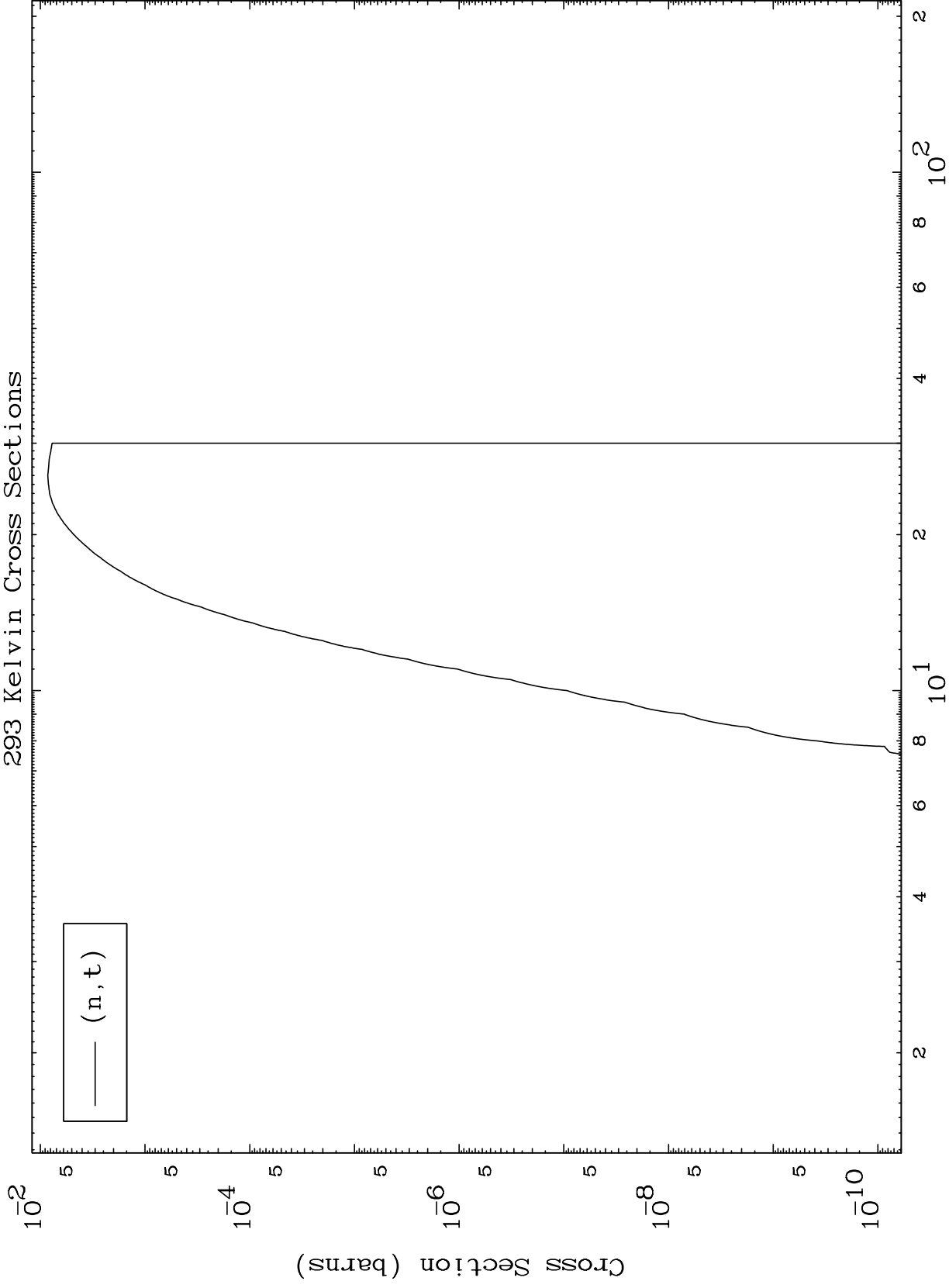


— (n,d)

MAT 8304

(n,t) Levels
293 Kelvin Cross Sections

83-Bi-202



12

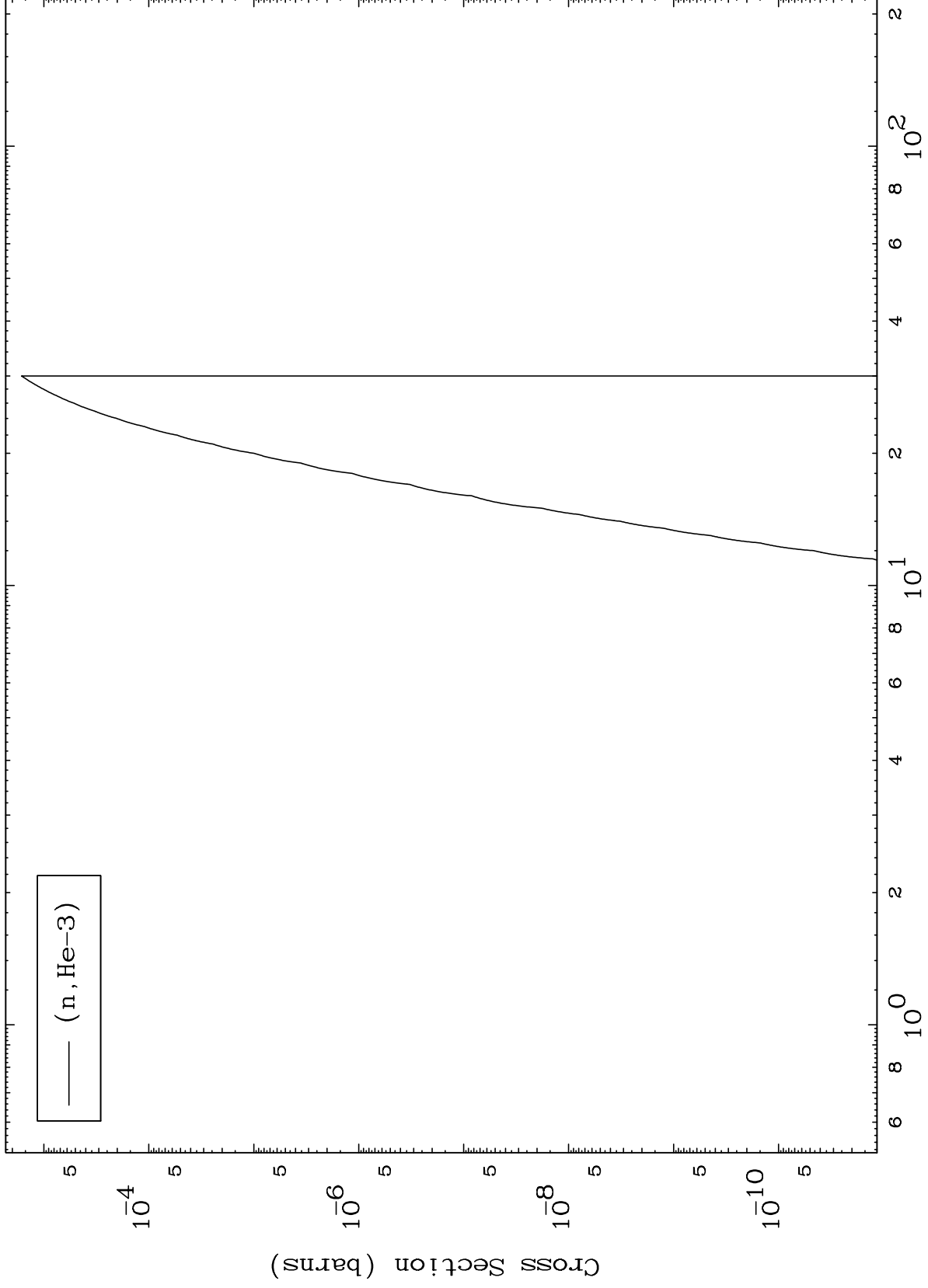
Incident Energy (MeV)

83-Bi-202

MAT 8304

(n,He3) Levels
293 Kelvin Cross Sections

83-Bi-202



13

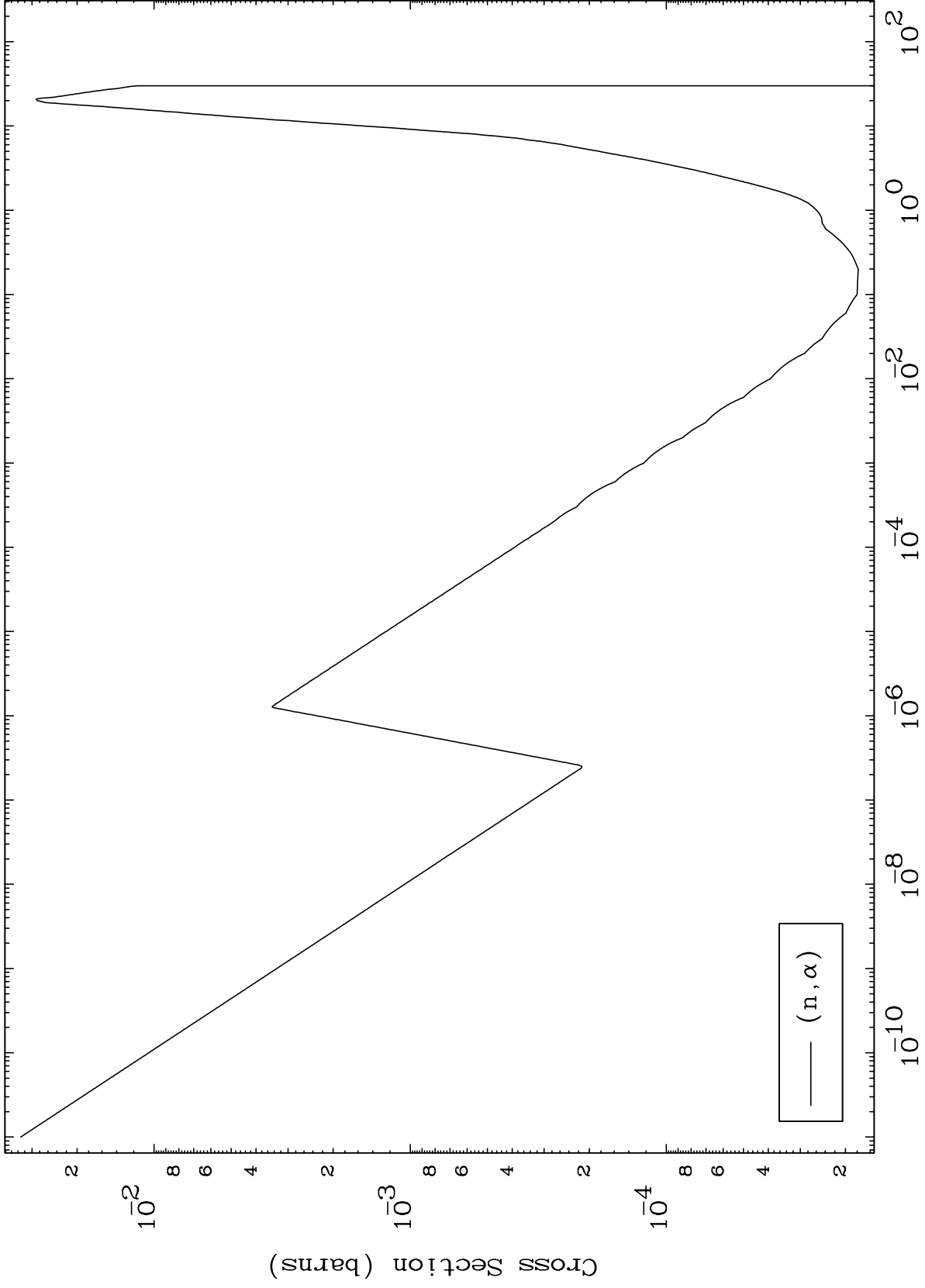
Incident Energy (MeV)

83-Bi-202

MAT 8304

(n,α) Levels
293 Kelvin Cross Sections

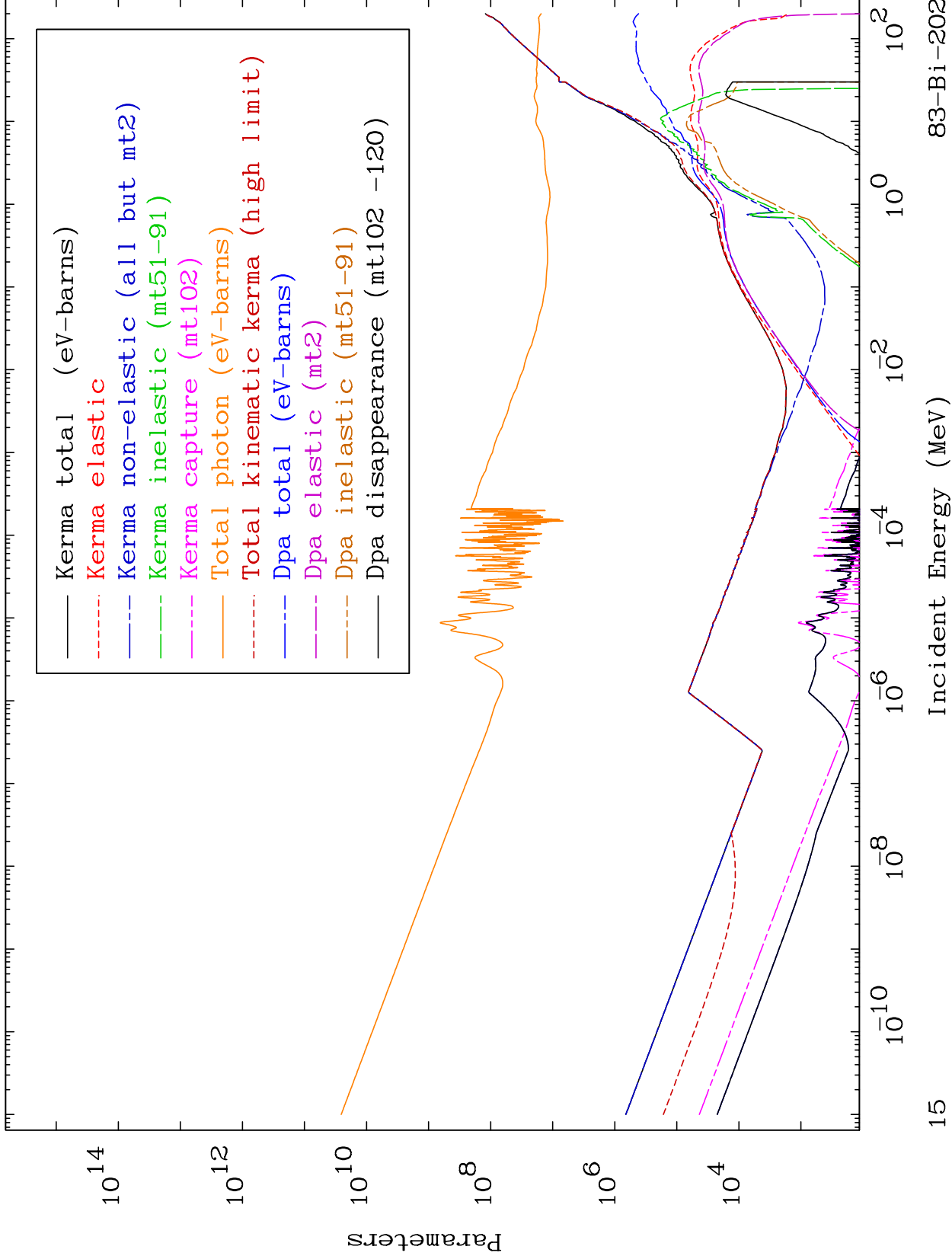
83-Bi-202



14

Incident Energy (MeV)

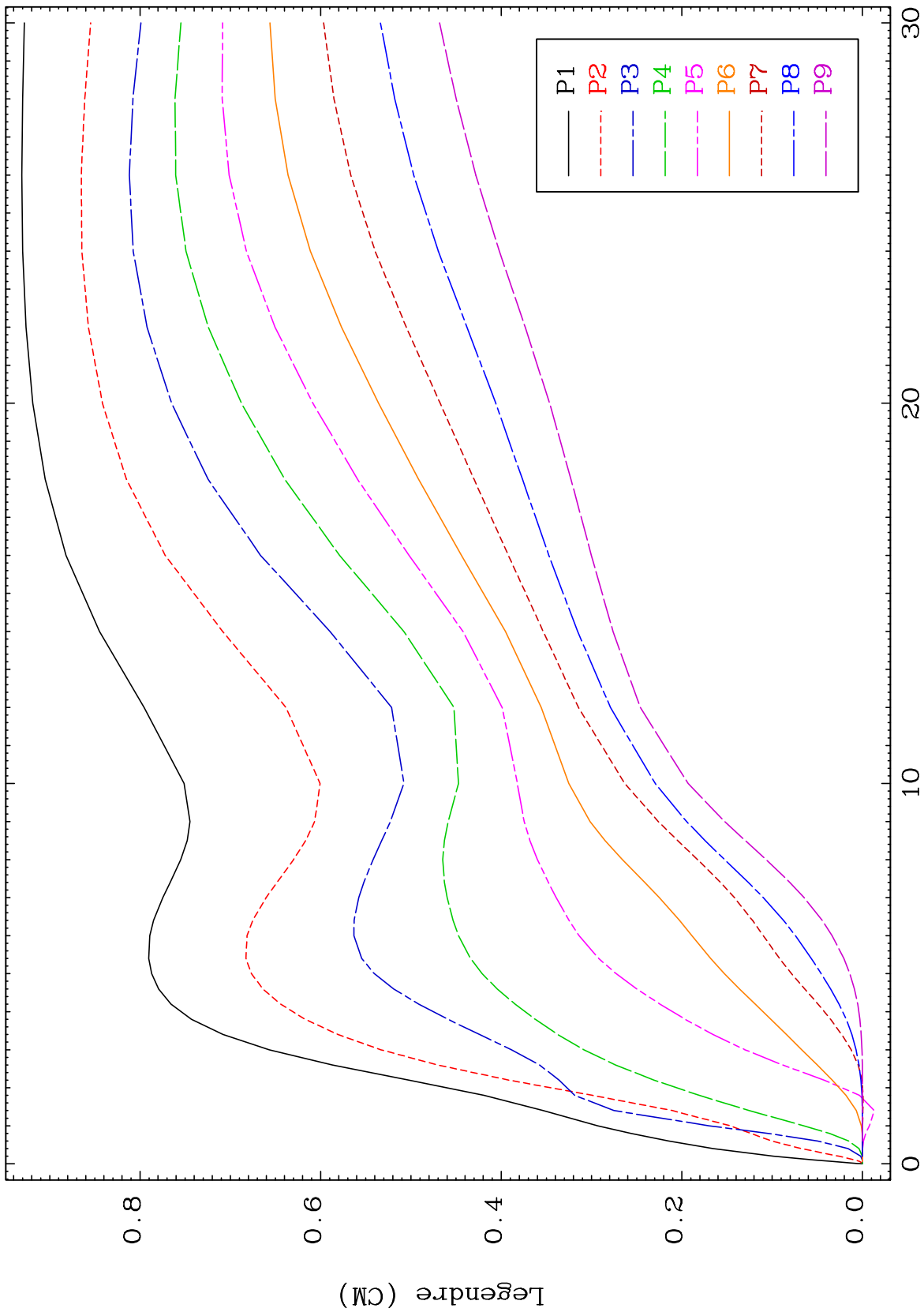
83-Bi-202



MAT 8304

83-Bi-202

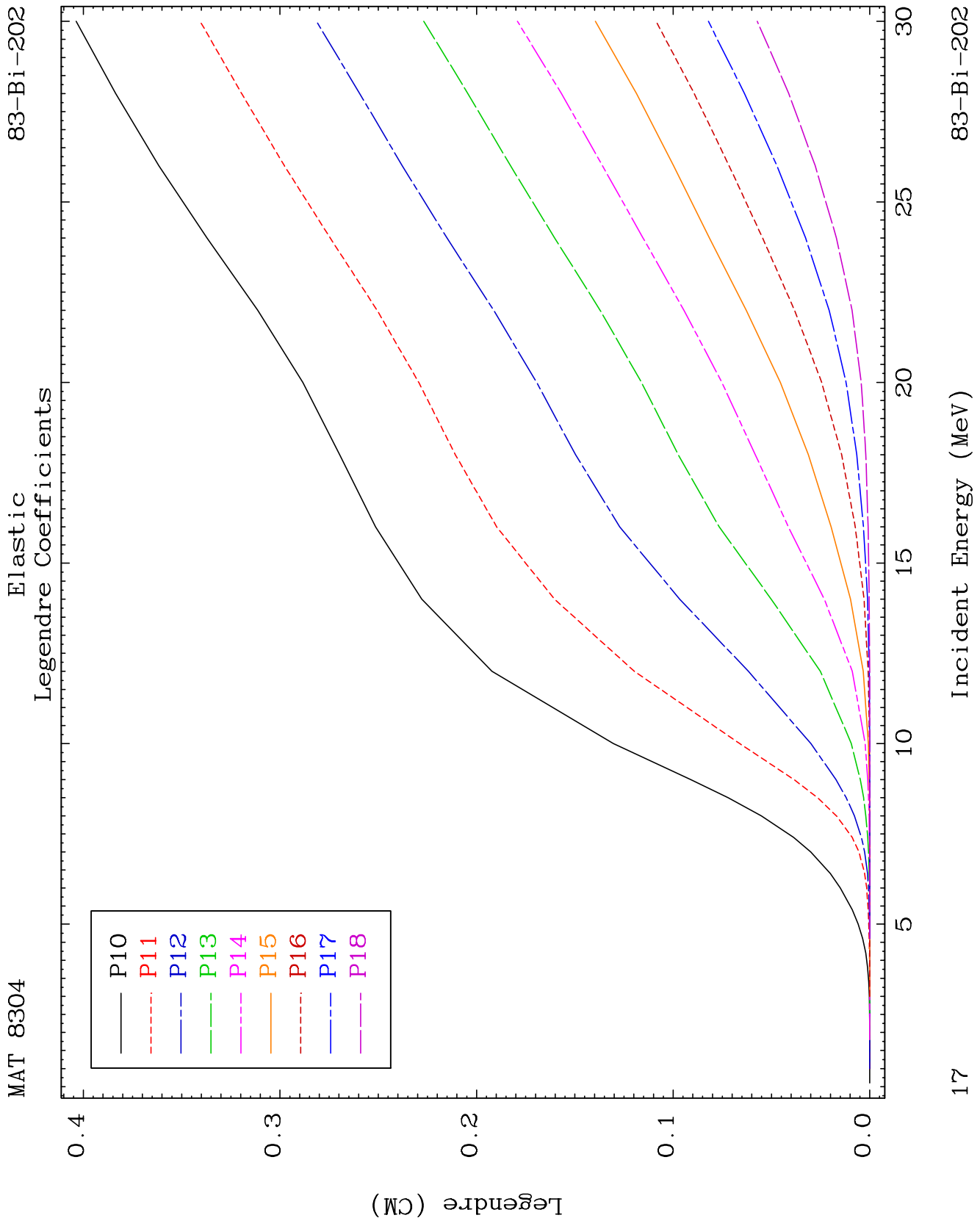
Elastic Legendre Coefficients



16

Incident Energy (MeV)

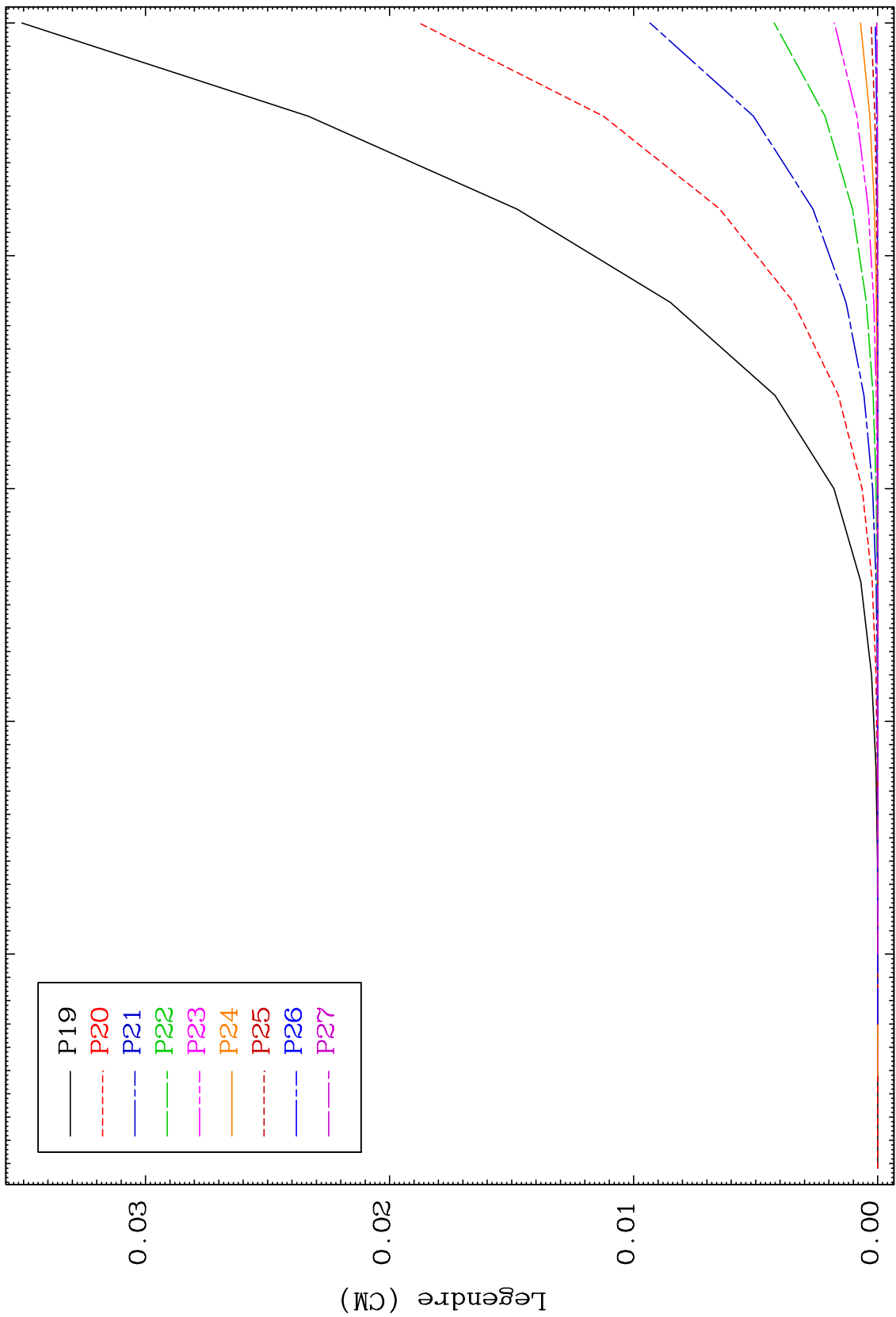
83-Bi-202



MAT 8304

Elastic Legendre Coefficients

83-Bi-202



18

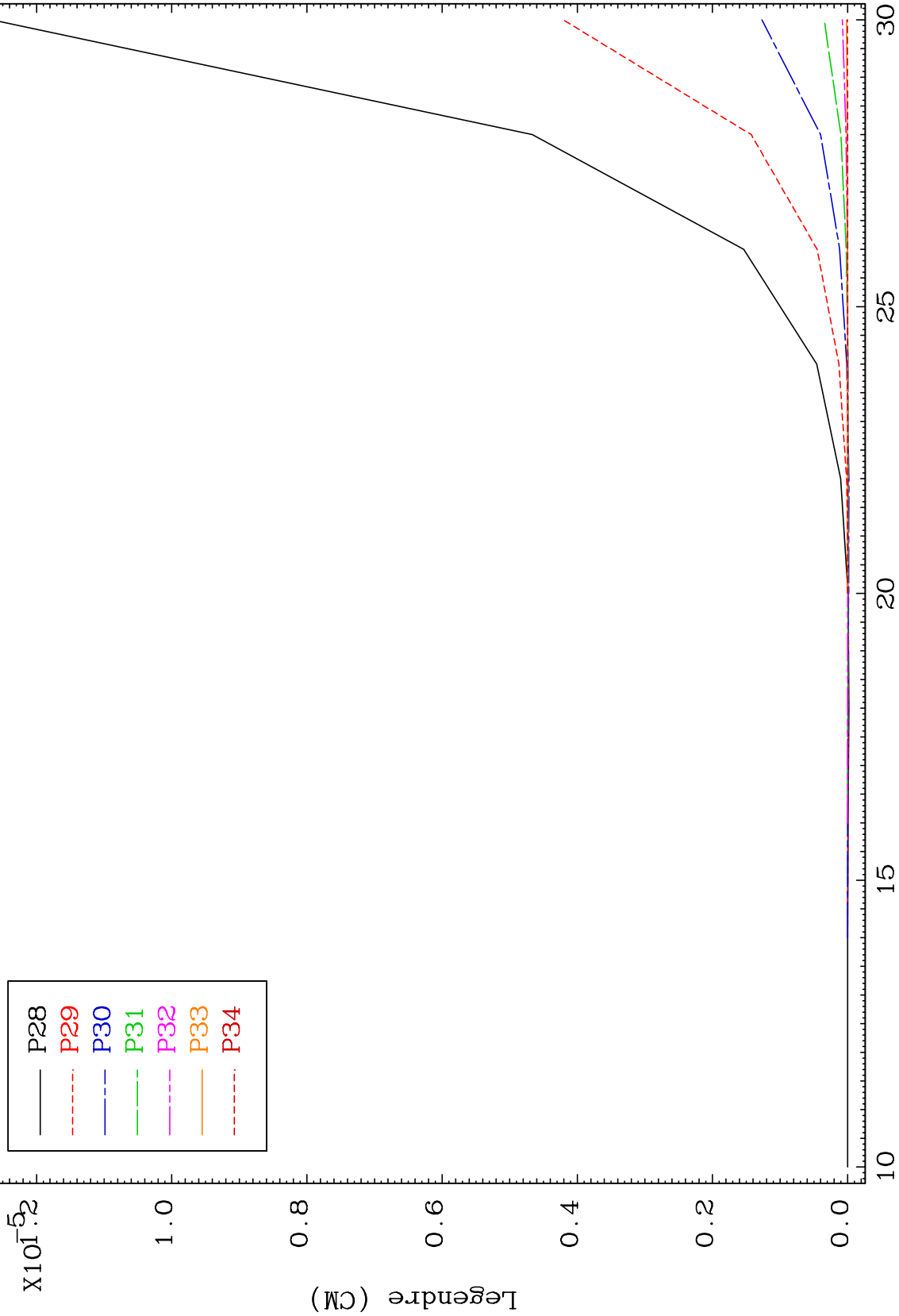
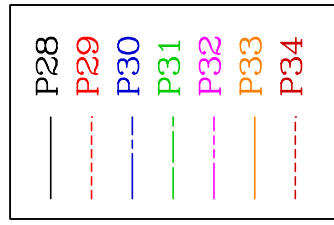
Incident Energy (MeV)

83-Bi-202

MAT 8304

Elastic
Legendre Coefficients

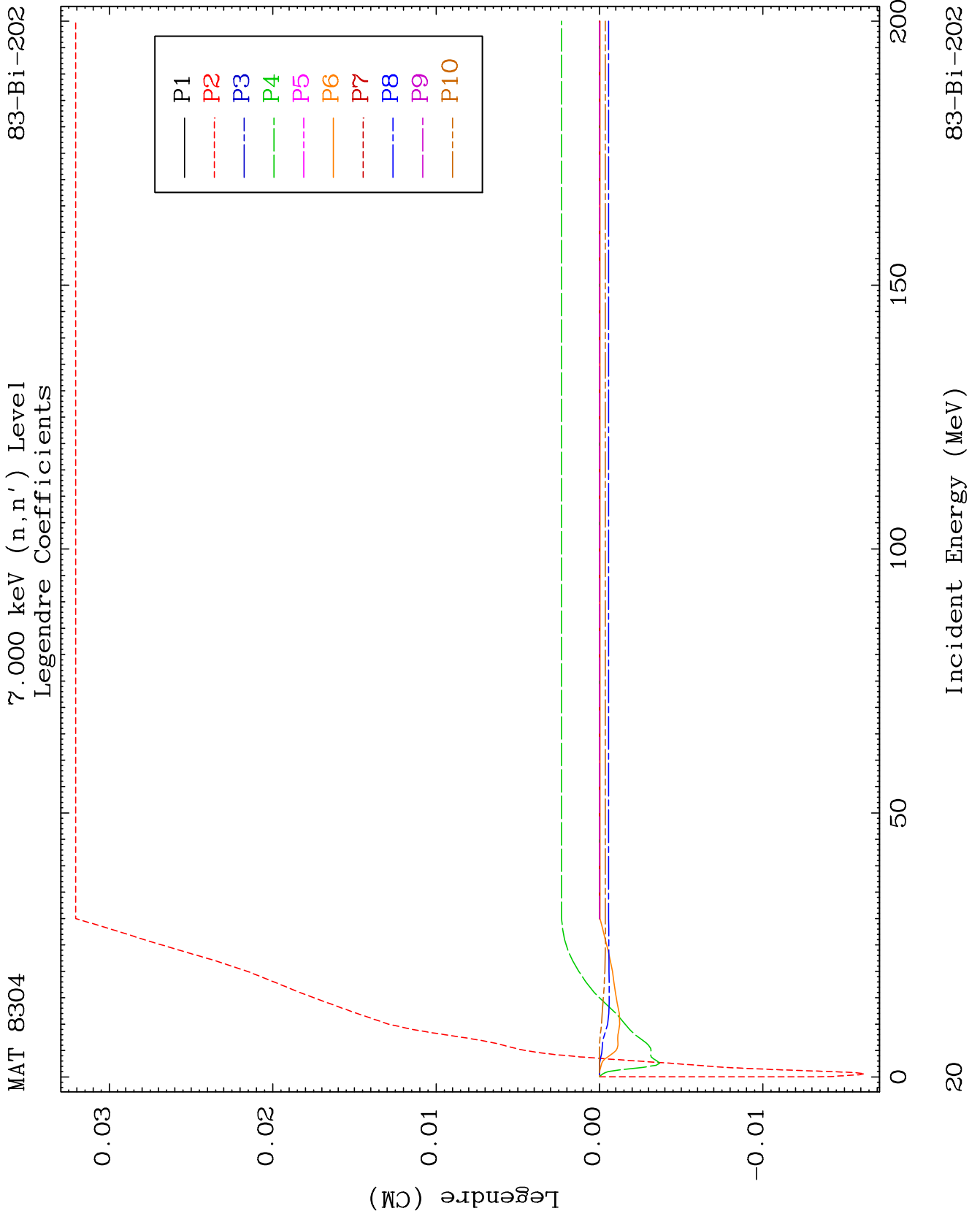
83-Bi-202



19

Incident Energy (MeV)

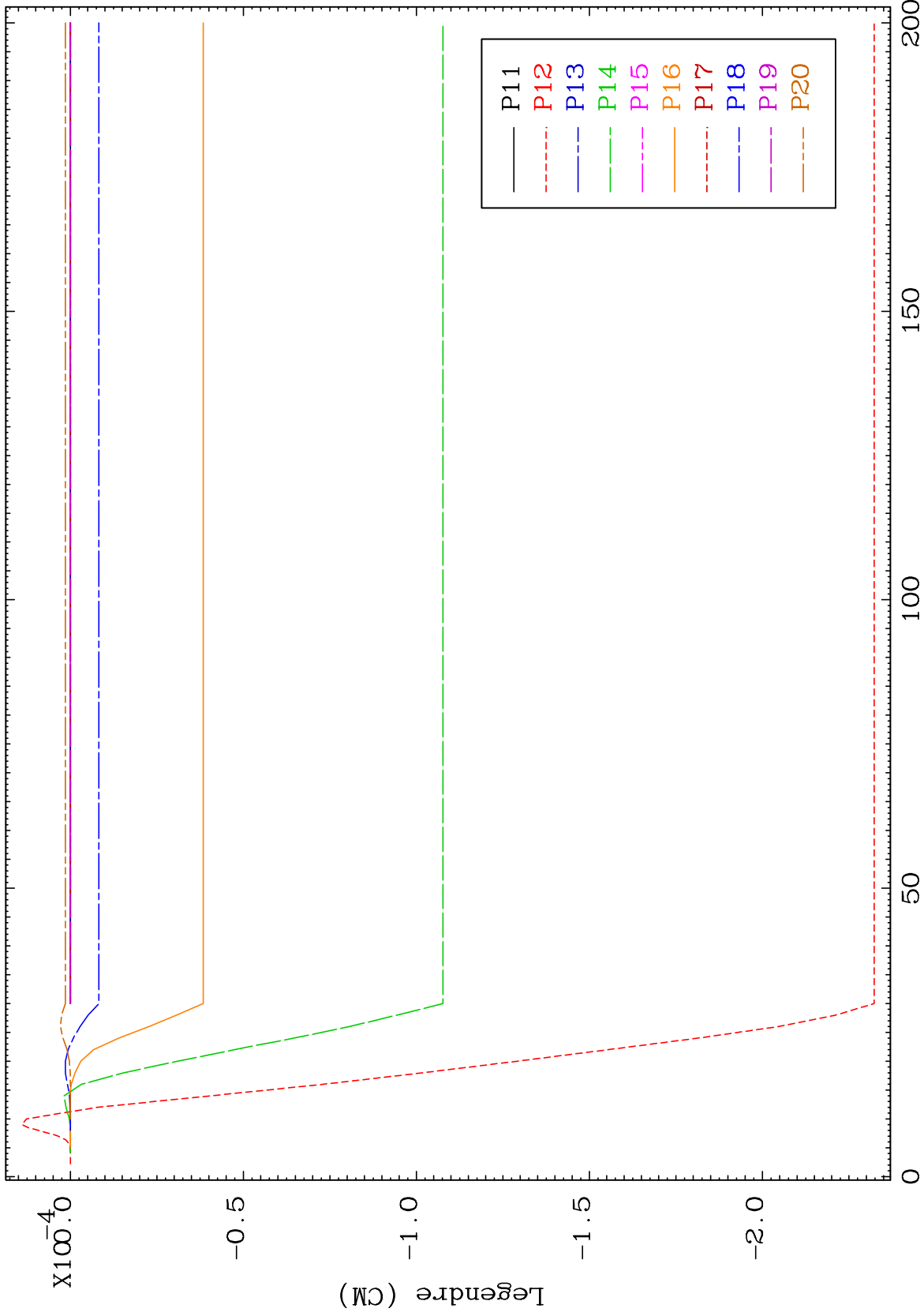
83-Bi-202



MAT 8304

7.000 keV (n,n') Level
Legendre Coefficients

83-Bi-202



21

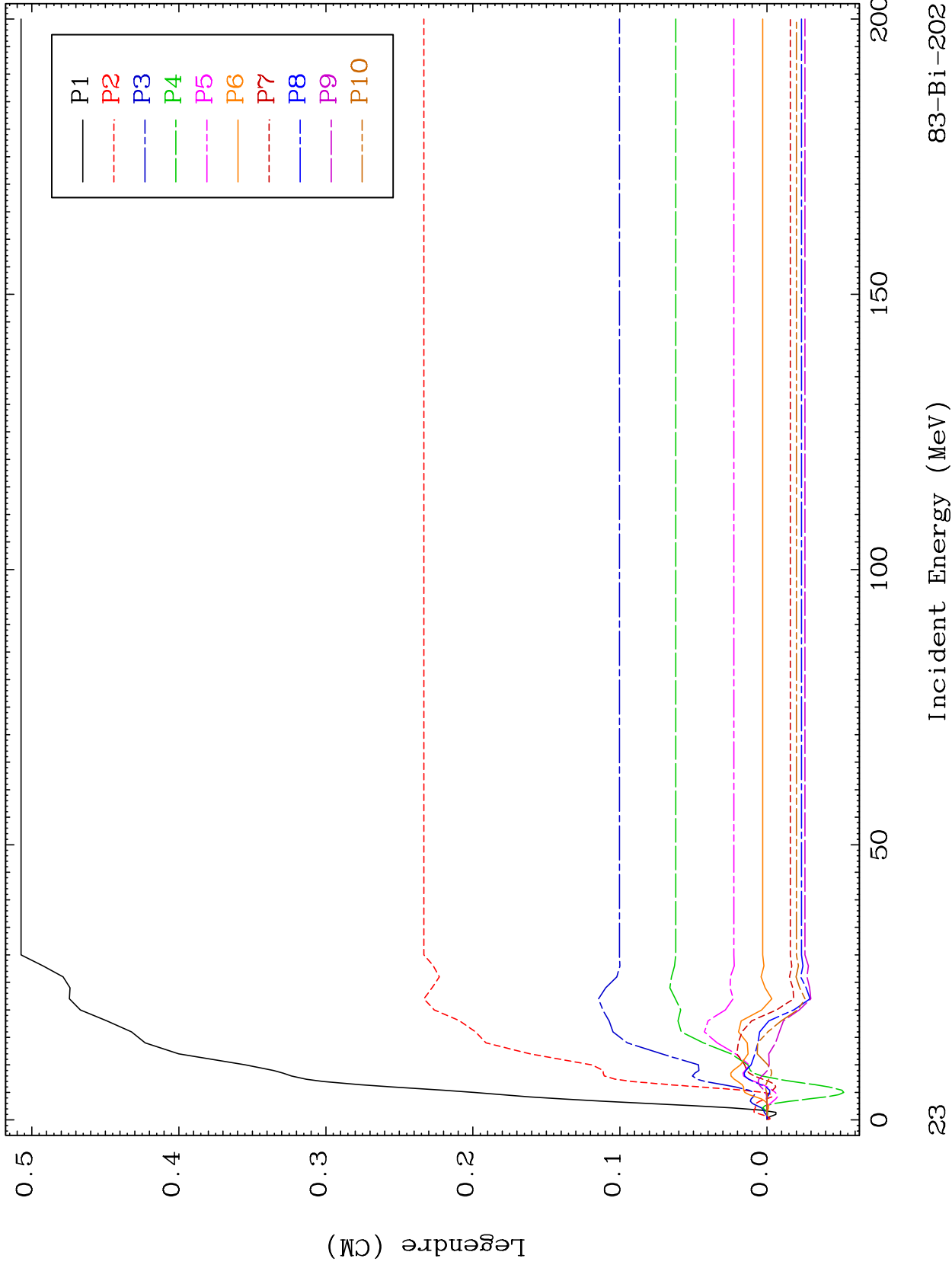
Incident Energy (MeV)

83-Bi-202

MAT 8304

41.30 keV (n,n') Level
Legendre Coefficients

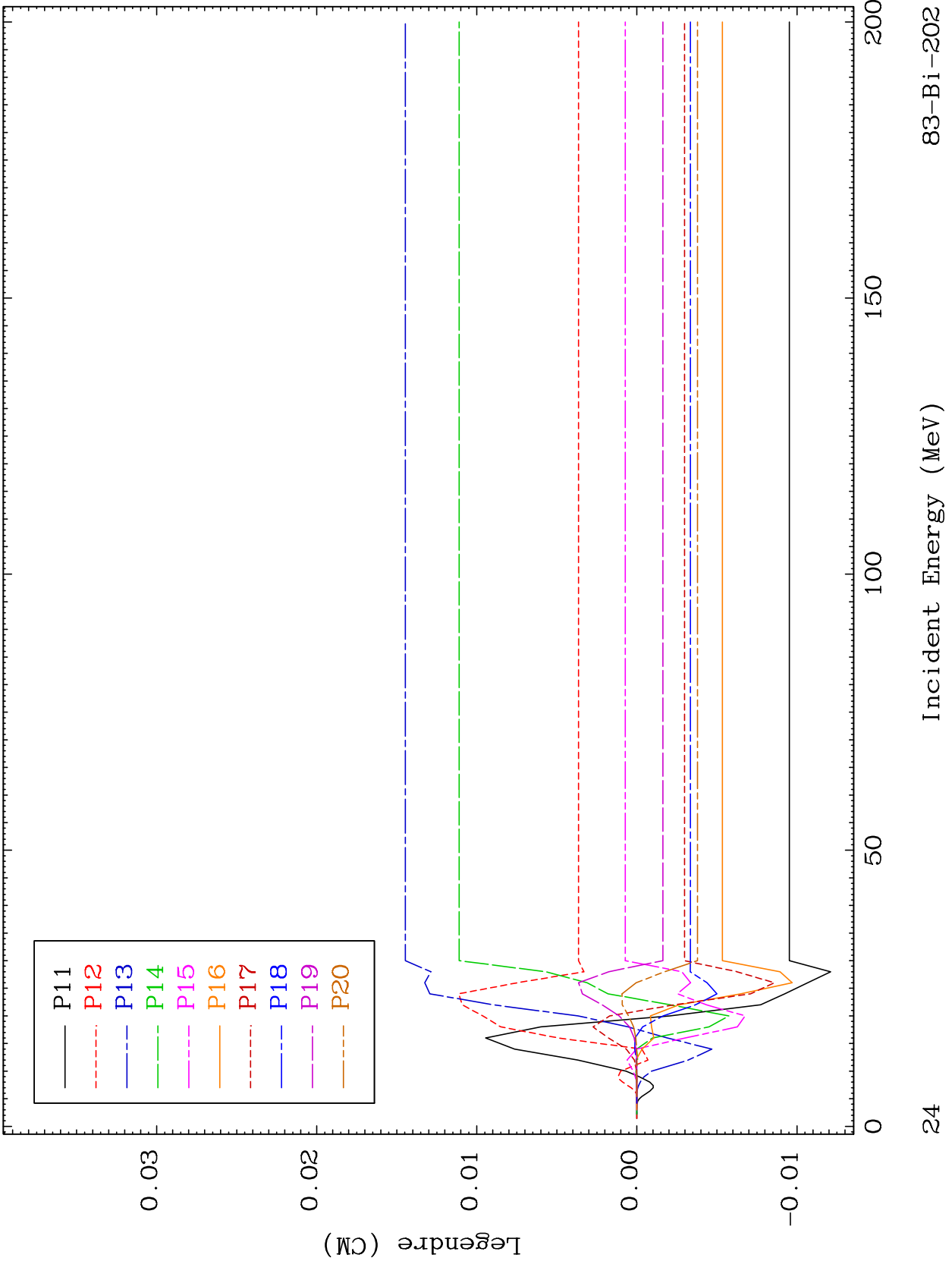
83-Bi-202



MAT 8304

41.30 keV (n,n') Level
Legendre Coefficients

83-Bi-202



24

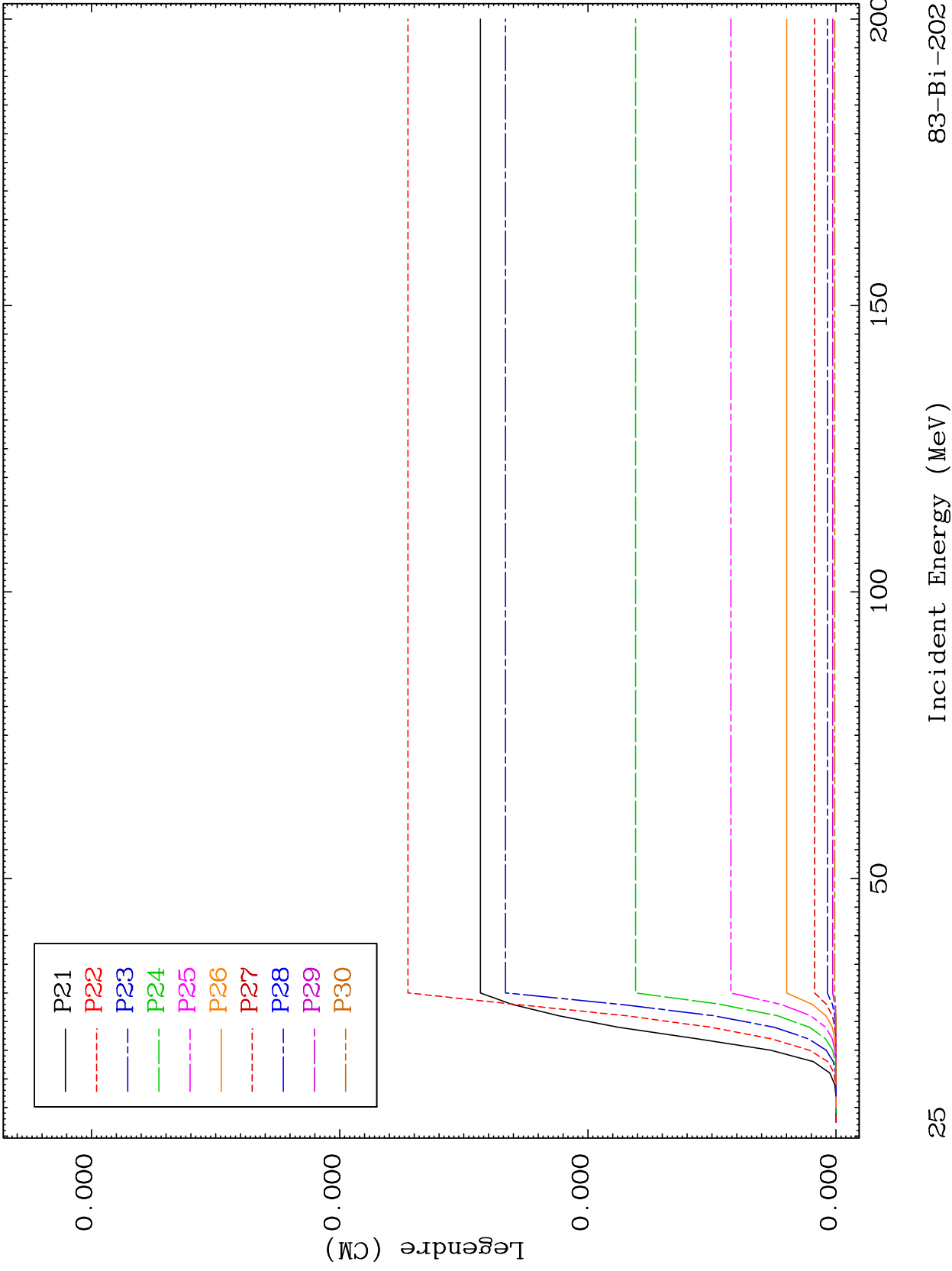
Incident Energy (MeV)

83-Bi-202

MAT 8304

41.30 keV (n,n') Level
Legendre Coefficients

83-Bi-202



83-Bi-202

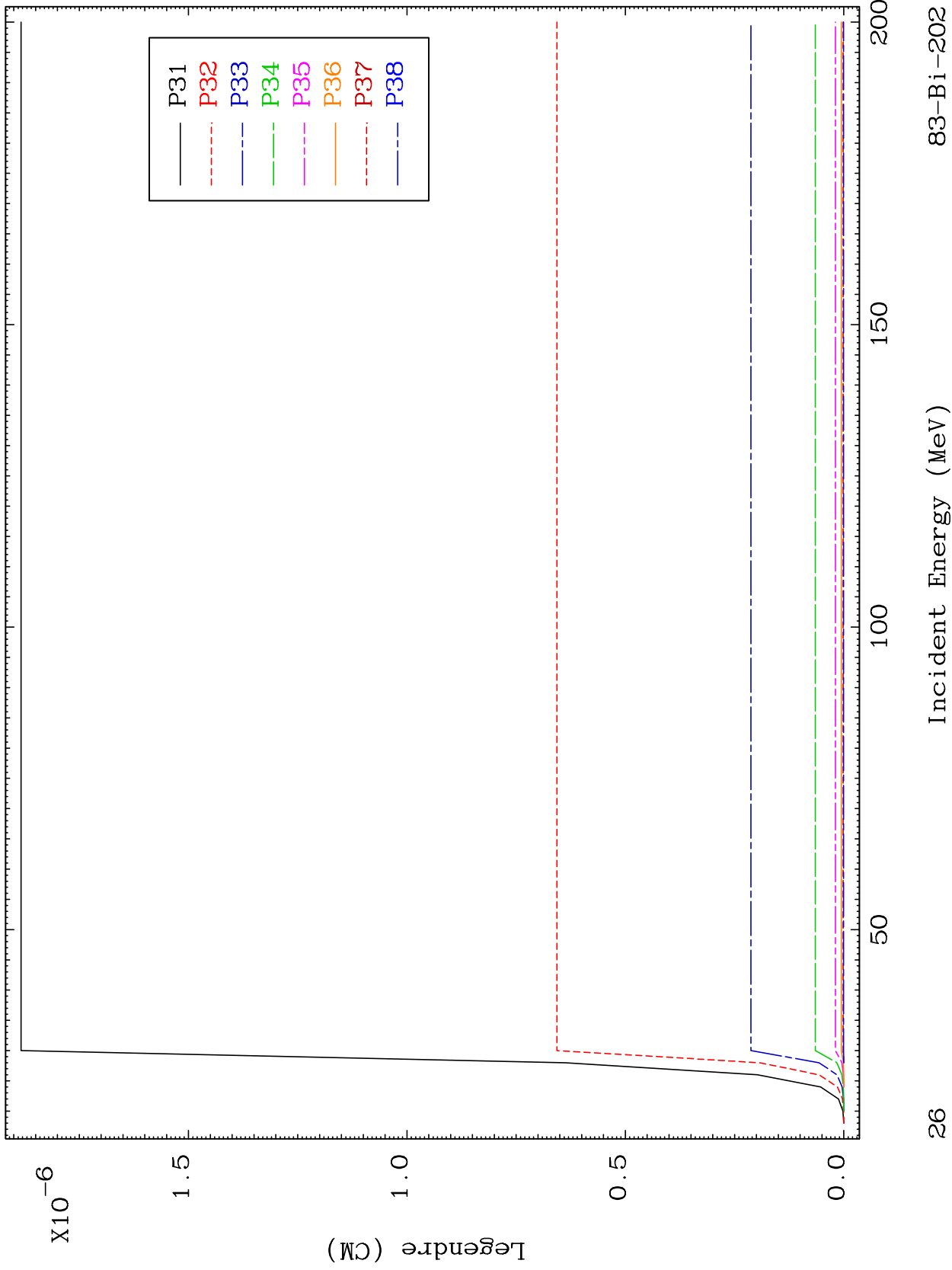
Incident Energy (MeV)

25

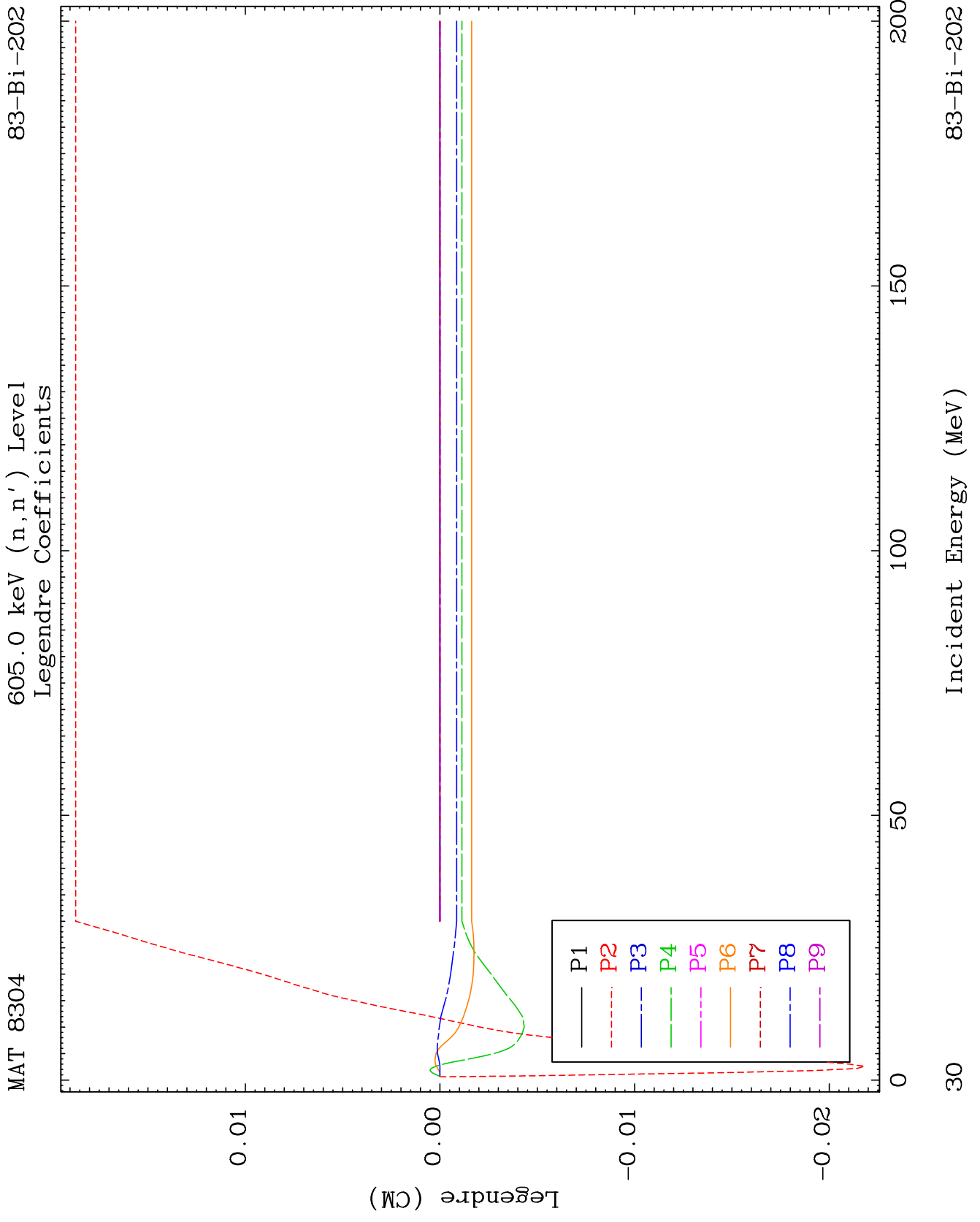
MAT 8304

41.30 keV (n,n') Level
Legendre Coefficients

83-Bi-202



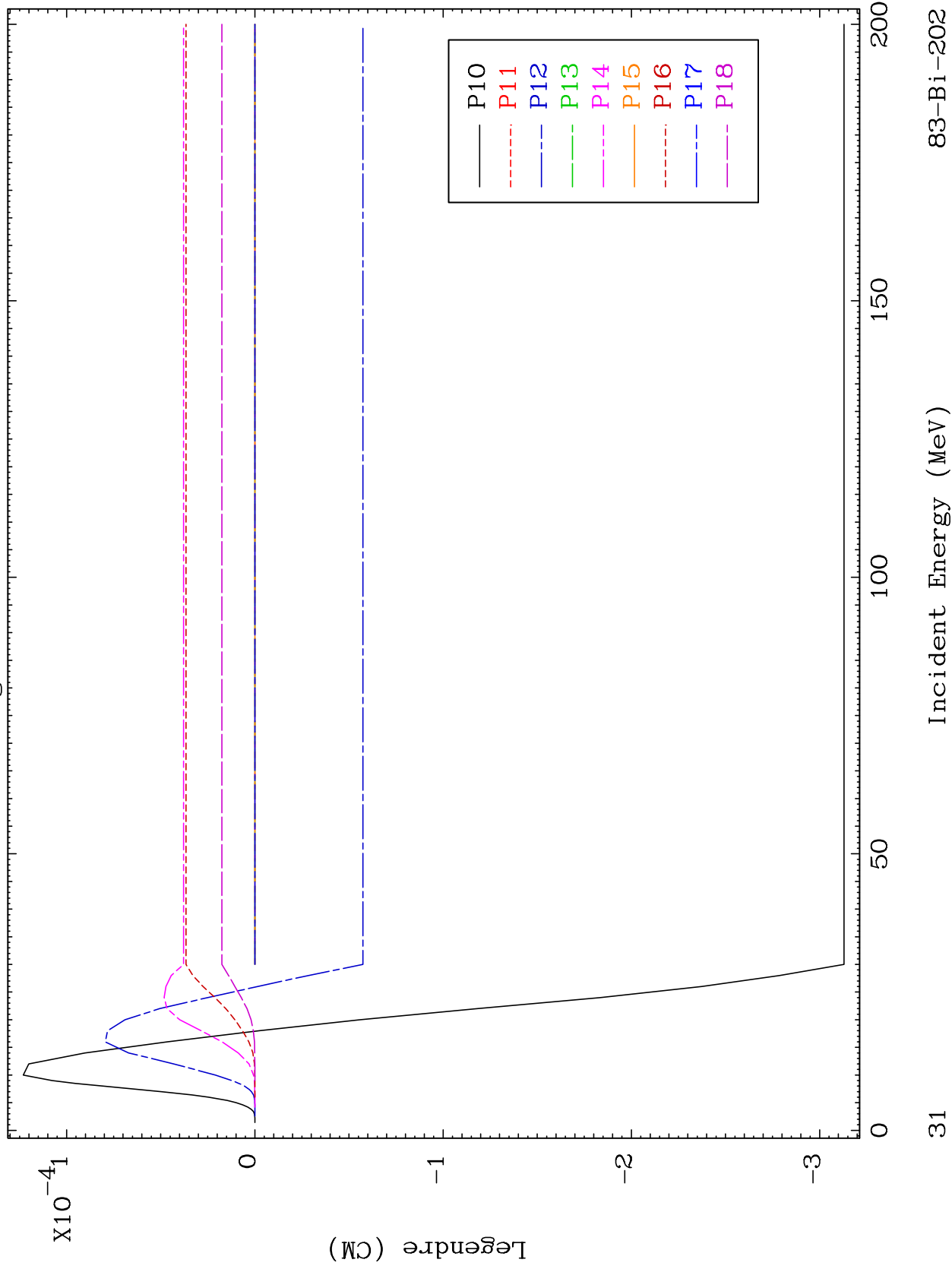
26



MAT 8304

605.0 keV (n,n') Level
Legendre Coefficients

83-Bi-202



31

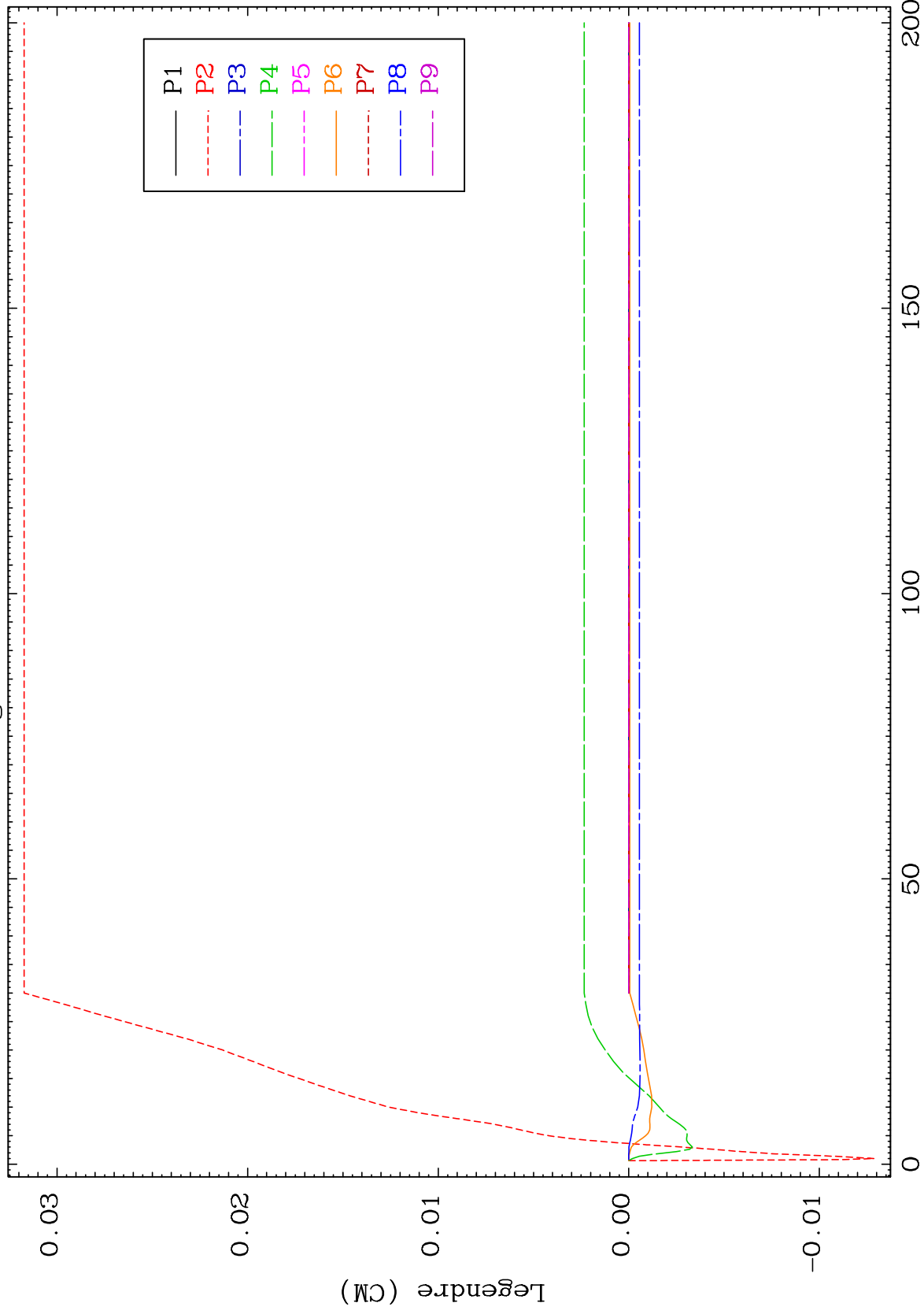
Incident Energy (MeV)

83-Bi-202

MAT 8304

607.1 keV (n,n') Level
Legendre Coefficients

83-Bi-202



33

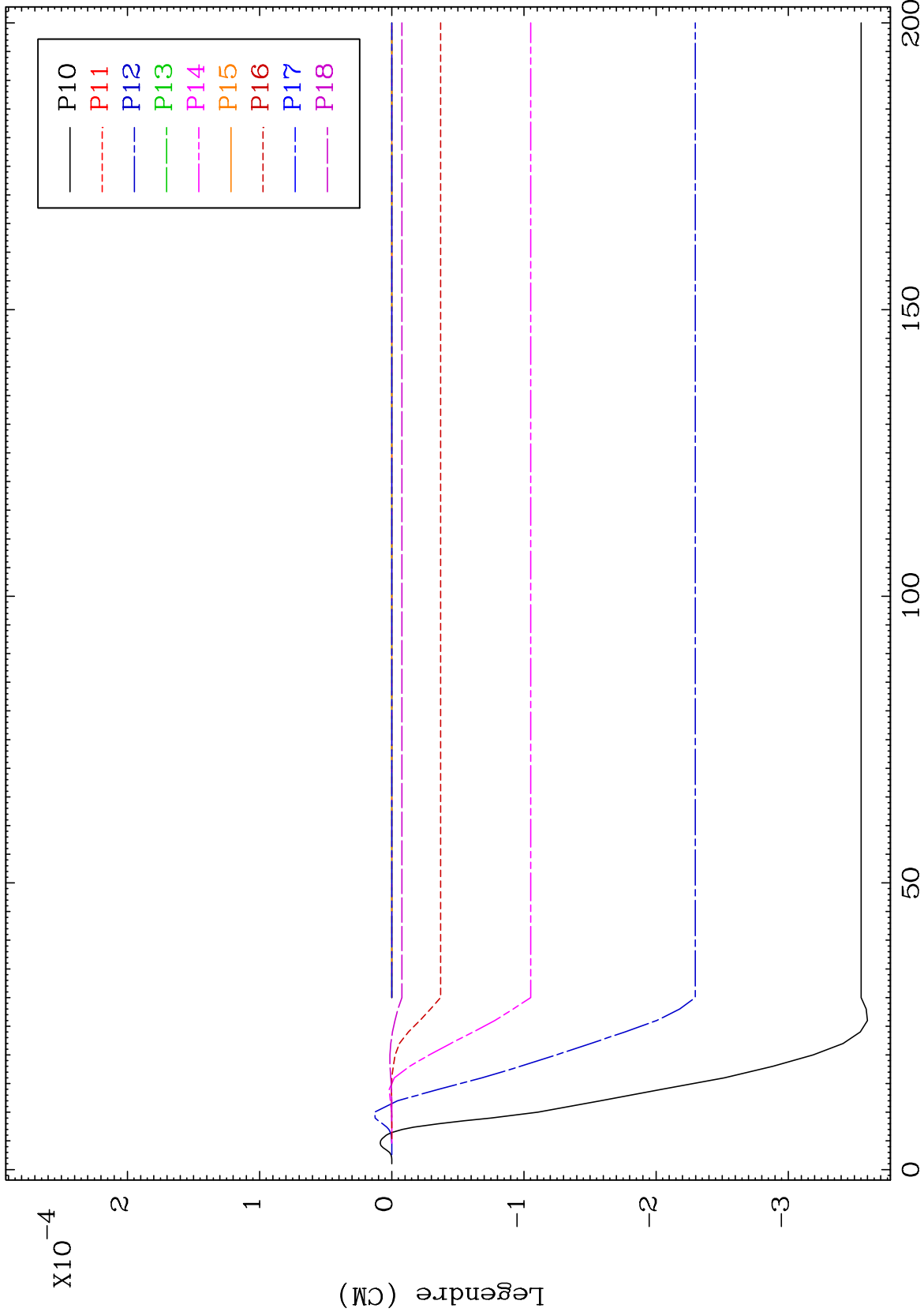
Incident Energy (MeV)

83-Bi-202

MAT 8304

607.1 keV (n,n') Level
Legendre Coefficients

83-Bi-202



34

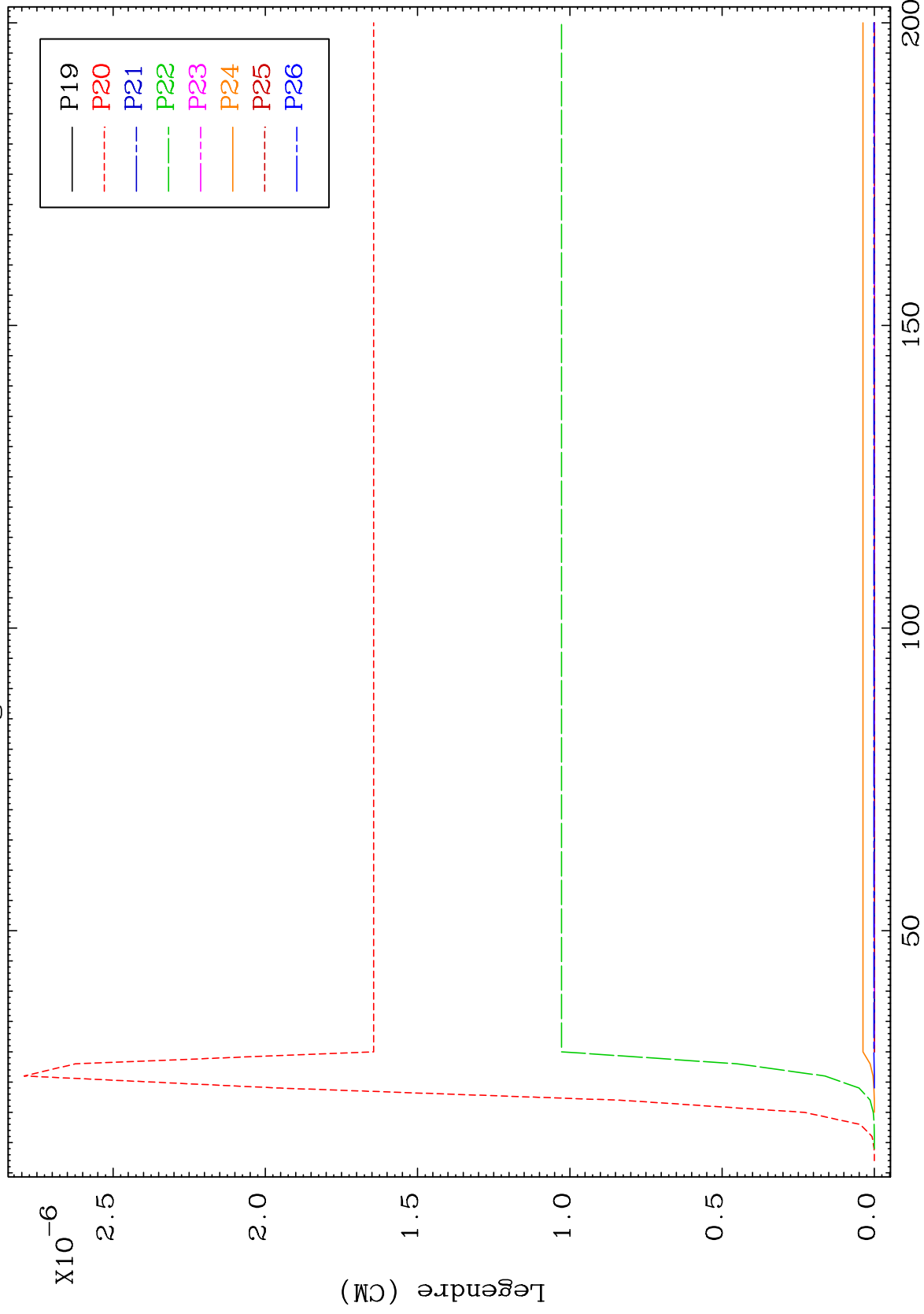
Incident Energy (MeV)

83-Bi-202

MAT 8304

607.1 keV (n,n') Level
Legendre Coefficients

83-Bi-202



35

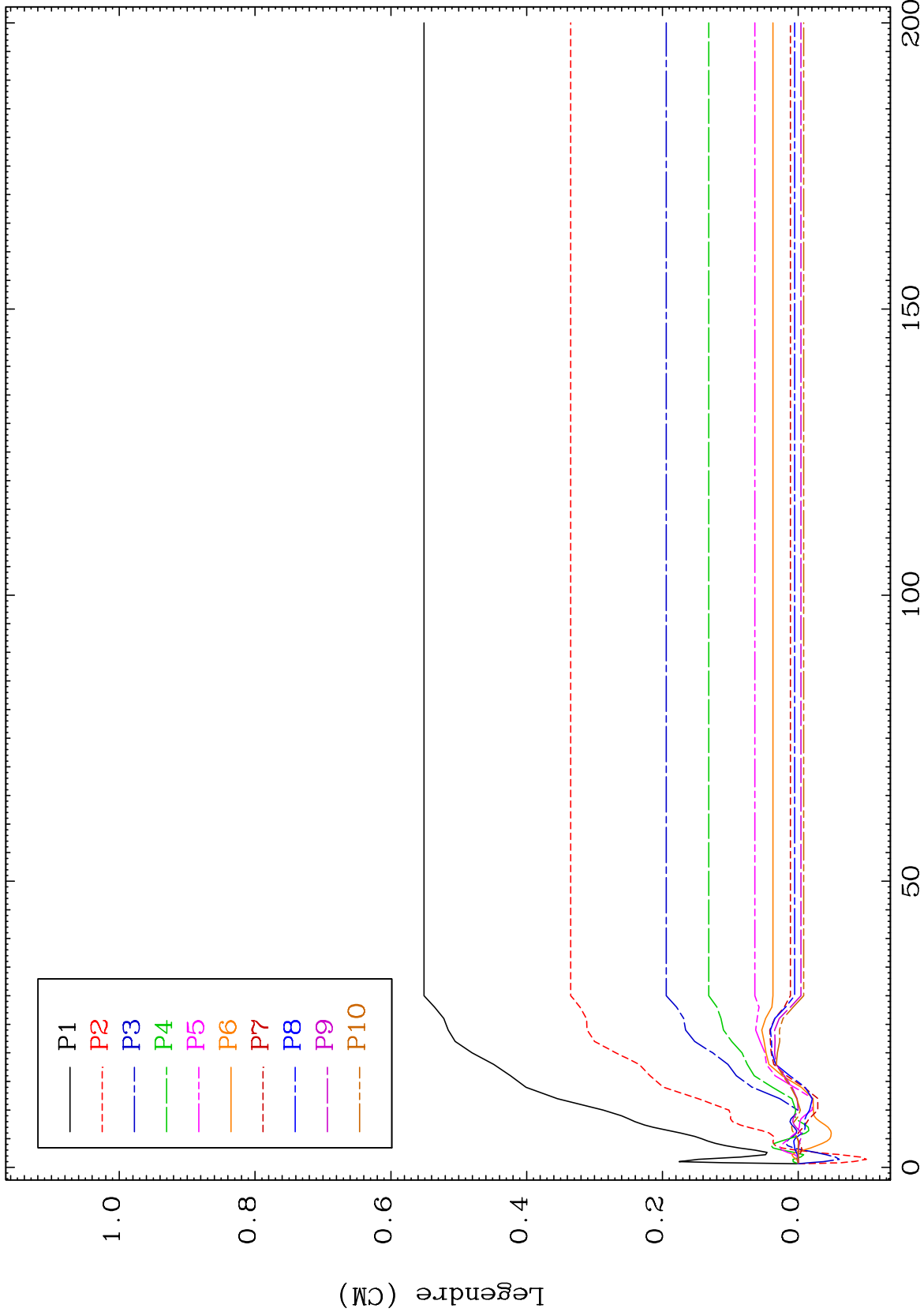
Incident Energy (MeV)

83-Bi-202

MAT 8304

609.6 keV (n,n') Level
Legendre Coefficients

83-Bi-202



83-Bi-202

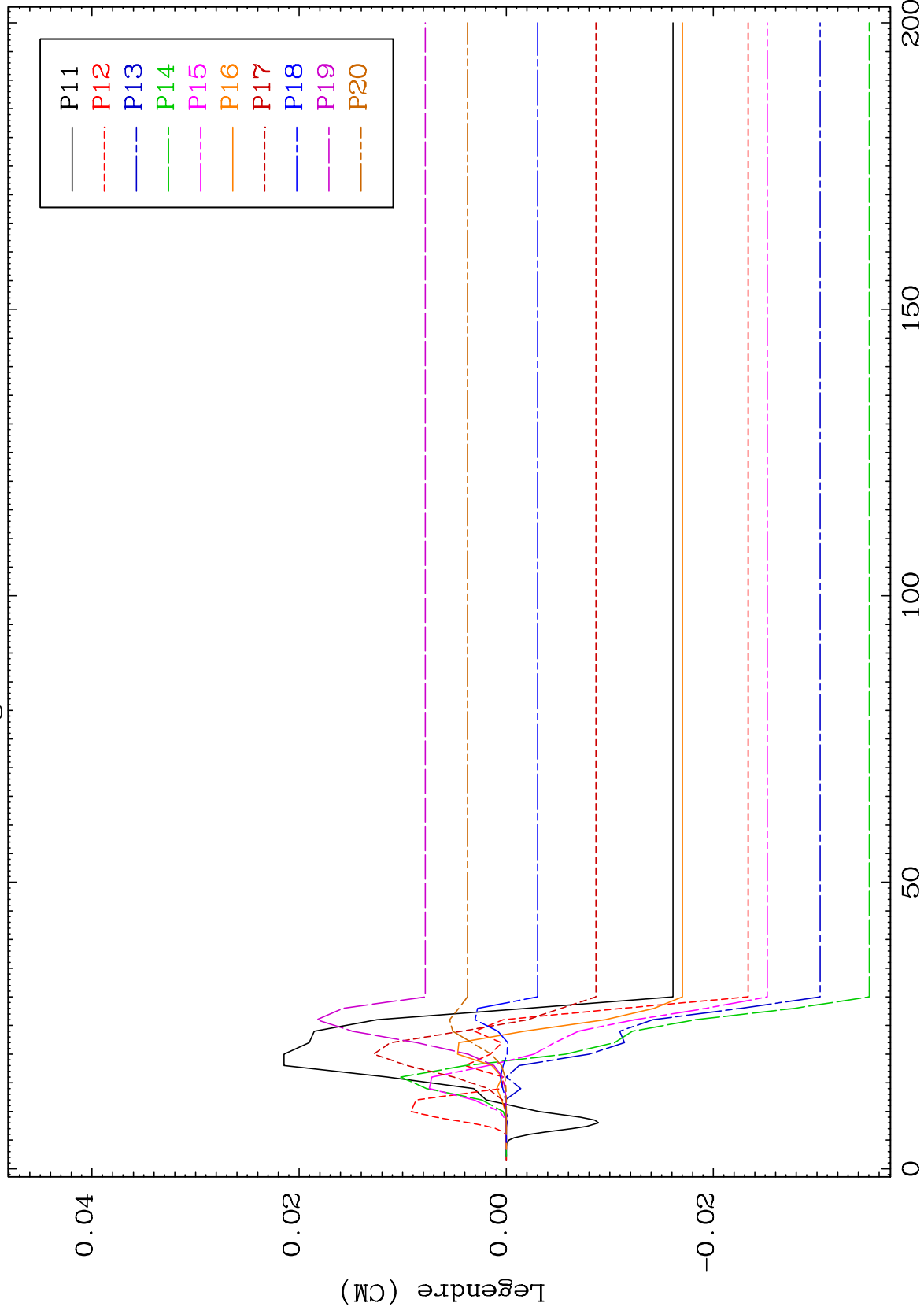
Incident Energy (MeV)

36

MAT 8304

609.6 keV (n,n') Level
Legendre Coefficients

83-Bi-202



37

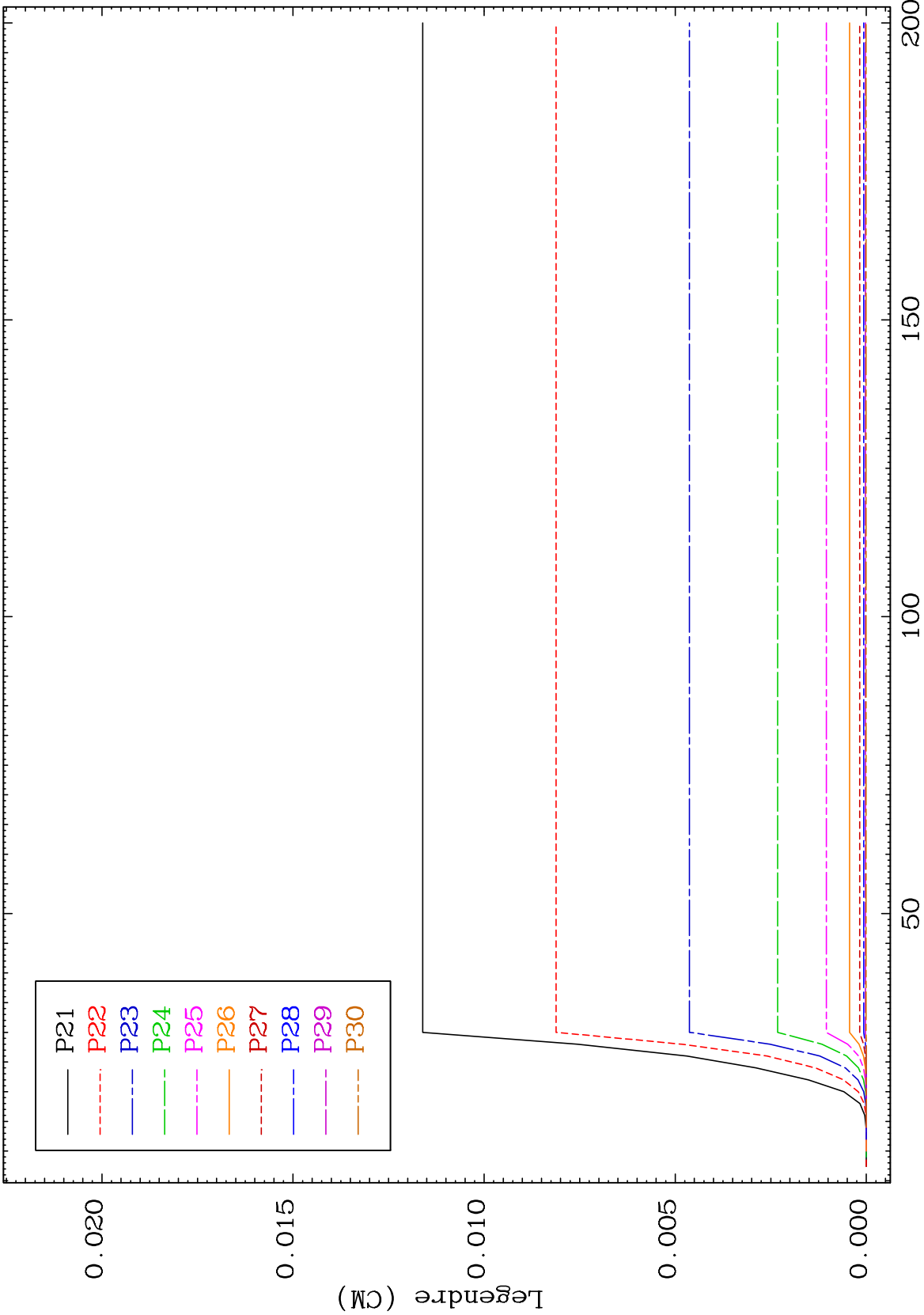
Incident Energy (MeV)

83-Bi-202

MAT 8304

609.6 keV (n,n') Level
Legendre Coefficients

83-Bi-202



38

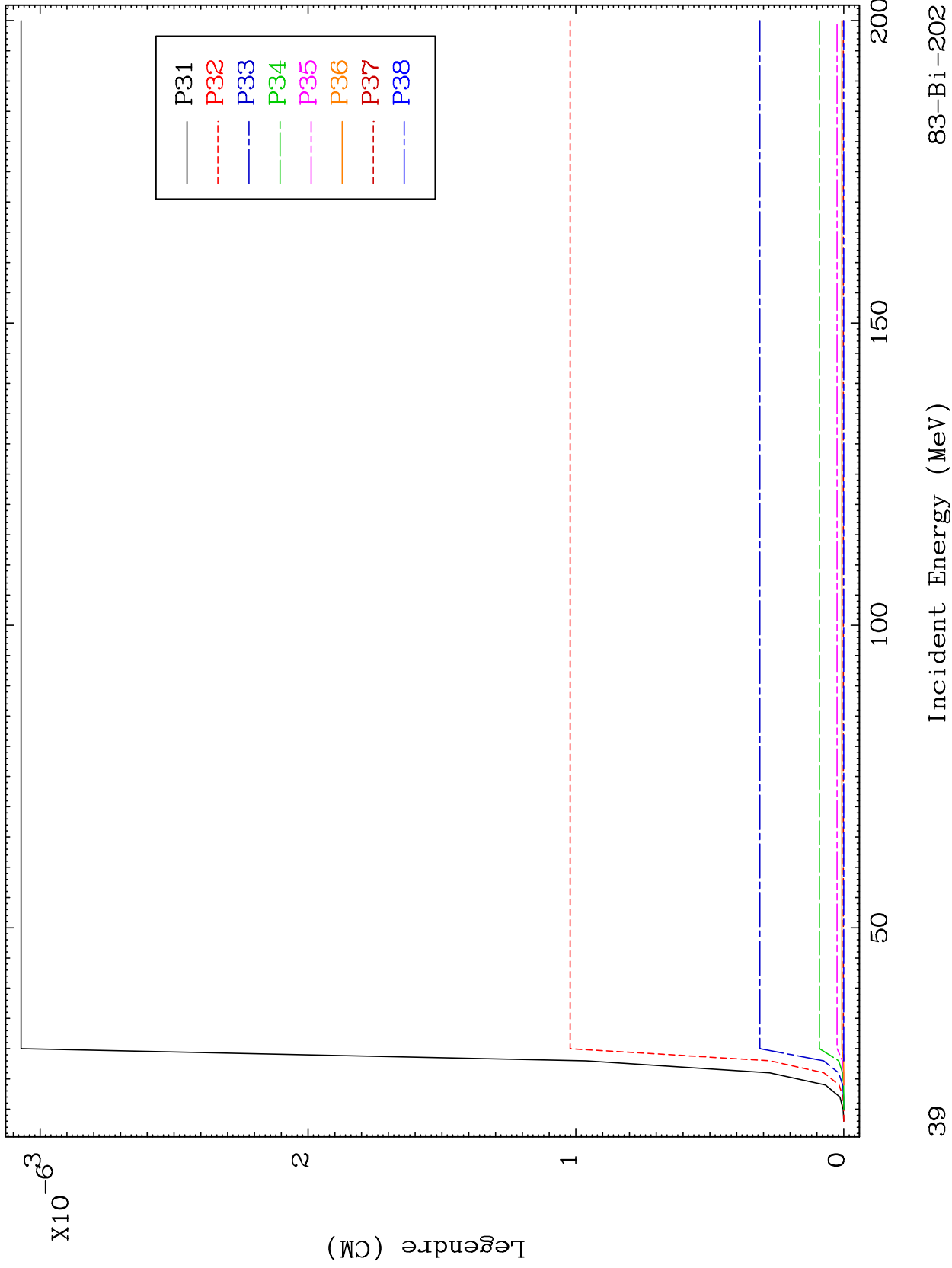
Incident Energy (MeV)

83-Bi-202

MAT 8304

609.6 keV (n,n') Level
Legendre Coefficients

83-Bi-202



39

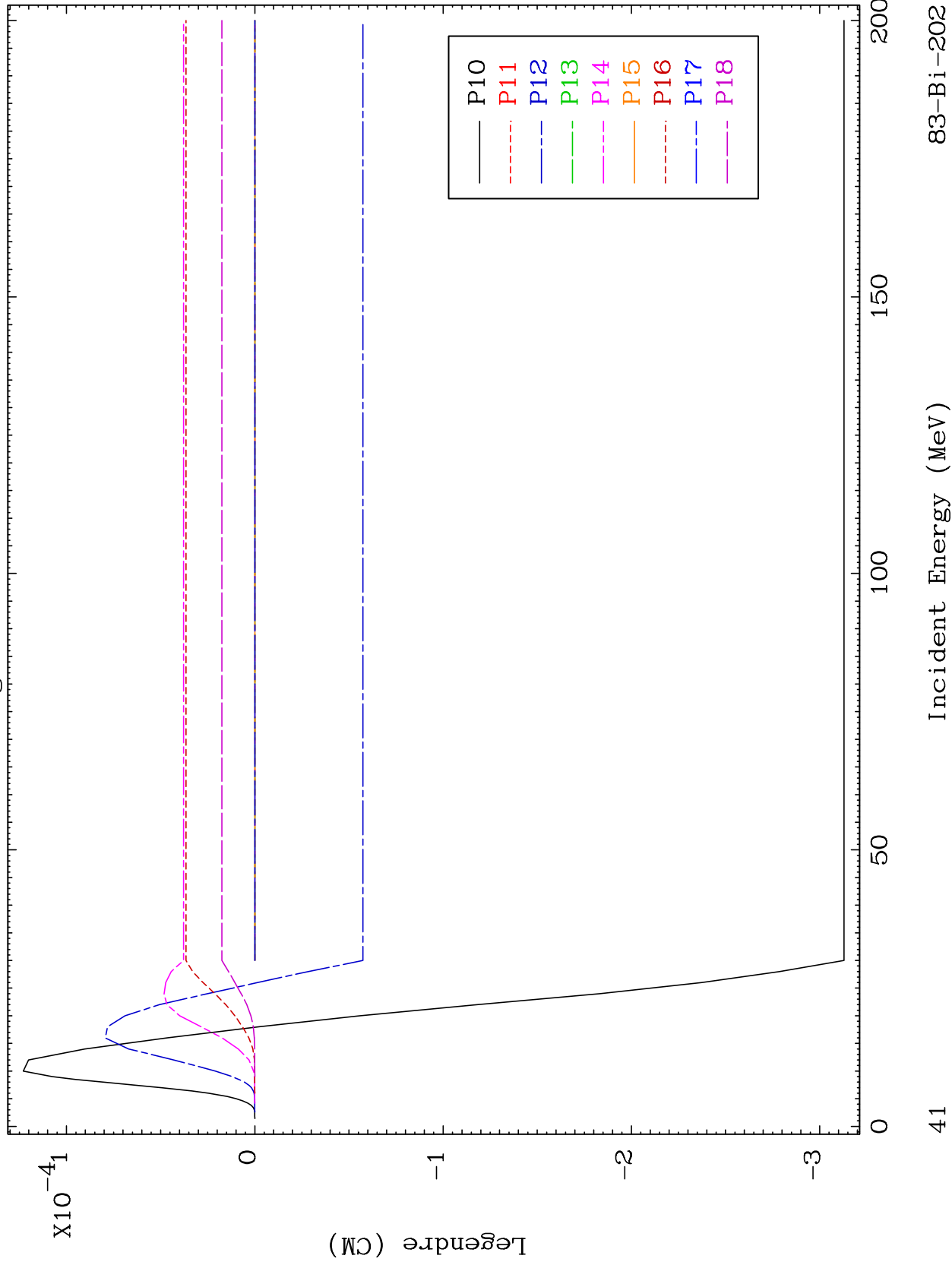
Incident Energy (MeV)

83-Bi-202

MAT 8304

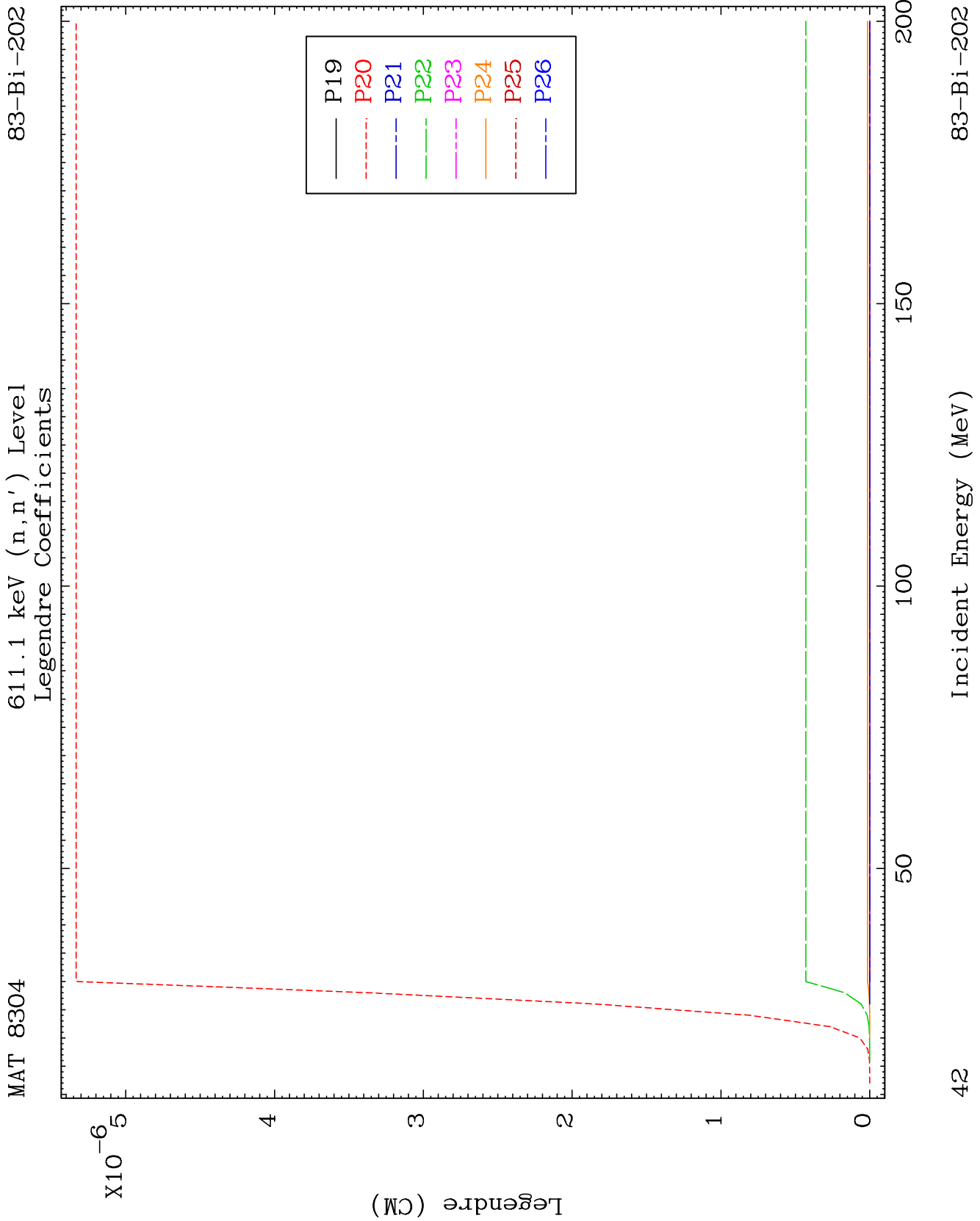
611.1 keV (n,n') Level
Legendre Coefficients

83-Bi-202



41

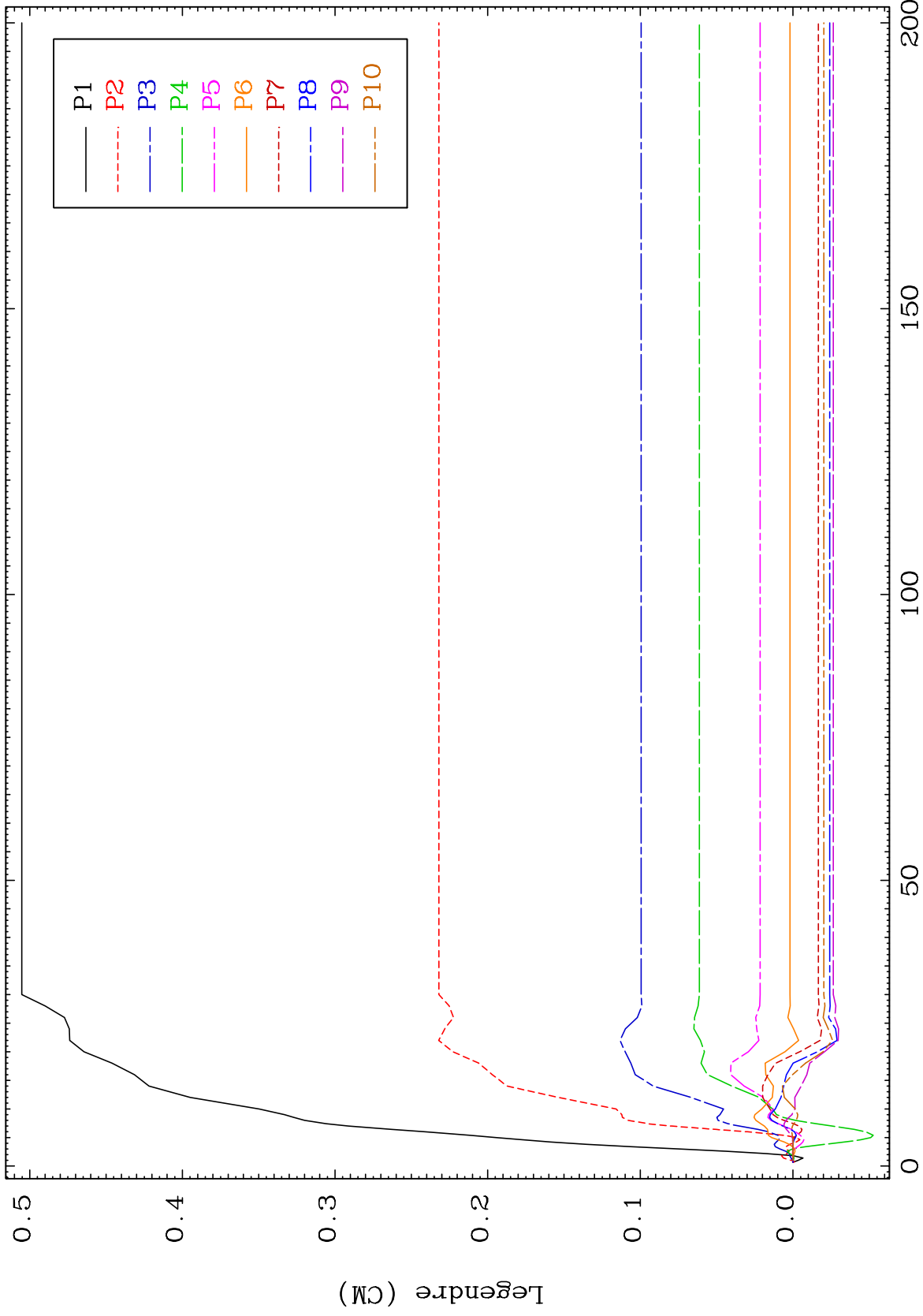
83-Bi-202



MAT 8304

625.0 keV (n,n') Level
Legendre Coefficients

83-Bi-202



43

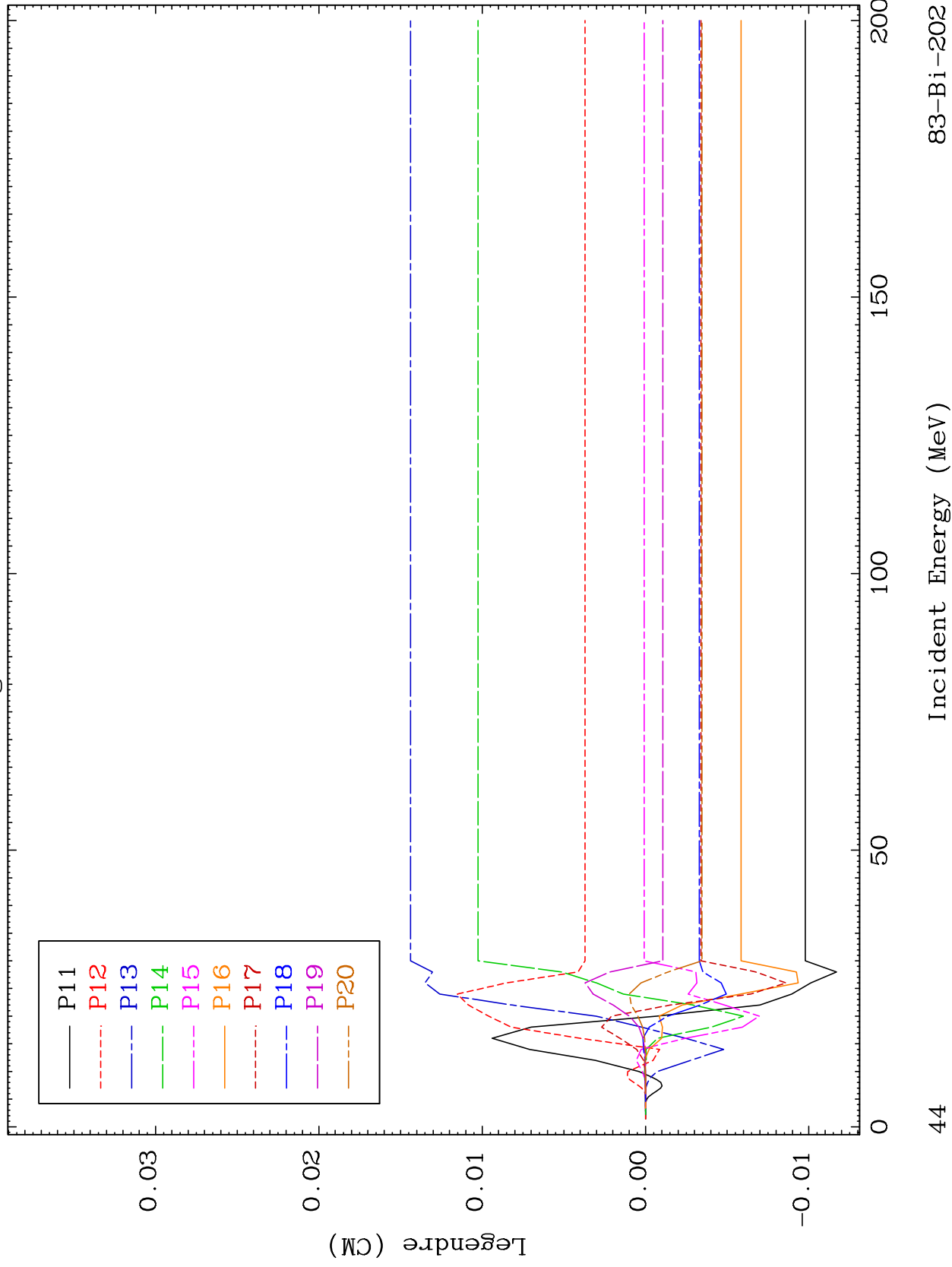
Incident Energy (MeV)

83-Bi-202

MAT 8304

625.0 keV (n,n') Level
Legendre Coefficients

83-Bi-202

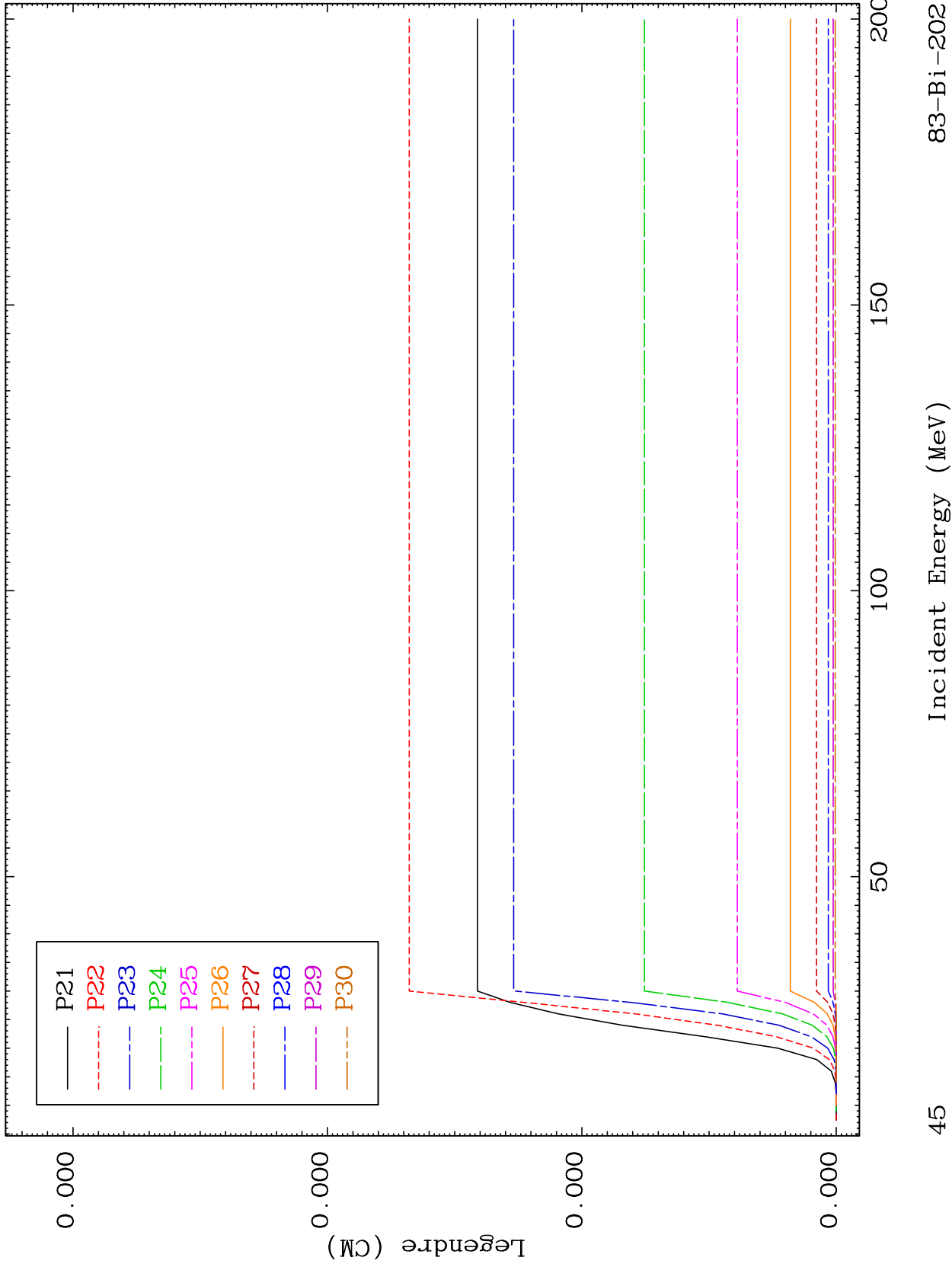


44

MAT 8304

625.0 keV (n,n') Level
Legendre Coefficients

83-Bi-202



45

Incident Energy (MeV)

50

100

150

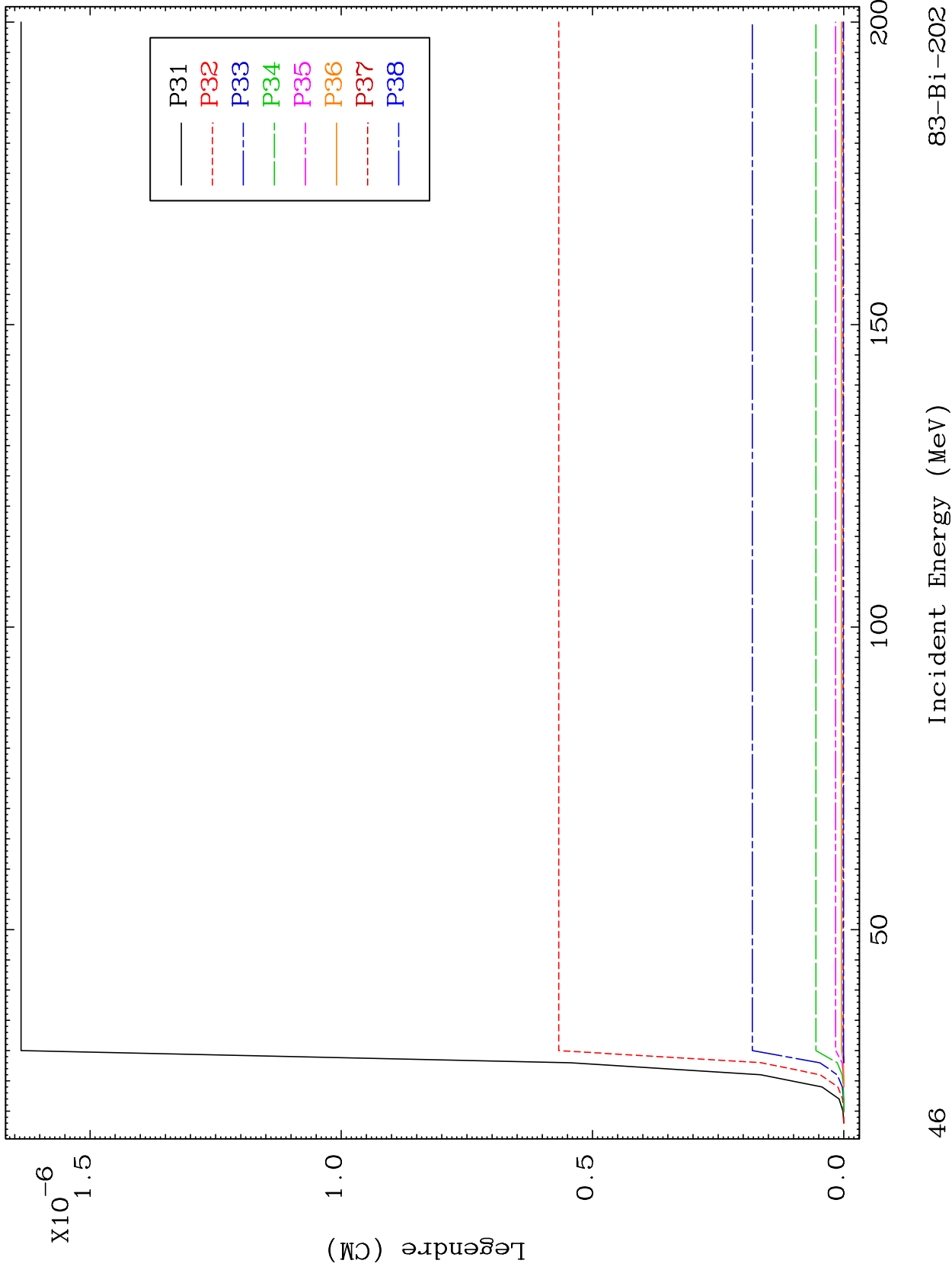
200

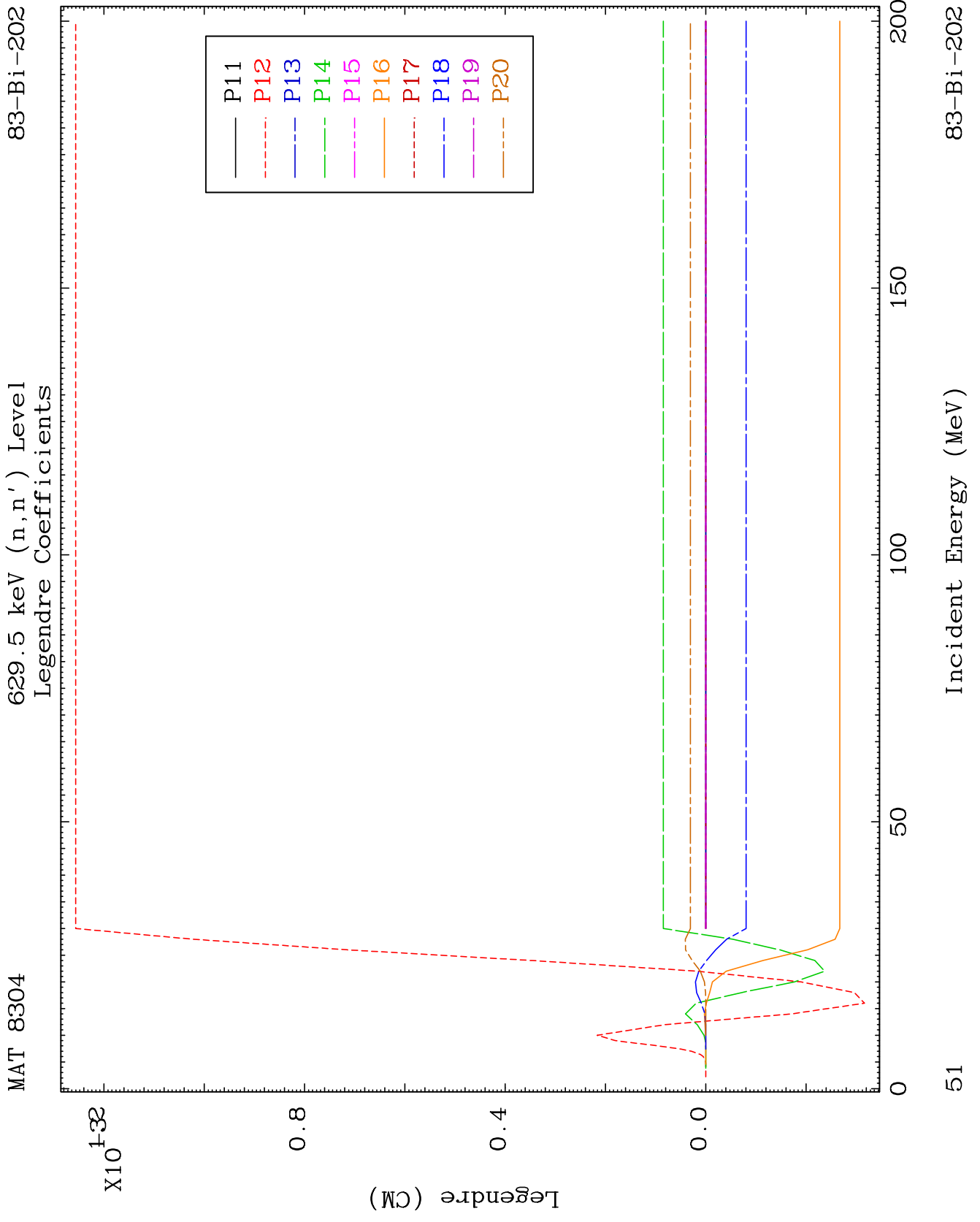
83-Bi-202

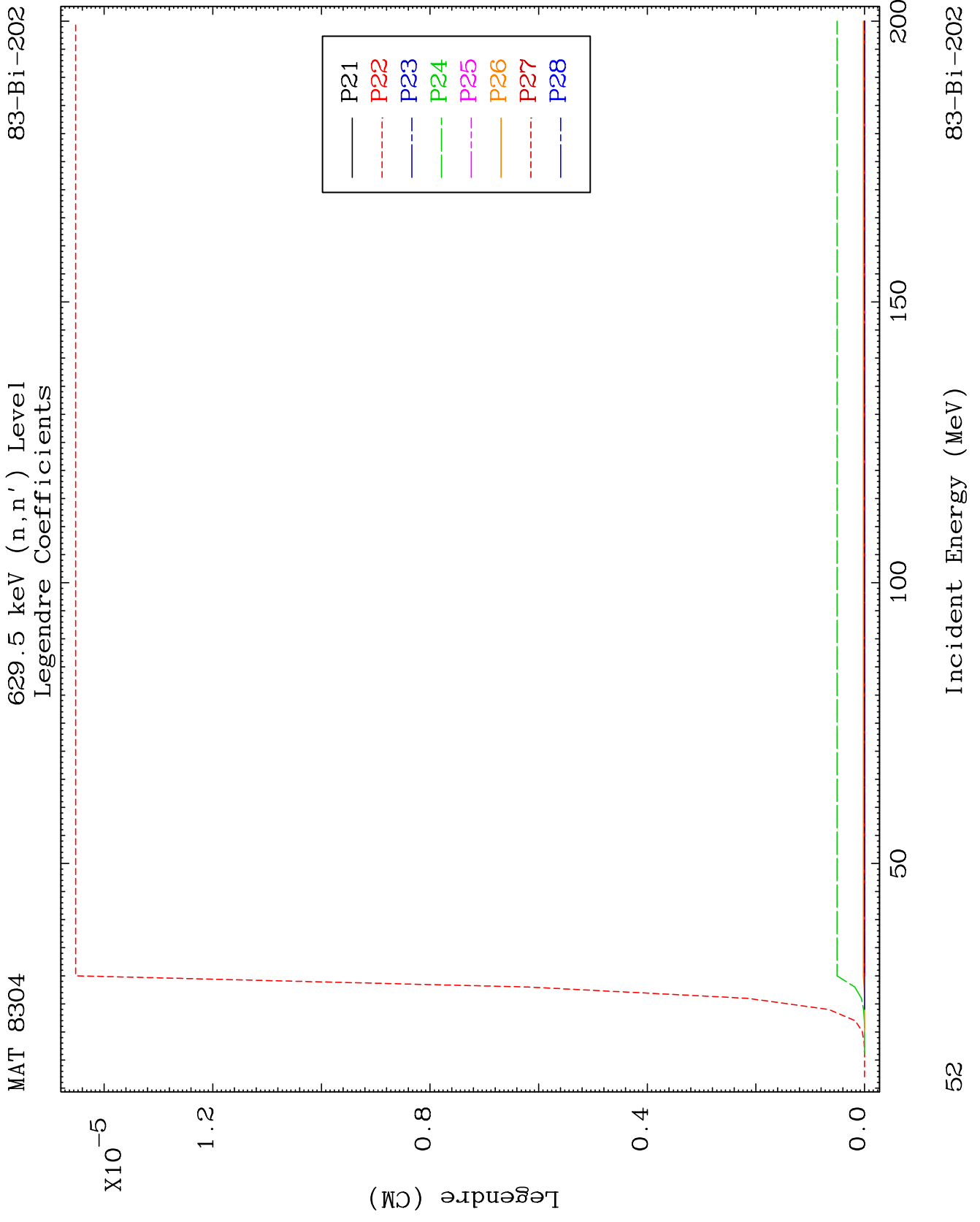
MAT 8304

625.0 keV (n,n') Level
Legendre Coefficients

83-Bi-202



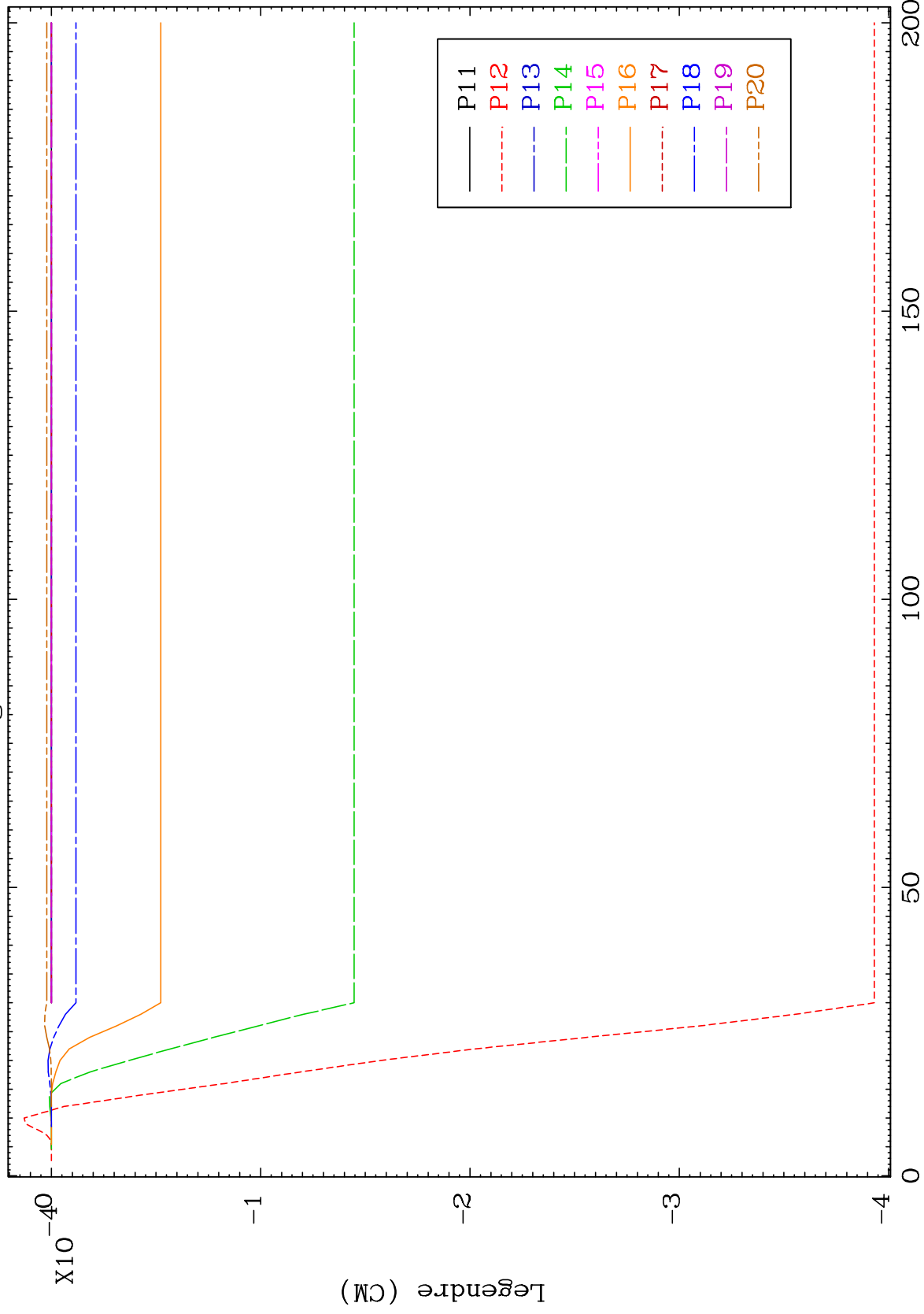




MAT 8304

631.9 keV (n,n') Level
Legendre Coefficients

83-Bi-202



54

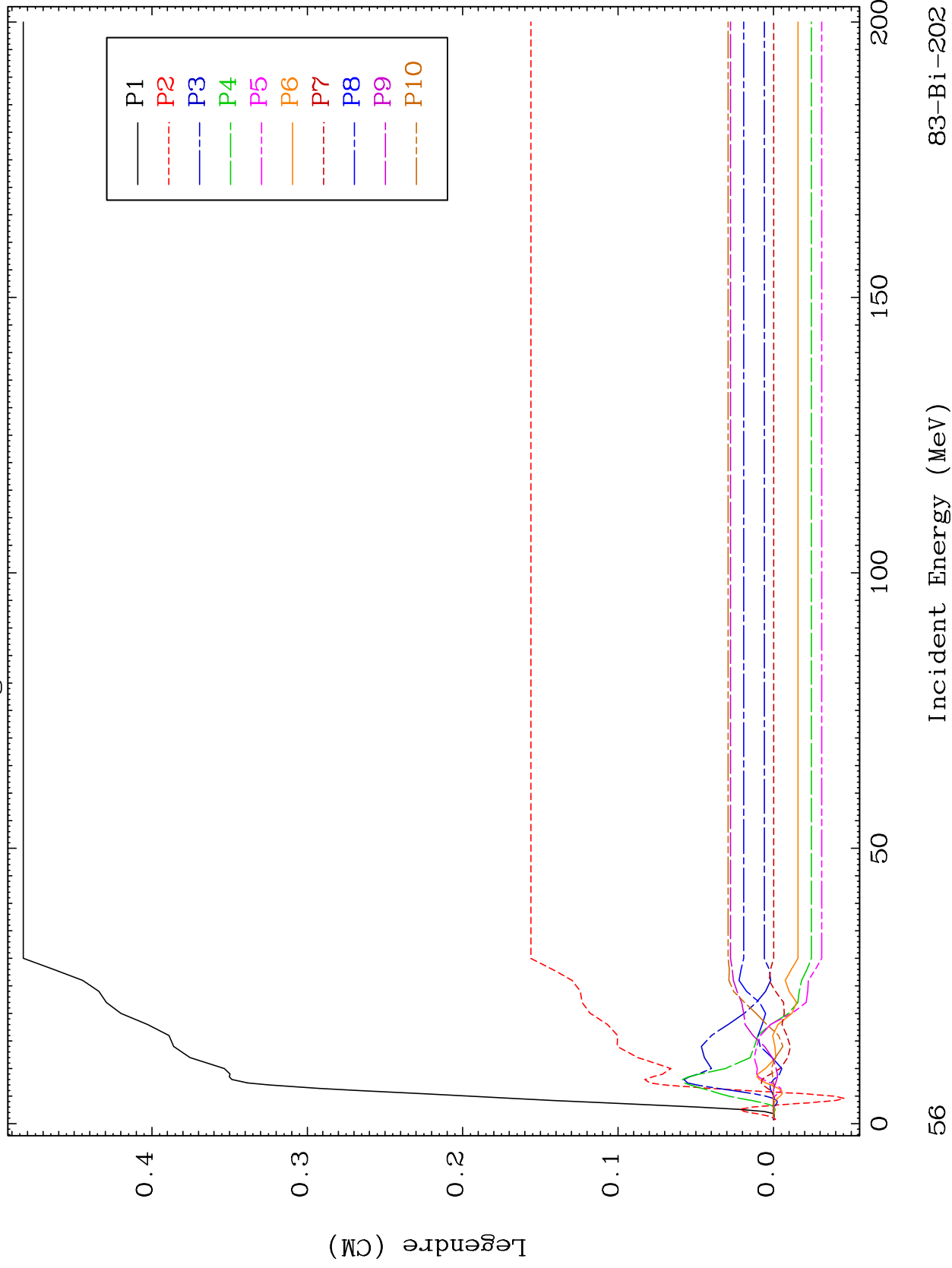
Incident Energy (MeV)

83-Bi-202

MAT 8304

635.9 keV (n,n') Level
Legendre Coefficients

83-Bi-202



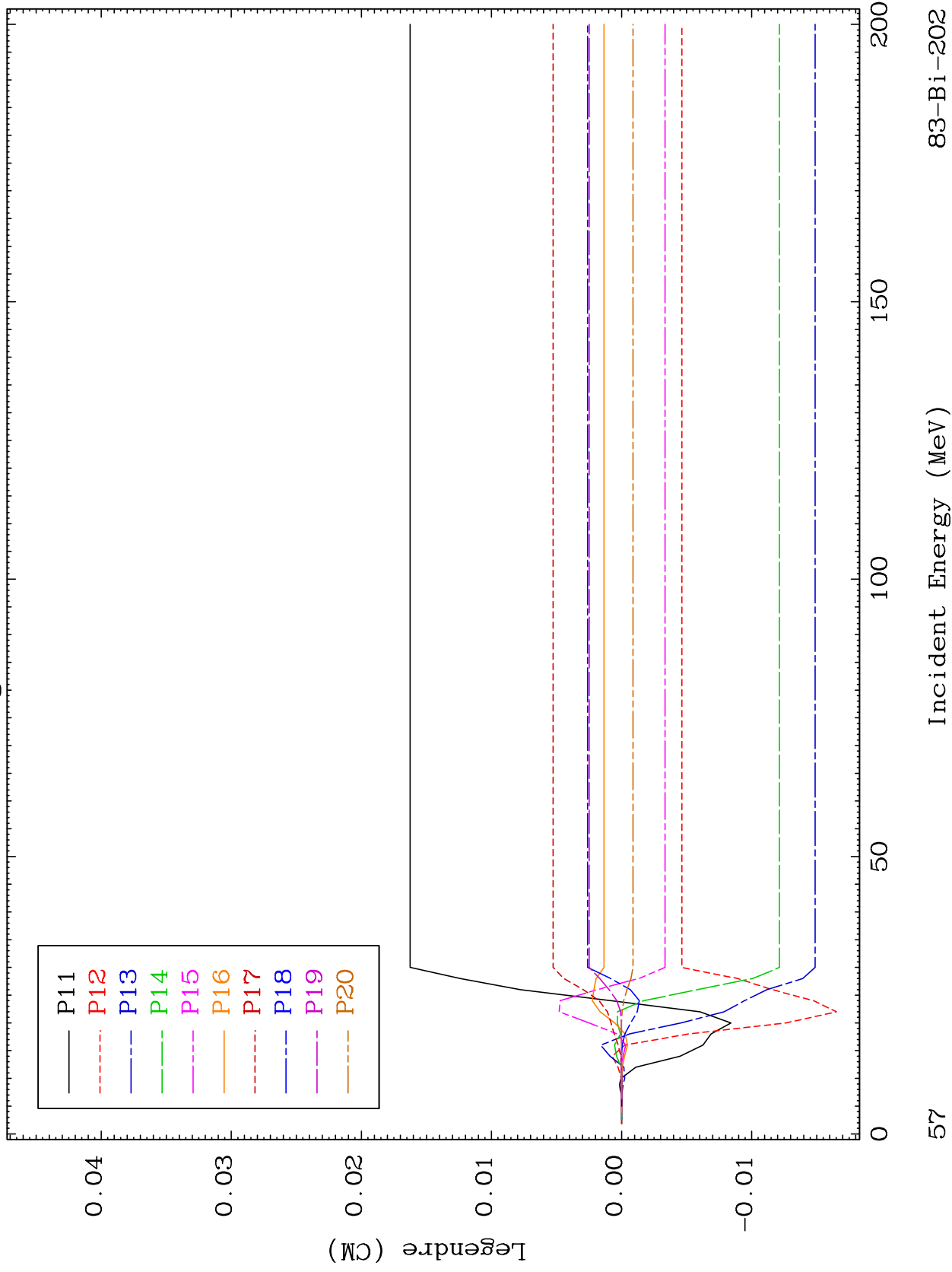
56

83-Bi-202

MAT 8304

635.9 keV (n,n') Level
Legendre Coefficients

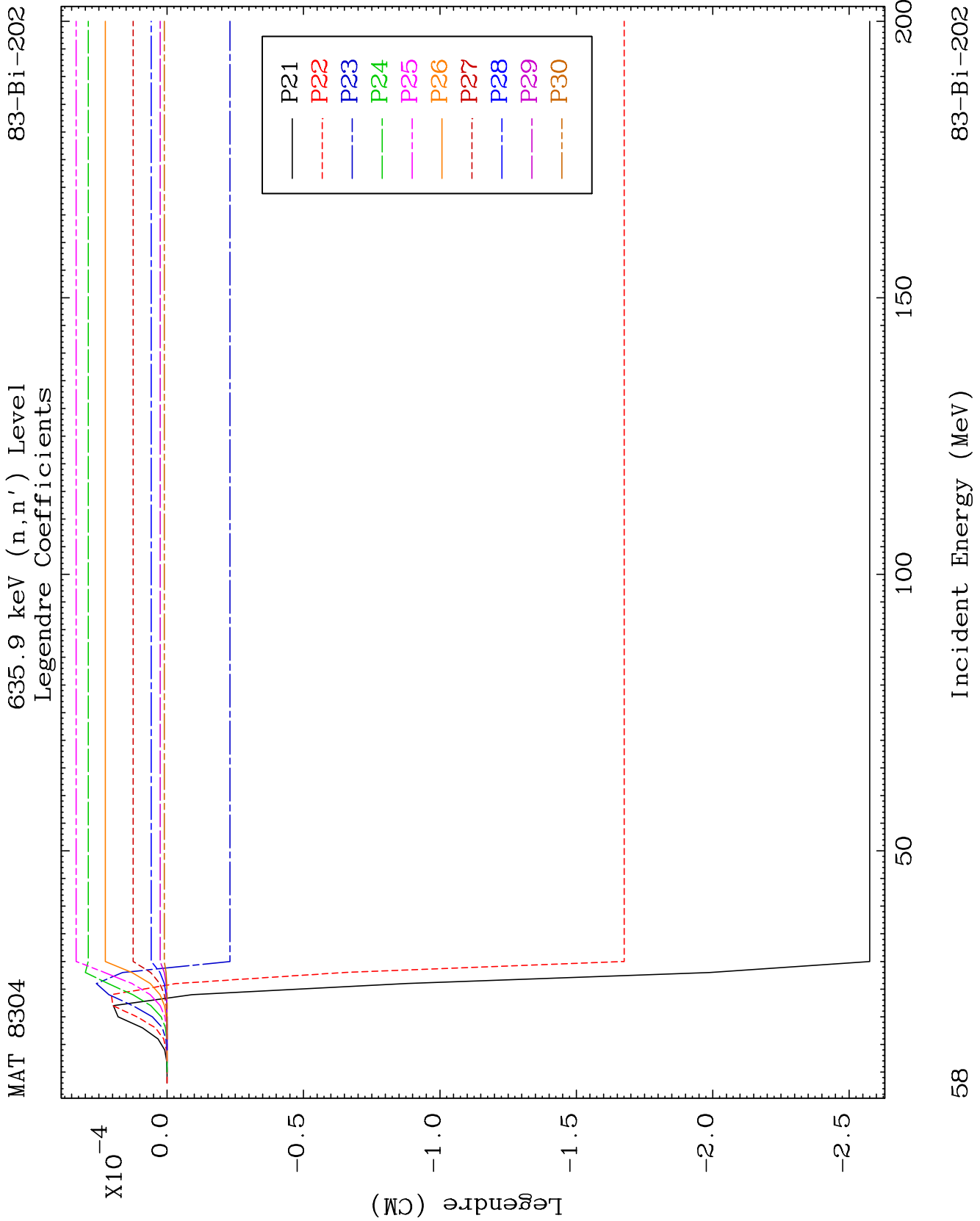
83-Bi-202



57

Incident Energy (MeV)

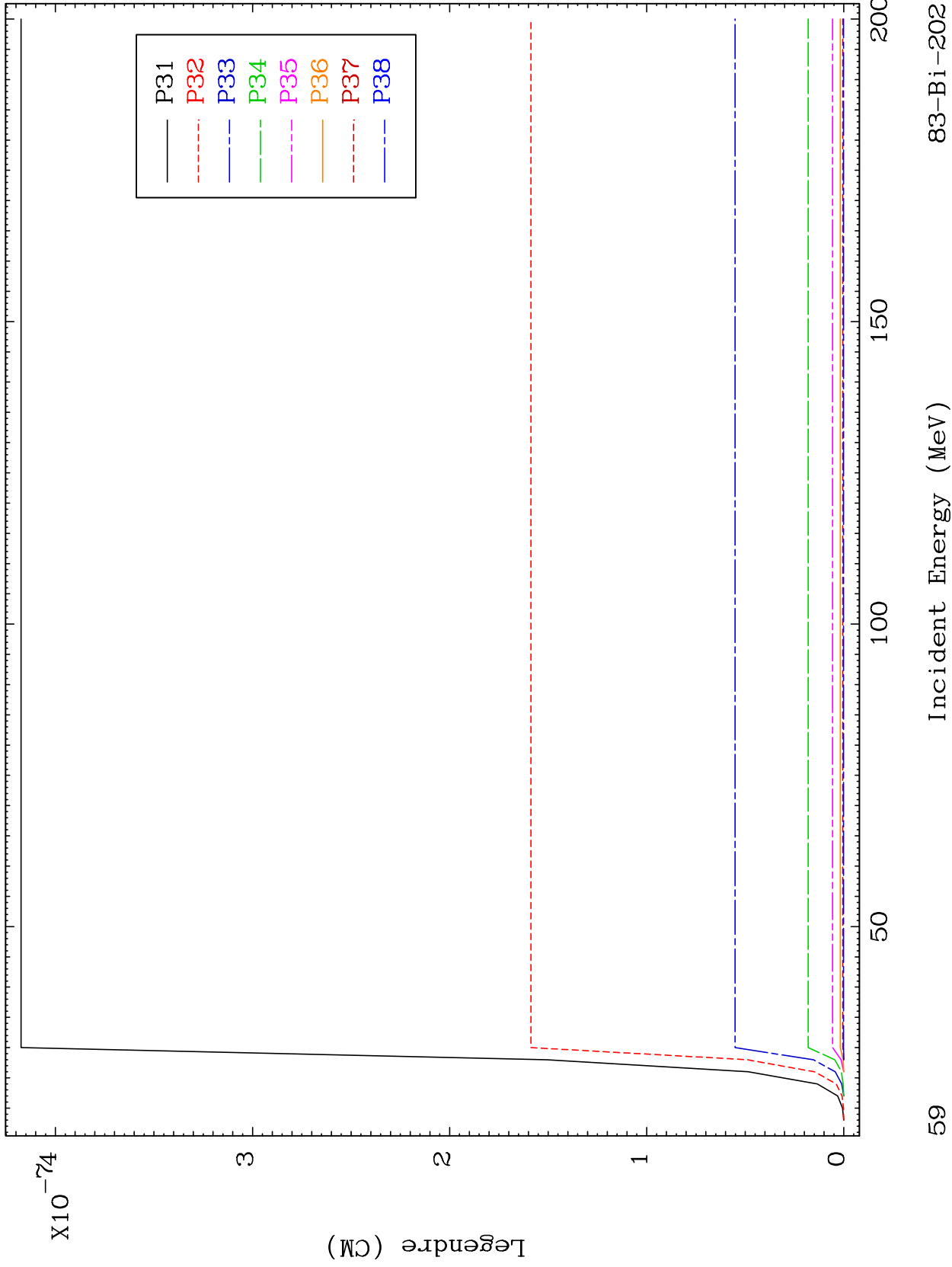
83-Bi-202



MAT 8304

635.9 keV (n,n') Level
Legendre Coefficients

83-Bi-202



83-Bi-202

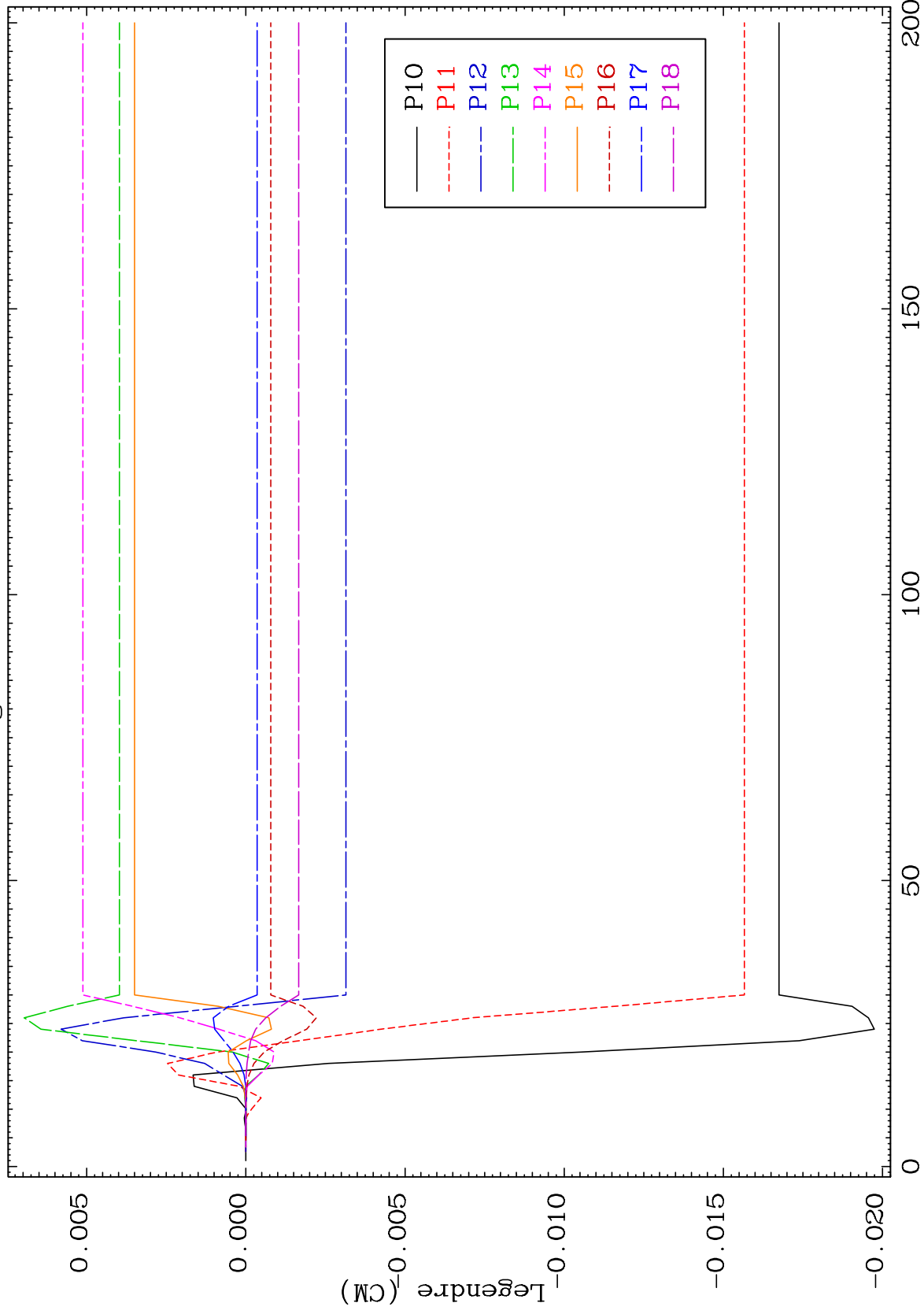
Incident Energy (MeV)

59

MAT 8304

638.9 keV (n,n') Level
Legendre Coefficients

83-Bi-202



61

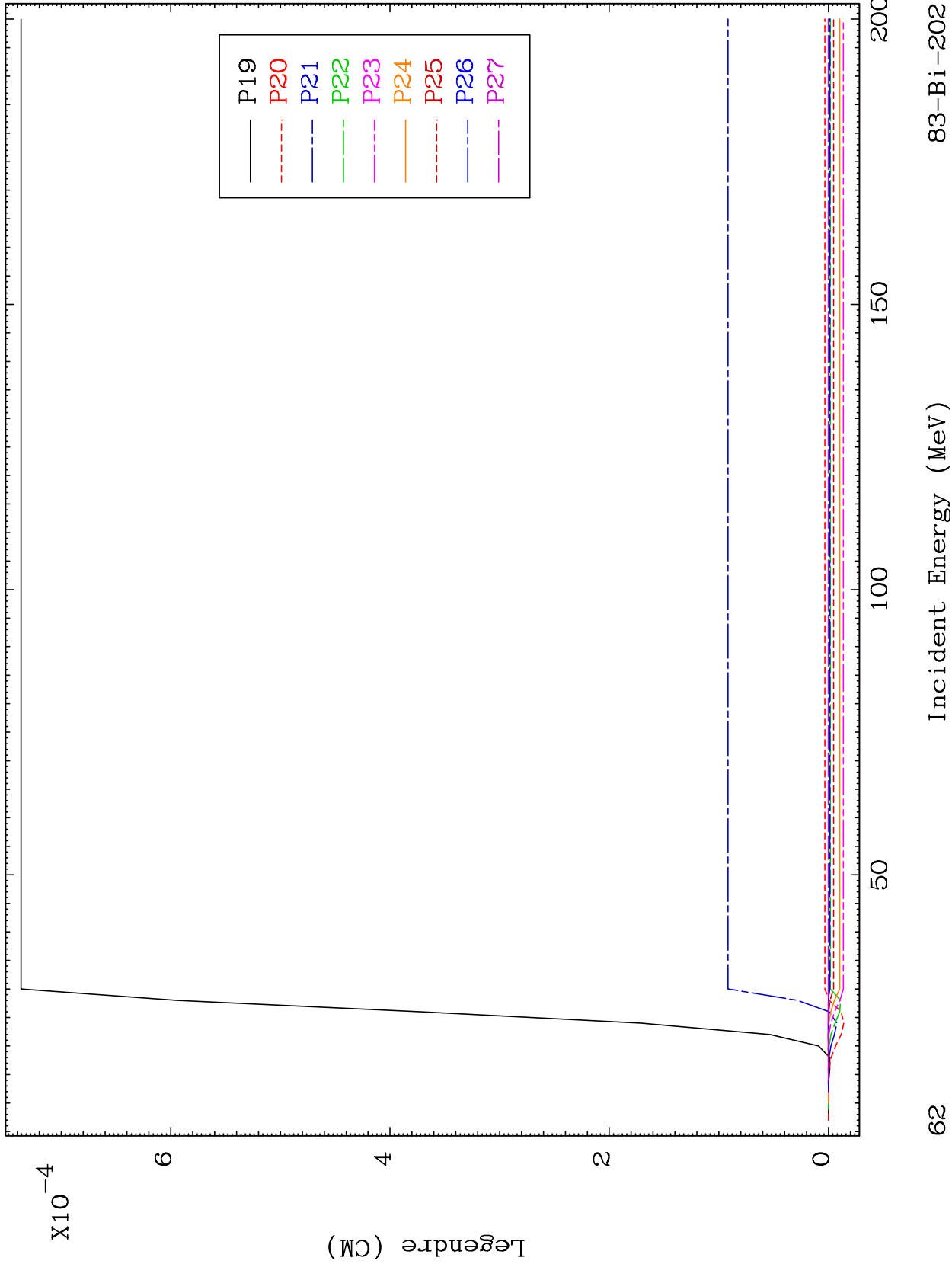
Incident Energy (MeV)

83-Bi-202

MAT 8304

638.9 keV (n,n') Level
Legendre Coefficients

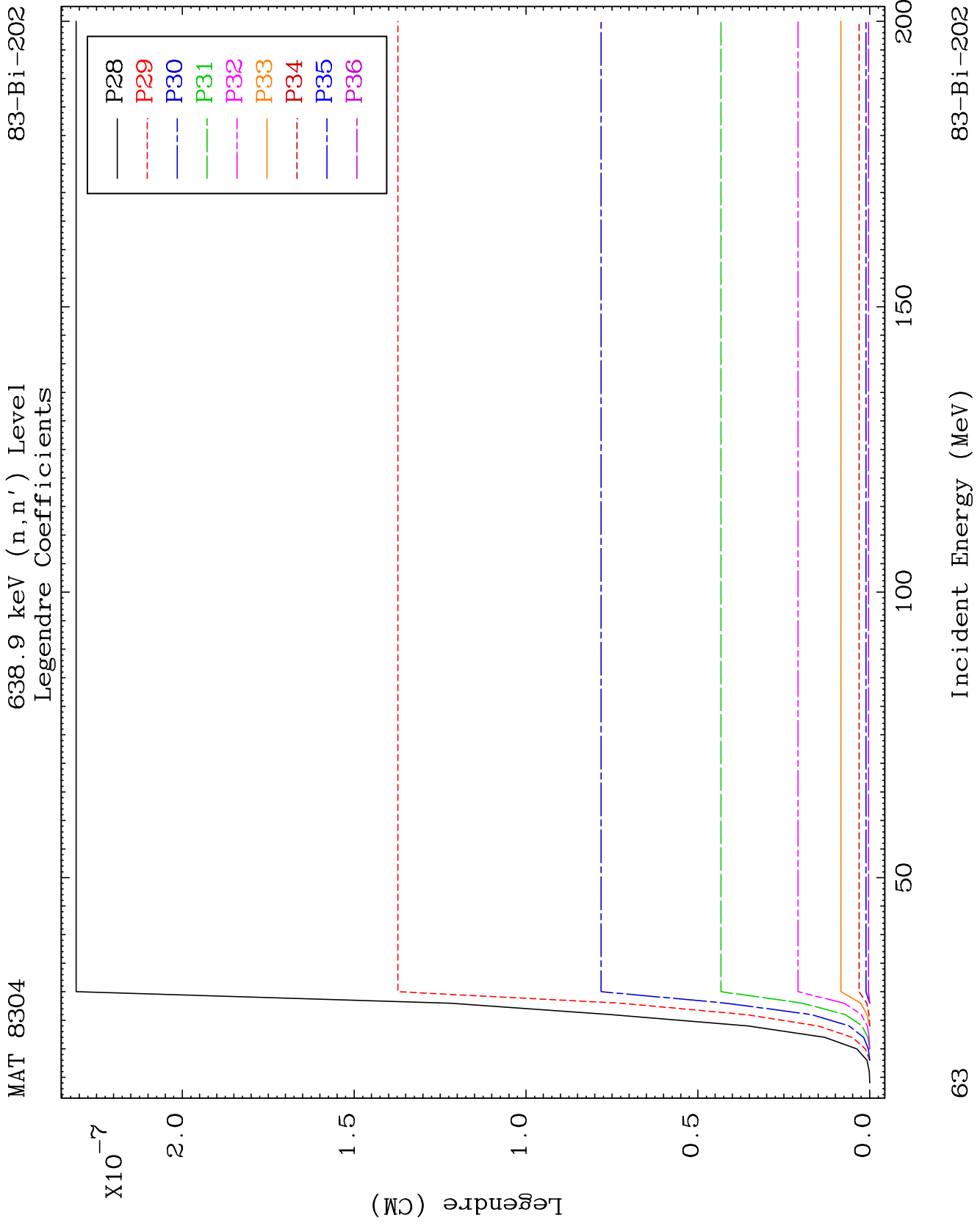
83-Bi-202



62

Incident Energy (MeV)

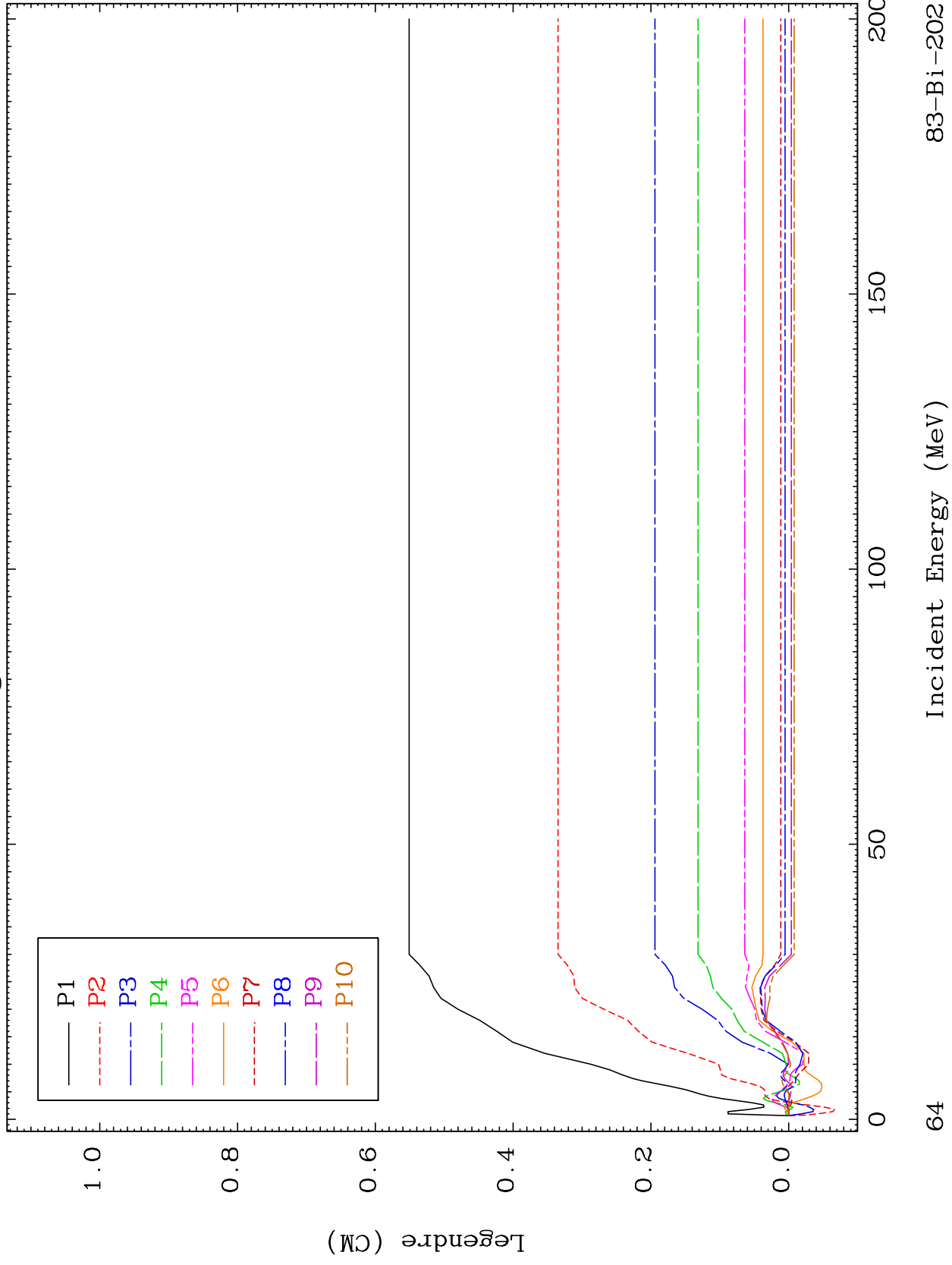
83-Bi-202



MAT 8304

642.9 keV (n,n') Level
Legendre Coefficients

83-Bi-202

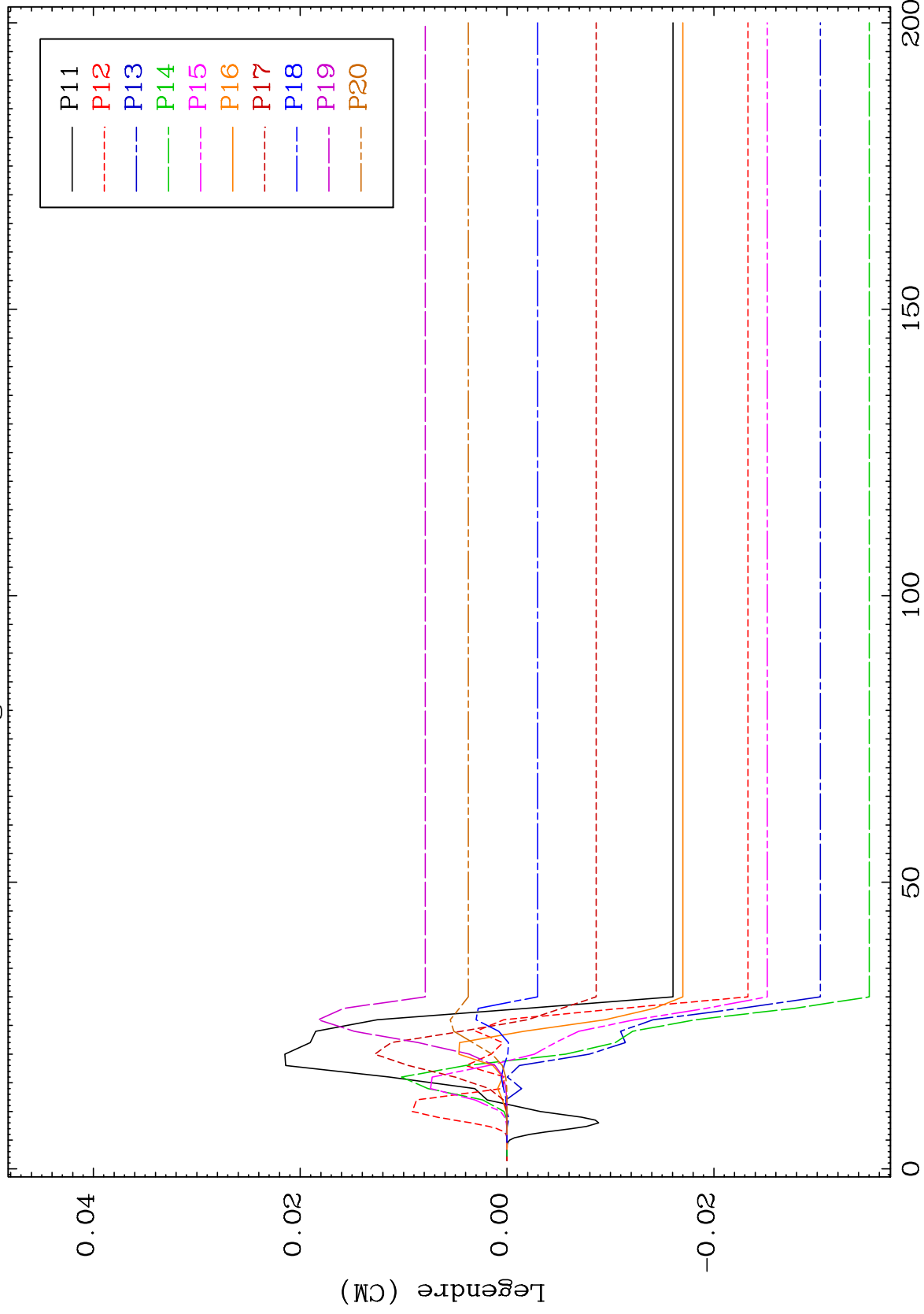


64

MAT 8304

642.9 keV (n,n') Level
Legendre Coefficients

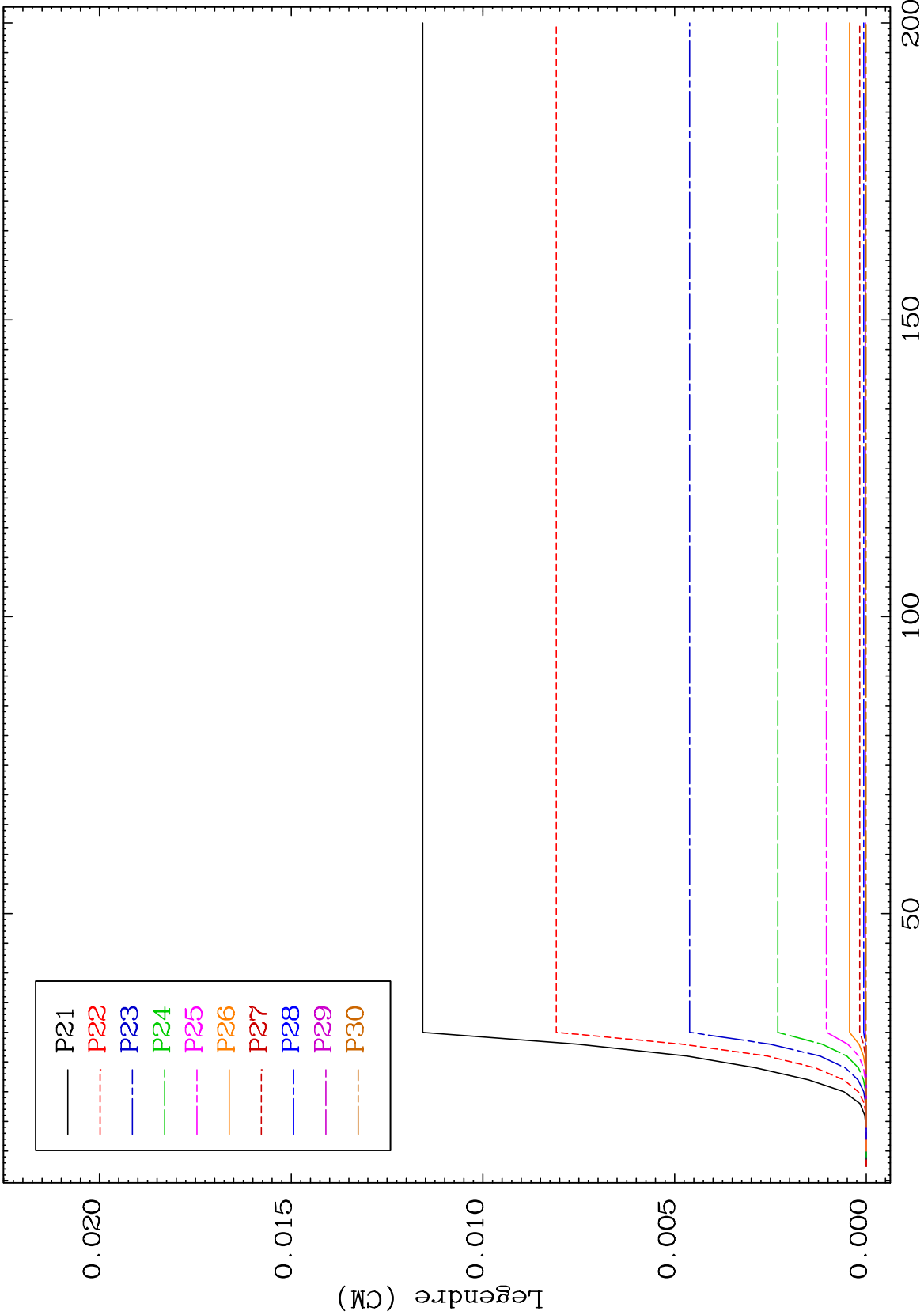
83-Bi-202



65

Incident Energy (MeV)

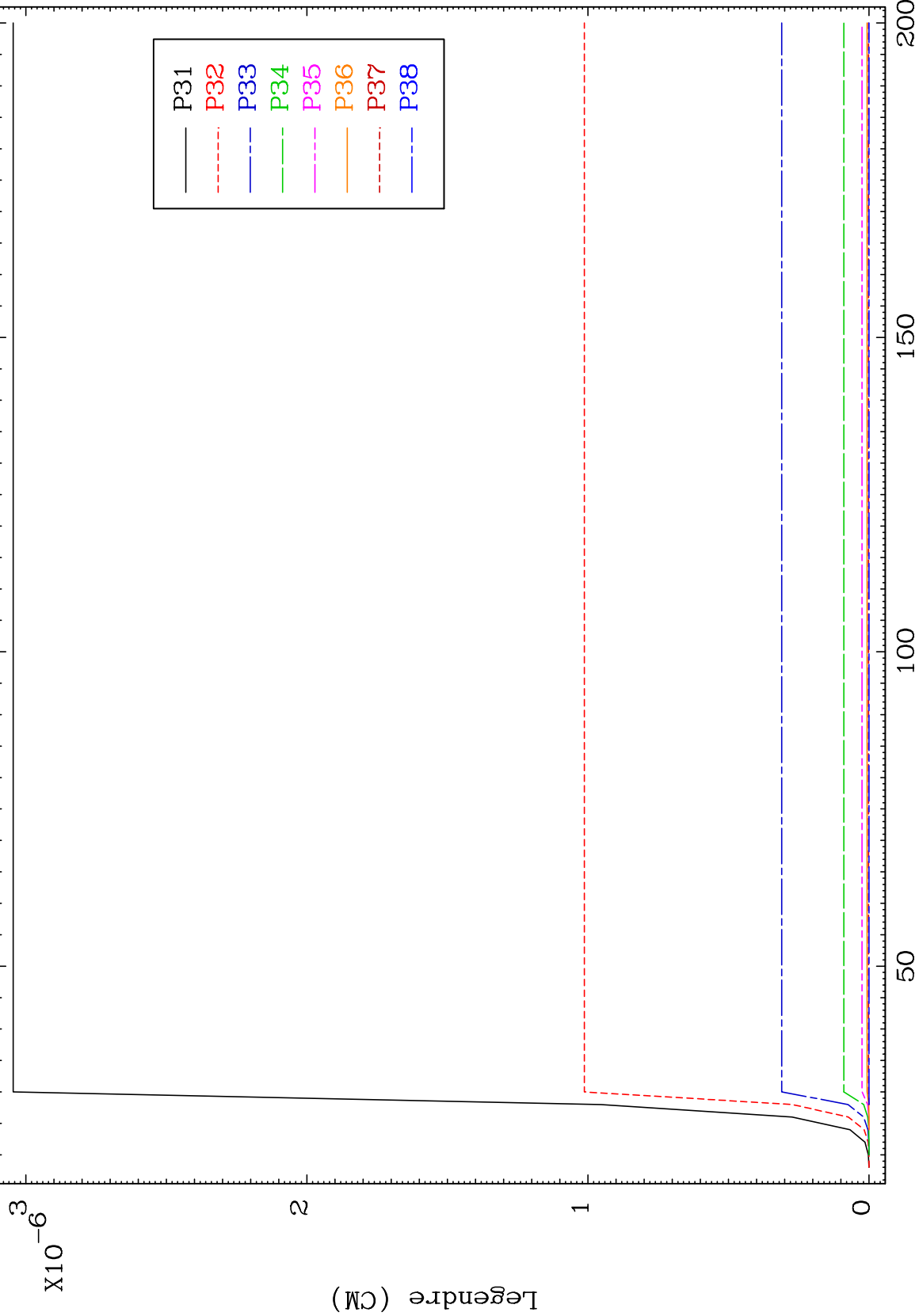
83-Bi-202



MAT 8304

642.9 keV (n,n') Level
Legendre Coefficients

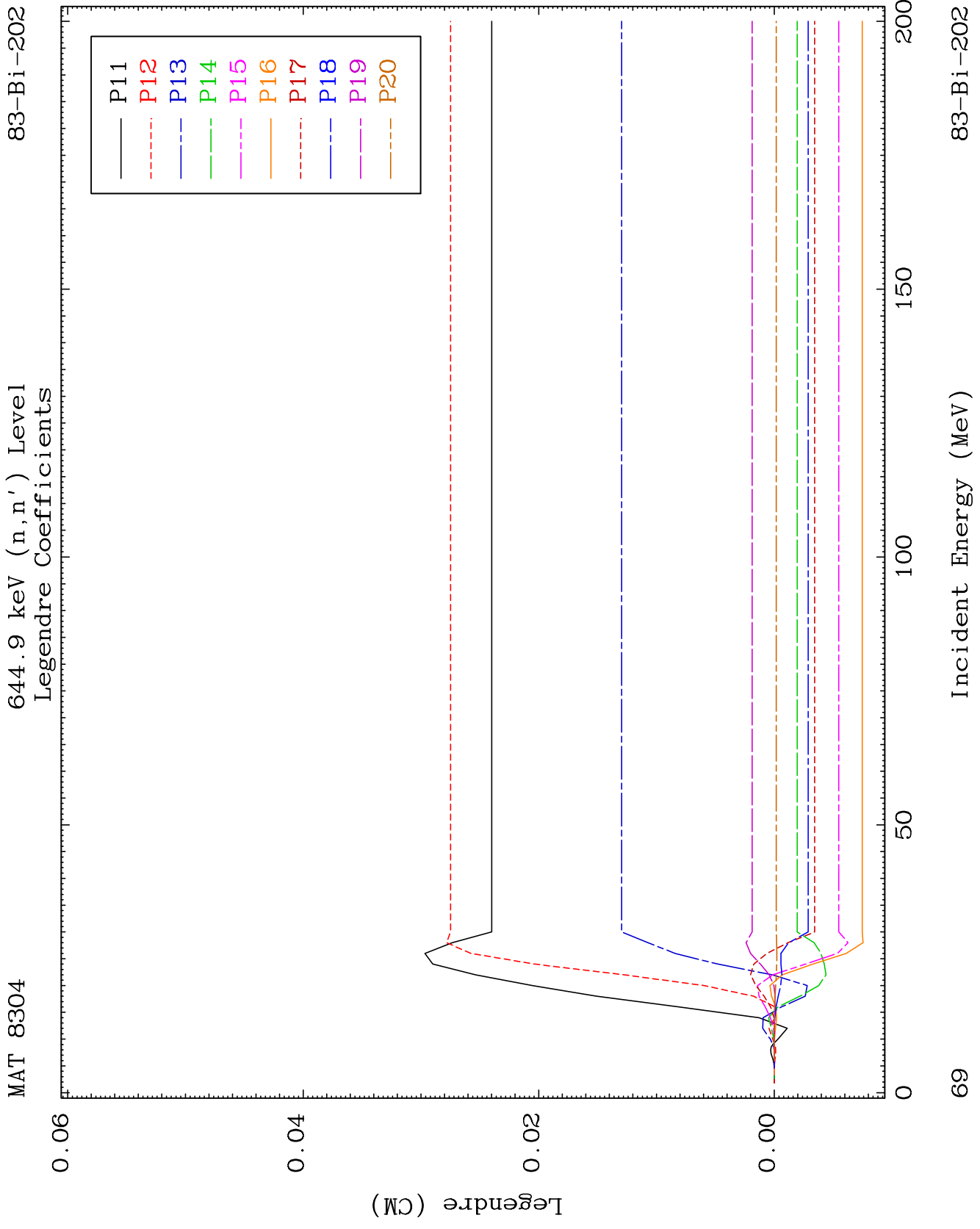
83-Bi-202



67

Incident Energy (MeV)

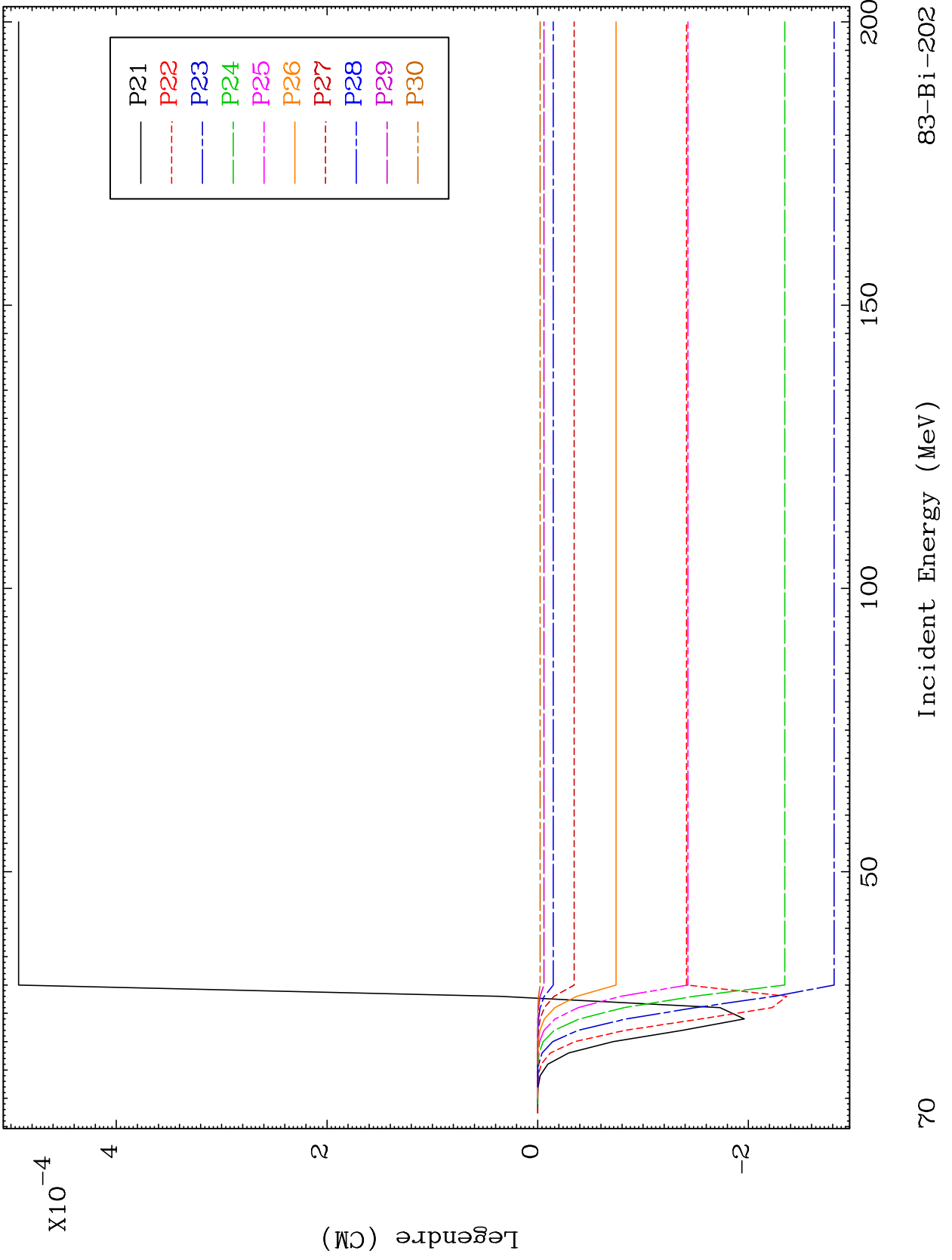
83-Bi-202



MAT 8304

644.9 keV (n,n') Level
Legendre Coefficients

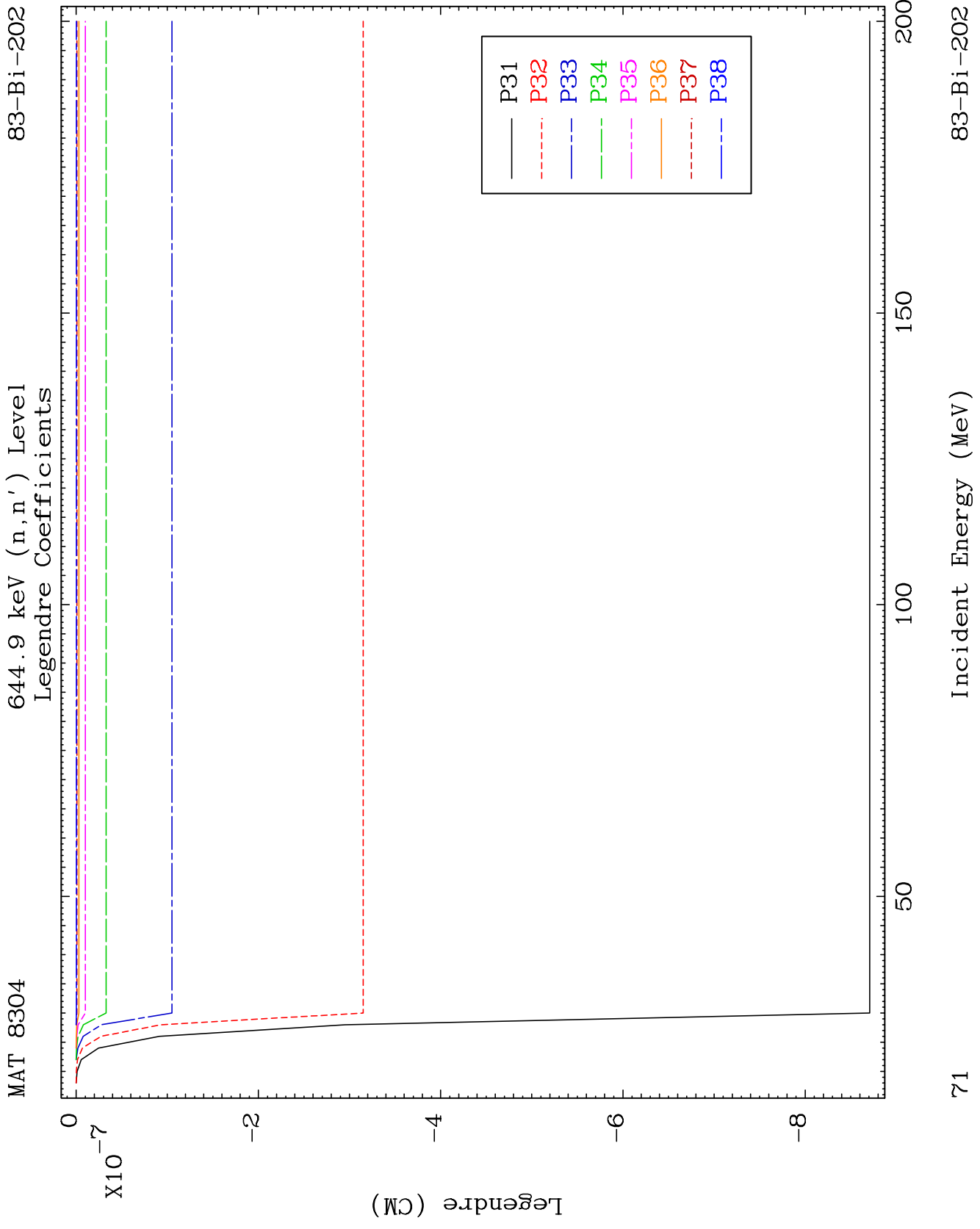
83-Bi-202

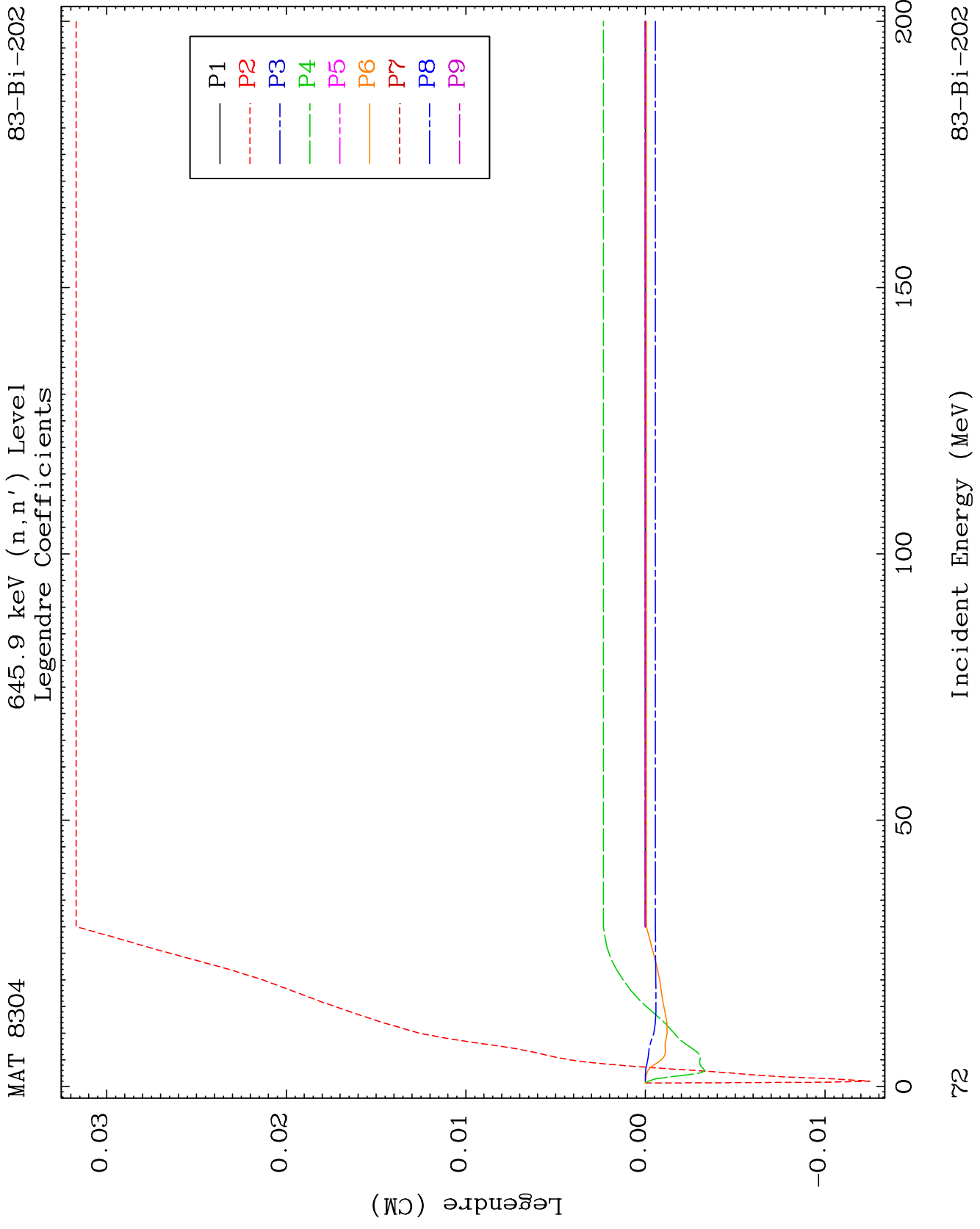


70

Incident Energy (MeV)

83-Bi-202

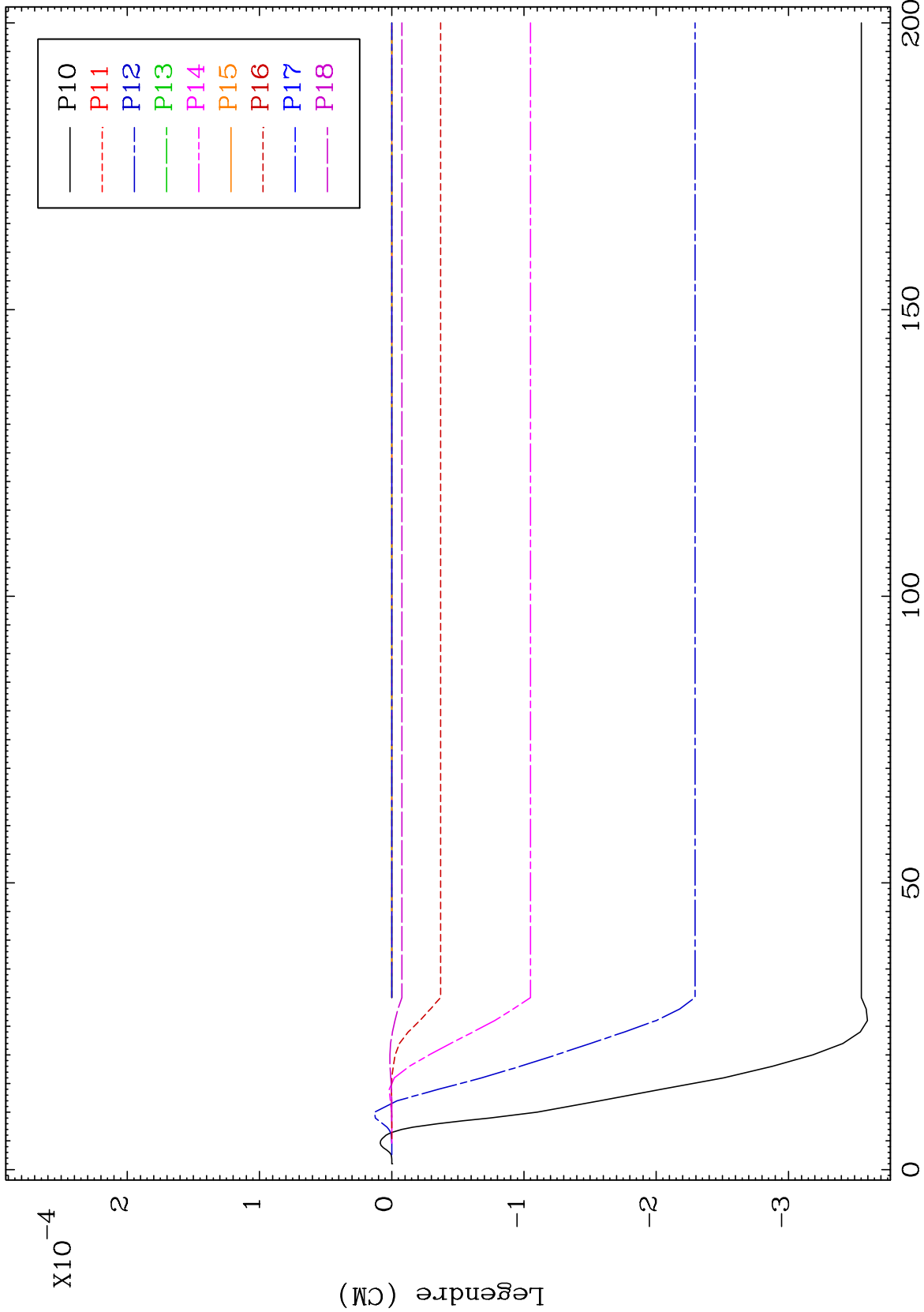




MAT 8304

645.9 keV (n,n') Level
Legendre Coefficients

83-Bi-202



73

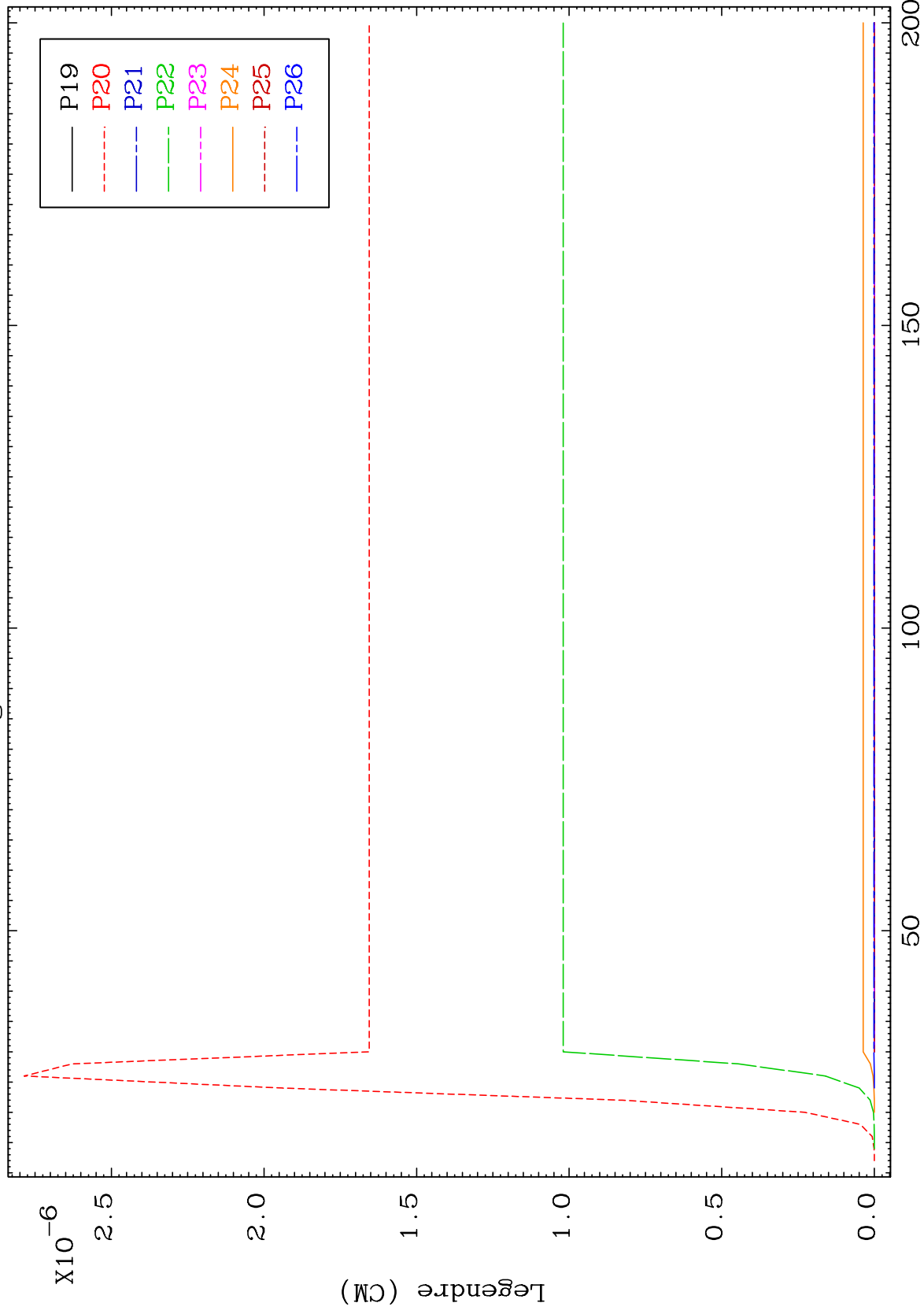
Incident Energy (MeV)

83-Bi-202

MAT 8304

645.9 keV (n,n') Level
Legendre Coefficients

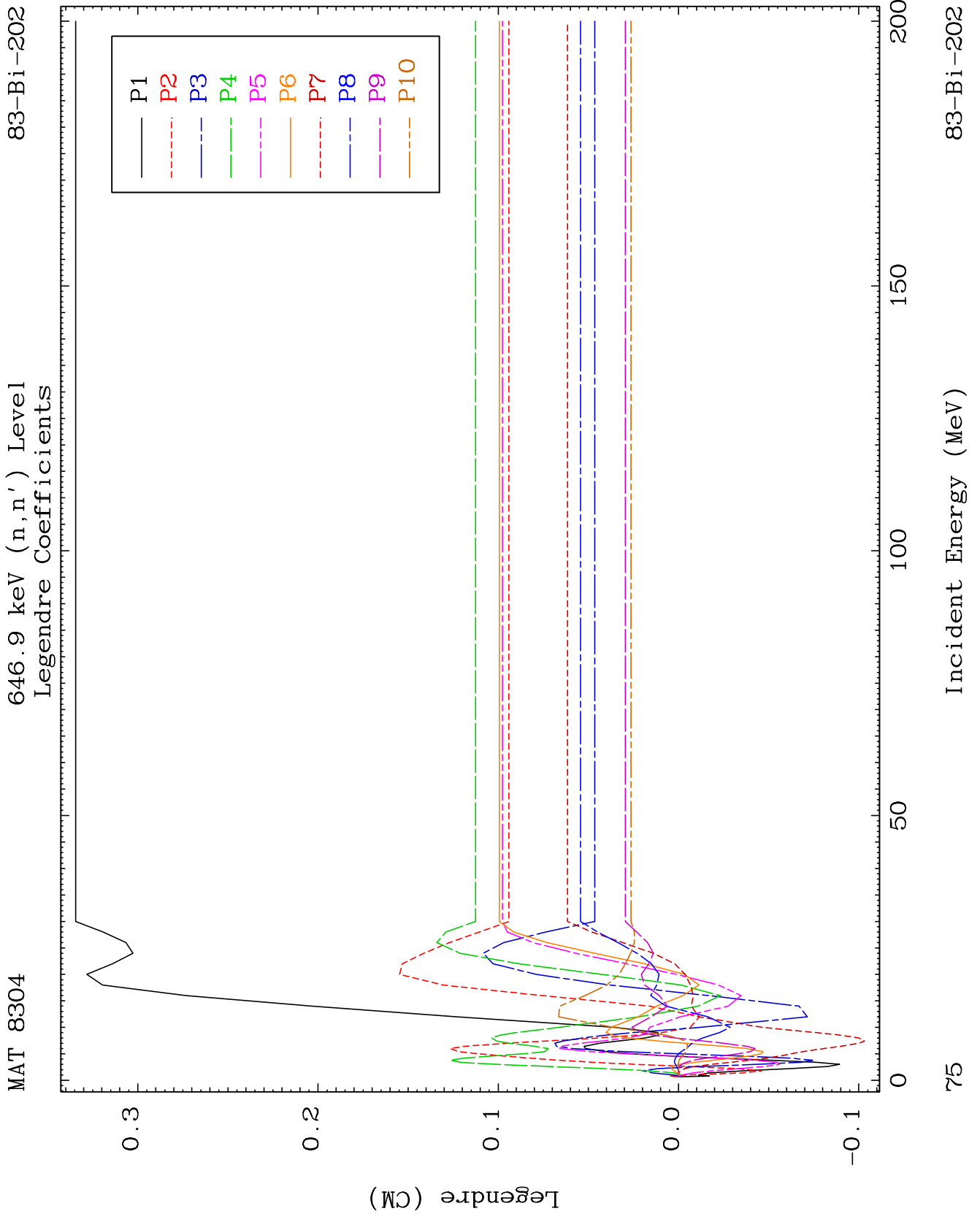
83-Bi-202

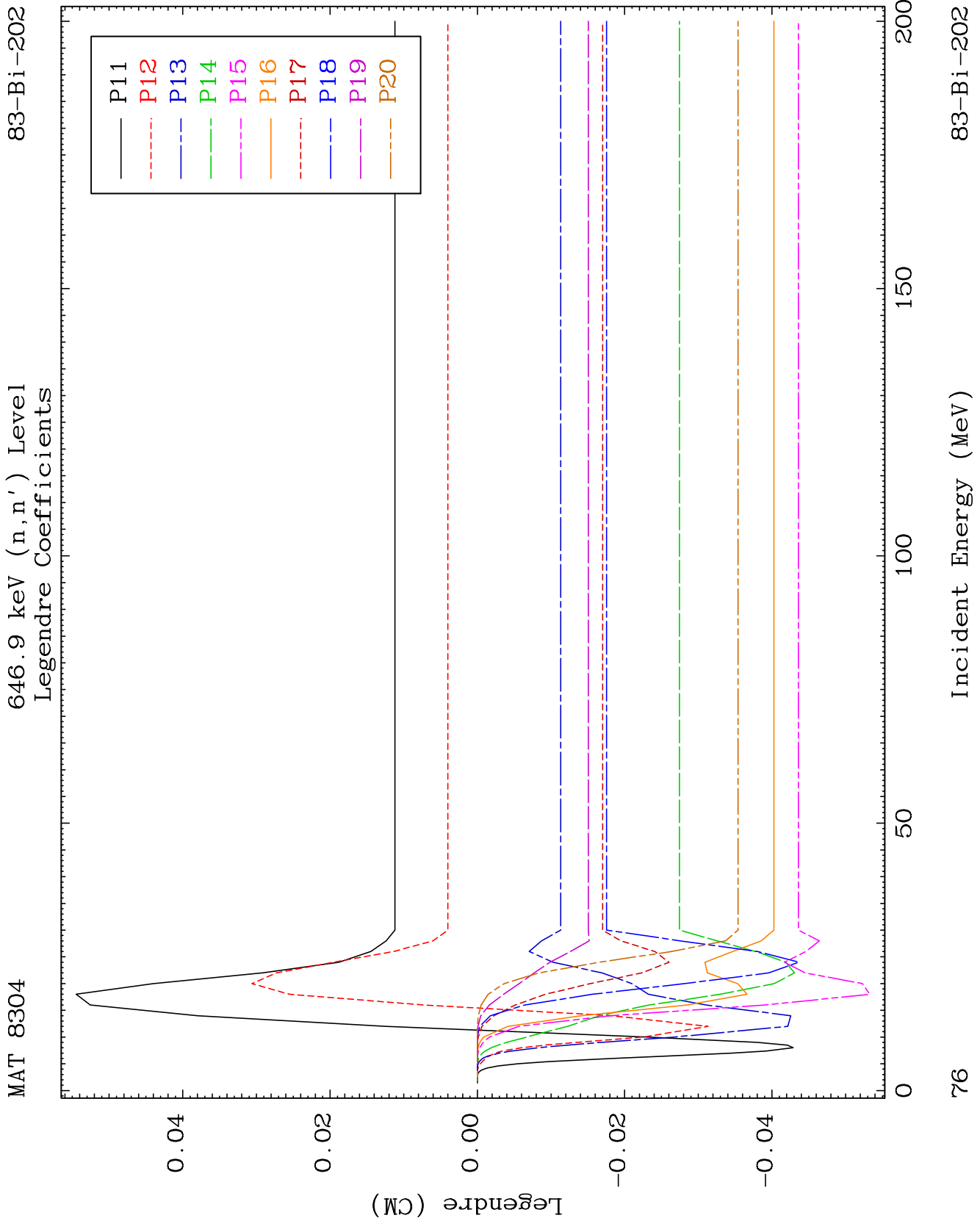


74

Incident Energy (MeV)

83-Bi-202

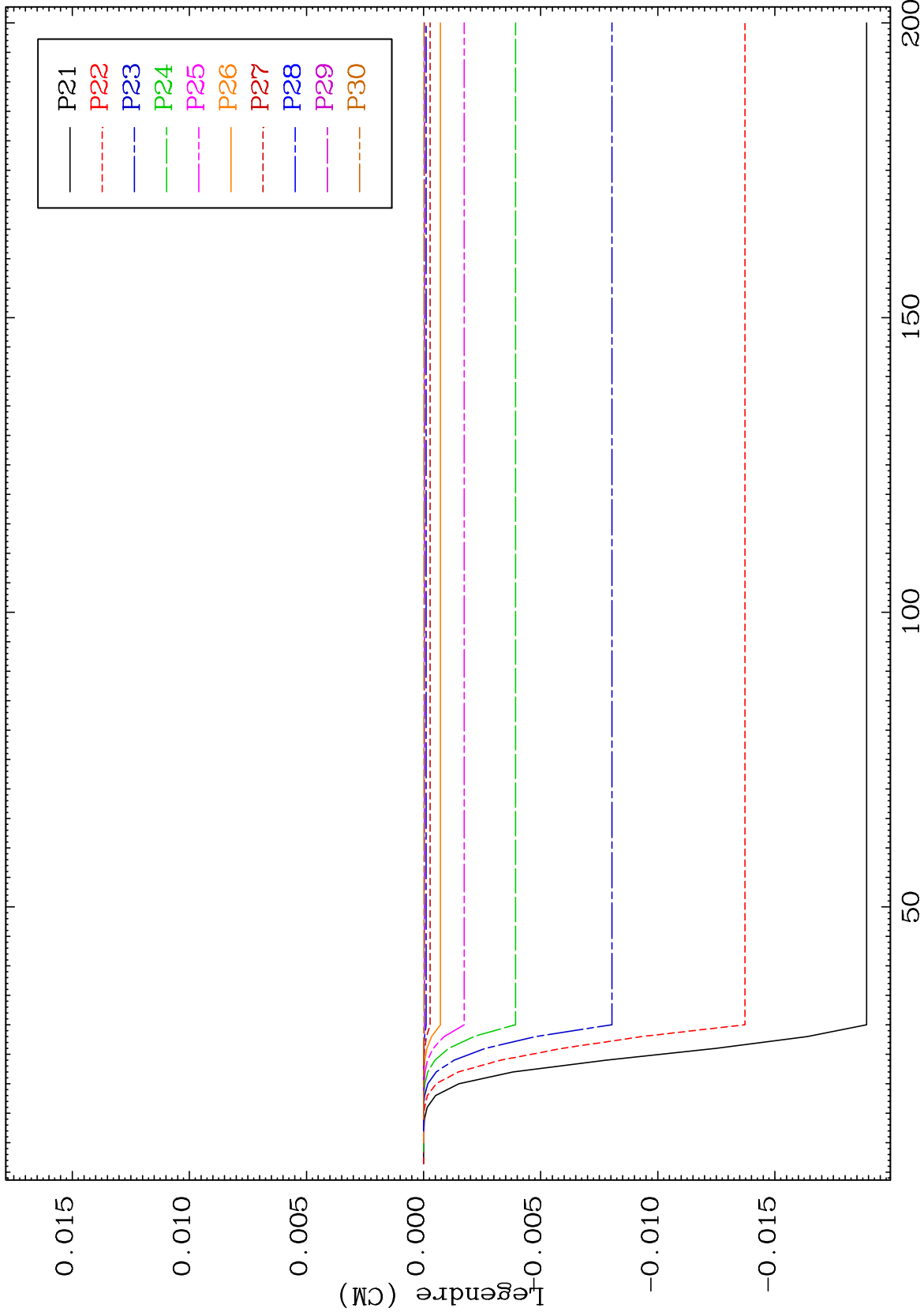




MAT 8304

646.9 keV (n,n') Level
Legendre Coefficients

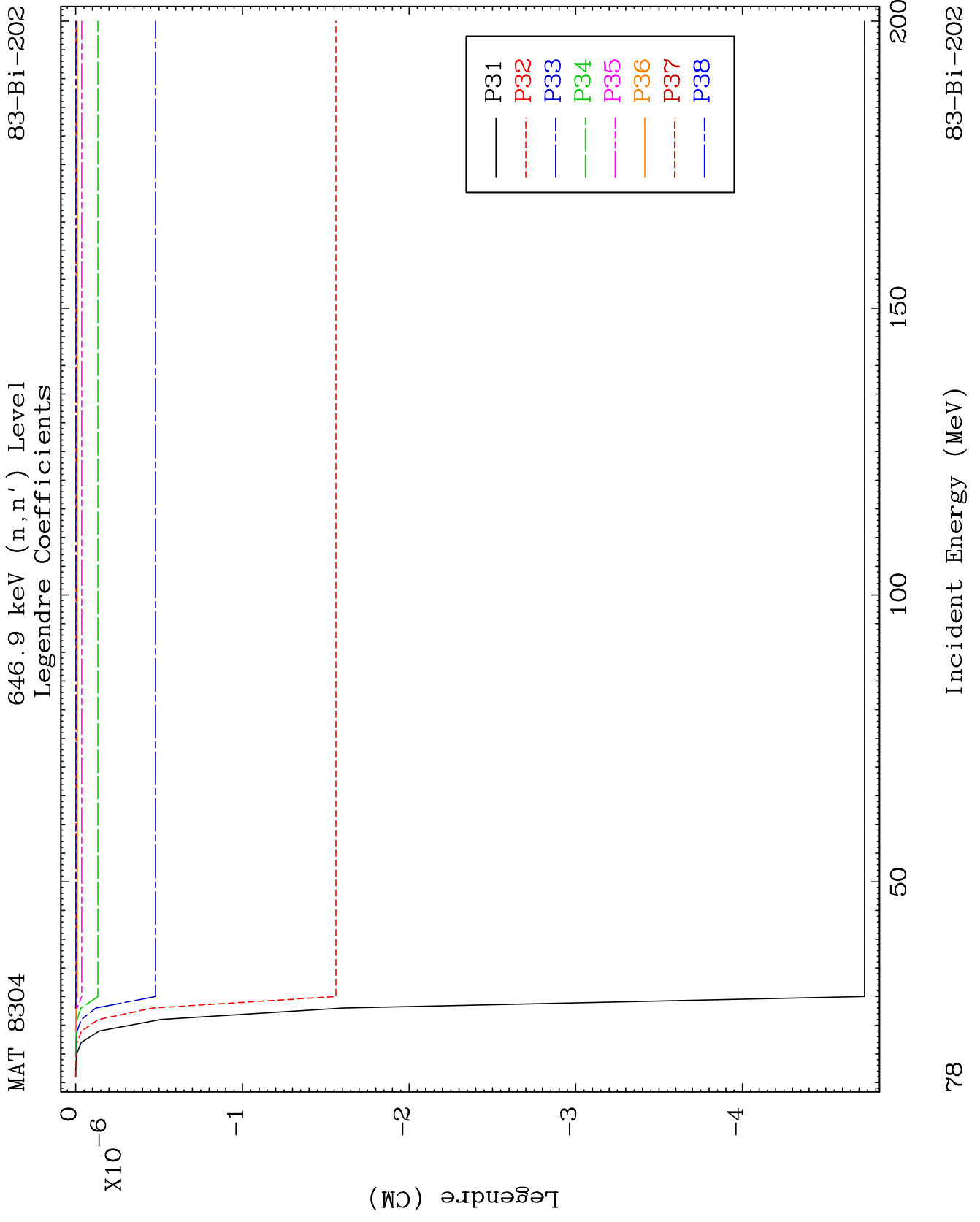
83-Bi-202

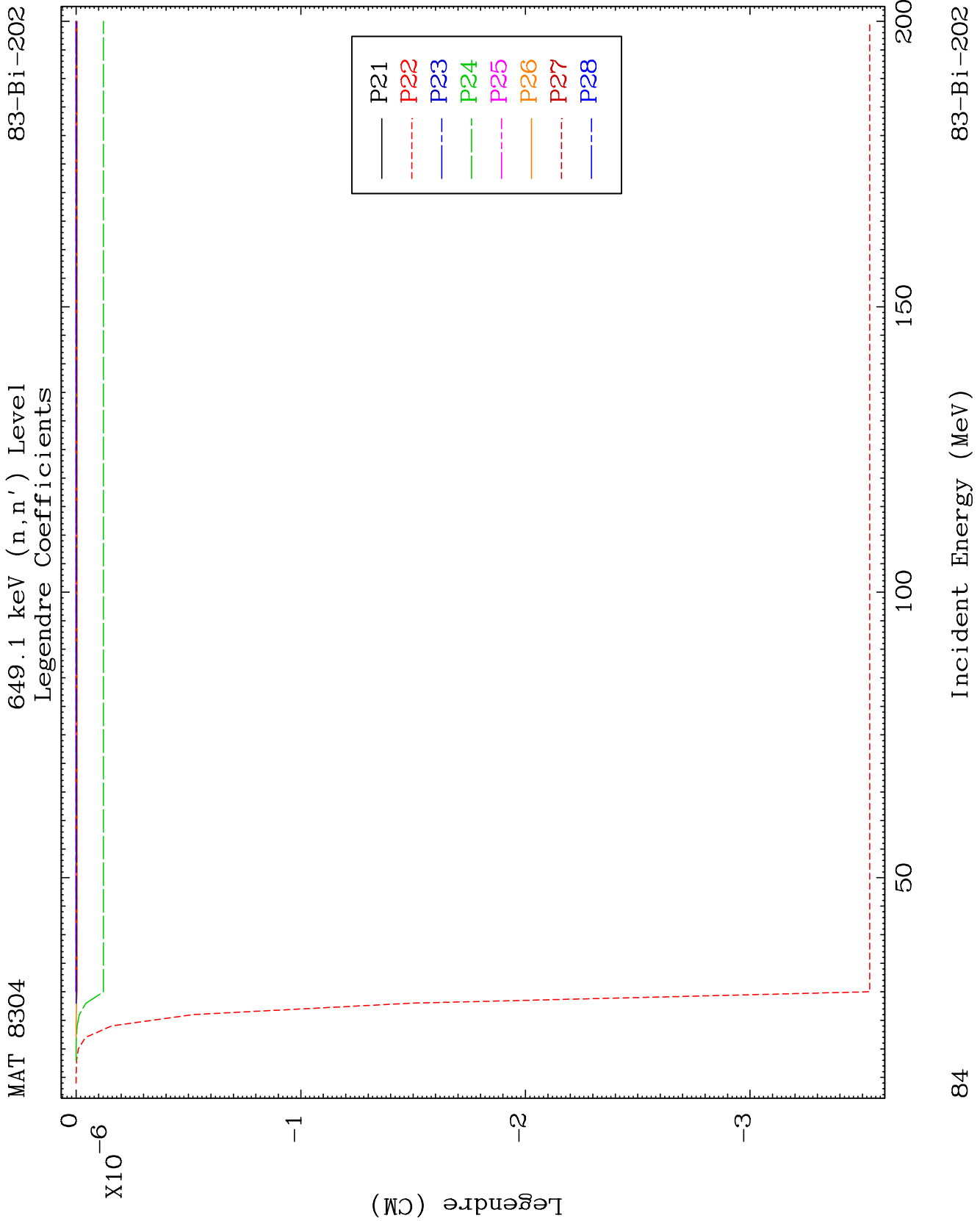


77

Incident Energy (MeV)

83-Bi-202

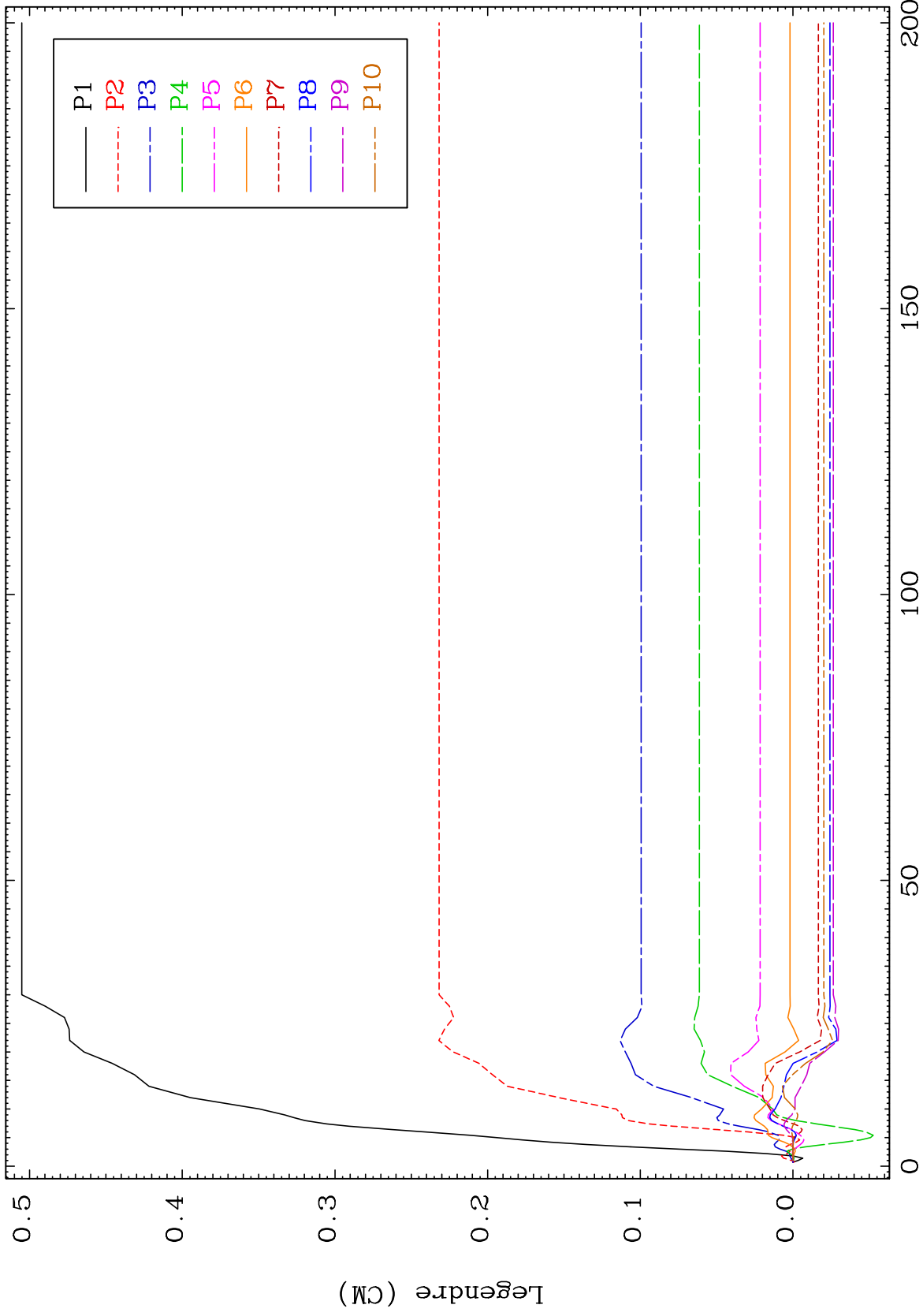




MAT 8304

651.9 keV (n,n') Level
Legendre Coefficients

83-Bi-202



88

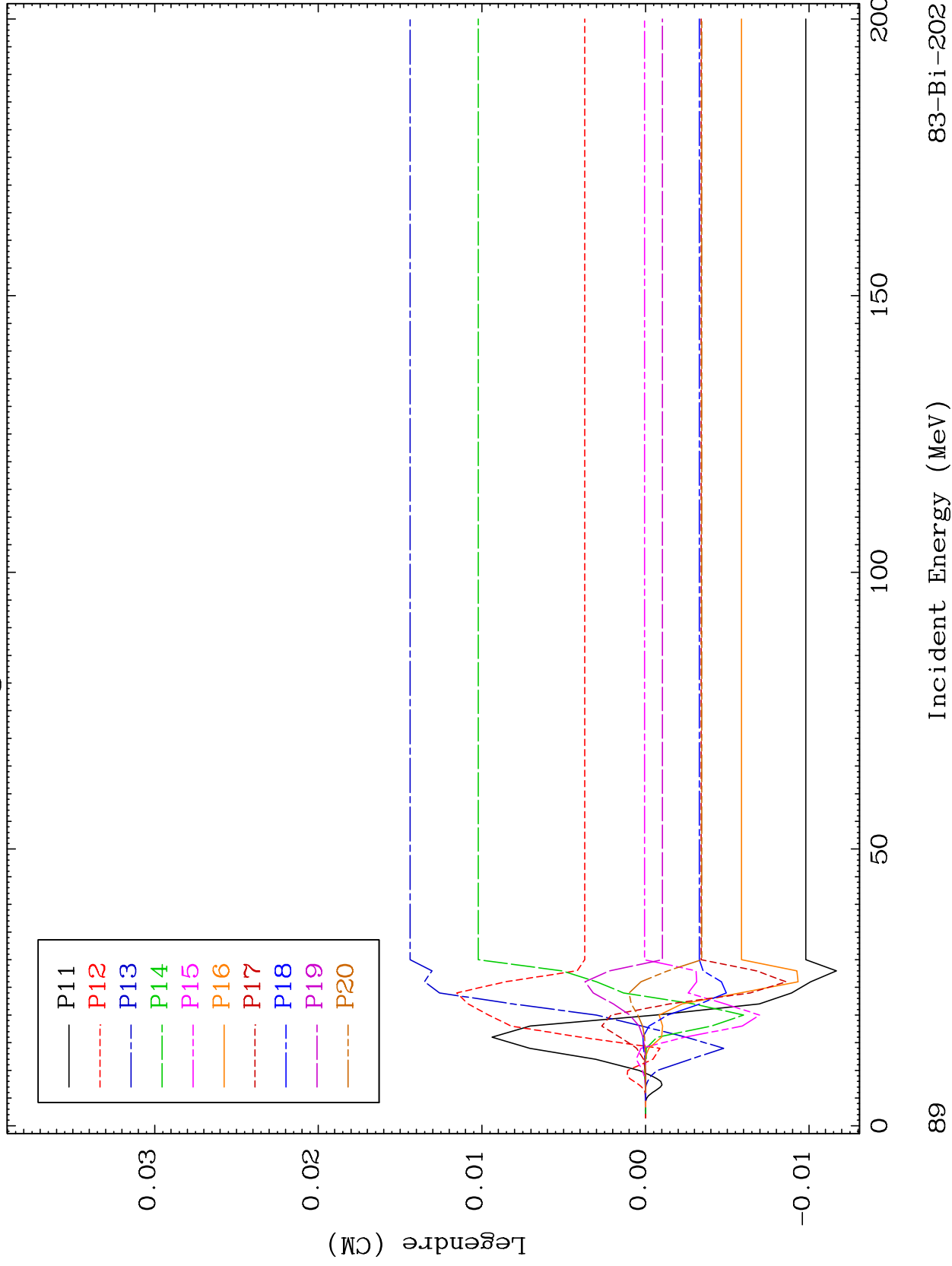
Incident Energy (MeV)

83-Bi-202

MAT 8304

651.9 keV (n,n') Level
Legendre Coefficients

83-Bi-202

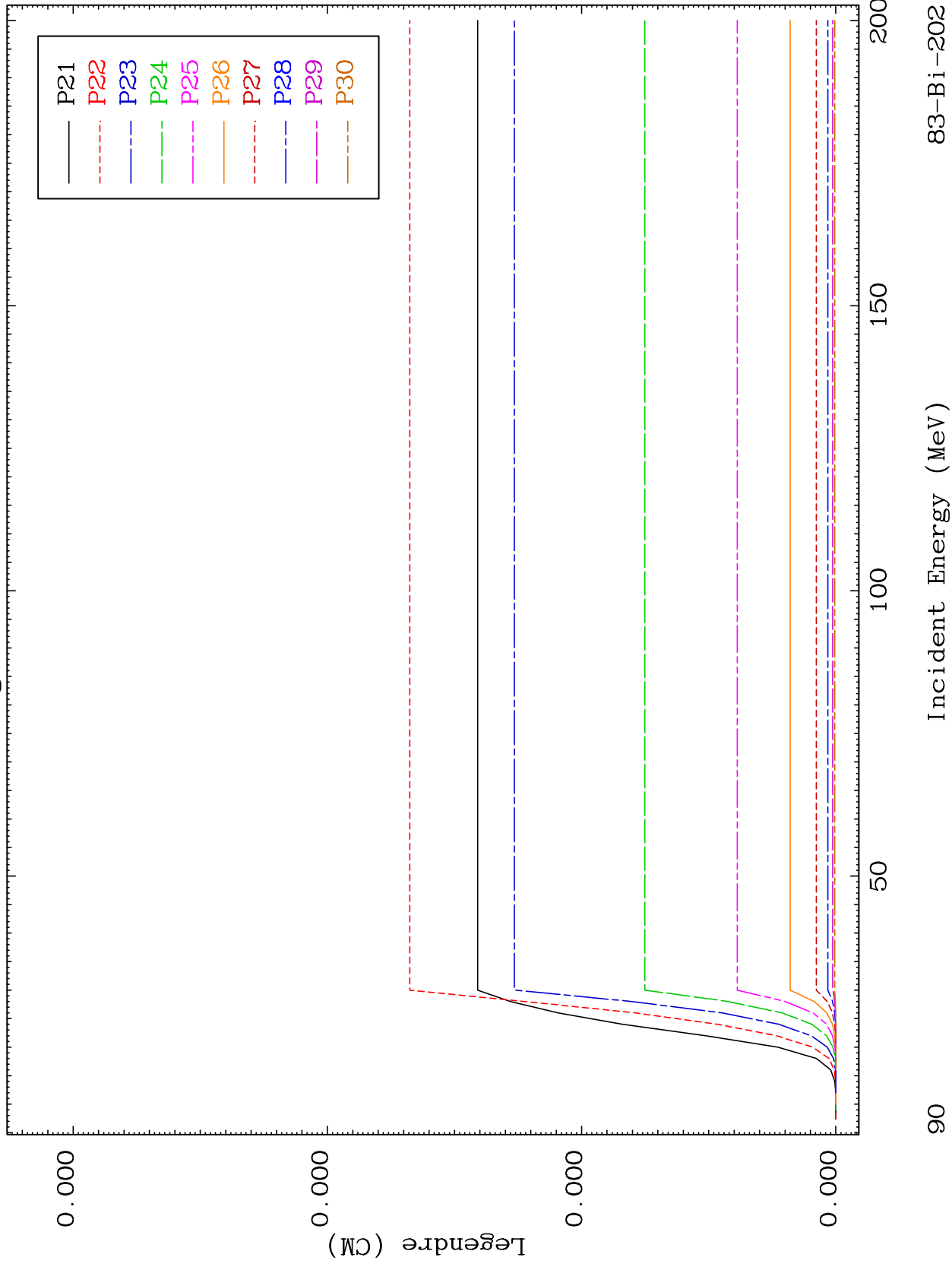


89

MAT 8304

651.9 keV (n,n') Level
Legendre Coefficients

83-Bi-202



90

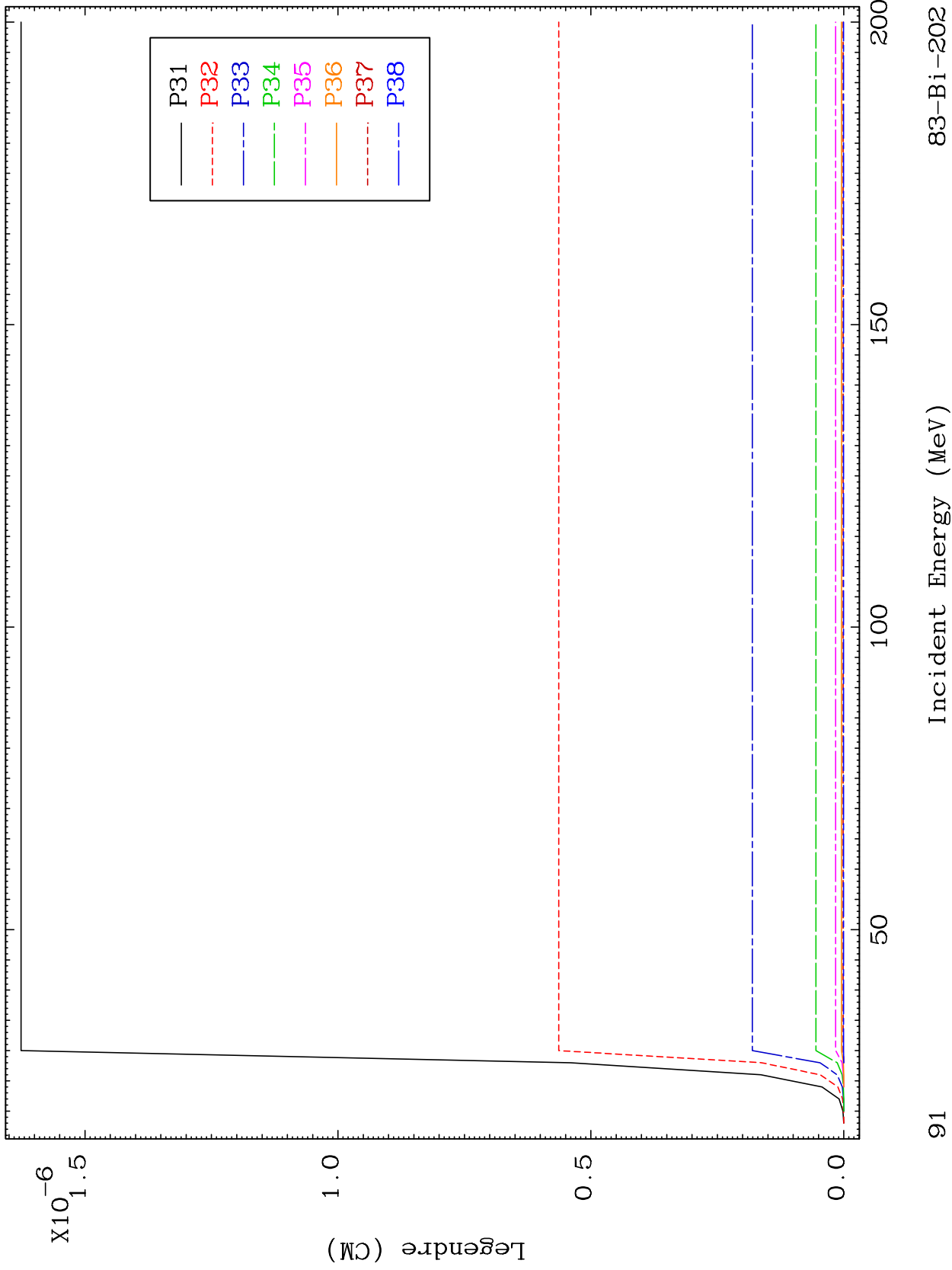
Incident Energy (MeV)

83-Bi-202

MAT 8304

651.9 keV (n,n') Level
Legendre Coefficients

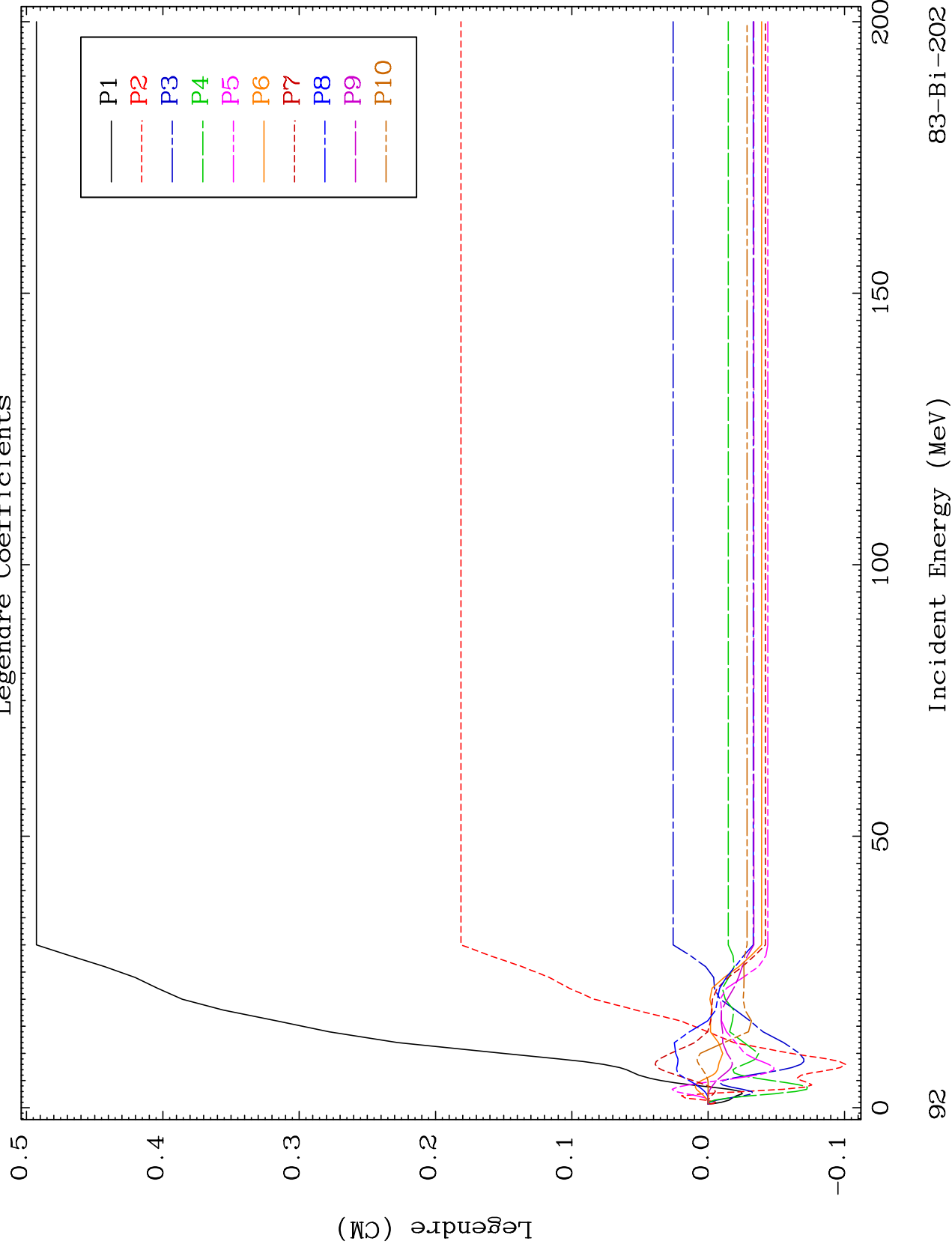
83-Bi-202



MAT 8304

653.8 keV (n,n') Level
Legendre Coefficients

83-Bi-202



83-Bi-202

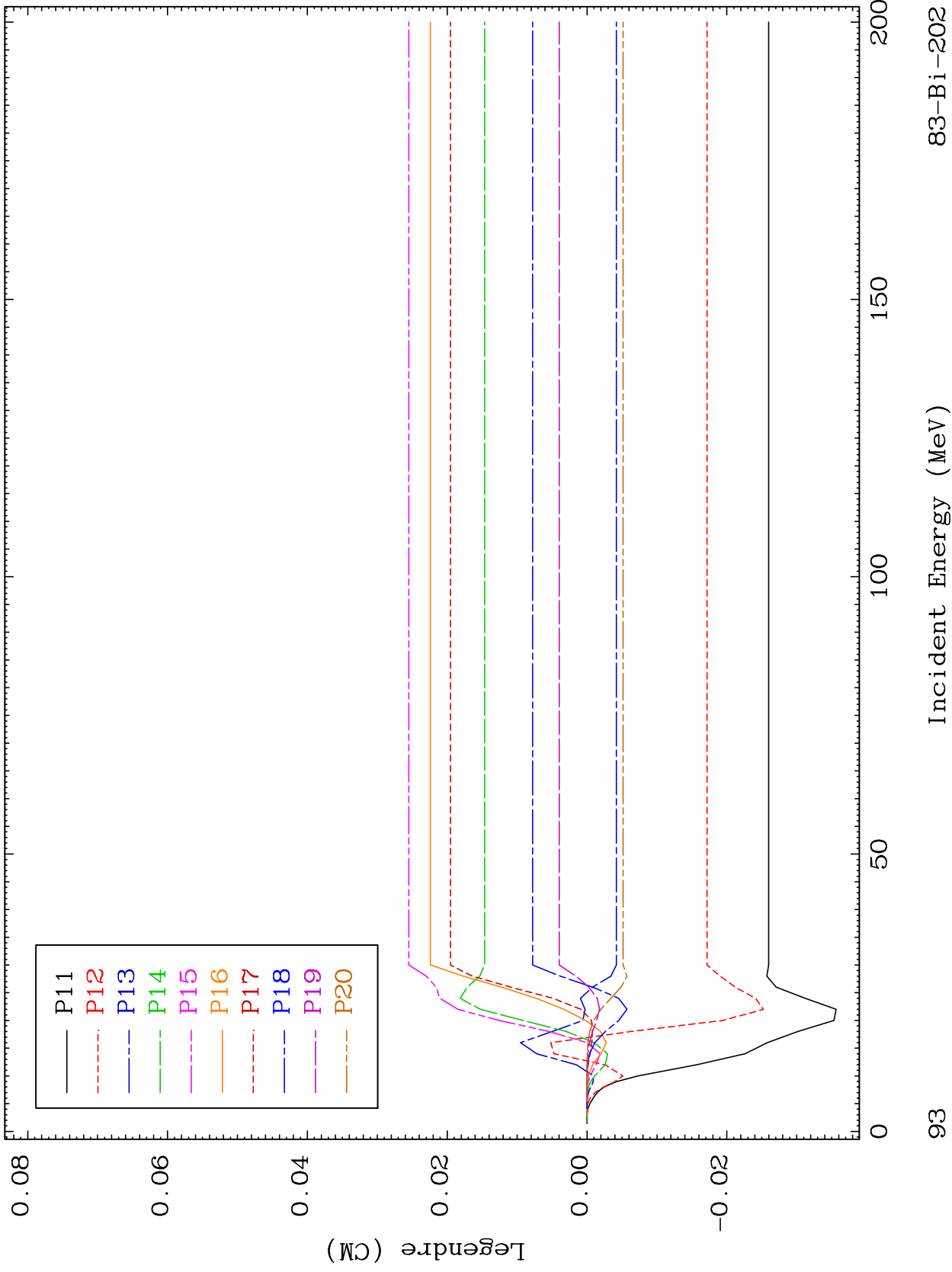
Incident Energy (MeV)

92

MAT 8304

653.8 keV (n,n') Level
Legendre Coefficients

83-Bi-202



93

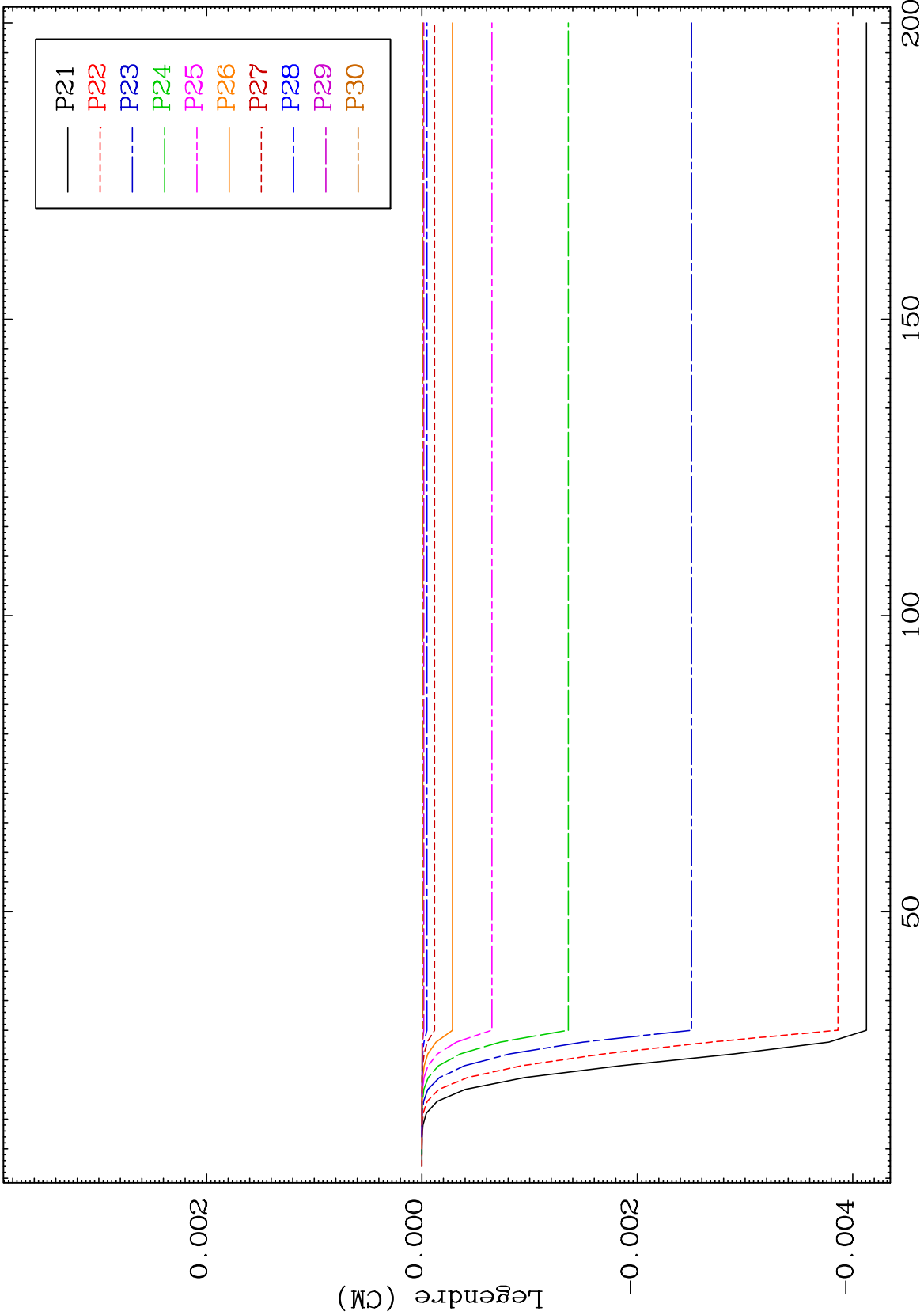
Incident Energy (MeV)

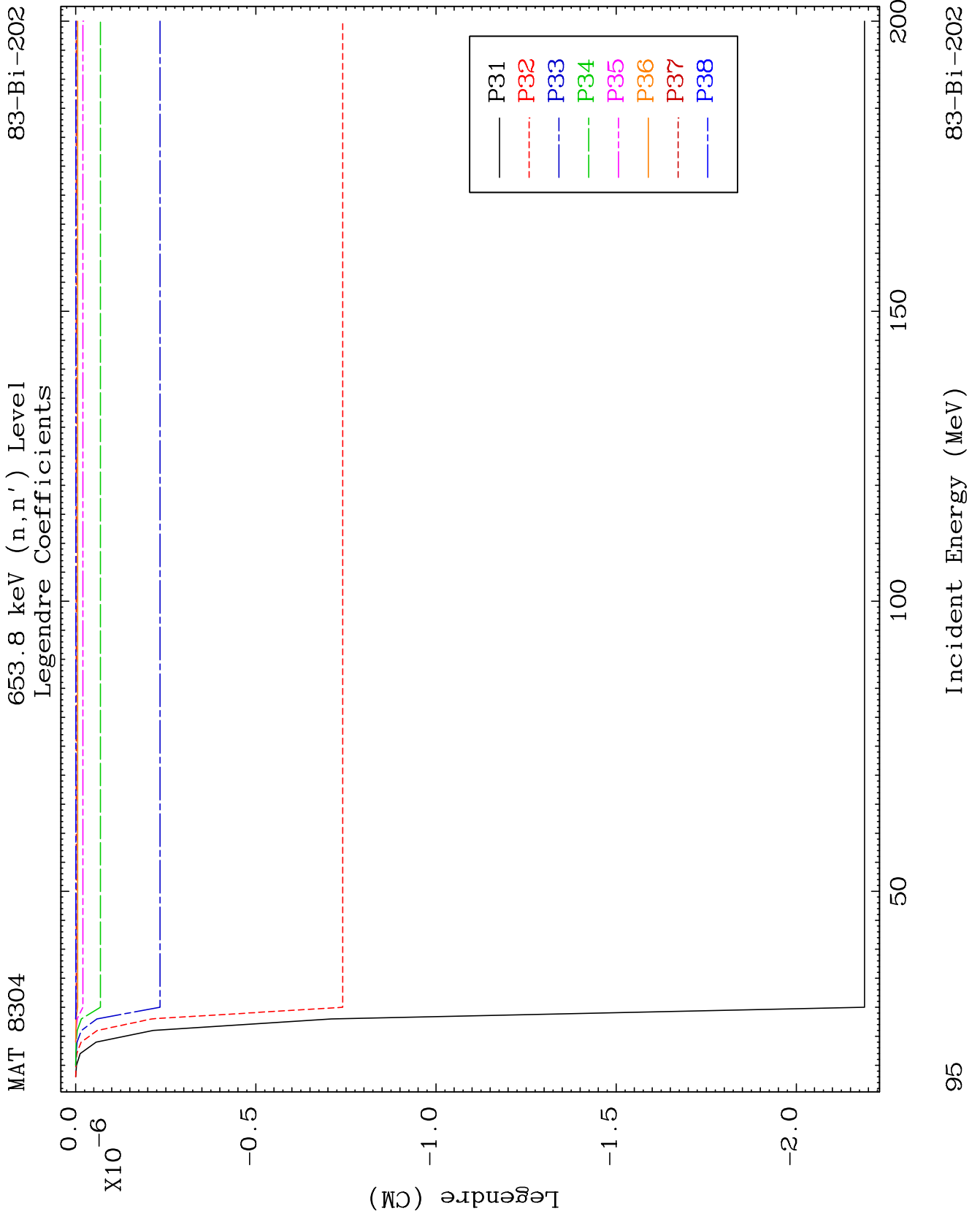
83-Bi-202

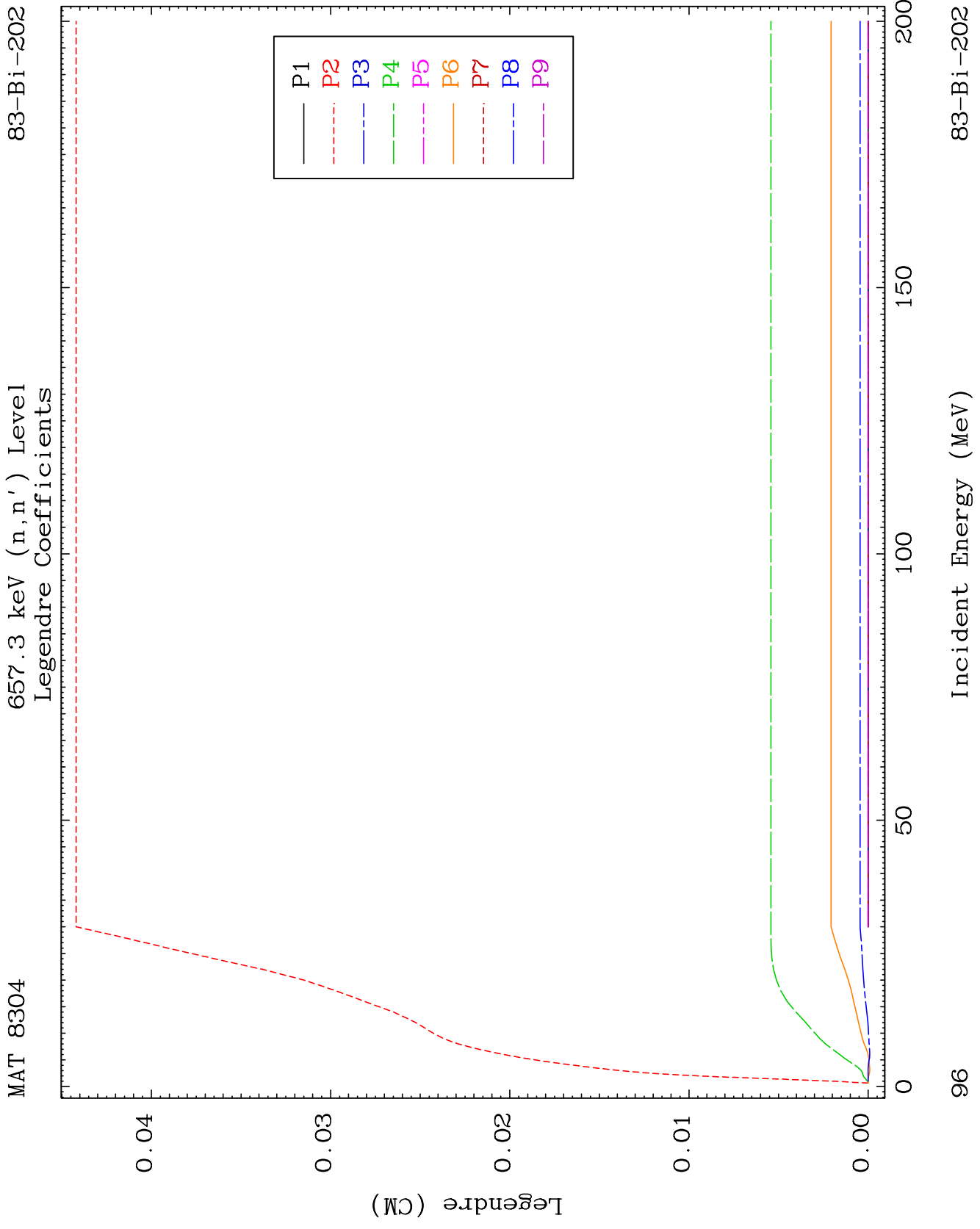
MAT 8304

653.8 keV (n,n') Level
Legendre Coefficients

83-Bi-202



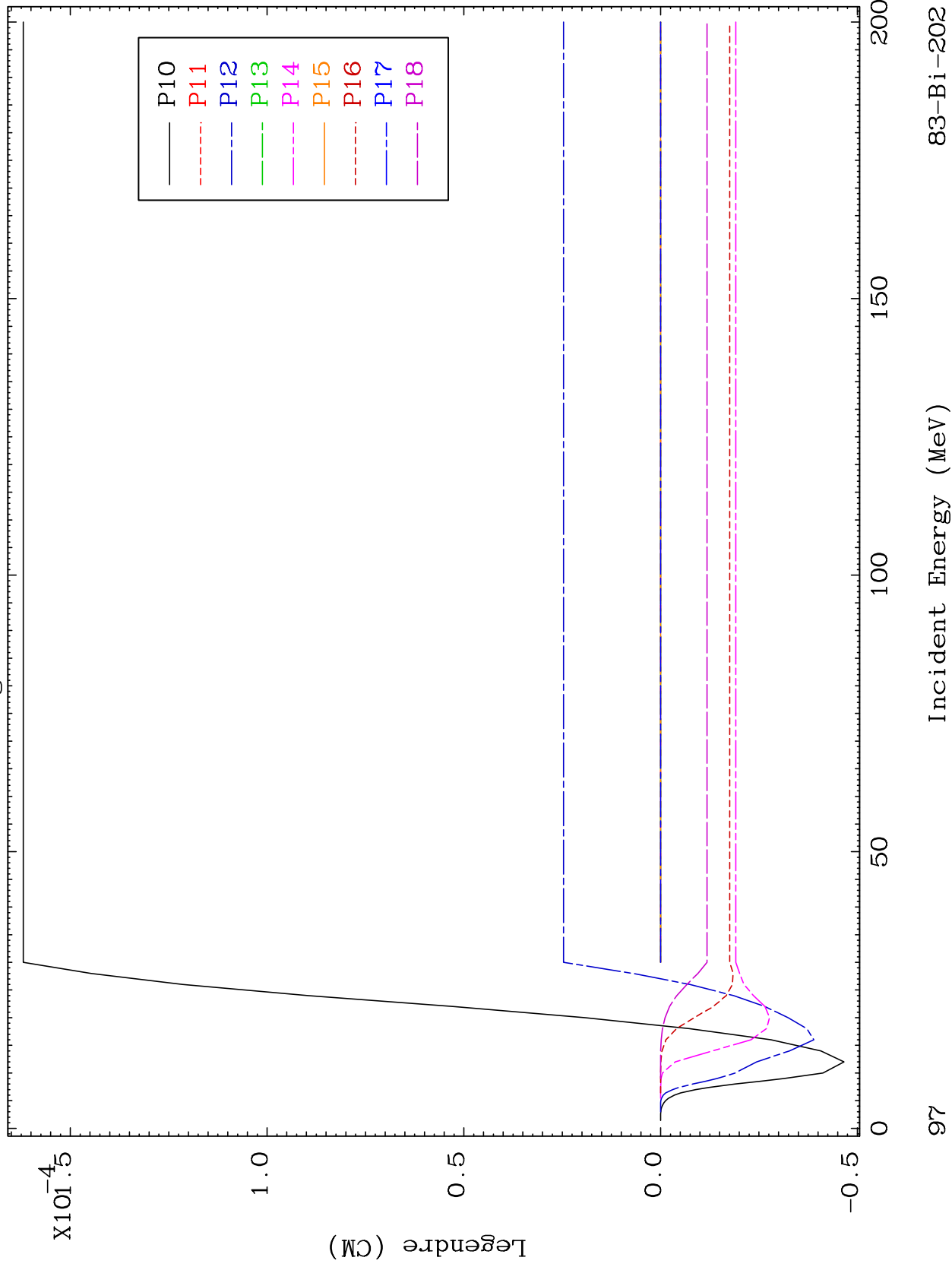




MAT 8304

657.3 keV (n,n') Level
Legendre Coefficients

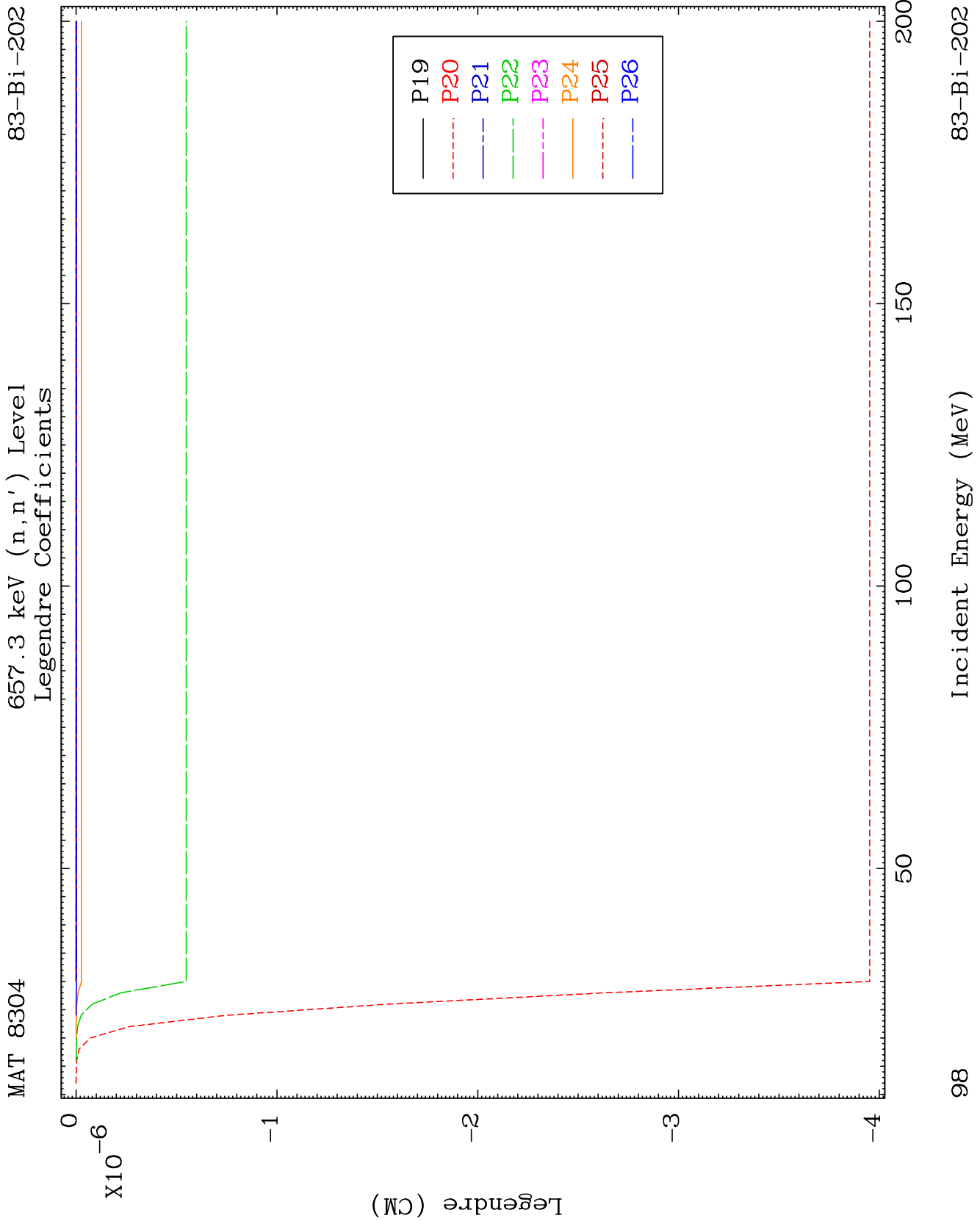
83-Bi-202



97

Incident Energy (MeV)

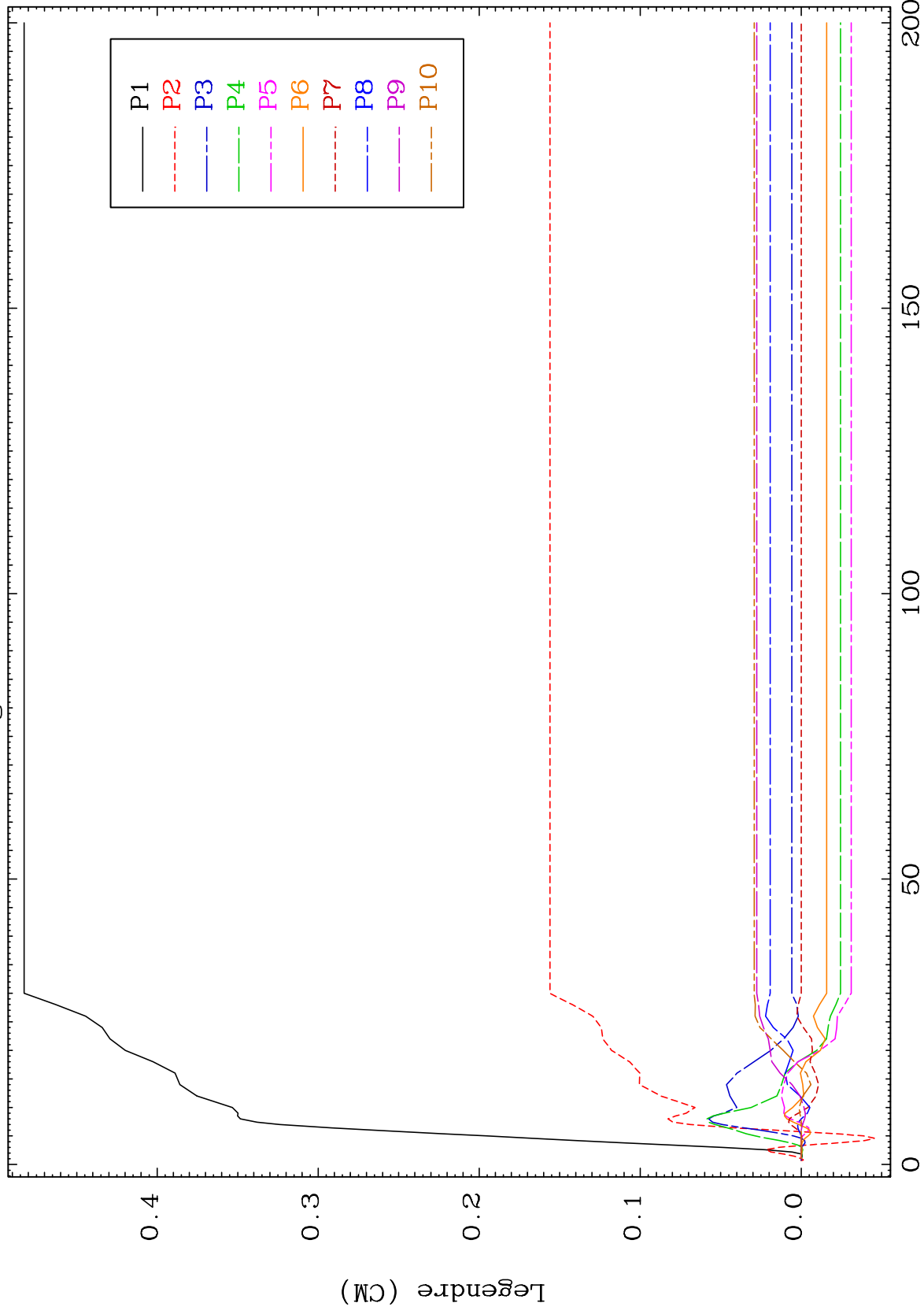
83-Bi-202



MAT 8304

659.7 keV (n,n') Level
Legendre Coefficients

83-Bi-202



99

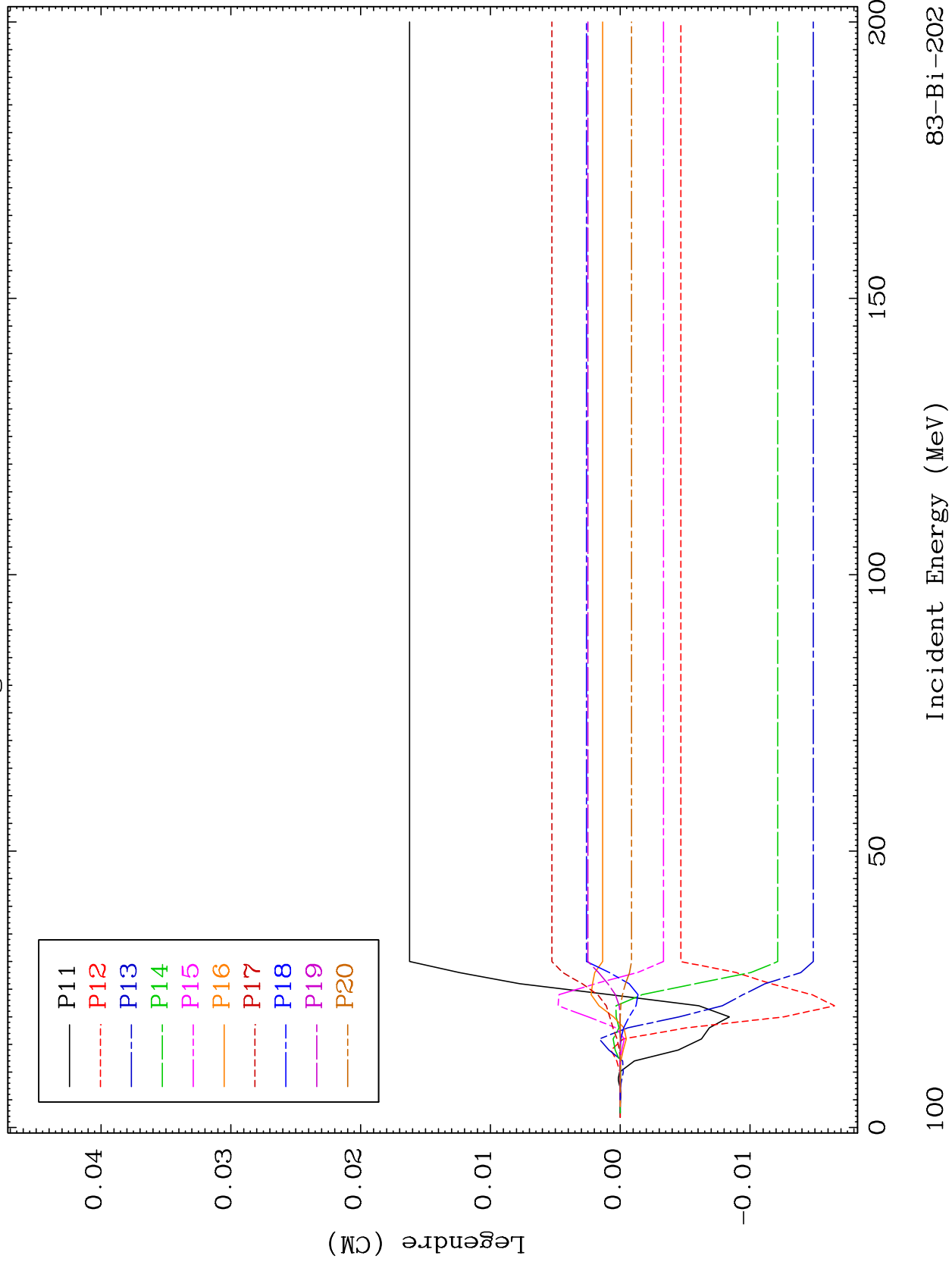
Incident Energy (MeV)

83-Bi-202

MAT 8304

659.7 keV (n,n') Level
Legendre Coefficients

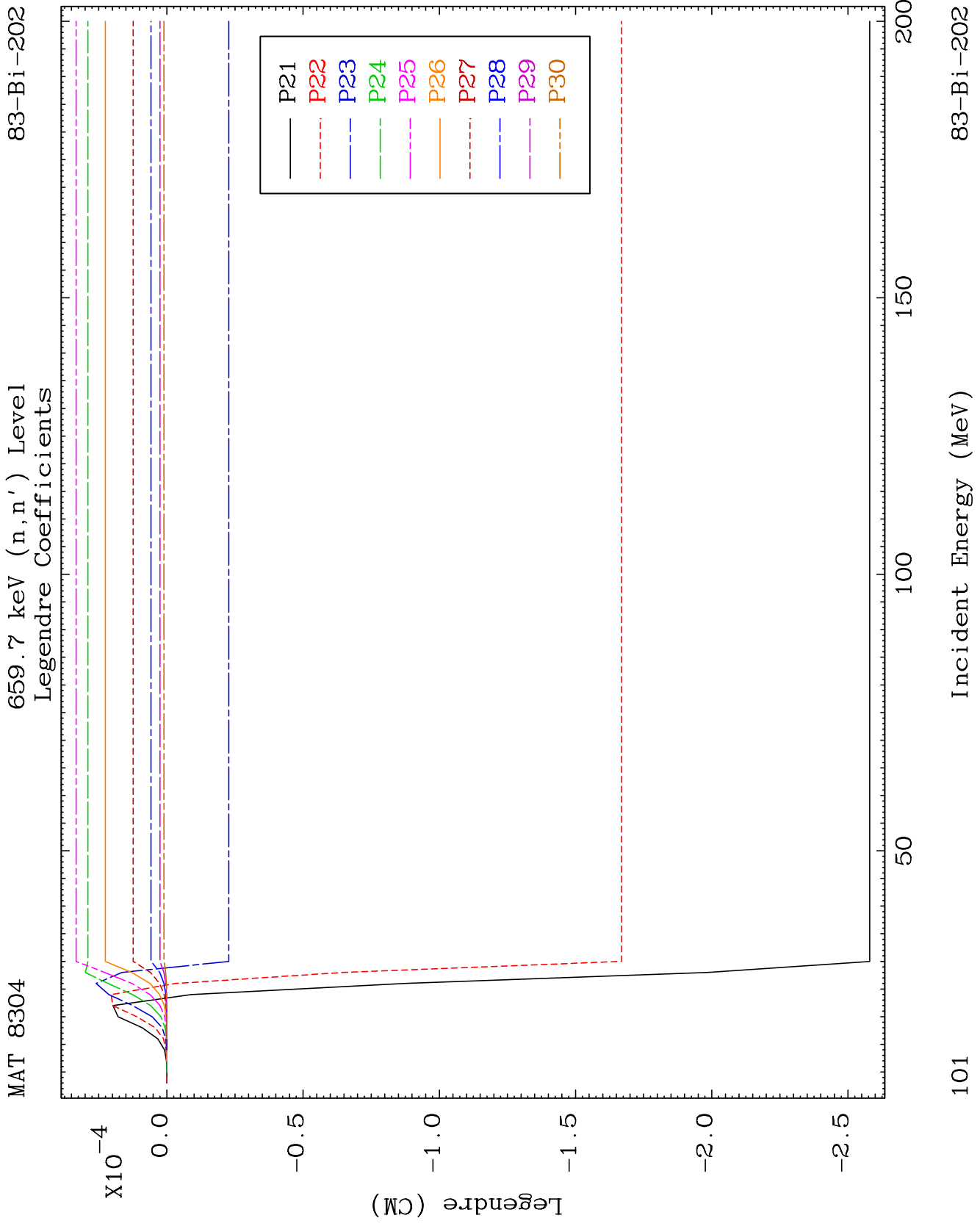
83-Bi-202



83-Bi-202

Incident Energy (MeV)

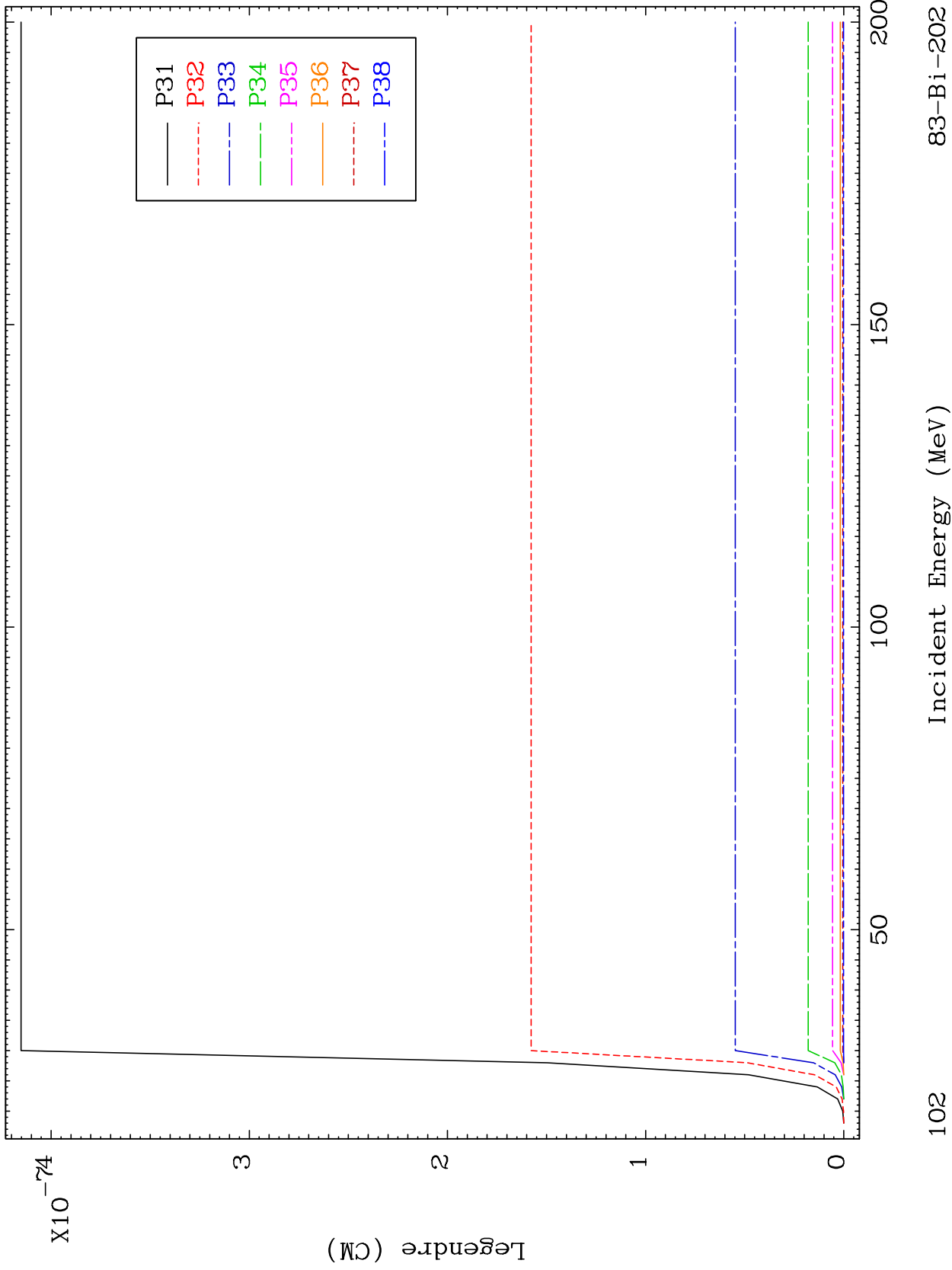
100



MAT 8304

659.7 keV (n,n') Level
Legendre Coefficients

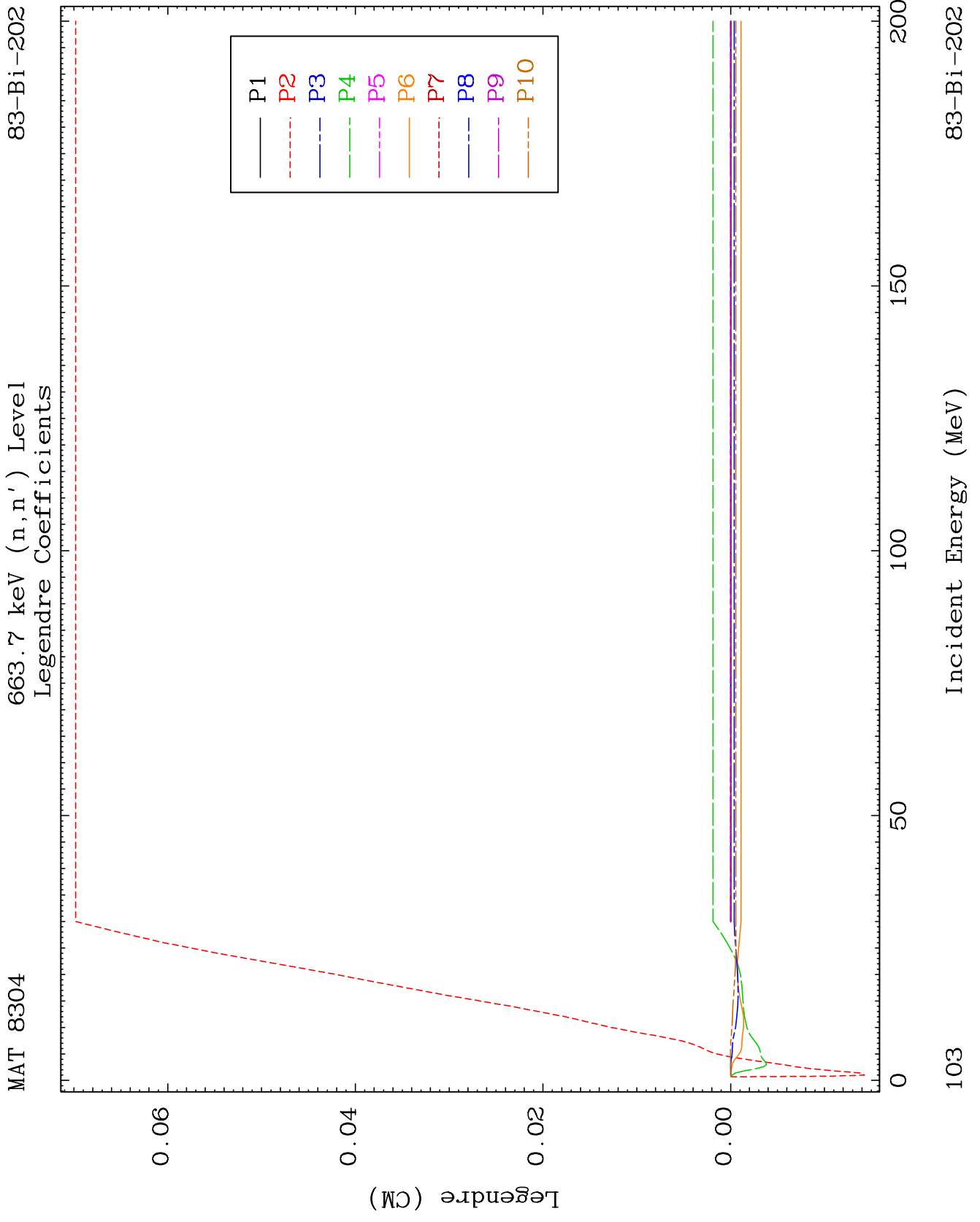
83-Bi-202



102

Incident Energy (MeV)

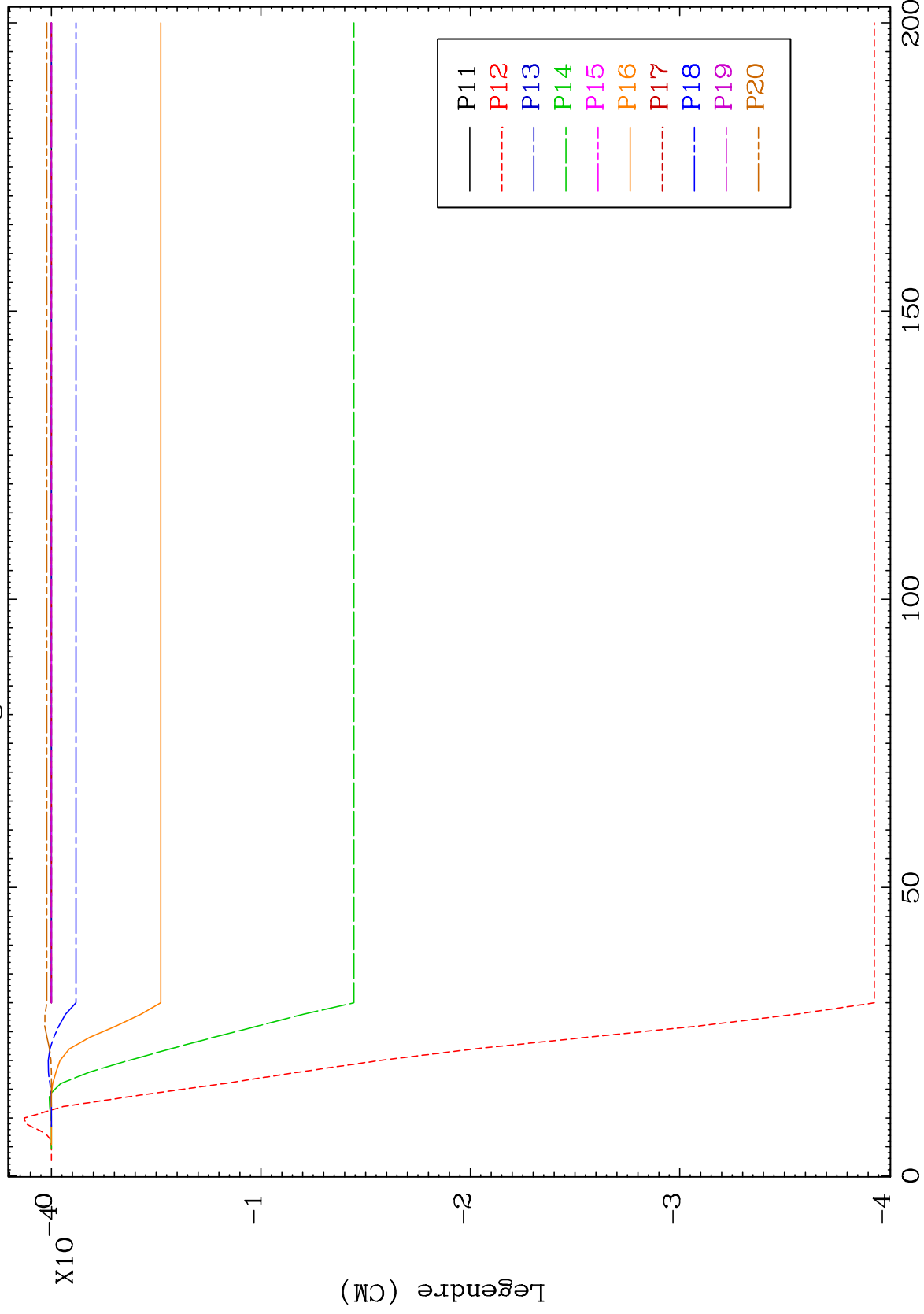
83-Bi-202



MAT 8304

663.7 keV (n,n') Level
Legendre Coefficients

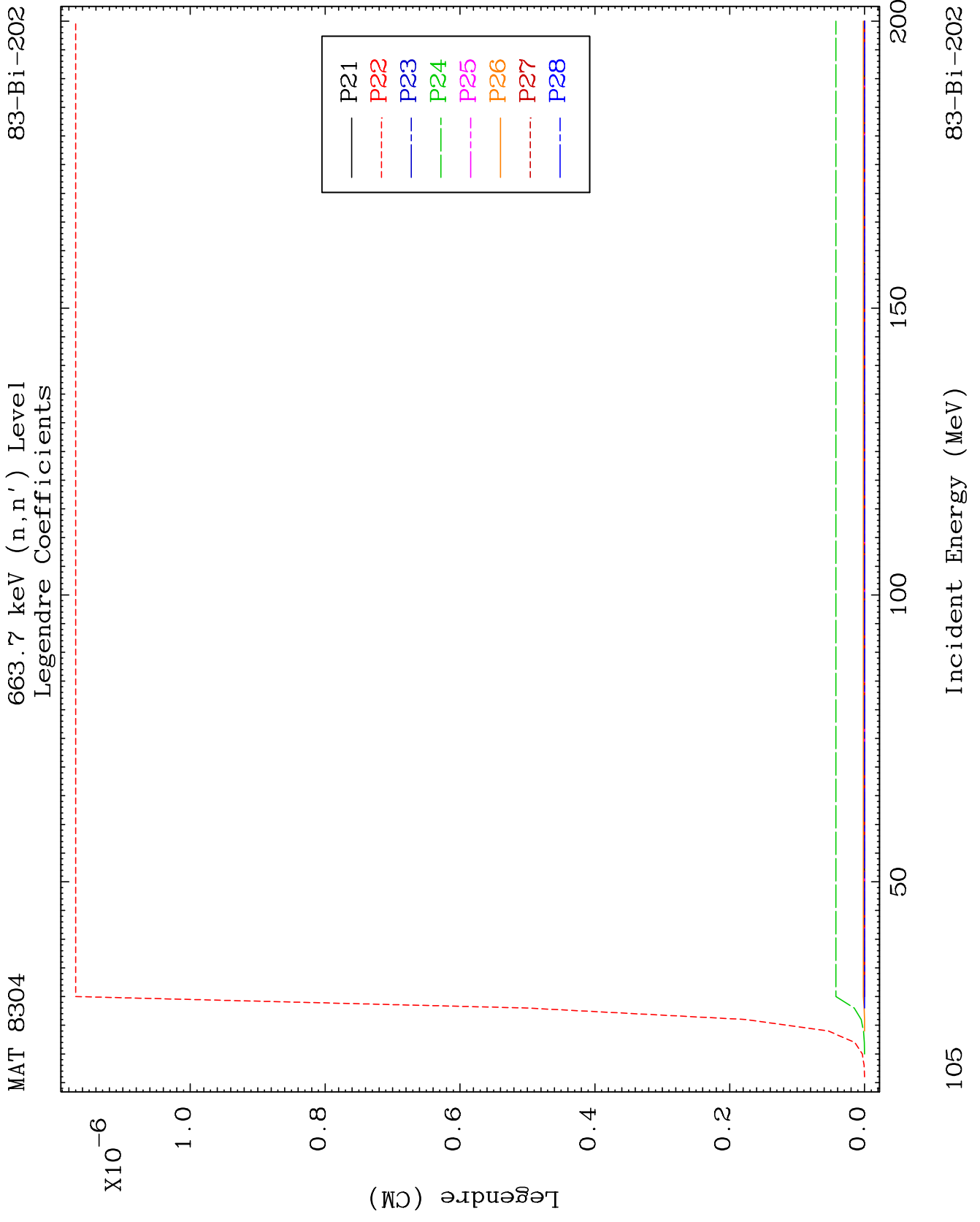
83-Bi-202



104

Incident Energy (MeV)

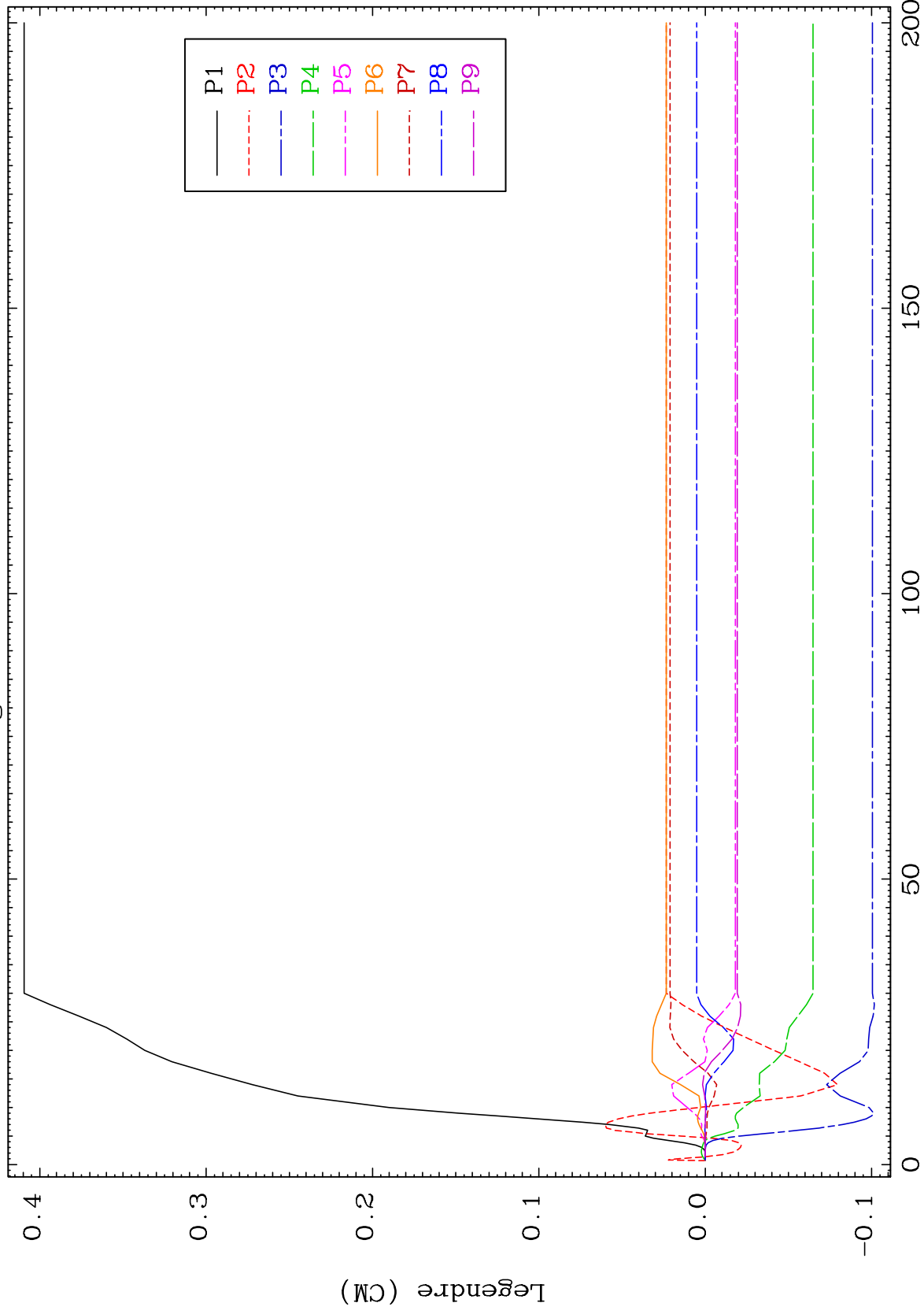
83-Bi-202



MAT 8304

666.7 keV (n,n') Level
Legendre Coefficients

83-Bi-202



83-Bi-202

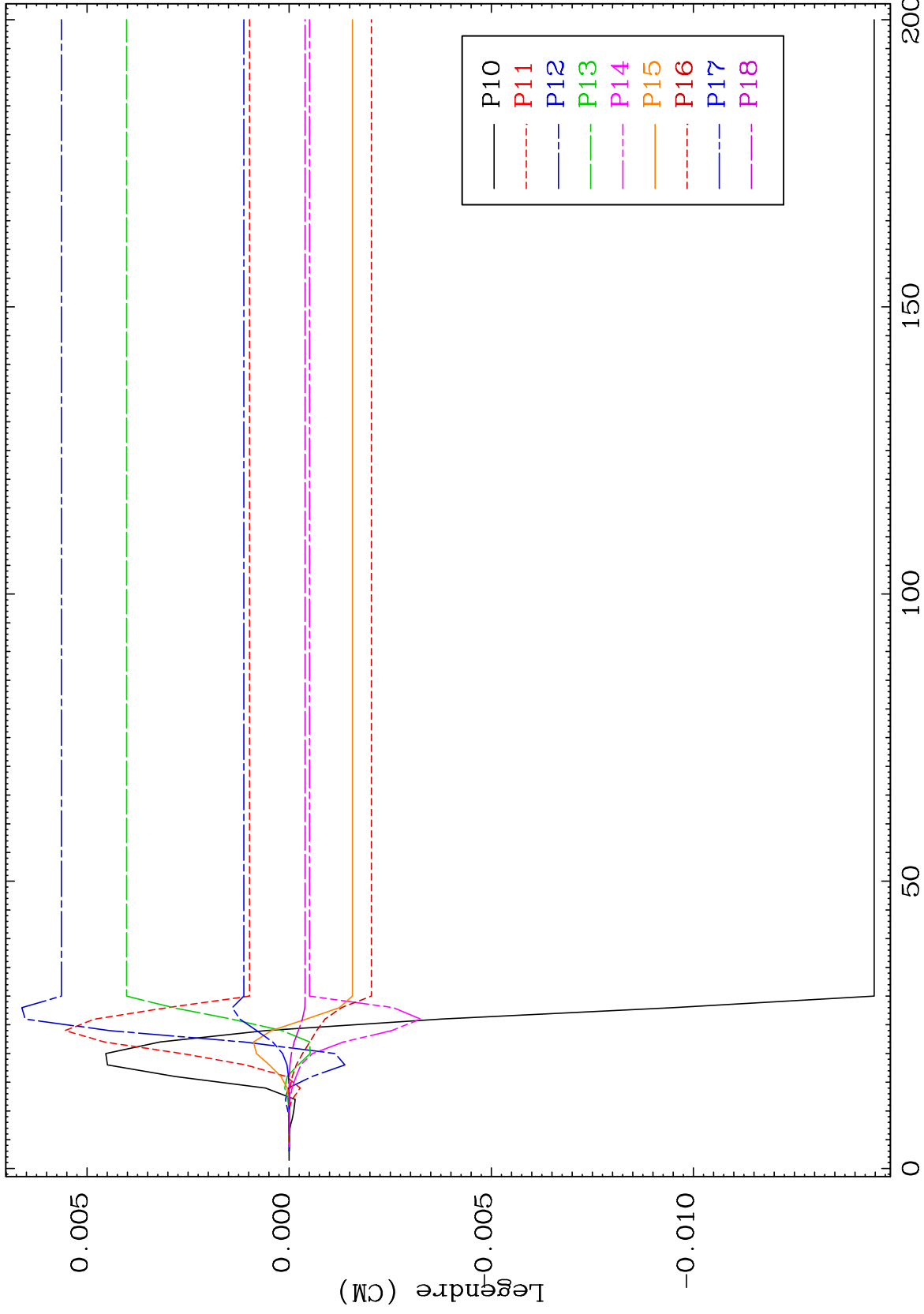
Incident Energy (MeV)

106

MAT 8304

666.7 keV (n,n') Level
Legendre Coefficients

83-Bi-202



107

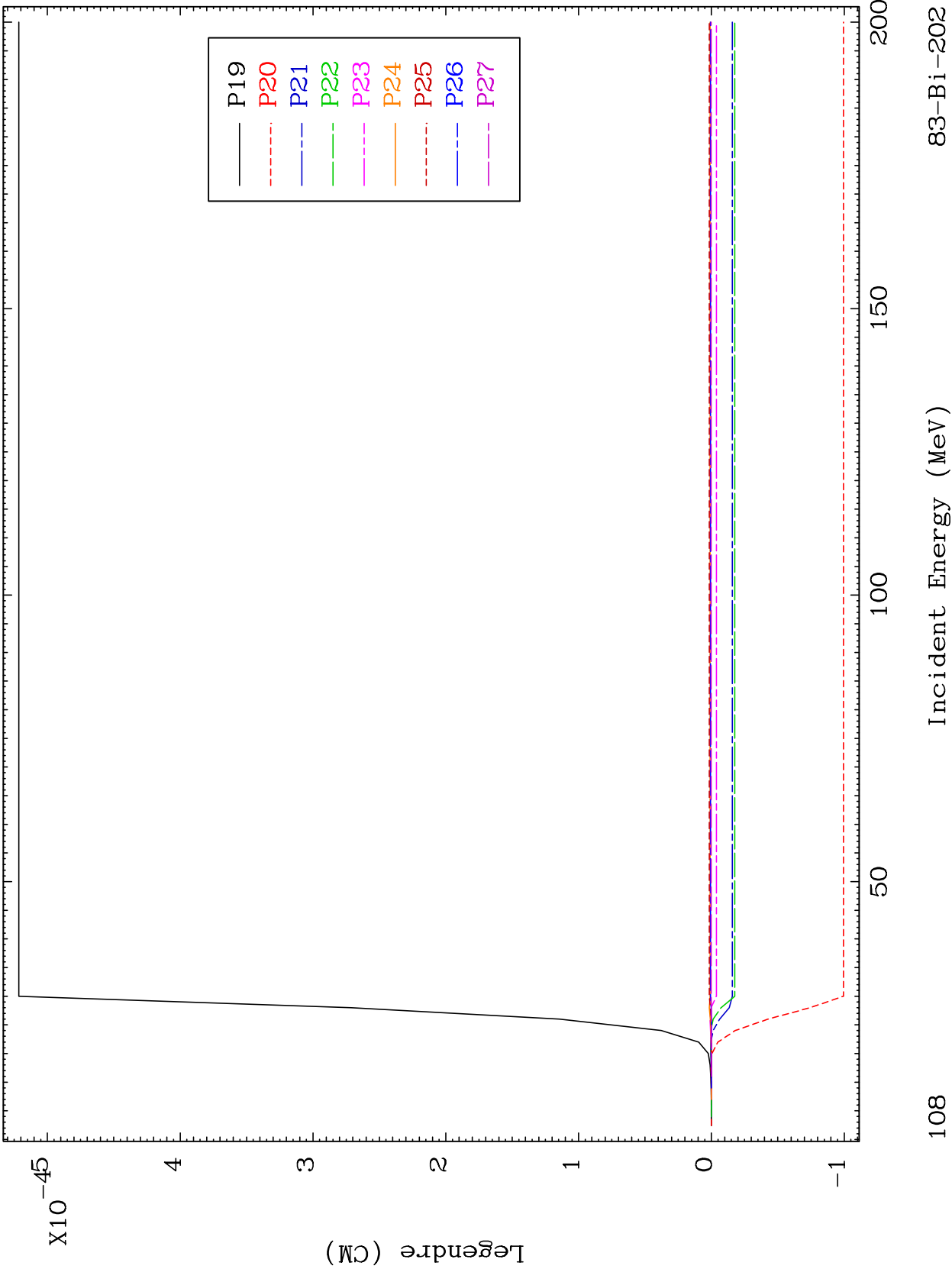
Incident Energy (MeV)

83-Bi-202

MAT 8304

666.7 keV (n,n') Level
Legendre Coefficients

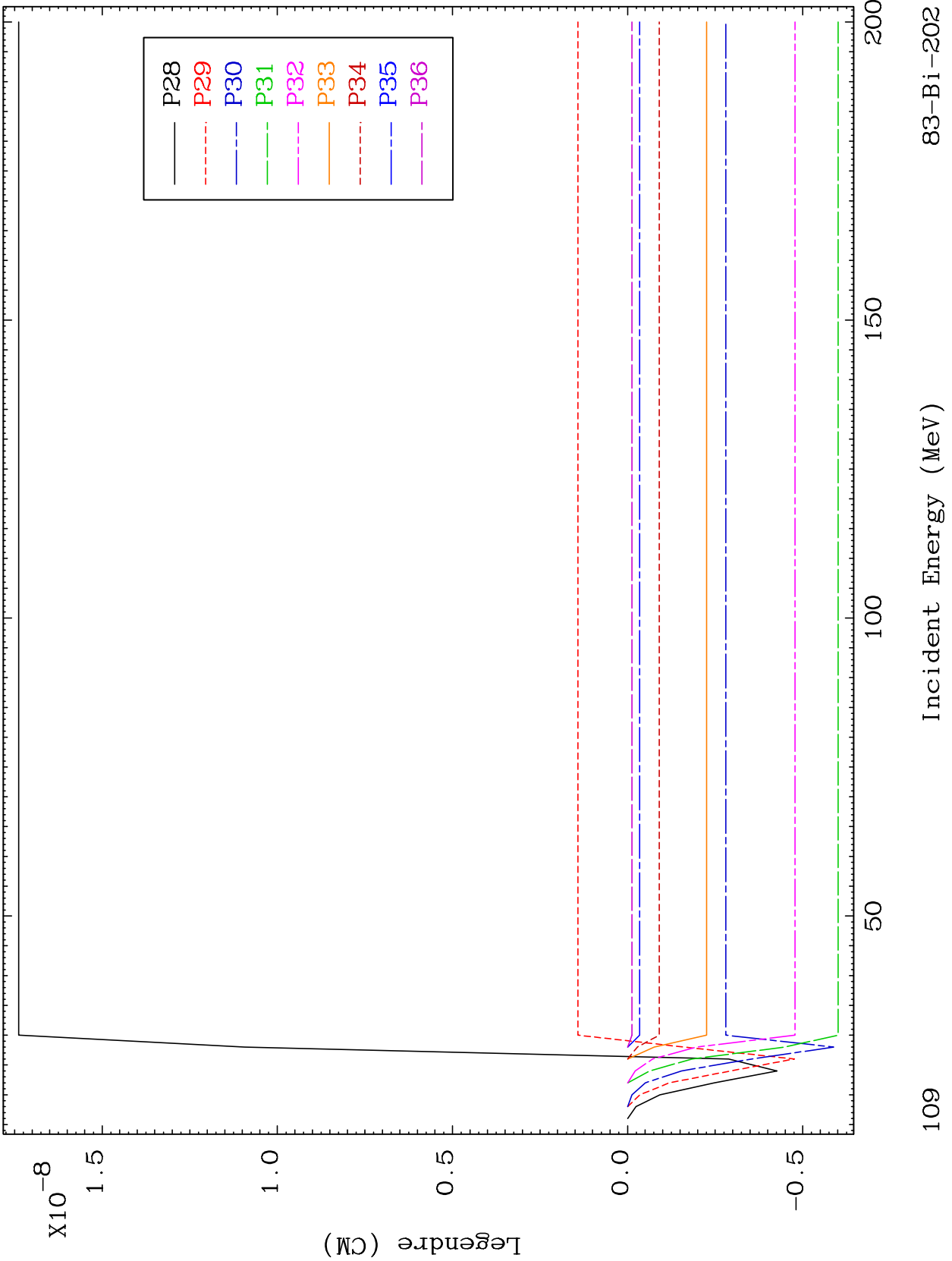
83-Bi-202



MAT 8304

666.7 keV (n,n') Level
Legendre Coefficients

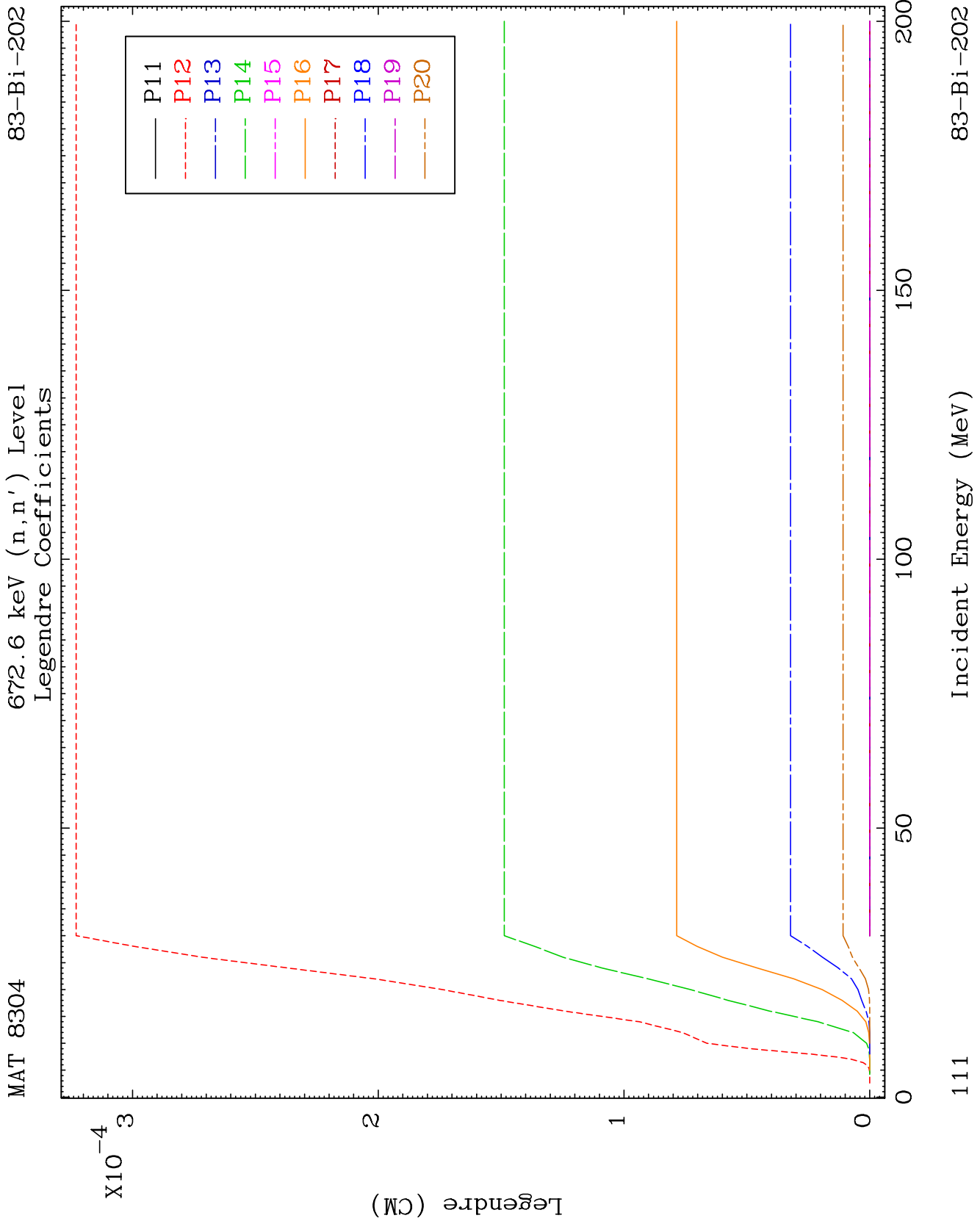
83-Bi-202

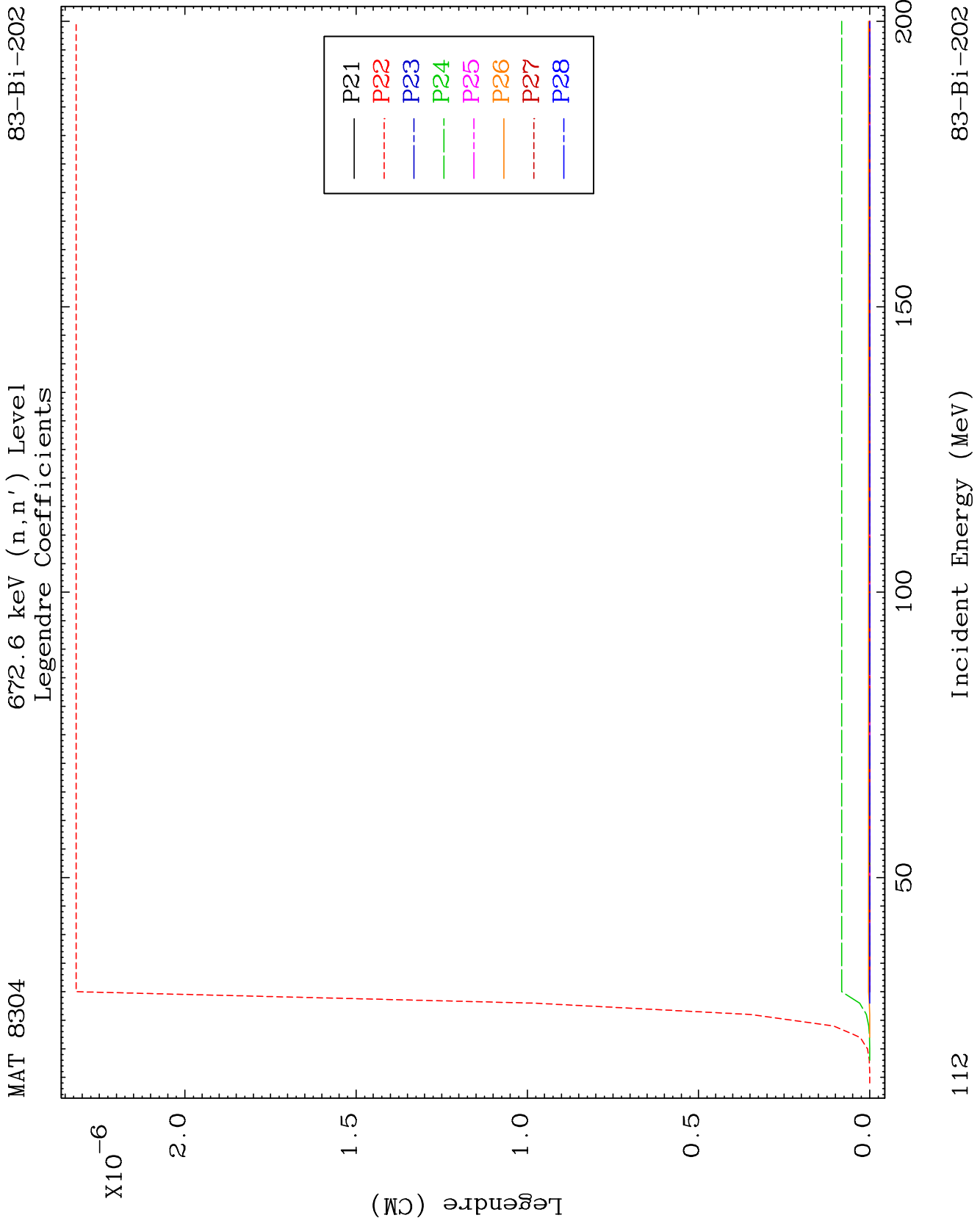


109

Incident Energy (MeV)

83-Bi-202

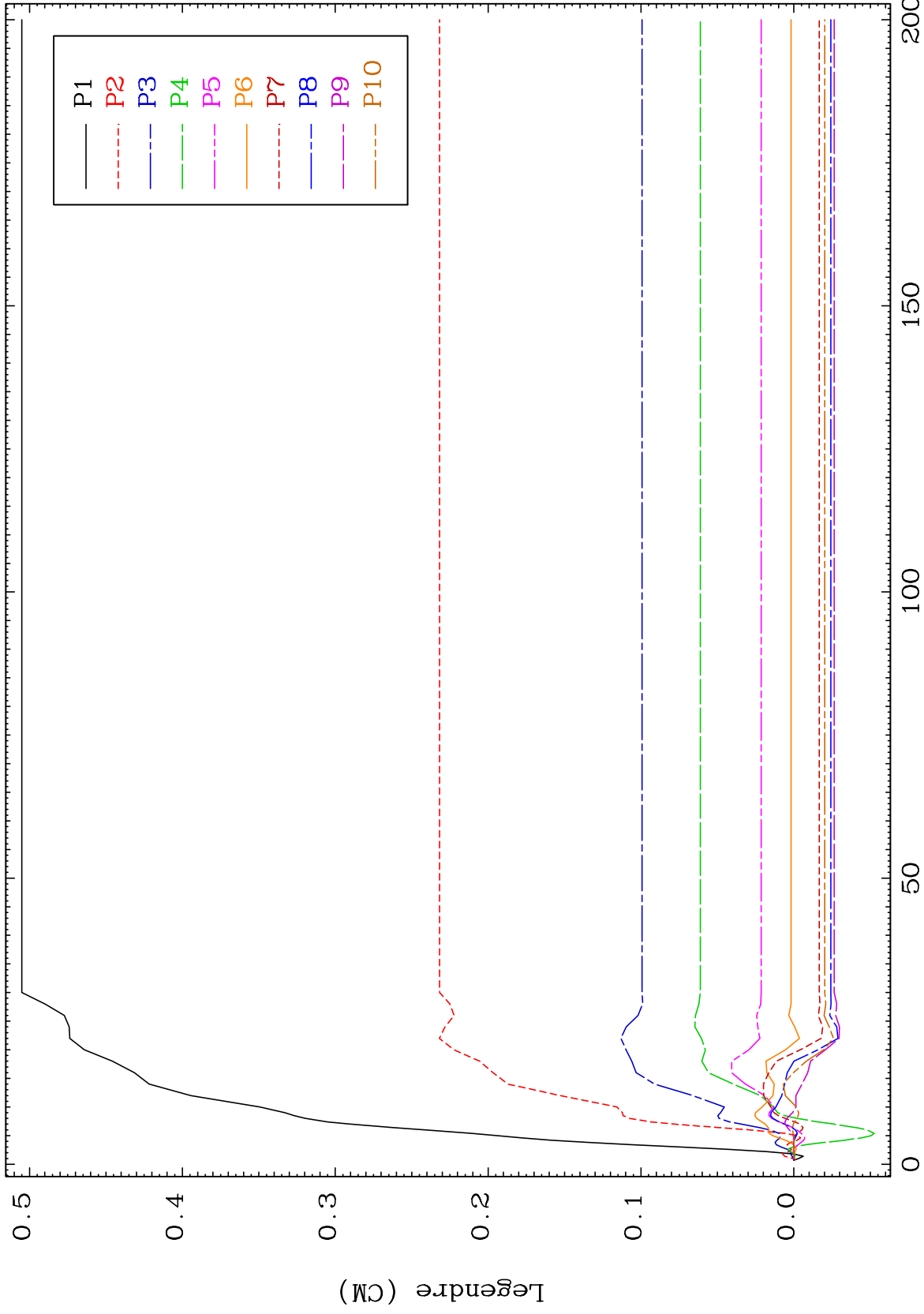




MAT 8304

674.3 keV (n,n') Level
Legendre Coefficients

83-Bi-202



113

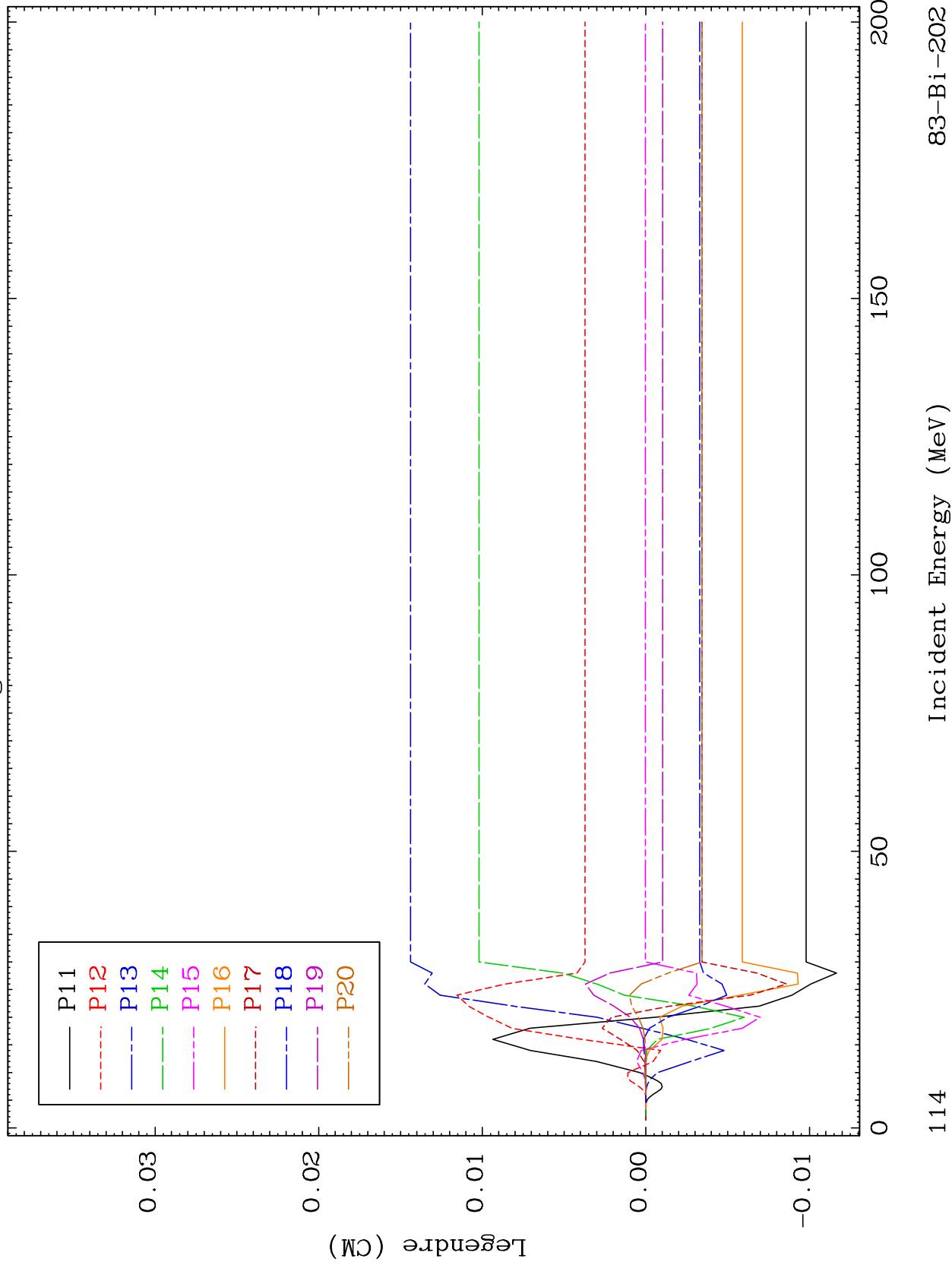
Incident Energy (MeV)

83-Bi-202

MAT 8304

674.3 keV (n,n') Level
Legendre Coefficients

83-Bi-202



114

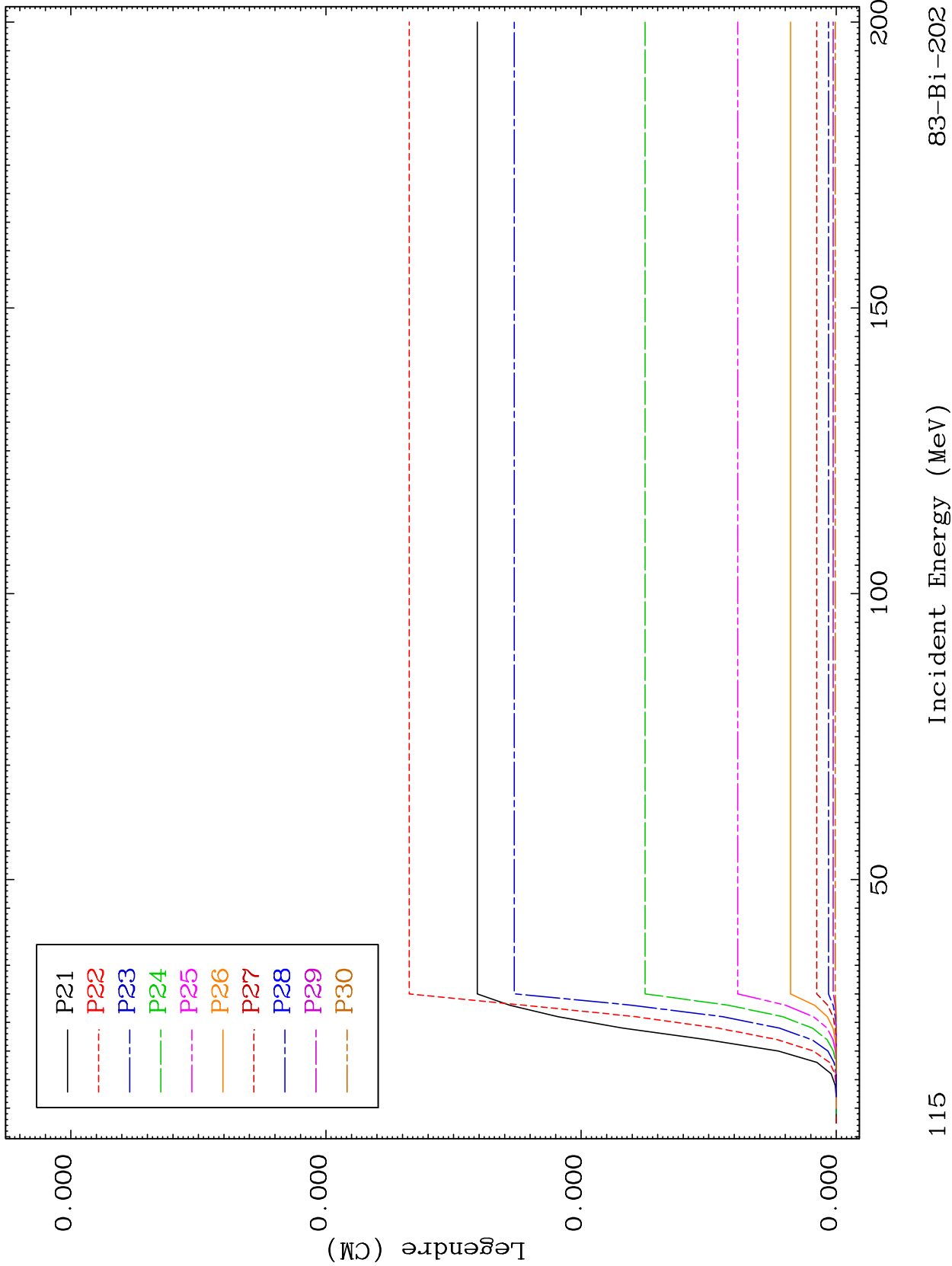
Incident Energy (MeV)

83-Bi-202

MAT 8304

674.3 keV (n,n') Level
Legendre Coefficients

83-Bi-202



115

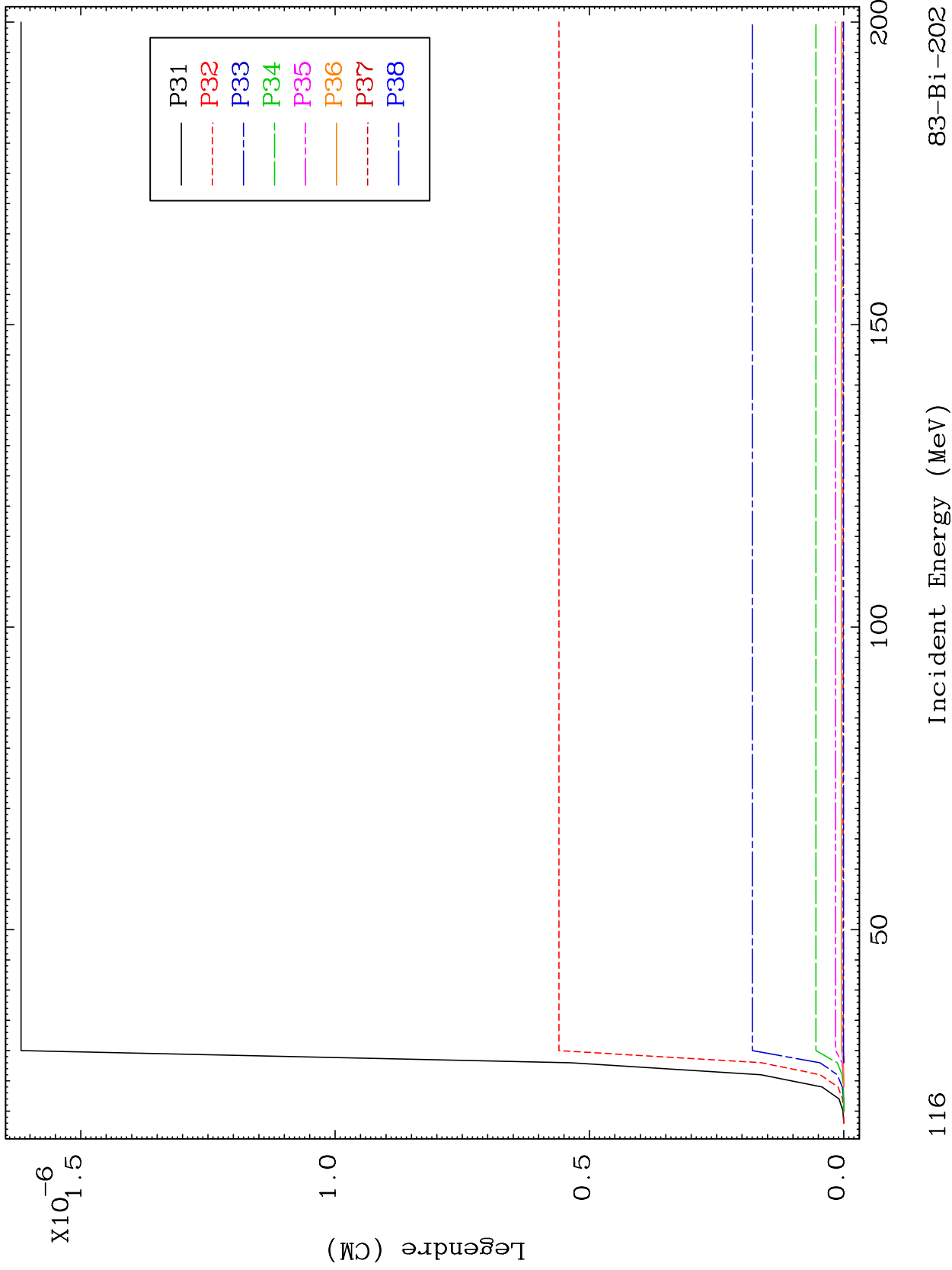
Incident Energy (MeV)

83-Bi-202

MAT 8304

674.3 keV (n,n') Level
Legendre Coefficients

83-Bi-202



116

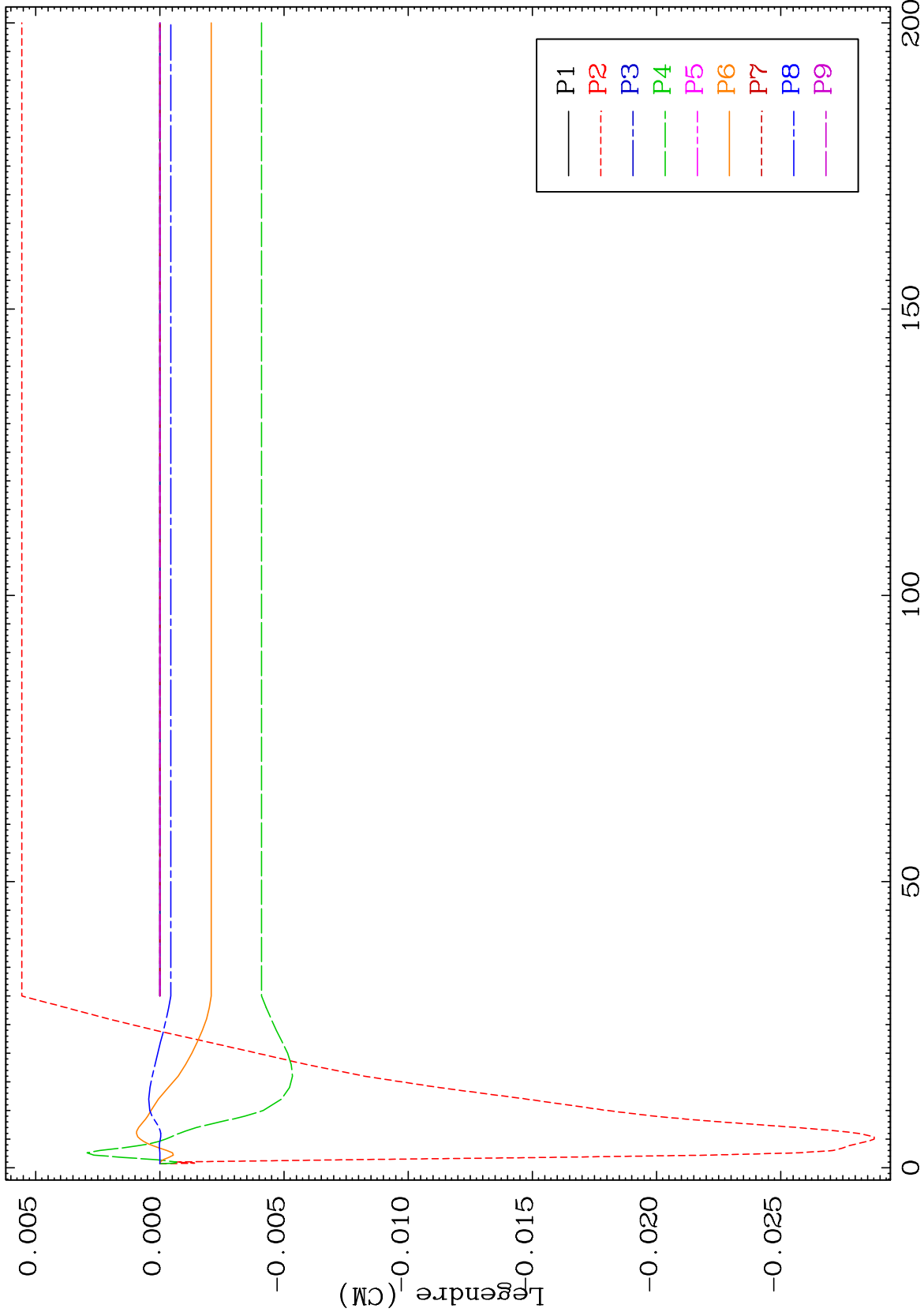
Incident Energy (MeV)

83-Bi-202

MAT 8304

675.0 keV (n,n') Level
Legendre Coefficients

83-Bi-202



117

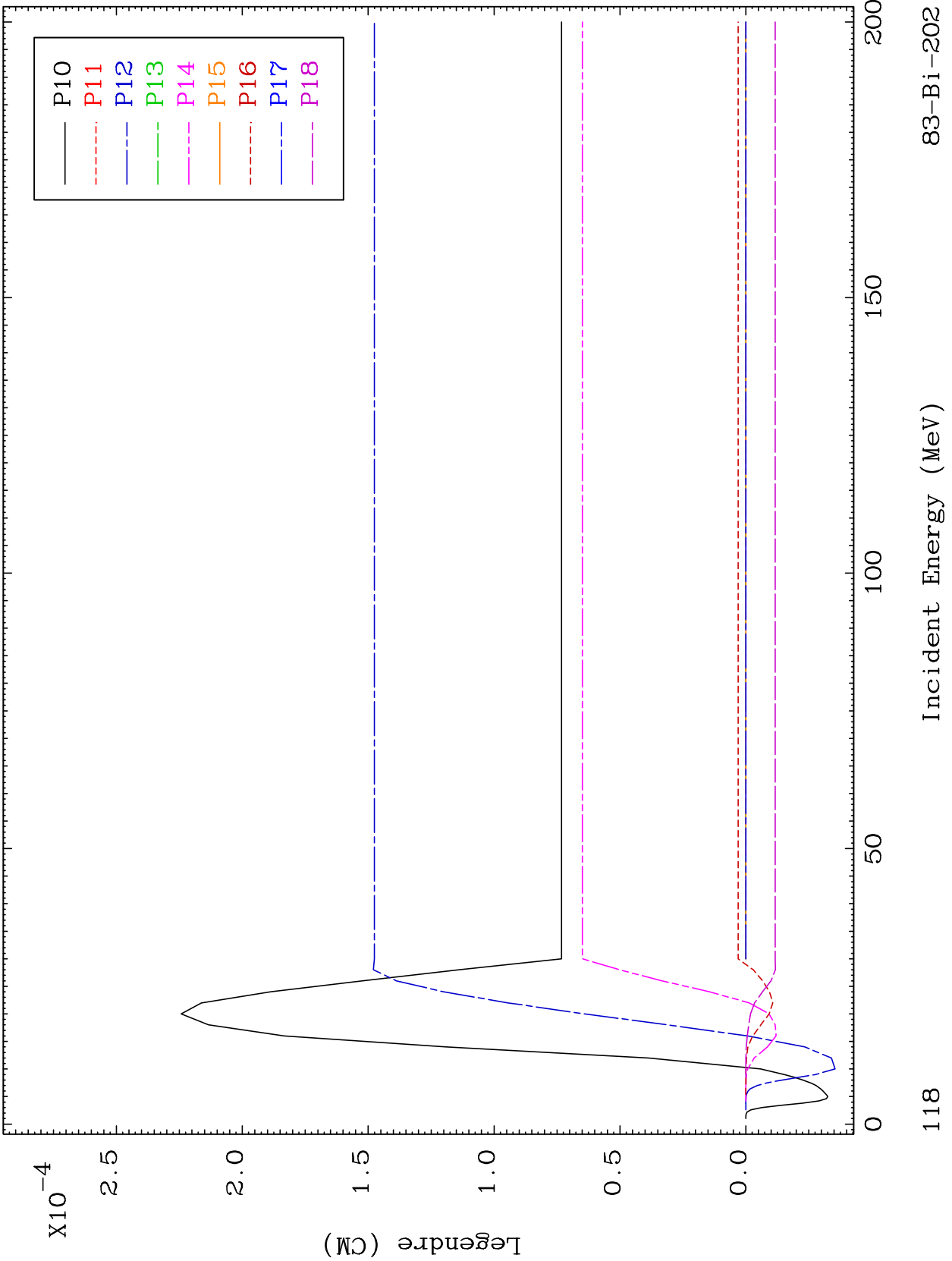
Incident Energy (MeV)

83-Bi-202

MAT 8304

675.0 keV (n,n') Level
Legendre Coefficients

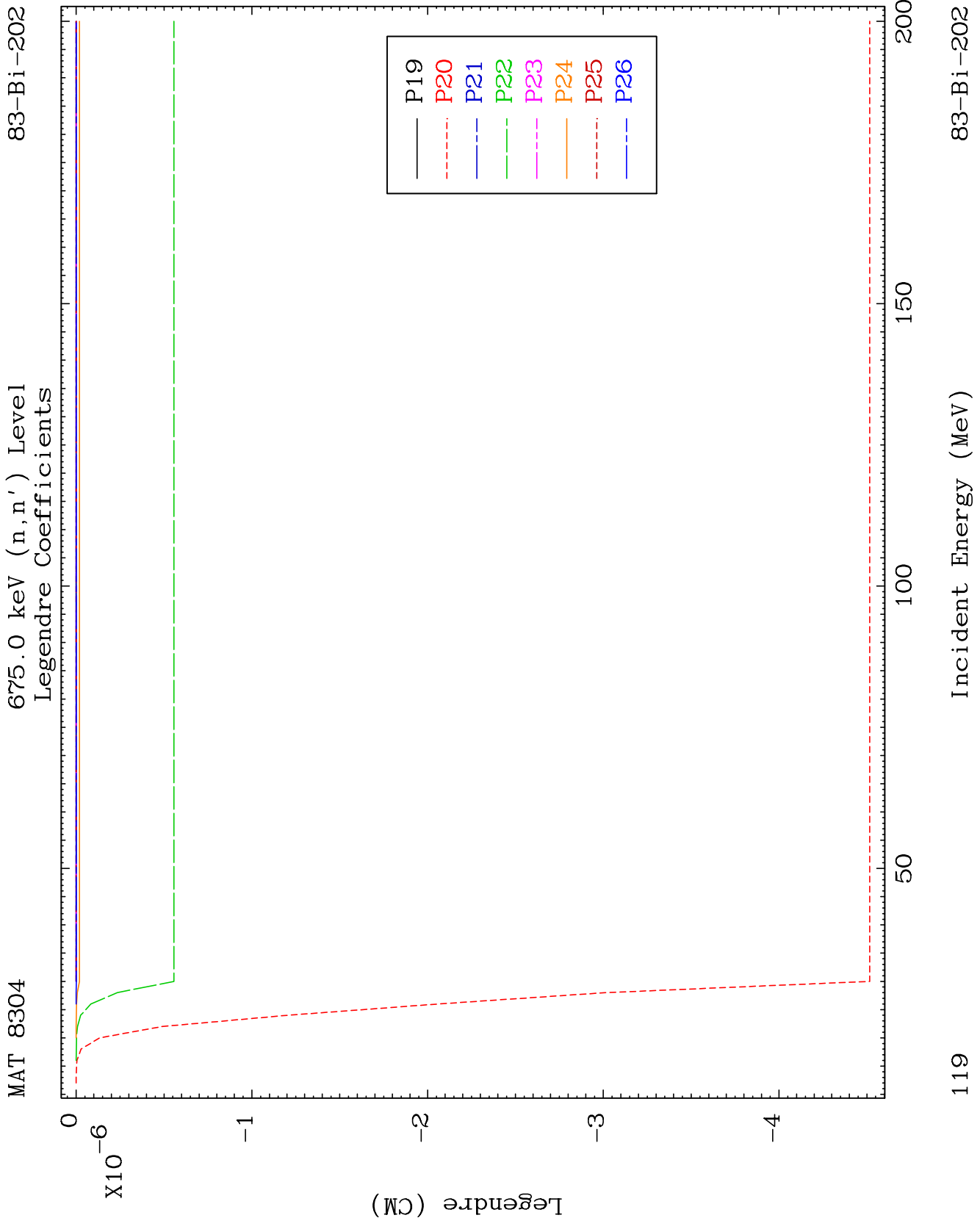
83-Bi-202



118

Incident Energy (MeV)

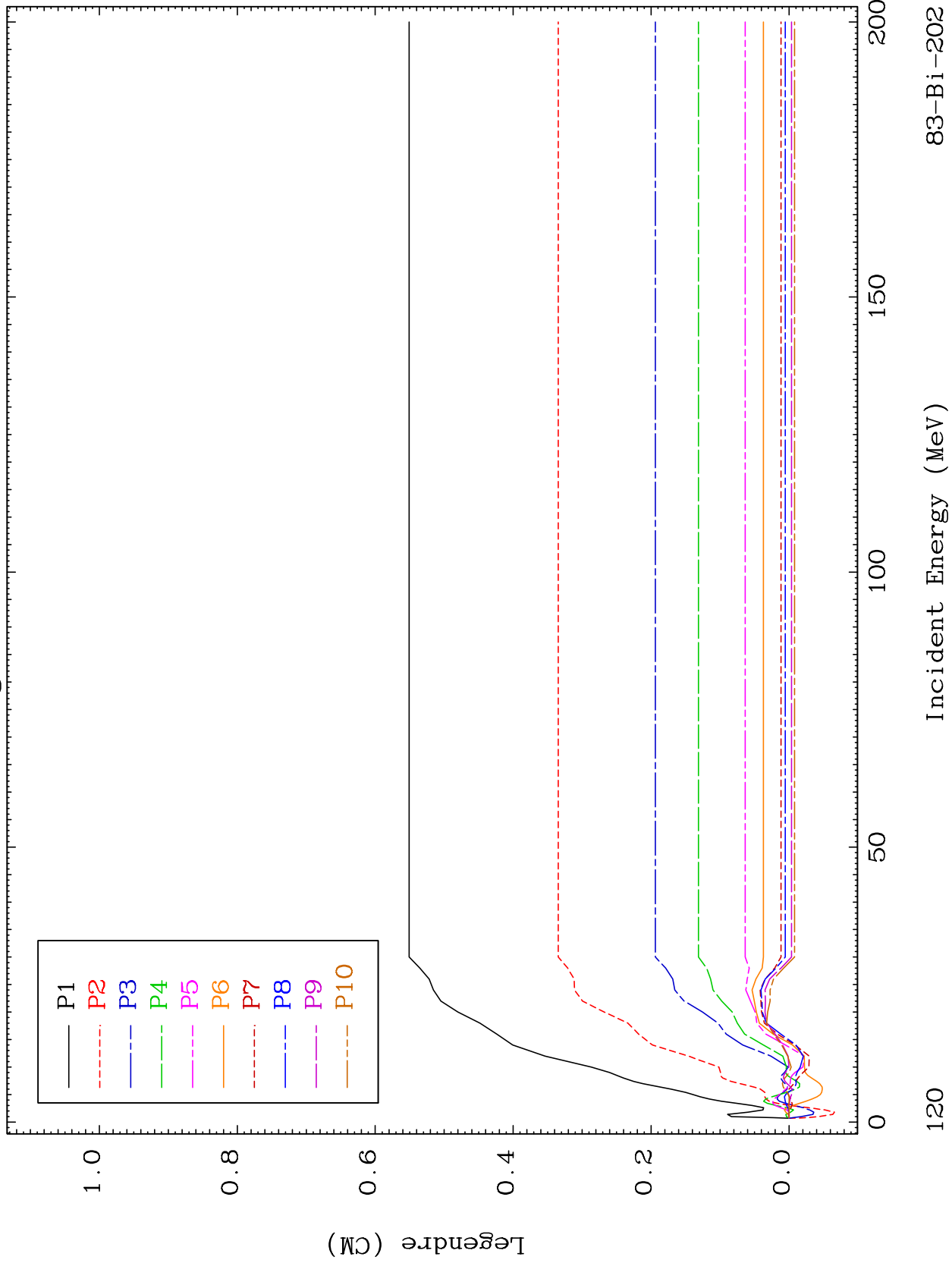
83-Bi-202



MAT 8304

678.6 keV (n,n') Level
Legendre Coefficients

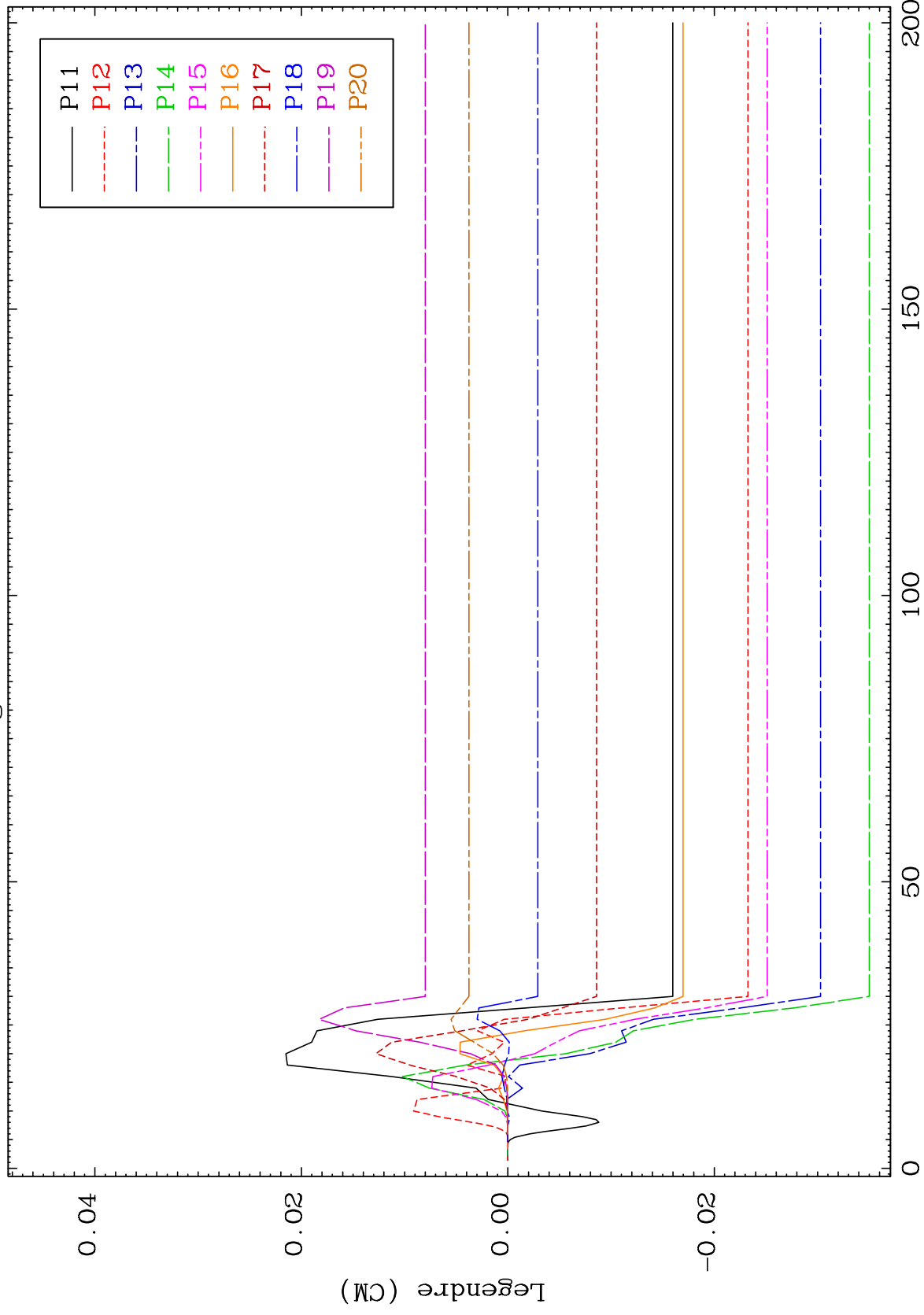
83-Bi-202



MAT 8304

678.6 keV (n,n') Level
Legendre Coefficients

83-Bi-202



121

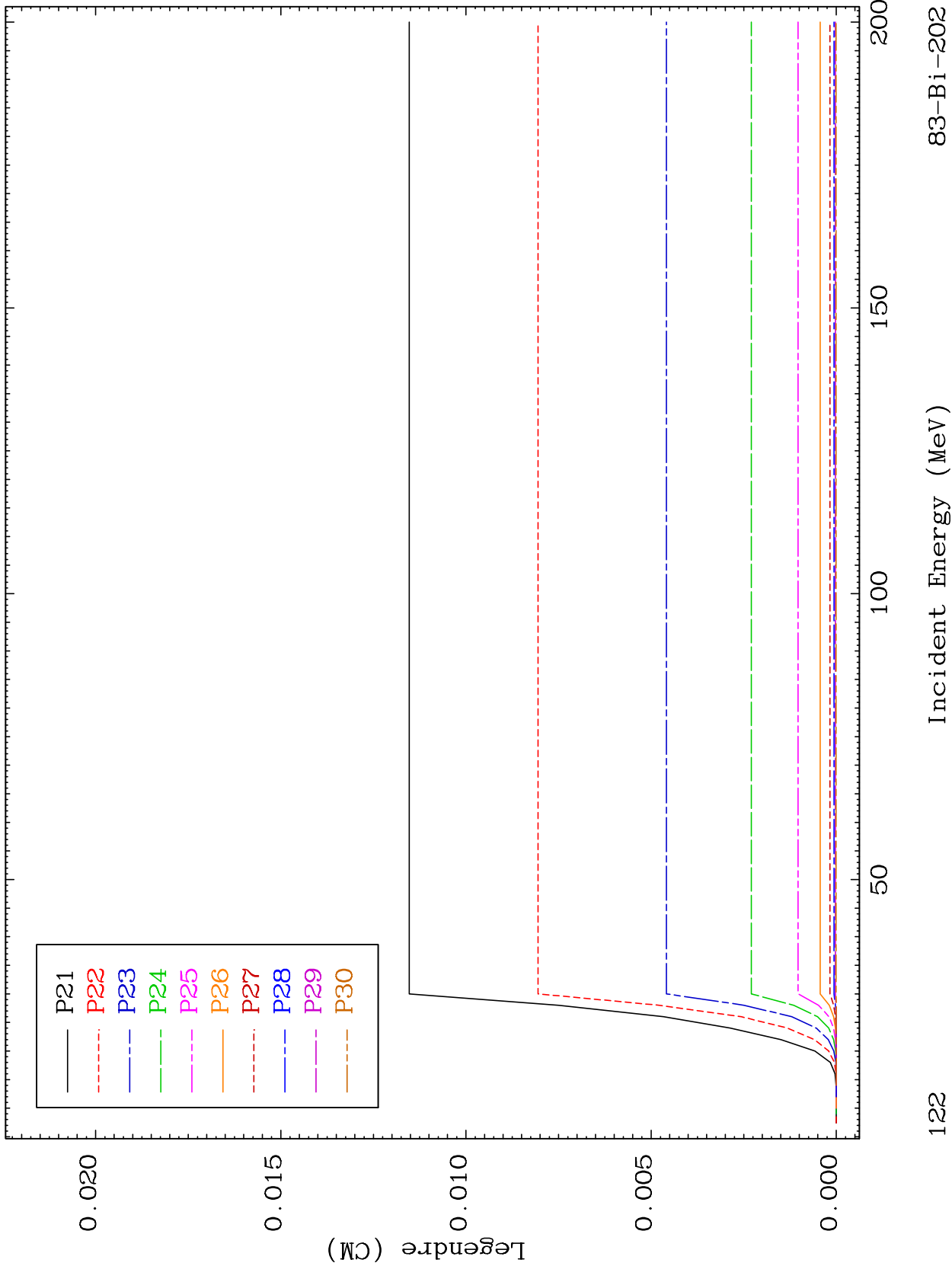
Incident Energy (MeV)

83-Bi-202

MAT 8304

678.6 keV (n,n') Level
Legendre Coefficients

83-Bi-202



122

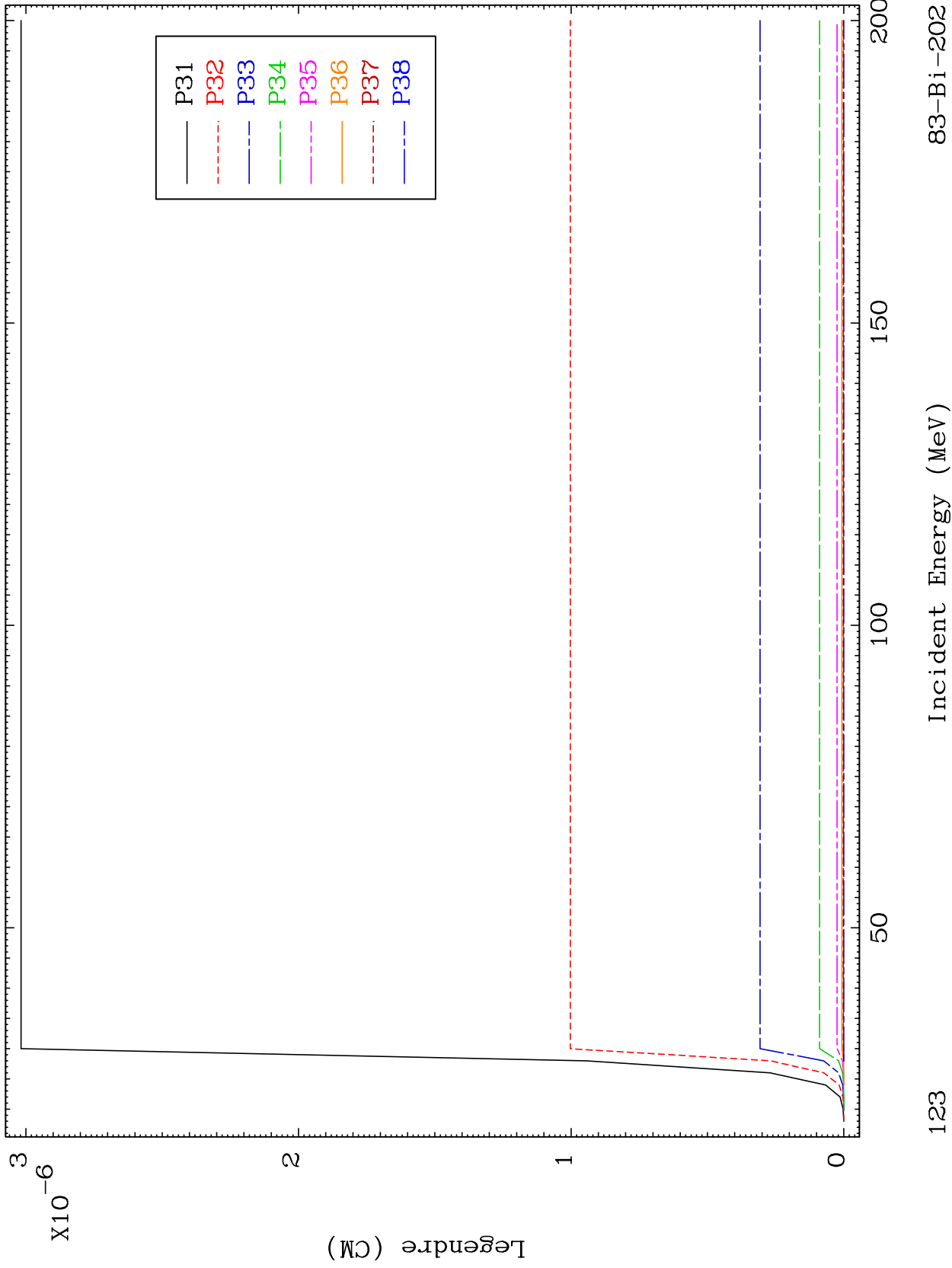
Incident Energy (MeV)

83-Bi-202

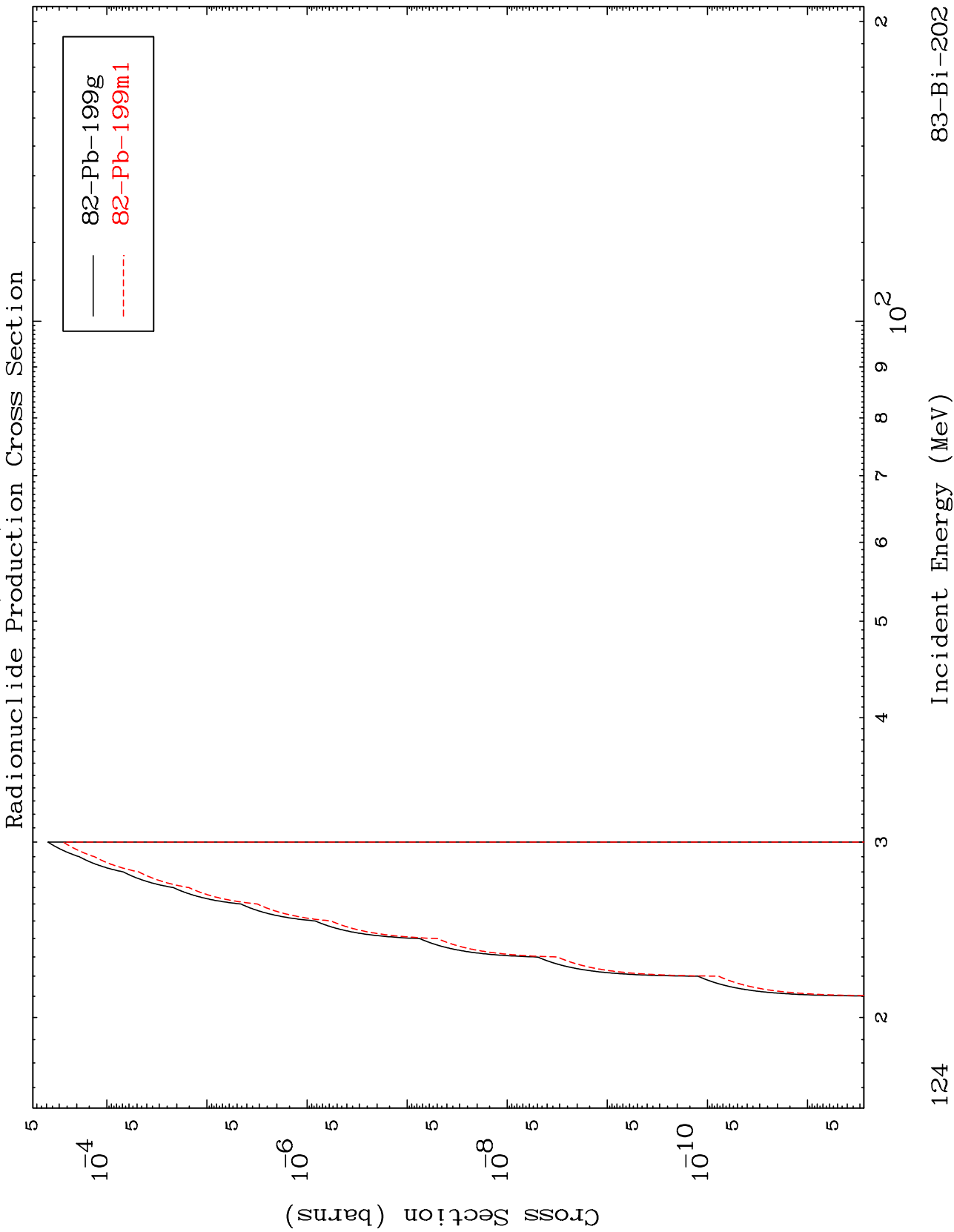
MAT 8304

678.6 keV (n,n') Level
Legendre Coefficients

83-Bi-202



123

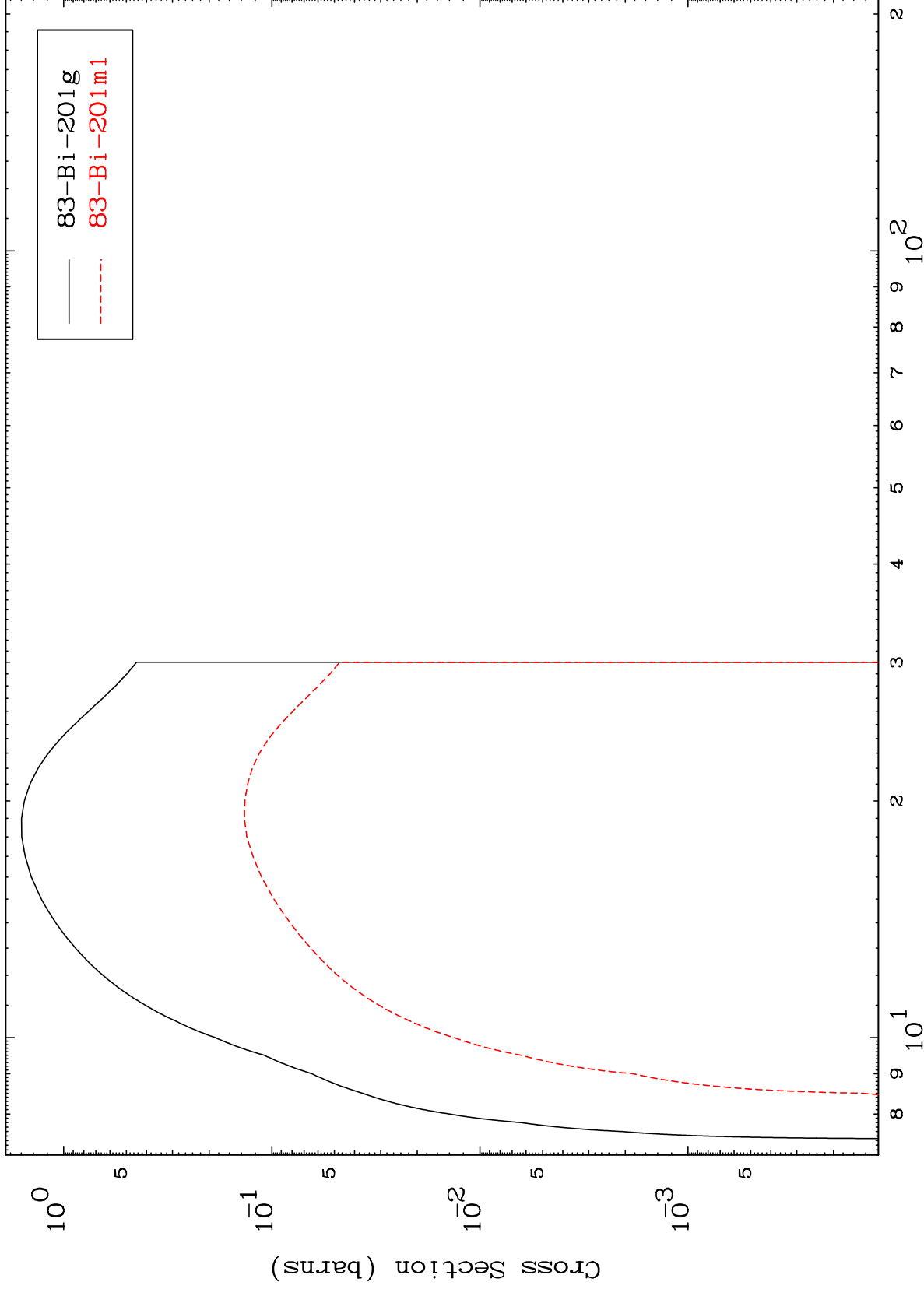


MAT 8304

(n,2n)

83-Bi-202

Radionuclide Production Cross Section



125

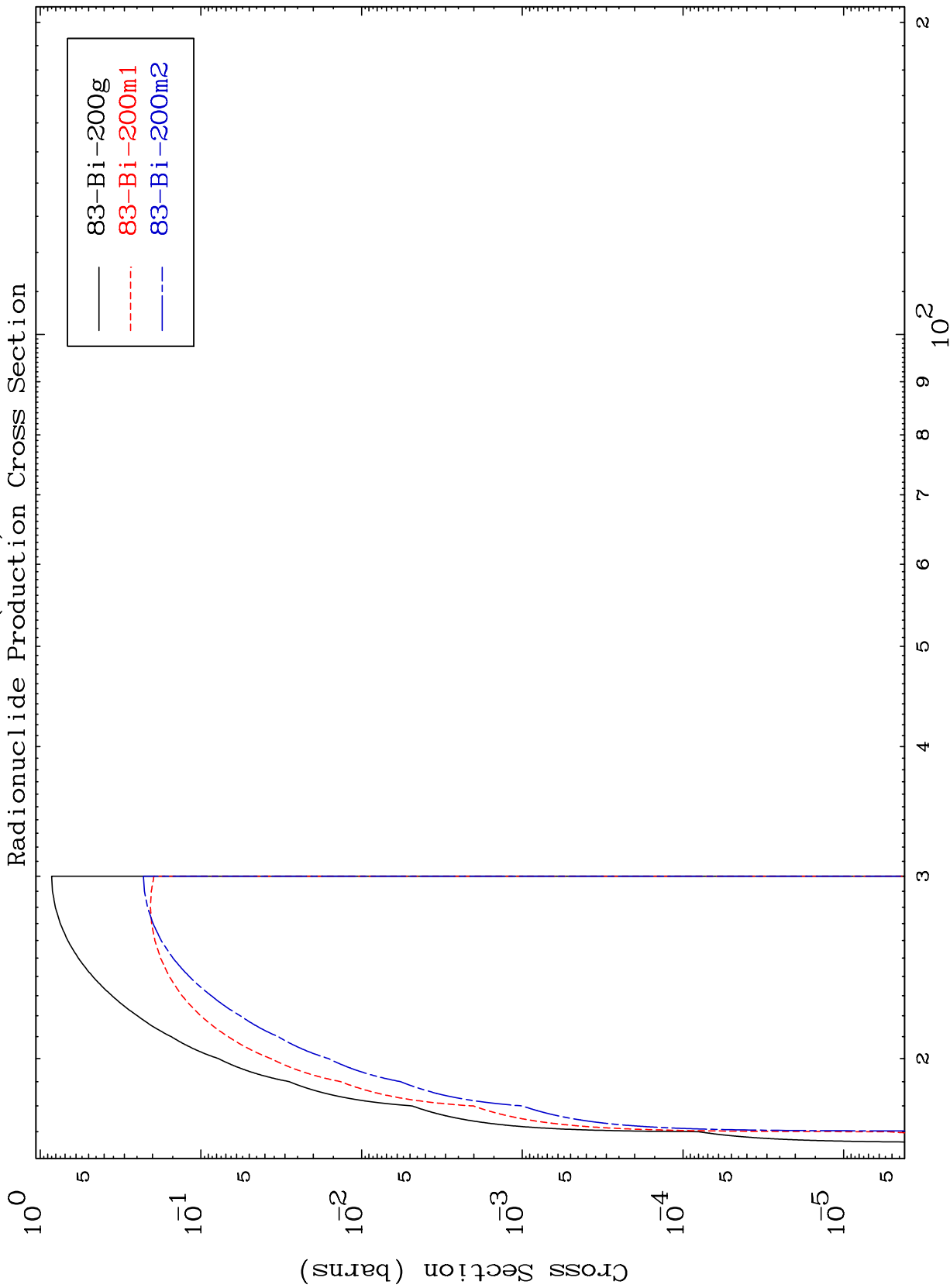
Incident Energy (MeV)

83-Bi-202

MAT 8304

83-Bi-202

(n,3n)
Radionuclide Production Cross Section



126

Incident Energy (MeV)

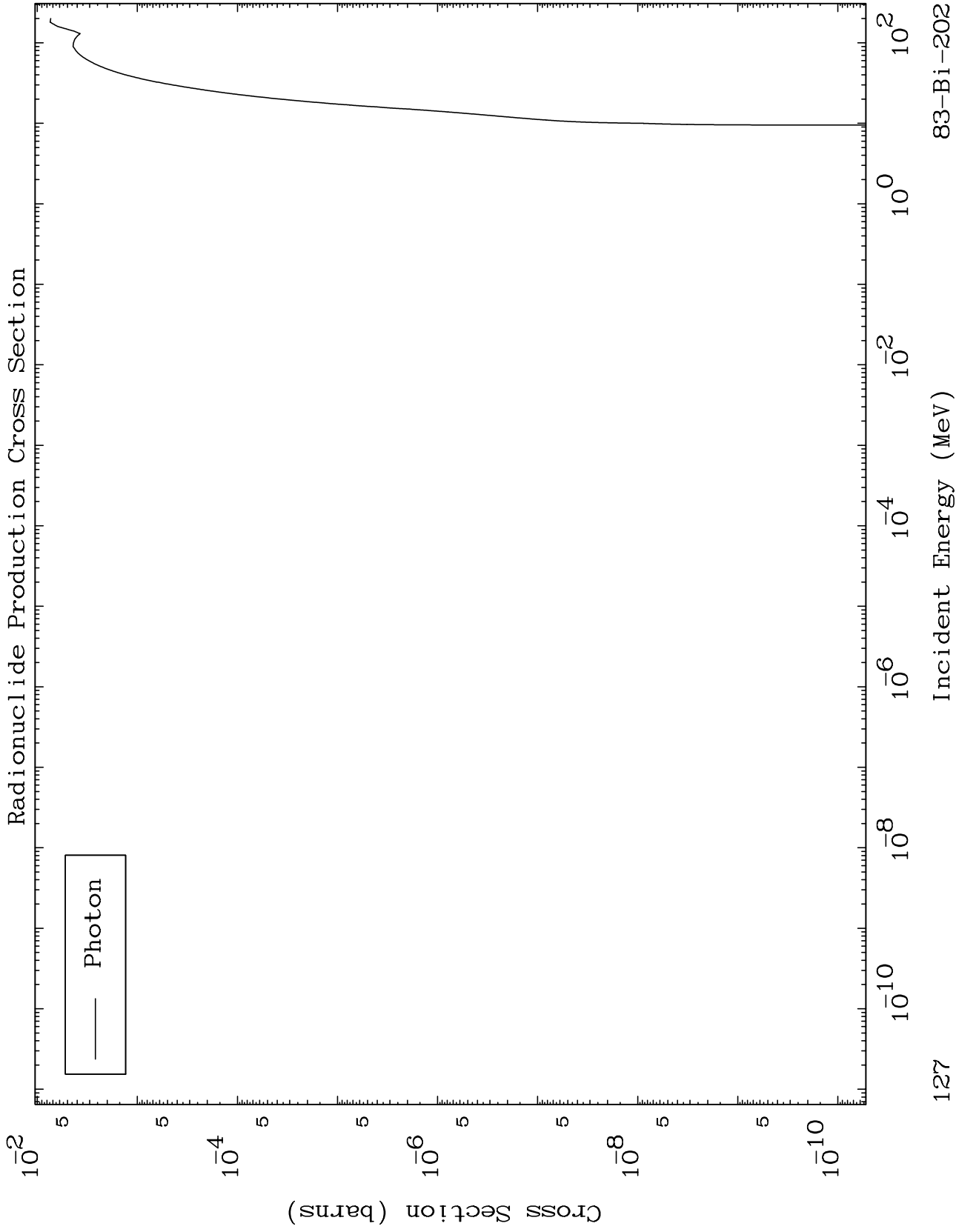
83-Bi-202

MAT 8304

Fission

83-Bi-202

Radionuclide Production Cross Section

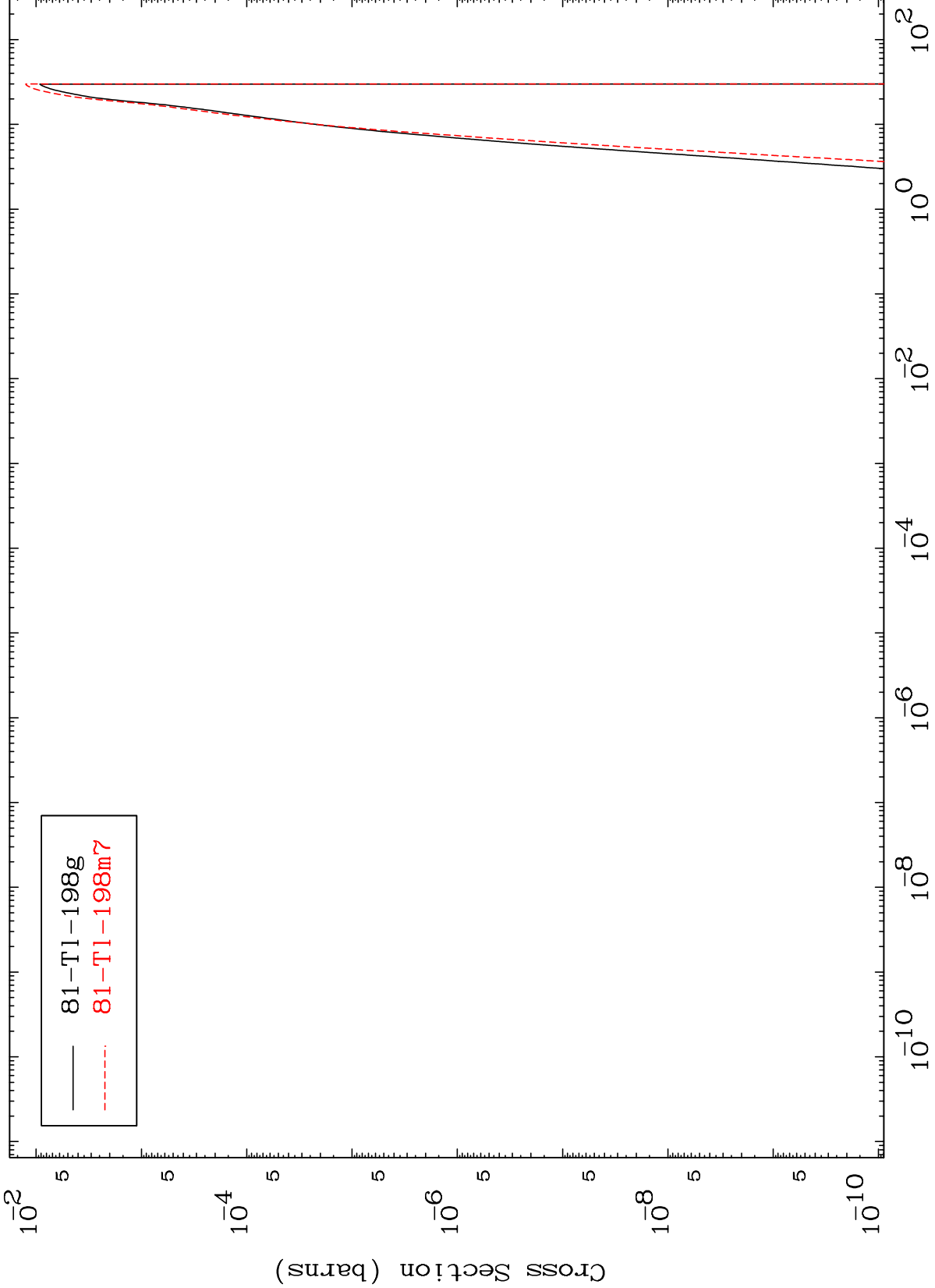


MAT 8304

$(n, n') \alpha$

83-Bi-202

Radionuclide Production Cross Section

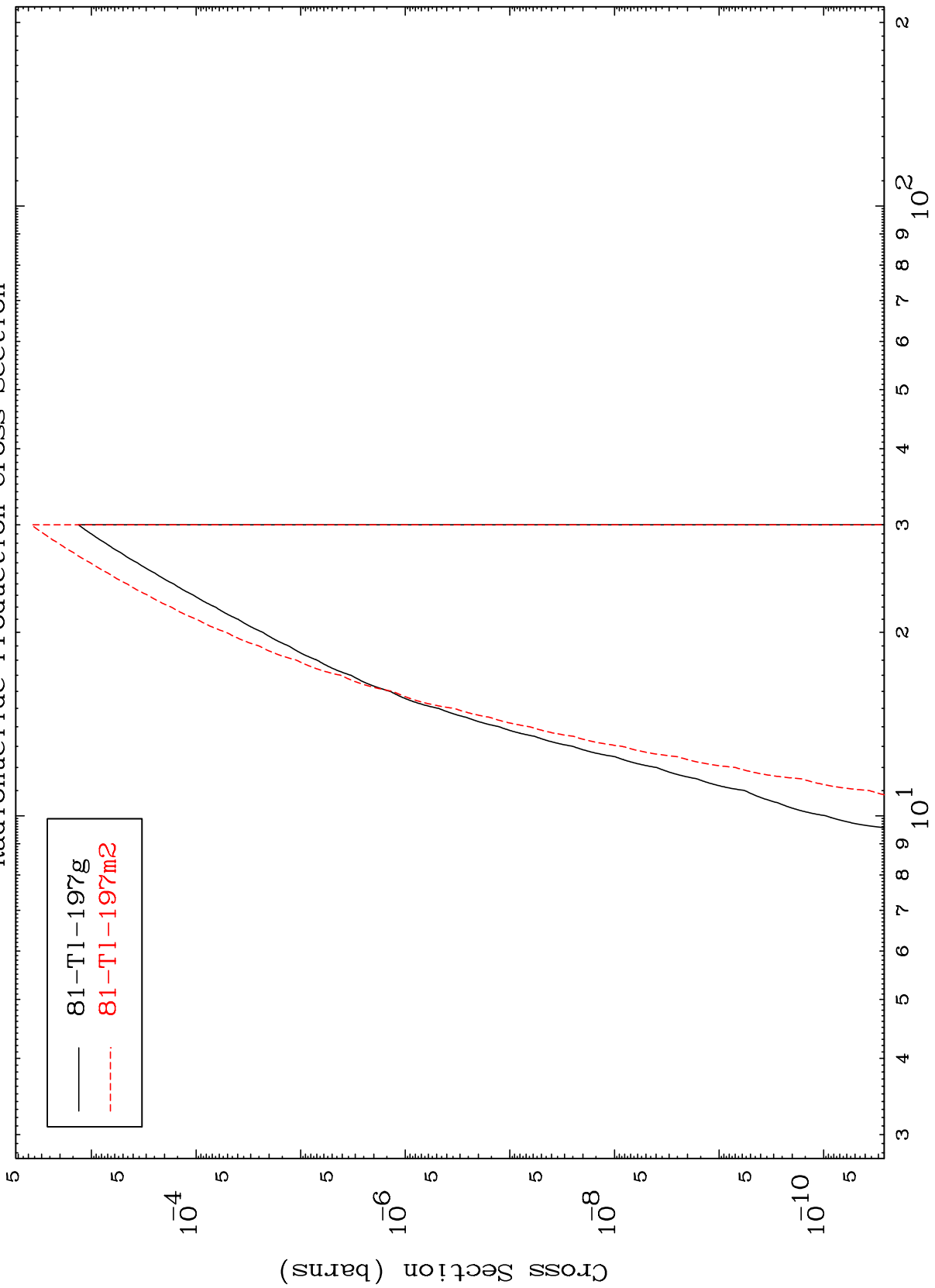


MAT 8304

$(n, 2n) \alpha$

83-Bi-202

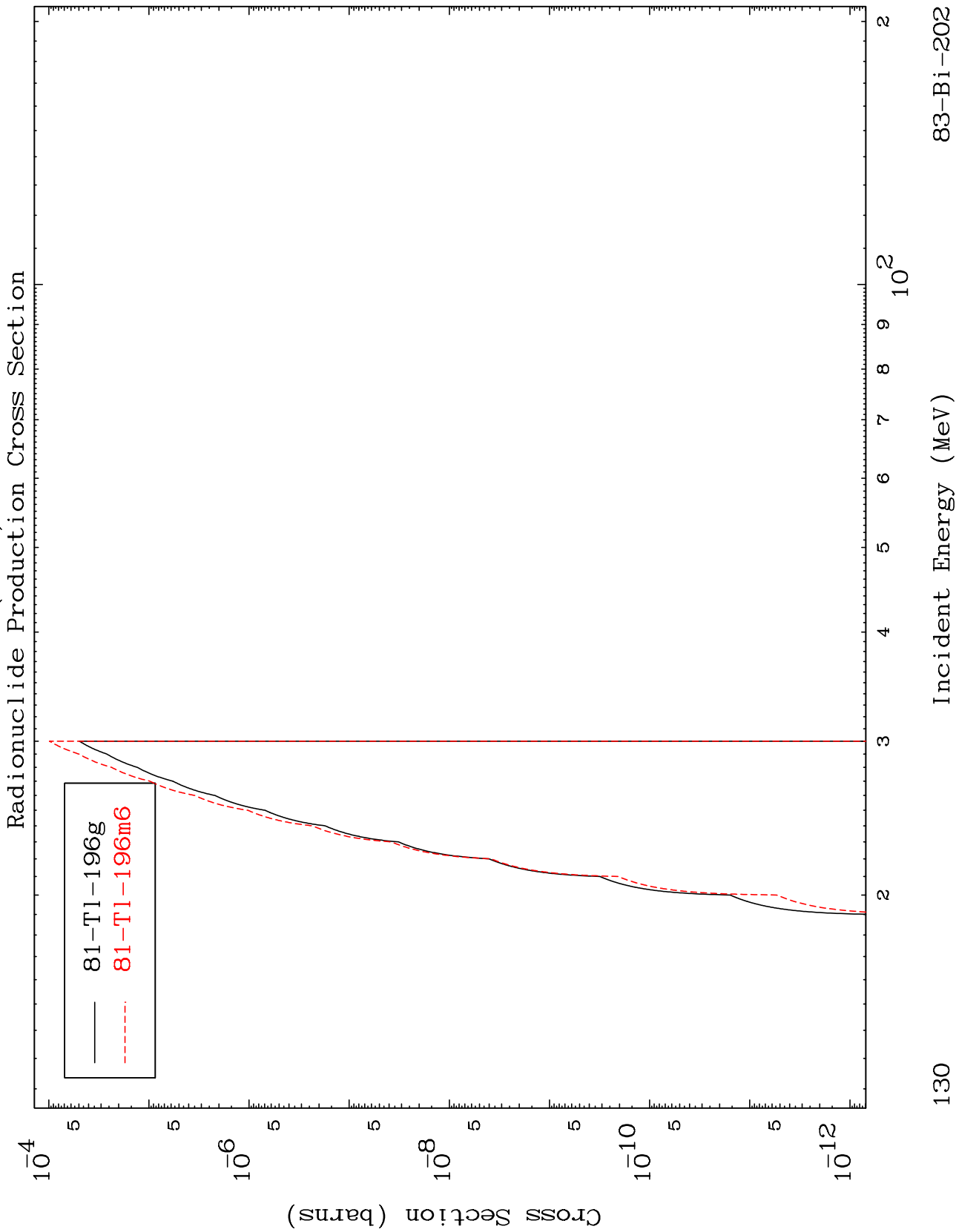
Radionuclide Production Cross Section



MAT 8304

(n,3n) α

83-Bi-202



130

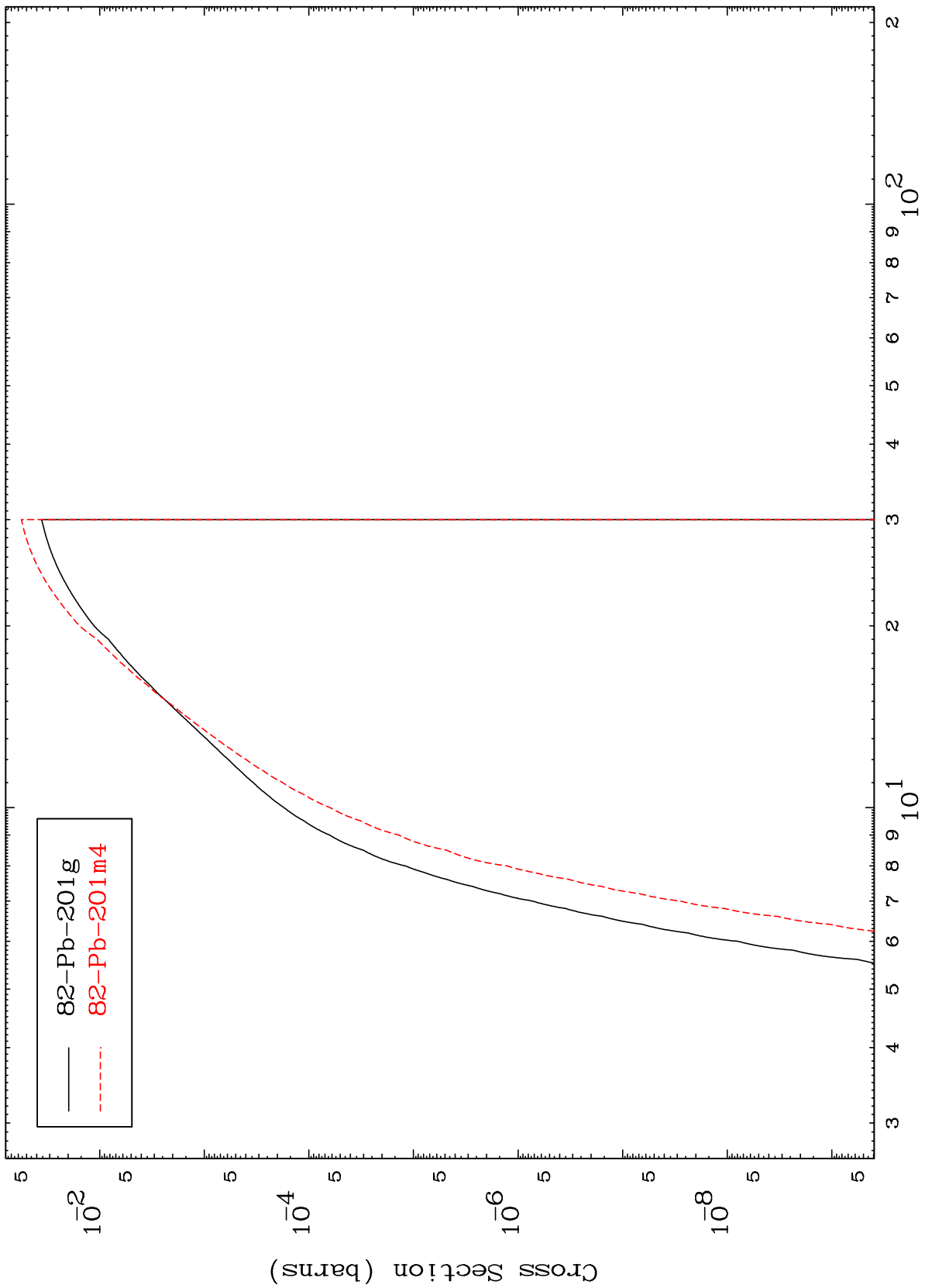
Incident Energy (MeV)

83-Bi-202

MAT 8304

83-Bi-202

(n,n') p
Radionuclide Production Cross Section



83-Bi-202

Incident Energy (MeV)

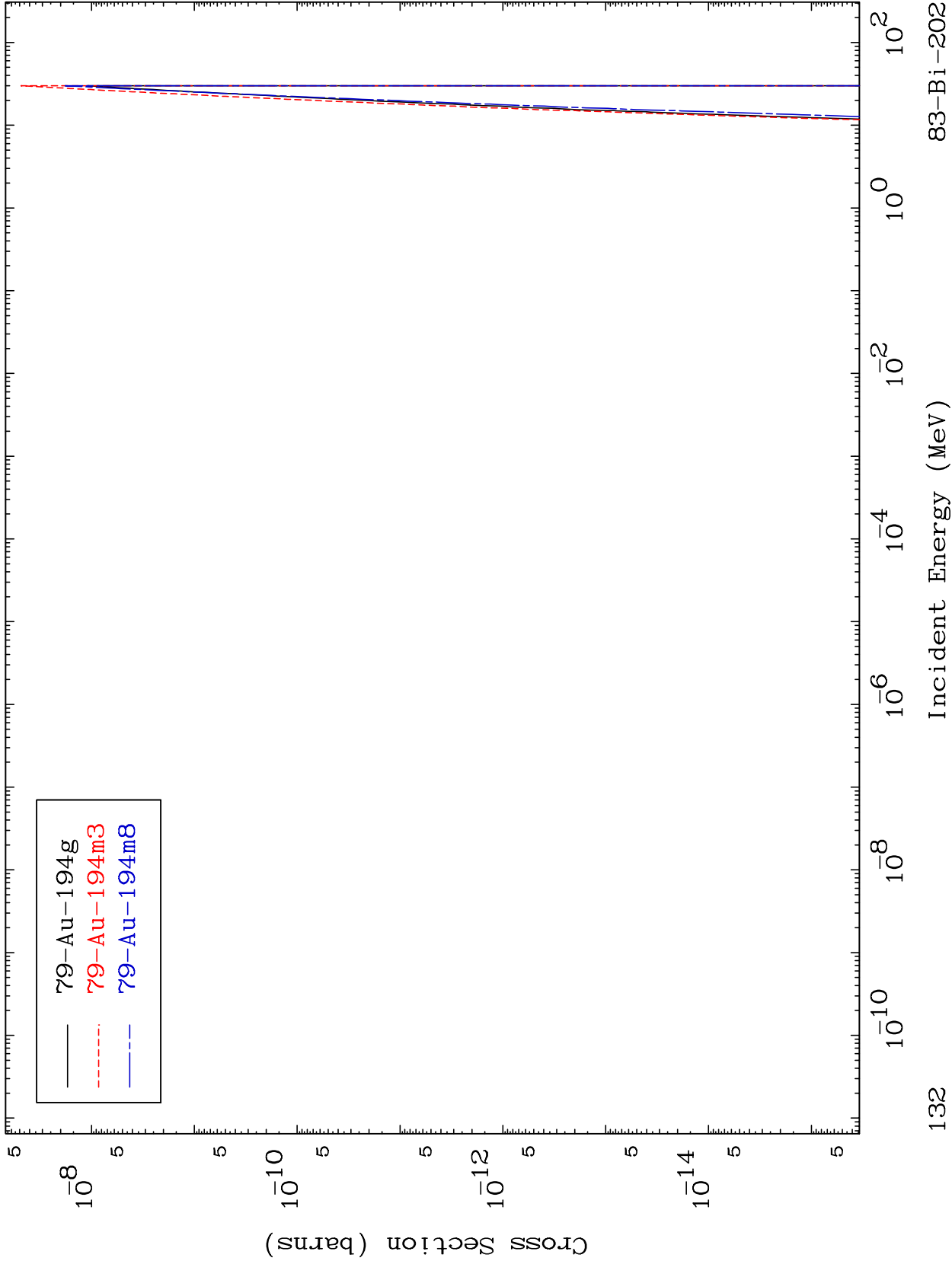
131

MAT 8304

(n,n') 2 α

83-Bi-202

Radionuclide Production Cross Section



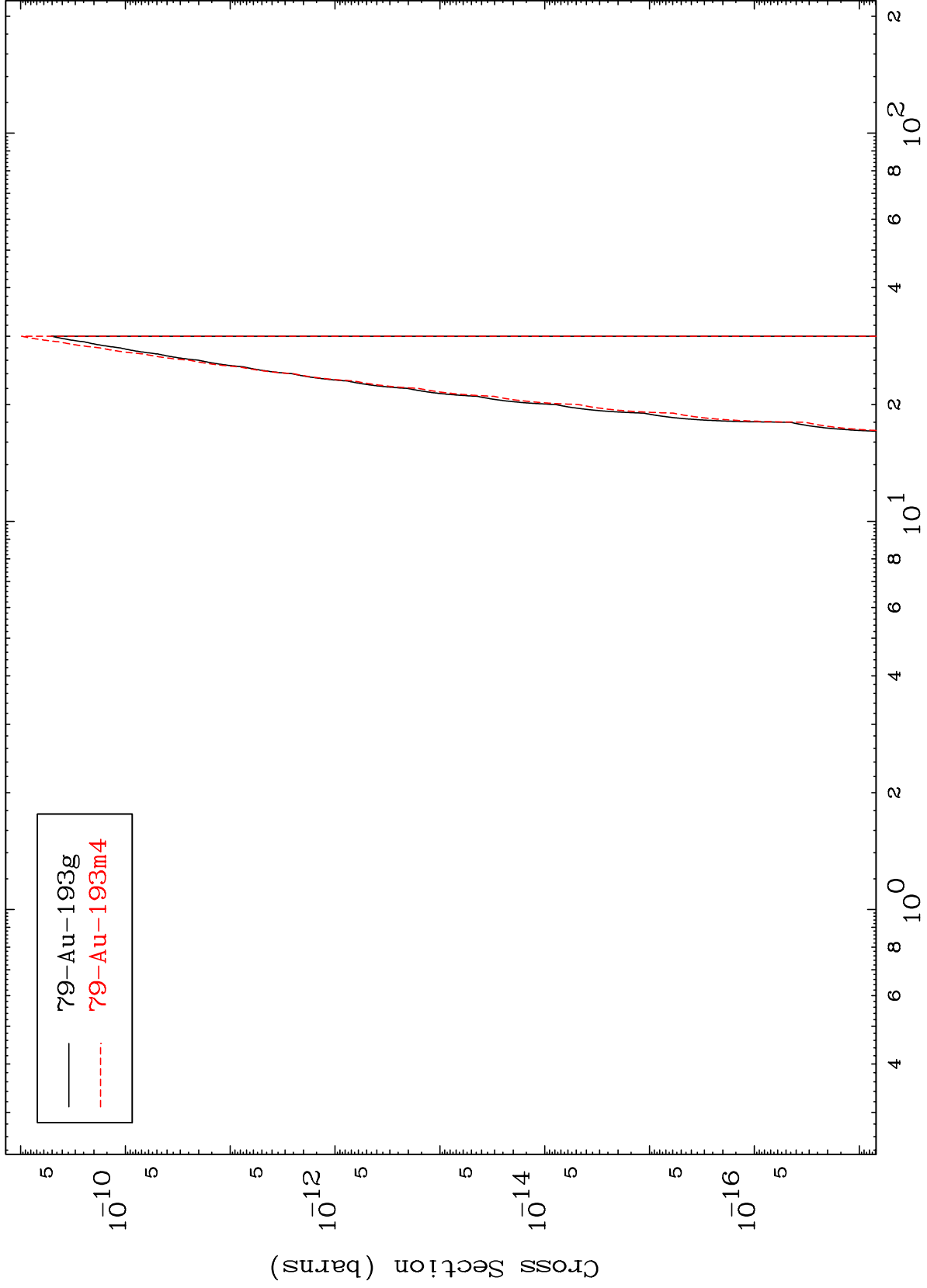
79-Au-194g
79-Au-194m3
79-Au-194m8

MAT 8304

(n,2n) 2 α

83-Bi-202

Radionuclide Production Cross Section



133

Incident Energy (MeV)

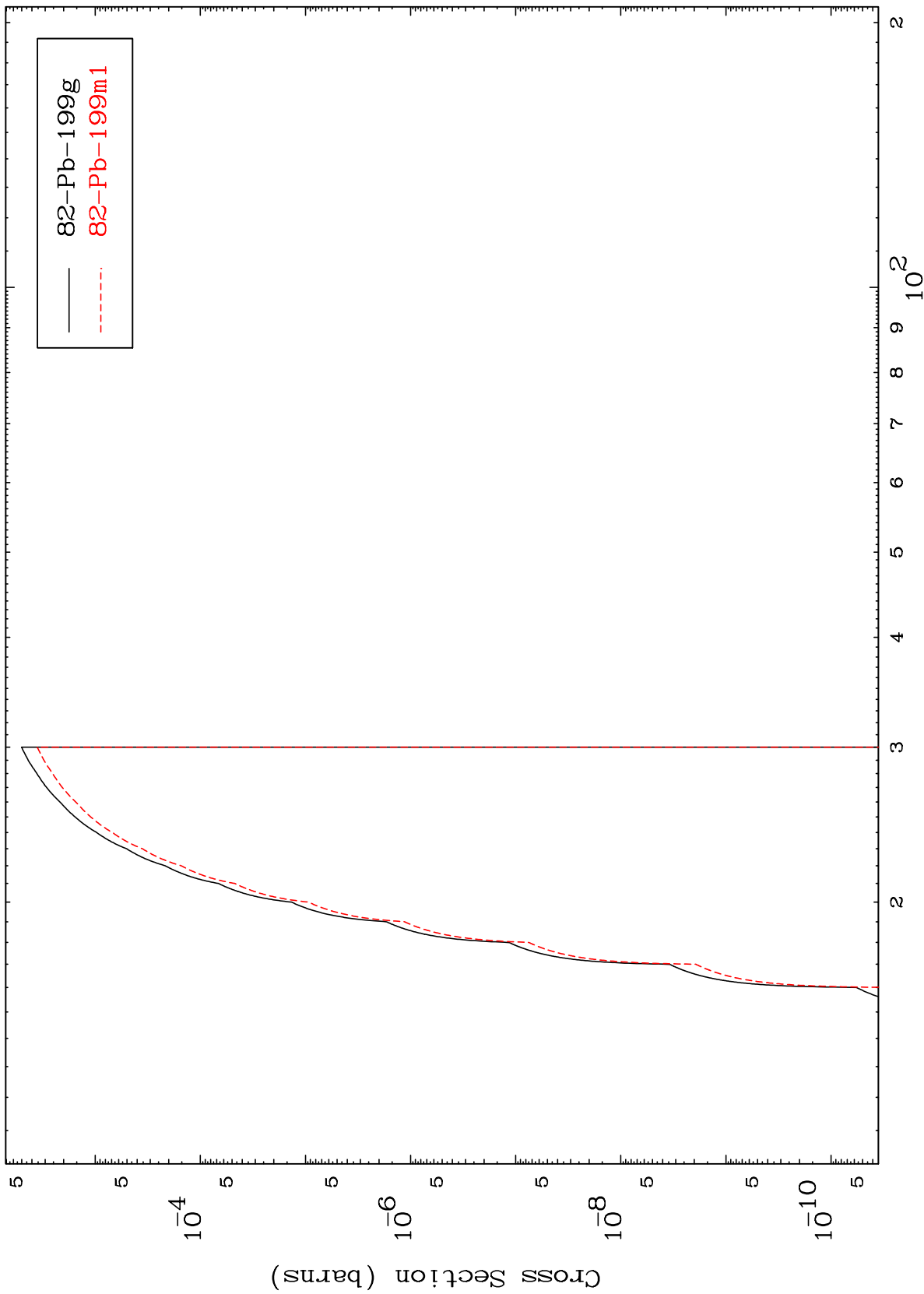
83-Bi-202

MAT 8304

(n,n') t

83-Bi-202

Radionuclide Production Cross Section



134

Incident Energy (MeV)

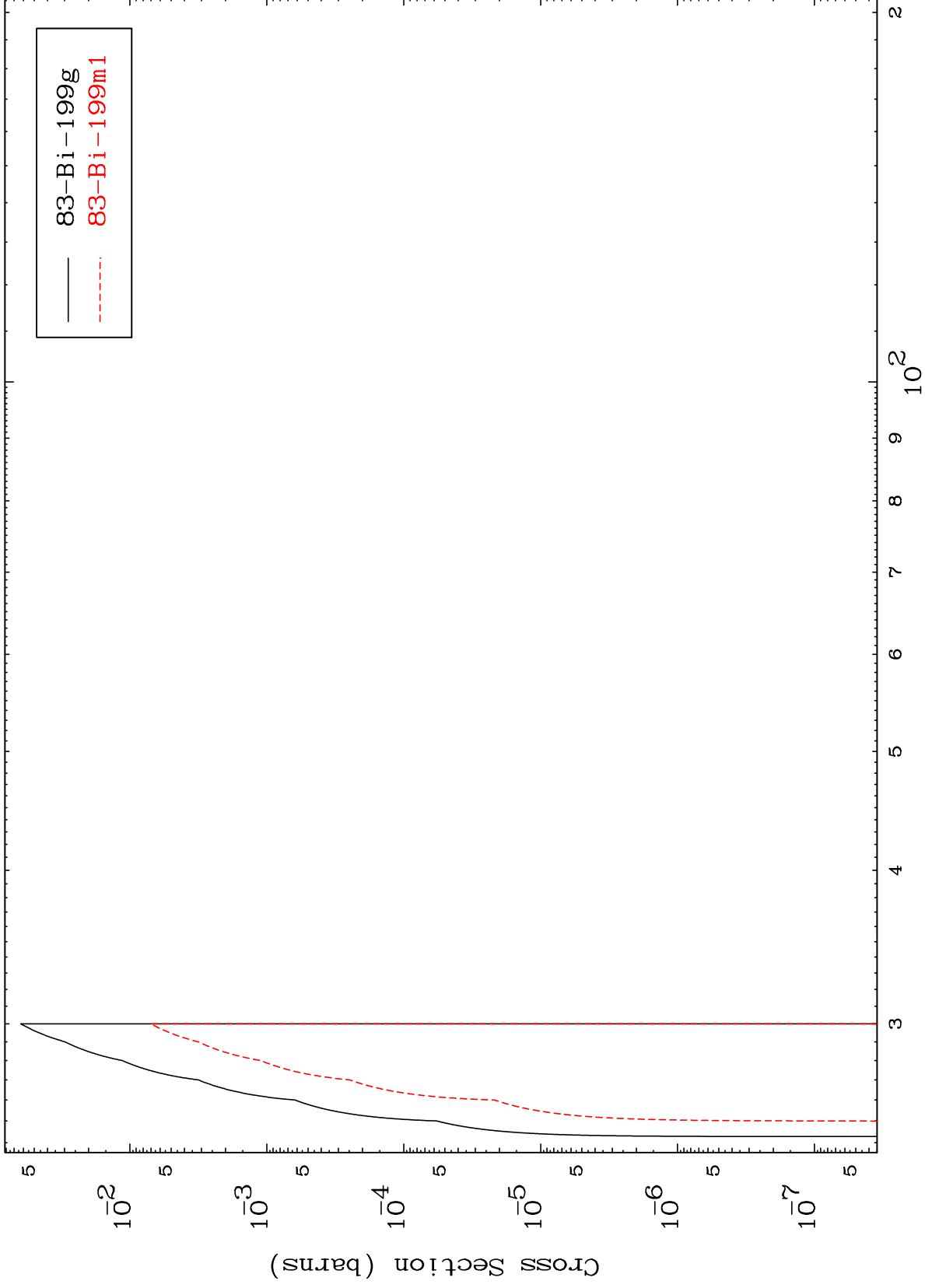
83-Bi-202

MAT 8304

(n,4n)

83-Bi-202

Radionuclide Production Cross Section



135

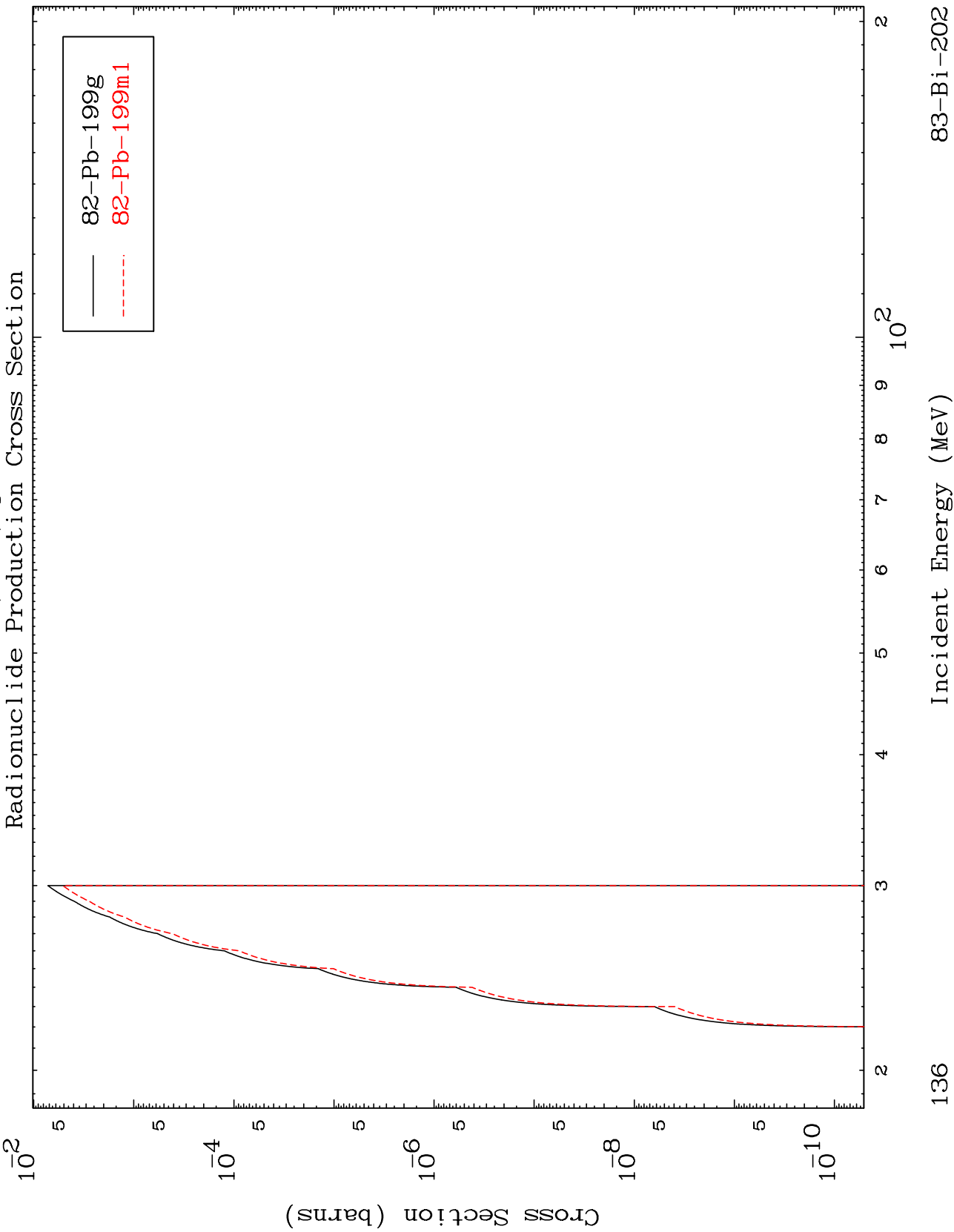
Incident Energy (MeV)

83-Bi-202

MAT 8304

(n,3n) p

83-Bi-202



136

Incident Energy (MeV)

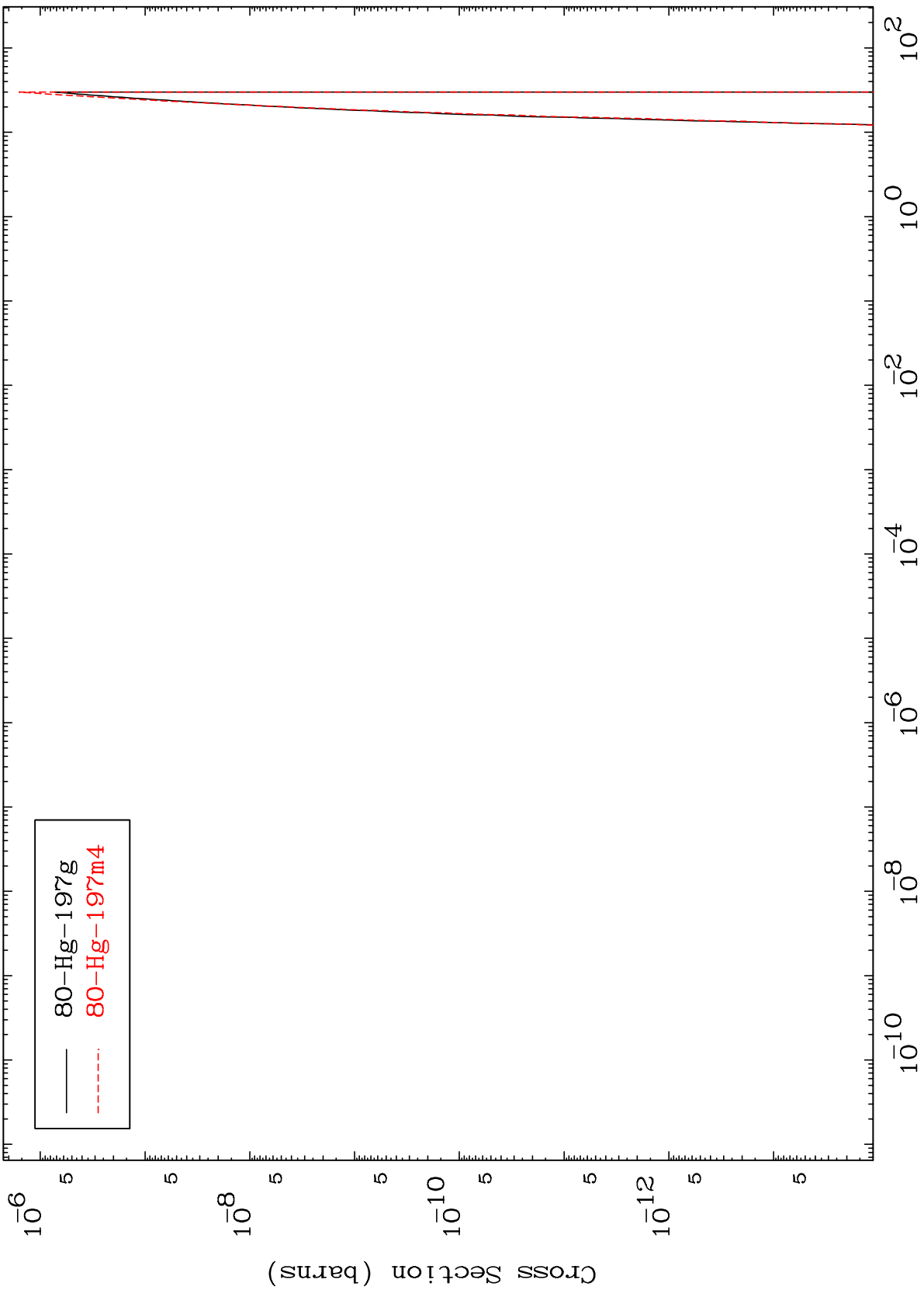
83-Bi-202

MAT 8304

(n,n') p α

83-Bi-202

Radionuclide Production Cross Section



137

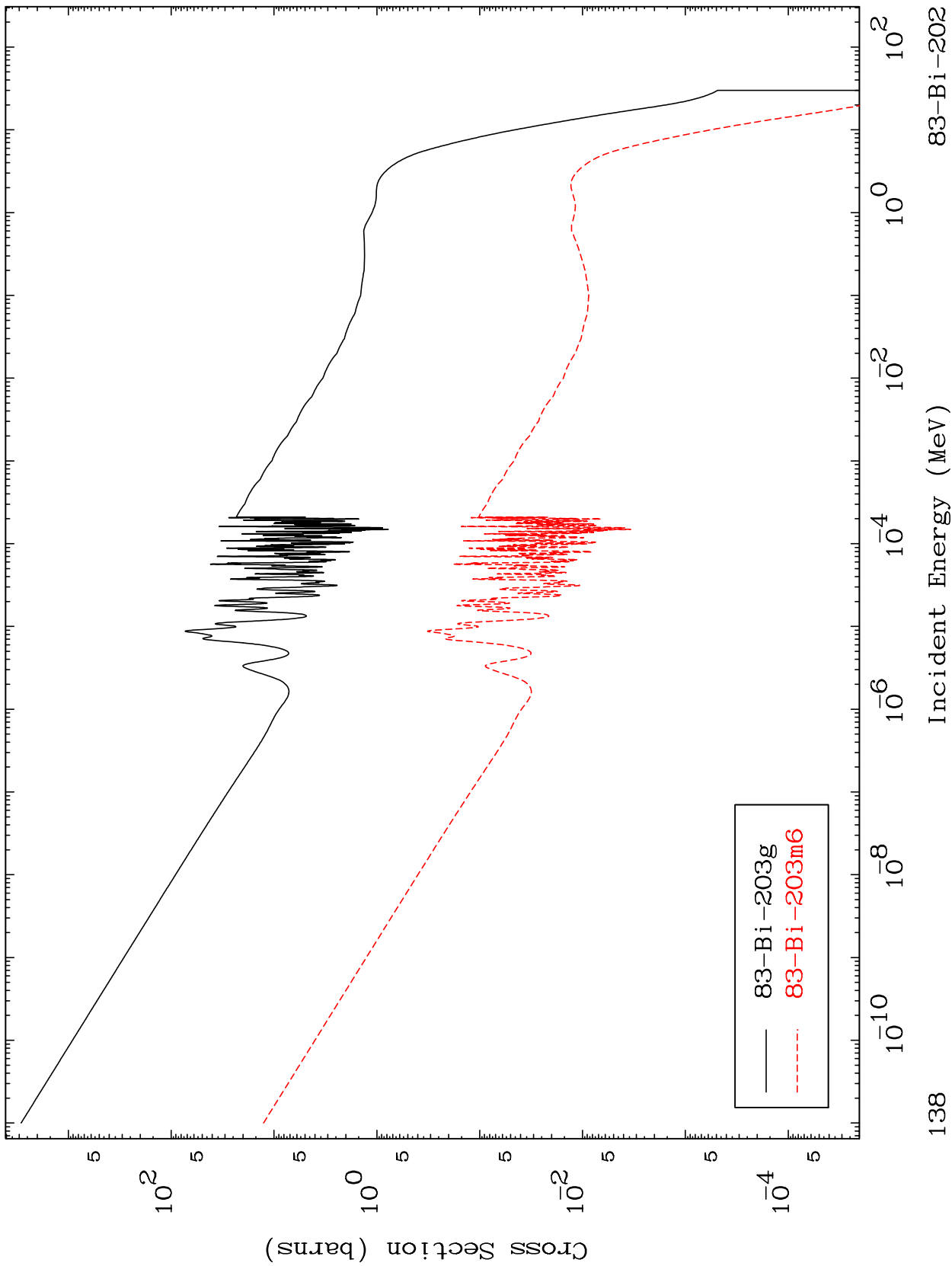
Incident Energy (MeV)

83-Bi-202

MAT 8304

83-Bi-202

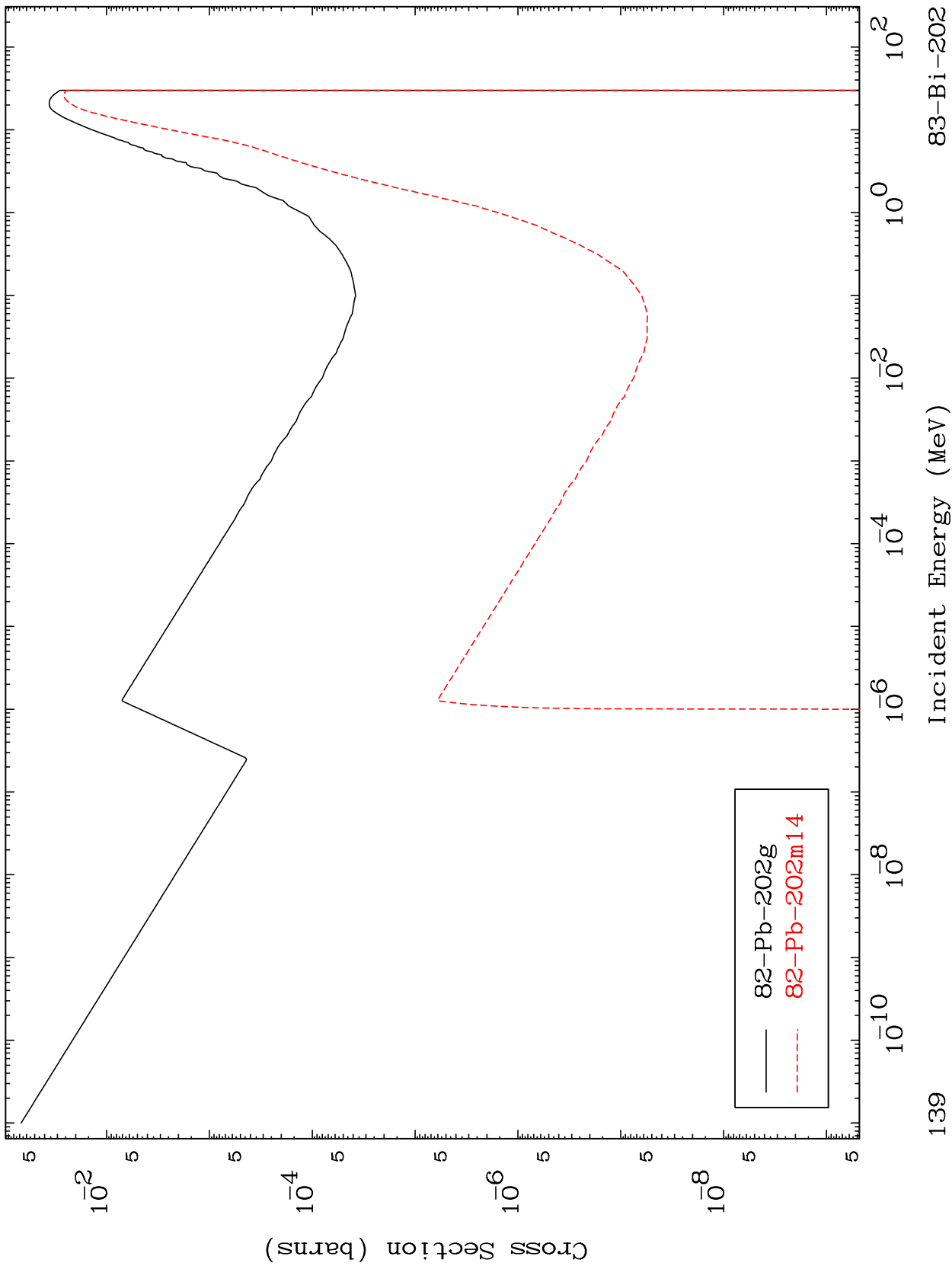
(n, γ)
Radionuclide Production Cross Section



MAT 8304

83-Bi-202

(n,p)
Radionuclide Production Cross Section

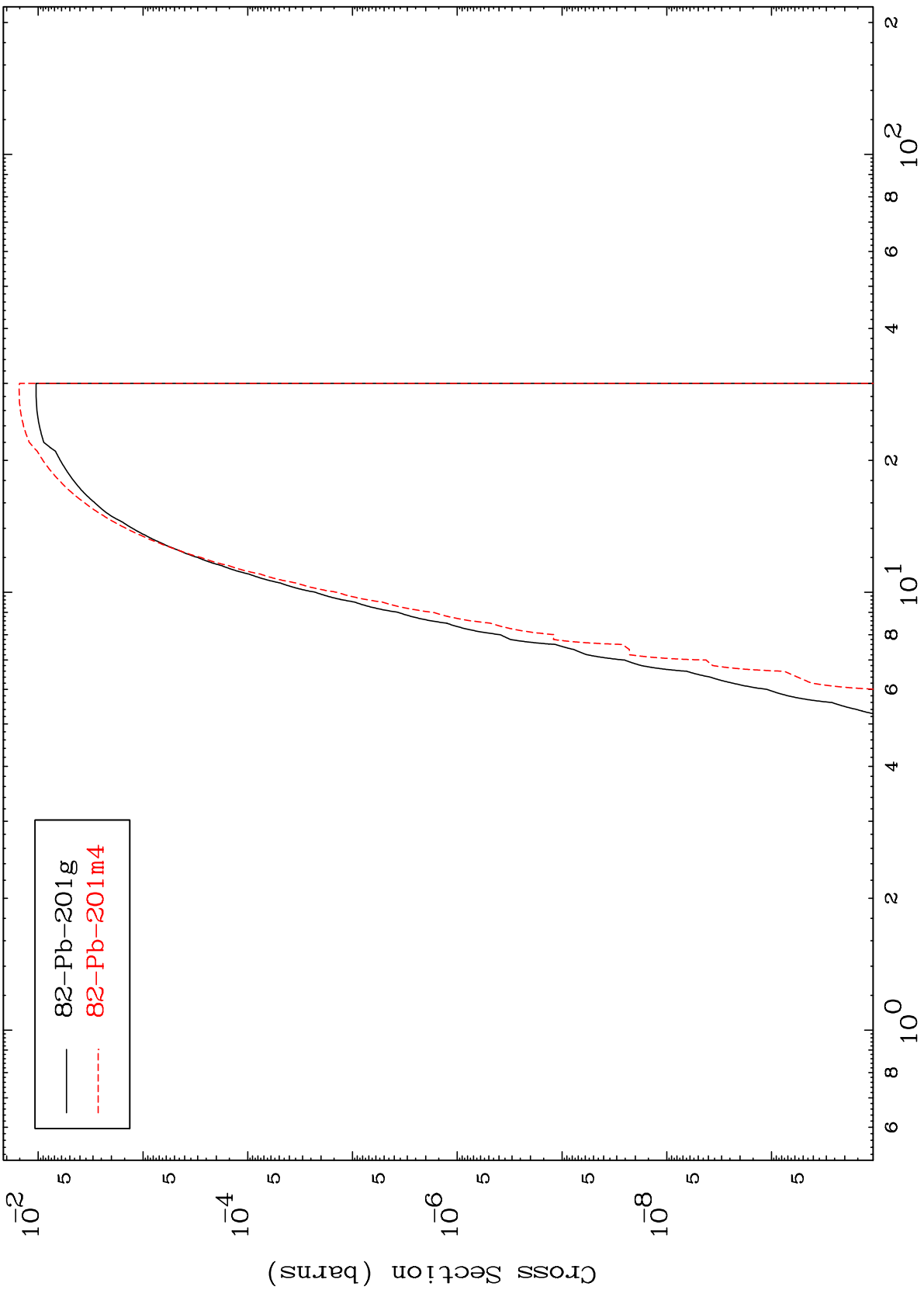


MAT 8304

(n,d)

83-Bi-202

Radionuclide Production Cross Section



— 82-Pb-201g
- - - 82-Pb-201m4

140

Incident Energy (MeV)

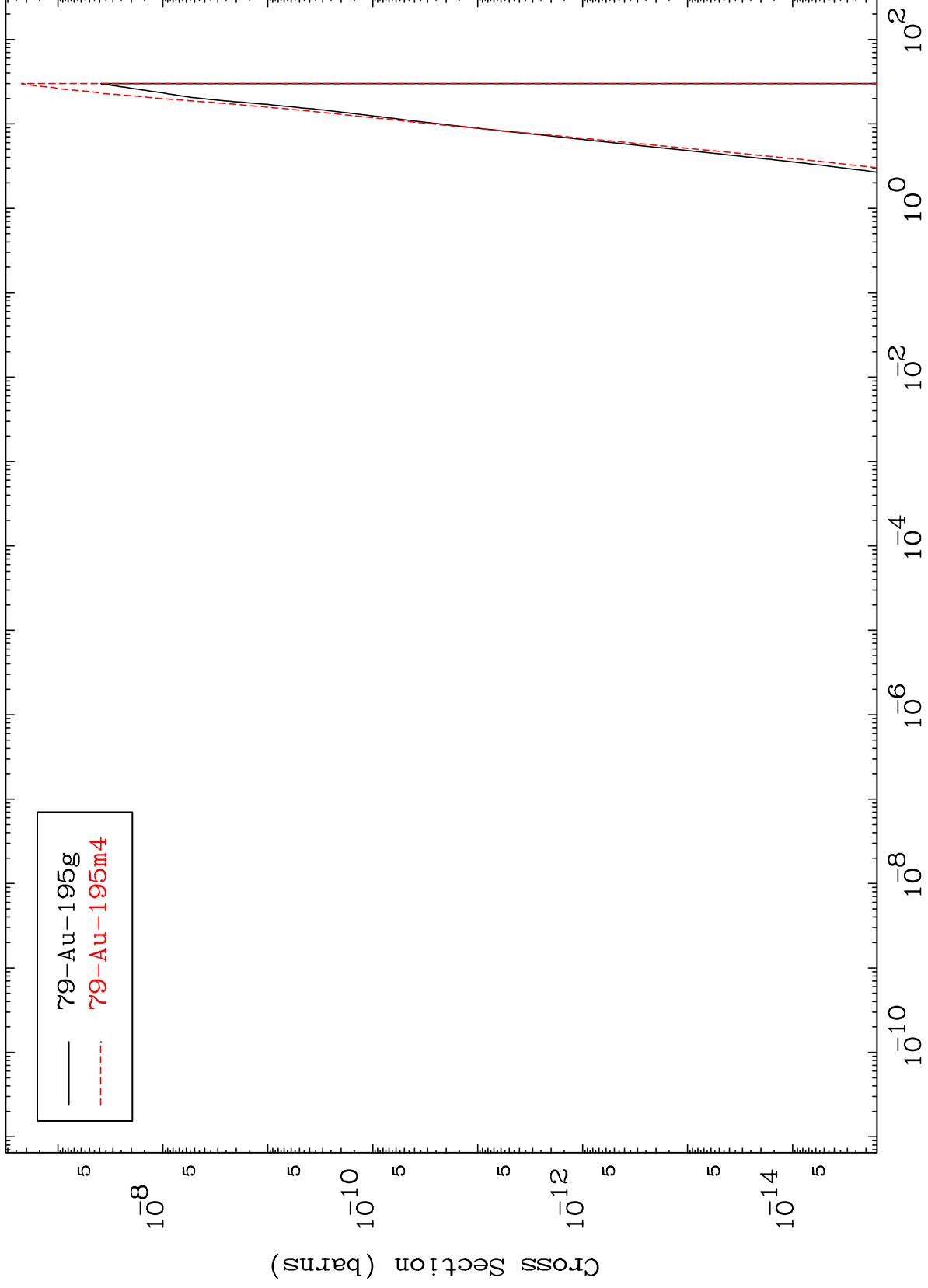
83-Bi-202

MAT 8304

(n,2α)

83-Bi-202

Radionuclide Production Cross Section



141

Incident Energy (MeV)

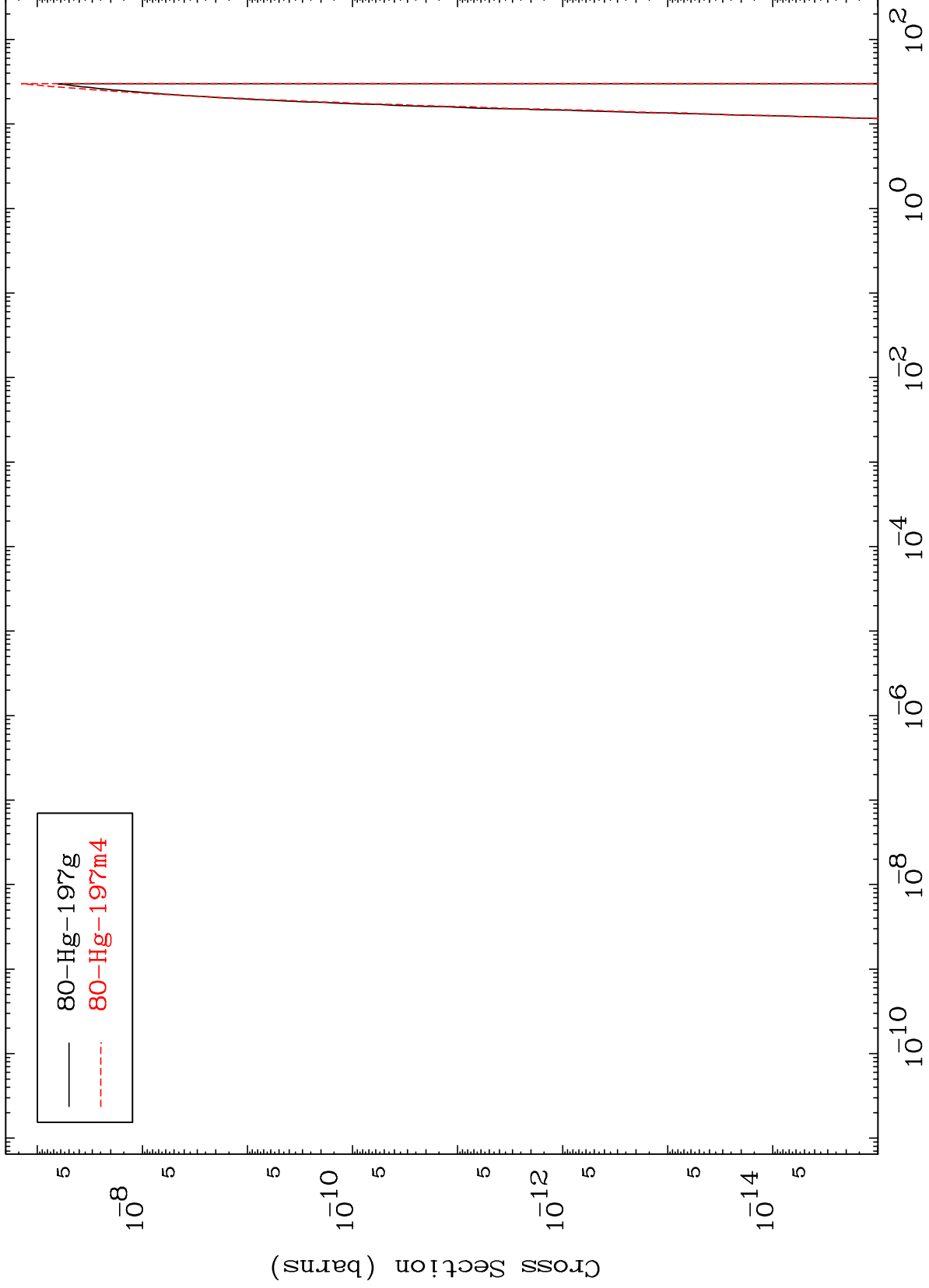
83-Bi-202

MAT 8304

(n,d) α

83-Bi-202

Radionuclide Production Cross Section



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

142

Incident Energy (MeV)

83-Bi-202