

Program EVALPLOT
(Version 2015-2)

by

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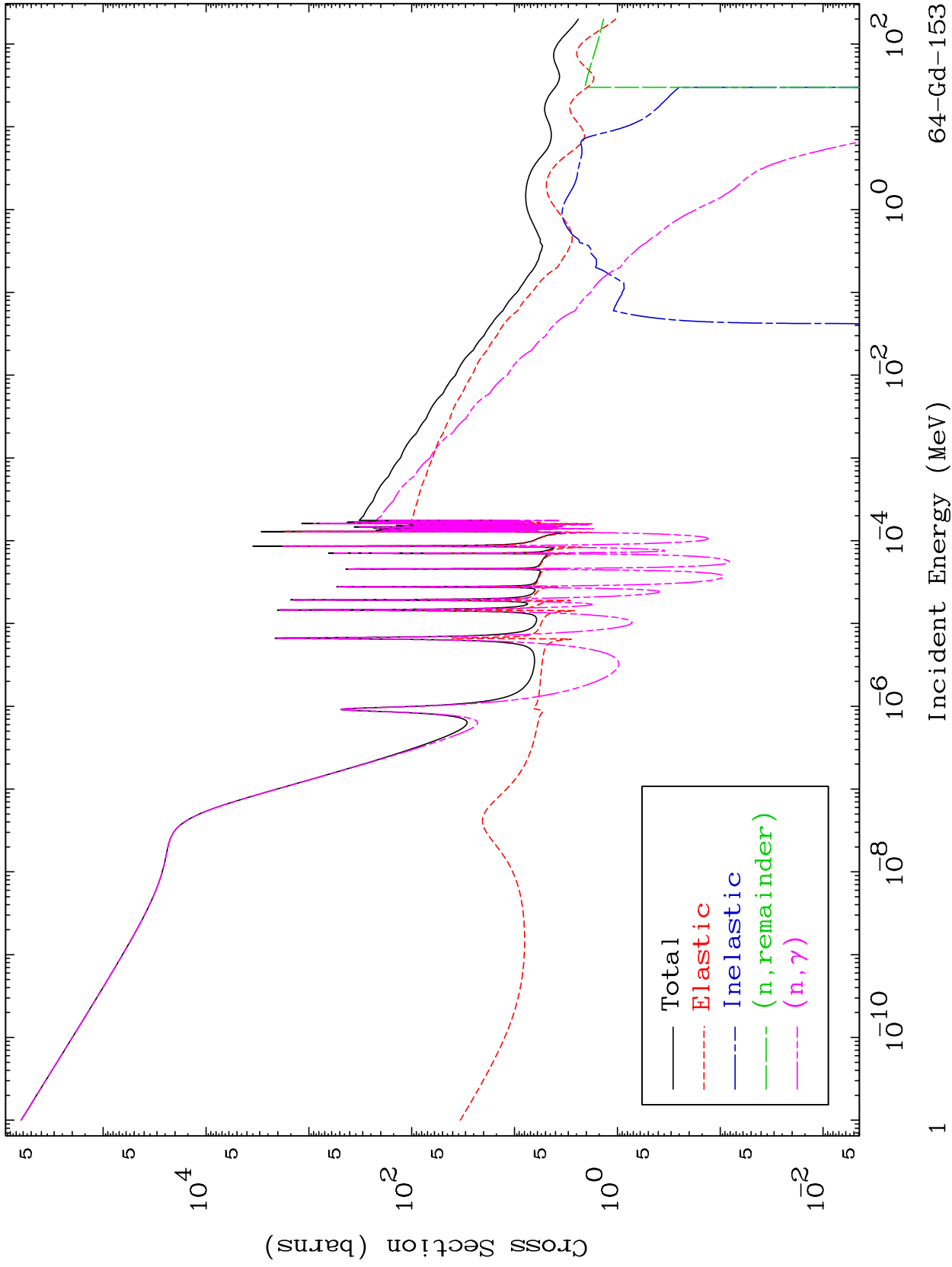
E.Mail:redcullen1@comcast.net
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 6428

Major
293 Kelvin Cross Sections

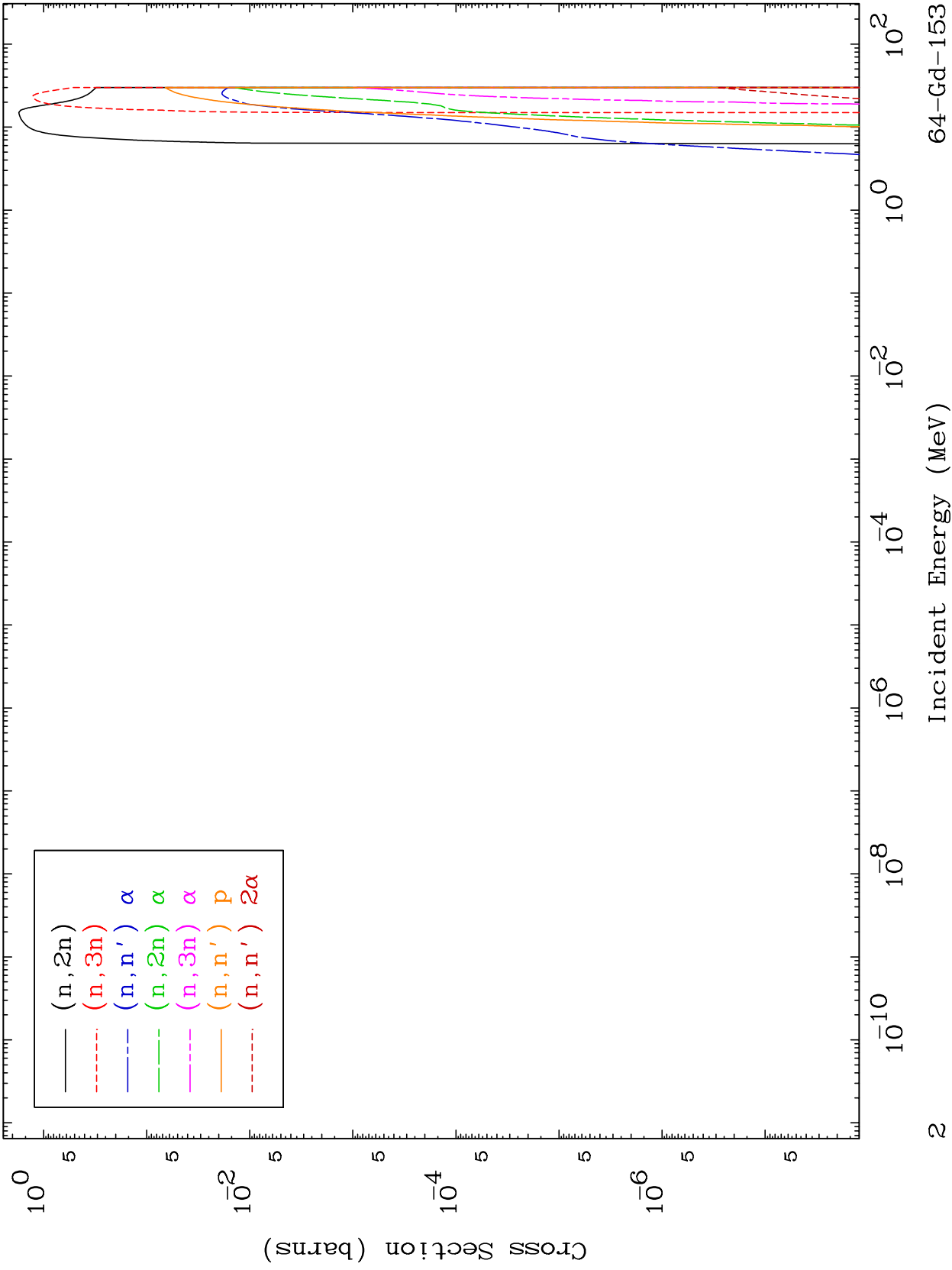
64-Gd-153

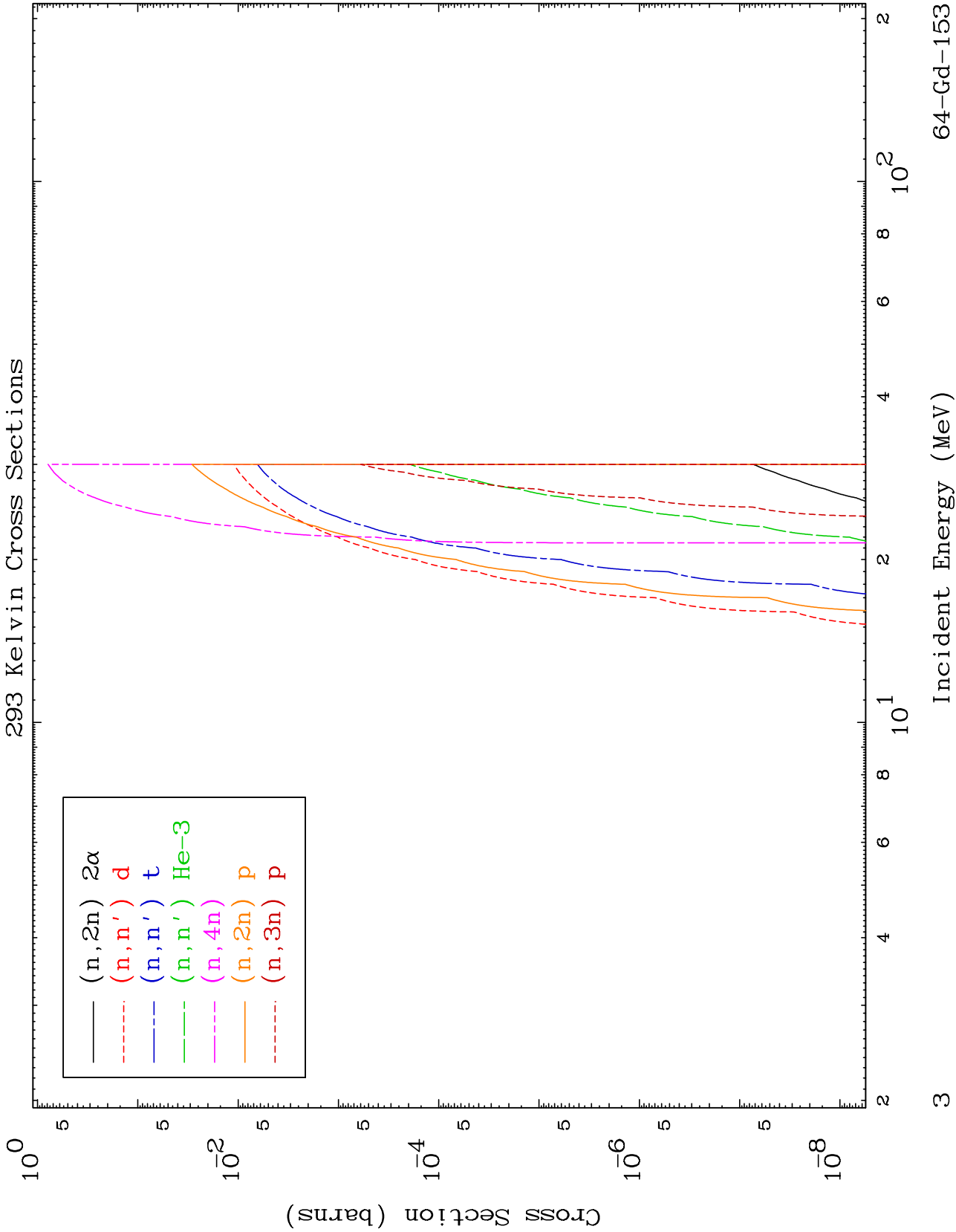


MAT 6428

Neutron Production
293 Kelvin Cross Sections

64-Gd-153

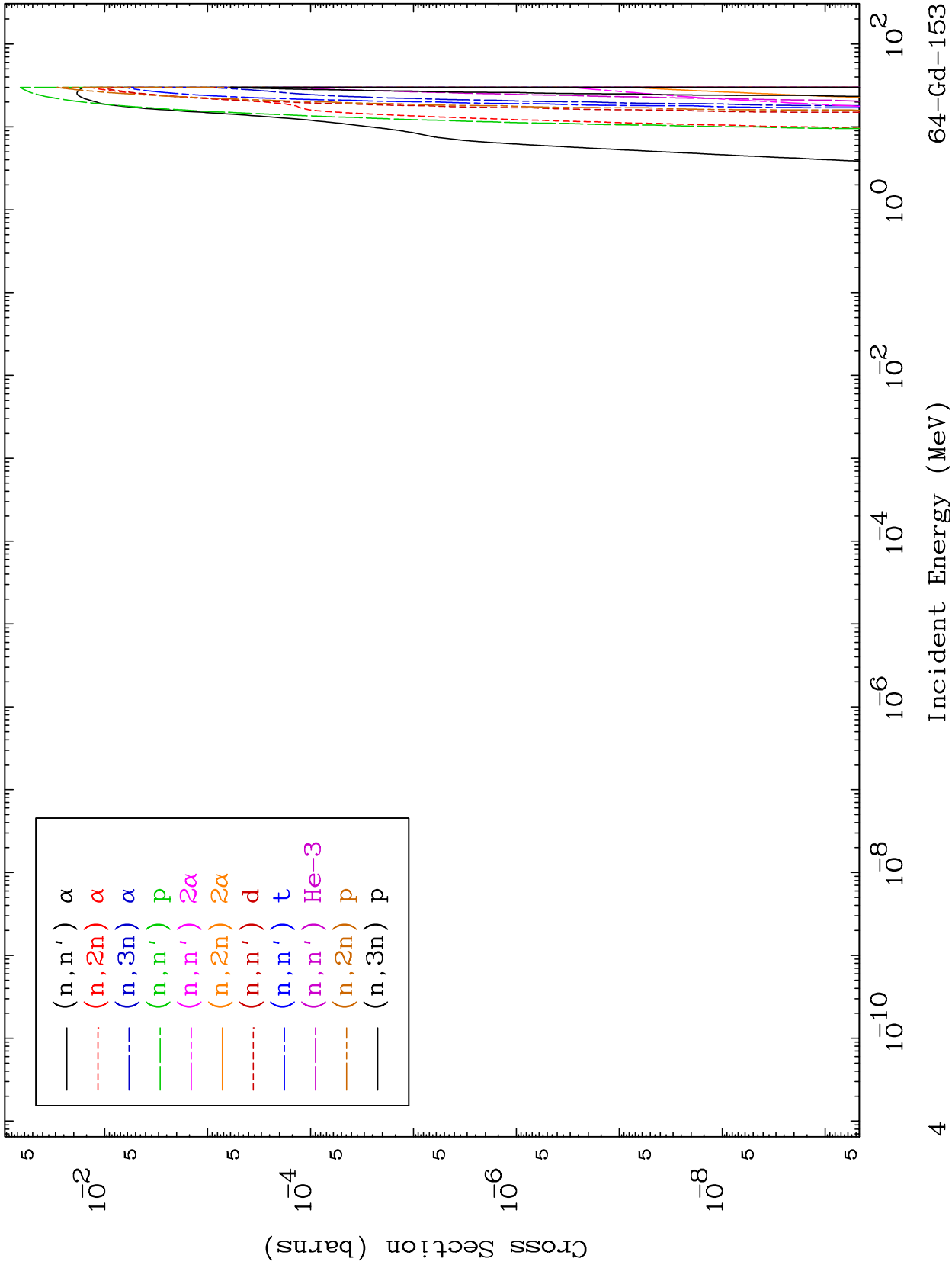




MAT 6428

Charged Particle
293 Kelvin Cross Sections

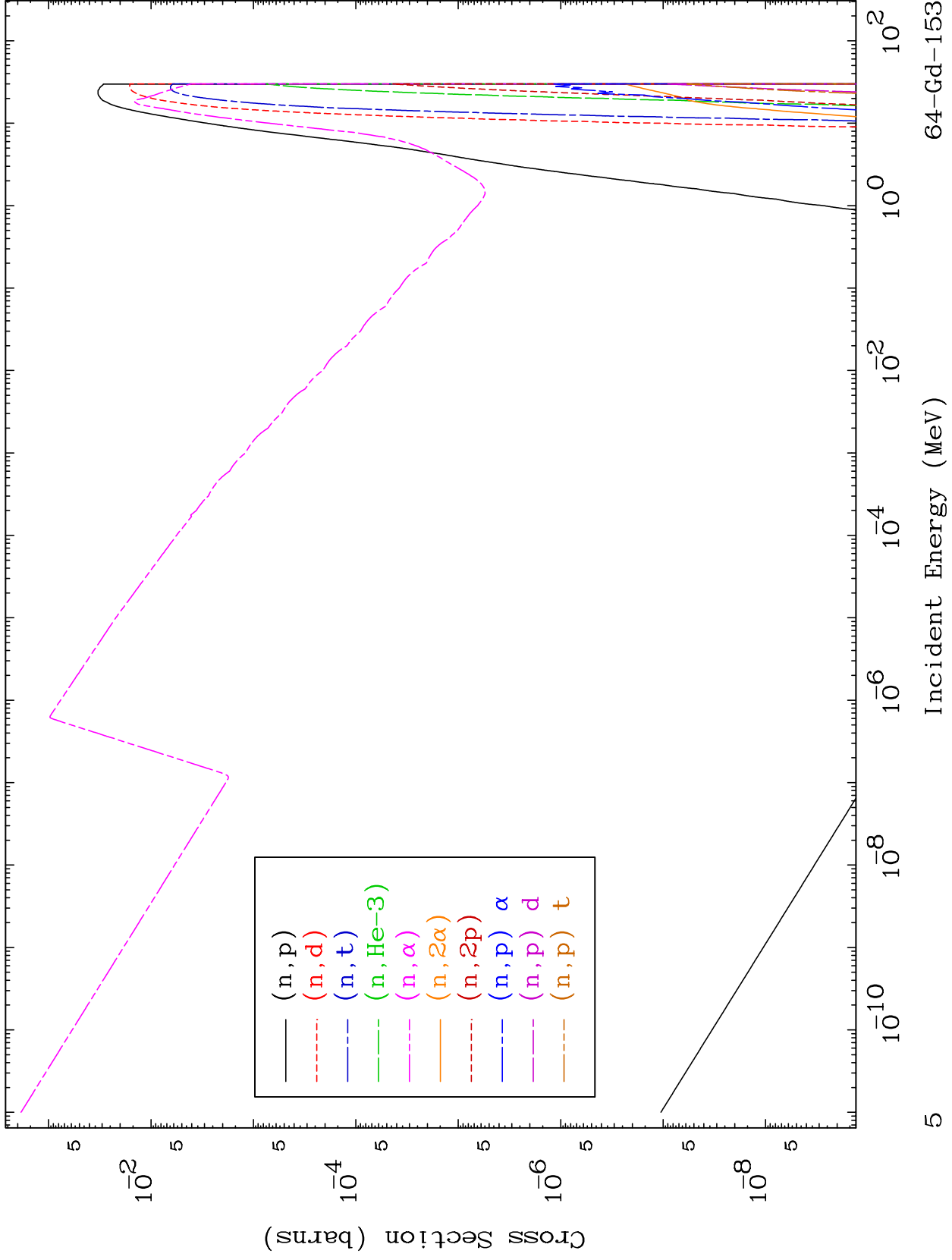
64-Gd-153



MAT 6428

Charged Particle
293 Kelvin Cross Sections

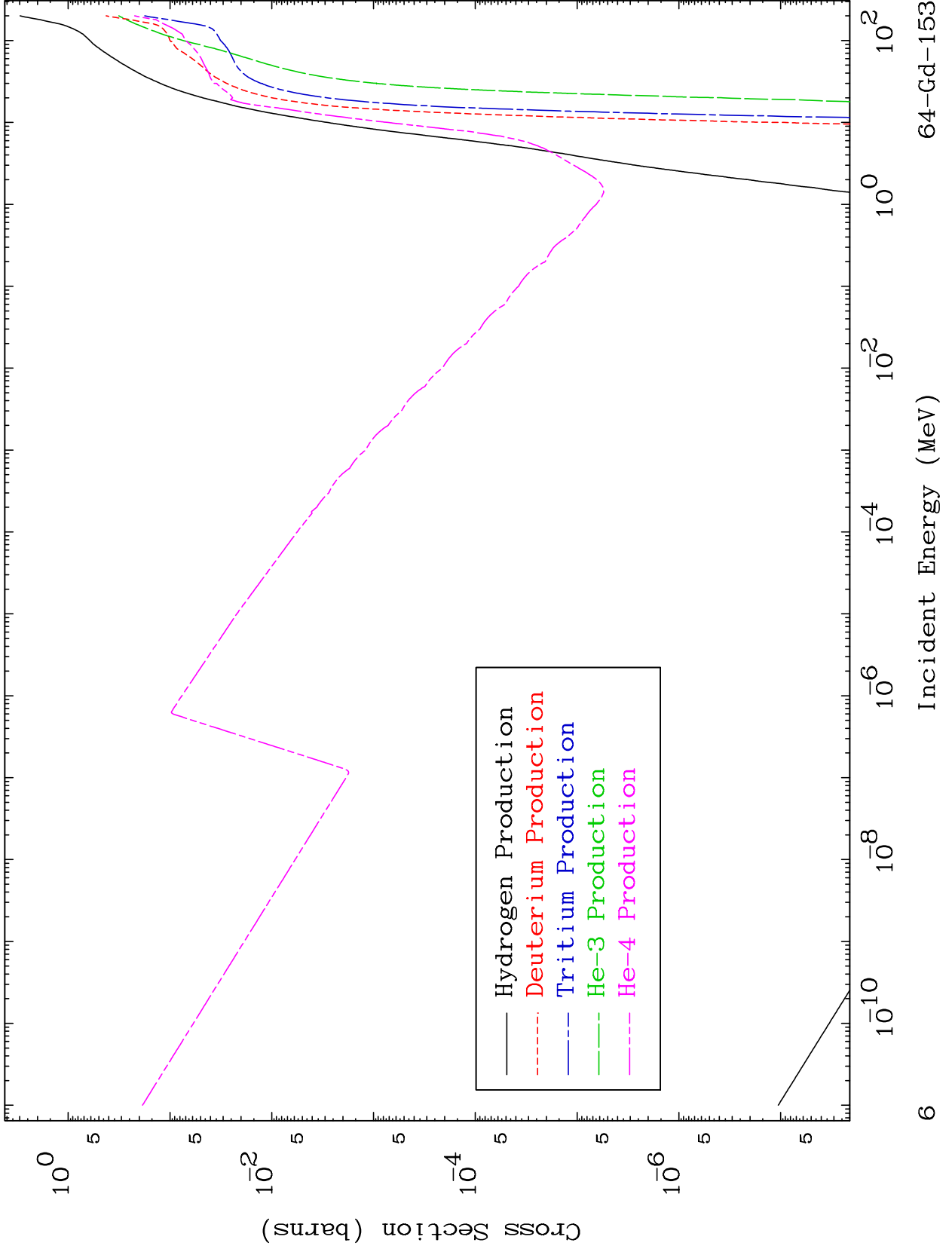
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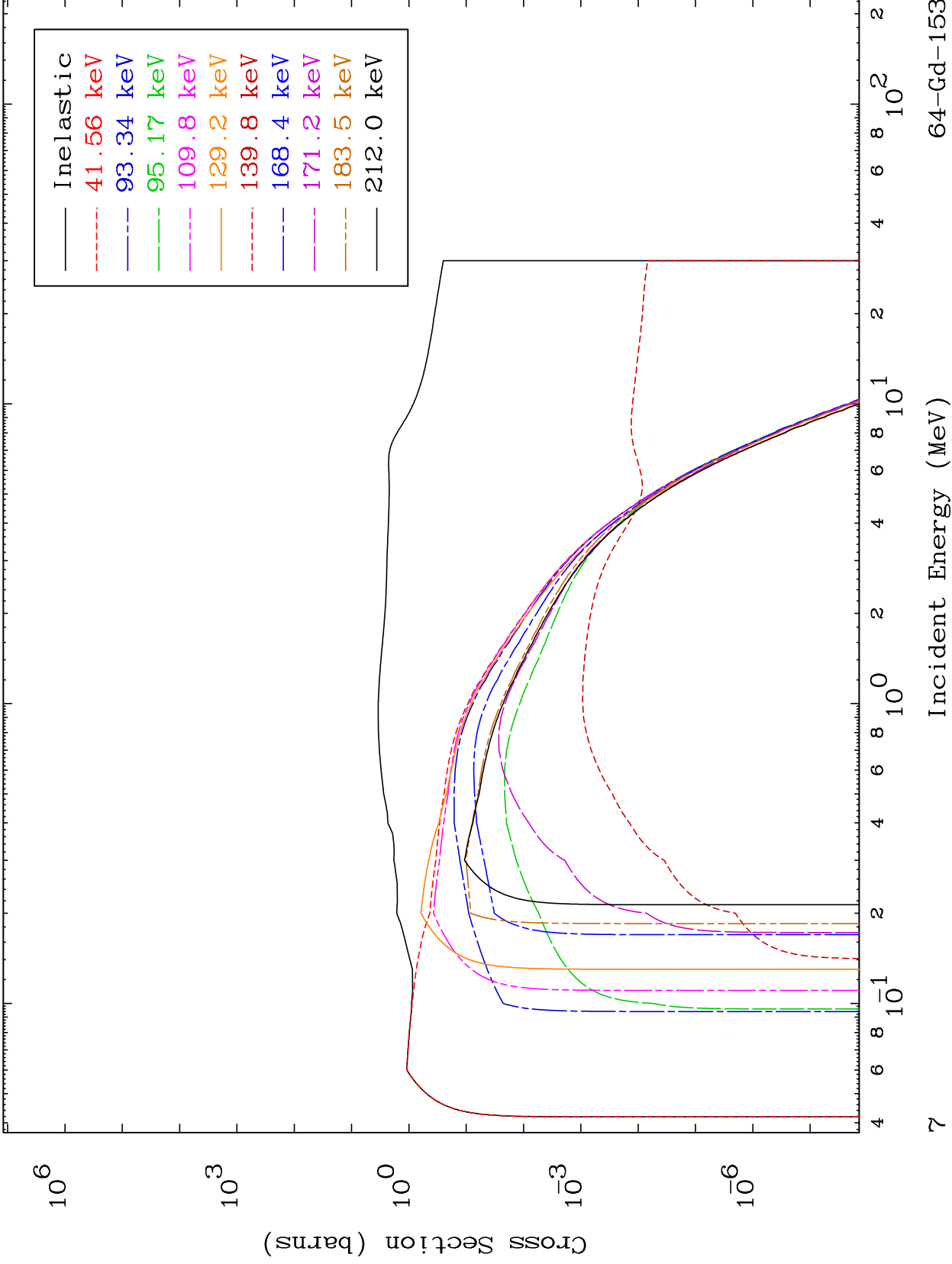


MAT 6428

Particle Production
293 Kelvin Cross Sections

64-Gd-153

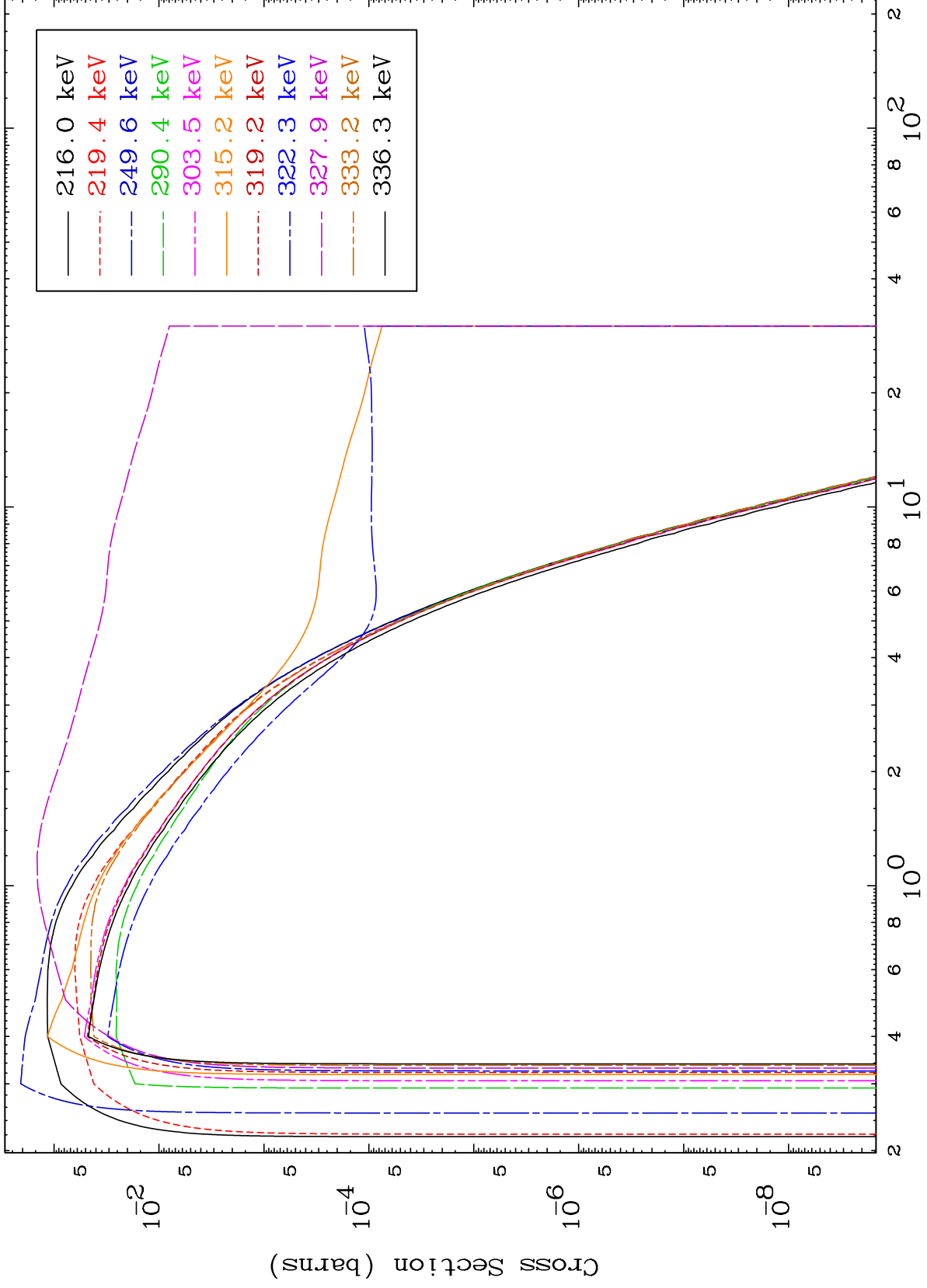




MAT 6428

(n,n') Level
293 Kelvin Cross Sections

64-Gd-153



8

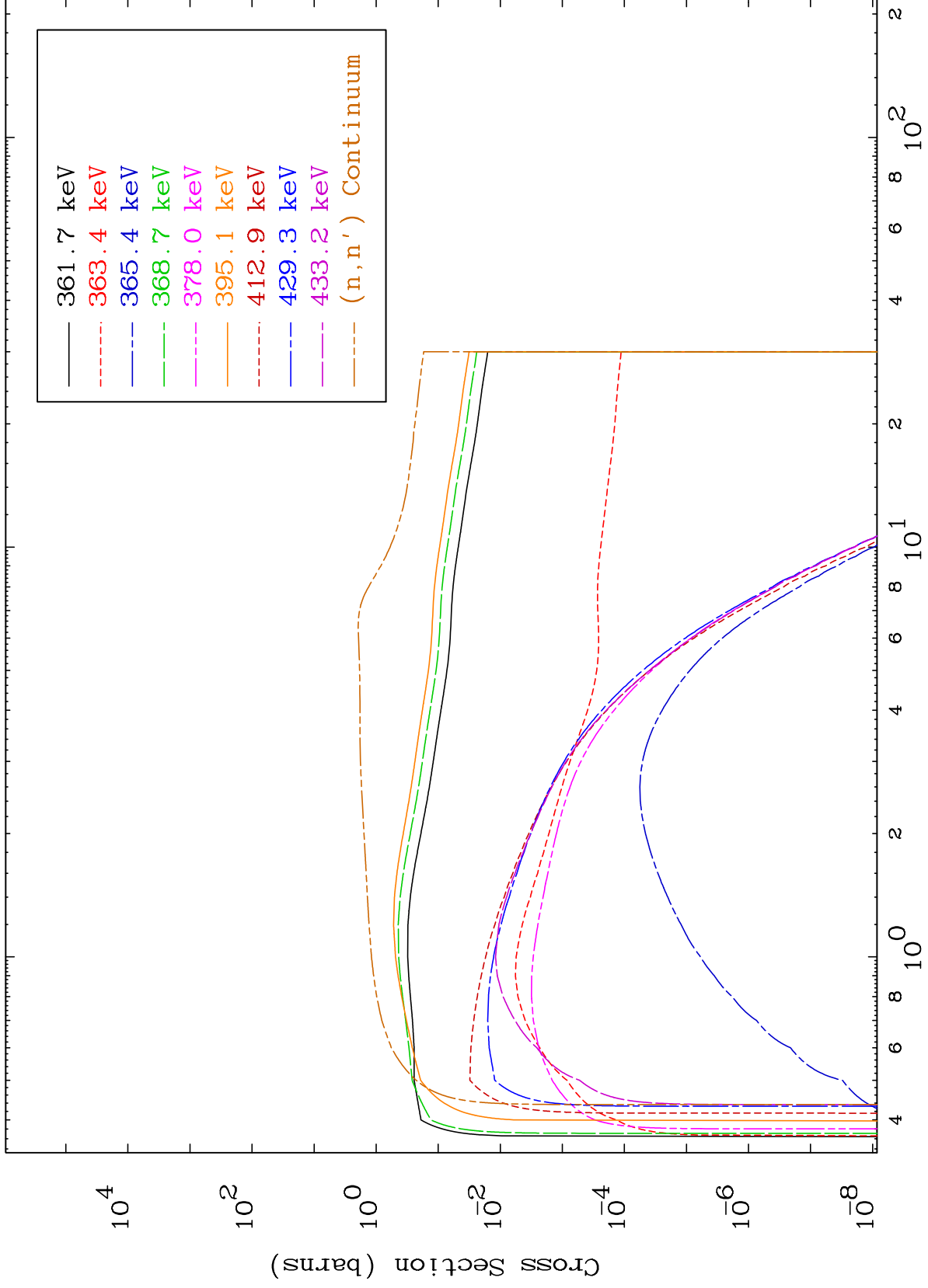
Incident Energy (MeV)

64-Gd-153

MAT 6428

(n,n') Level
293 Kelvin Cross Sections

64-Gd-153



9

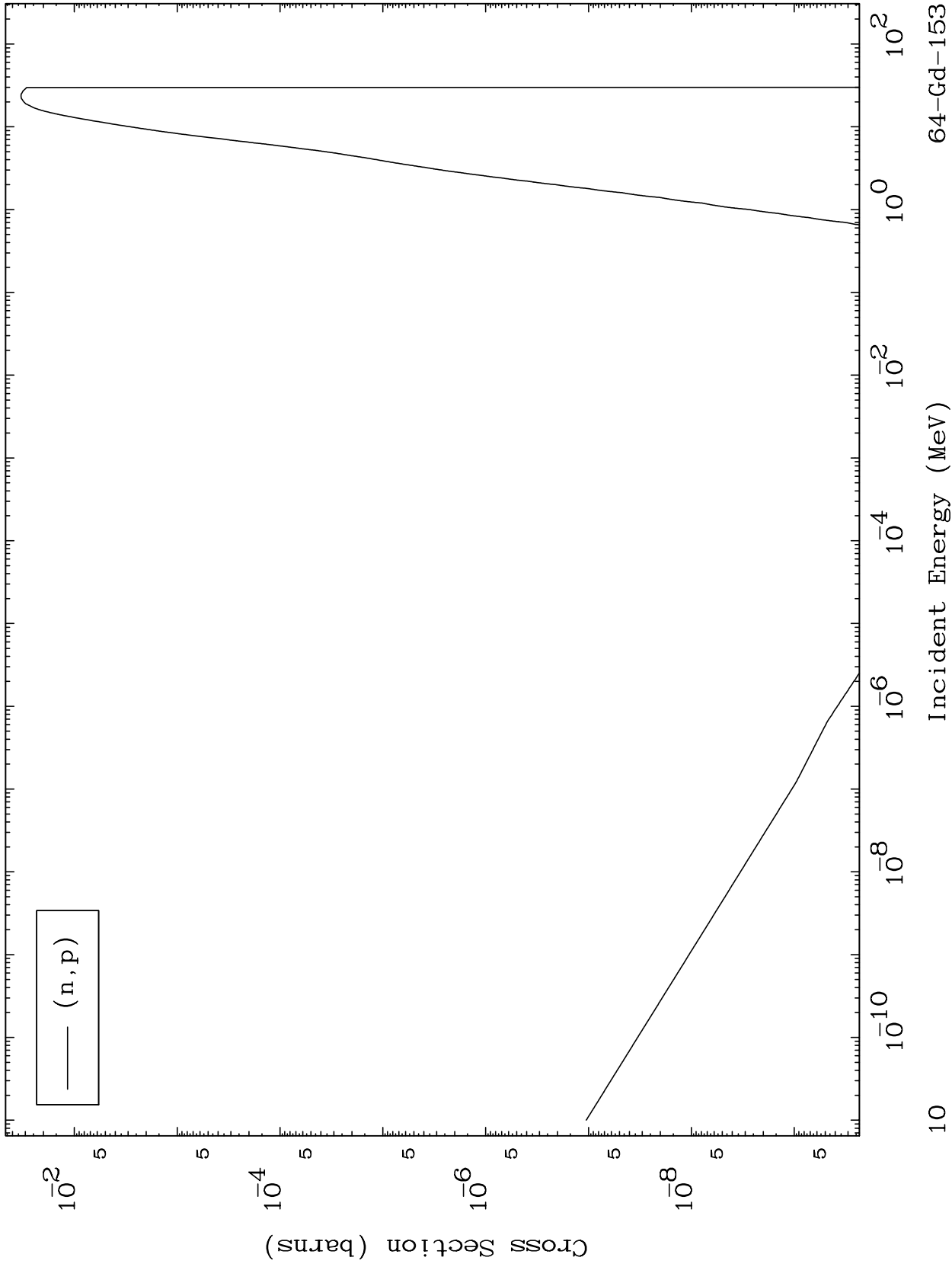
Incident Energy (MeV)

64-Gd-153

MAT 6428

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-153



10

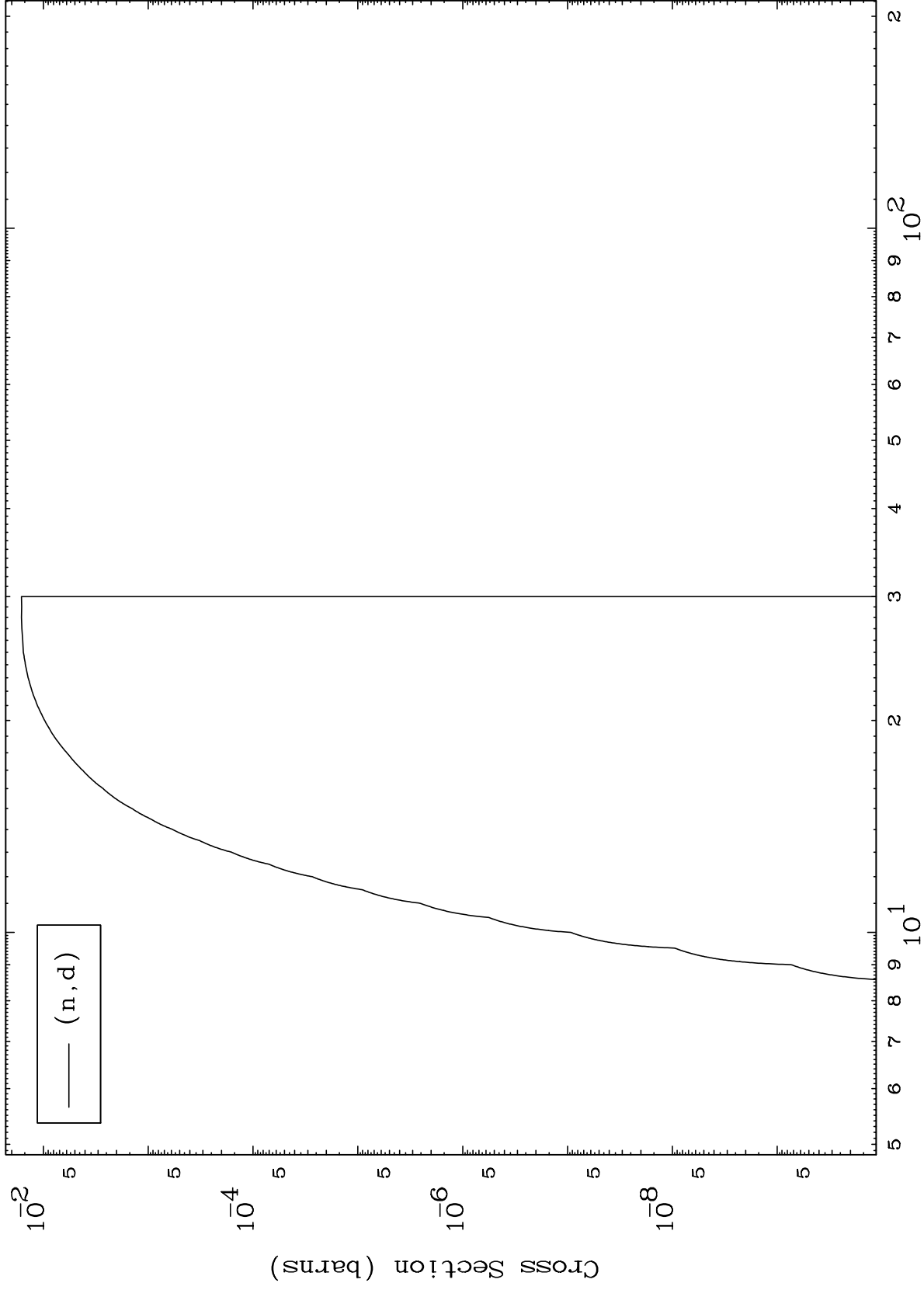
Incident Energy (MeV)

64-Gd-153

MAT 6428

(n,d) Levels
293 Kelvin Cross Sections

64-Gd-153



11

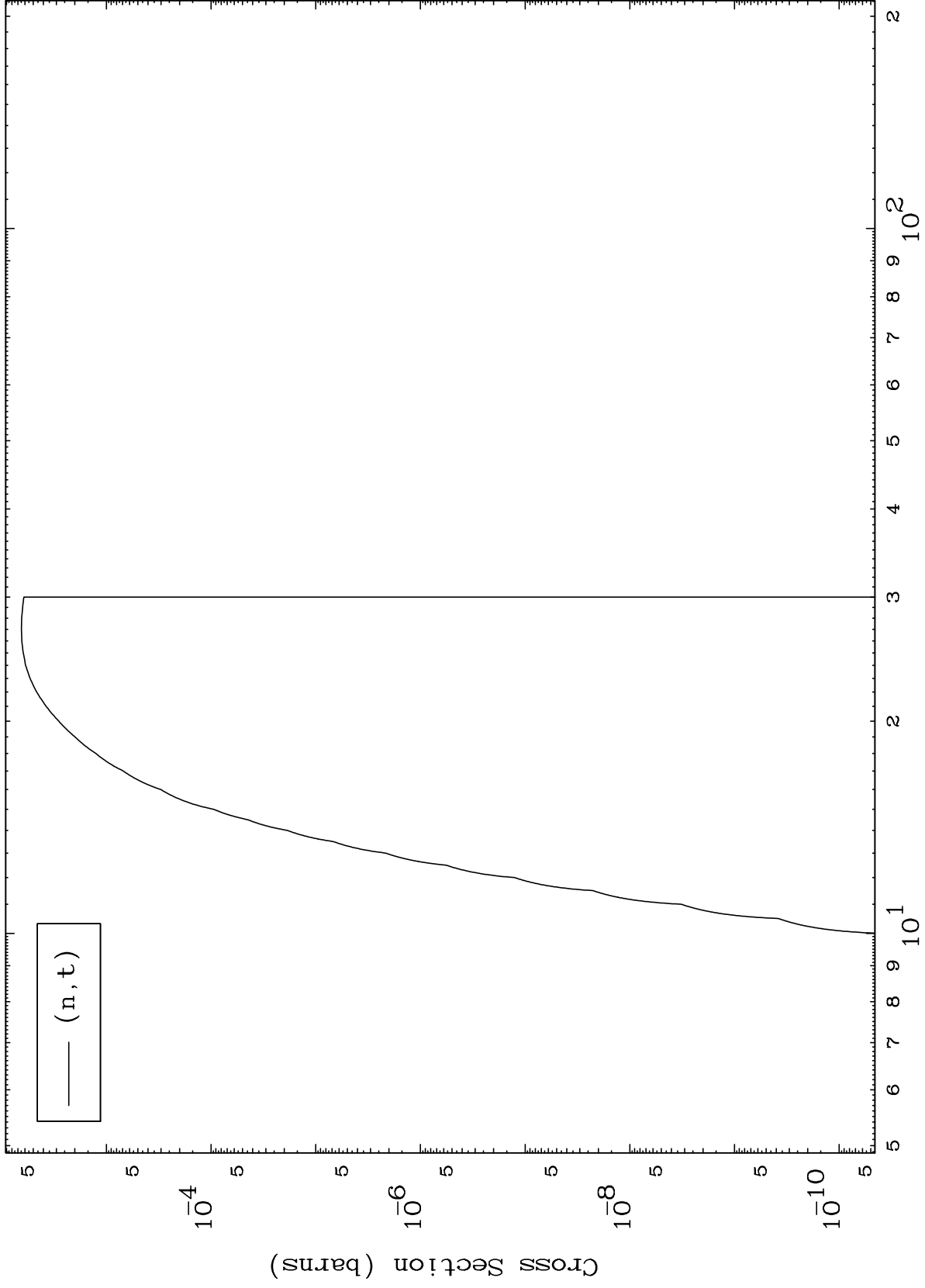
Incident Energy (MeV)

64-Gd-153

MAT 6428

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-153



12

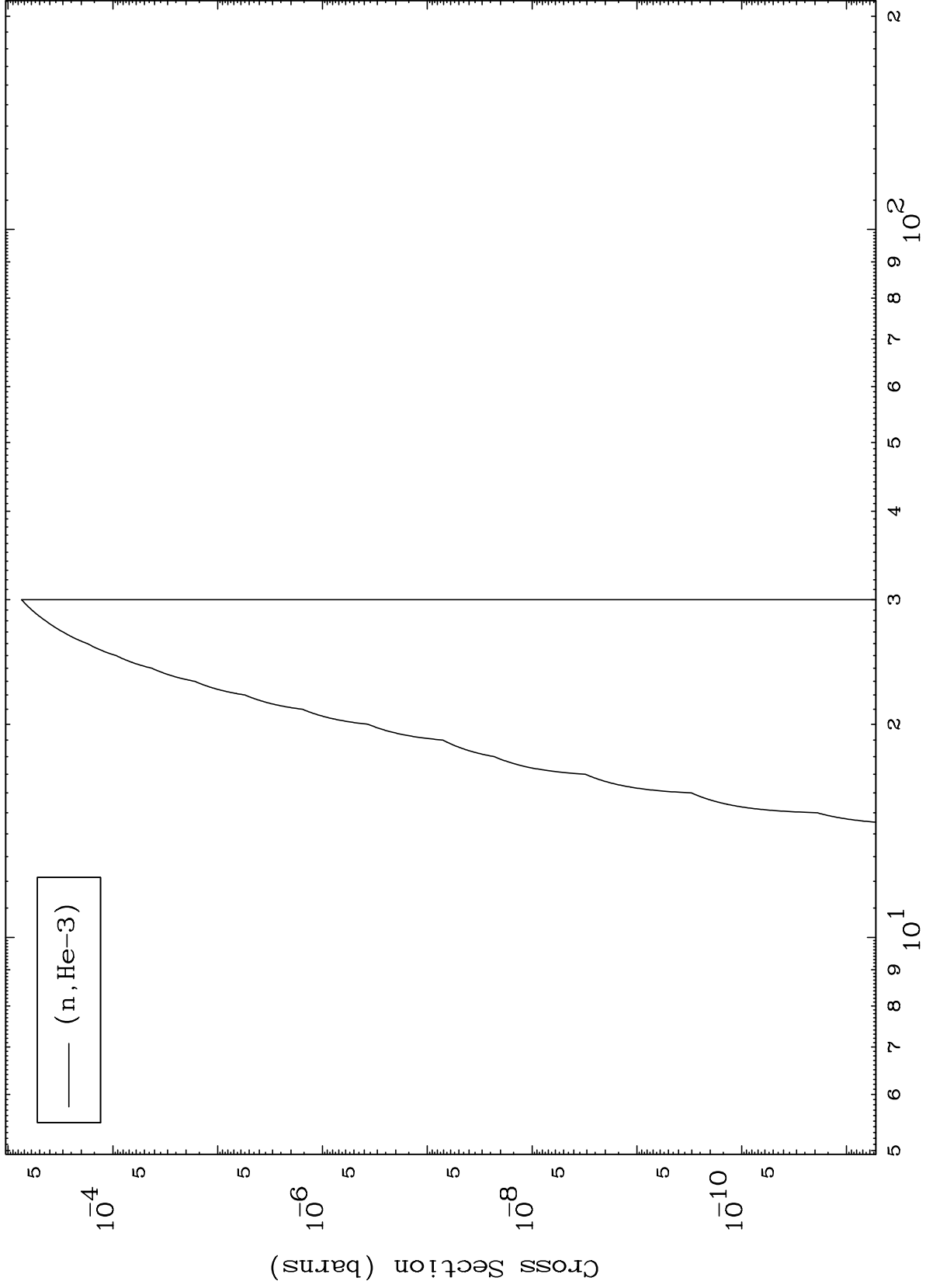
Incident Energy (MeV)

64-Gd-153

MAT 6428

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-153



13

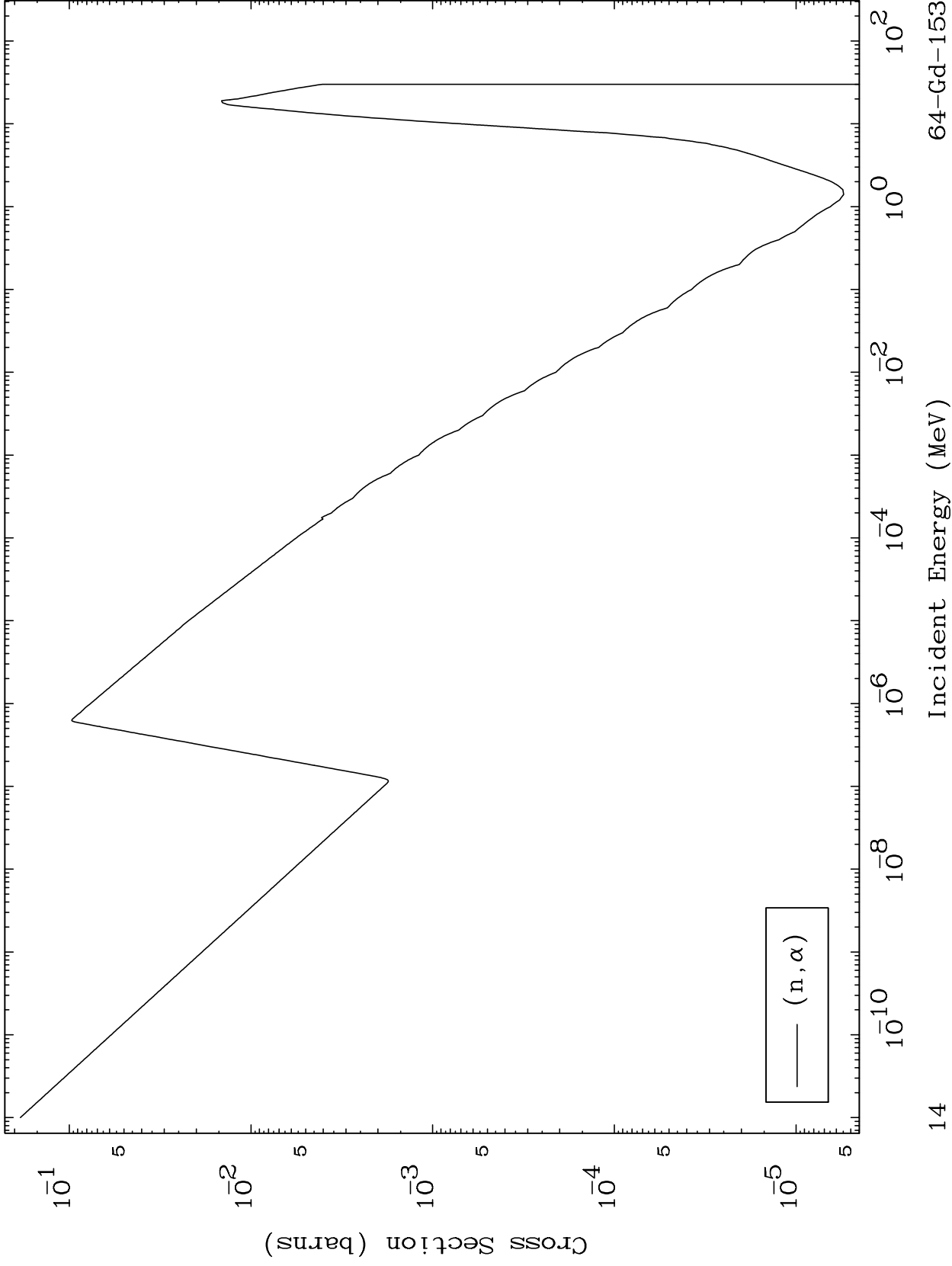
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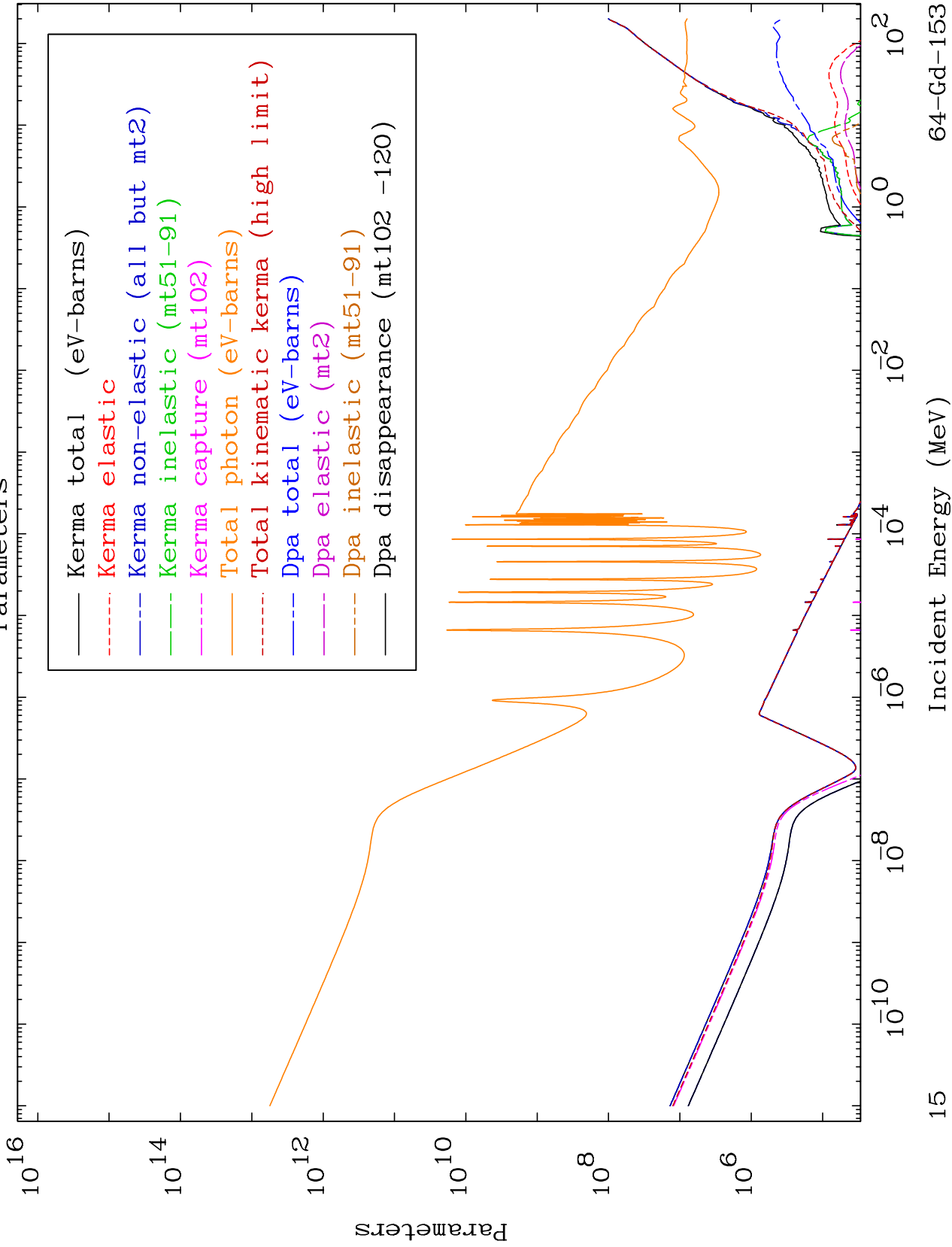
64-Gd-153

MAT 6428

(n, α) Levels
293 Kelvin Cross Sections

64-Gd-153

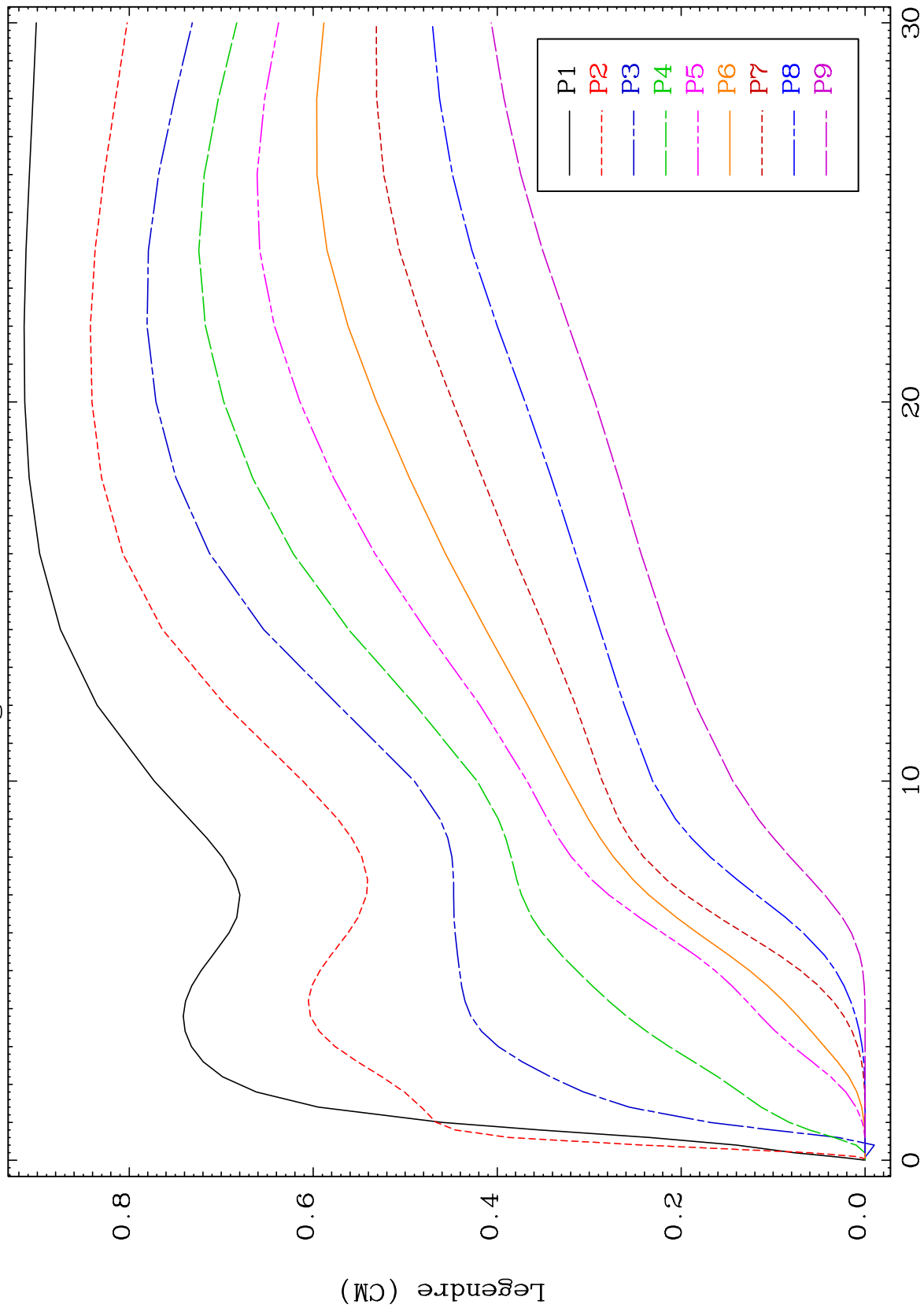




MAT 6428

Elastic Legendre Coefficients

64-Gd-153



16

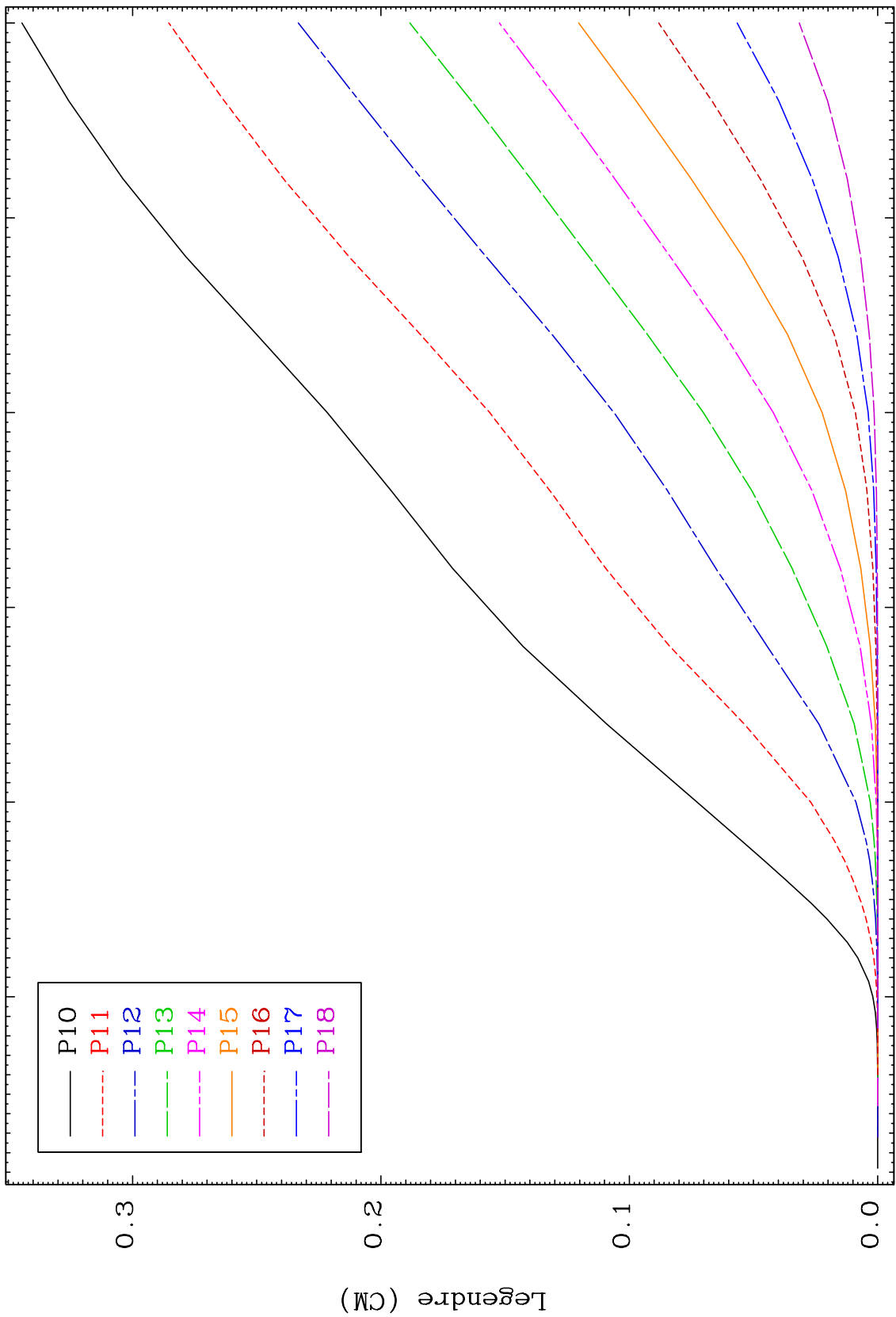
Incident Energy (MeV)

64-Gd-153

MAT 6428

Elastic Legendre Coefficients

64-Gd-153



17

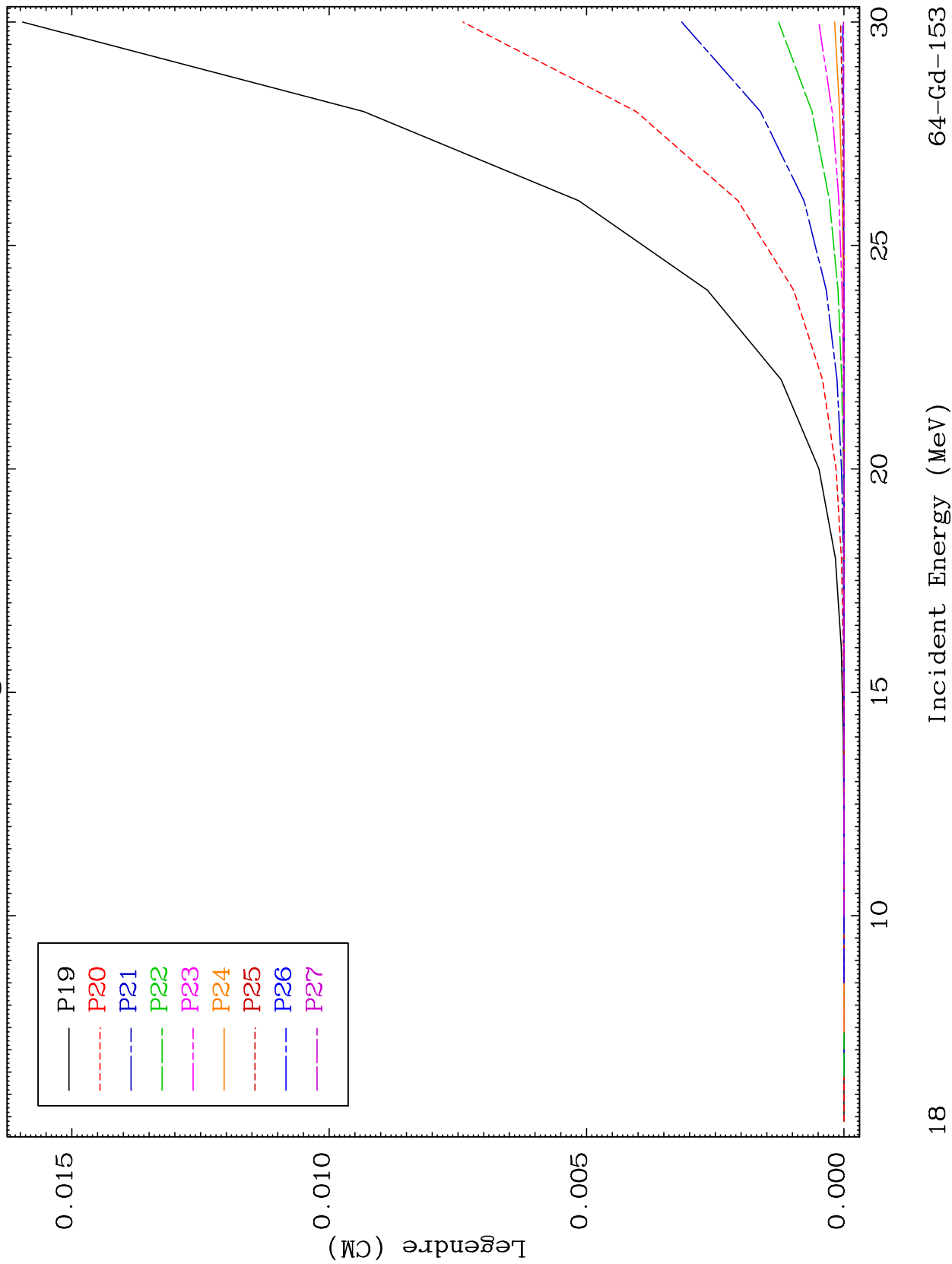
Incident Energy (MeV)

64-Gd-153

MAT 6428

Elastic Legendre Coefficients

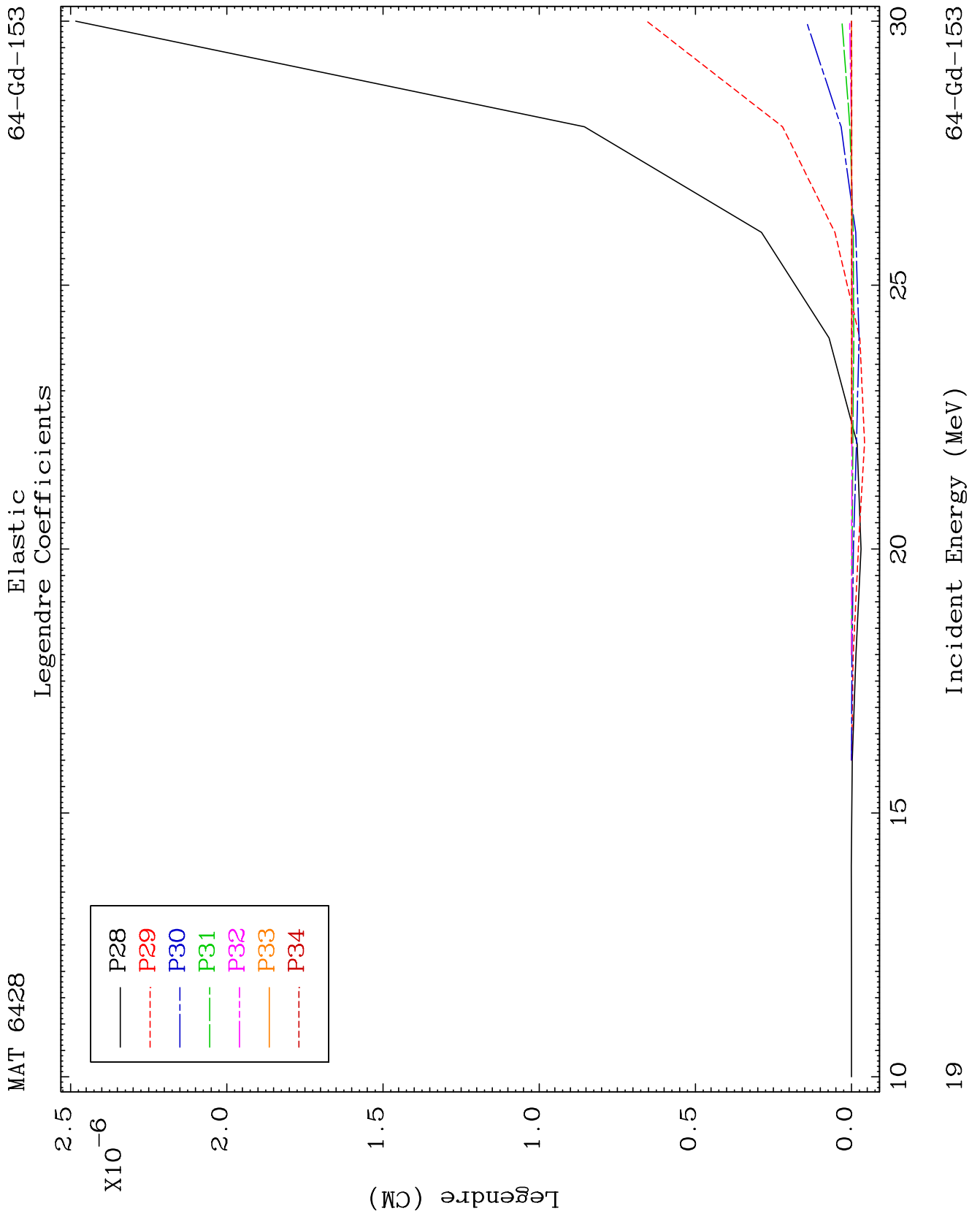
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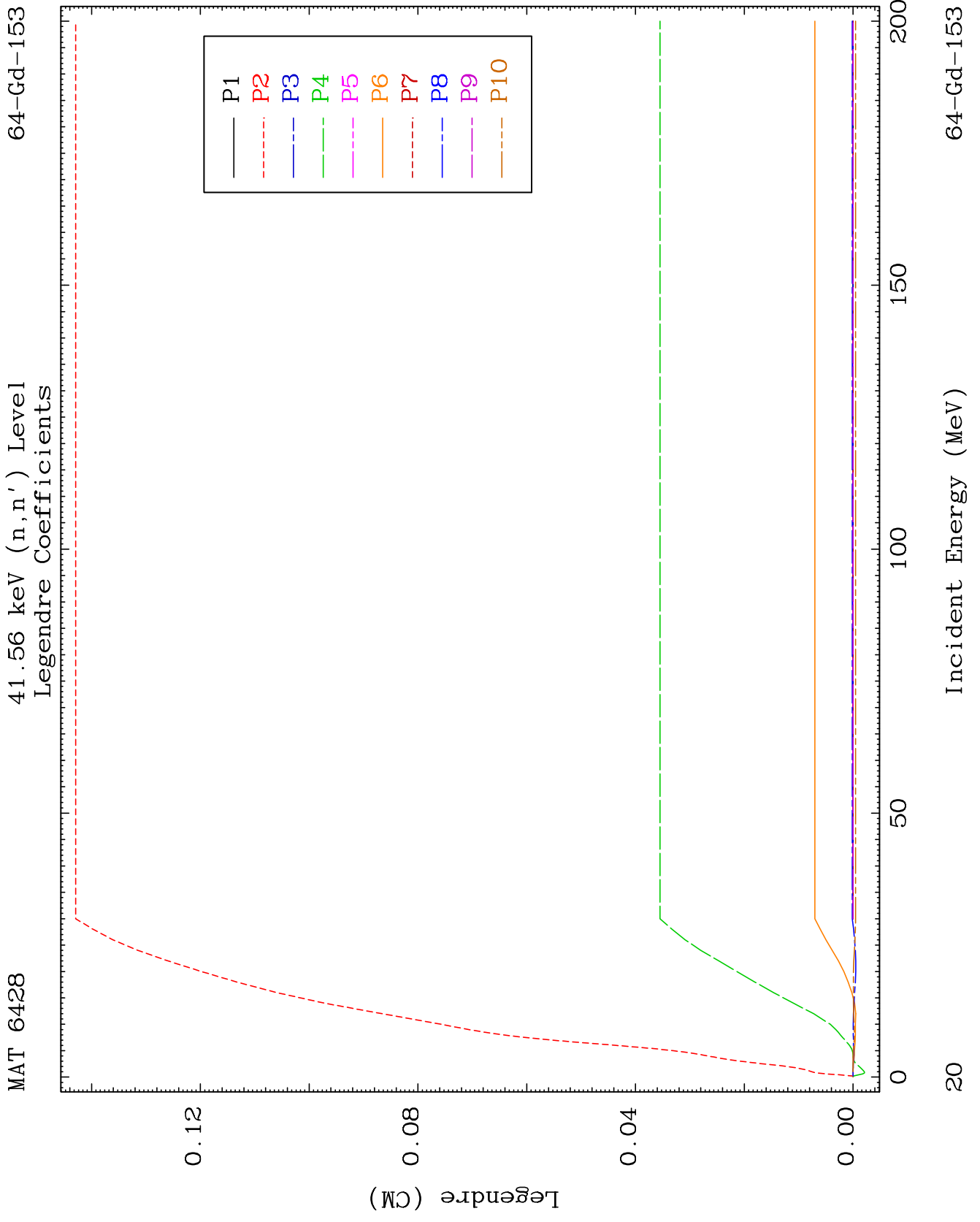


18

Incident Energy (MeV)

64-Gd-153

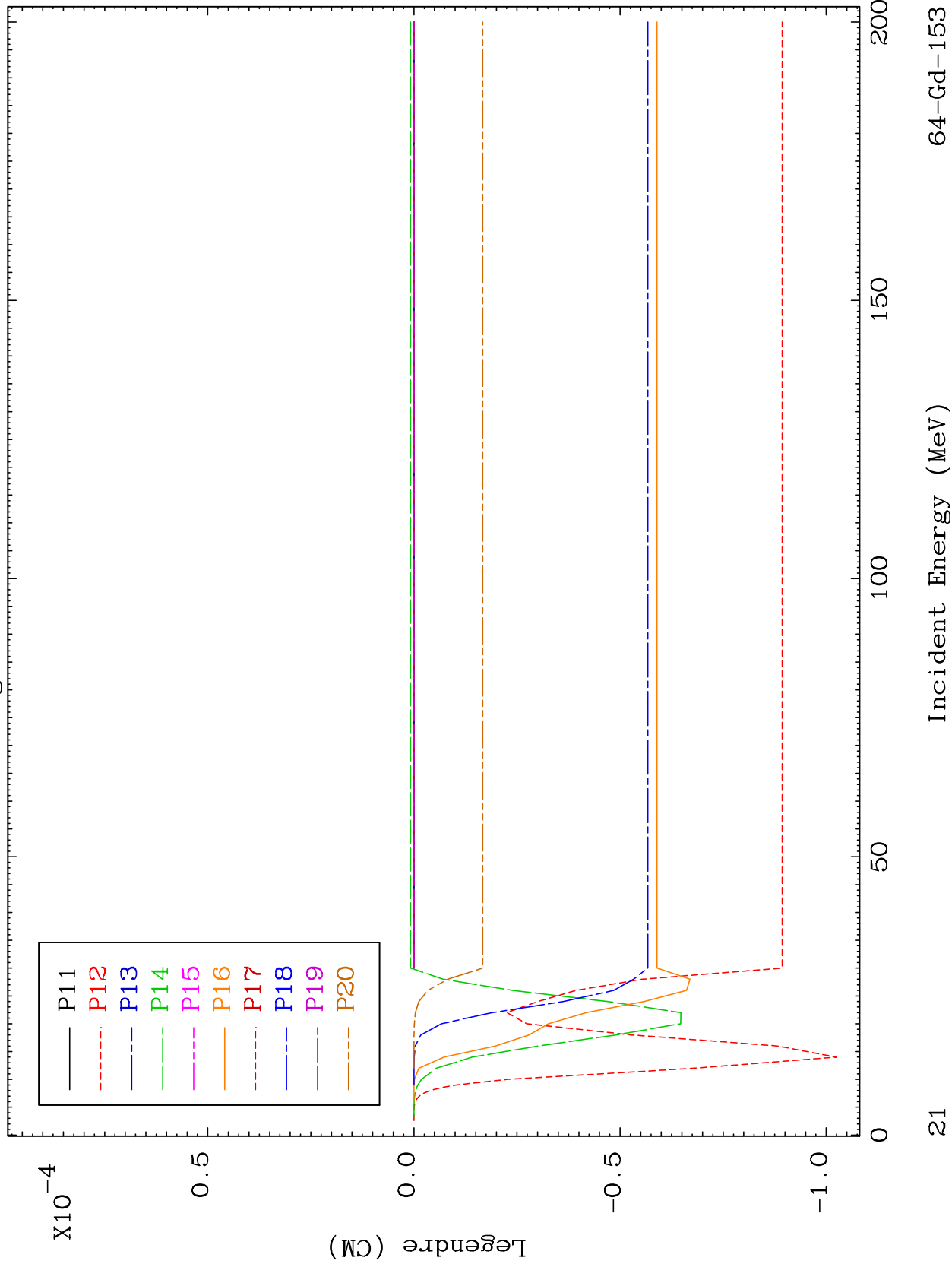




MAT 6428

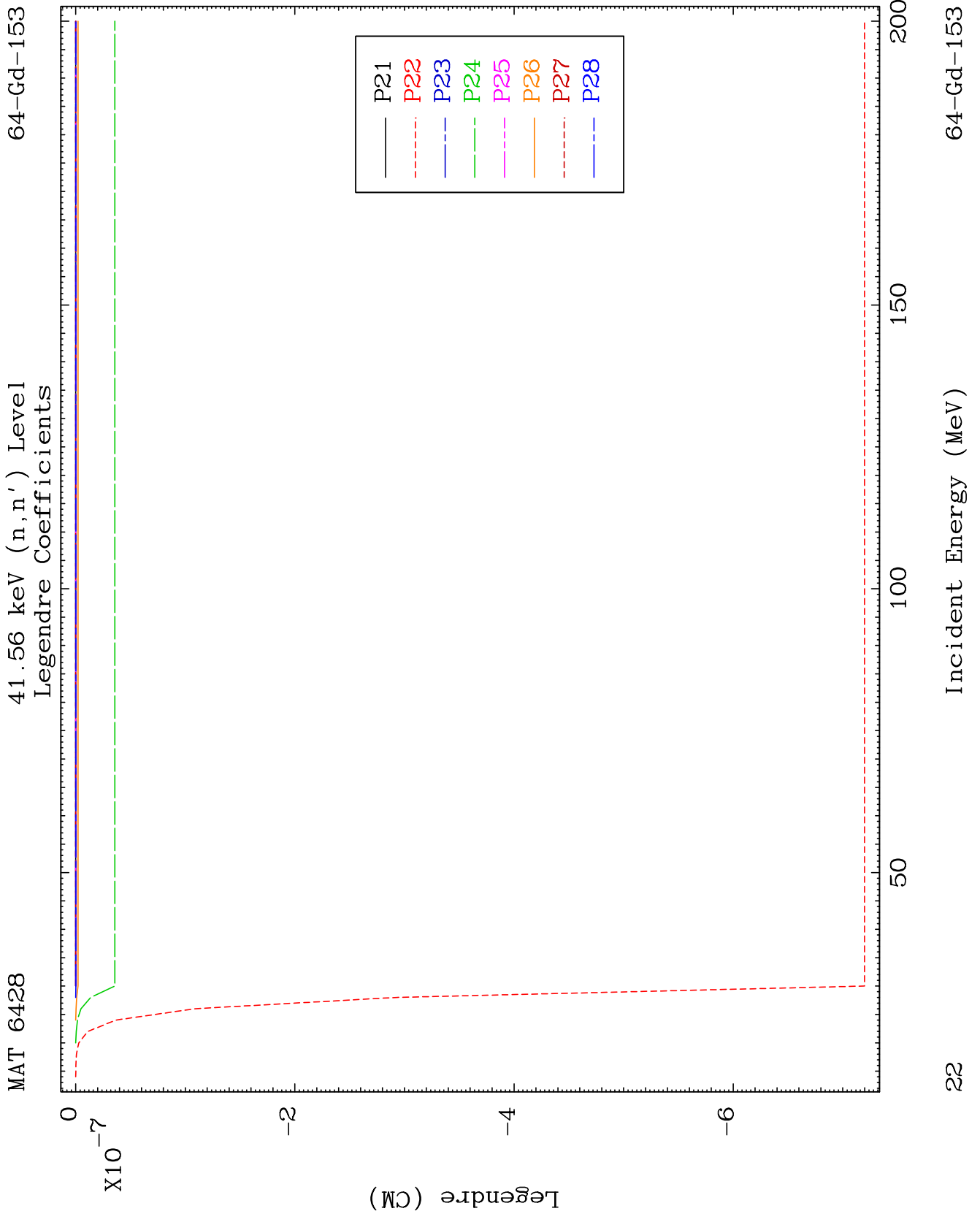
41.56 keV (n,n') Level
Legendre Coefficients

64-Gd-153



21

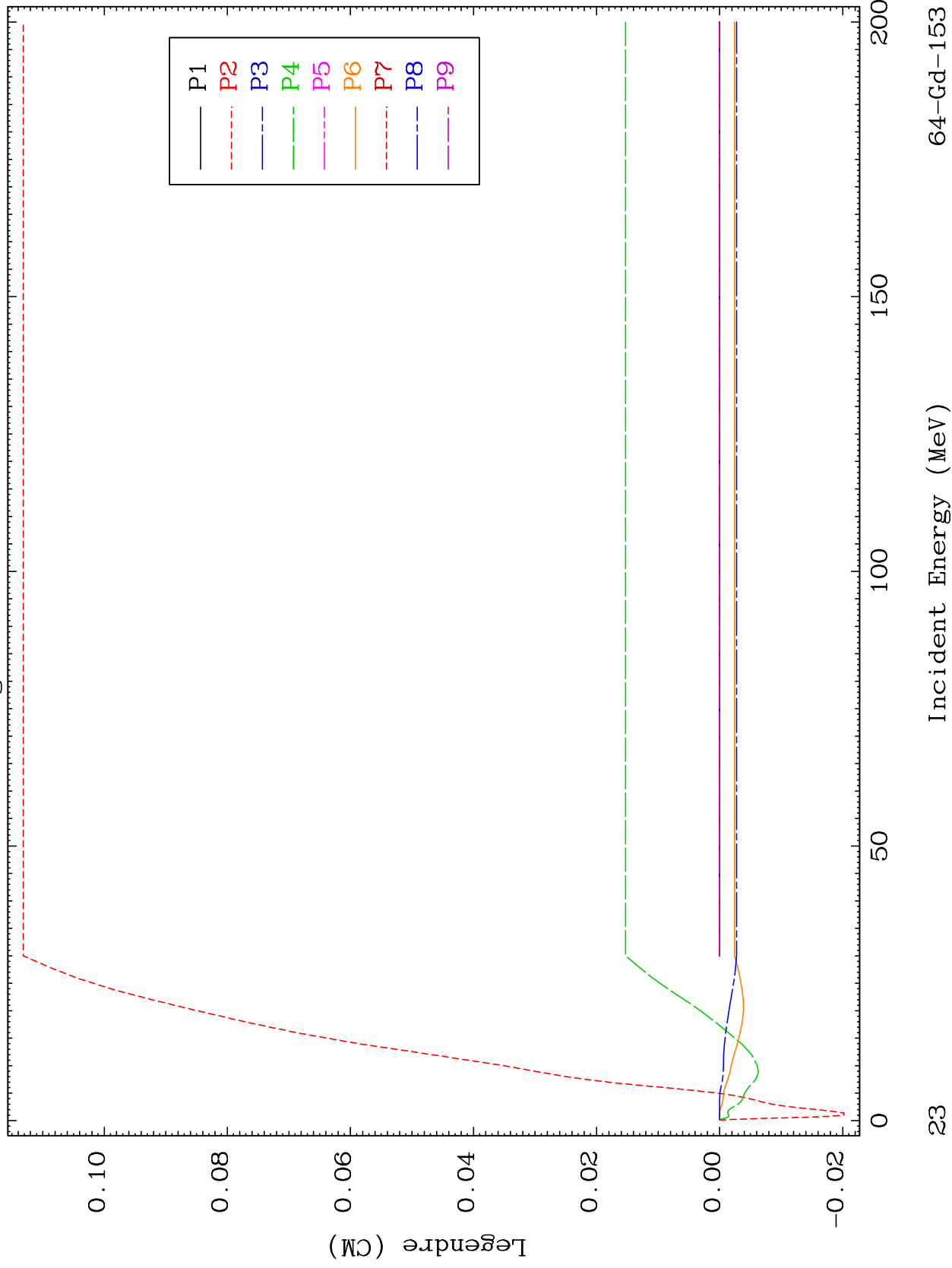
64-Gd-153



MAT 6428

93.34 keV (n,n') Level
Legendre Coefficients

64-Gd-153



64-Gd-153

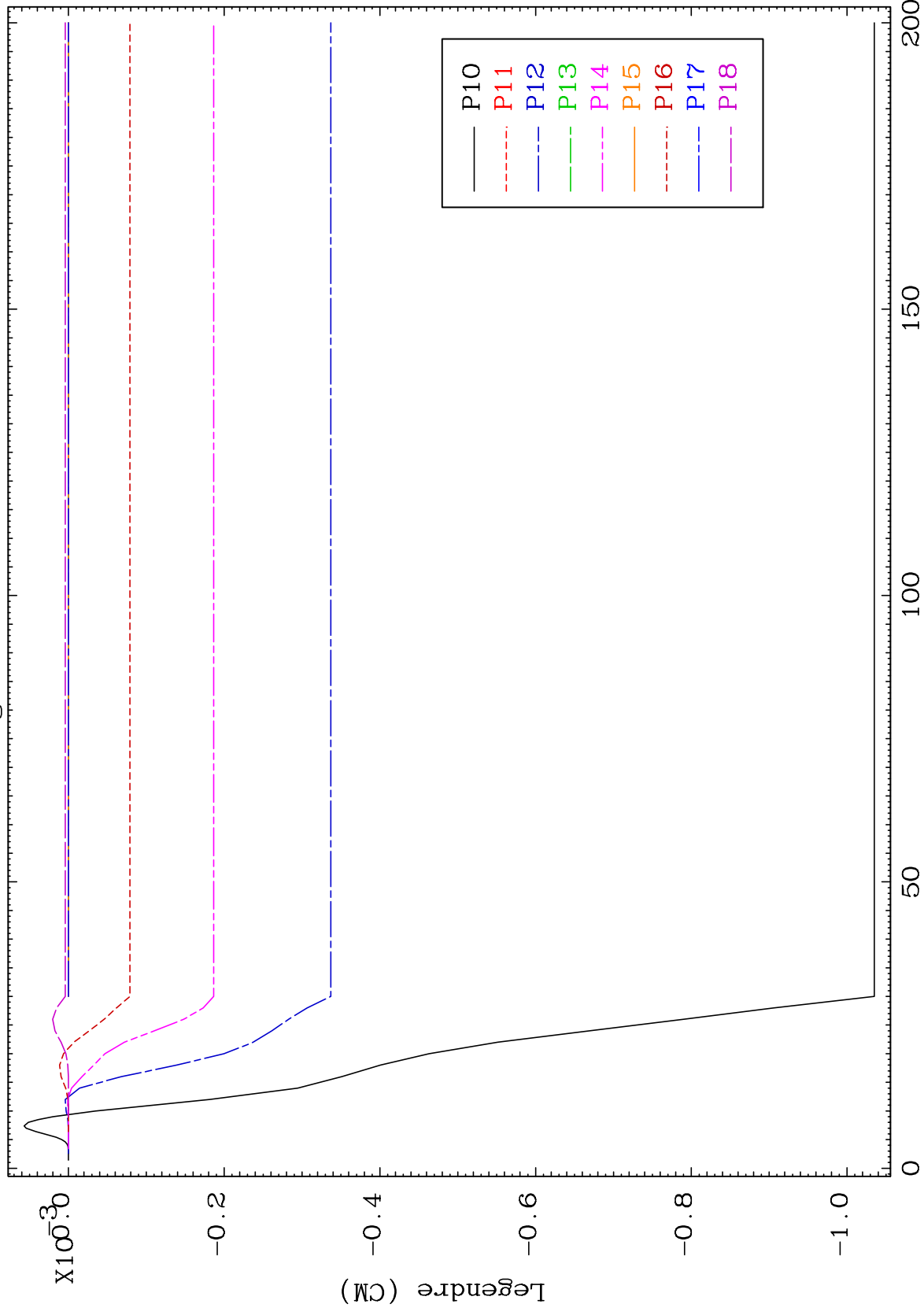
Incident Energy (MeV)

23

MAT 6428

93.34 keV (n,n') Level
Legendre Coefficients

64-Gd-153



24

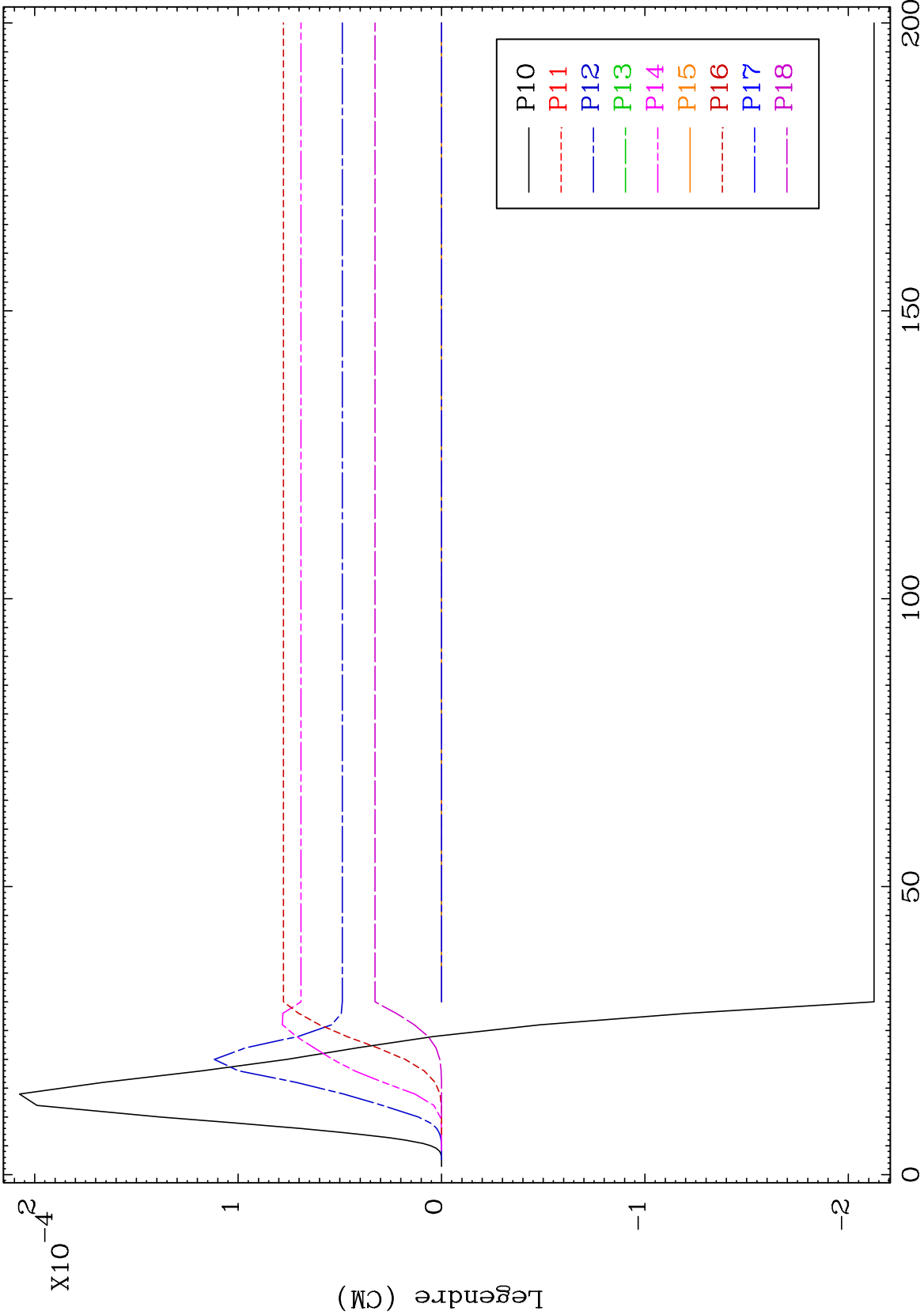
Incident Energy (MeV)

64-Gd-153

MAT 6428

95.17 keV (n,n') Level
Legendre Coefficients

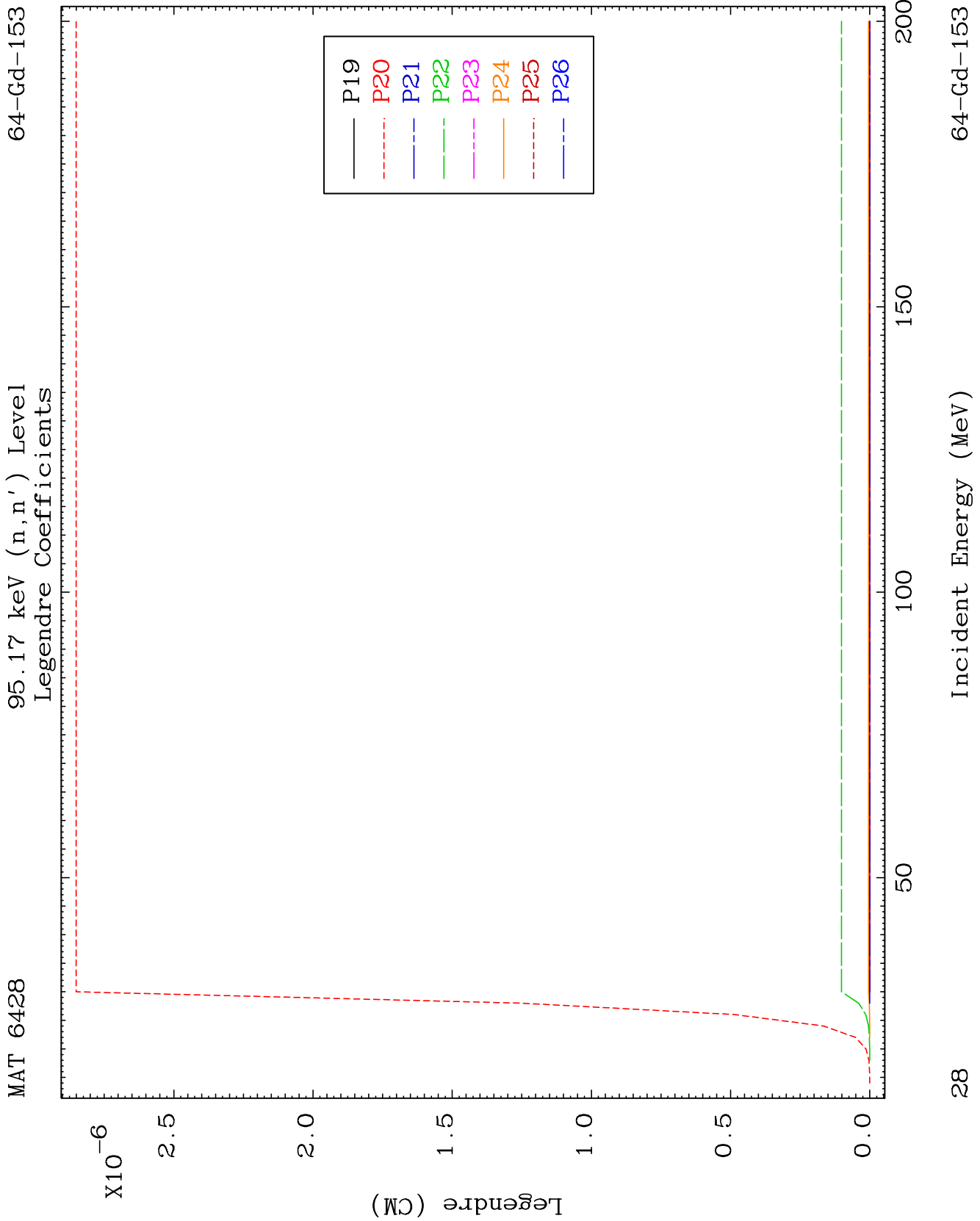
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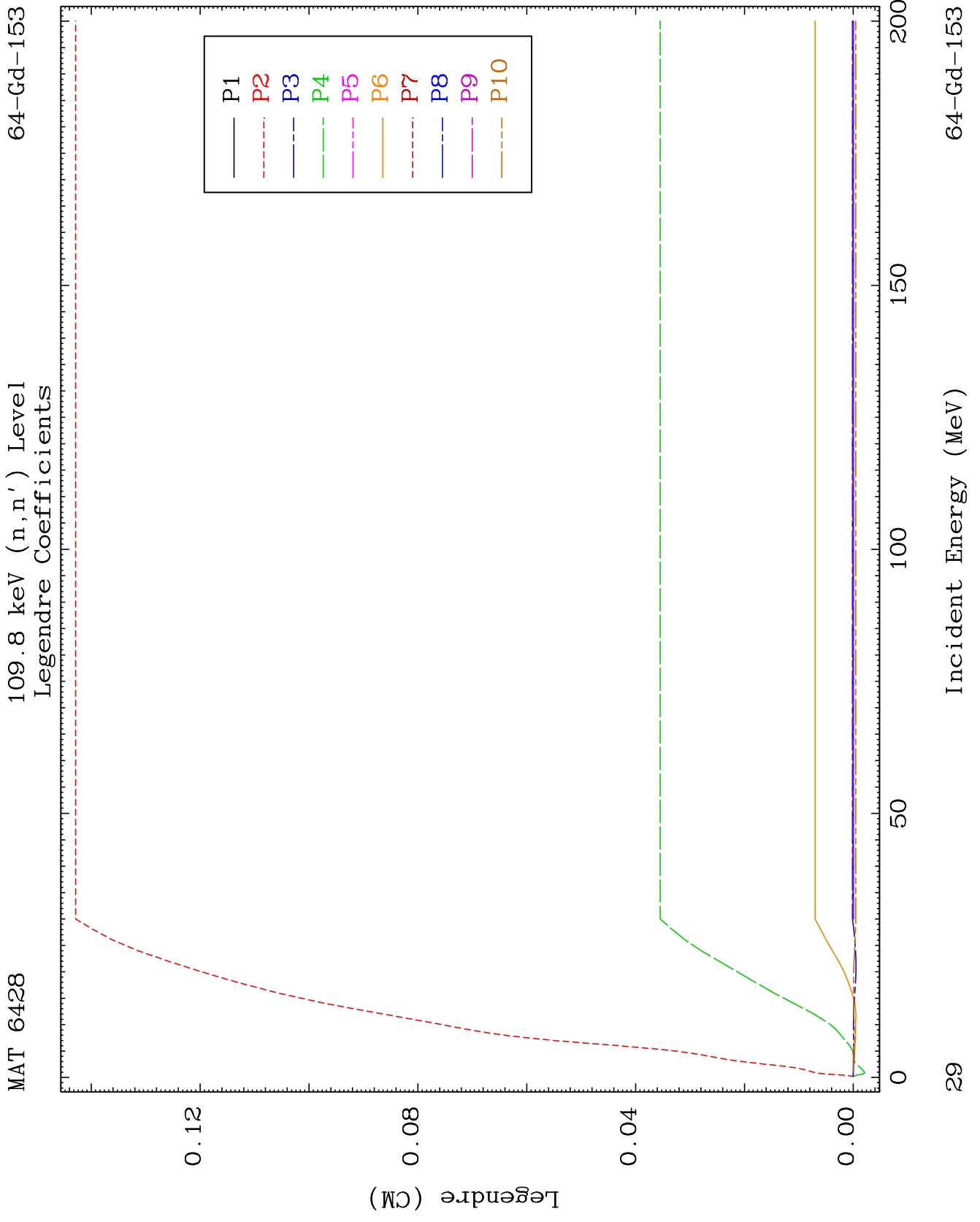


27

Incident Energy (MeV)

64-Gd-153

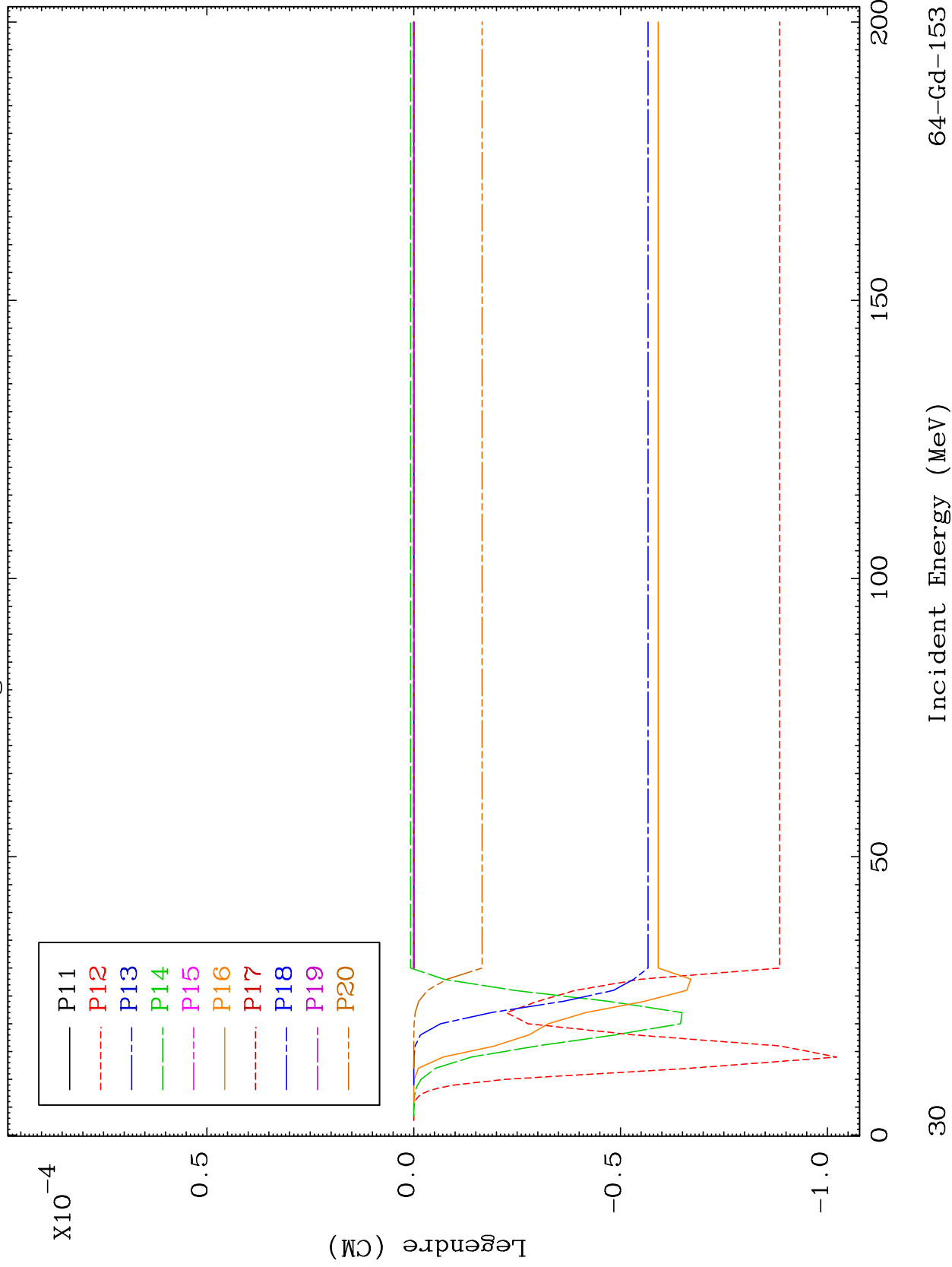


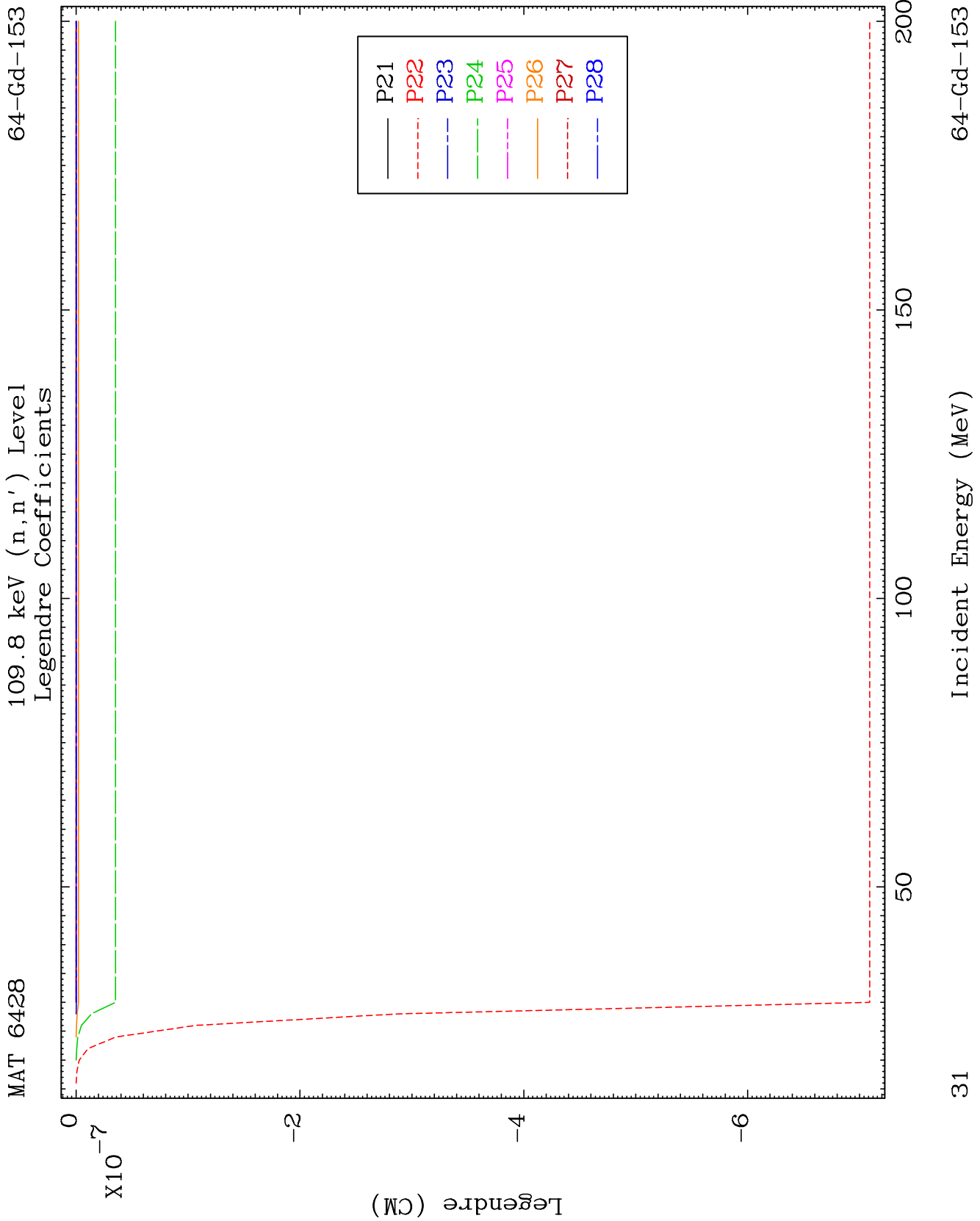


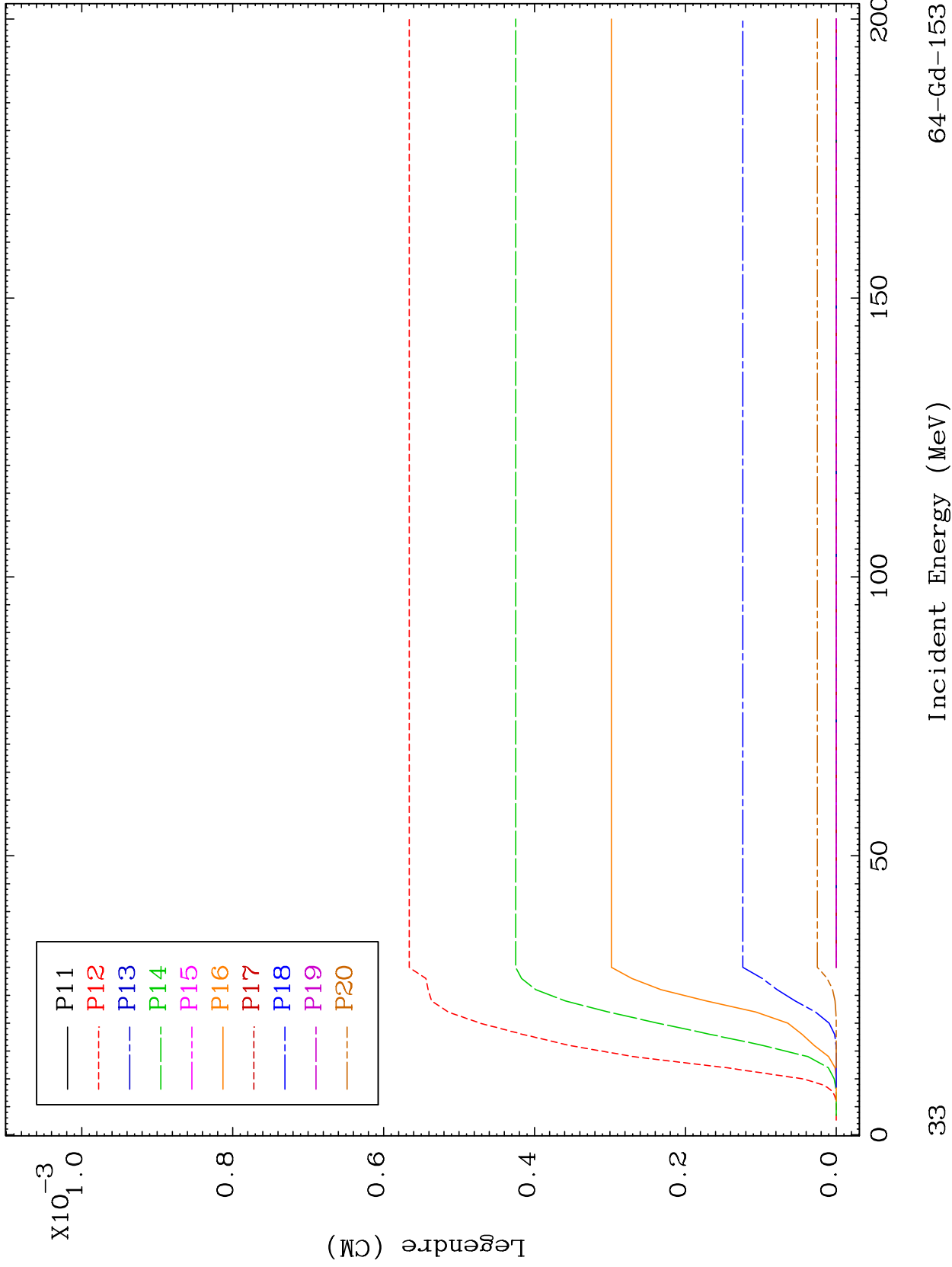
MAT 6428

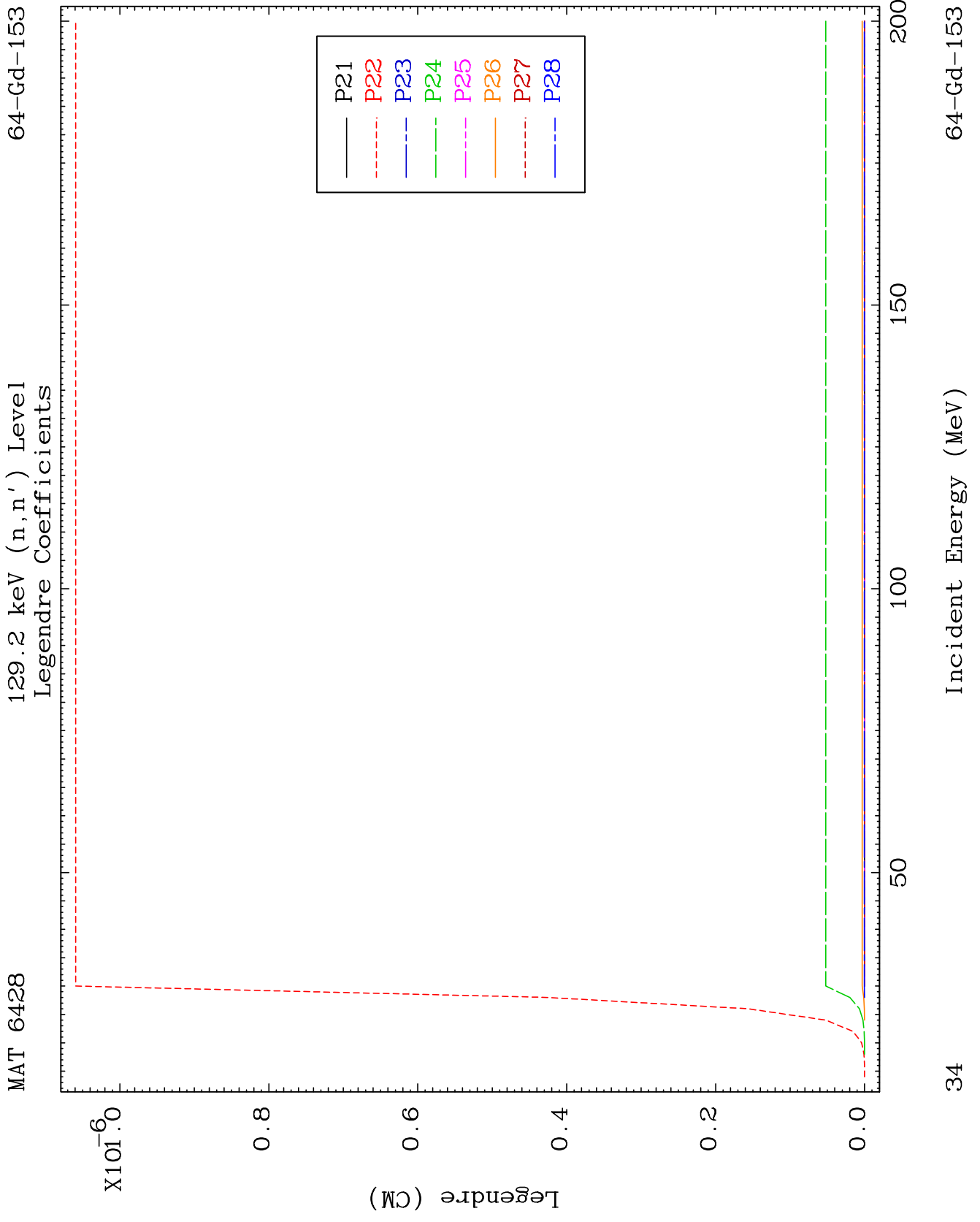
109.8 keV (n,n') Level
Legendre Coefficients

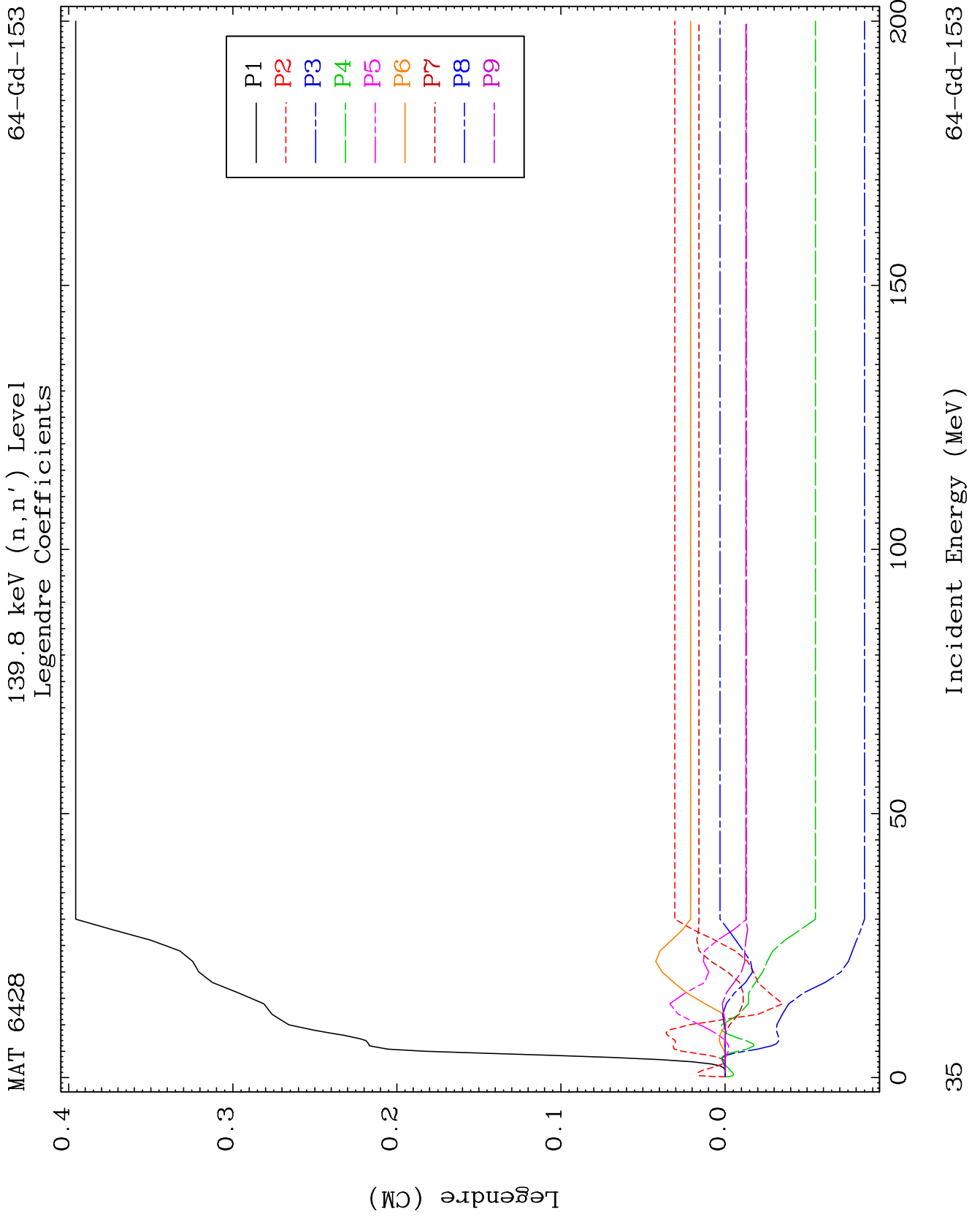
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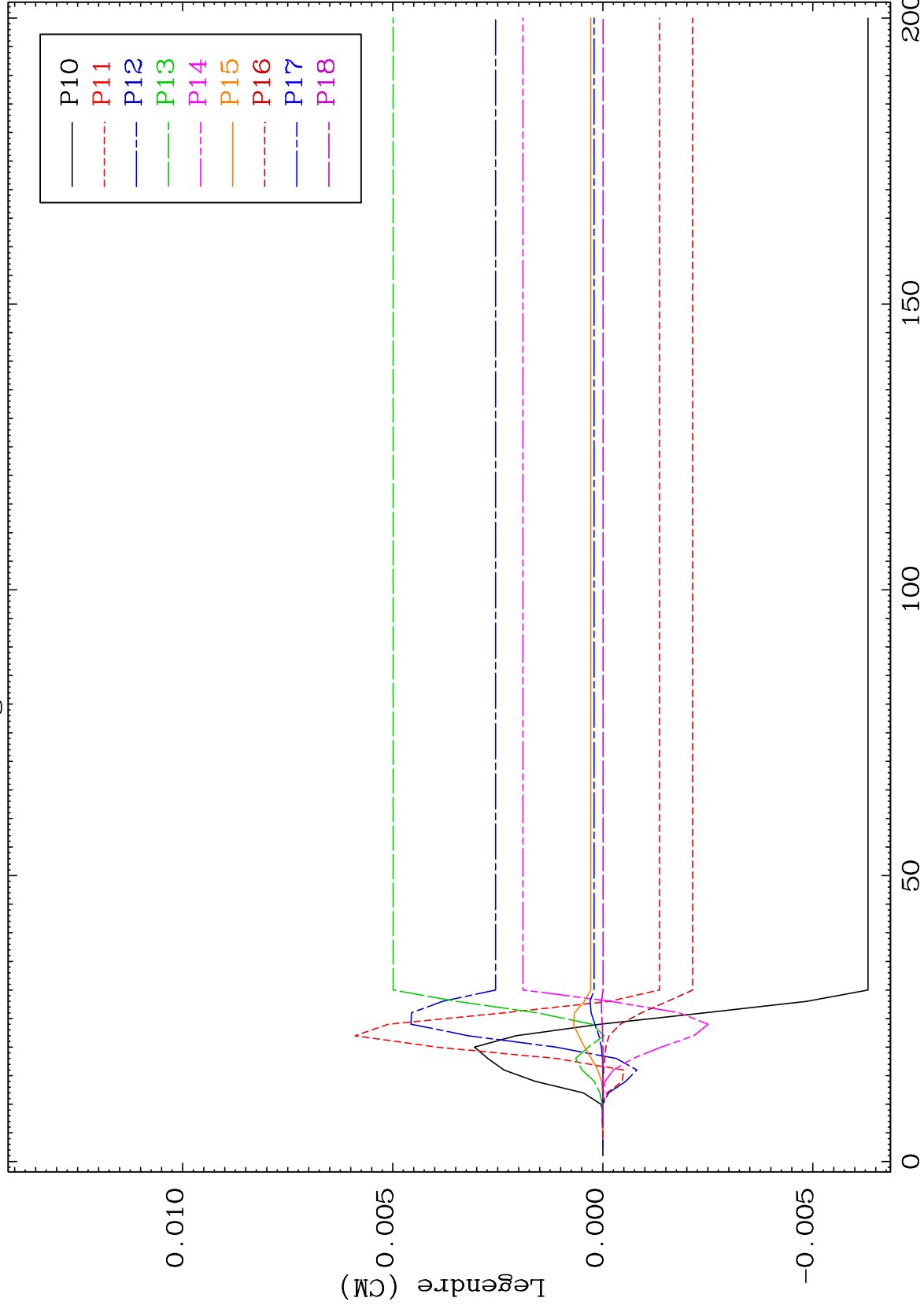




MAT 6428

139.8 keV (n,n') Level
Legendre Coefficients

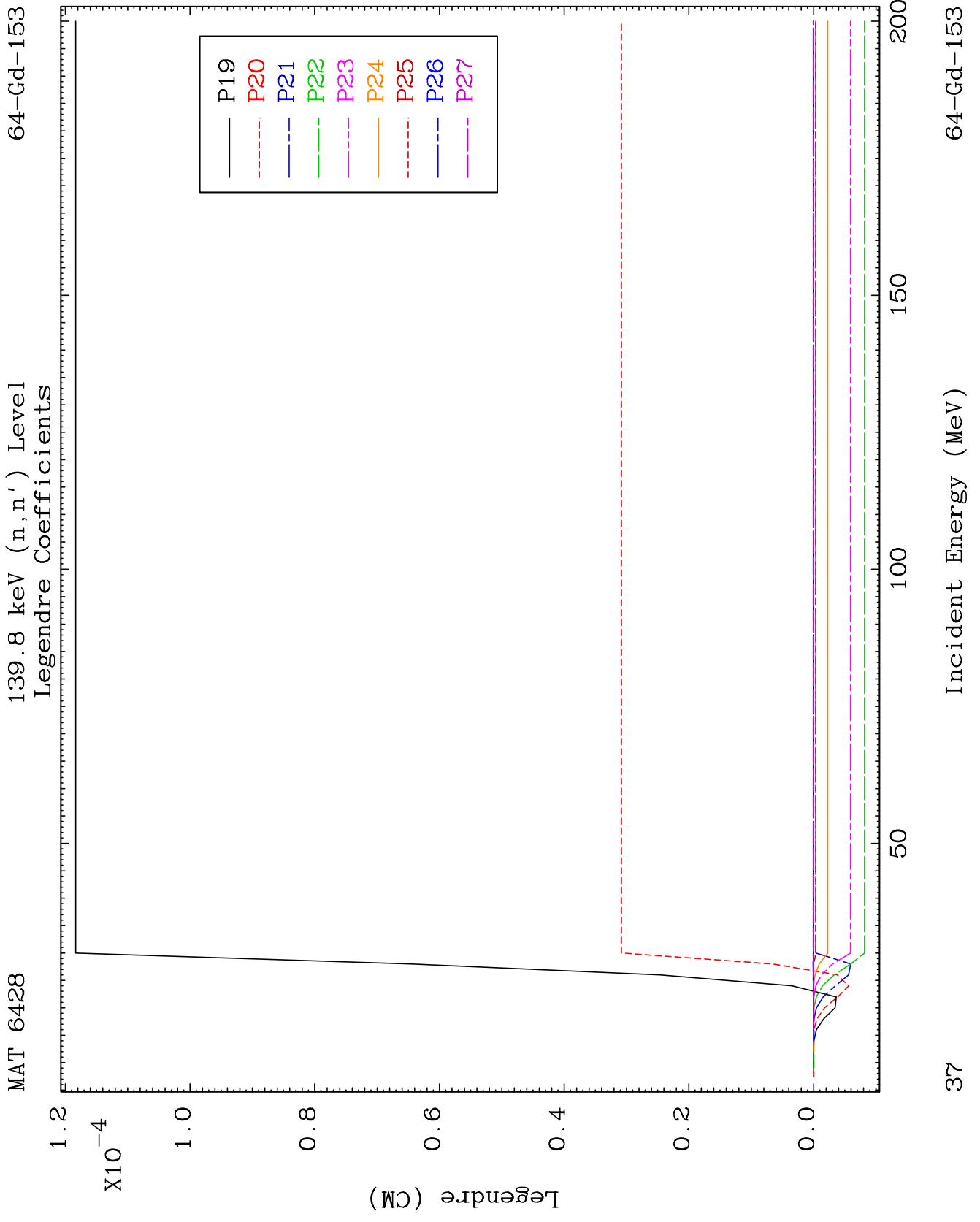
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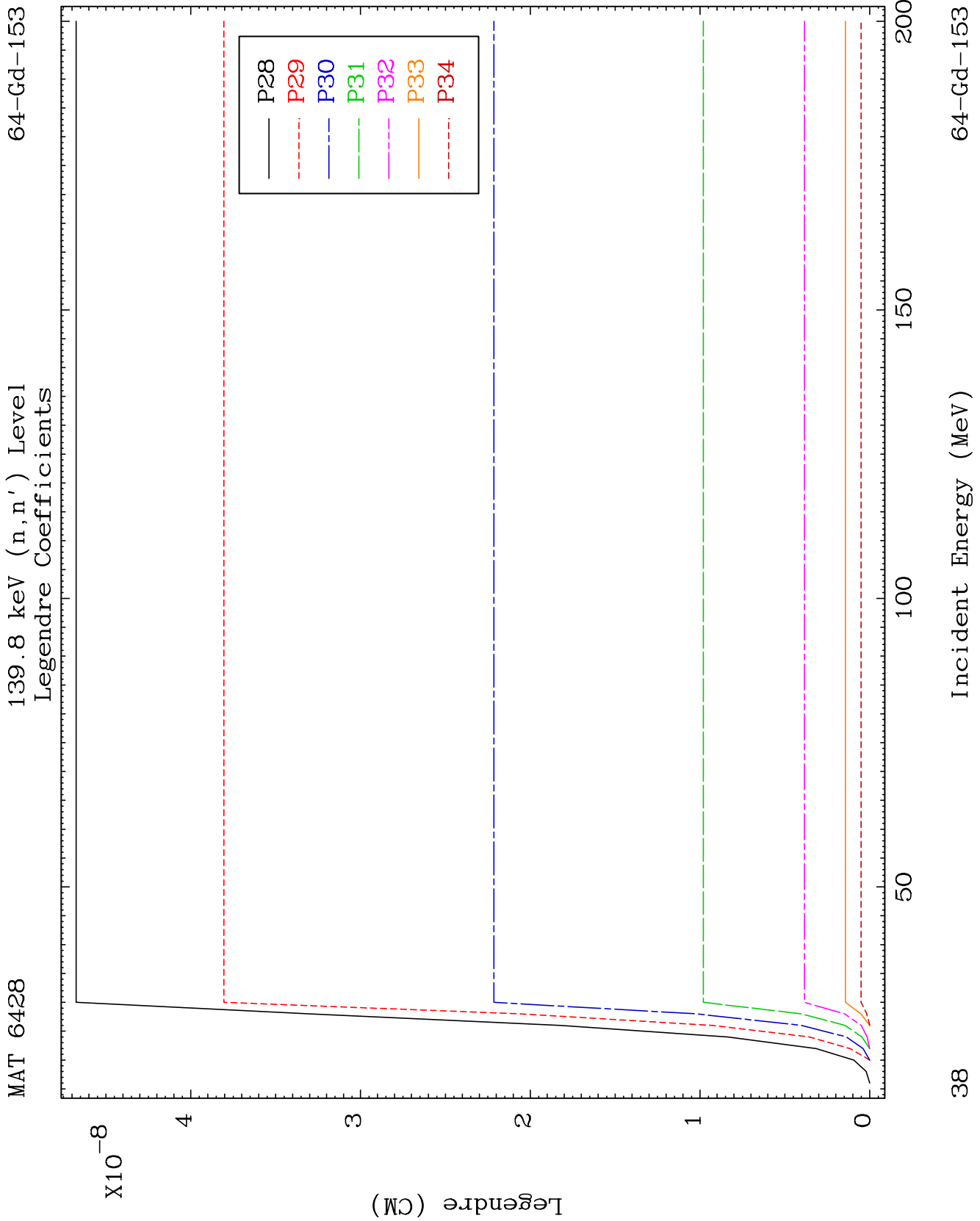


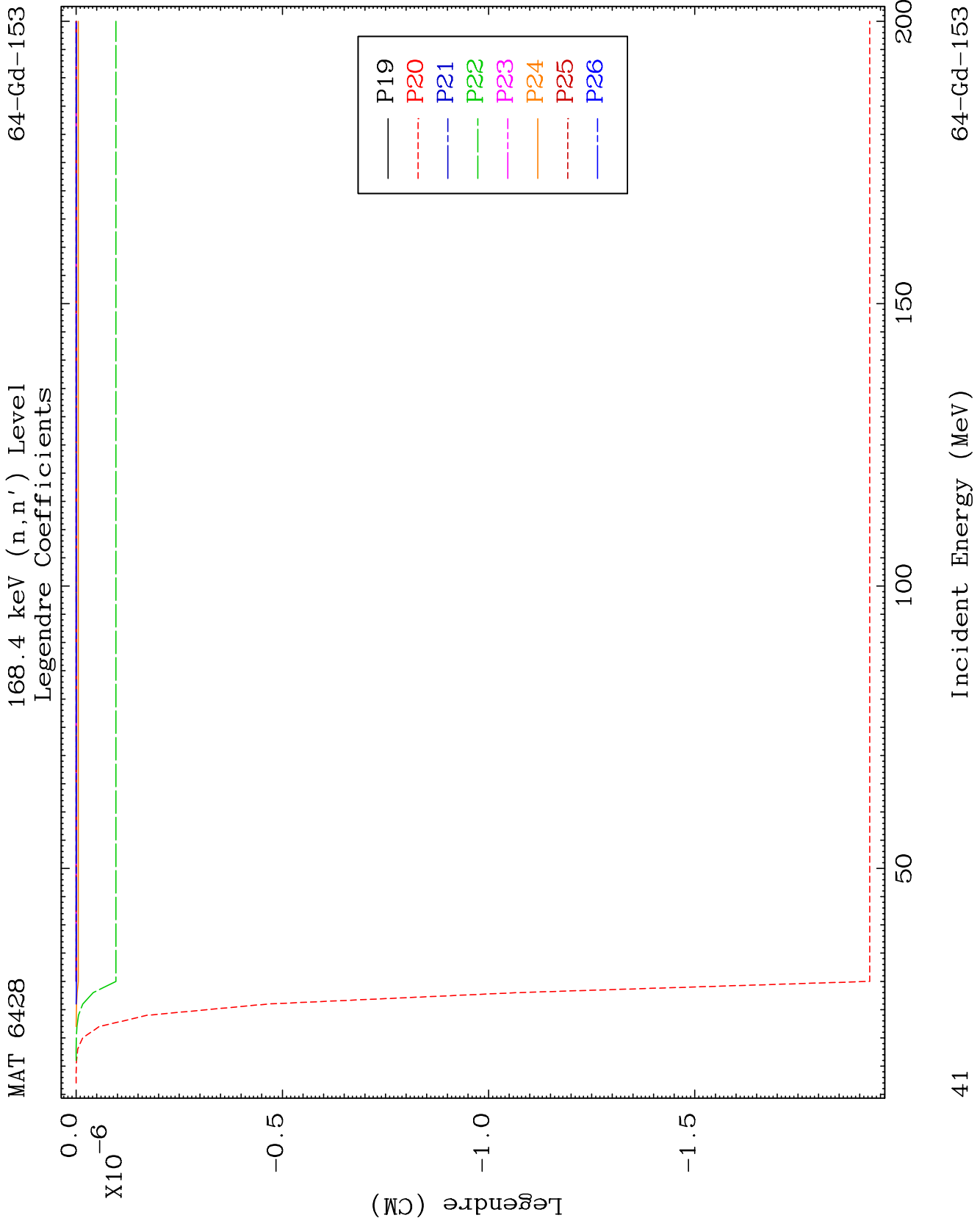
36

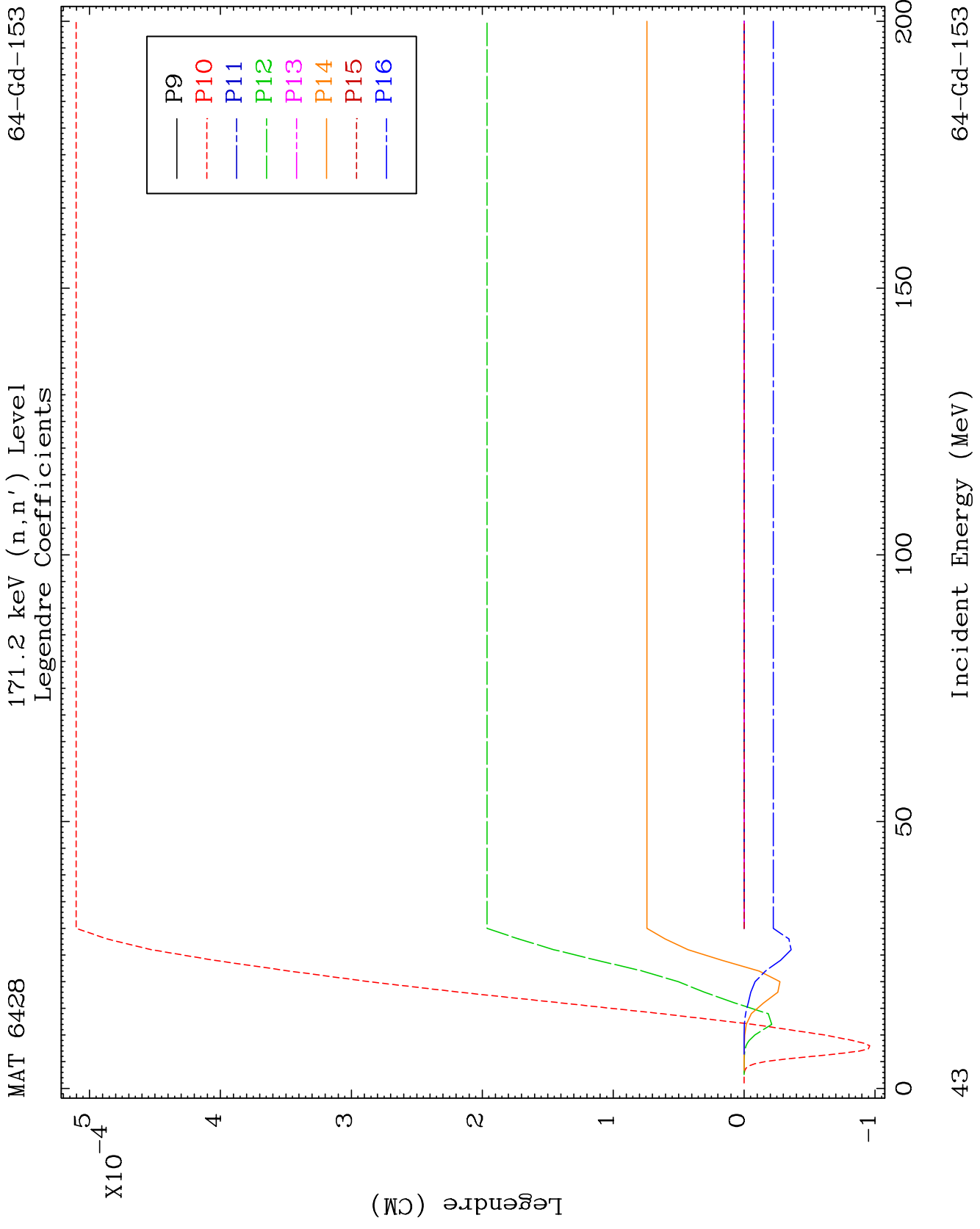
Incident Energy (MeV)

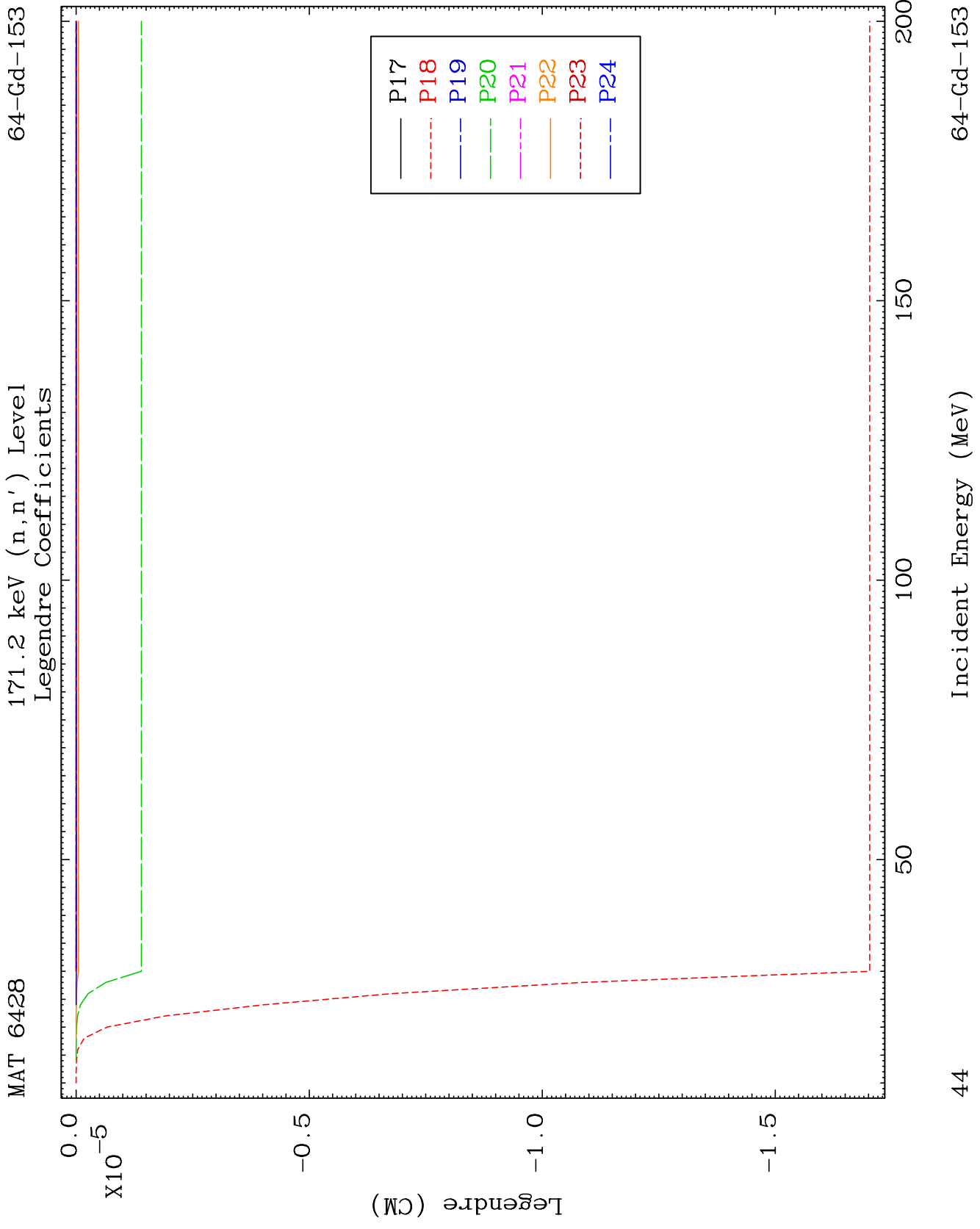
64-Gd-153







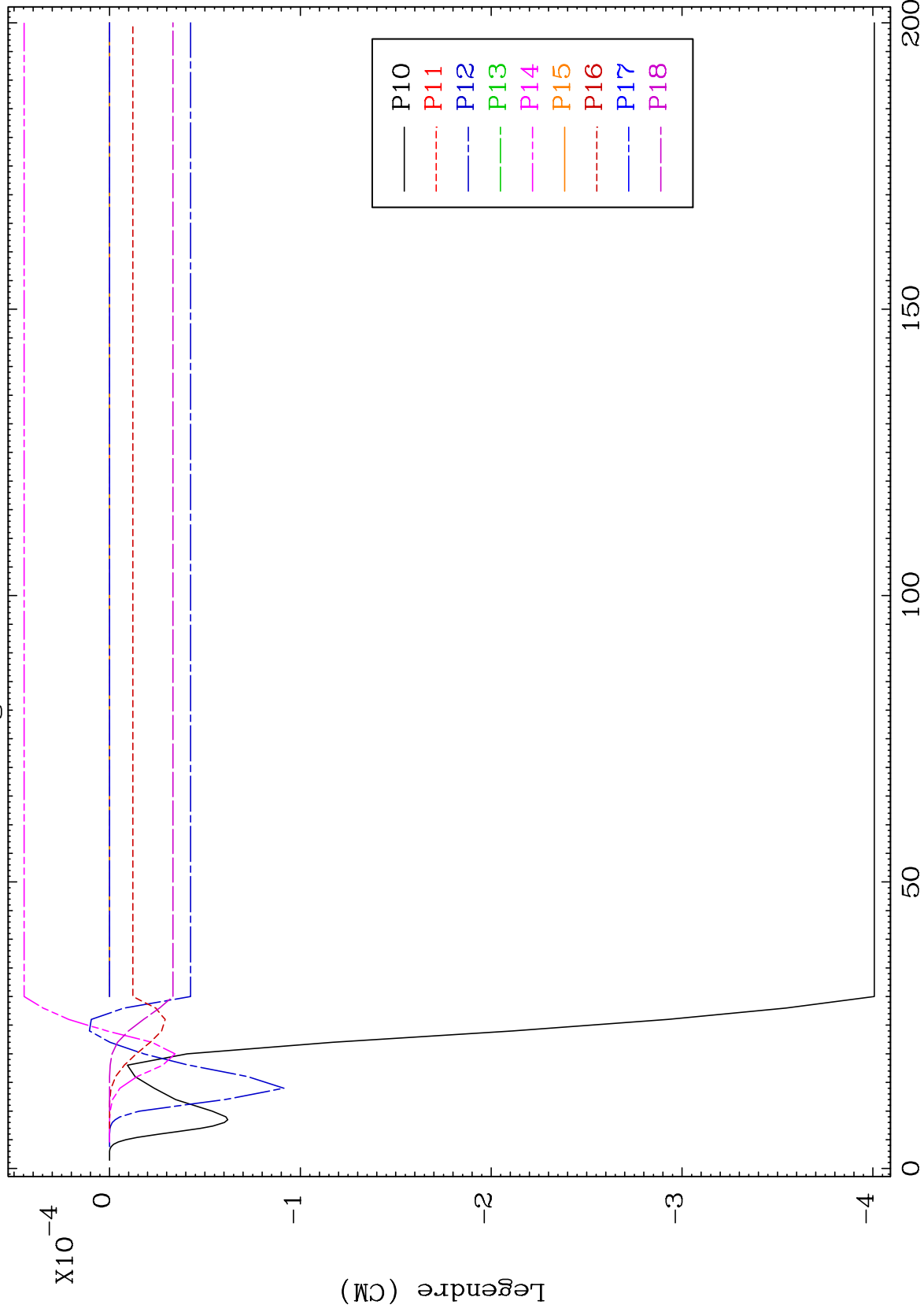




MAT 6428

183.5 keV (n,n') Level
Legendre Coefficients

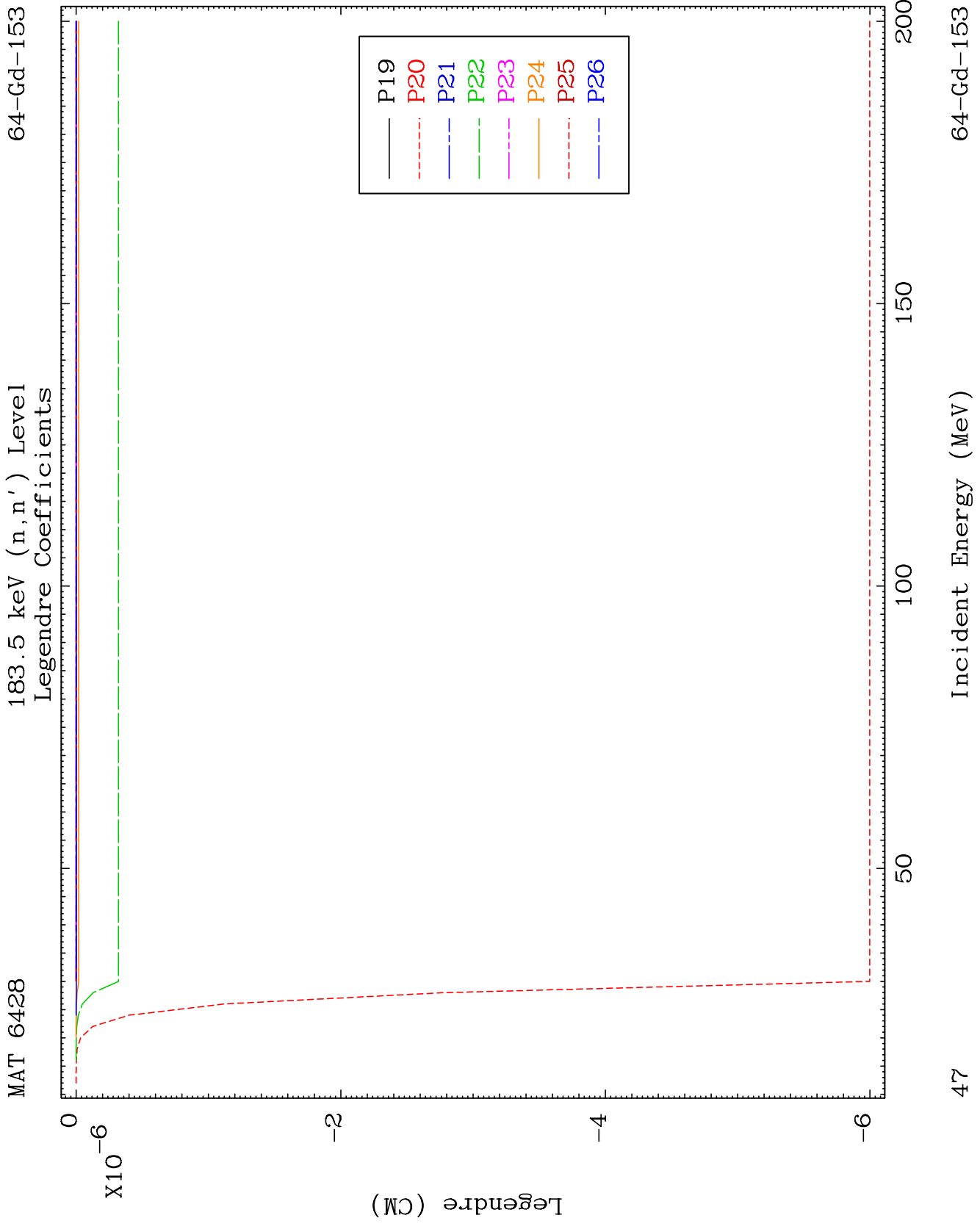
64-Gd-153



46

Incident Energy (MeV)

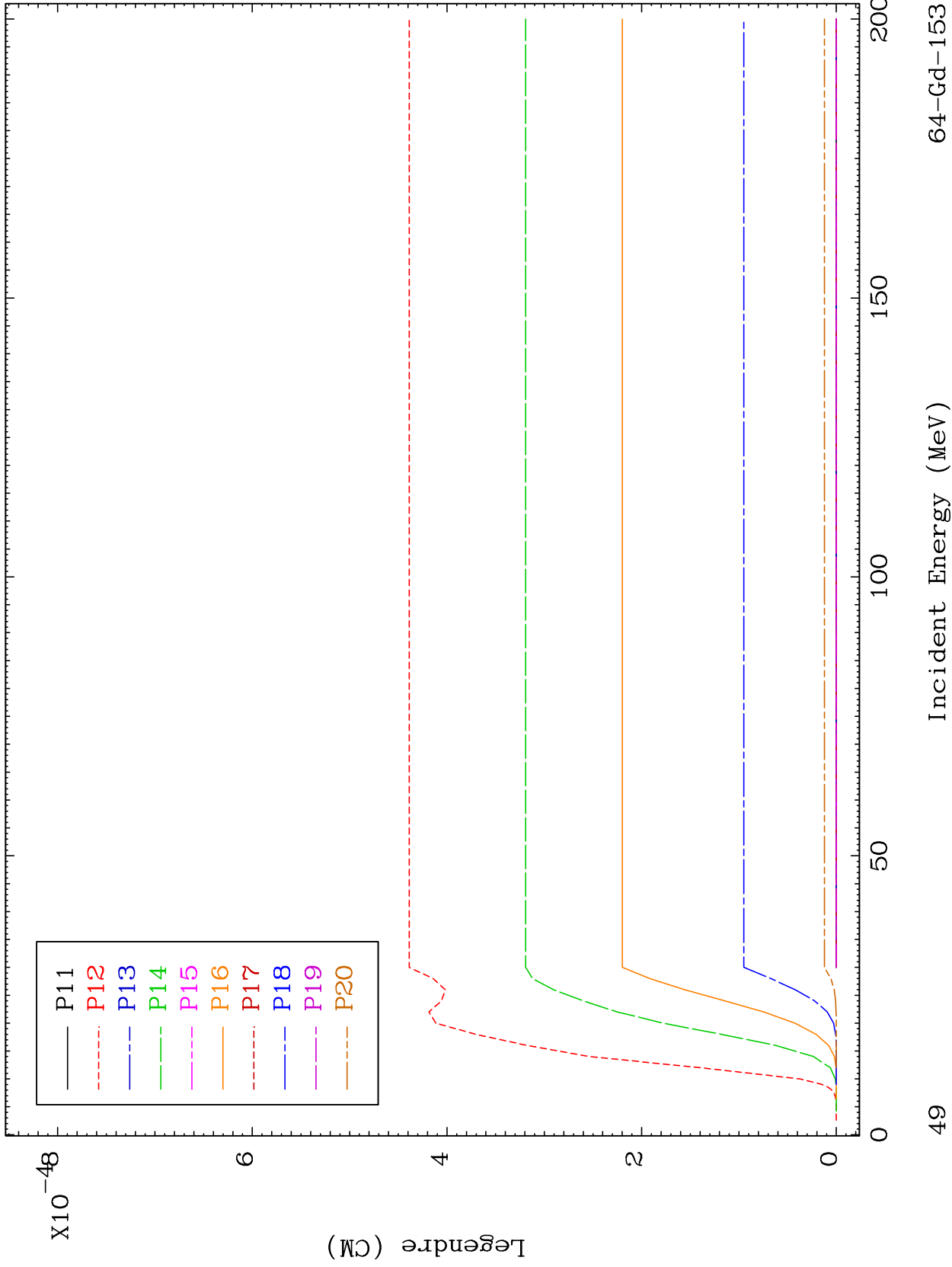
64-Gd-153



MAT 6428

212.0 keV (n,n') Level
Legendre Coefficients

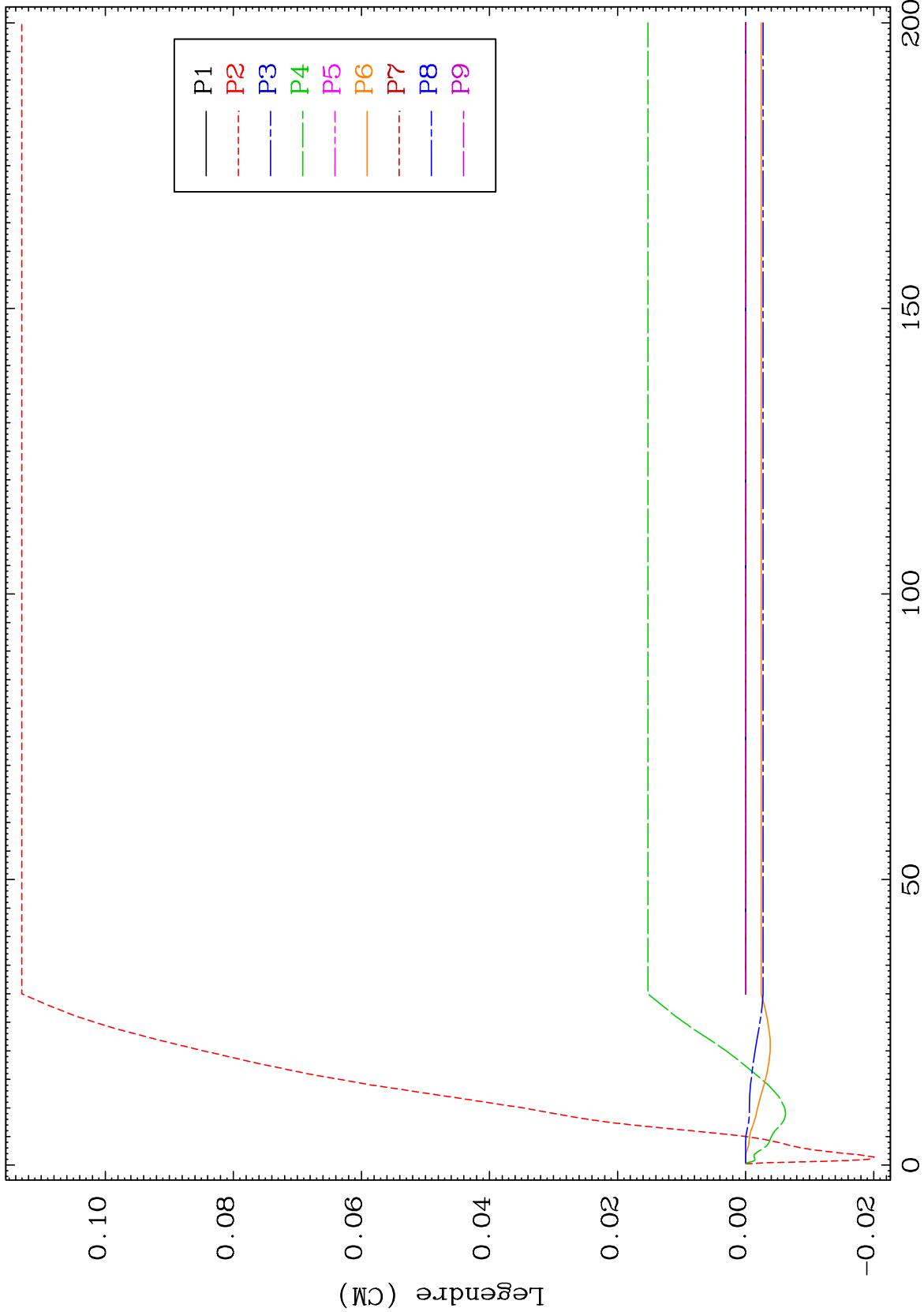
64-Gd-153



MAT 6428

216.0 keV (n,n') Level
Legendre Coefficients

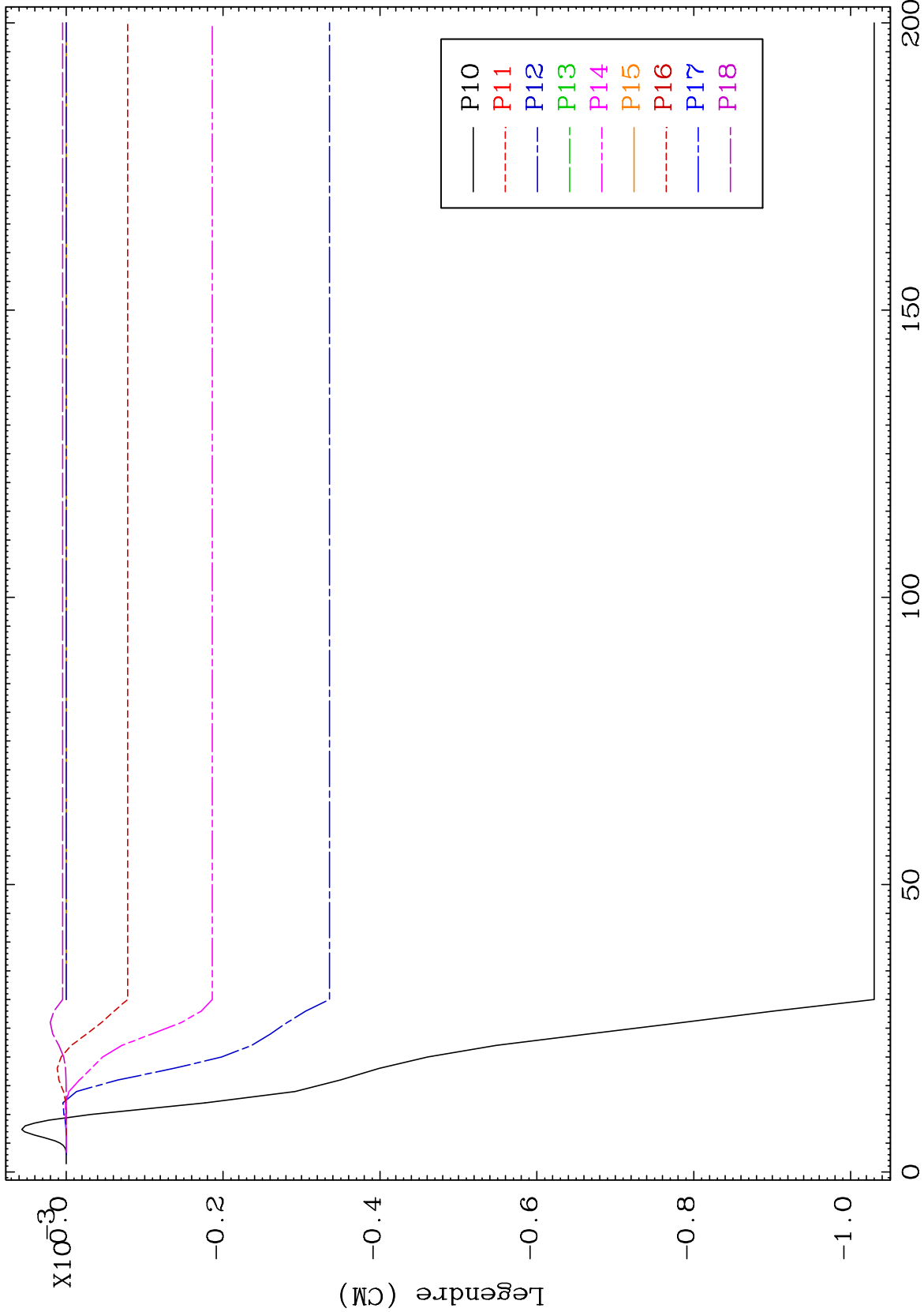
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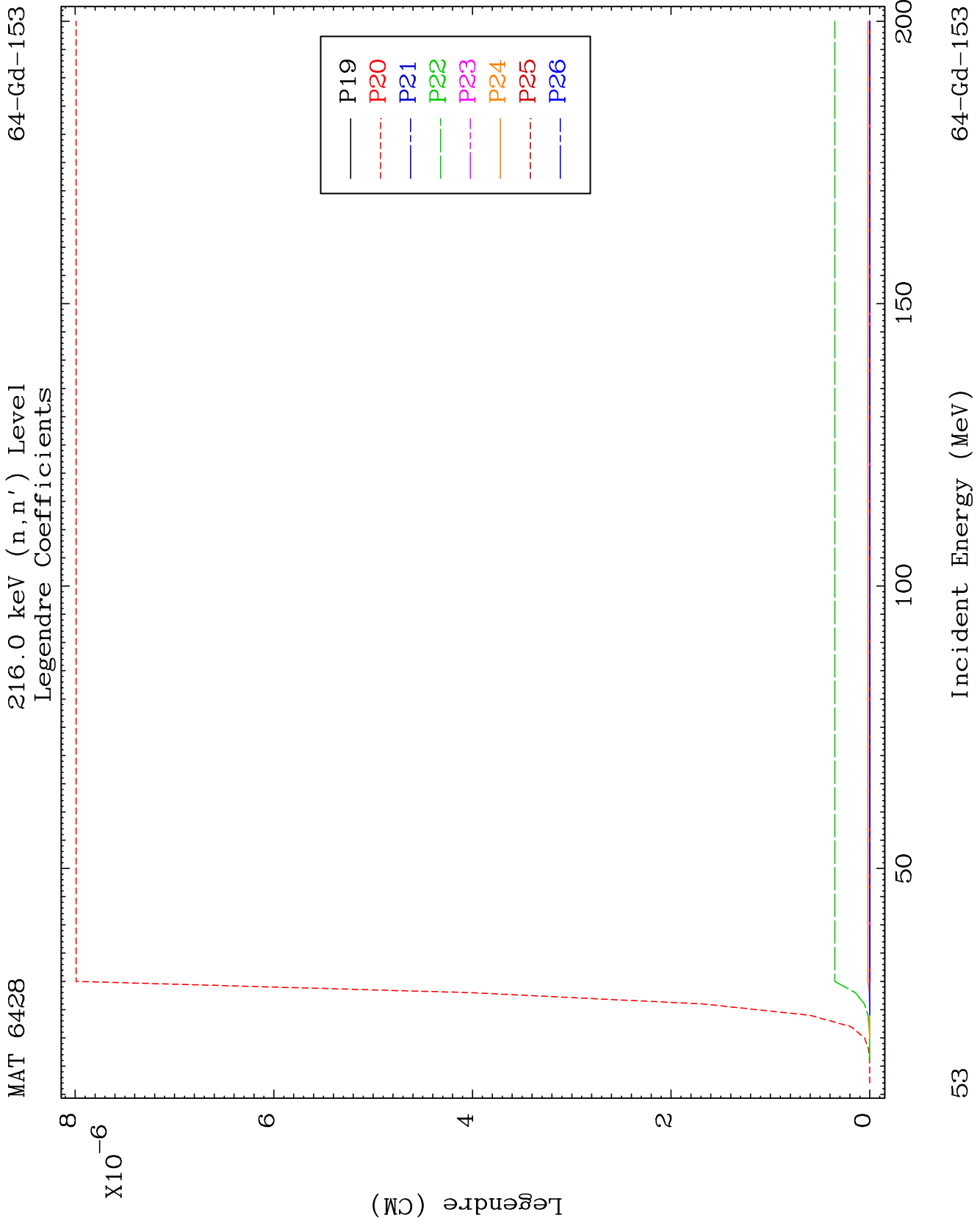


51

Incident Energy (MeV)

64-Gd-153

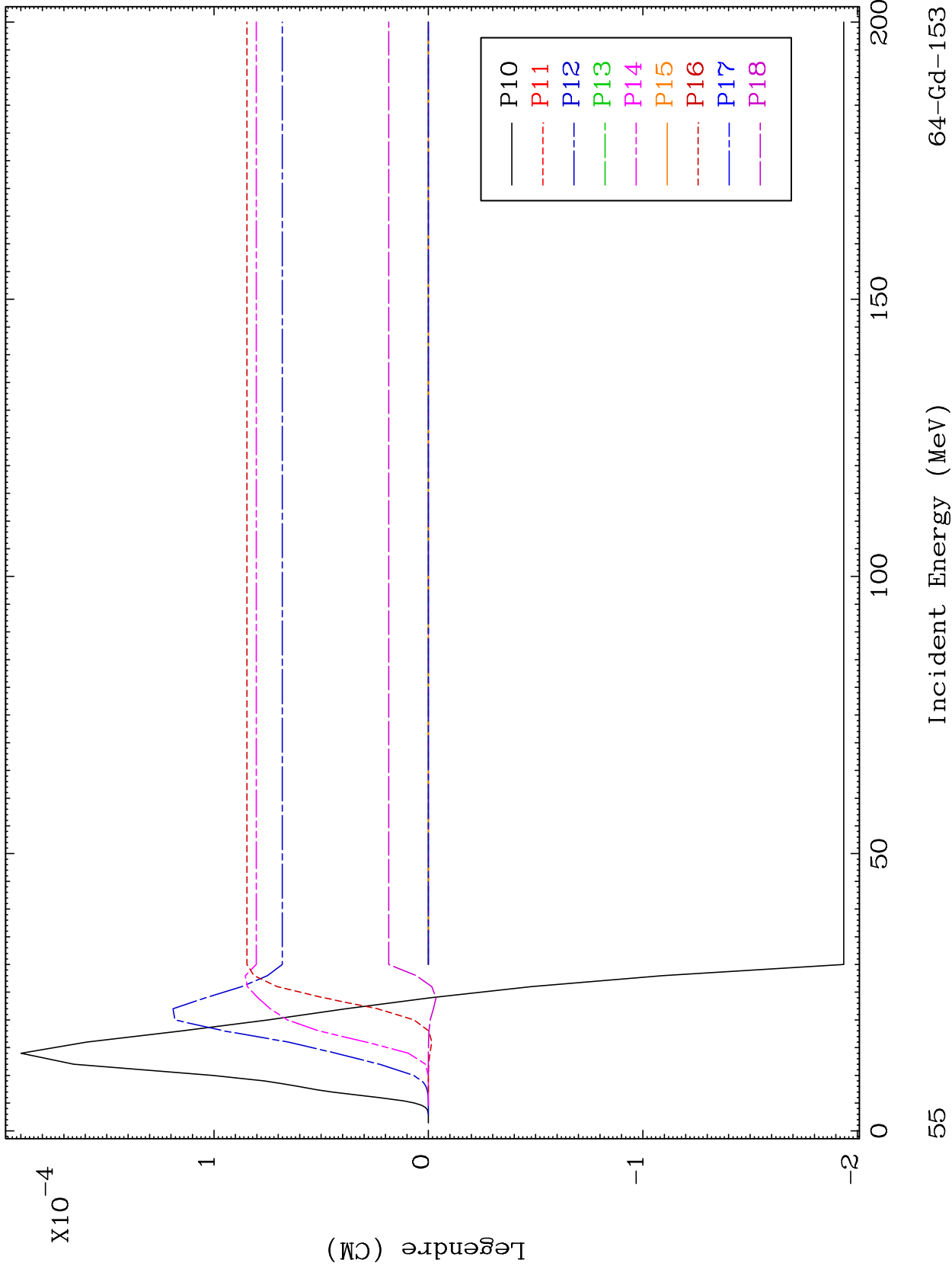




MAT 6428

219.4 keV (n,n') Level
Legendre Coefficients

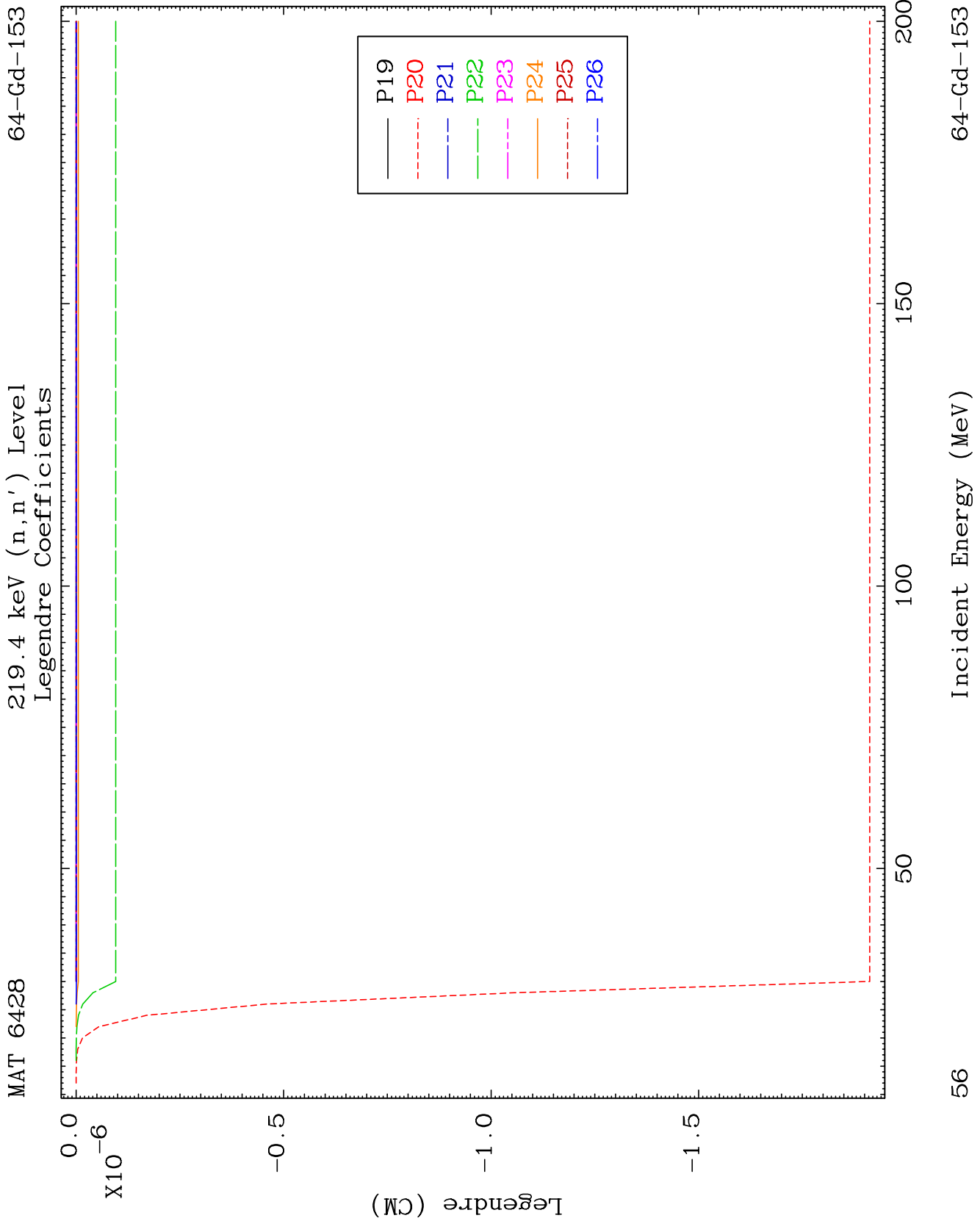
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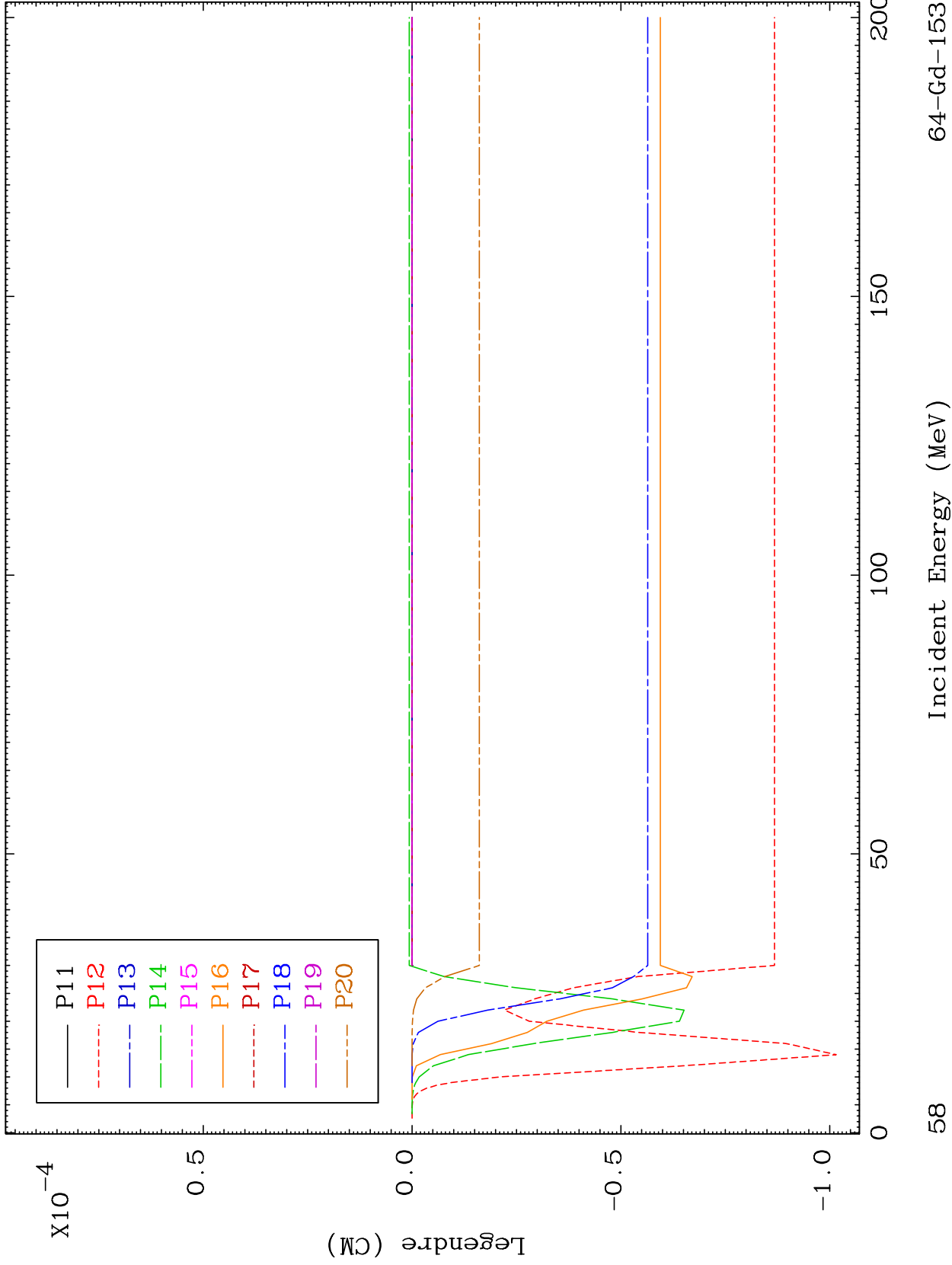


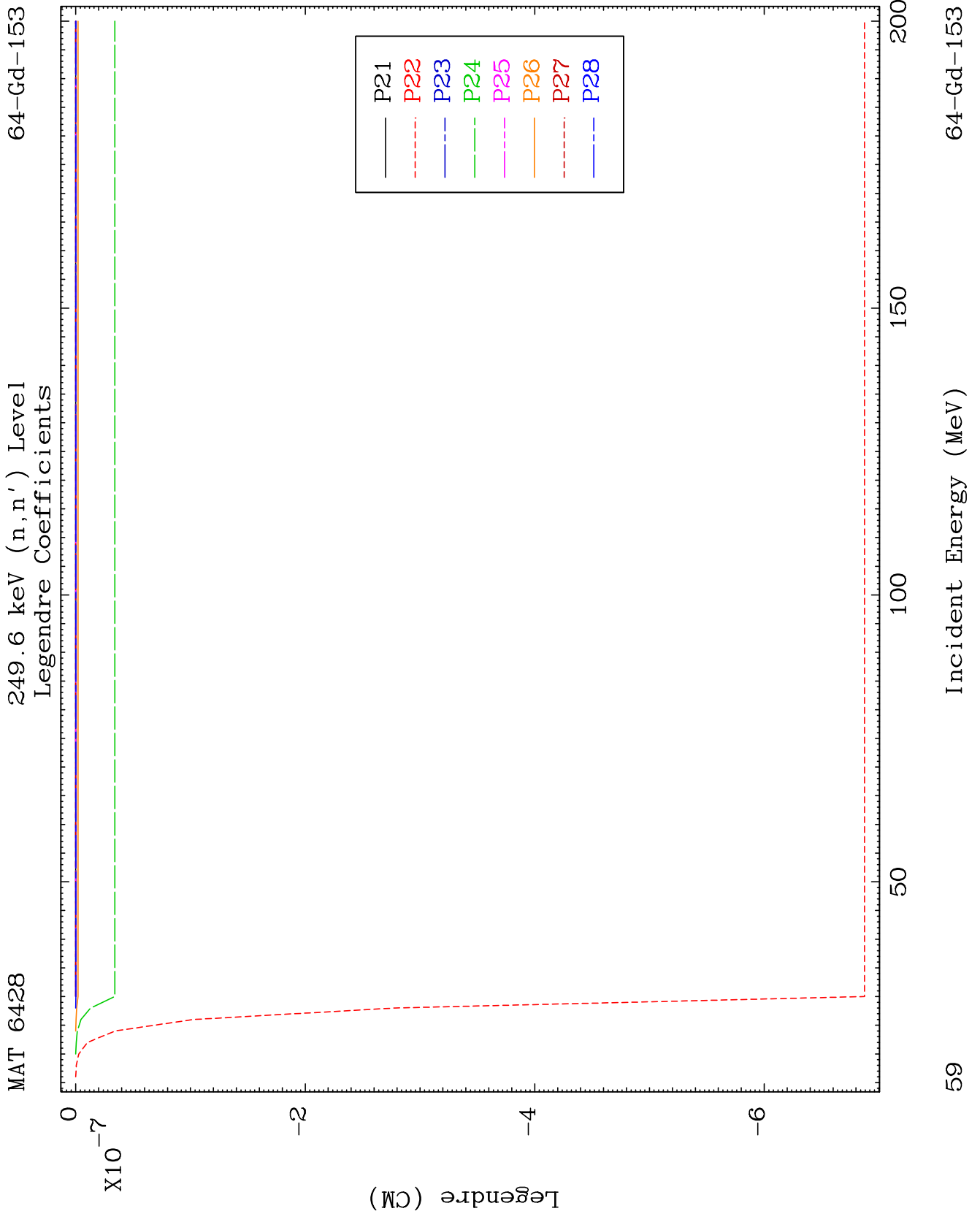
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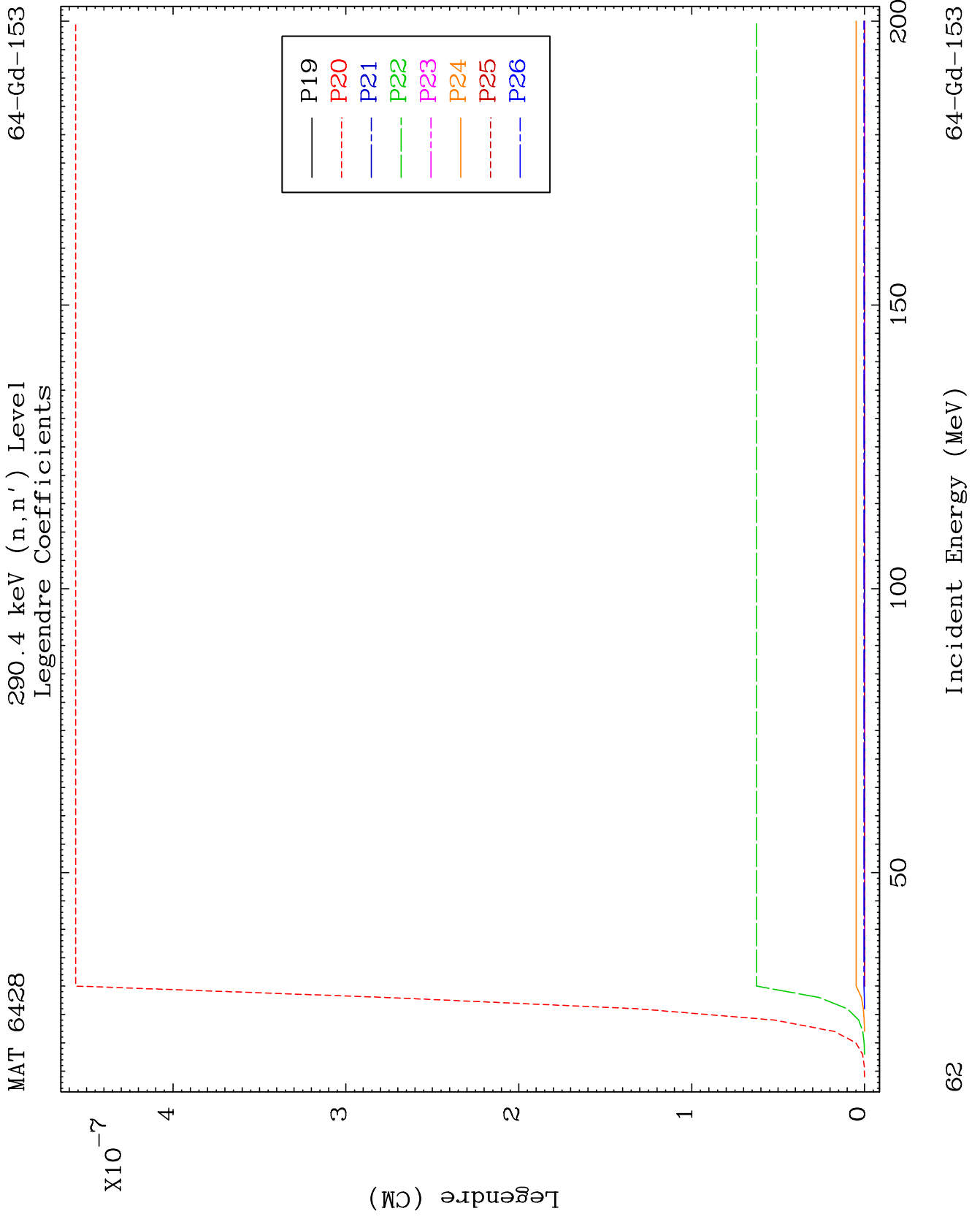
Incident Energy (MeV)

55





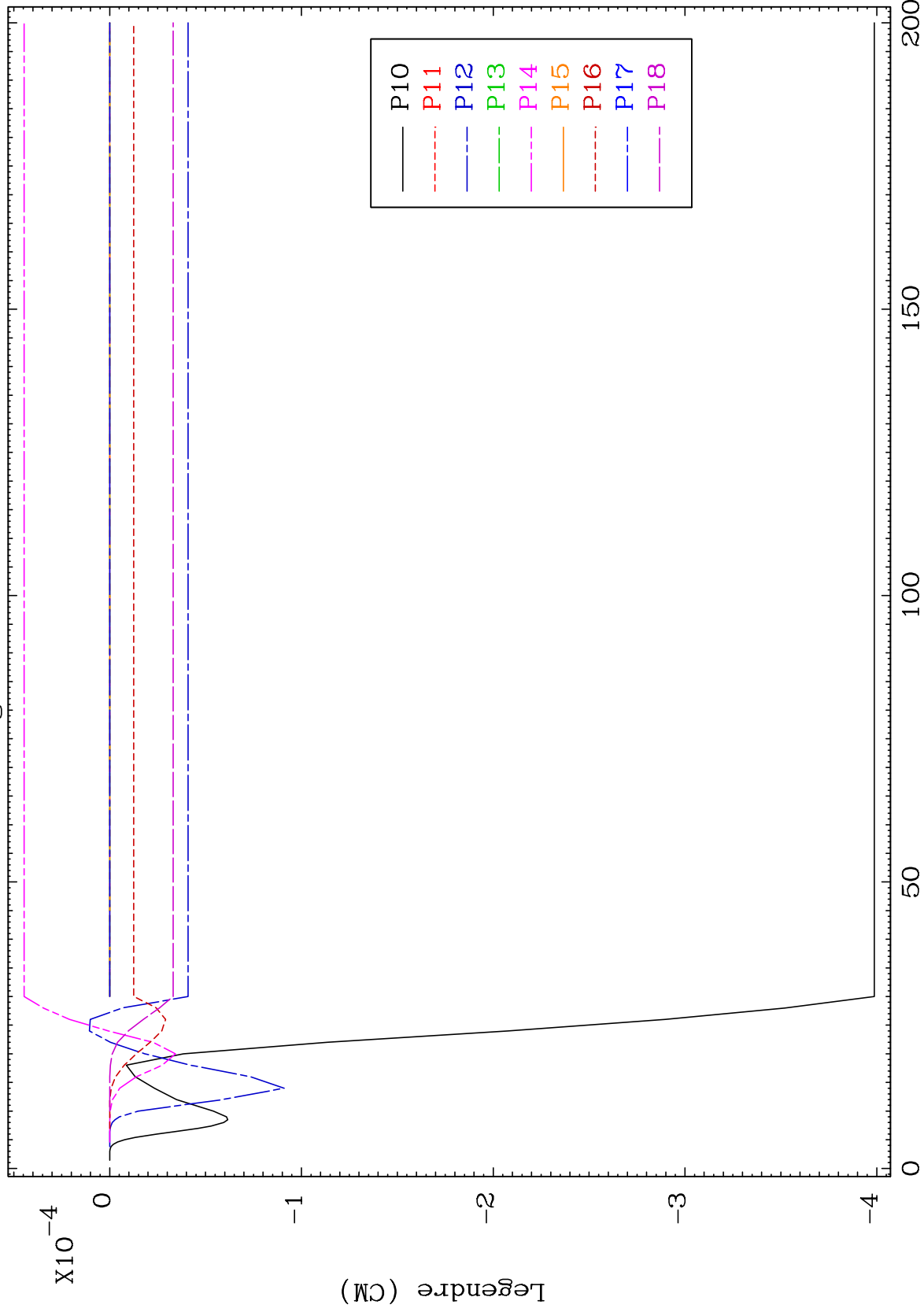




MAT 6428

303.5 keV (n,n') Level
Legendre Coefficients

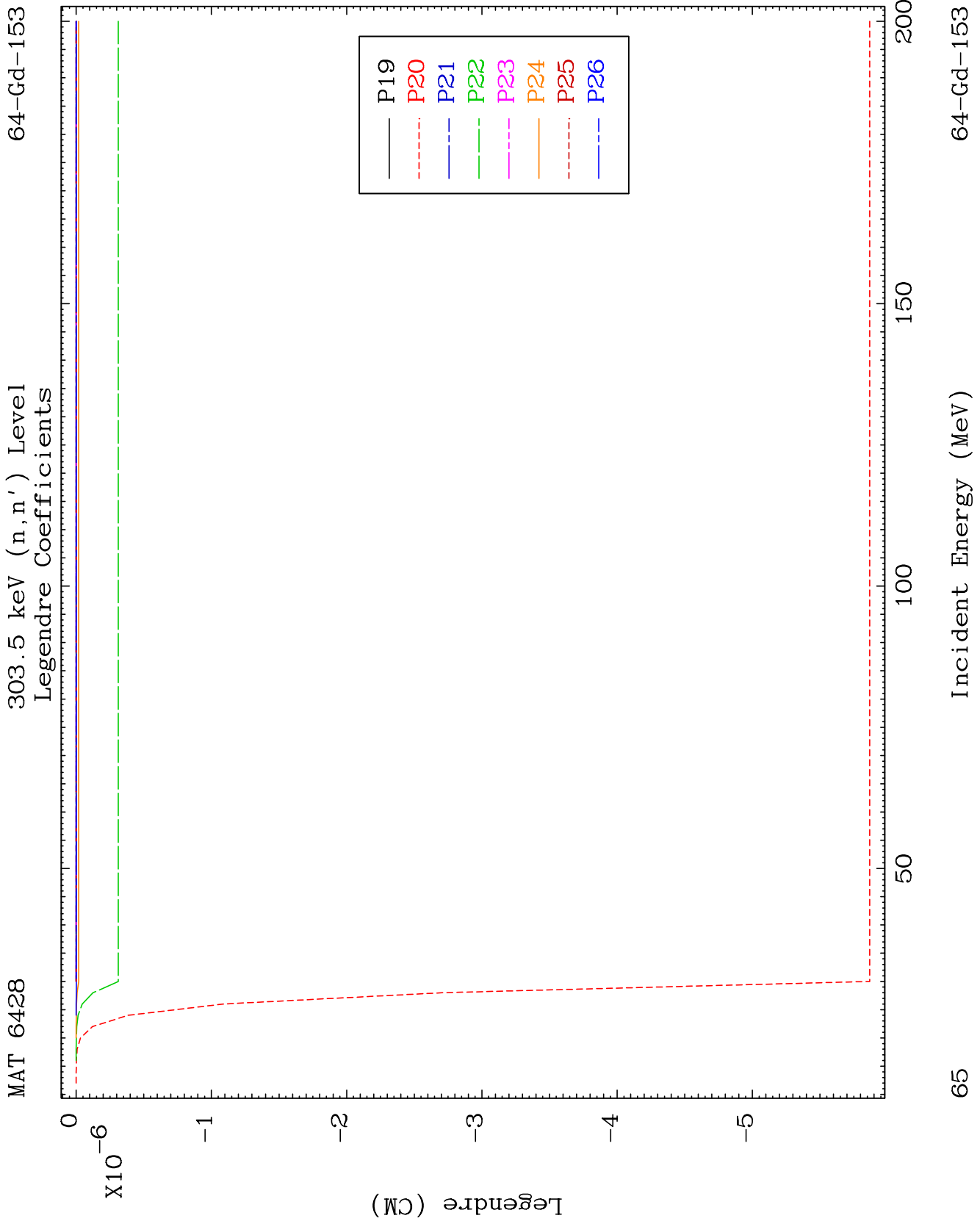
64-Gd-153



64

Incident Energy (MeV)

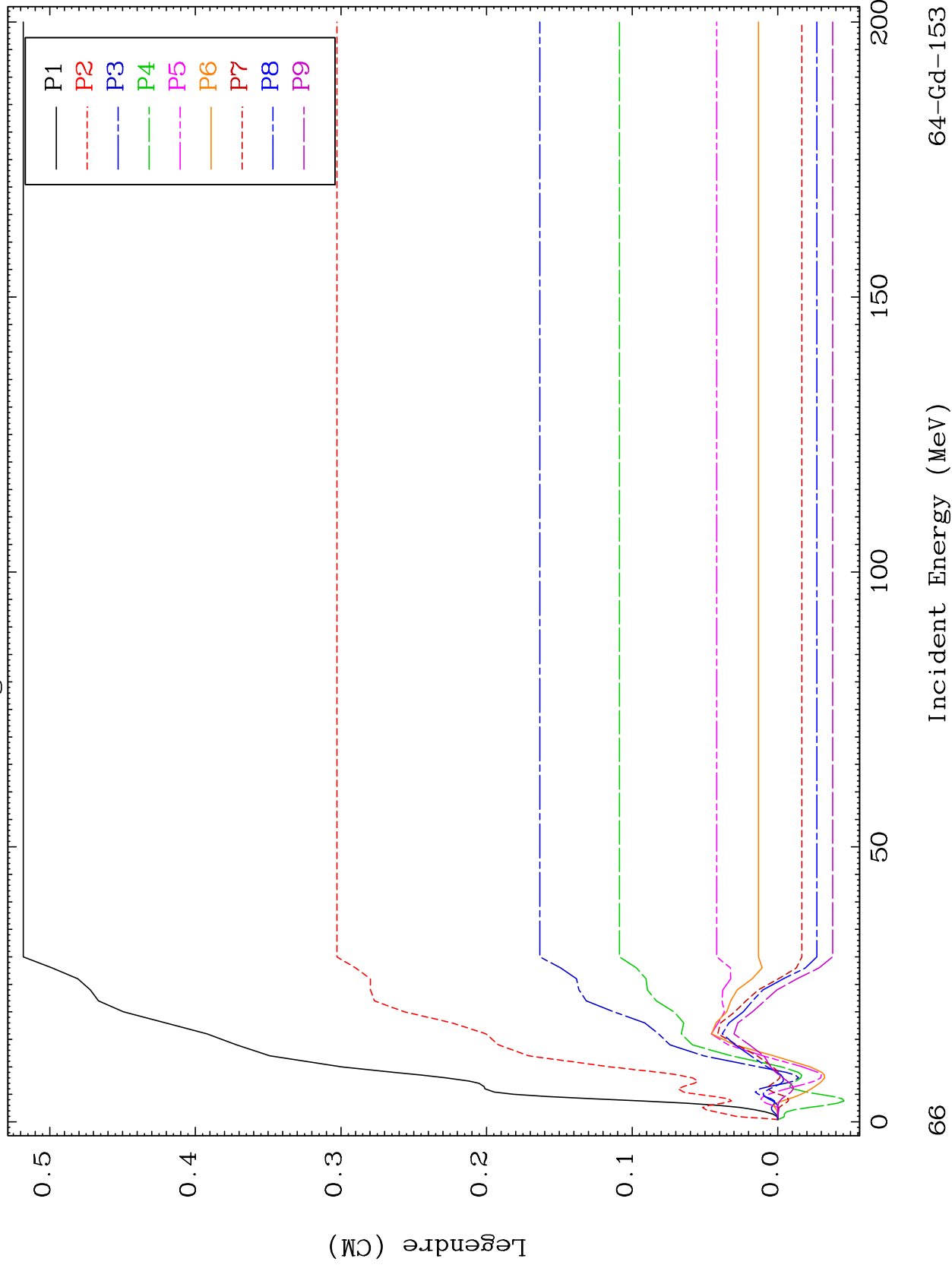
64-Gd-153



MAT 6428

315.2 keV (n, n') Level
Legendre Coefficients

64-Gd-153



64-Gd-153

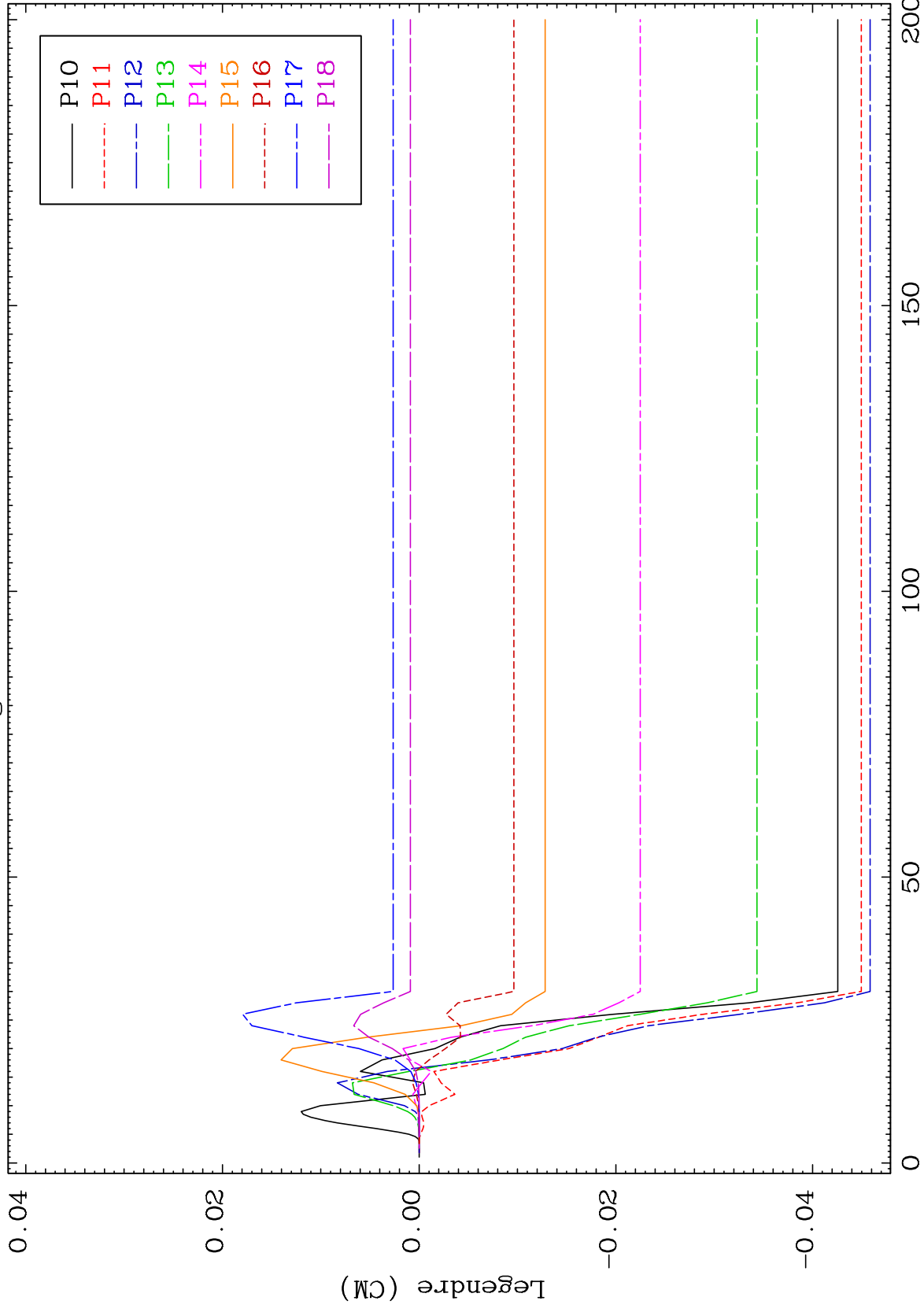
Incident Energy (MeV)

66

MAT 6428

315.2 keV (n,n') Level
Legendre Coefficients

64-Gd-153



67

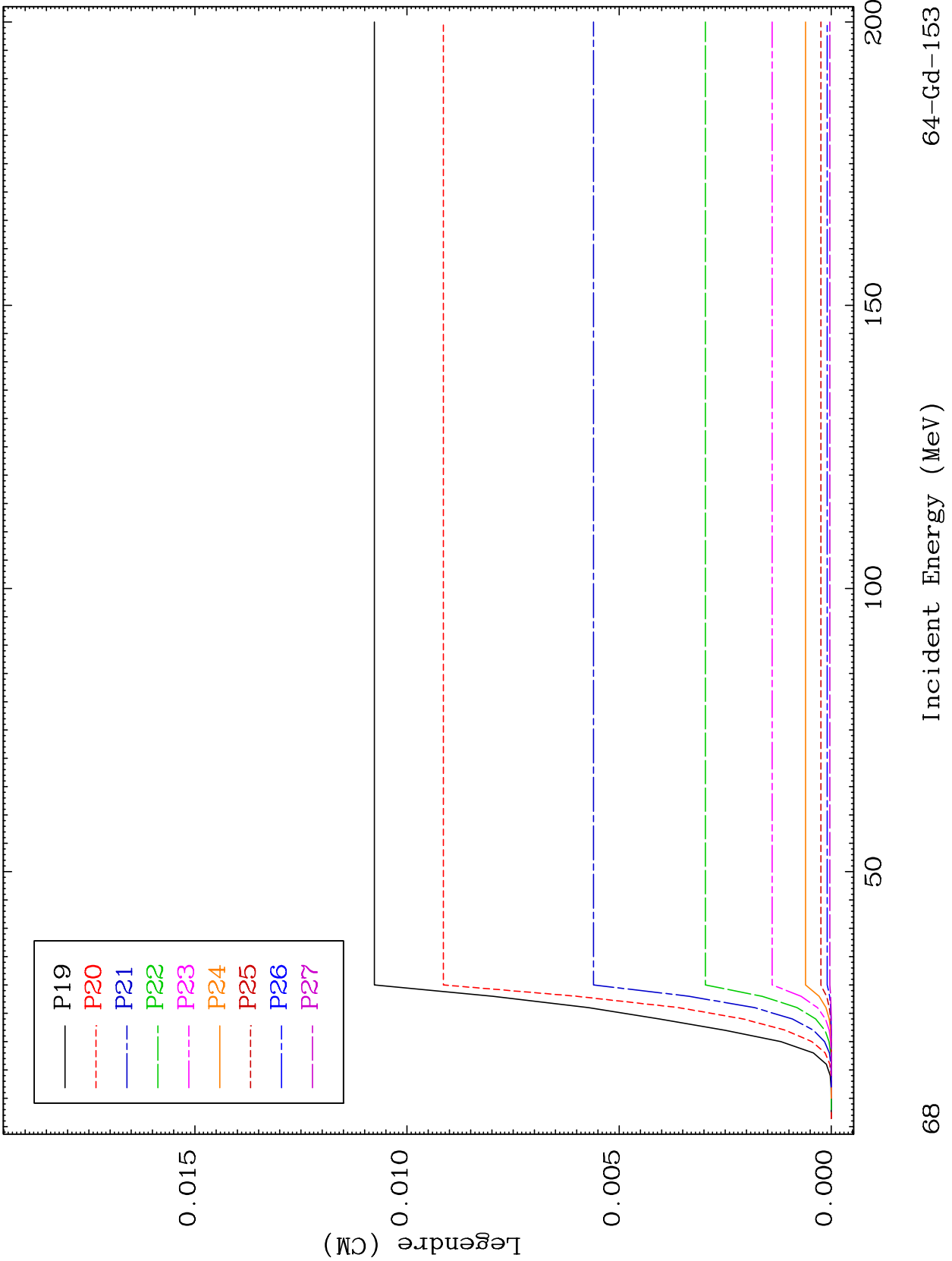
Incident Energy (MeV)

64-Gd-153

MAT 6428

315.2 keV (n,n') Level
Legendre Coefficients

64-Gd-153



68

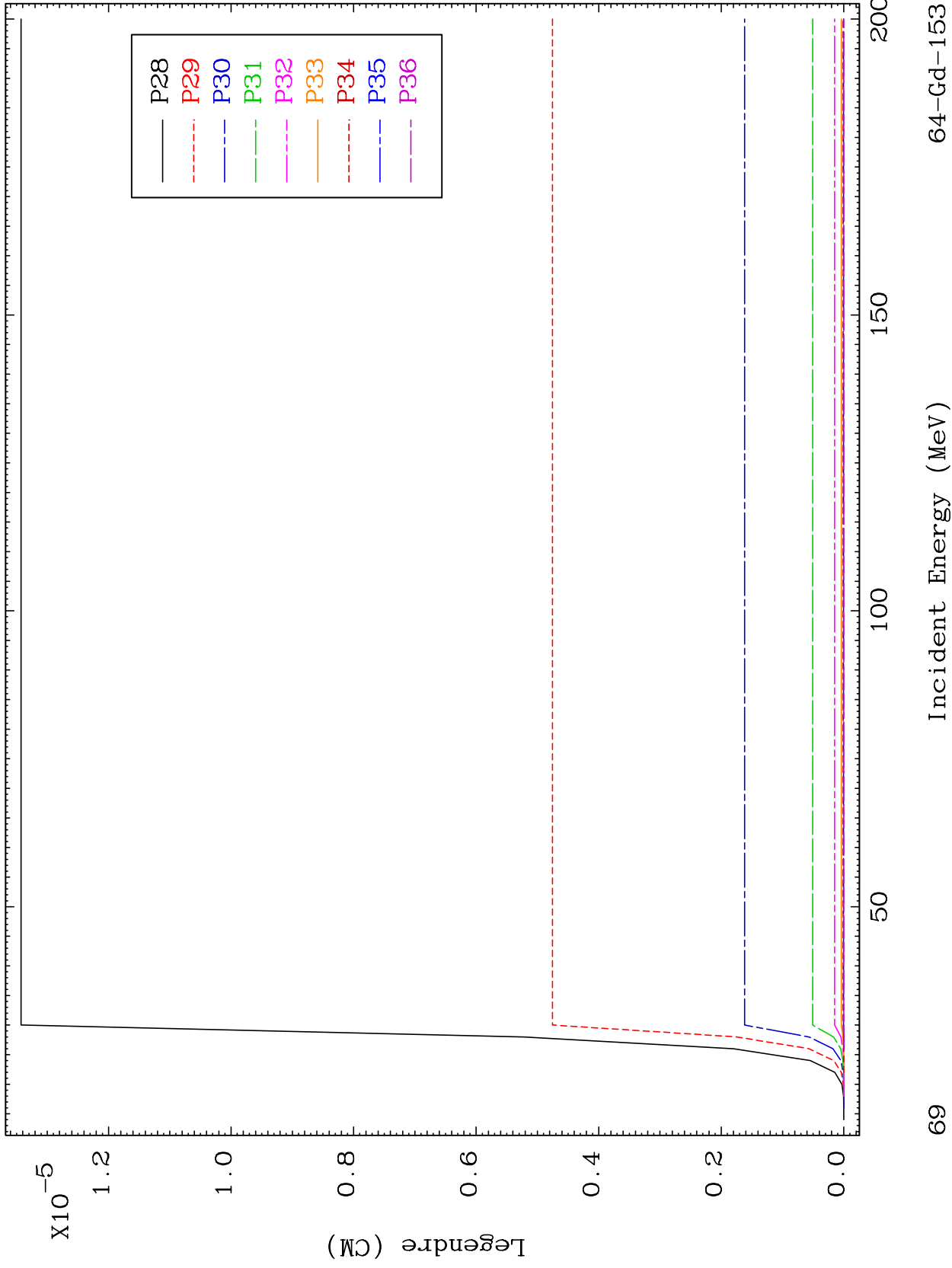
Incident Energy (MeV)

64-Gd-153

MAT 6428

315.2 keV (n,n') Level
Legendre Coefficients

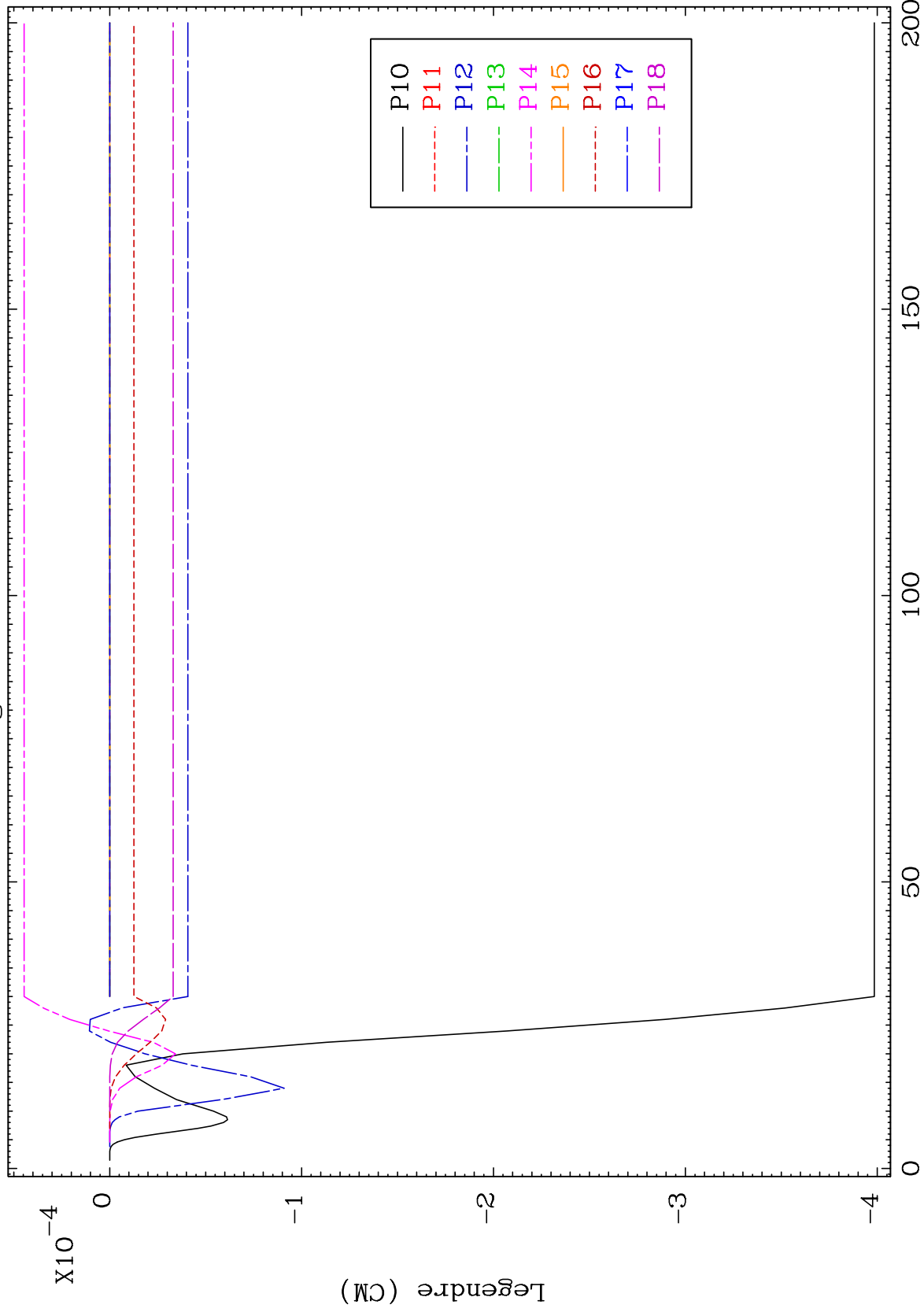
64-Gd-153



MAT 6428

319.2 keV (n,n') Level
Legendre Coefficients

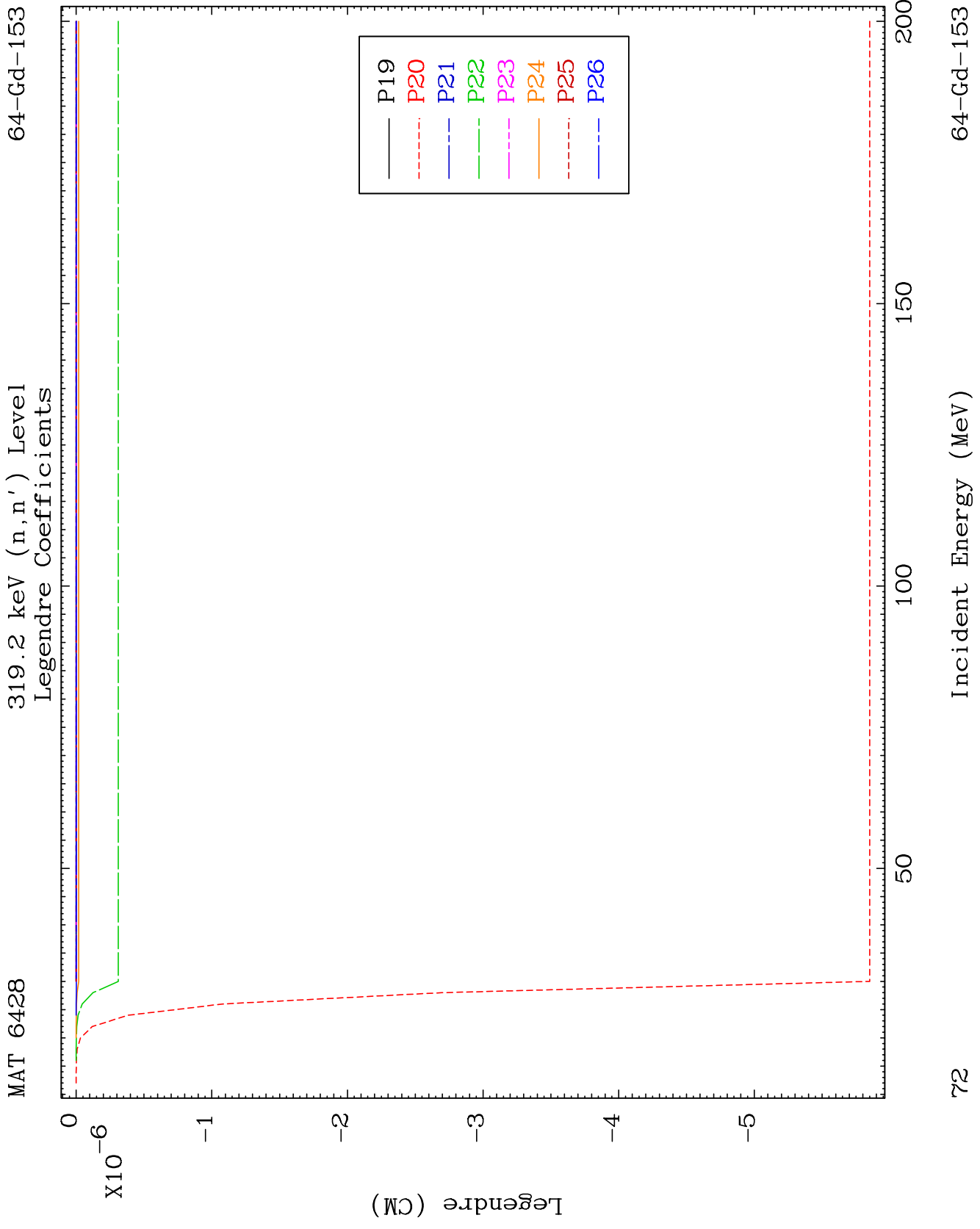
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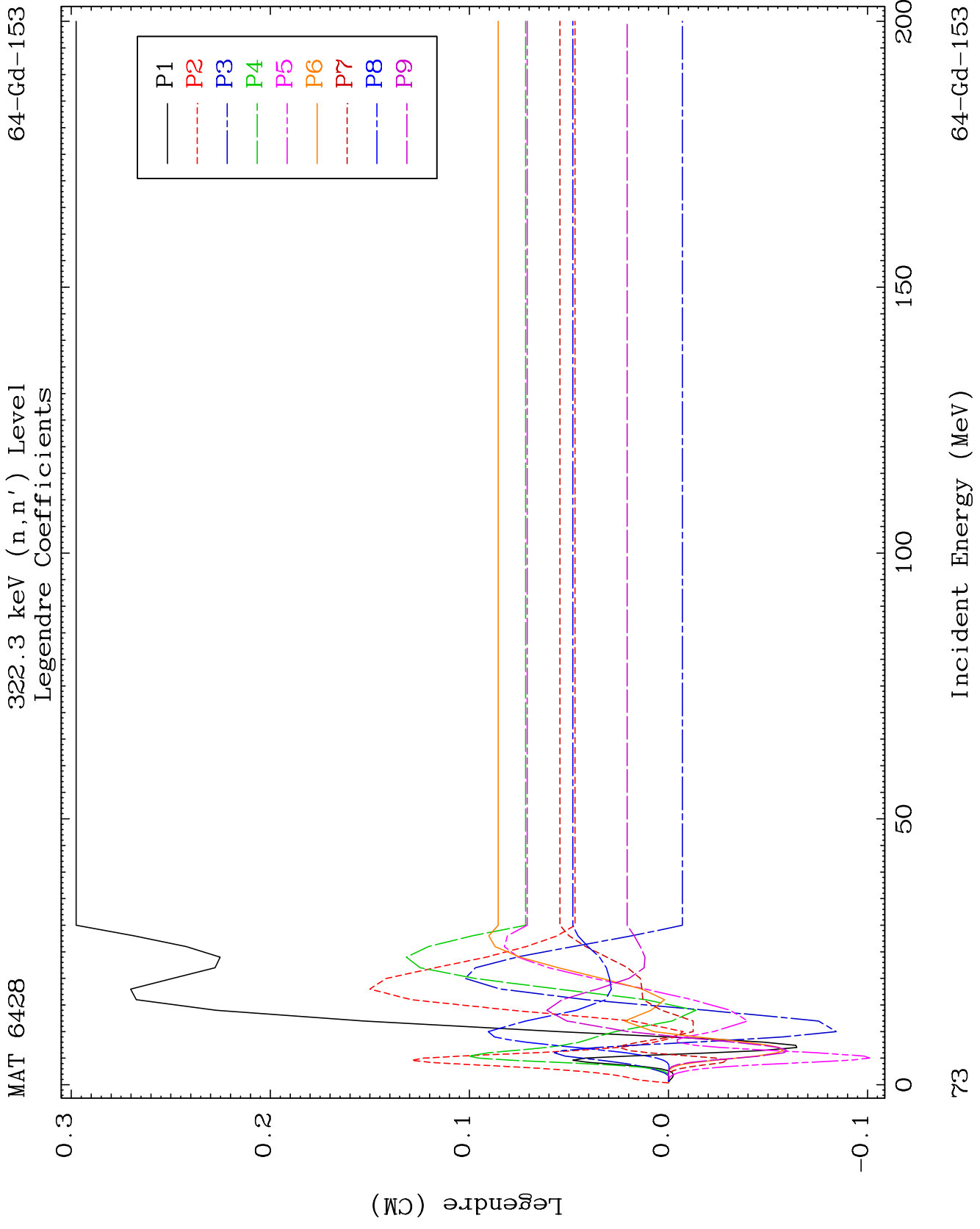


71

Incident Energy (MeV)

64-Gd-153

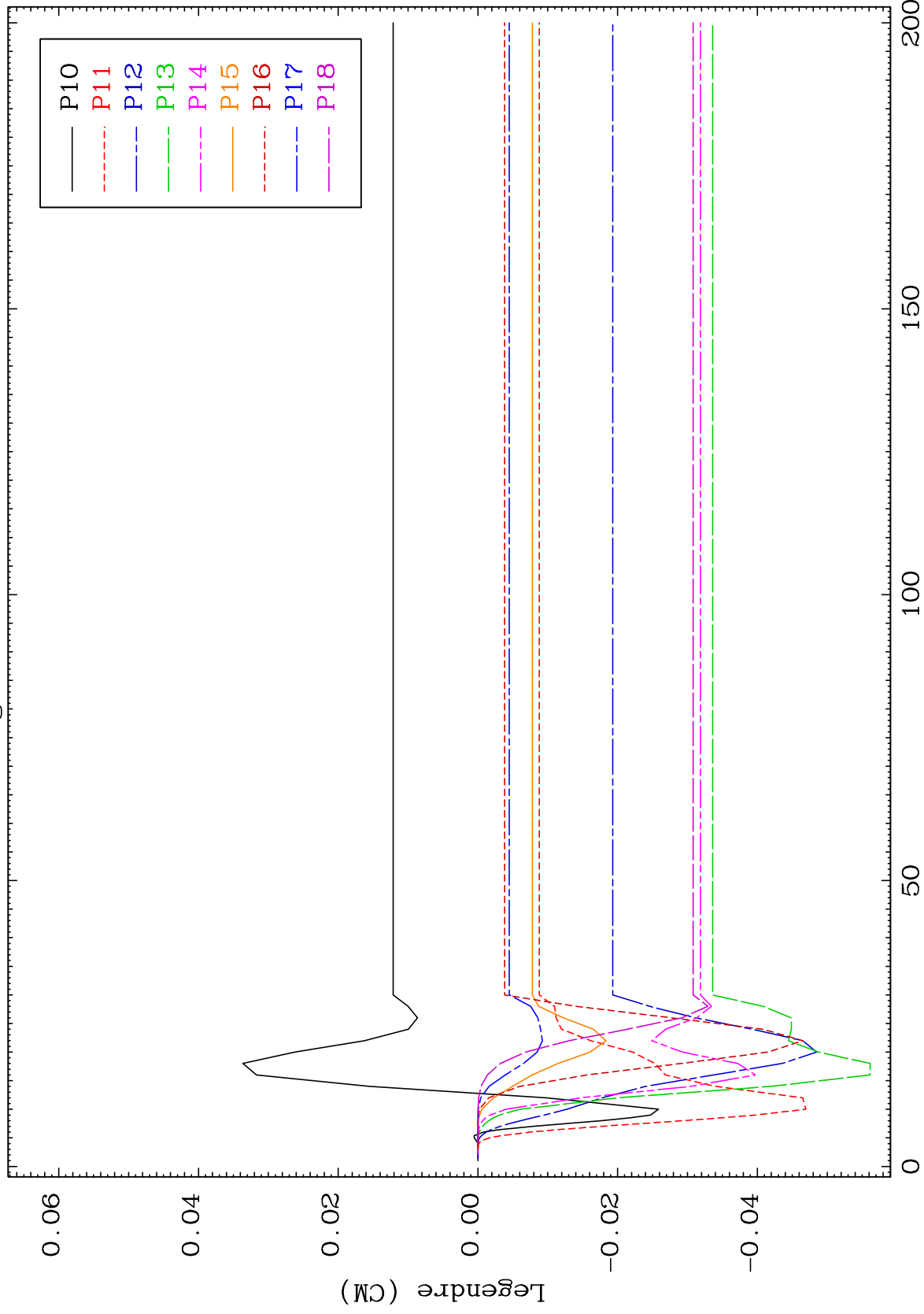




MAT 6428

322.3 keV (n,n') Level
Legendre Coefficients

64-Gd-153



74

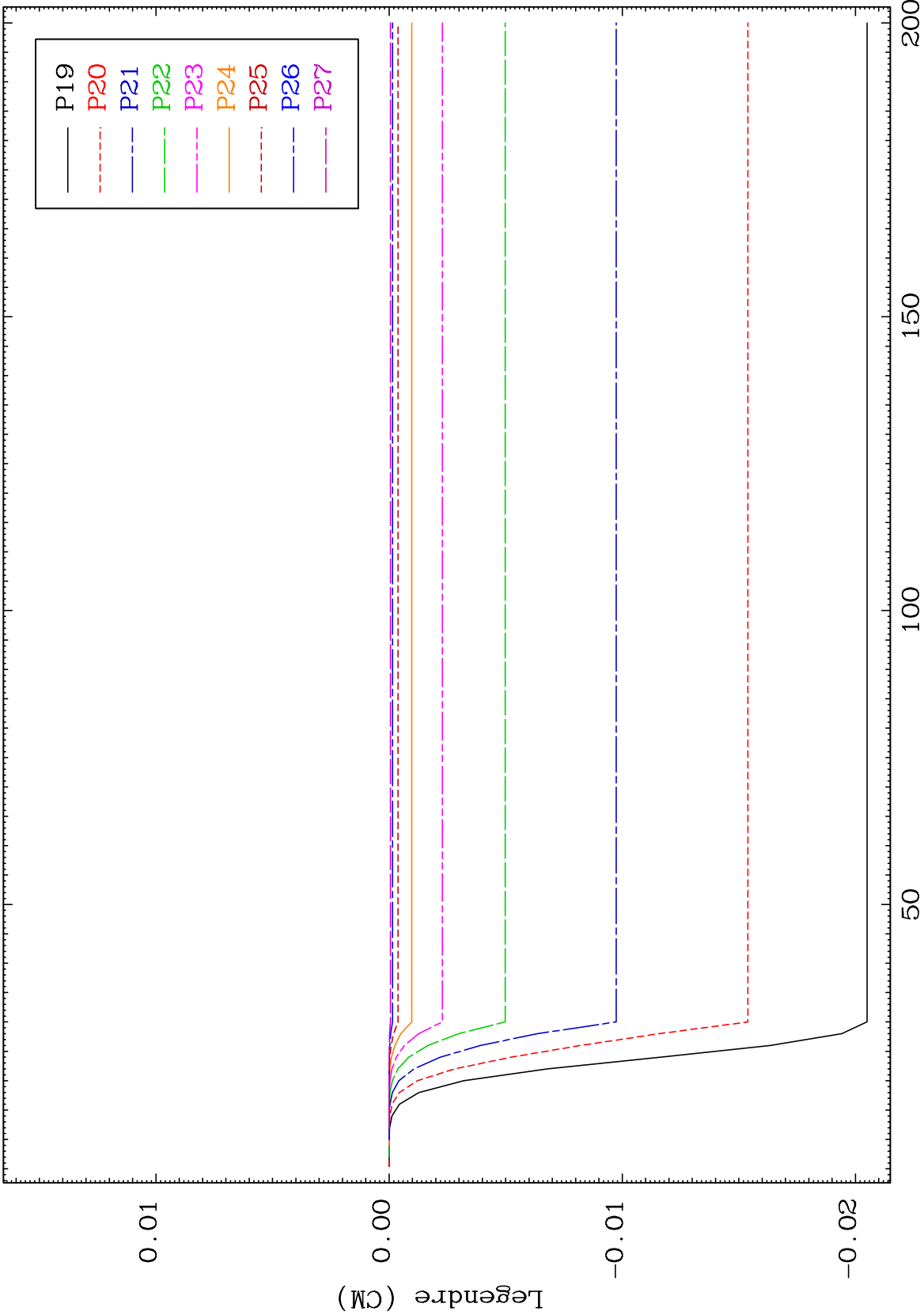
Incident Energy (MeV)

64-Gd-153

MAT 6428

322.3 keV (n,n') Level
Legendre Coefficients

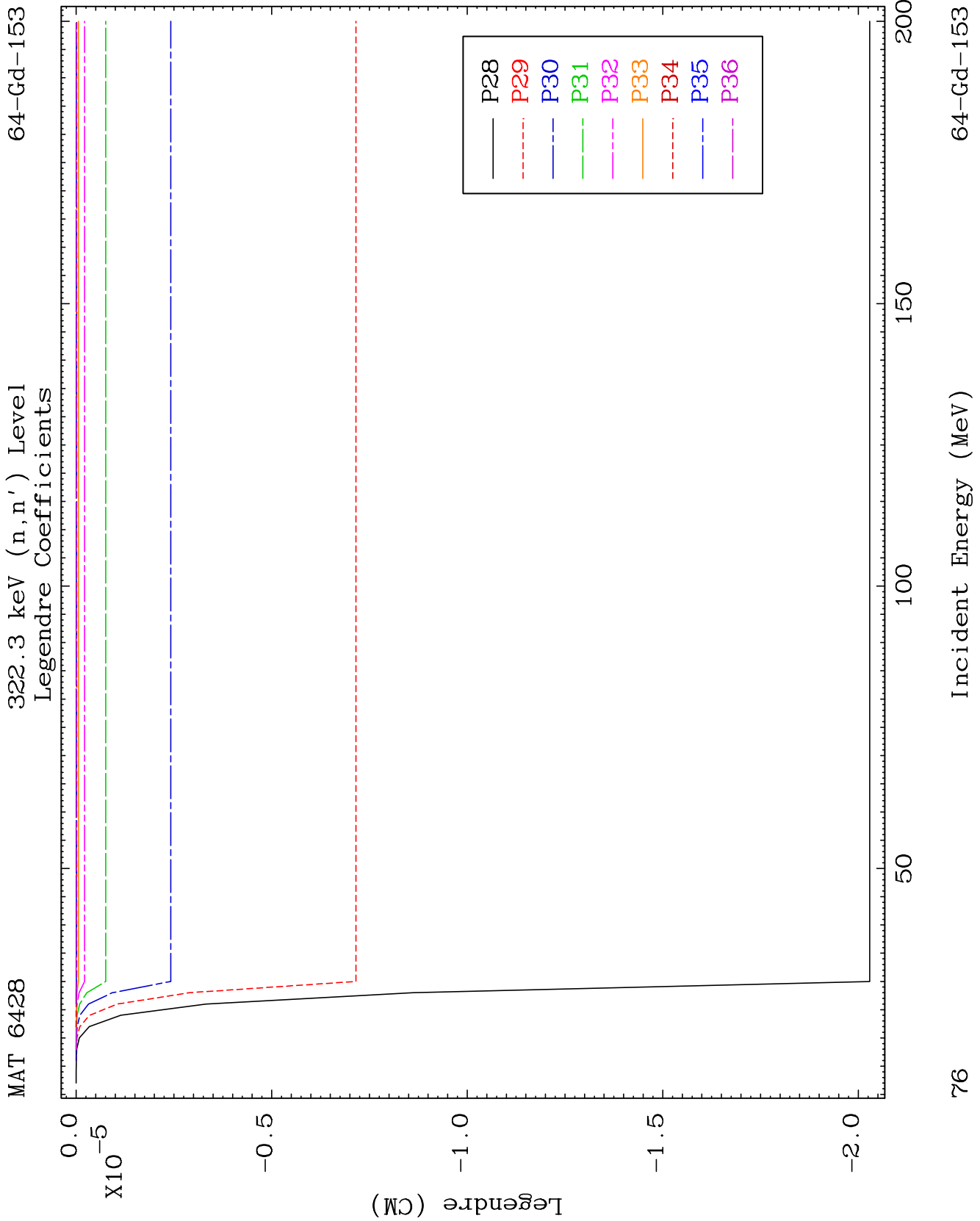
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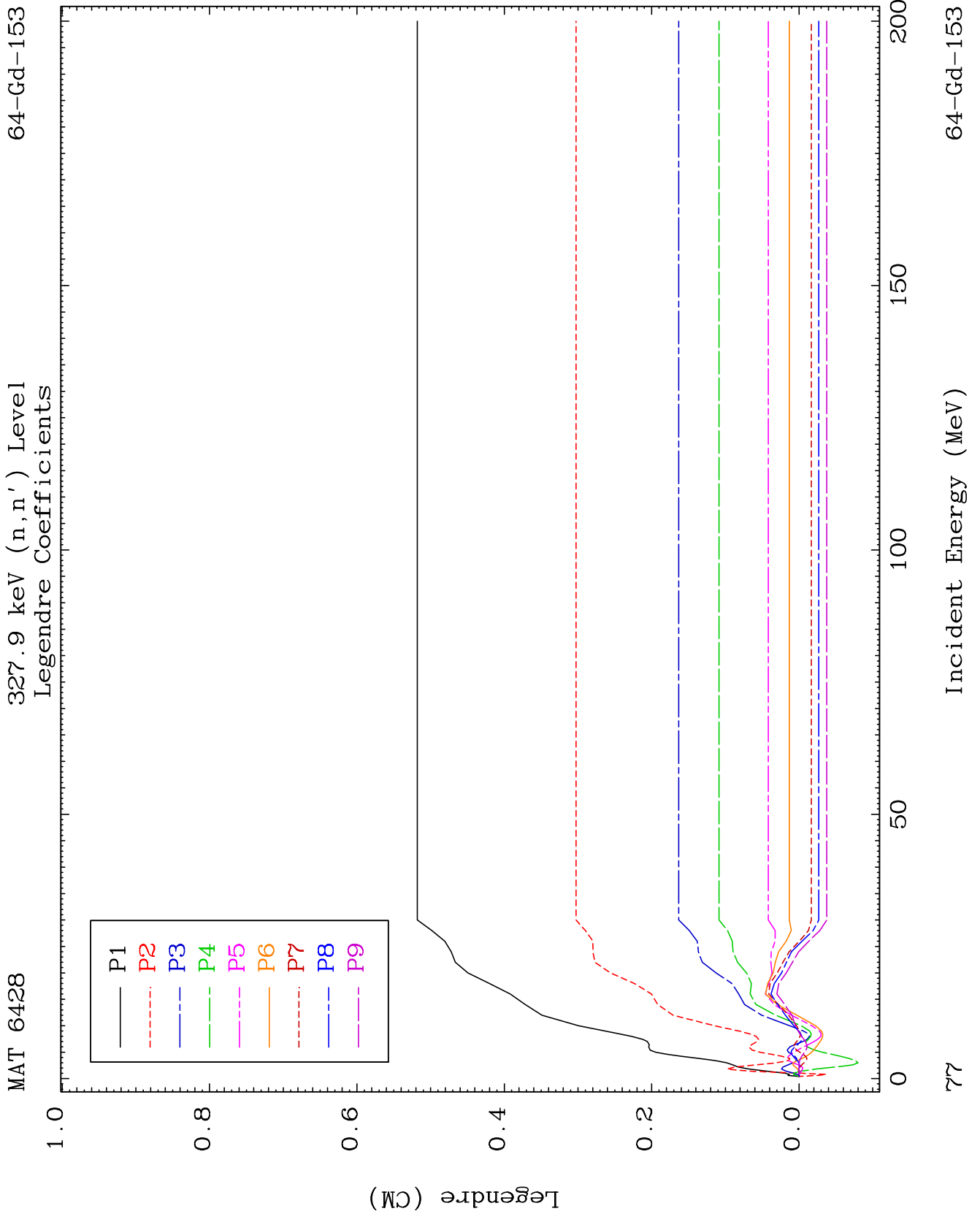


75

Incident Energy (MeV)

64-Gd-153

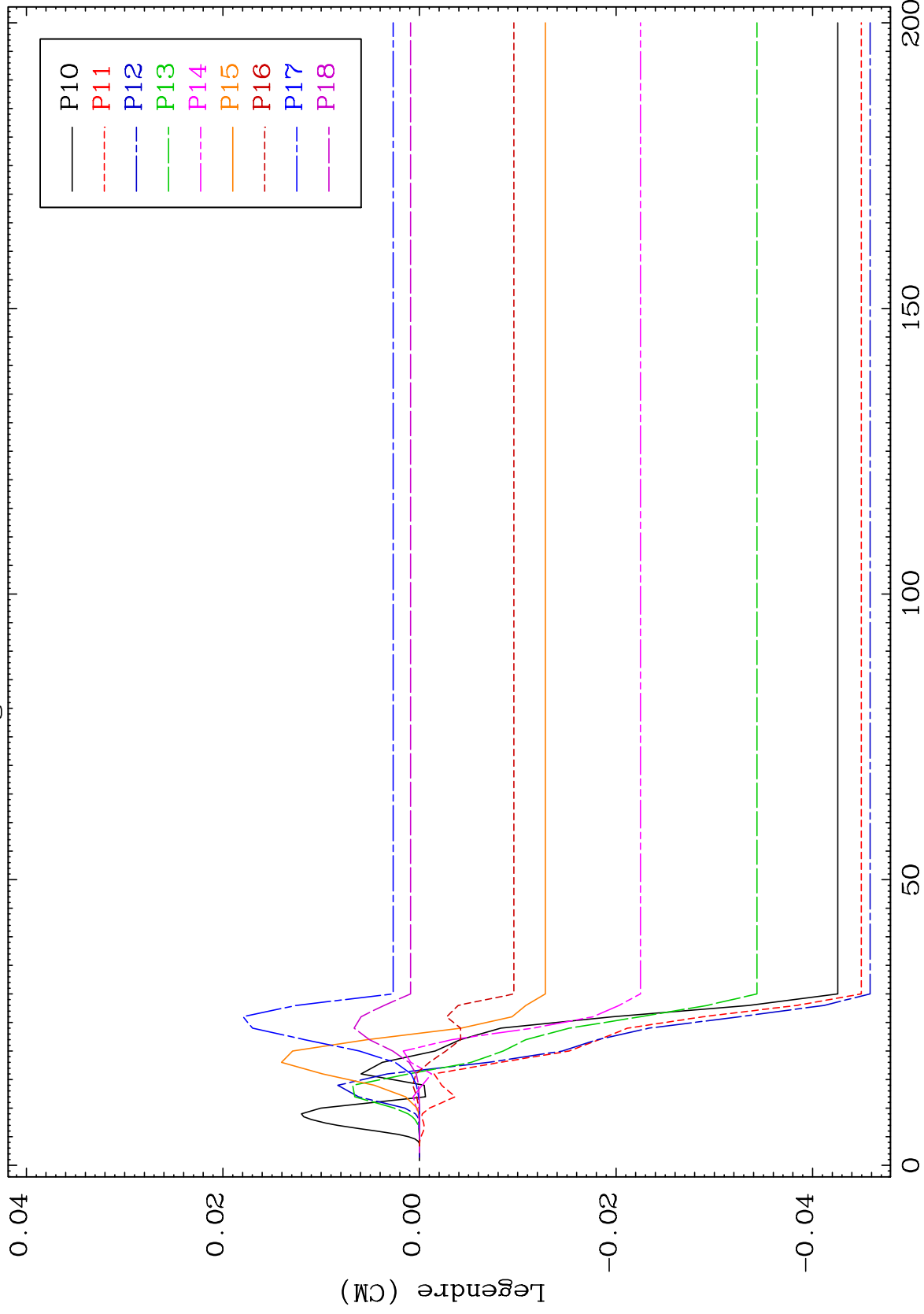




MAT 6428

327.9 keV (n,n') Level
Legendre Coefficients

64-Gd-153



78

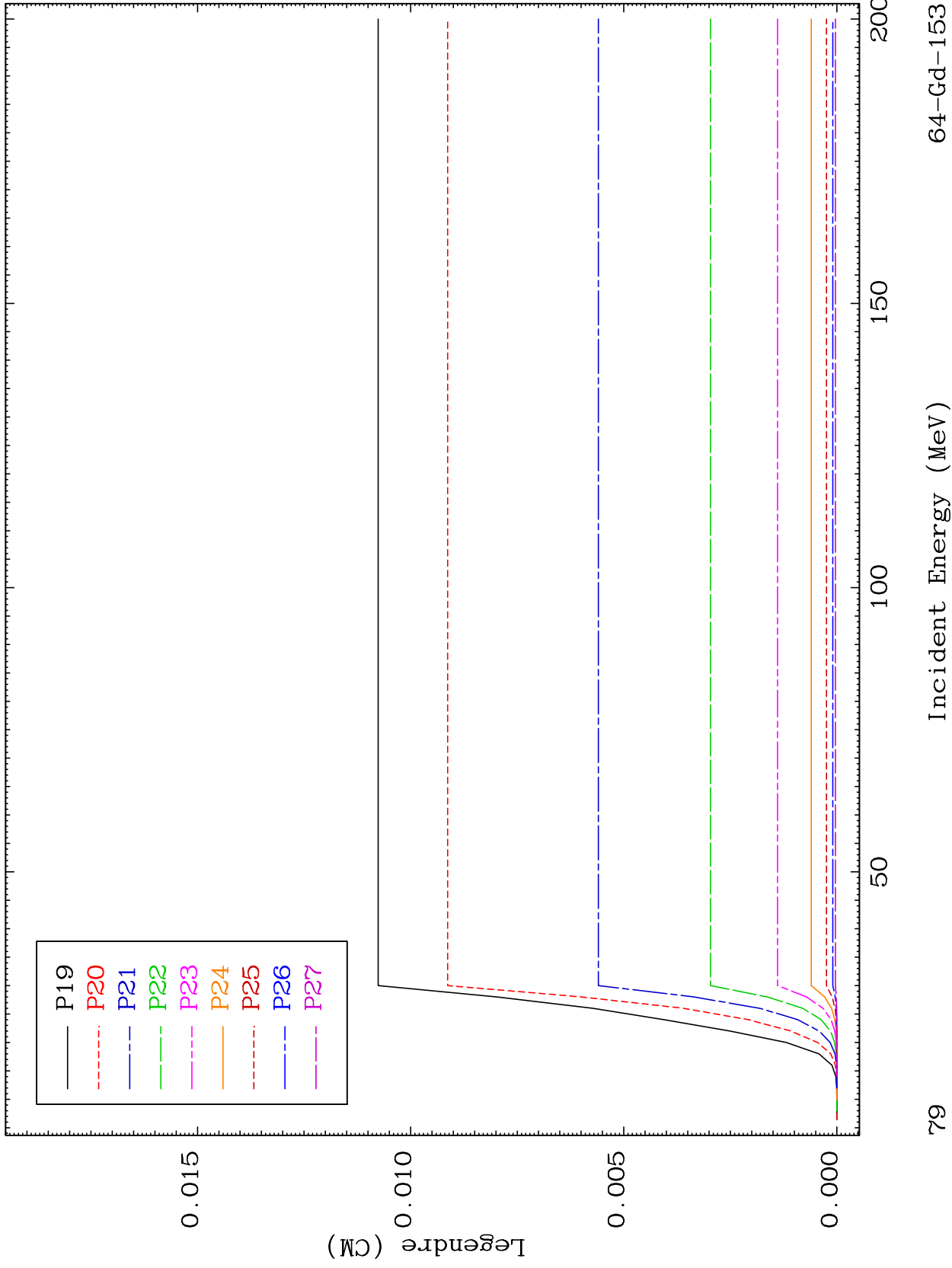
Incident Energy (MeV)

64-Gd-153

MAT 6428

327.9 keV (n,n') Level
Legendre Coefficients

64-Gd-153



79

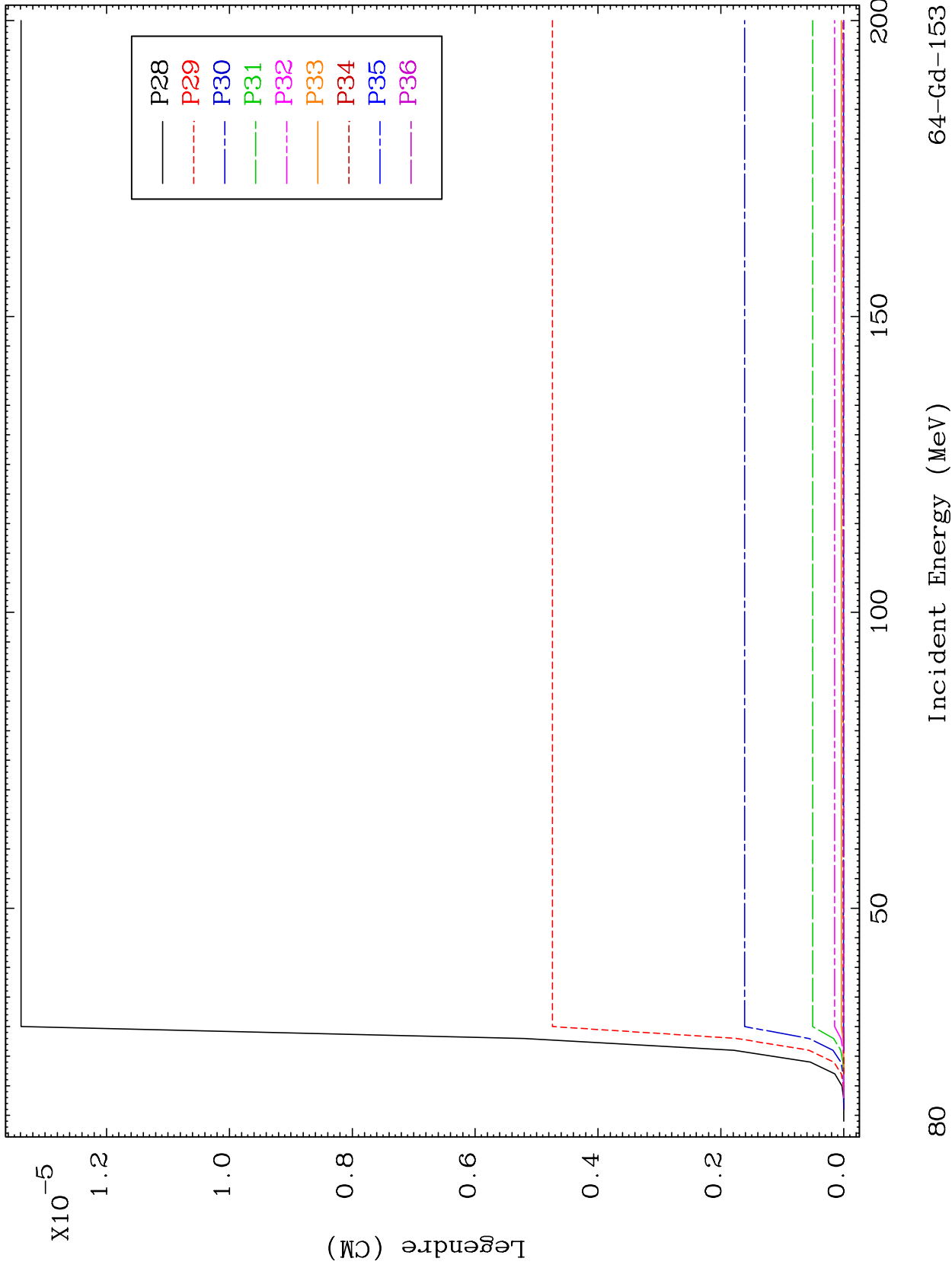
Incident Energy (MeV)

64-Gd-153

MAT 6428

327.9 keV (n,n') Level
Legendre Coefficients

64-Gd-153



64-Gd-153

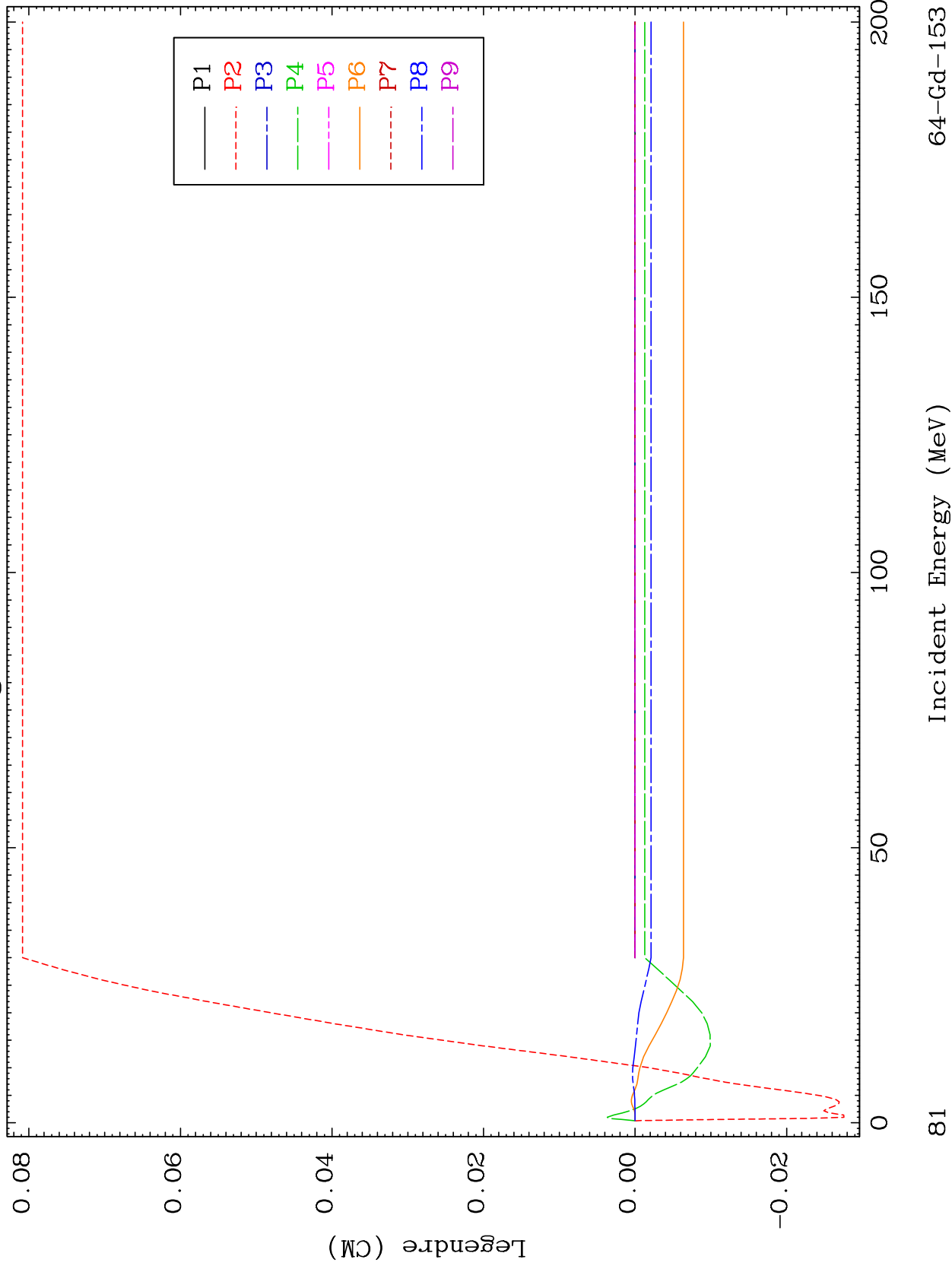
Incident Energy (MeV)

80

MAT 6428

333.2 keV (n,n') Level
Legendre Coefficients

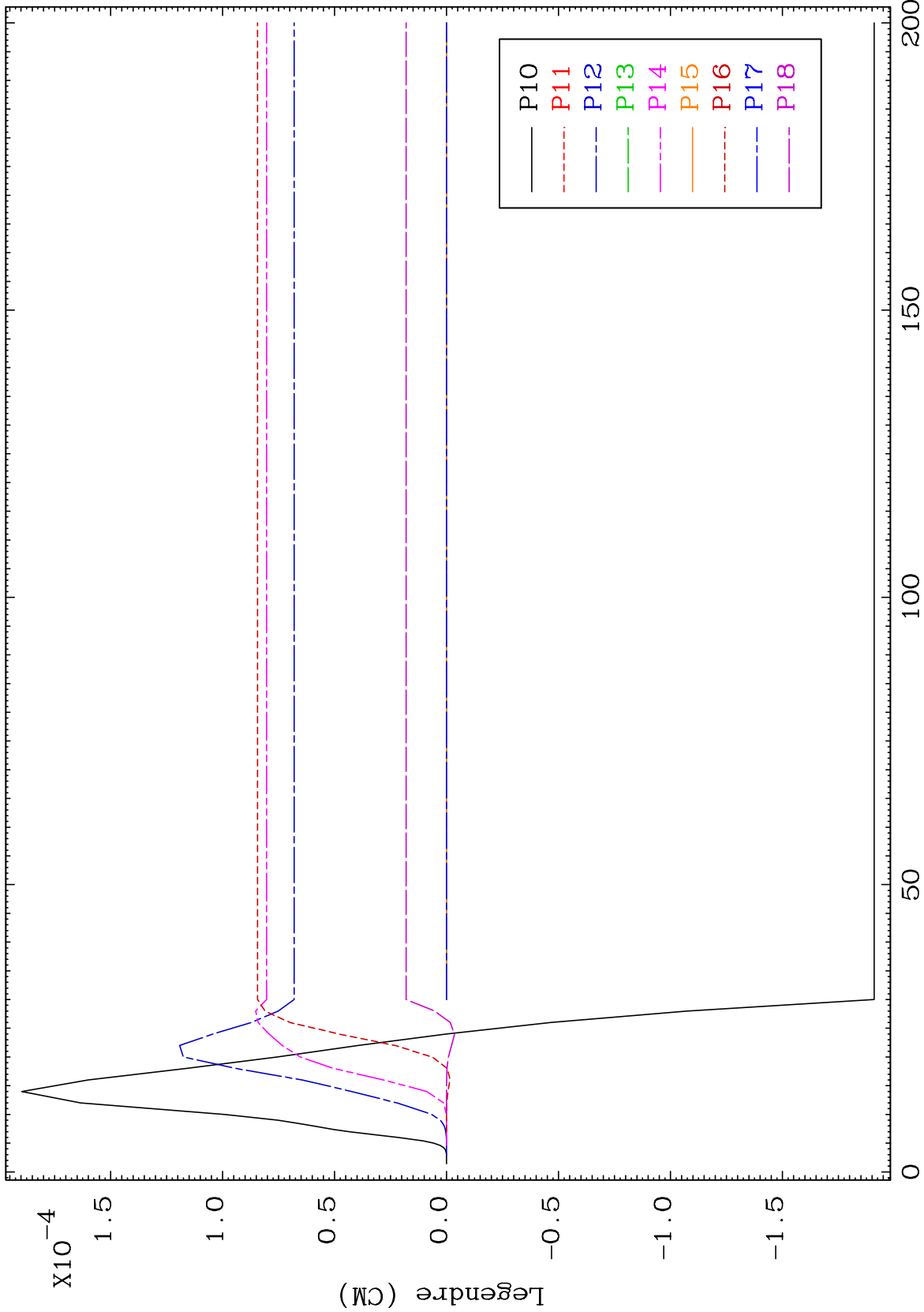
64-Gd-153

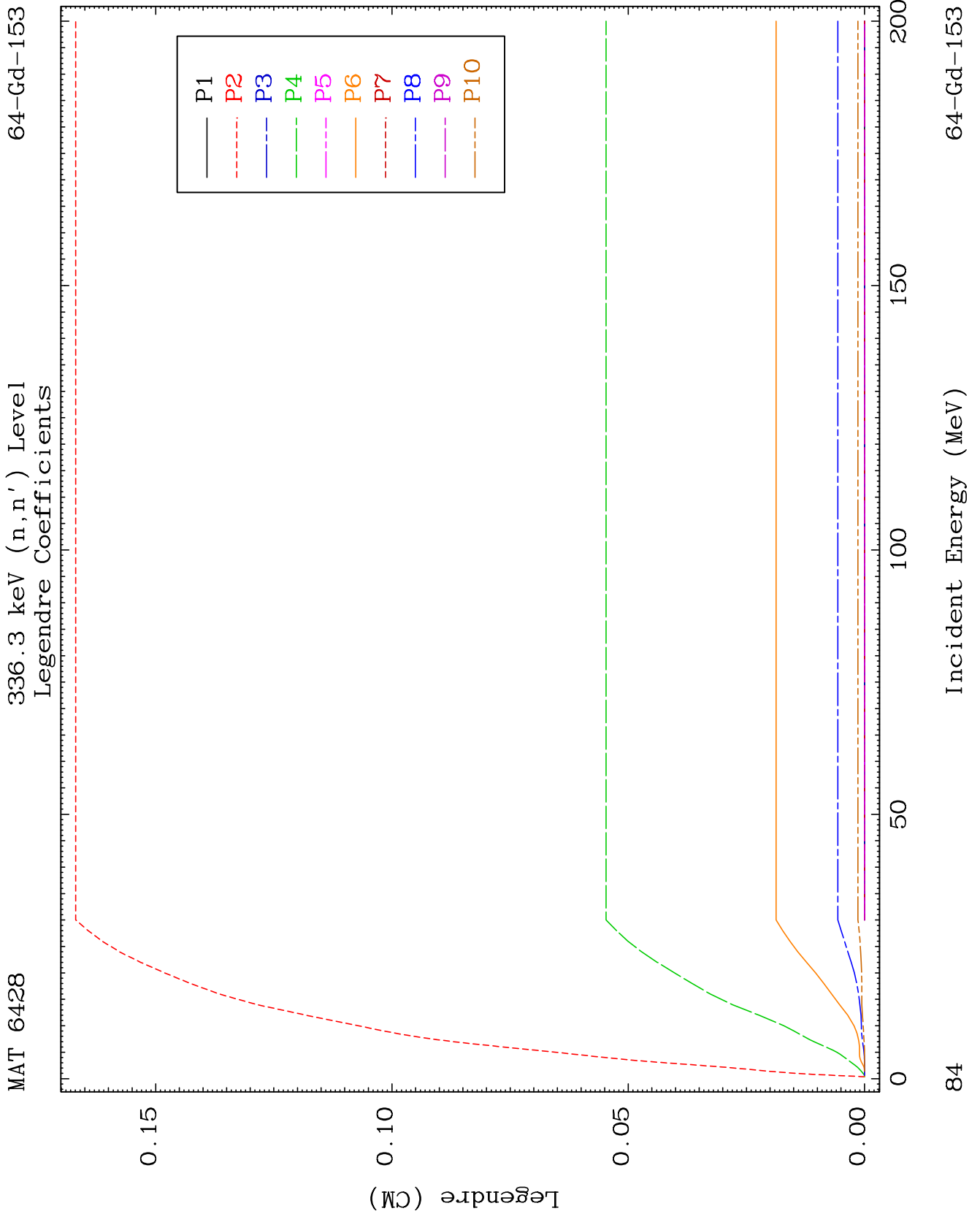


64-Gd-153

Incident Energy (MeV)

81

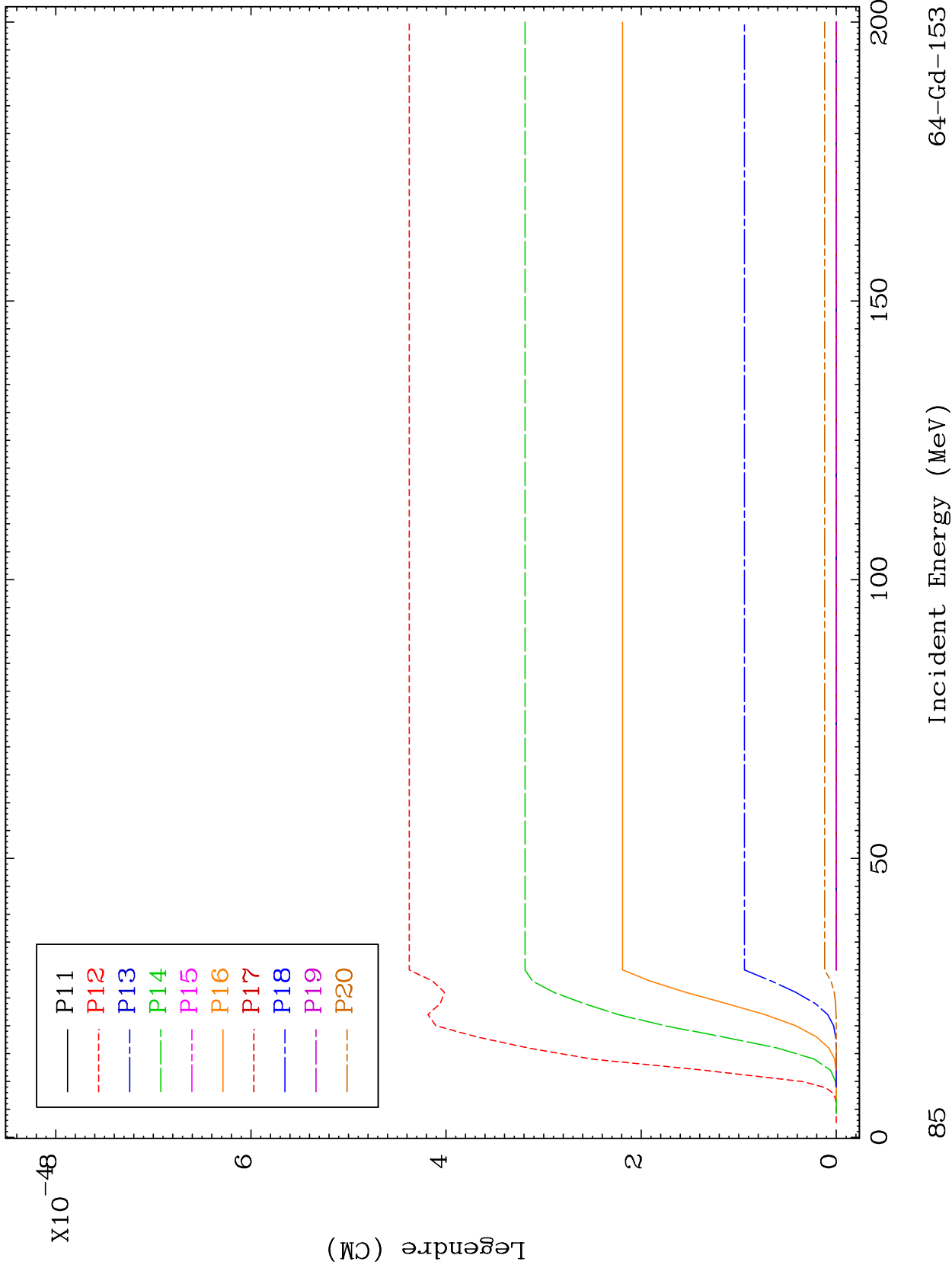




MAT 6428

336.3 keV (n,n') Level
Legendre Coefficients

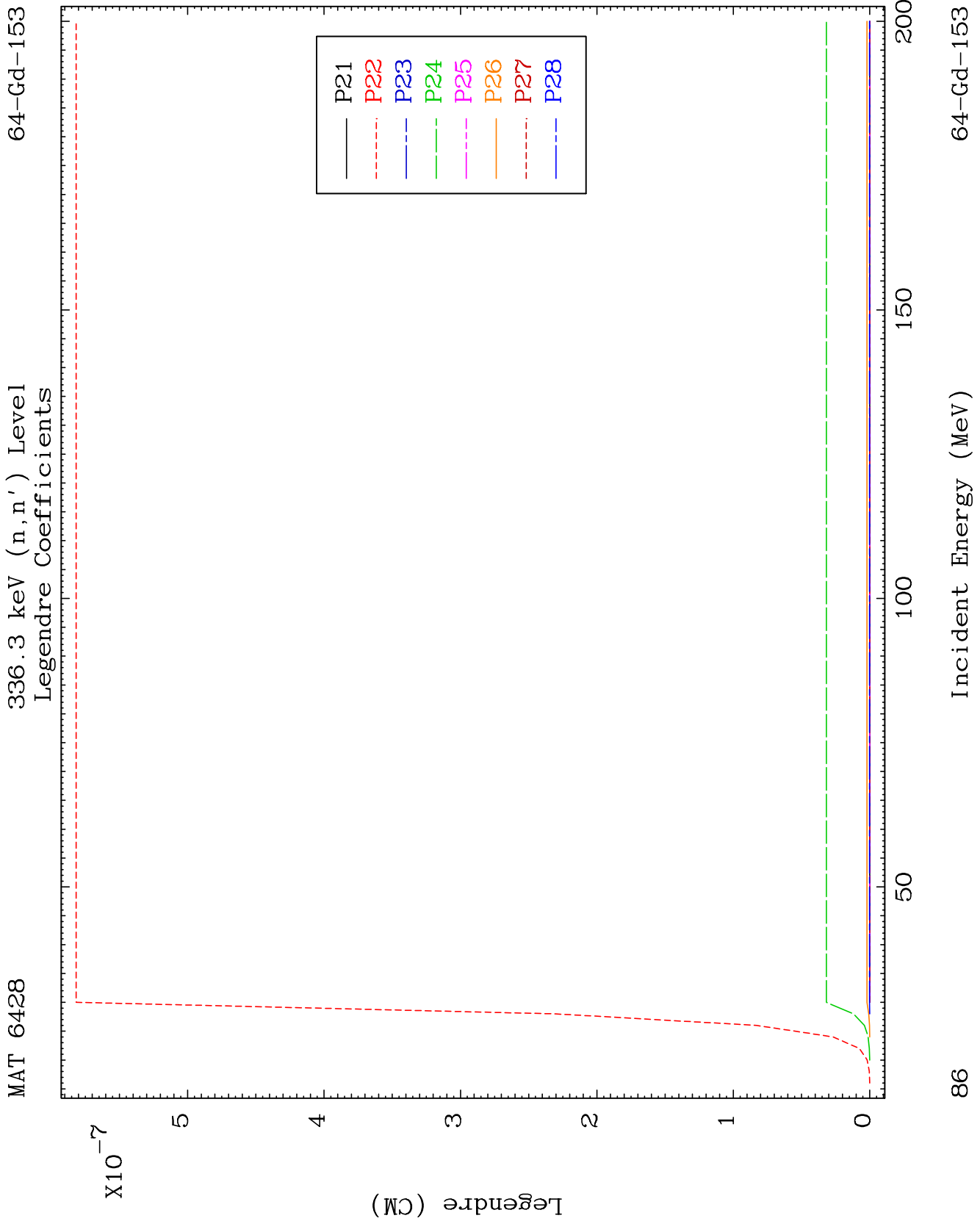
64-Gd-153



85

Incident Energy (MeV)

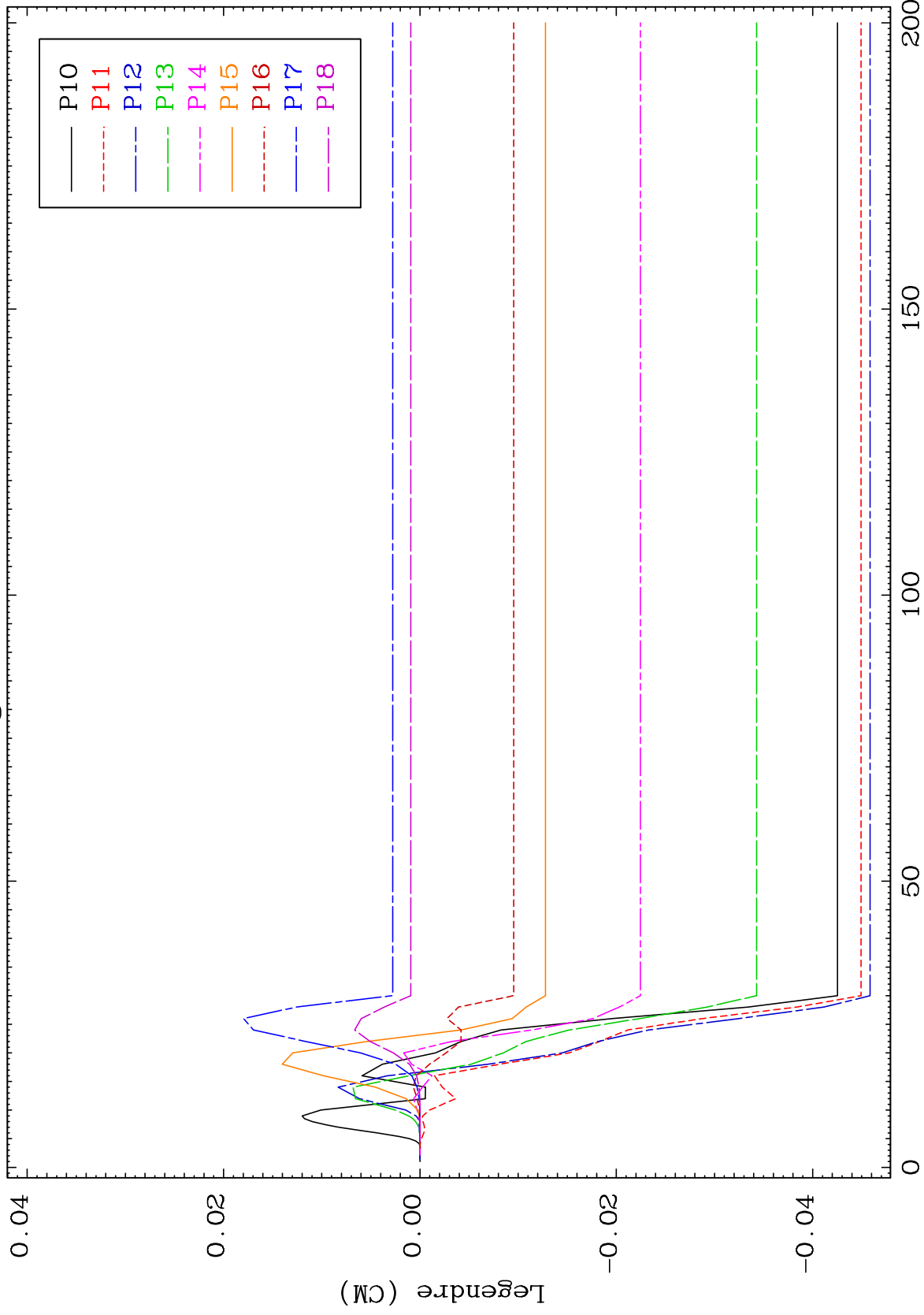
64-Gd-153



MAT 6428

361.7 keV (n,n') Level
Legendre Coefficients

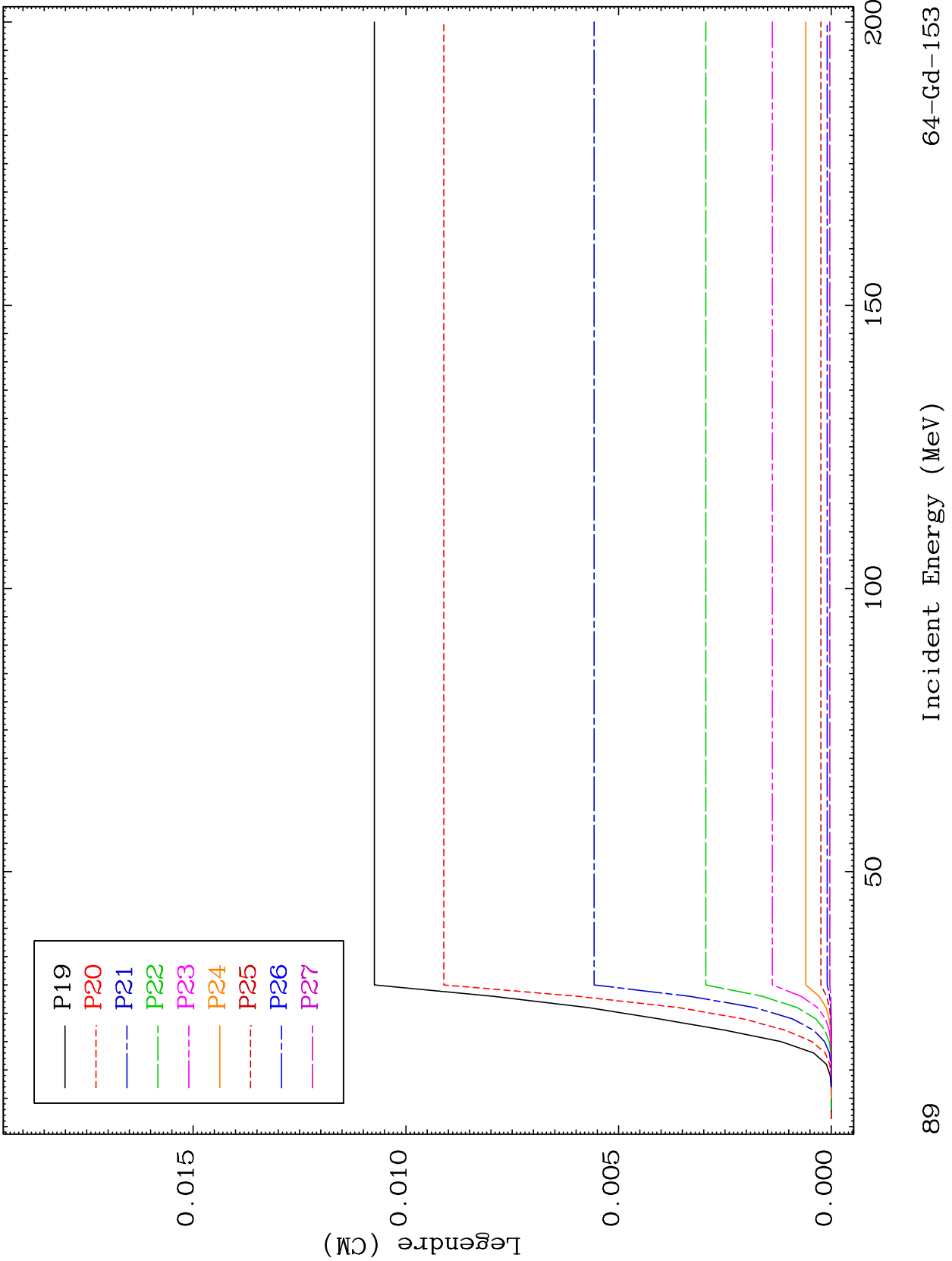
64-Gd-153



88

Incident Energy (MeV)

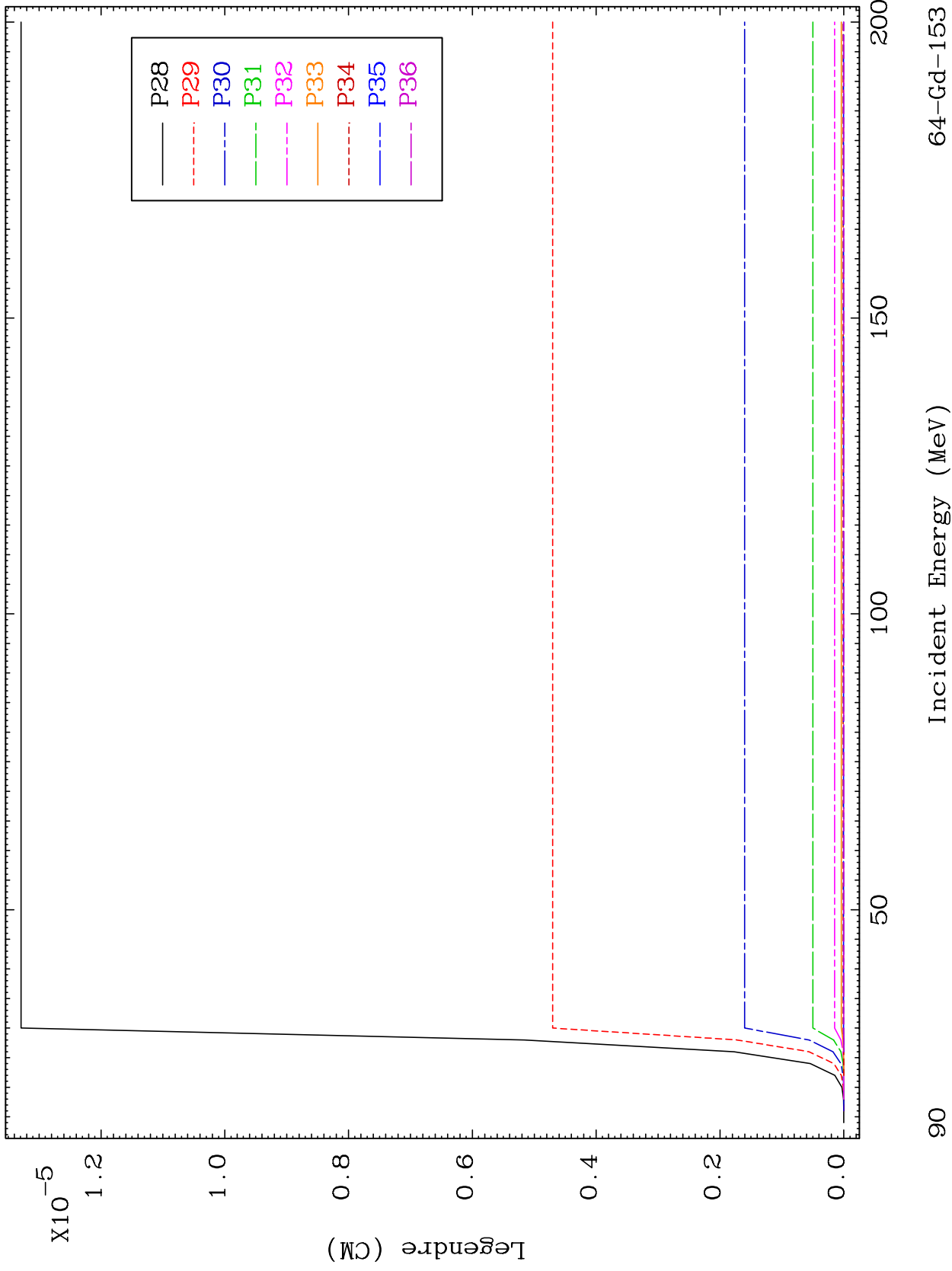
64-Gd-153



MAT 6428

361.7 keV (n,n') Level
Legendre Coefficients

64-Gd-153



90

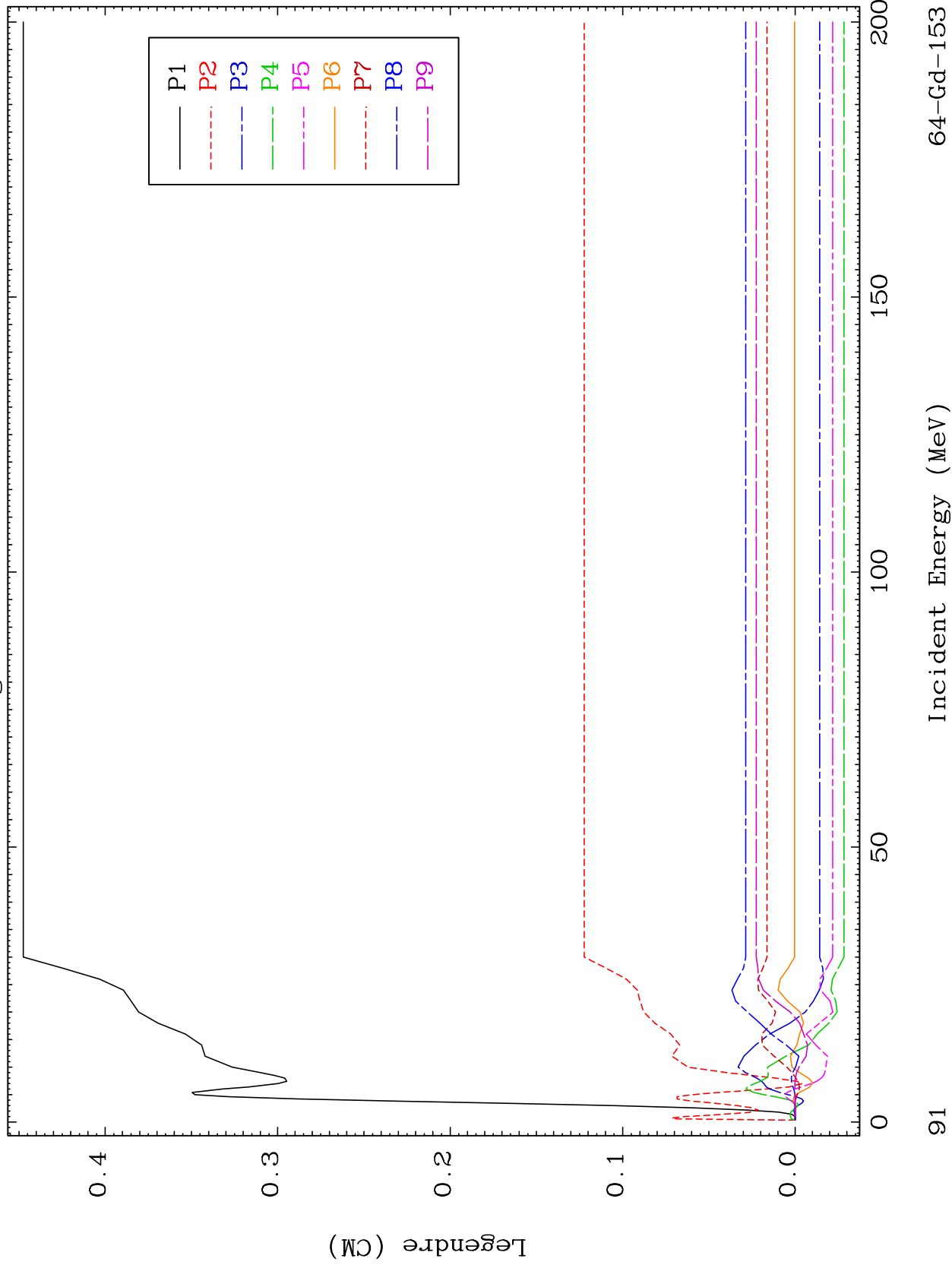
Incident Energy (MeV)

64-Gd-153

MAT 6428

363.4 keV (n,n') Level
Legendre Coefficients

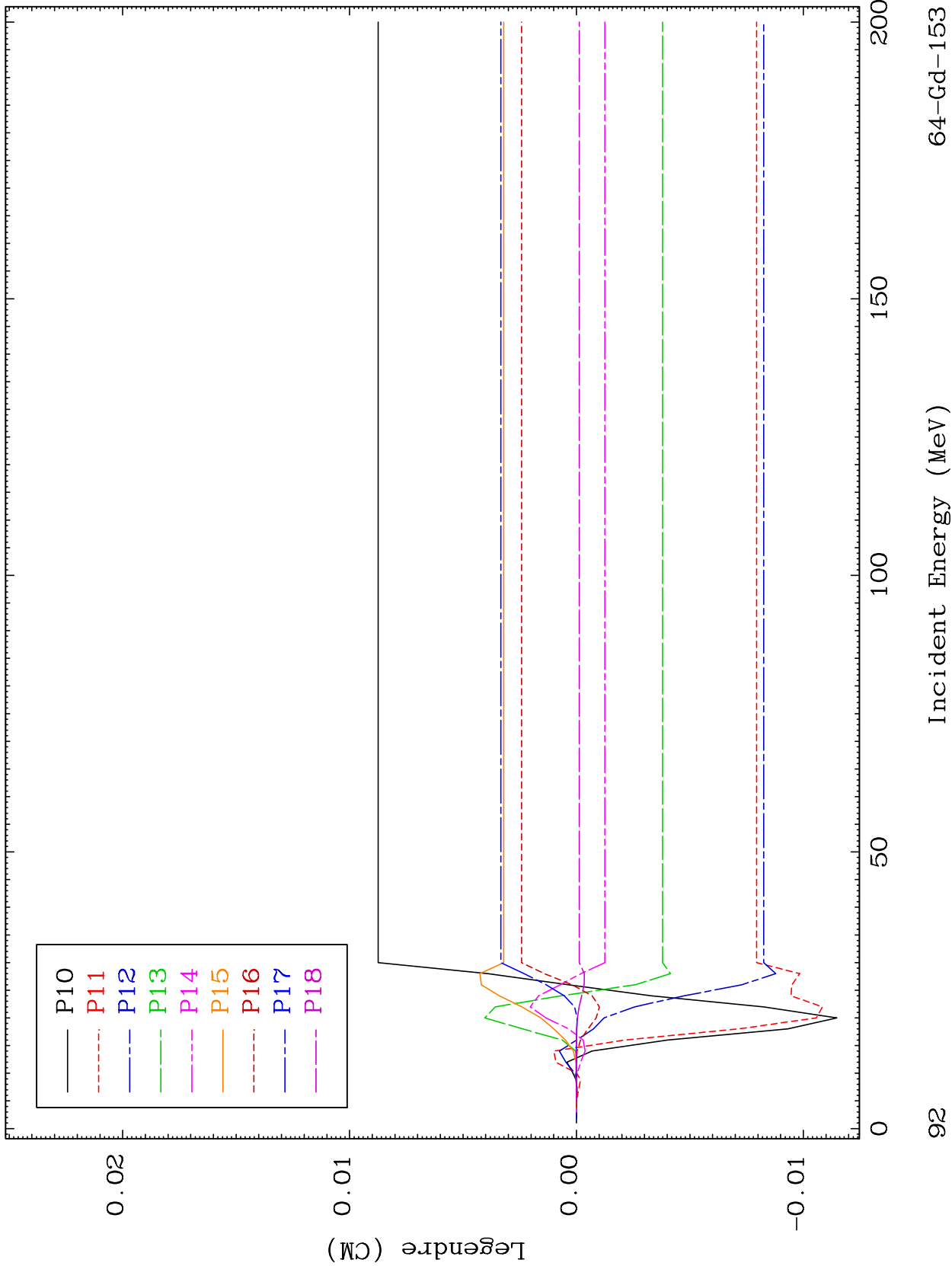
64-Gd-153

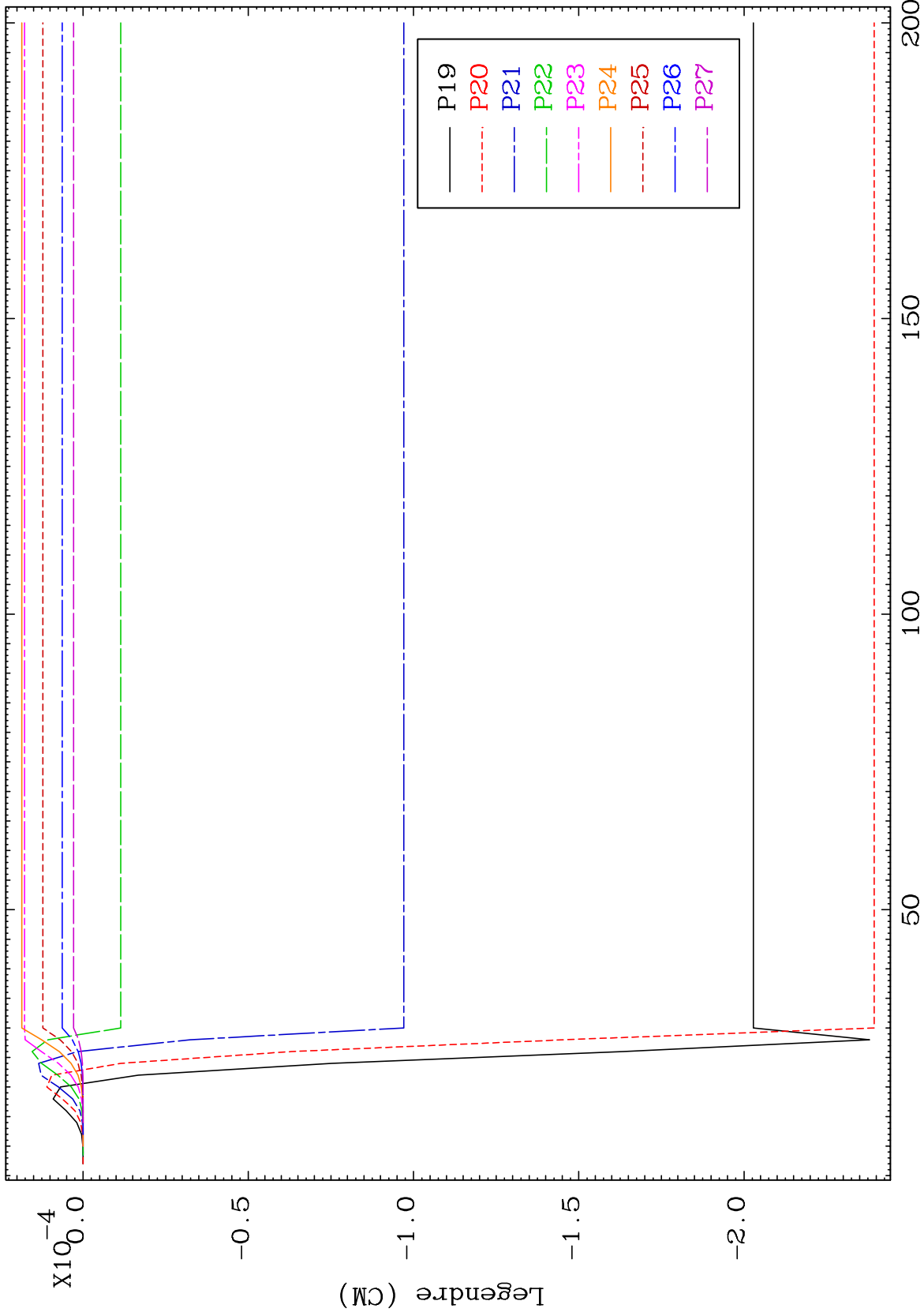


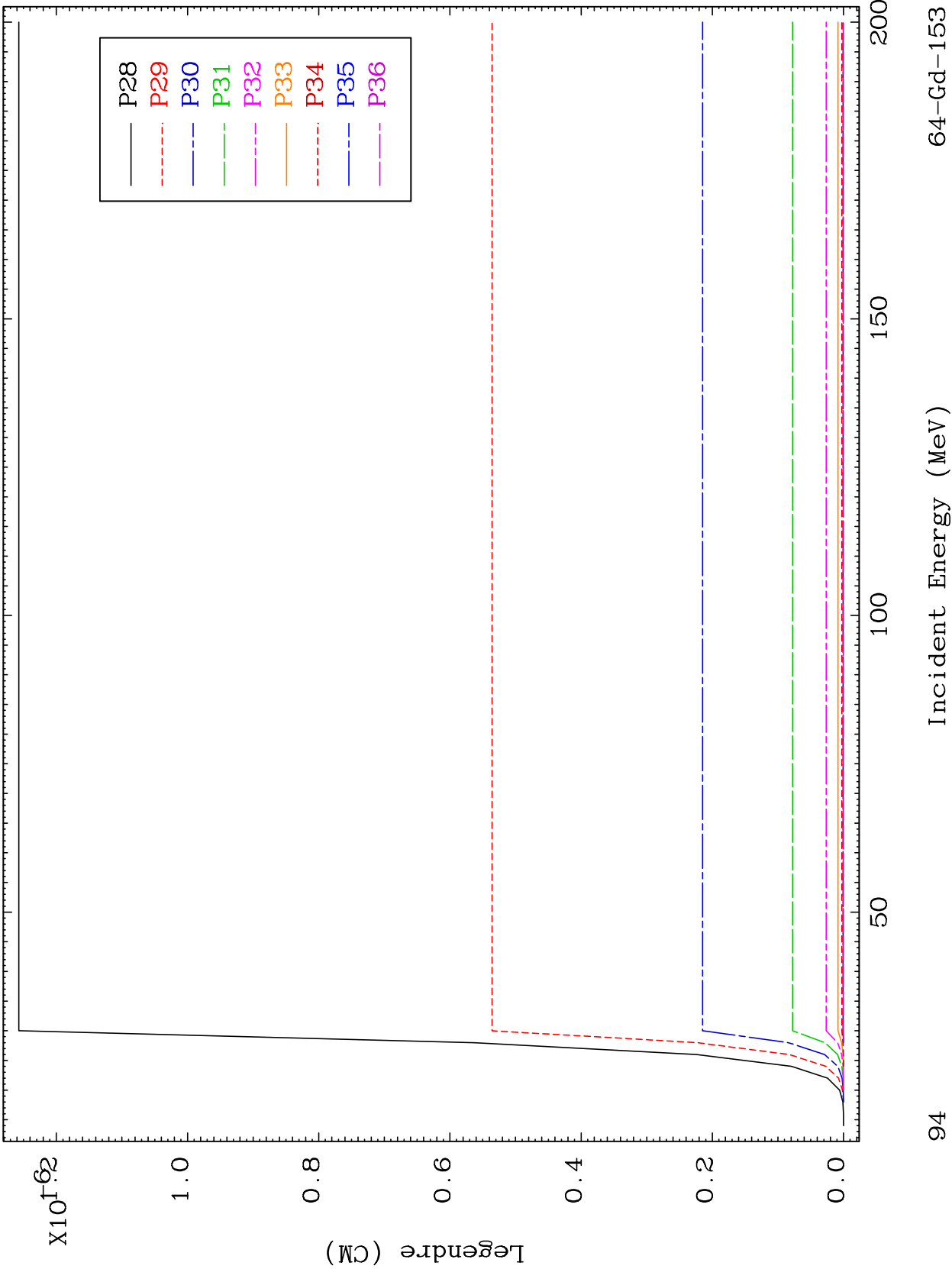
64-Gd-153

Incident Energy (MeV)

91



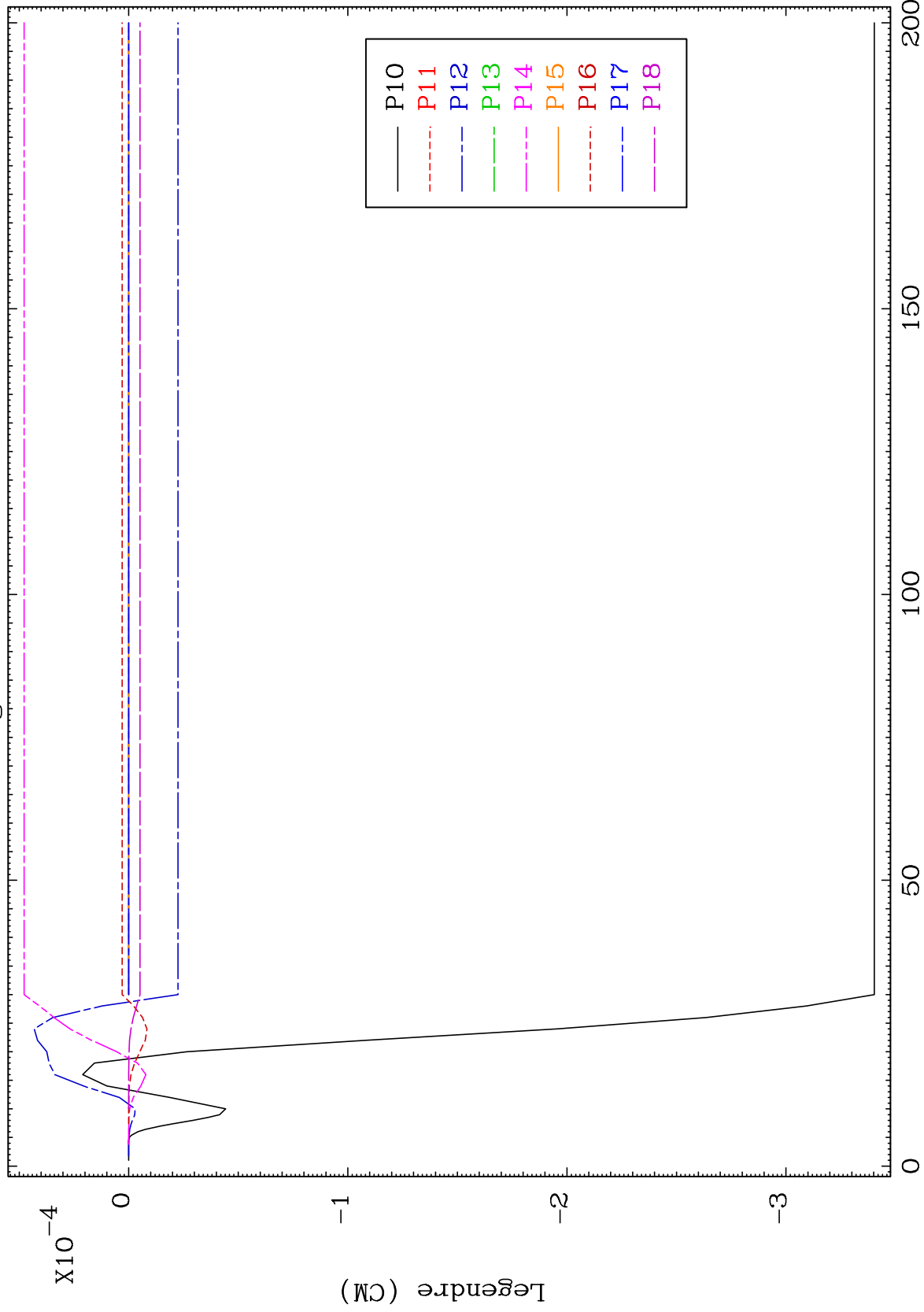




MAT 6428

365.4 keV (n,n') Level
Legendre Coefficients

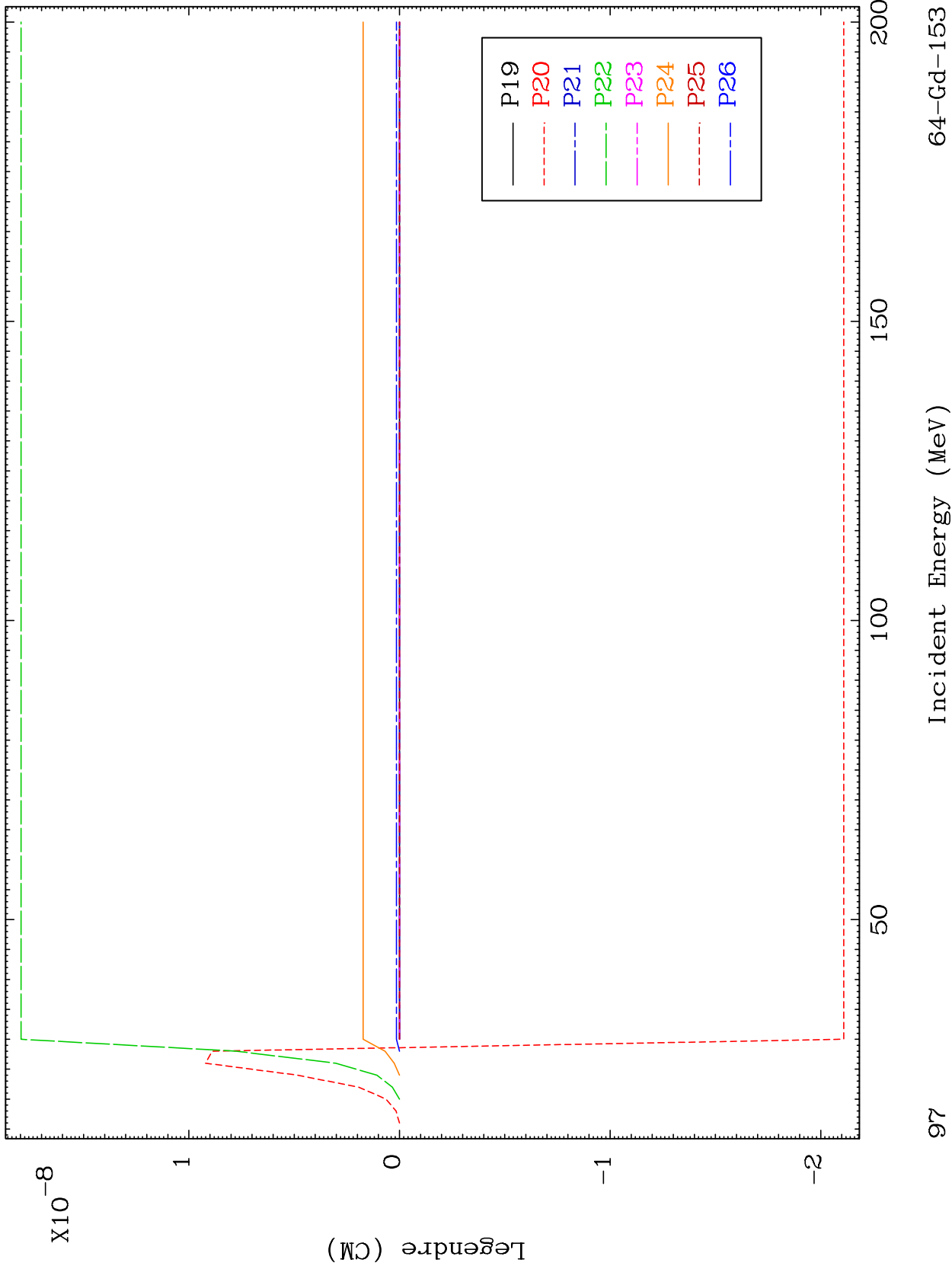
64-Gd-153

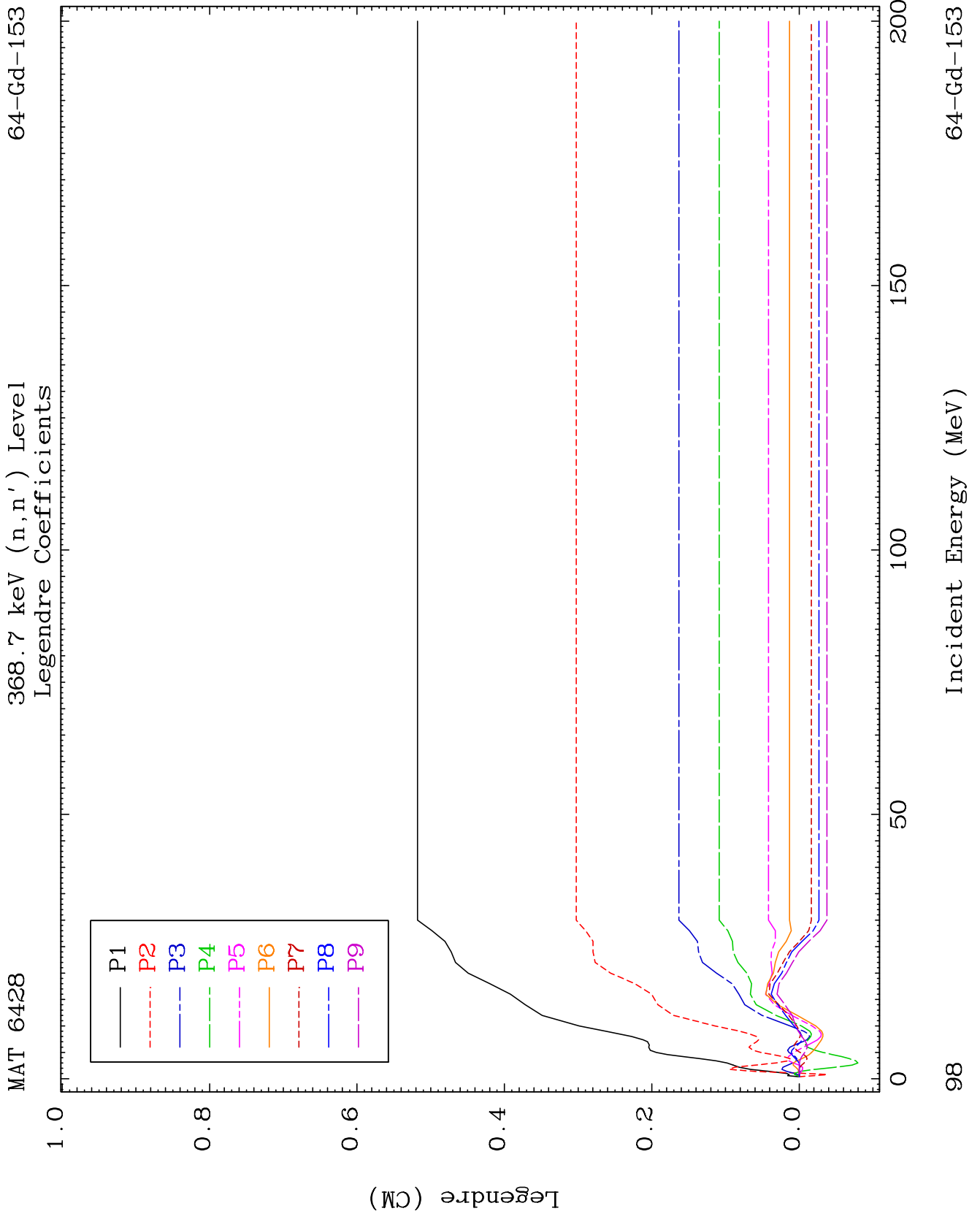


96

Incident Energy (MeV)

64-Gd-153

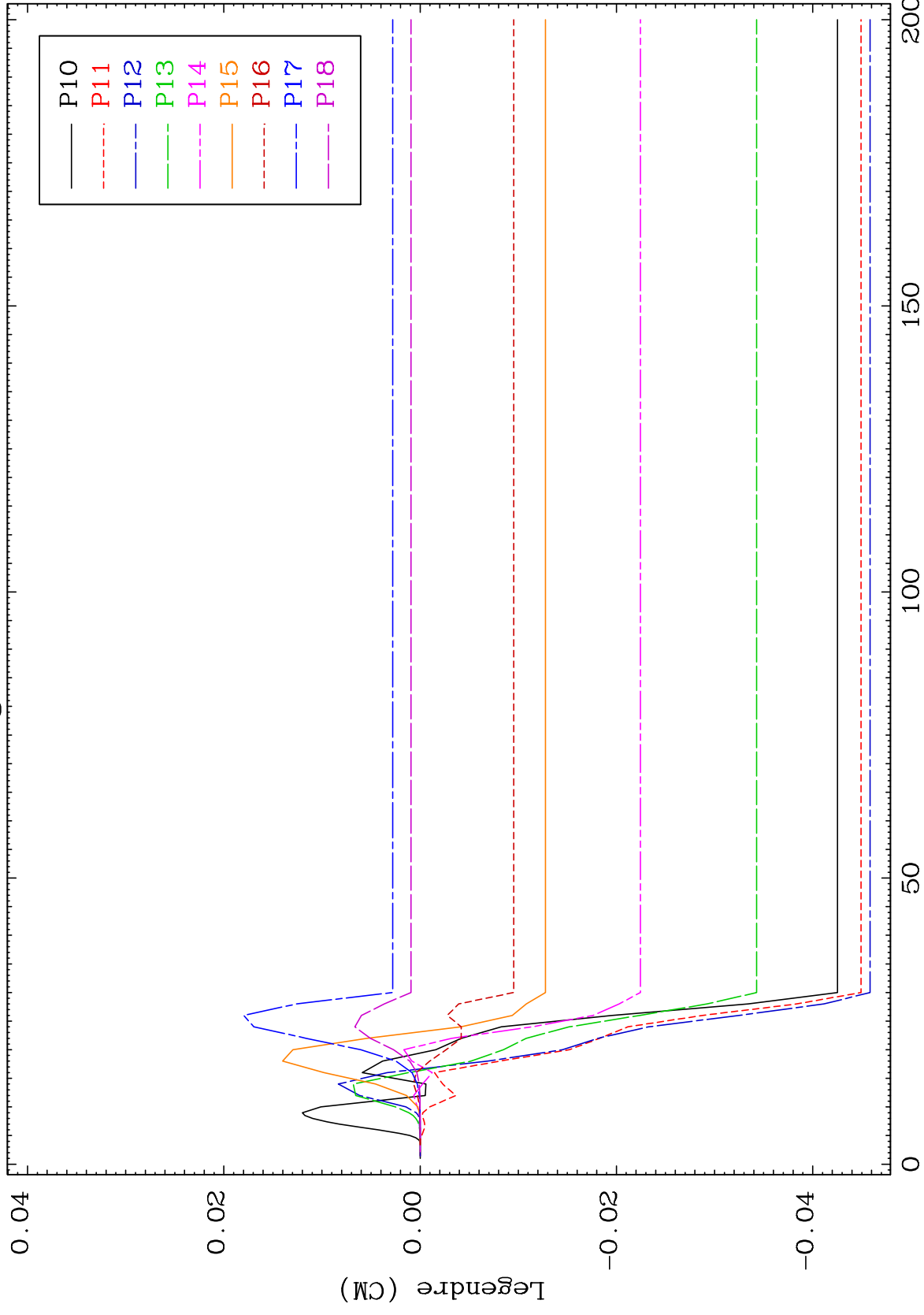




MAT 6428

368.7 keV (n,n') Level
Legendre Coefficients

64-Gd-153



99

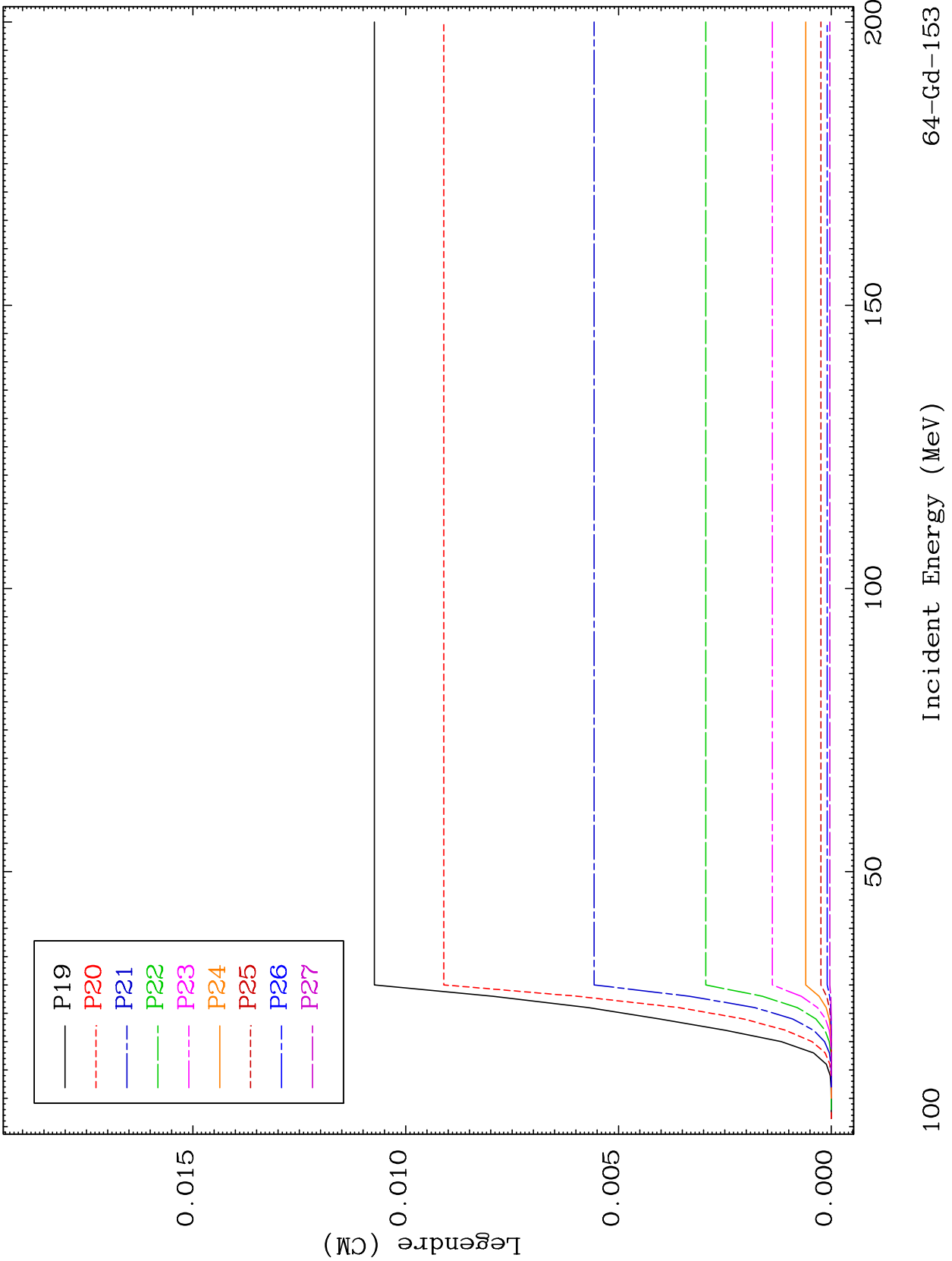
Incident Energy (MeV)

64-Gd-153

MAT 6428

368.7 keV (n,n') Level
Legendre Coefficients

64-Gd-153



64-Gd-153

Incident Energy (MeV)

100

0.015

0.010

0.005

0.000

50

100

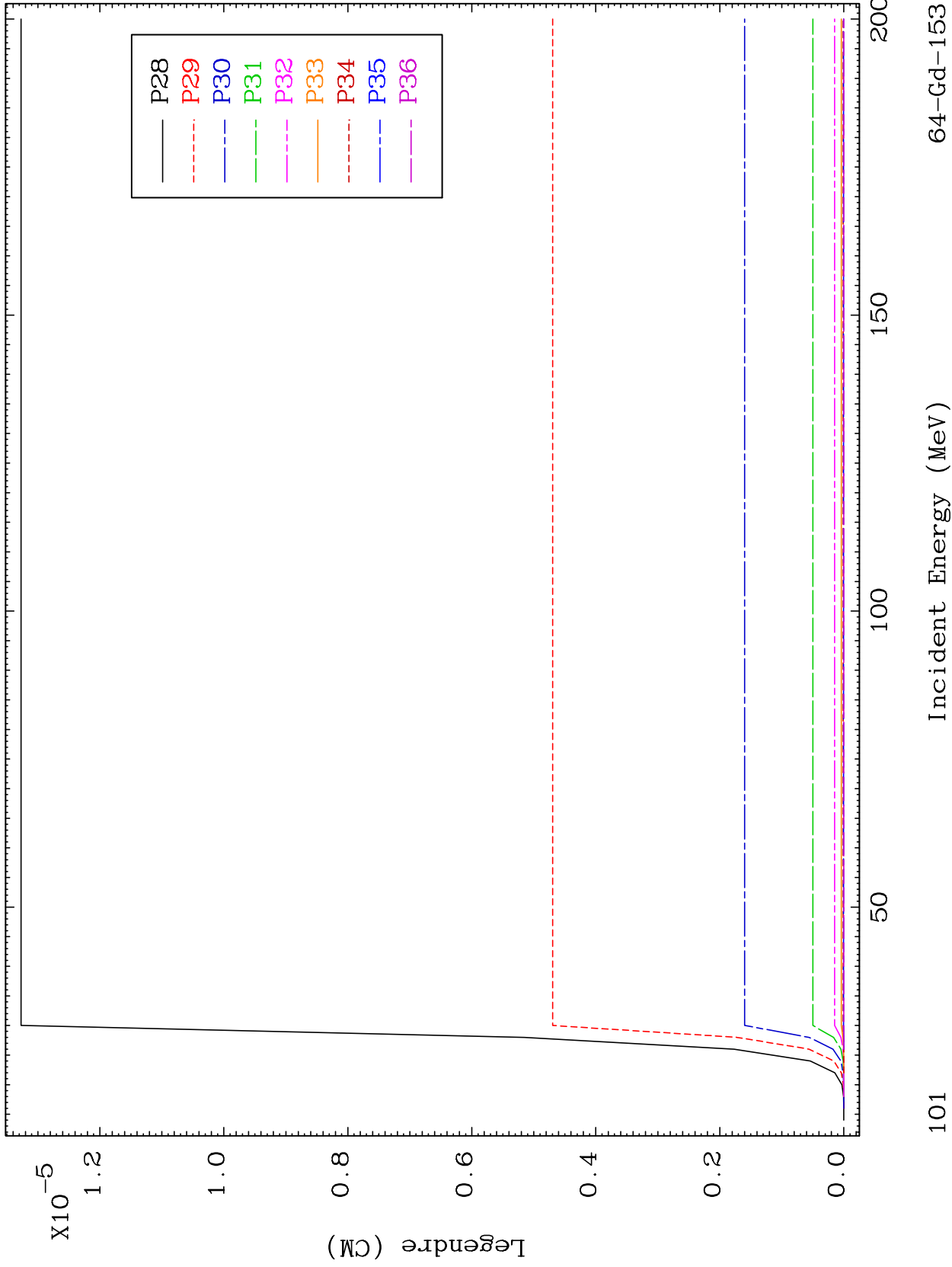
150

200

MAT 6428

368.7 keV (n,n') Level
Legendre Coefficients

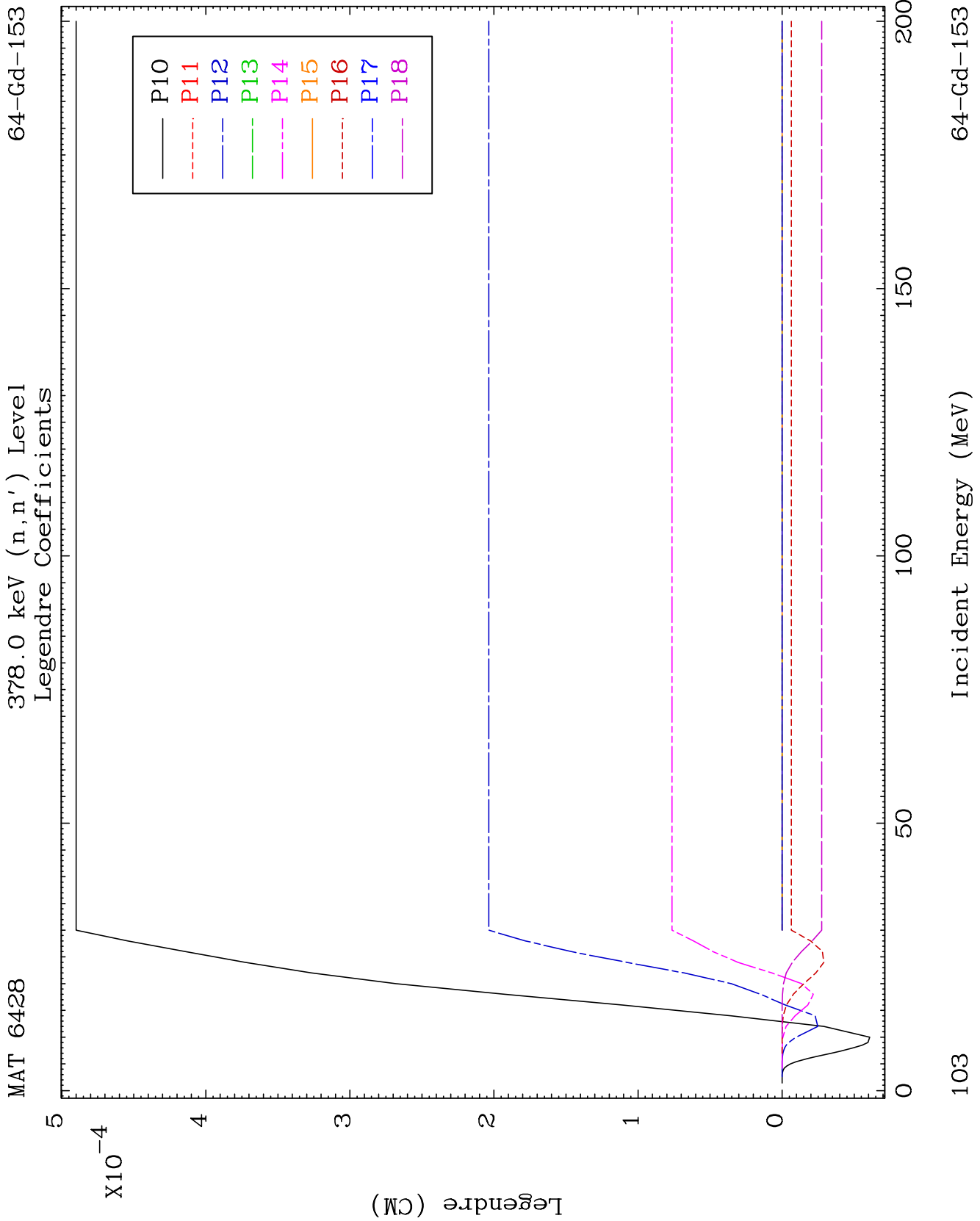
64-Gd-153

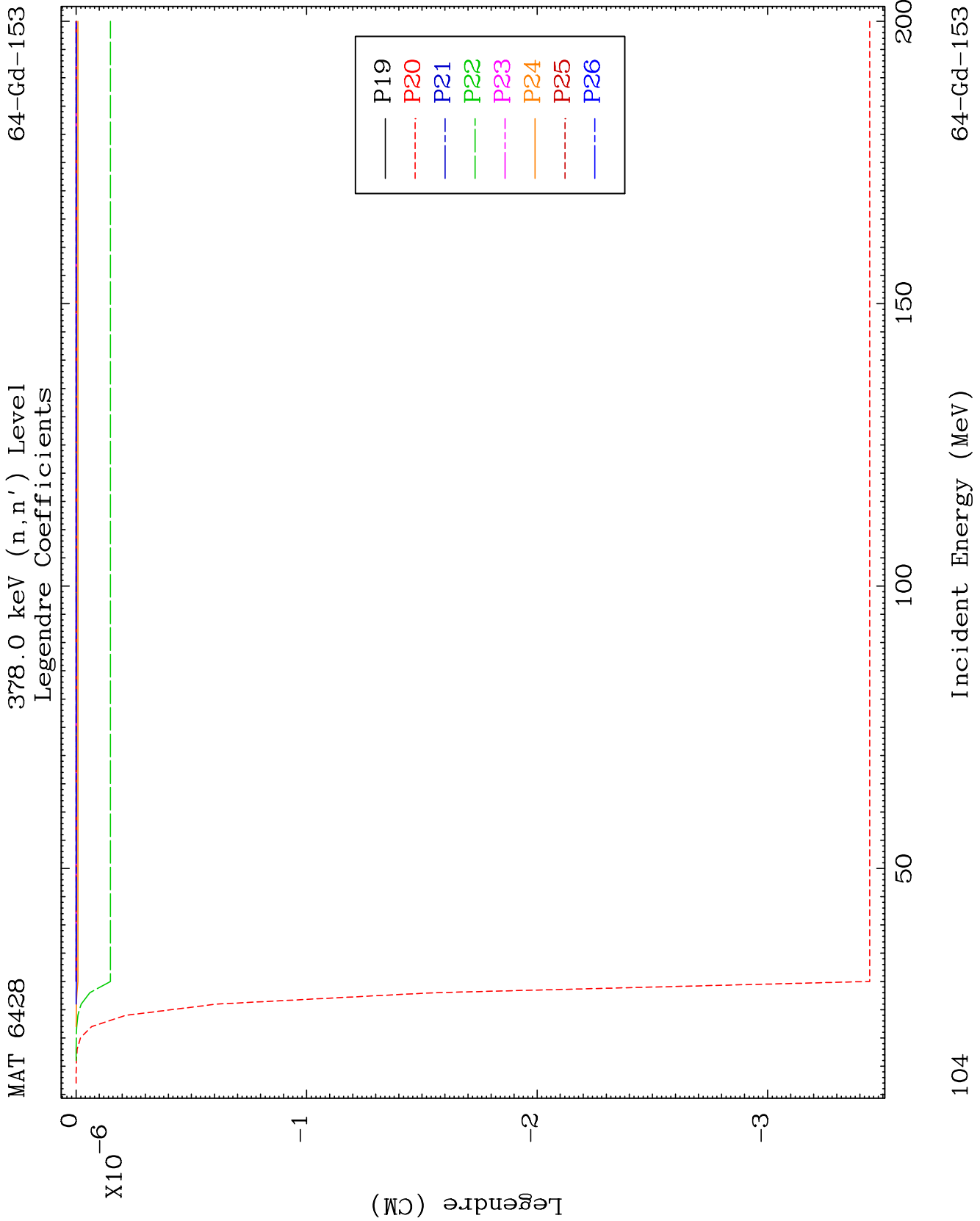


101

Incident Energy (MeV)

64-Gd-153

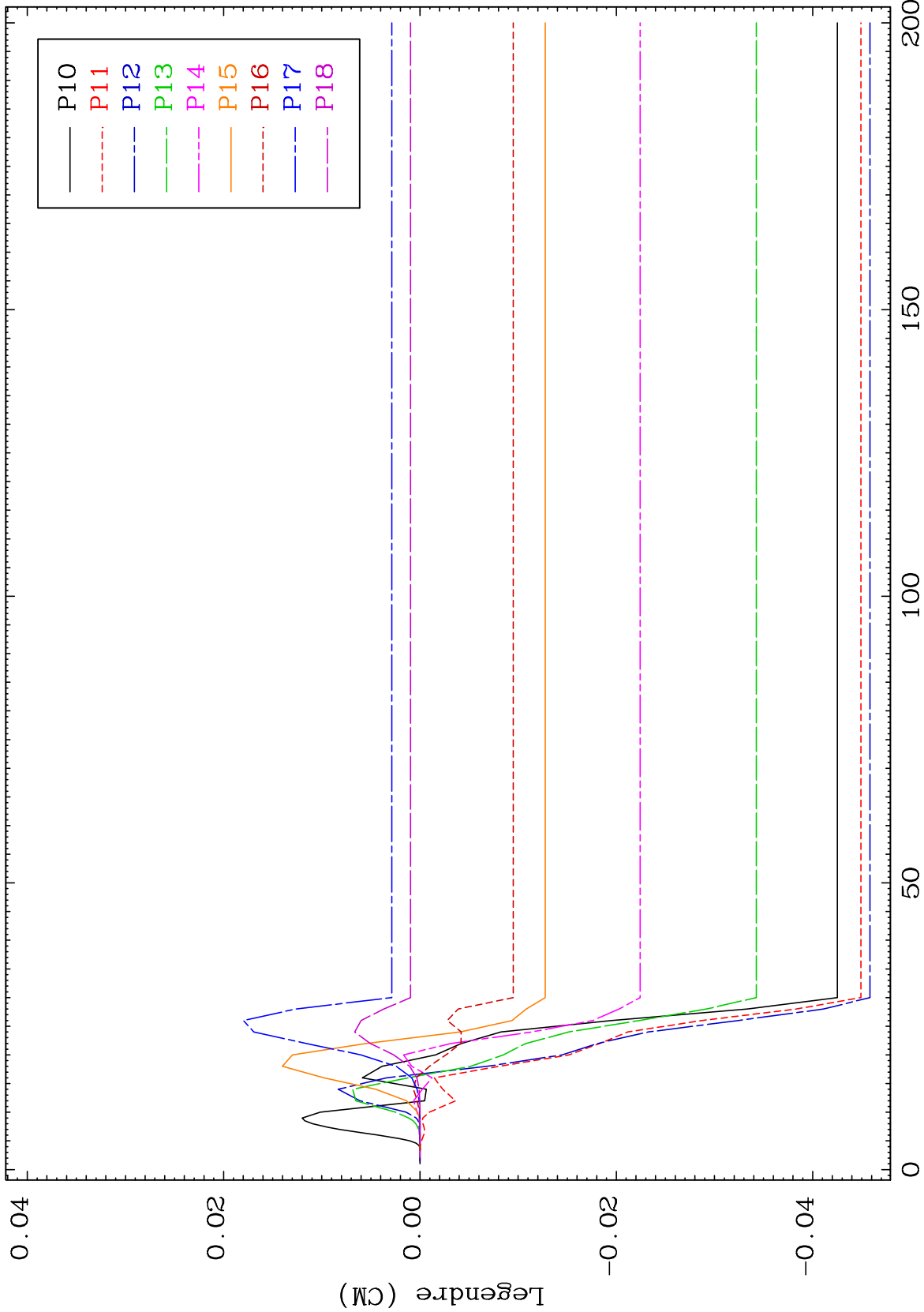




MAT 6428

395.1 keV (n,n') Level
Legendre Coefficients

64-Gd-153



106

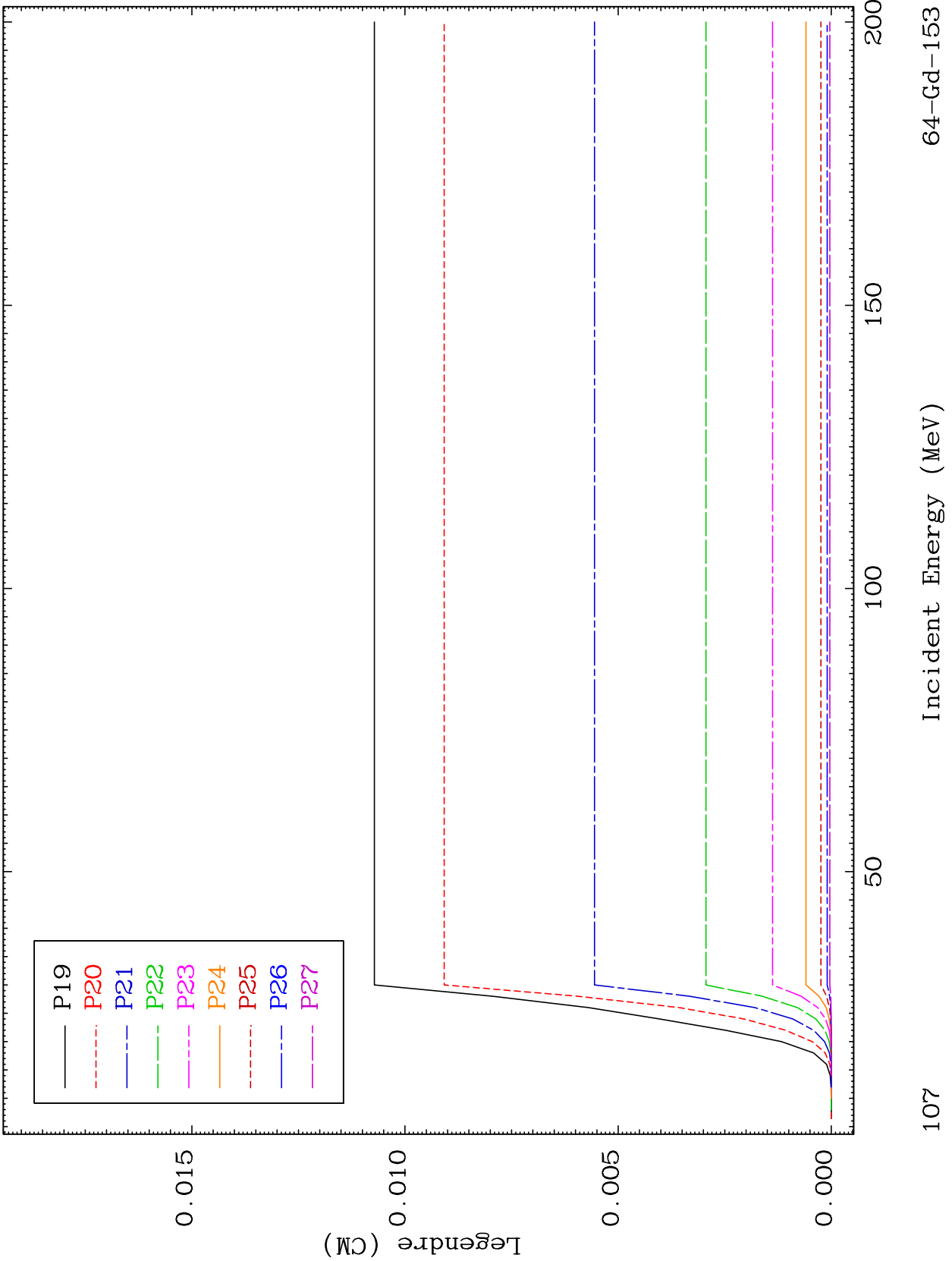
Incident Energy (MeV)

64-Gd-153

MAT 6428

395.1 keV (n,n') Level
Legendre Coefficients

64-Gd-153



107

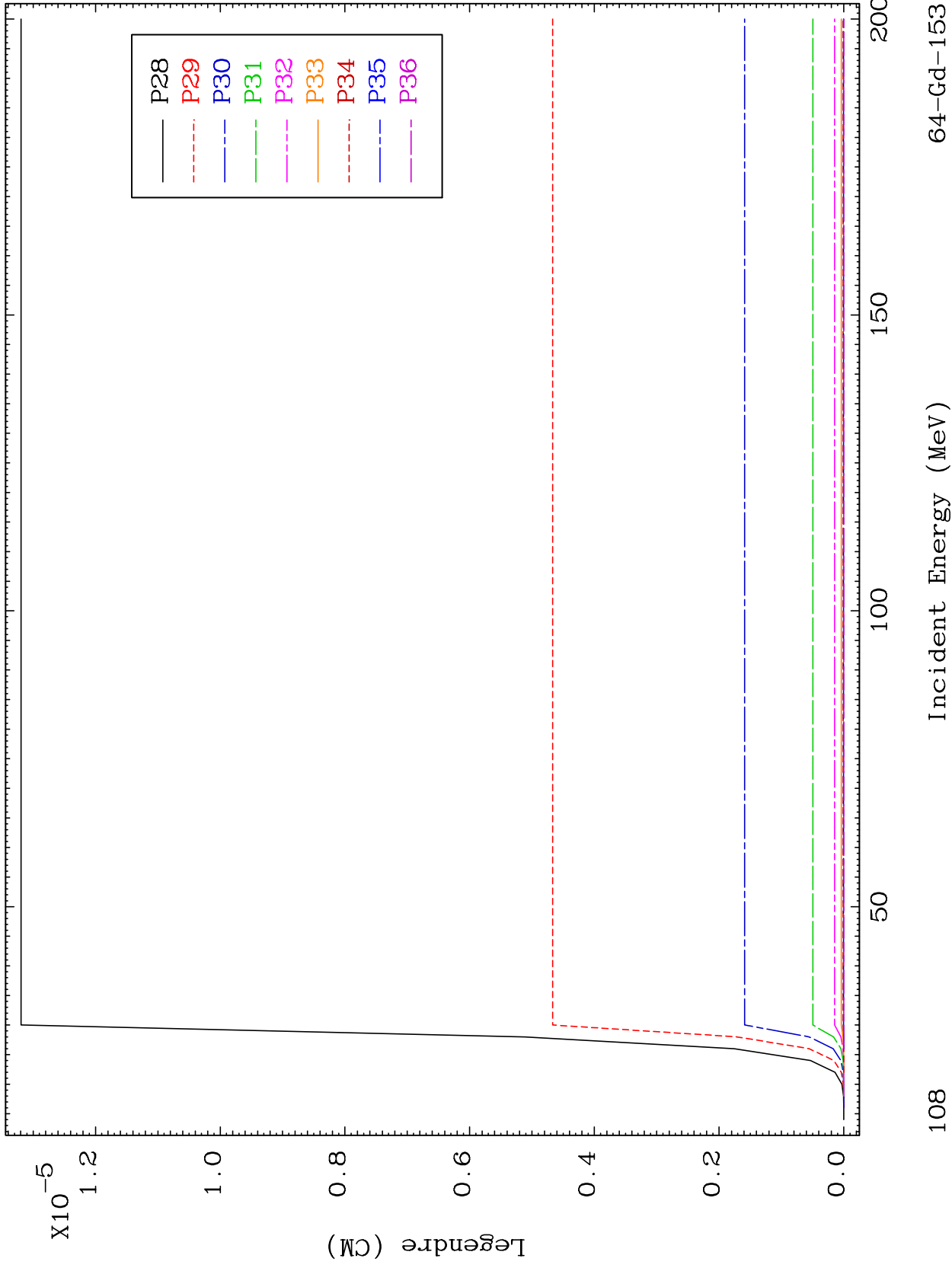
Incident Energy (MeV)

64-Gd-153

MAT 6428

395.1 keV (n,n') Level
Legendre Coefficients

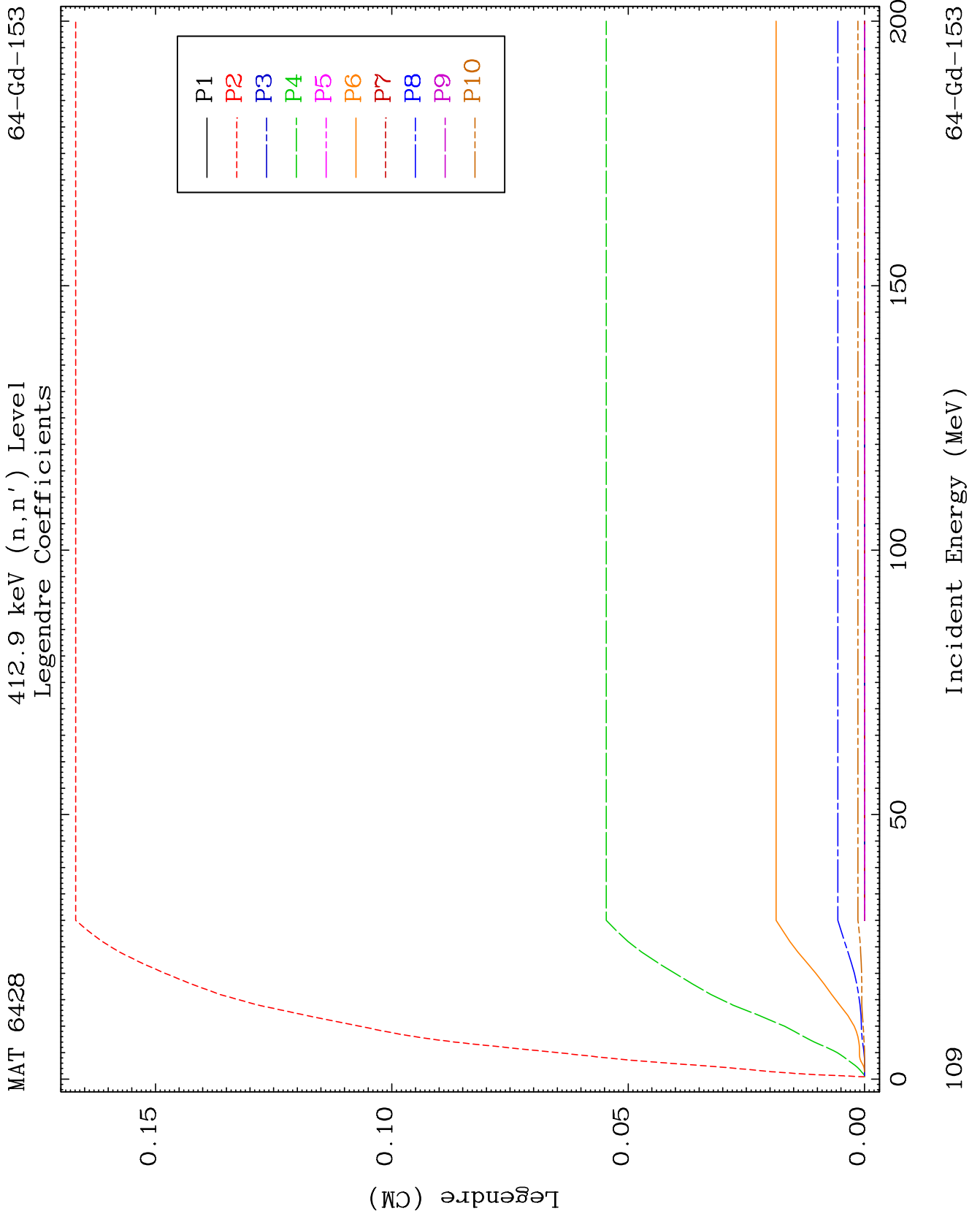
64-Gd-153



108

Incident Energy (MeV)

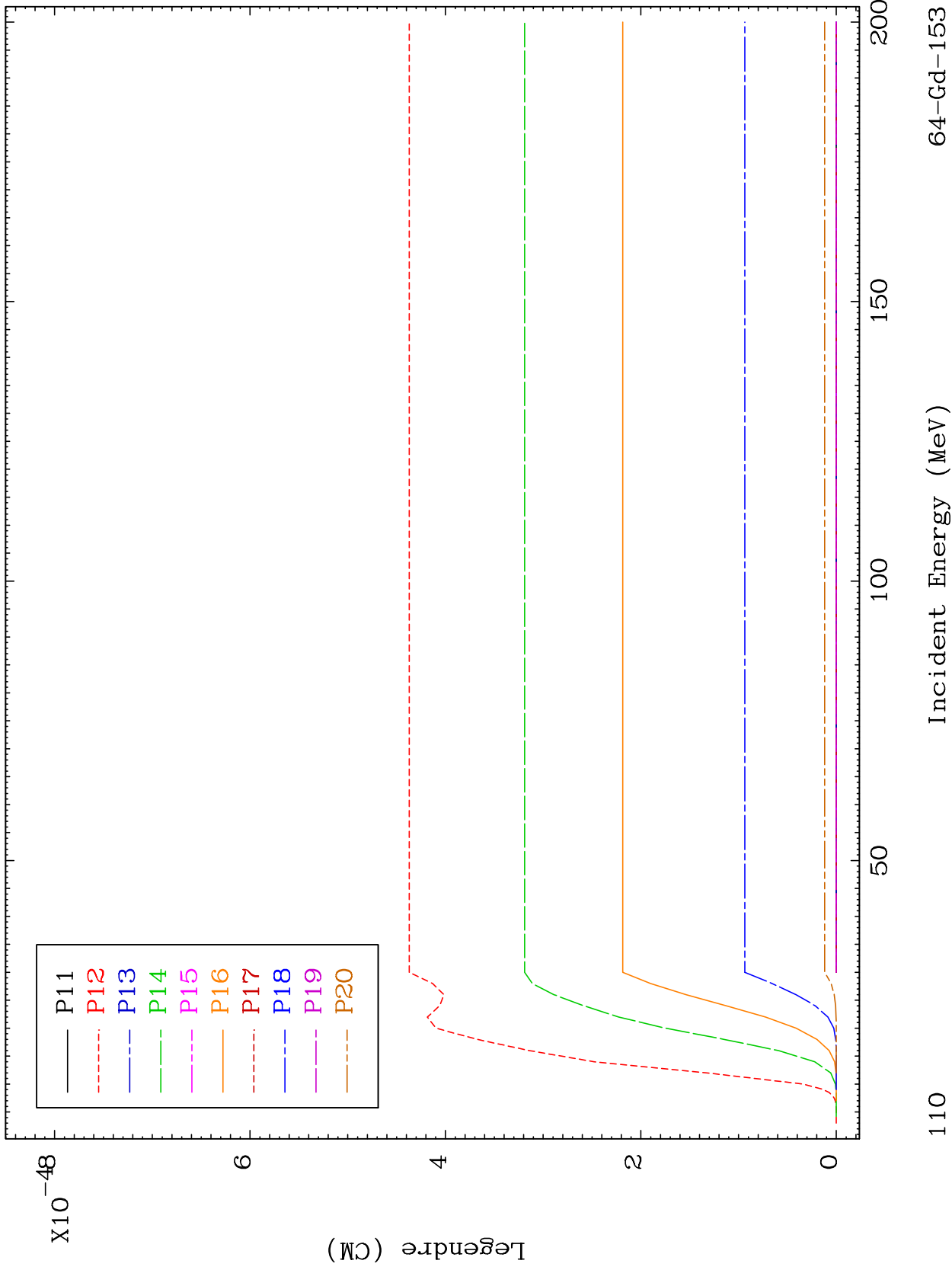
64-Gd-153



MAT 6428

412.9 keV (n,n') Level
Legendre Coefficients

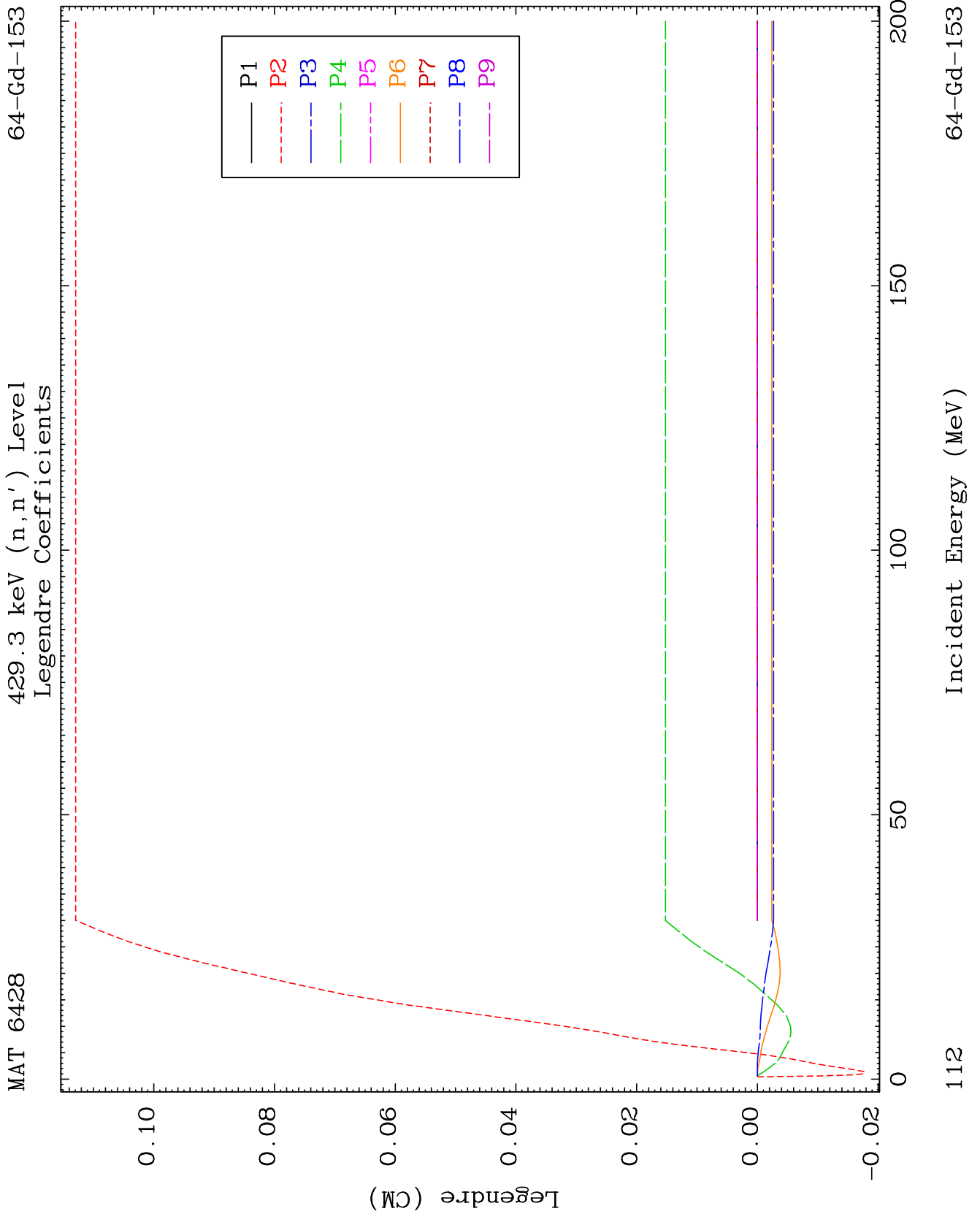
64-Gd-153

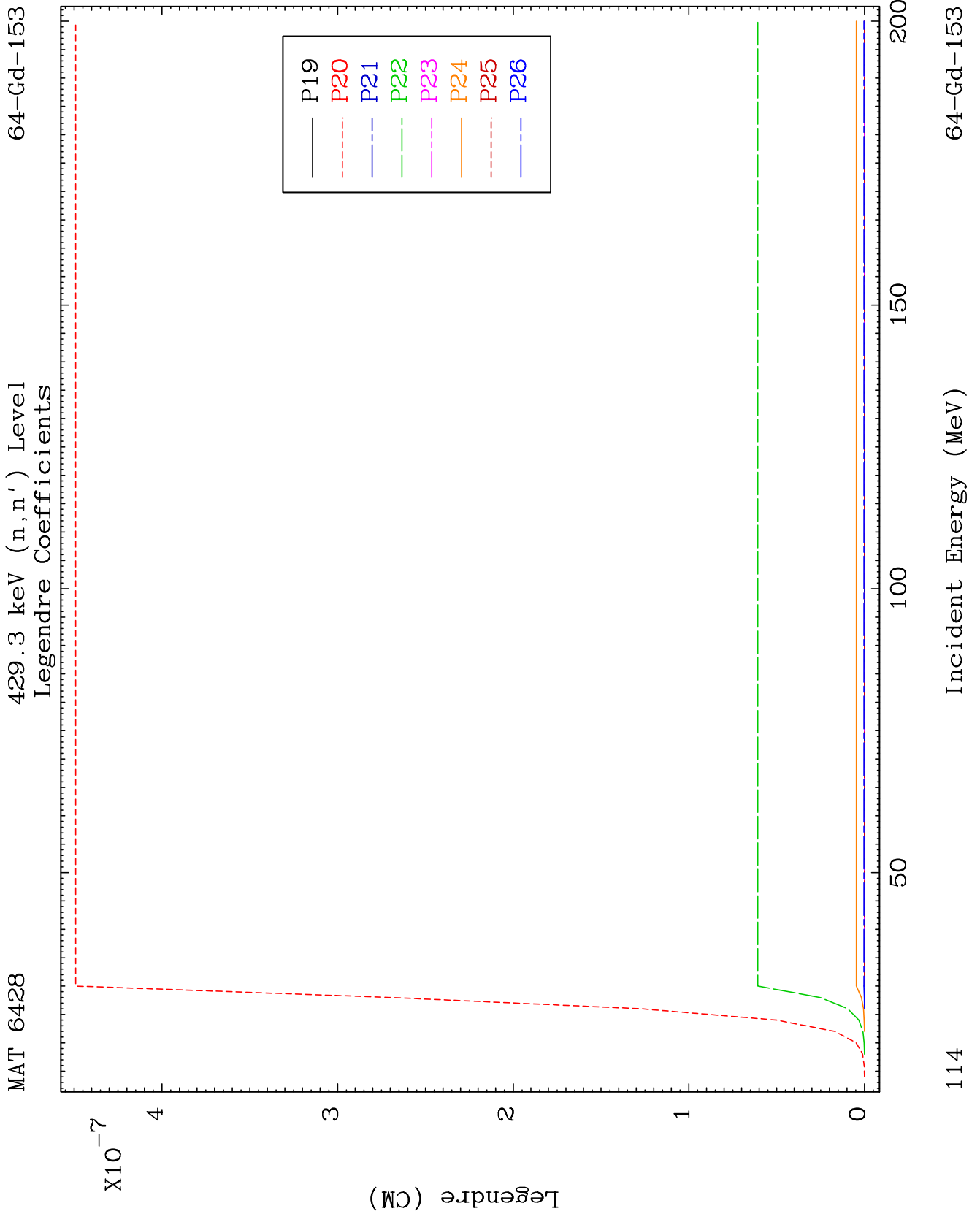


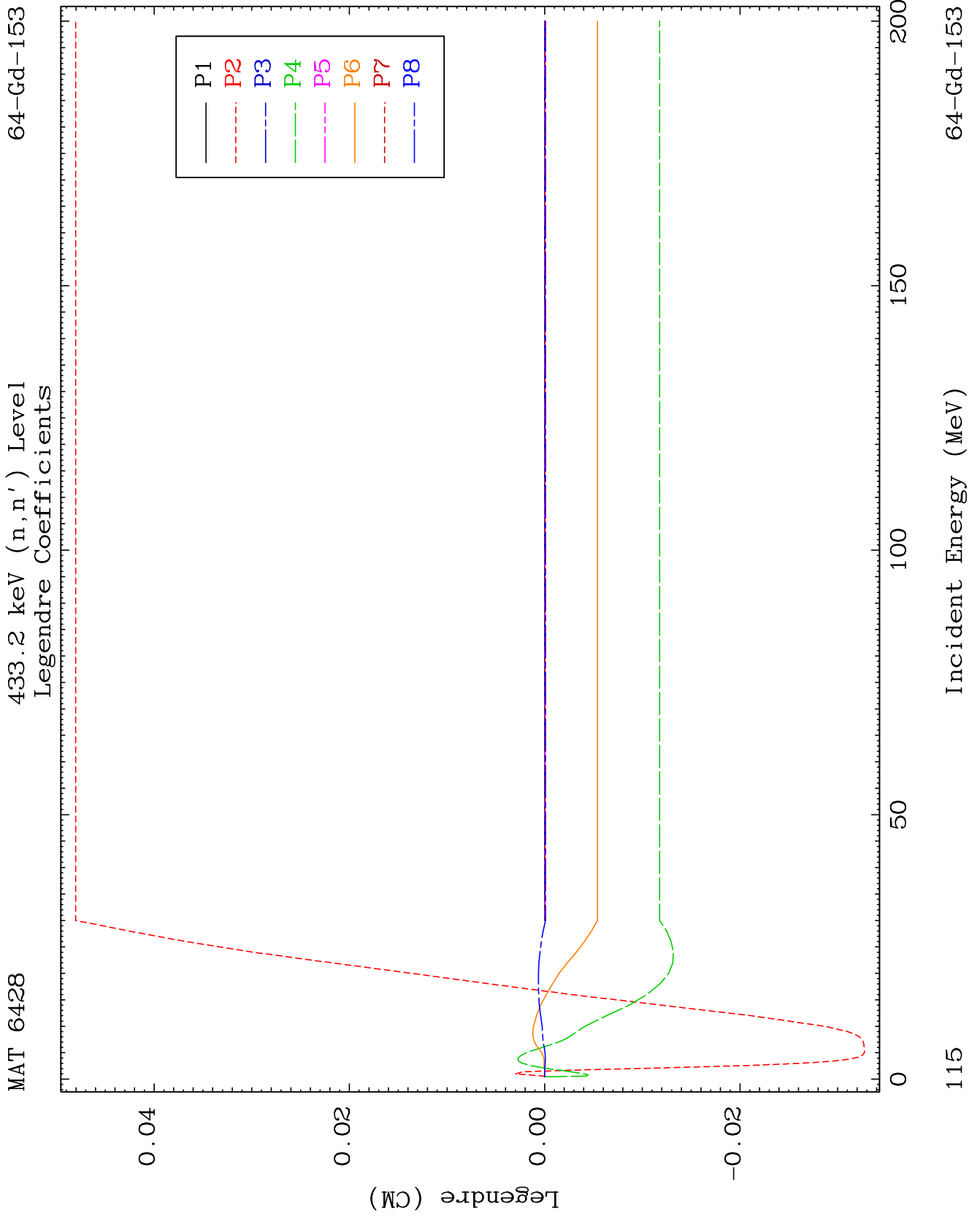
64-Gd-153

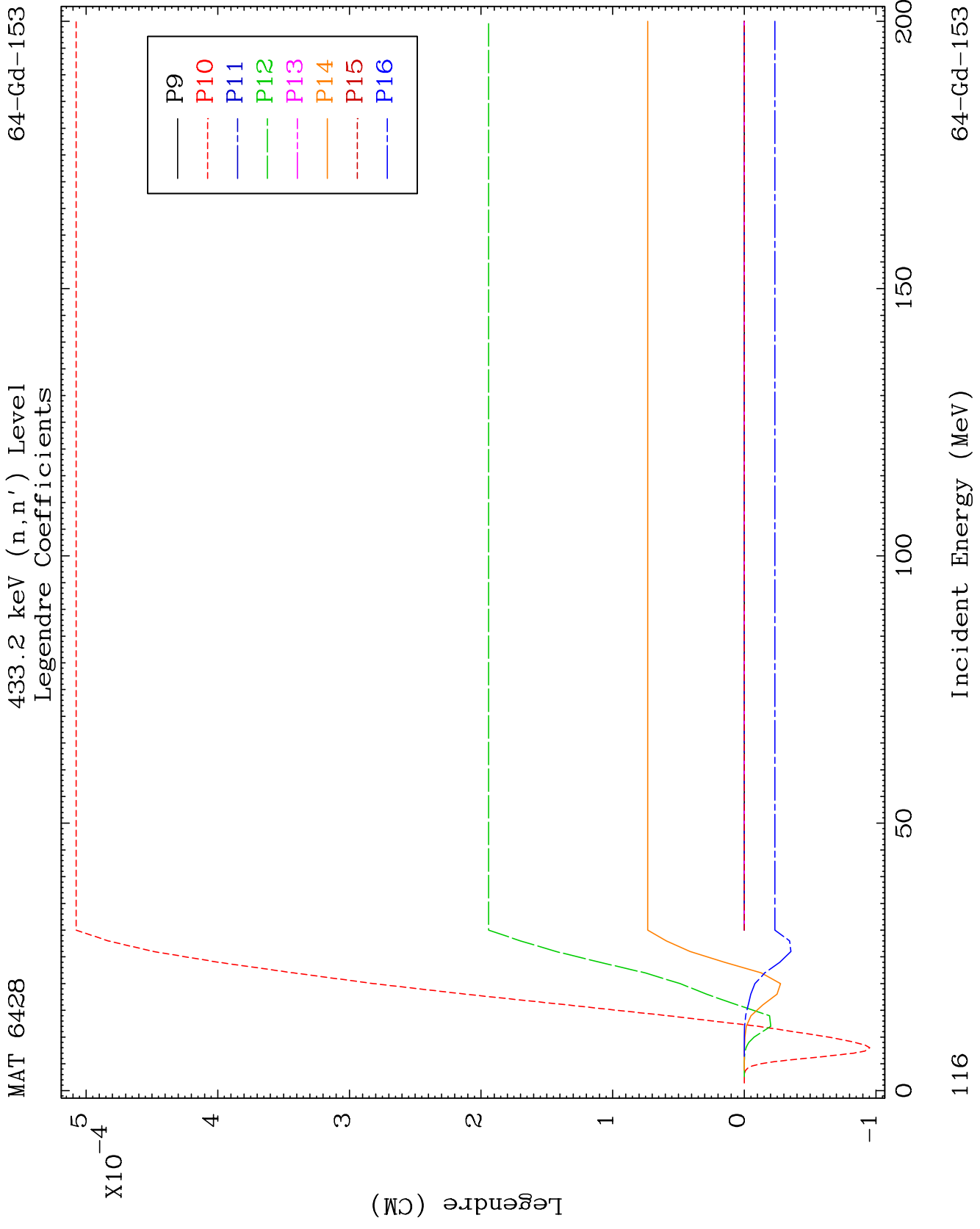
Incident Energy (MeV)

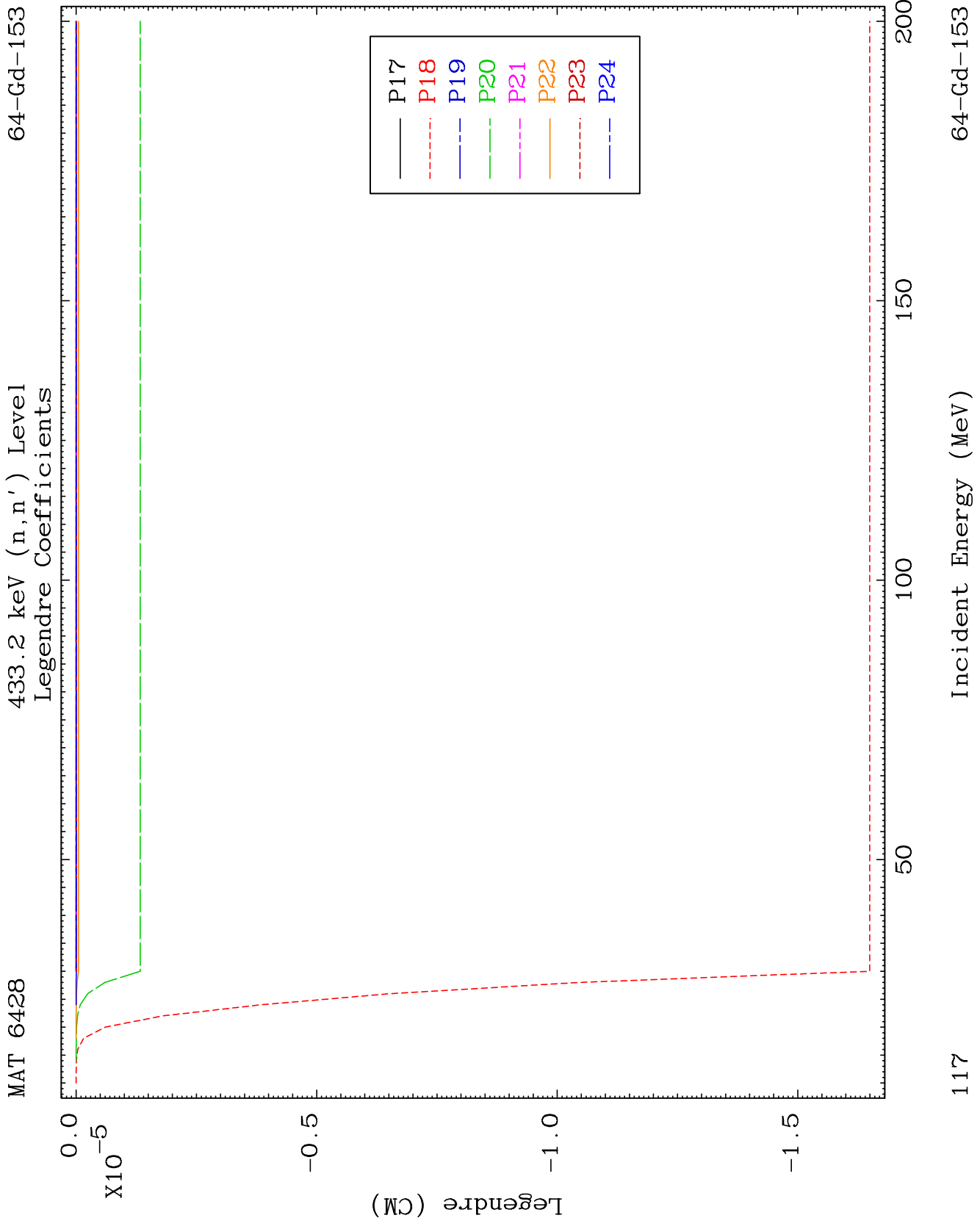
110









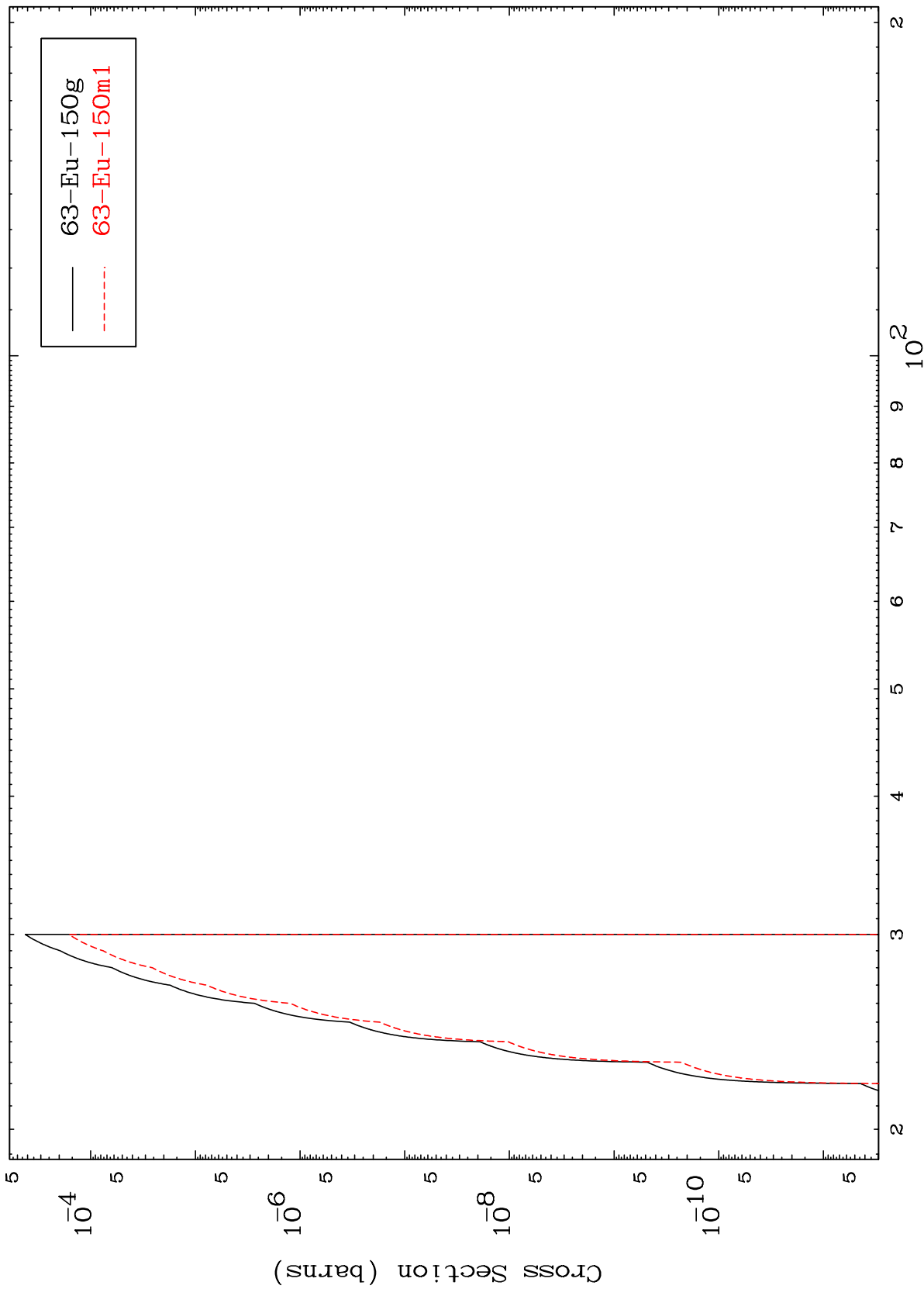


MAT 6428

(n,2n) d

64-Gd-153

Radionuclide Production Cross Section



118

Incident Energy (MeV)

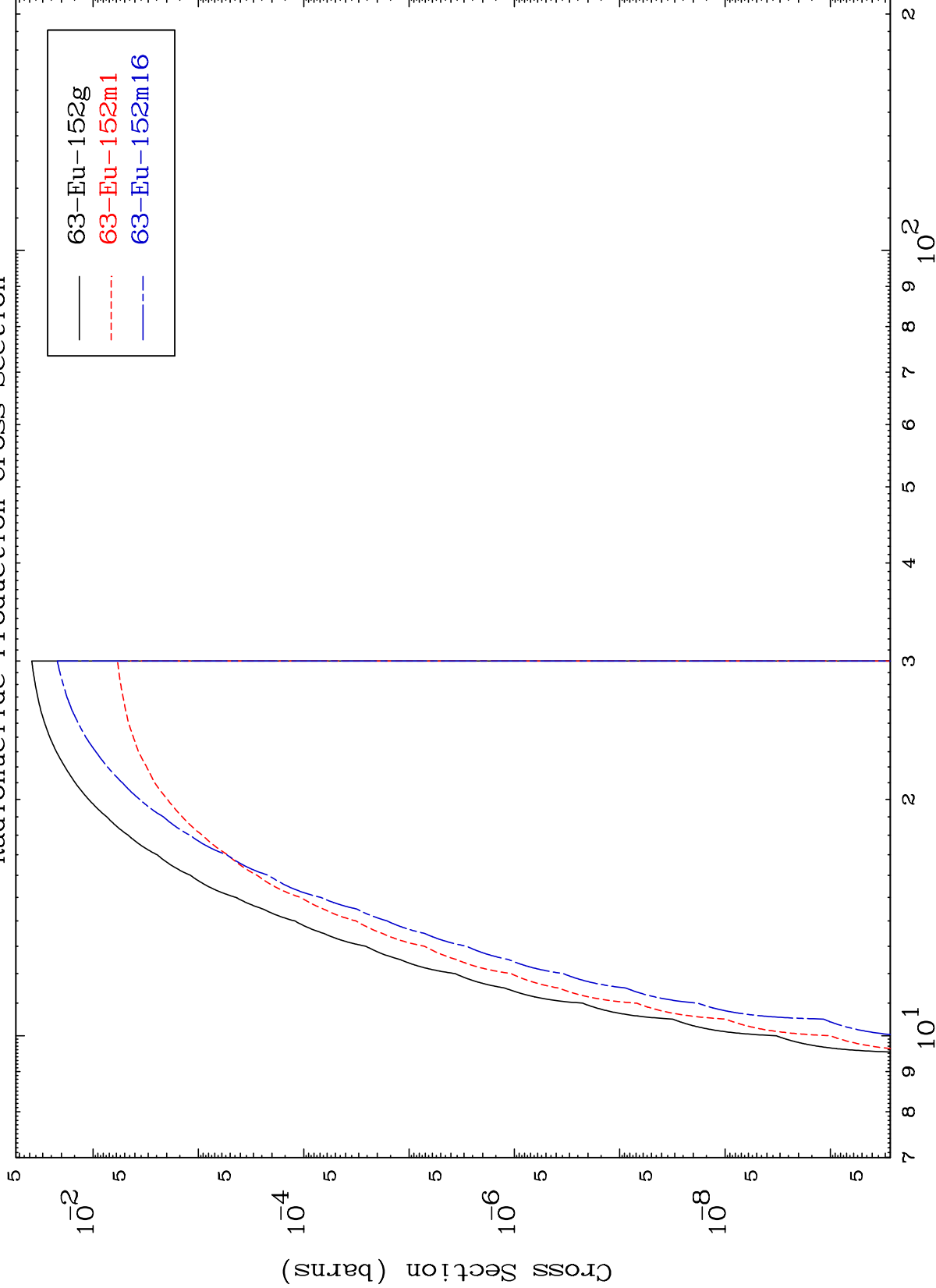
64-Gd-153

MAT 6428

(n,n') p

64-Gd-153

Radionuclide Production Cross Section



119

Incident Energy (MeV)

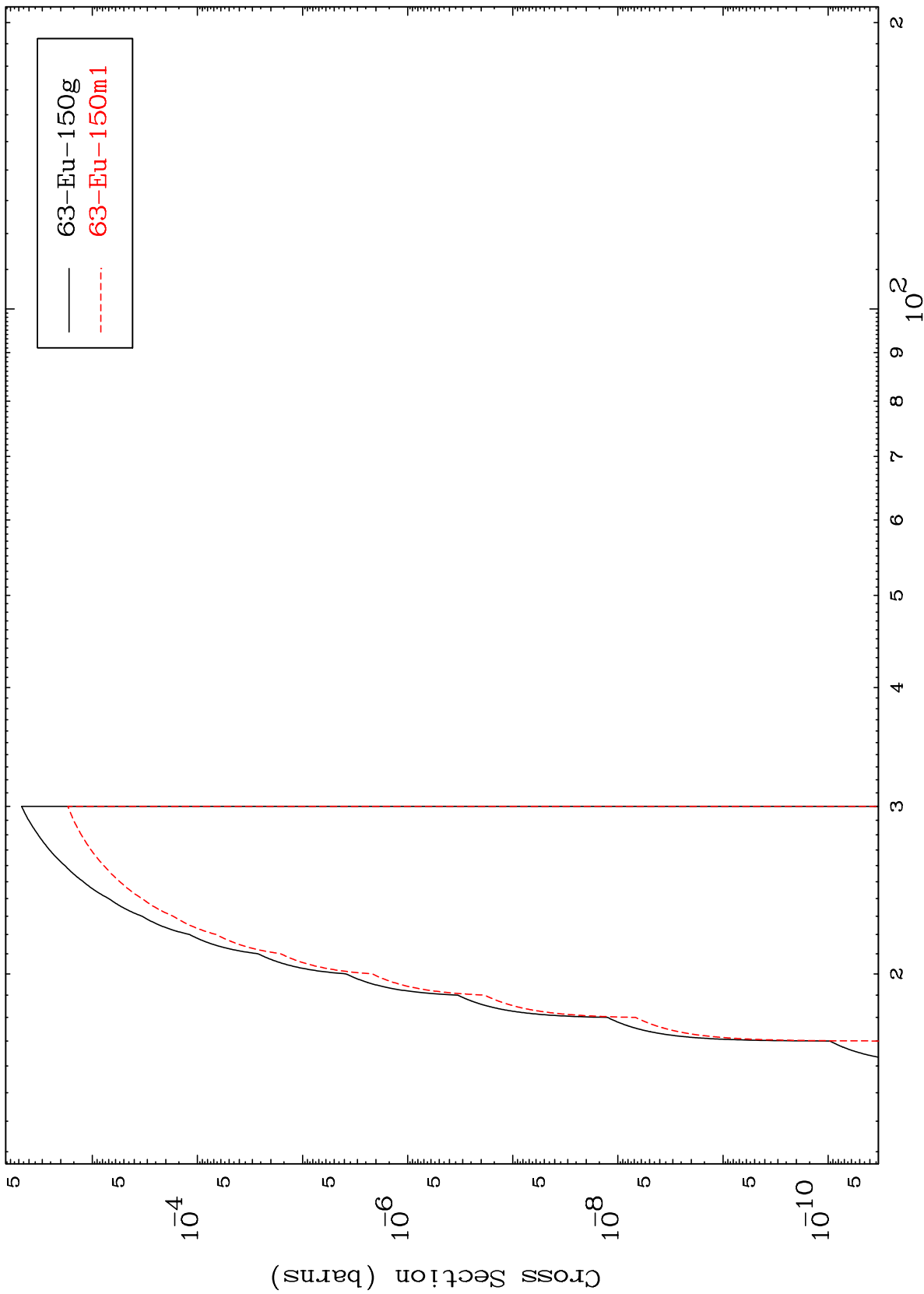
64-Gd-153

MAT 6428

(n,n') t

64-Gd-153

Radionuclide Production Cross Section



120

Incident Energy (MeV)

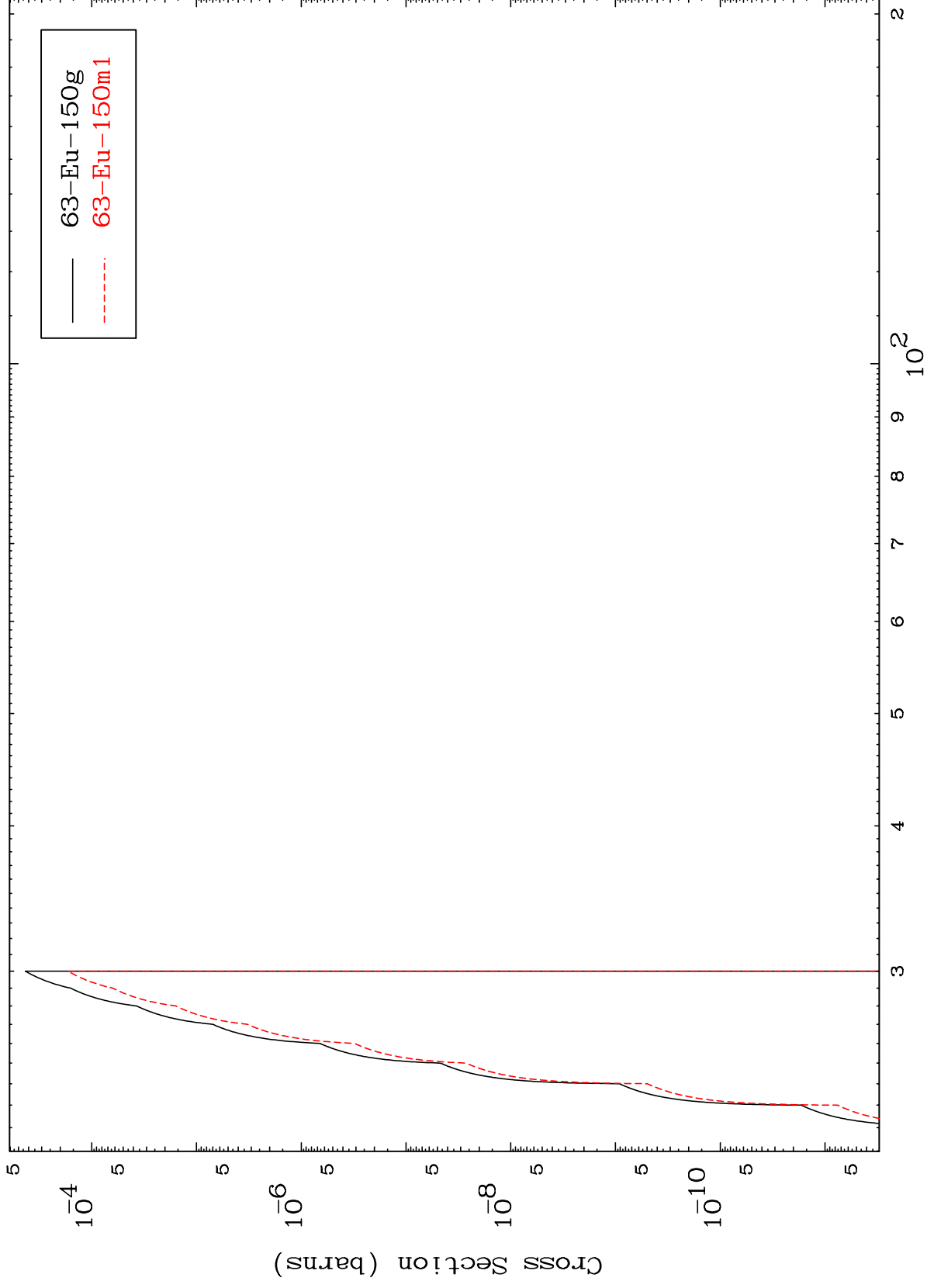
64-Gd-153

MAT 6428

(n,3n) p

64-Gd-153

Radionuclide Production Cross Section



121

Incident Energy (MeV)

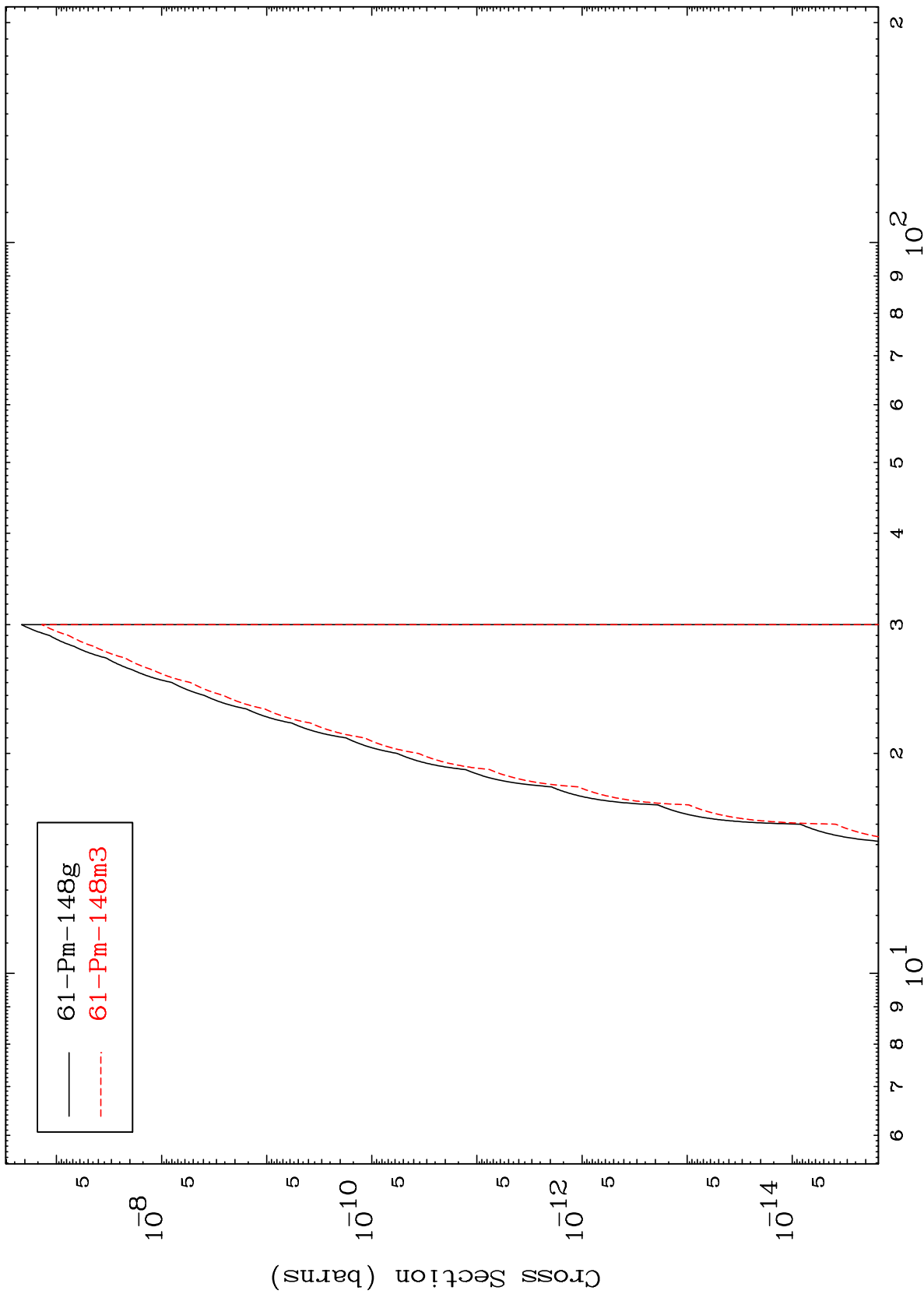
64-Gd-153

MAT 6428

(n,n') p α

64-Gd-153

Radionuclide Production Cross Section



61-Pm-148g
61-Pm-148m3

122

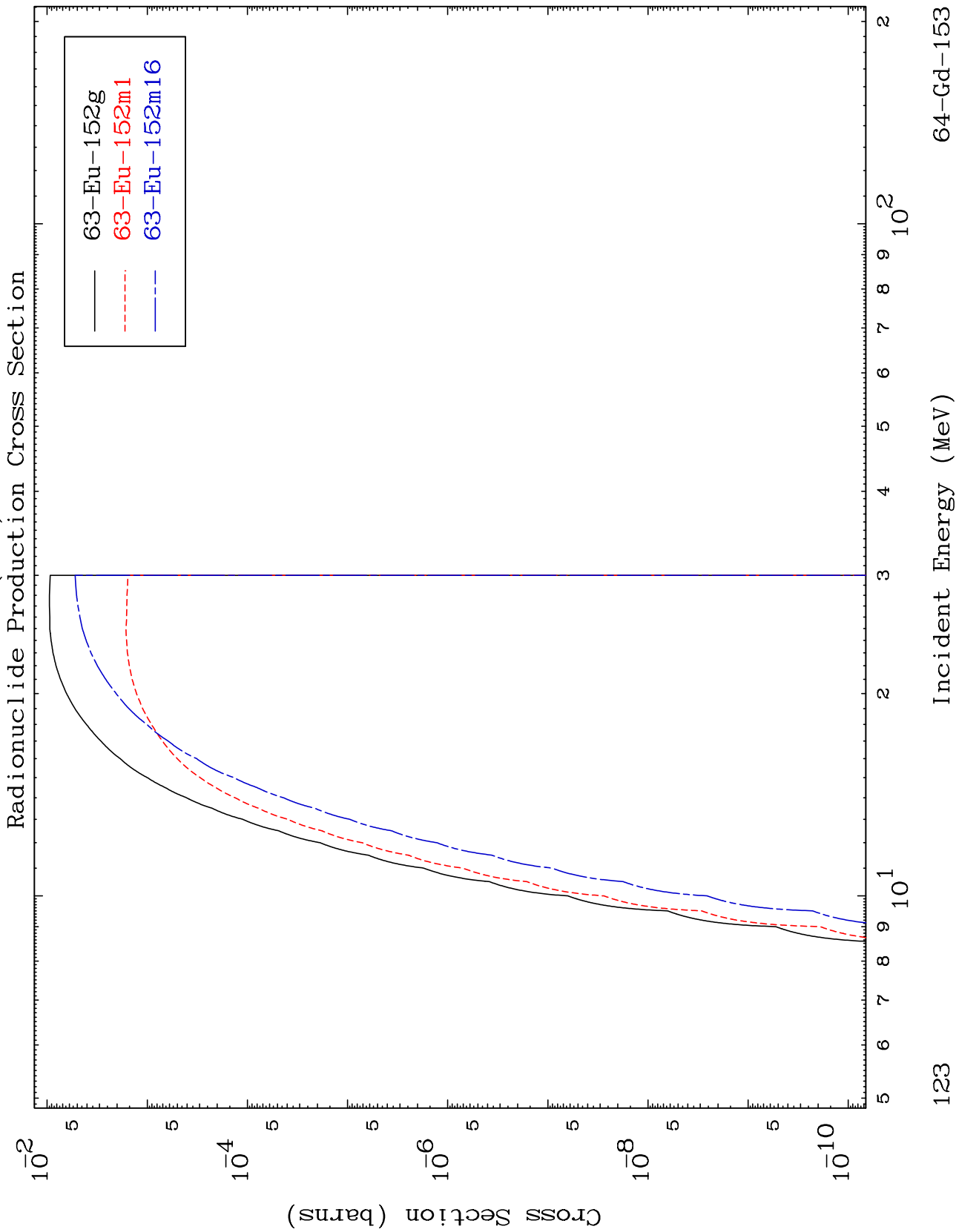
Incident Energy (MeV)

64-Gd-153

MAT 6428

(n,d)

64-Gd-153



123

Incident Energy (MeV)

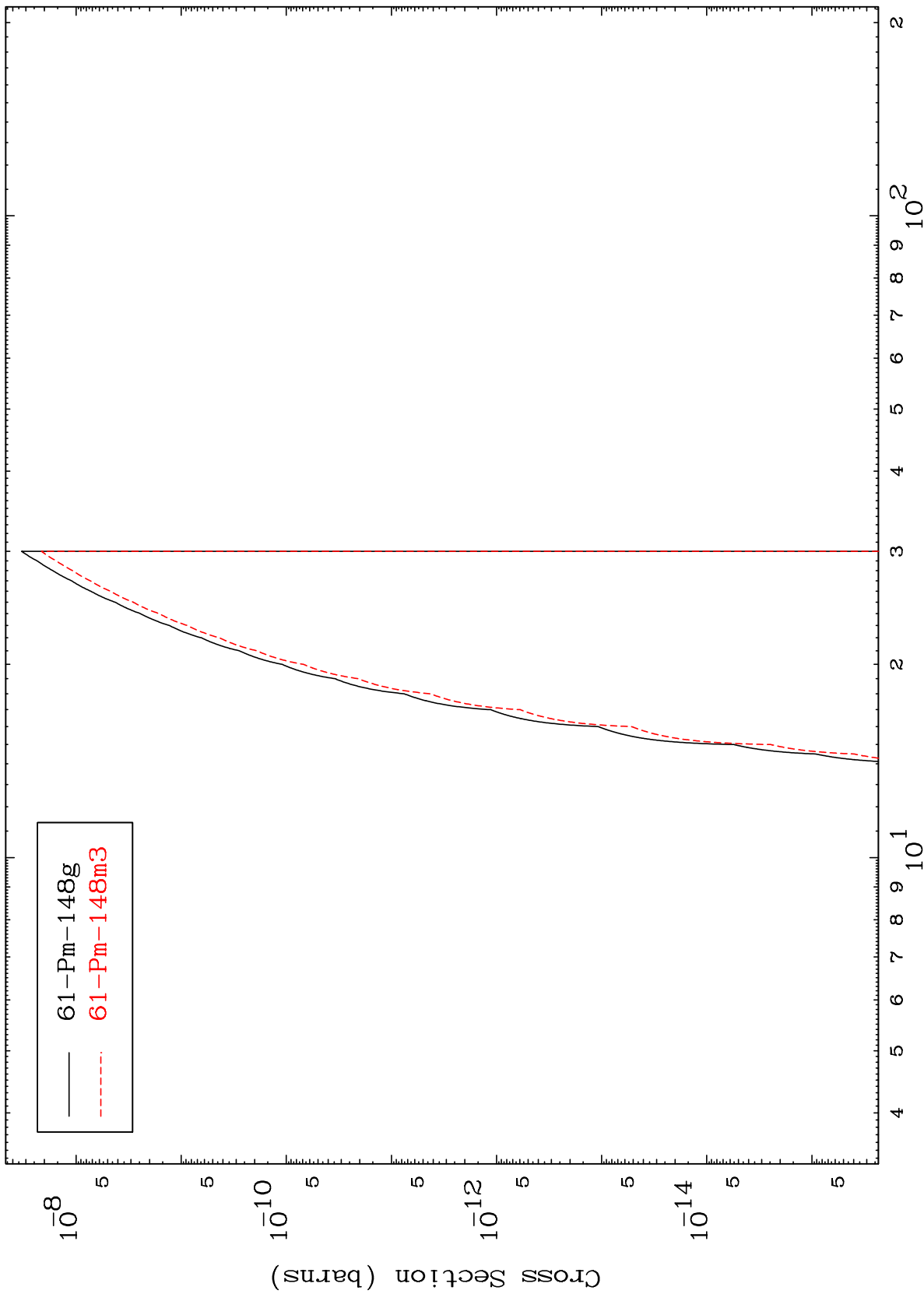
64-Gd-153

MAT 6428

(n,d) α

64-Gd-153

Radionuclide Production Cross Section



124

Incident Energy (MeV)

64-Gd-153