

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
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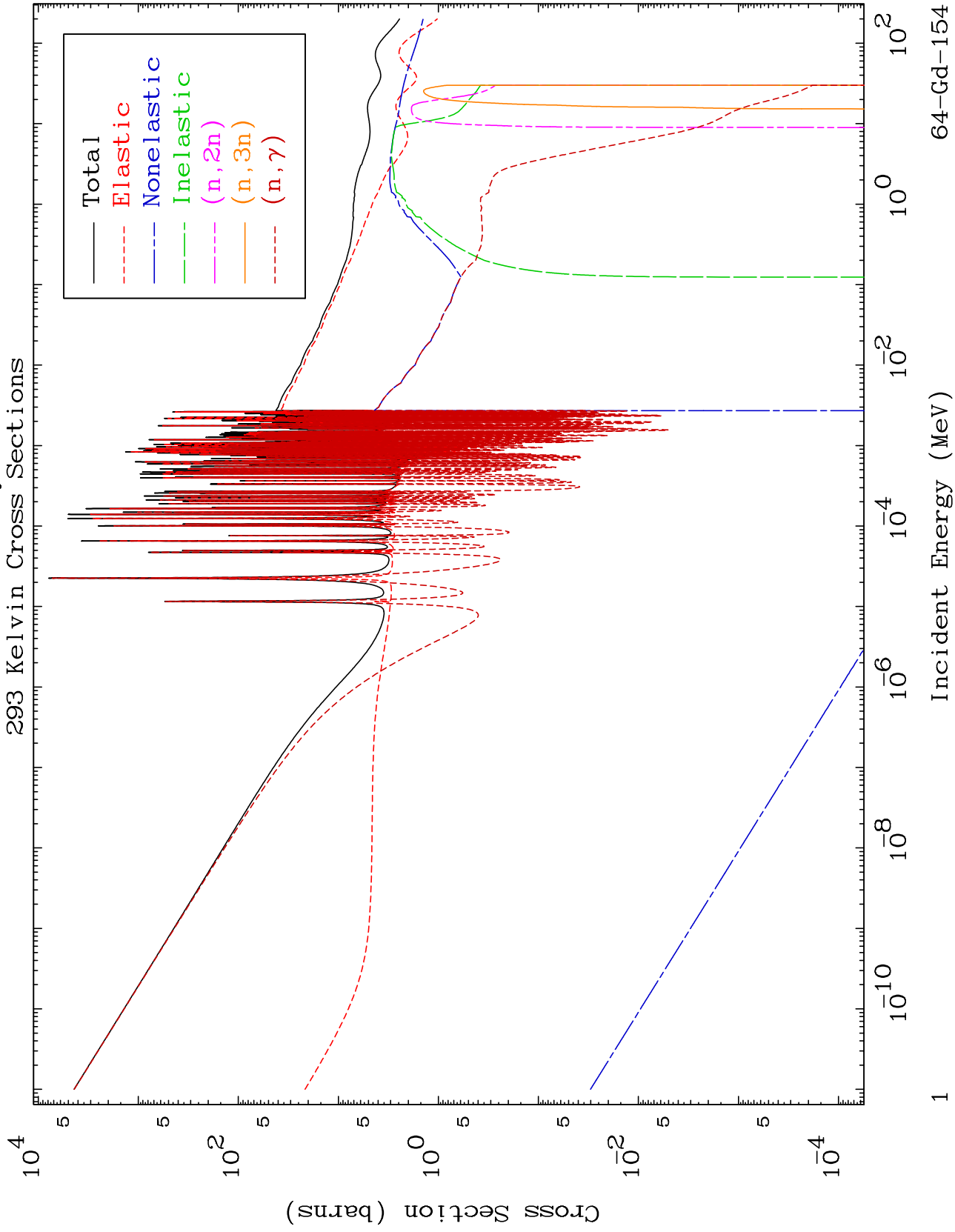
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6431

Neutron Major
293 Kelvin Cross Sections

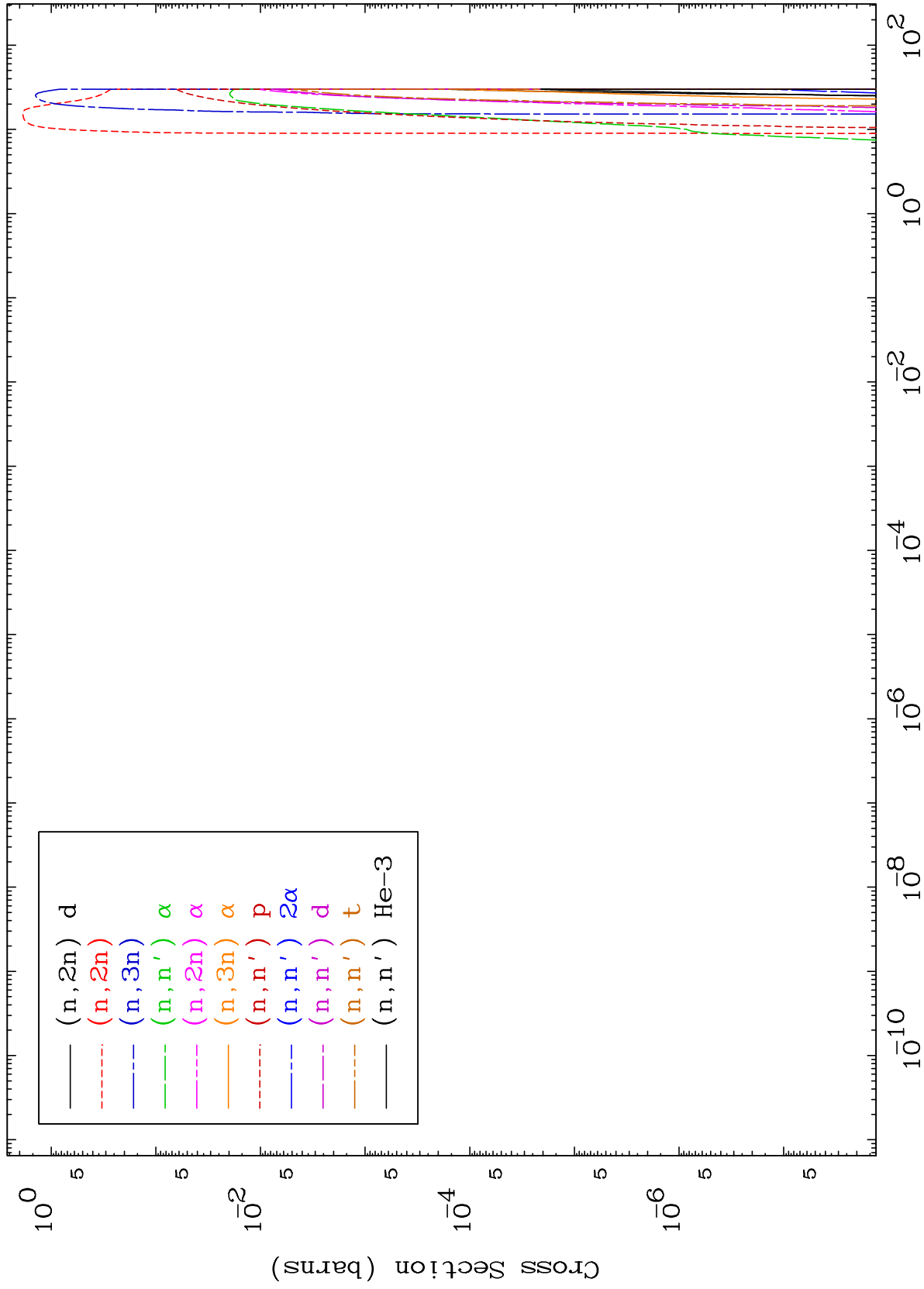
64-Gd-154



MAT 6431

Neutron Absorption
293 Kelvin Cross Sections

64-Gd-154



2

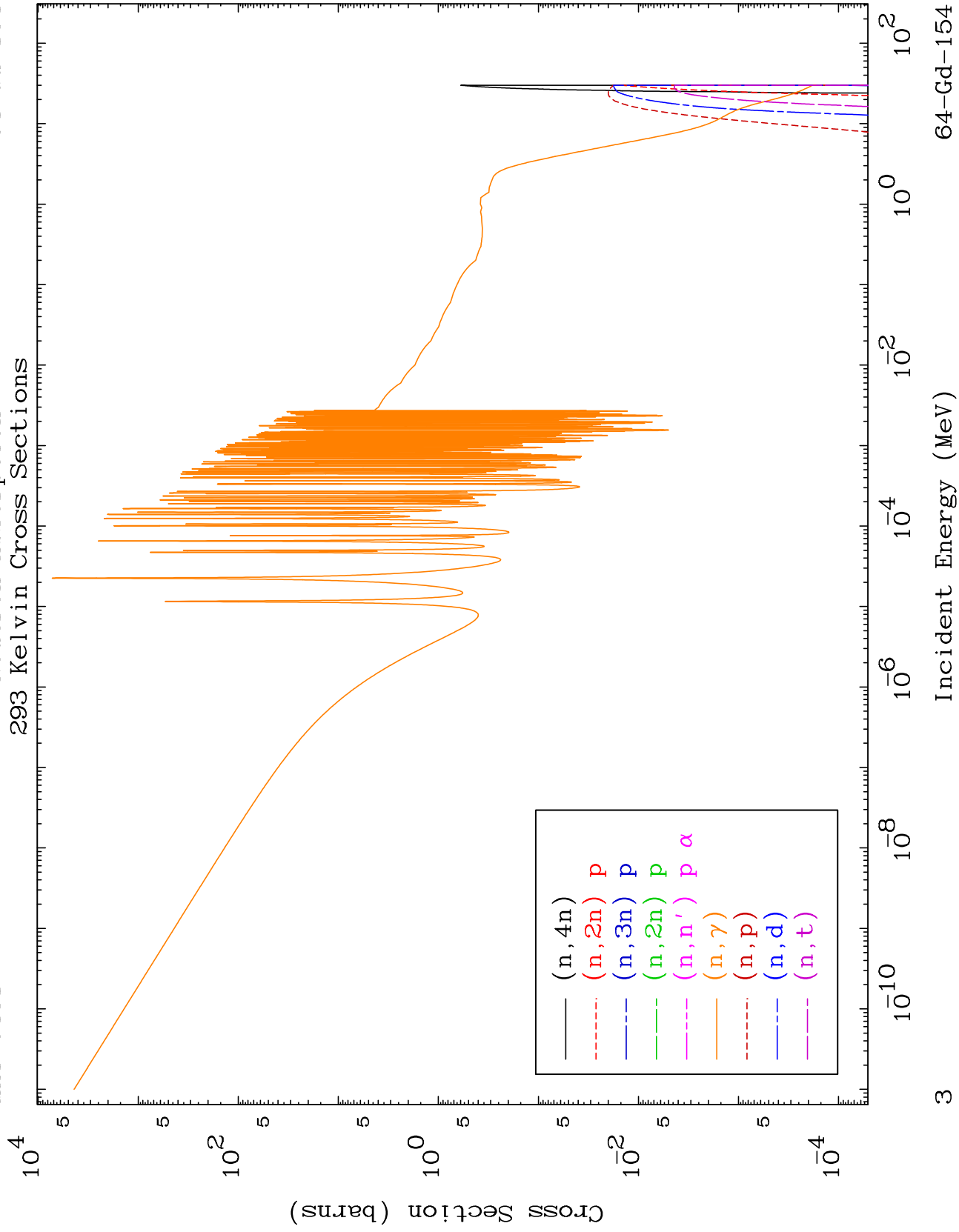
Incident Energy (MeV)

64-Gd-154

MAT 6431

Neutron Absorption
293 Kelvin Cross Sections

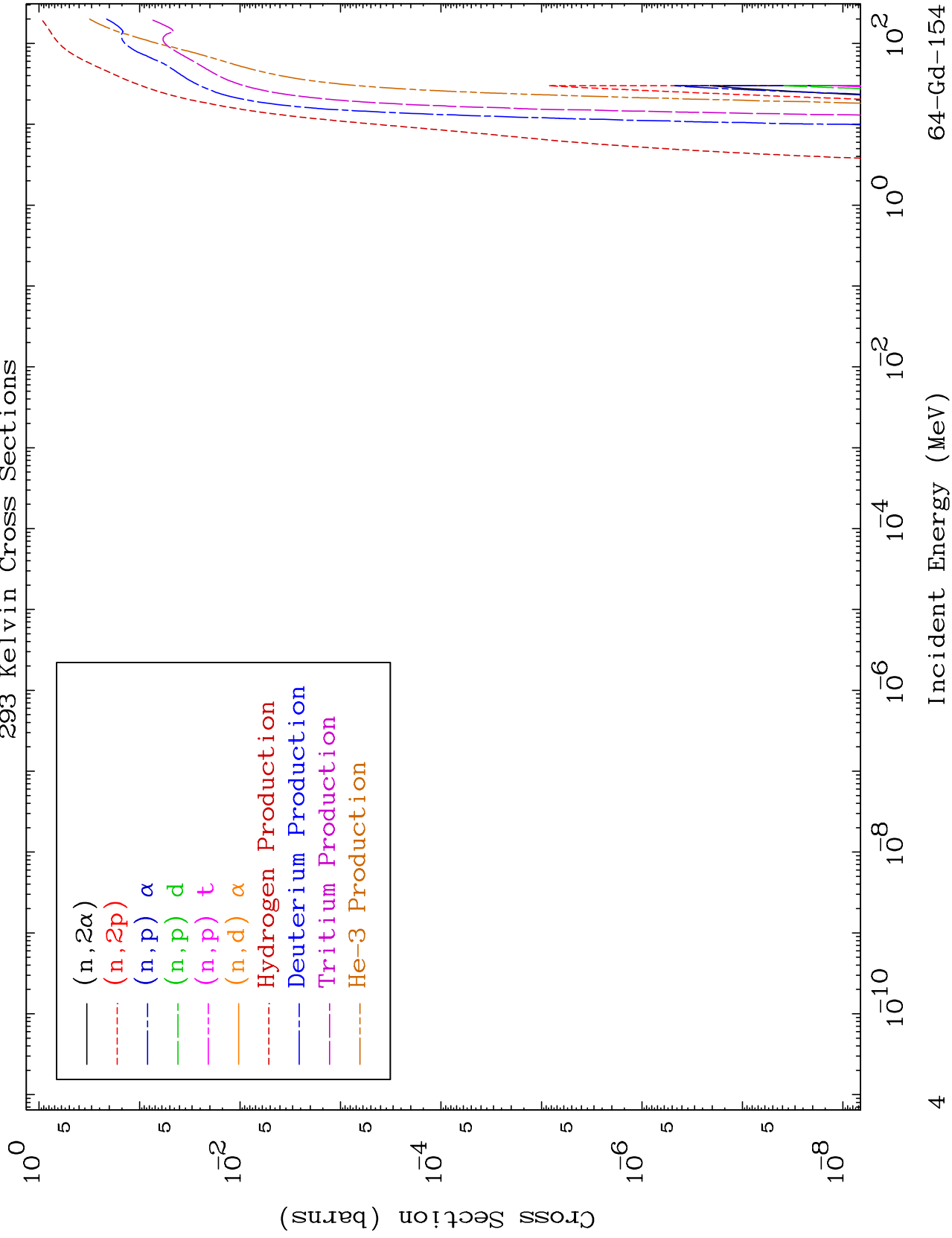
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MAT 6431

Neutron Absorption
293 Kelvin Cross Sections

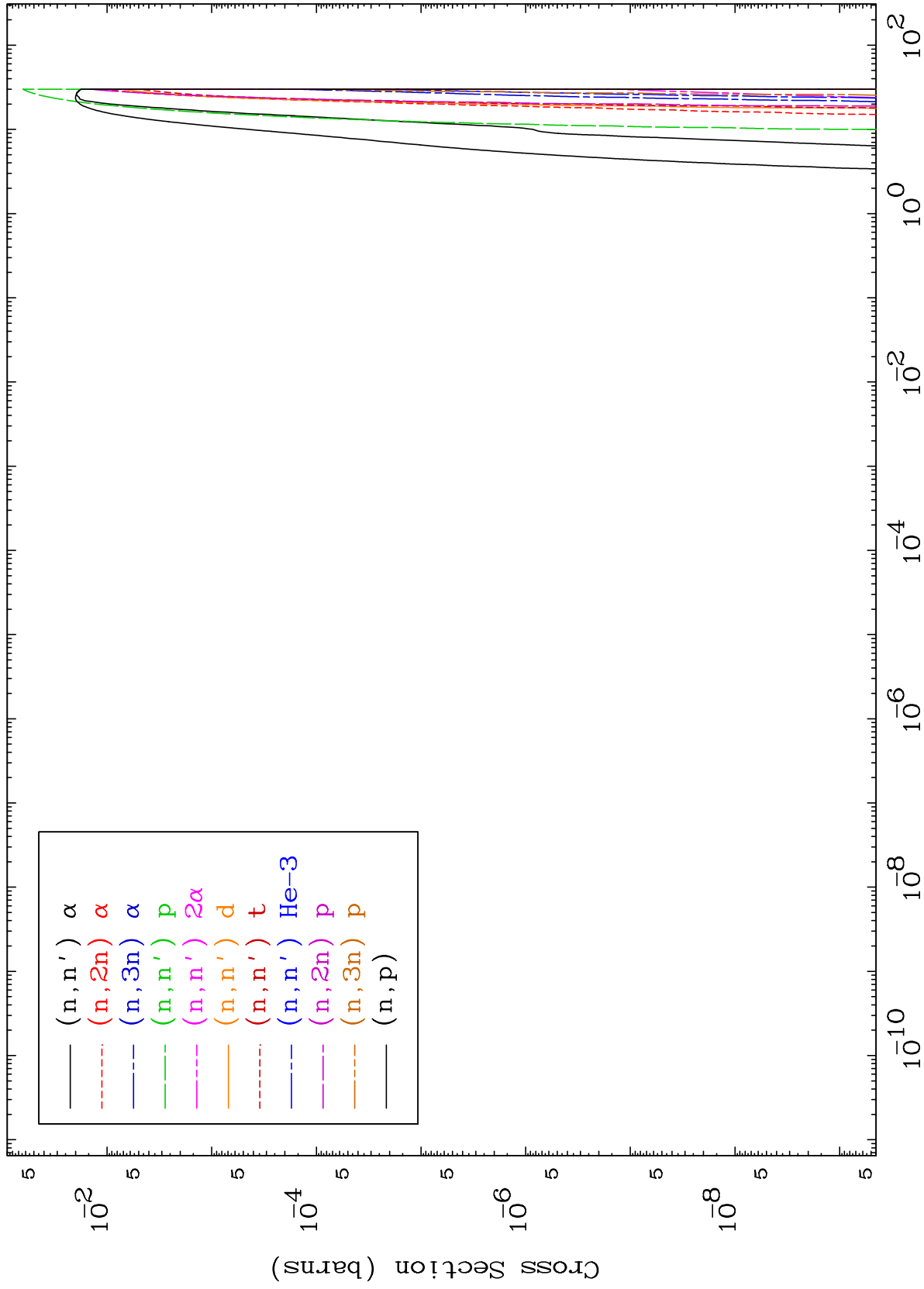
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MAT 6431

293 Charged Particle
Kelvin Cross Sections

64-Gd-154



5

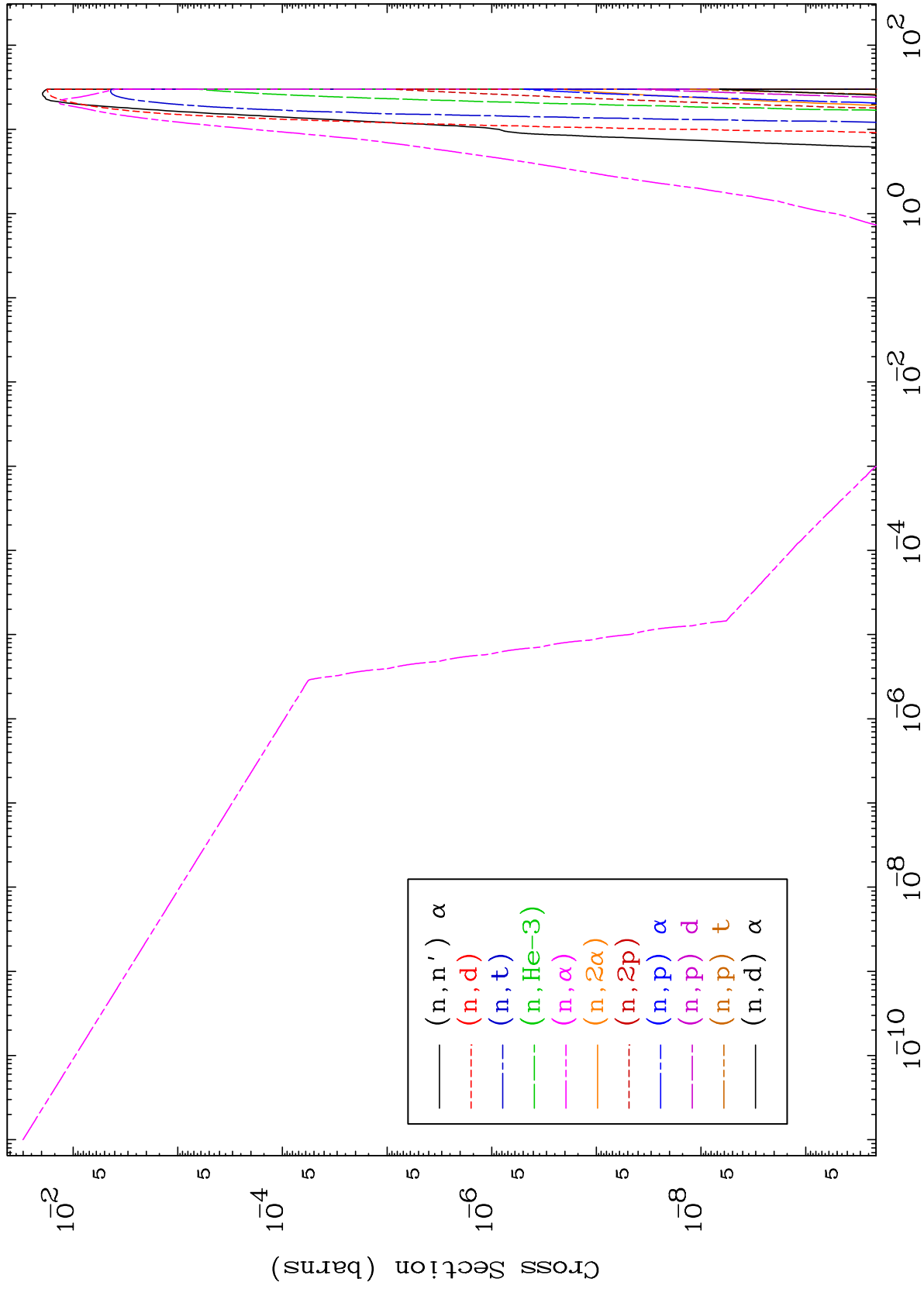
Incident Energy (MeV)

64-Gd-154

MAT 6431

293 Charged Particle
Kelvin Cross Sections

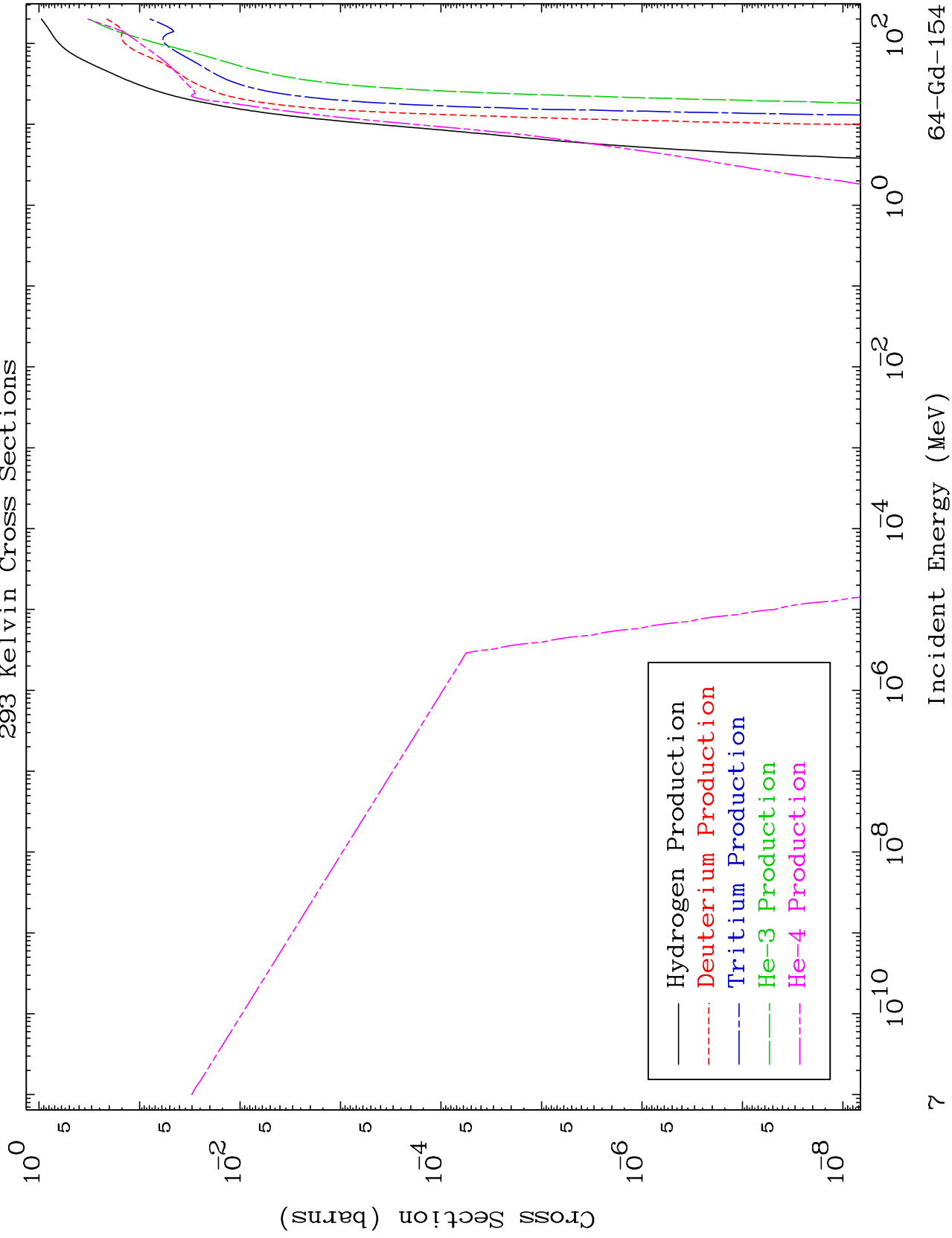
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MAT 6431

Particle Production
293 Kelvin Cross Sections

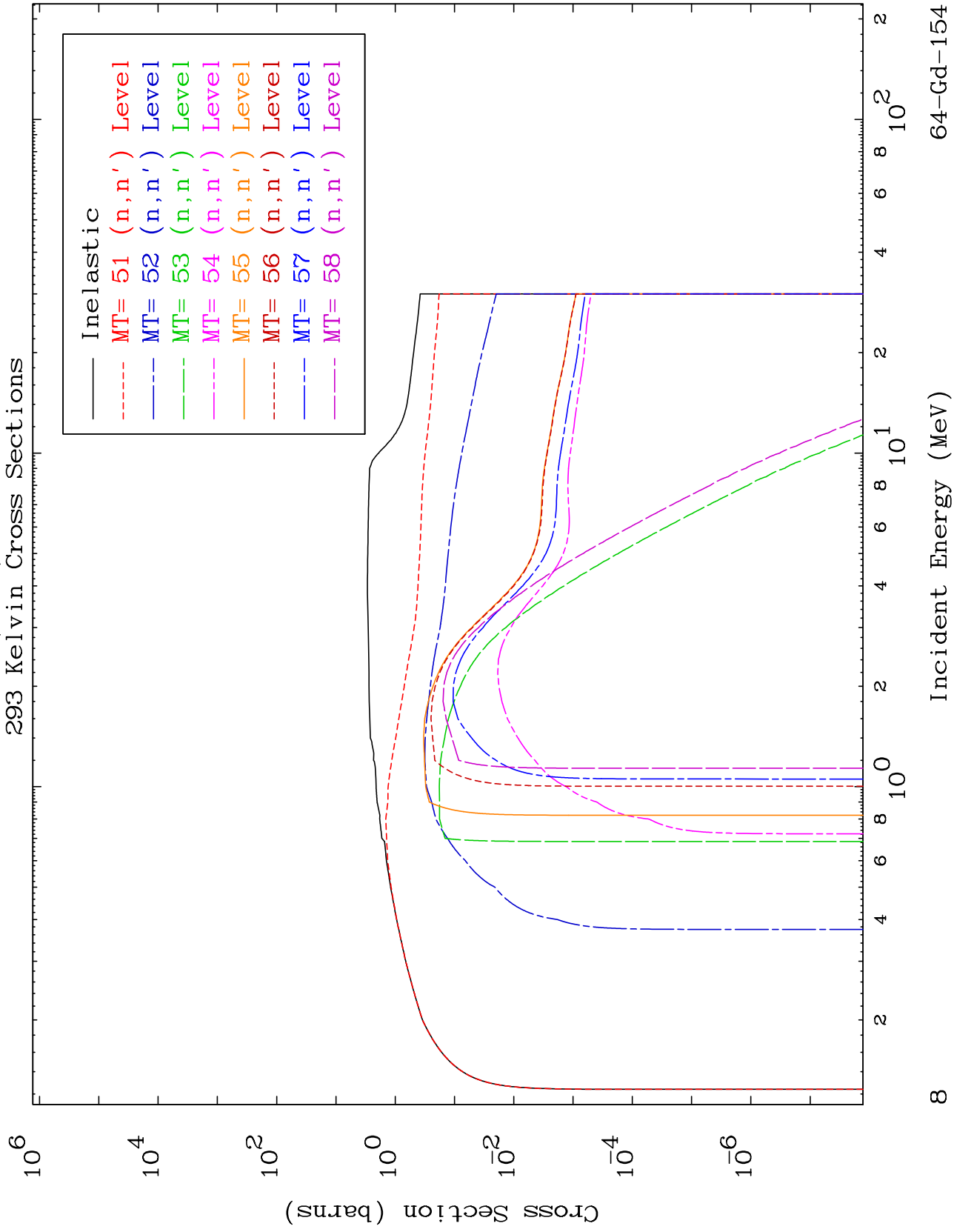
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MAT 6431

(n,n') Levels
293 Kelvin Cross Sections

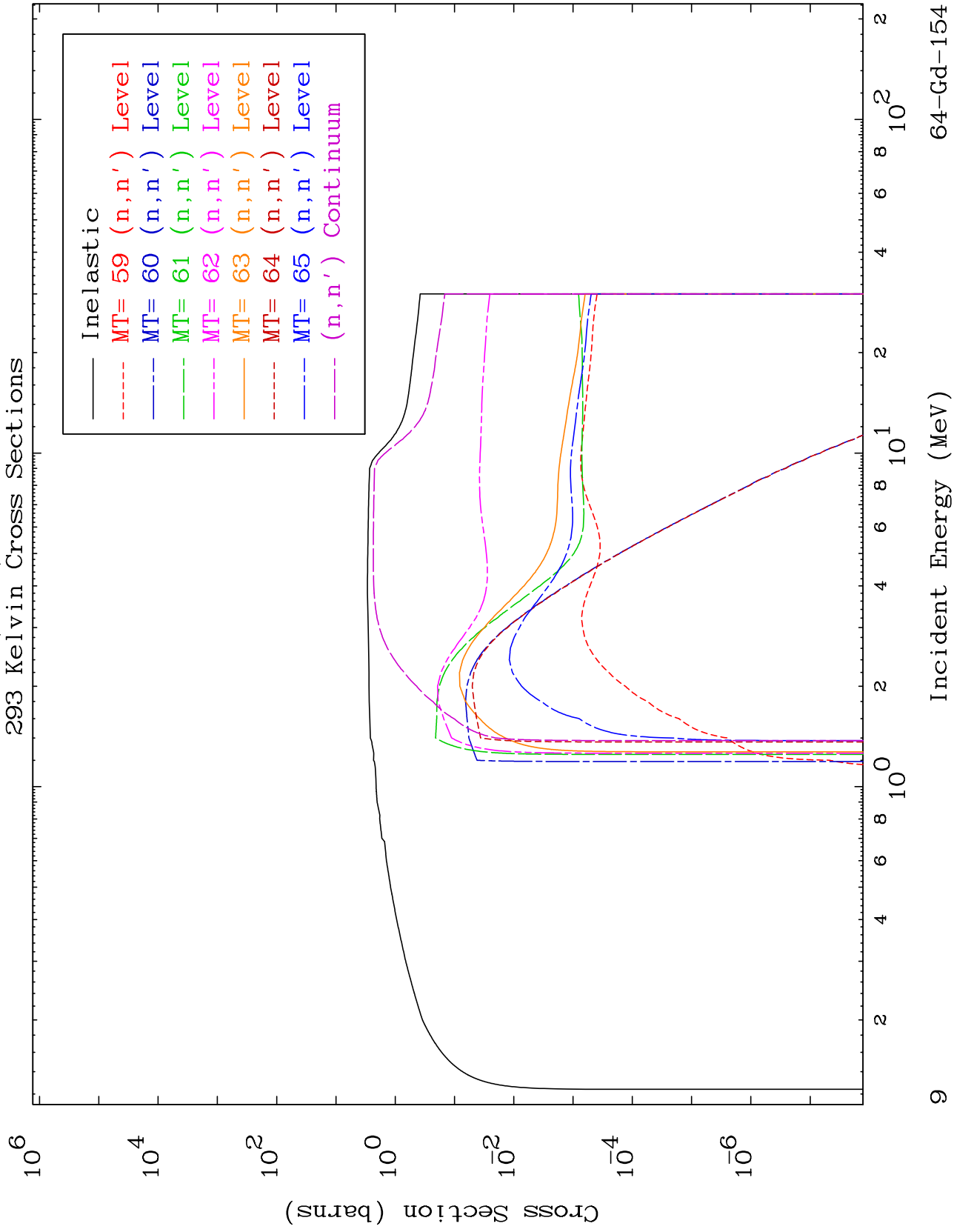
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MAT 6431

(n,n') Levels
293 Kelvin Cross Sections

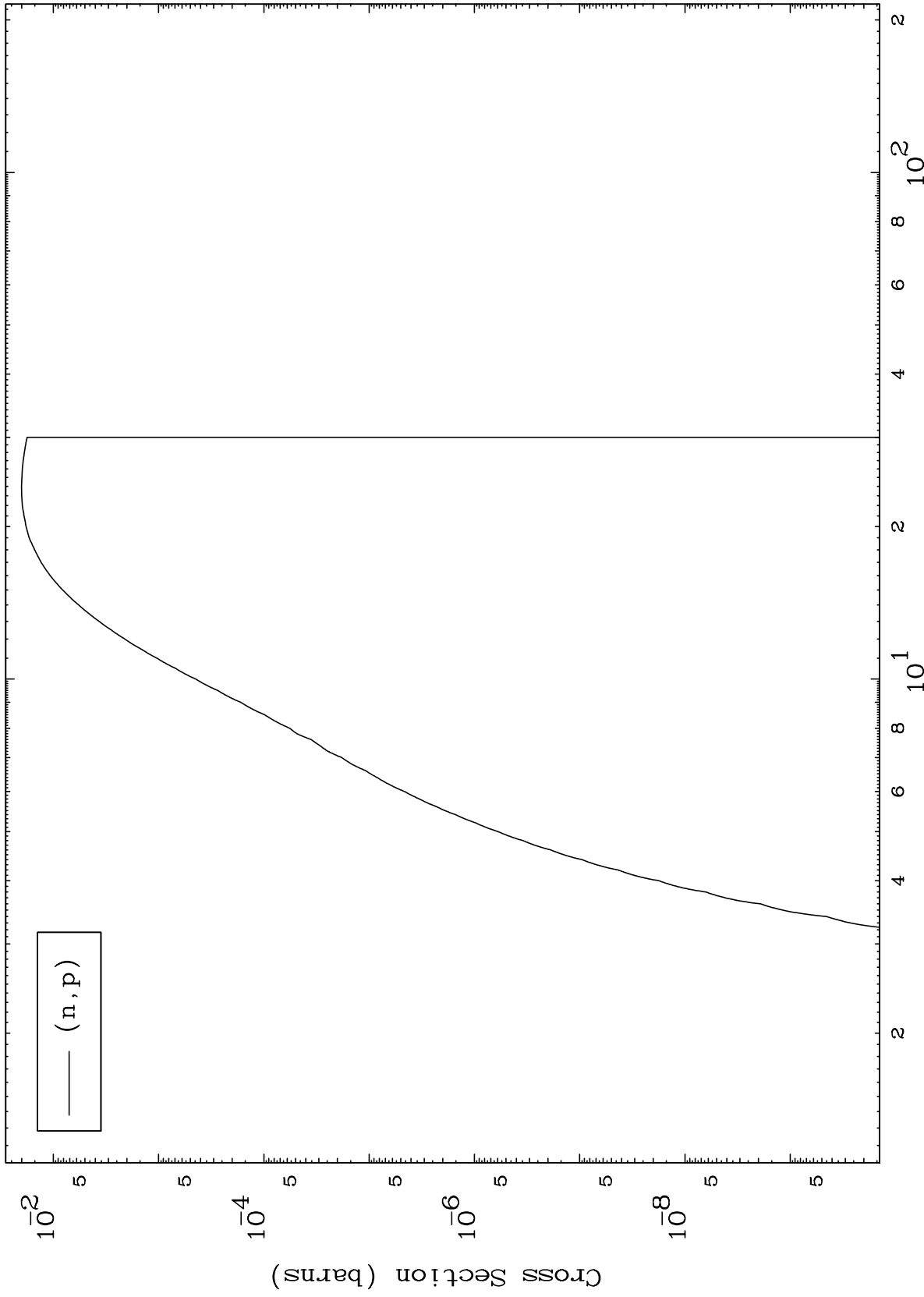
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MAT 6431

(n,p) Levels
293 Kelvin Cross Sections

64-Gd-154



10

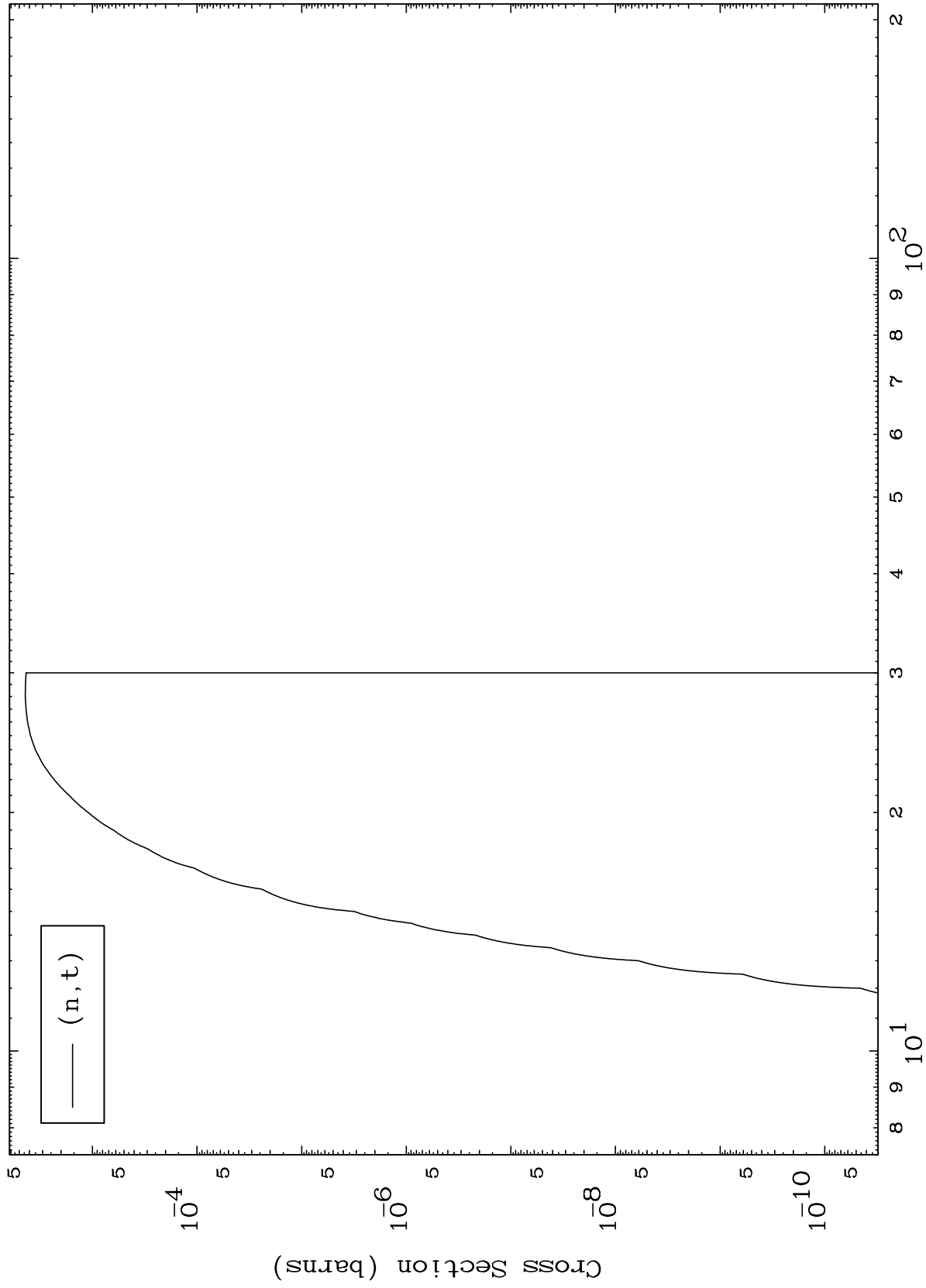
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,t) Levels
293 Kelvin Cross Sections

64-Gd-154



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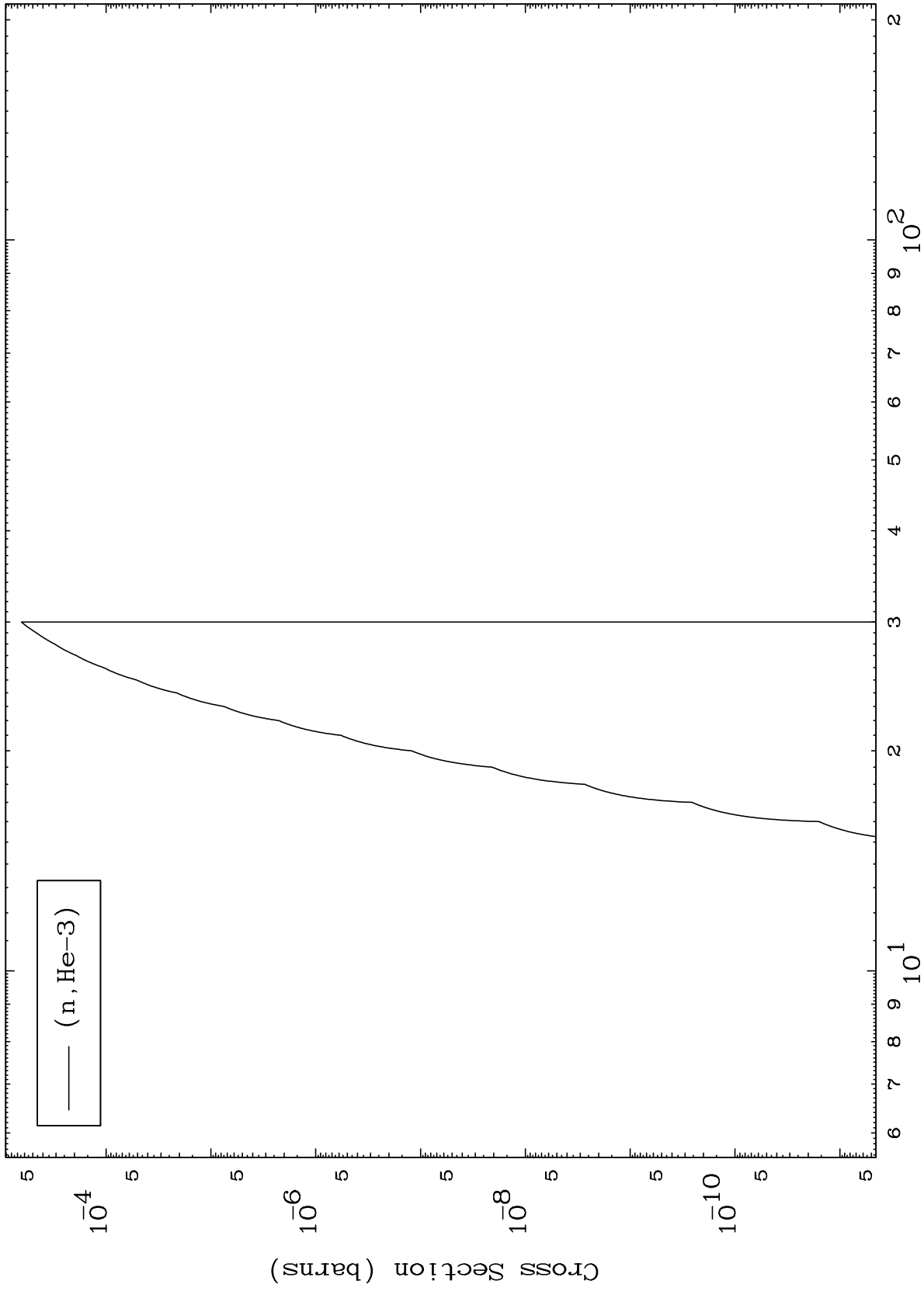
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64-Gd-154

MAT 6431

(n,He3) Levels
293 Kelvin Cross Sections

64-Gd-154



13

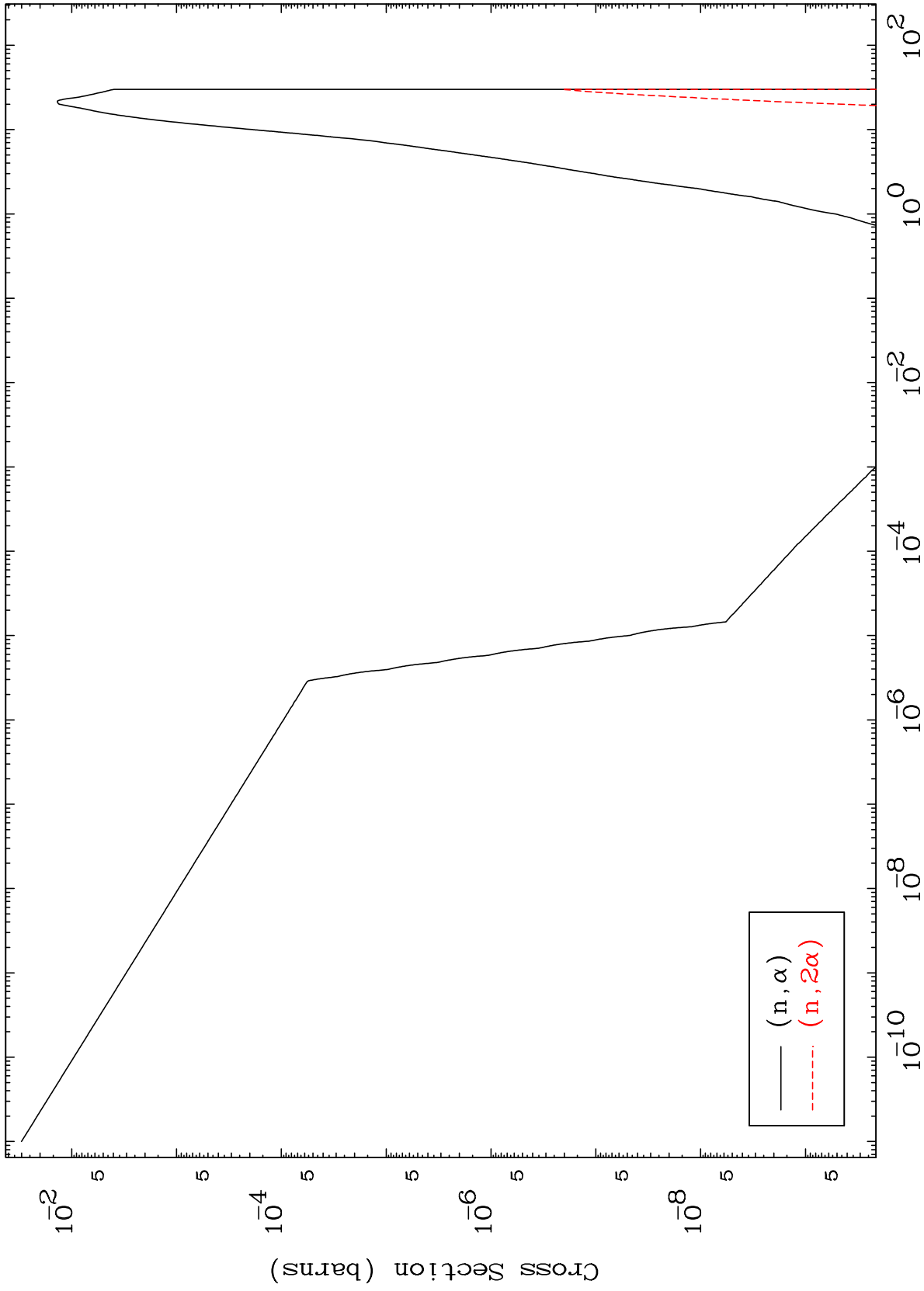
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64-Gd-154

MAT 6431

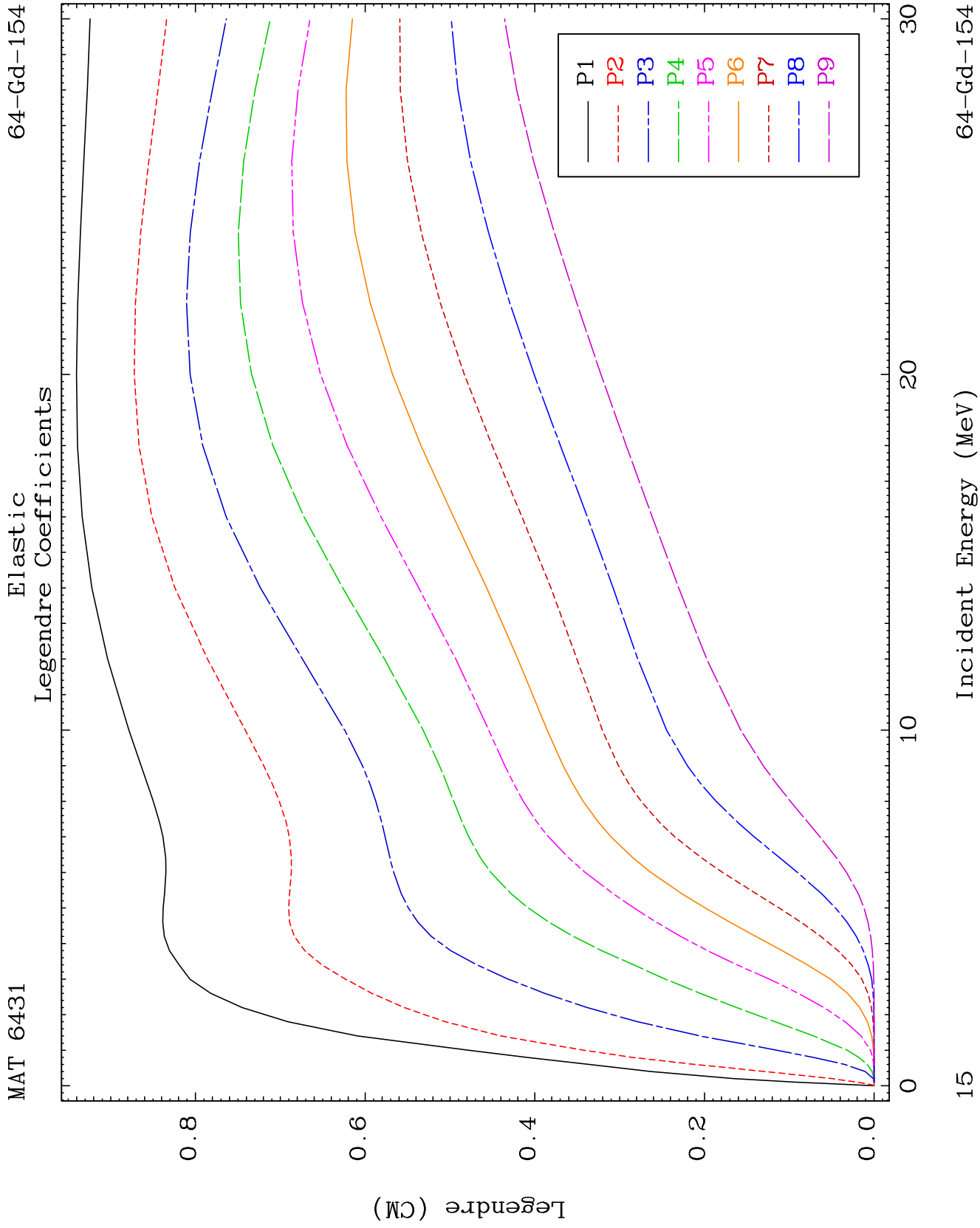
(n,α) Levels
293 Kelvin Cross Sections

64-Gd-154



14

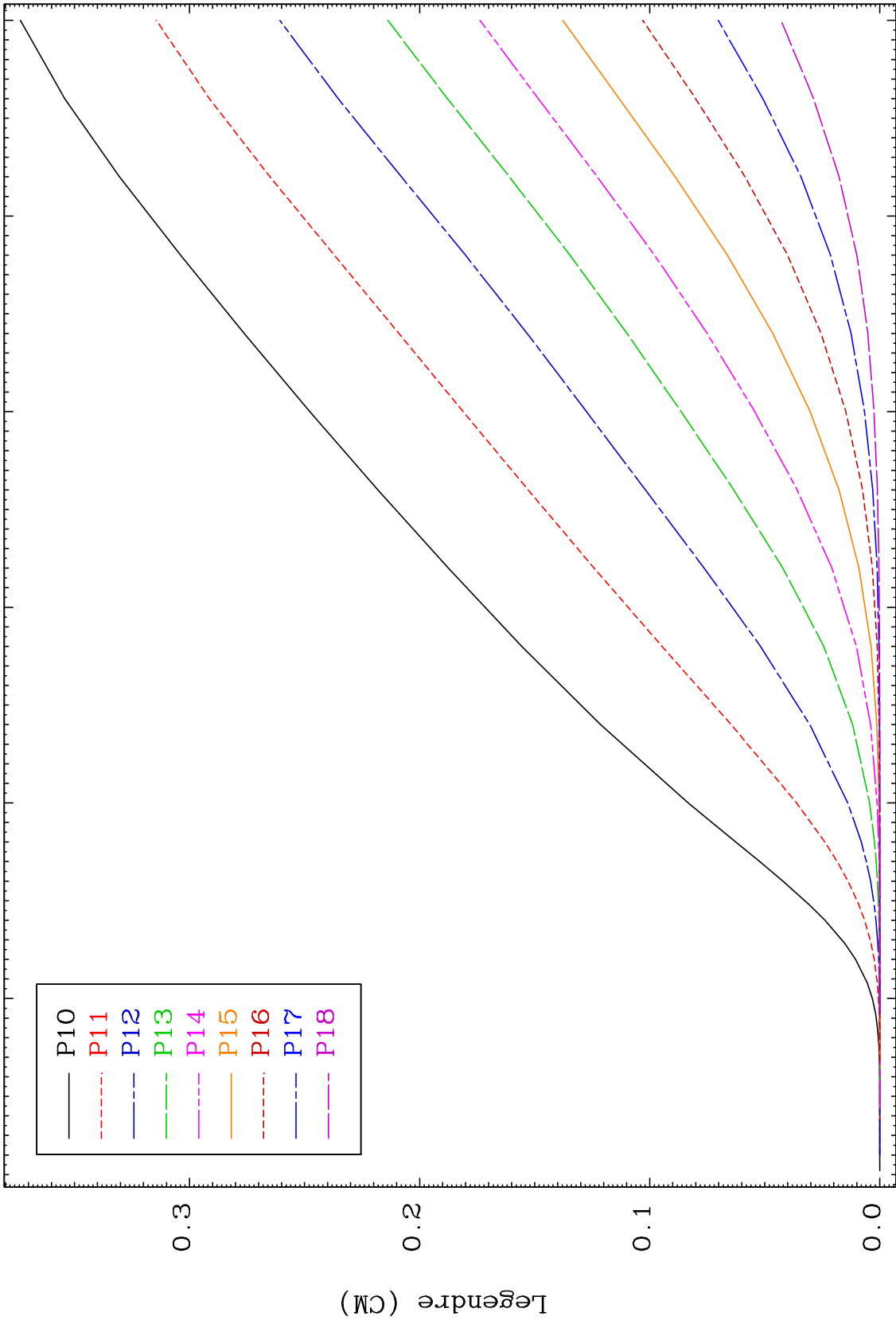
64-Gd-154



MAT 6431

Elastic Legendre Coefficients

64-Gd-154



16

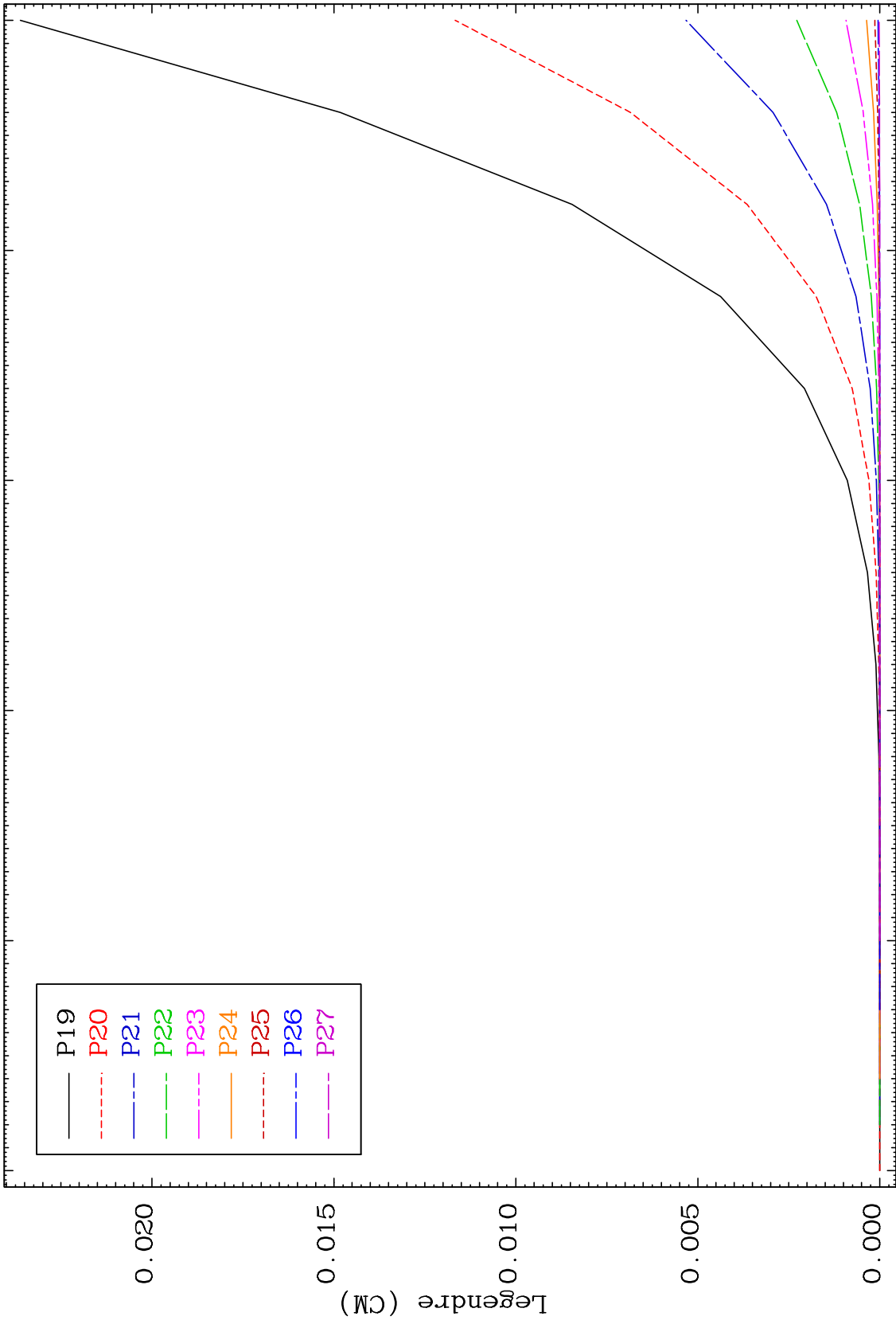
Incident Energy (MeV)

64-Gd-154

MAT 6431

Elastic Legendre Coefficients

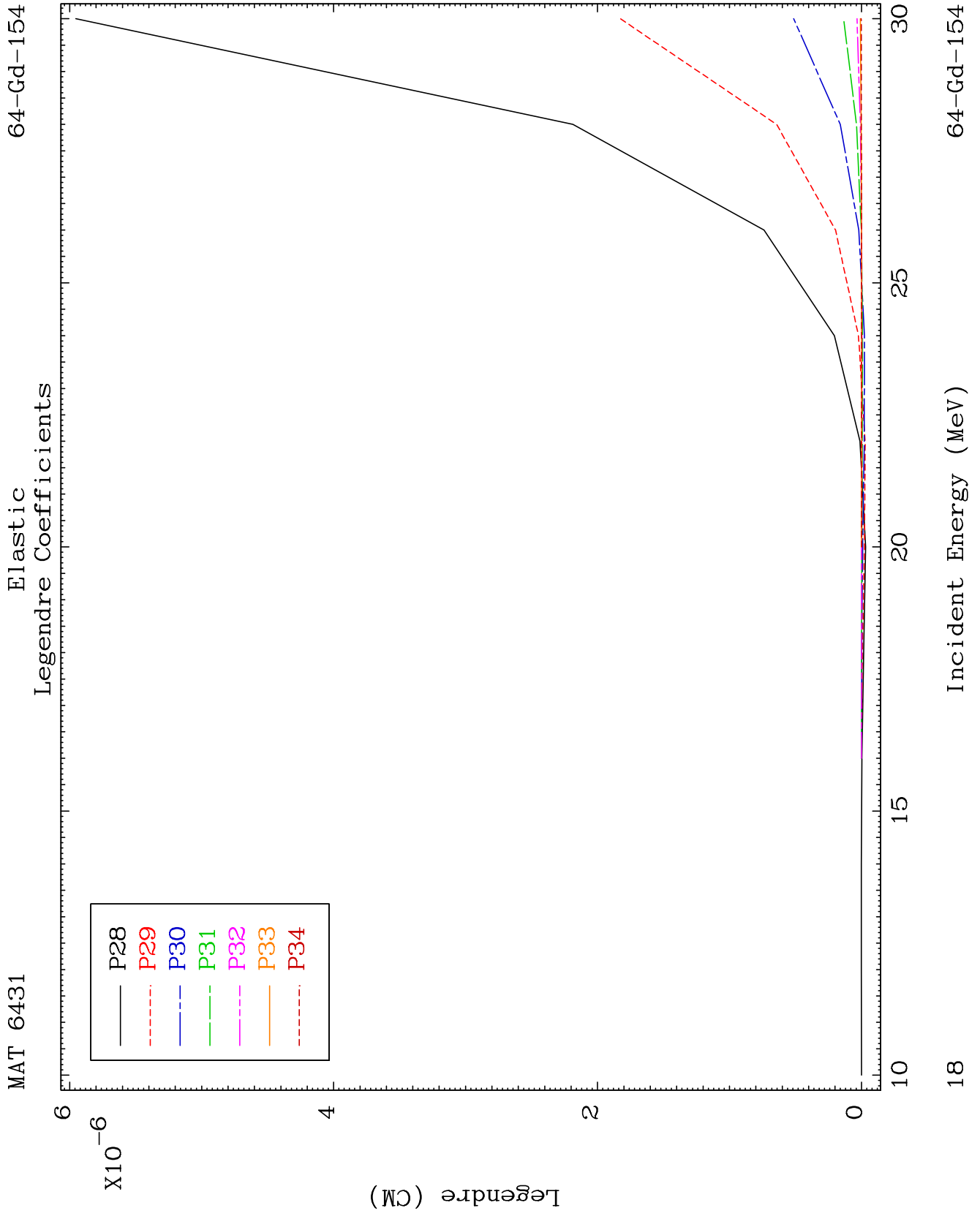
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17

Incident Energy (MeV)

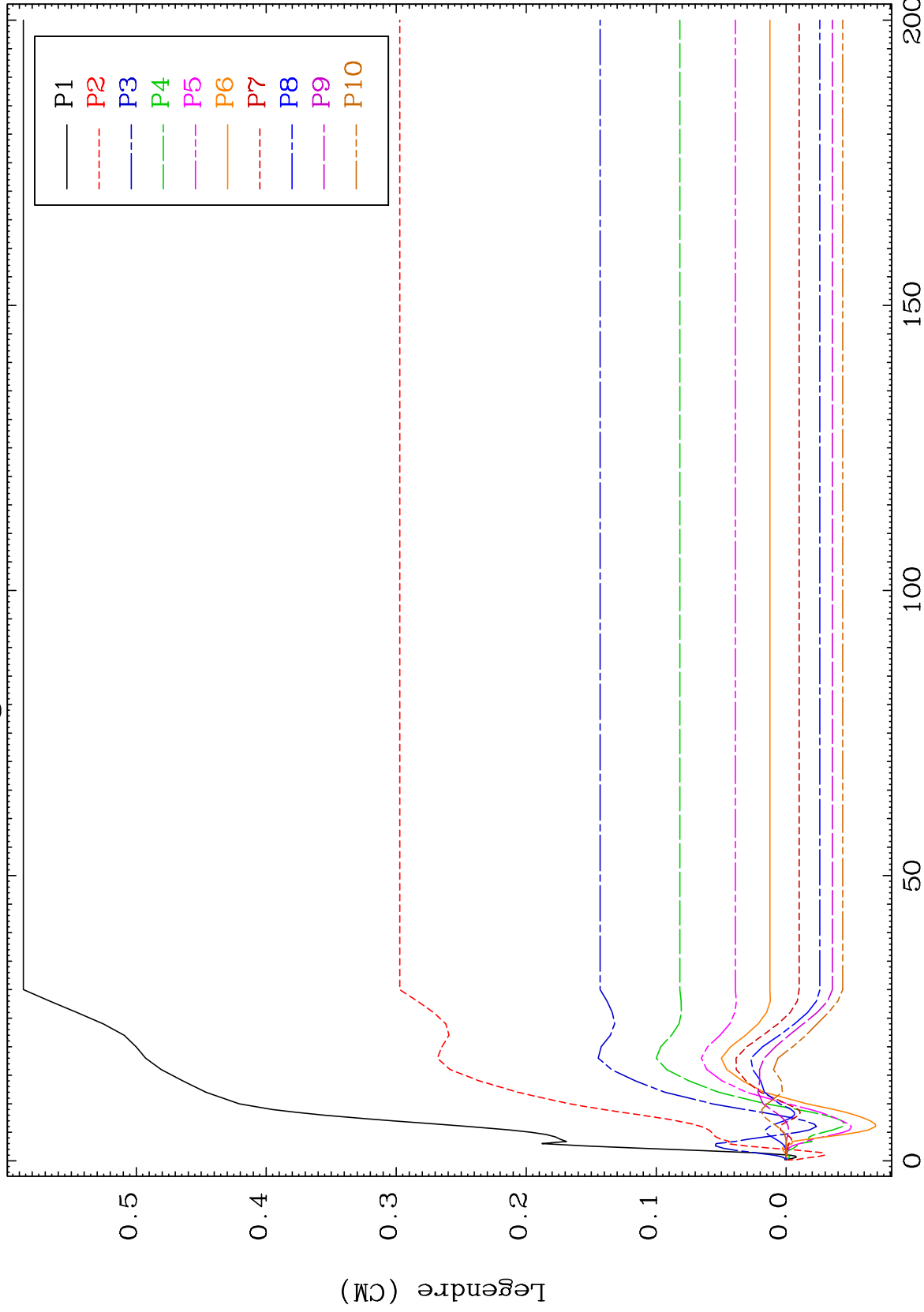
64-Gd-154



MAT 6431

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-154



19

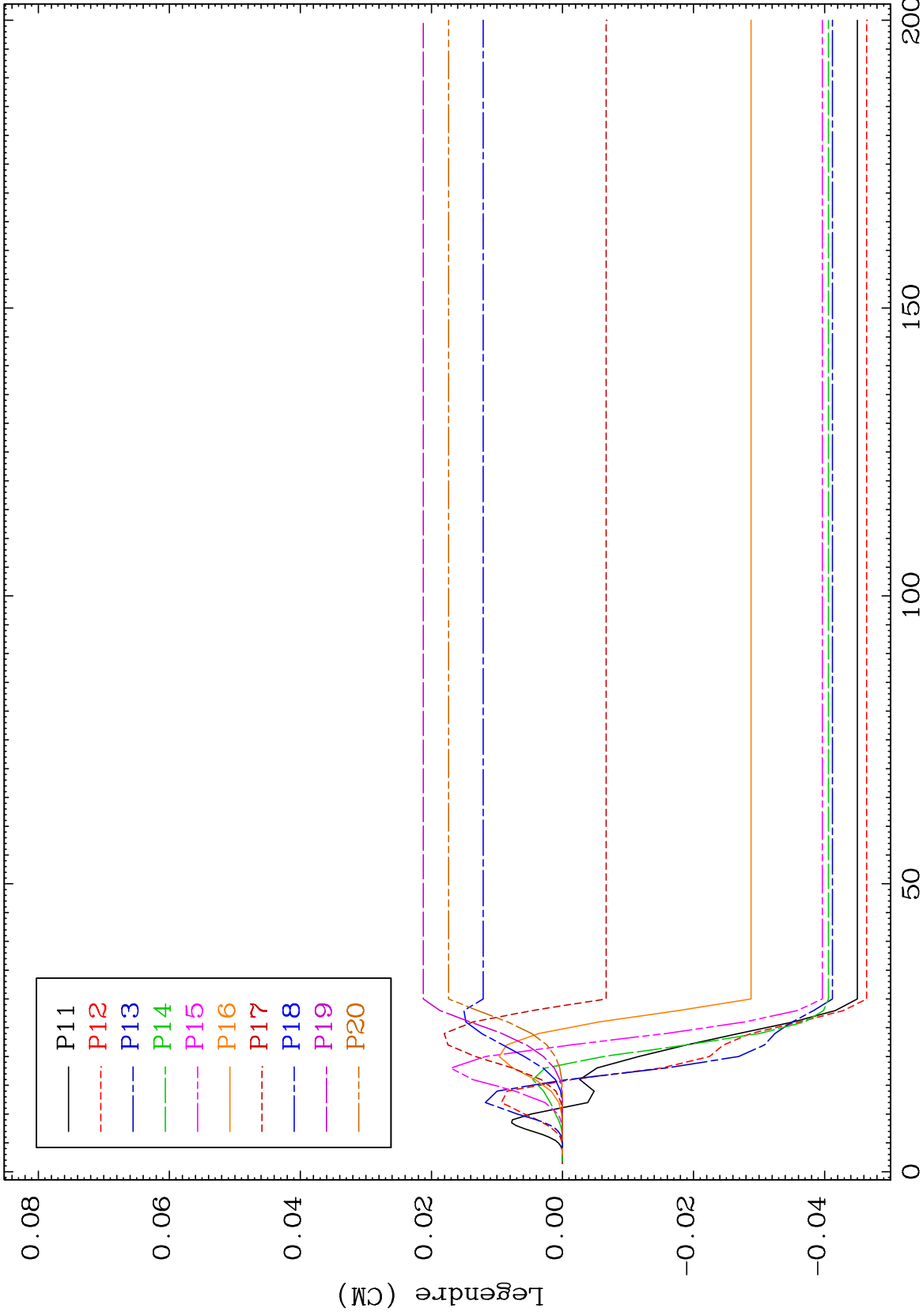
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-154



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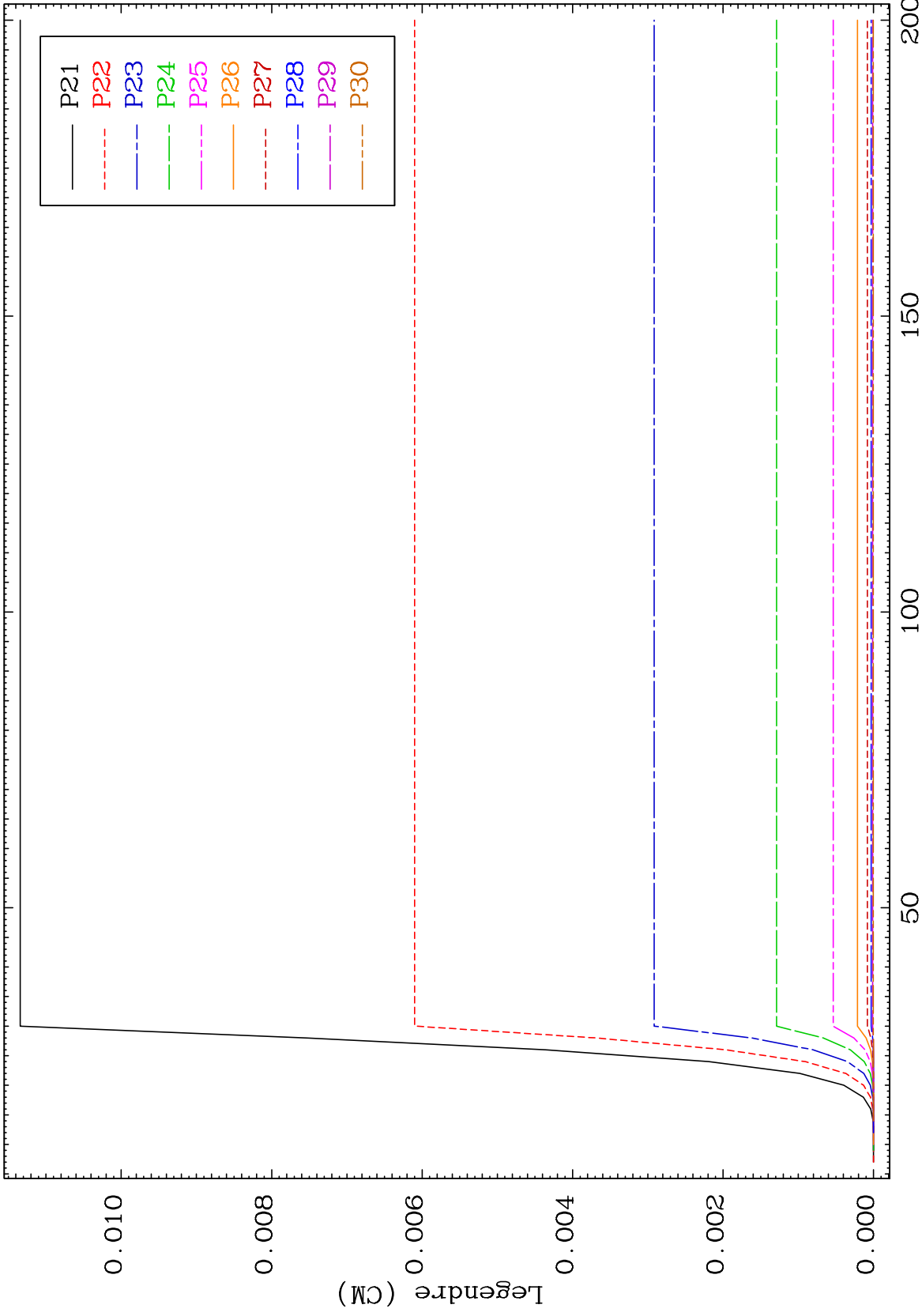
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-154



21

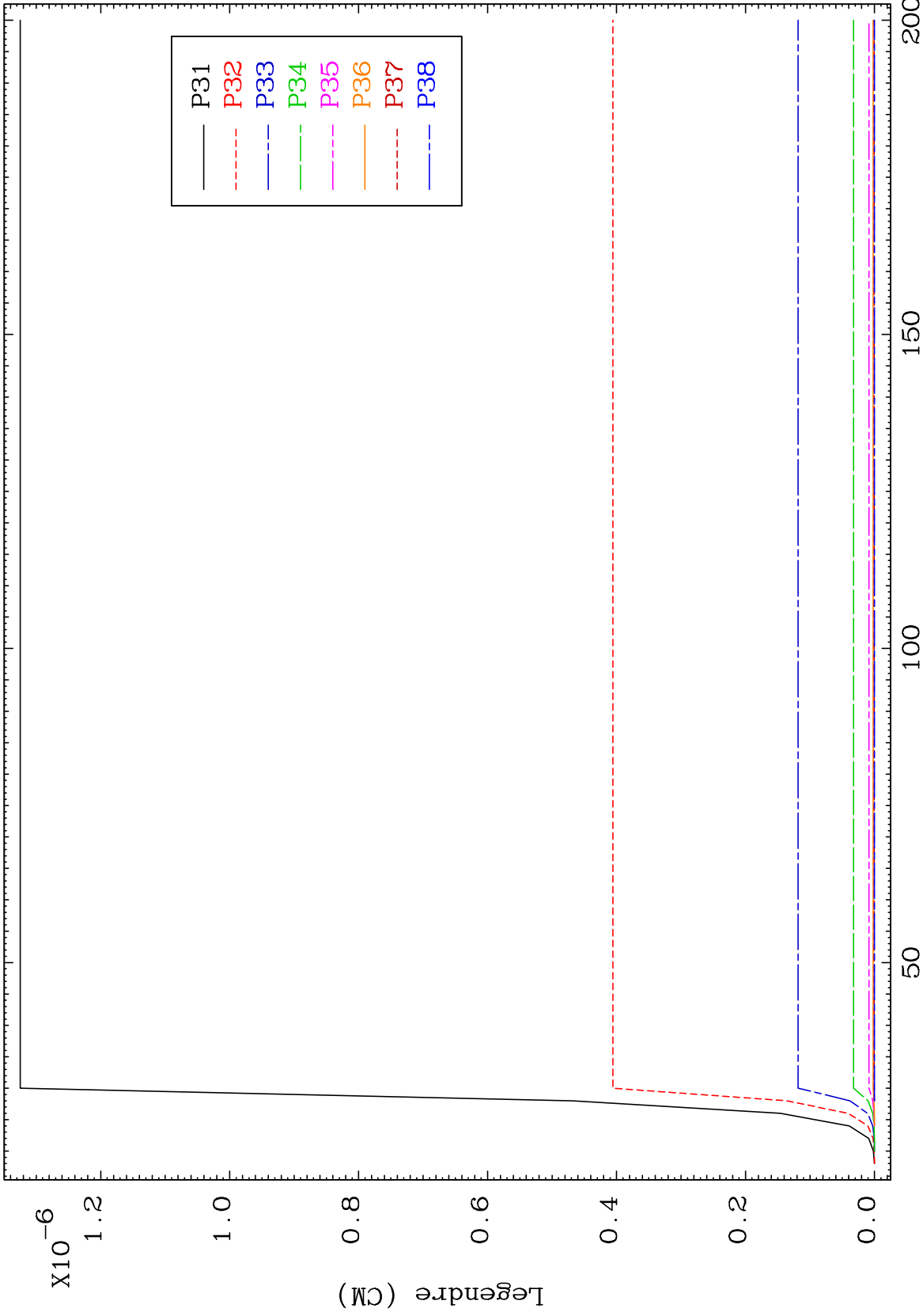
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 51 (n,n') Level
Legendre Coefficients

64-Gd-154



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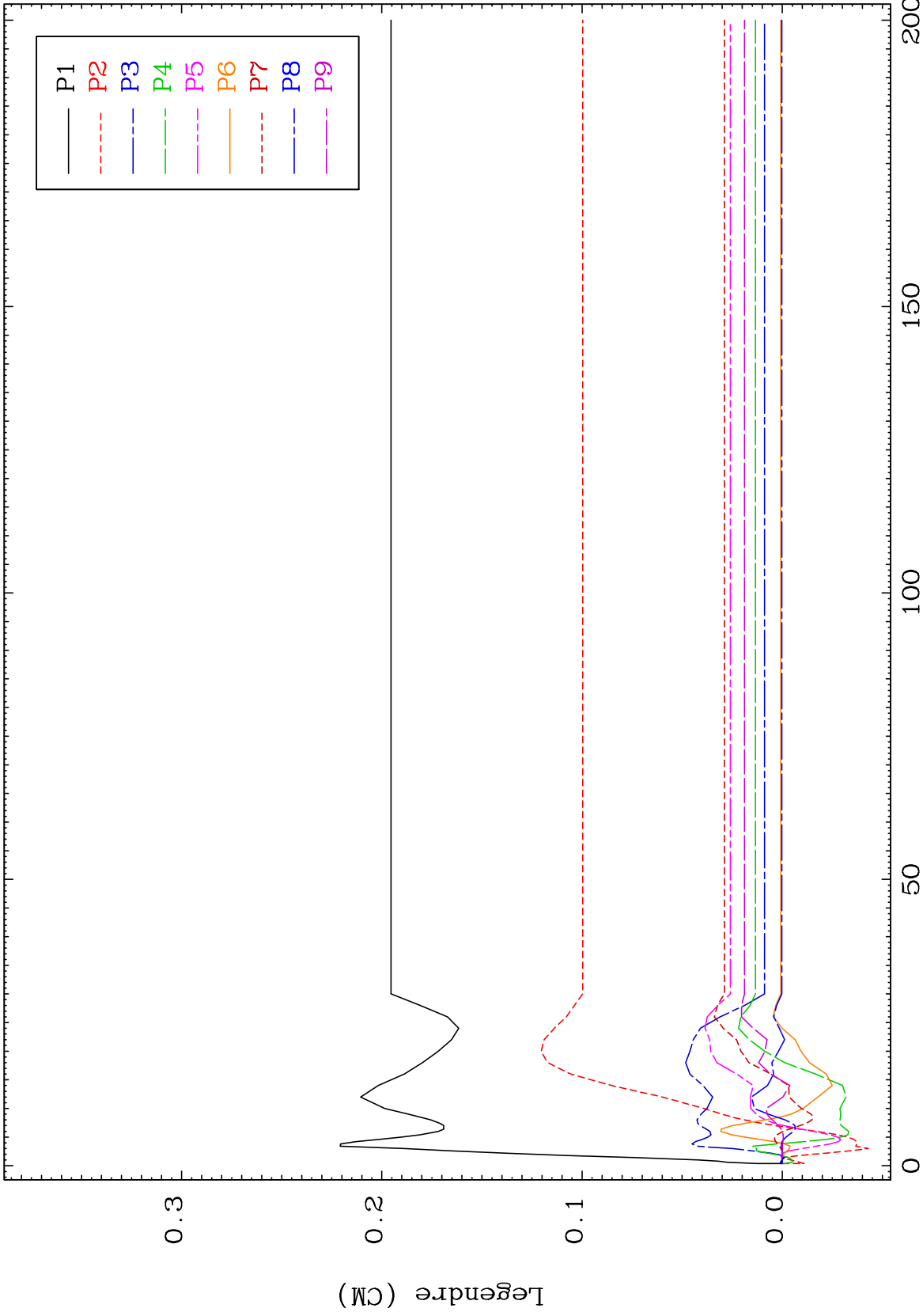
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 52 (n,n') Level
Legendre Coefficients

64-Gd-154

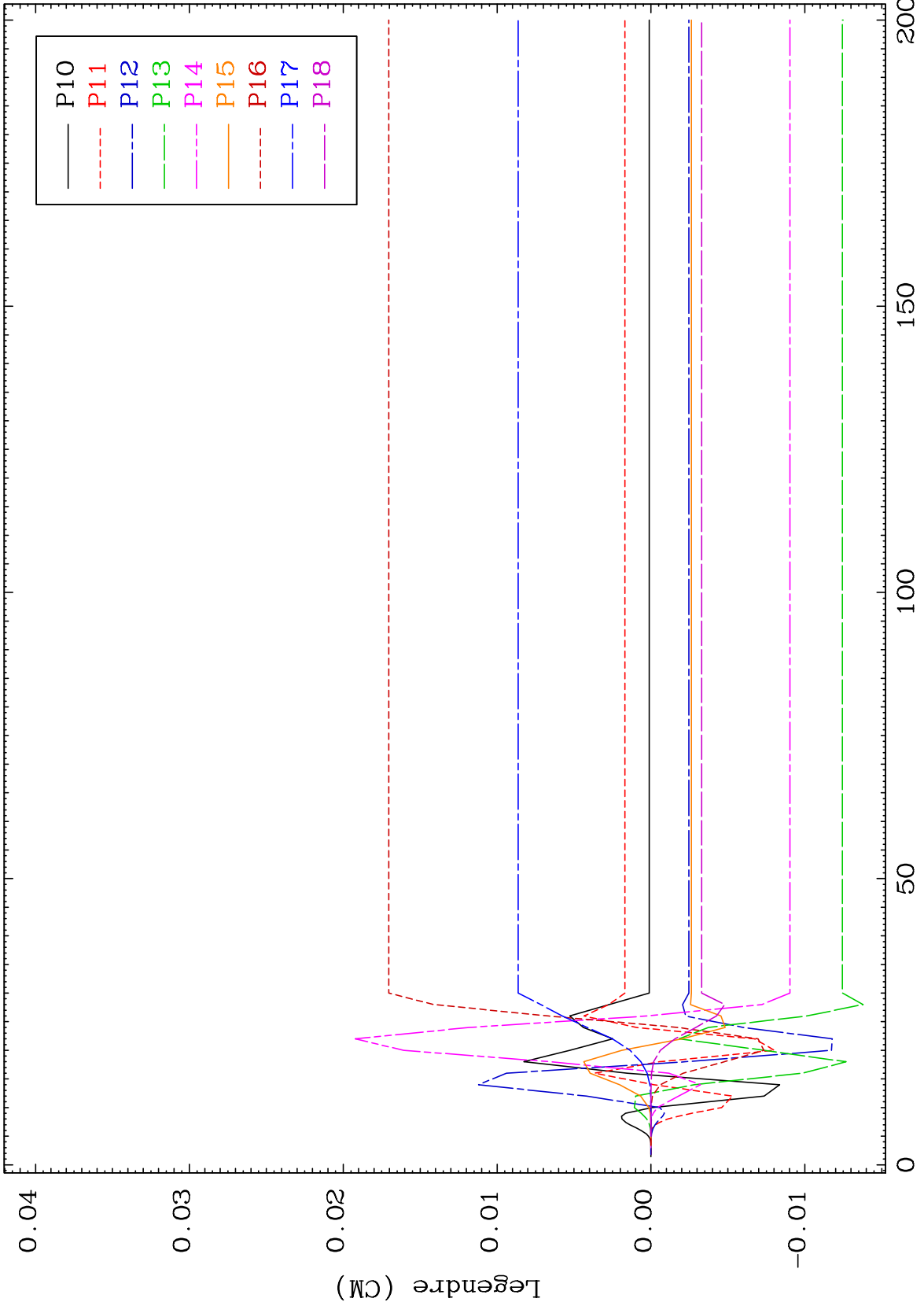


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Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 52 (n,n') Level Legendre Coefficients 64-Gd-154

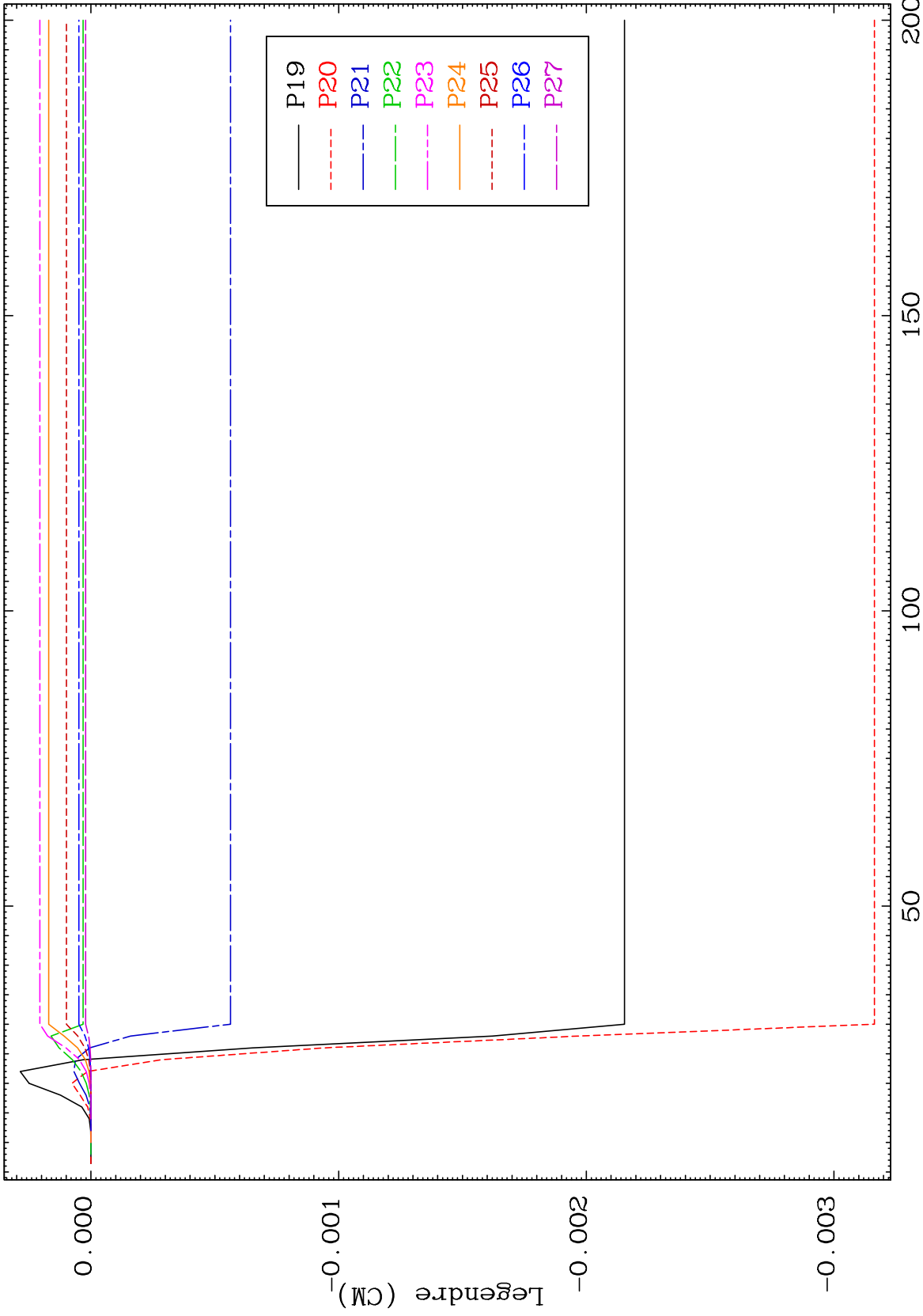


24 64-Gd-154

MAT 6431

MT= 52 (n,n') Level
Legendre Coefficients

64-Gd-154



25

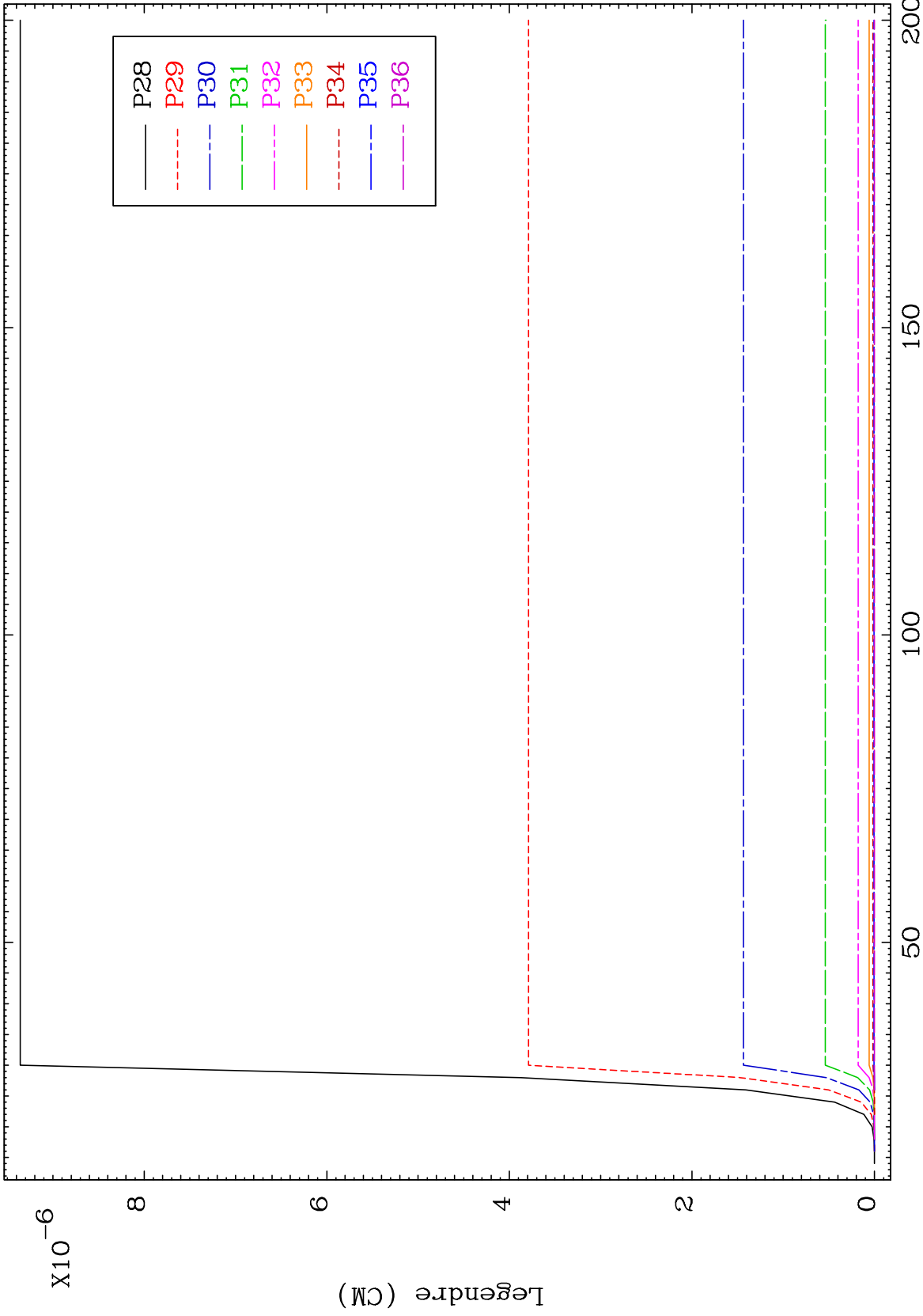
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 52 (n,n') Level
Legendre Coefficients

64-Gd-154



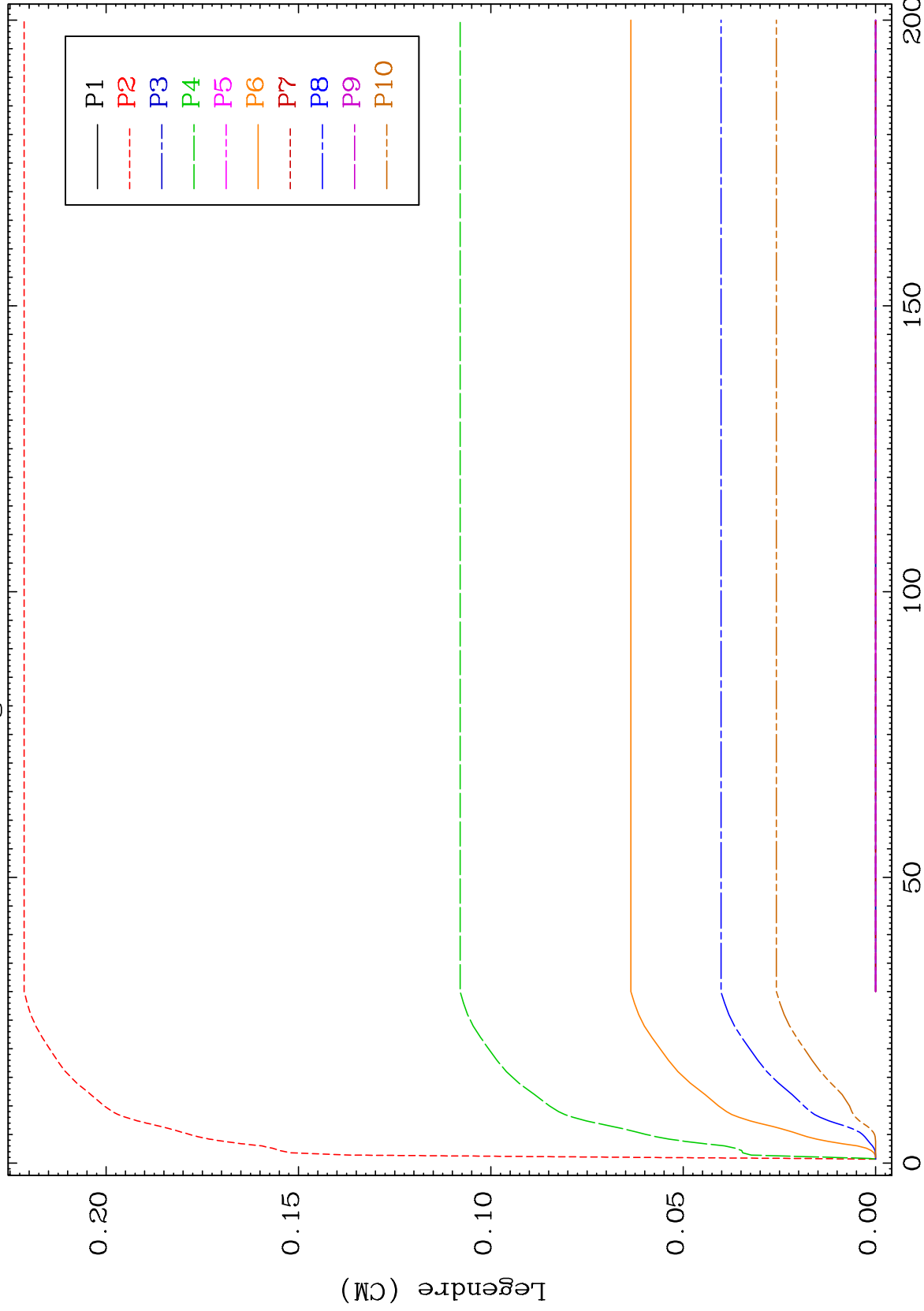
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64-Gd-154

MAT 6431

MT= 53 (n,n') Level
Legendre Coefficients

64-Gd-154



27

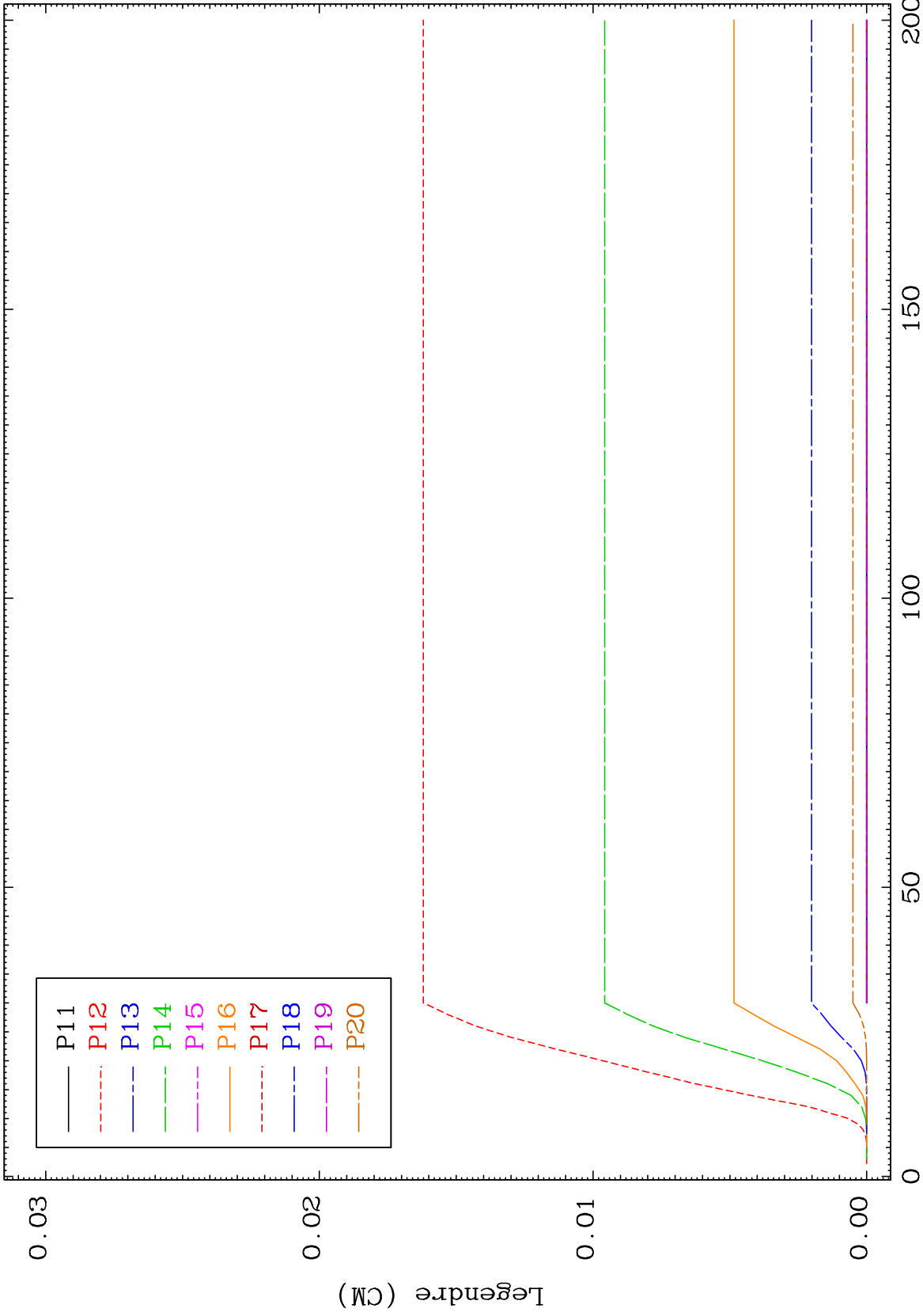
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 53 (n,n') Level
Legendre Coefficients

64-Gd-154



28

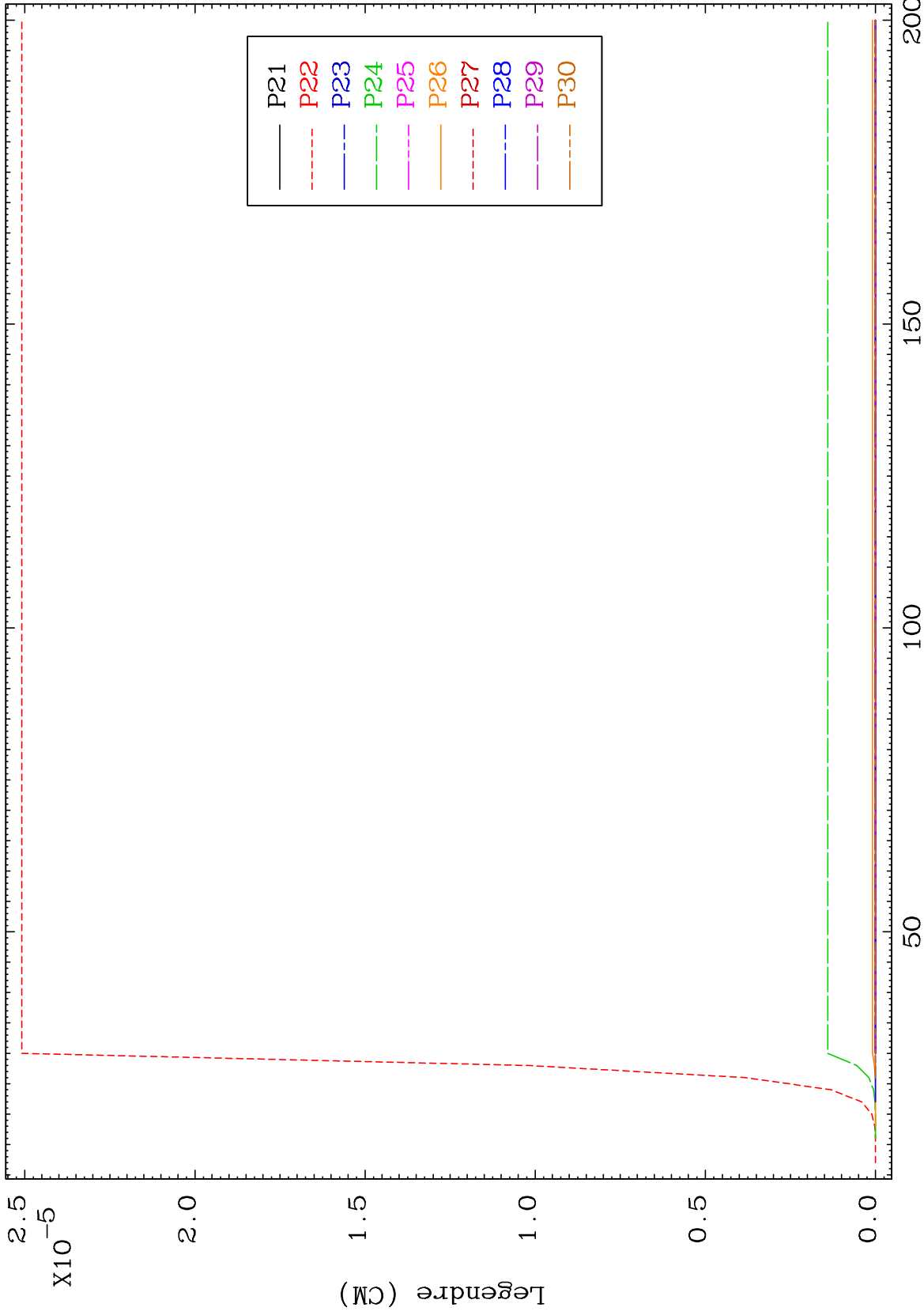
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 53 (n,n') Level
Legendre Coefficients

64-Gd-154



29

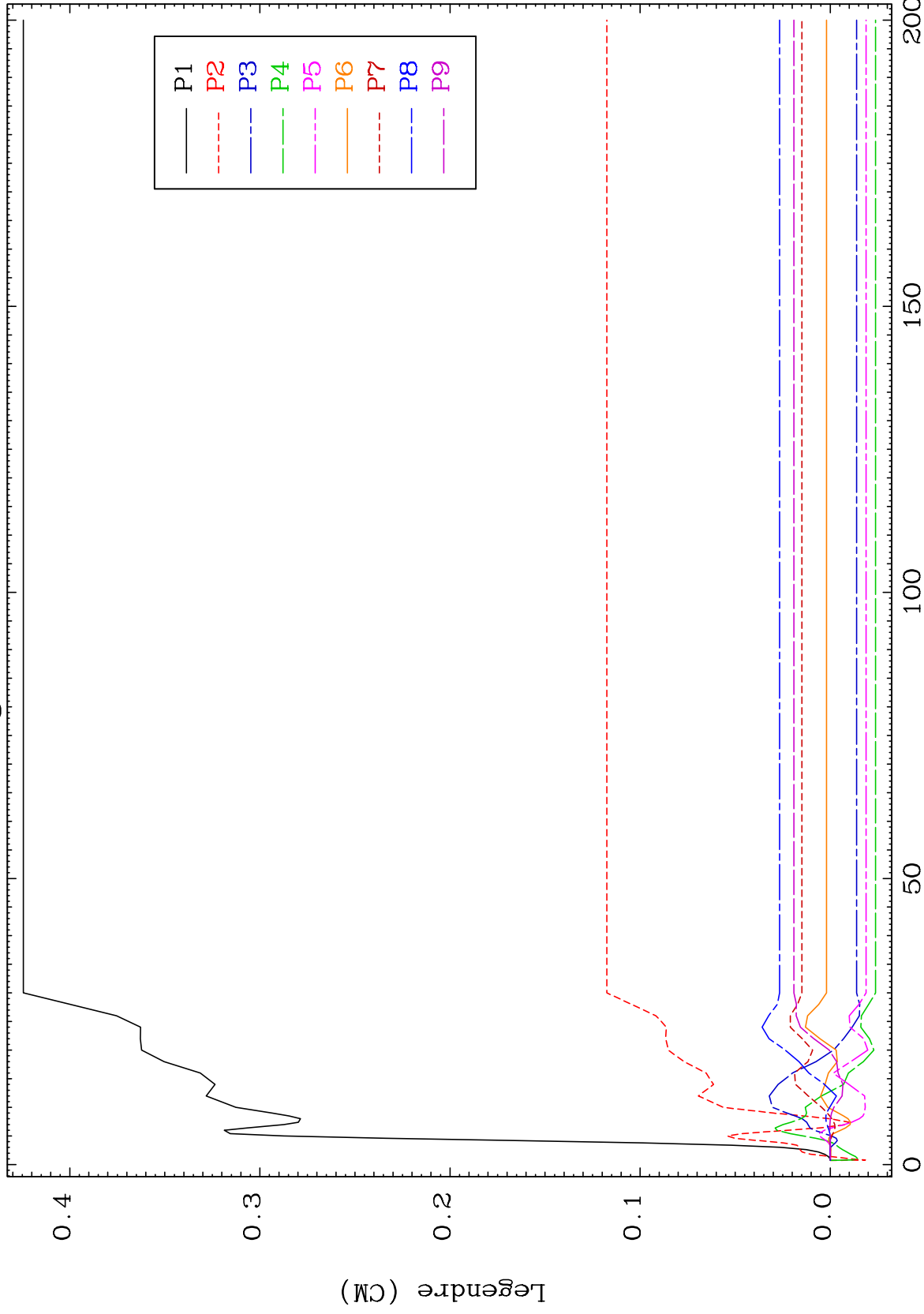
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 54 (n,n') Level
Legendre Coefficients

64-Gd-154



64-Gd-154

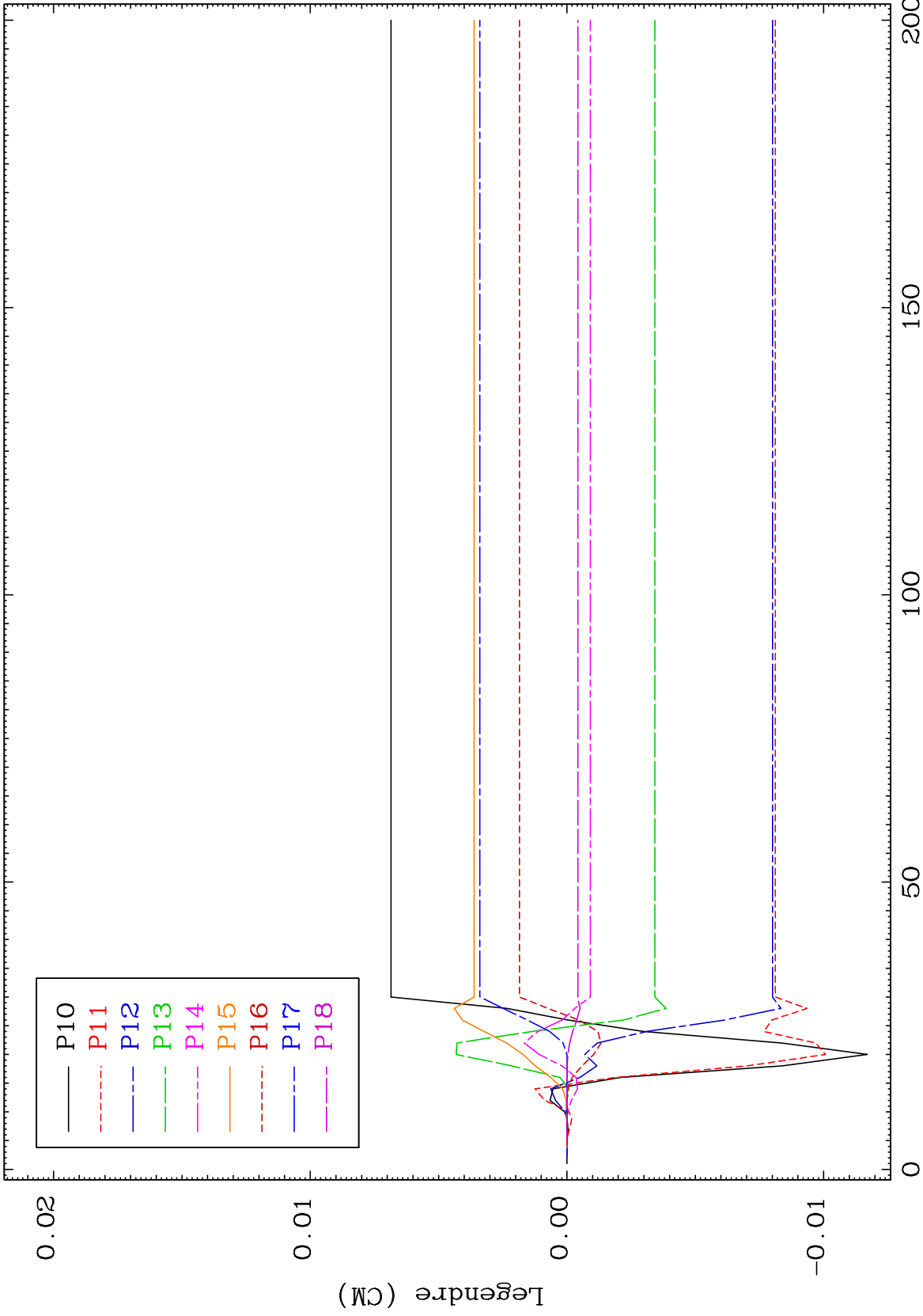
Incident Energy (MeV)

30

MAT 6431

MT= 54 (n,n') Level
Legendre Coefficients

64-Gd-154



31

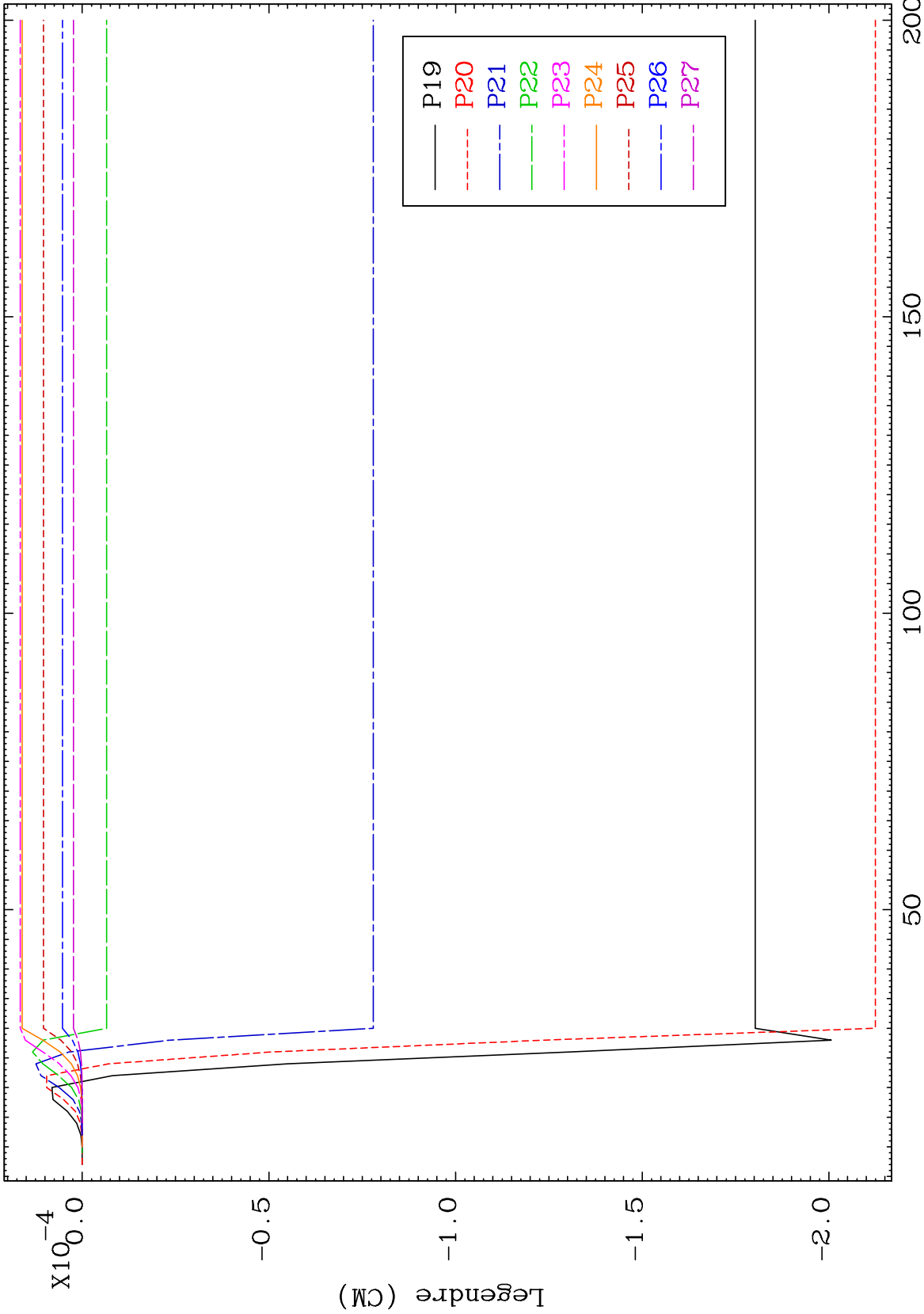
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 54 (n,n') Level
Legendre Coefficients

64-Gd-154



64-Gd-154

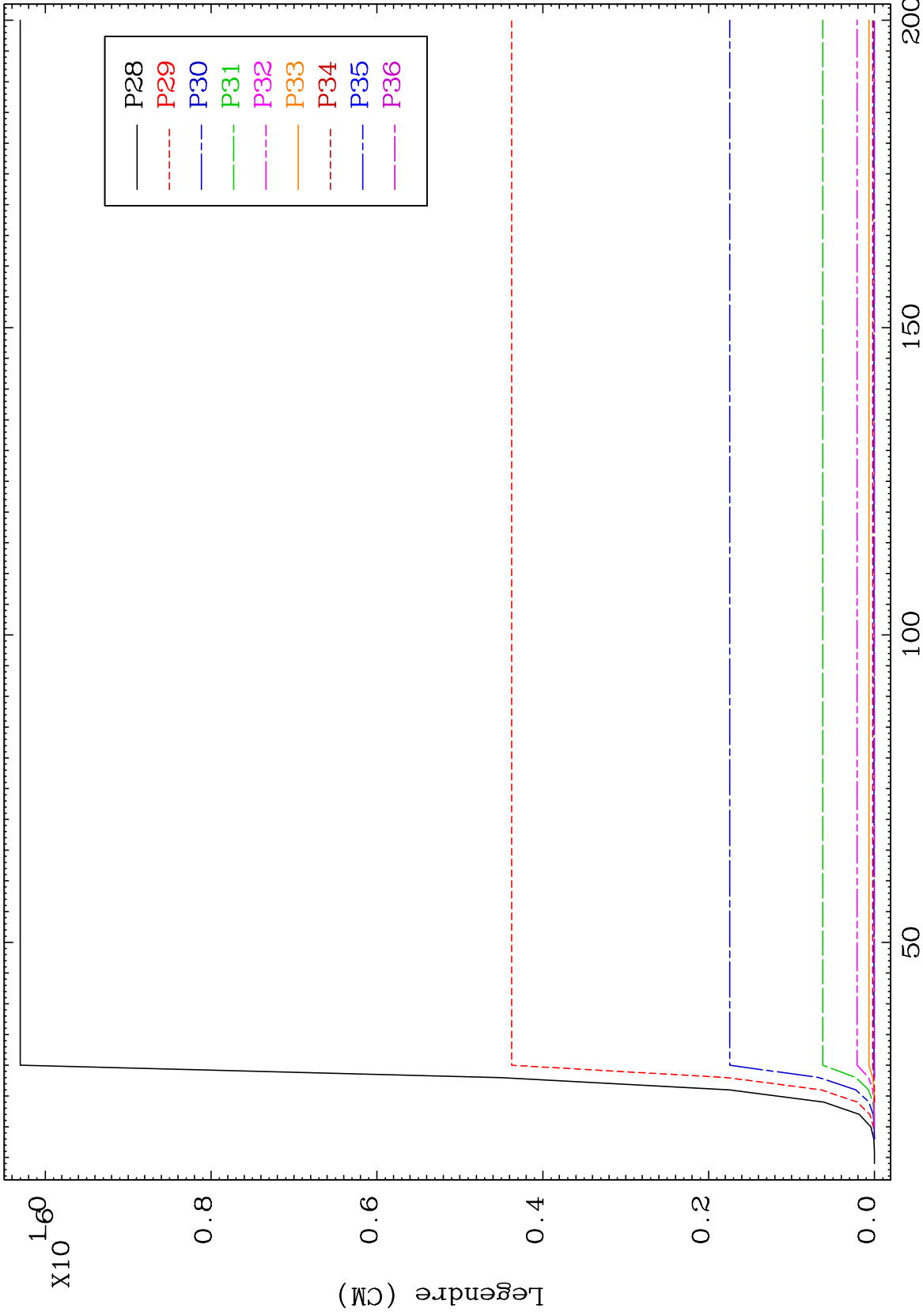
Incident Energy (MeV)

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MAT 6431

MT= 54 (n,n') Level
Legendre Coefficients

64-Gd-154



33

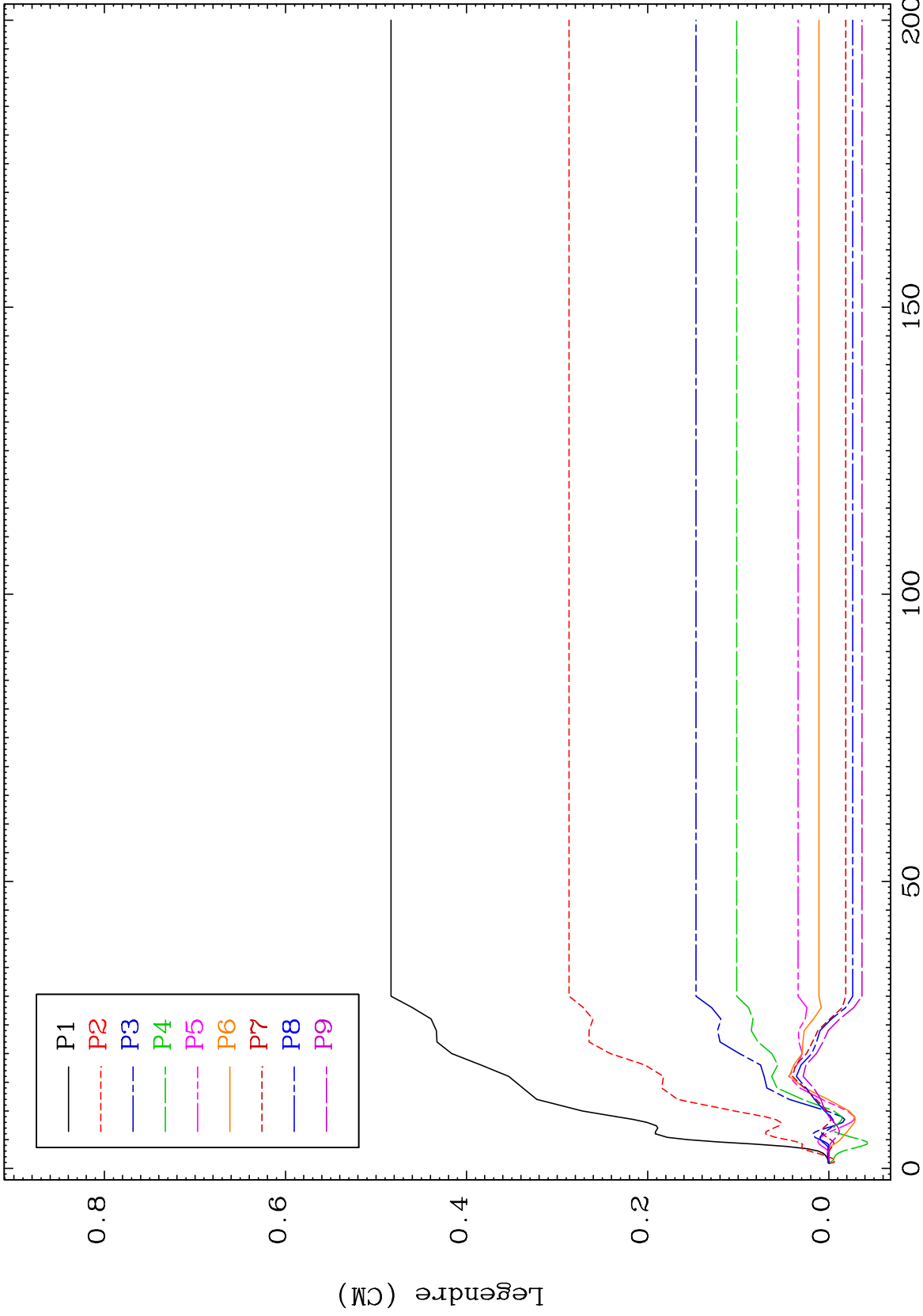
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-154



34

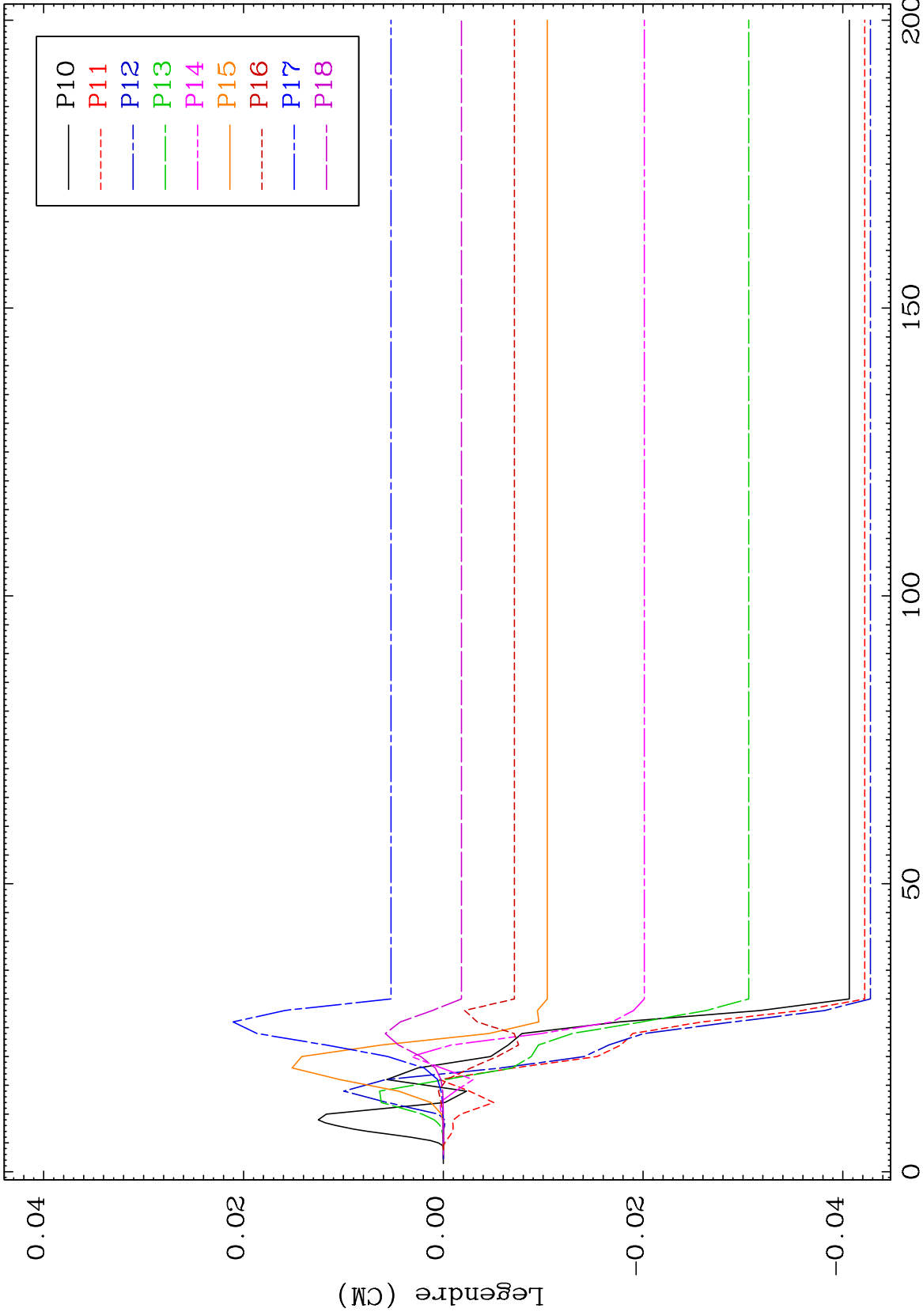
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-154



35

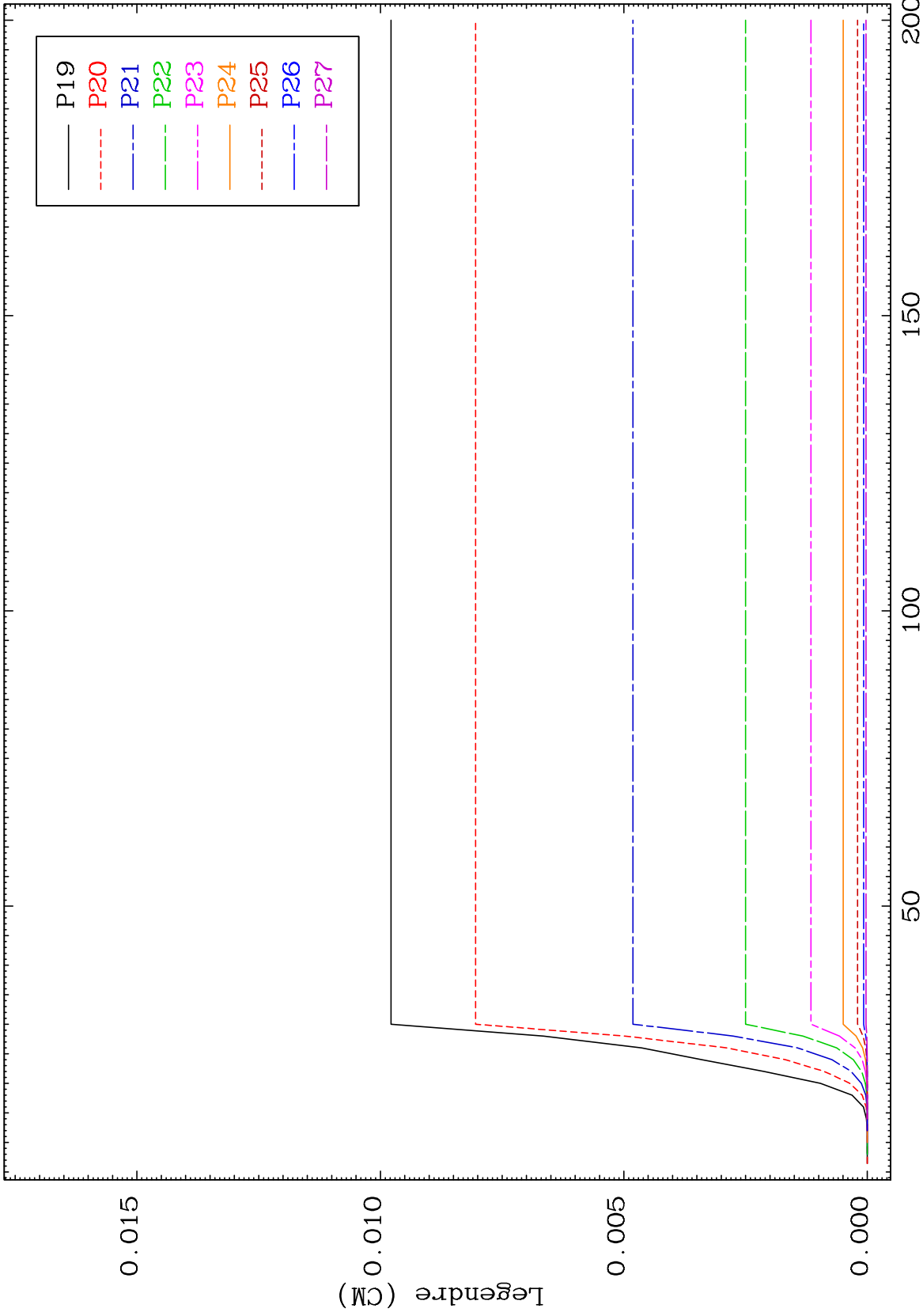
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-154



36

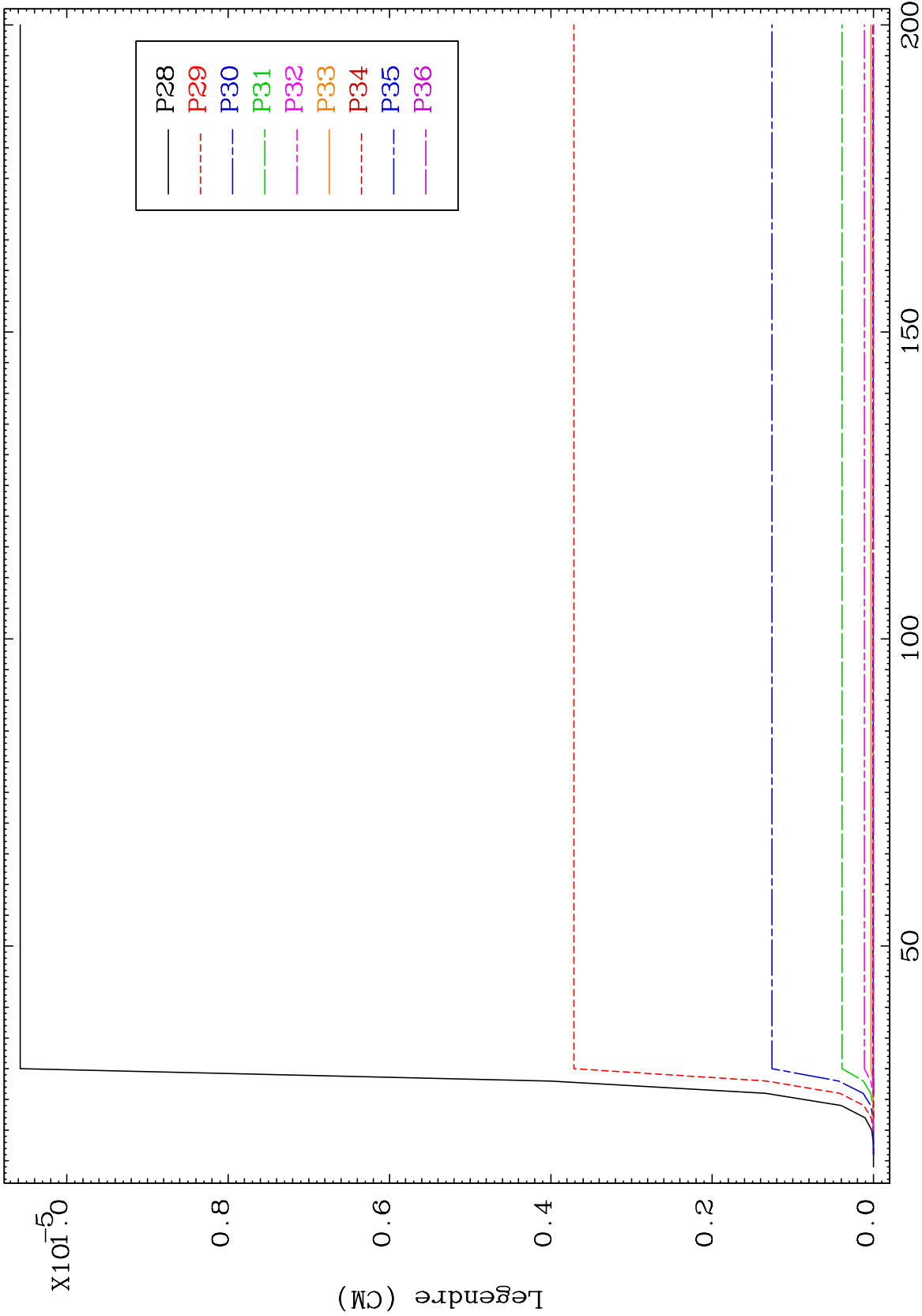
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 55 (n,n') Level
Legendre Coefficients

64-Gd-154



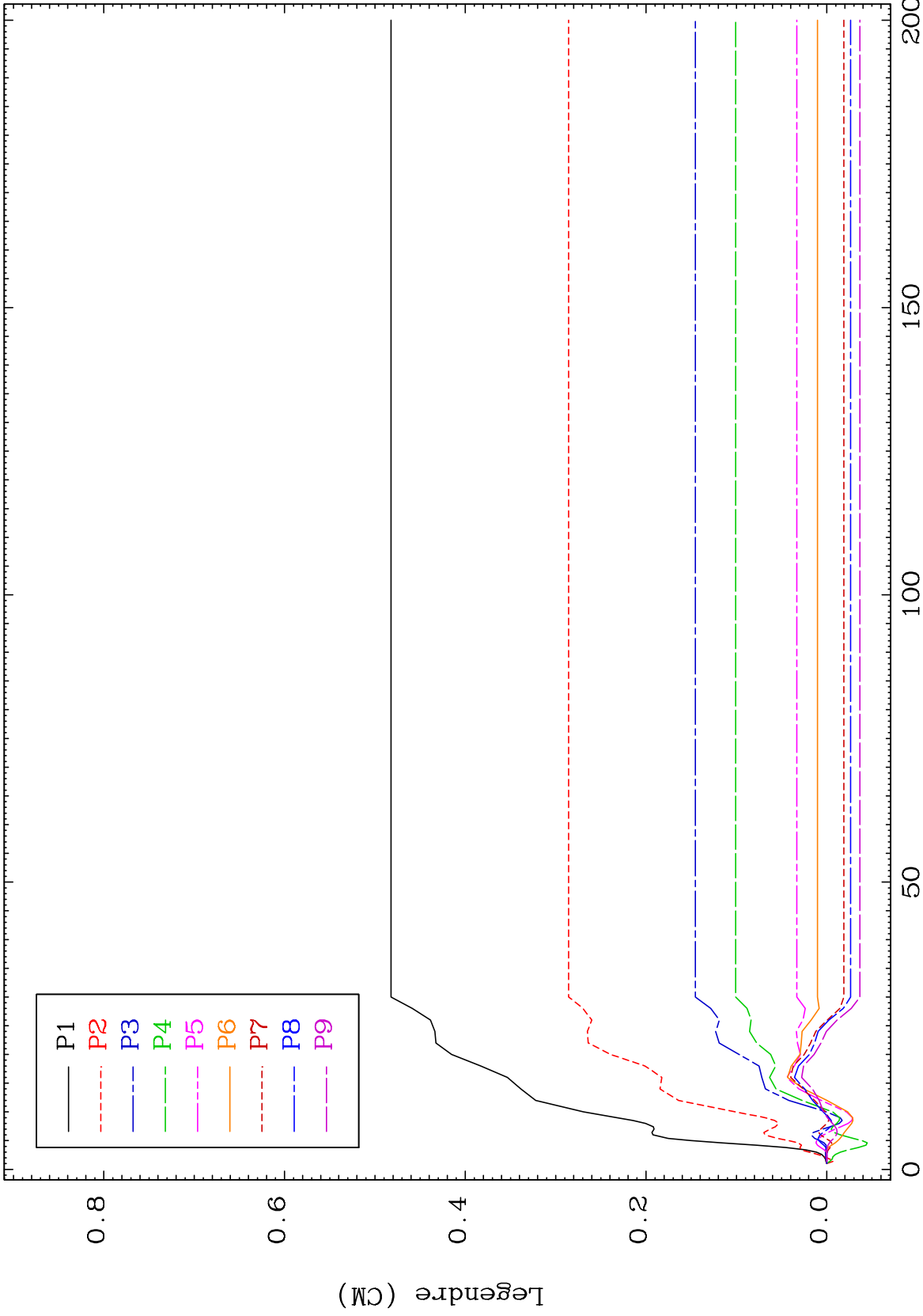
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64-Gd-154

MAT 6431

MT= 56 (n,n') Level
Legendre Coefficients

64-Gd-154



38

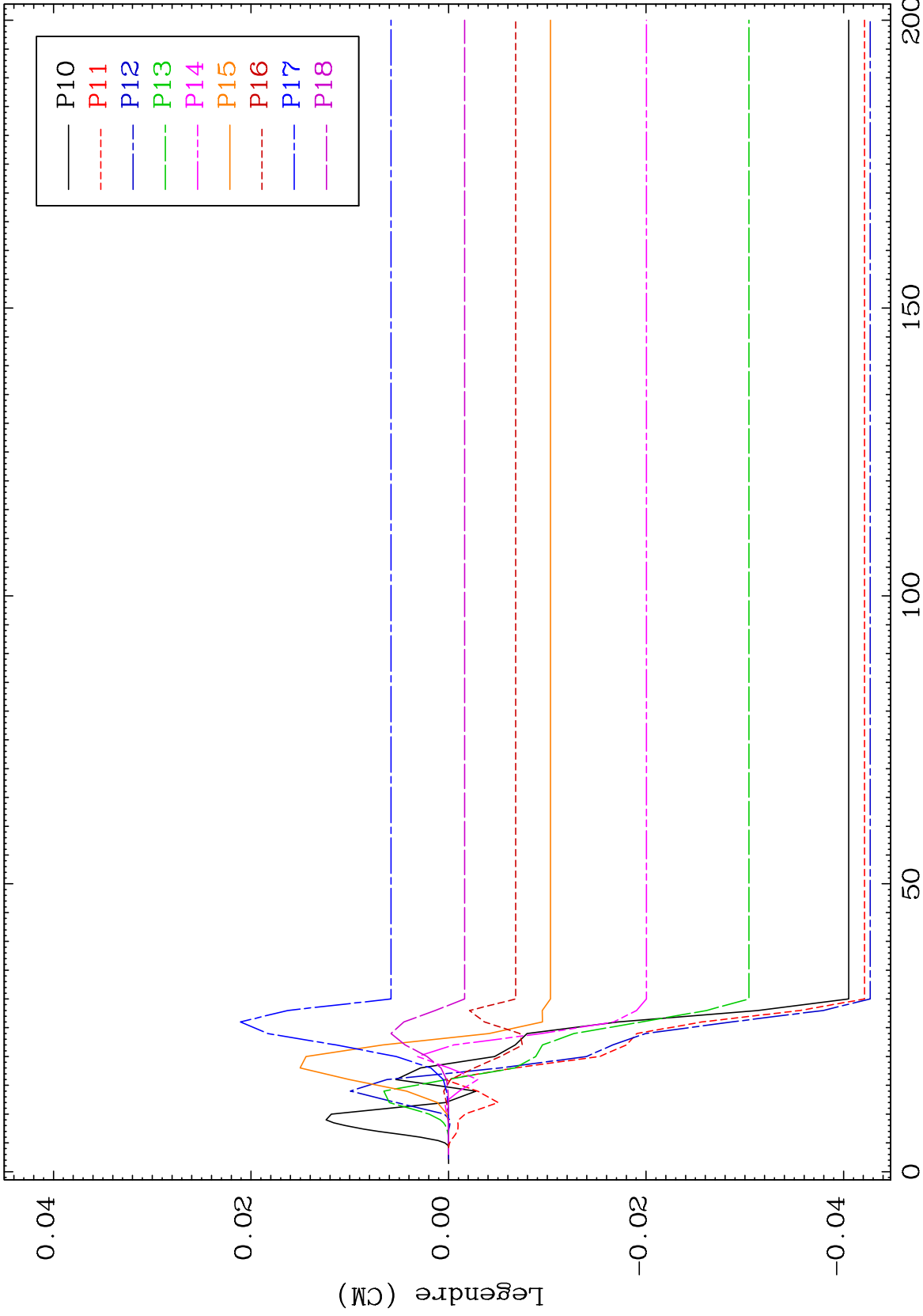
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 56 (n,n') Level
Legendre Coefficients

64-Gd-154



39

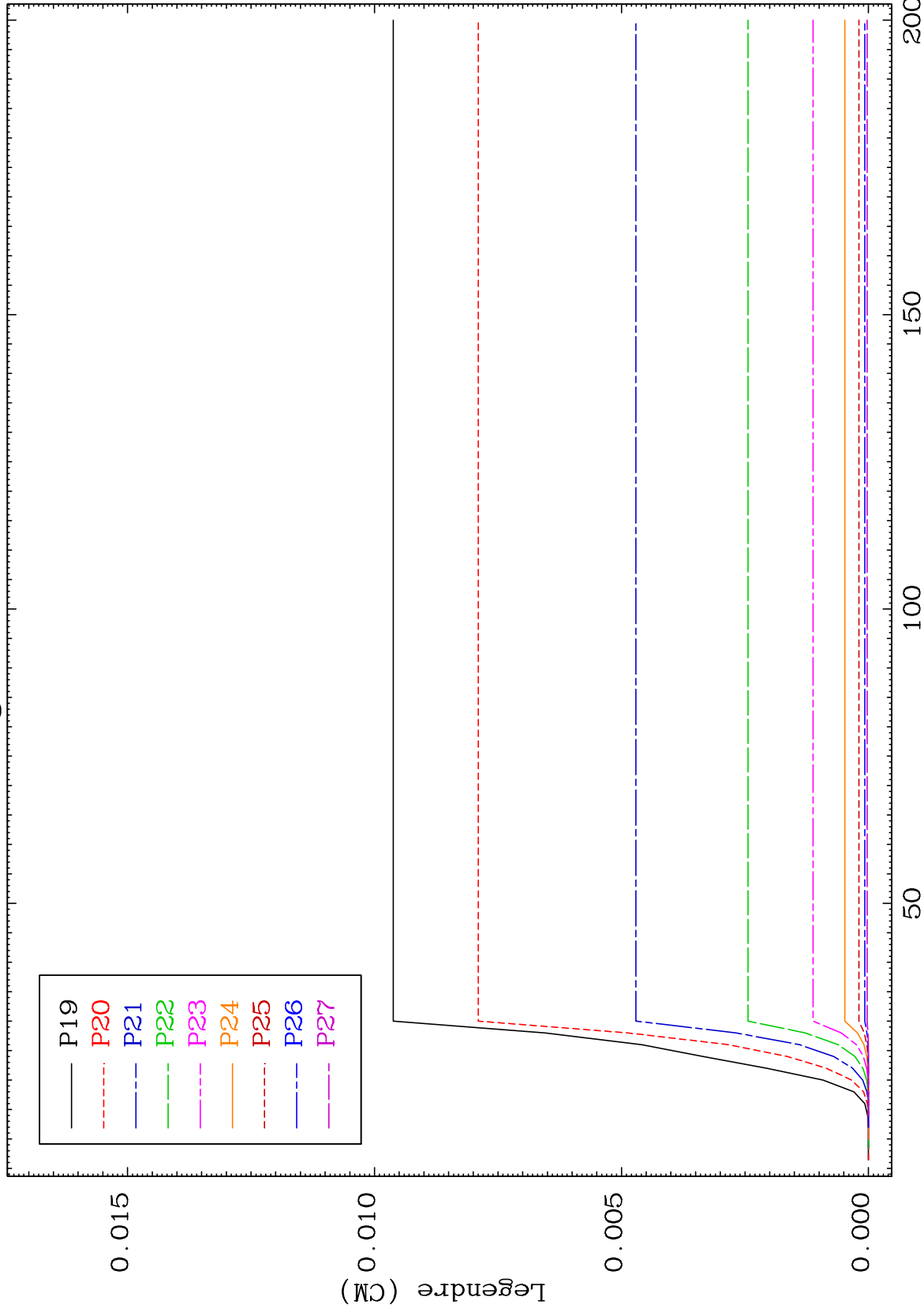
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 56 (n,n') Level
Legendre Coefficients

64-Gd-154



40

50

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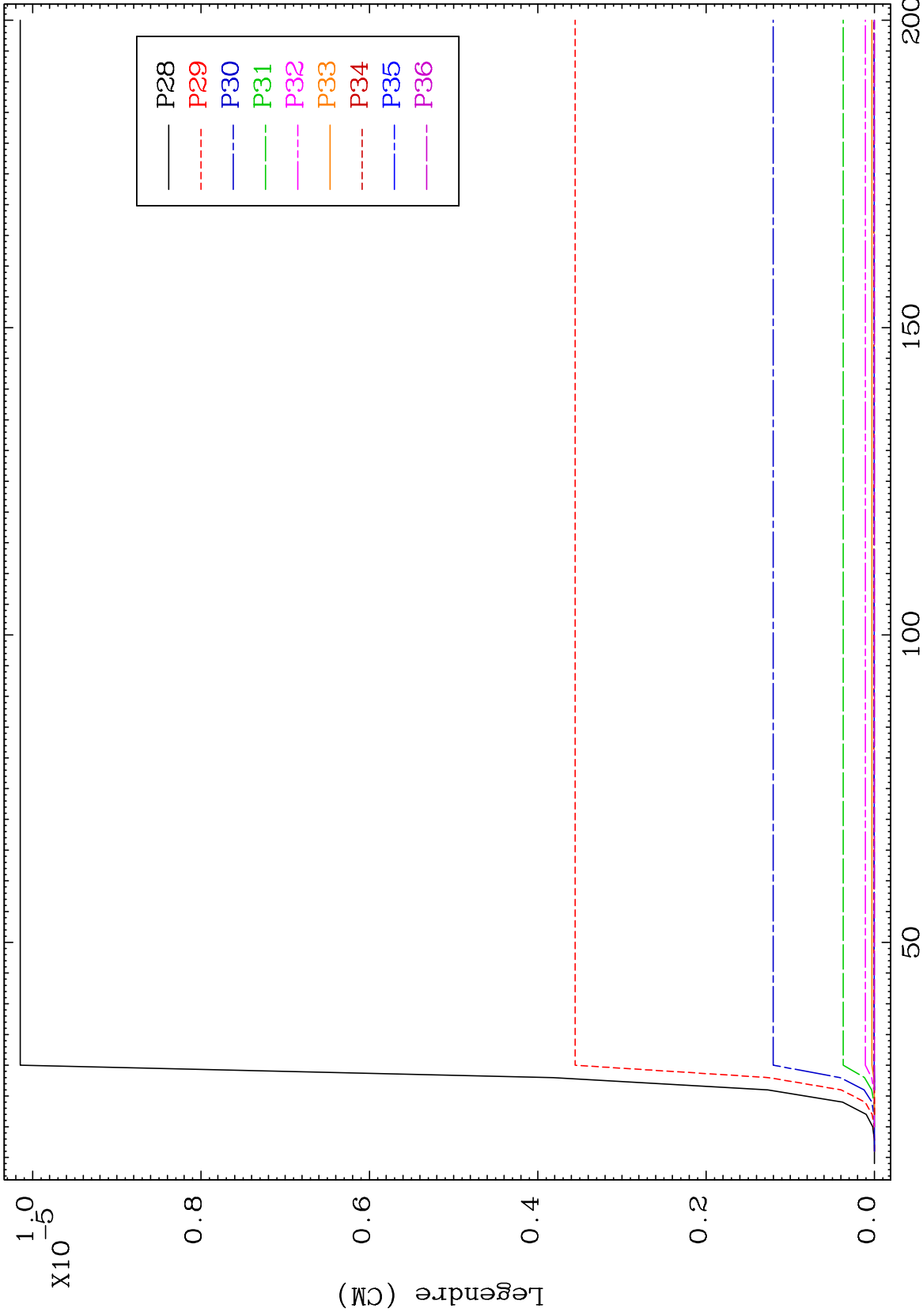
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MAT 6431

MT= 56 (n,n') Level
Legendre Coefficients

64-Gd-154



41

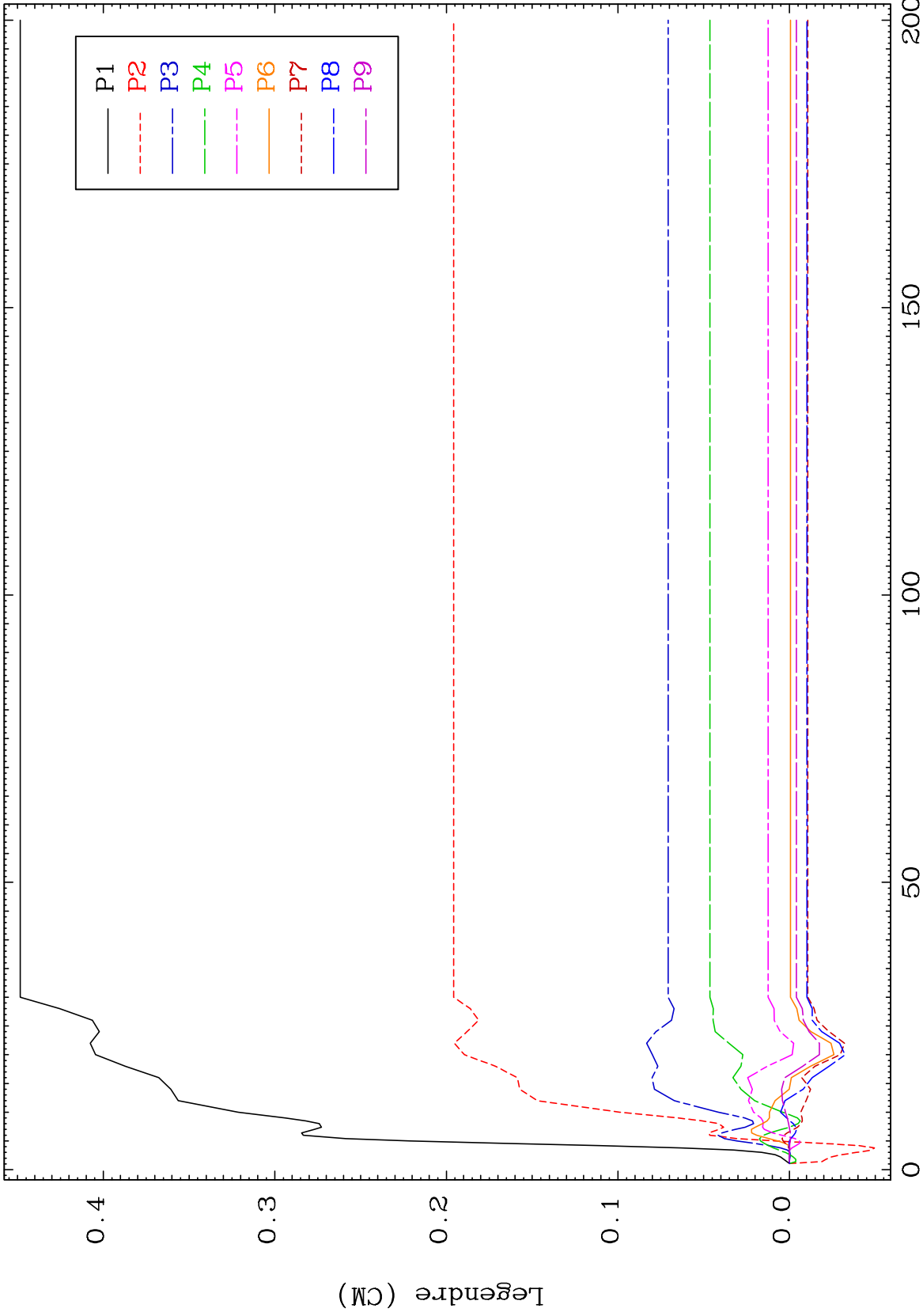
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 57 (n,n') Level
Legendre Coefficients

64-Gd-154

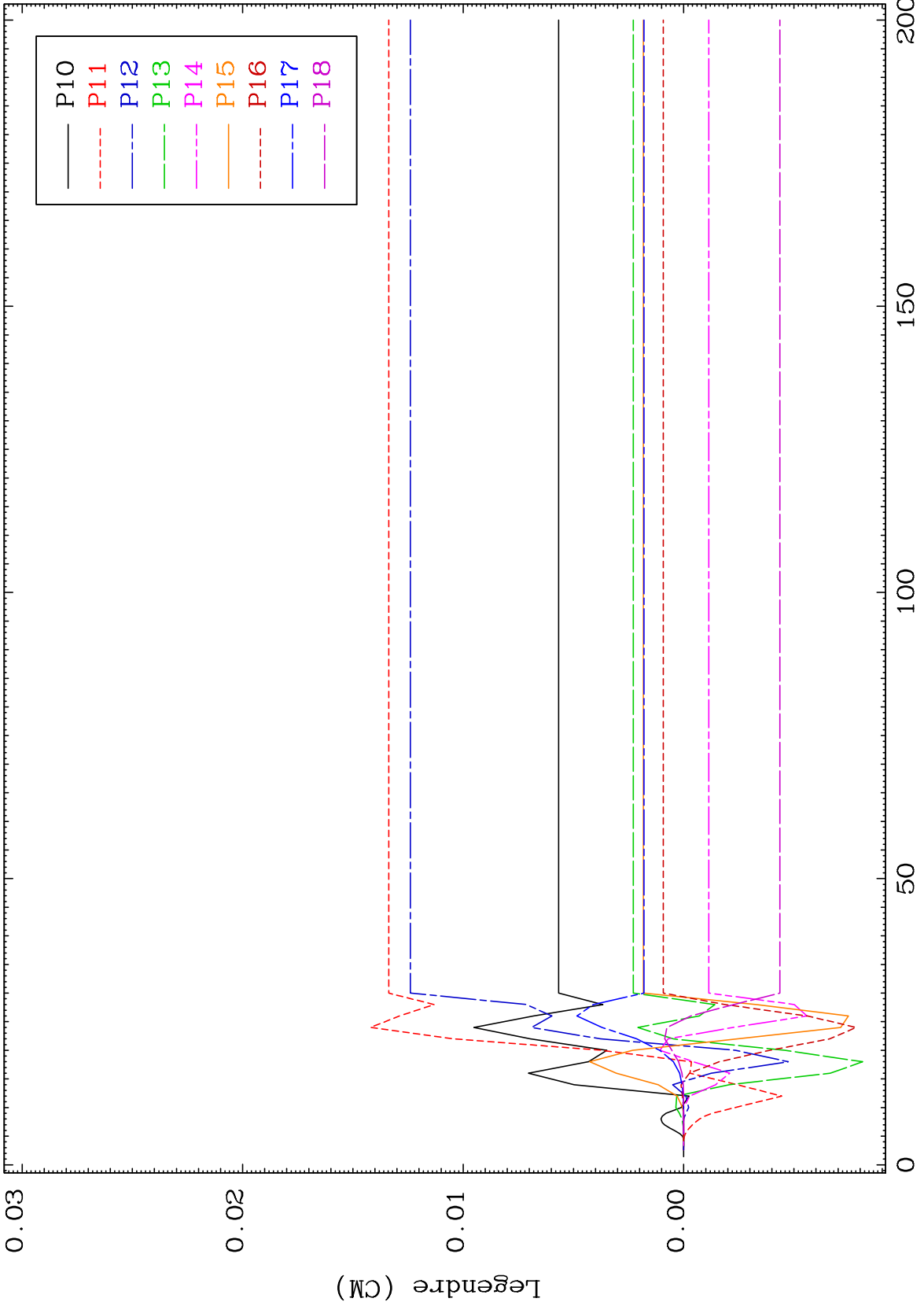


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Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 57 (n,n') Level Legendre Coefficients 64-Gd-154

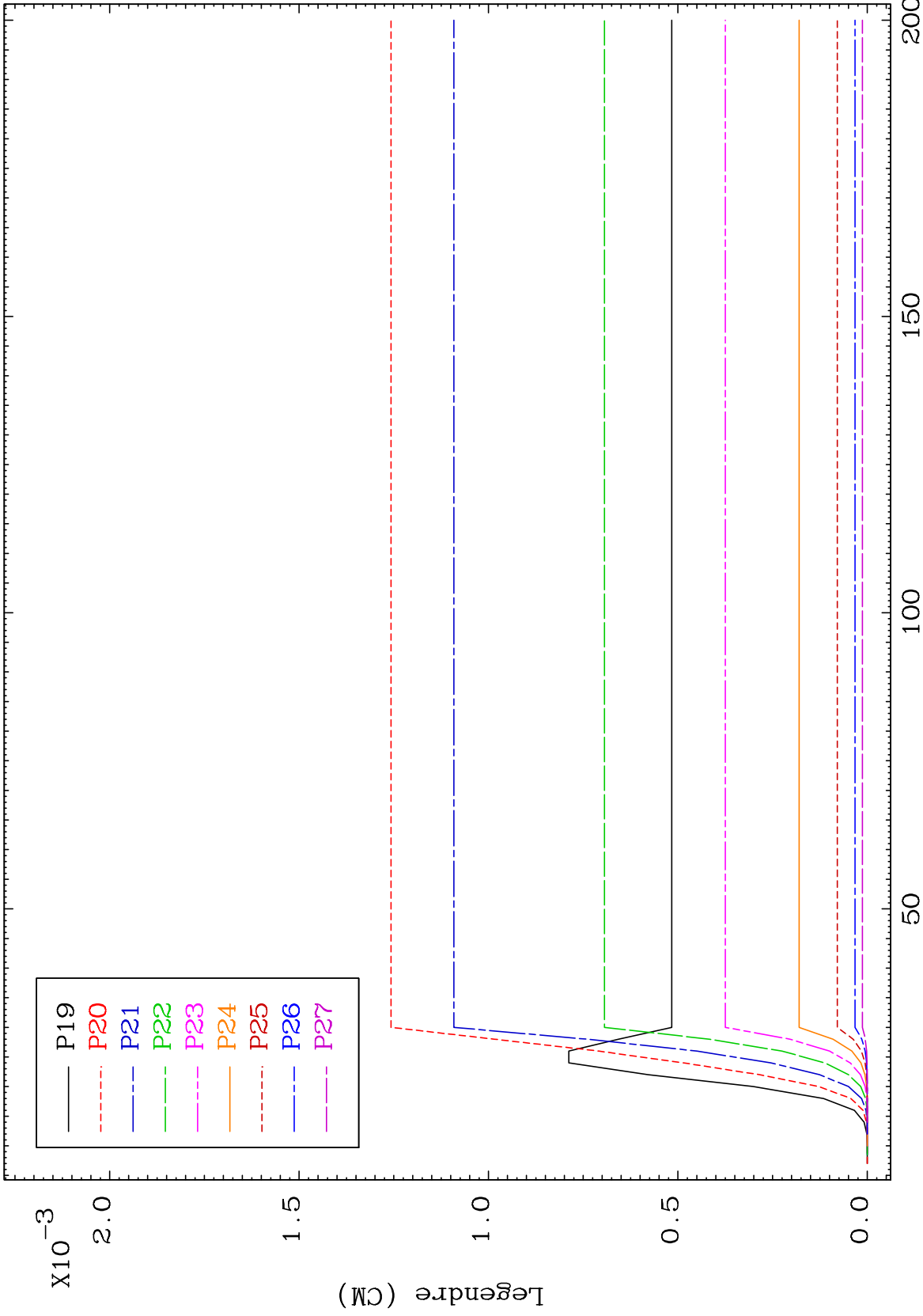


43 64-Gd-154

MAT 6431

MT= 57 (n,n') Level
Legendre Coefficients

64-Gd-154



44

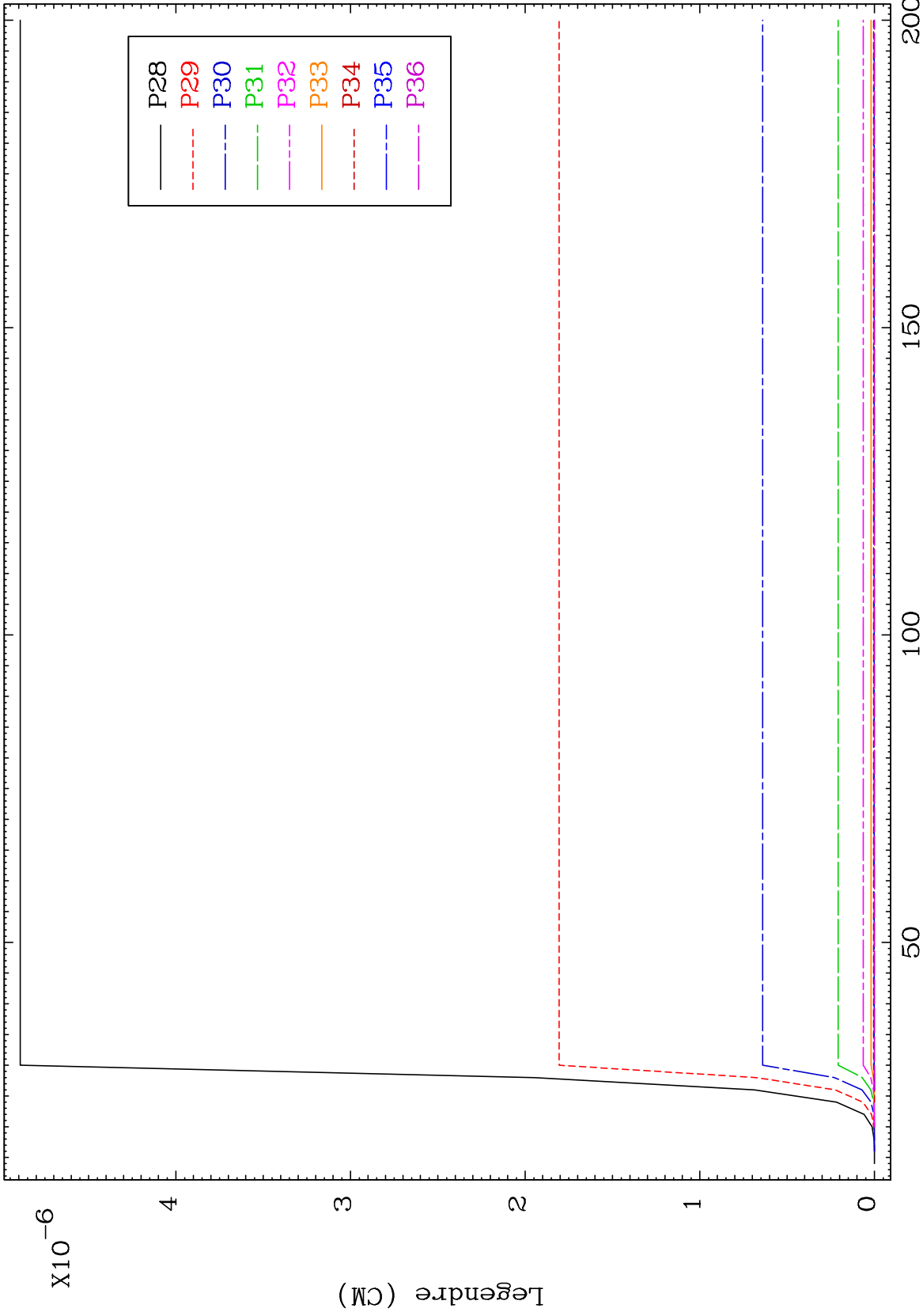
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 57 (n,n') Level
Legendre Coefficients

64-Gd-154

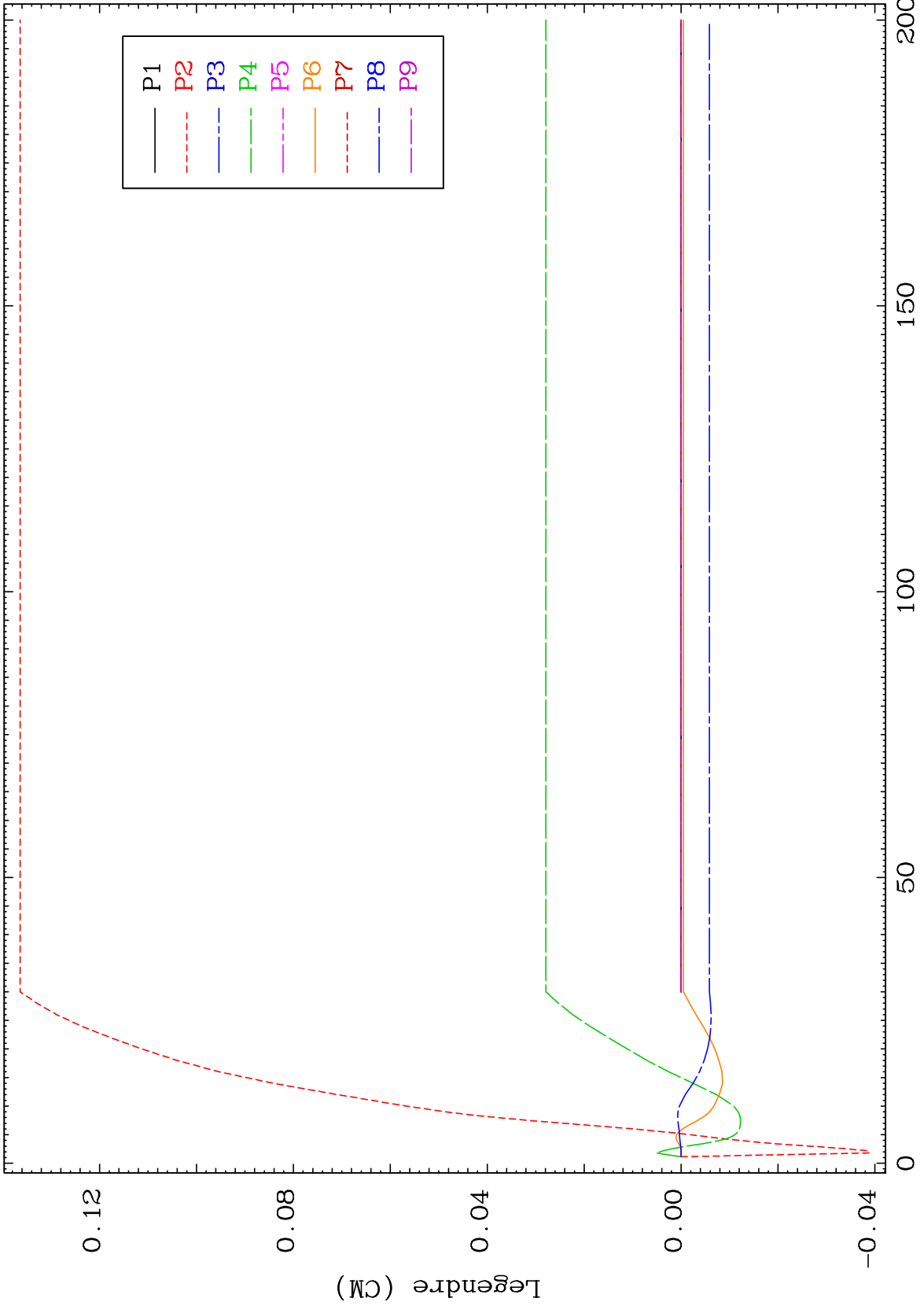


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Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 58 (n,n') Level Legendre Coefficients 64-Gd-154

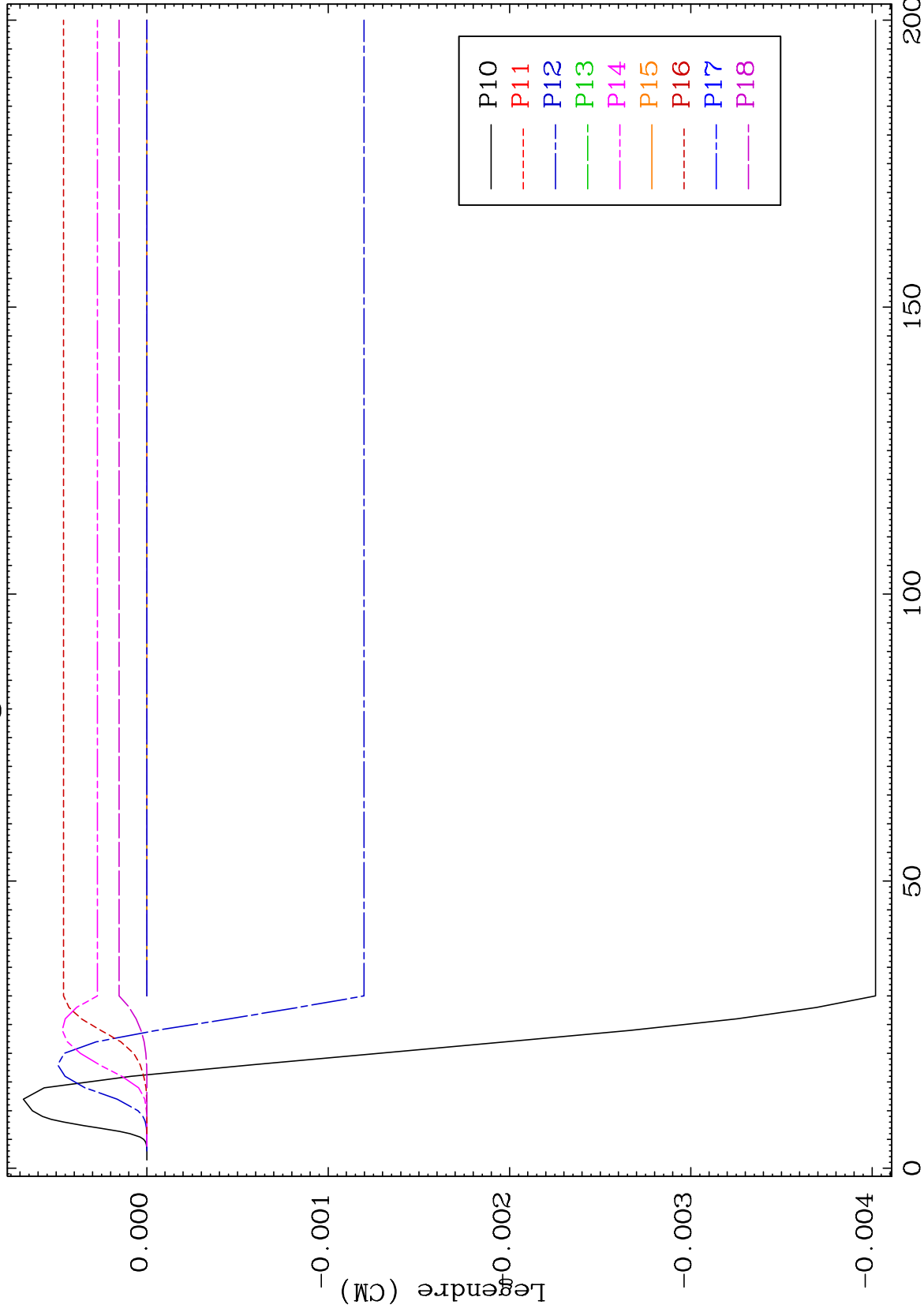


46 64-Gd-154

MAT 6431

MT= 58 (n,n') Level
Legendre Coefficients

64-Gd-154

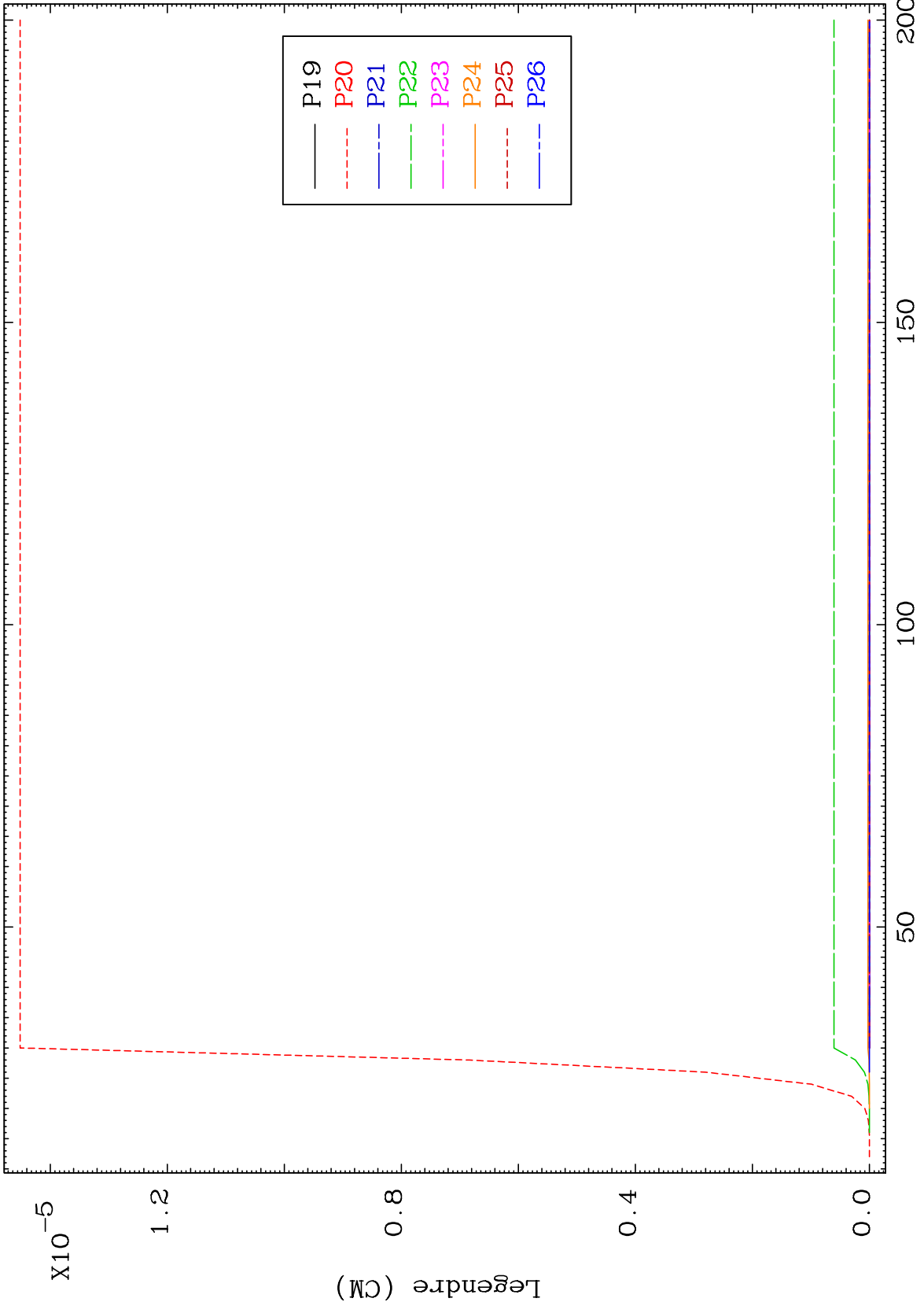


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Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 58 (n,n') Level Legendre Coefficients 64-Gd-154

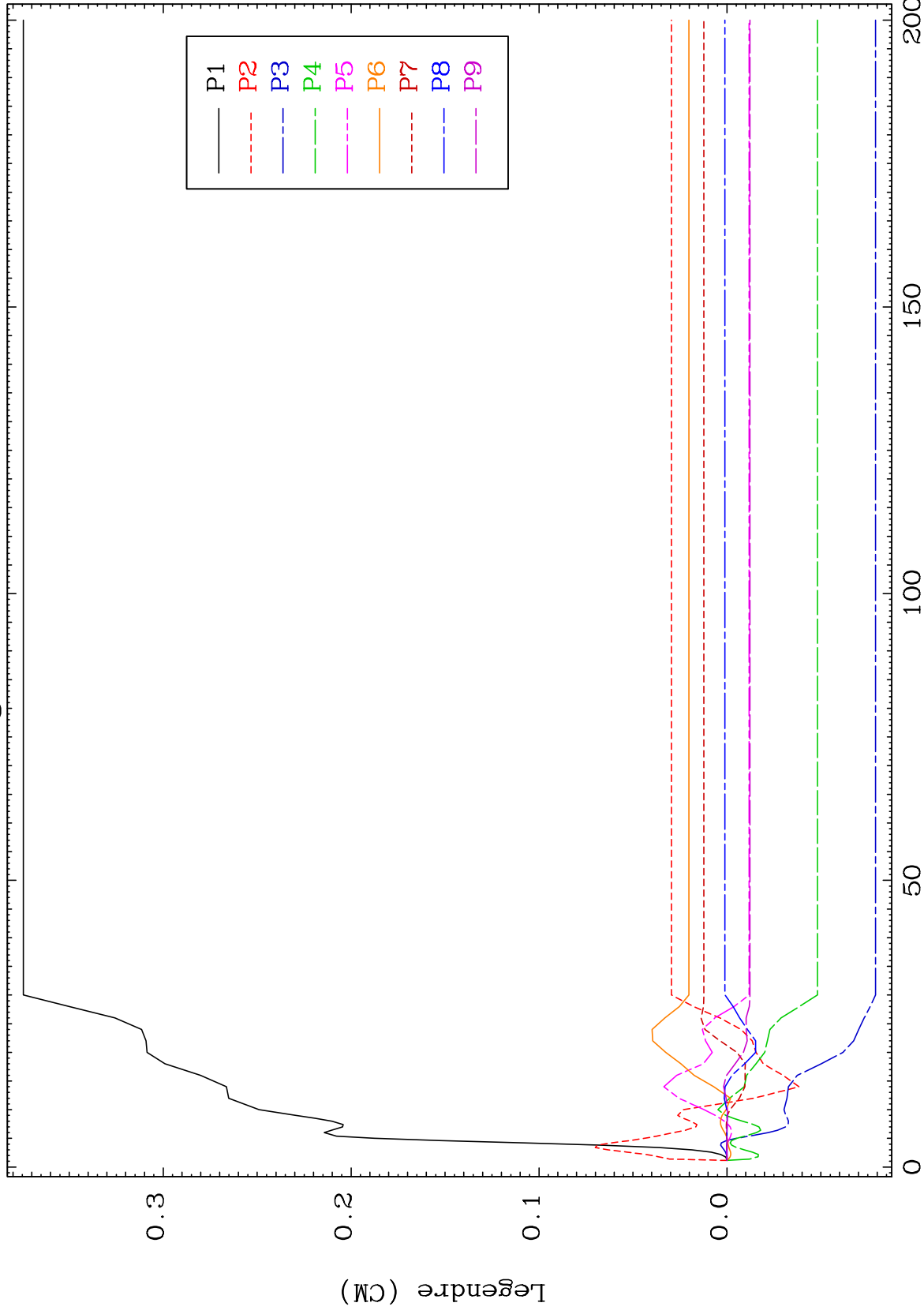


48 Incident Energy (MeV) 64-Gd-154

MAT 6431

MT= 59 (n,n') Level
Legendre Coefficients

64-Gd-154



49

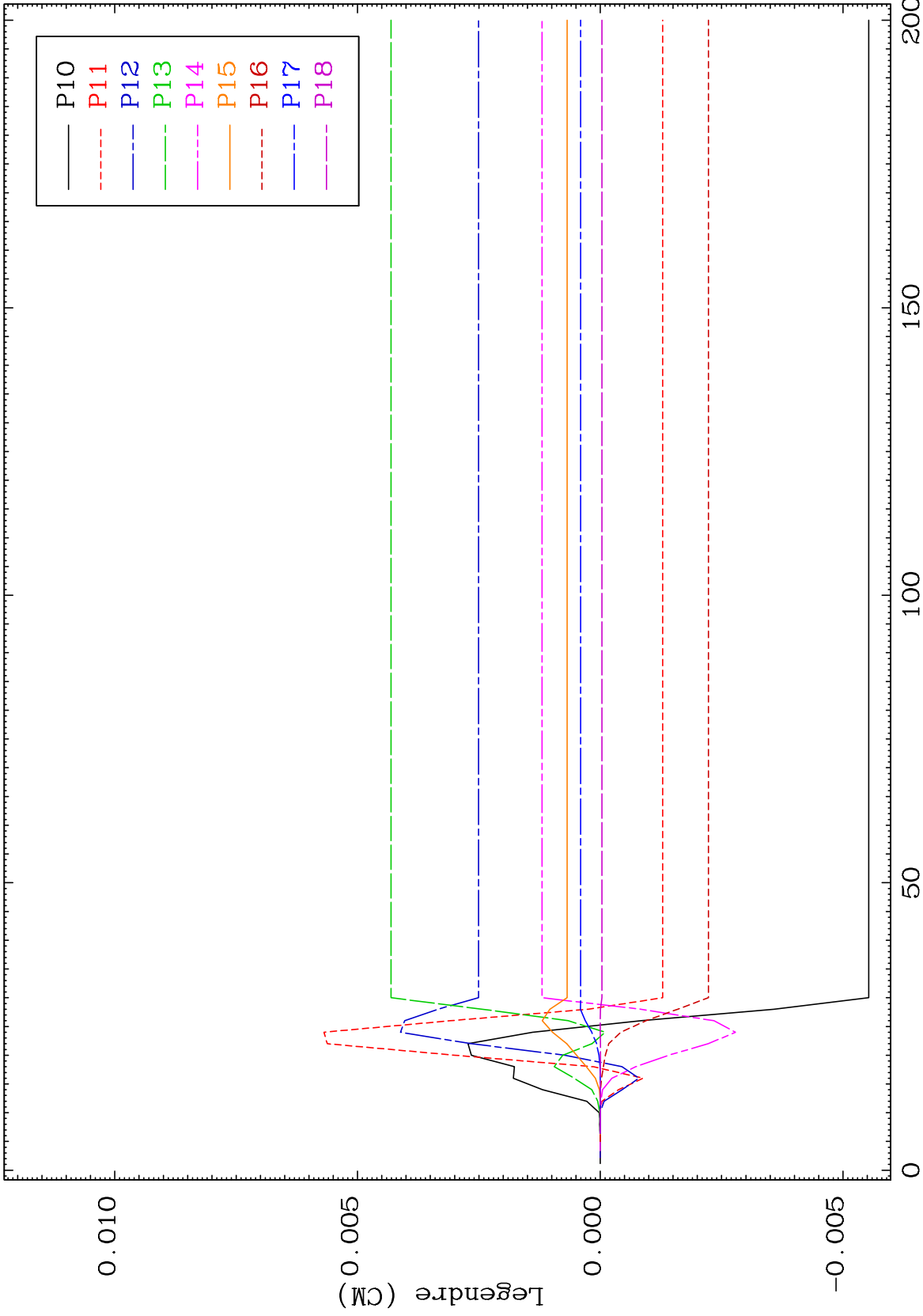
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 59 (n,n') Level
Legendre Coefficients

64-Gd-154



0

50

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150

200

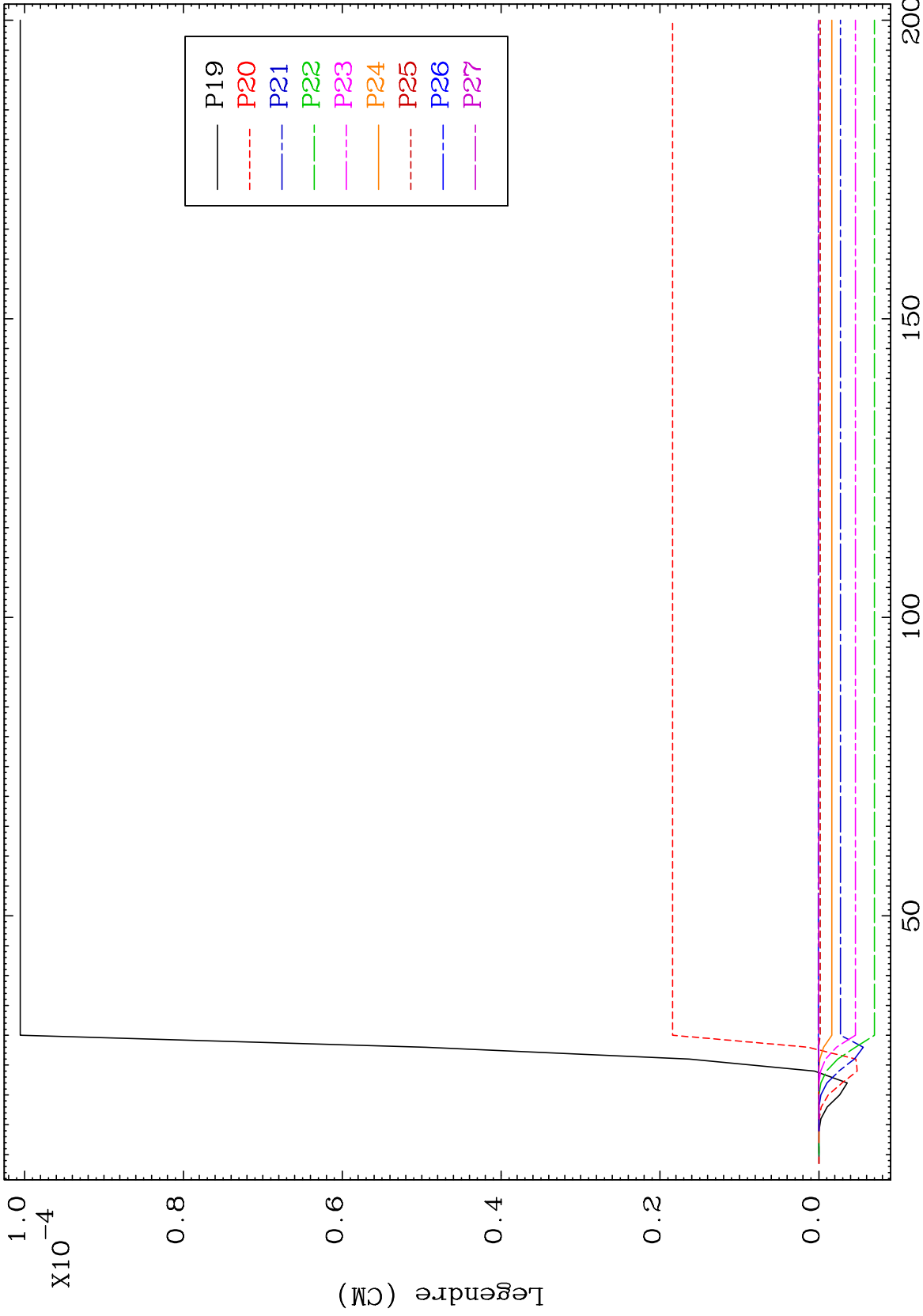
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 59 (n,n') Level
Legendre Coefficients

64-Gd-154



51

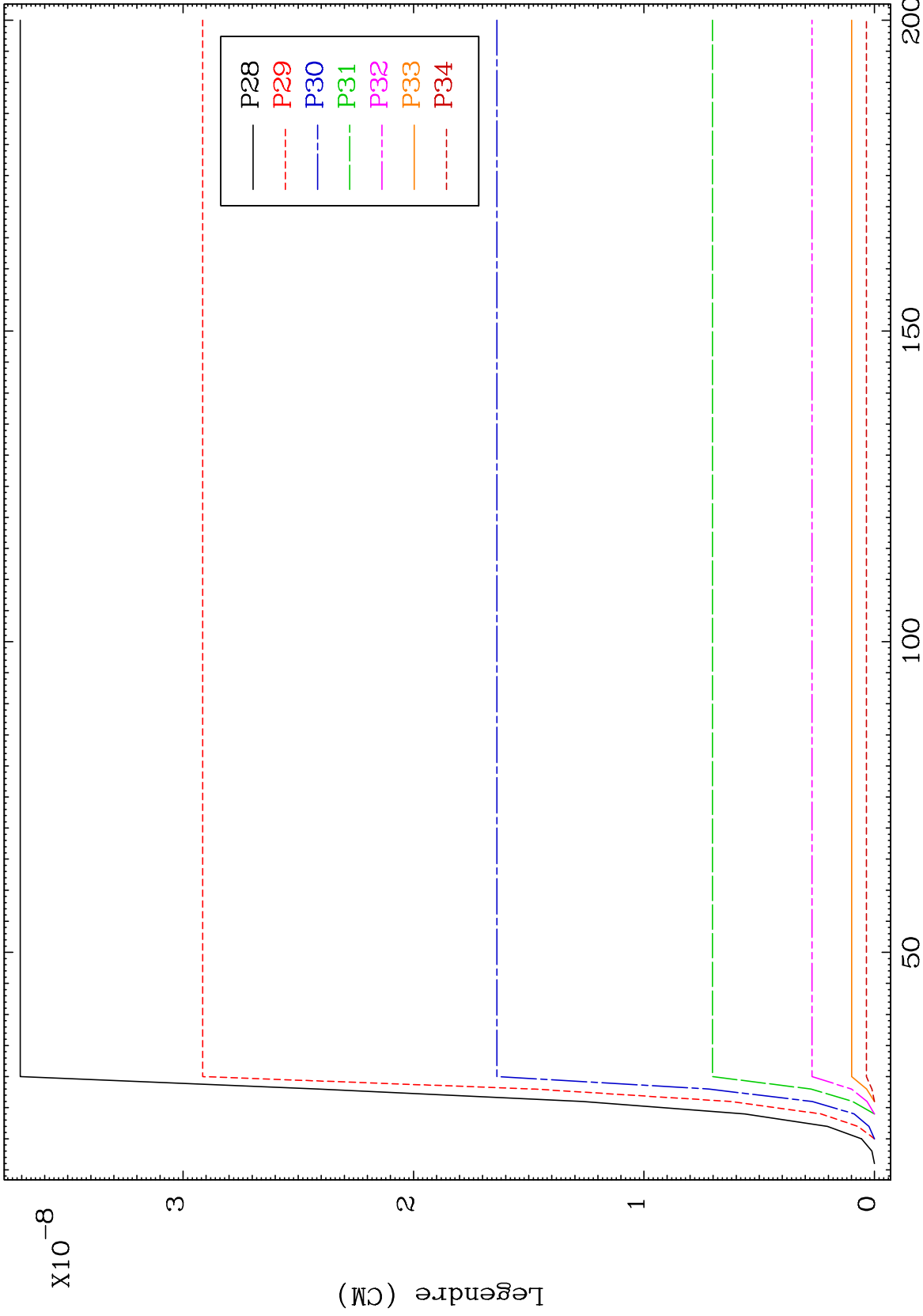
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 59 (n,n') Level
Legendre Coefficients

64-Gd-154

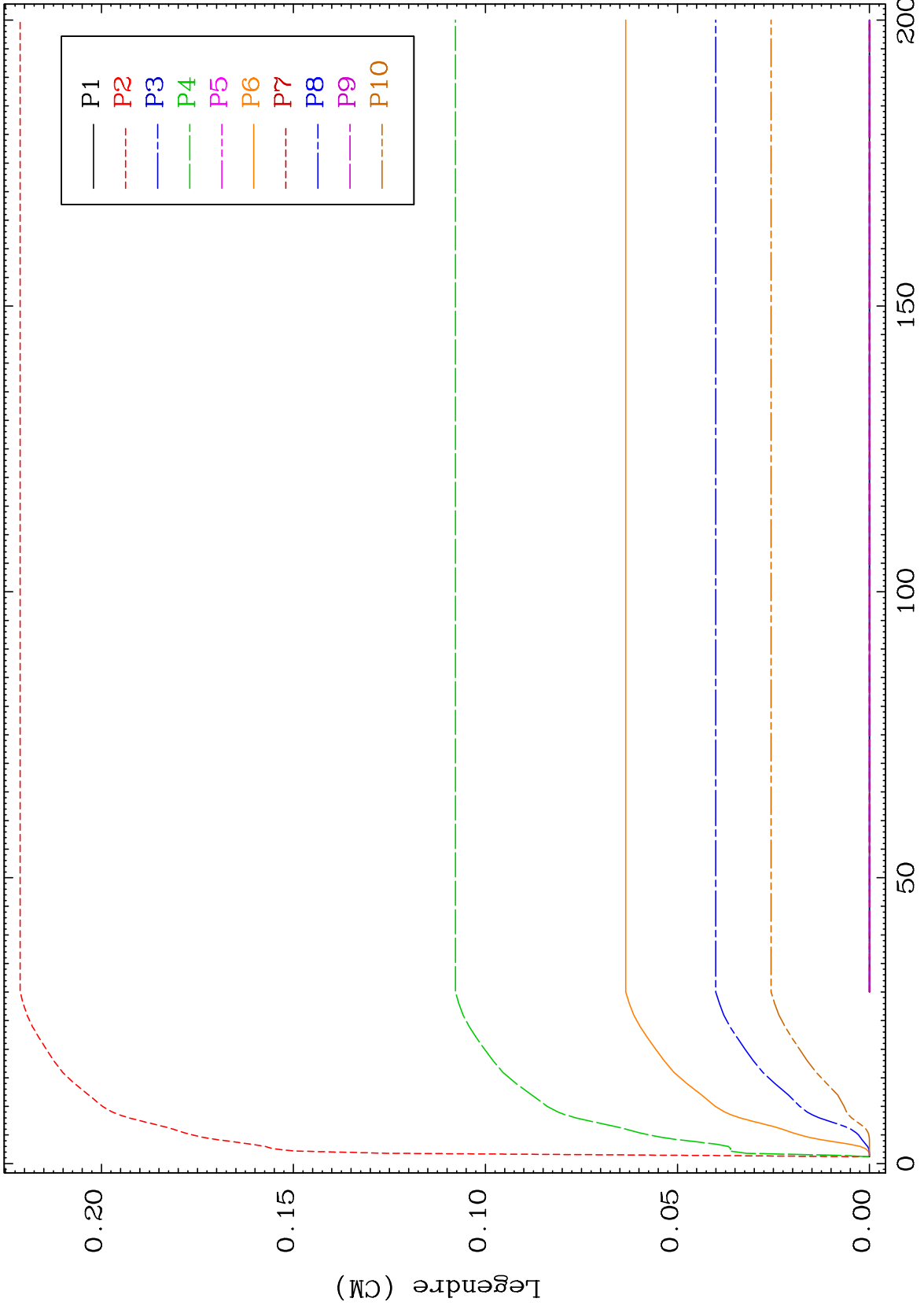


52

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 60 (n,n') Level Legendre Coefficients 64-Gd-154

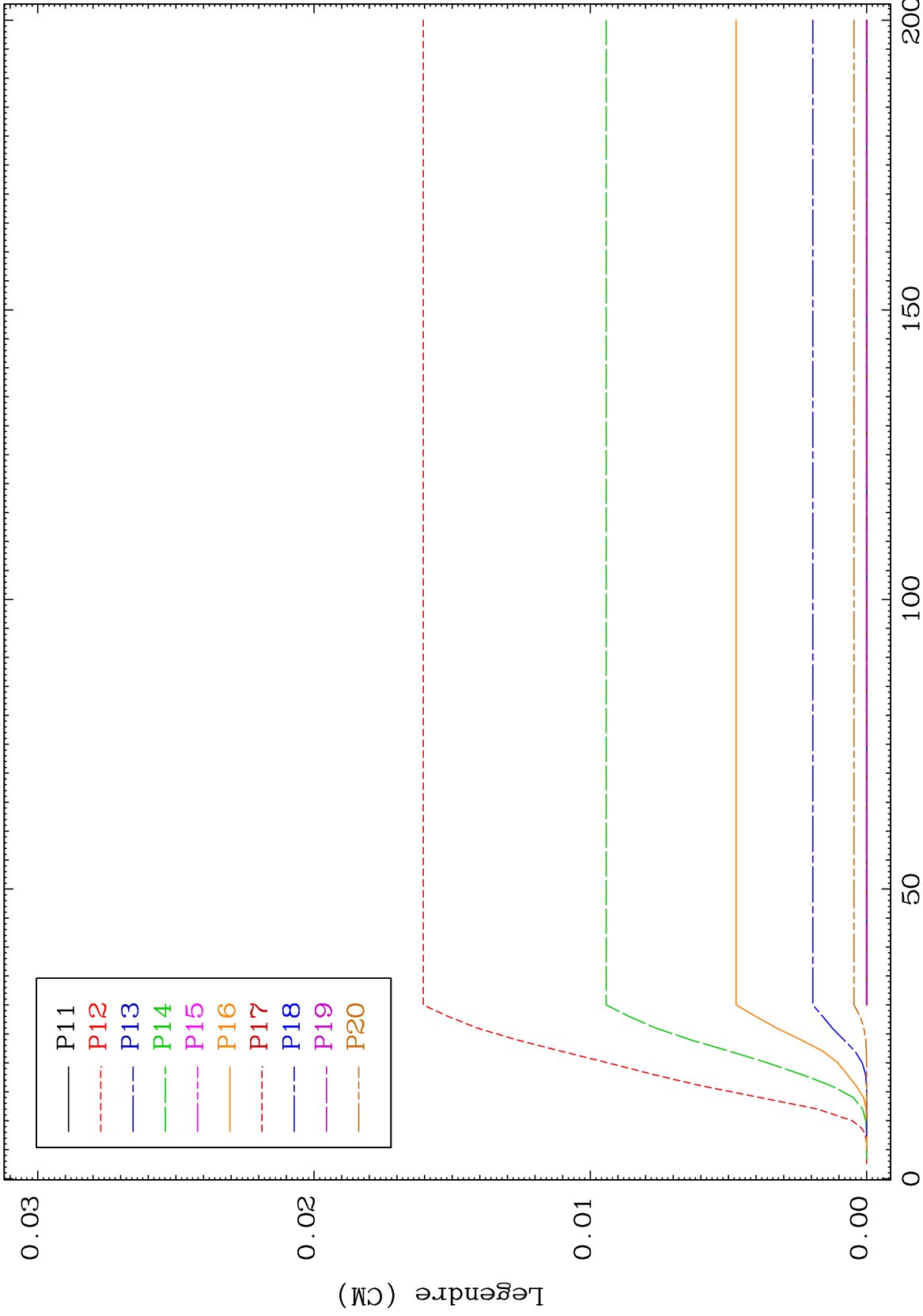


53 64-Gd-154

MAT 6431

MT= 60 (n,n') Level
Legendre Coefficients

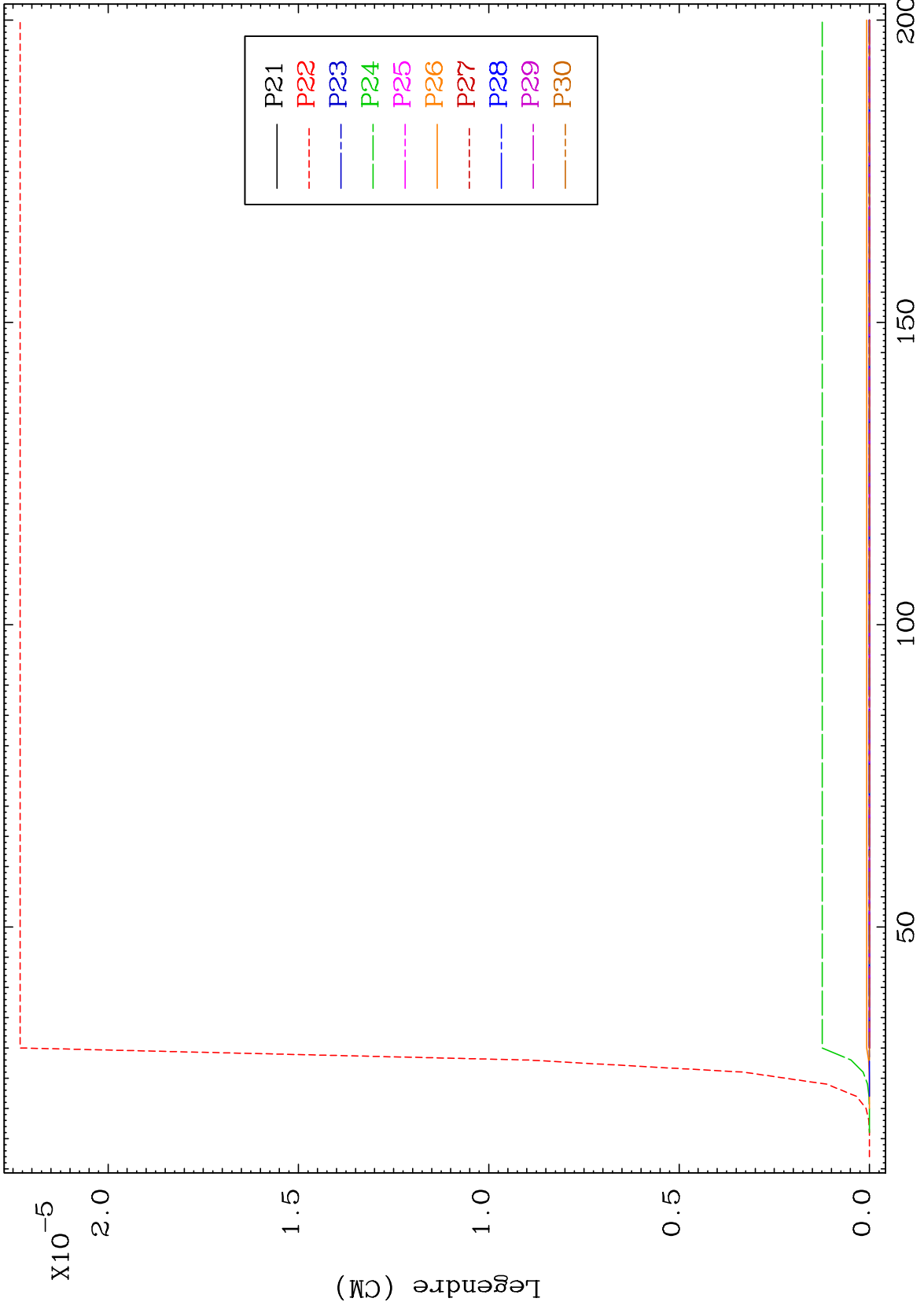
64-Gd-154



54

64-Gd-154

MAT 6431 MT= 60 (n,n') Level Legendre Coefficients 64-Gd-154

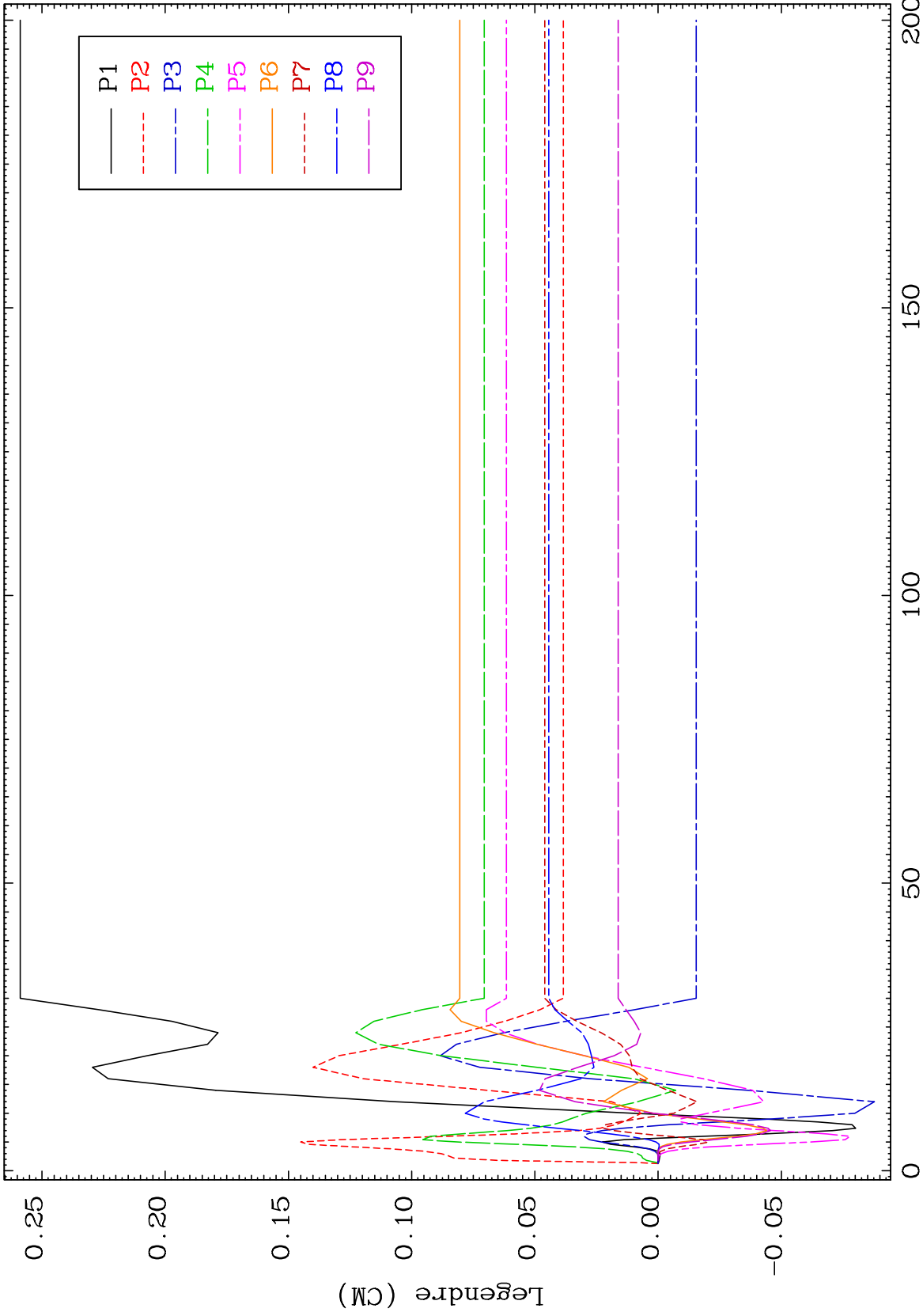


64-Gd-154

MAT 6431

MT= 61 (n,n') Level
Legendre Coefficients

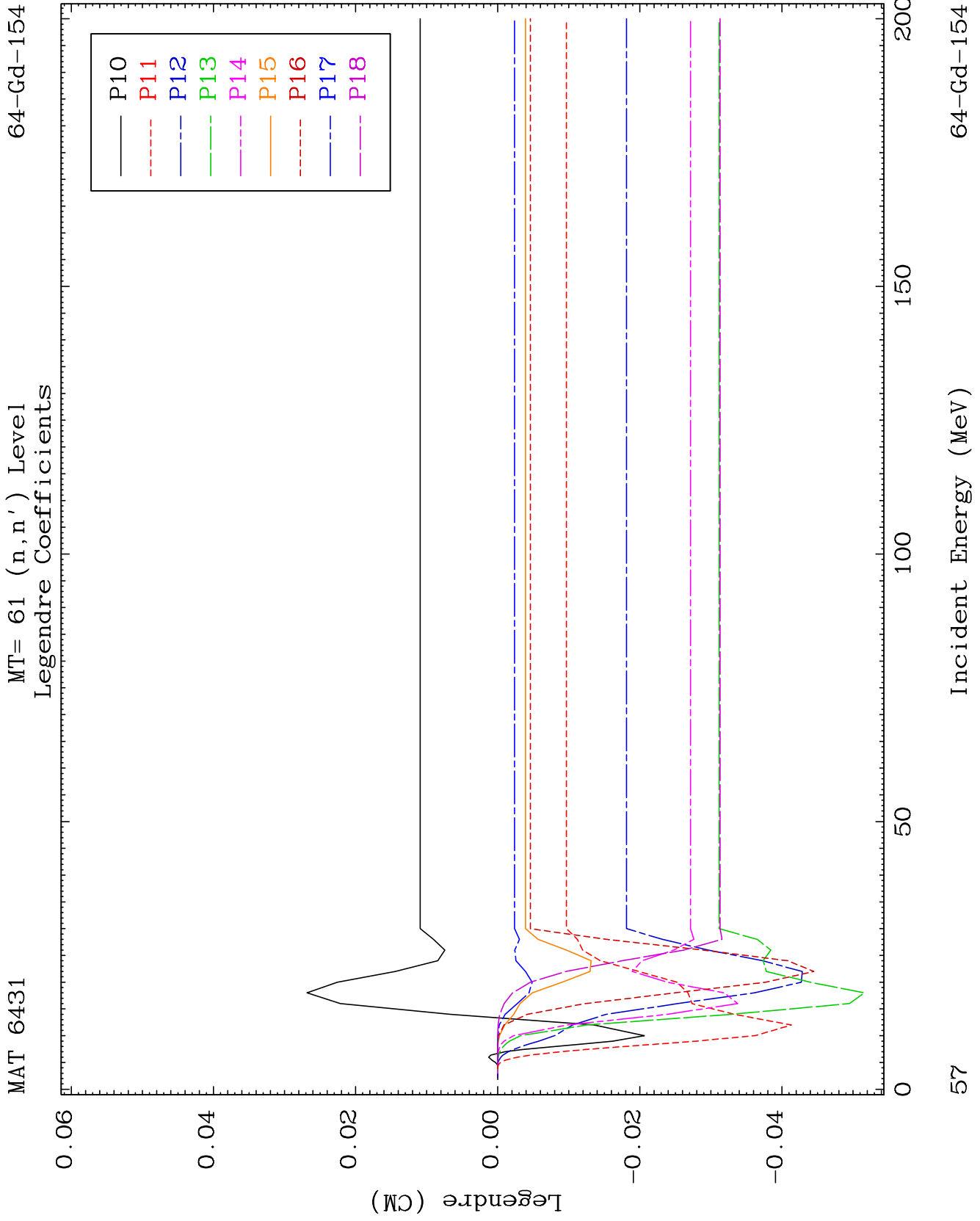
64-Gd-154



56

Incident Energy (MeV)

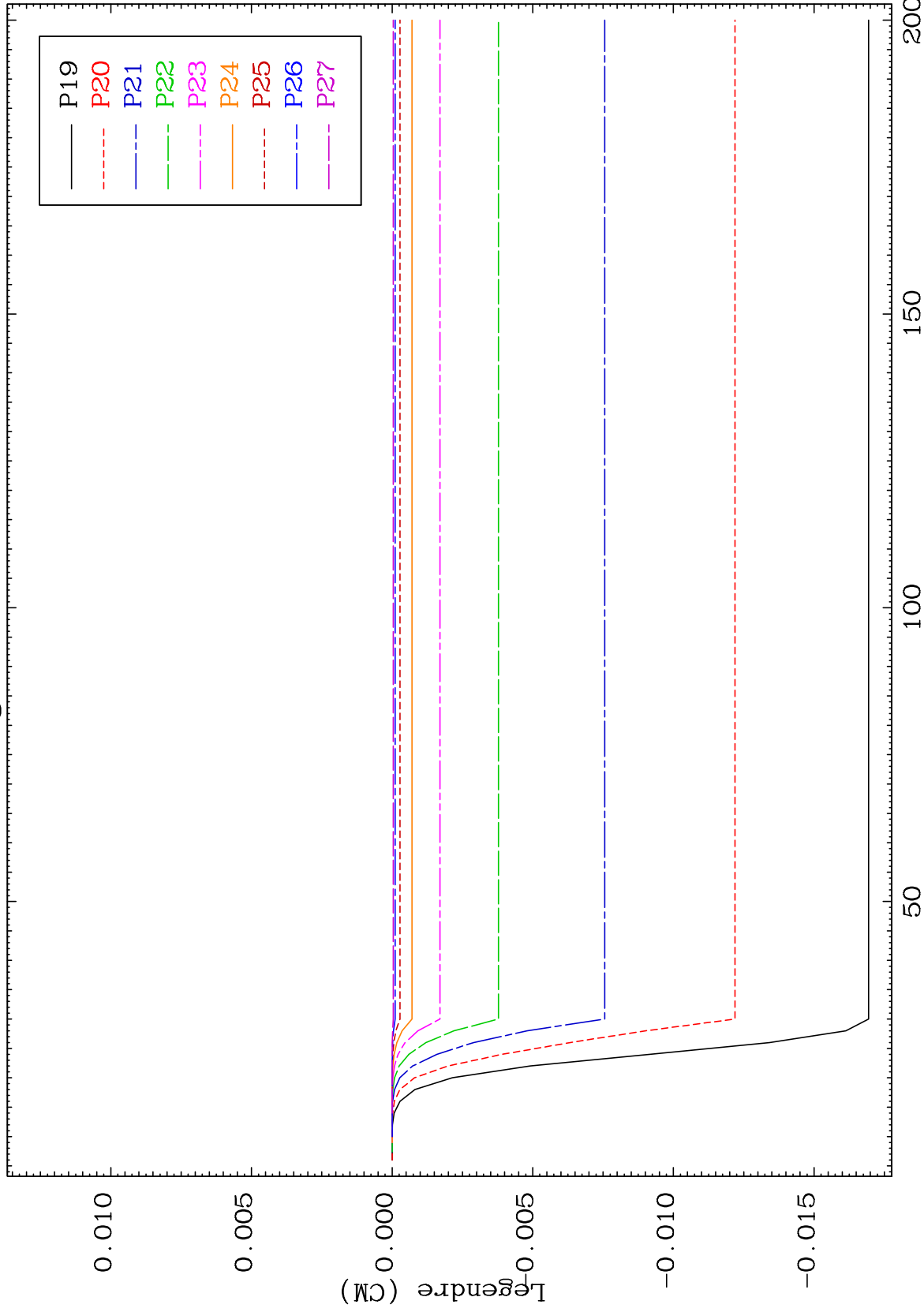
64-Gd-154



MAT 6431

MT= 61 (n,n') Level
Legendre Coefficients

64-Gd-154



58

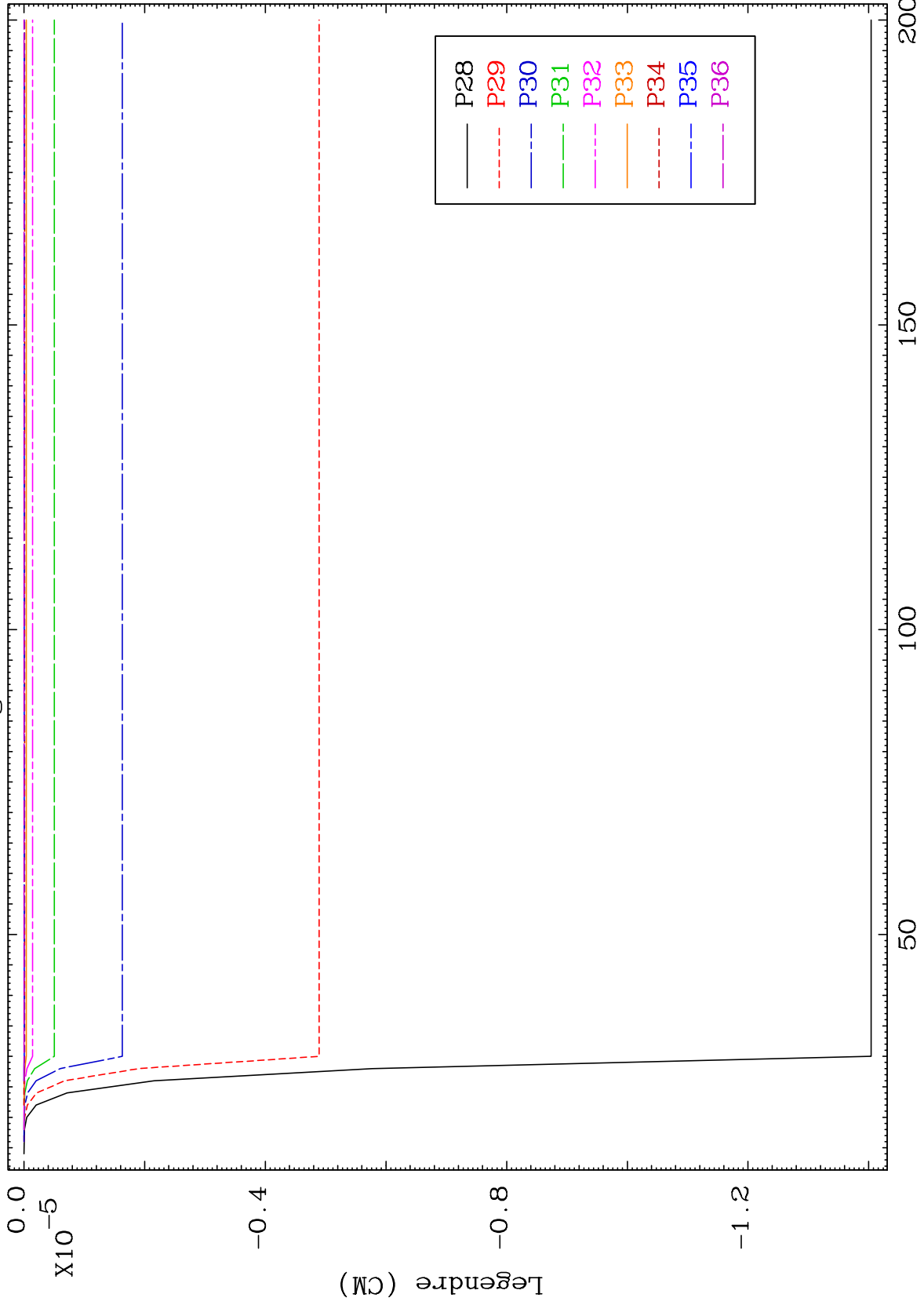
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 61 (n,n') Level
Legendre Coefficients

64-Gd-154



64-Gd-154

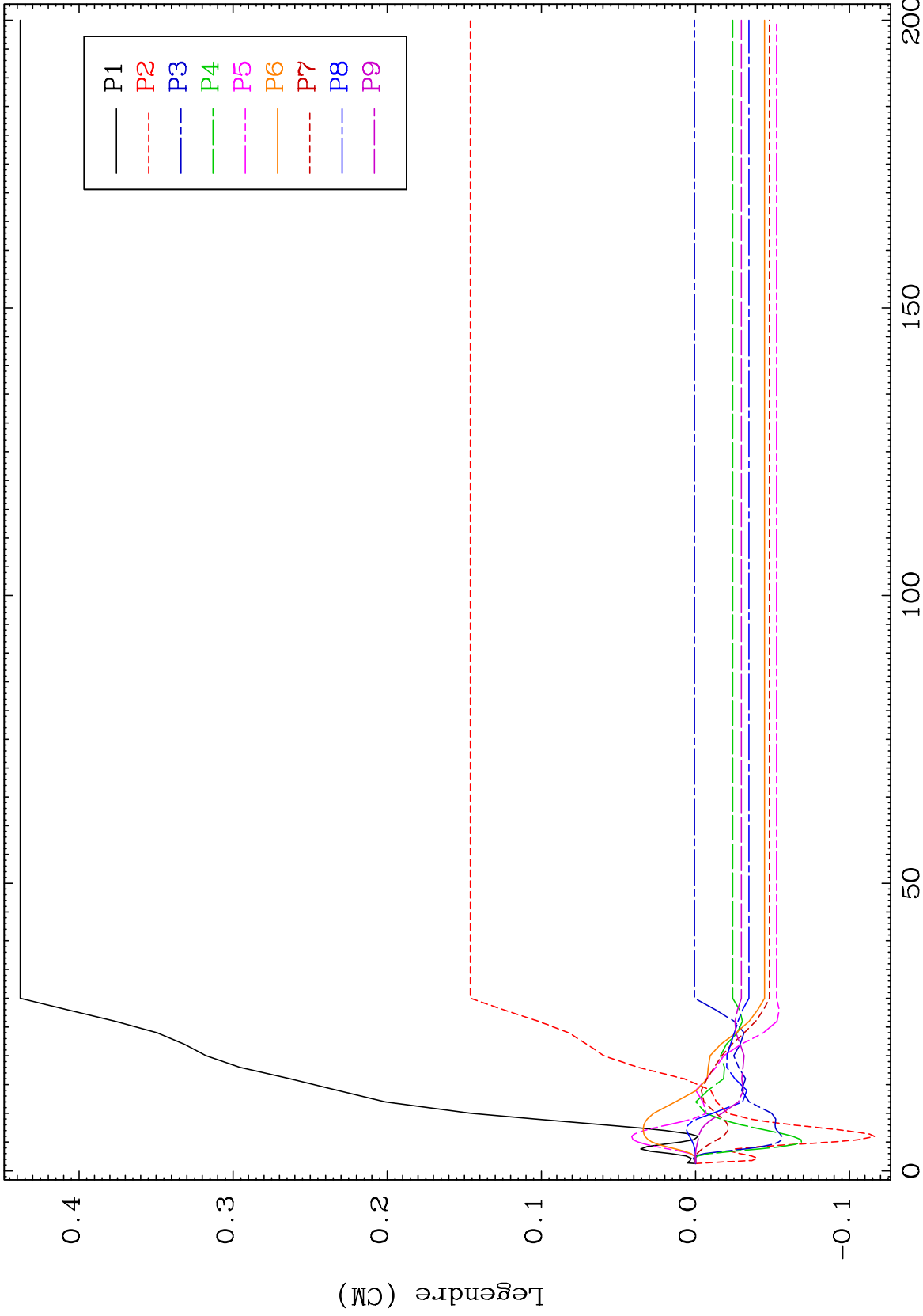
Incident Energy (MeV)

59

MAT 6431

MT= 62 (n,n') Level
Legendre Coefficients

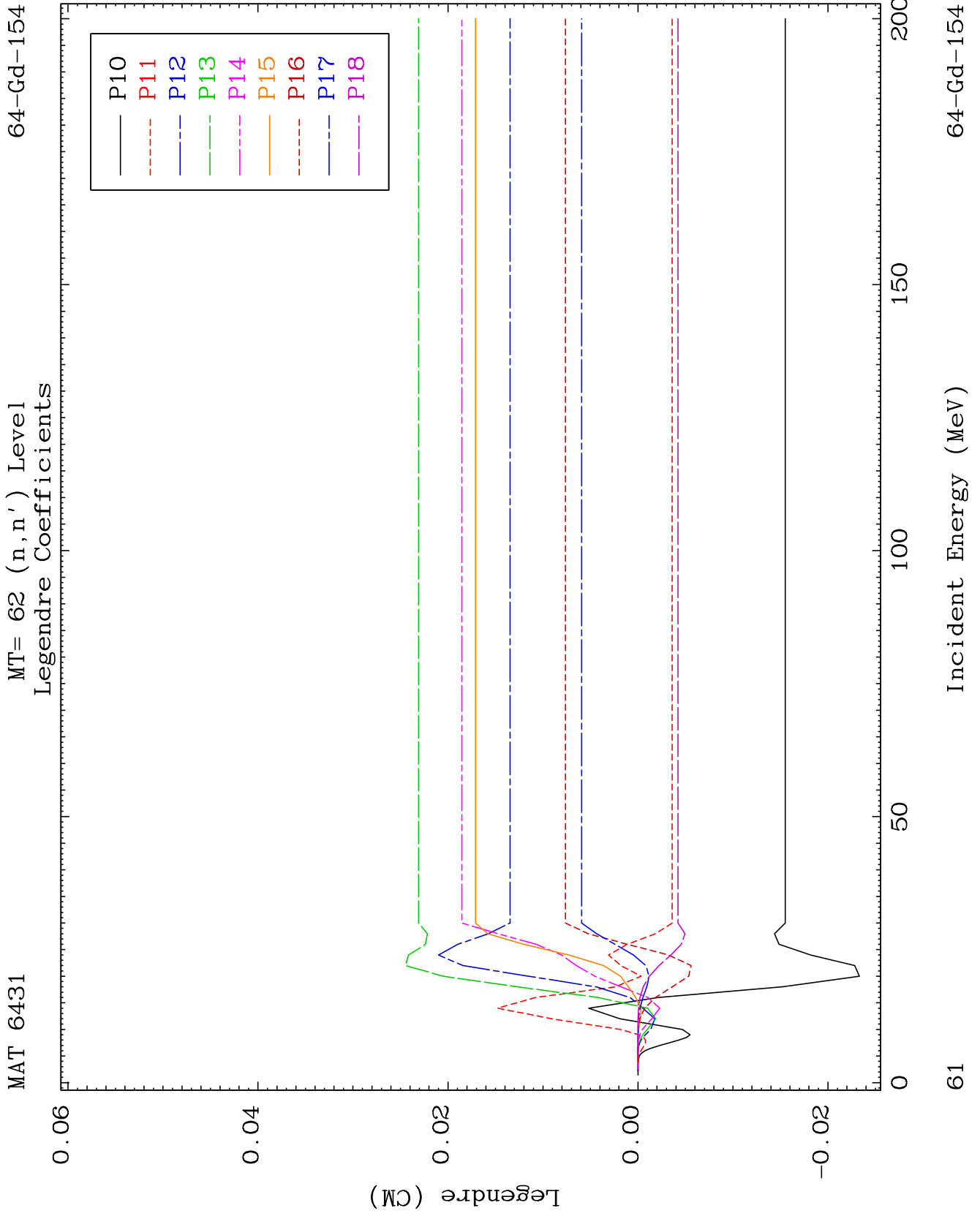
64-Gd-154



64-Gd-154

Incident Energy (MeV)

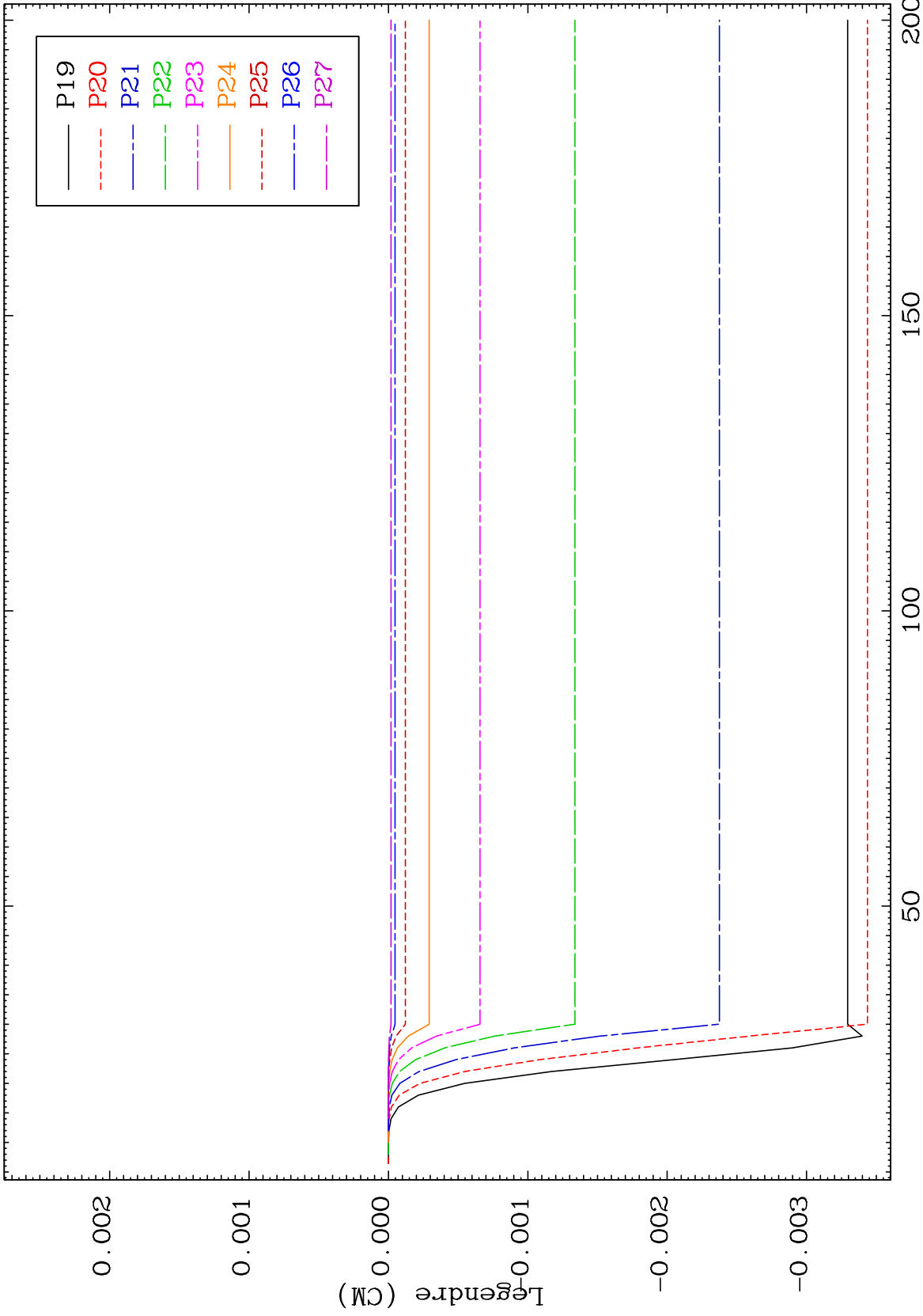
60



MAT 6431

MT= 62 (n,n') Level
Legendre Coefficients

64-Gd-154



62

Incident Energy (MeV)

64-Gd-154

MAT 6431

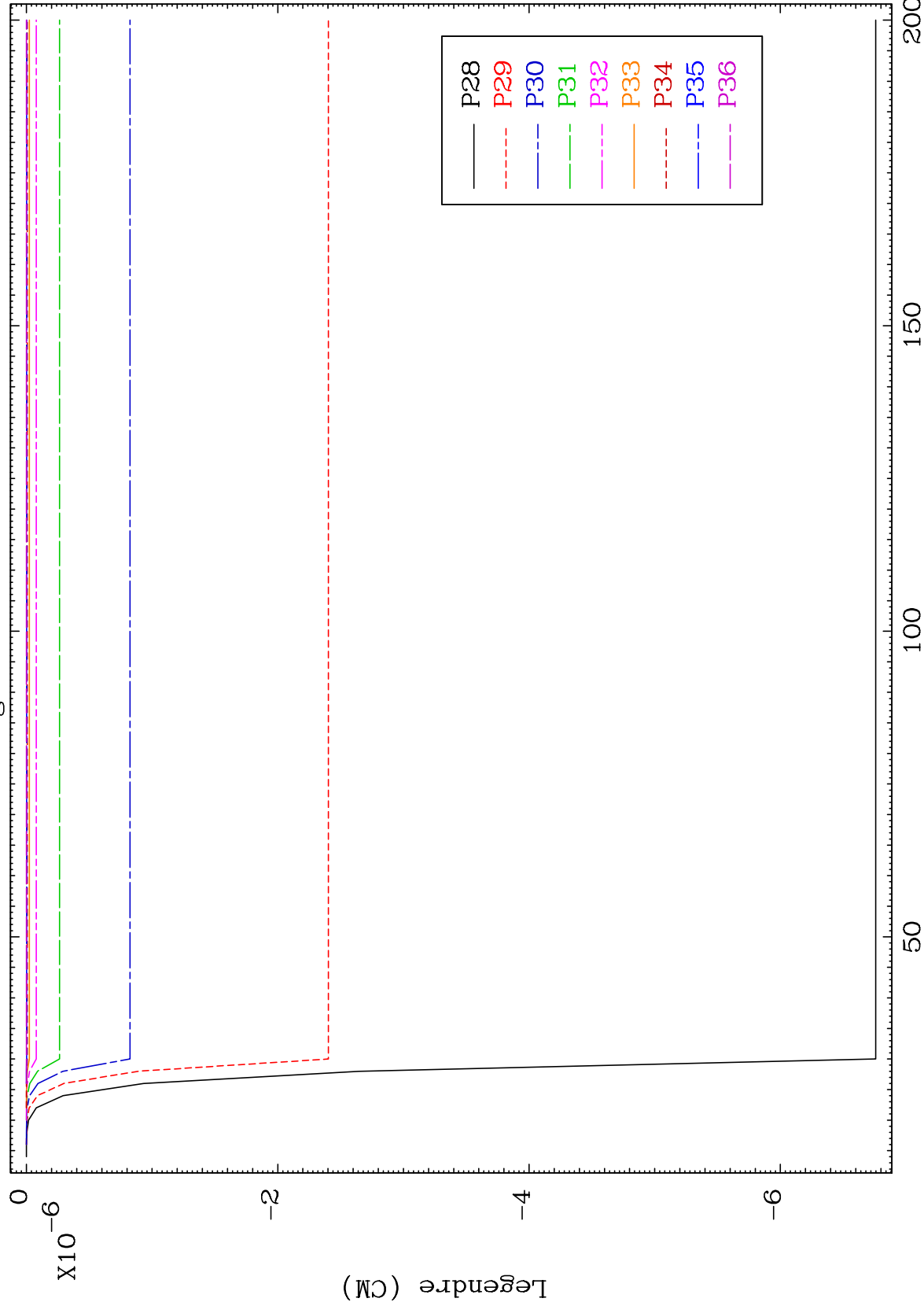
MT= 62 (n,n') Level
Legendre Coefficients

64-Gd-154

64-Gd-154

Incident Energy (MeV)

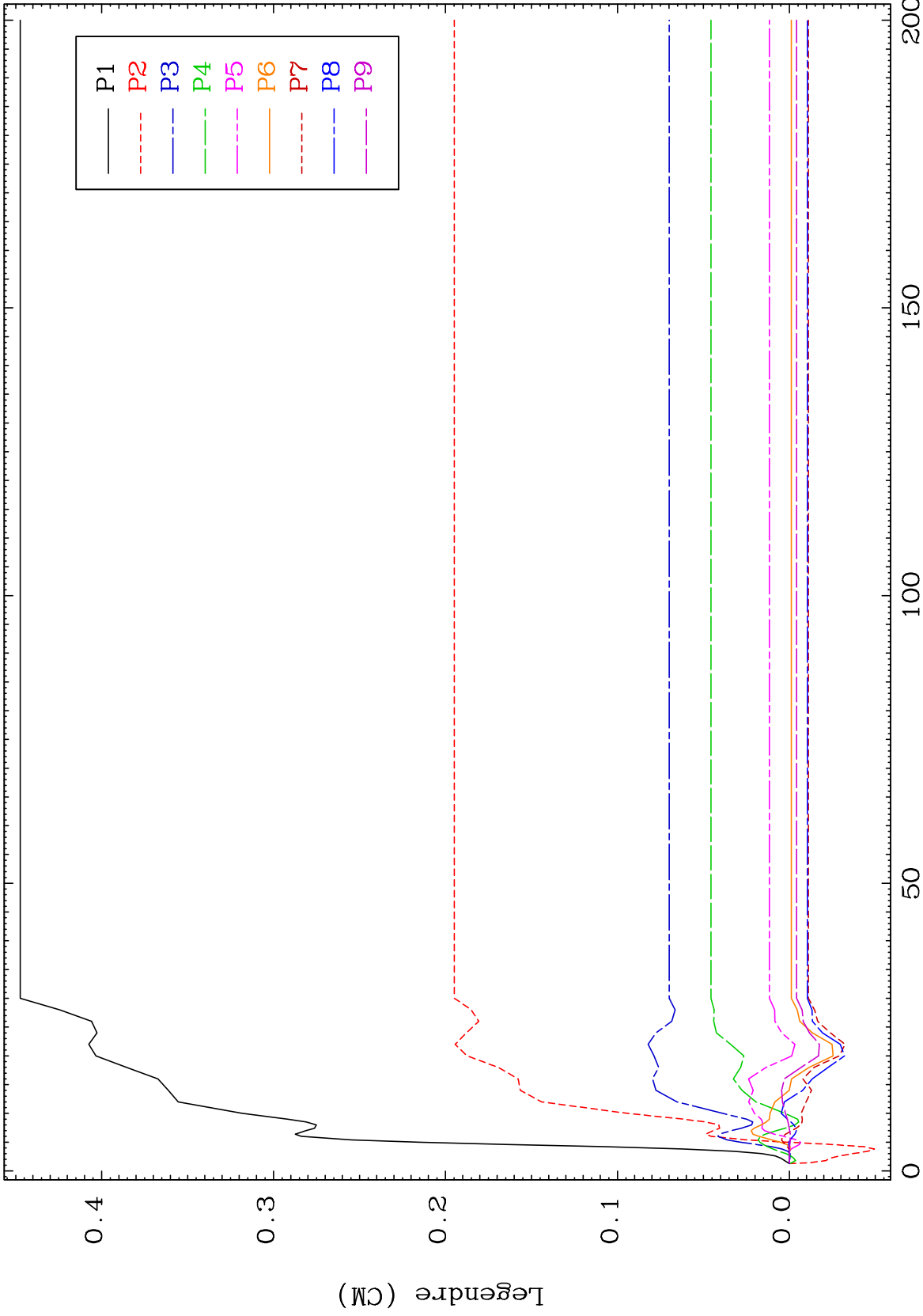
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MAT 6431

MT= 63 (n,n') Level
Legendre Coefficients

64-Gd-154



64

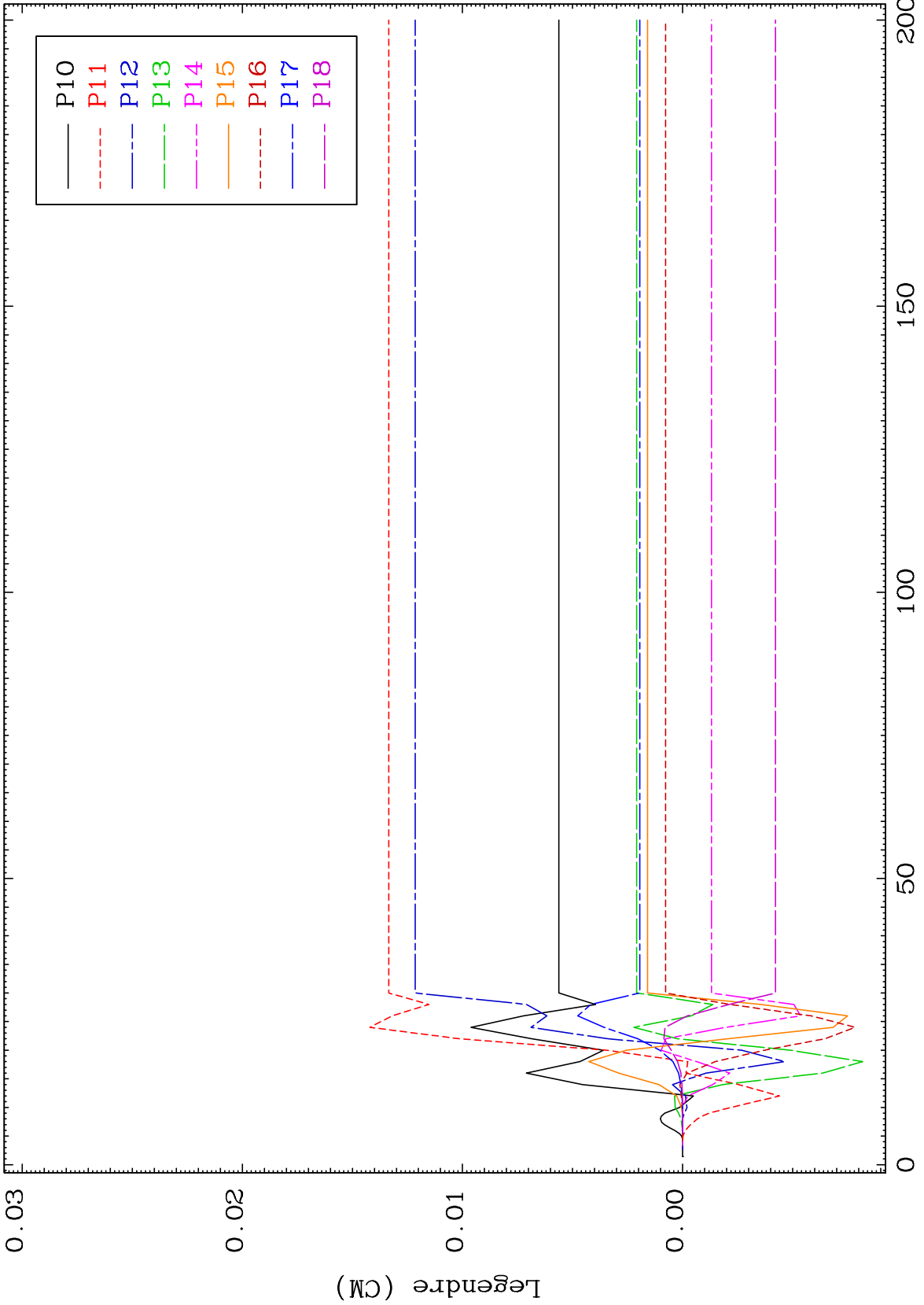
Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 63 (n,n') Level Legendre Coefficients

64-Gd-154

64-Gd-154

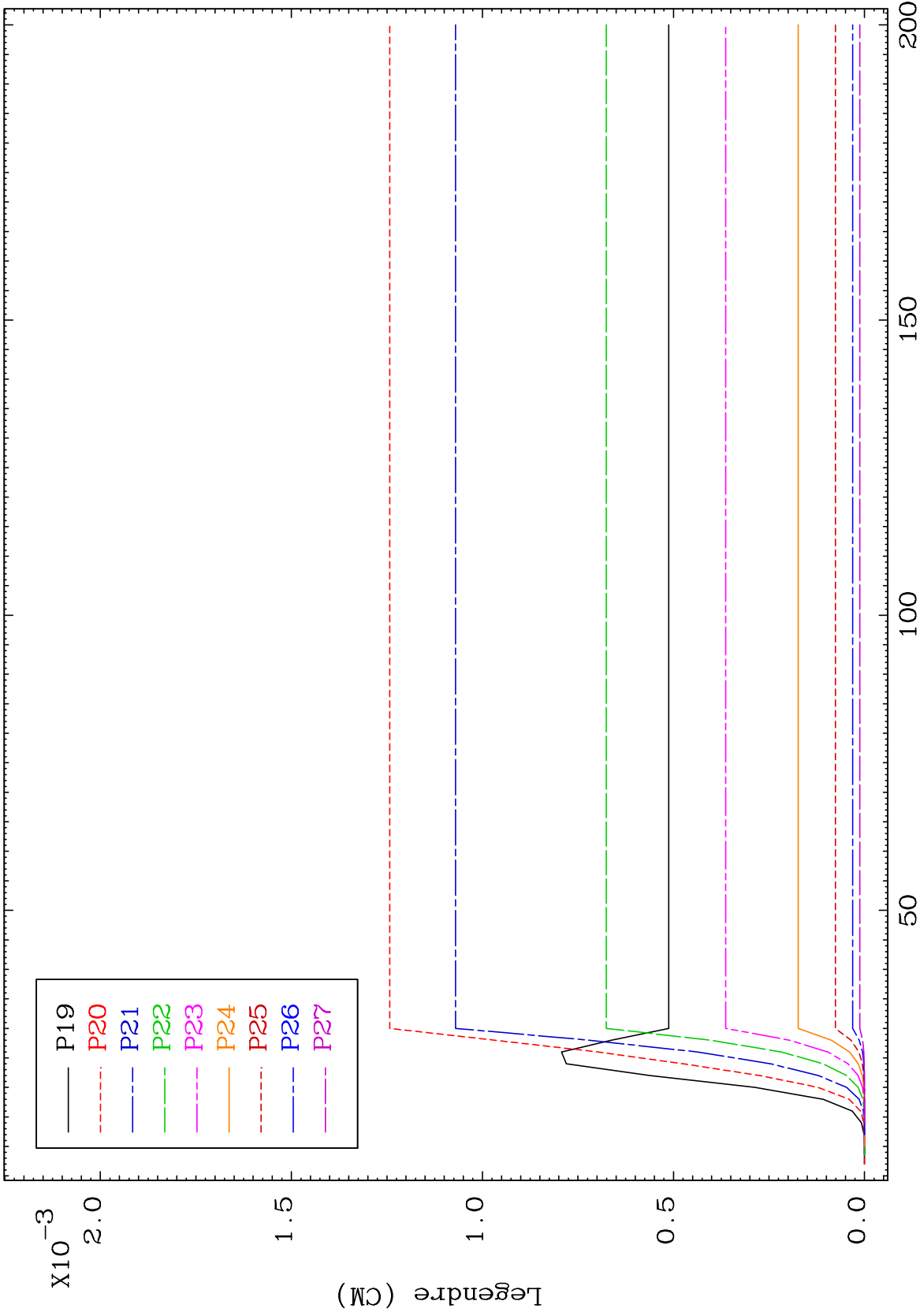


65

MAT 6431

MT= 63 (n,n') Level
Legendre Coefficients

64-Gd-154



66

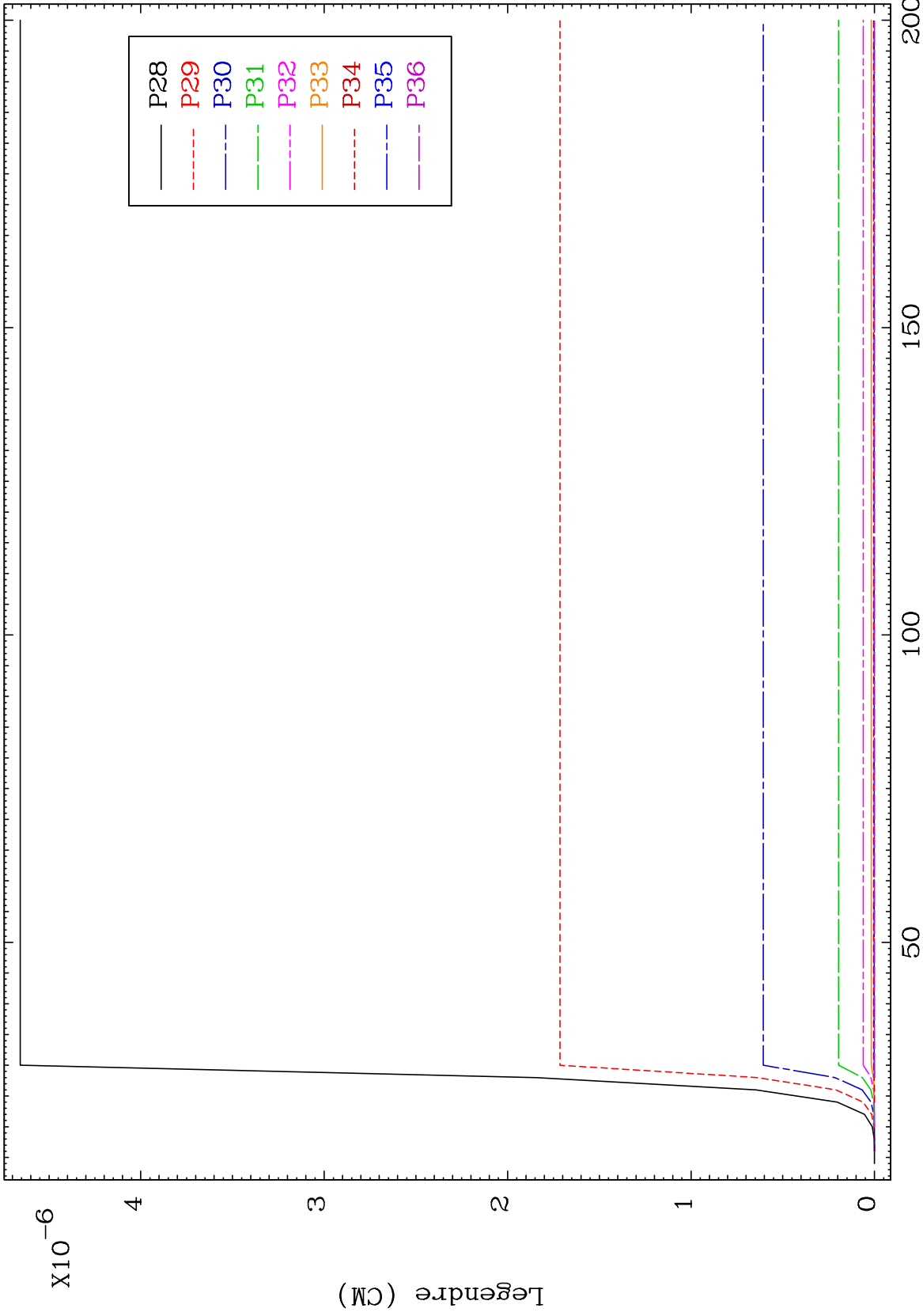
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 63 (n,n') Level
Legendre Coefficients

64-Gd-154

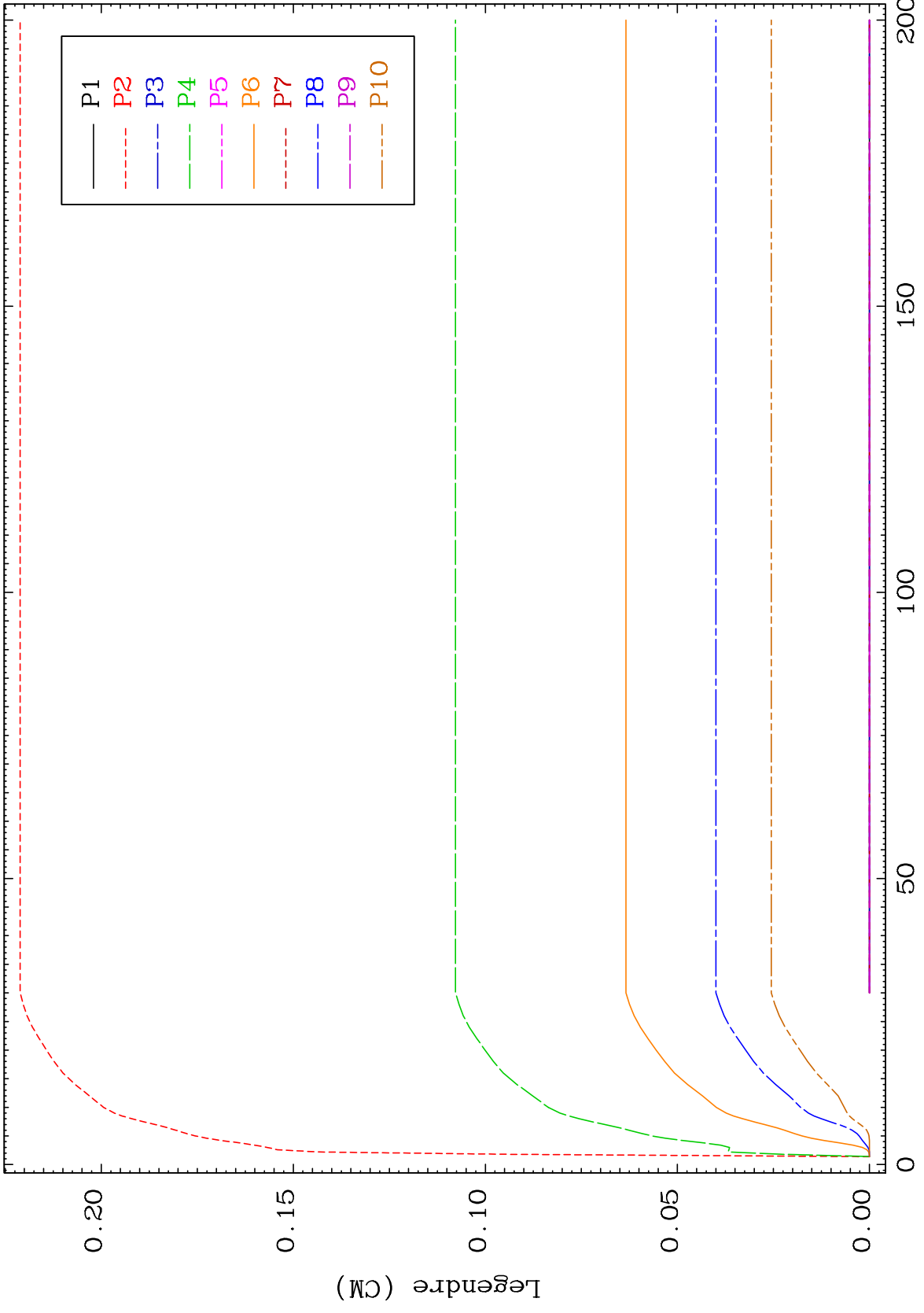


67

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 64 (n,n') Level Legendre Coefficients 64-Gd-154

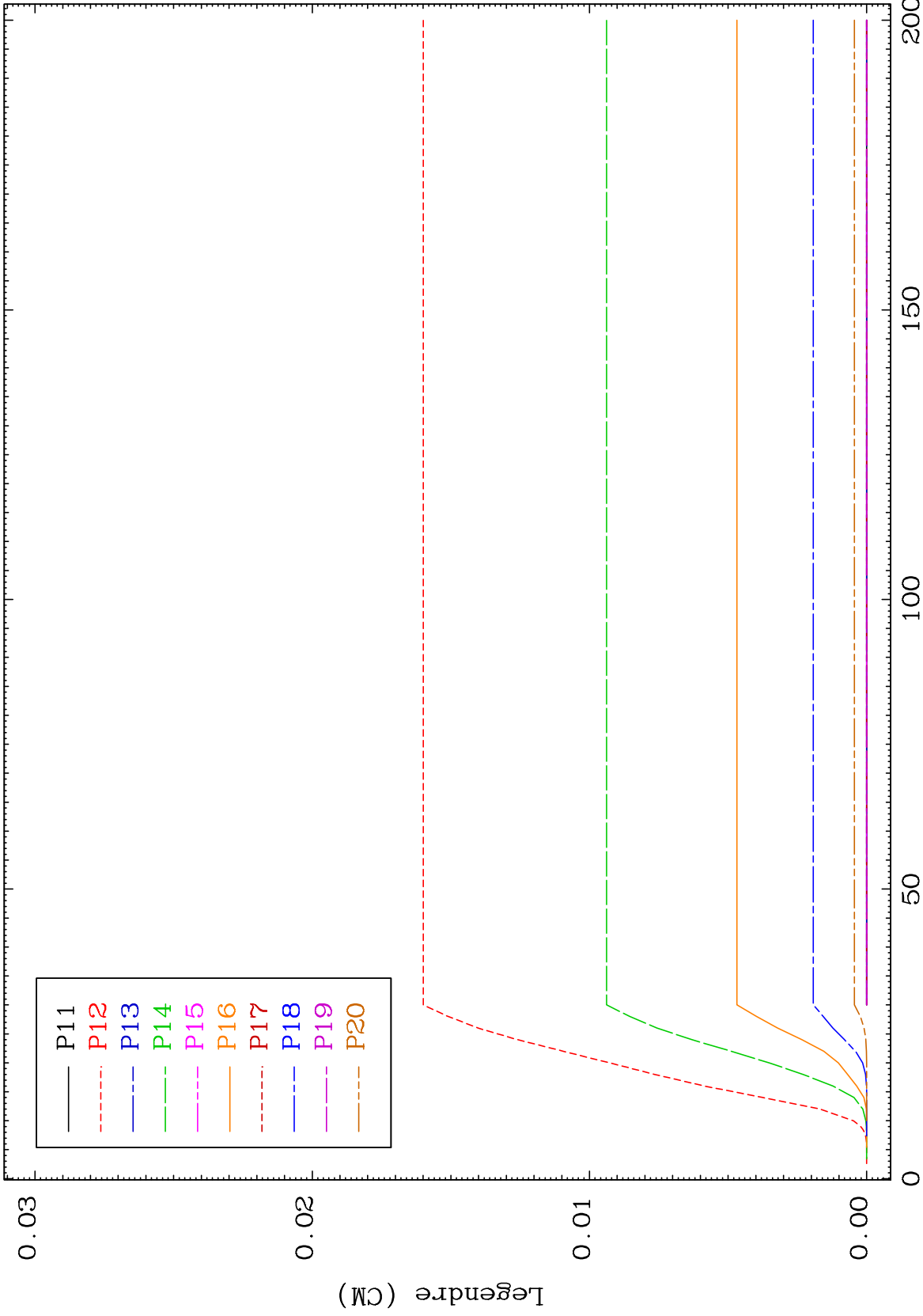


64-Gd-154 Incident Energy (MeV) 68

MAT 6431

MT= 64 (n,n') Level
Legendre Coefficients

64-Gd-154

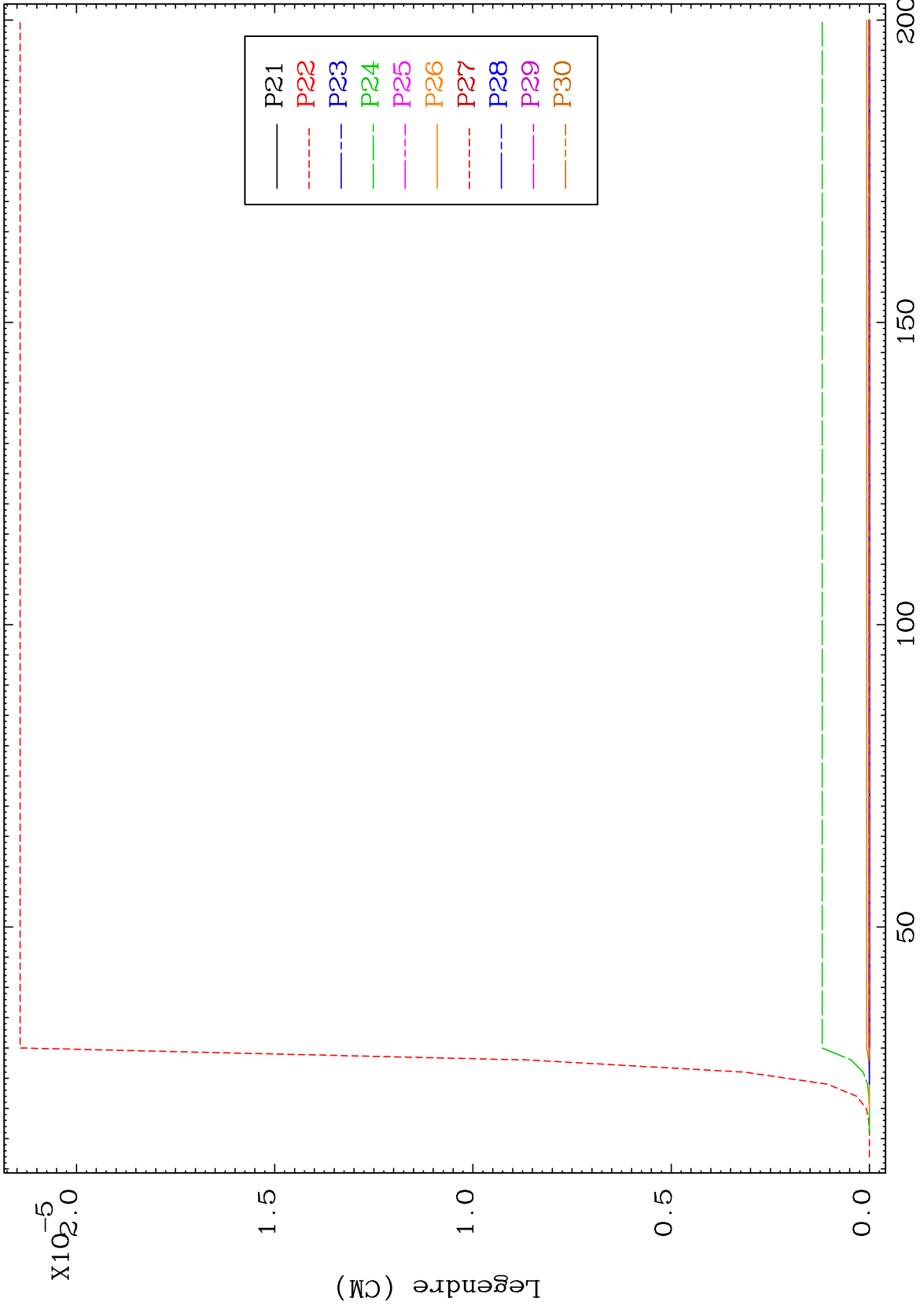


69

Incident Energy (MeV)

64-Gd-154

MAT 6431 MT= 64 (n,n') Level Legendre Coefficients 64-Gd-154

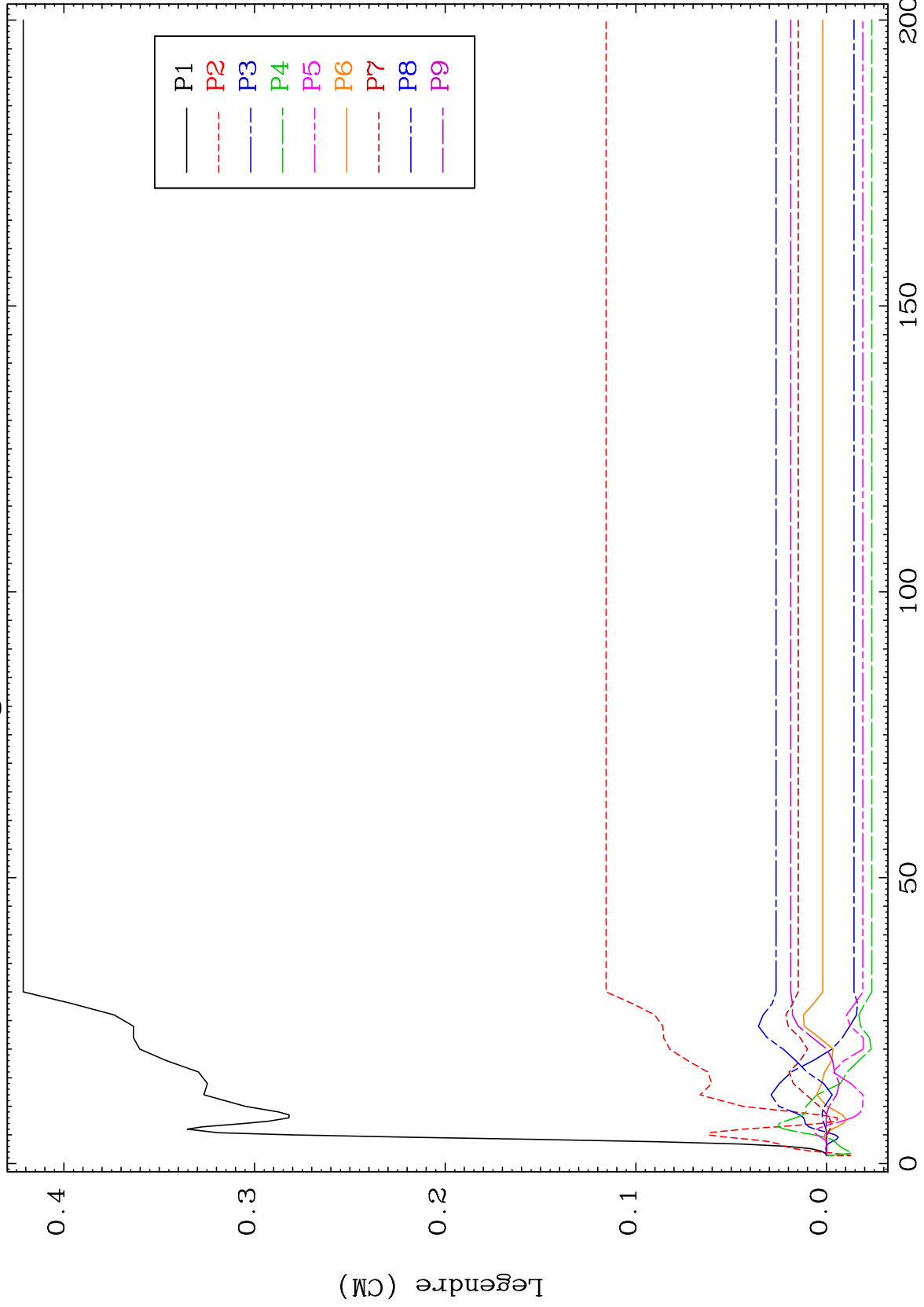


64-Gd-154

MAT 6431

MT= 65 (n,n') Level
Legendre Coefficients

64-Gd-154



71

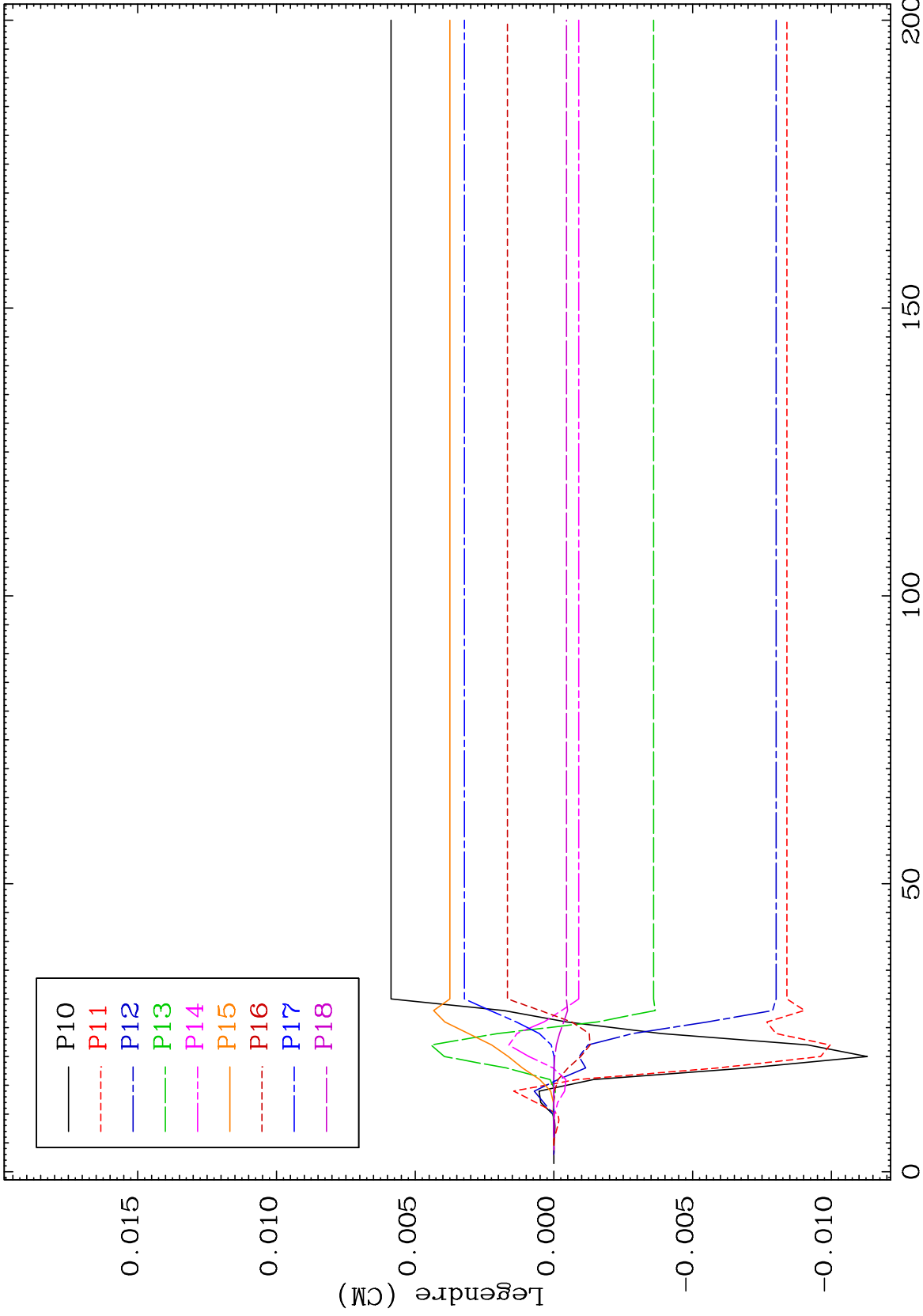
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 65 (n,n') Level
Legendre Coefficients

64-Gd-154



72

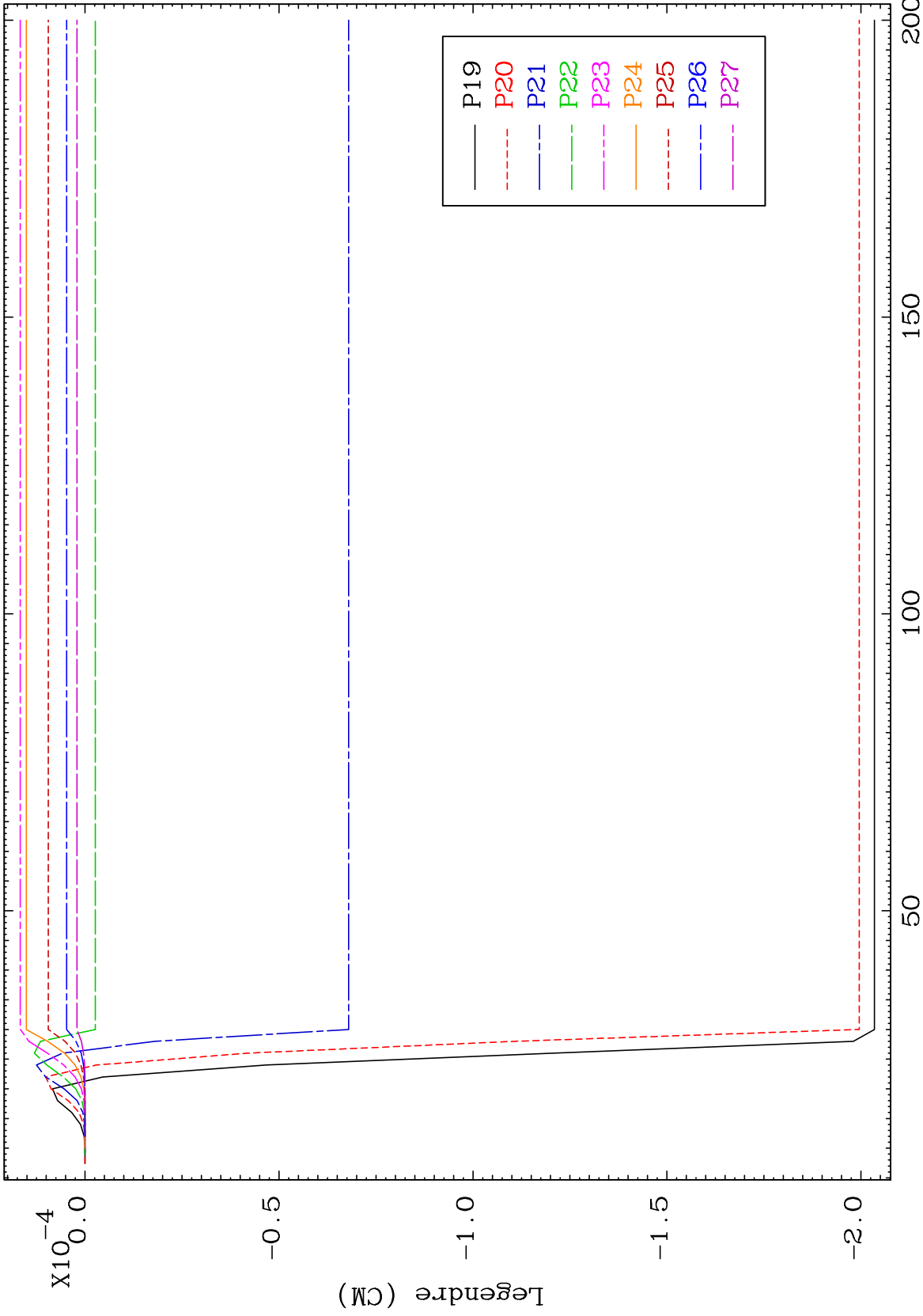
Incident Energy (MeV)

64-Gd-154

MAT 6431

MT= 65 (n,n') Level
Legendre Coefficients

64-Gd-154



64-Gd-154

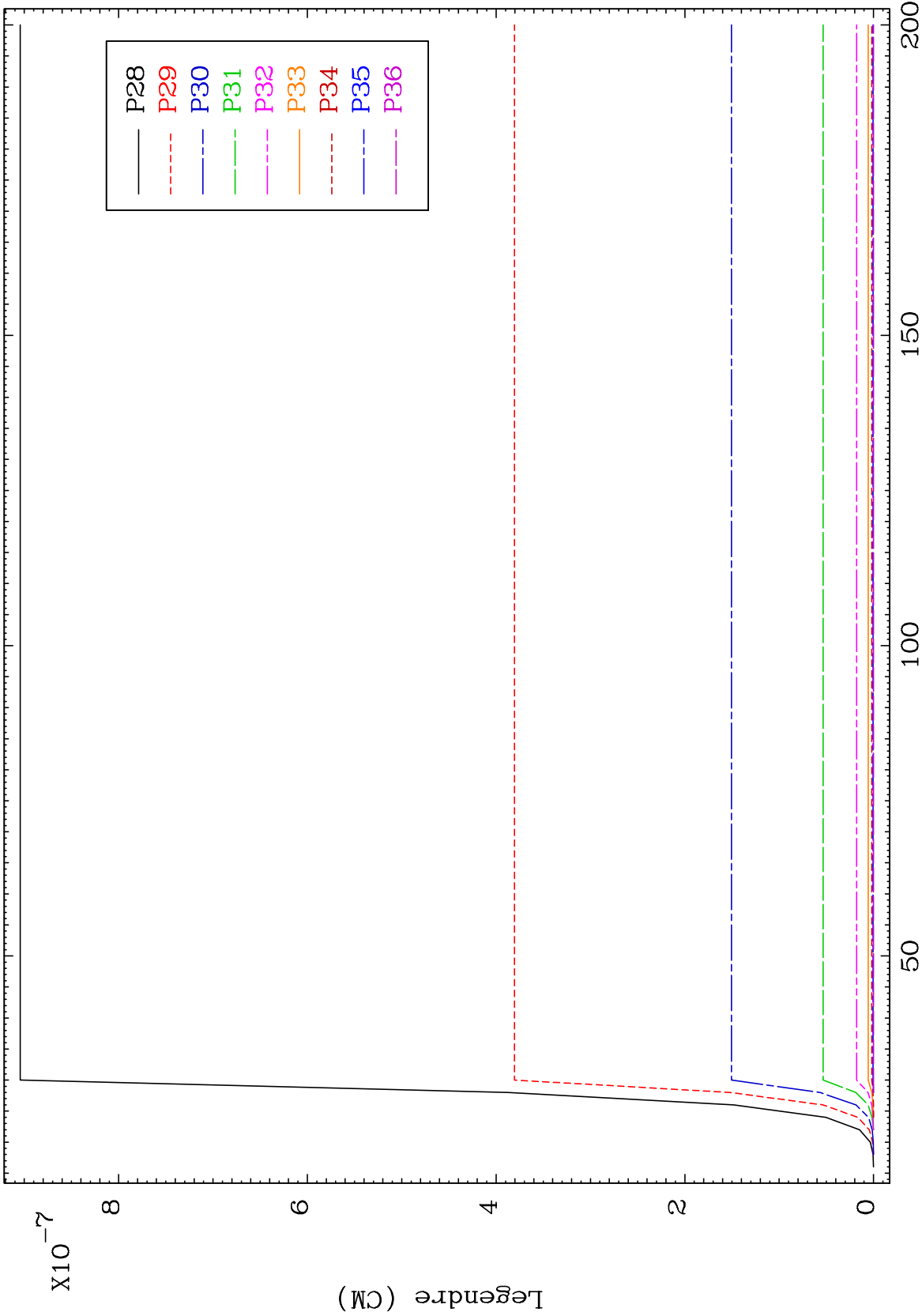
Incident Energy (MeV)

73

MAT 6431

MT= 65 (n,n') Level
Legendre Coefficients

64-Gd-154



74

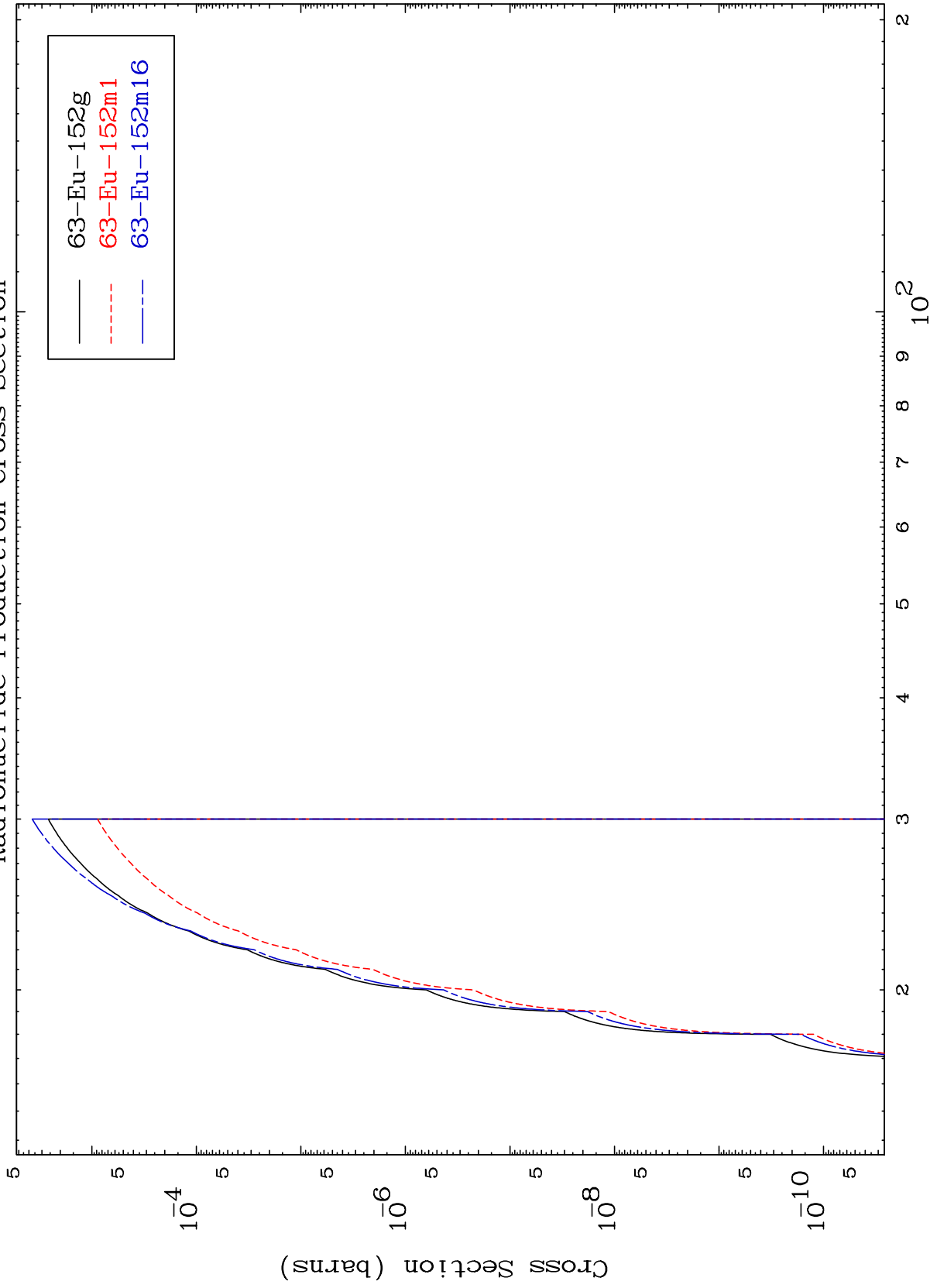
64-Gd-154

MAT 6431

(n,n') d

64-Gd-154

Radionuclide Production Cross Section



75

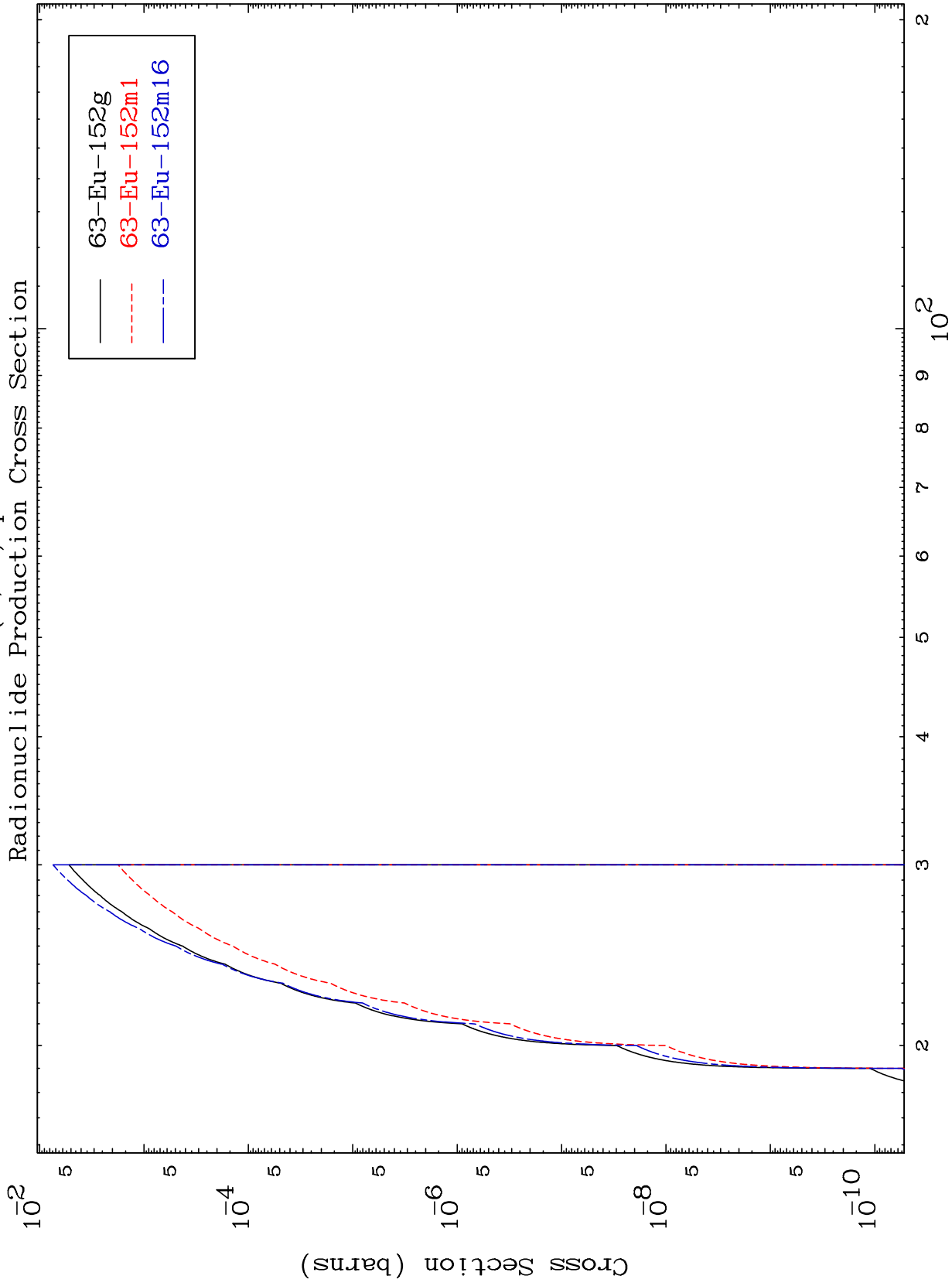
Incident Energy (MeV)

64-Gd-154

MAT 6431

(n,2n) p

64-Gd-154



76

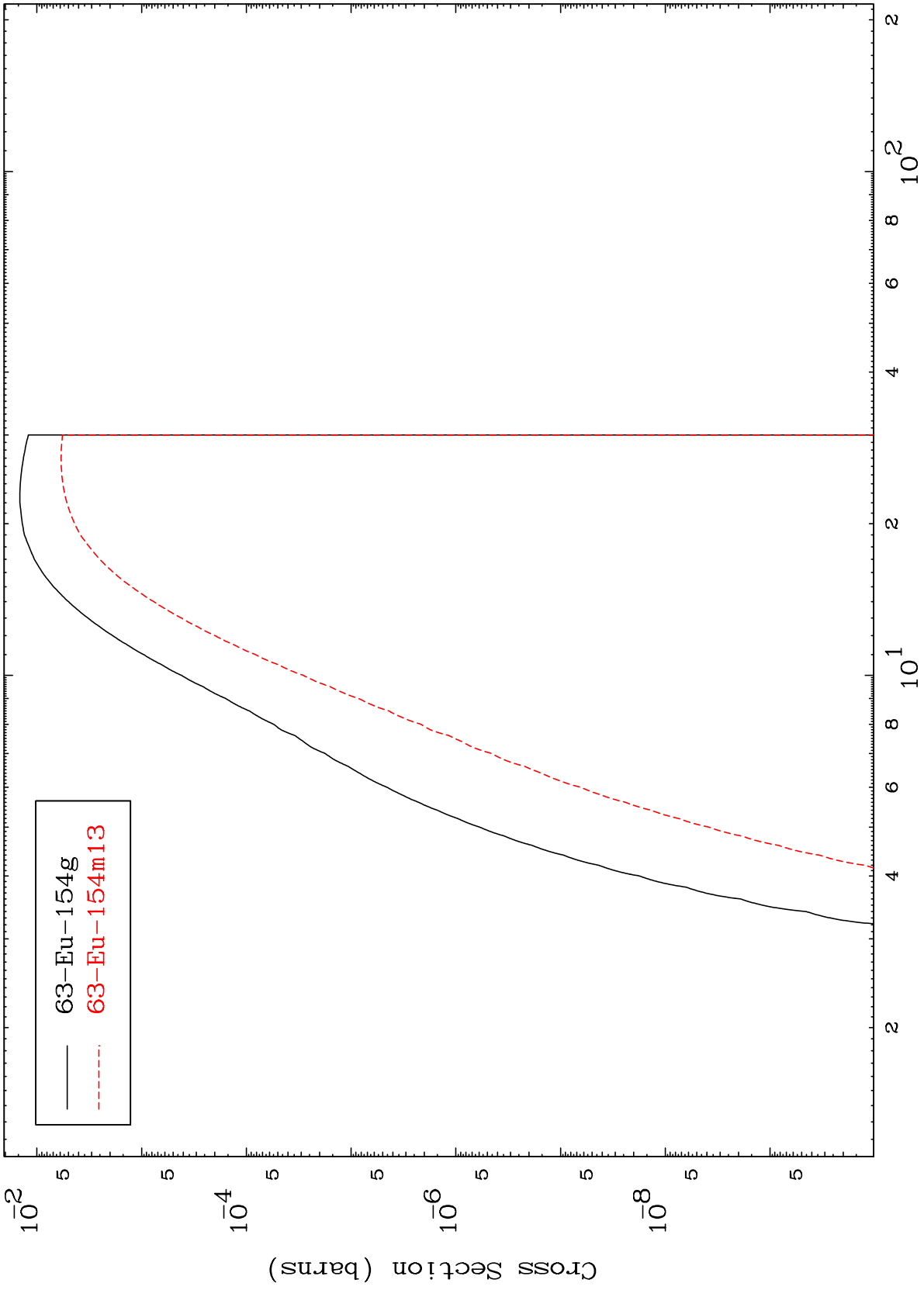
Incident Energy (MeV)

64-Gd-154

MAT 6431

64-Gd-154

(n,p)
Radionuclide Production Cross Section



77

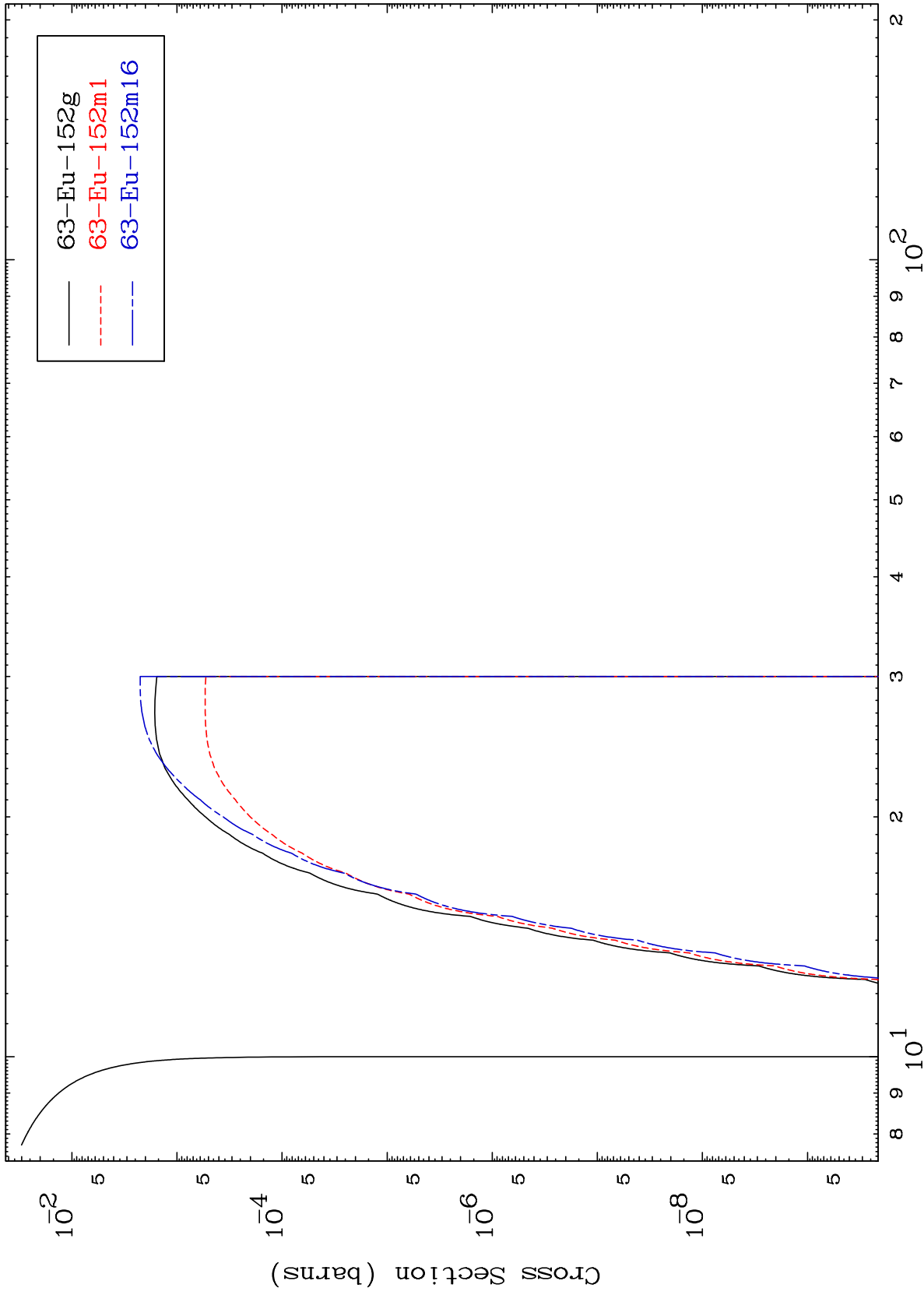
64-Gd-154

MAT 6431

(n, t)

64-Gd-154

Radionuclide Production Cross Section



78

Incident Energy (MeV)

64-Gd-154