

Program EVALPLOT
(Version 2018-1)

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:redcullen1.net/HOMEPAGE.NEW

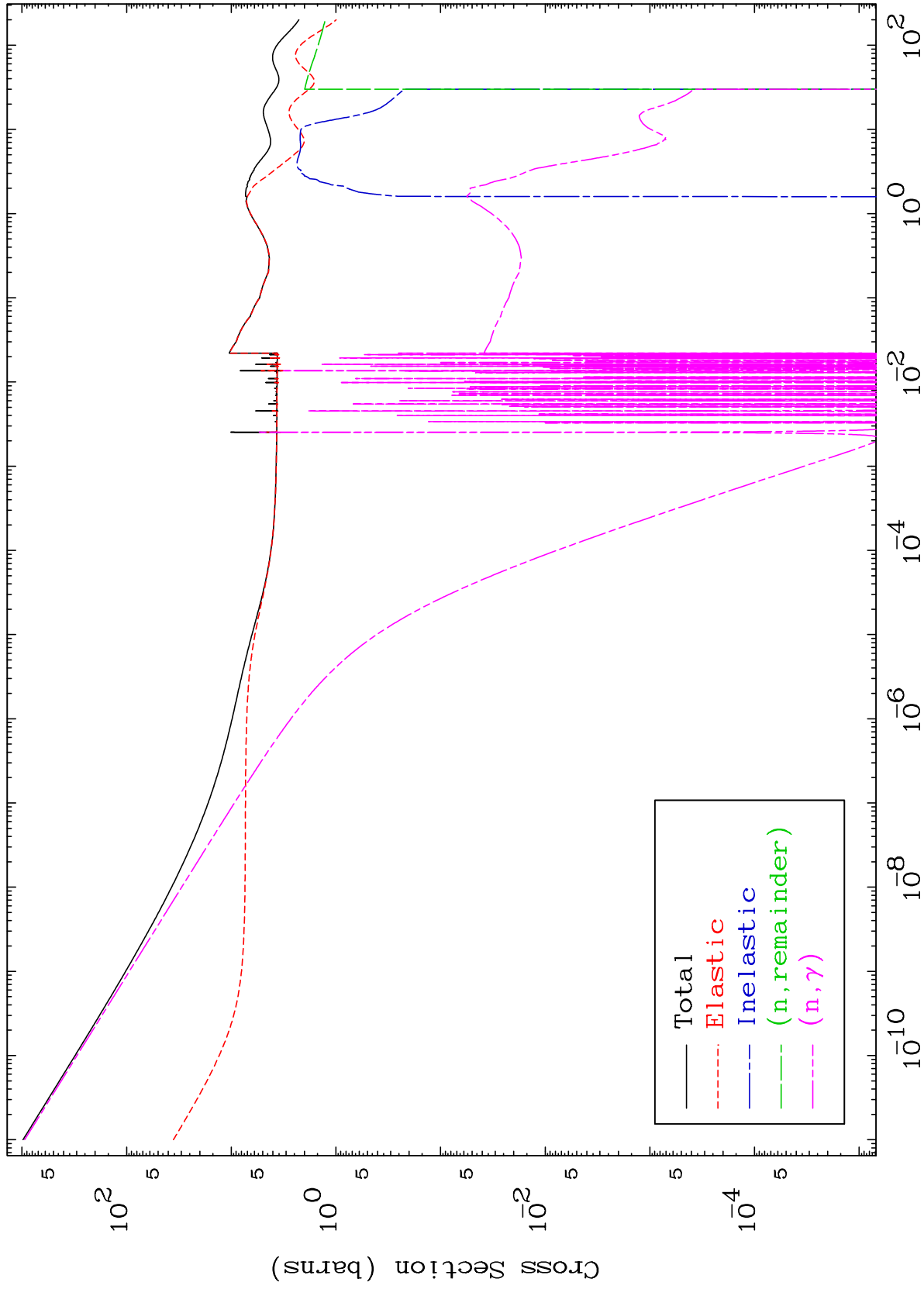
Press Mouse Button to Start

MAT 6025

Major

293 Kelvin Cross Sections

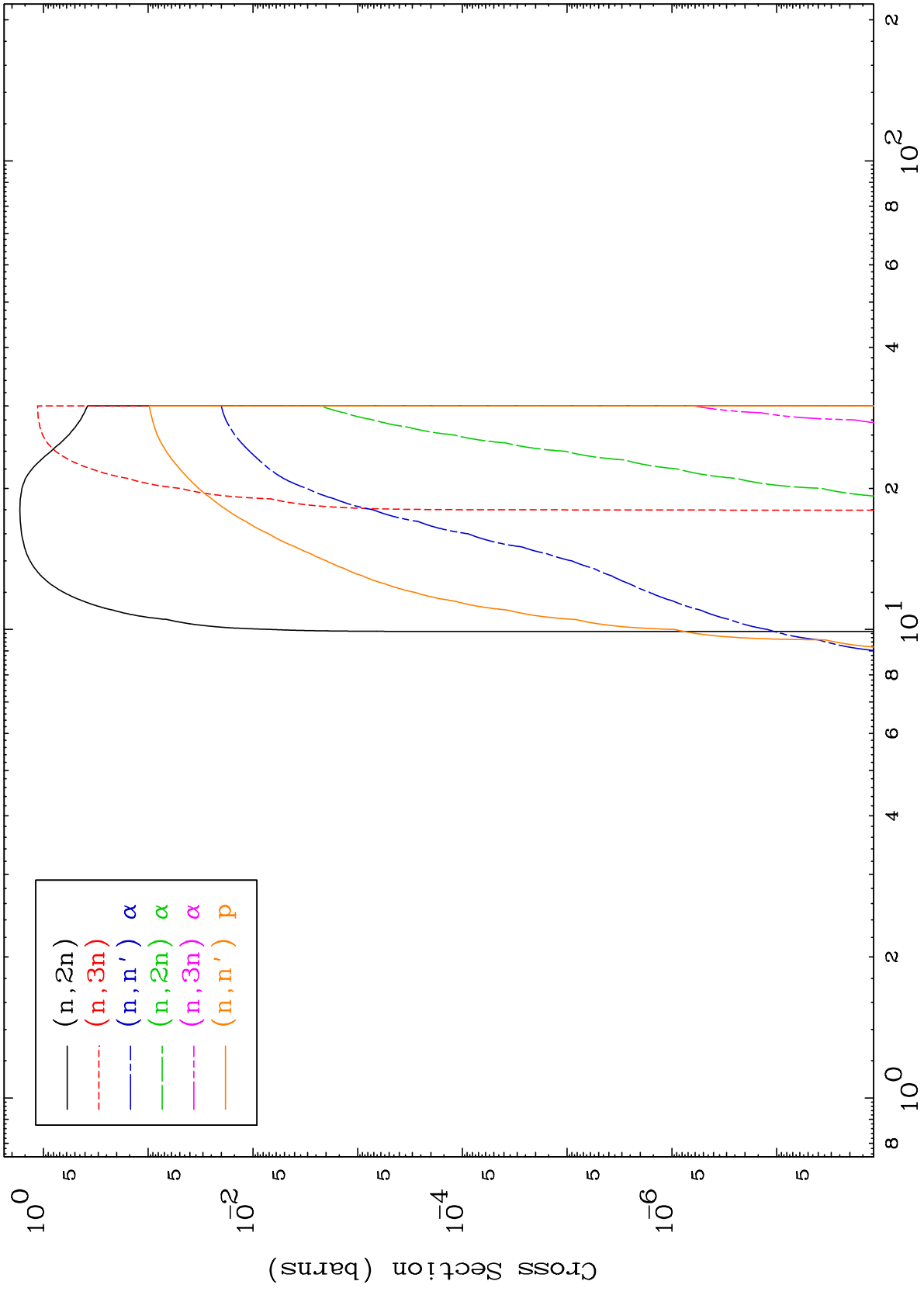
60-Nd-142



MAT 6025

Neutron Production
293 Kelvin Cross Sections

60-Nd-142



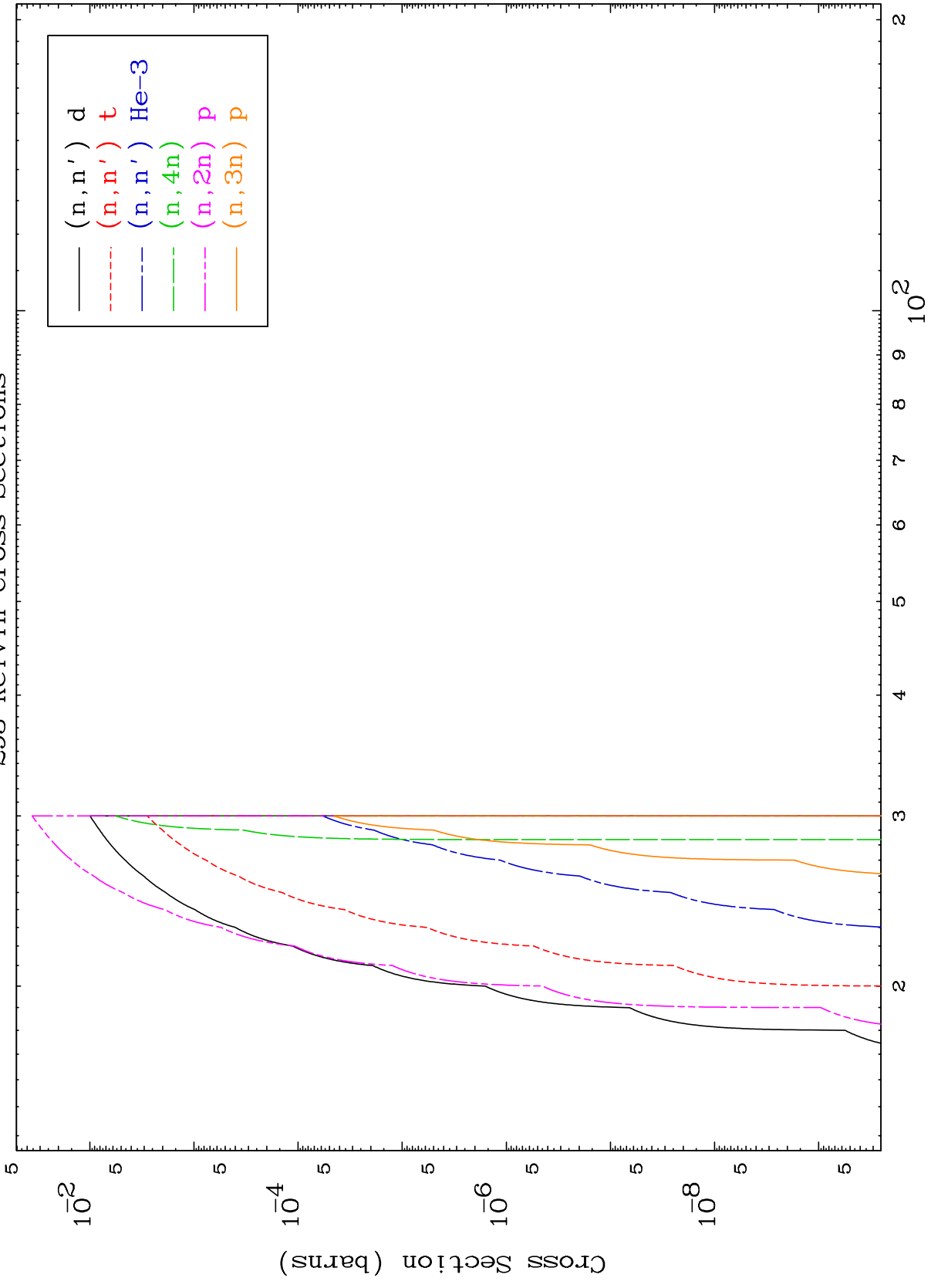
60-Nd-142

Incident Energy (MeV)

MAT 6025

Neutron Production
293 Kelvin Cross Sections

60-Nd-142



3

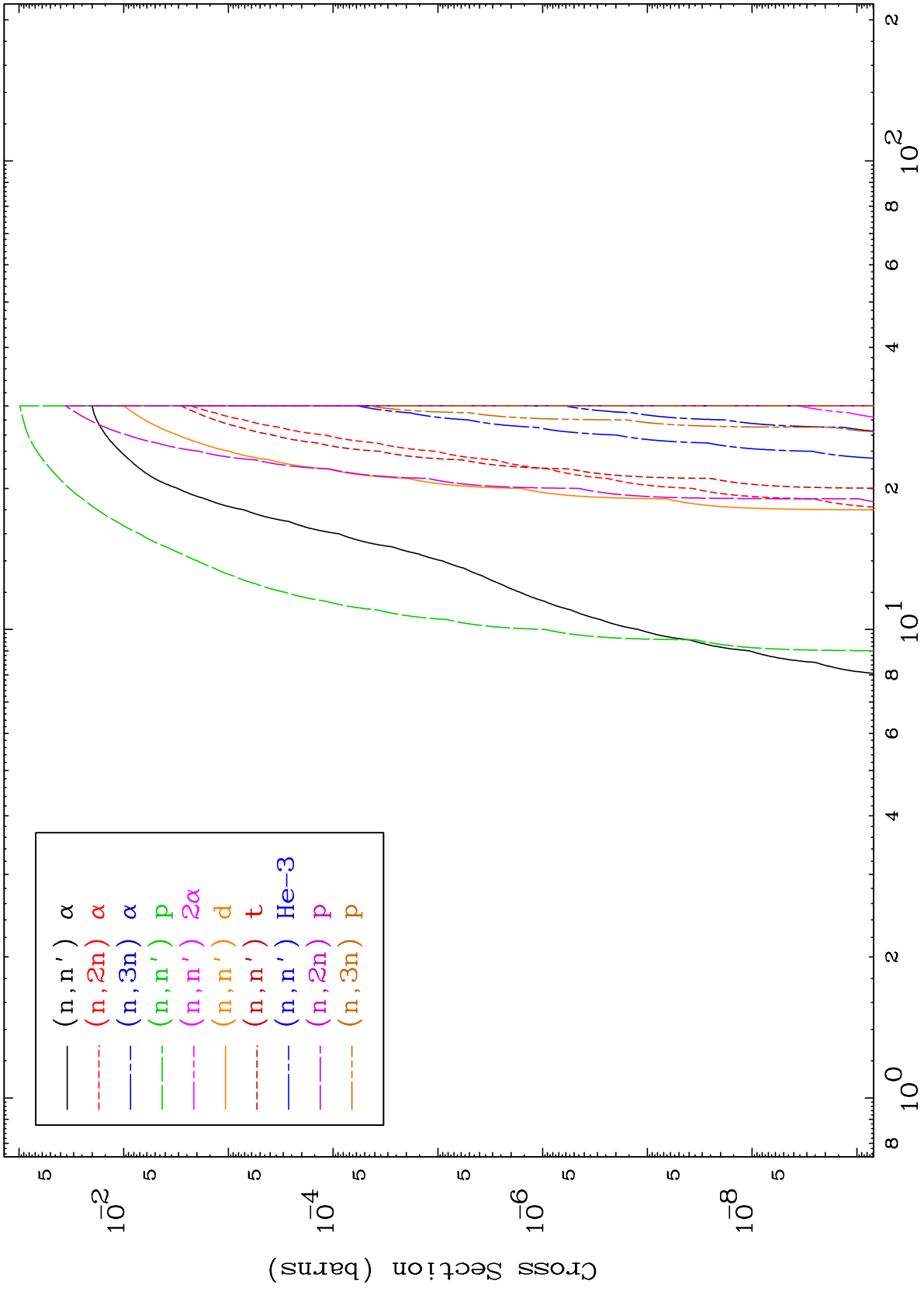
Incident Energy (MeV)

60-Nd-142

MAT 6025

293 Kelvin Cross Sections

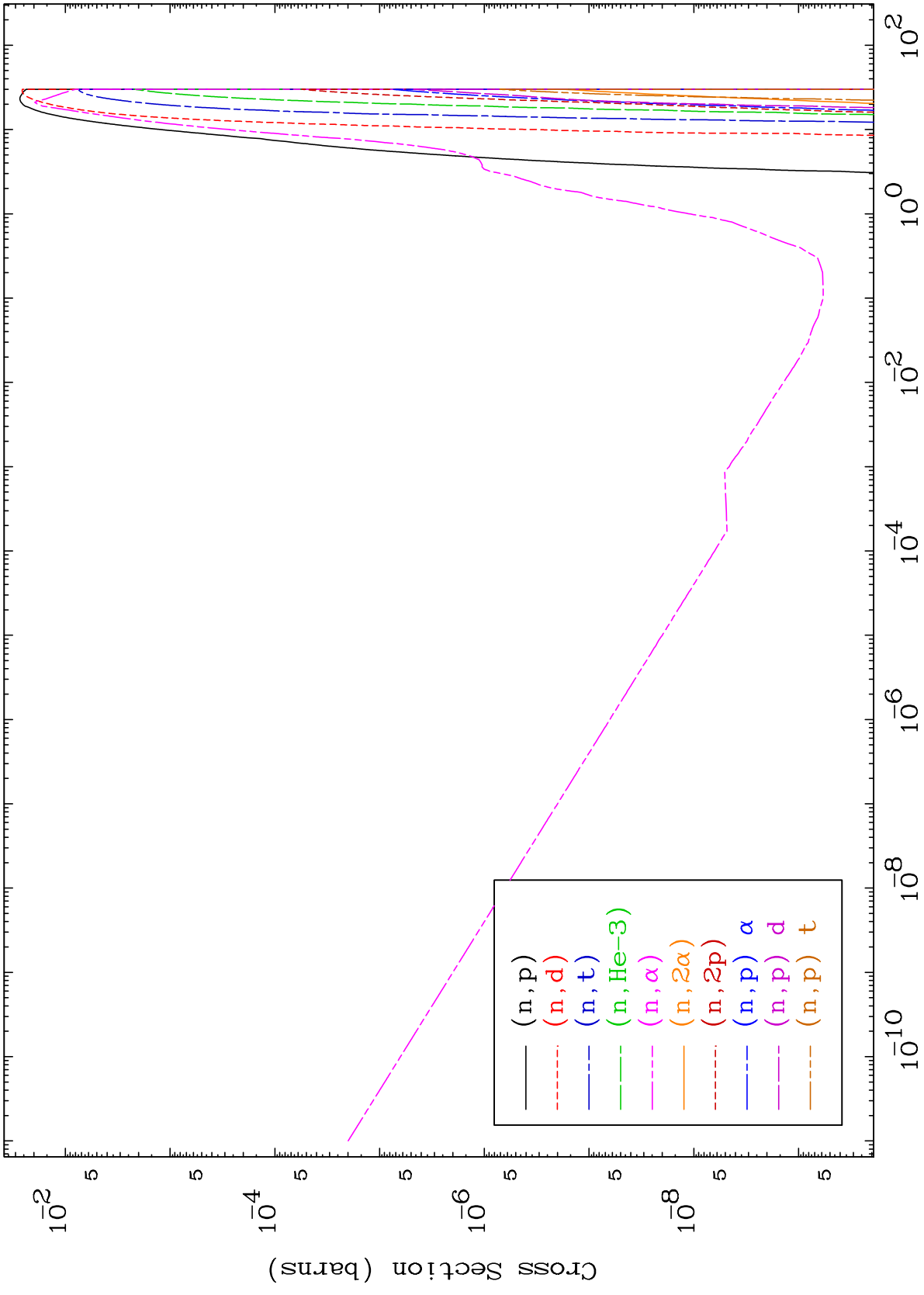
60-Nd-142



MAT 6025

Charged Particle
293 Kelvin Cross Sections

60-Nd-142

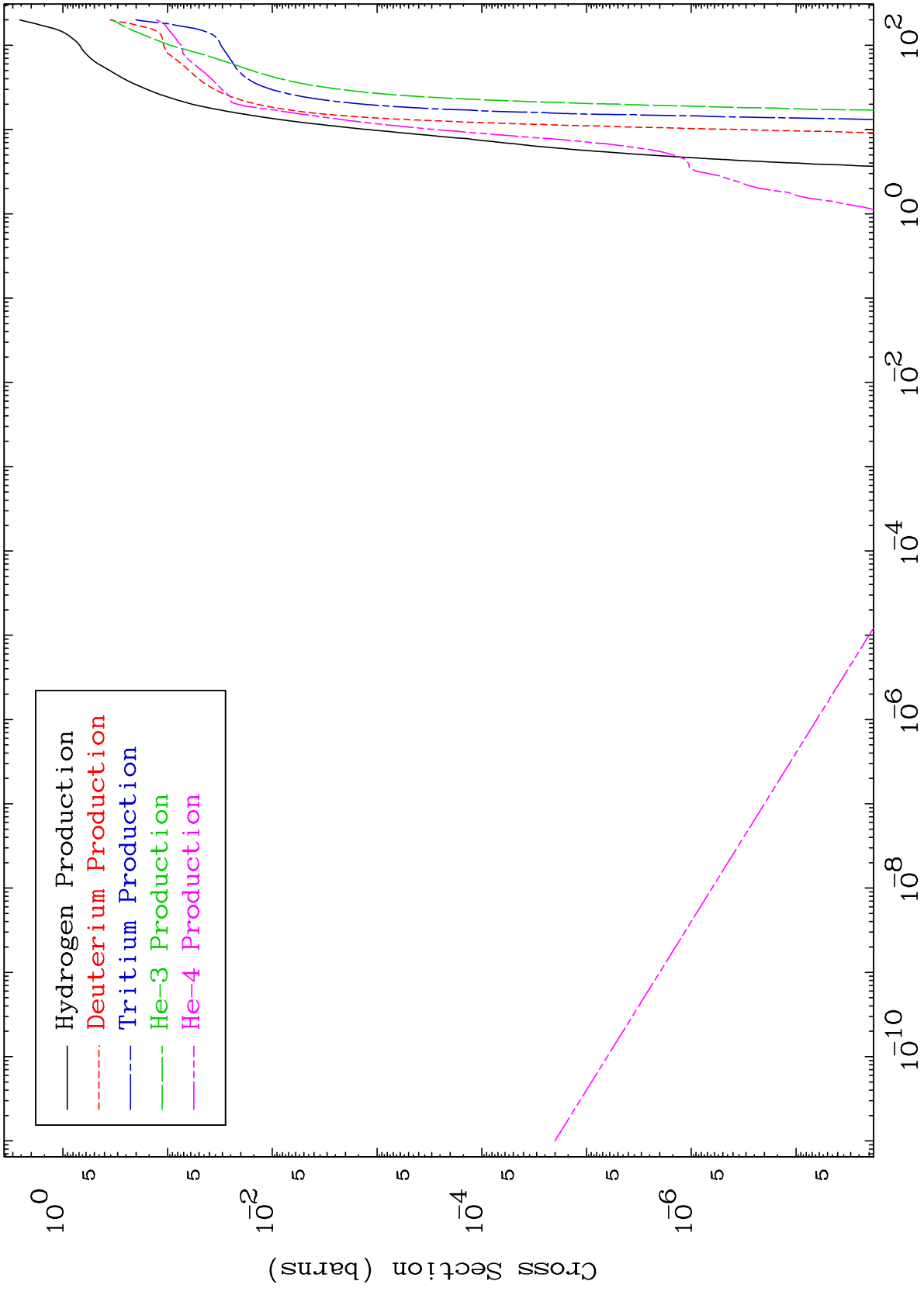


60-Nd-142

MAT 6025

Particle Production
293 Kelvin Cross Sections

60-Nd-142



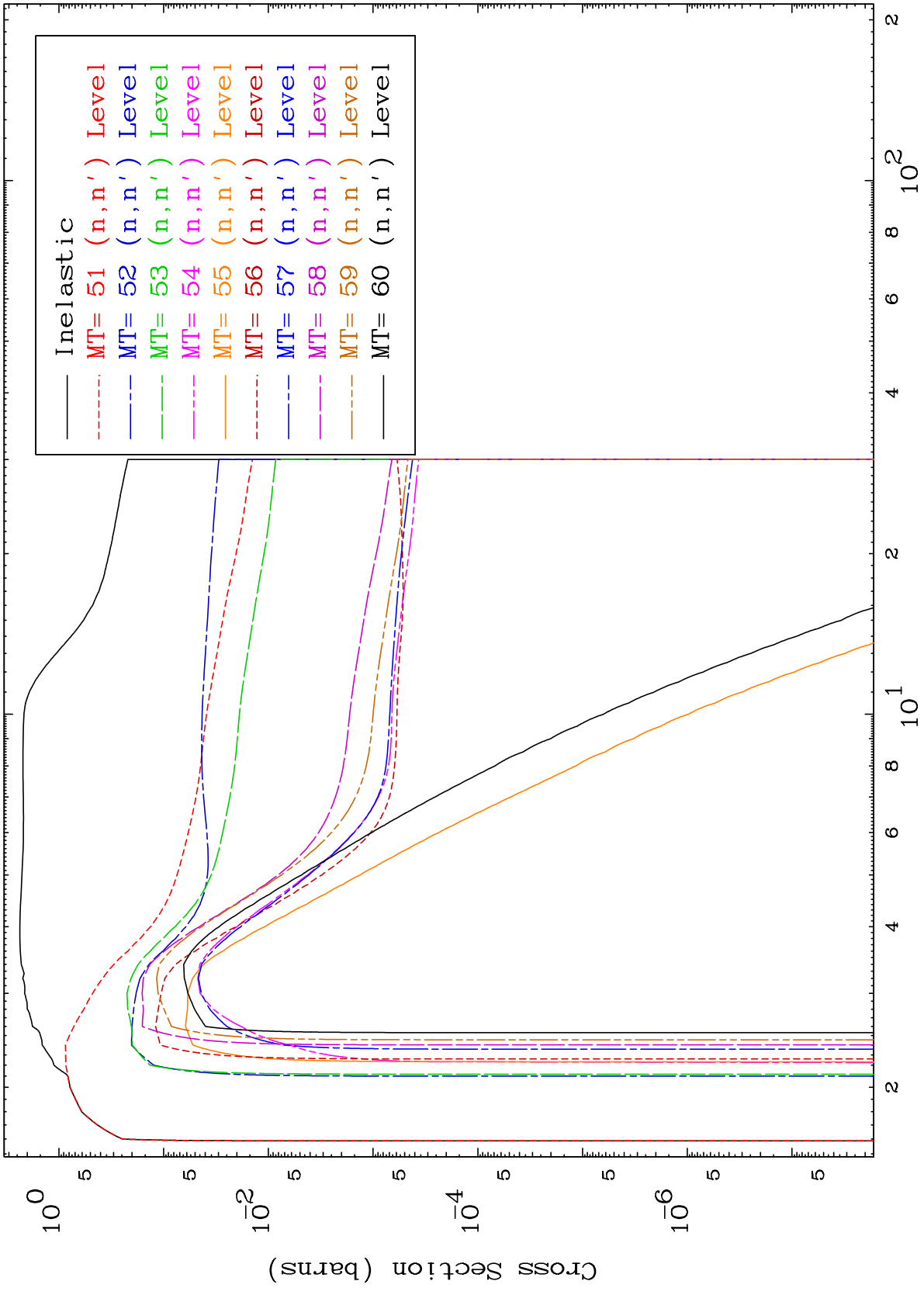
60-Nd-142

MAT 6025

(n,n') Level

60-Nd-142

293 Kelvin Cross Sections



7

Incident Energy (MeV)

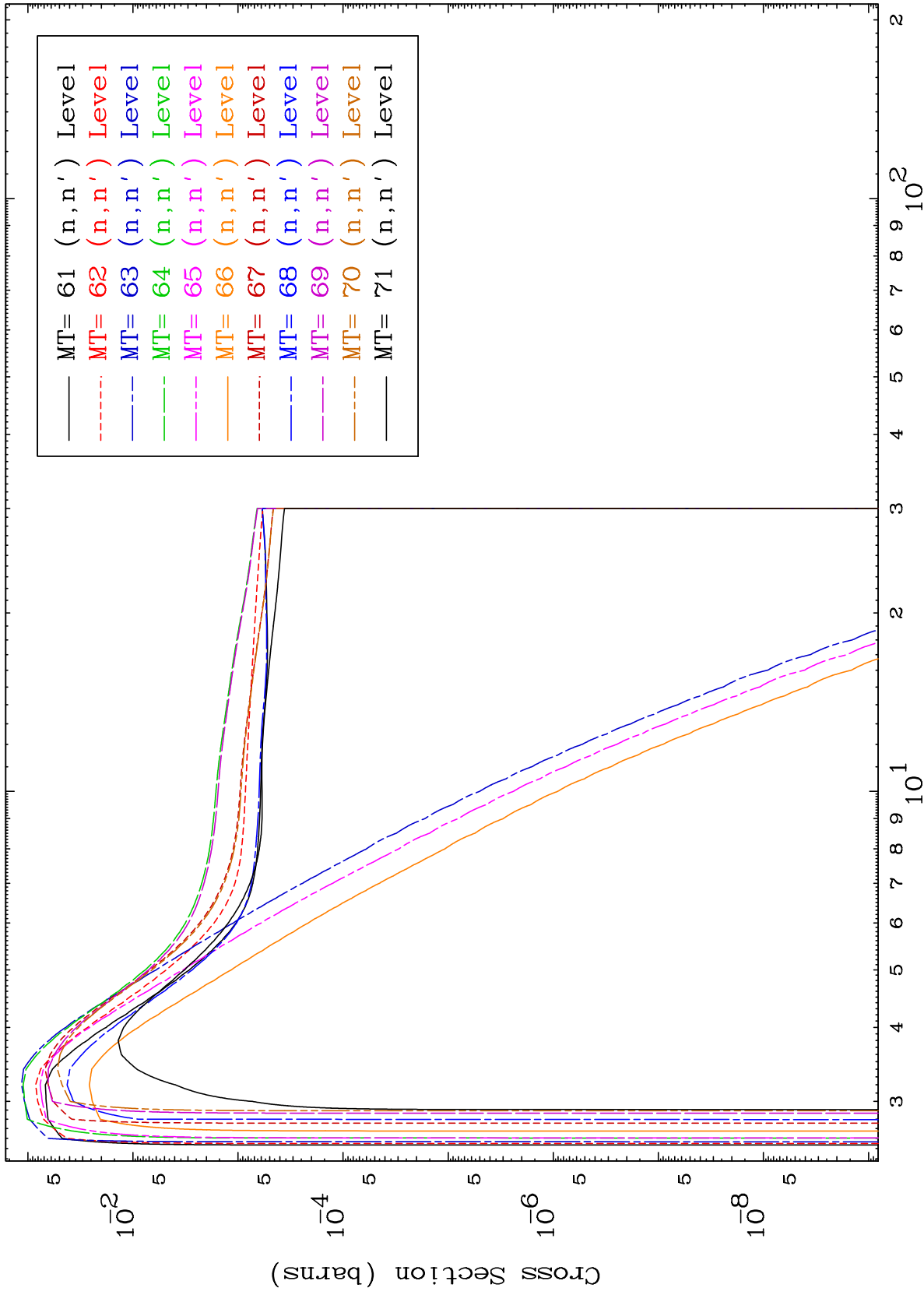
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MAT 6025

(n,n') Level

60-Nd-142

293 Kelvin Cross Sections



8

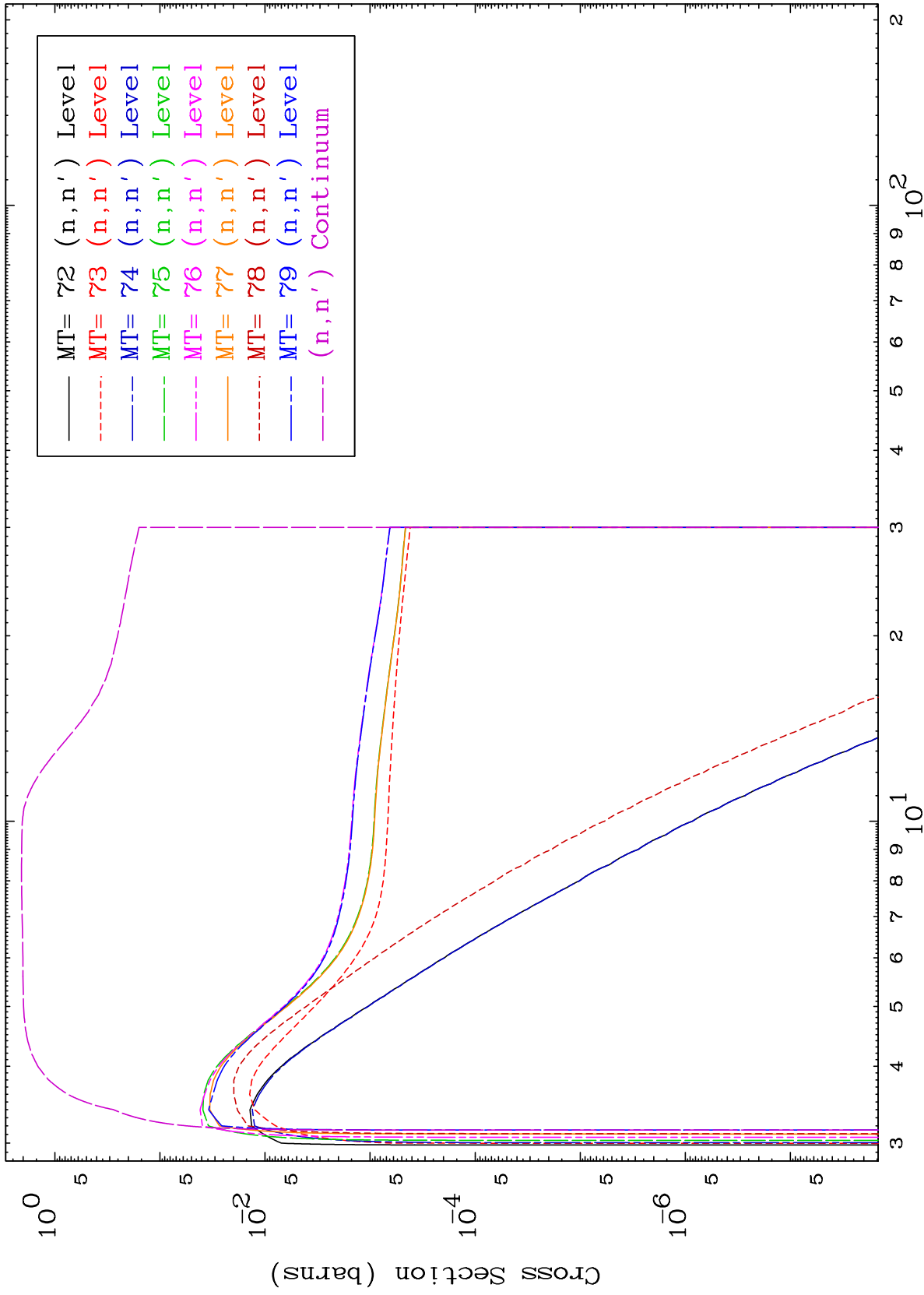
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60-Nd-142

MAT 6025

(n,n') Level
293 Kelvin Cross Sections

60-Nd-142



9

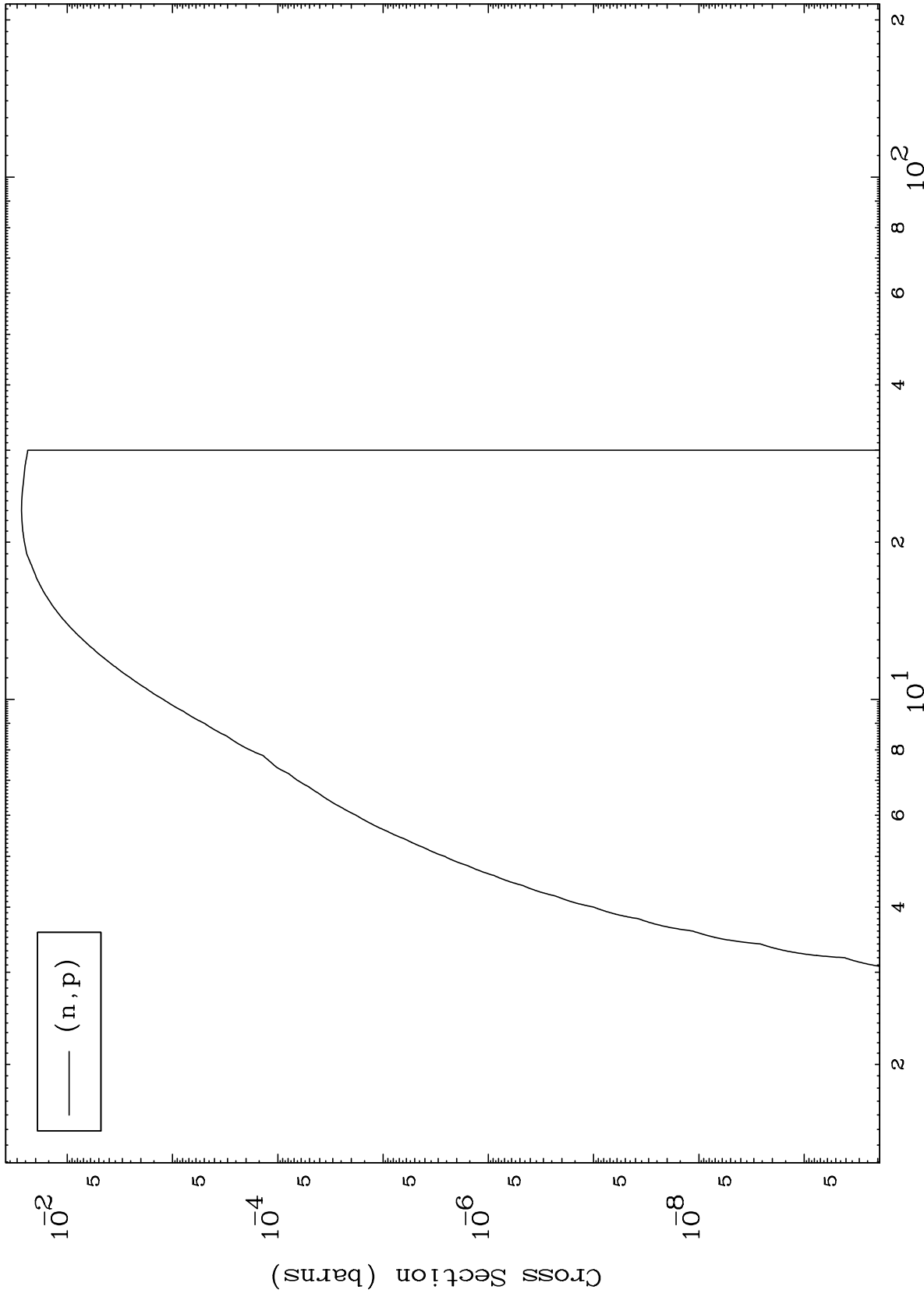
Incident Energy (MeV)

60-Nd-142

MAT 6025

(n,p) Levels
293 Kelvin Cross Sections

60-Nd-142



10

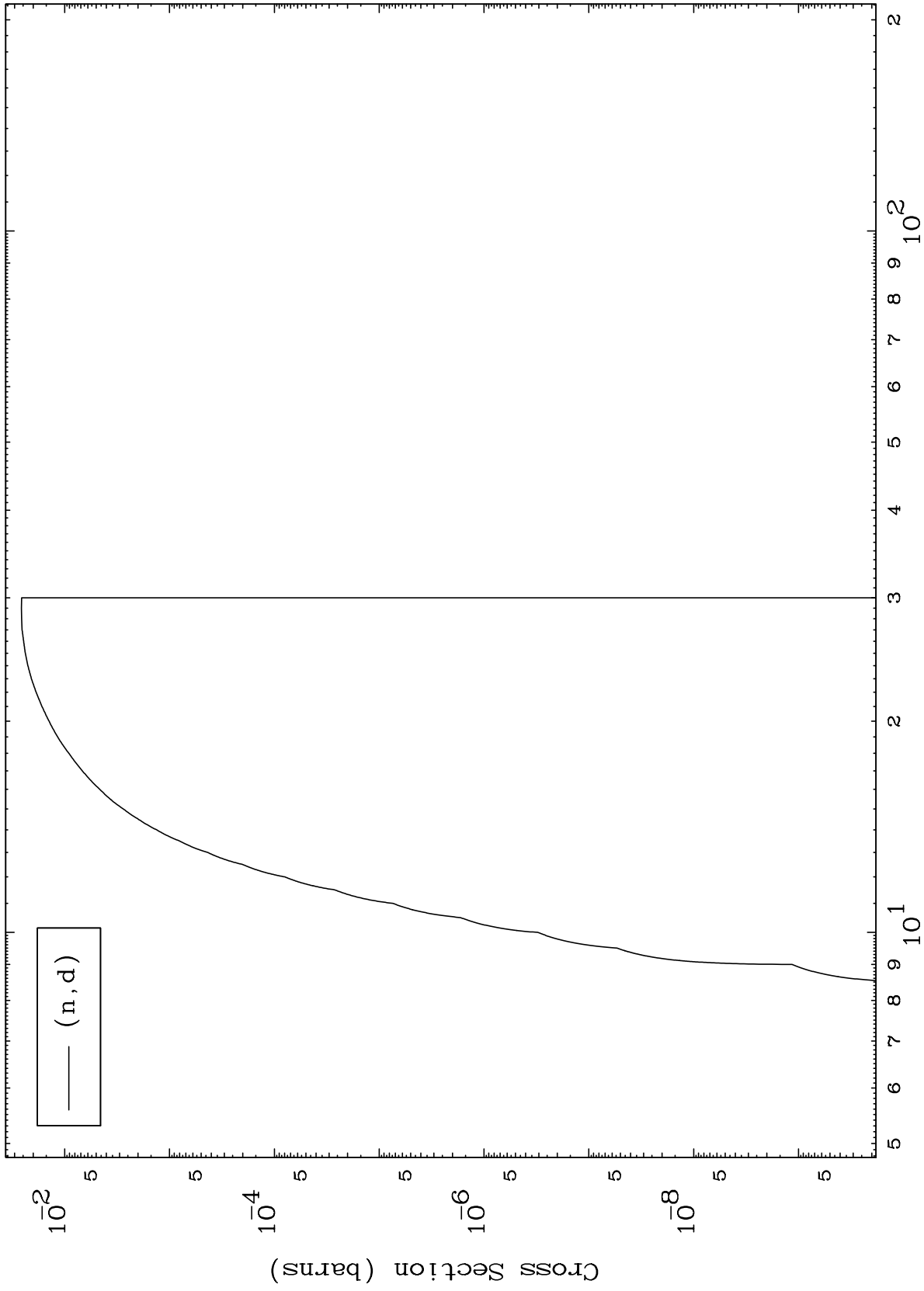
Incident Energy (MeV)

60-Nd-142

MAT 6025

(n,d) Levels
293 Kelvin Cross Sections

60-Nd-142



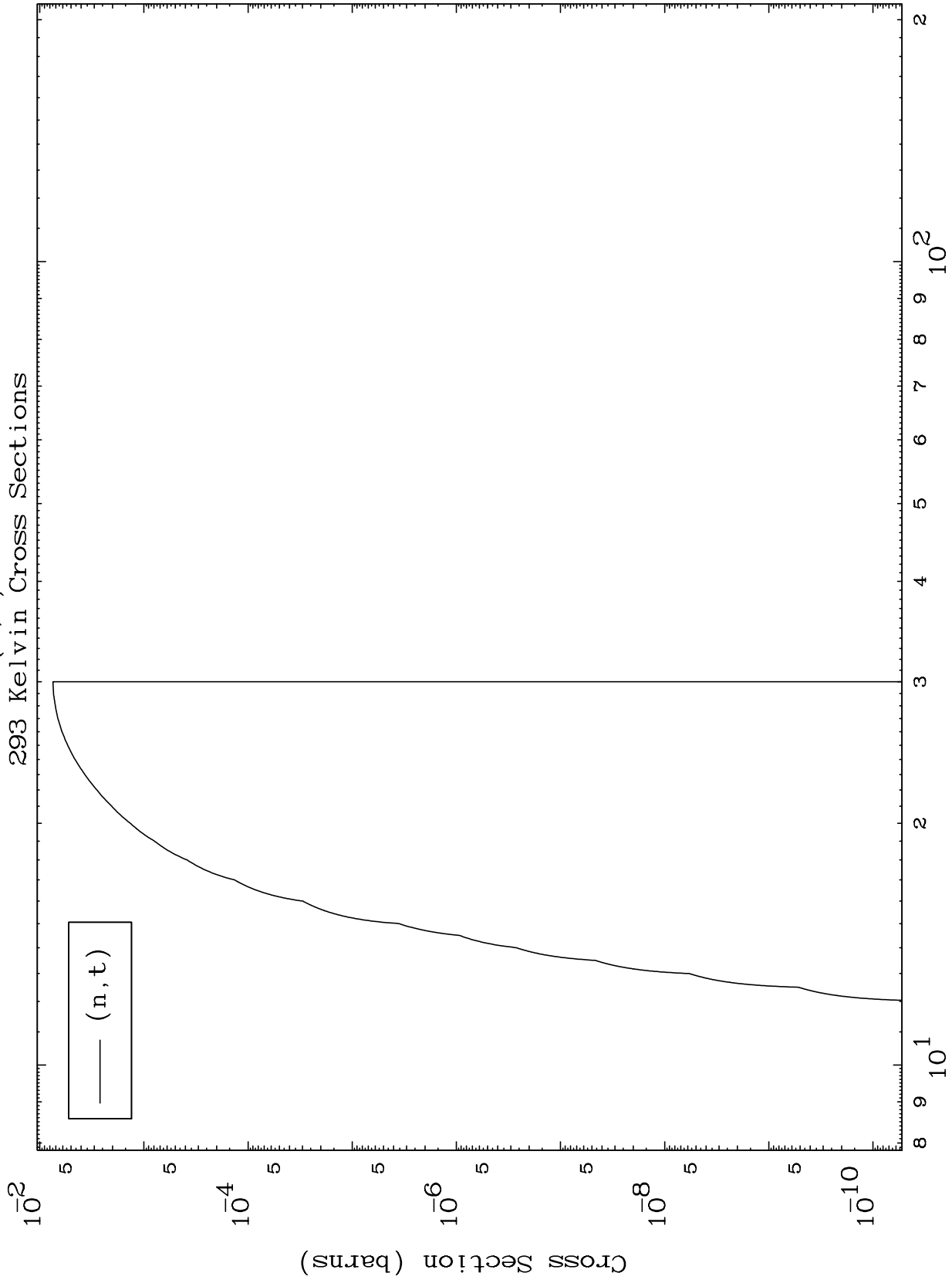
11

60-Nd-142

MAT 6025

(n,t) Levels
293 Kelvin Cross Sections

60-Nd-142



12

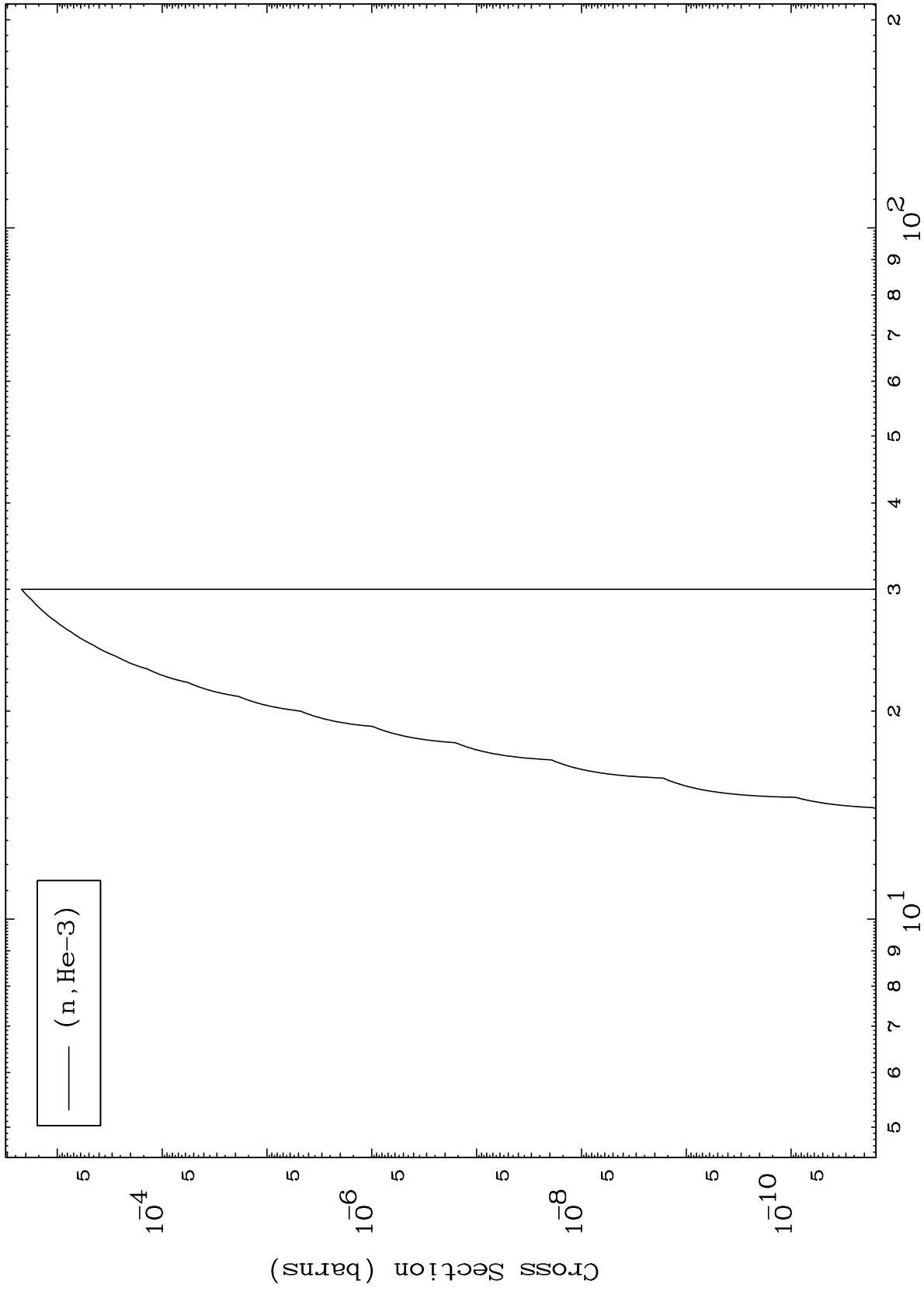
Incident Energy (MeV)

60-Nd-142

MAT 6025

(n,He3) Levels
293 Kelvin Cross Sections

60-Nd-142



13

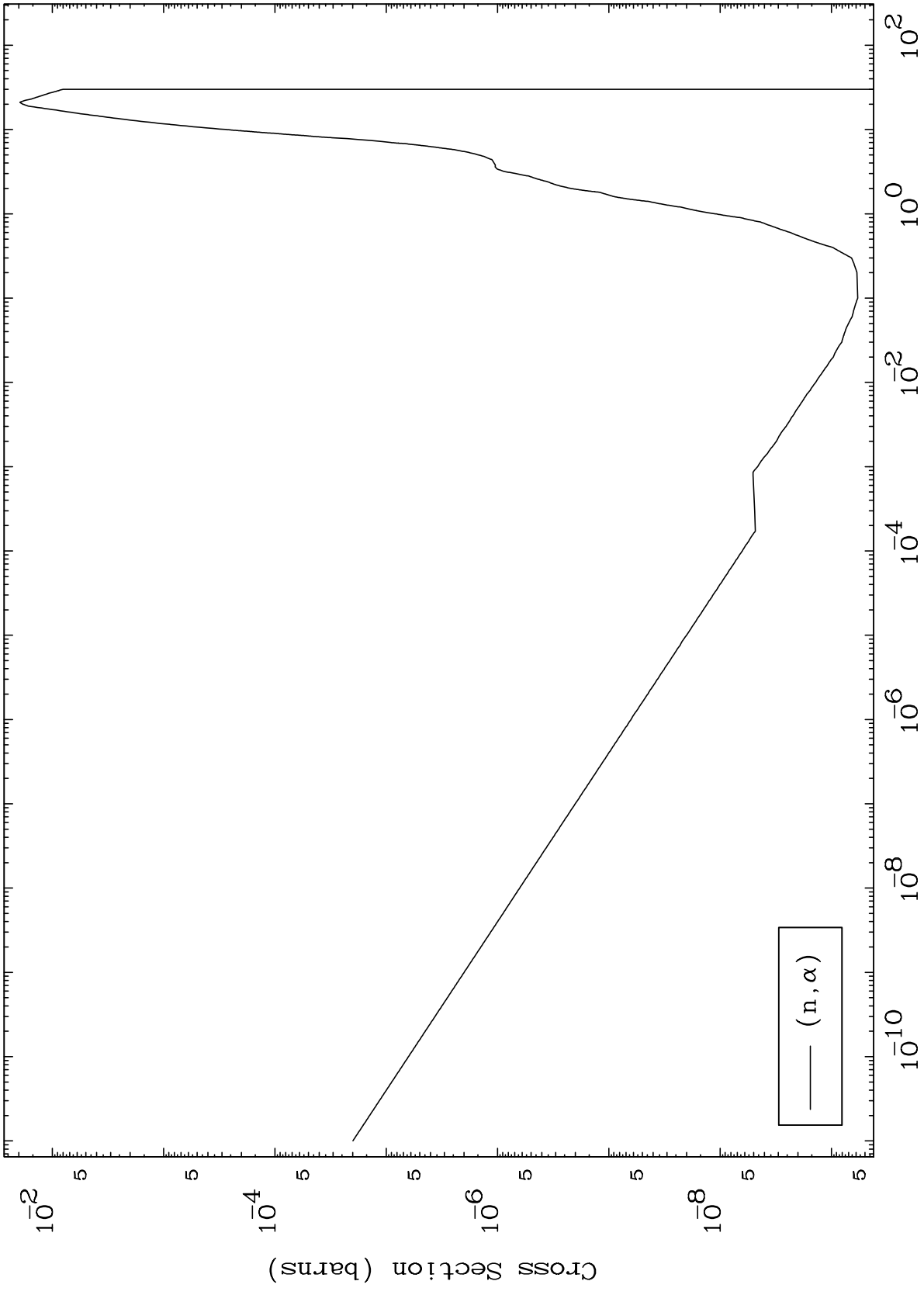
Incident Energy (MeV)

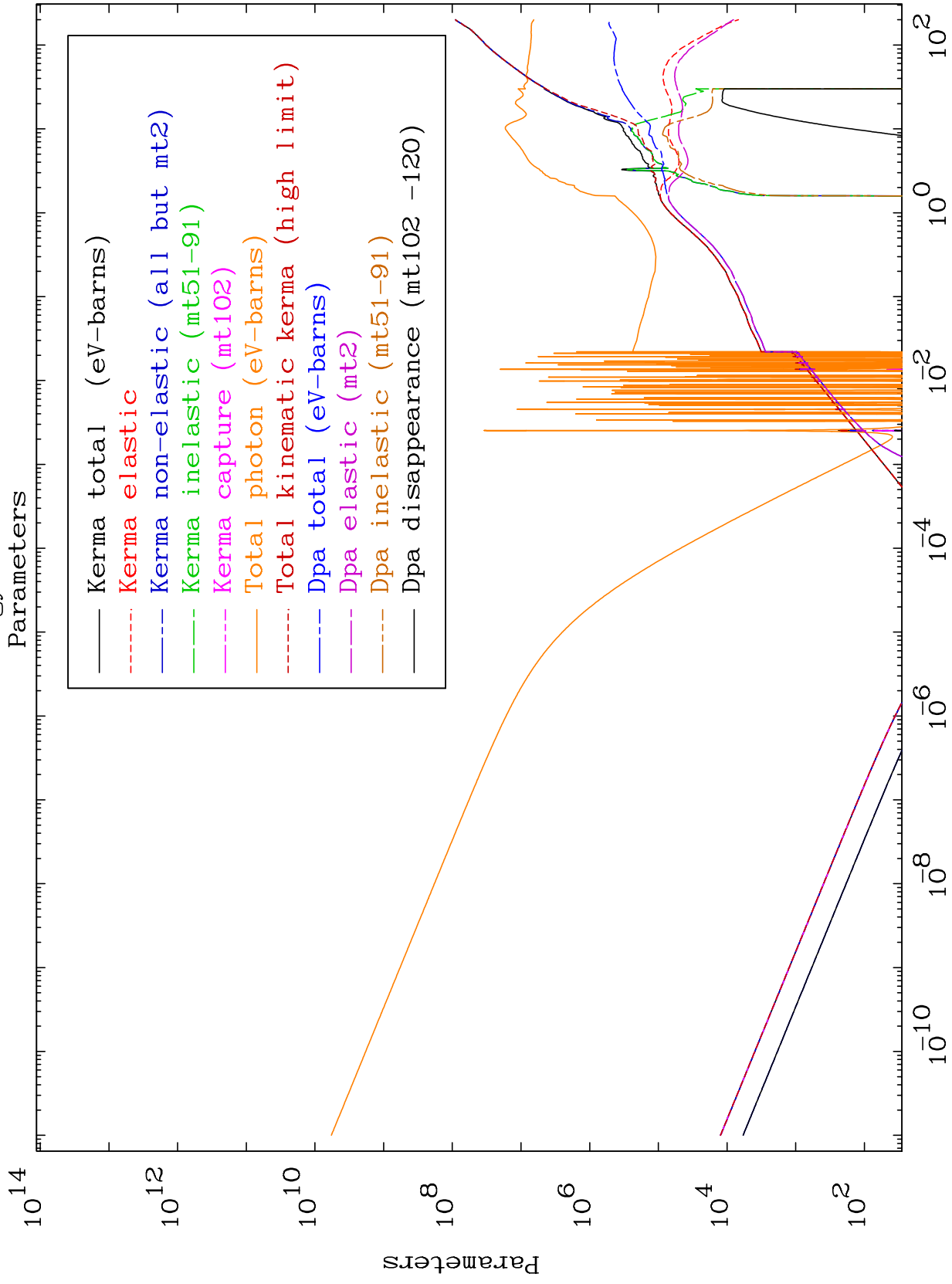
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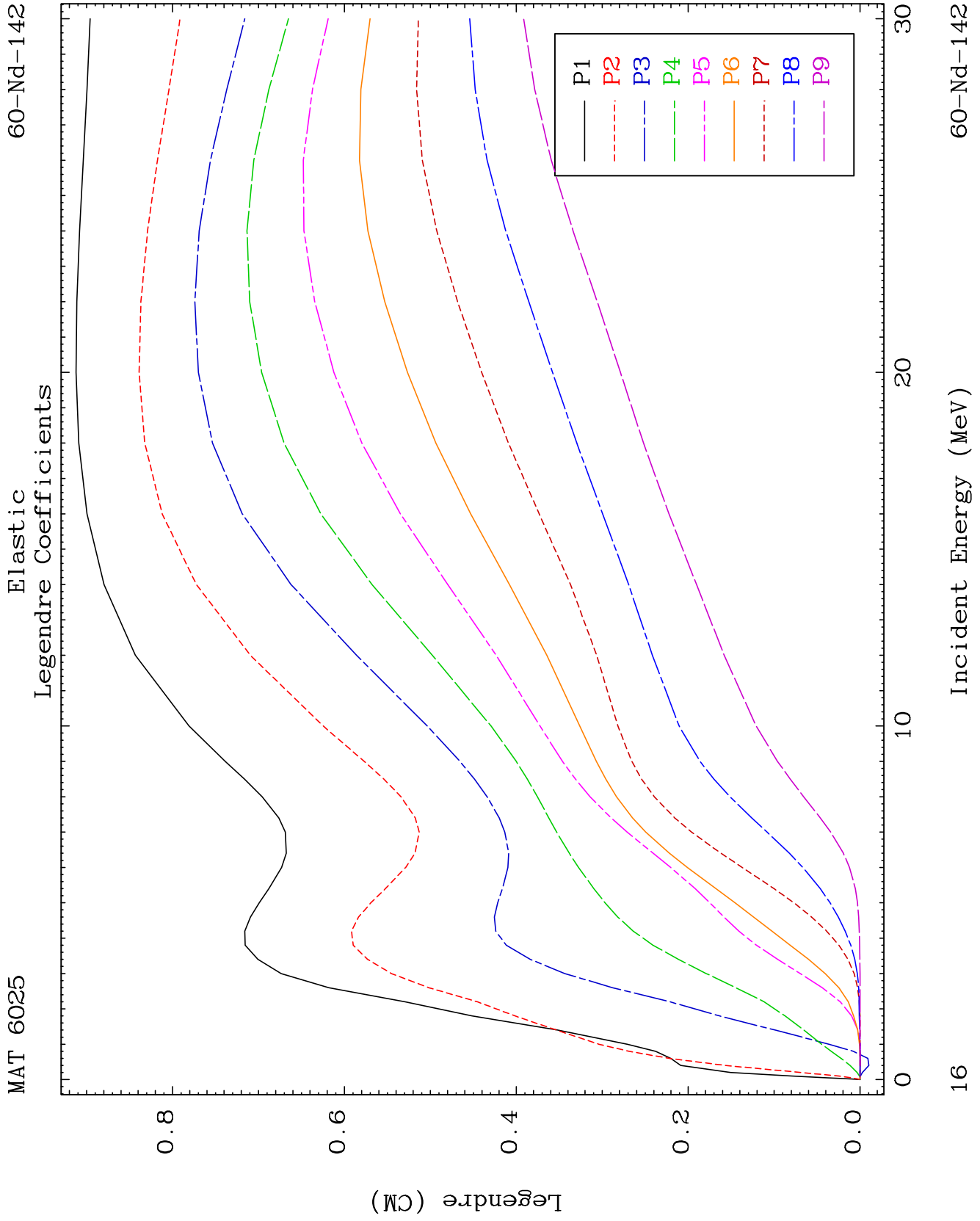
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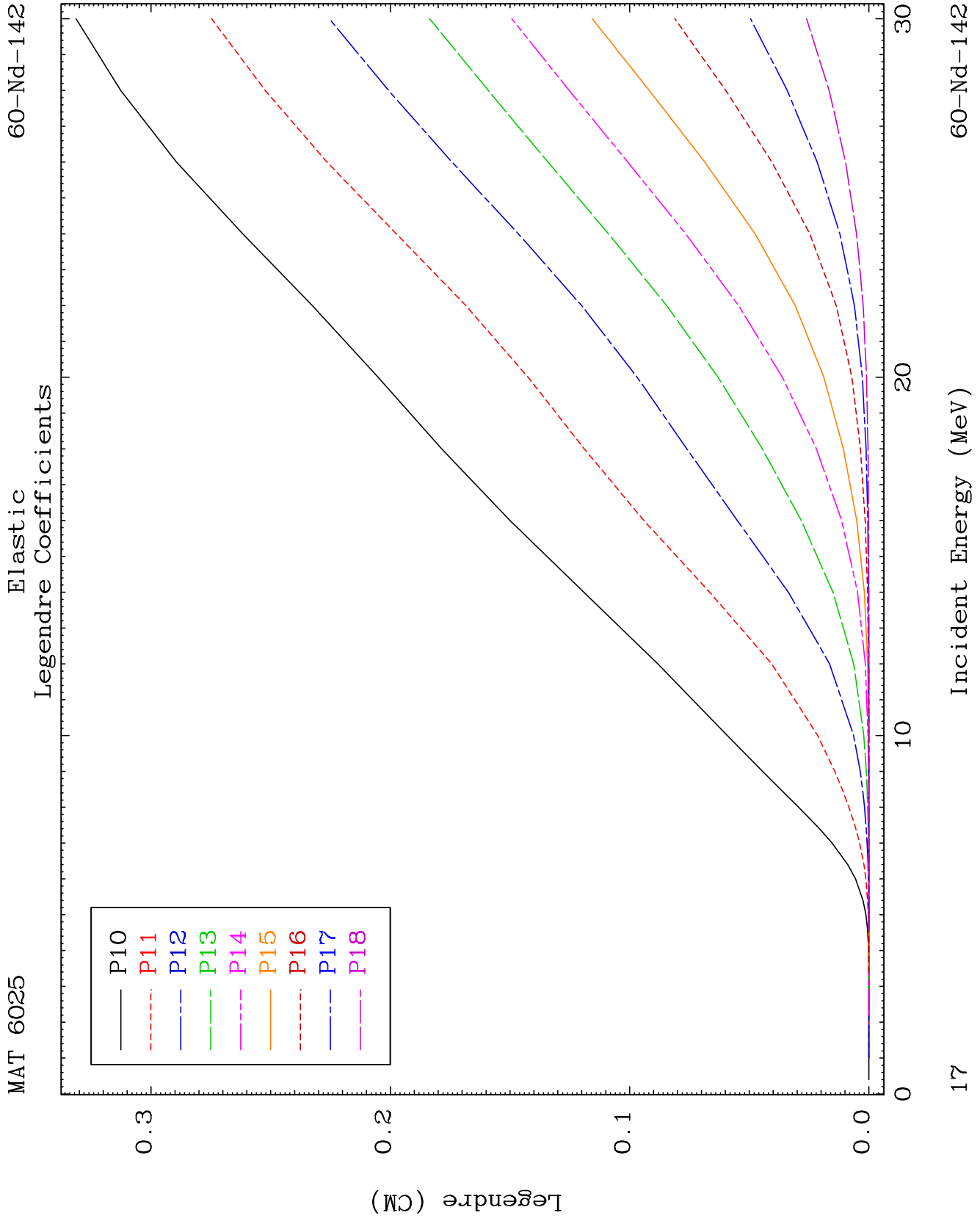
(n,α) Levels
293 Kelvin Cross Sections

60-Nd-142





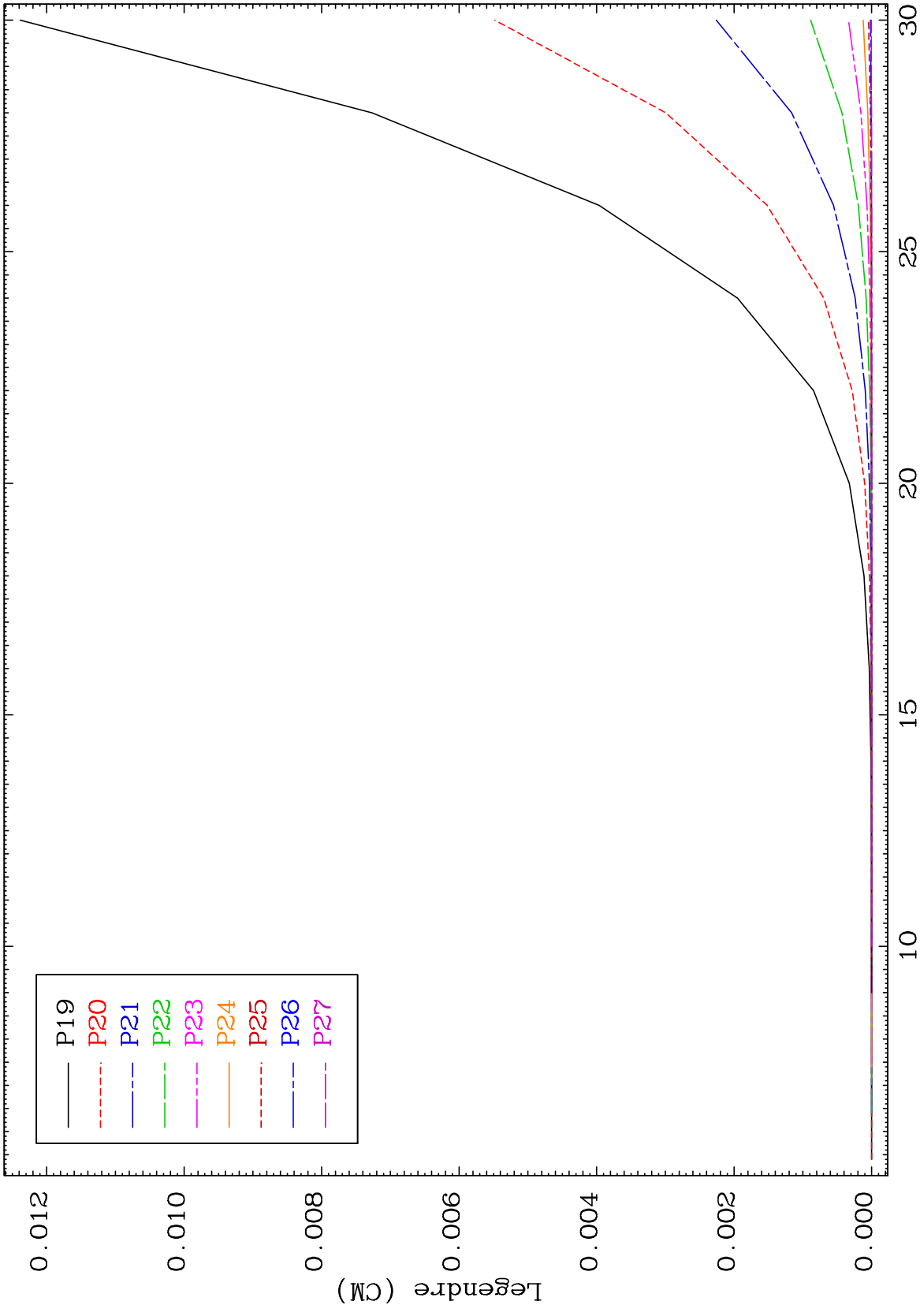




MAT 6025

Elastic Legendre Coefficients

60-Nd-142



18

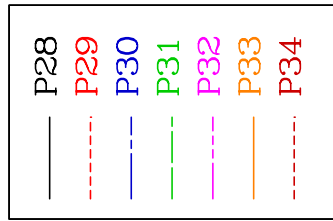
Incident Energy (MeV)

60-Nd-142

MAT 6025

Elastic Legendre Coefficients

60-Nd-142



$\times 10^{-6}$

1.2

0.8

0.4

0.0

Legendre (CM)

10

15

20

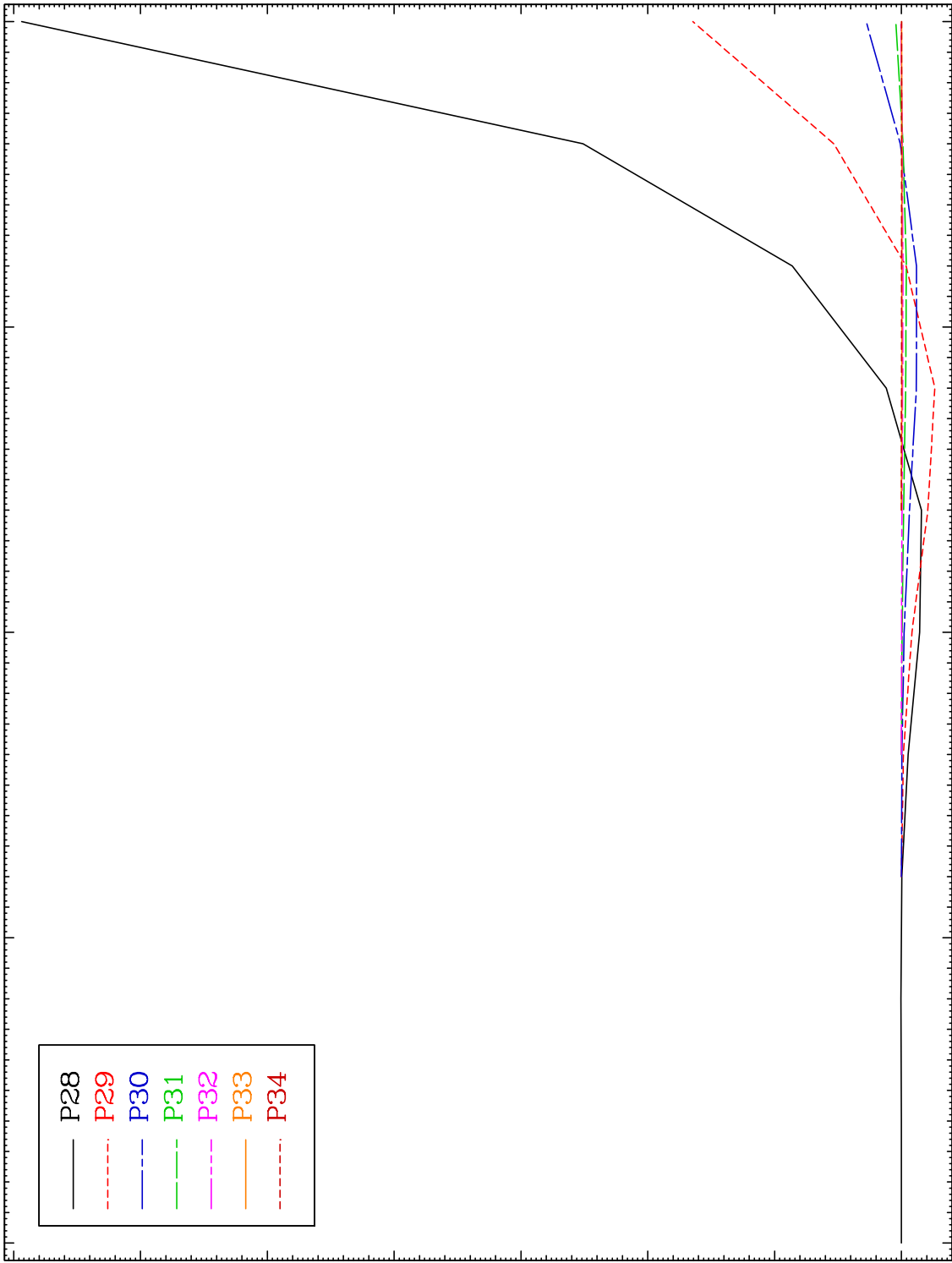
25

30

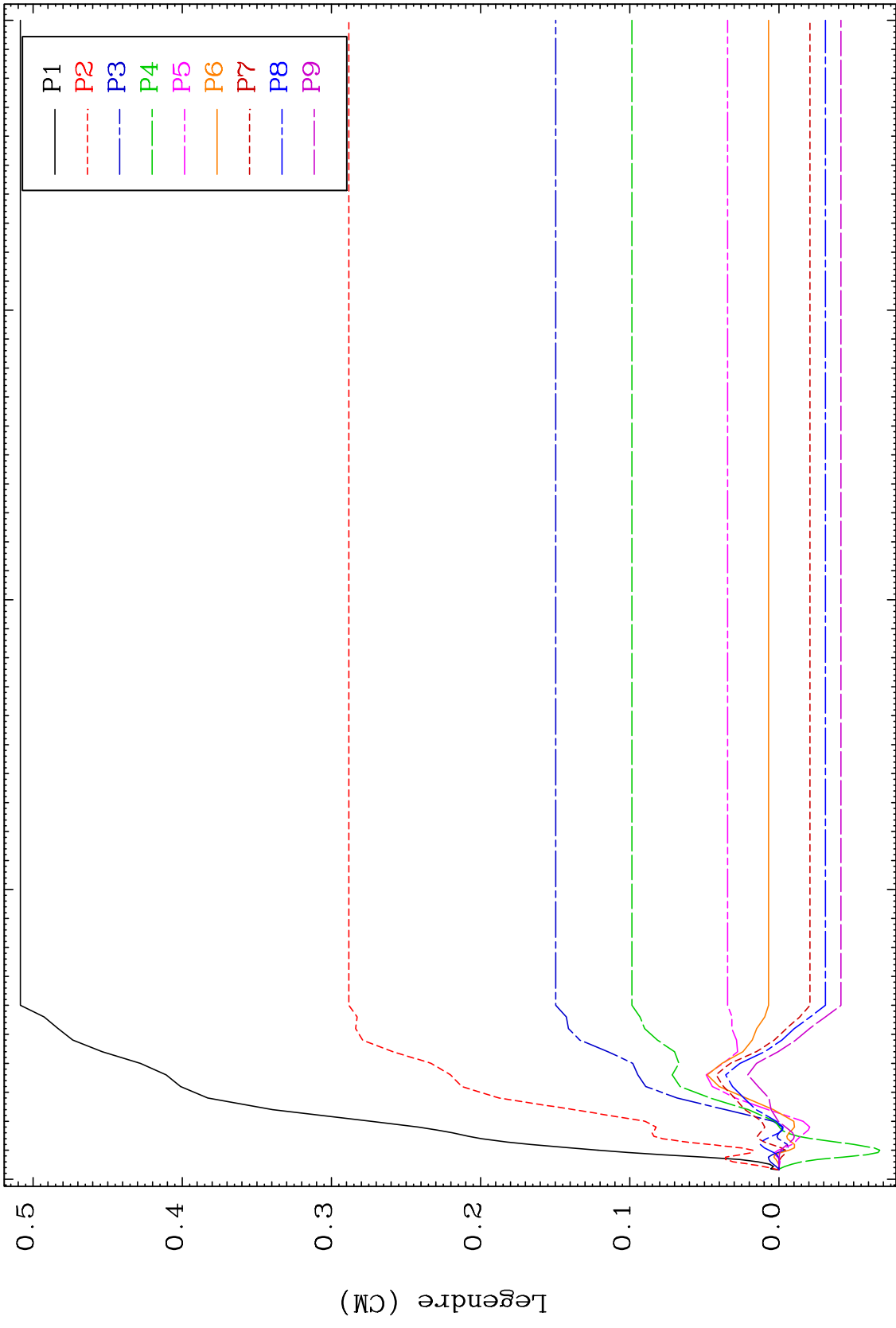
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Incident Energy (MeV)

60-Nd-142

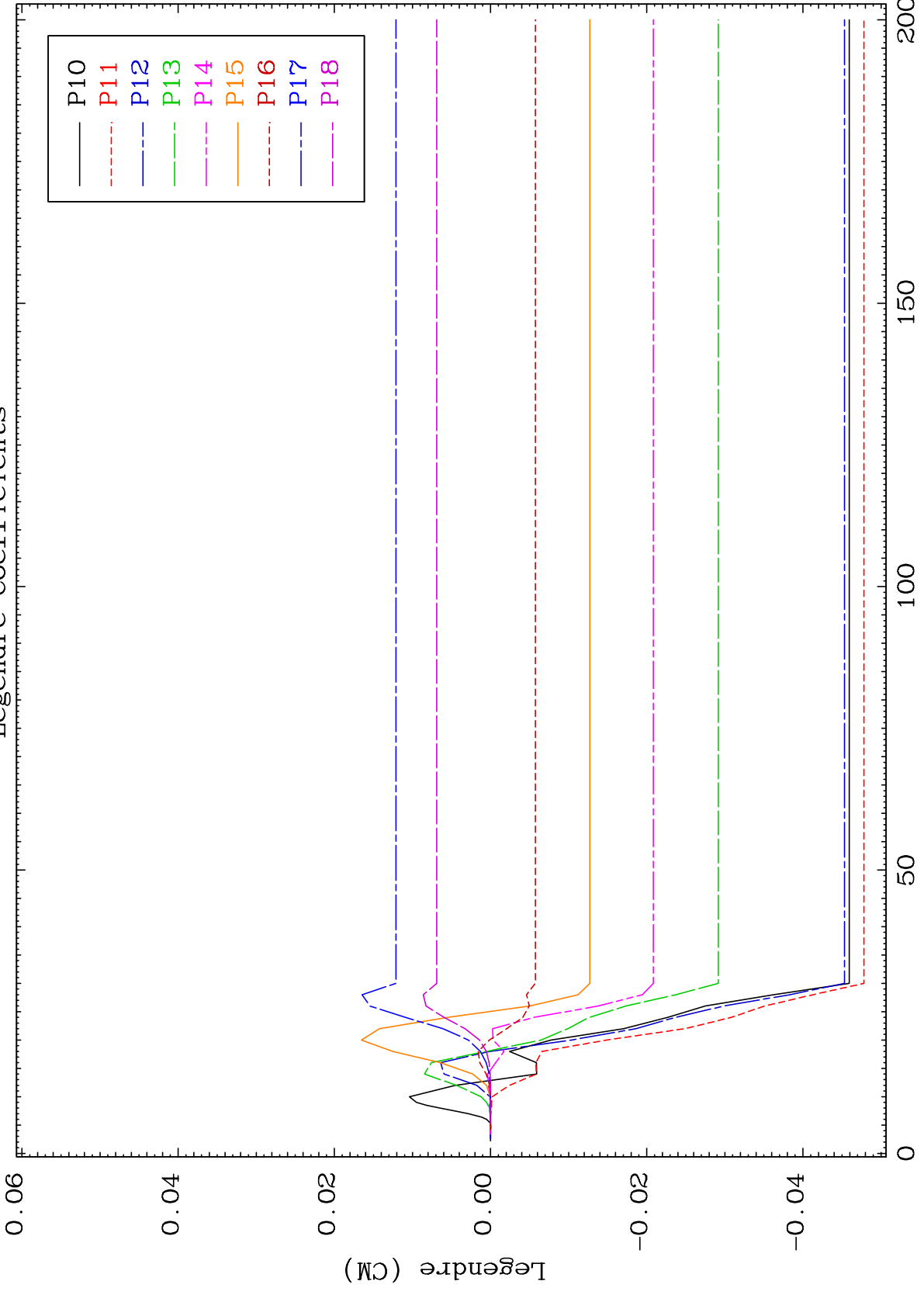


MAT 6025 MT= 51 (n,n') Level Legendre Coefficients 60-Nd-142



60-Nd-142 Incident Energy (MeV)

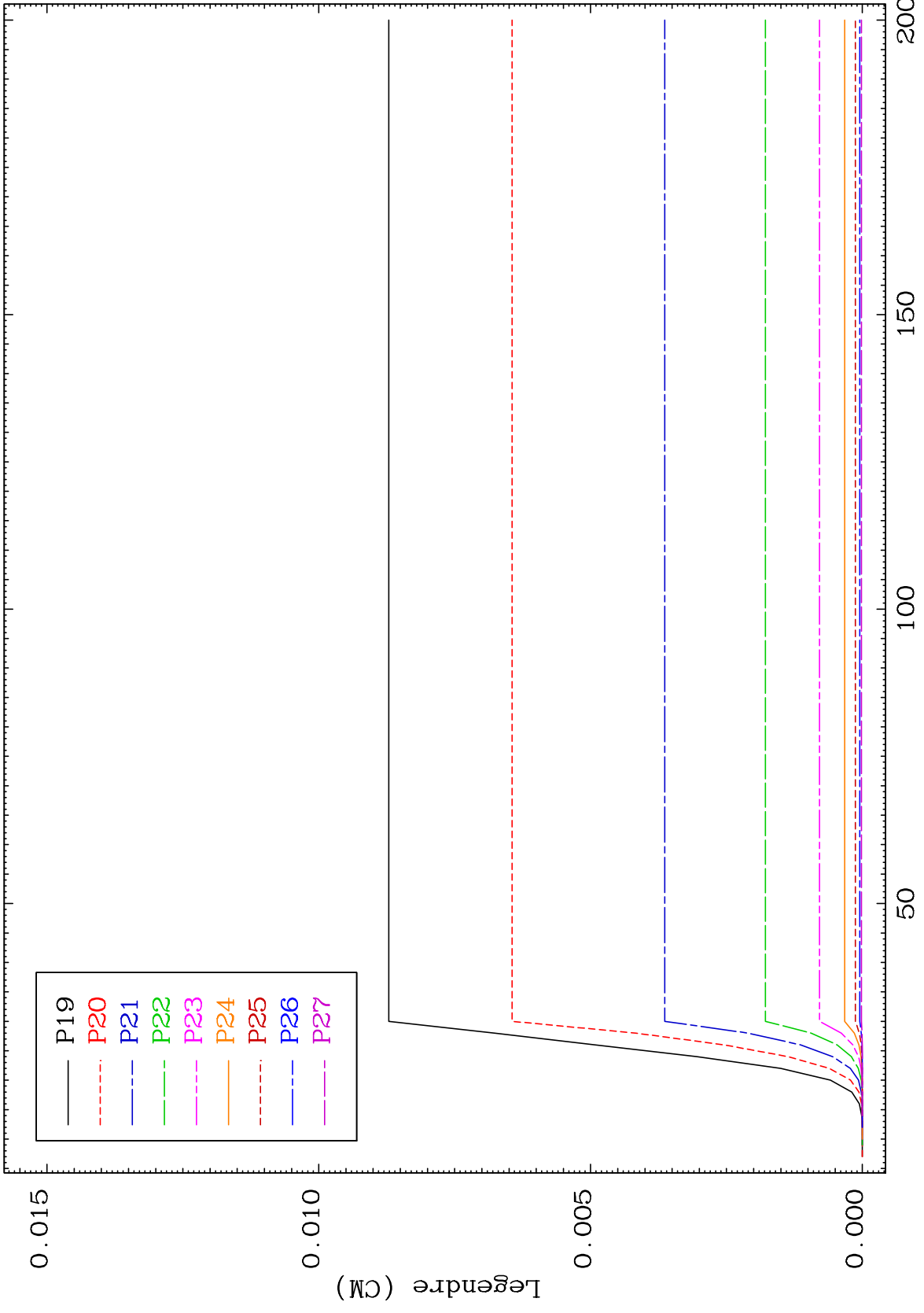
MAT 6025 MT= 51 (n,n') Level Legendre Coefficients 60-Nd-142



MAT 6025

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

60-Nd-142



22

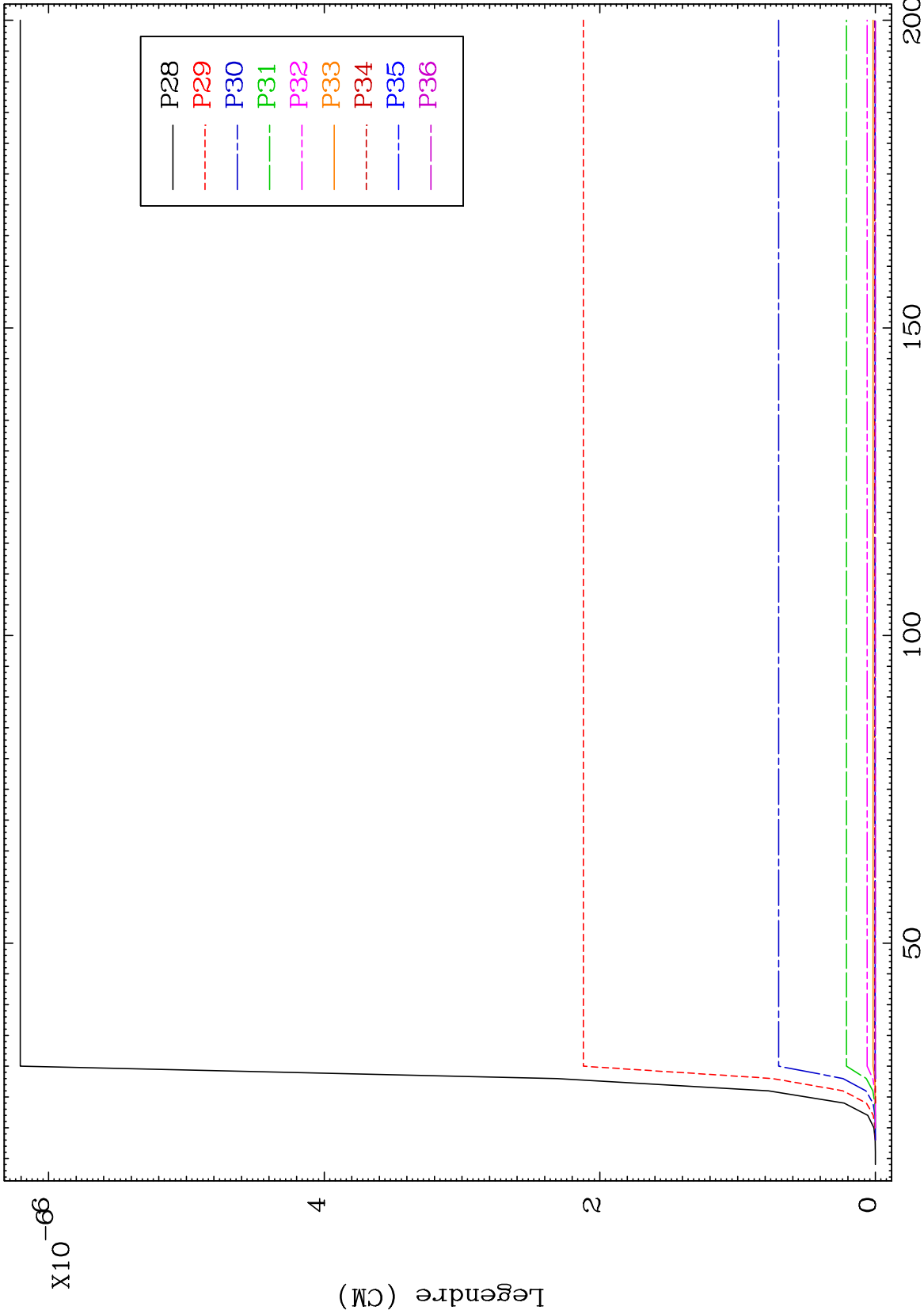
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

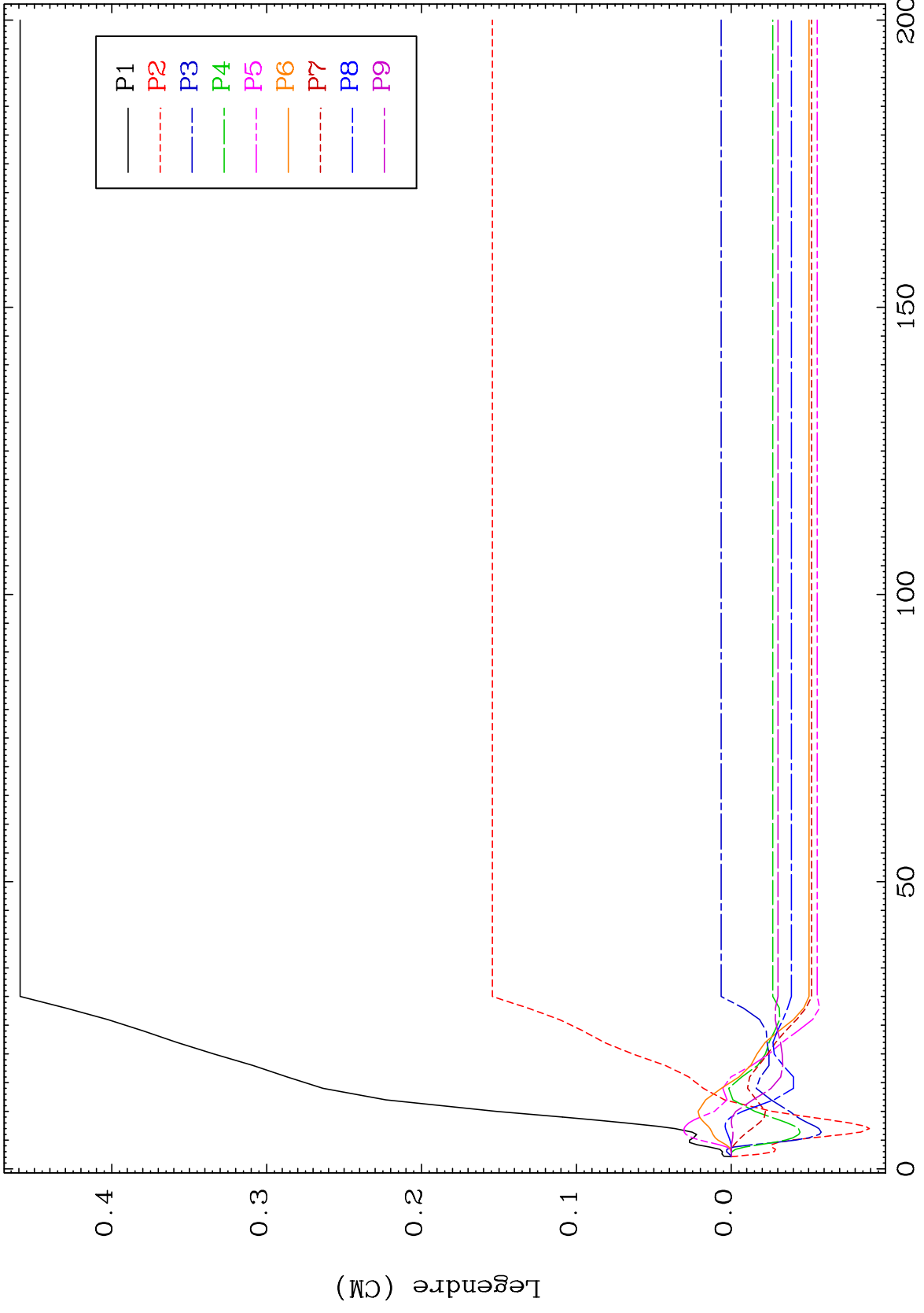
60-Nd-142



23

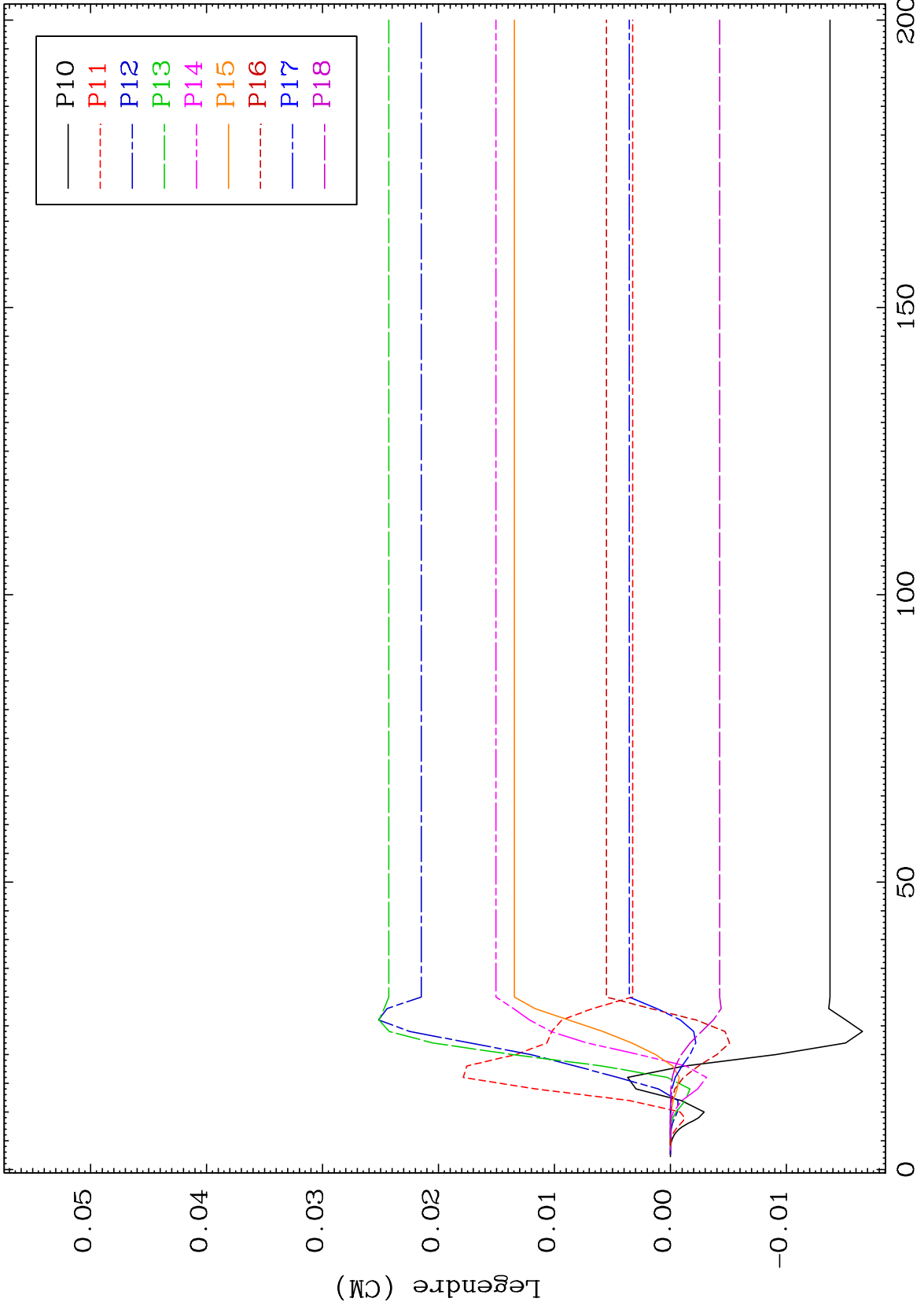
60-Nd-142

MAT 6025 MT= 52 (n,n') Level Legendre Coefficients 60-Nd-142



24 60-Nd-142

MAT 6025 MT= 52 (n,n') Level Legendre Coefficients 60-Nd-142

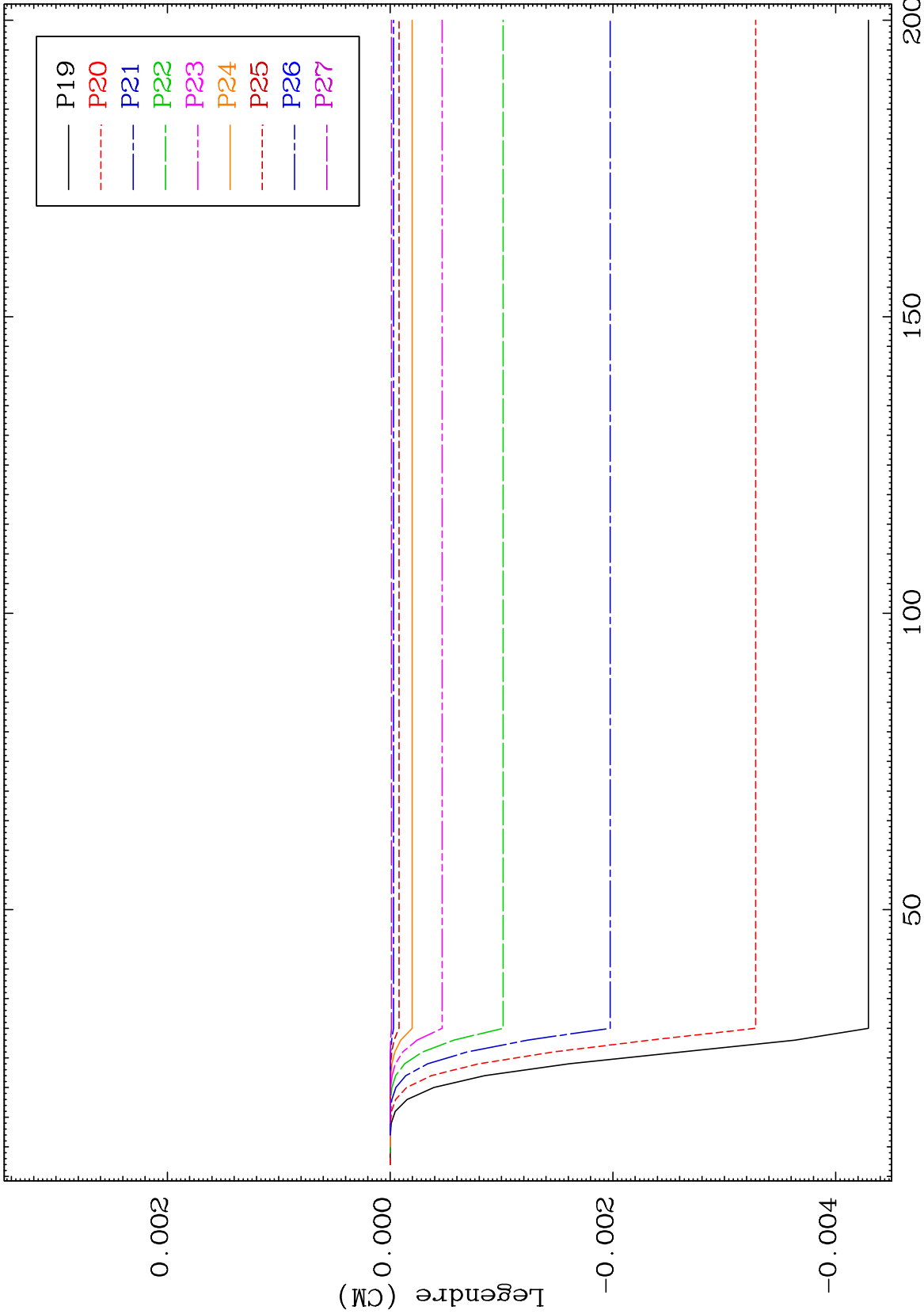


25 Incident Energy (MeV) 60-Nd-142

MAT 6025

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

60-Nd-142



26

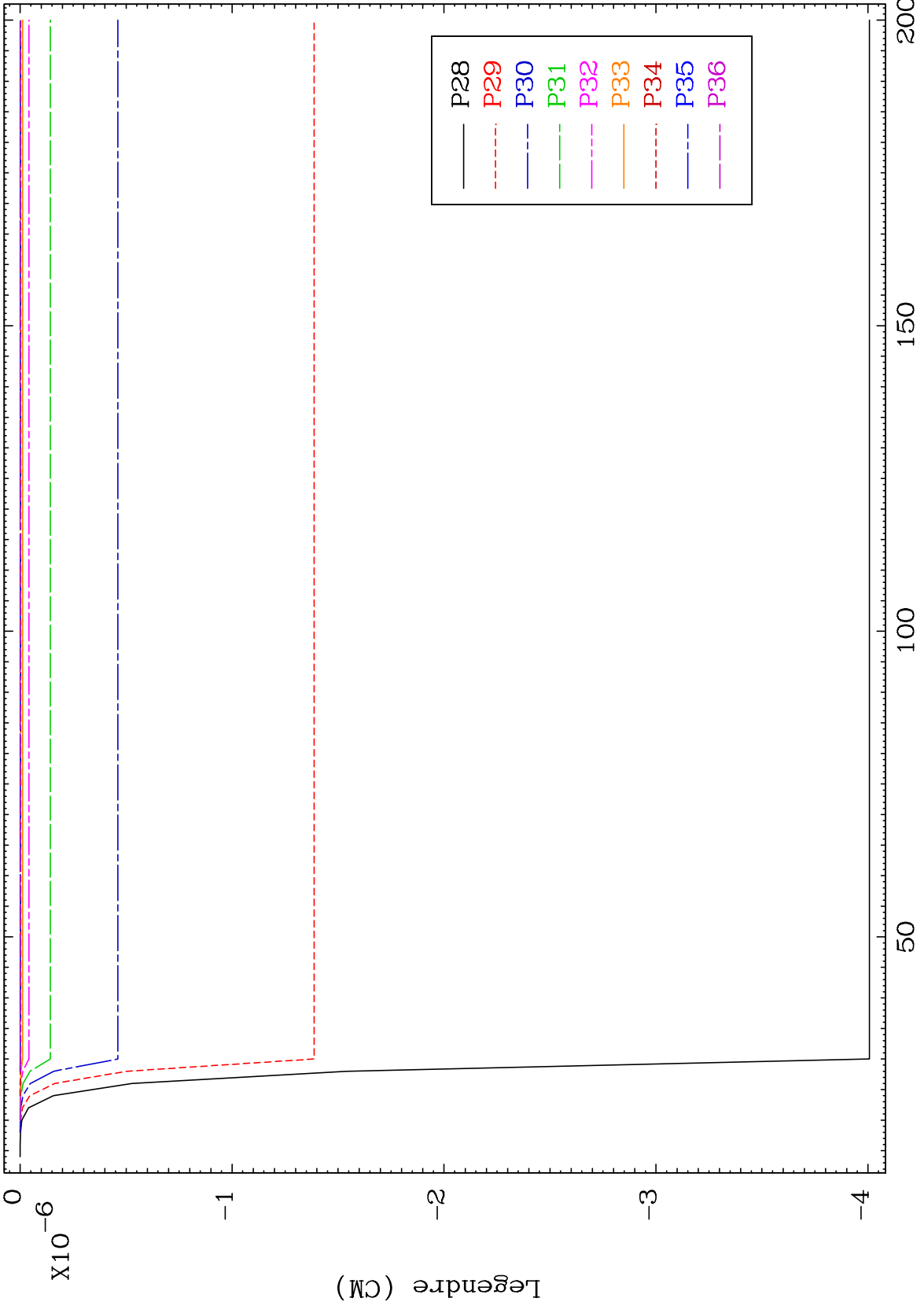
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142

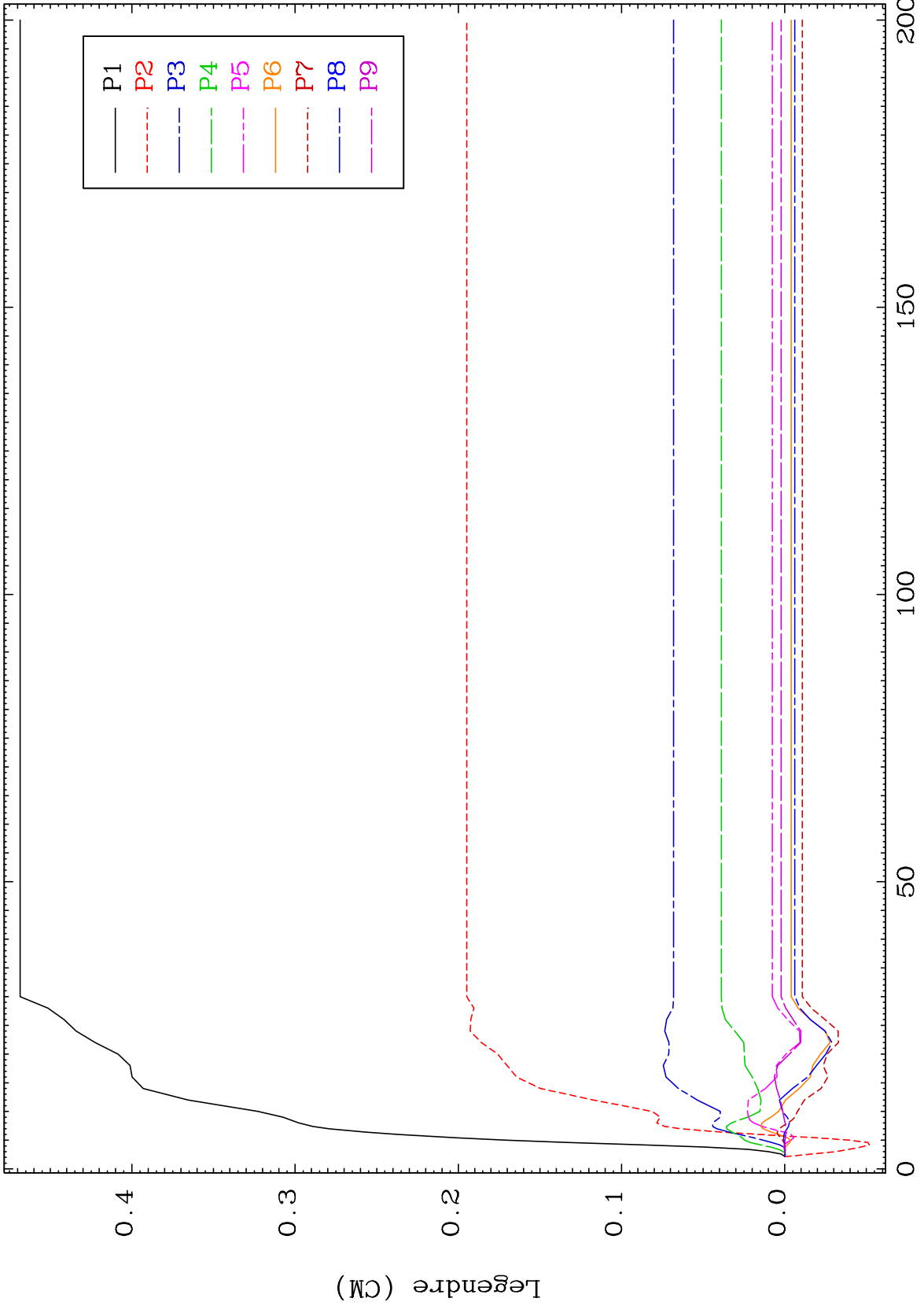


60-Nd-142

Incident Energy (MeV)

27

MAT 6025 MT= 53 (n,n') Level Legendre Coefficients 60-Nd-142



28 Incident Energy (MeV) 60-Nd-142

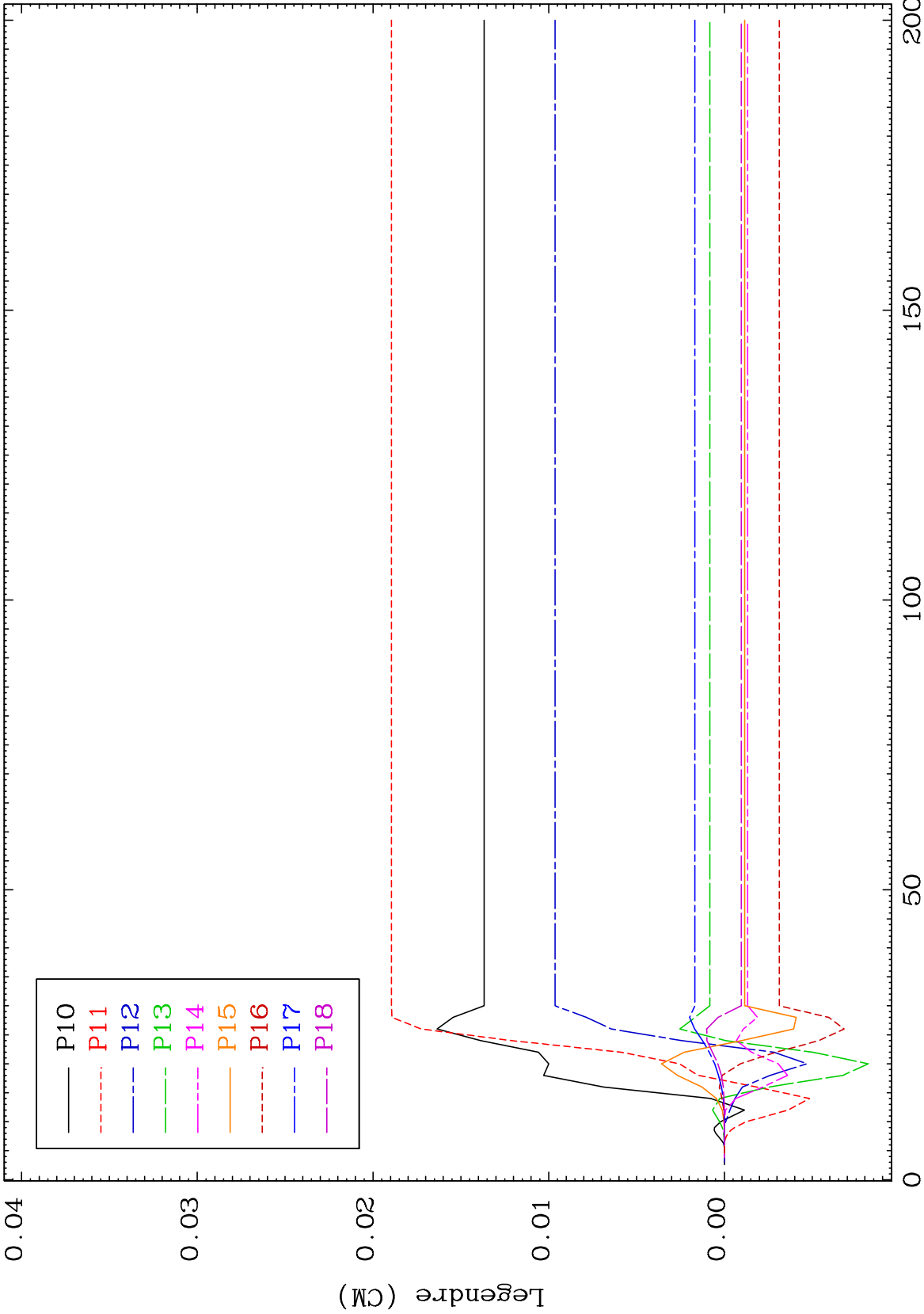
MAT 6025 MT= 53 (n,n') Level Legendre Coefficients

60-Nd-142

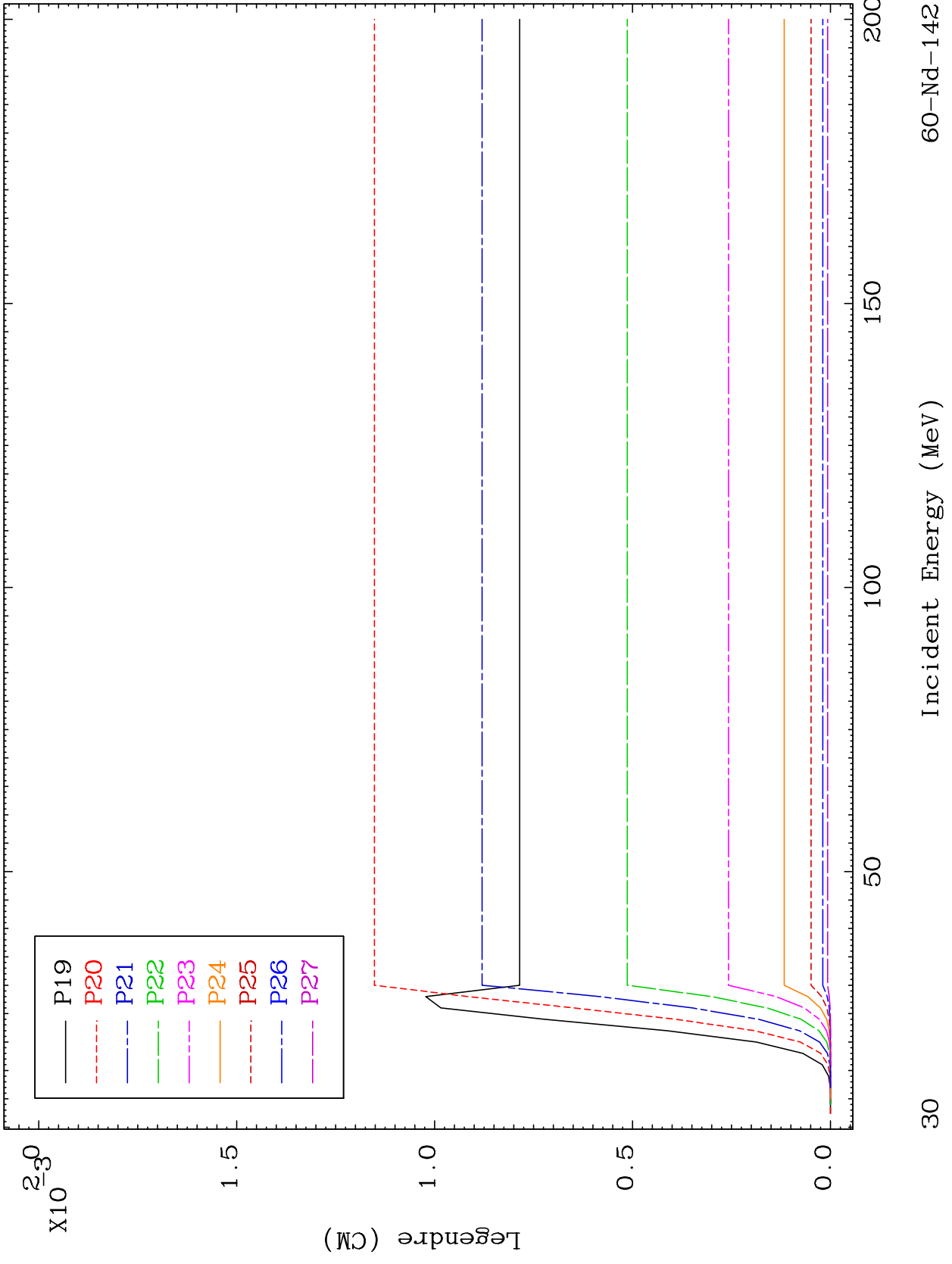
60-Nd-142

Incident Energy (MeV)

29



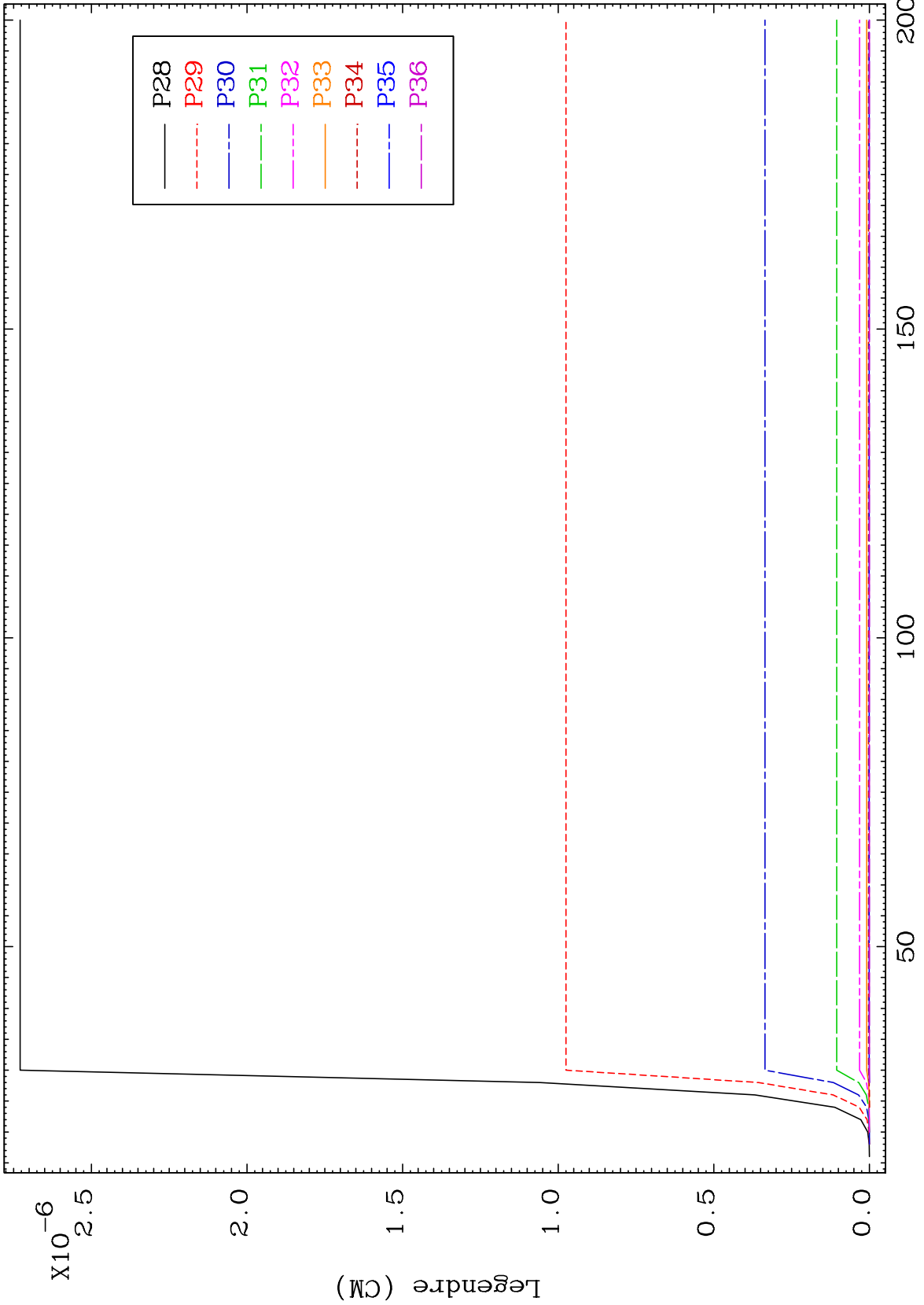
MAT 6025 MT= 53 (n,n') Level Legendre Coefficients 60-Nd-142



MAT 6025

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

60-Nd-142



31

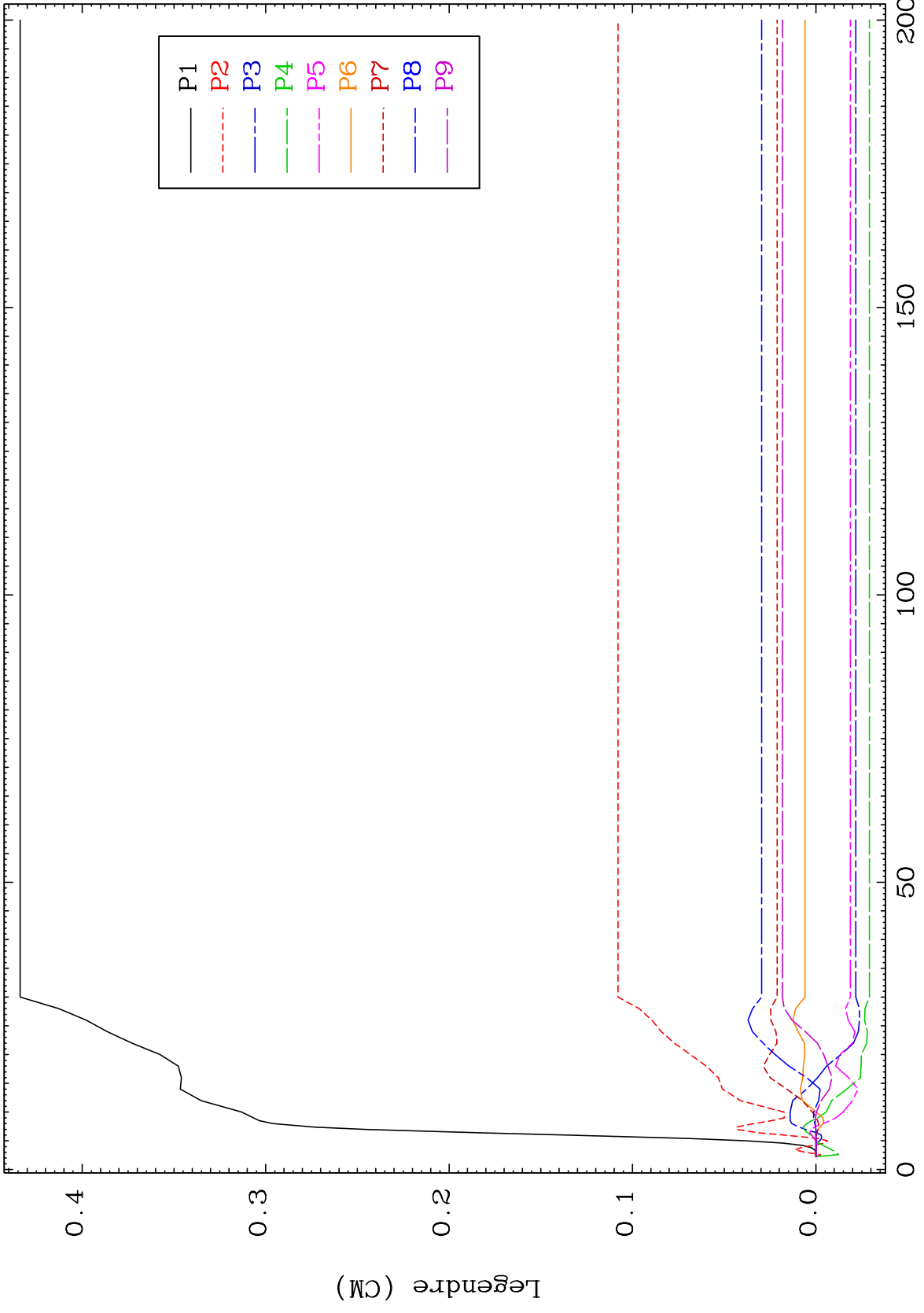
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142

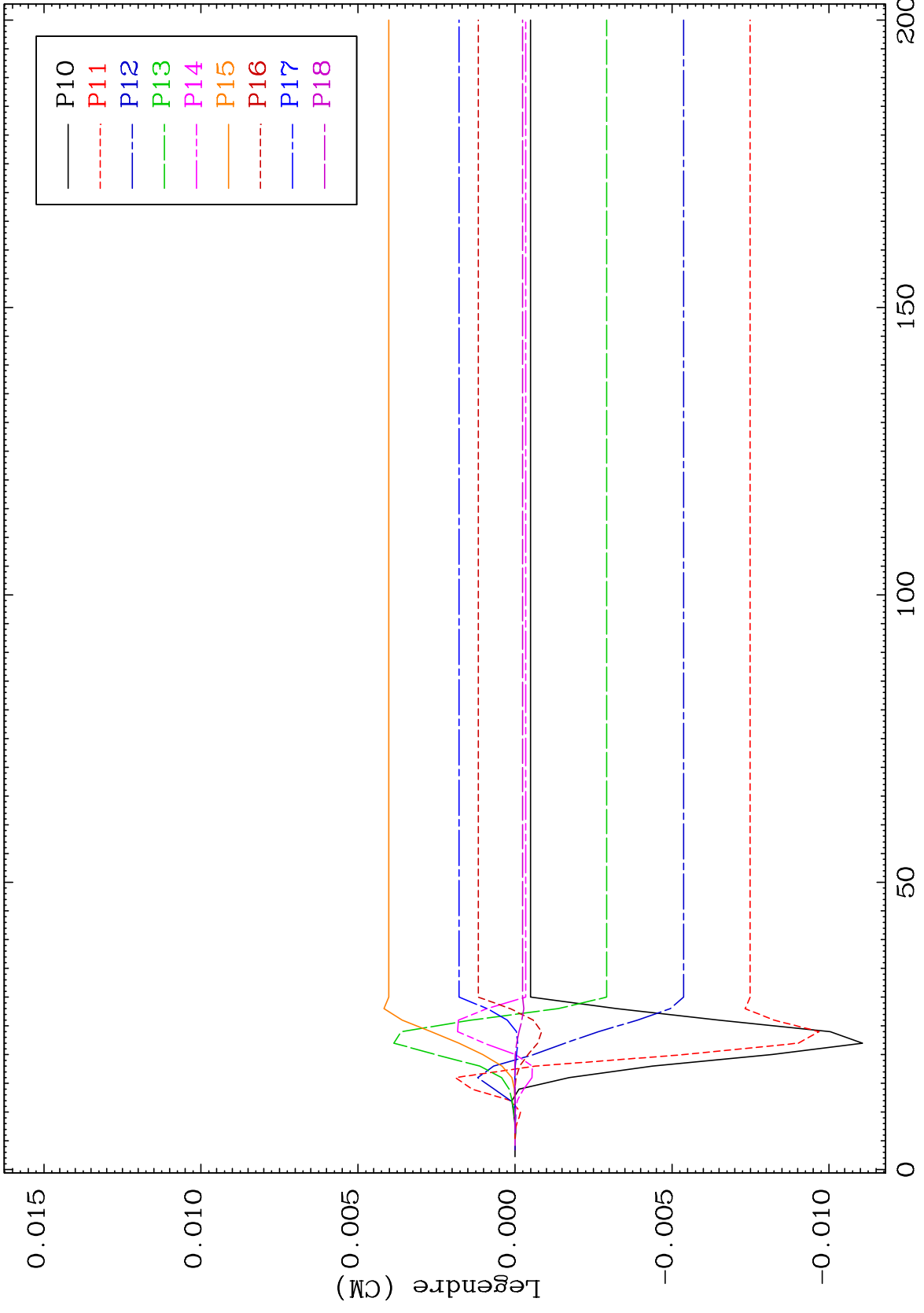


32

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 54 (n,n') Level Legendre Coefficients 60-Nd-142

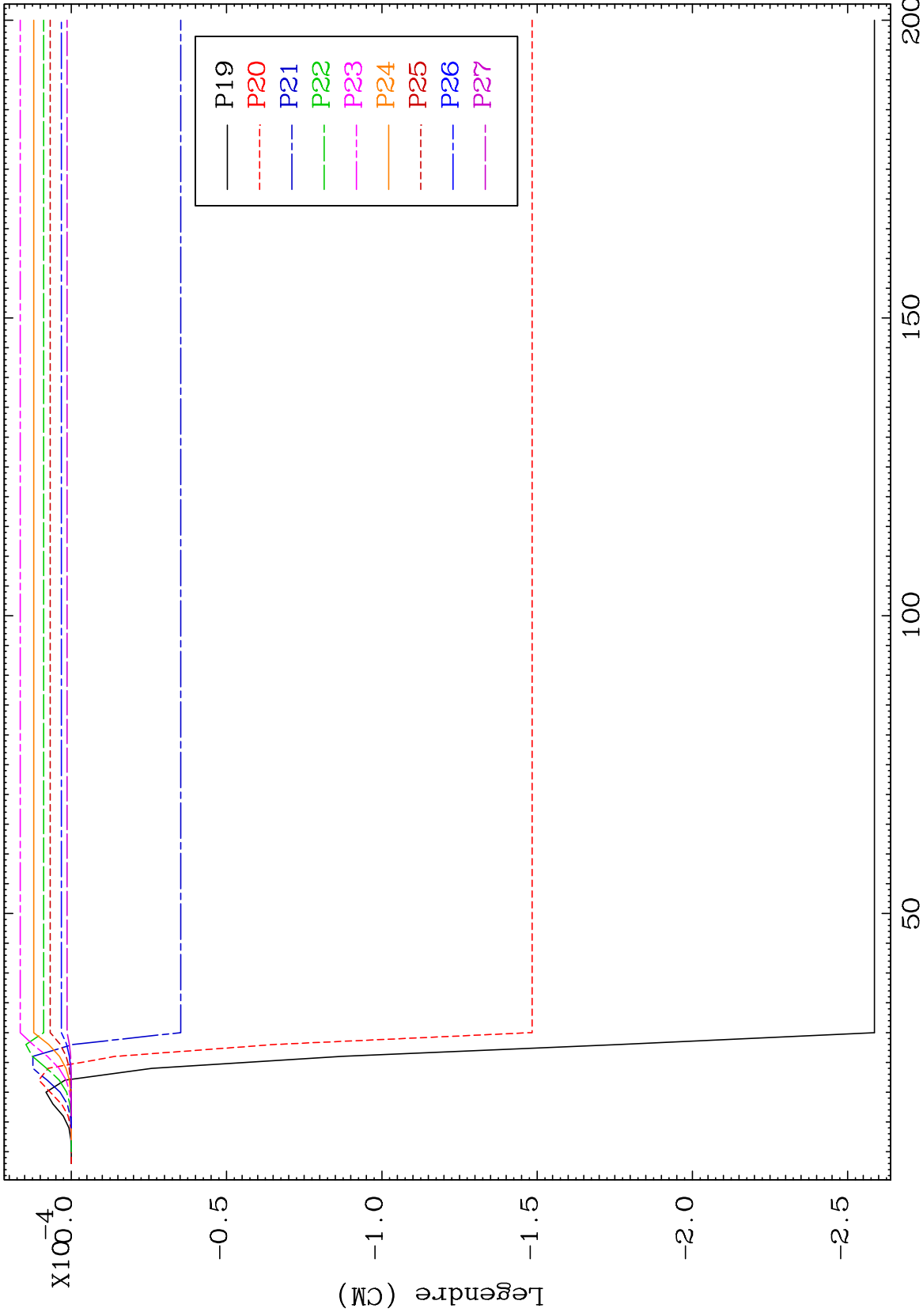


33 60-Nd-142

MAT 6025

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

60-Nd-142

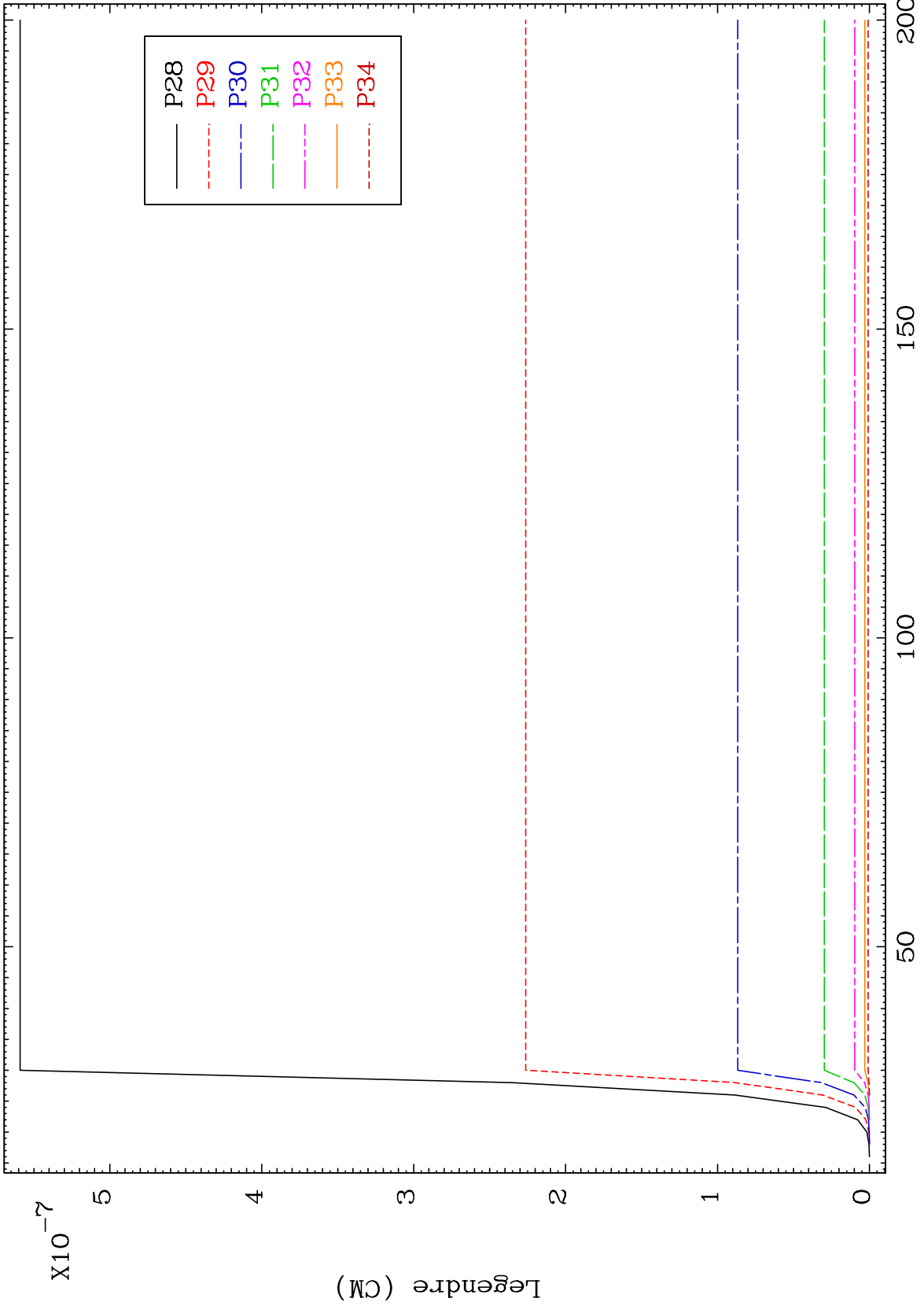


60-Nd-142

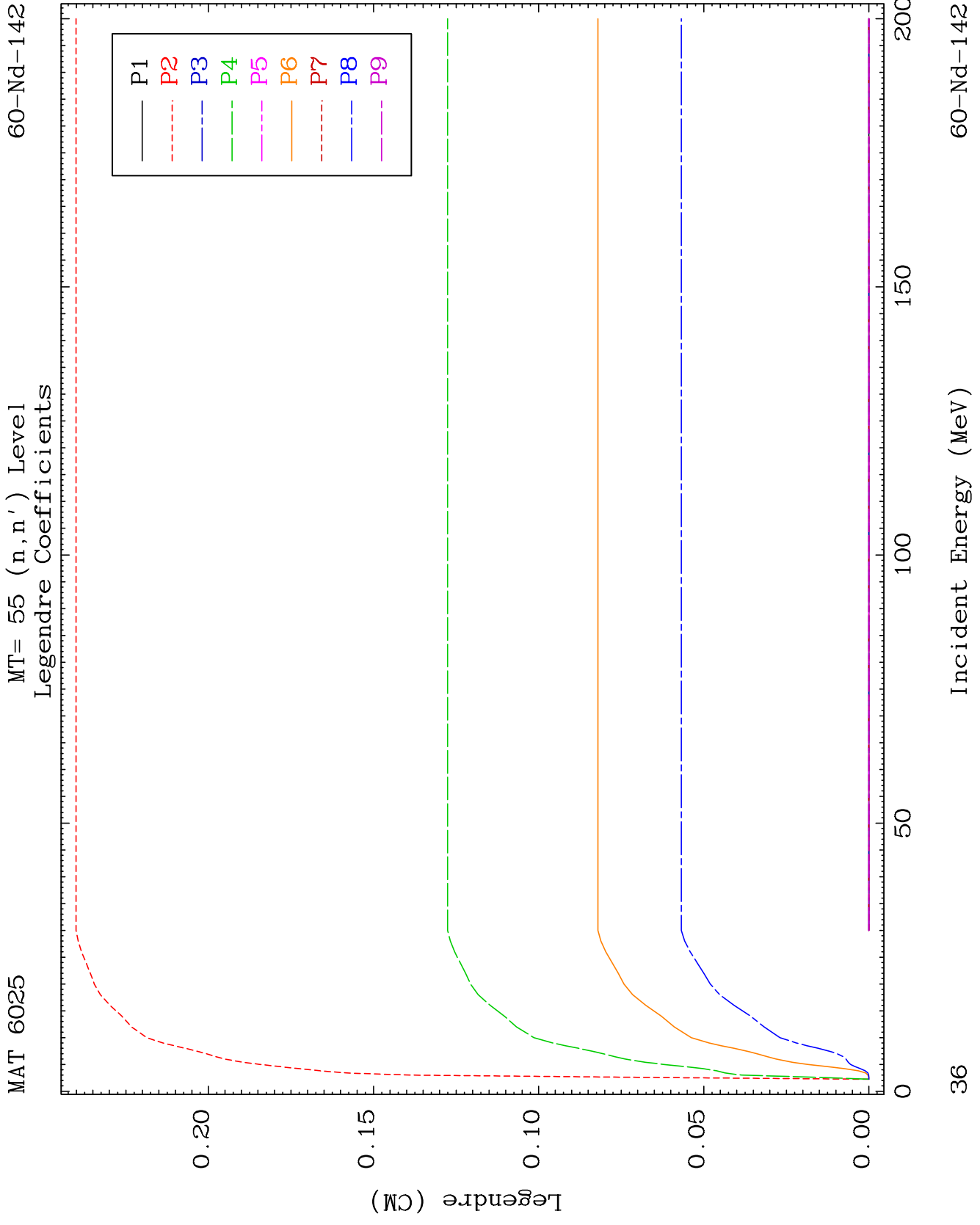
Incident Energy (MeV)

34

MAT 6025 MT= 54 (n,n') Level Legendre Coefficients 60-Nd-142



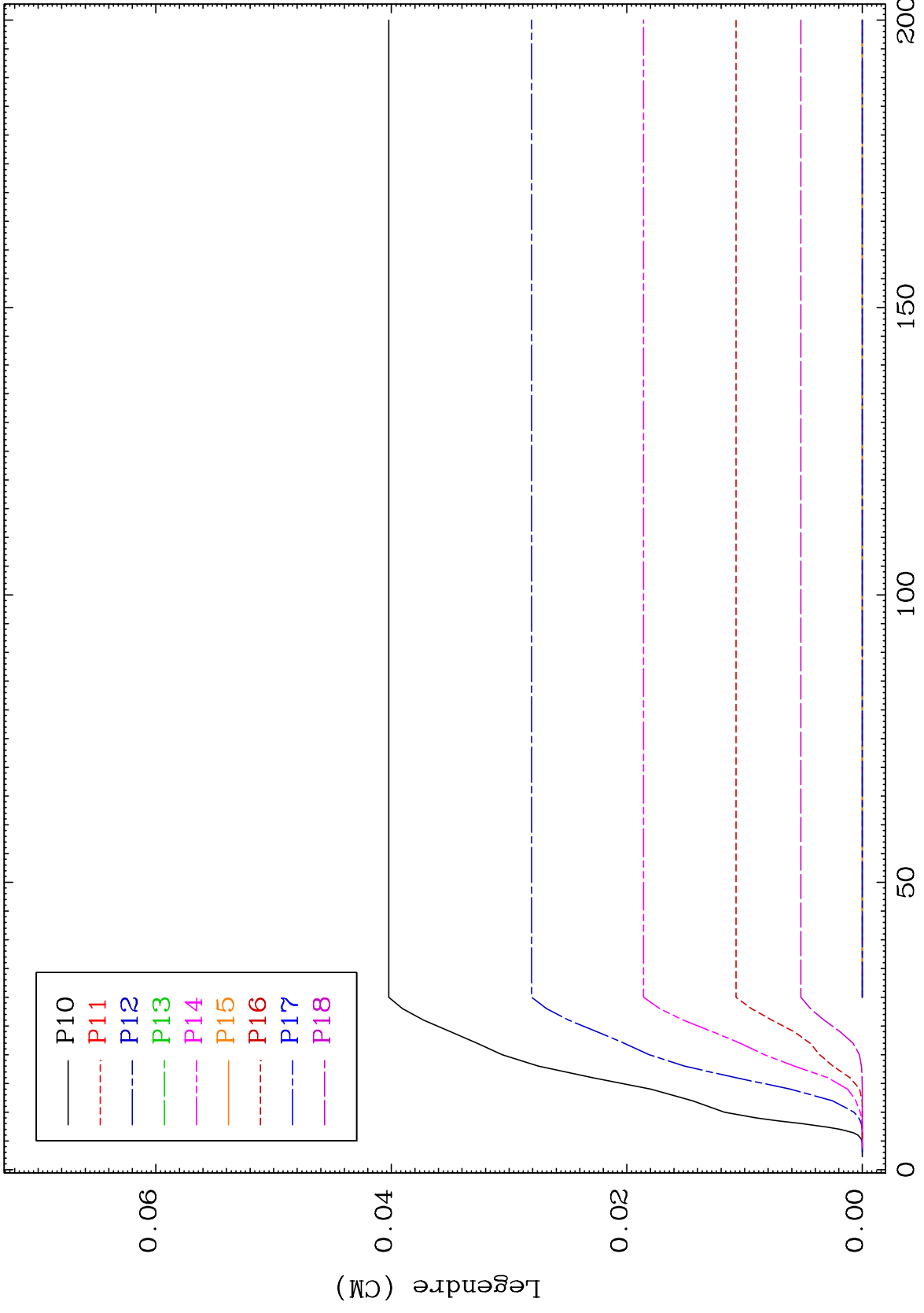
35 50 100 150 200 60-Nd-142



MAT 6025

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

60-Nd-142

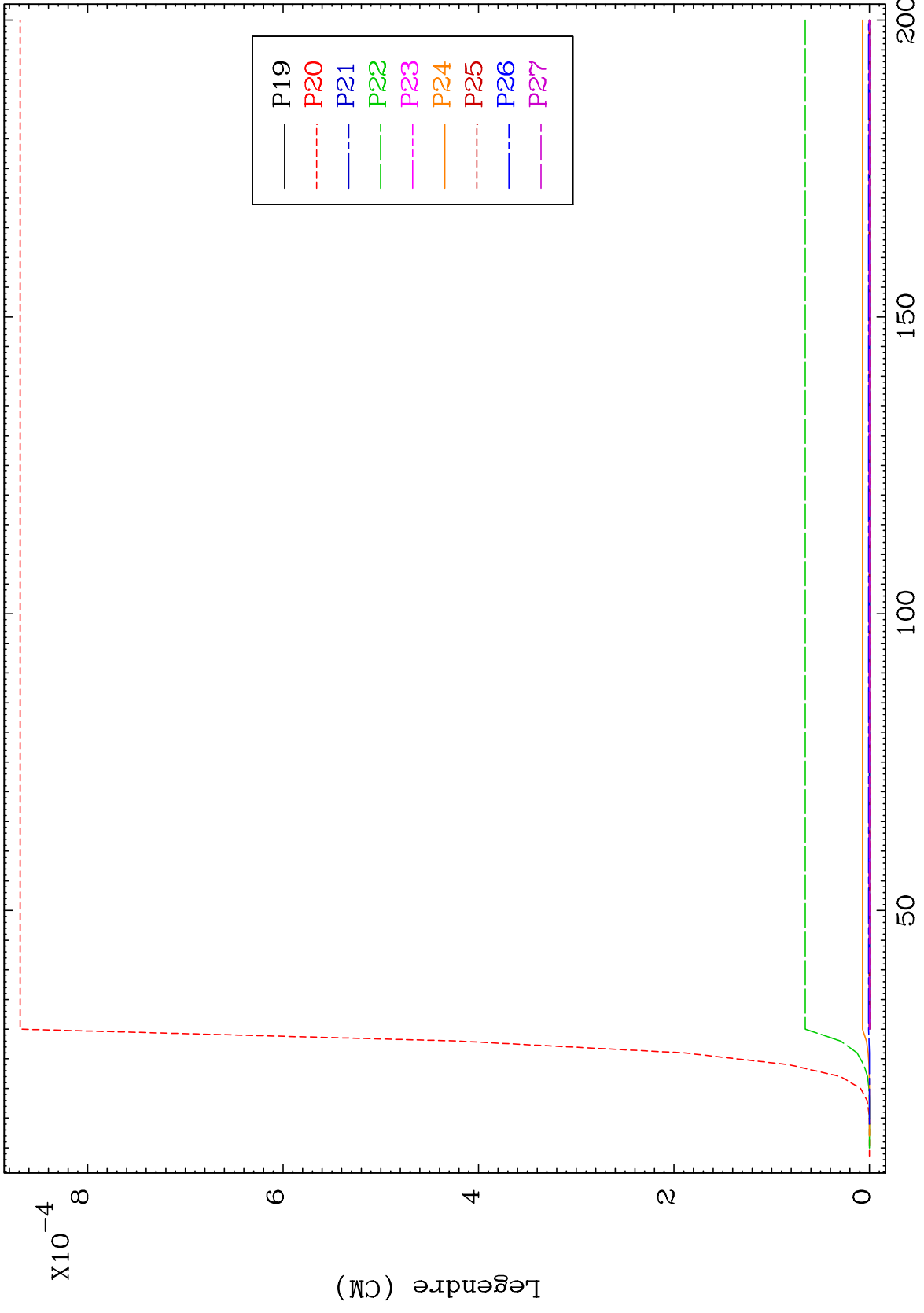


37

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 55 (n,n') Level Legendre Coefficients 60-Nd-142

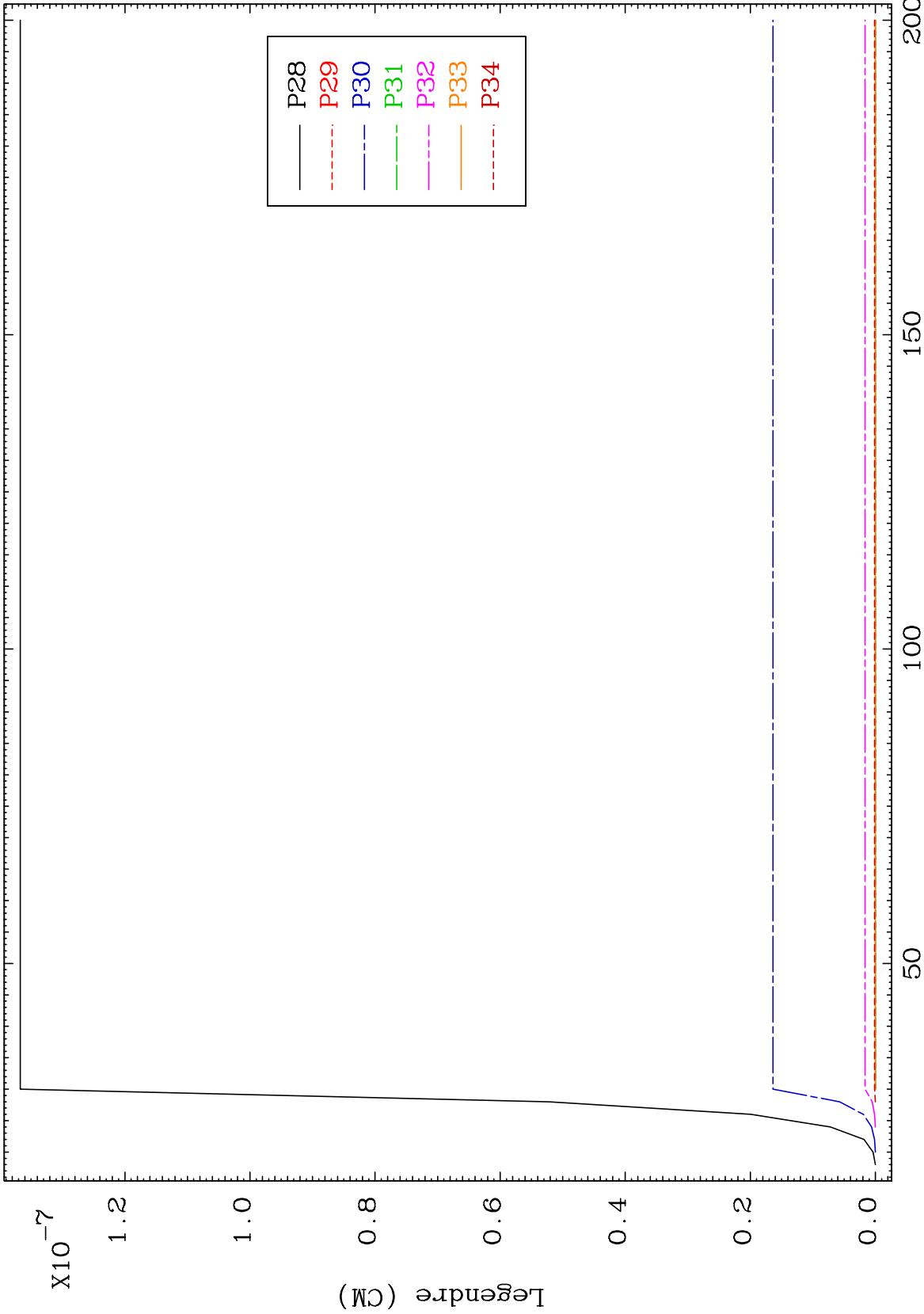


38 Incident Energy (MeV) 60-Nd-142

MAT 6025

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

60-Nd-142



39

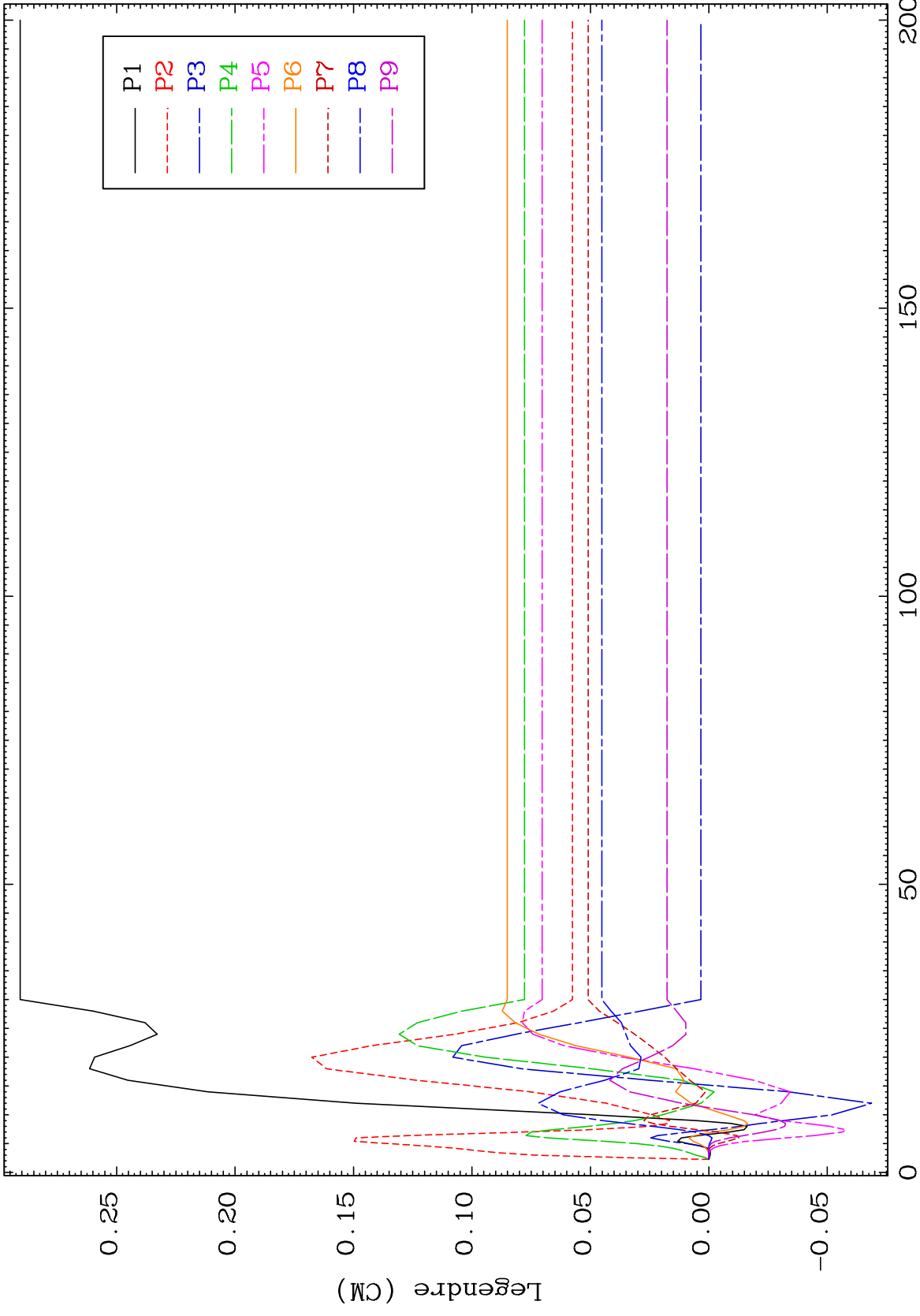
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142



40

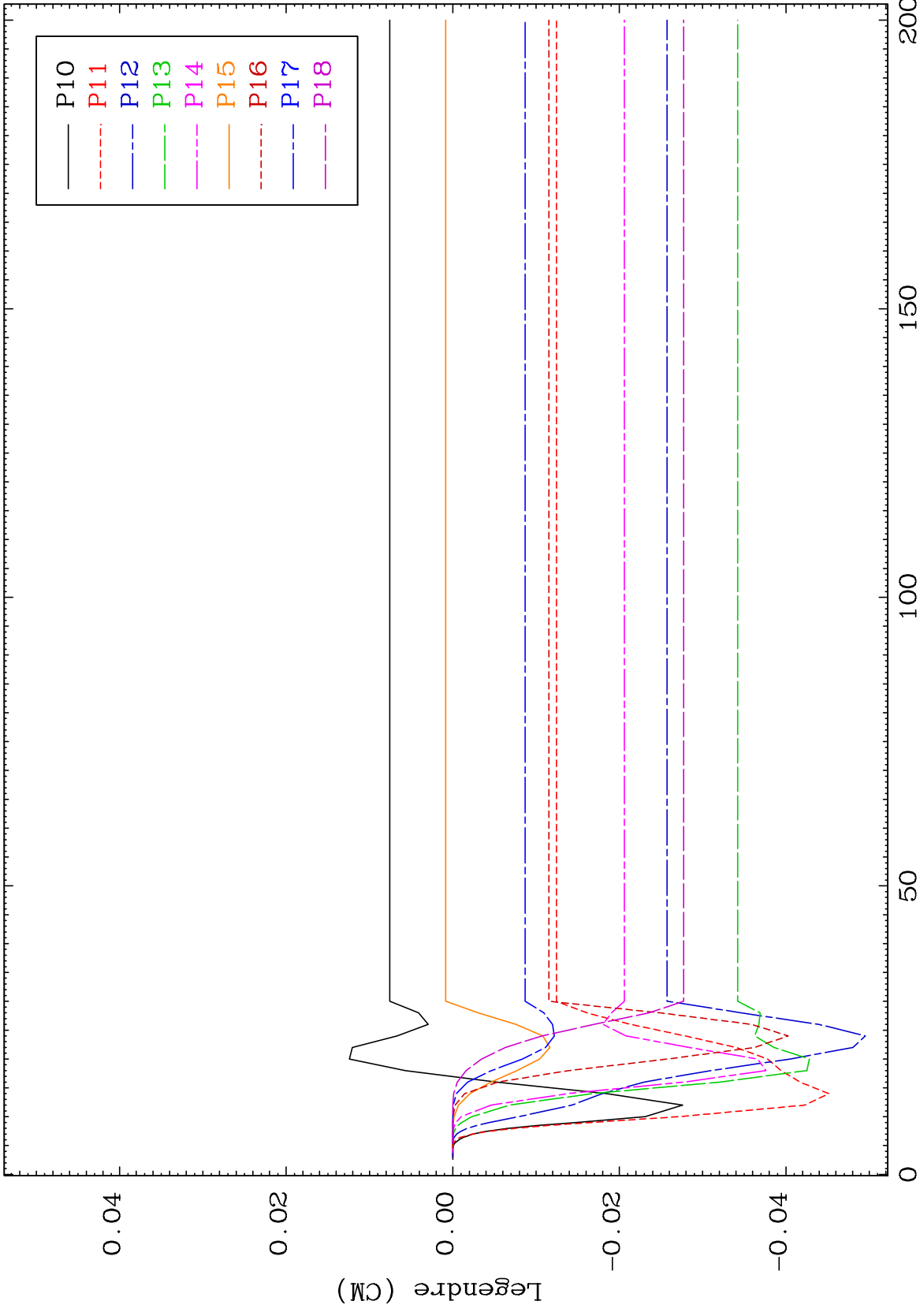
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142

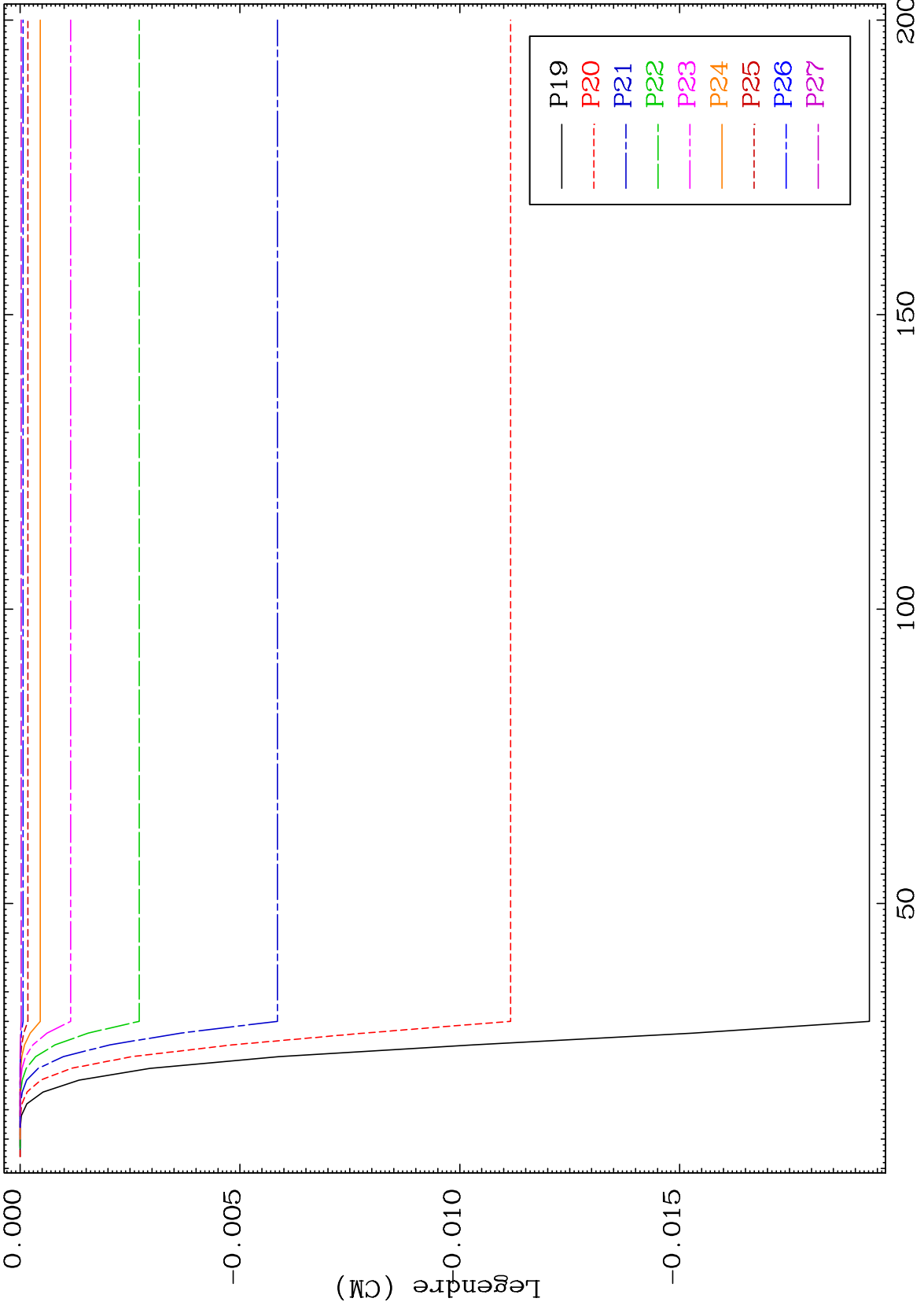


41

Incident Energy (MeV)

60-Nd-142

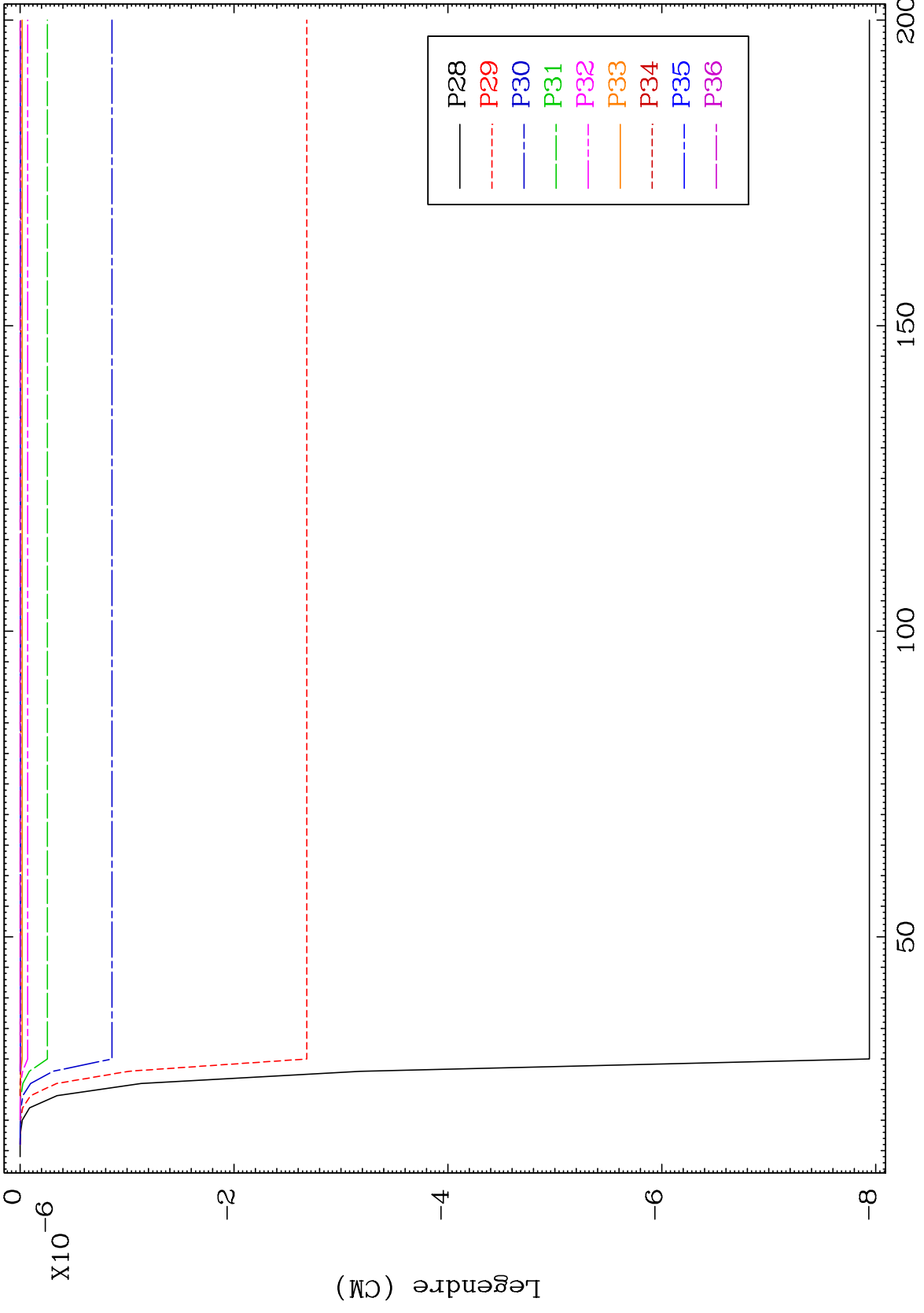
MAT 6025 MT= 56 (n,n') Level Legendre Coefficients 60-Nd-142



MAT 6025

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

60-Nd-142

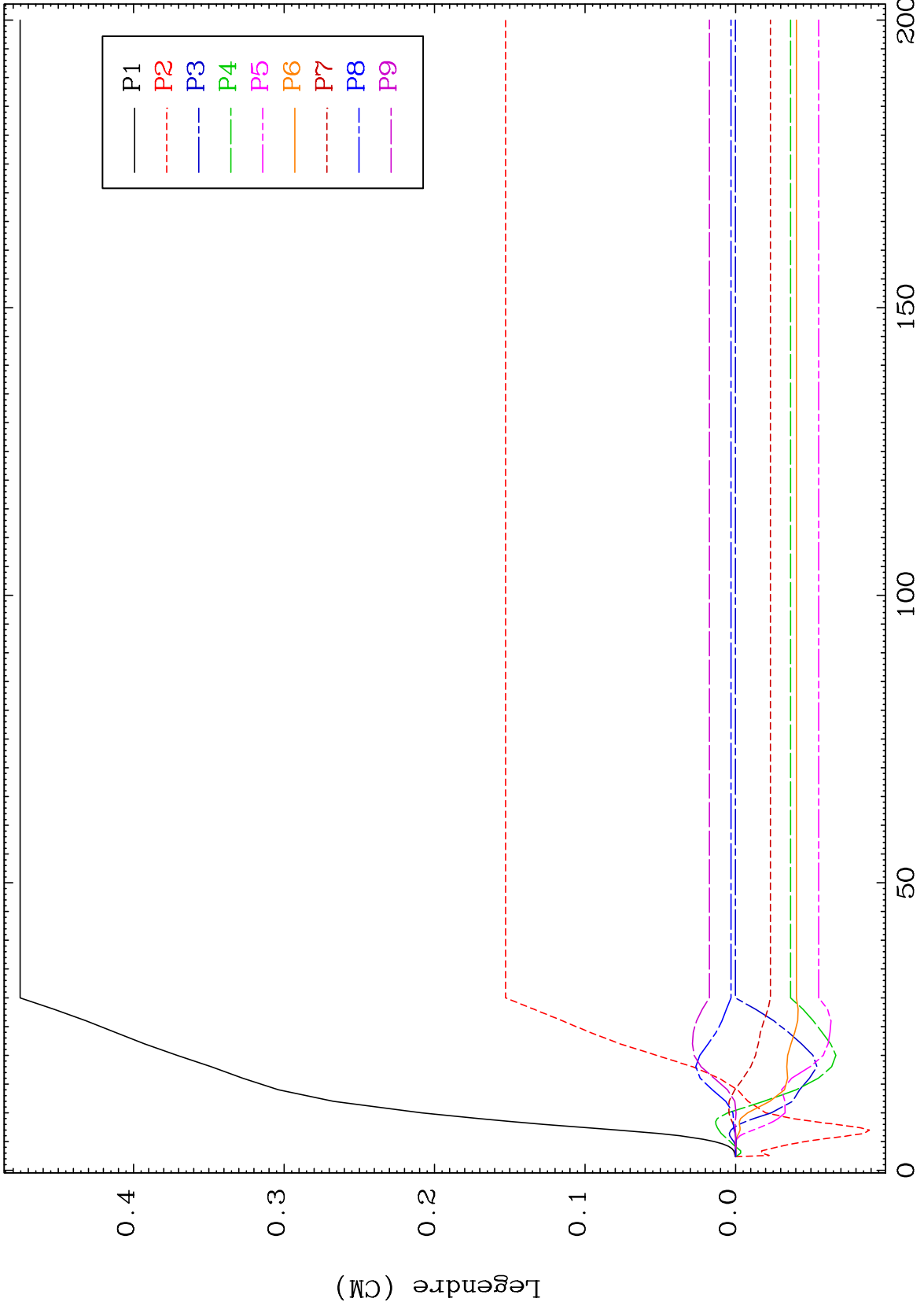


60-Nd-142

Incident Energy (MeV)

43

MAT 6025 MT= 57 (n,n') Level Legendre Coefficients 60-Nd-142

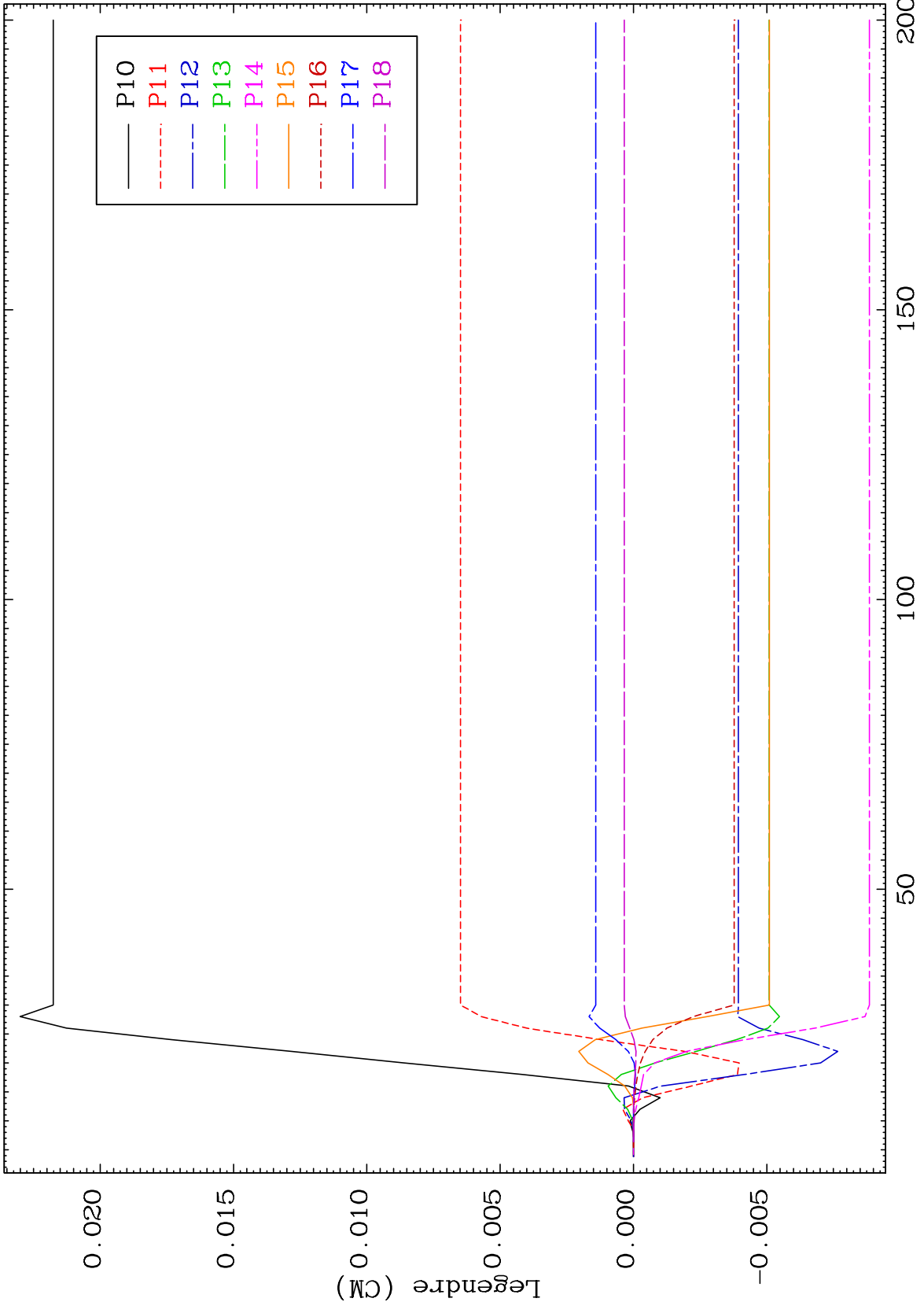


44 60-Nd-142

MAT 6025

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

60-Nd-142



45

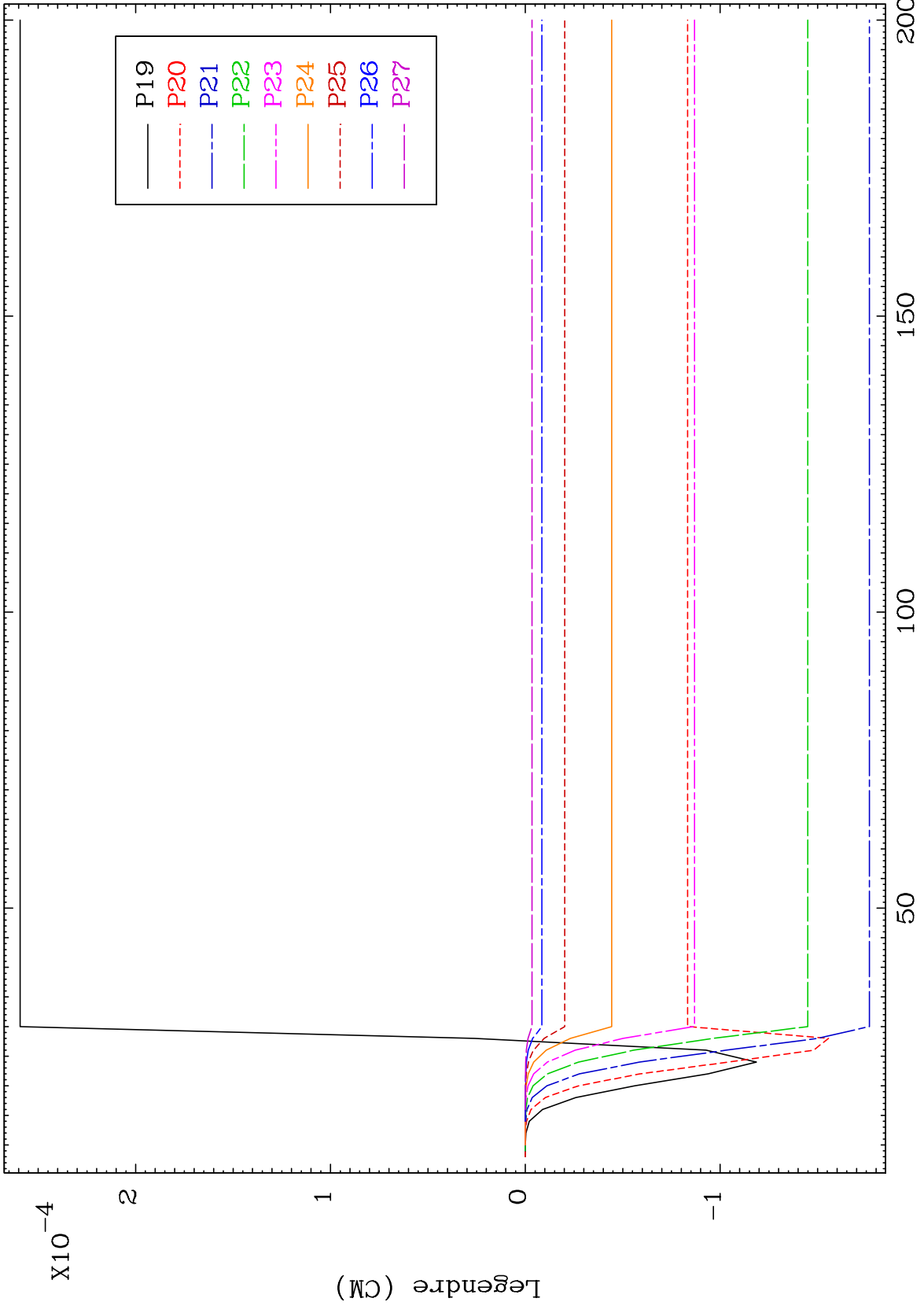
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142



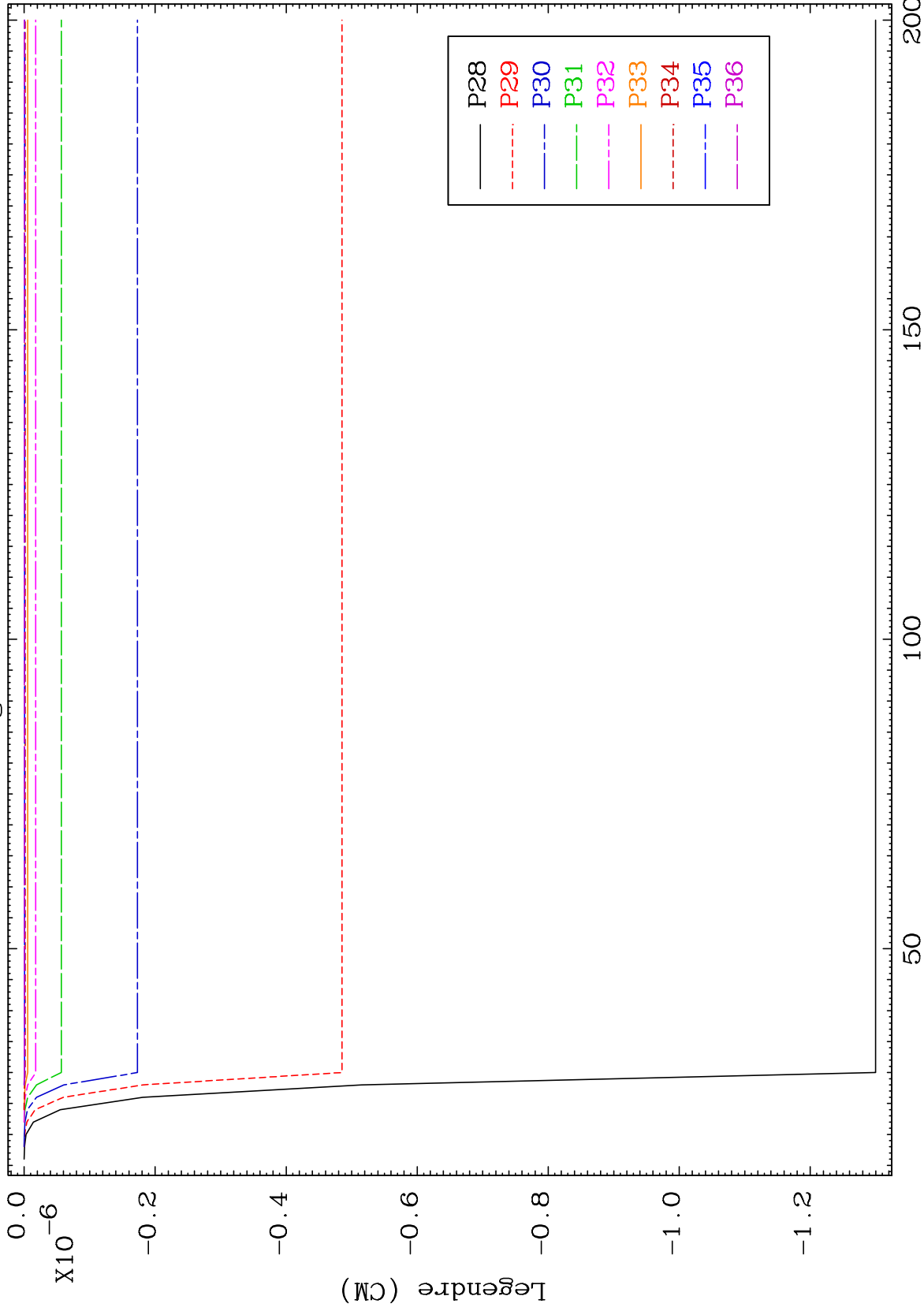
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60-Nd-142

MAT 6025

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

60-Nd-142

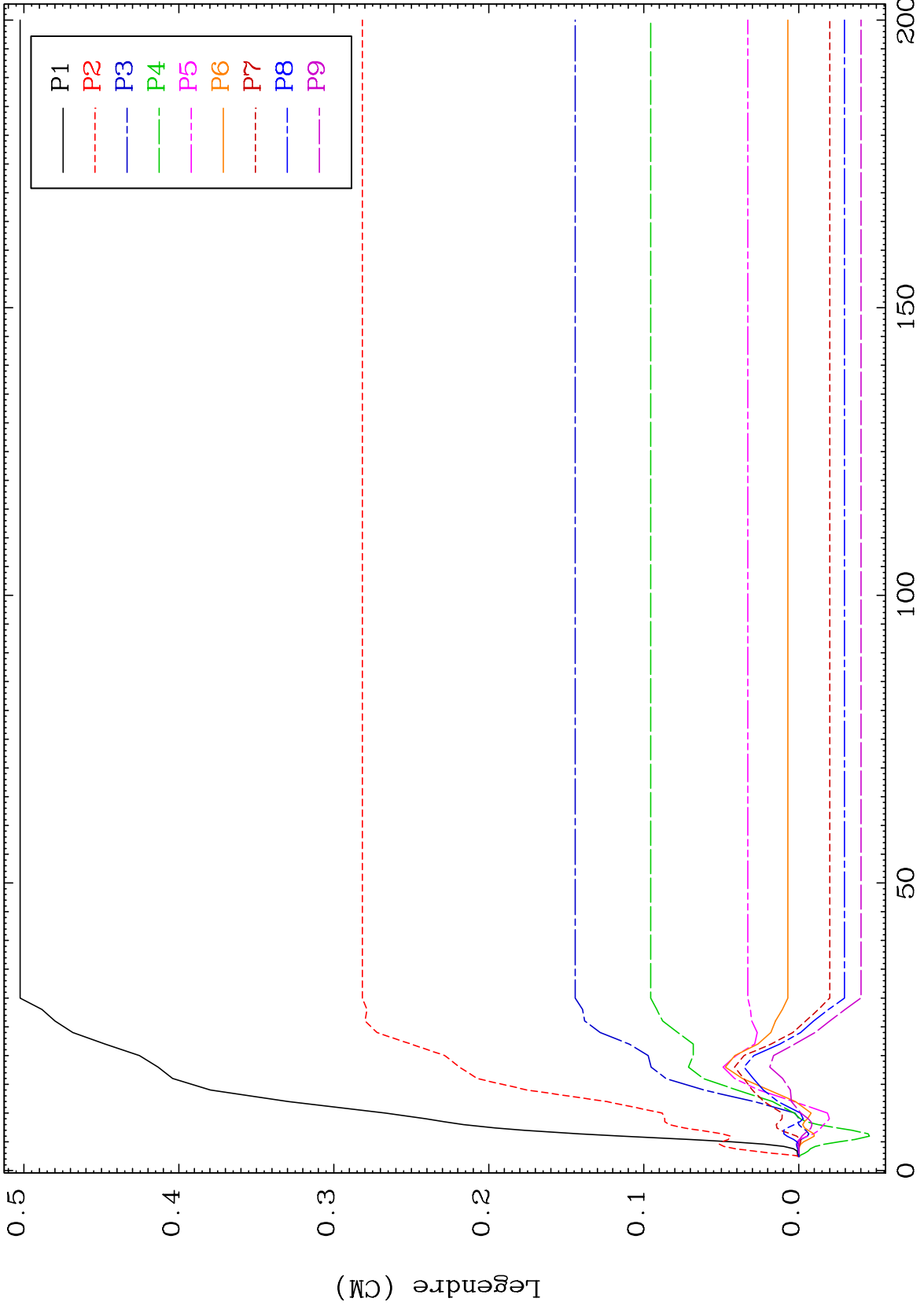


47

Incident Energy (MeV)

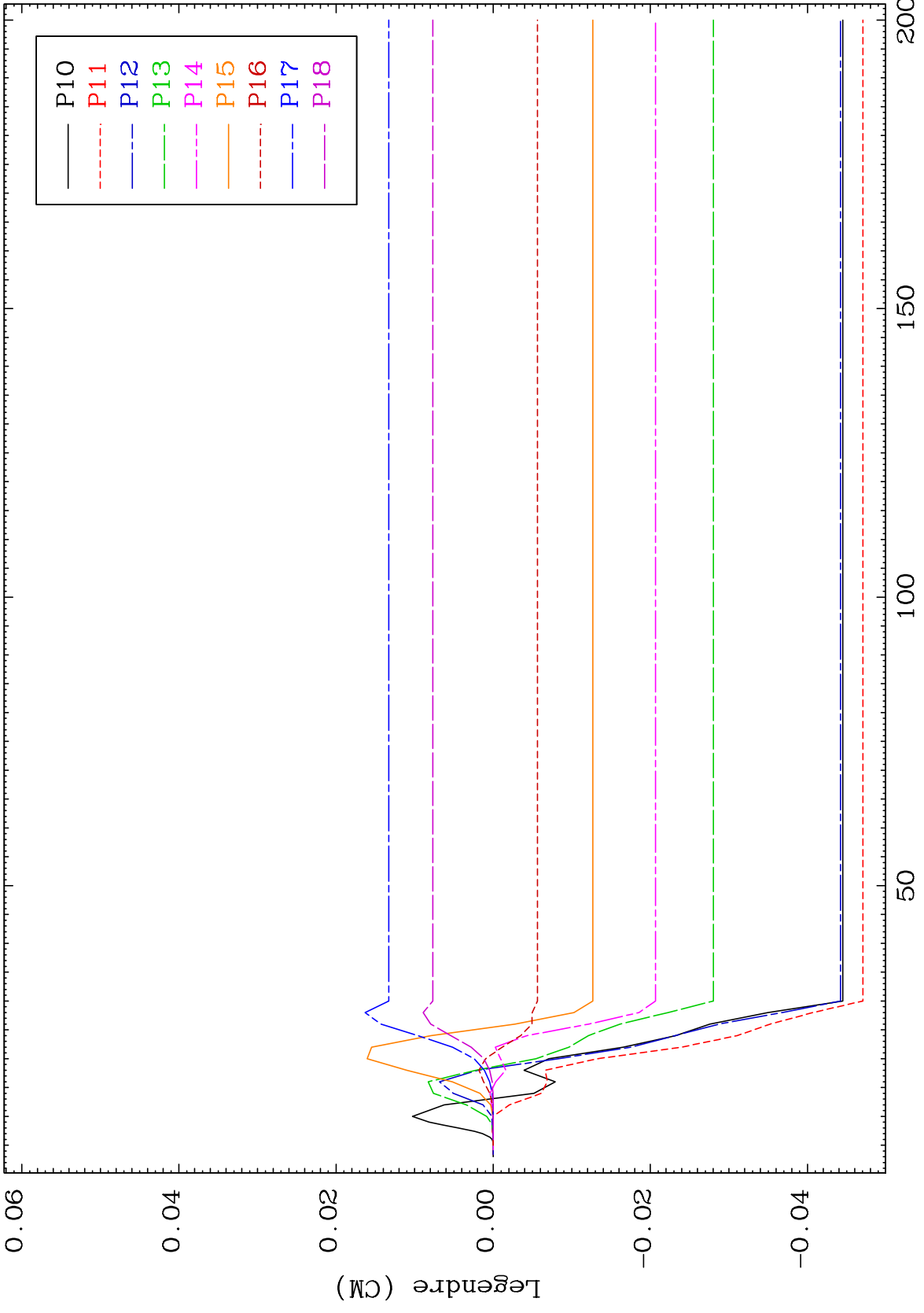
60-Nd-142

MAT 6025 MT= 58 (n,n') Level Legendre Coefficients 60-Nd-142



48 Incident Energy (MeV) 60-Nd-142

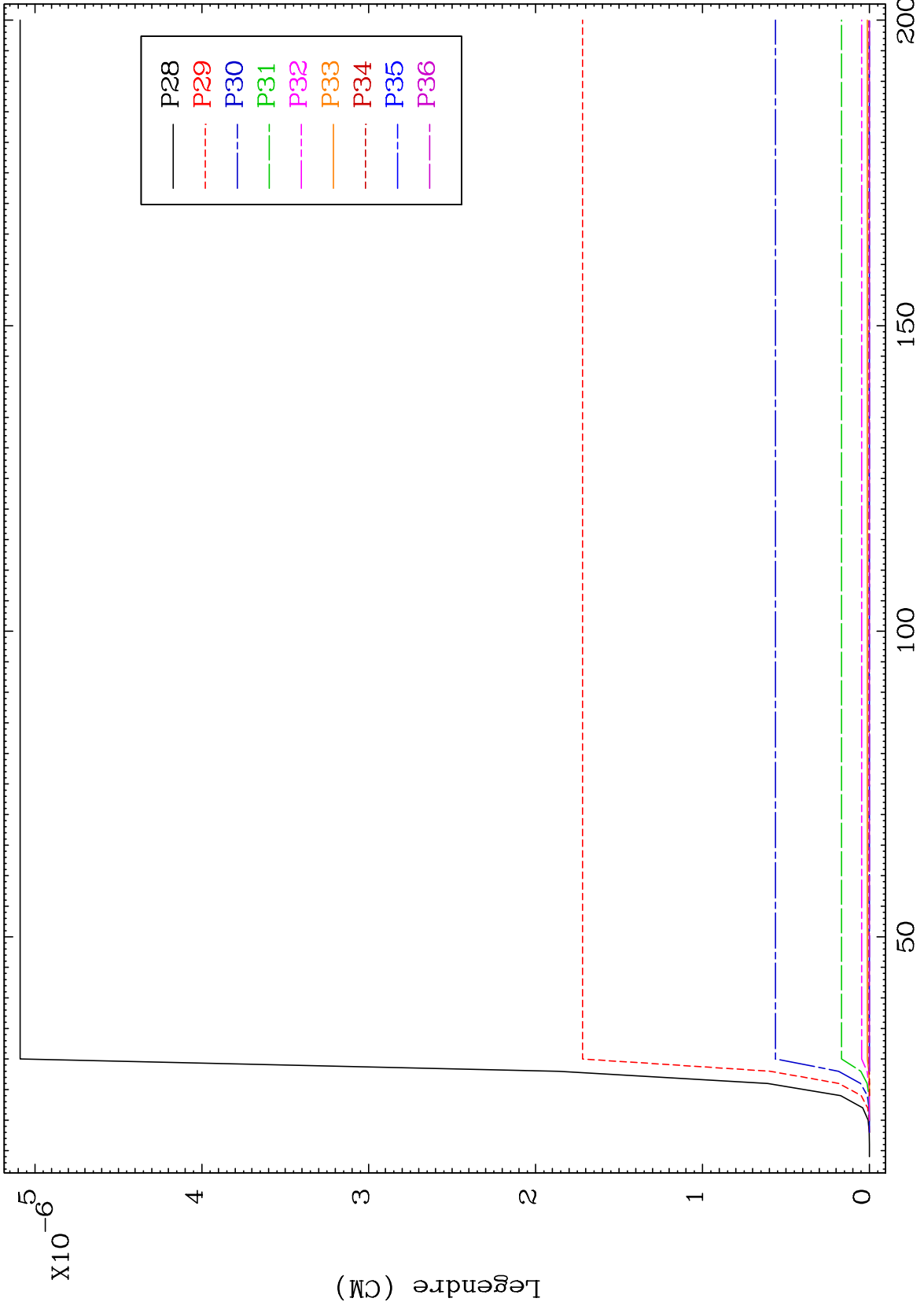
MAT 6025 MT= 58 (n,n') Level Legendre Coefficients 60-Nd-142



MAT 6025

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

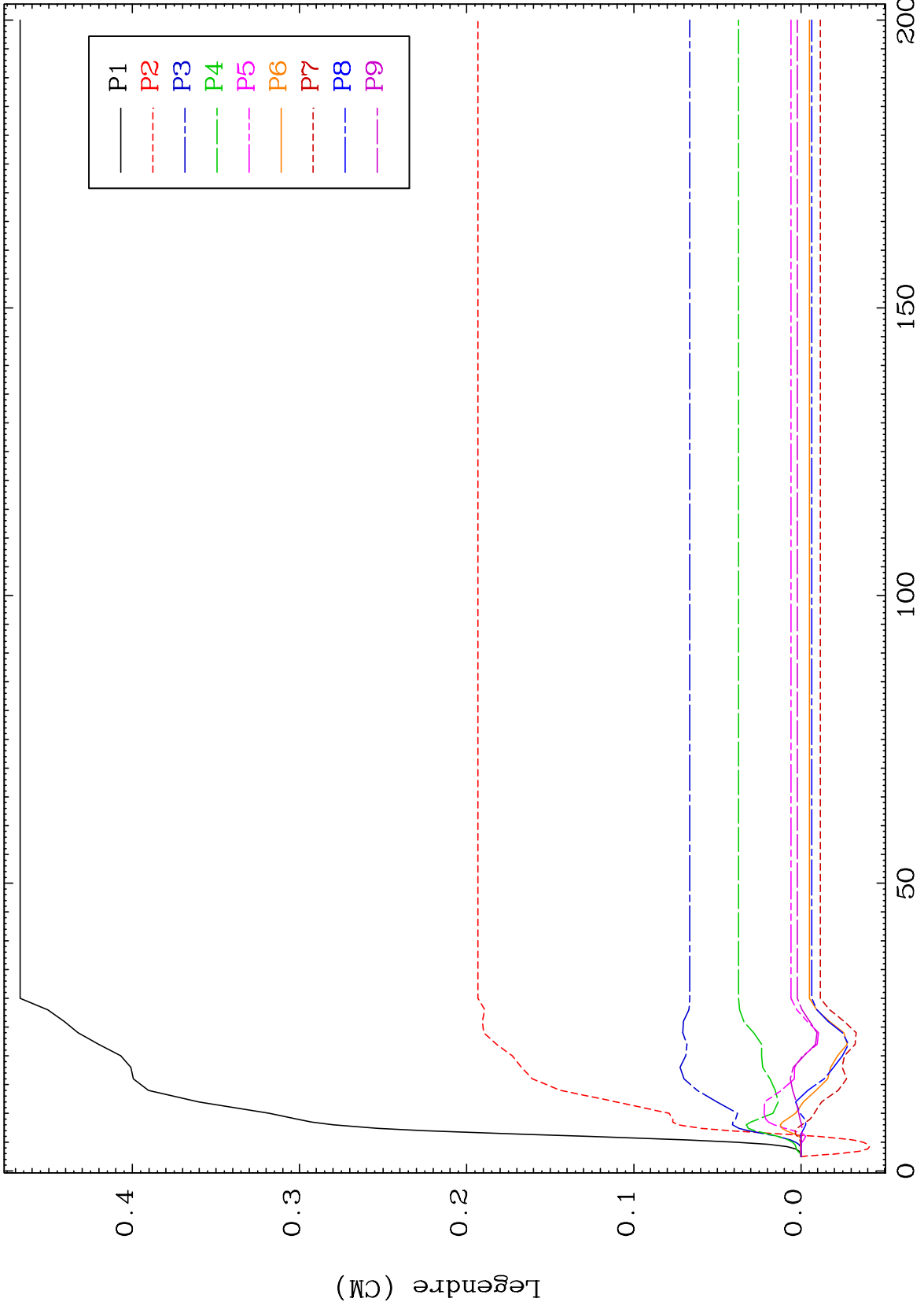
60-Nd-142



51

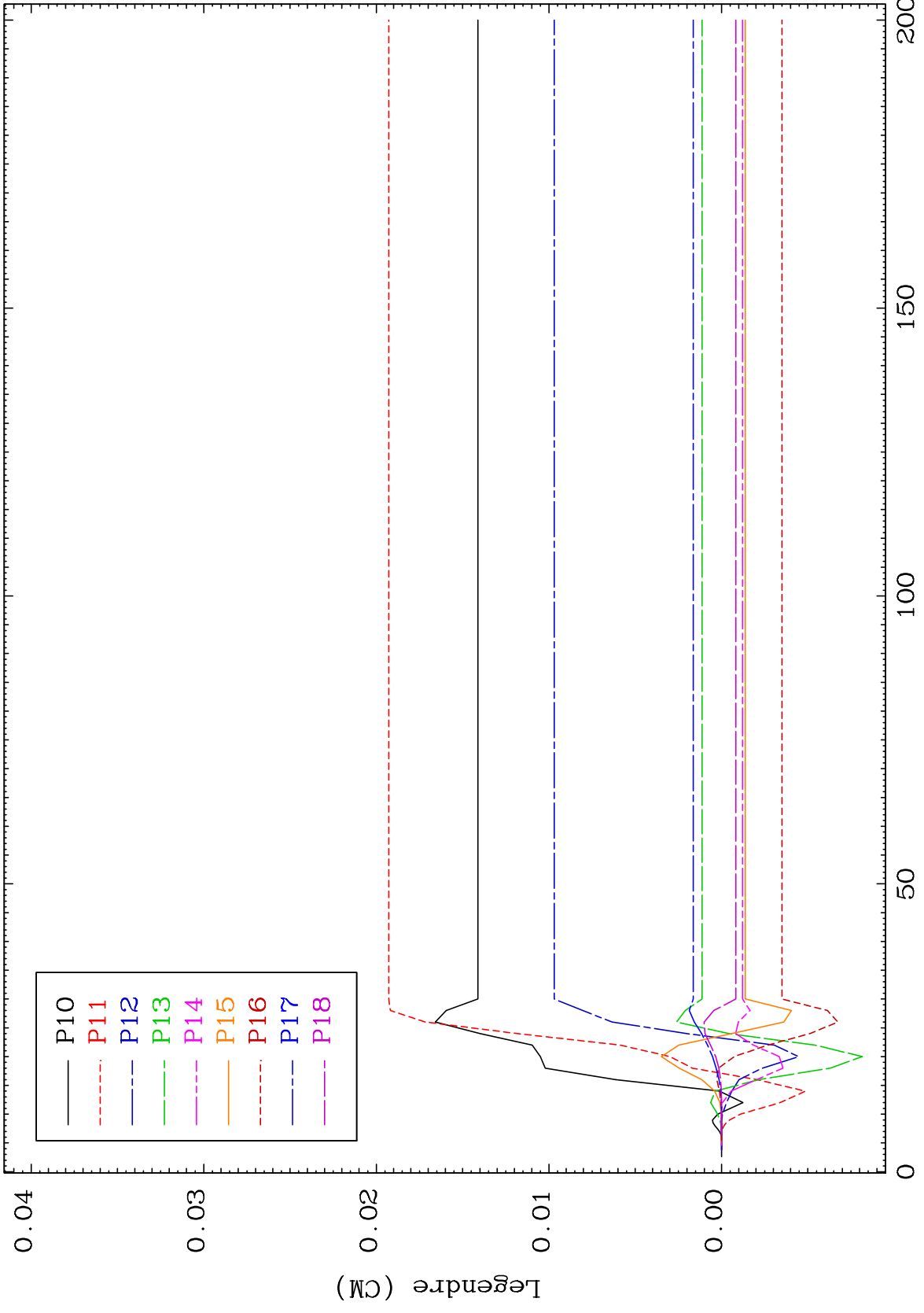
60-Nd-142

MAT 6025 MT= 59 (n,n') Level Legendre Coefficients 60-Nd-142

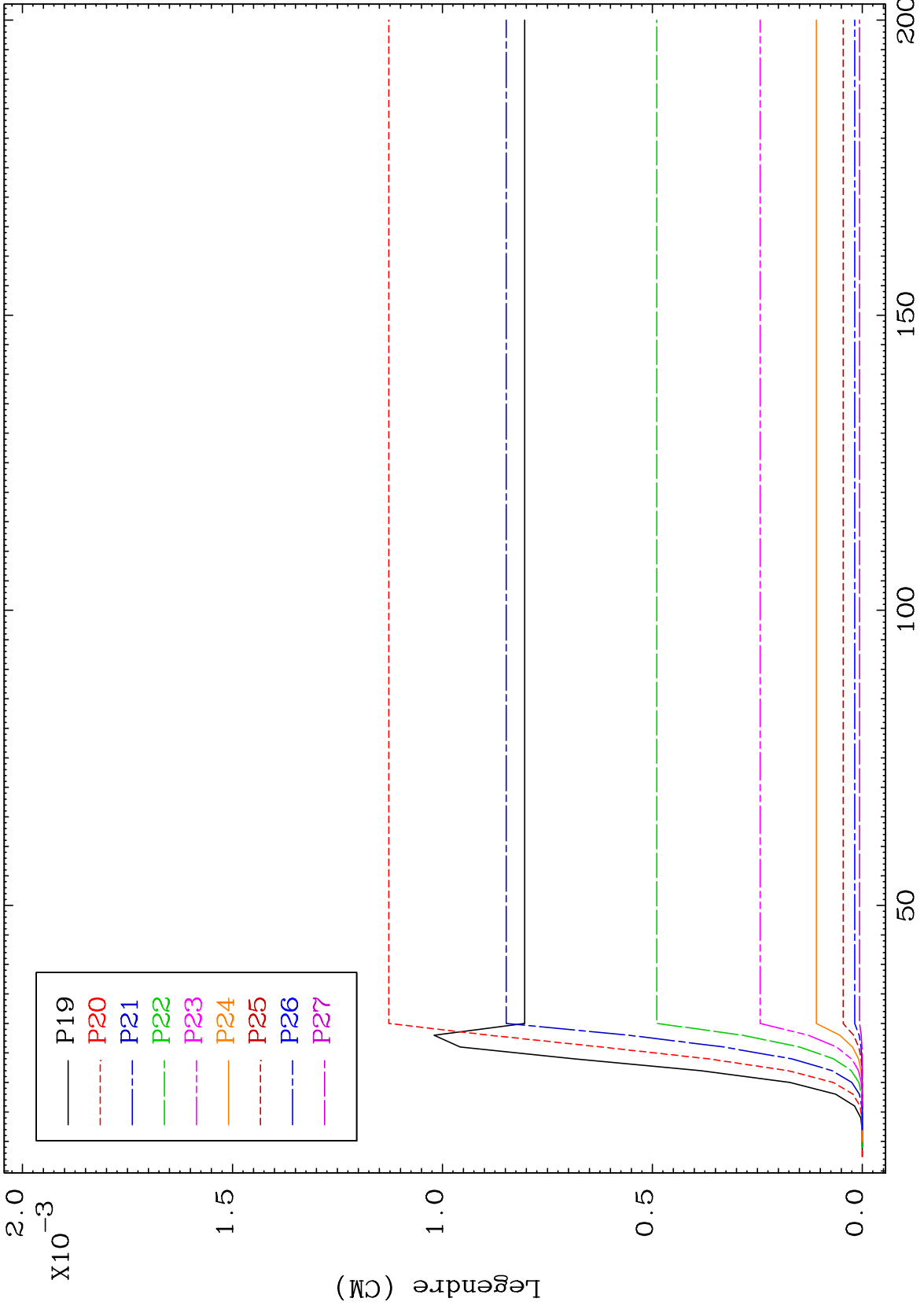


52 Incident Energy (MeV) 60-Nd-142

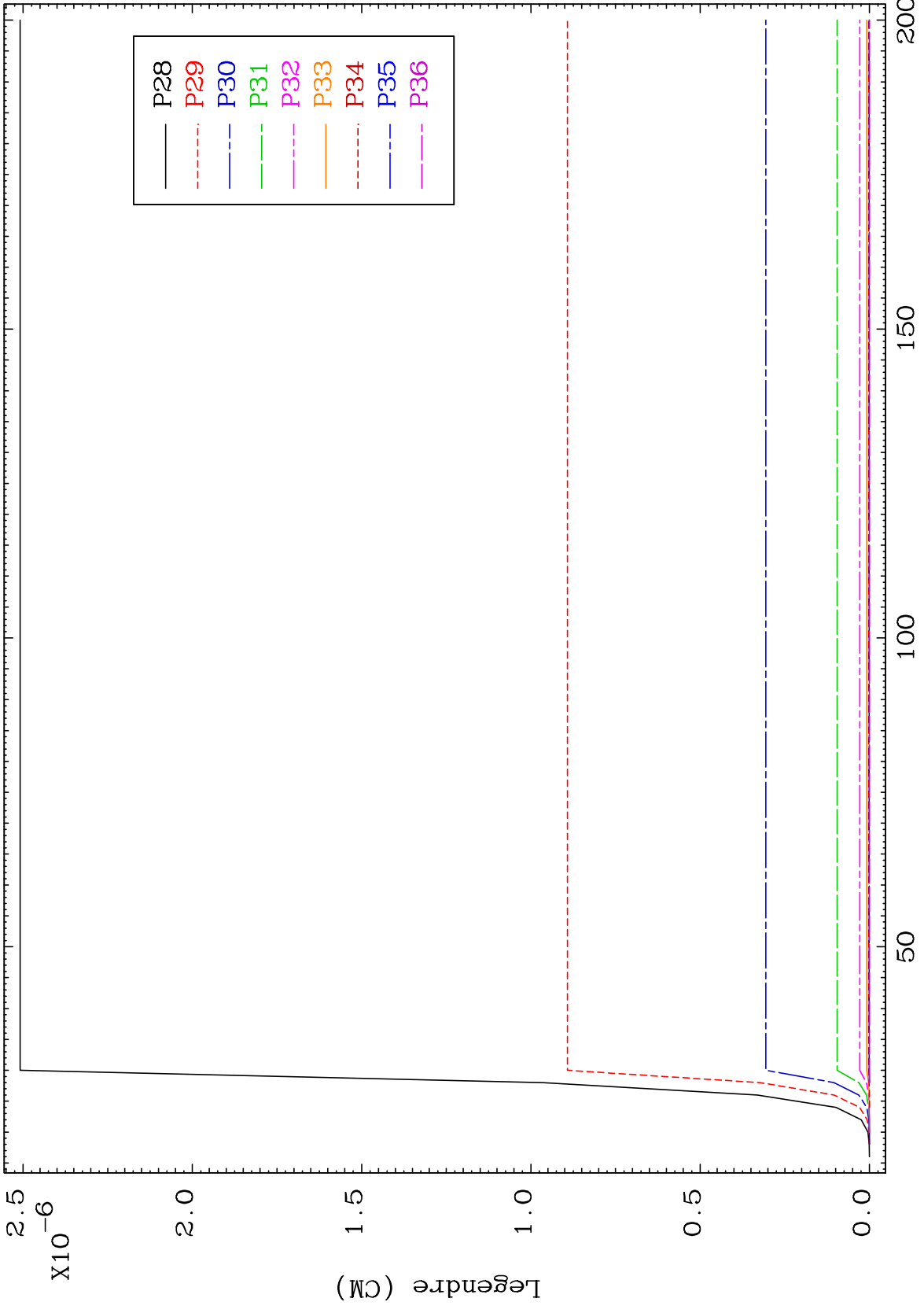
MAT 6025 MT= 59 (n,n') Level Legendre Coefficients 60-Nd-142



53 60-Nd-142

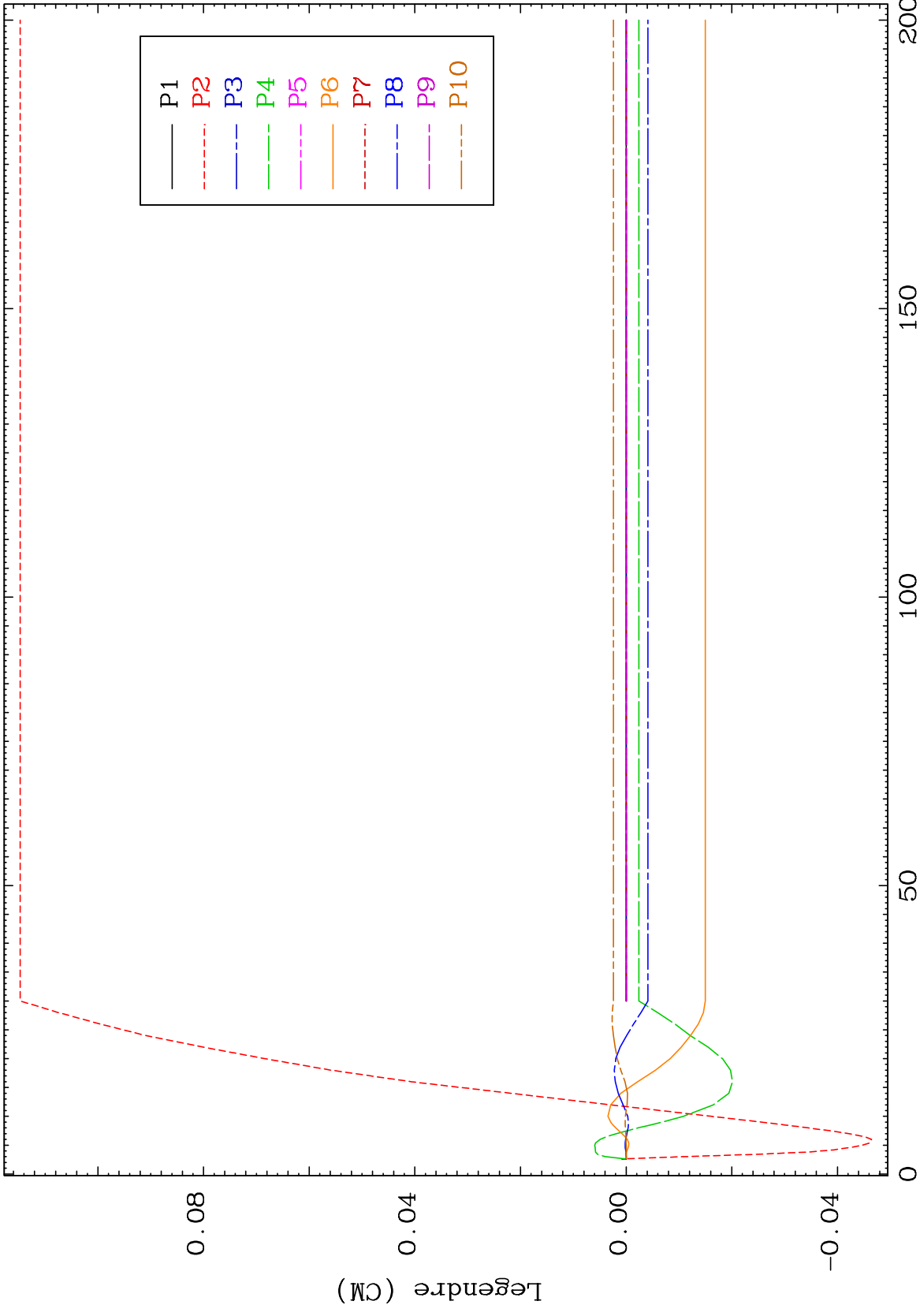


MAT 6025 MT= 59 (n,n') Level Legendre Coefficients 60-Nd-142



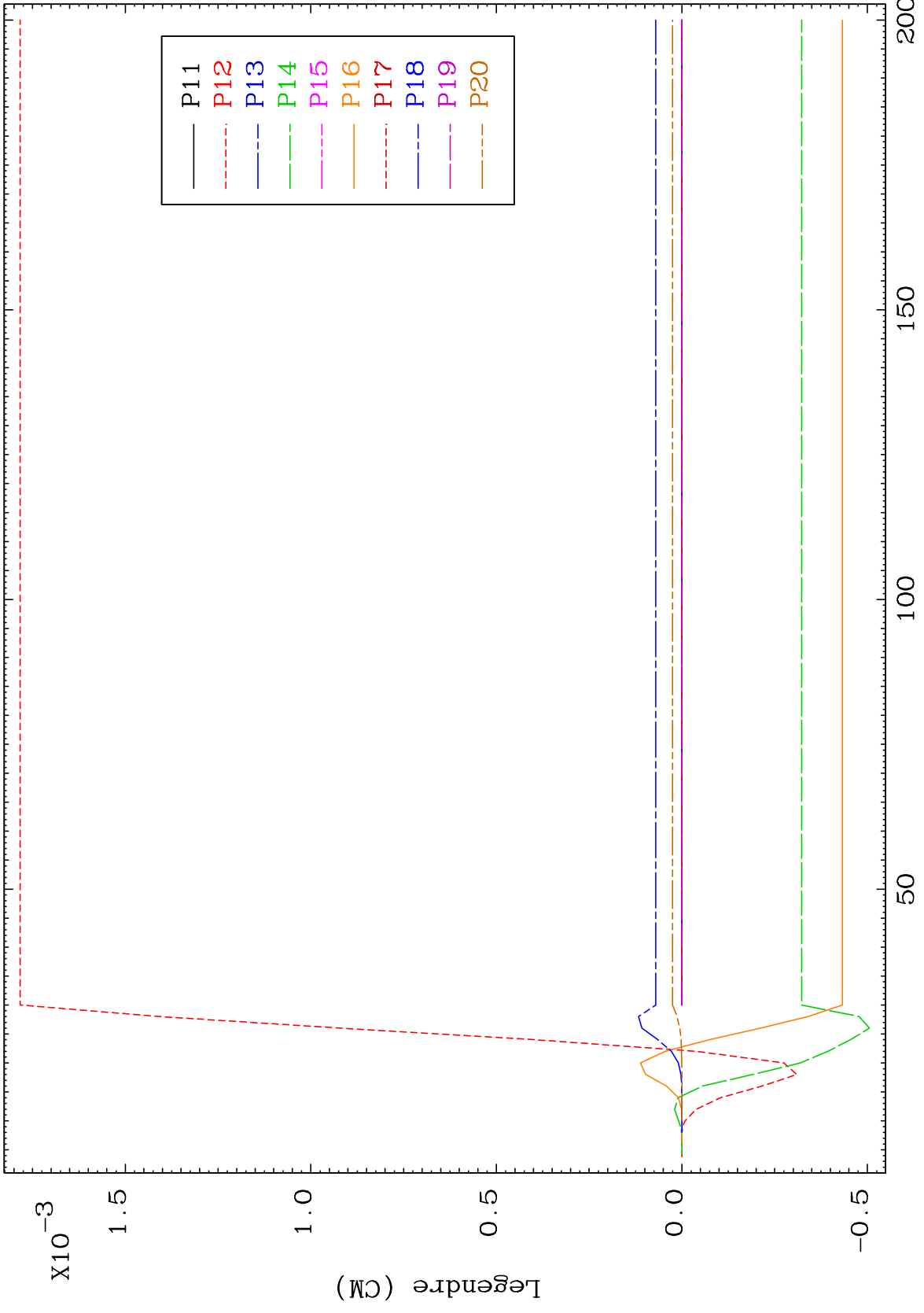
55 Incident Energy (MeV) 60-Nd-142

MAT 6025 MT= 60 (n,n') Level Legendre Coefficients 60-Nd-142

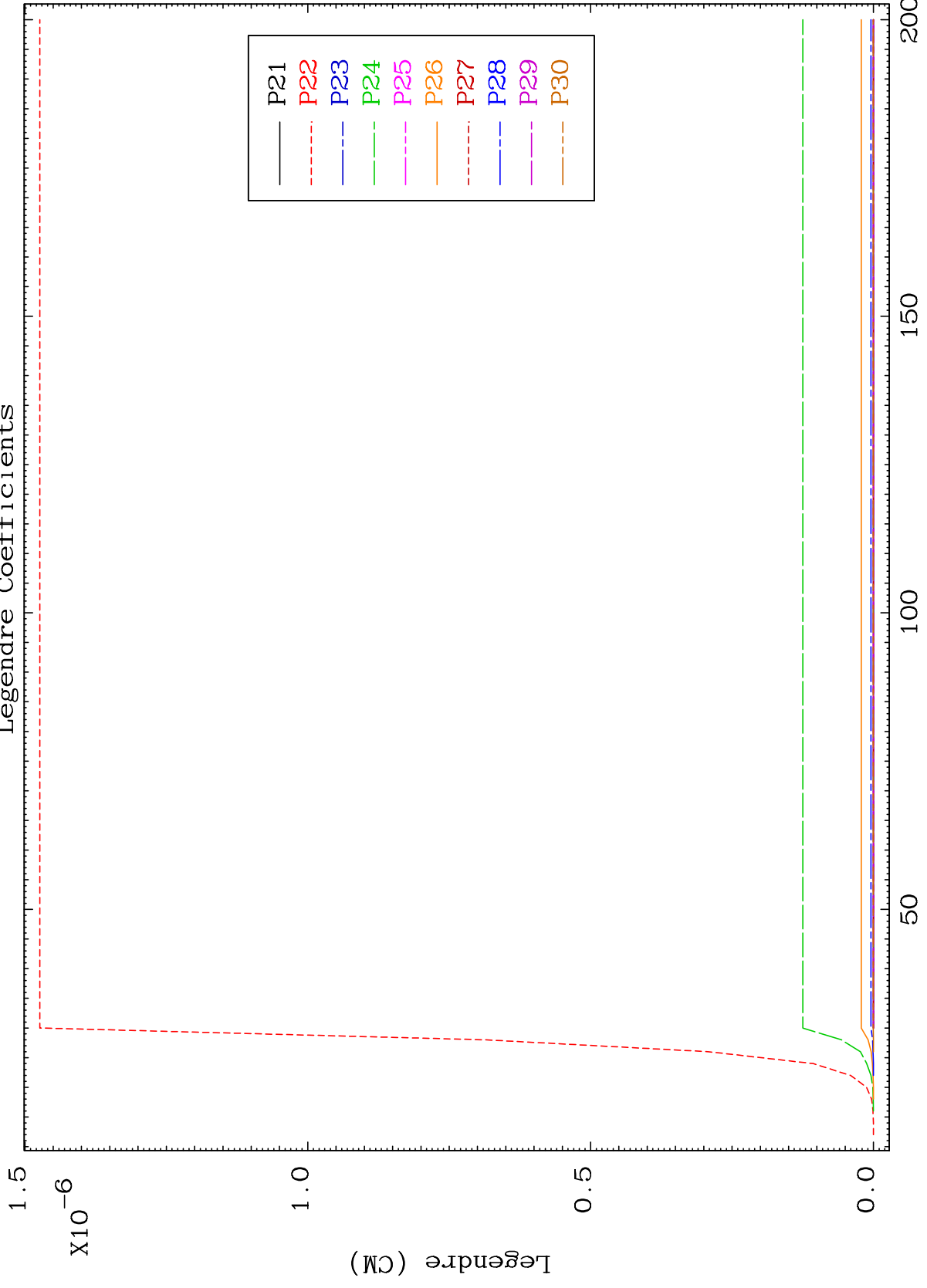


56 Incident Energy (MeV) 60-Nd-142

MAT 6025 MT= 60 (n,n') Level Legendre Coefficients 60-Nd-142



MAT 6025 MT= 60 (n,n') Level Legendre Coefficients 60-Nd-142



58

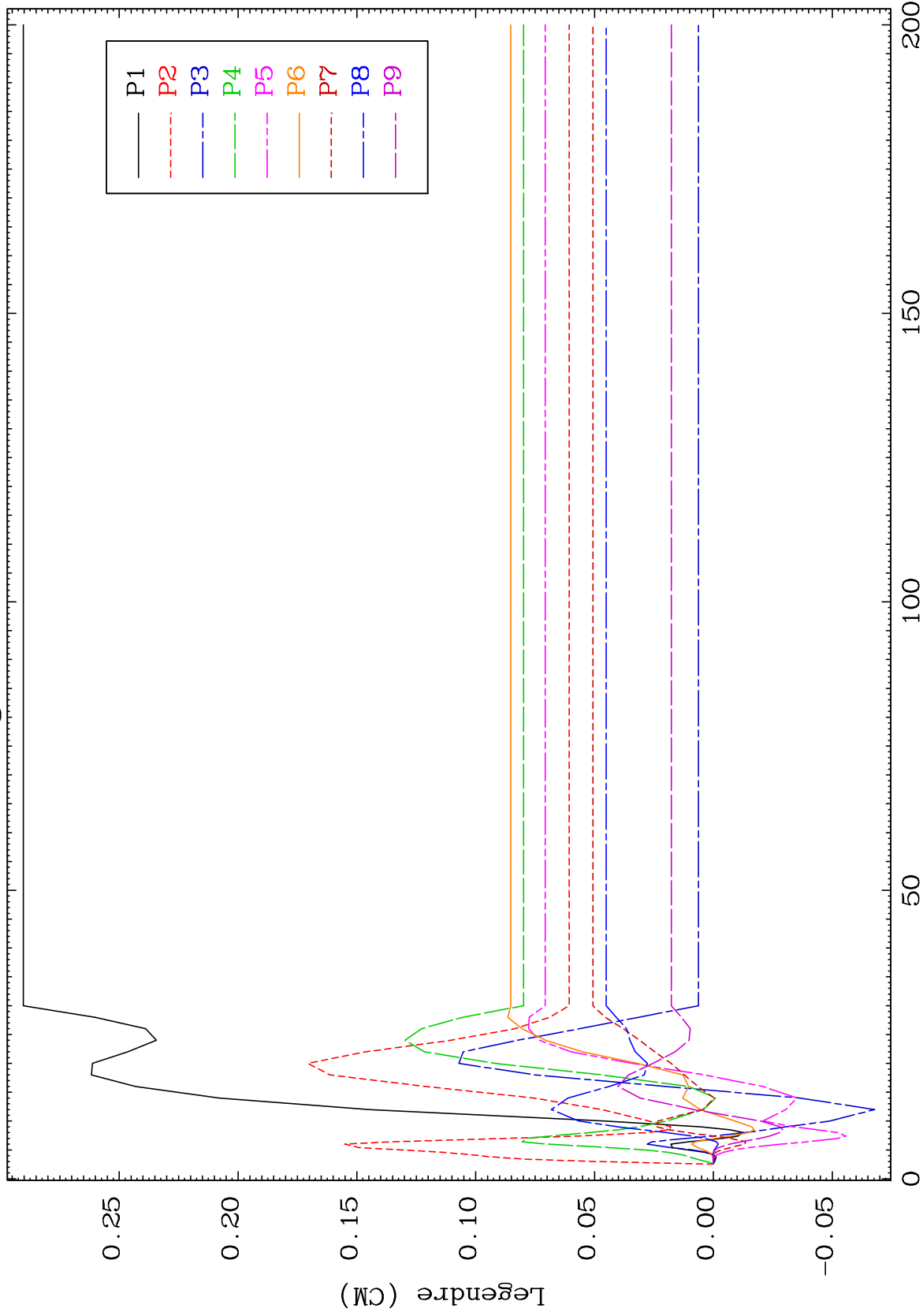
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142



59

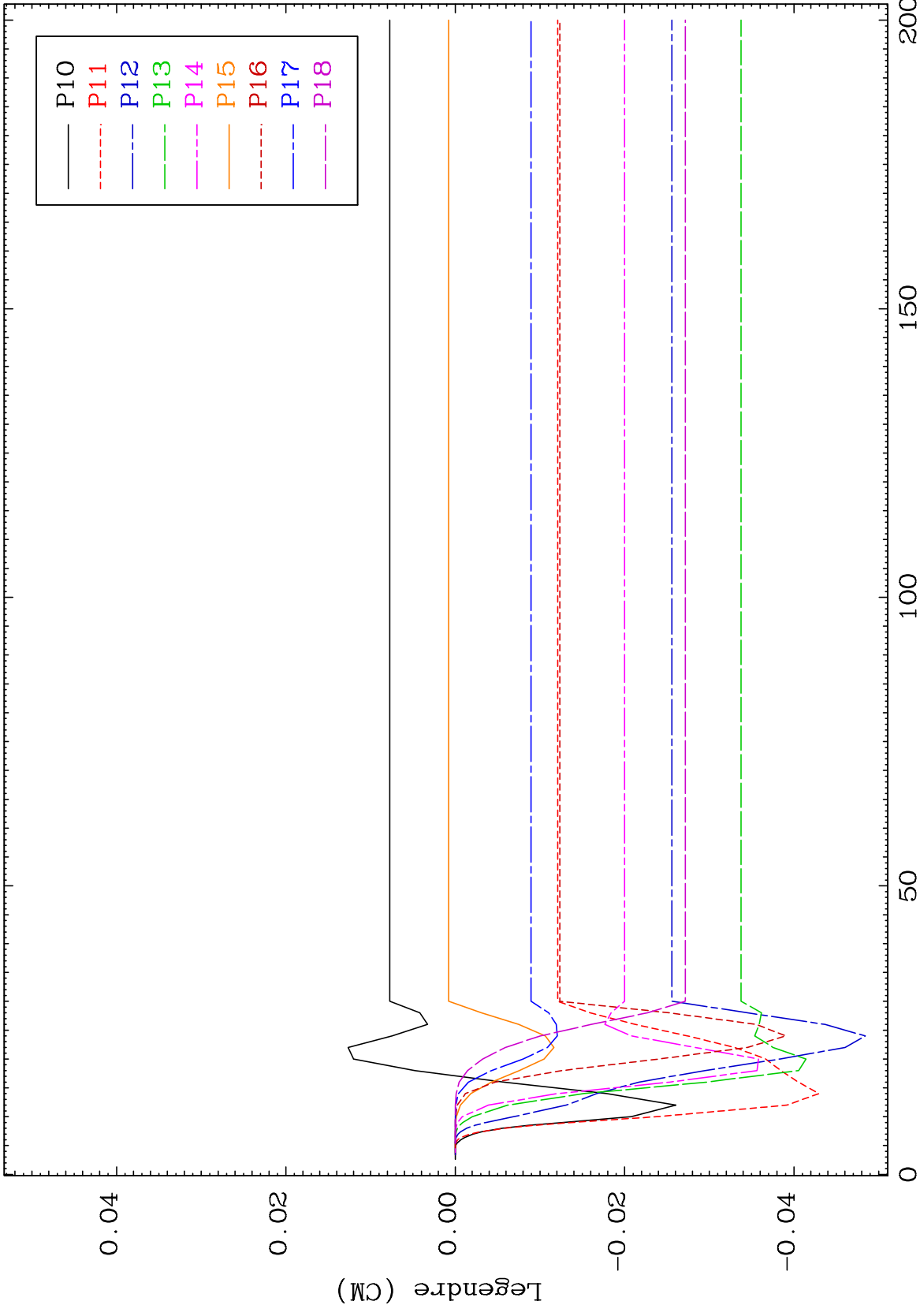
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142

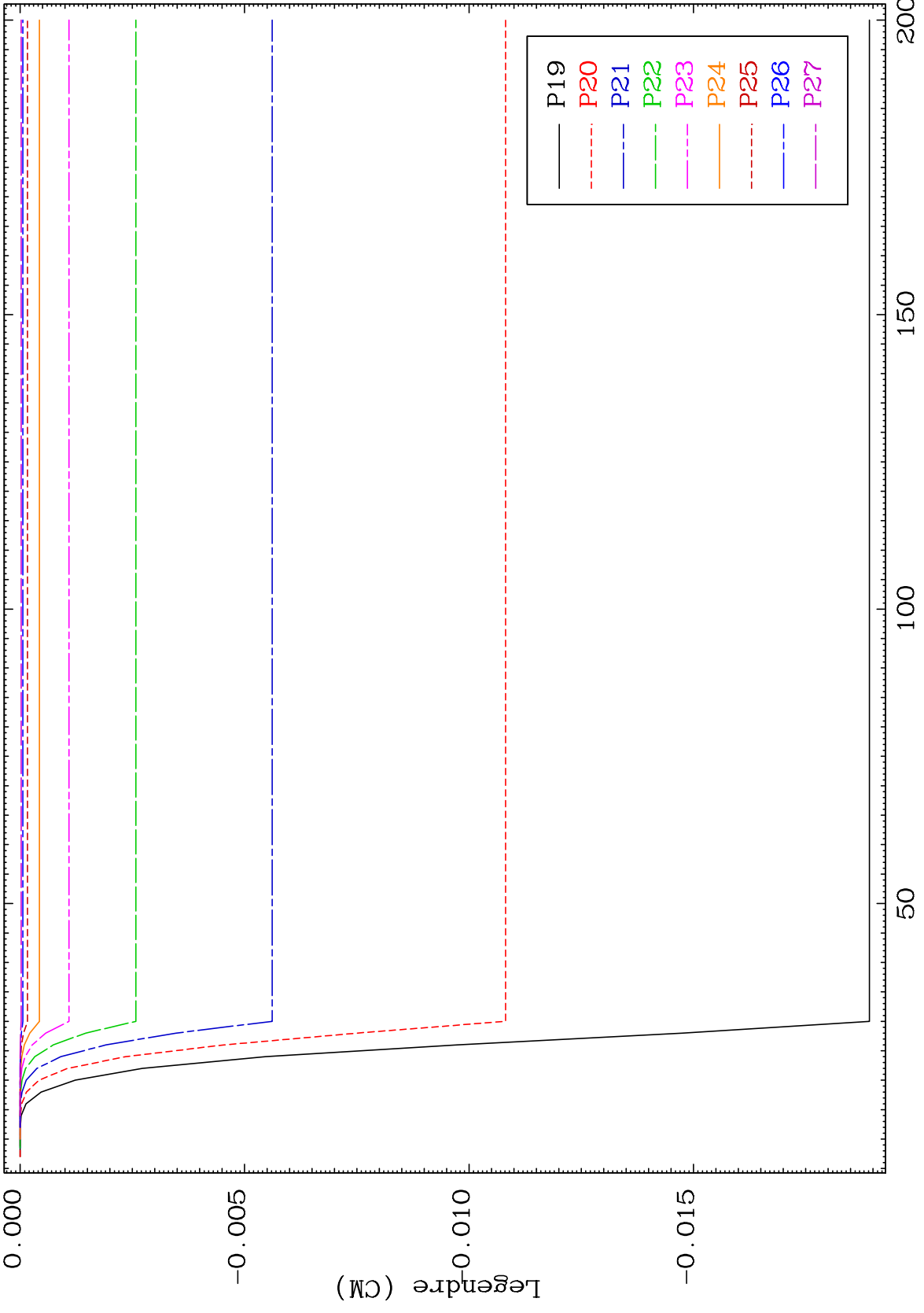


60

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 61 (n,n') Level Legendre Coefficients 60-Nd-142

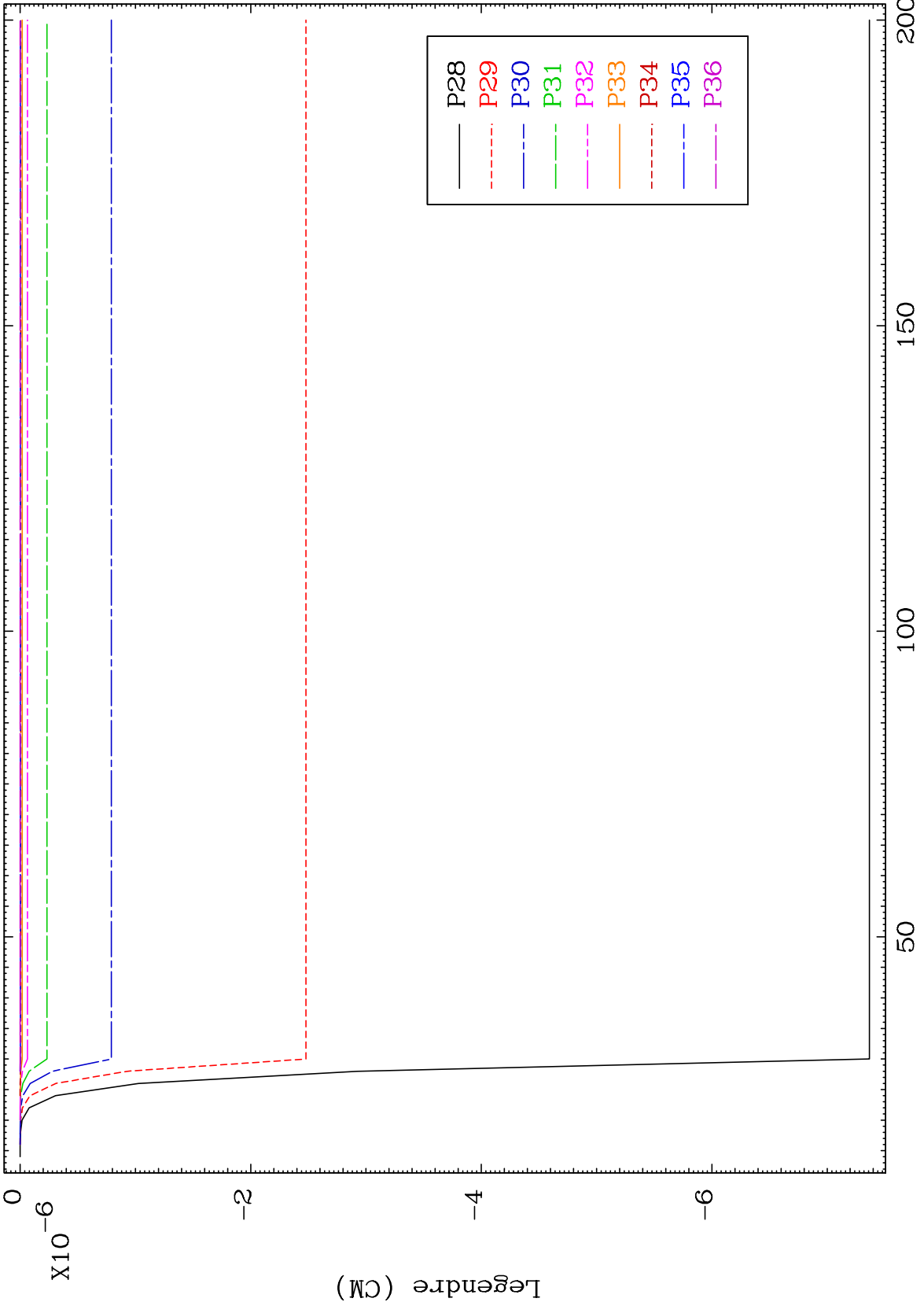


61 60-Nd-142

MAT 6025

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

60-Nd-142



60-Nd-142

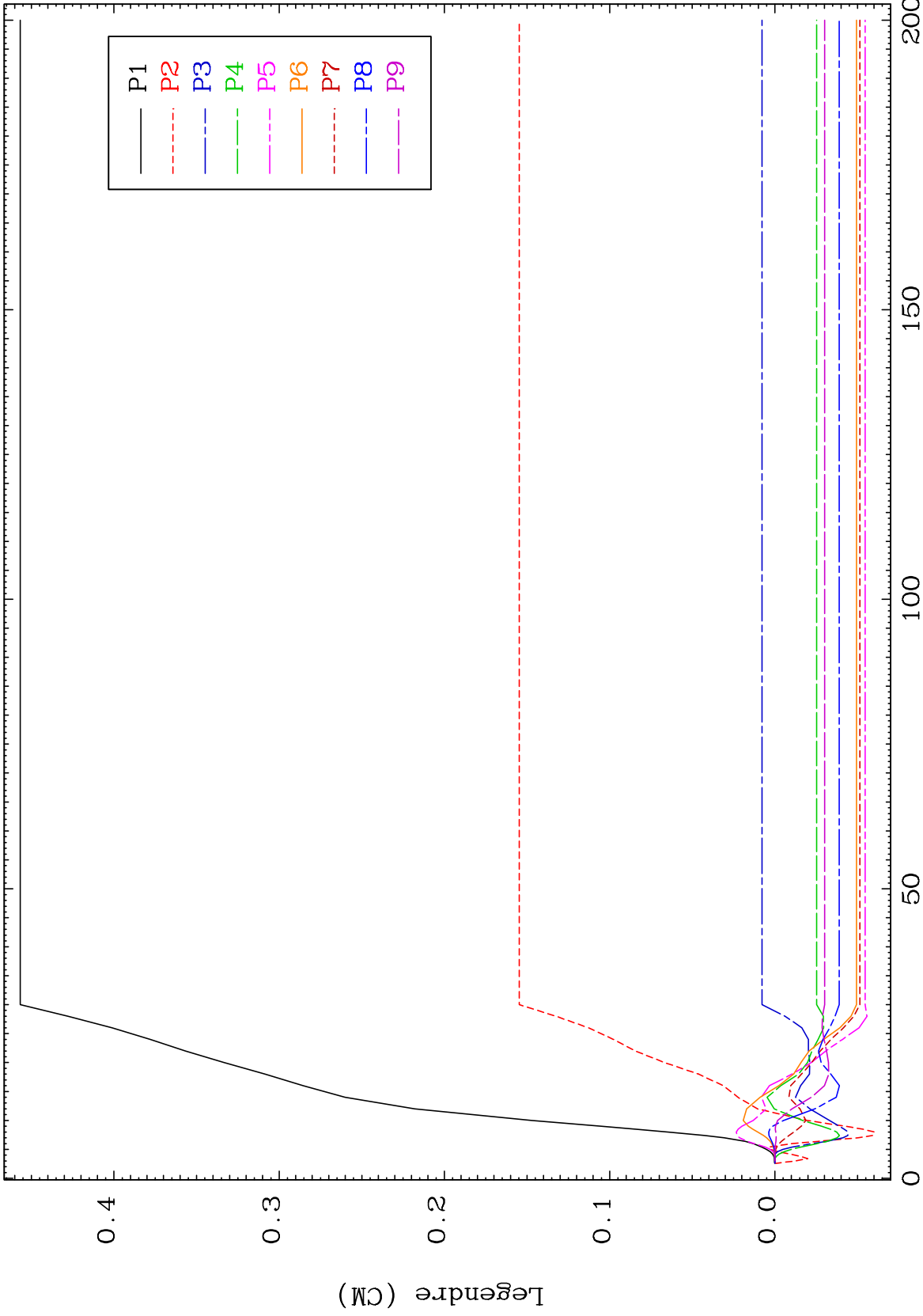
Incident Energy (MeV)

62

MAT 6025

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

60-Nd-142



63

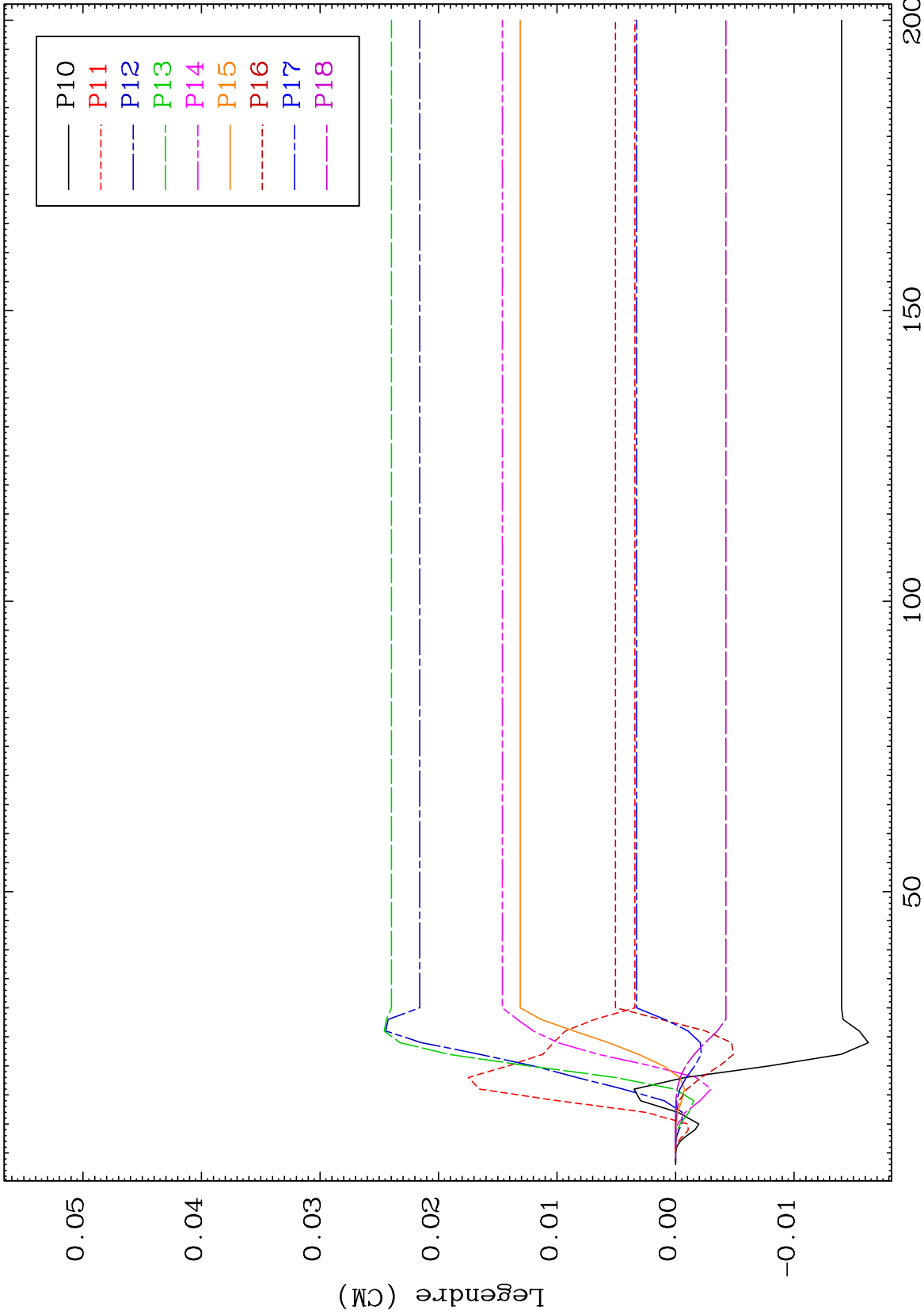
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142



64

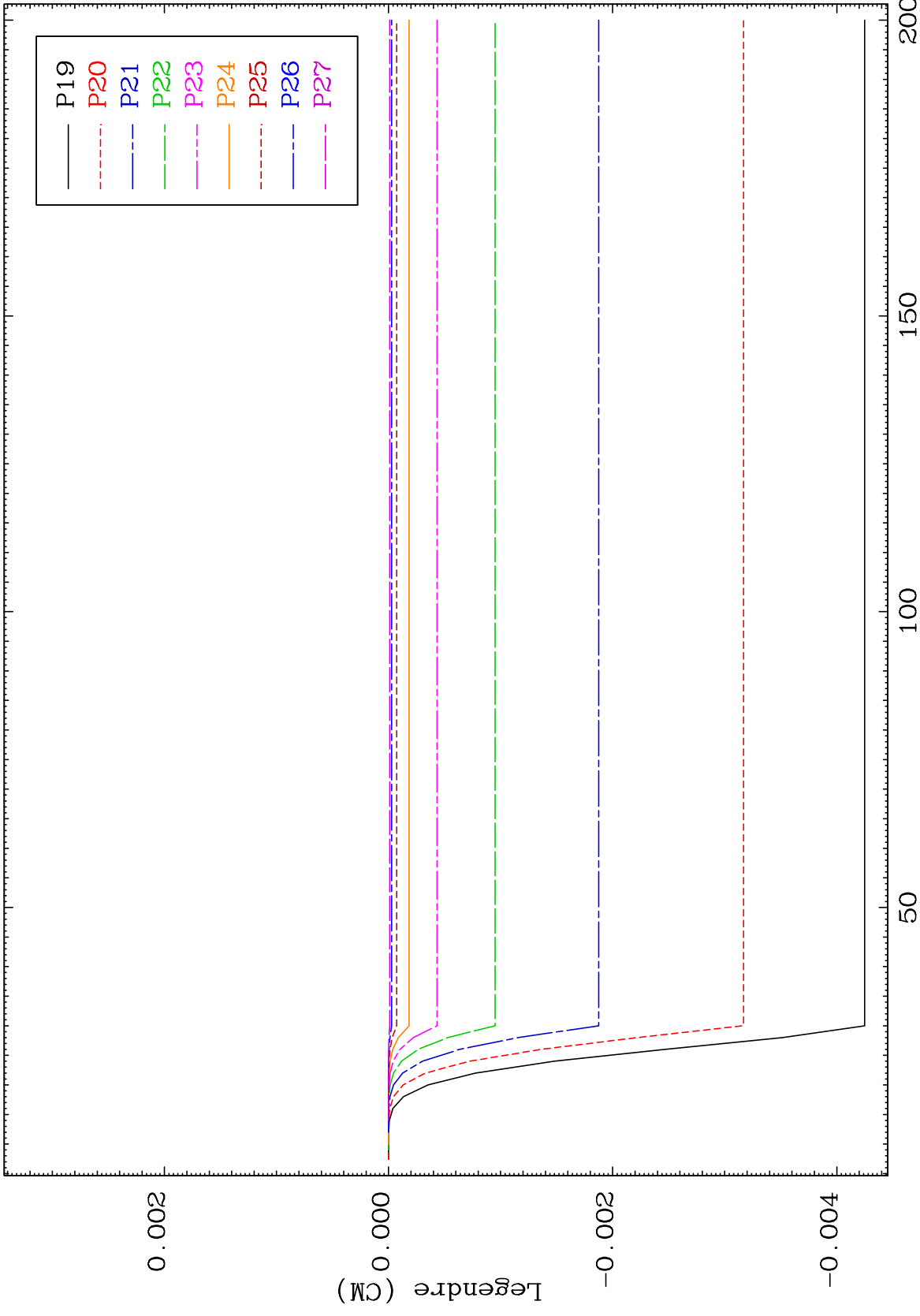
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142



65

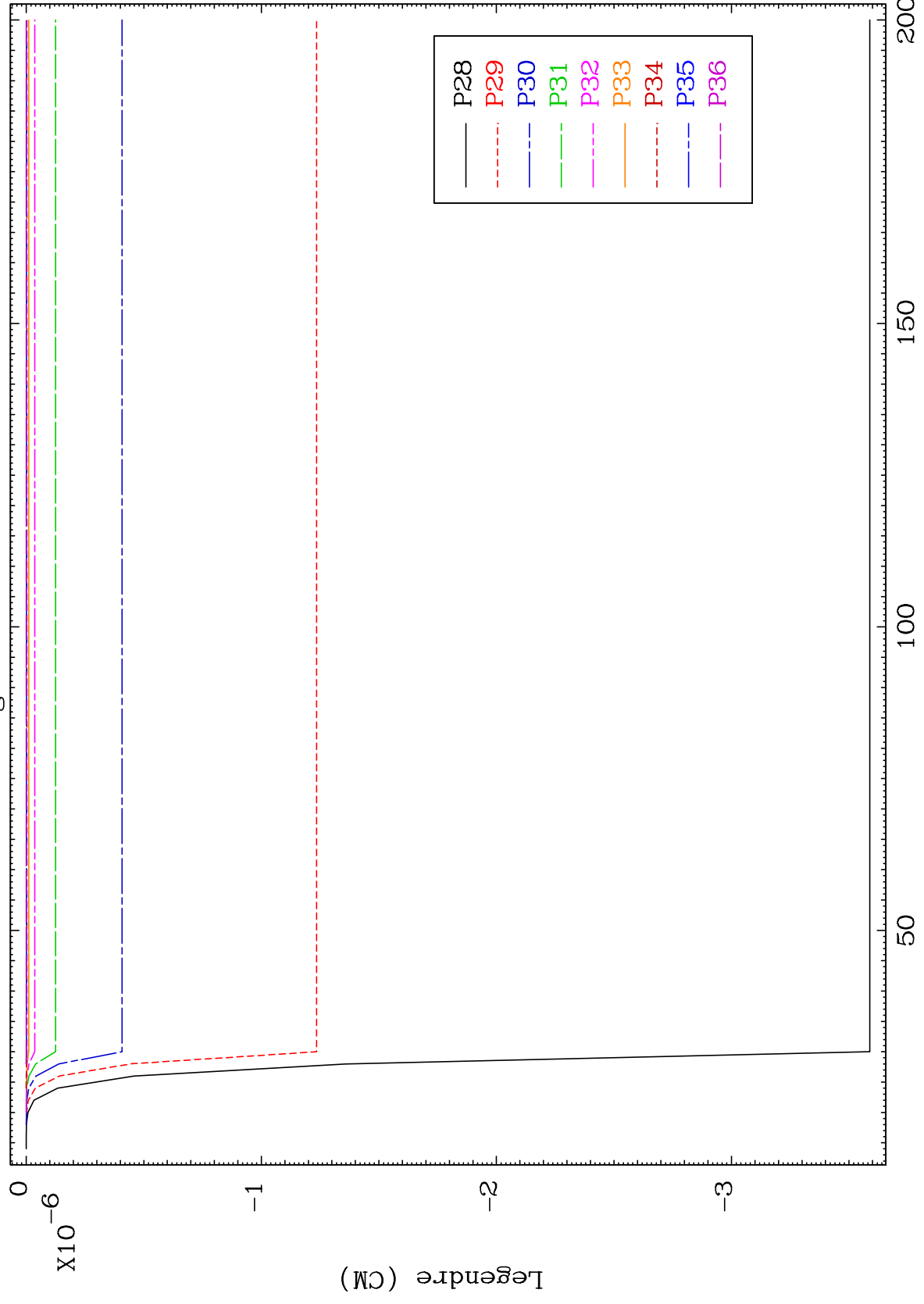
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142

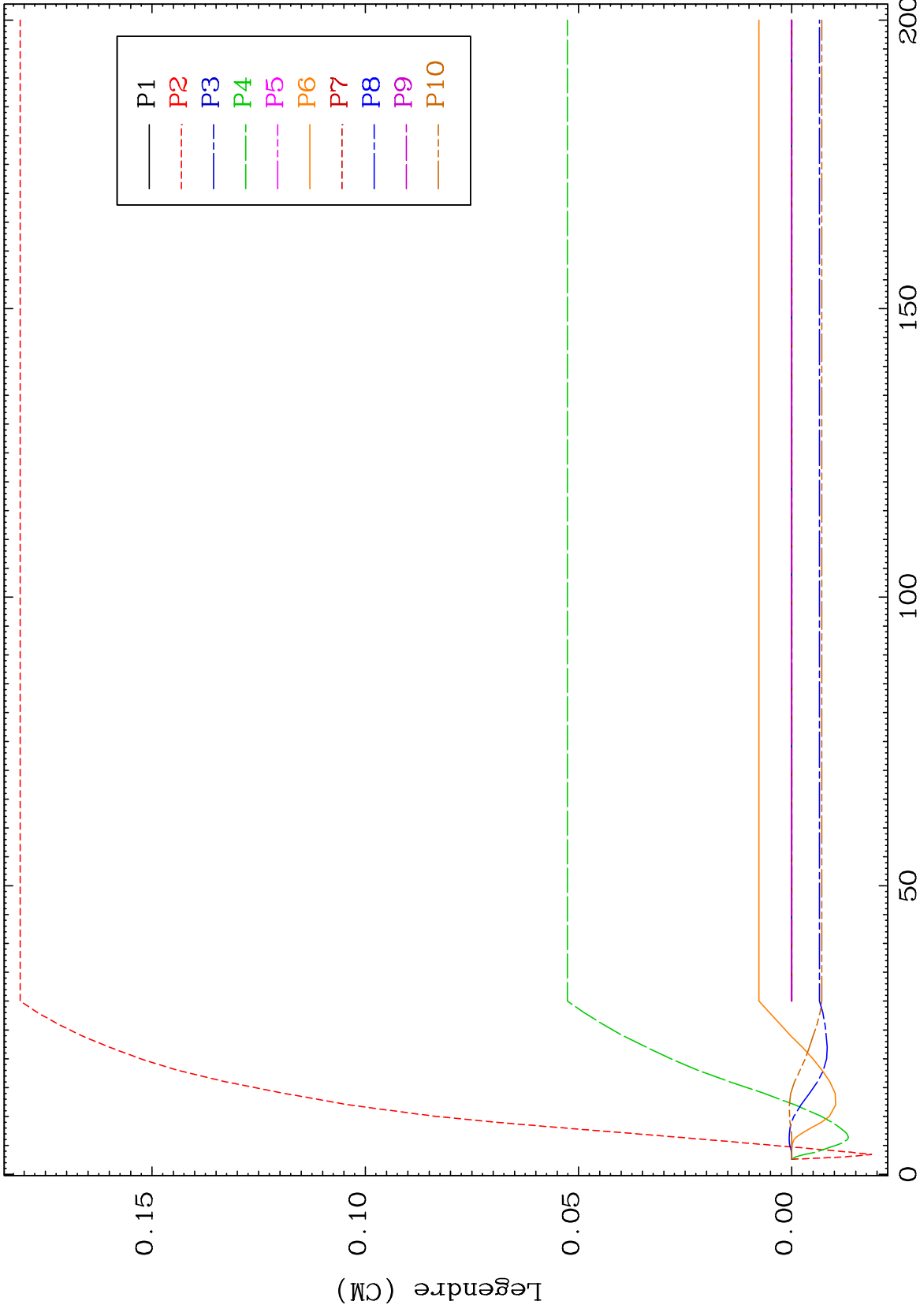


60-Nd-142

Incident Energy (MeV)

66

MAT 6025 MT= 63 (n,n') Level Legendre Coefficients 60-Nd-142

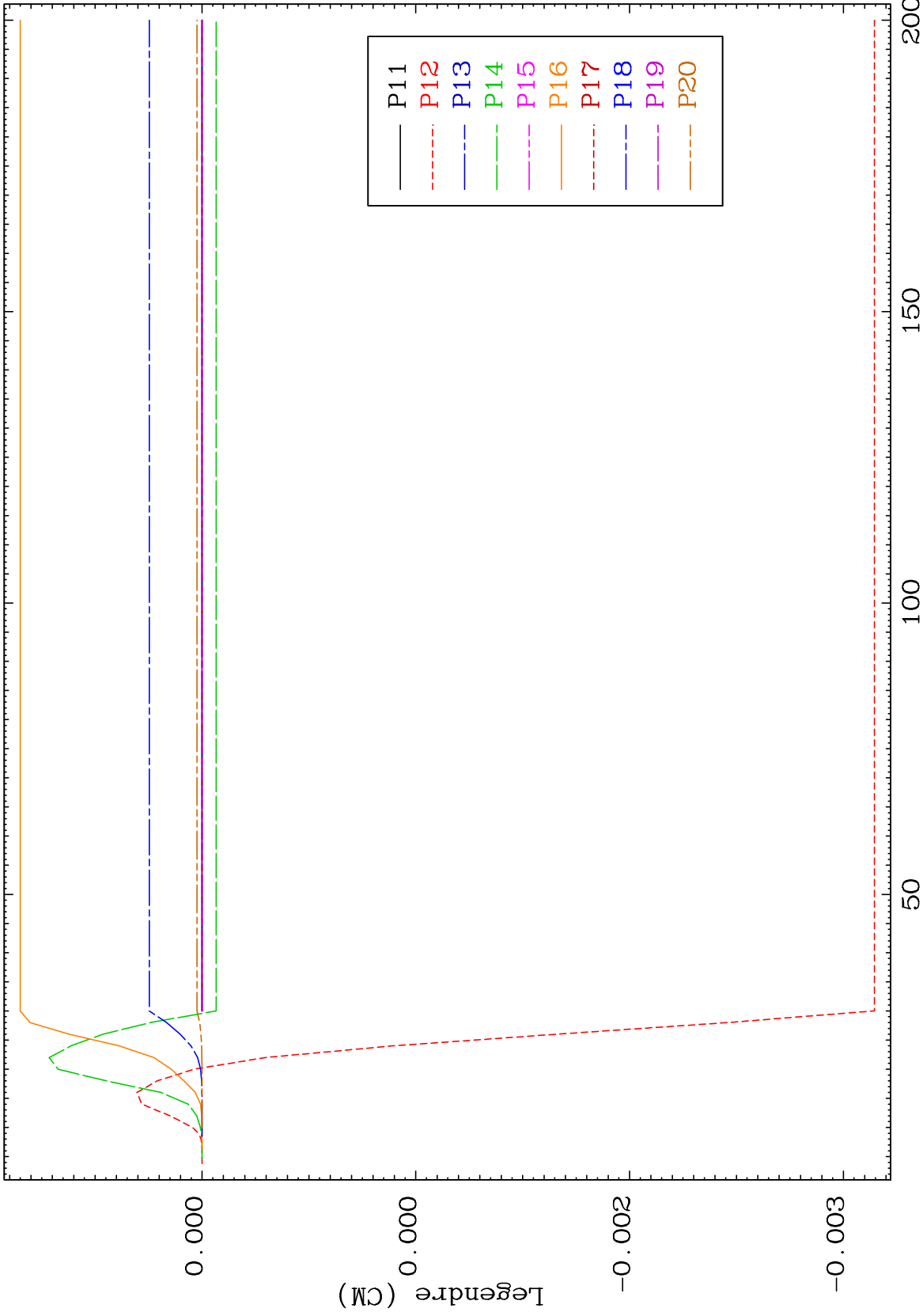


67 Incident Energy (MeV) 60-Nd-142

MAT 6025

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

60-Nd-142

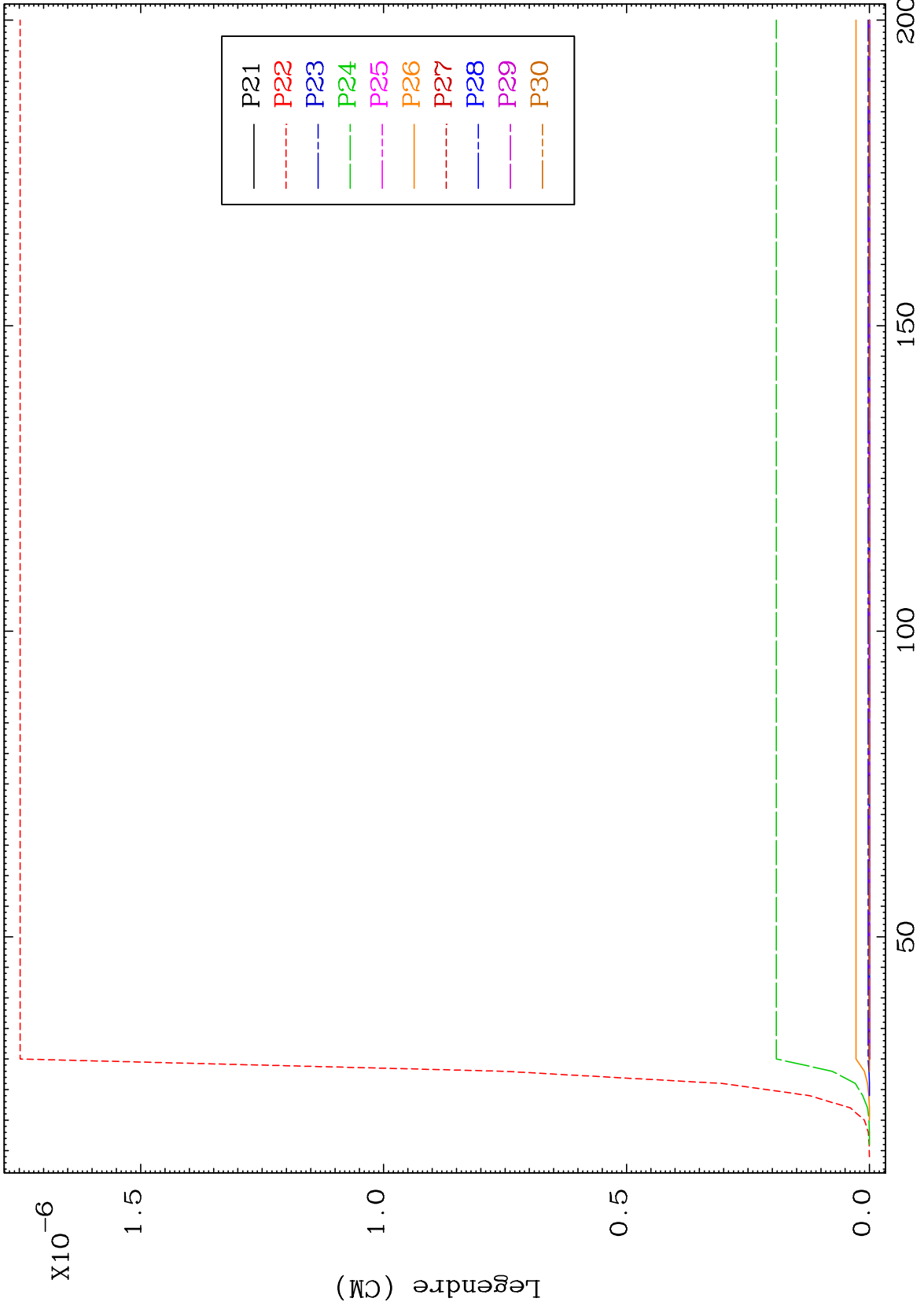


68

Incident Energy (MeV)

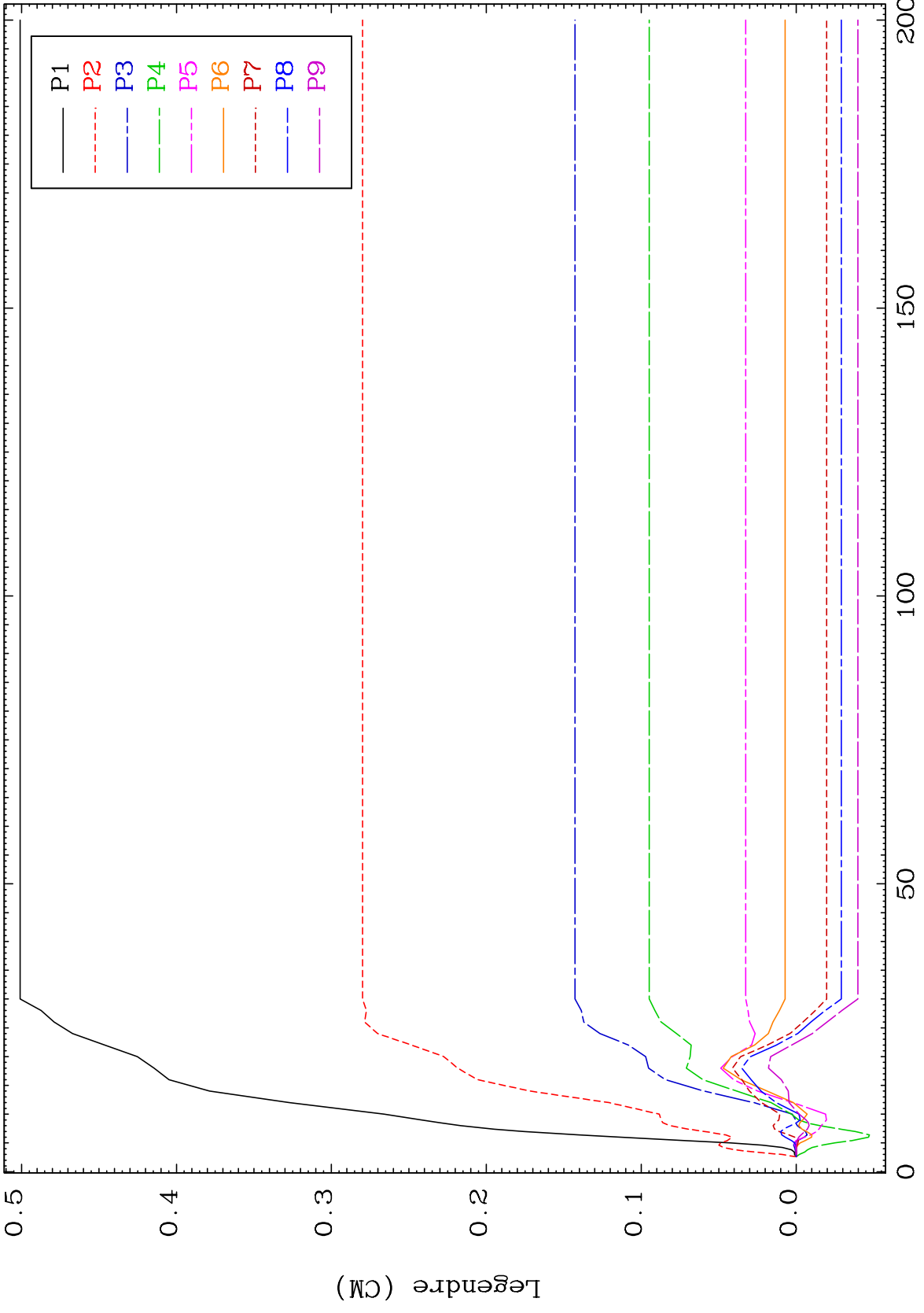
60-Nd-142

MAT 6025 MT= 63 (n,n') Level Legendre Coefficients 60-Nd-142



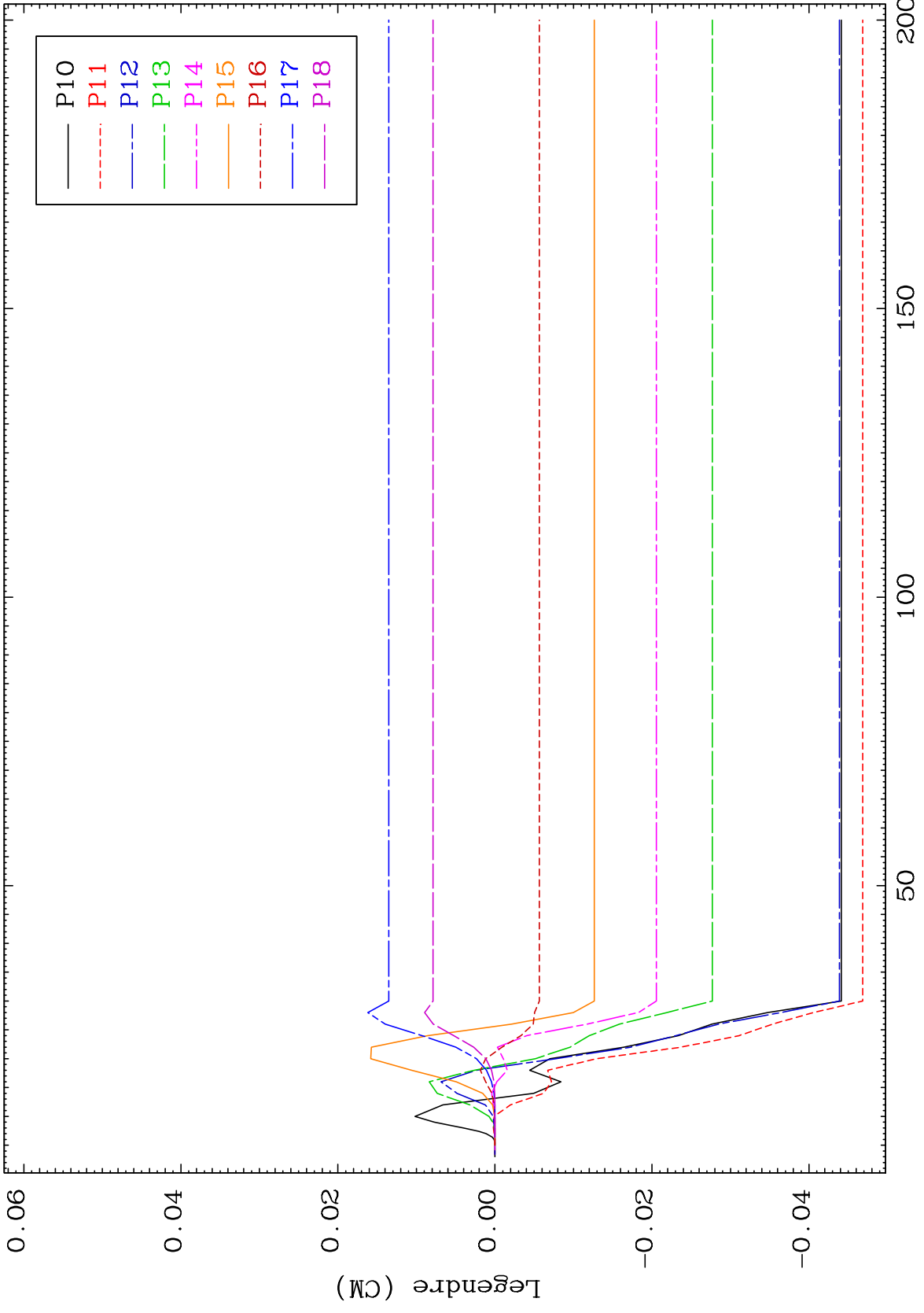
69 60-Nd-142

MAT 6025 MT= 64 (n,n') Level Legendre Coefficients 60-Nd-142



Legendre (CM) Incident Energy (MeV) 60-Nd-142

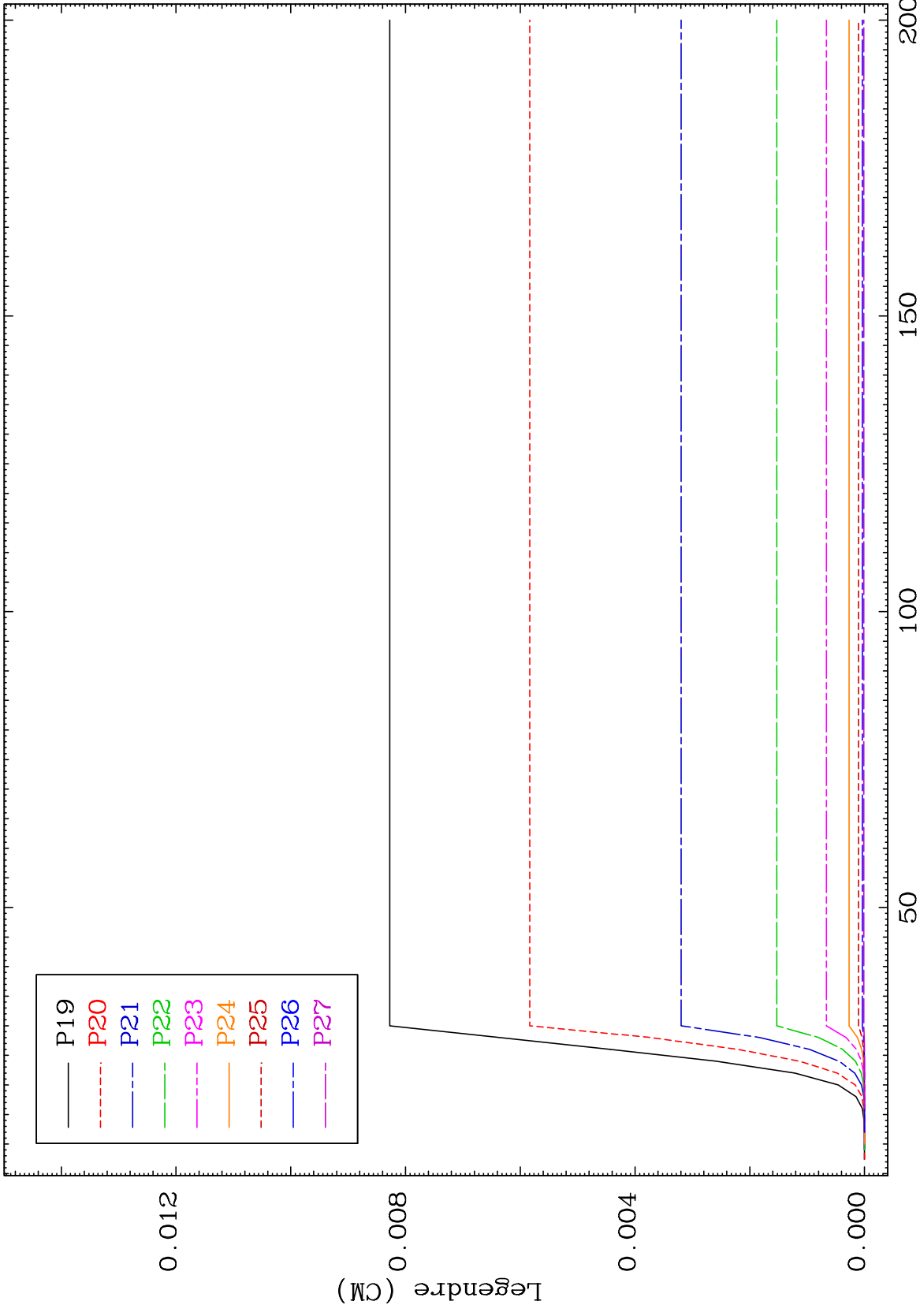
MAT 6025 MT= 64 (n,n') Level Legendre Coefficients 60-Nd-142



MAT 6025

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

60-Nd-142



72

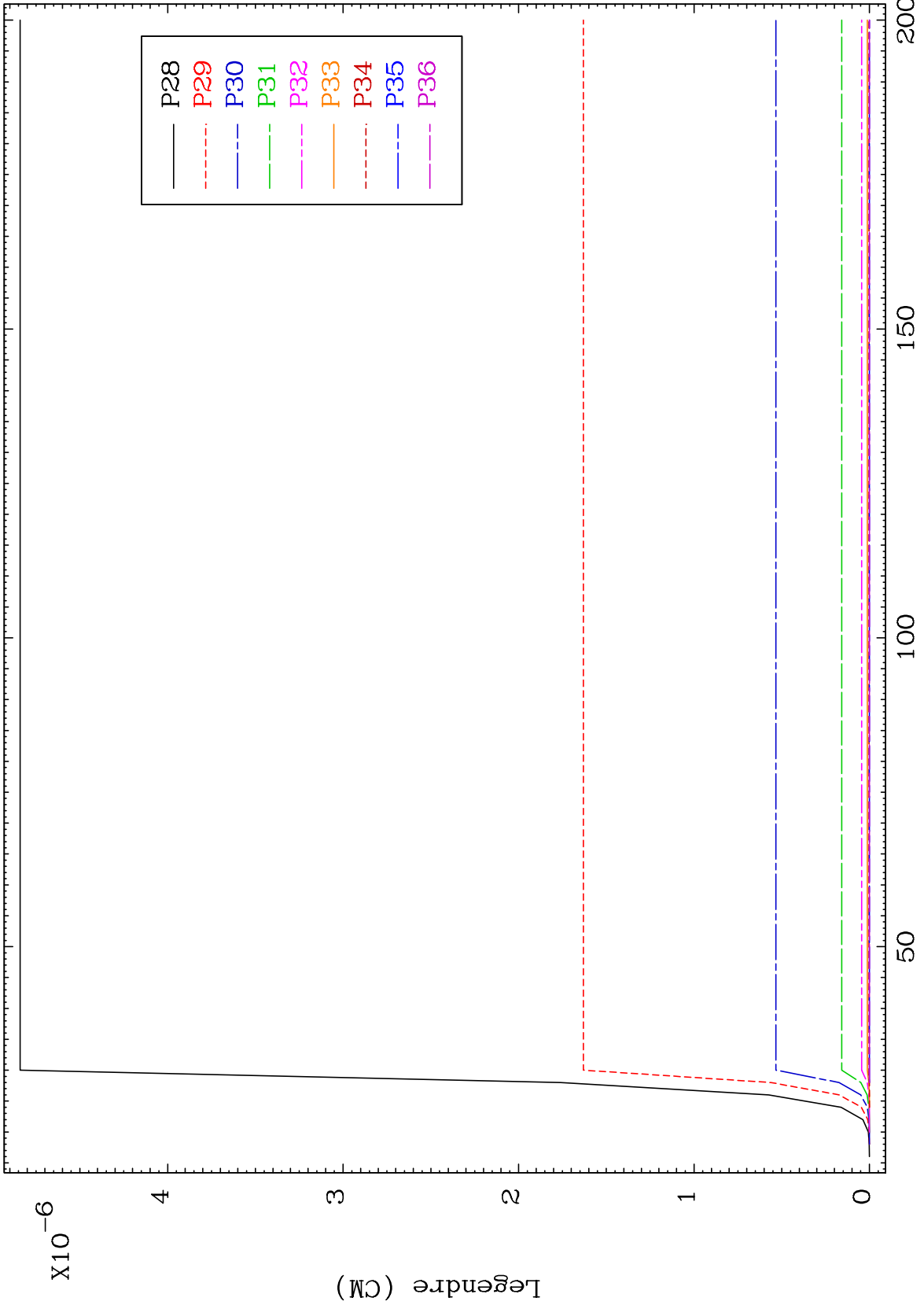
Incident Energy (MeV)

60-Nd-142

MAT 6025

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

60-Nd-142

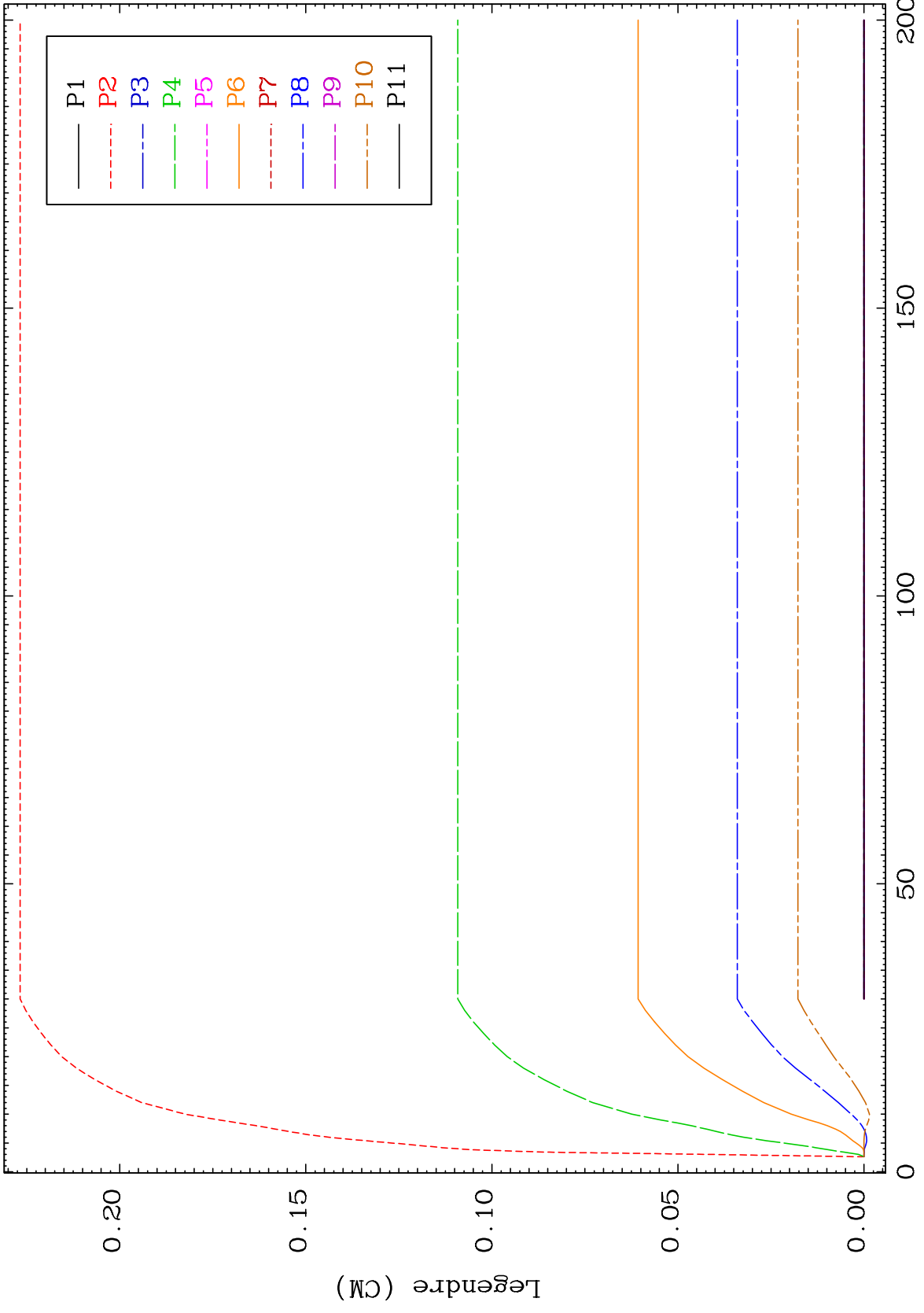


73

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 65 (n,n') Level Legendre Coefficients 60-Nd-142

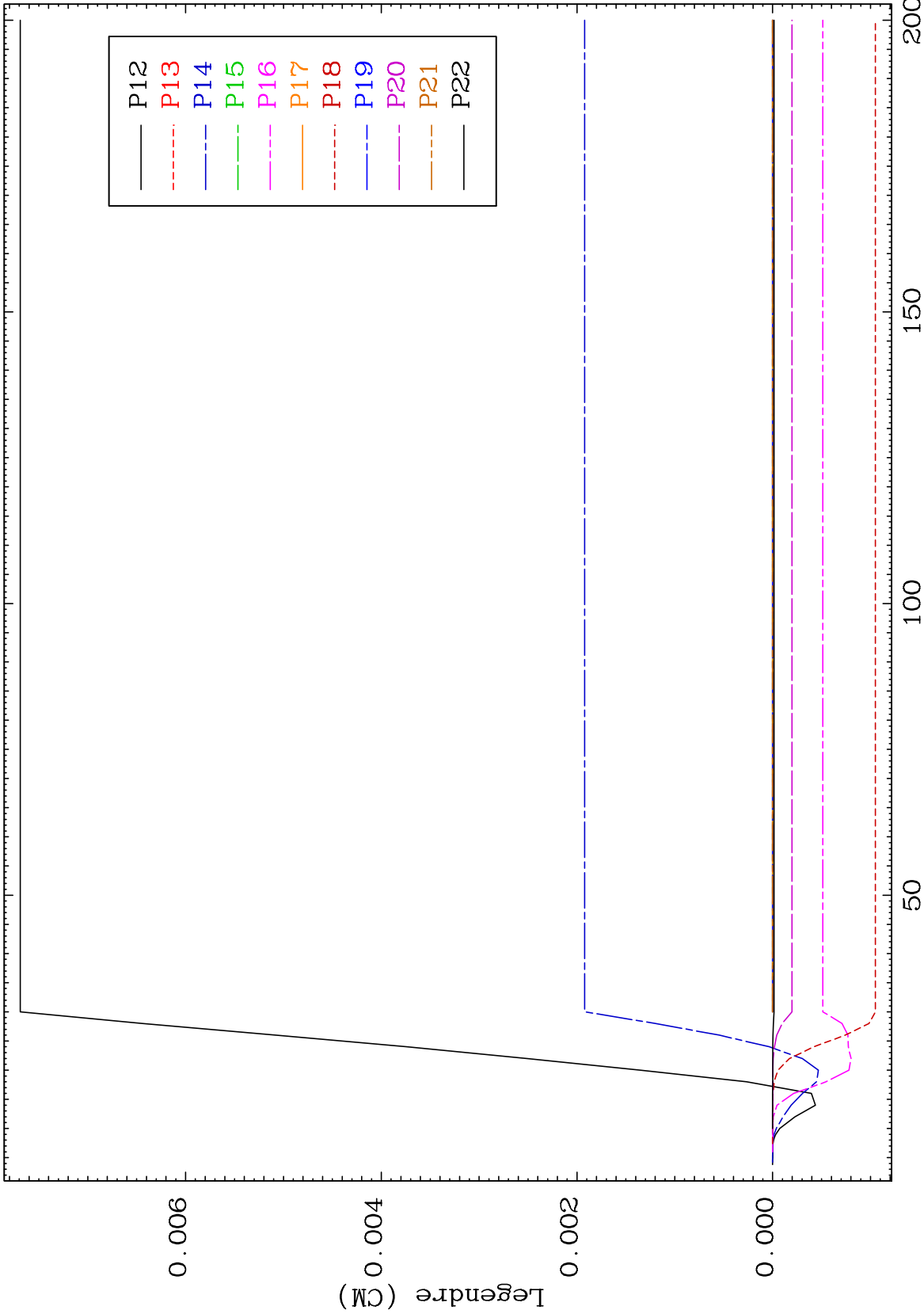


74 60-Nd-142

MAT 6025

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

60-Nd-142

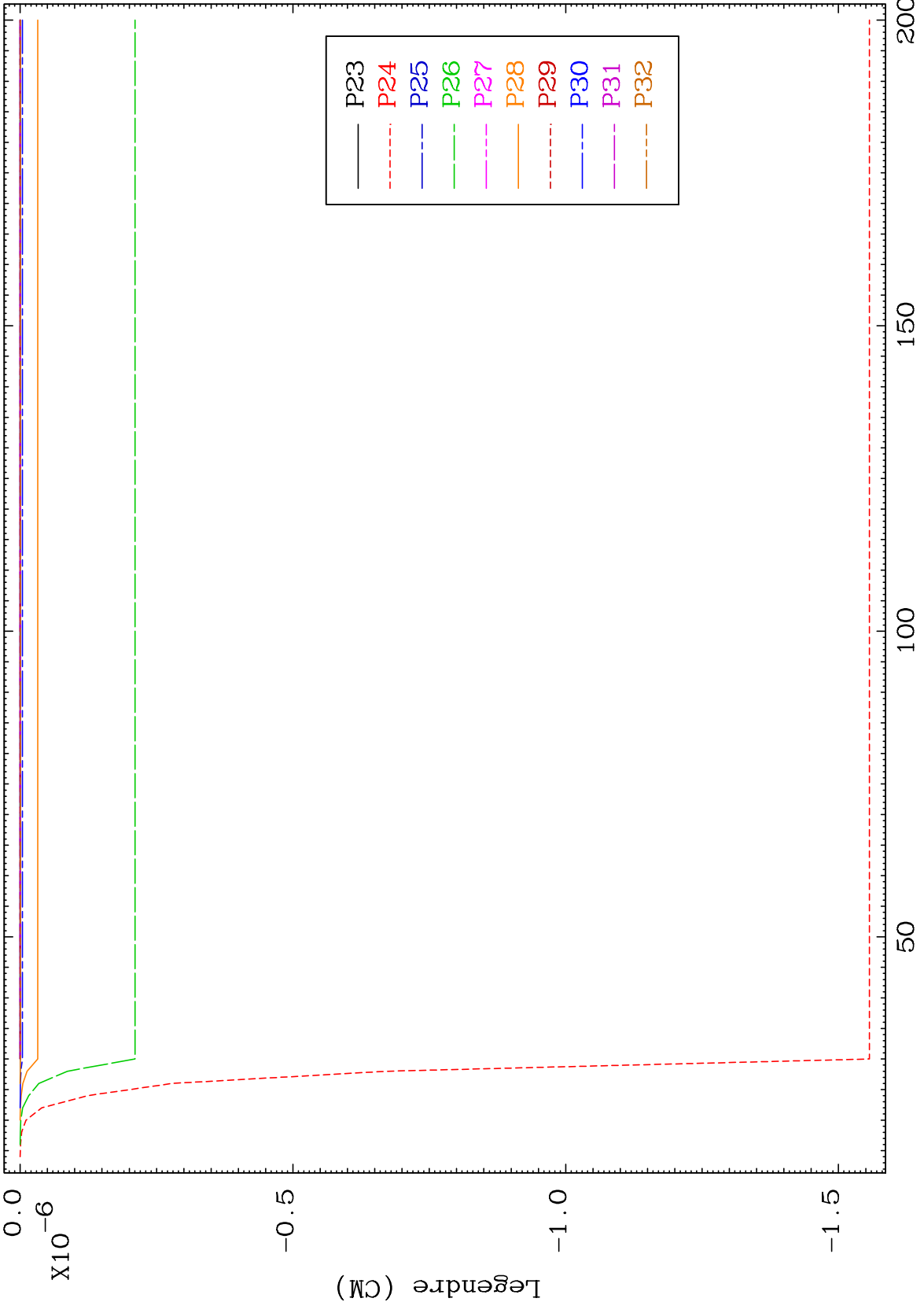


75

Incident Energy (MeV)

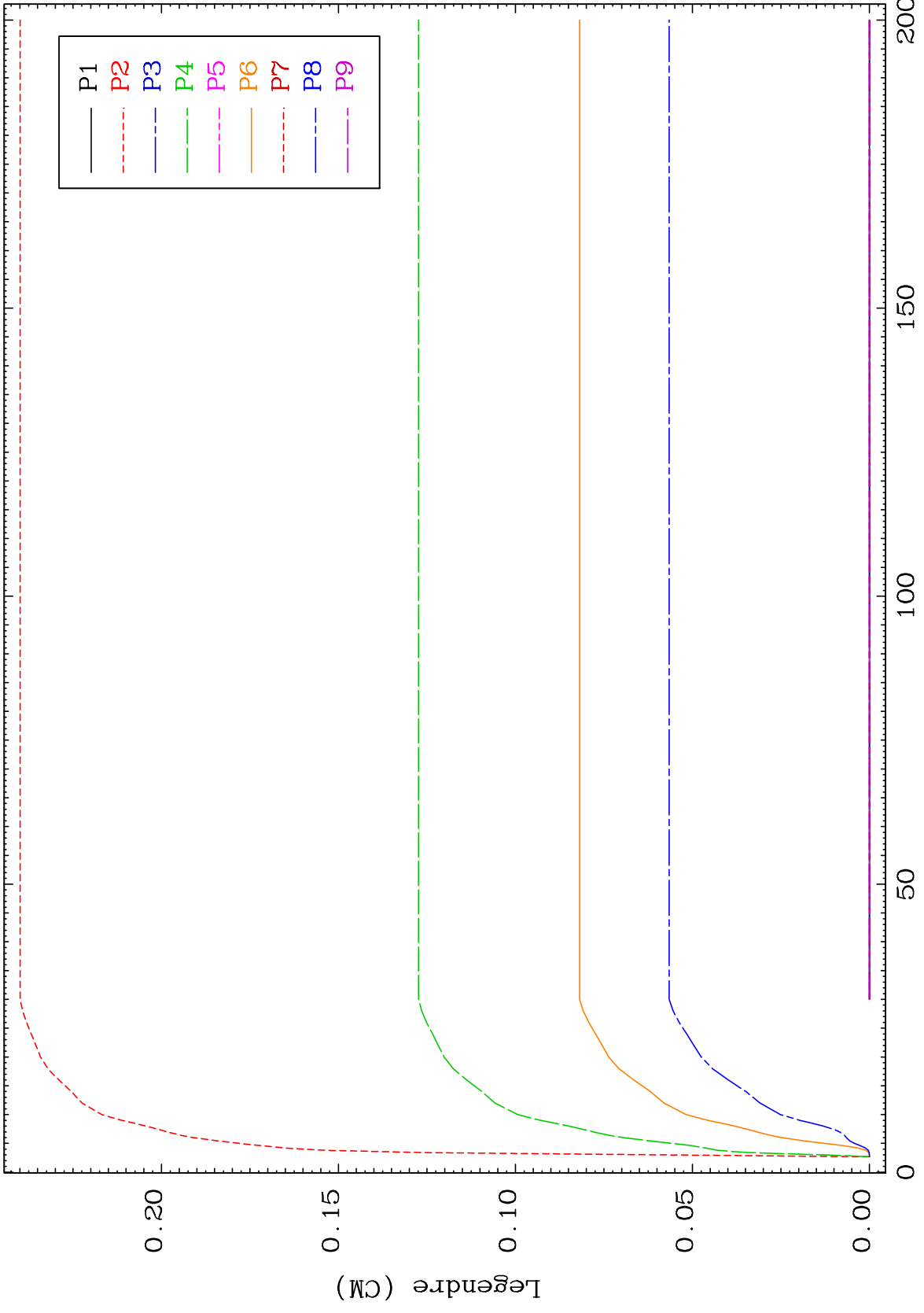
60-Nd-142

MAT 6025 MT= 65 (n,n') Level Legendre Coefficients 60-Nd-142



76 Incident Energy (MeV) 60-Nd-142

MAT 6025 MT= 66 (n,n') Level Legendre Coefficients 60-Nd-142

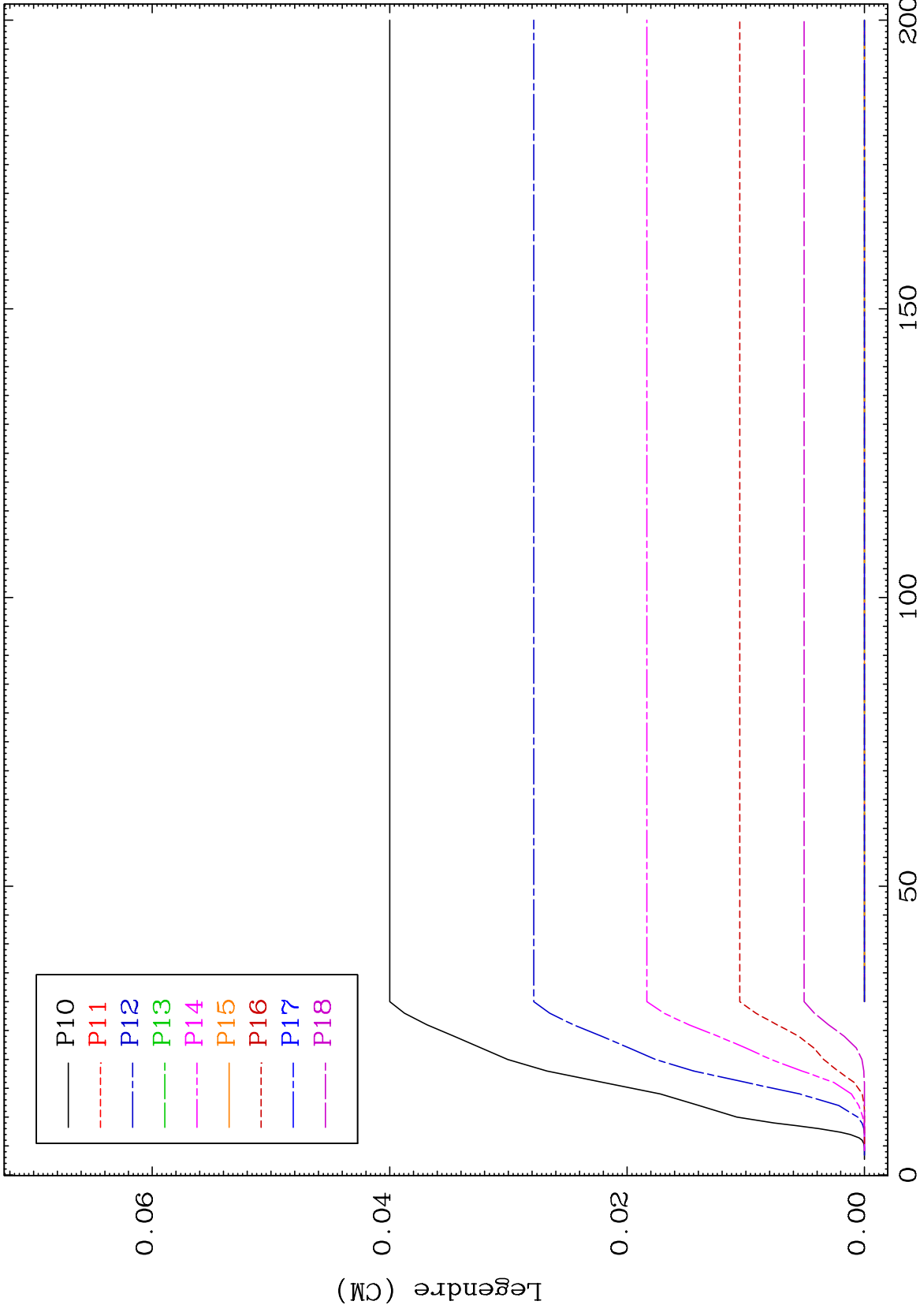


77 60-Nd-142

MAT 6025

MT= 66 (n,n') Level
Legendre Coefficients

60-Nd-142

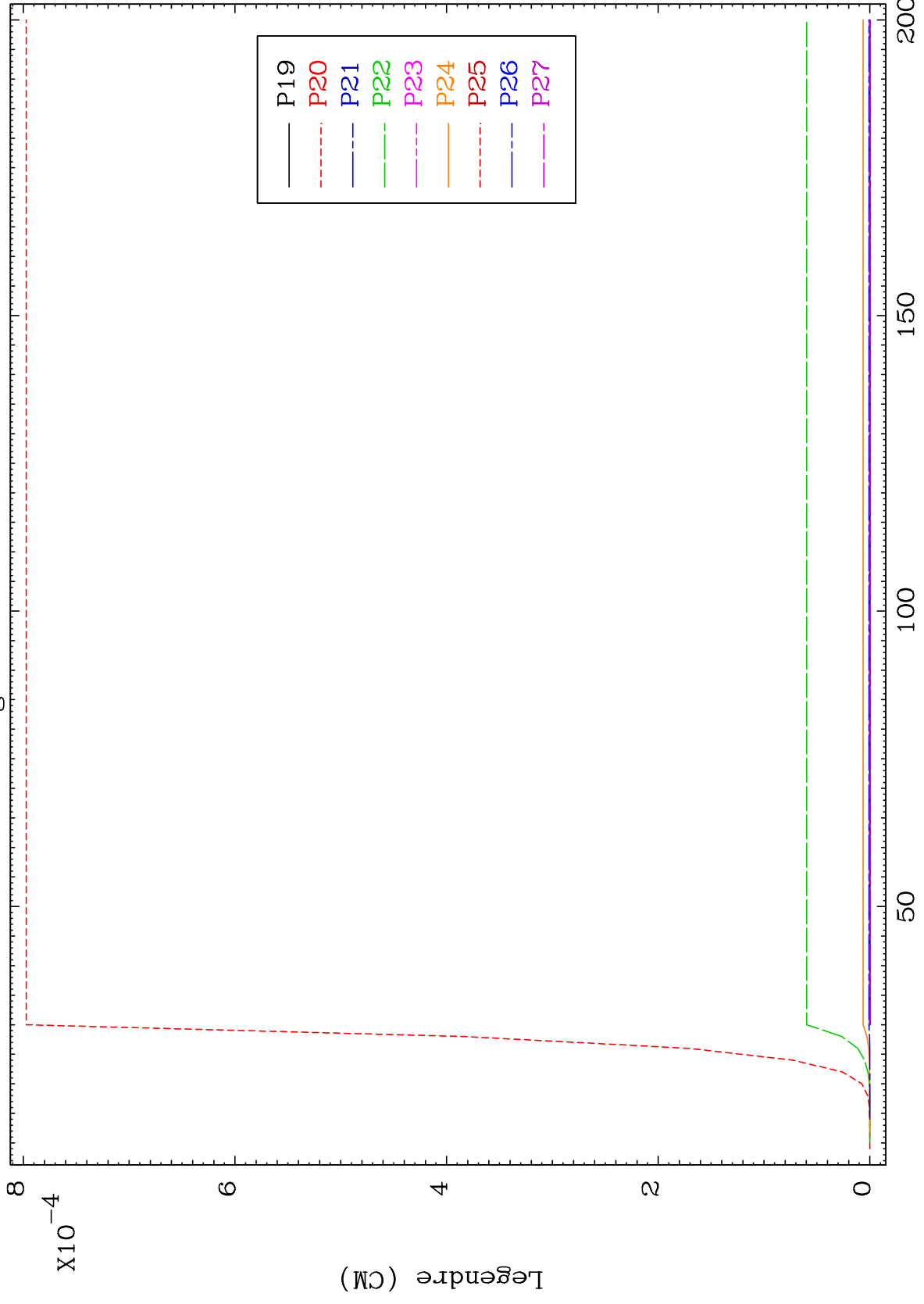


78

Incident Energy (MeV)

60-Nd-142

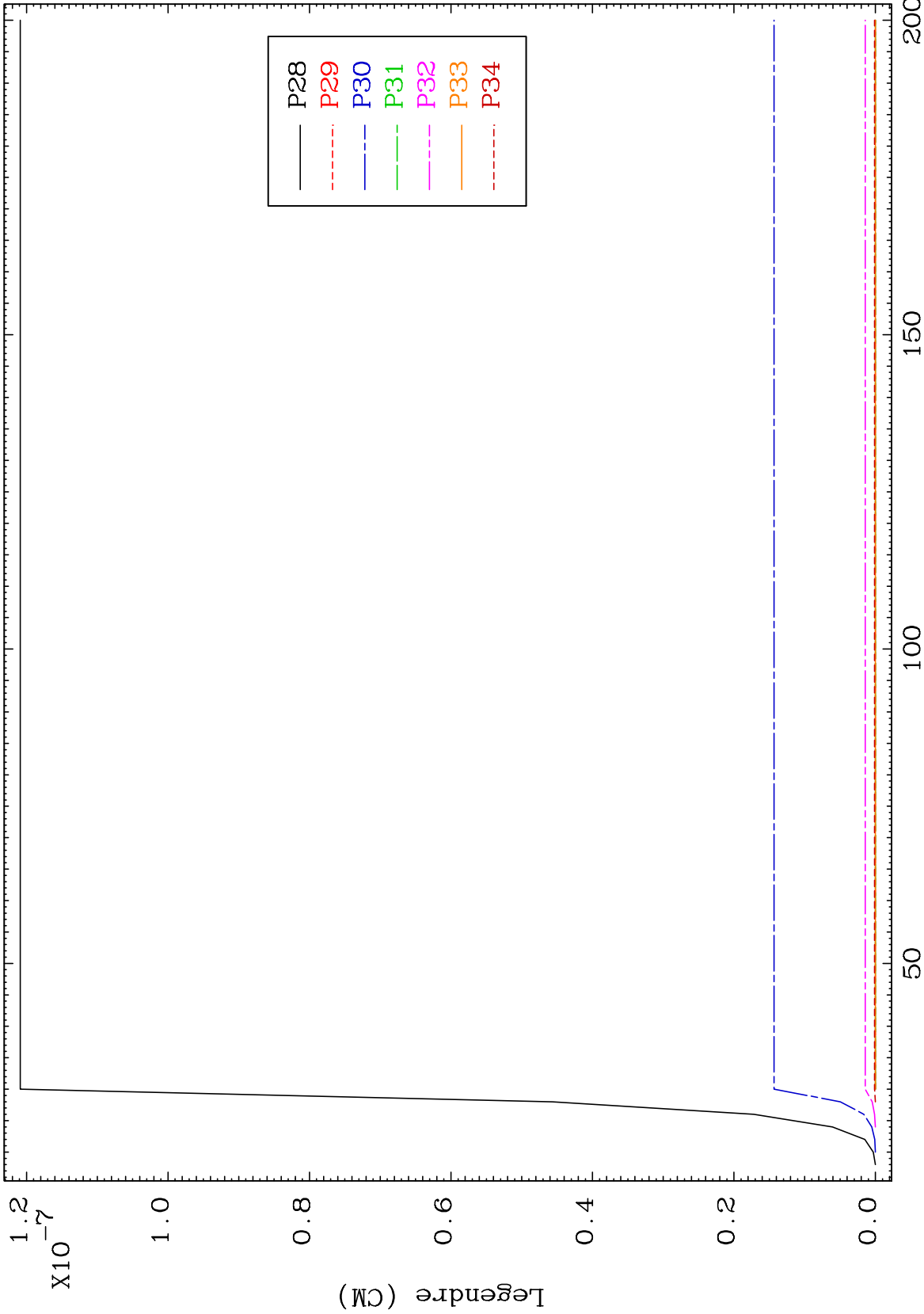
MAT 6025 MT= 66 (n,n') Level Legendre Coefficients 60-Nd-142



MAT 6025

MT= 66 (n,n') Level
Legendre Coefficients

60-Nd-142

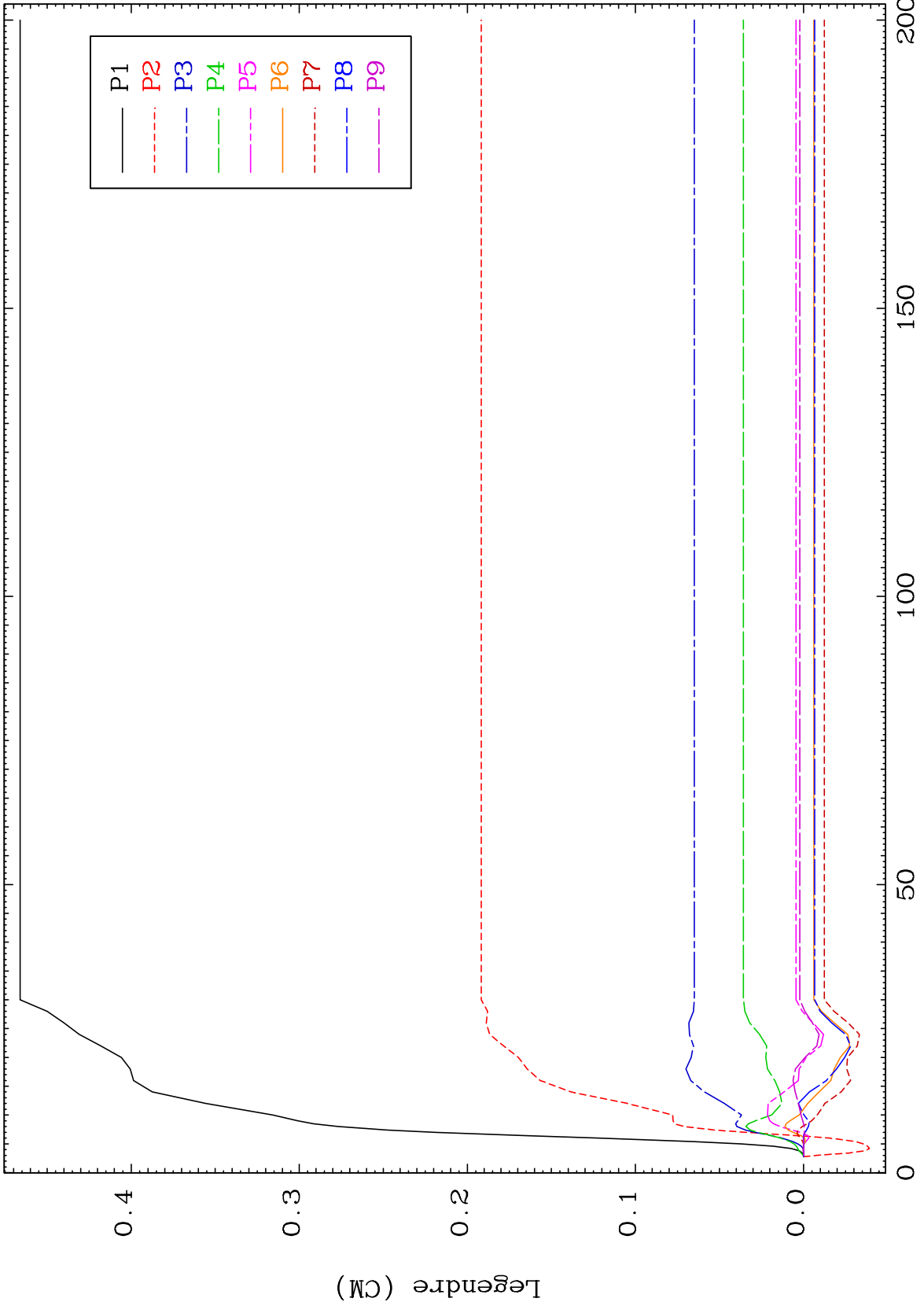


80

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 67 (n,n') Level Legendre Coefficients 60-Nd-142

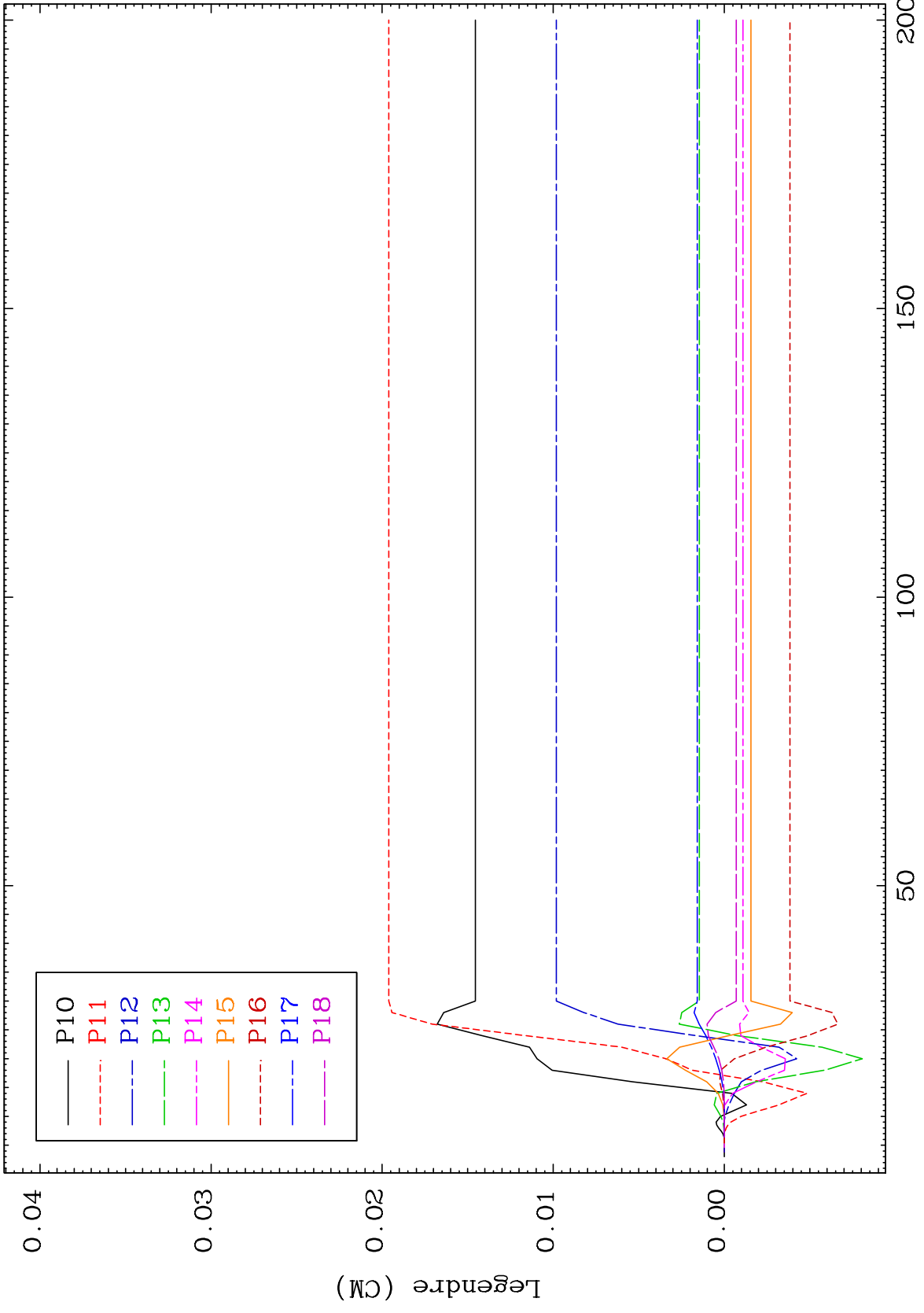


81 60-Nd-142

MAT 6025

MT= 67 (n,n') Level
Legendre Coefficients

60-Nd-142



82

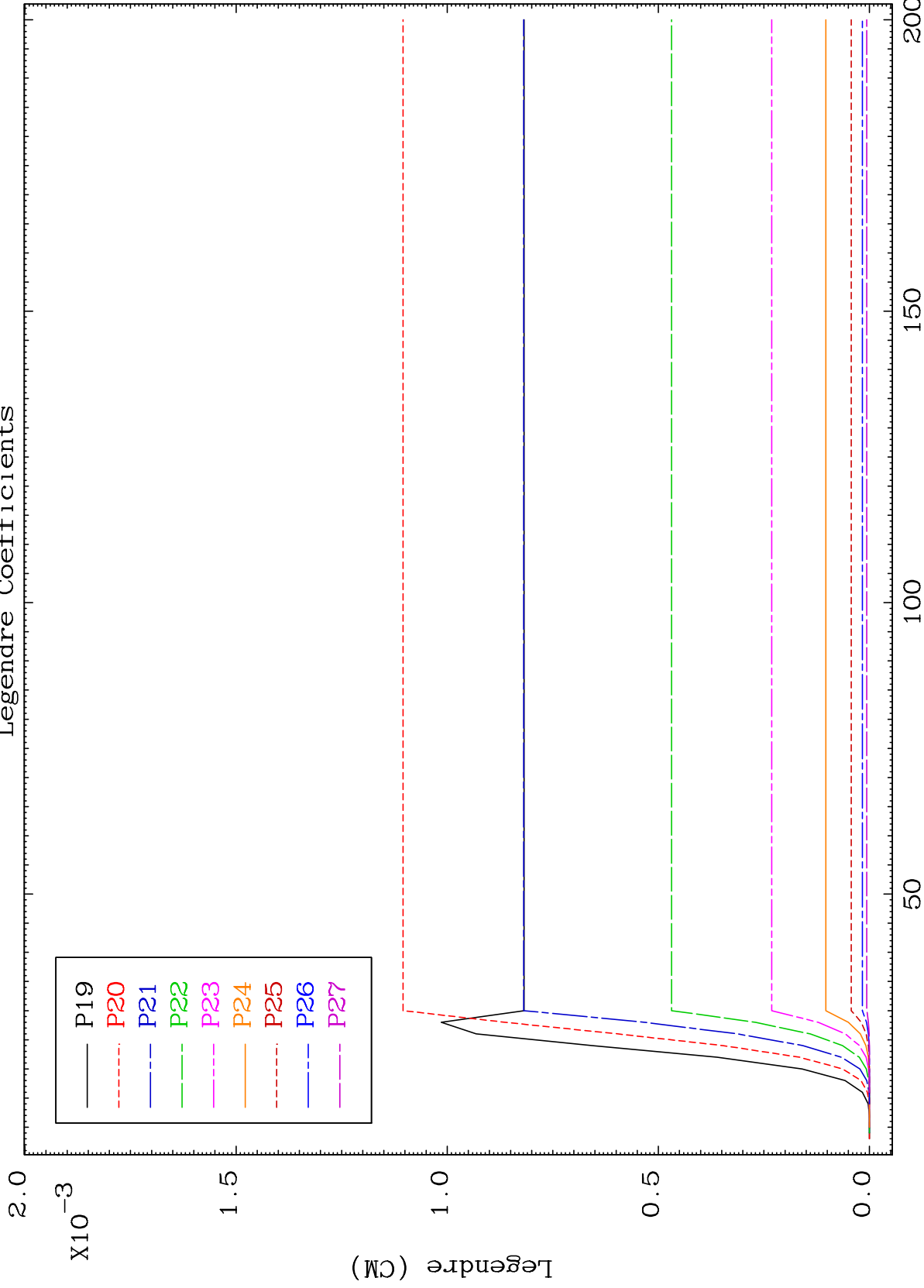
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 67 (n,n') Level
Legendre Coefficients

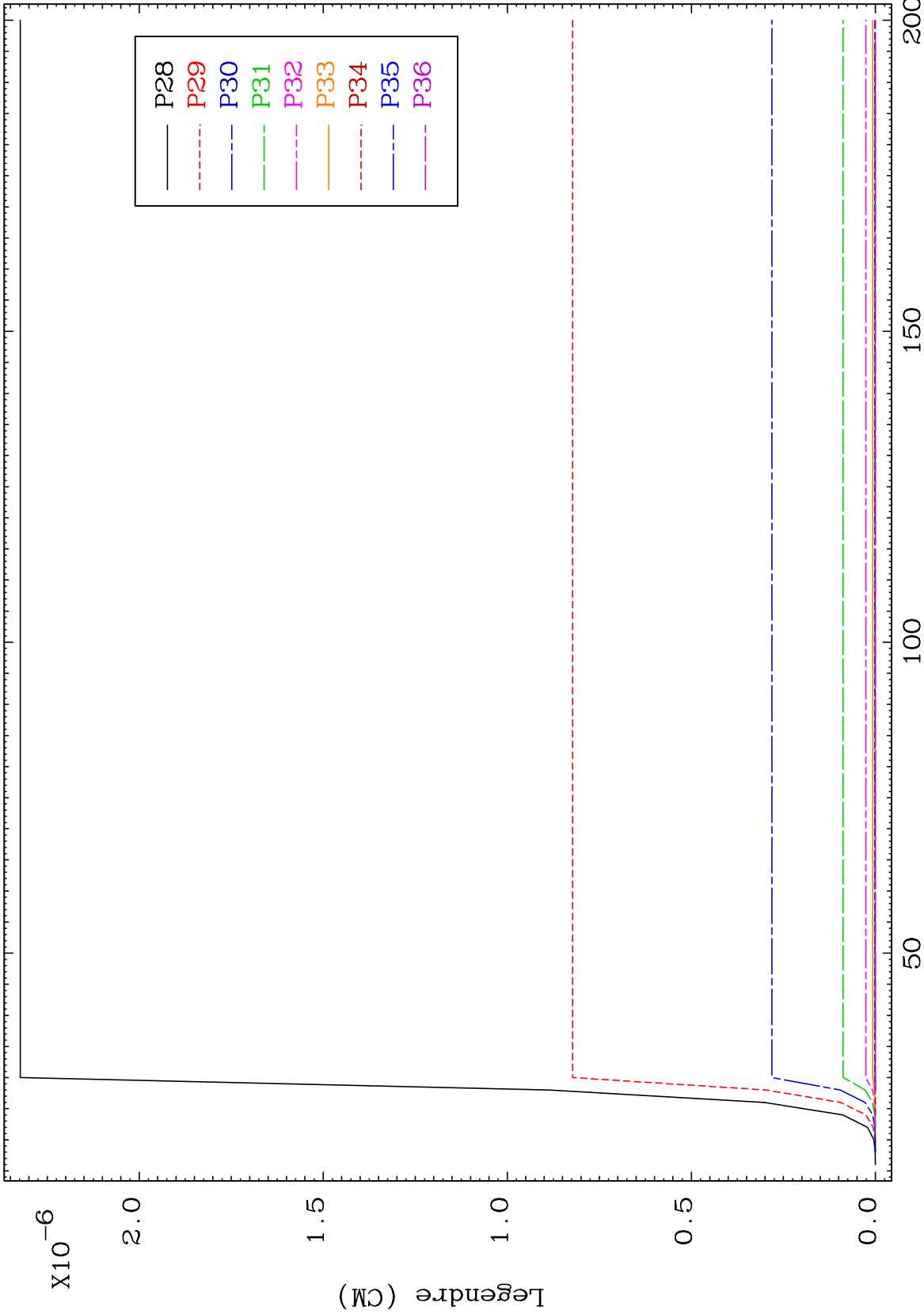
60-Nd-142



MAT 6025

MT= 67 (n,n') Level
Legendre Coefficients

60-Nd-142



84

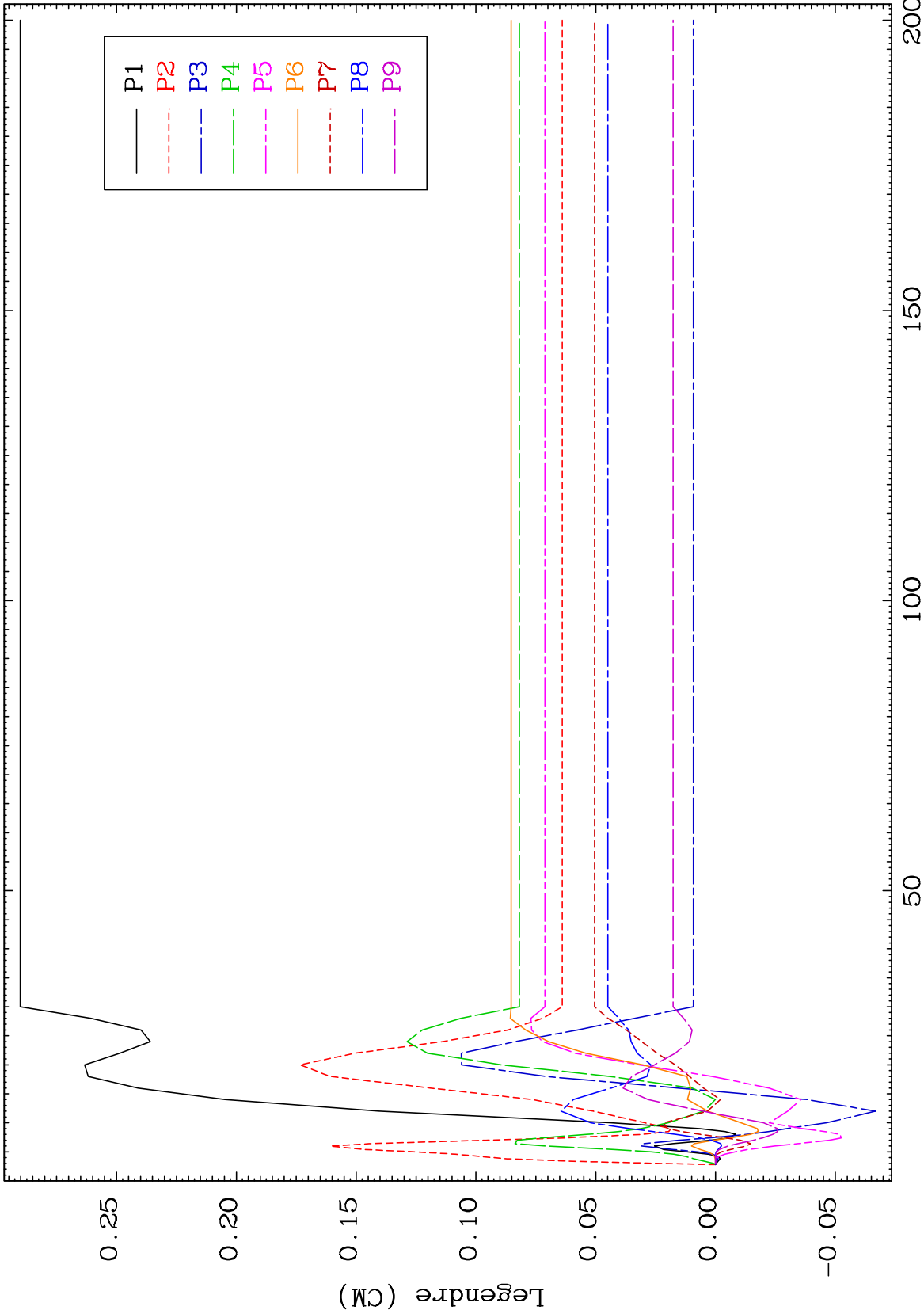
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 68 (n,n') Level
Legendre Coefficients

60-Nd-142



85

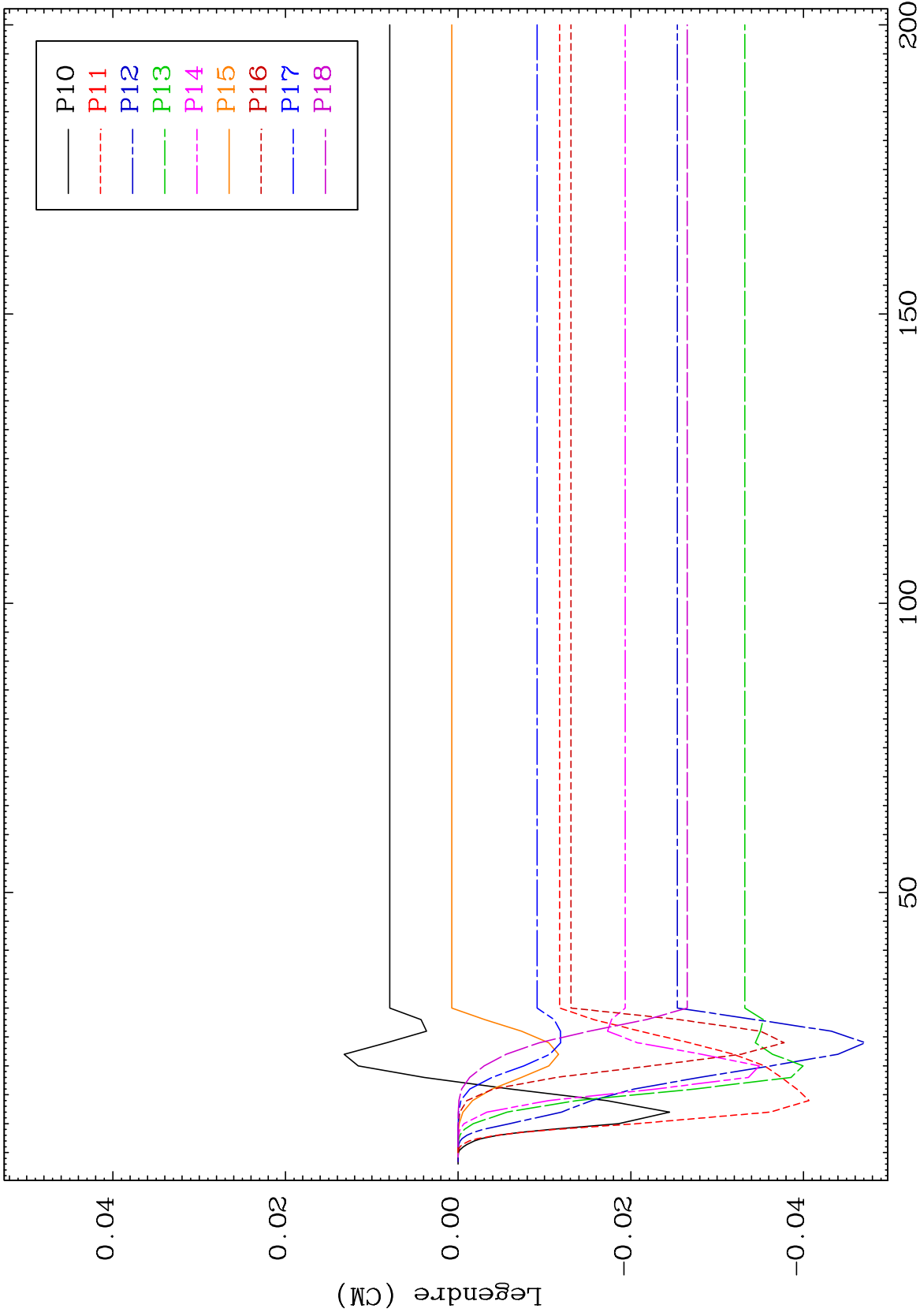
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 68 (n,n') Level
Legendre Coefficients

60-Nd-142

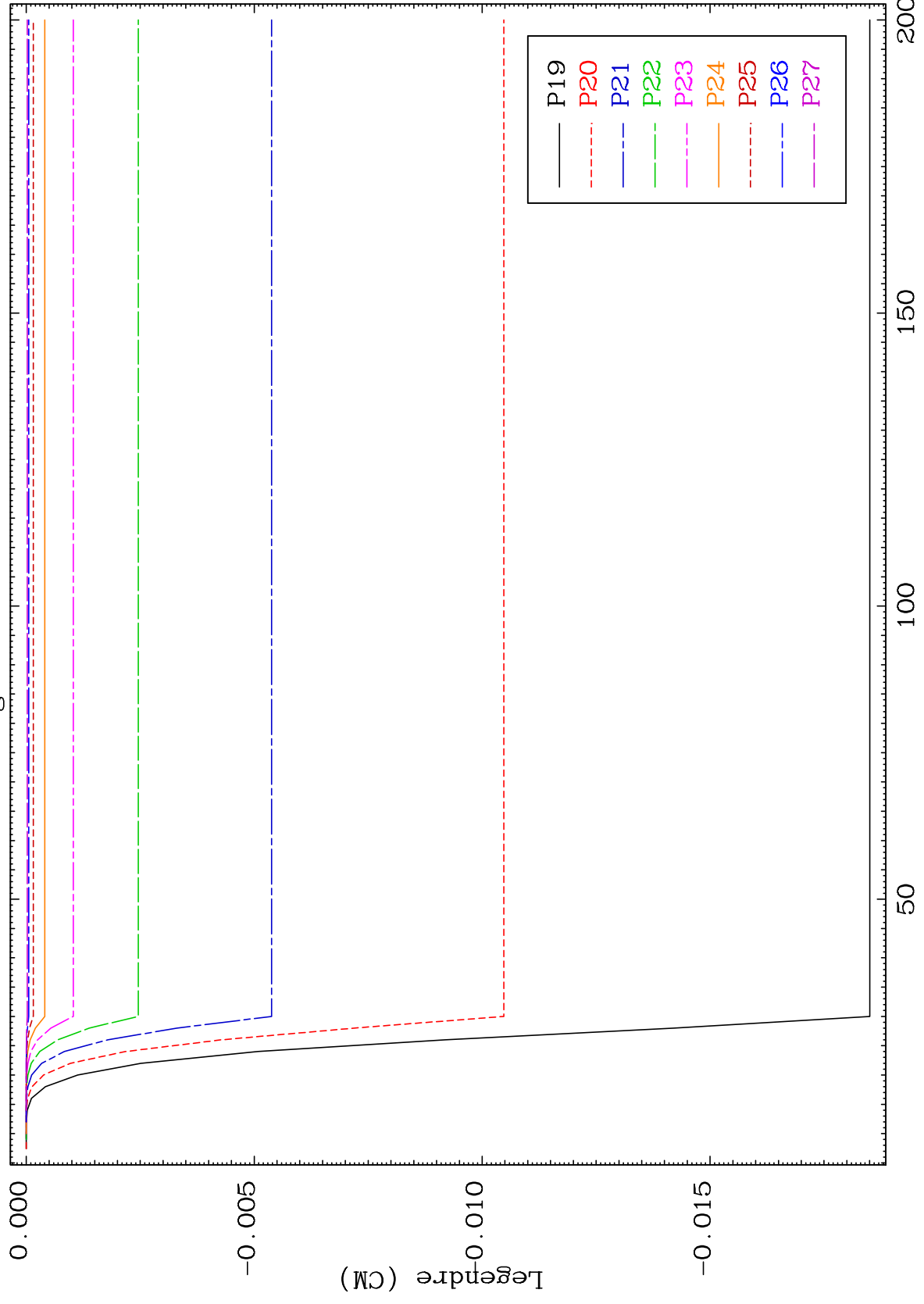


86

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 68 (n,n') Level Legendre Coefficients 60-Nd-142



MAT 6025

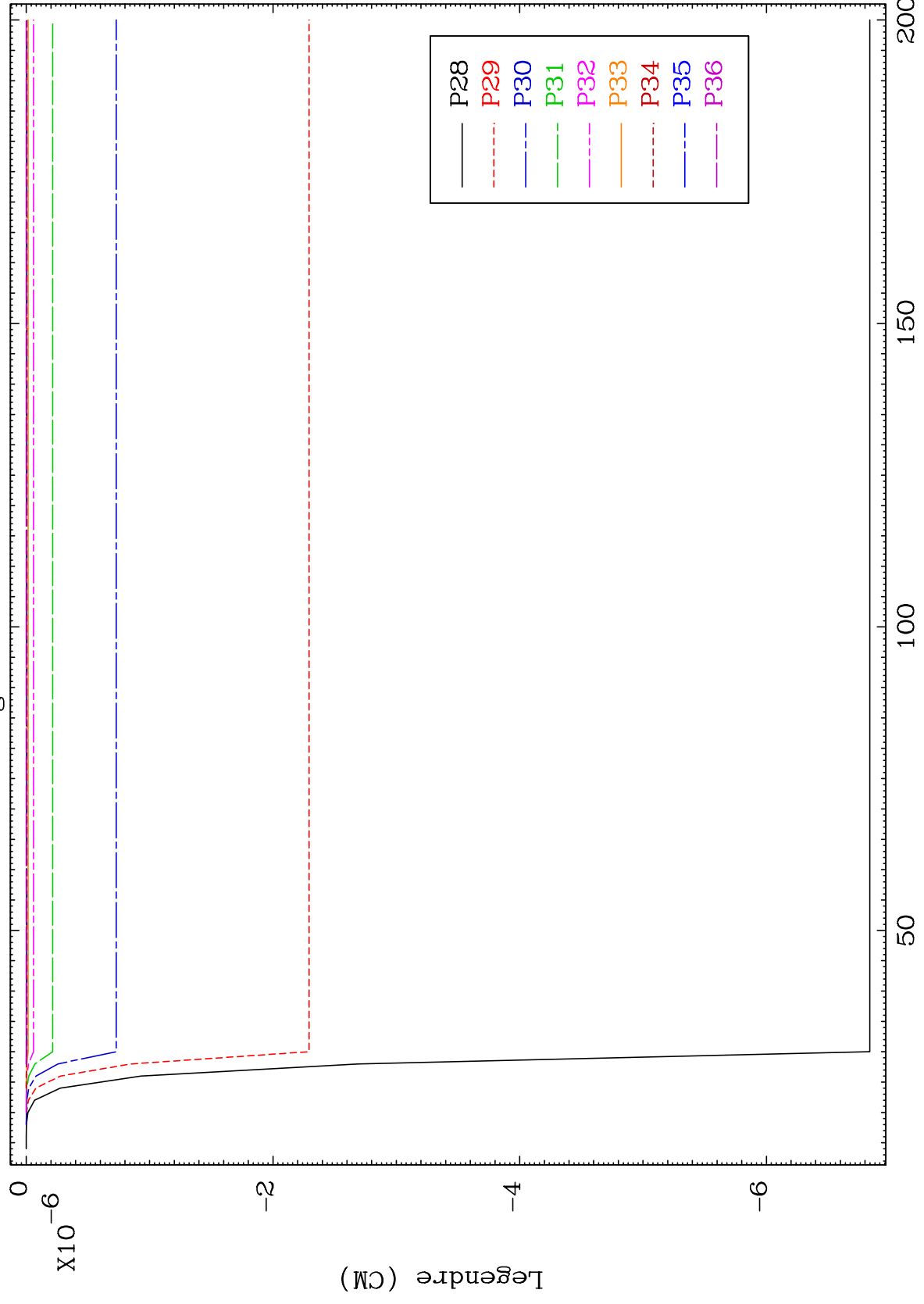
MT= 68 (n,n') Level
Legendre Coefficients

60-Nd-142

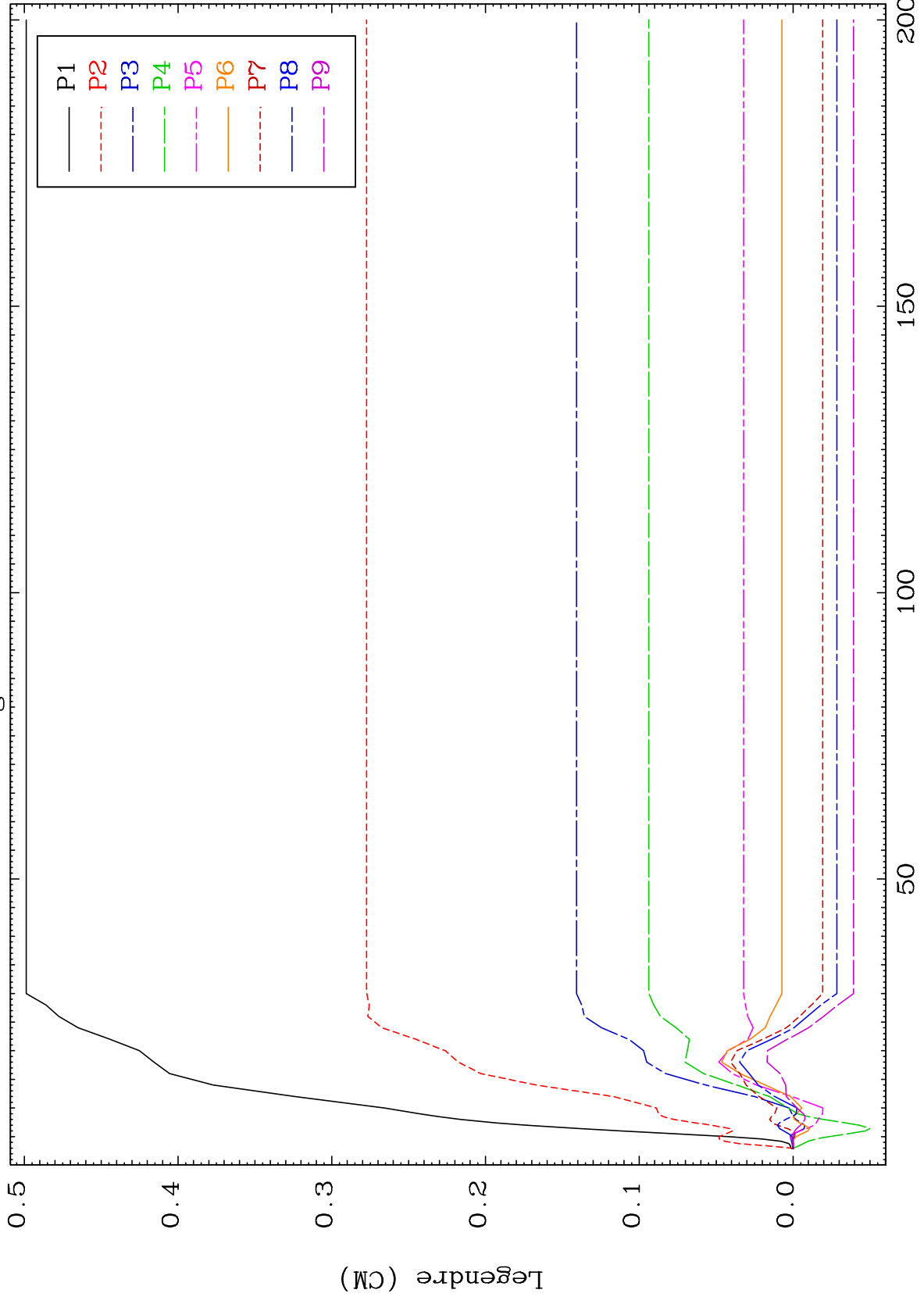
60-Nd-142

Incident Energy (MeV)

88

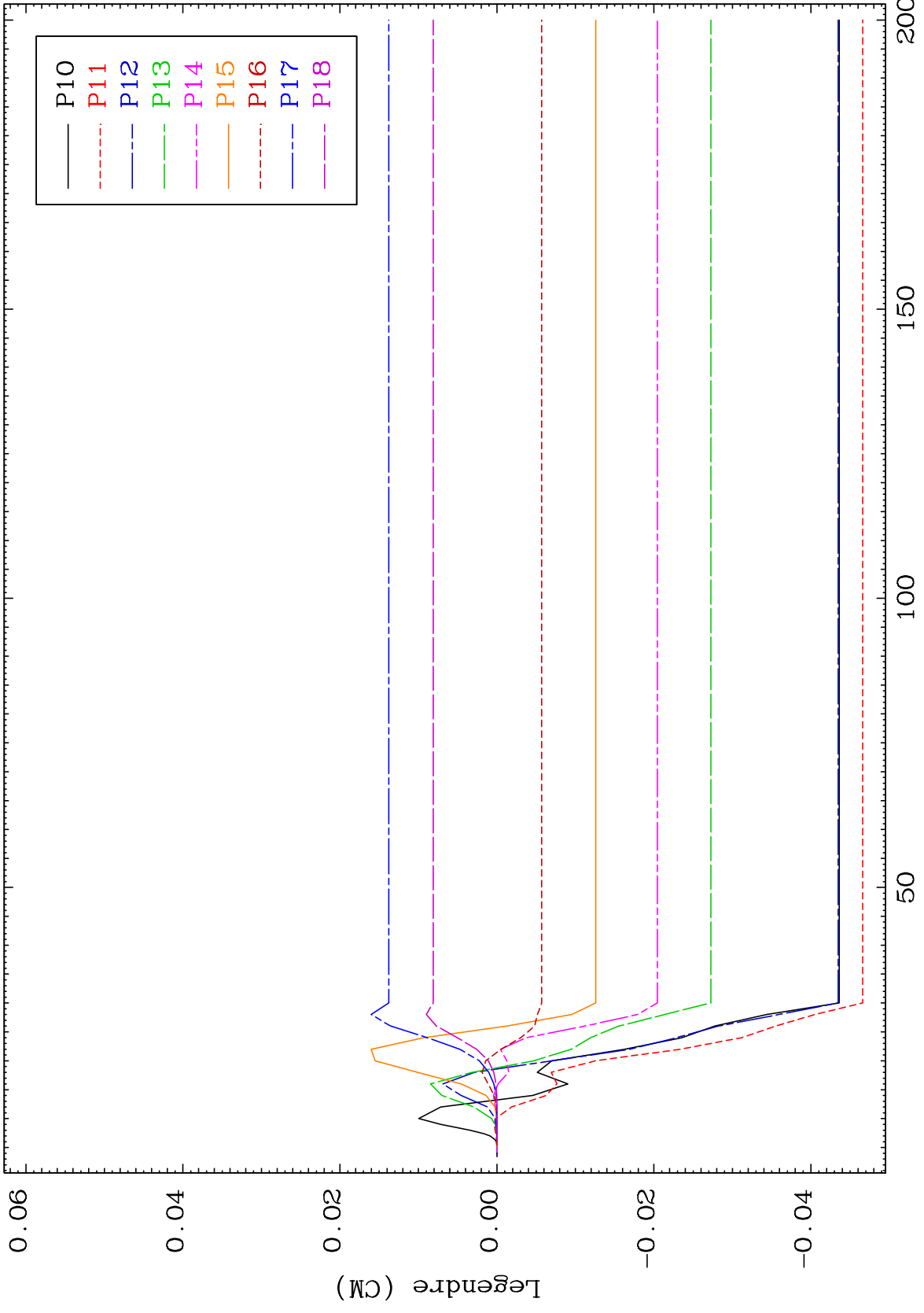


MAT 6025 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-142



89 Incident Energy (MeV) 60-Nd-142

MAT 6025 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-142

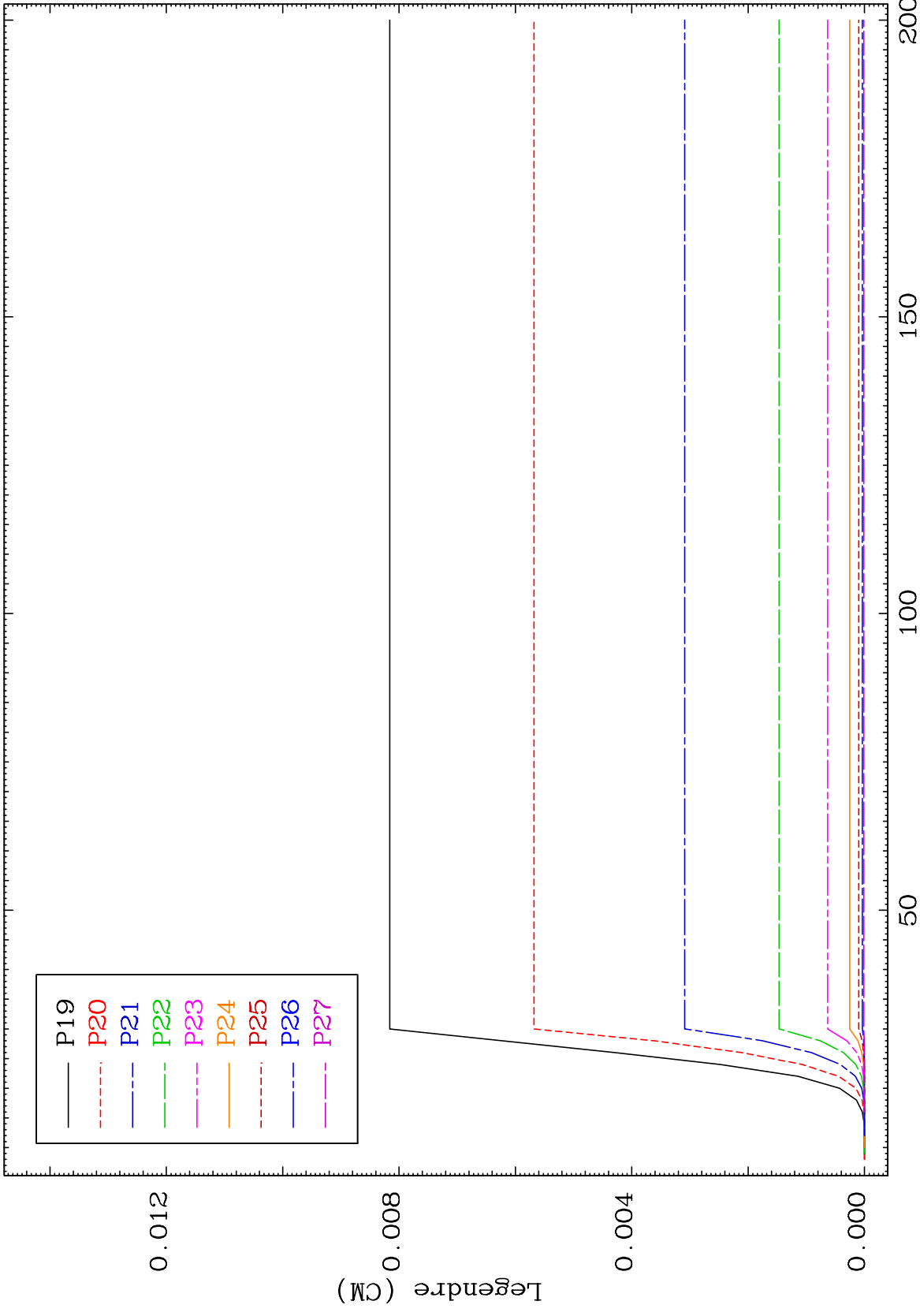


90 50 100 150 200 Incident Energy (MeV) 60-Nd-142

MAT 6025

MT= 69 (n,n') Level
Legendre Coefficients

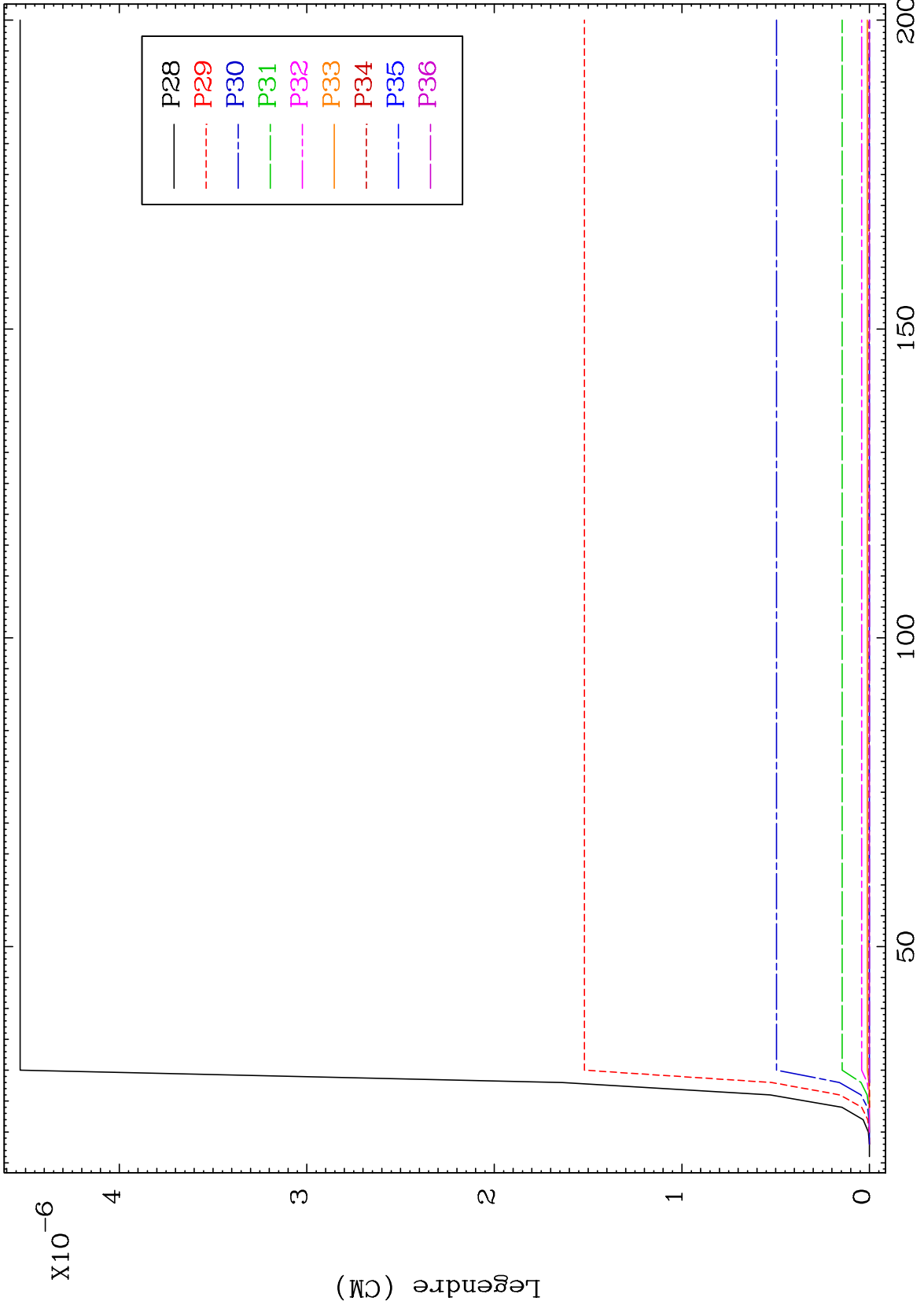
60-Nd-142



MAT 6025

MT= 69 (n,n') Level
Legendre Coefficients

60-Nd-142

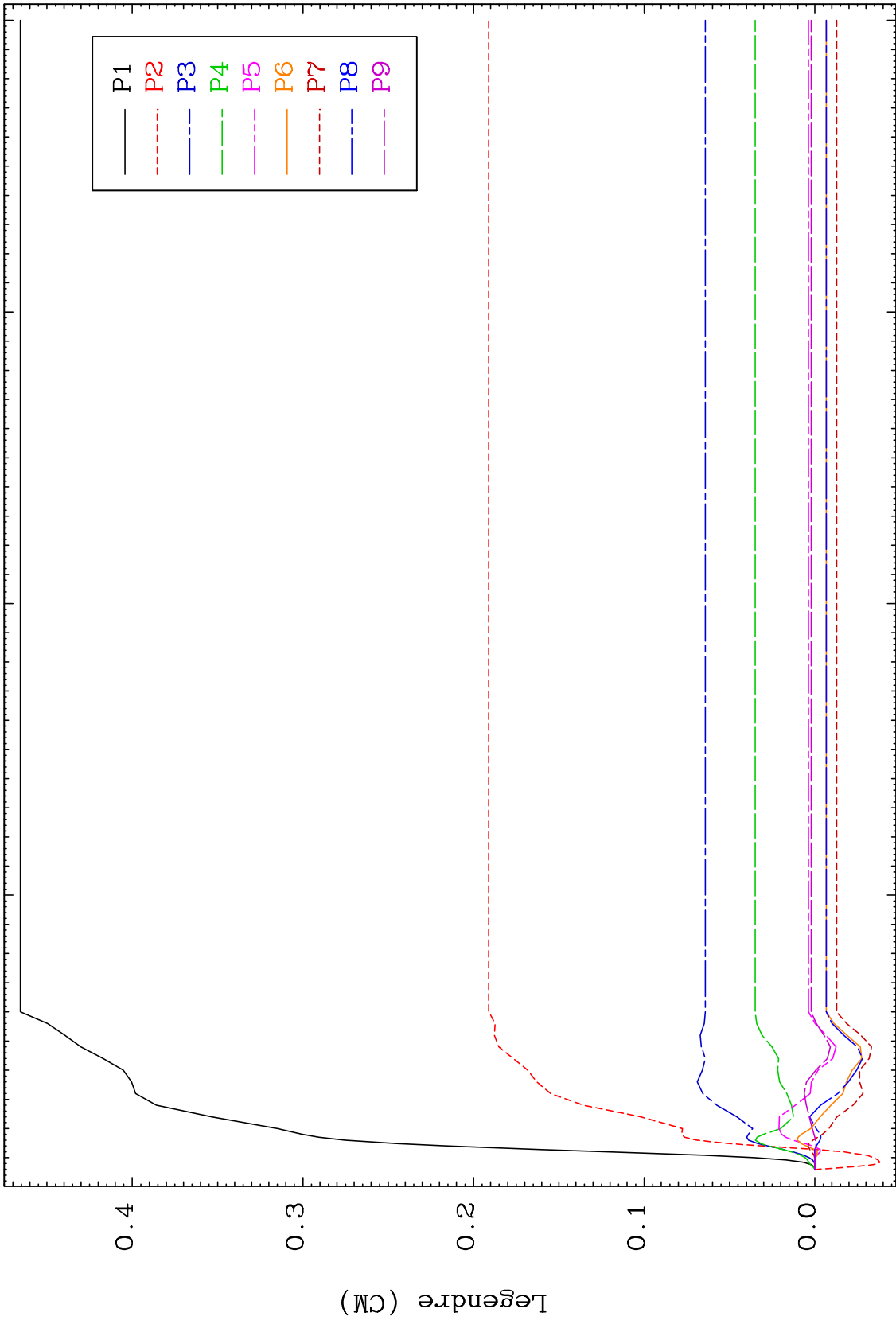


92

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 70 (n,n') Level Legendre Coefficients 60-Nd-142

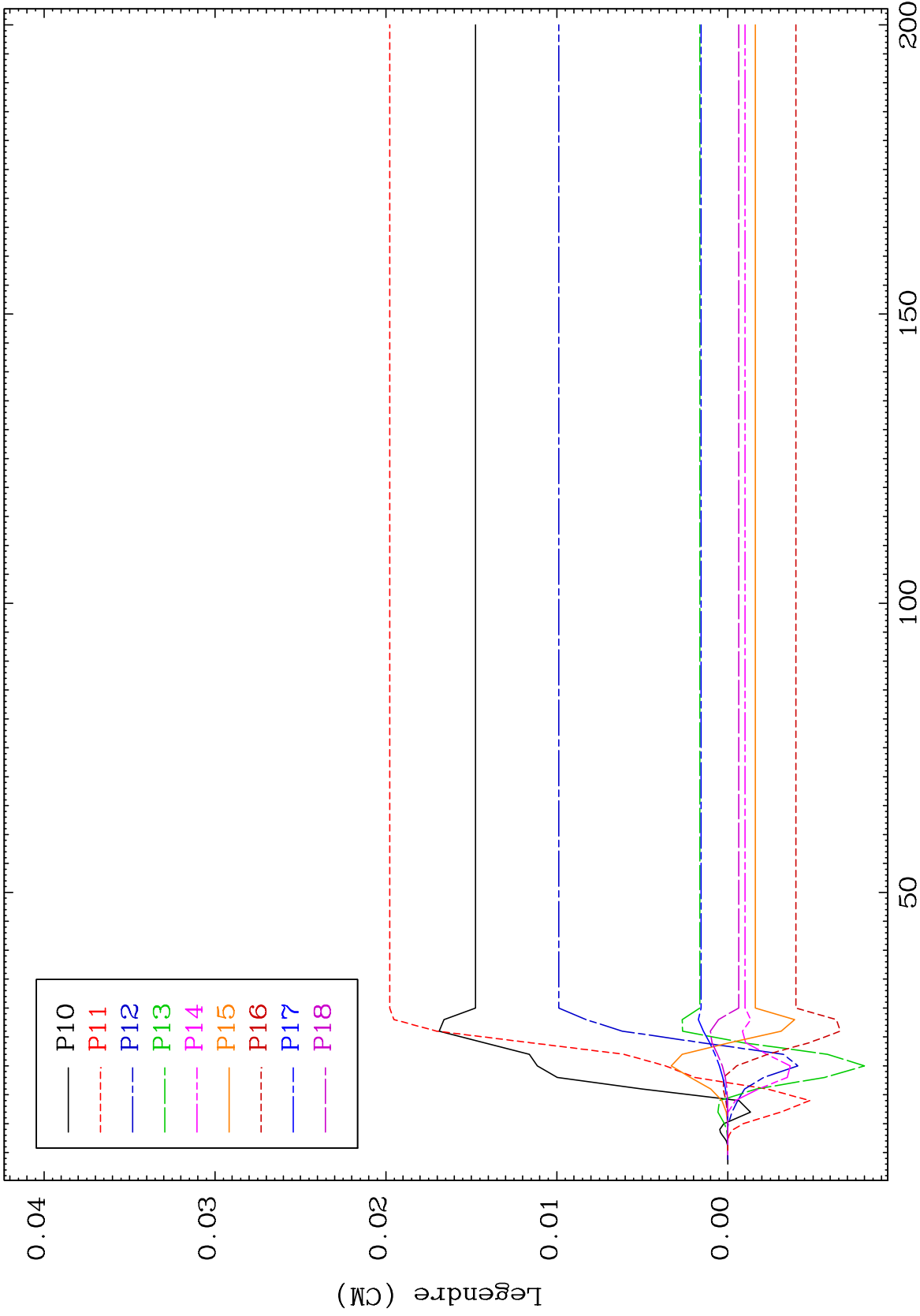


93 60-Nd-142

MAT 6025

MT= 70 (n,n') Level
Legendre Coefficients

60-Nd-142



94

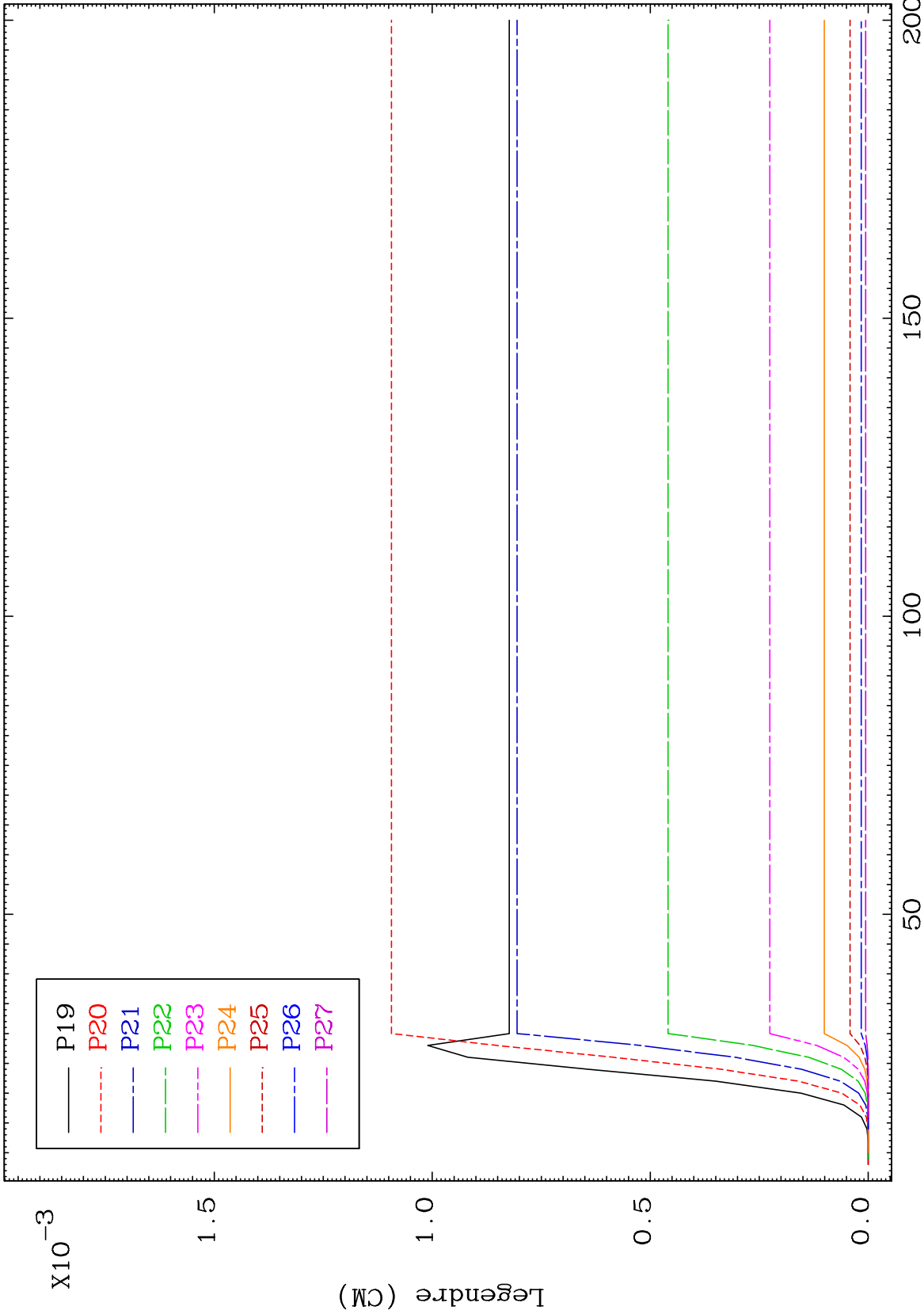
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 70 (n,n') Level
Legendre Coefficients

60-Nd-142



95

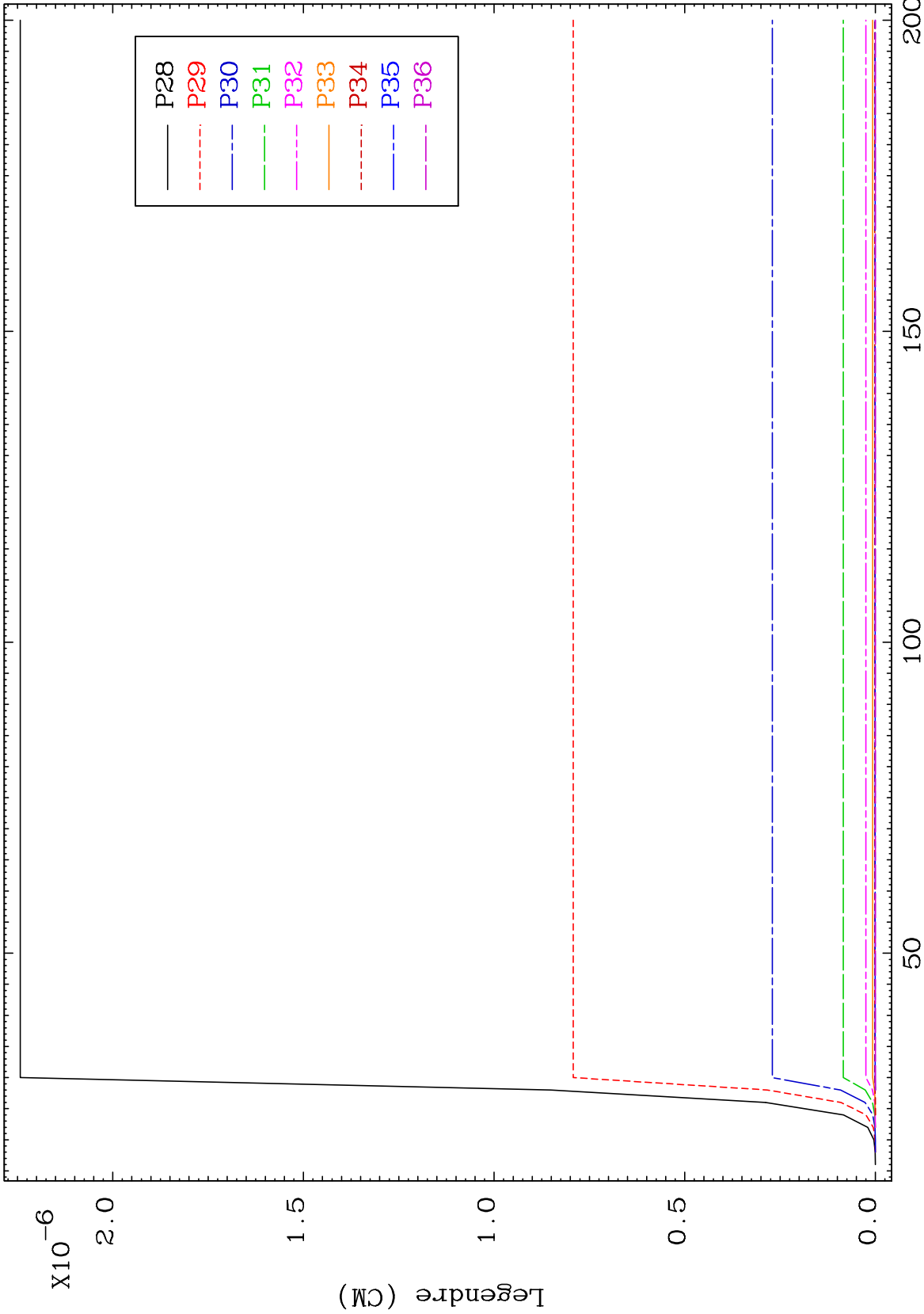
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 70 (n,n') Level
Legendre Coefficients

60-Nd-142

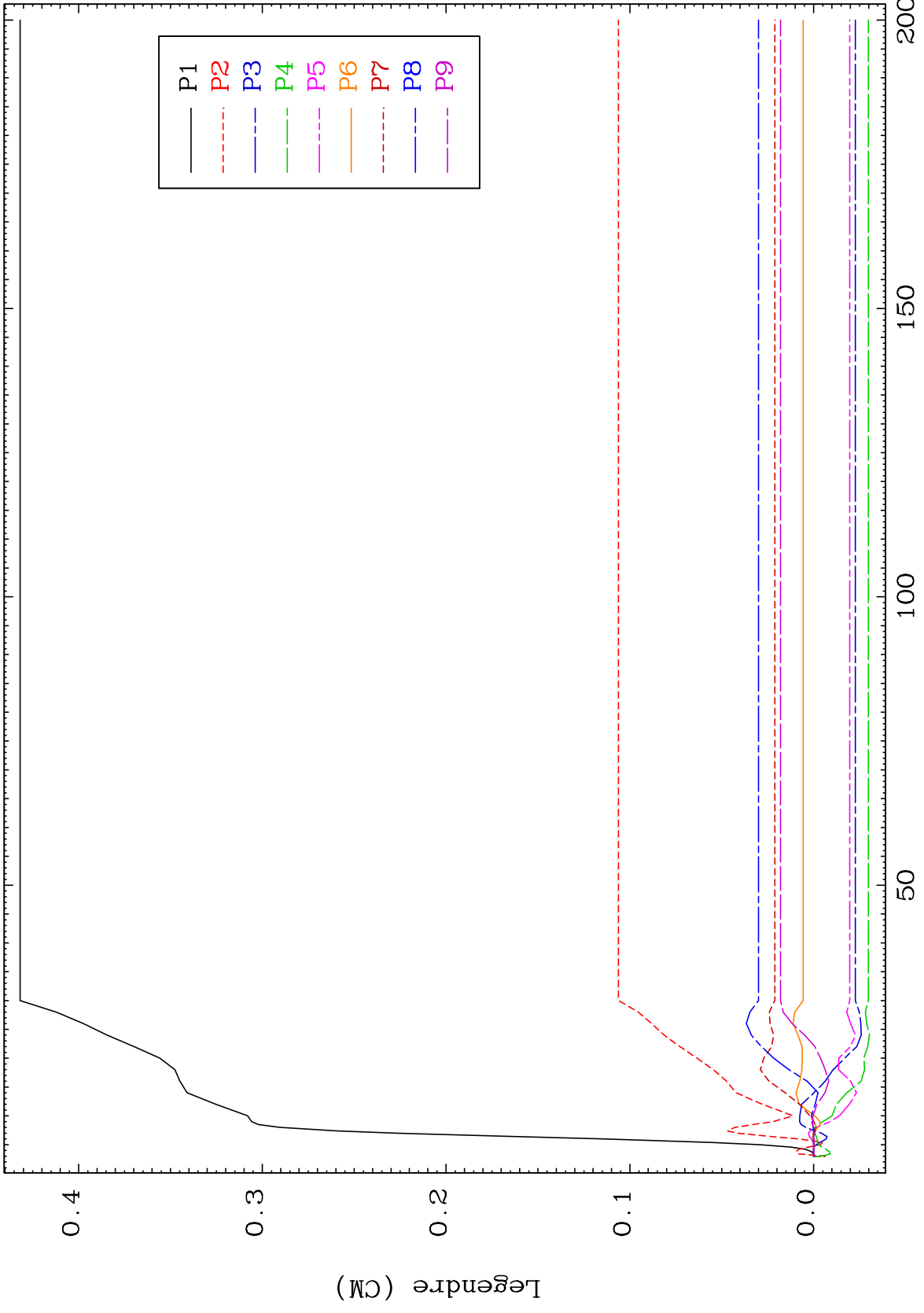


96

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 71 (n,n') Level Legendre Coefficients 60-Nd-142

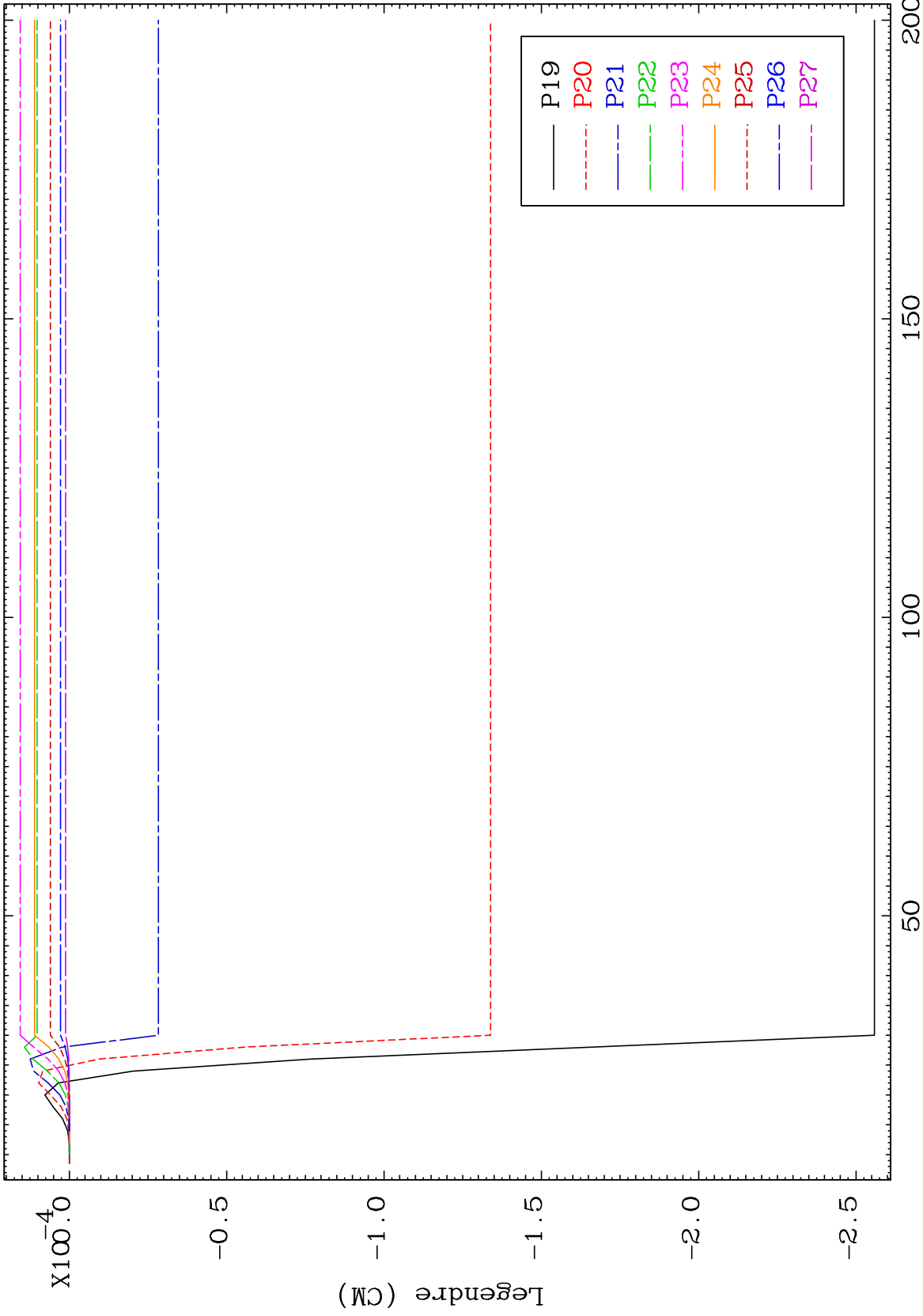


97 60-Nd-142

MAT 6025

MT= 71 (n,n') Level
Legendre Coefficients

60-Nd-142



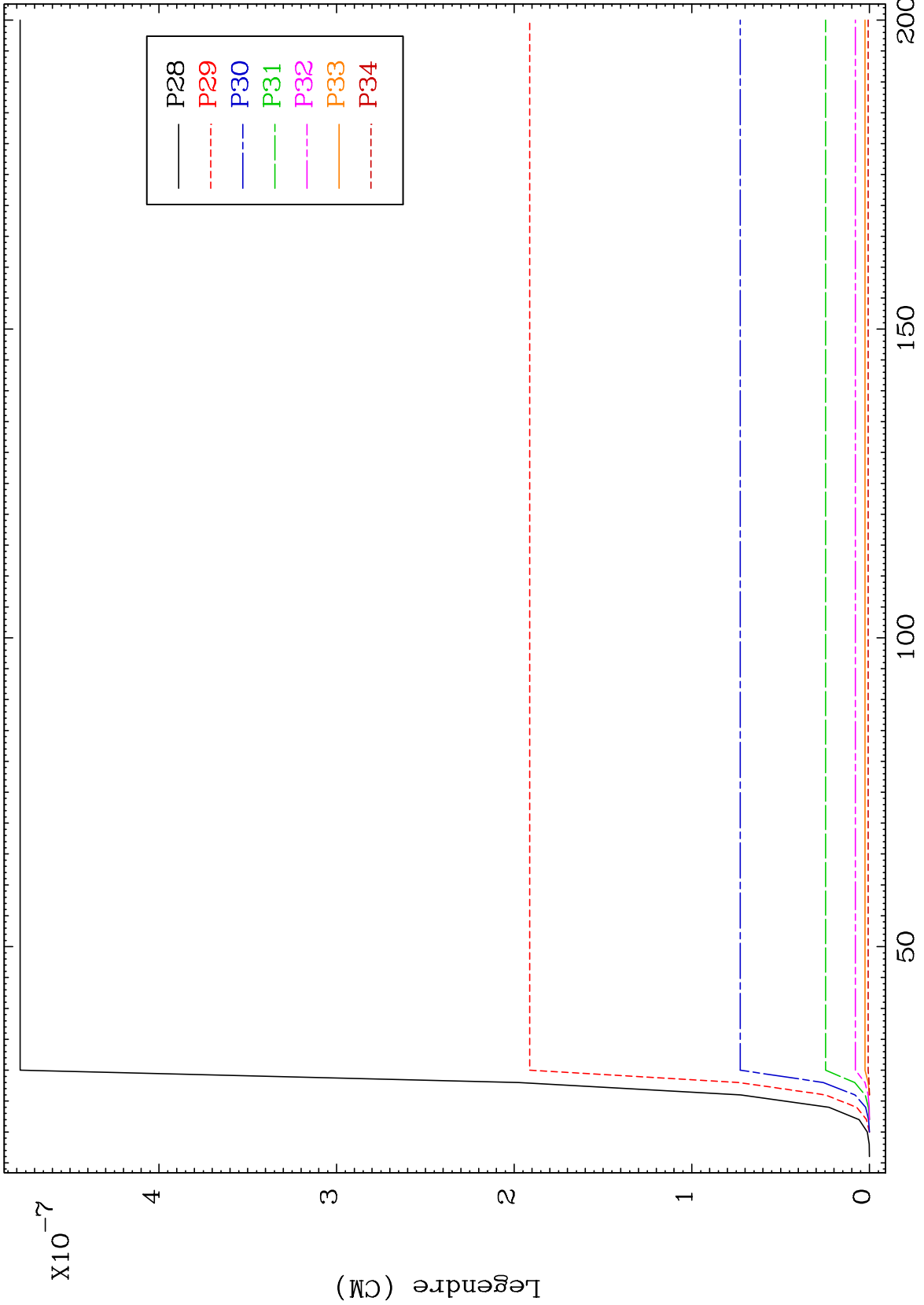
99

60-Nd-142

MAT 6025

MT= 71 (n,n') Level
Legendre Coefficients

60-Nd-142



100

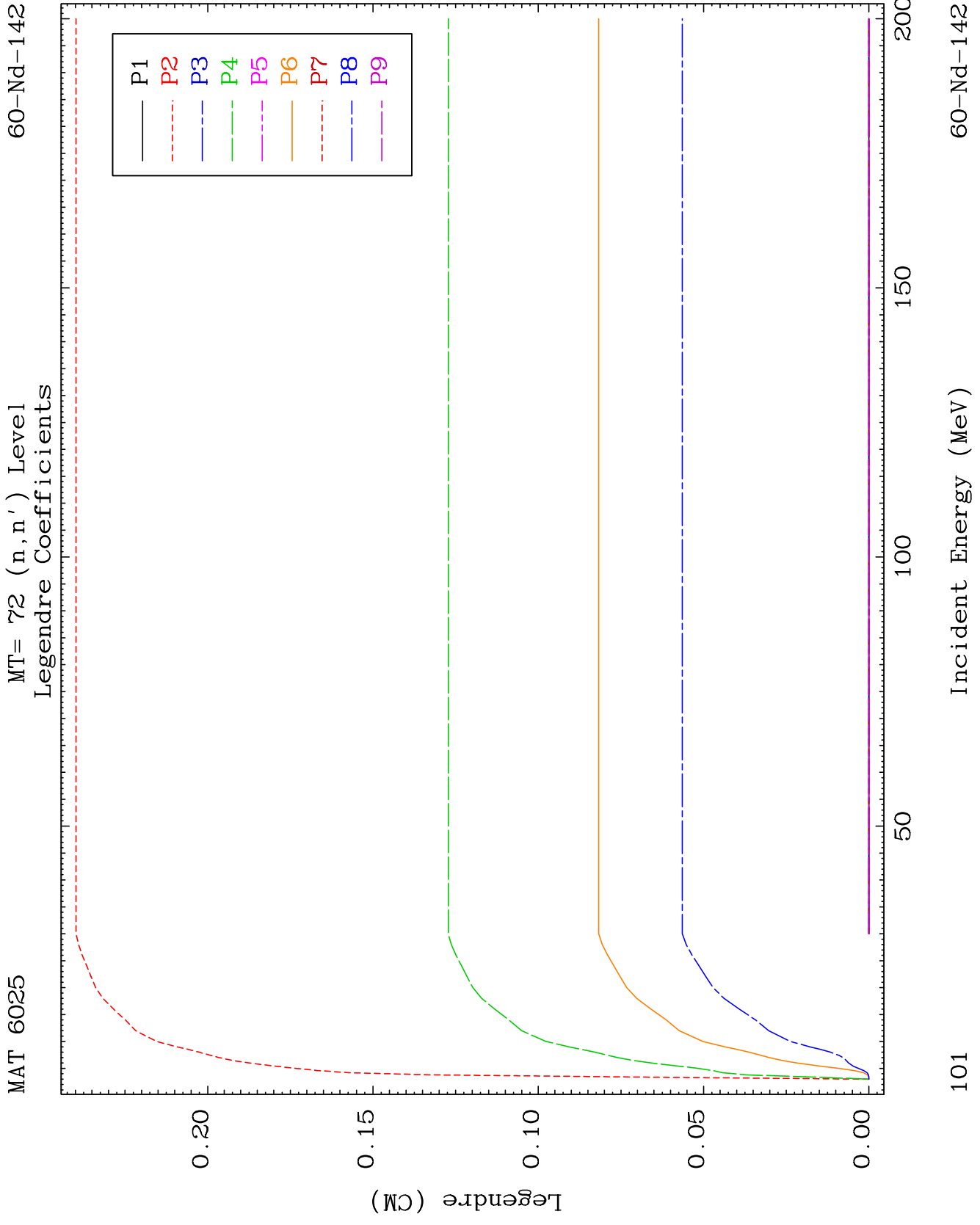
50

100

150

200

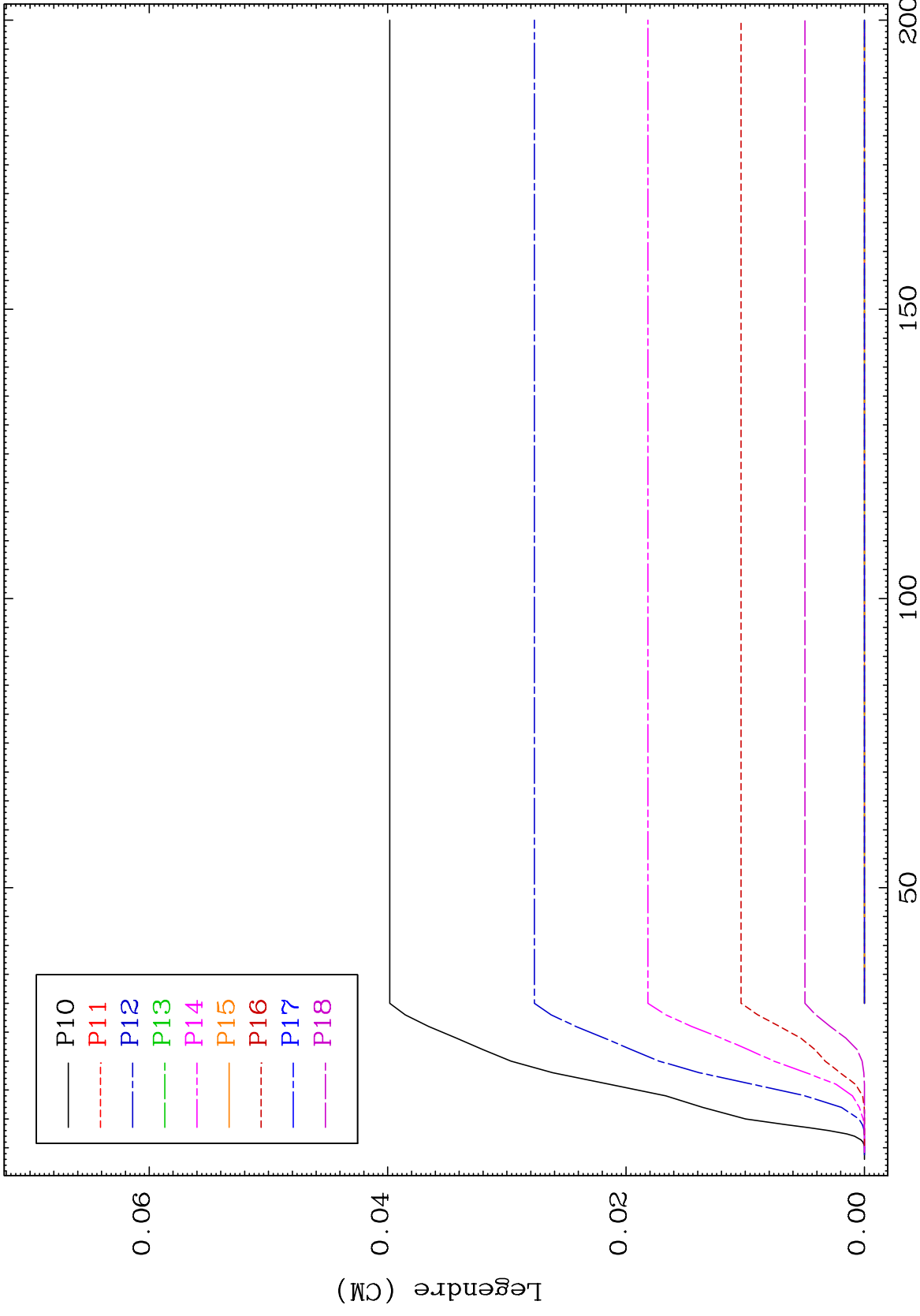
60-Nd-142



MAT 6025

MT= 72 (n,n') Level
Legendre Coefficients

60-Nd-142

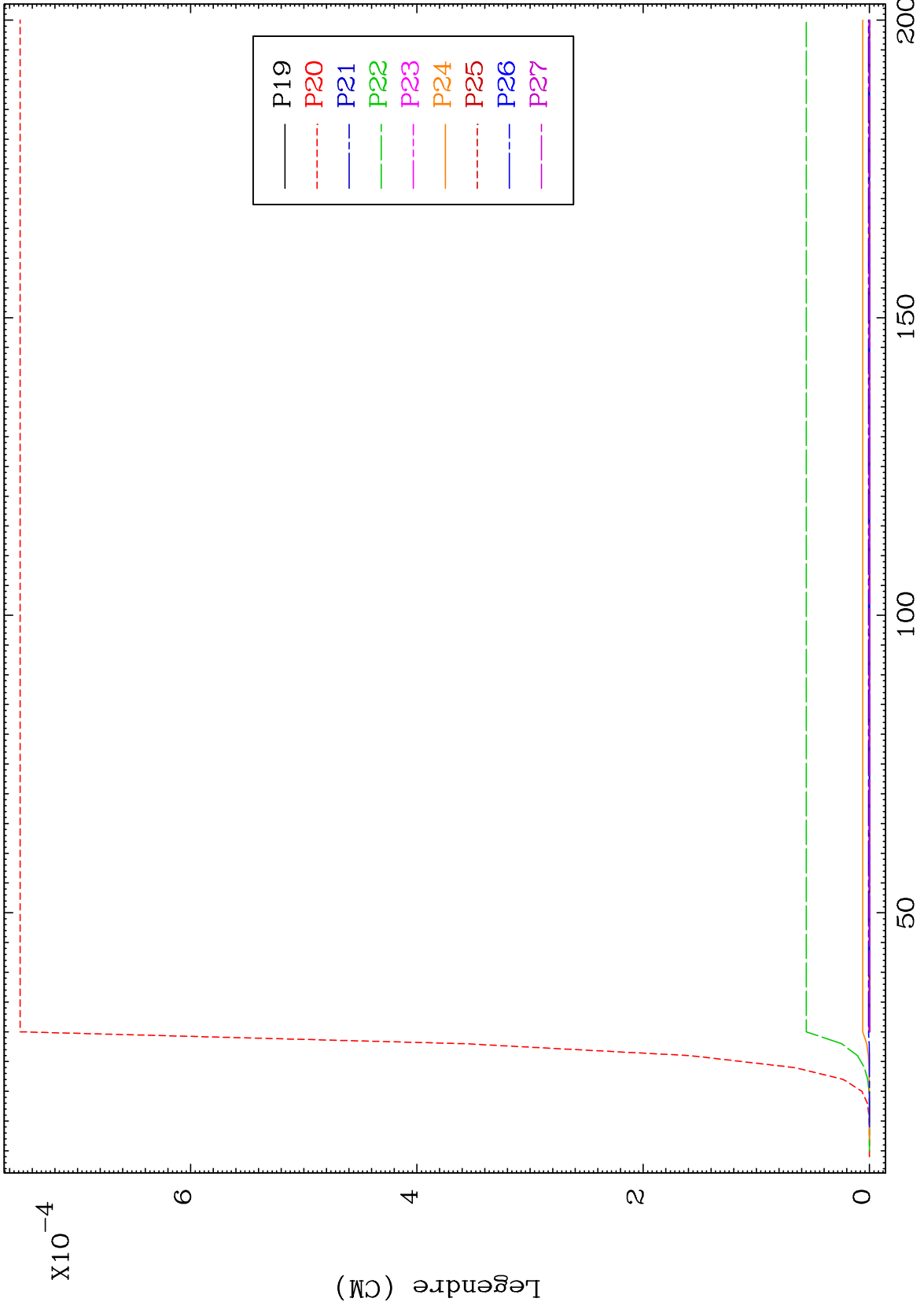


102

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 72 (n,n') Level Legendre Coefficients 60-Nd-142

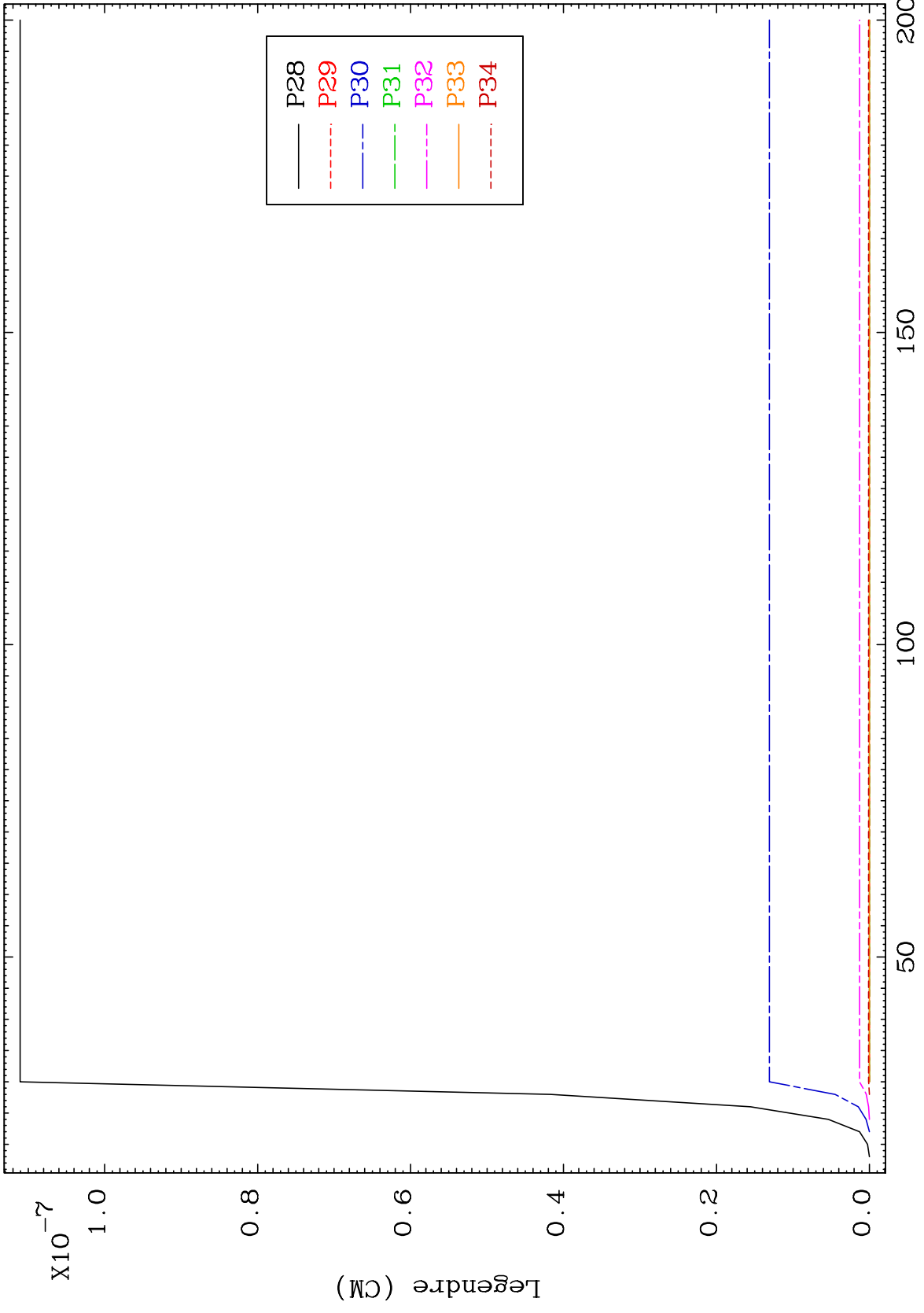


103 Incident Energy (MeV) 60-Nd-142

MAT 6025

MT= 72 (n,n') Level
Legendre Coefficients

60-Nd-142

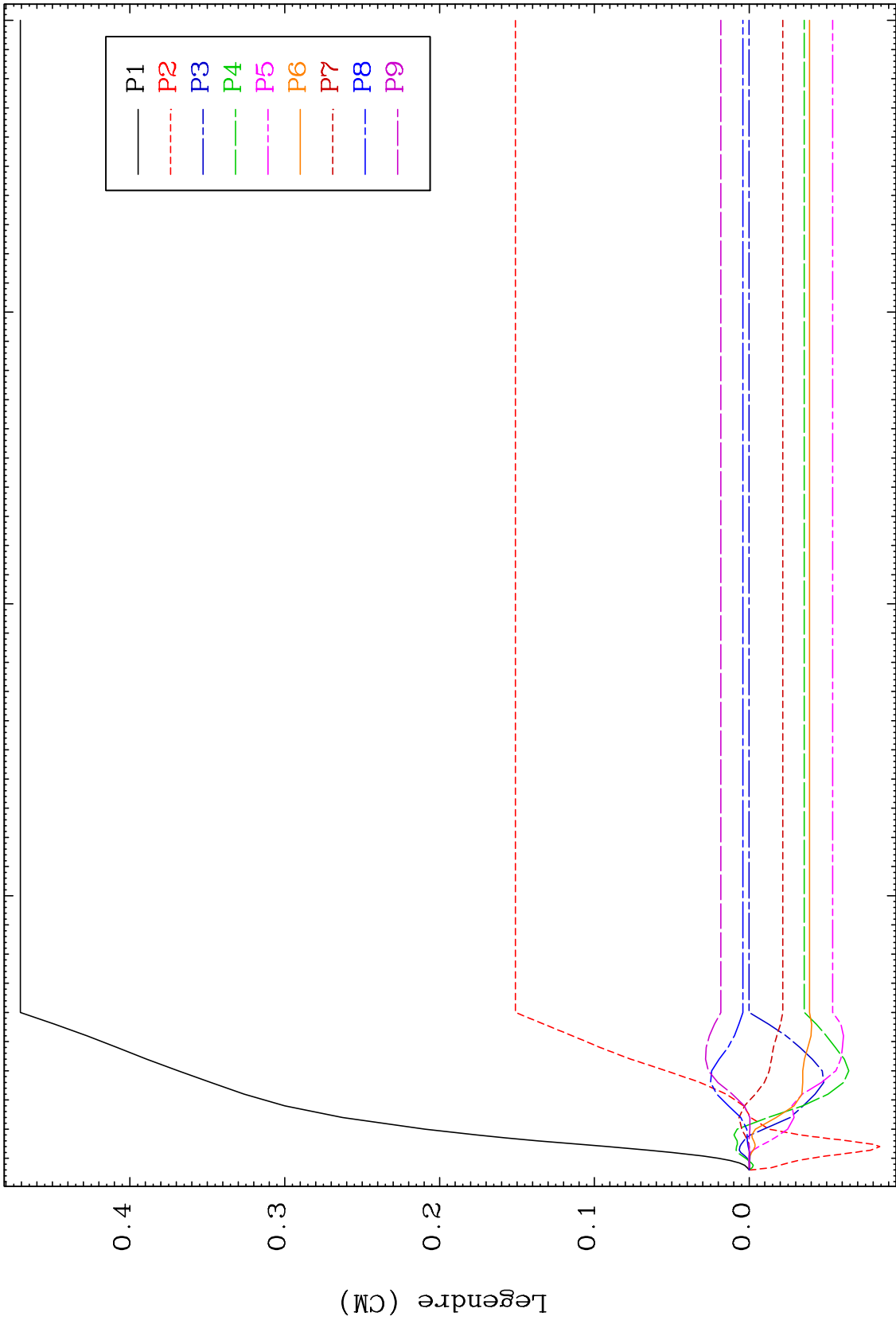


104

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 73 (n,n') Level Legendre Coefficients 60-Nd-142

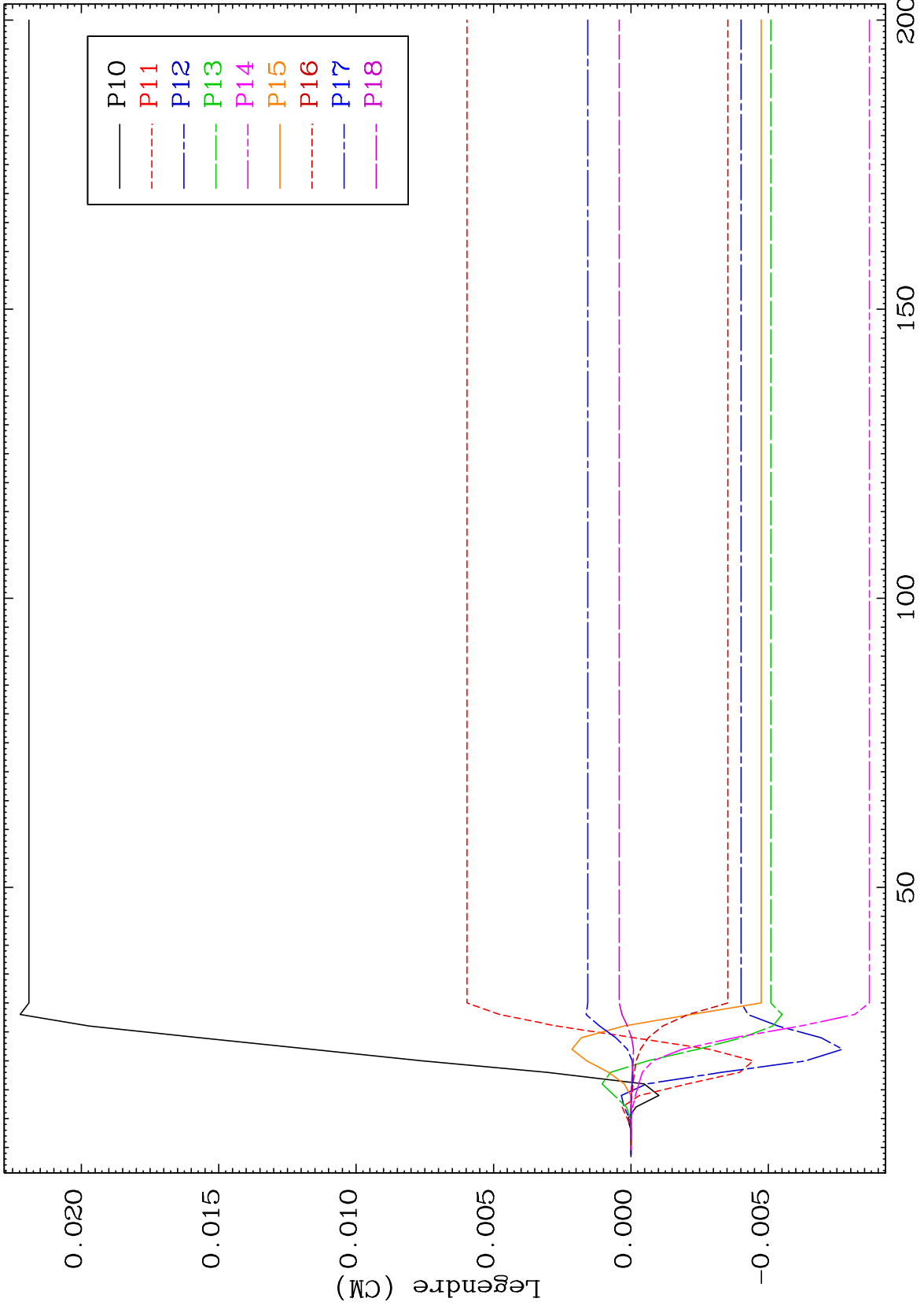


60-Nd-142

MAT 6025

MT= 73 (n,n') Level
Legendre Coefficients

60-Nd-142



106

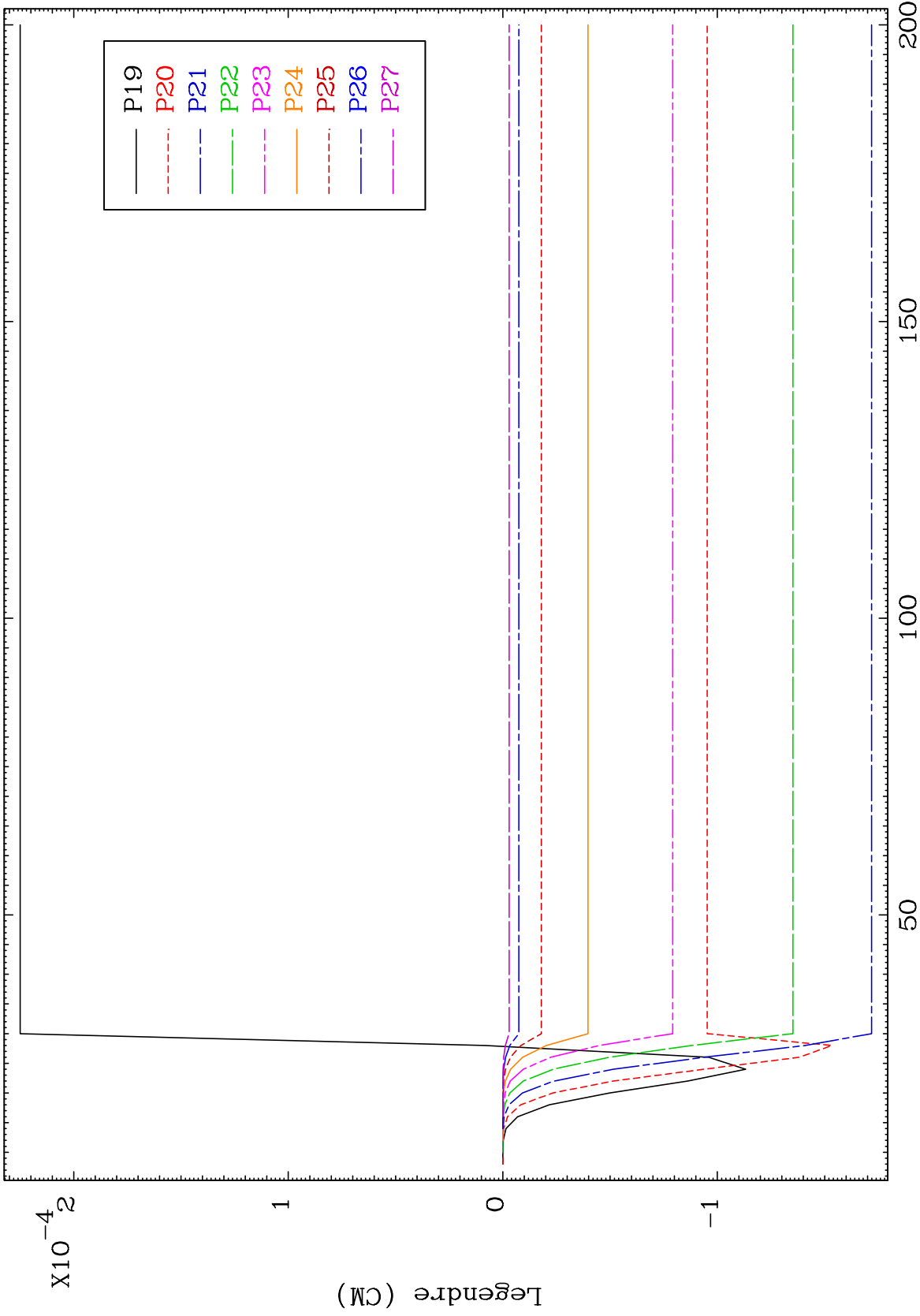
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 73 (n,n') Level
Legendre Coefficients

60-Nd-142



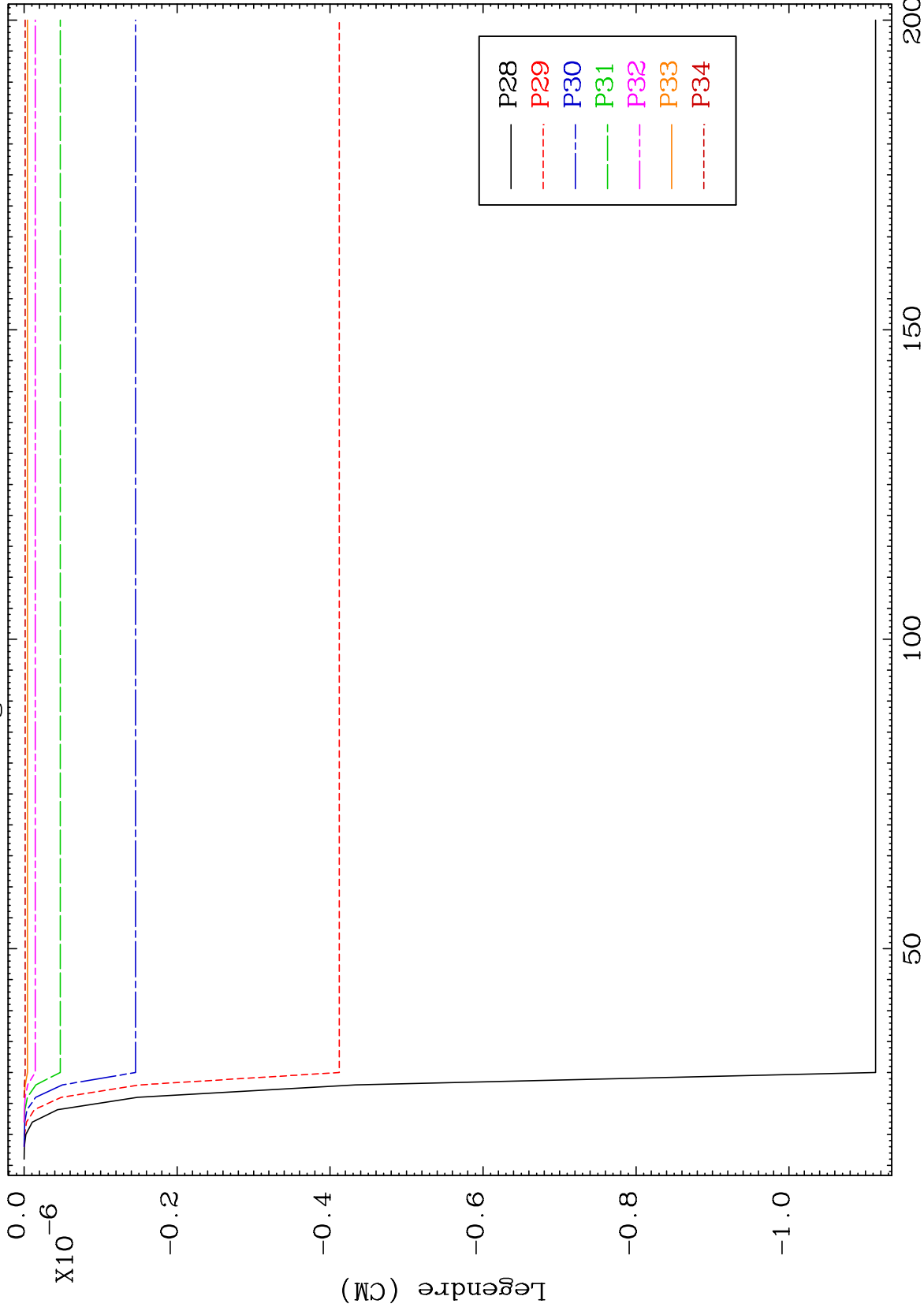
107

60-Nd-142

MAT 6025

MT= 73 (n,n') Level
Legendre Coefficients

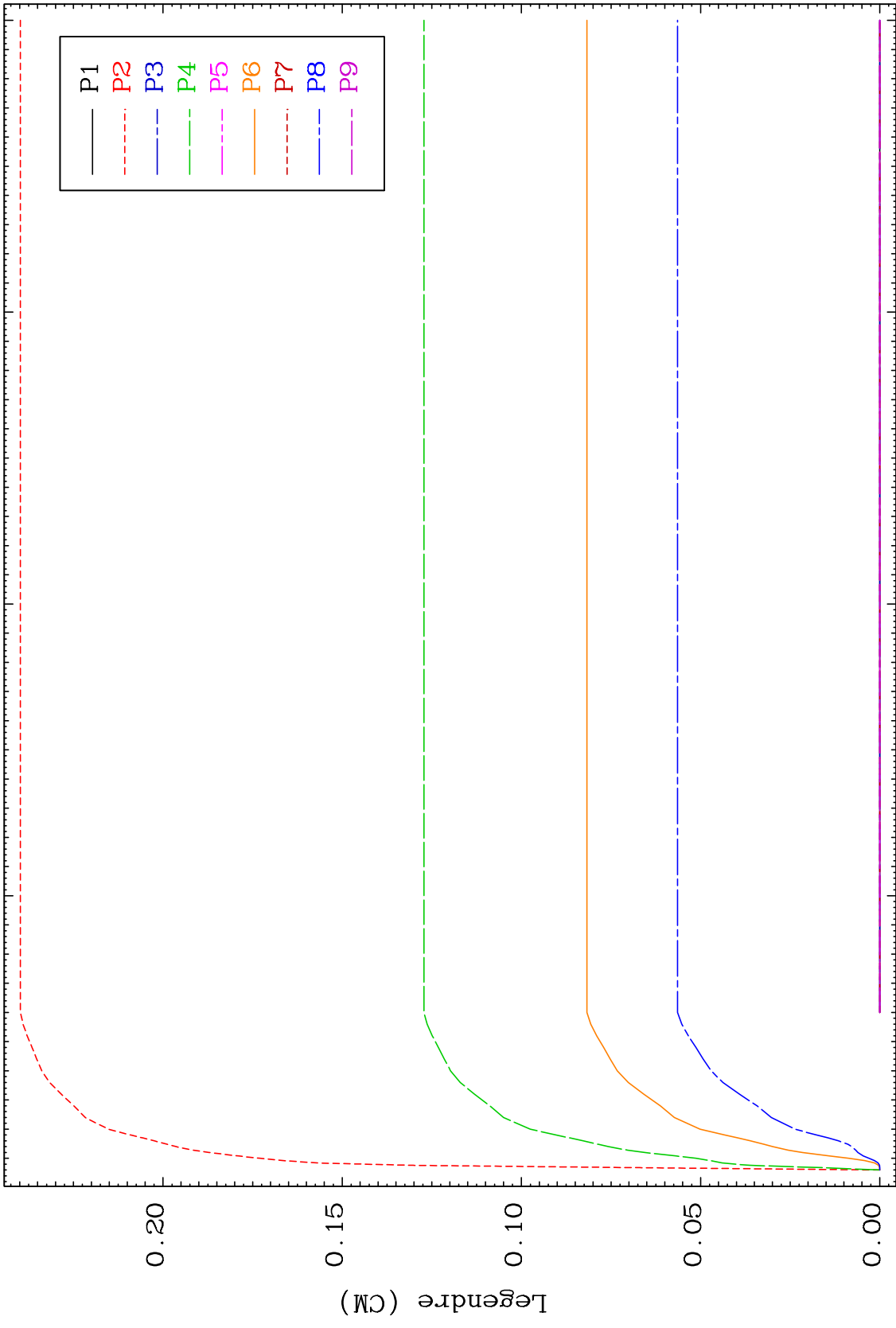
60-Nd-142



108

60-Nd-142

MAT 6025 MT= 74 (n,n') Level Legendre Coefficients 60-Nd-142

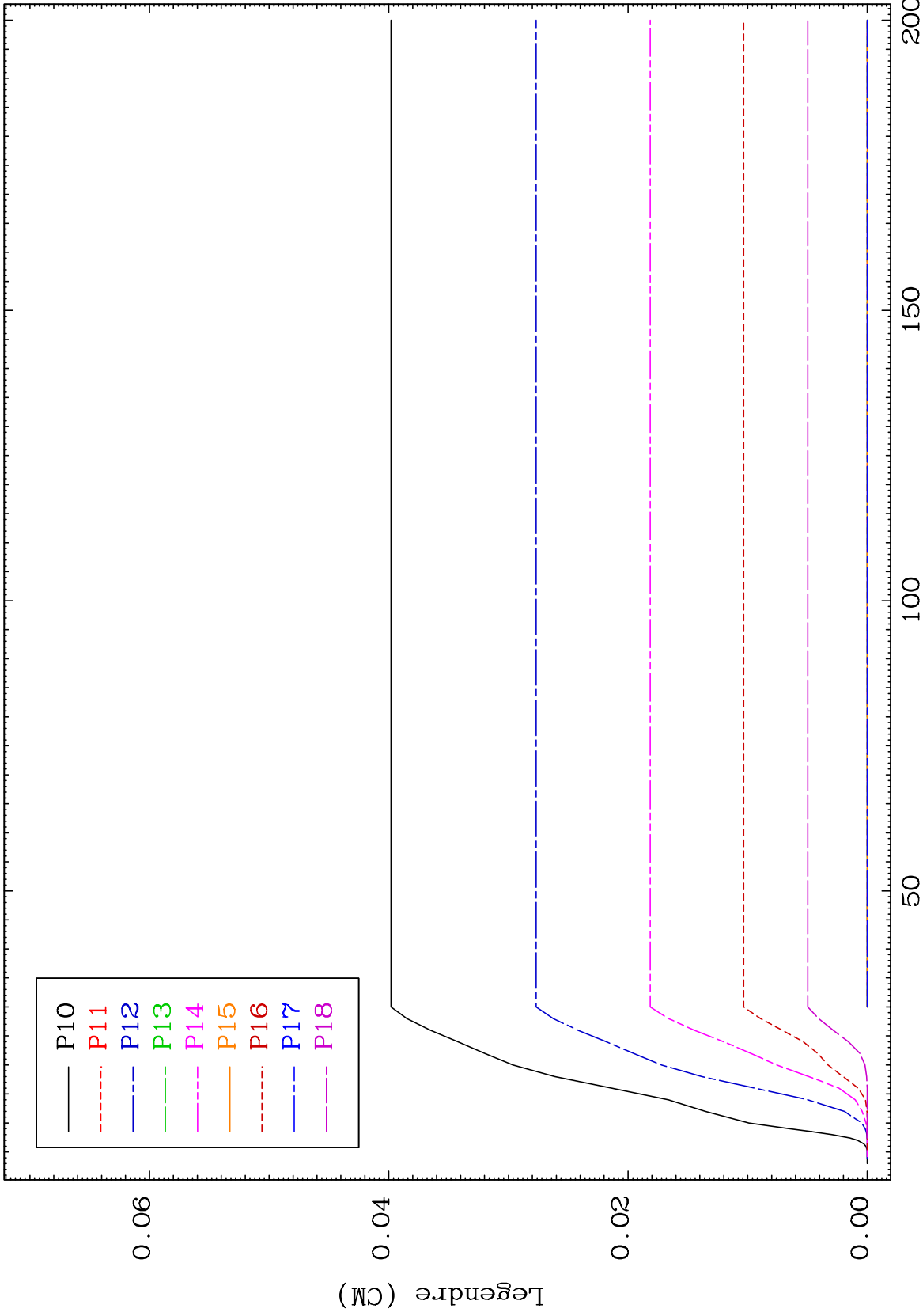


109 60-Nd-142

MAT 6025

MT= 74 (n,n') Level
Legendre Coefficients

60-Nd-142

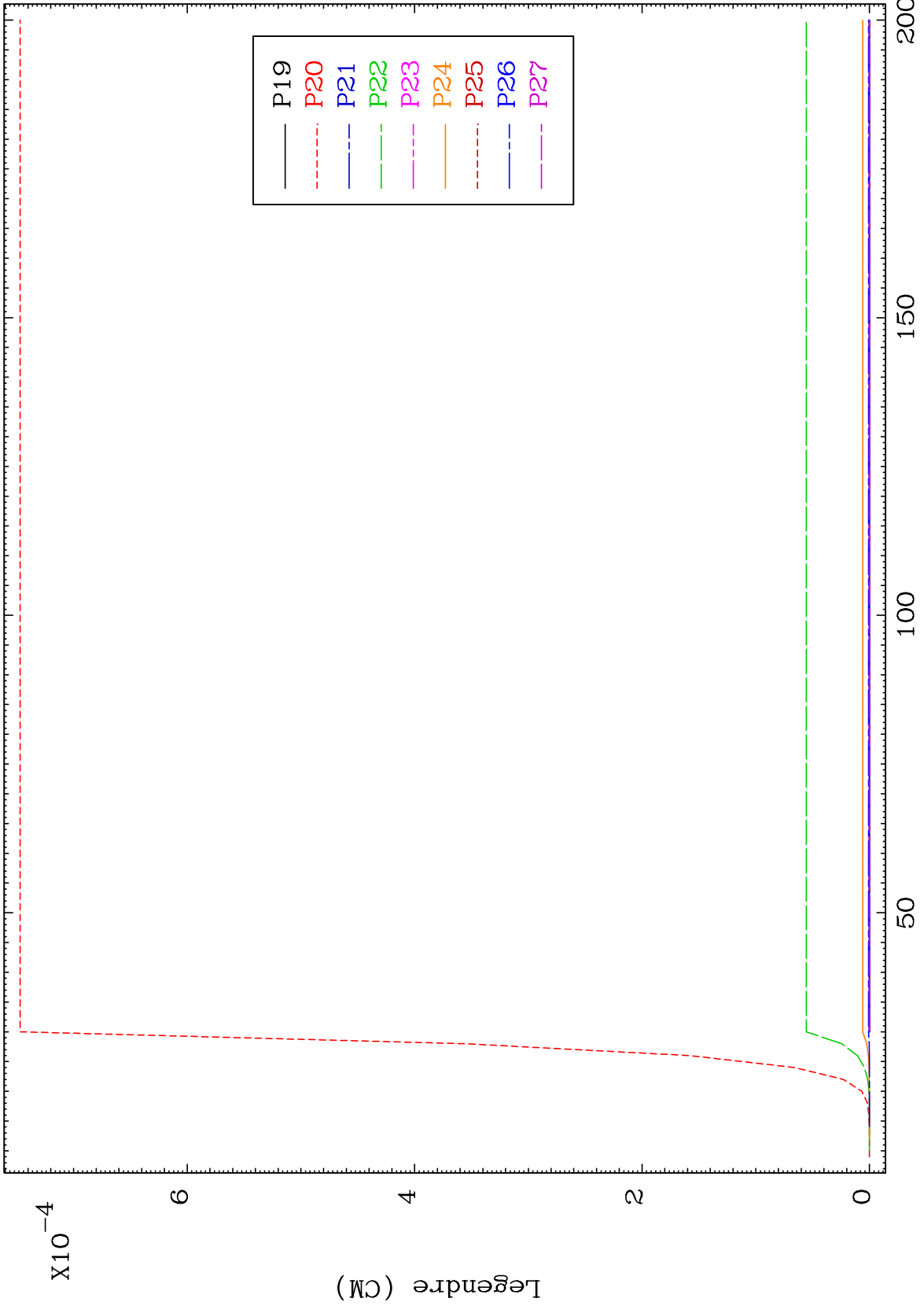


110

Incident Energy (MeV)

60-Nd-142

MAT 6025 MT= 74 (n,n') Level Legendre Coefficients 60-Nd-142

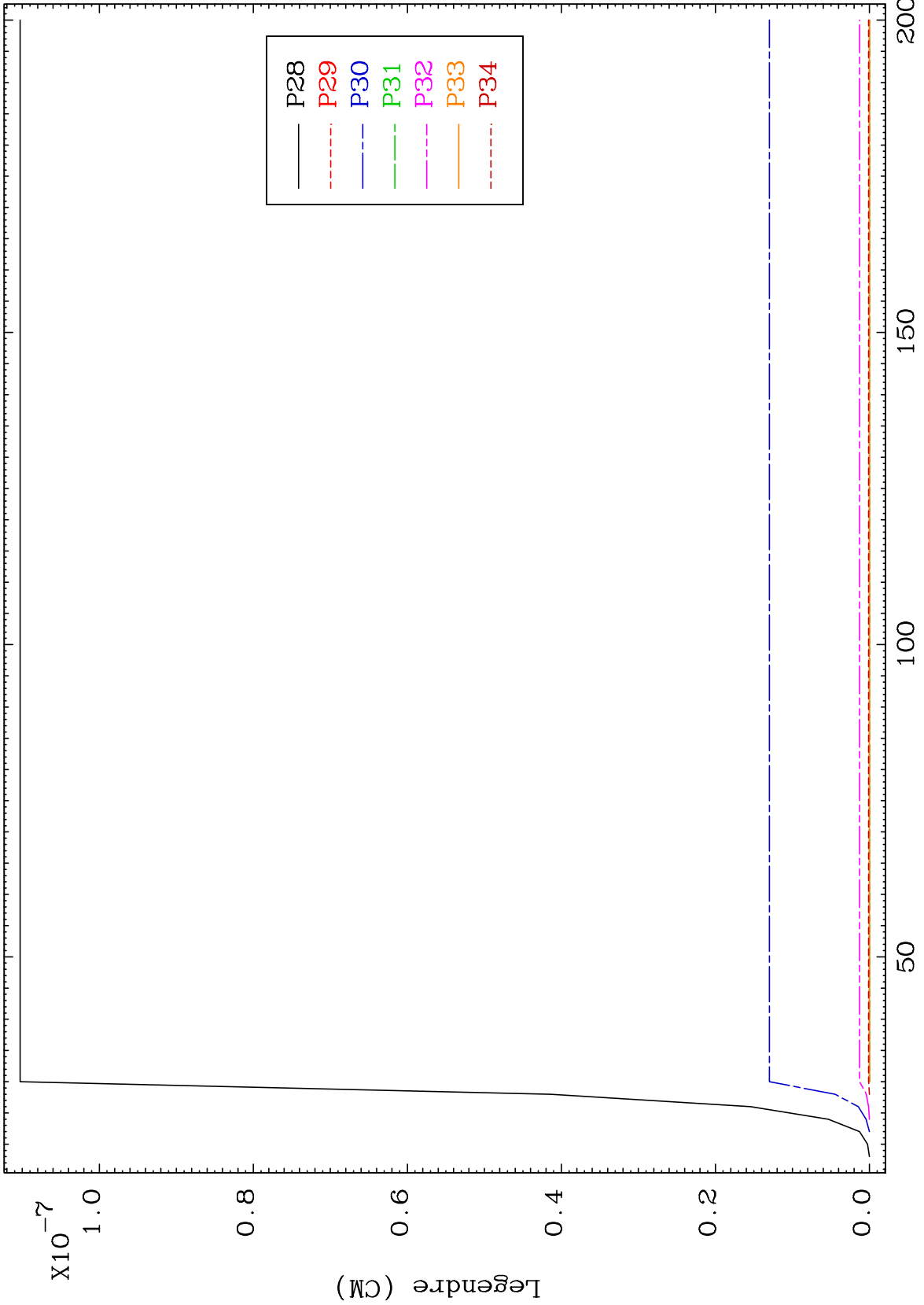


111 Incident Energy (MeV) 60-Nd-142

MAT 6025

MT= 74 (n,n') Level
Legendre Coefficients

60-Nd-142



112

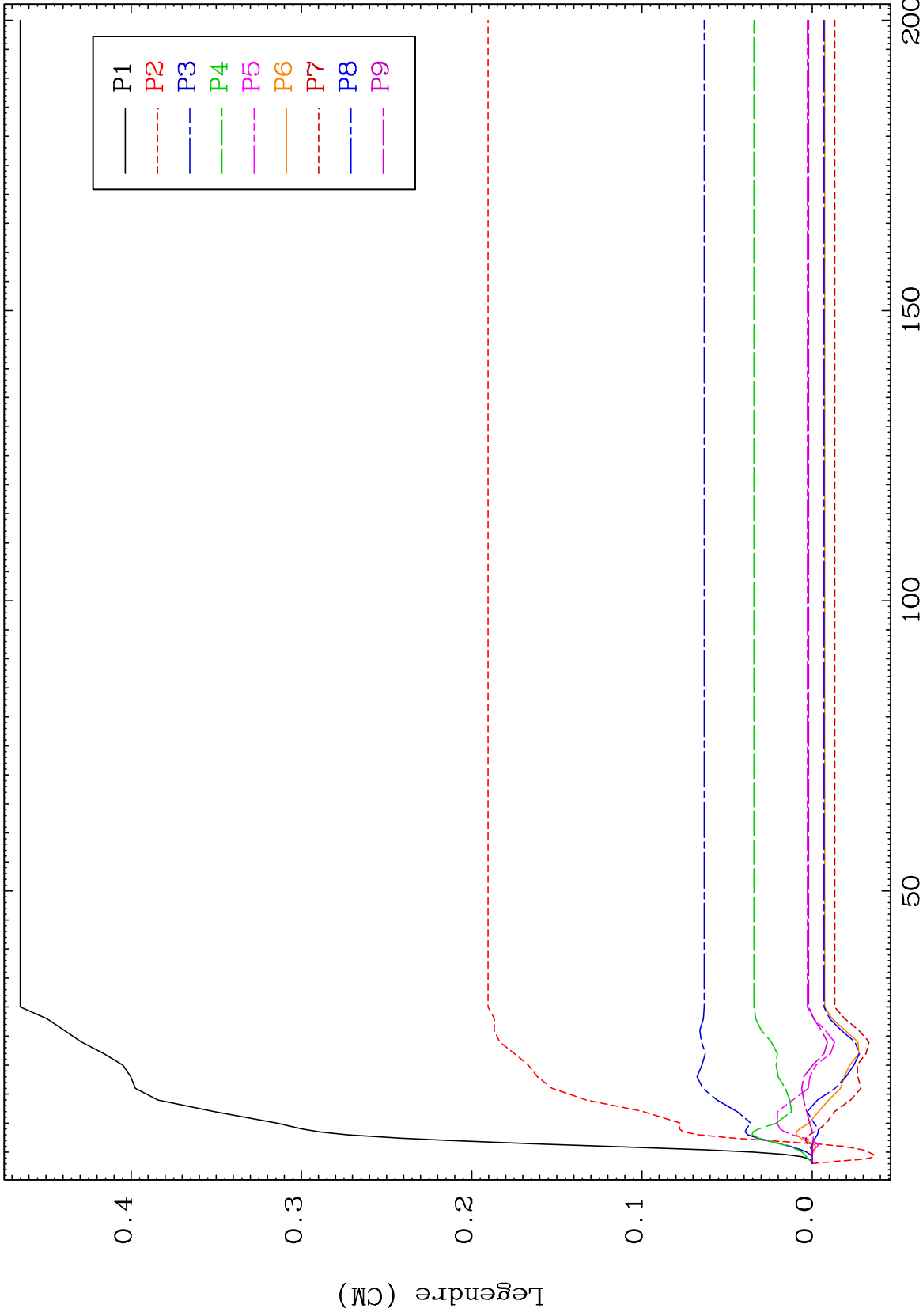
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 75 (n,n') Level
Legendre Coefficients

60-Nd-142



113

Incident Energy (MeV)

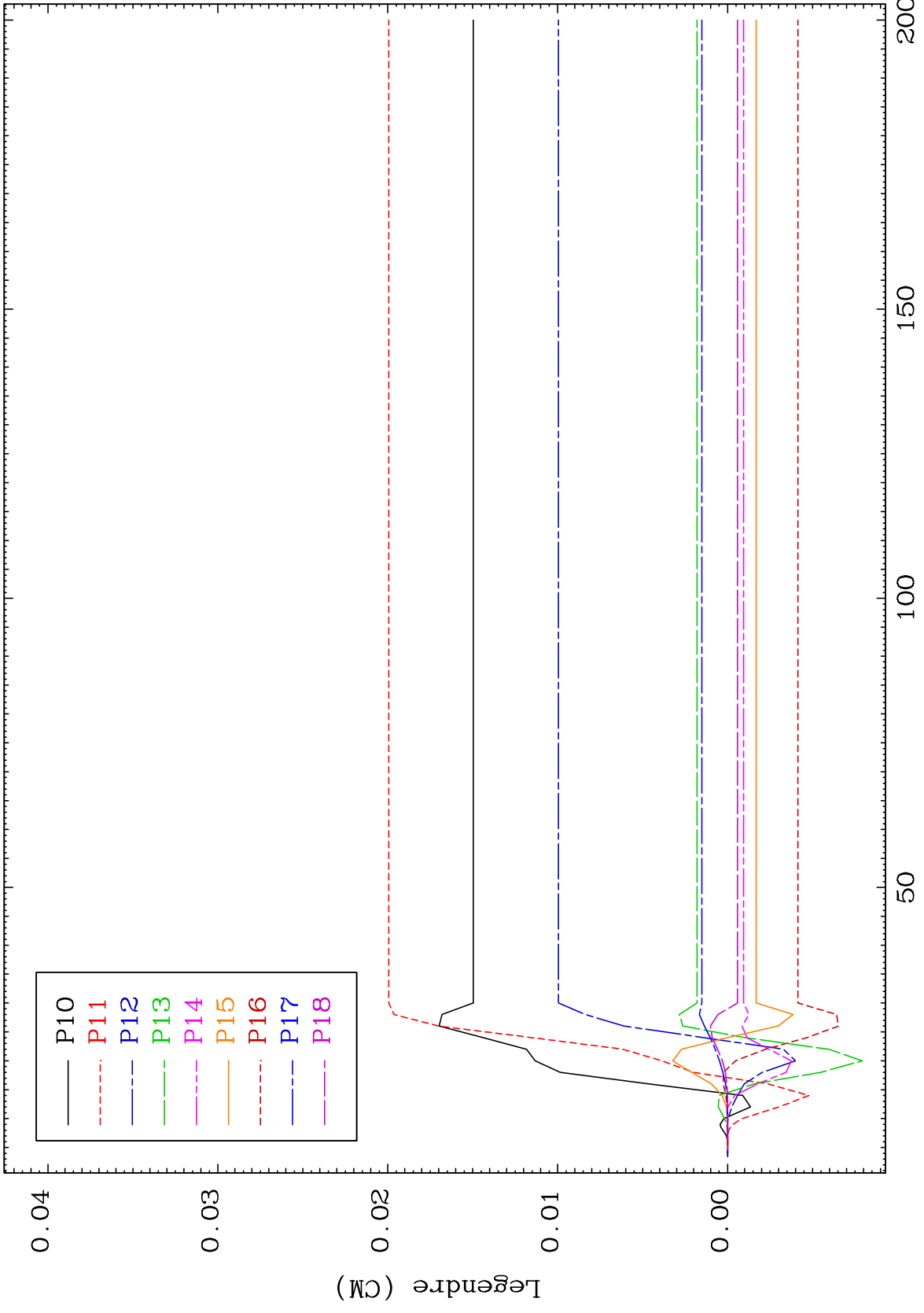
60-Nd-142

MAT 6025 MT= 75 (n,n') Level Legendre Coefficients

60-Nd-142

60-Nd-142

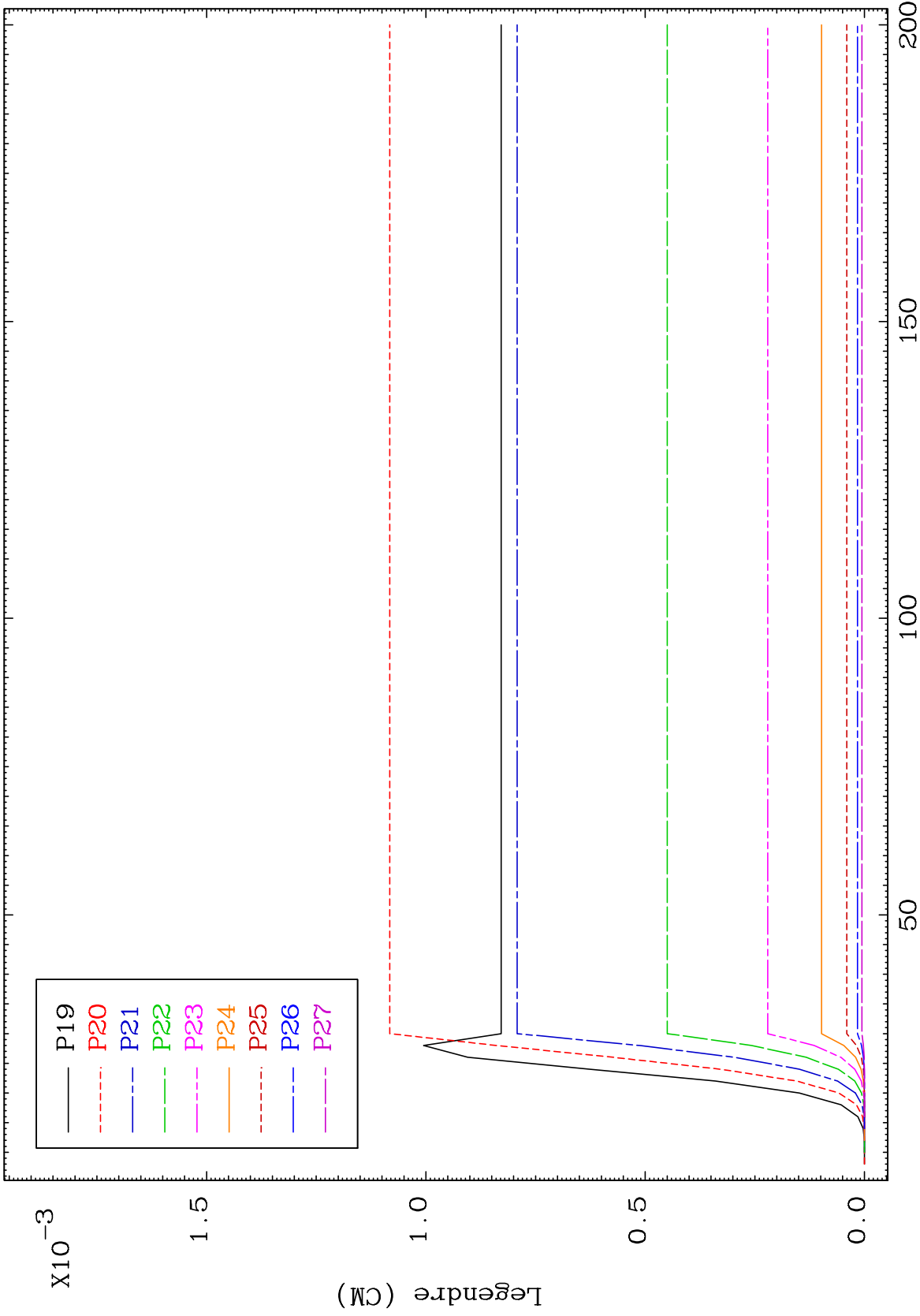
114



MAT 6025

MT= 75 (n,n') Level
Legendre Coefficients

60-Nd-142



115

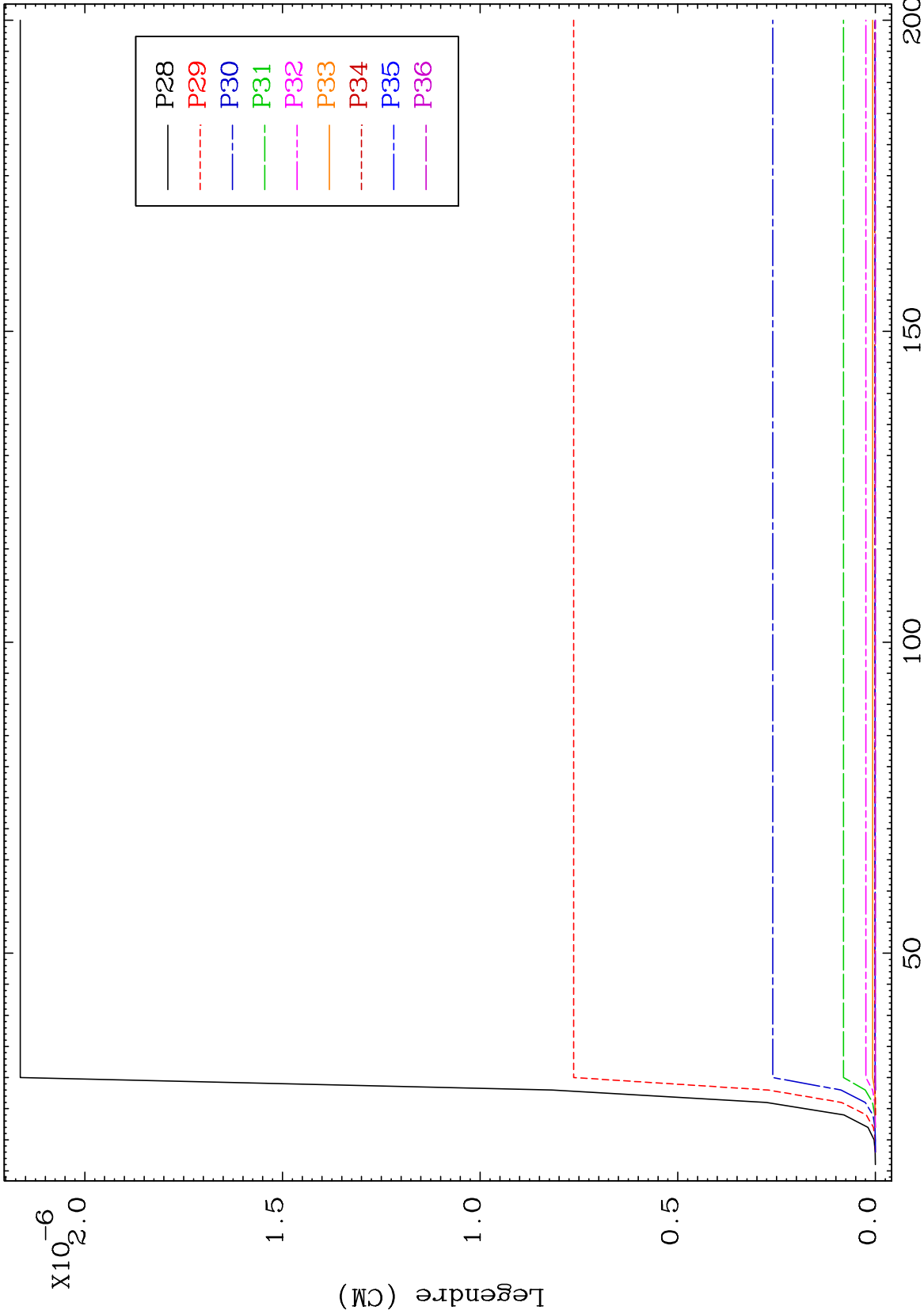
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 75 (n,n') Level
Legendre Coefficients

60-Nd-142

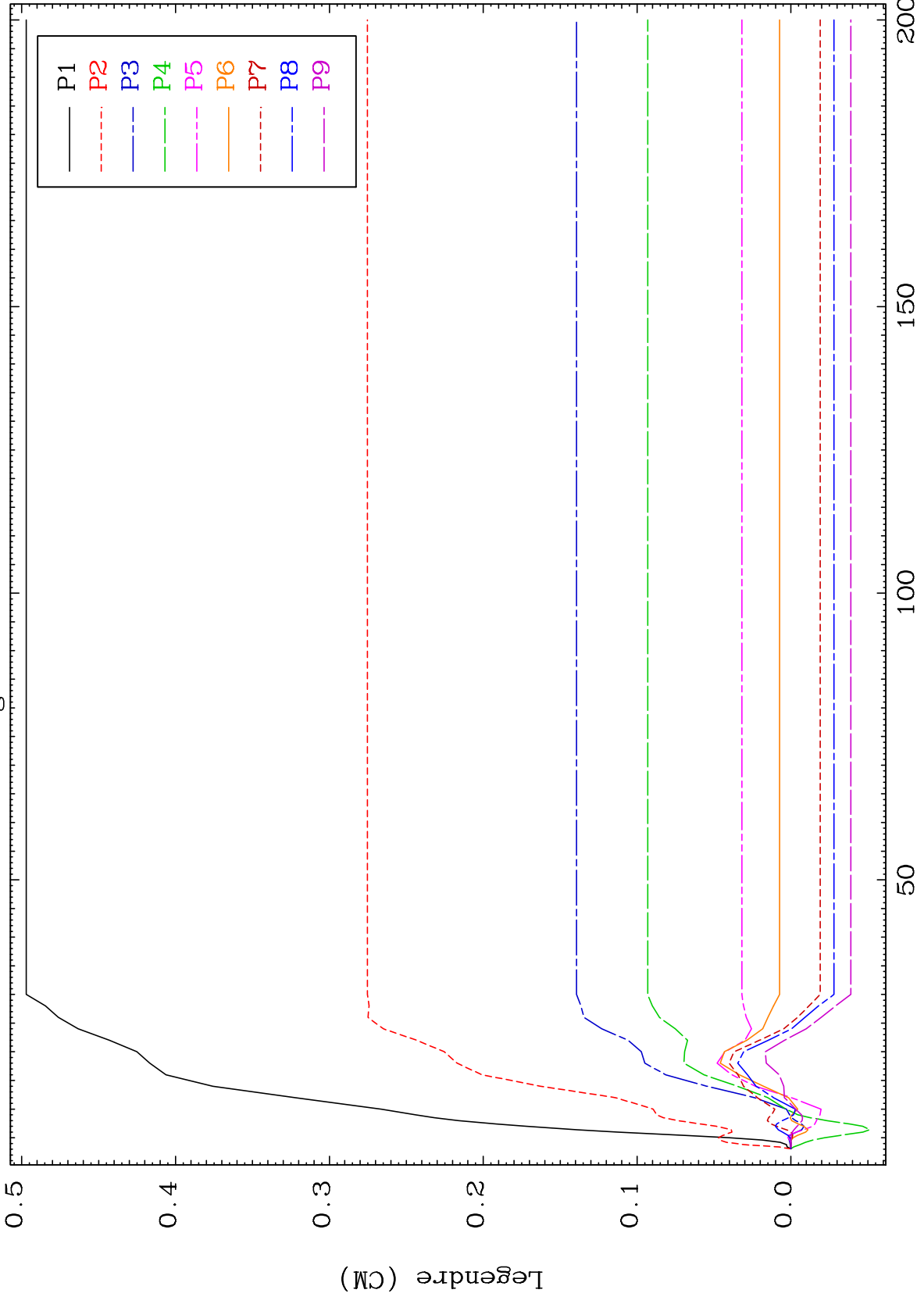


116

Incident Energy (MeV)

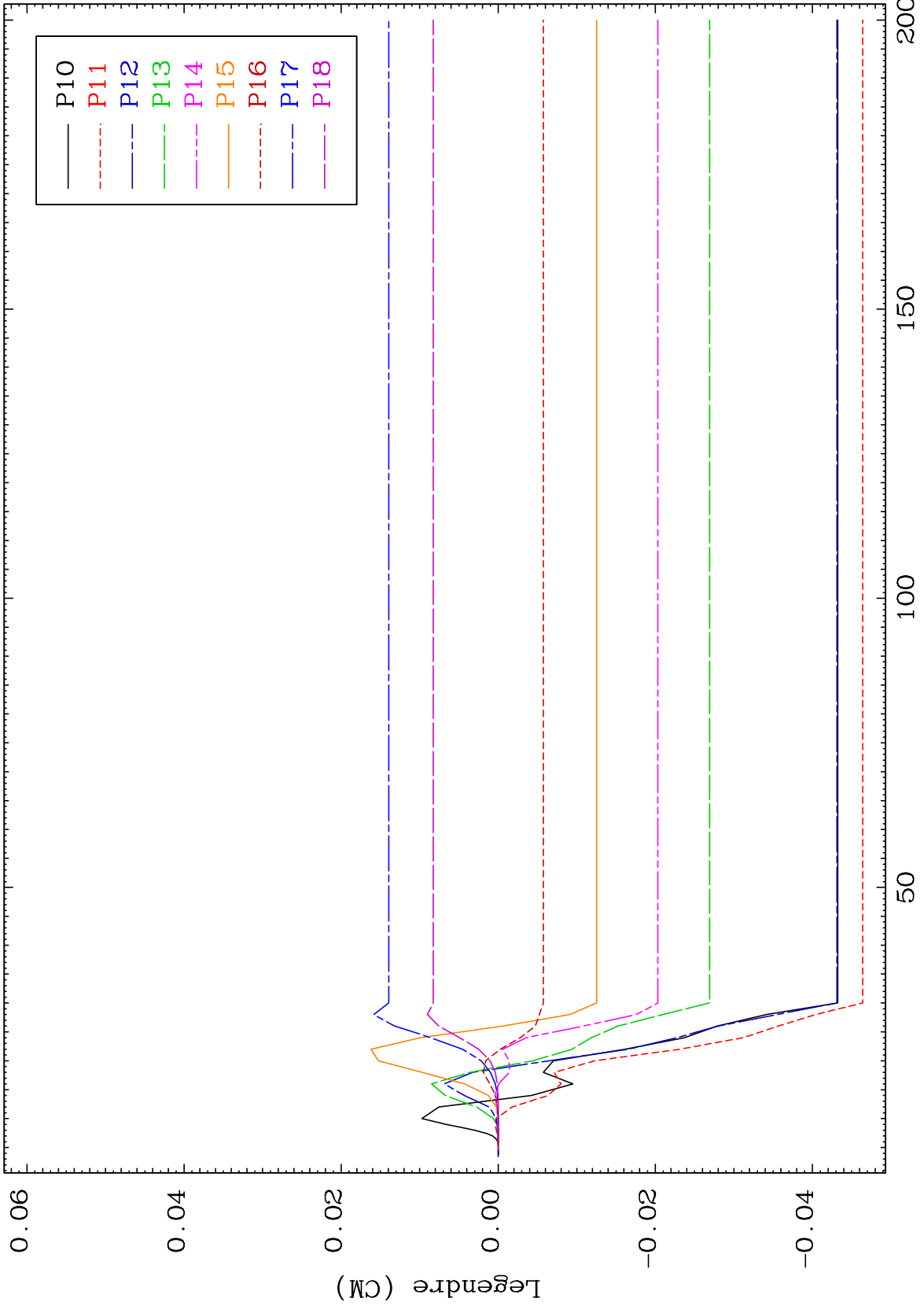
60-Nd-142

MAT 6025 MT= 76 (n,n') Level Legendre Coefficients 60-Nd-142



117 60-Nd-142

MAT 6025 MT= 76 (n,n') Level Legendre Coefficients 60-Nd-142

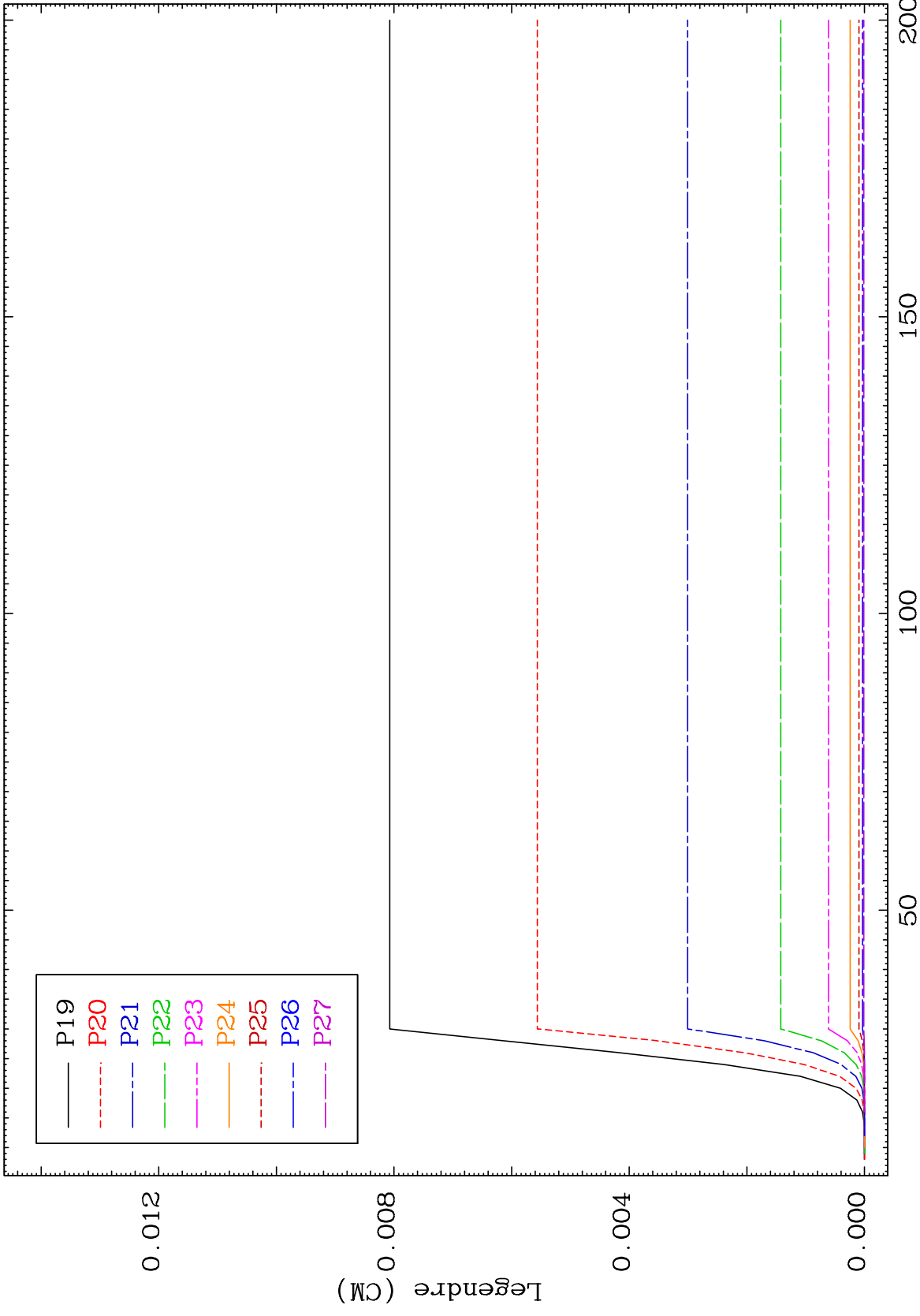


118 60-Nd-142

MAT 6025

MT= 76 (n,n') Level
Legendre Coefficients

60-Nd-142



119

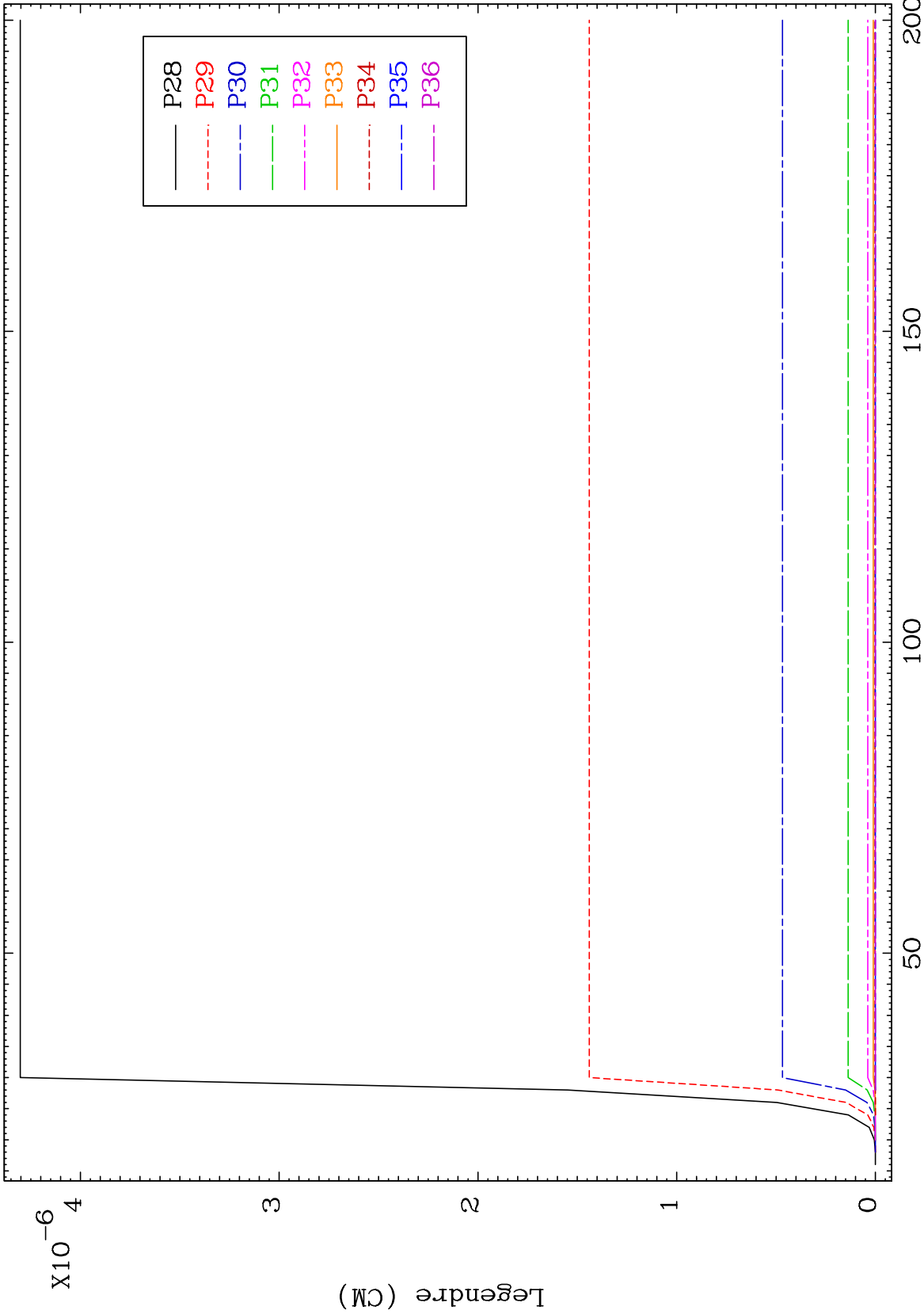
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 76 (n,n') Level
Legendre Coefficients

60-Nd-142



120

50

100

150

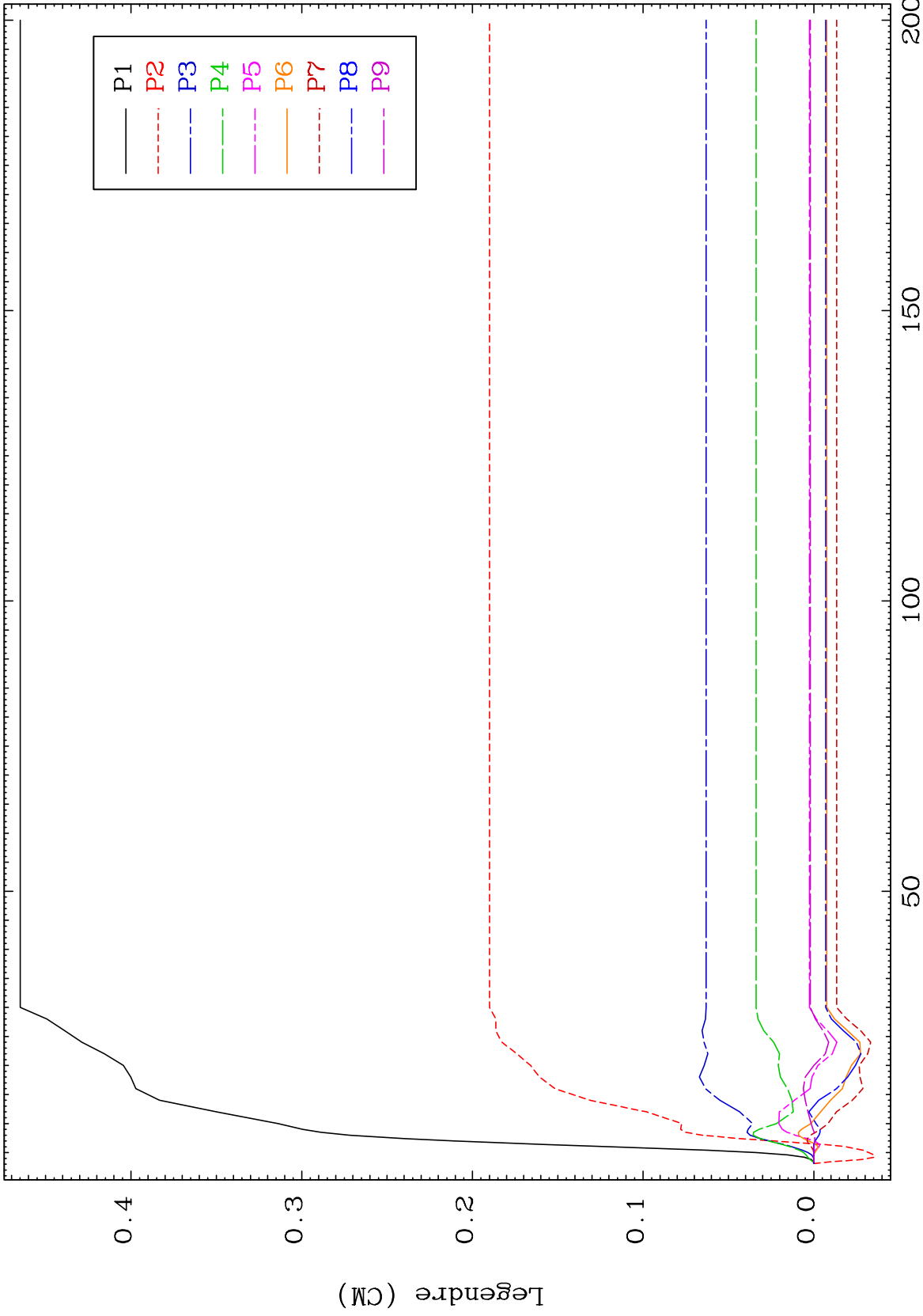
200

60-Nd-142

MAT 6025

MT= 77 (n,n') Level
Legendre Coefficients

60-Nd-142



121

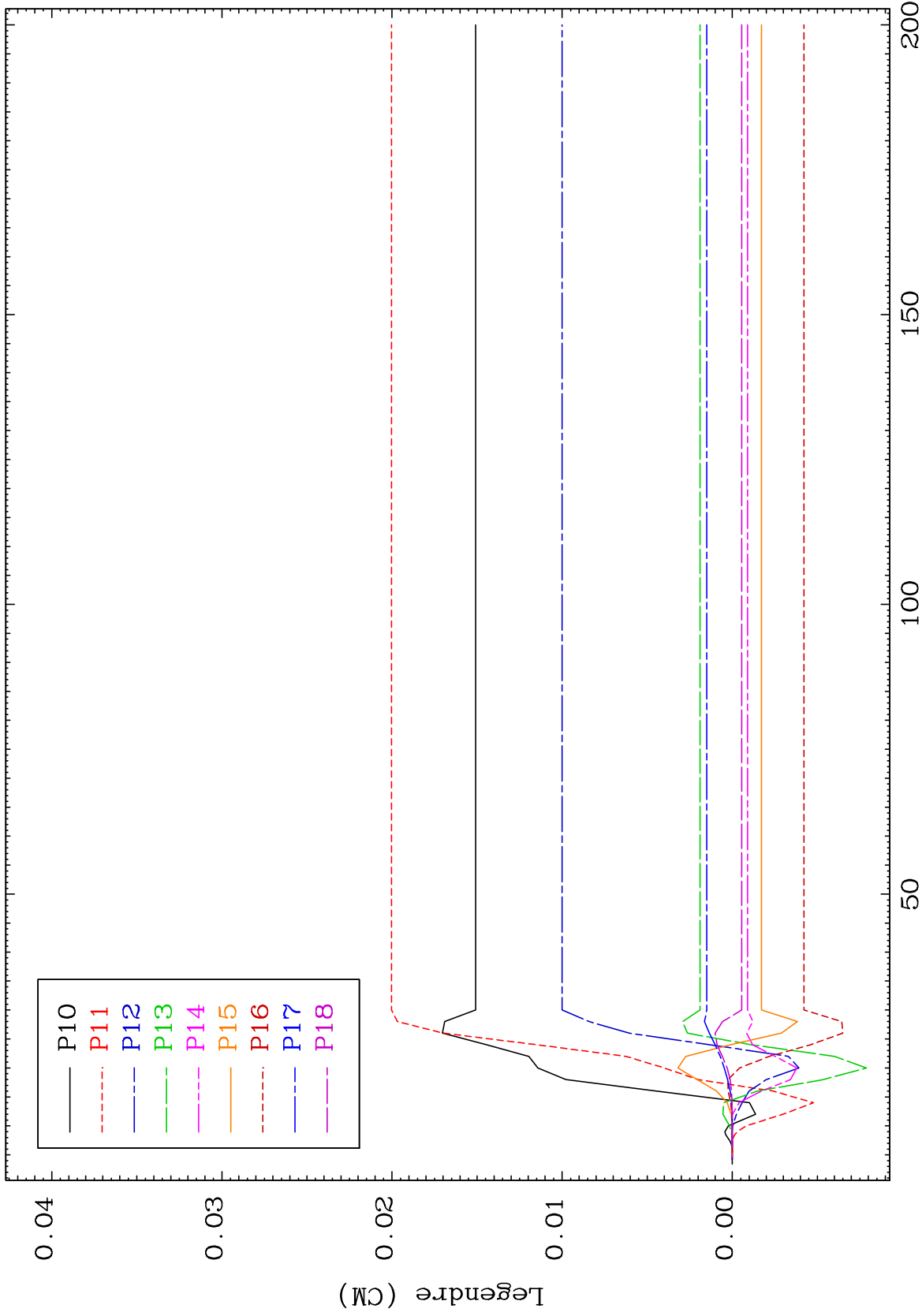
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 77 (n,n') Level
Legendre Coefficients

60-Nd-142



122

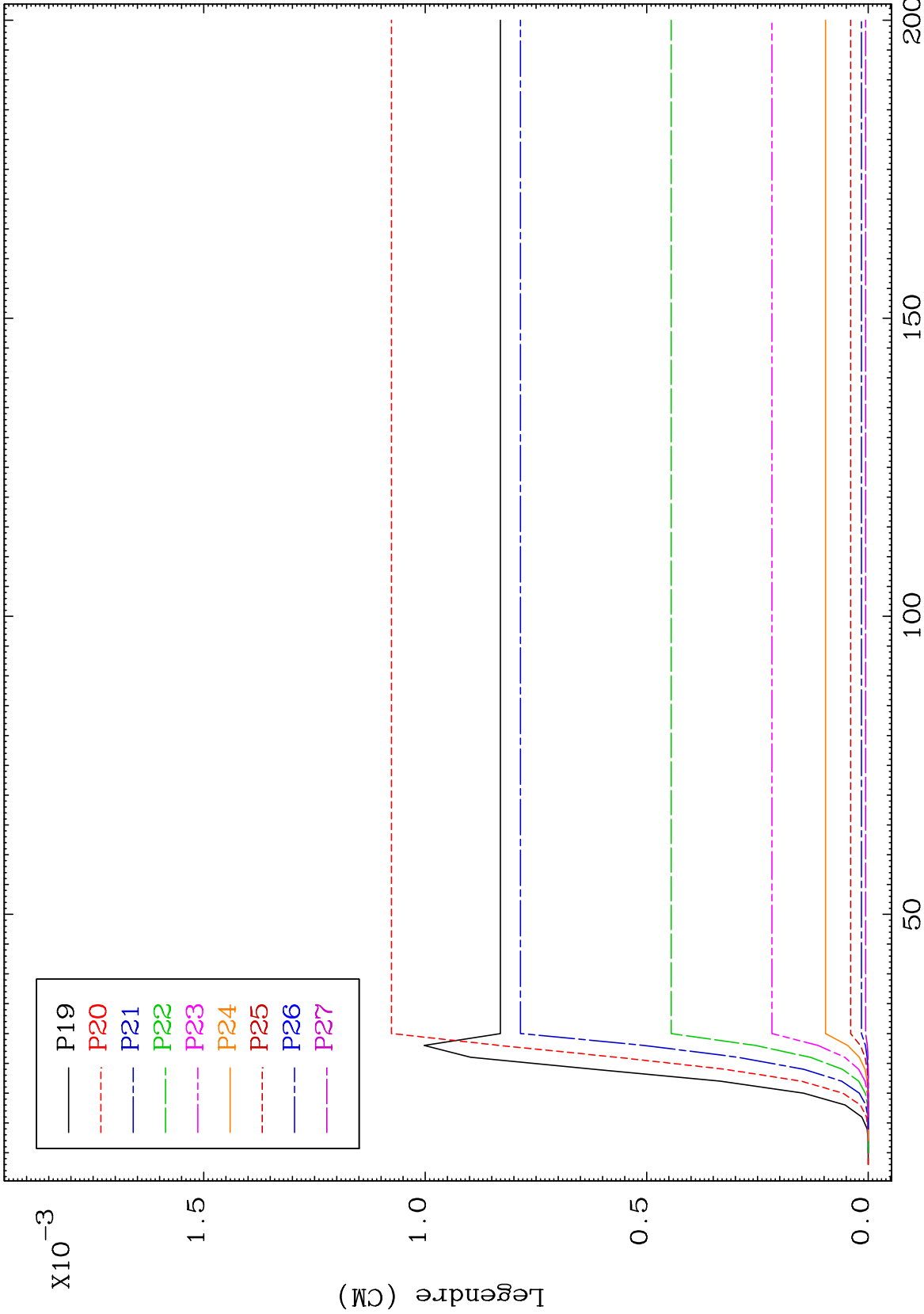
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 77 (n,n') Level
Legendre Coefficients

60-Nd-142



123

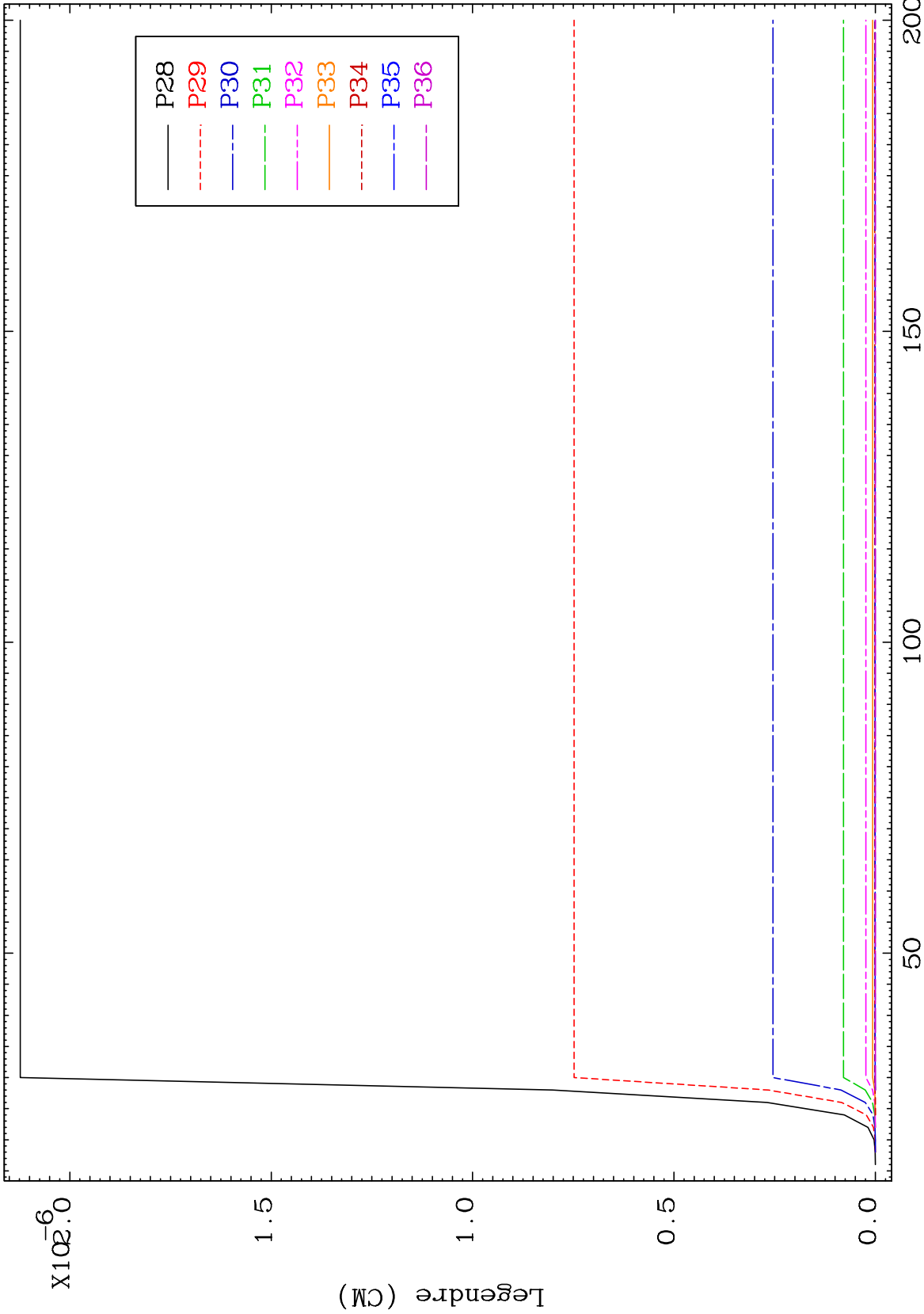
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 77 (n,n') Level
Legendre Coefficients

60-Nd-142

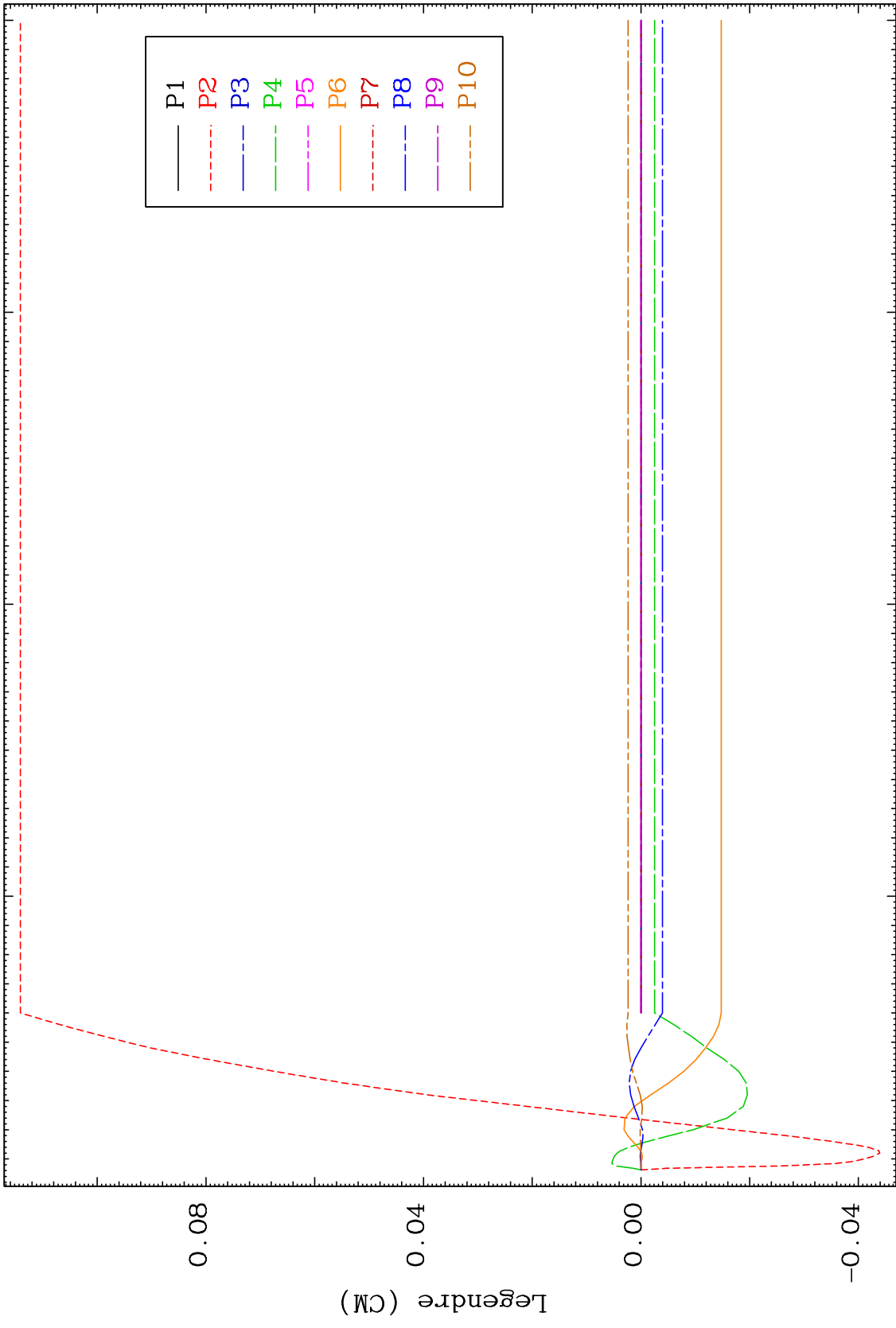


124

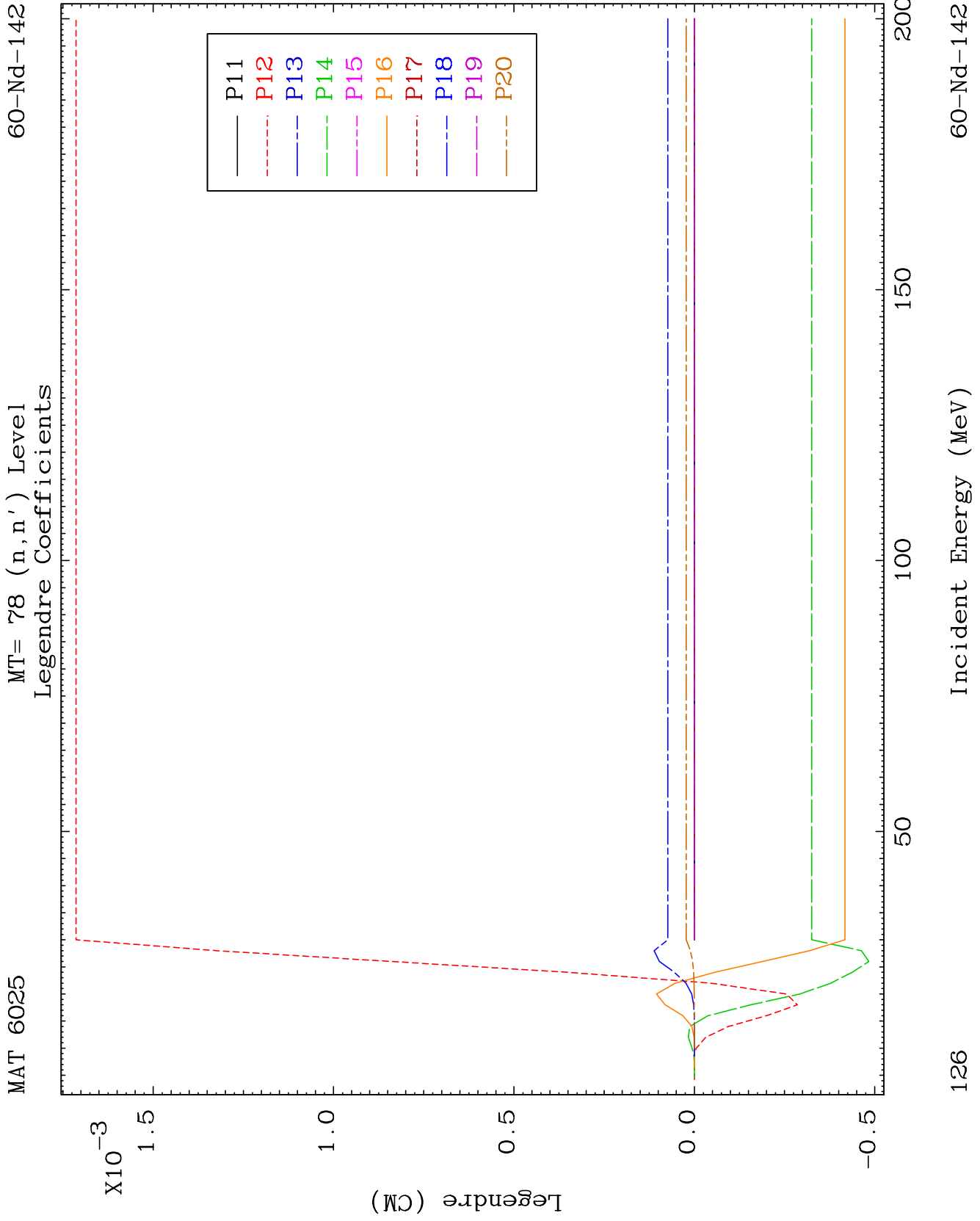
Incident Energy (MeV)

60-Nd-142

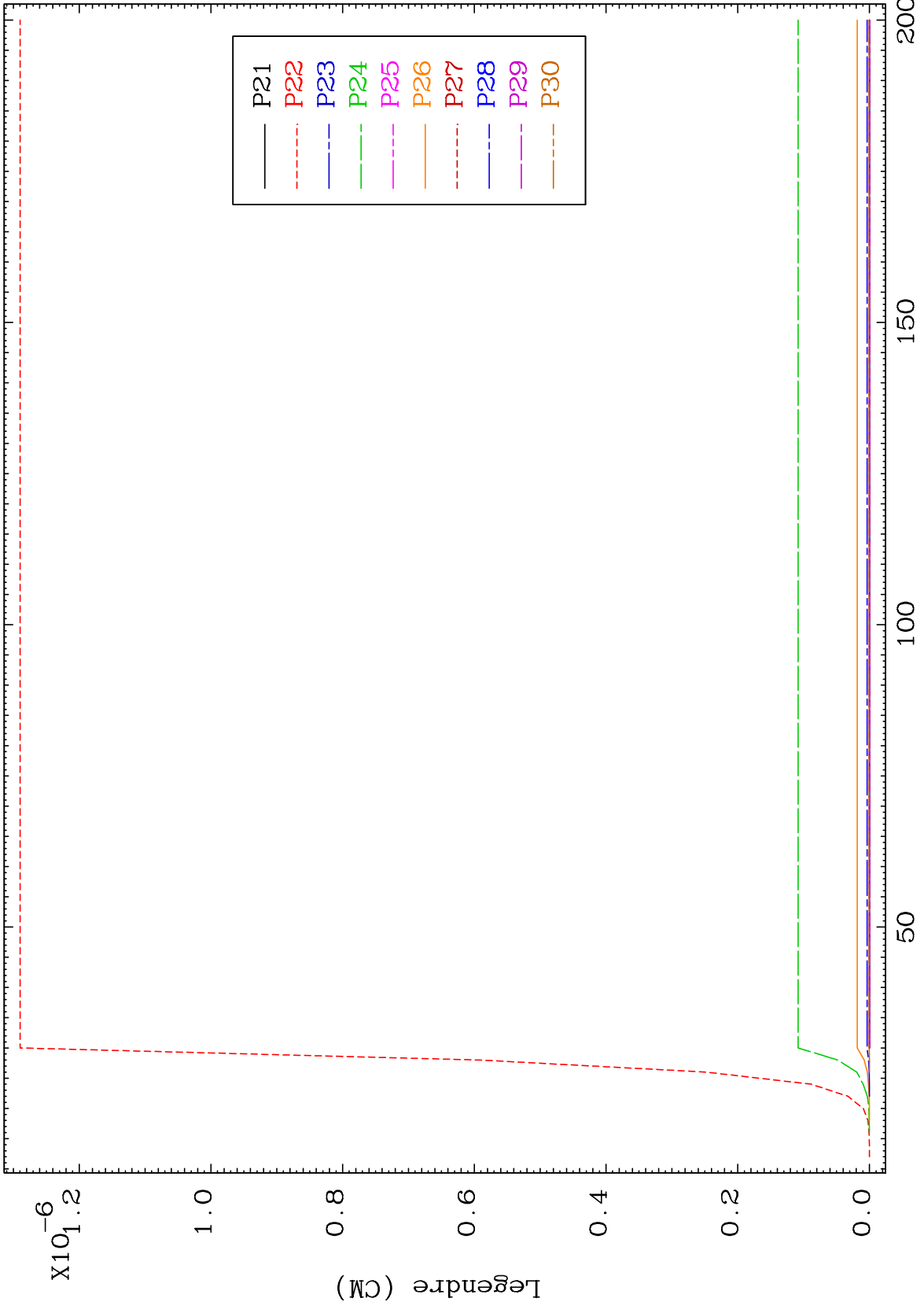
MAT 6025 MT= 78 (n,n') Level Legendre Coefficients 60-Nd-142



60-Nd-142

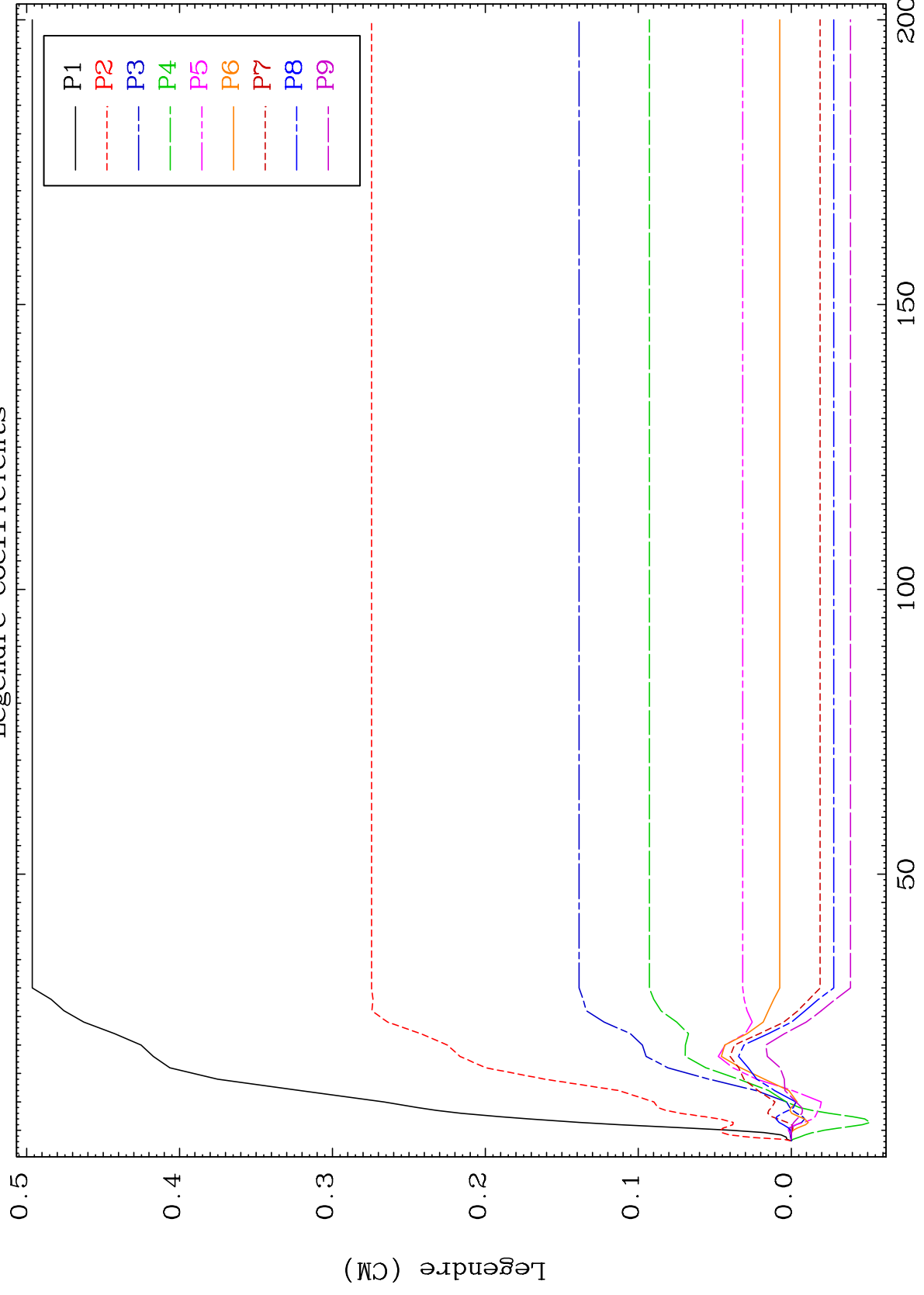


MAT 6025 MT= 78 (n,n') Level Legendre Coefficients 60-Nd-142



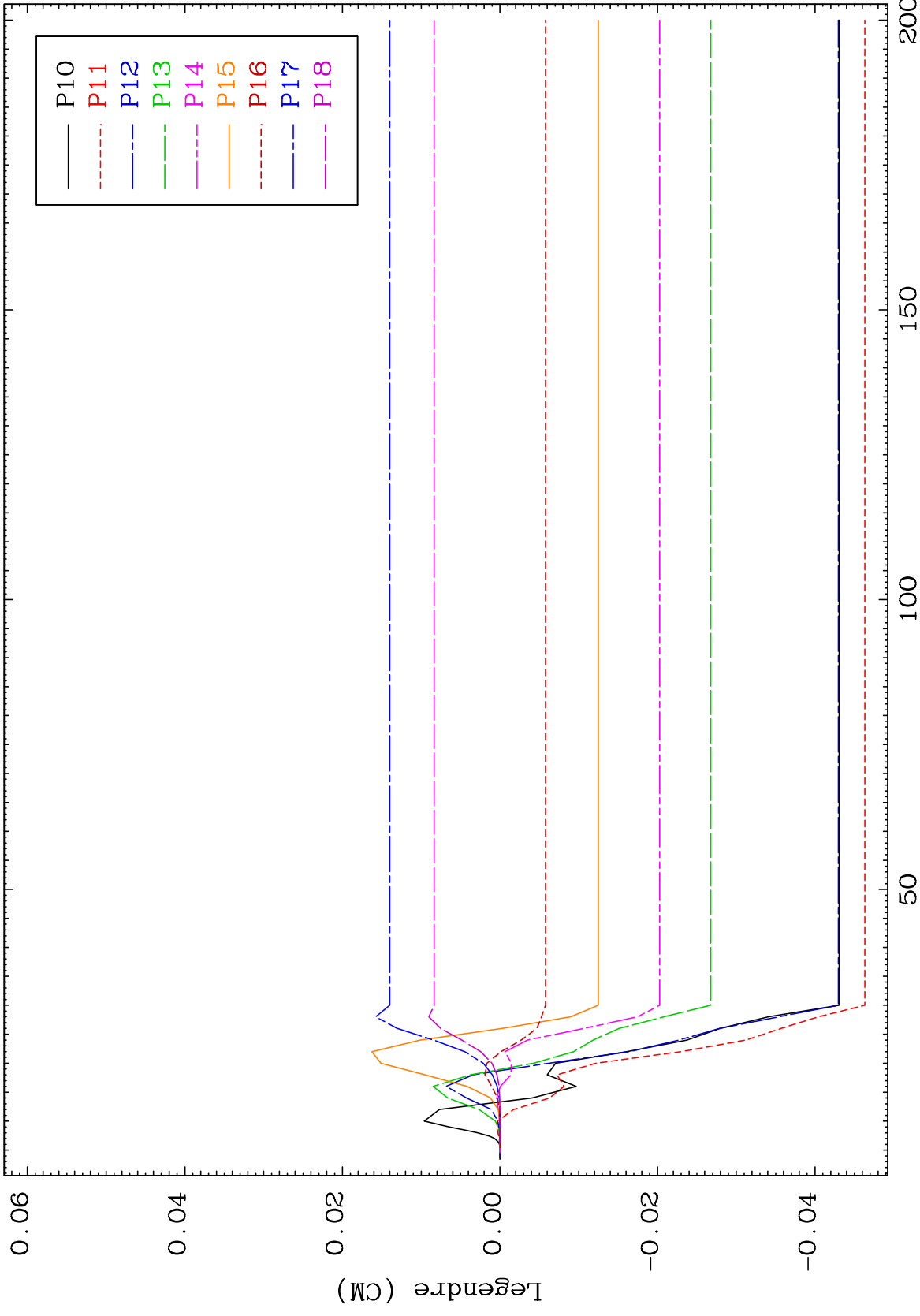
127 60-Nd-142

MAT 6025 MT= 79 (n,n') Level Legendre Coefficients 60-Nd-142



MAT 6025 MT= 79 (n,n') Level Legendre Coefficients

60-Nd-142



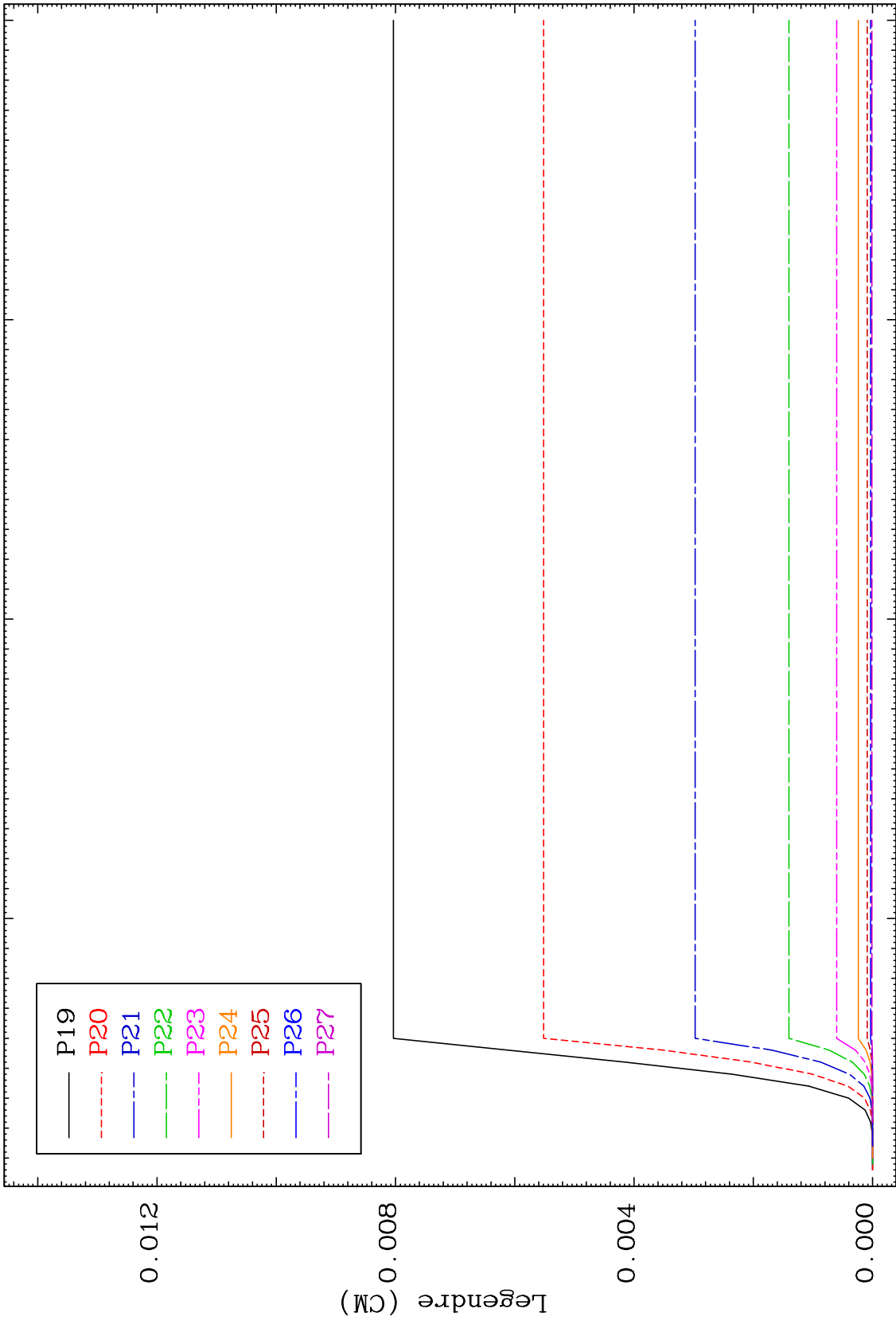
60-Nd-142

Incident Energy (MeV)

MAT 6025

MT= 79 (n,n') Level
Legendre Coefficients

60-Nd-142



130

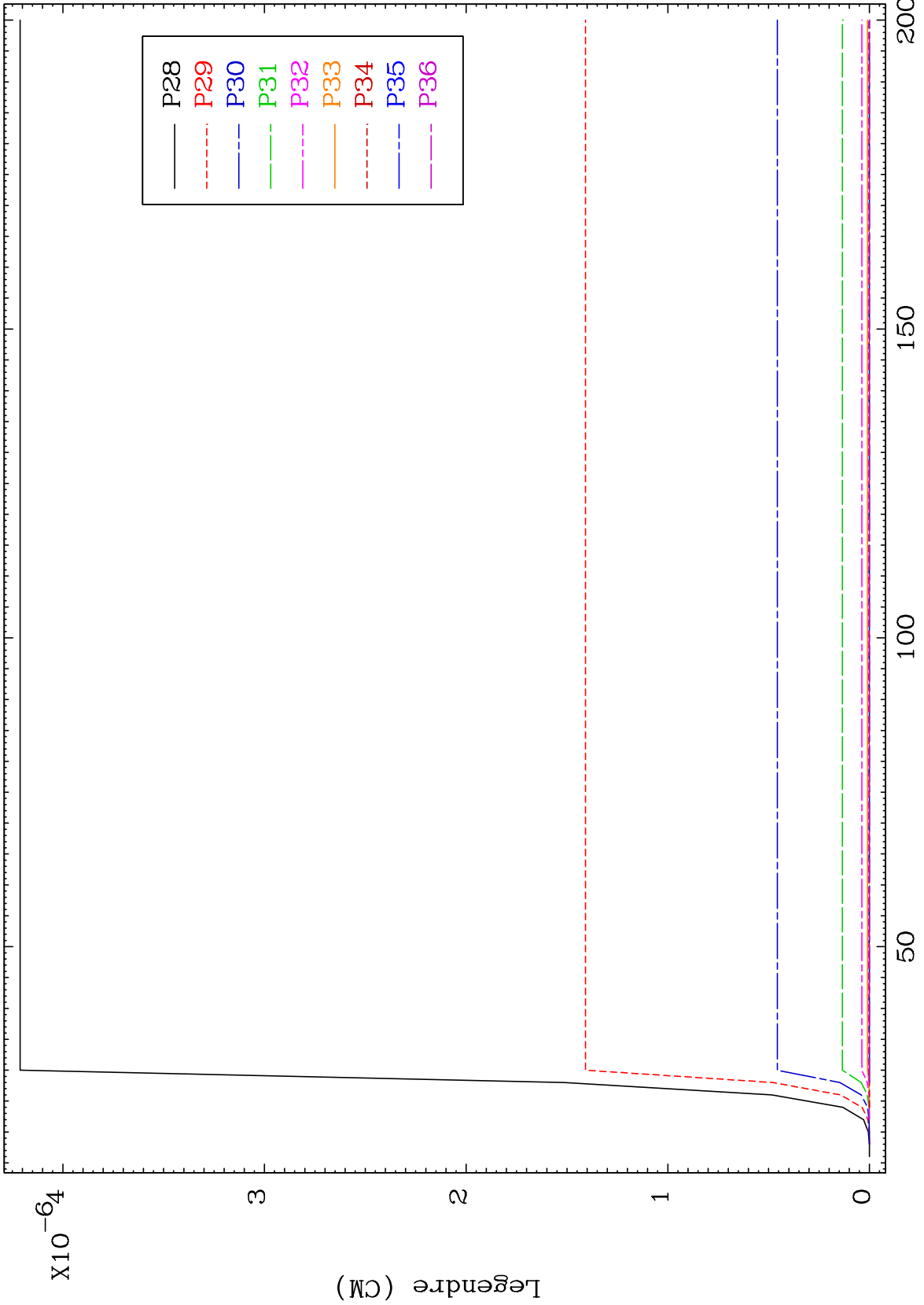
Incident Energy (MeV)

60-Nd-142

MAT 6025

MT= 79 (n,n') Level
Legendre Coefficients

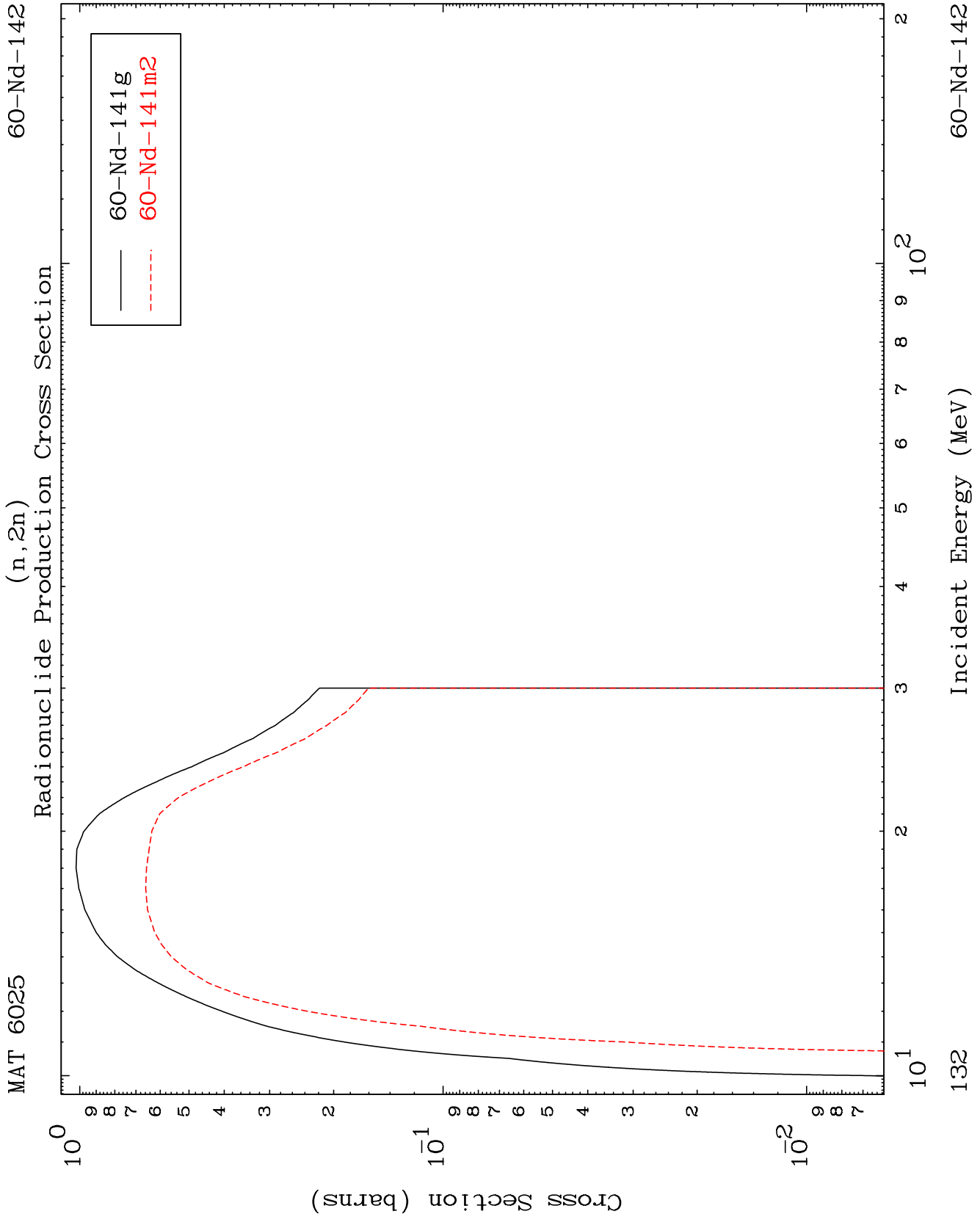
60-Nd-142



131

Incident Energy (MeV)

60-Nd-142

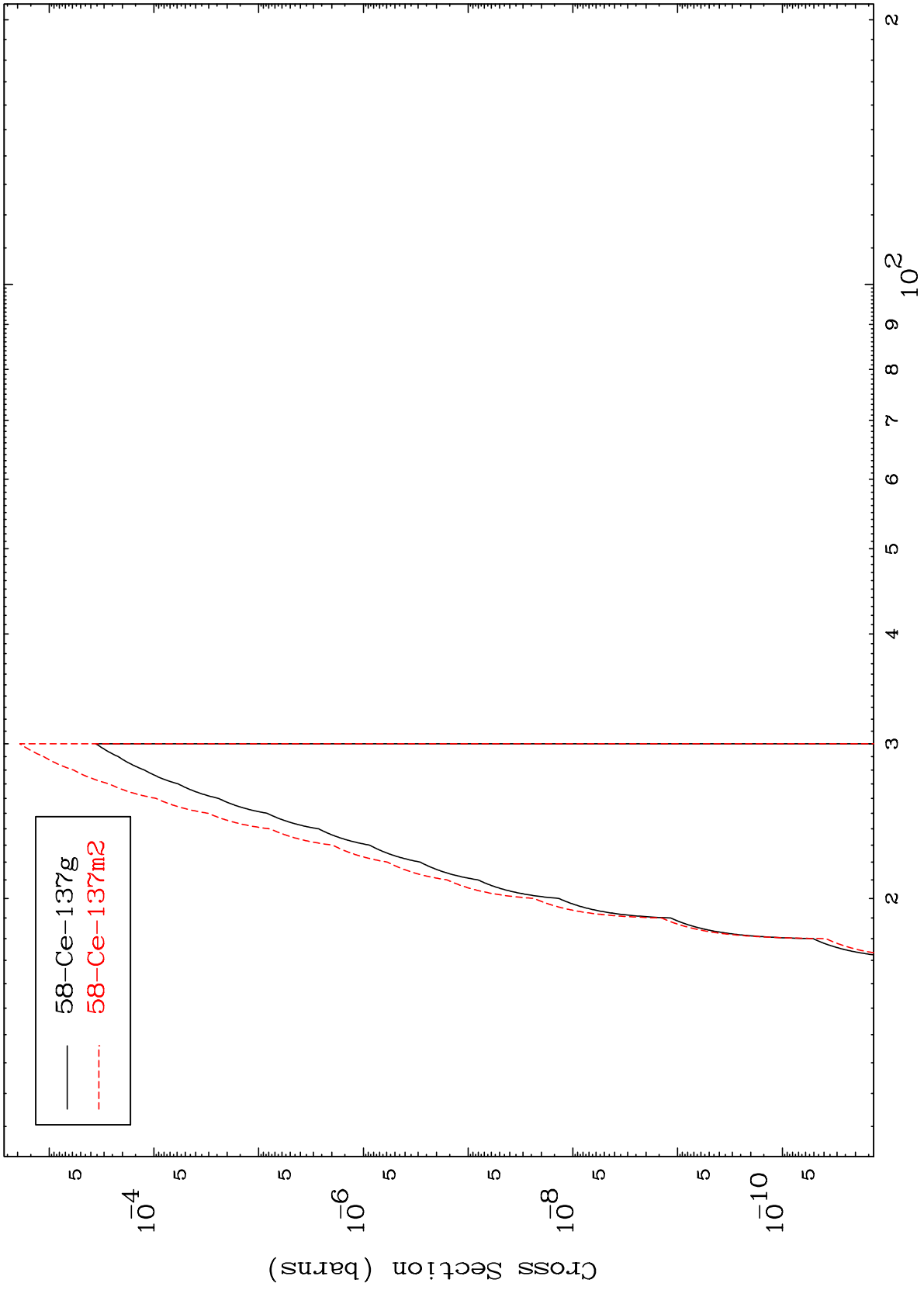


MAT 6025

(n,2n) α

$^{60}\text{Nd-142}$

Radionuclide Production Cross Section



133

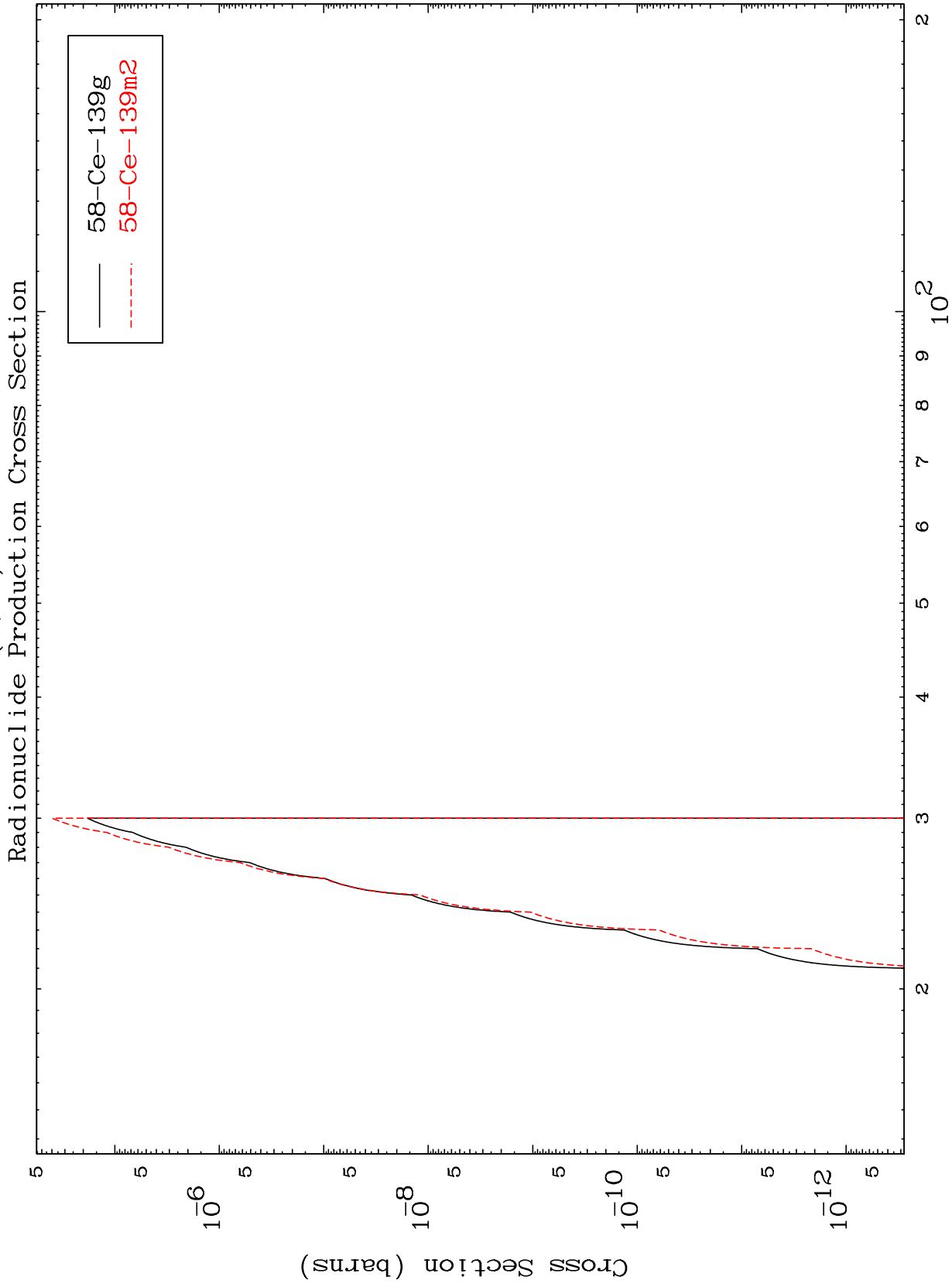
Incident Energy (MeV)

$^{60}\text{Nd-142}$

MAT 6025

(n, n') He-3

60-Nd-142



134

Incident Energy (MeV)

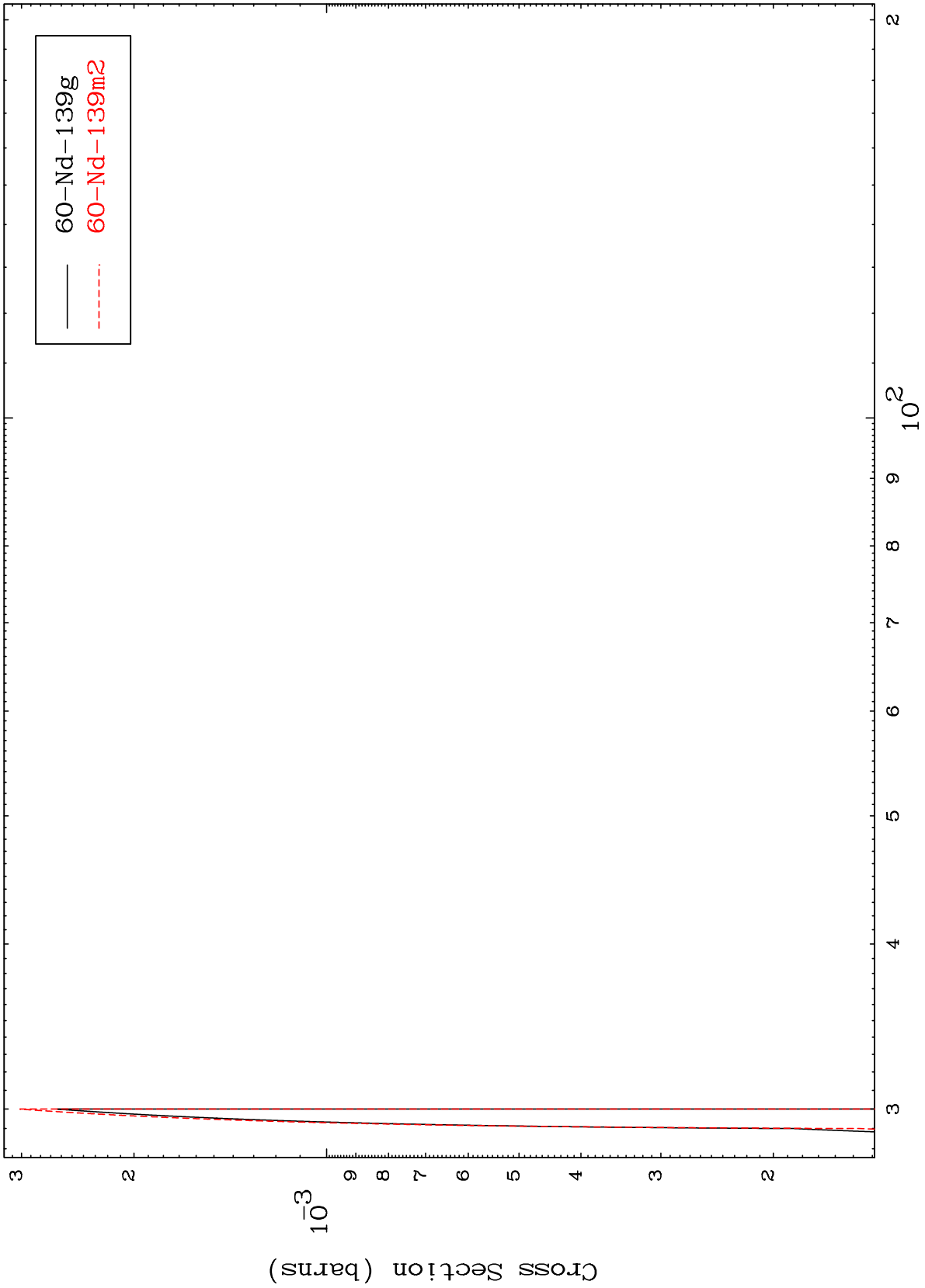
60-Nd-142

MAT 6025

(n,4n)

⁶⁰Nd-142

Radionuclide Production Cross Section



60-Nd-139g
60-Nd-139m2

135

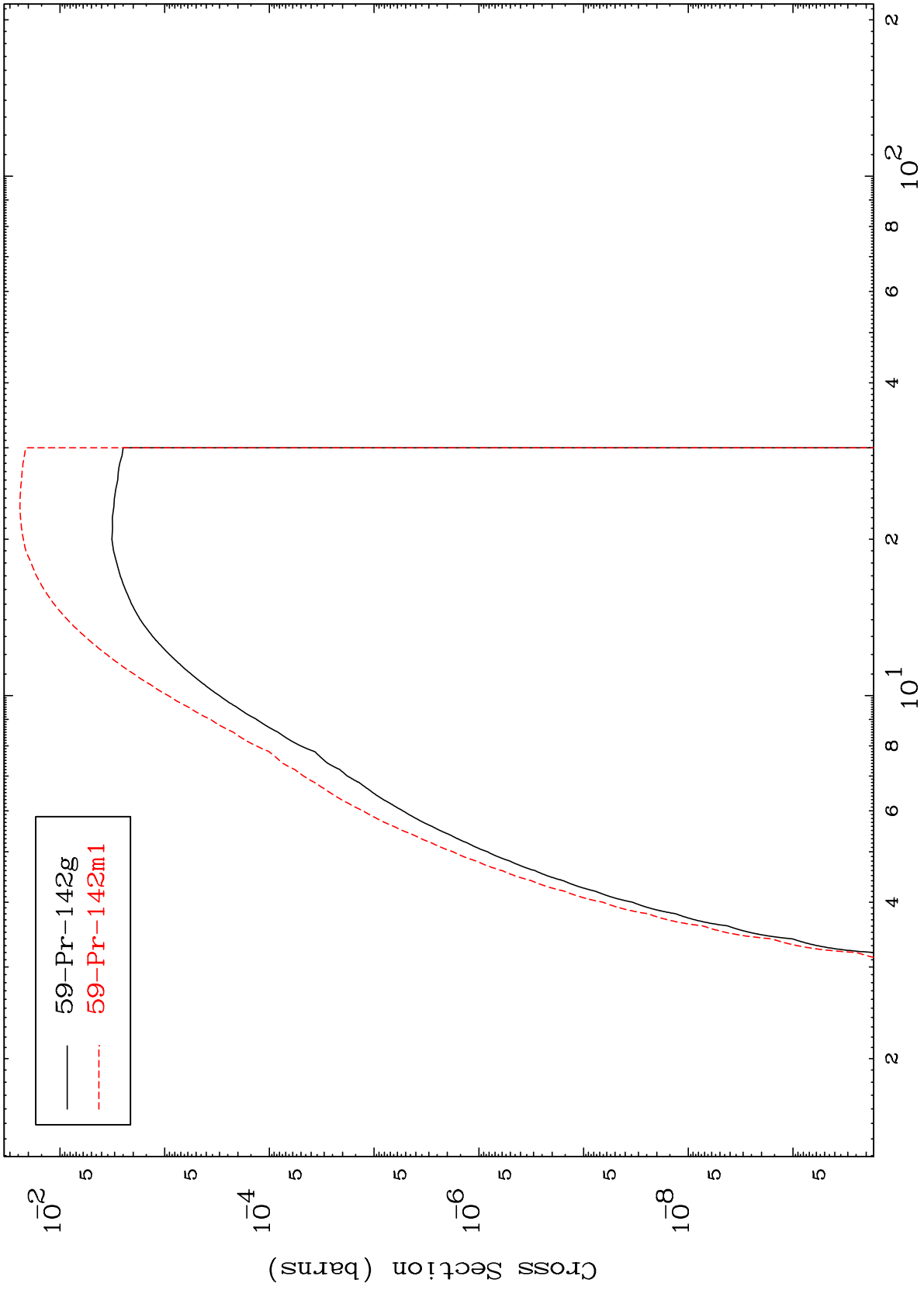
Incident Energy (MeV)

⁶⁰Nd-142

MAT 6025

60-Nd-142

(n,p)
Radionuclide Production Cross Section



136

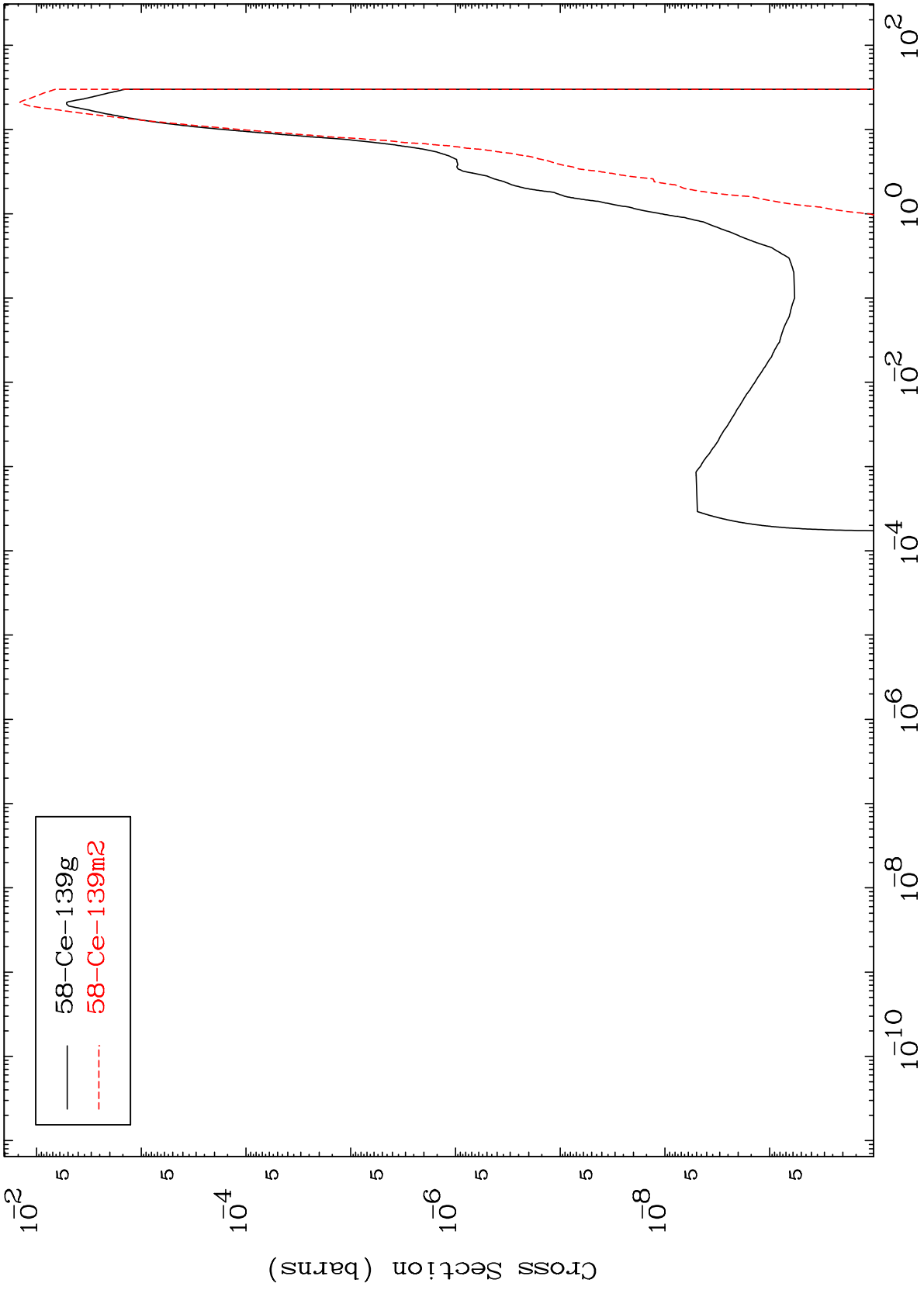
60-Nd-142

MAT 6025

(n, α)

$^{60}\text{Nd-142}$

Radionuclide Production Cross Section



137

Incident Energy (MeV)

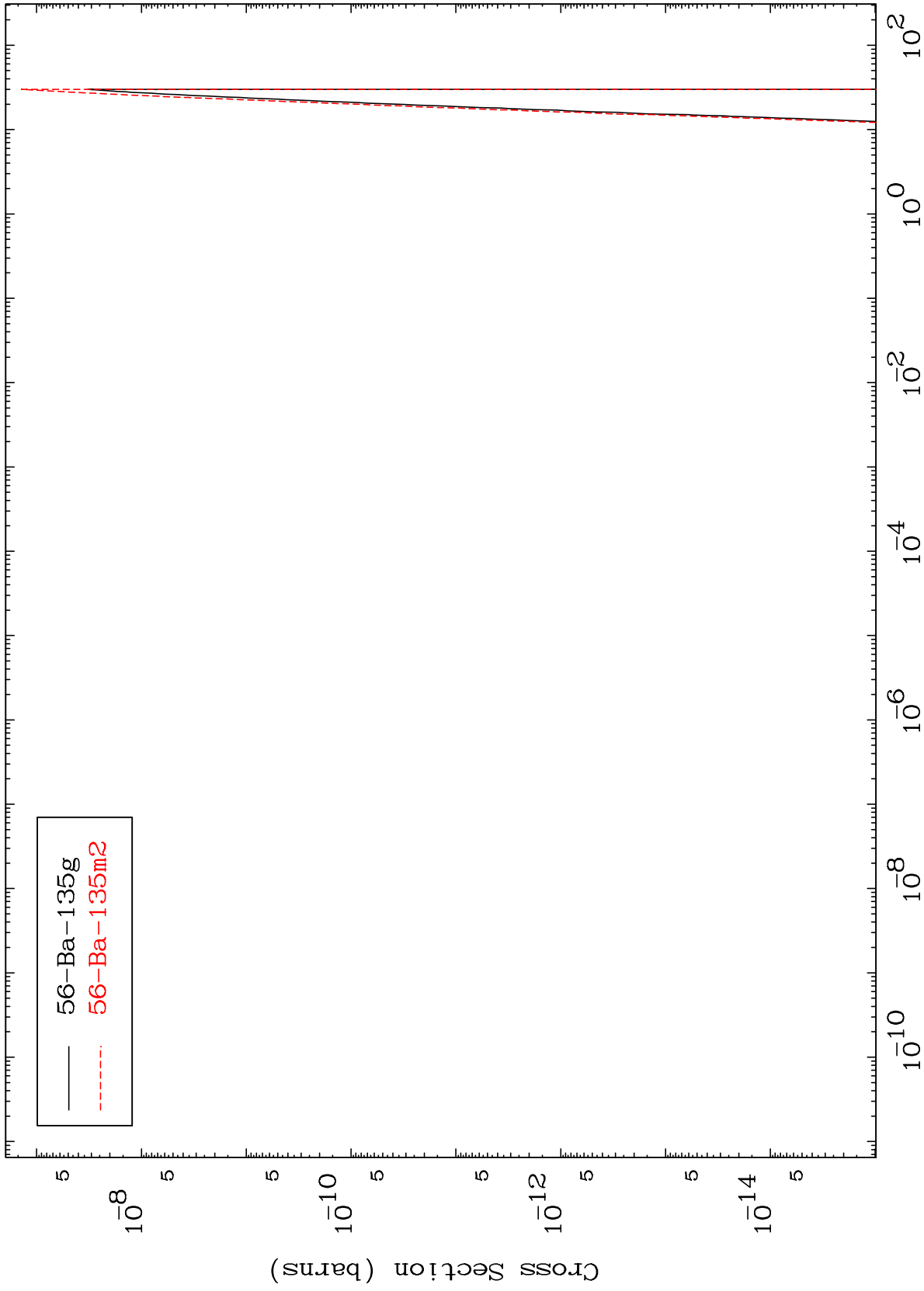
$^{60}\text{Nd-142}$

MAT 6025

(n, 2α)

60-Nd-142

Radionuclide Production Cross Section



138

Incident Energy (MeV)

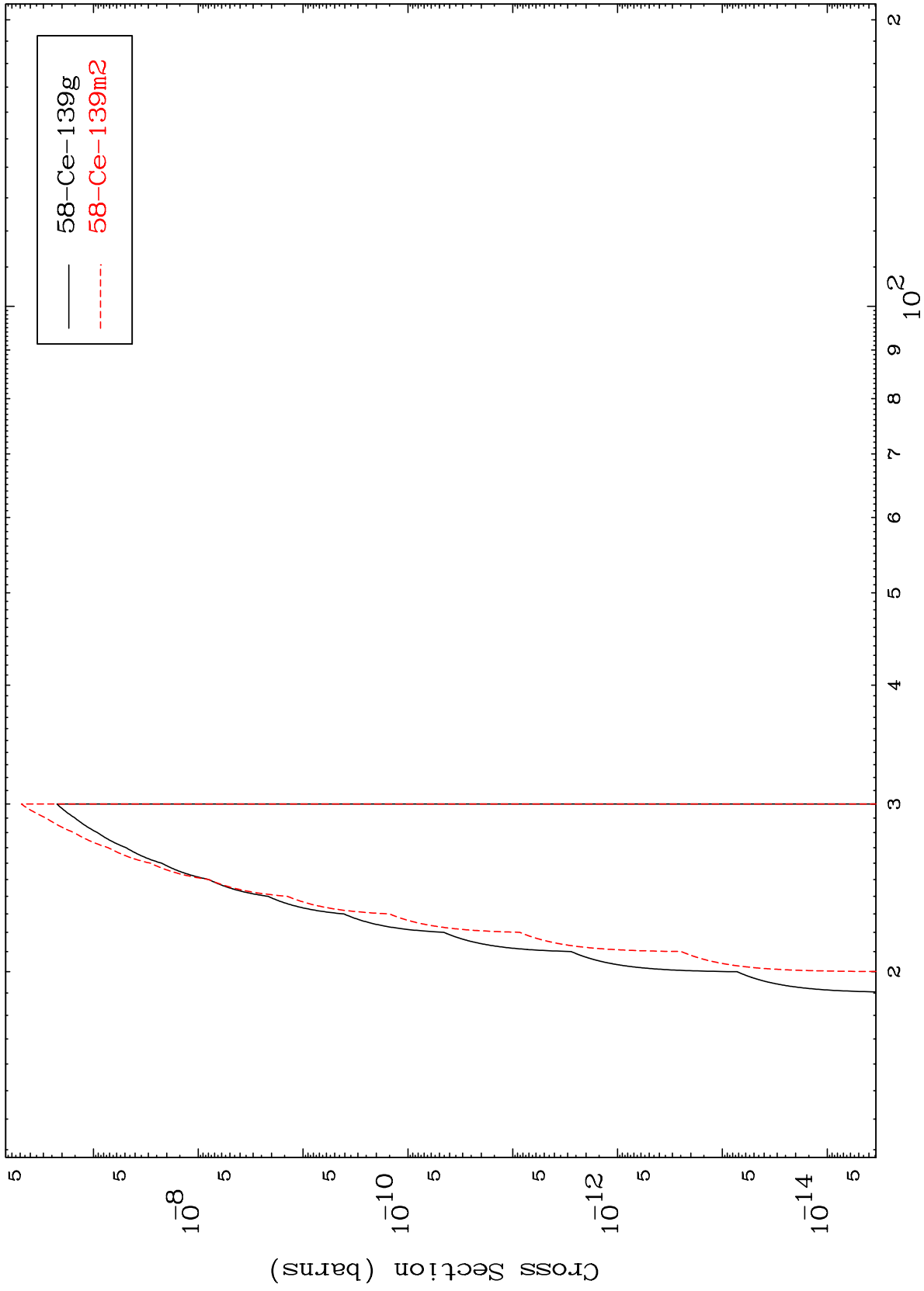
60-Nd-142

MAT 6025

(n,p) t

⁶⁰Nd-142

Radionuclide Production Cross Section



139

Incident Energy (MeV)

⁶⁰Nd-142