

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

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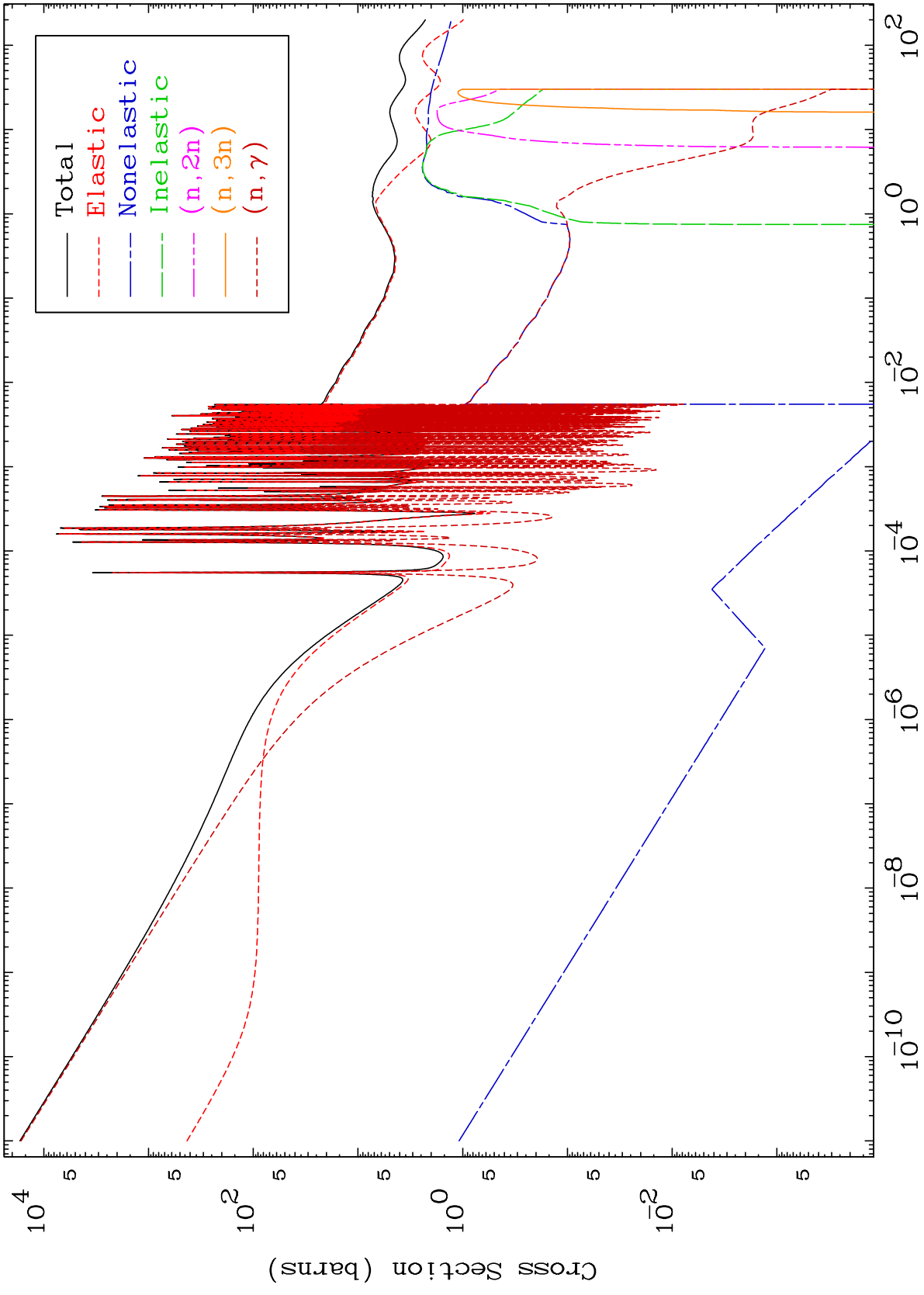
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6028

Neutron Major
293 Kelvin Cross Sections

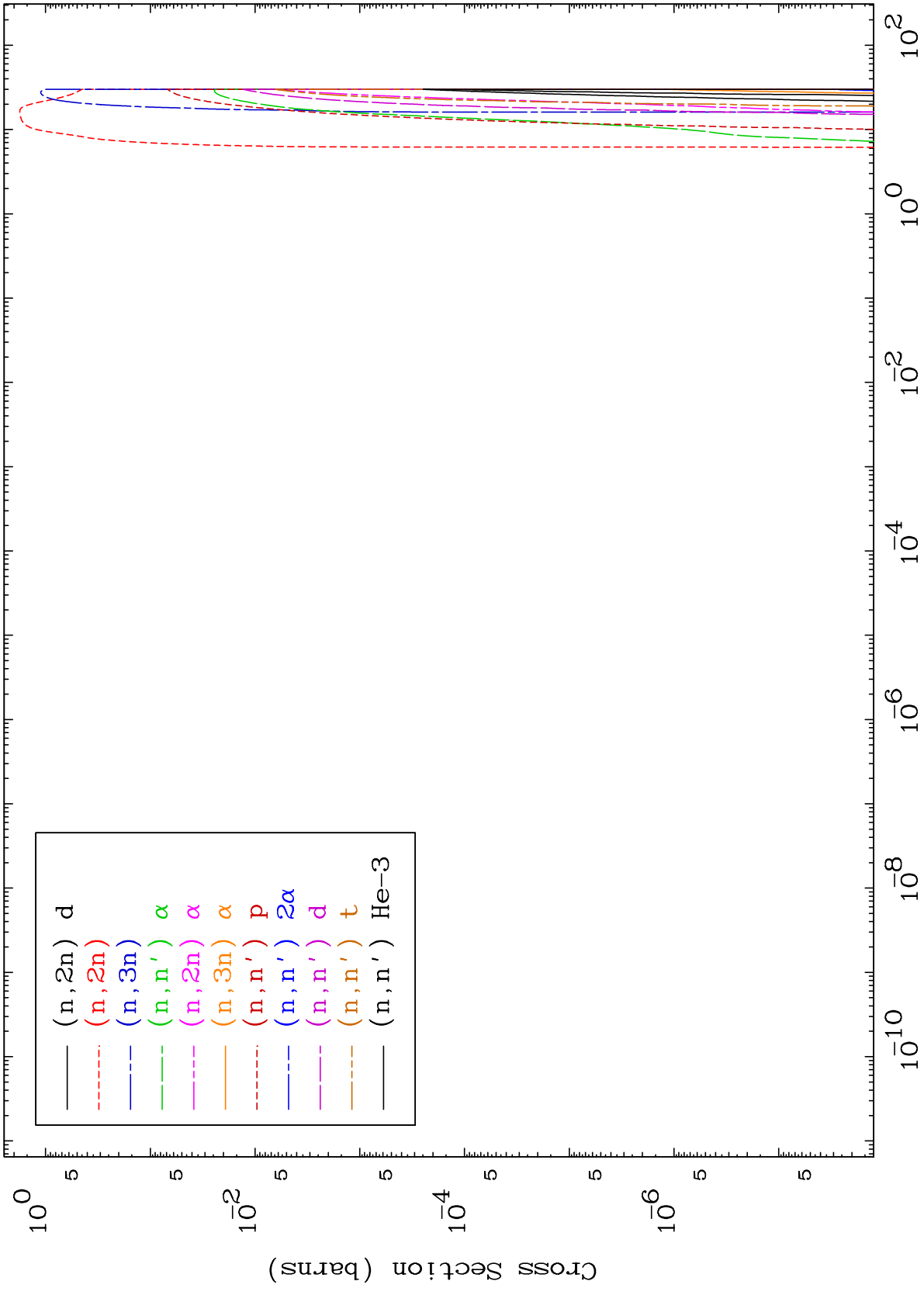
60-Nd-143



MAT 6028

Neutron Absorption
293 Kelvin Cross Sections

60-Nd-143

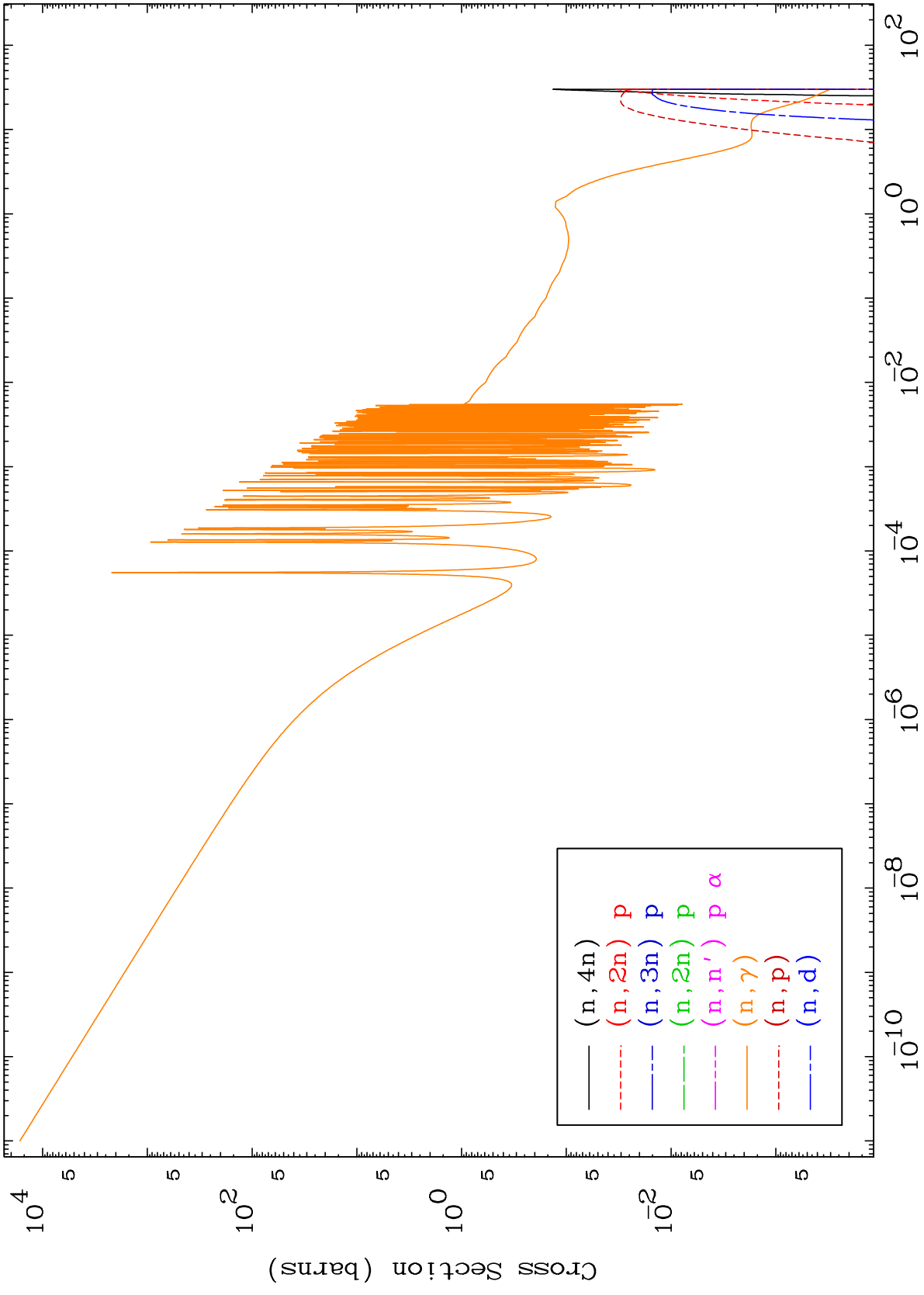


60-Nd-143

MAT 6028

Neutron Absorption
293 Kelvin Cross Sections

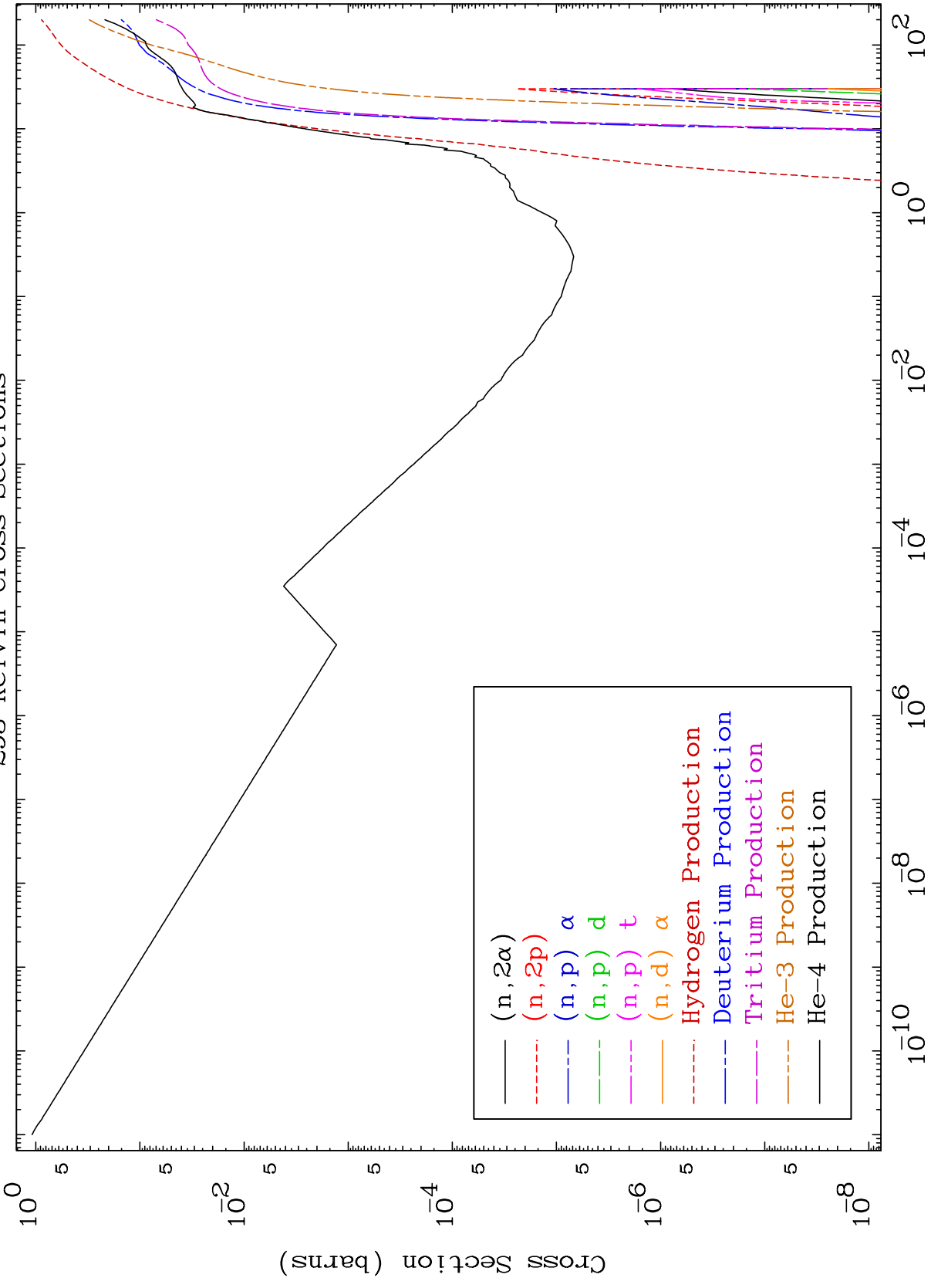
60-Nd-143



MAT 6028

Neutron Absorption
293 Kelvin Cross Sections

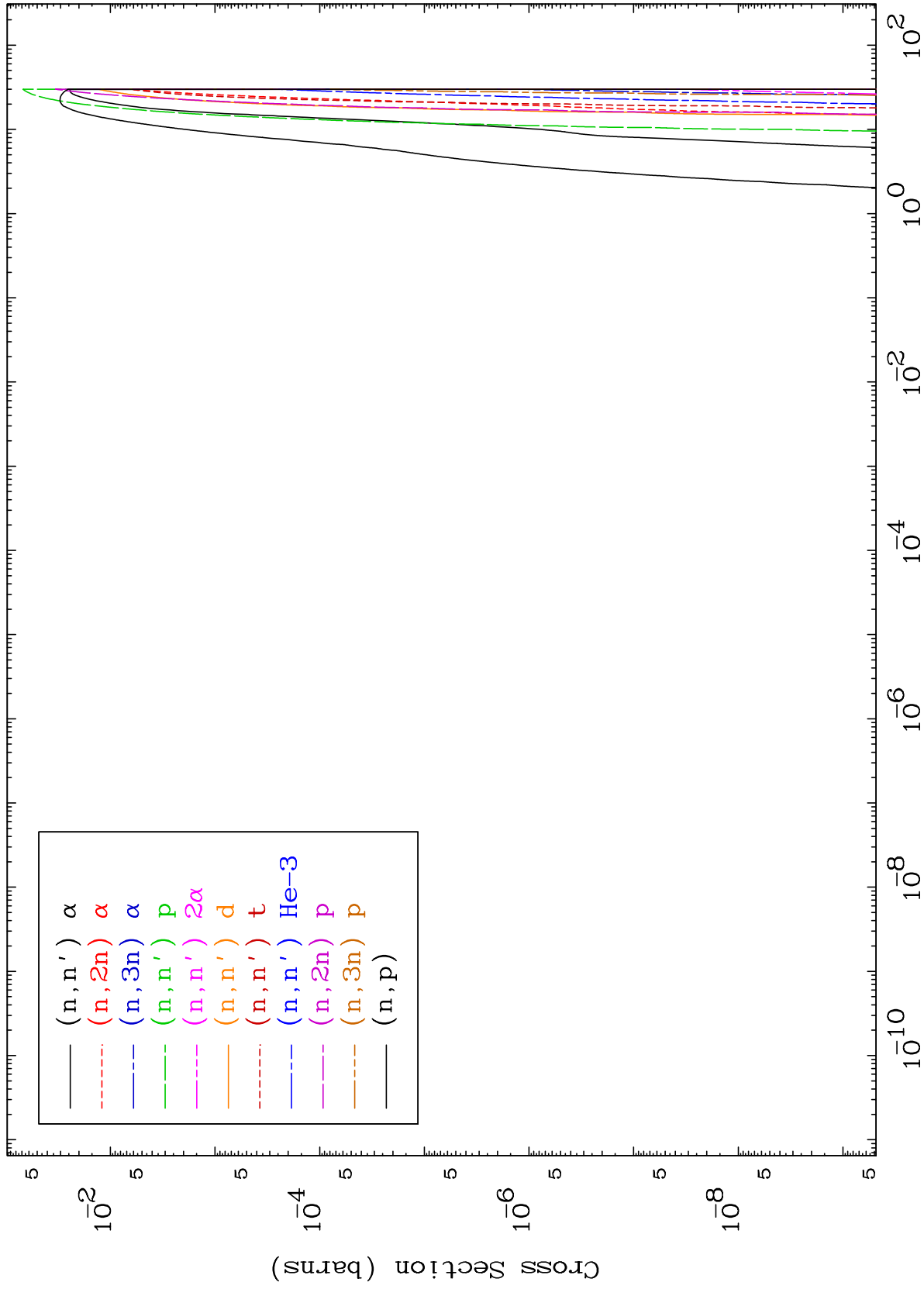
60-Nd-143



MAT 6028

Charged Particle
293 Kelvin Cross Sections

60-Nd-143



5

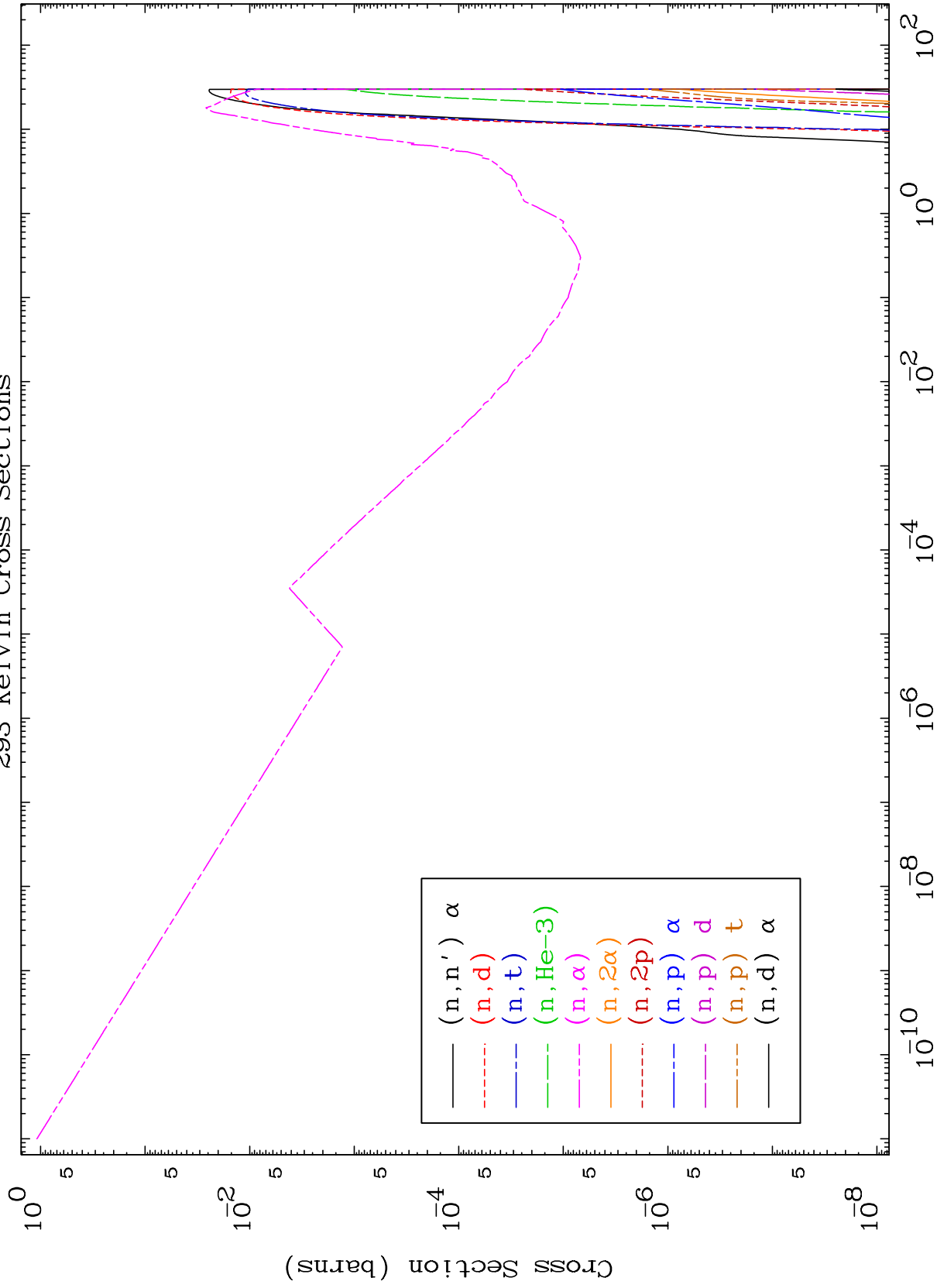
Incident Energy (MeV)

60-Nd-143

MAT 6028

Charged Particle
293 Kelvin Cross Sections

60-Nd-143



6

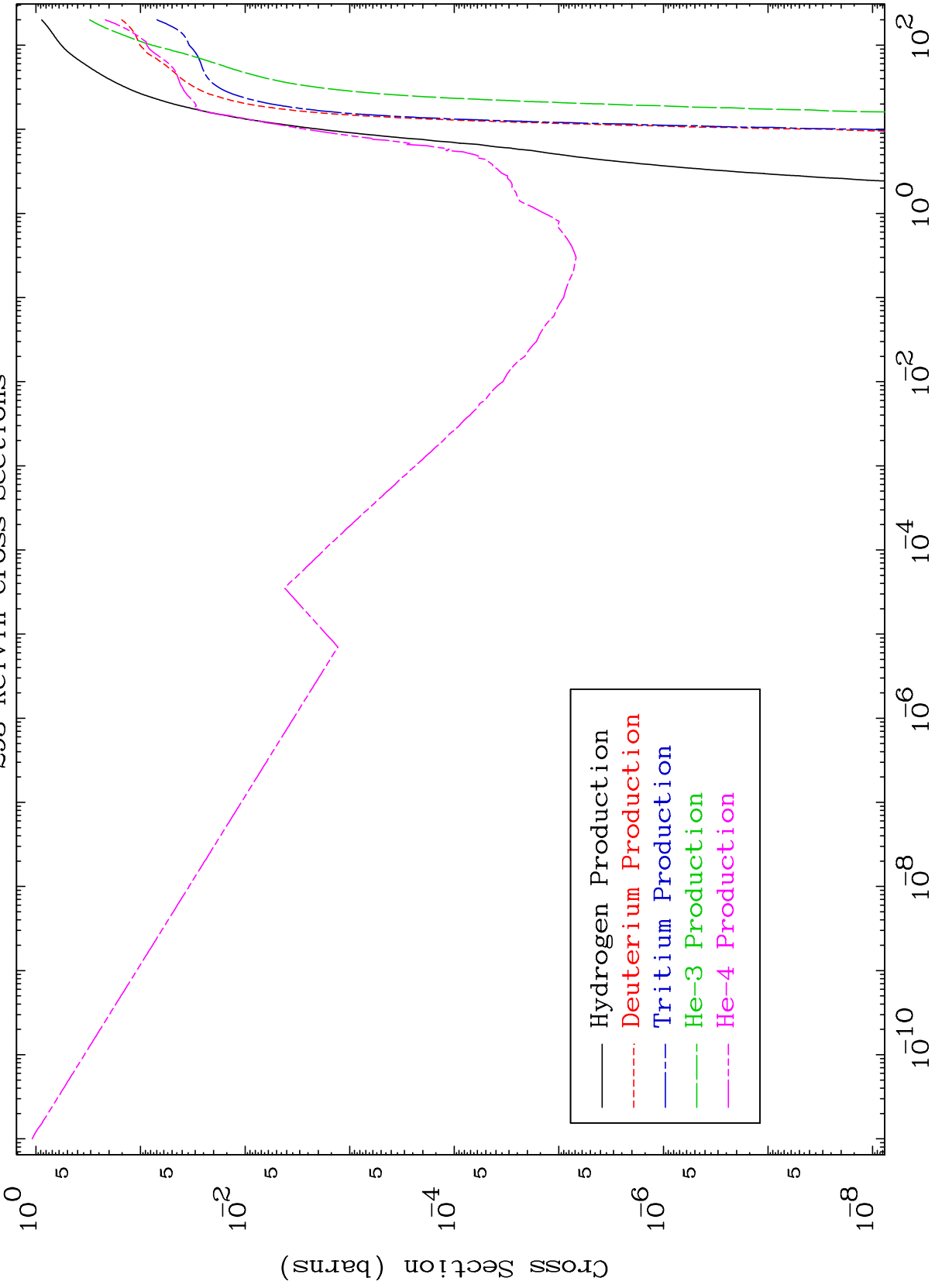
Incident Energy (MeV)

60-Nd-143

MAT 6028

Particle Production
293 Kelvin Cross Sections

60-Nd-143

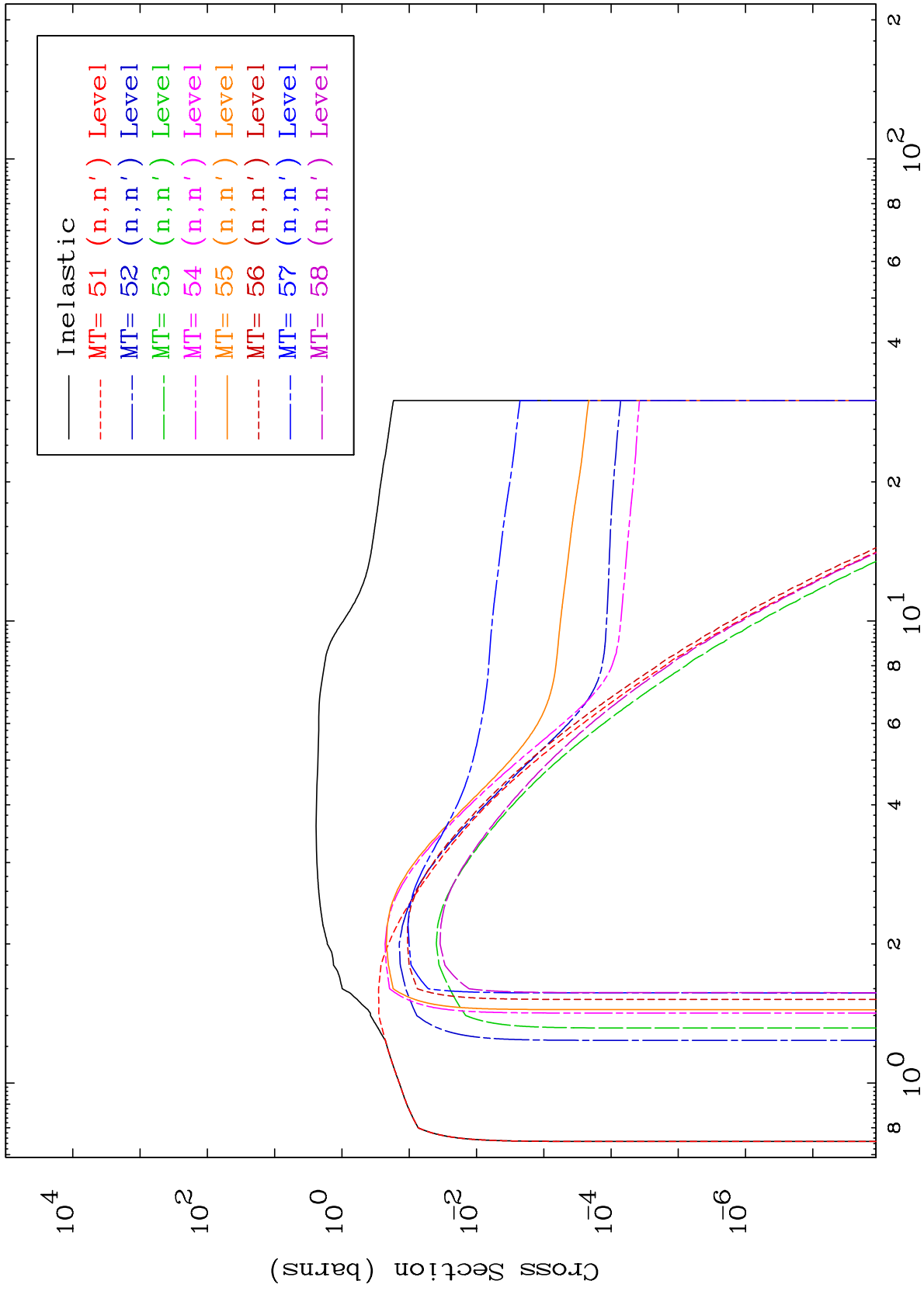


MAT 6028

(n,n') Levels

60-Nd-143

293 Kelvin Cross Sections



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Incident Energy (MeV)

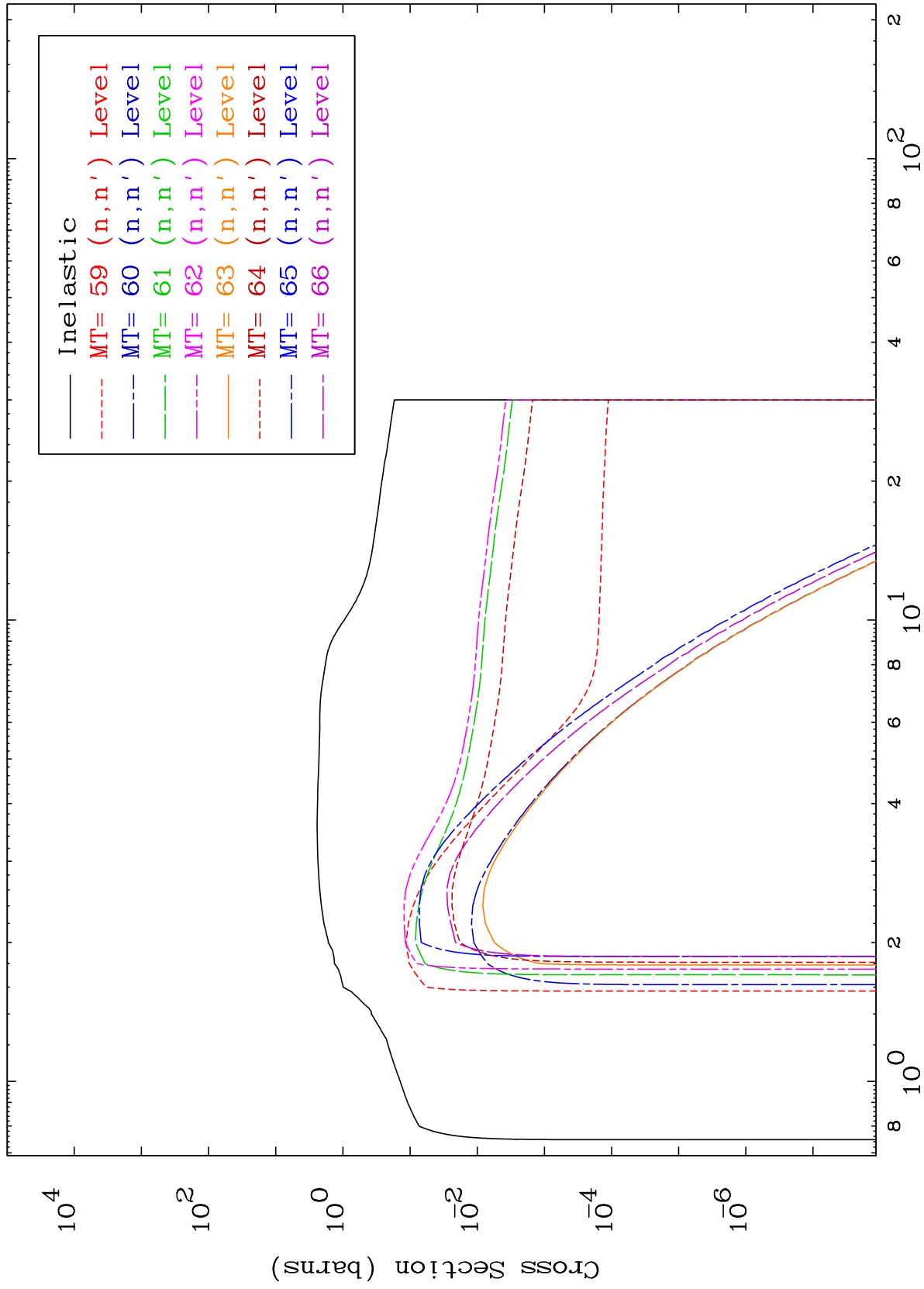
60-Nd-143

MAT 6028

(n,n') Levels

293 Kelvin Cross Sections

60-Nd-143



9

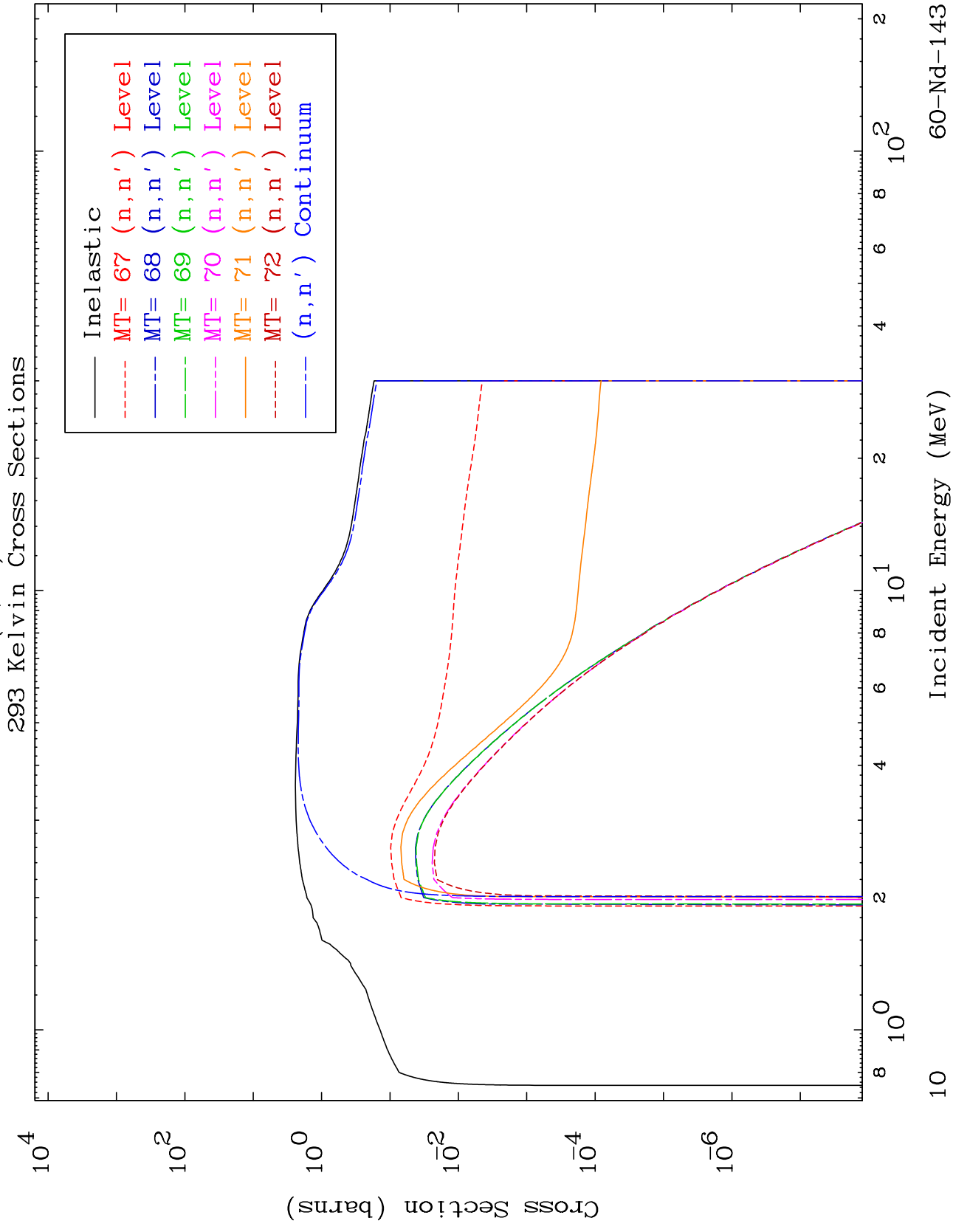
Incident Energy (MeV)

60-Nd-143

MAT 6028

(n,n') Levels

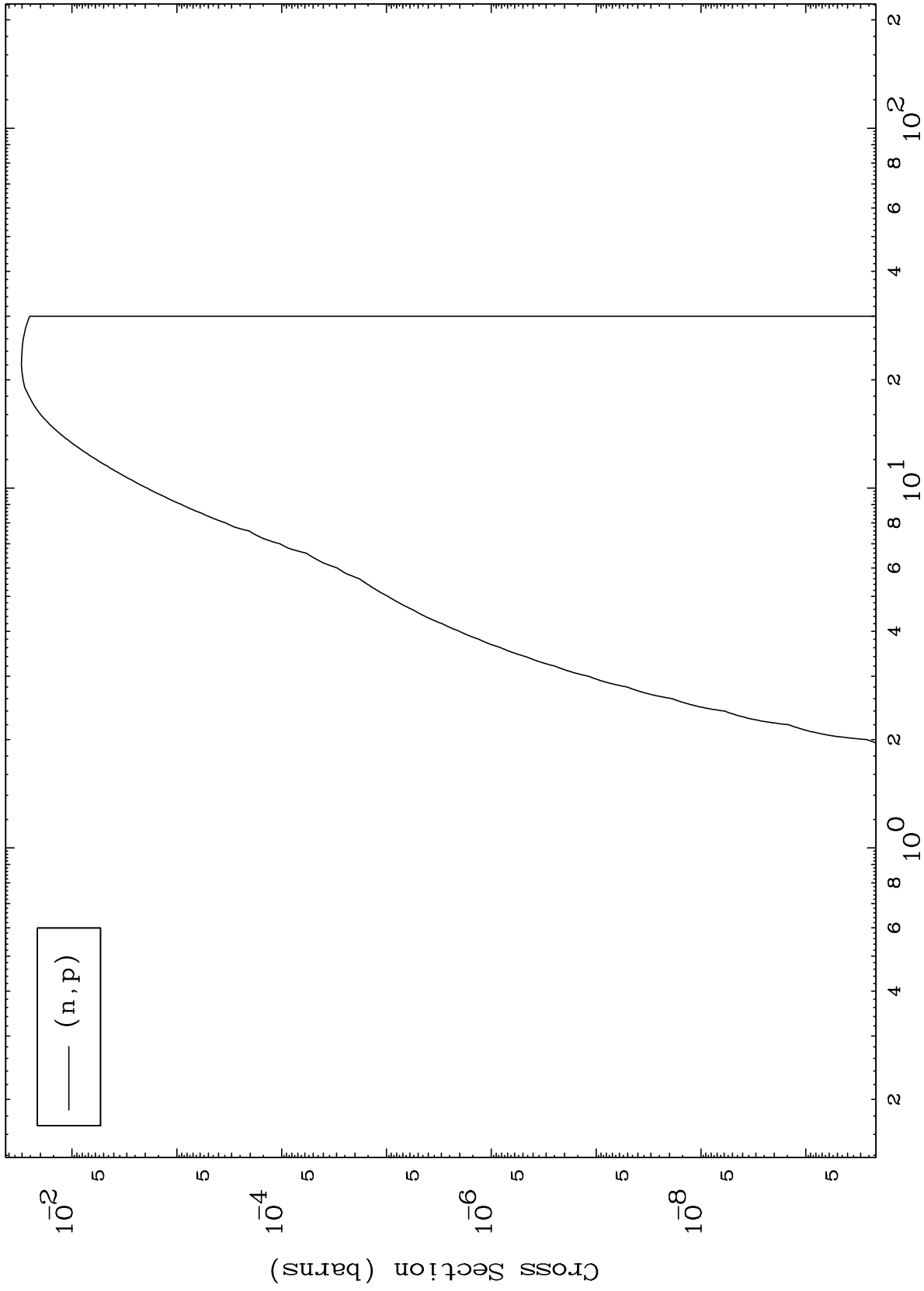
60-Nd-143



MAT 6028

(n,p) Levels
293 Kelvin Cross Sections

60-Nd-143



11

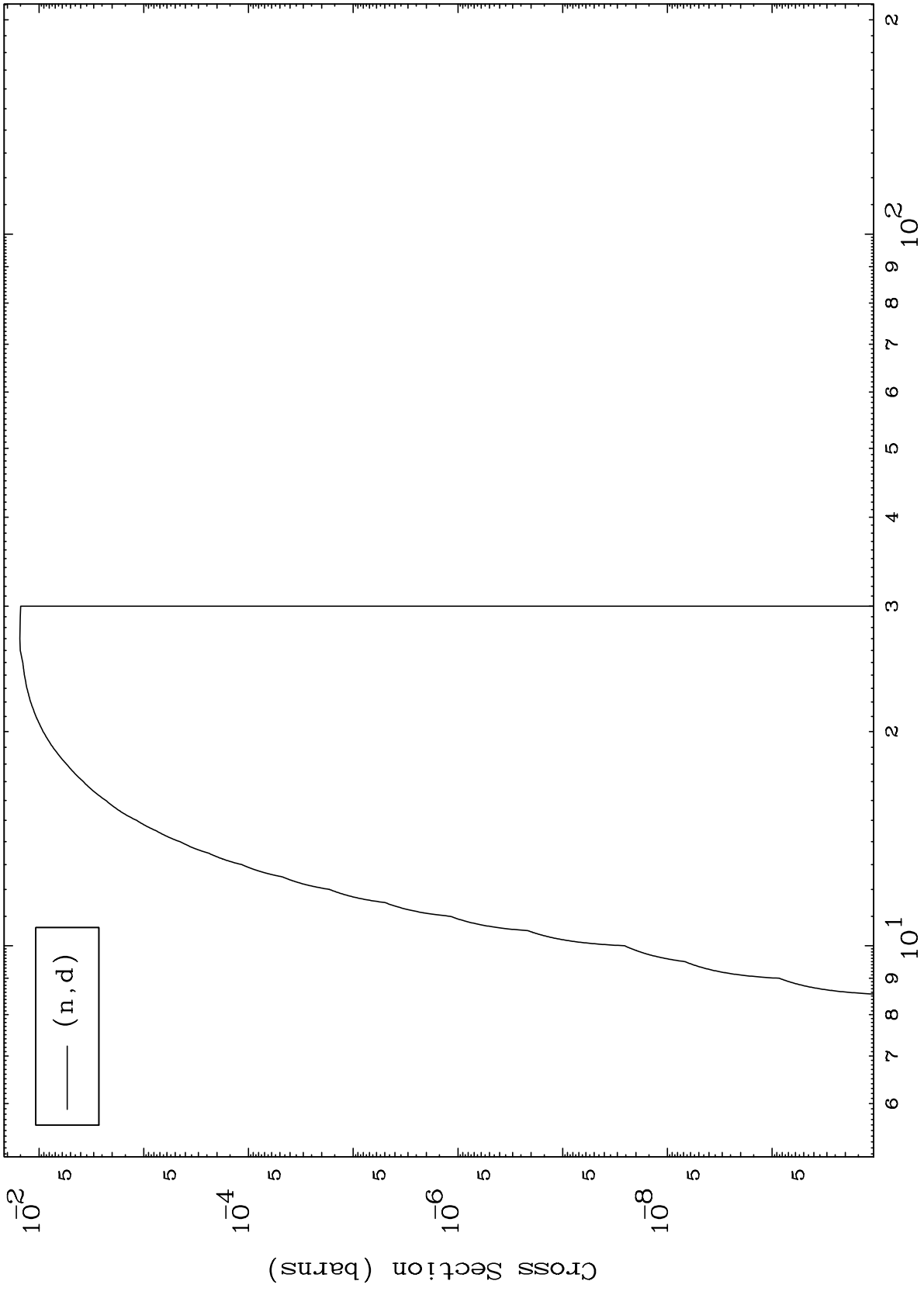
Incident Energy (MeV)

60-Nd-143

MAT 6028

(n,d) Levels
293 Kelvin Cross Sections

60-Nd-143



12

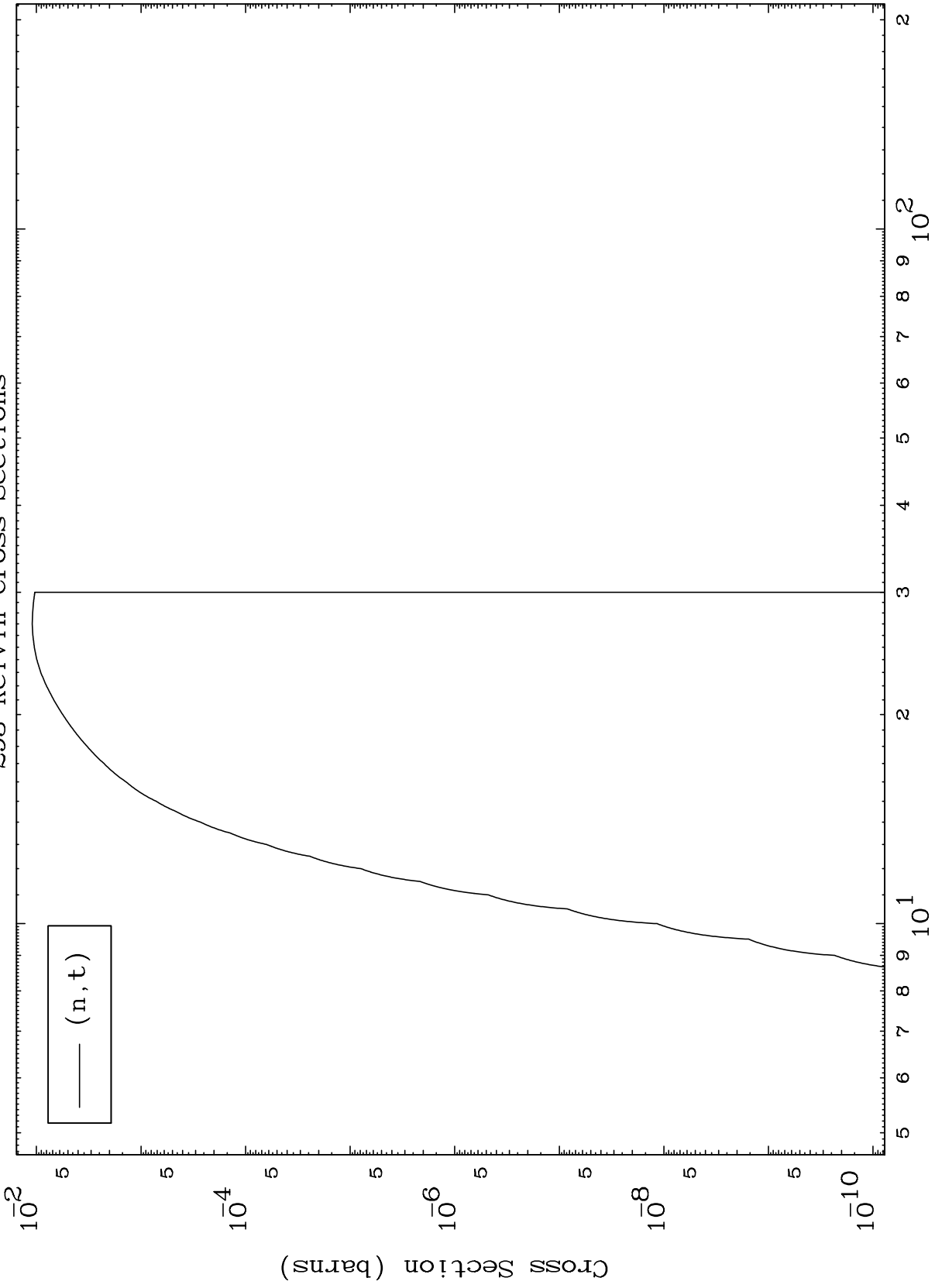
Incident Energy (MeV)

60-Nd-143

MAT 6028

60-Nd-143

(n,t) Levels
293 Kelvin Cross Sections



13

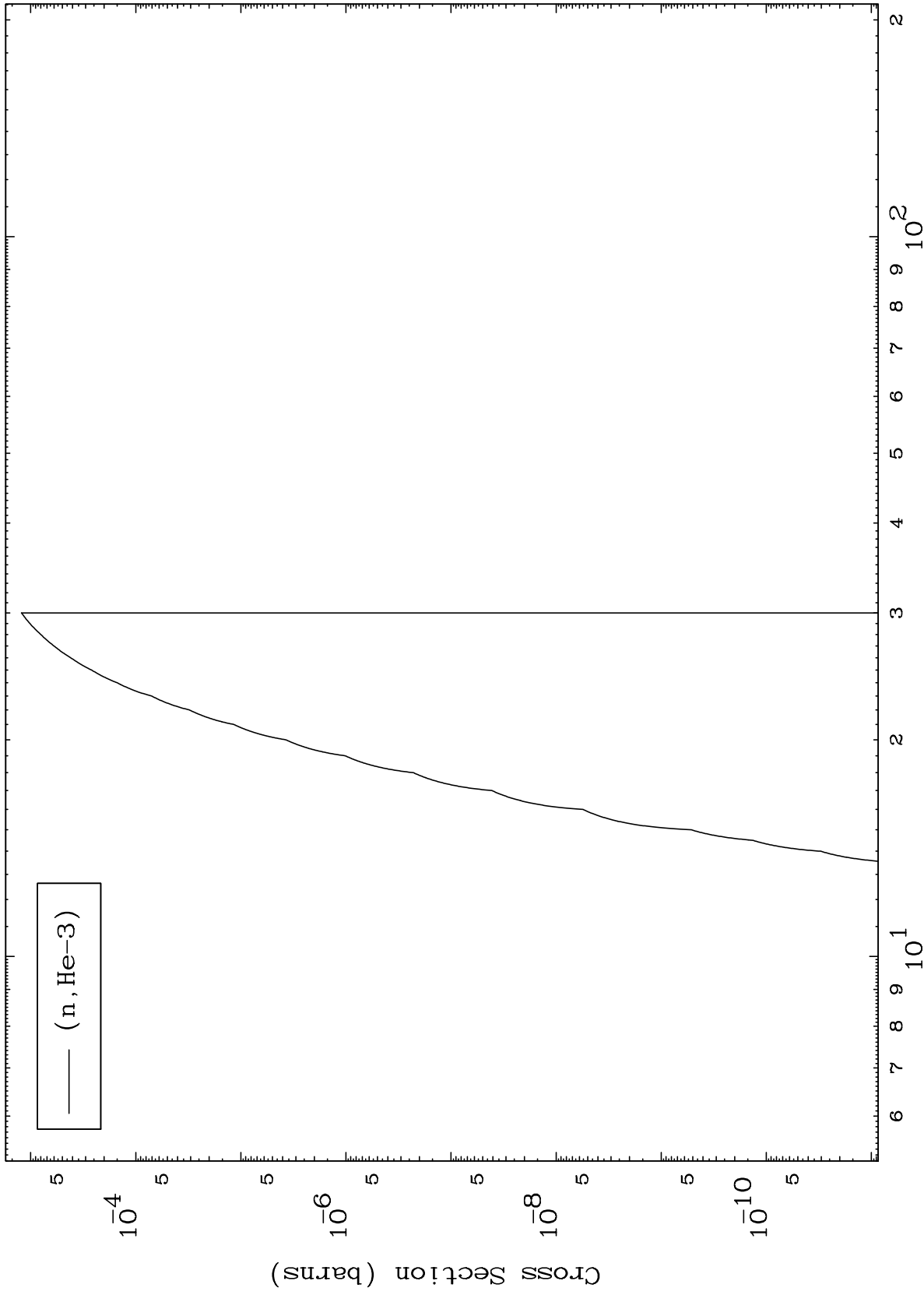
Incident Energy (MeV)

60-Nd-143

MAT 6028

60-Nd-143

(n,He3) Levels
293 Kelvin Cross Sections



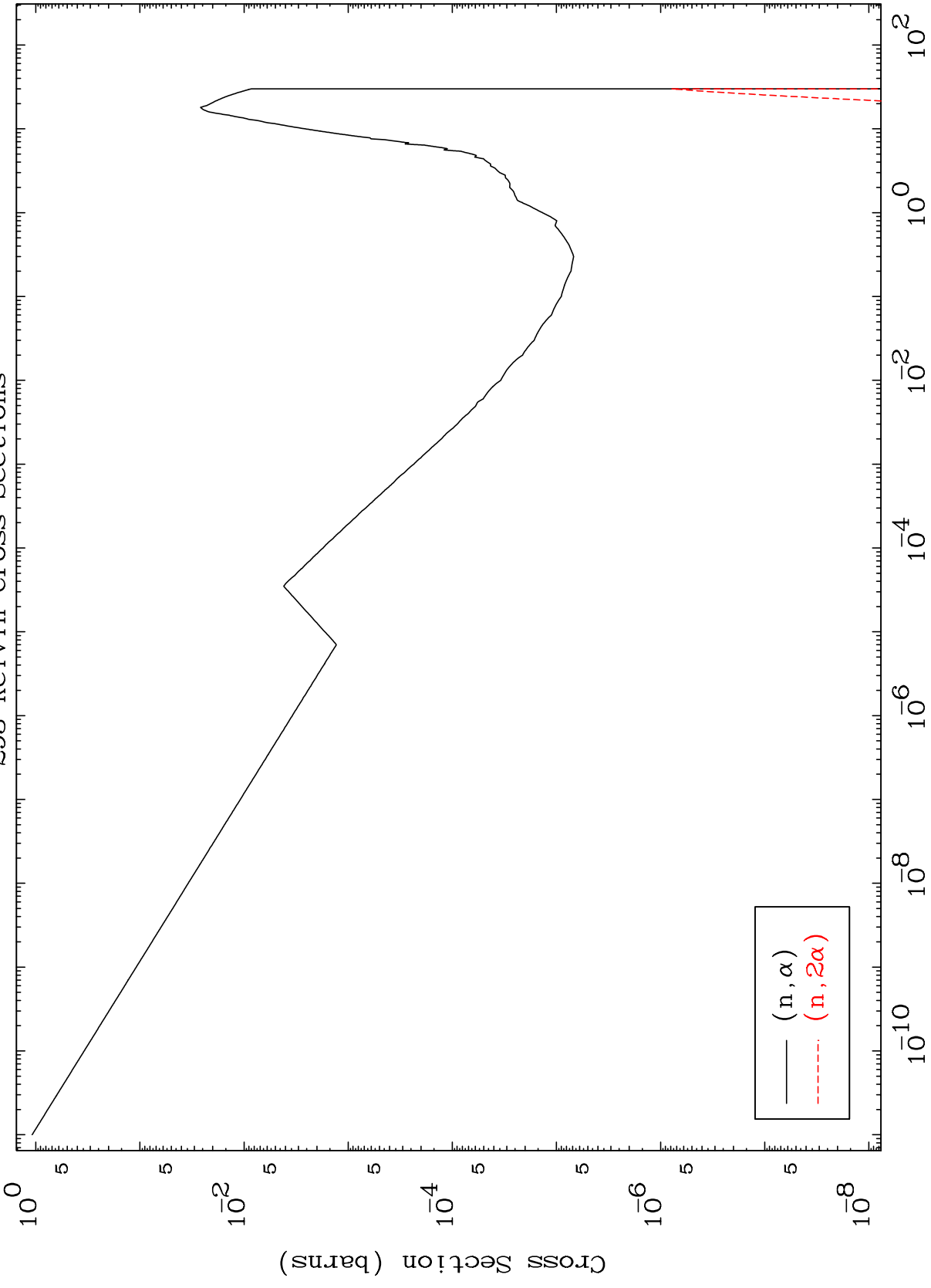
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60-Nd-143

MAT 6028

(n,α) Levels
293 Kelvin Cross Sections

60-Nd-143



15

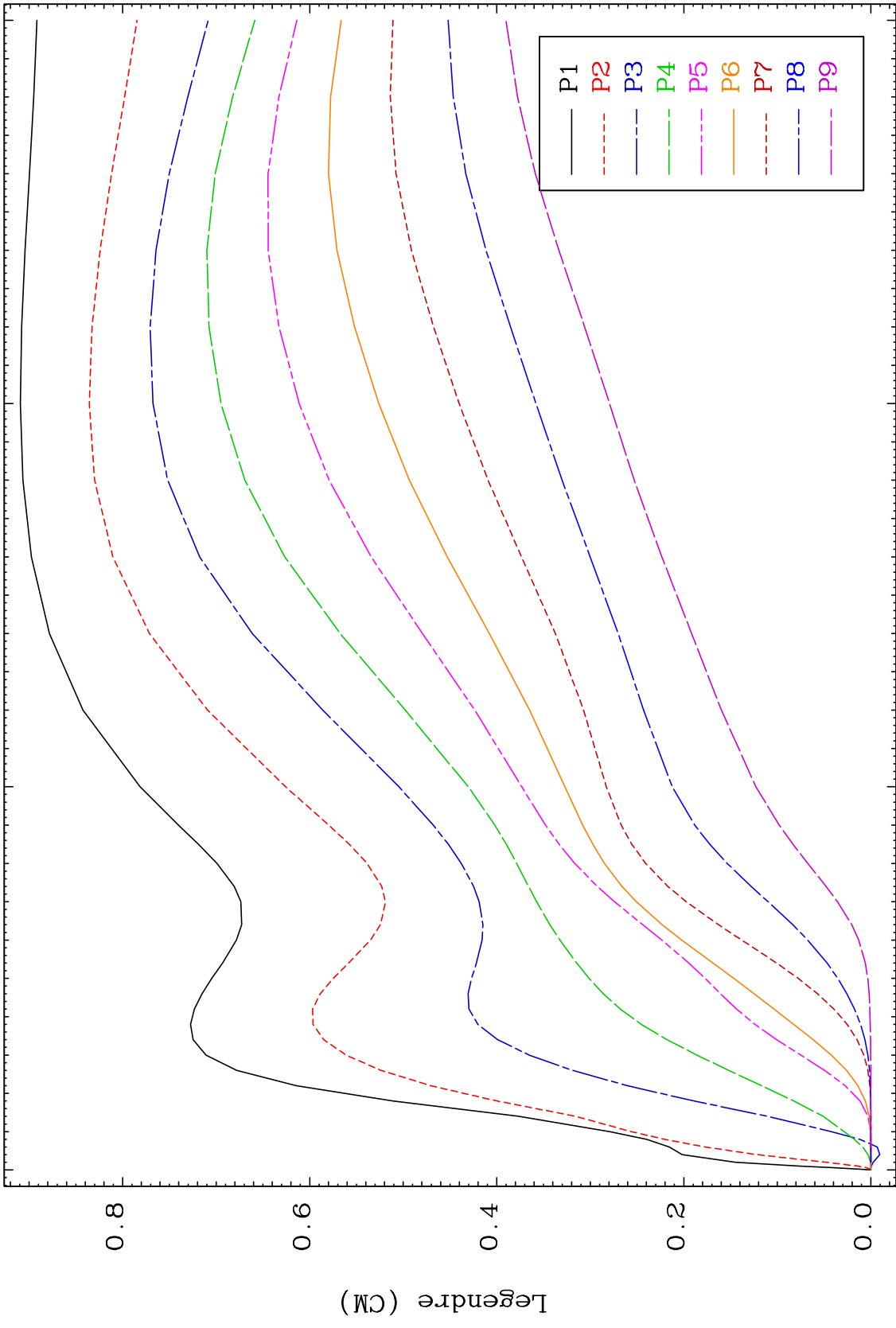
Incident Energy (MeV)

60-Nd-143

MAT 6028

Elastic Legendre Coefficients

60-Nd-143



16

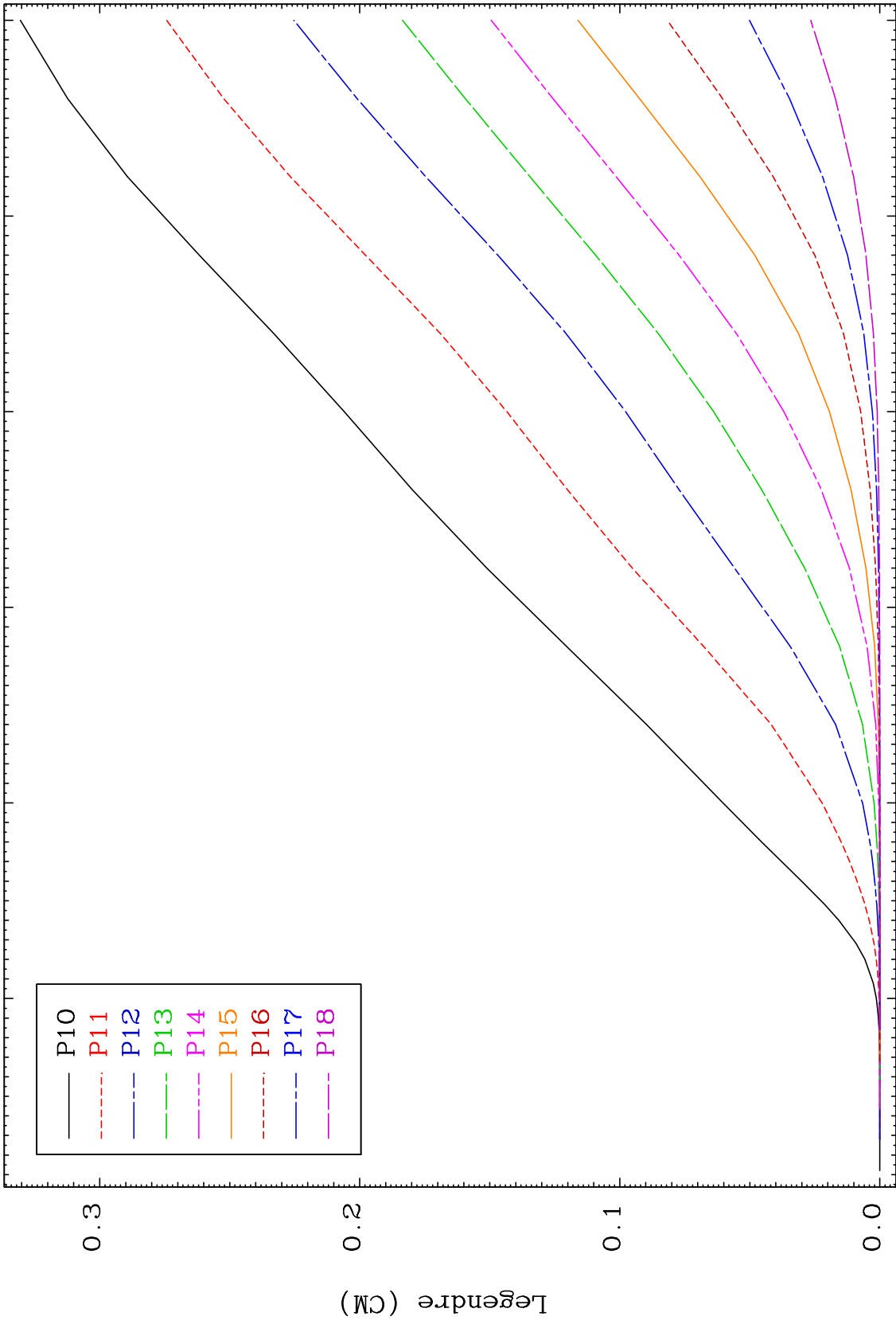
Incident Energy (MeV)

60-Nd-143

MAT 6028

Elastic Legendre Coefficients

60-Nd-143



17

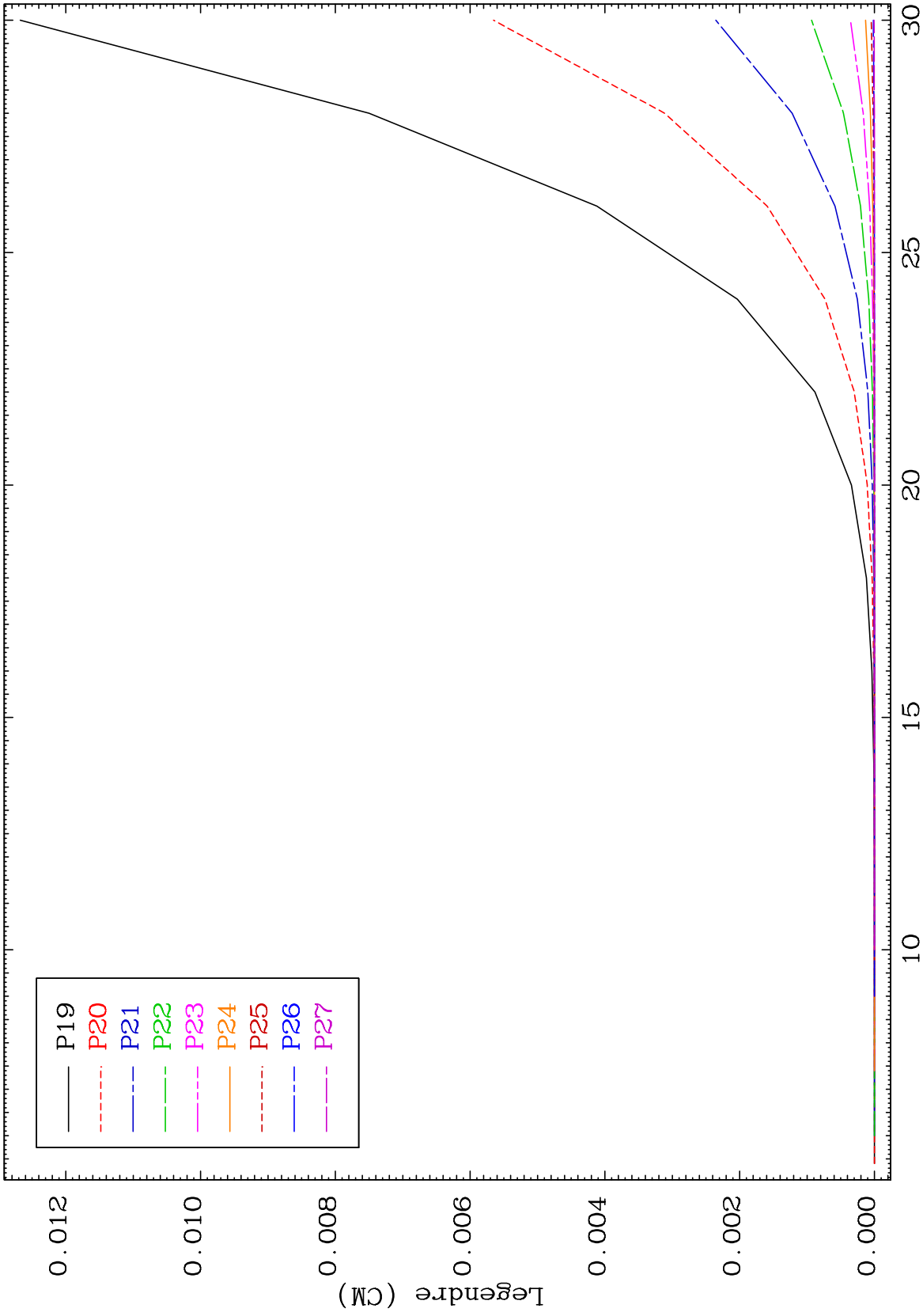
Incident Energy (MeV)

60-Nd-143

MAT 6028

Elastic Legendre Coefficients

60-Nd-143



18

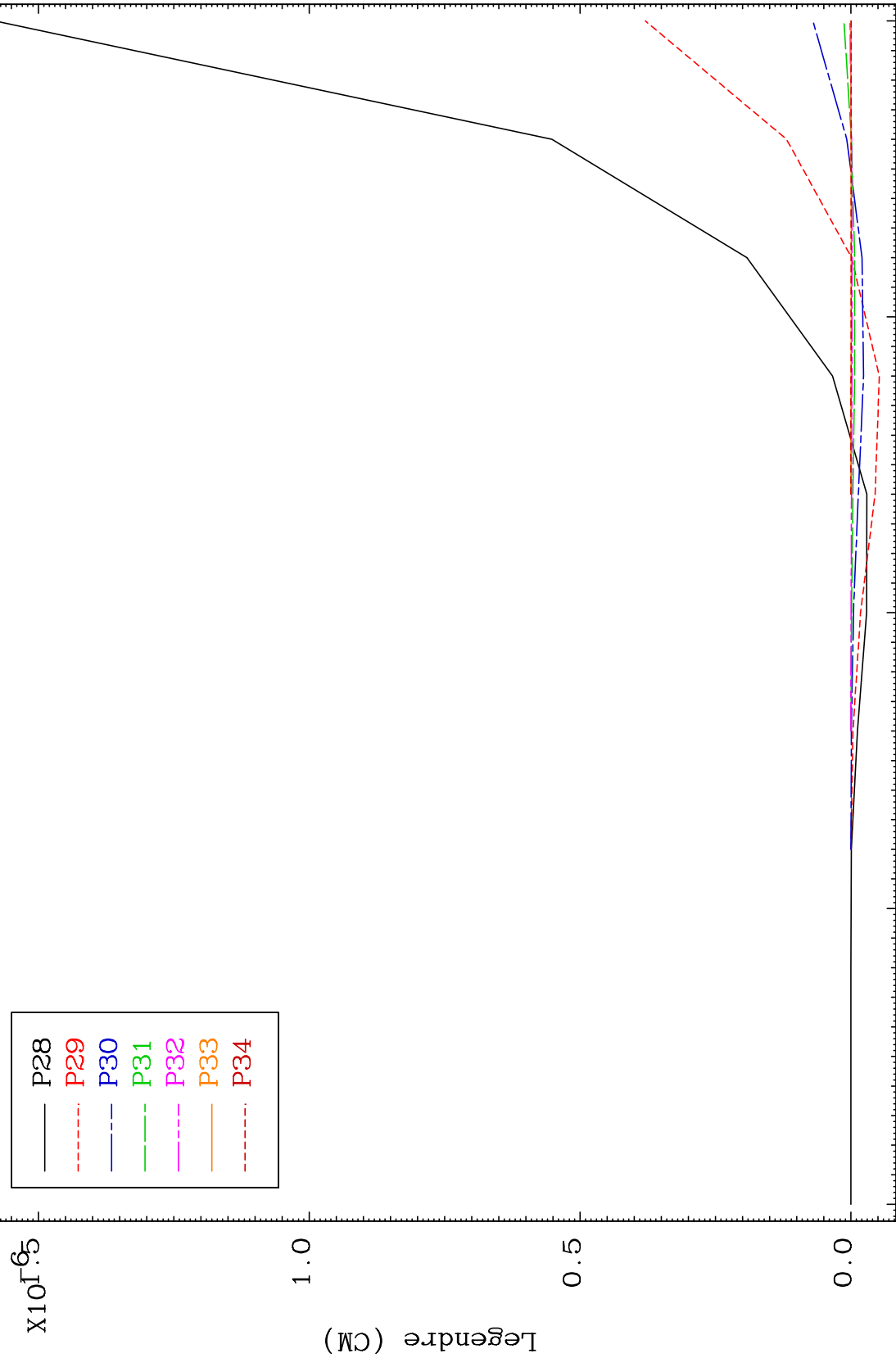
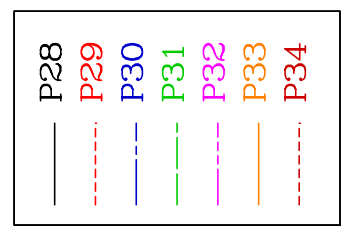
Incident Energy (MeV)

60-Nd-143

MAT 6028

Elastic
Legendre Coefficients

60-Nd-143



19

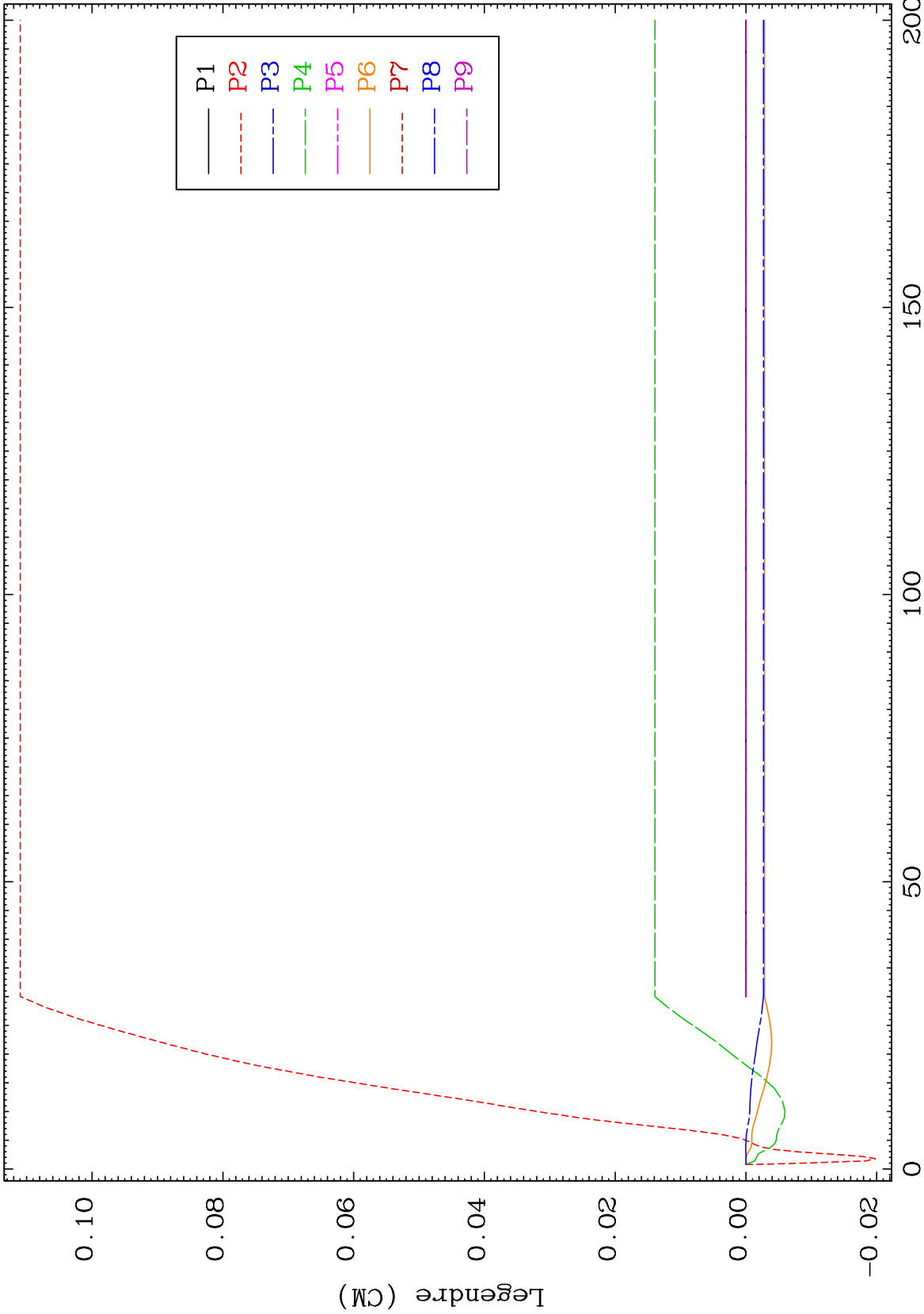
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143



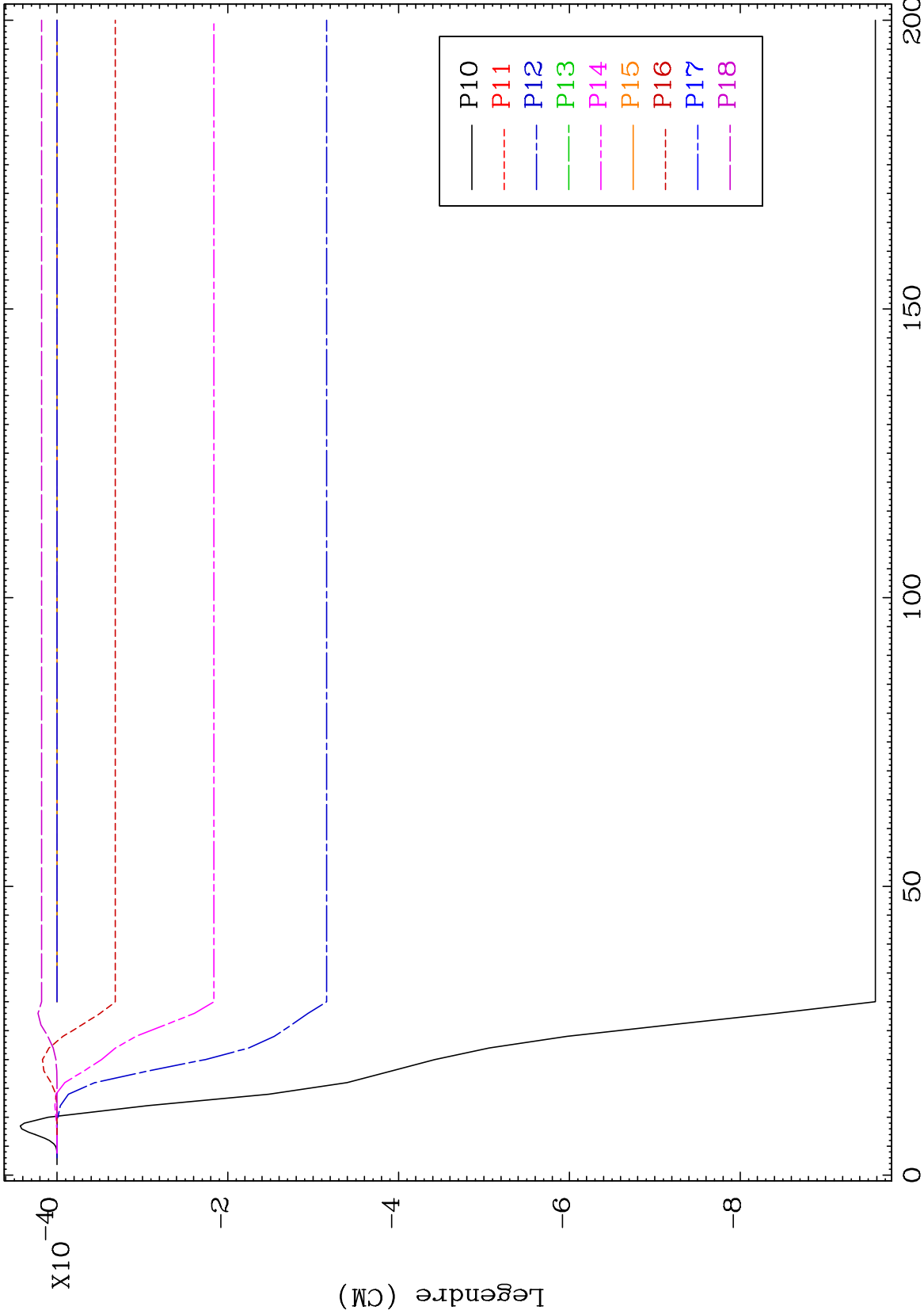
60-Nd-143

Incident Energy (MeV)

MAT 6028

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

60-Nd-143

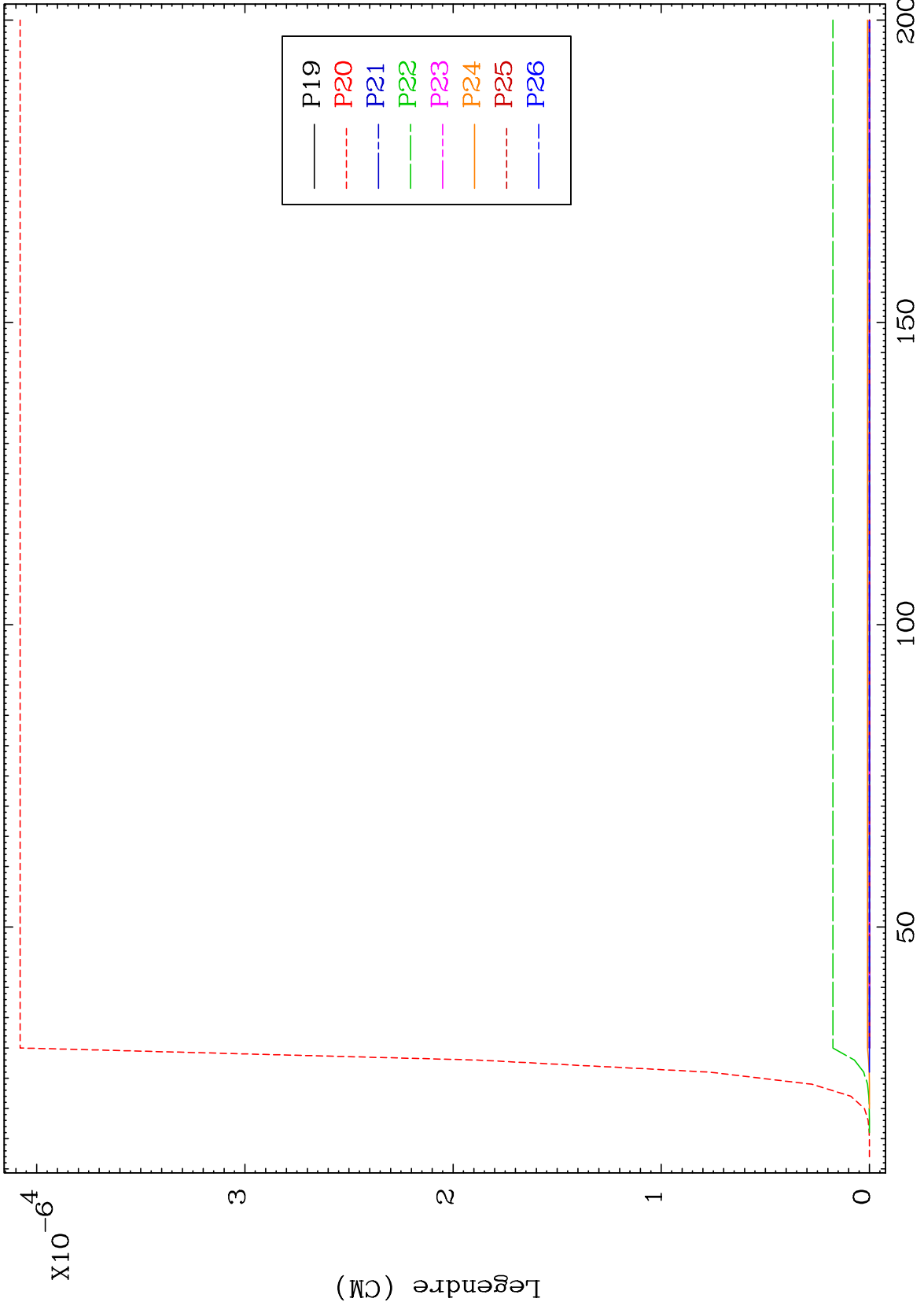


21

Incident Energy (MeV)

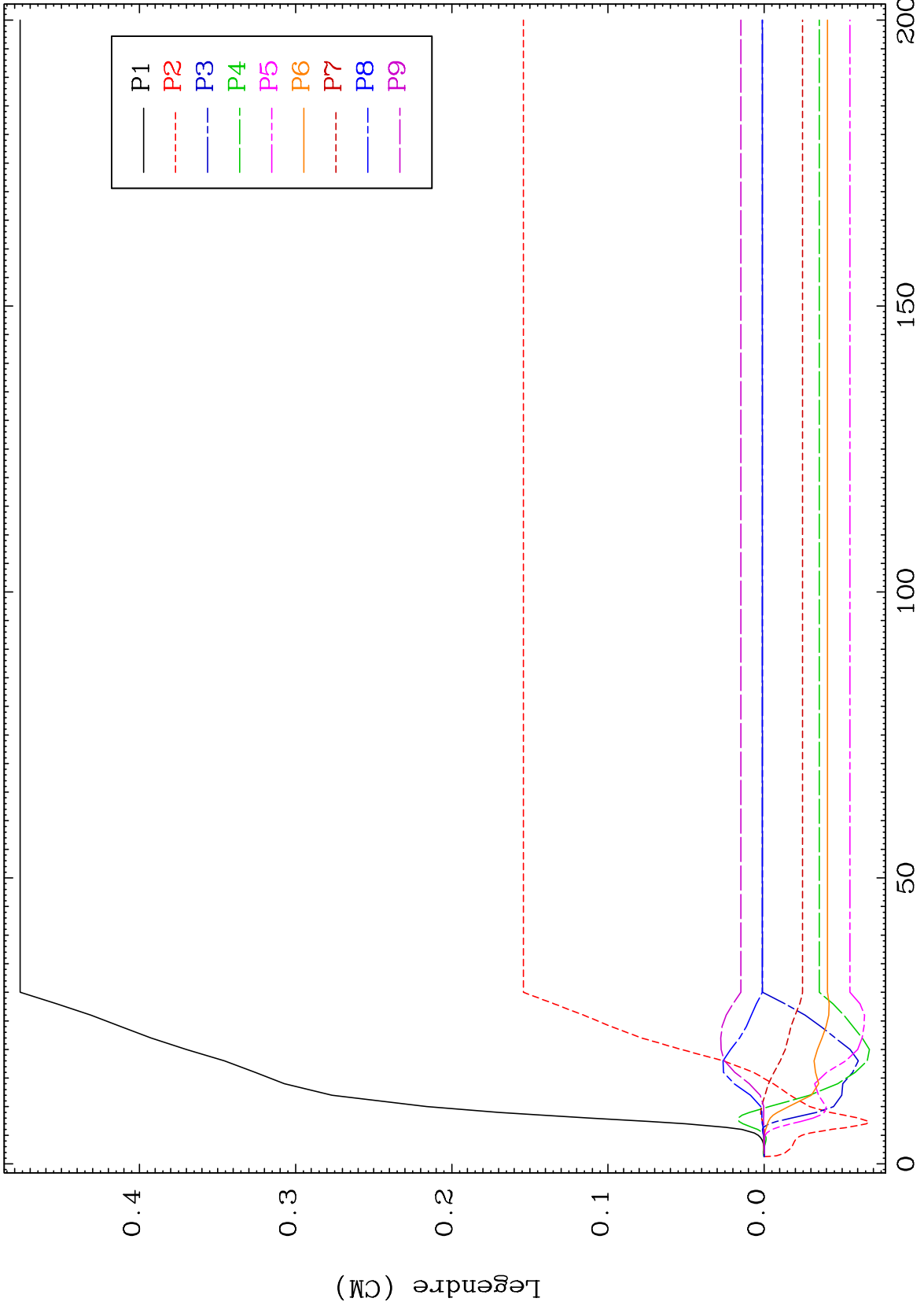
60-Nd-143

MAT 6028 MT= 51 (n,n') Level Legendre Coefficients 60-Nd-143



22 Incident Energy (MeV) 60-Nd-143

MAT 6028 MT= 52 (n,n') Level Legendre Coefficients 60-Nd-143

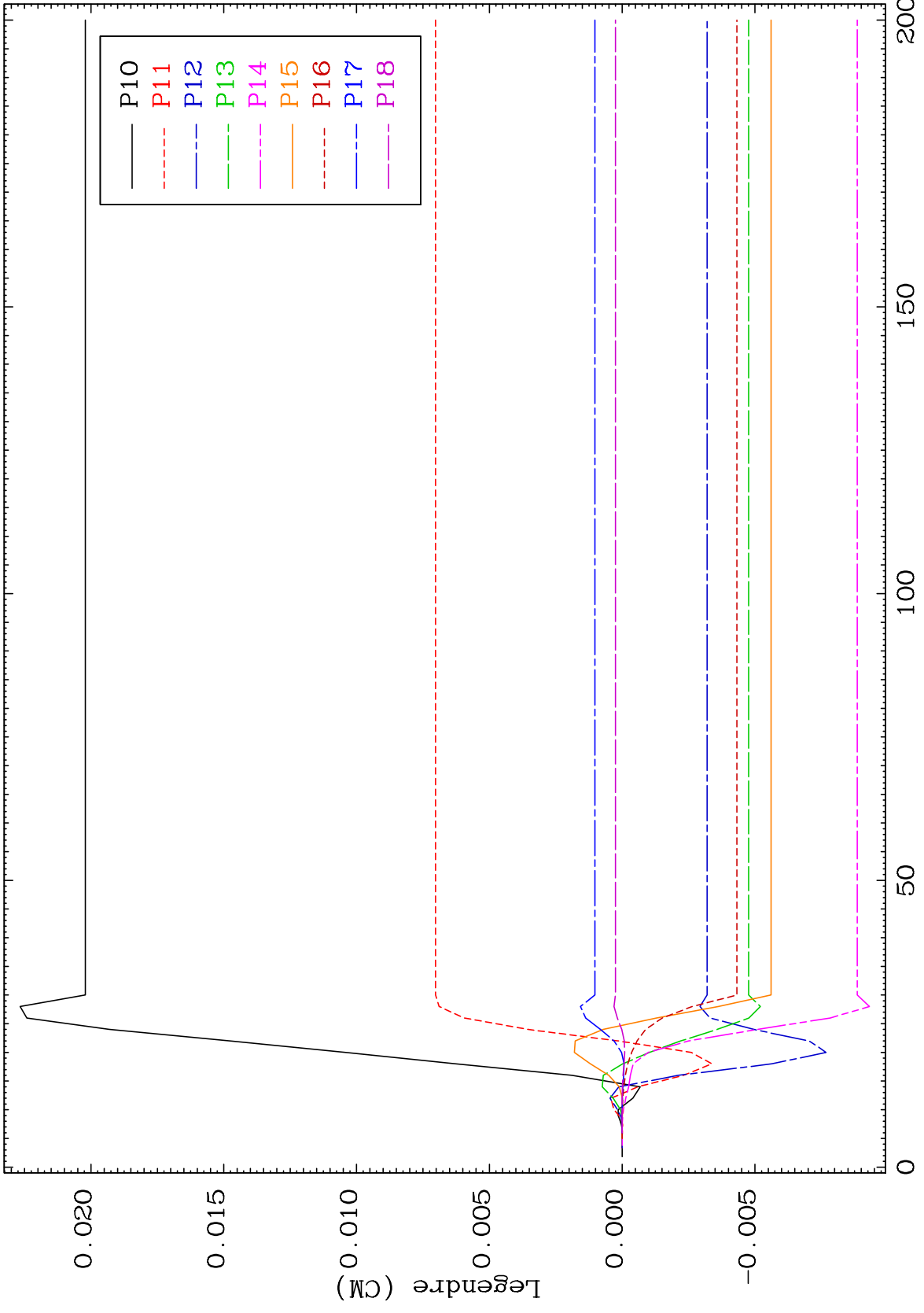


23 60-Nd-143

MAT 6028

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

60-Nd-143



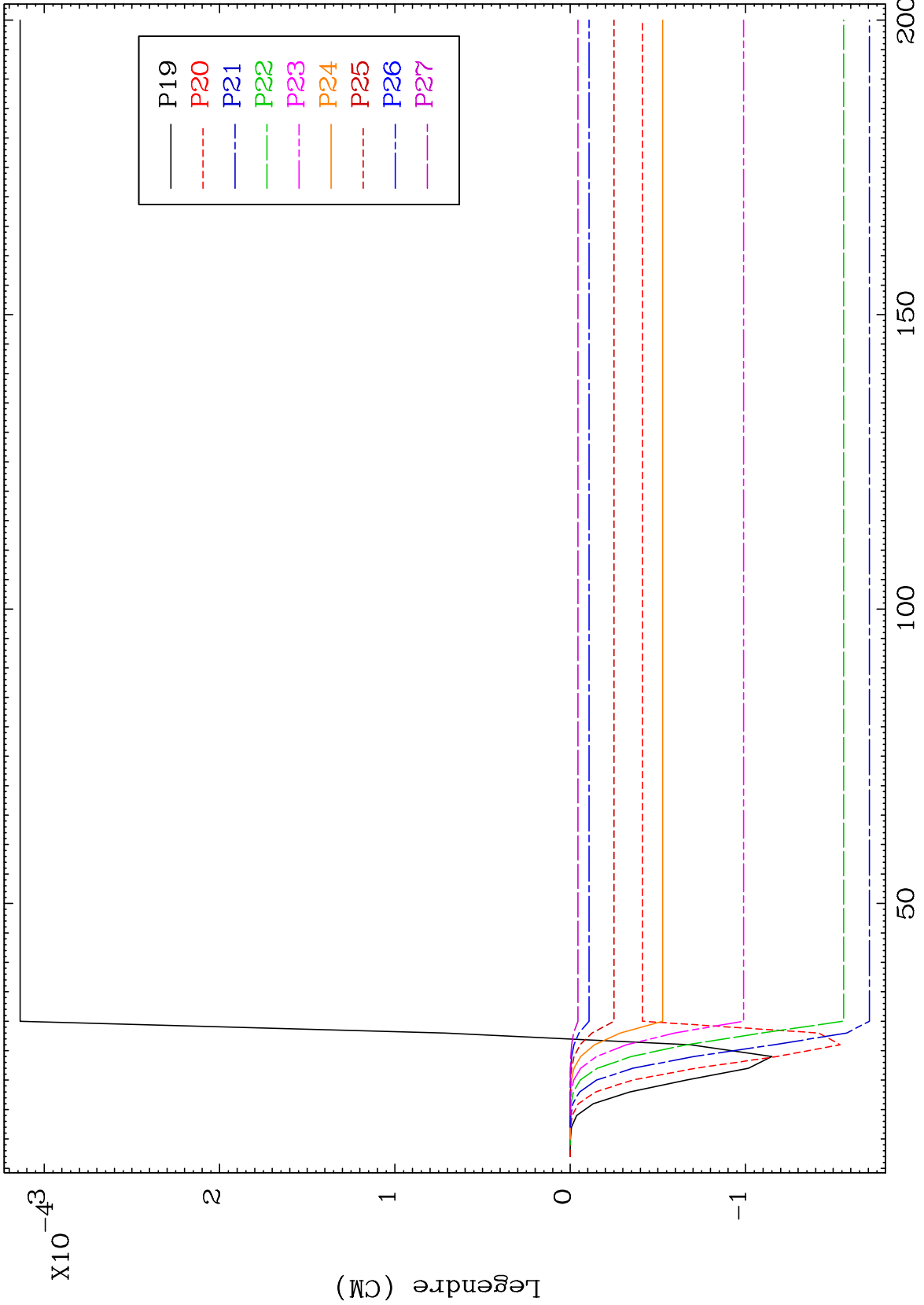
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60-Nd-143

MAT 6028

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

60-Nd-143



25

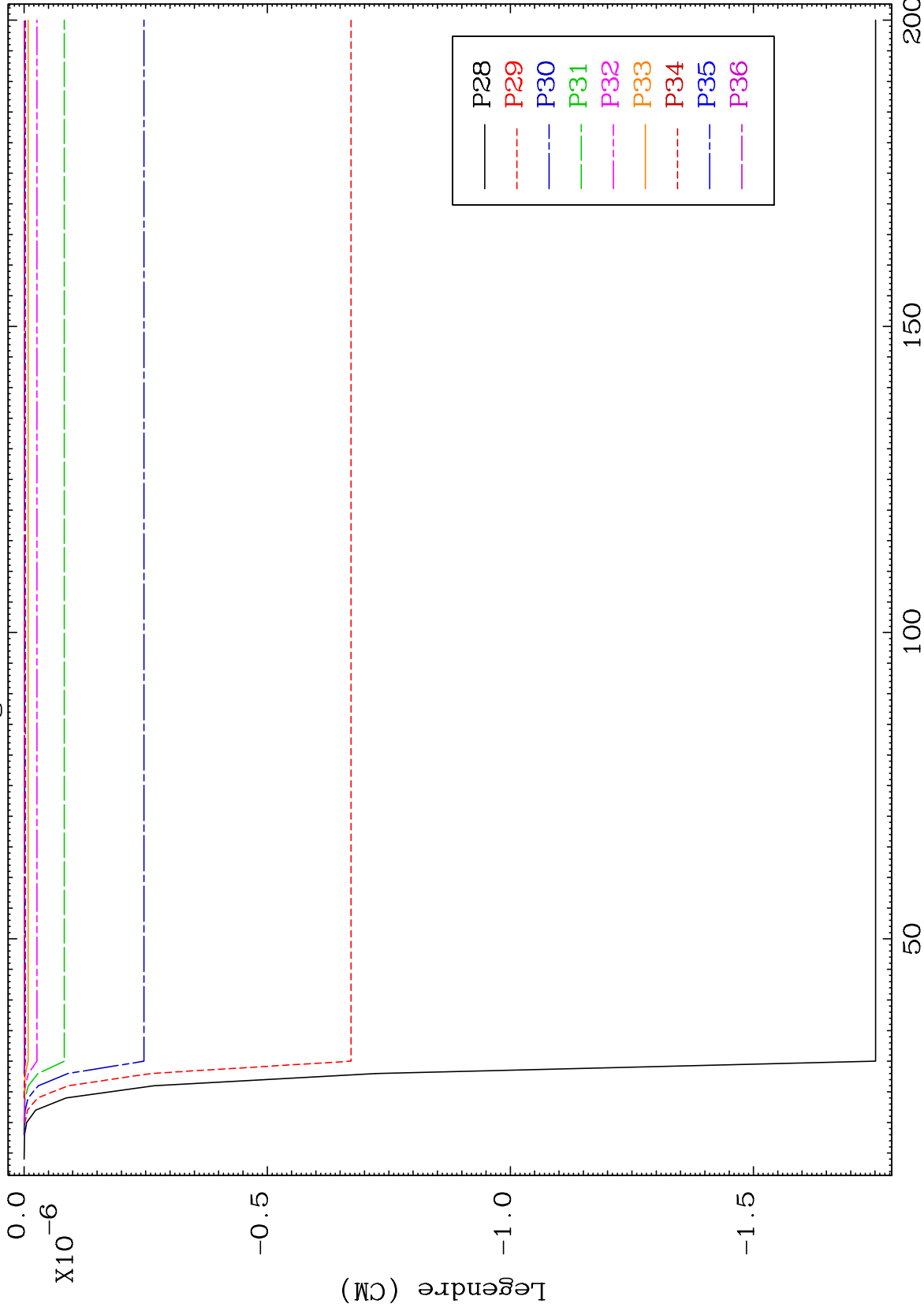
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143



60-Nd-143

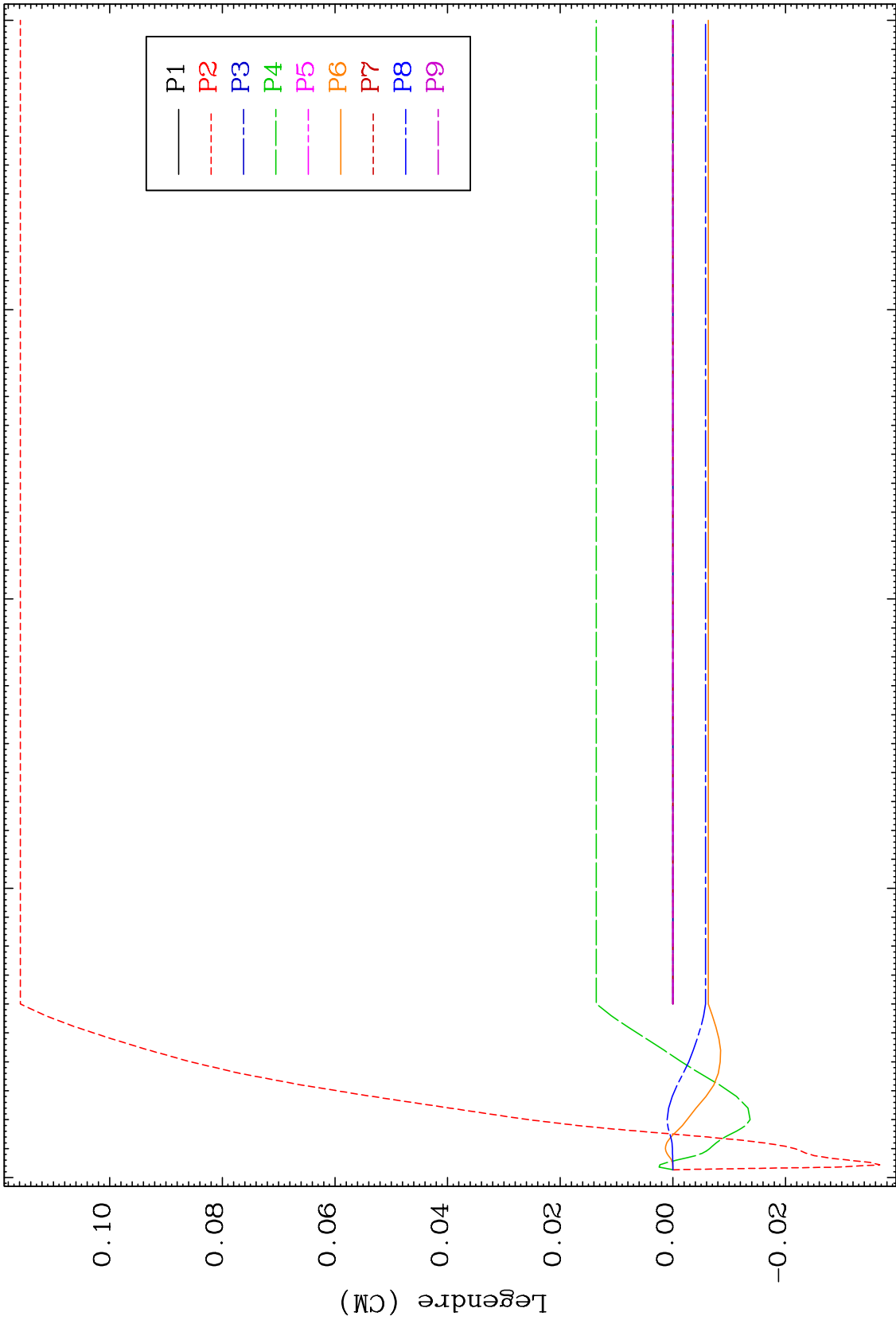
Incident Energy (MeV)

26

MAT 6028

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

60-Nd-143



27

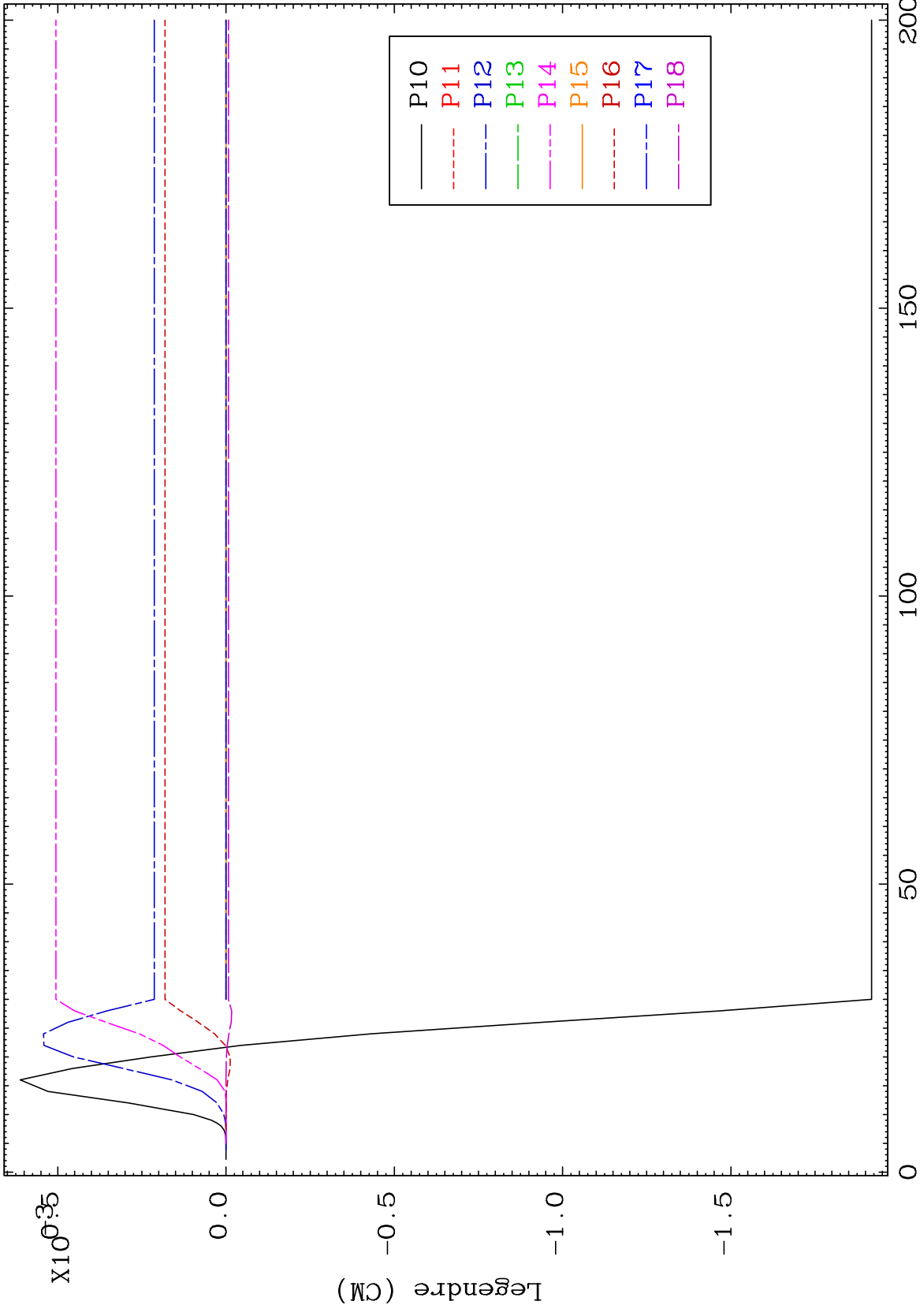
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143

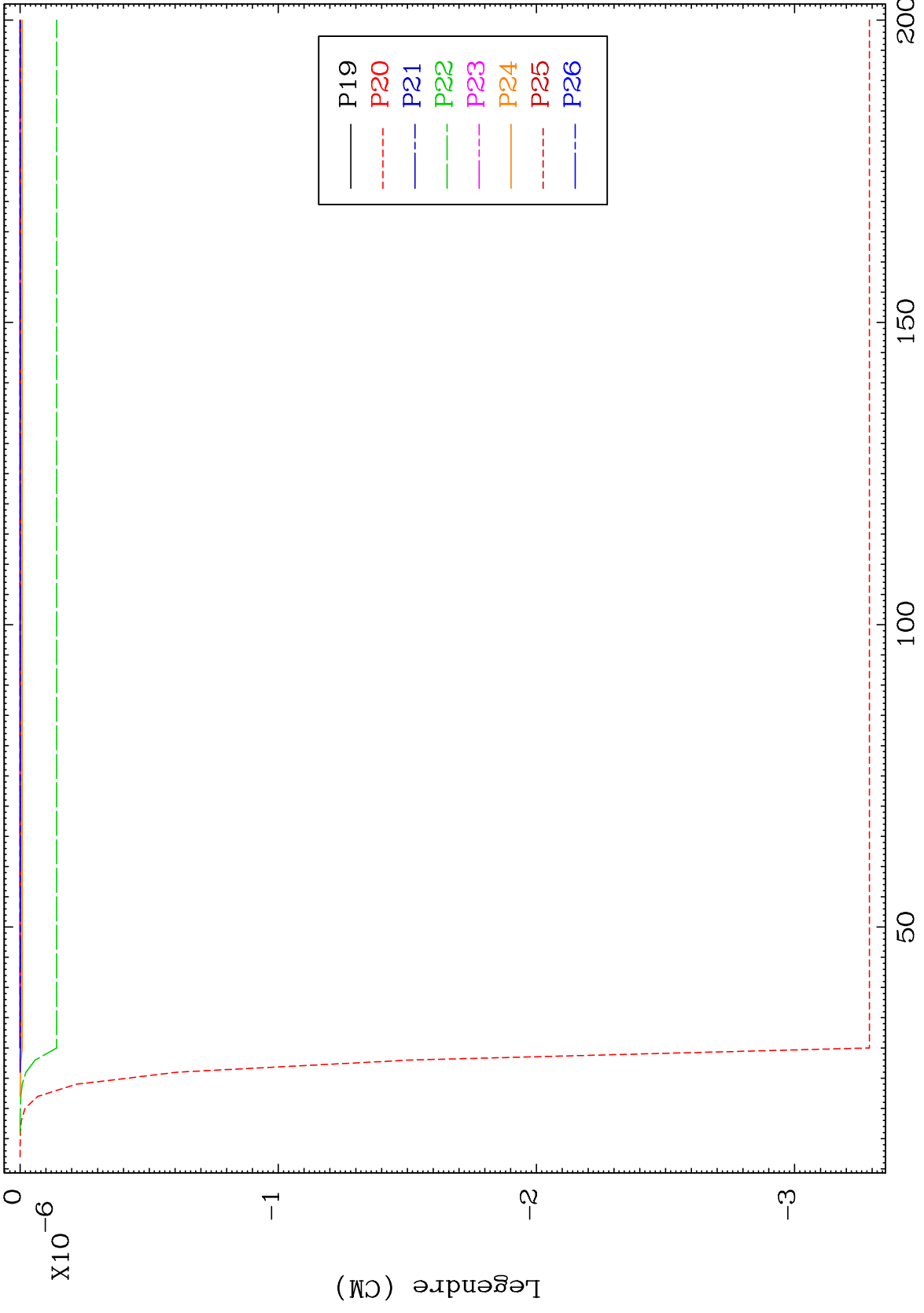


28

Incident Energy (MeV)

60-Nd-143

MAT 6028 MT= 53 (n,n') Level Legendre Coefficients 60-Nd-143

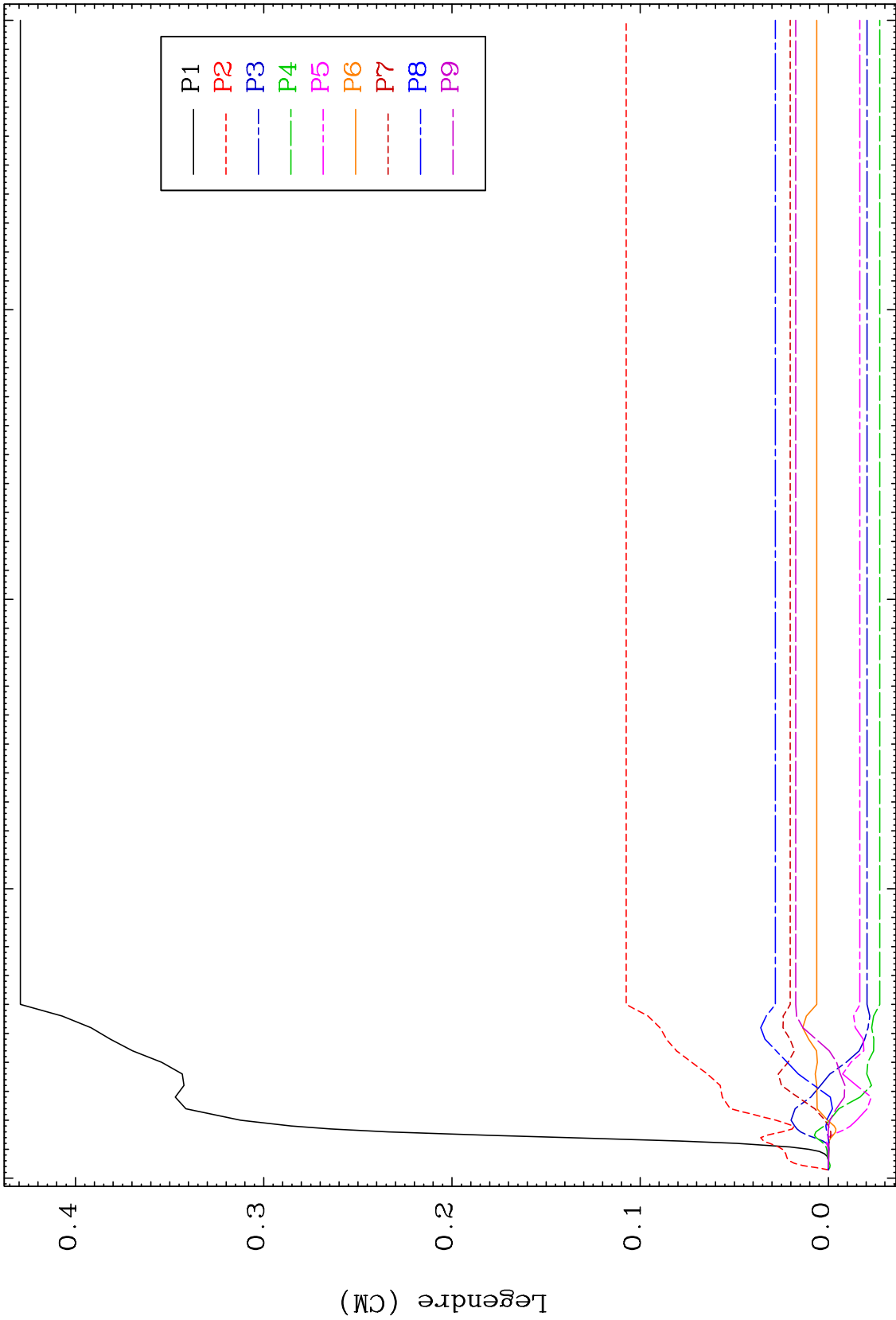


29 Incident Energy (MeV) 60-Nd-143

MAT 6028

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

60-Nd-143



60-Nd-143

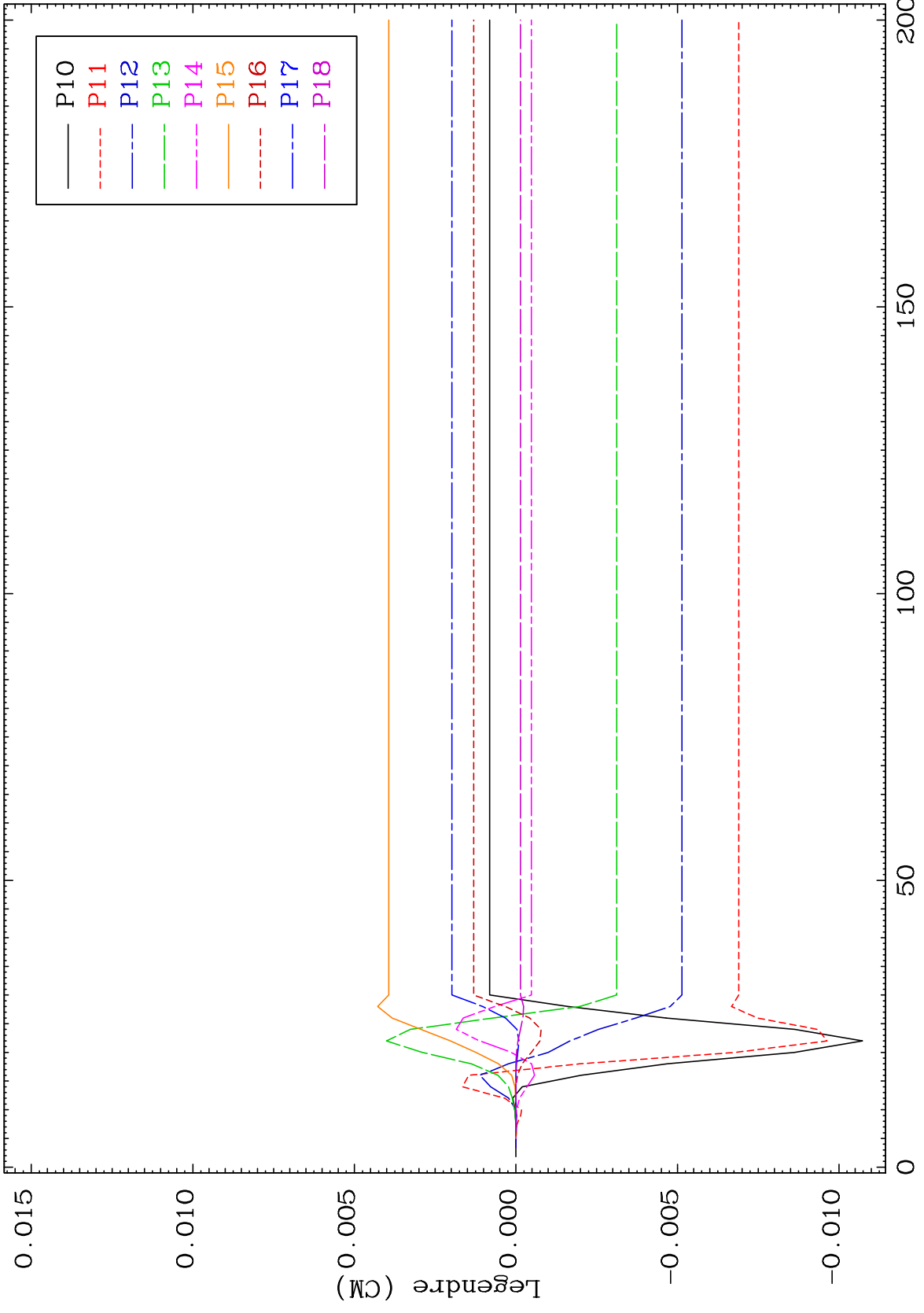
Incident Energy (MeV)

30

MAT 6028

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

60-Nd-143



31

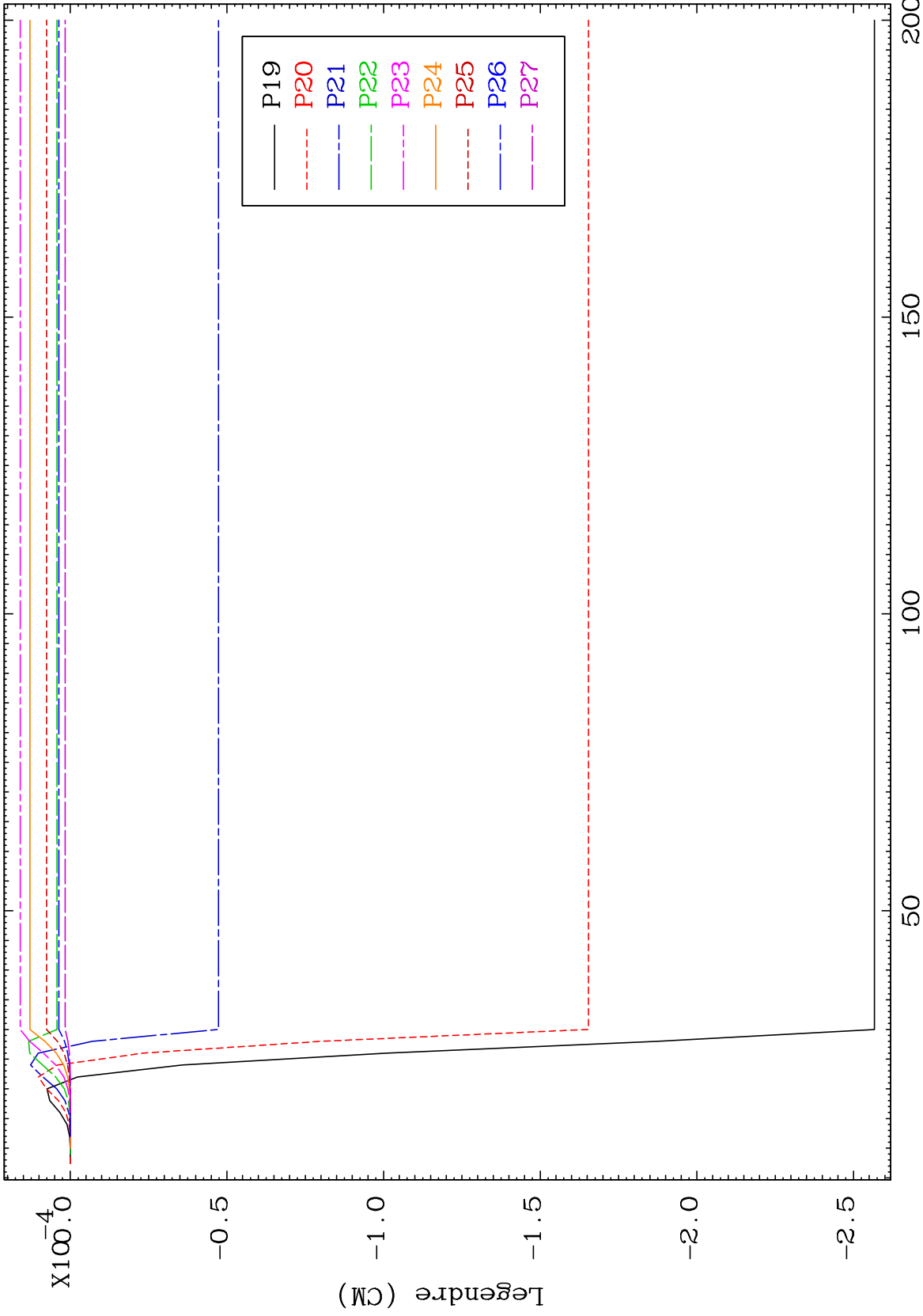
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143



60-Nd-143

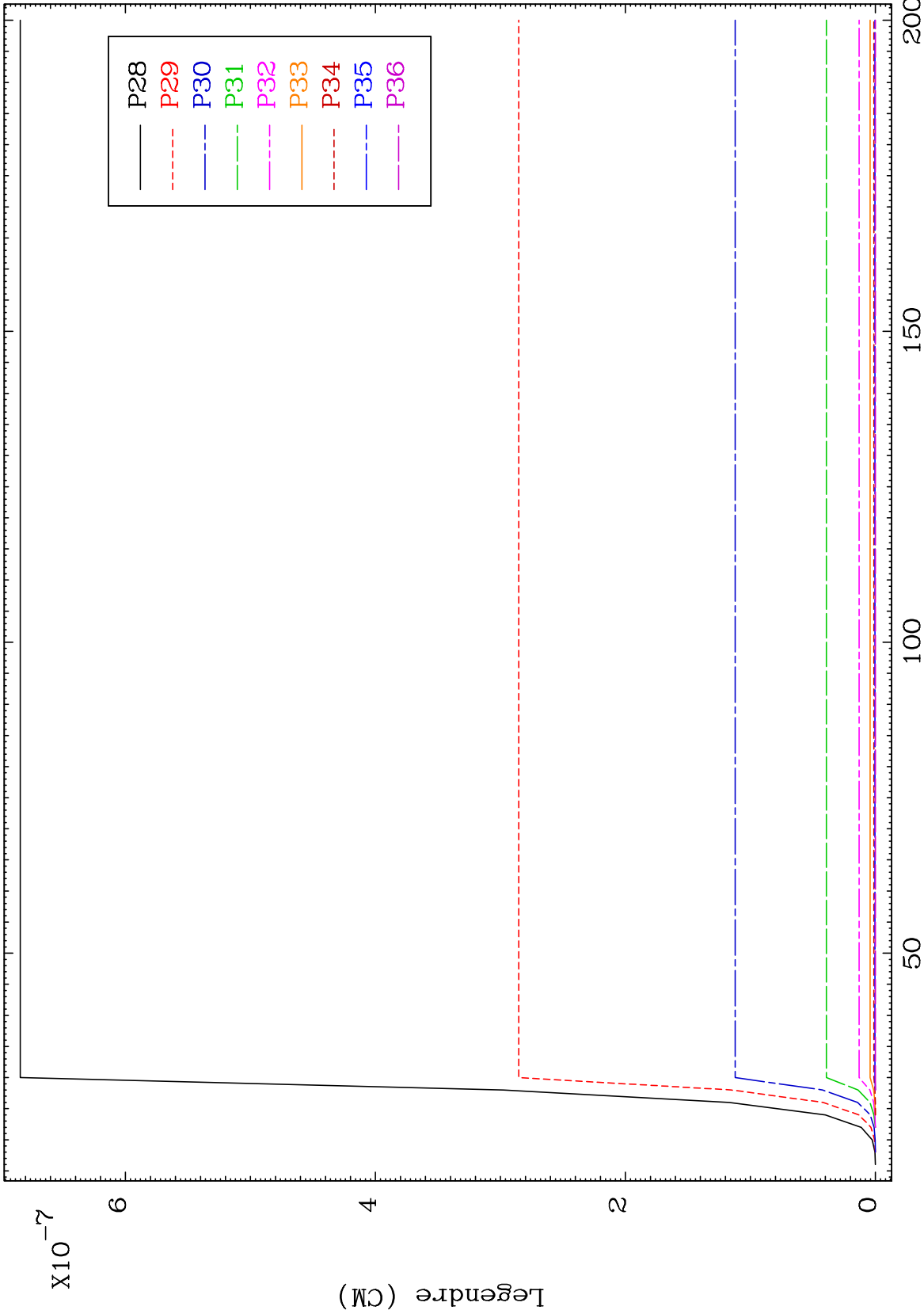
Incident Energy (MeV)

32

MAT 6028

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

60-Nd-143

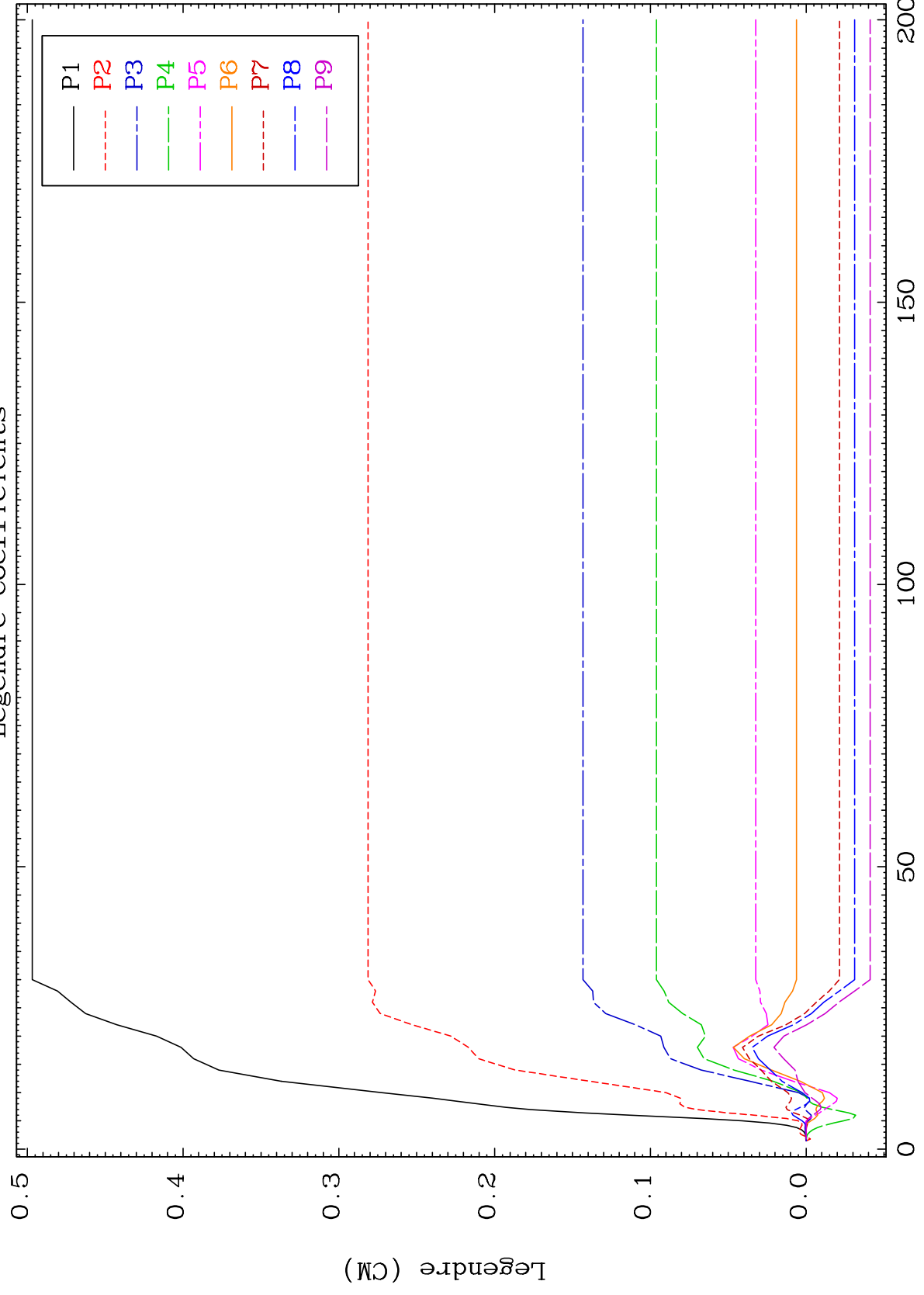


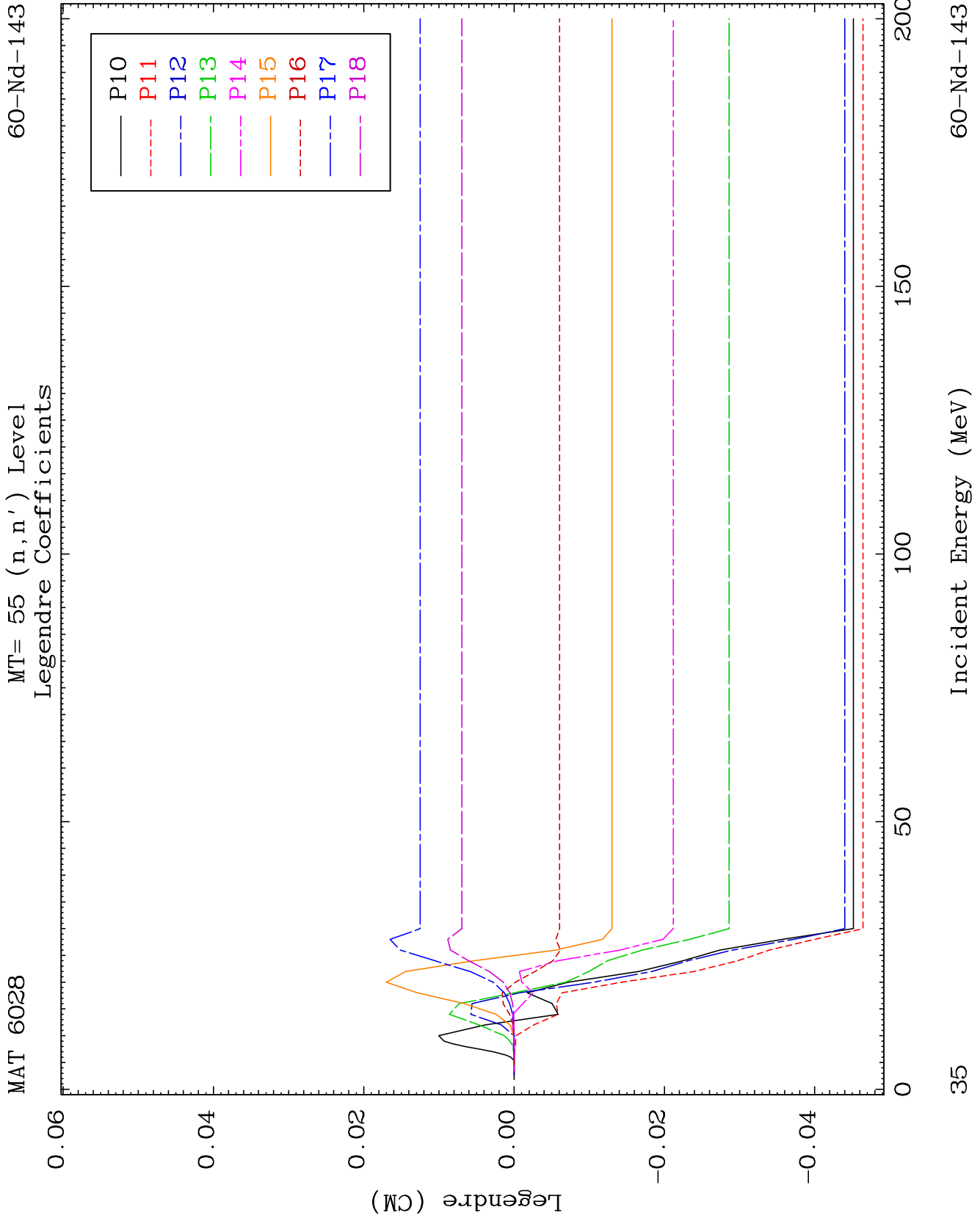
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Incident Energy (MeV)

60-Nd-143

MAT 6028 MT= 55 (n,n') Level Legendre Coefficients 60-Nd-143

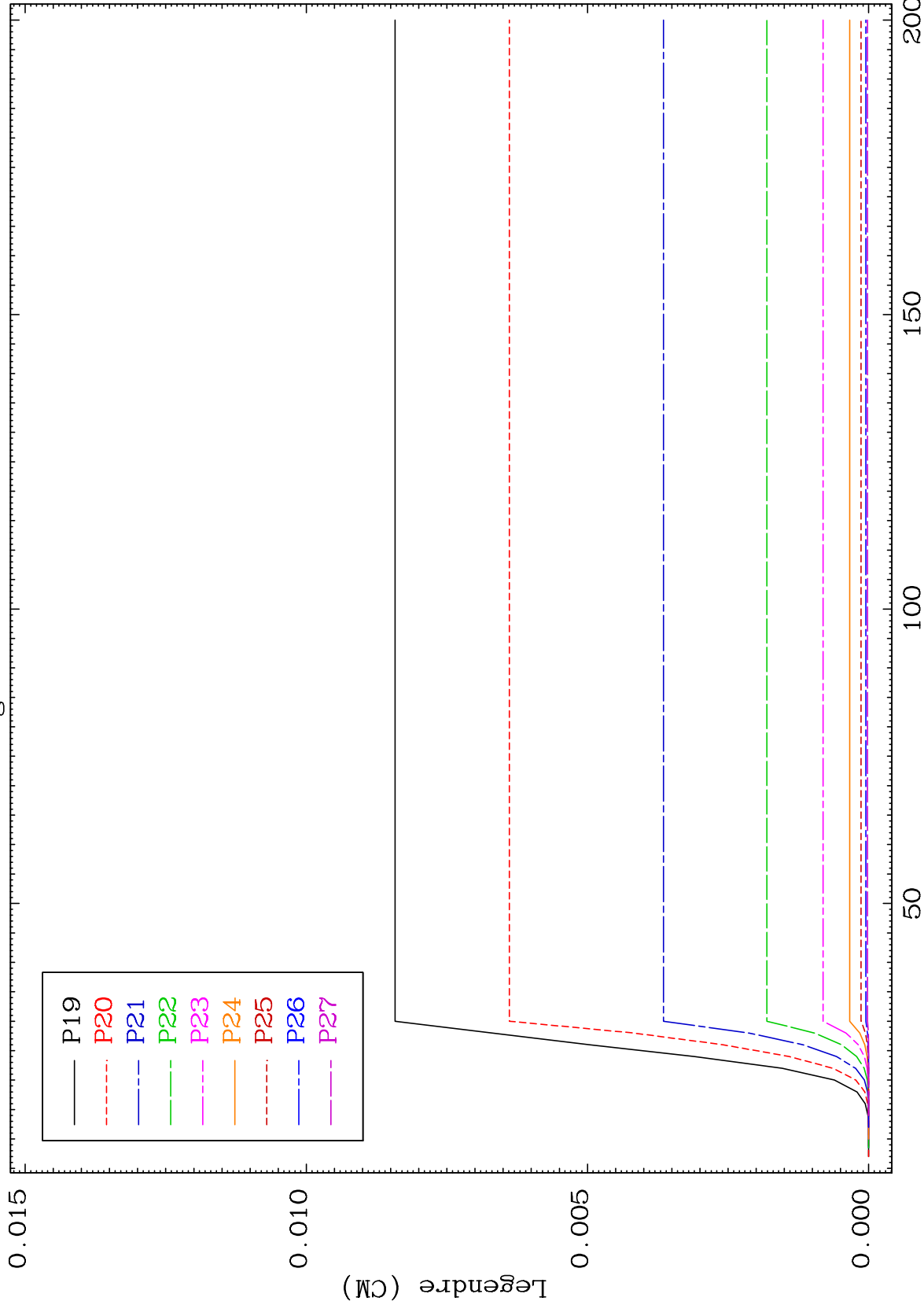




MAT 6028

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

60-Nd-143



36

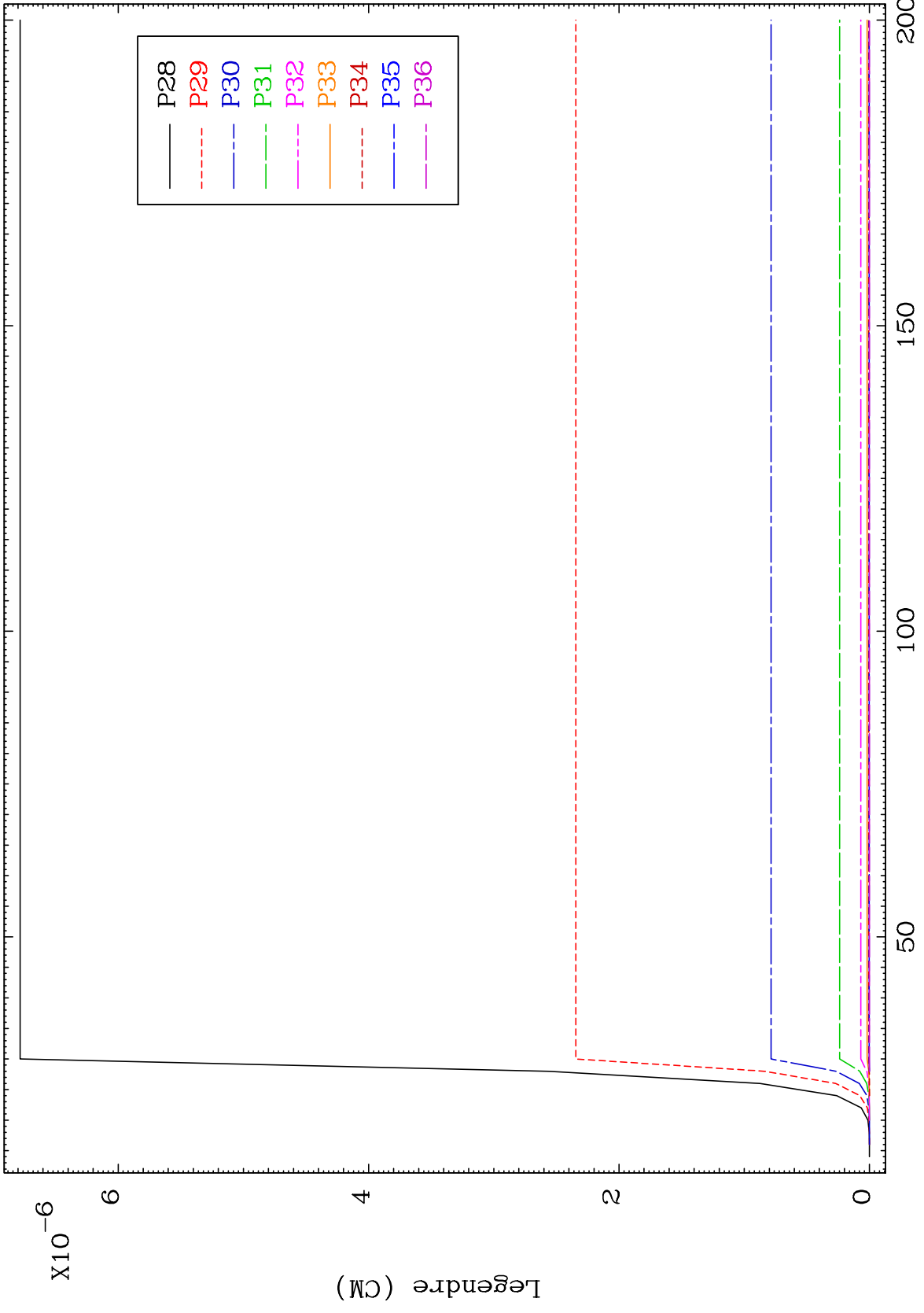
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

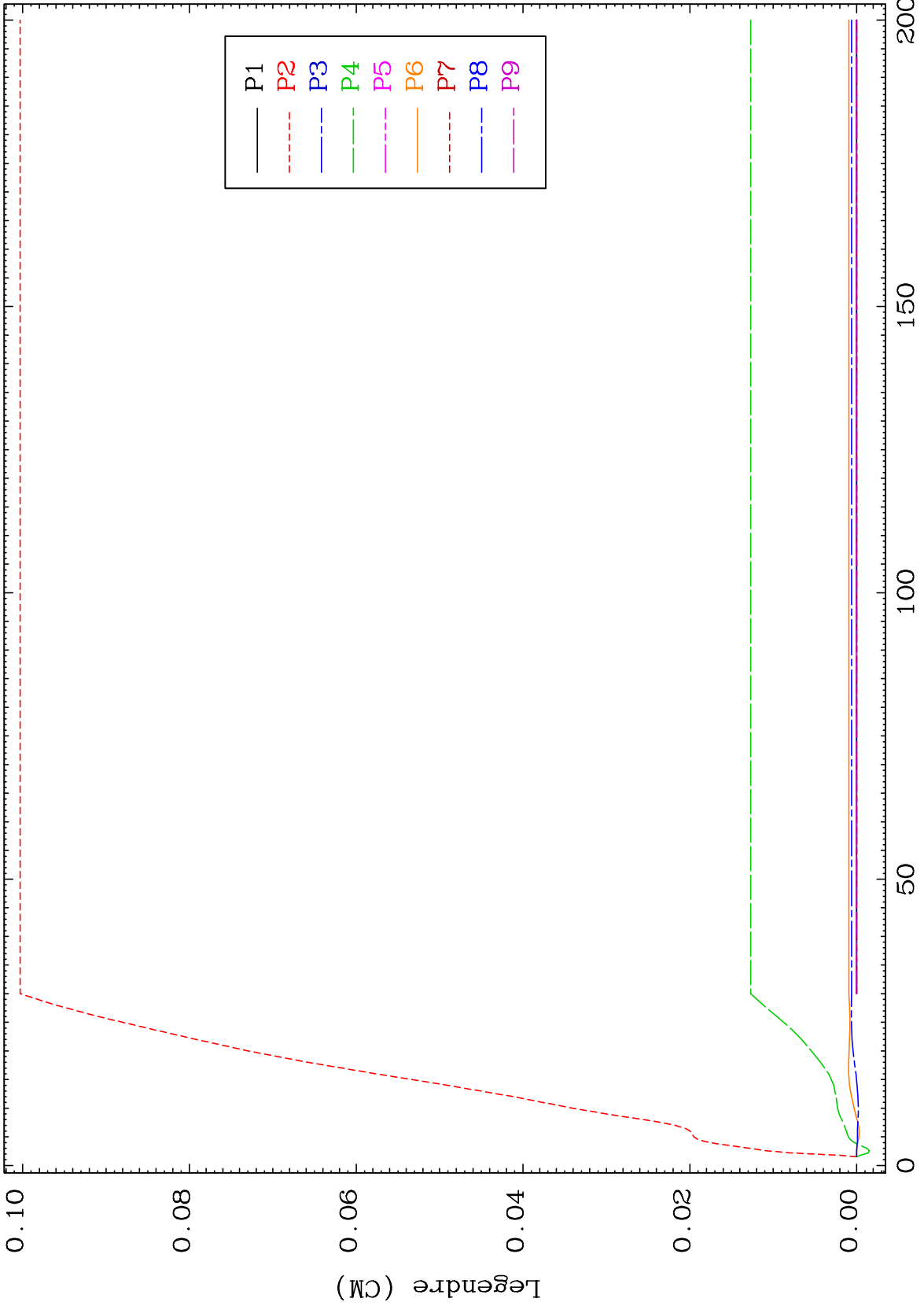
60-Nd-143



37

60-Nd-143

MAT 6028 MT= 56 (n,n') Level Legendre Coefficients 60-Nd-143

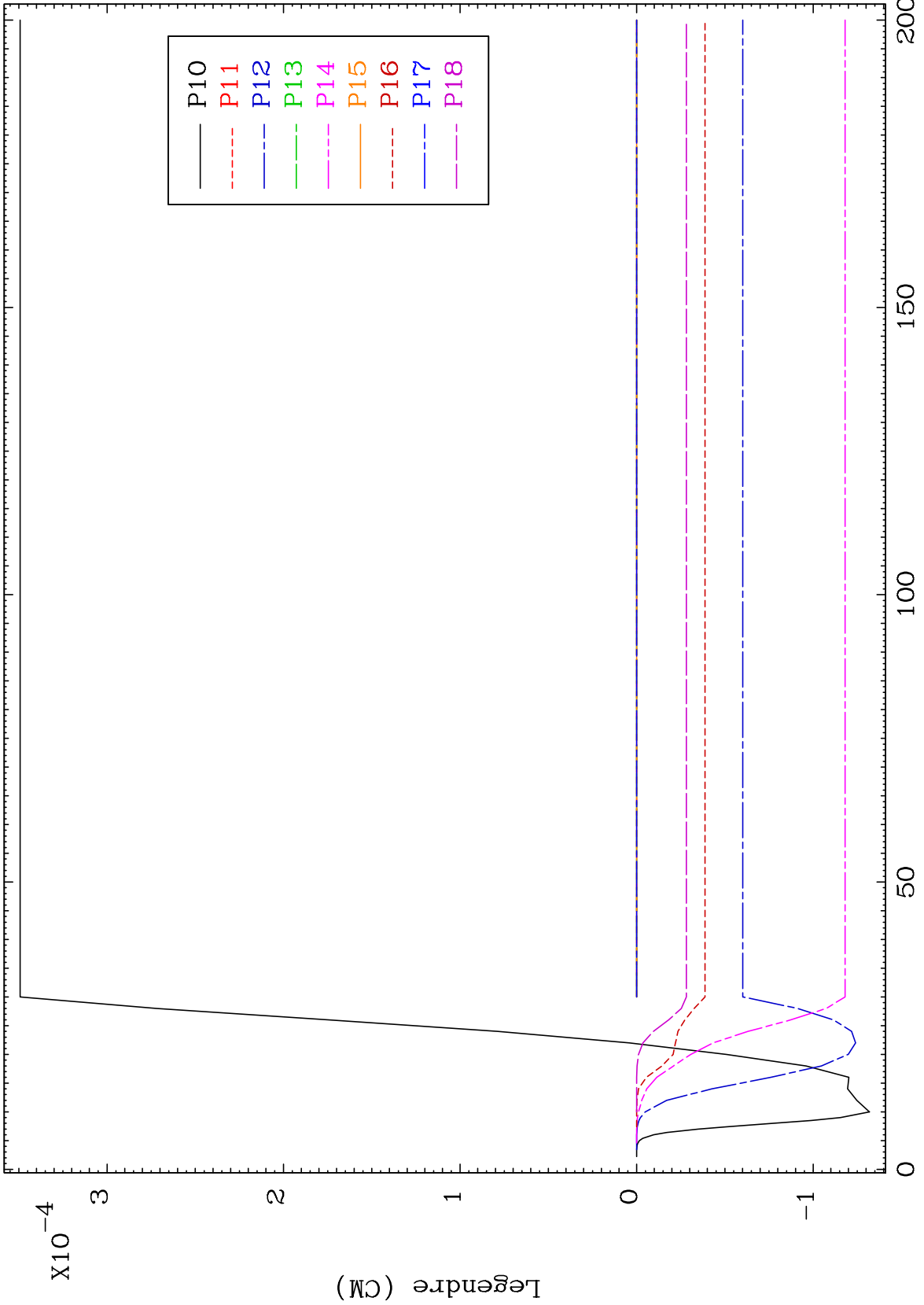


38 Incident Energy (MeV) 60-Nd-143

MAT 6028

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

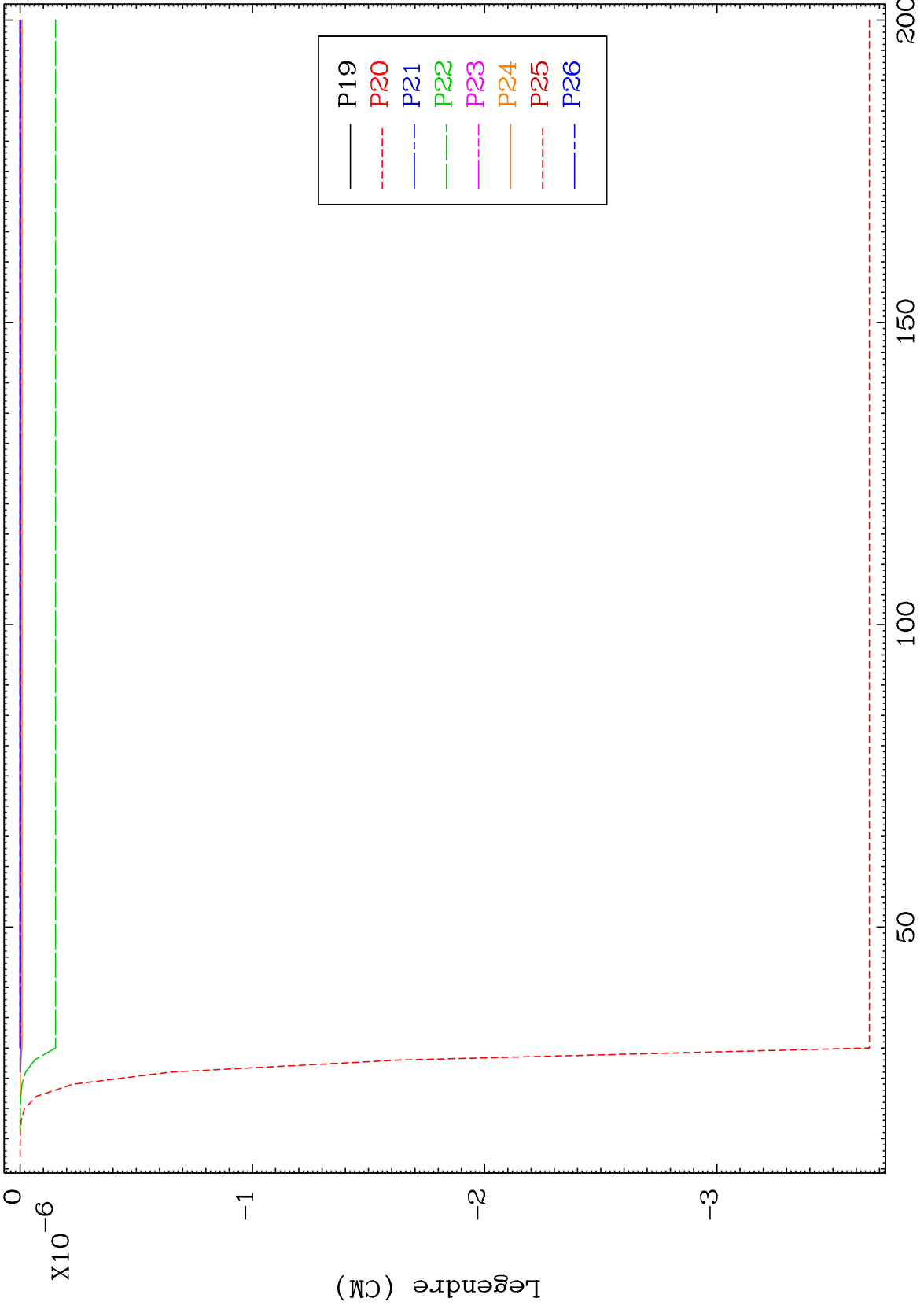
60-Nd-143



39

60-Nd-143

MAT 6028 MT= 56 (n,n') Level Legendre Coefficients 60-Nd-143

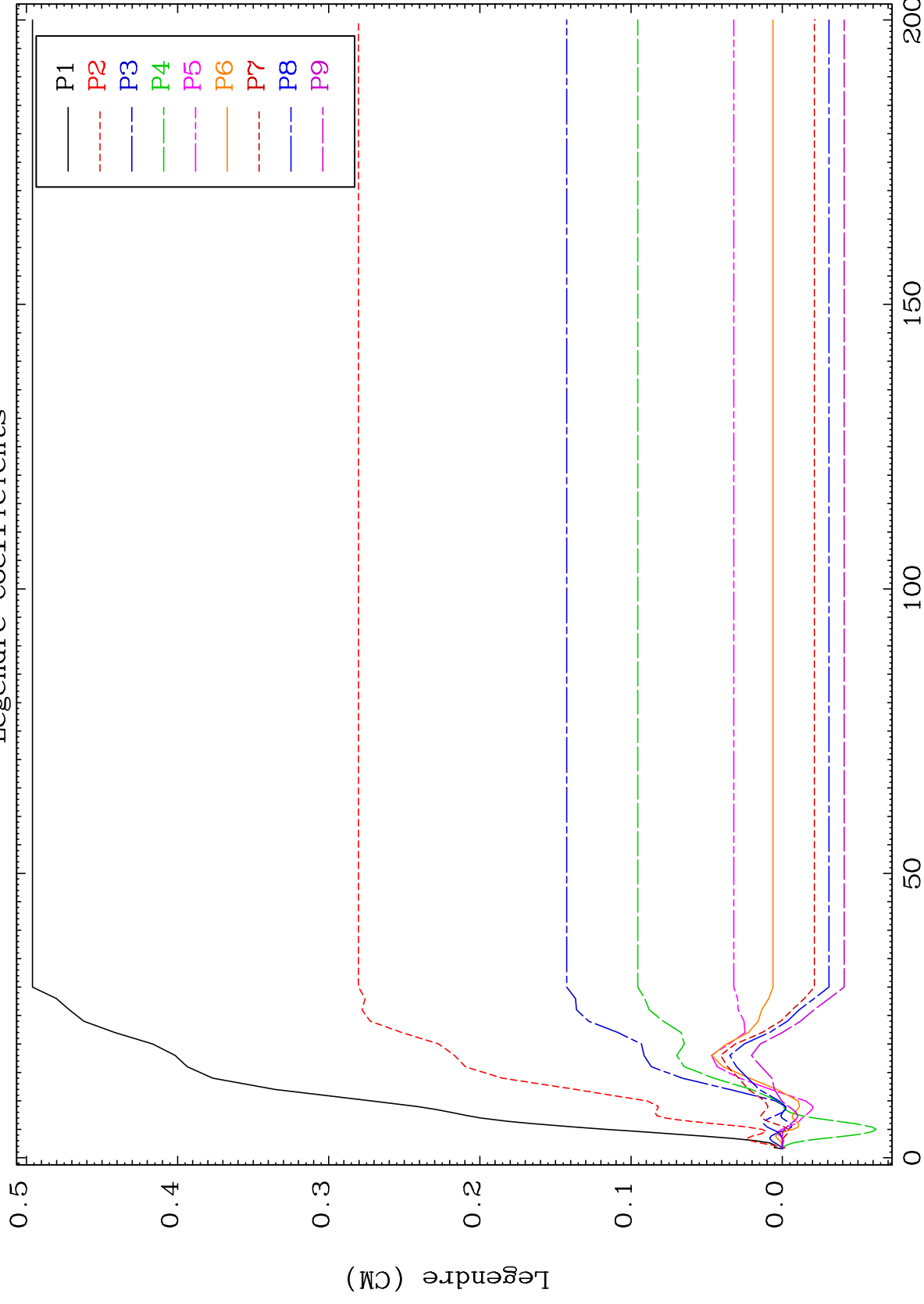


40 50 100 150 200 Incident Energy (MeV) 60-Nd-143

MAT 6028

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

60-Nd-143

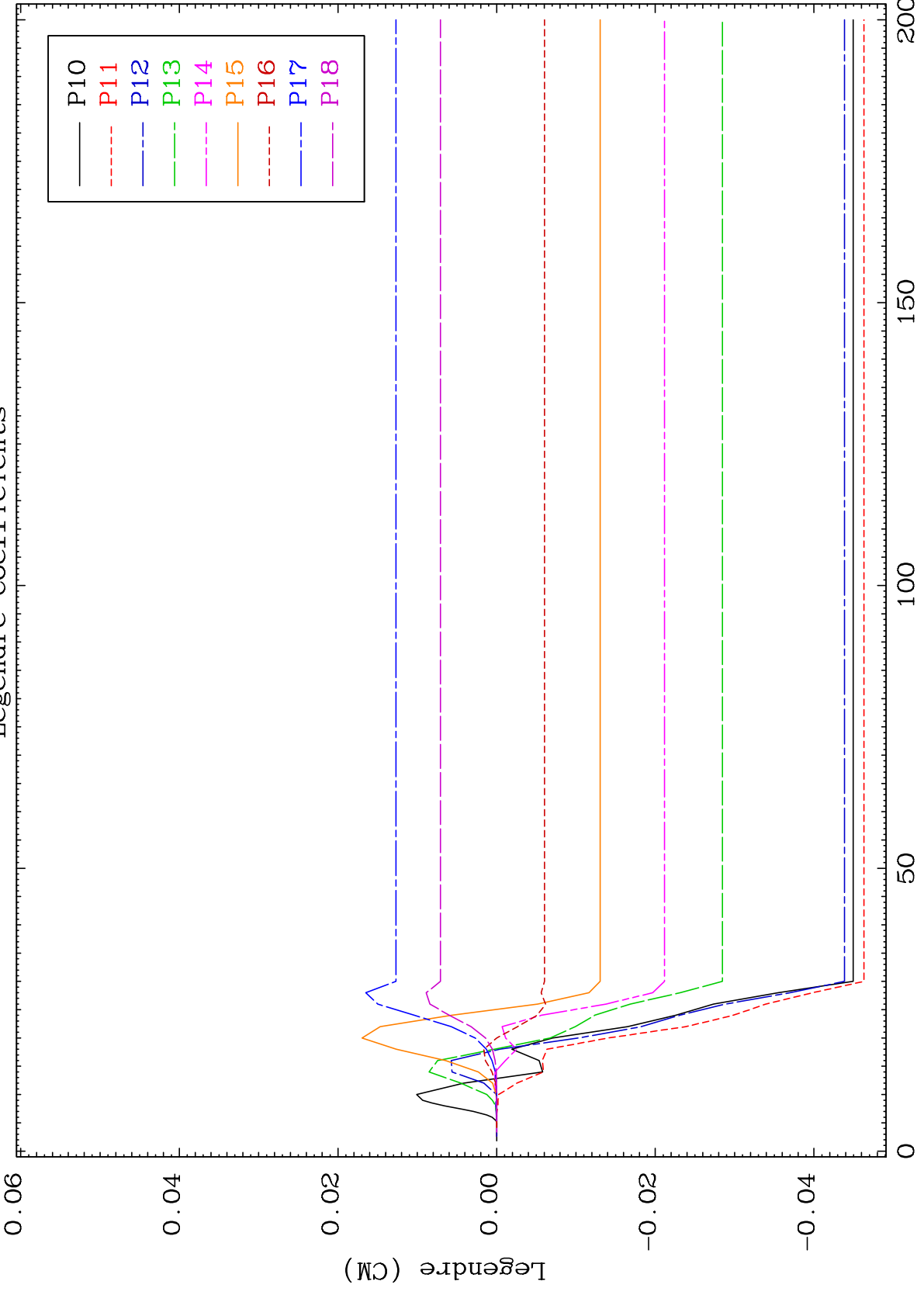


60-Nd-143

Incident Energy (MeV)

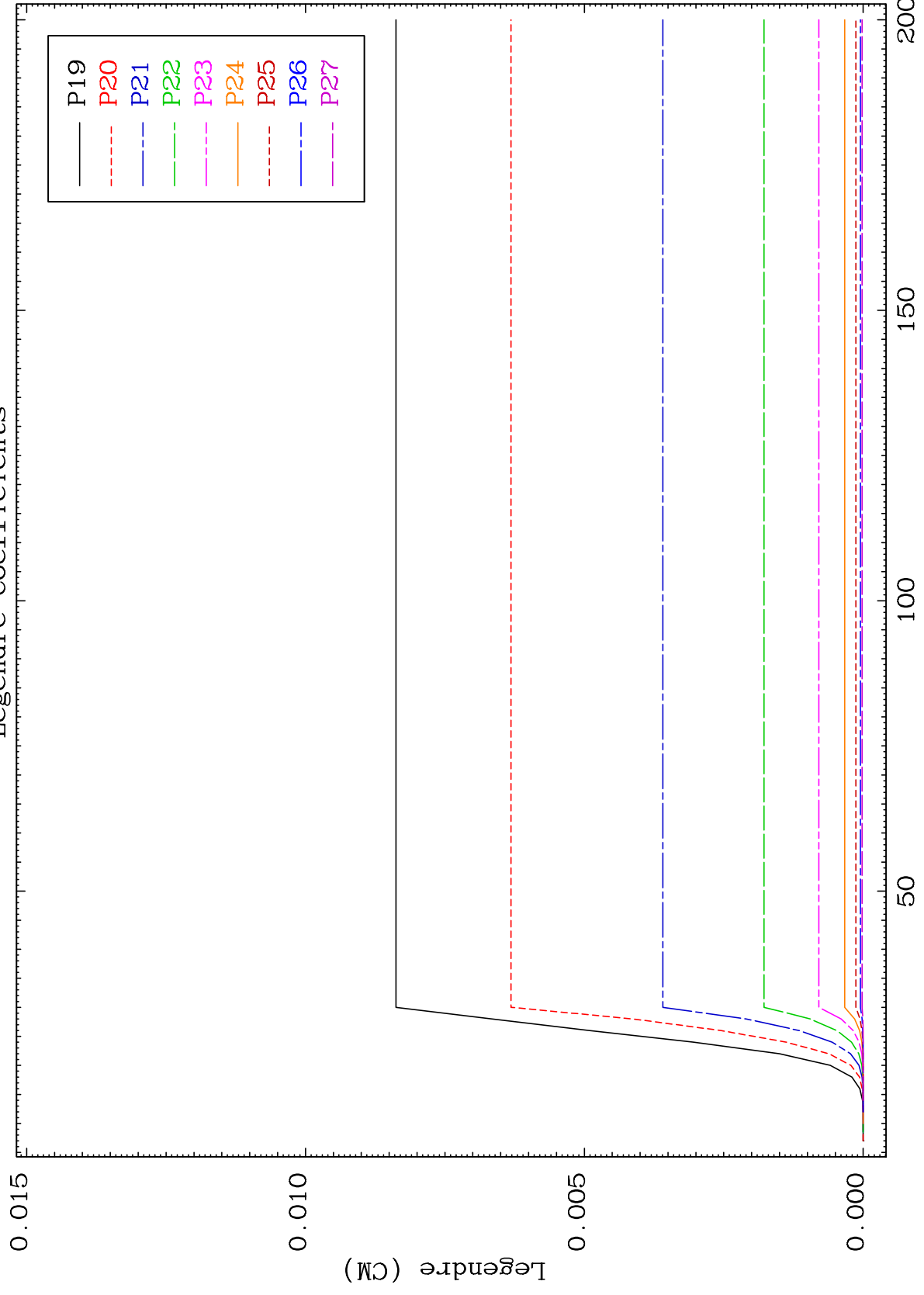
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MAT 6028 MT= 57 (n,n') Level Legendre Coefficients 60-Nd-143



42 60-Nd-143

MAT 6028 MT= 57 (n,n') Level Legendre Coefficients 60-Nd-143

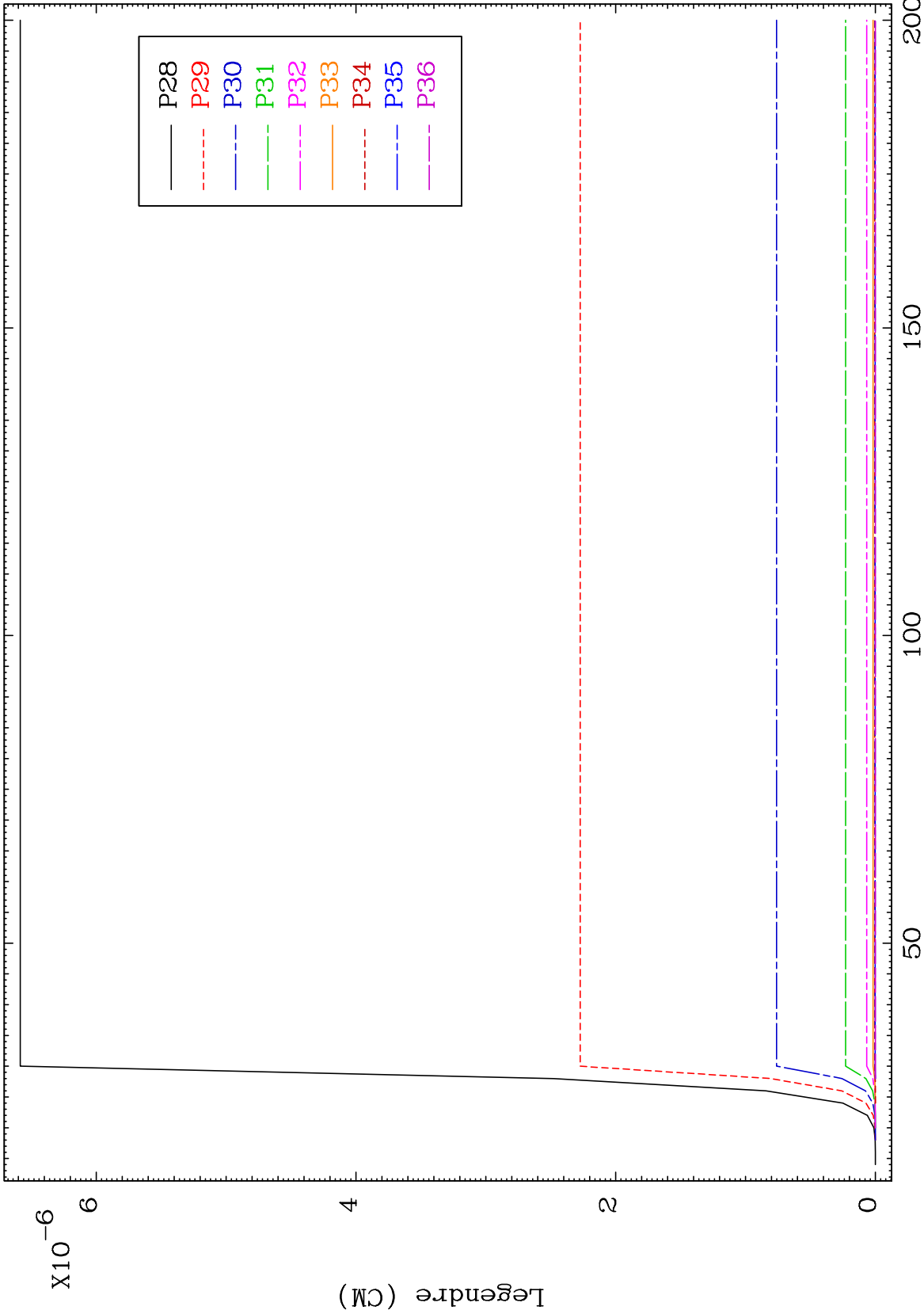


43 60-Nd-143

MAT 6028

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

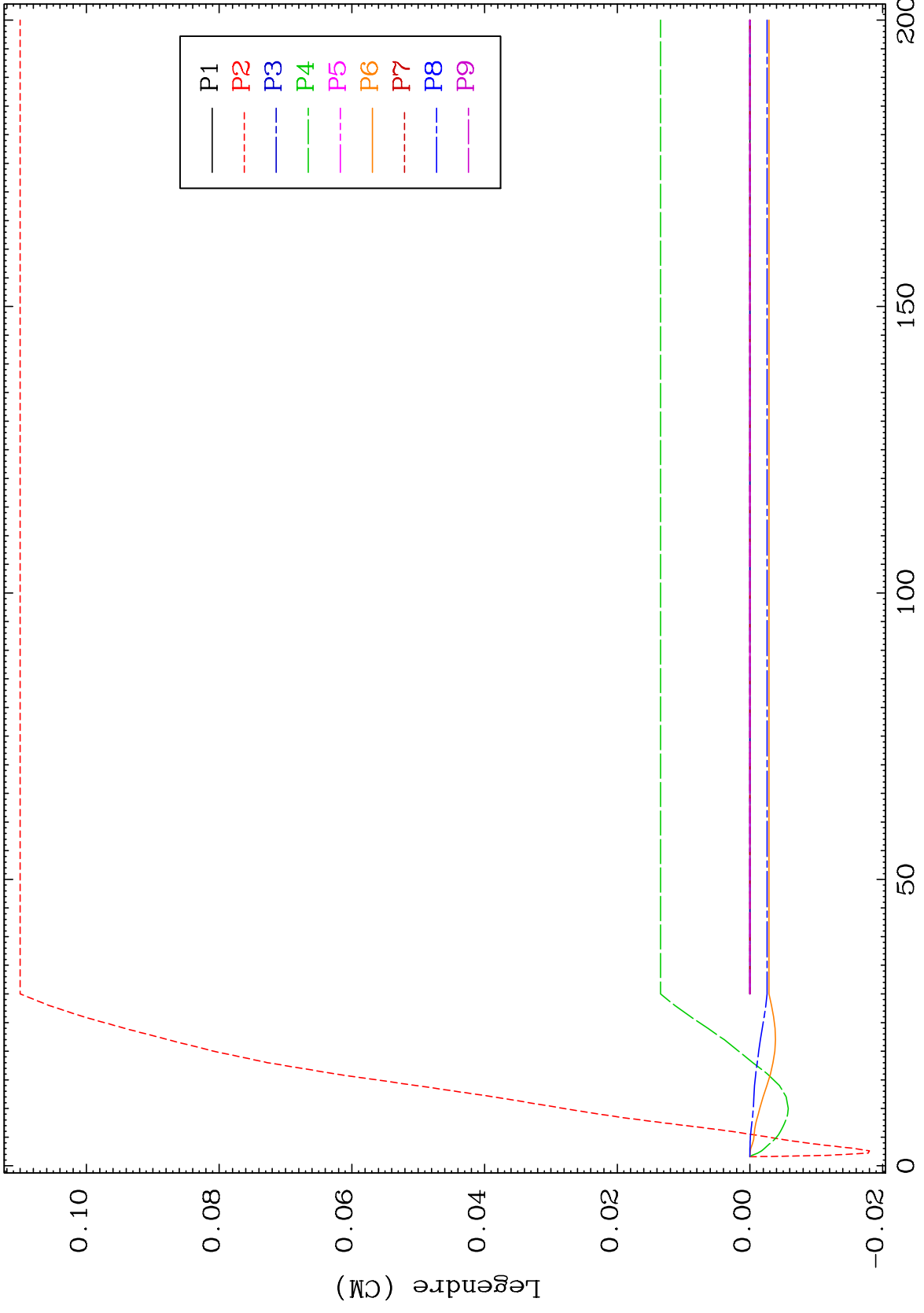
60-Nd-143



44

60-Nd-143

MAT 6028 MT= 58 (n,n') Level Legendre Coefficients 60-Nd-143

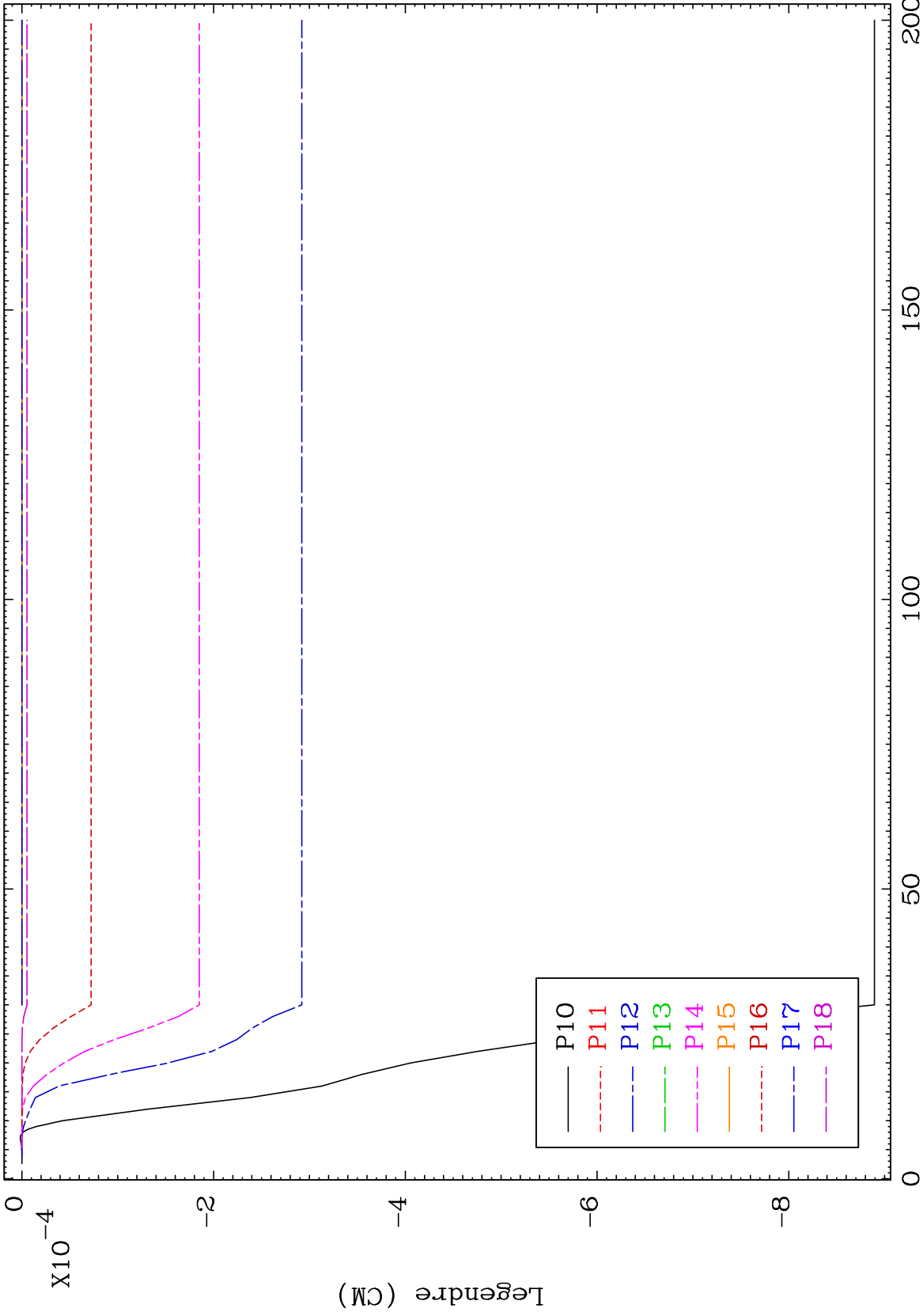


Legendre (CM) Incident Energy (MeV) 60-Nd-143

MAT 6028

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

60-Nd-143

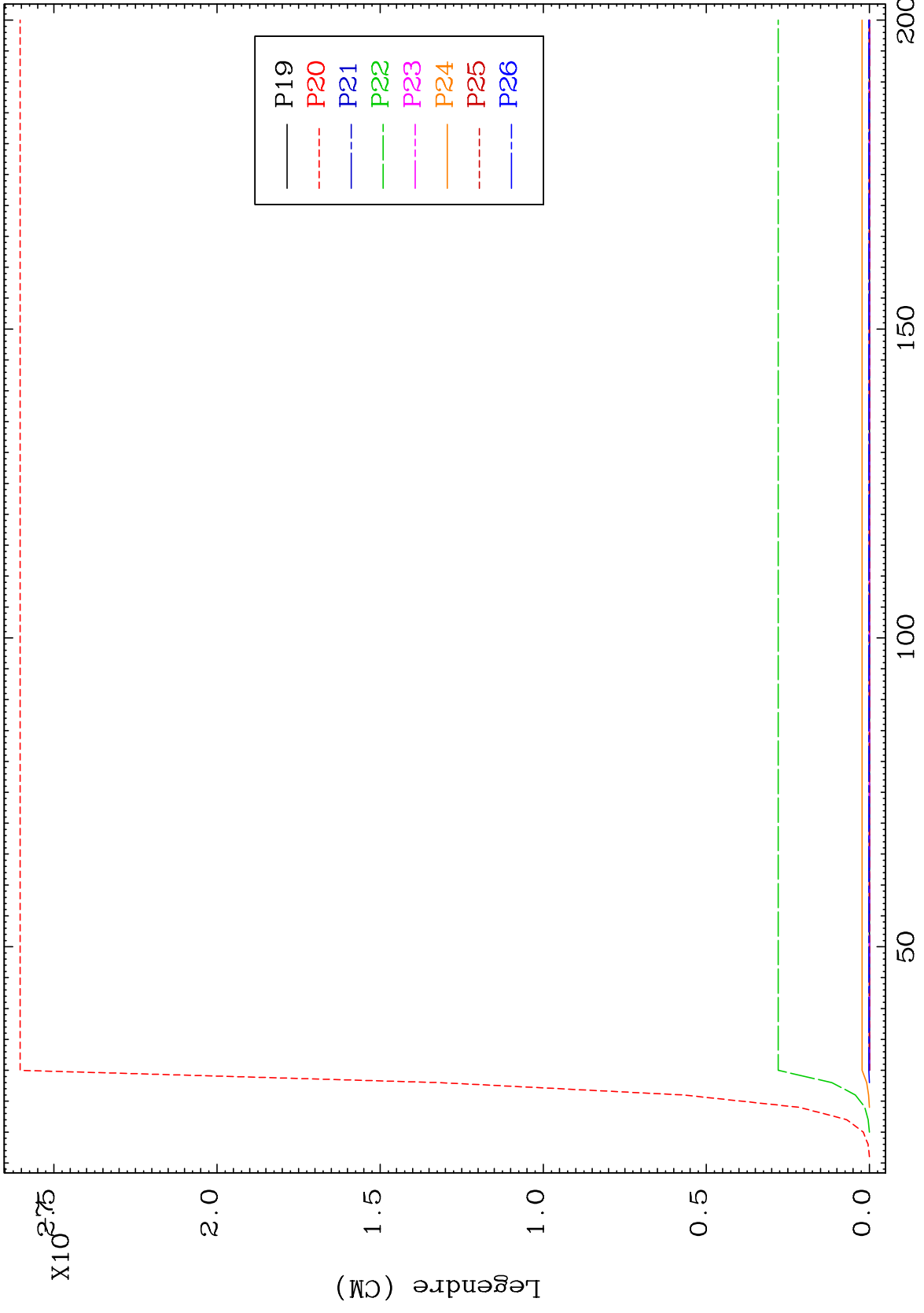


60-Nd-143

Incident Energy (MeV)

46

MAT 6028 MT= 58 (n,n') Level Legendre Coefficients 60-Nd-143

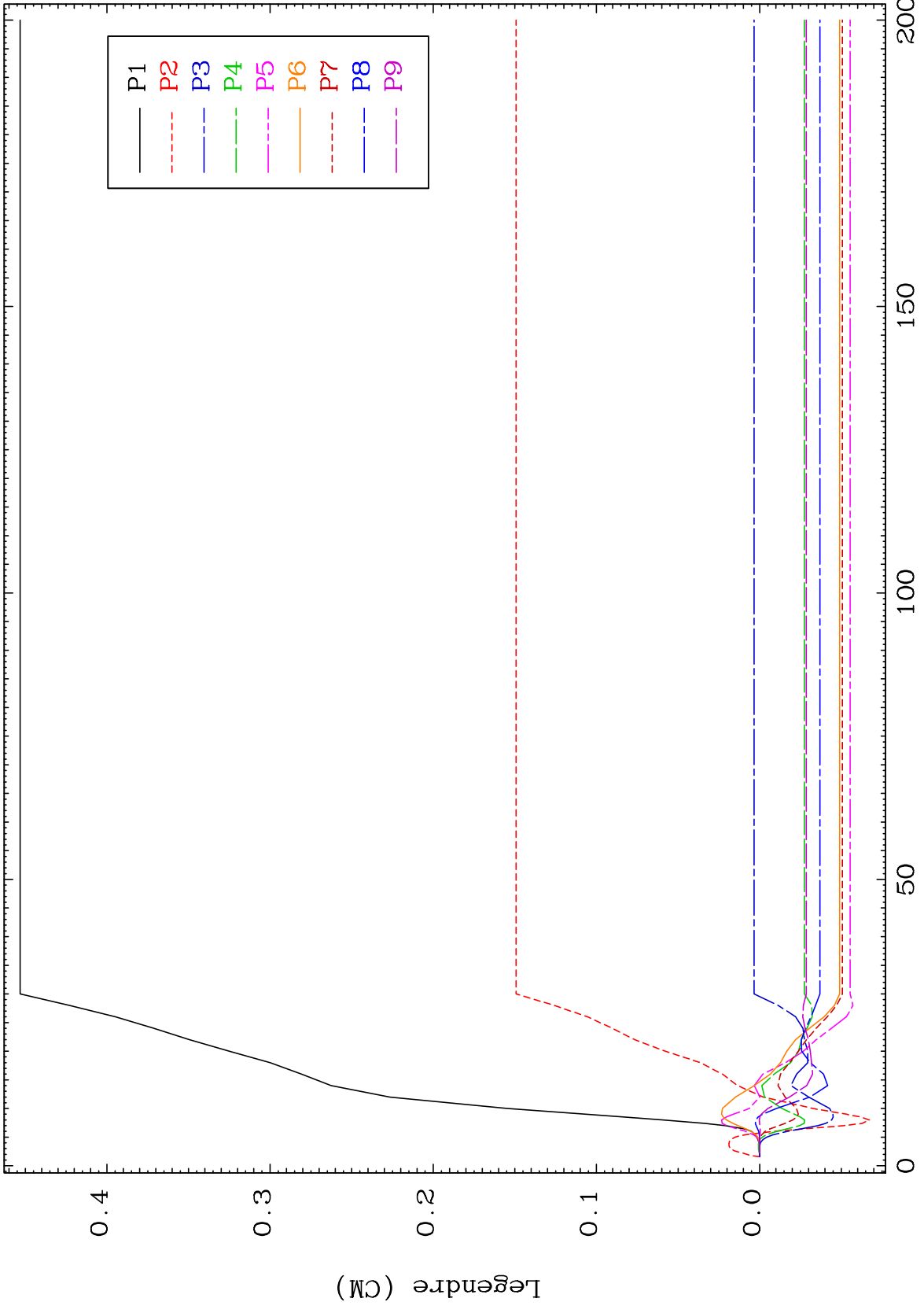


47 Incident Energy (MeV) 60-Nd-143

MAT 6028

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

60-Nd-143



48

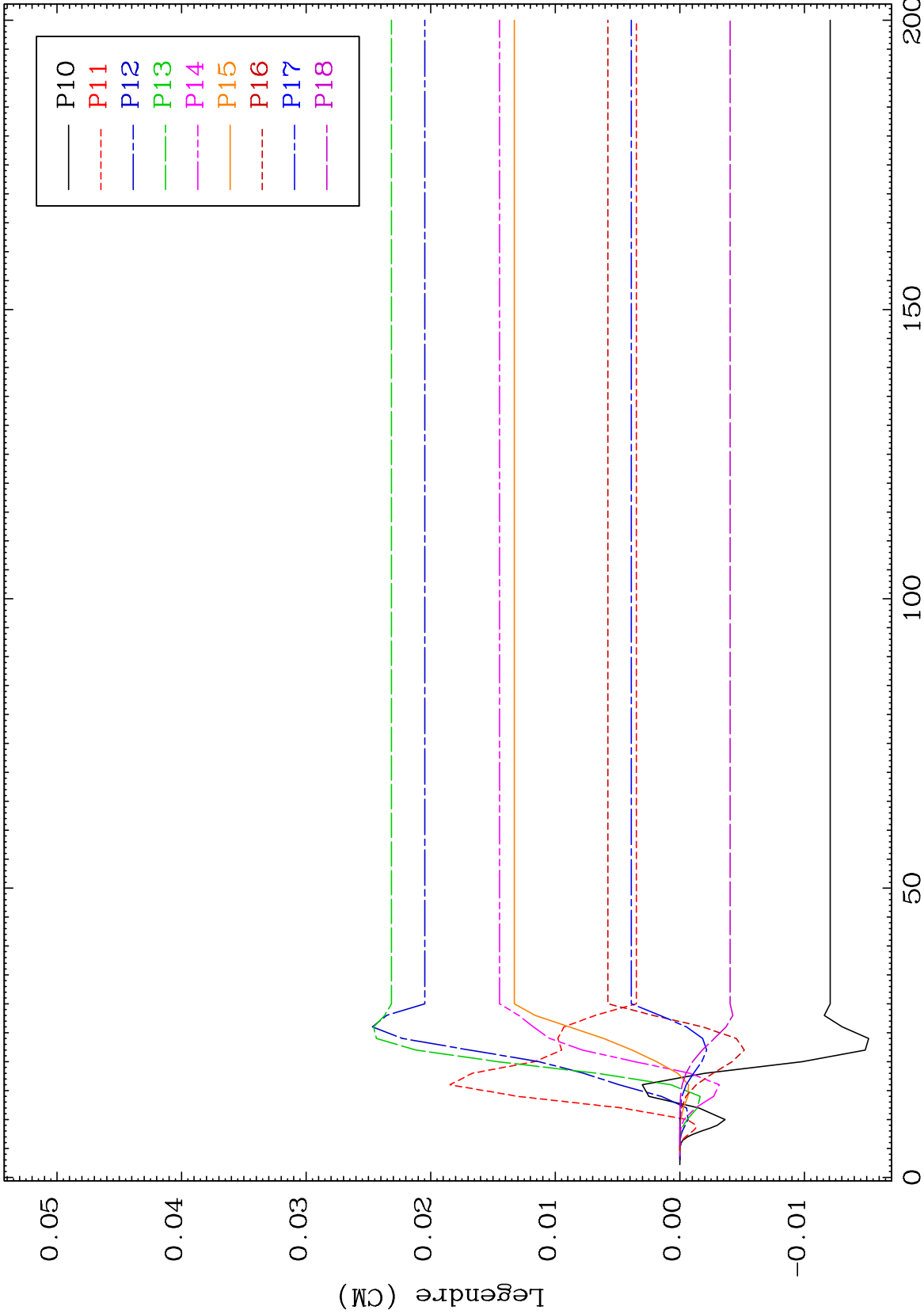
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143



49

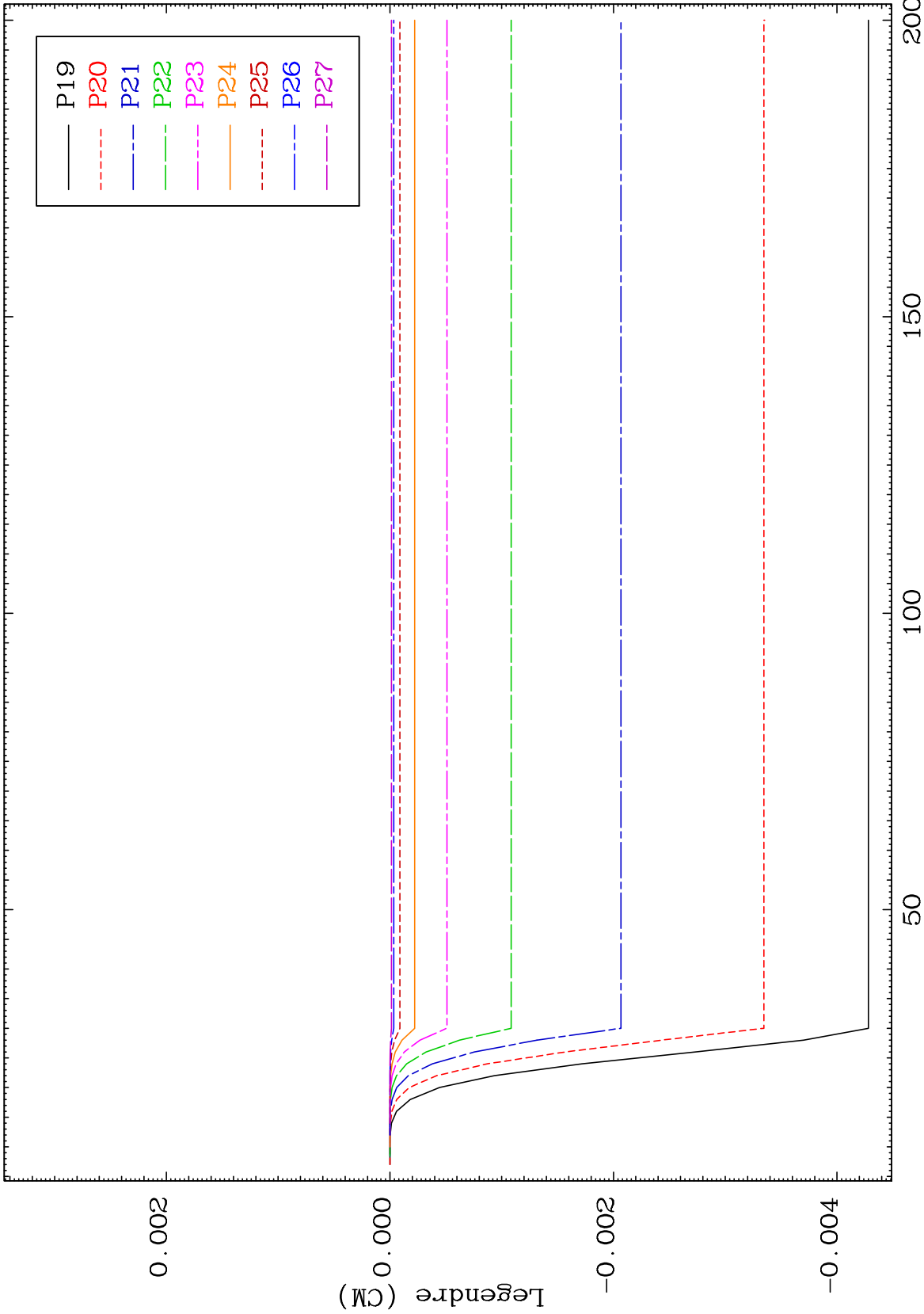
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143



50

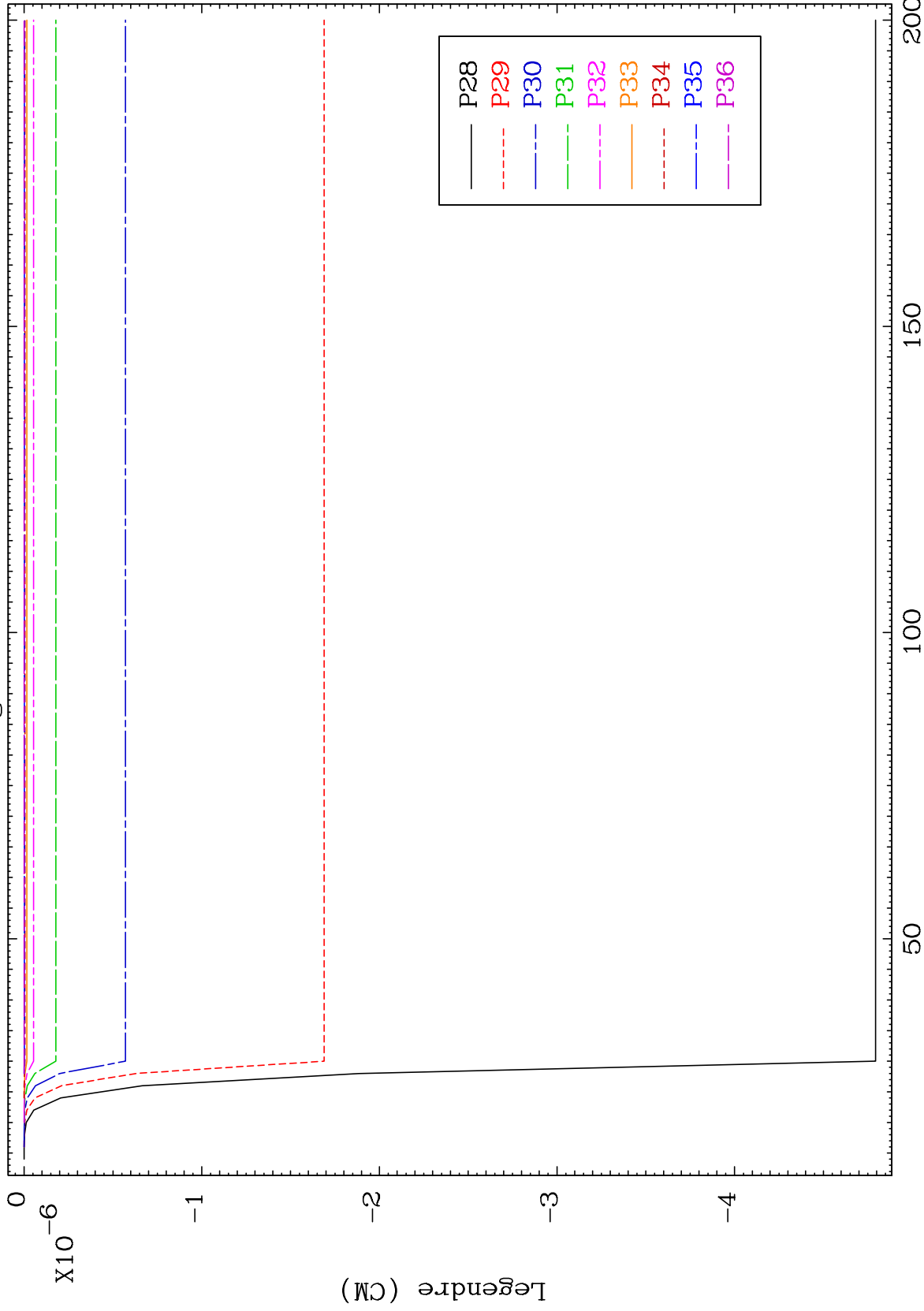
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

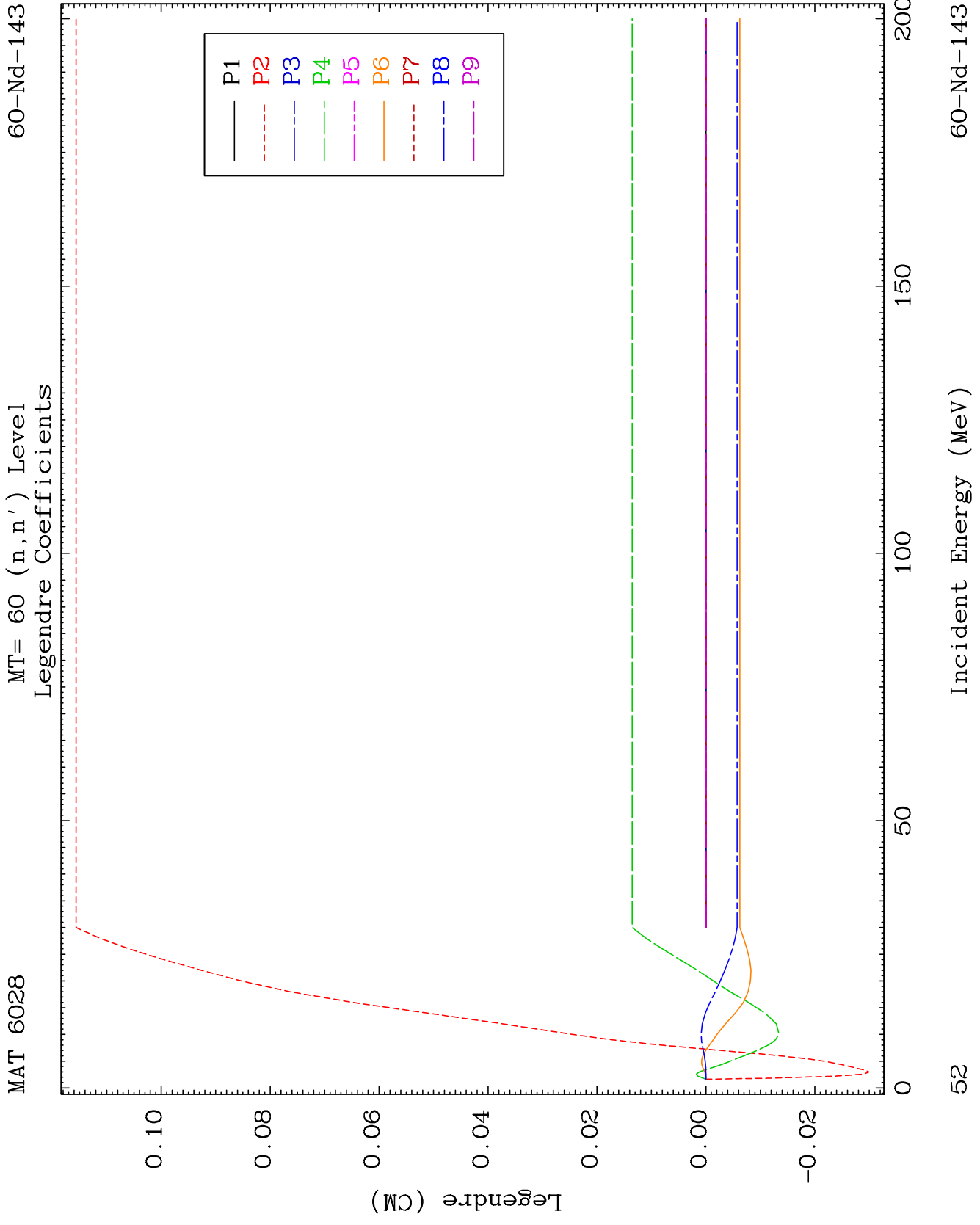
60-Nd-143



60-Nd-143

Incident Energy (MeV)

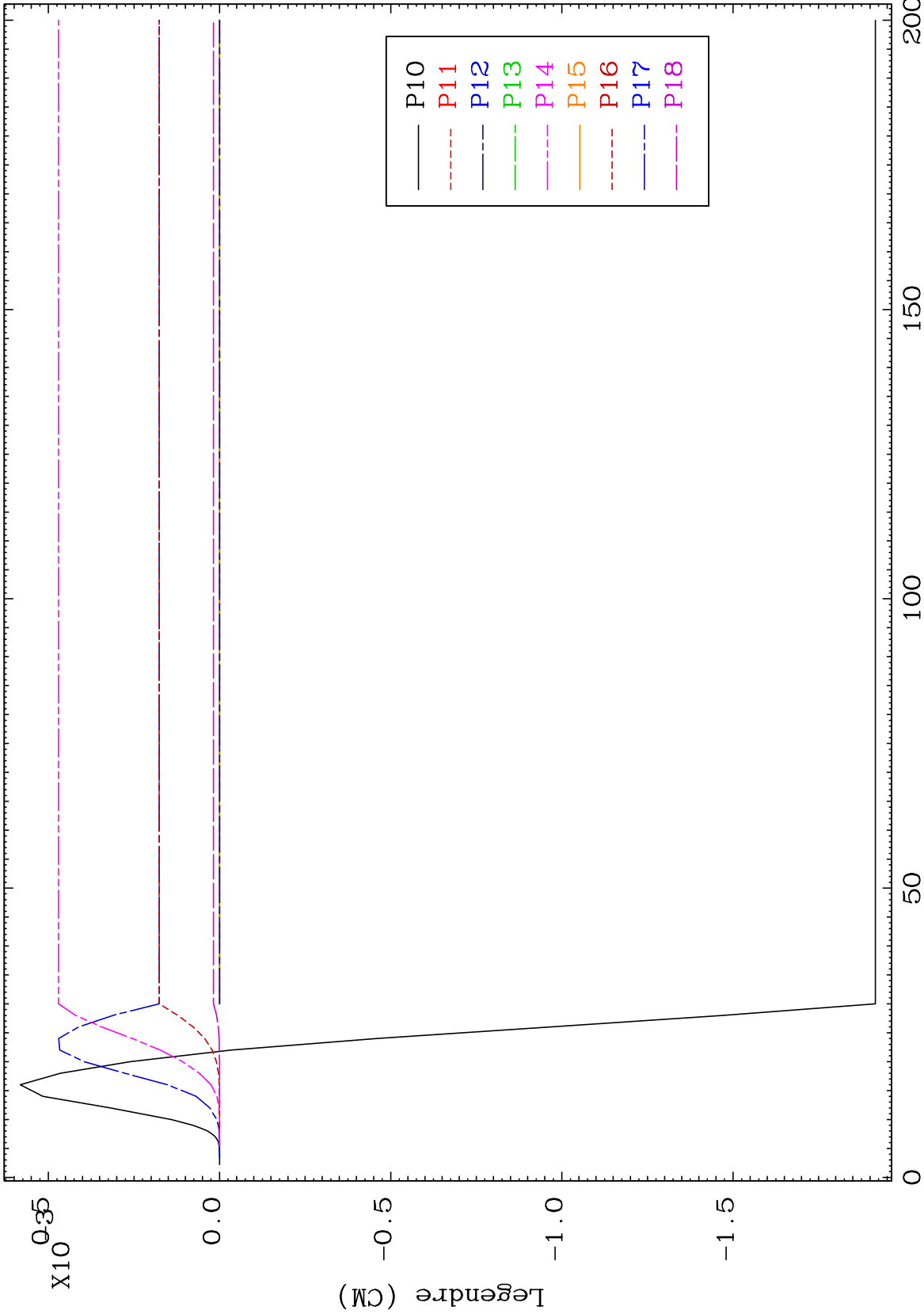
51



MAT 6028

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

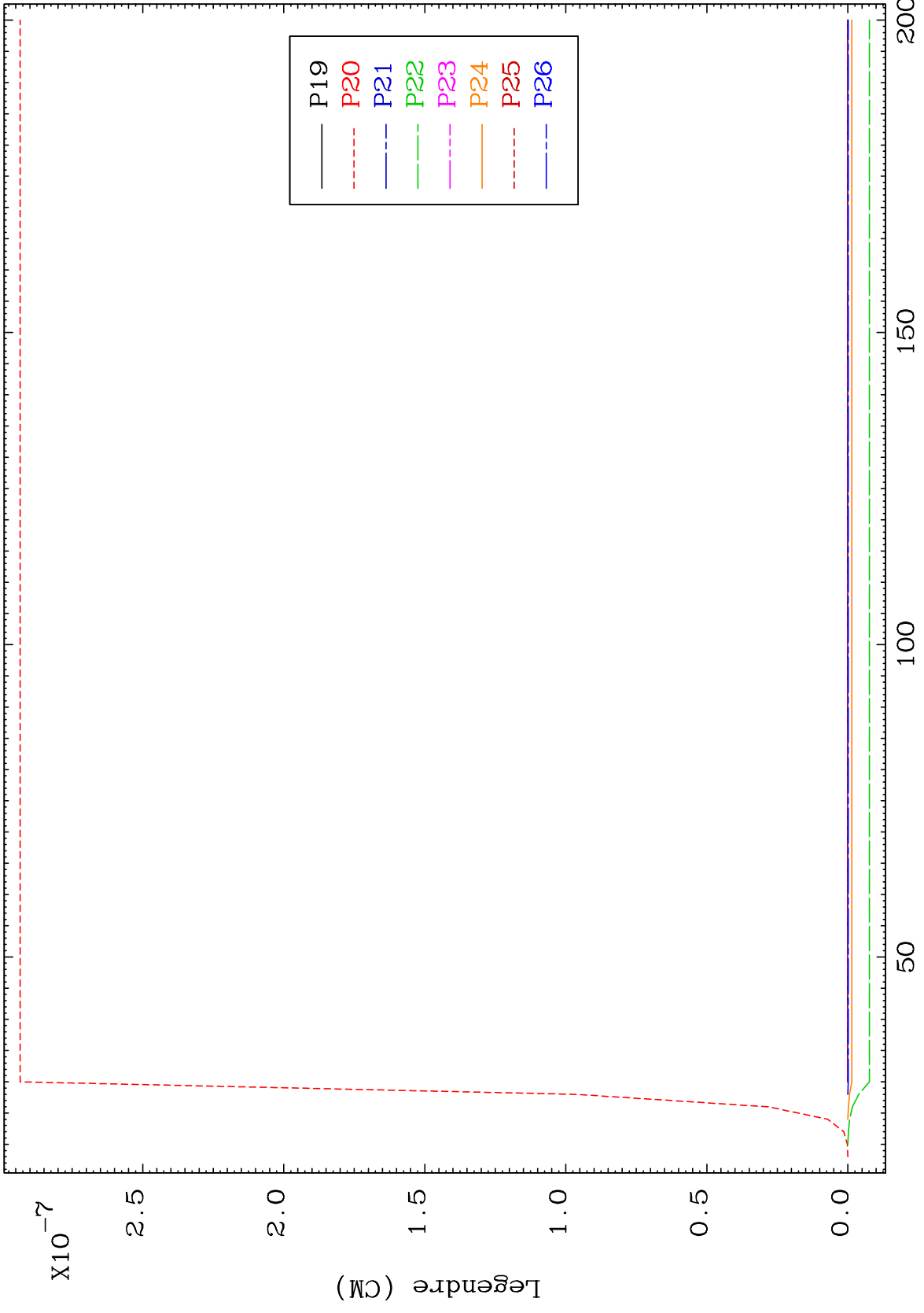
60-Nd-143



53

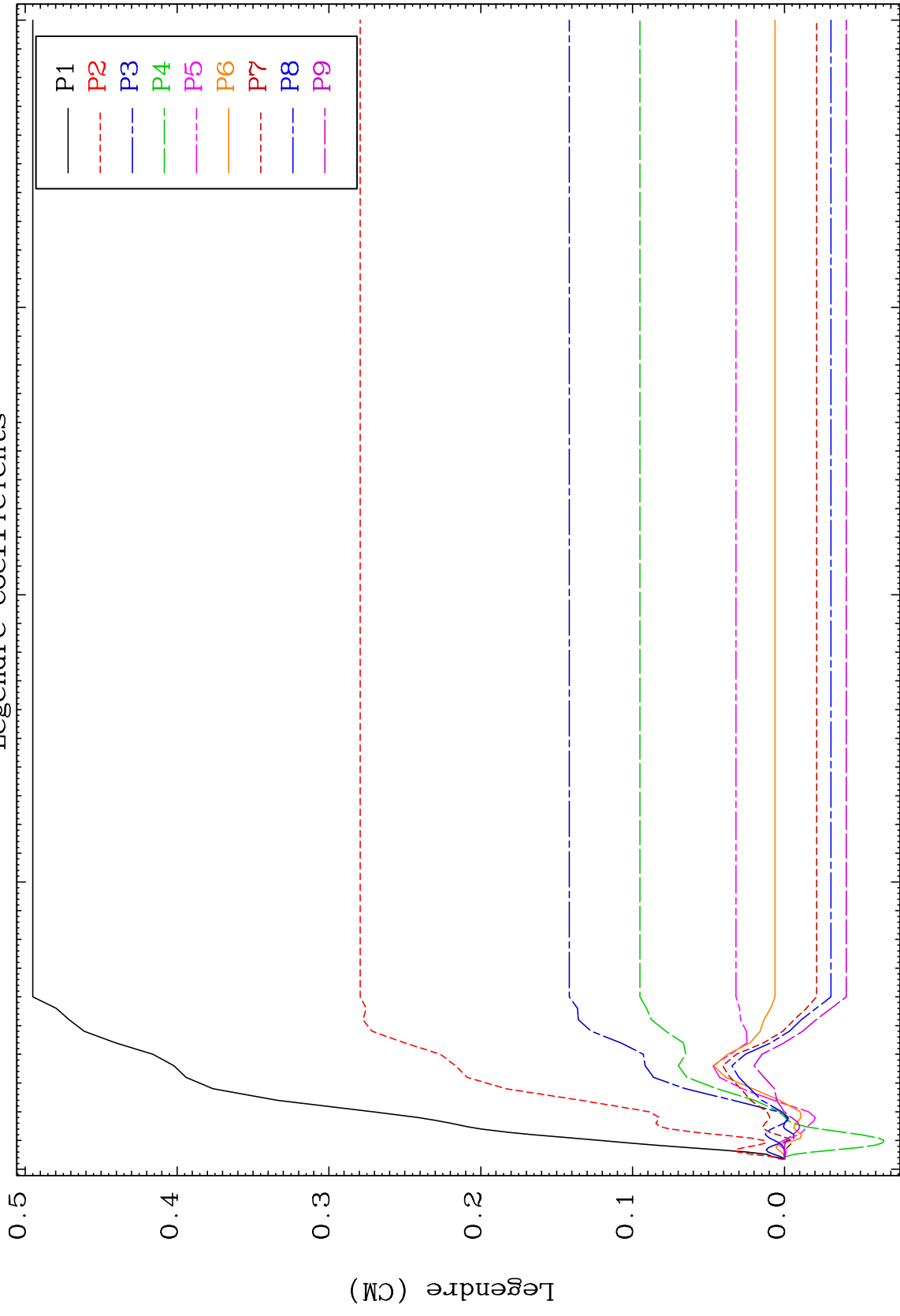
60-Nd-143

MAT 6028 MT= 60 (n,n') Level Legendre Coefficients 60-Nd-143

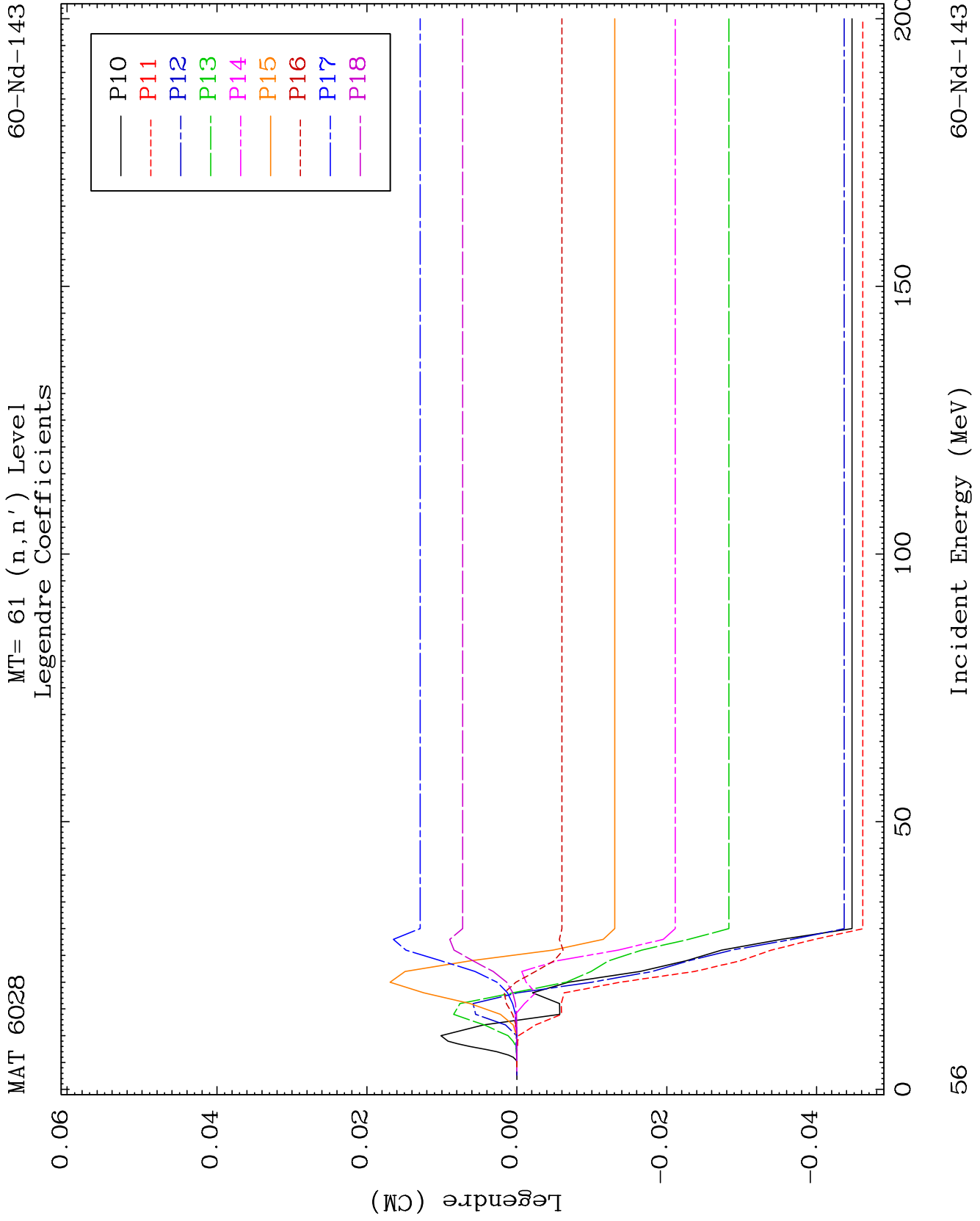


54 Incident Energy (MeV) 60-Nd-143

MAT 6028 MT= 61 (n,n') Level Legendre Coefficients 60-Nd-143



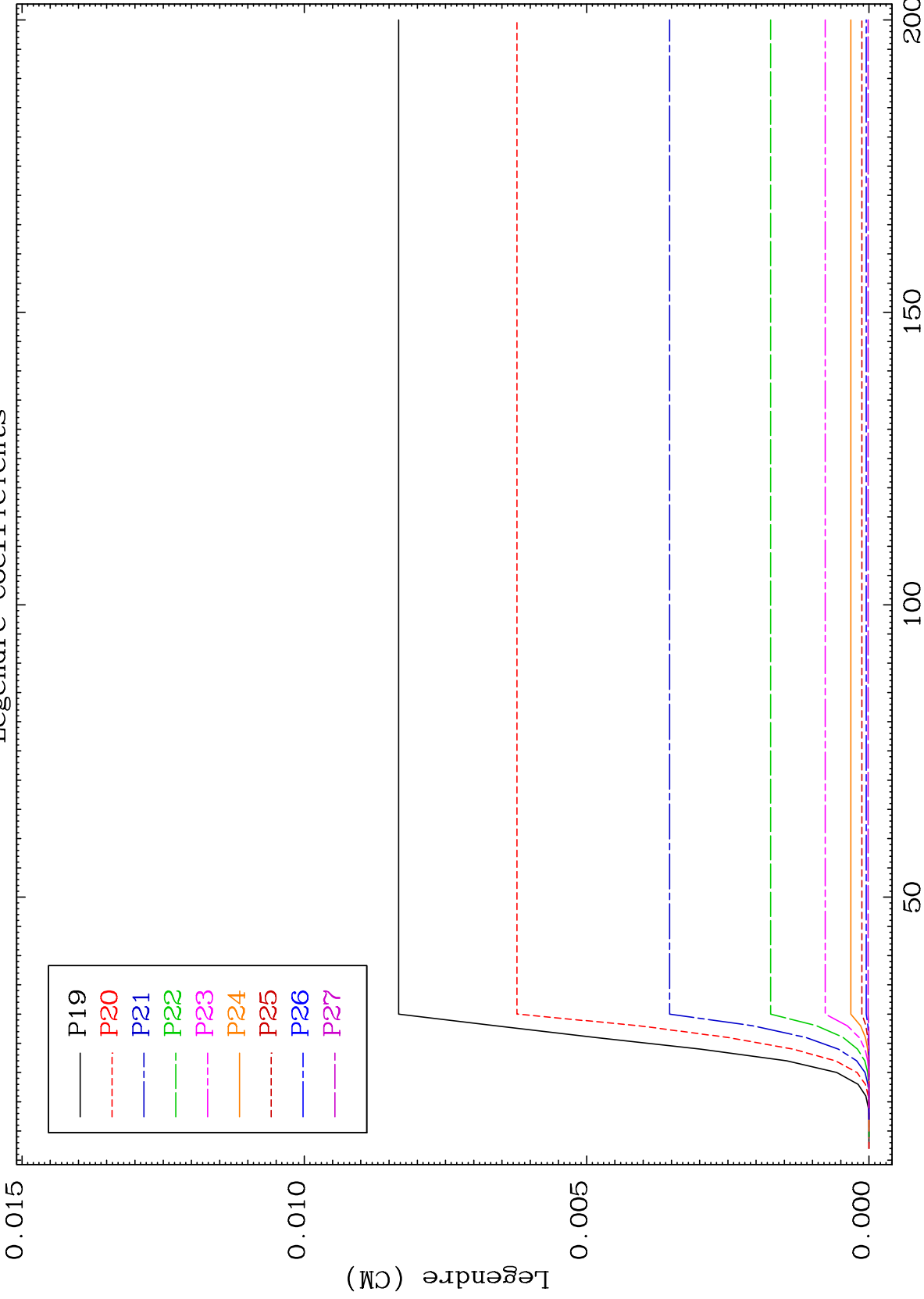
Incident Energy (MeV) 60-Nd-143



MAT 6028

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

60-Nd-143



60-Nd-143

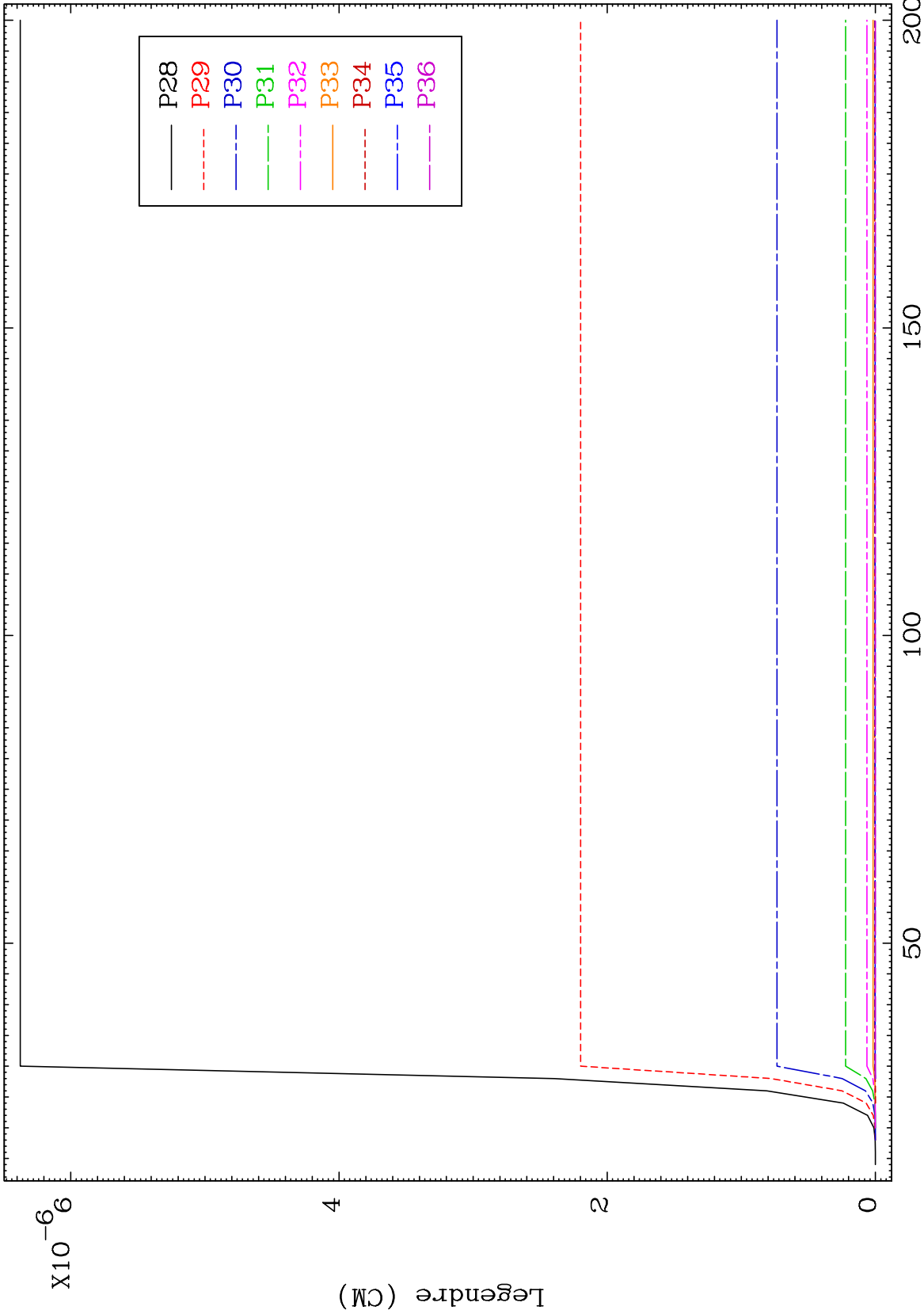
Incident Energy (MeV)

57

MAT 6028

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

60-Nd-143

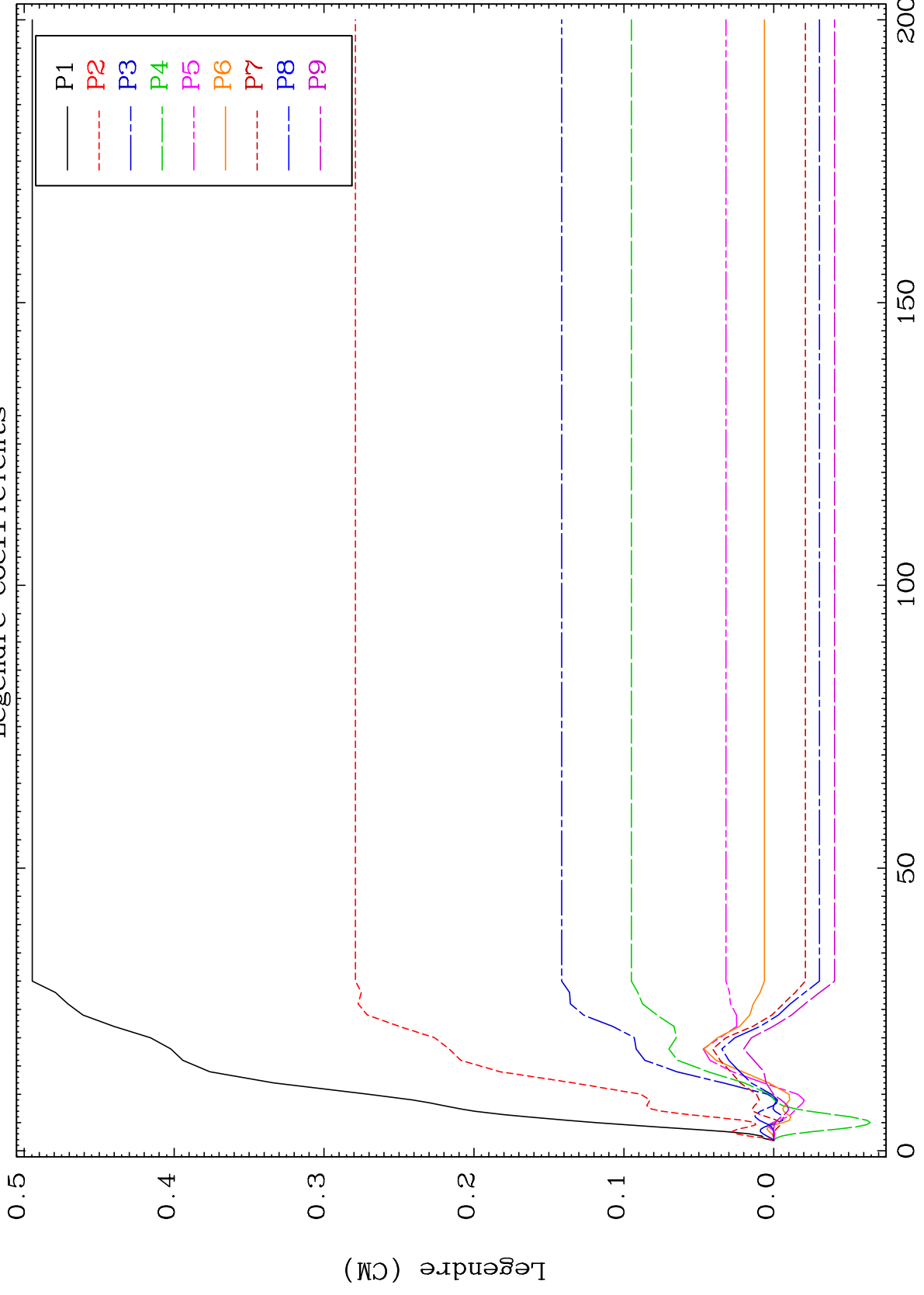


58

Incident Energy (MeV)

60-Nd-143

MAT 6028 MT= 62 (n,n') Level Legendre Coefficients 60-Nd-143



59 Incident Energy (MeV) 60-Nd-143

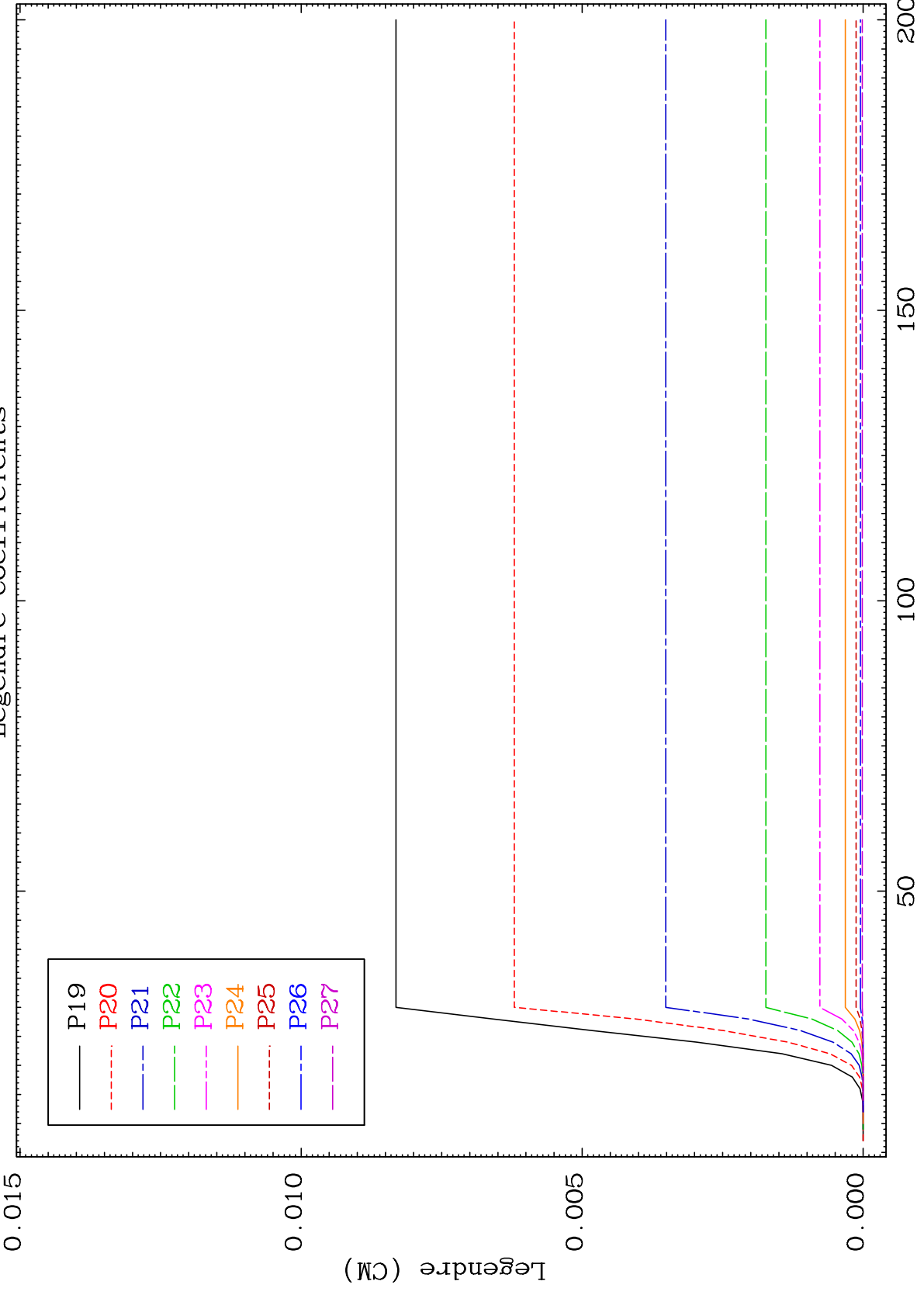
MAT 6028 MT= 62 (n,n') Level Legendre Coefficients

60-Nd-143

60-Nd-143

Incident Energy (MeV)

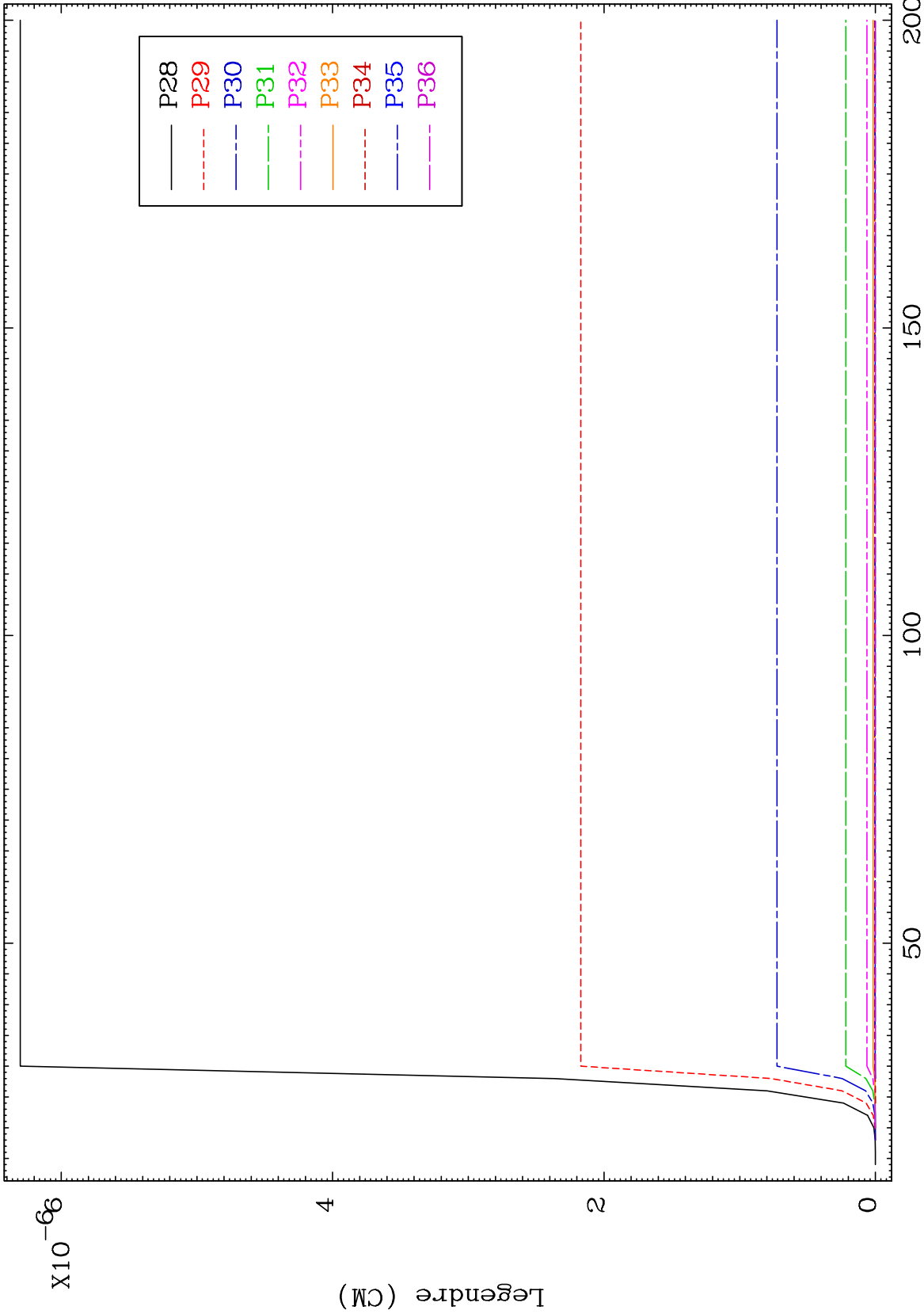
61



MAT 6028

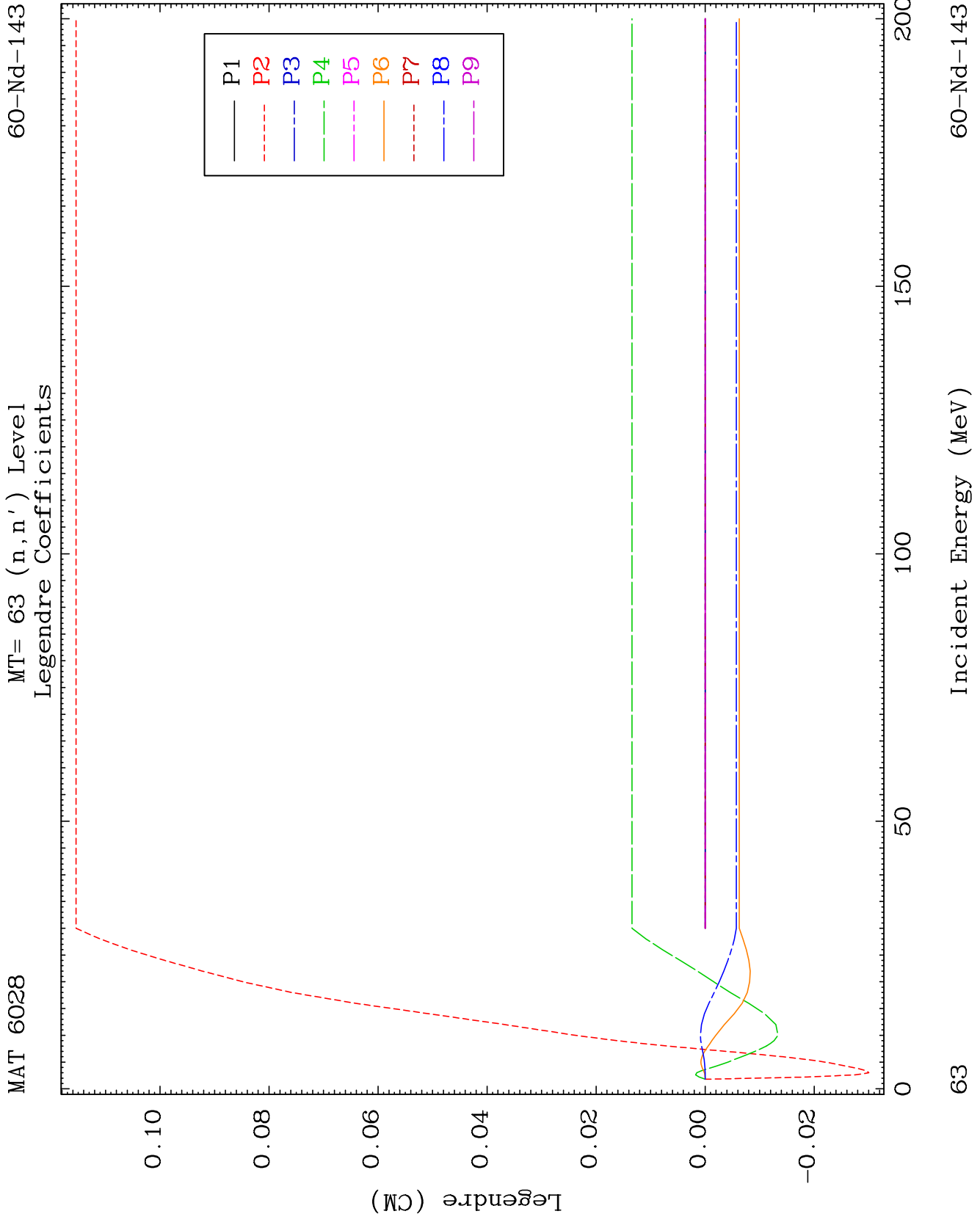
MT= 62 (n,n') Level
Legendre Coefficients

60-Nd-143



62

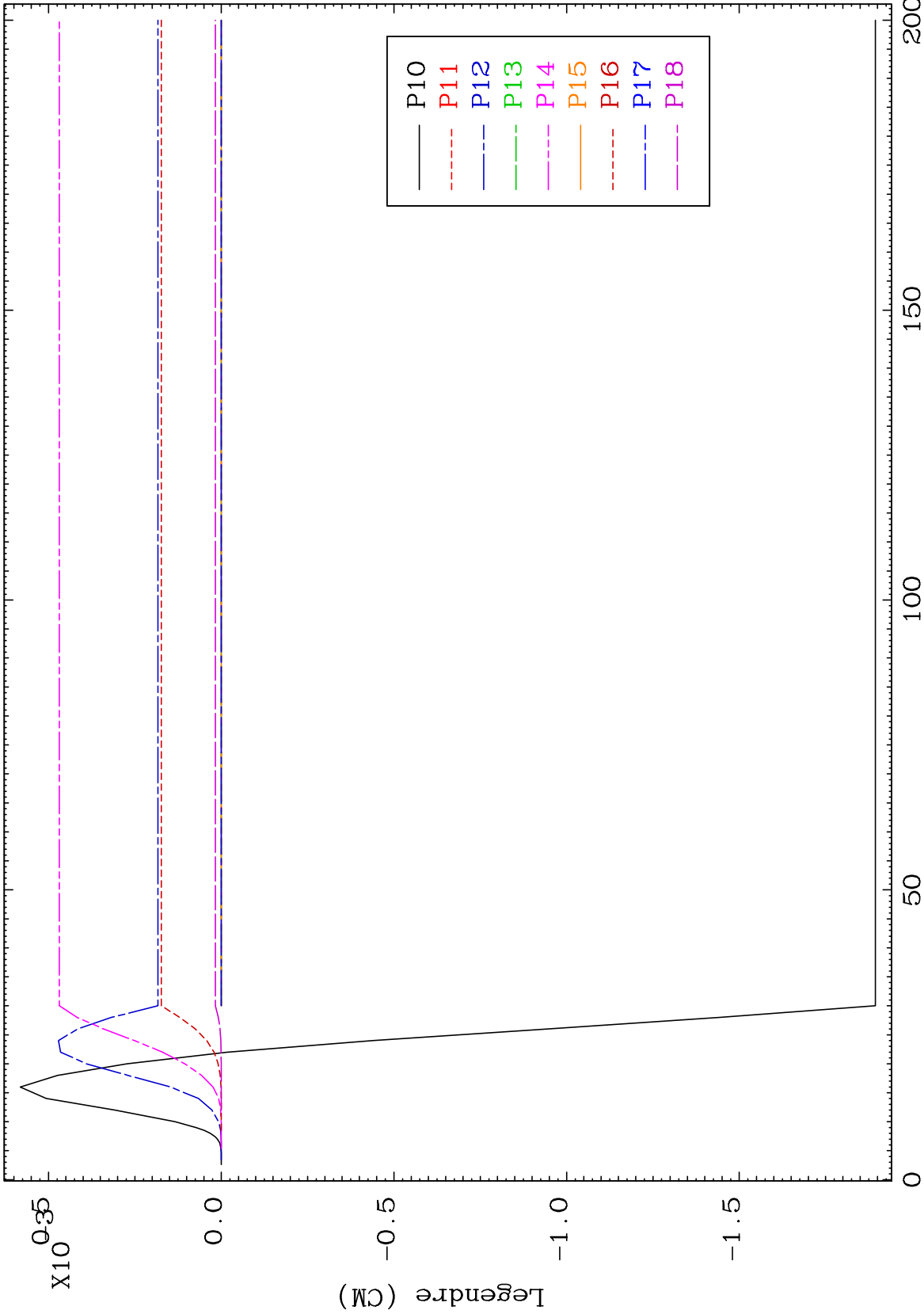
60-Nd-143



MAT 6028

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

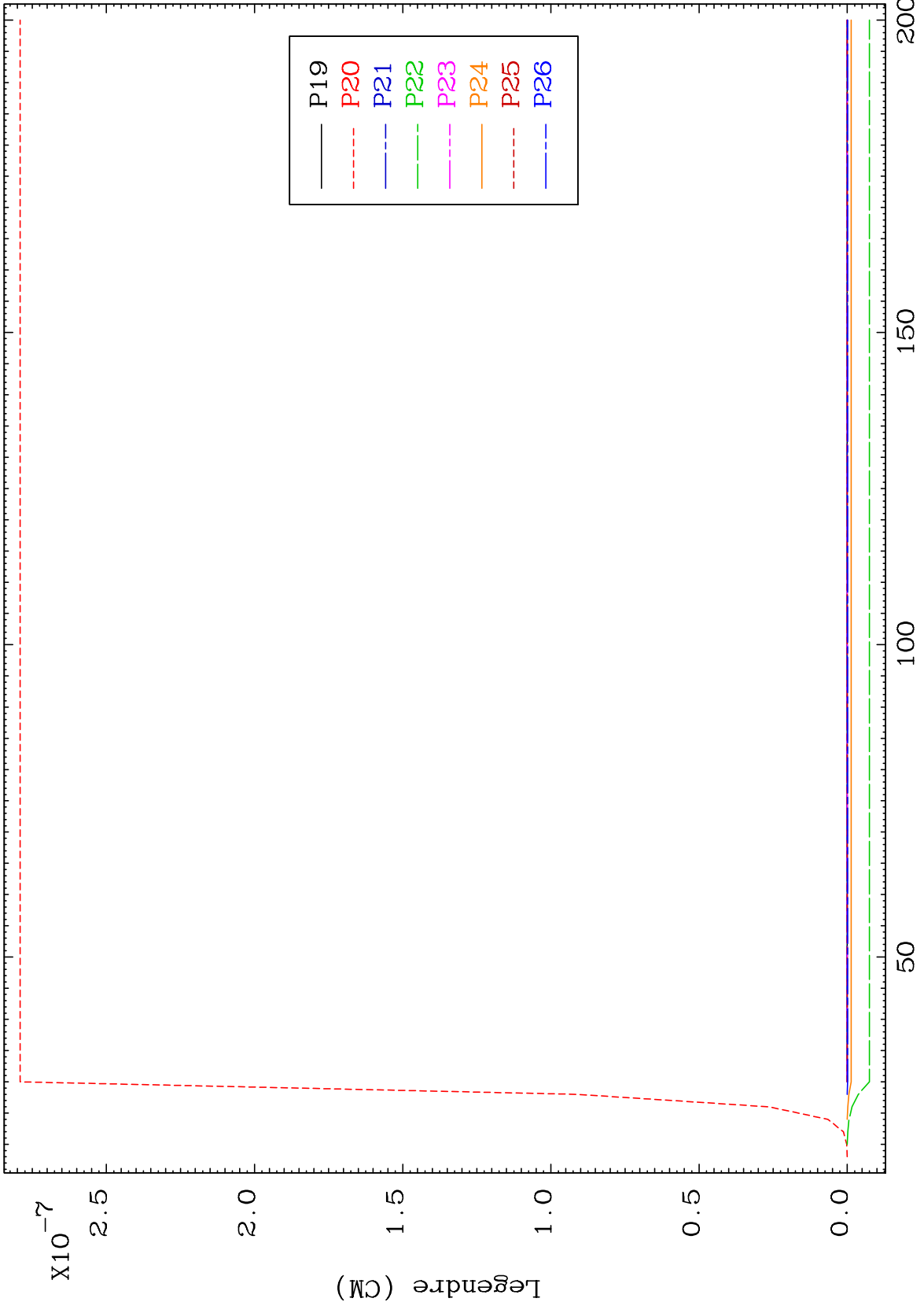
60-Nd-143



64

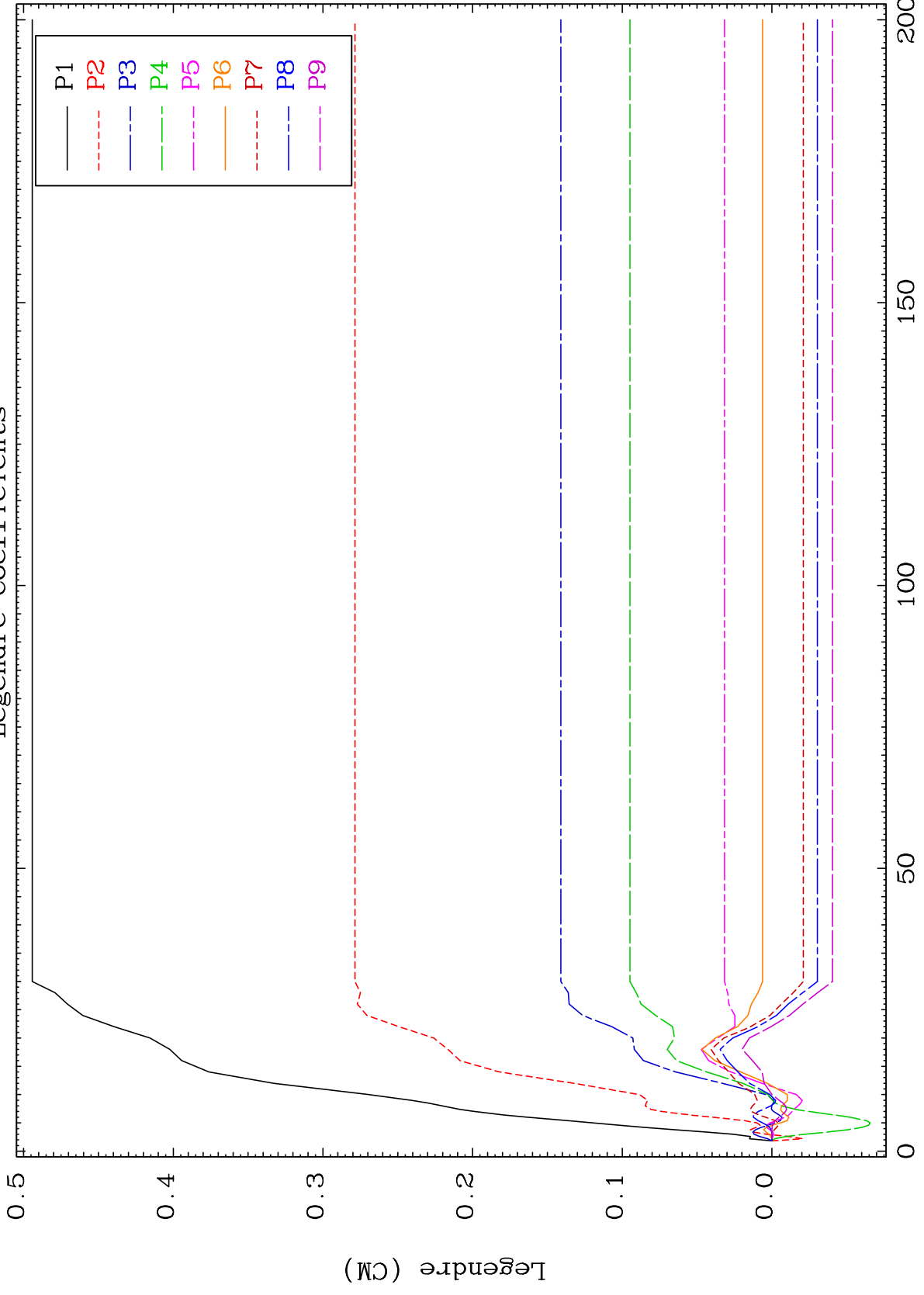
60-Nd-143

MAT 6028 MT= 63 (n,n') Level Legendre Coefficients 60-Nd-143

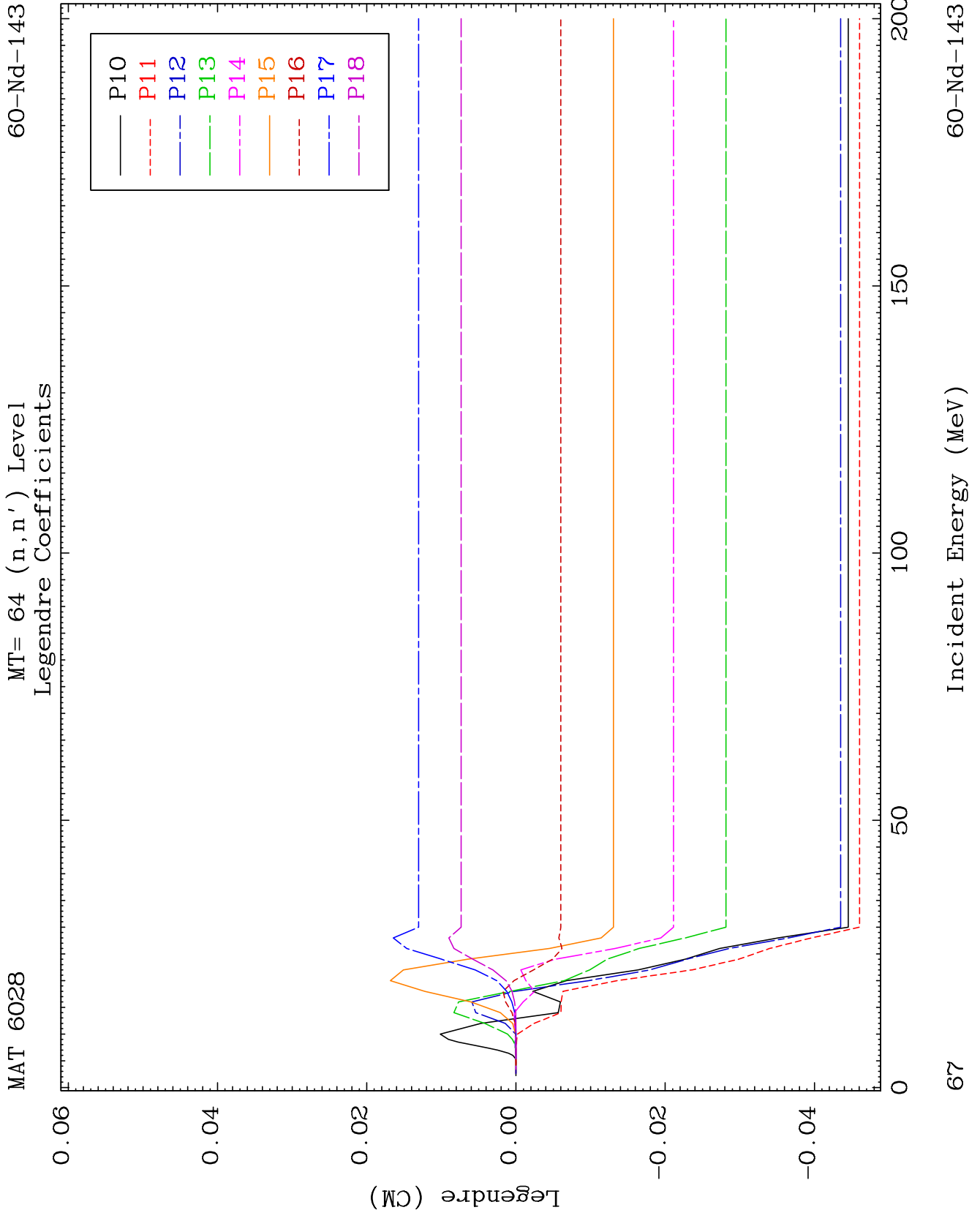


65 60-Nd-143

MAT 6028 MT= 64 (n,n') Level Legendre Coefficients 60-Nd-143



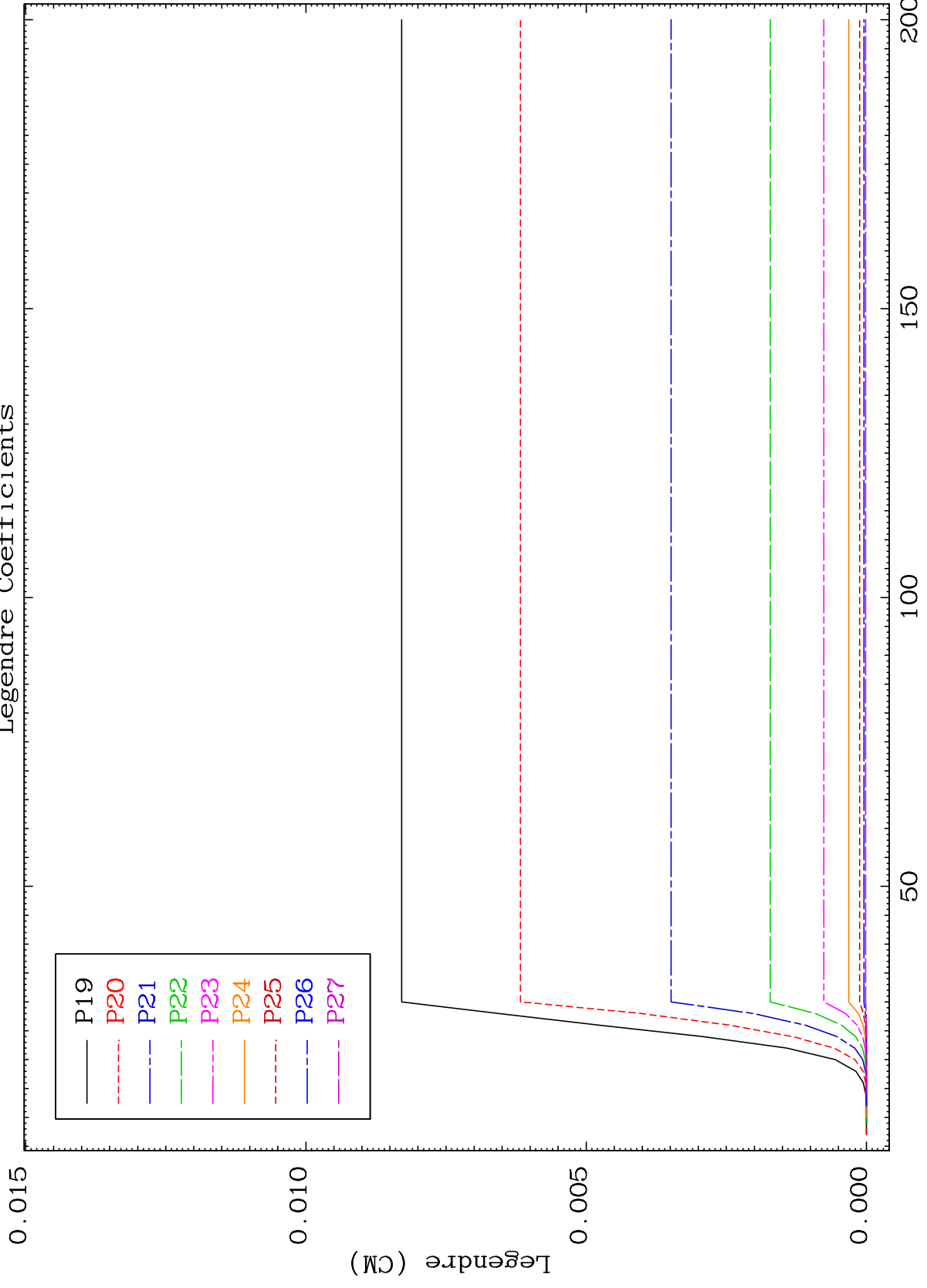
66 60-Nd-143



MAT 6028

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

60-Nd-143



60-Nd-143

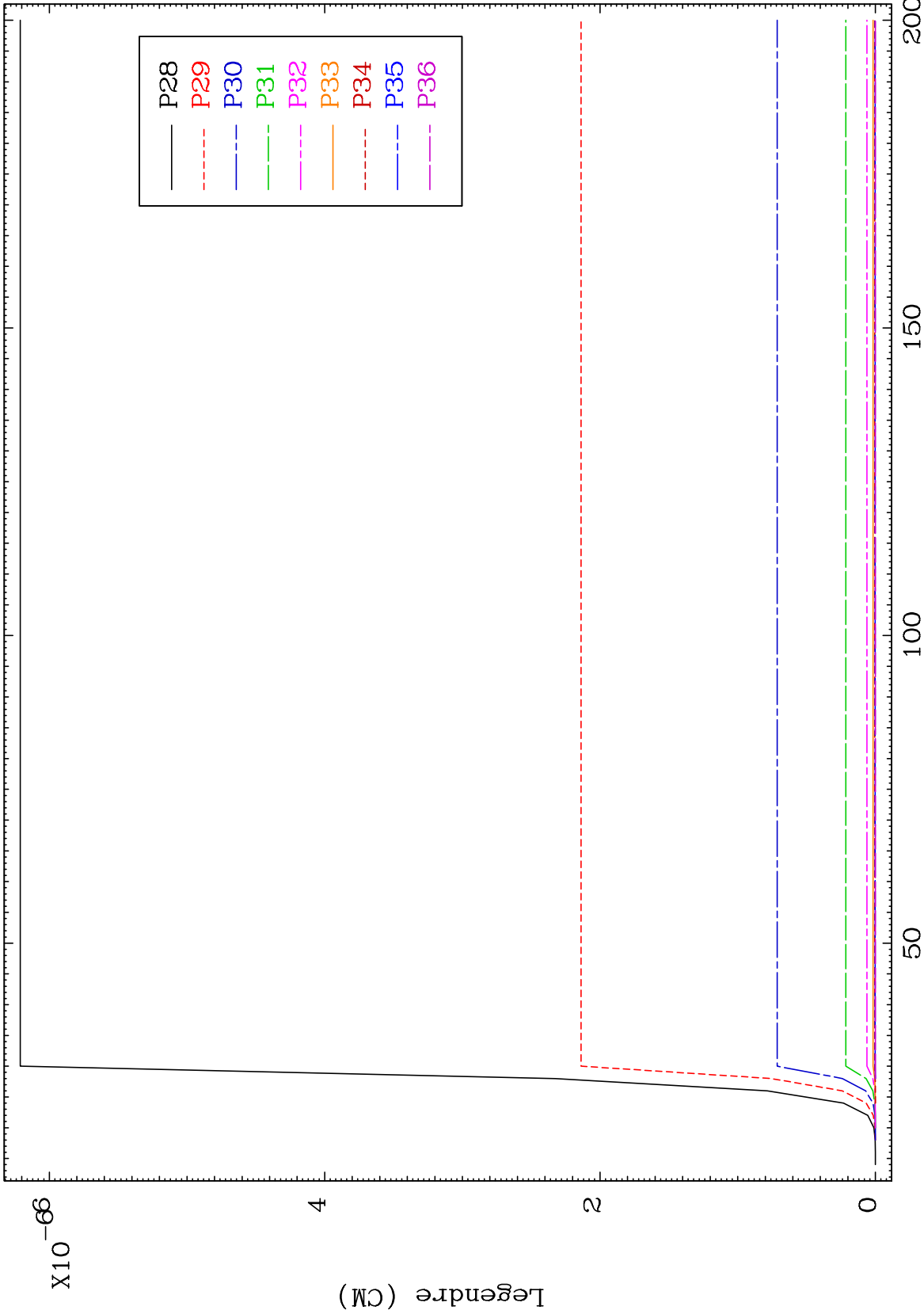
Incident Energy (MeV)

68

MAT 6028

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

60-Nd-143

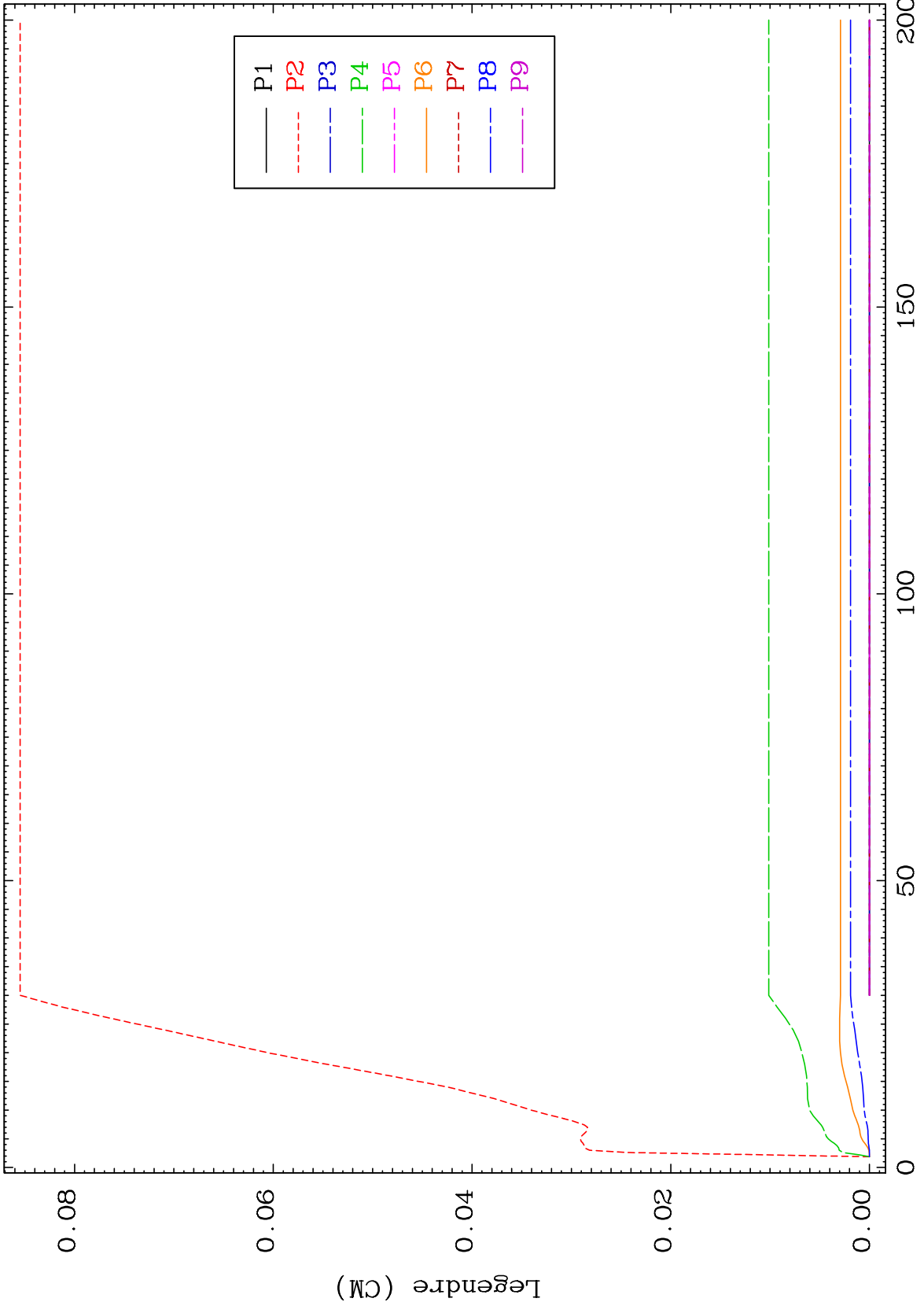


69

Incident Energy (MeV)

60-Nd-143

MAT 6028 MT= 65 (n,n') Level Legendre Coefficients 60-Nd-143

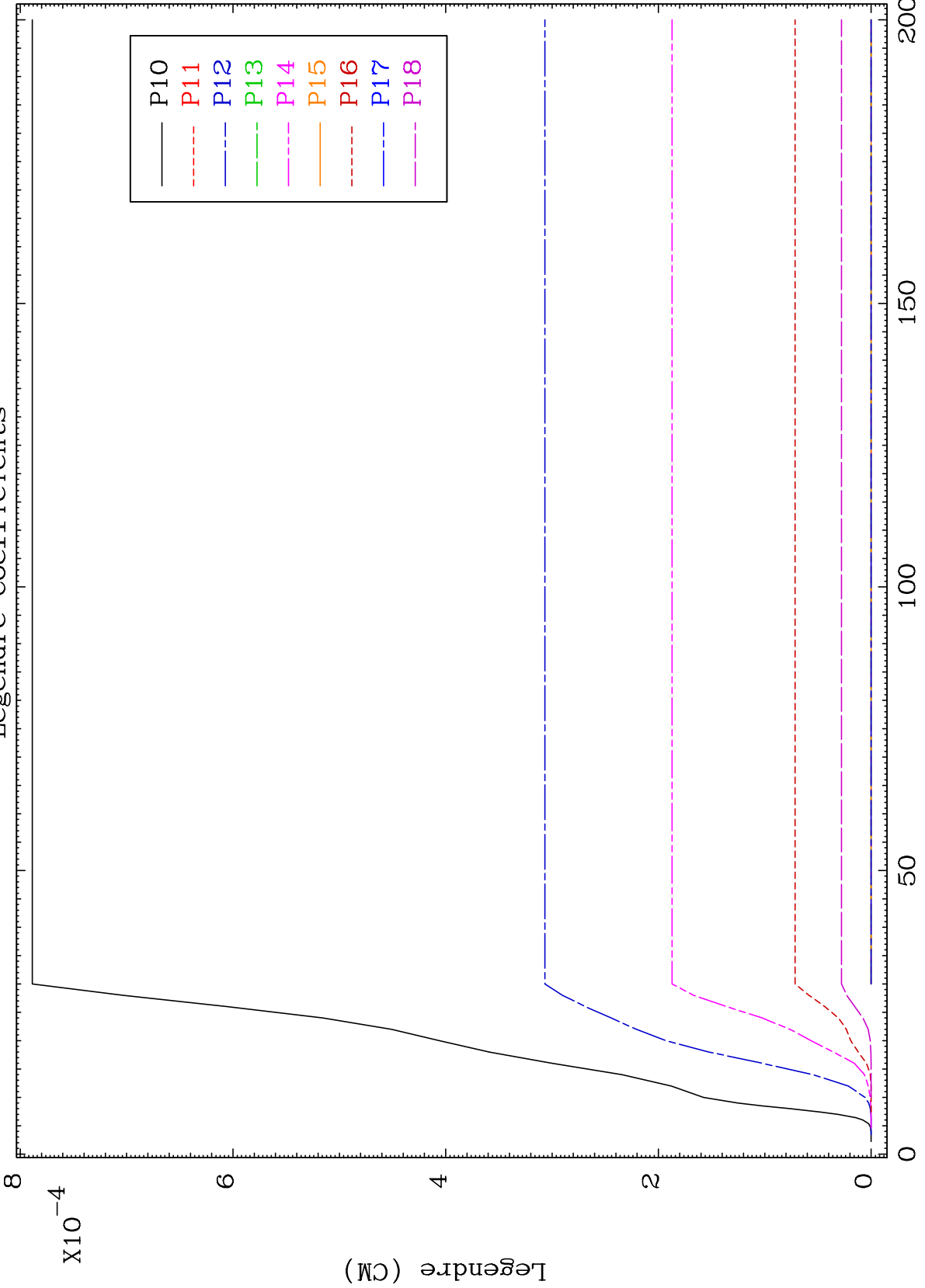


70 60-Nd-143

MAT 6028

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

60-Nd-143



71

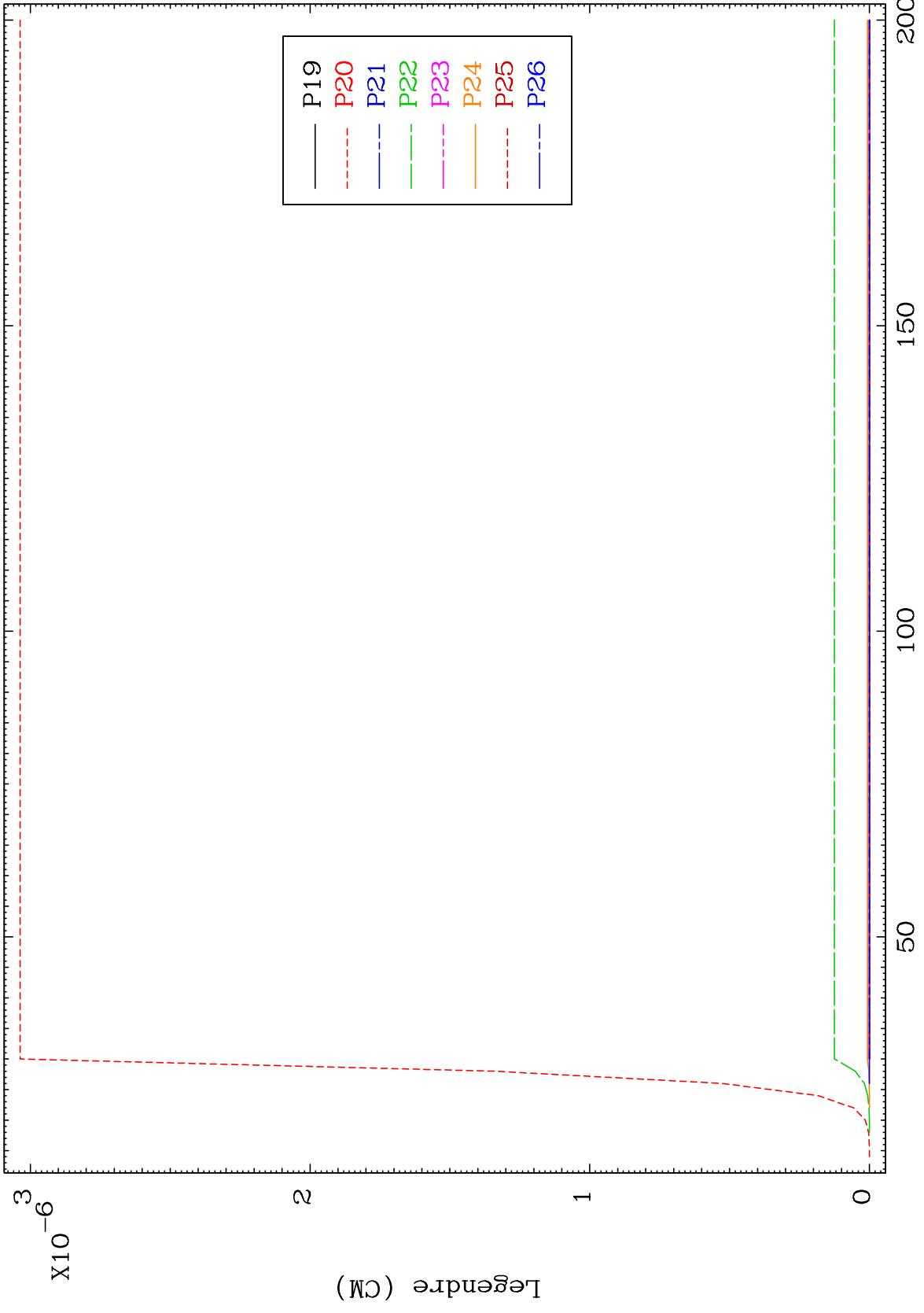
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143

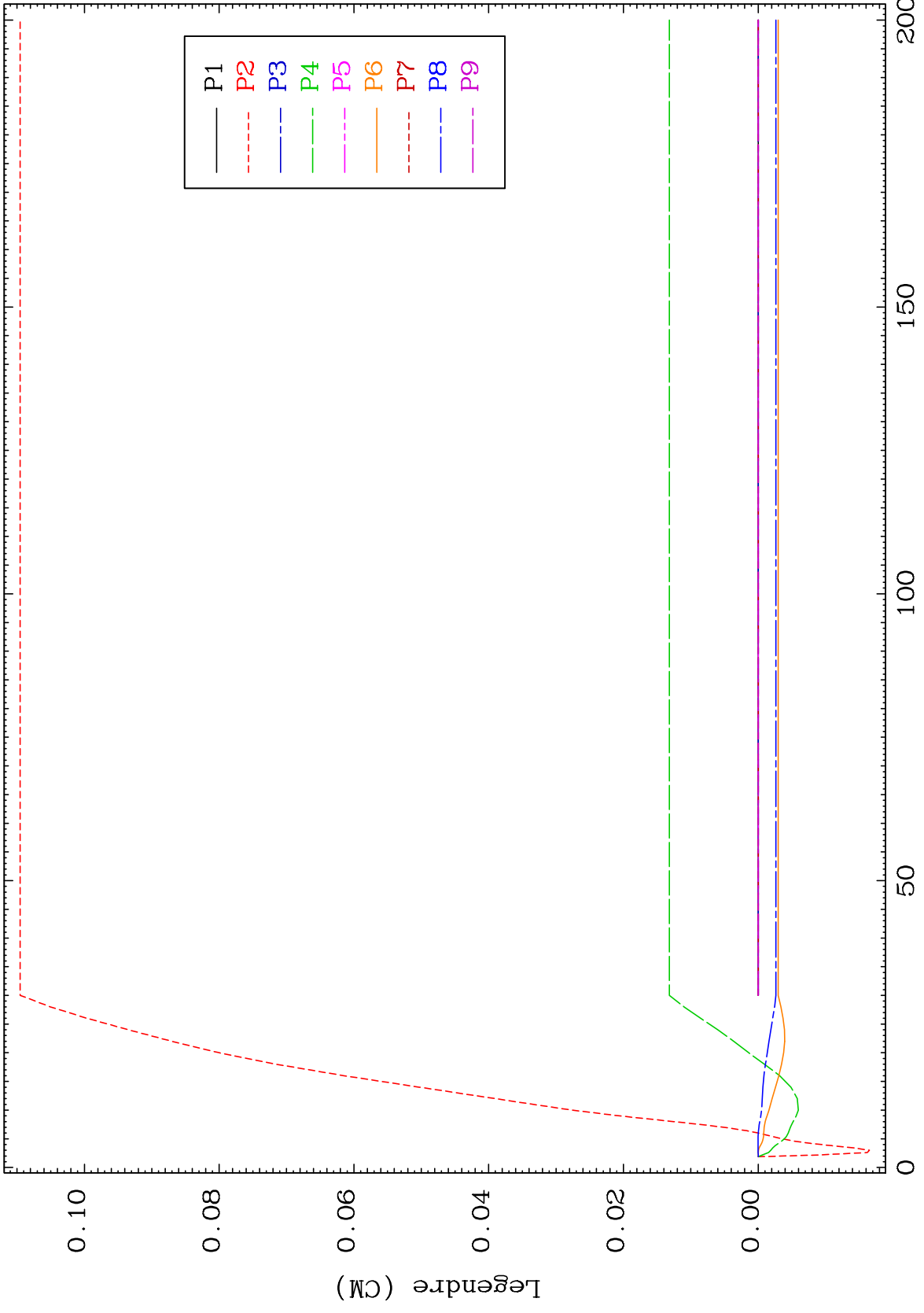


72

Incident Energy (MeV)

60-Nd-143

MAT 6028 MT= 66 (n,n') Level Legendre Coefficients 60-Nd-143

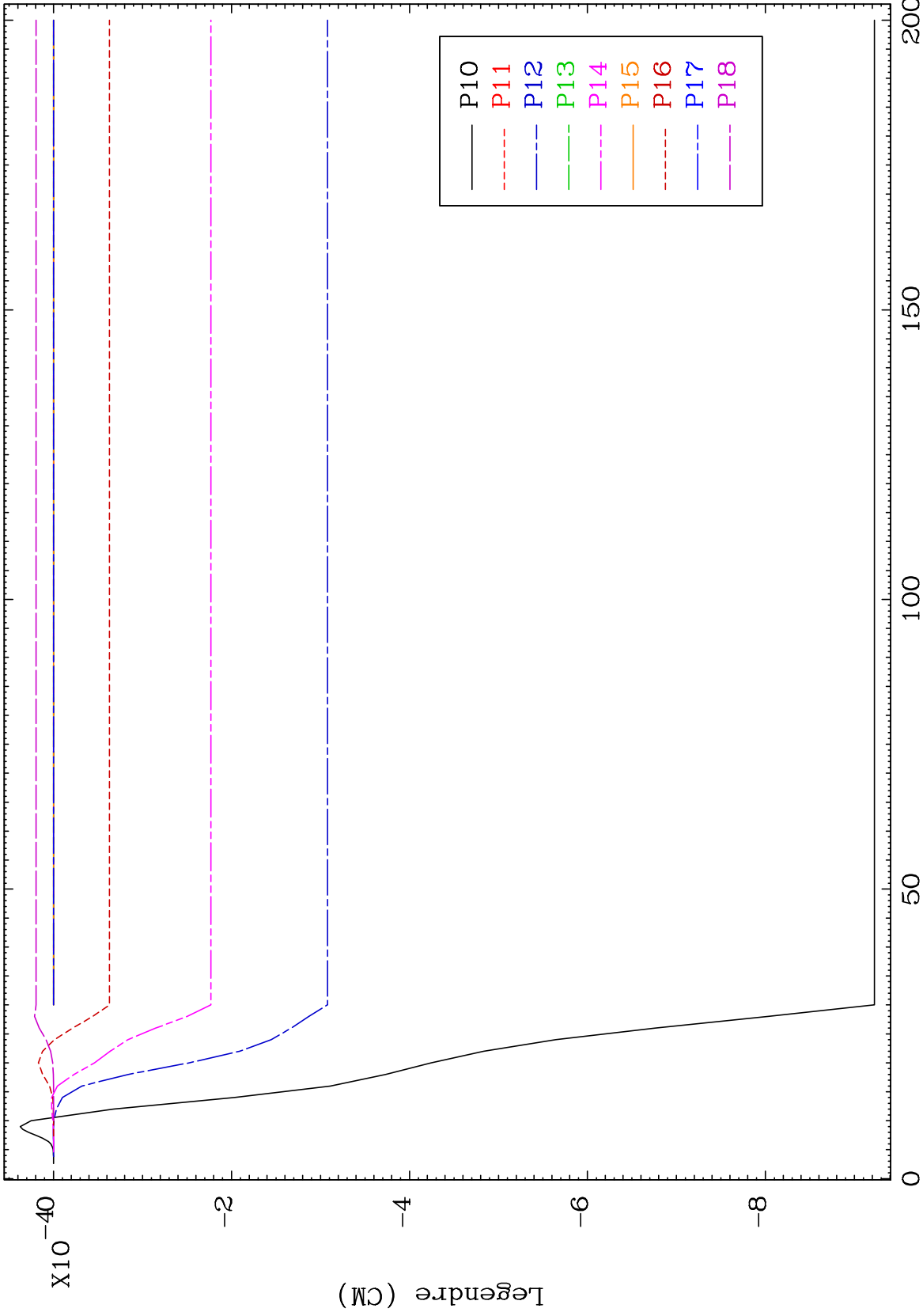


73 60-Nd-143

MAT 6028

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

60-Nd-143

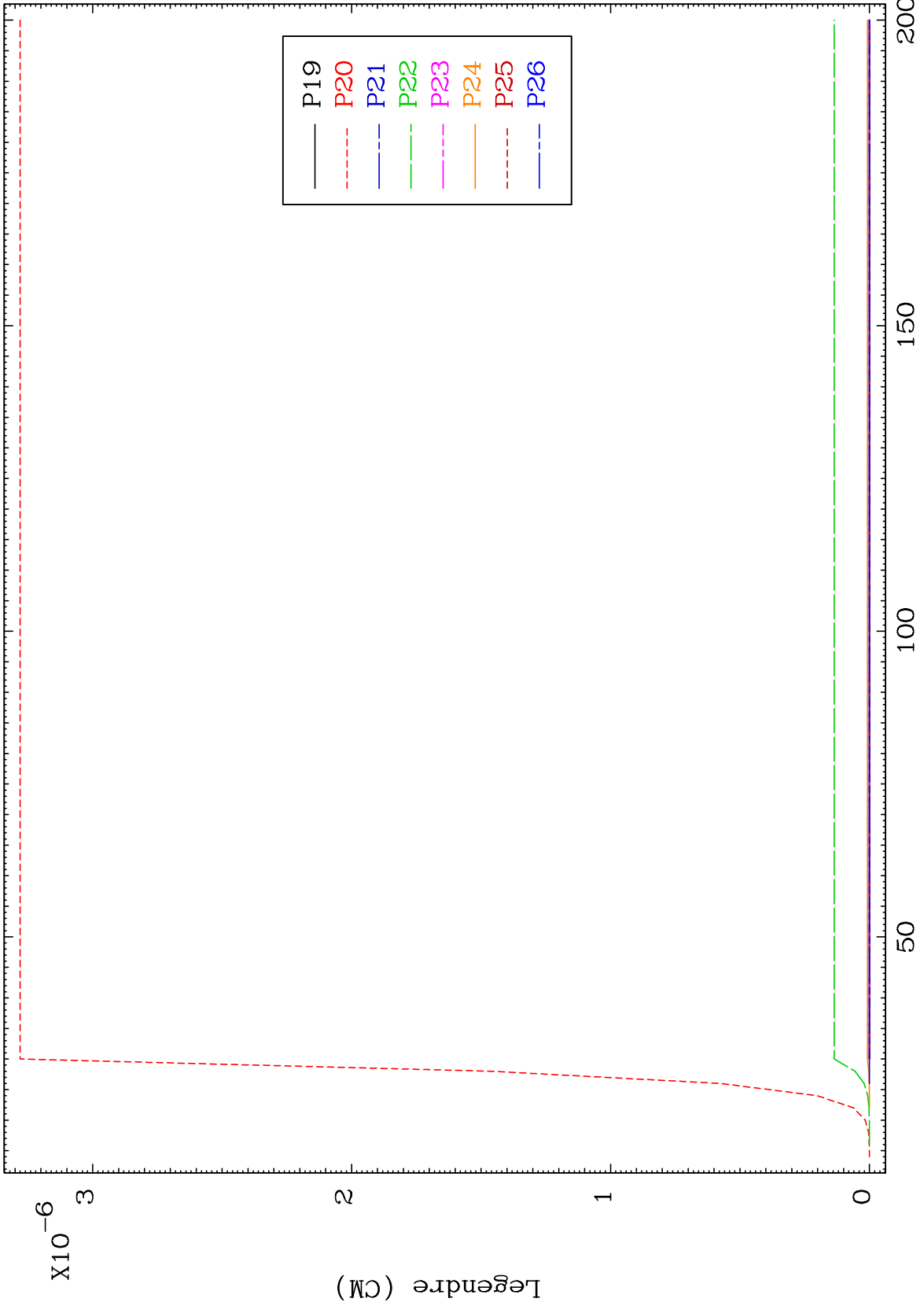


74

Incident Energy (MeV)

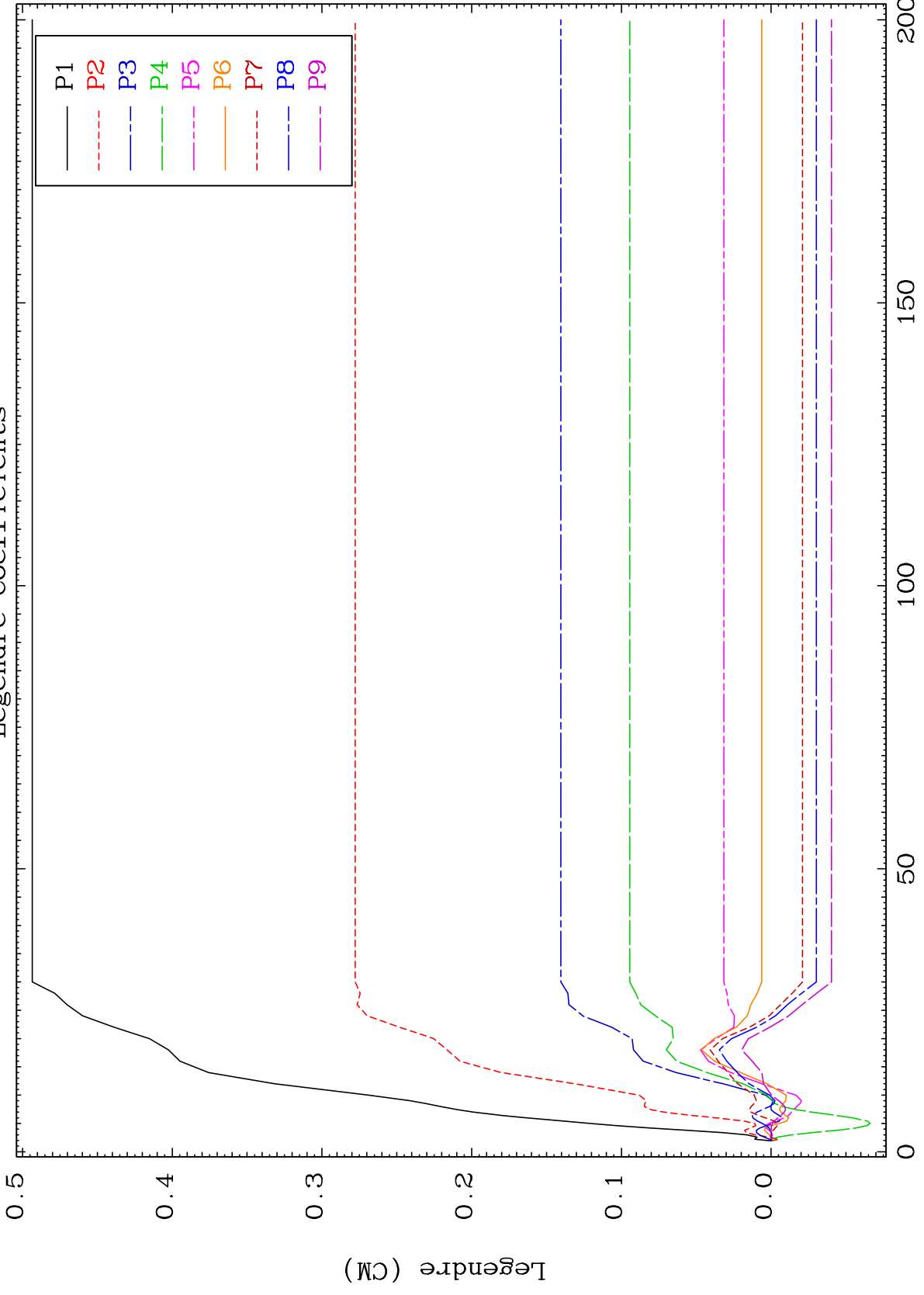
60-Nd-143

MAT 6028 MT= 66 (n,n') Level Legendre Coefficients 60-Nd-143



75 Incident Energy (MeV) 60-Nd-143

MAT 6028 MT= 67 (n,n') Level Legendre Coefficients 60-Nd-143

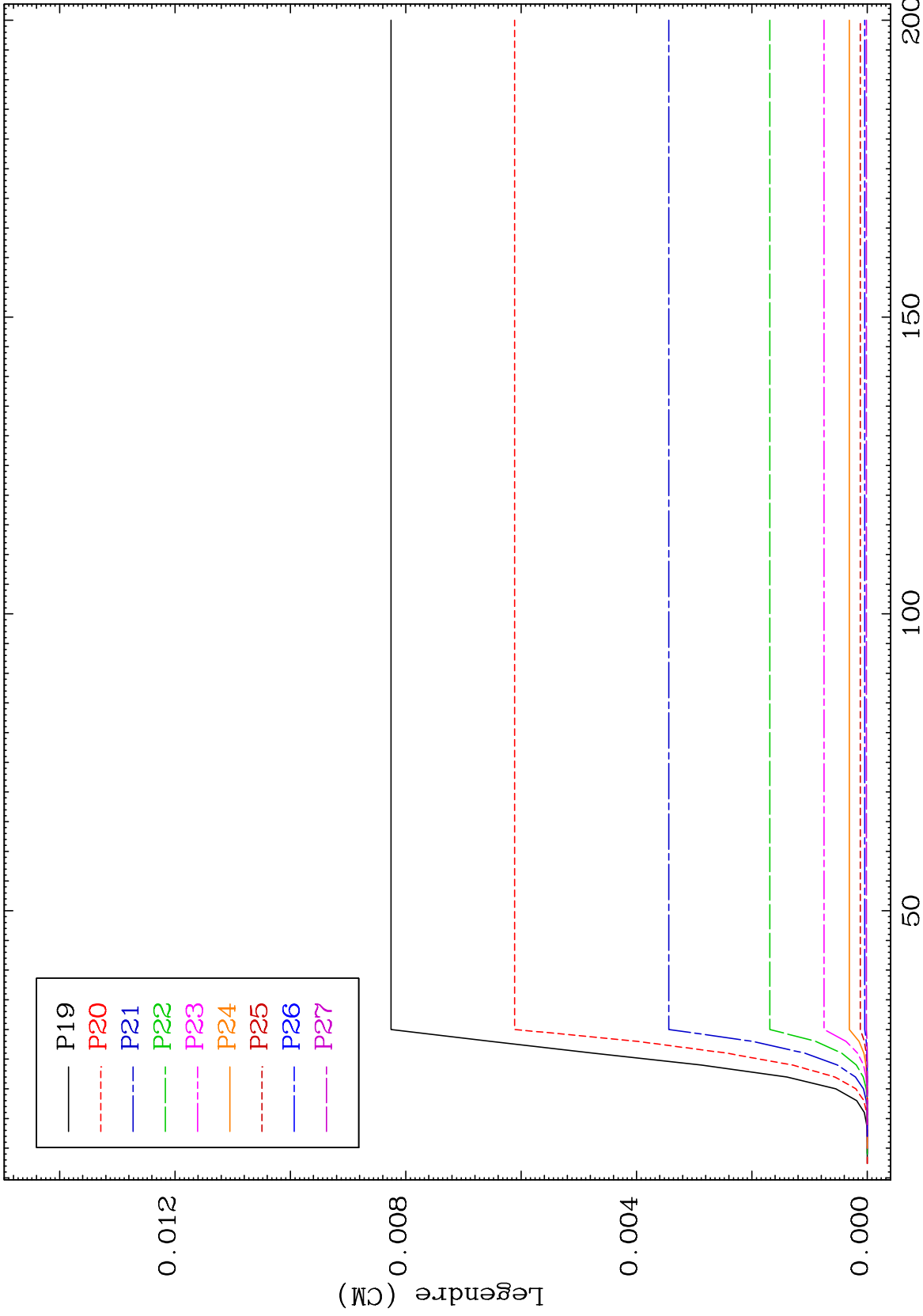


76 Incident Energy (MeV) 60-Nd-143

MAT 6028

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

60-Nd-143



78

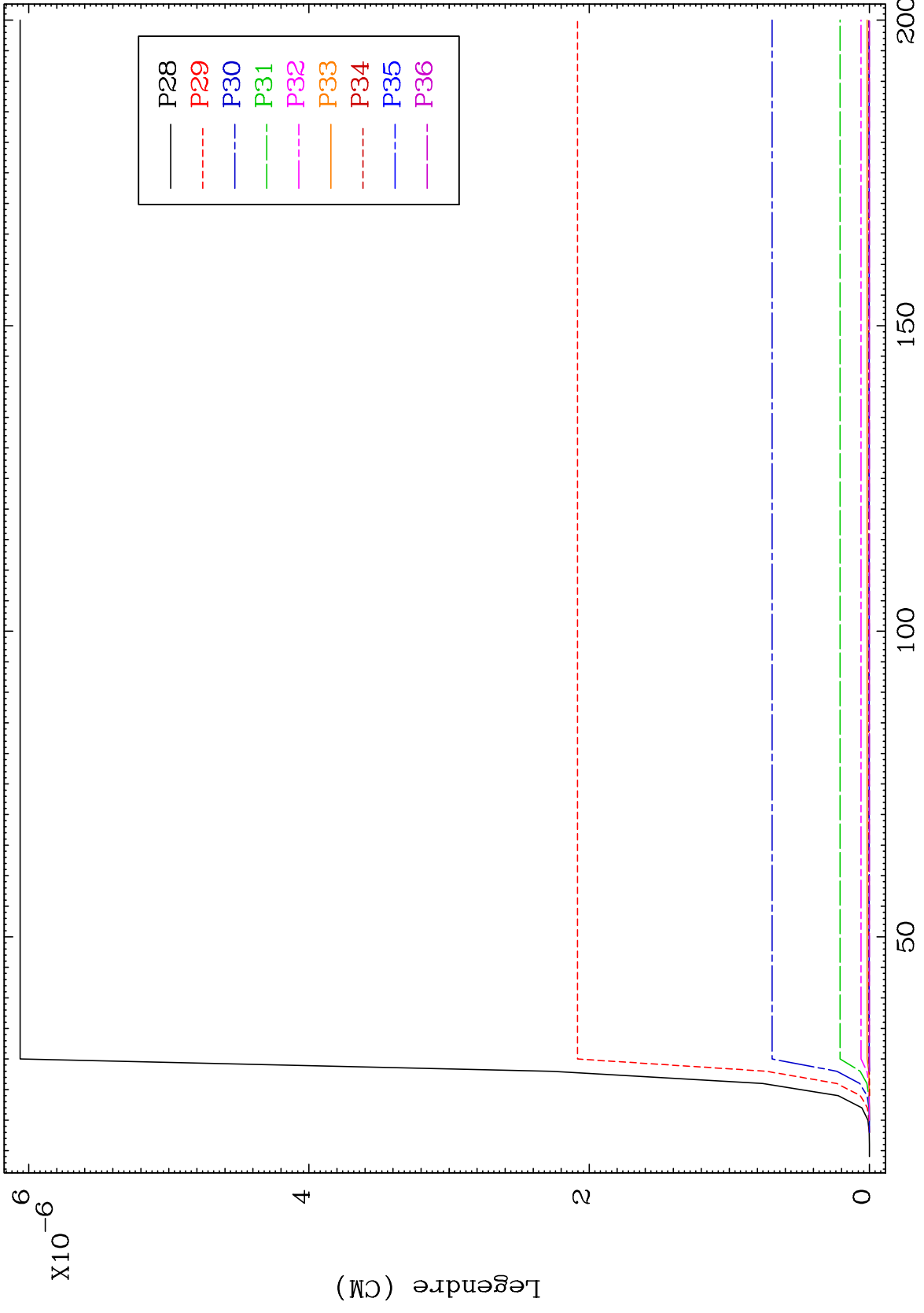
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

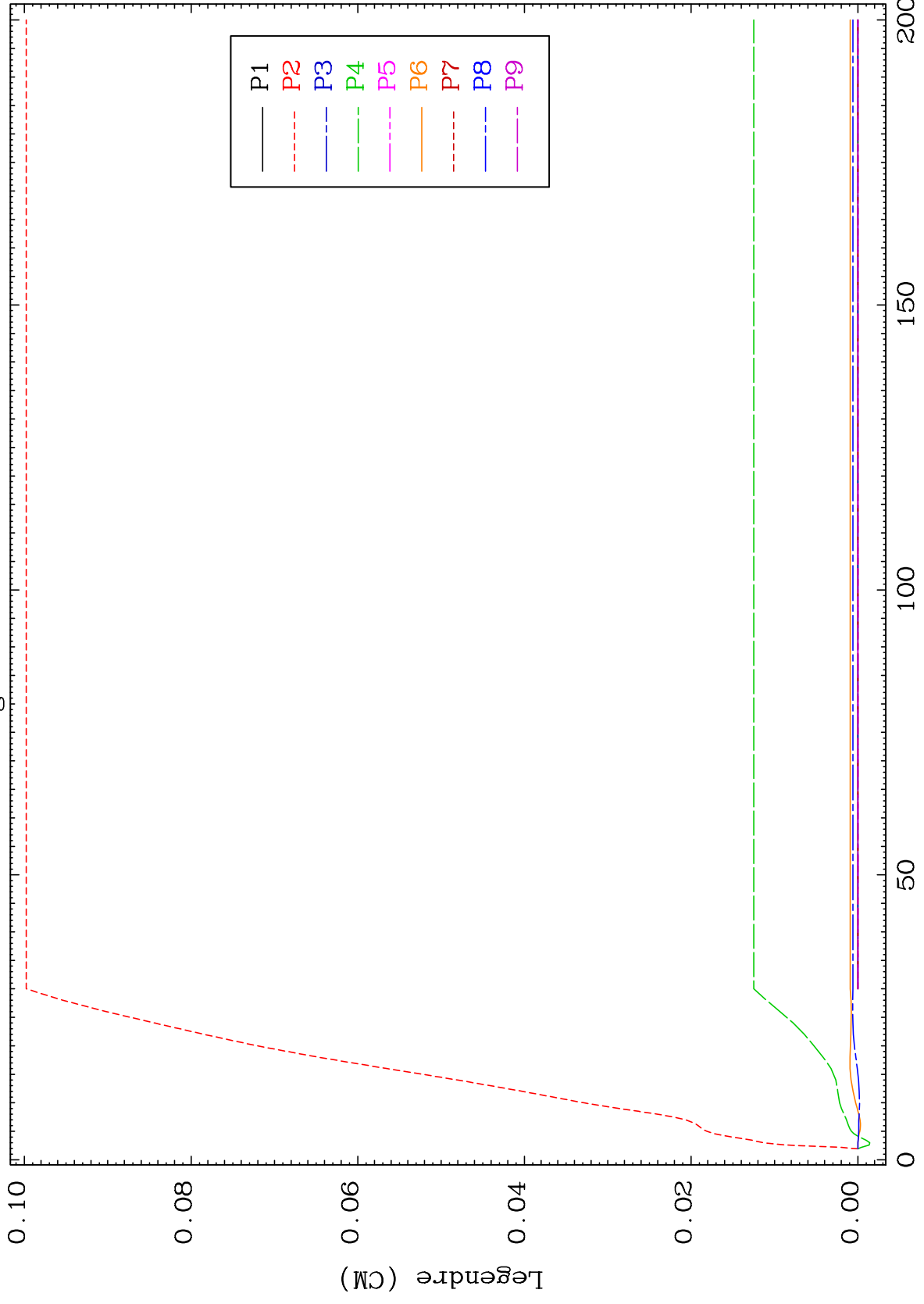
60-Nd-143



79

60-Nd-143

MAT 6028 MT= 68 (n,n') Level Legendre Coefficients 60-Nd-143

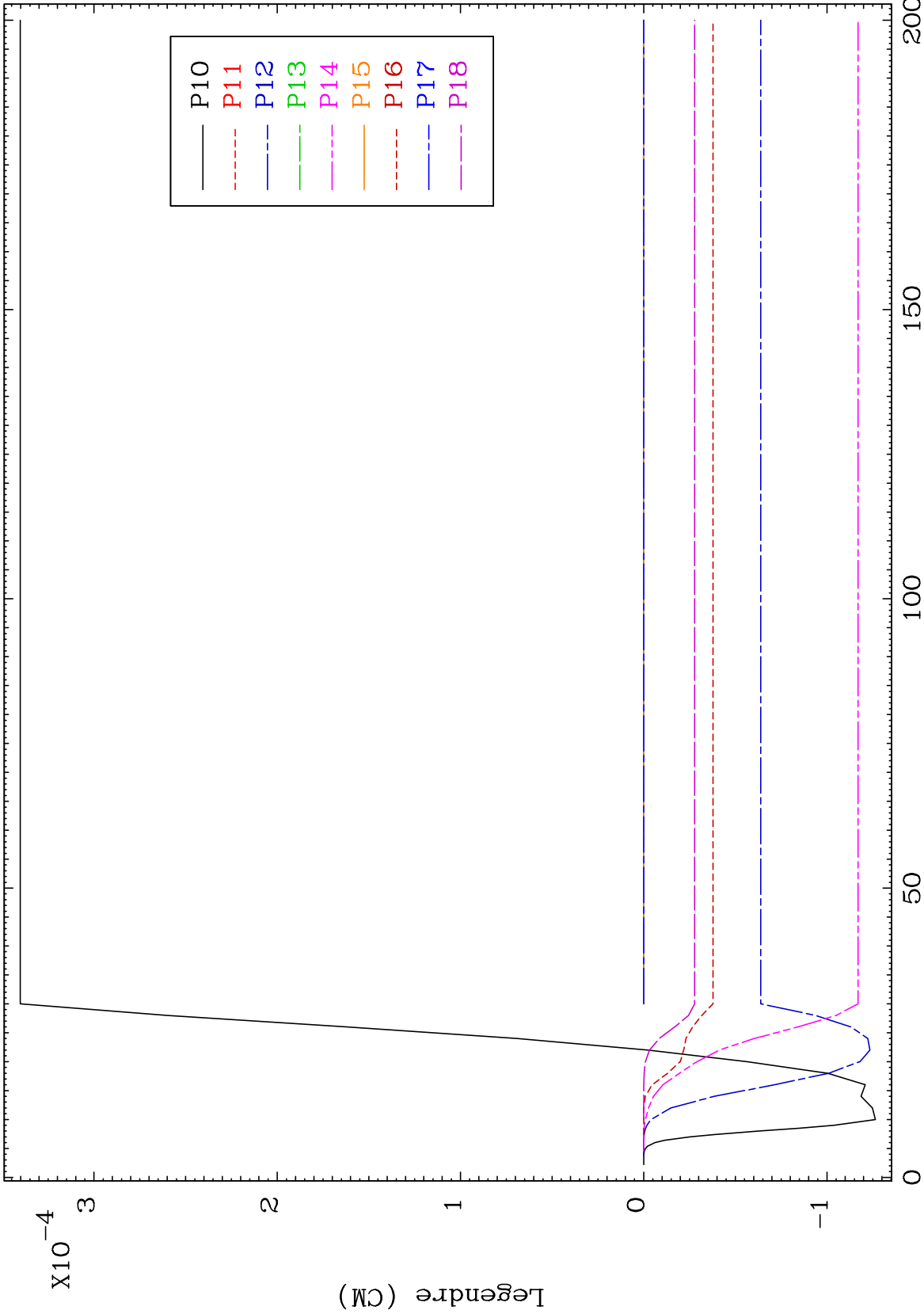


60-Nd-143

MAT 6028

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

60-Nd-143

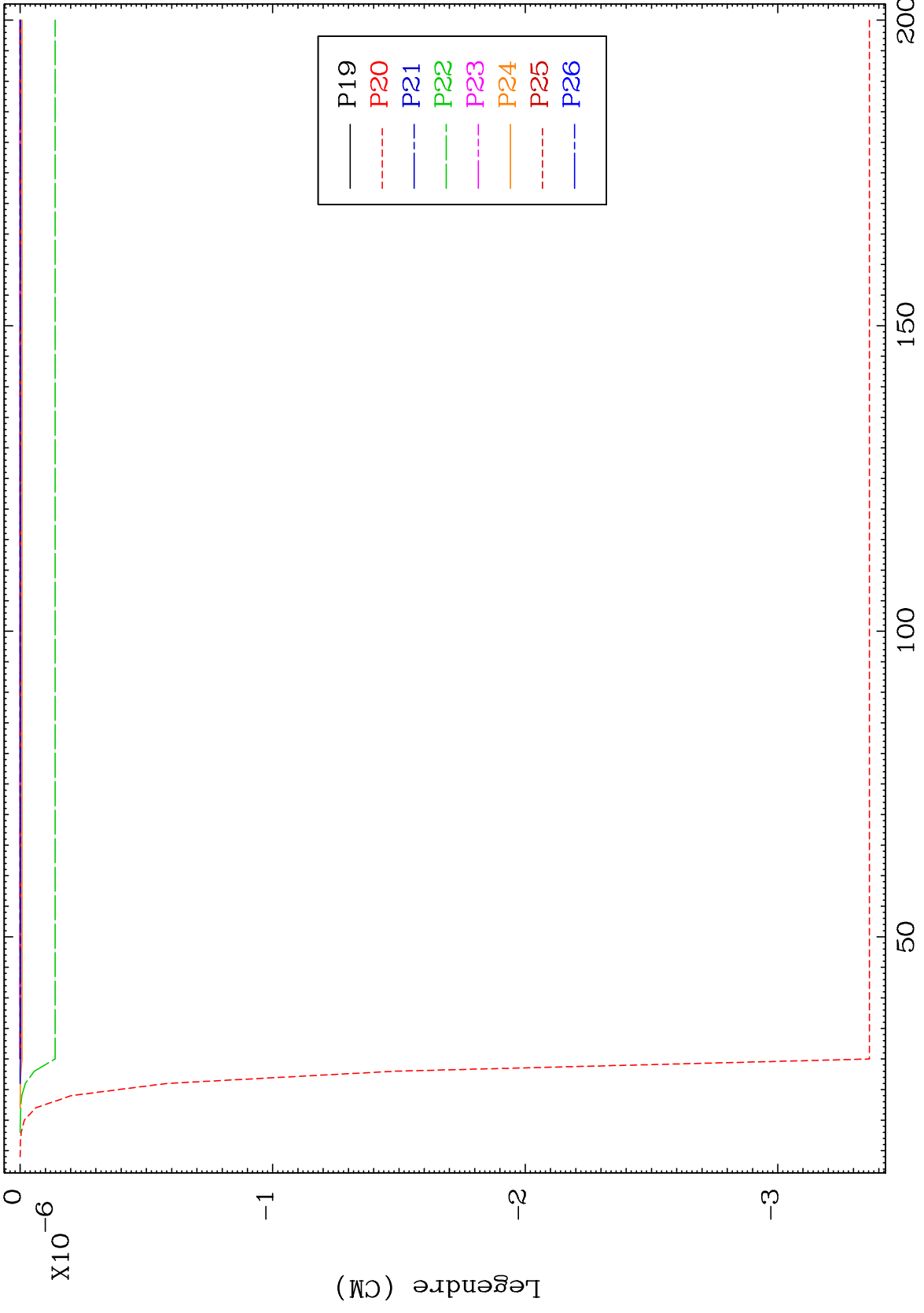


81

Incident Energy (MeV)

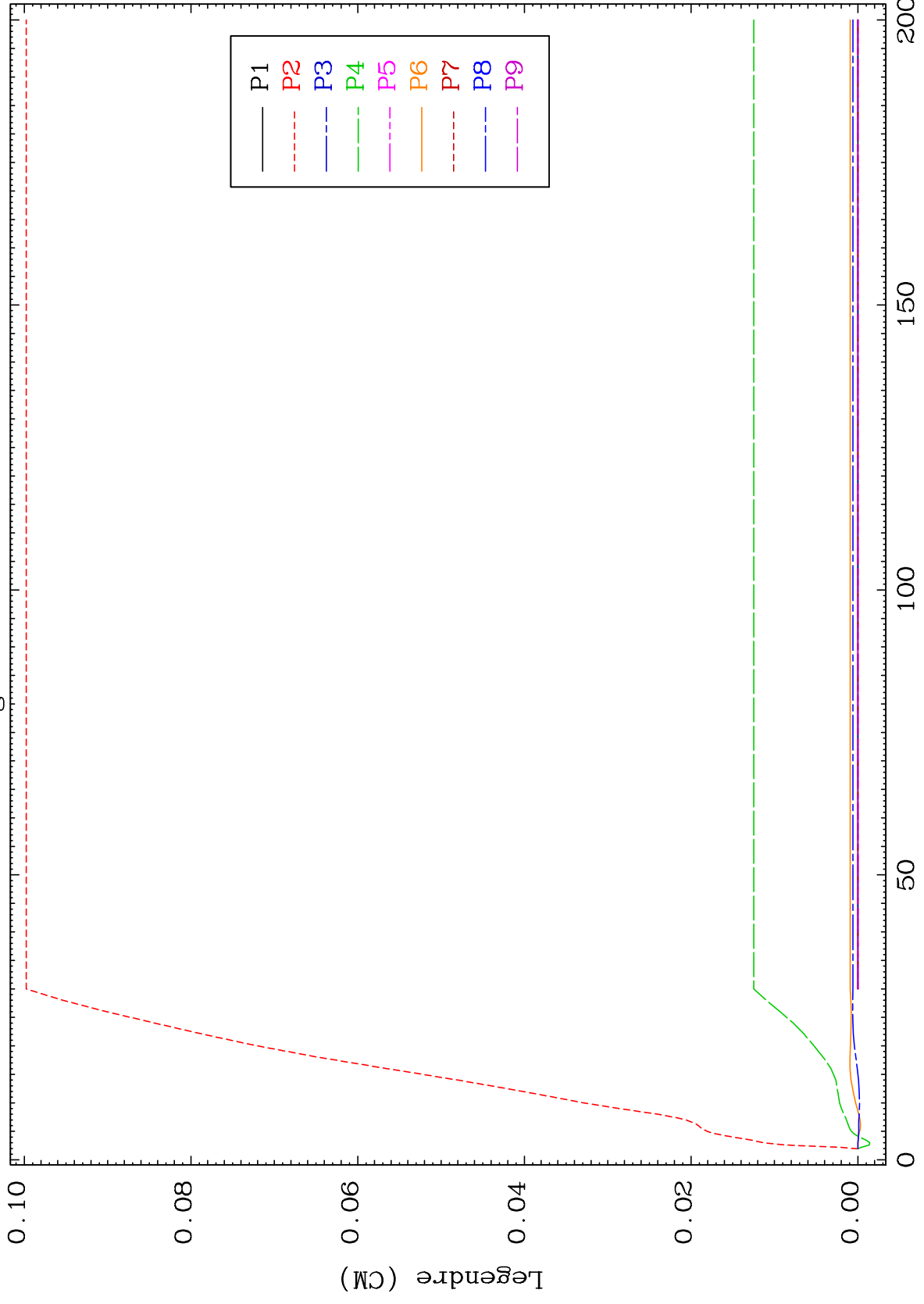
60-Nd-143

MAT 6028 MT= 68 (n,n') Level Legendre Coefficients 60-Nd-143



82 60-Nd-143

MAT 6028 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-143

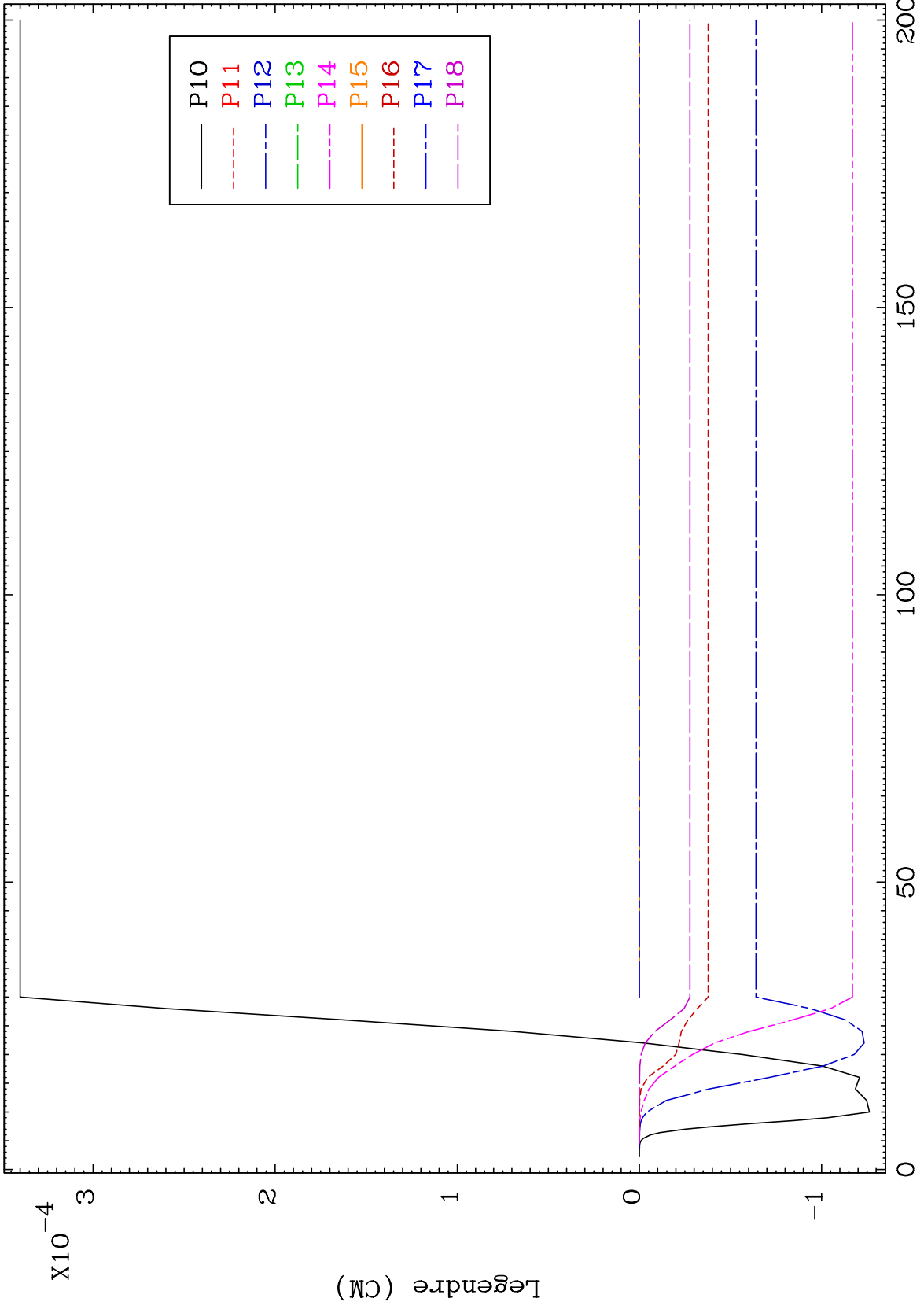


83 Incident Energy (MeV) 60-Nd-143

MAT 6028

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

60-Nd-143

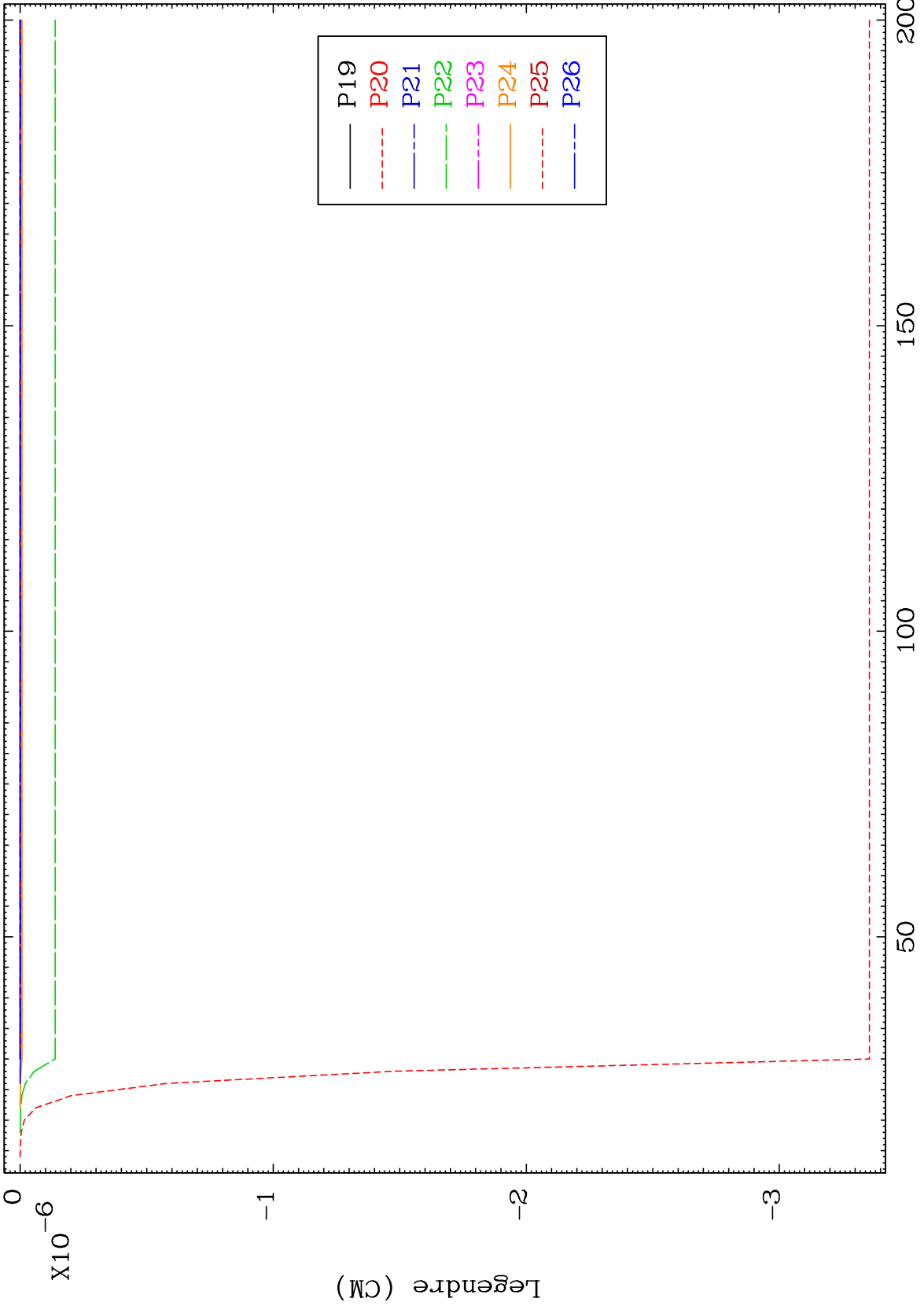


84

Incident Energy (MeV)

60-Nd-143

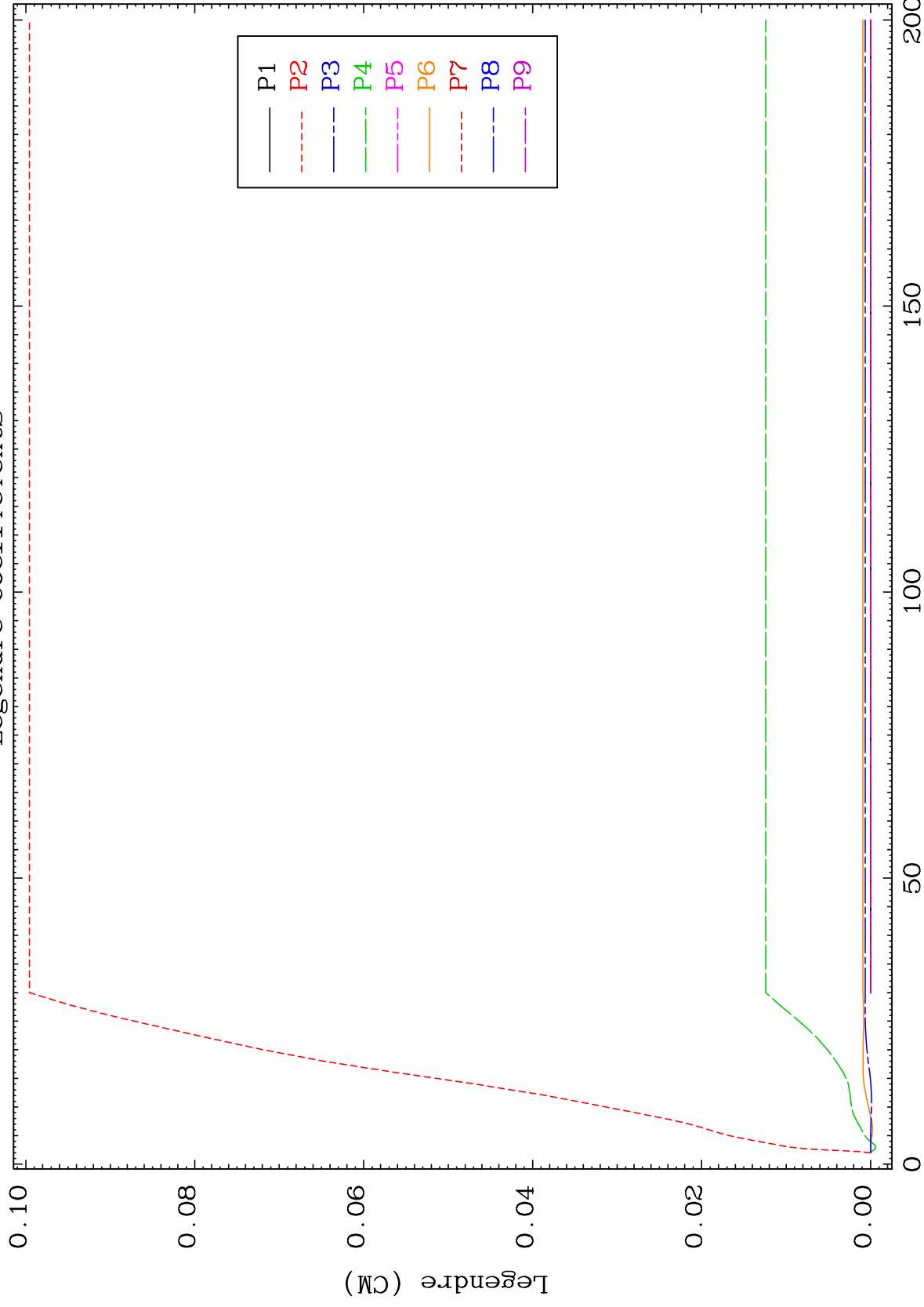
MAT 6028 MT= 69 (n,n') Level Legendre Coefficients 60-Nd-143



85 60-Nd-143

MAT 6028 MT= 70 (n,n') Level Legendre Coefficients

60-Nd-143



60-Nd-143

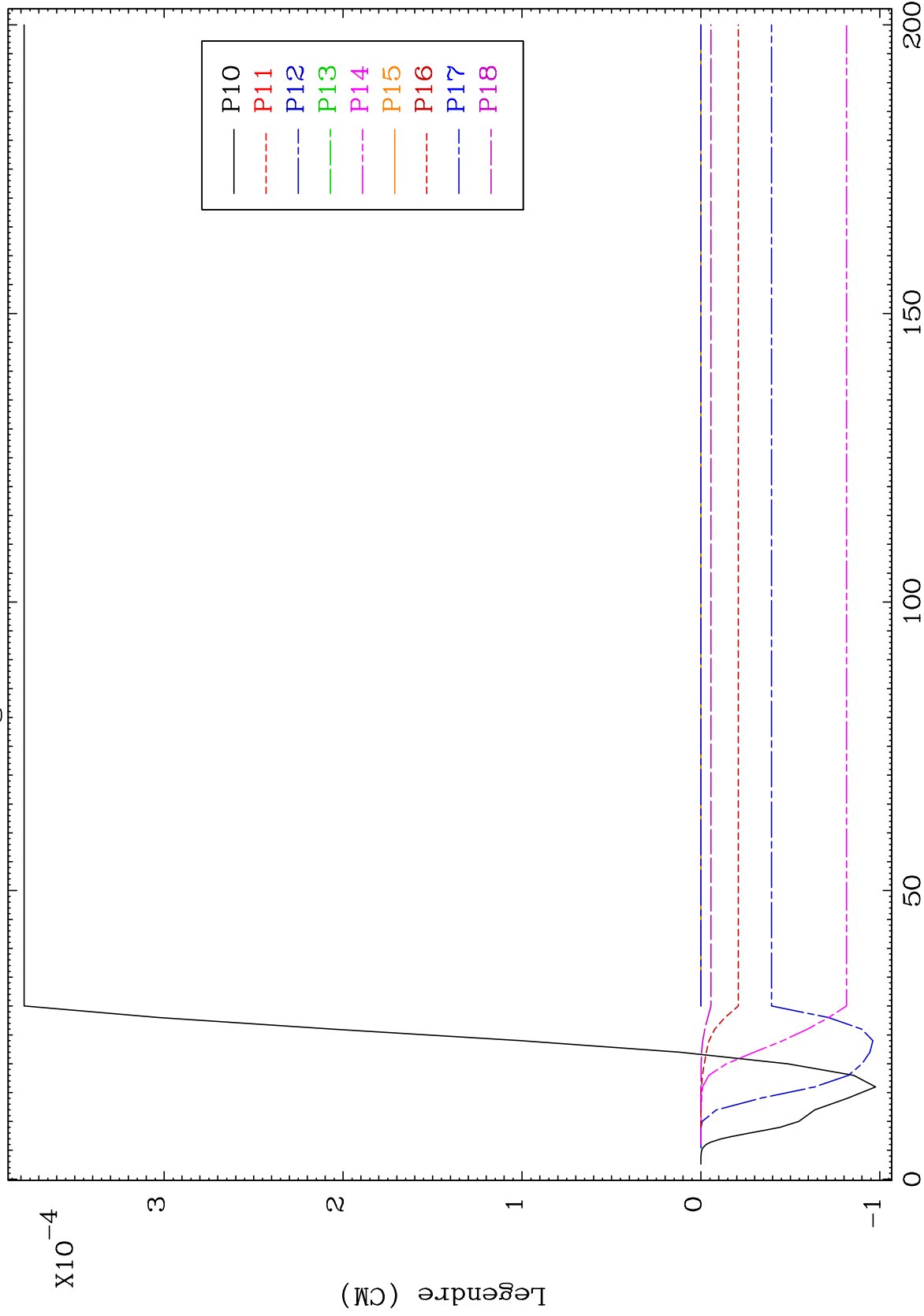
Incident Energy (MeV)

86

MAT 6028

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

60-Nd-143



87

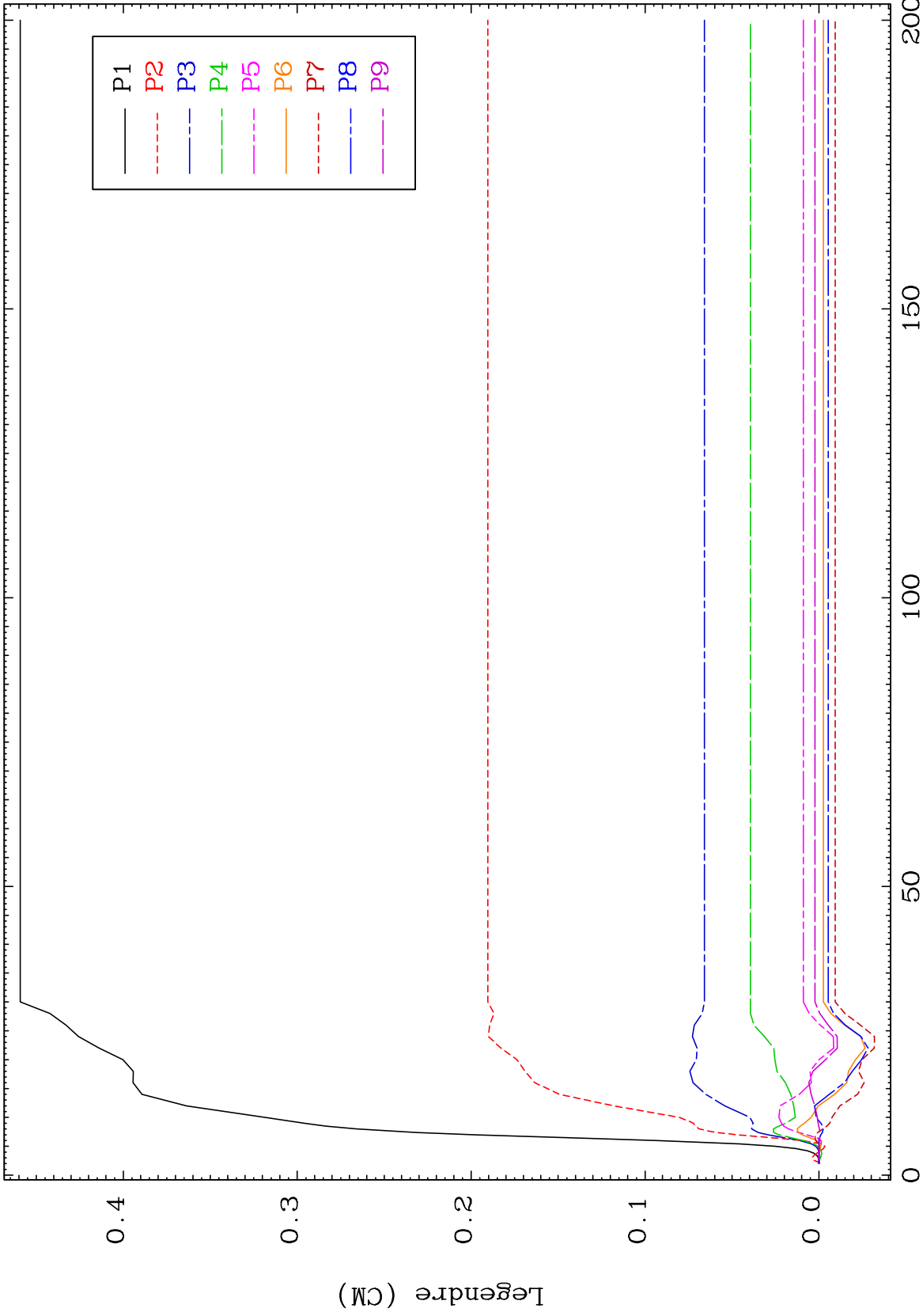
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143



89

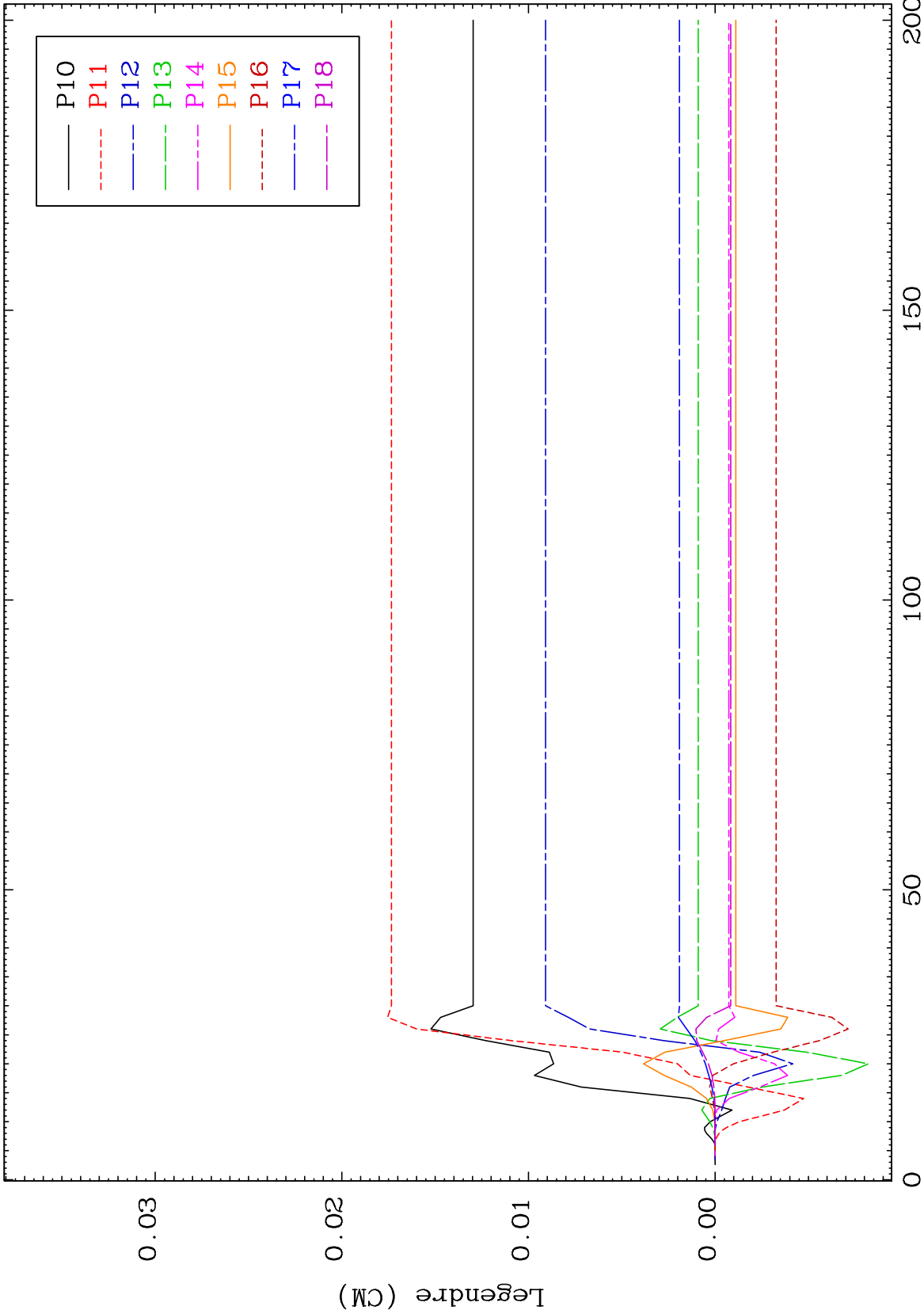
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143



90

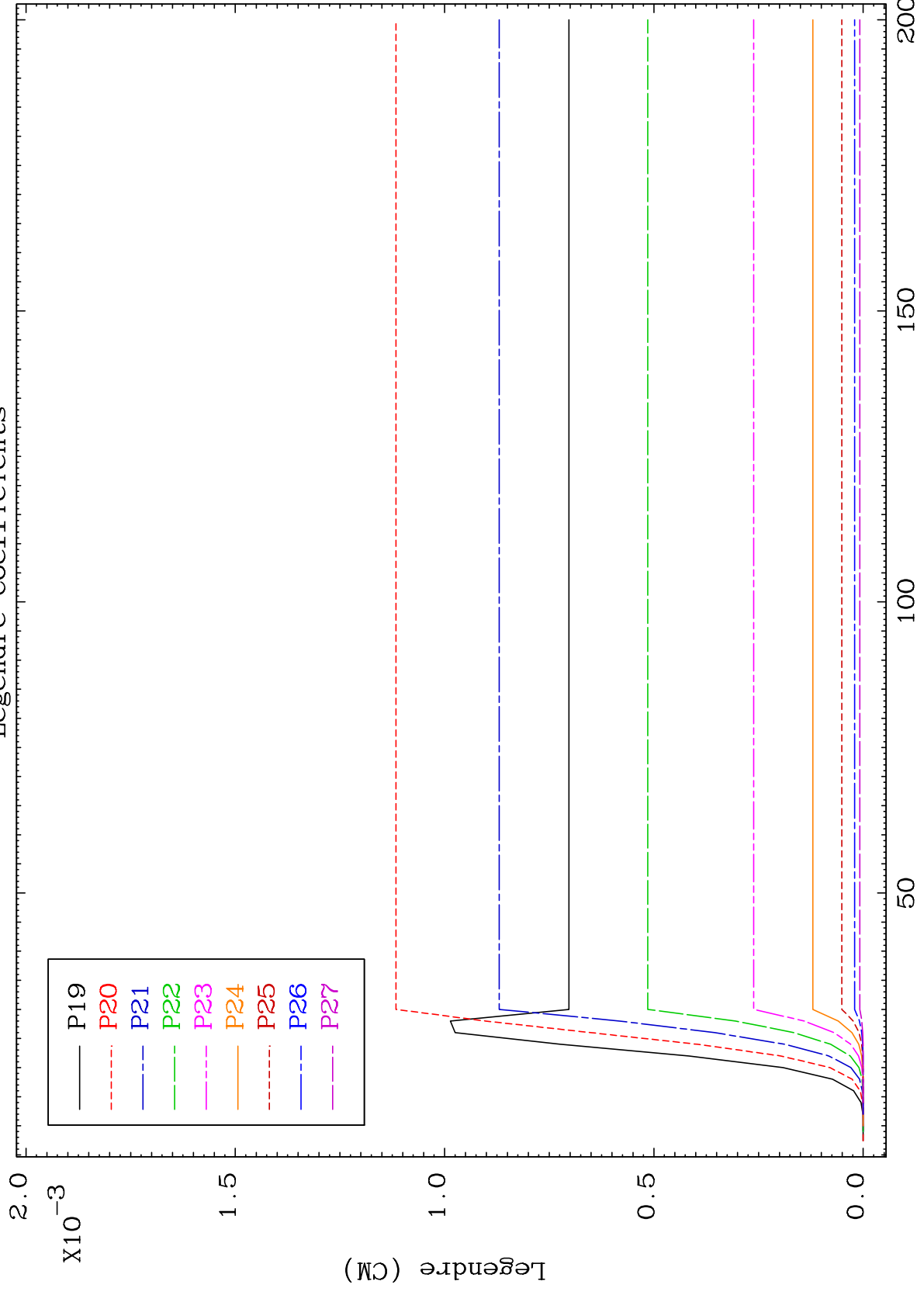
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143



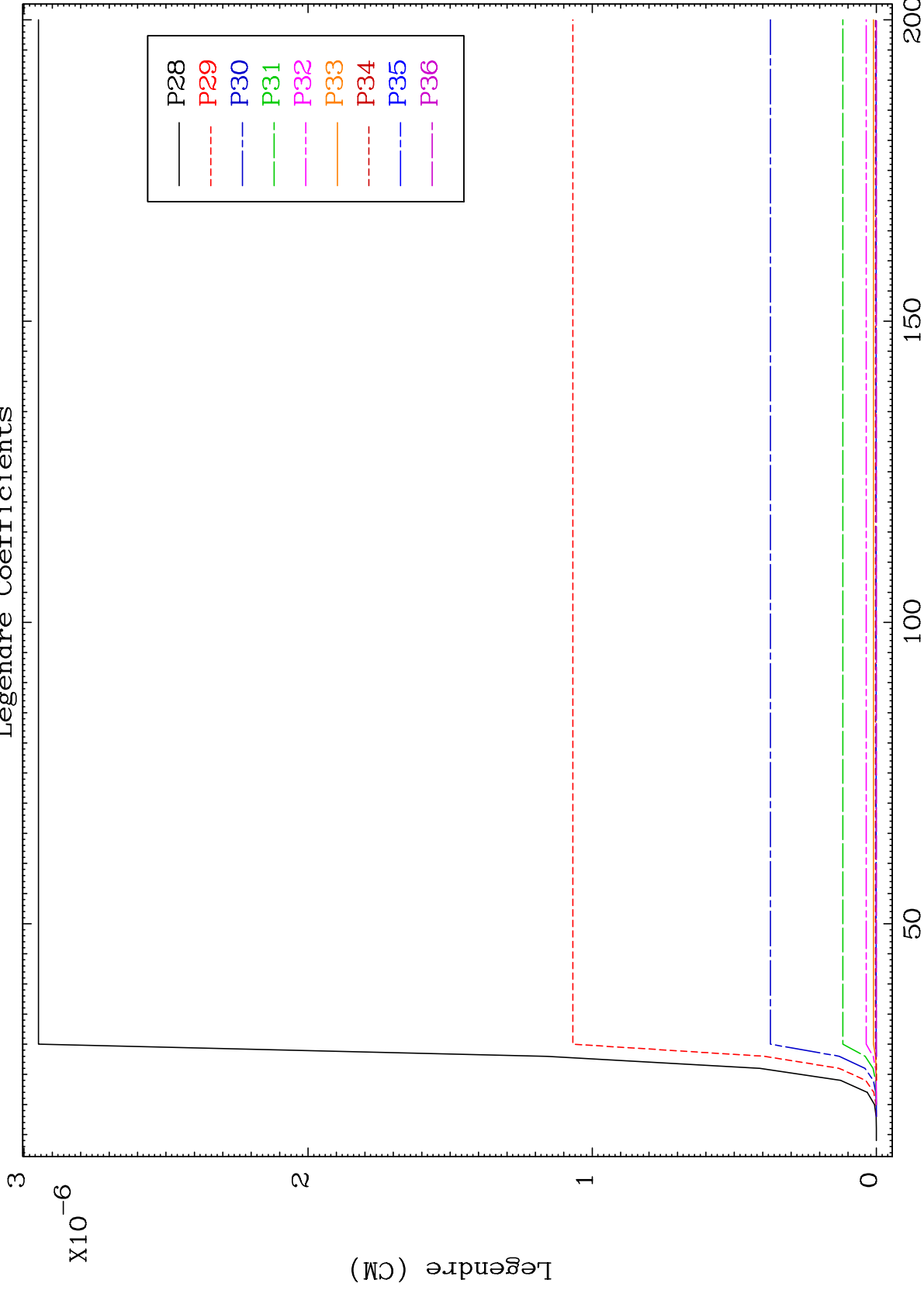
91

60-Nd-143

MAT 6028

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

60-Nd-143

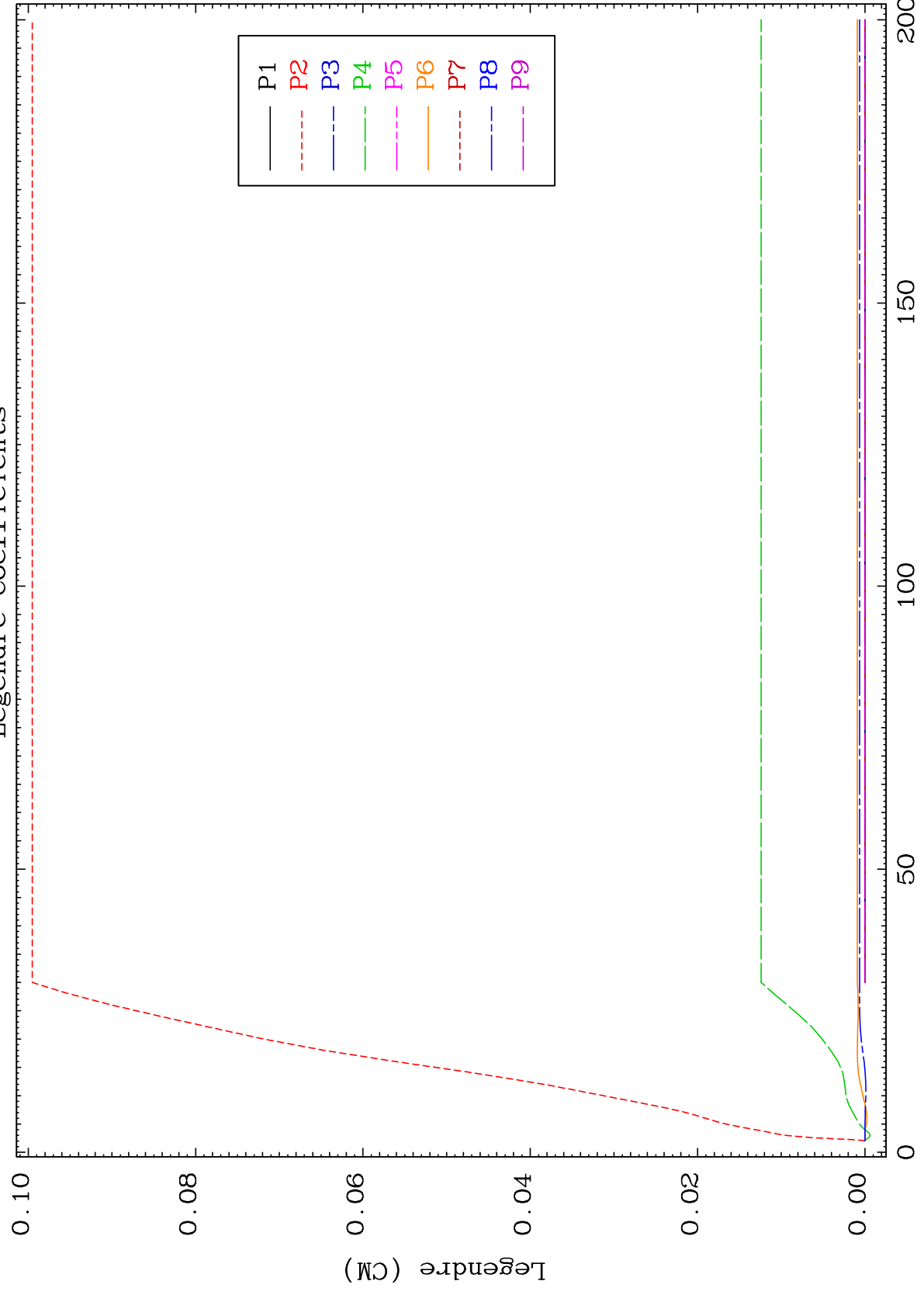


92

60-Nd-143

MAT 6028 MT= 72 (n,n') Level Legendre Coefficients

60-Nd-143



60-Nd-143

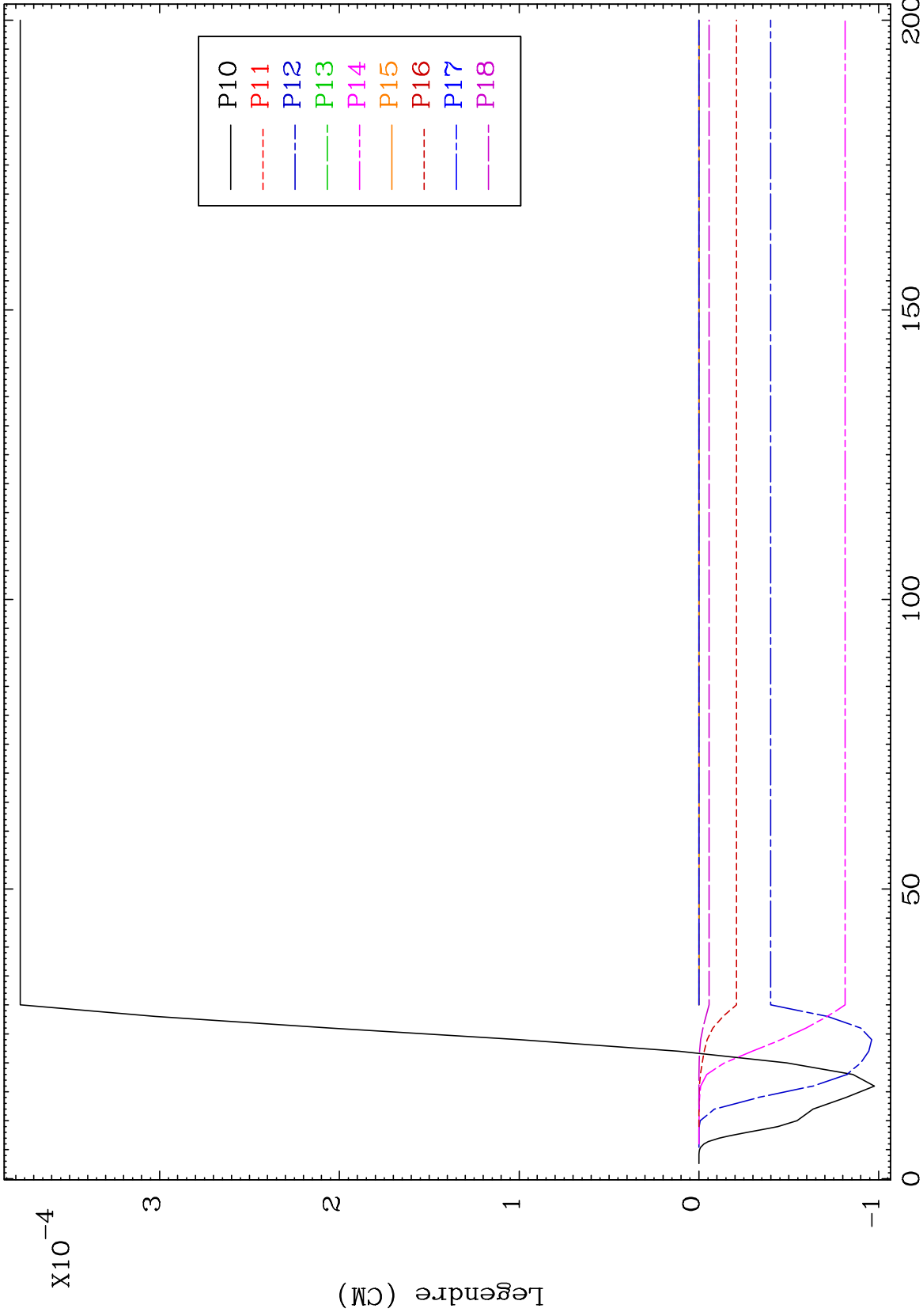
Incident Energy (MeV)

93

MAT 6028

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

60-Nd-143



94

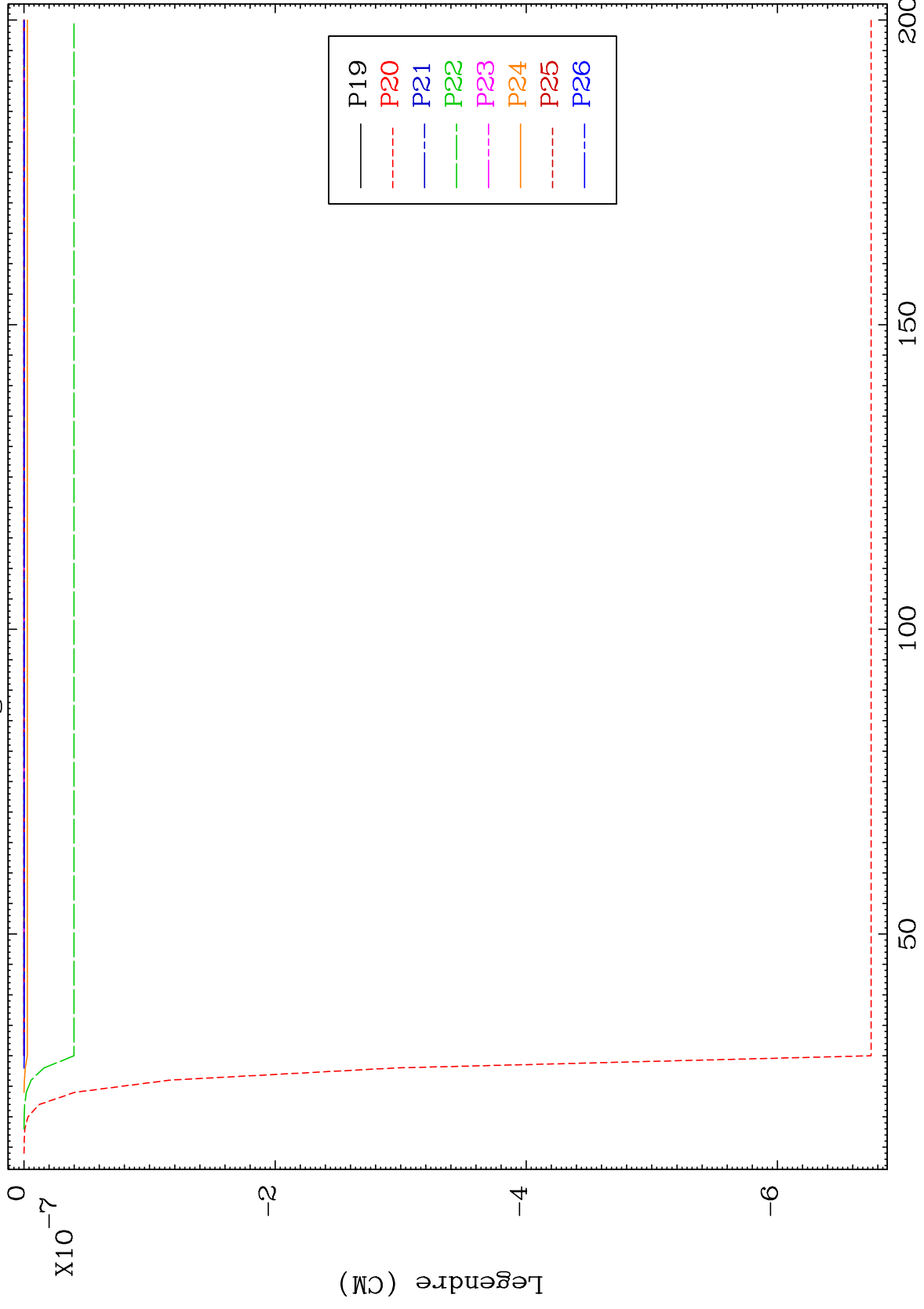
Incident Energy (MeV)

60-Nd-143

MAT 6028

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

60-Nd-143



60-Nd-143

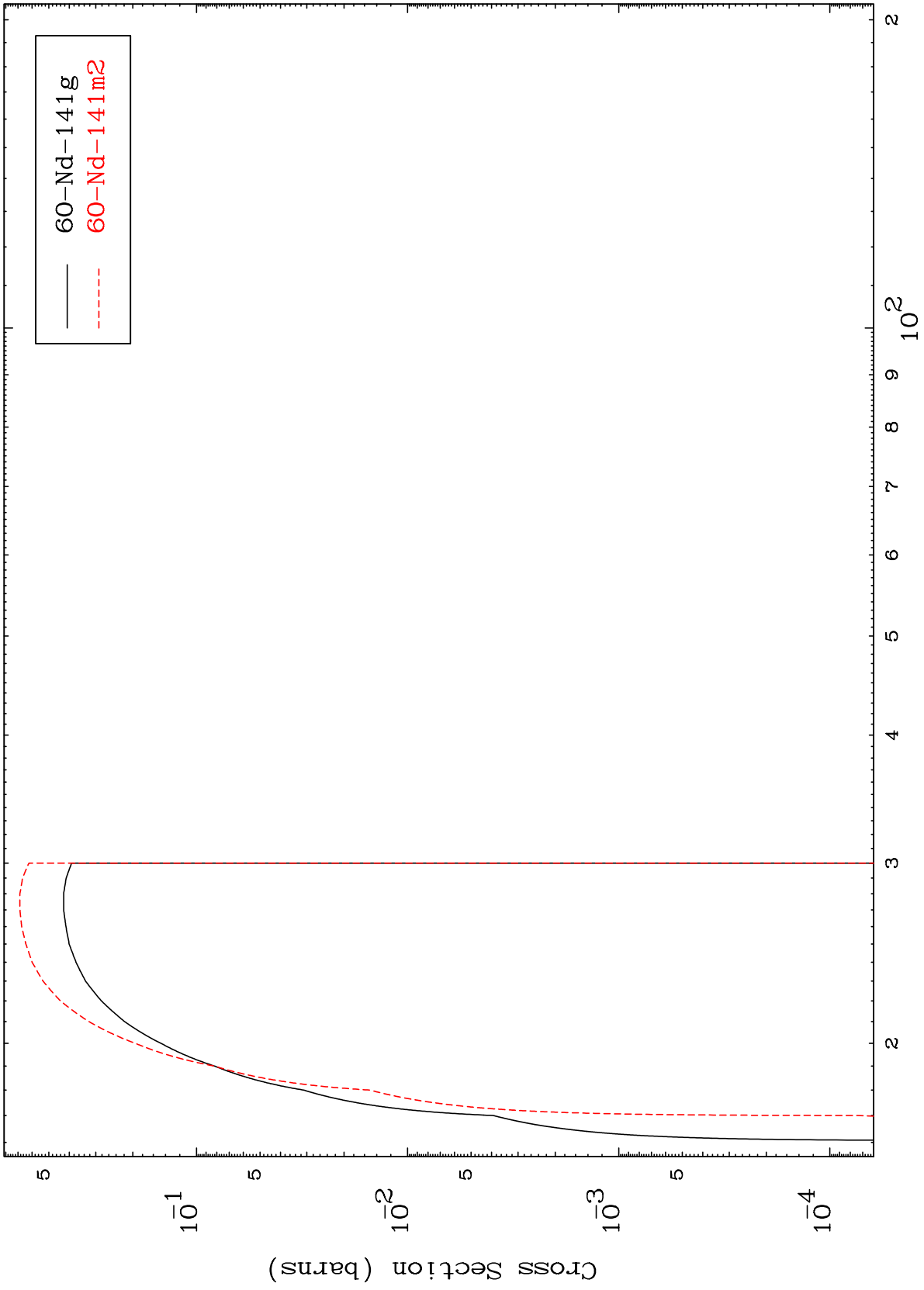
Incident Energy (MeV)

95

MAT 6028

60-Nd-143

(n,3n)
Radionuclide Production Cross Section



96

Incident Energy (MeV)

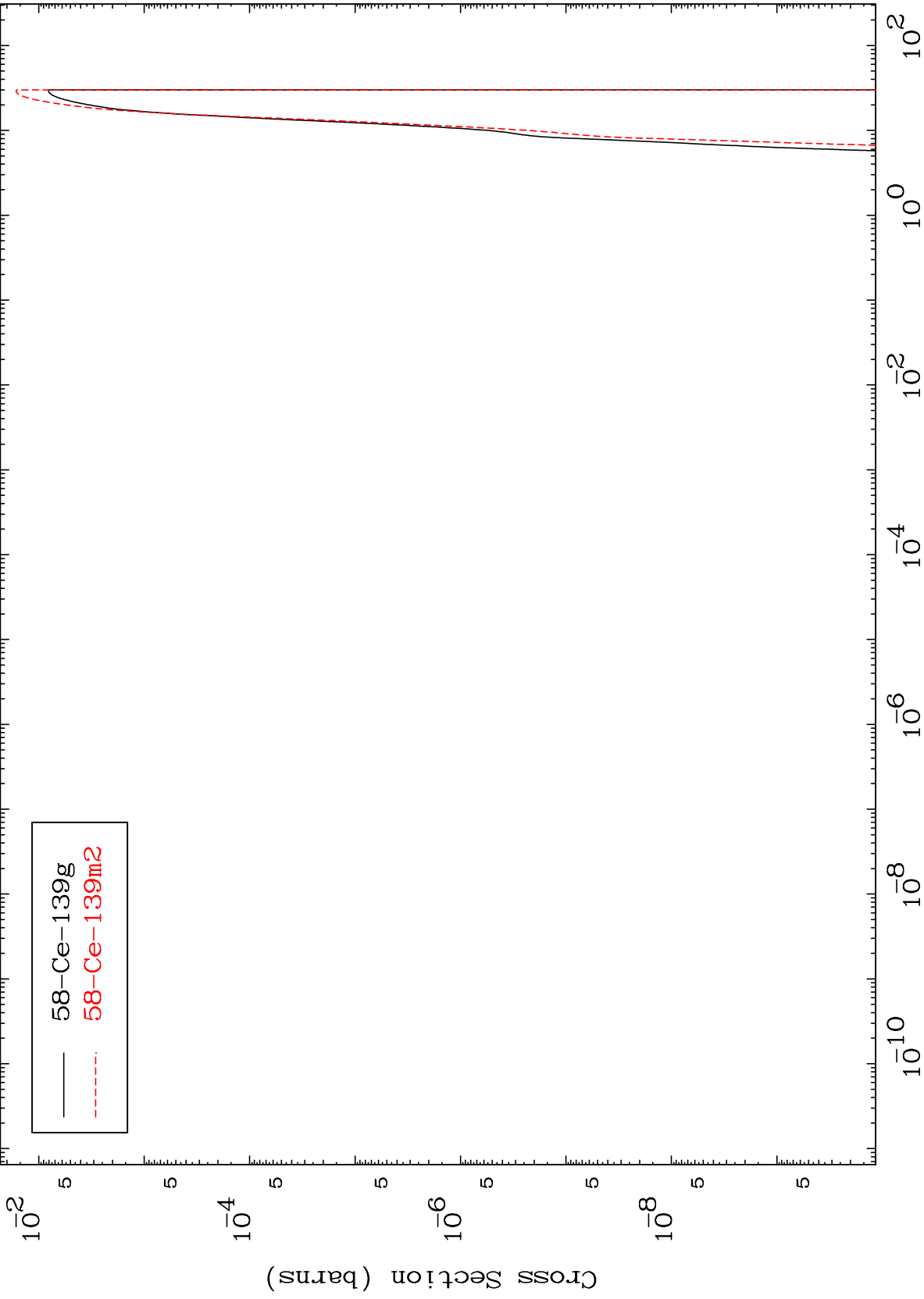
60-Nd-143

MAT 6028

(n,n') α

60-Nd-143

Radionuclide Production Cross Section

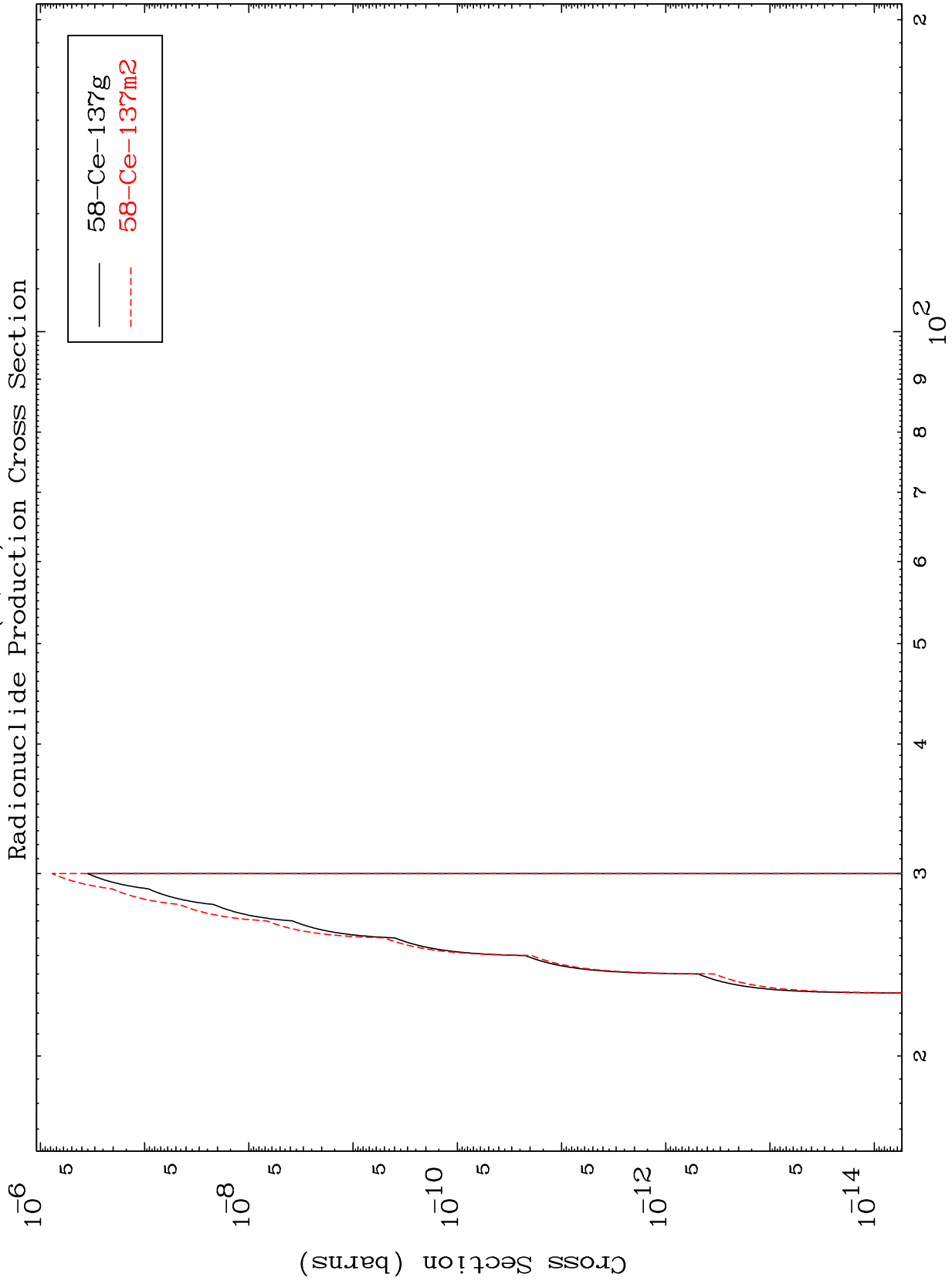


58-Ce-139g
58-Ce-139m2

MAT 6028

(n,3n) α

$^{60}\text{Nd}-143$



98

Incident Energy (MeV)

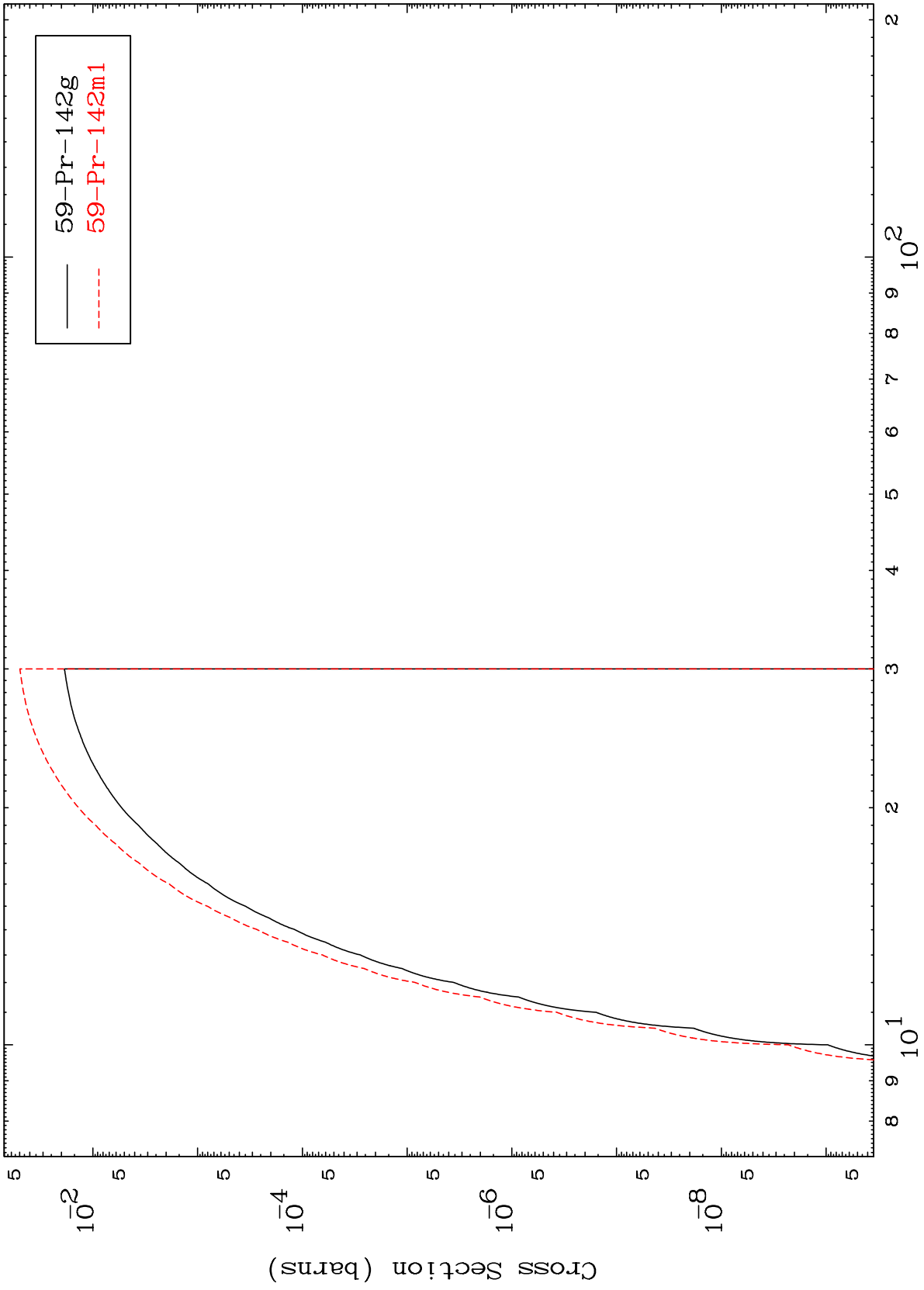
$^{60}\text{Nd}-143$

MAT 6028

(n,n') p

60-Nd-143

Radionuclide Production Cross Section



99

Incident Energy (MeV)

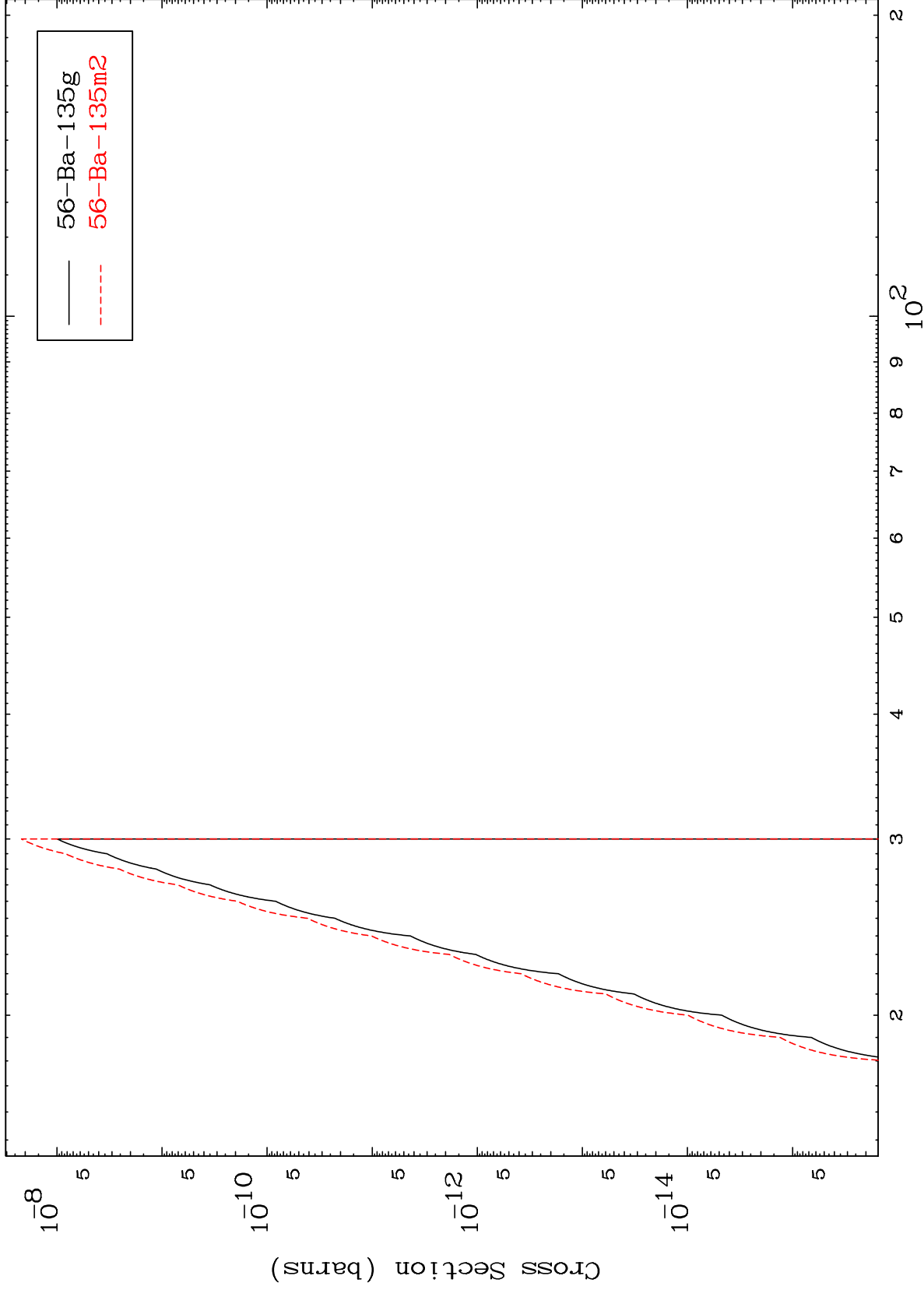
60-Nd-143

MAT 6028

(n,n') 2 α

60-Nd-143

Radionuclide Production Cross Section



100

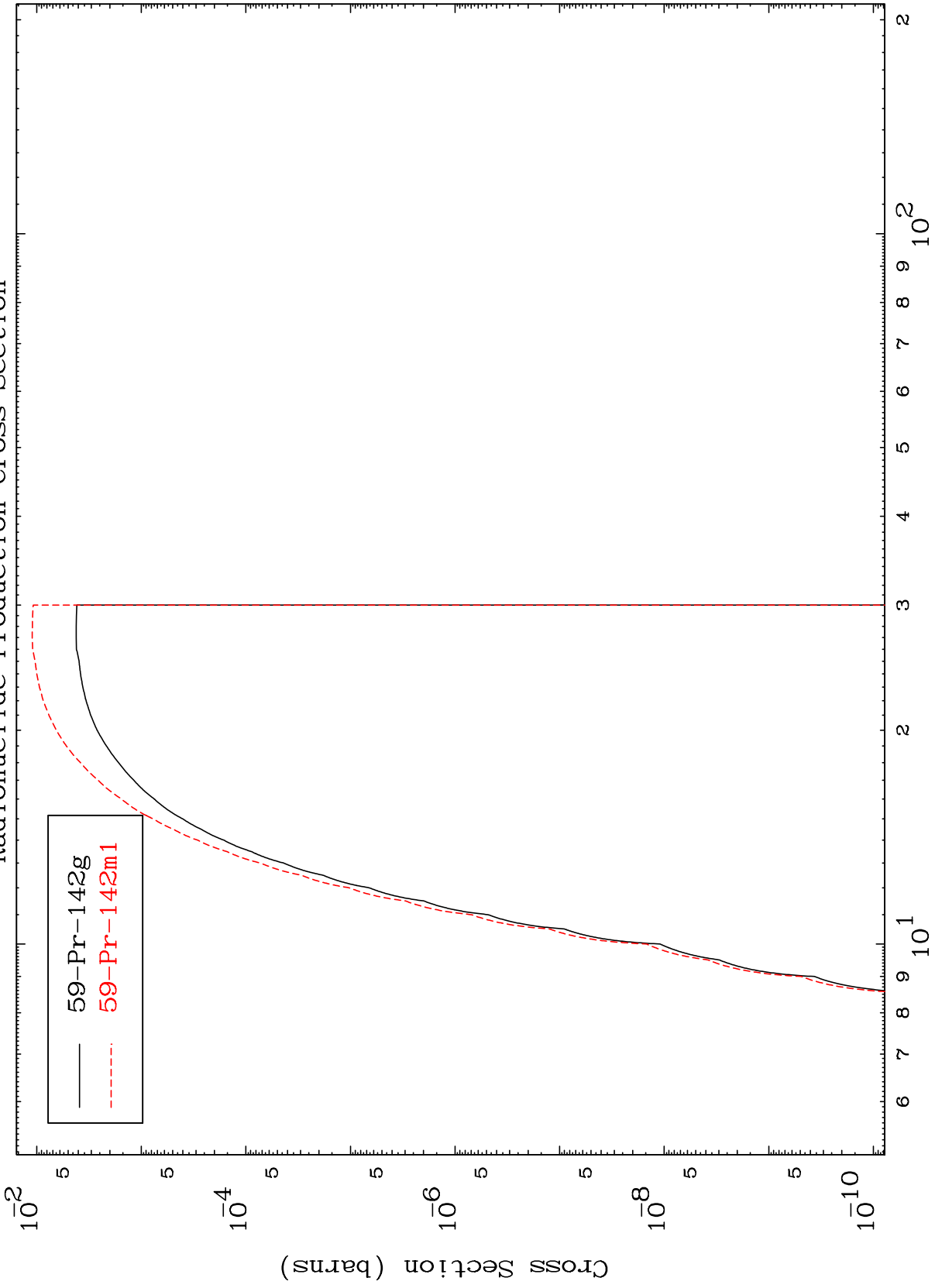
Incident Energy (MeV)

60-Nd-143

MAT 6028

60-Nd-143

(n,d)
Radionuclide Production Cross Section



101

Incident Energy (MeV)

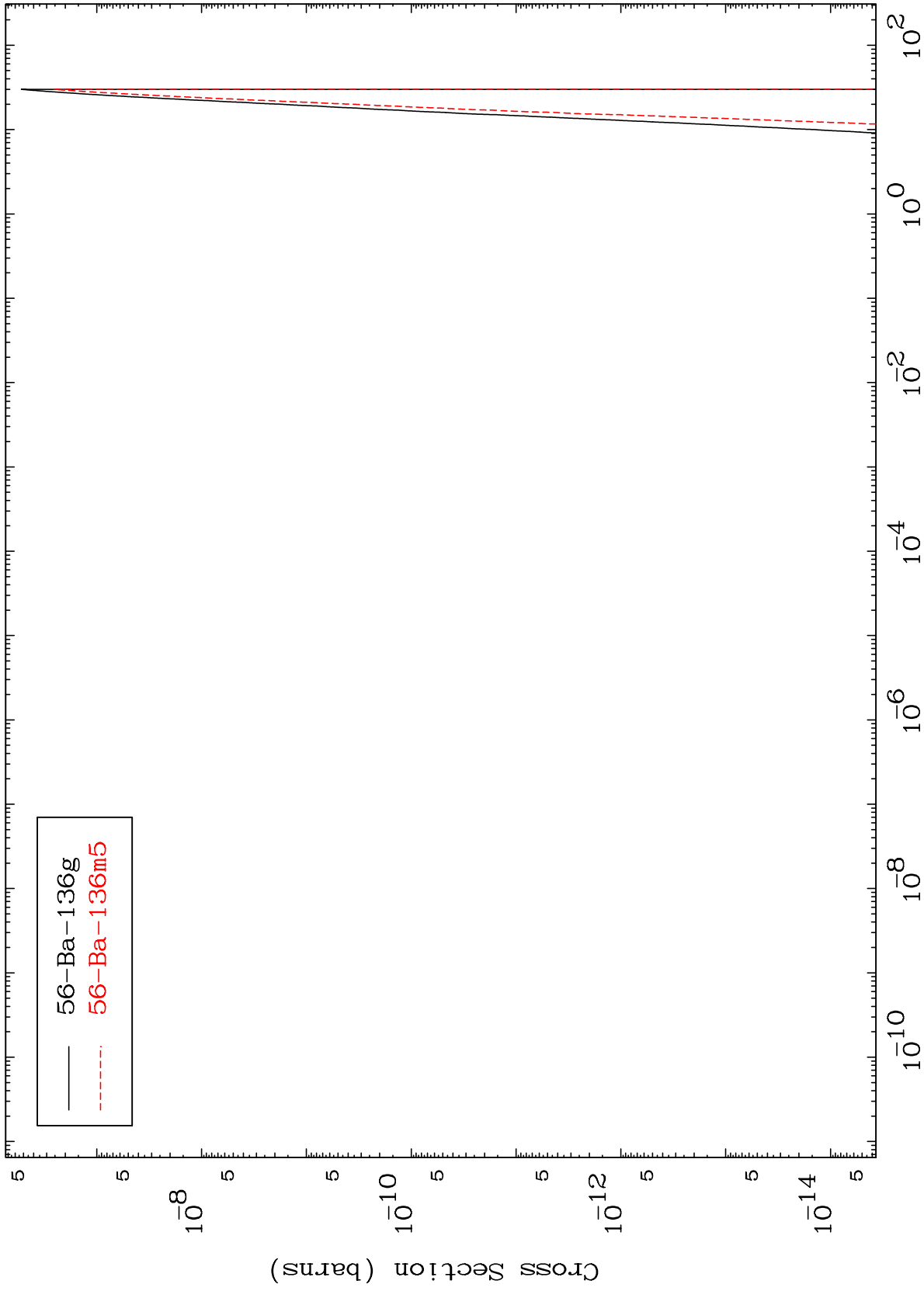
60-Nd-143

MAT 6028

(n,2α)

60-Nd-143

Radionuclide Production Cross Section



102

Incident Energy (MeV)

60-Nd-143