

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

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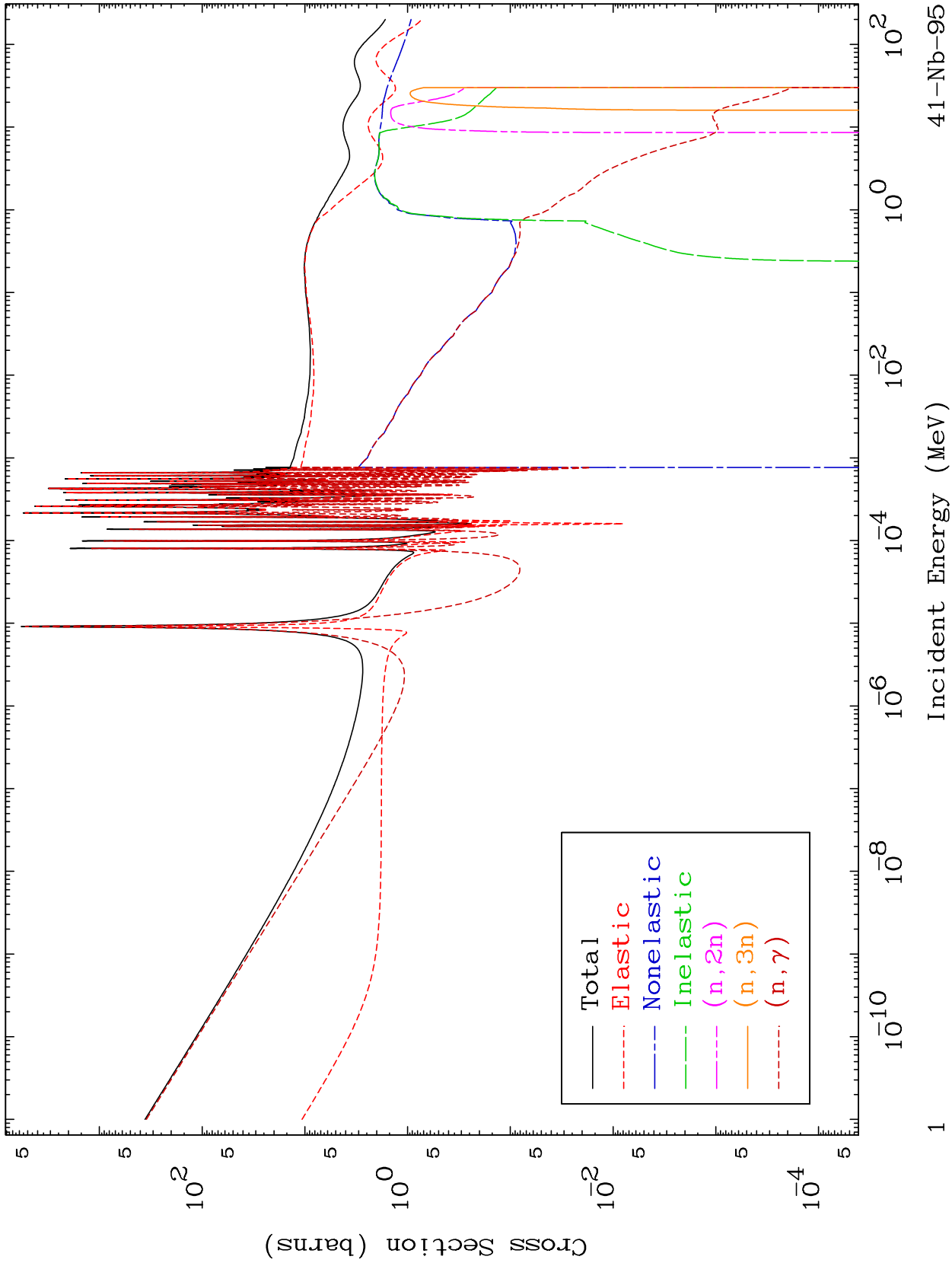
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4131

Neutron Major
293 Kelvin Cross Sections

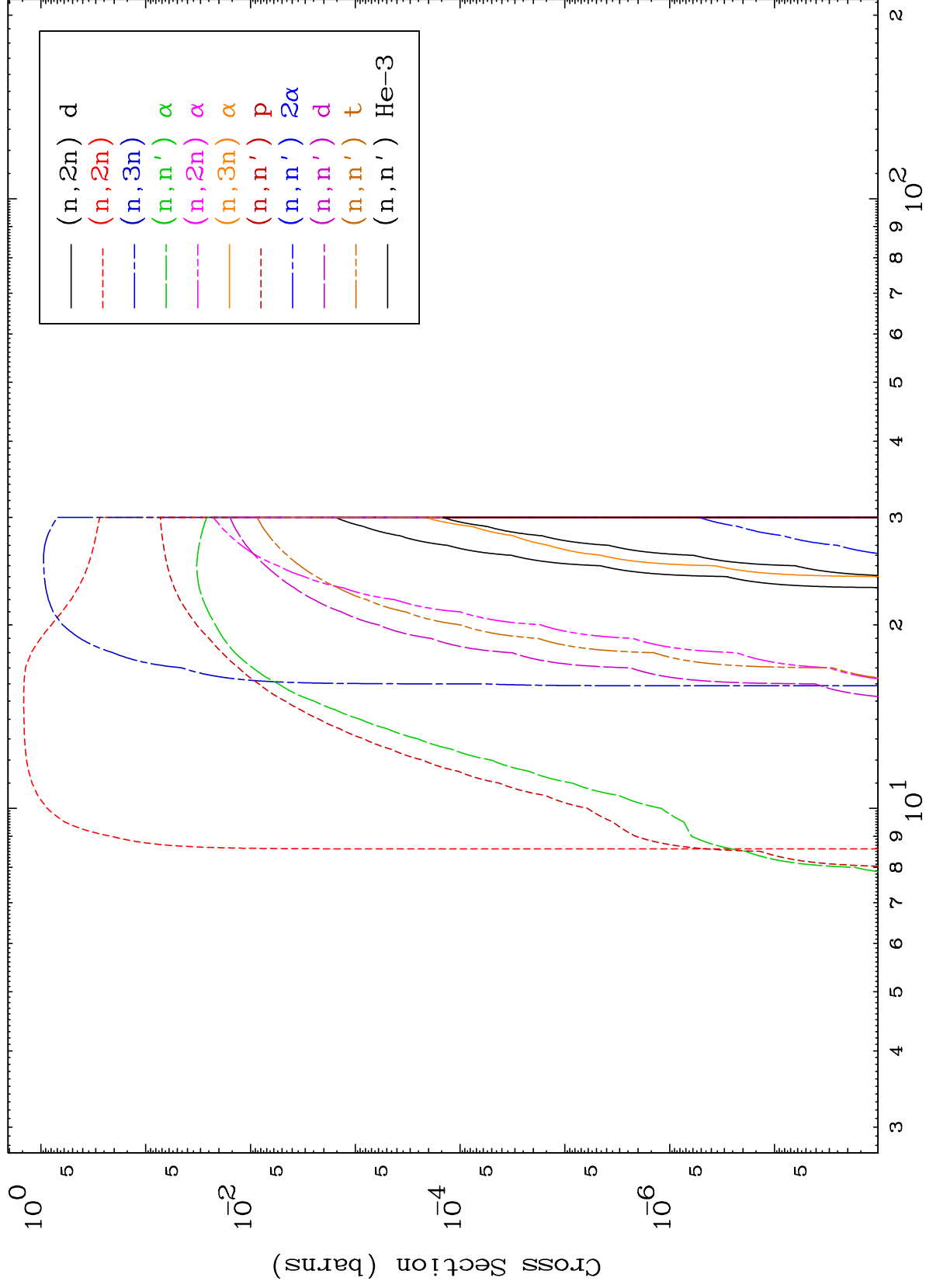
41-Nb-95



MAT 4131

Neutron Absorption 293 Kelvin Cross Sections

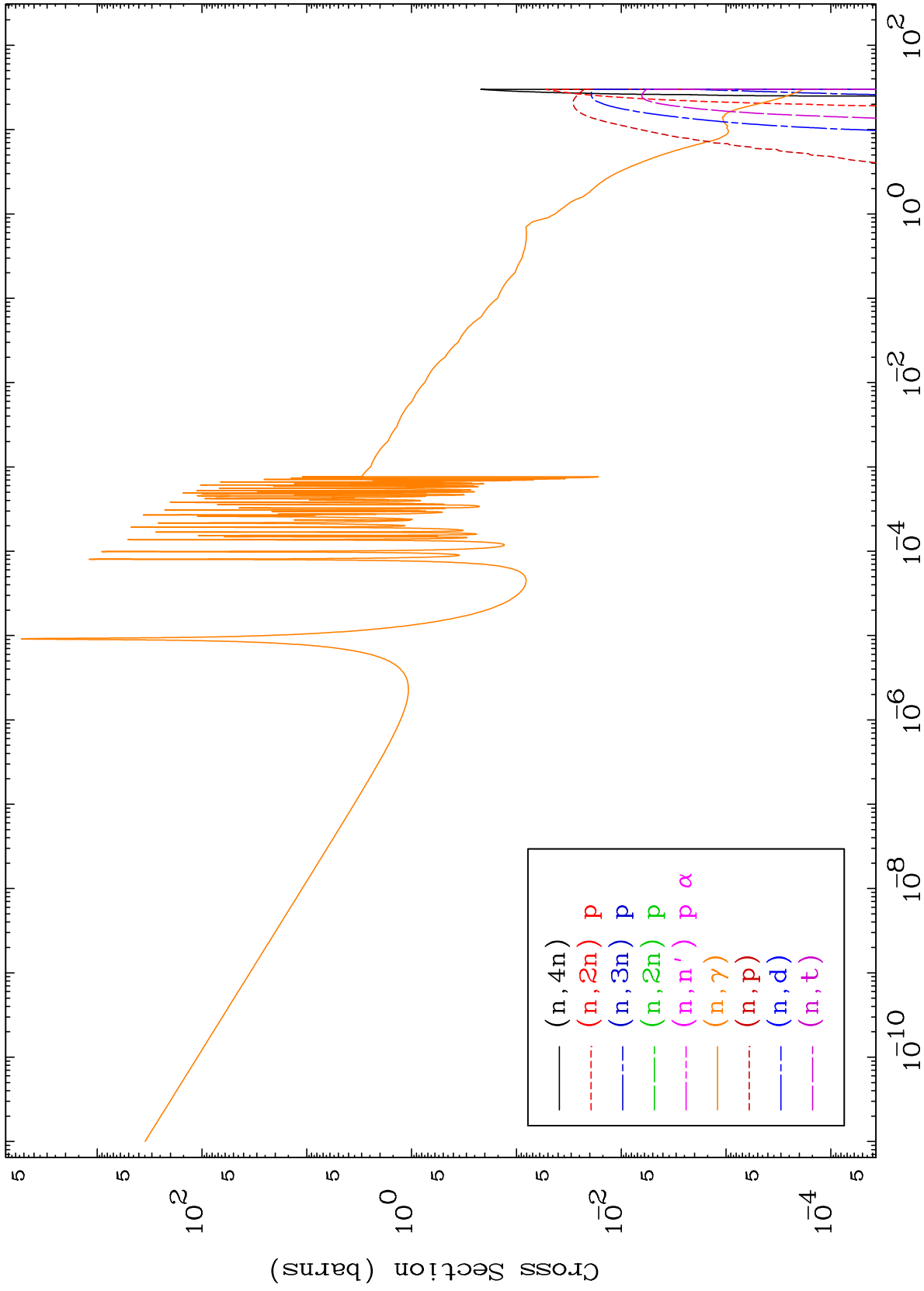
41-Nb-95



2

Incident Energy (MeV)

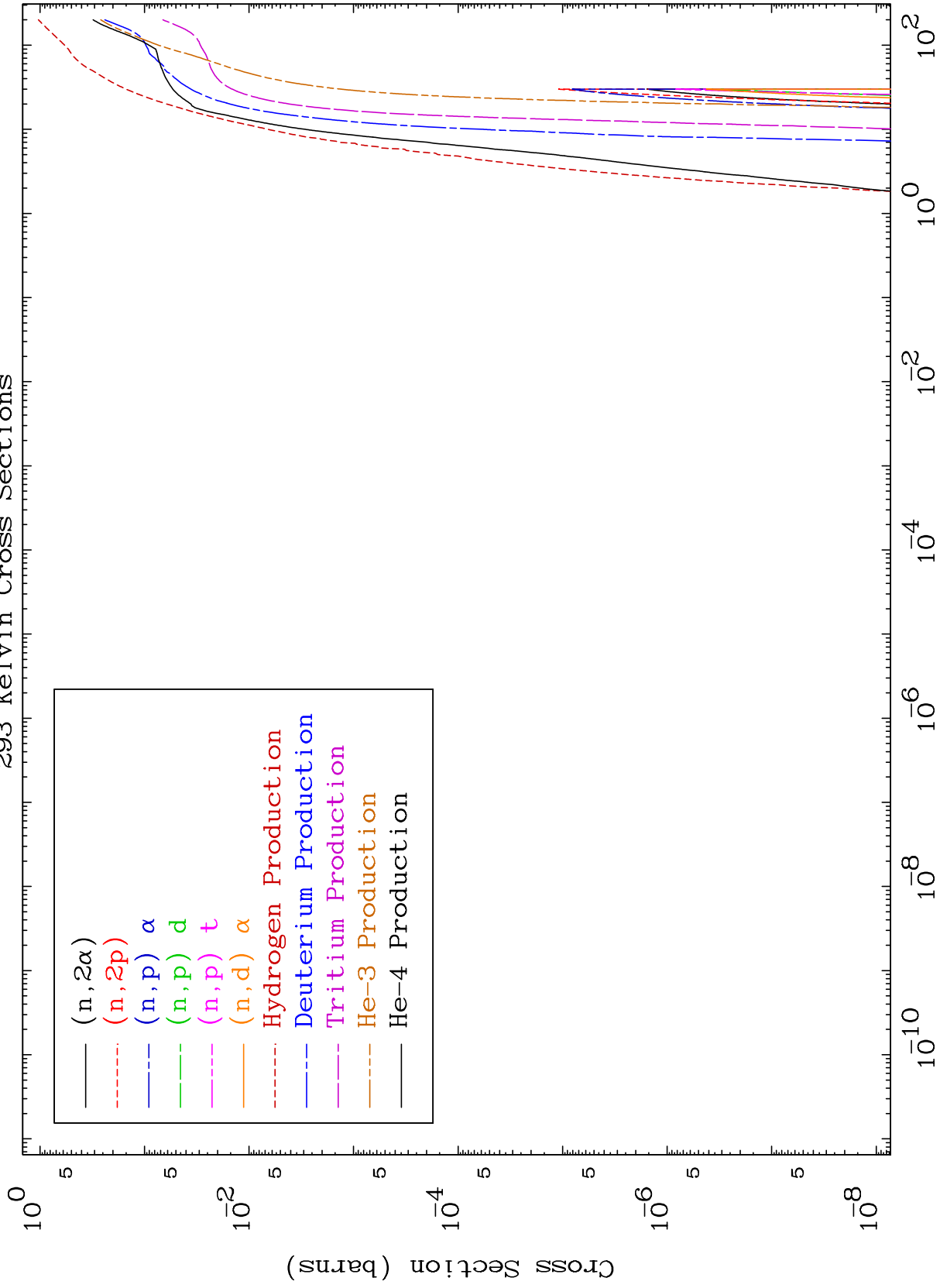
41-Nb-95



MAT 4131

Neutron Absorption
293 Kelvin Cross Sections

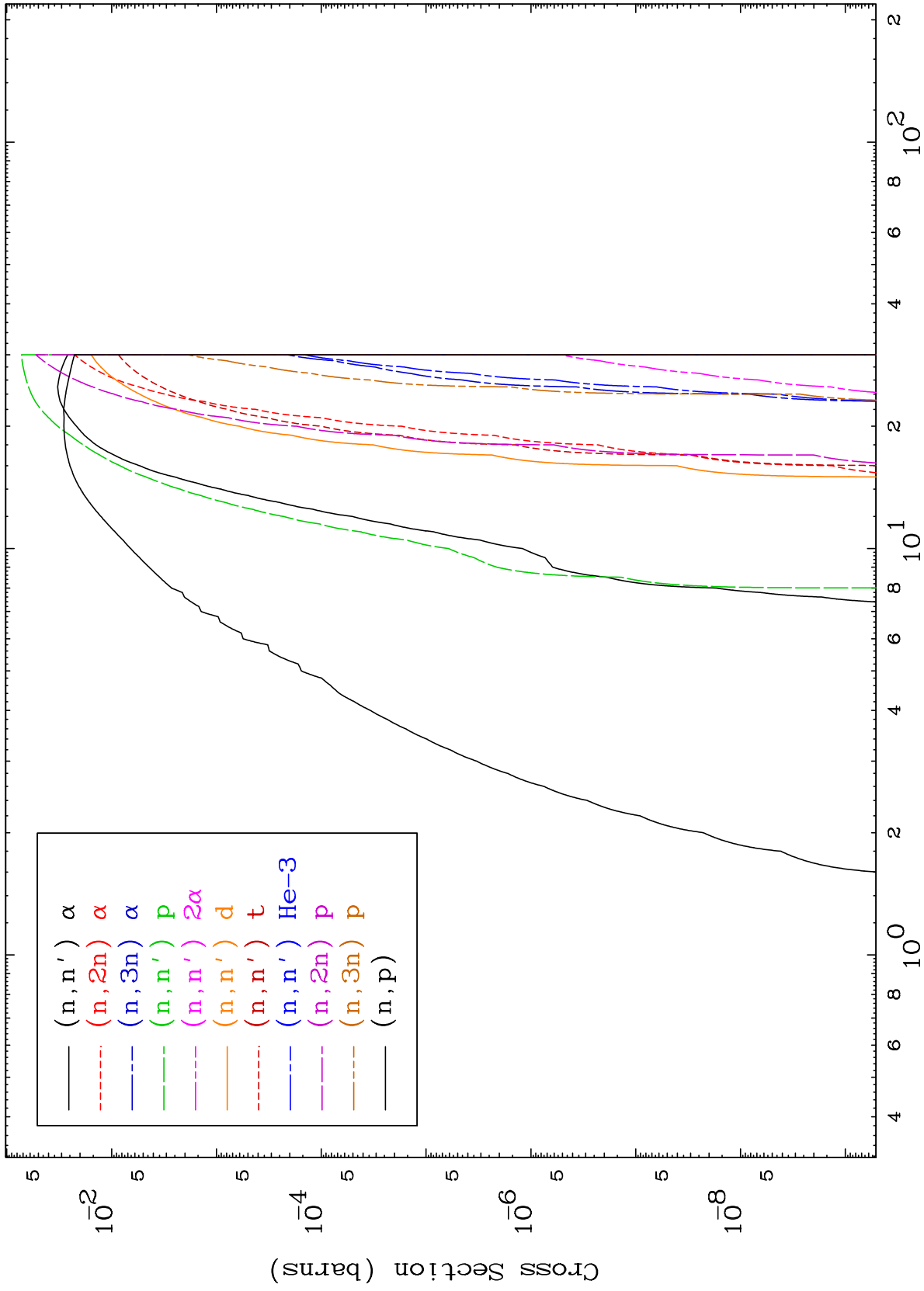
41-Nb-95



MAT 4131

Charged Particle
293 Kelvin Cross Sections

41-Nb-95



5

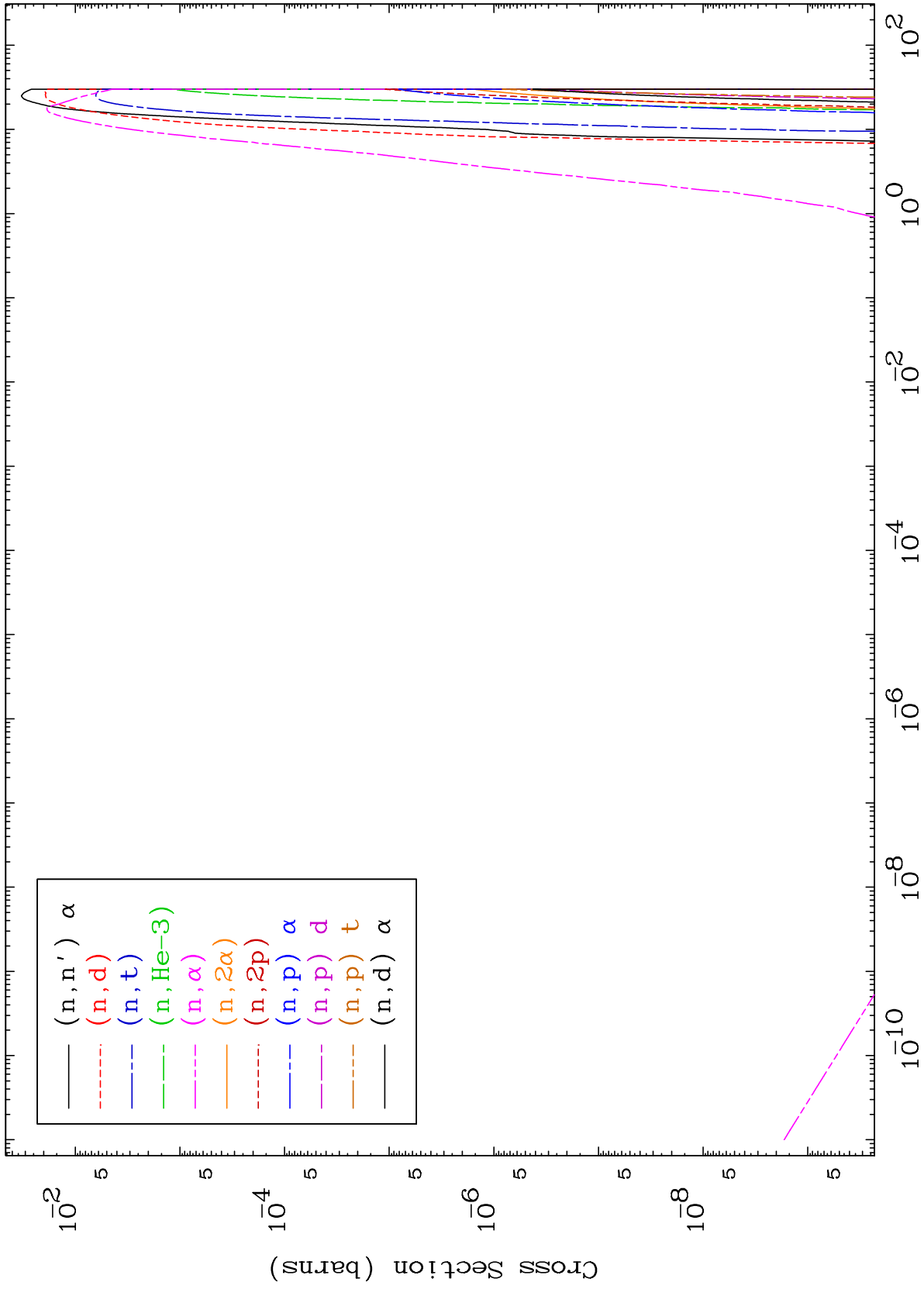
Incident Energy (MeV)

41-Nb-95

MAT 4131

Charged Particle
293 Kelvin Cross Sections

41-Nb-95



6

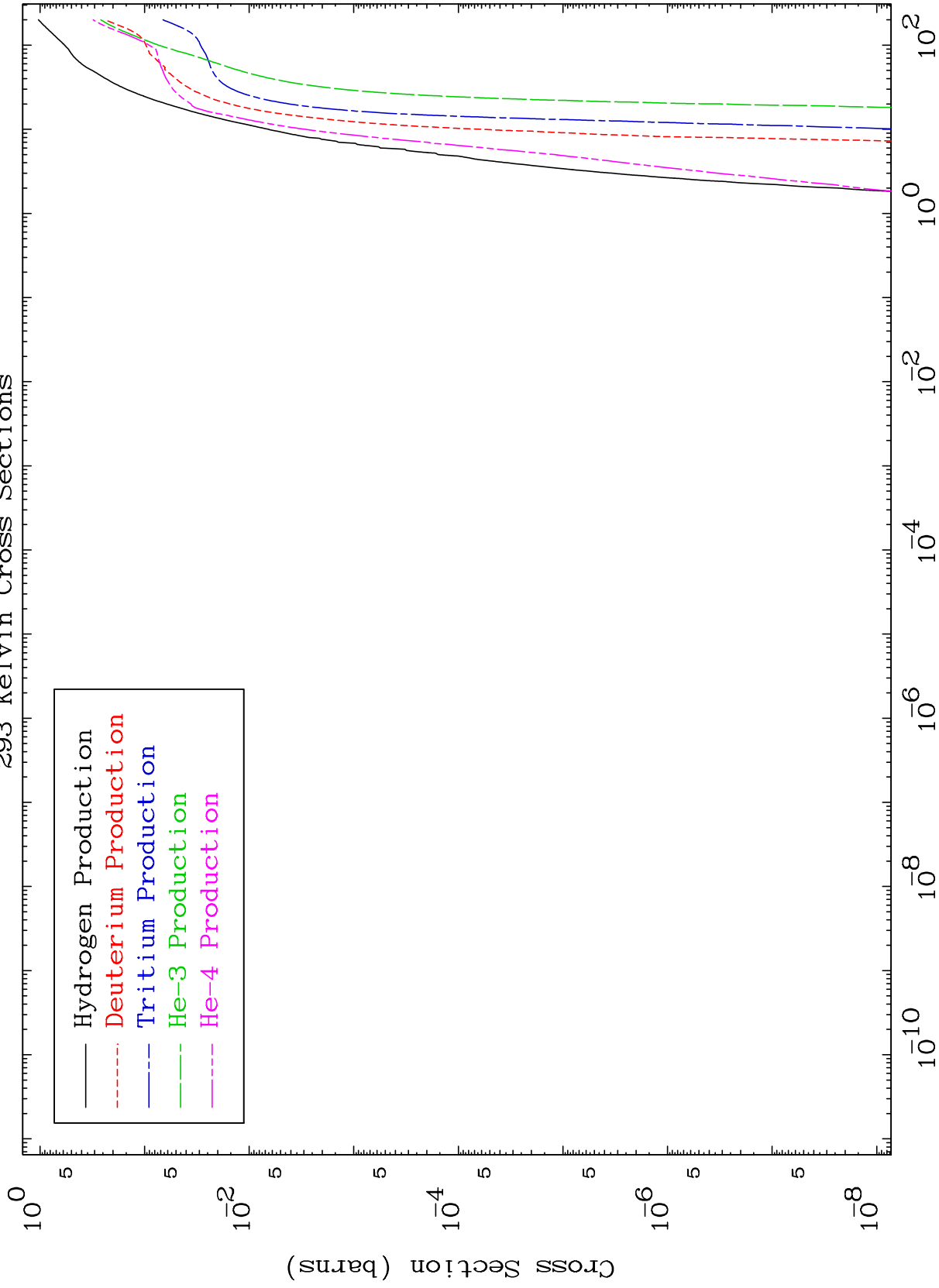
Incident Energy (MeV)

41-Nb-95

MAT 4131

Particle Production
293 Kelvin Cross Sections

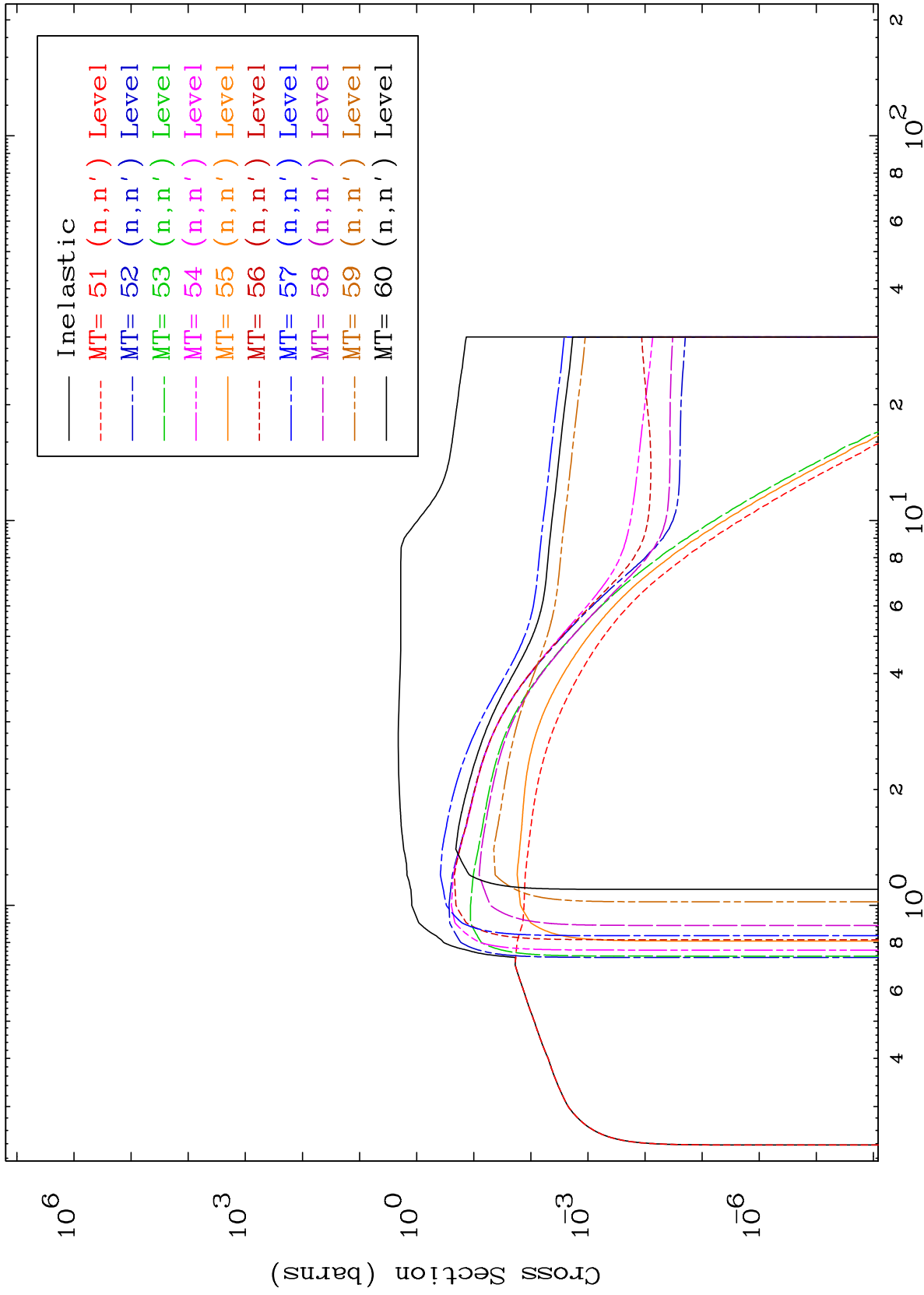
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7

Incident Energy (MeV)

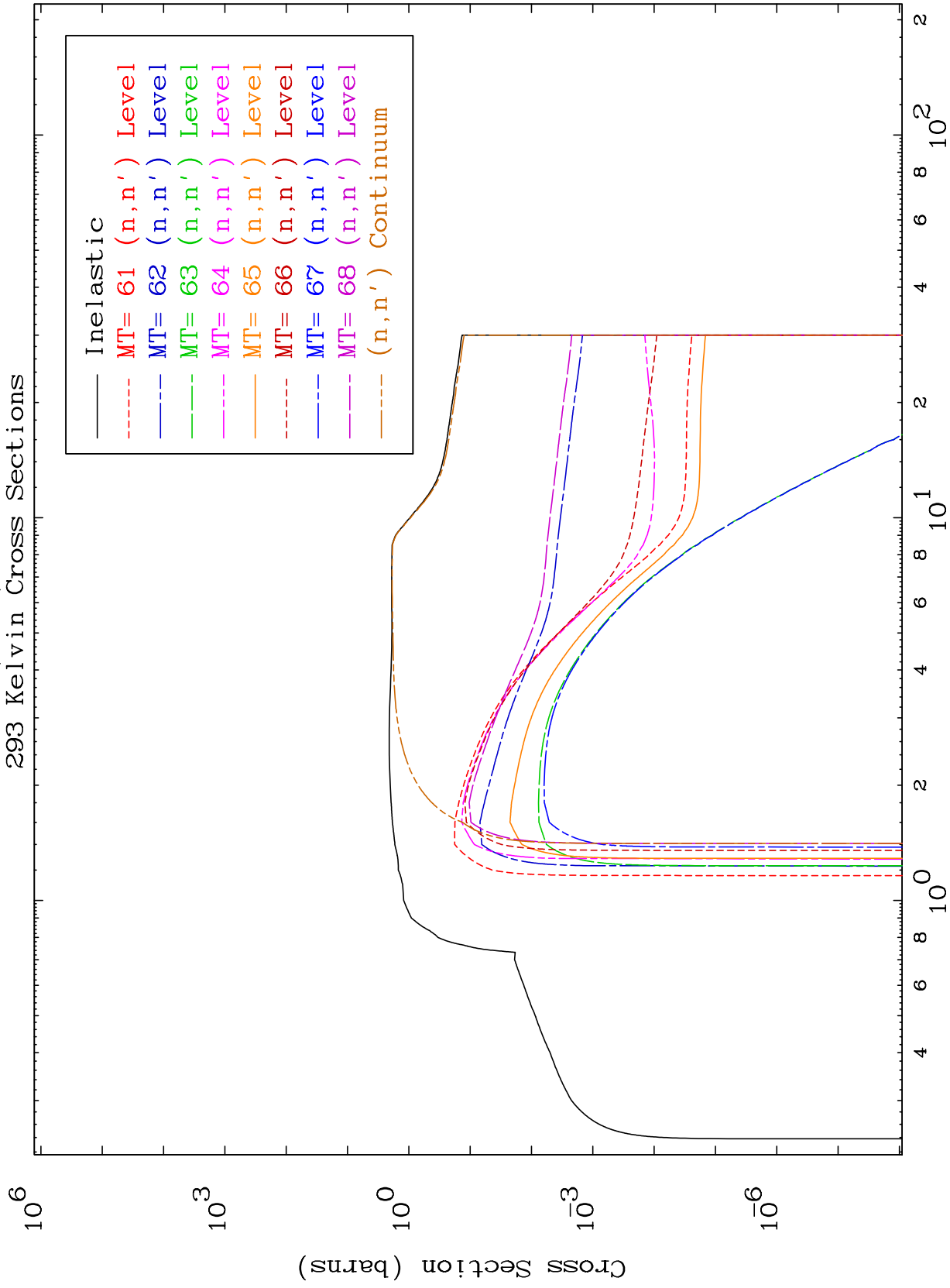
41-Nb-95



MAT 4131

(n,n') Levels
293 Kelvin Cross Sections

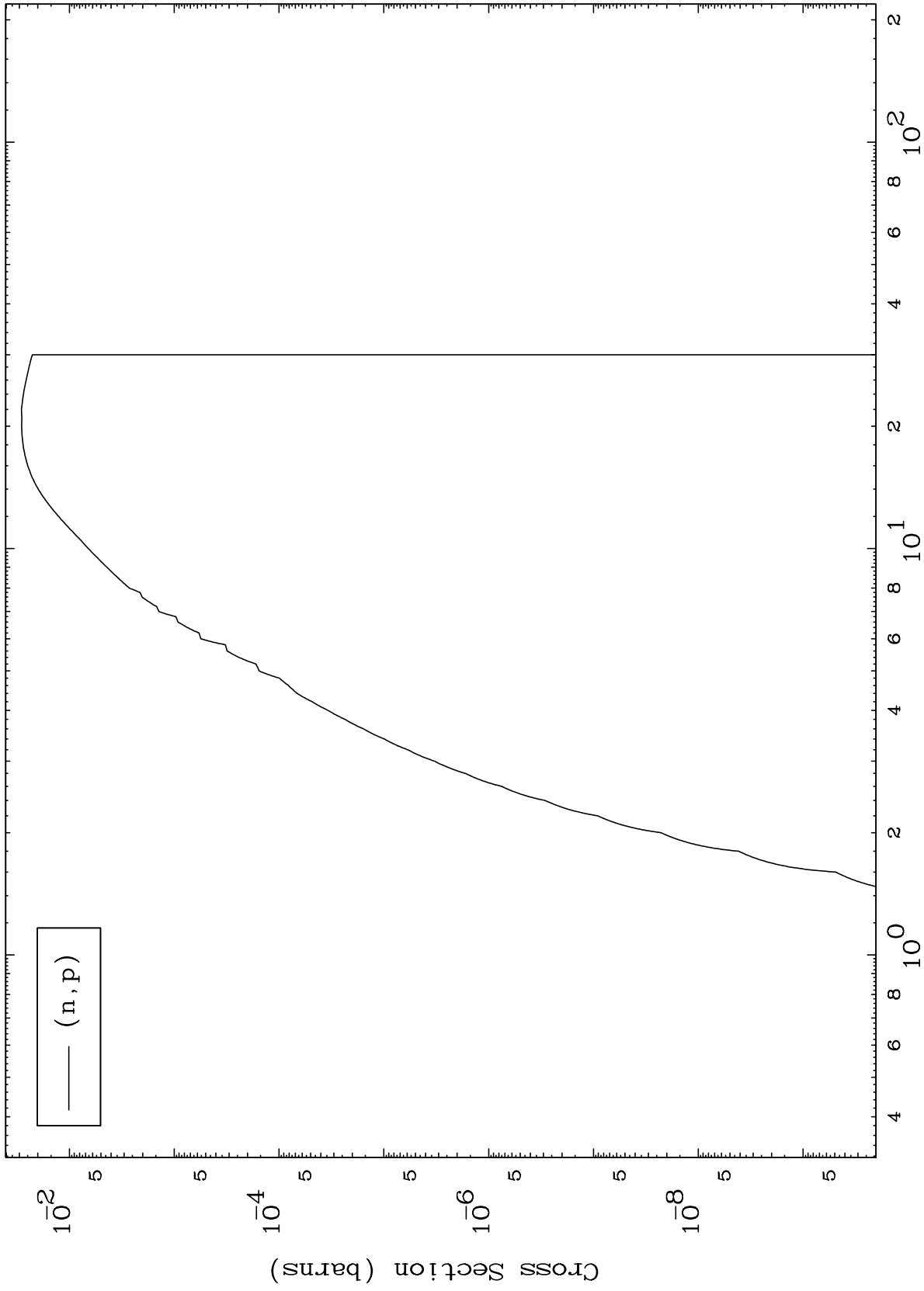
41-Nb-95



MAT 4131

(n,p) Levels
293 Kelvin Cross Sections

41-Nb-95



10

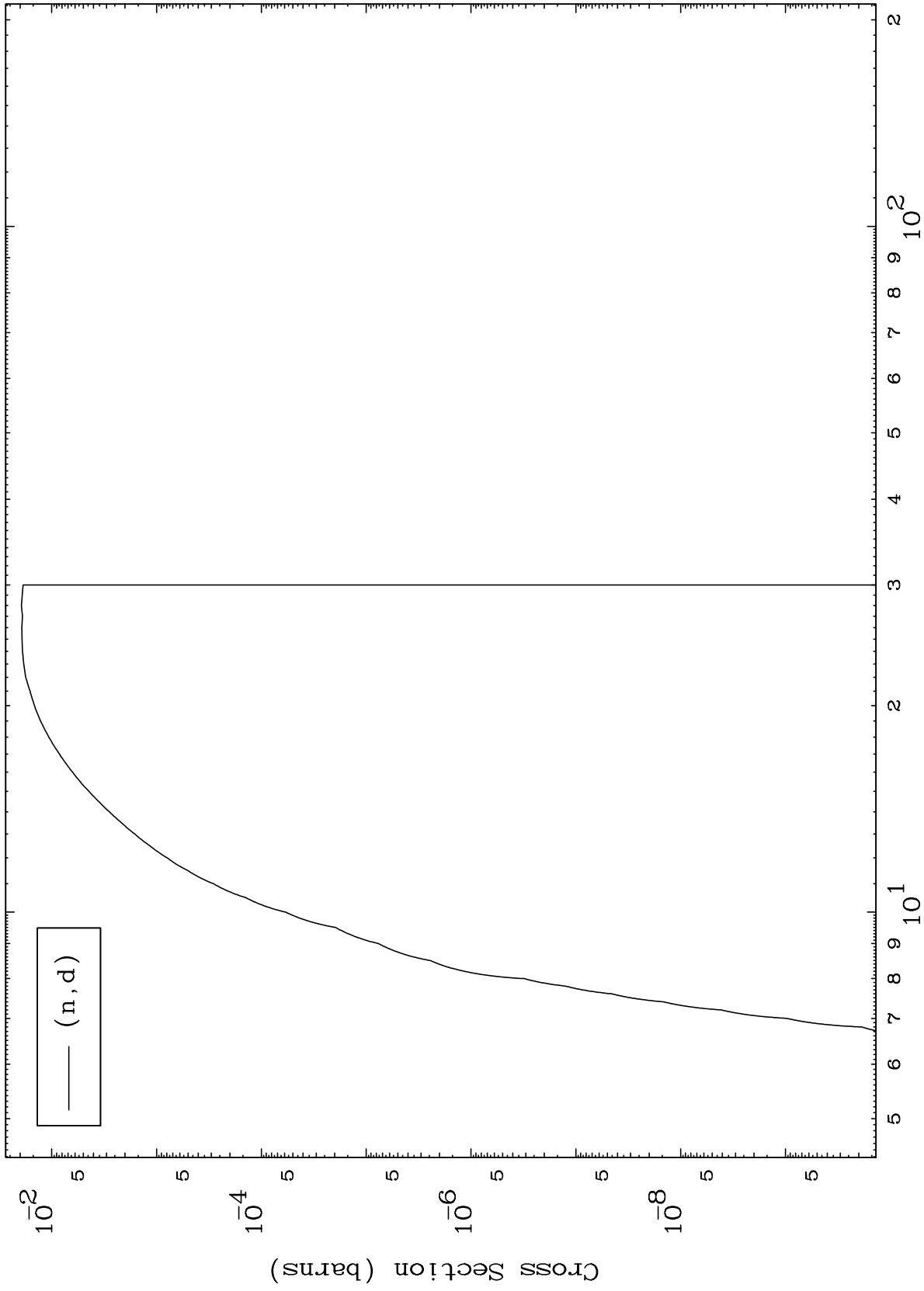
Incident Energy (MeV)

41-Nb-95

MAT 4131

(n,d) Levels
293 Kelvin Cross Sections

41-Nb-95



11

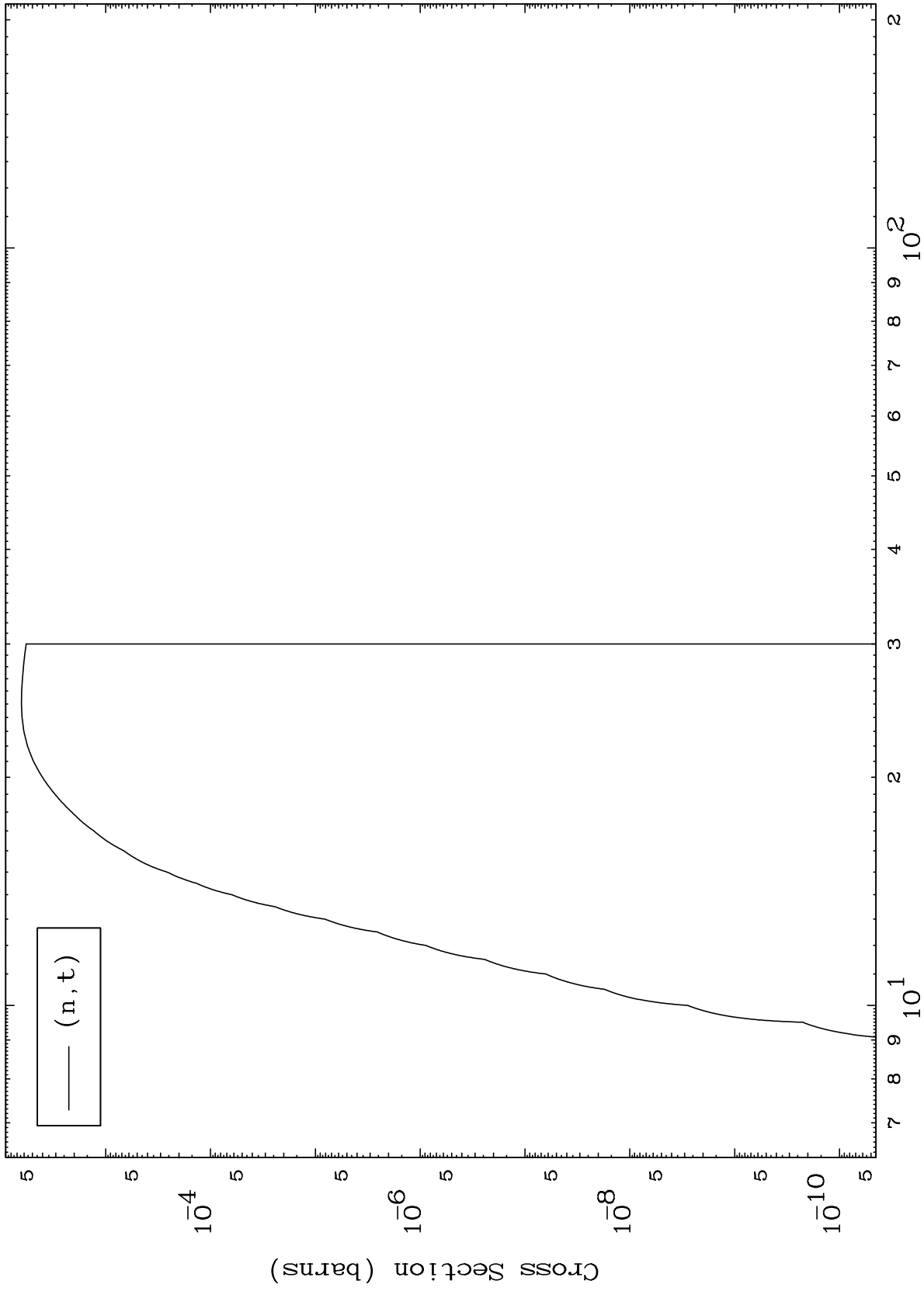
Incident Energy (MeV)

41-Nb-95

MAT 4131

(n,t) Levels
293 Kelvin Cross Sections

41-Nb-95



12

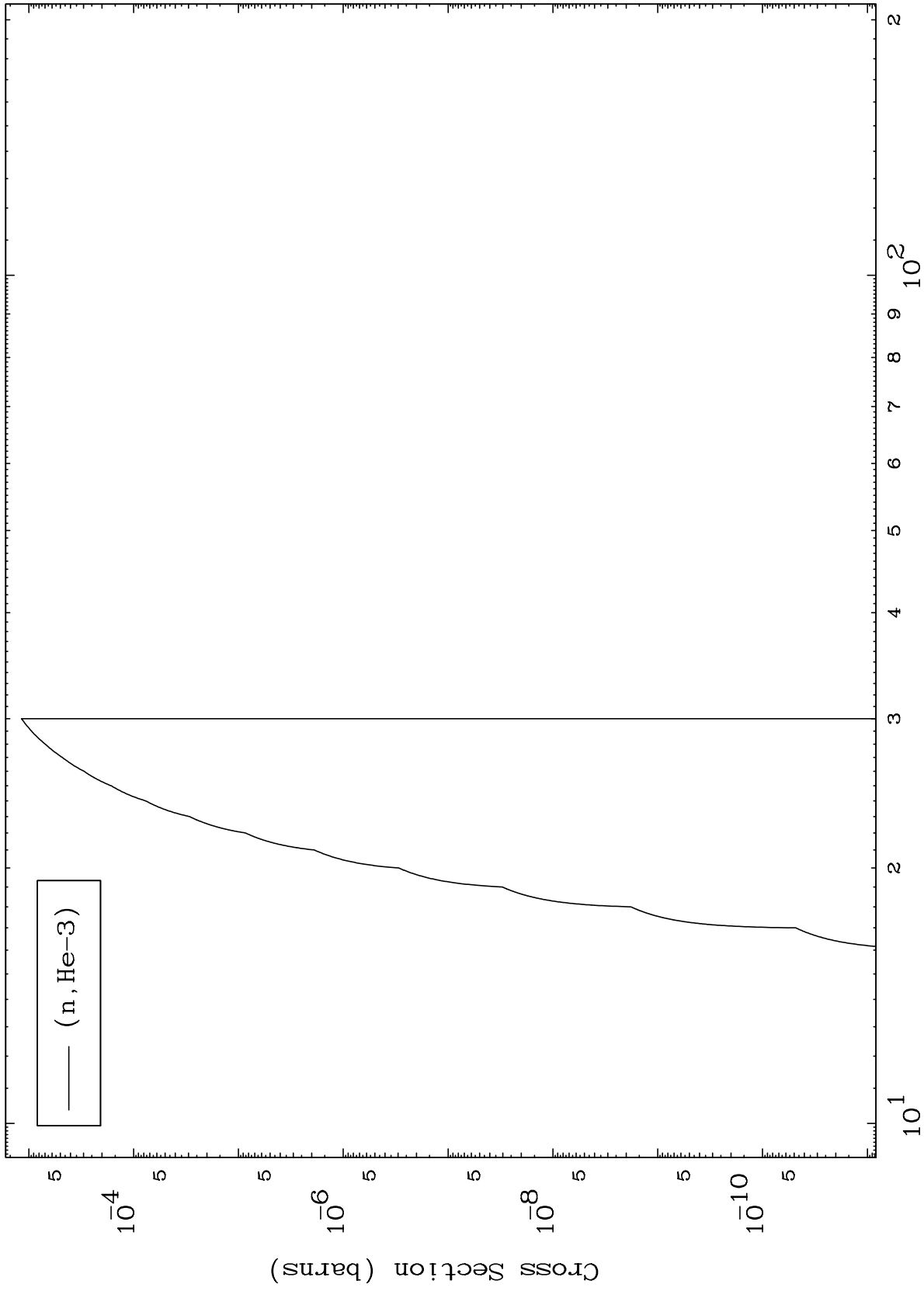
Incident Energy (MeV)

41-Nb-95

MAT 4131

(n,He3) Levels
293 Kelvin Cross Sections

41-Nb-95



13

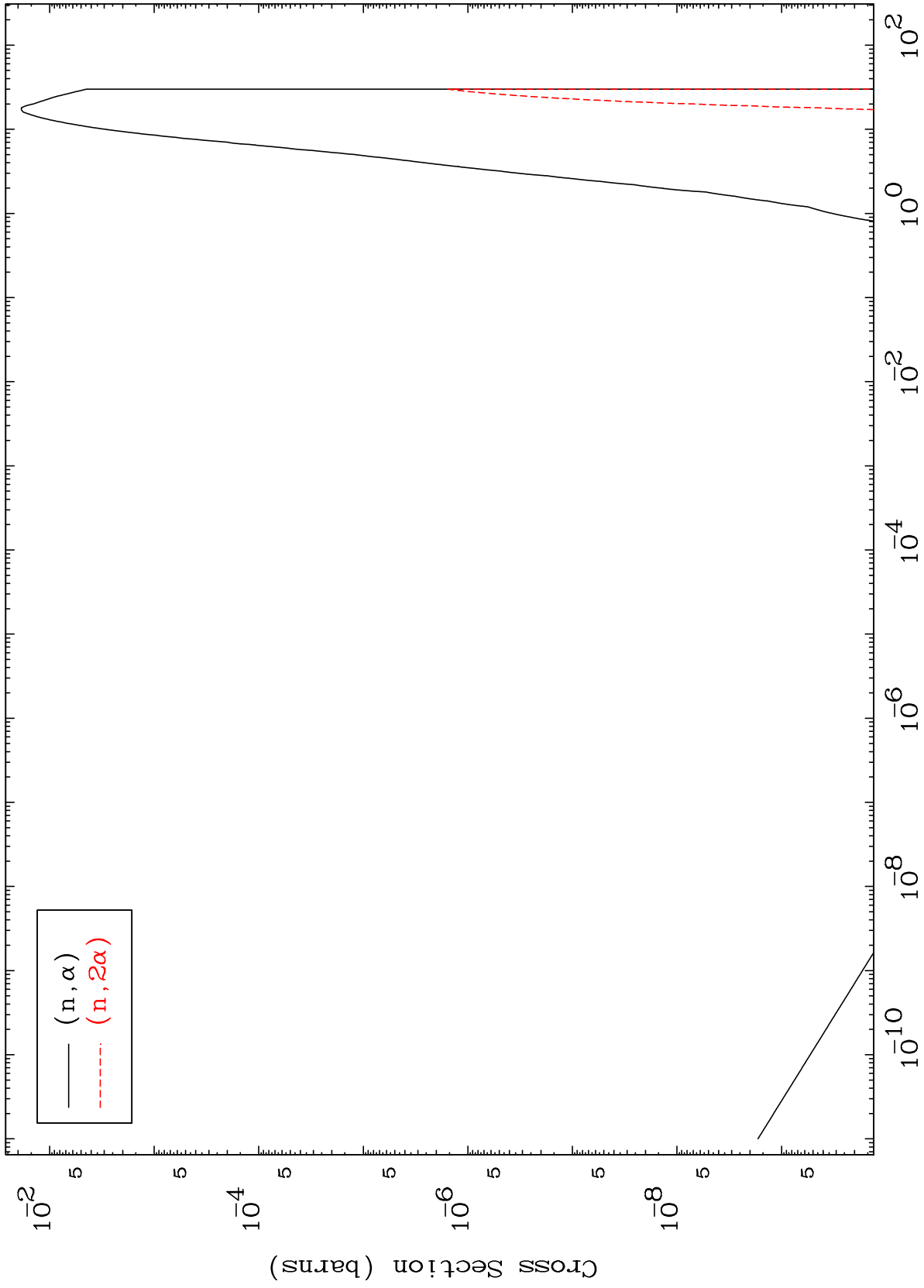
Incident Energy (MeV)

41-Nb-95

MAT 4131

(n,α) Levels
293 Kelvin Cross Sections

41-Nb-95



14

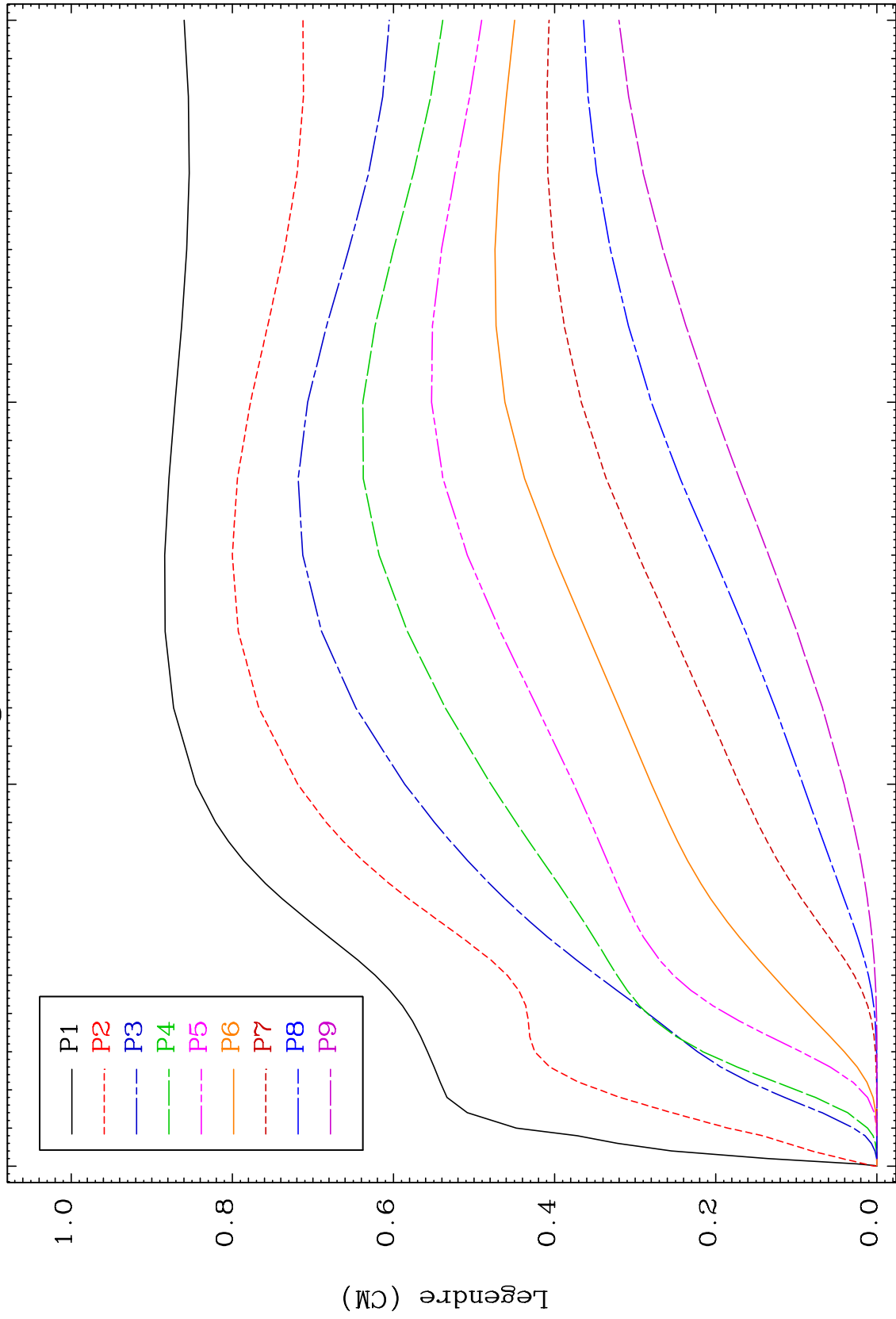
Incident Energy (MeV)

41-Nb-95

MAT 4131

Elastic Legendre Coefficients

41-Nb-95



15

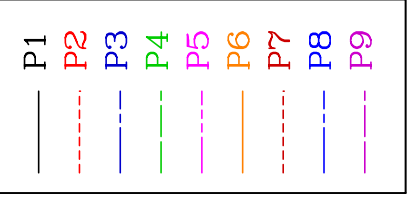
Incident Energy (MeV)

41-Nb-95

30

20

10



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0.8

0.6

0.4

0.2

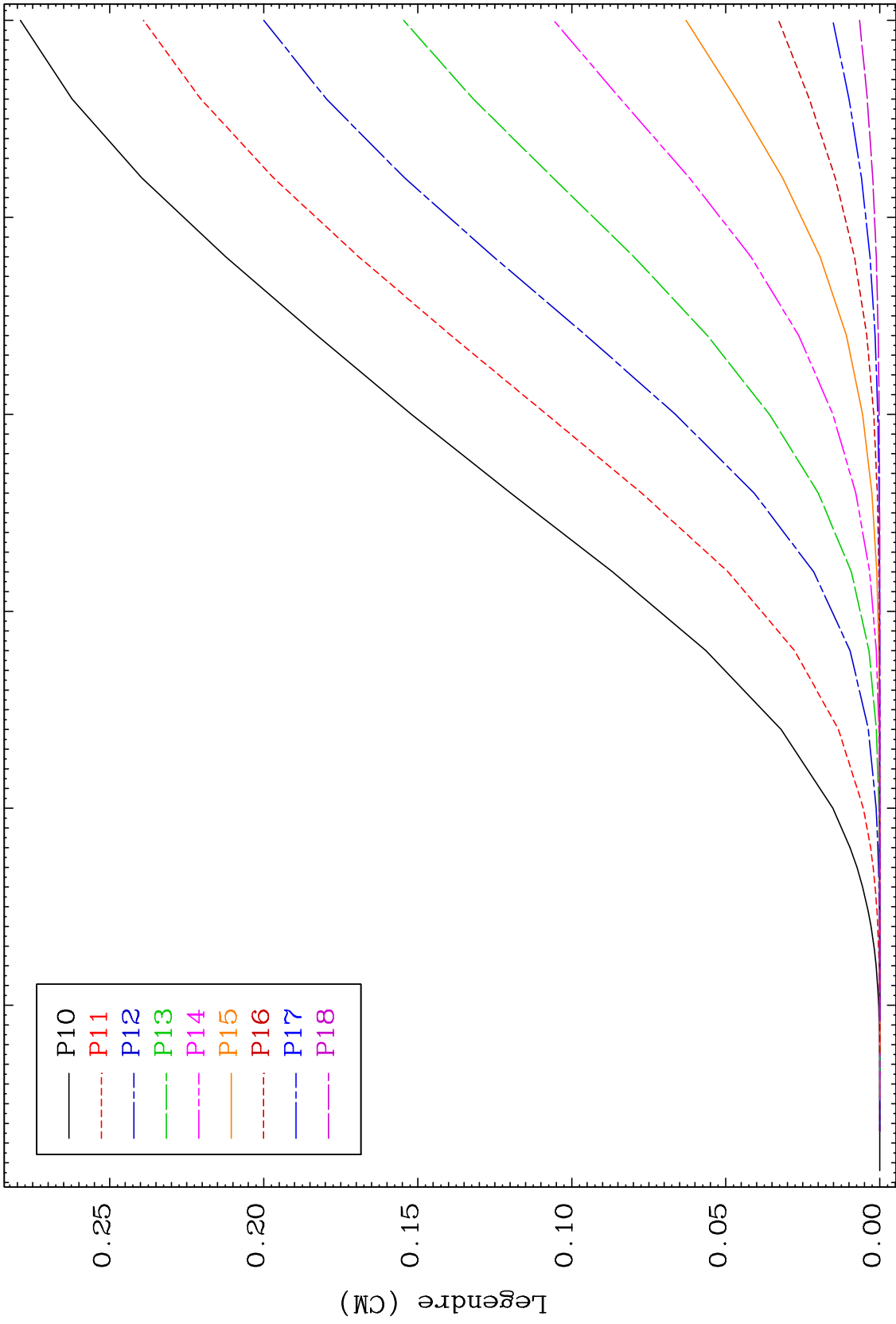
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Legendre (CM)

MAT 4131

Elastic Legendre Coefficients

41-Nb-95



16

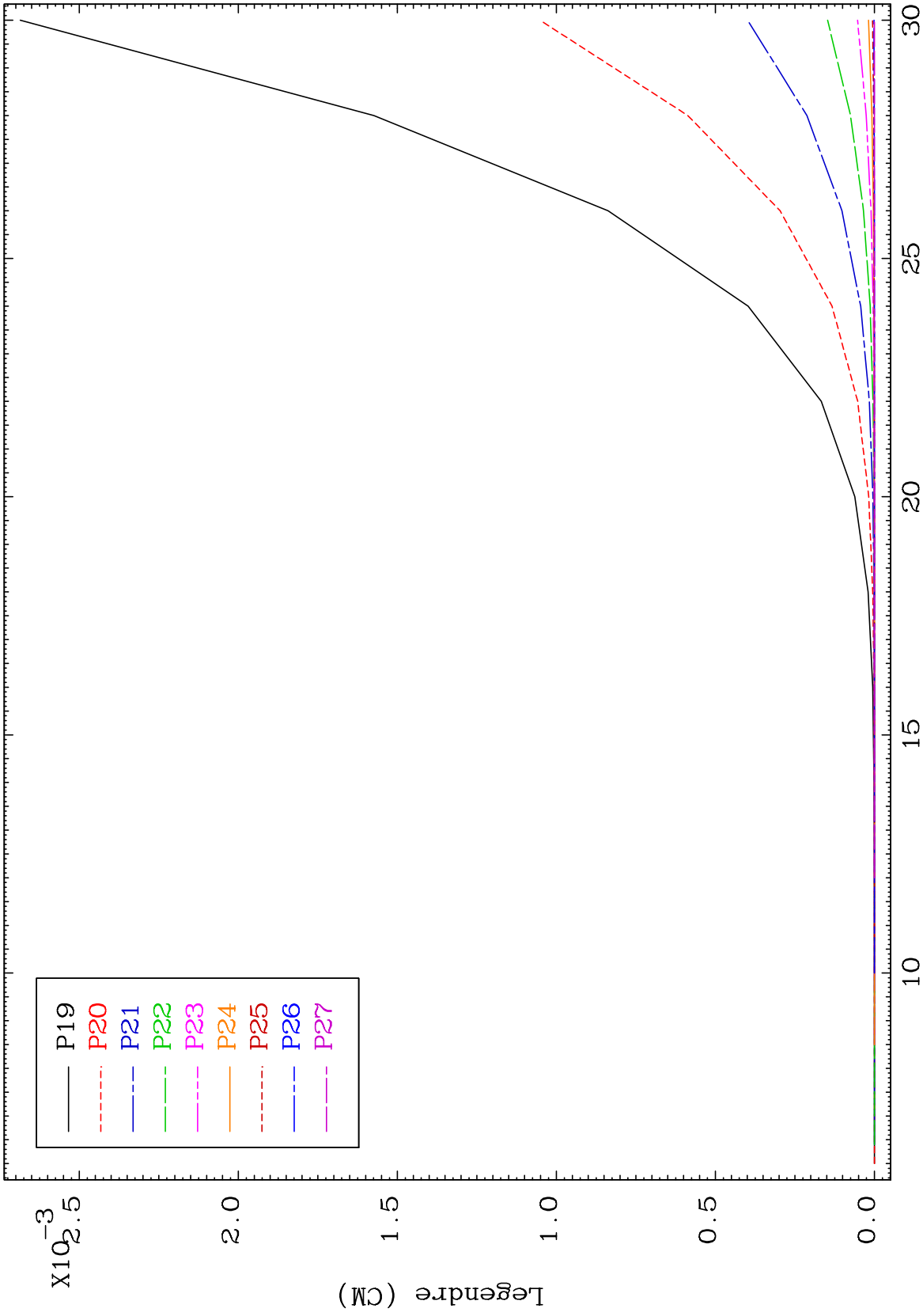
Incident Energy (MeV)

41-Nb-95

MAT 4131

Elastic Legendre Coefficients

41-Nb-95



17

Incident Energy (MeV)

41-Nb-95

MAT 4131

41-Nb-95

Elastic
Legendre Coefficients



18

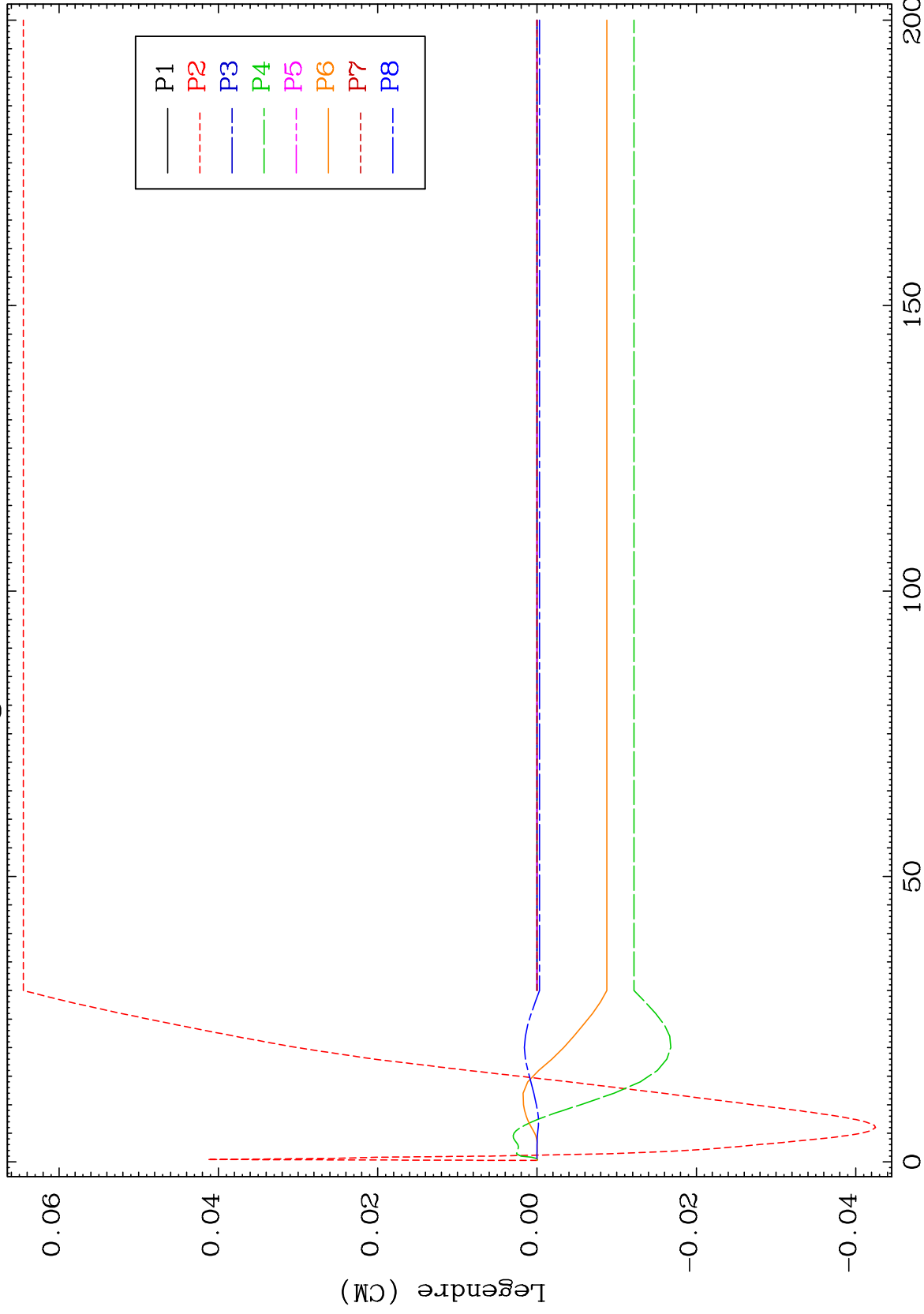
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95

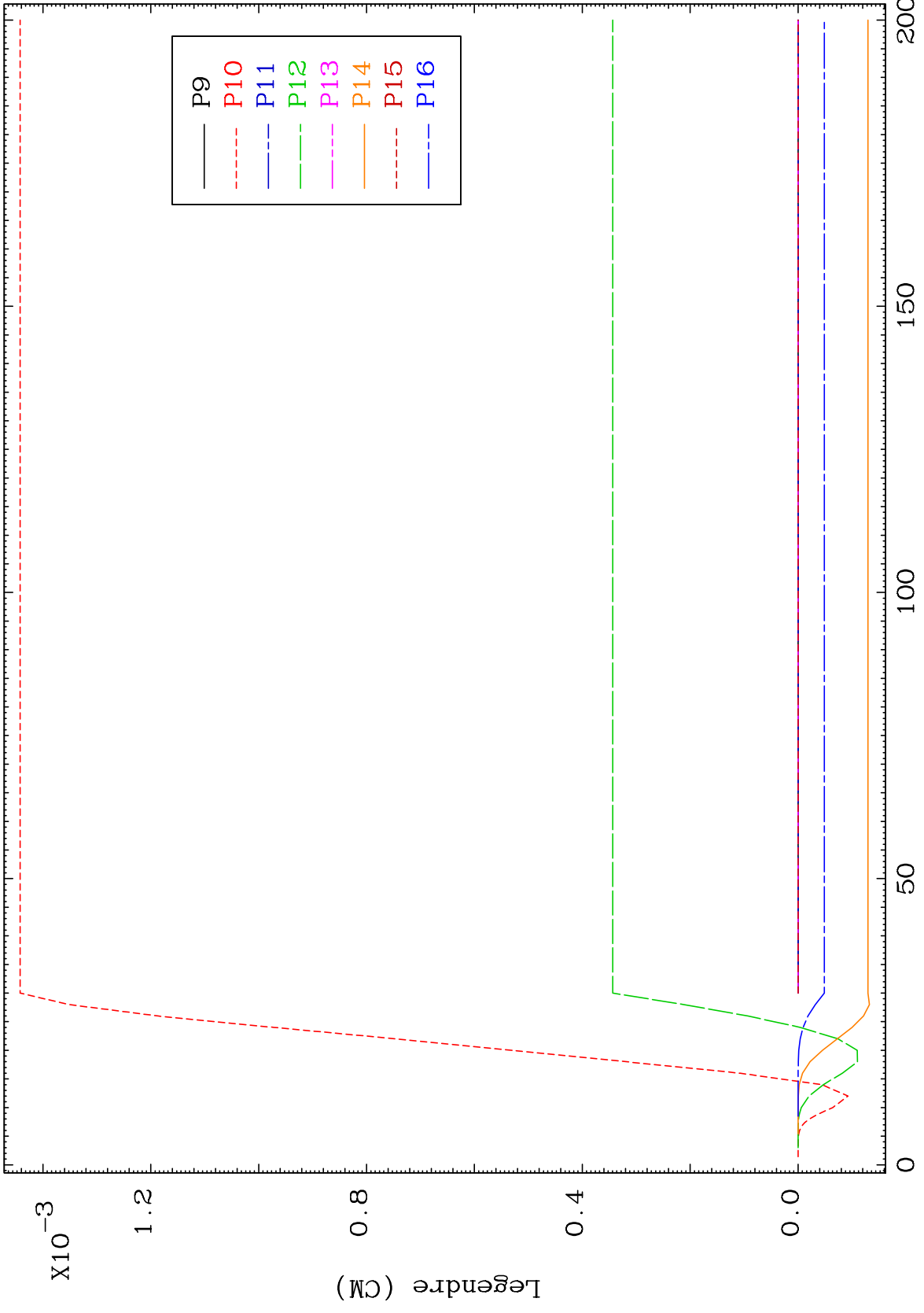


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Incident Energy (MeV)

41-Nb-95

MAT 4131 MT= 51 (n,n') Level Legendre Coefficients 41-Nb-95

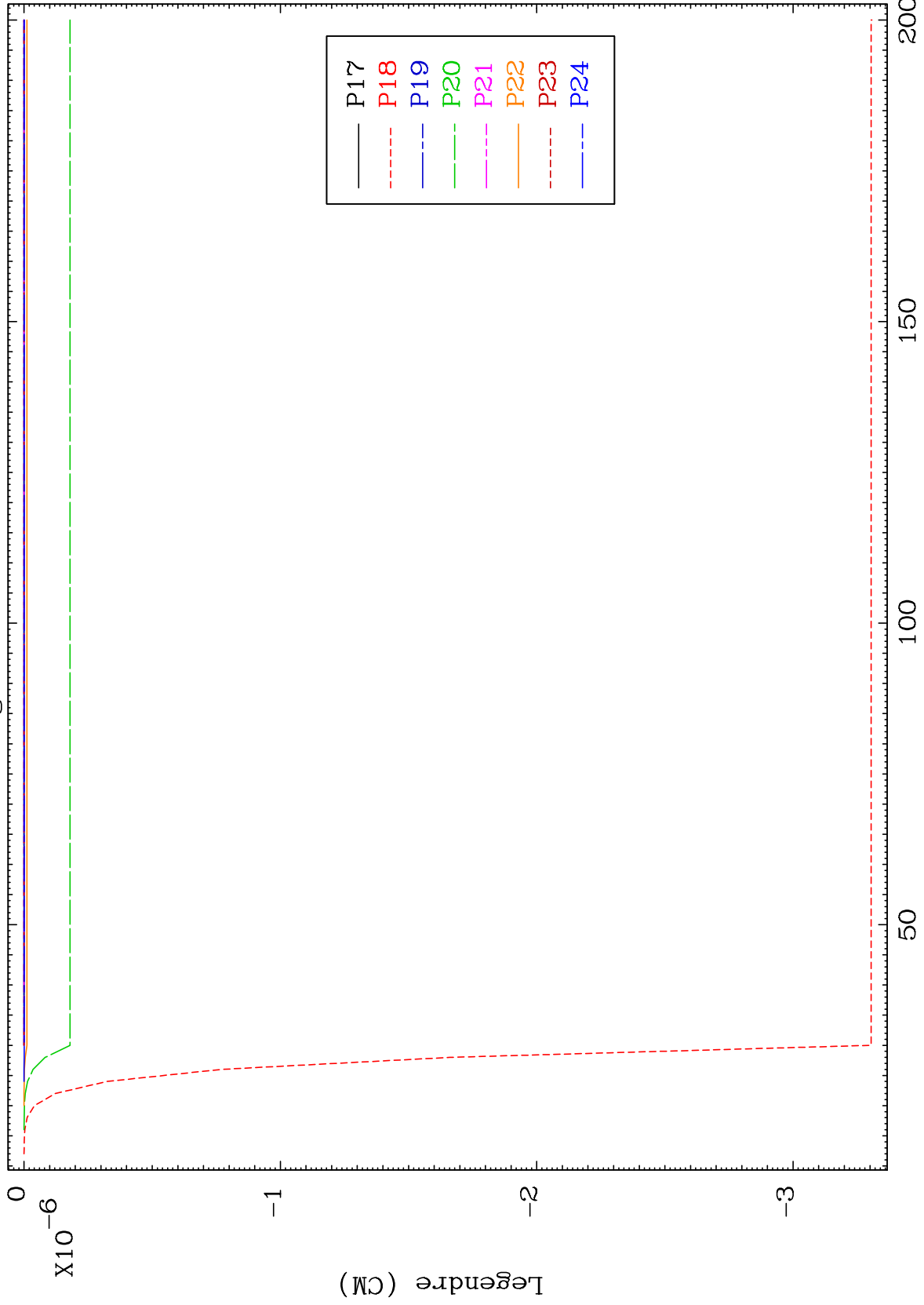


41-Nb-95

MAT 4131

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

41-Nb-95



41-Nb-95

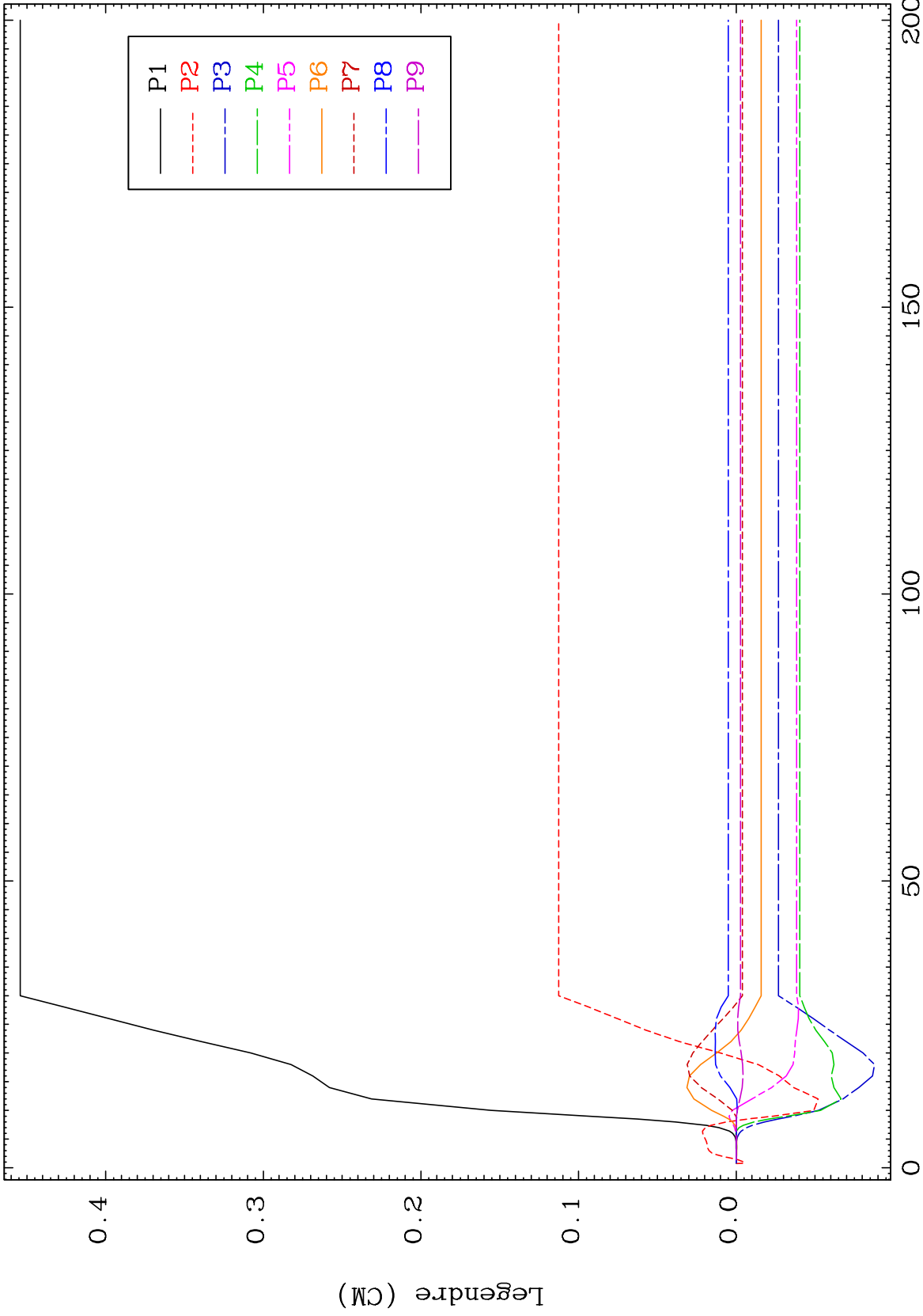
Incident Energy (MeV)

21

MAT 4131

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

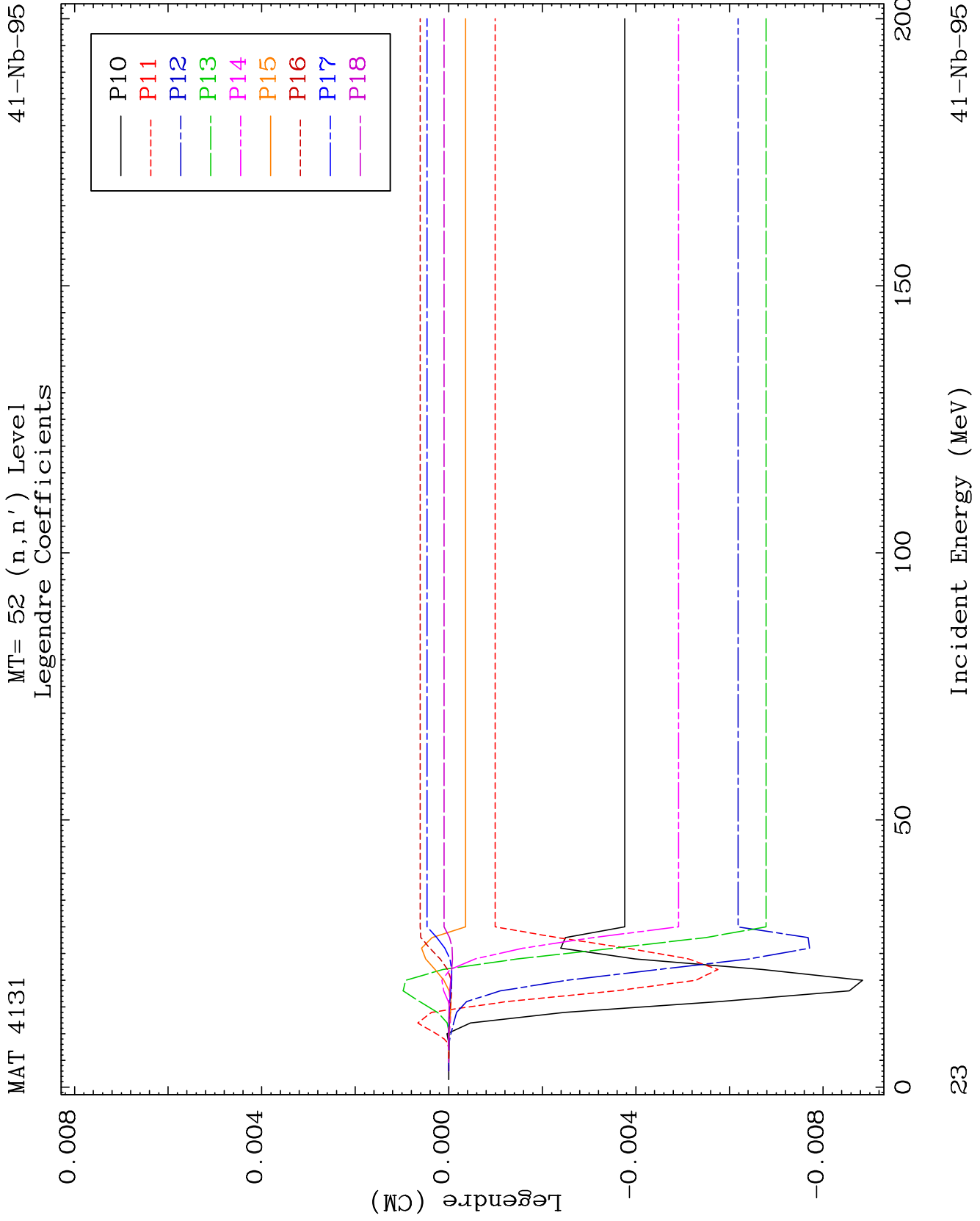
41-Nb-95



22

Incident Energy (MeV)

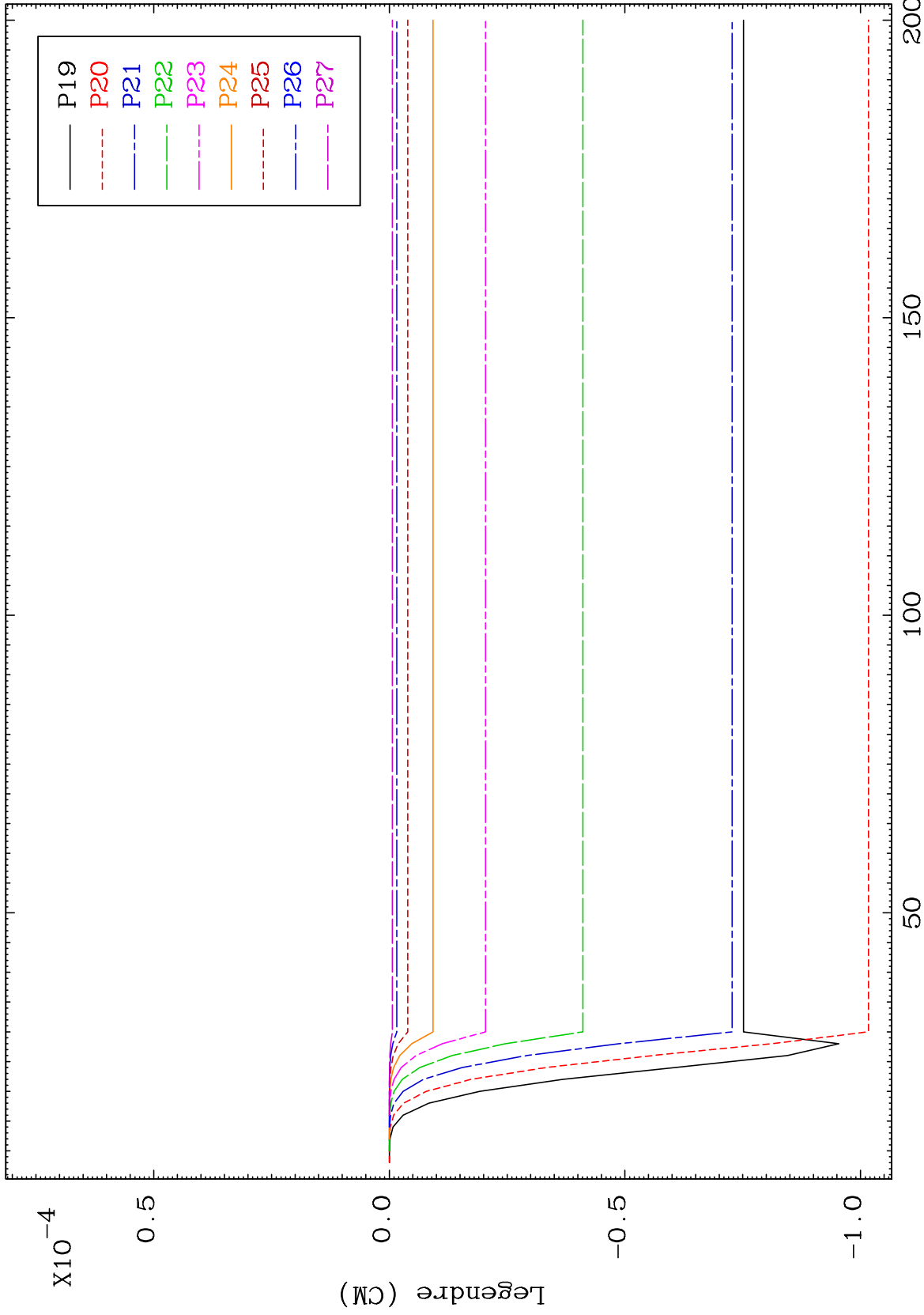
41-Nb-95



MAT 4131

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

41-Nb-95



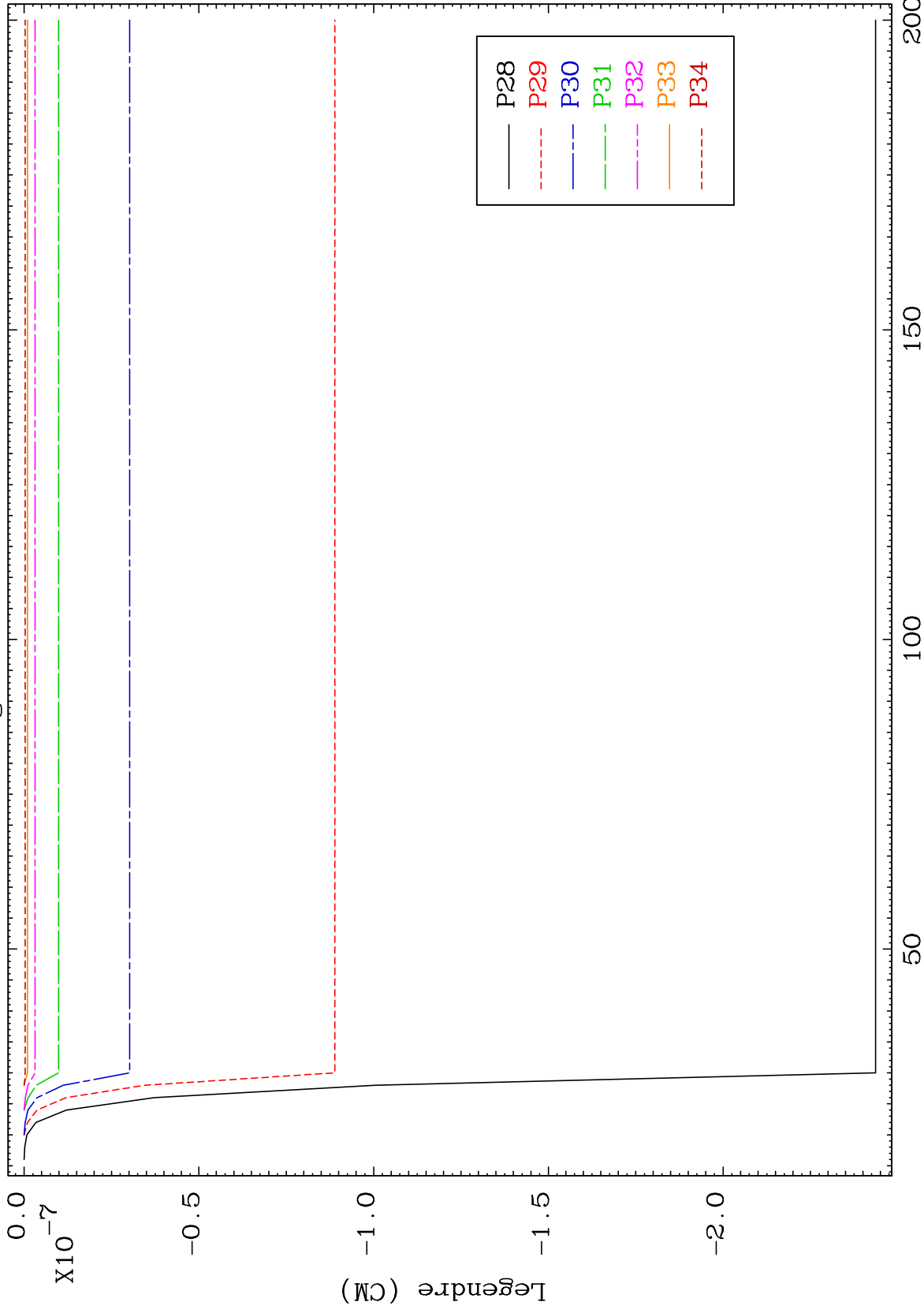
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41-Nb-95

MAT 4131

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

41-Nb-95



25

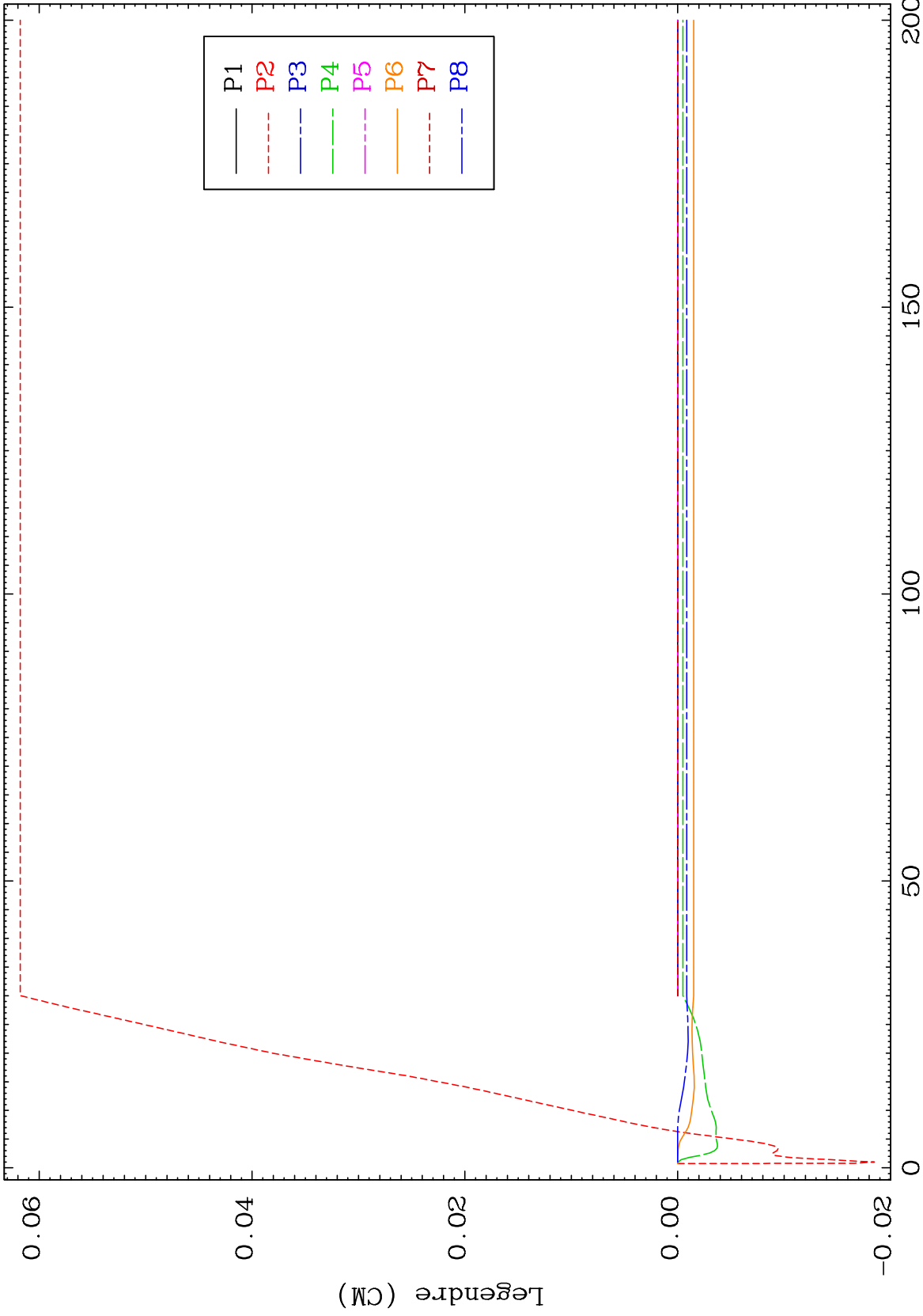
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



26

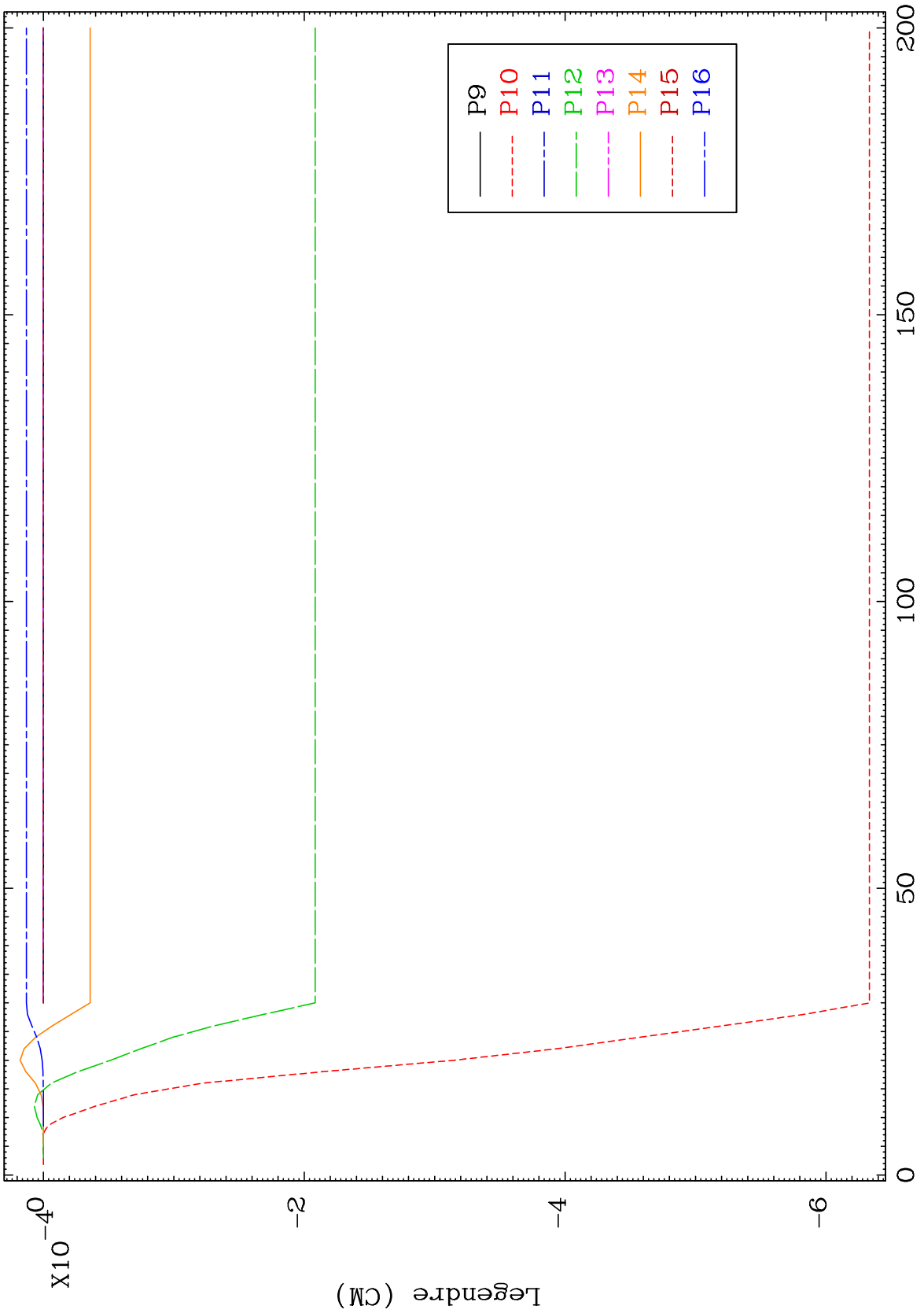
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



27

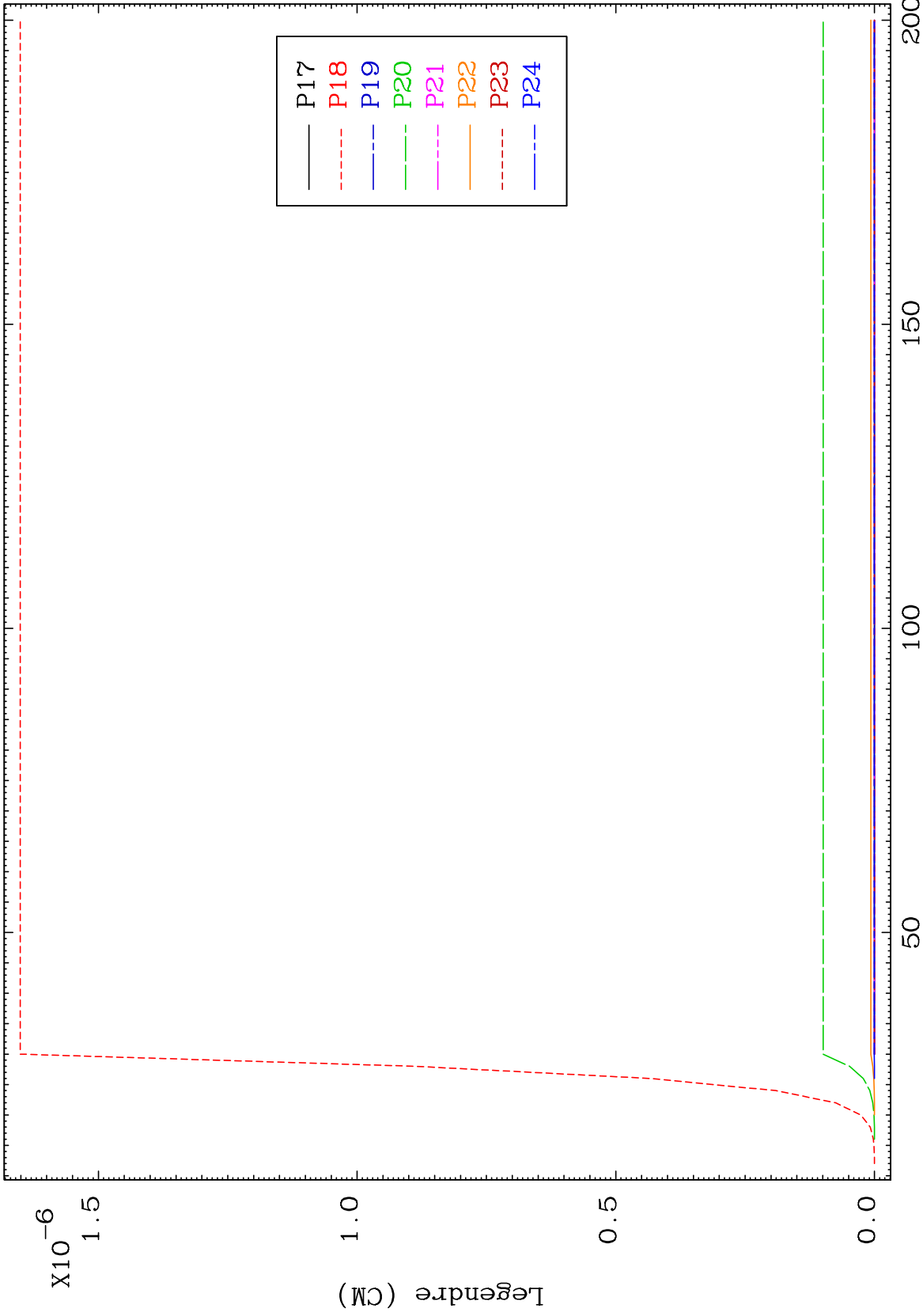
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



28

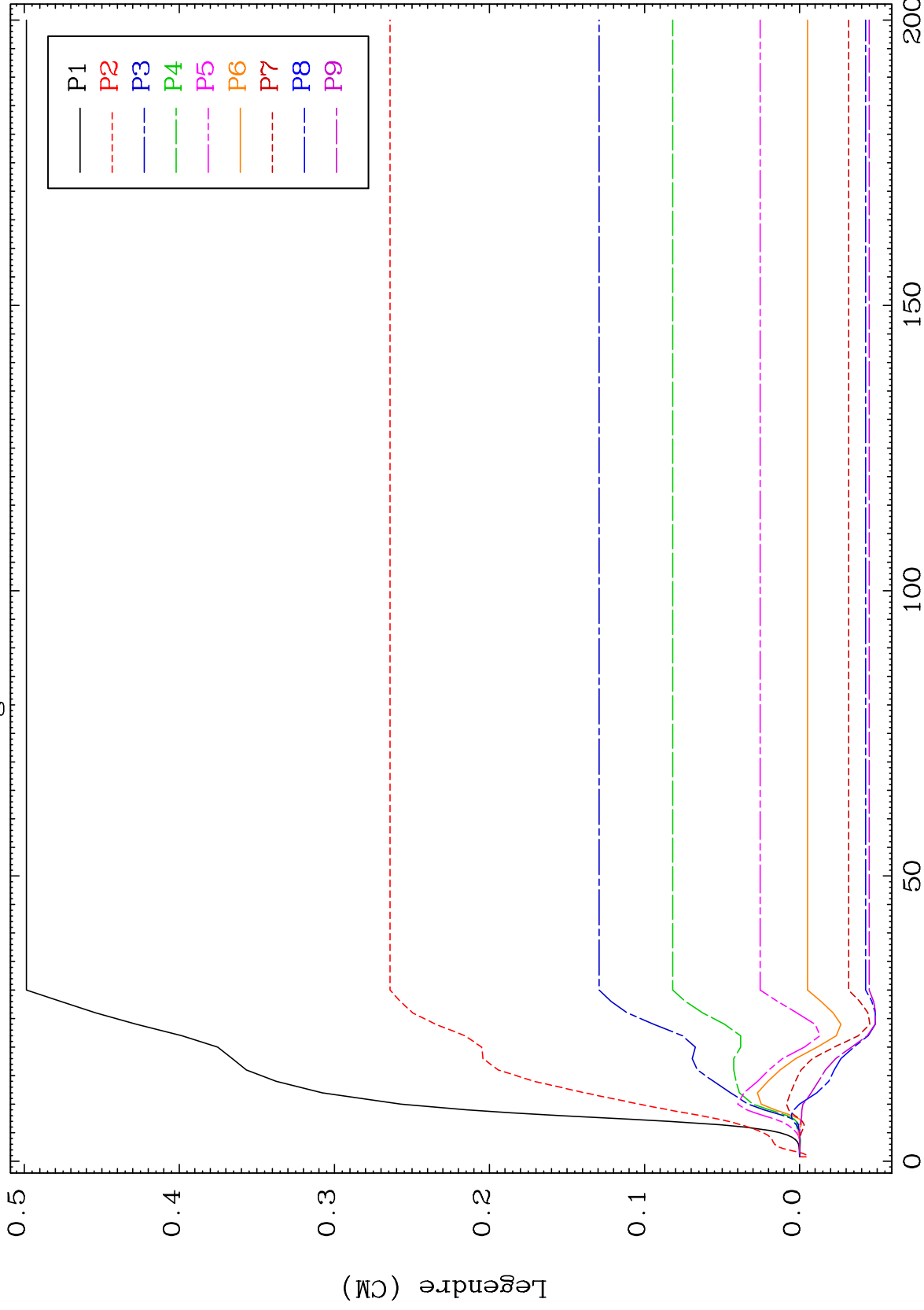
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



29

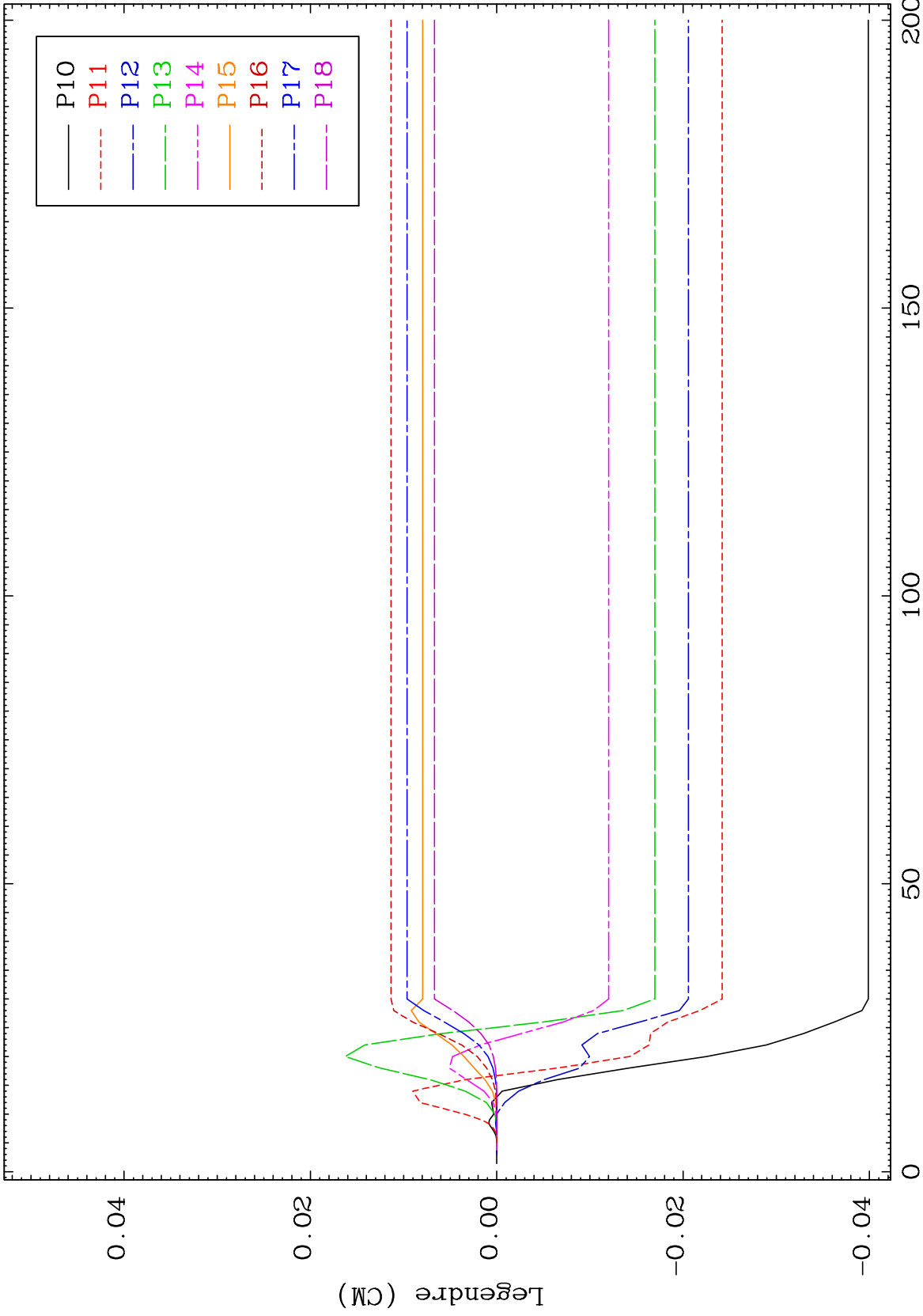
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

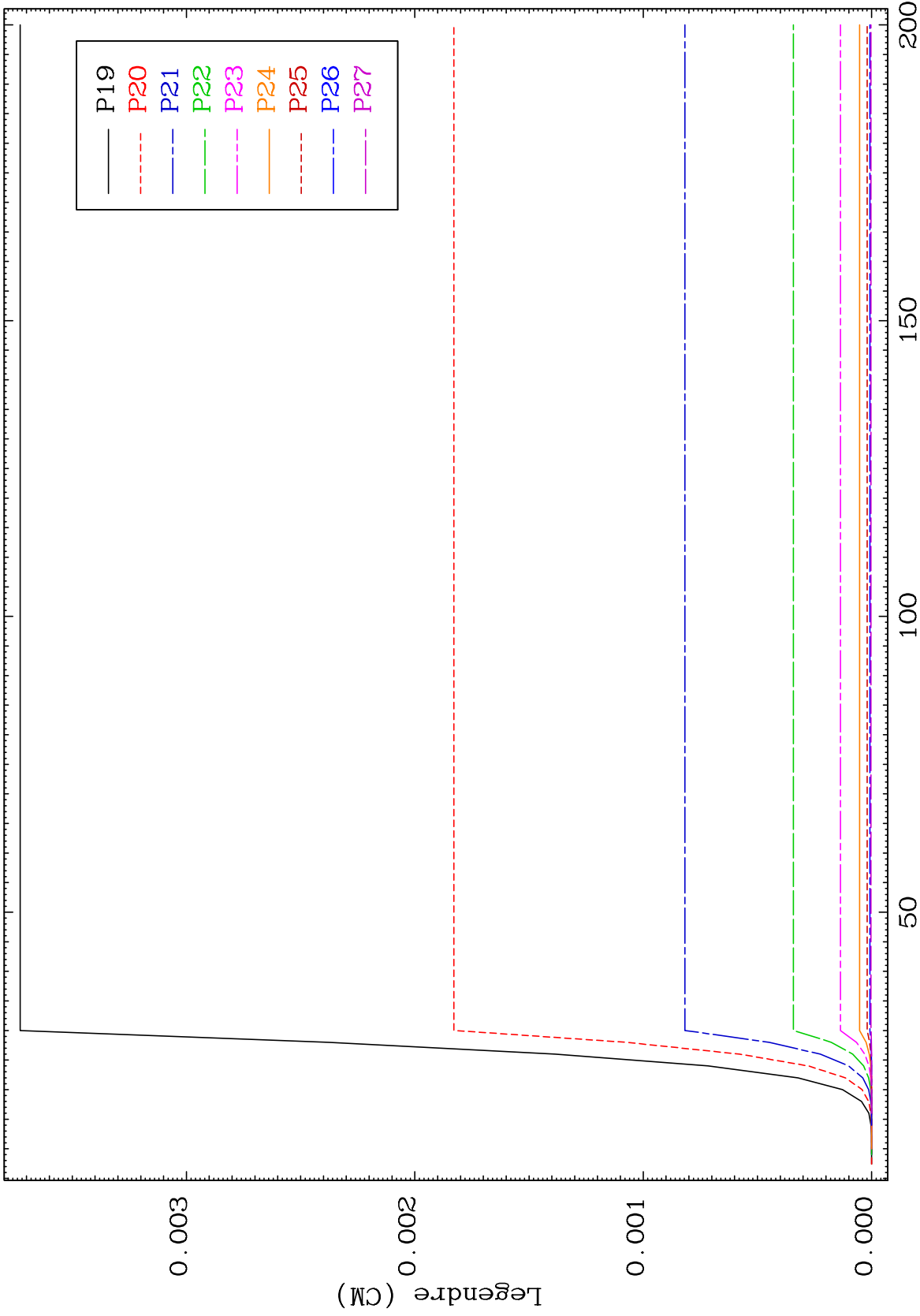
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Incident Energy (MeV)

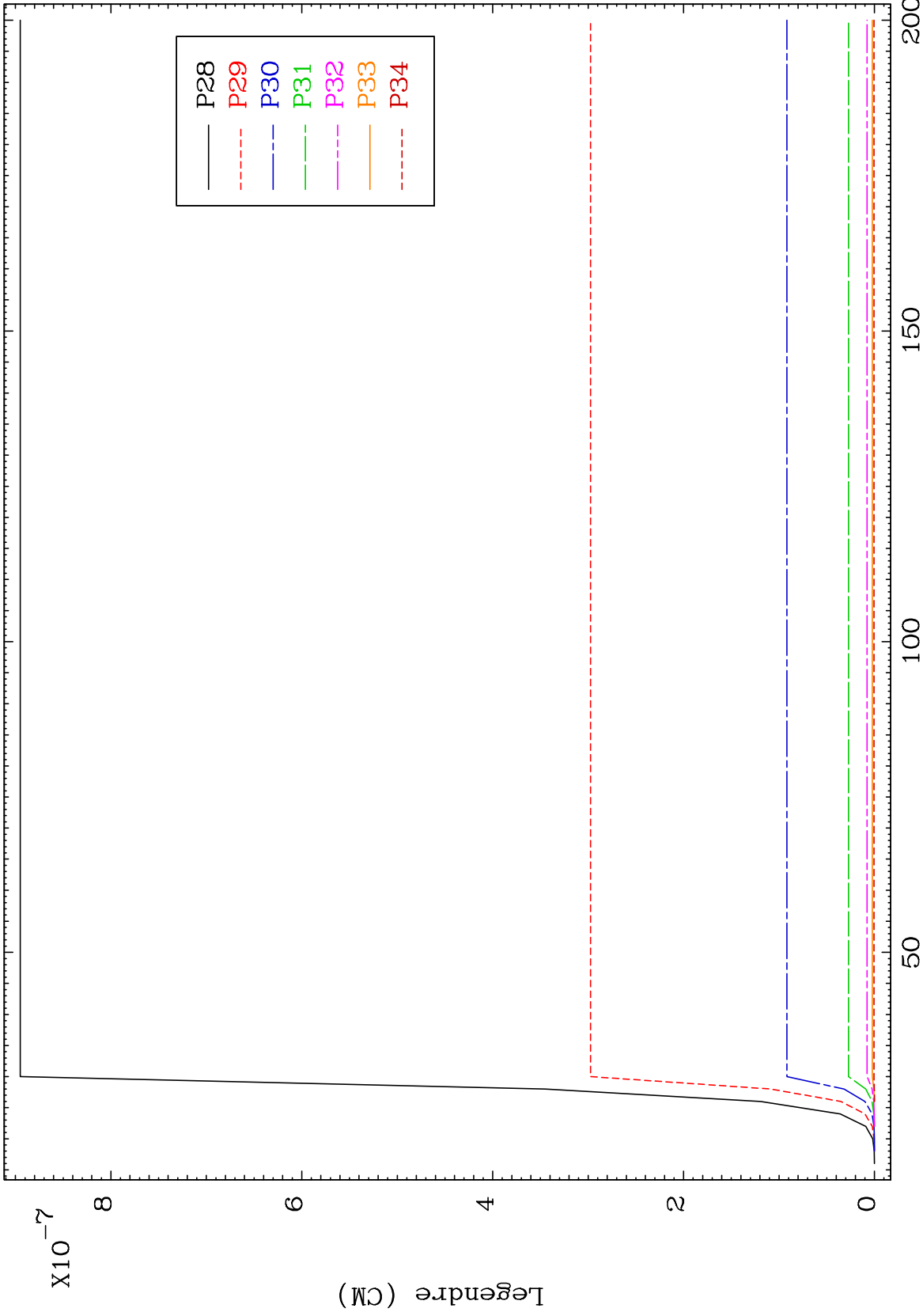
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MAT 4131

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

41-Nb-95



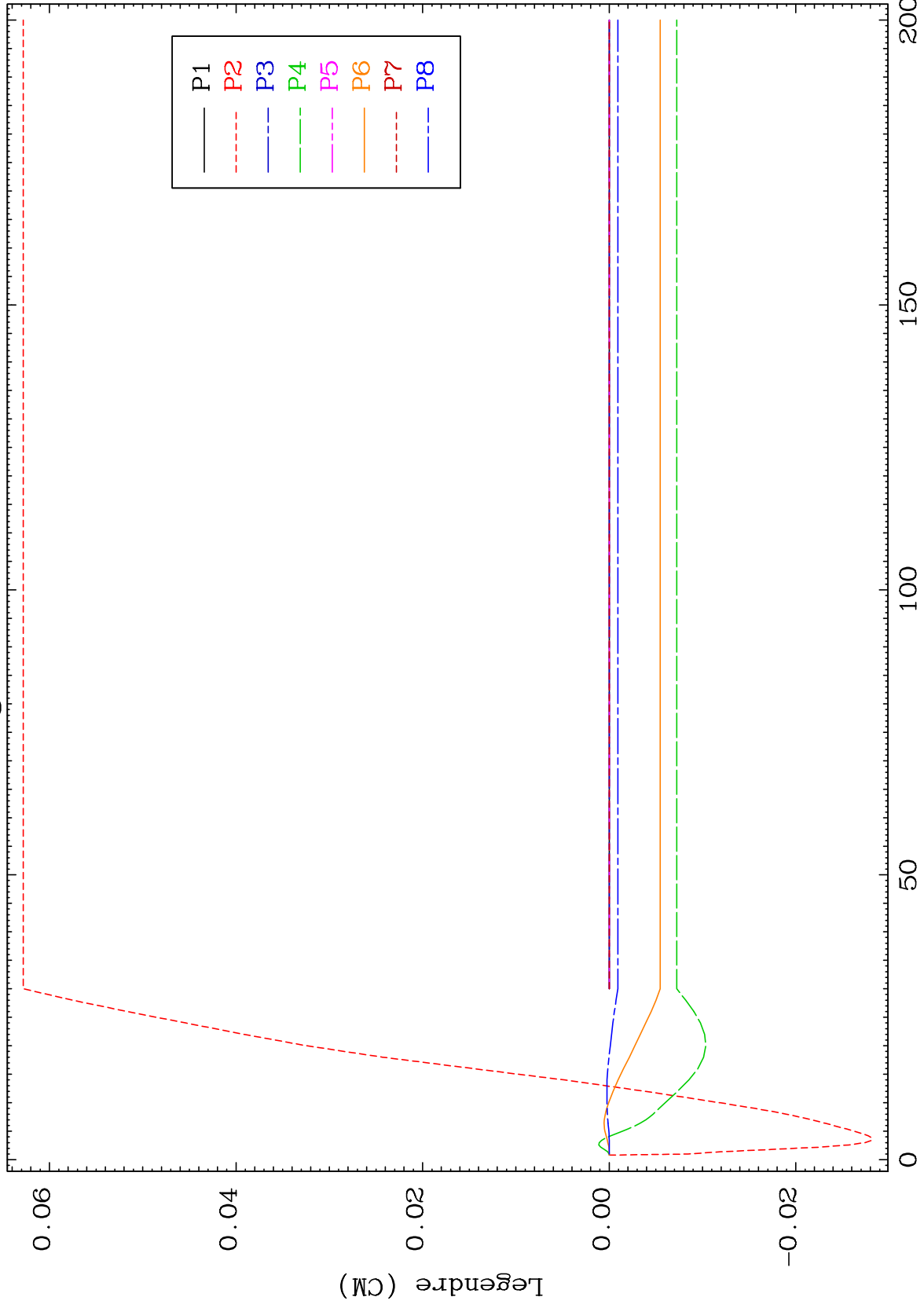
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41-Nb-95

MAT 4131

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

41-Nb-95



33

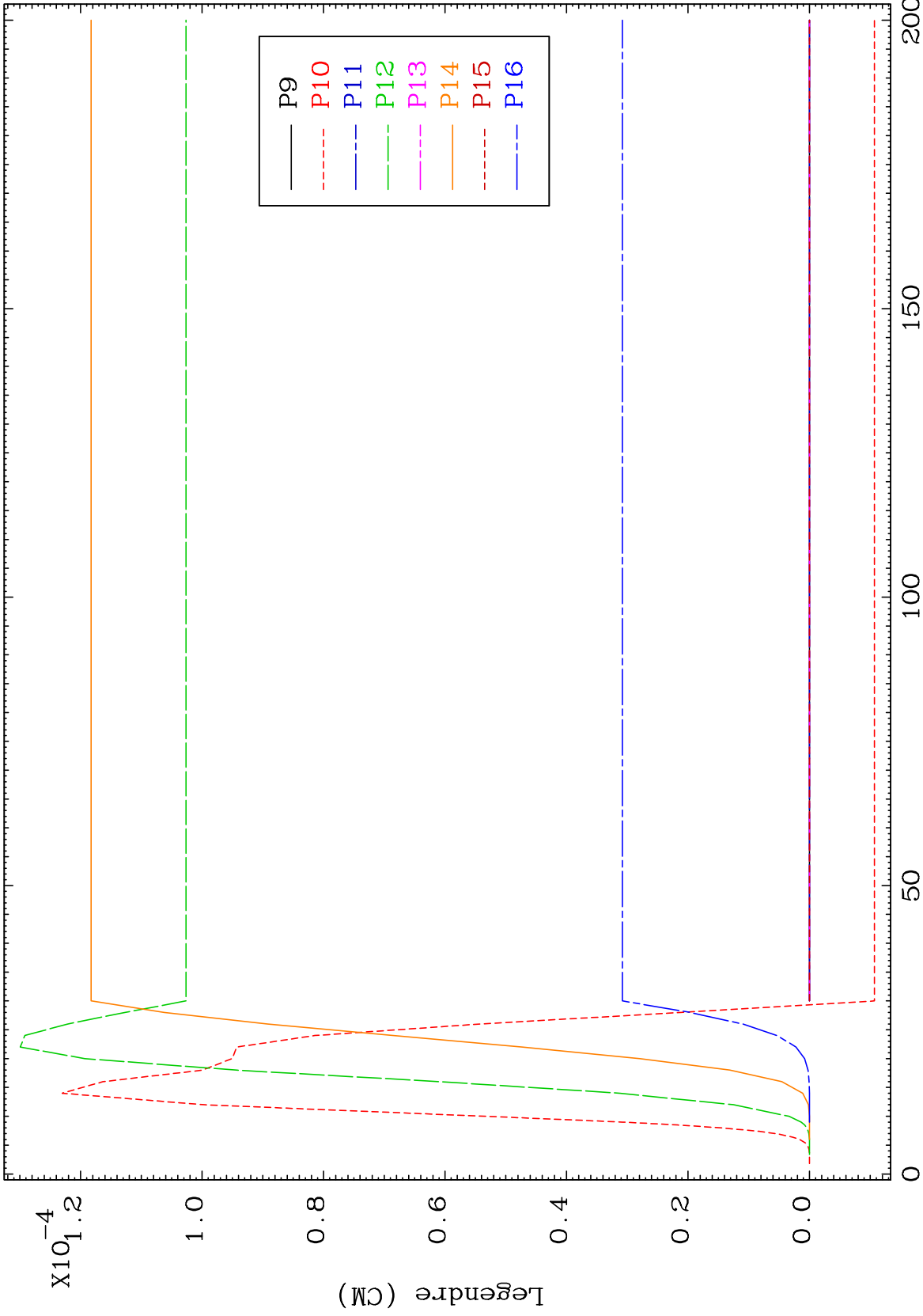
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95

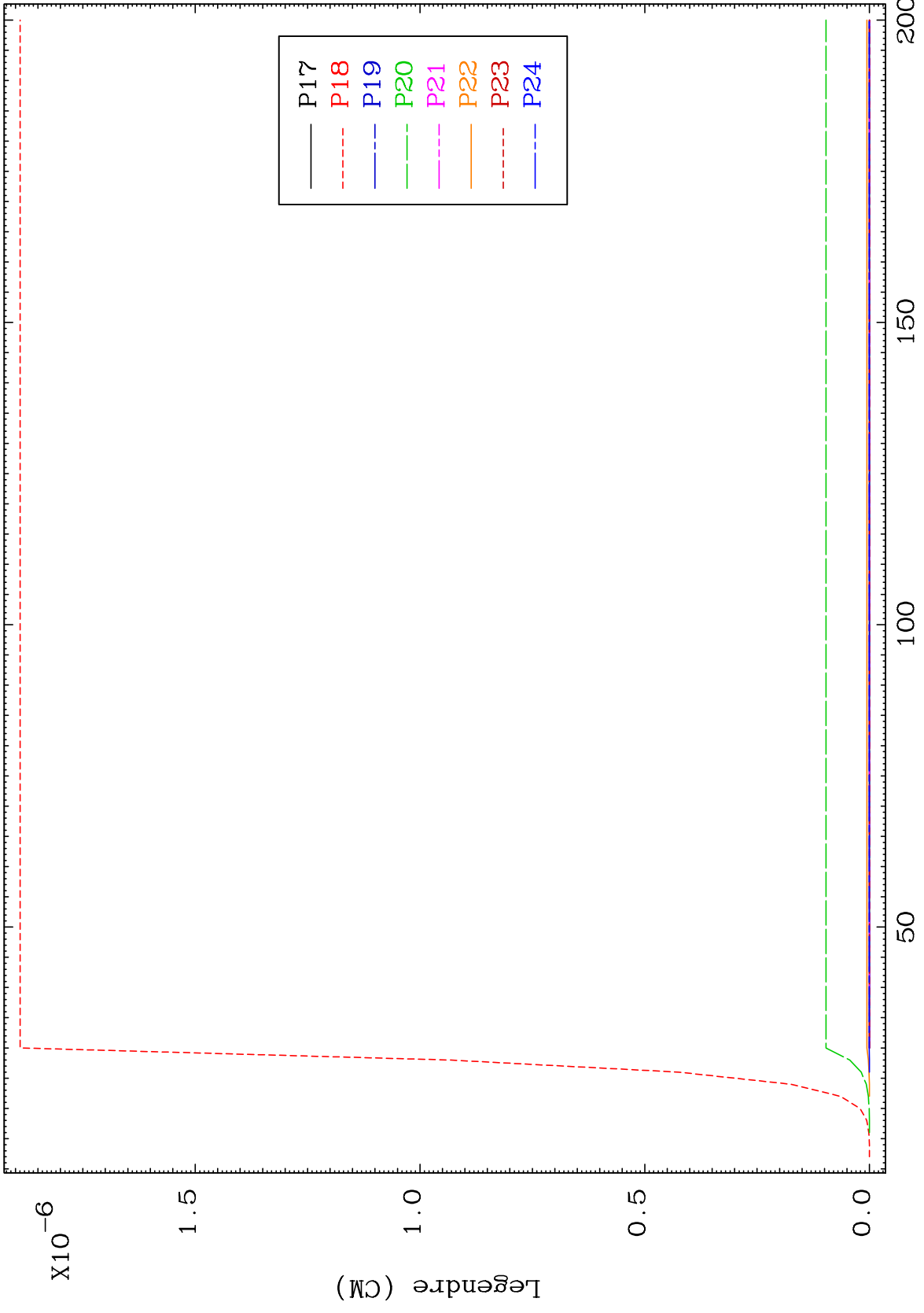


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Incident Energy (MeV)

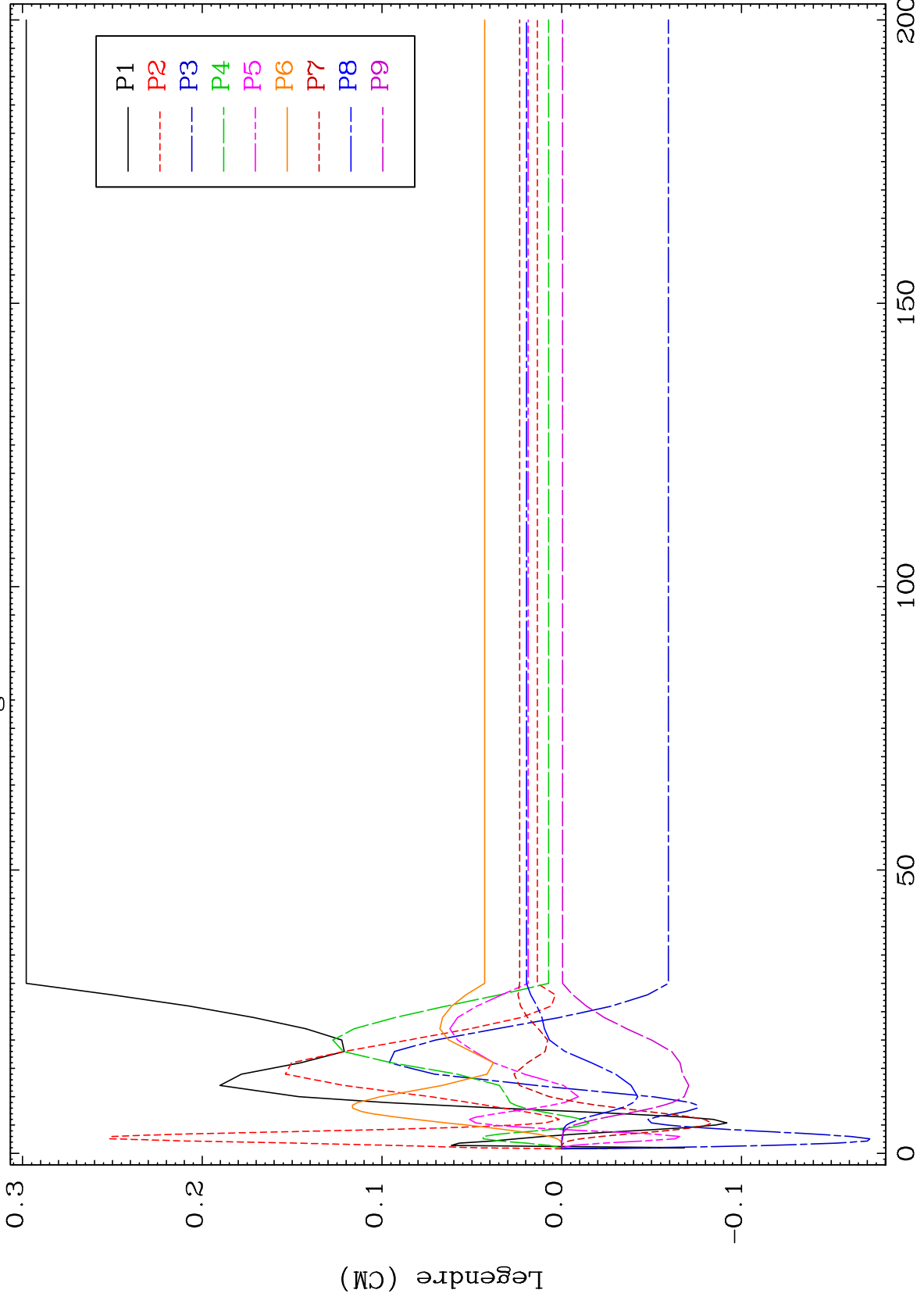
41-Nb-95

MAT 4131 MT= 55 (n,n') Level Legendre Coefficients 41-Nb-95



35 Incident Energy (MeV) 41-Nb-95

MAT 4131 MT= 56 (n,n') Level Legendre Coefficients 41-Nb-95

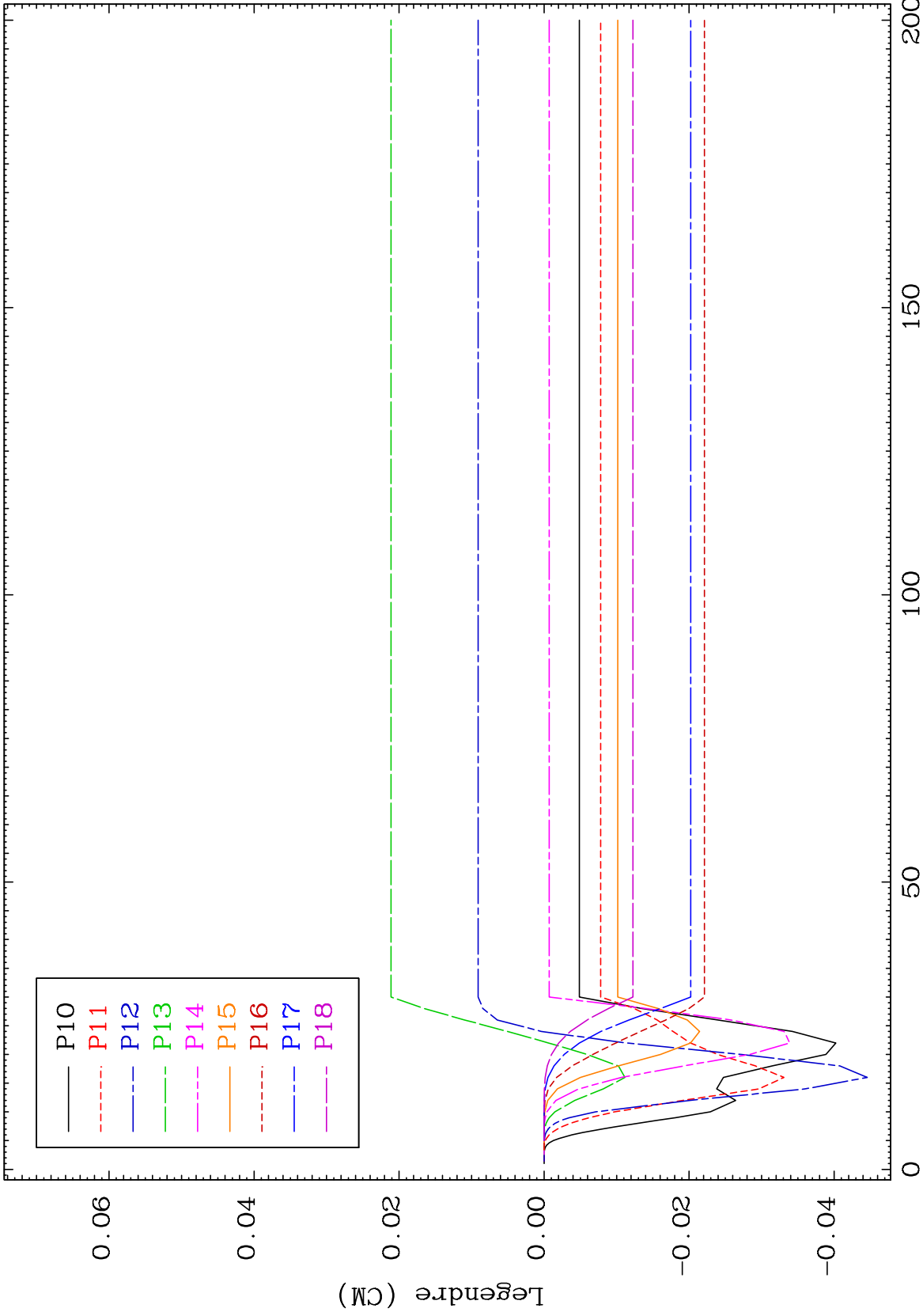


36 41-Nb-95

MAT 4131

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

41-Nb-95

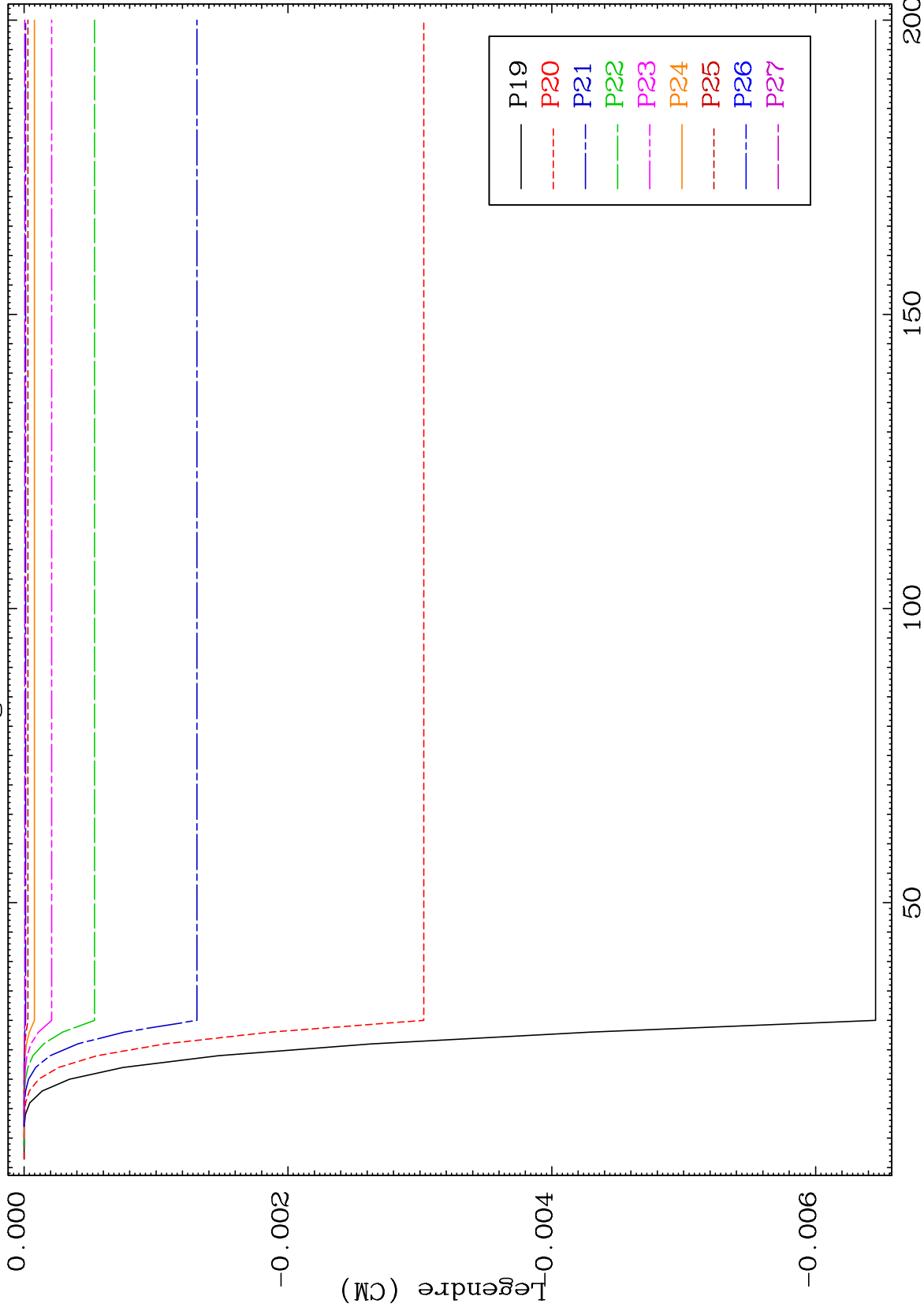


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Incident Energy (MeV)

41-Nb-95

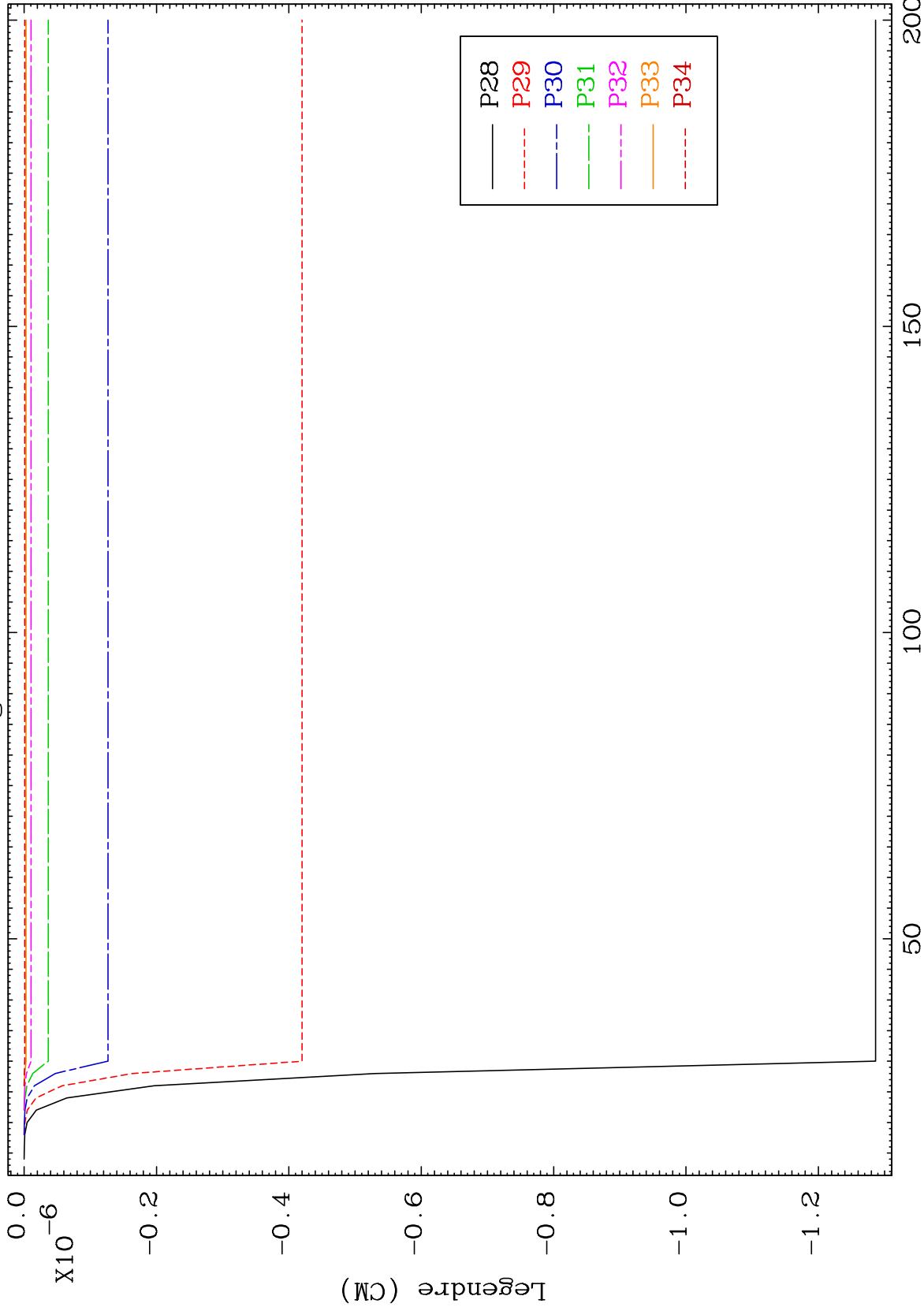
MAT 4131 MT= 56 (n,n') Level Legendre Coefficients 41-Nb-95



MAT 4131

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

41-Nb-95



41-Nb-95

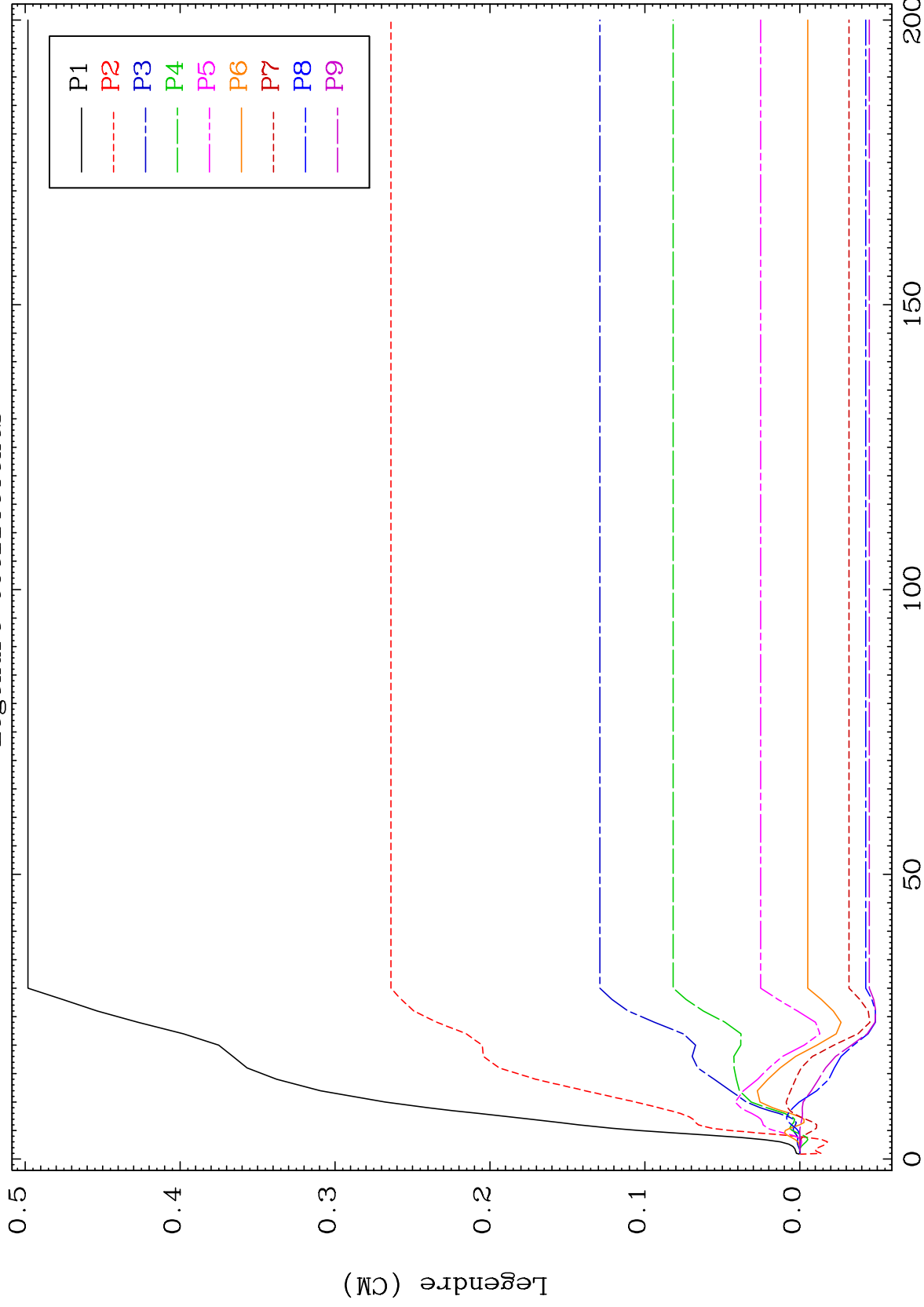
Incident Energy (MeV)

39

MAT 4131

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

41-Nb-95



40

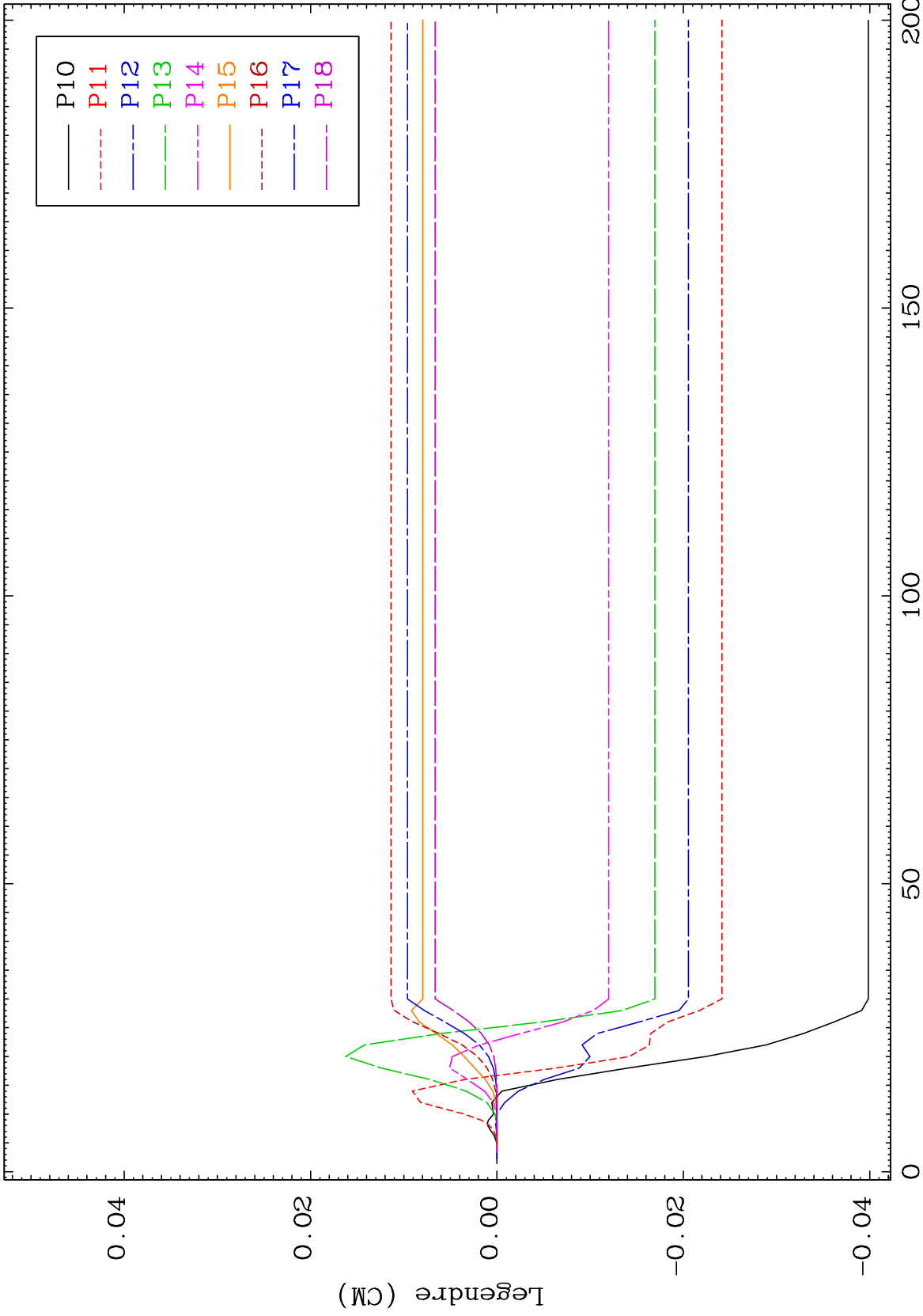
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



41

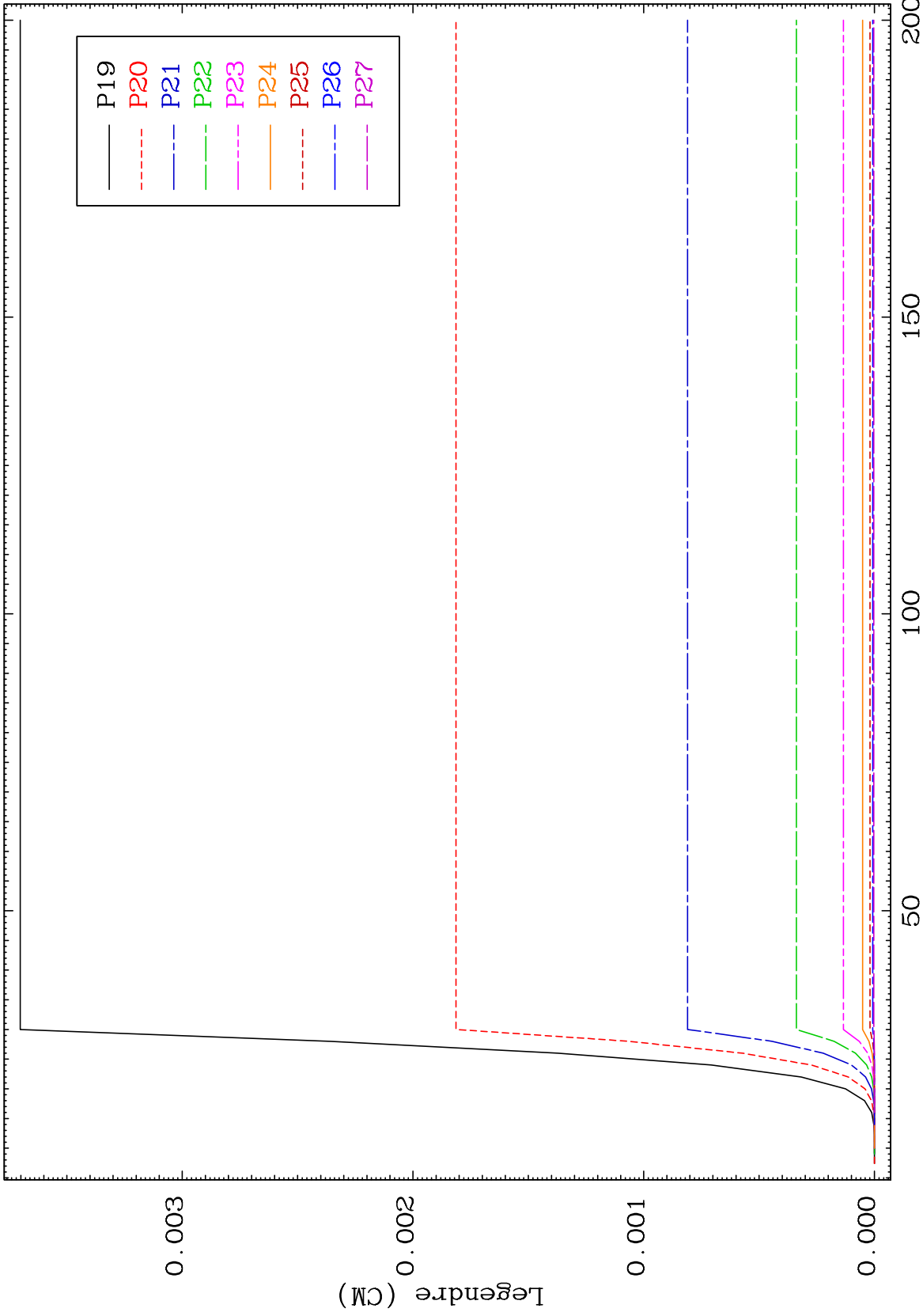
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



42

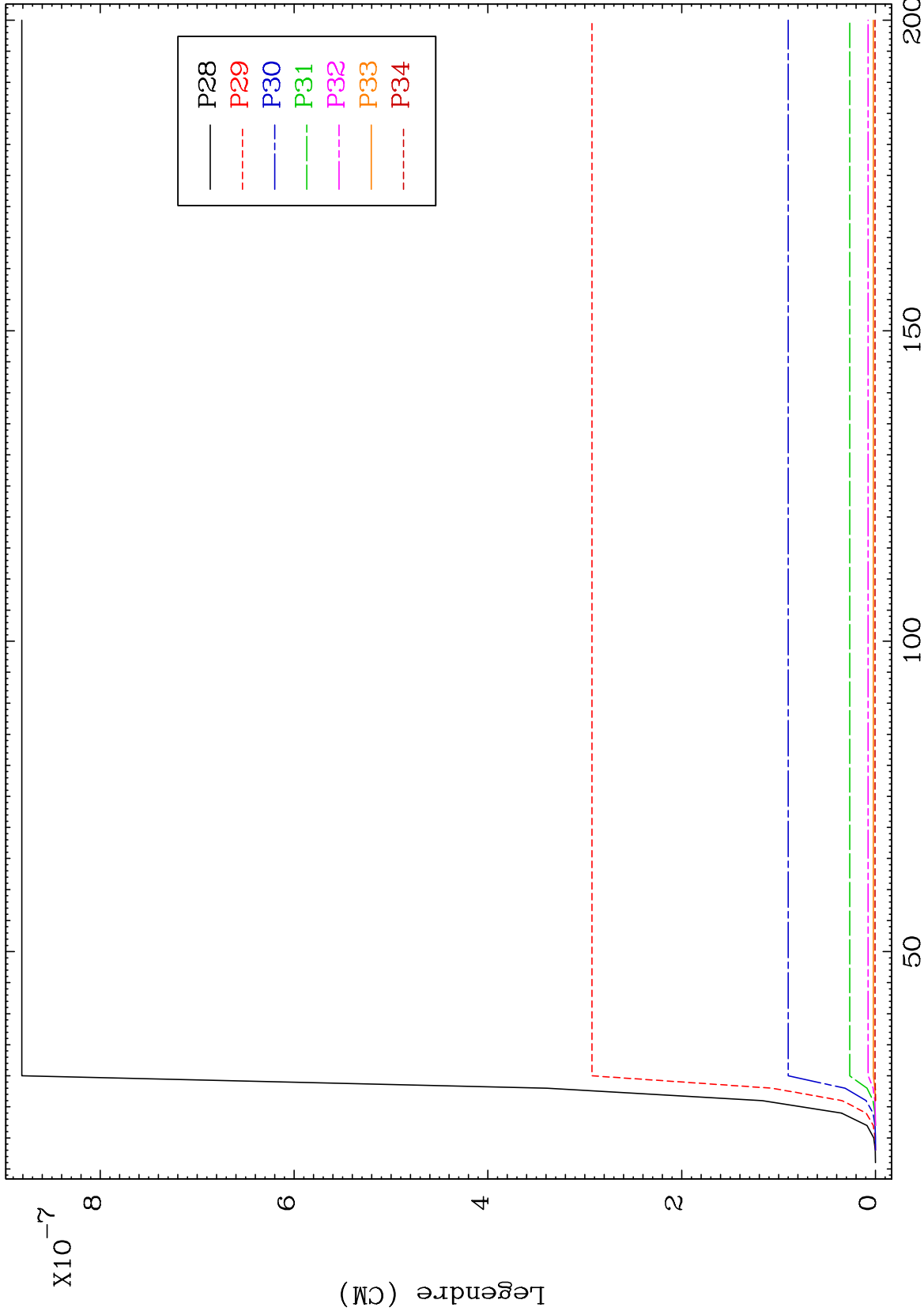
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



43

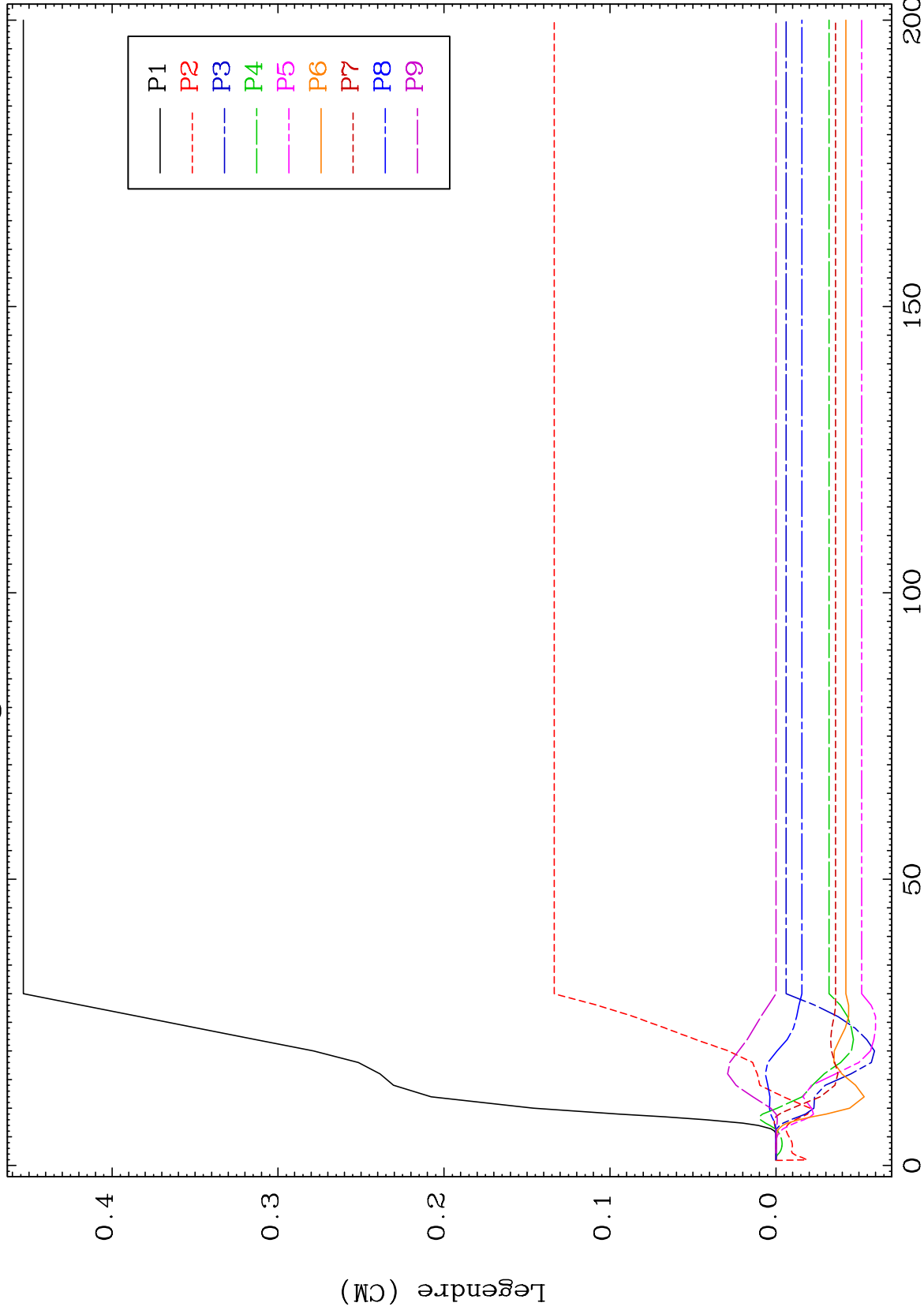
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



44

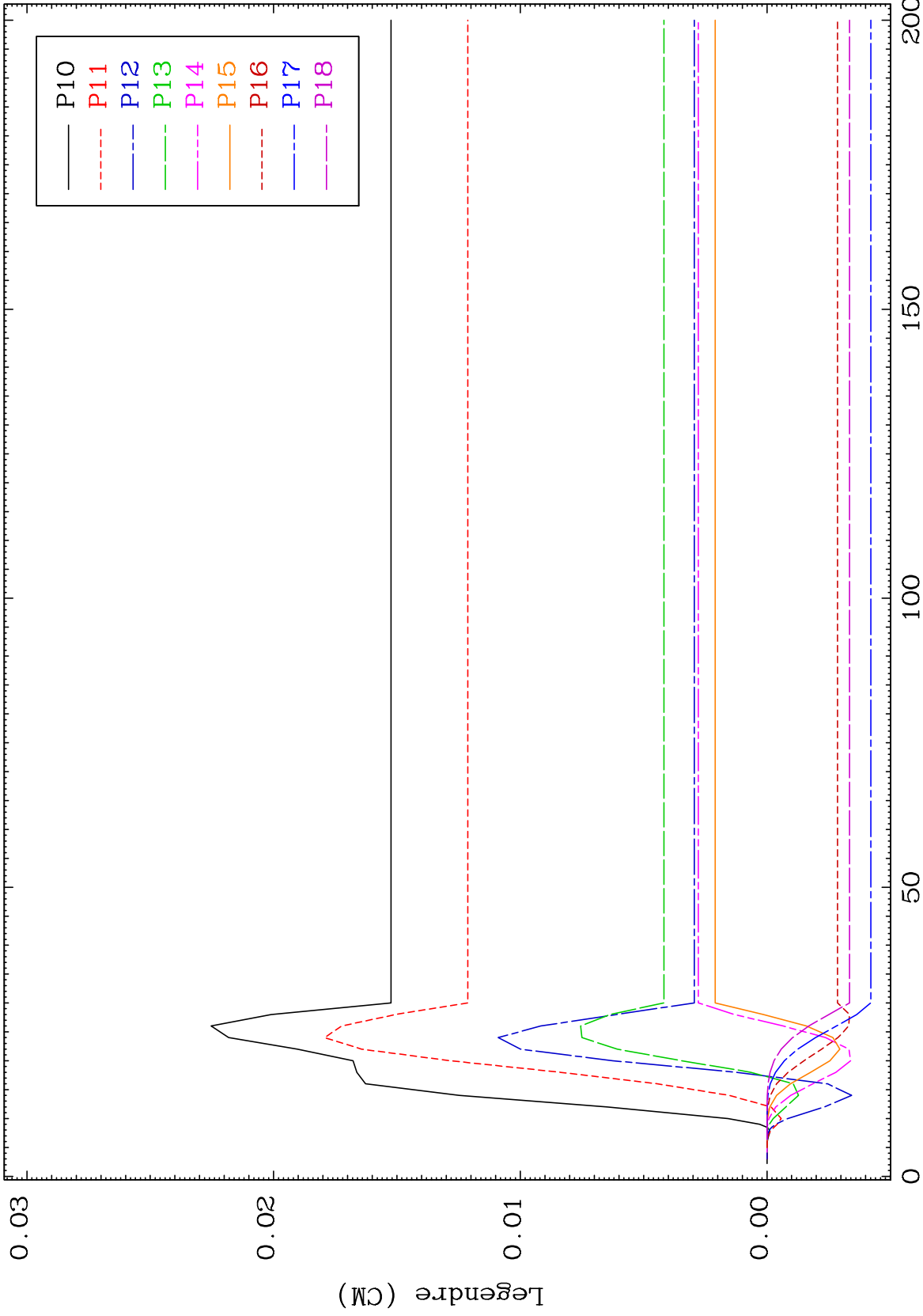
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



45

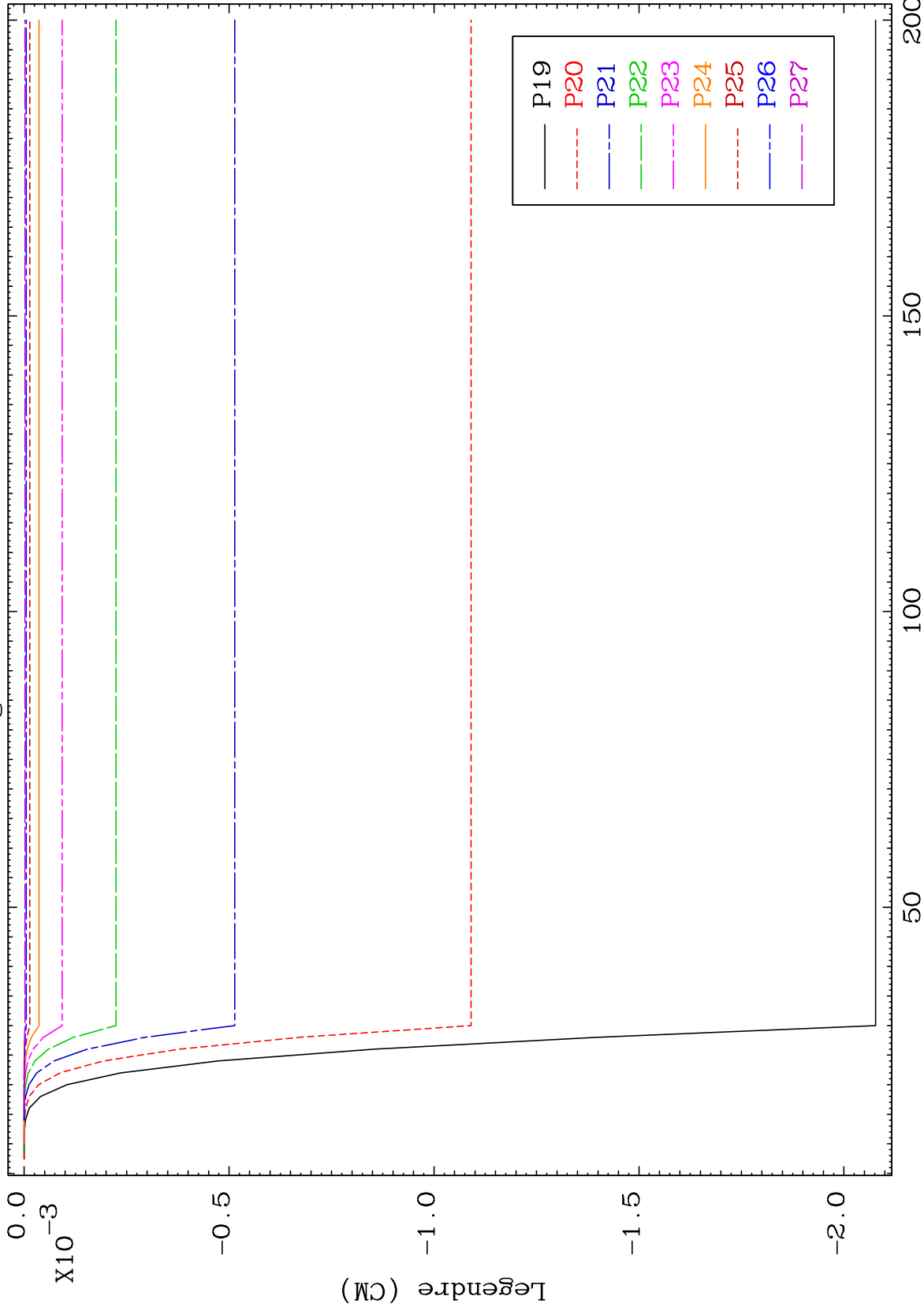
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



46

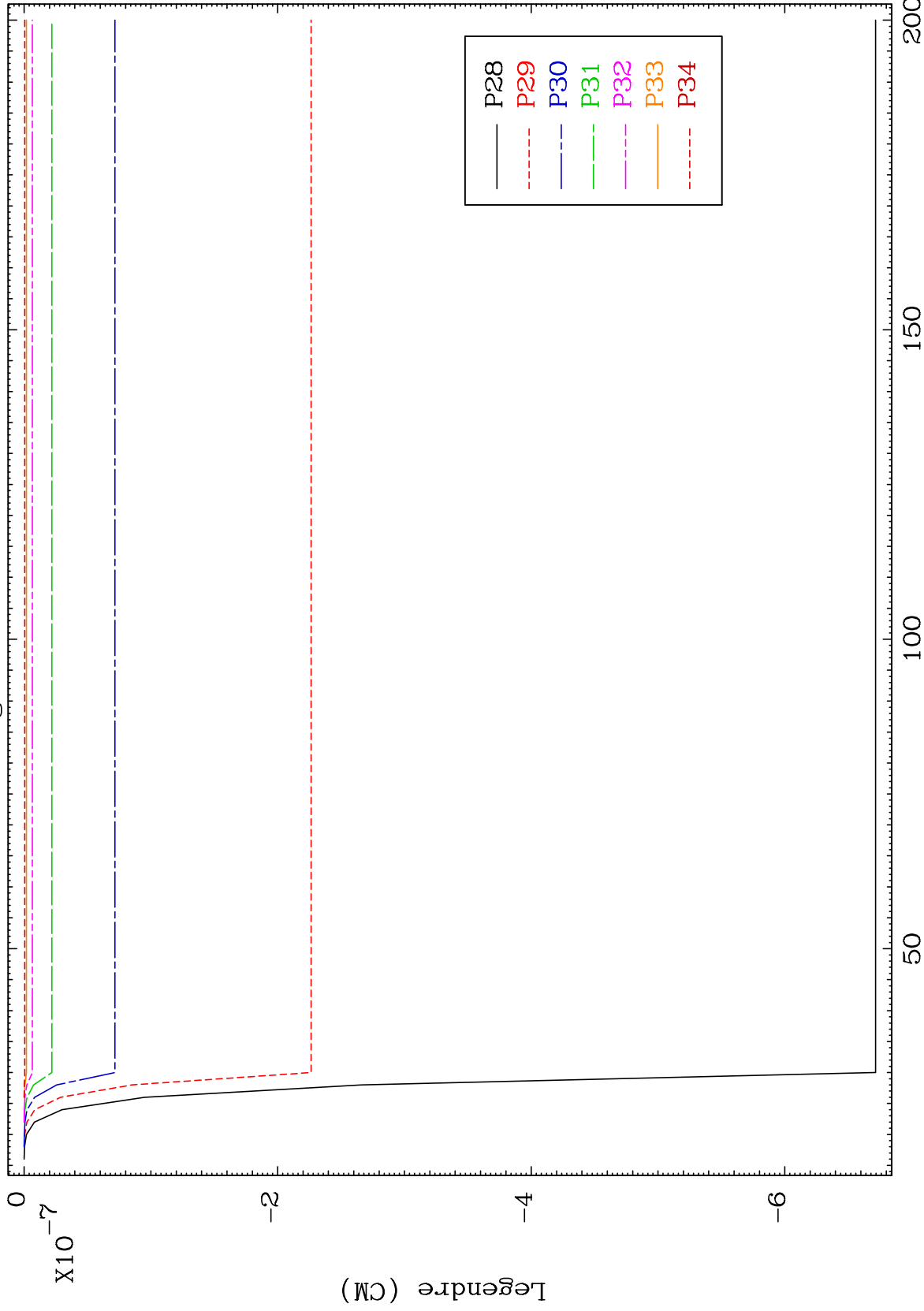
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



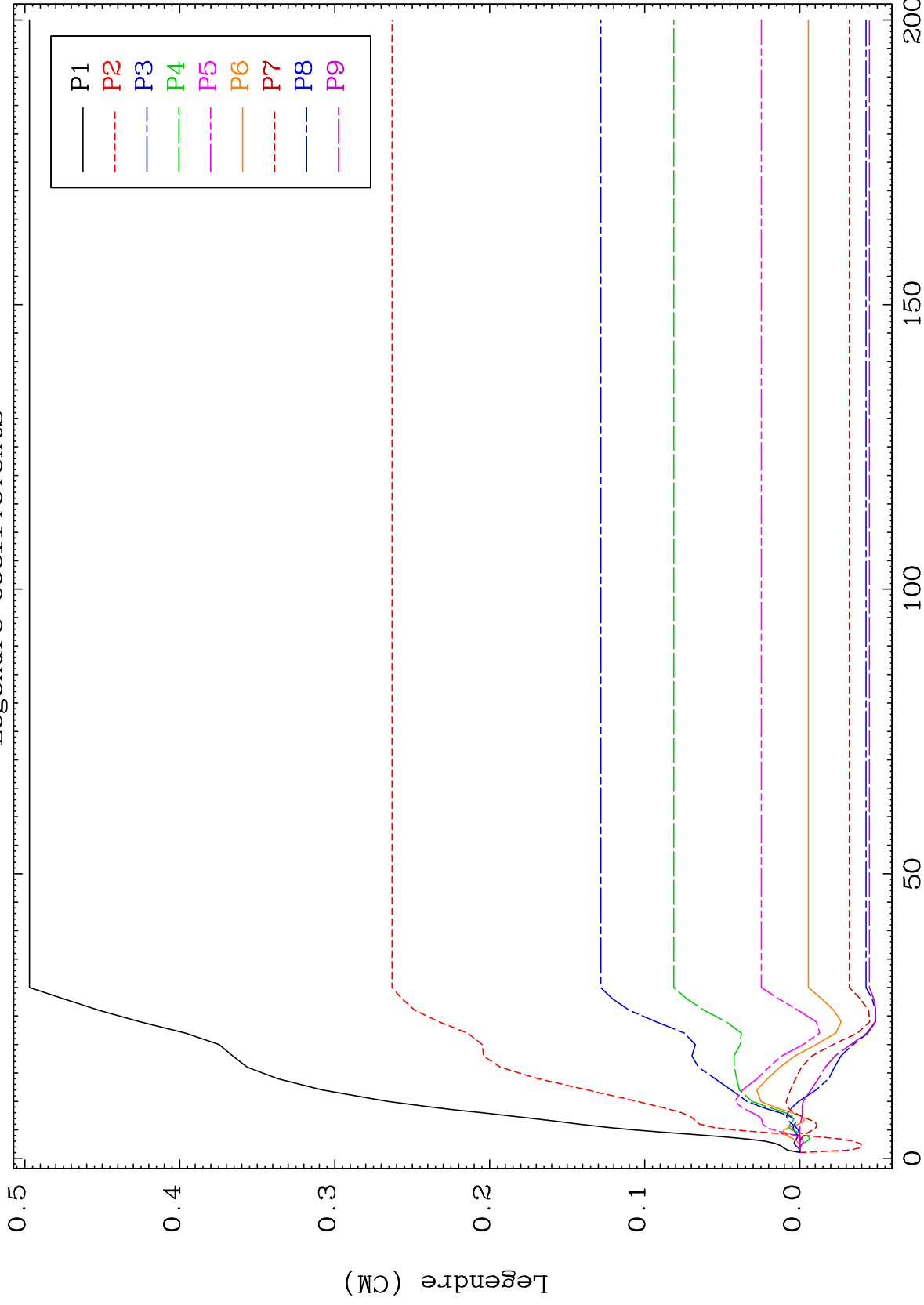
41-Nb-95

47

MAT 4131

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

41-Nb-95



48

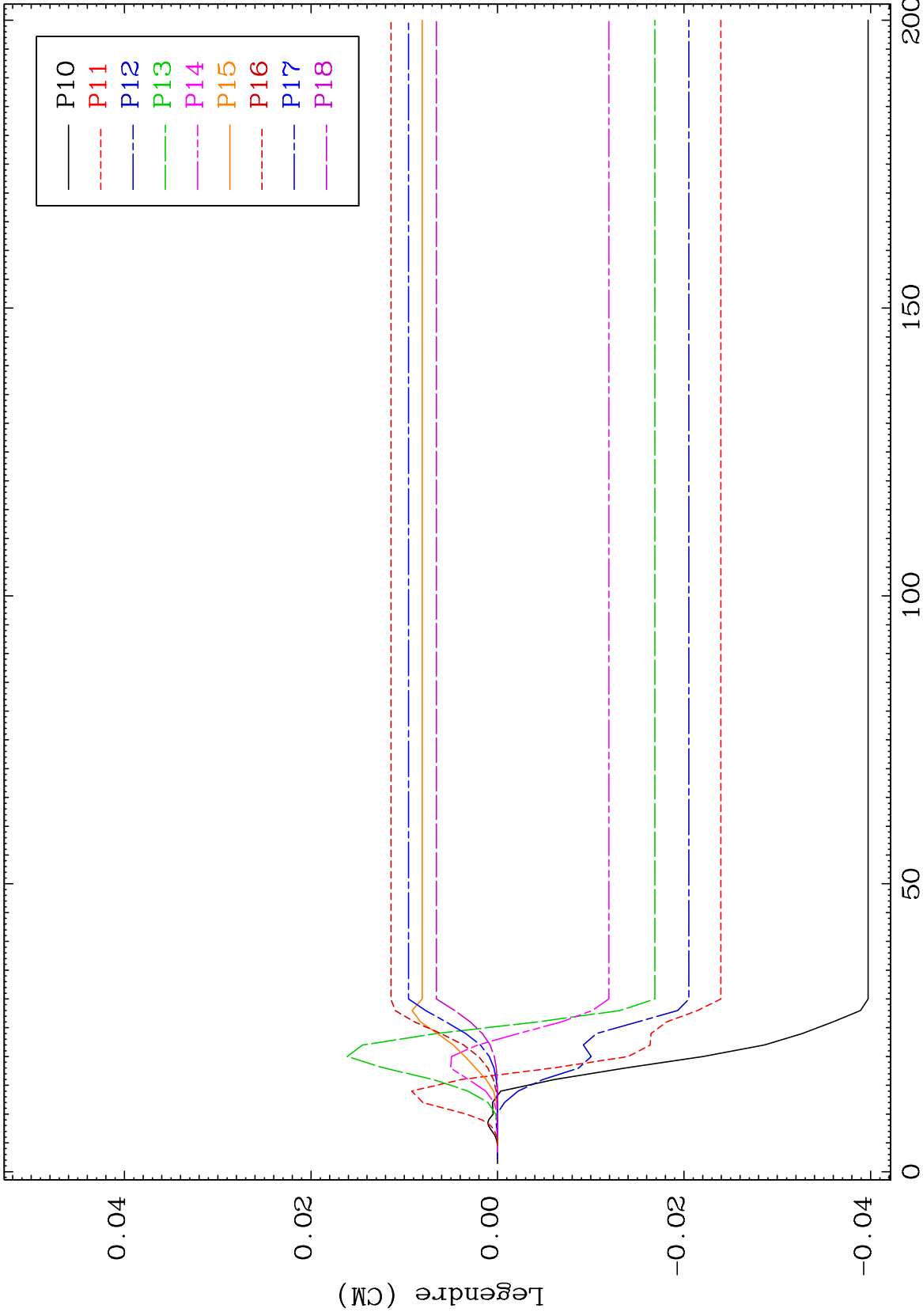
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



49

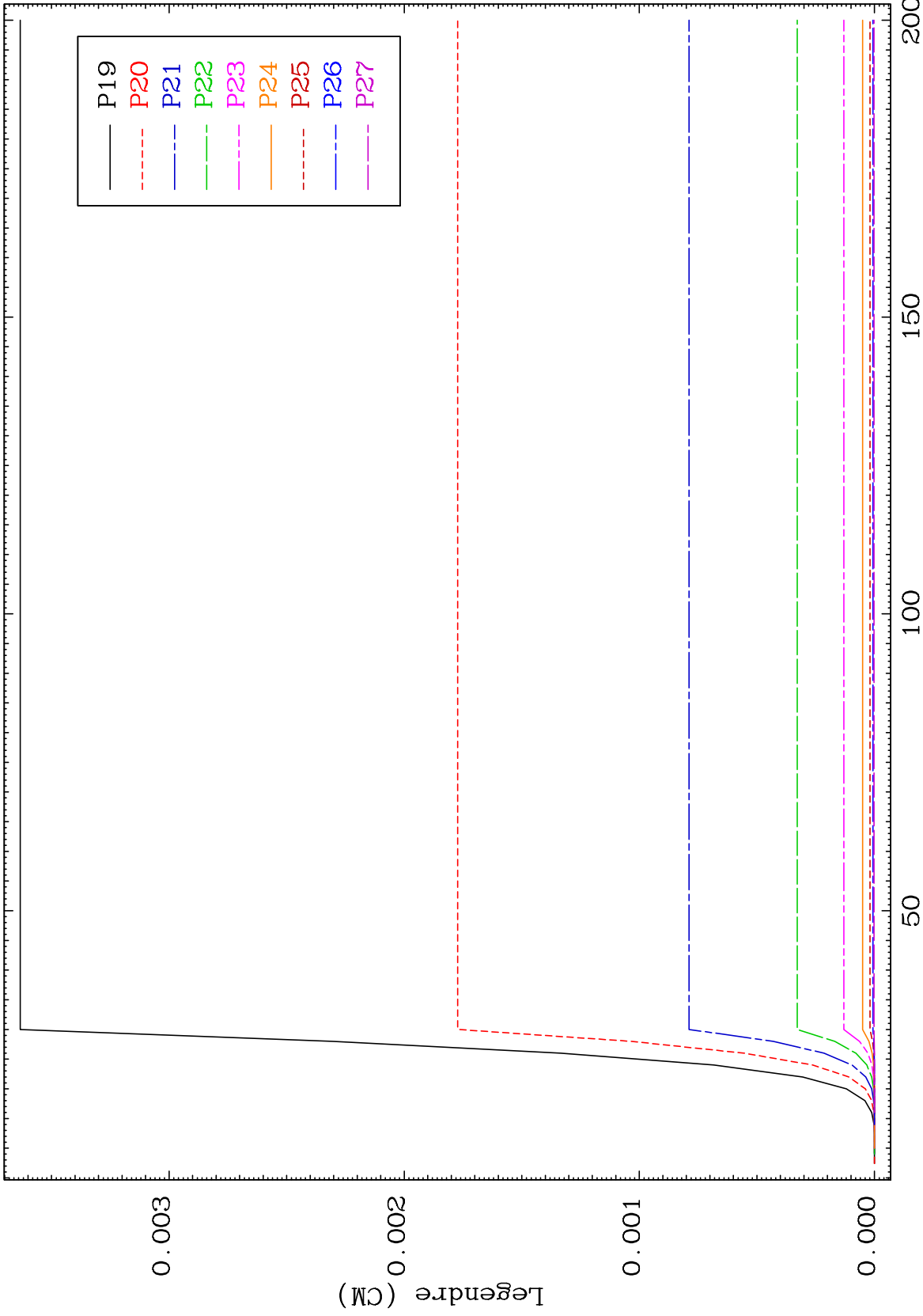
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



50

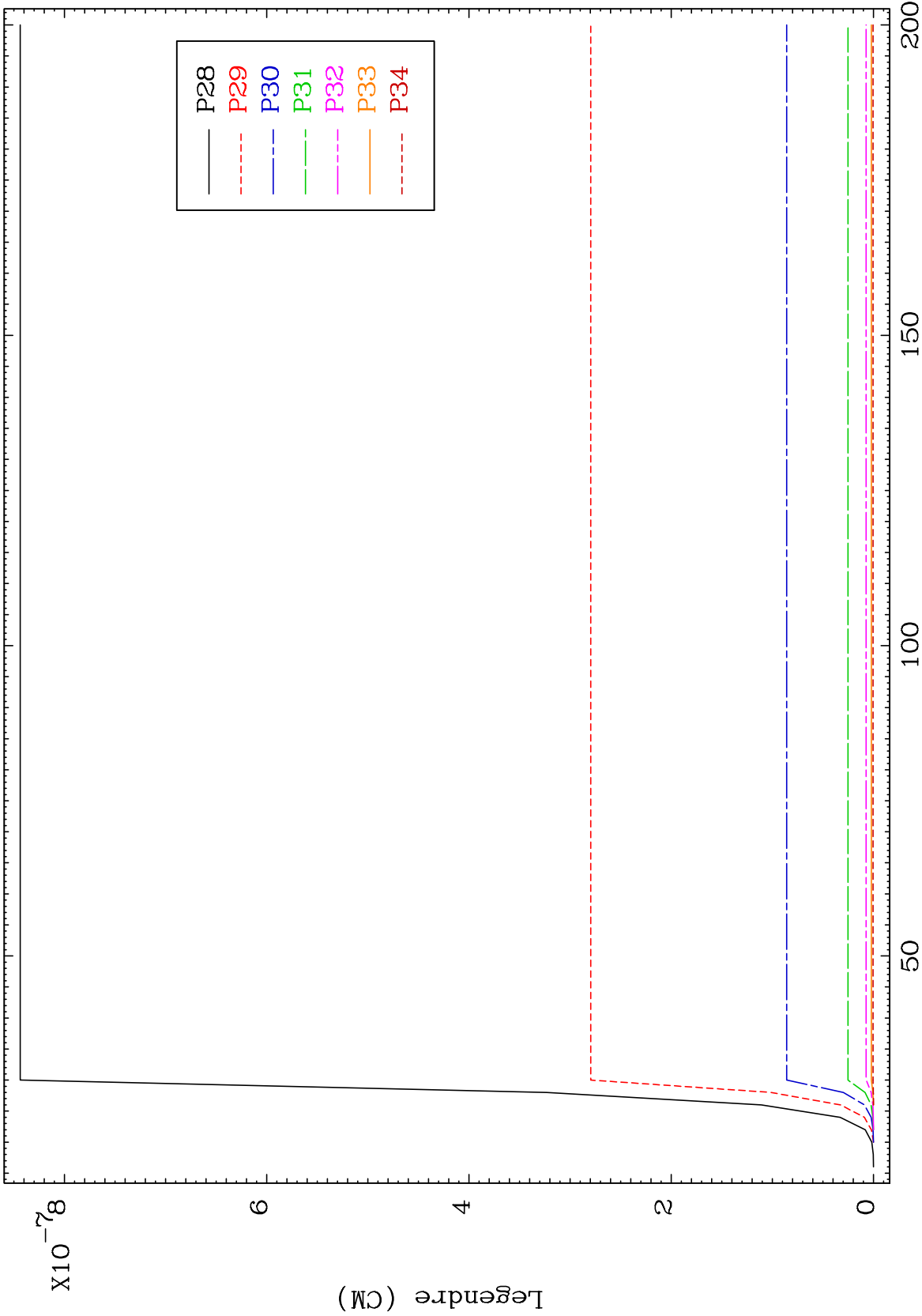
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



51

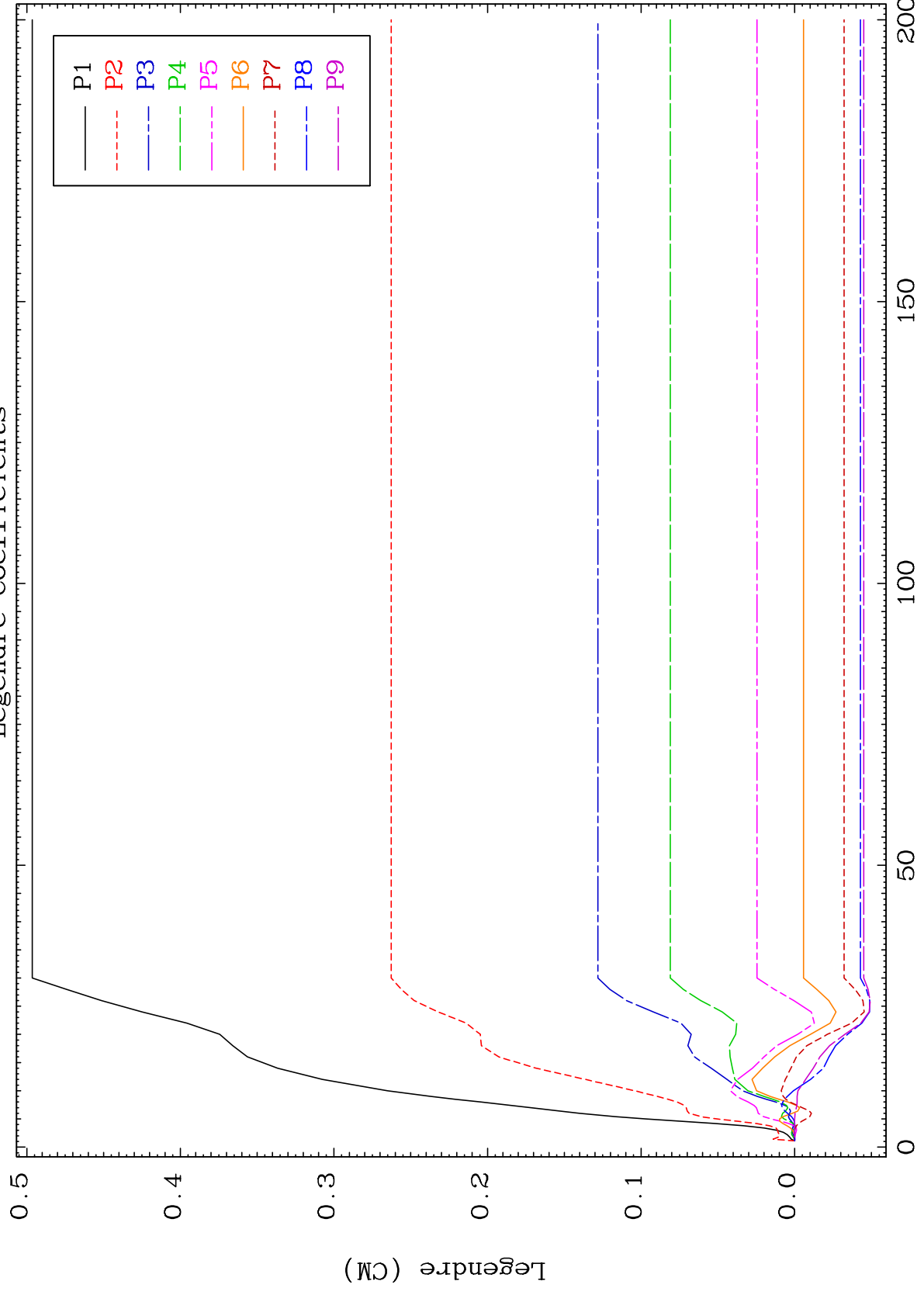
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



41-Nb-95

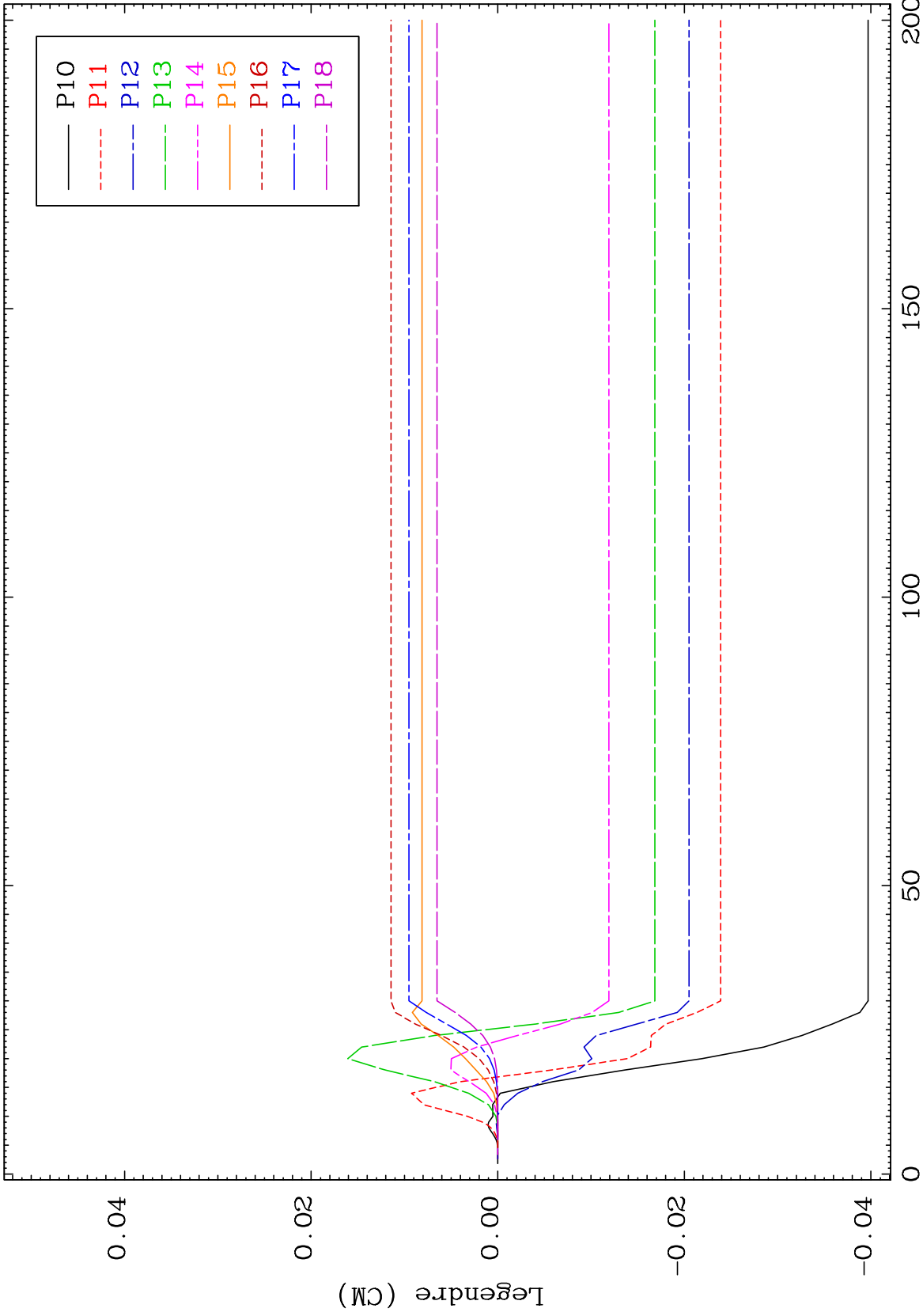
Incident Energy (MeV)

52

MAT 4131

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

41-Nb-95



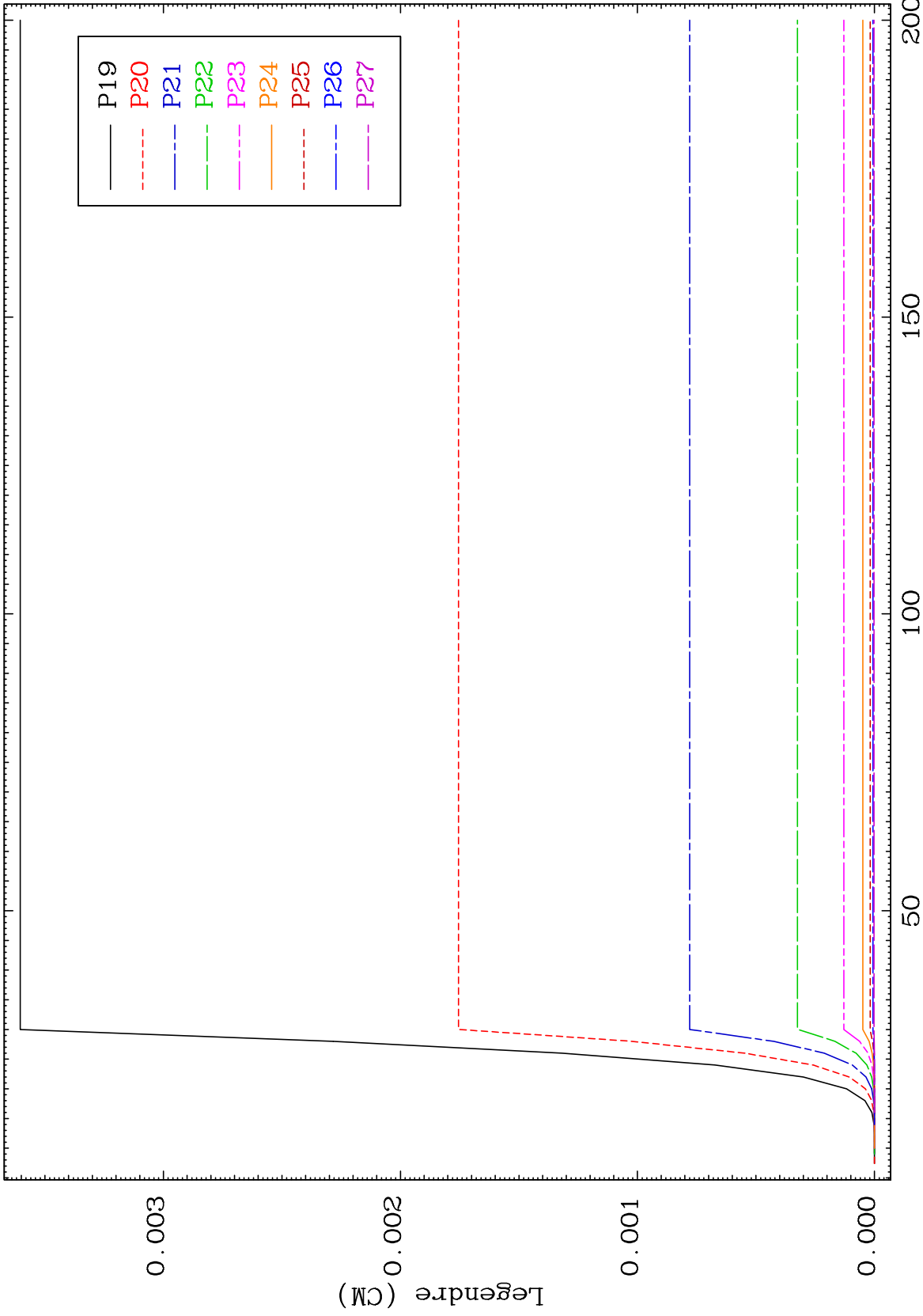
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41-Nb-95

MAT 4131

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

41-Nb-95



54

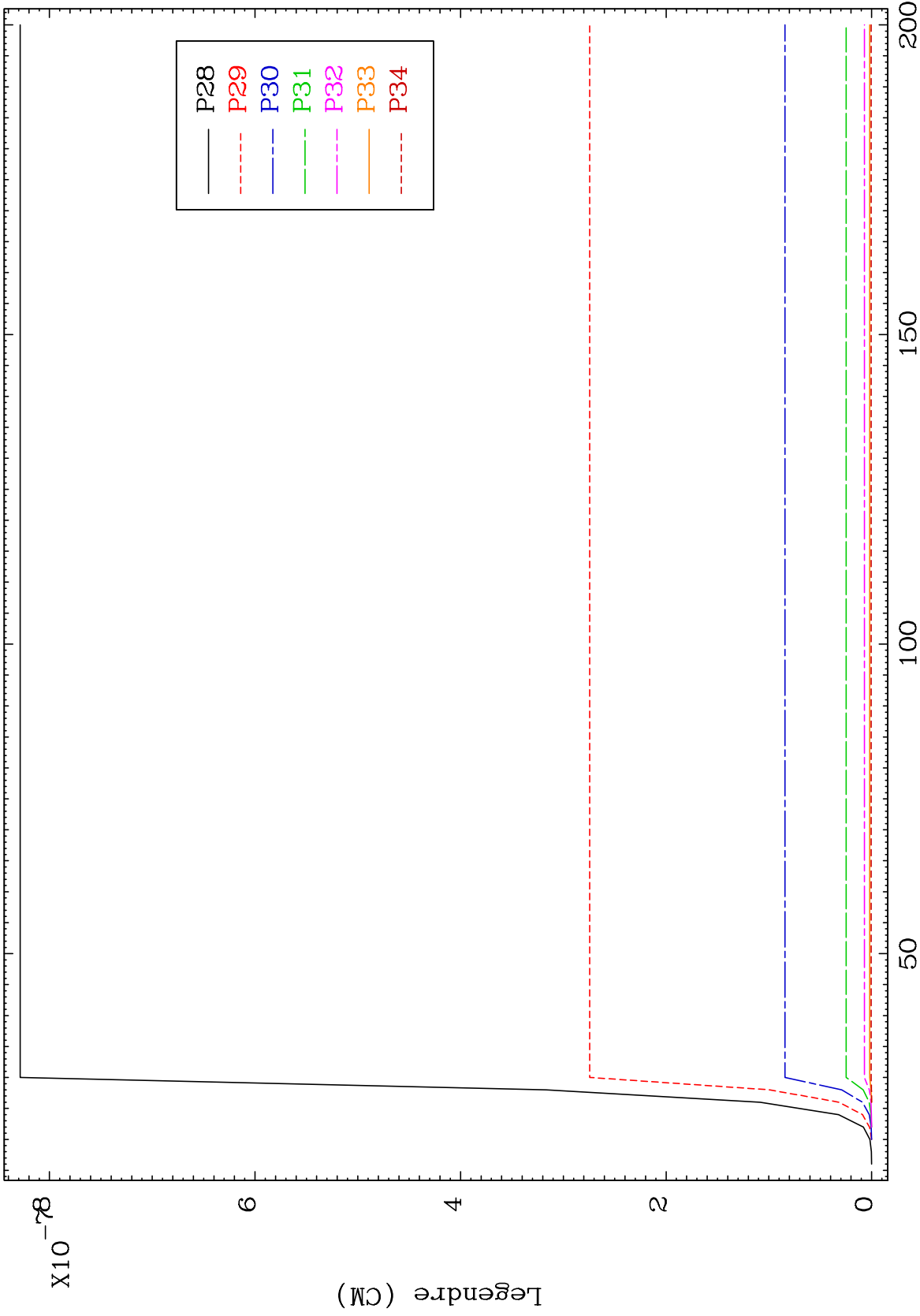
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



55

Incident Energy (MeV)

50

100

150

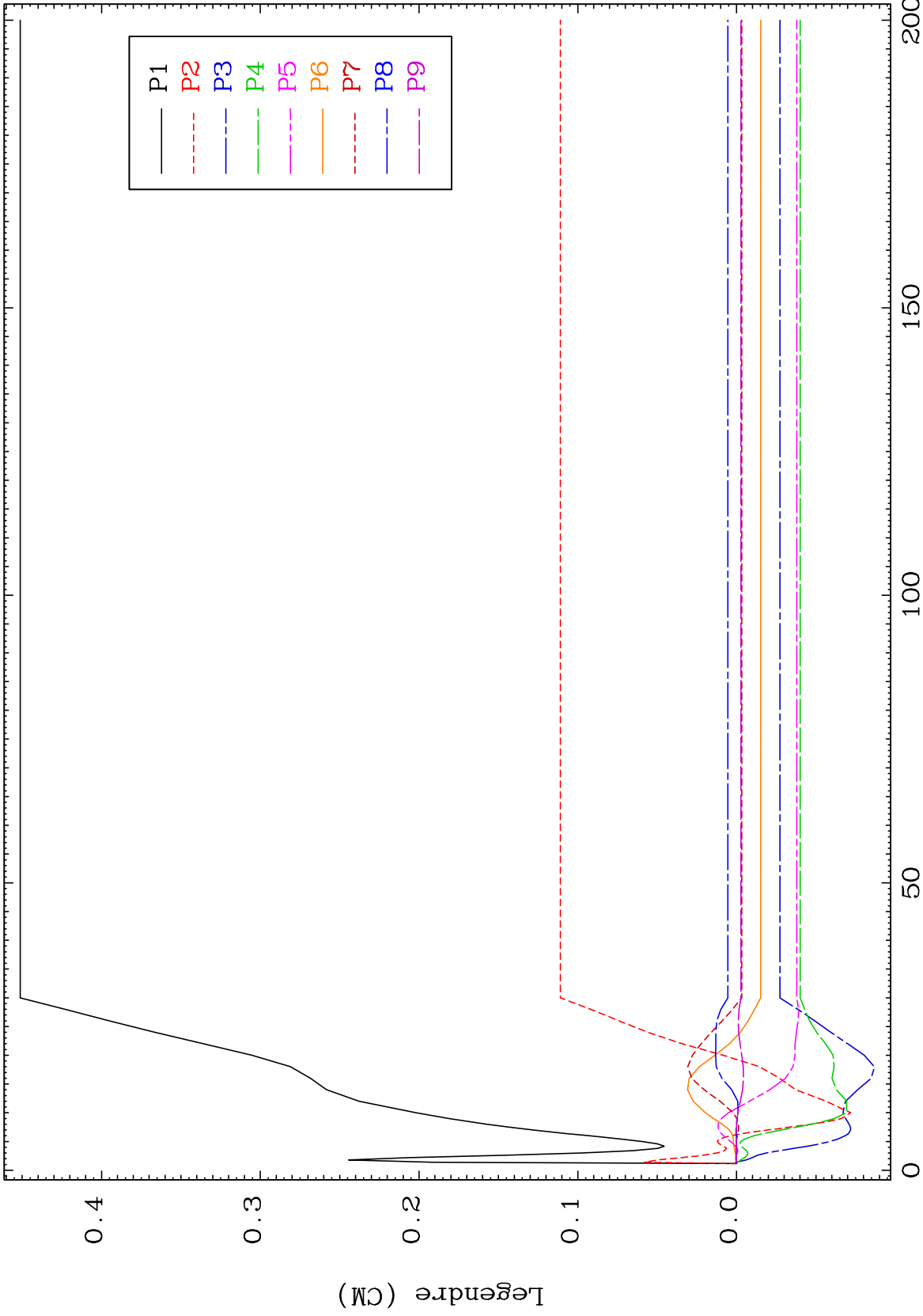
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41-Nb-95

MAT 4131

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

41-Nb-95

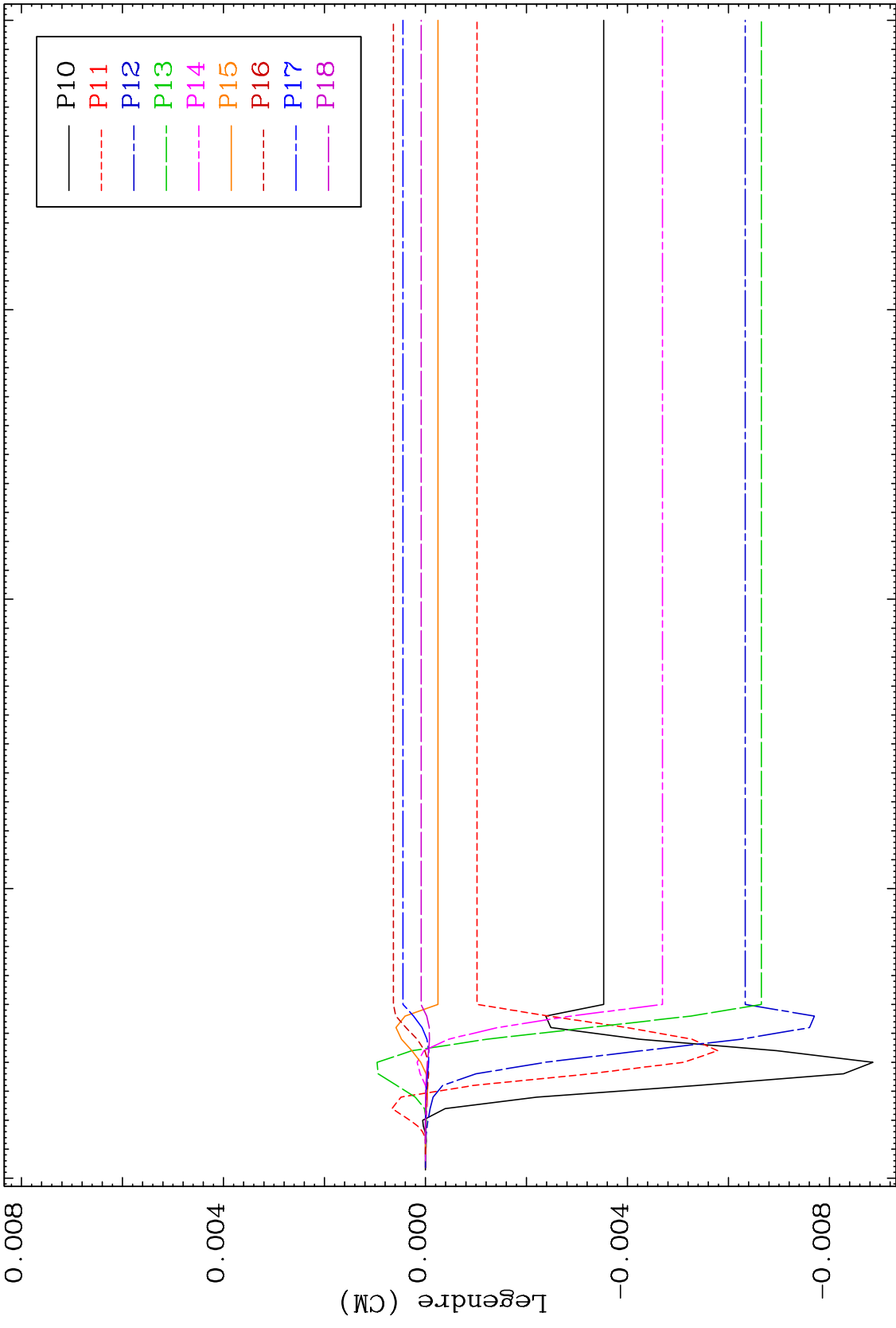


56

Incident Energy (MeV)

41-Nb-95

MAT 4131 MT= 61 (n,n') Level Legendre Coefficients 41-Nb-95

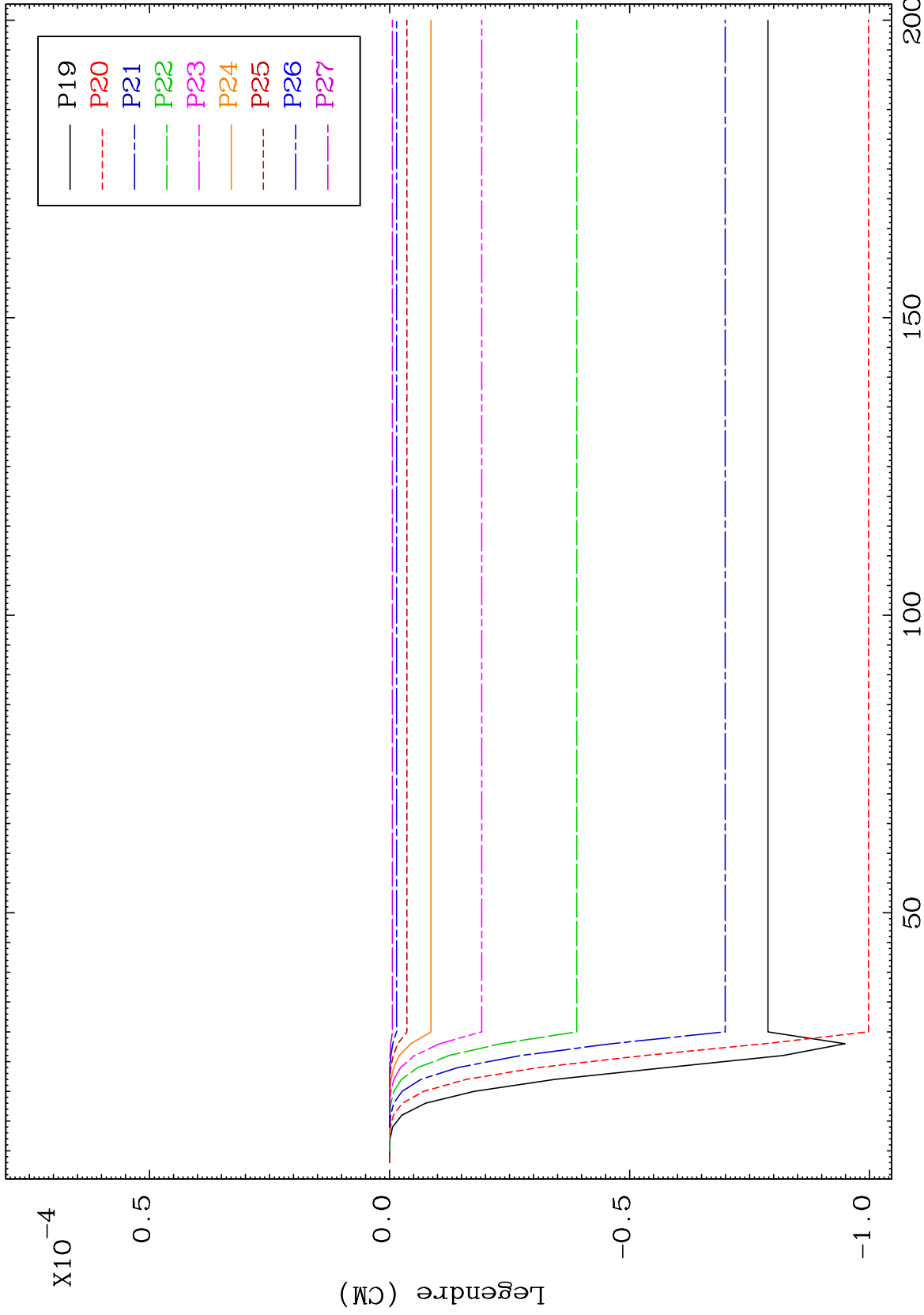


57 41-Nb-95

MAT 4131

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

41-Nb-95



58

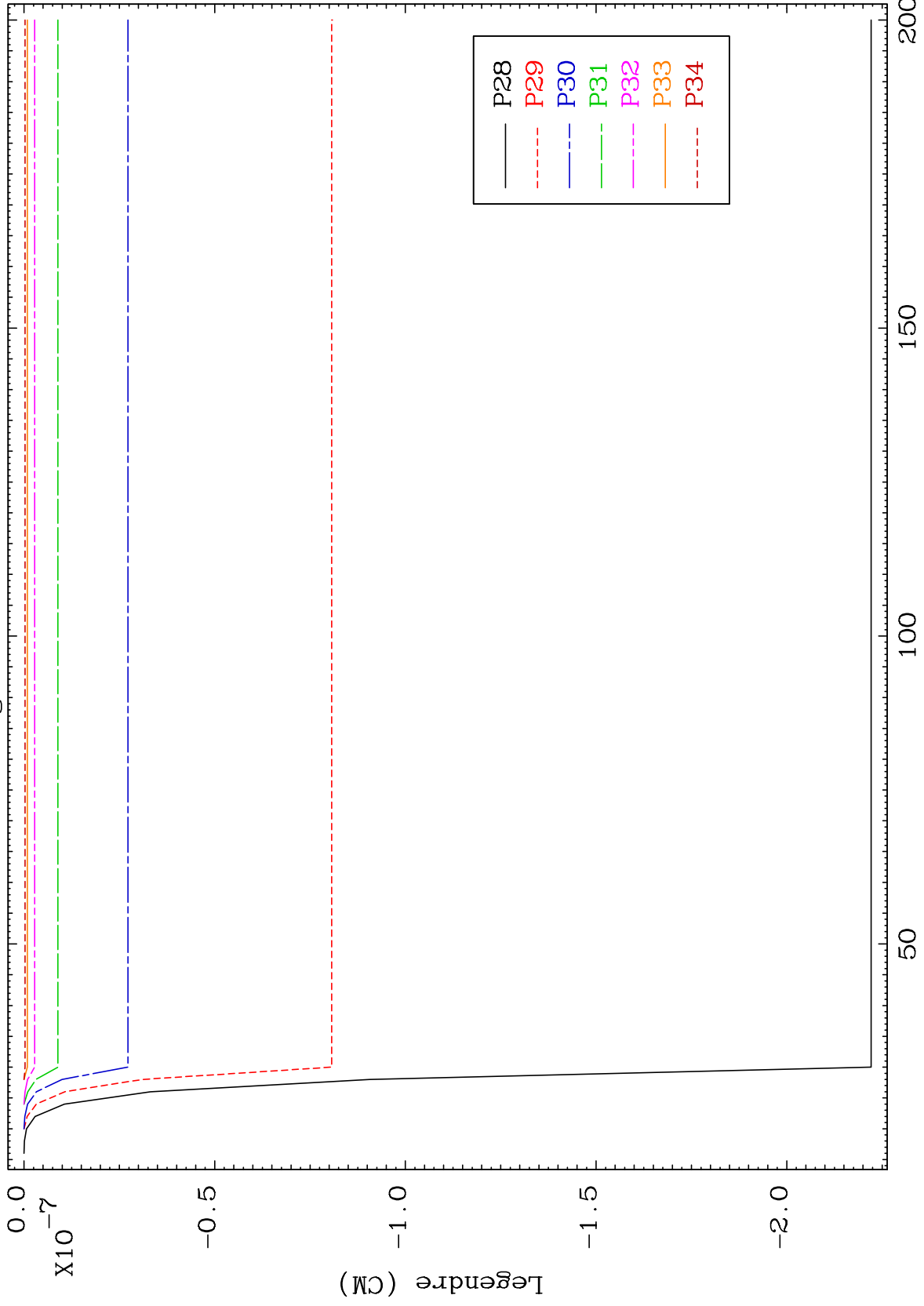
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



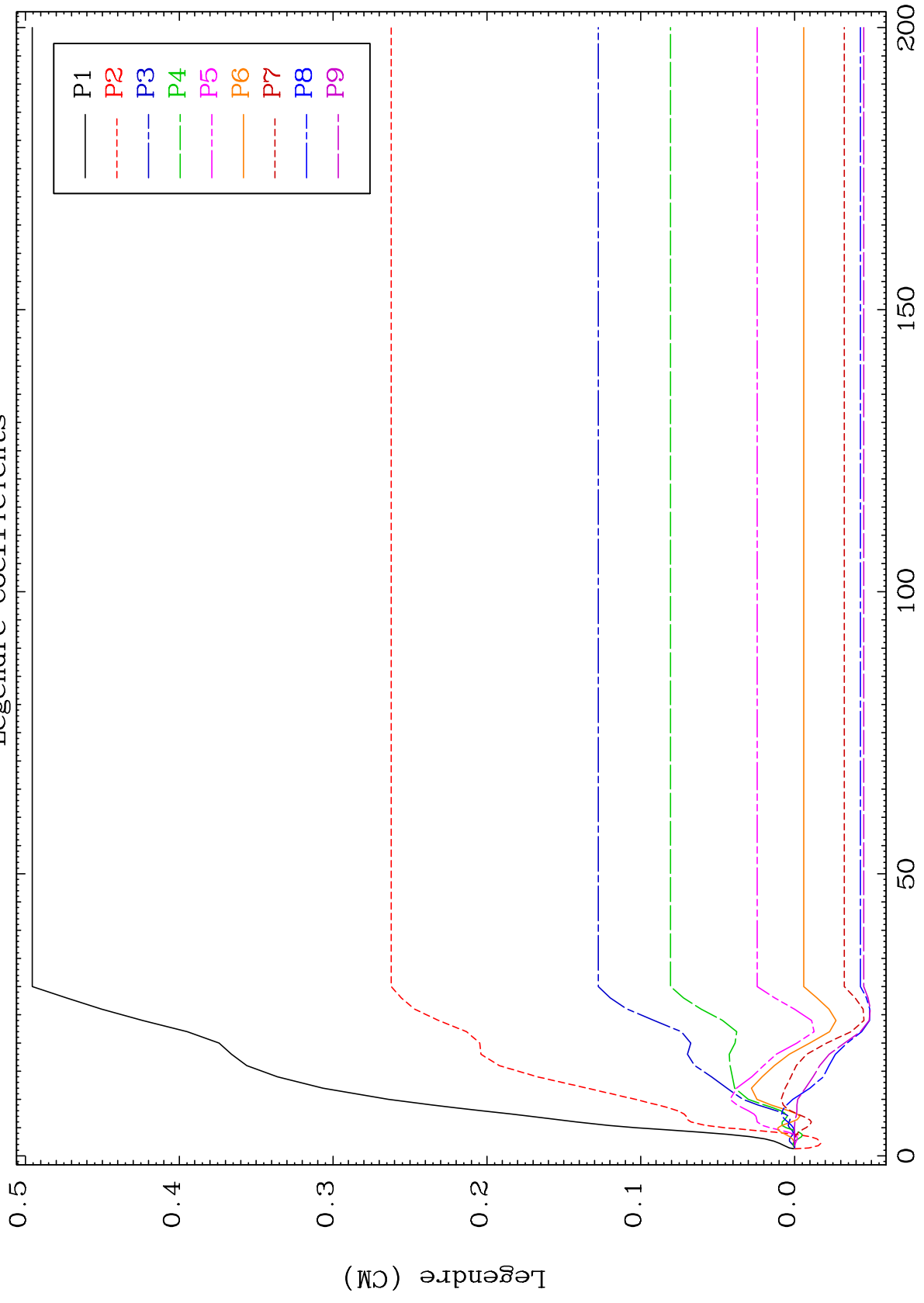
59

41-Nb-95

MAT 4131

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

41-Nb-95



0

50

100

150

200

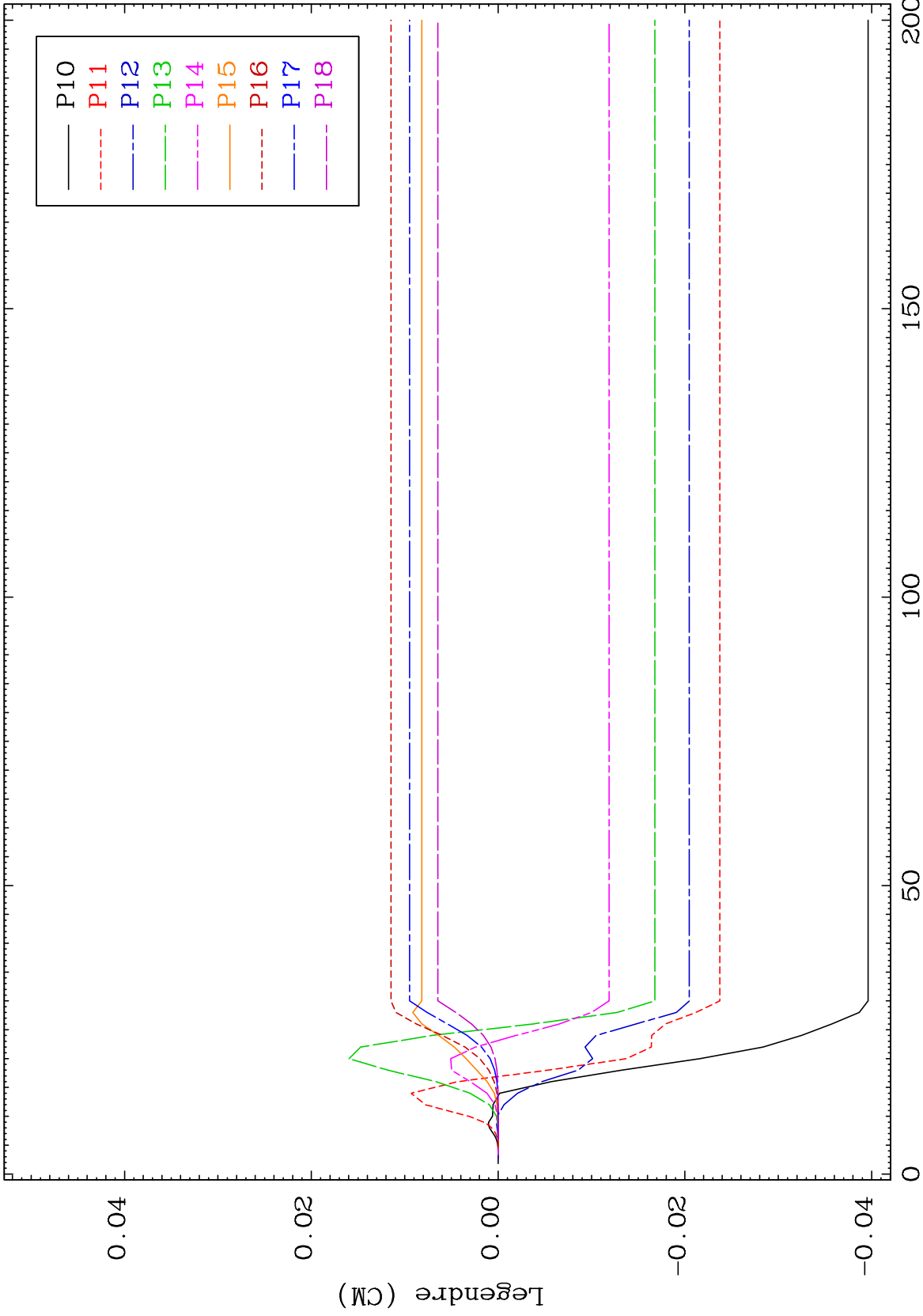
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



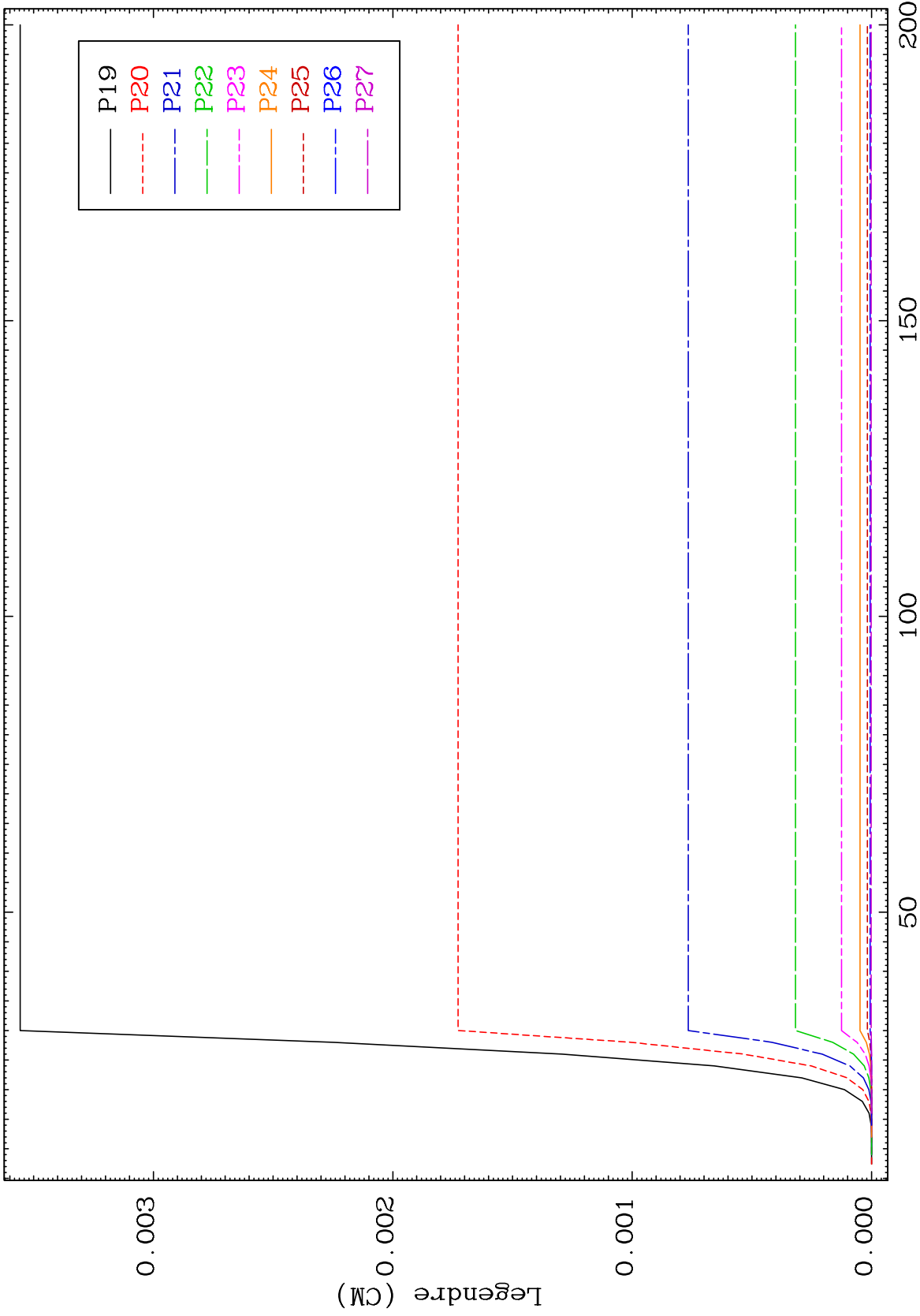
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41-Nb-95

MAT 4131

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

41-Nb-95



62

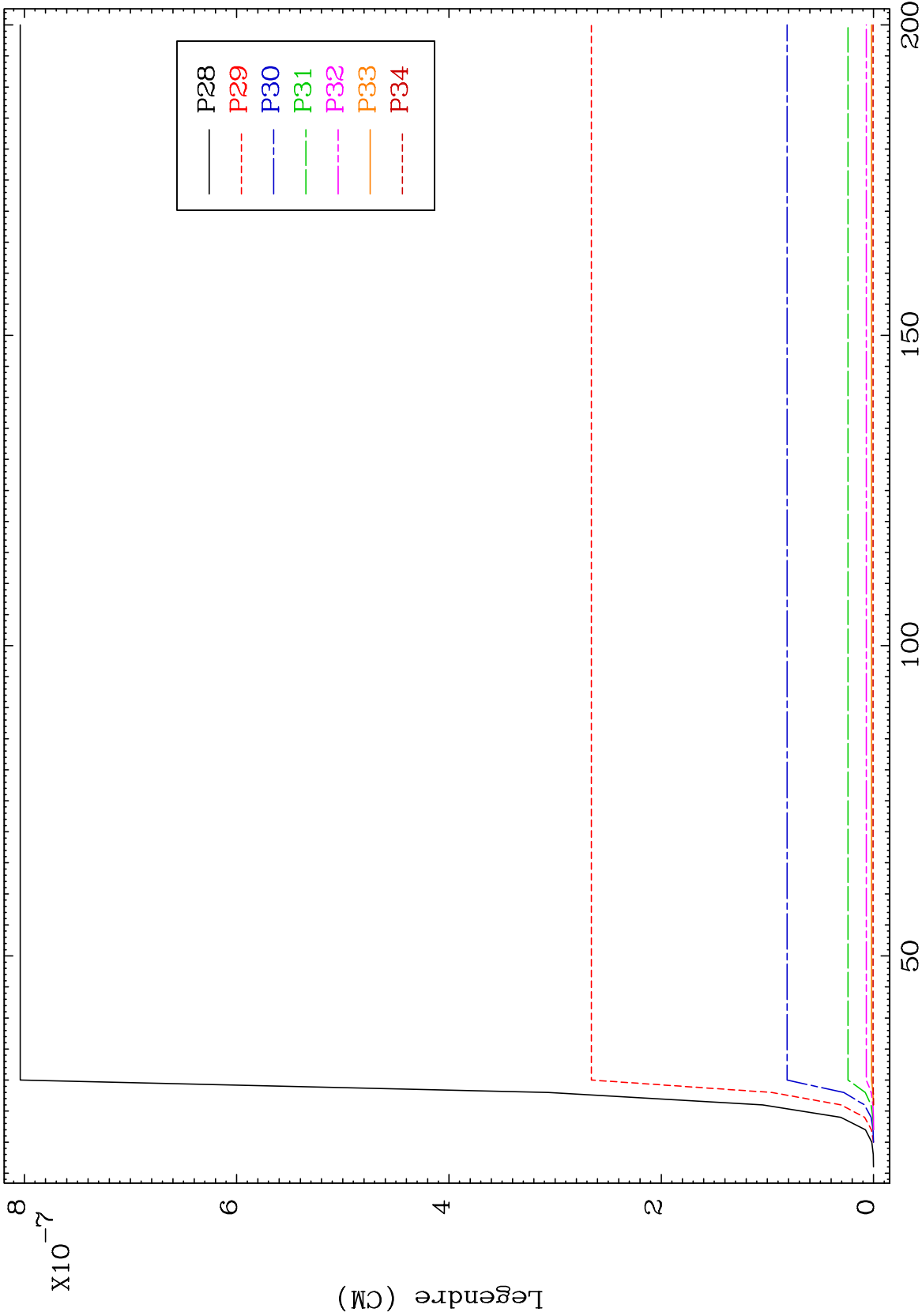
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

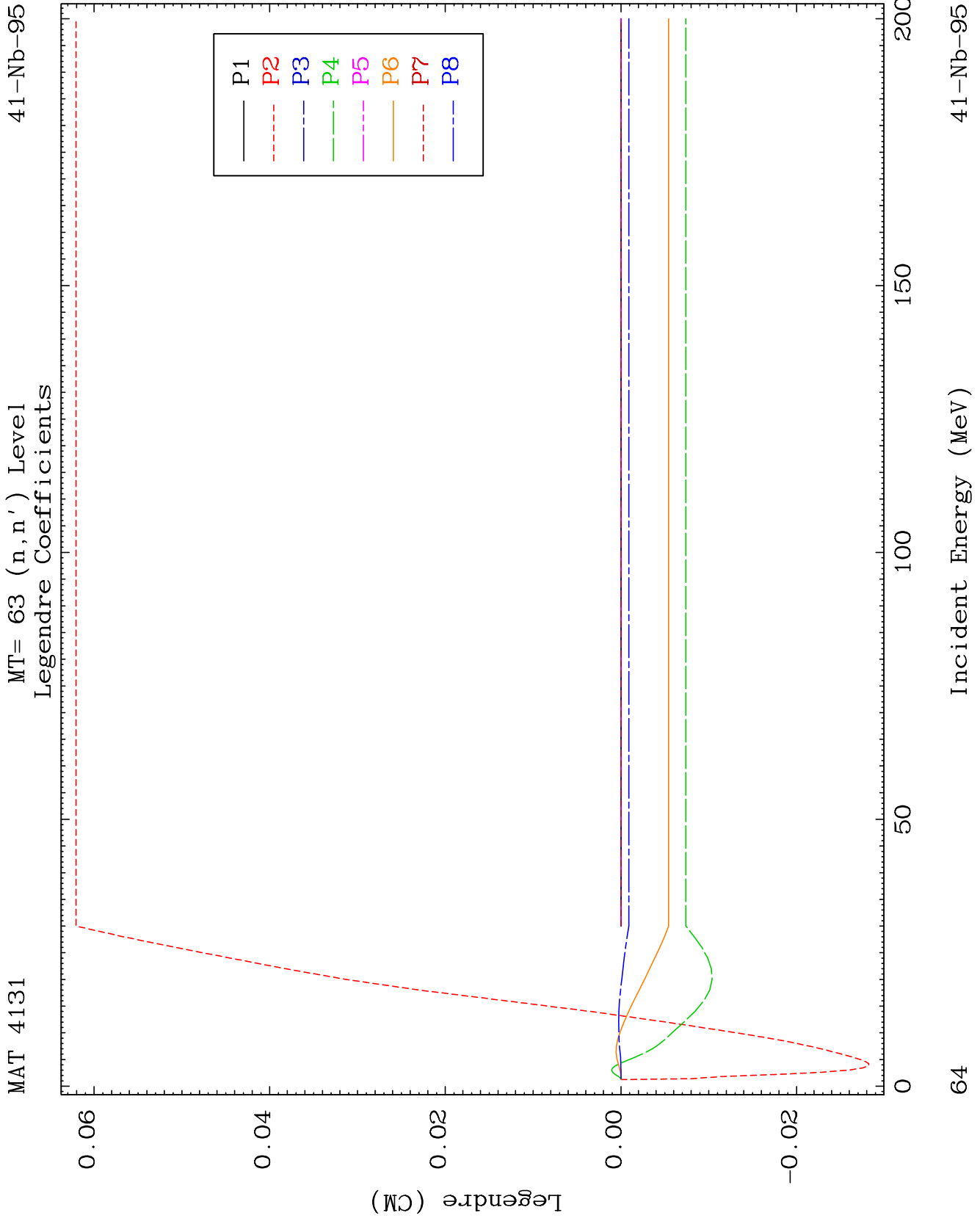
41-Nb-95



63

Incident Energy (MeV)

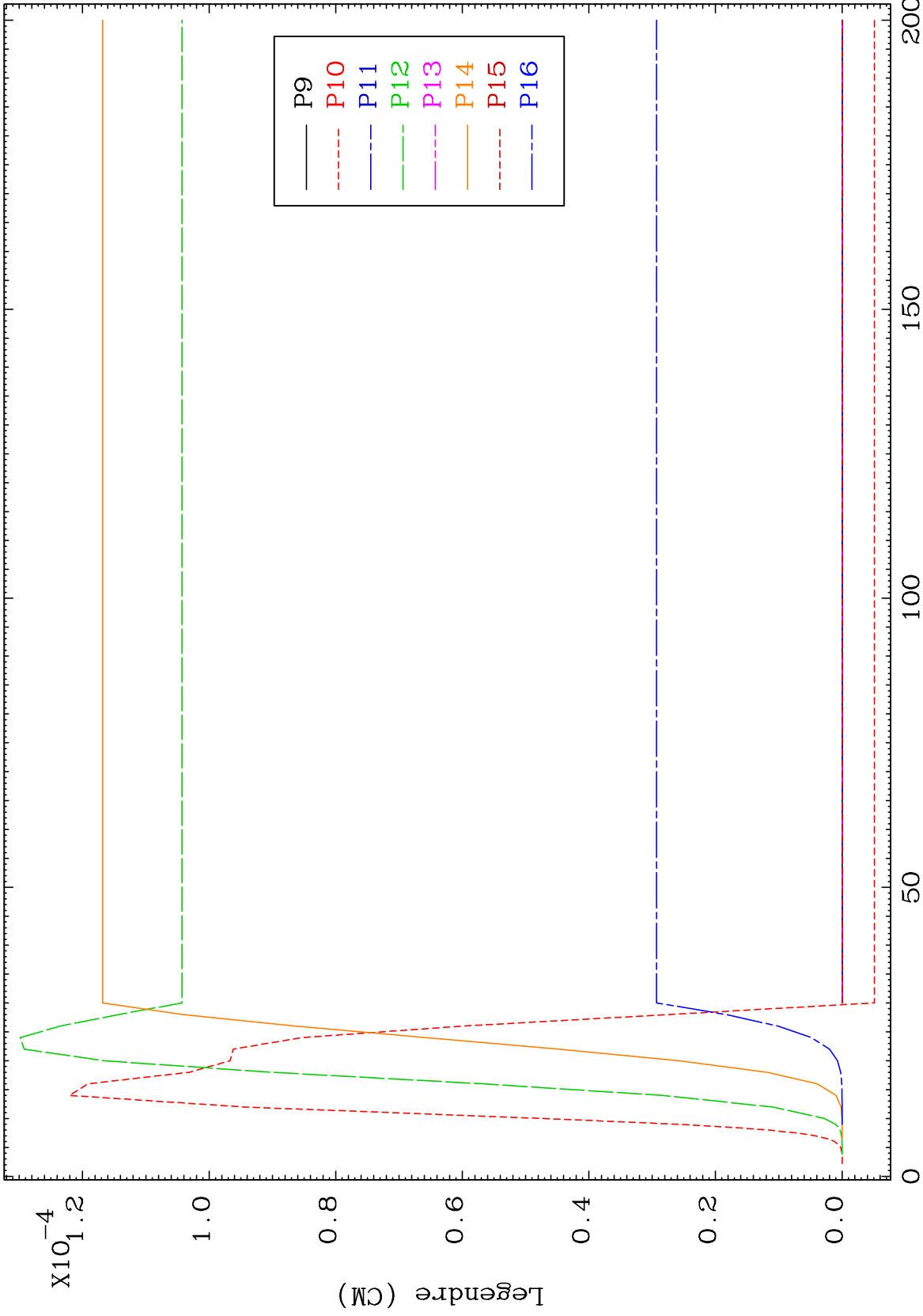
41-Nb-95



MAT 4131

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

41-Nb-95



65

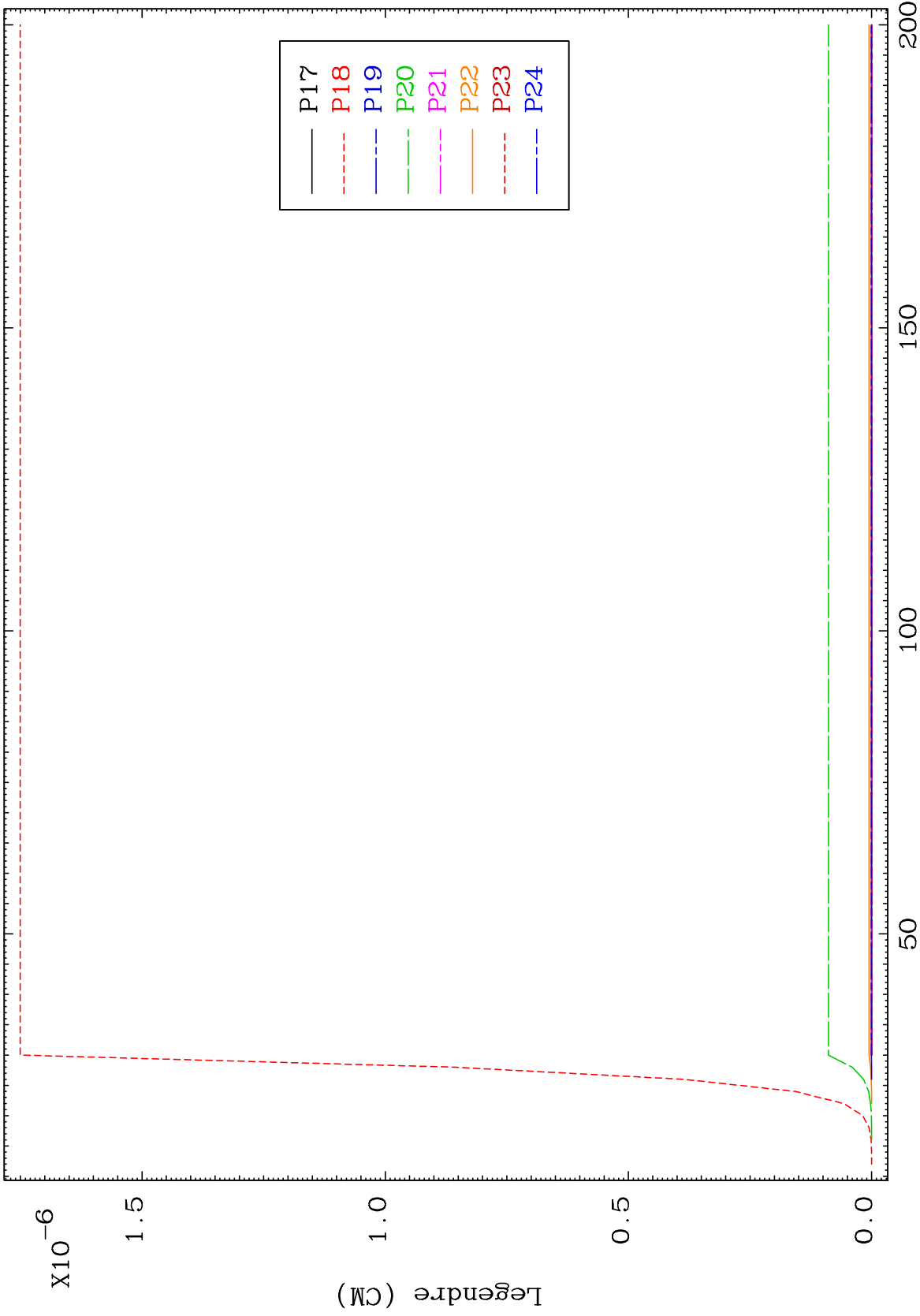
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

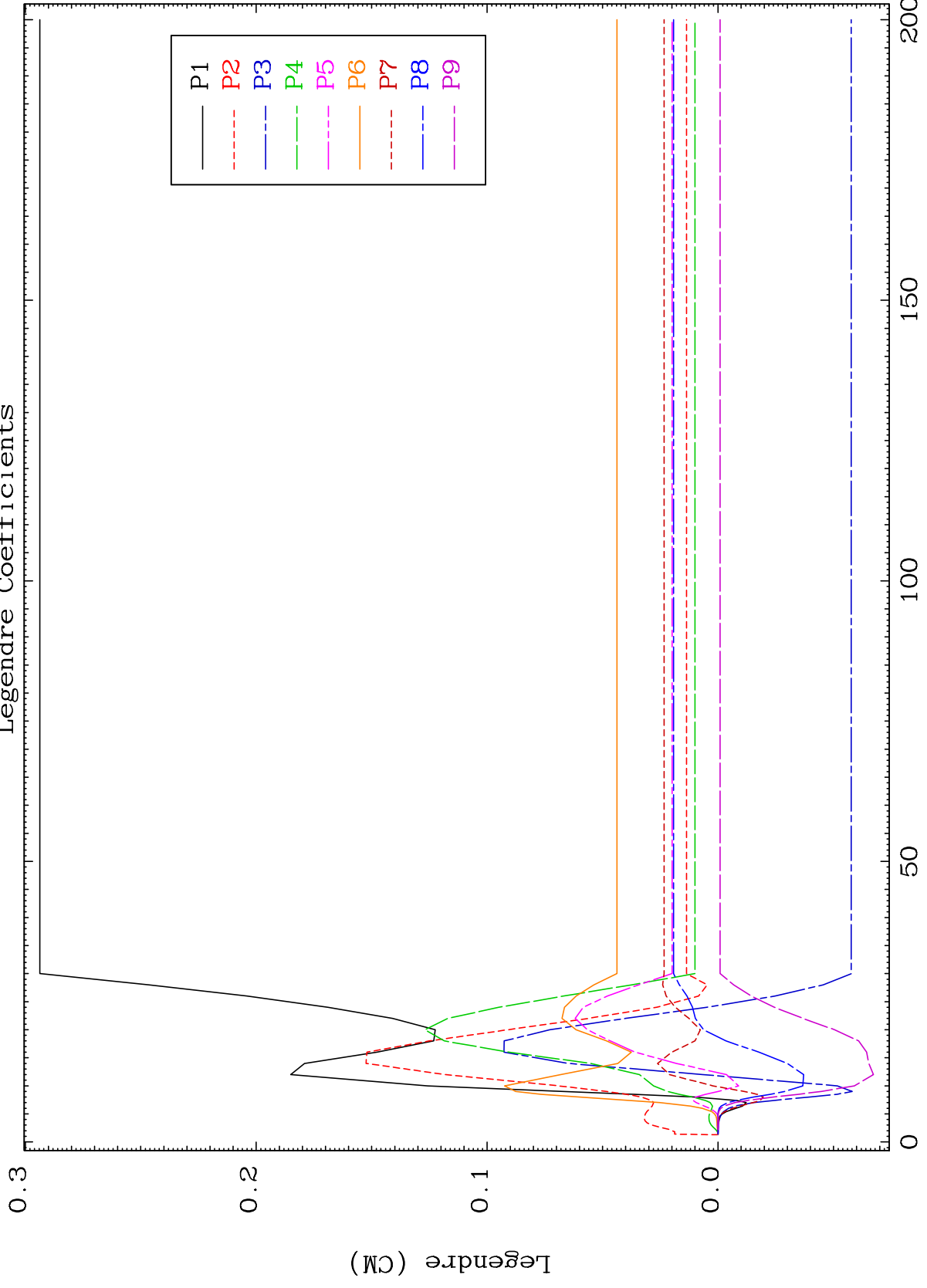
41-Nb-95



66

41-Nb-95

MAT 4131 MT= 64 (n,n') Level Legendre Coefficients 41-Nb-95

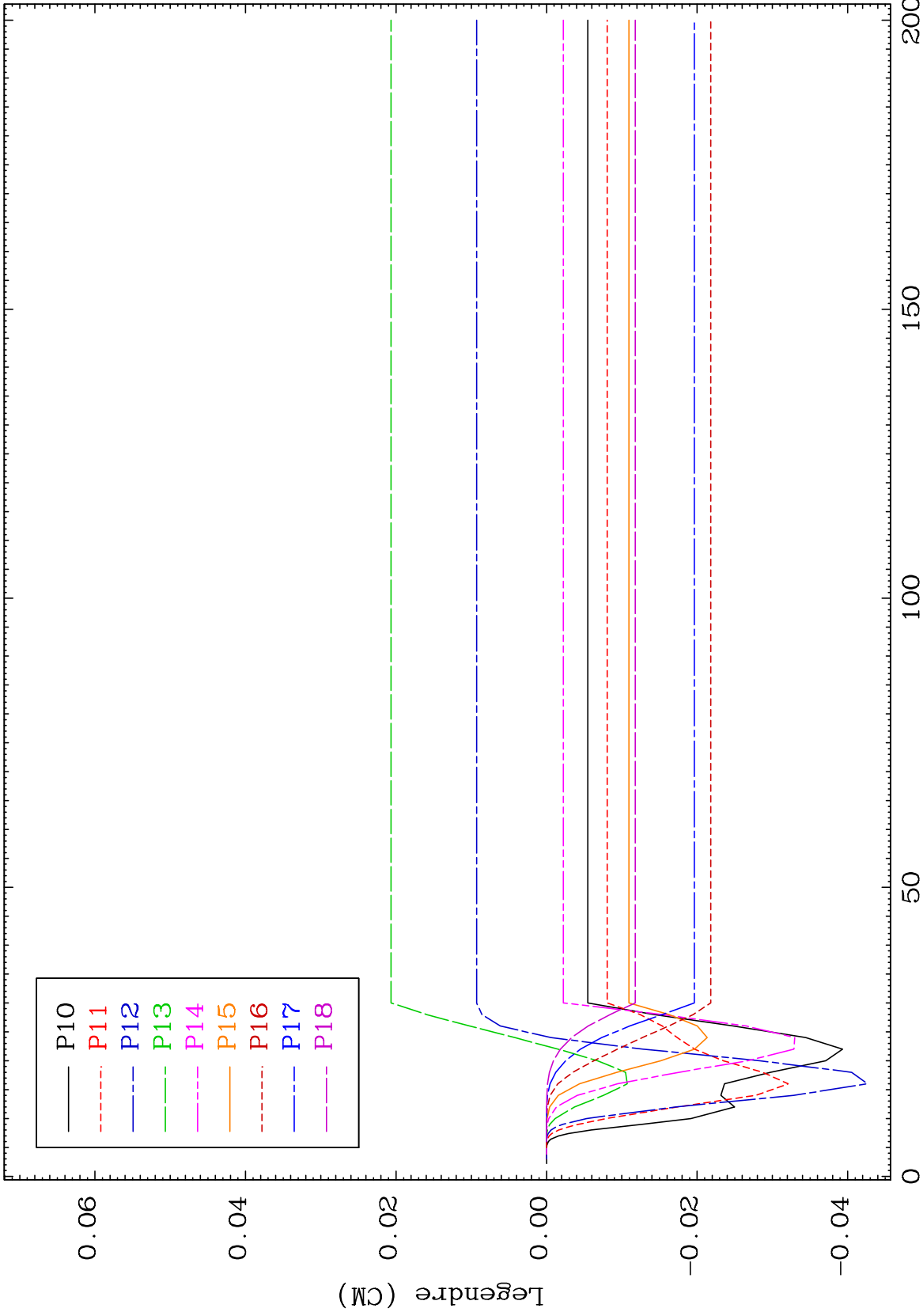


67 41-Nb-95

MAT 4131

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

41-Nb-95

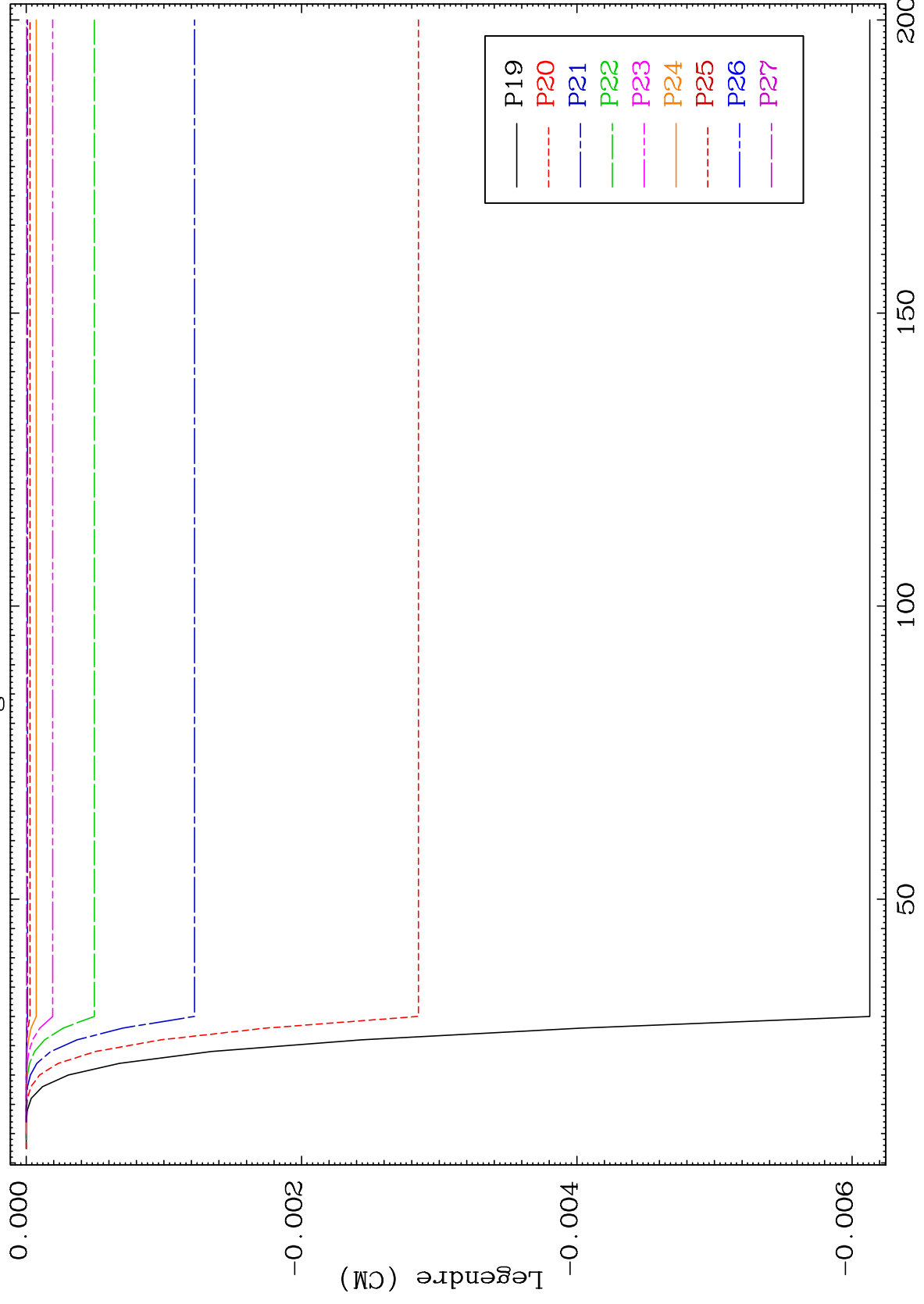


68

Incident Energy (MeV)

41-Nb-95

MAT 4131 MT= 64 (n,n') Level Legendre Coefficients 41-Nb-95

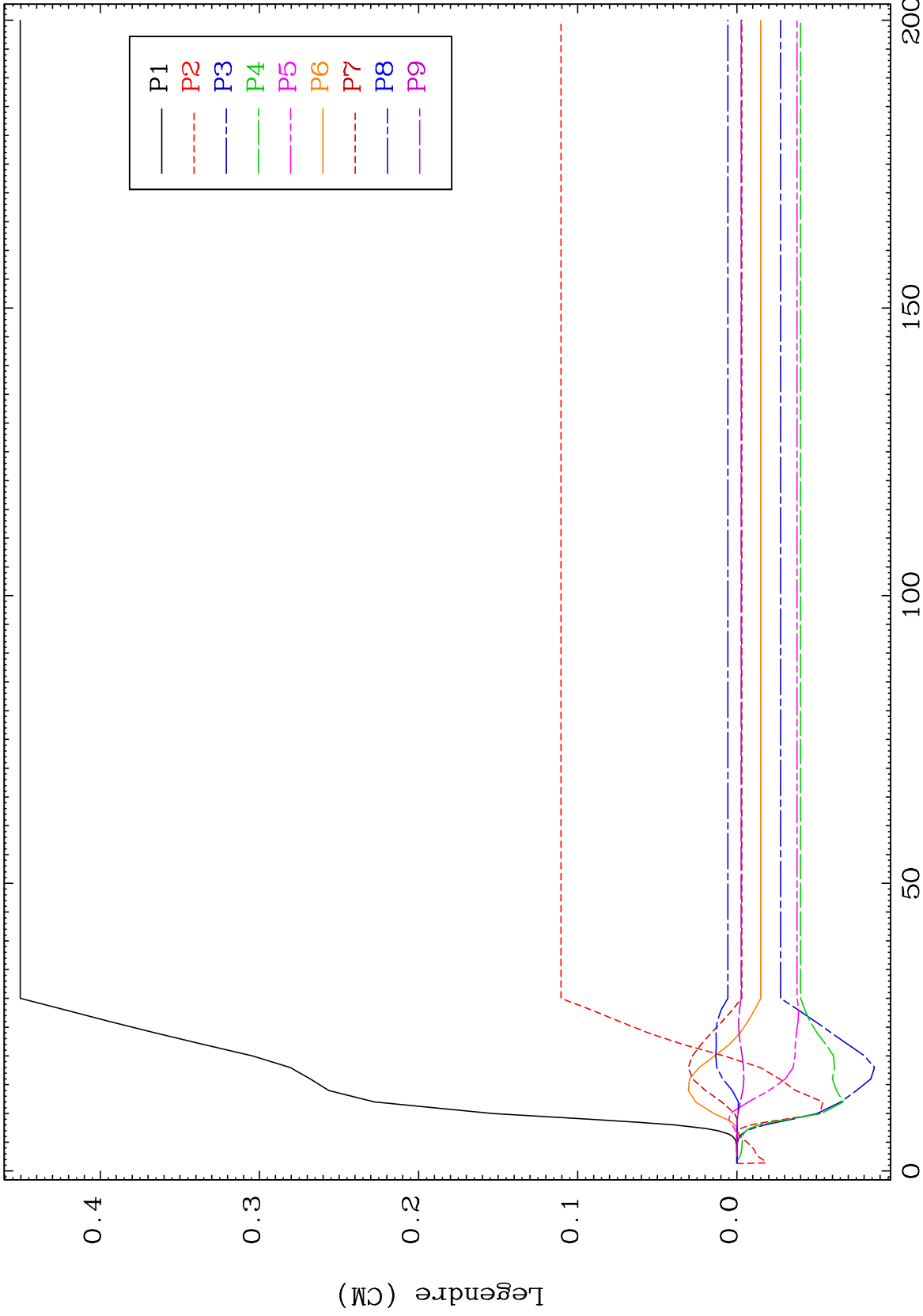


69 41-Nb-95

MAT 4131

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

41-Nb-95



71

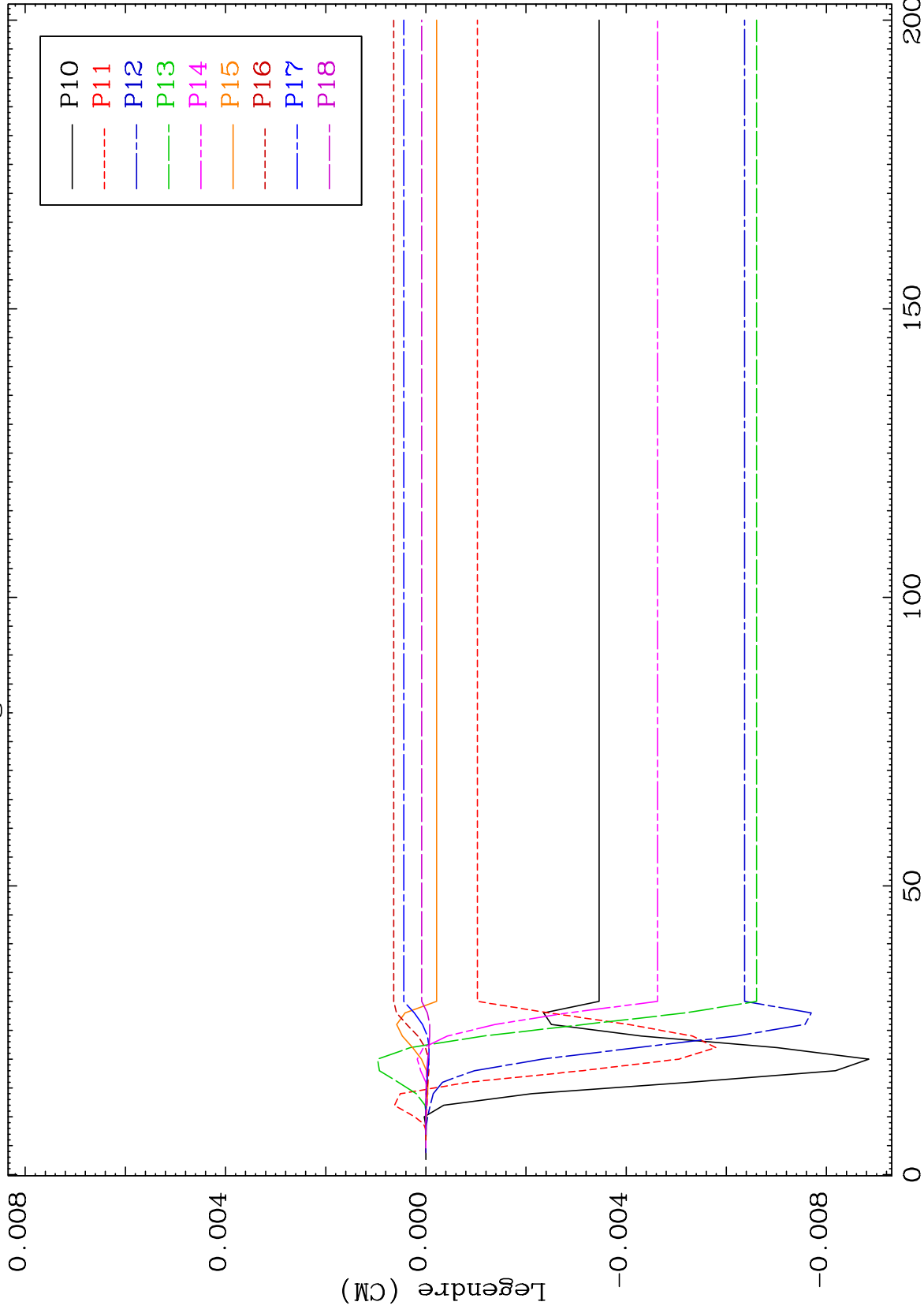
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



72

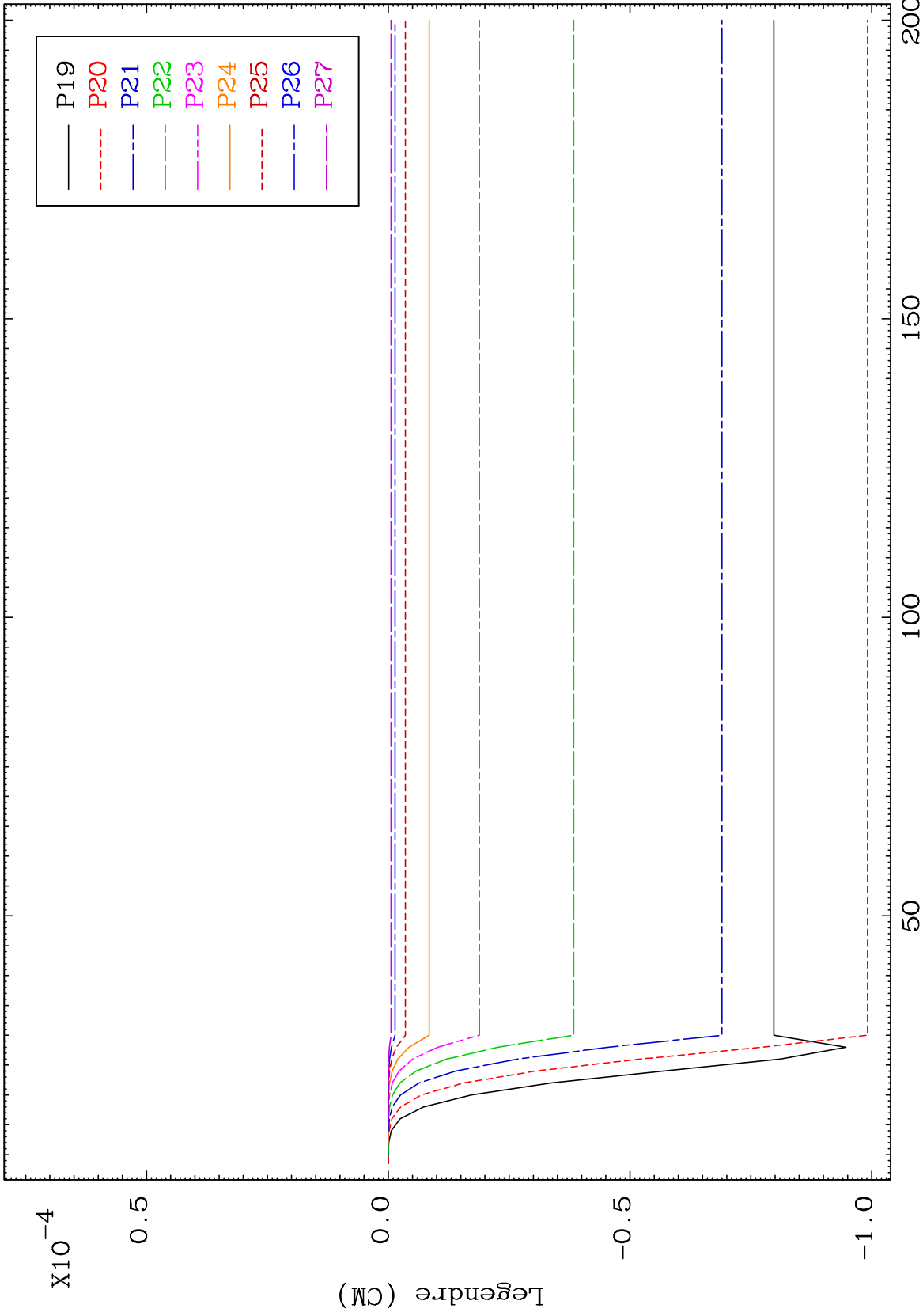
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



73

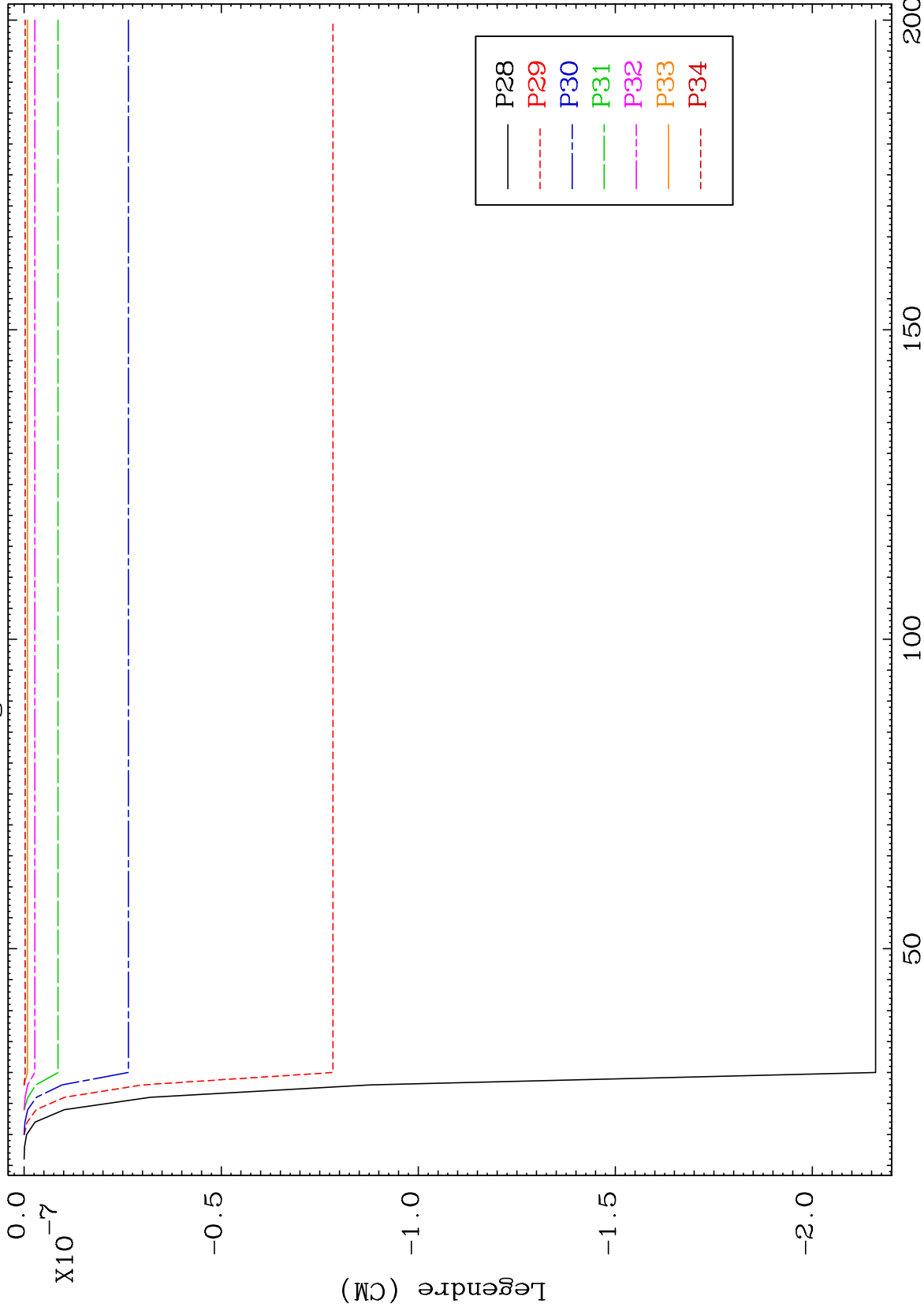
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

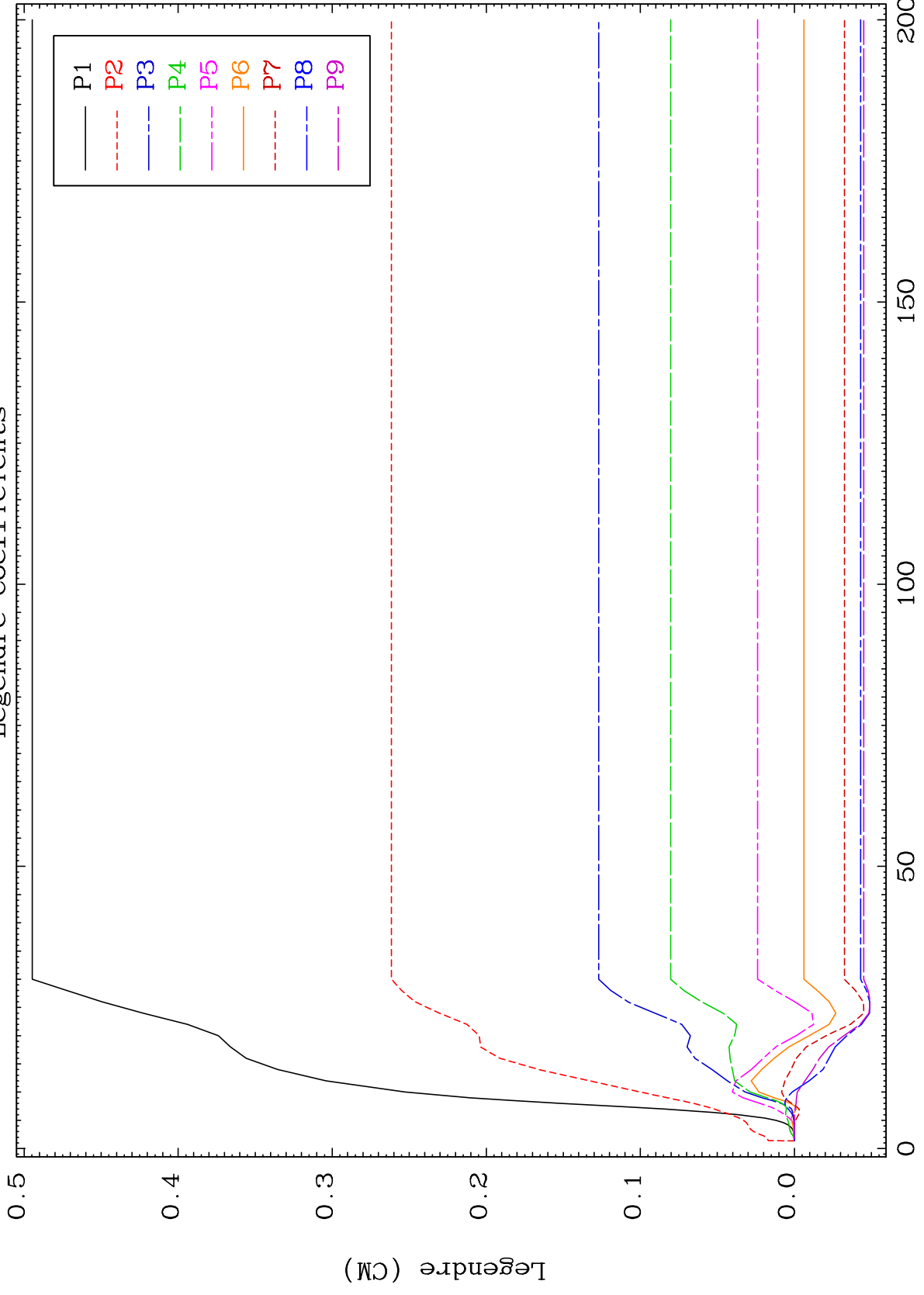
41-Nb-95



74

41-Nb-95

MAT 4131 MT= 66 (n,n') Level Legendre Coefficients 41-Nb-95

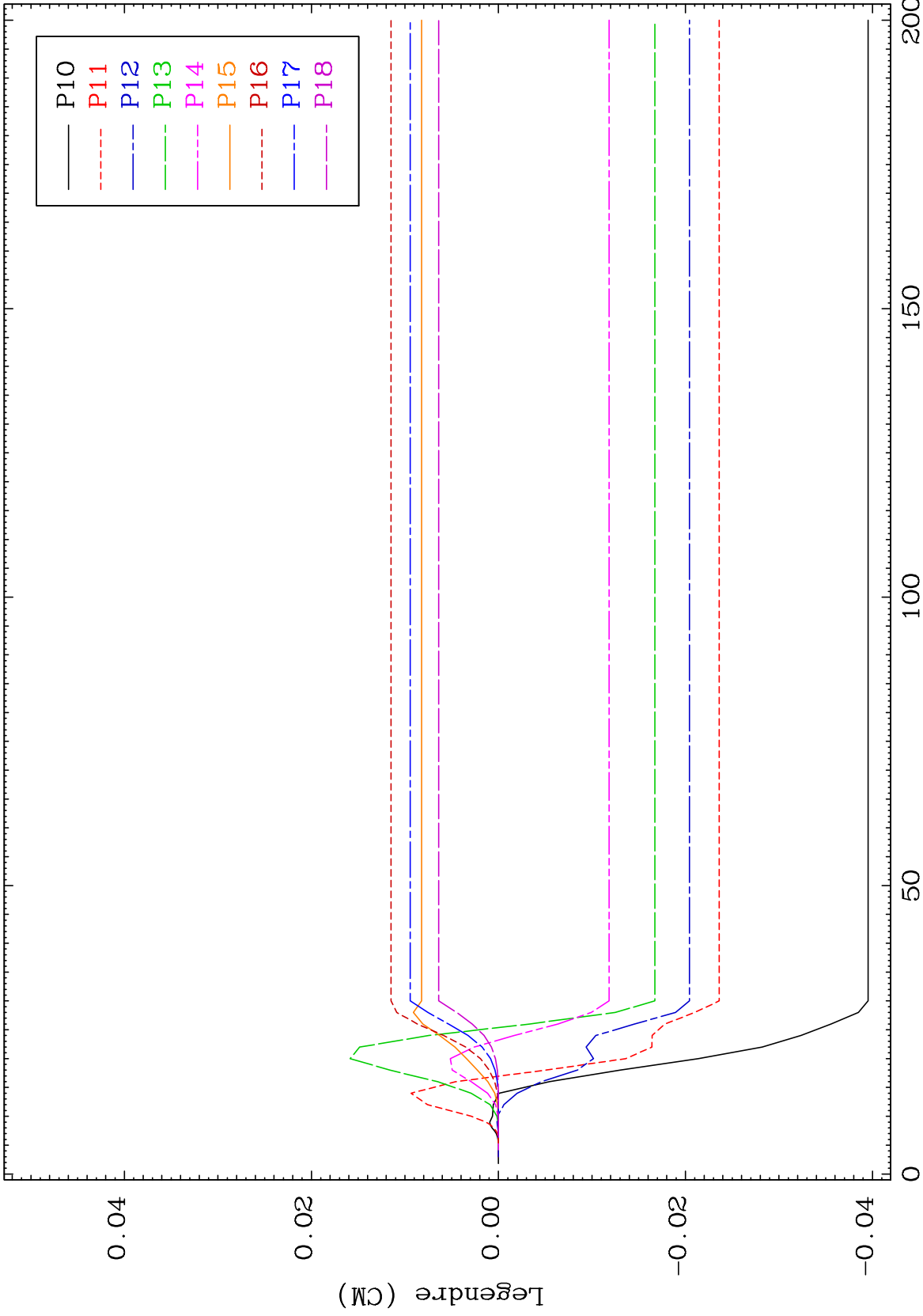


75 Incident Energy (MeV) 41-Nb-95

MAT 4131

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

41-Nb-95



76

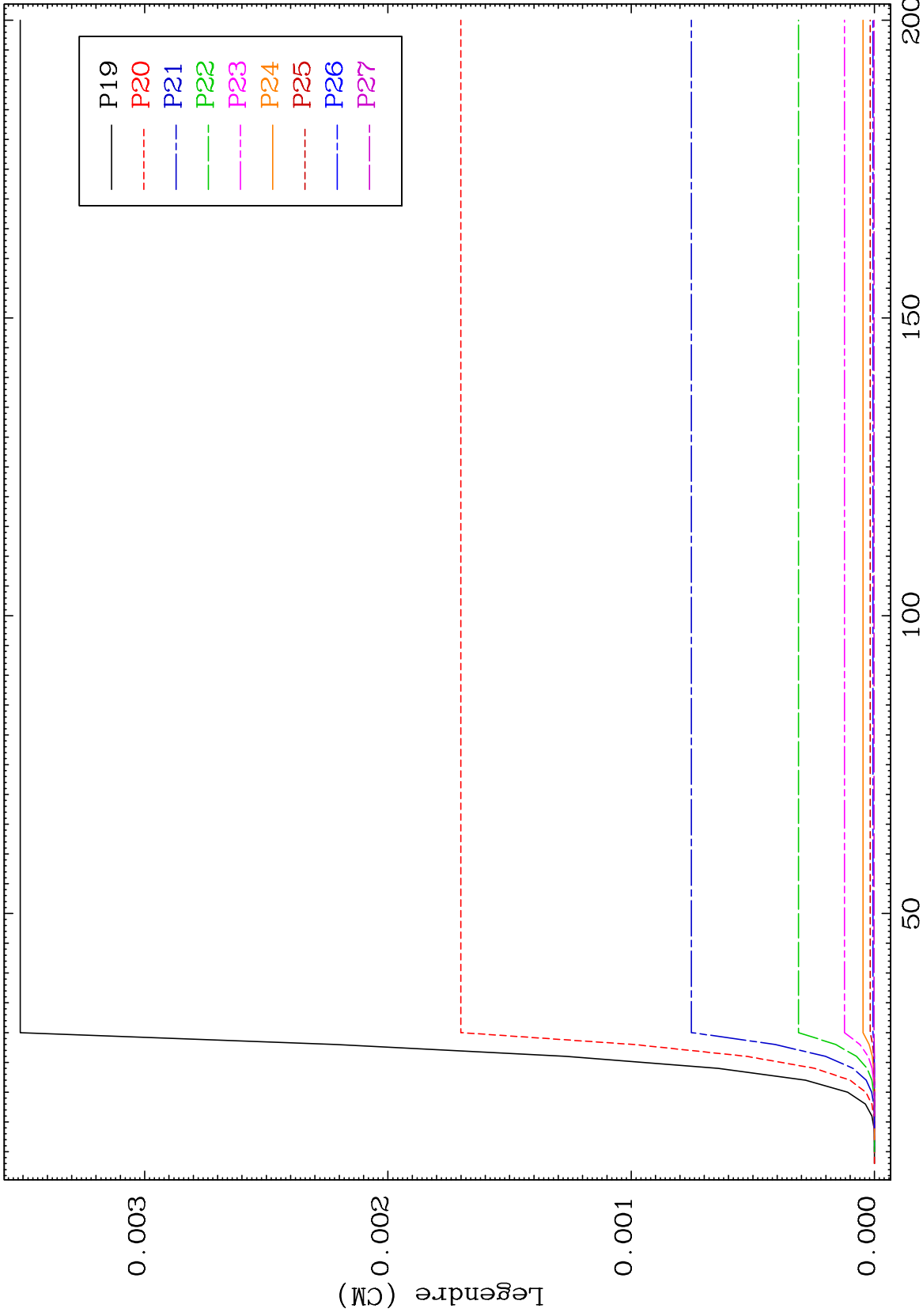
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



77

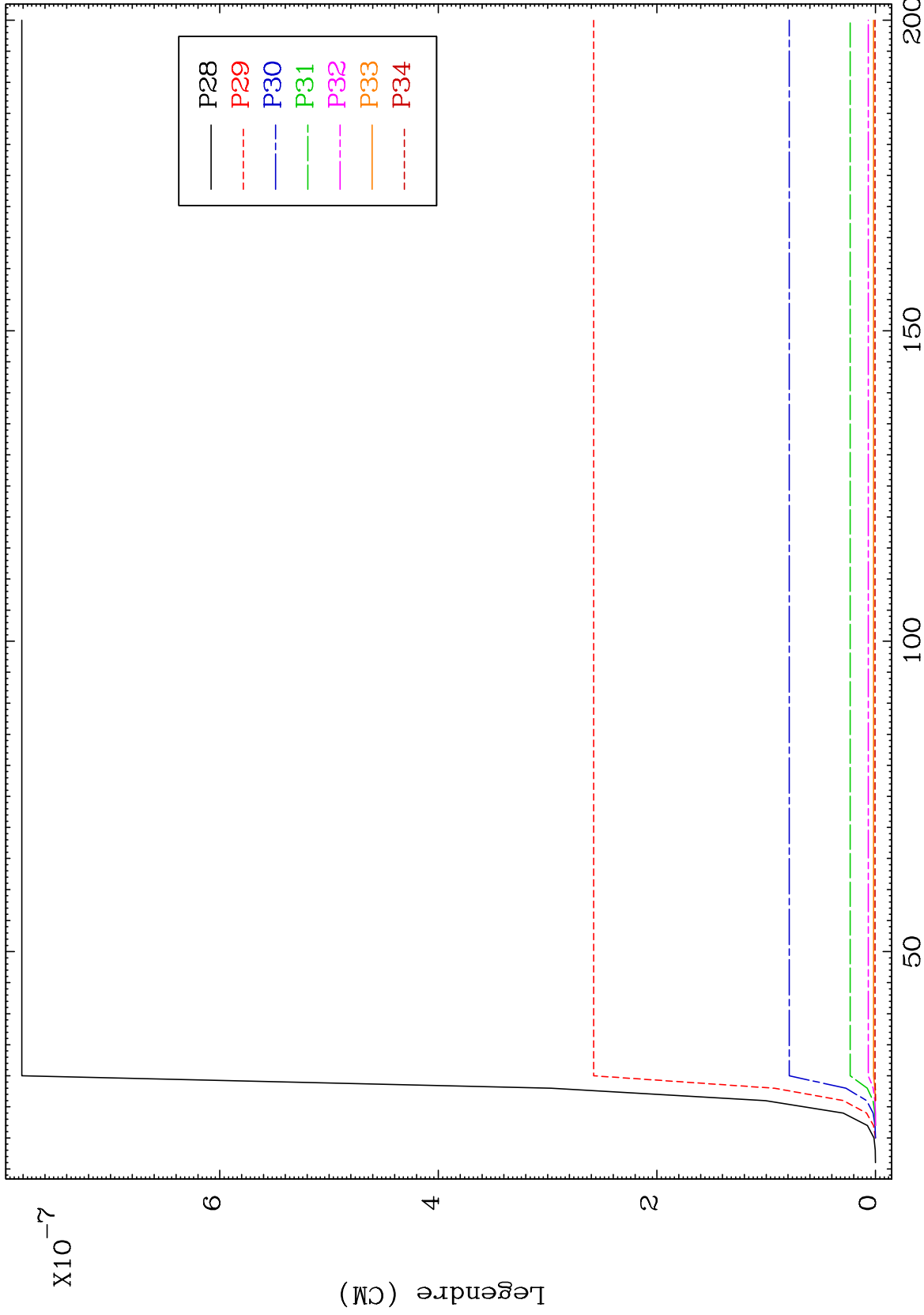
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95

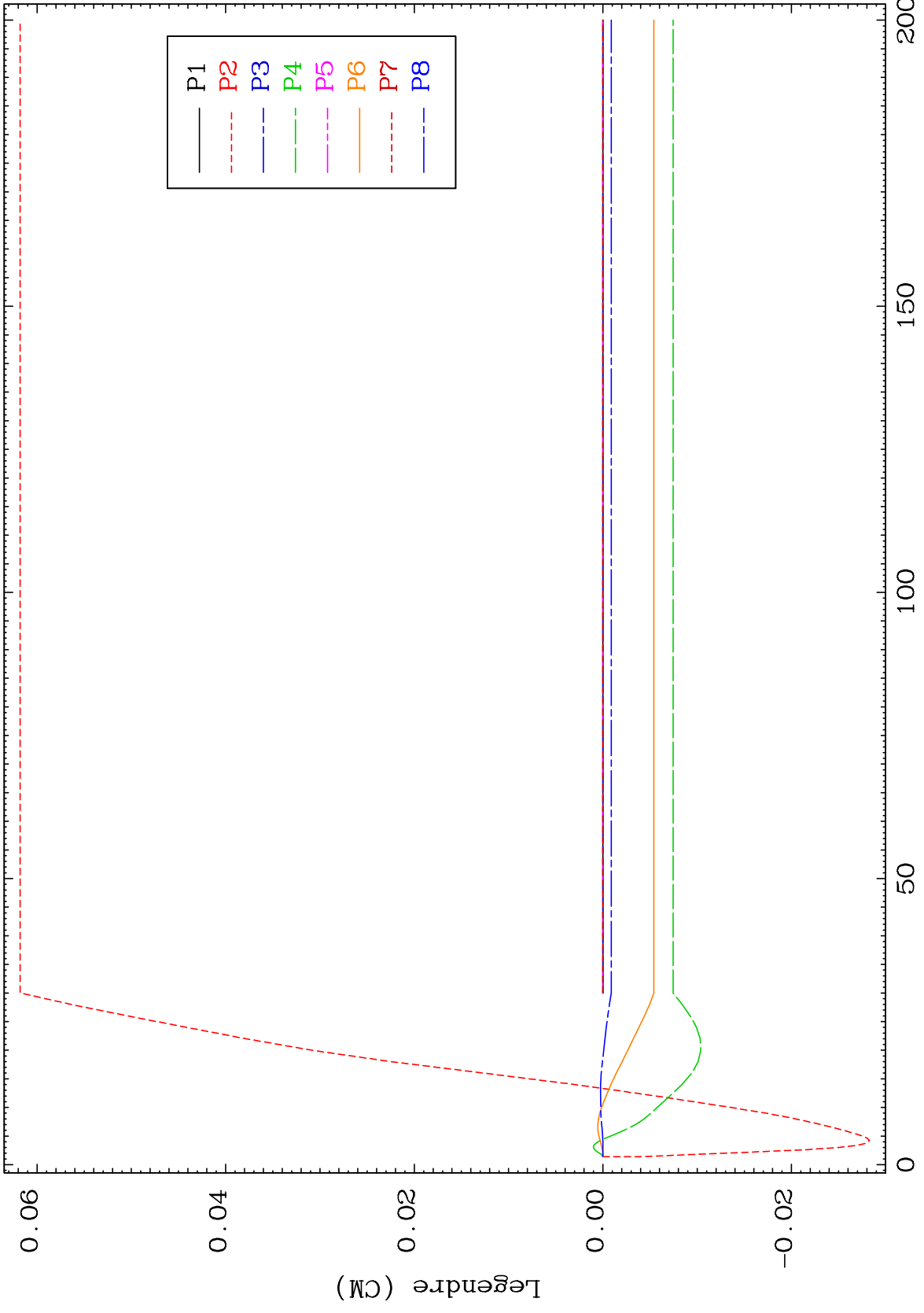


78

Incident Energy (MeV)

41-Nb-95

MAT 4131 MT= 67 (n,n') Level Legendre Coefficients 41-Nb-95

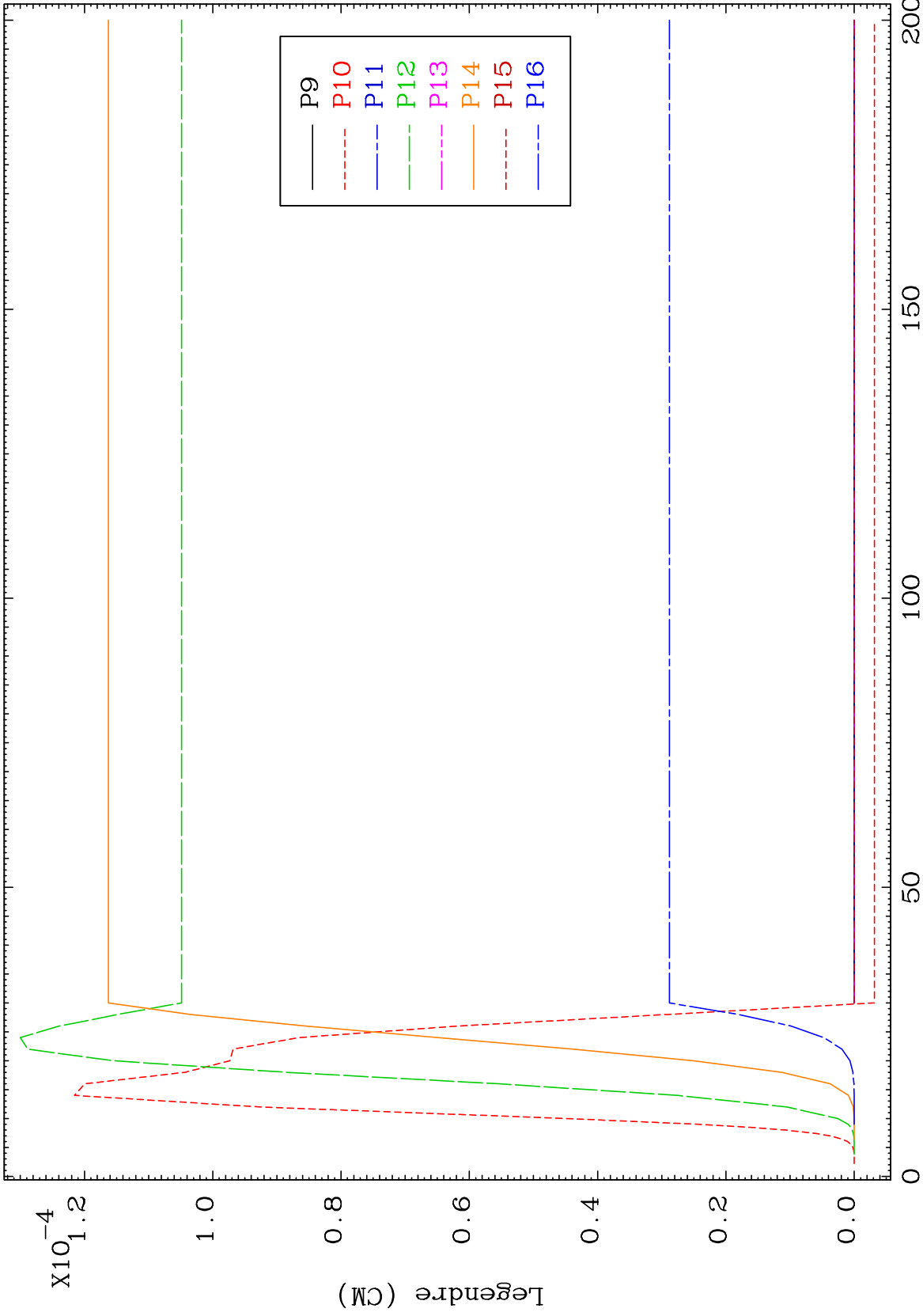


79 41-Nb-95

MAT 4131

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

41-Nb-95



80

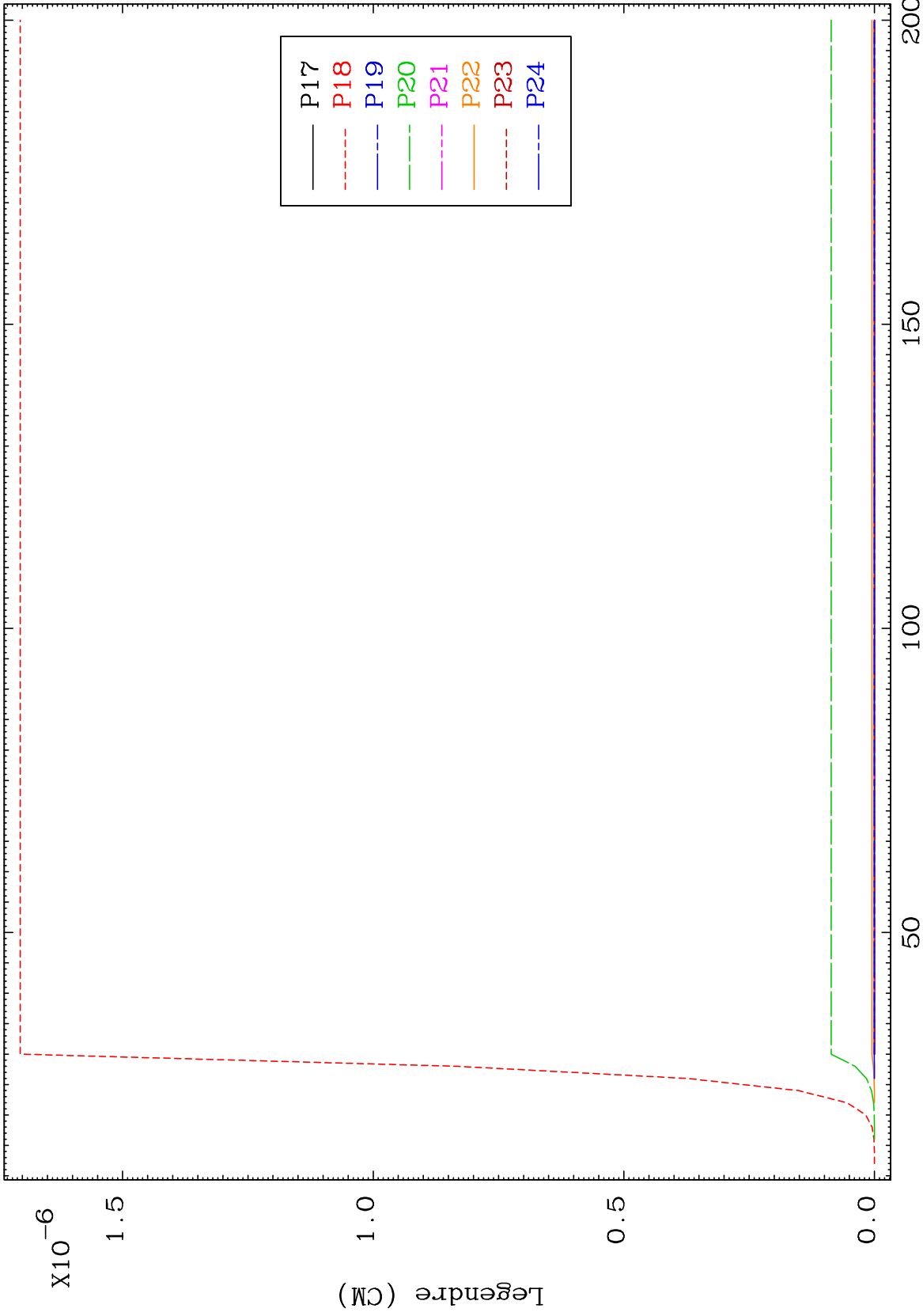
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95

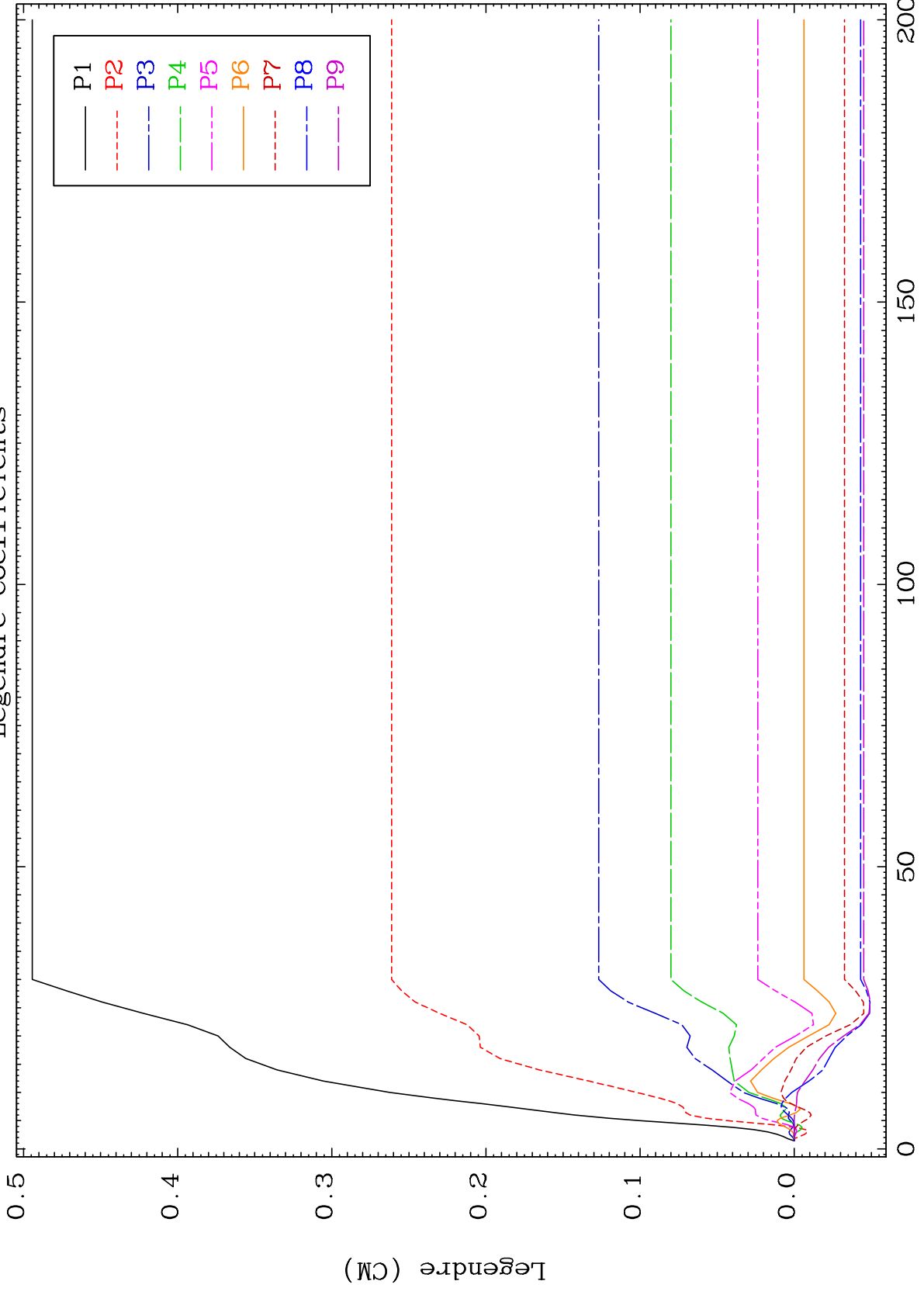


81

Incident Energy (MeV)

41-Nb-95

MAT 4131 MT= 68 (n,n') Level Legendre Coefficients 41-Nb-95

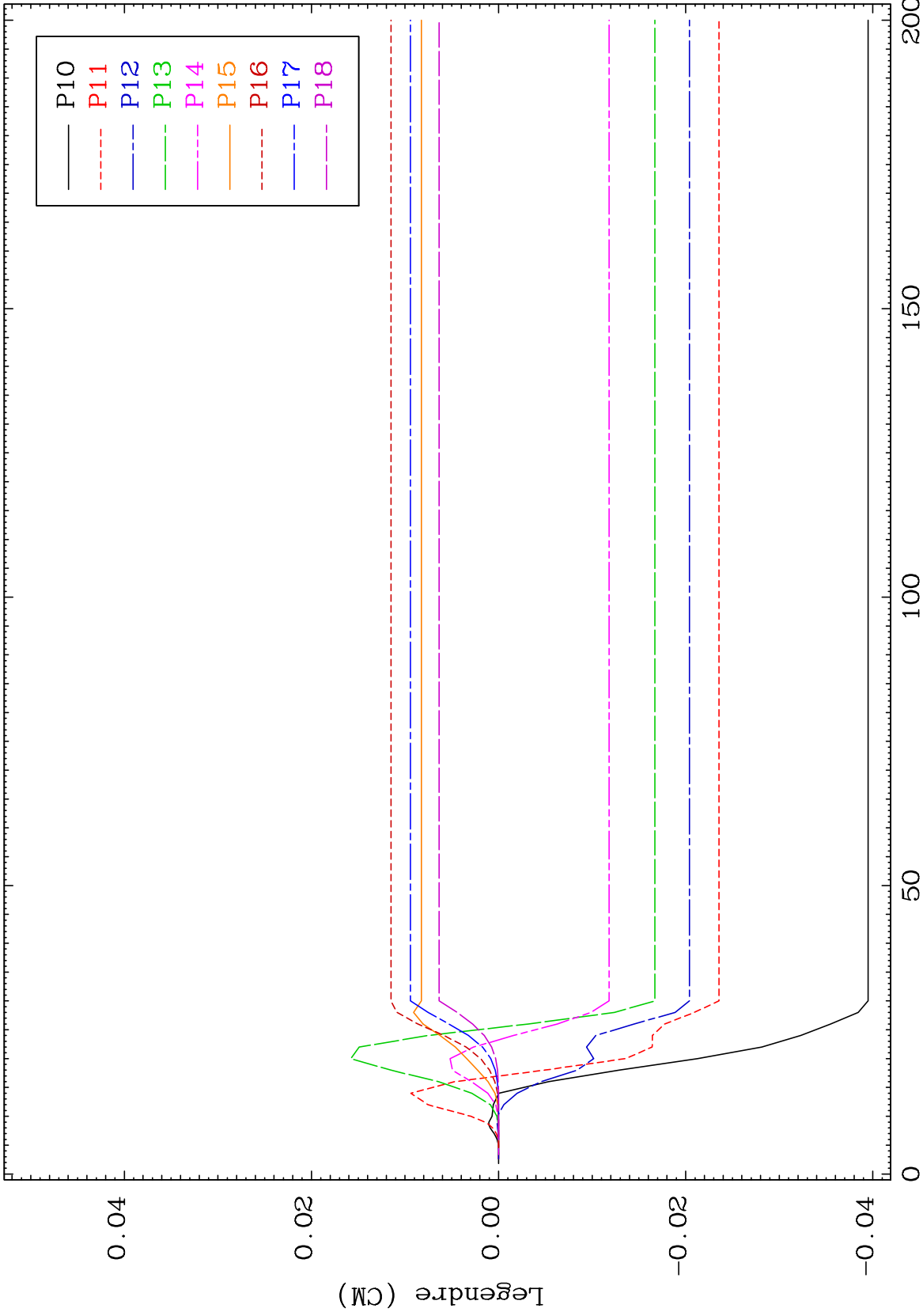


82 41-Nb-95

MAT 4131

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

41-Nb-95



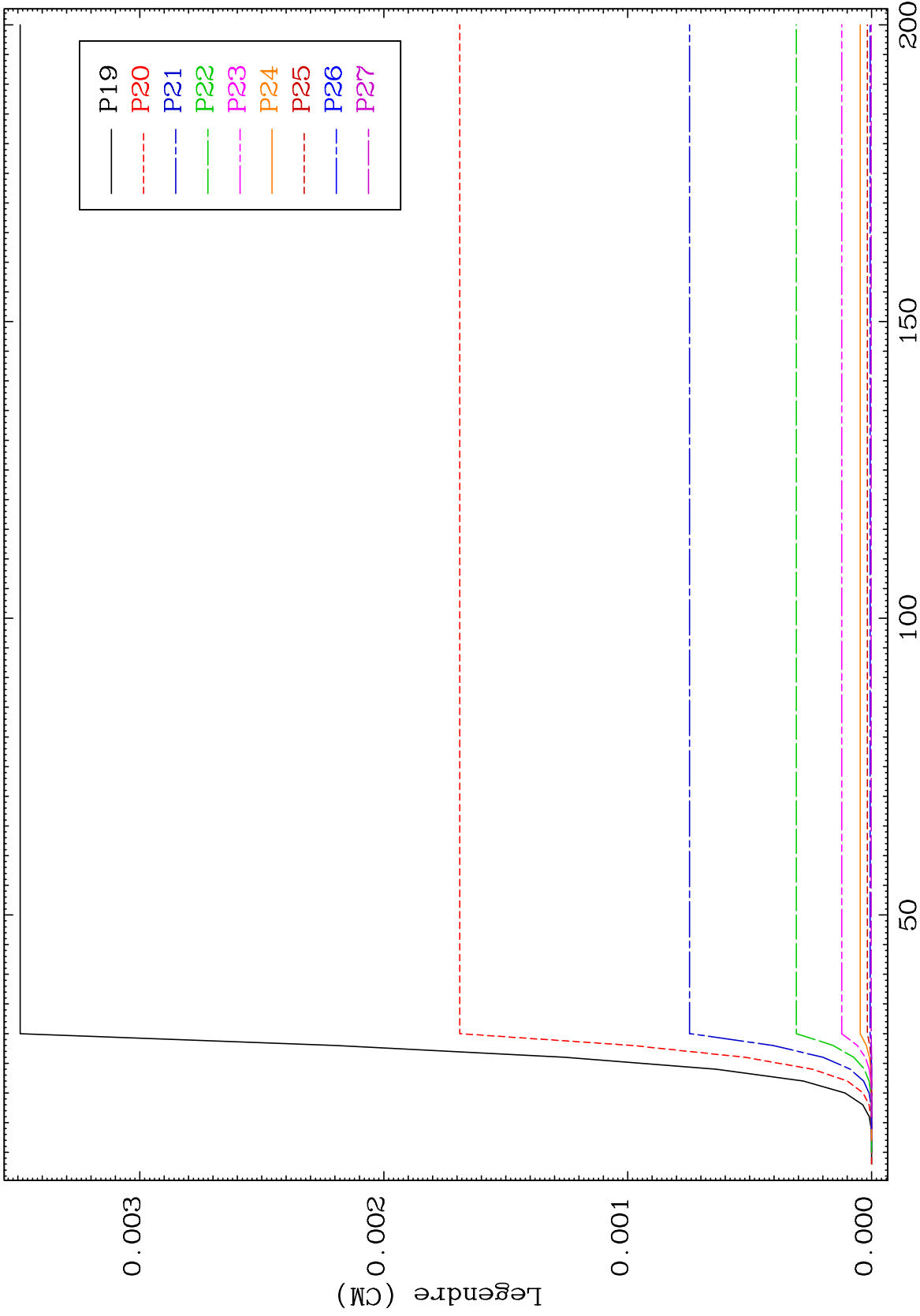
83

41-Nb-95

MAT 4131

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

41-Nb-95



84

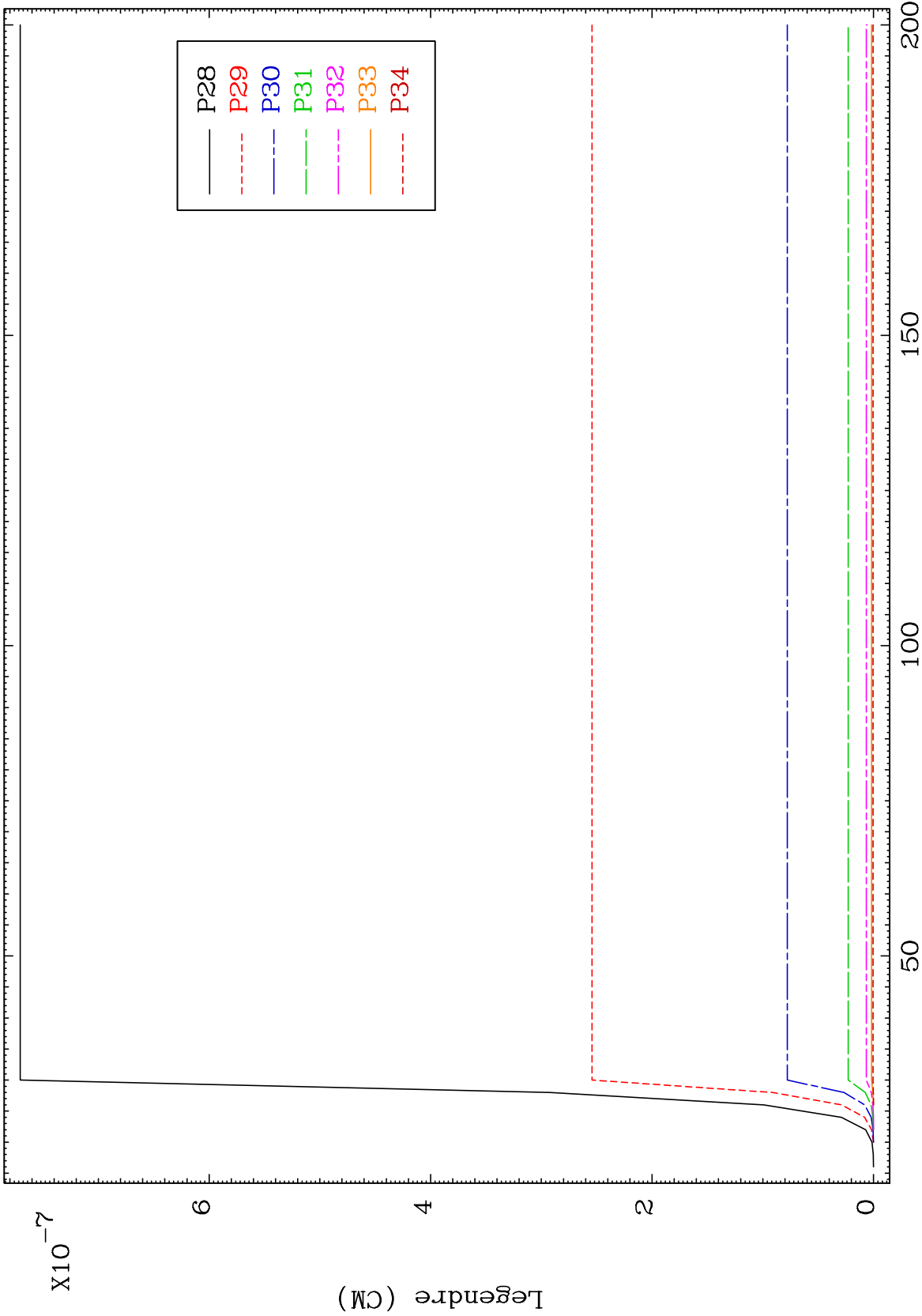
Incident Energy (MeV)

41-Nb-95

MAT 4131

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

41-Nb-95



85

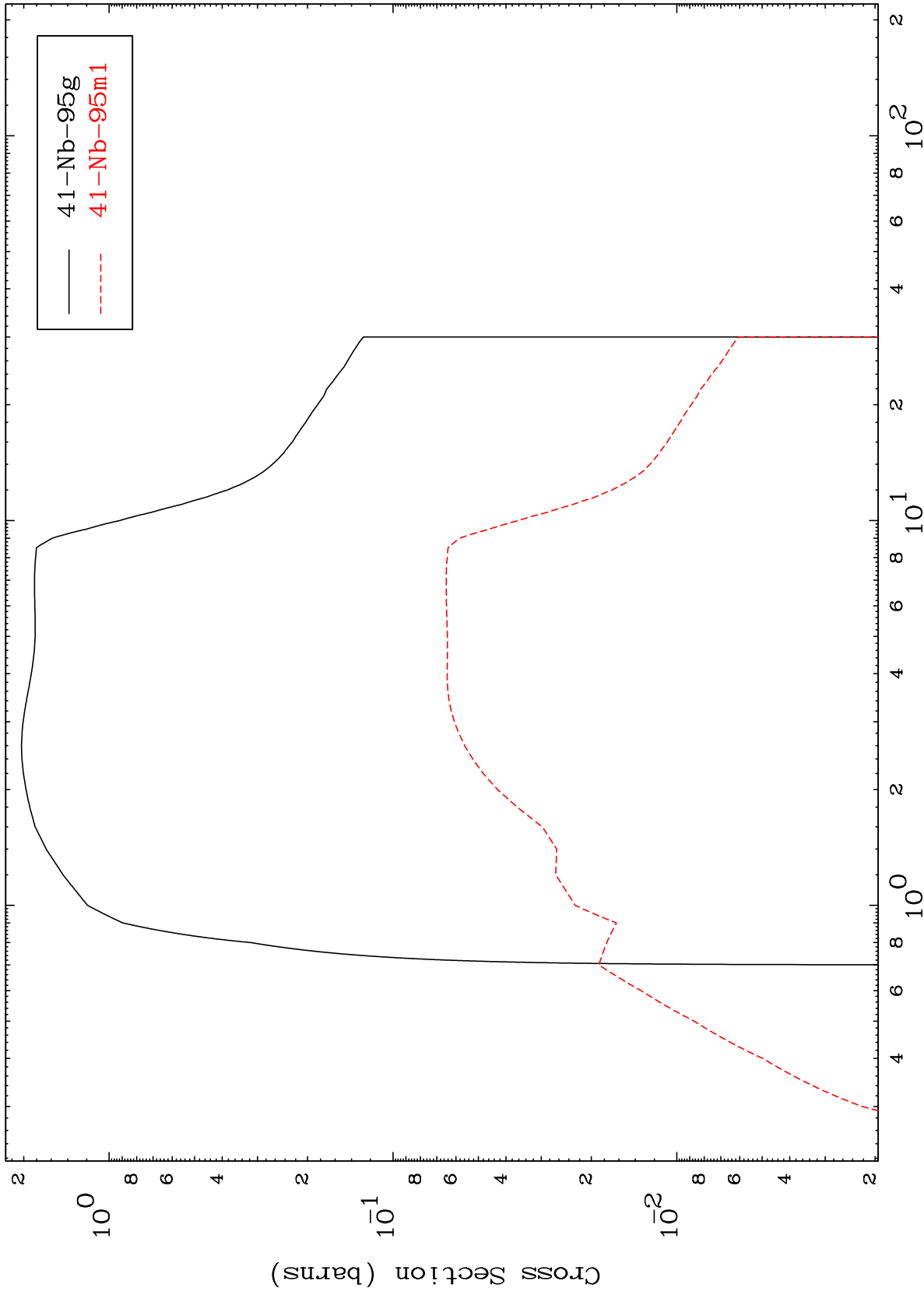
Incident Energy (MeV)

41-Nb-95

MAT 4131

41-Nb-95

Inelastic Radionuclide Production Cross Section



86

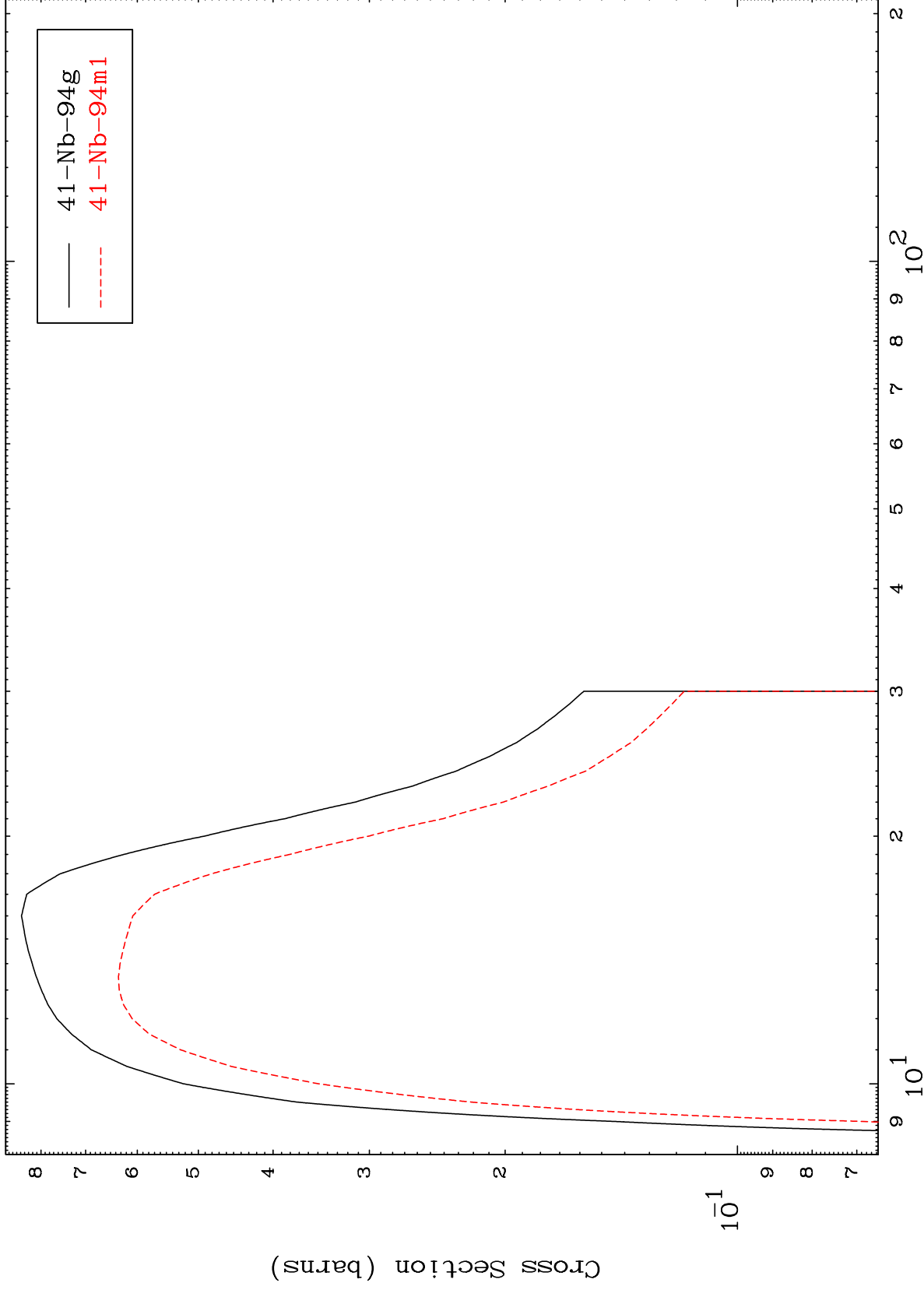
41-Nb-95

MAT 4131

(n,2n)

41-Nb-95

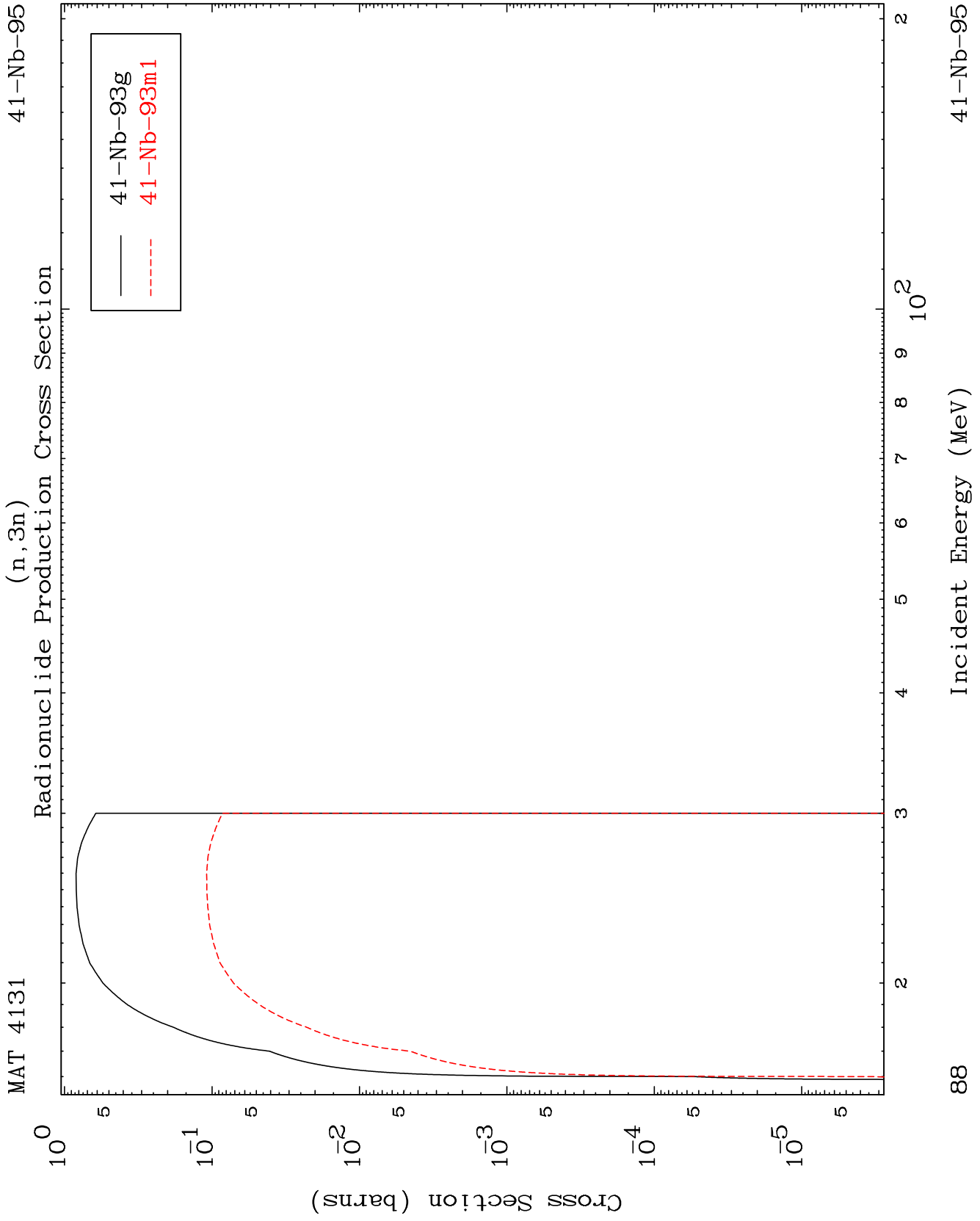
Radionuclide Production Cross Section



87

Incident Energy (MeV)

41-Nb-95

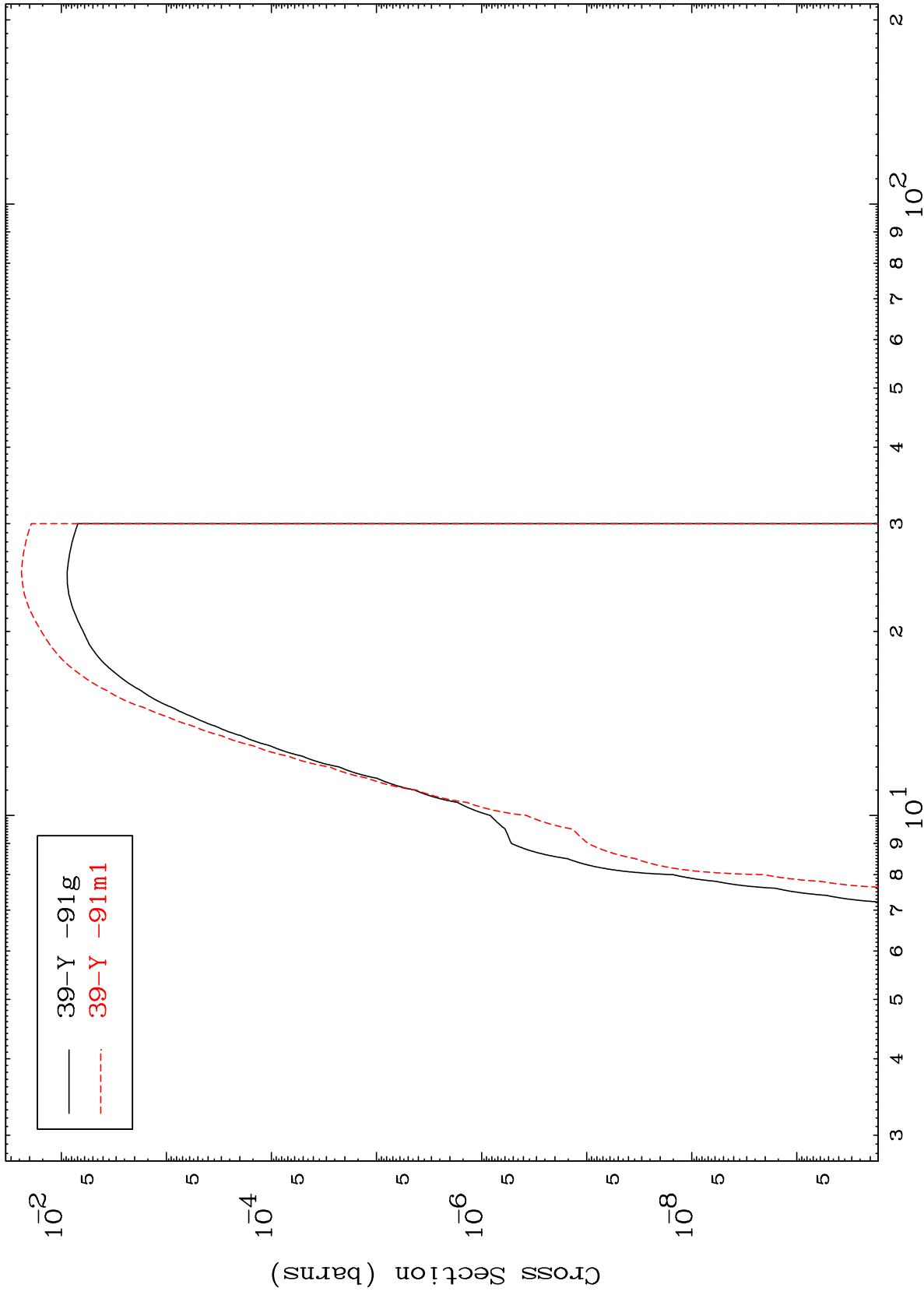


MAT 4131

(n,n') α

41-Nb-95

Radionuclide Production Cross Section



39-Y -91g
39-Y -91m1

89

Incident Energy (MeV)

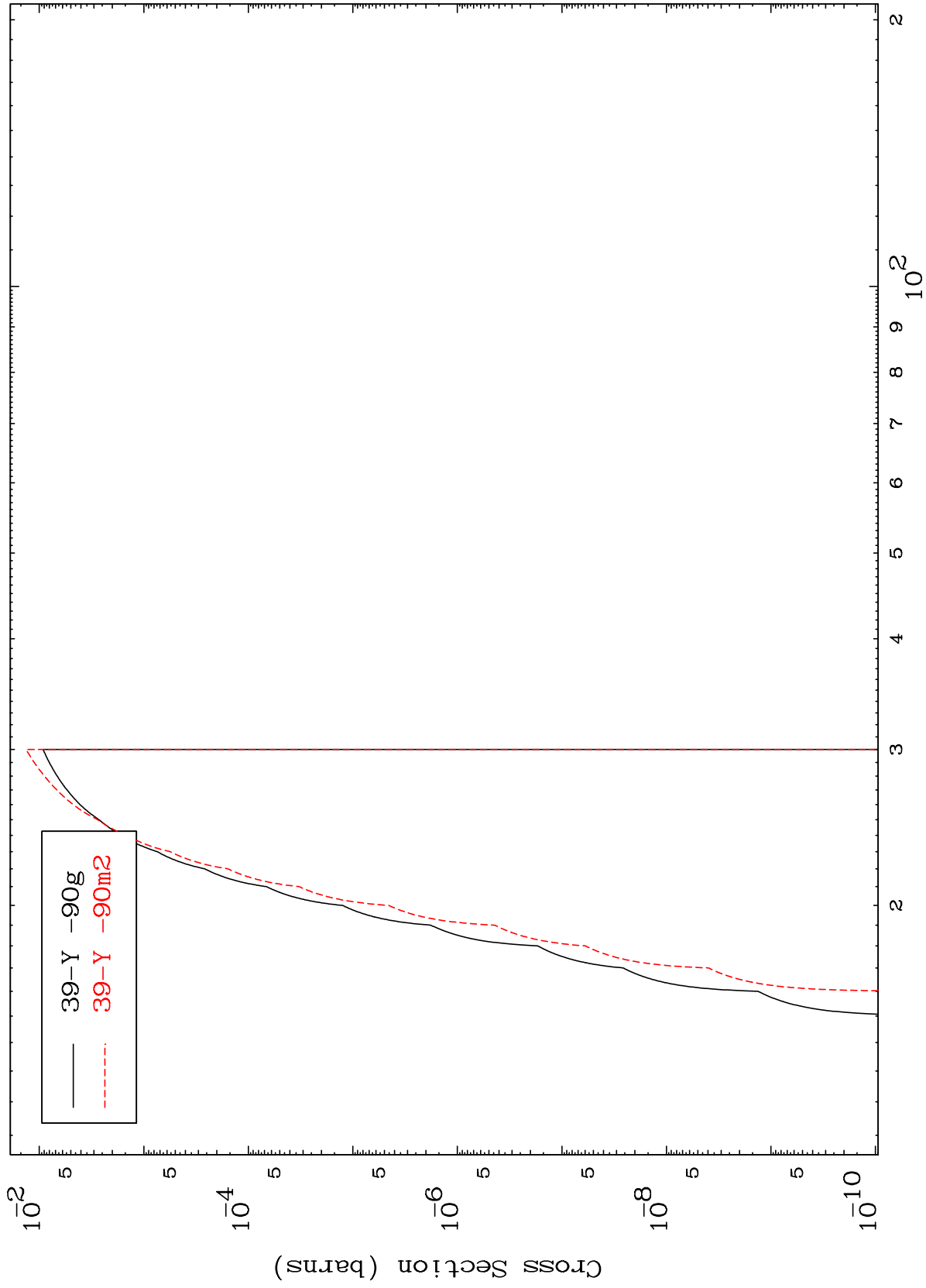
41-Nb-95

MAT 4131

(n,2n) α

41-Nb-95

Radionuclide Production Cross Section



90

Incident Energy (MeV)

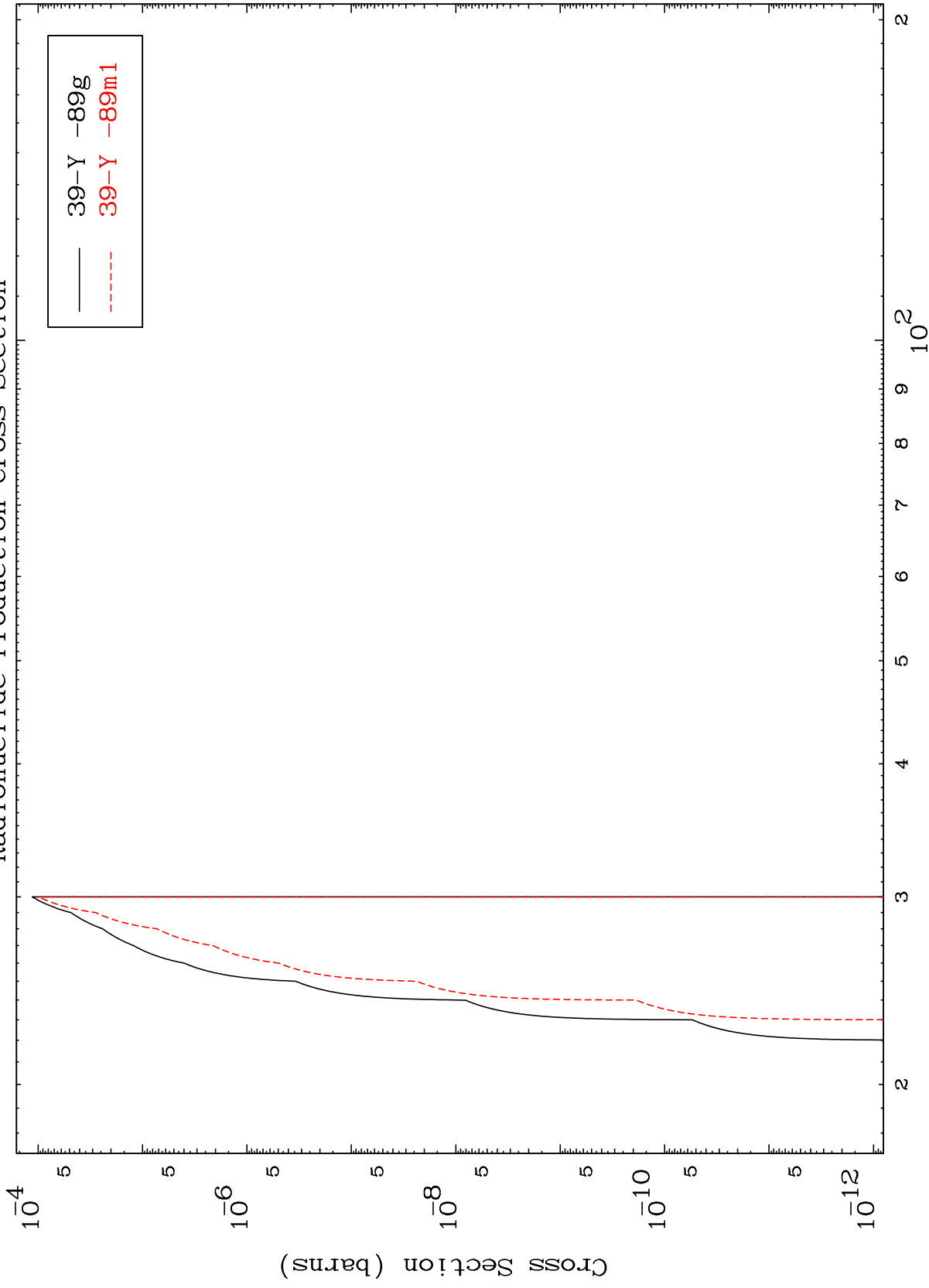
41-Nb-95

MAT 4131

(n,3n) α

41-Nb-95

Radionuclide Production Cross Section



91

Incident Energy (MeV)

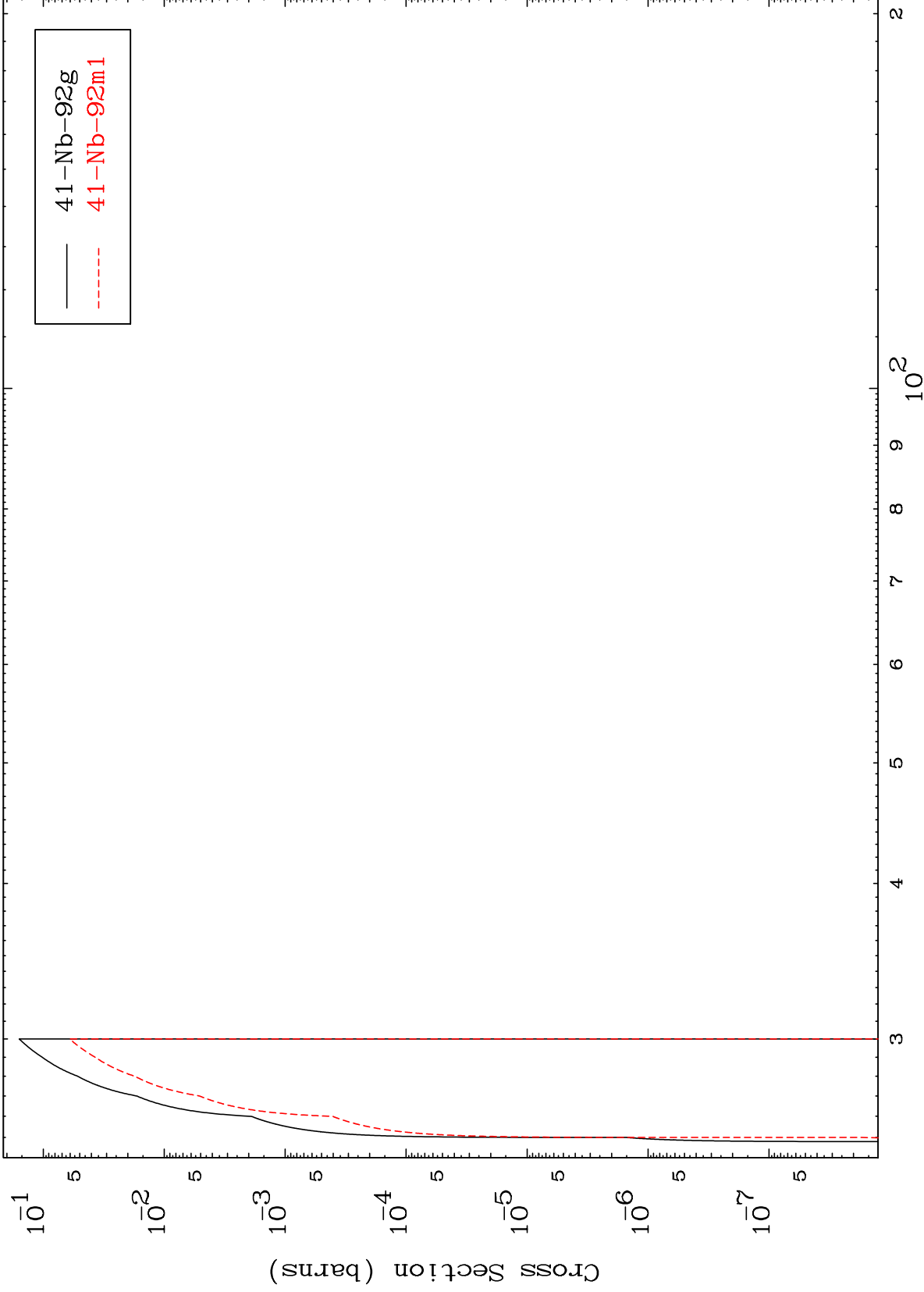
41-Nb-95

MAT 4131

(n,4n)

41-Nb-95

Radionuclide Production Cross Section



92

Incident Energy (MeV)

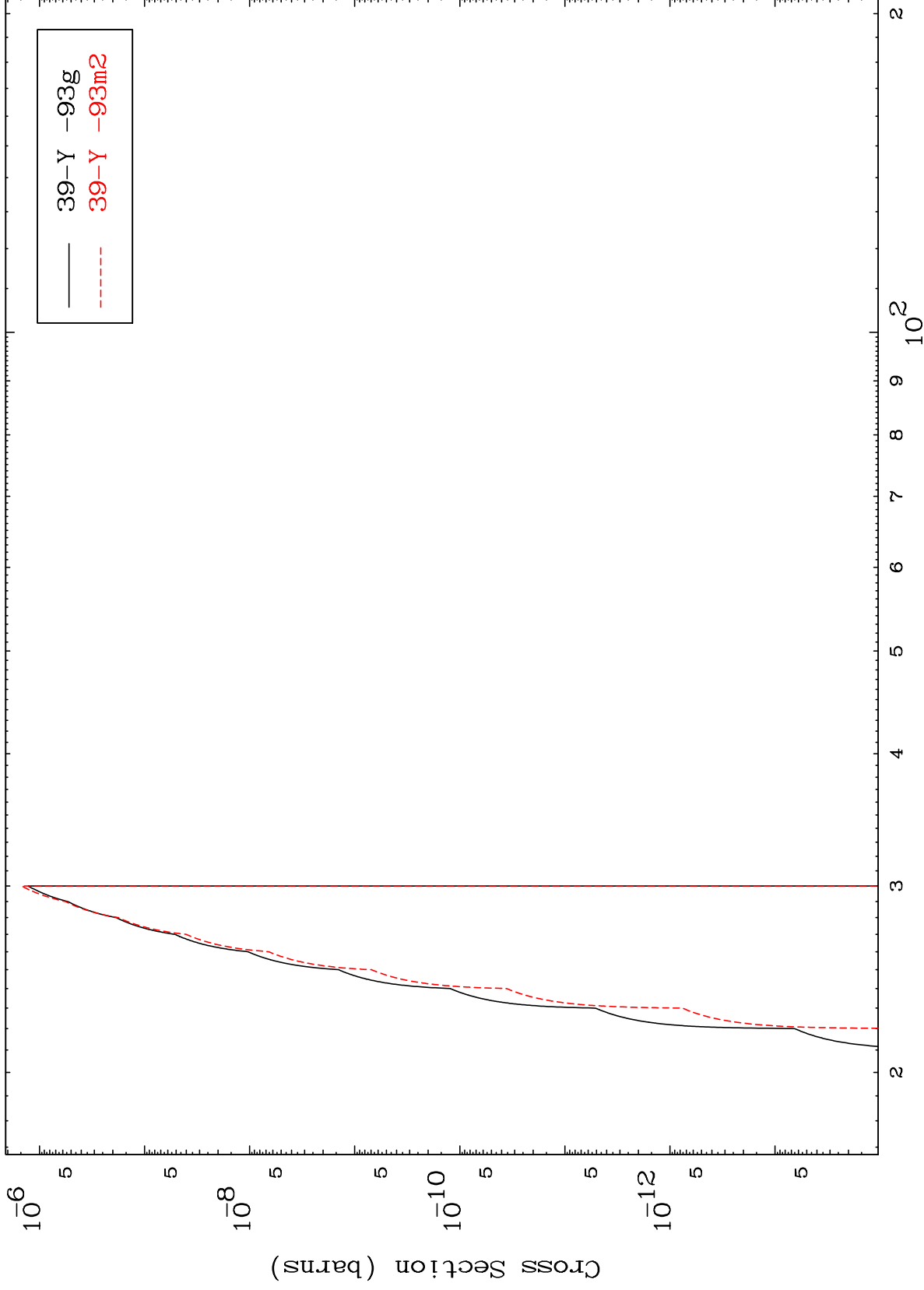
41-Nb-95

MAT 4131

(n,2n) p

41-Nb-95

Radionuclide Production Cross Section



93

Incident Energy (MeV)

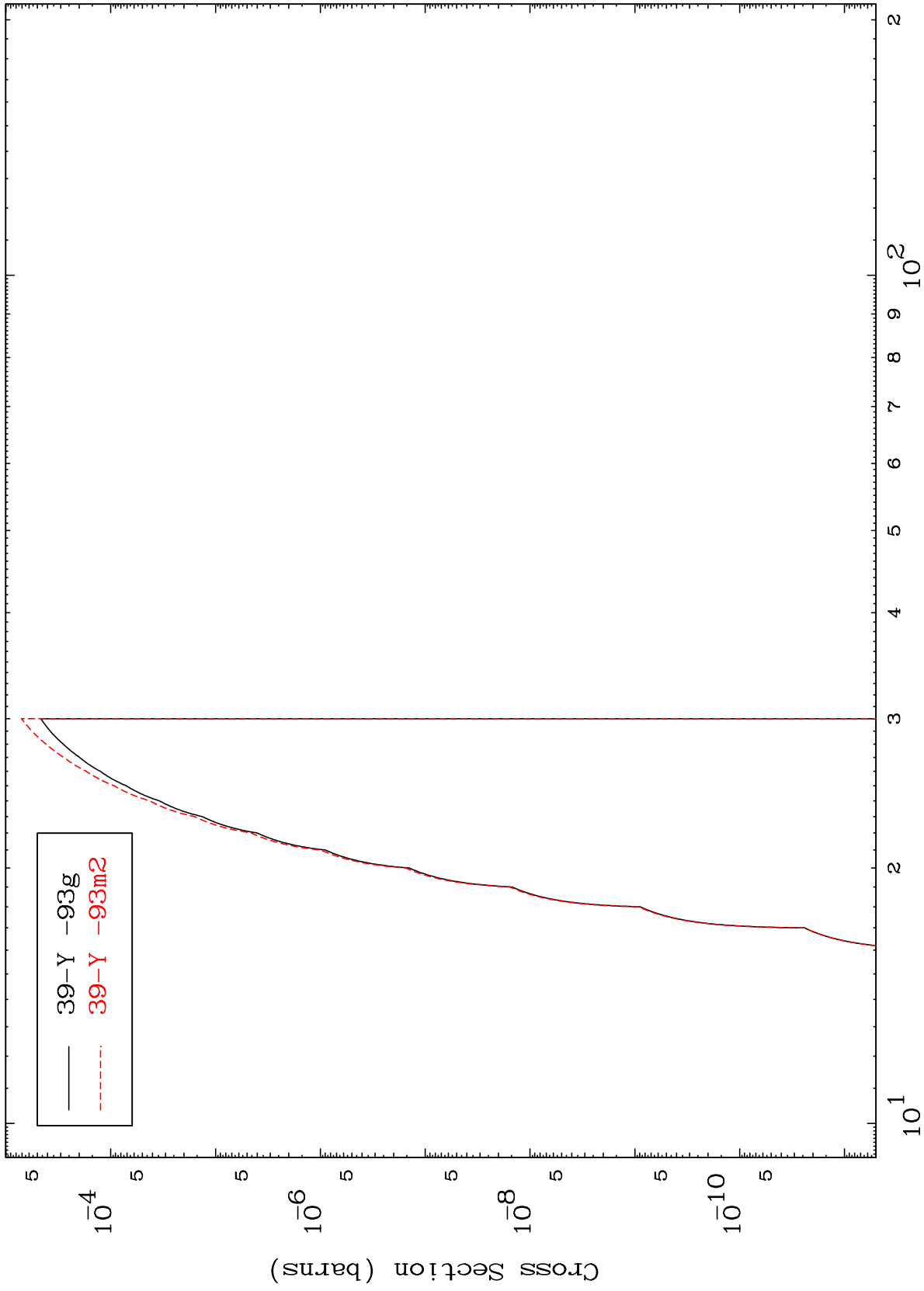
41-Nb-95

MAT 4131

(n,He-3)

41-Nb-95

Radionuclide Production Cross Section



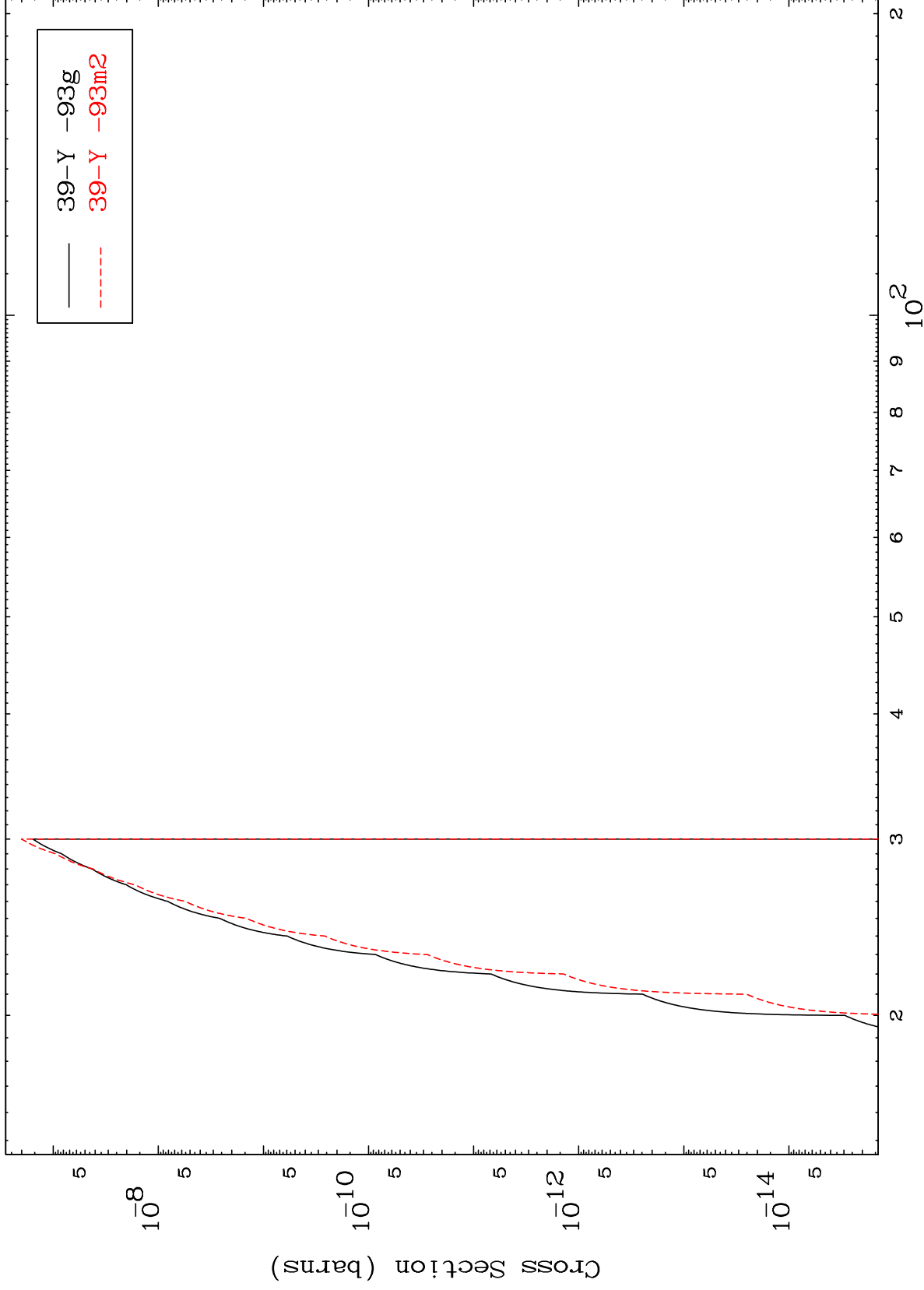
39-Y-93g
39-Y-93m2

MAT 4131

(n,p) d

41-Nb-95

Radionuclide Production Cross Section



95

Incident Energy (MeV)

41-Nb-95