

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
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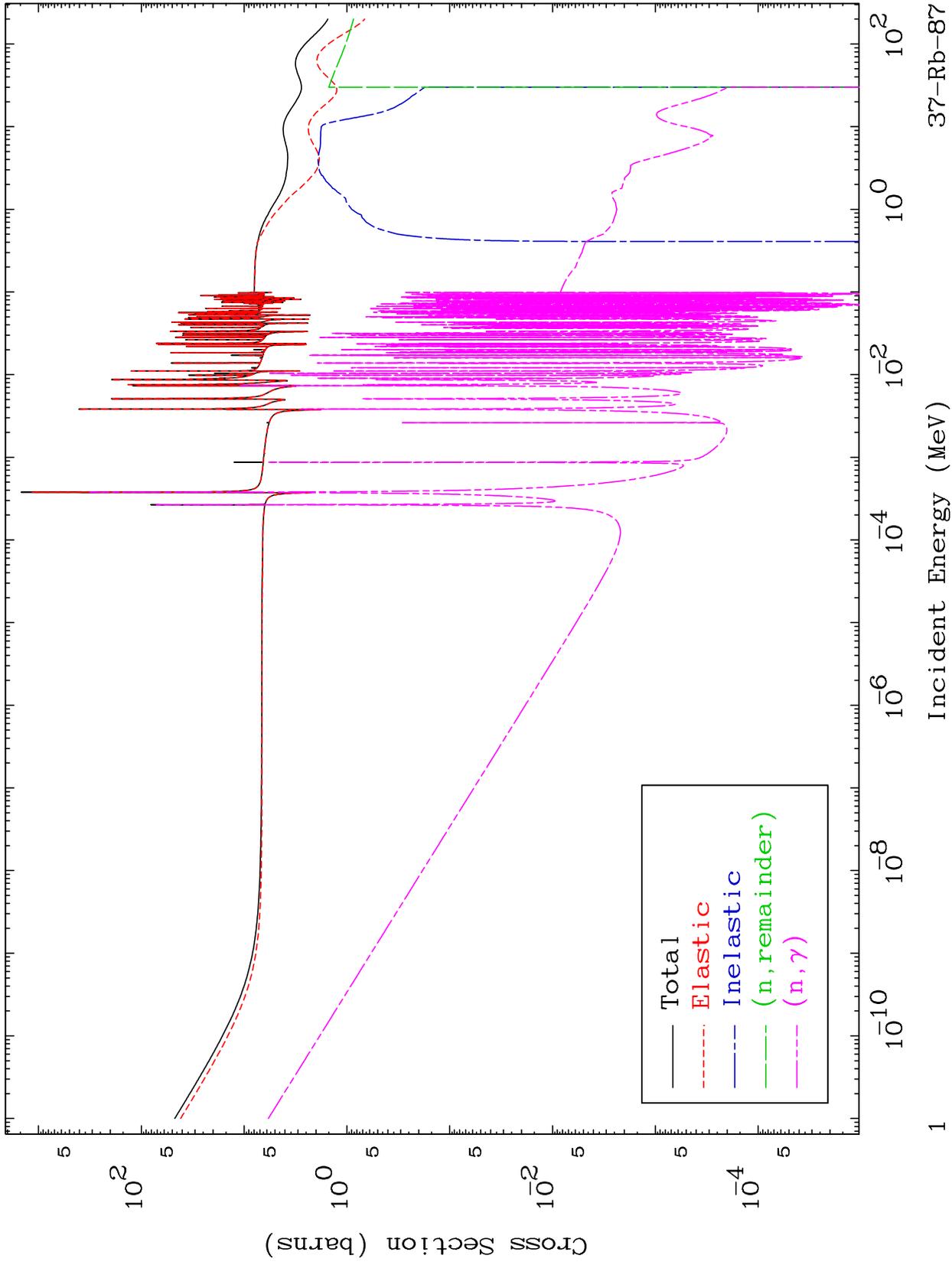
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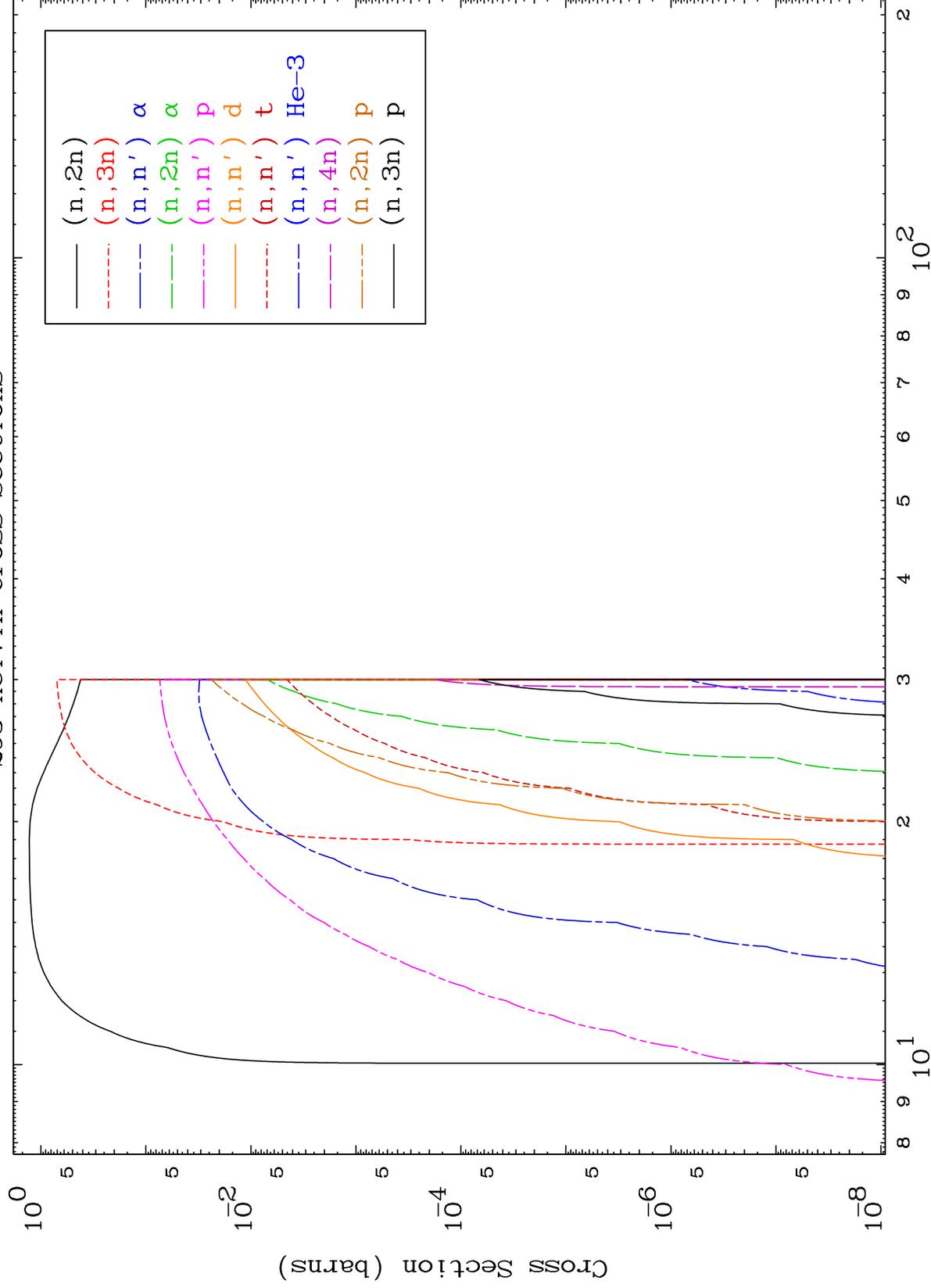
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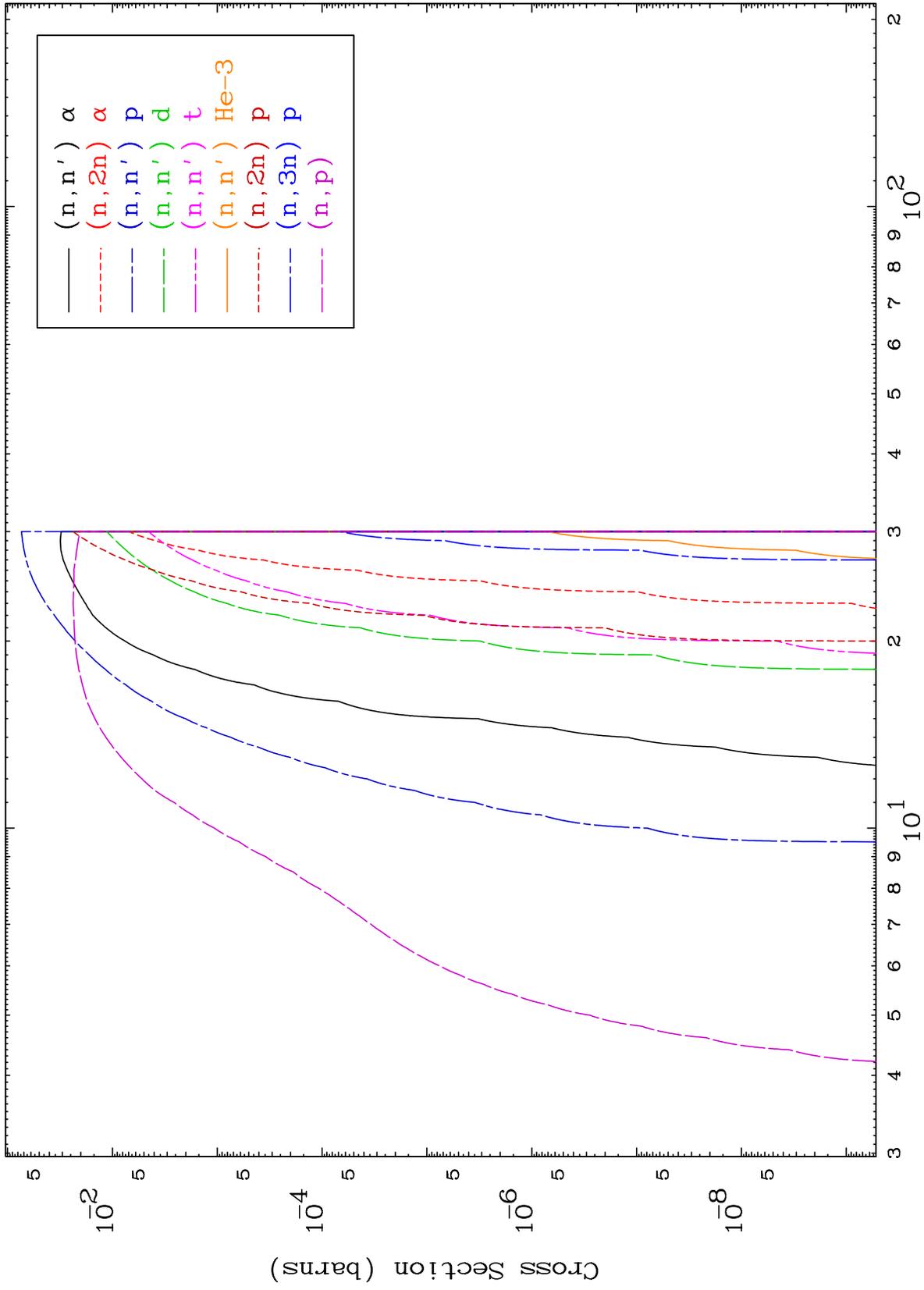
MAT 3731

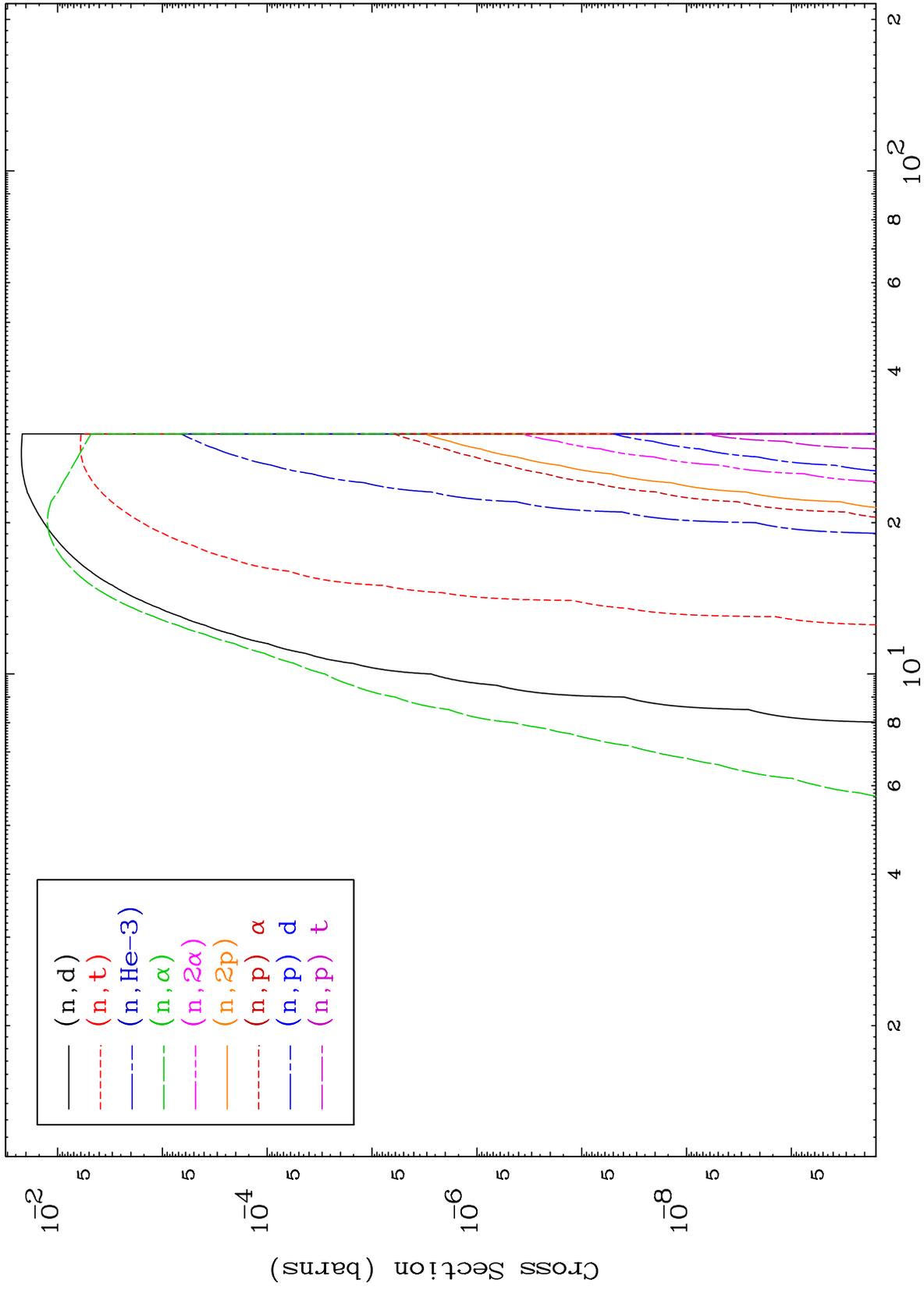
Major
293 Kelvin Cross Sections

37-Rb-87





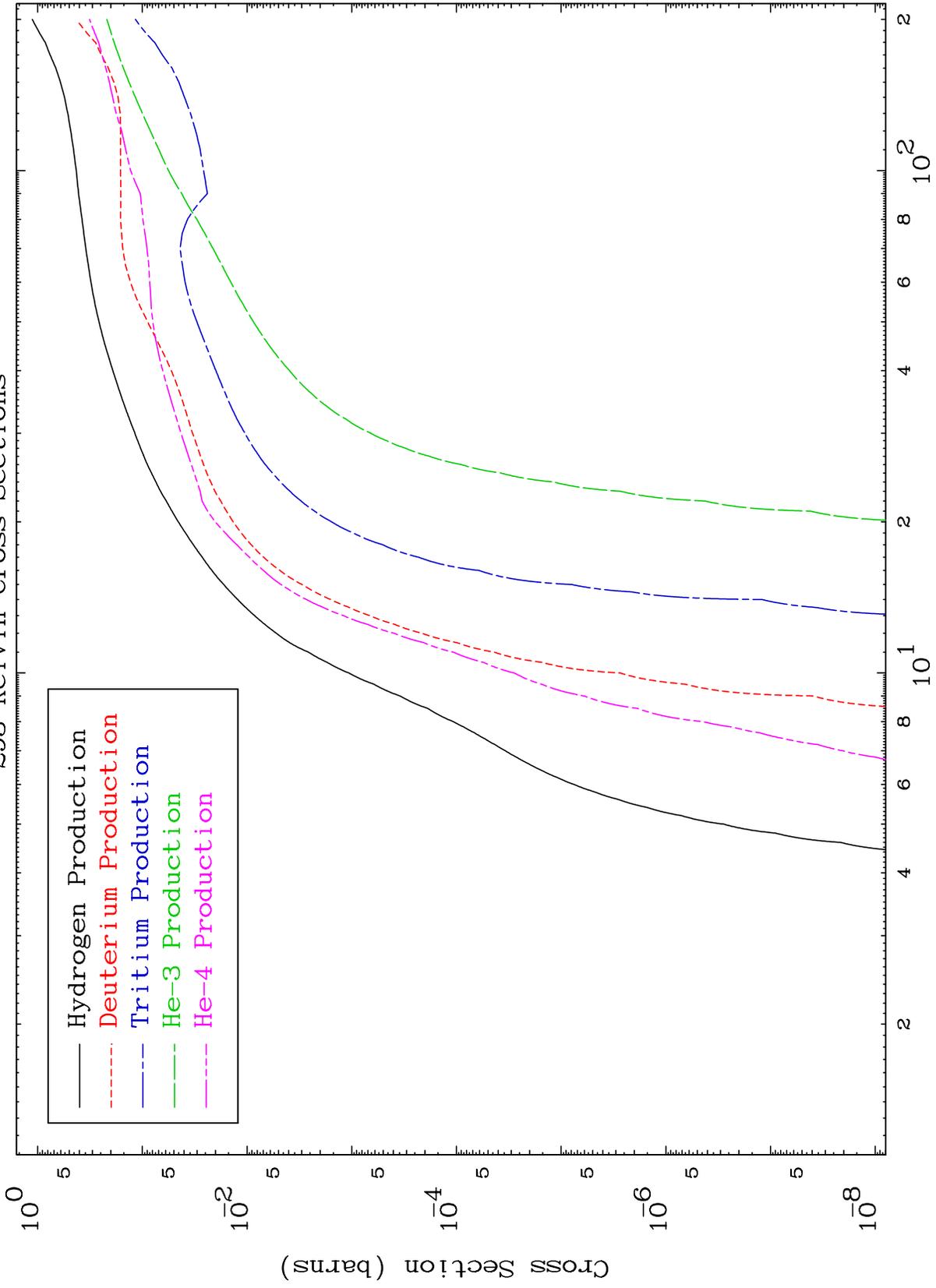




MAT 3731

Particle Production
293 Kelvin Cross Sections

37-Rb-87



5

Incident Energy (MeV)

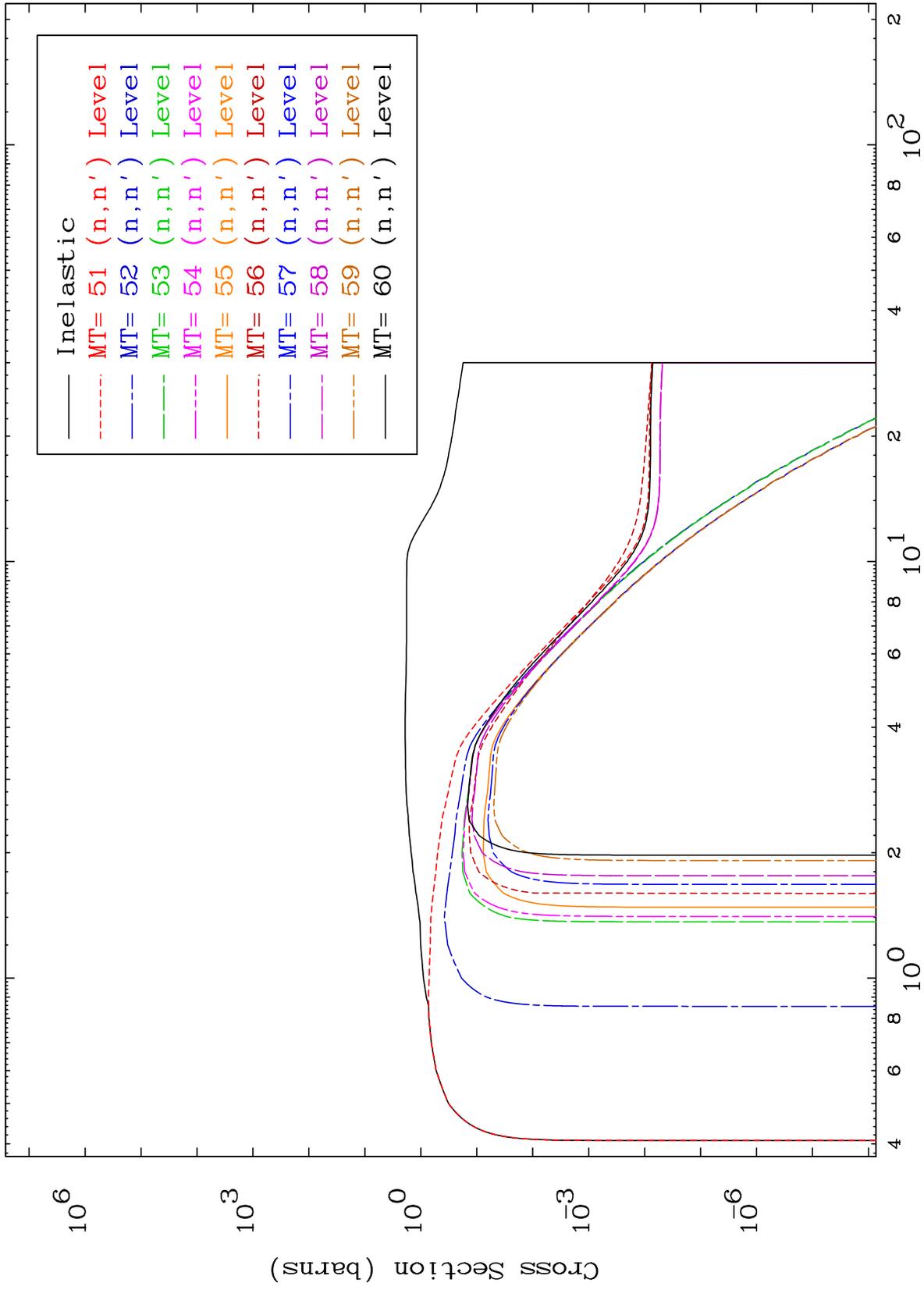
37-Rb-87

MAT 3731

(n,n') Level

37-Rb-87

293 Kelvin Cross Sections



6

Incident Energy (MeV)

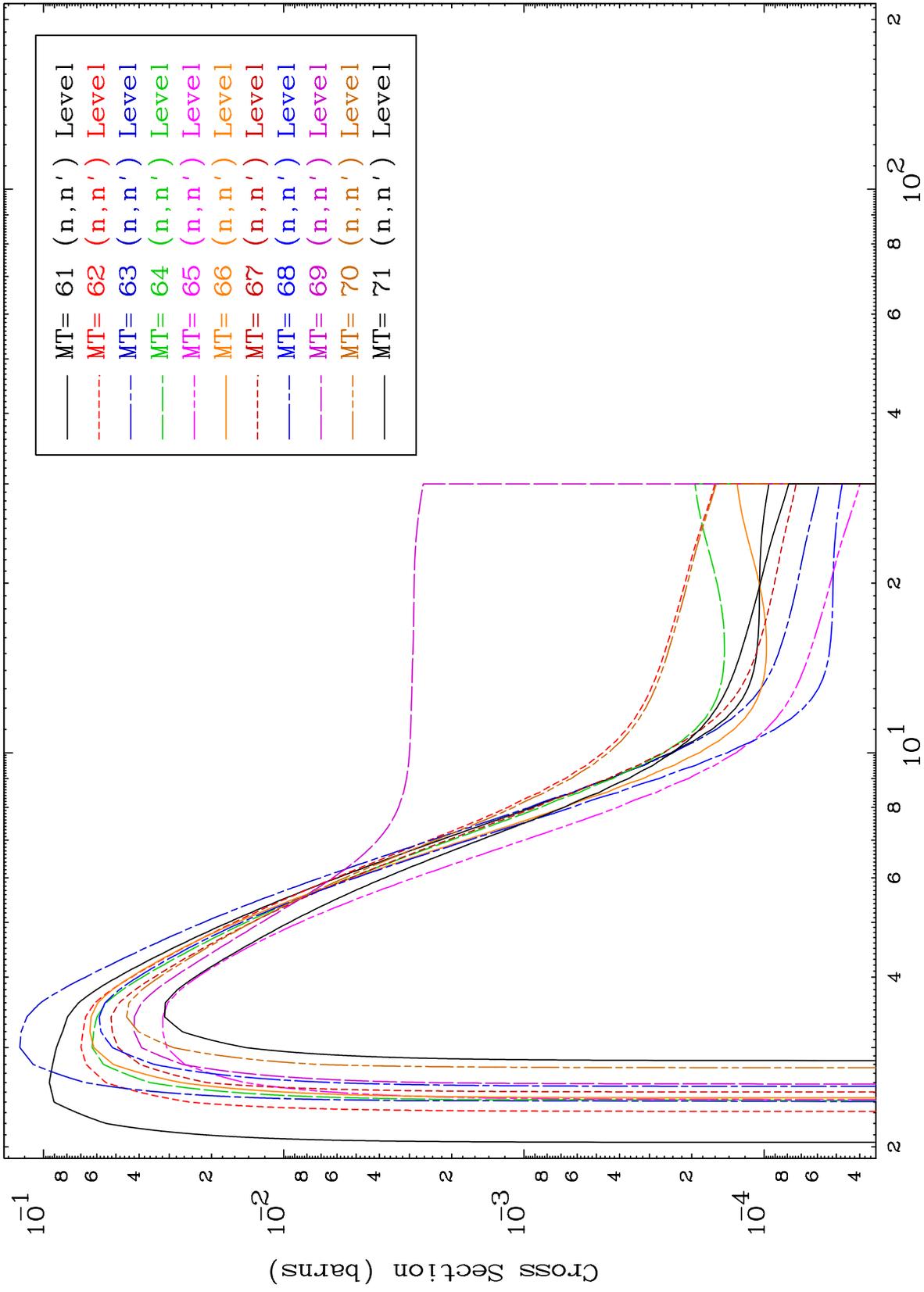
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MAT 3731

(n,n') Level

37-Rb-87

293 Kelvin Cross Sections



7

Incident Energy (MeV)

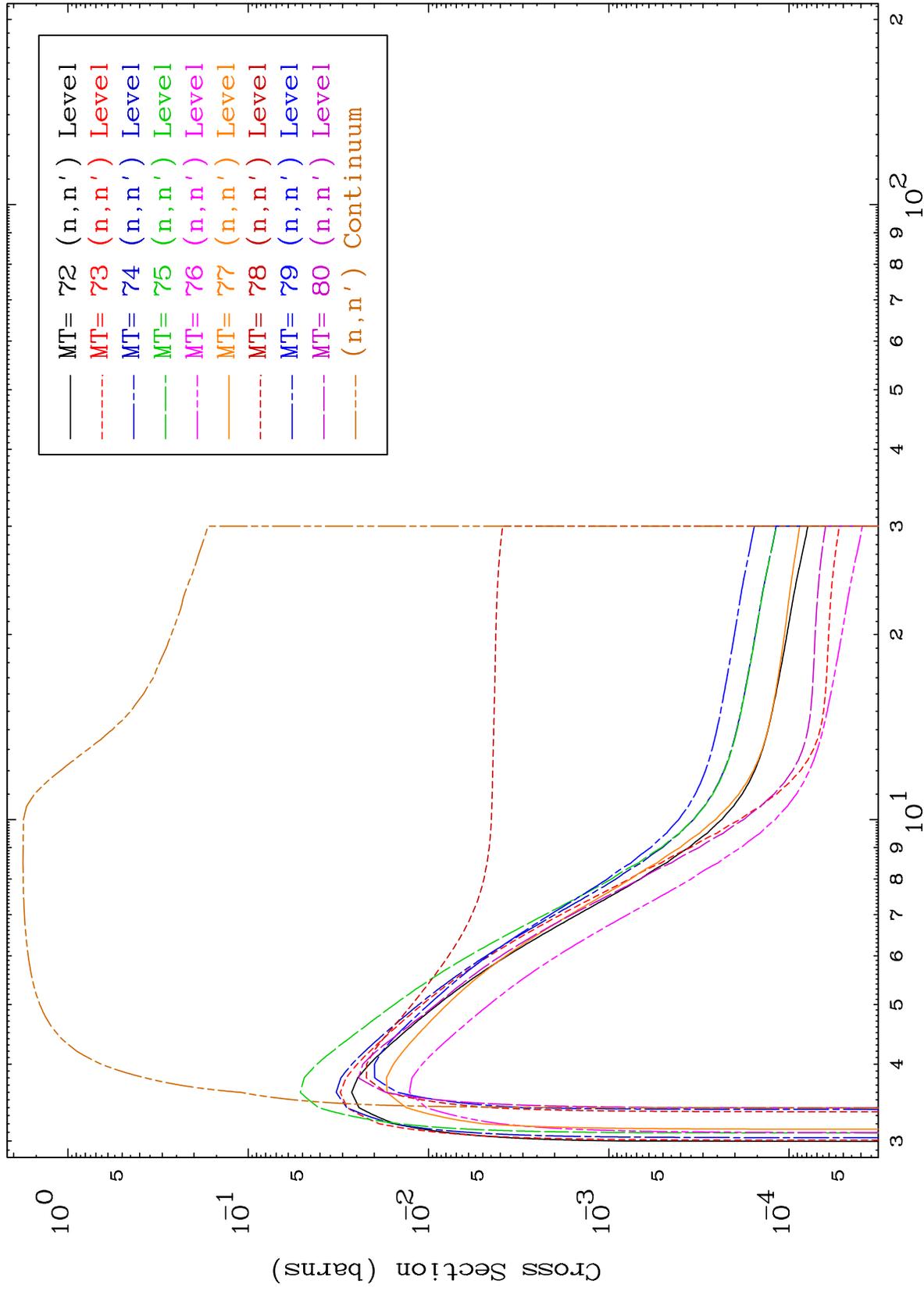
37-Rb-87

MAT 3731

(n,n') Level

37-Rb-87

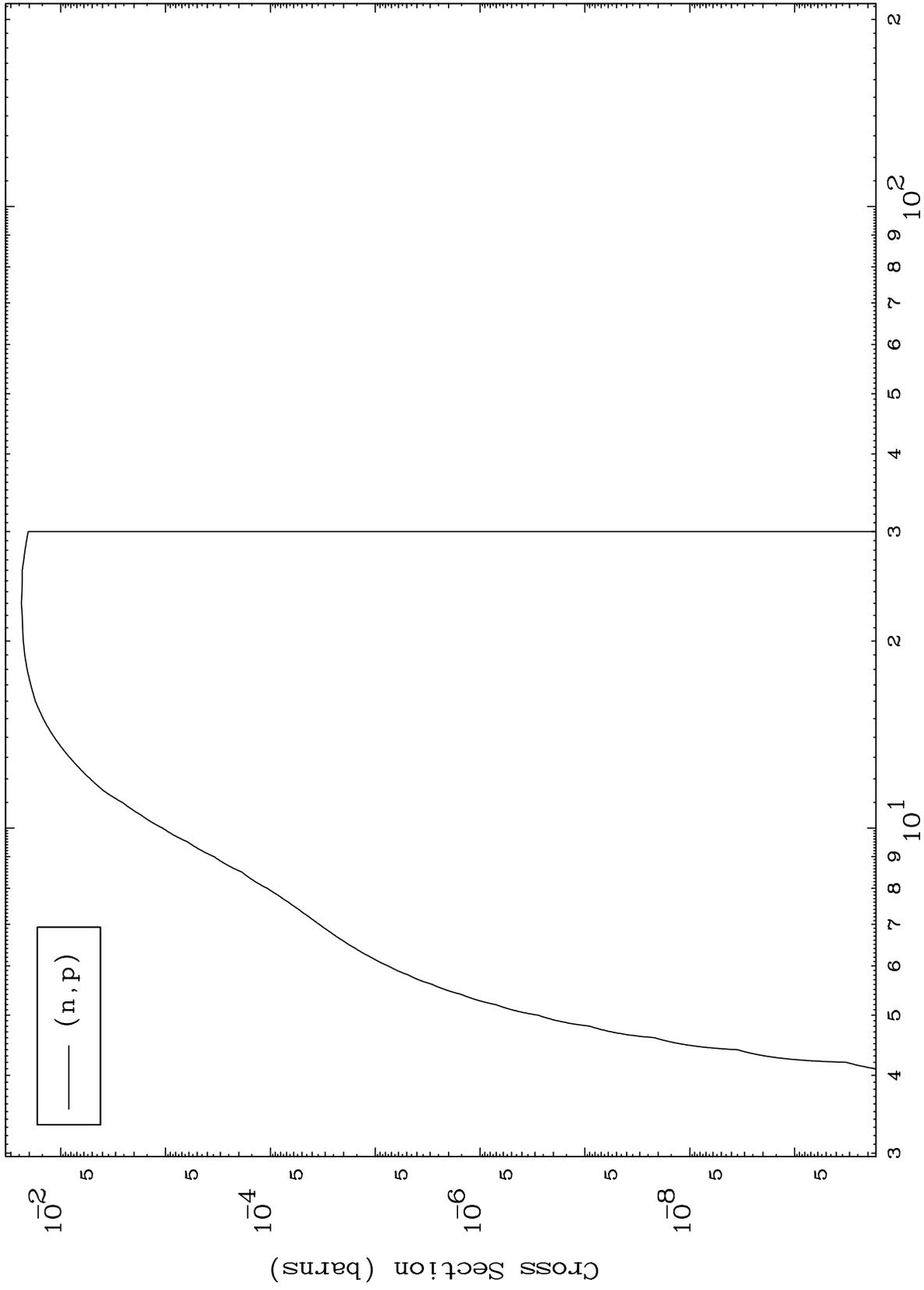
293 Kelvin Cross Sections



8

Incident Energy (MeV)

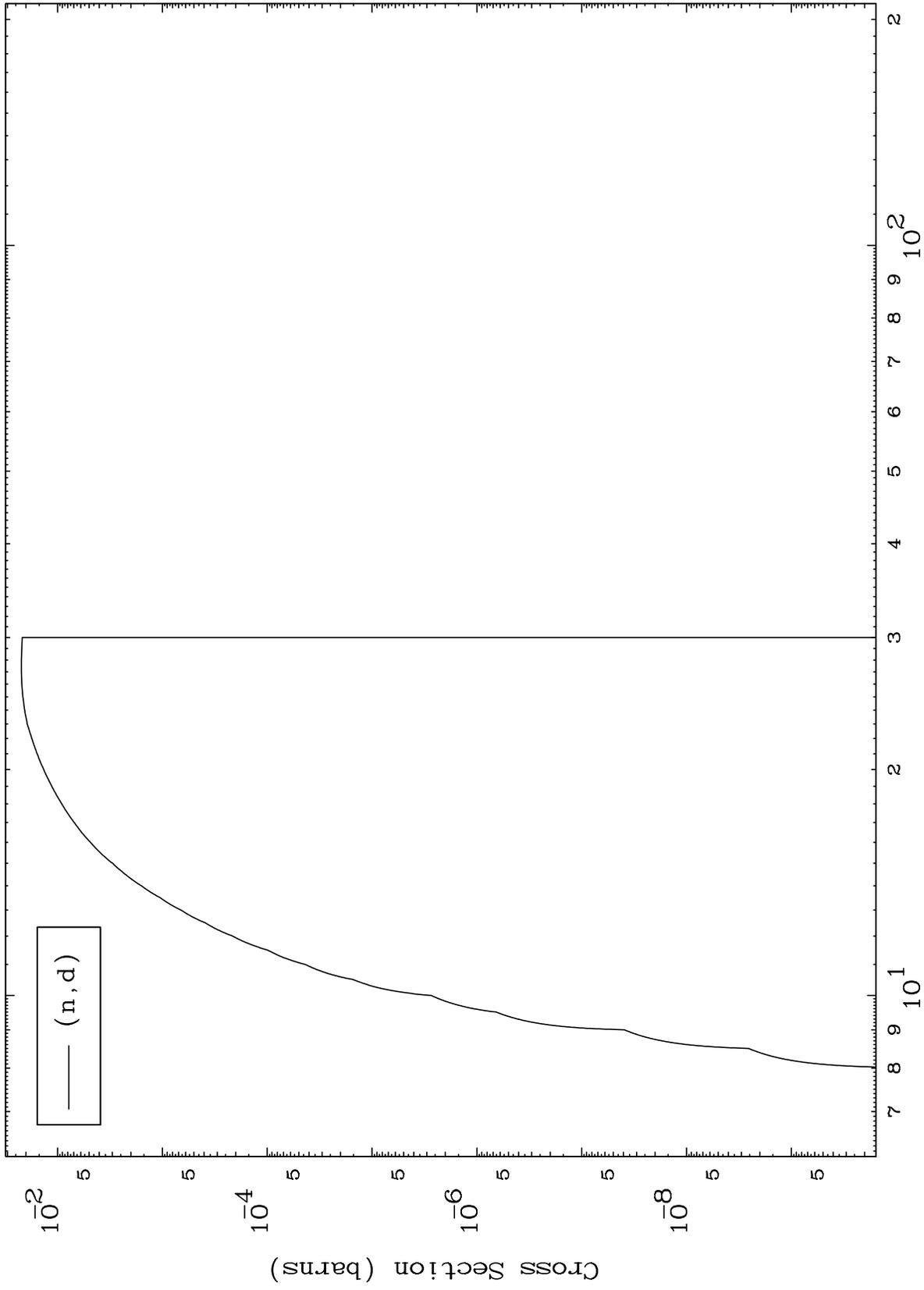
37-Rb-87



MAT 3731

(n,d) Levels
293 Kelvin Cross Sections

37-Rb-87



10

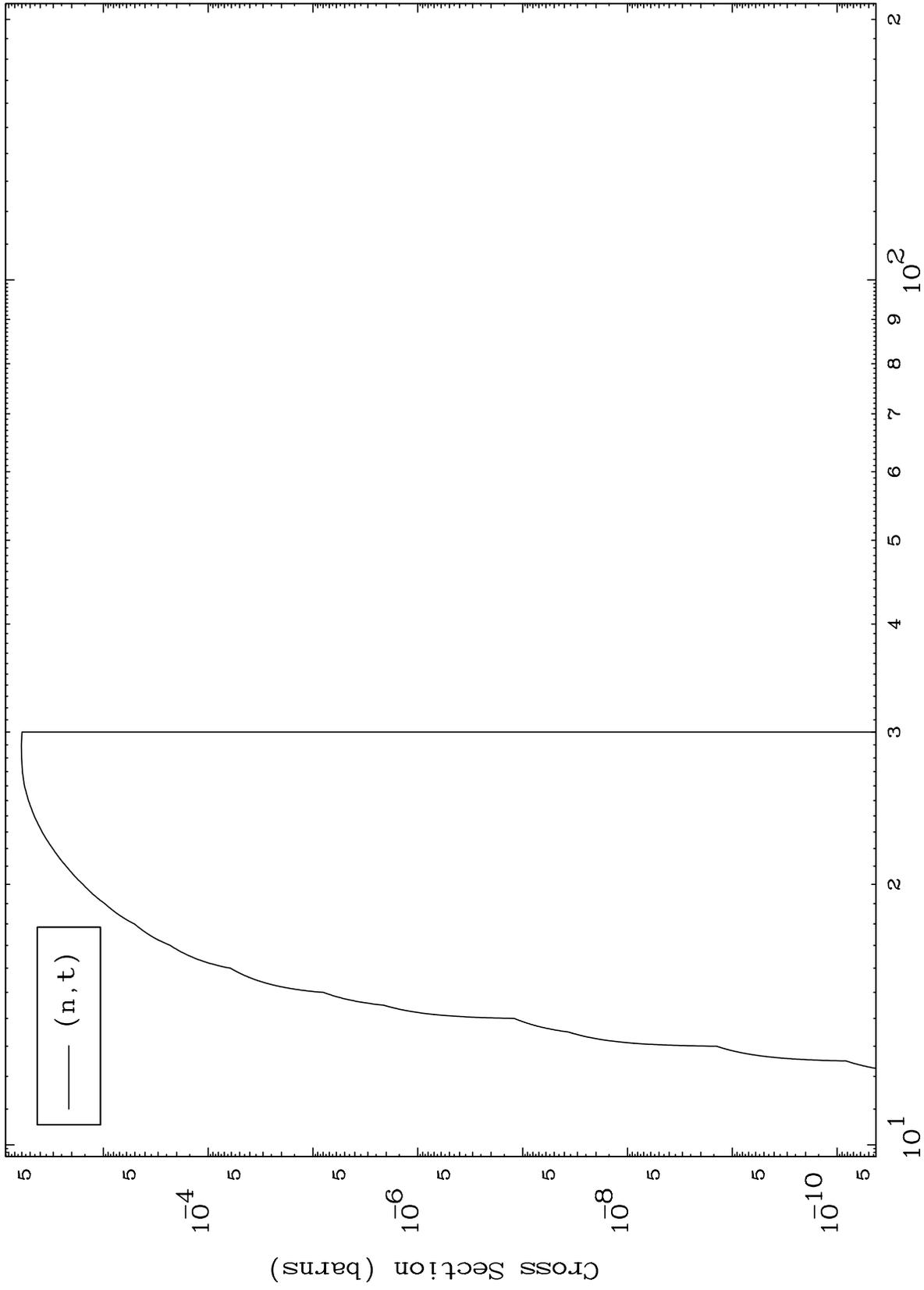
Incident Energy (MeV)

37-Rb-87

MAT 3731

(n,t) Levels
293 Kelvin Cross Sections

37-Rb-87



11

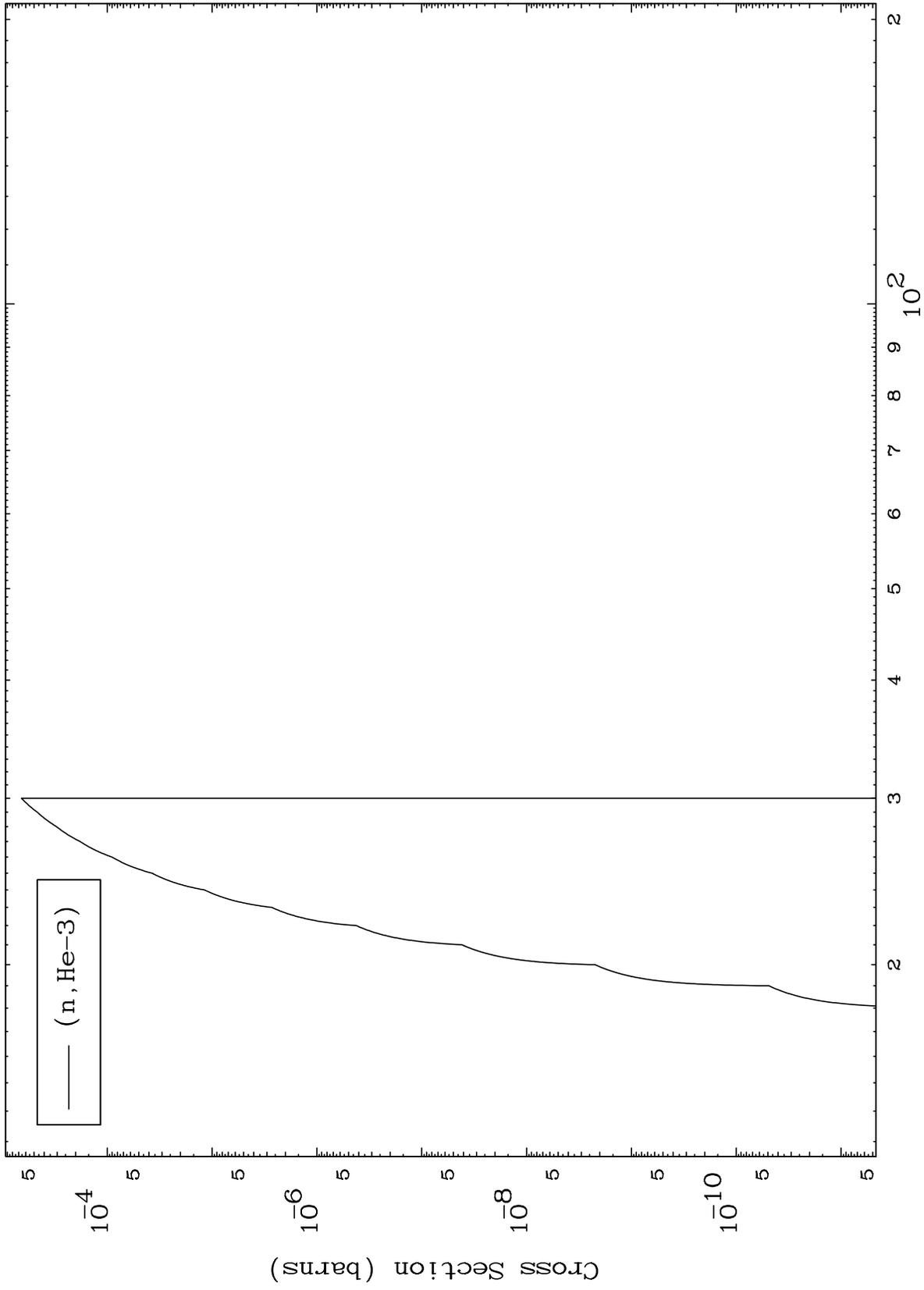
Incident Energy (MeV)

37-Rb-87

MAT 3731

(n,He3) Levels
293 Kelvin Cross Sections

37-Rb-87



12

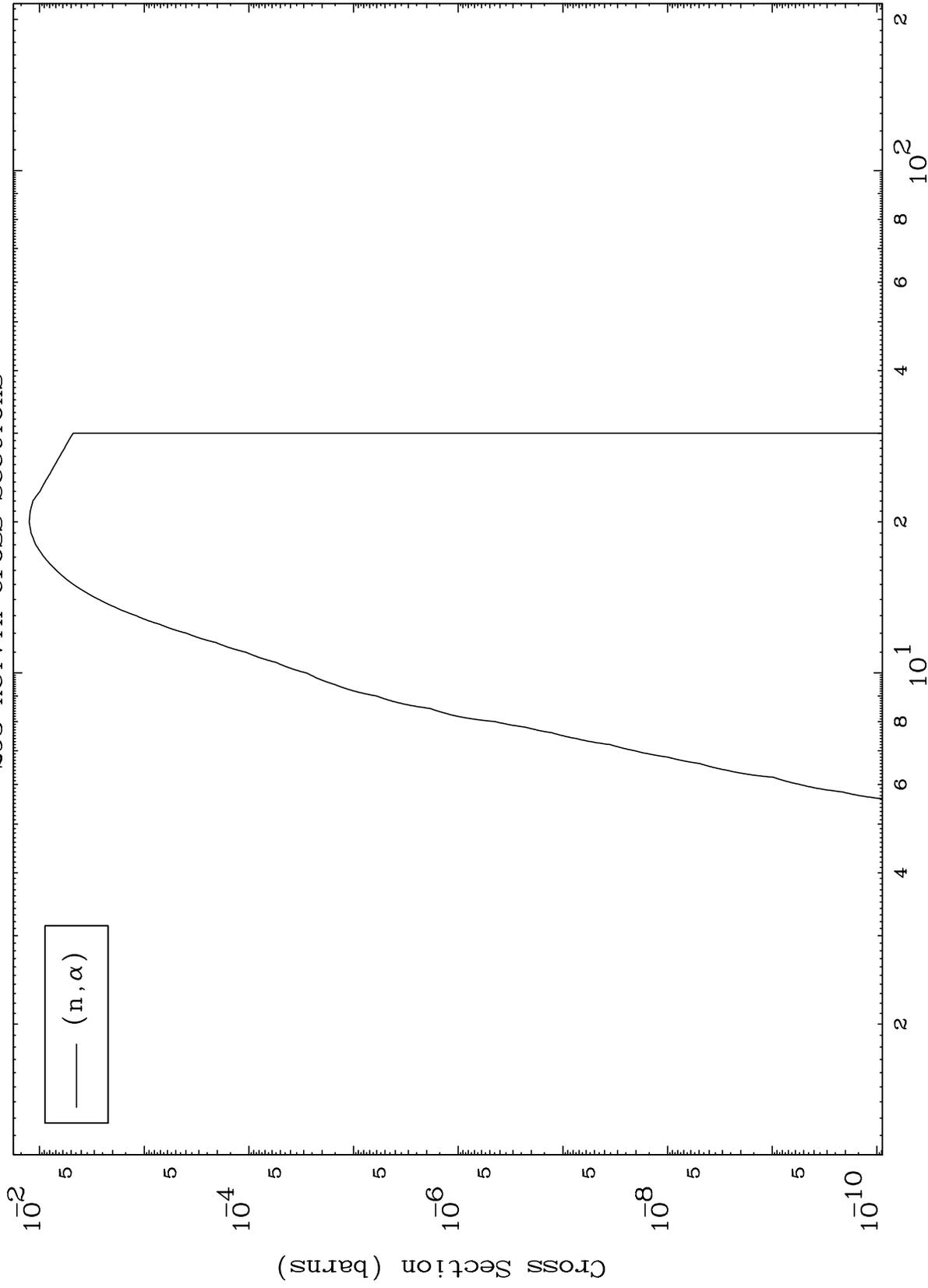
Incident Energy (MeV)

37-Rb-87

MAT 3731

(n,α) Levels
293 Kelvin Cross Sections

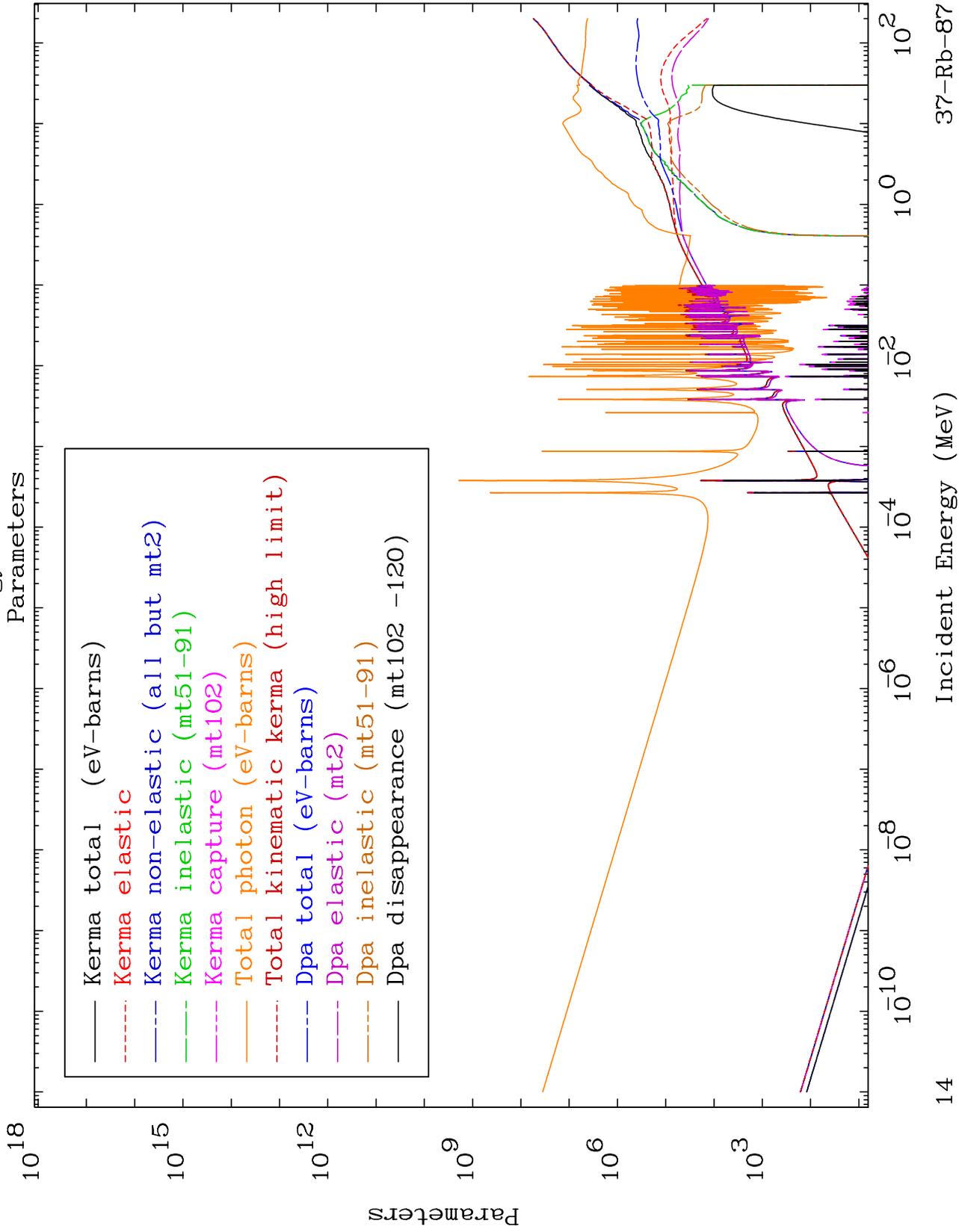
37-Rb-87



13

Incident Energy (MeV)

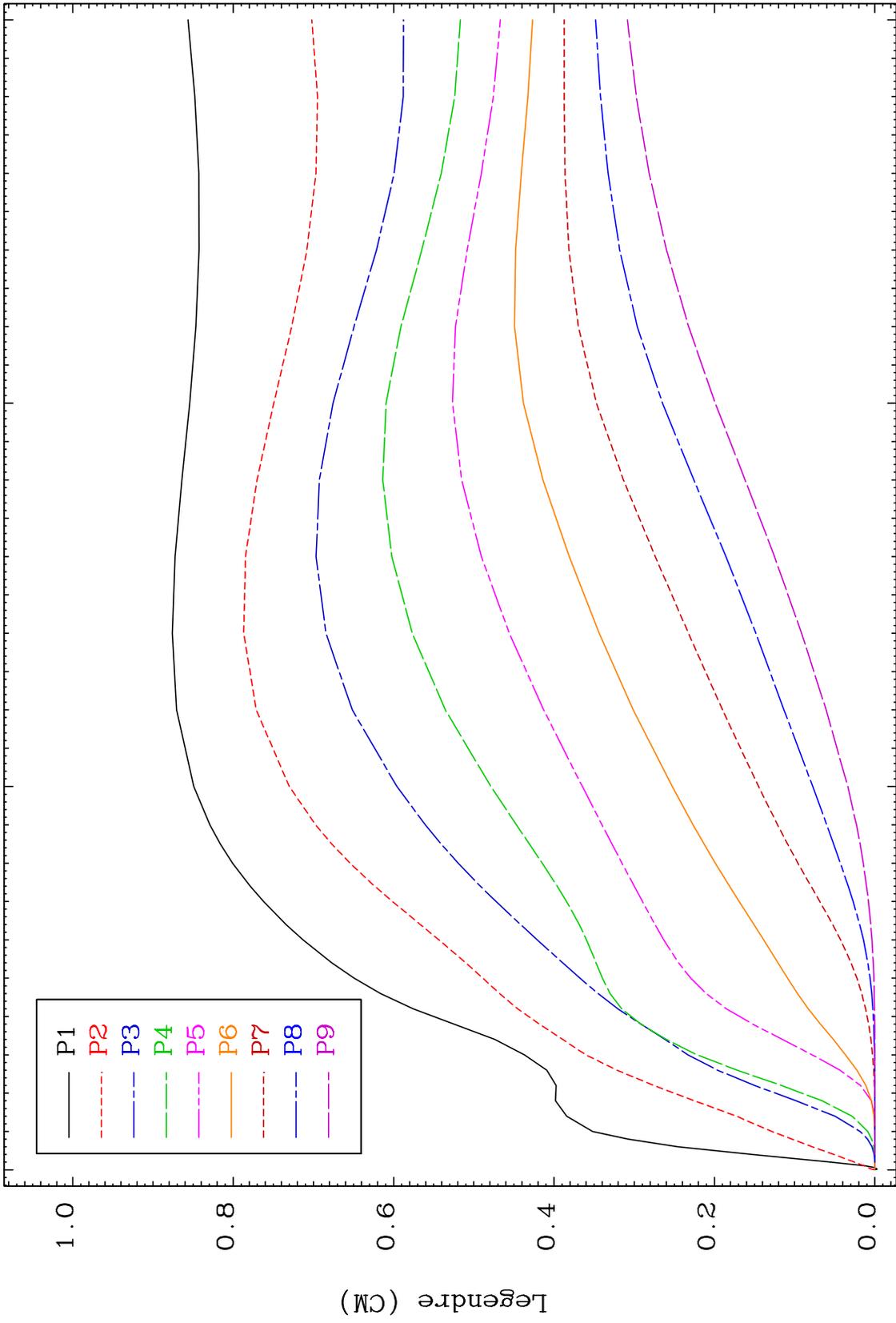
37-Rb-87



MAT 3731

Elastic Legendre Coefficients

37-Rb-87



15

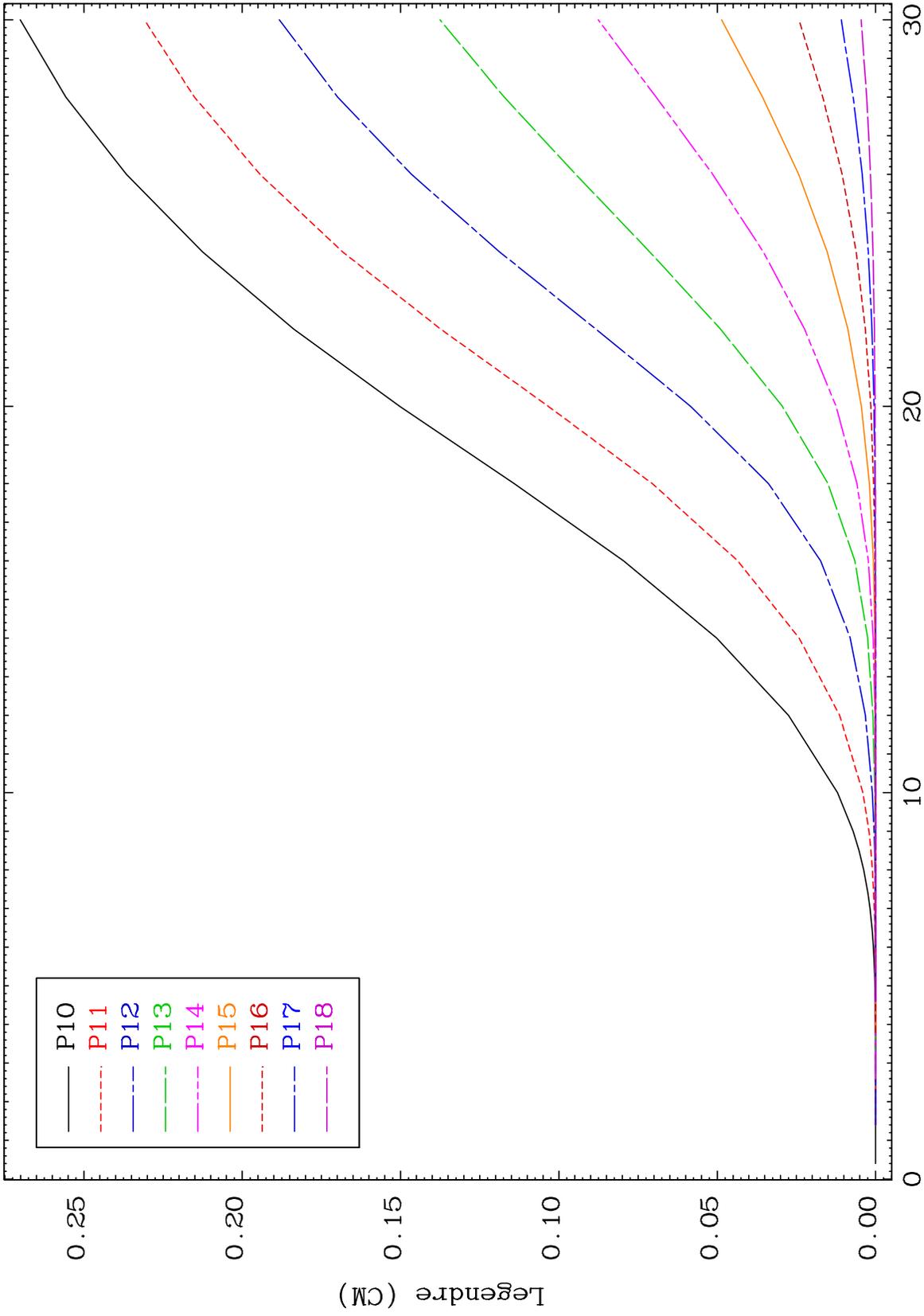
Incident Energy (MeV)

37-Rb-87

MAT 3731

Elastic Legendre Coefficients

37-Rb-87



16

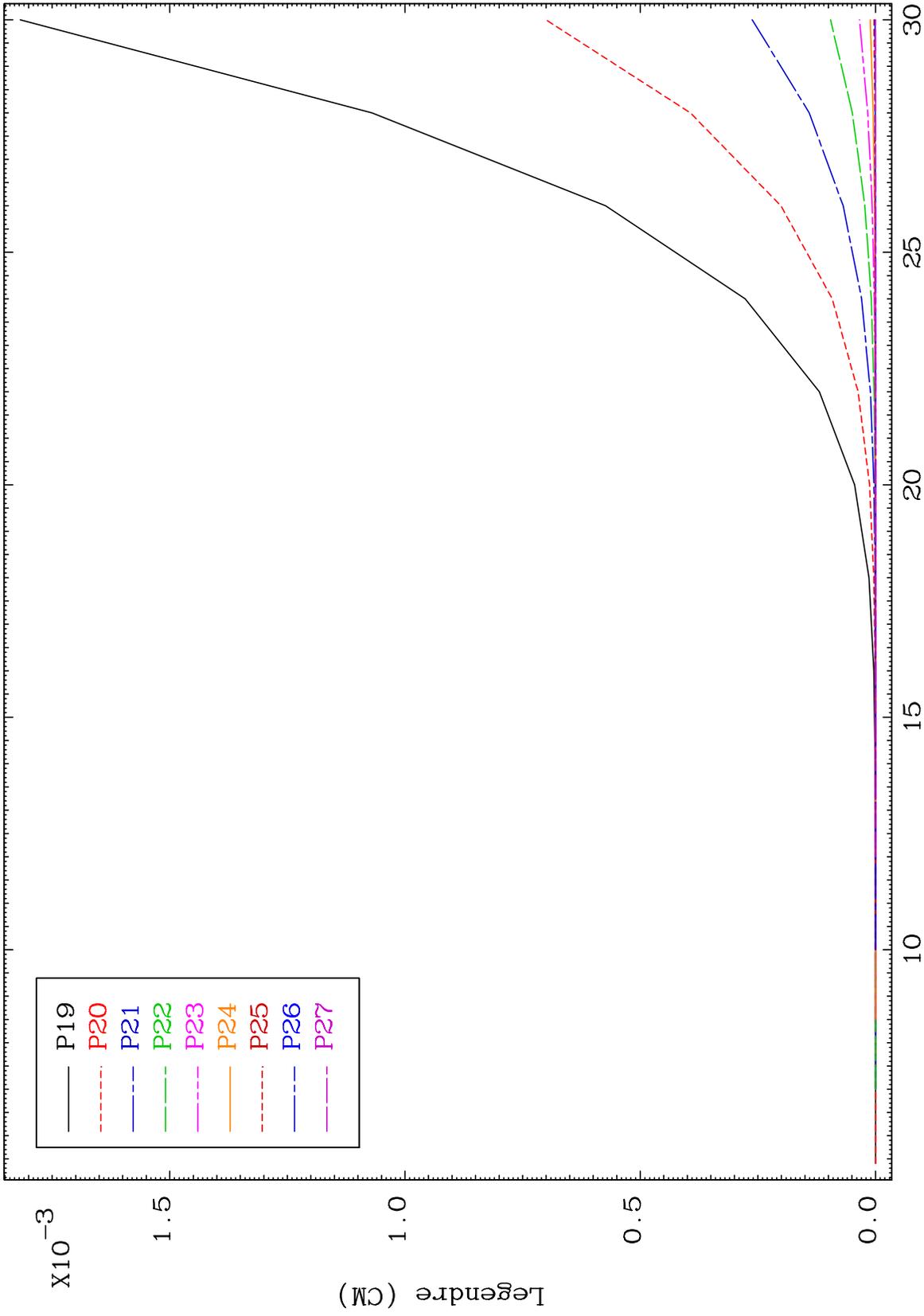
Incident Energy (MeV)

37-Rb-87

MAT 3731

Elastic Legendre Coefficients

37-Rb-87



17

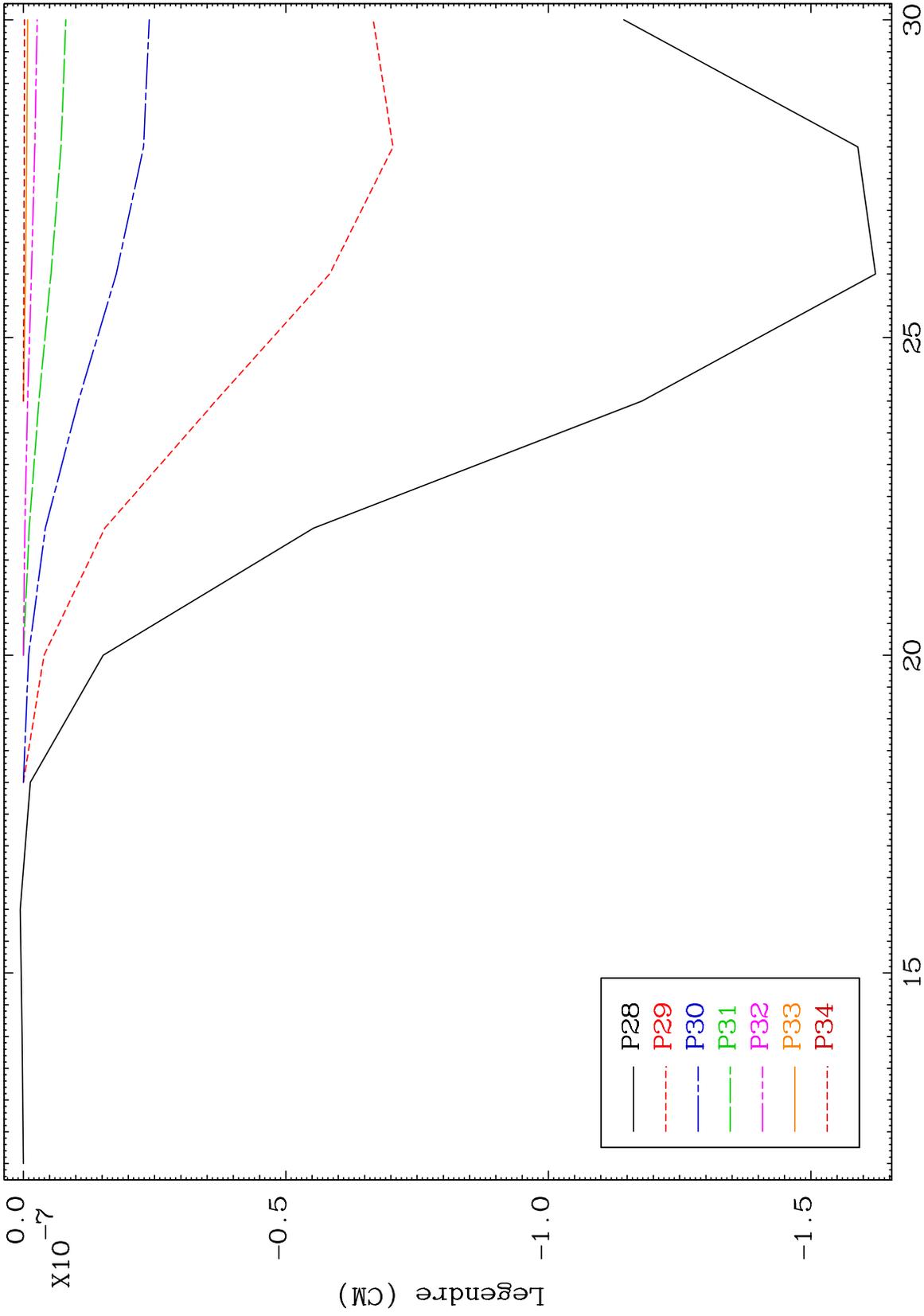
Incident Energy (MeV)

37-Rb-87

MAT 3731

37-Rb-87

Elastic Legendre Coefficients



18

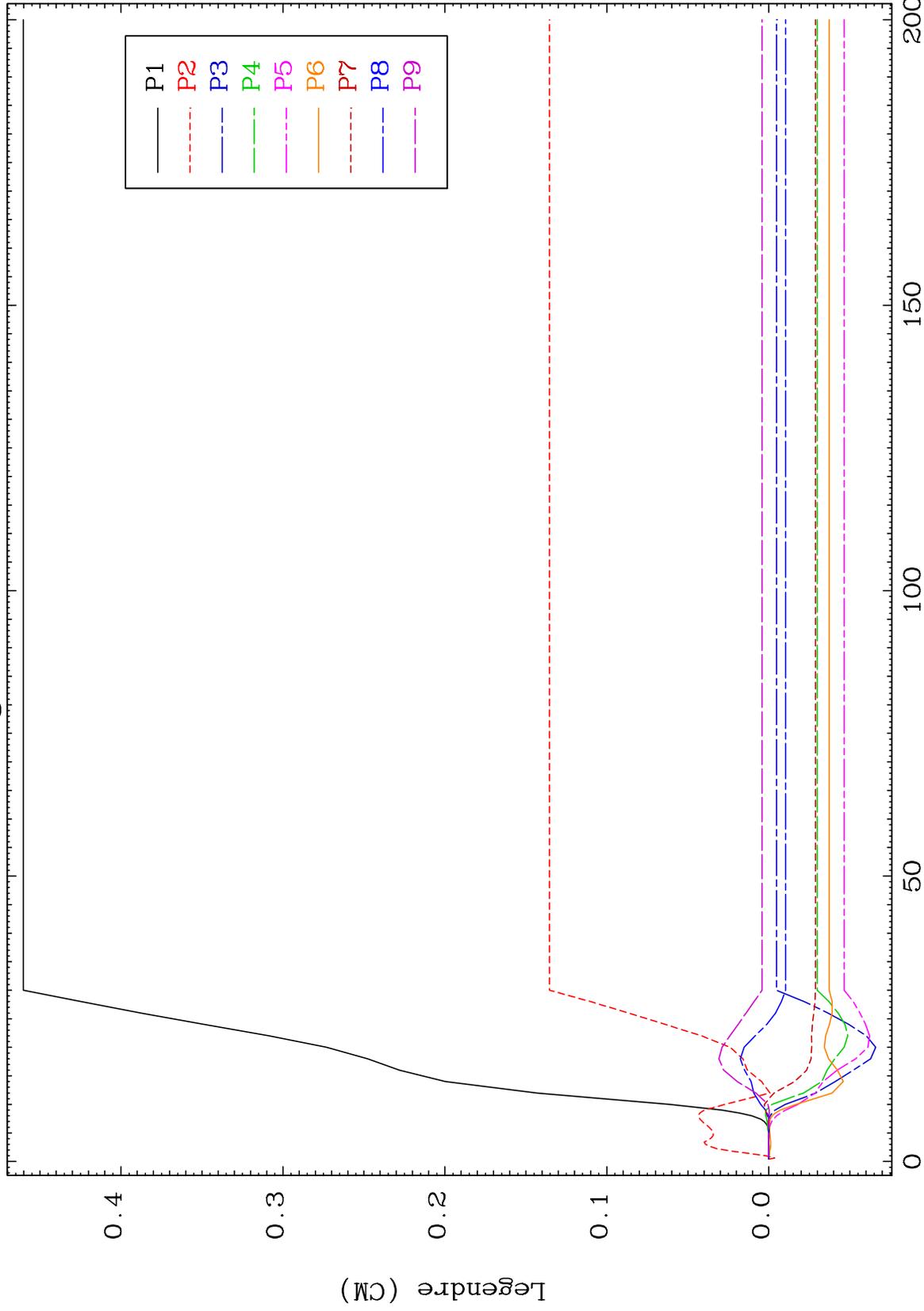
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



19

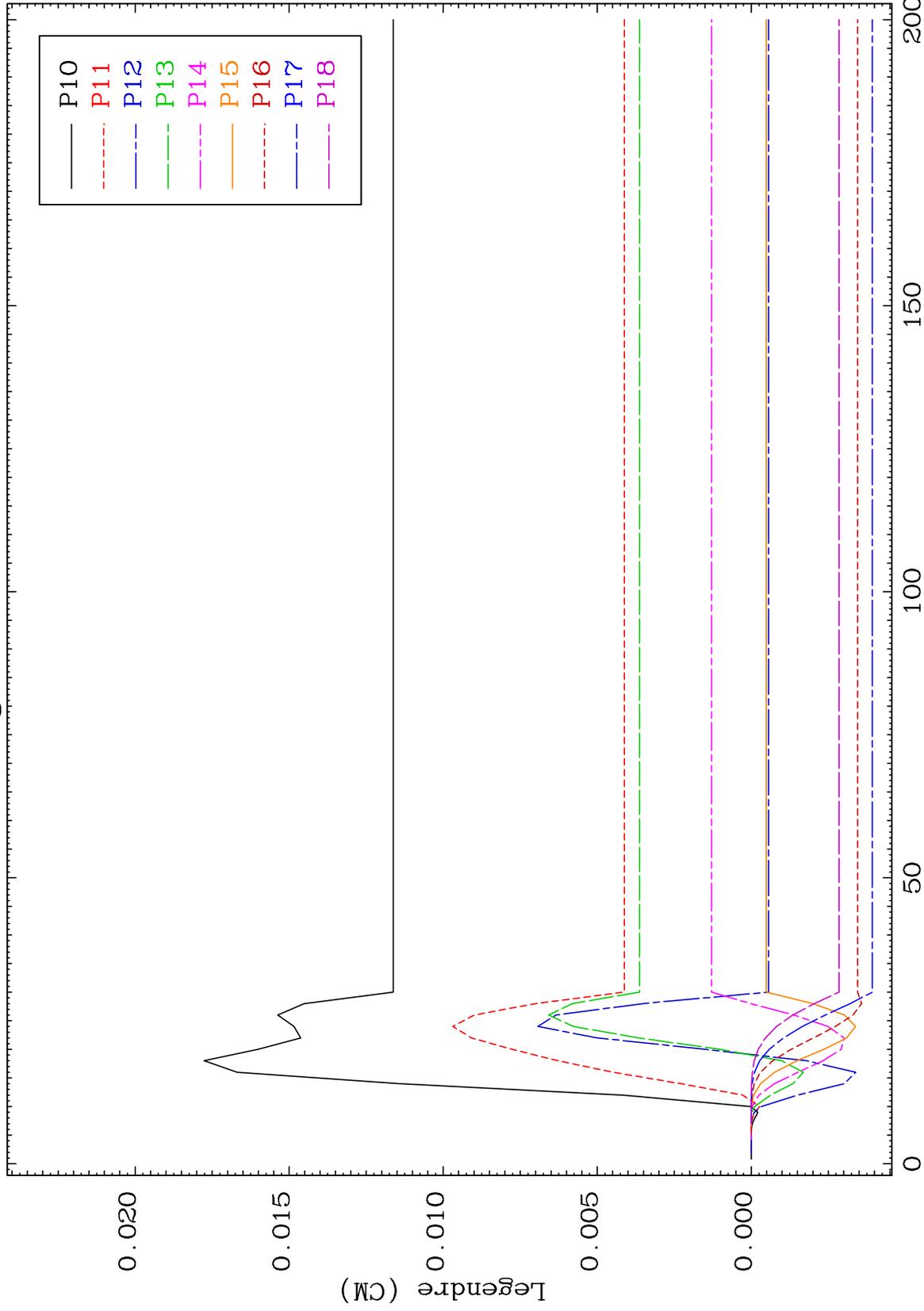
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

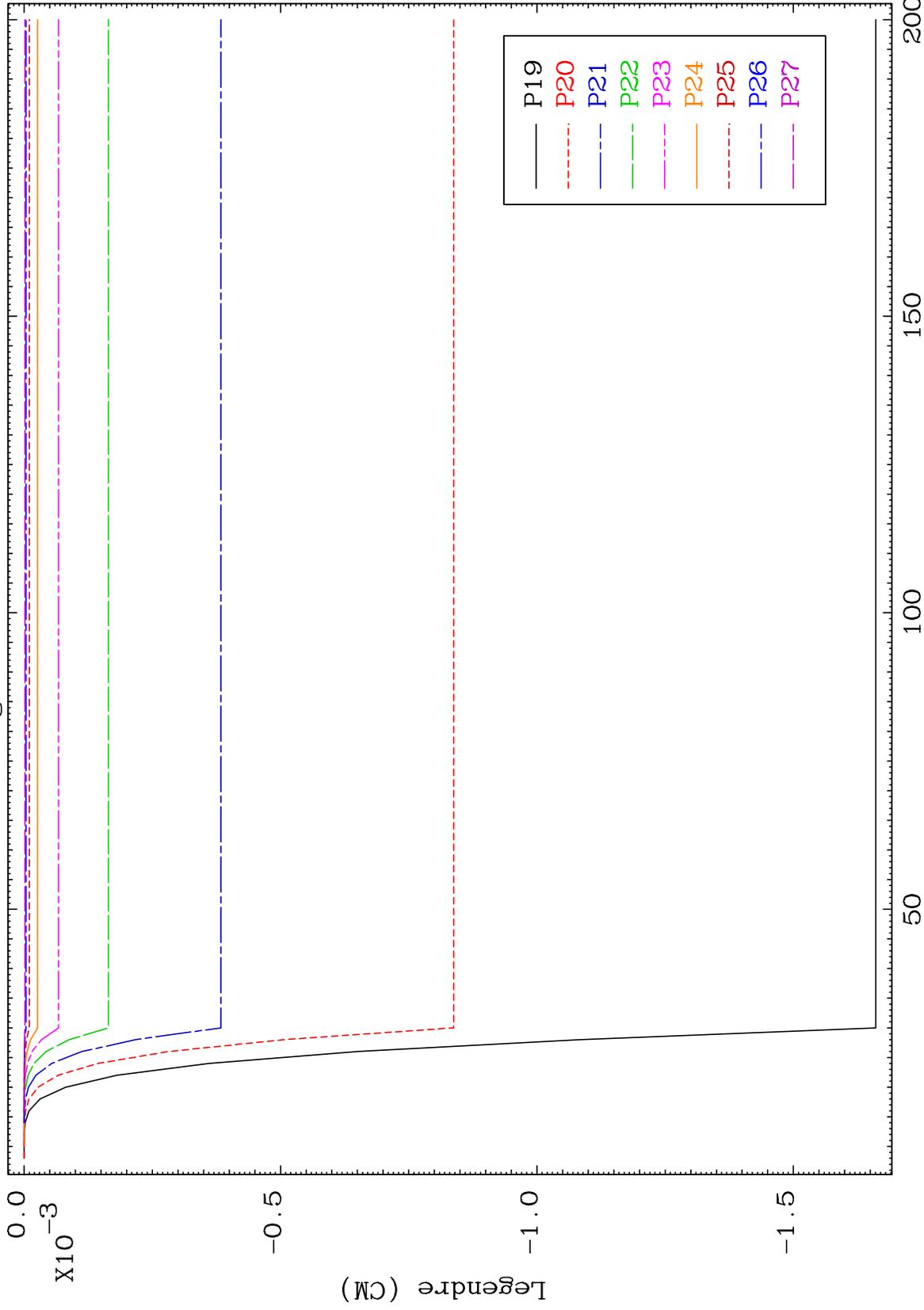
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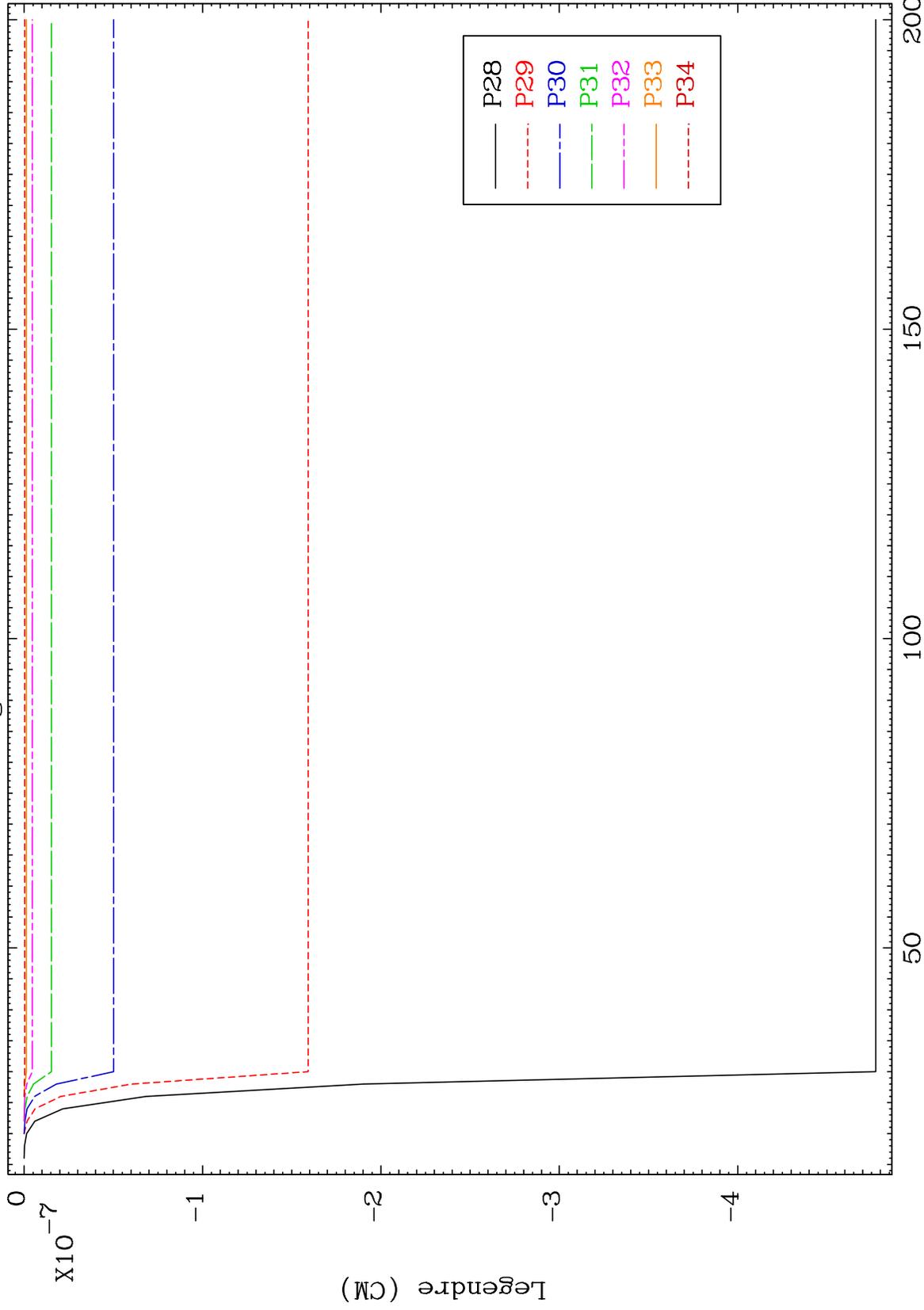


37-Rb-87

Incident Energy (MeV)

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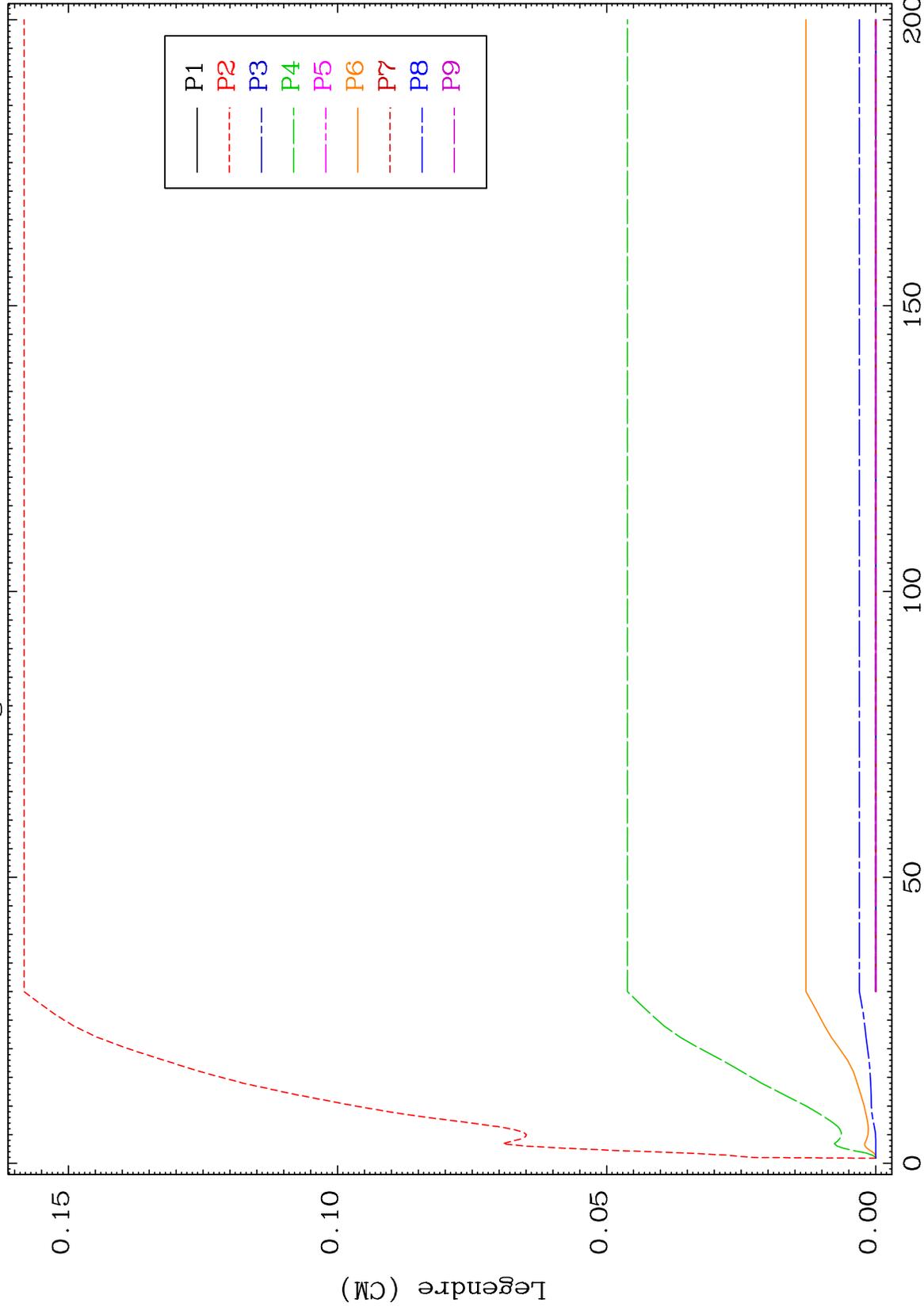




MAT 3731

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

37-Rb-87



23

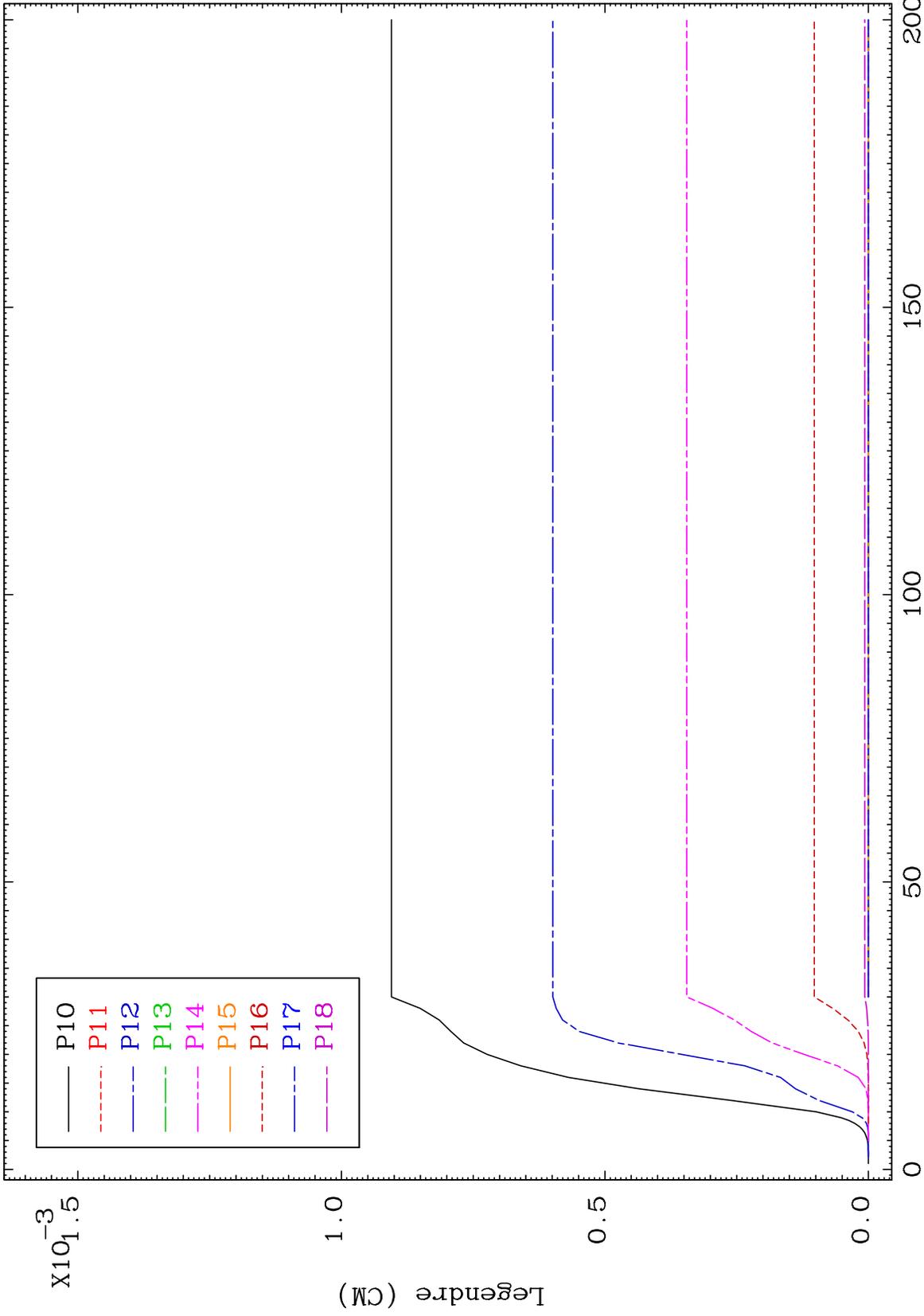
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



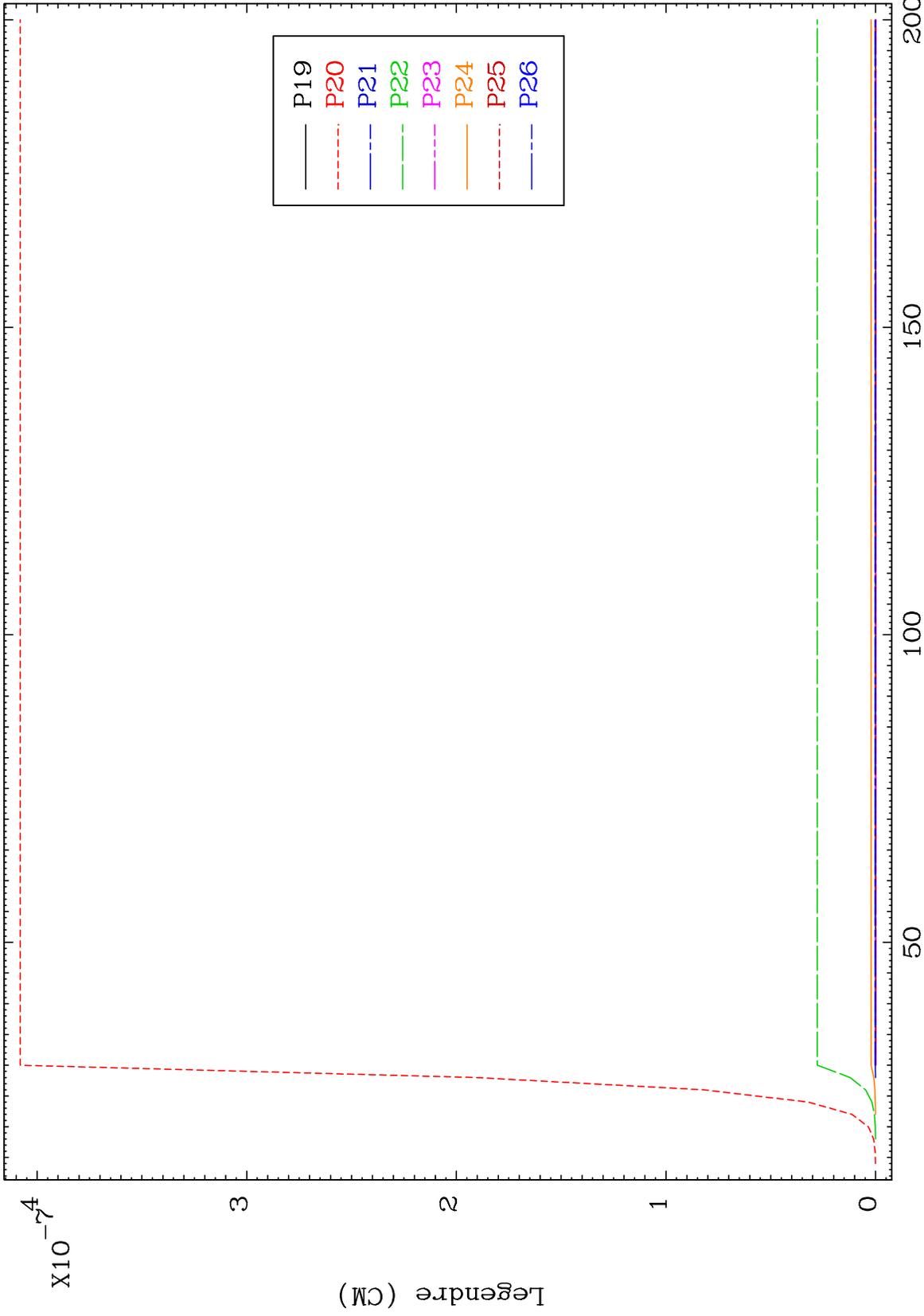
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37-Rb-87

MAT 3731

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

37-Rb-87



25

Incident Energy (MeV)

50

100

150

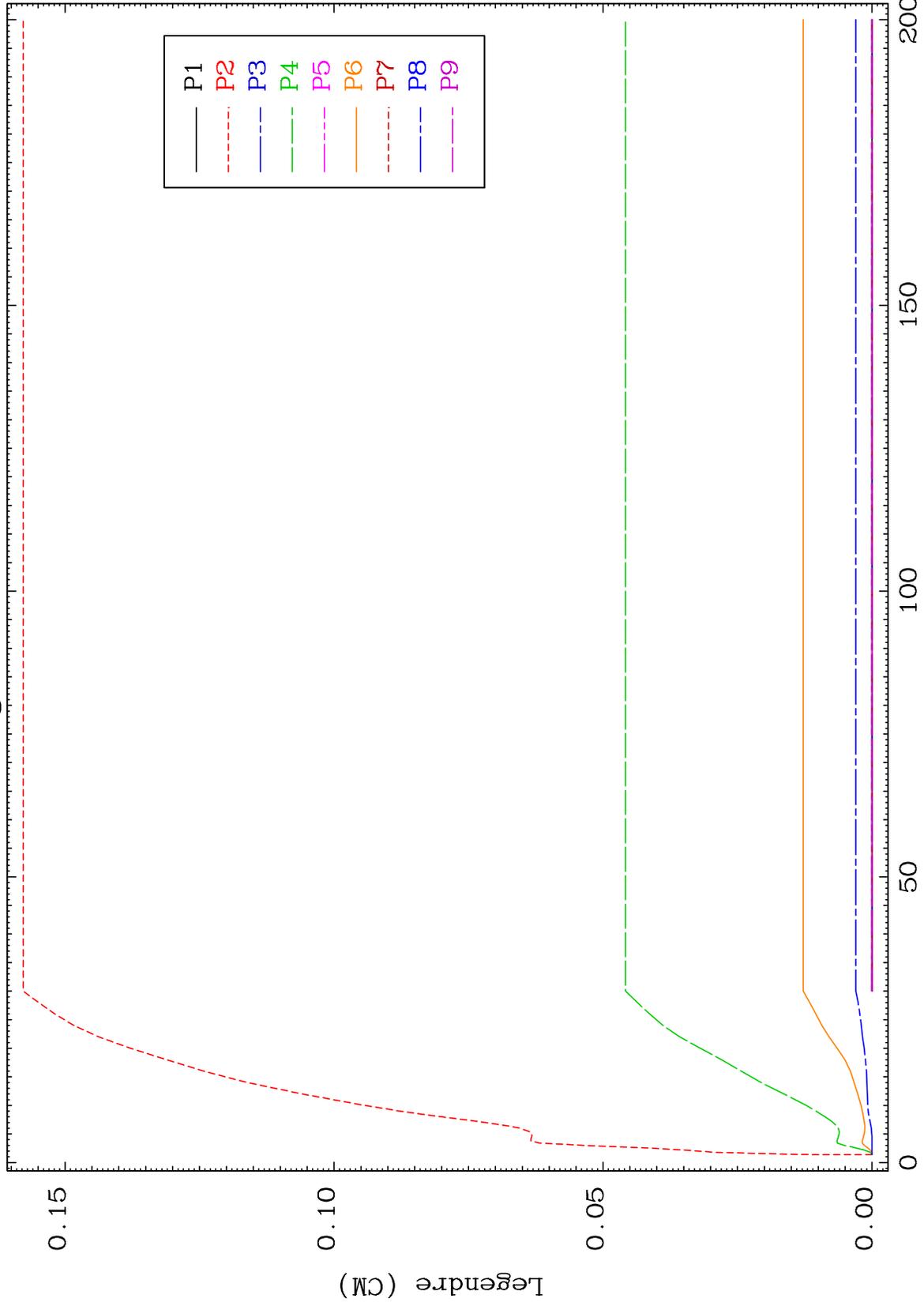
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37-Rb-87

MAT 3731

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

37-Rb-87



26

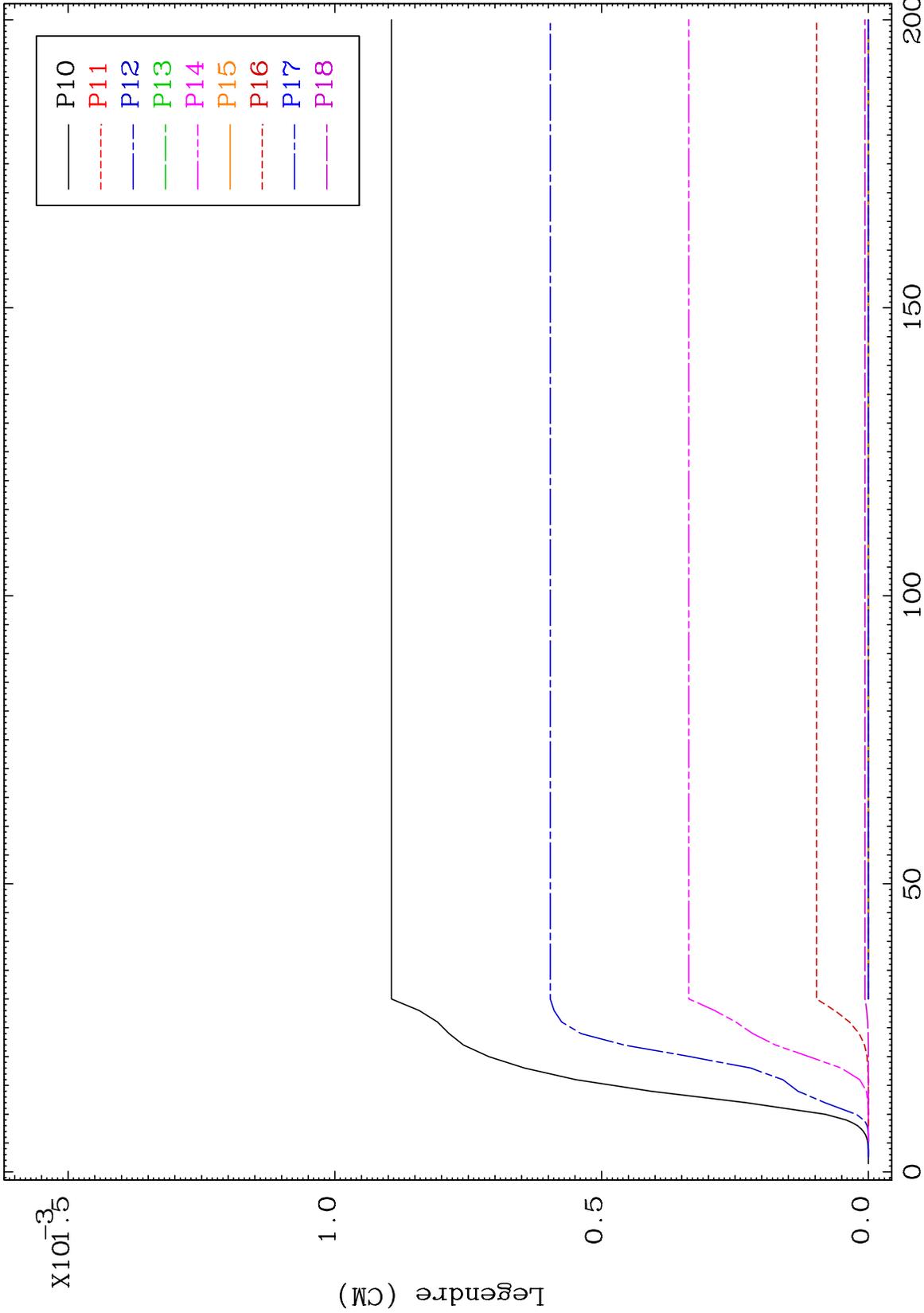
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



27

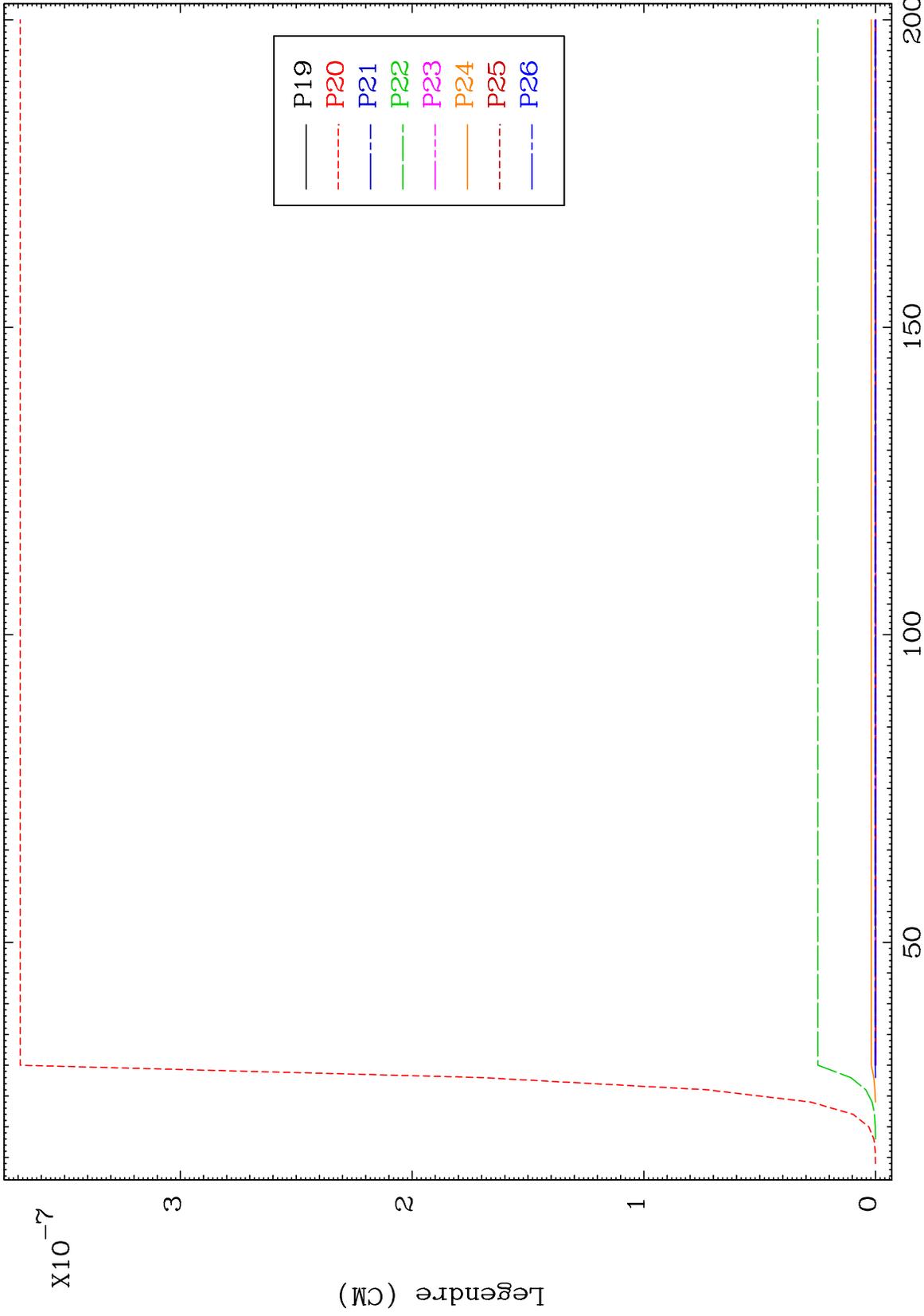
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



28

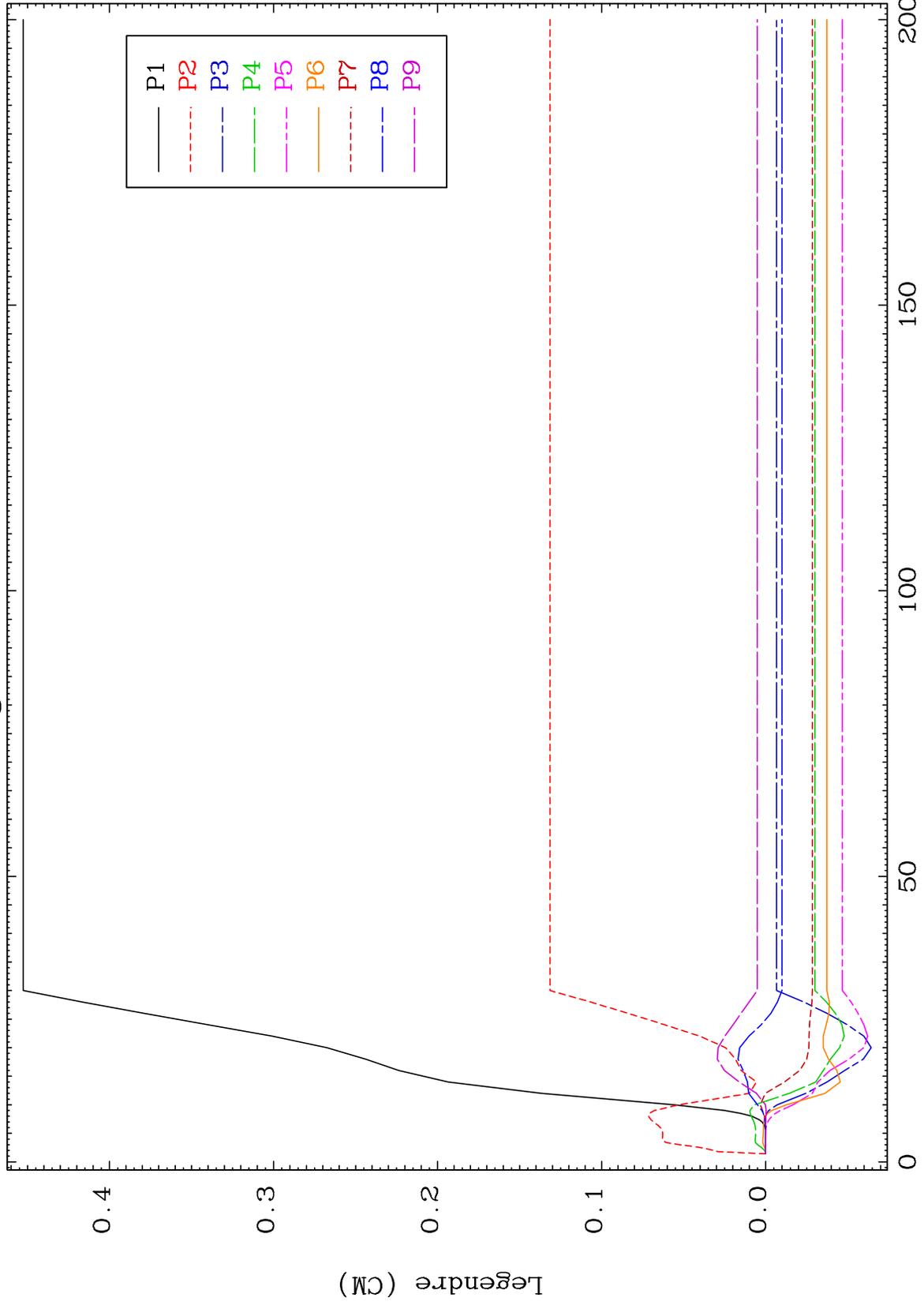
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



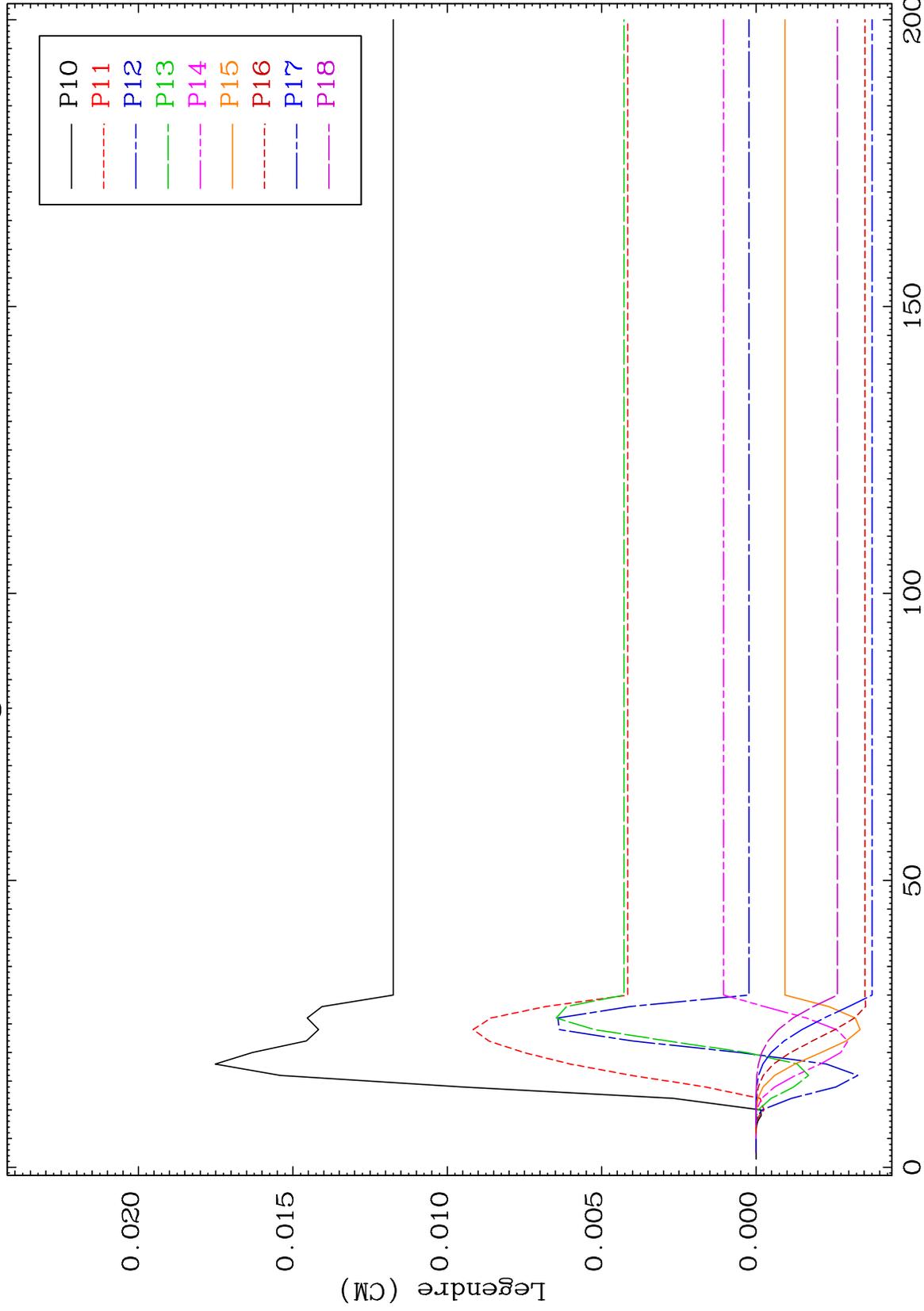
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37-Rb-87

MAT 3731

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

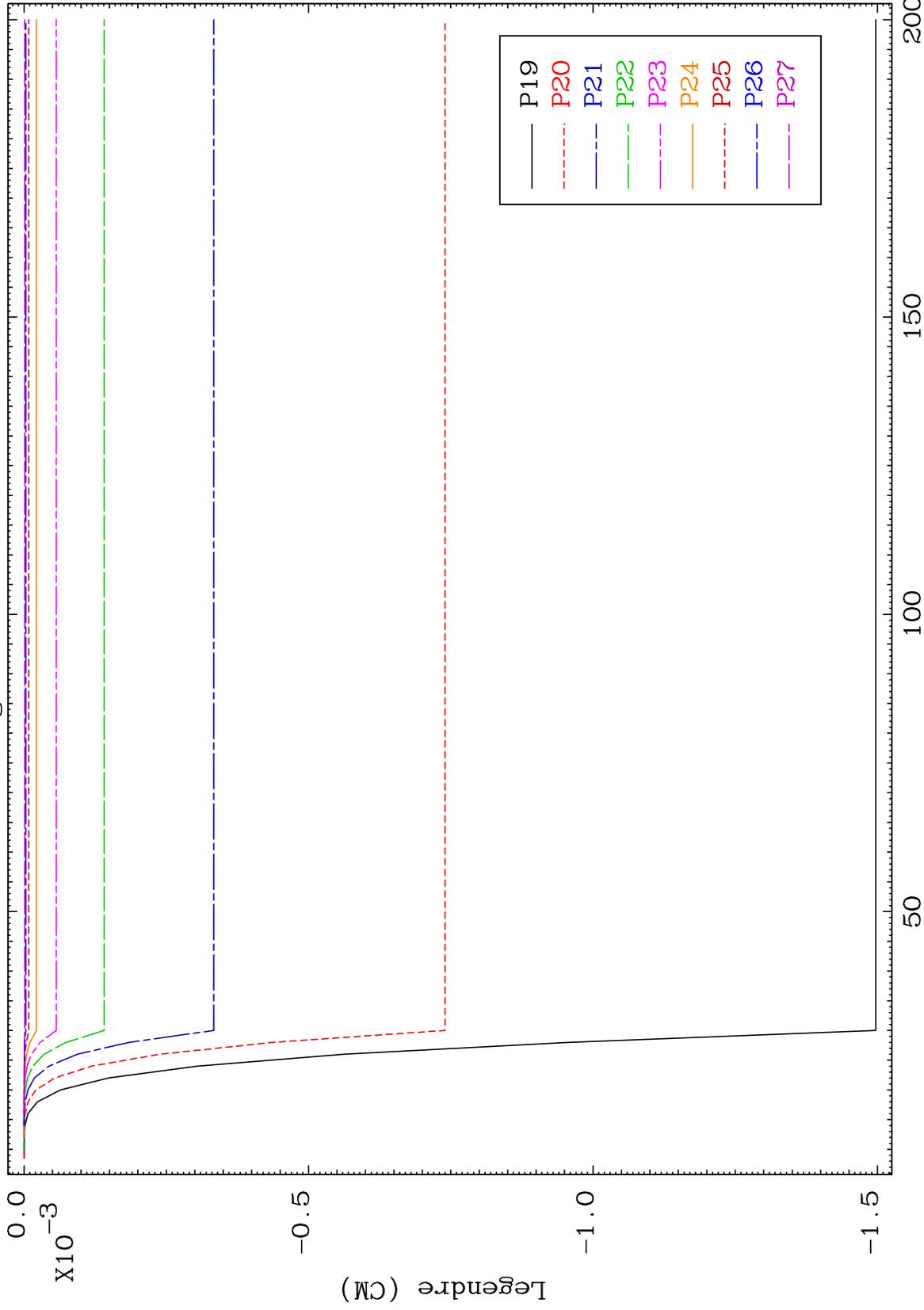
37-Rb-87



30

Incident Energy (MeV)

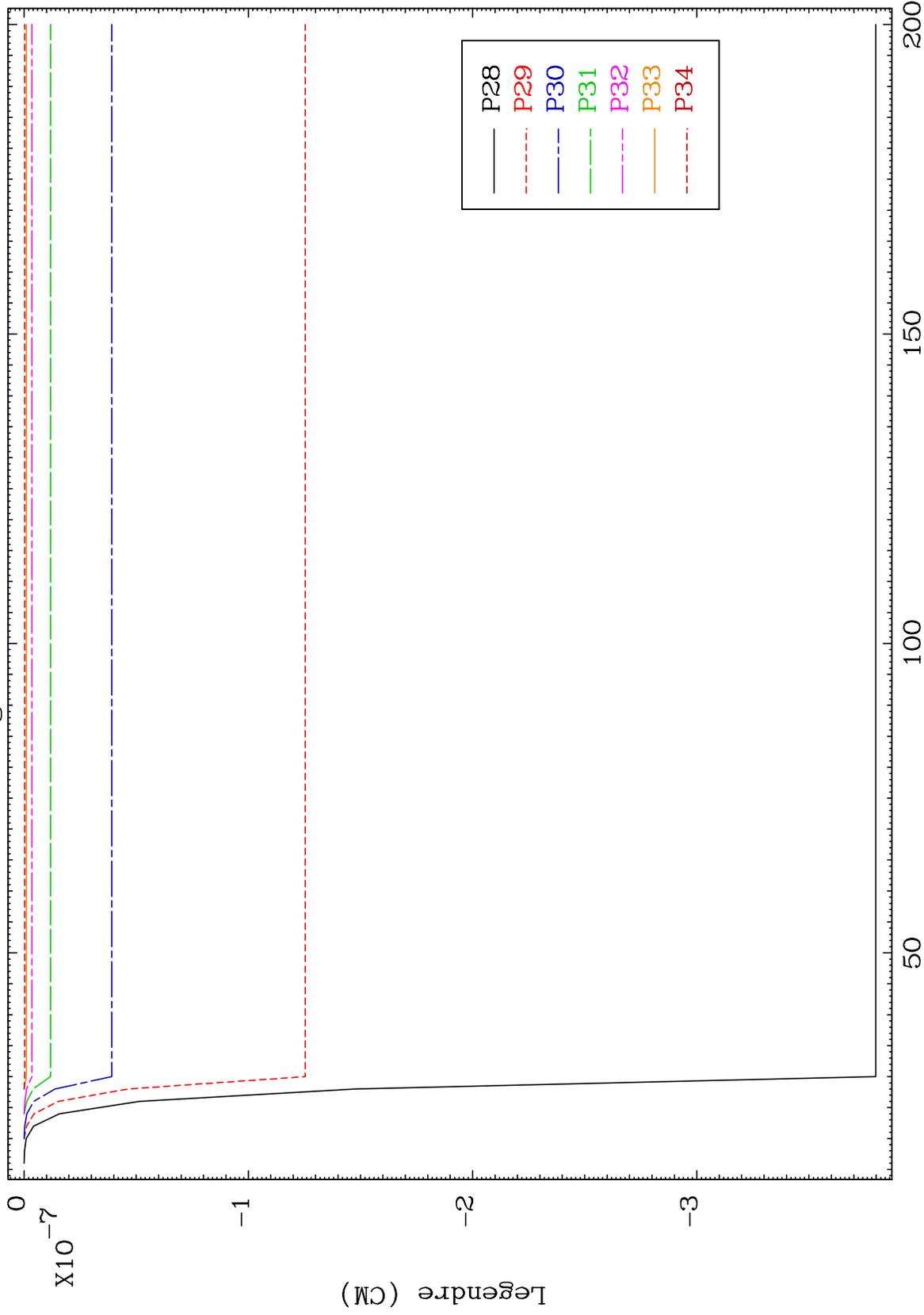
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MAT 3731

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

37-Rb-87



32

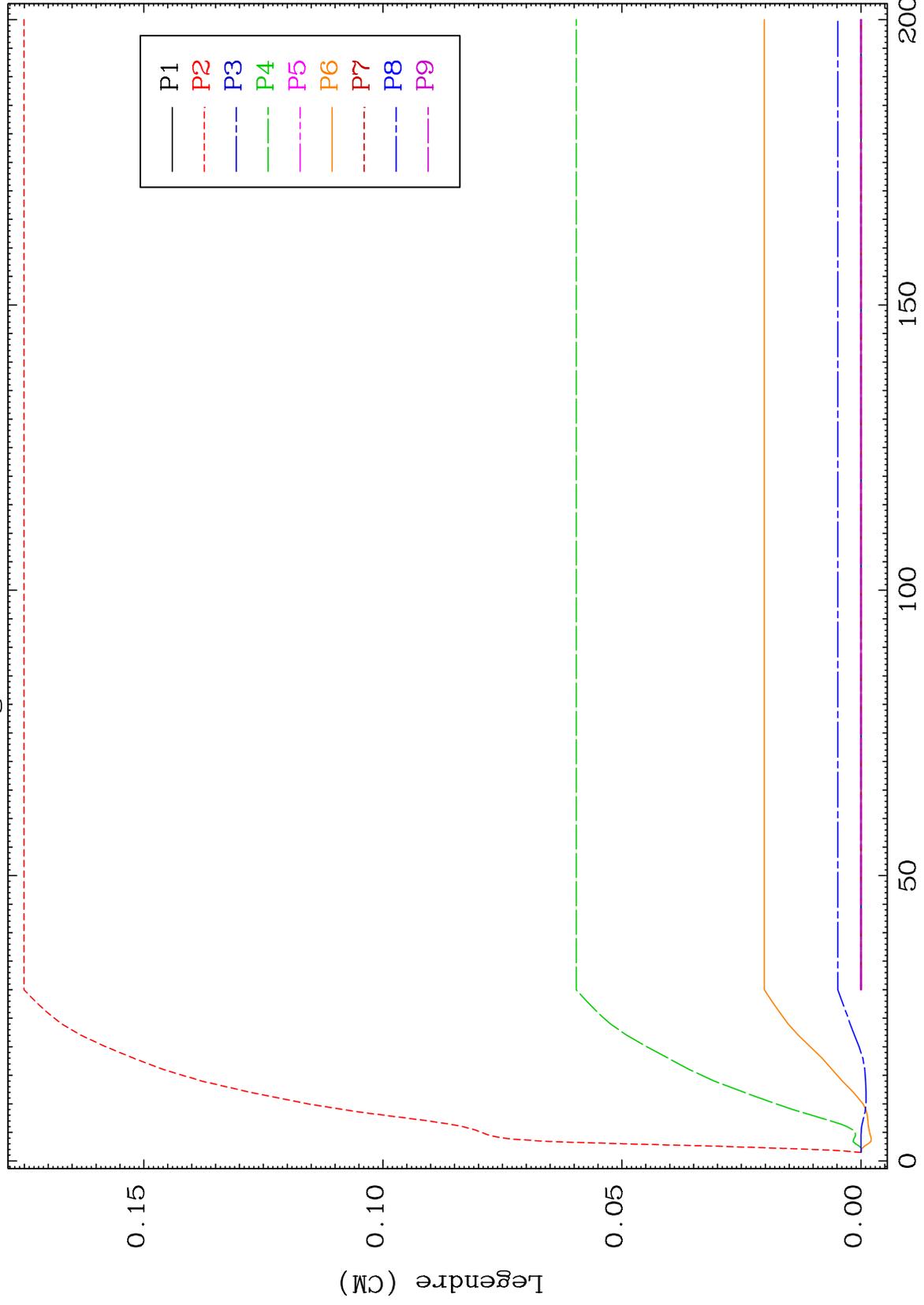
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



33

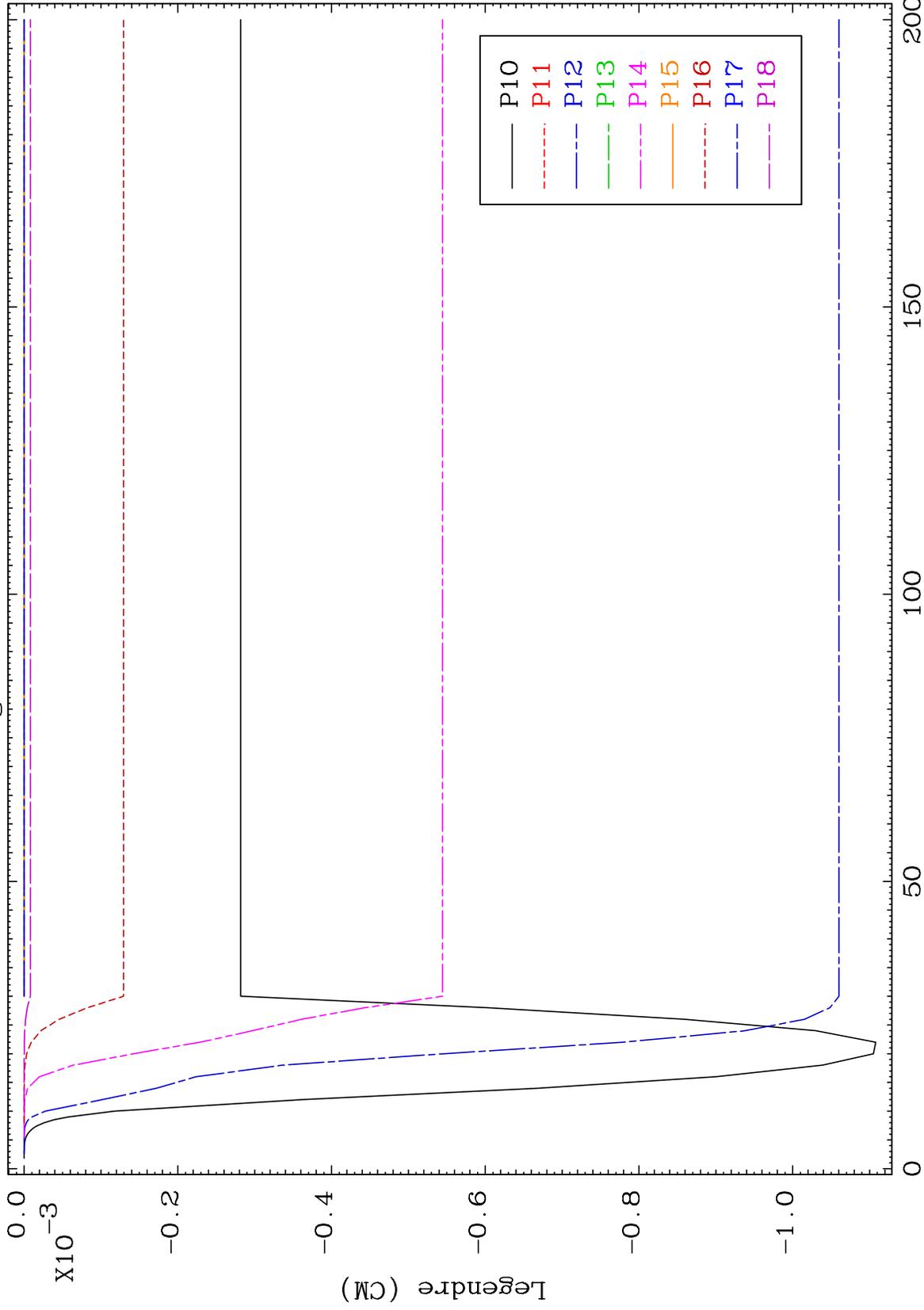
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



34

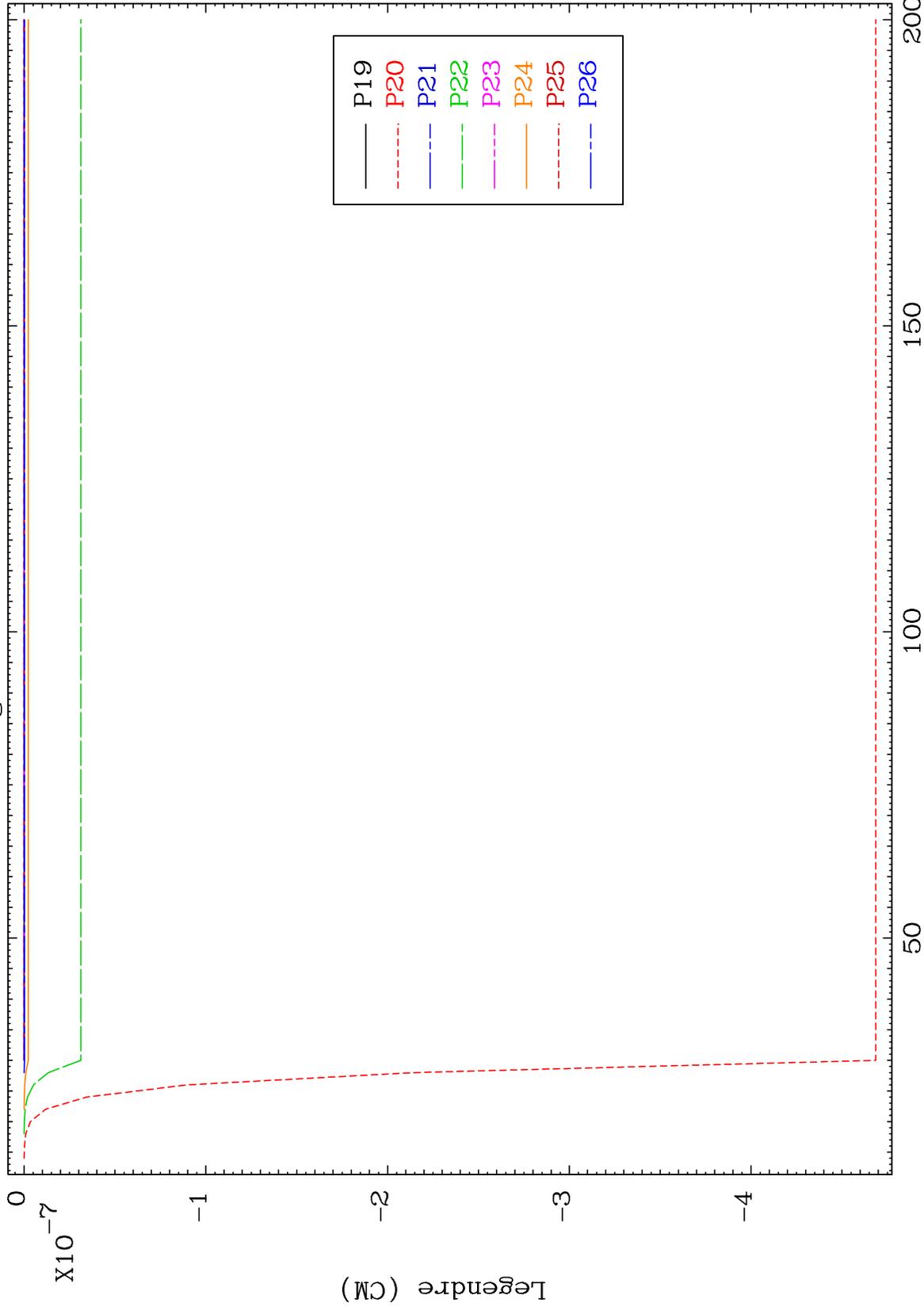
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



35

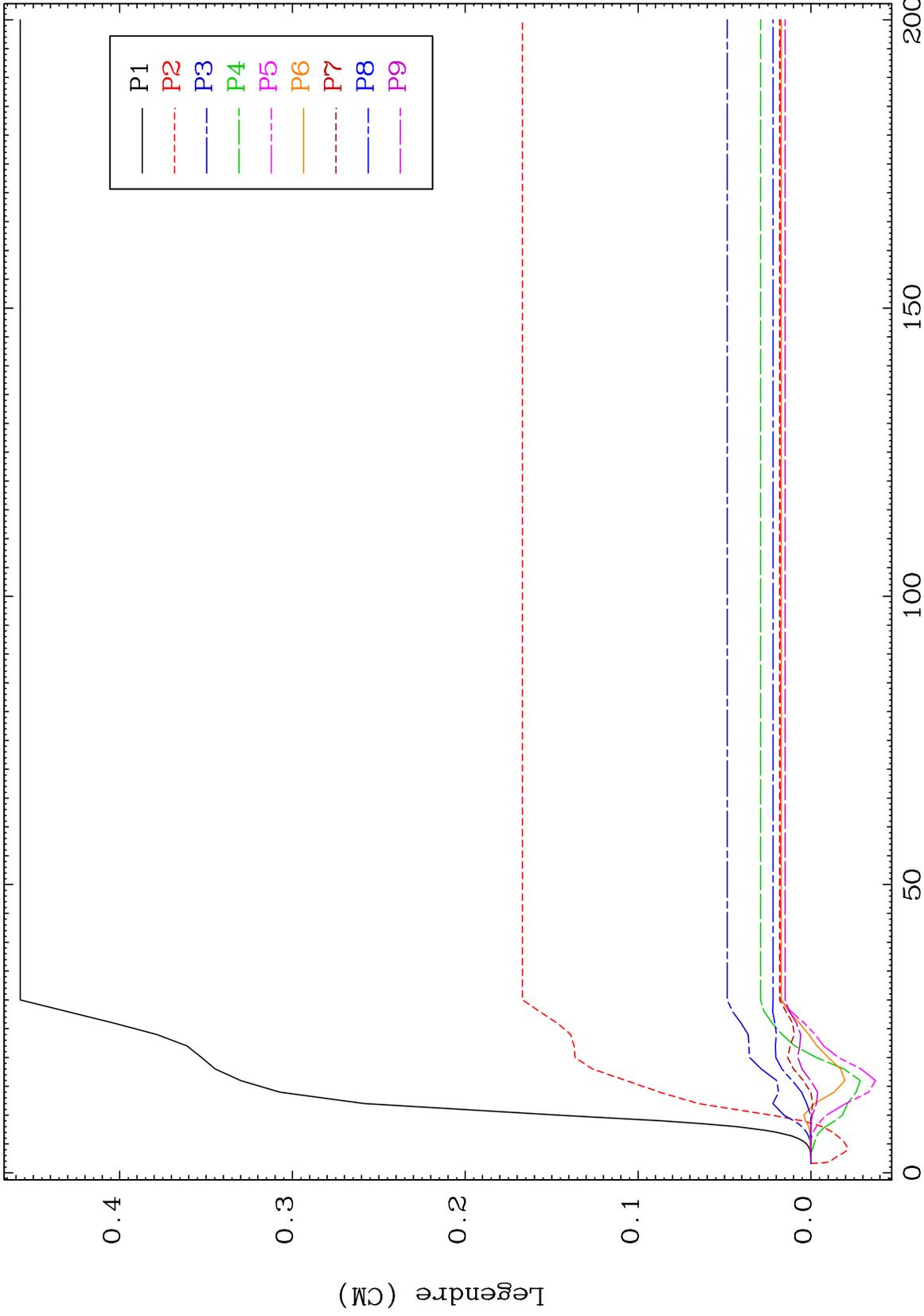
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



36

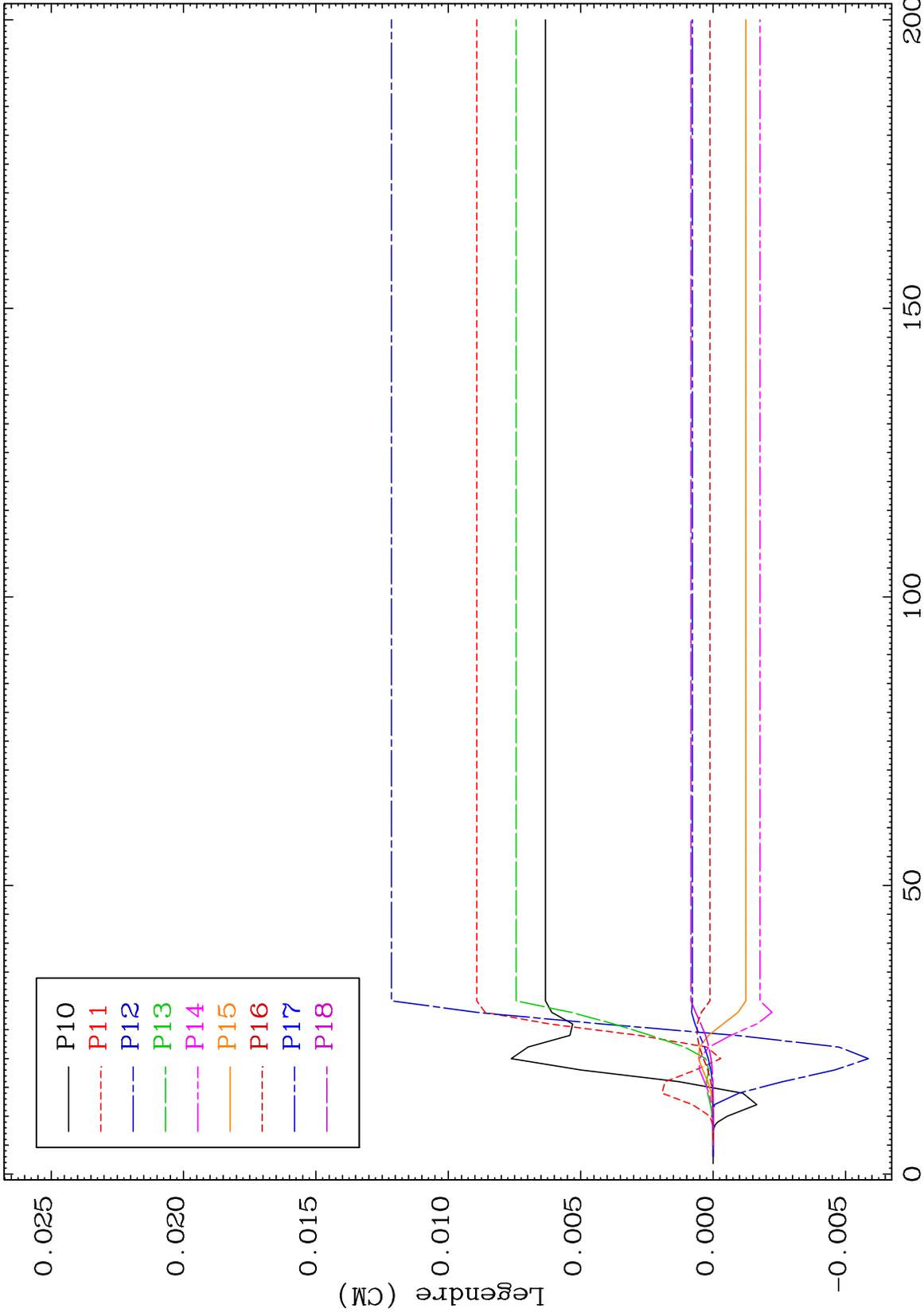
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



37

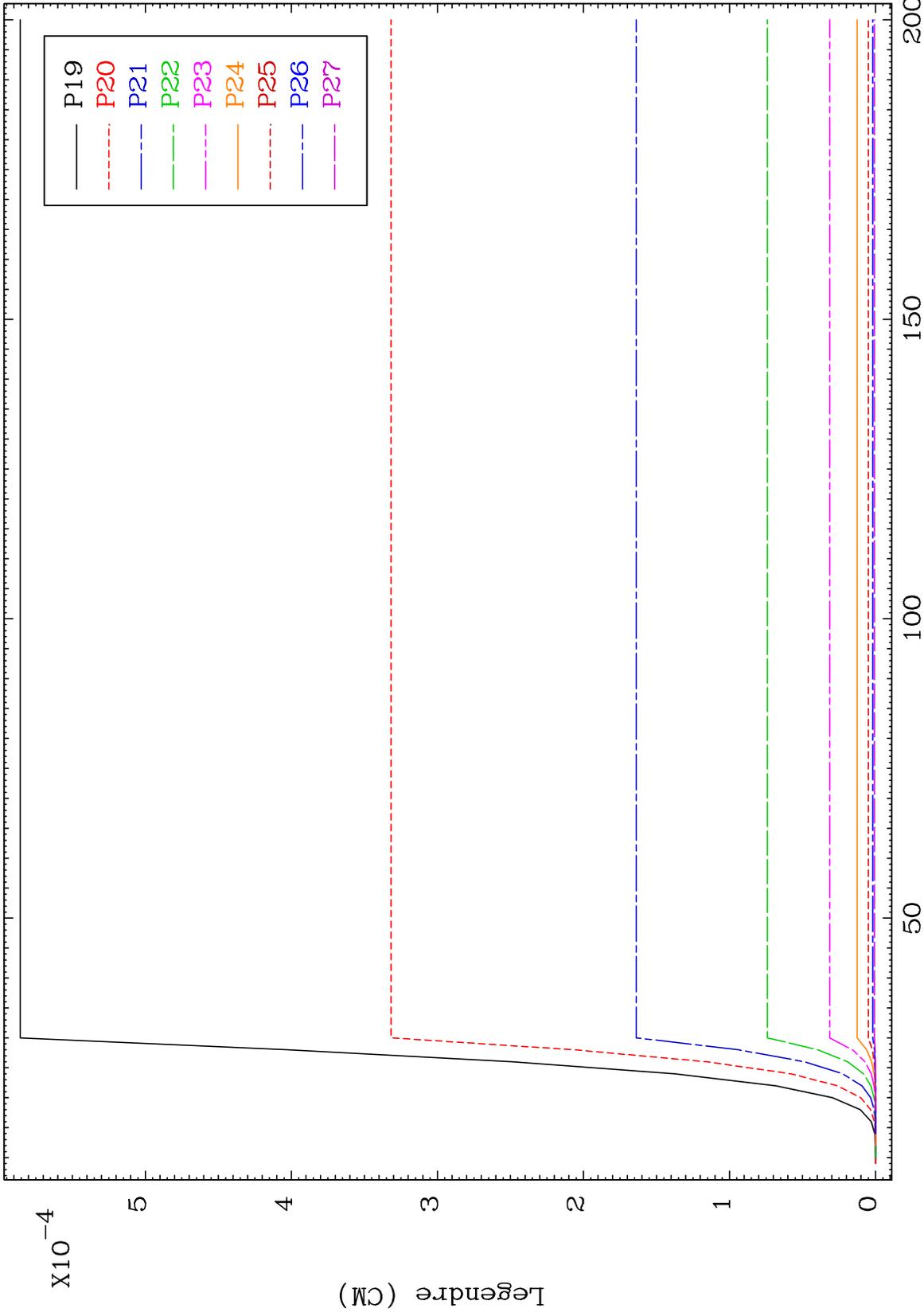
Incident Energy (MeV)

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MAT 3731

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

37-Rb-87



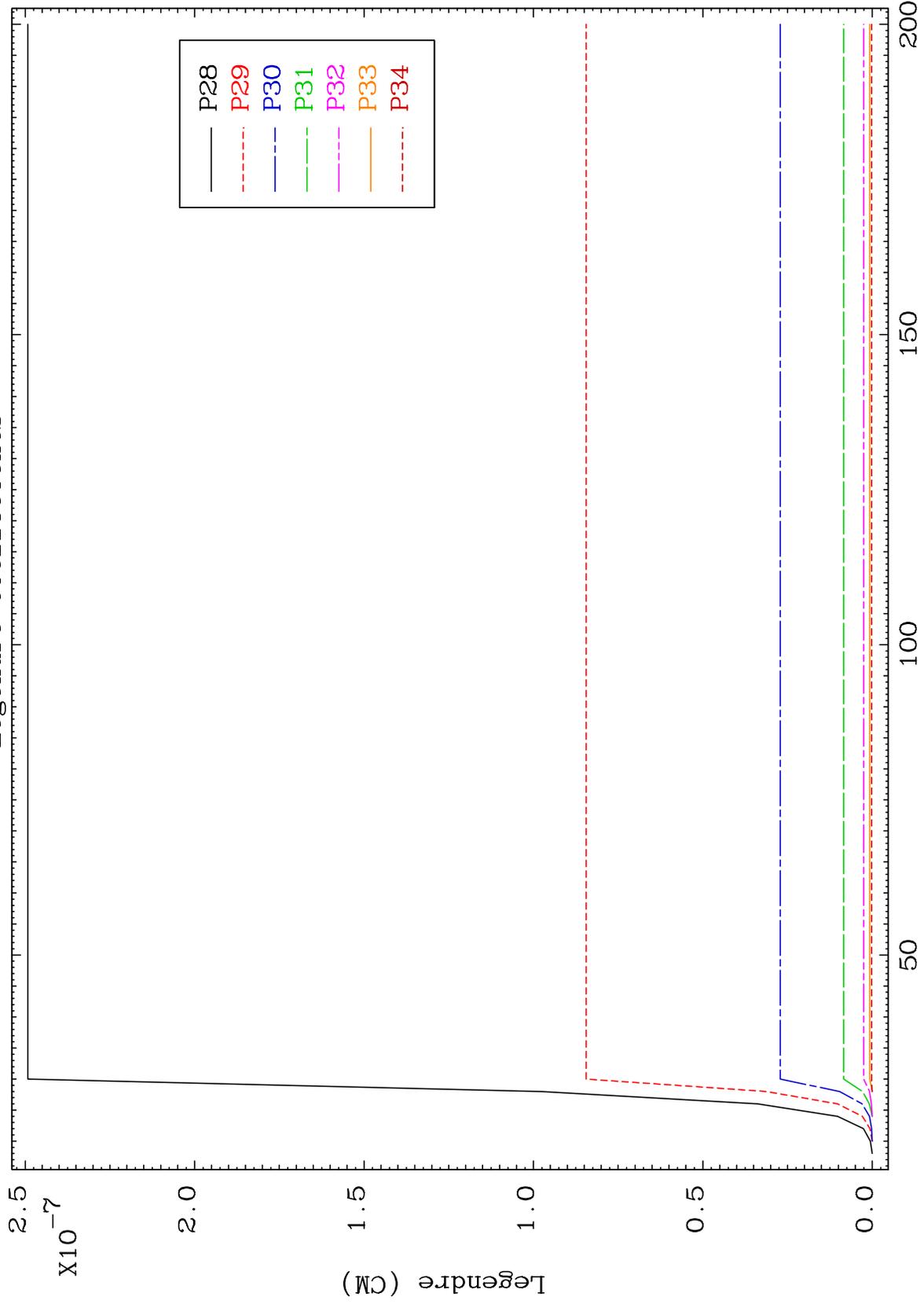
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37-Rb-87

MAT 3731

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

37-Rb-87



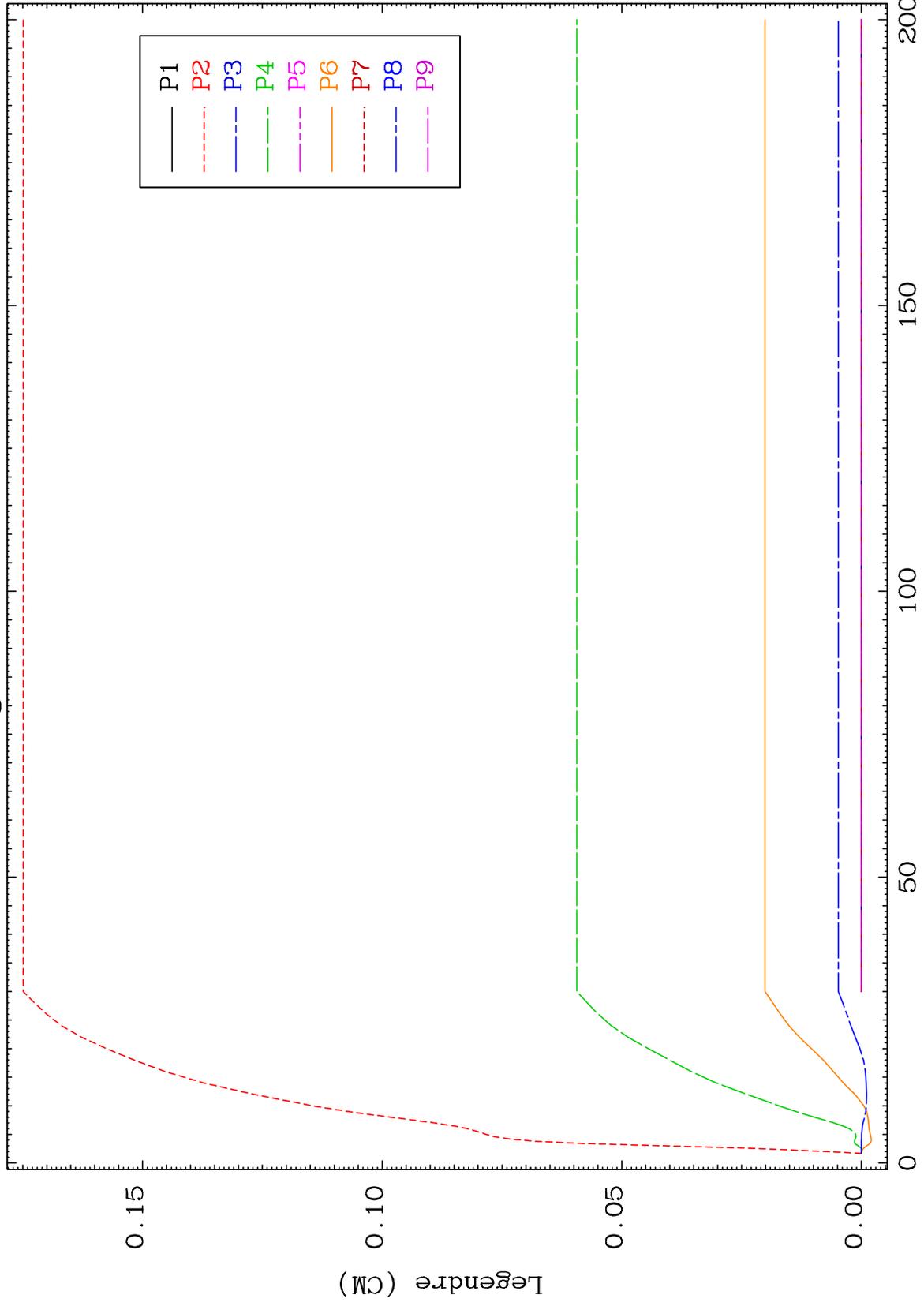
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MAT 3731

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

37-Rb-87



40

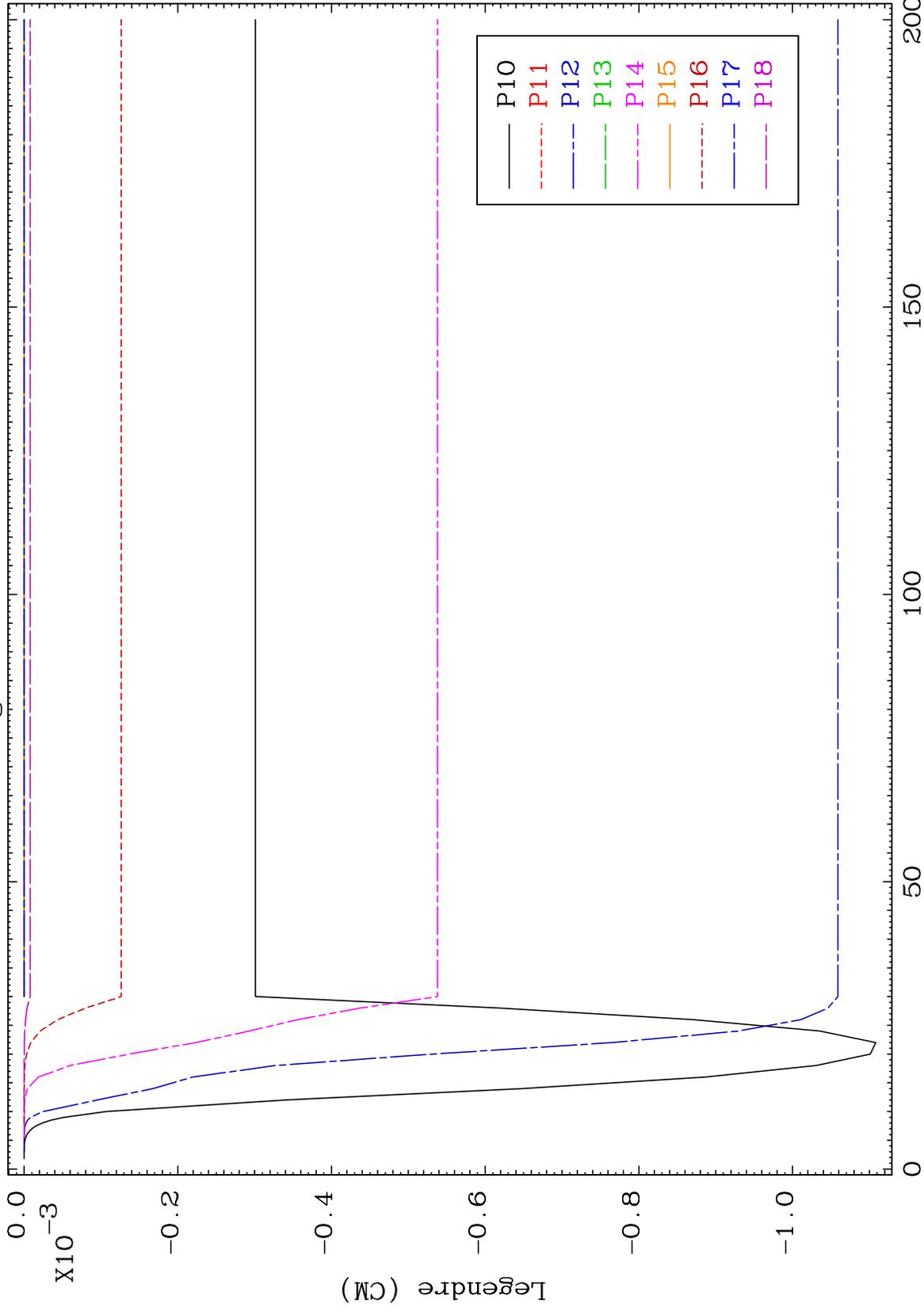
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



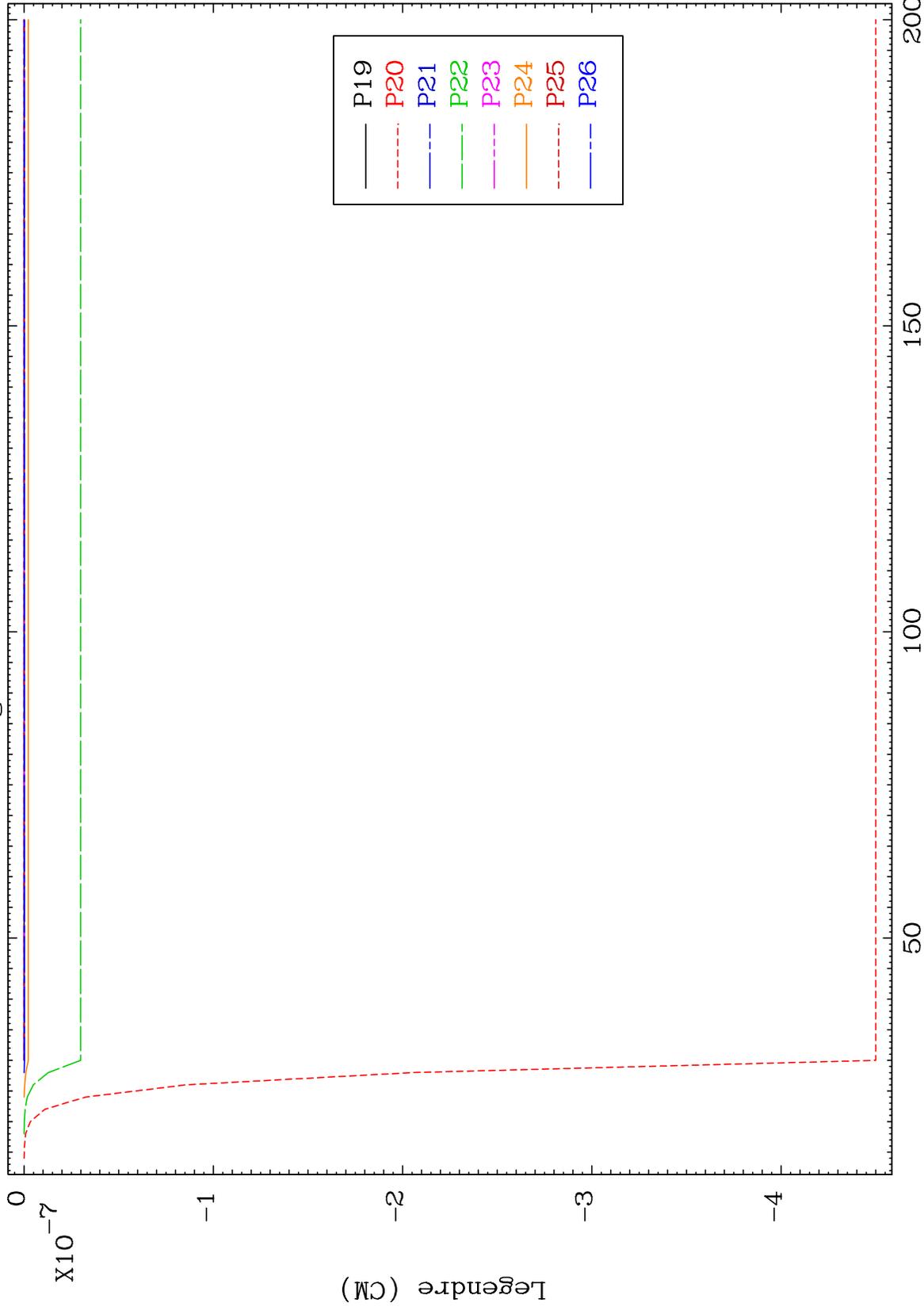
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MAT 3731

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

37-Rb-87



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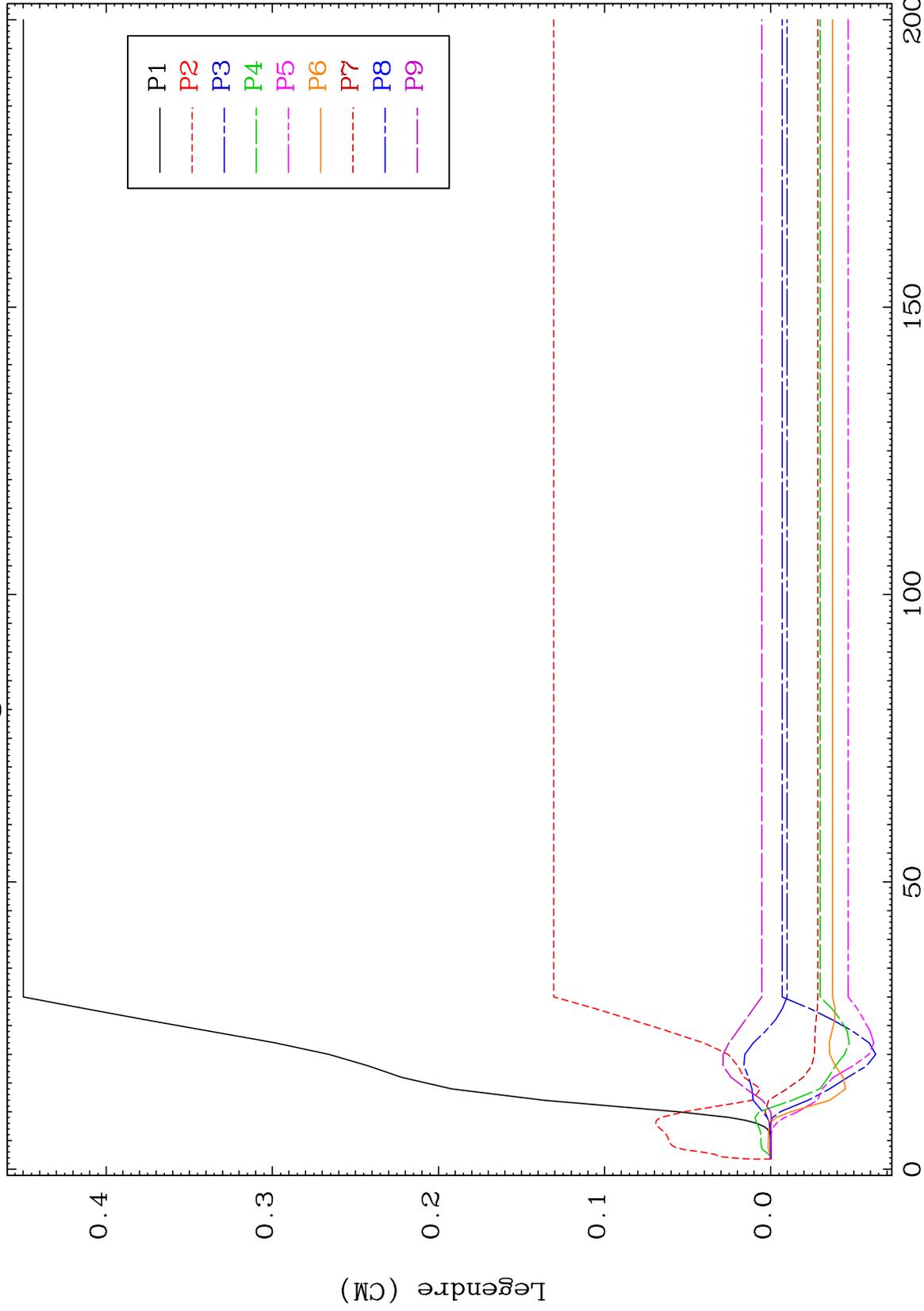
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



43

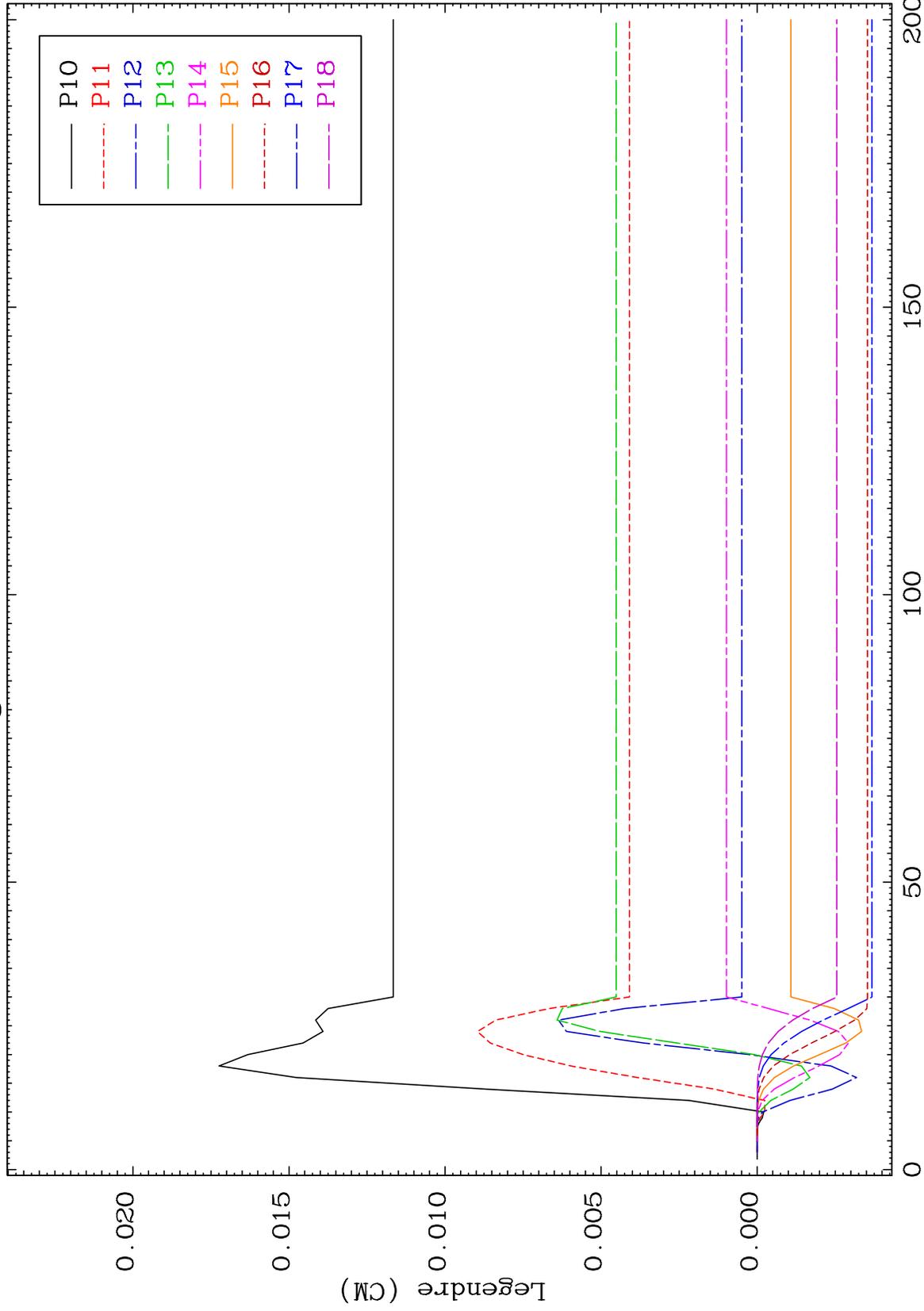
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



44

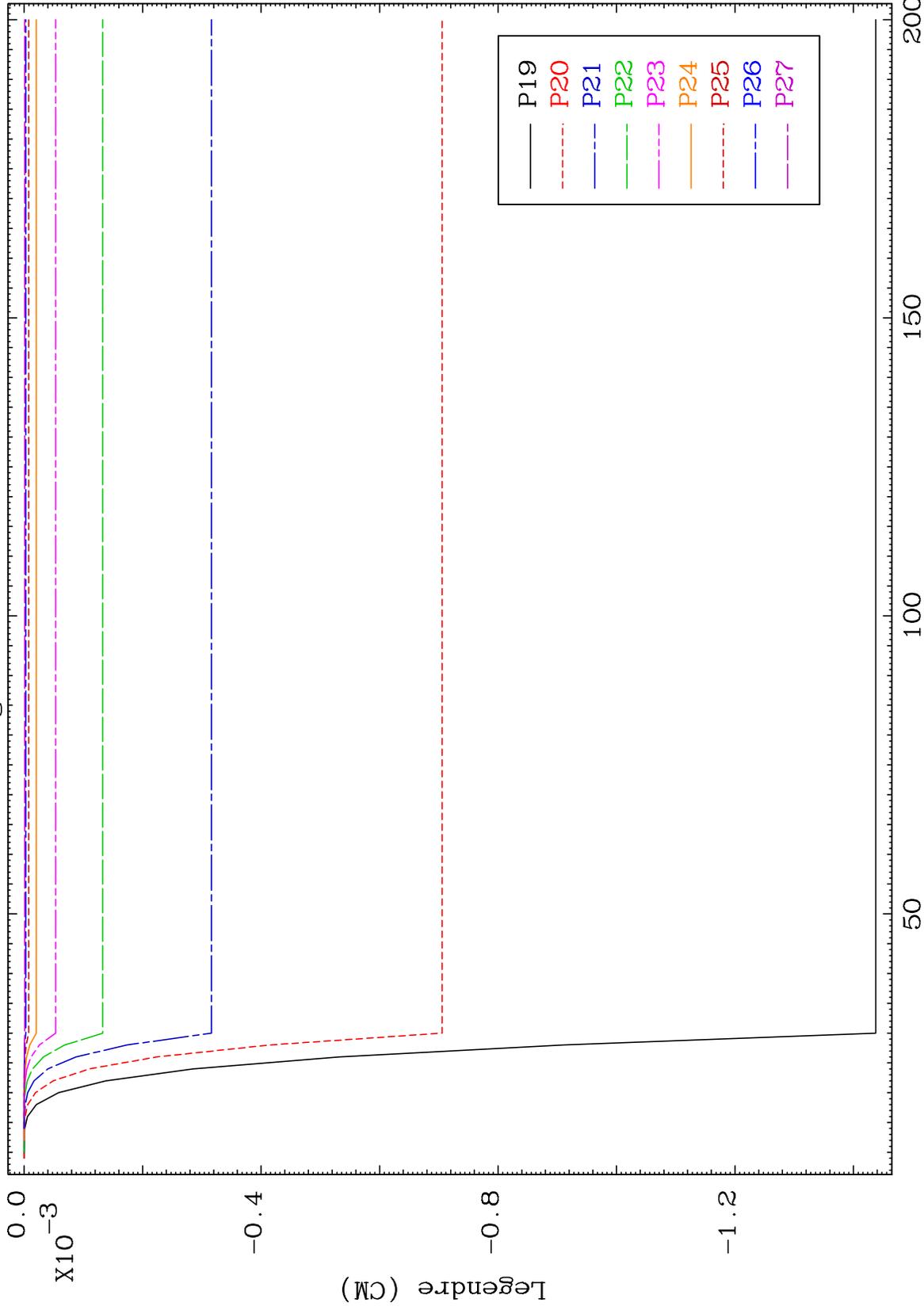
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



37-Rb-87

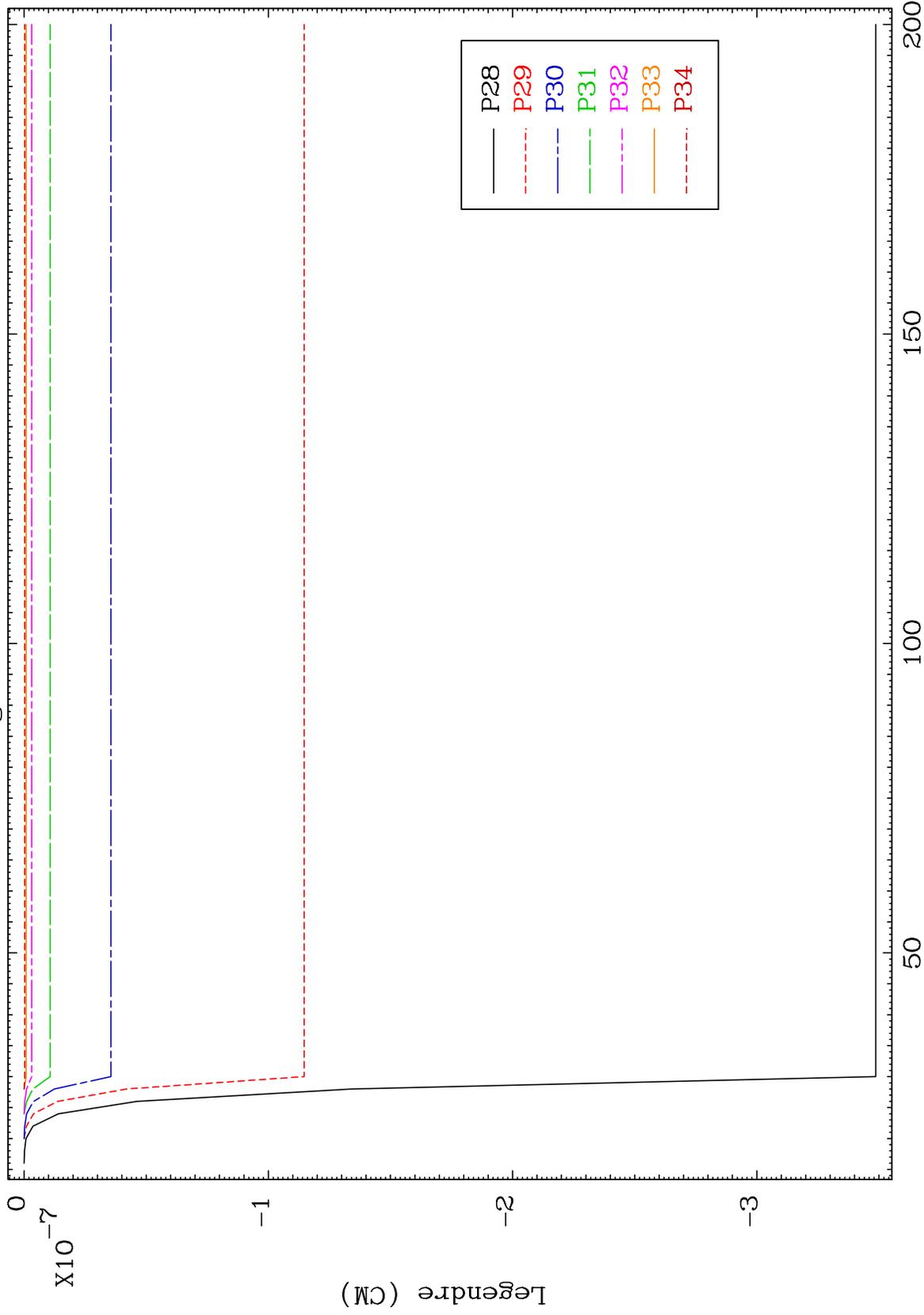
Incident Energy (MeV)

45

MAT 3731

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

37-Rb-87



46

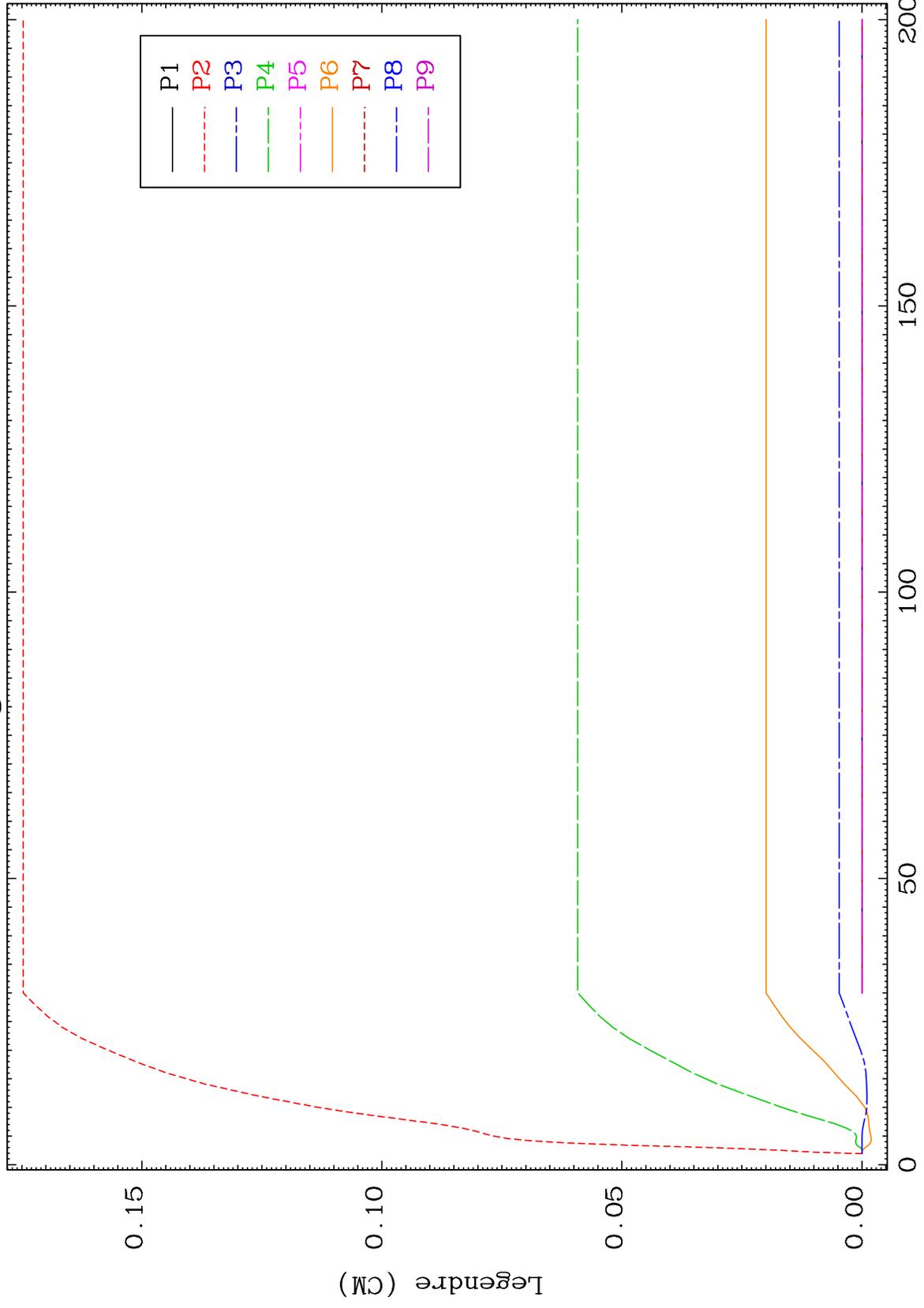
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



47

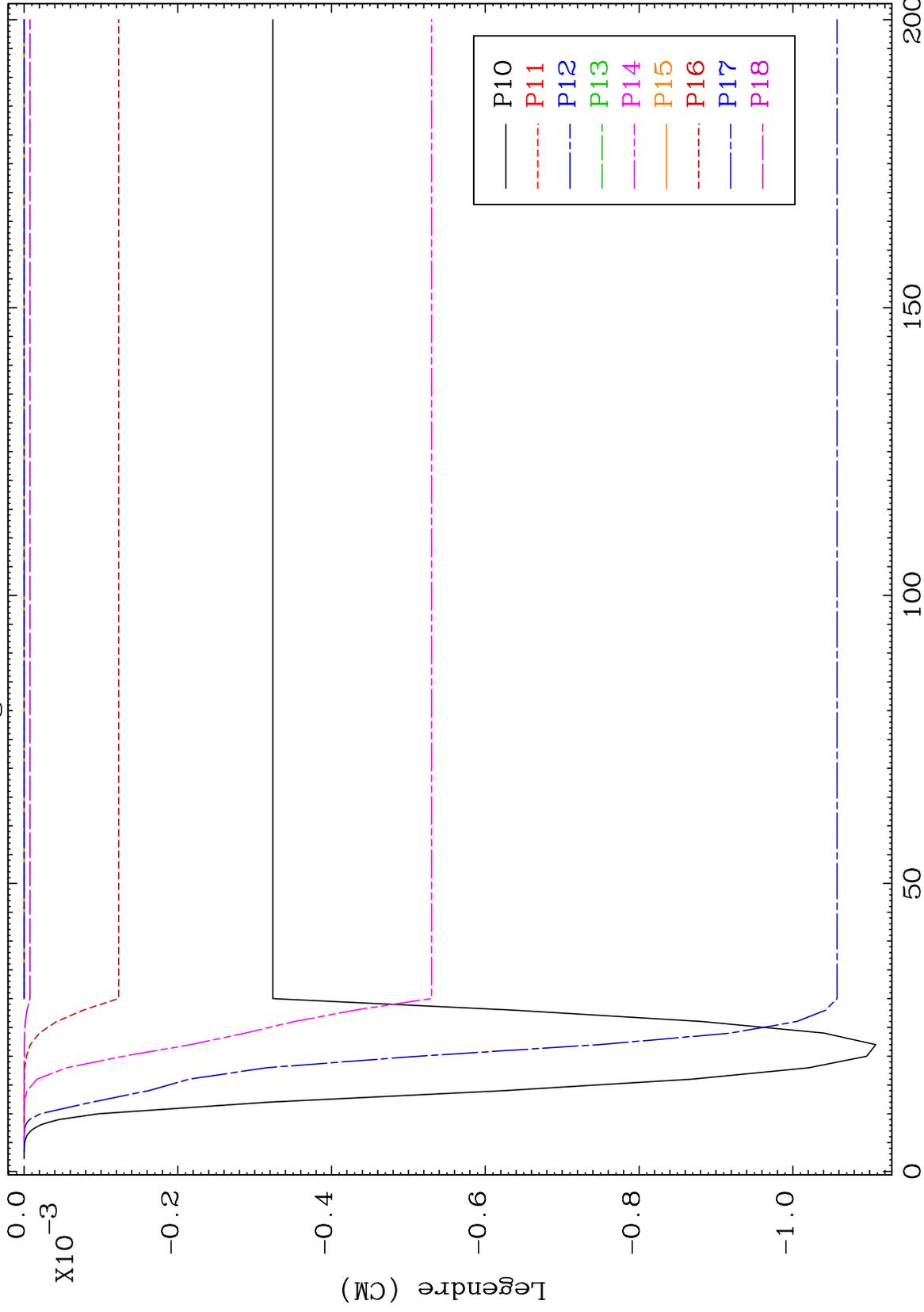
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



48

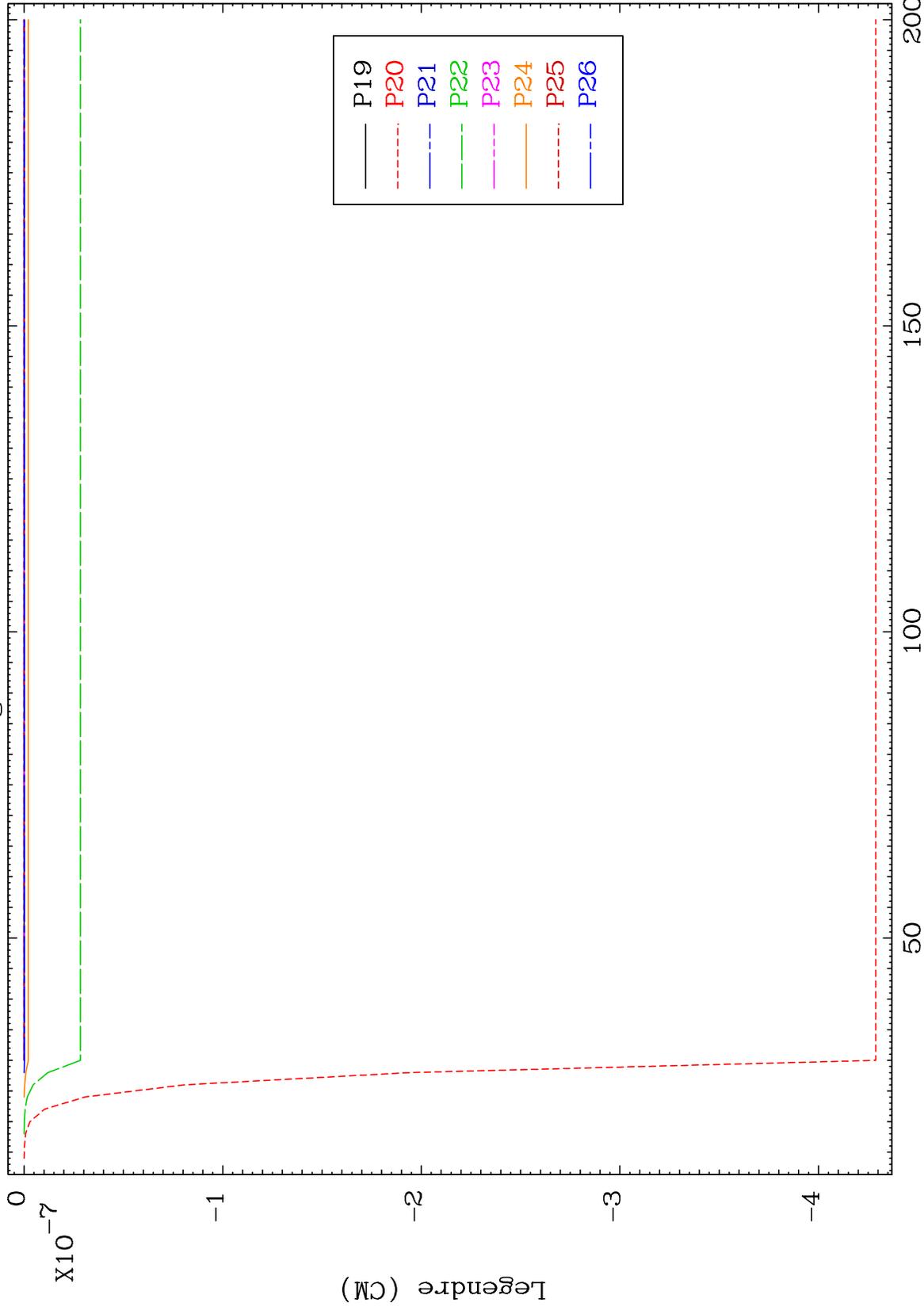
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



49

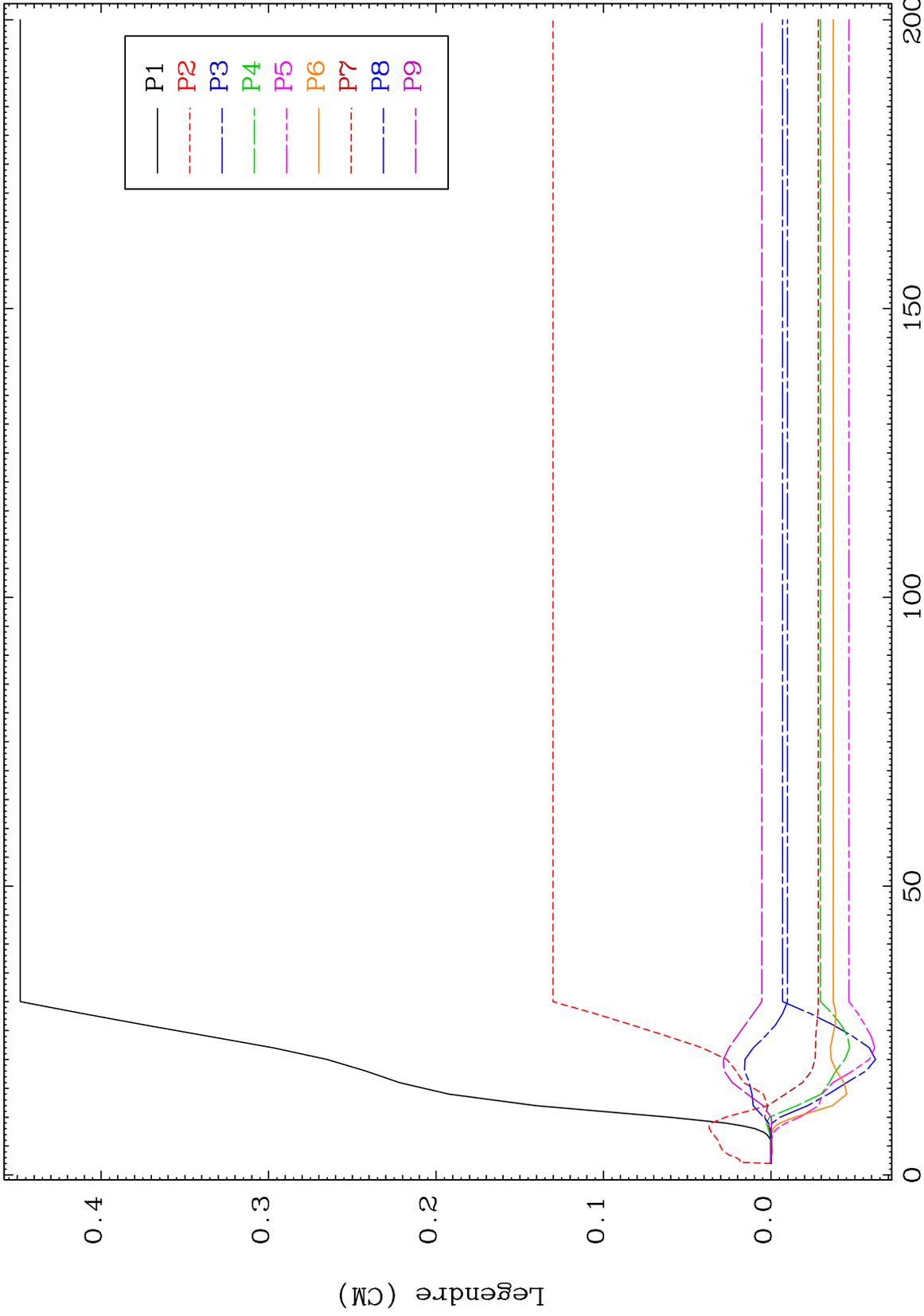
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



37-Rb-87

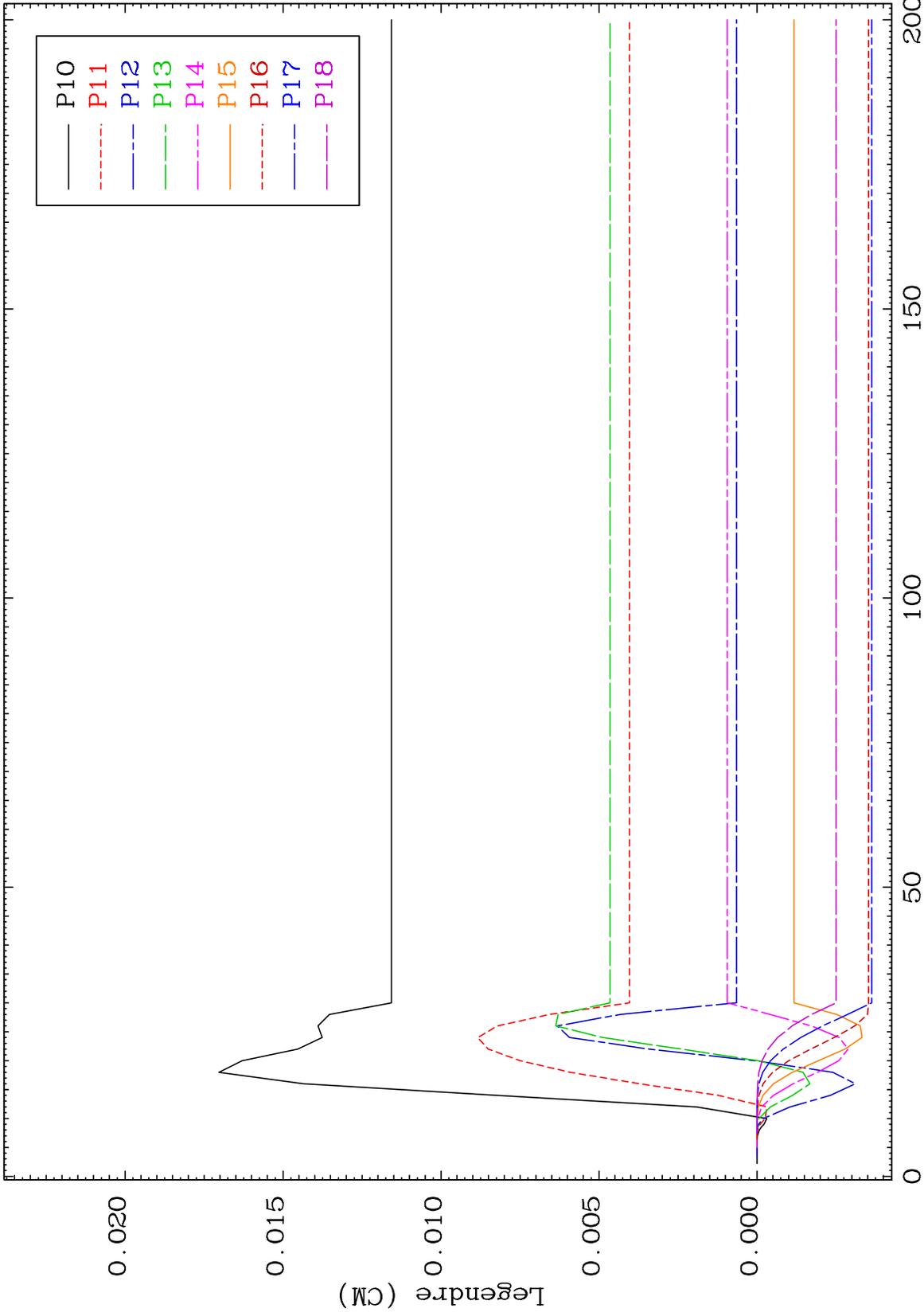
Incident Energy (MeV)

Legendre (CM)

MAT 3731

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

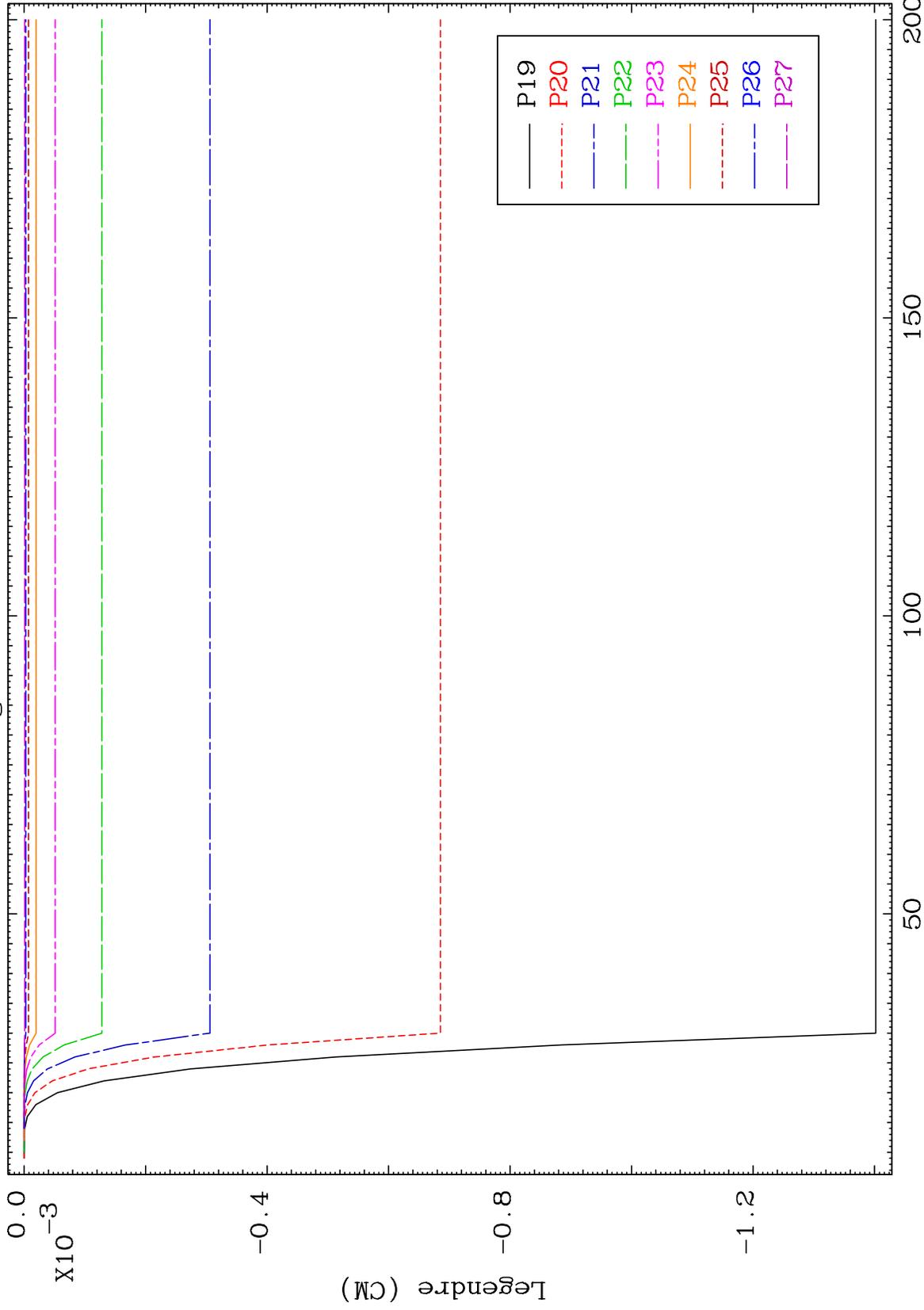
37-Rb-87



51

Incident Energy (MeV)

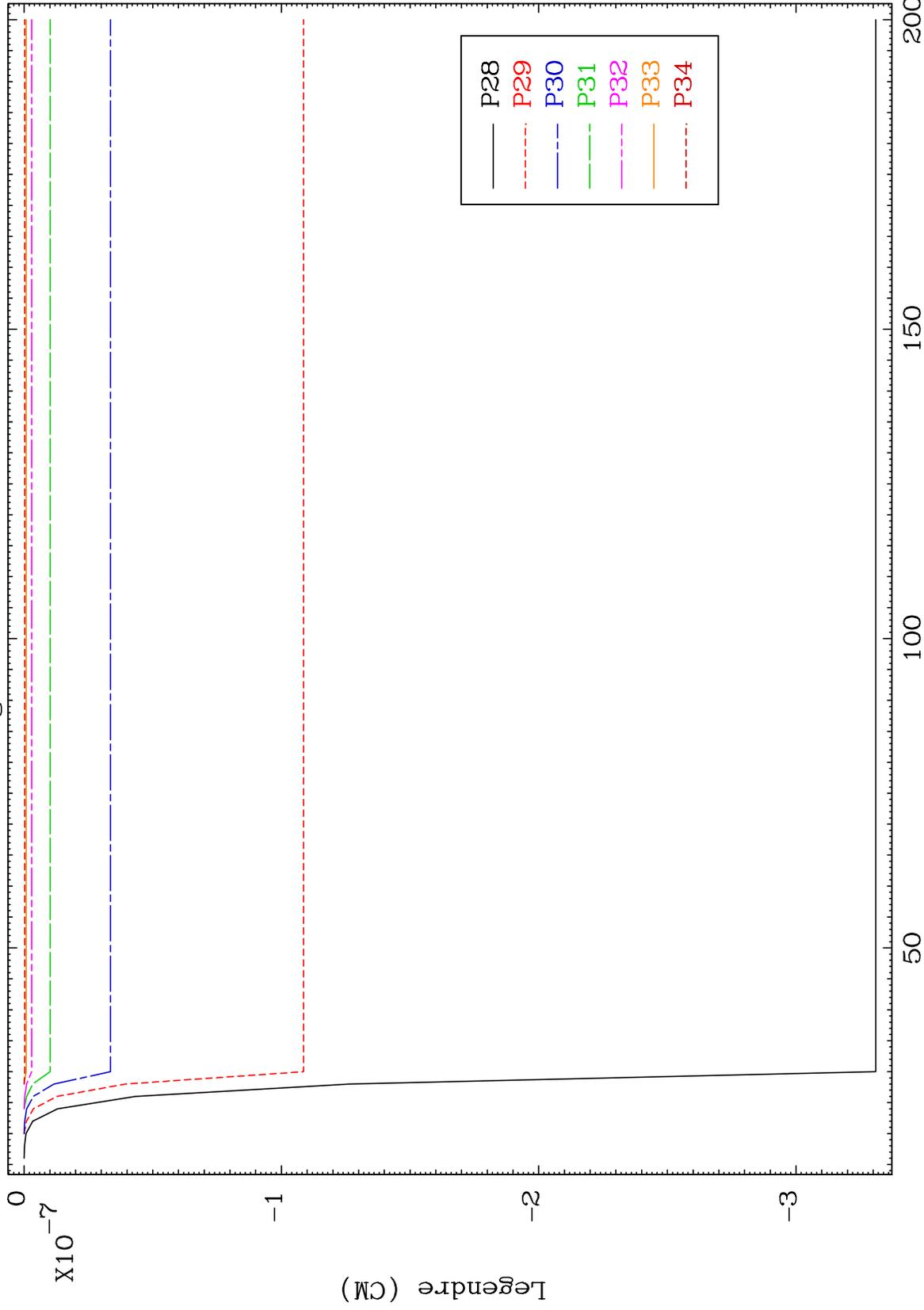
37-Rb-87



MAT 3731

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

37-Rb-87



37-Rb-87

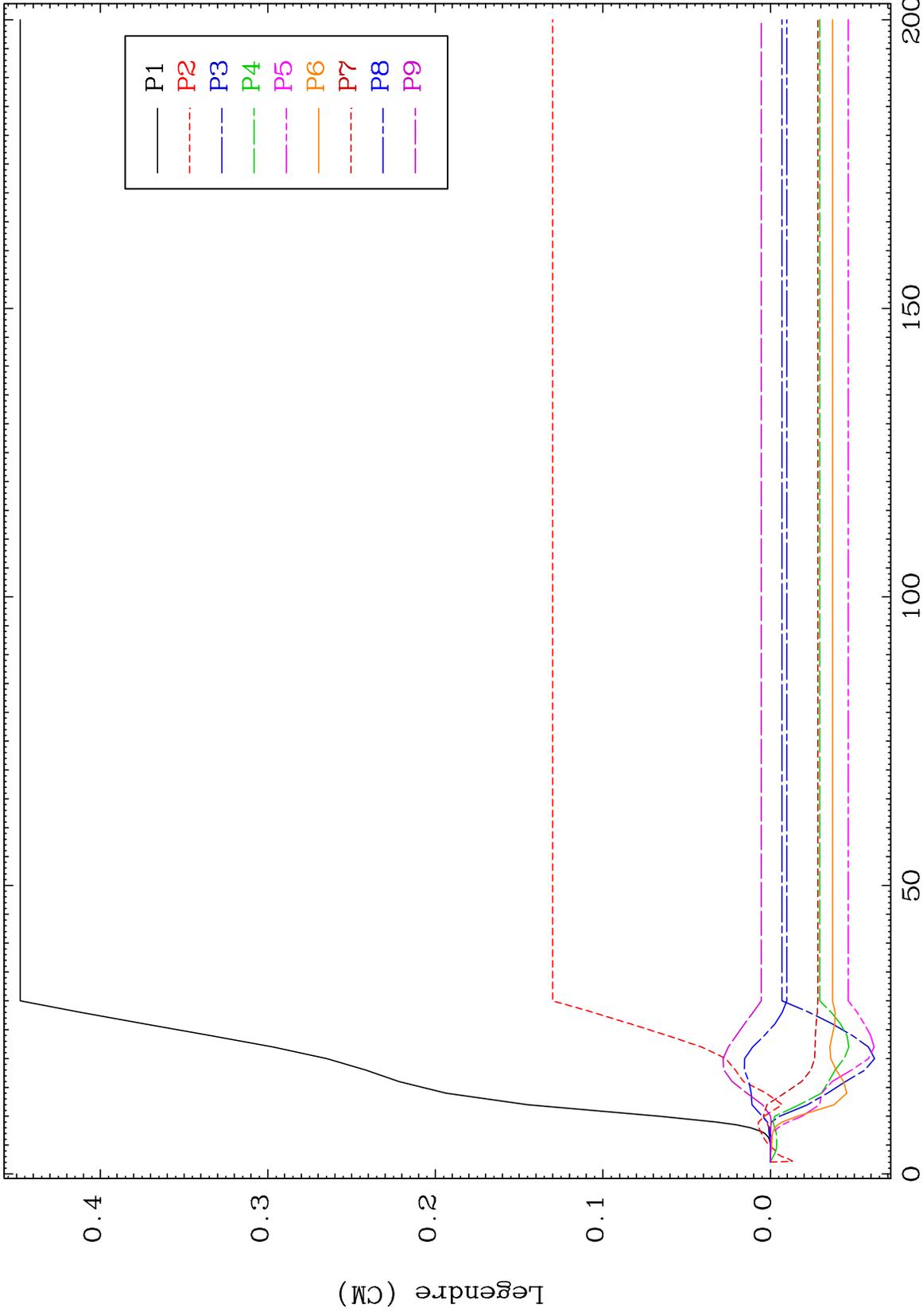
Incident Energy (MeV)

53

MAT 3731

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

37-Rb-87



54

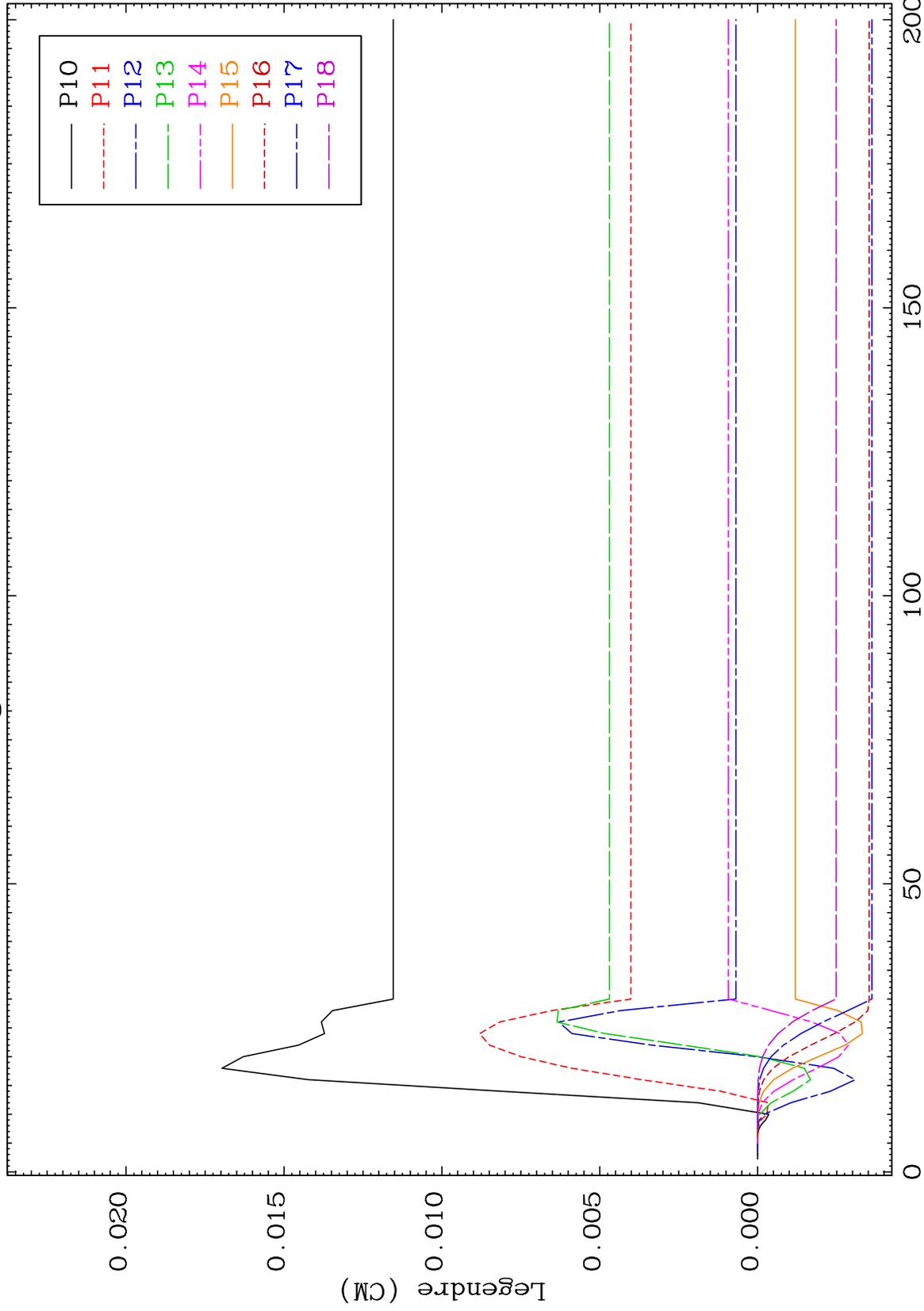
Incident Energy (MeV)

37-Rb-87

MAT 3731

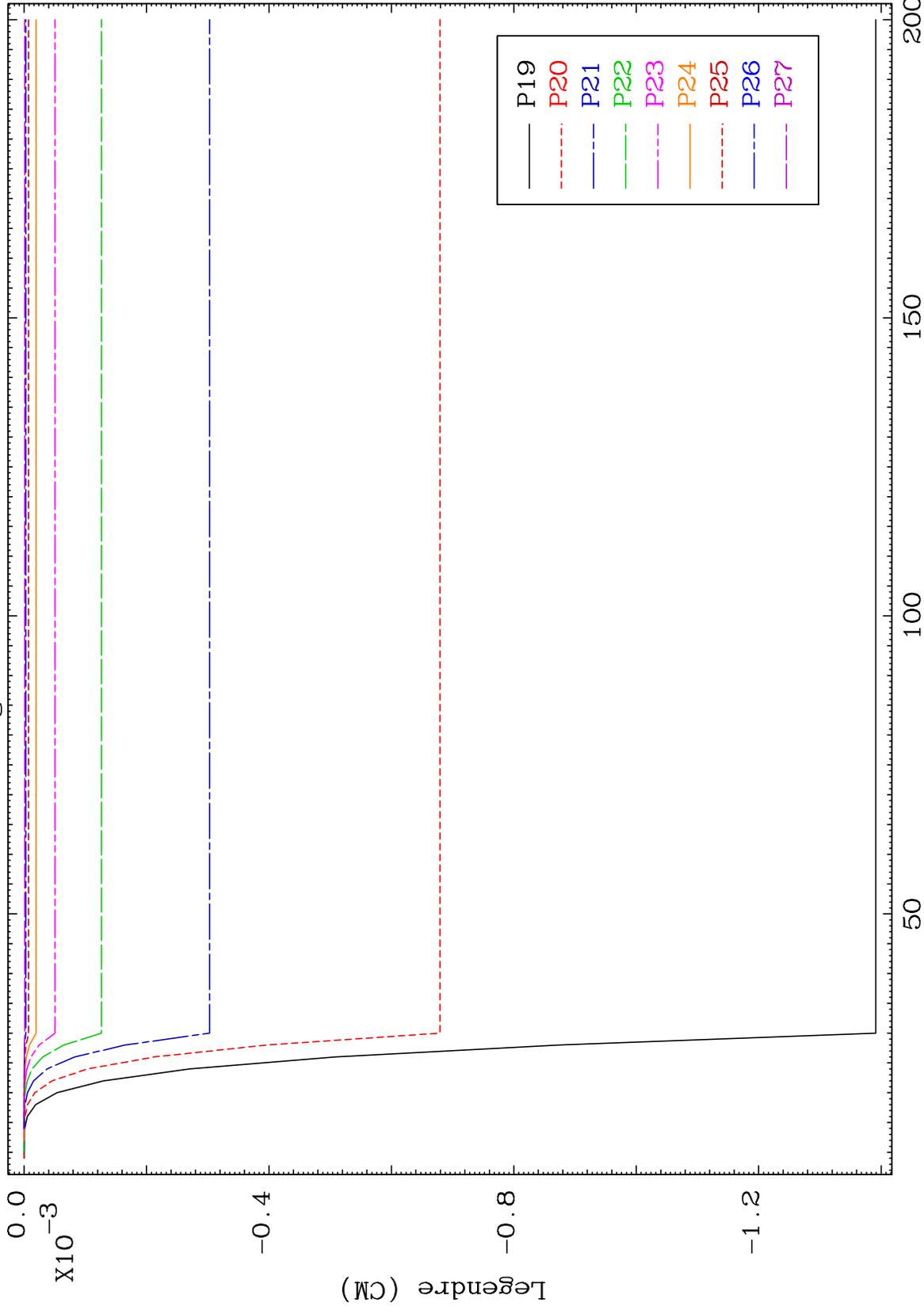
MT= 61 (n,n') Level
Legendre Coefficients

37-Rb-87



55

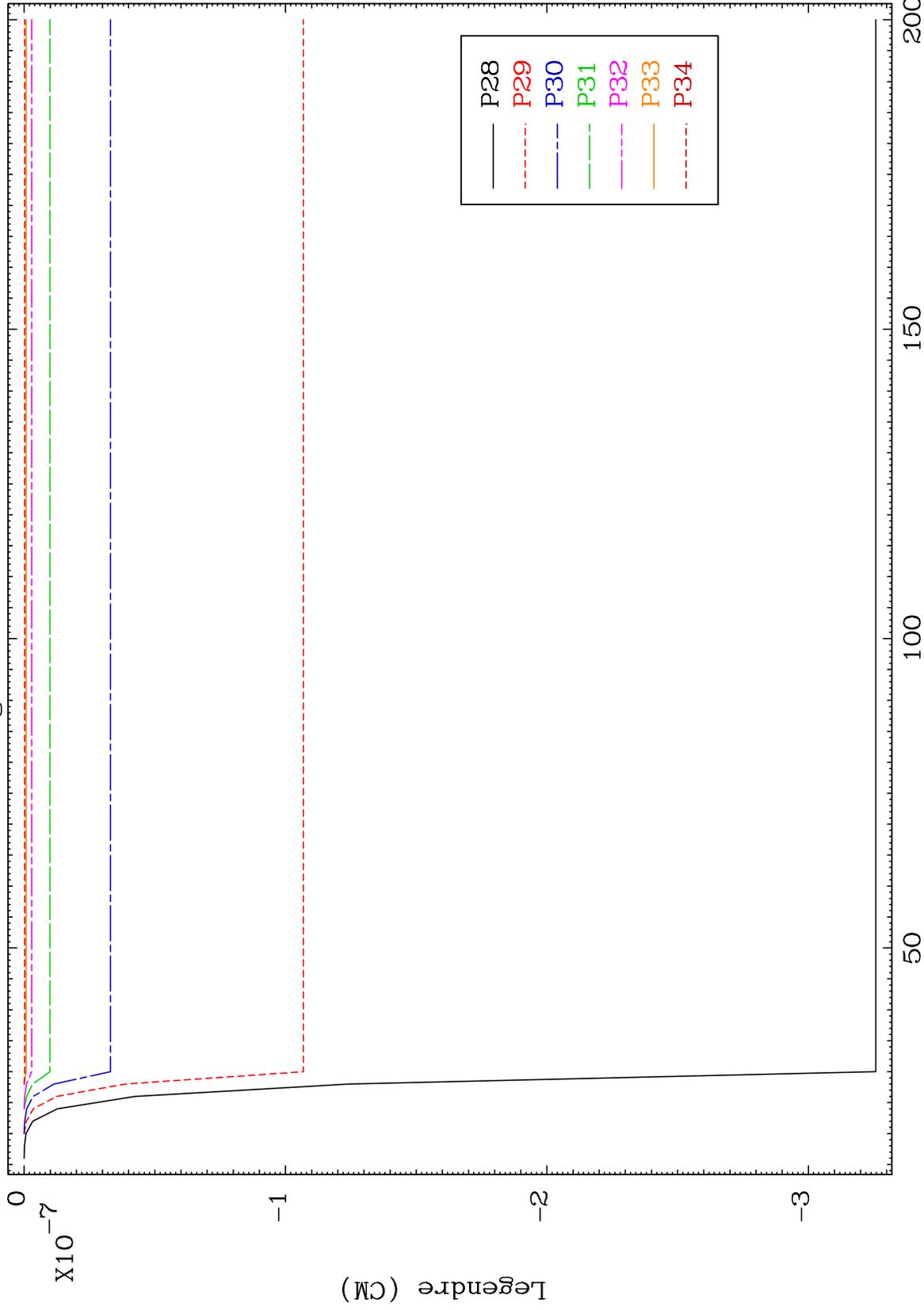
37-Rb-87



37-Rb-87

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

MAT 3731



37-Rb-87

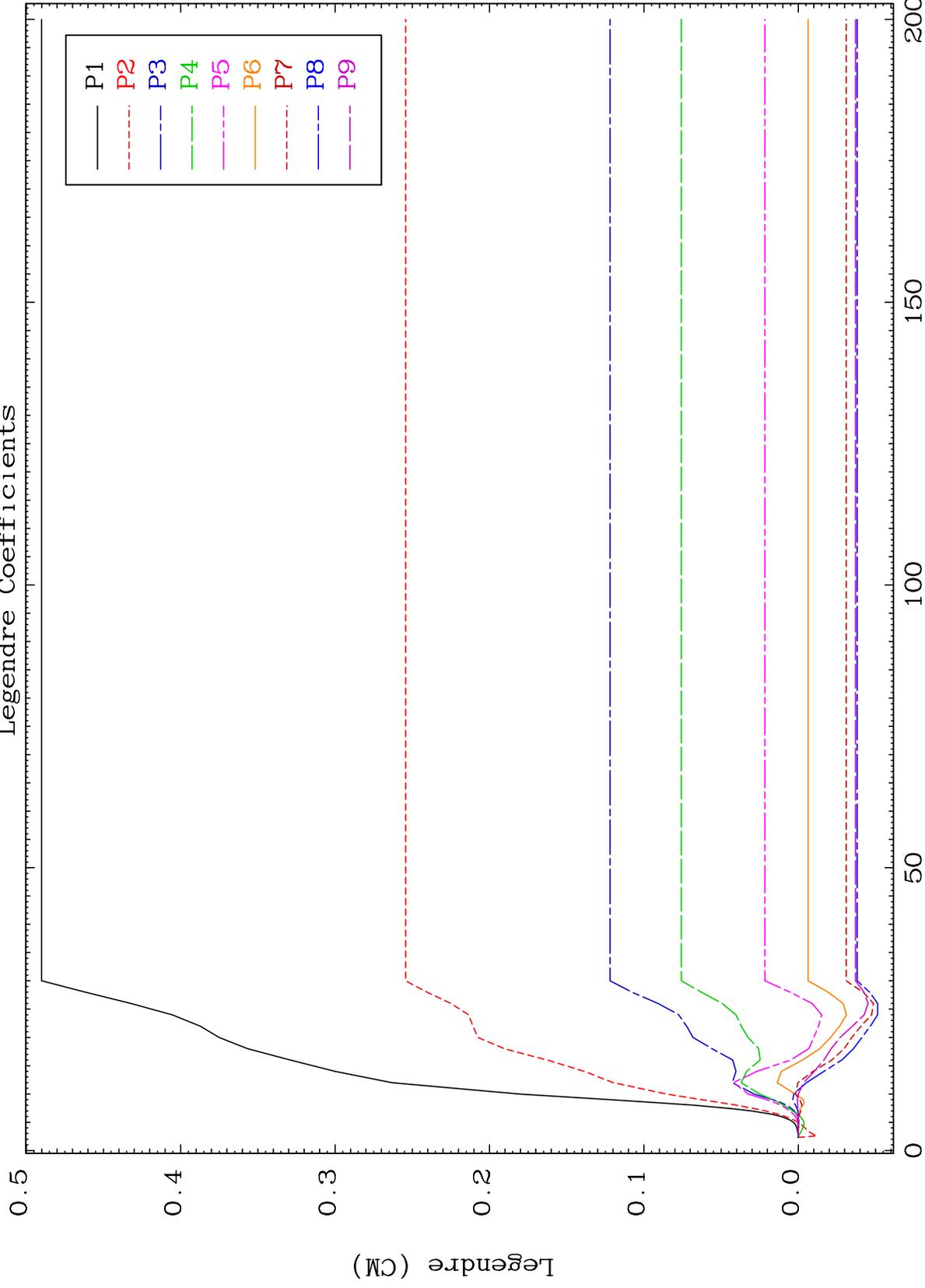
Incident Energy (MeV)

57

MAT 3731

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

37-Rb-87



58

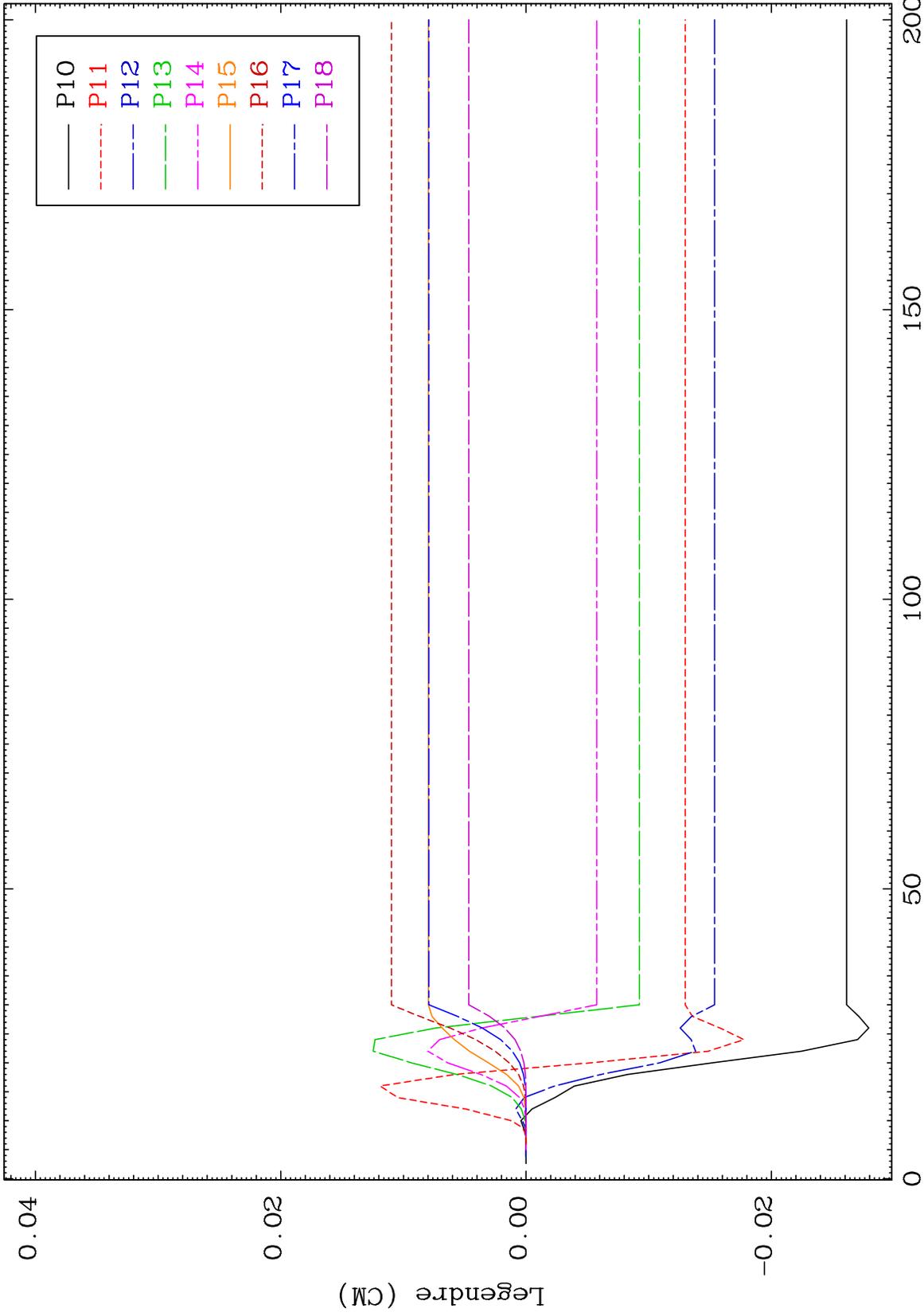
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



59

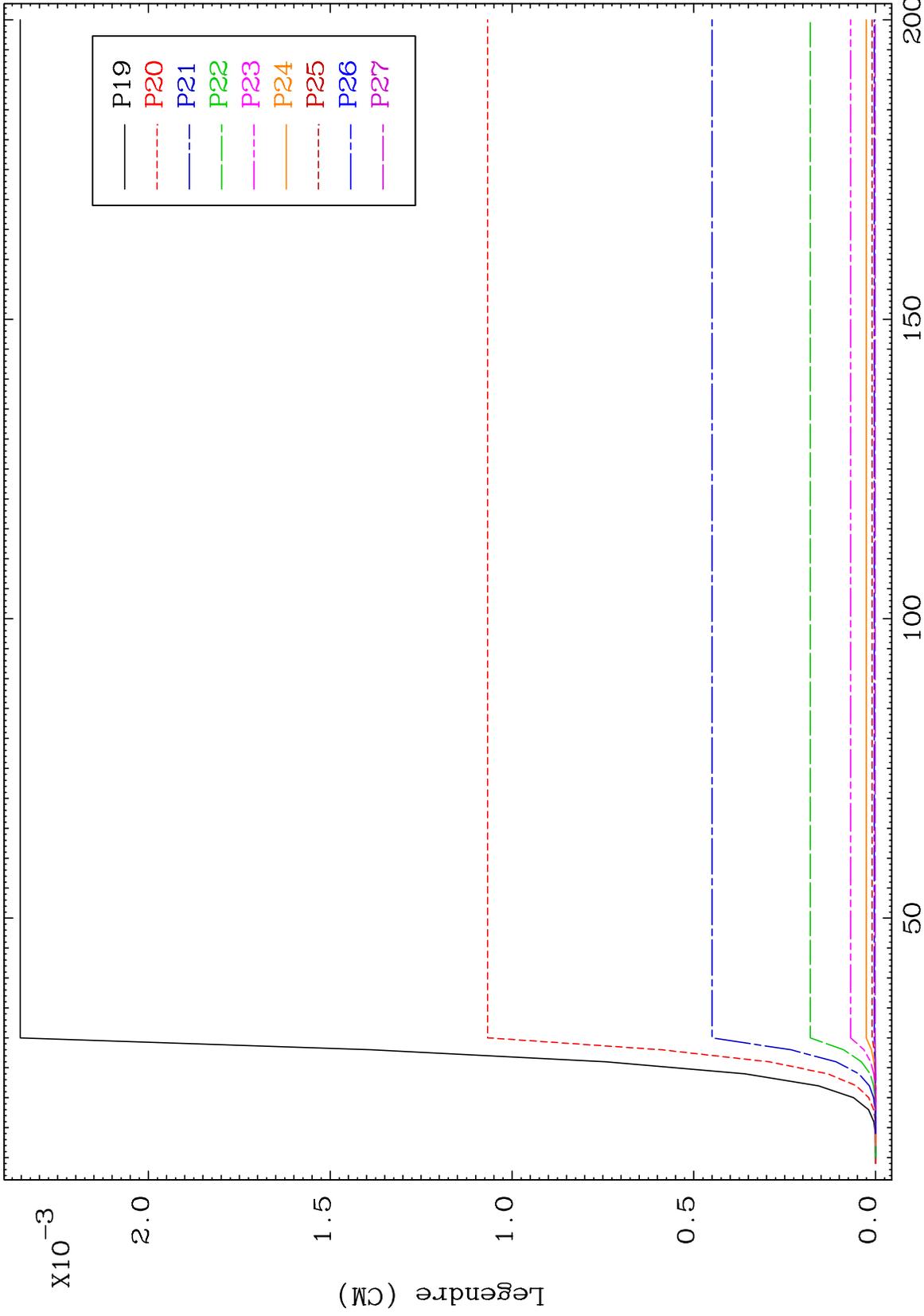
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



60

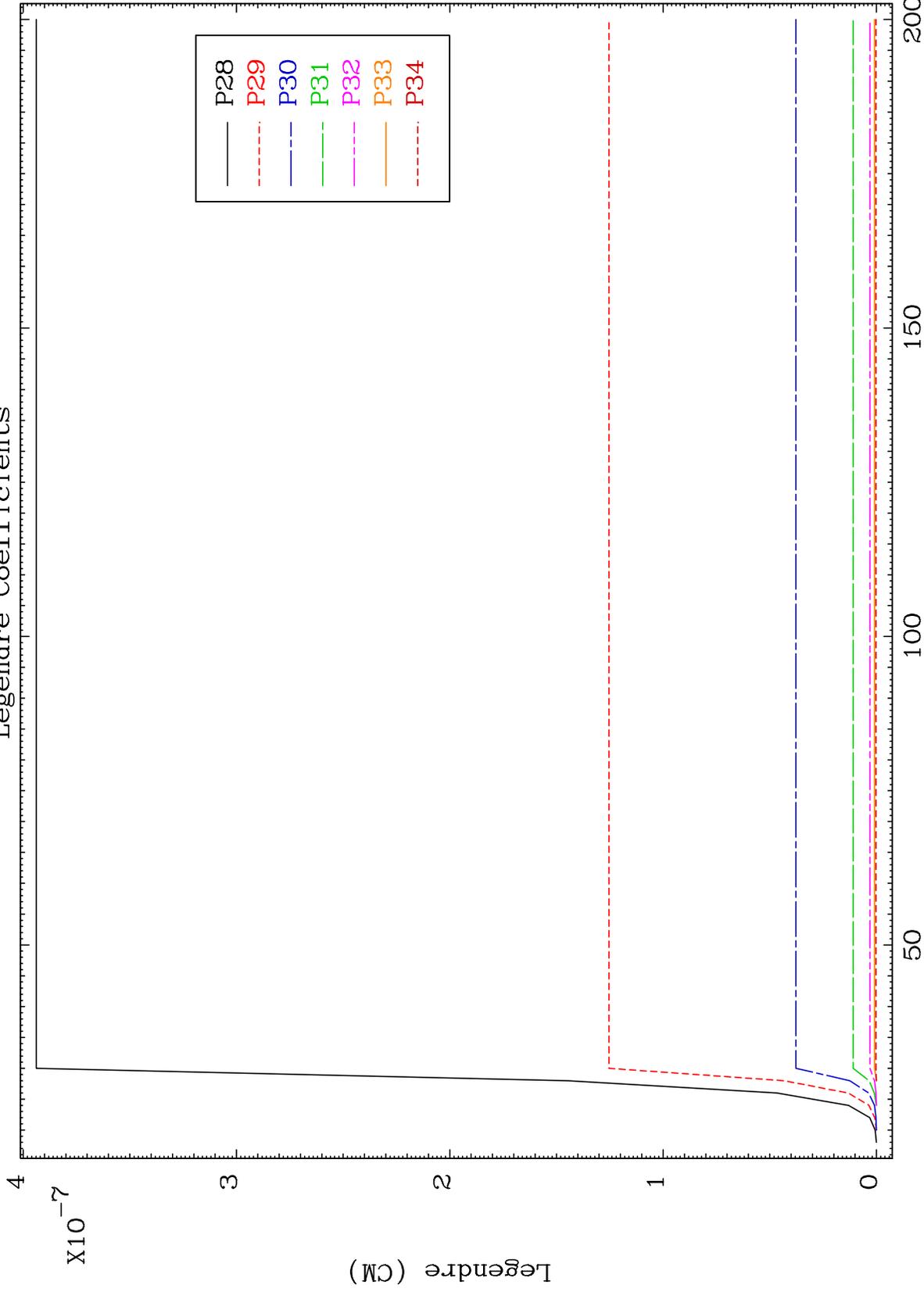
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



61

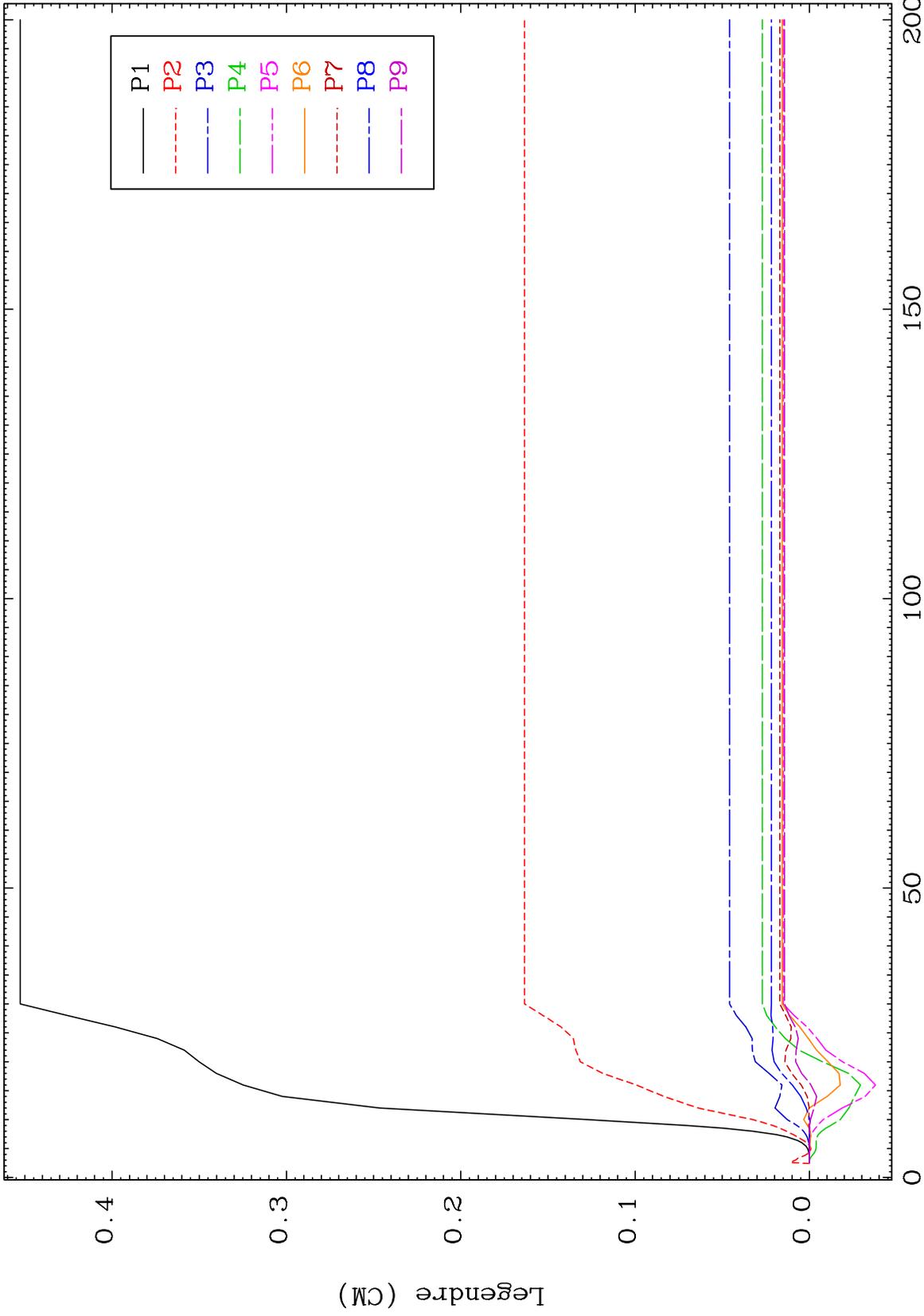
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



62

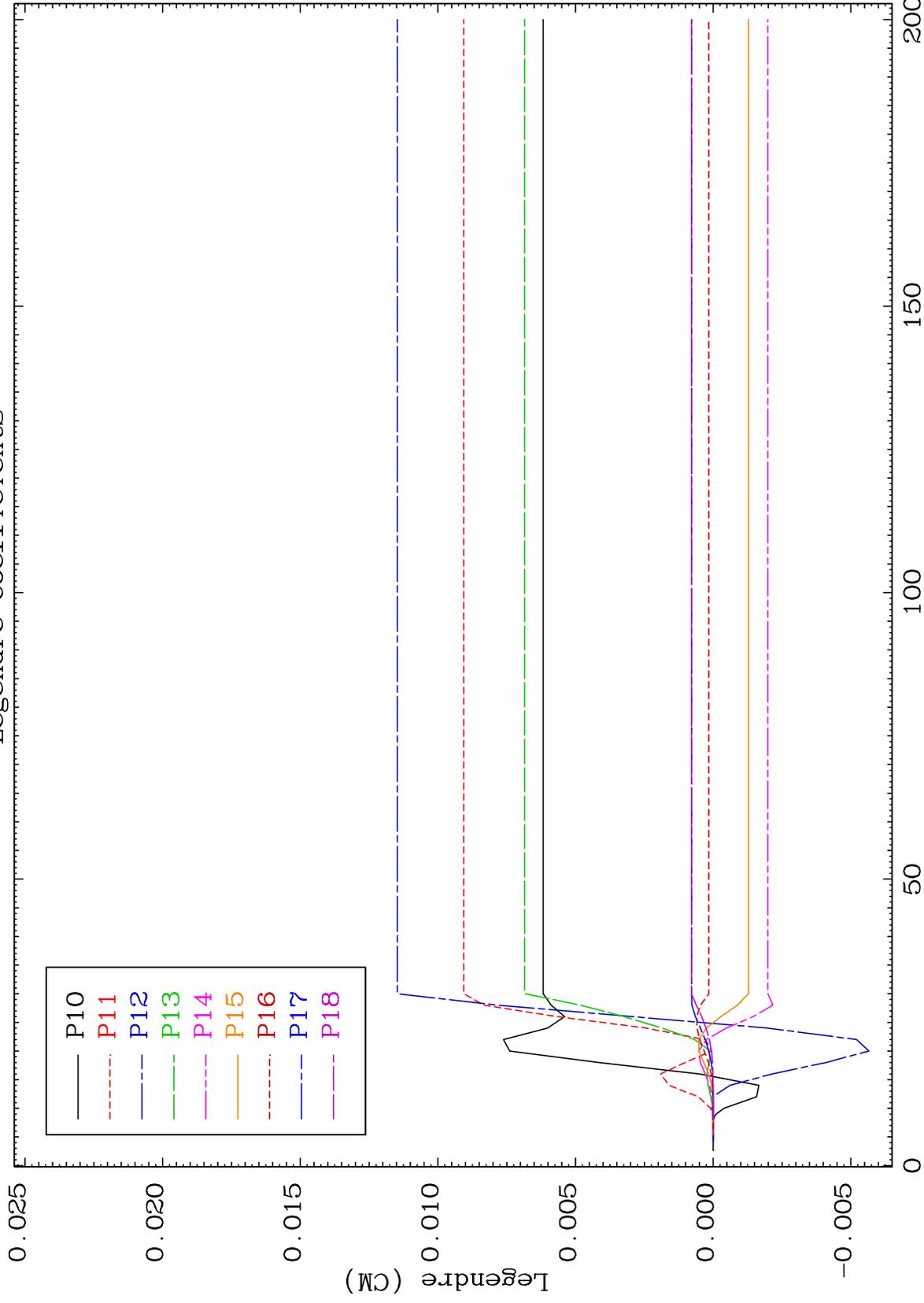
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



63

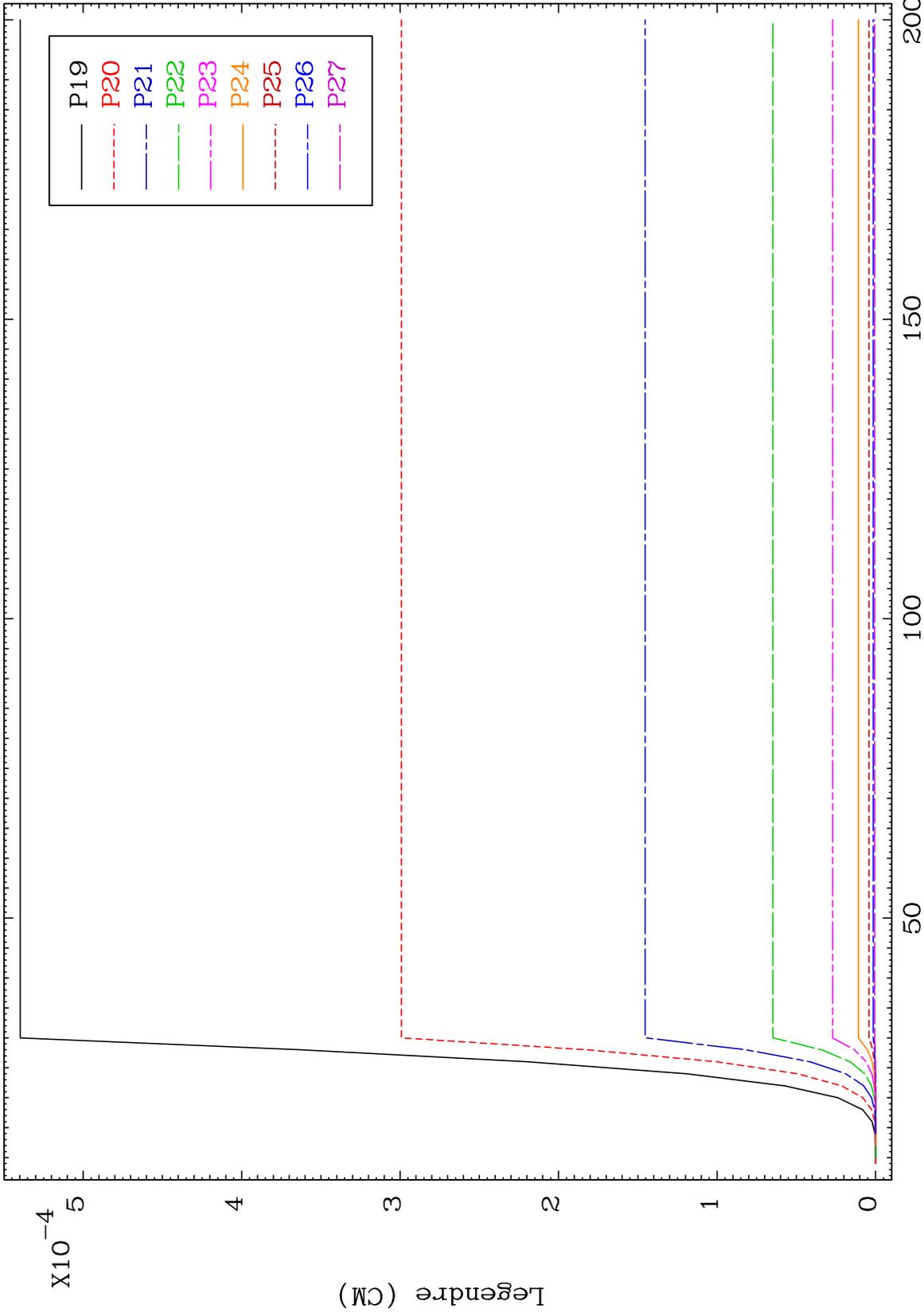
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



64

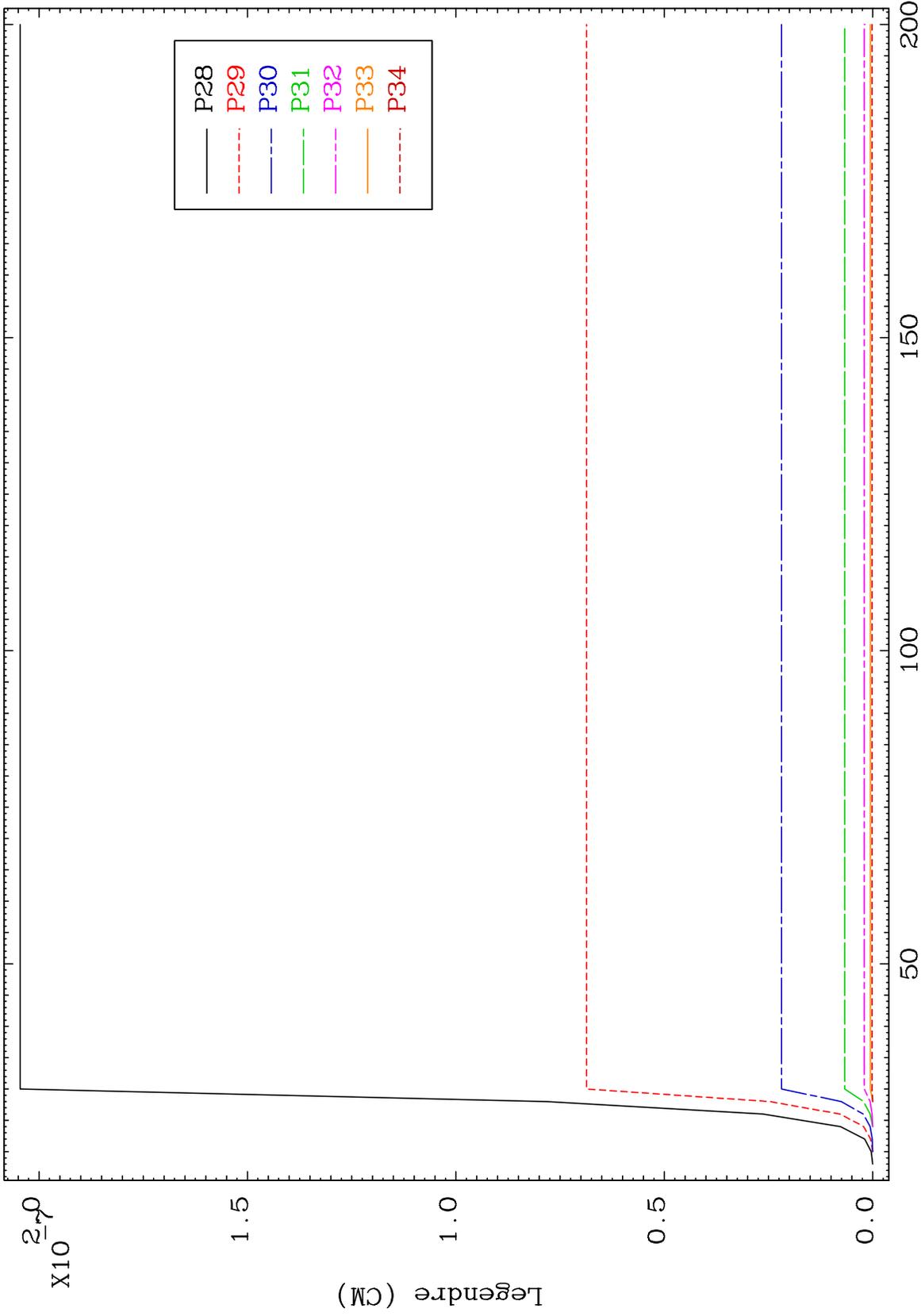
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



65

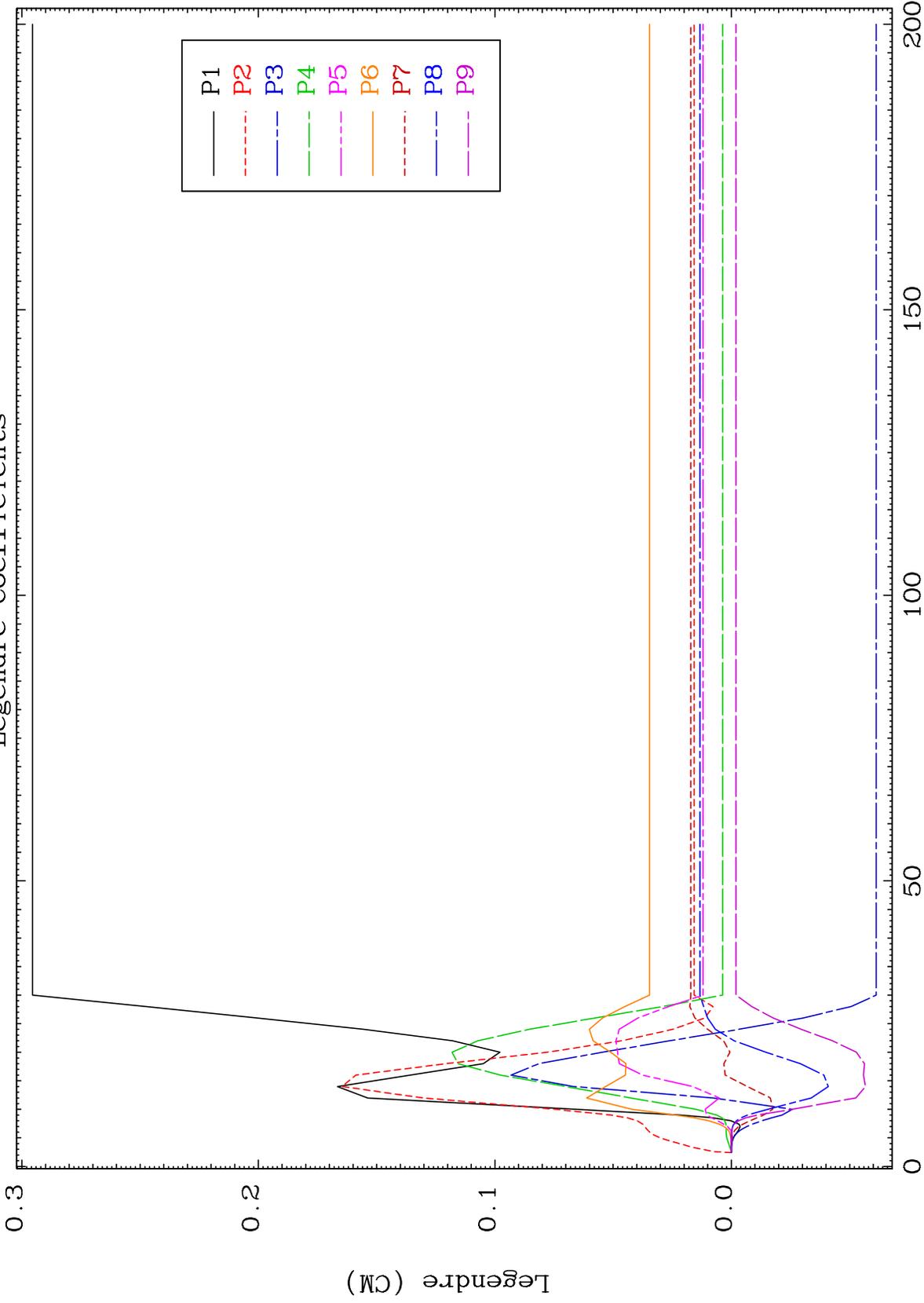
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



66

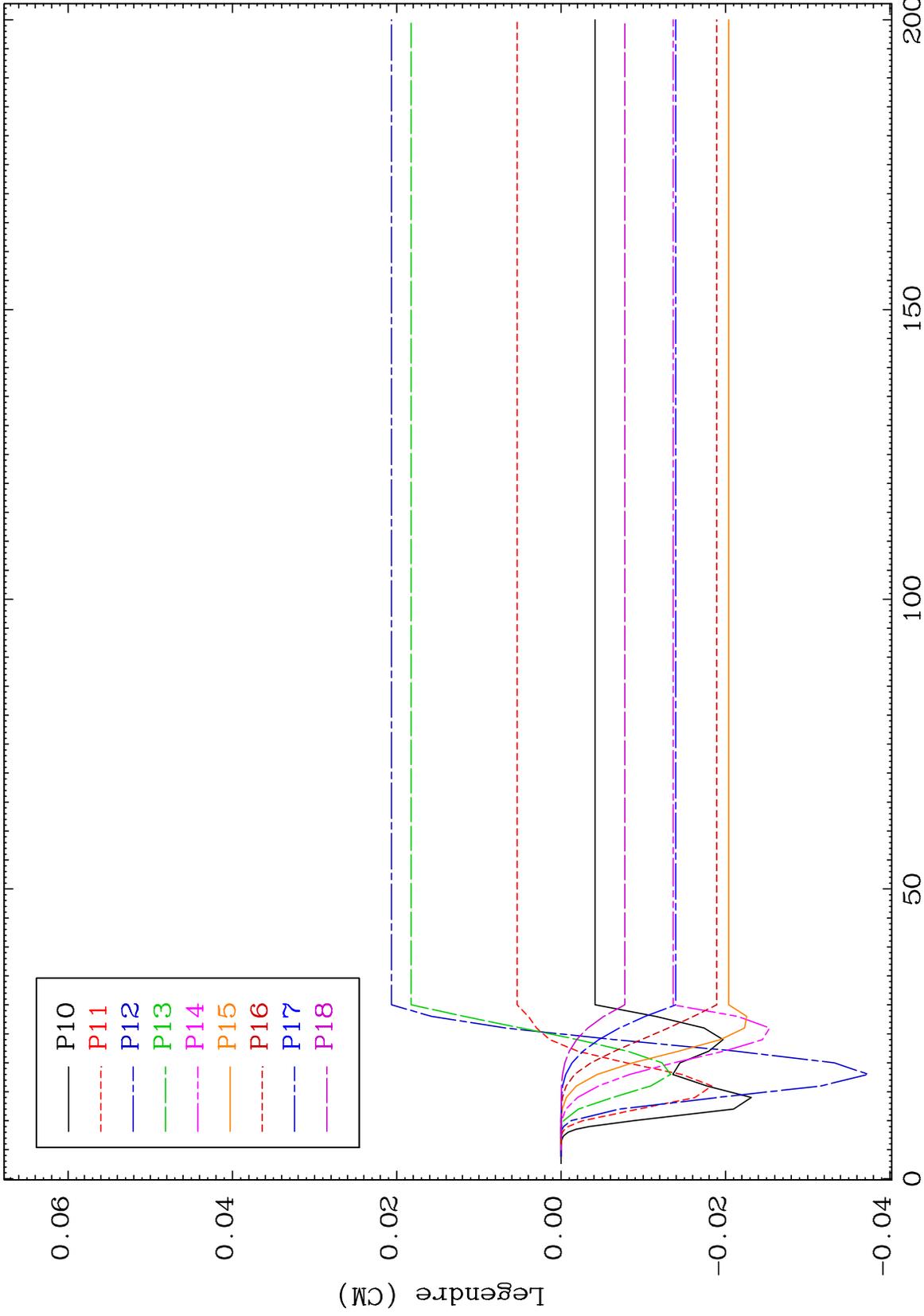
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

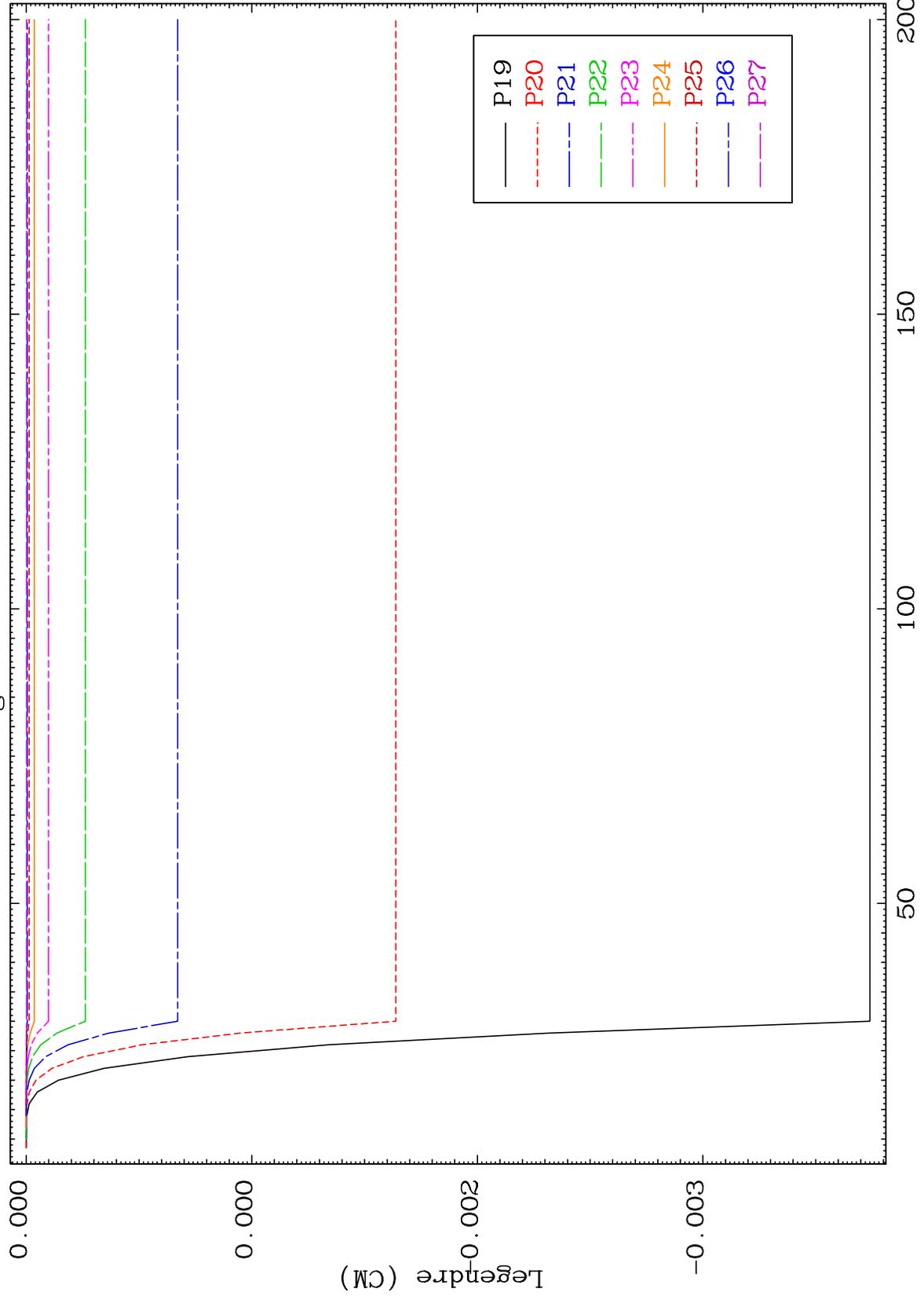
37-Rb-87



67

Incident Energy (MeV)

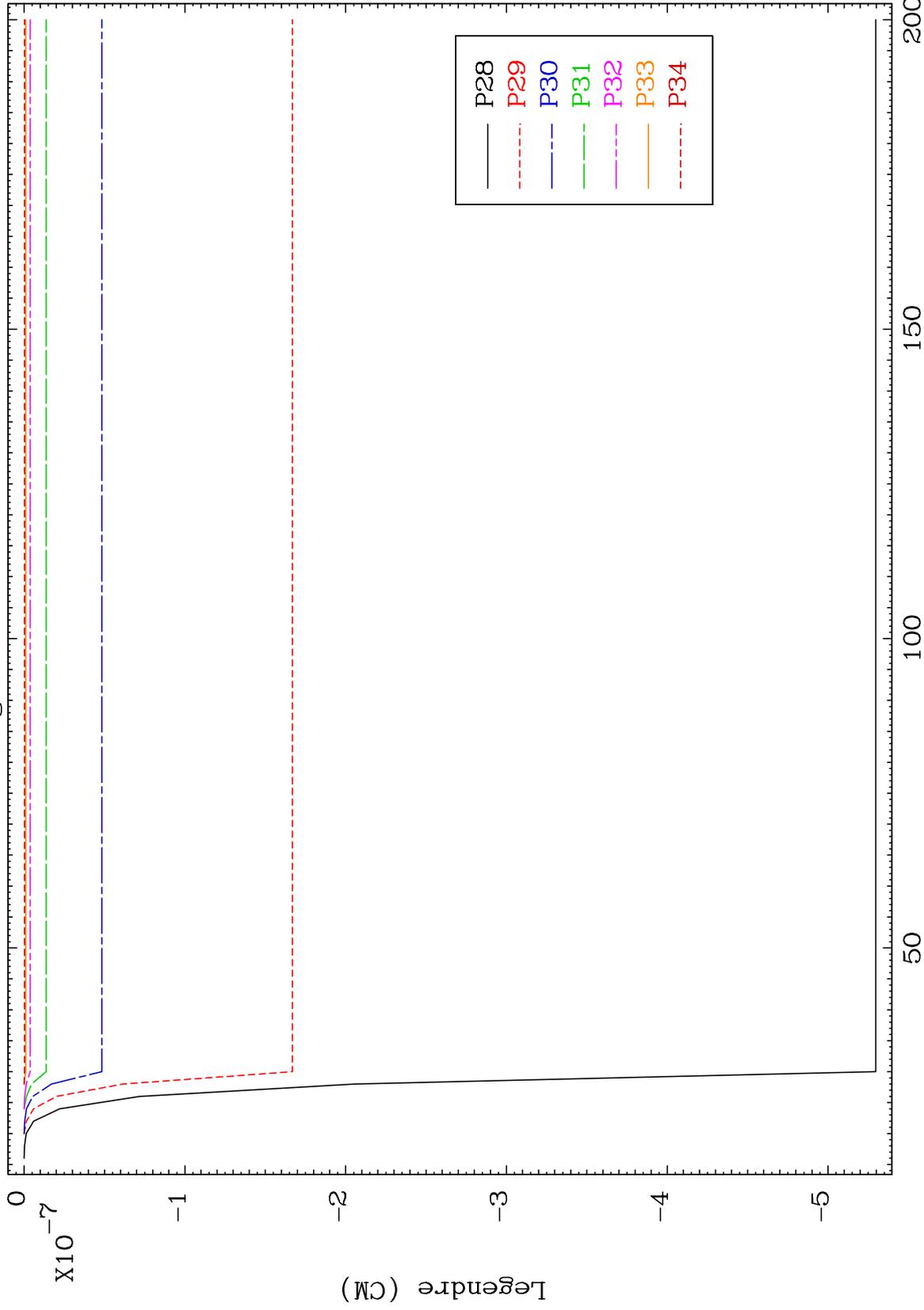
37-Rb-87



MAT 3731

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

37-Rb-87



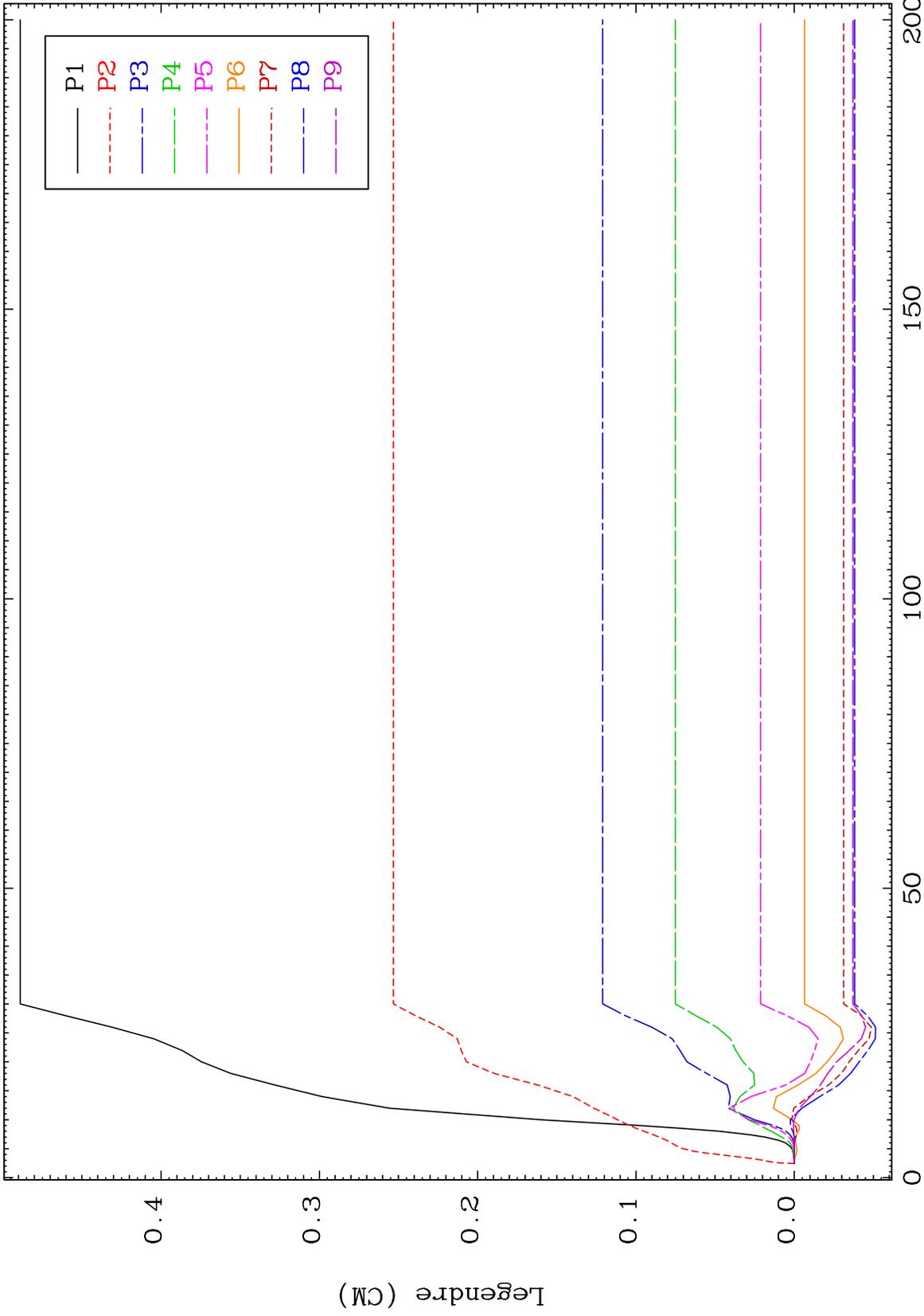
69

37-Rb-87

MAT 3731

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

37-Rb-87



70

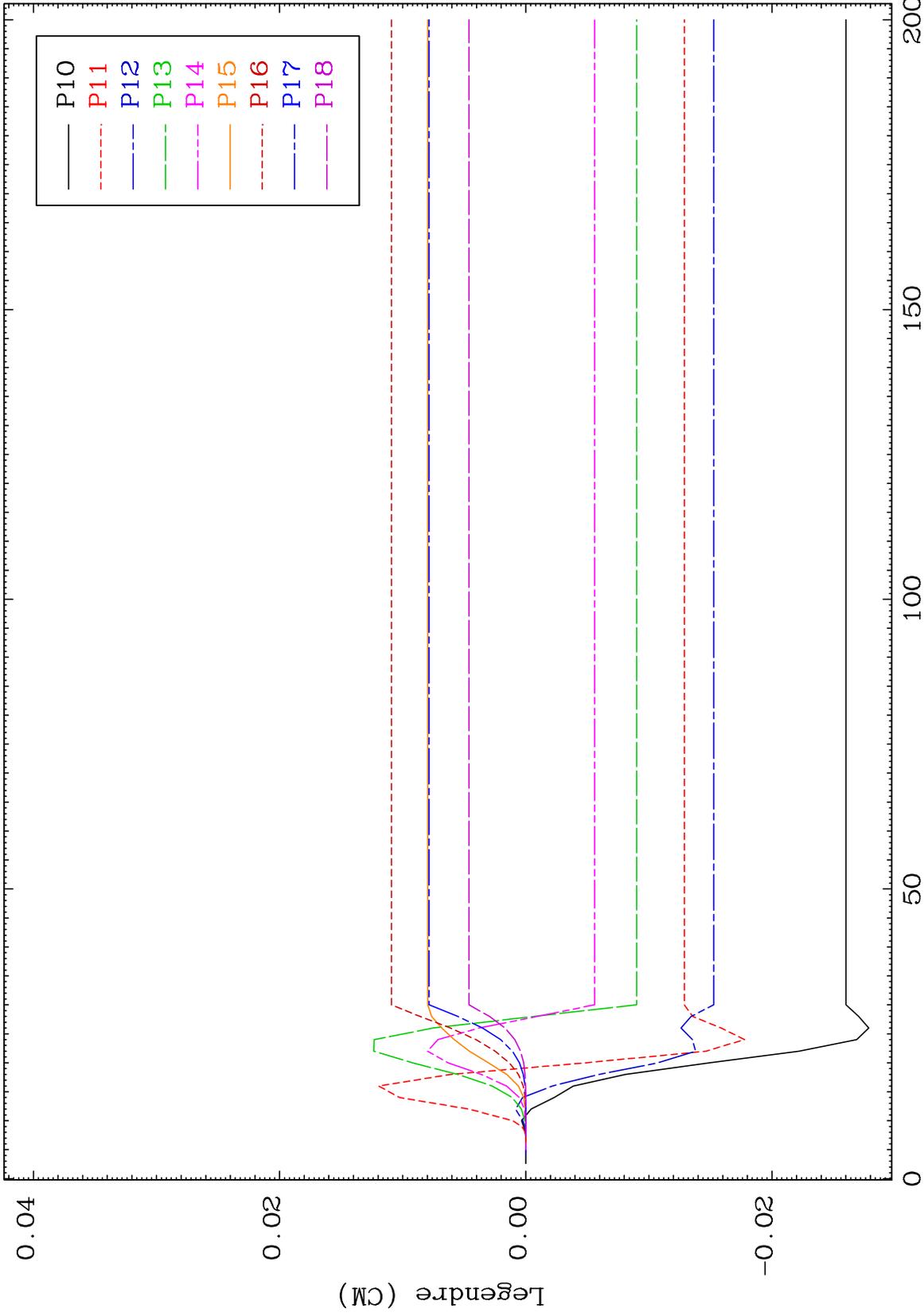
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



71

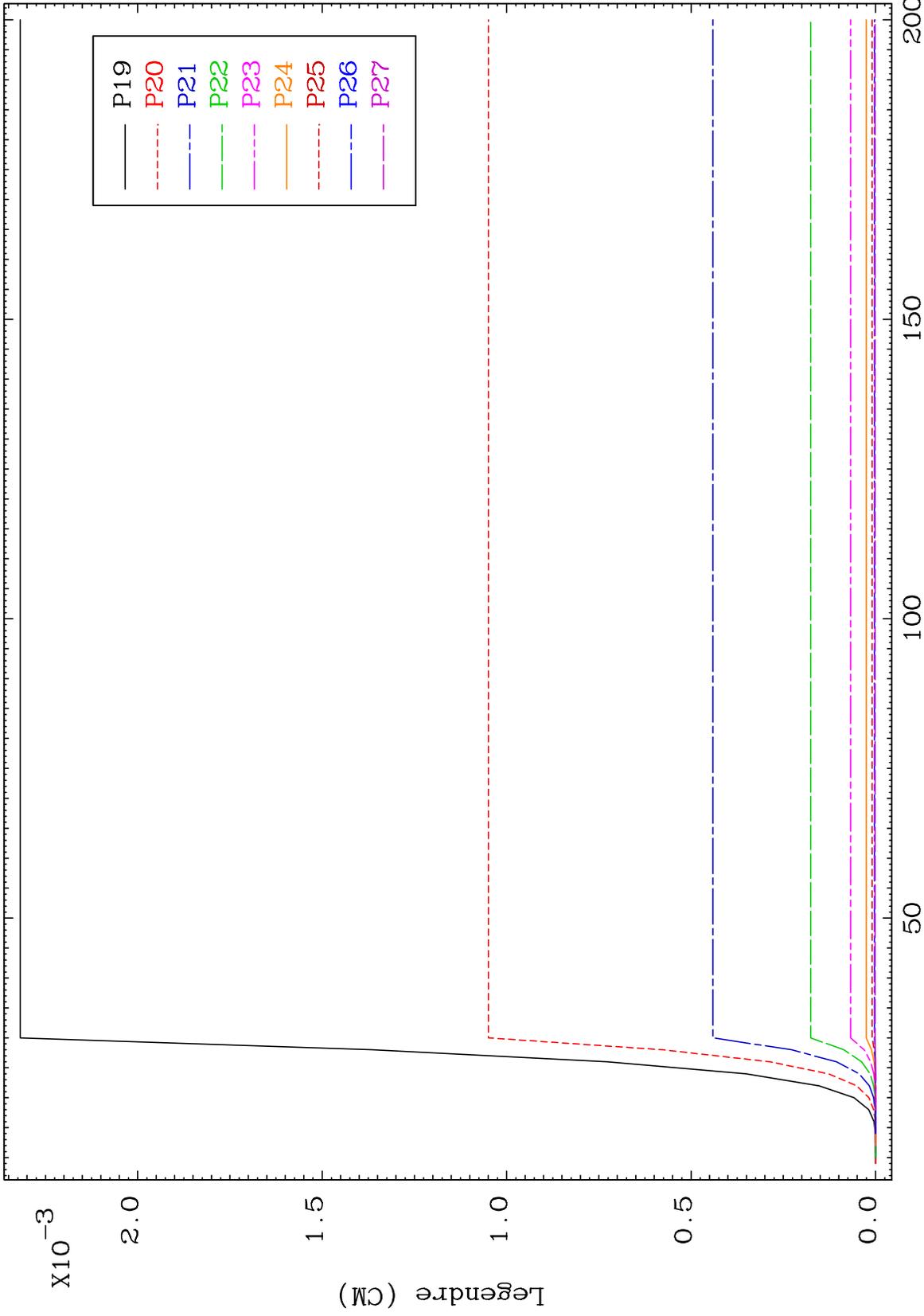
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



72

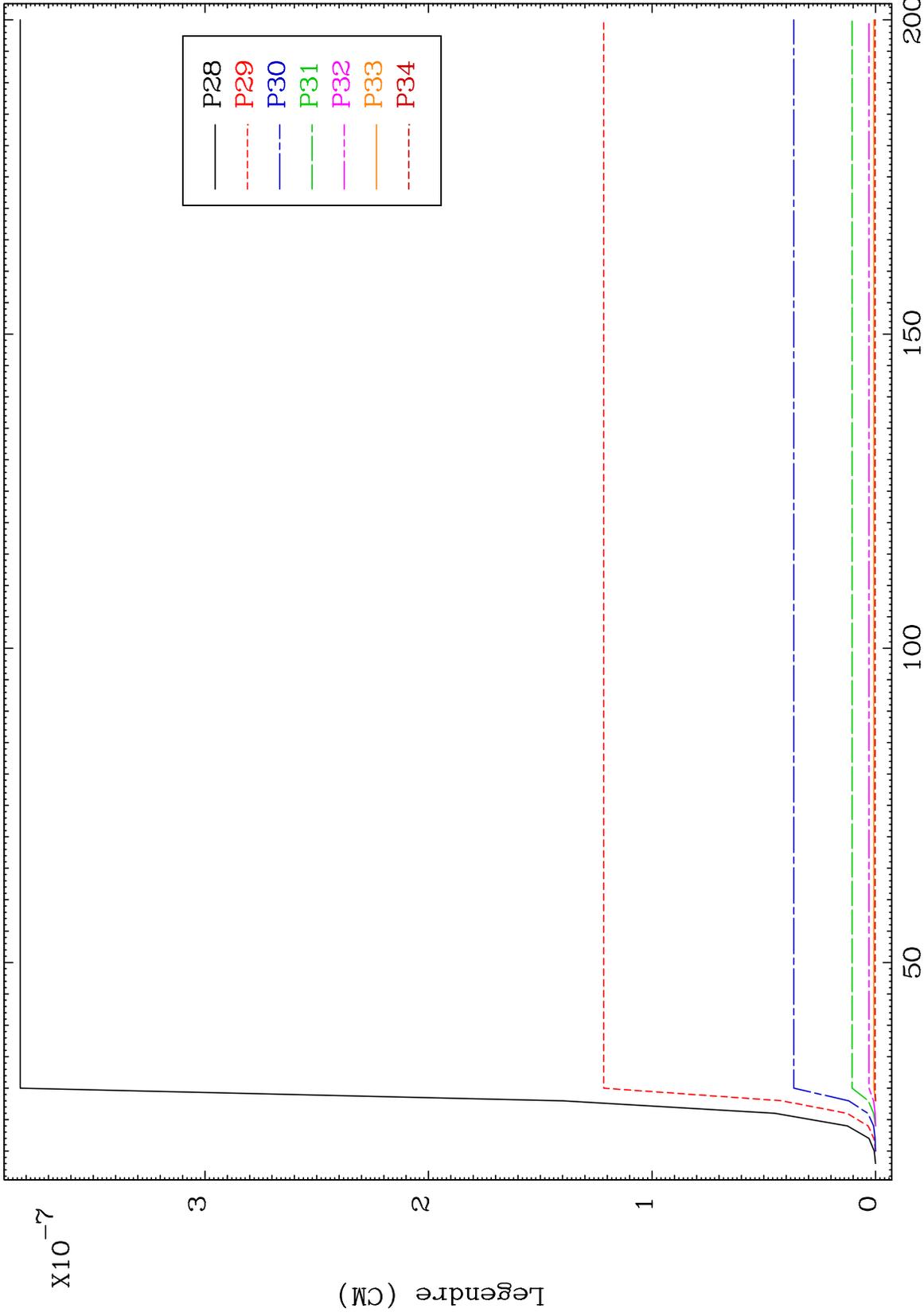
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



73

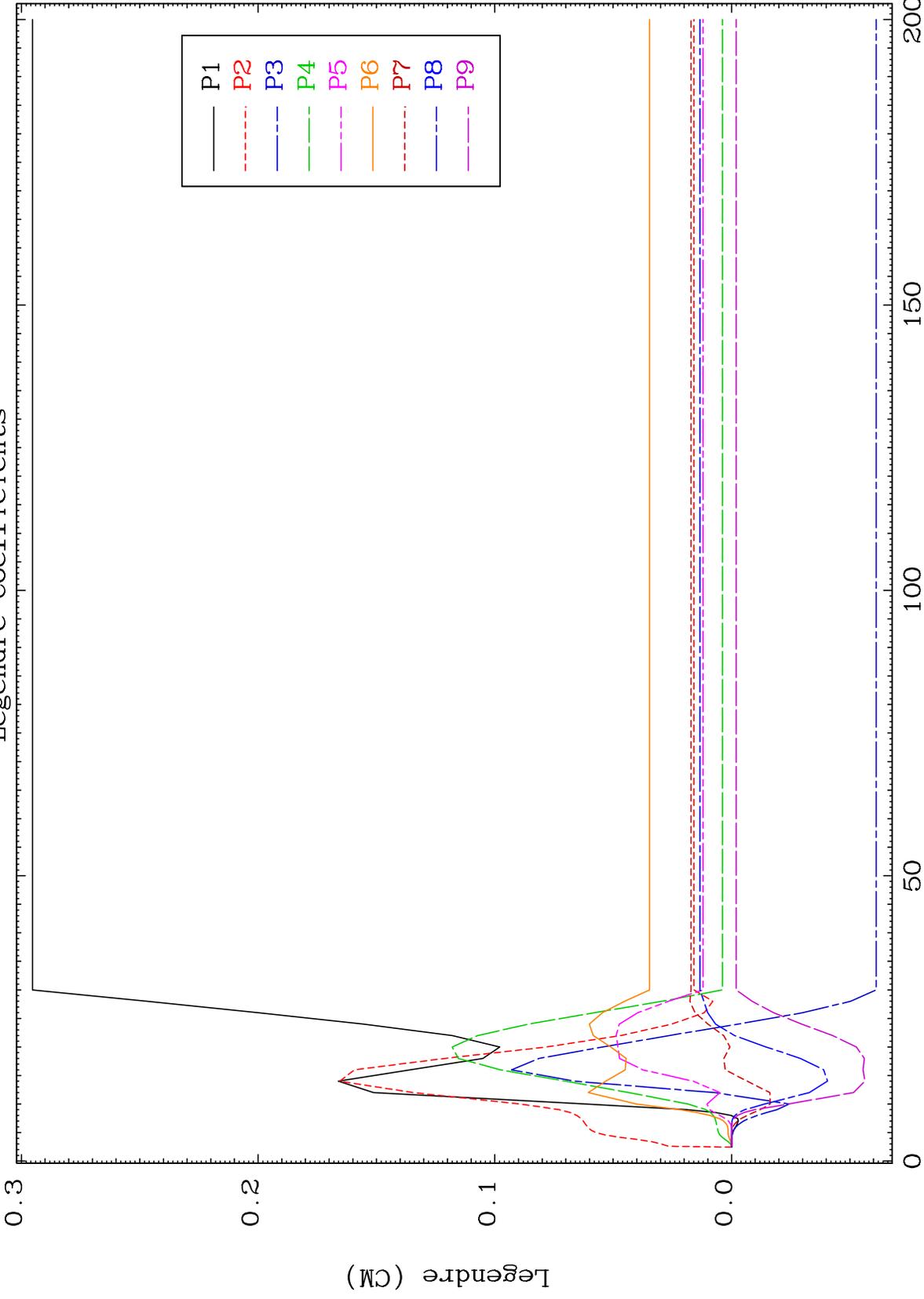
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



74

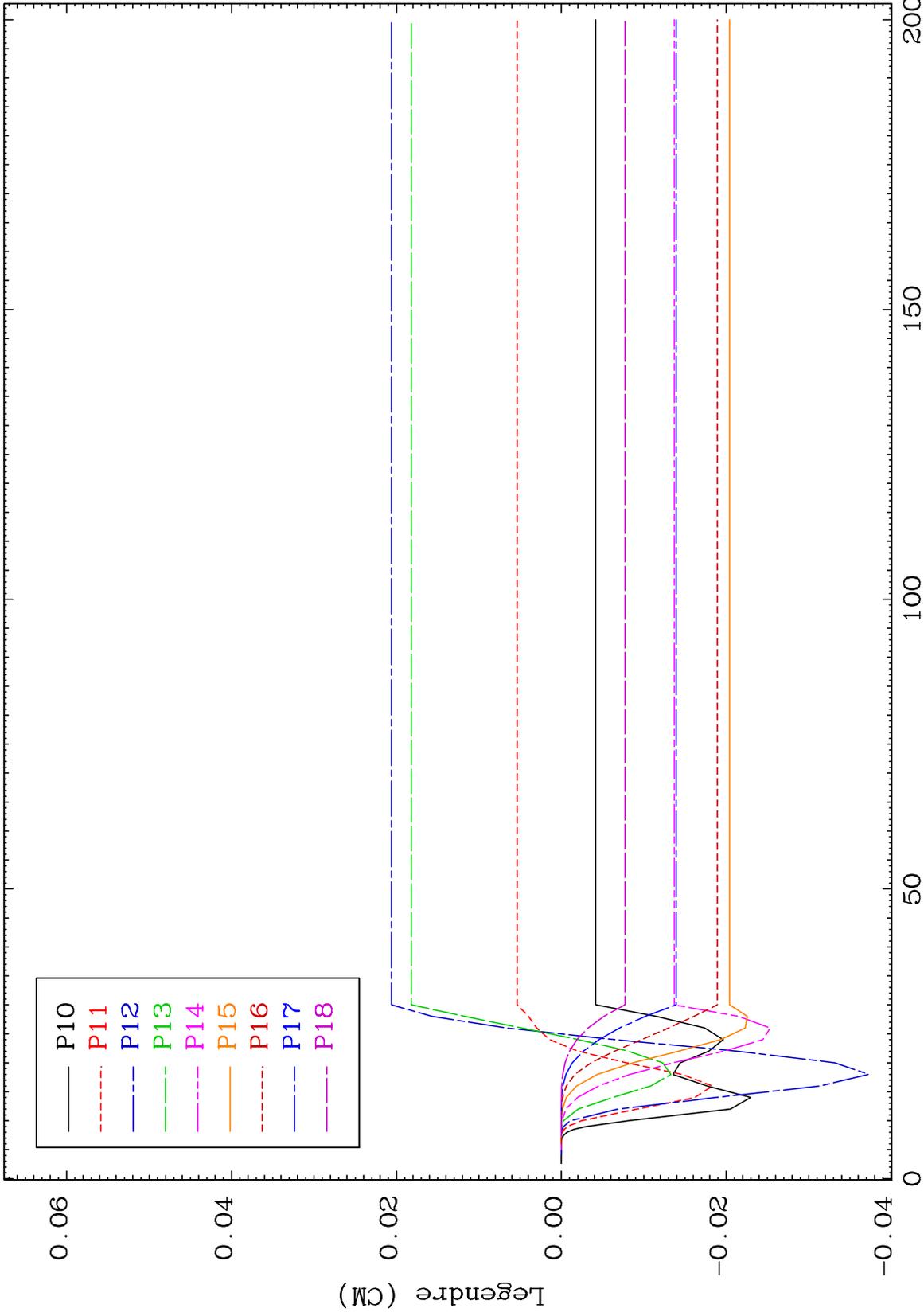
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

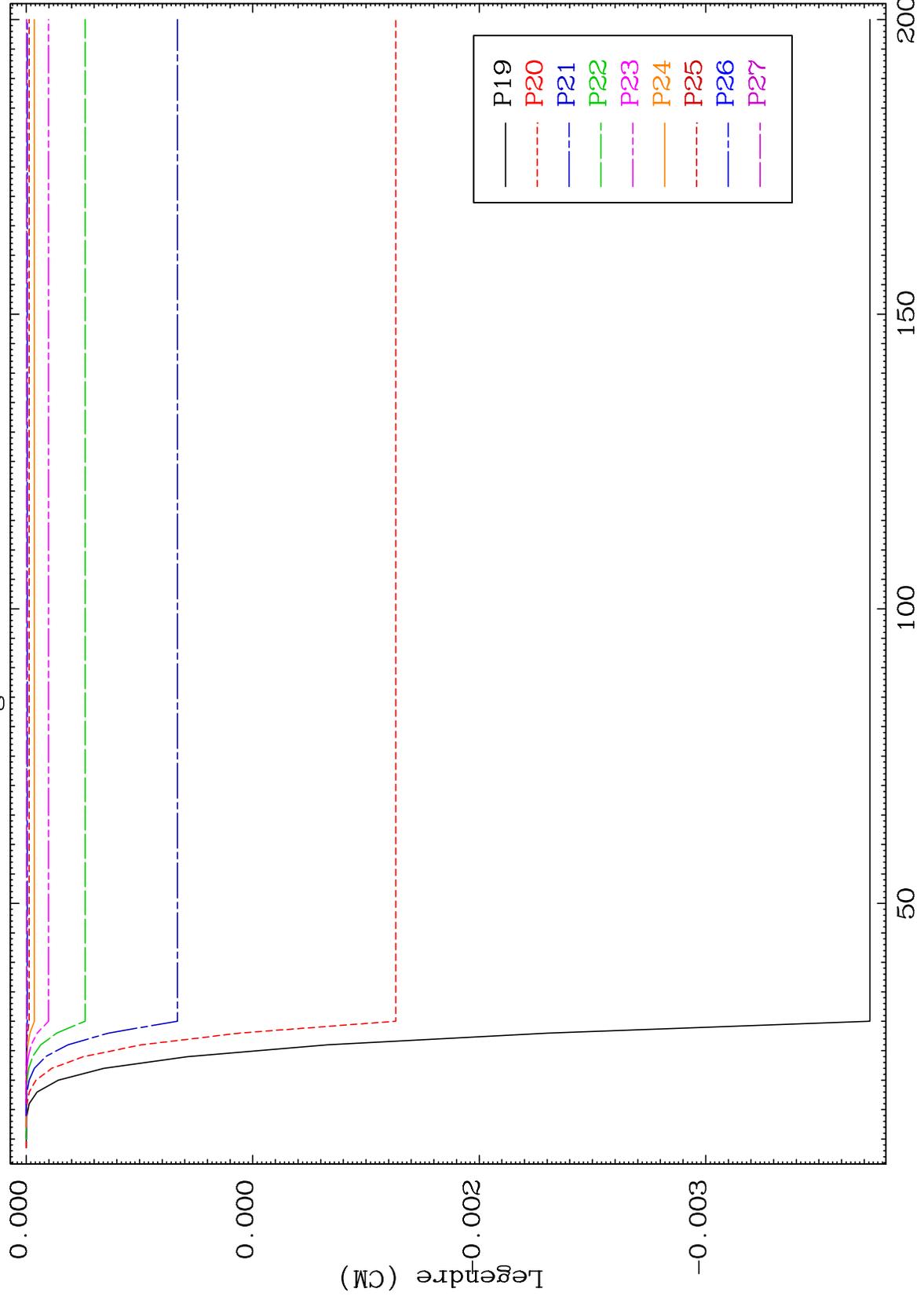
37-Rb-87



75

Incident Energy (MeV)

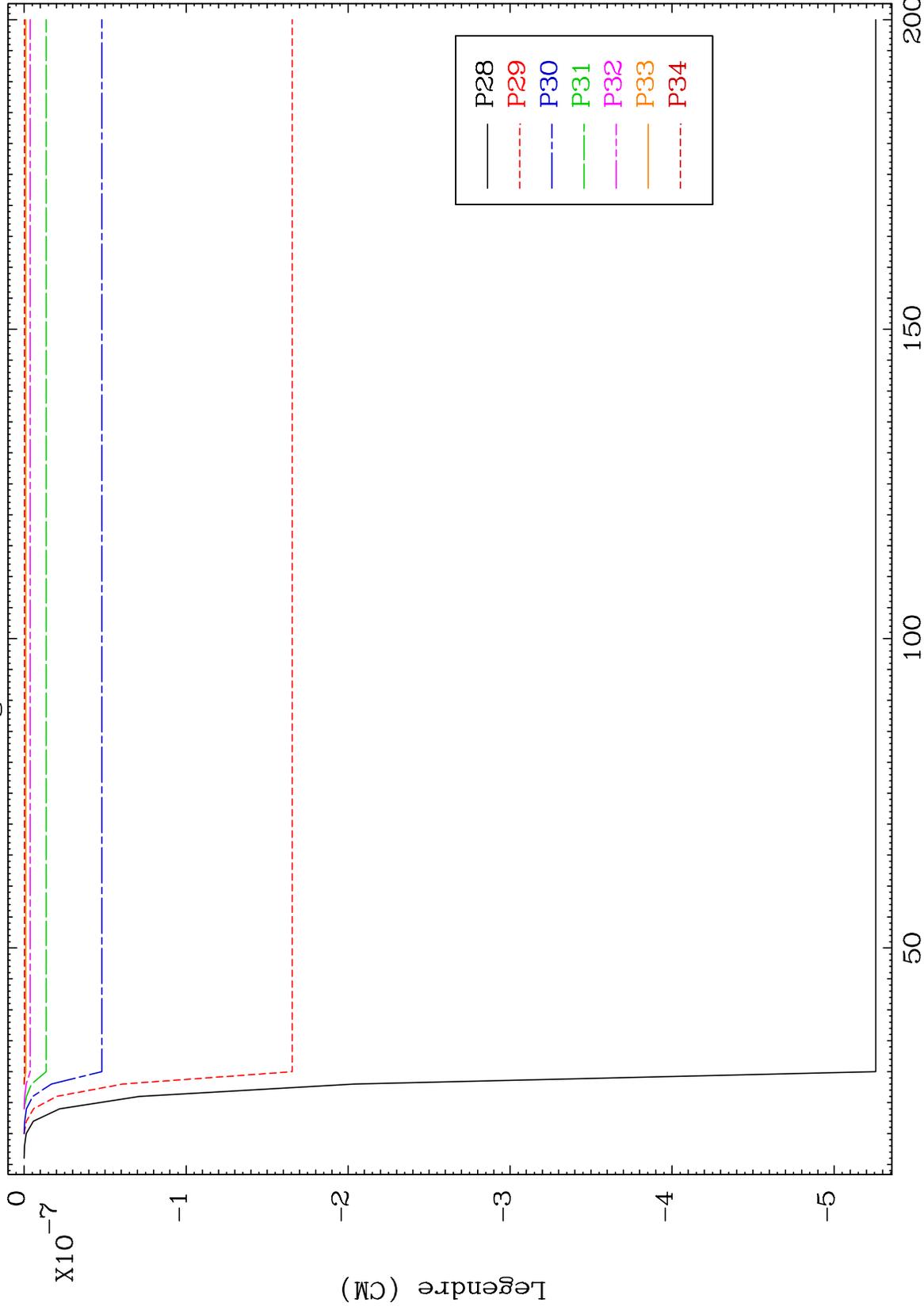
37-Rb-87



MAT 3731

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

37-Rb-87



77

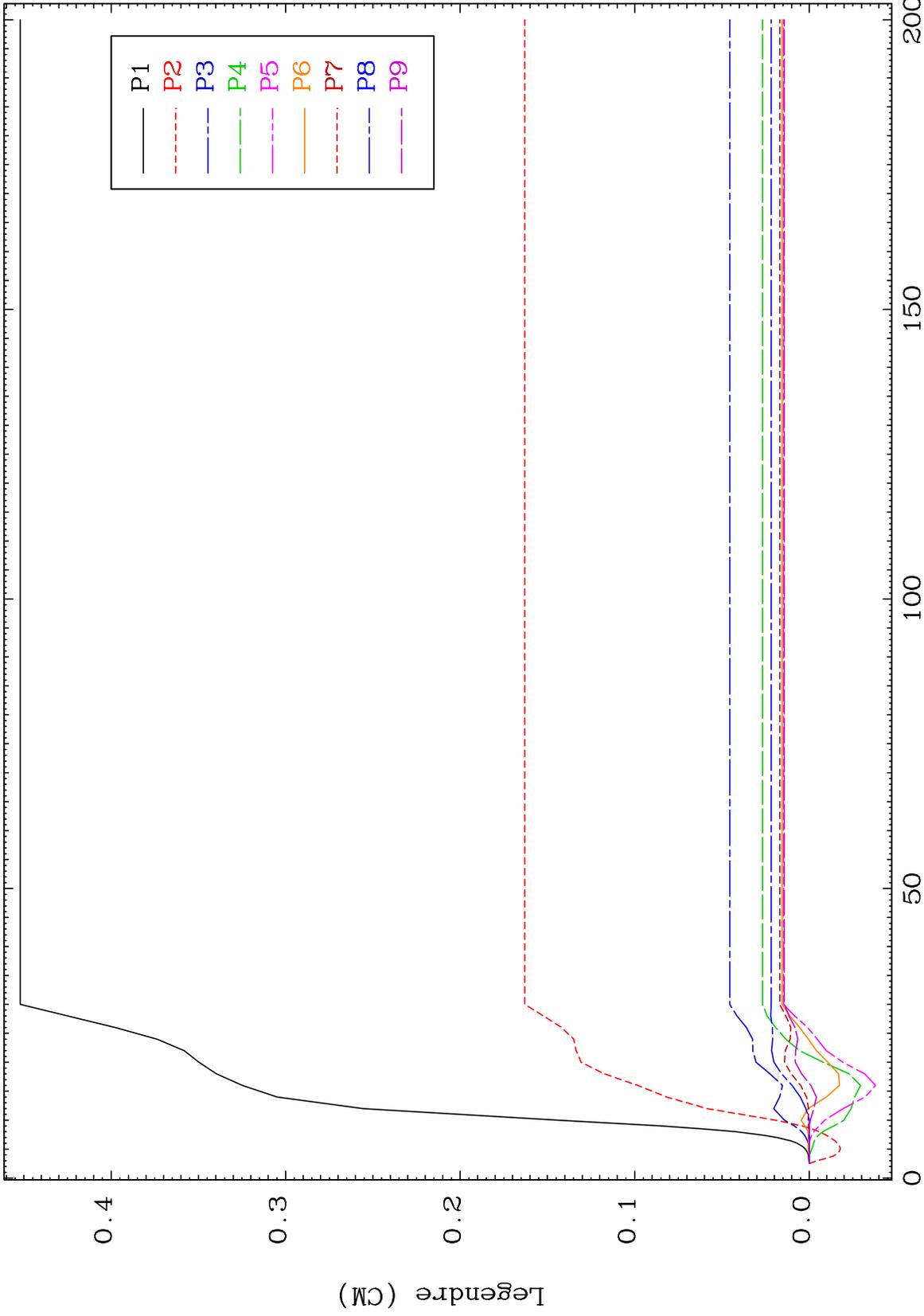
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



78

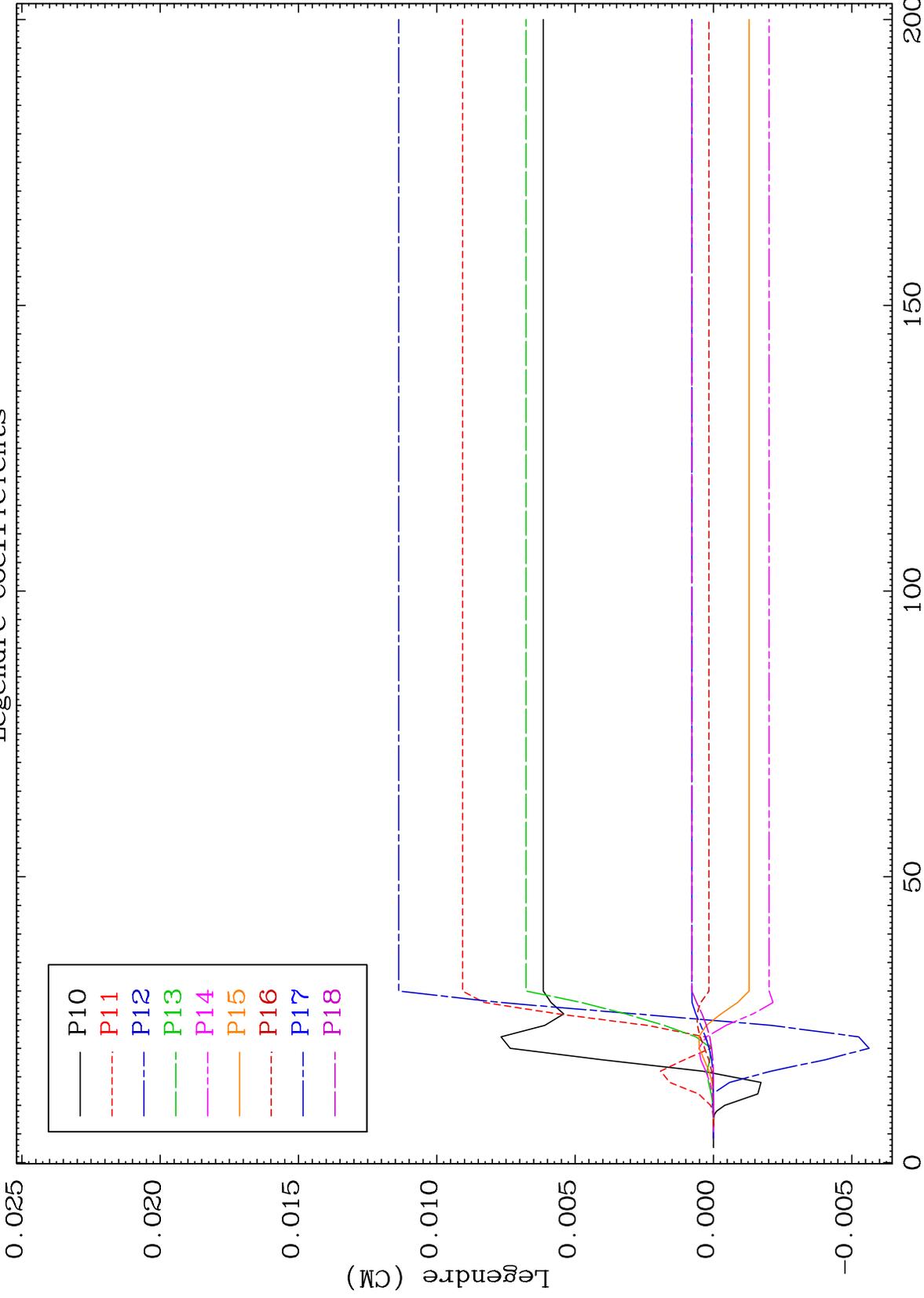
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



79

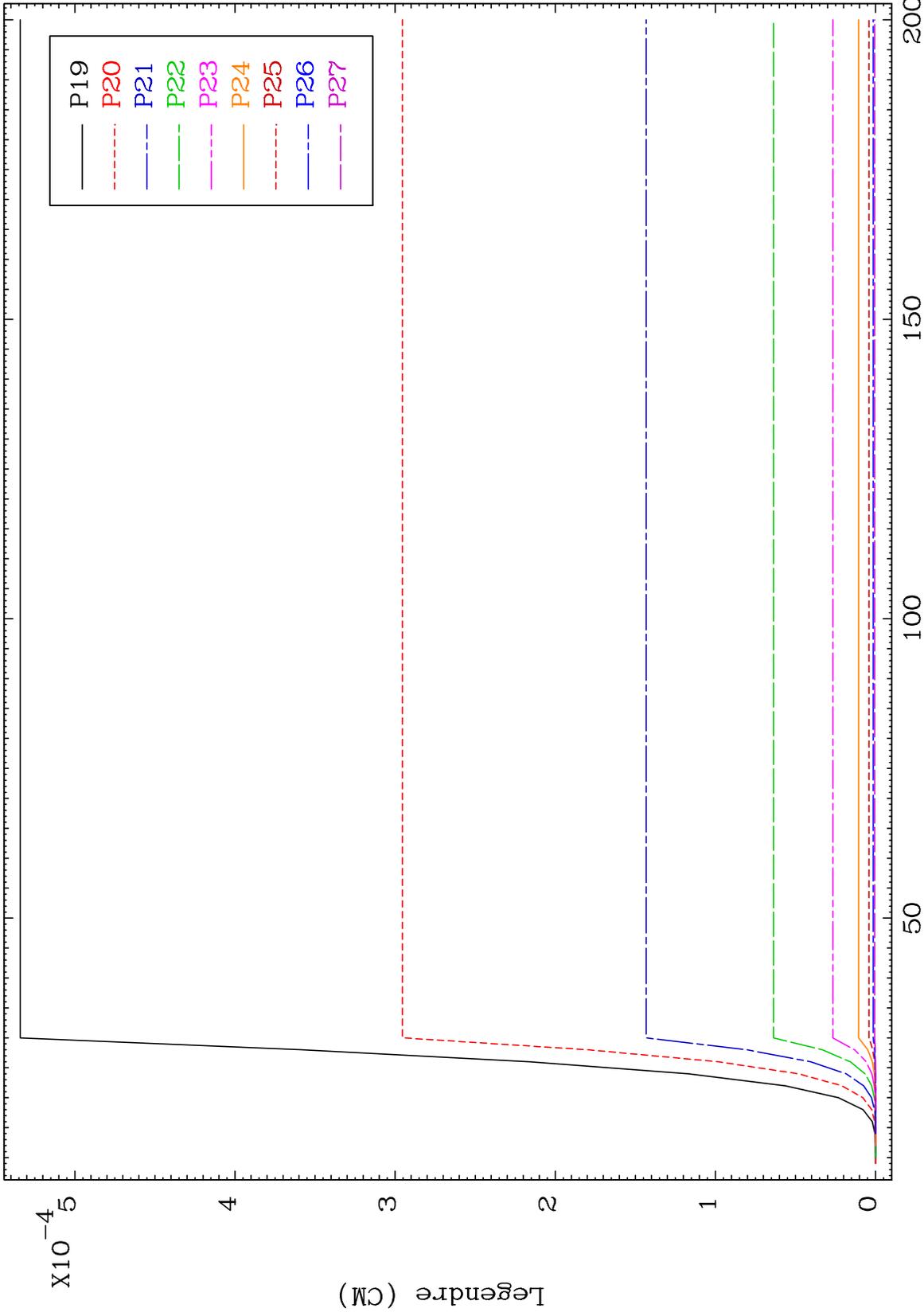
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



80

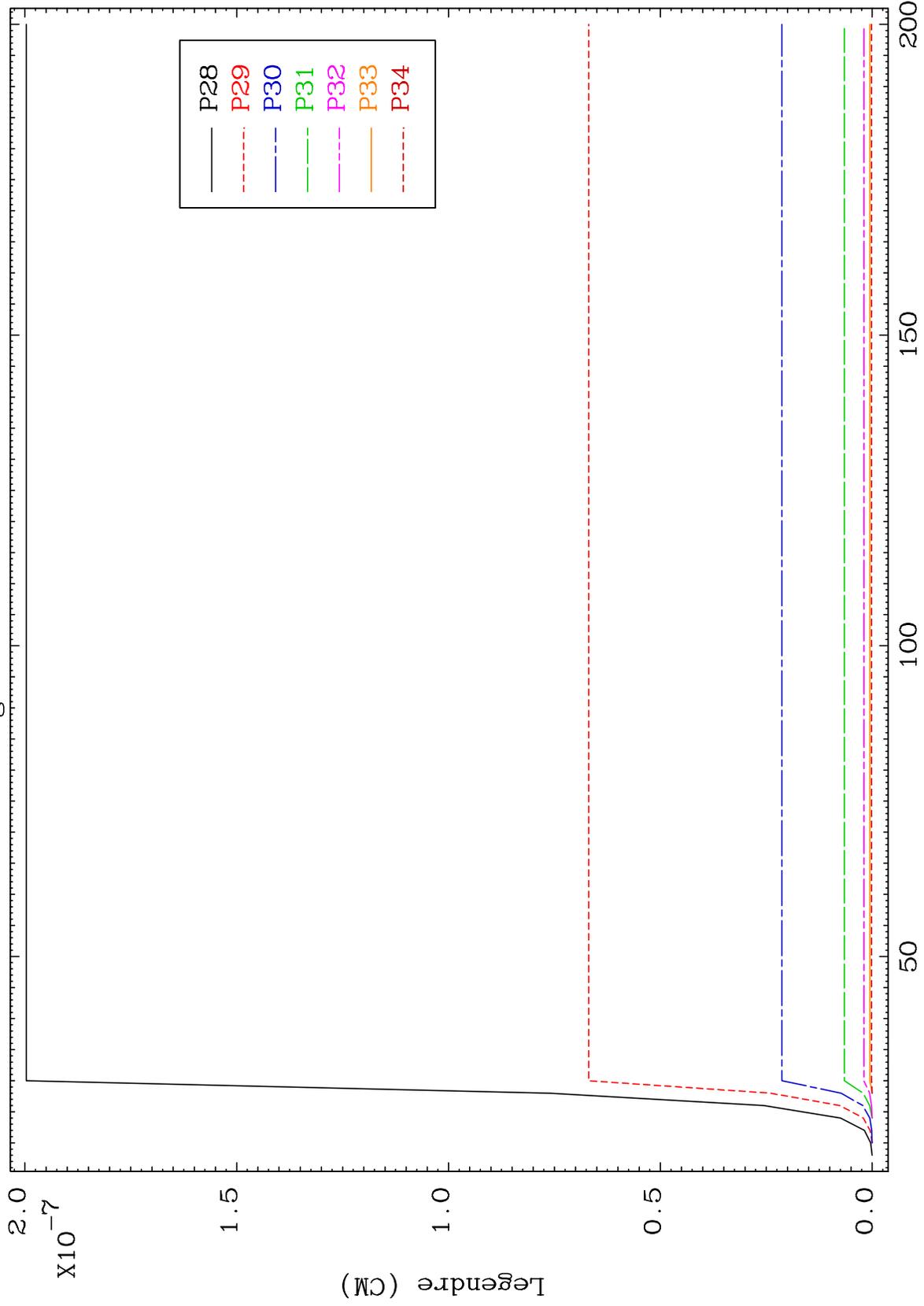
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



81

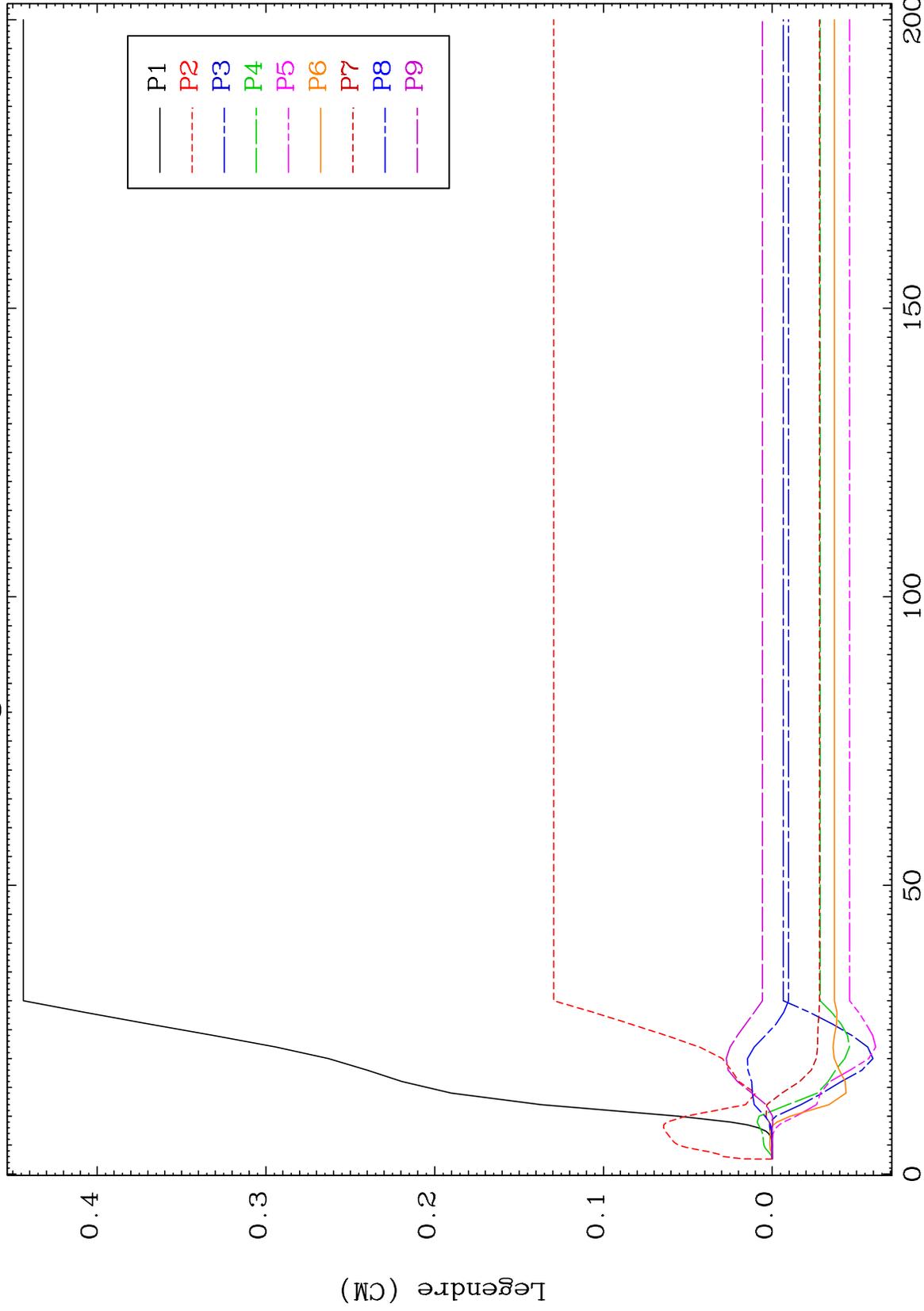
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

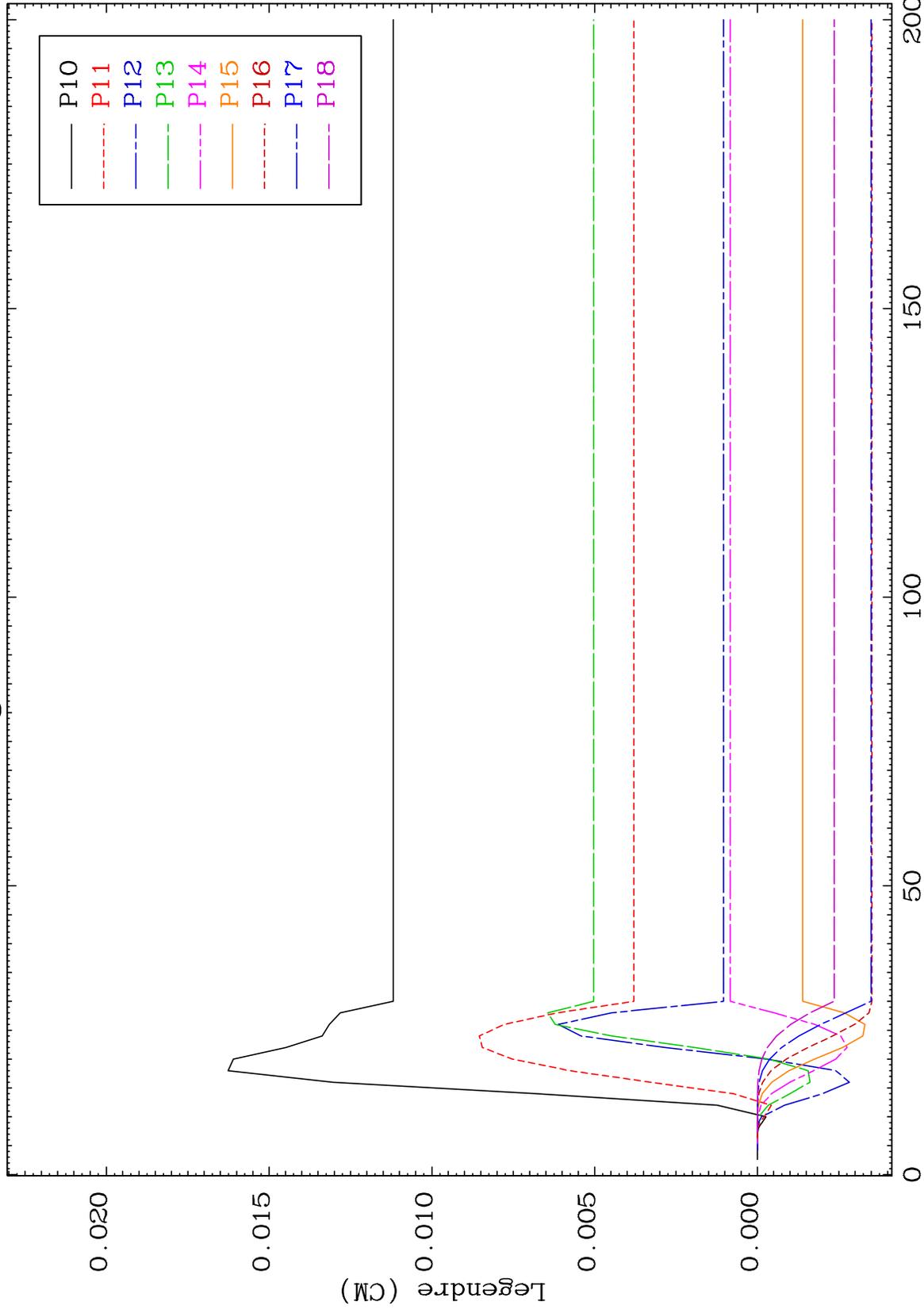
37-Rb-87



82

Incident Energy (MeV)

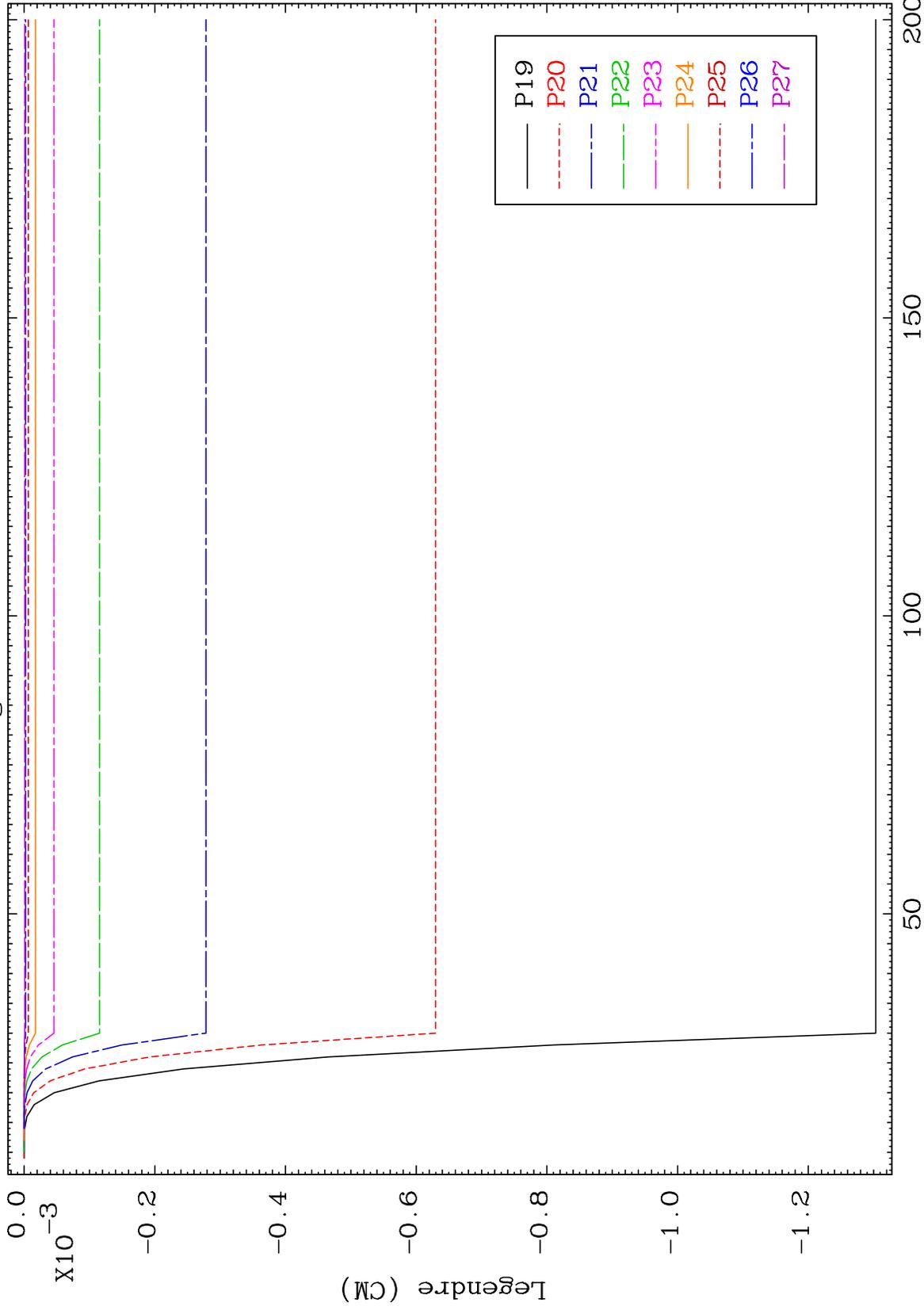
37-Rb-87



MAT 3731

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

37-Rb-87



84

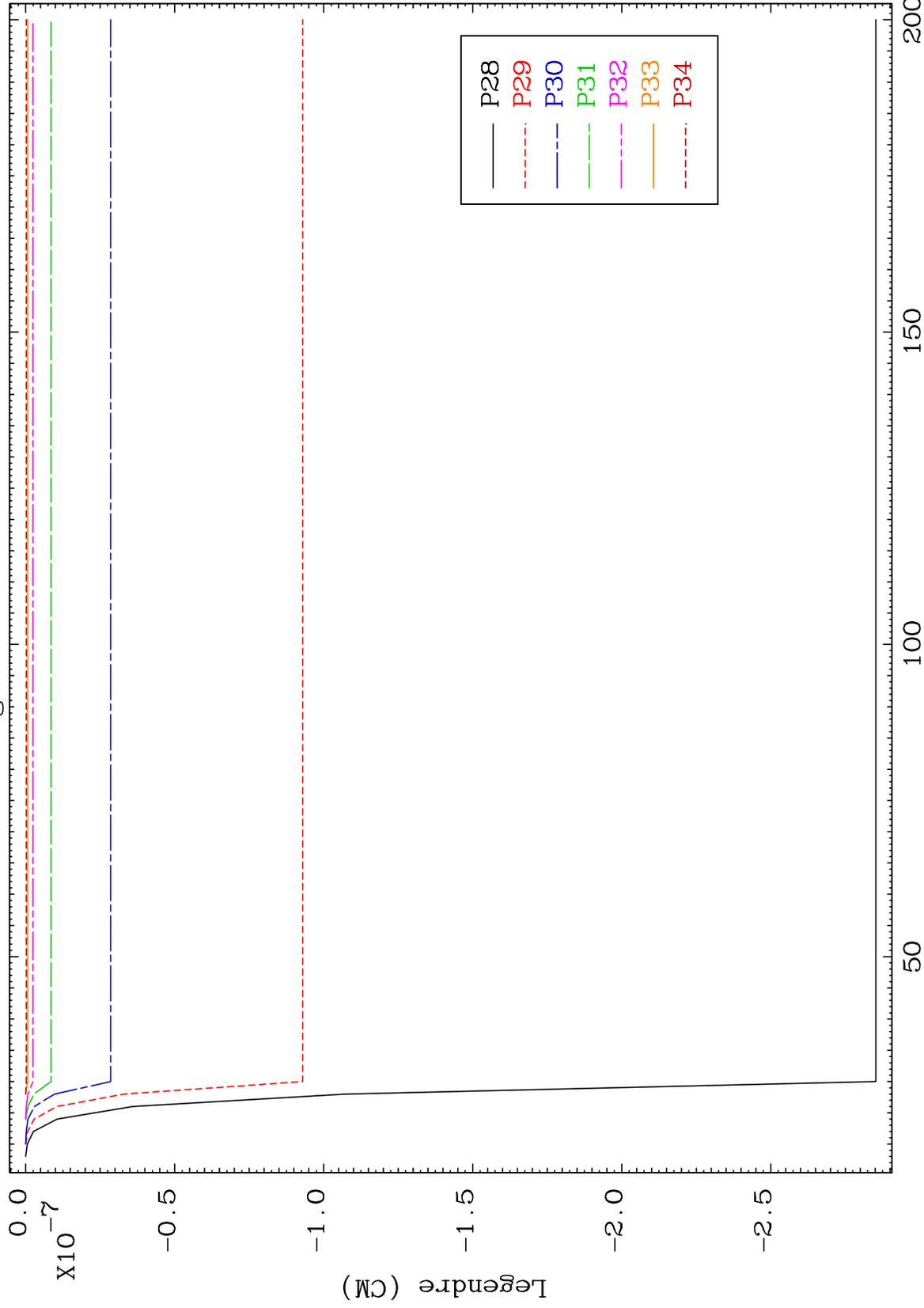
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



85

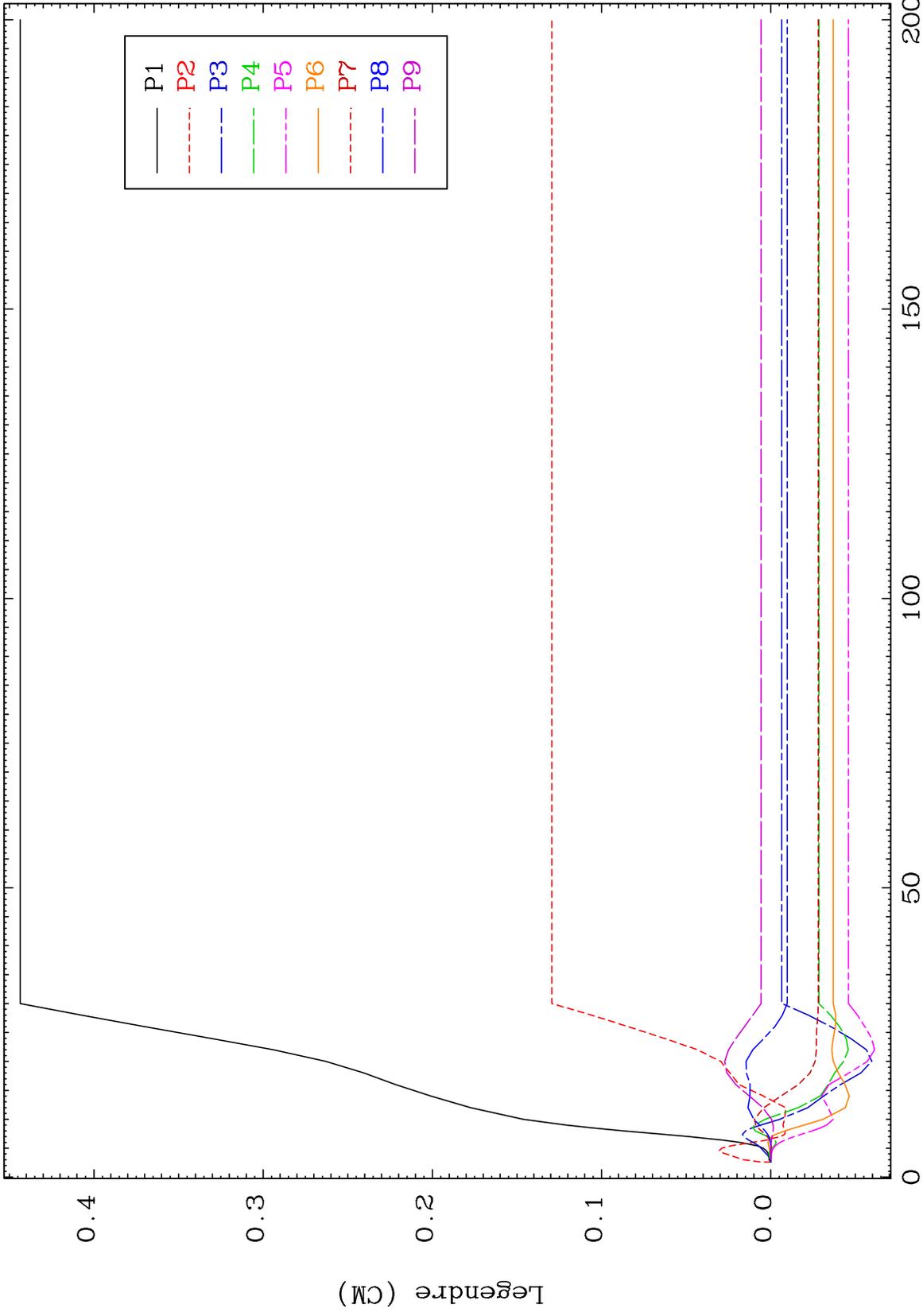
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



86

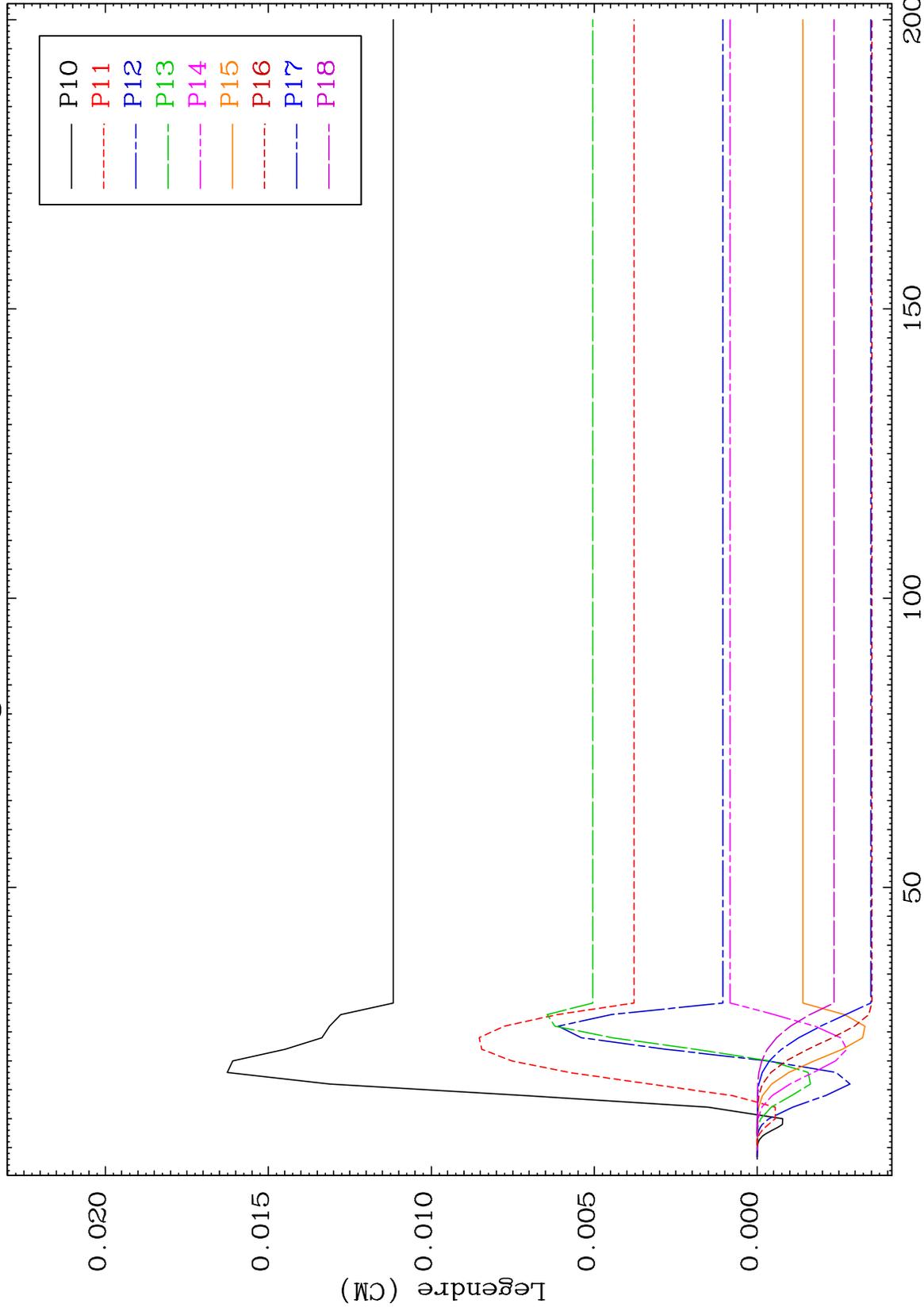
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



87

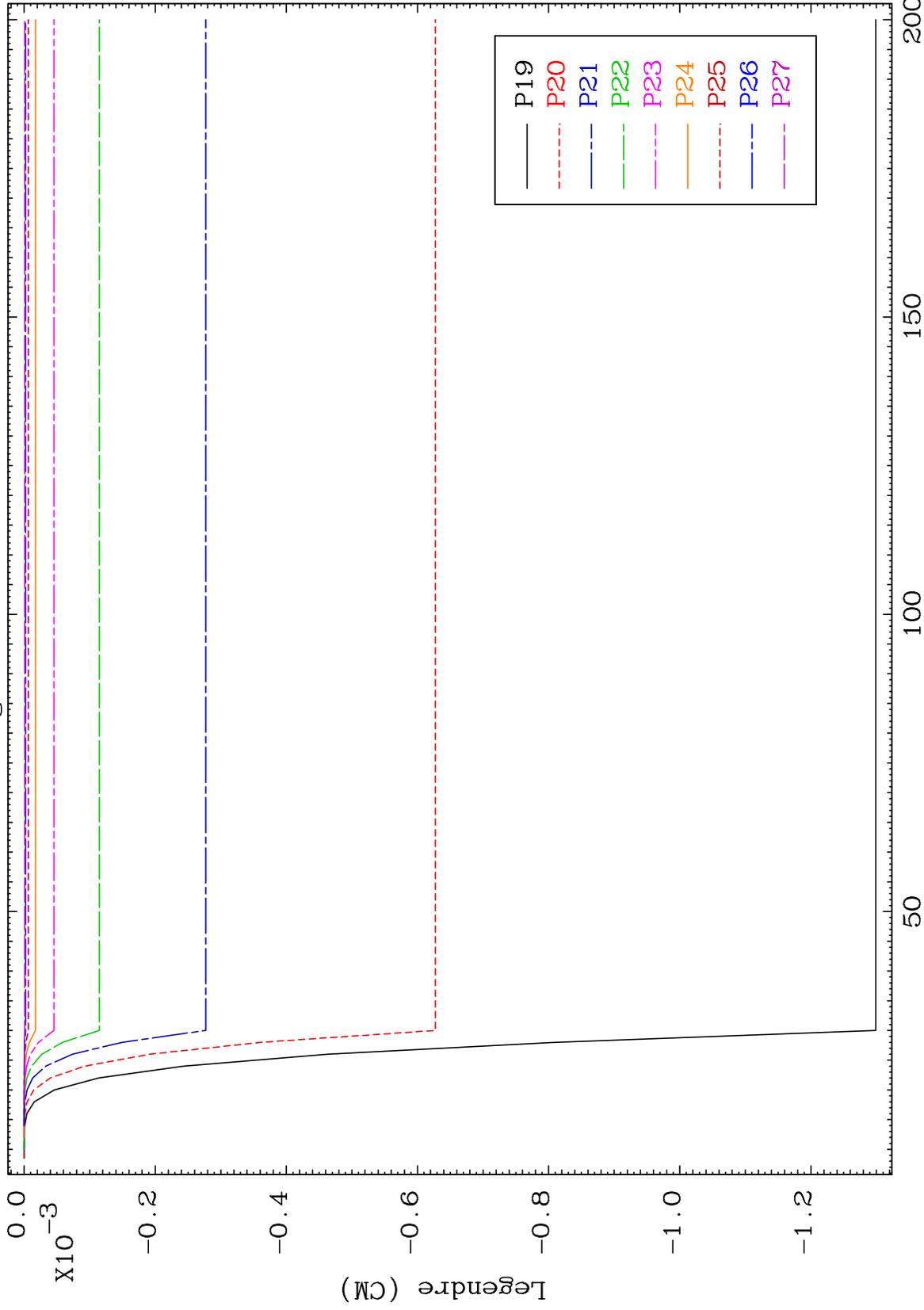
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



88

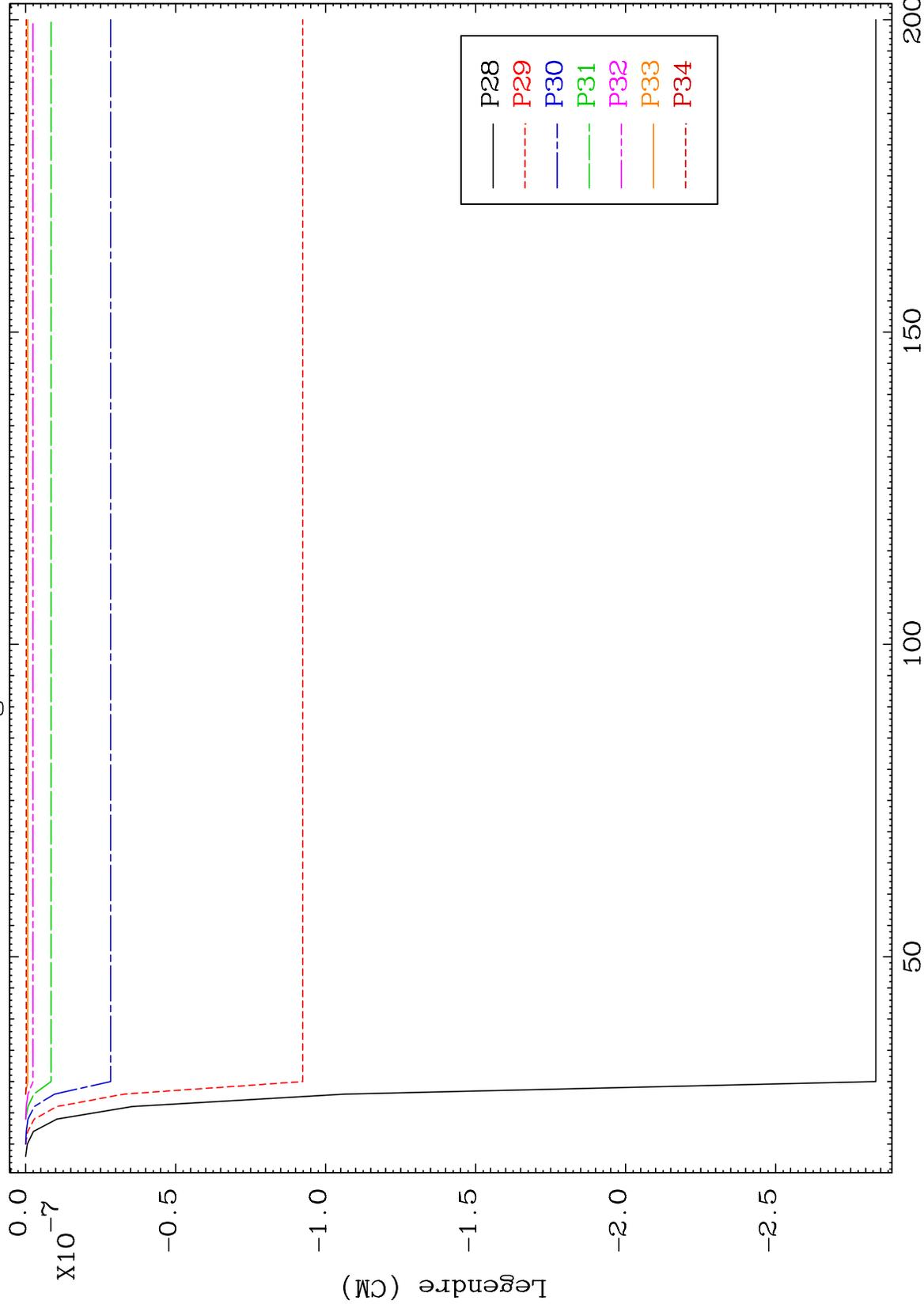
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



89

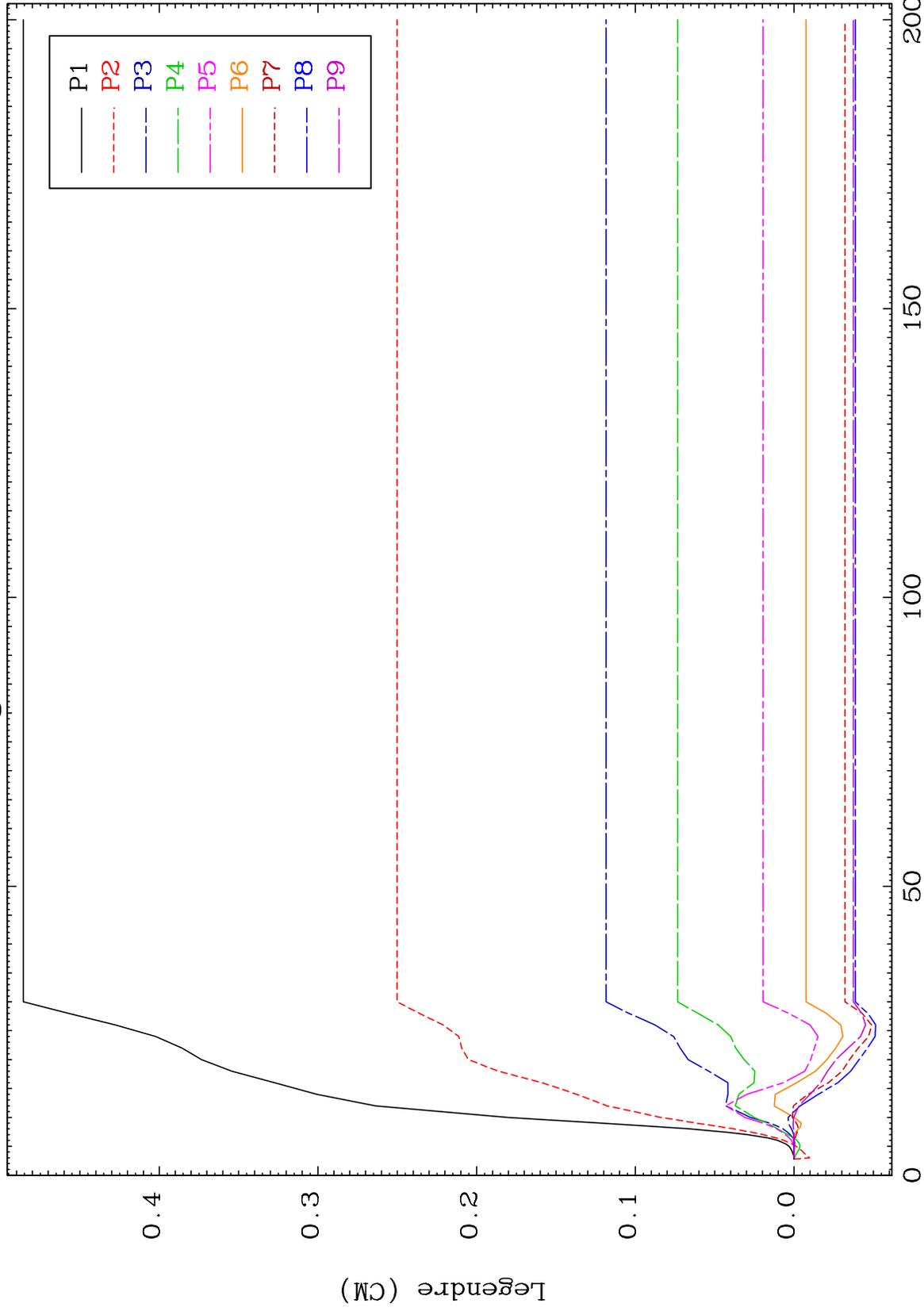
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



90

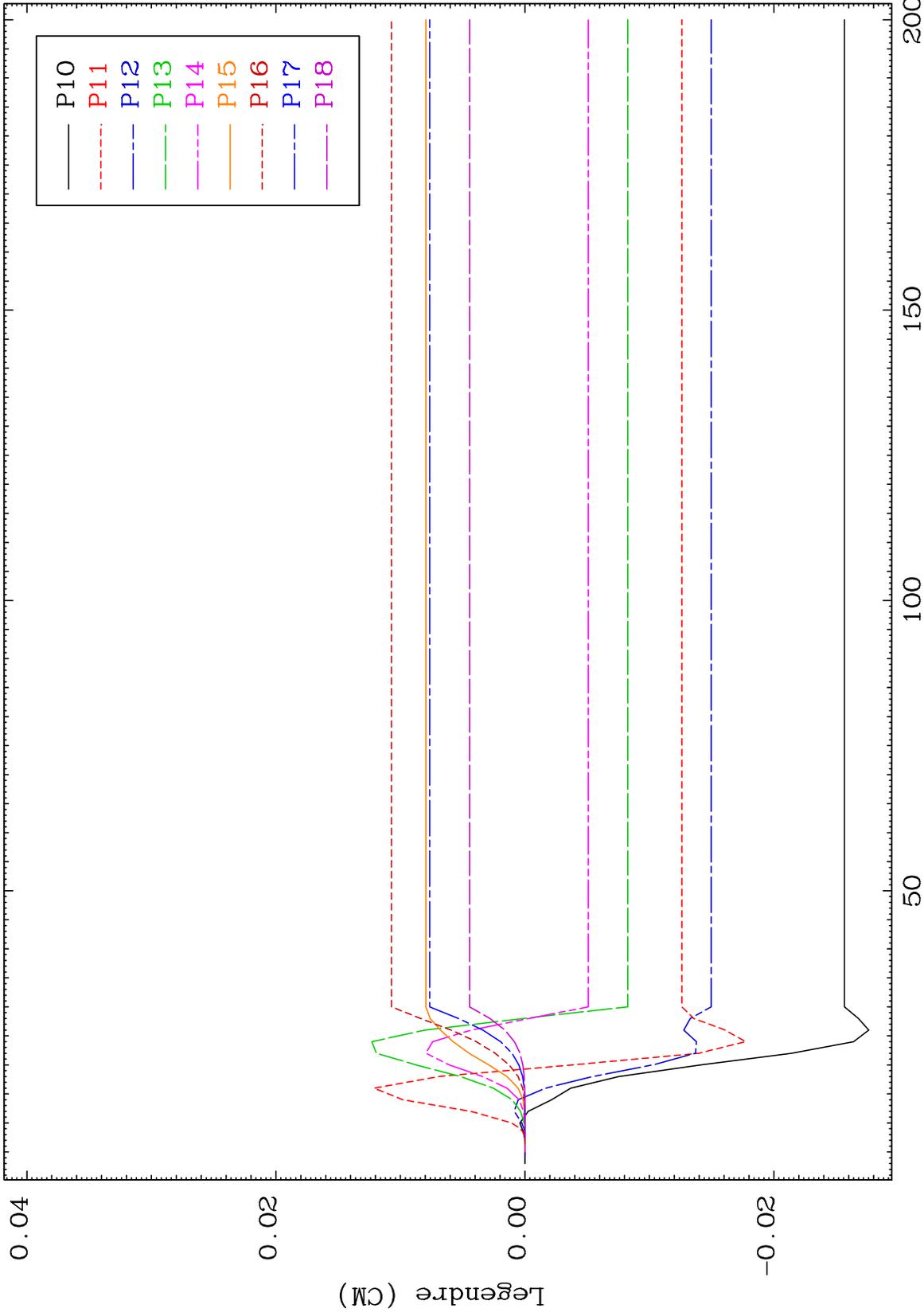
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



91

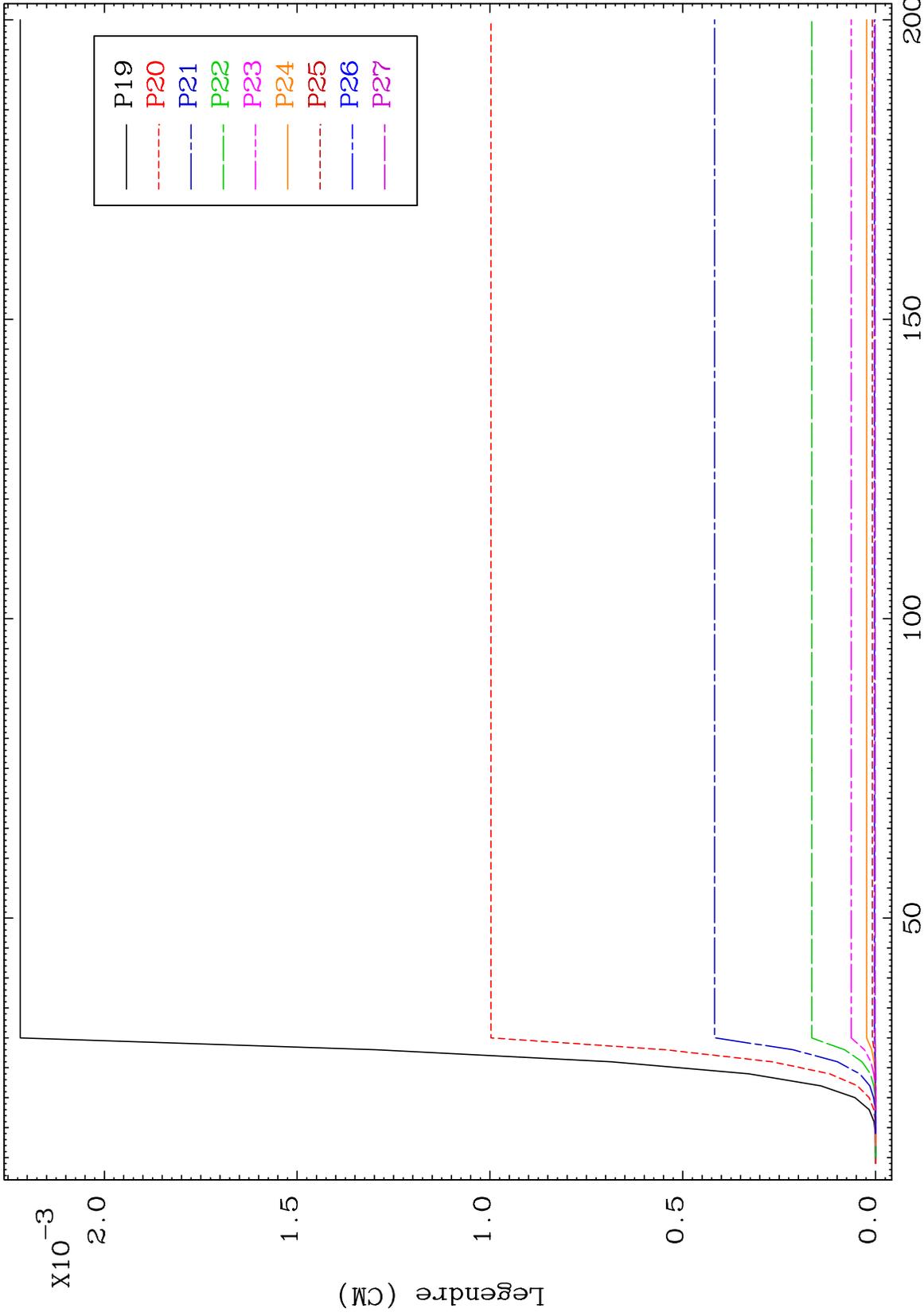
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



92

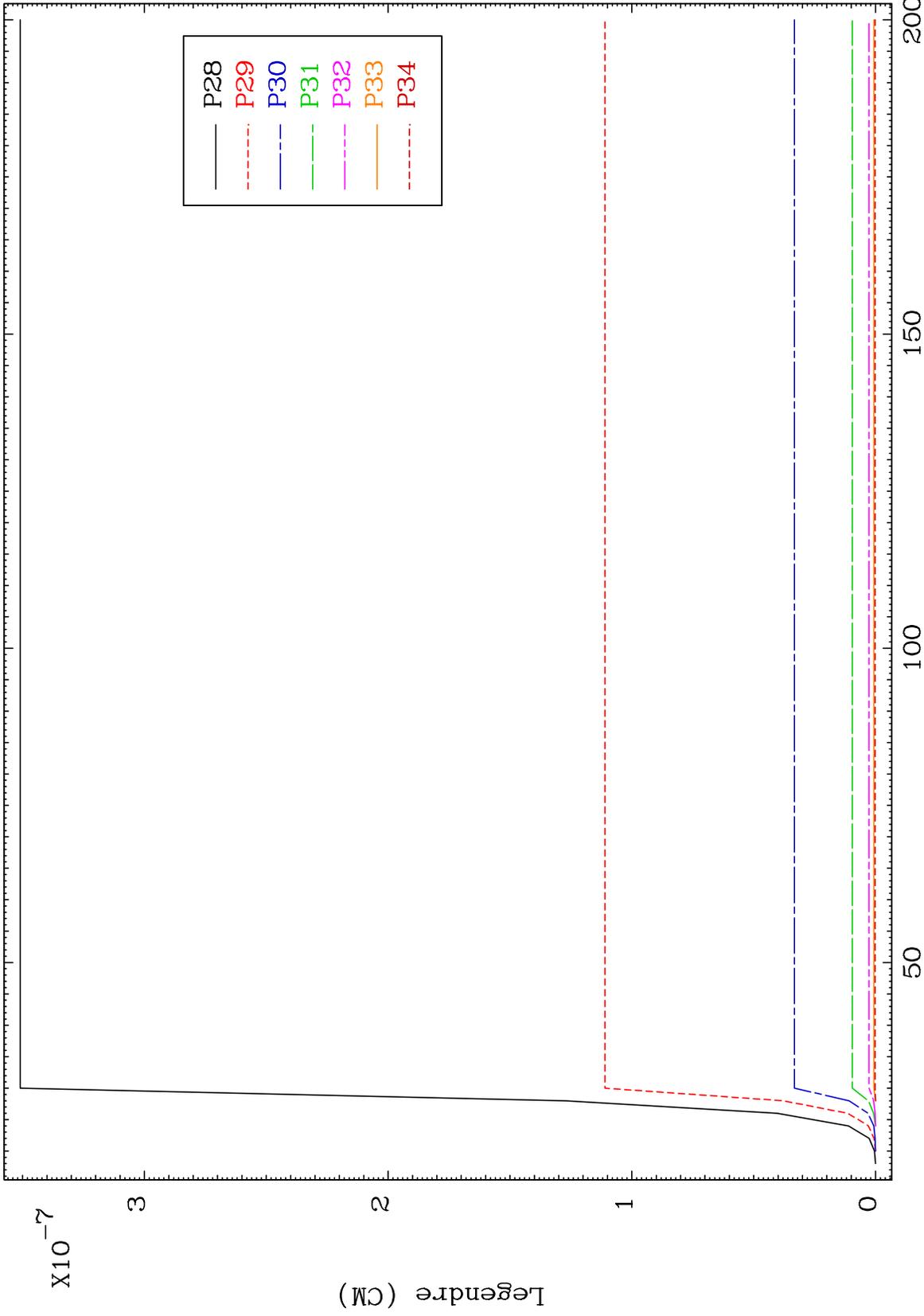
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

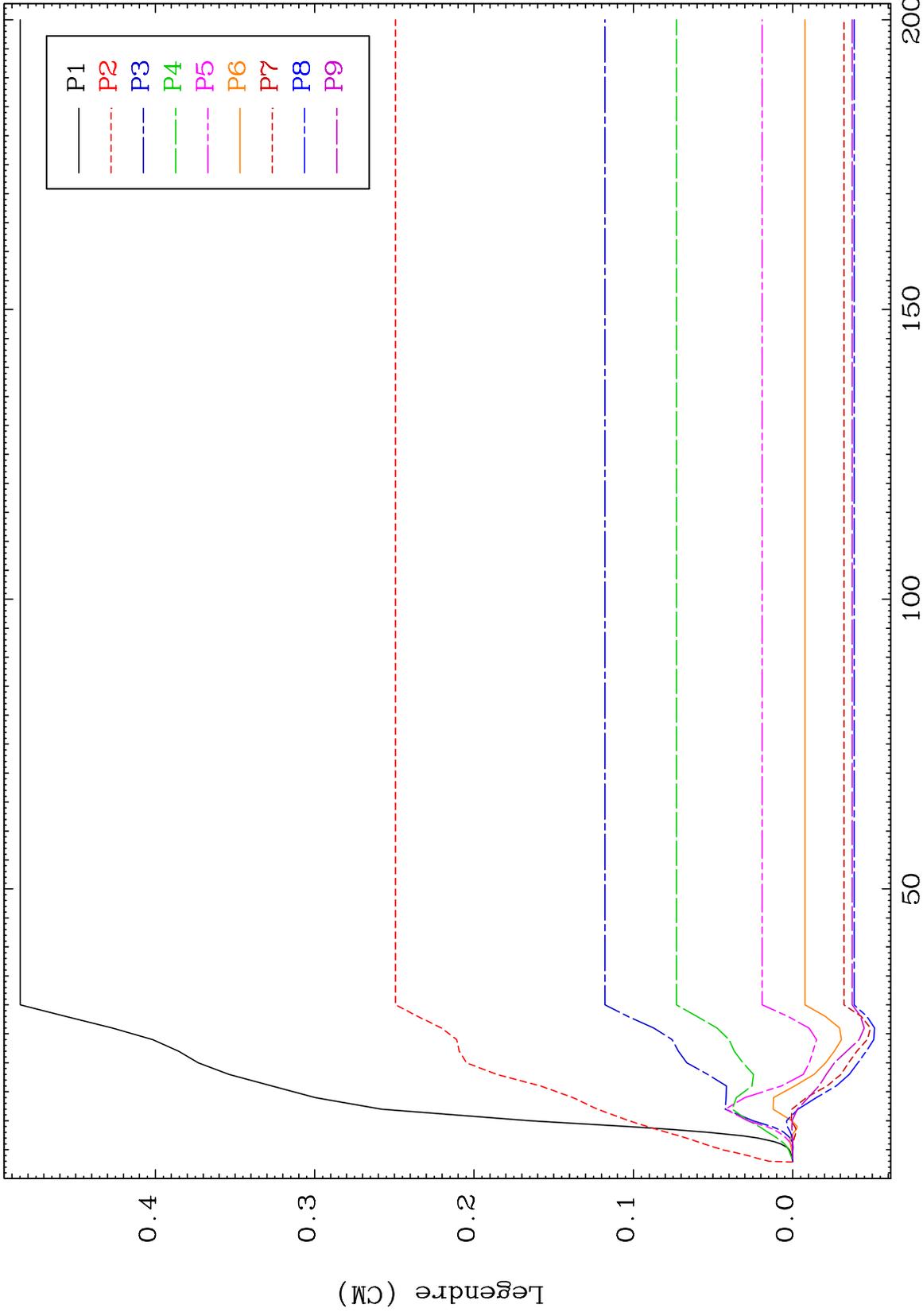
37-Rb-87



MAT 3731

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

37-Rb-87



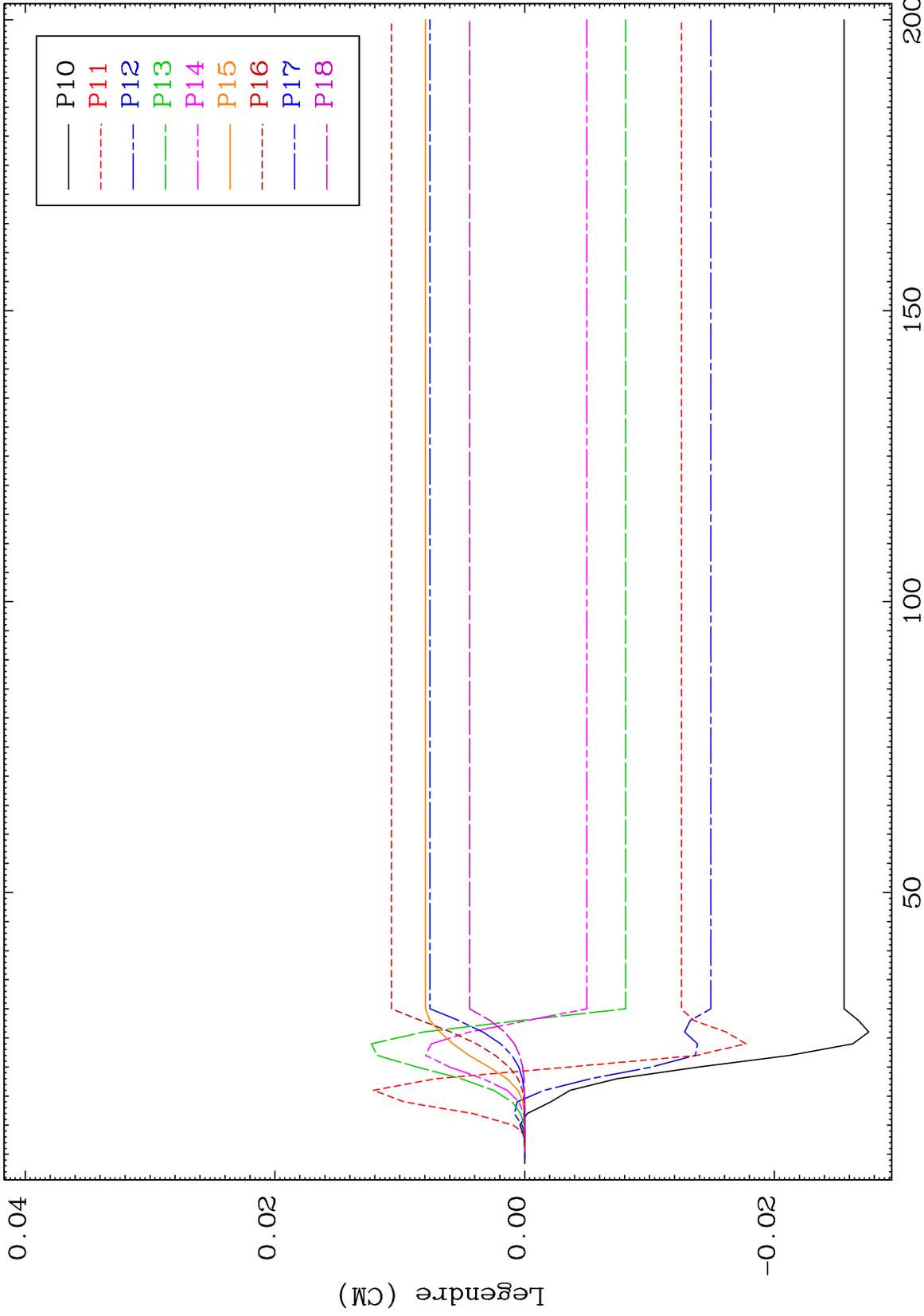
94

37-Rb-87

MAT 3731

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

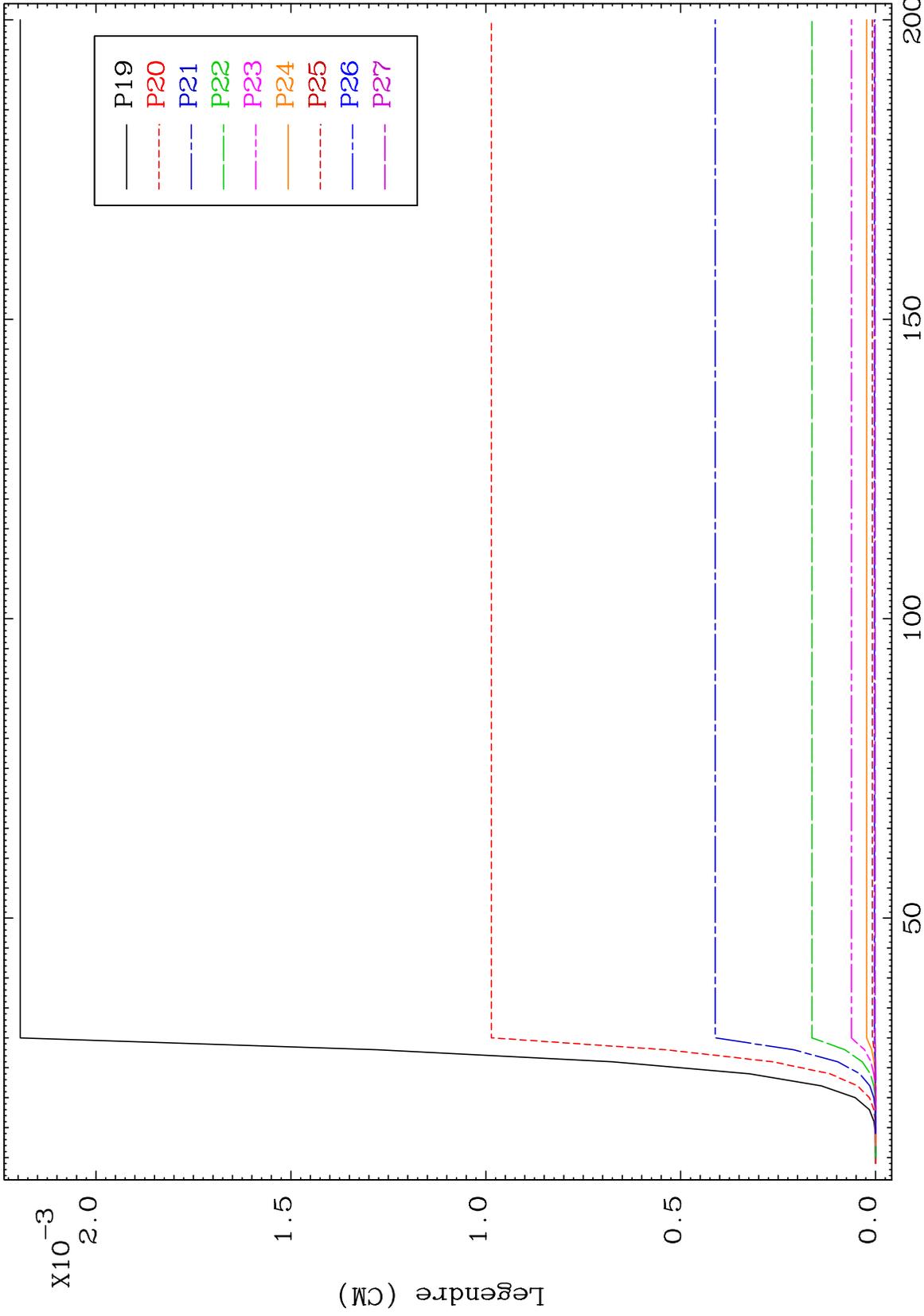
37-Rb-87



95

Incident Energy (MeV)

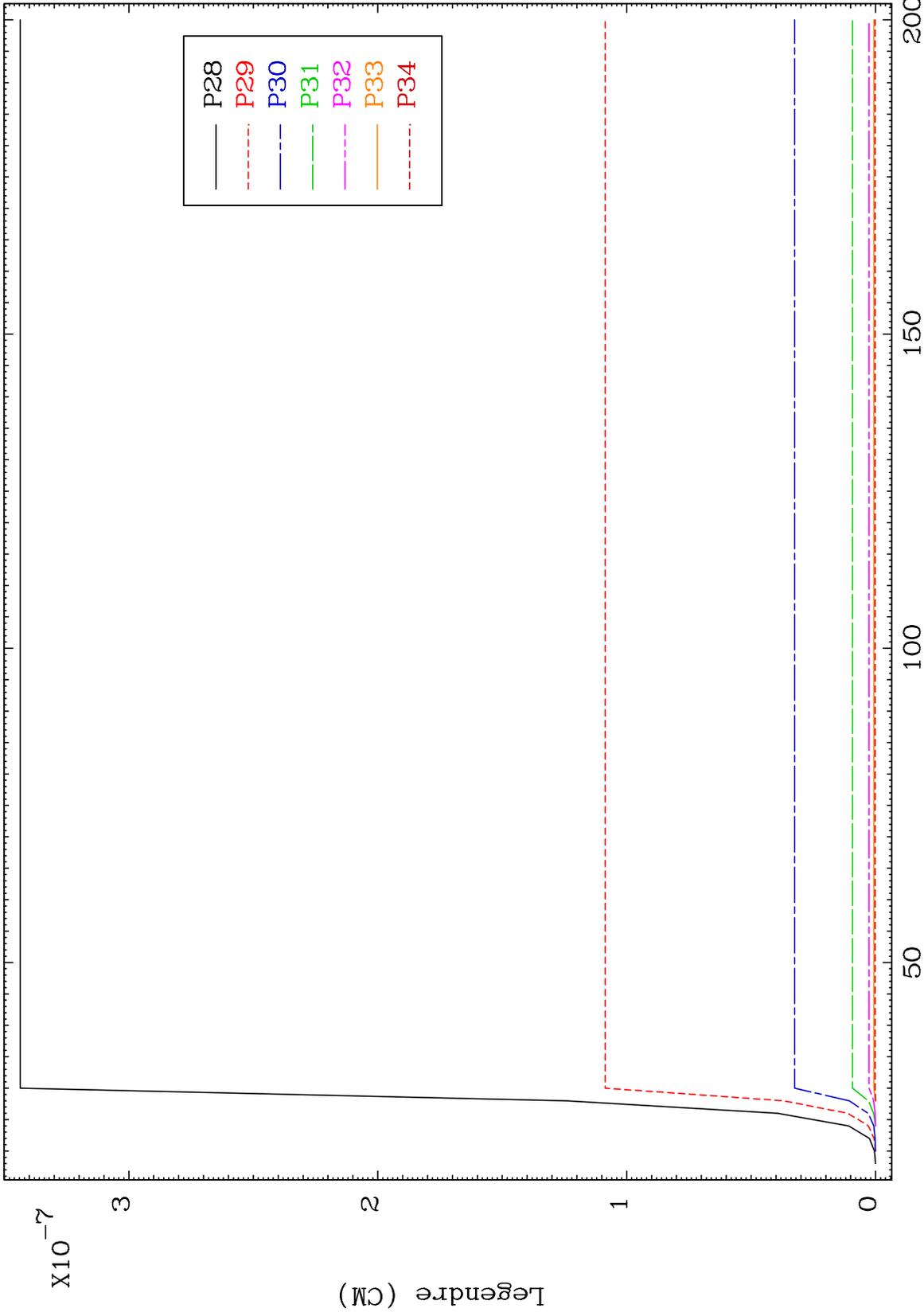
37-Rb-87



MAT 3731

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

37-Rb-87



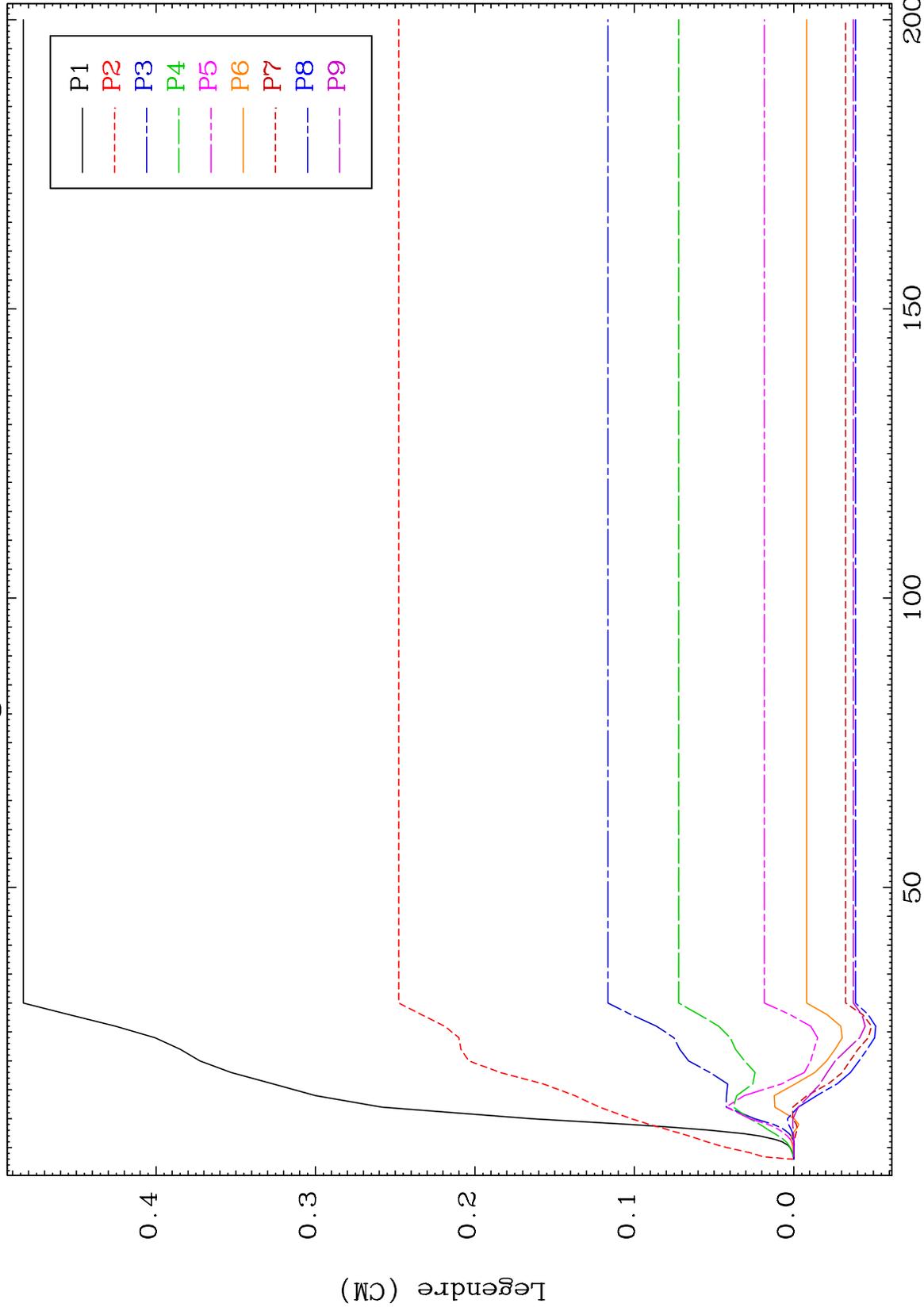
97

37-Rb-87

MAT 3731

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

37-Rb-87



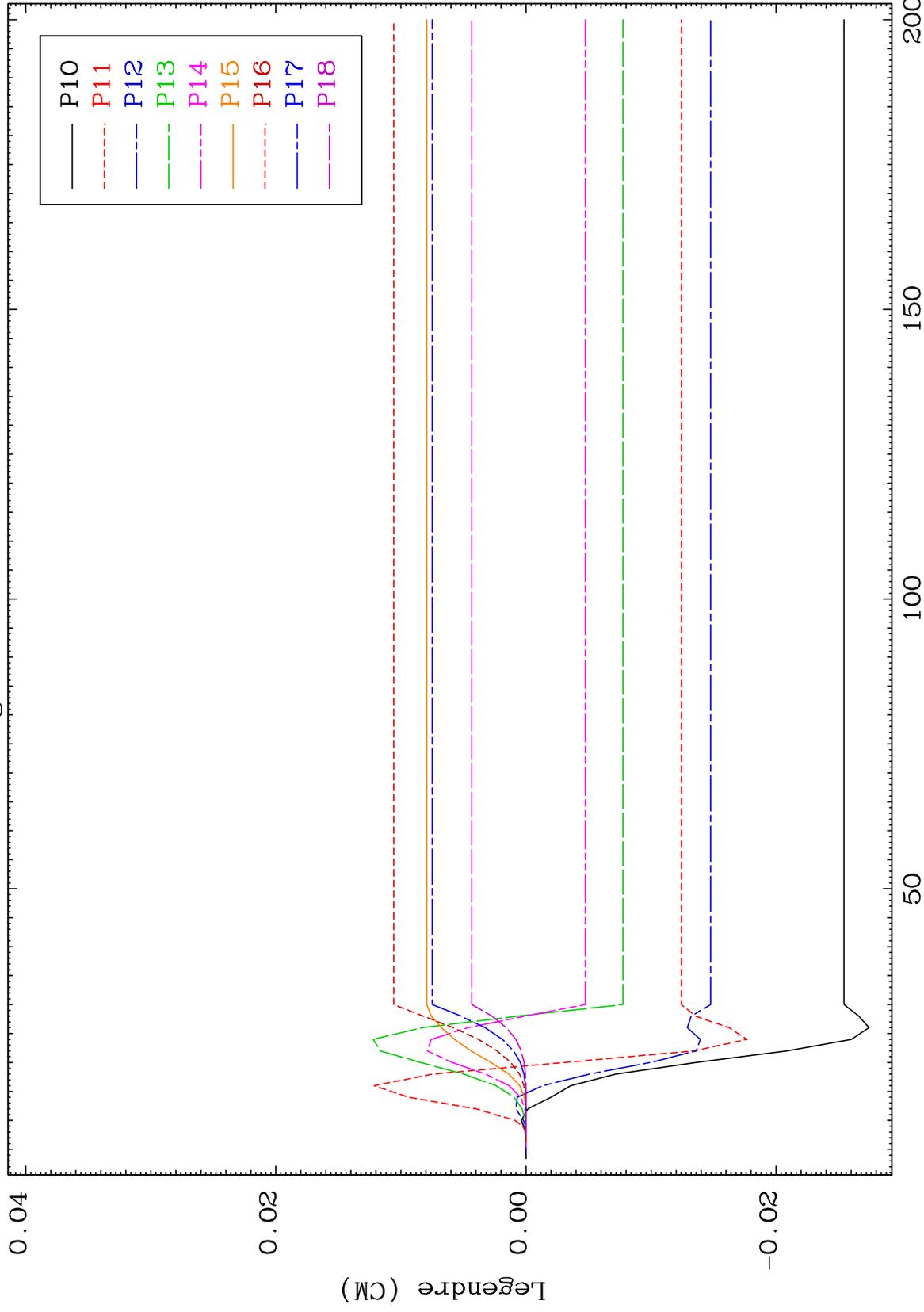
98

37-Rb-87

MAT 3731

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

37-Rb-87



99

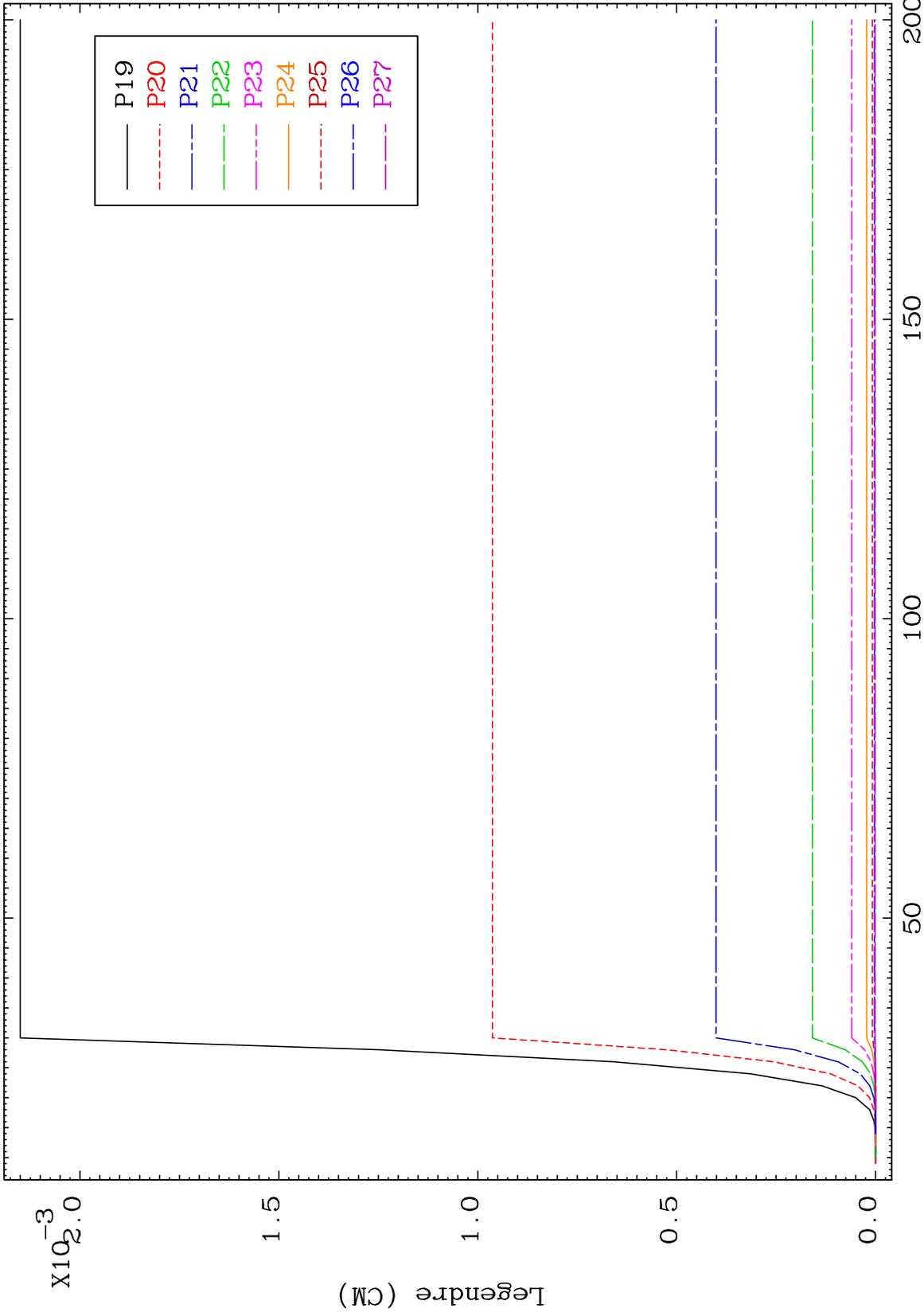
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



100

50

100

150

200

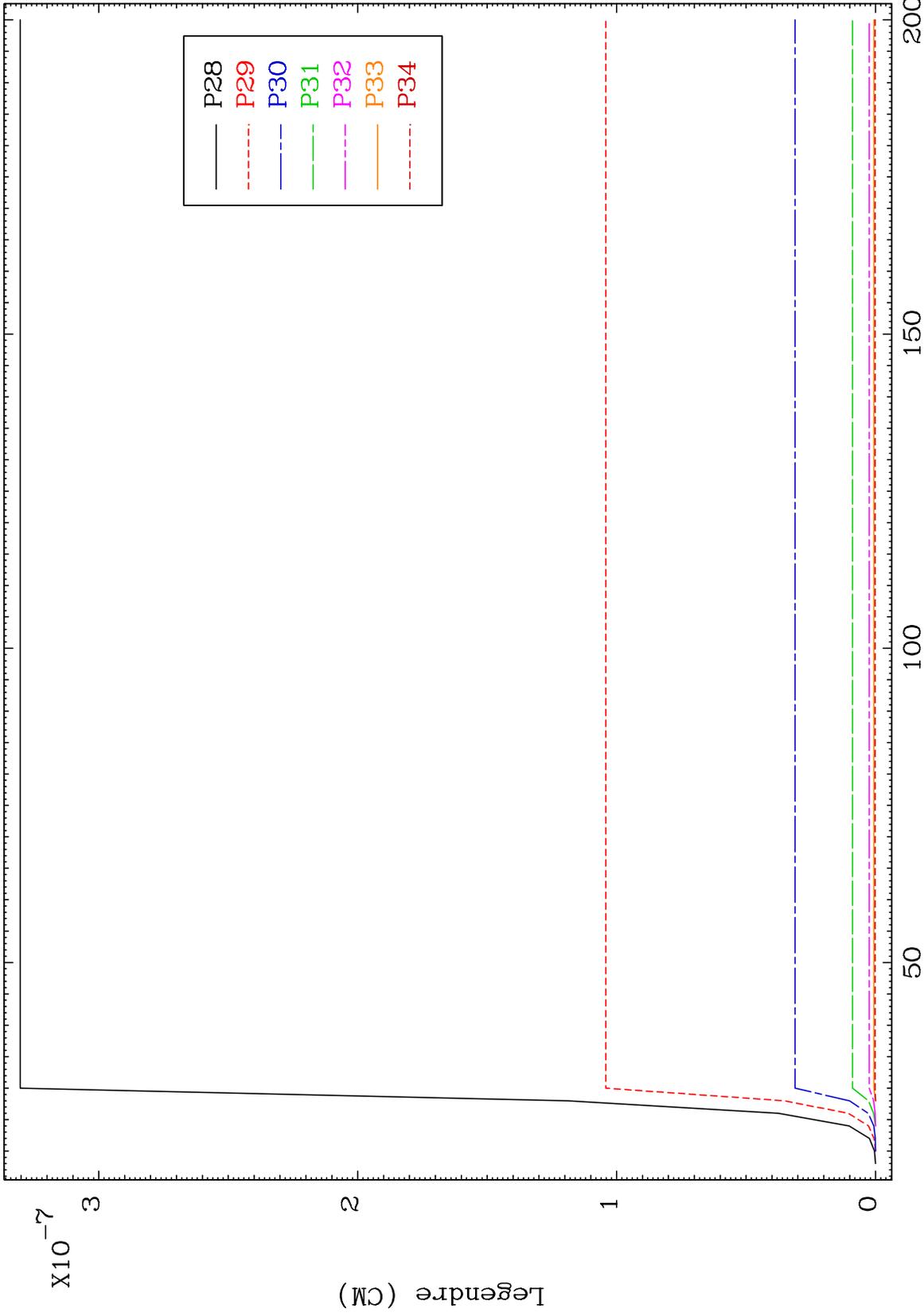
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



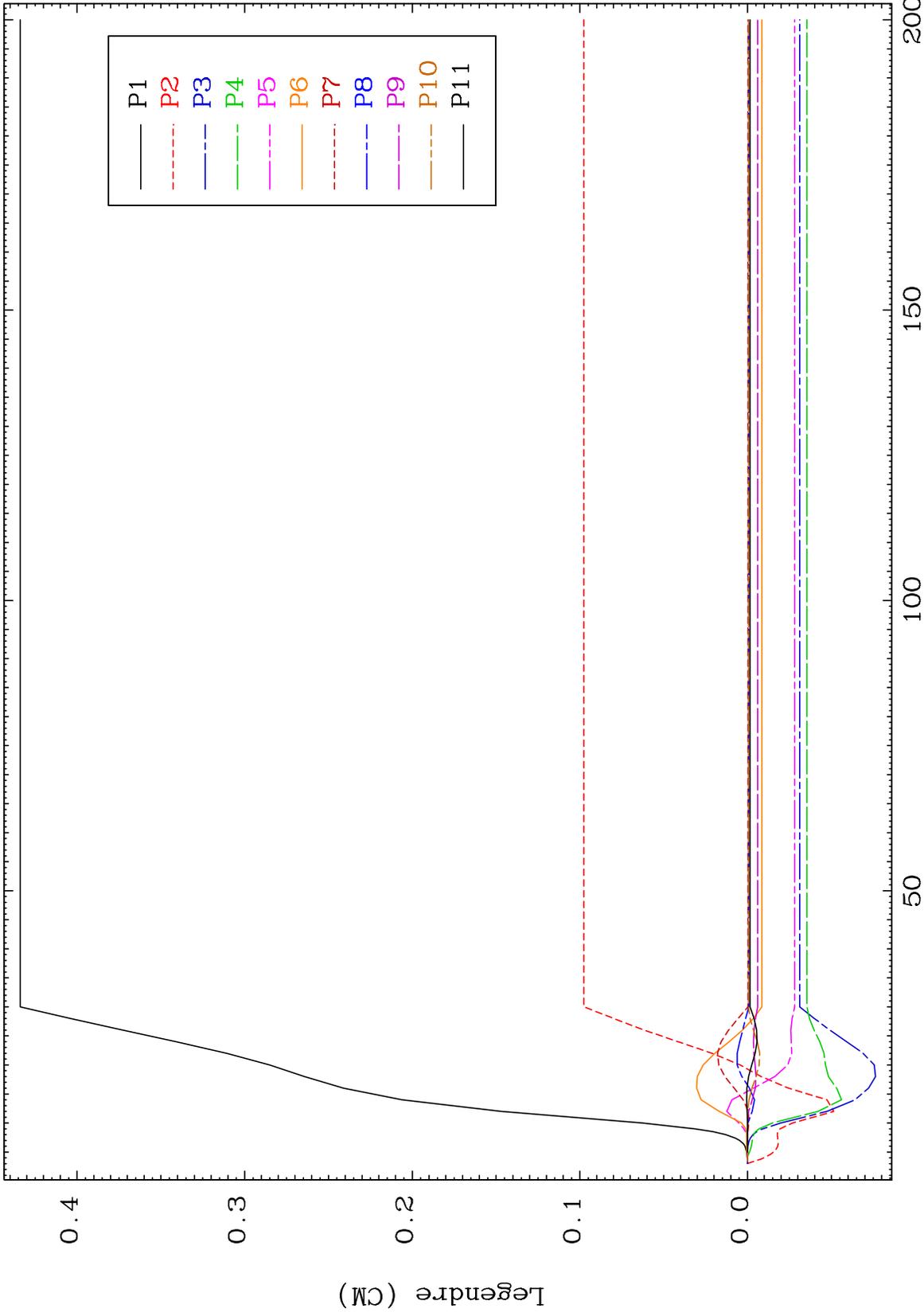
101

37-Rb-87

MAT 3731

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

37-Rb-87



102

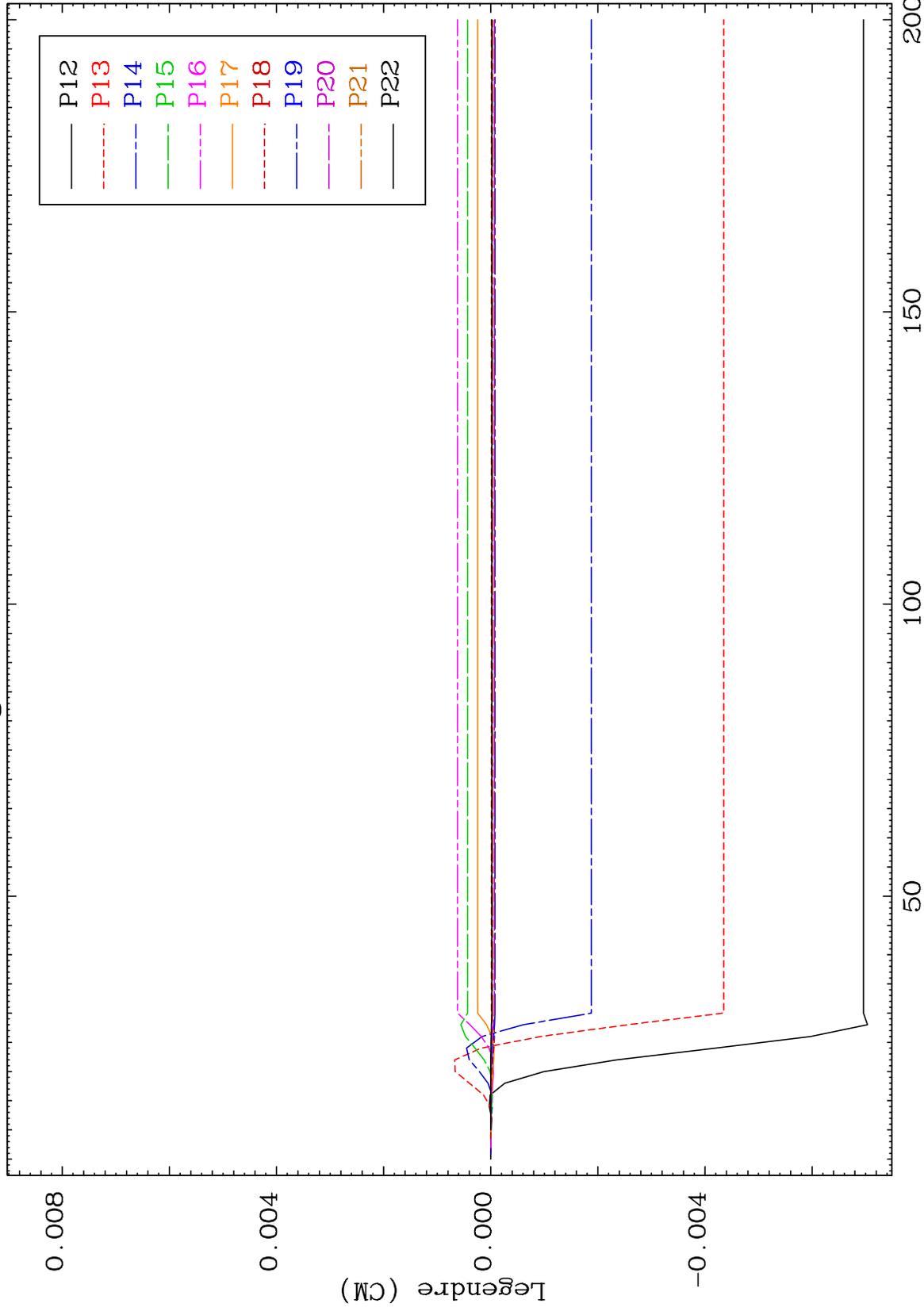
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



103

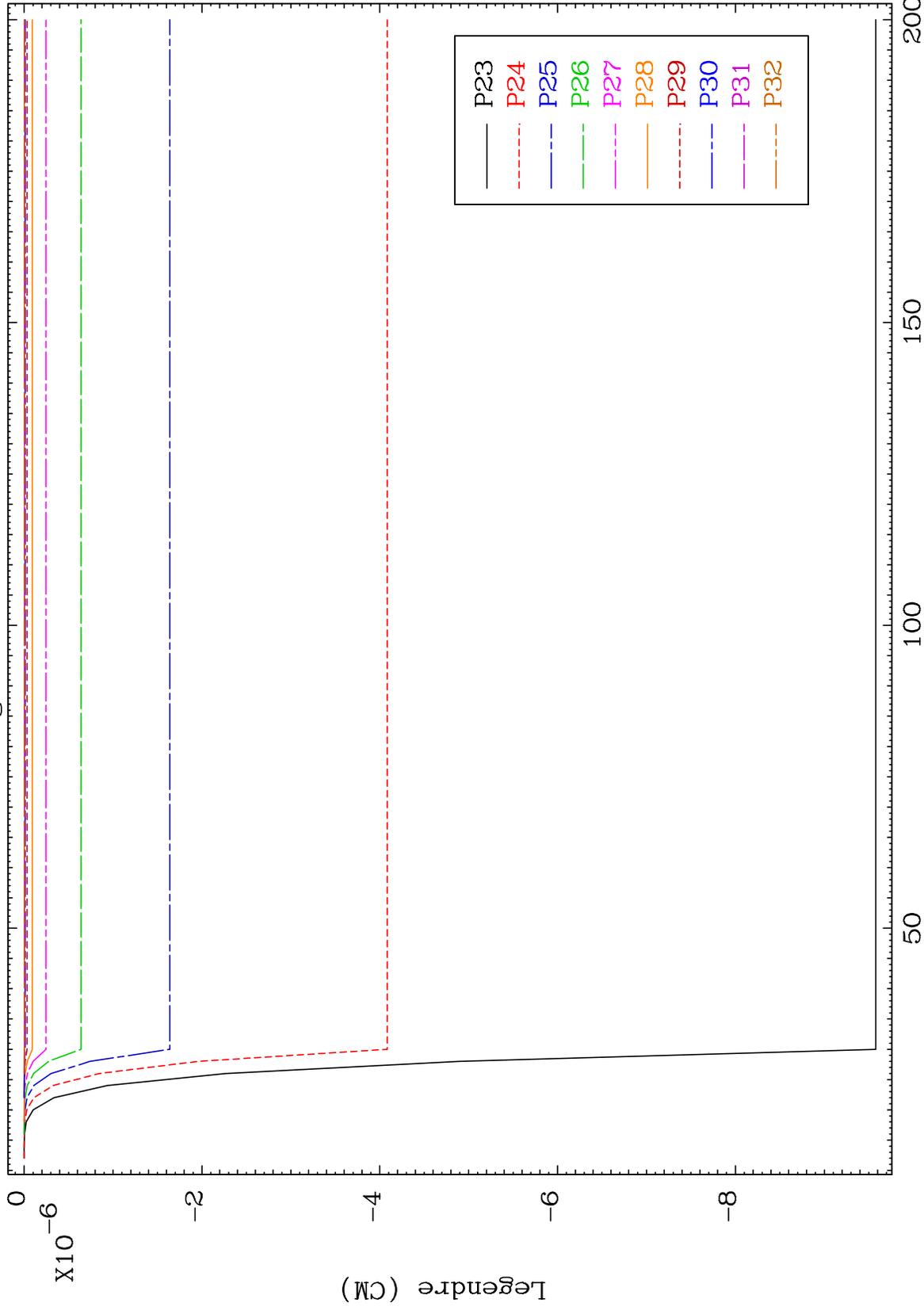
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



104

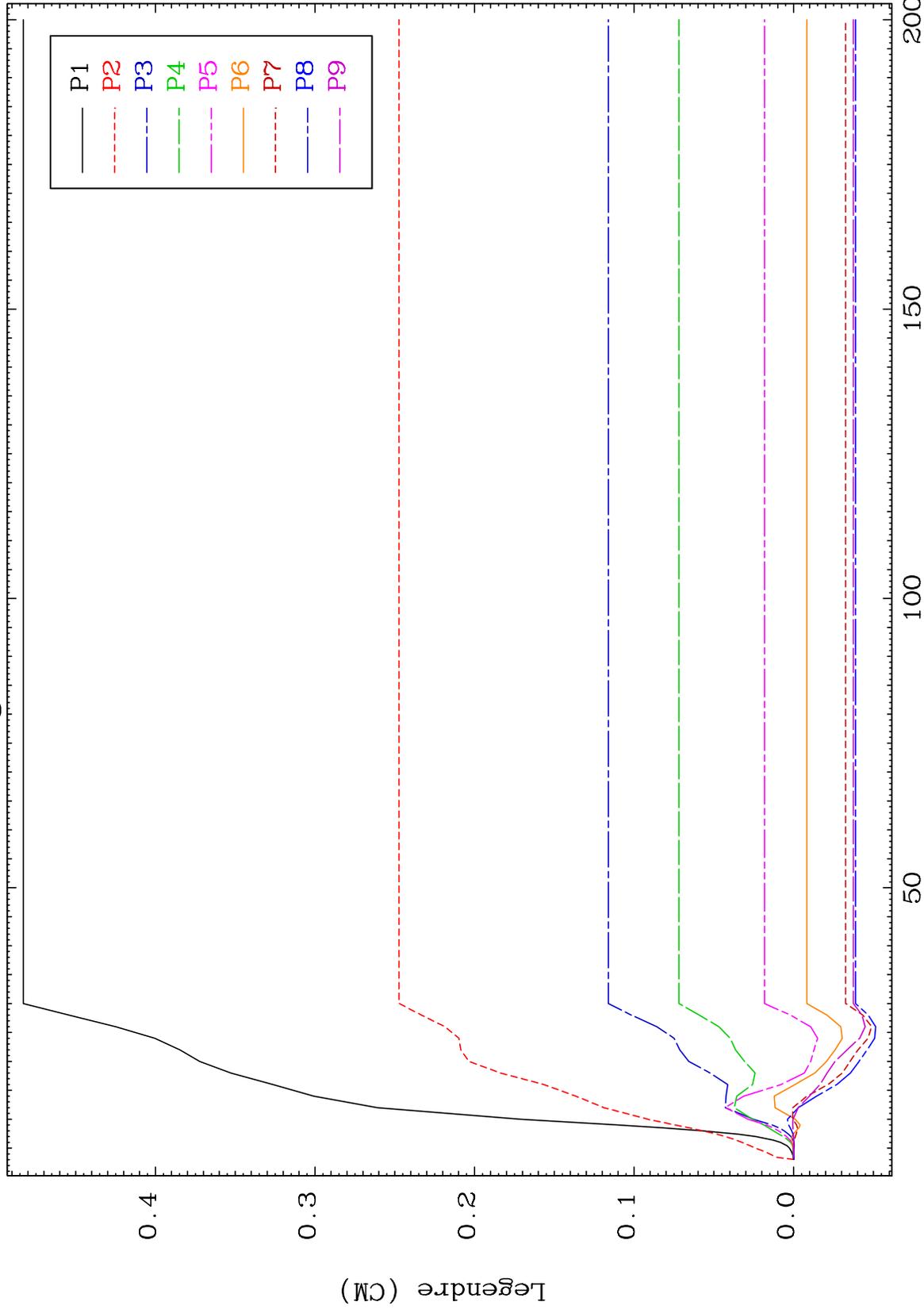
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



105

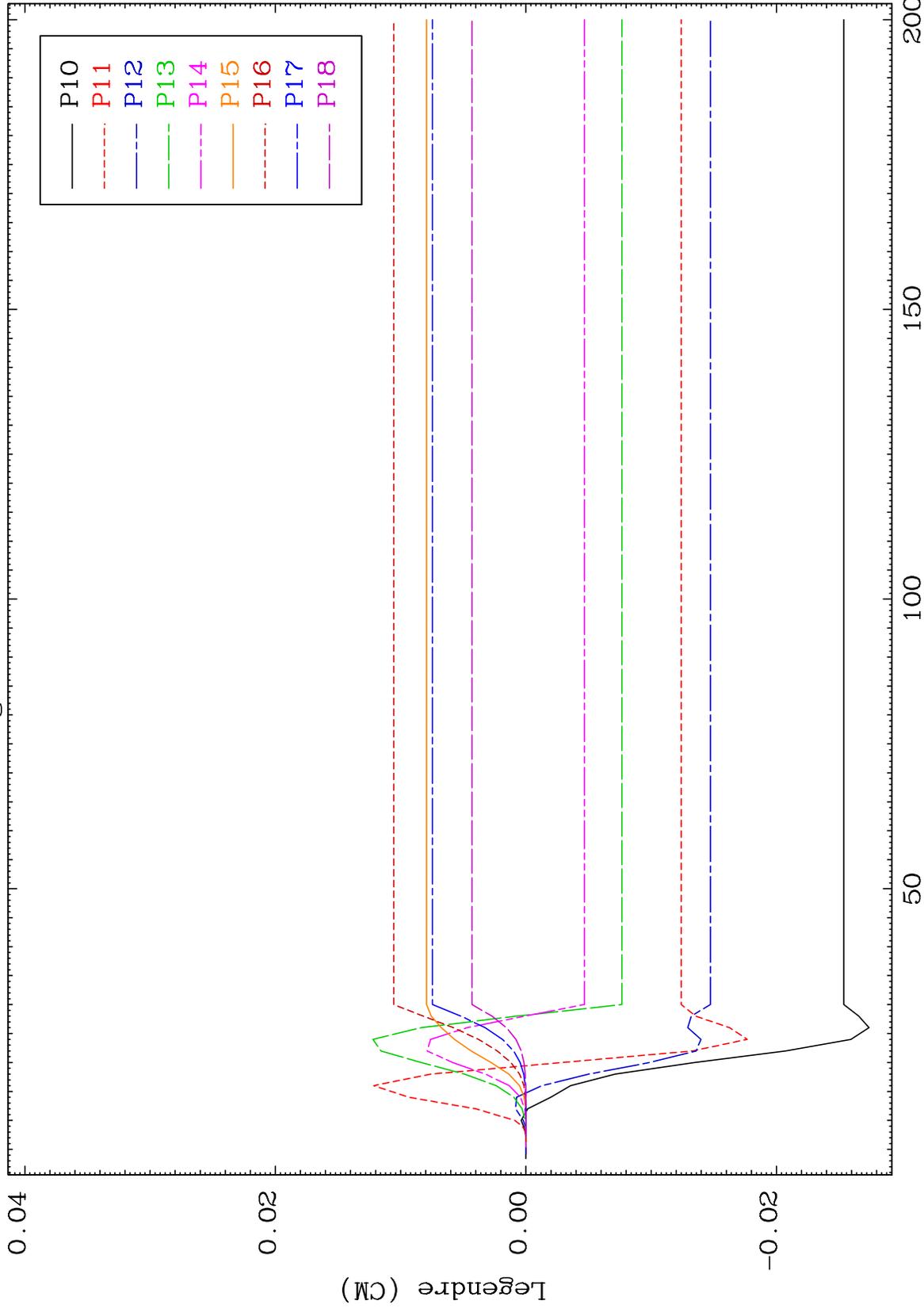
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



106

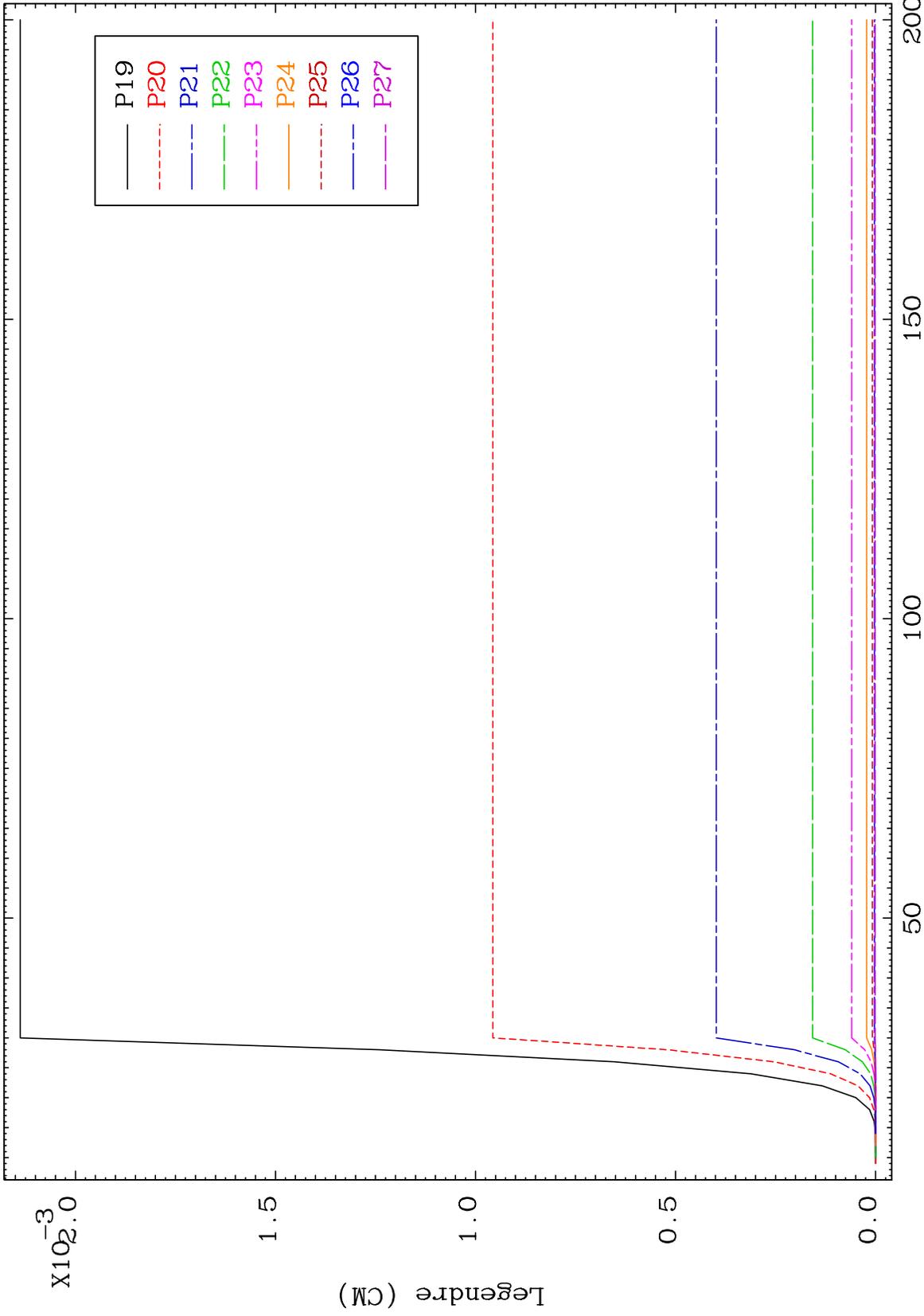
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



107

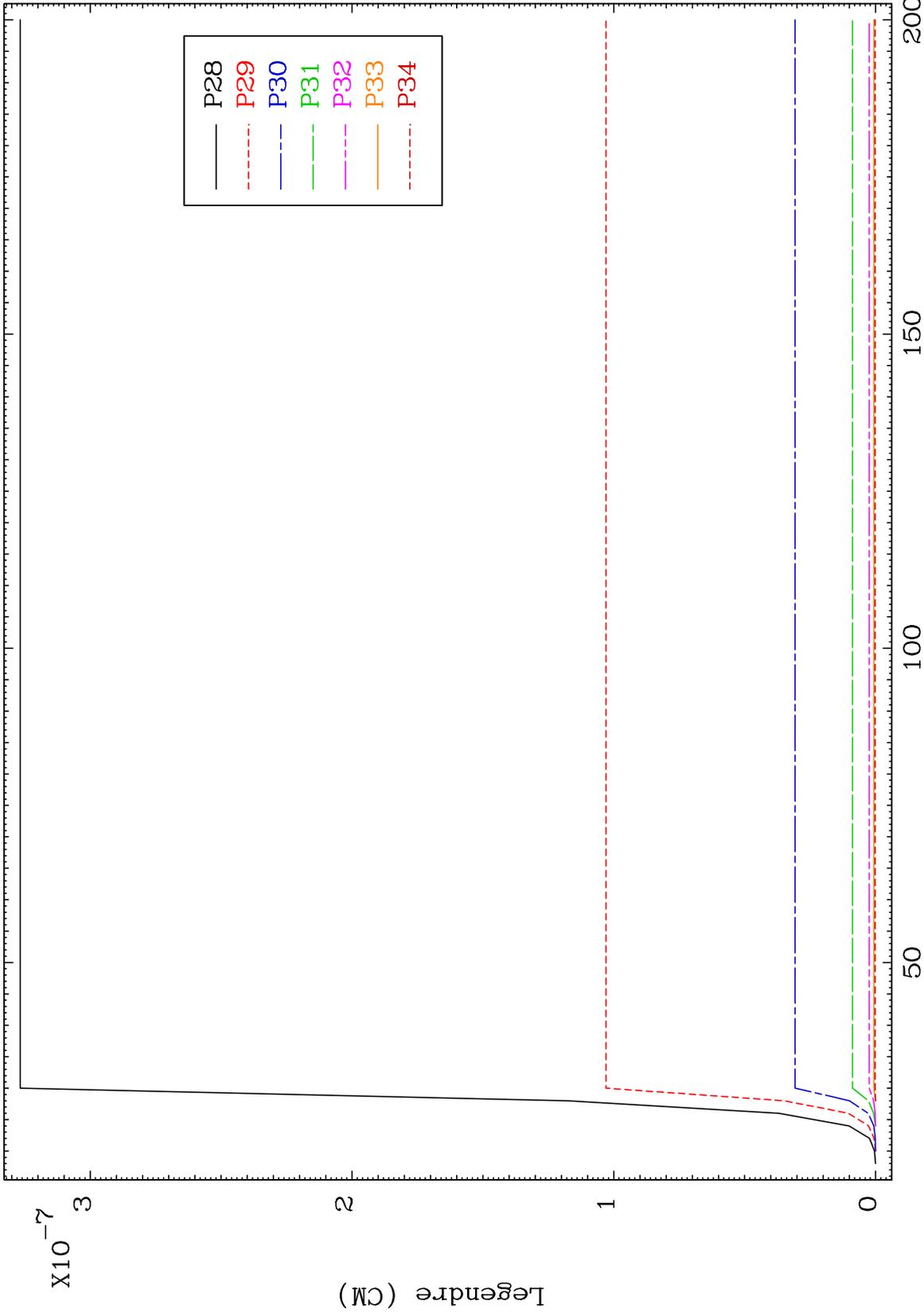
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

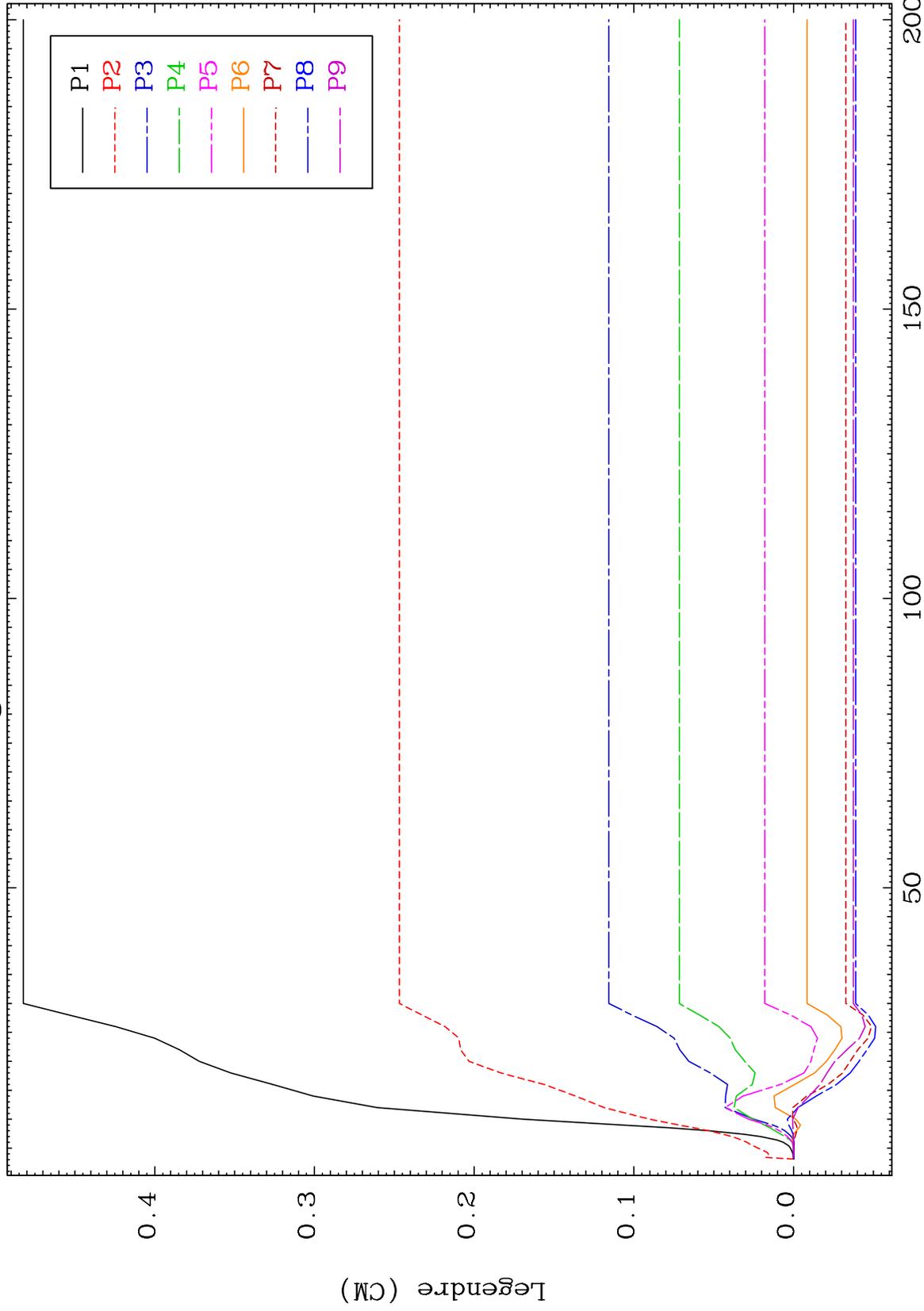
37-Rb-87



108

Incident Energy (MeV)

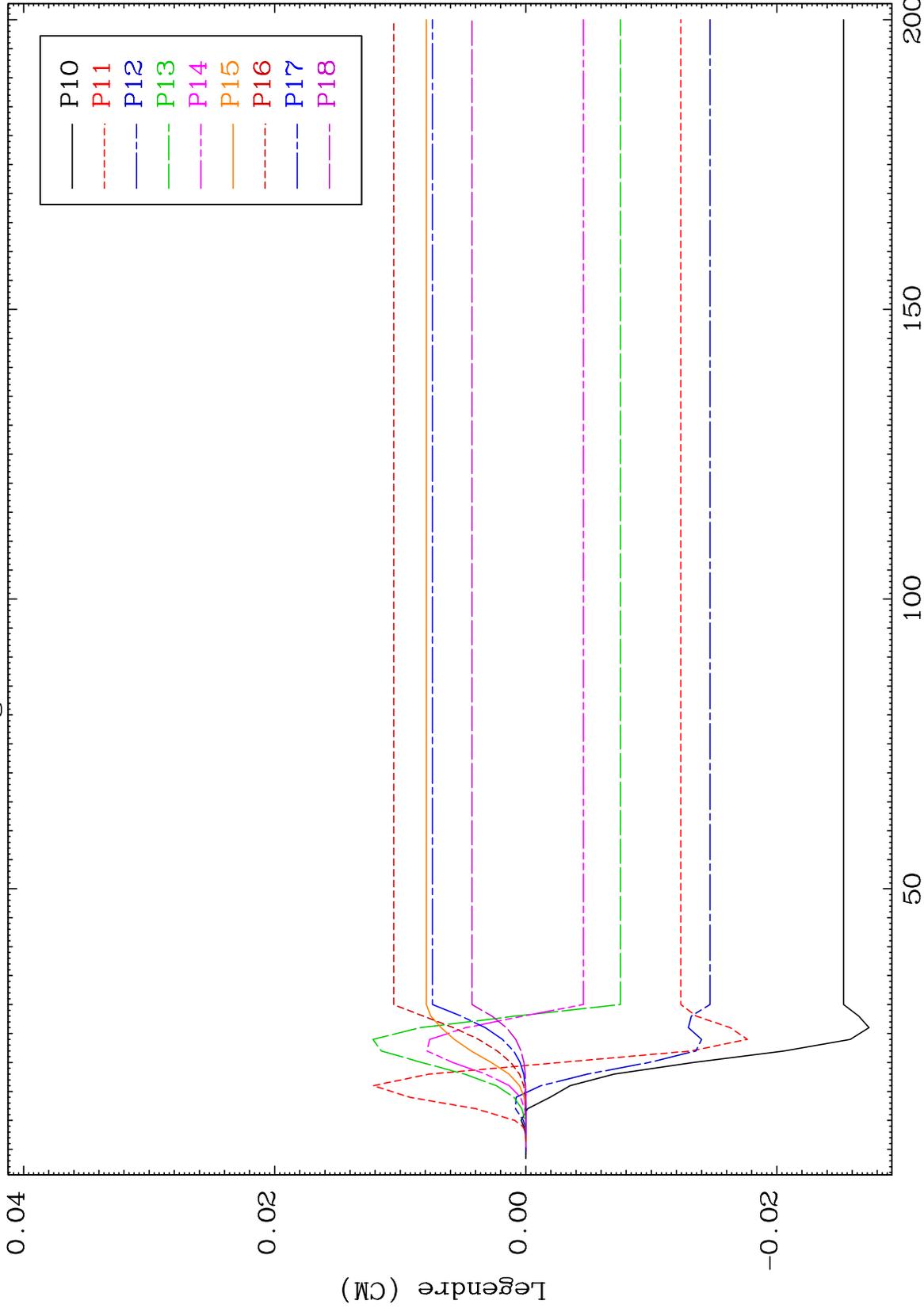
37-Rb-87



MAT 3731

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

37-Rb-87



110

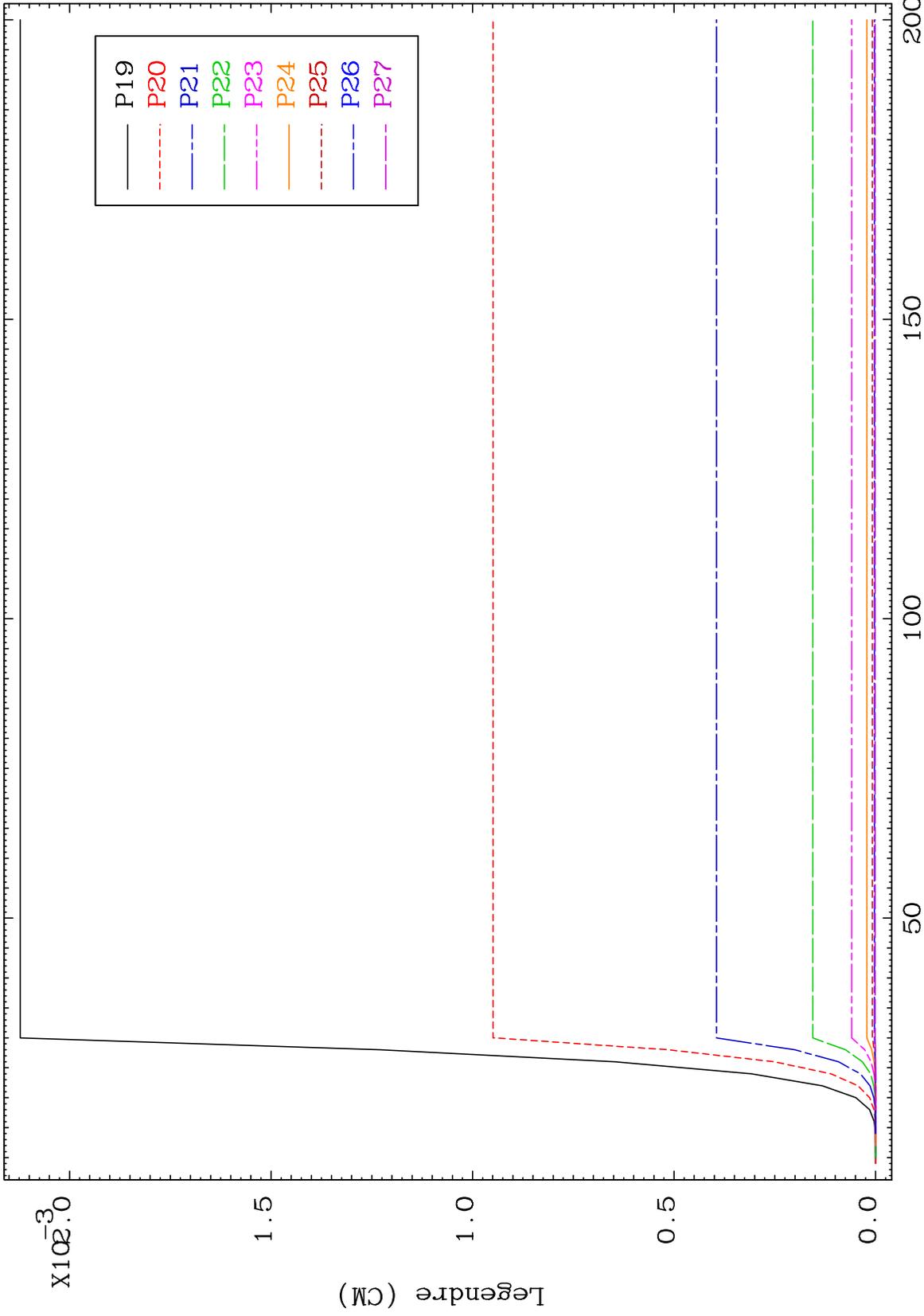
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



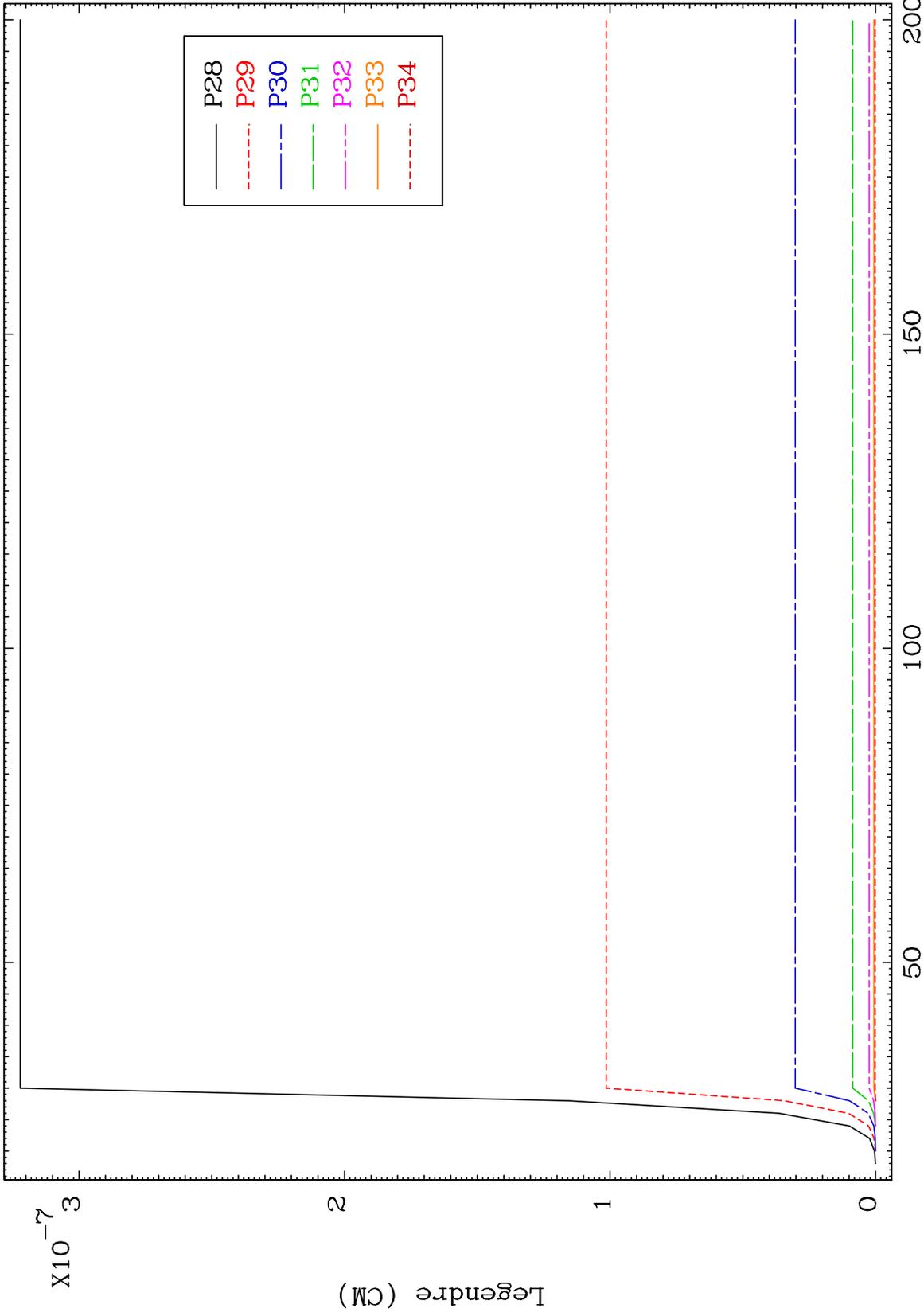
111

37-Rb-87

MAT 3731

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

37-Rb-87



112

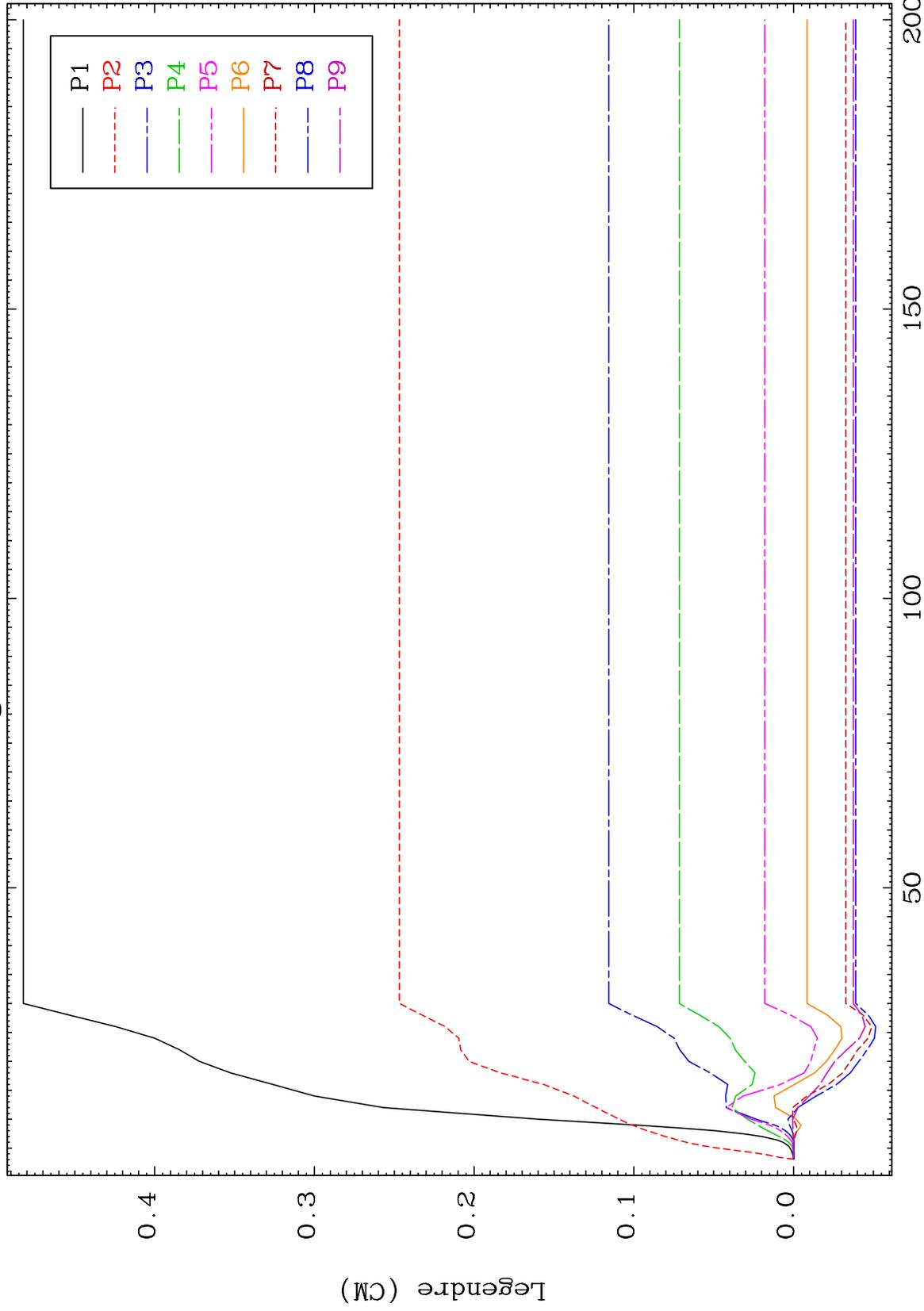
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



113

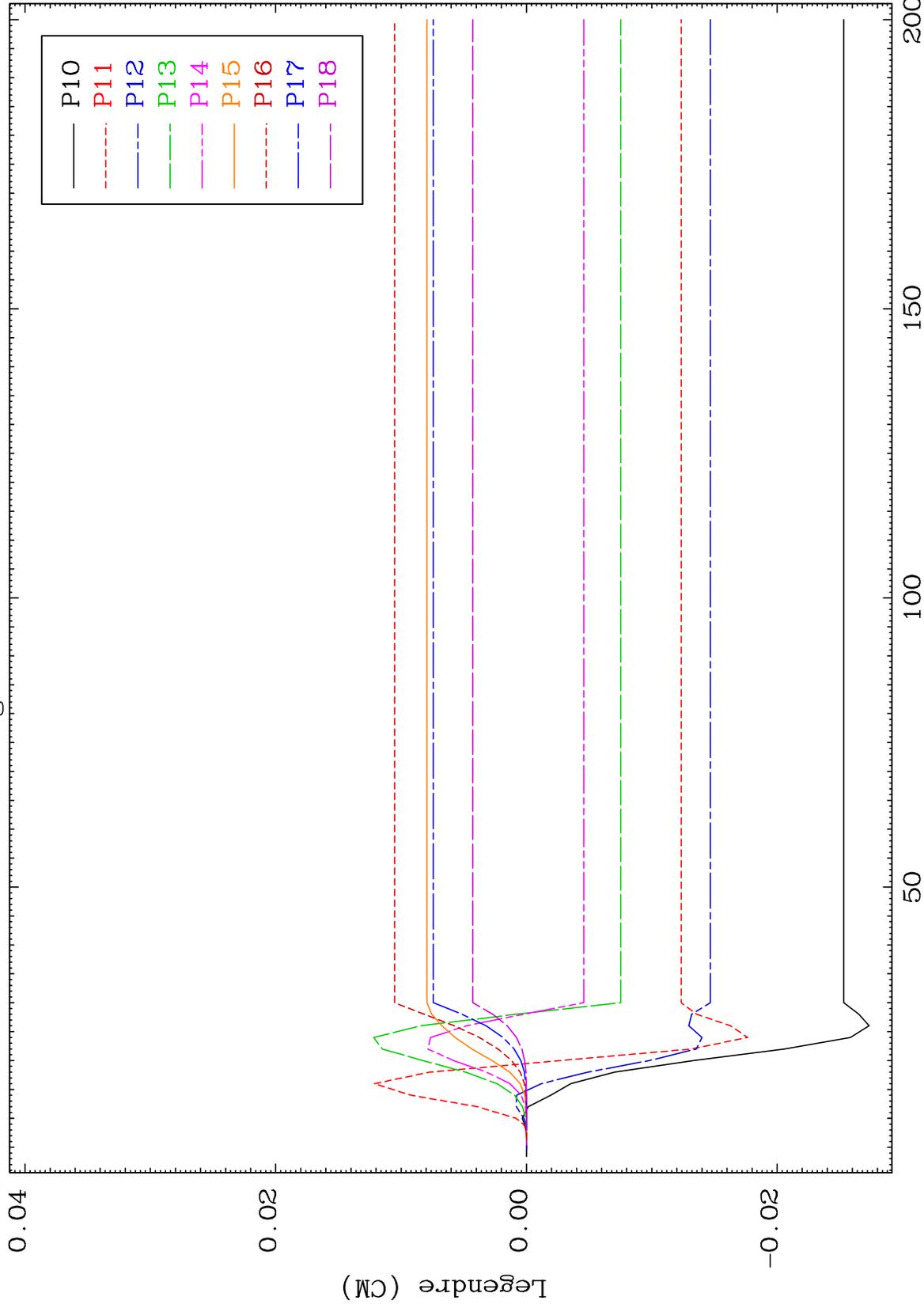
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



114

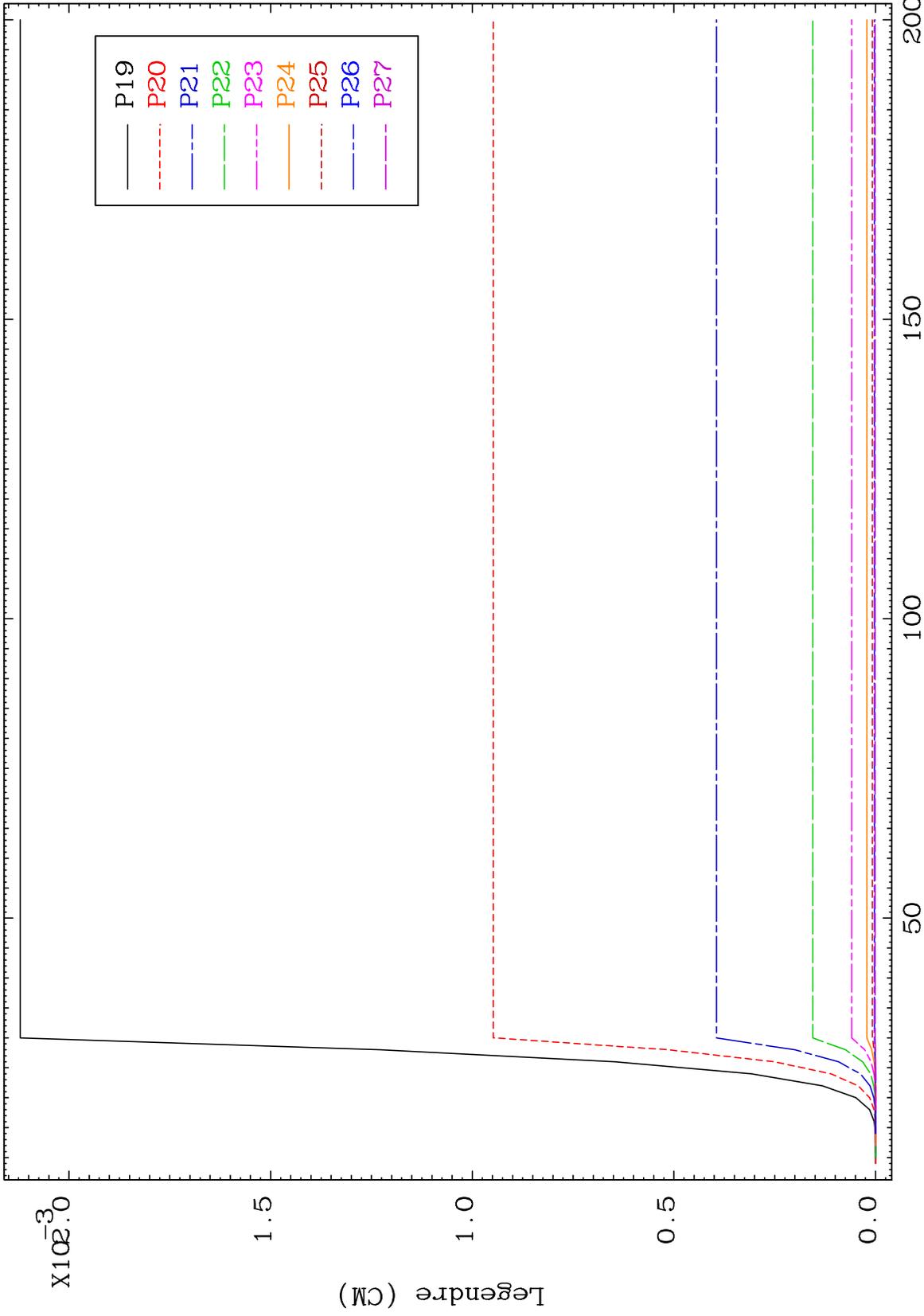
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



115

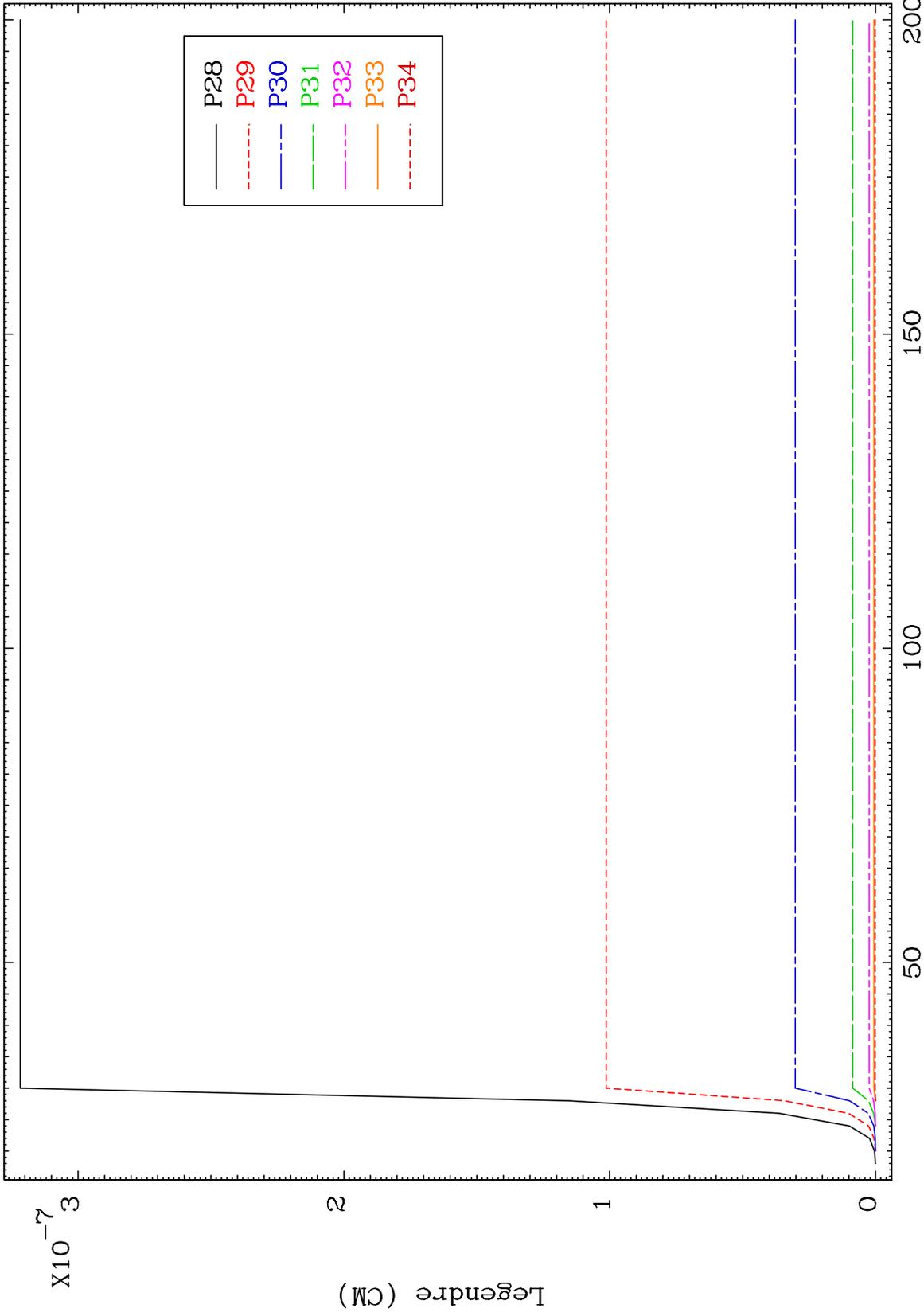
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



116

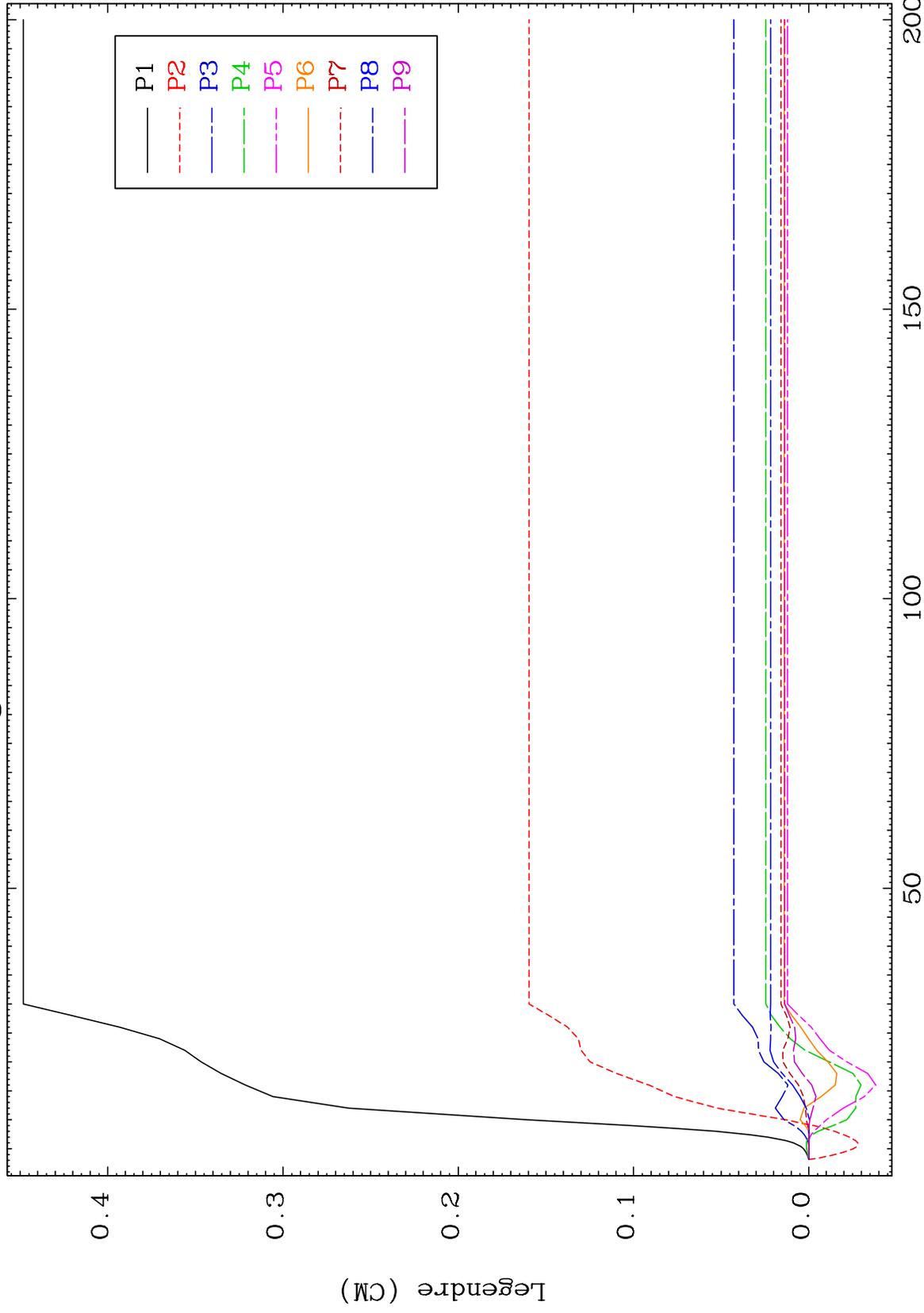
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

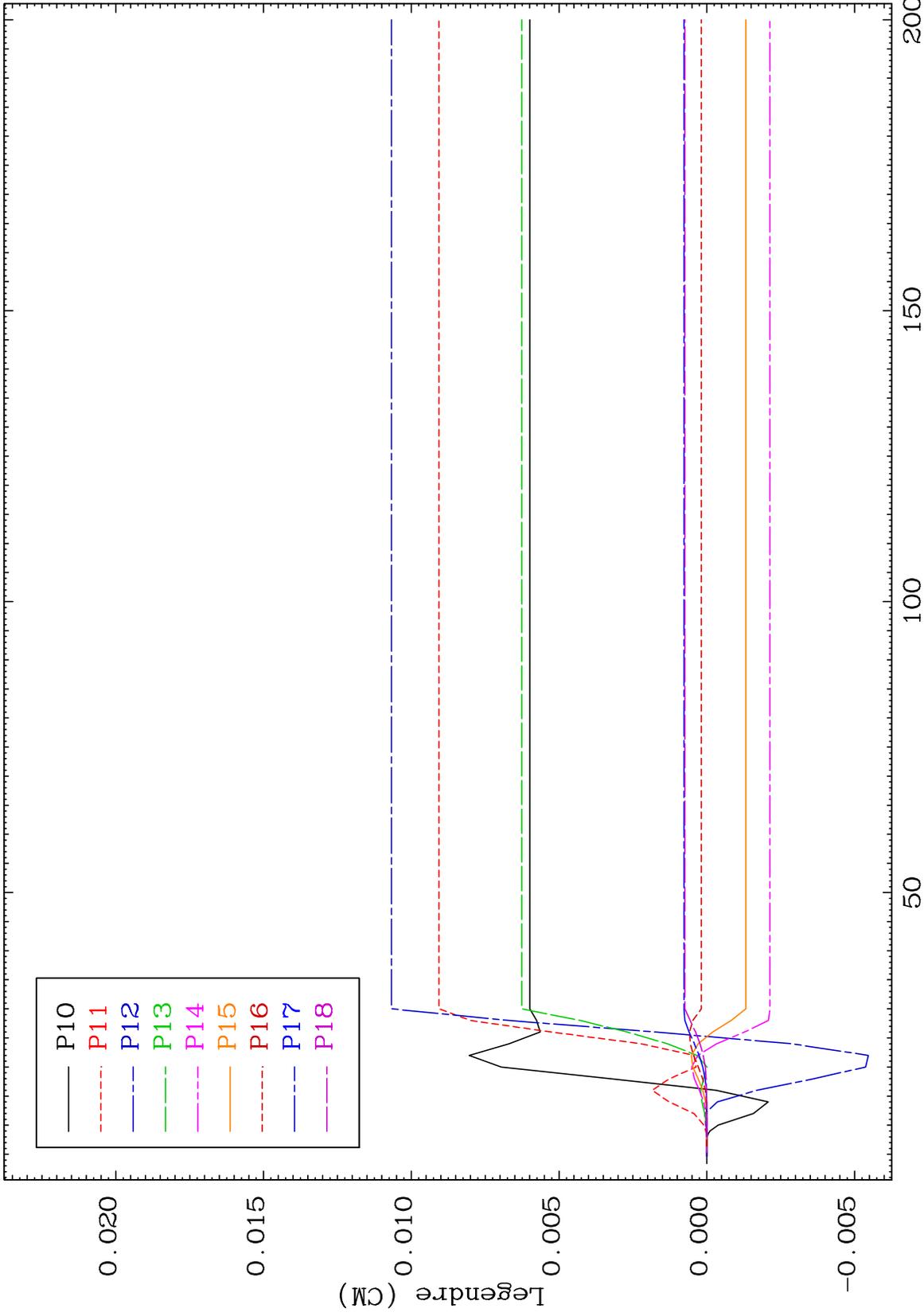
37-Rb-87



117

Incident Energy (MeV)

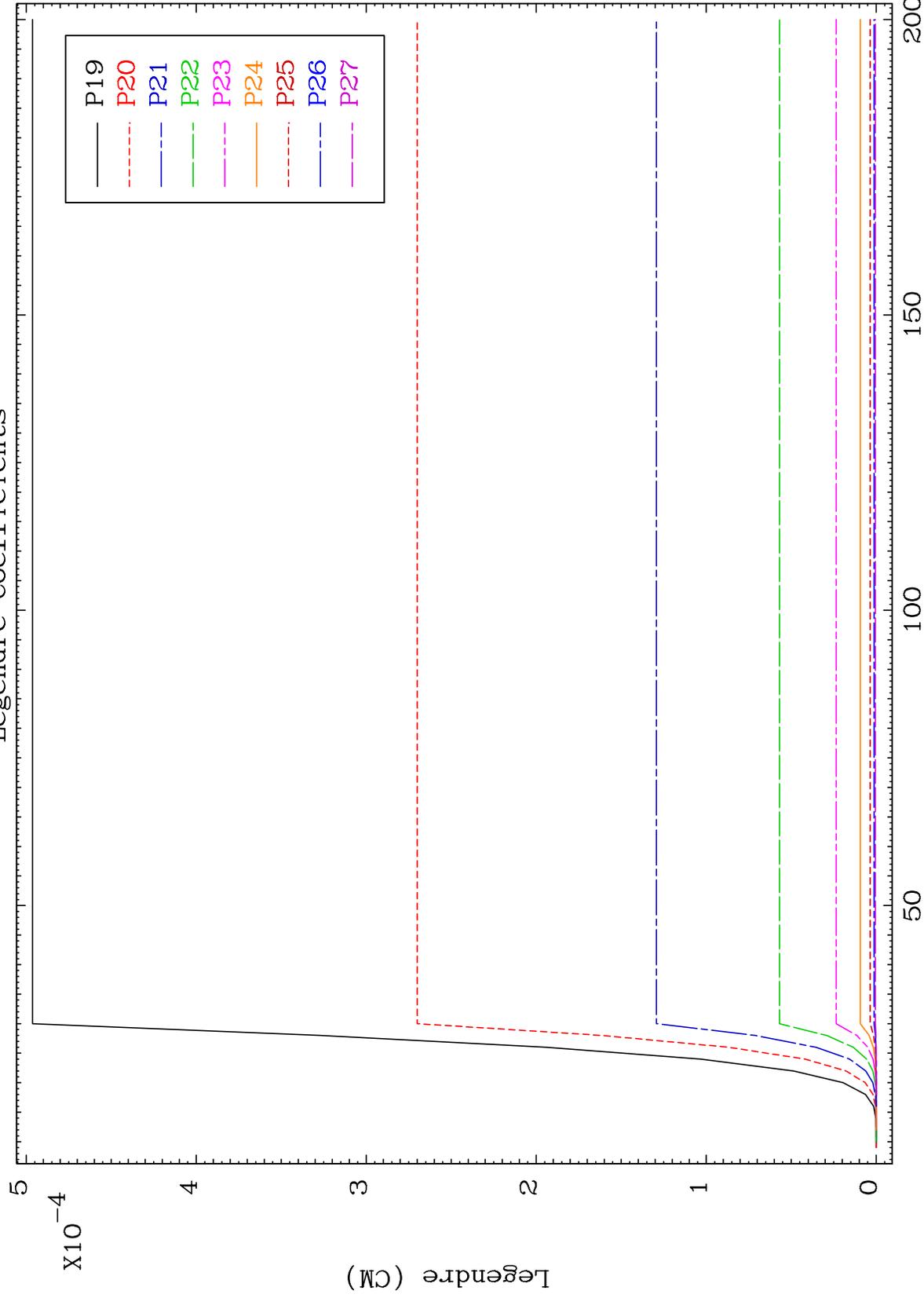
37-Rb-87



MAT 3731

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

37-Rb-87



119

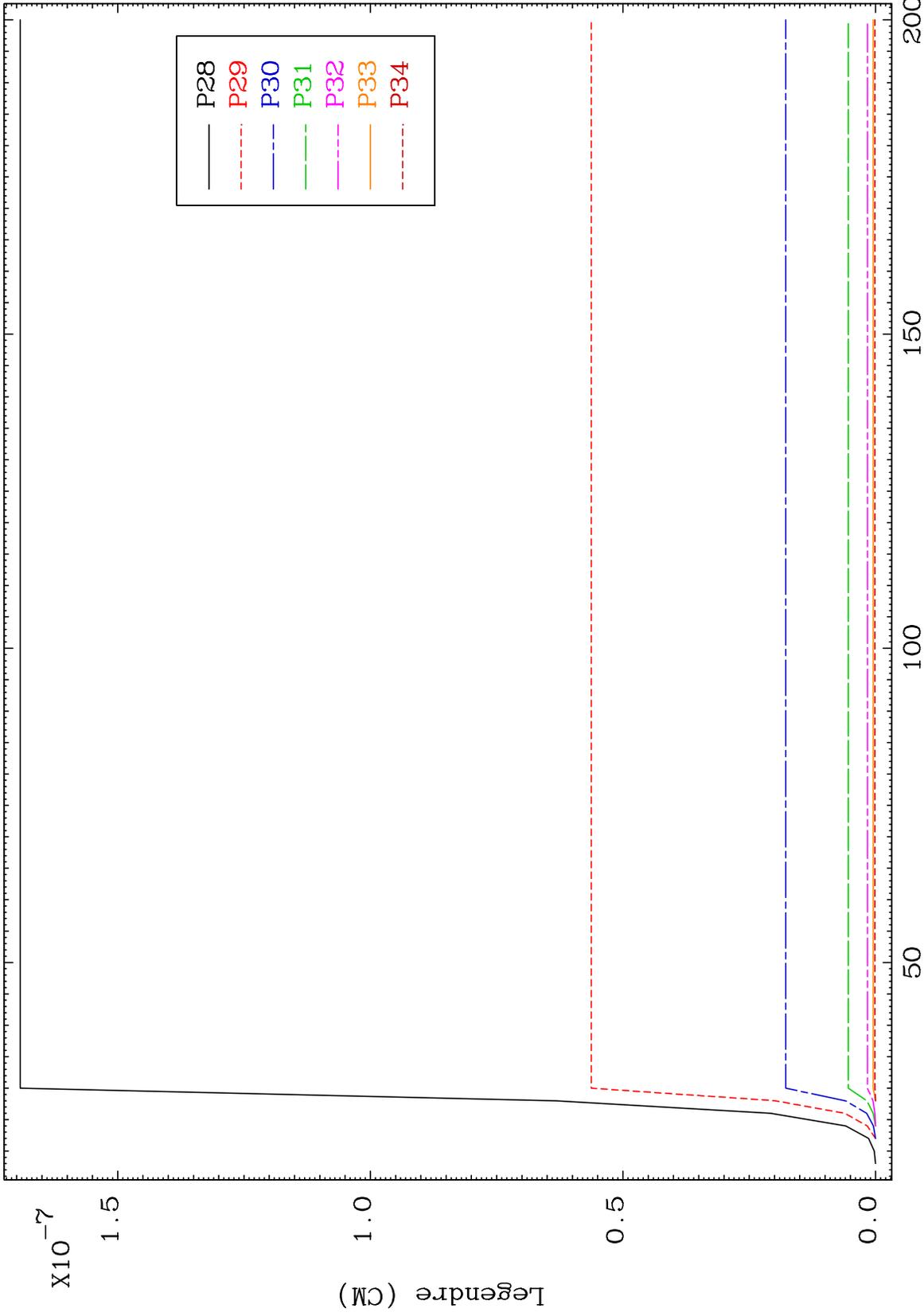
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



120

50

100

150

200

37-Rb-87

MAT 3731

MT= 78 (n,n') Level
Legendre Coefficients

37-Rb-87



121

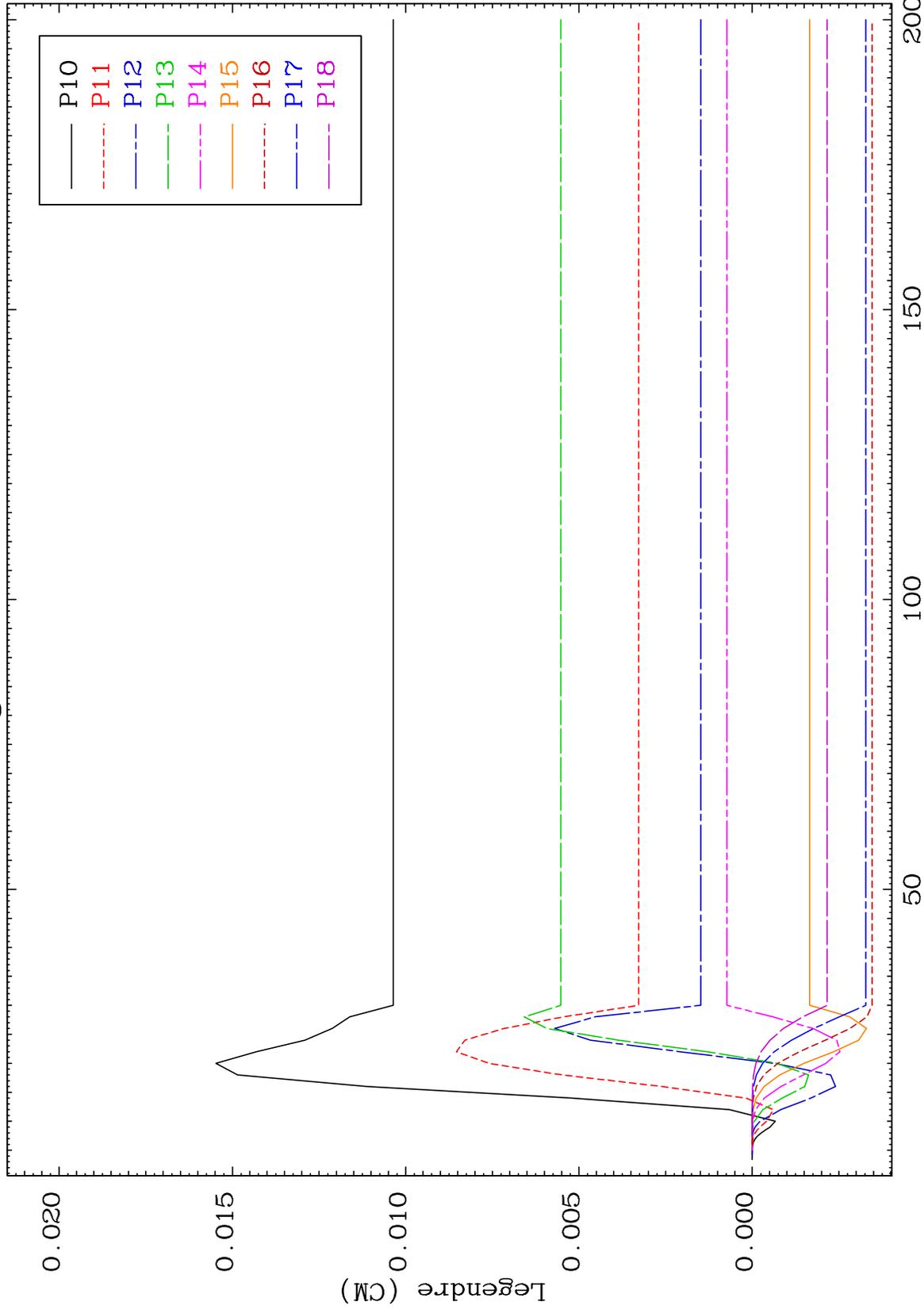
Incident Energy (MeV)

37-Rb-87

MAT 3731

MT= 78 (n,n') Level
Legendre Coefficients

37-Rb-87



122

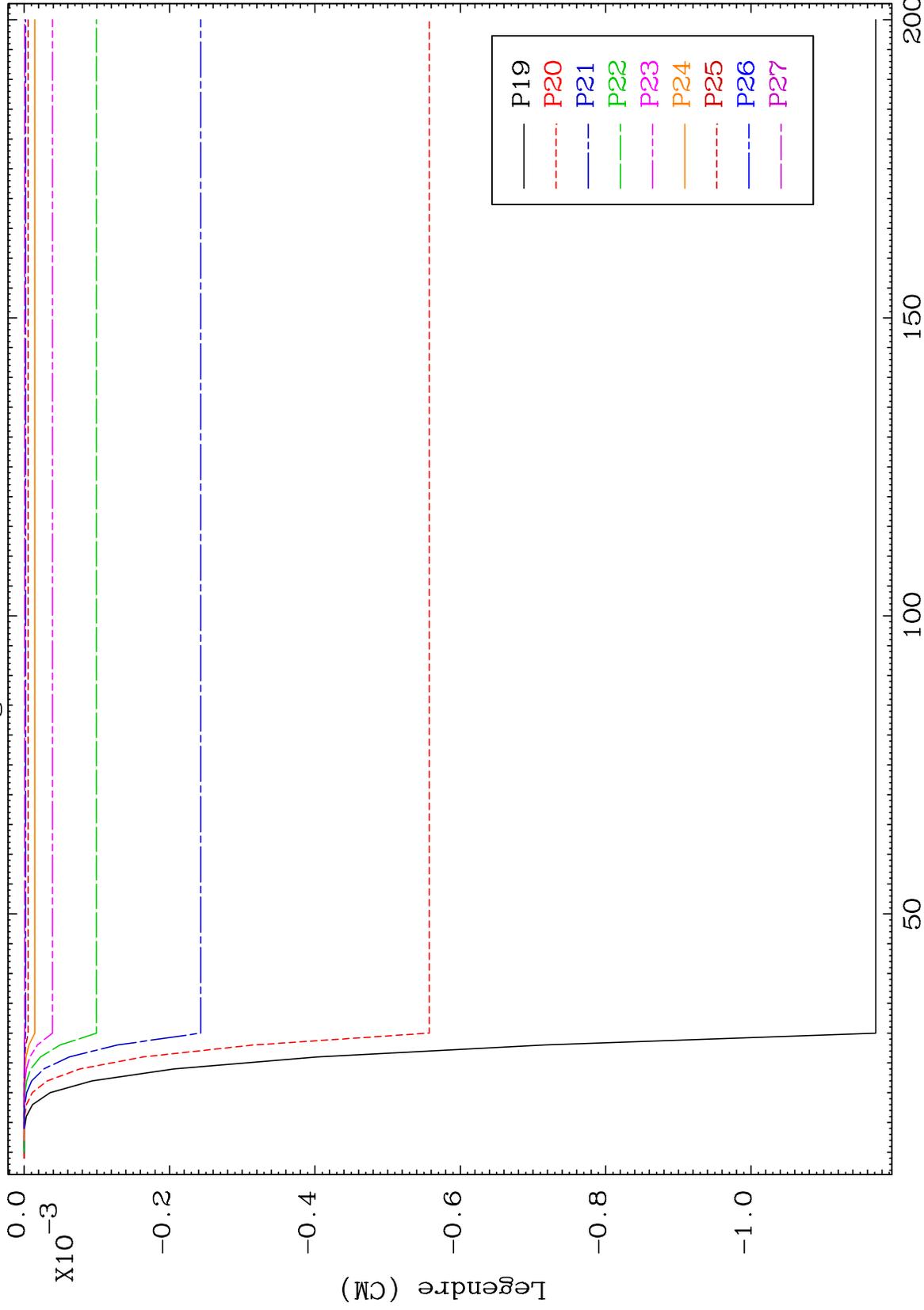
Incident Energy (MeV)

37-Rb-87

MAT 3731

MT= 78 (n,n') Level
Legendre Coefficients

37-Rb-87



37-Rb-87

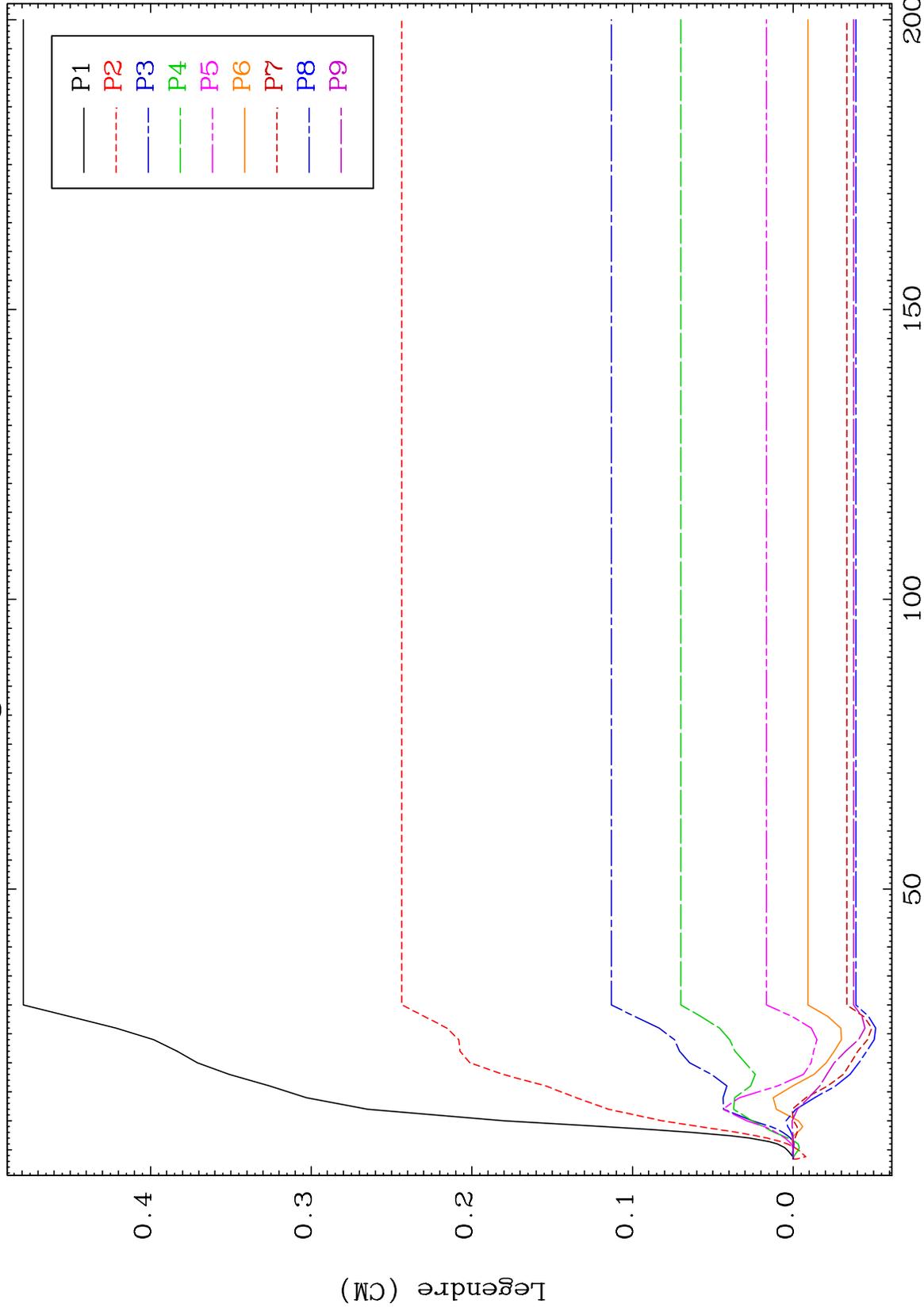
Incident Energy (MeV)

123

MAT 3731

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

37-Rb-87



125

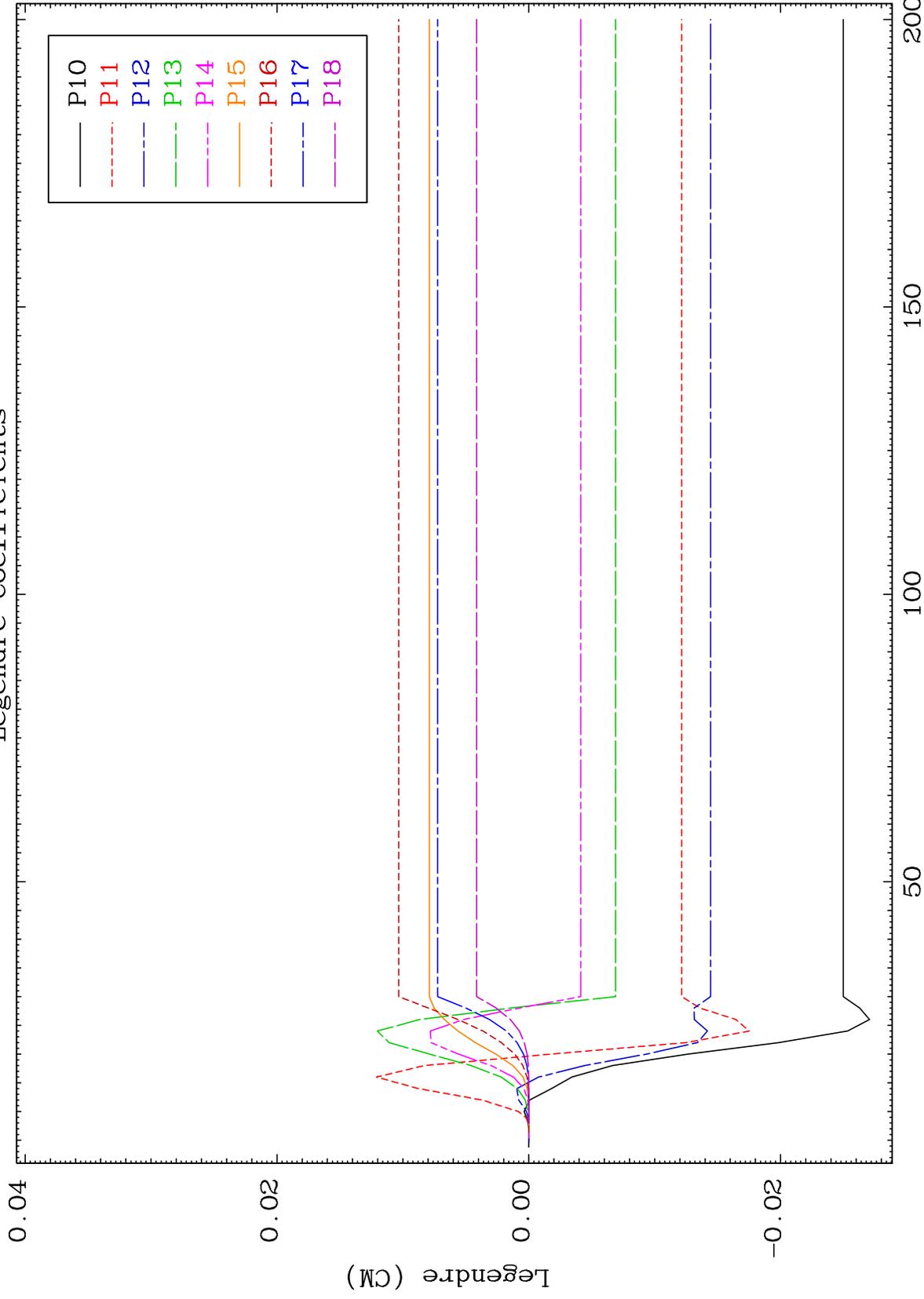
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



126

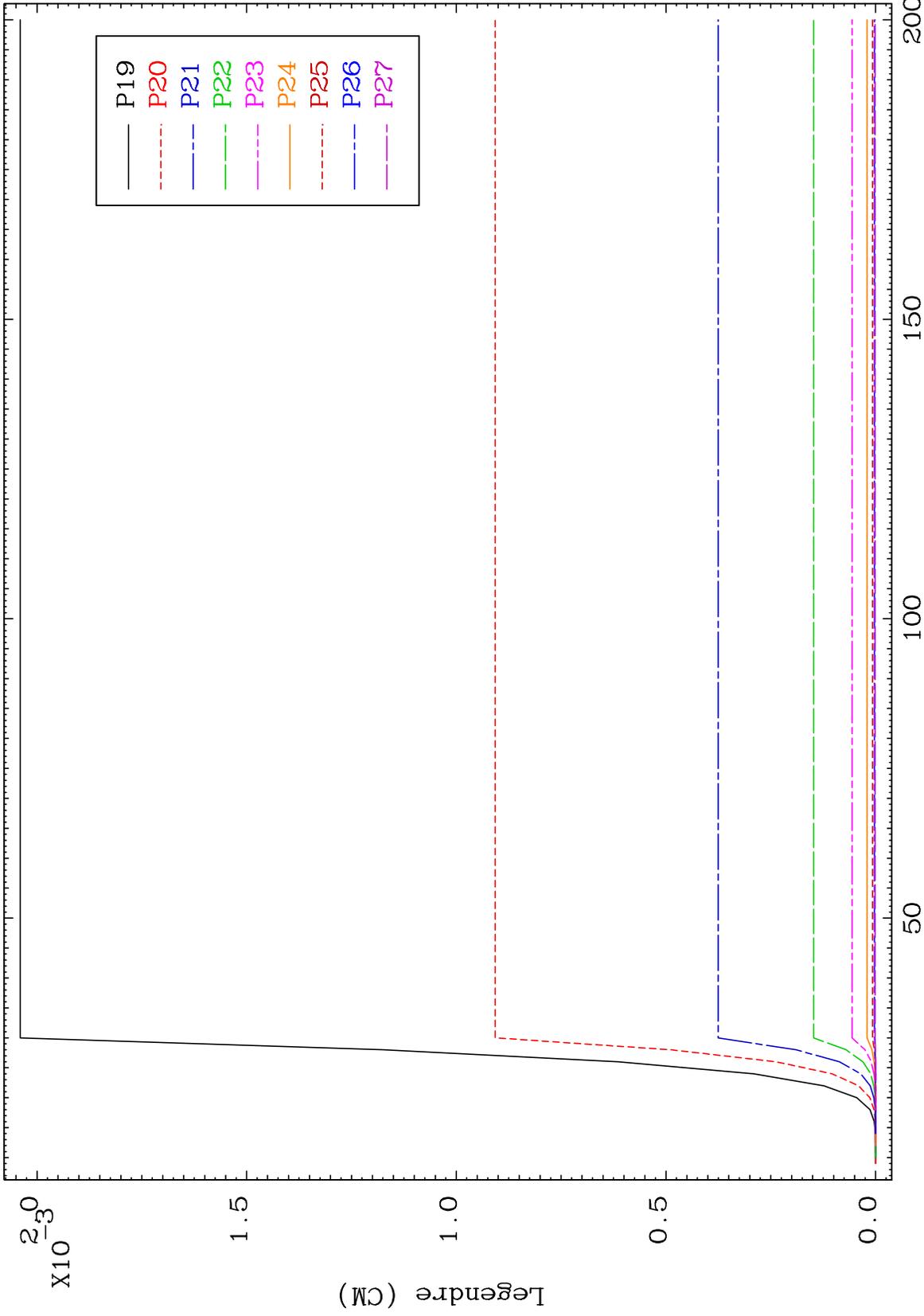
Incident Energy (MeV)

37-Rb-87

MAT 3731

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

37-Rb-87



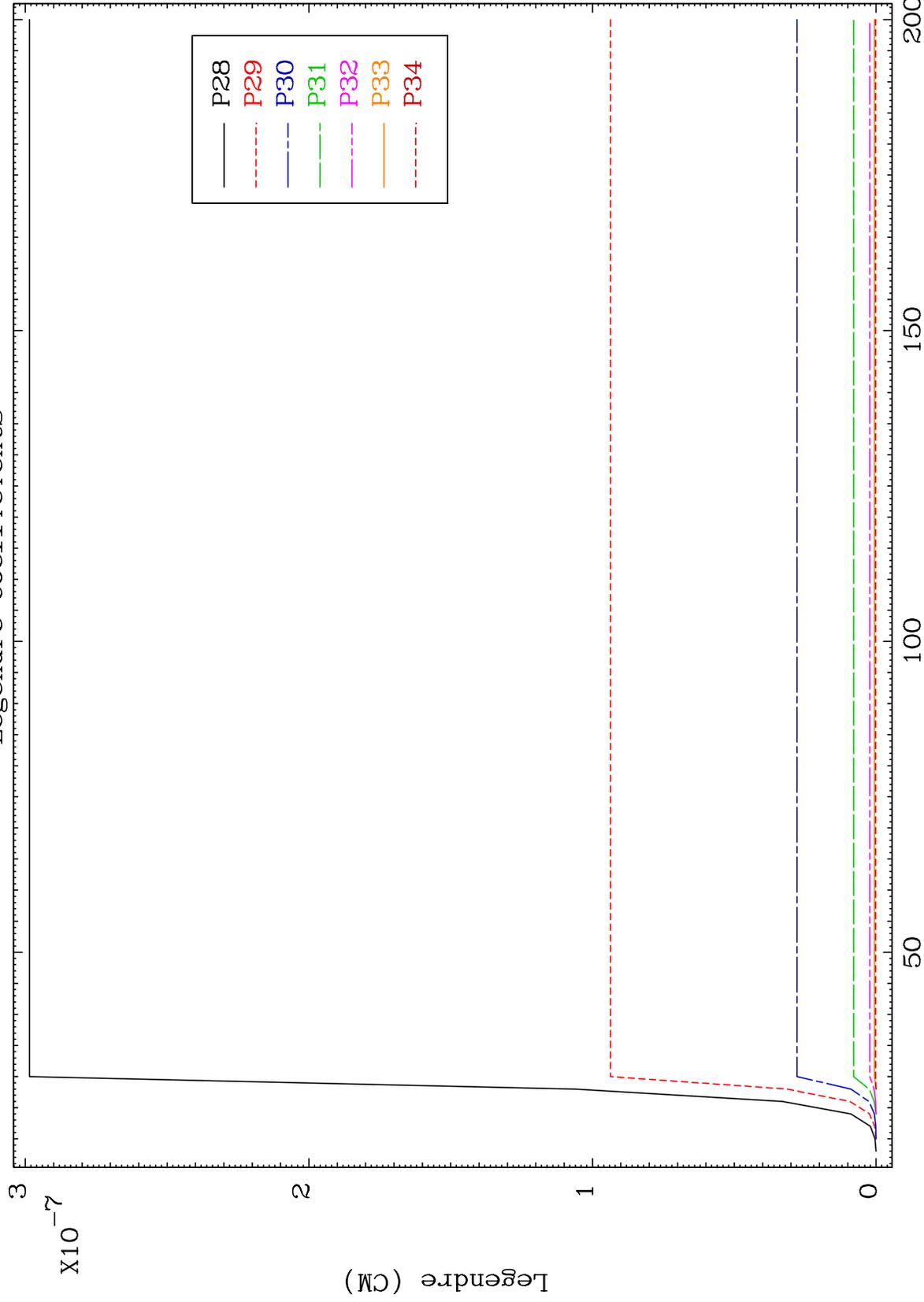
127

37-Rb-87

MAT 3731

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

37-Rb-87



128

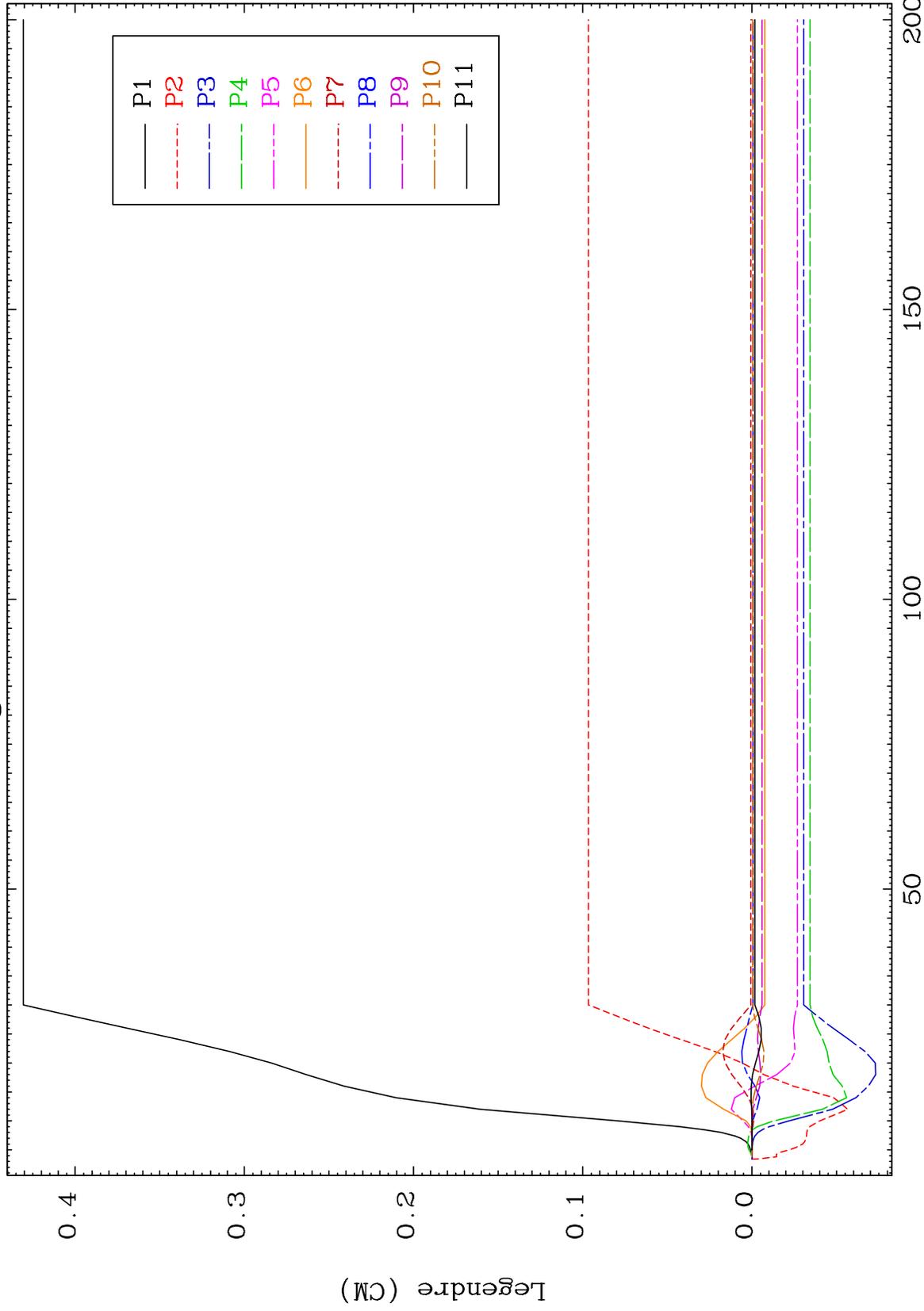
Incident Energy (MeV)

37-Rb-87

MAT 3731

MT= 80 (n,n') Level
Legendre Coefficients

37-Rb-87



129

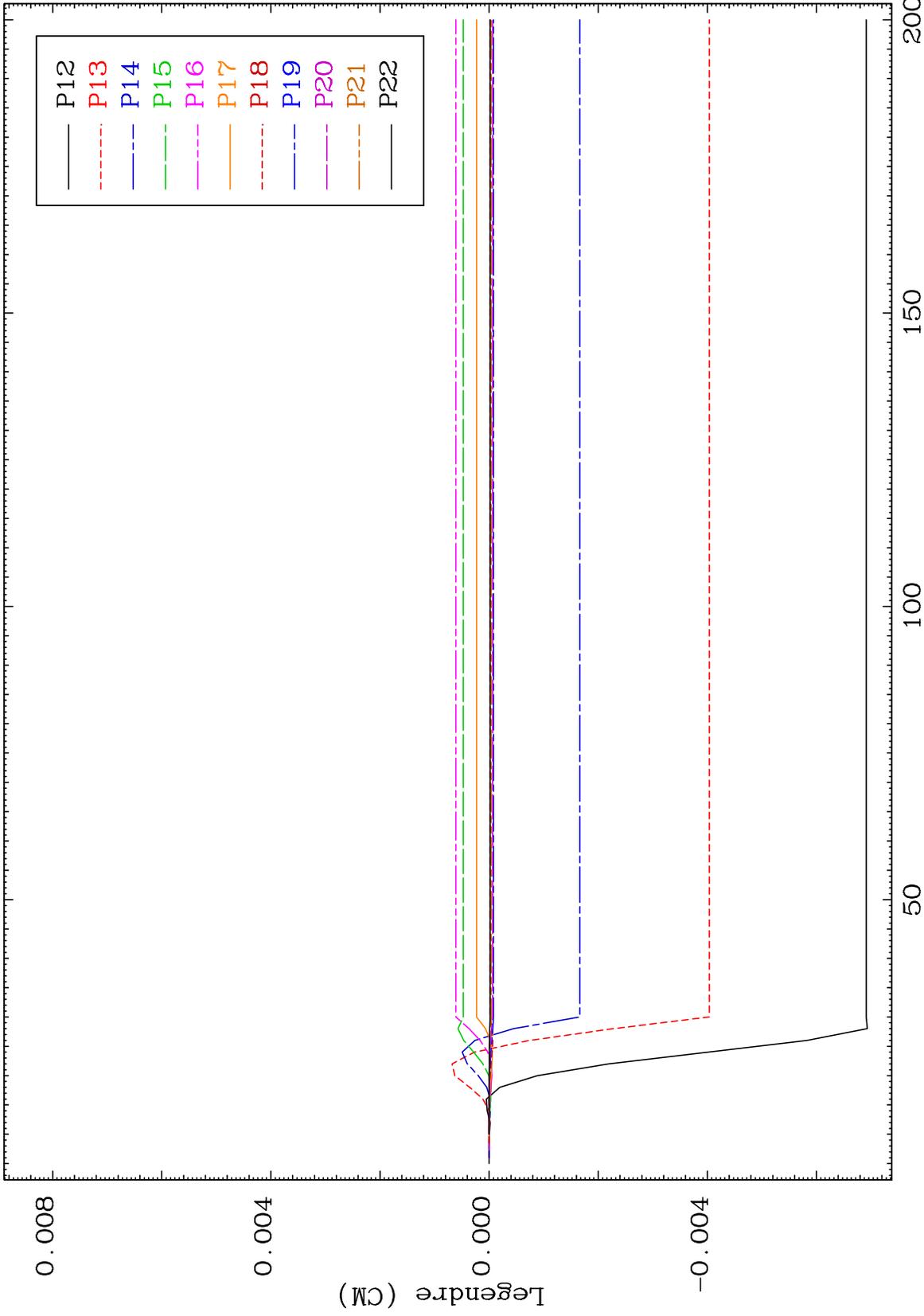
Incident Energy (MeV)

37-Rb-87

MAT 3731

MT= 80 (n,n') Level
Legendre Coefficients

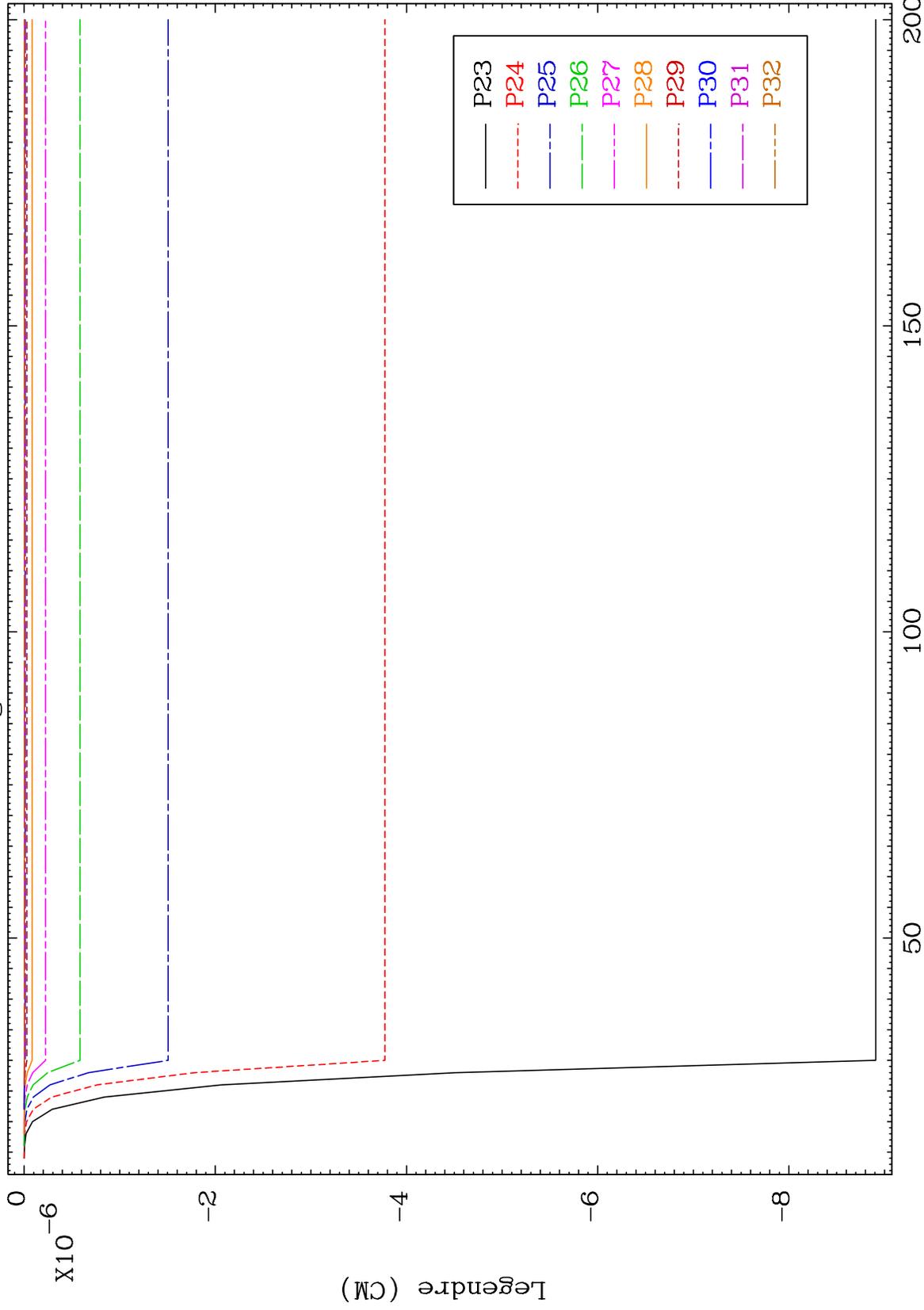
37-Rb-87



130

Incident Energy (MeV)

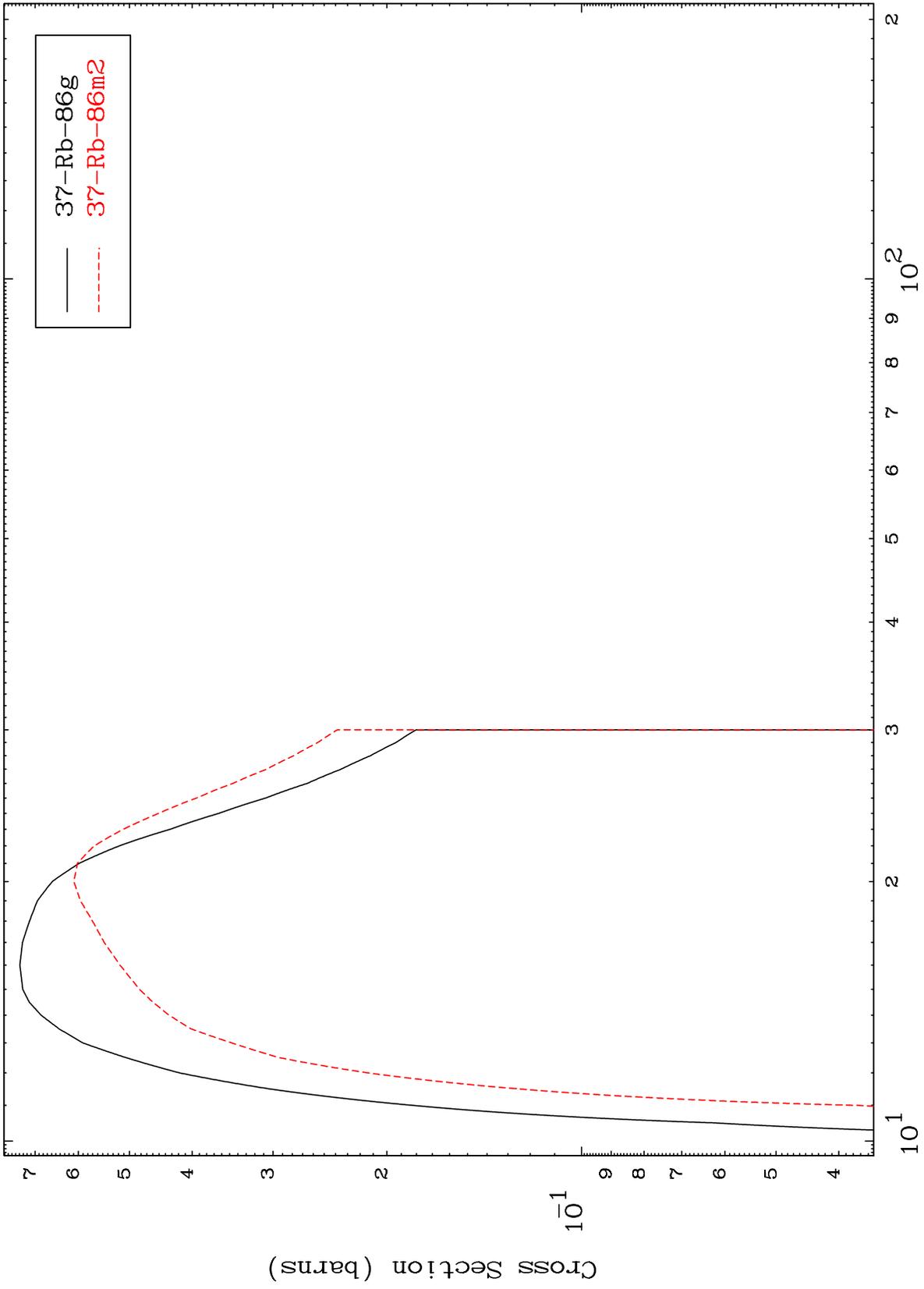
37-Rb-87



MAT 3731

37-Rb-87

(n,2n)
Radionuclide Production Cross Section



37-Rb-87

Incident Energy (MeV)

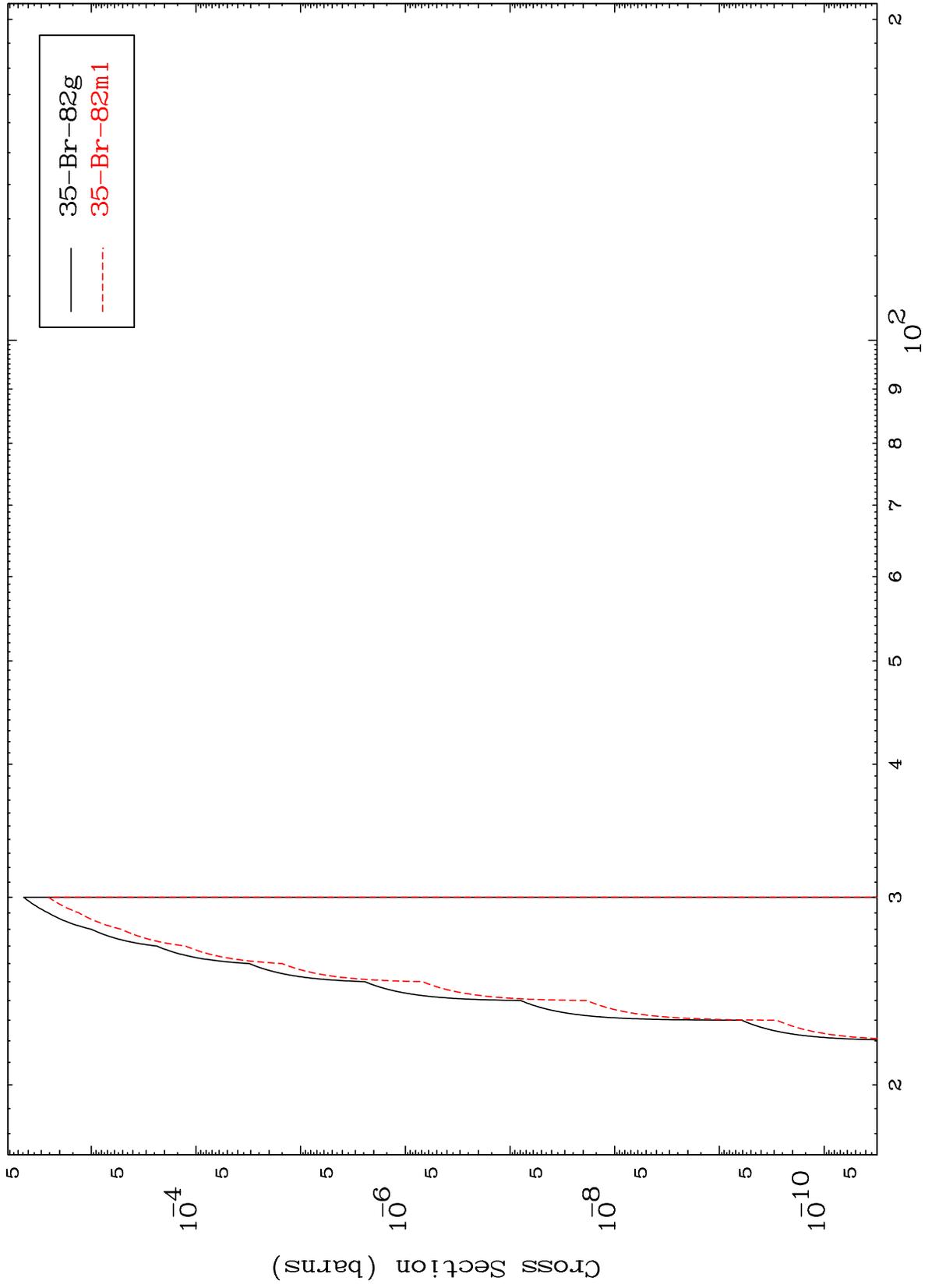
132

MAT 3731

(n,2n) α

37-Rb-87

Radionuclide Production Cross Section



133

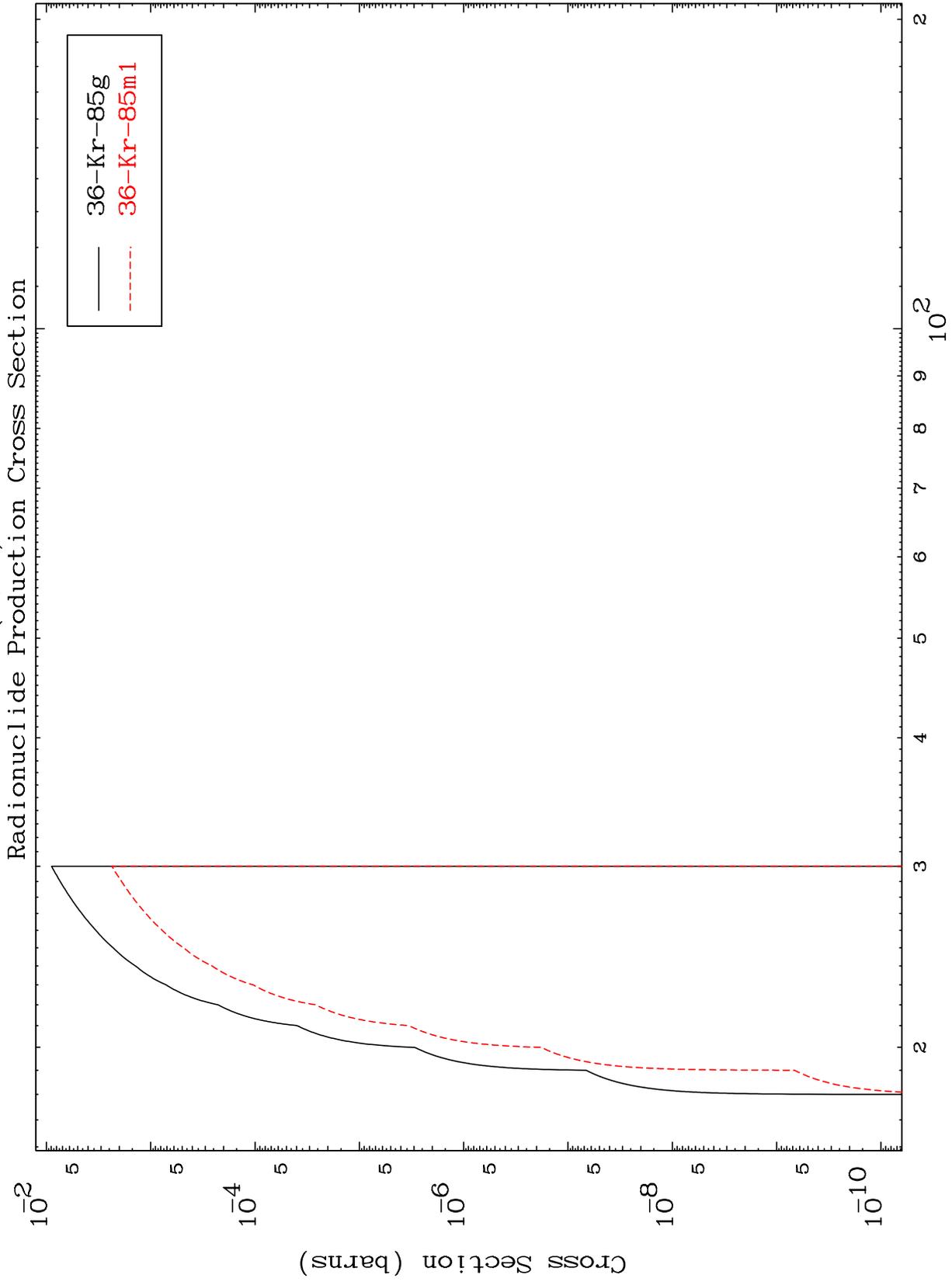
Incident Energy (MeV)

37-Rb-87

MAT 3731

(n,n') d

37-Rb-87



134

Incident Energy (MeV)

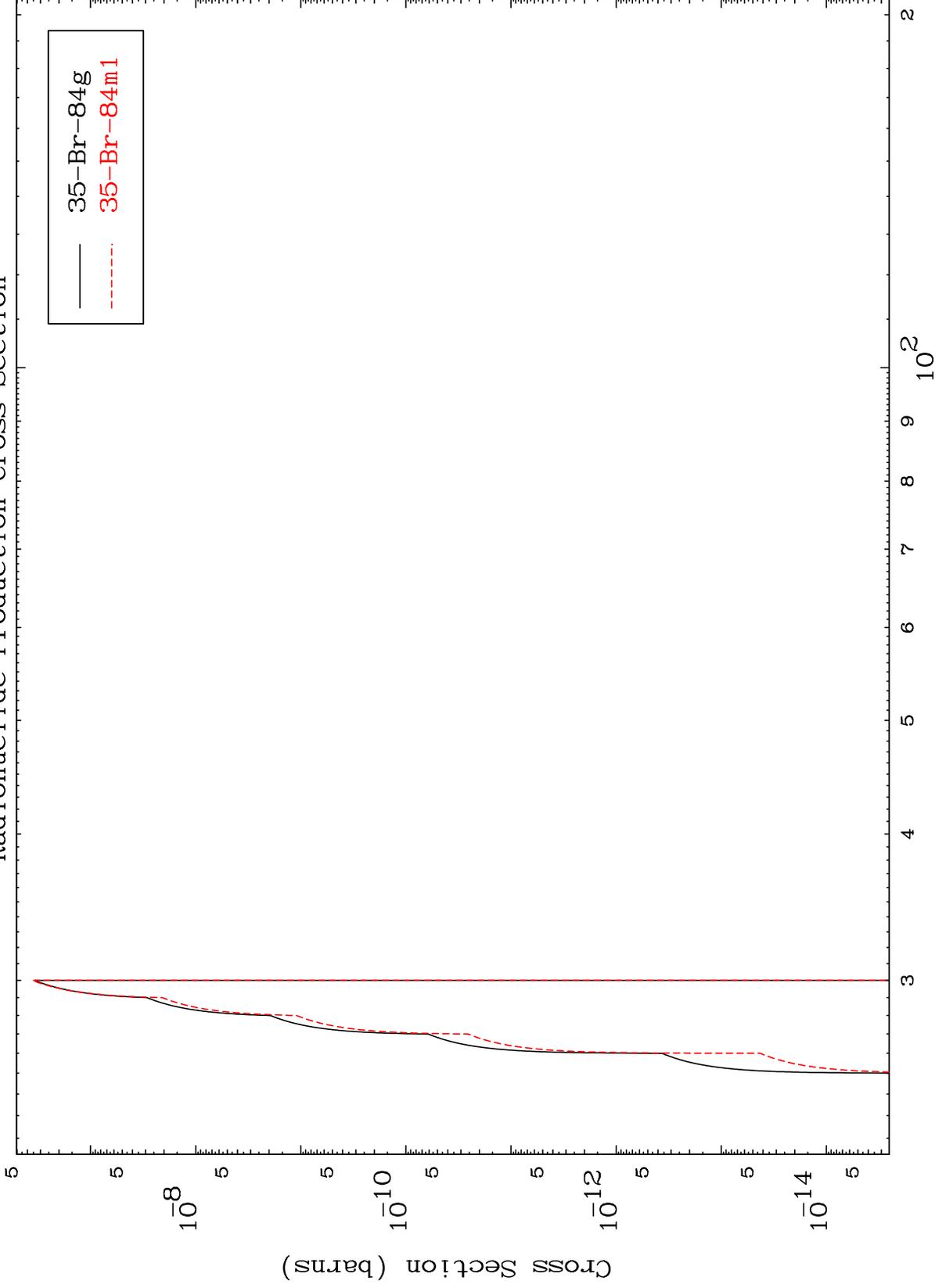
37-Rb-87

MAT 3731

(n, n') He-3

37-Rb-87

Radionuclide Production Cross Section



135

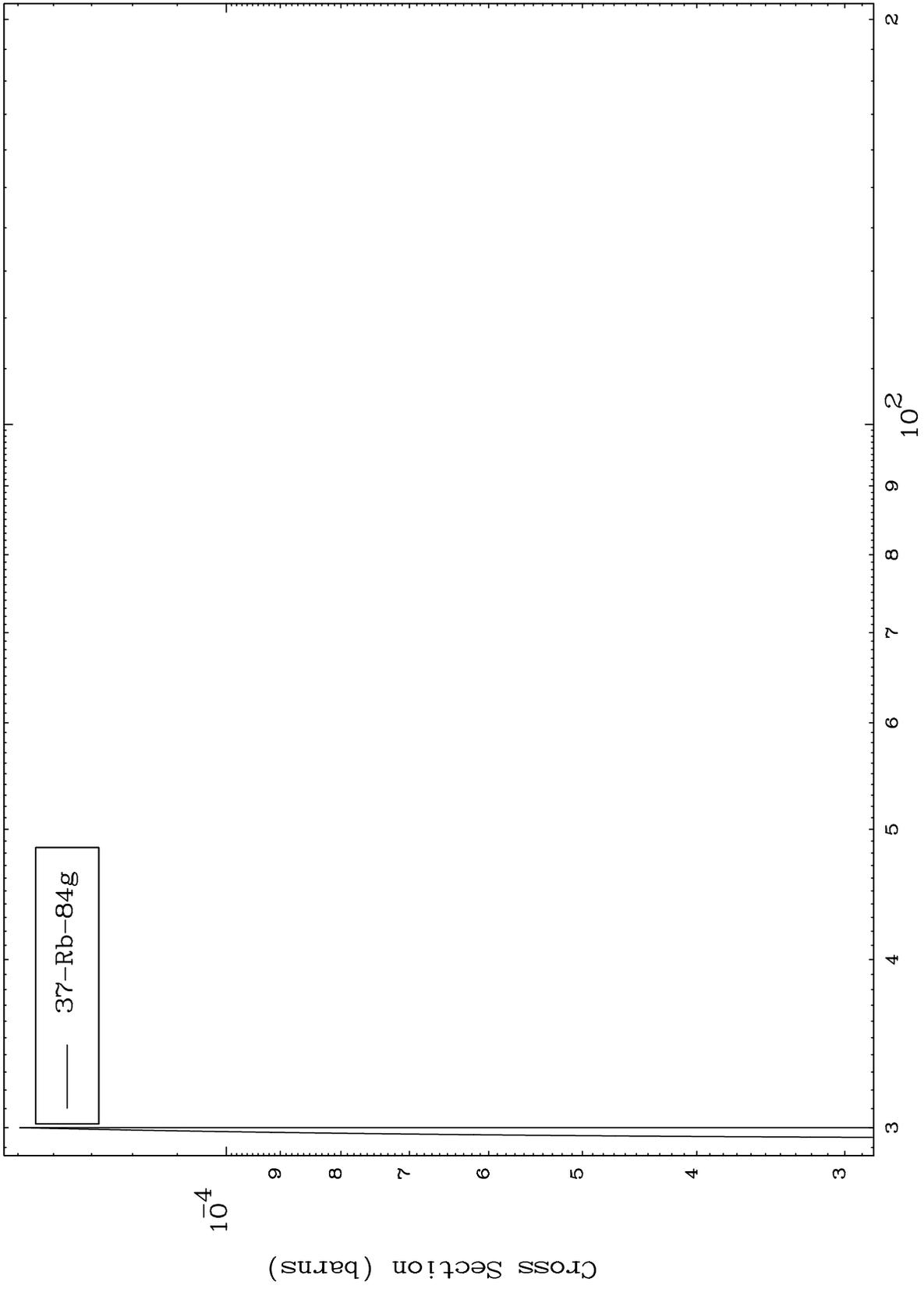
Incident Energy (MeV)

37-Rb-87

MAT 3731

37-Rb-87

(n,4n)
Radionuclide Production Cross Section



136

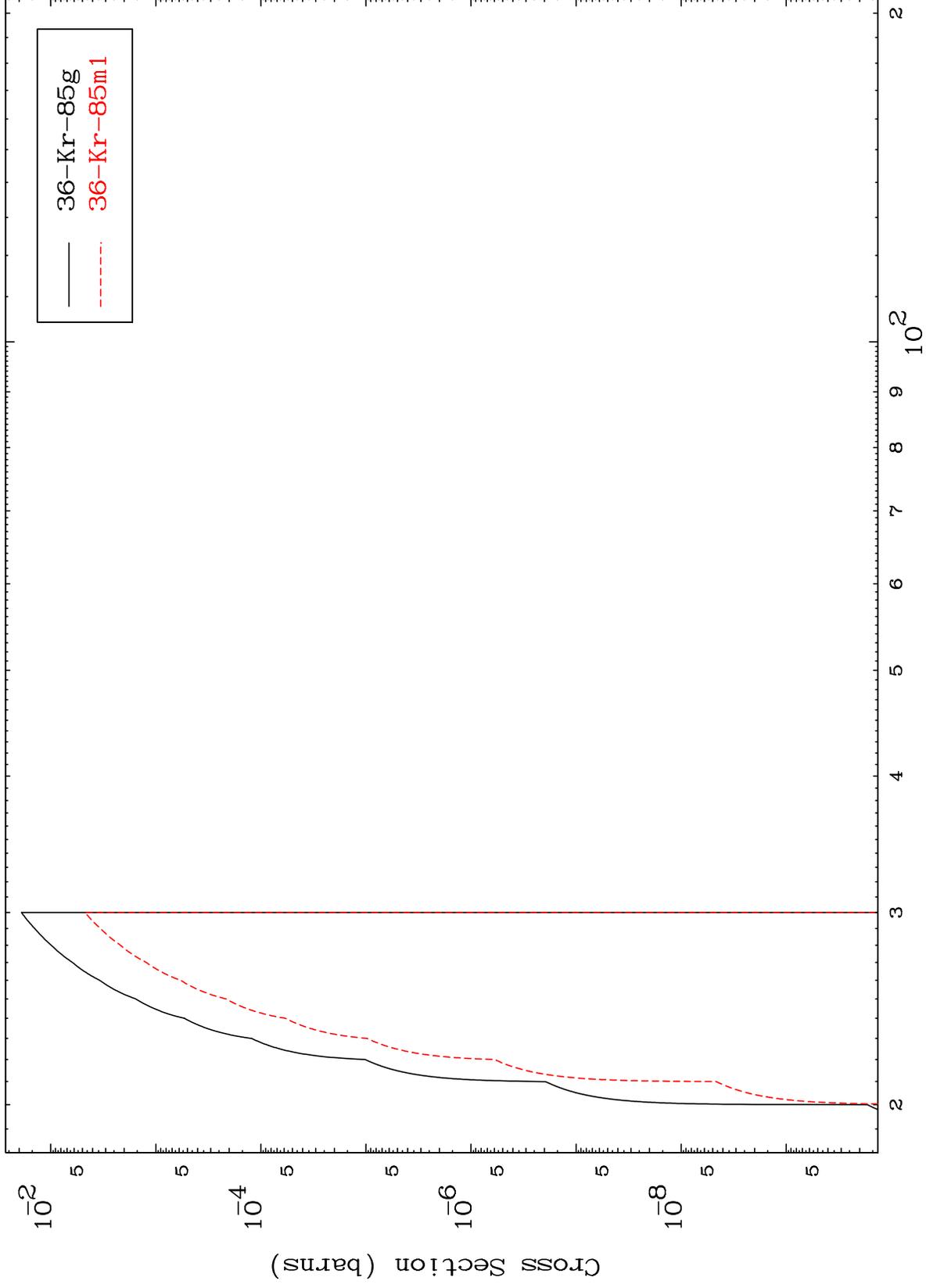
37-Rb-87

MAT 3731

(n,2n) p

37-Rb-87

Radionuclide Production Cross Section



137

Incident Energy (MeV)

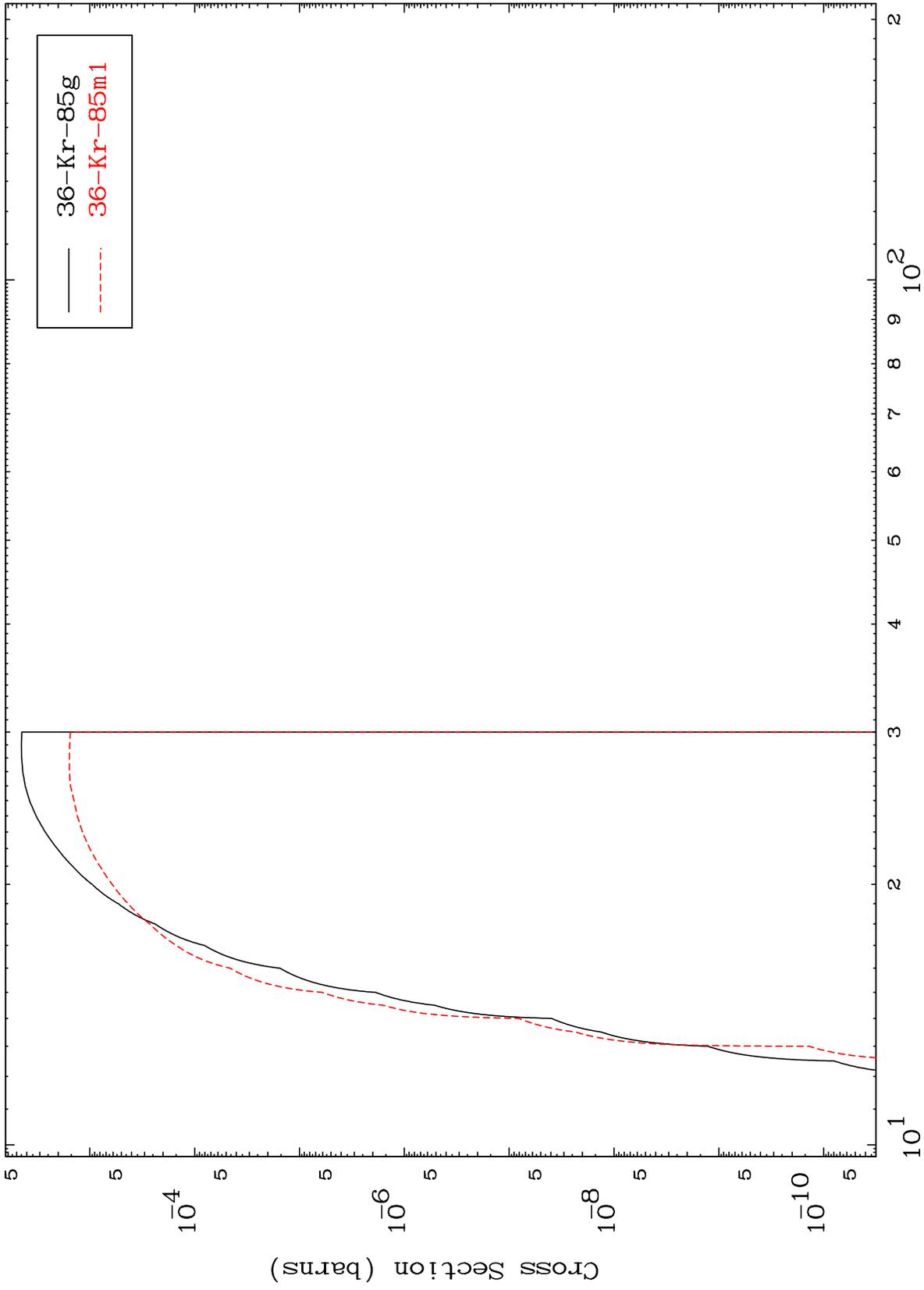
37-Rb-87

MAT 3731

(n, t)

37-Rb-87

Radionuclide Production Cross Section



138

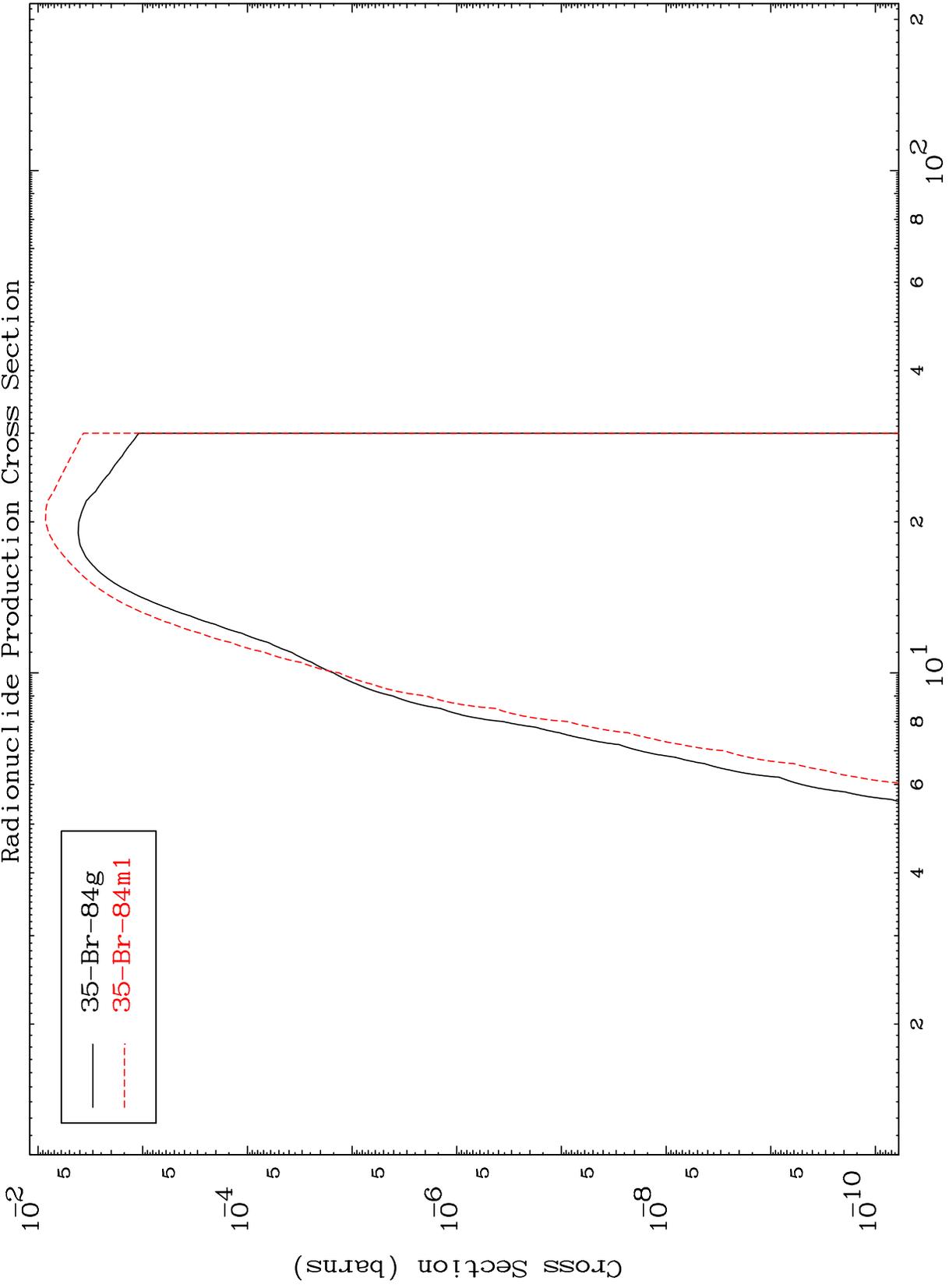
Incident Energy (MeV)

37-Rb-87

MAT 3731

37-Rb-87

Radionuclide Production Cross Section
(n, α)



35-Br-84g
35-Br-84m1

139

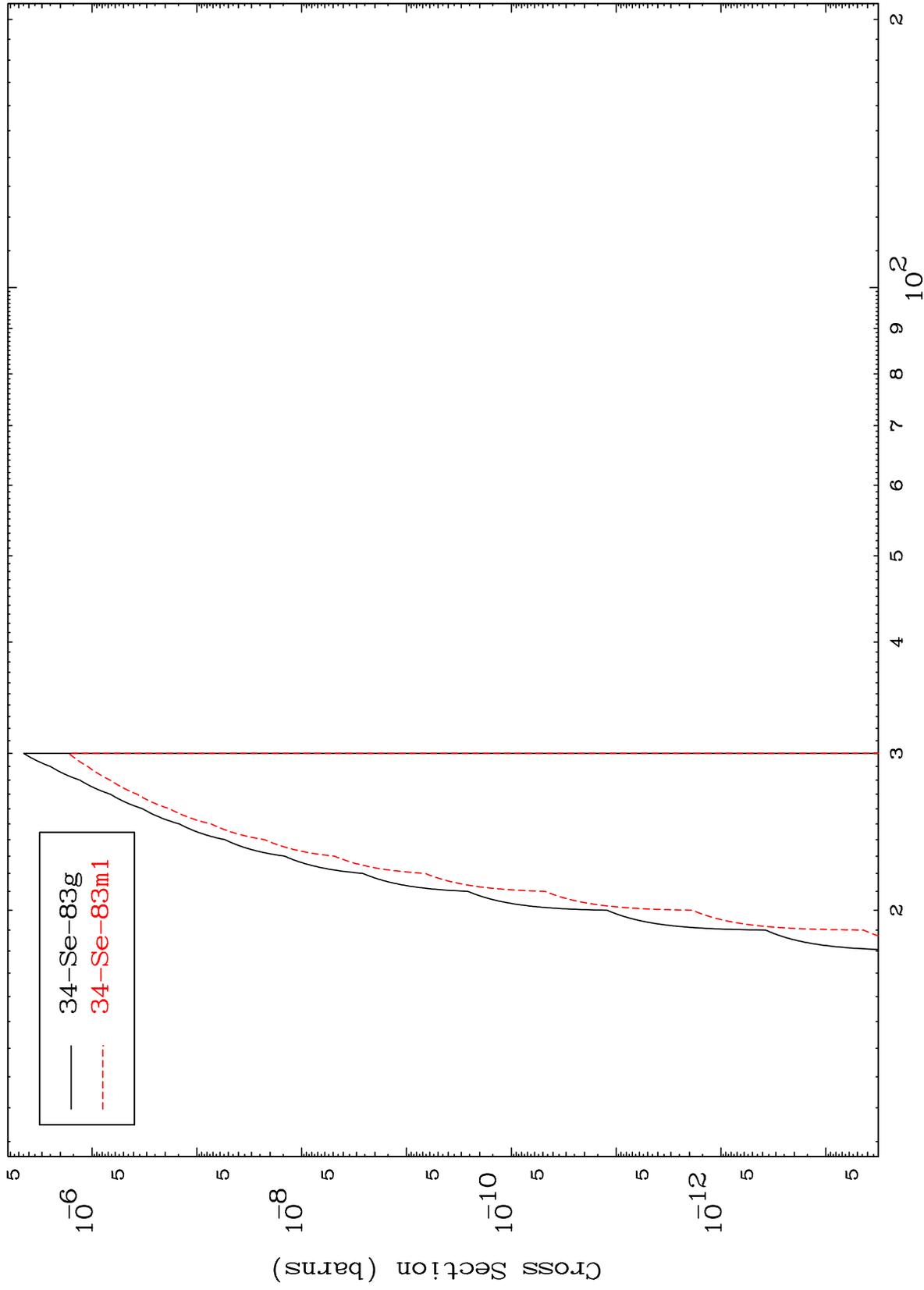
37-Rb-87

MAT 3731

(n,p) α

37-Rb-87

Radionuclide Production Cross Section



140

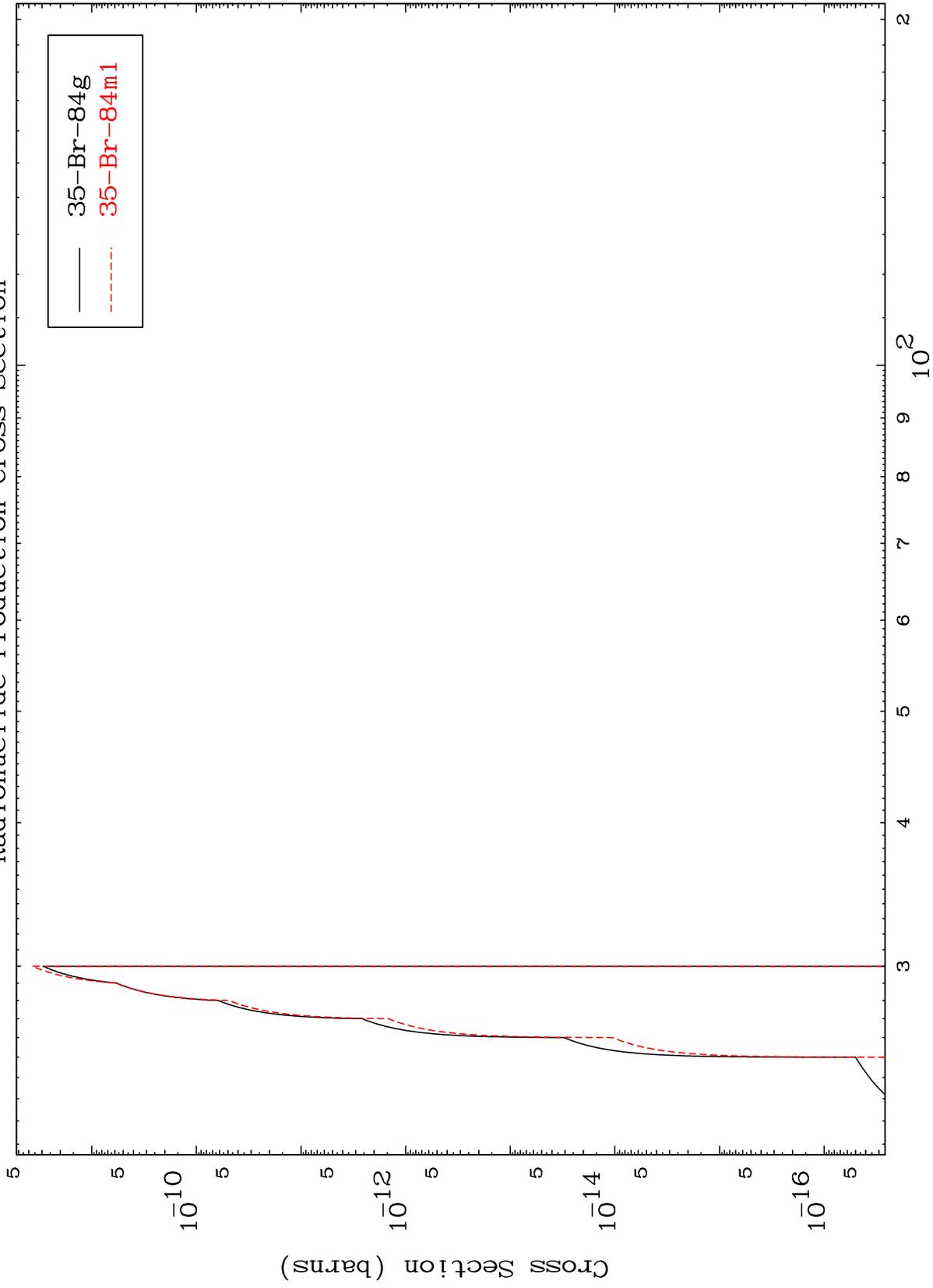
37-Rb-87

MAT 3731

(n,p) t

37-Rb-87

Radionuclide Production Cross Section



141

Incident Energy (MeV)

37-Rb-87