

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

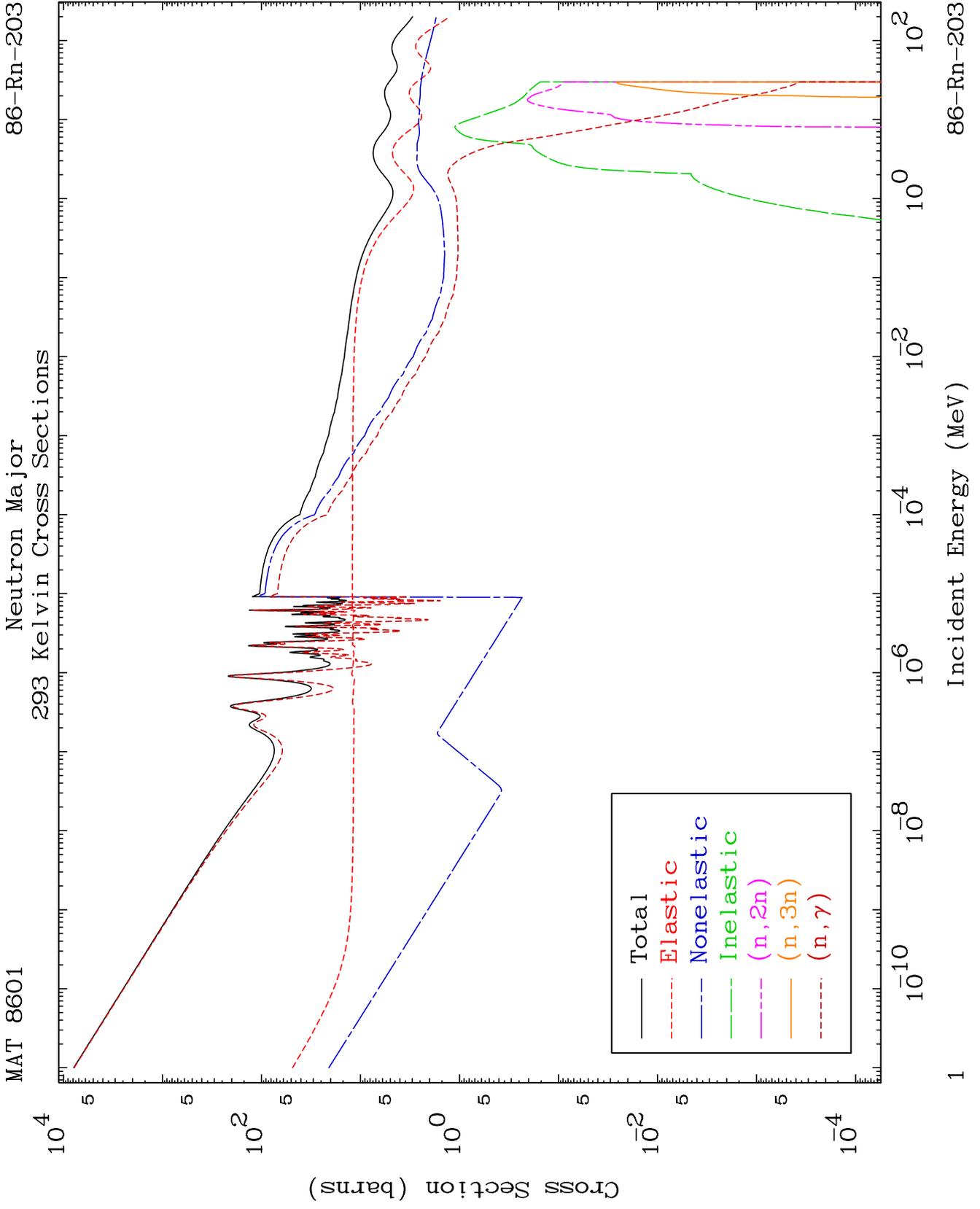
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E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

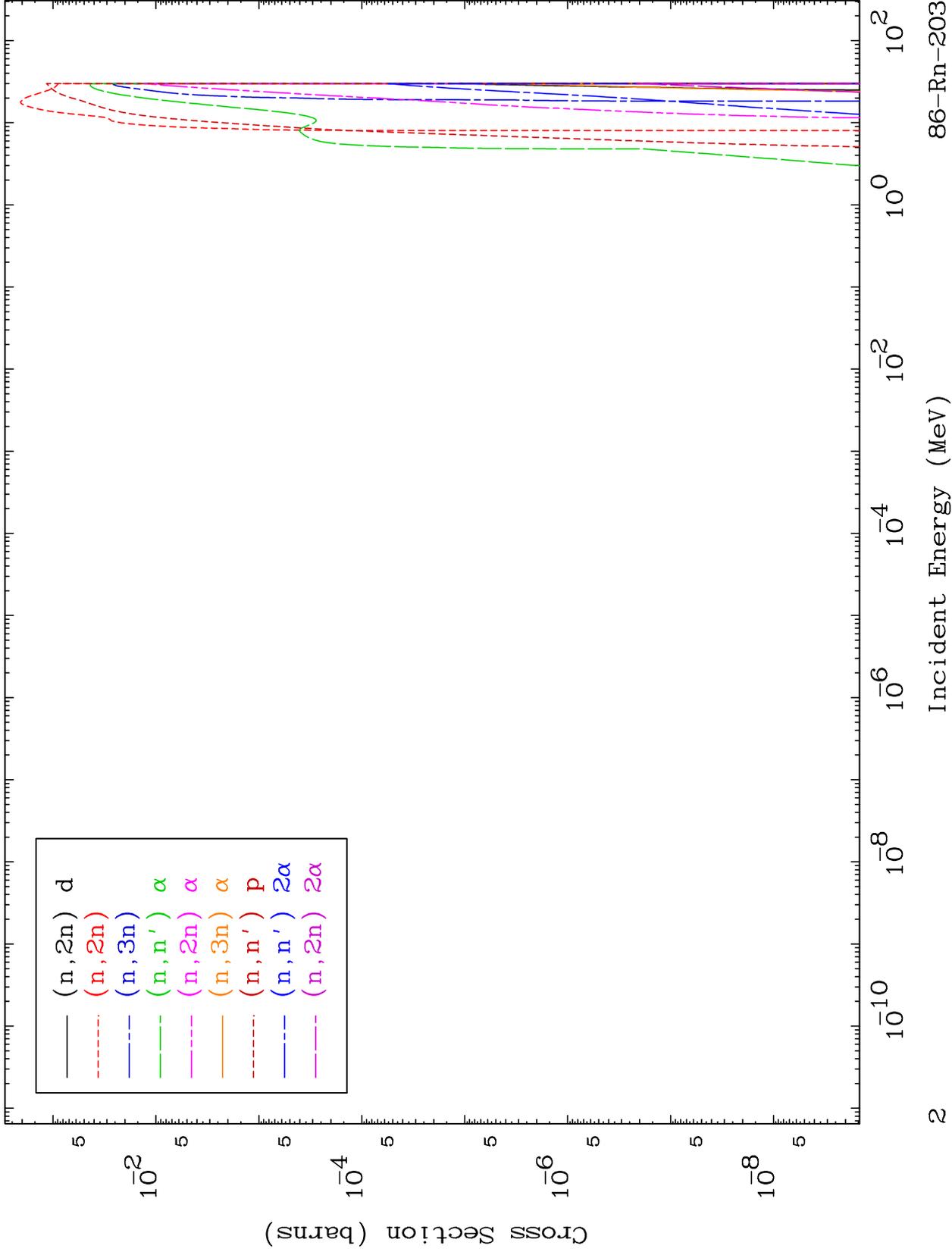
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MAT 8601

Neutron Absorption
293 Kelvin Cross Sections

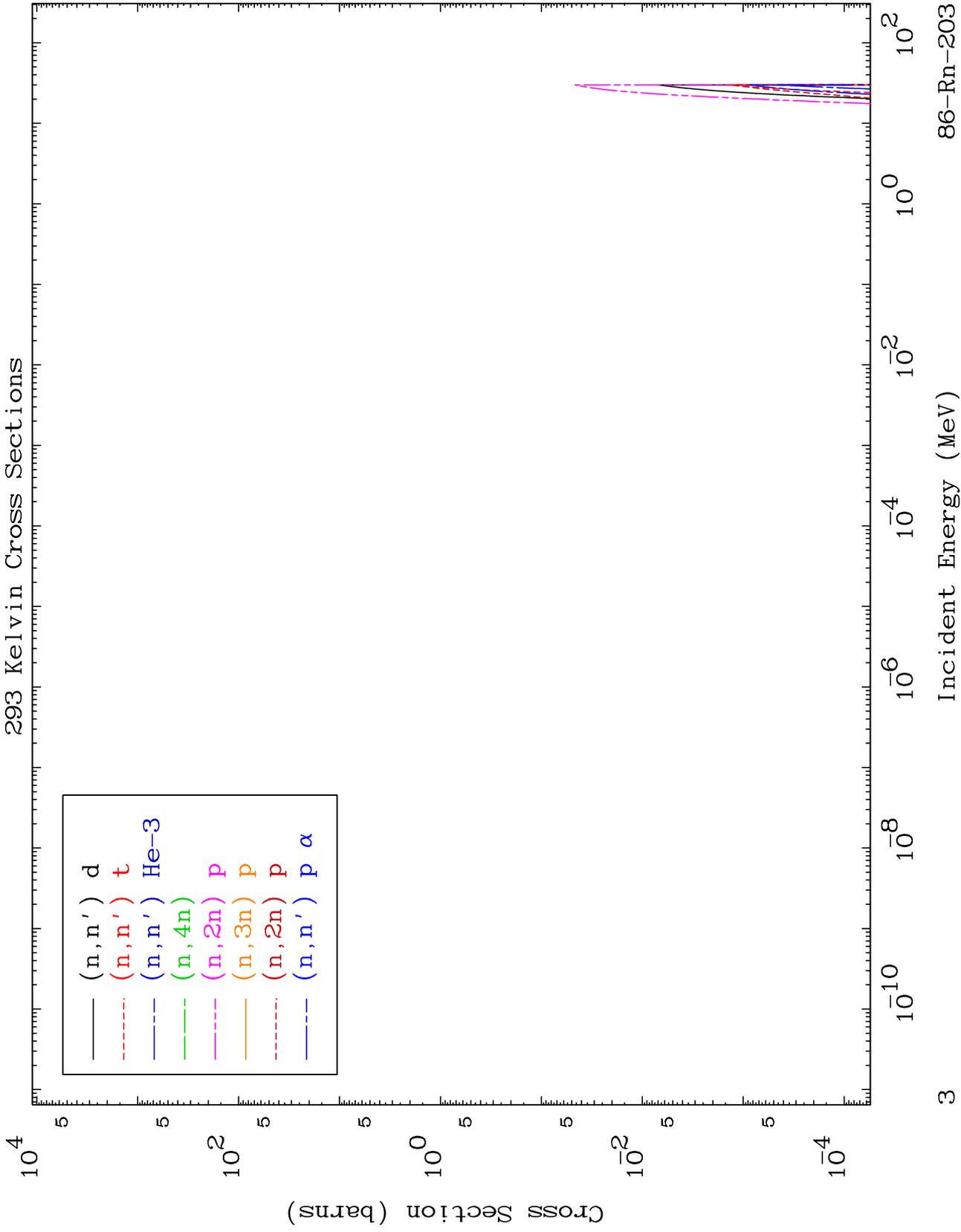
86-Rn-203



MAT 8601

Neutron Absorption
293 Kelvin Cross Sections

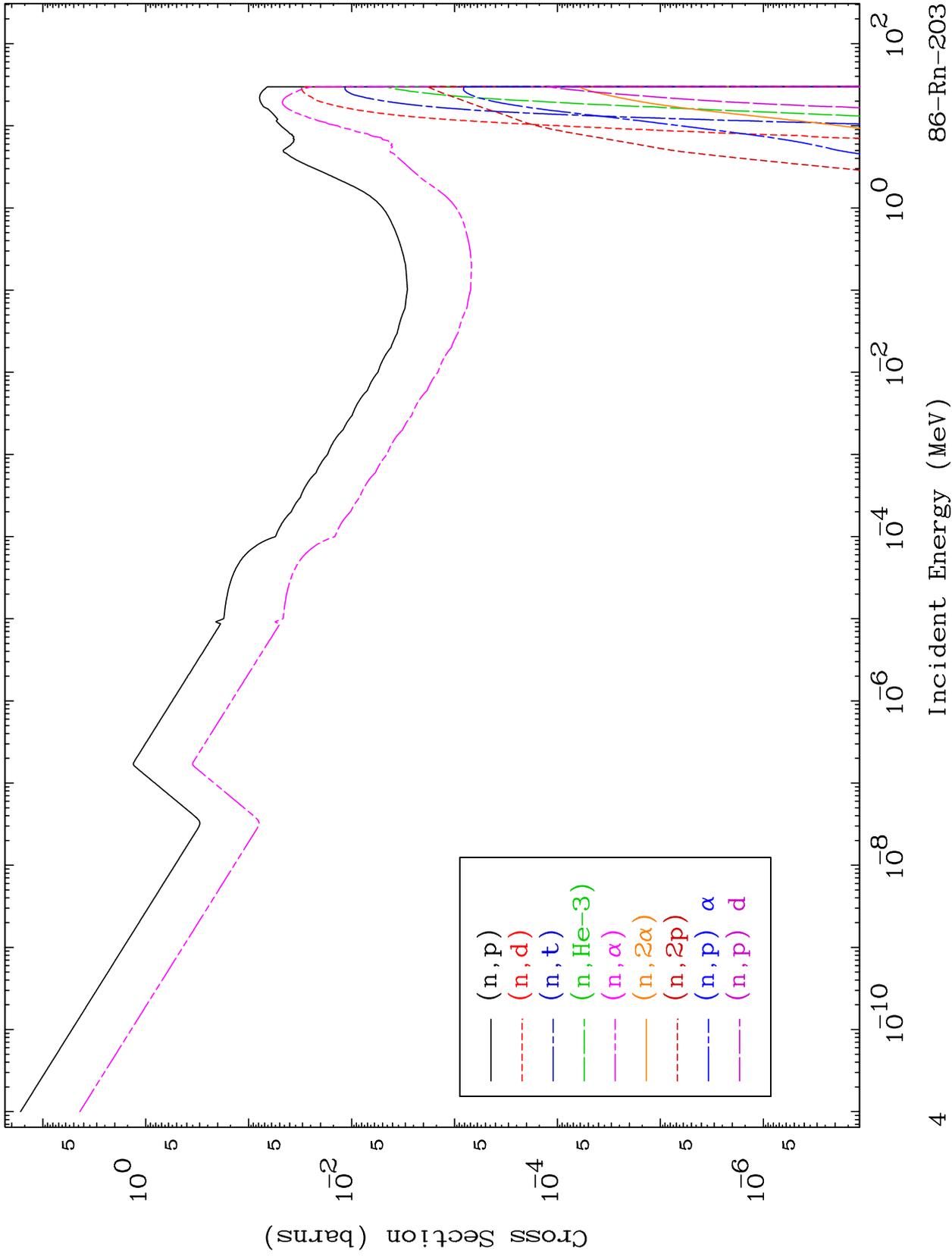
86-Rn-203



MAT 8601

Neutron Absorption
293 Kelvin Cross Sections

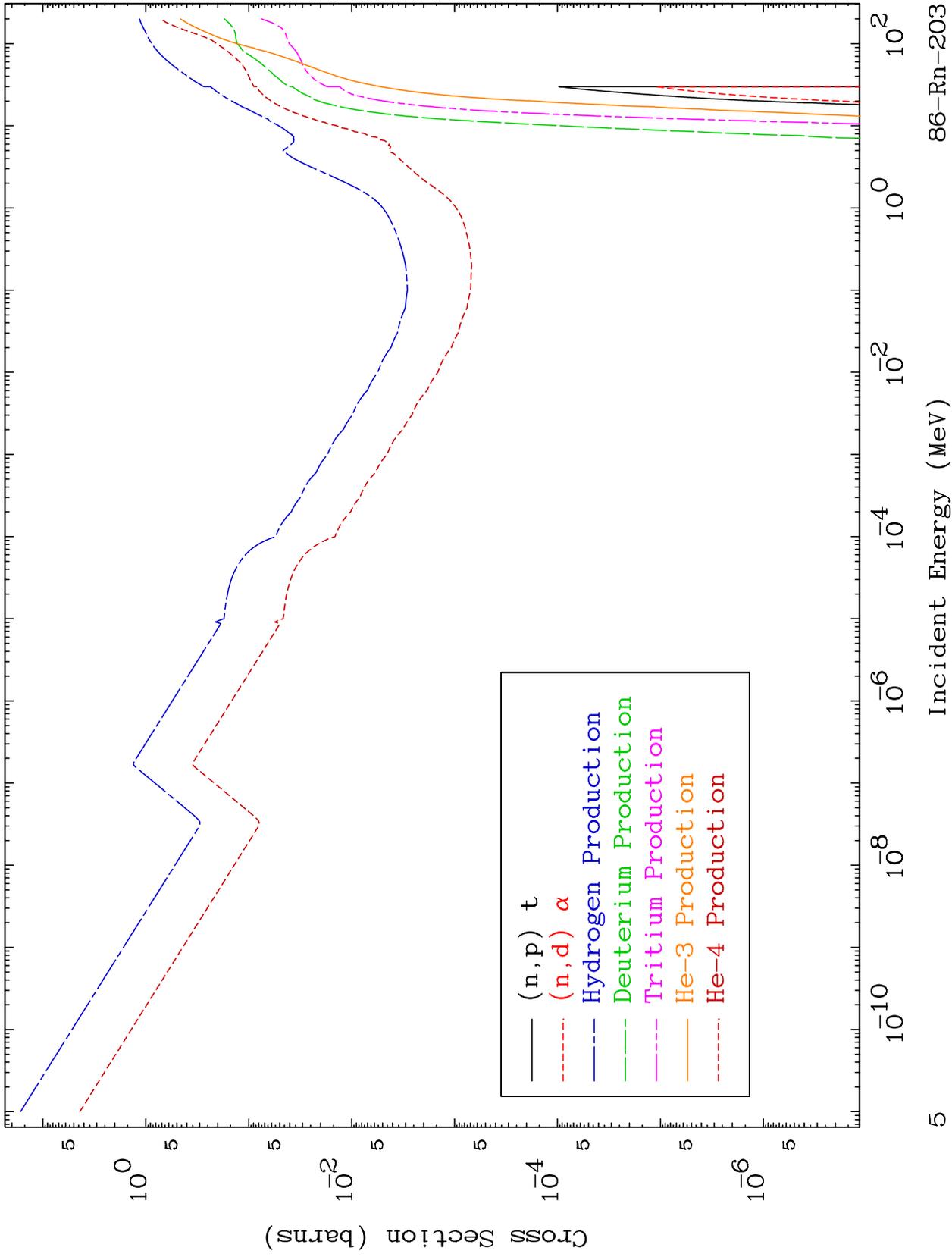
86-Rn-203



MAT 8601

Neutron Absorption
293 Kelvin Cross Sections

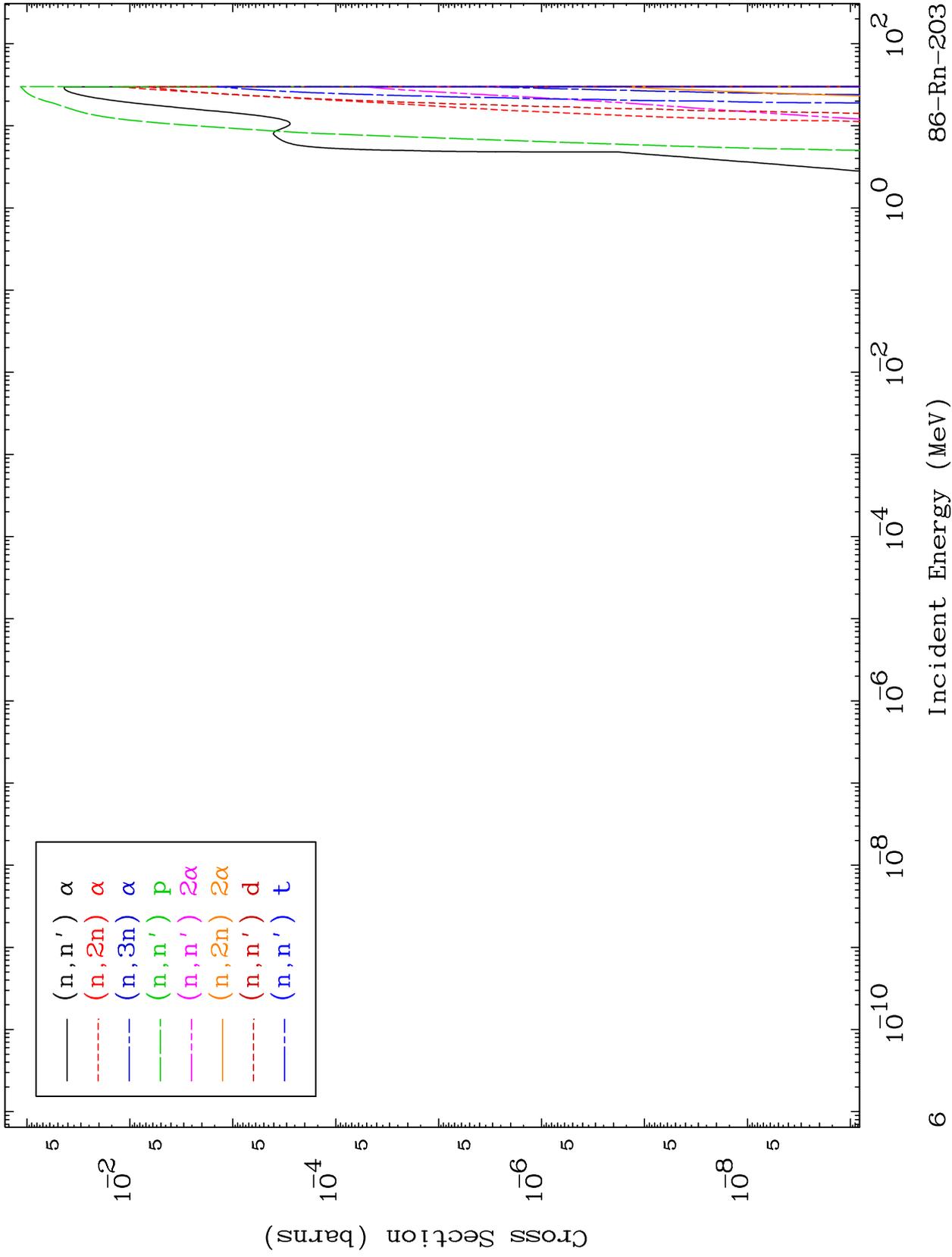
86-Rn-203



MAT 8601

Charged Particle
293 Kelvin Cross Sections

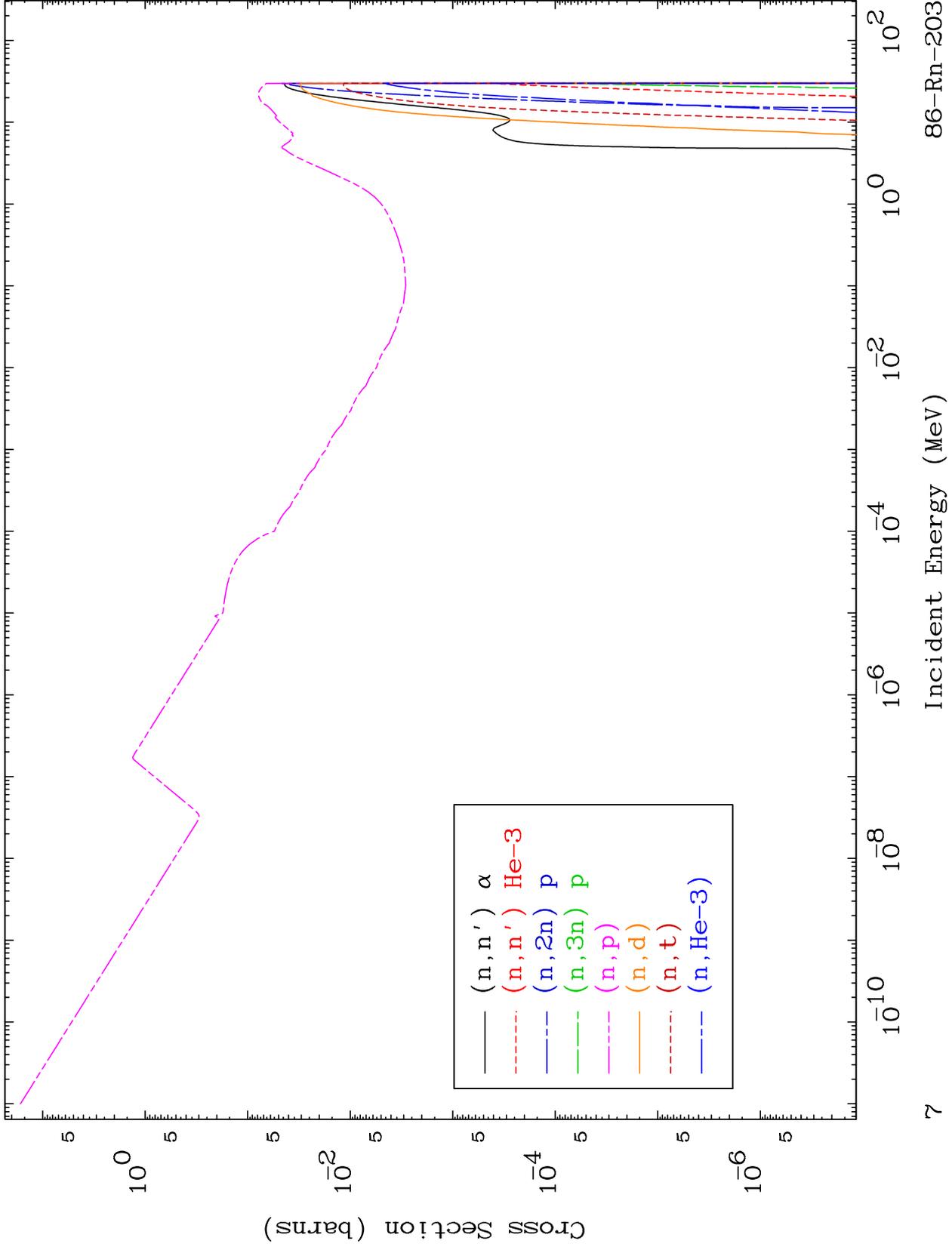
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MAT 8601

Charged Particle
293 Kelvin Cross Sections

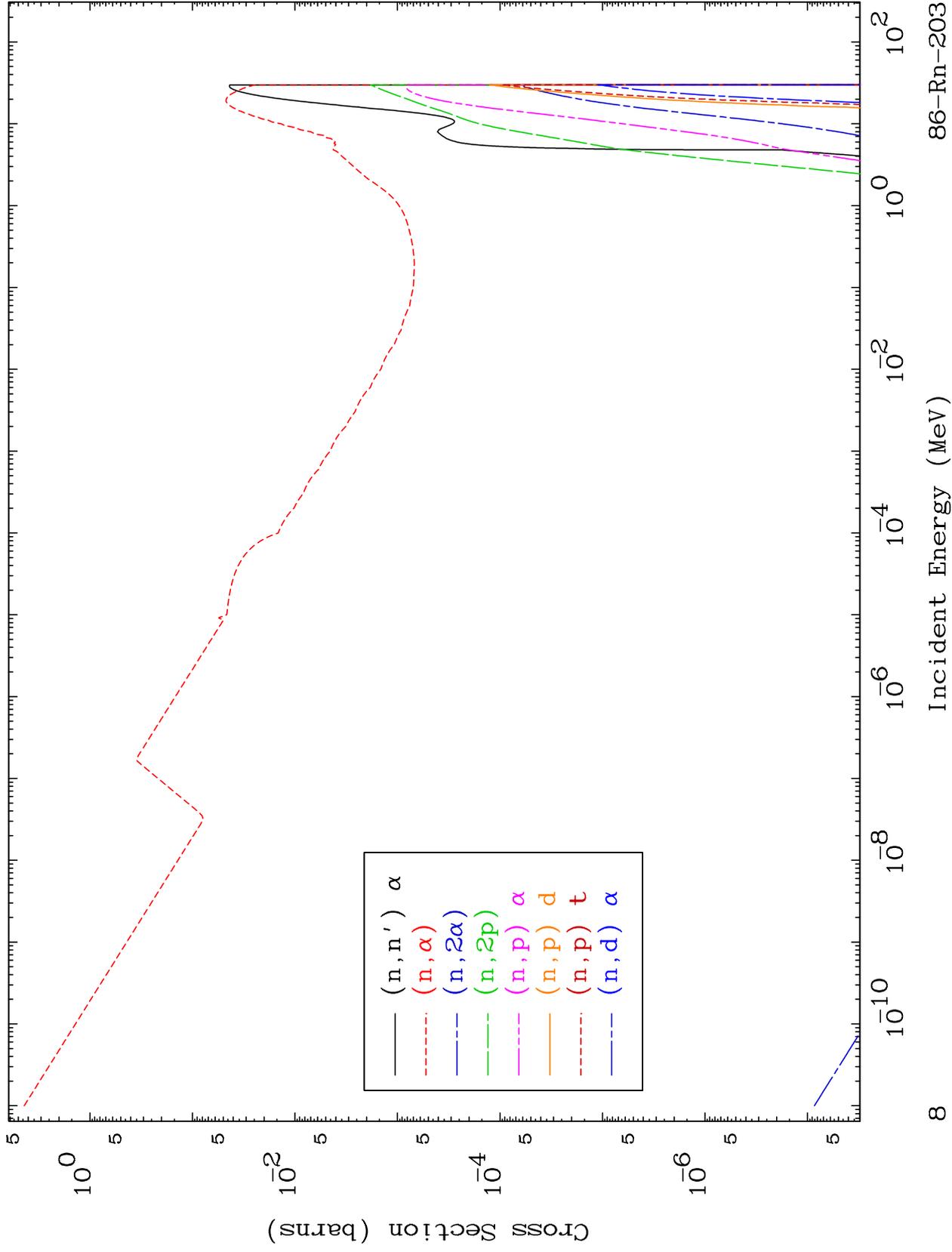
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MAT 8601

Charged Particle
293 Kelvin Cross Sections

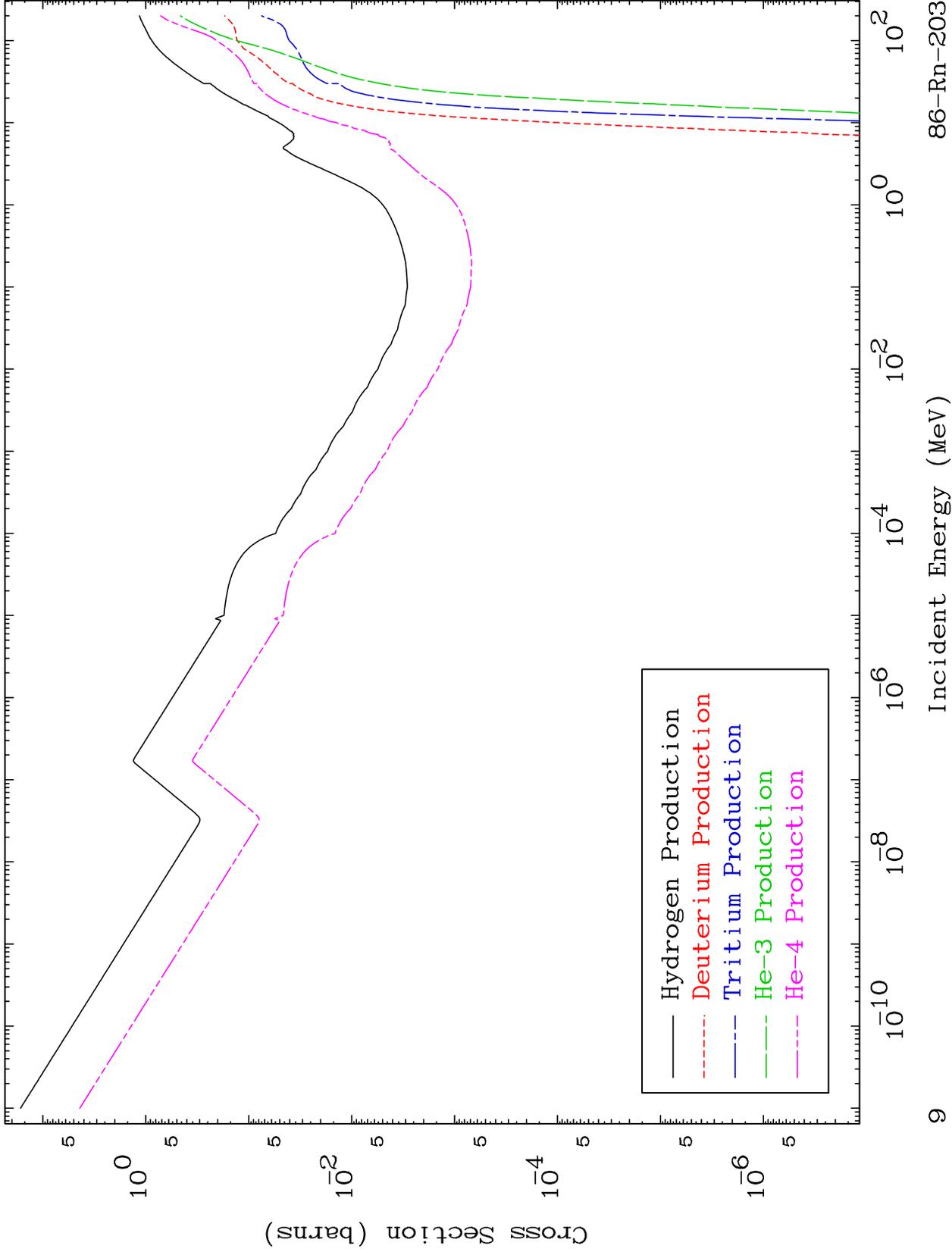
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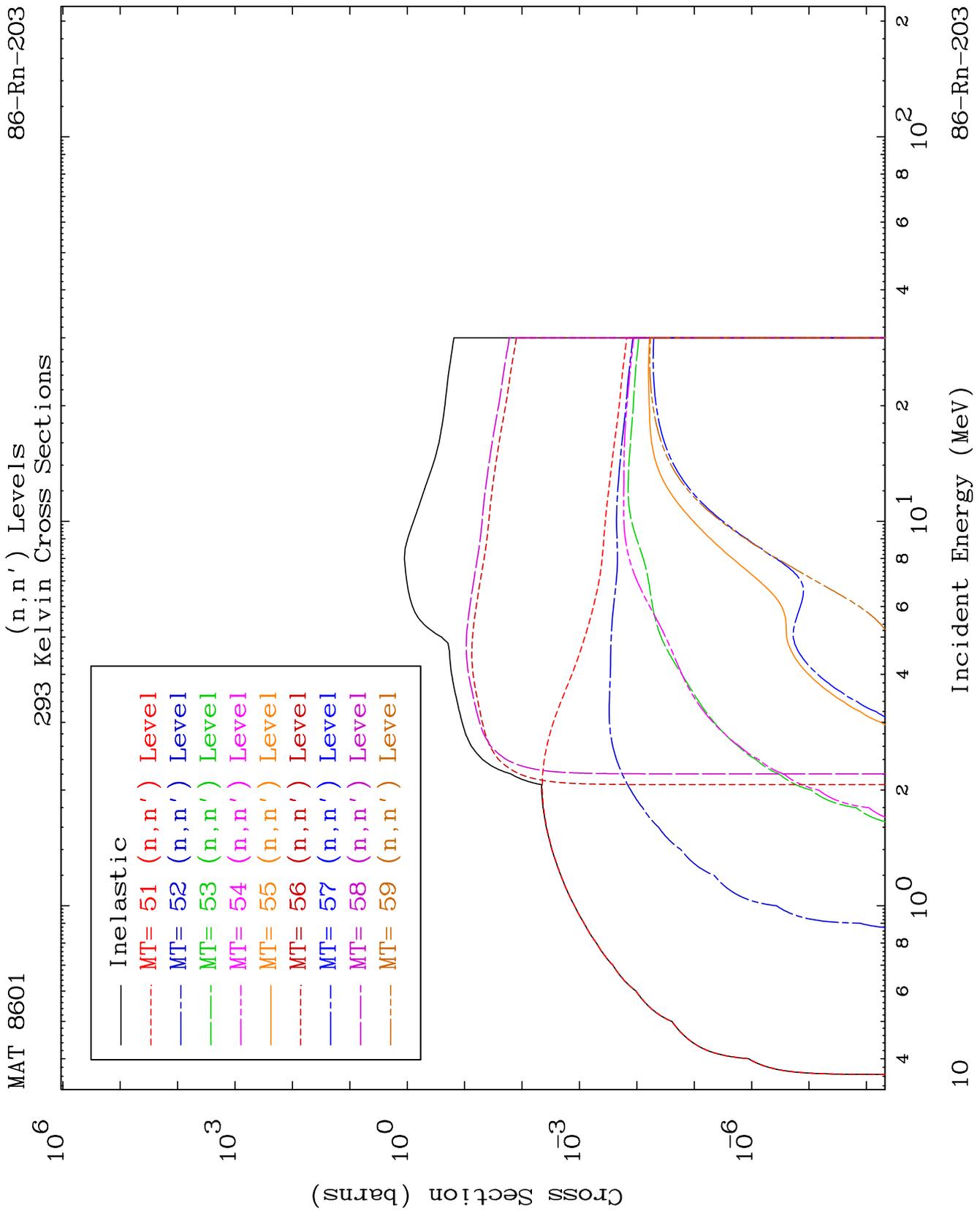


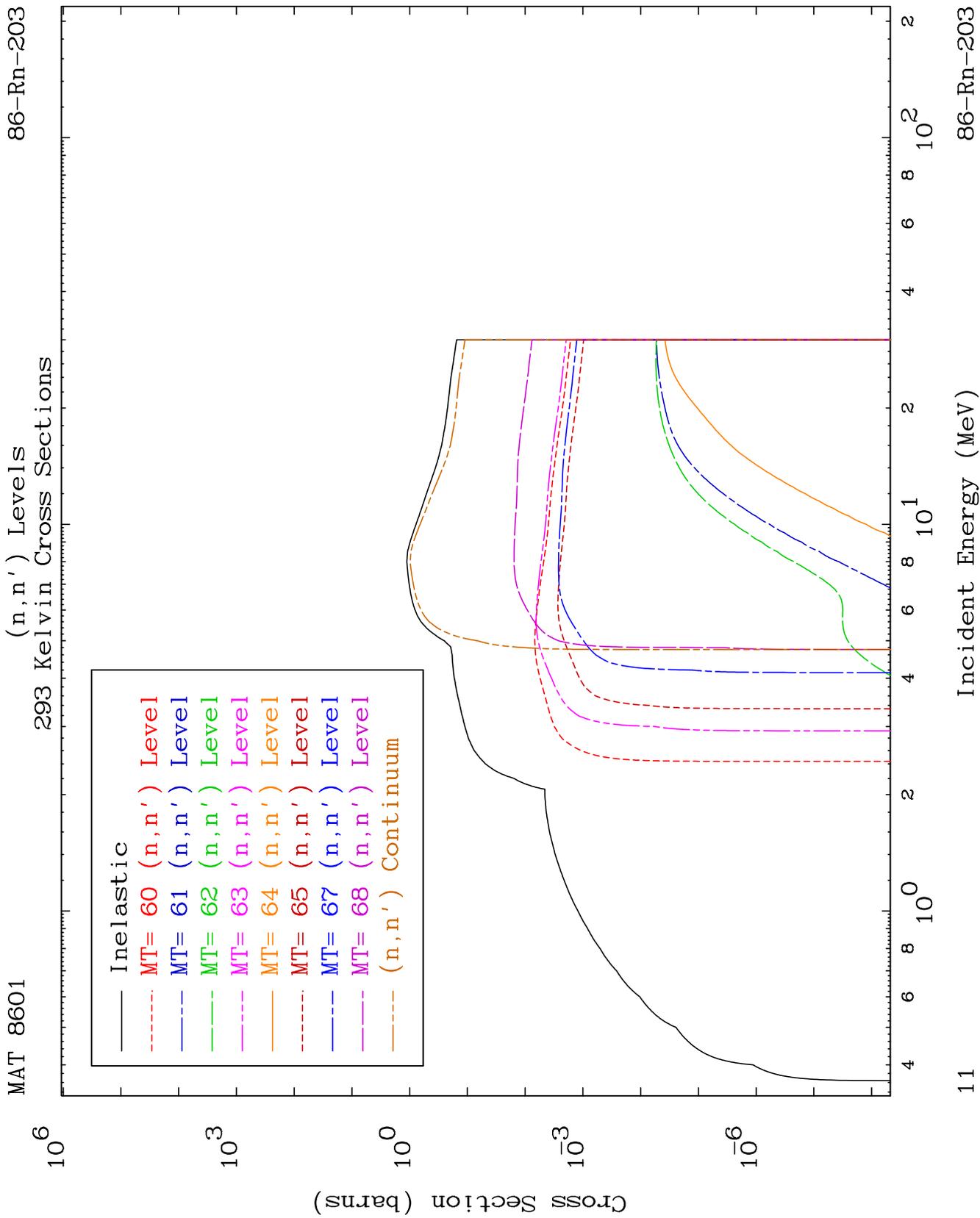
MAT 8601

Particle Production
293 Kelvin Cross Sections

86-Rn-203



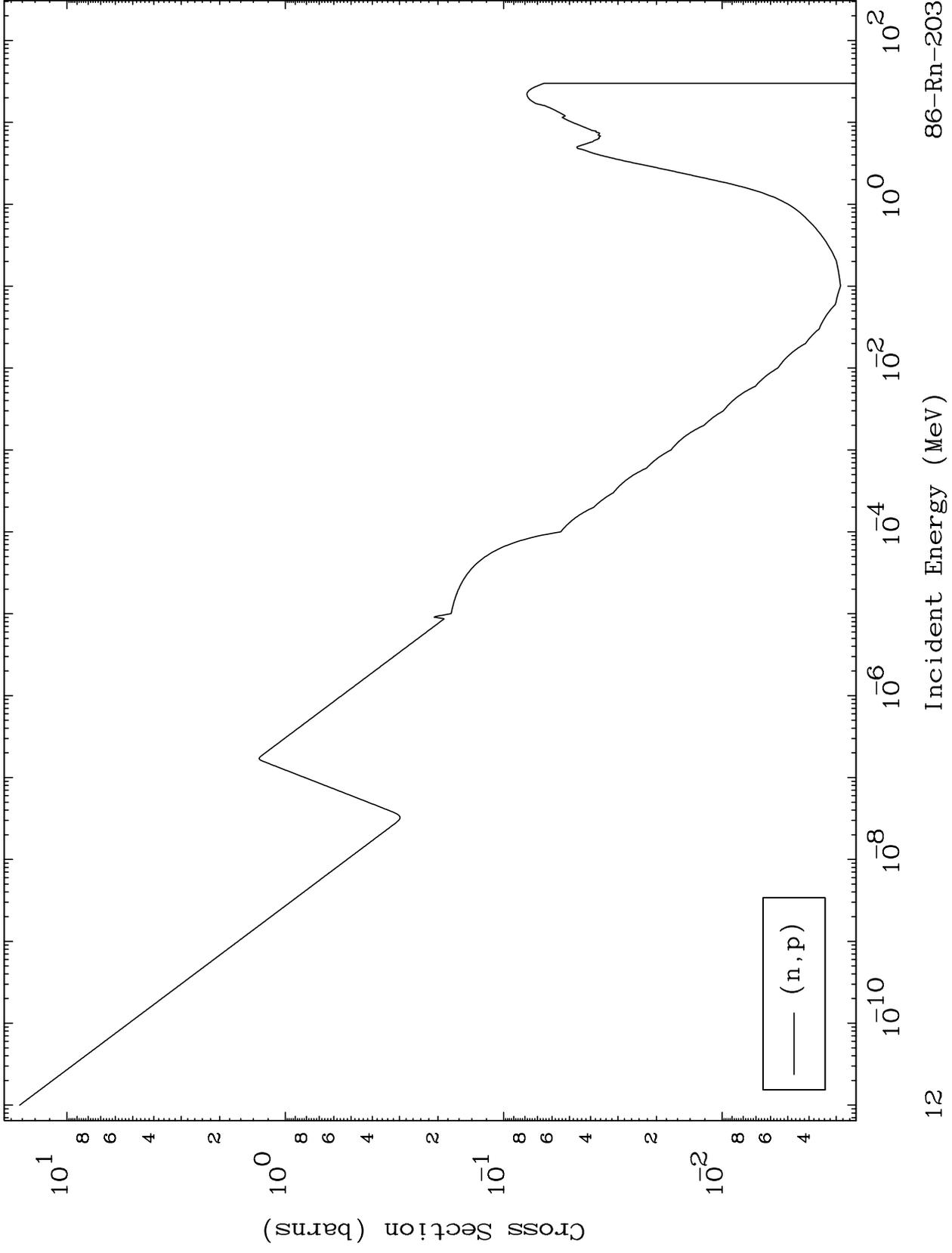




MAT 8601

(n,p) Levels
293 Kelvin Cross Sections

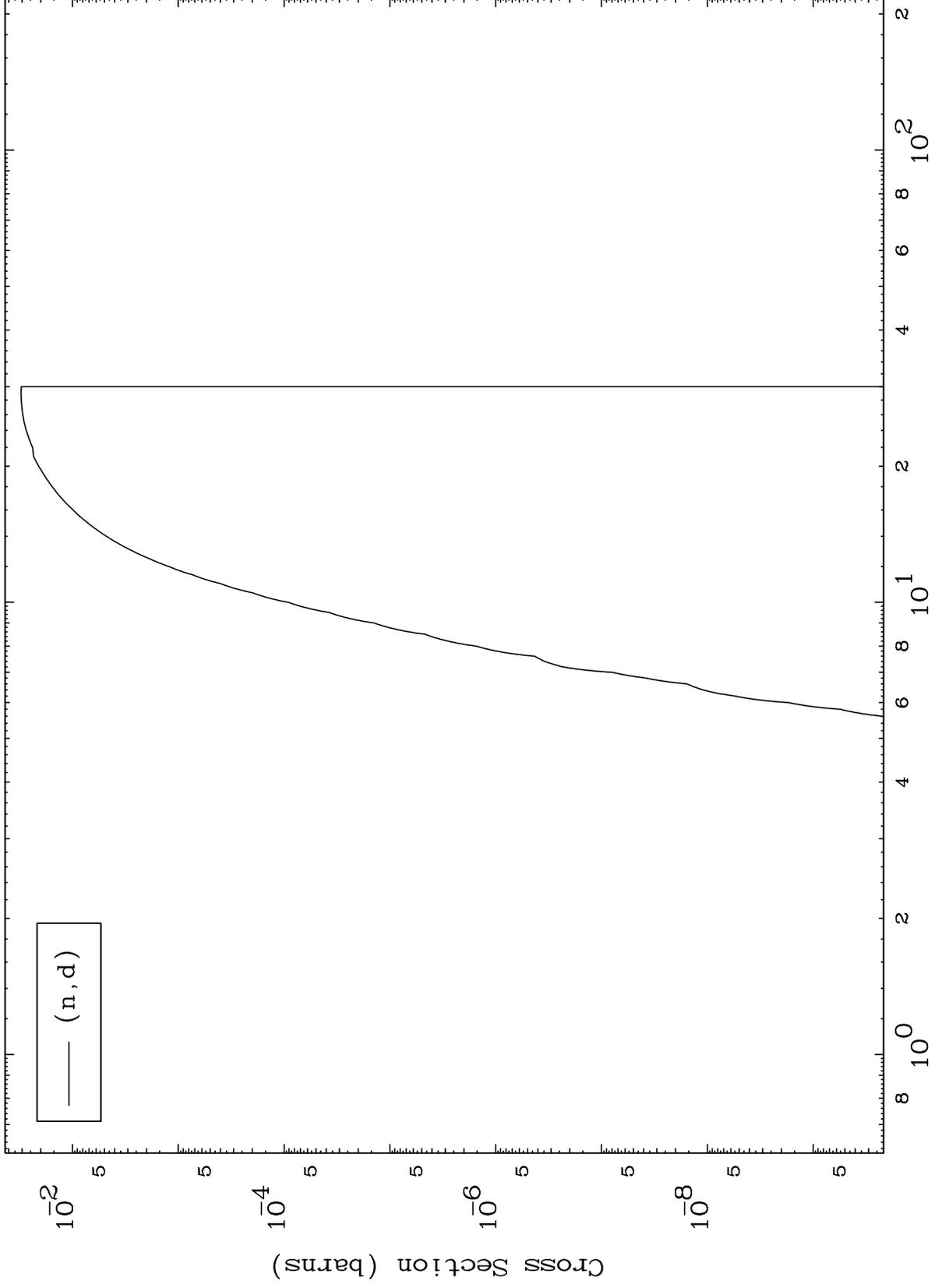
86-Rn-203



MAT 8601

(n,d) Levels
293 Kelvin Cross Sections

86-Rn-203



13

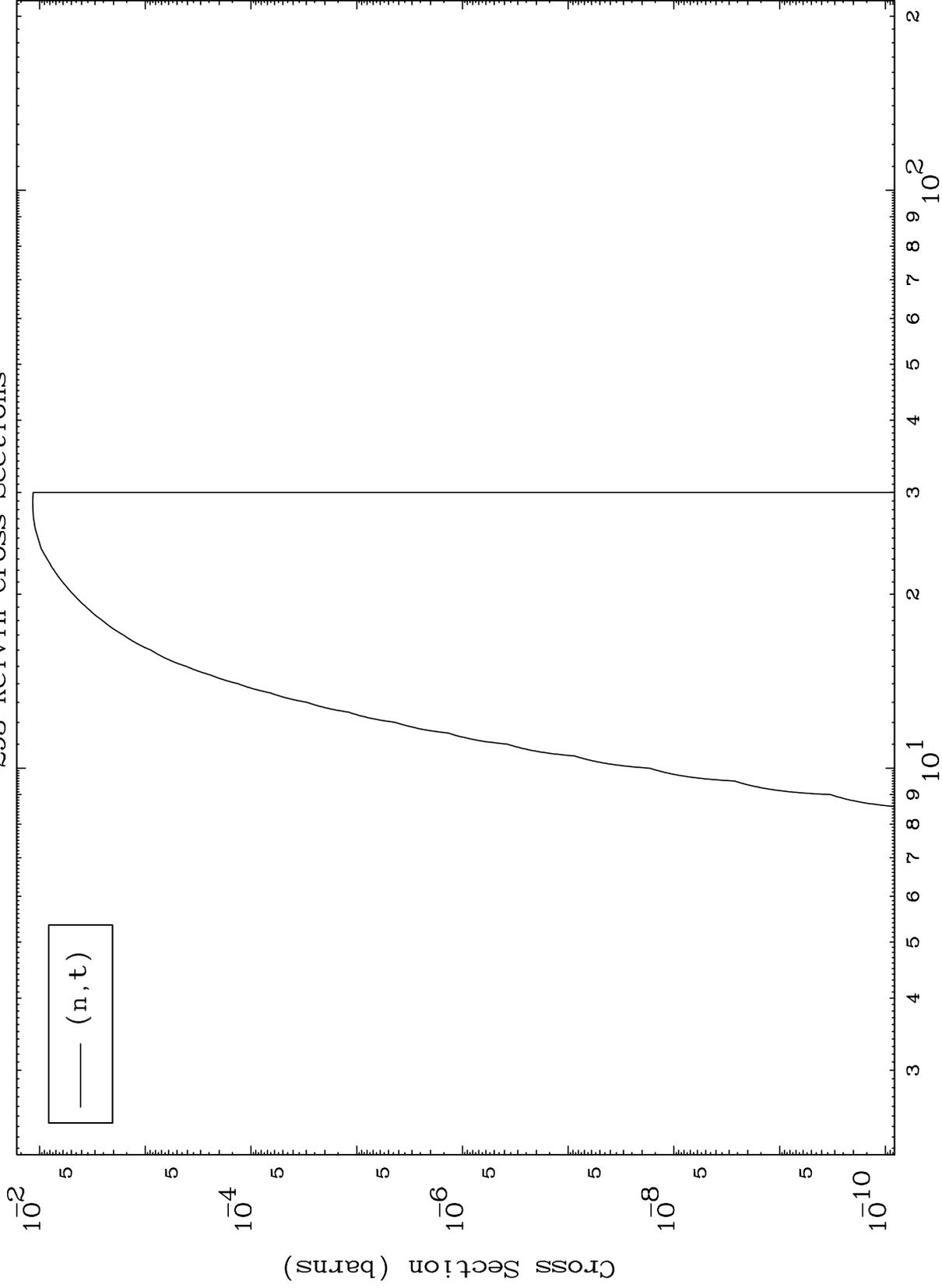
Incident Energy (MeV)

86-Rn-203

MAT 8601

(n,t) Levels
293 Kelvin Cross Sections

86-Rn-203



14

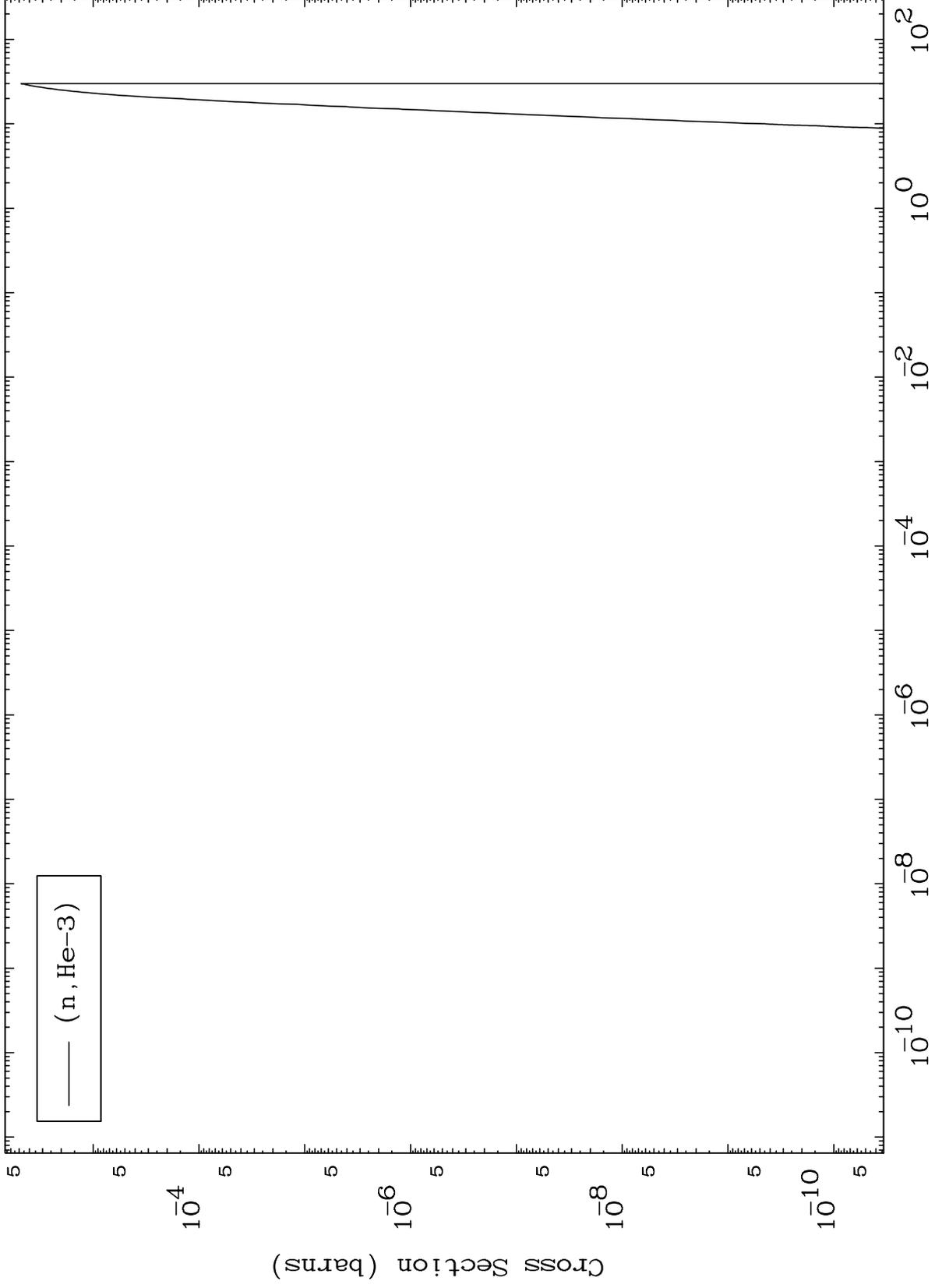
Incident Energy (MeV)

86-Rn-203

MAT 8601

(n,He3) Levels
293 Kelvin Cross Sections

86-Rn-203



15

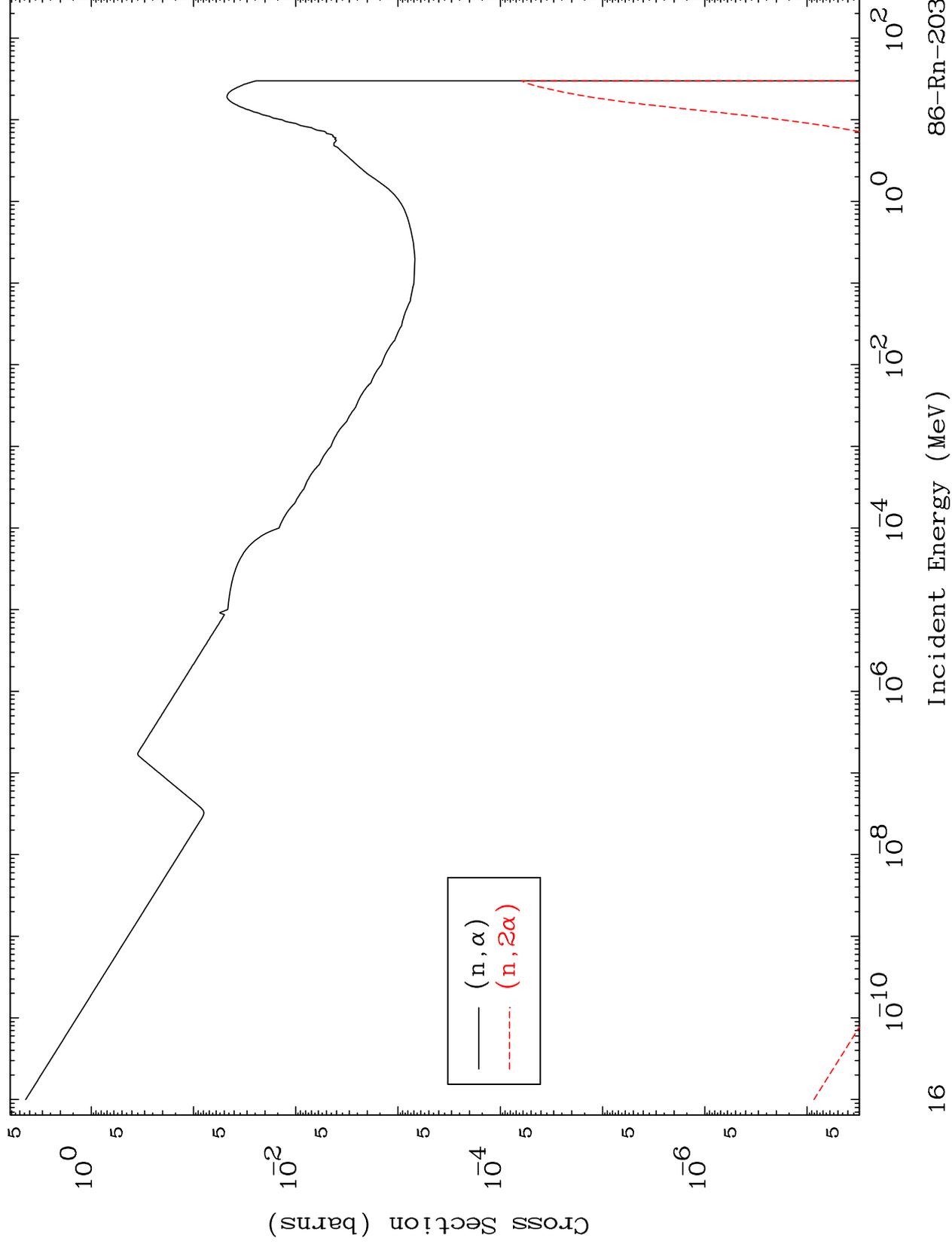
Incident Energy (MeV)

86-Rn-203

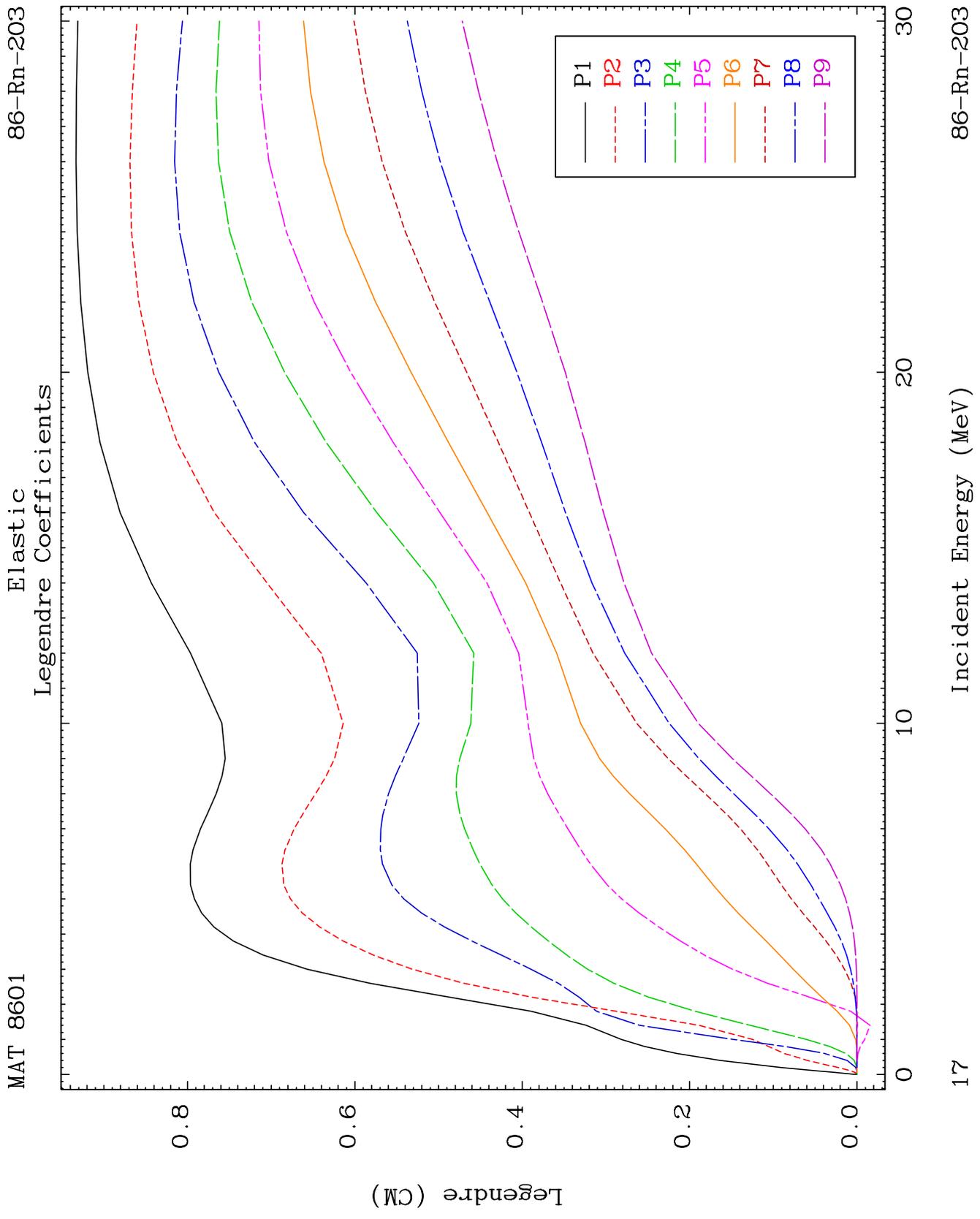
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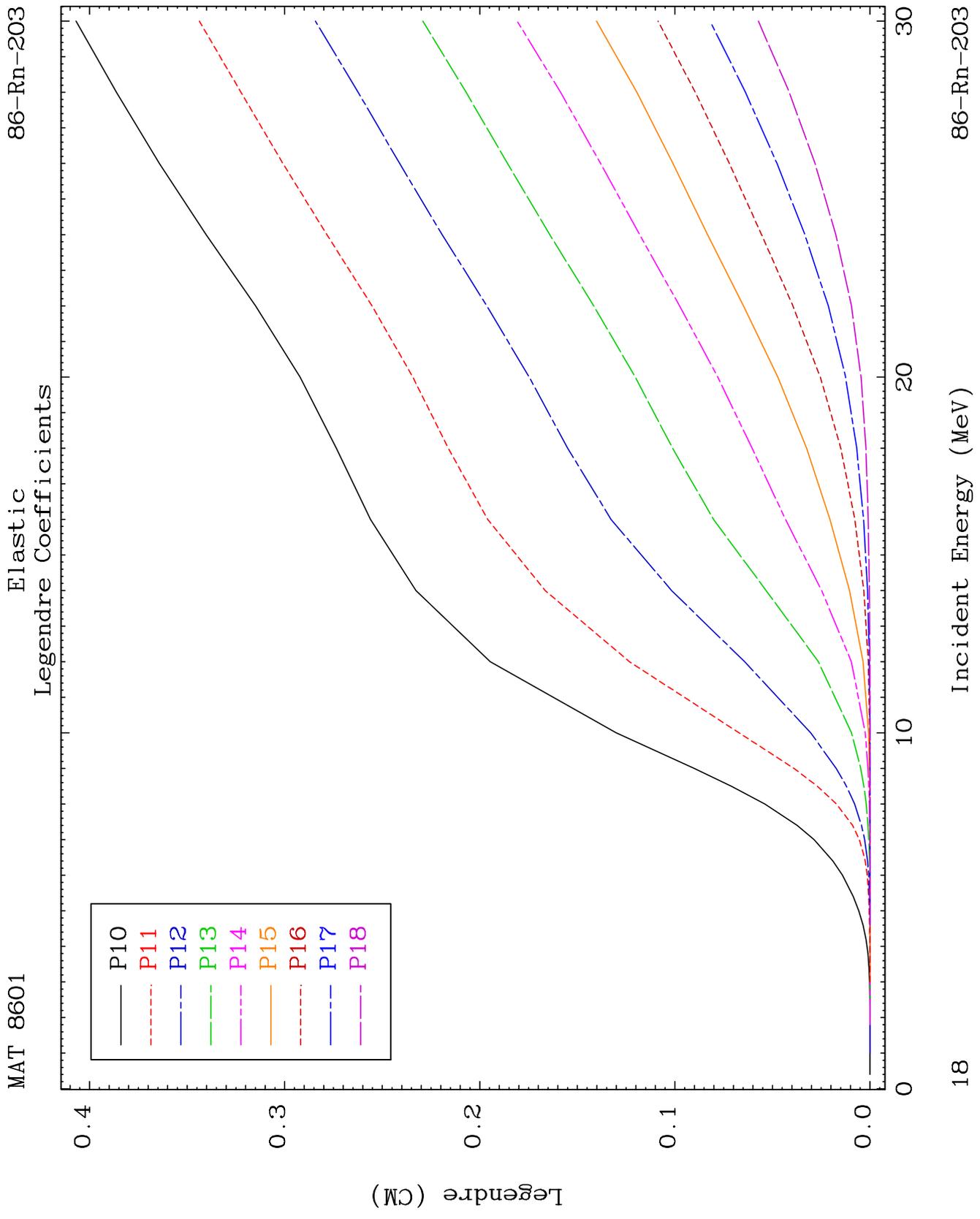
(n, α) Levels
293 Kelvin Cross Sections

86-Rn-203



16

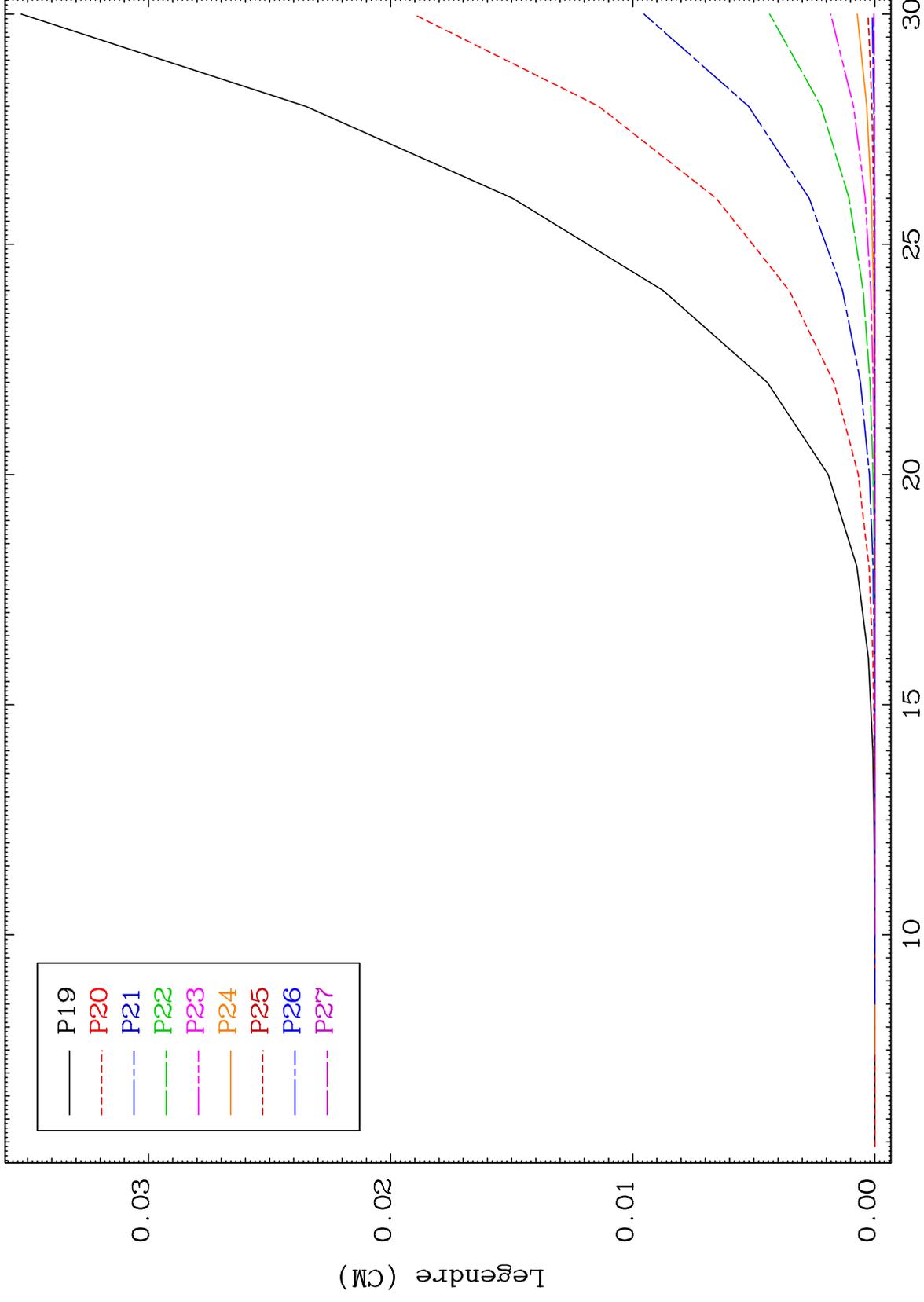




MAT 8601

Elastic
Legendre Coefficients

86-Rn-203



19

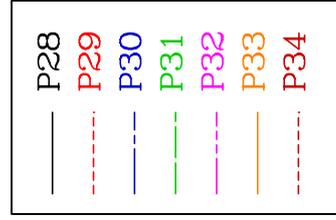
Incident Energy (MeV)

86-Rn-203

MAT 8601

Elastic
Legendre Coefficients

86-Rn-203



$\times 10^{-5}$
1.2

1.0

0.8

0.6

0.4

0.2

0.0

Legendre (CM)

15

20

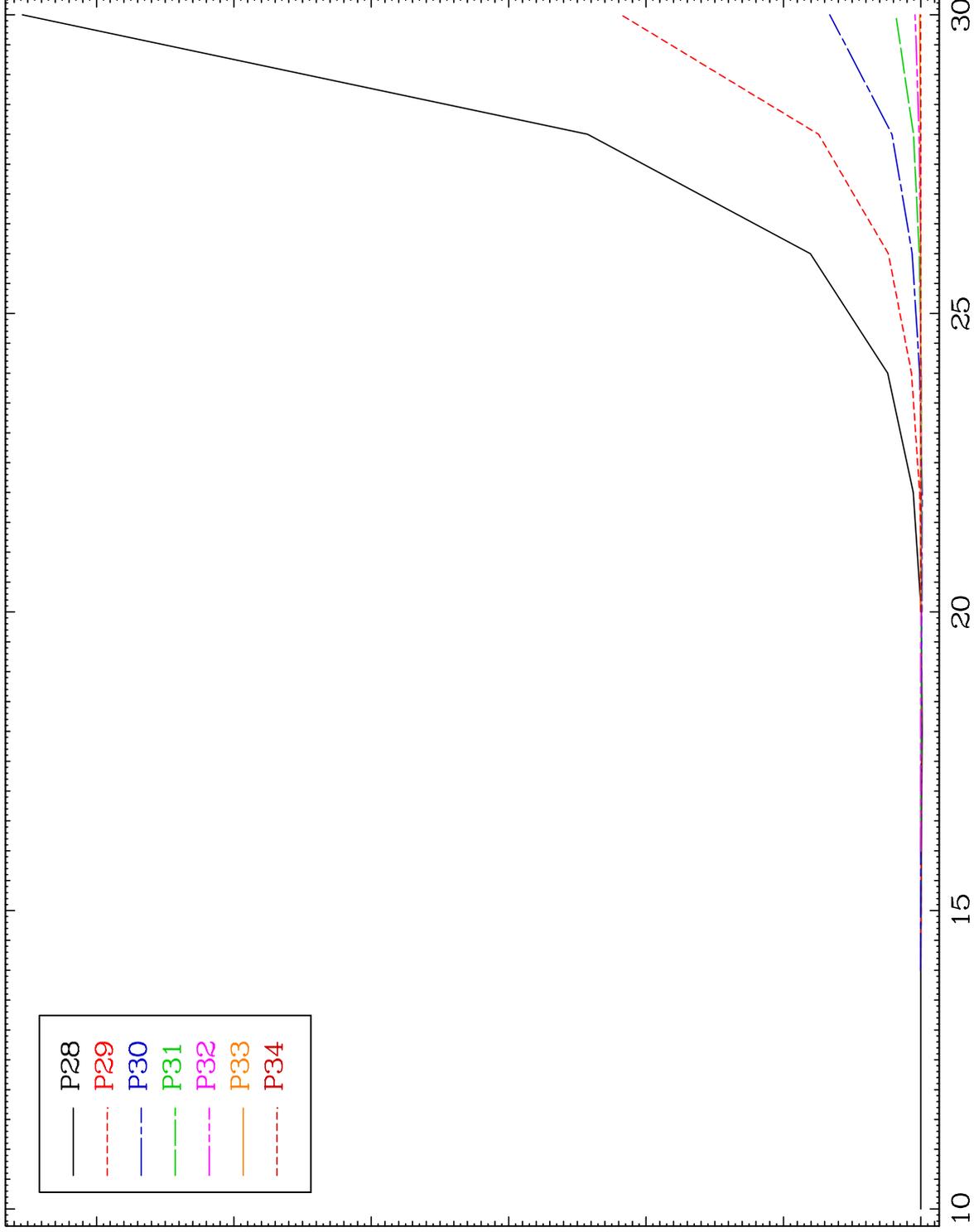
25

30

20

Incident Energy (MeV)

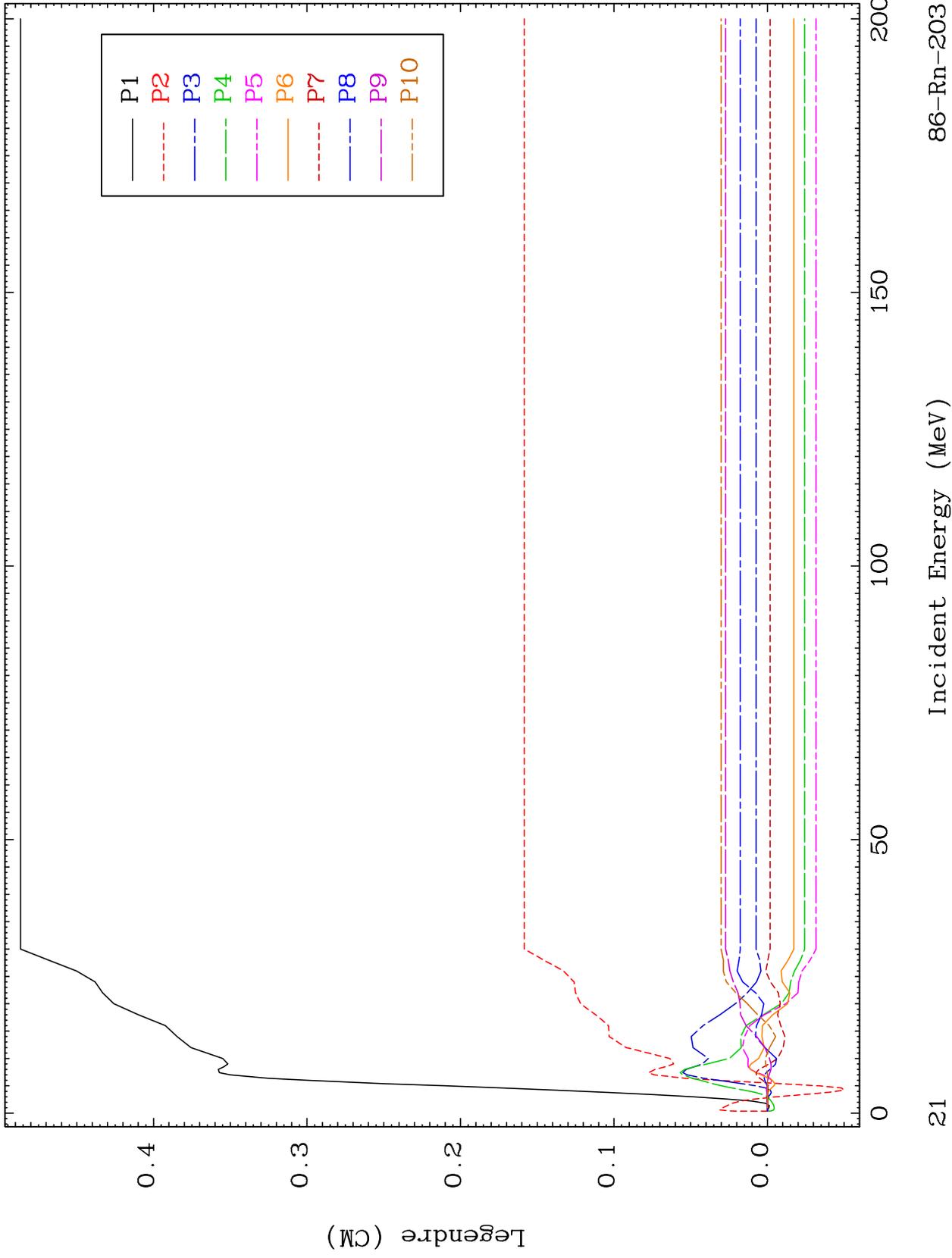
86-Rn-203



MAT 8601

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

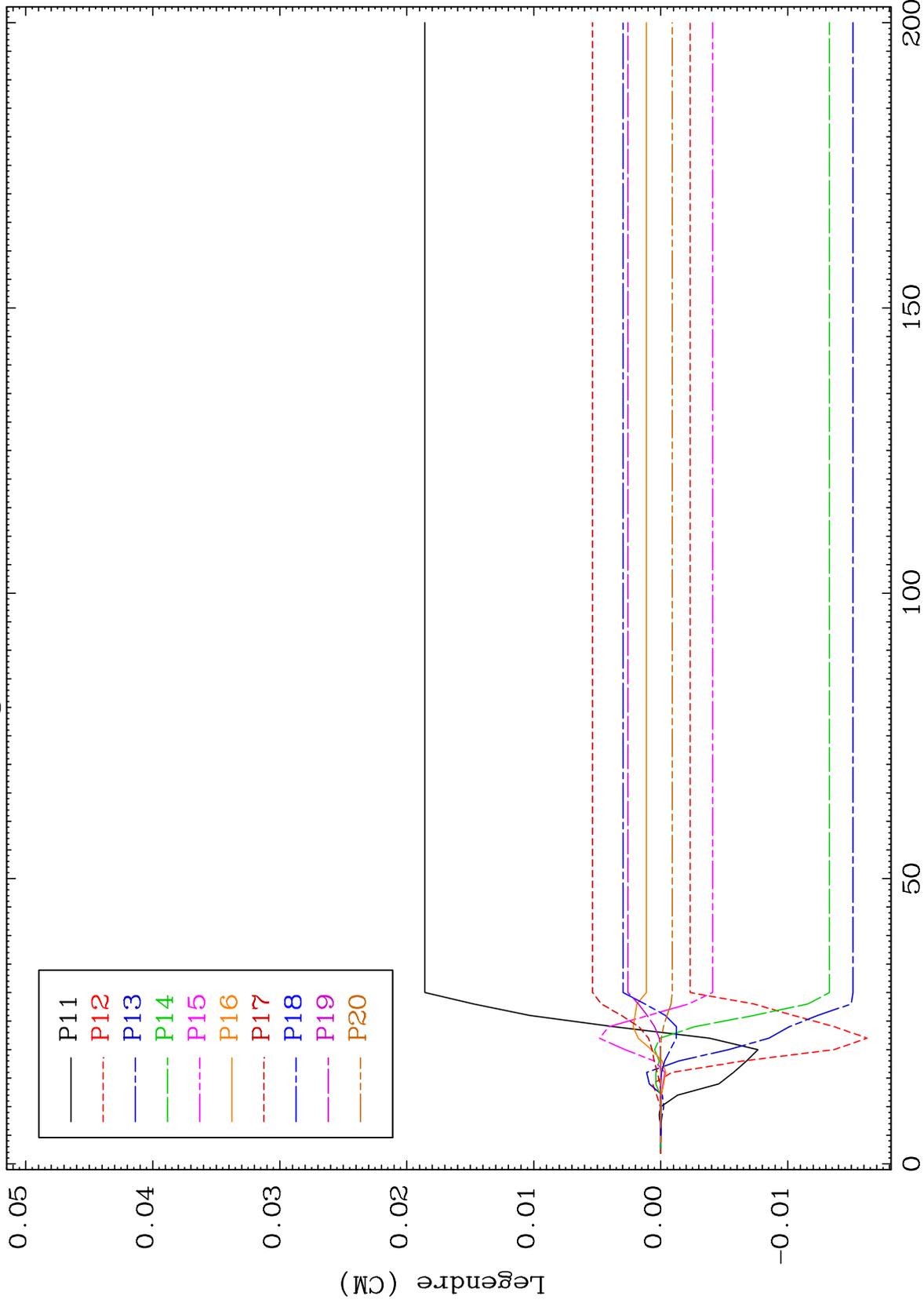
86-Rn-203



MAT 8601

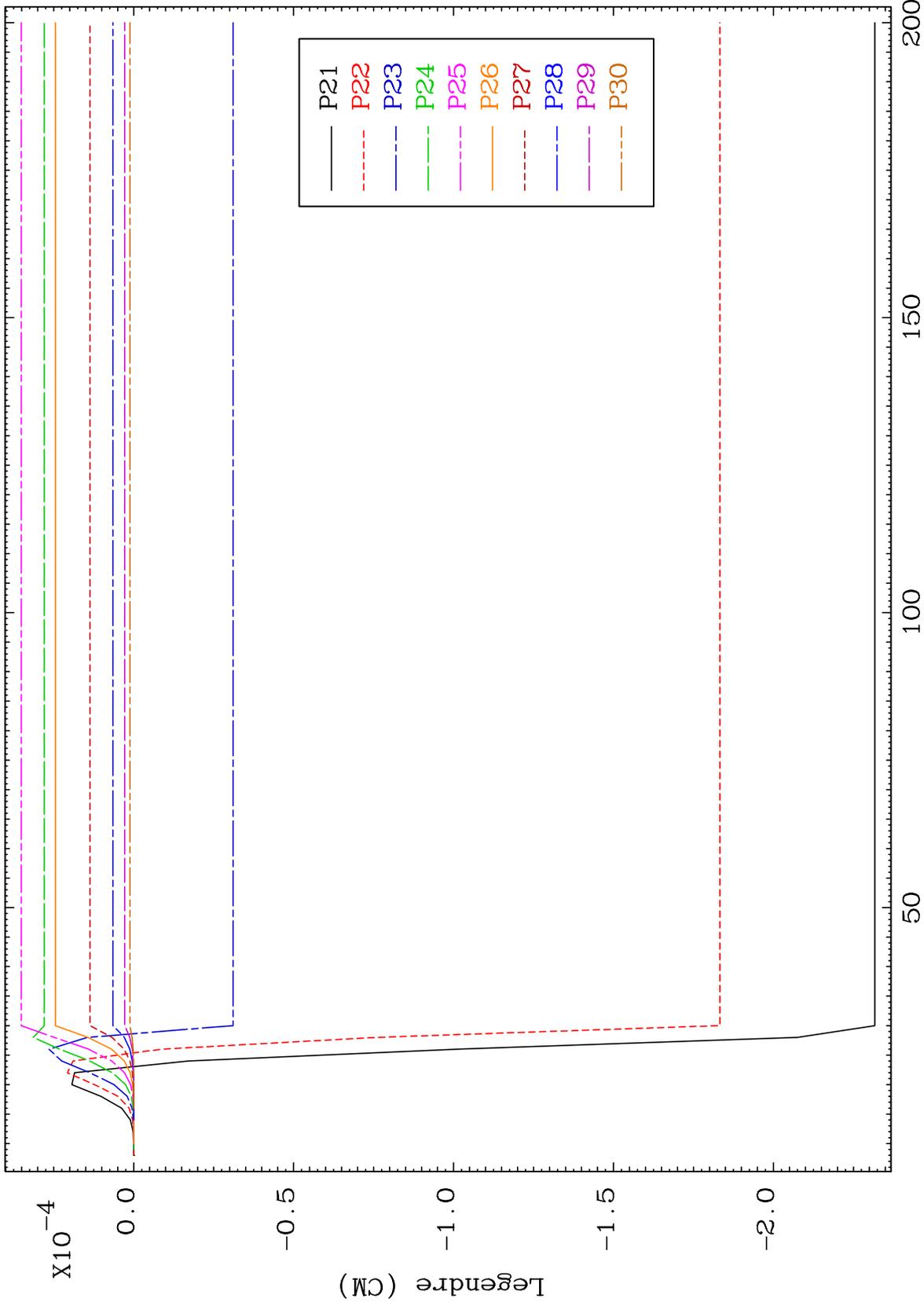
MT= 51 (n,n') Level
Legendre Coefficients

86-Rn-203



22

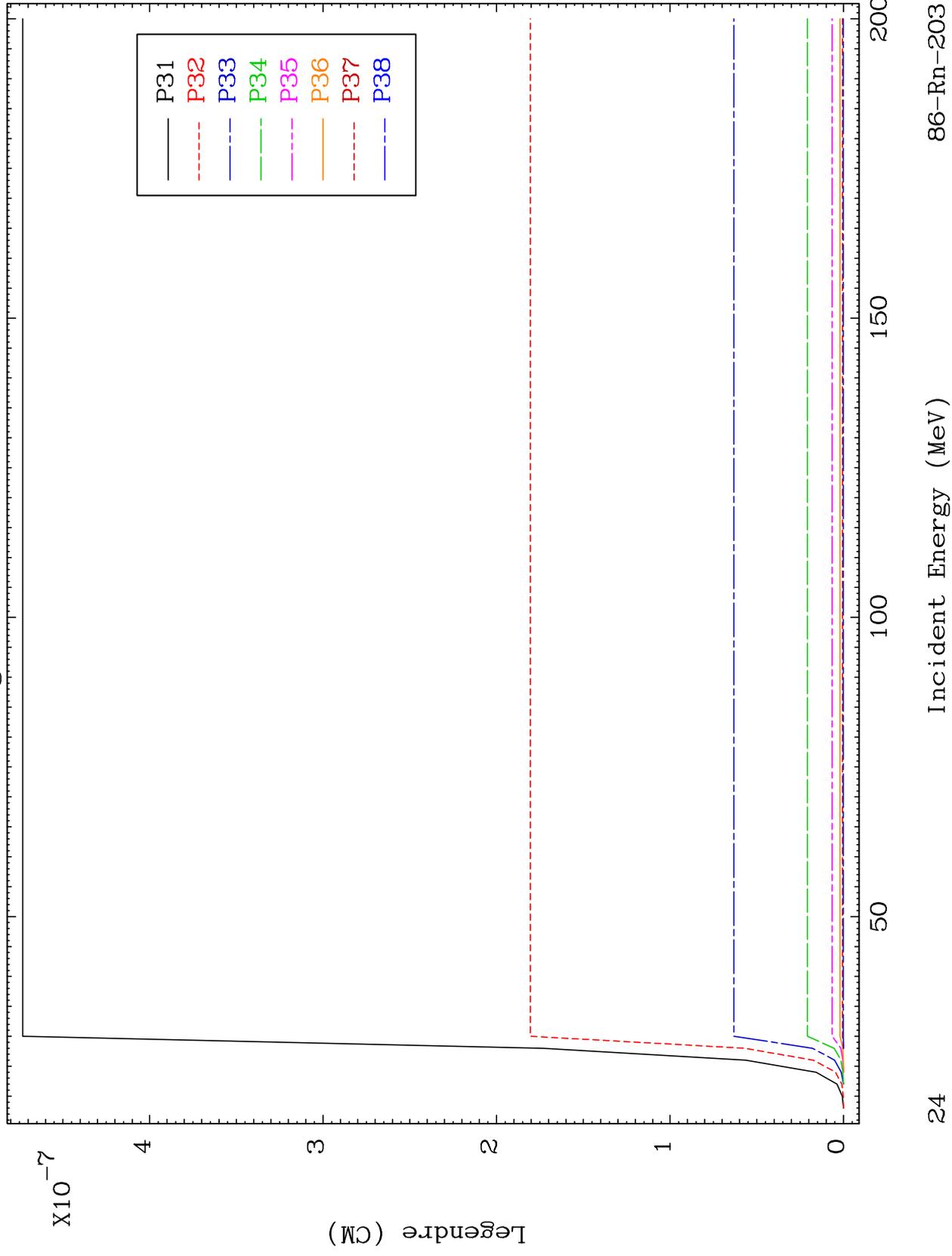
86-Rn-203



MAT 8601

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

86-Rn-203



24

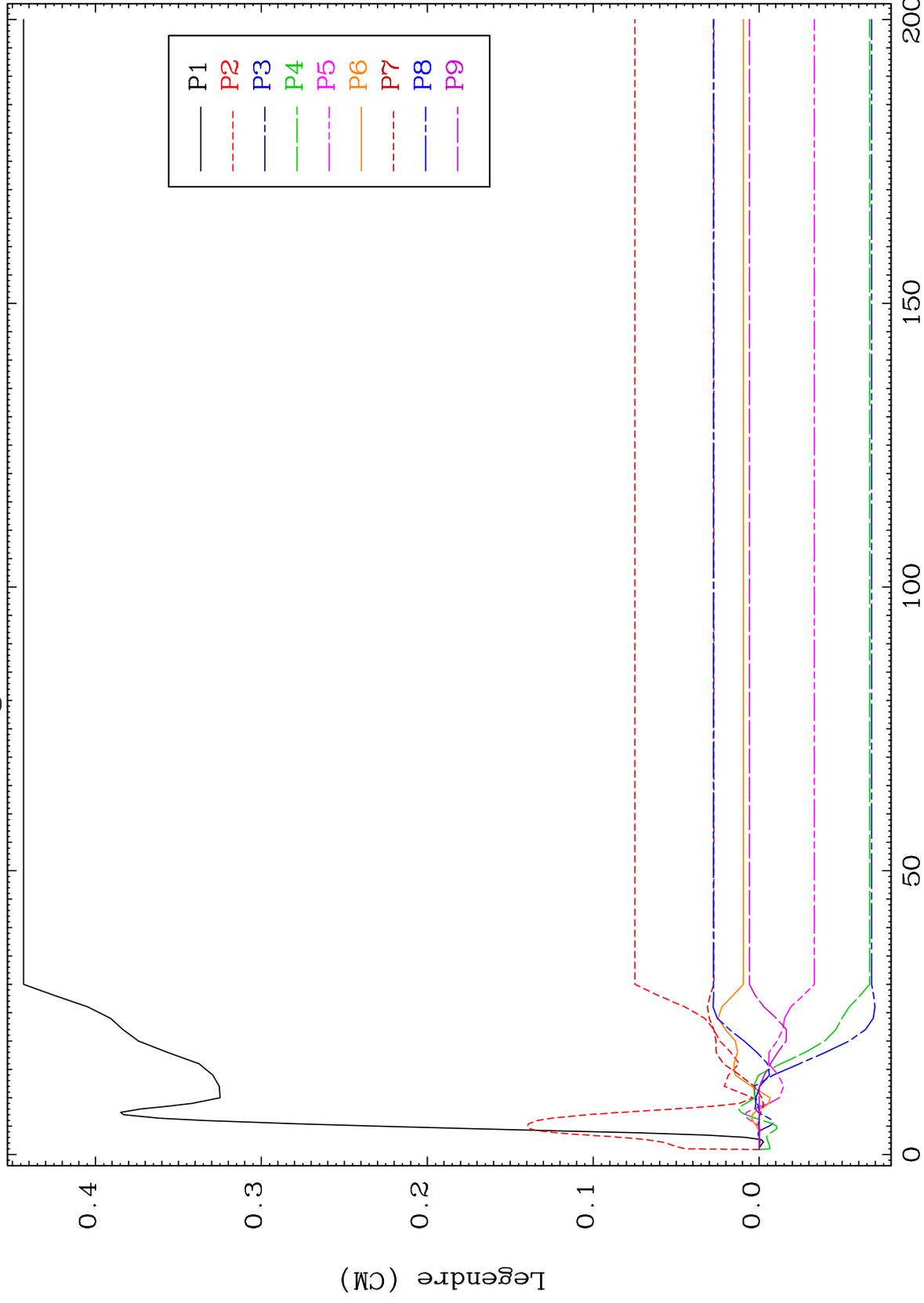
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



86-Rn-203

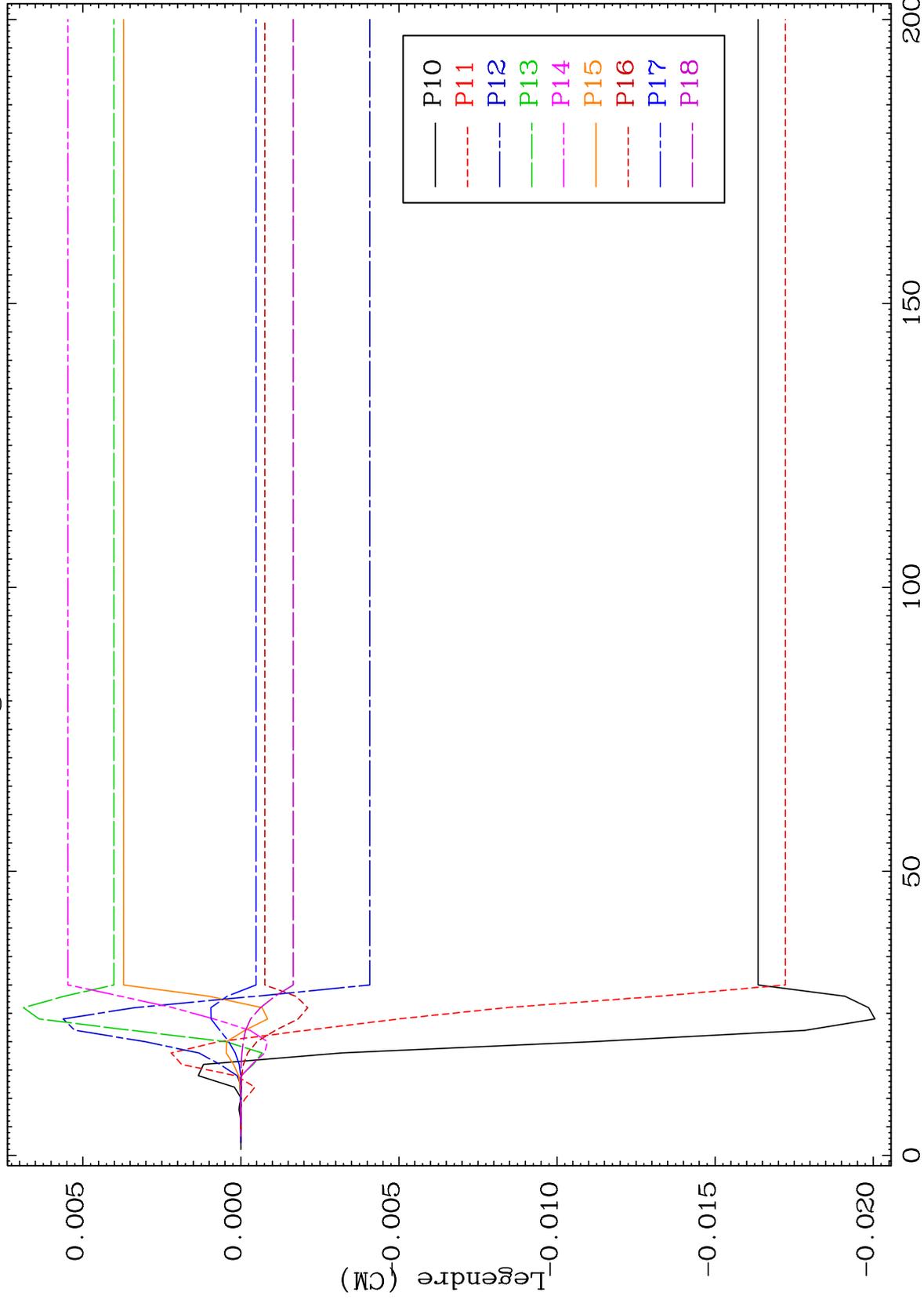
Incident Energy (MeV)

25

MAT 8601

86-Rn-203

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



26

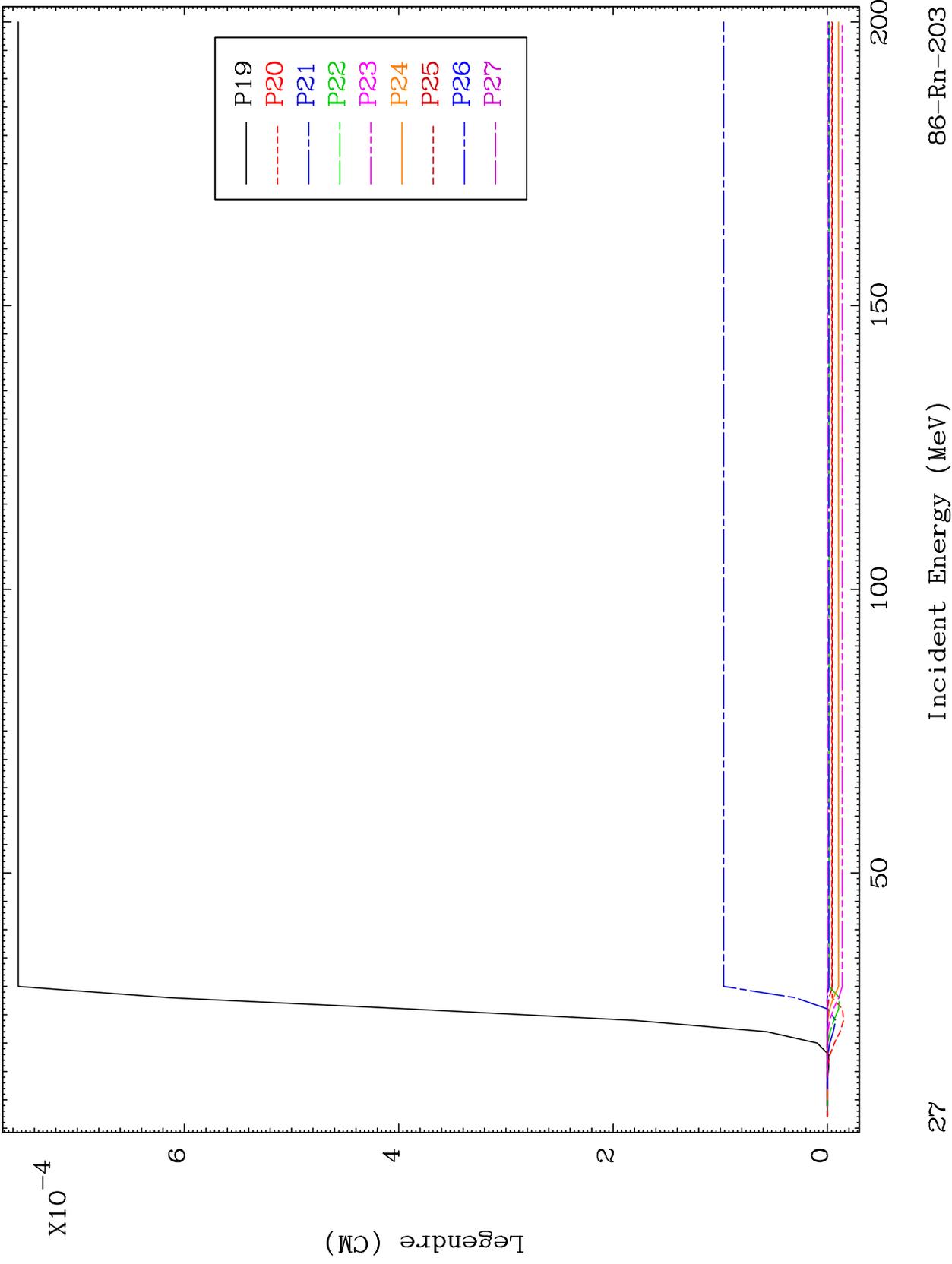
Incident Energy (MeV)

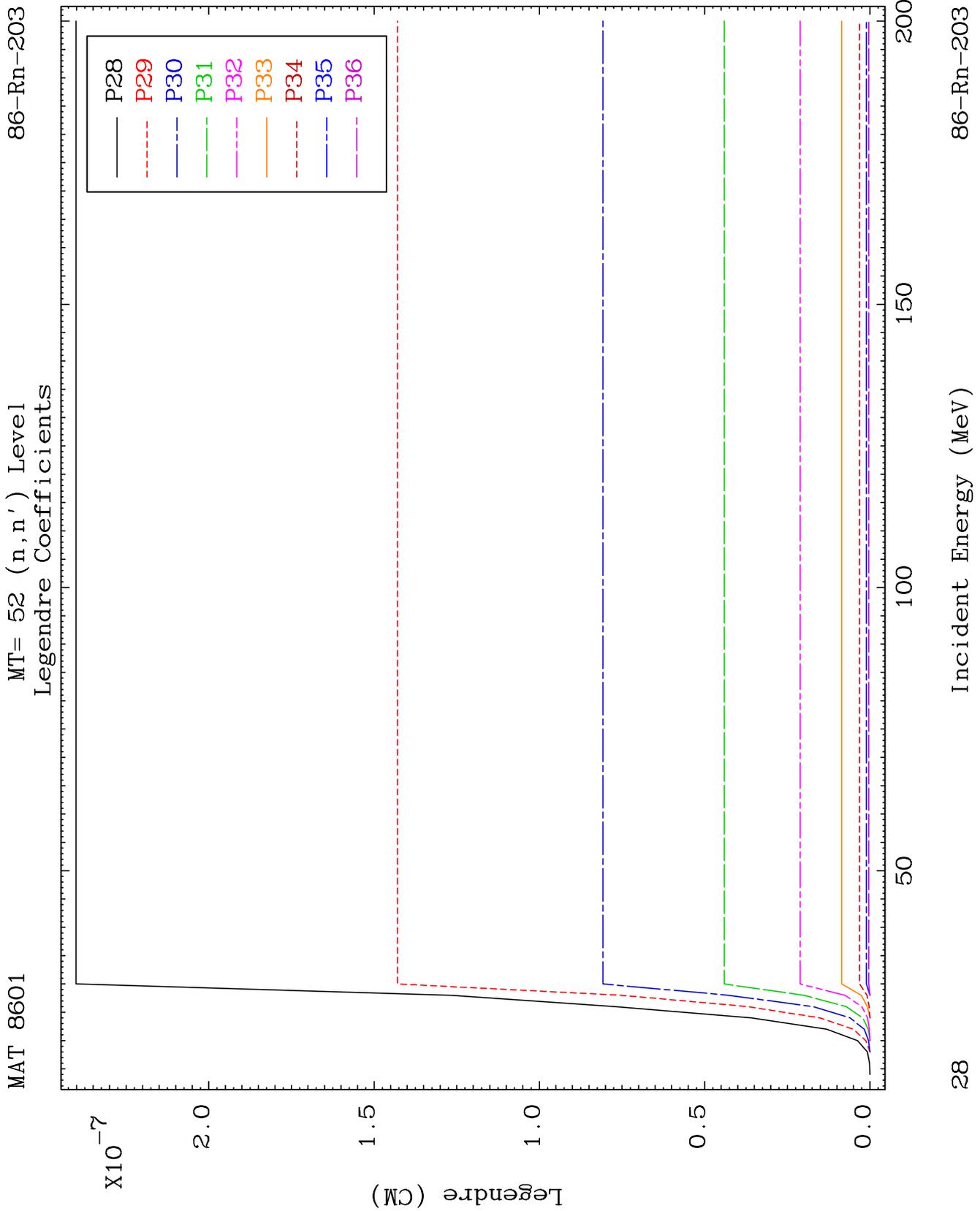
86-Rn-203

MAT 8601

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

86-Rn-203

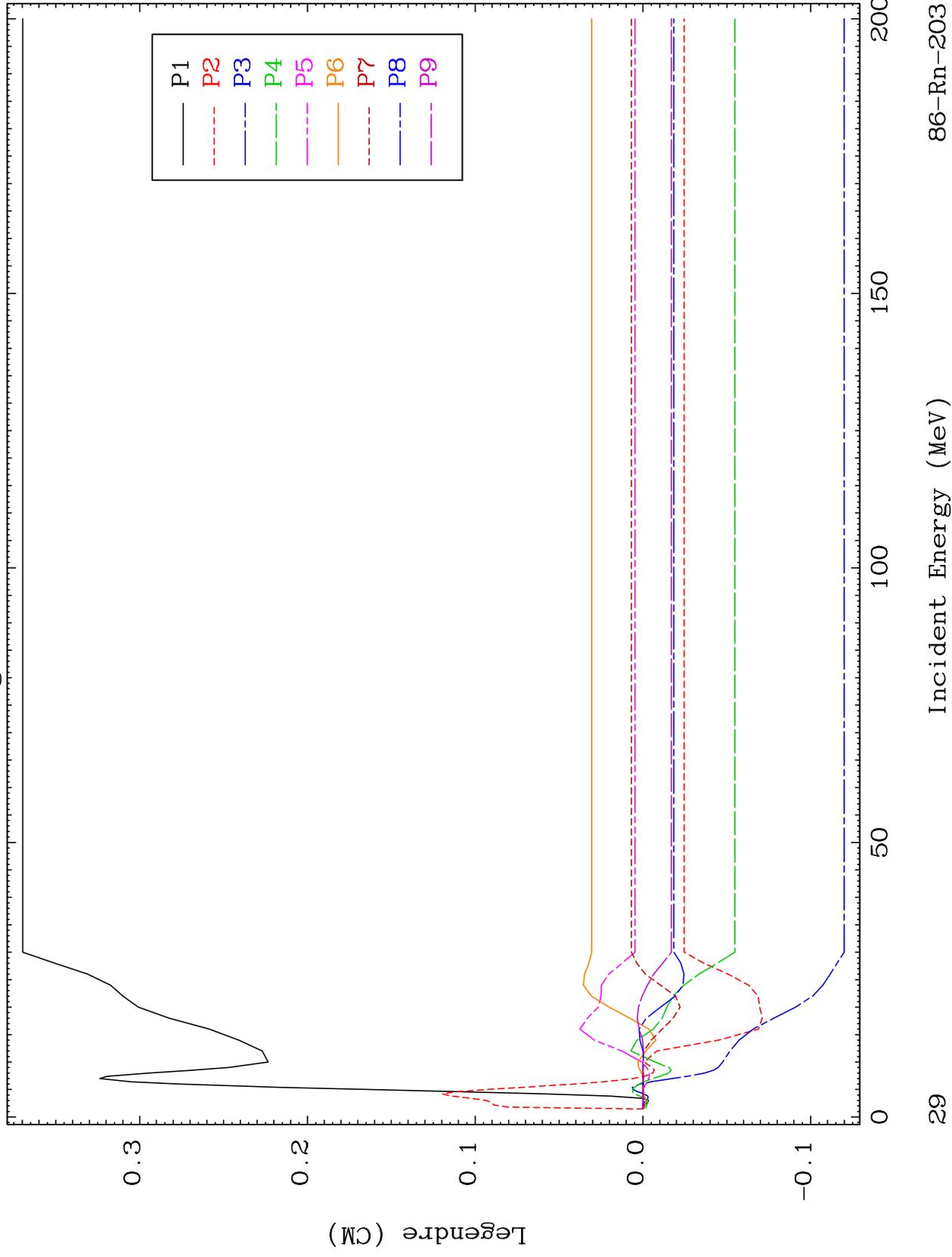




MAT 8601

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

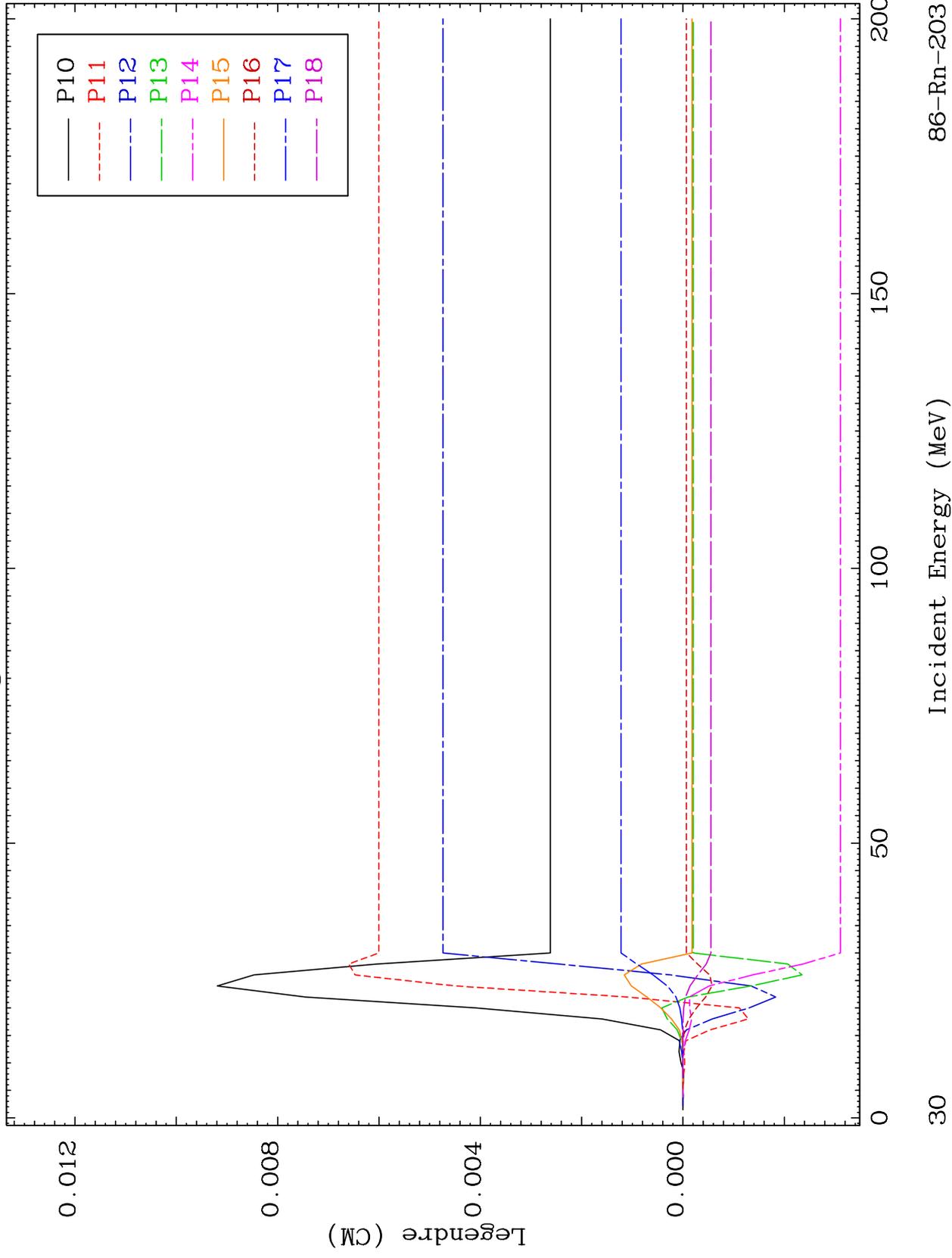
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MAT 8601

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

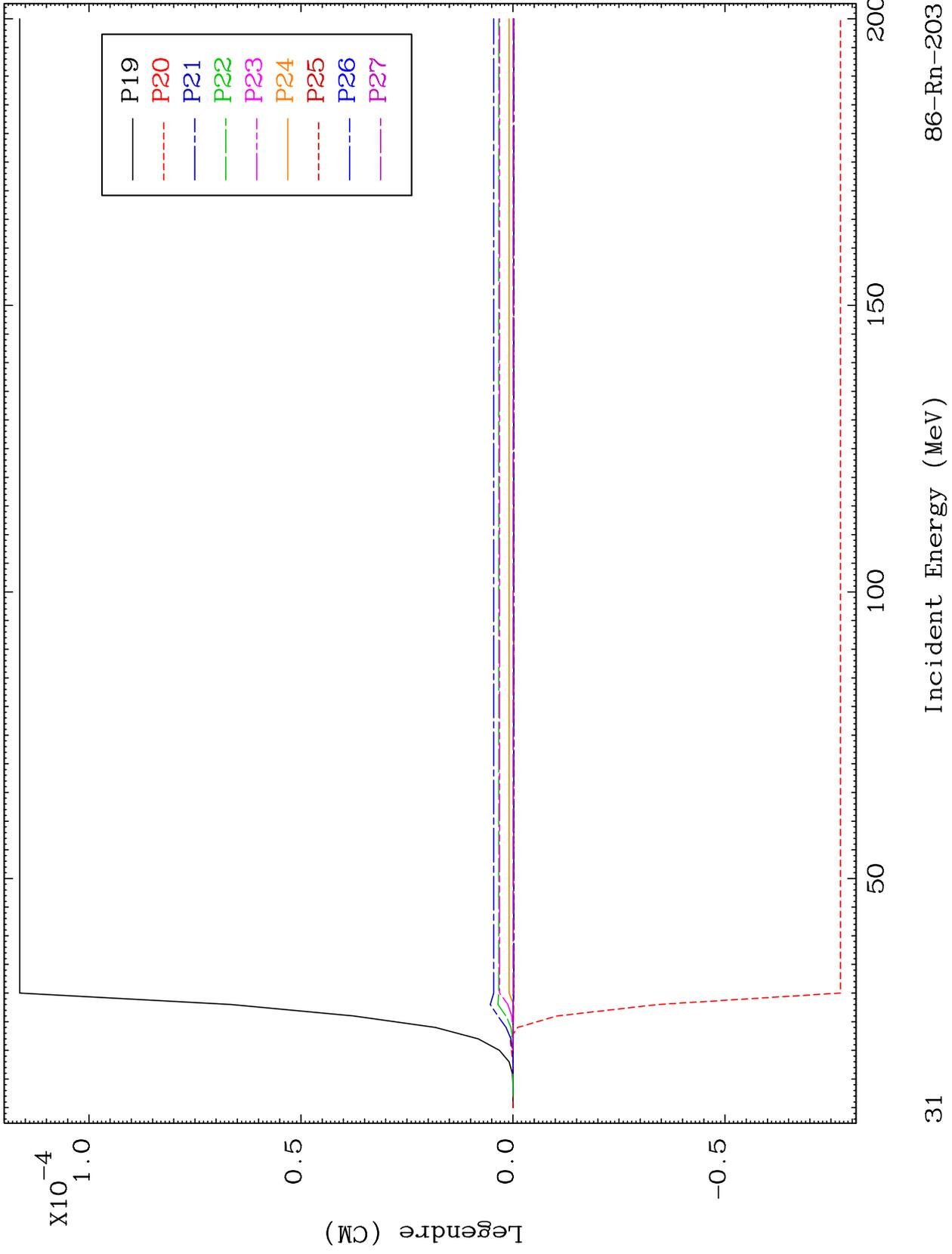
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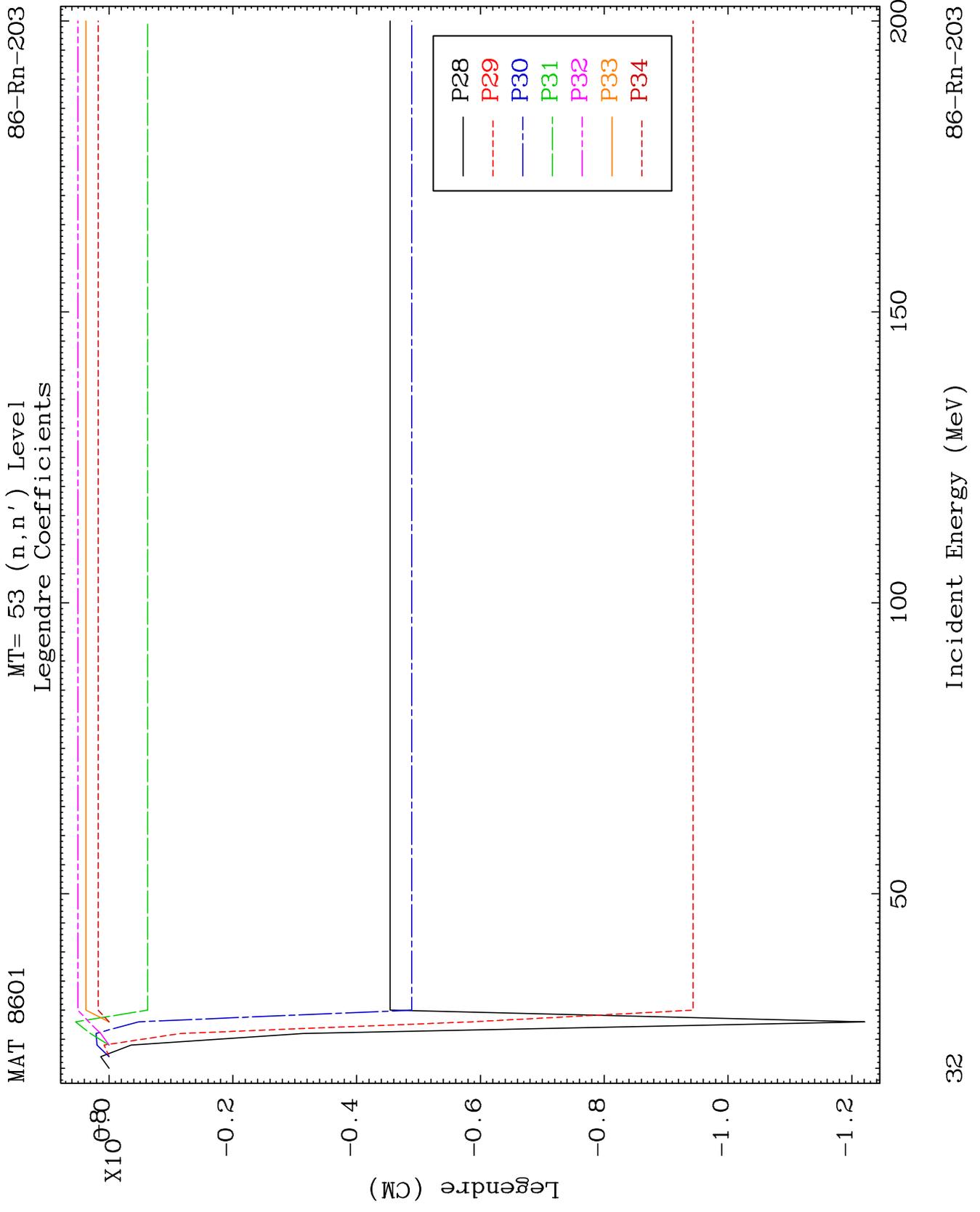


86-Rn-203

Incident Energy (MeV)

30

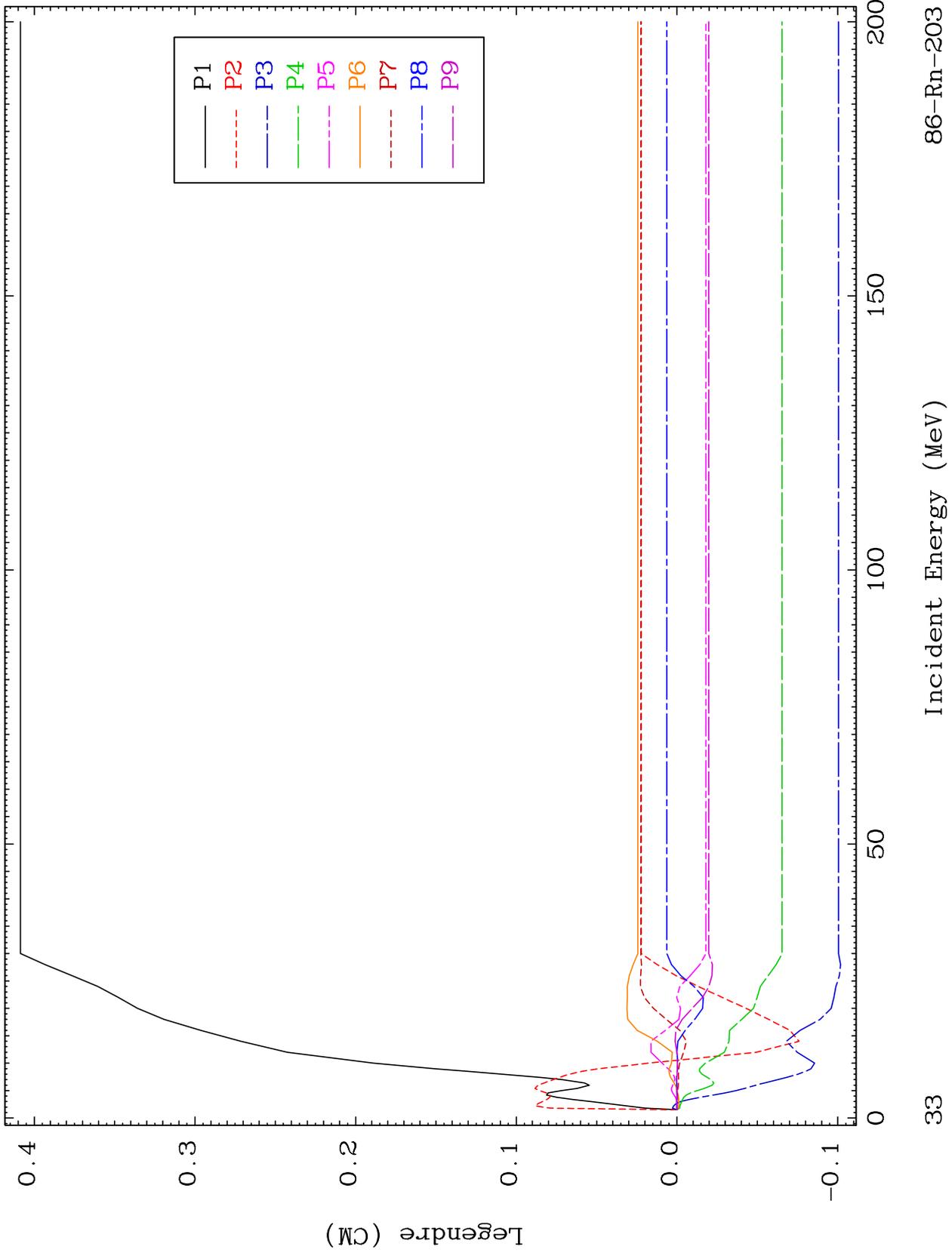




MAT 8601

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

86-Rn-203



33

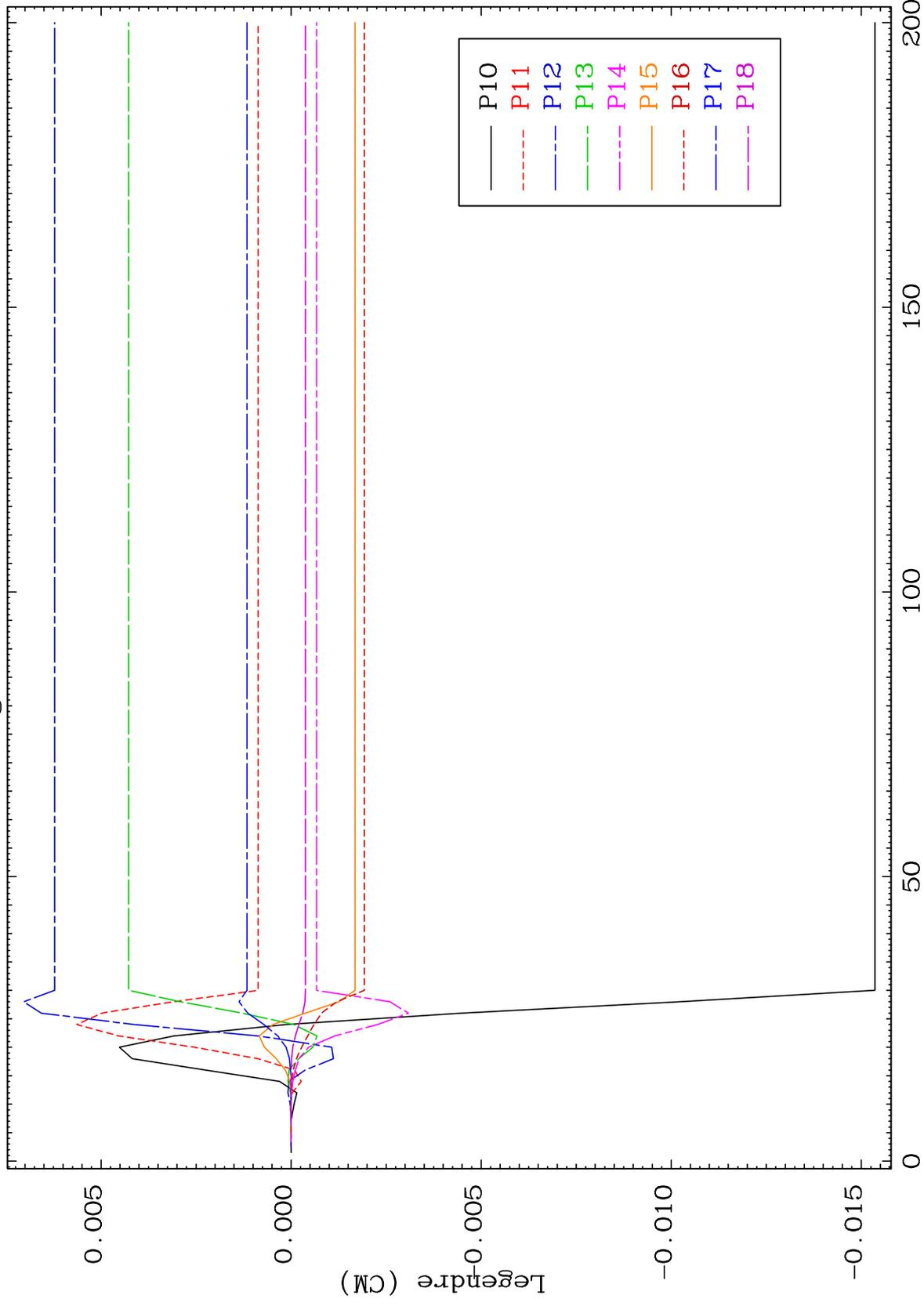
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



34

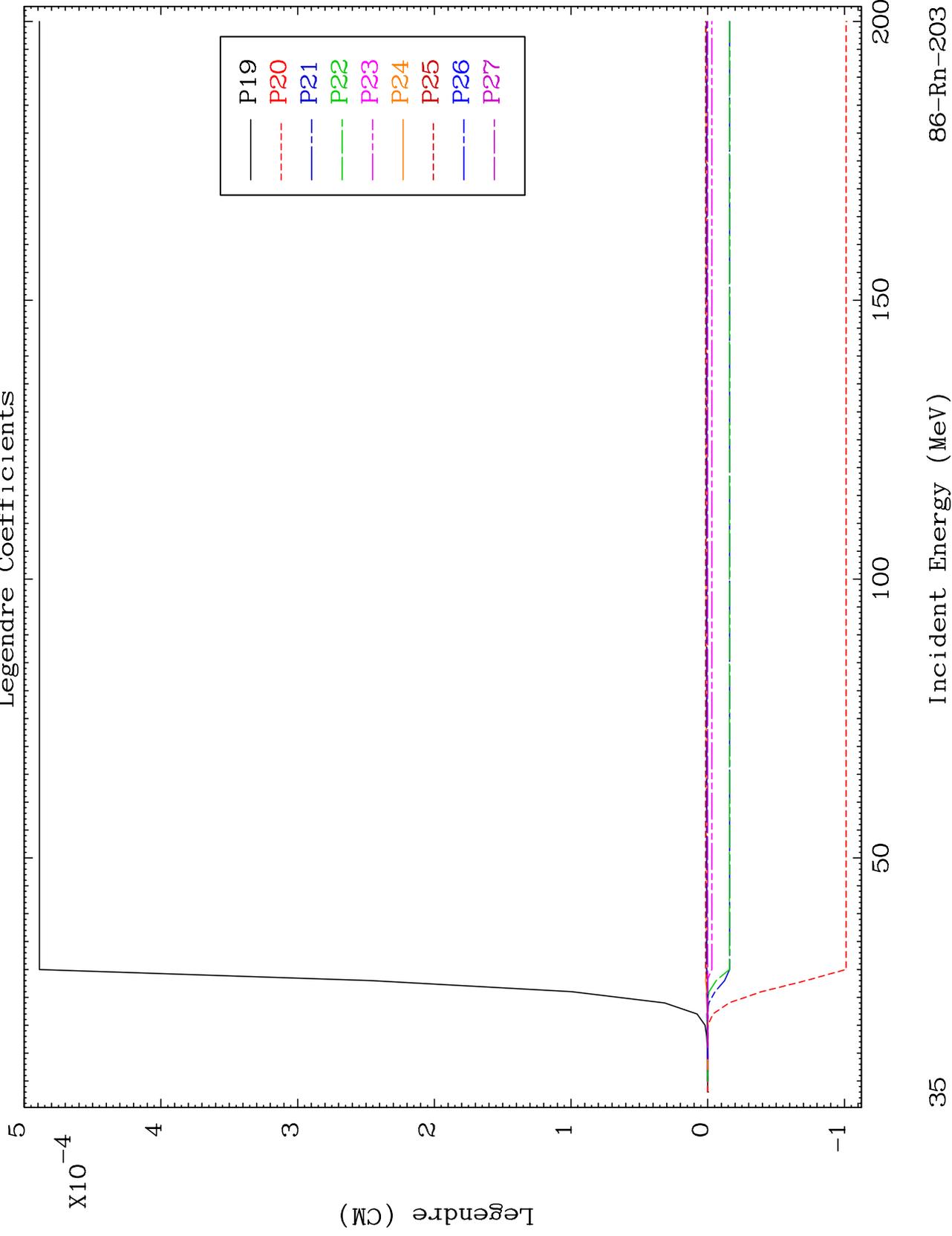
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



35

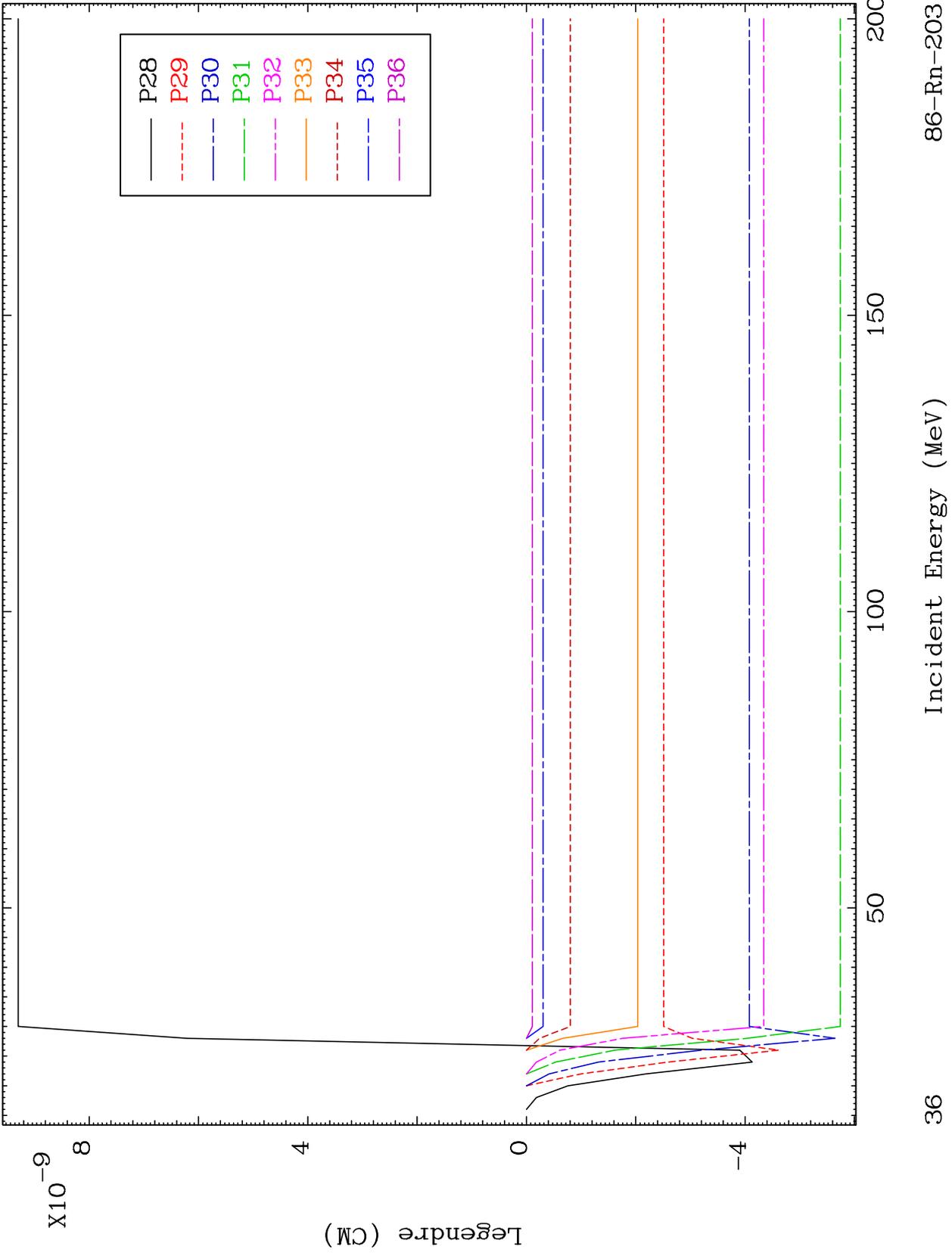
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



36

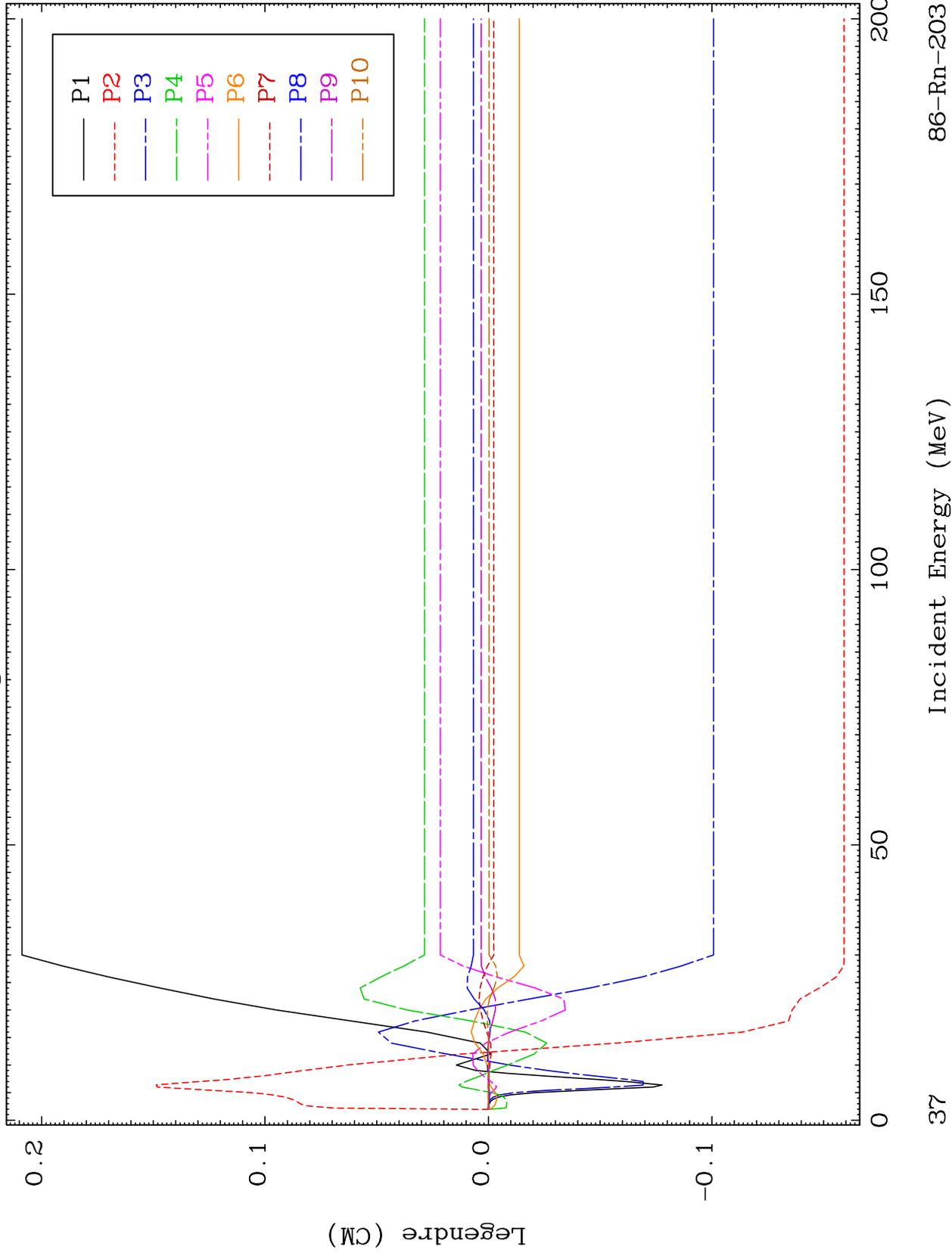
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



86-Rn-203

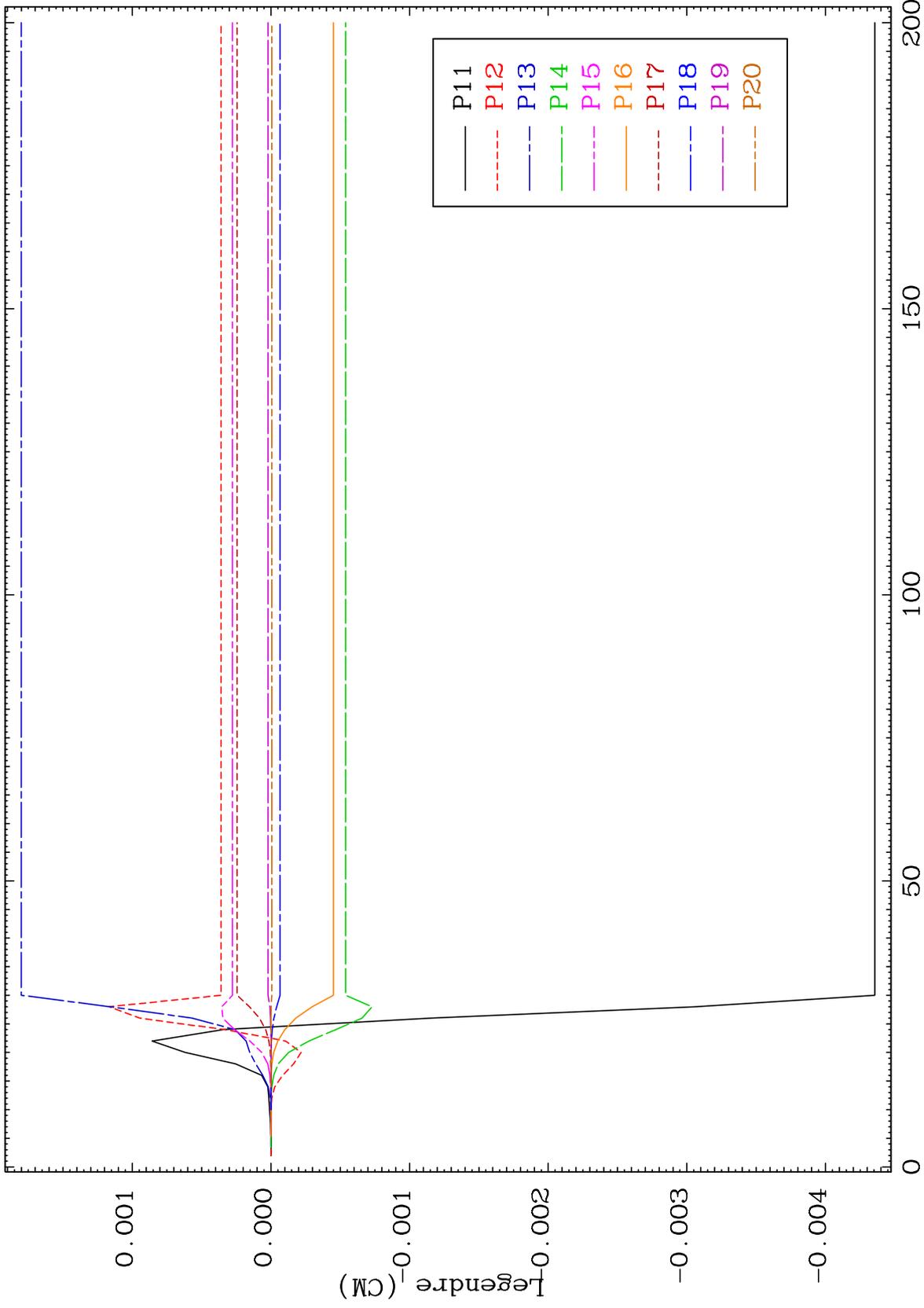
Incident Energy (MeV)

37

MAT 8601

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

86-Rn-203



38

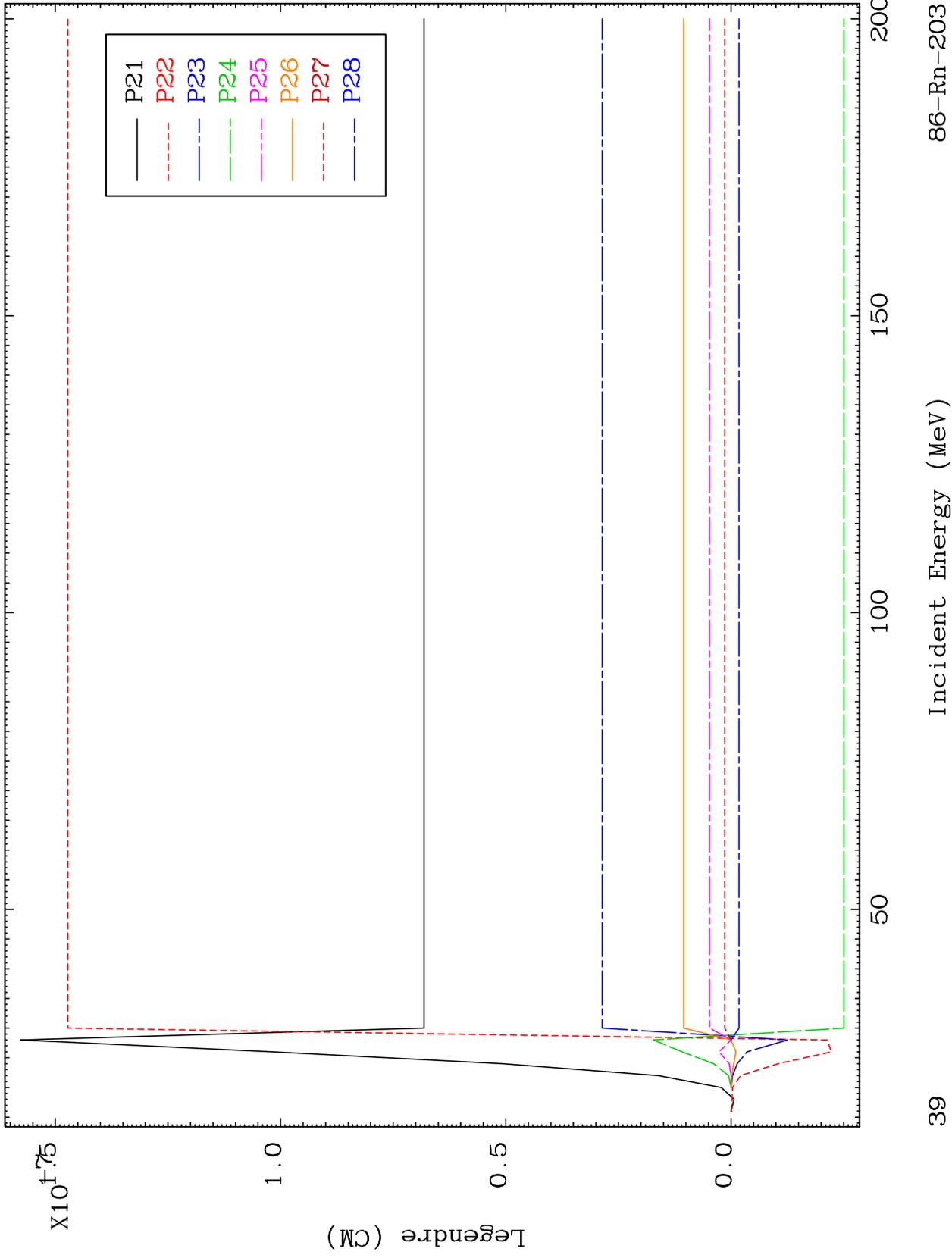
Incident Energy (MeV)

86-Rn-203

MAT 8601

86-Rn-203

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



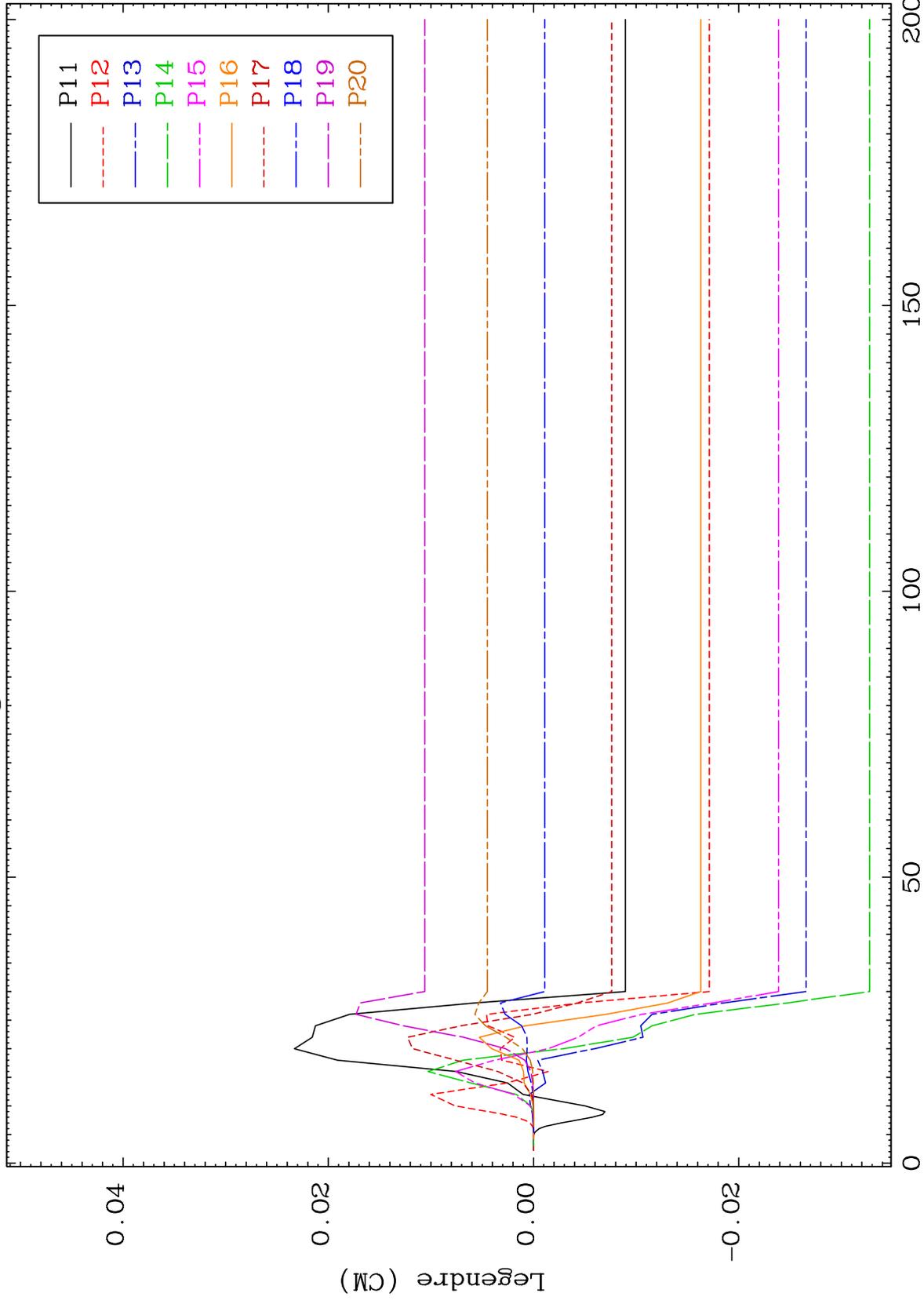
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86-Rn-203

MAT 8601

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

86-Rn-203



41

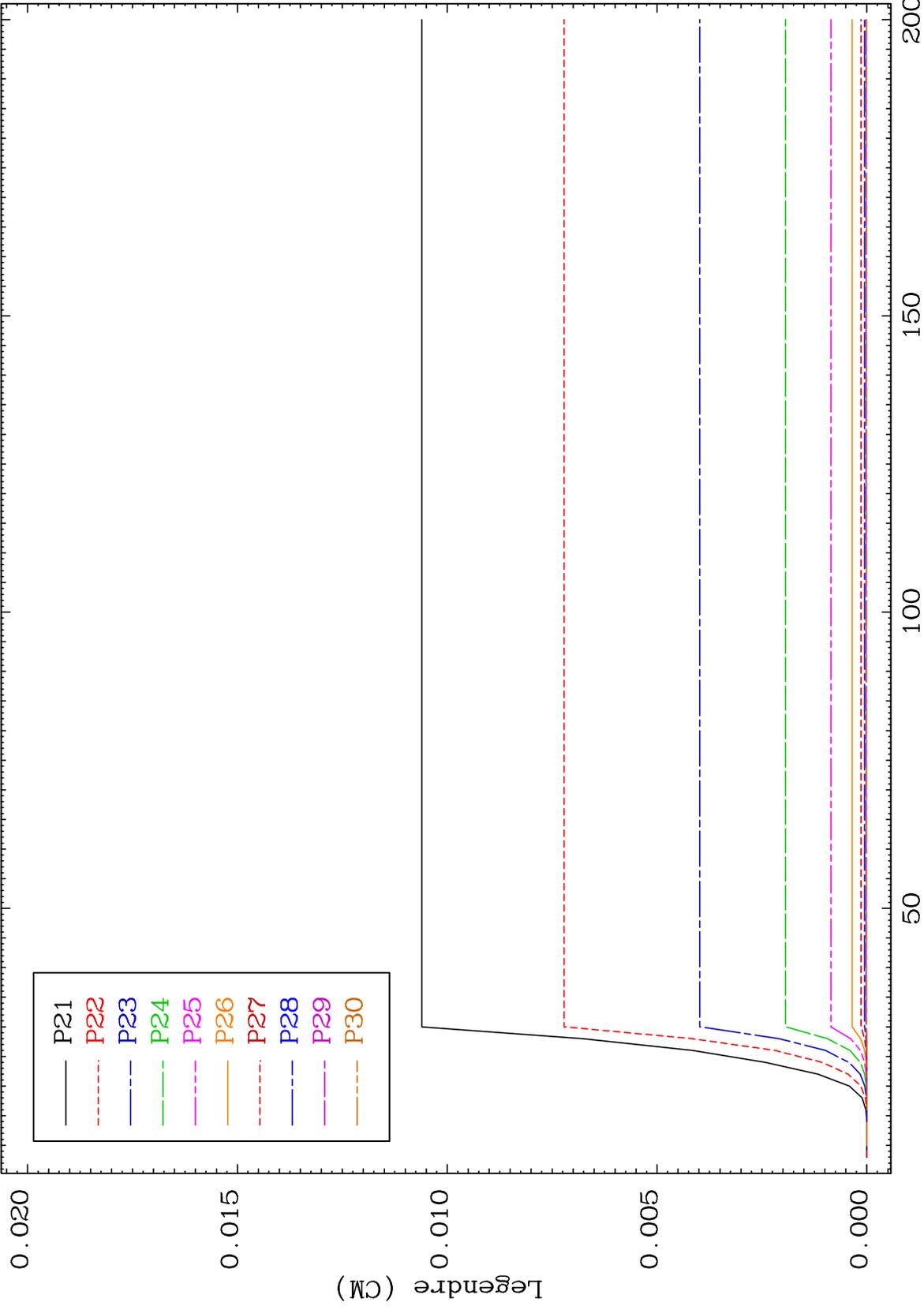
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



42

Incident Energy (MeV)

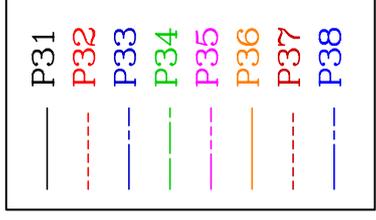
86-Rn-203

MAT 8601

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

86-Rn-203

$\times 10^{-6}$
2.0
1.5
1.0
0.5
0.0



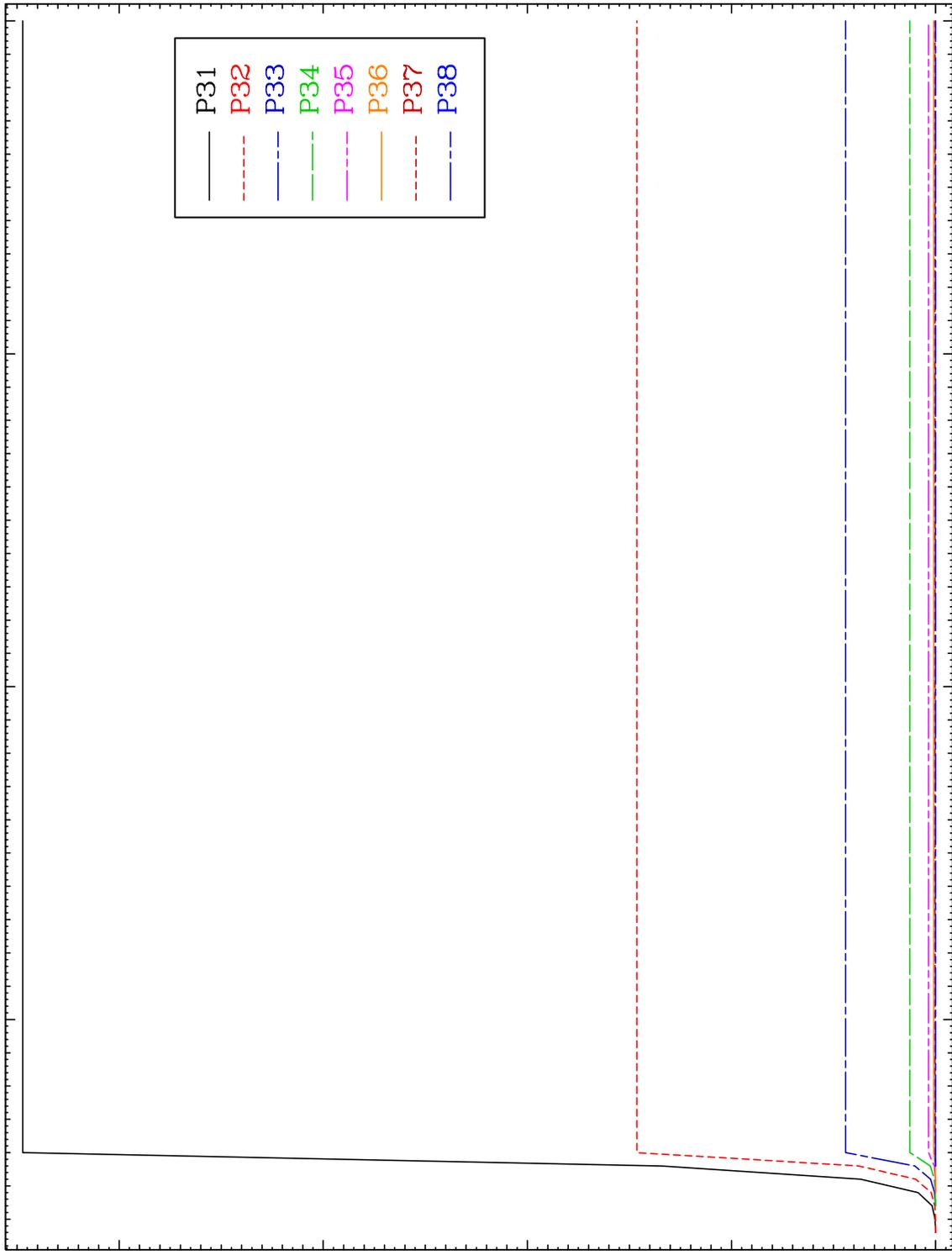
Legendre (CM)

50 100 150 200

43

Incident Energy (MeV)

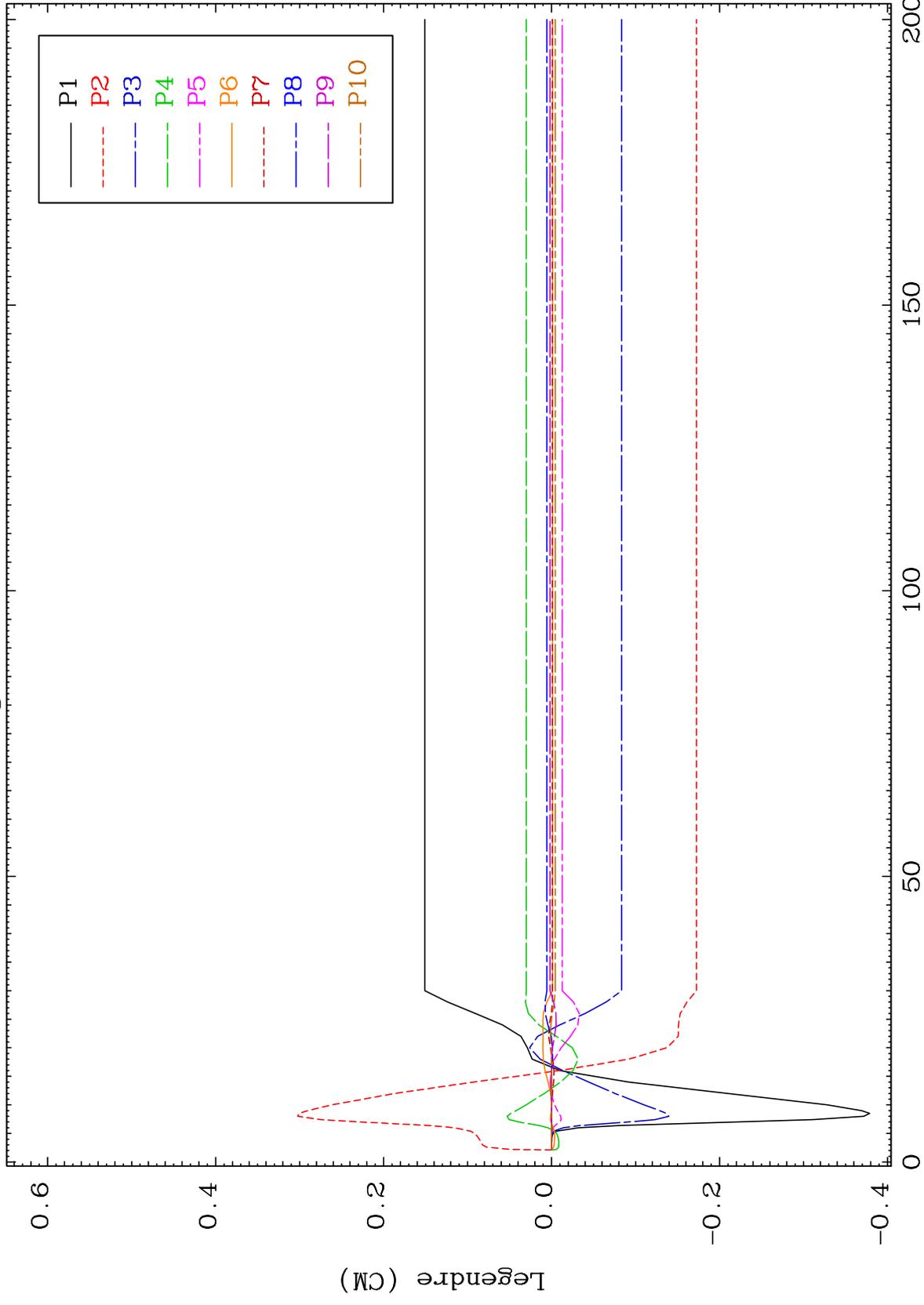
86-Rn-203



MAT 8601

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

86-Rn-203



44

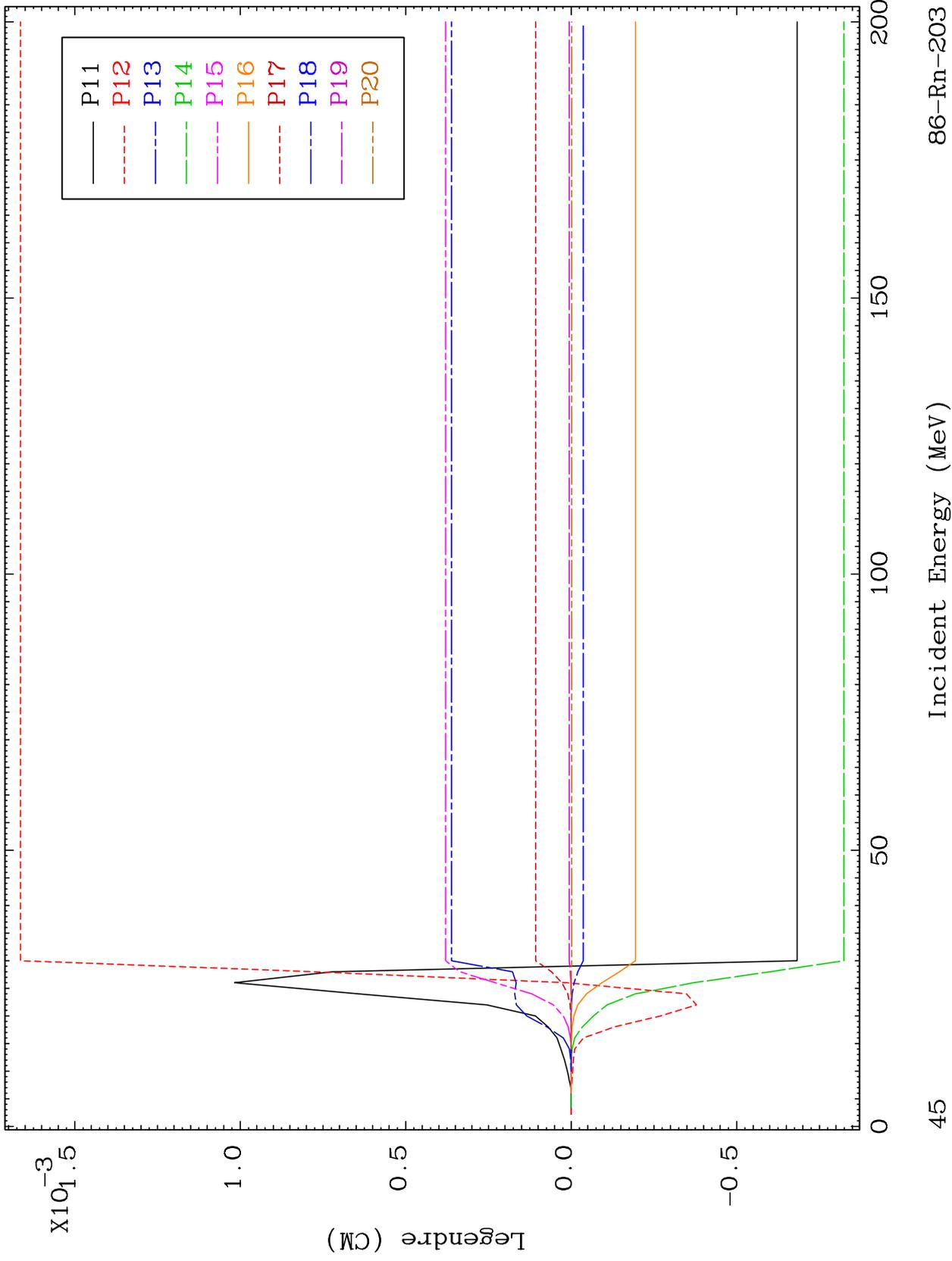
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



86-Rn-203

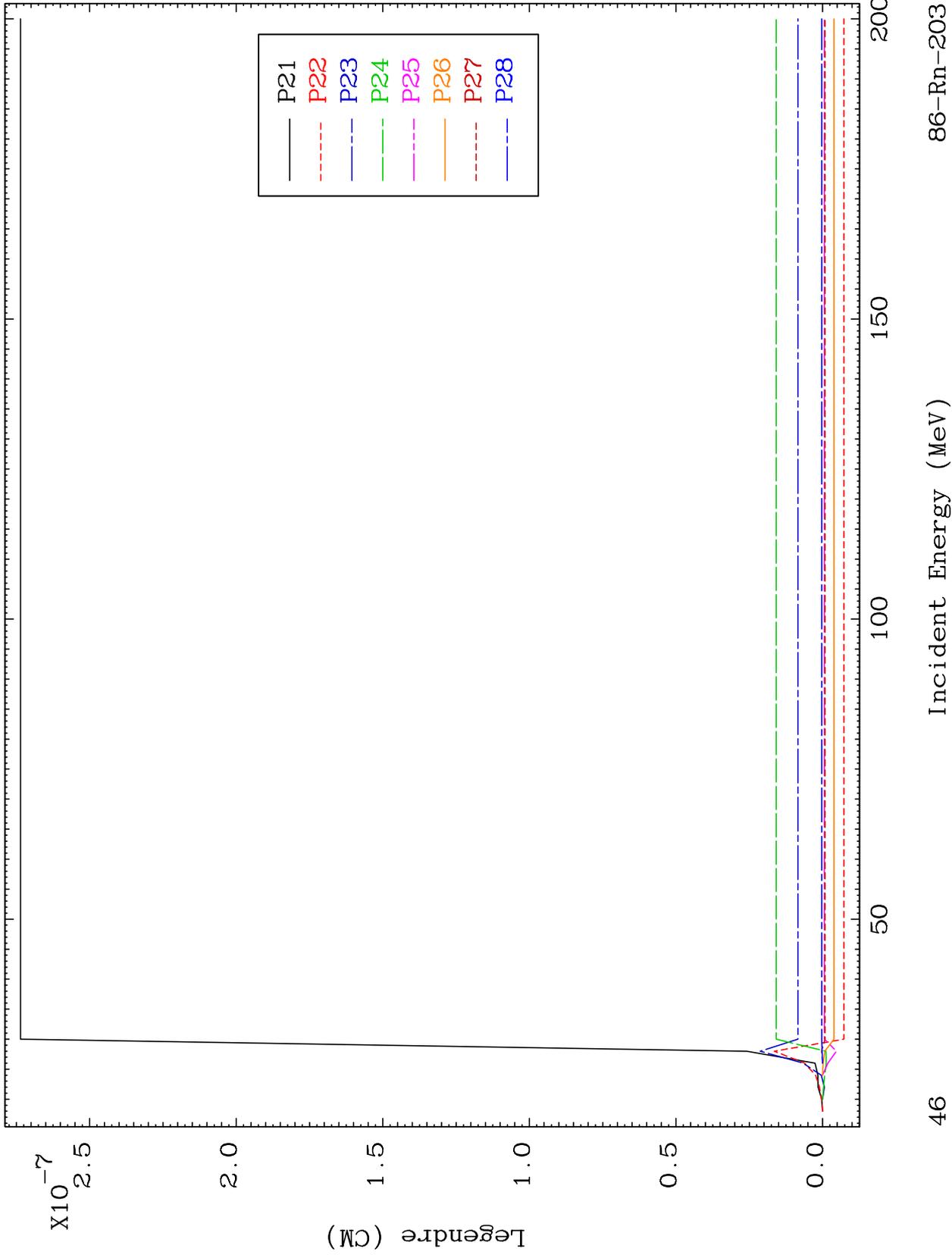
Incident Energy (MeV)

45

MAT 8601

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

86-Rn-203



46

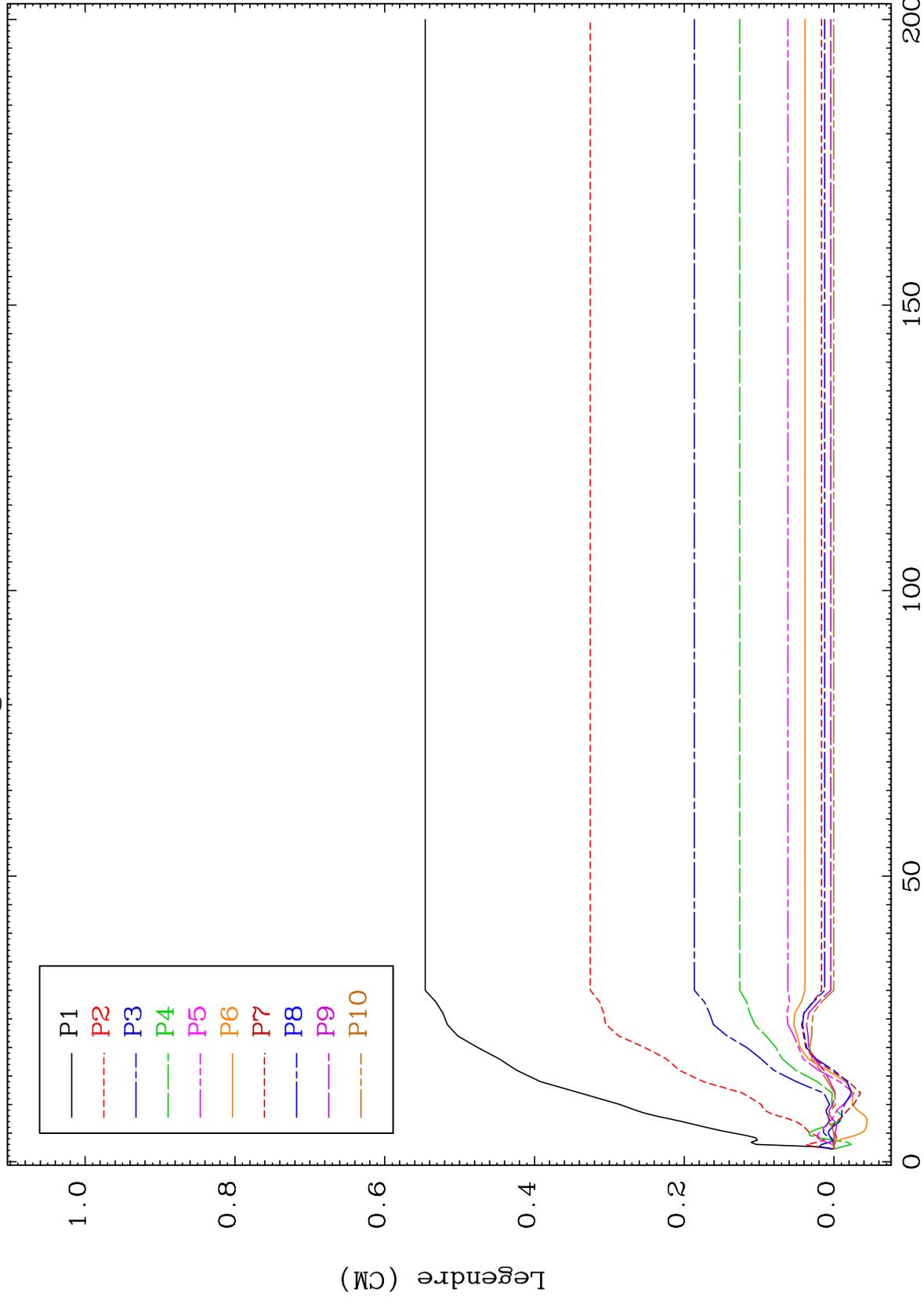
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



47

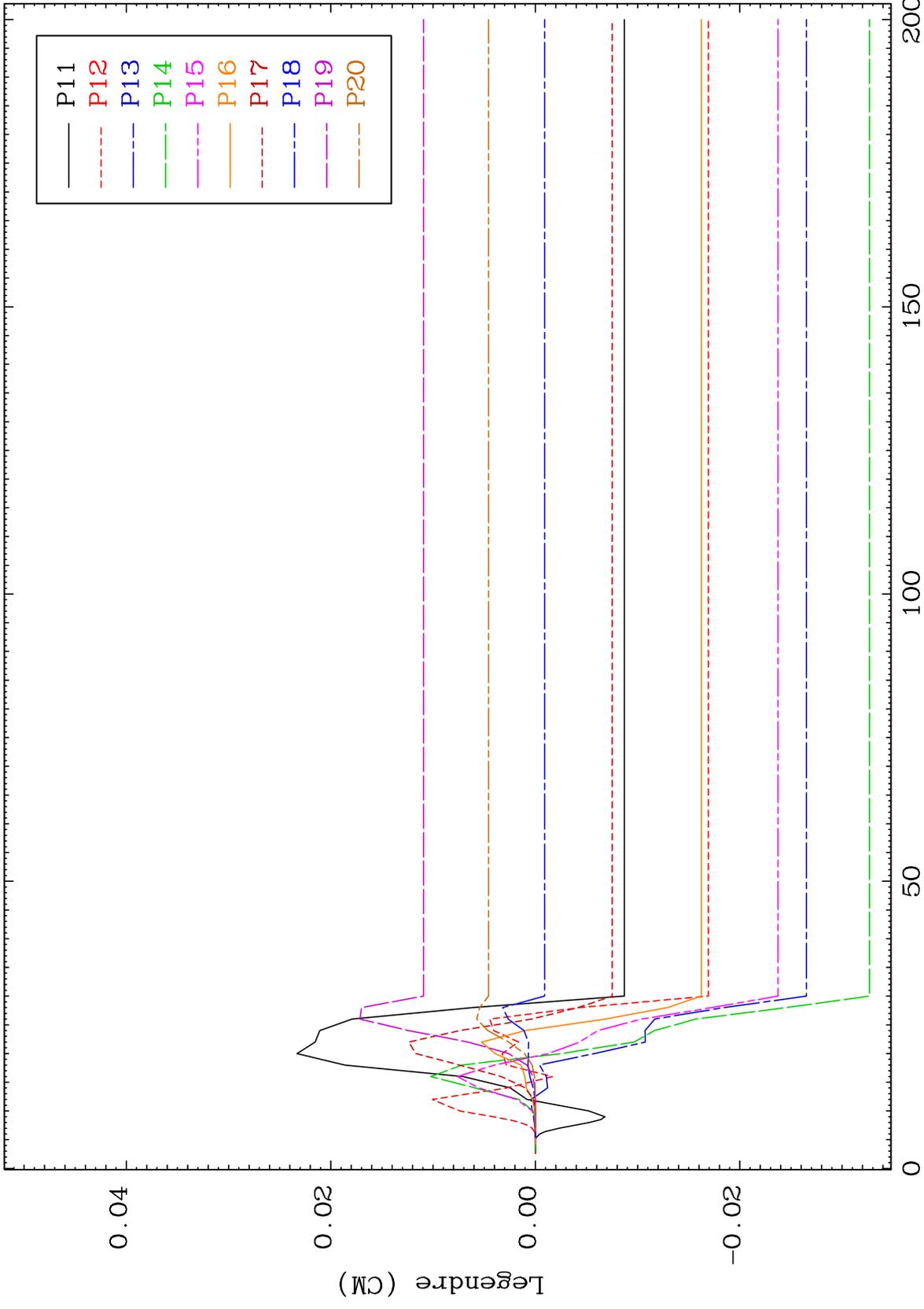
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



48

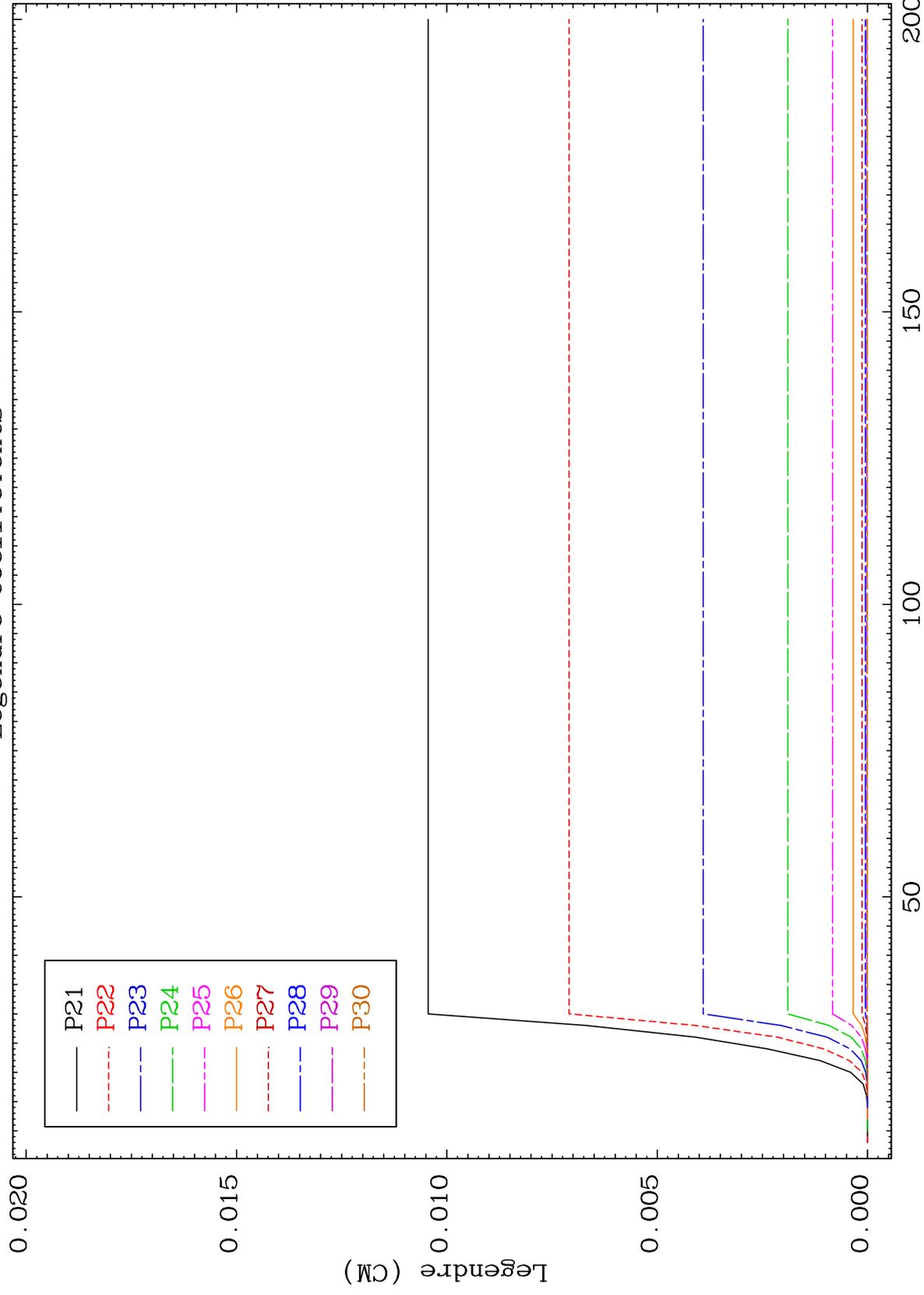
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



49

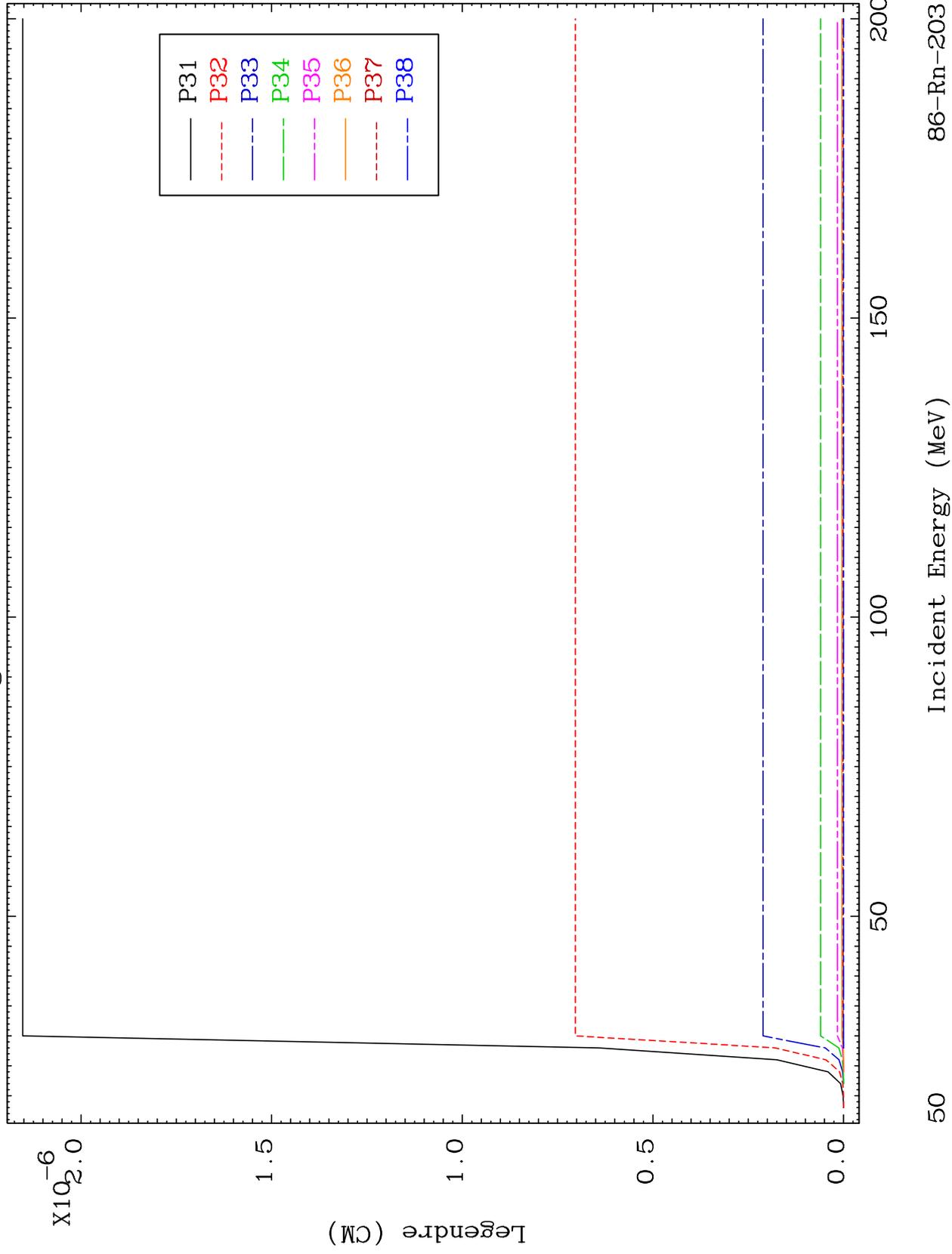
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

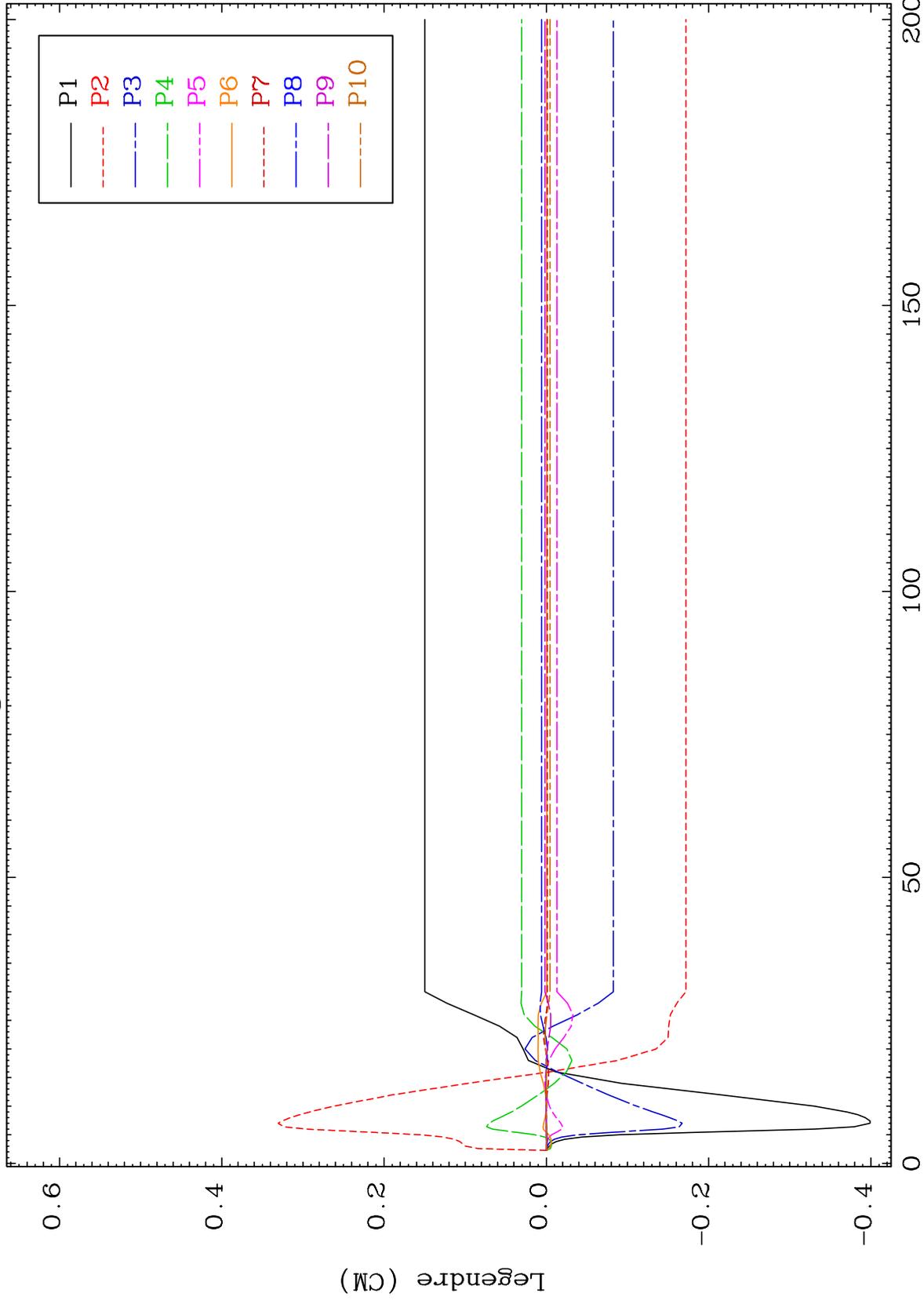
86-Rn-203



MAT 8601

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

86-Rn-203



51

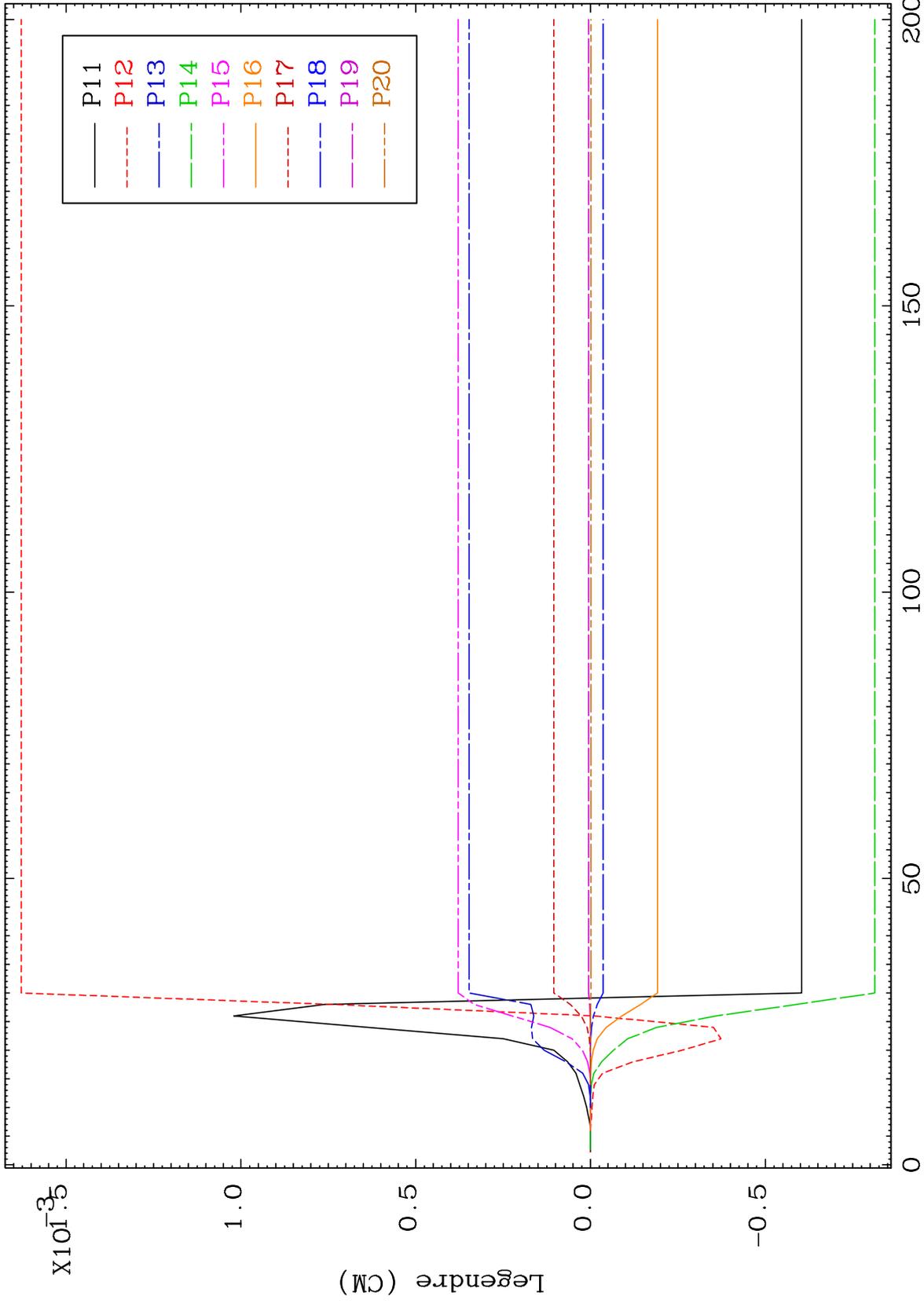
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



52

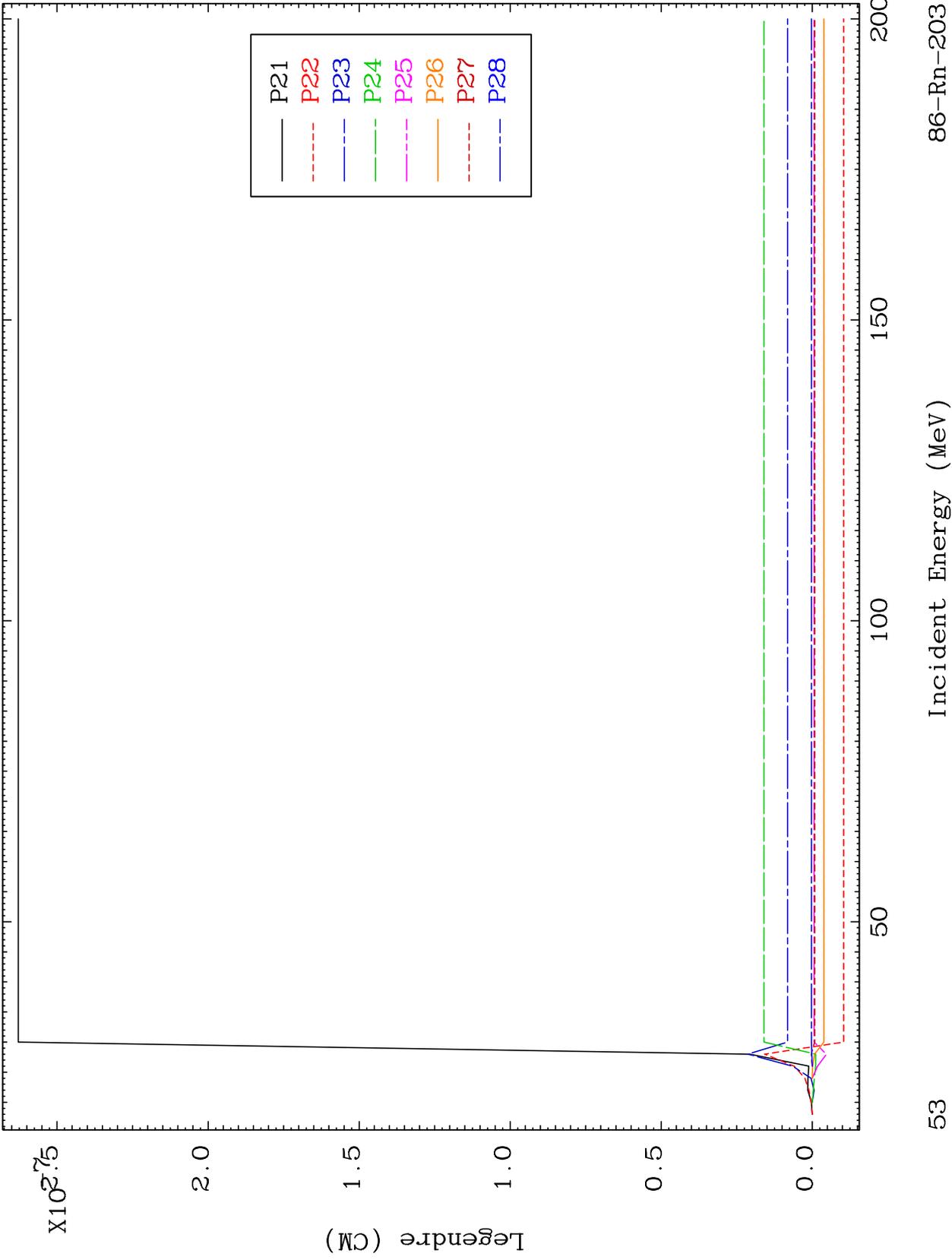
86-Rn-203

86-Rn-203

MAT 8601

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

86-Rn-203



53

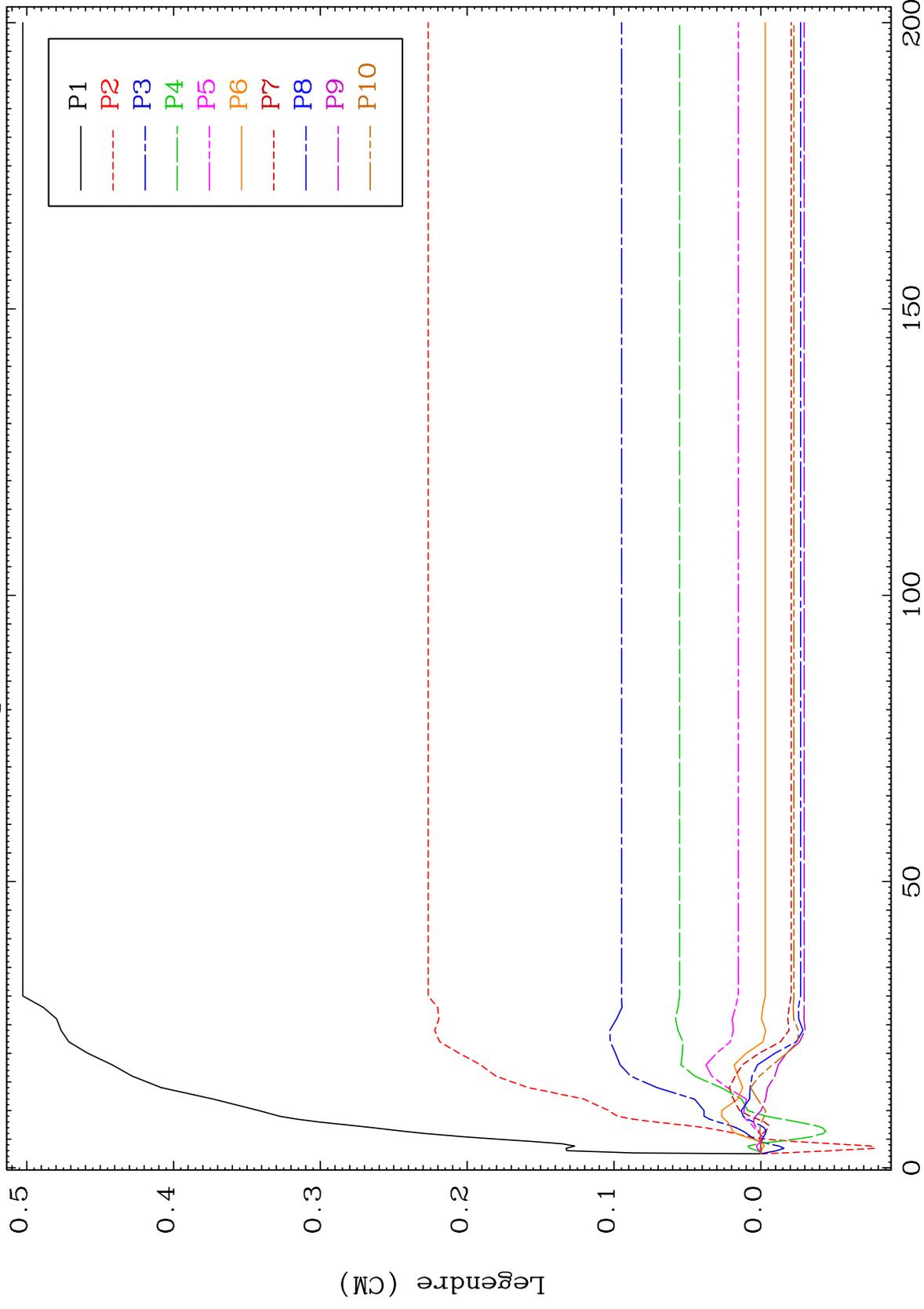
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

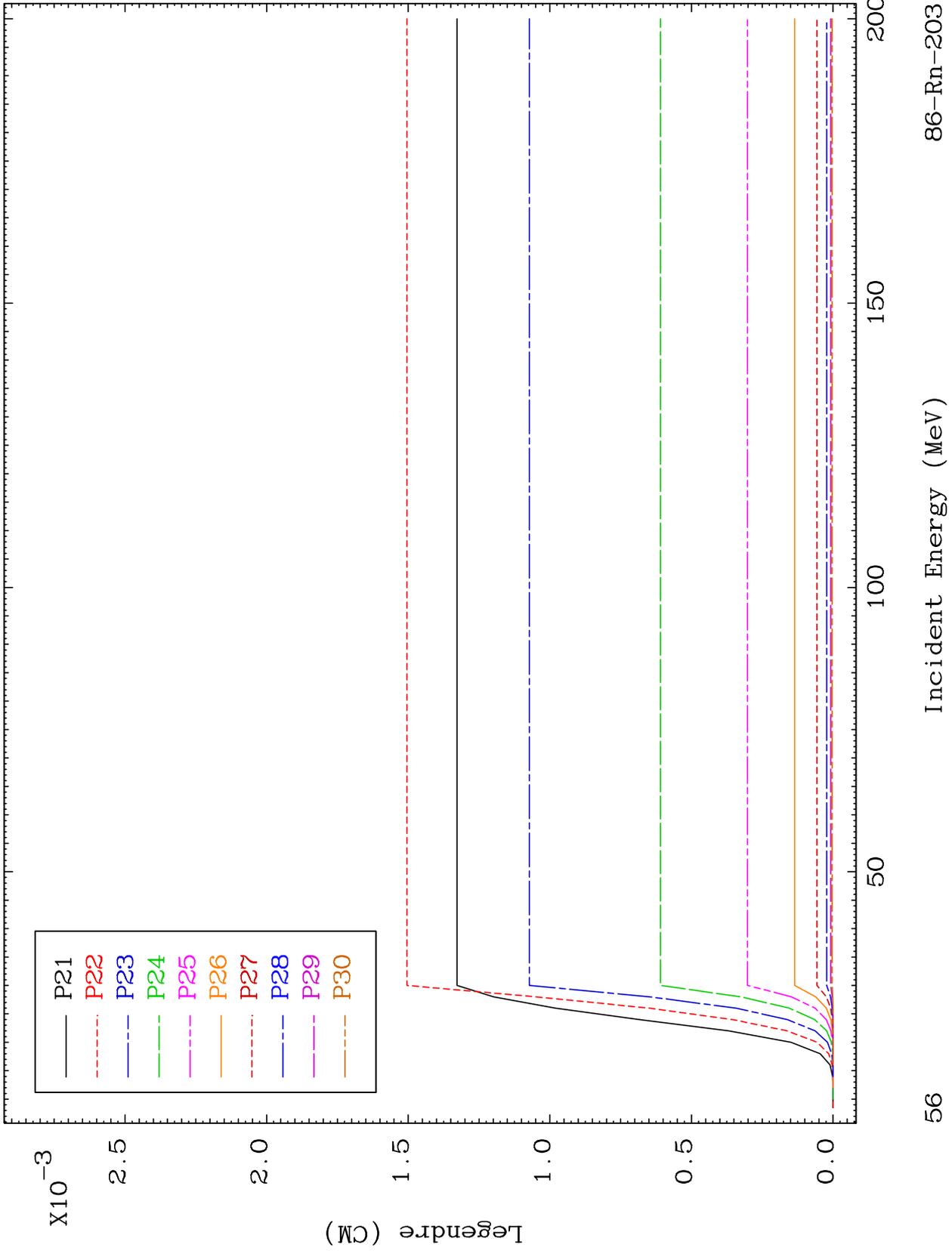
86-Rn-203



54

Incident Energy (MeV)

86-Rn-203

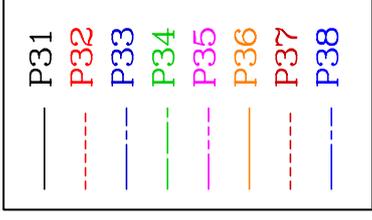


MAT 8601

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

86-Rn-203

$\times 10^{-6}$
1.0



Legendre (CM)

0.8

0.6

0.4

0.2

0.0

50

100

150

200

57

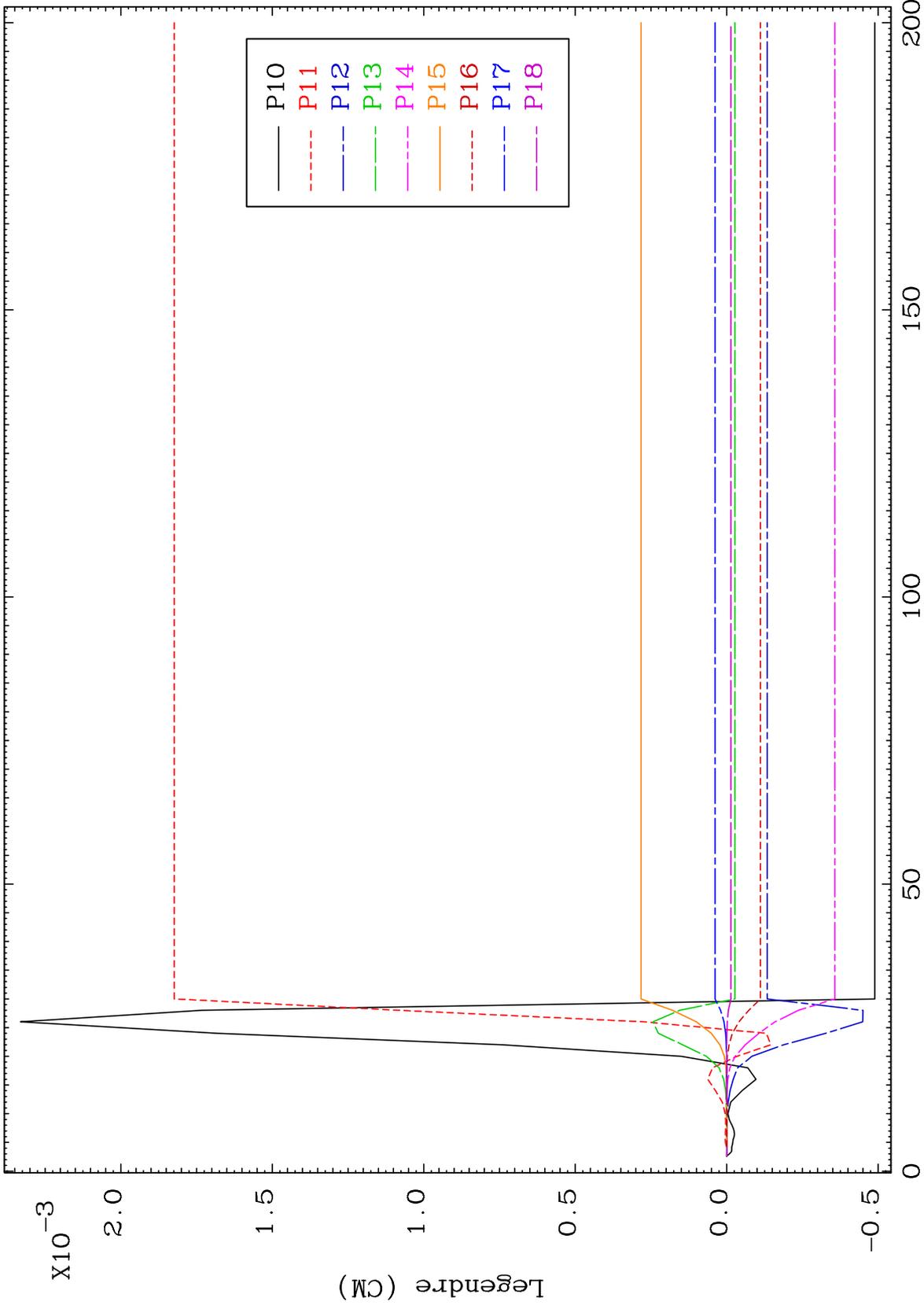
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



59

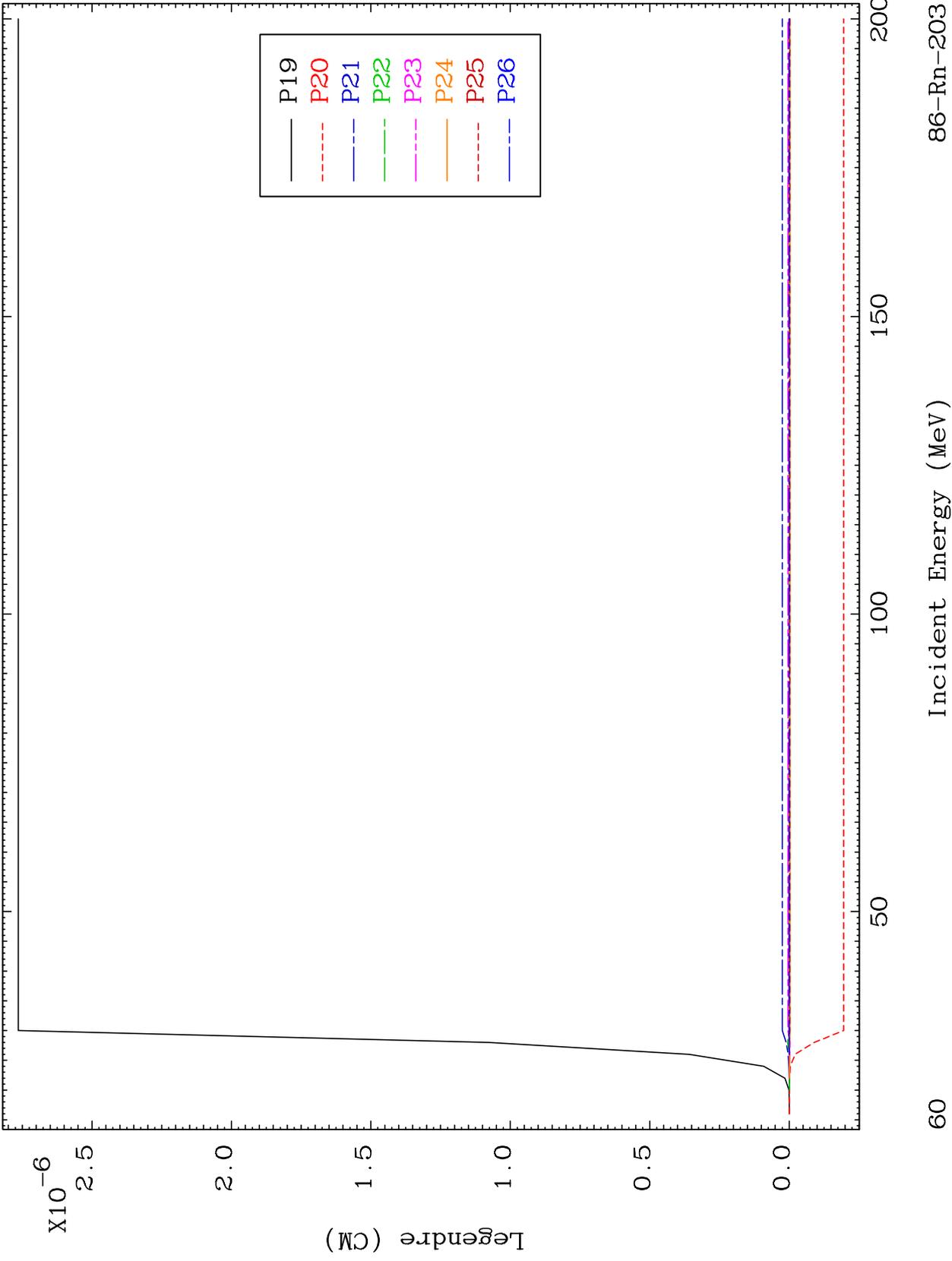
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

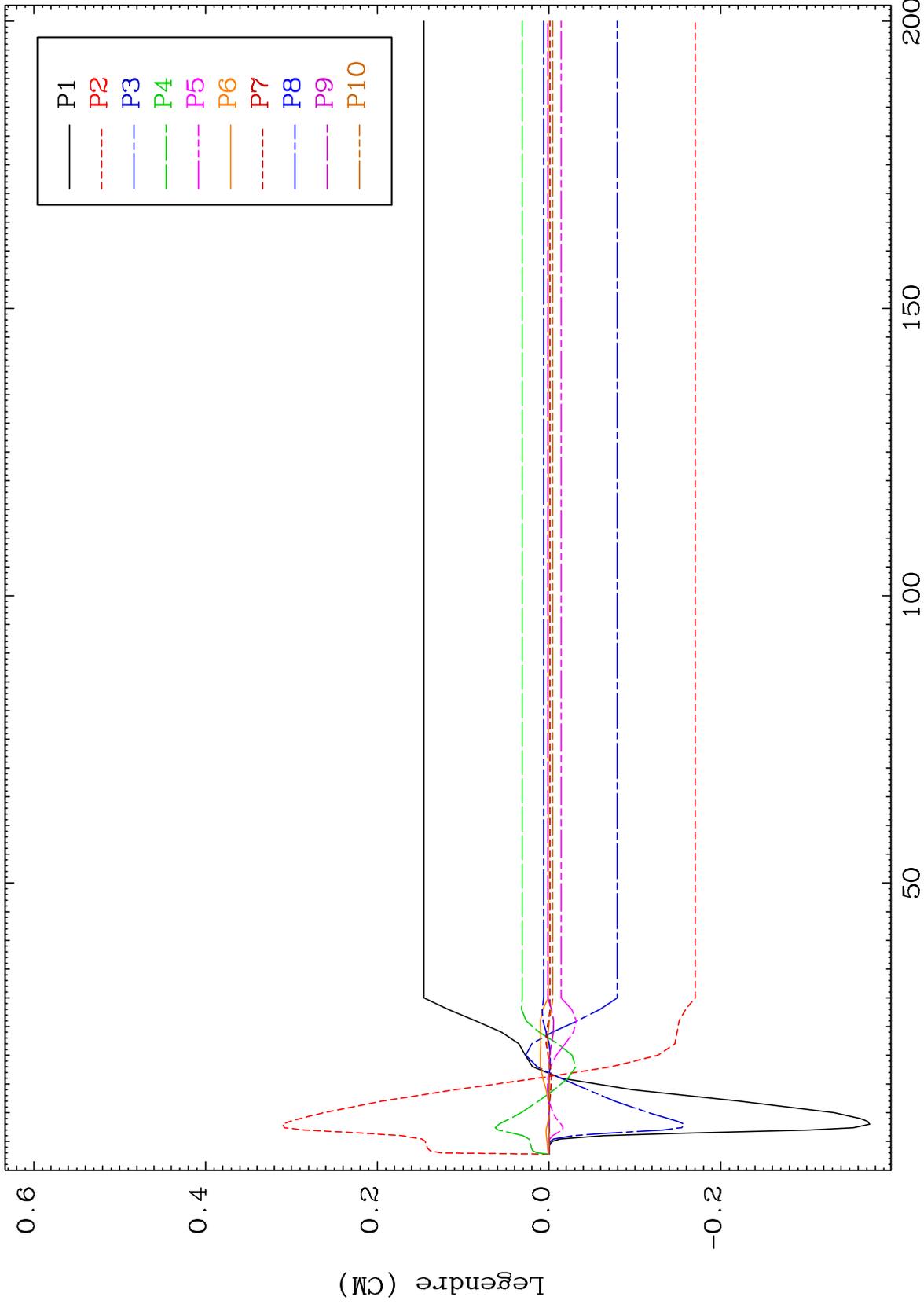
86-Rn-203



MAT 8601

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

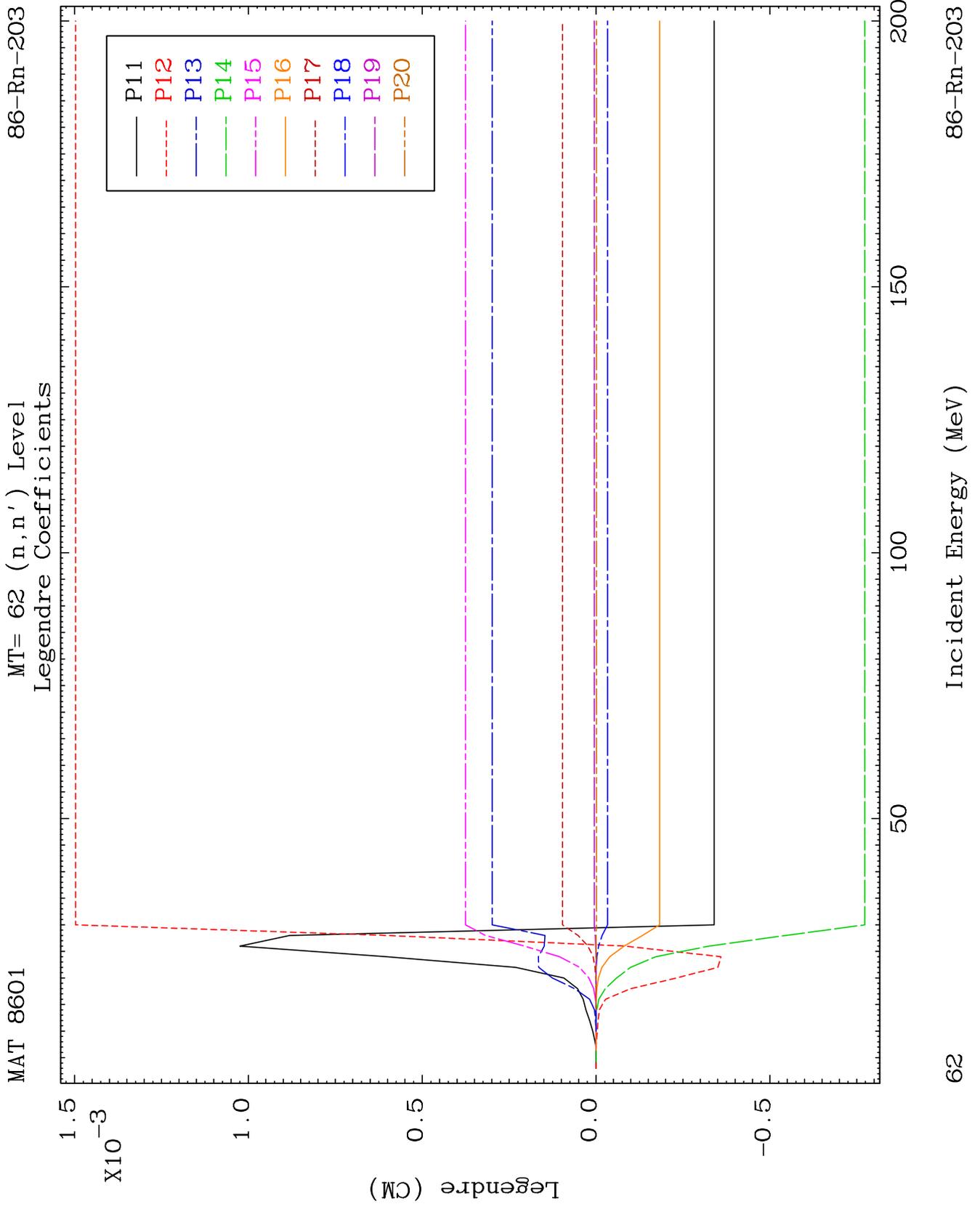
86-Rn-203



61

Incident Energy (MeV)

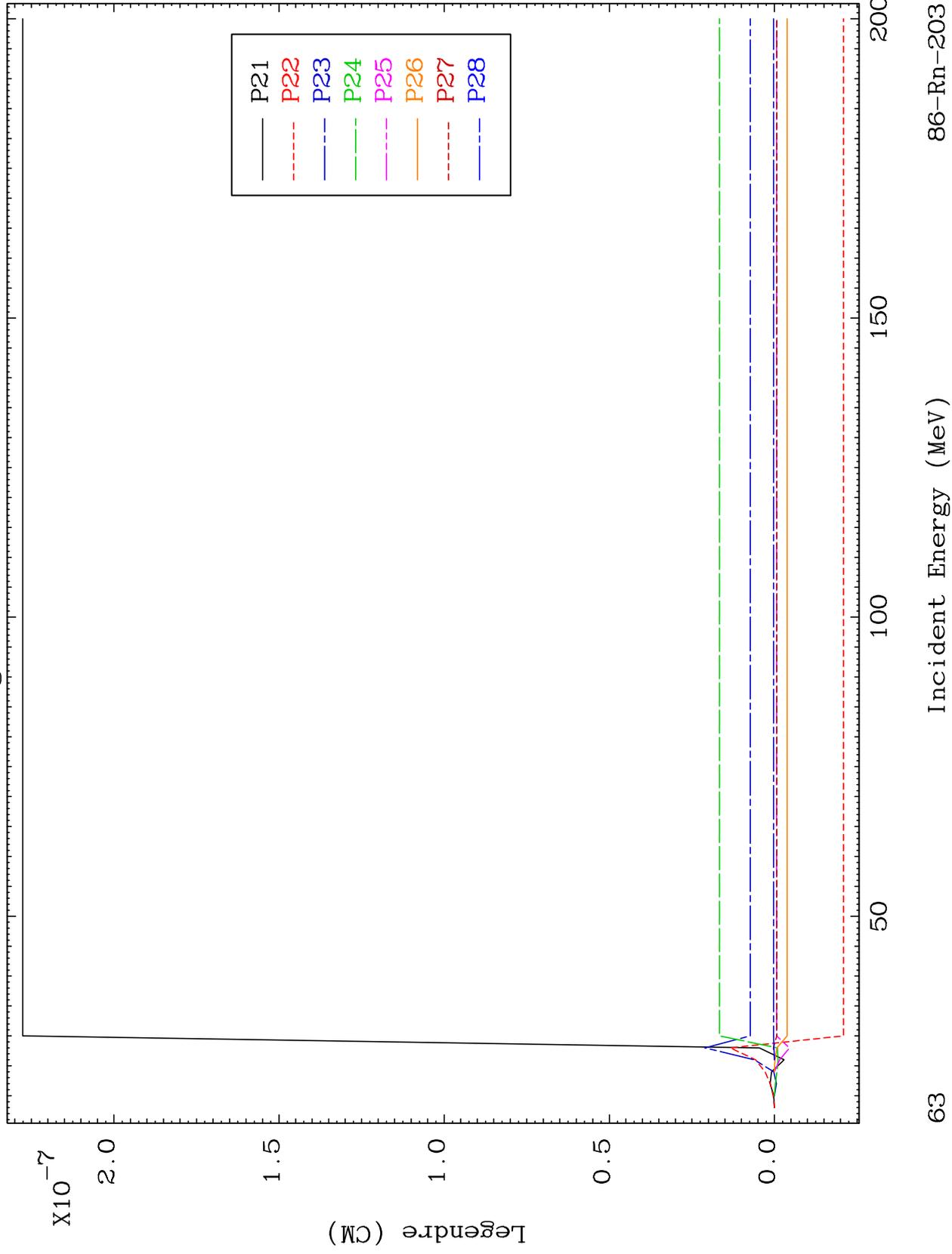
86-Rn-203



MAT 8601

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

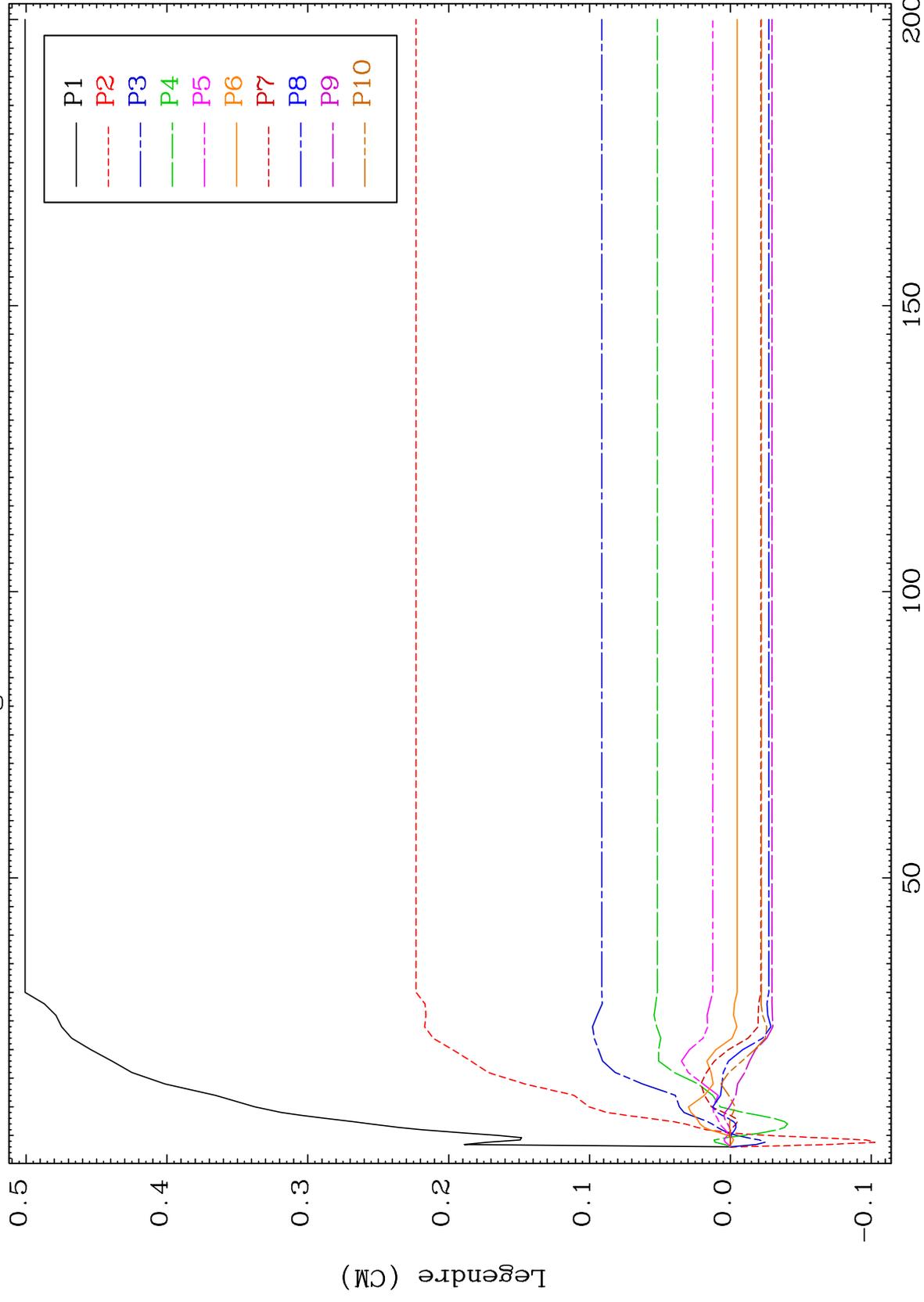
86-Rn-203



MAT 8601

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

86-Rn-203



64

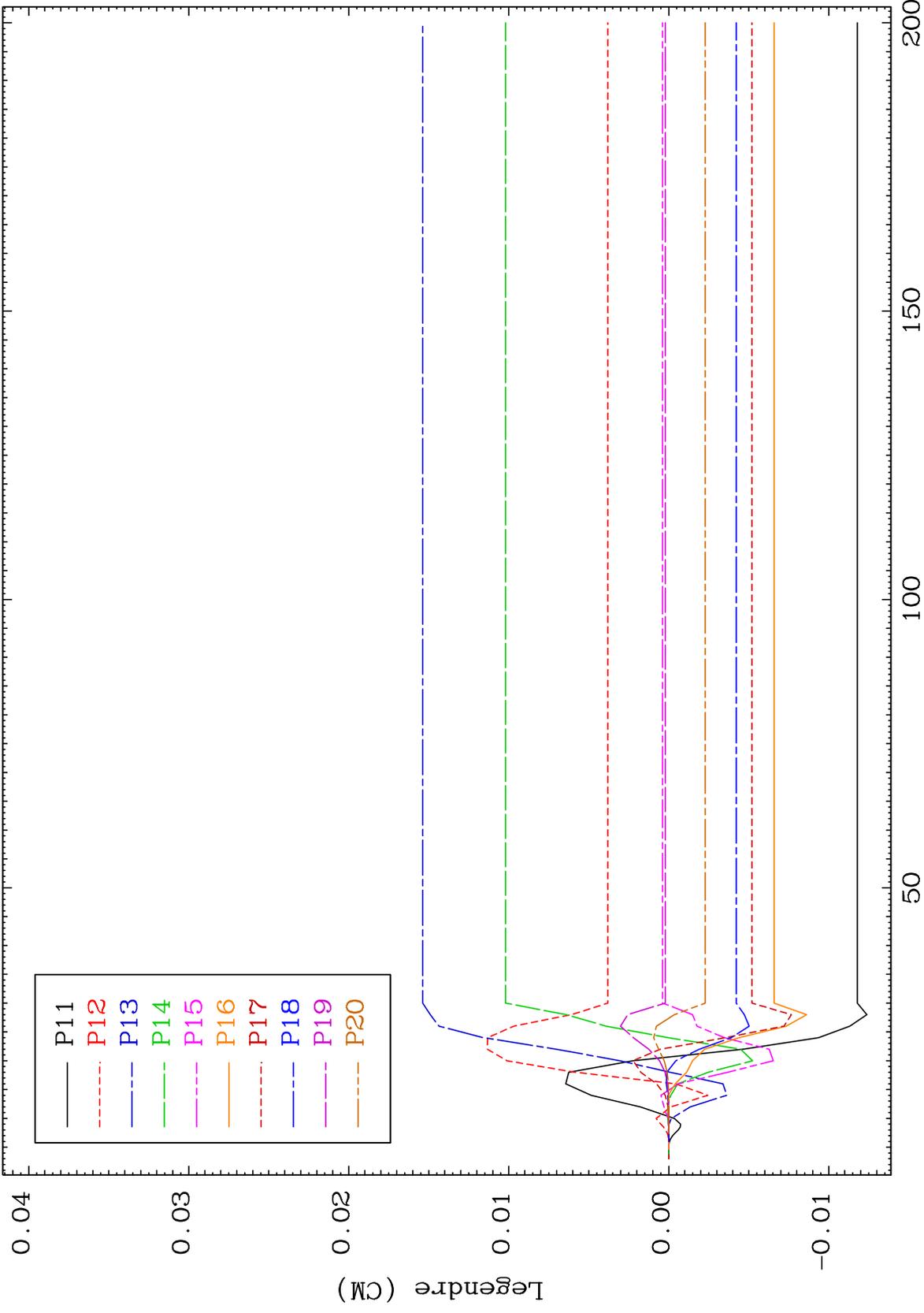
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

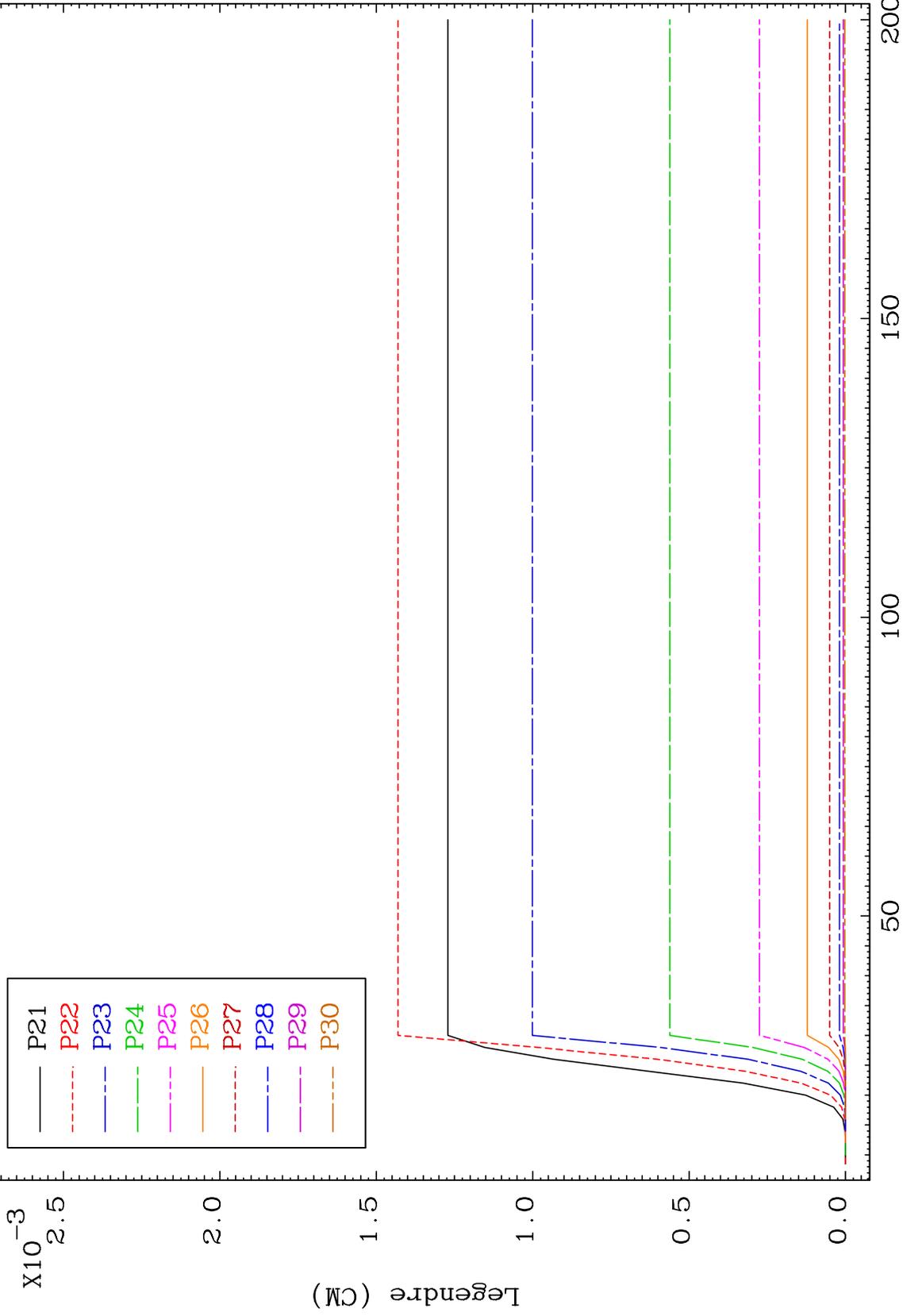
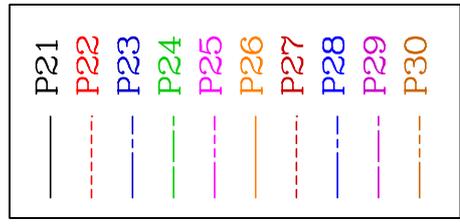
86-Rn-203



65

Incident Energy (MeV)

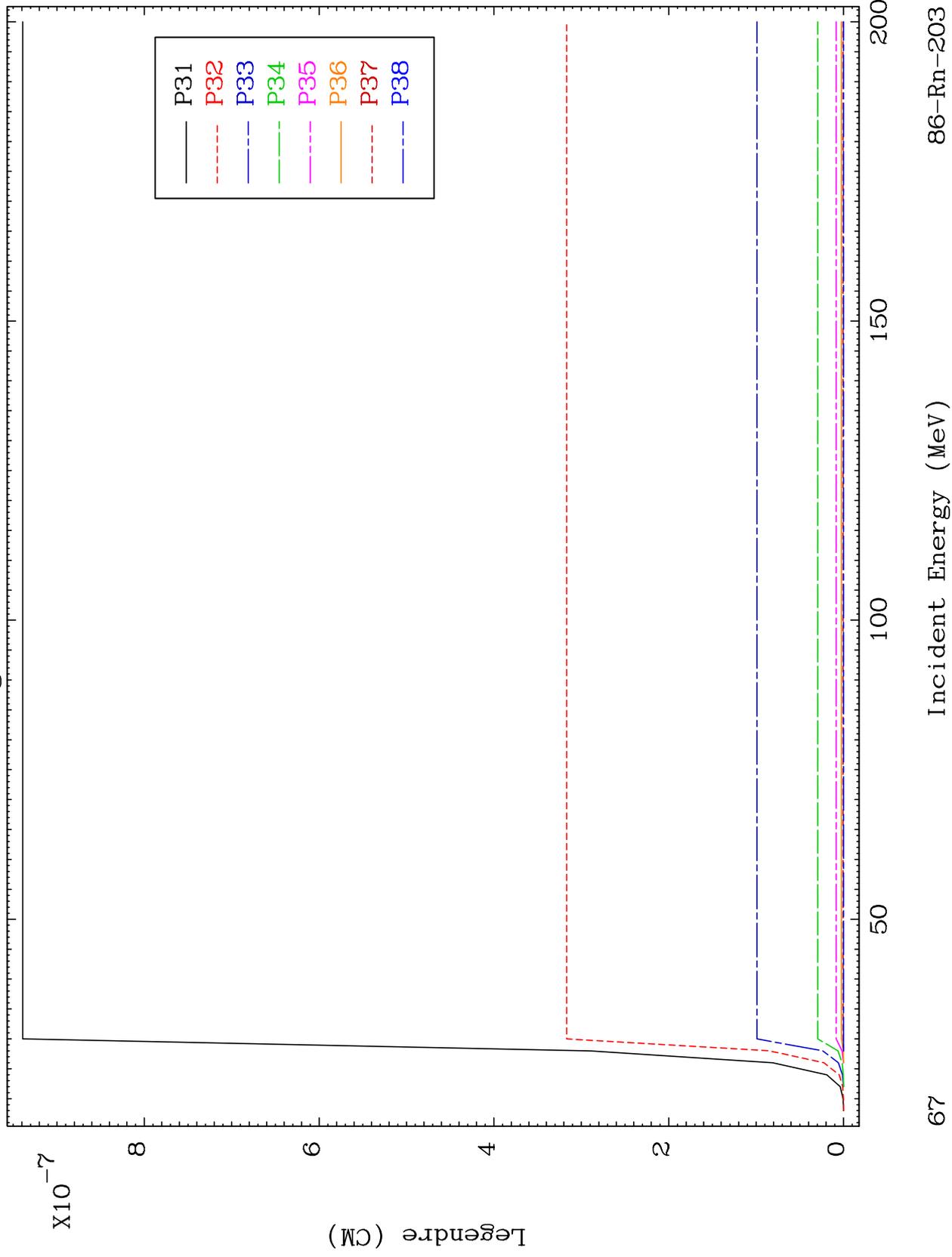
86-Rn-203



MAT 8601

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

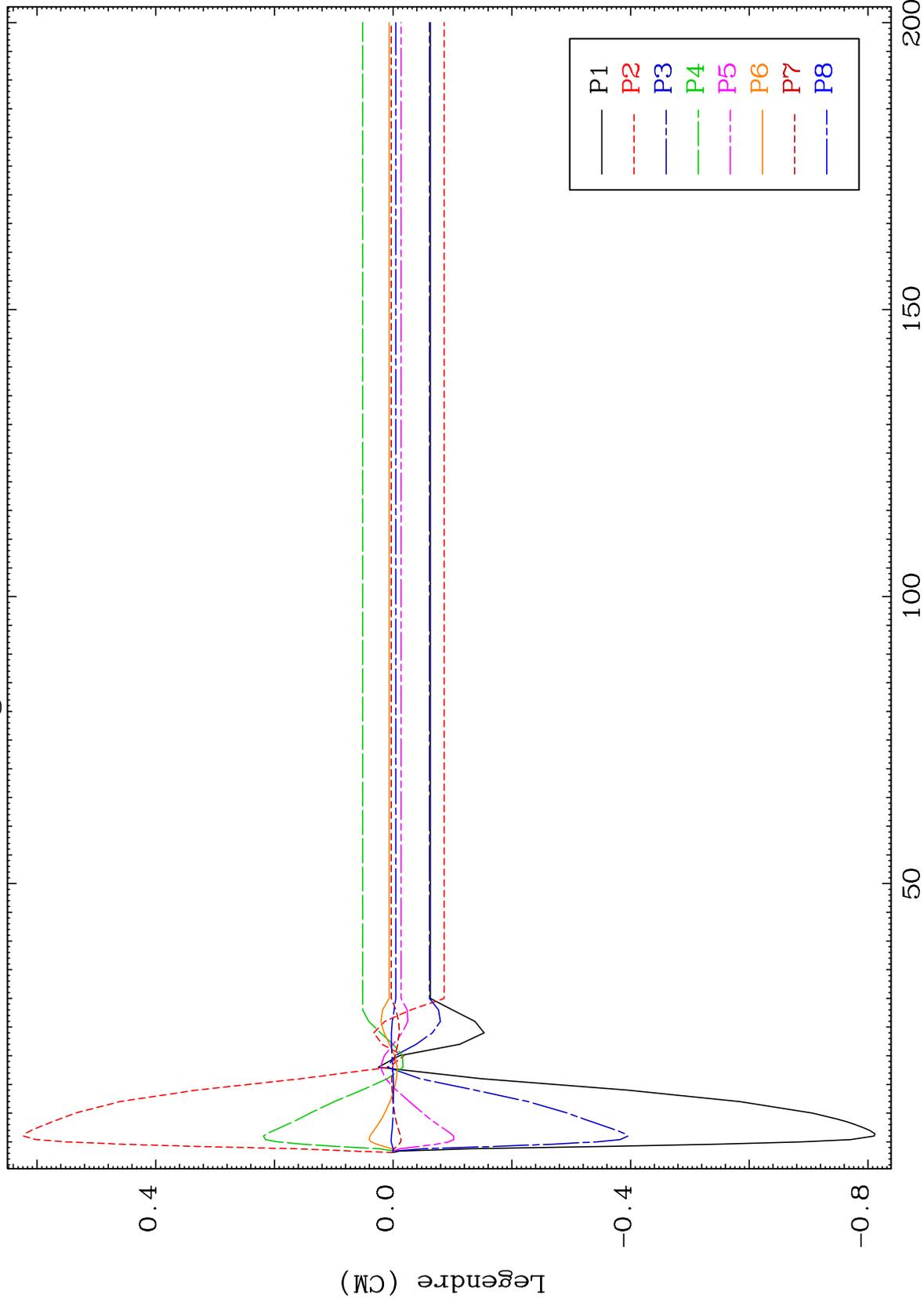
86-Rn-203



MAT 8601

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

86-Rn-203



68

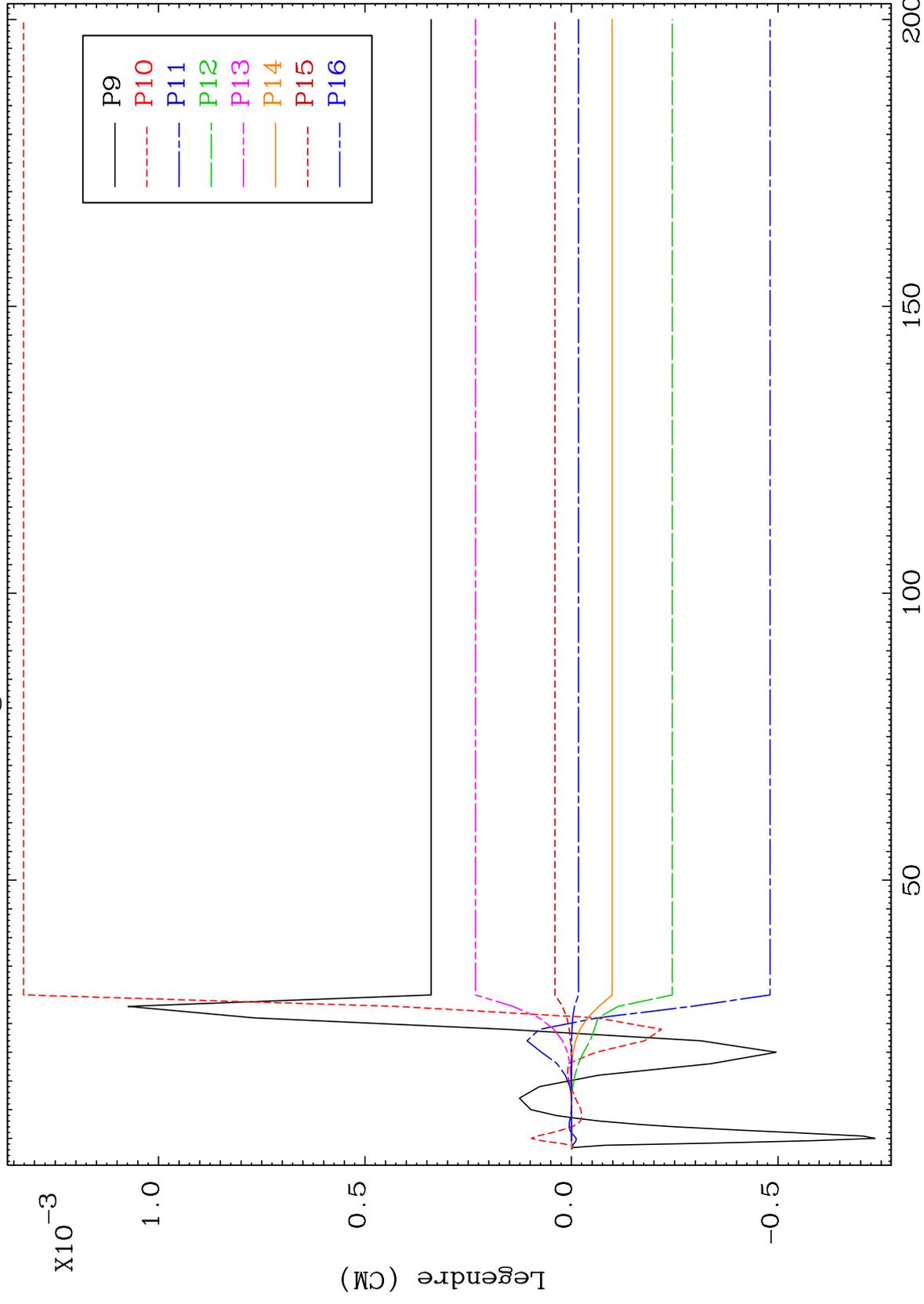
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



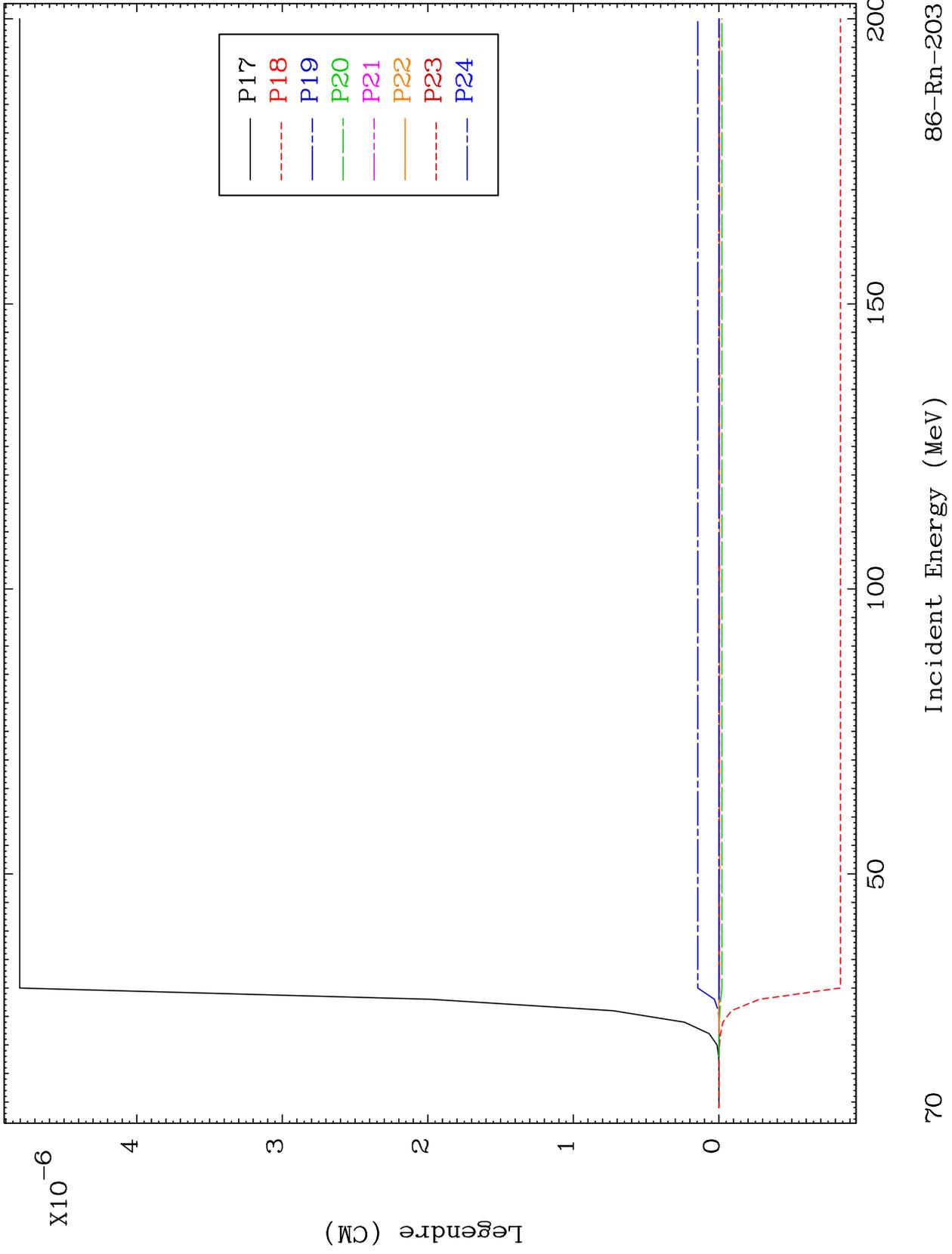
69

86-Rn-203

MAT 8601

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

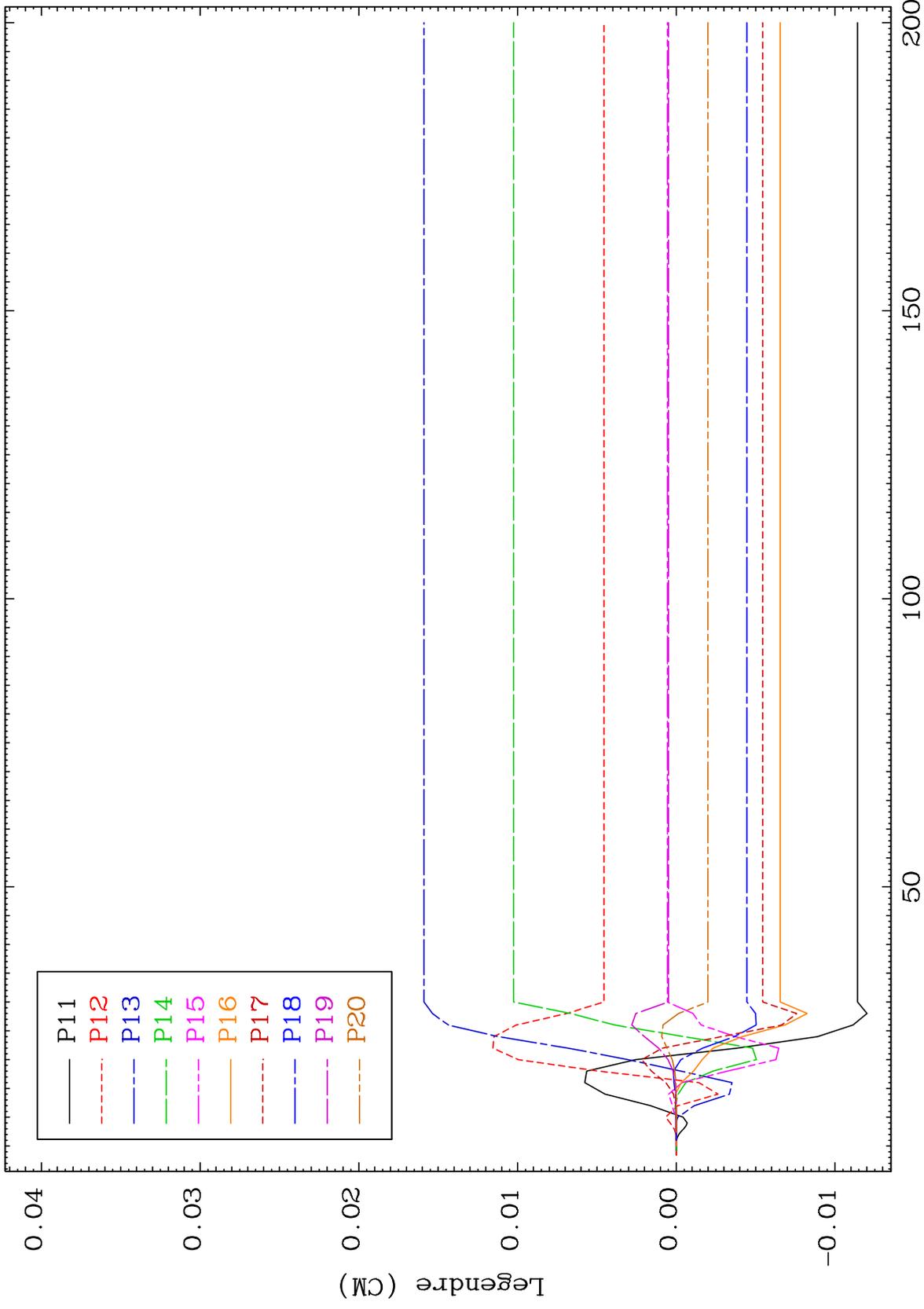
86-Rn-203



MAT 8601

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

86-Rn-203



72

Incident Energy (MeV)

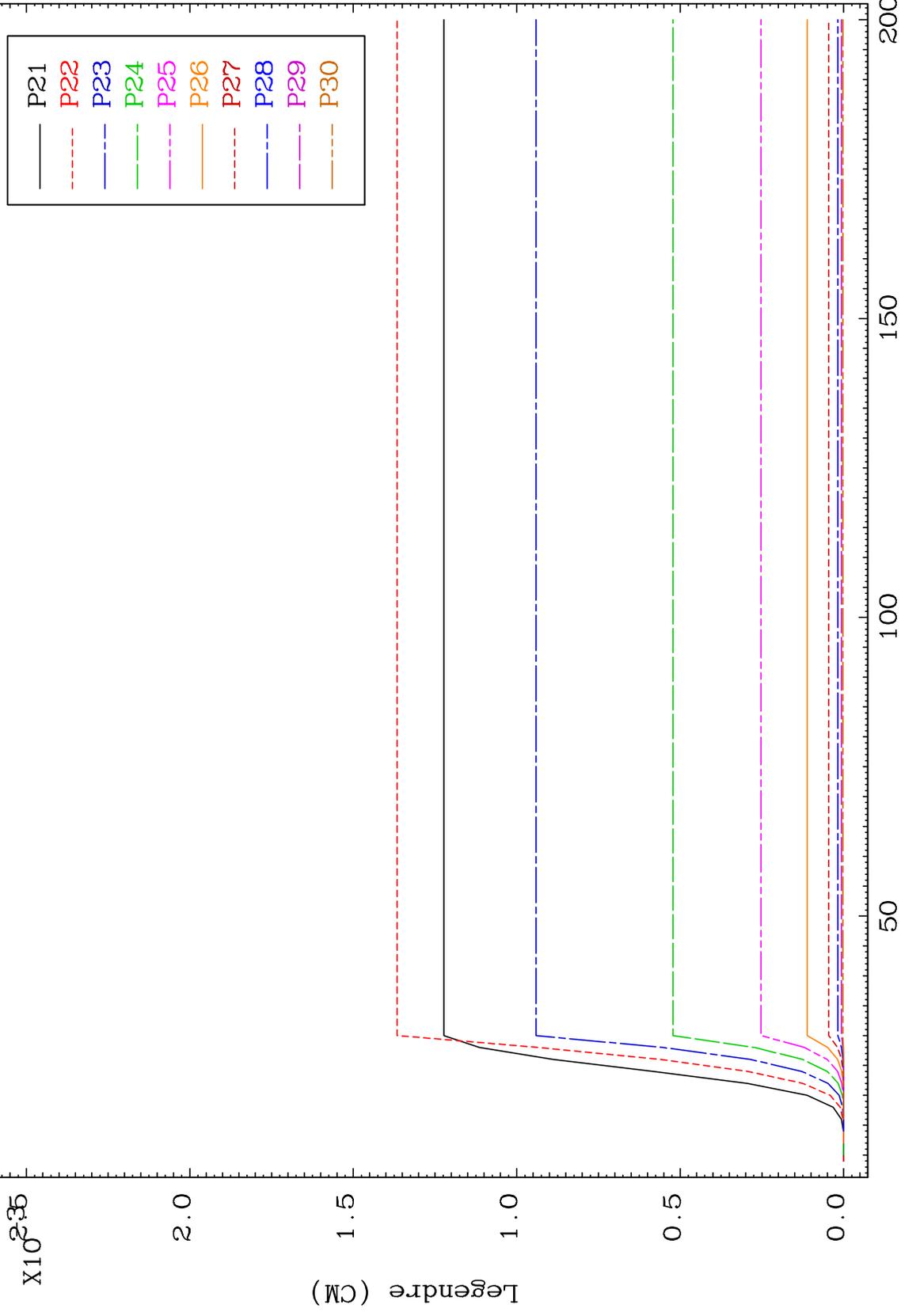
86-Rn-203

MAT 8601

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

86-Rn-203

$\times 10^{-35}$



73

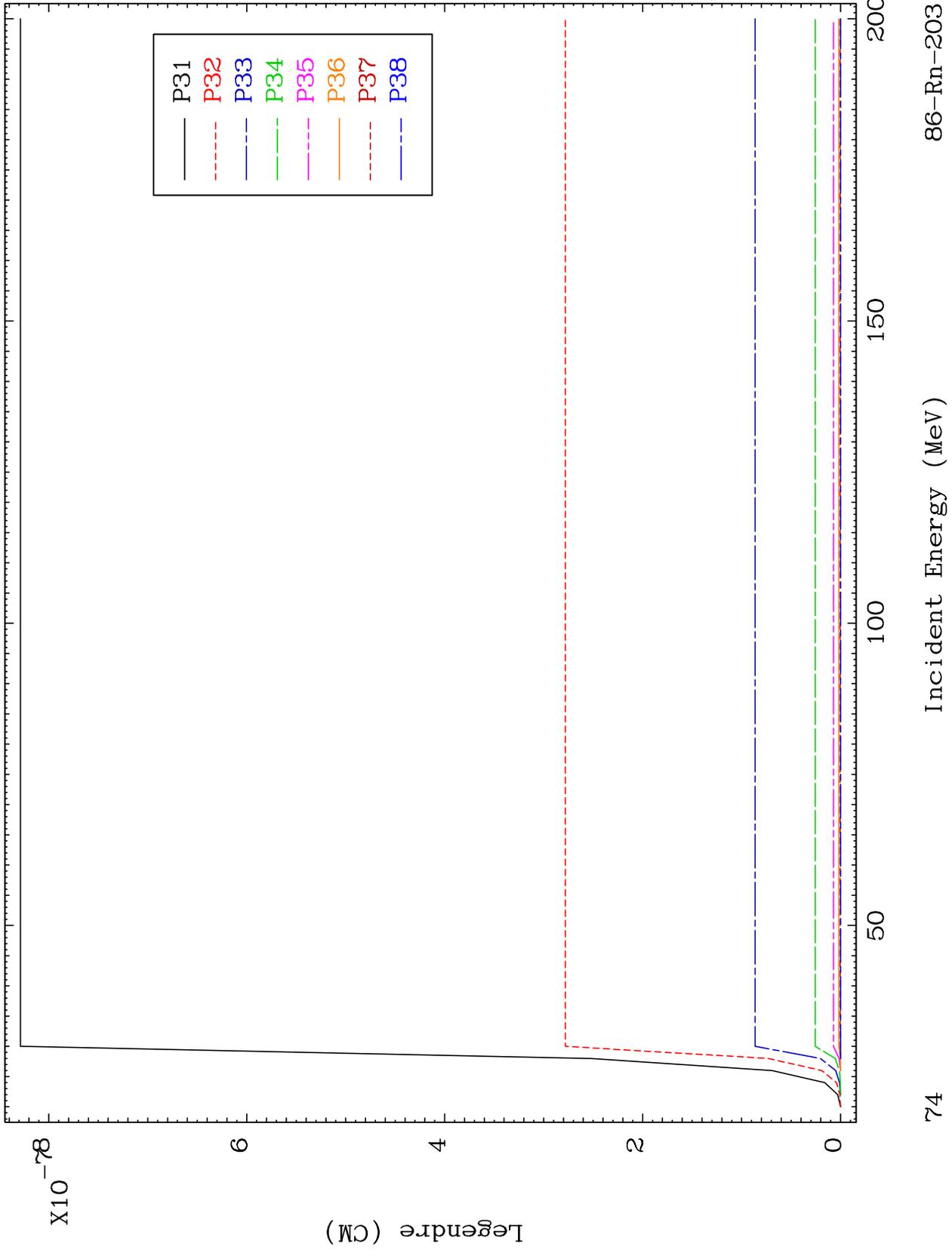
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

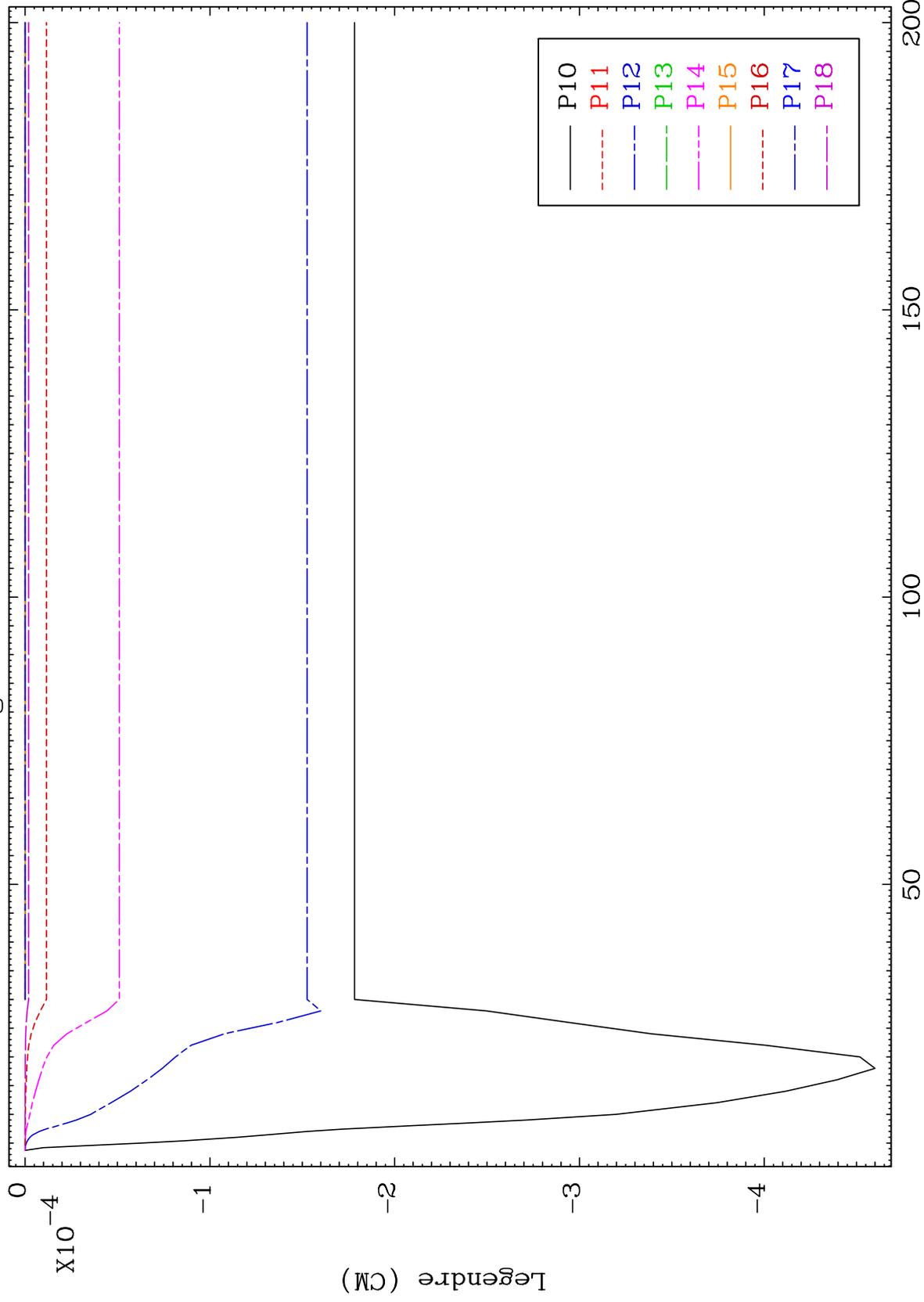
86-Rn-203



MAT 8601

86-Rn-203

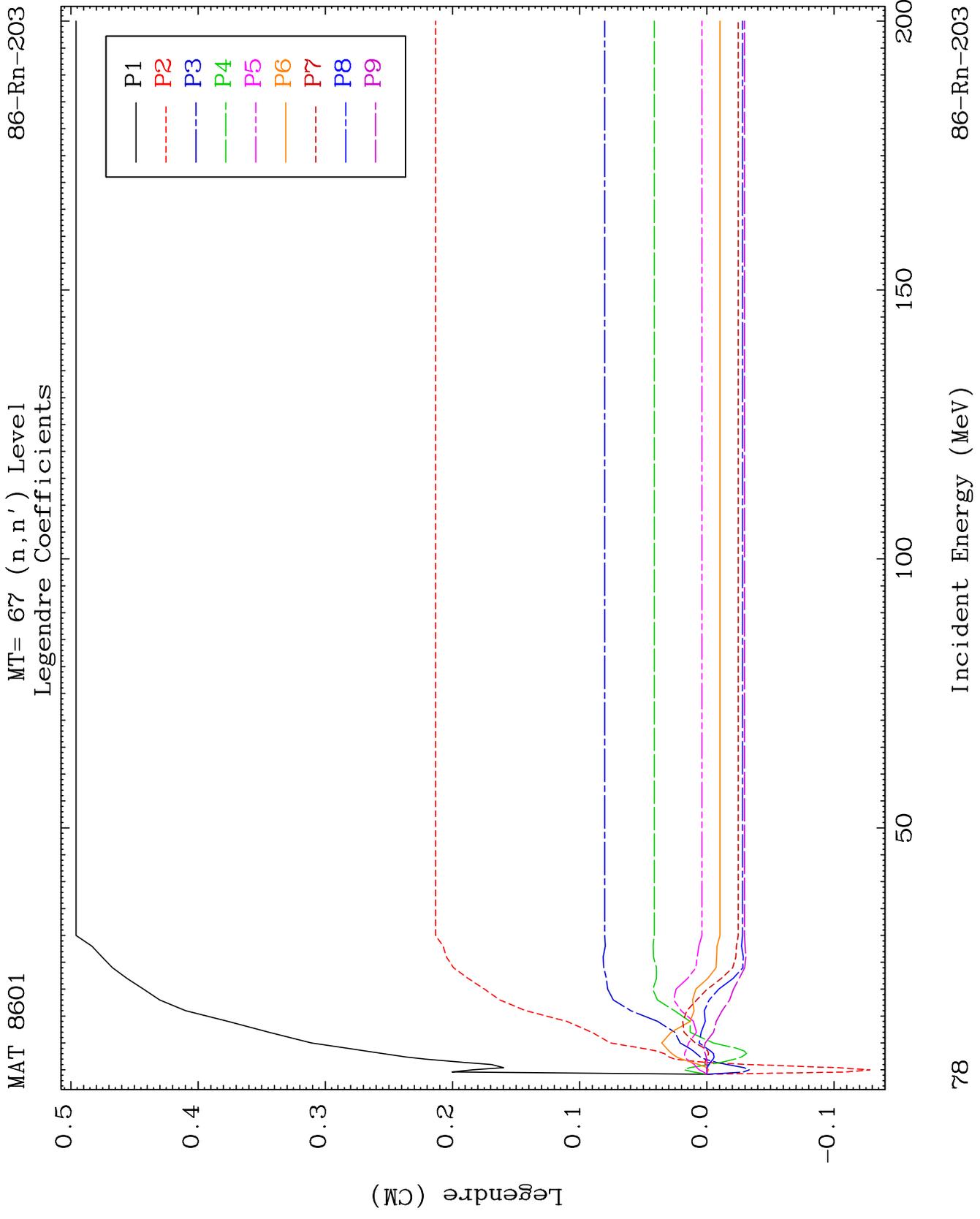
MT= 66 (n,n') Level
Legendre Coefficients



76

Incident Energy (MeV)

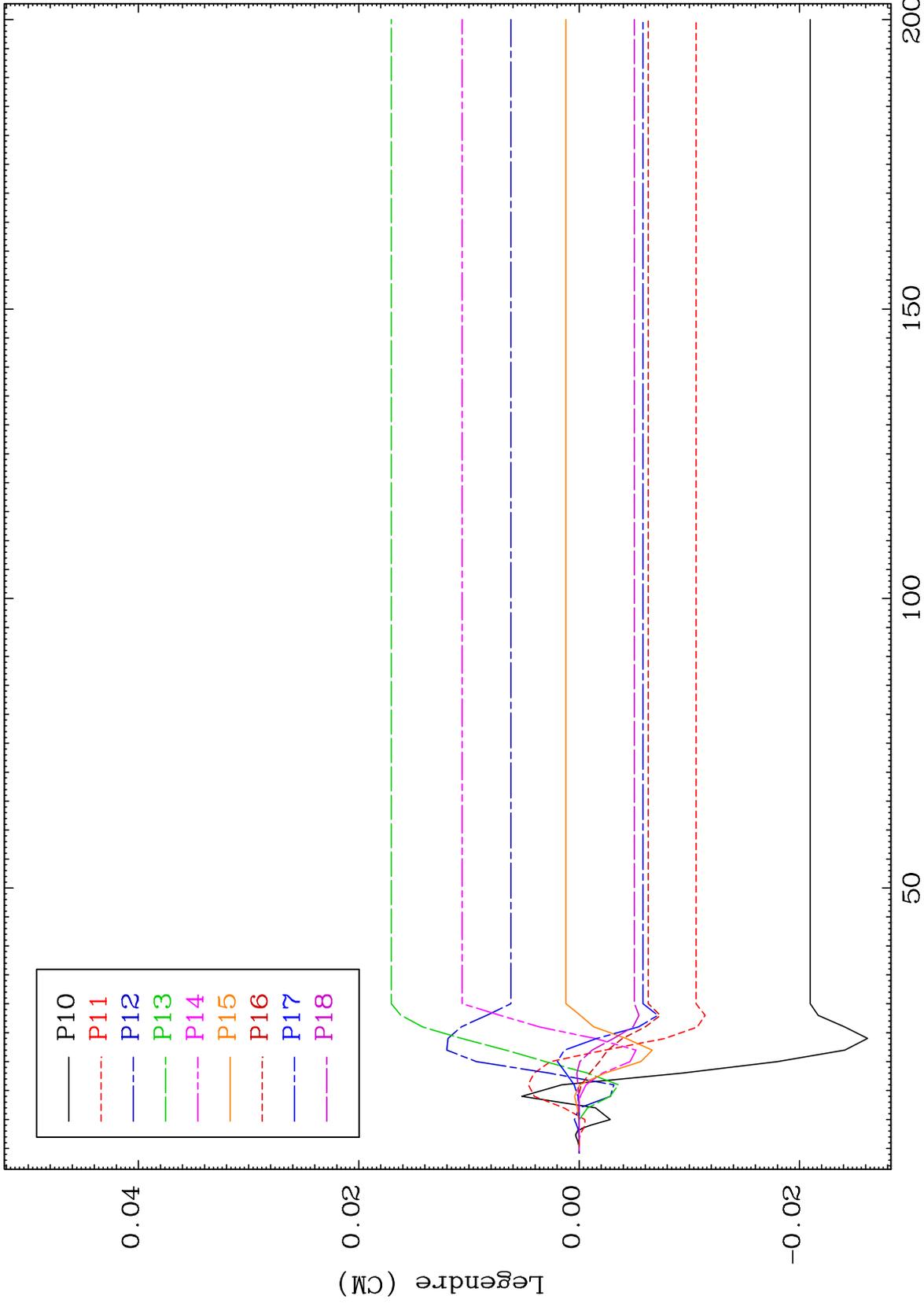
86-Rn-203



MAT 8601

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

86-Rn-203



79

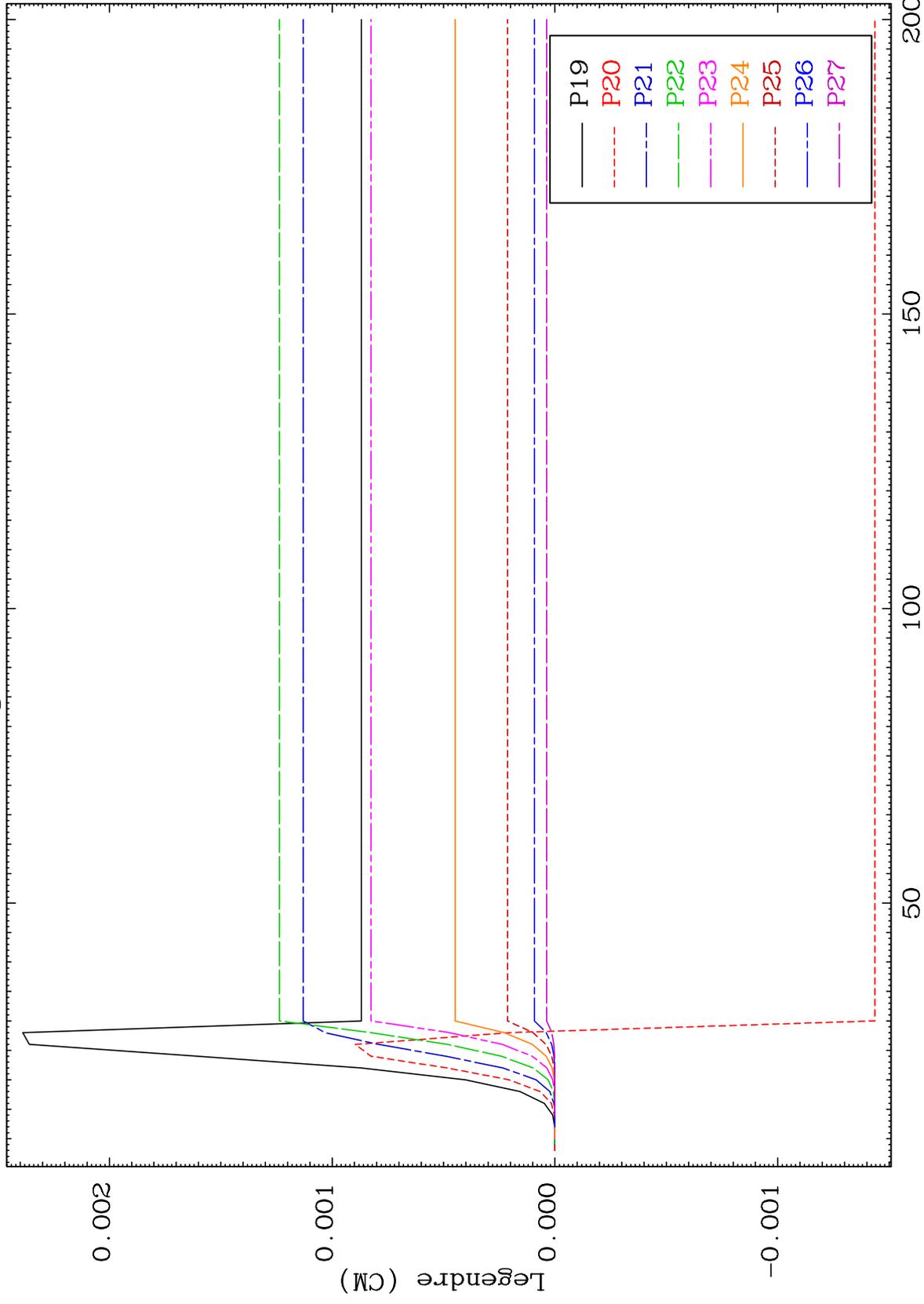
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



80

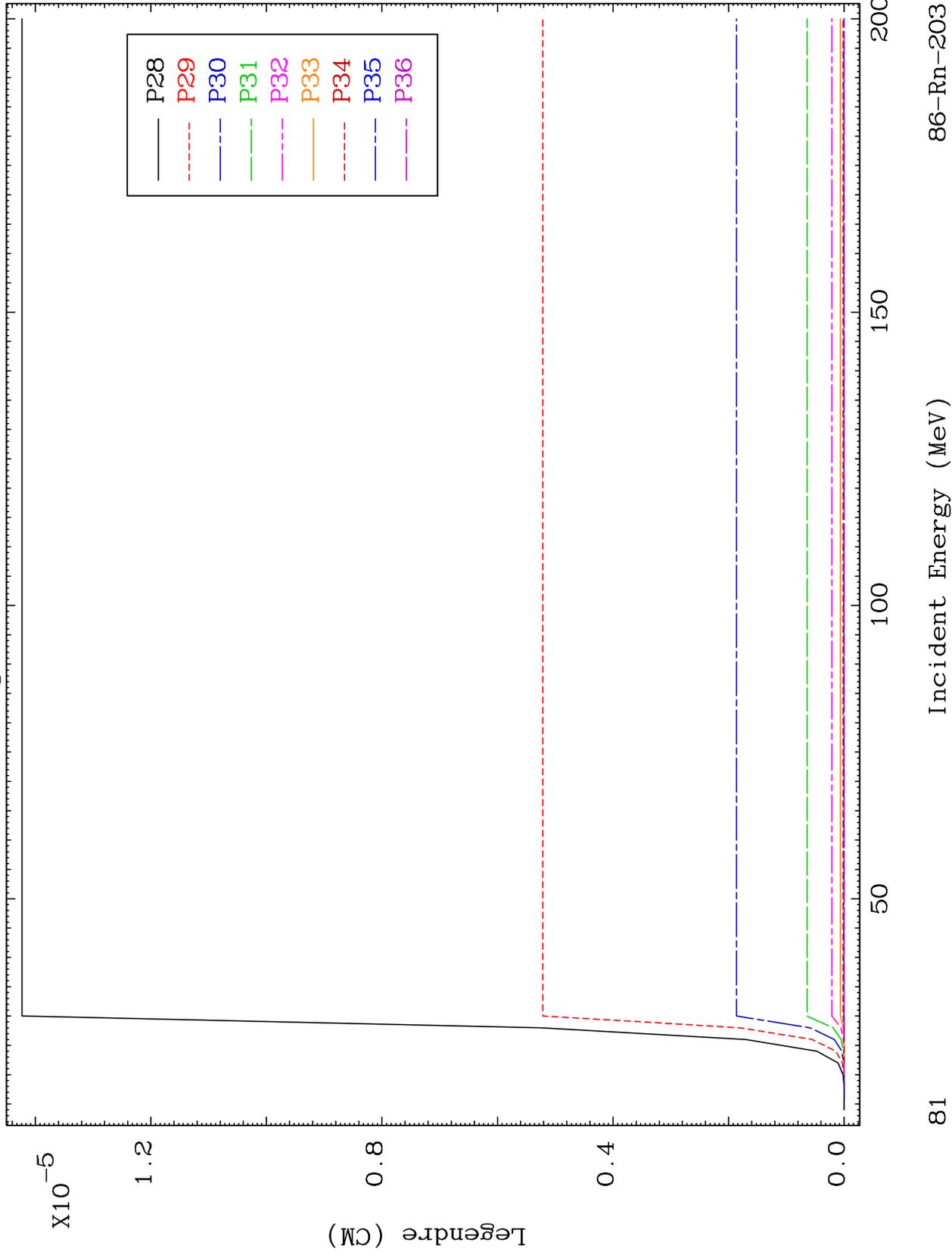
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



81

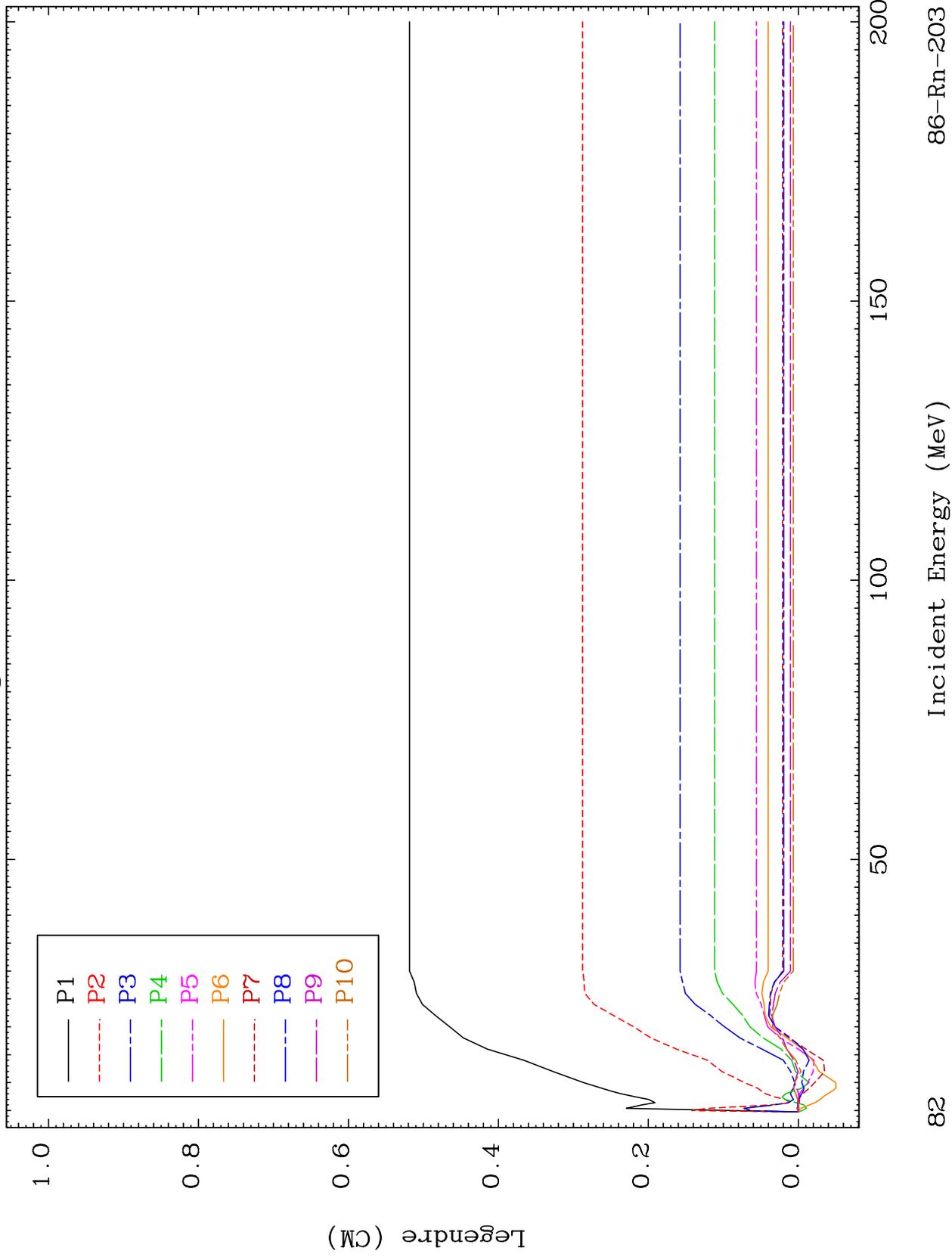
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203

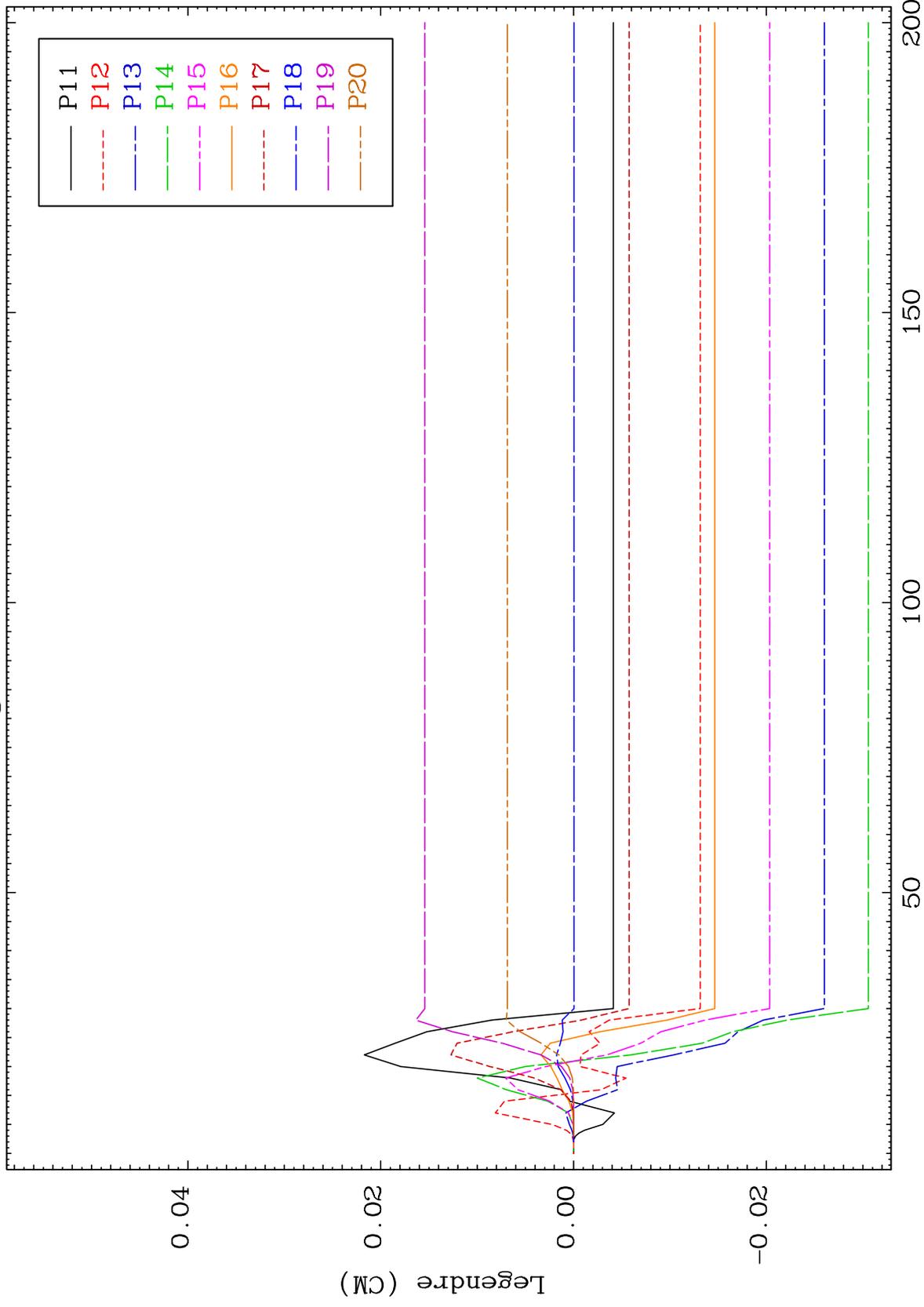


82

MAT 8601

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

86-Rn-203



83

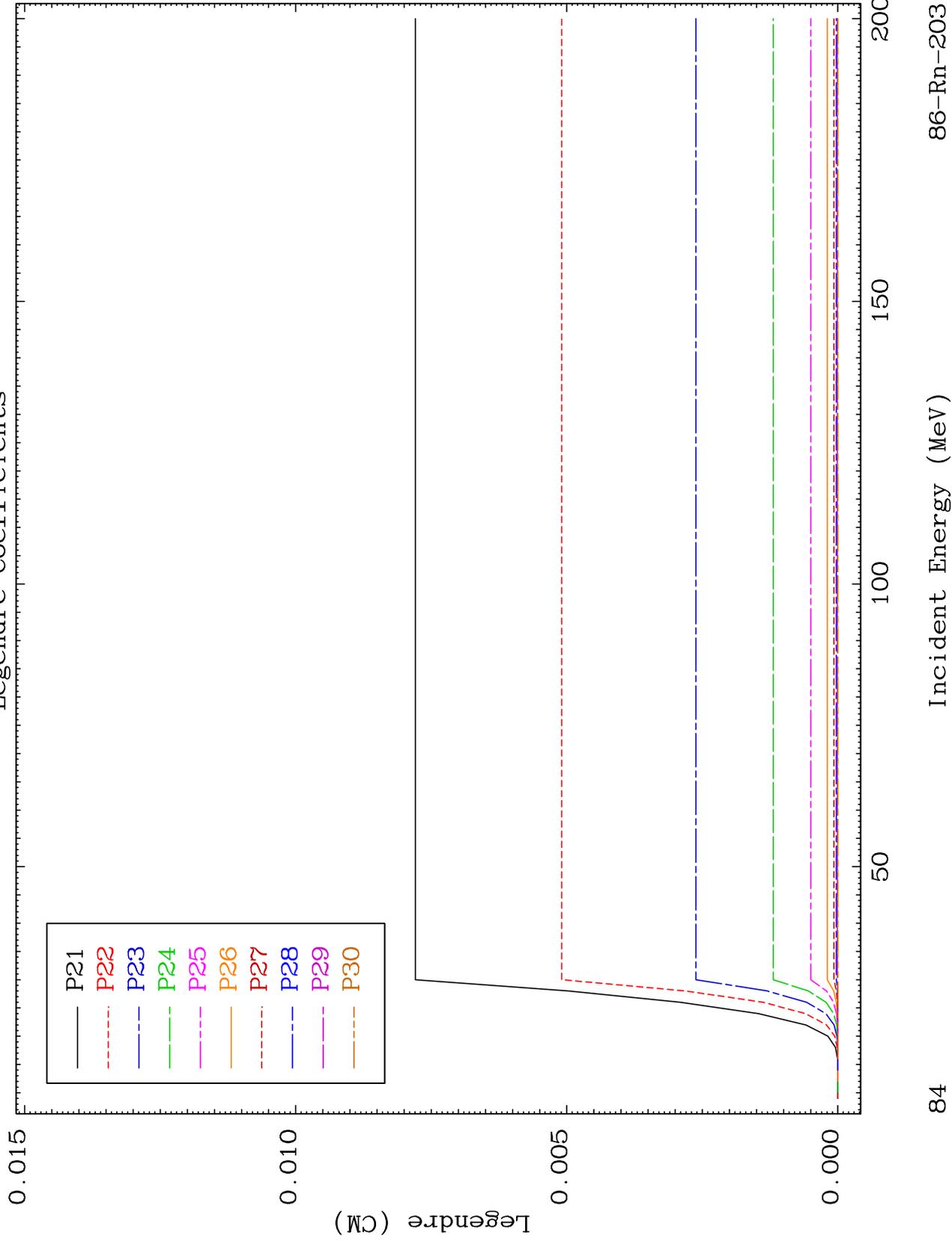
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



84

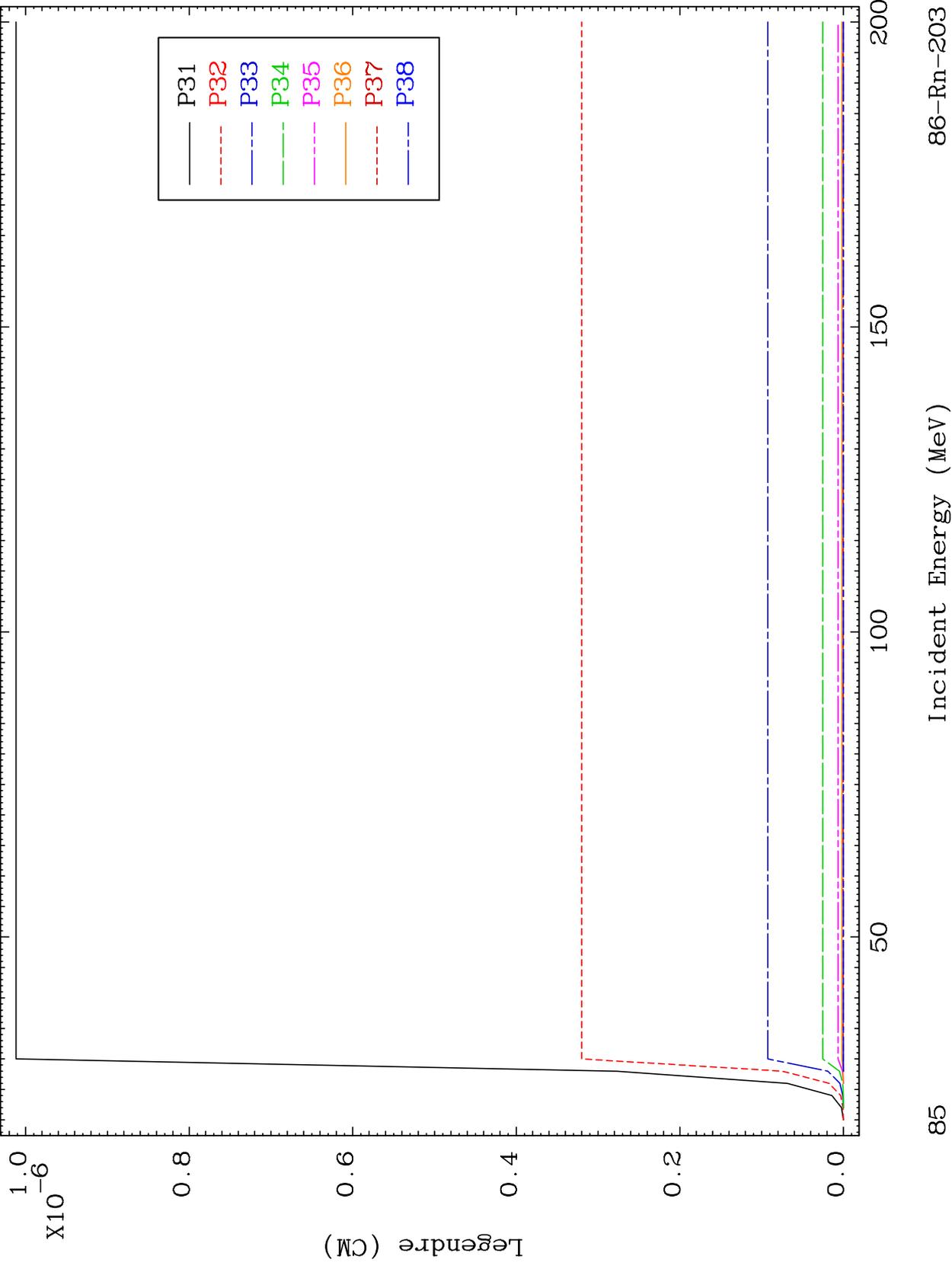
Incident Energy (MeV)

86-Rn-203

MAT 8601

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

86-Rn-203



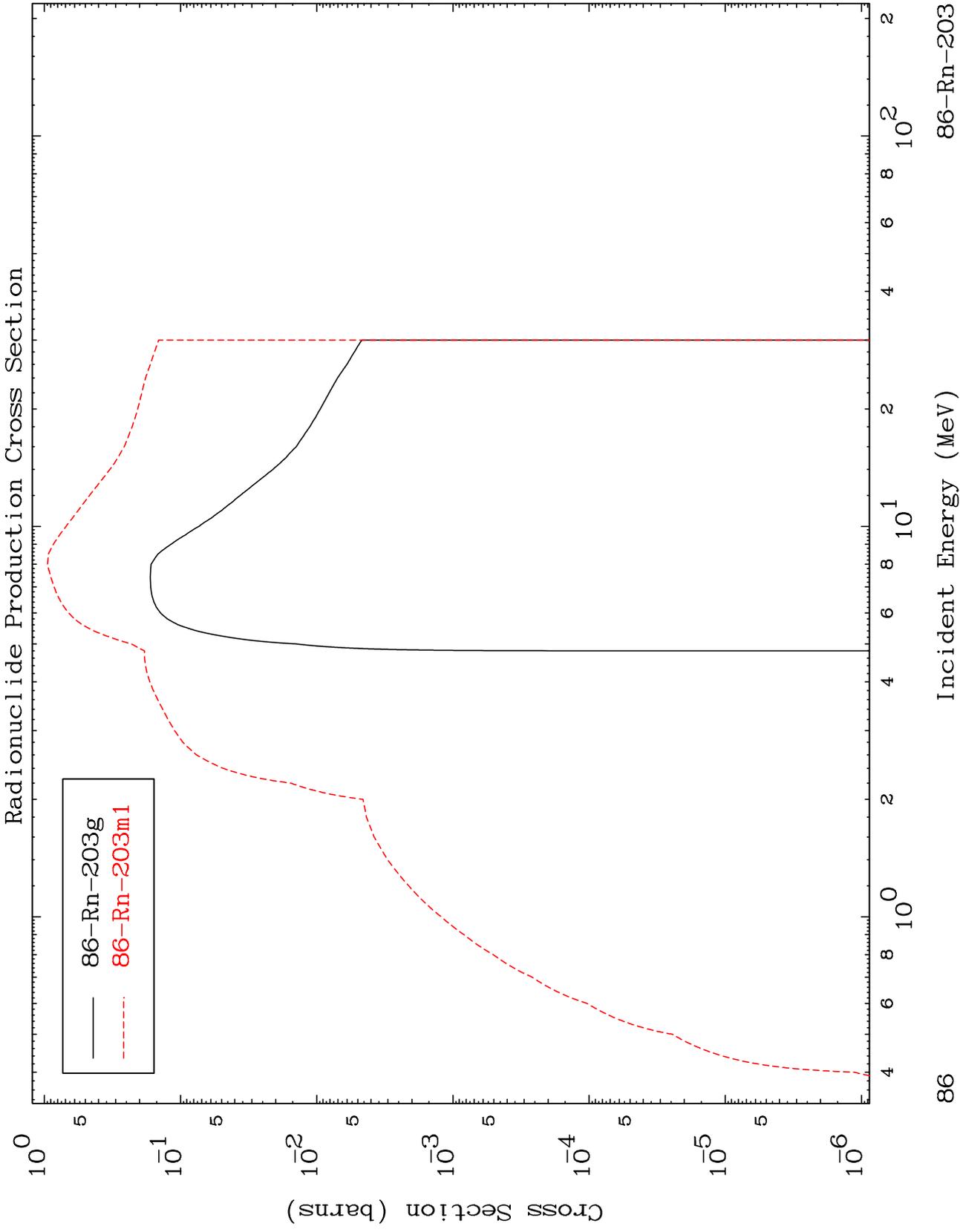
85

Incident Energy (MeV)

86-Rn-203

MAT 8601

86-Rn-203



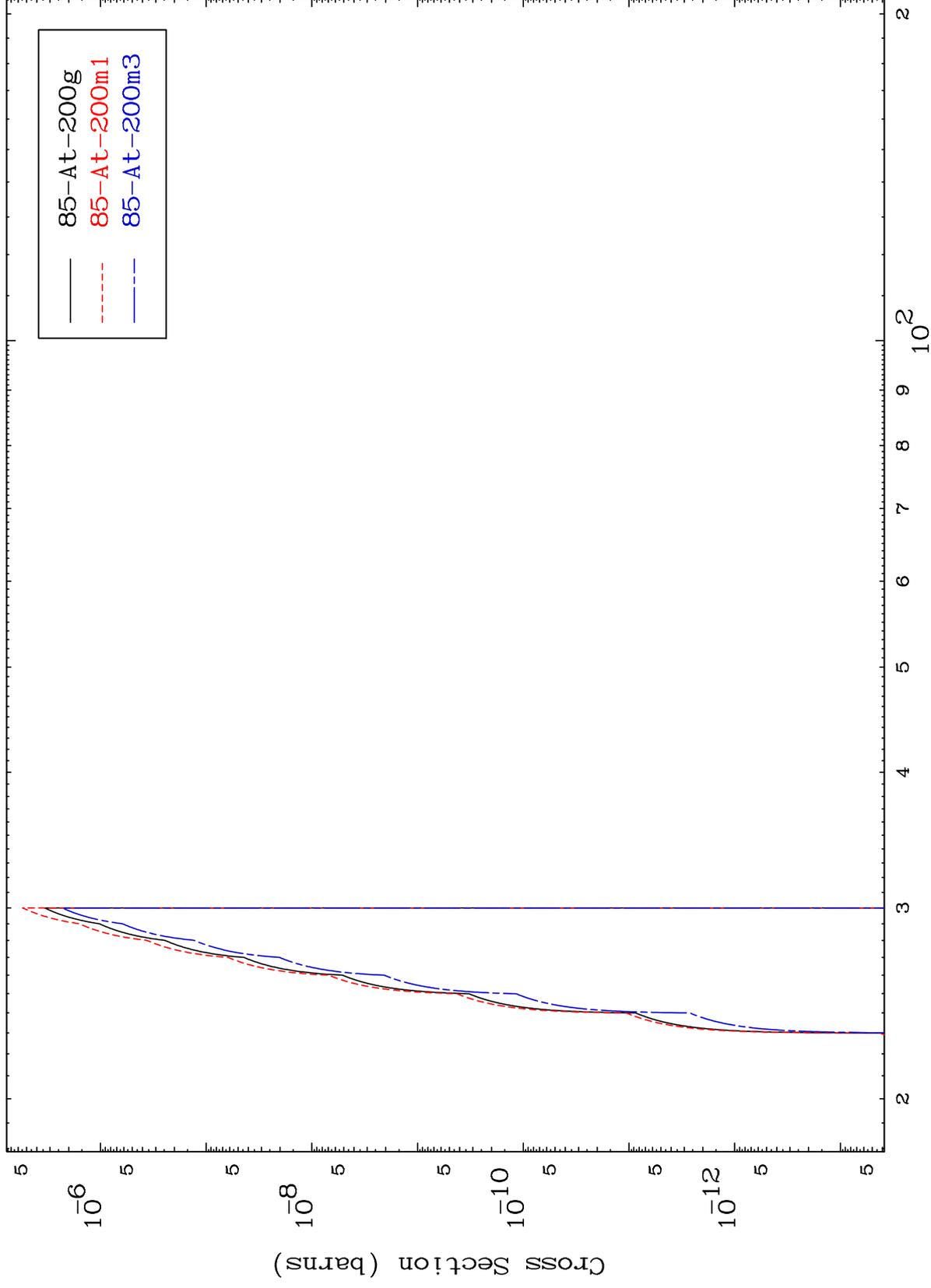
86

MAT 8601

(n,2n) d

86-Rn-203

Radionuclide Production Cross Section



87

Incident Energy (MeV)

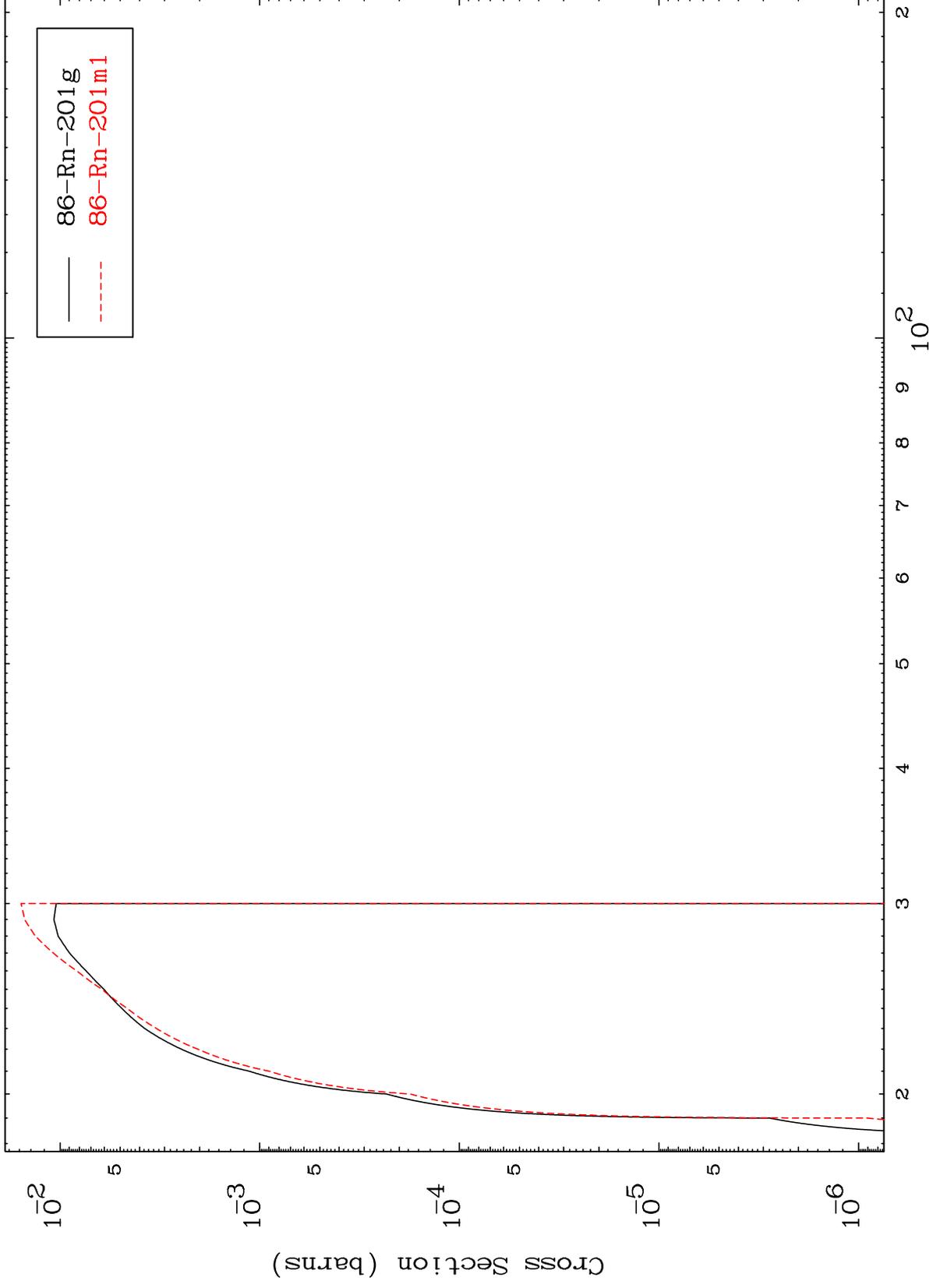
86-Rn-203

MAT 8601

(n,3n)

86-Rn-203

Radionuclide Production Cross Section



88

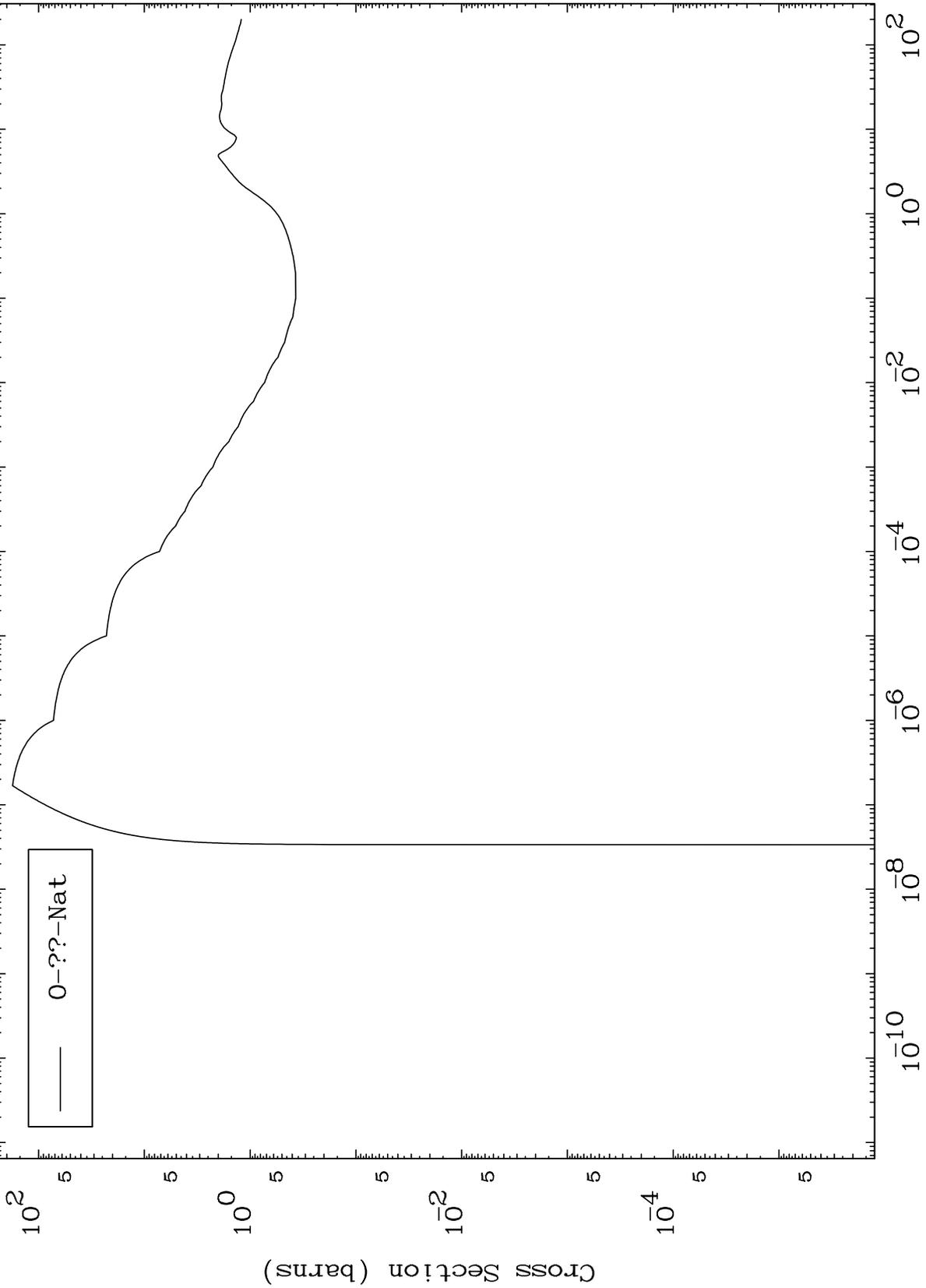
Incident Energy (MeV)

86-Rn-203

MAT 8601

86-Rn-203

Fission
Radionuclide Production Cross Section



89

86-Rn-203

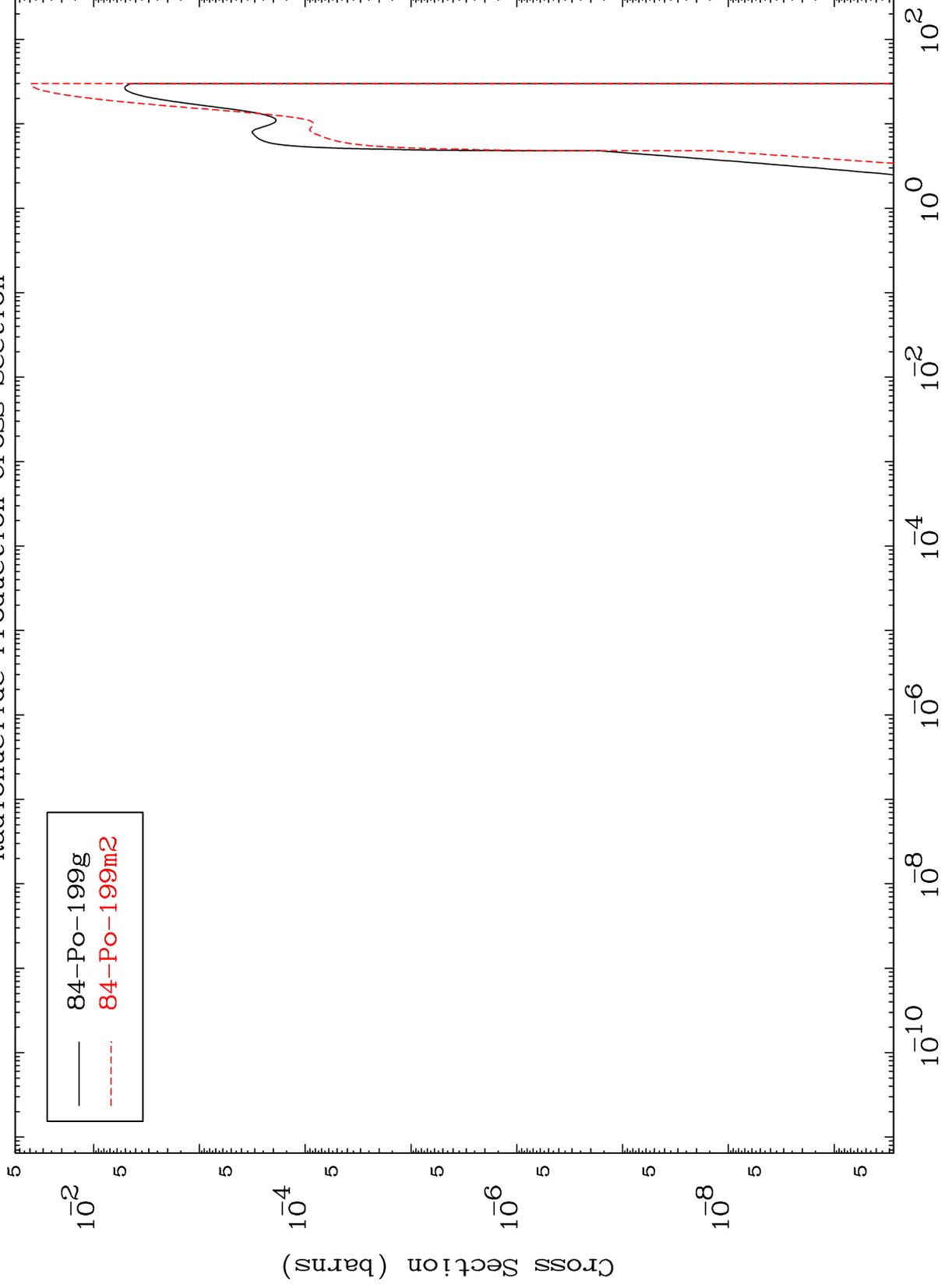
Incident Energy (MeV)

MAT 8601

$(n, n') \alpha$

86-Rn-203

Radionuclide Production Cross Section



— 84-Po-199g
- - - 84-Po-199m2

90

Incident Energy (MeV)

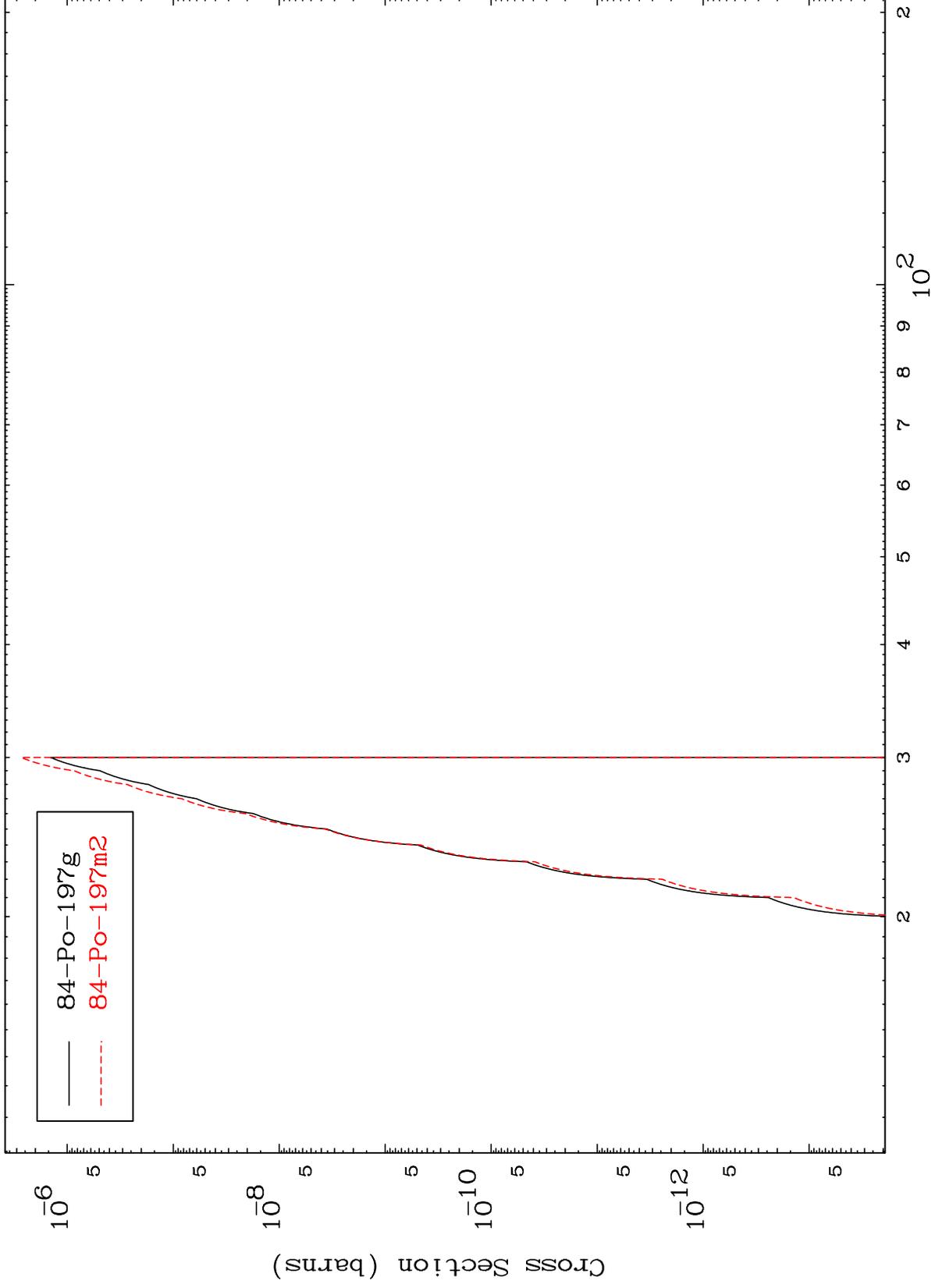
86-Rn-203

MAT 8601

(n,3n) α

86-Rn-203

Radionuclide Production Cross Section

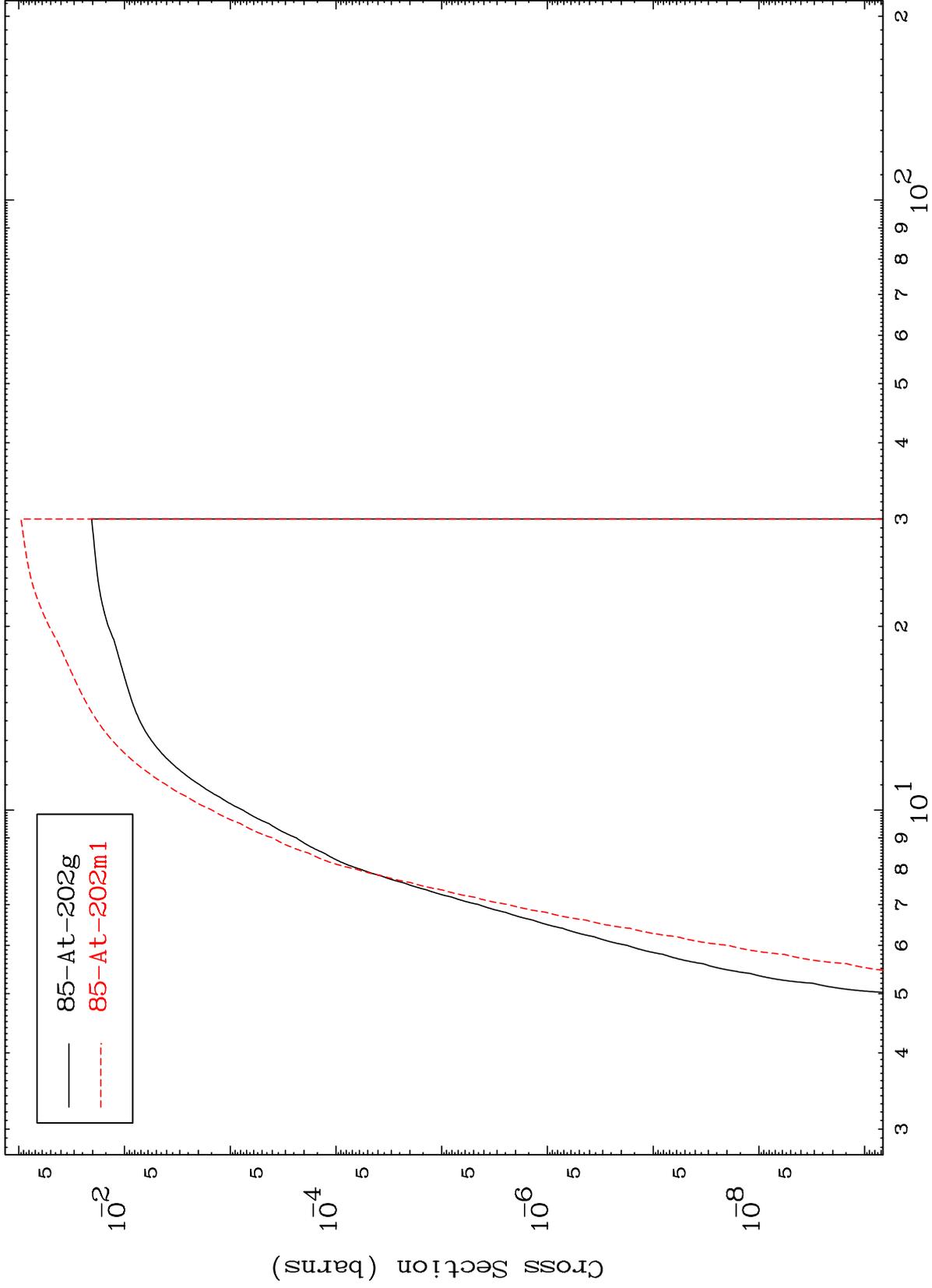


MAT 8601

(n,n') p

86-Rn-203

Radionuclide Production Cross Section



92

Incident Energy (MeV)

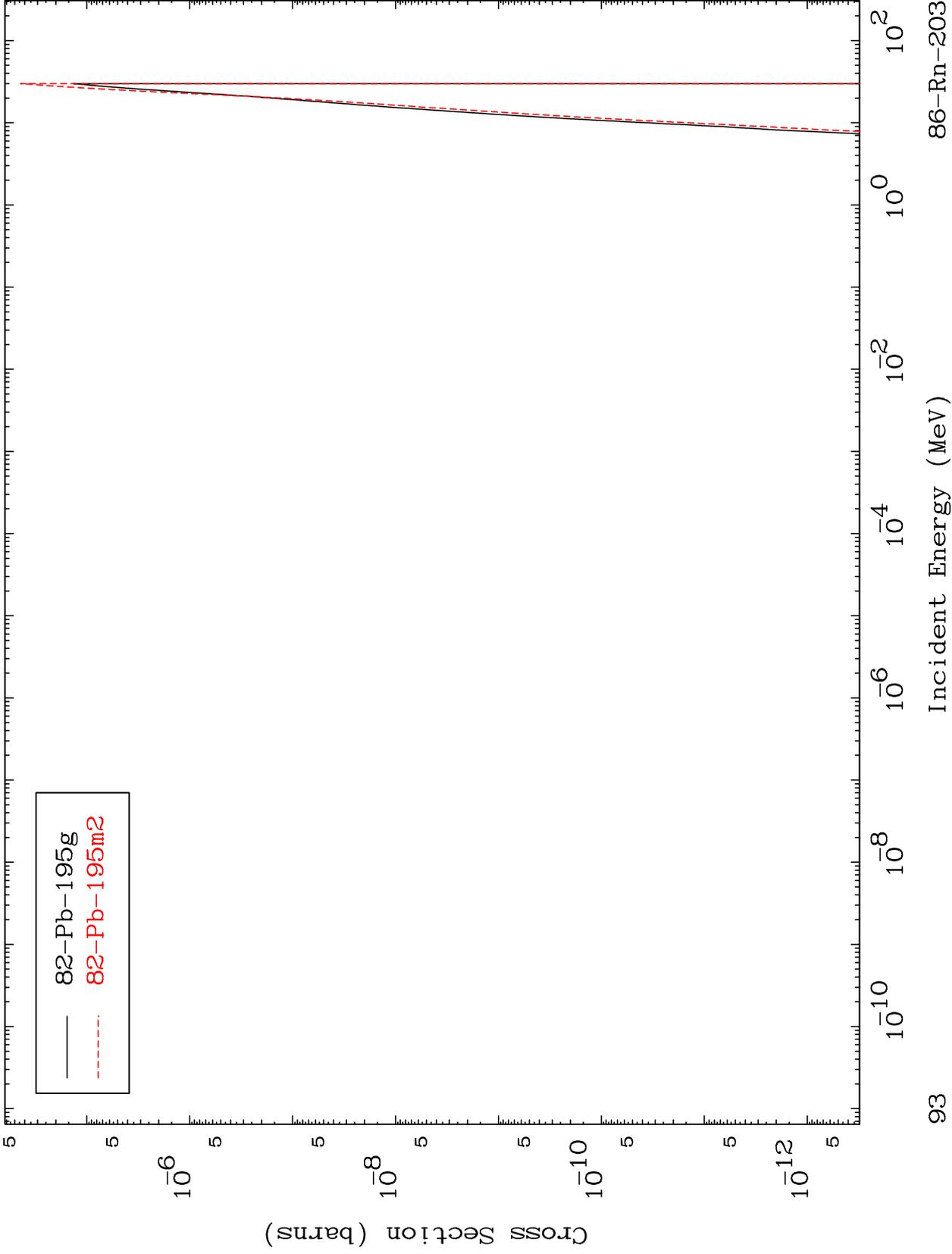
86-Rn-203

MAT 8601

(n,n') 2 α

86-Rn-203

Radionuclide Production Cross Section

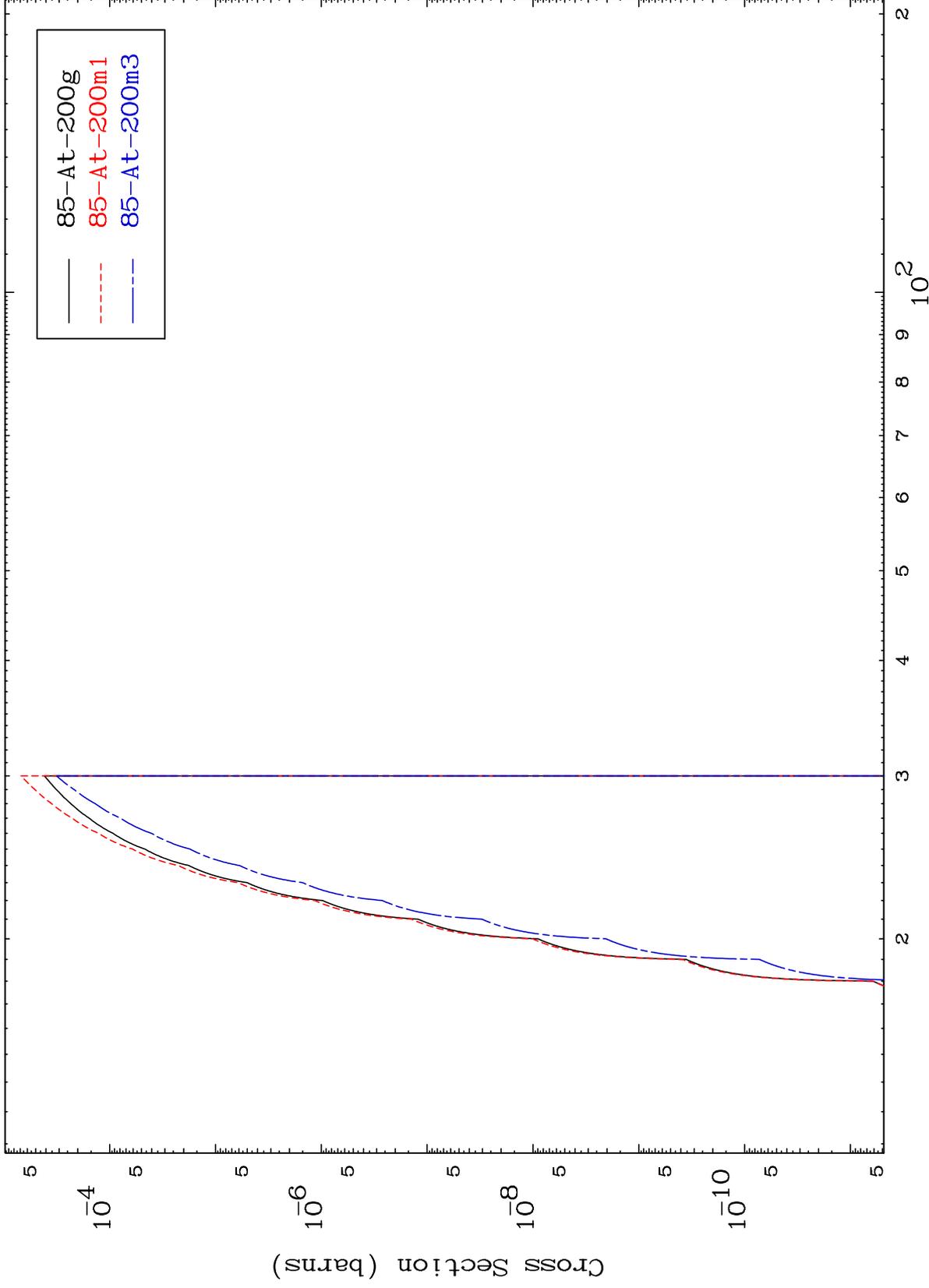


MAT 8601

(n,n') t

86-Rn-203

Radionuclide Production Cross Section



94

Incident Energy (MeV)

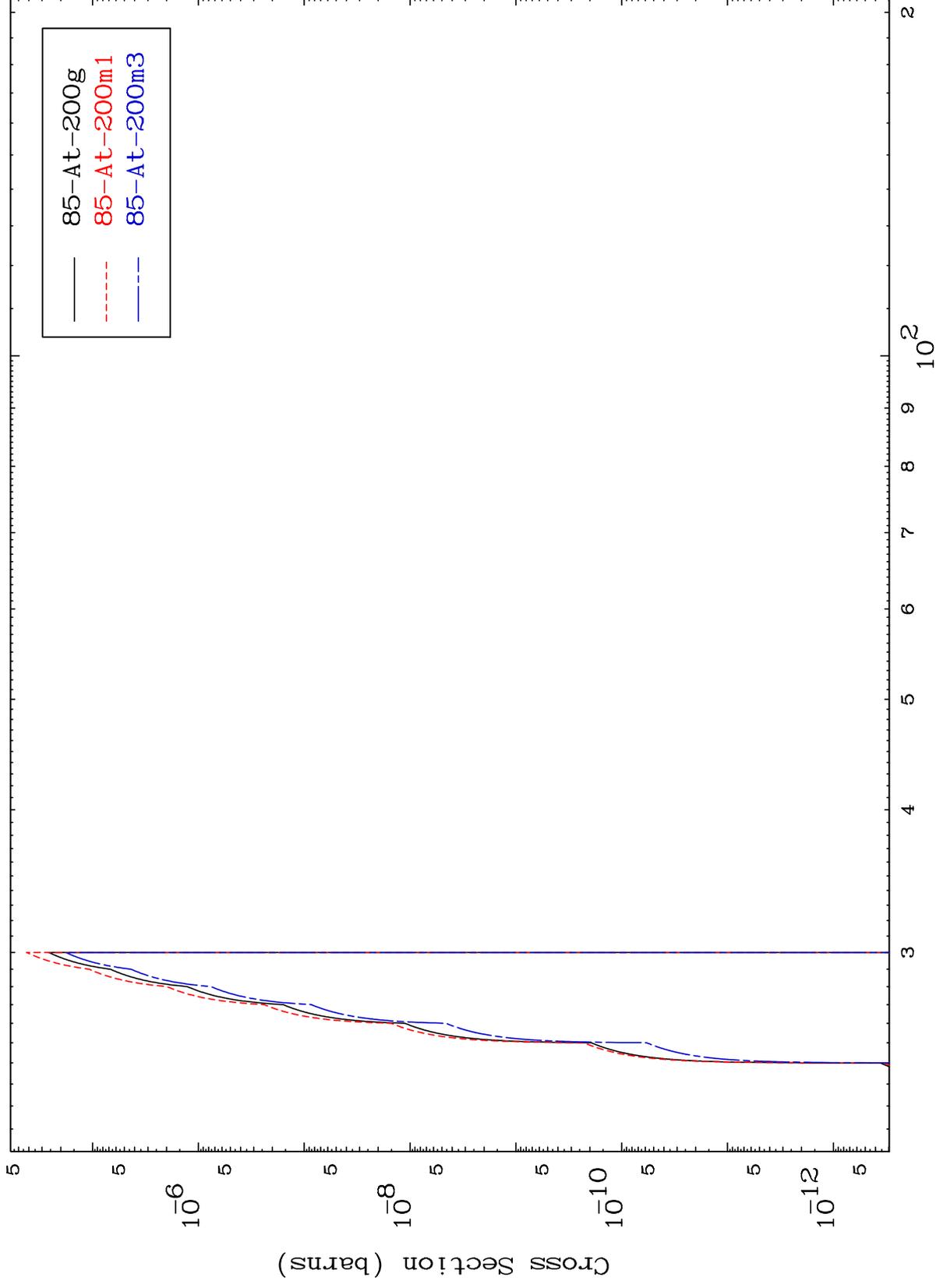
86-Rn-203

MAT 8601

(n,3n) p

86-Rn-203

Radionuclide Production Cross Section

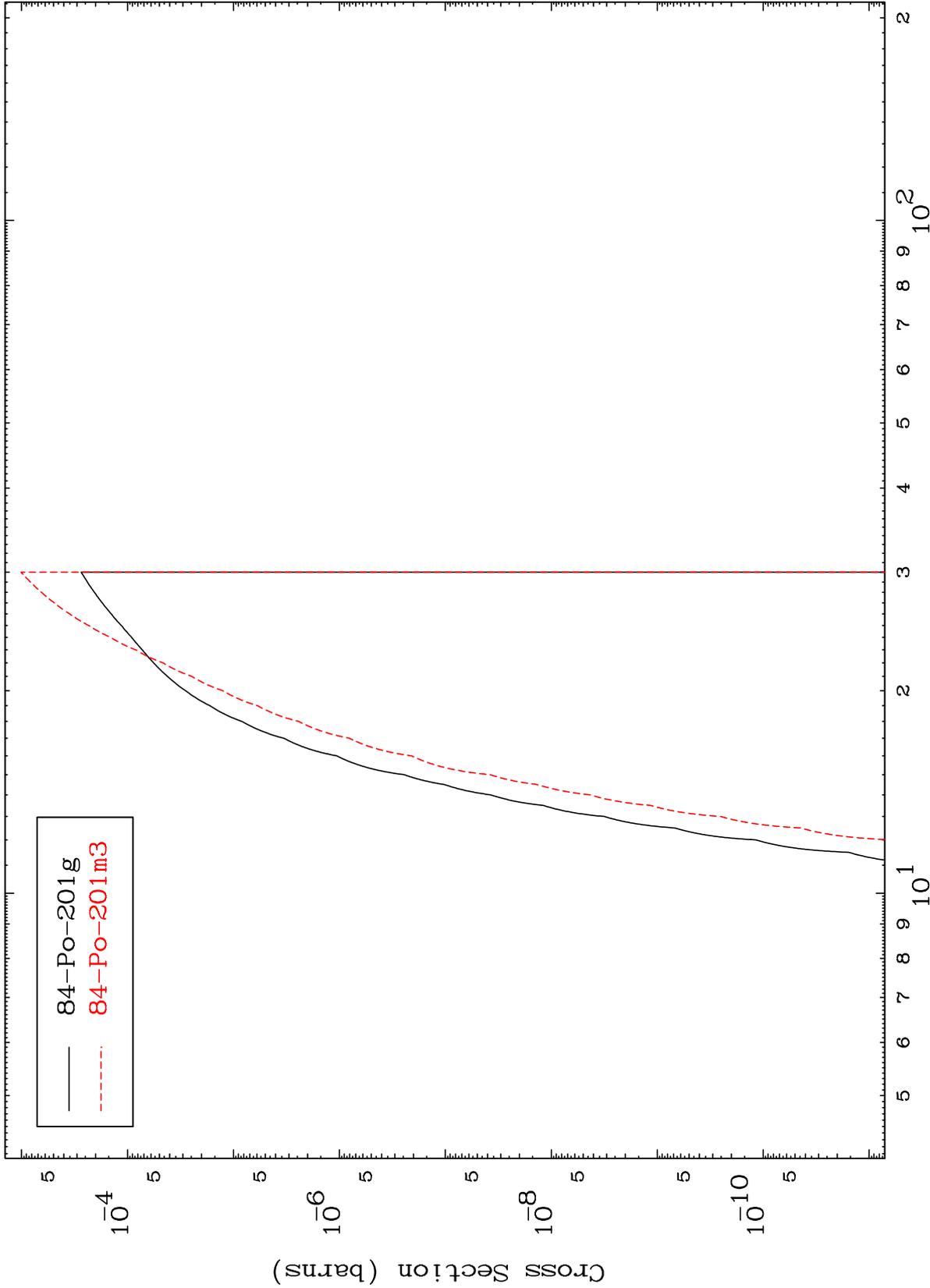


95

Incident Energy (MeV)

86-Rn-203

Radionuclide Production Cross Section



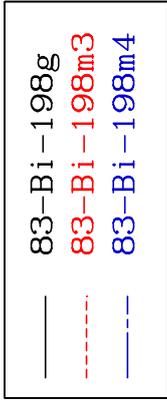
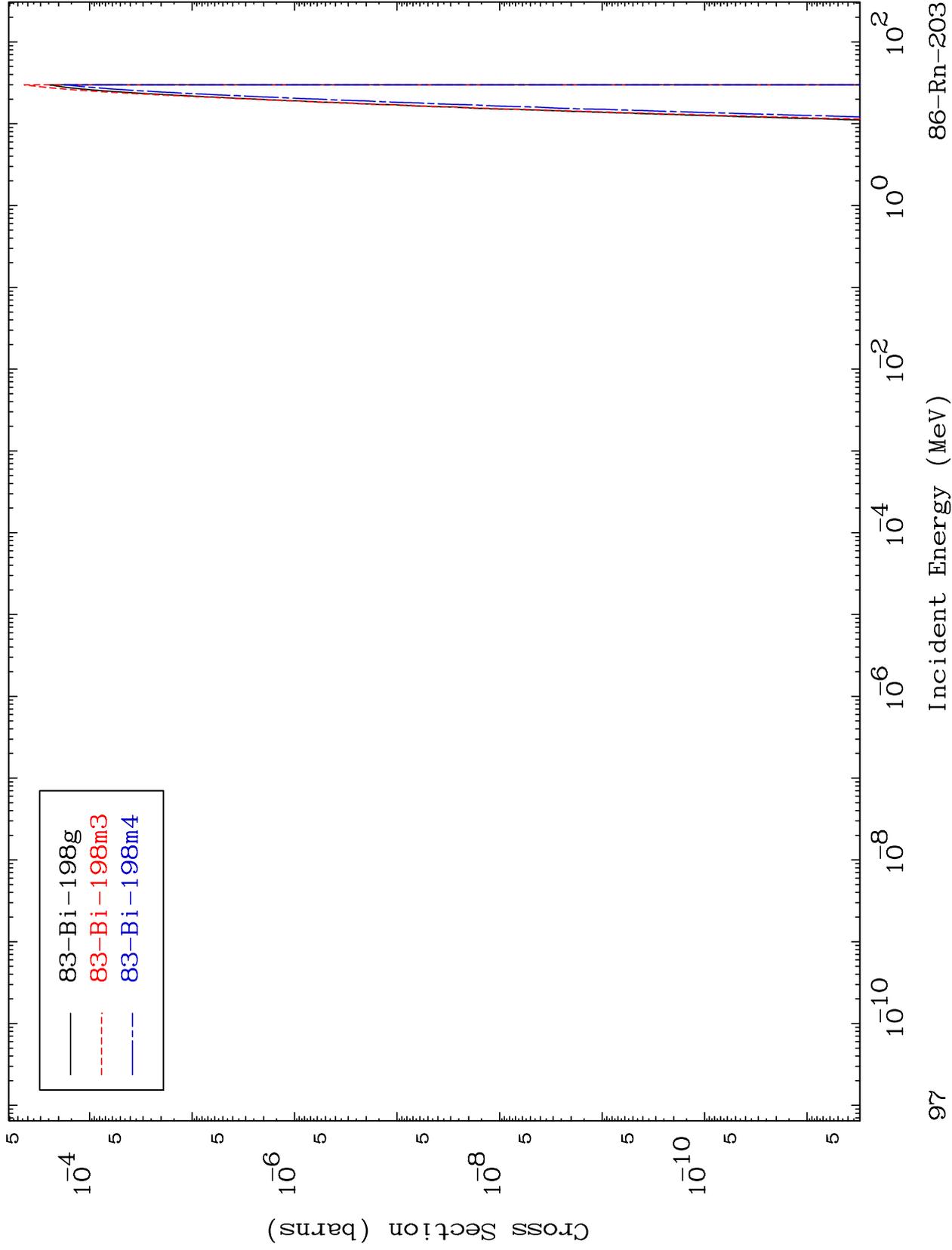
84-Po-201g
84-Po-201m3

MAT 8601

(n,n') p α

86-Rn-203

Radionuclide Production Cross Section



97

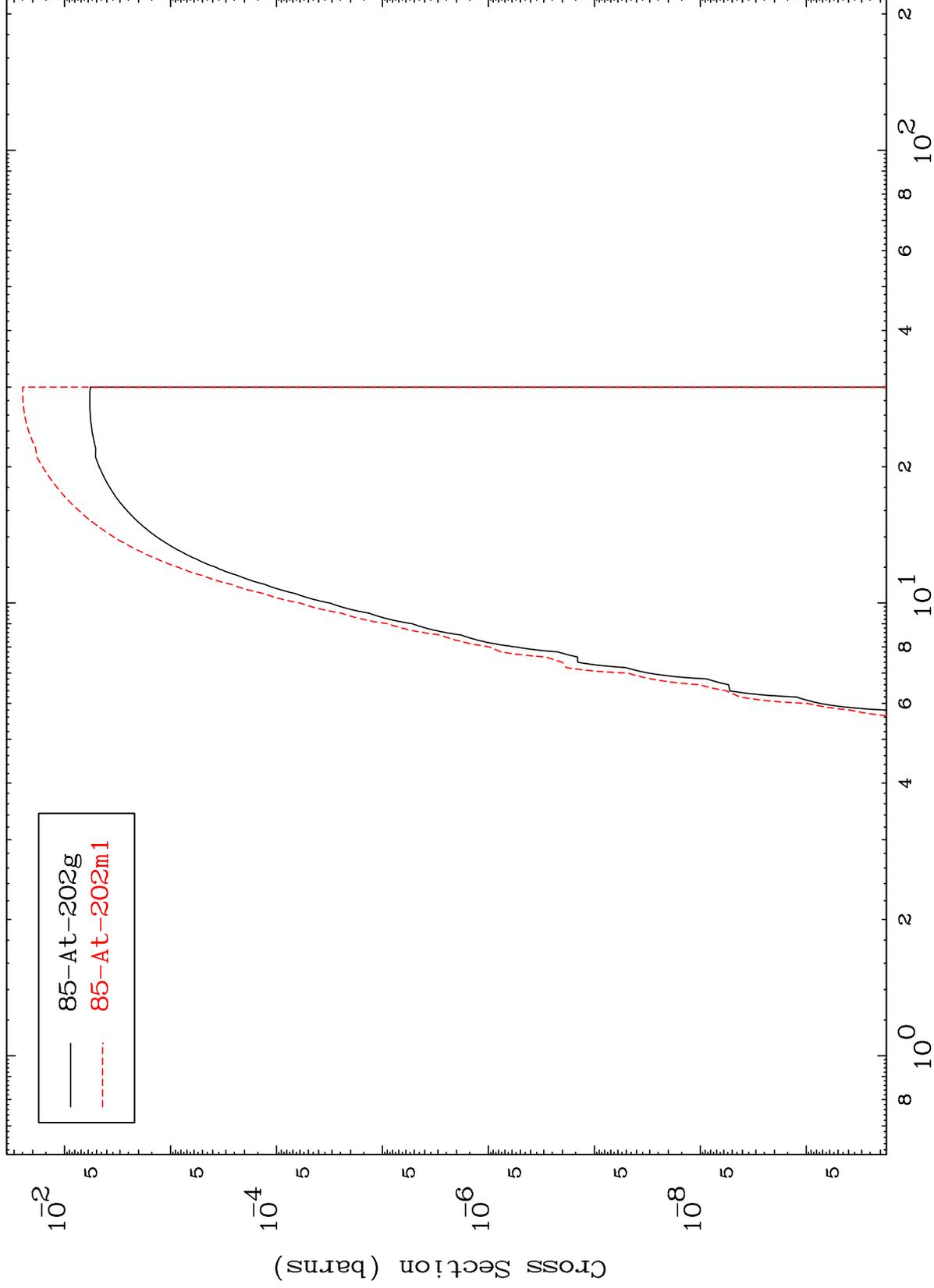
Incident Energy (MeV)

86-Rn-203

MAT 8601

86-Rn-203

(n,d)
Radionuclide Production Cross Section



98

86-Rn-203

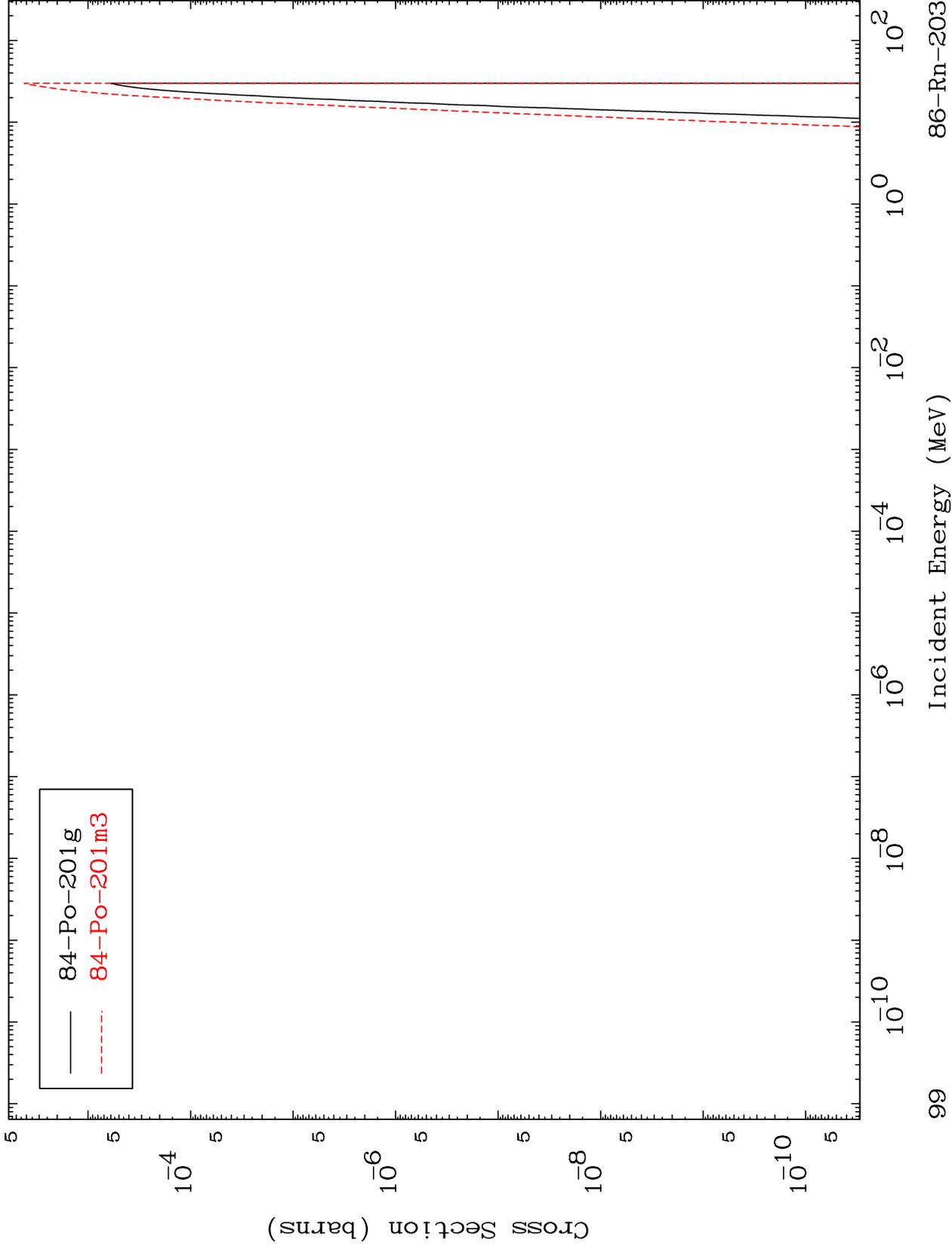
Incident Energy (MeV)

MAT 8601

(n,He-3)

86-Rn-203

Radionuclide Production Cross Section

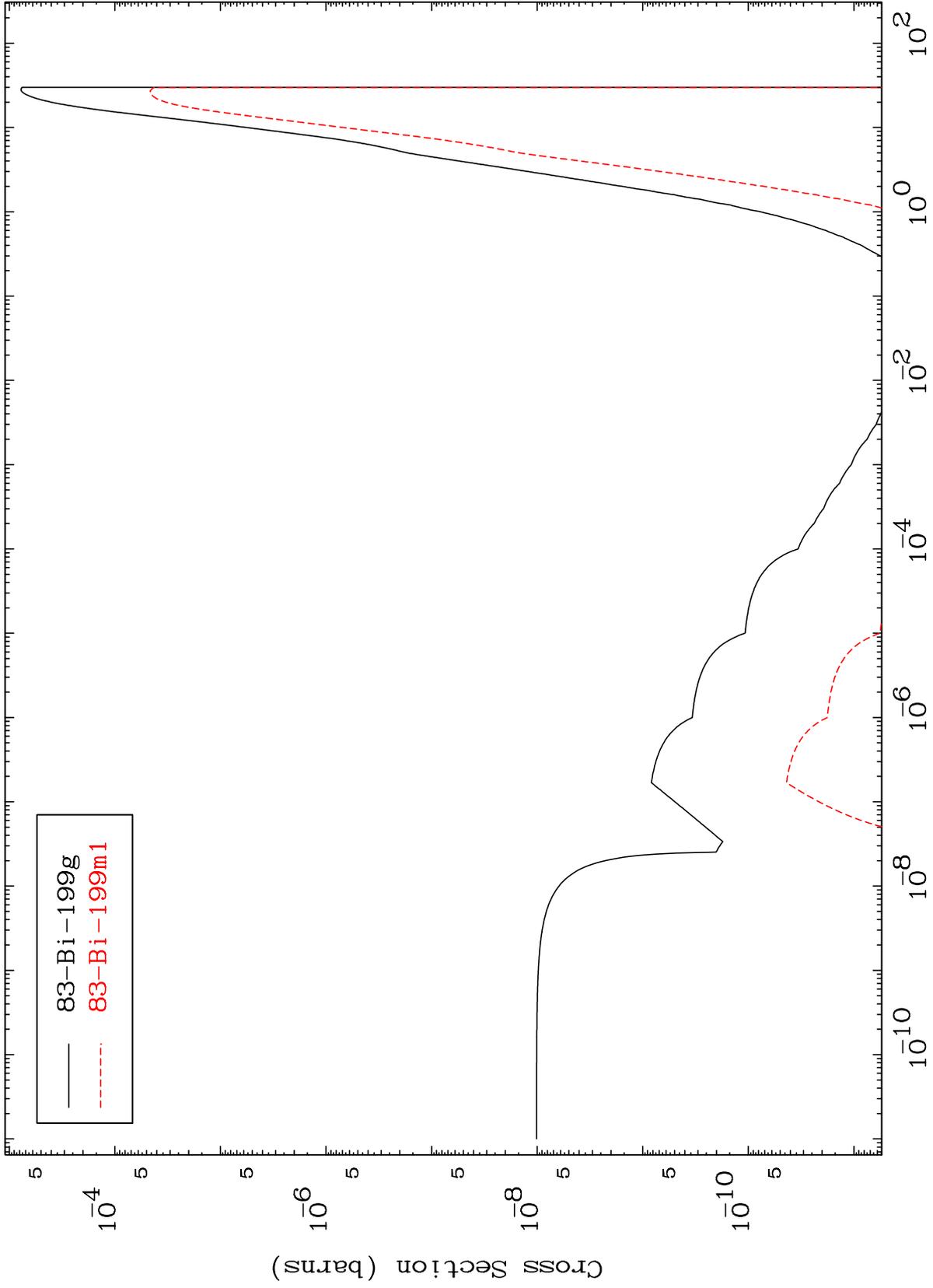


MAT 8601

(n,p) α

86-Rn-203

Radionuclide Production Cross Section



100

Incident Energy (MeV)

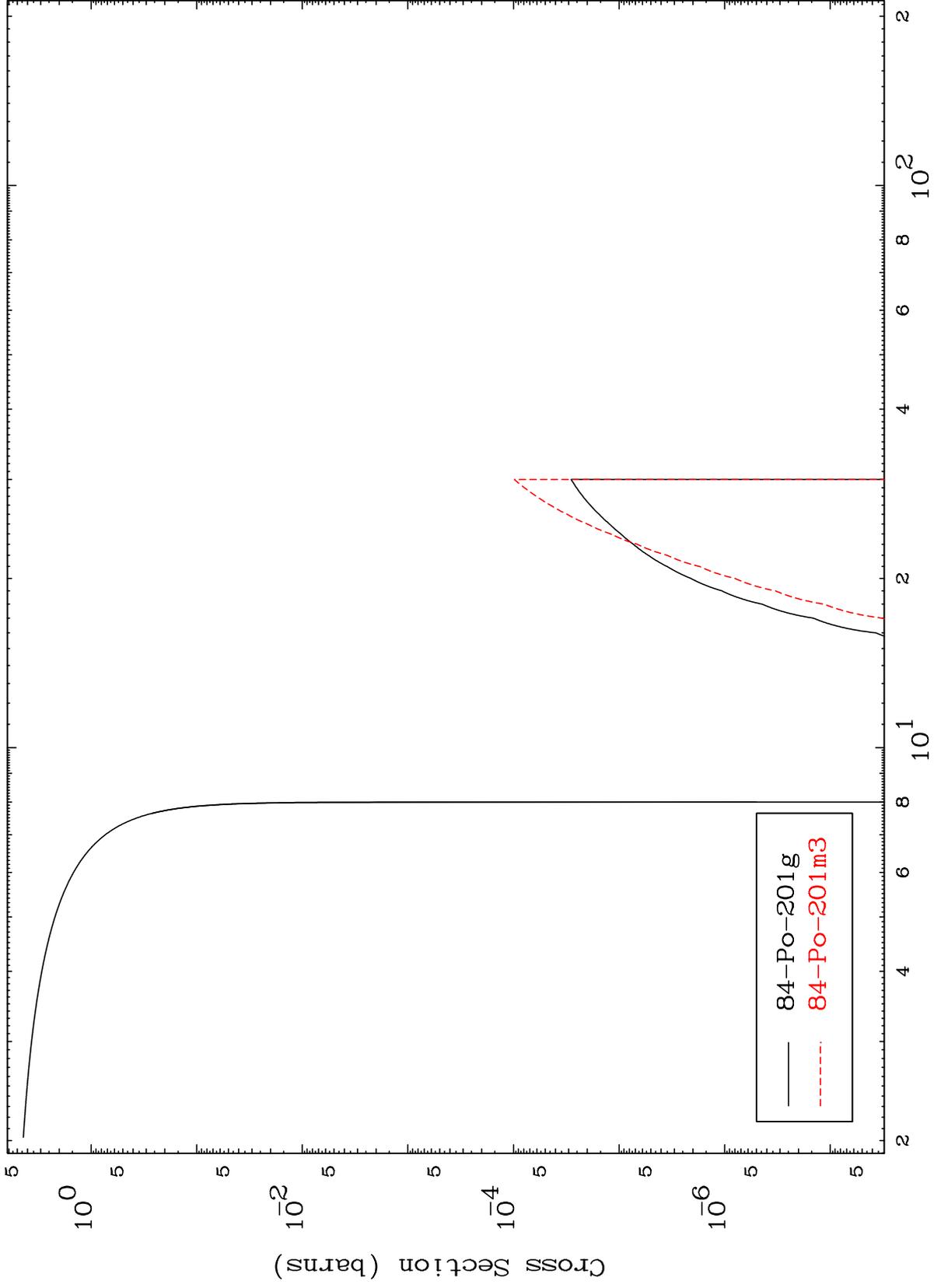
86-Rn-203

MAT 8601

(n,p) d

86-Rn-203

Radionuclide Production Cross Section



101

Incident Energy (MeV)

86-Rn-203

MAT 8601

(n,d) α

86-Rn-203

Radionuclide Production Cross Section

