

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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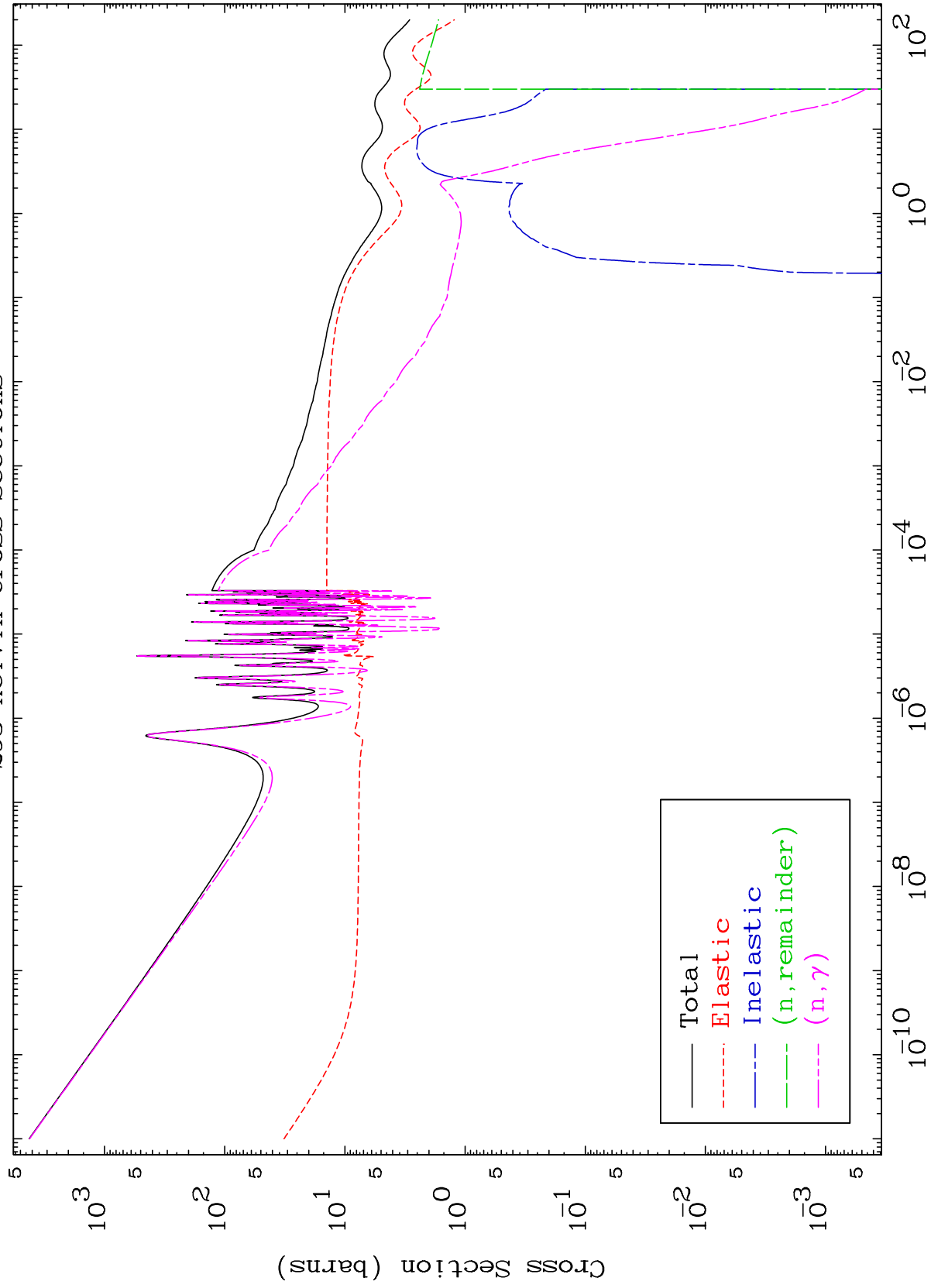
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8104

Major  
293 Kelvin Cross Sections

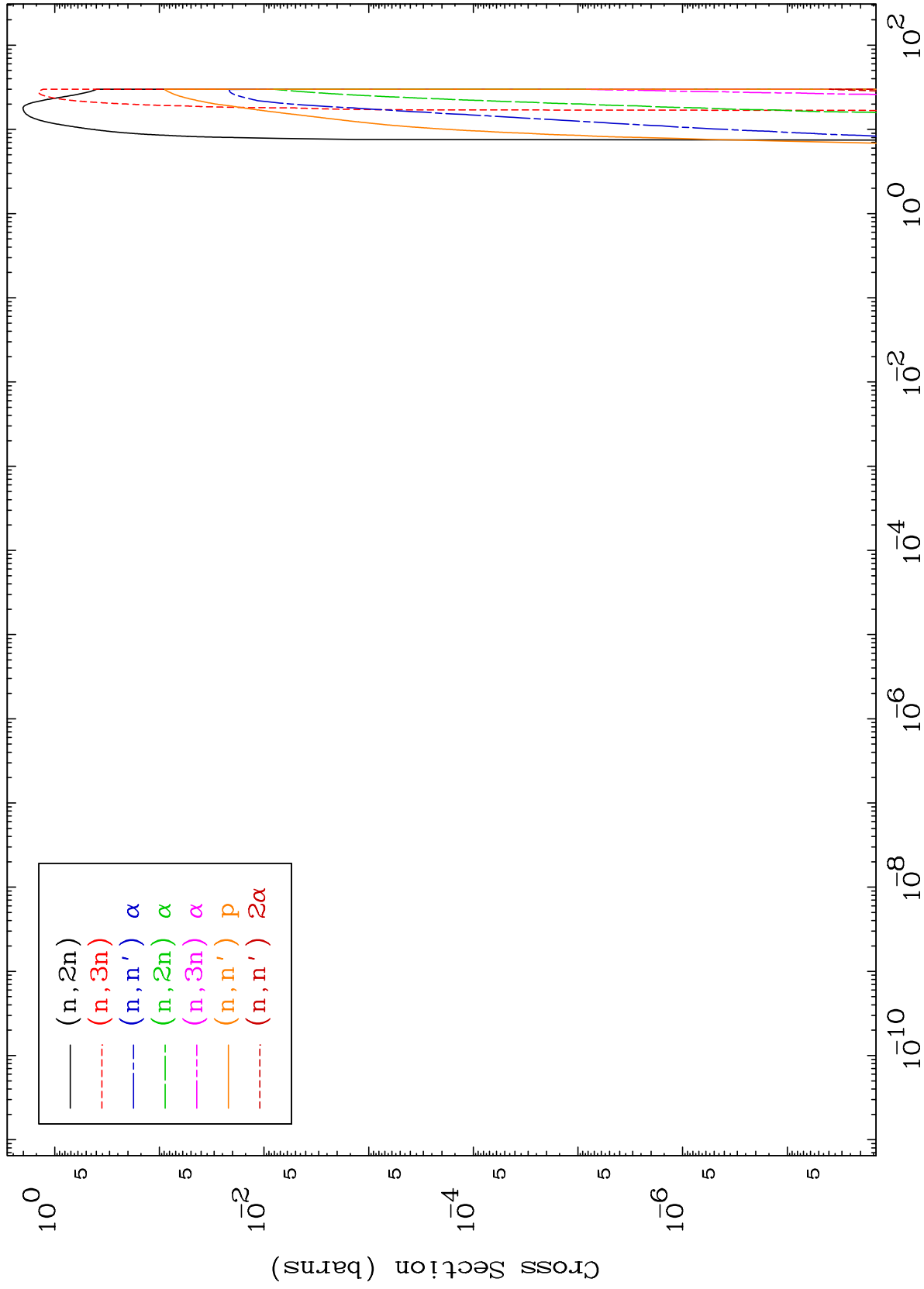
81-Tl-196



MAT 8104

Neutron Production  
293 Kelvin Cross Sections

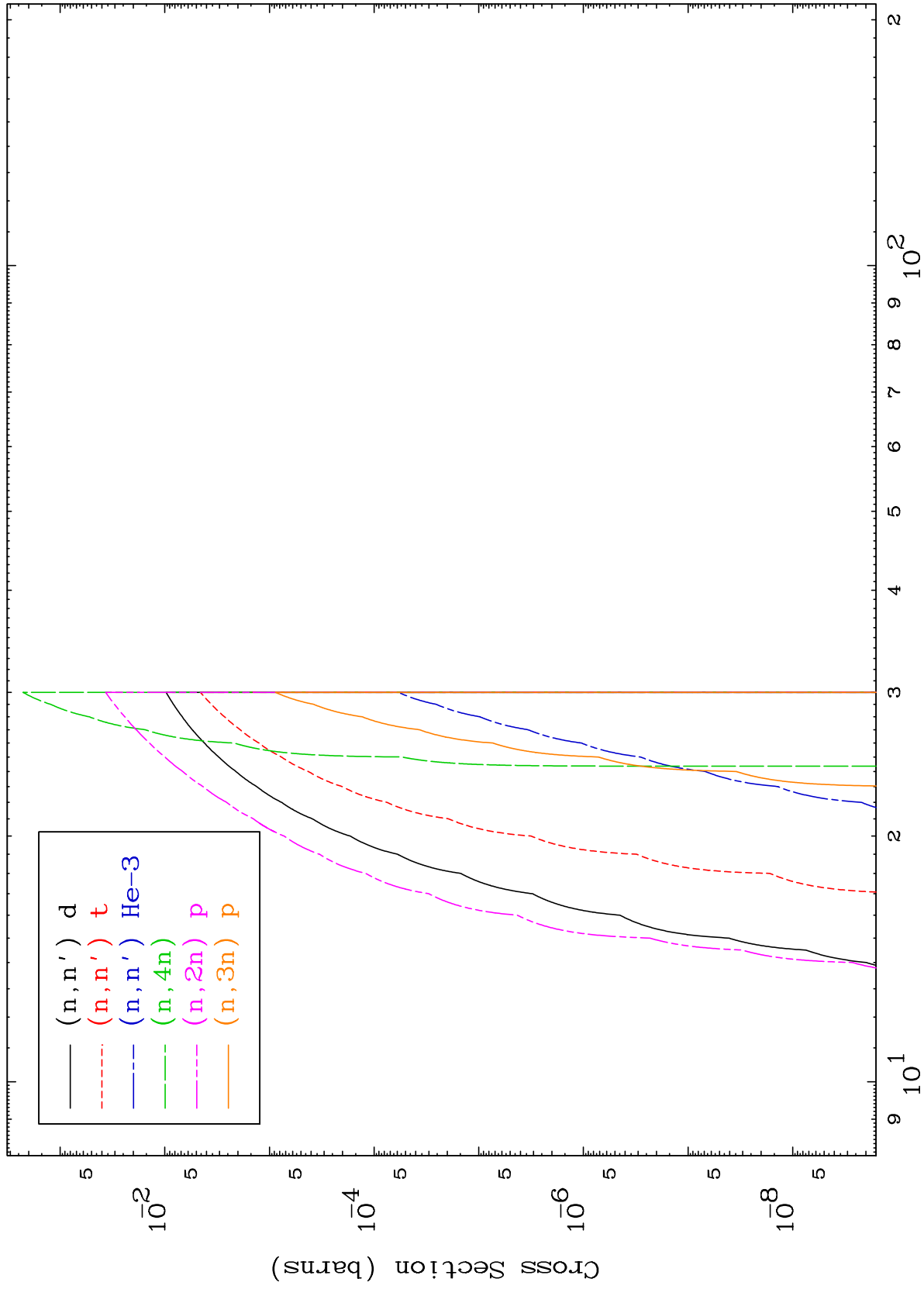
81-Tl-196



2

Incident Energy (MeV)

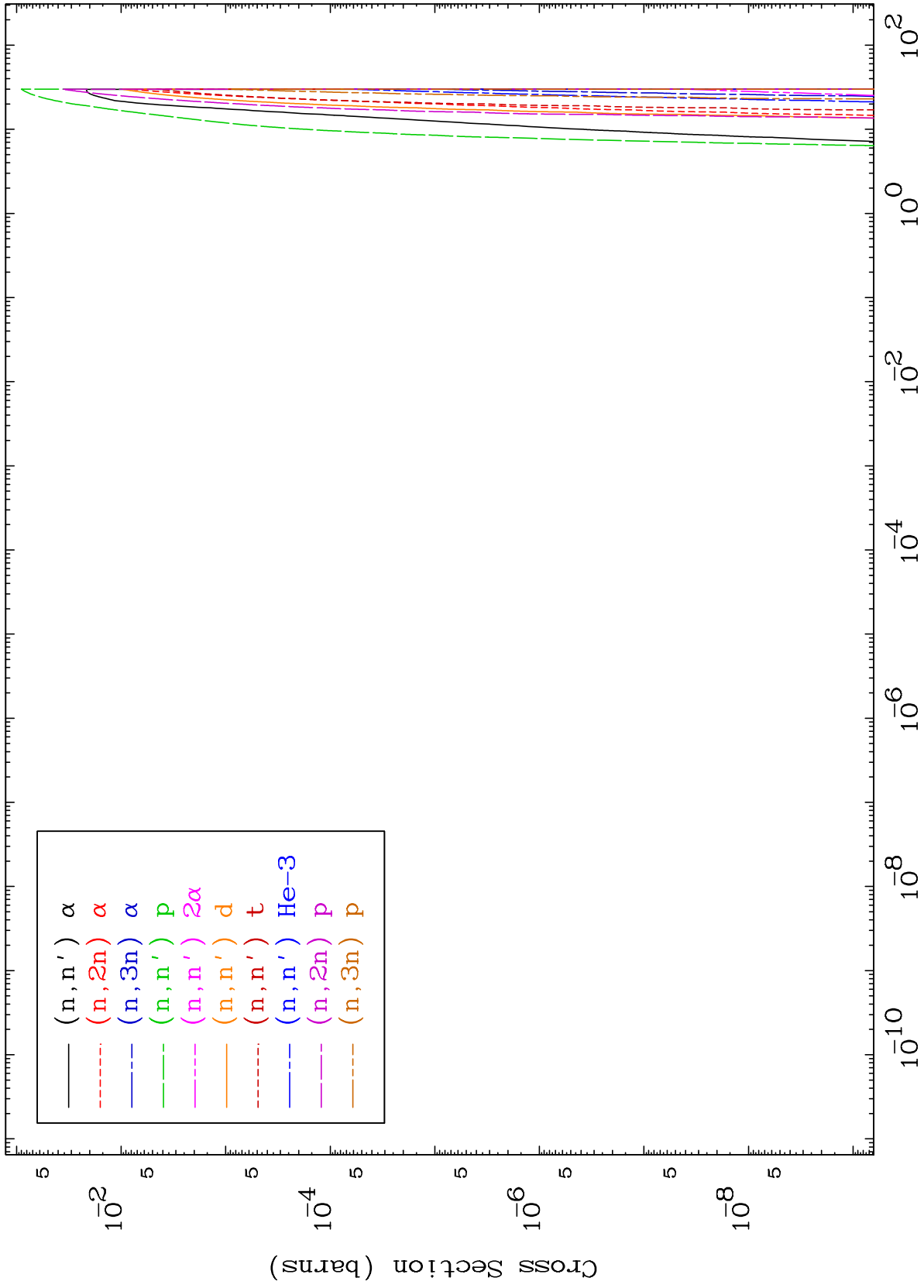
81-Tl-196



MAT 8104

293 Kelvin Cross Sections  
Charged Particle

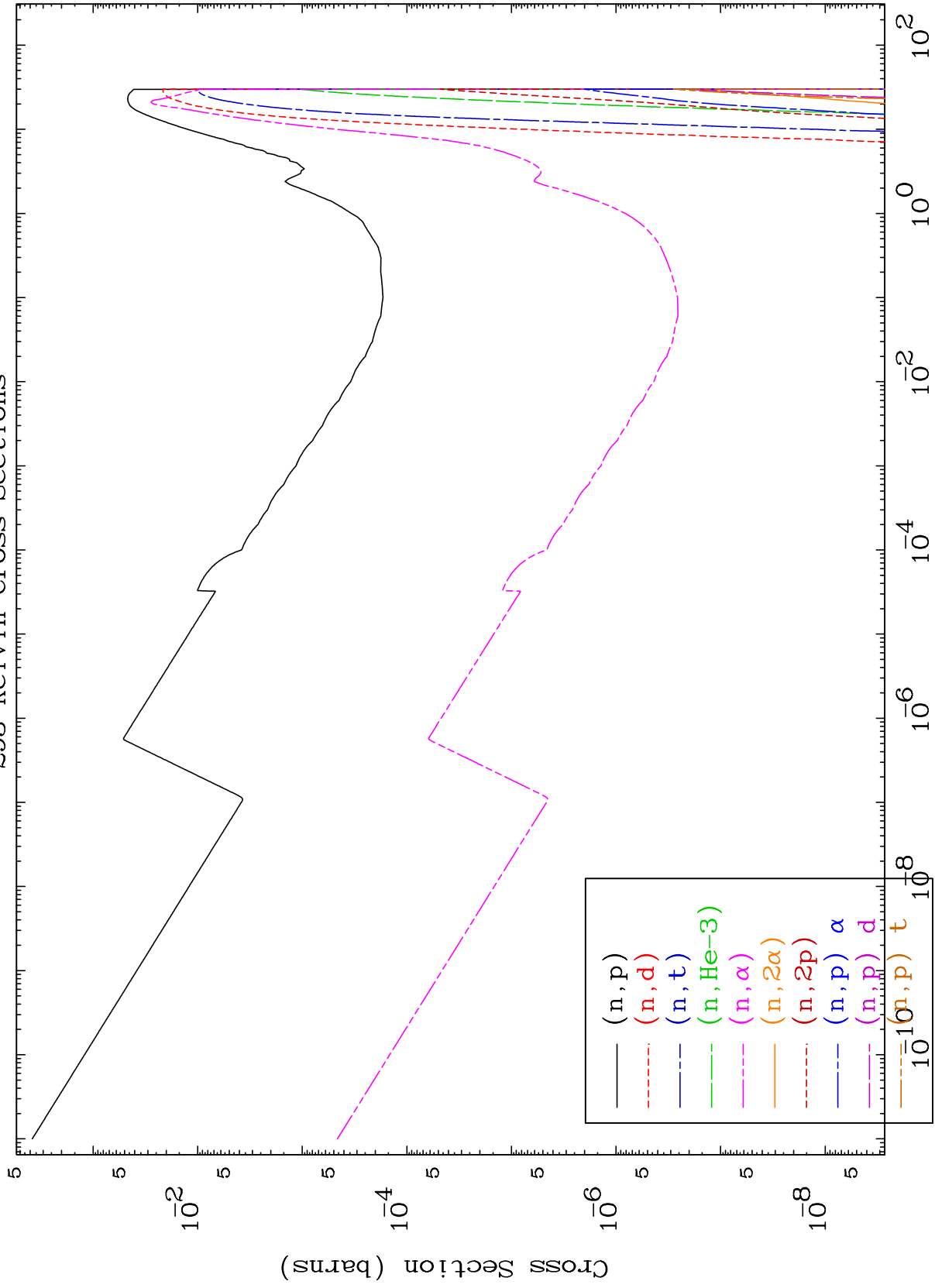
81-Tl-196



MAT 8104

293 Kelvin Cross Sections

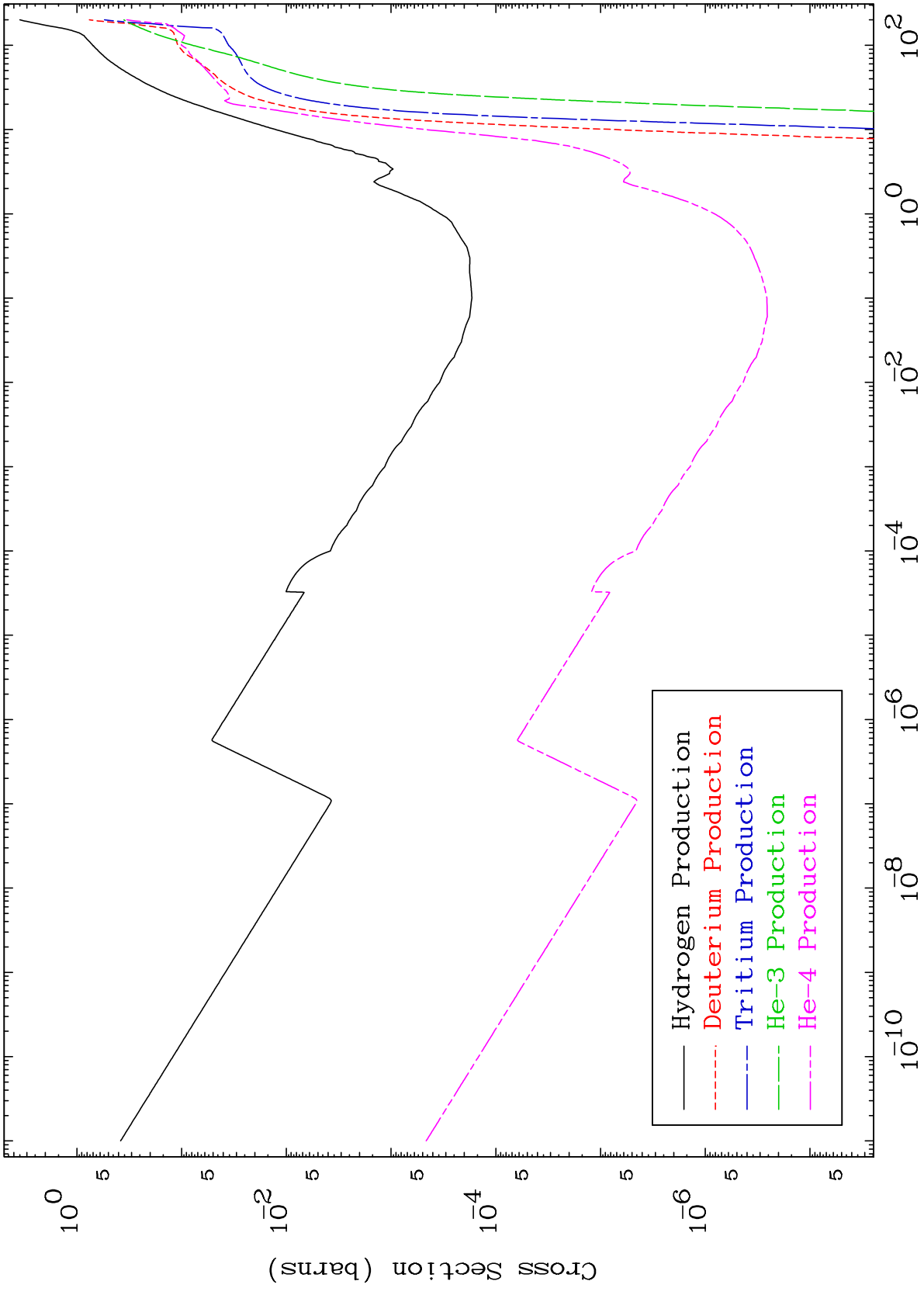
81-Tl-196



5

Incident Energy (MeV)

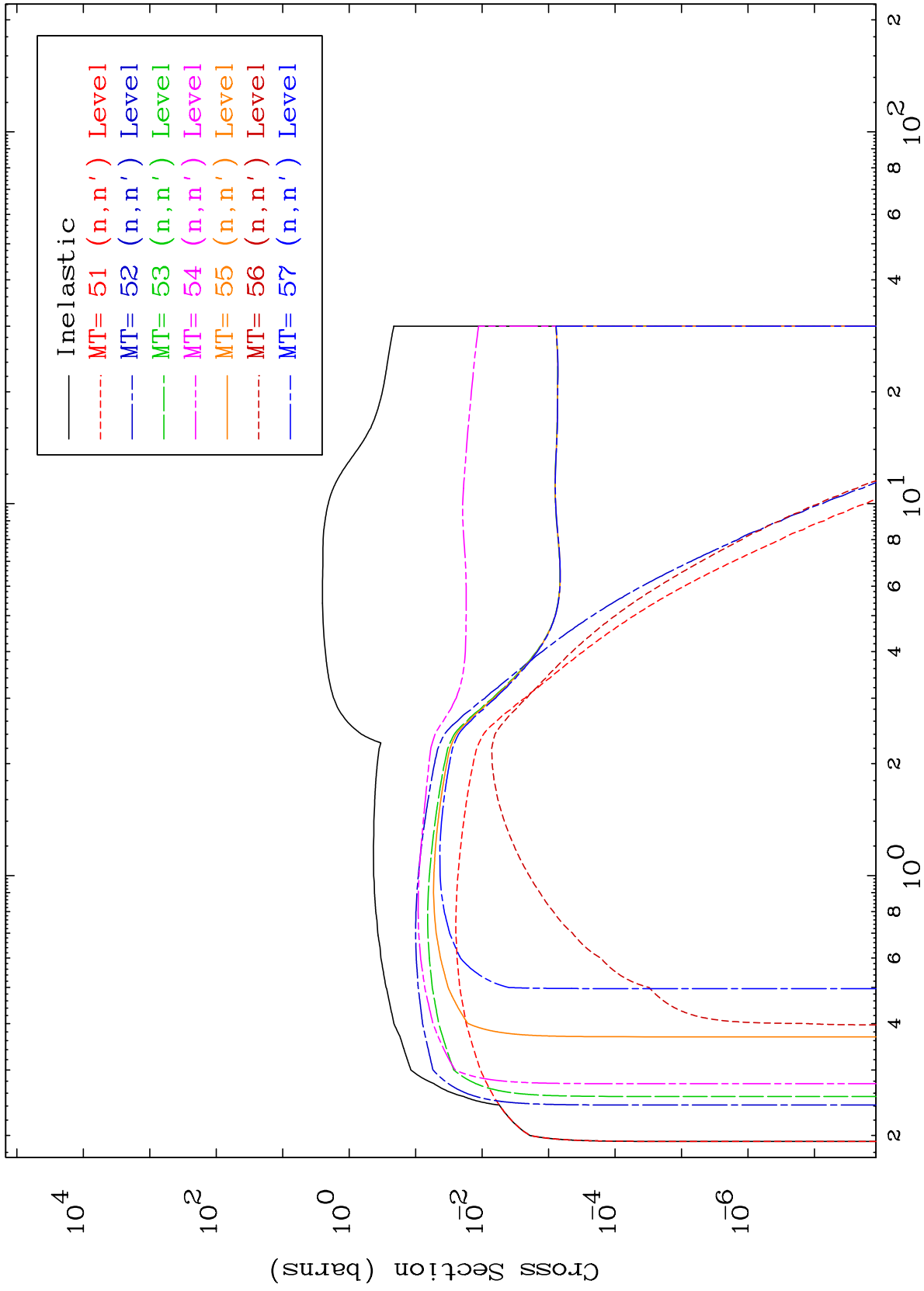
81-Tl-196



MAT 8104

(n,n') Level  
293 Kelvin Cross Sections

81-T1-196



7

Incident Energy (MeV)

81-T1-196

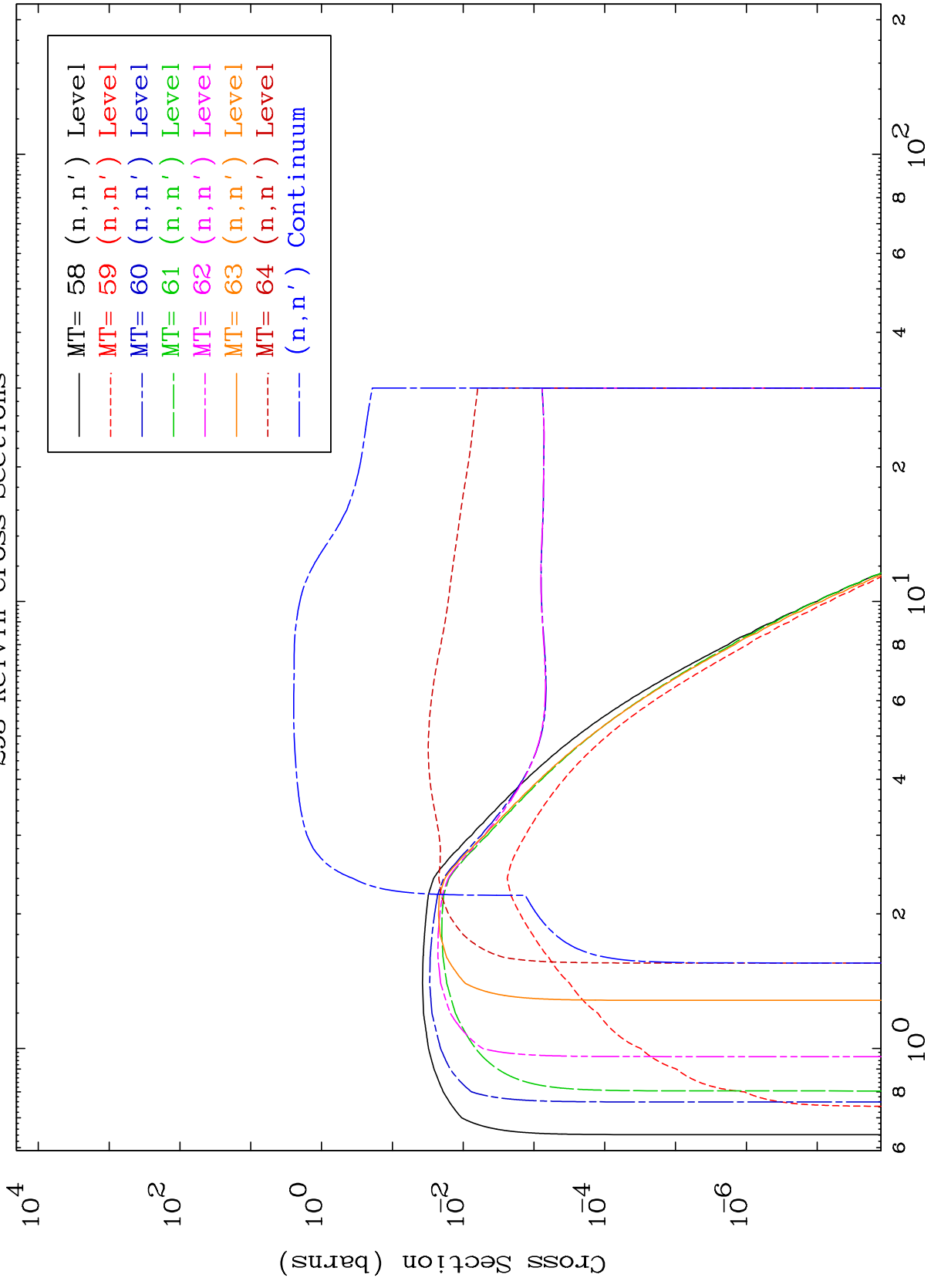


MAT 8104

(n,n') Level

81-Tl-196

293 Kelvin Cross Sections



8

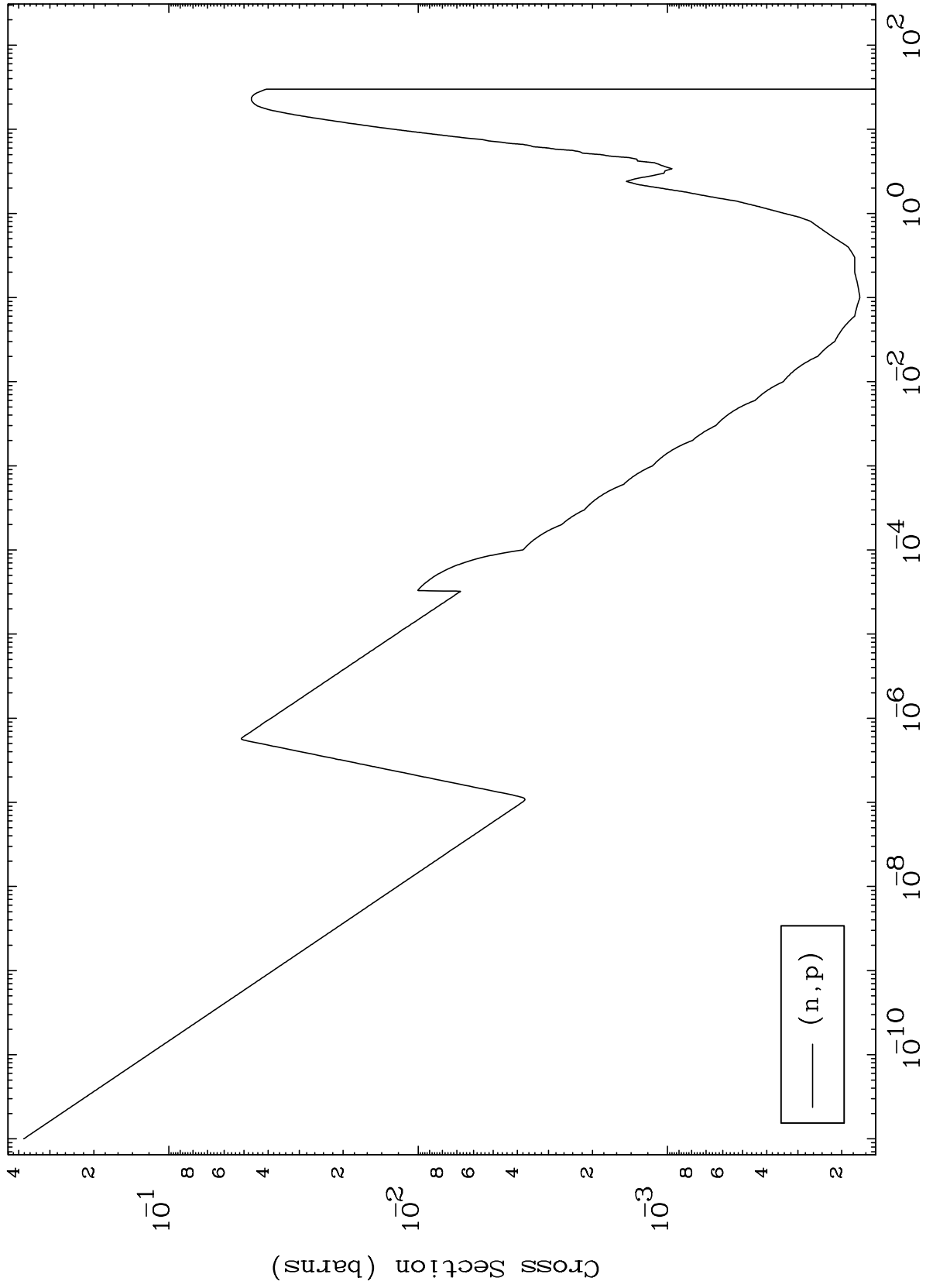
Incident Energy (MeV)

81-Tl-196

MAT 8104

(n,p) Levels  
293 Kelvin Cross Sections

81-Tl-196

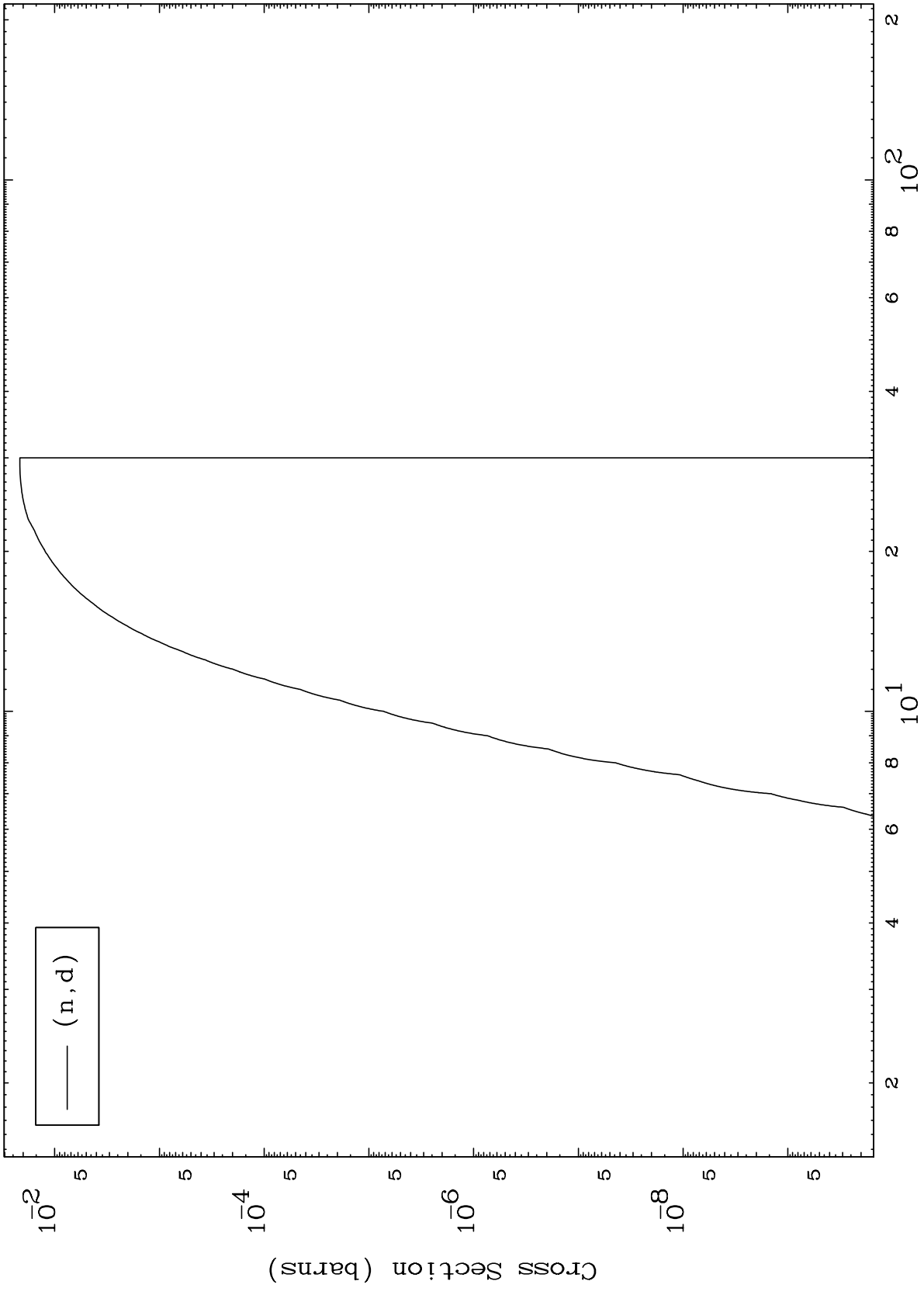


81-Tl-196

MAT 8104

(n,d) Levels  
293 Kelvin Cross Sections

81-Tl-196



10

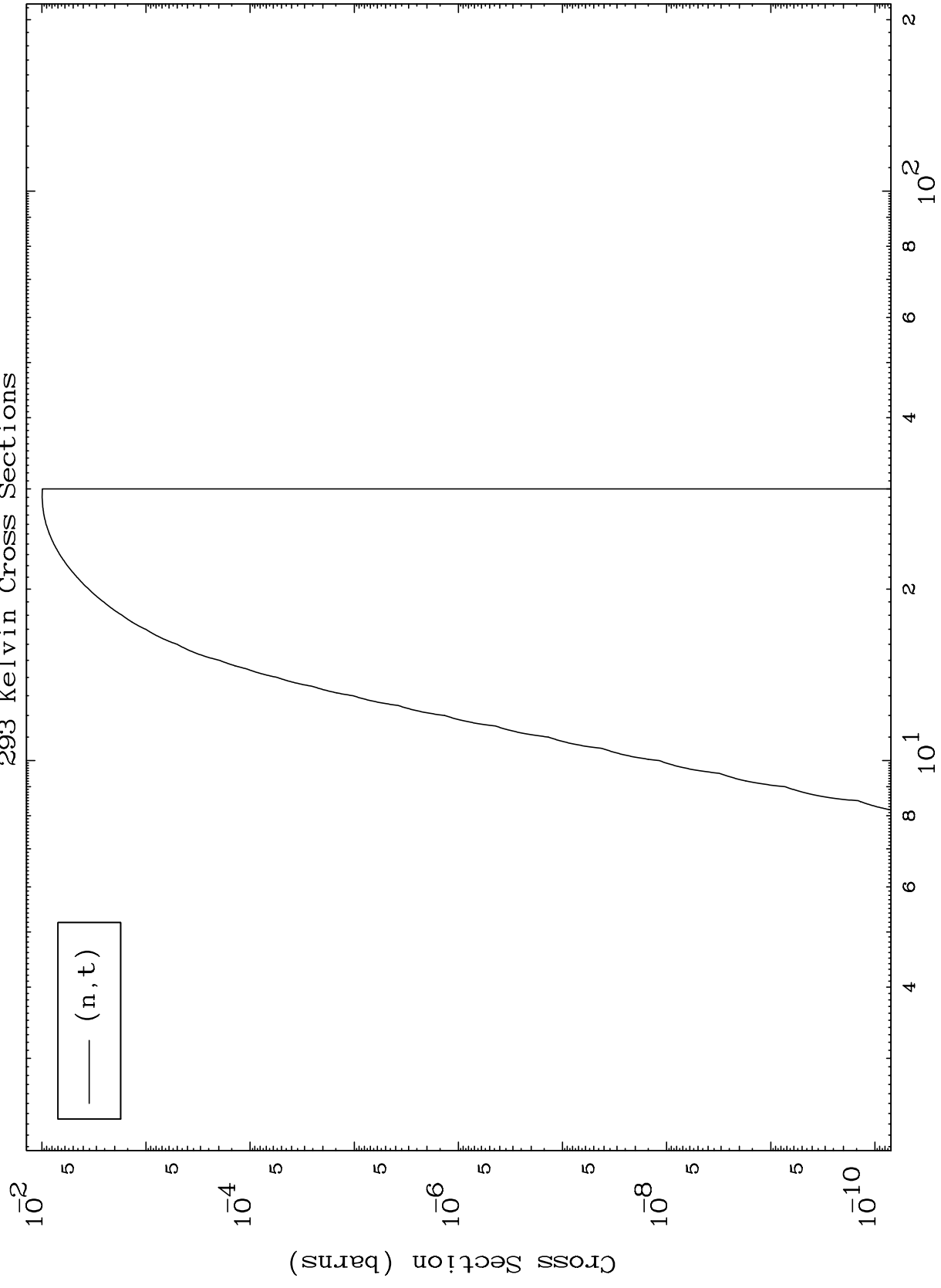
Incident Energy (MeV)

81-Tl-196

MAT 8104

(n,t) Levels  
293 Kelvin Cross Sections

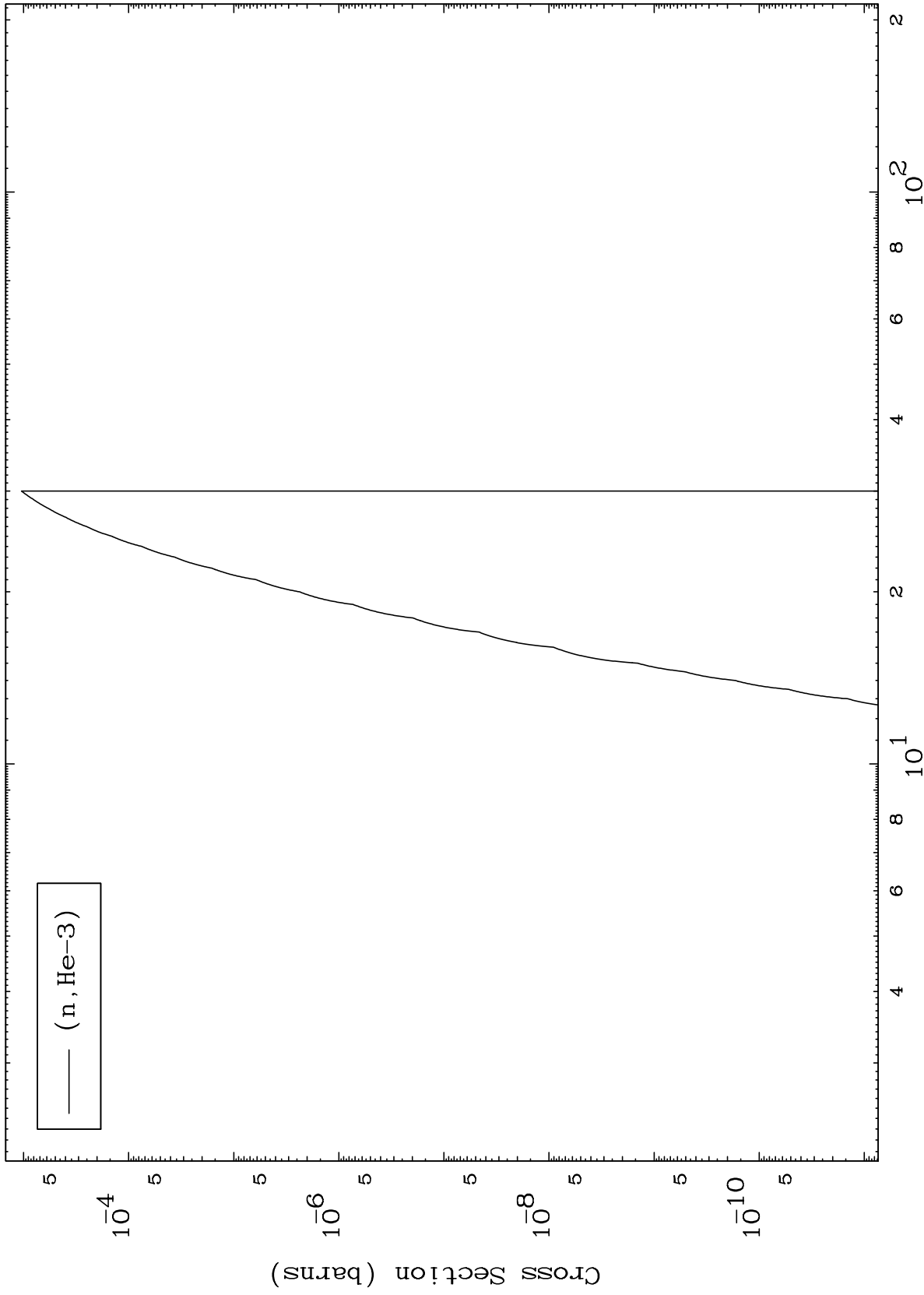
81-T1-196



MAT 8104

(n,He3) Levels  
293 Kelvin Cross Sections

81-Tl-196



12

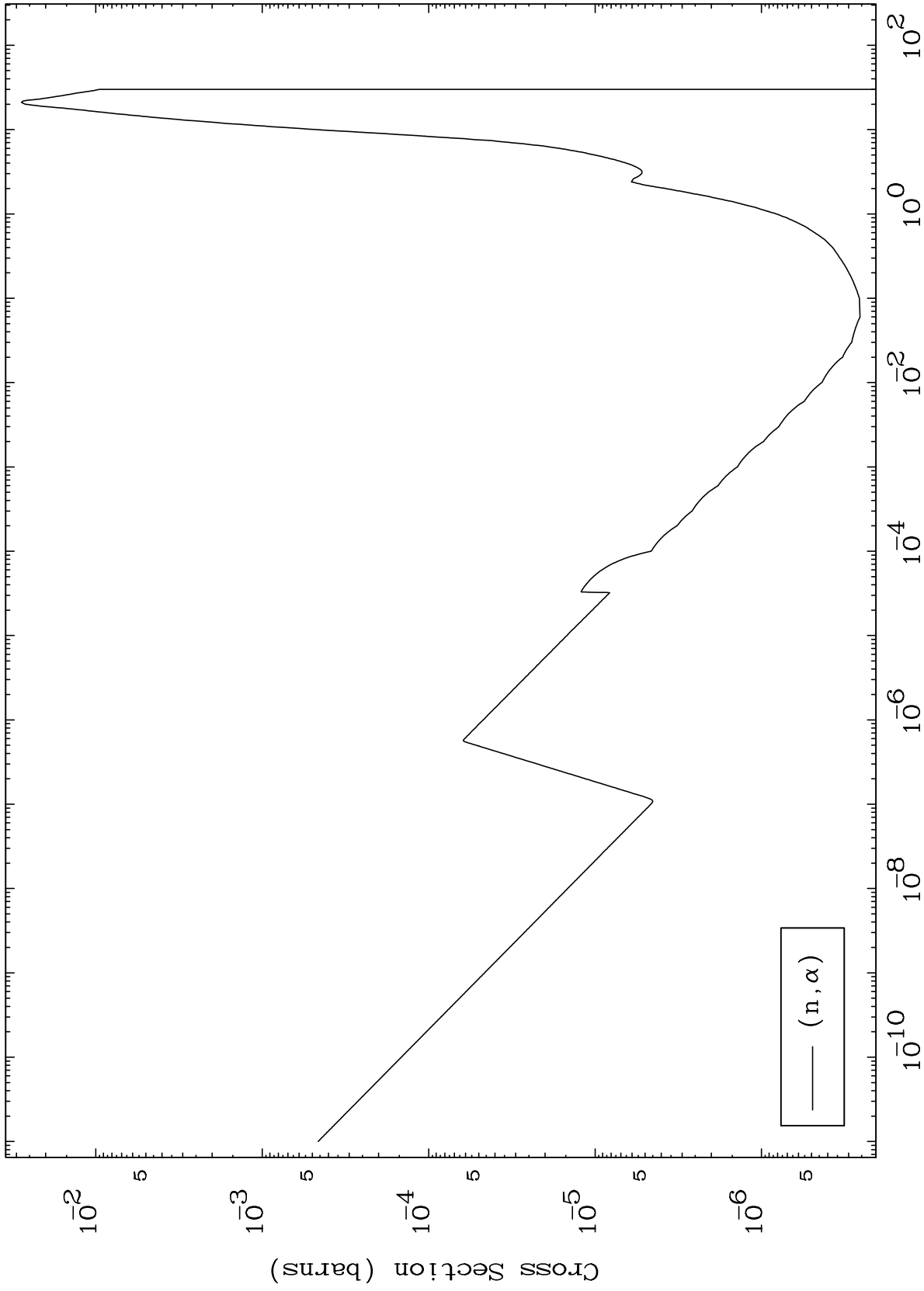
Incident Energy (MeV)

81-Tl-196

MAT 8104

(n,α) Levels  
293 Kelvin Cross Sections

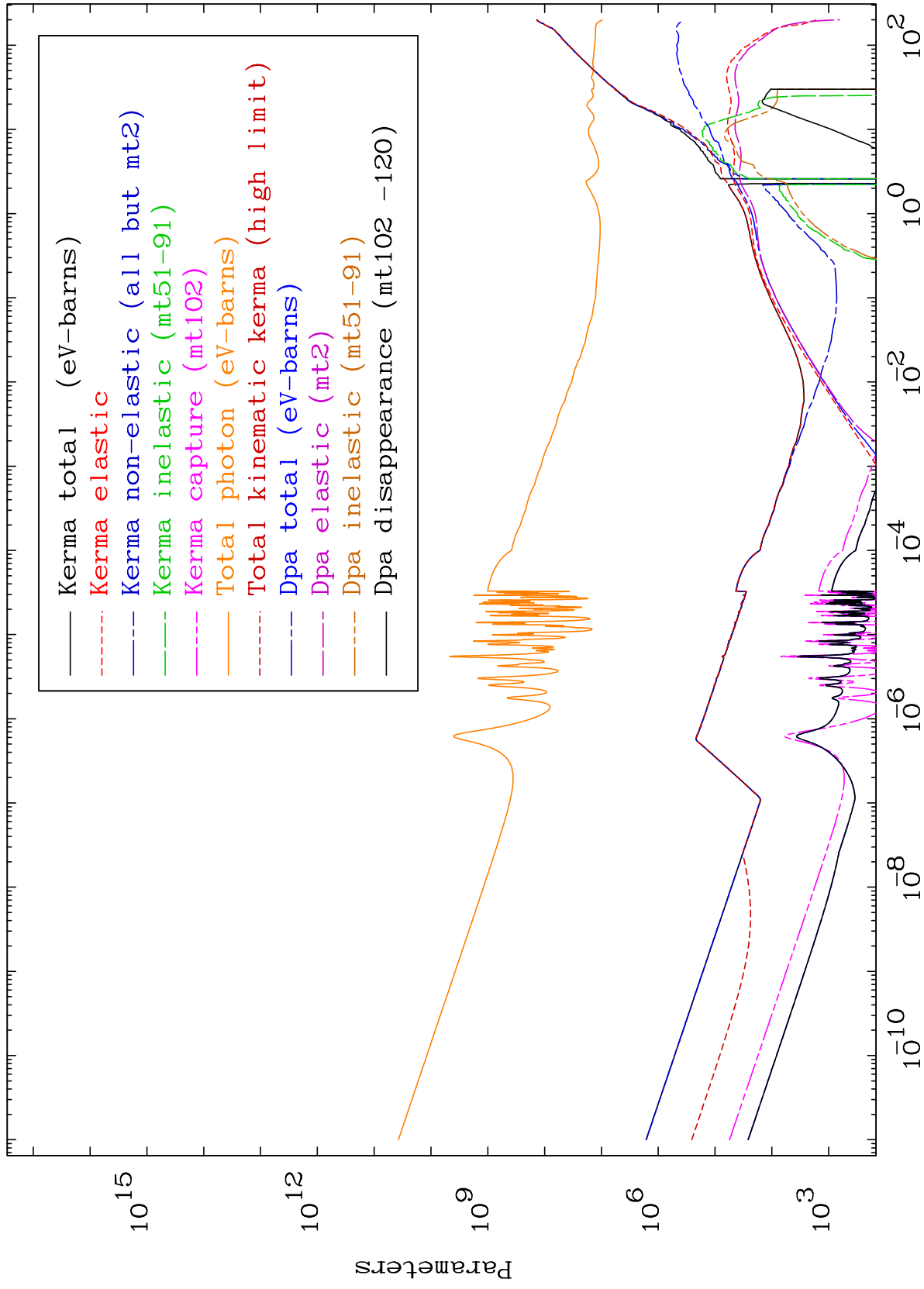
81-Tl-196



13

Incident Energy (MeV)

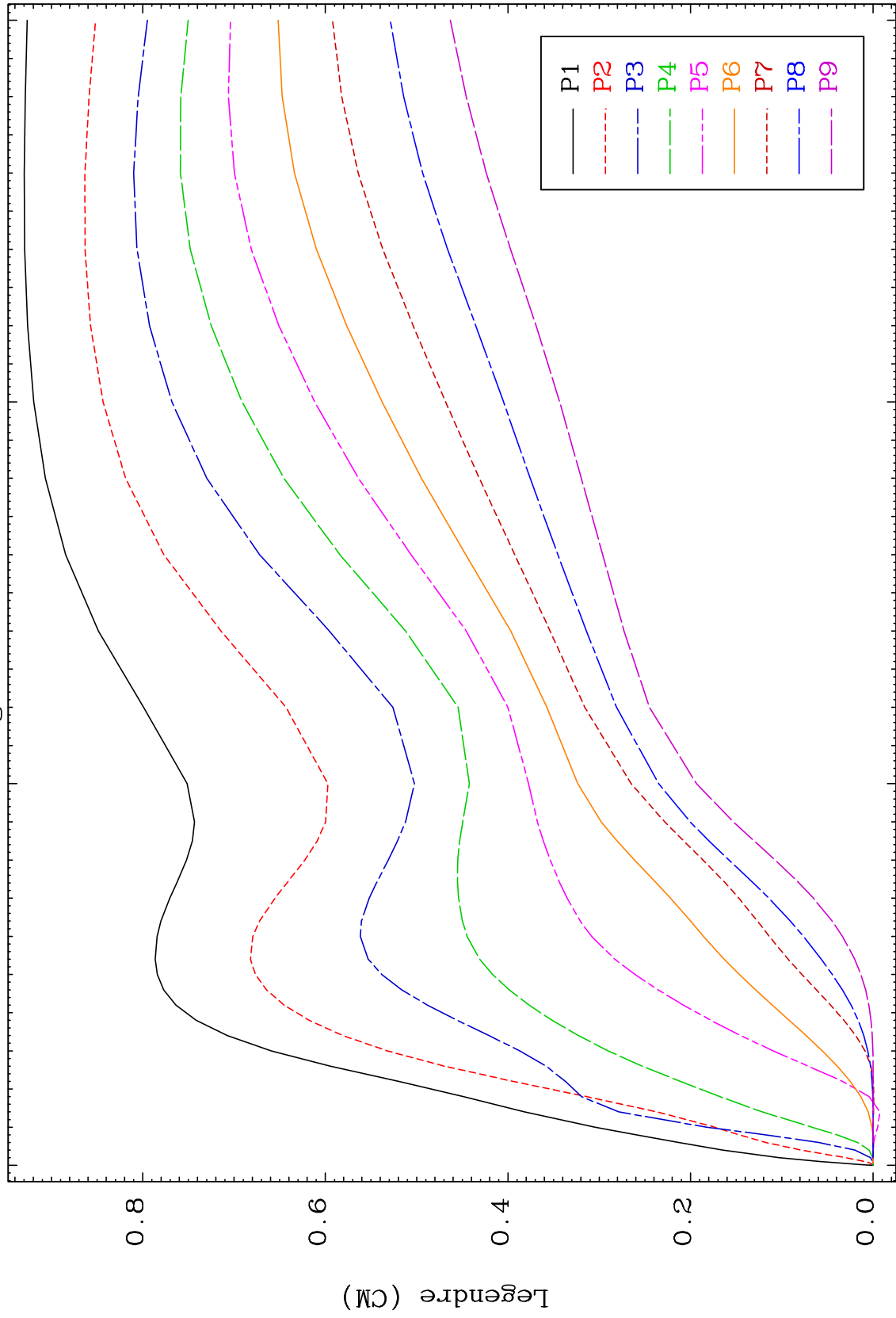
81-Tl-196



MAT 8104

Elastic Legendre Coefficients

81-T1-196



0

15

10

20

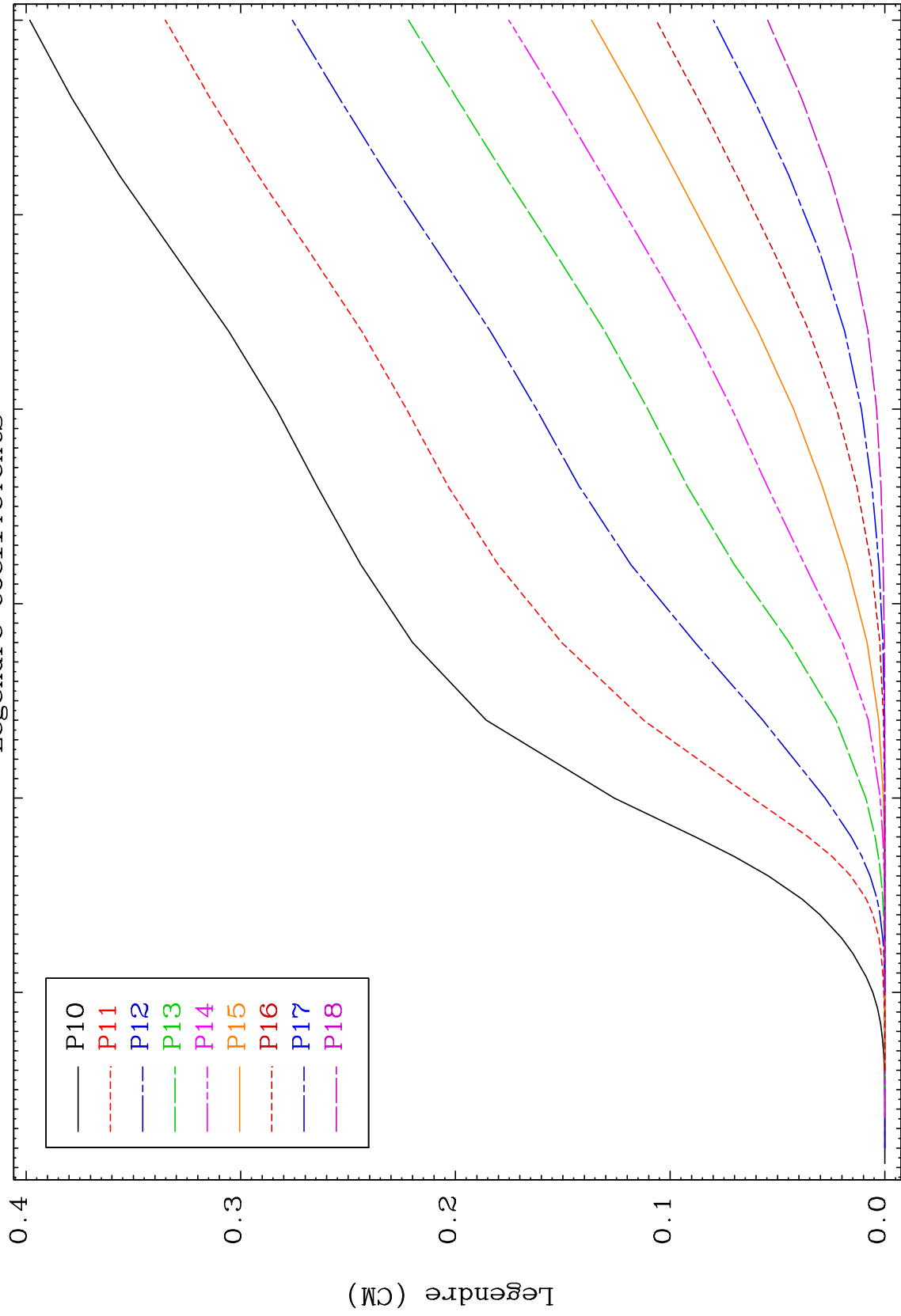
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MAT 8104

Elastic Legendre Coefficients

81-T1-196



16

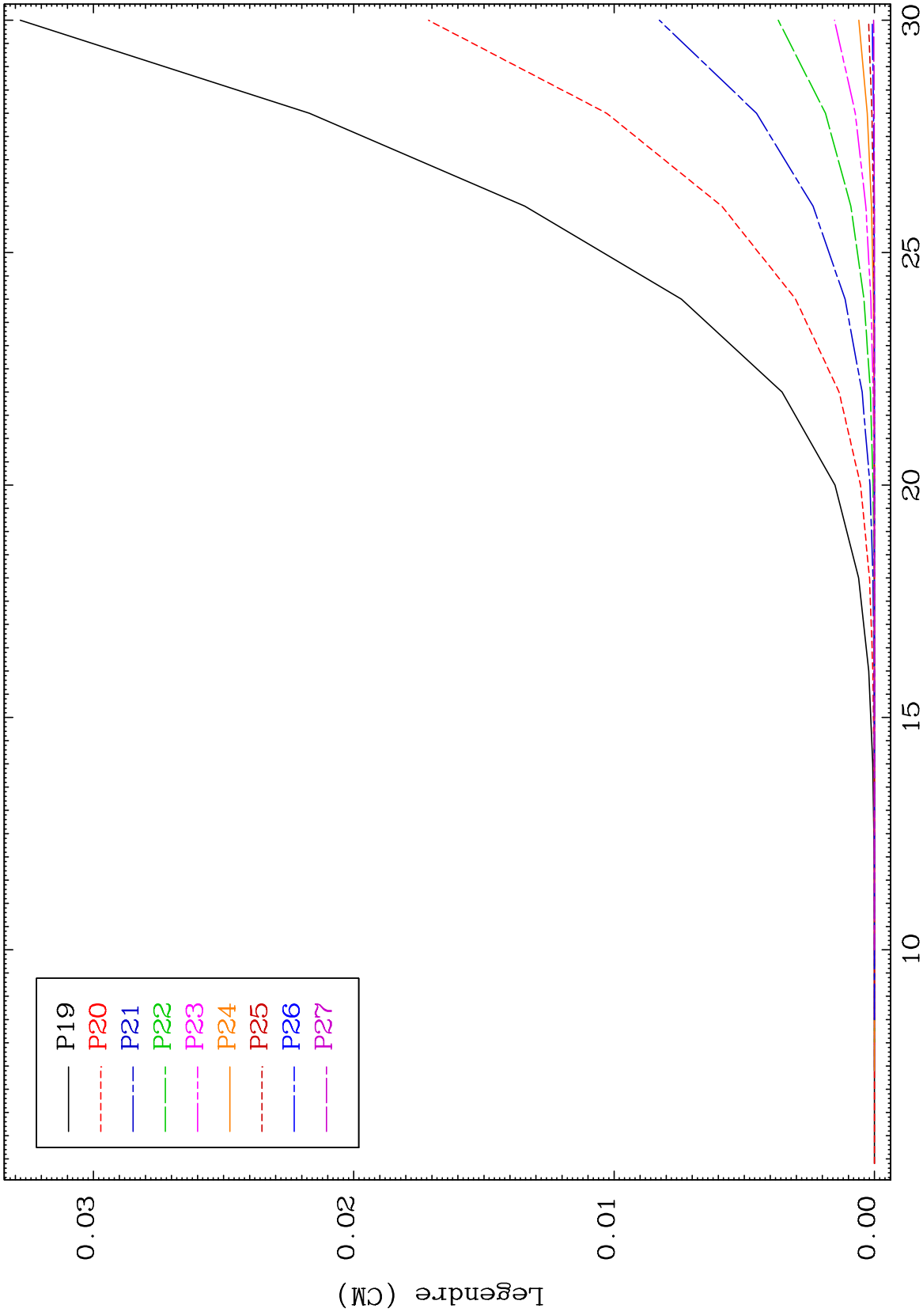
Incident Energy (MeV)

81-T1-196

MAT 8104

### Elastic Legendre Coefficients

81-T1-196



17

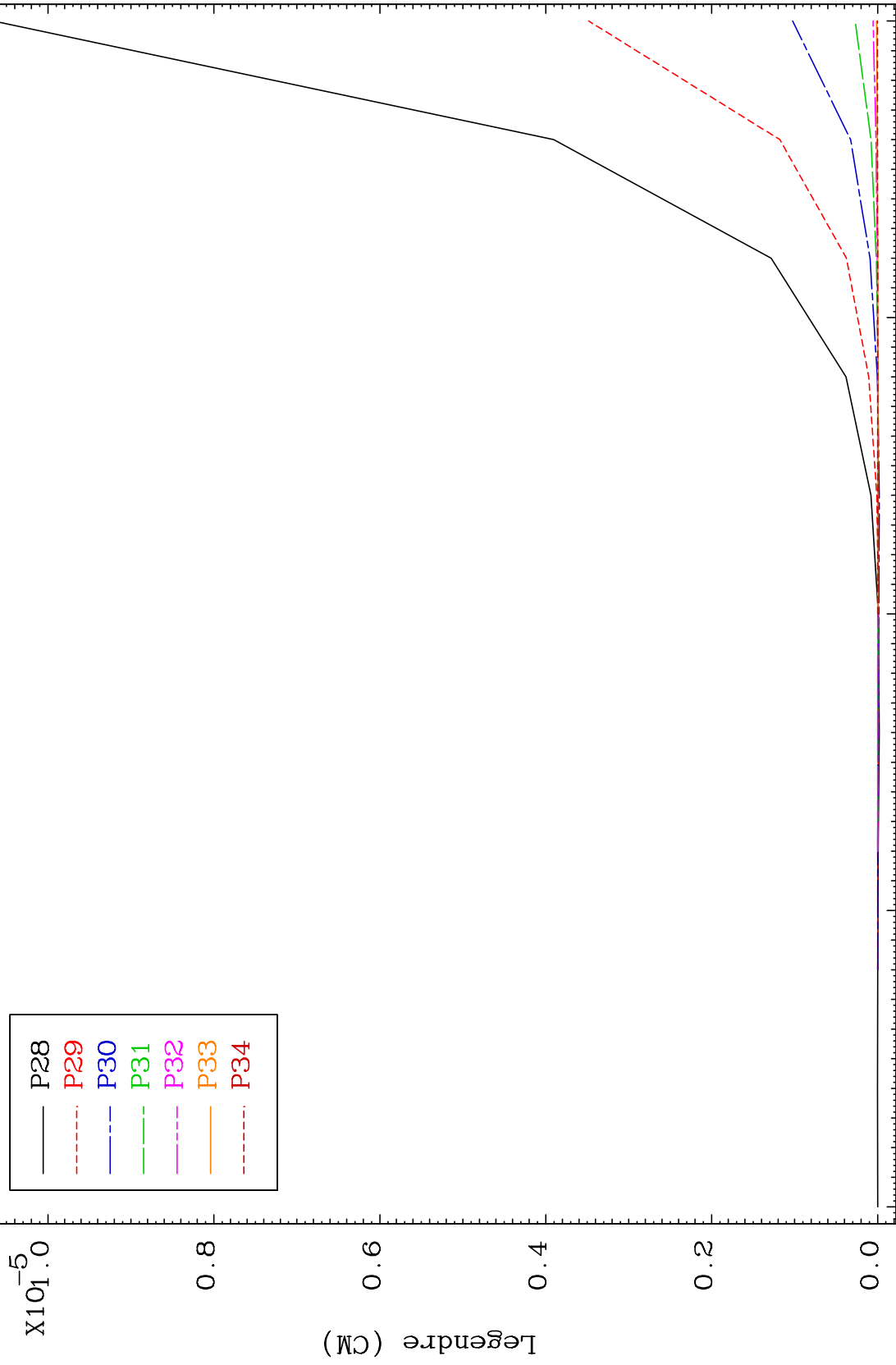
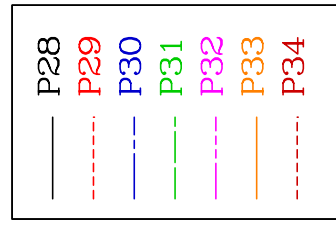
Incident Energy (MeV)

81-T1-196

MAT 8104

Elastic Legendre Coefficients

81-T1-196



18

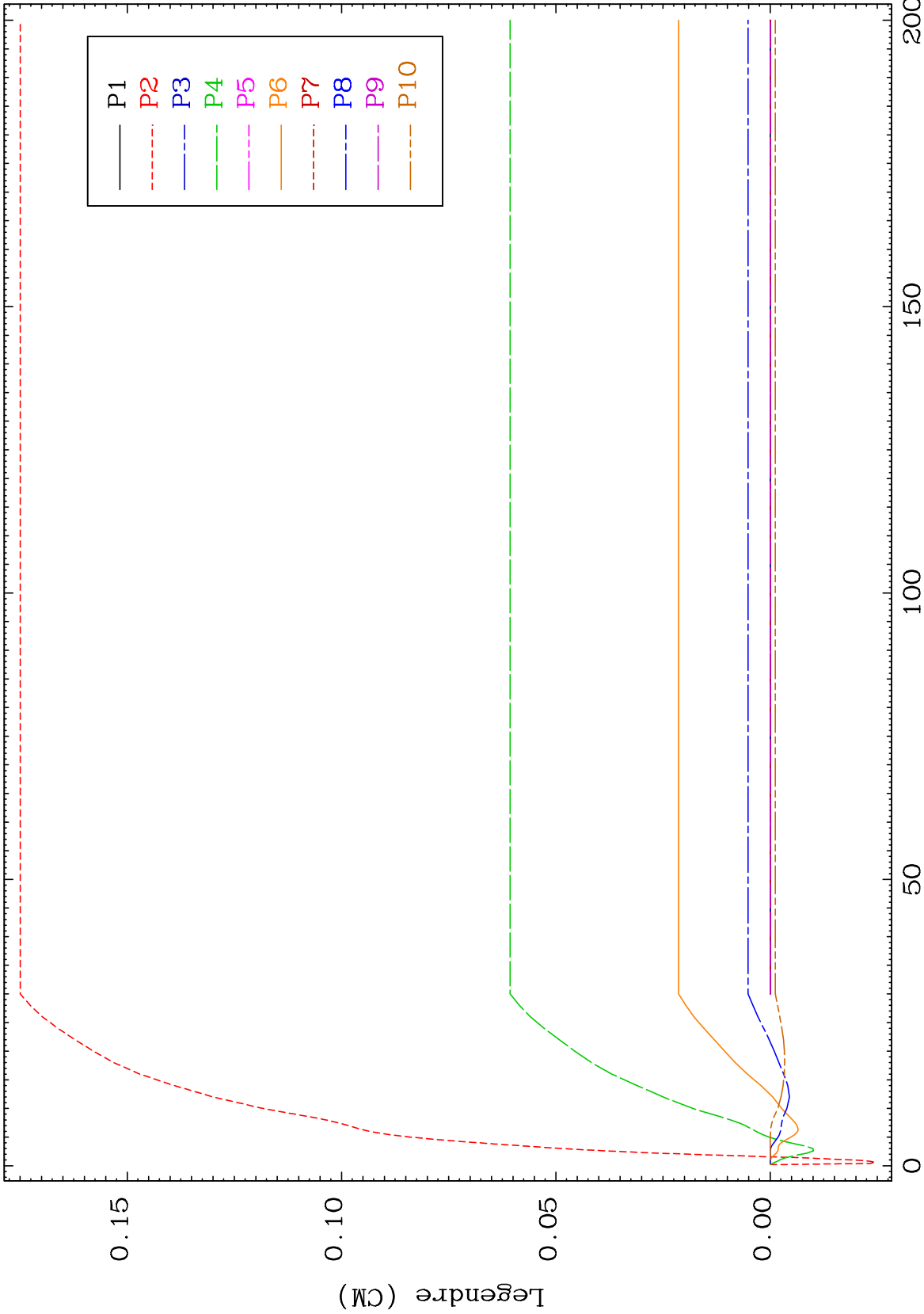
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



19

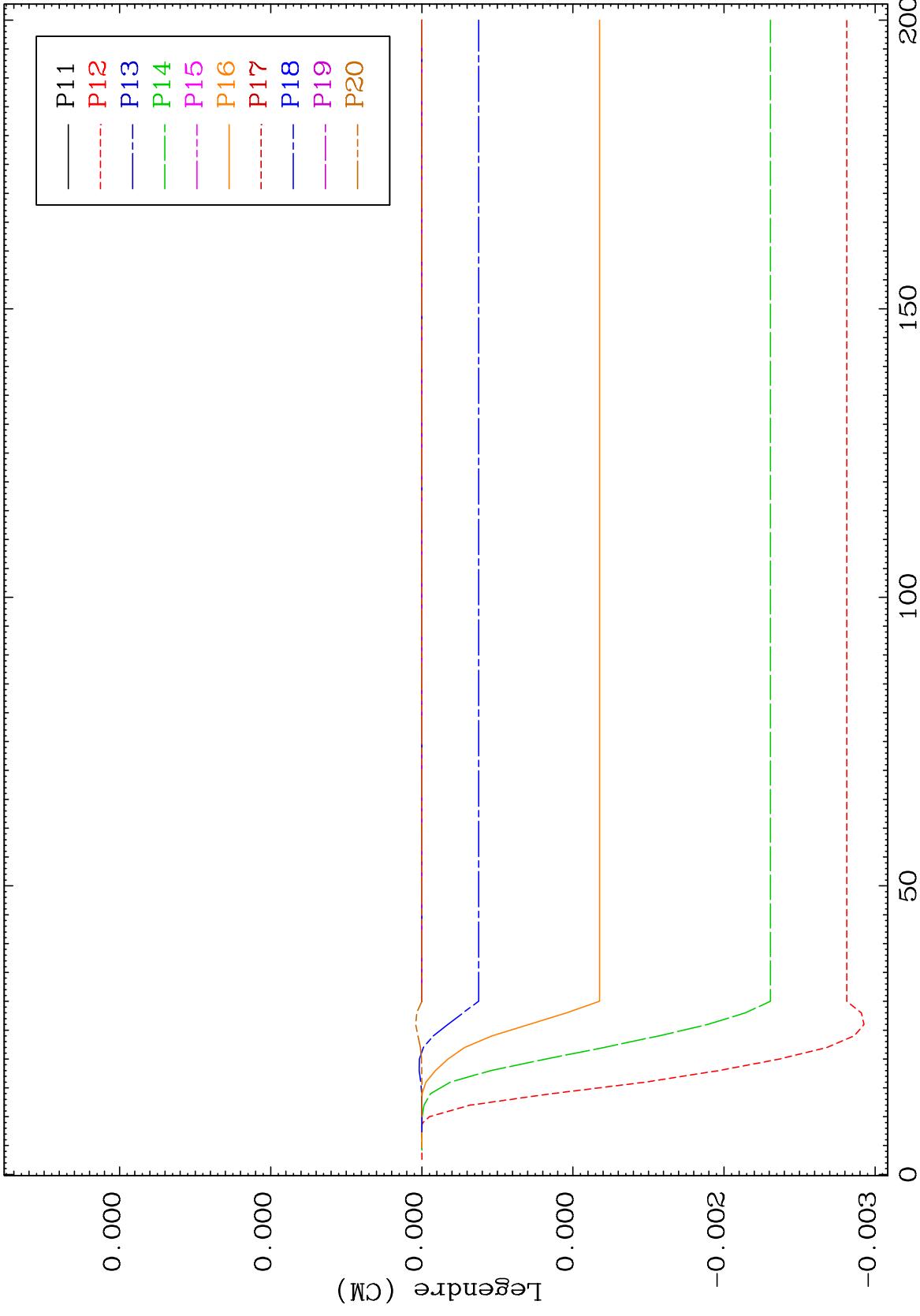
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



20

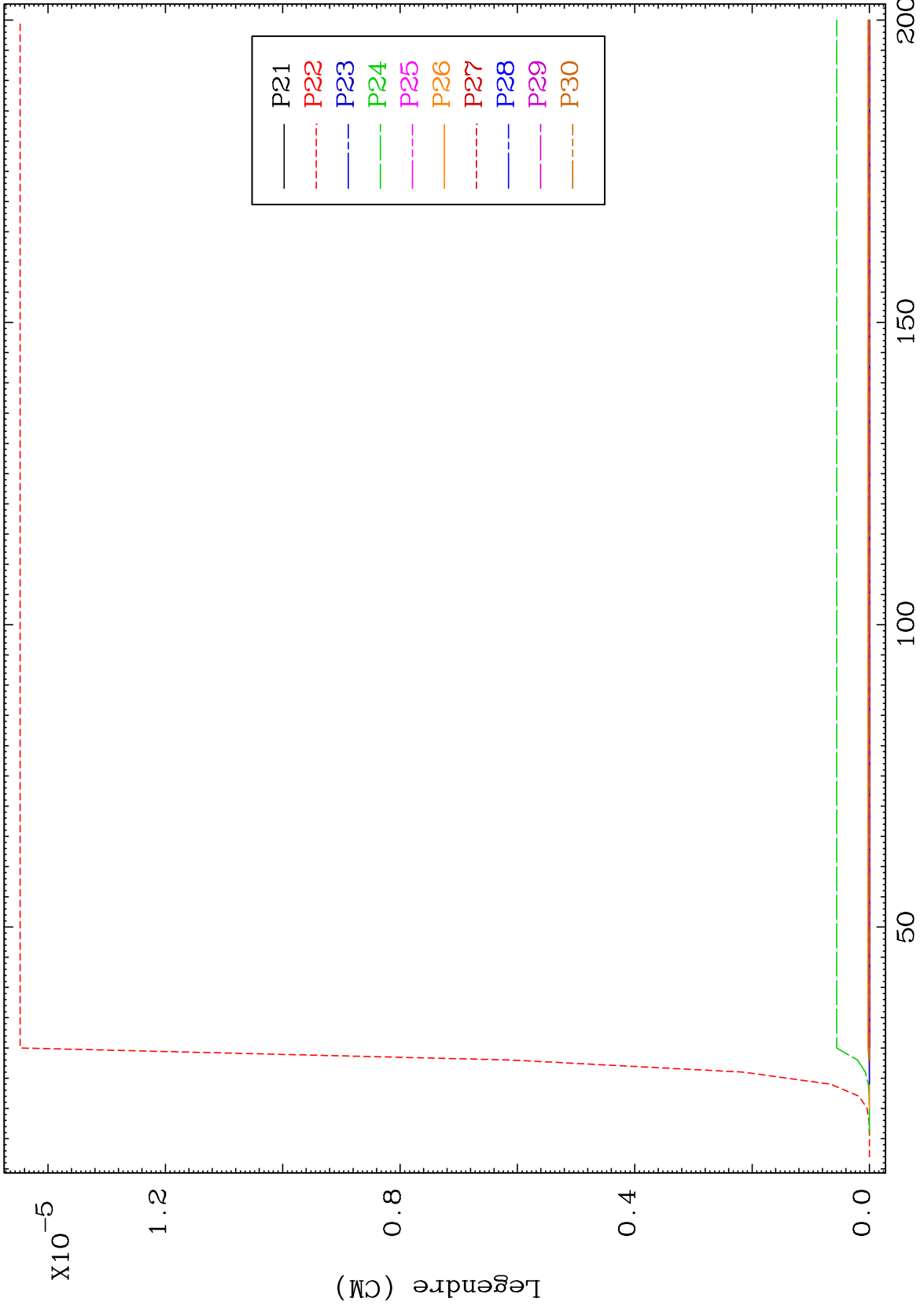
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196

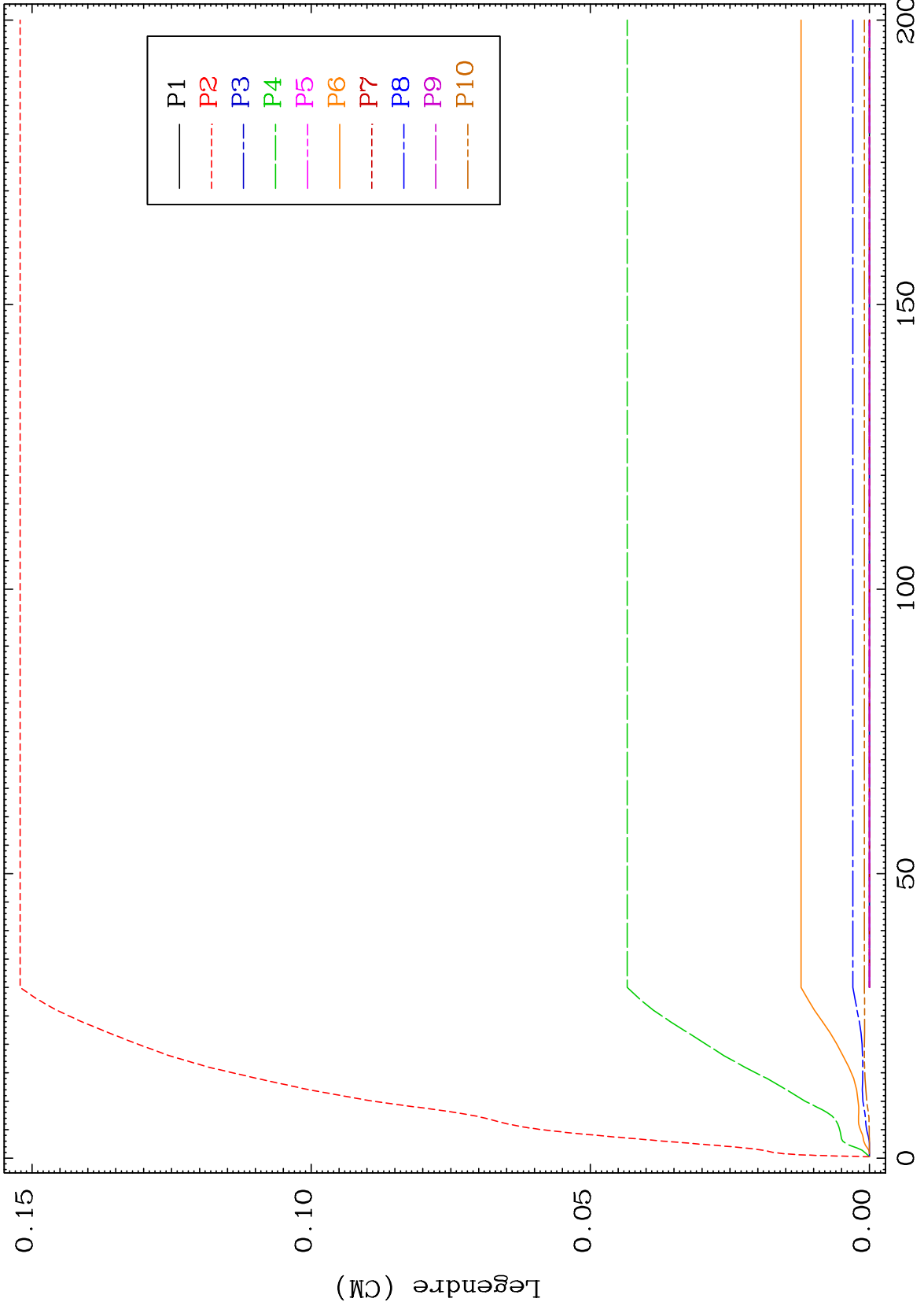


21

Incident Energy (MeV)

81-T1-196

MAT 8104 MT= 52 (n,n') Level Legendre Coefficients 81-T1-196

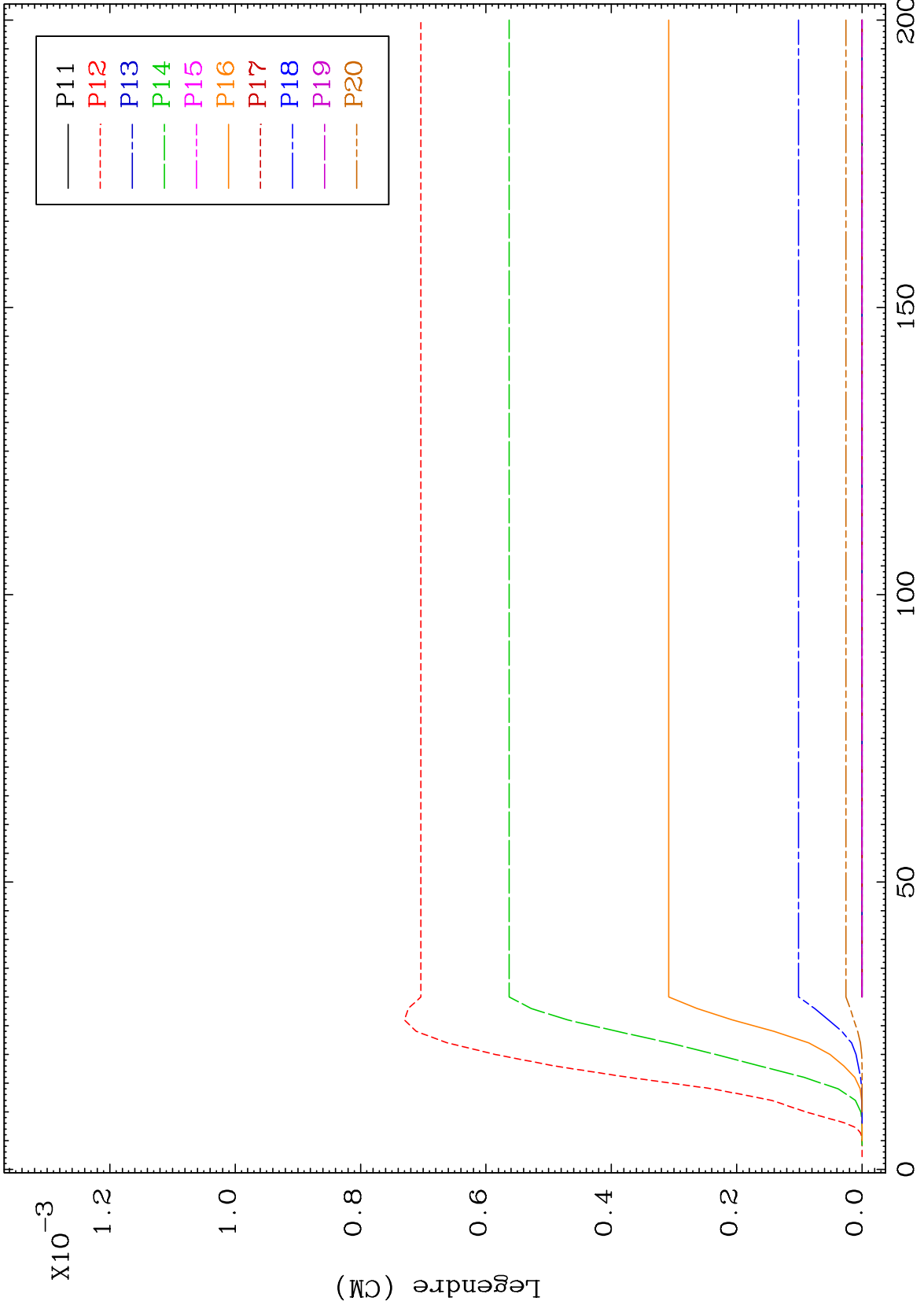


22 81-T1-196

MAT 8104

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

81-T1-196



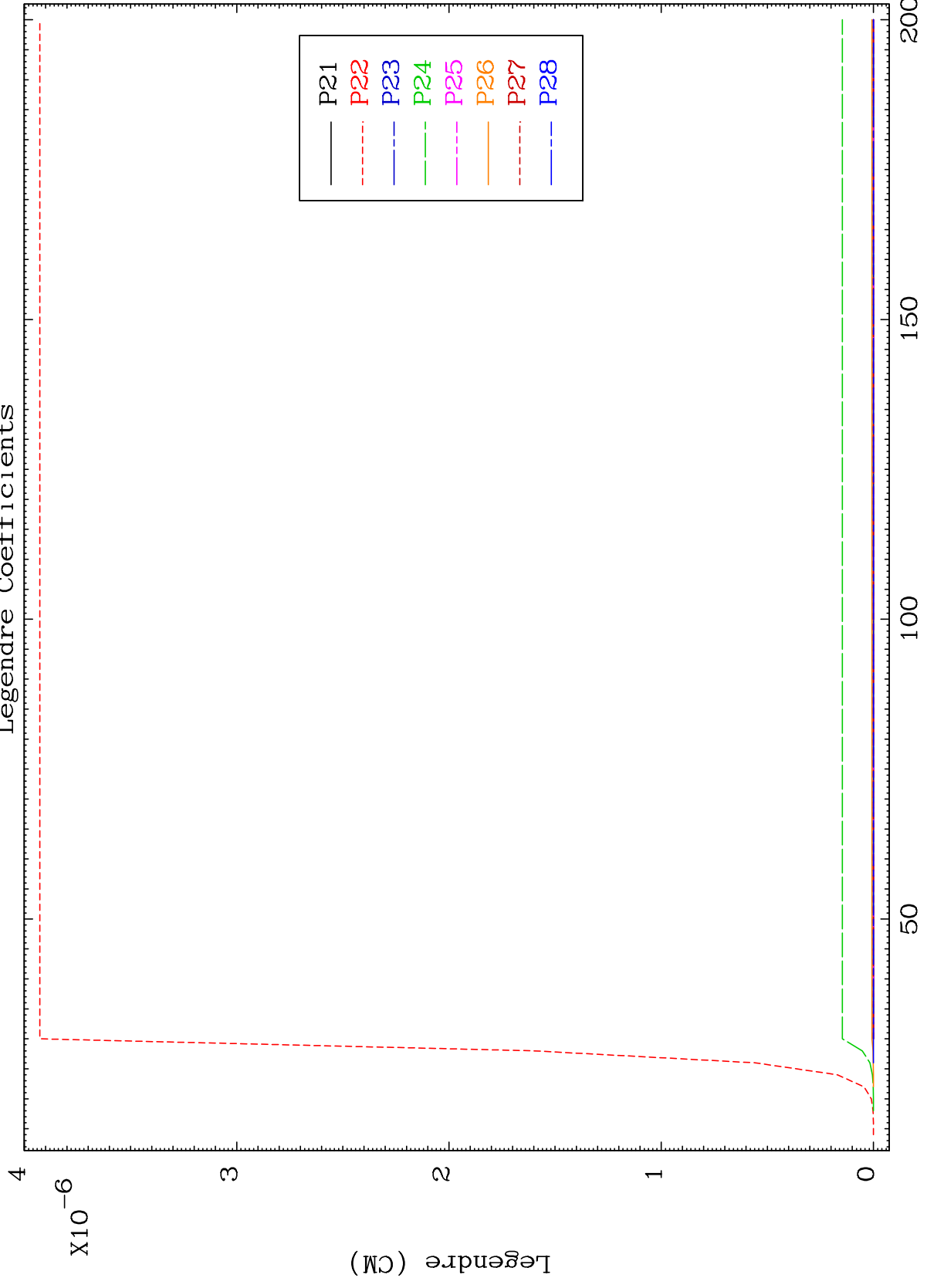
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Incident Energy (MeV)

81-T1-196



MAT 8104 MT= 52 (n,n') Level Legendre Coefficients 81-T1-196

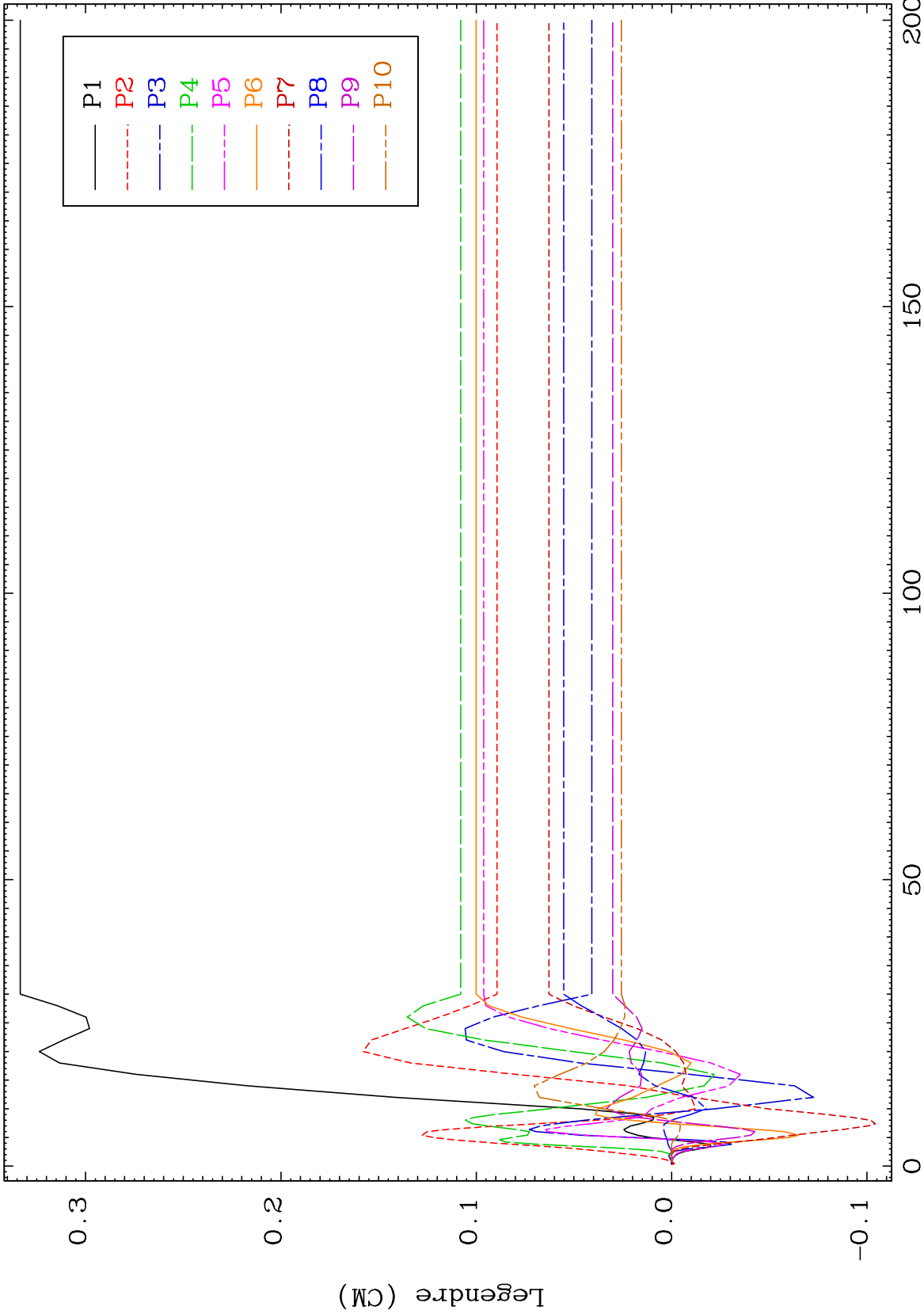


24 81-T1-196

MAT 8104

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

81-T1-196



25

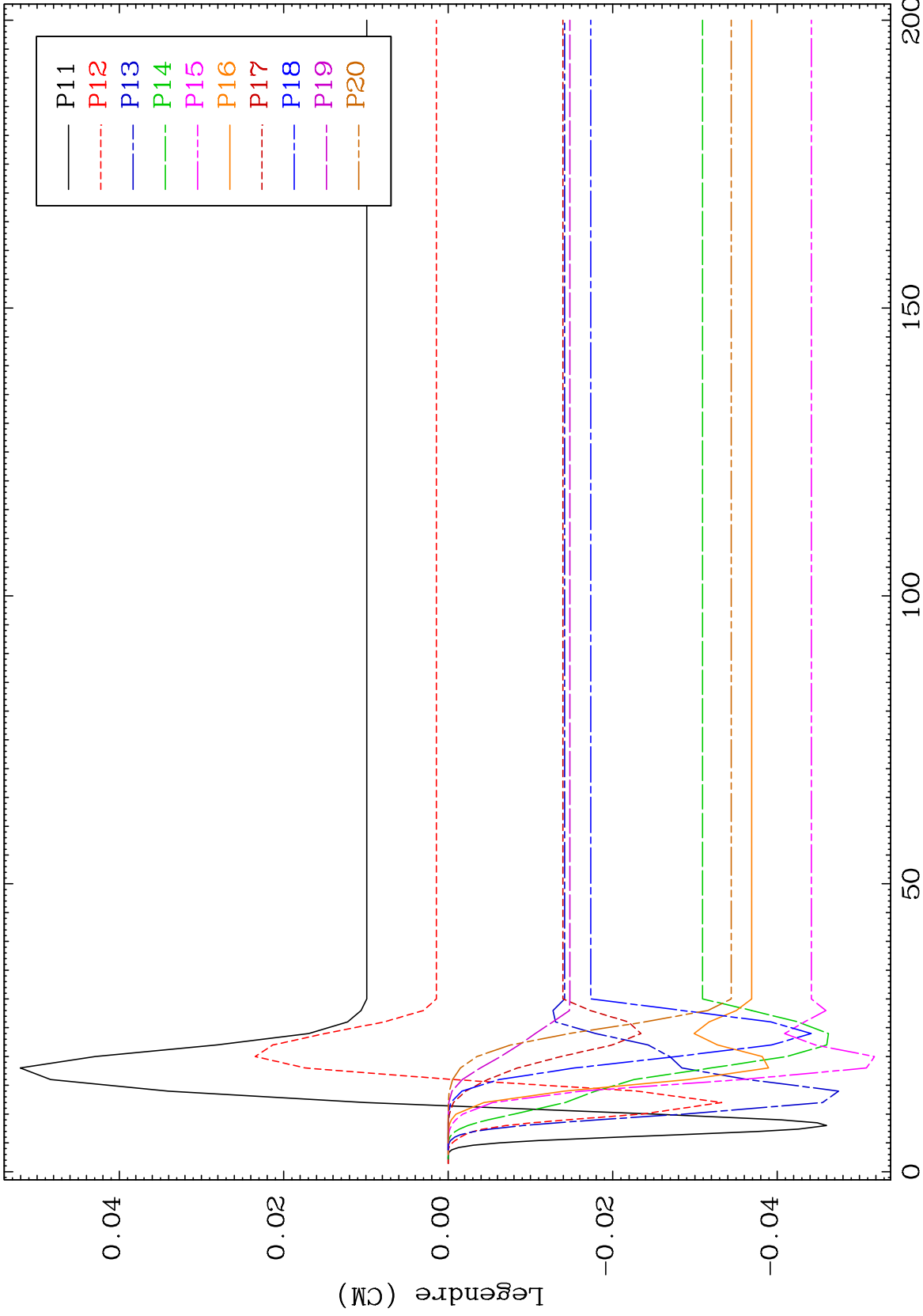
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



26

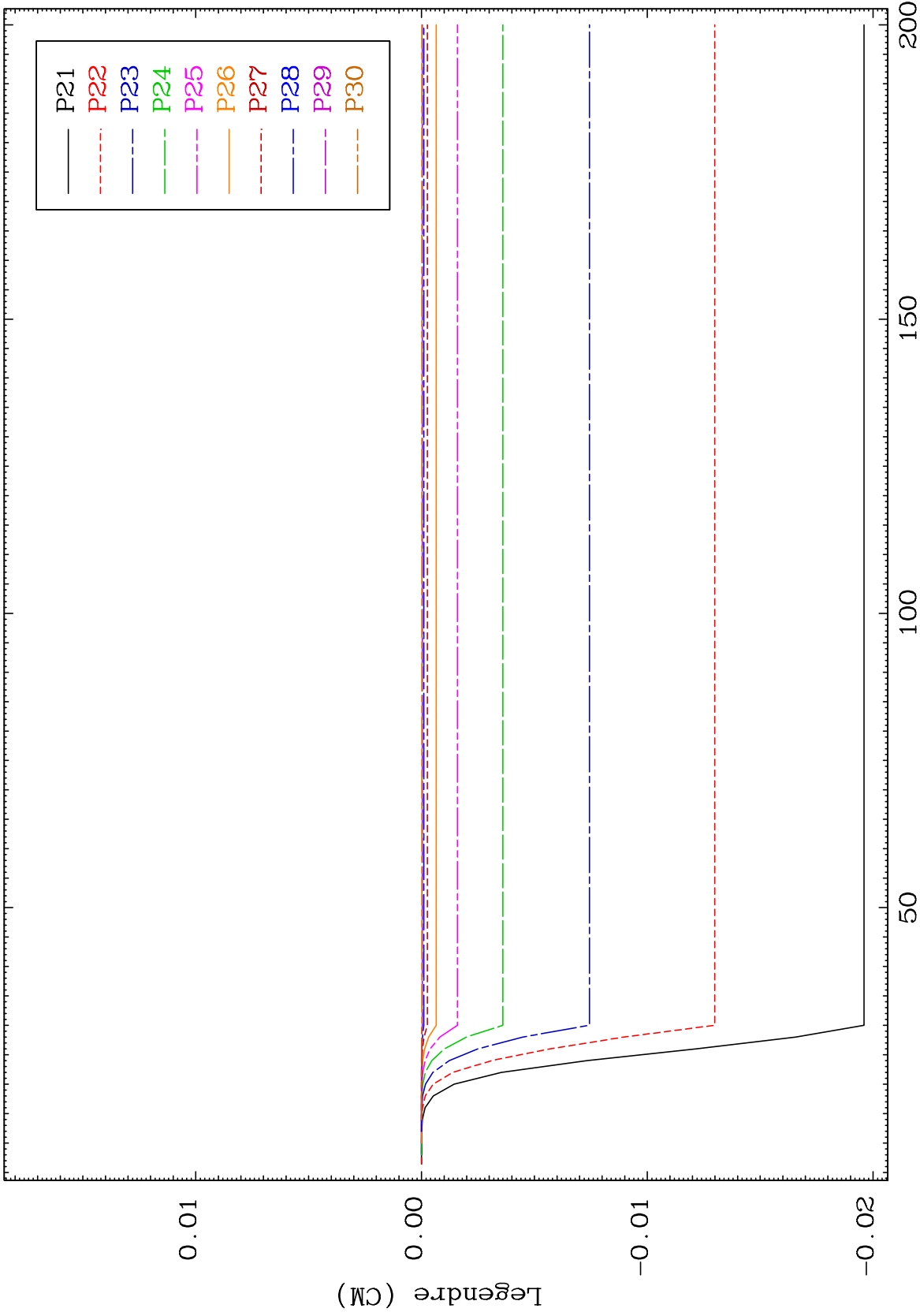
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



27

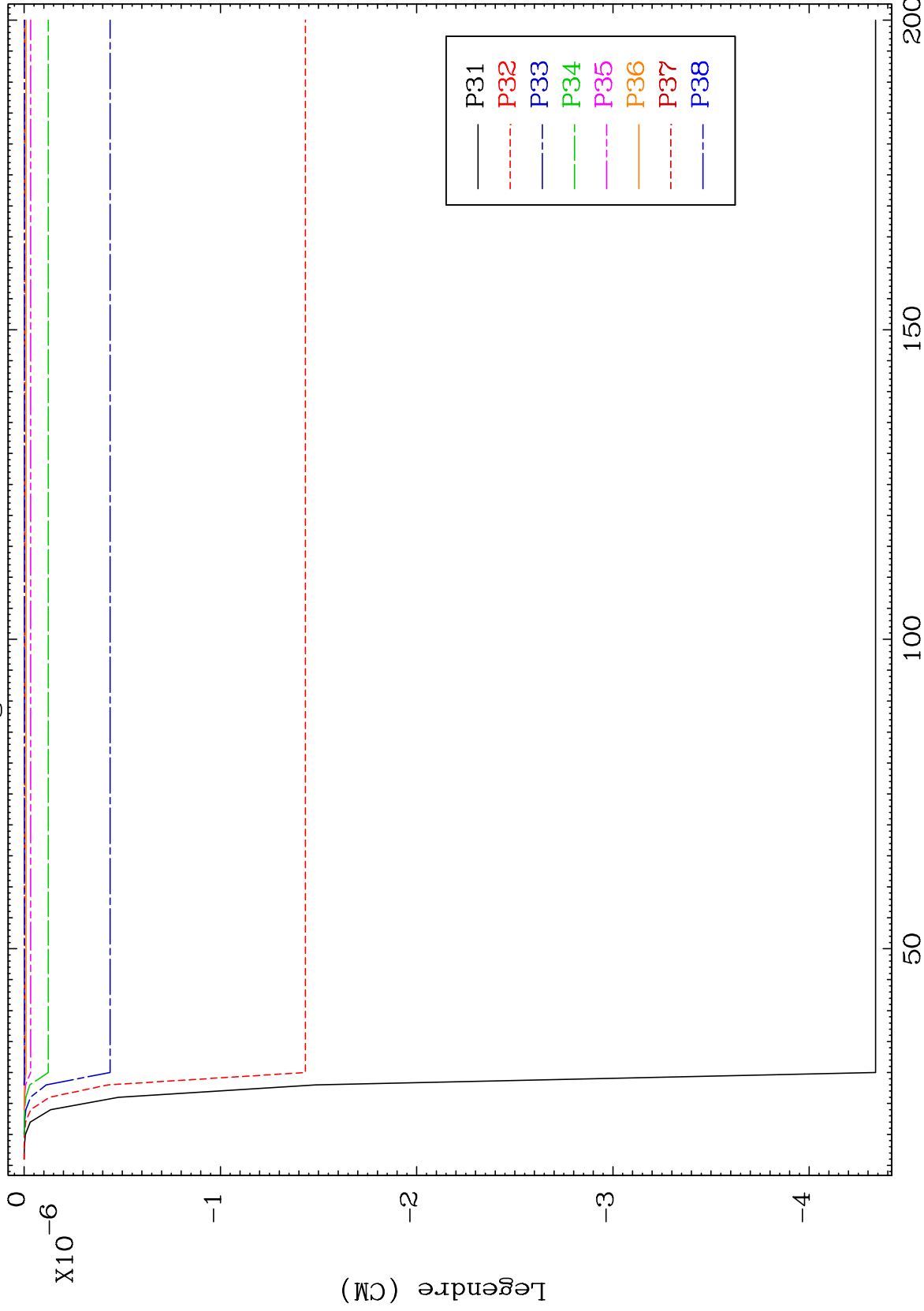
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



28

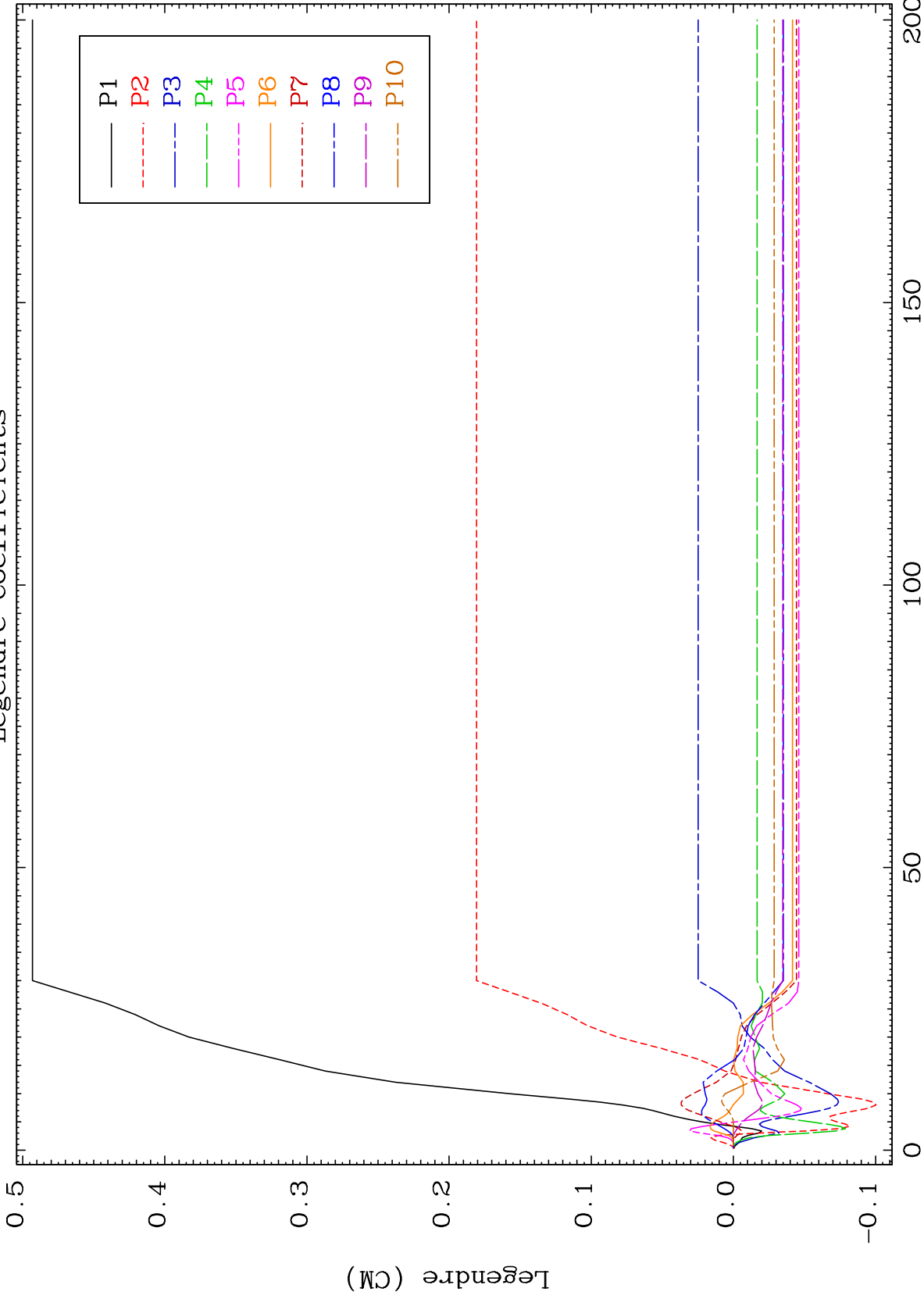
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



29

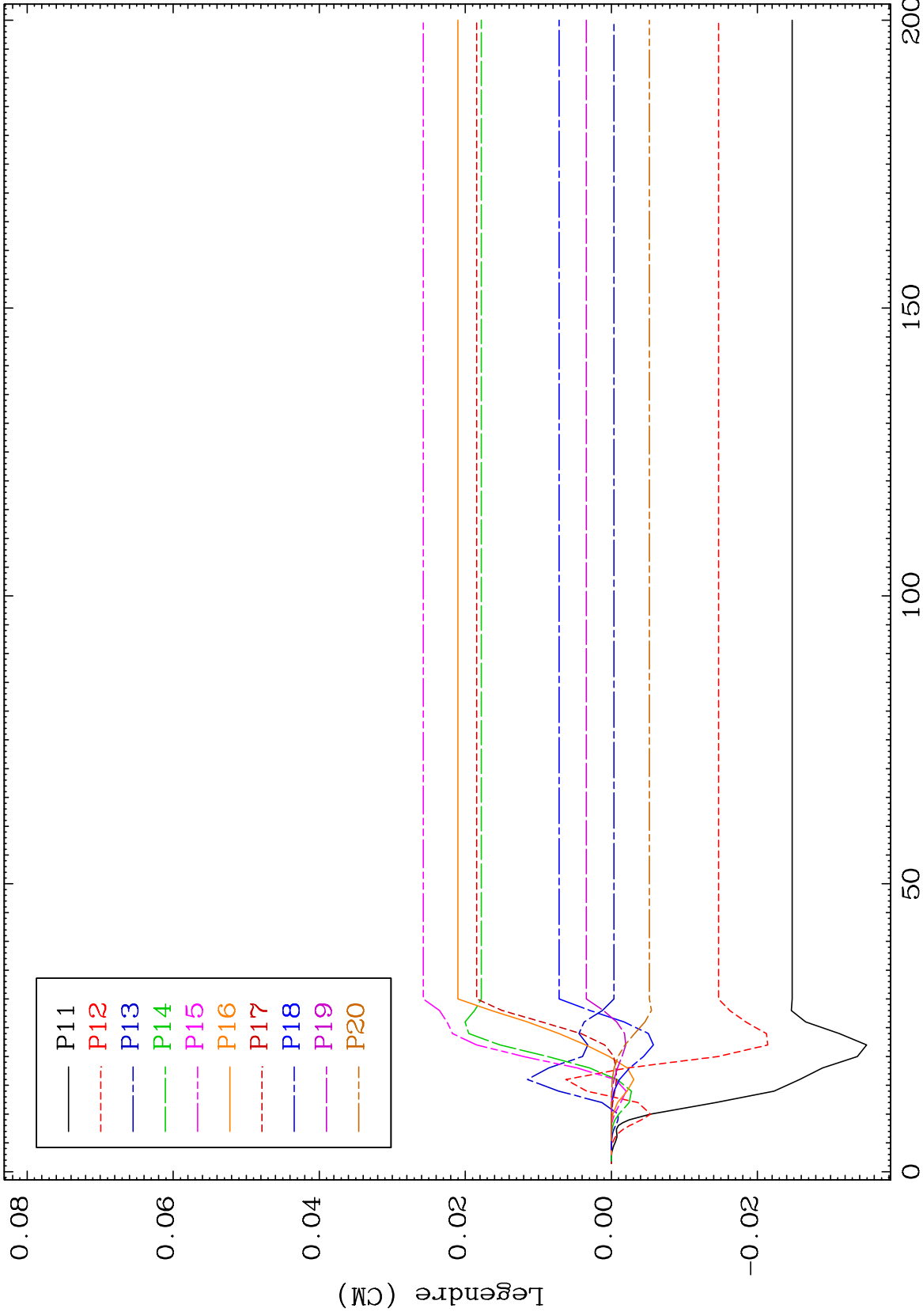
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-Tl-196



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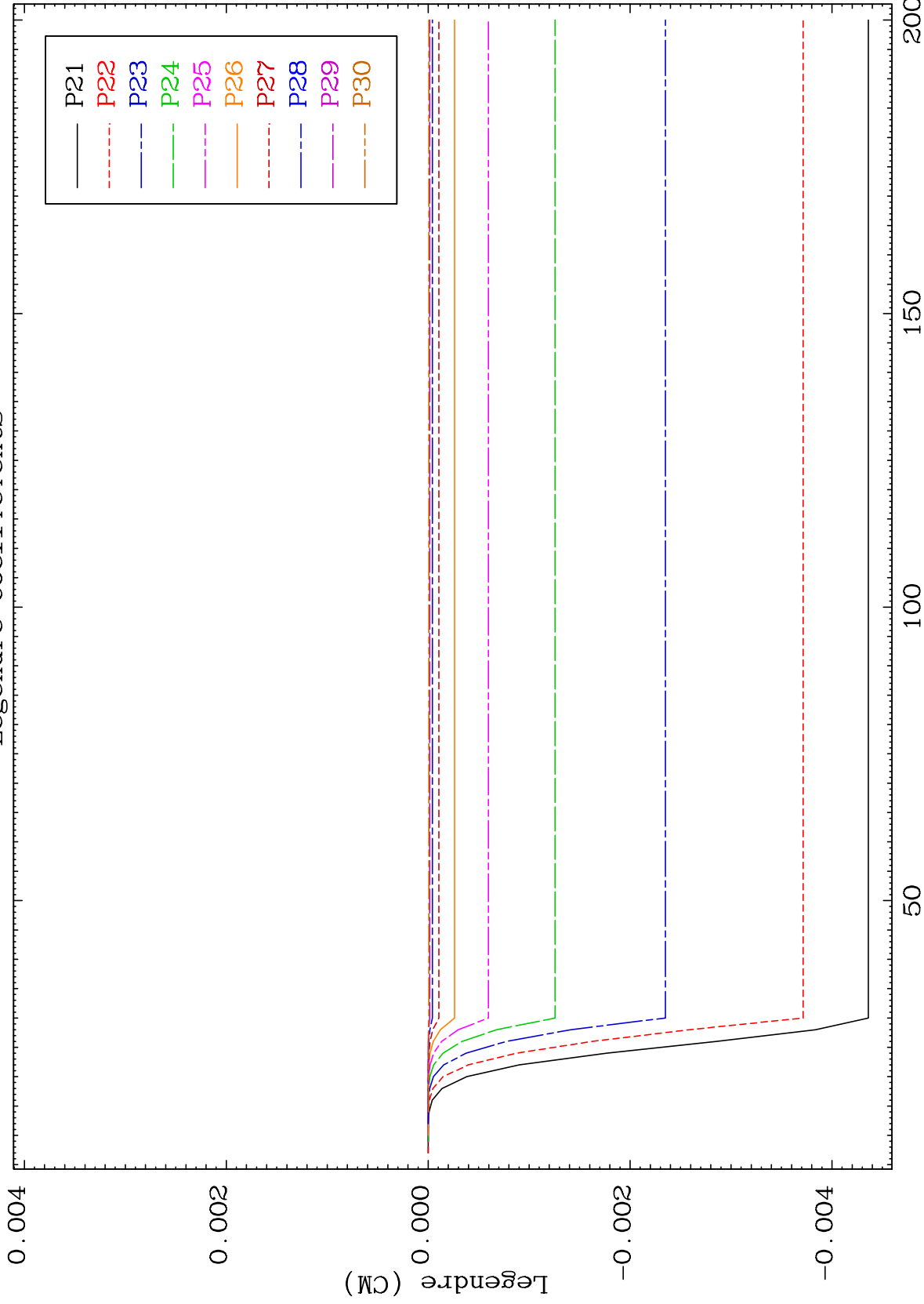
Incident Energy (MeV)

81-Tl-196

MAT 8104

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

81-T1-196



31

Incident Energy (MeV)

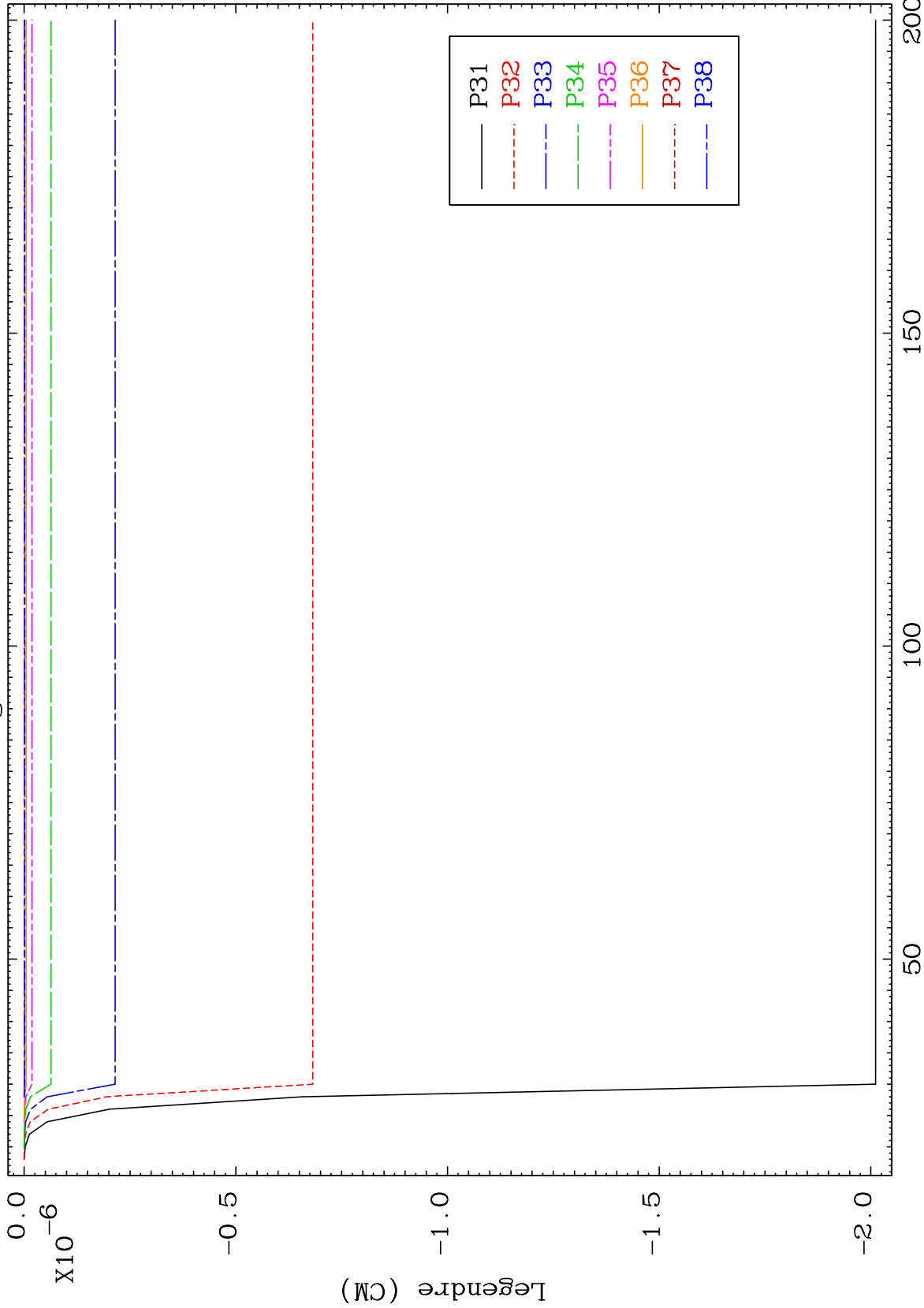
81-T1-196



MAT 8104

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

81-T1-196



32

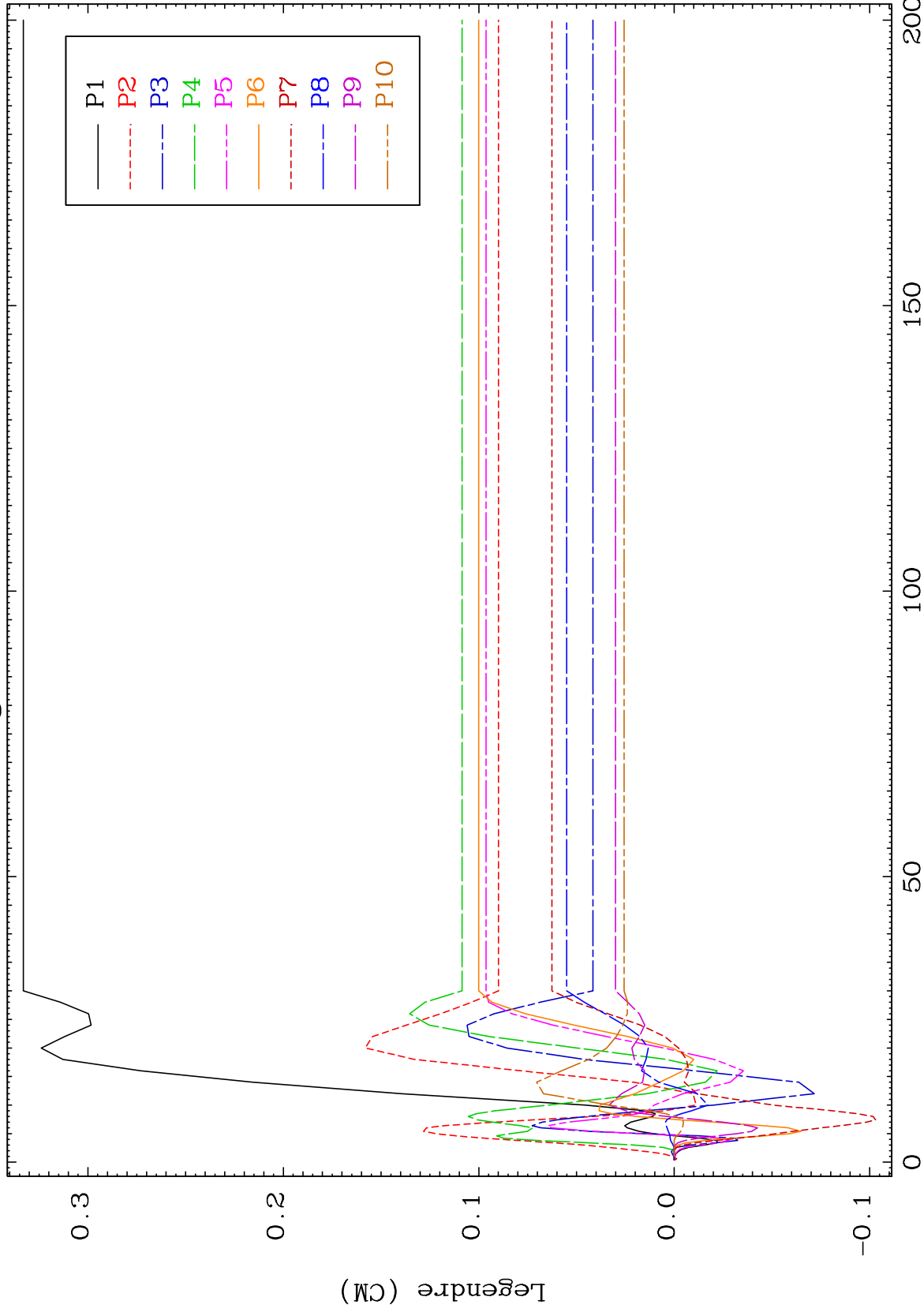
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196

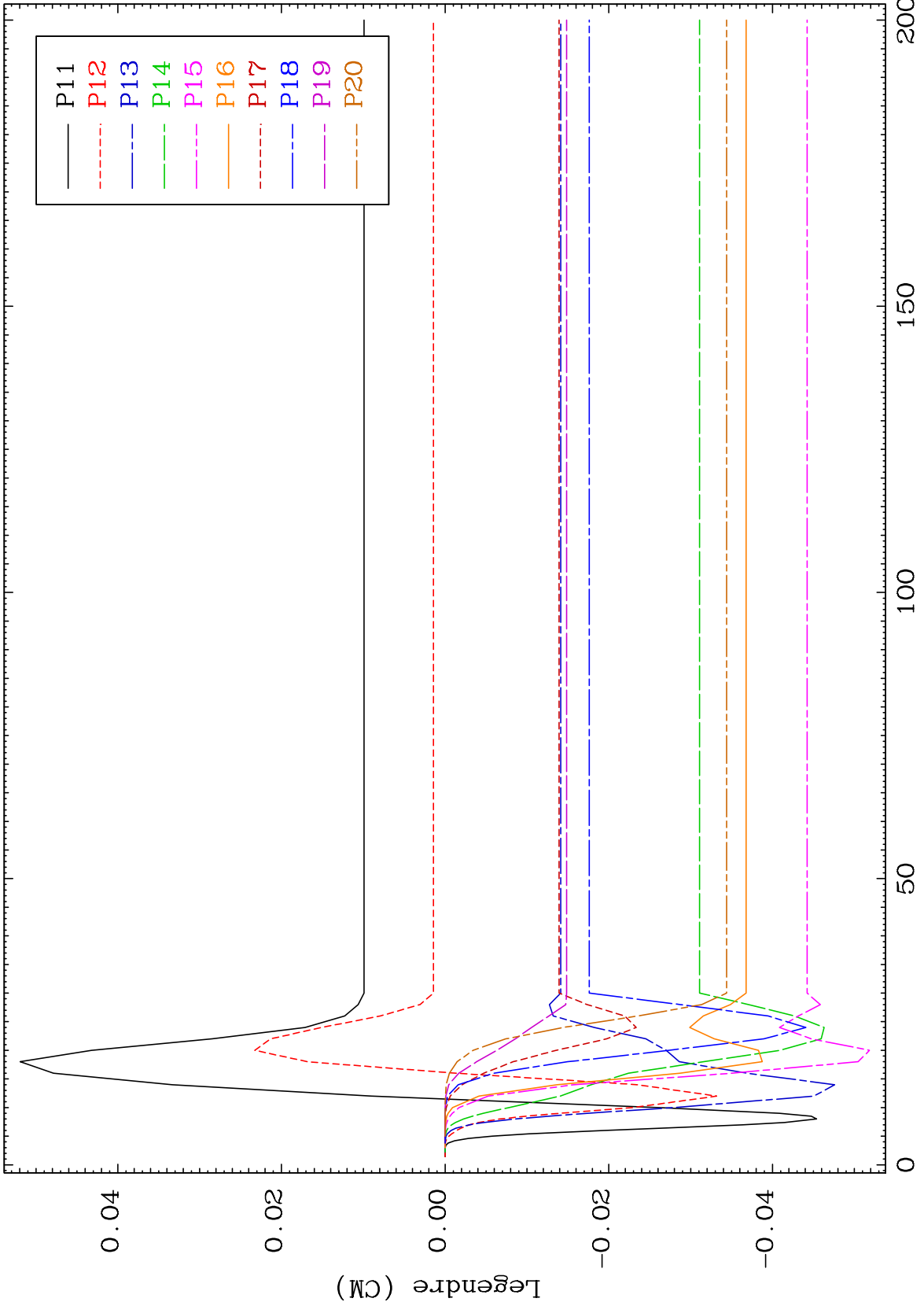


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Incident Energy (MeV)

81-T1-196

MAT 8104 MT= 55 (n,n') Level Legendre Coefficients 81-T1-196

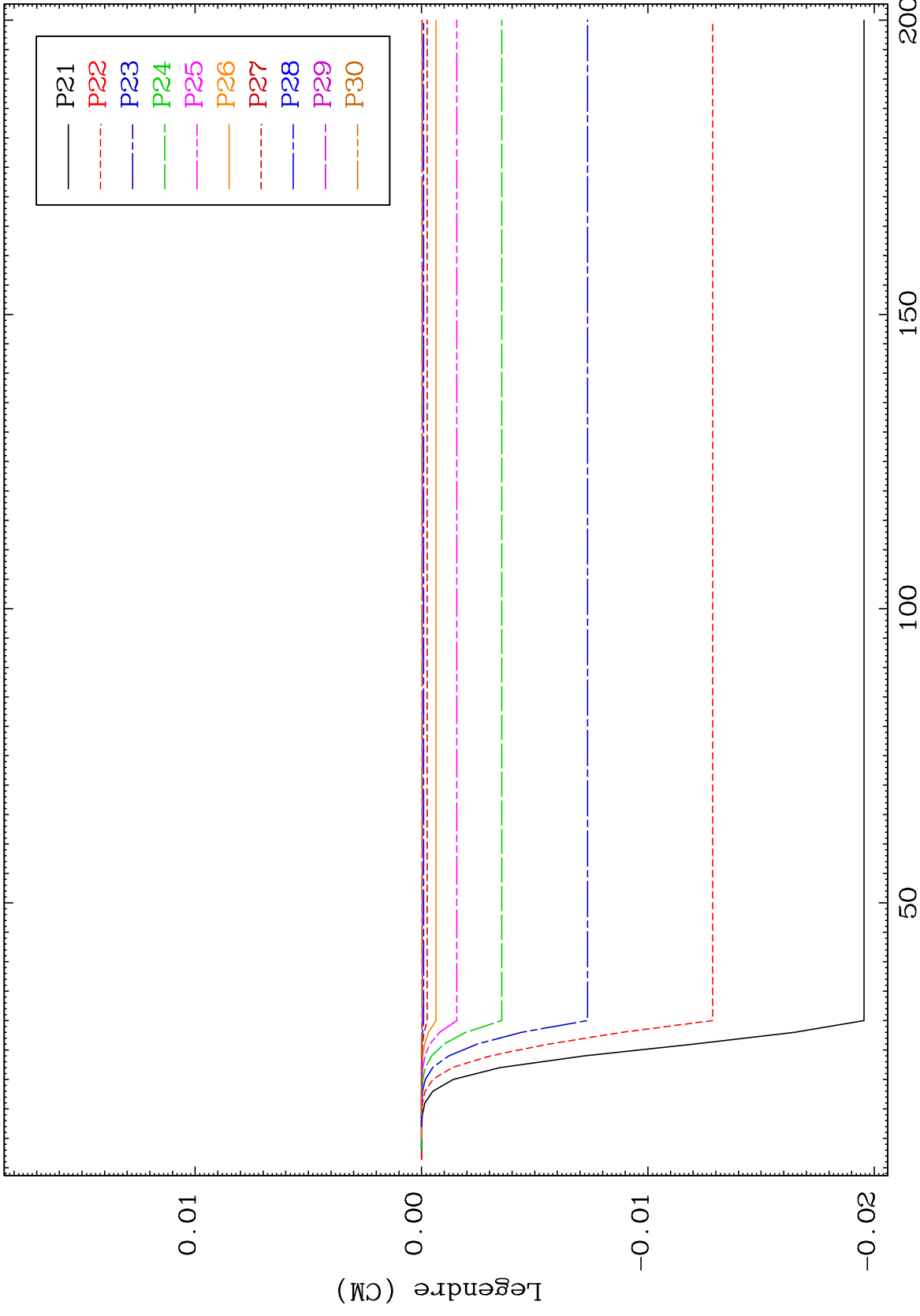


34 81-T1-196

MAT 8104

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

81-T1-196



35

Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



36

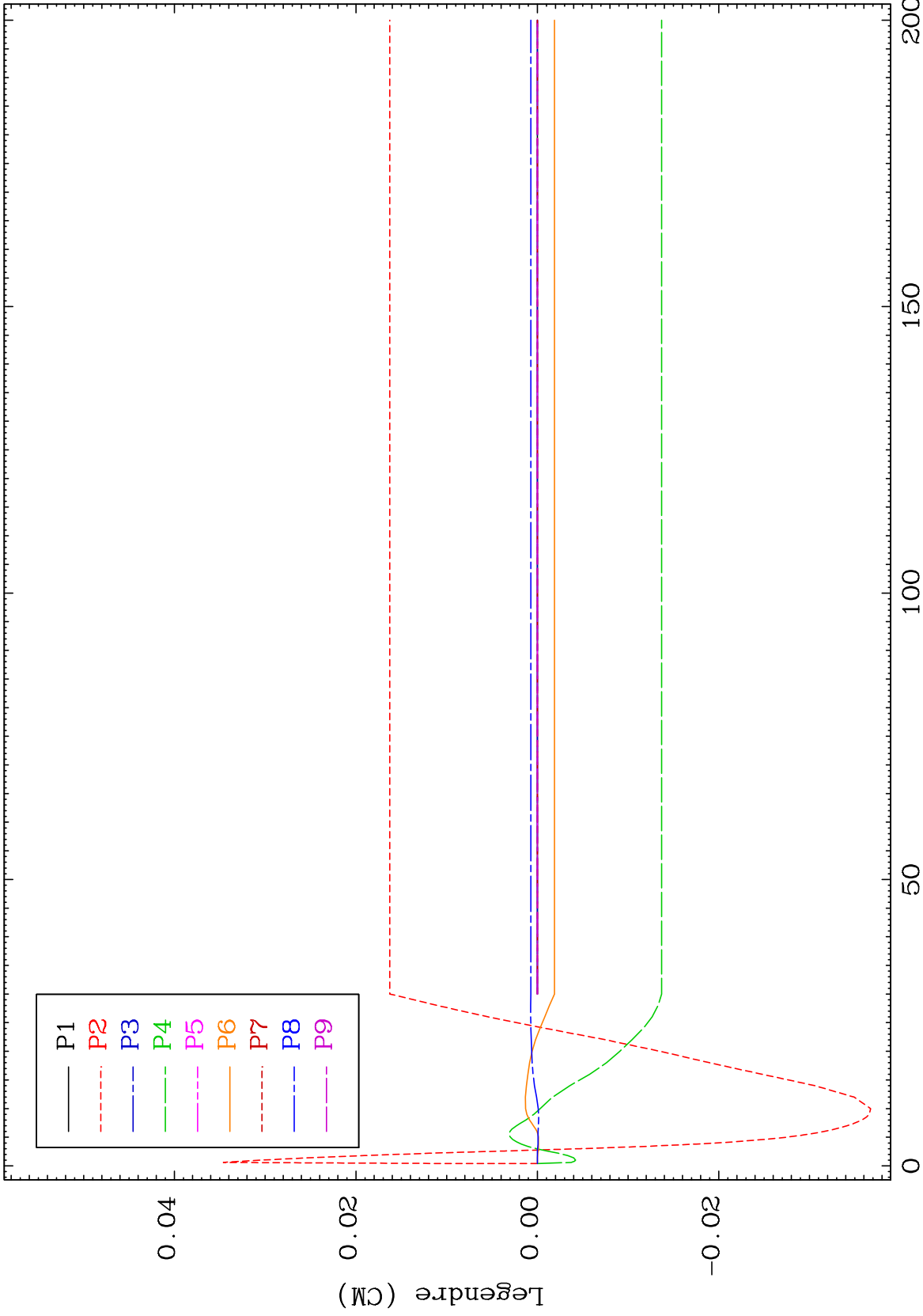
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



37

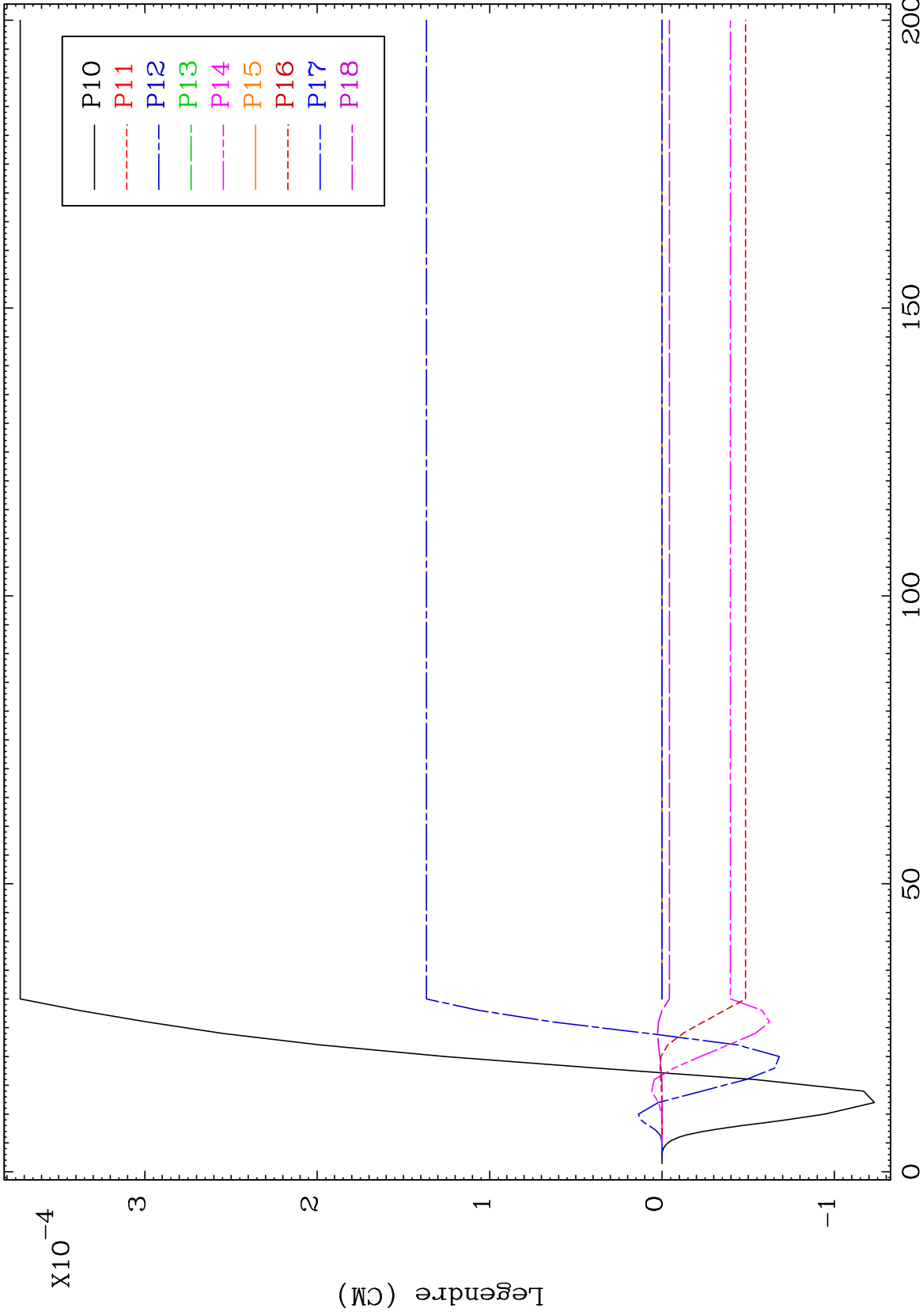
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



38

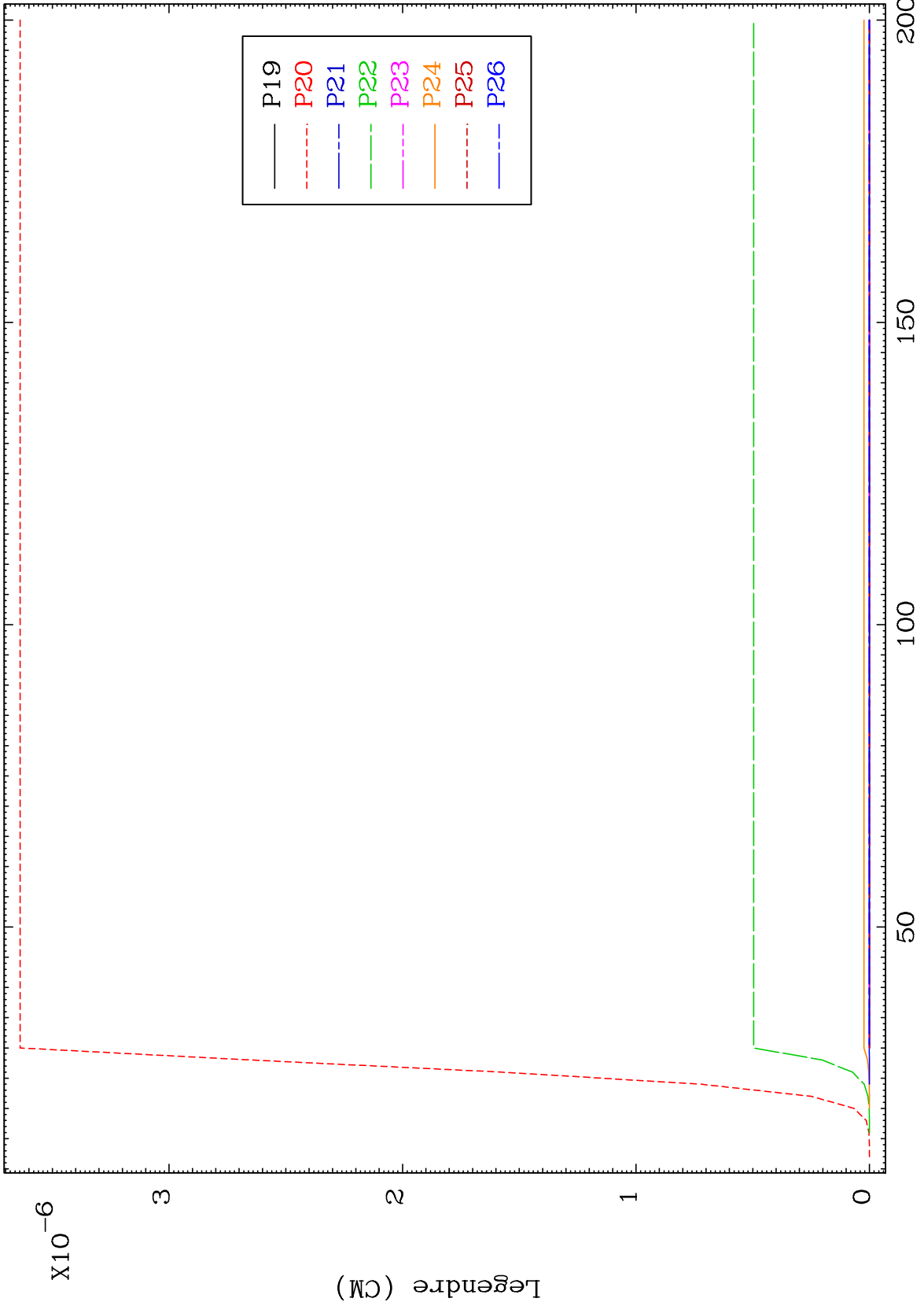
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



39

Incident Energy (MeV)

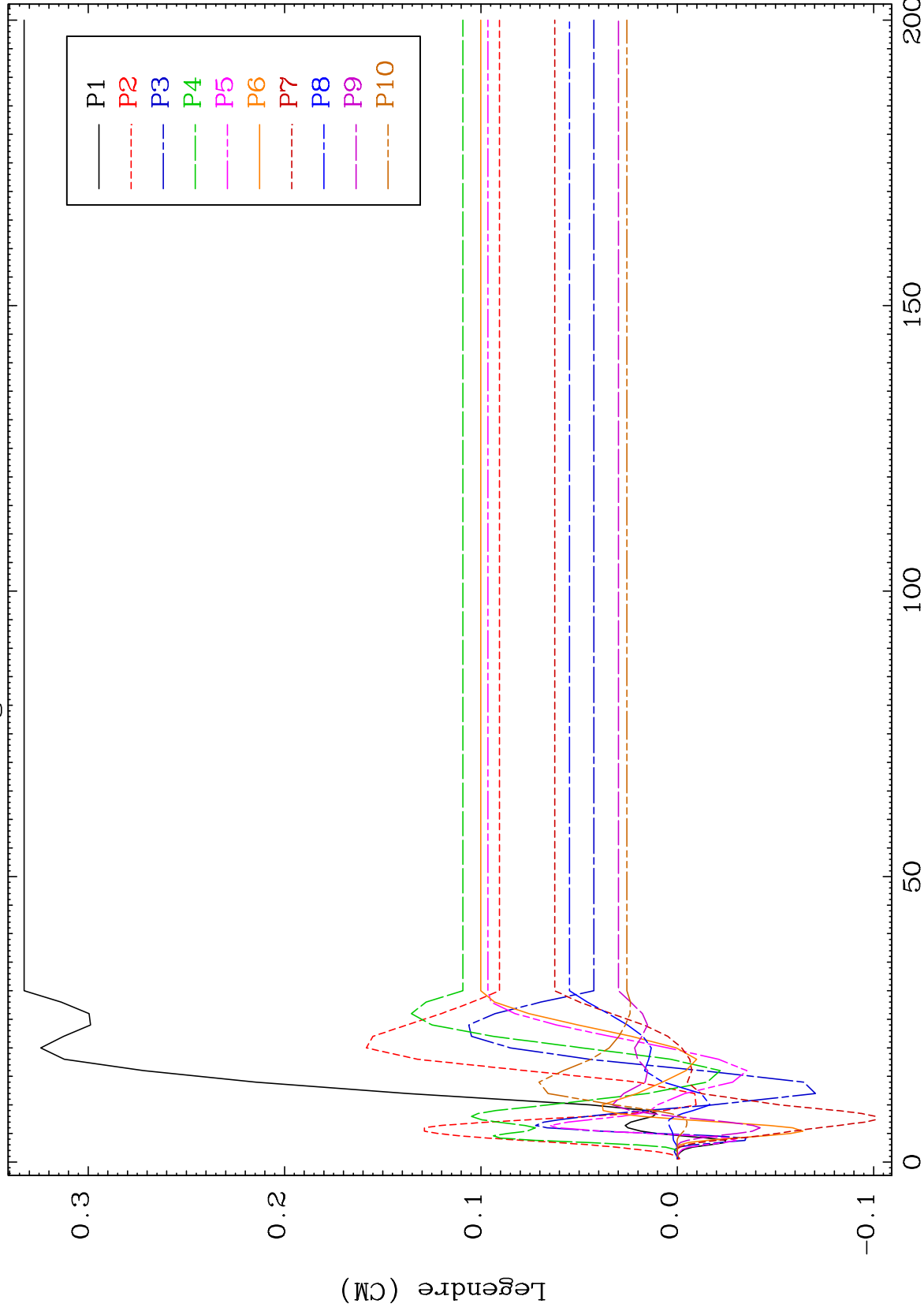
81-T1-196



MAT 8104

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

81-T1-196

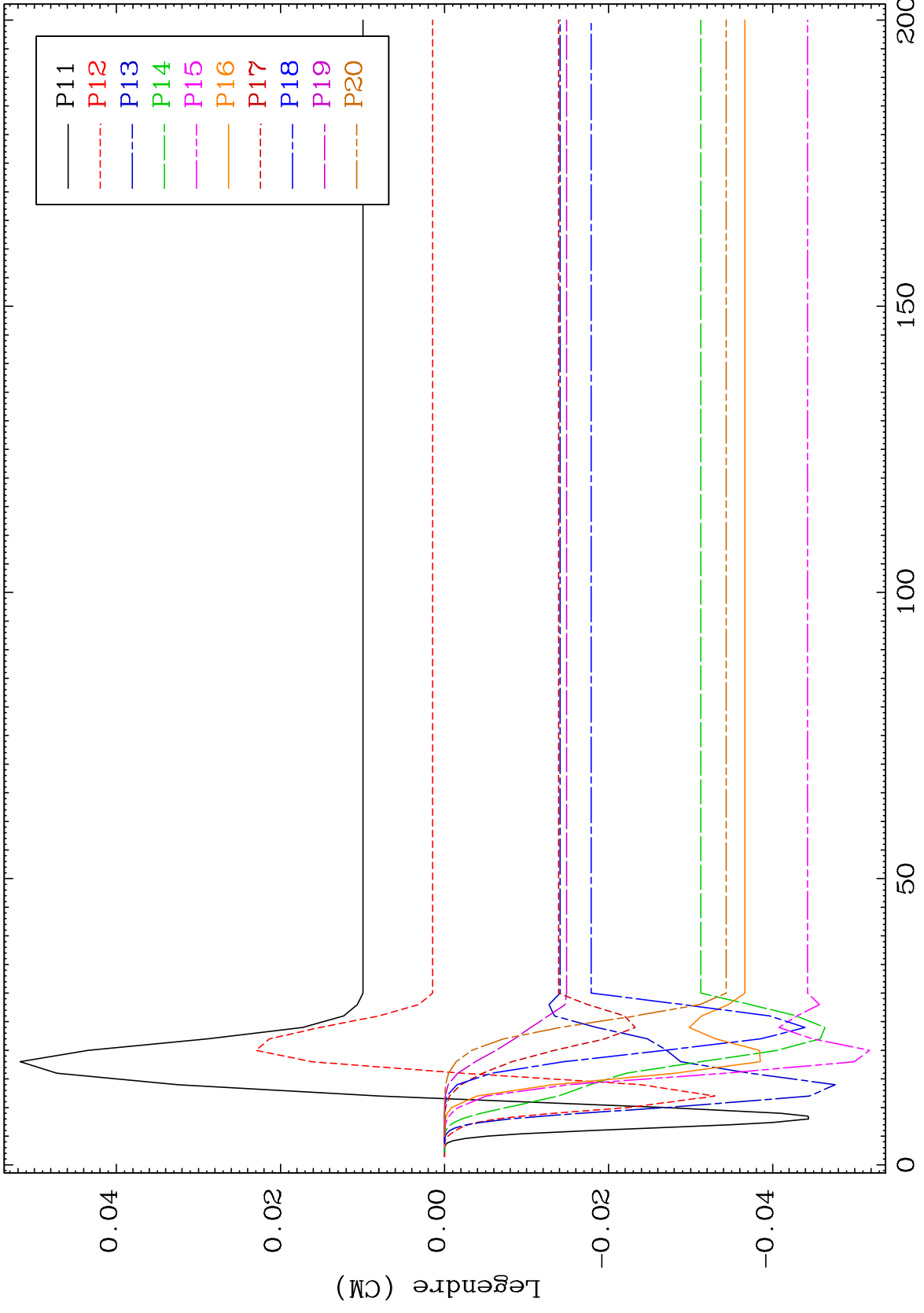


81-T1-196

Incident Energy (MeV)

40

MAT 8104 MT= 57 (n,n') Level Legendre Coefficients 81-T1-196

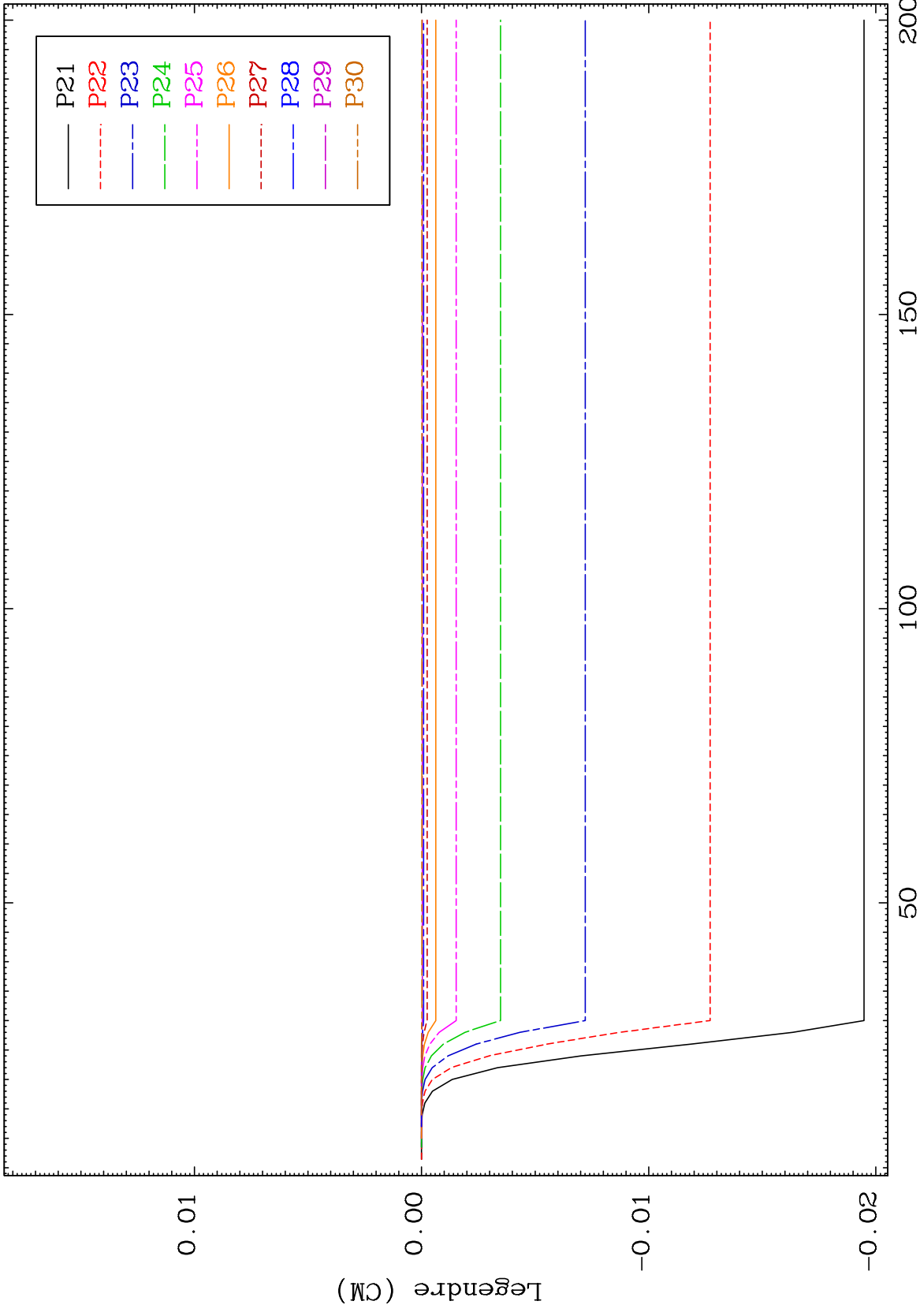


41 81-T1-196

MAT 8104

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

81-T1-196



42

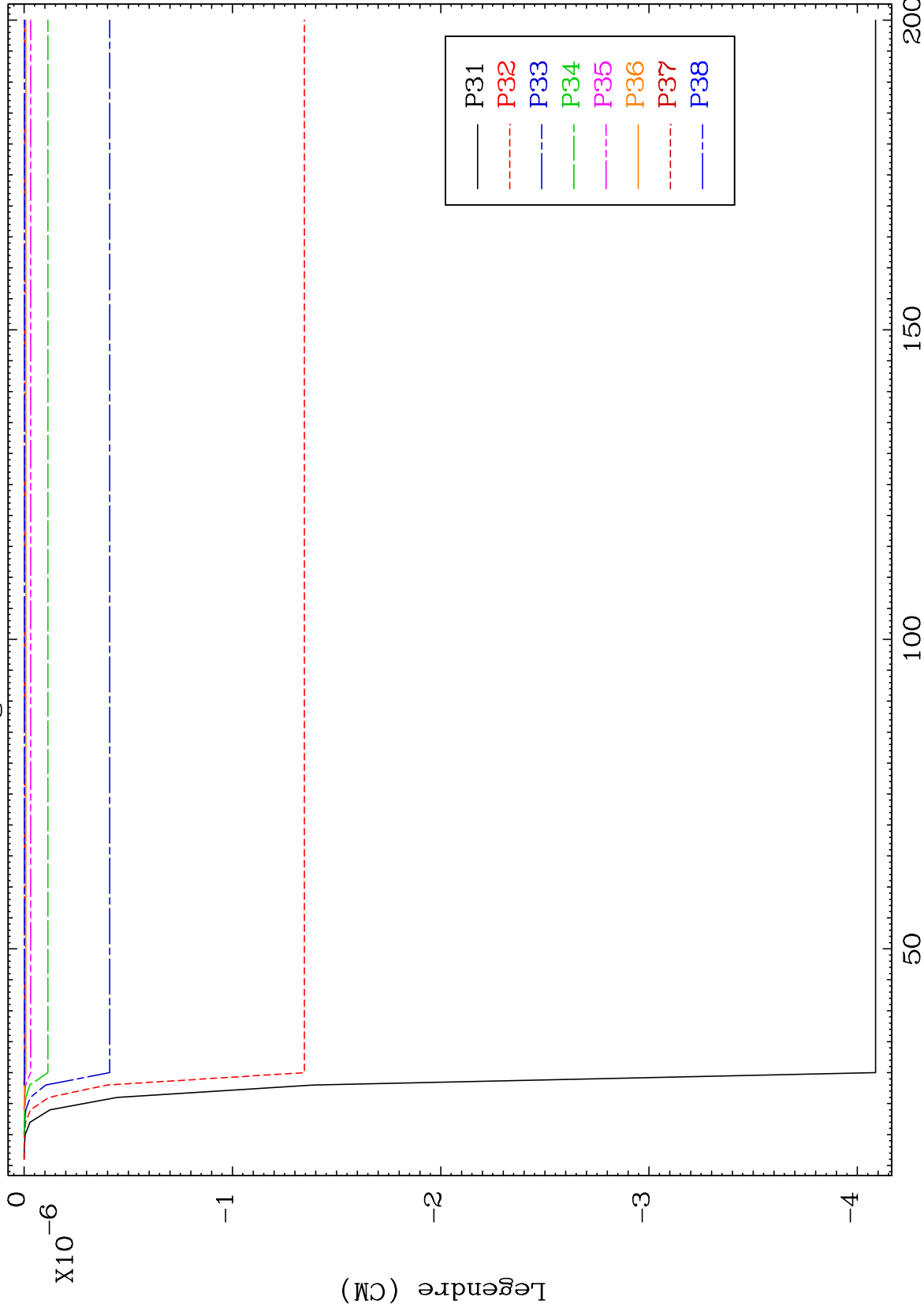
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



43

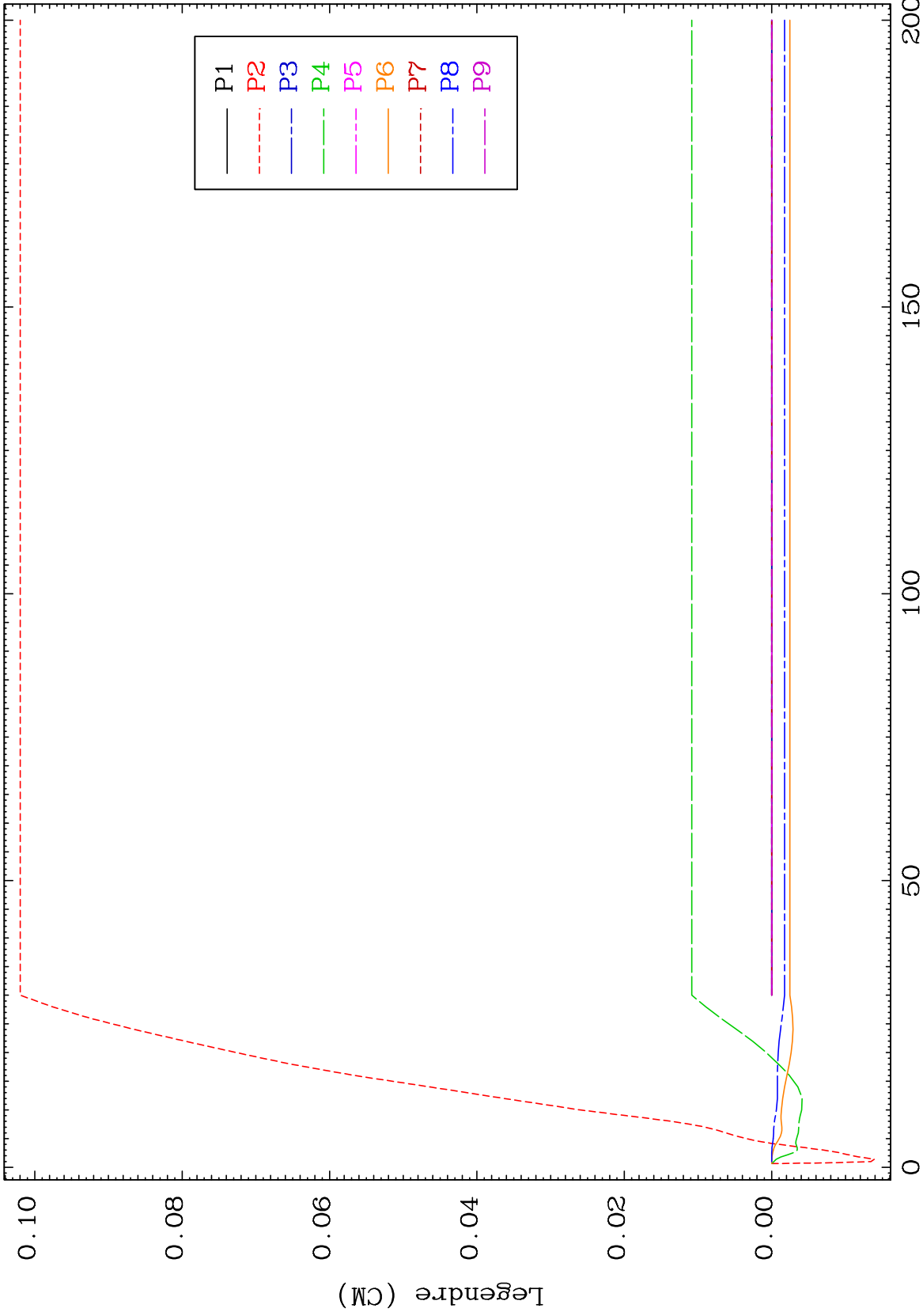
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



44

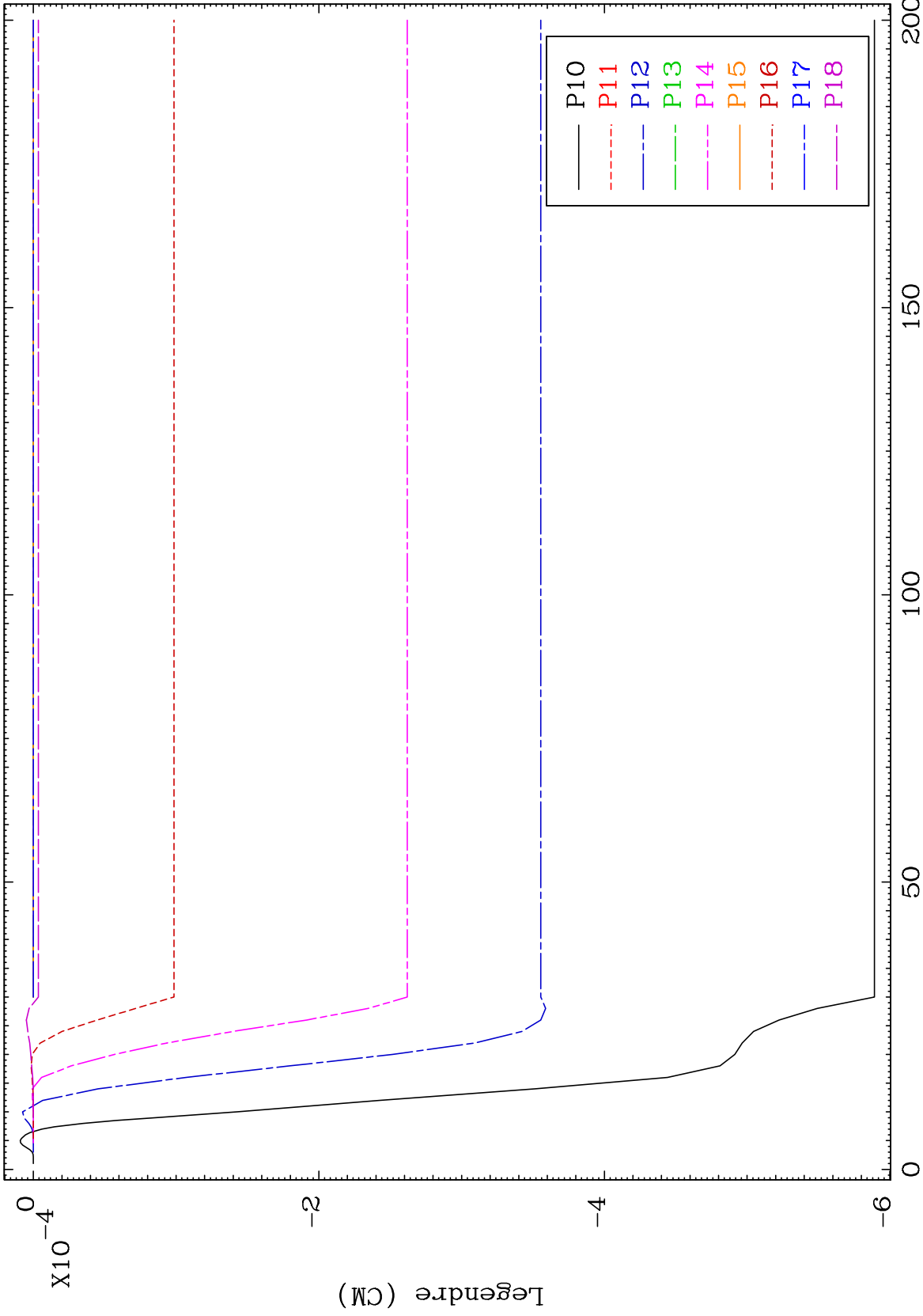
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



45

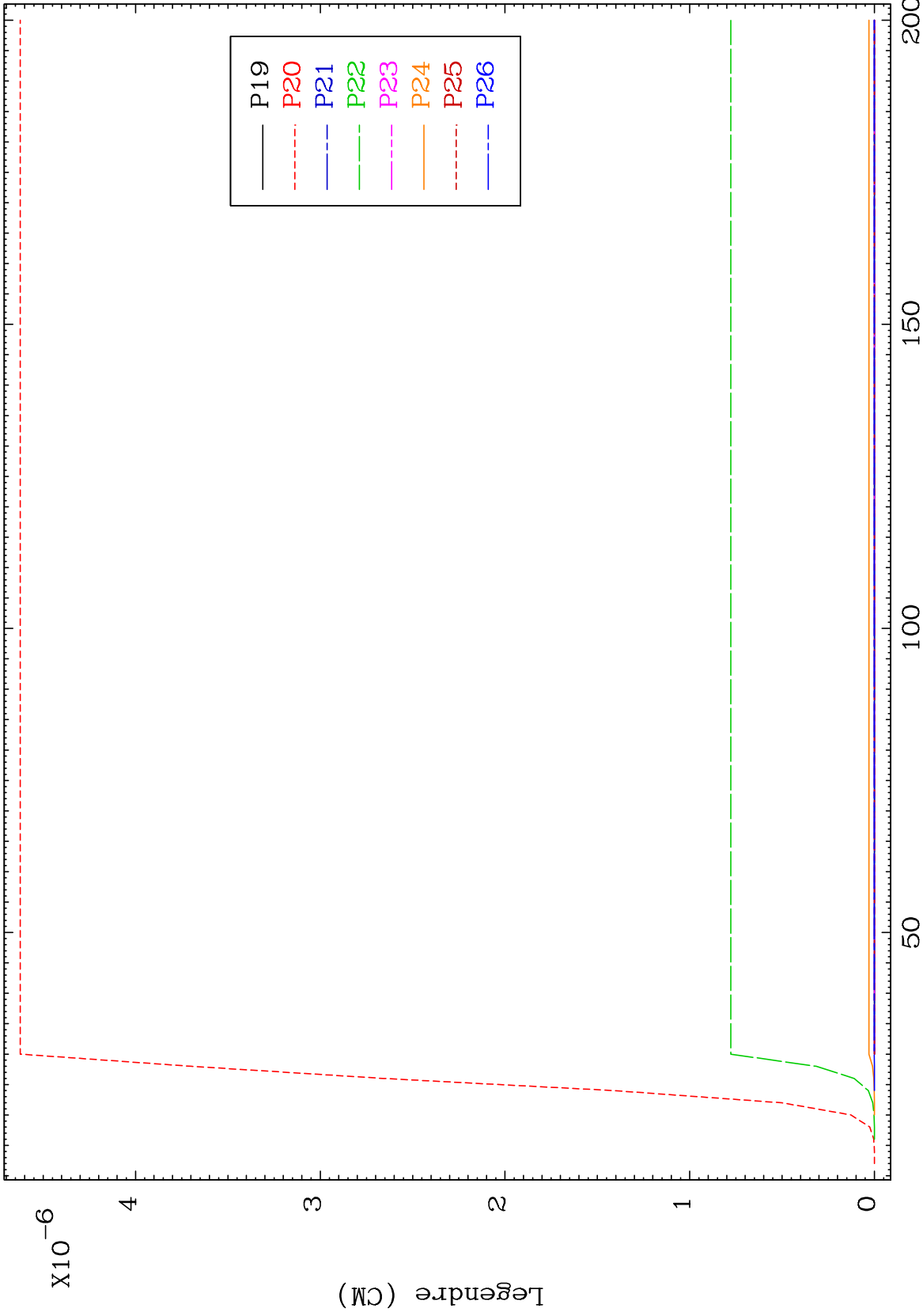
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



46

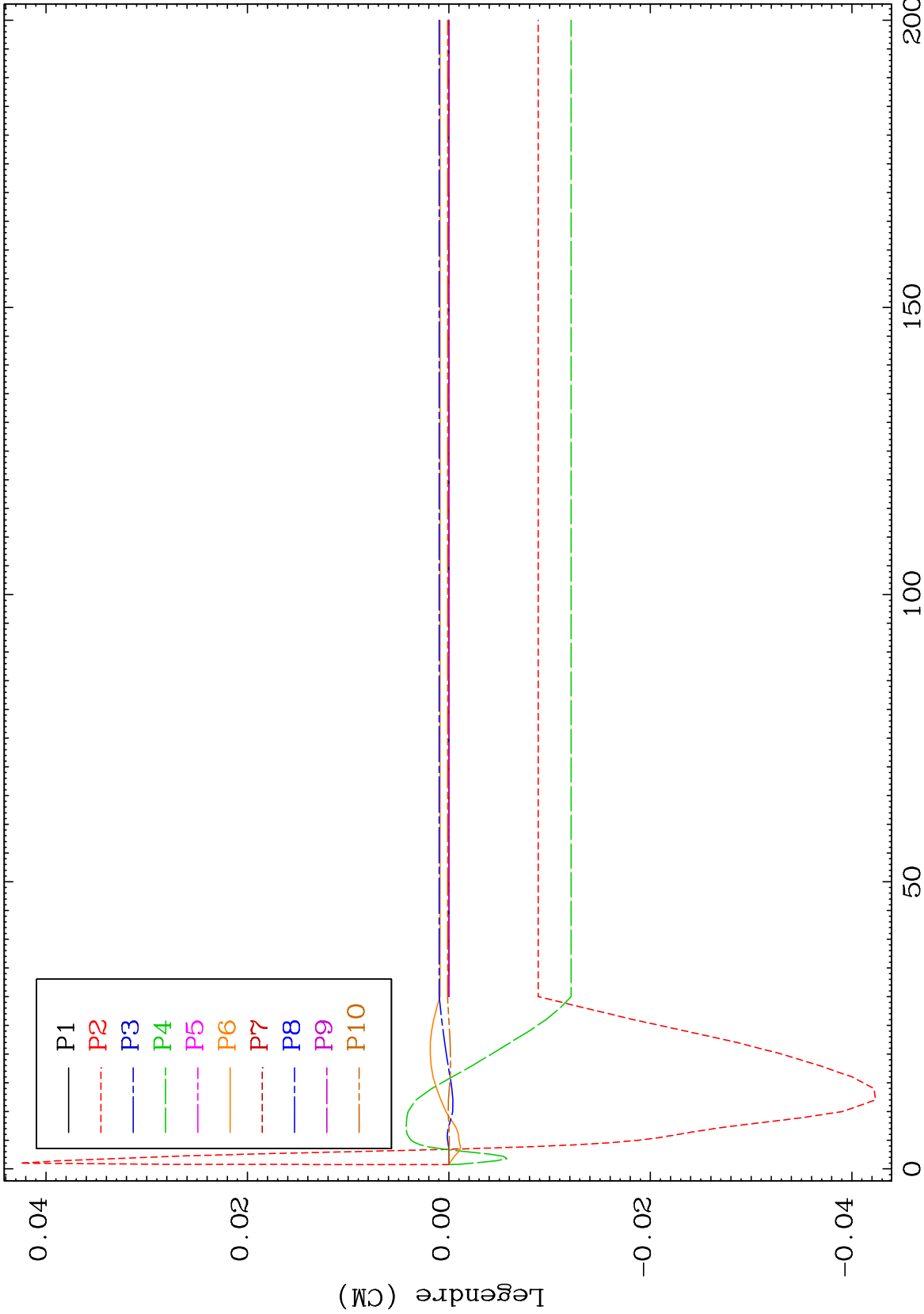
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



47

Incident Energy (MeV)

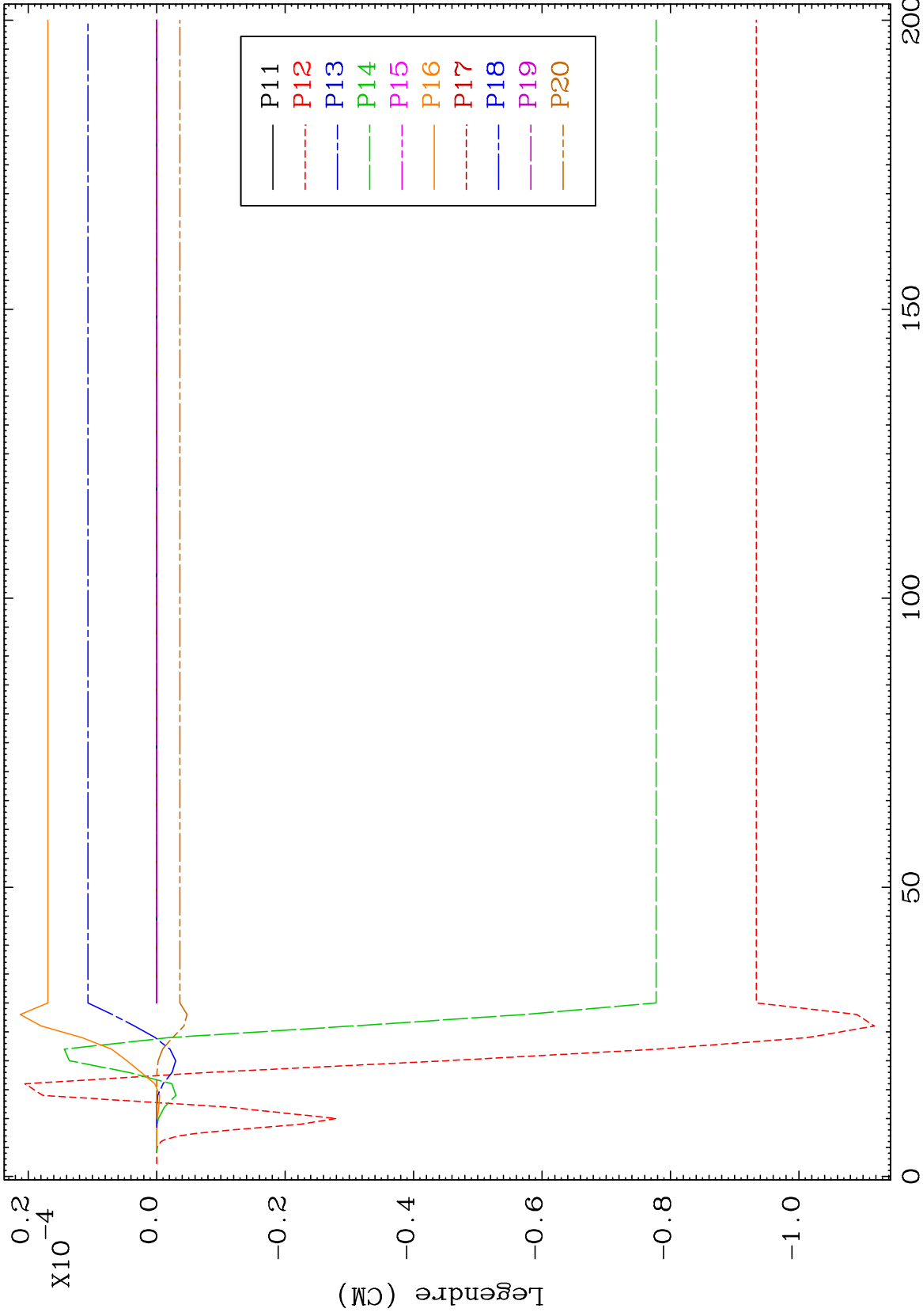
81-T1-196



MAT 8104

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

81-T1-196



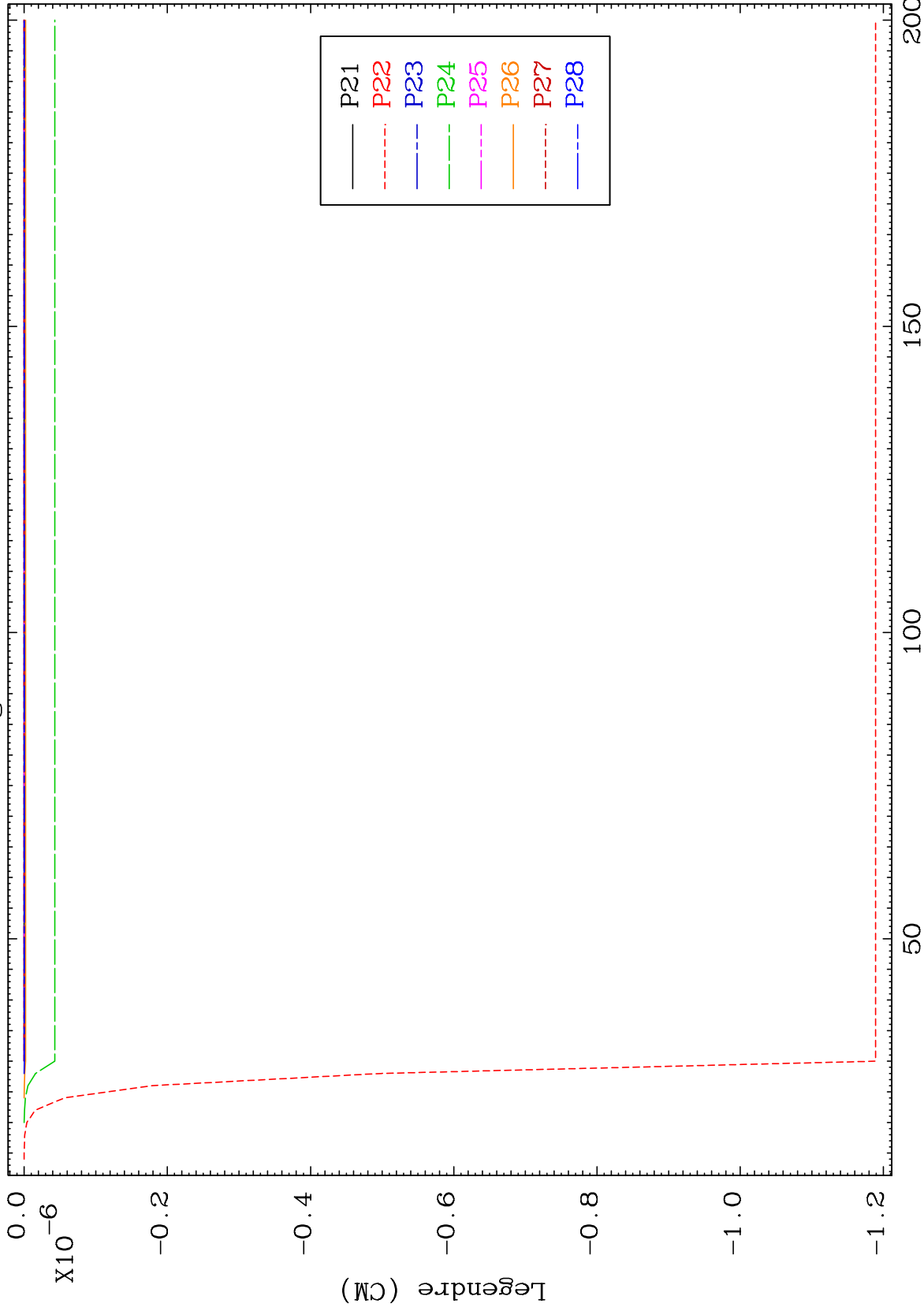
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81-T1-196

MAT 8104

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

81-T1-196



49

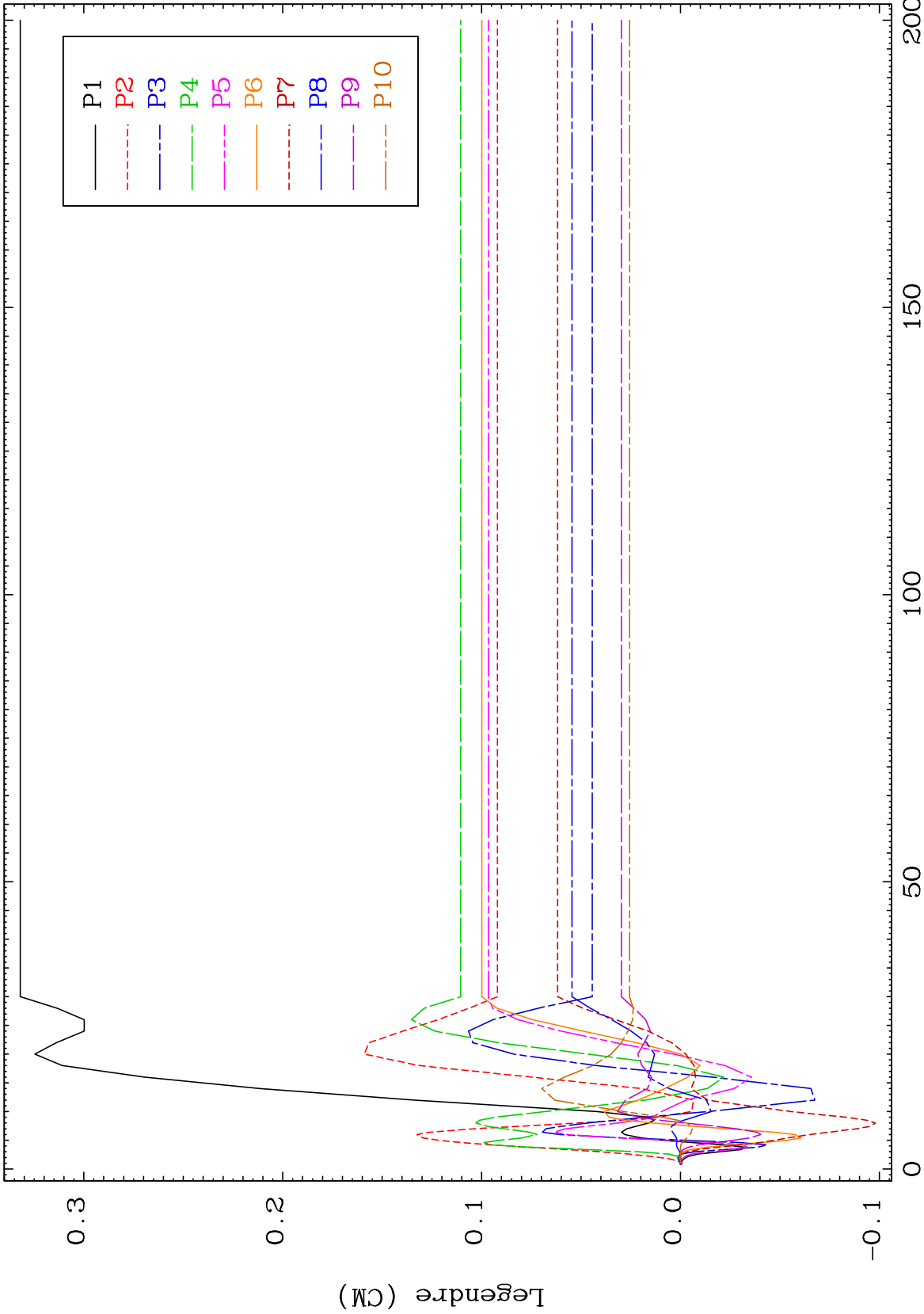
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



50

50

100

150

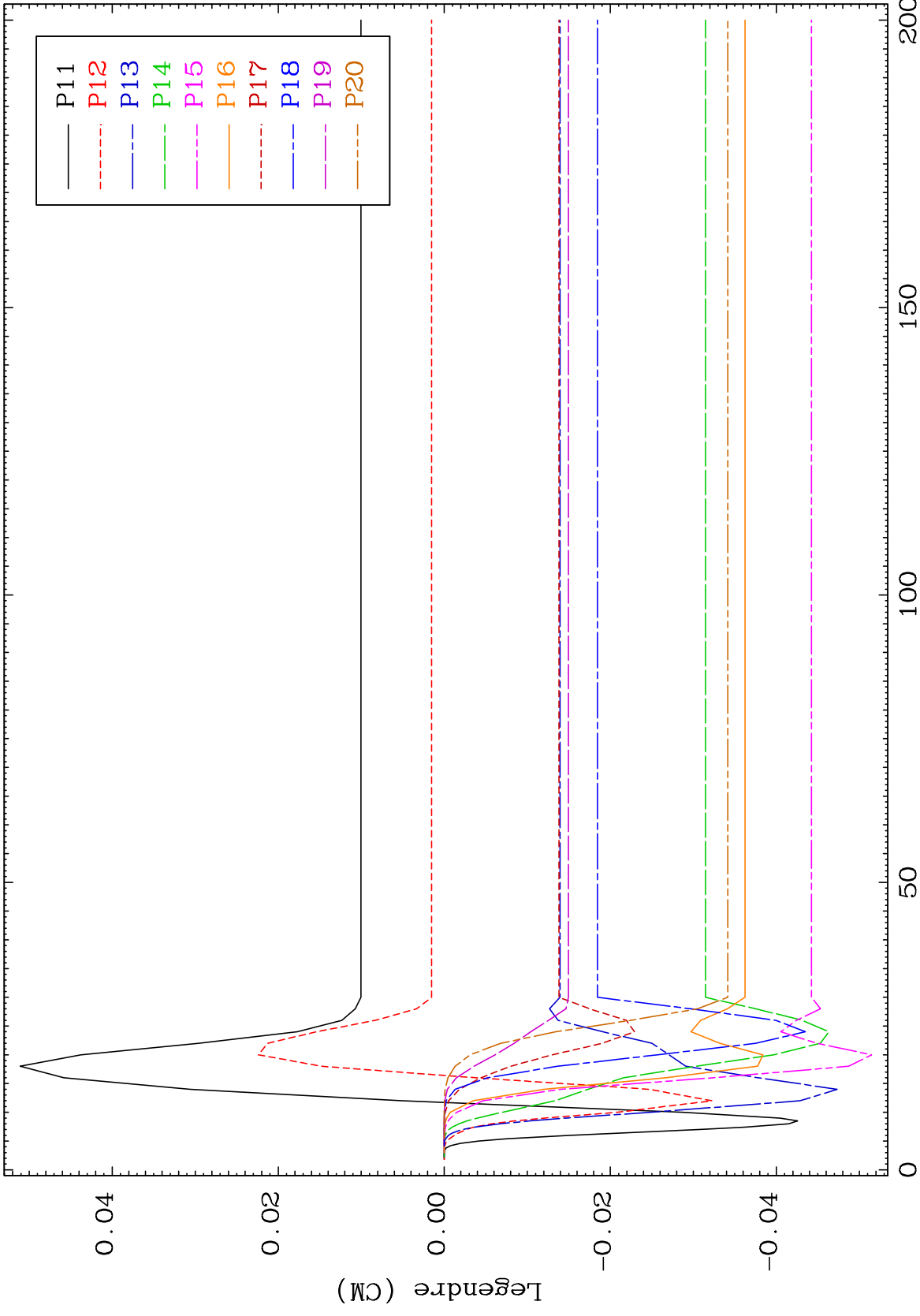
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81-T1-196

MAT 8104

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

81-T1-196



51

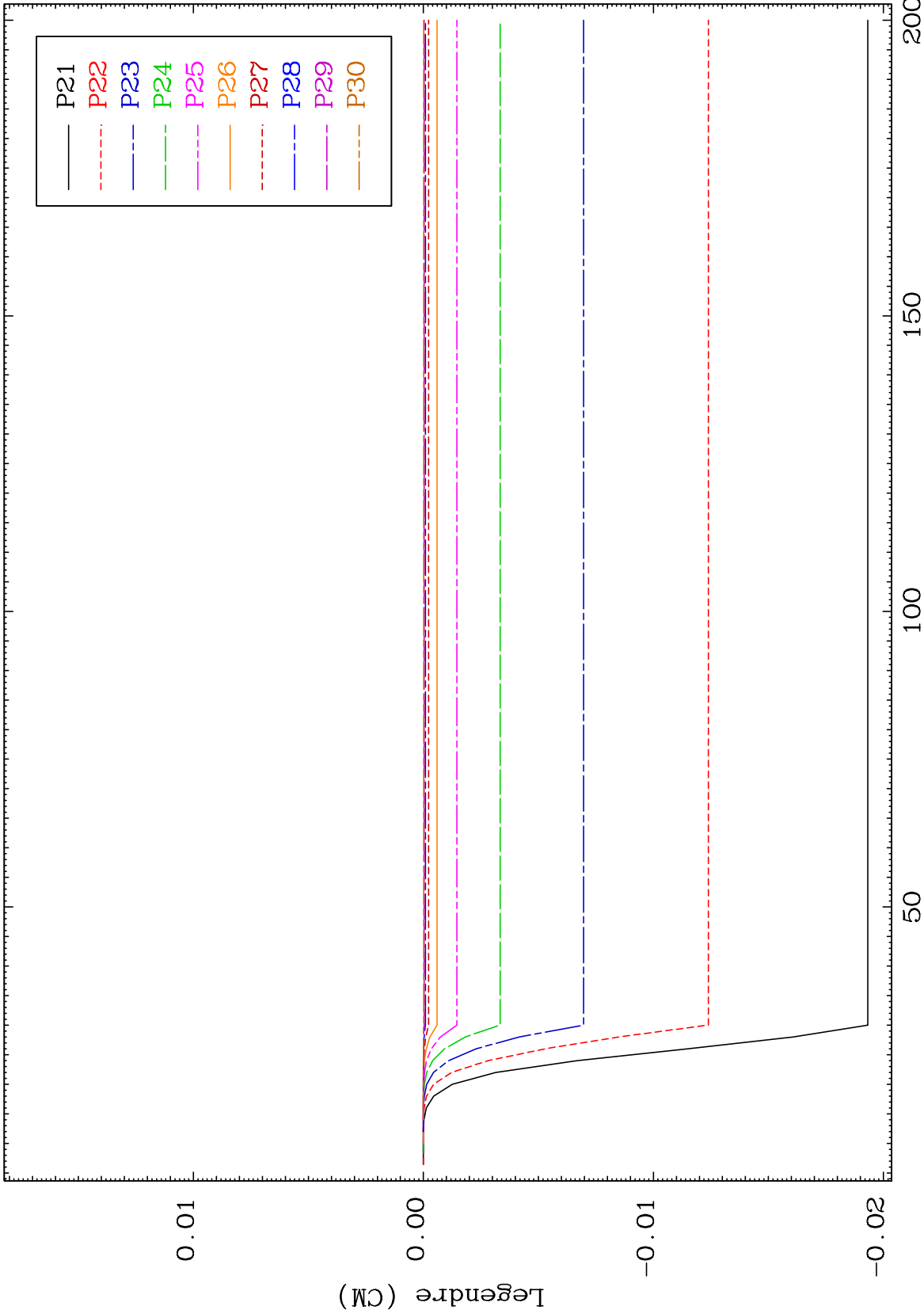
Incident Energy (MeV)

81-T1-196

MAT 8104

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

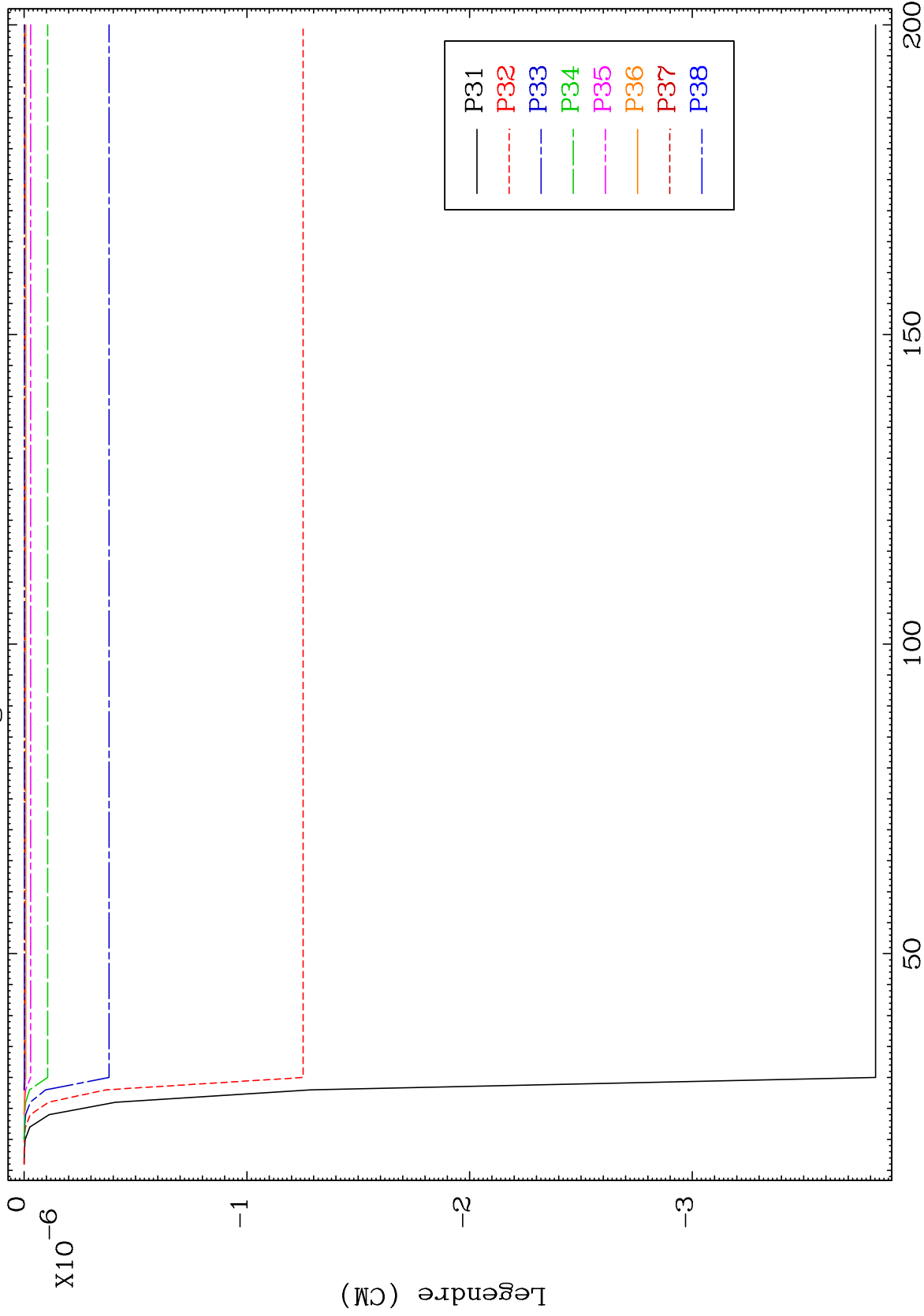
81-T1-196



52

Incident Energy (MeV)

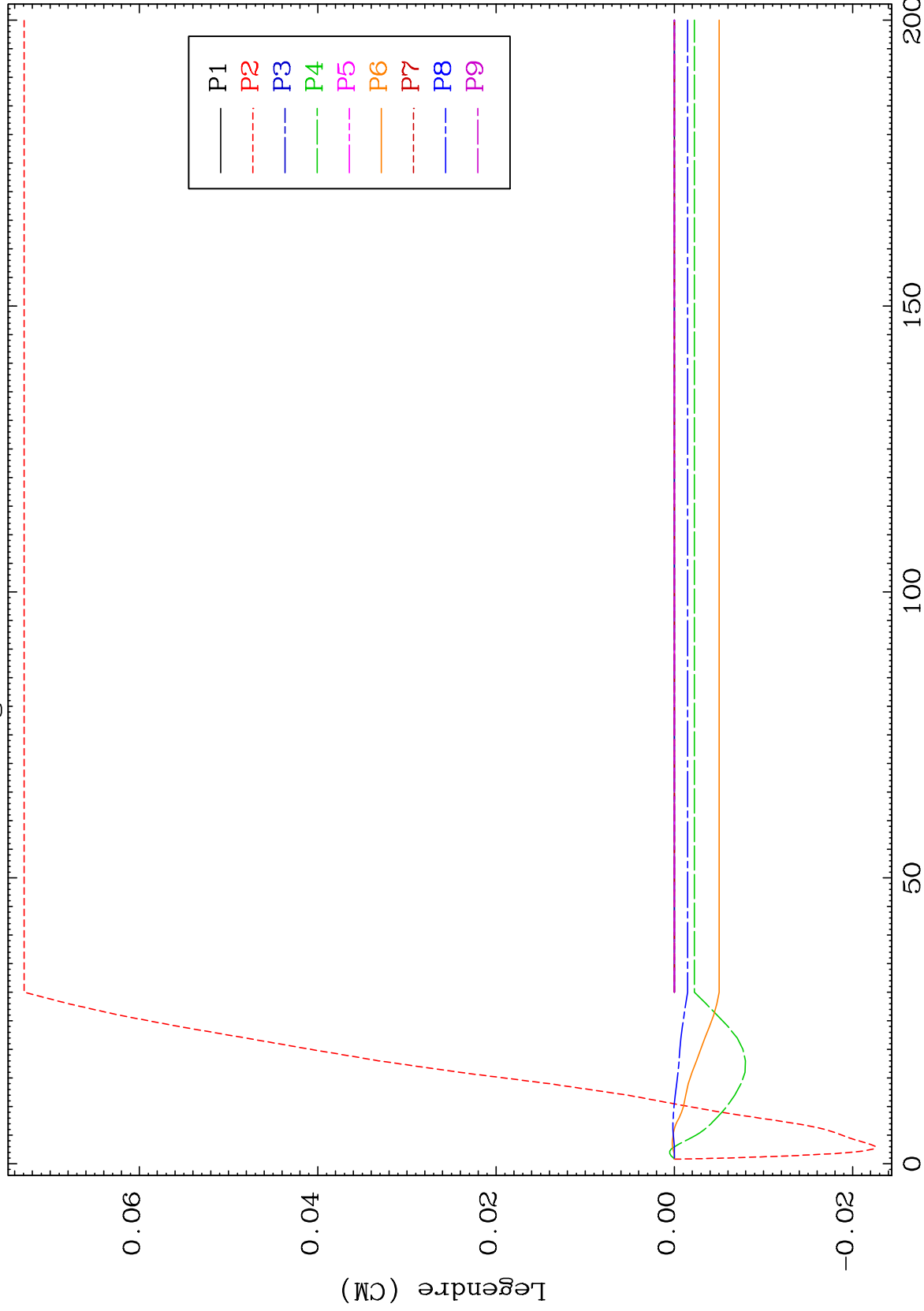
81-T1-196



MAT 8104

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

81-T1-196



54

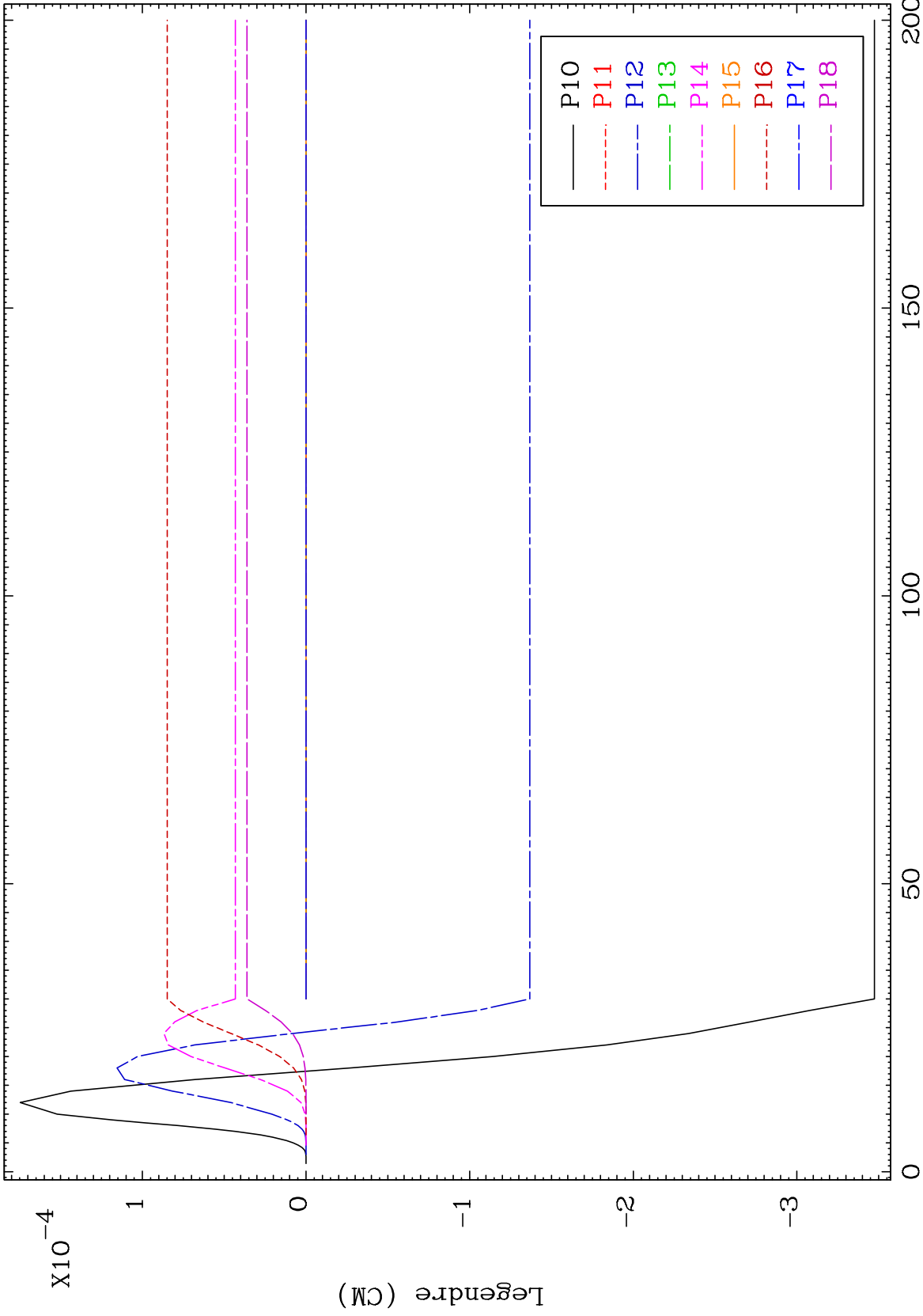
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



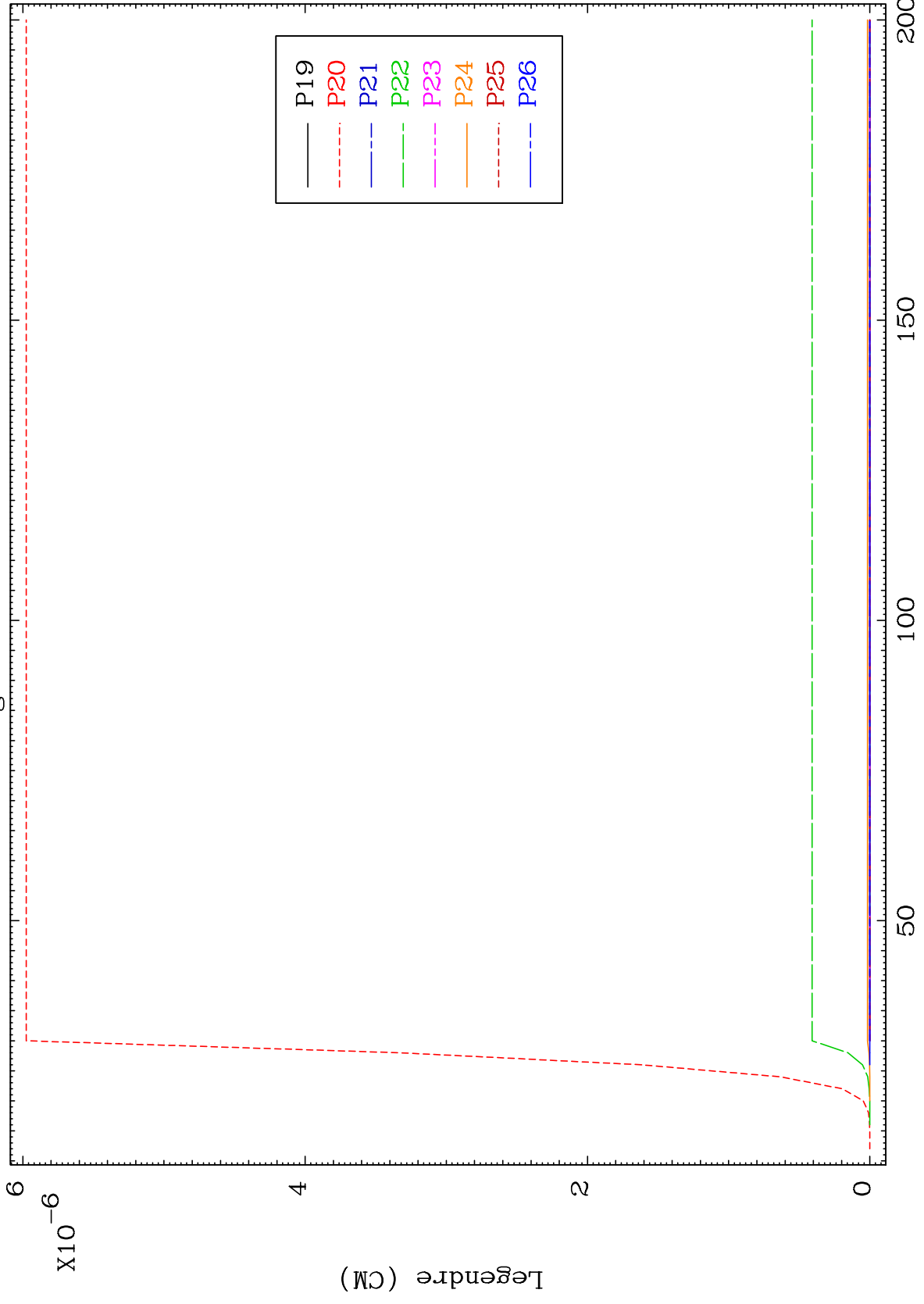
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Incident Energy (MeV)

81-T1-196



MAT 8104 MT= 61 (n,n') Level Legendre Coefficients 81-T1-196

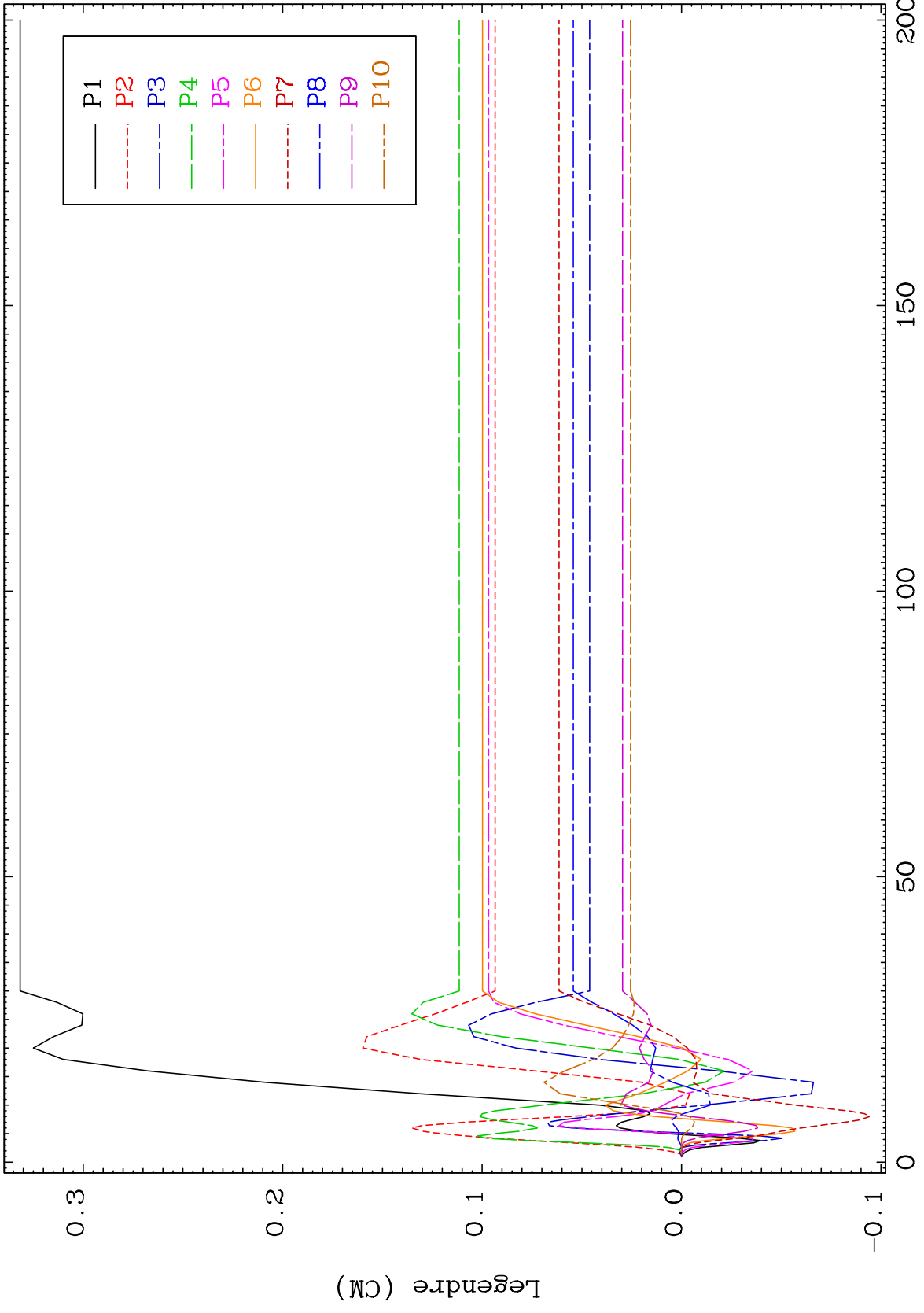


56 Incident Energy (MeV) 81-T1-196

MAT 8104

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

81-T1-196



57

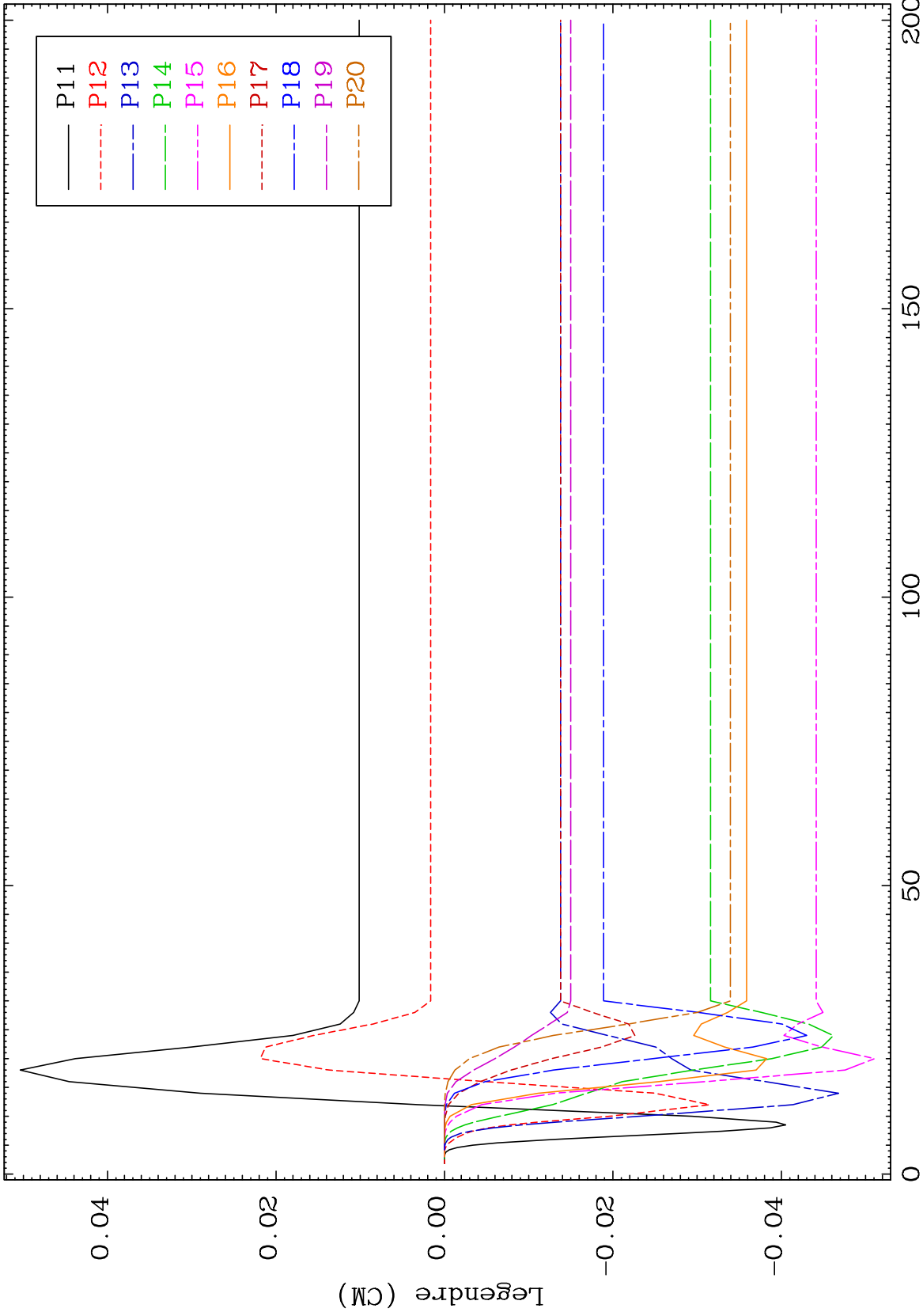
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



58

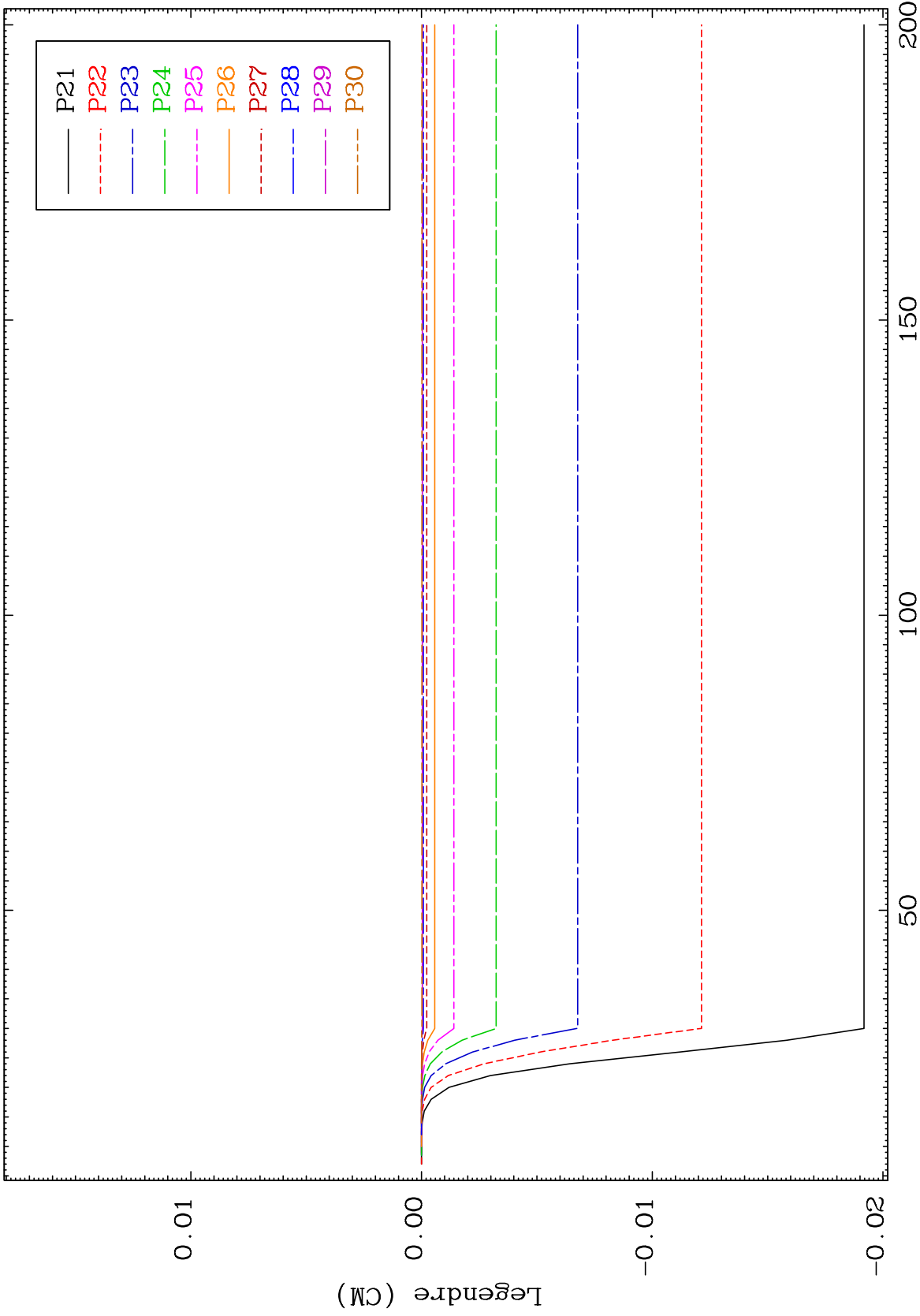
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



59

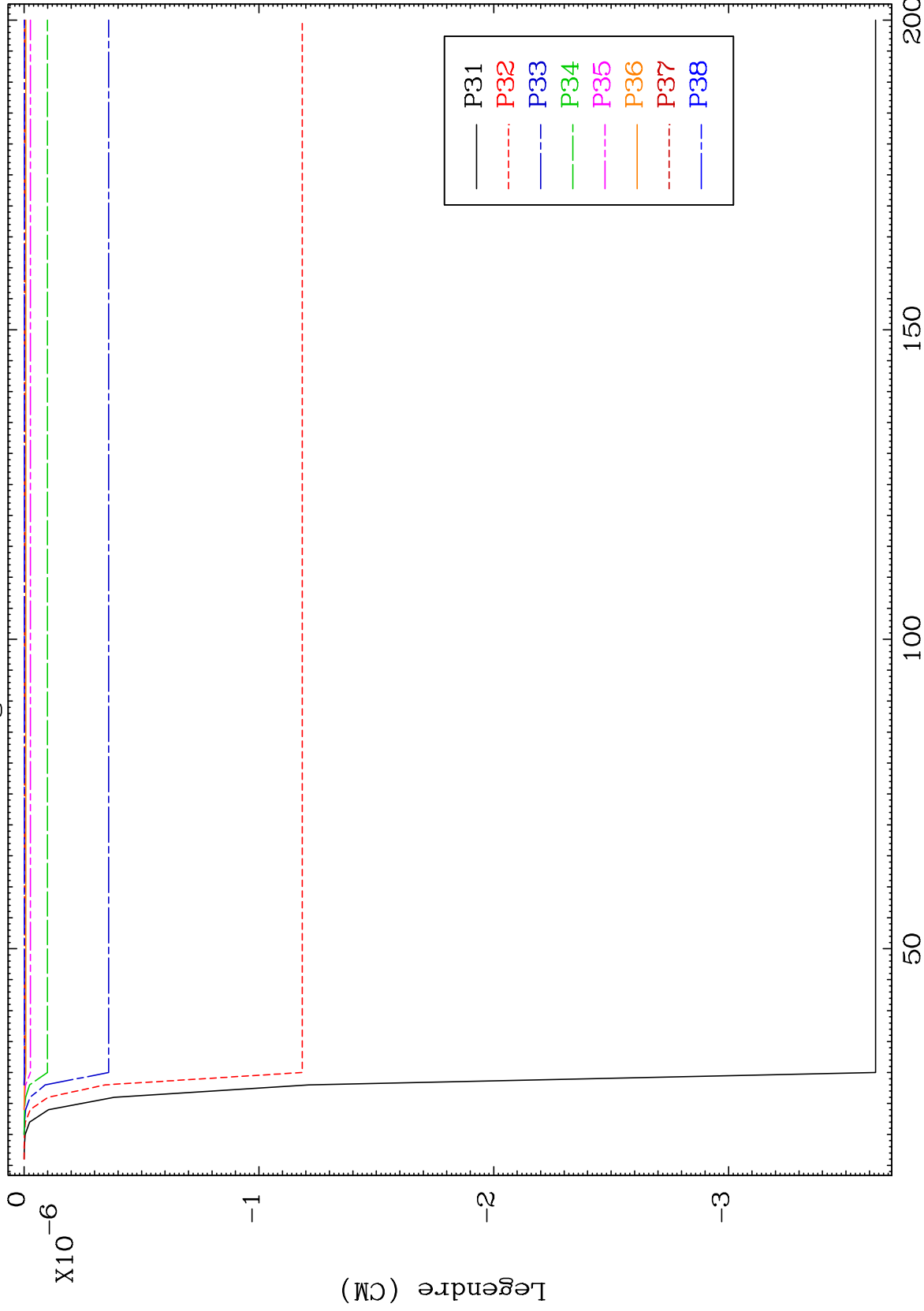
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-T1-196



81-T1-196

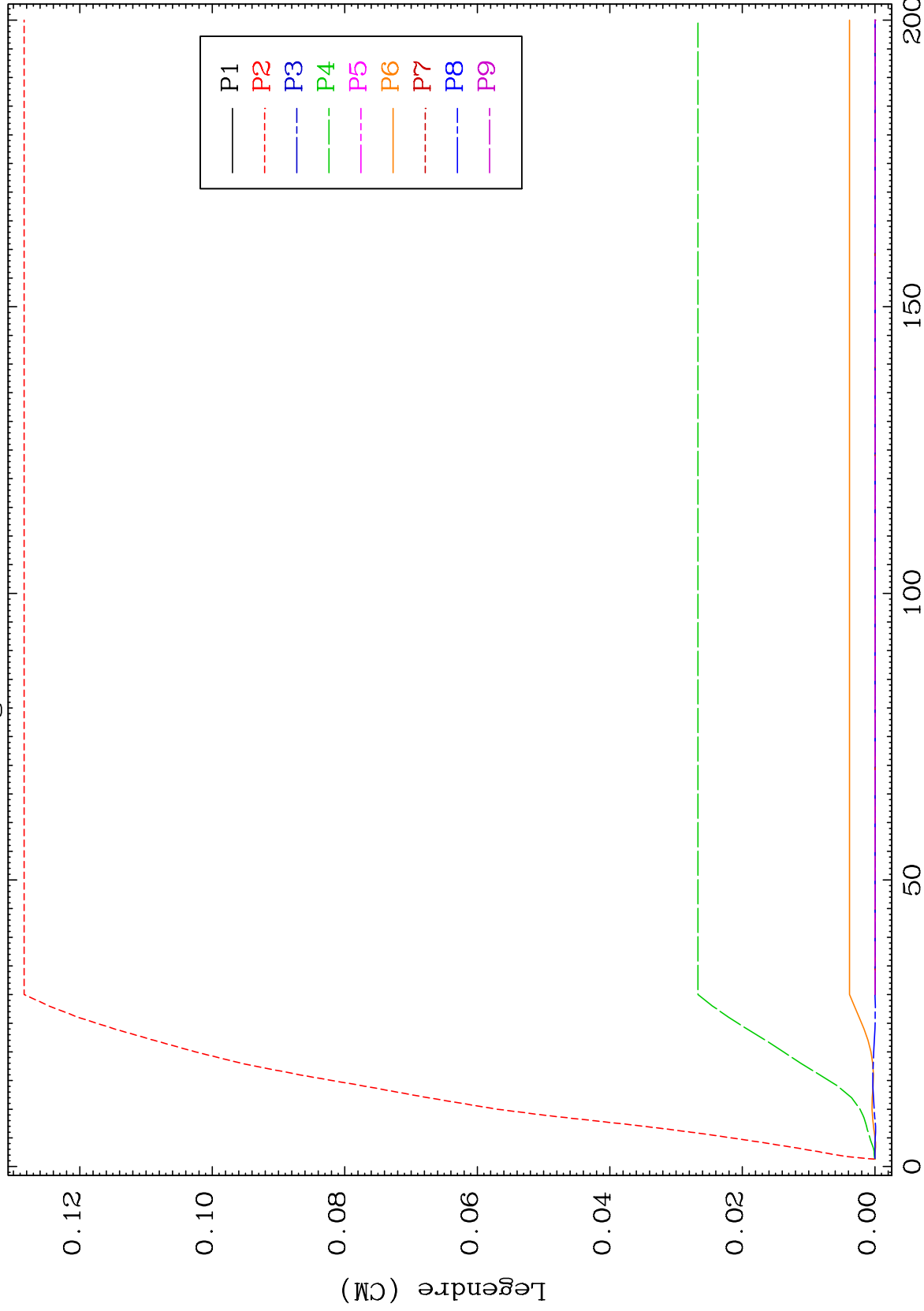
Incident Energy (MeV)

60

MAT 8104

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

81-T1-196



61

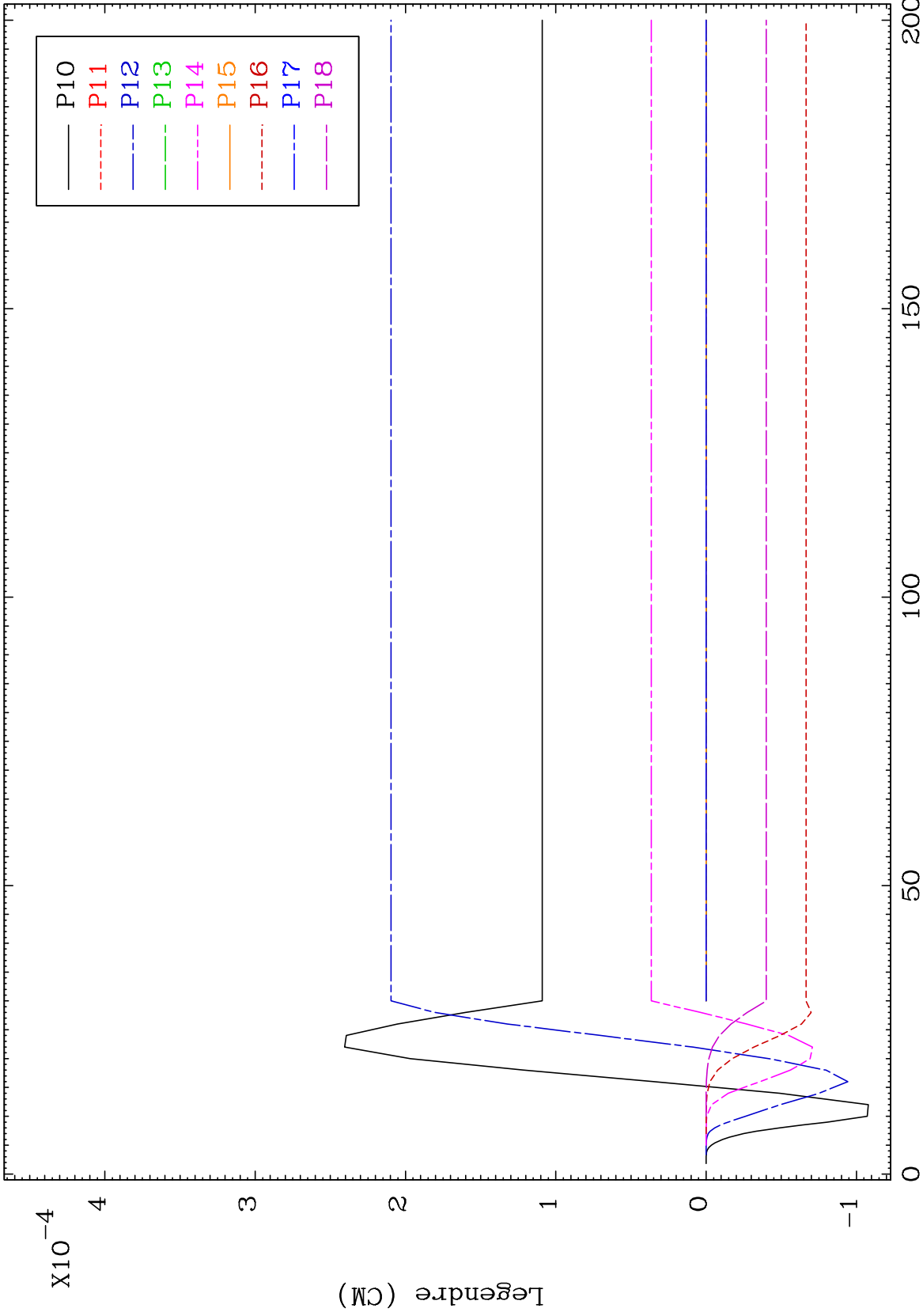
Incident Energy (MeV)

81-T1-196

MAT 8104

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

81-Tl-196



62

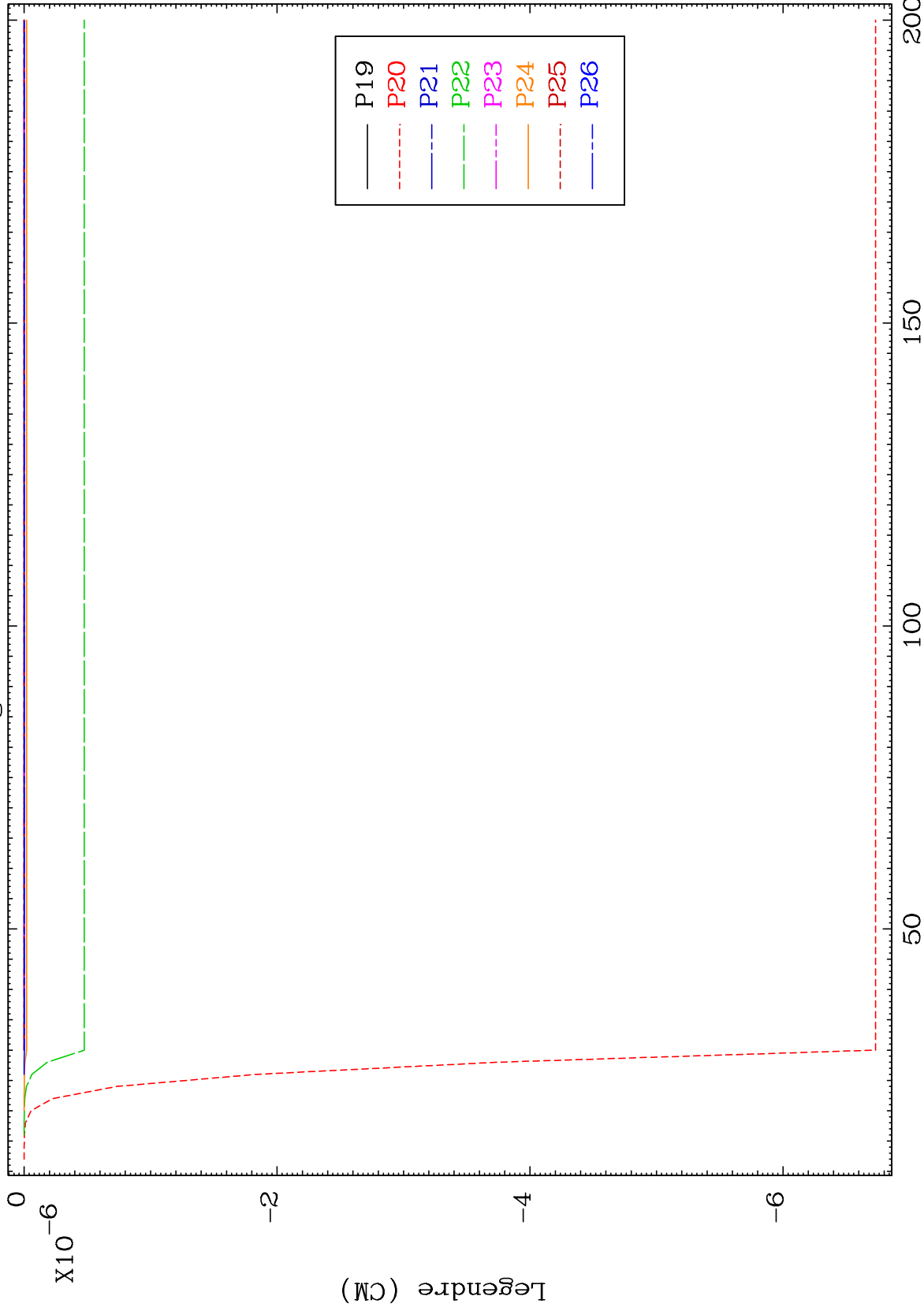
Incident Energy (MeV)

81-Tl-196

MAT 8104

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

81-T1-196



63

Incident Energy (MeV)

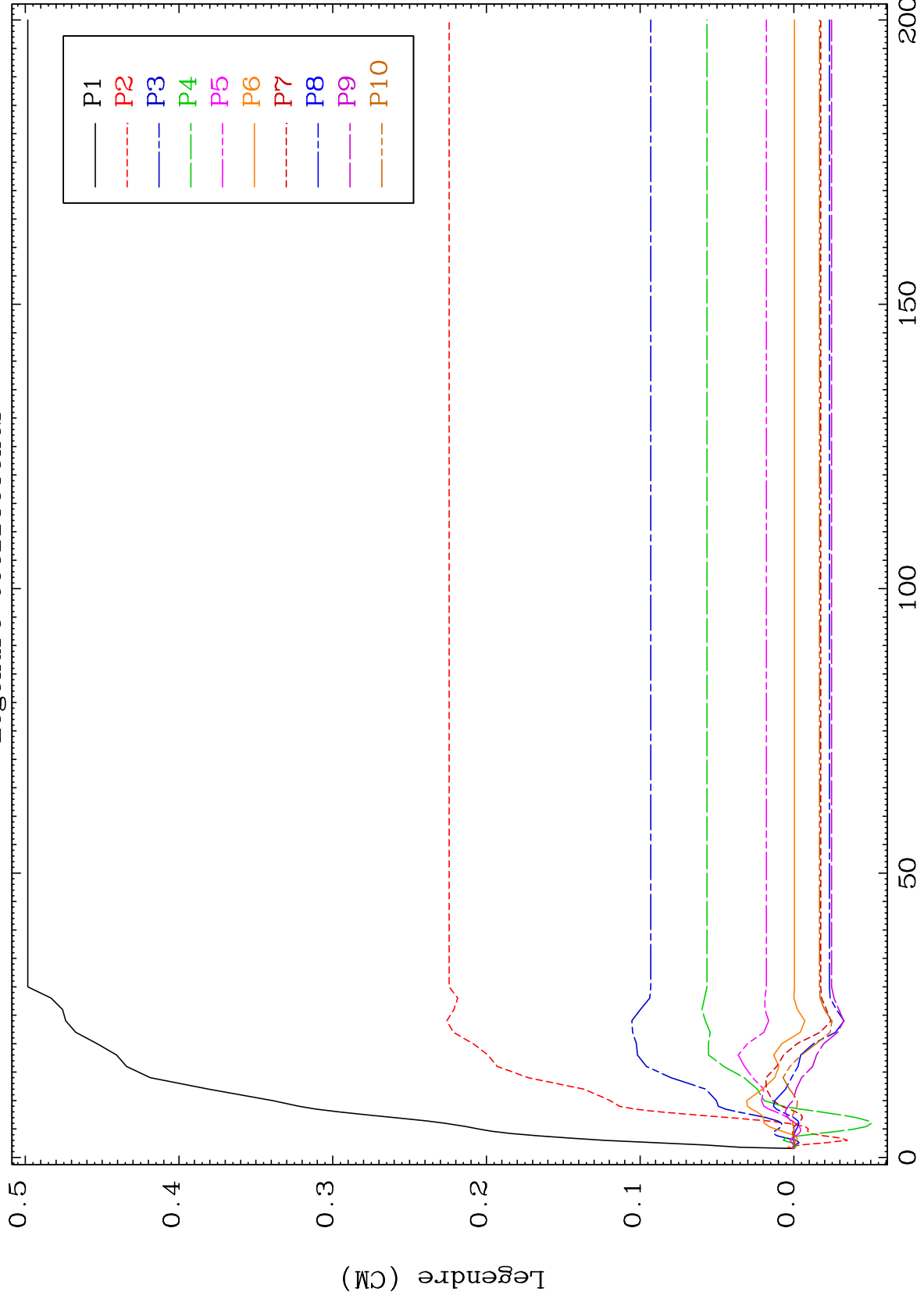
81-T1-196



MAT 8104

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

81-T1-196



64

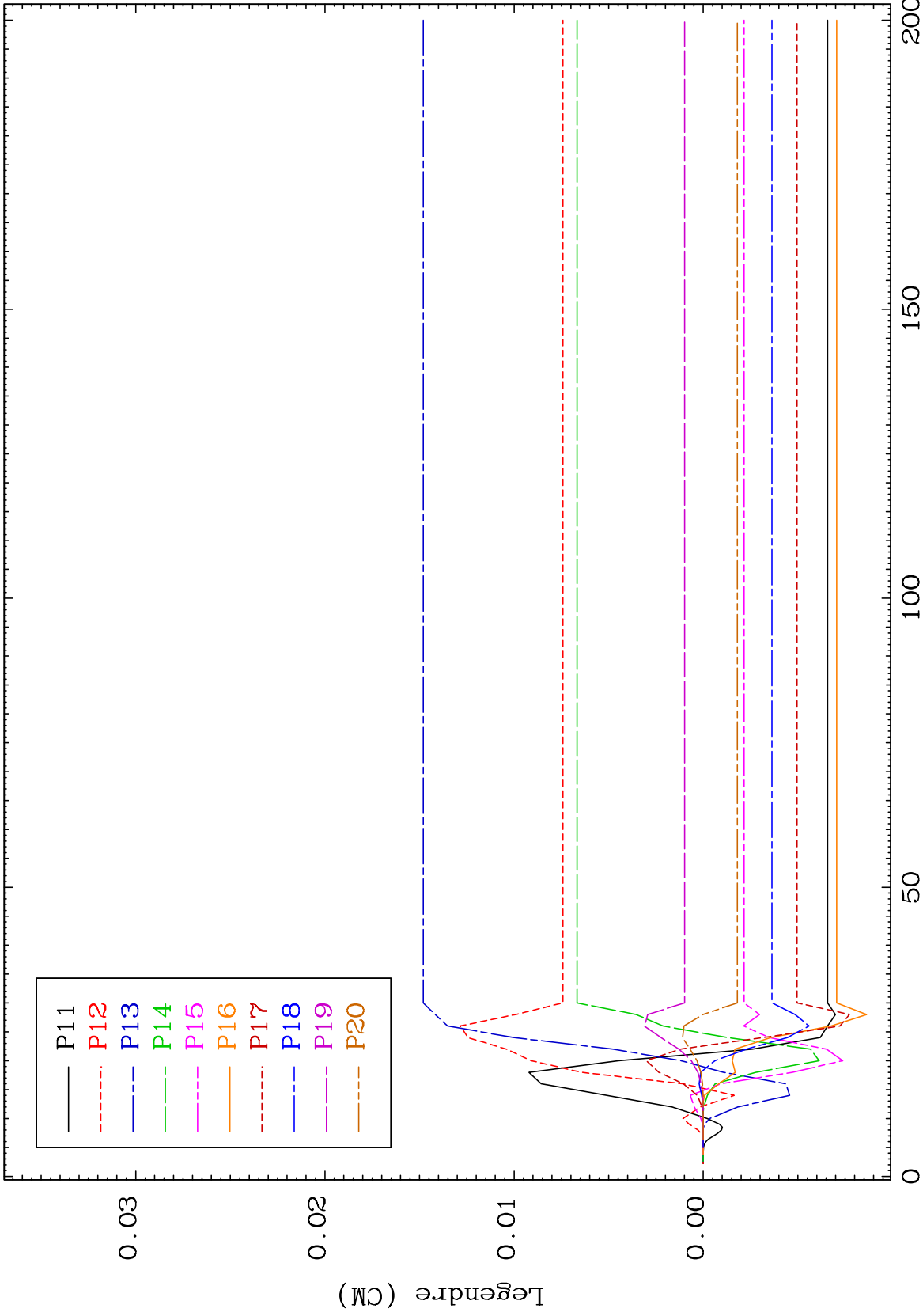
Incident Energy (MeV)

81-T1-196

MAT 8104

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

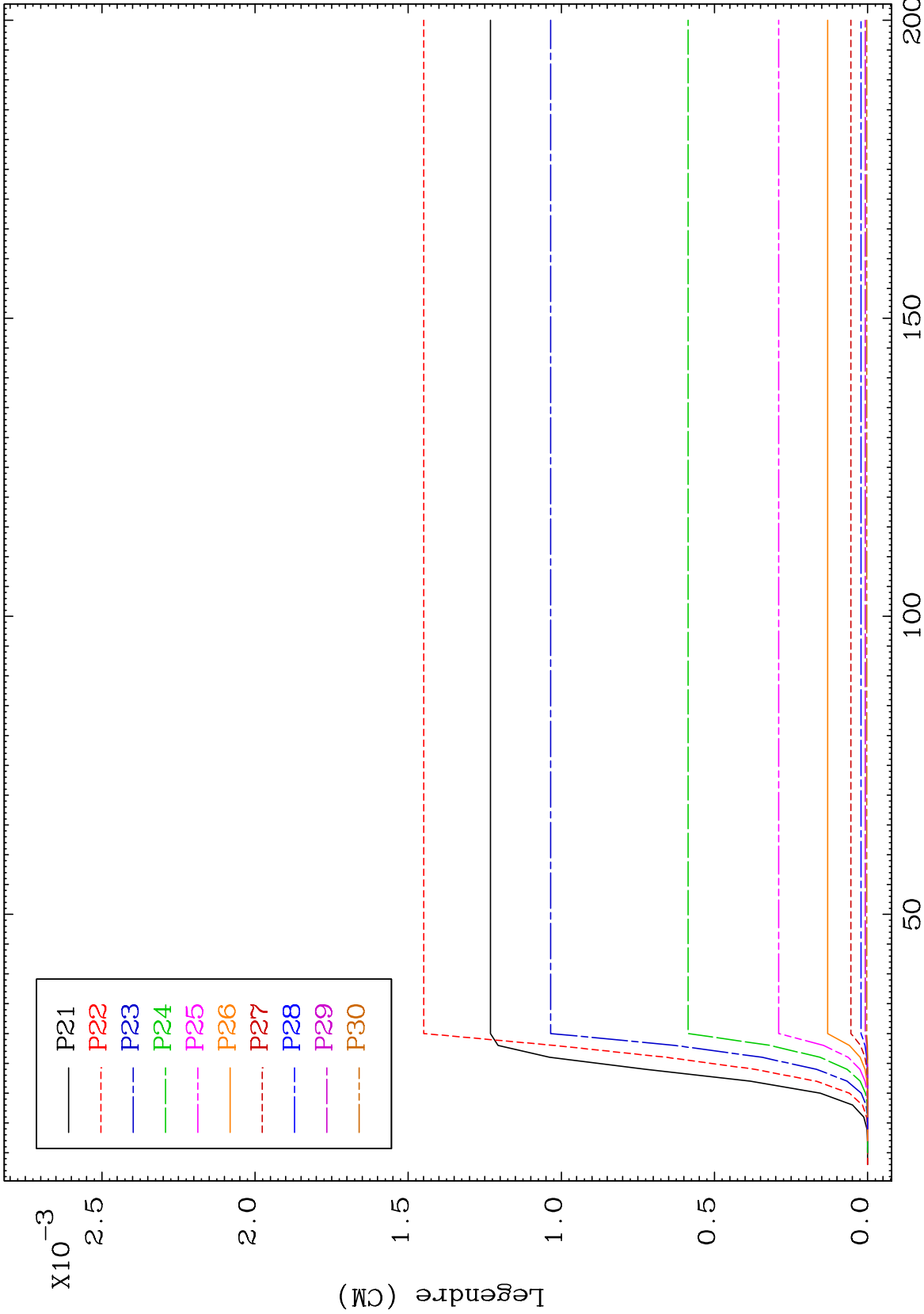
81-T1-196



65

Incident Energy (MeV)

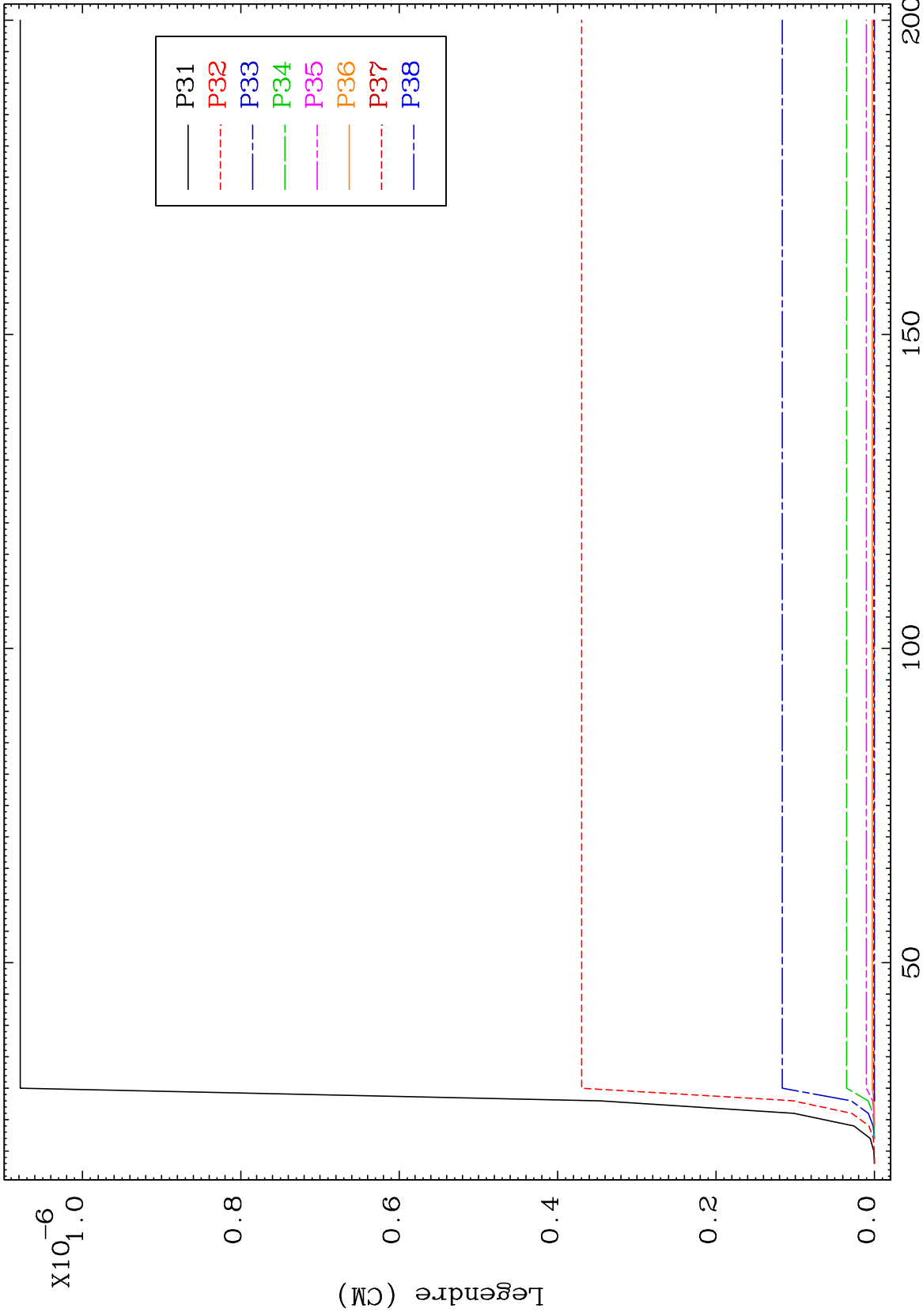
81-T1-196



MAT 8104

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

81-T1-196



67

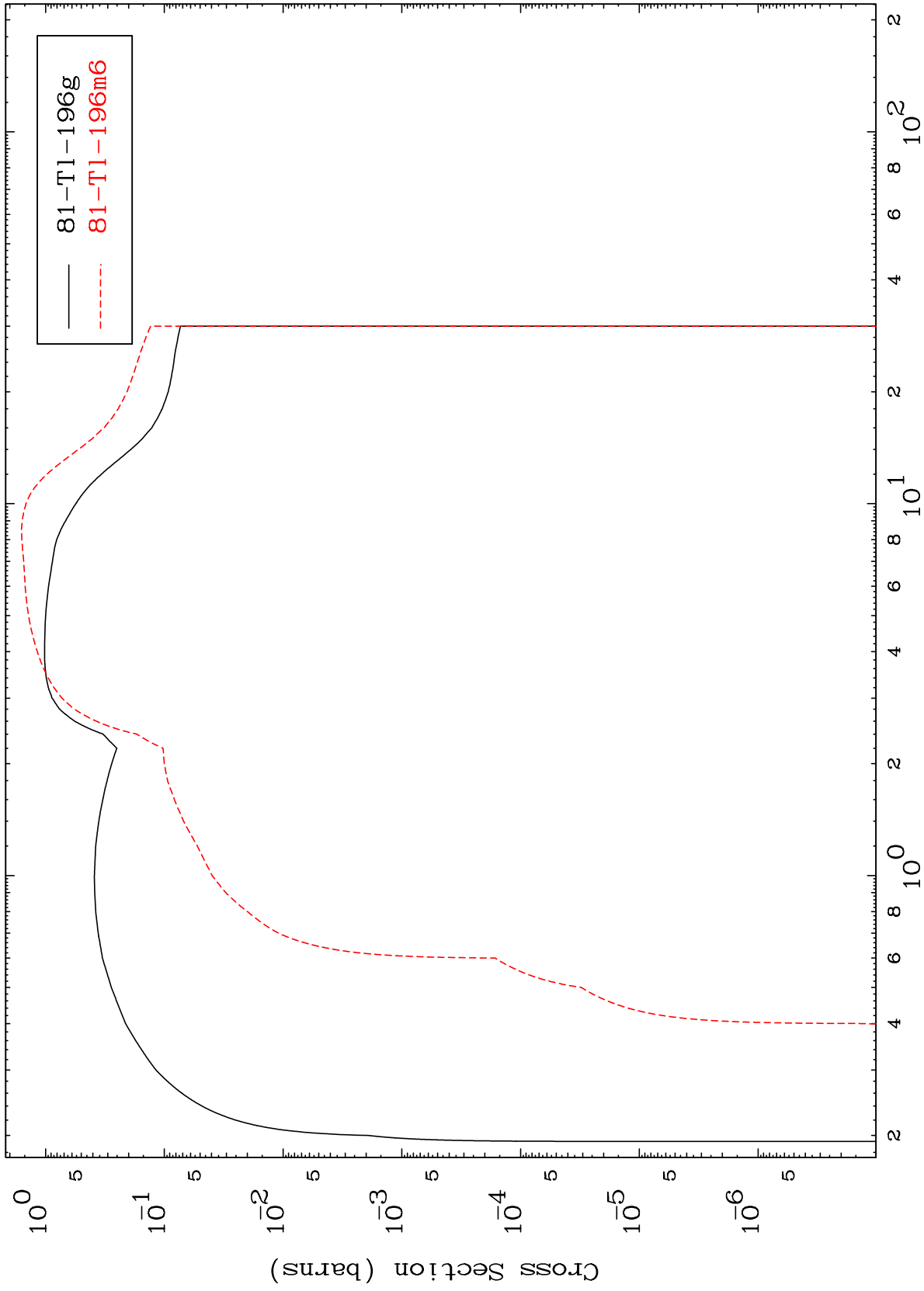
Incident Energy (MeV)

81-T1-196

MAT 8104

81-Tl-196

Inelastic  
Radionuclide Production Cross Section



68

81-Tl-196

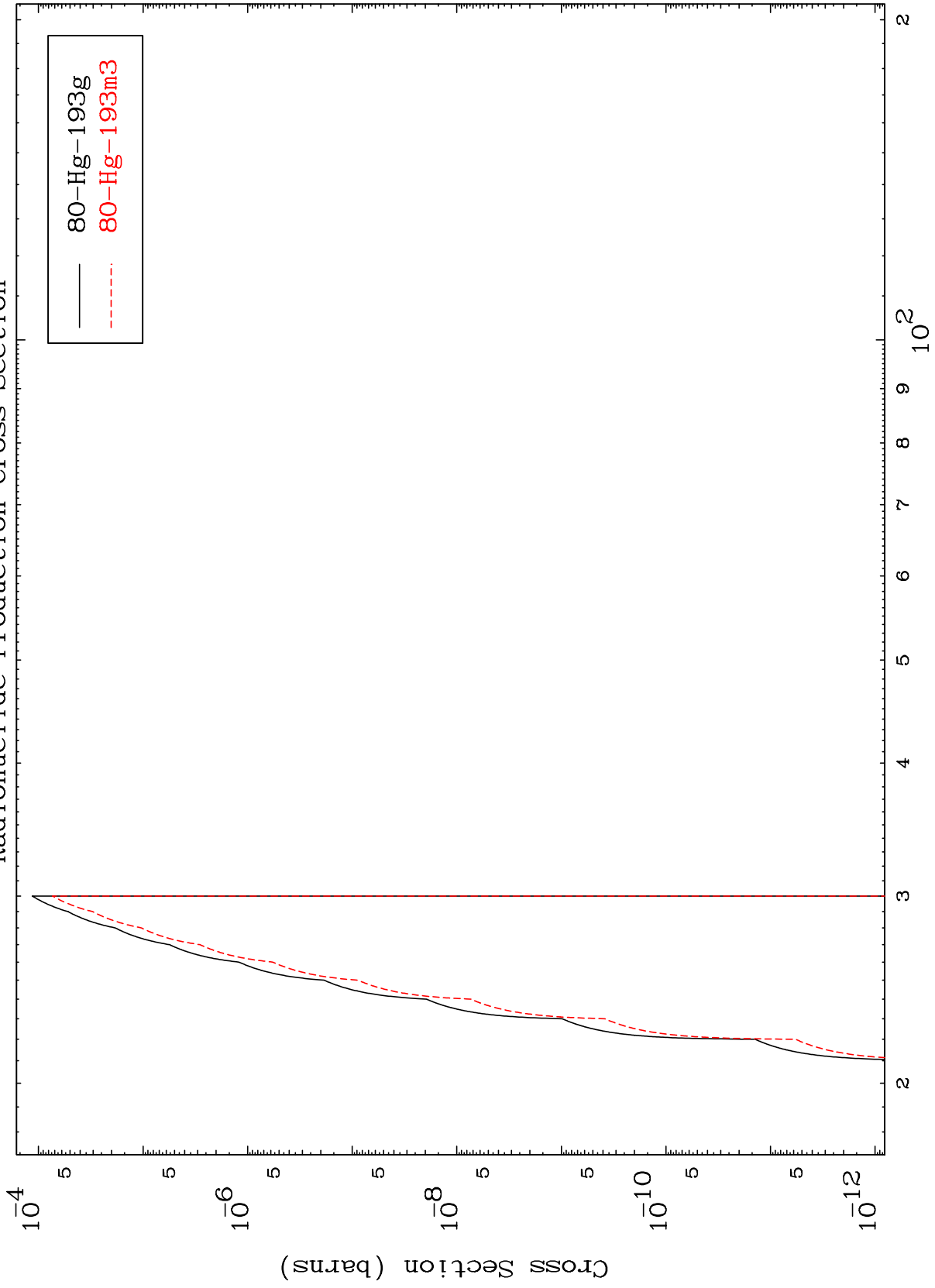
Incident Energy (MeV)

MAT 8104

(n,2n) d

81-Tl-196

Radionuclide Production Cross Section



69

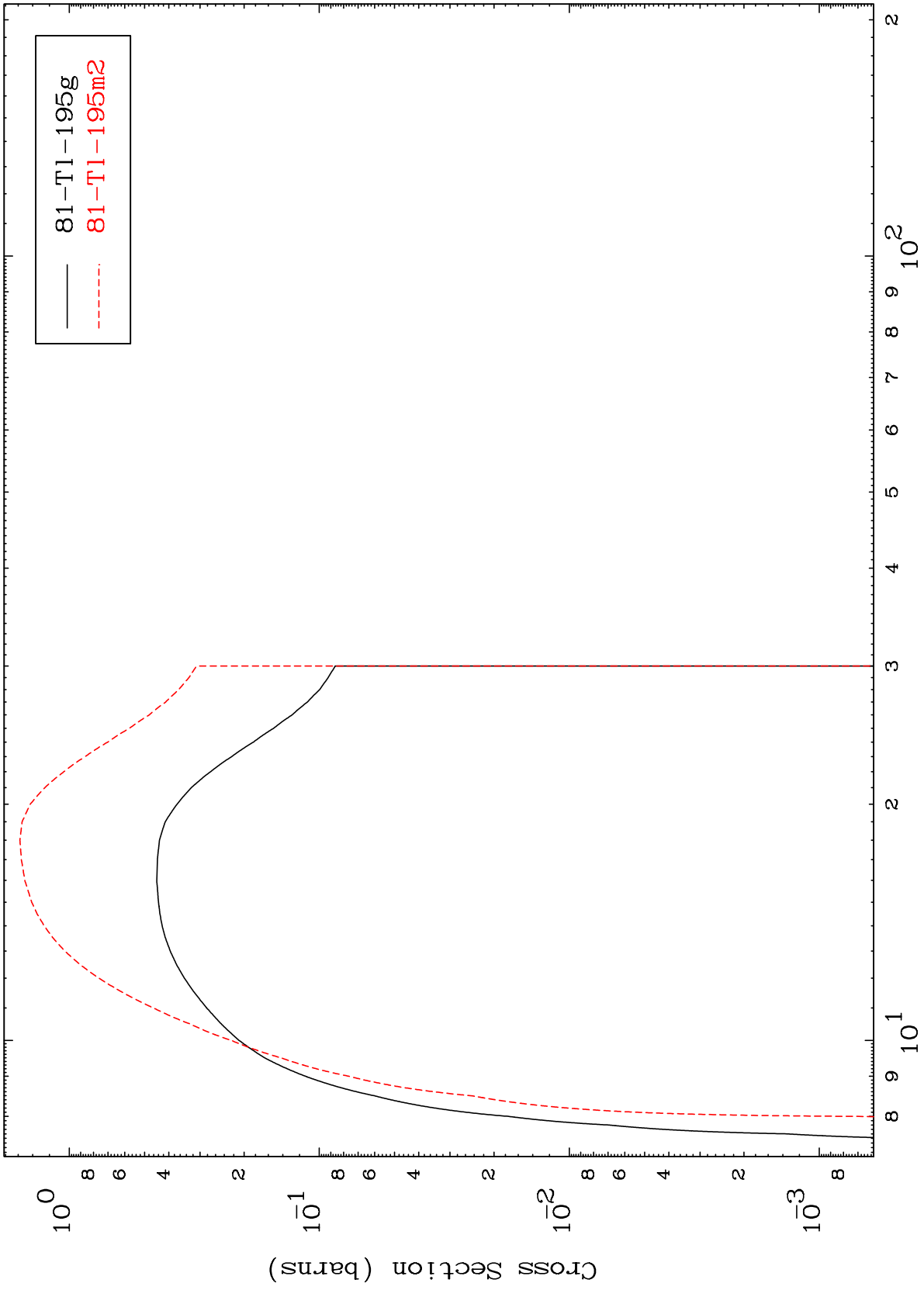
Incident Energy (MeV)

81-Tl-196

MAT 8104

81-Tl-196

(n,2n)  
Radionuclide Production Cross Section



70

Incident Energy (MeV)

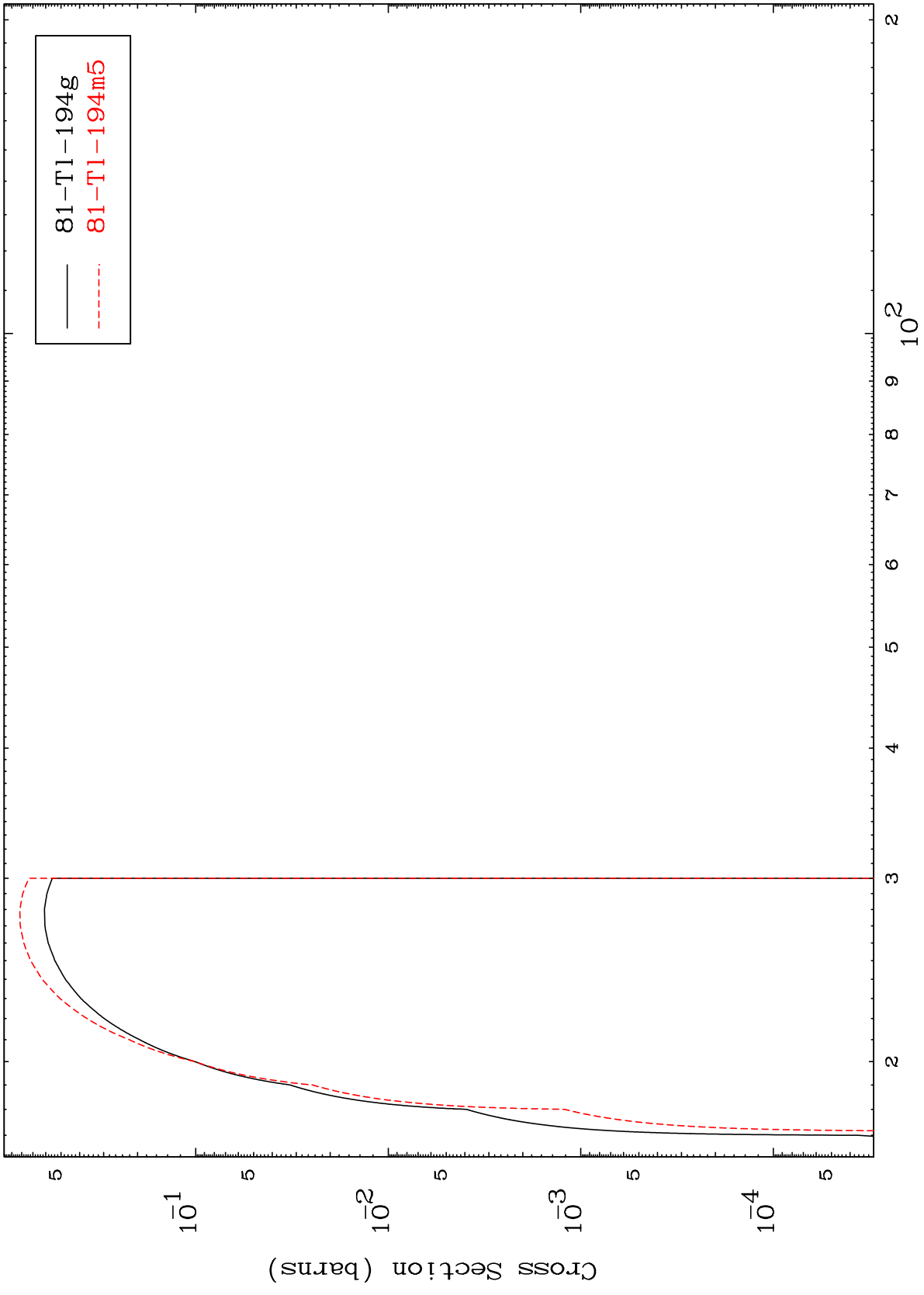
81-Tl-196

MAT 8104

(n,3n)

81-Tl-196

Radionuclide Production Cross Section



71

Incident Energy (MeV)

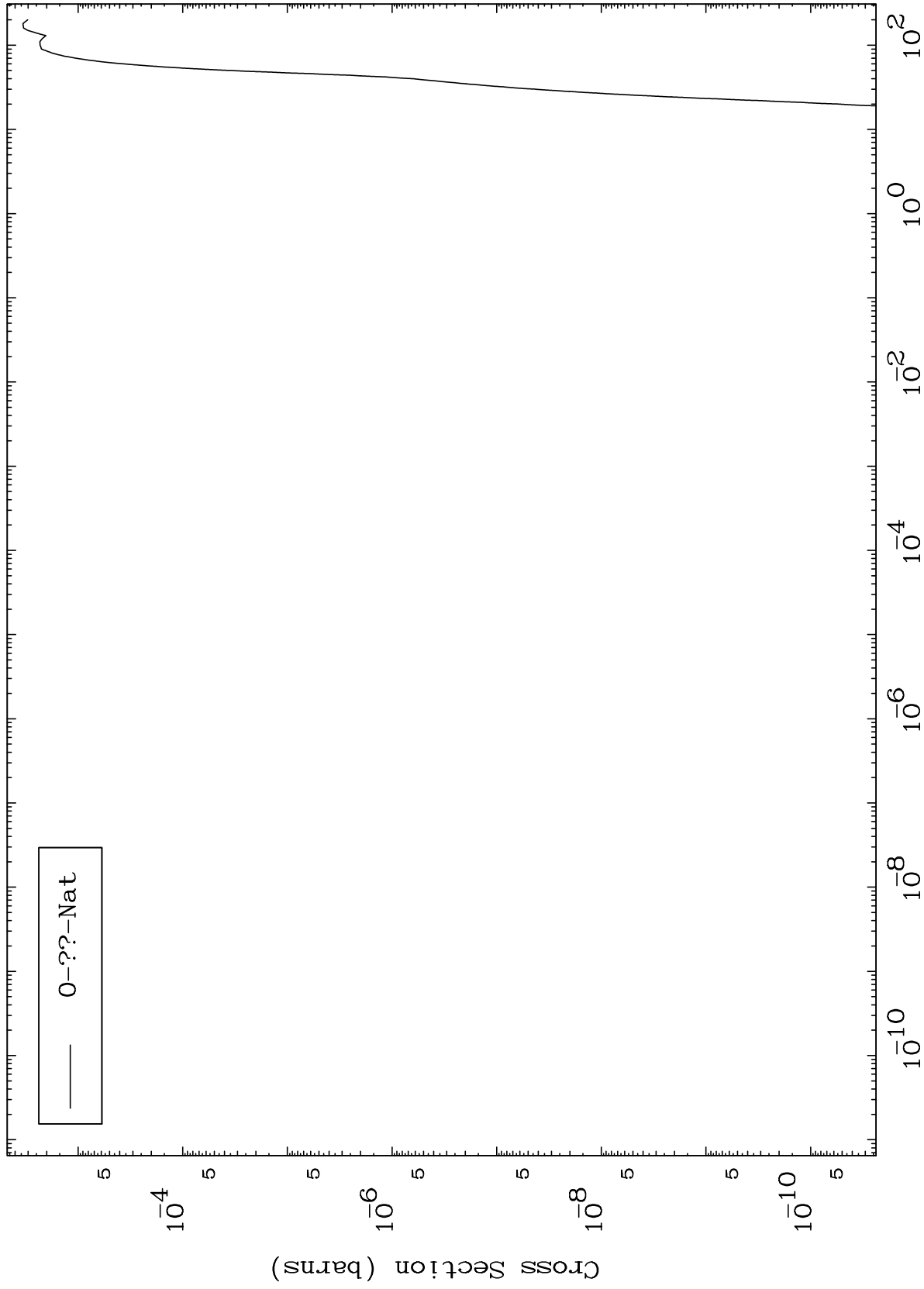
81-Tl-196



MAT 8104

Fission  
Radionuclide Production Cross Section

81-Tl-196



72

Incident Energy (MeV)

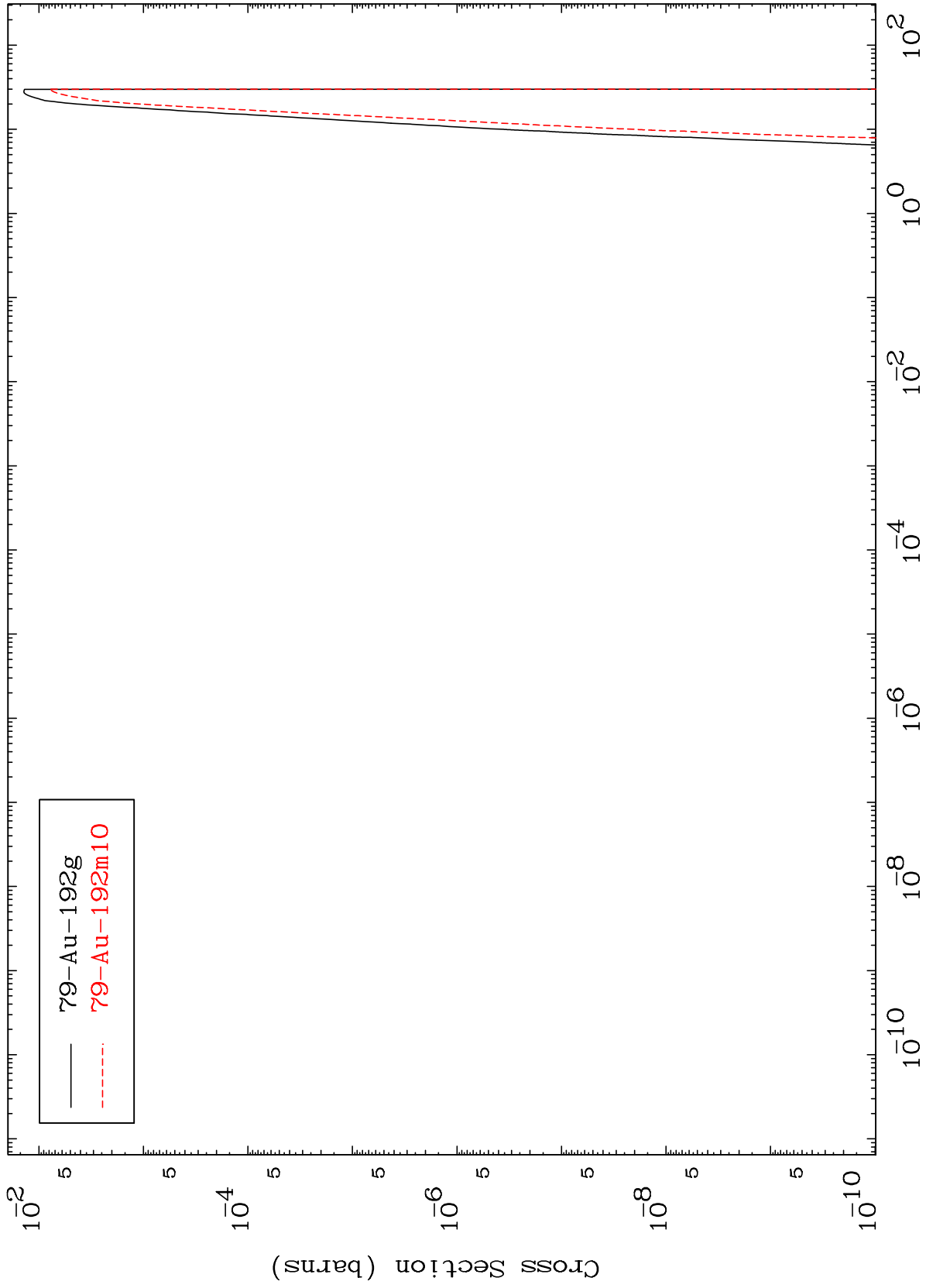
81-Tl-196

MAT 8104

(n,n')  $\alpha$

81-Tl-196

Radionuclide Production Cross Section



73

Incident Energy (MeV)

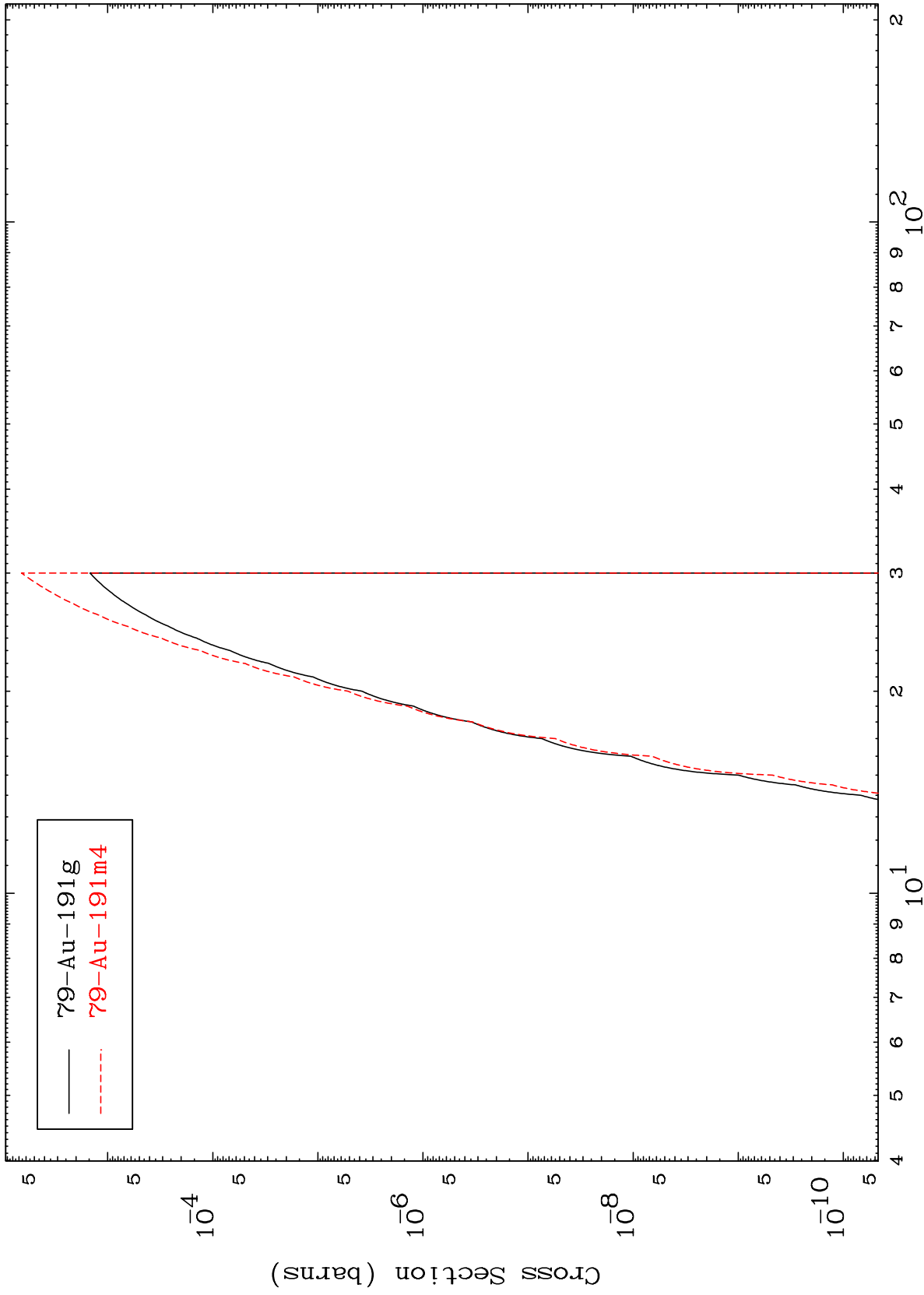
81-Tl-196

MAT 8104

(n,2n)  $\alpha$

81-Tl-196

Radionuclide Production Cross Section



74

Incident Energy (MeV)

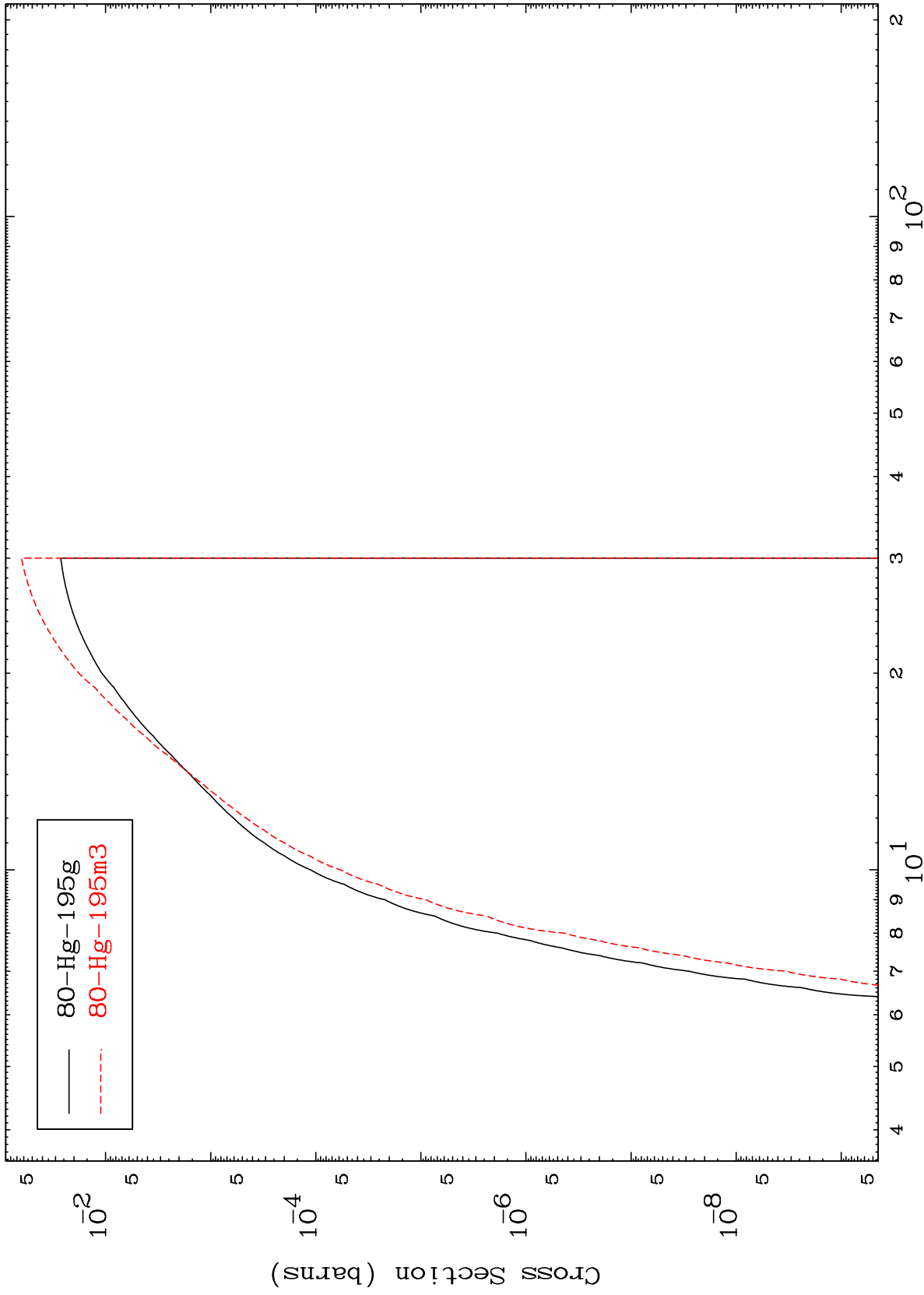
81-Tl-196

MAT 8104

(n,n') p

81-Tl-196

Radionuclide Production Cross Section



80-Hg-195g  
80-Hg-195m3

75

Incident Energy (MeV)

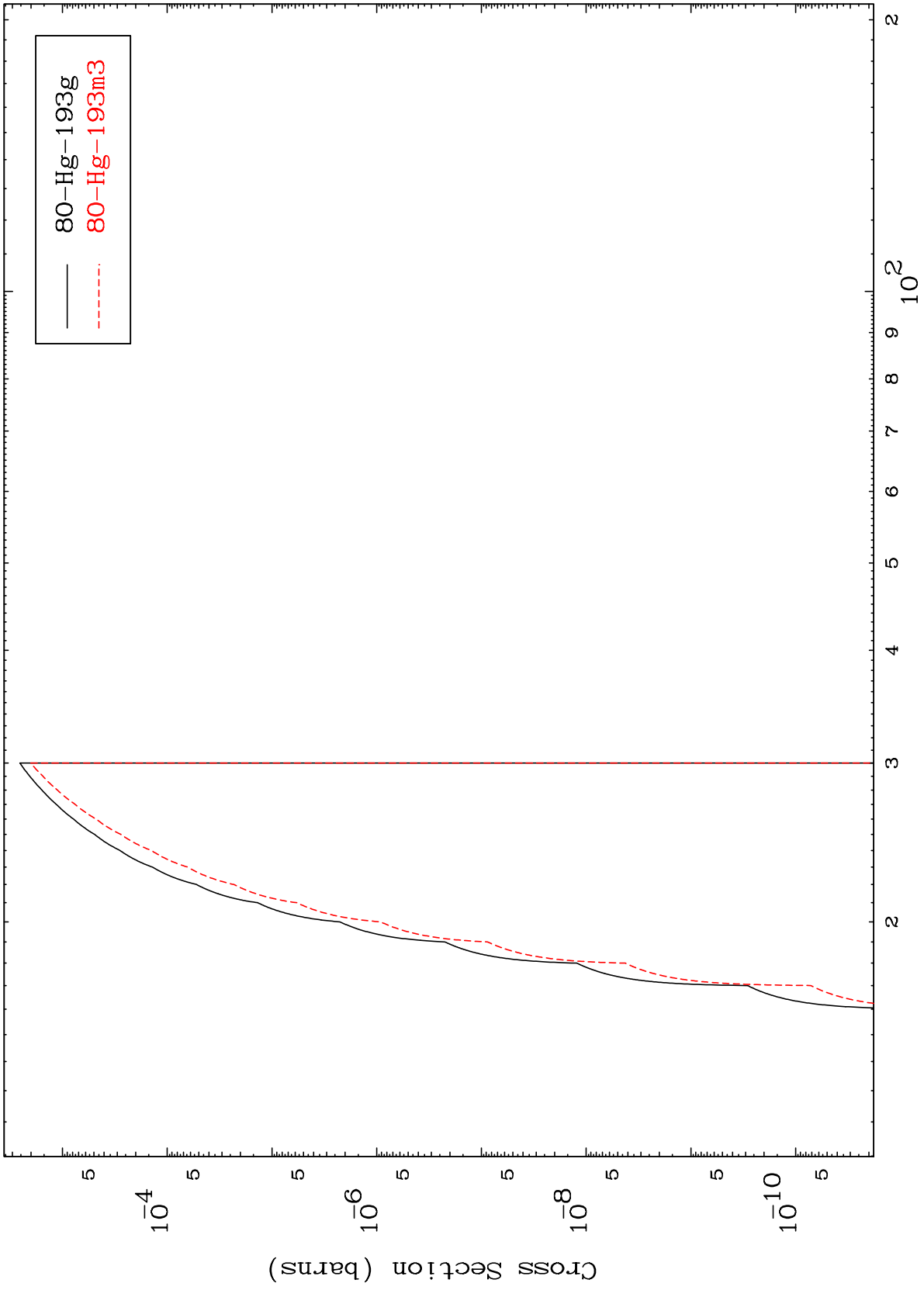
81-Tl-196

MAT 8104

(n,n') t

81-Tl-196

Radionuclide Production Cross Section



76

Incident Energy (MeV)

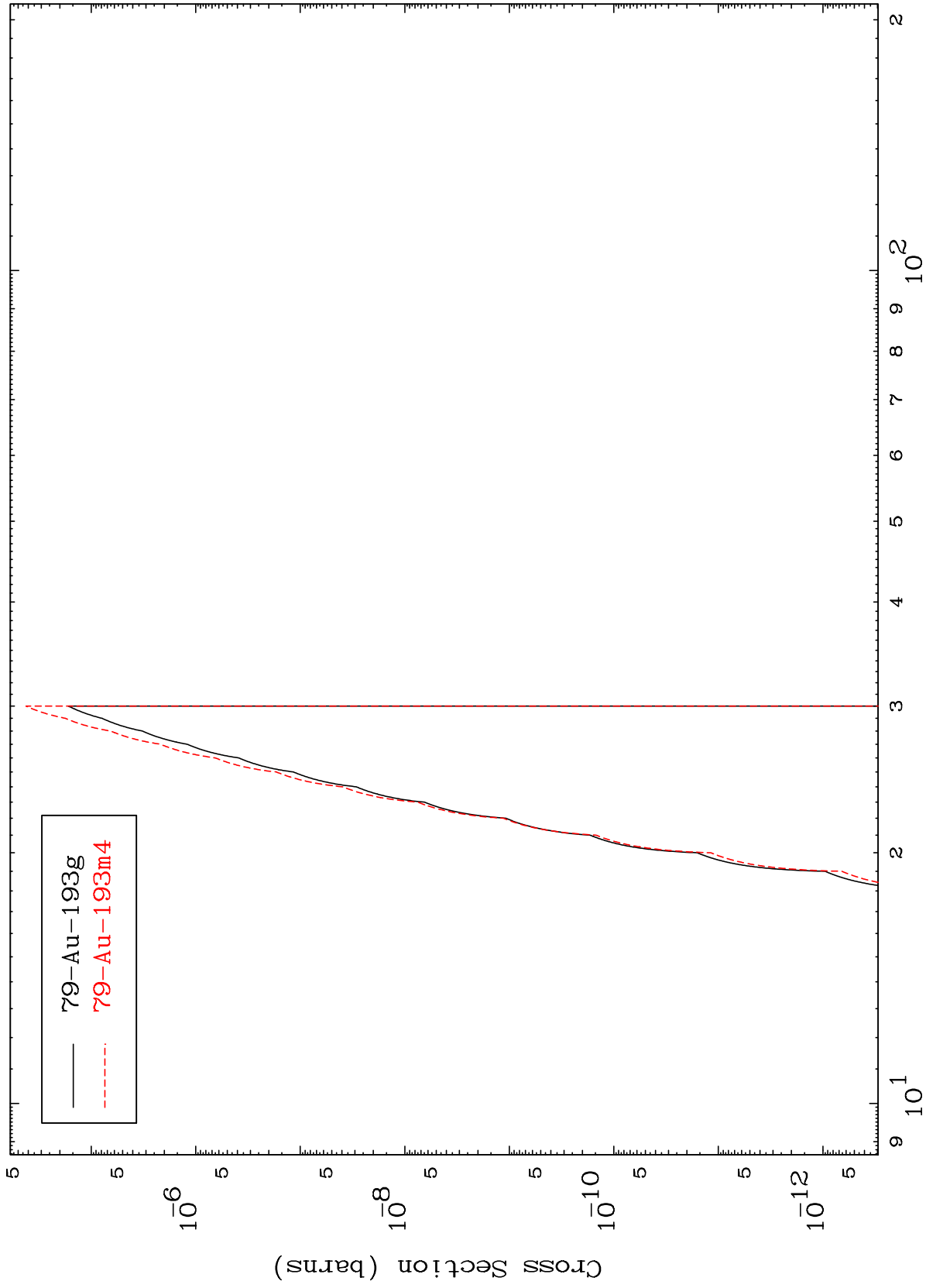
81-Tl-196

MAT 8104

(n, n') He-3

81-Tl-196

Radionuclide Production Cross Section



77

Incident Energy (MeV)

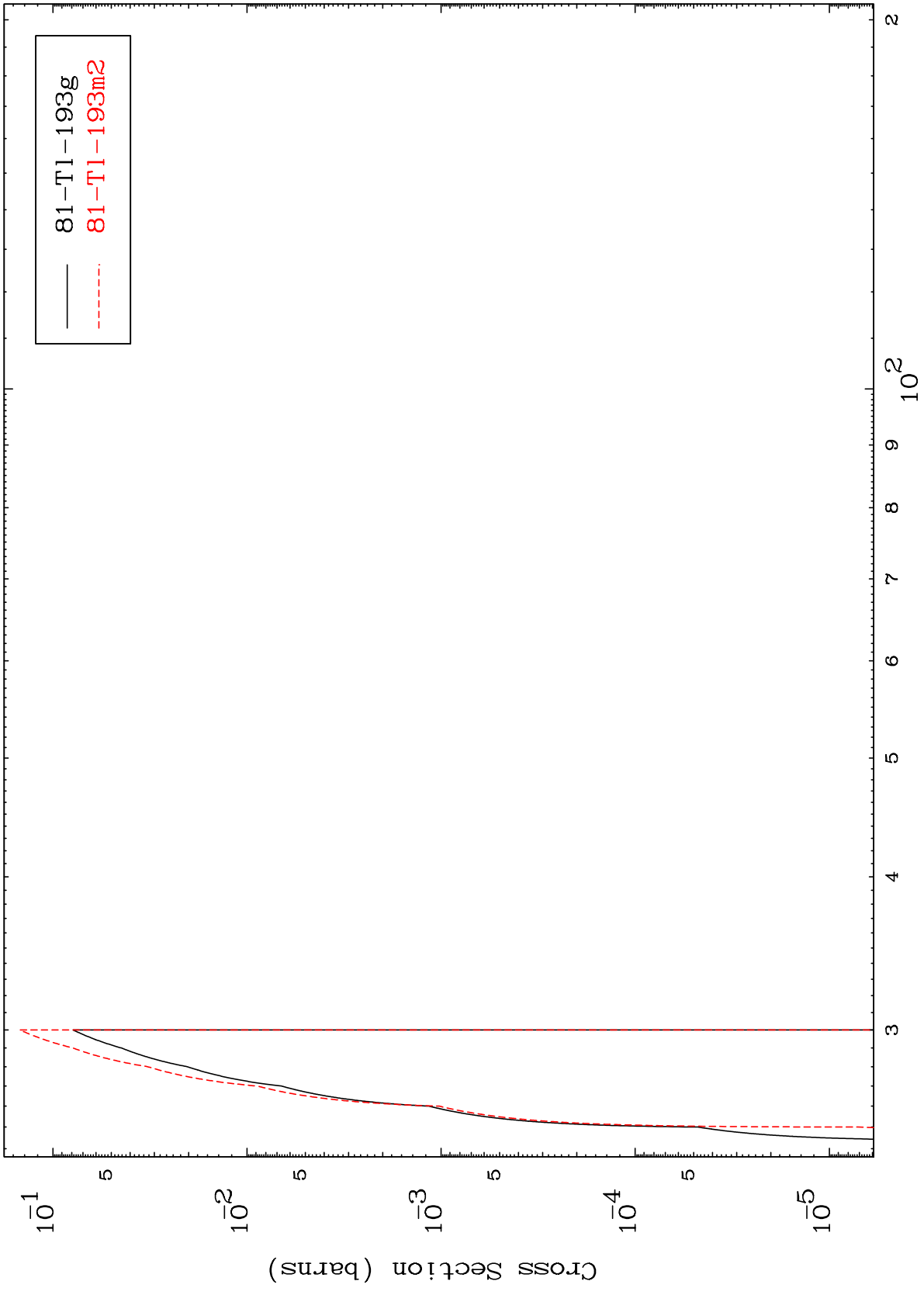
81-Tl-196

MAT 8104

(n,4n)

81-Tl-196

Radionuclide Production Cross Section



81-Tl-193g  
81-Tl-193m2

78

Incident Energy (MeV)

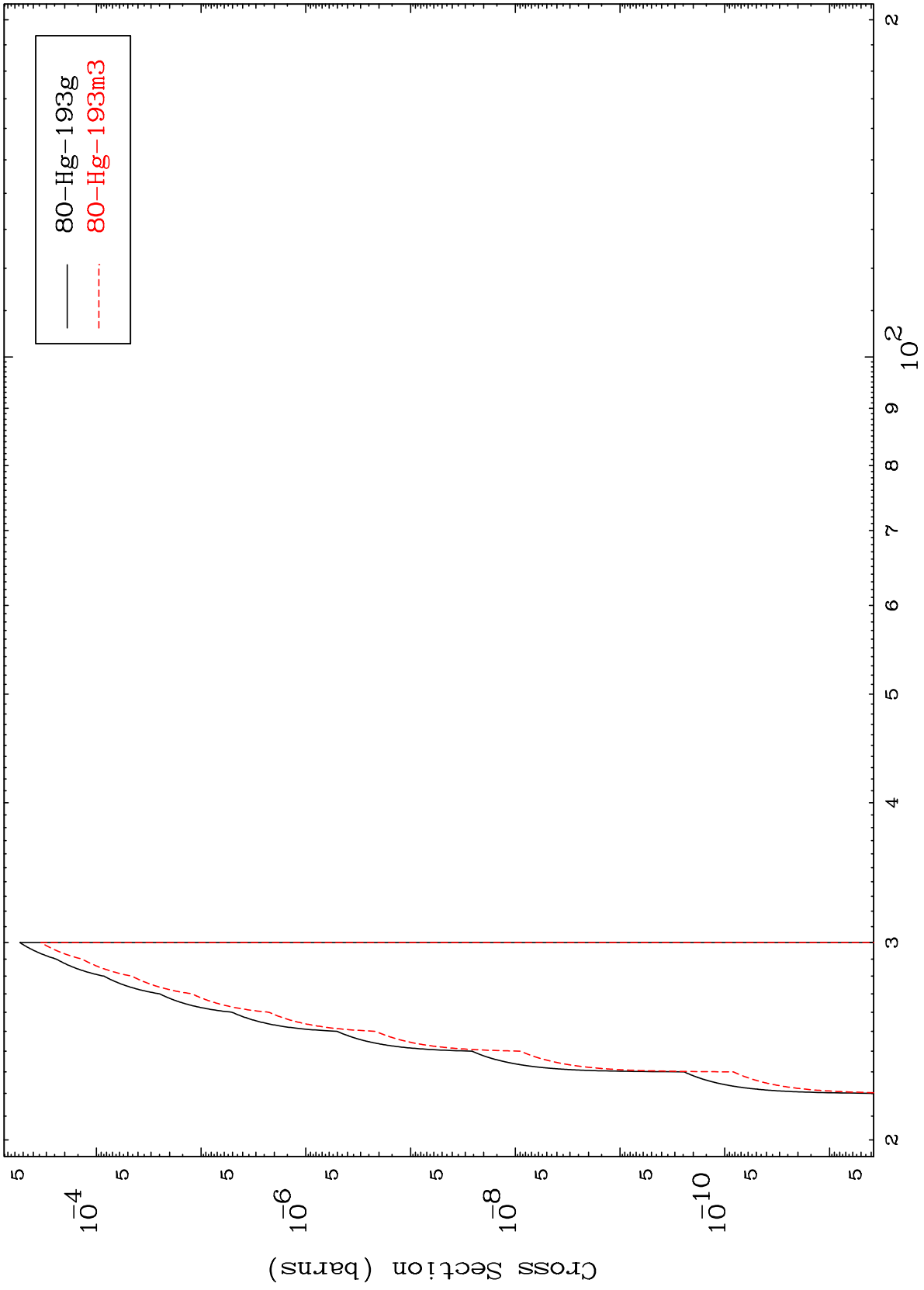
81-Tl-196

MAT 8104

(n,3n) p

81-Tl-196

Radionuclide Production Cross Section



79

Incident Energy (MeV)

81-Tl-196

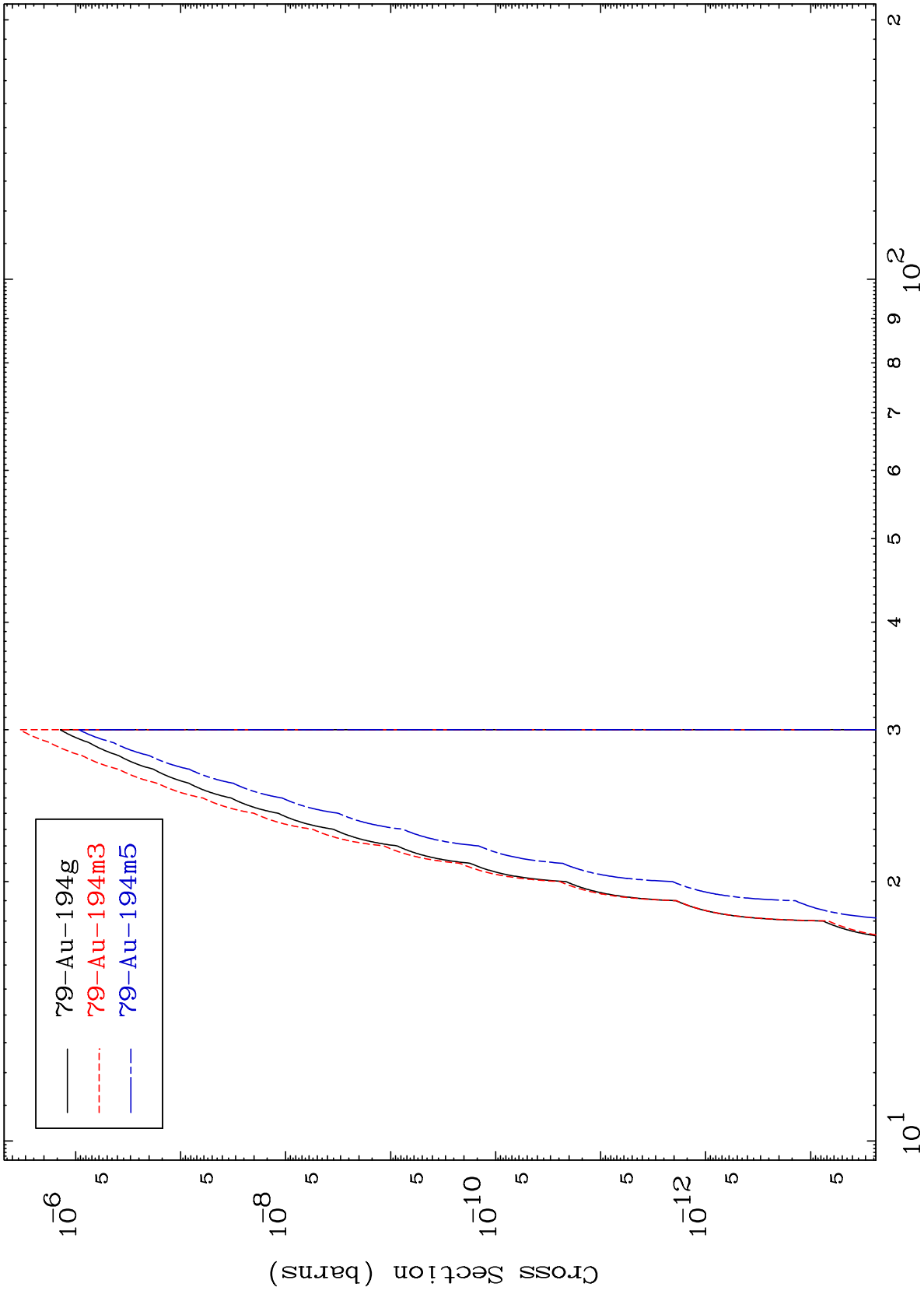


MAT 8104

(n,2n) p

81-Tl-196

Radionuclide Production Cross Section



80

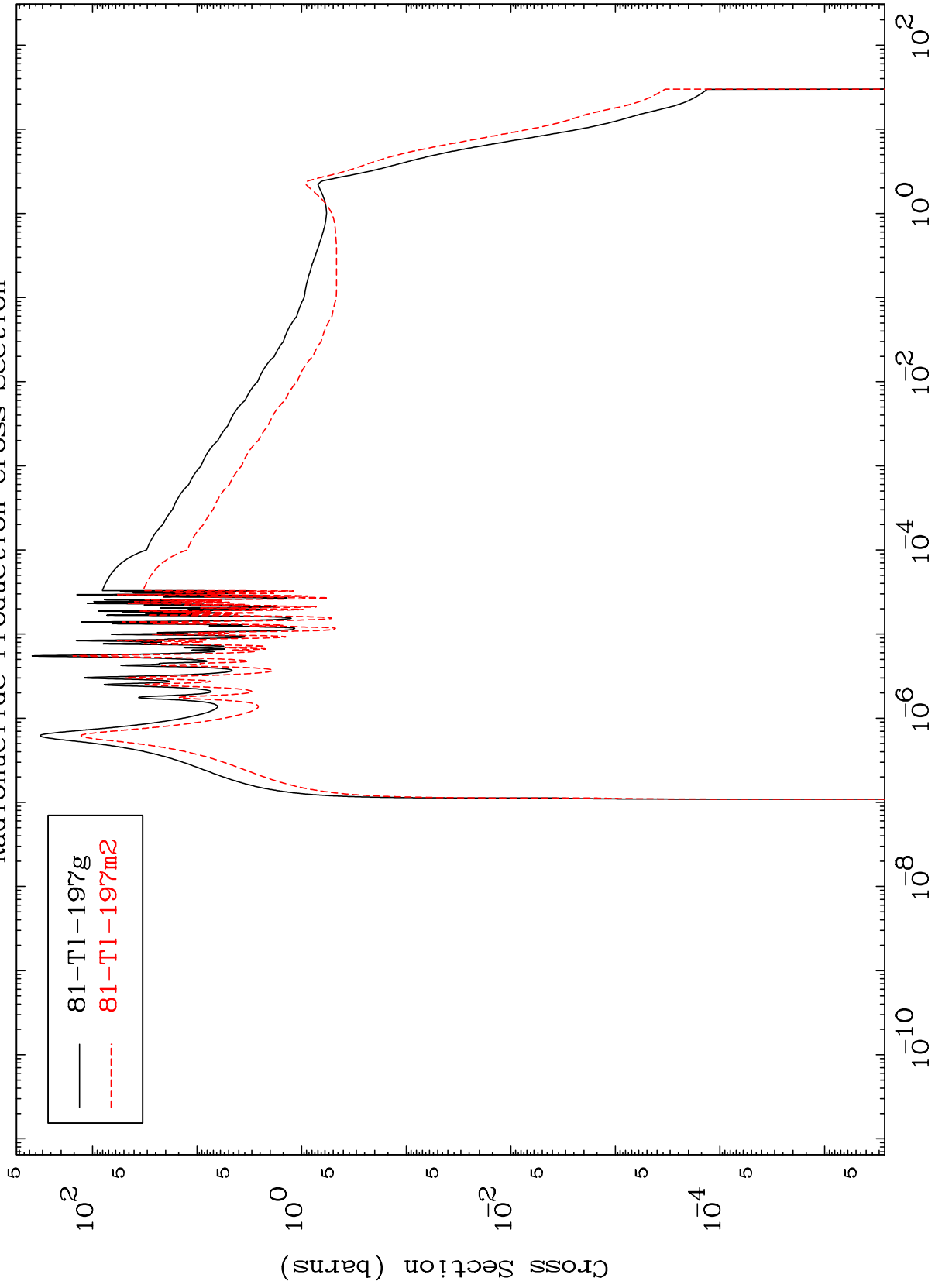
Incident Energy (MeV)

81-Tl-196

MAT 8104

81-Tl-196

Radionuclide Production Cross Section (n,γ)



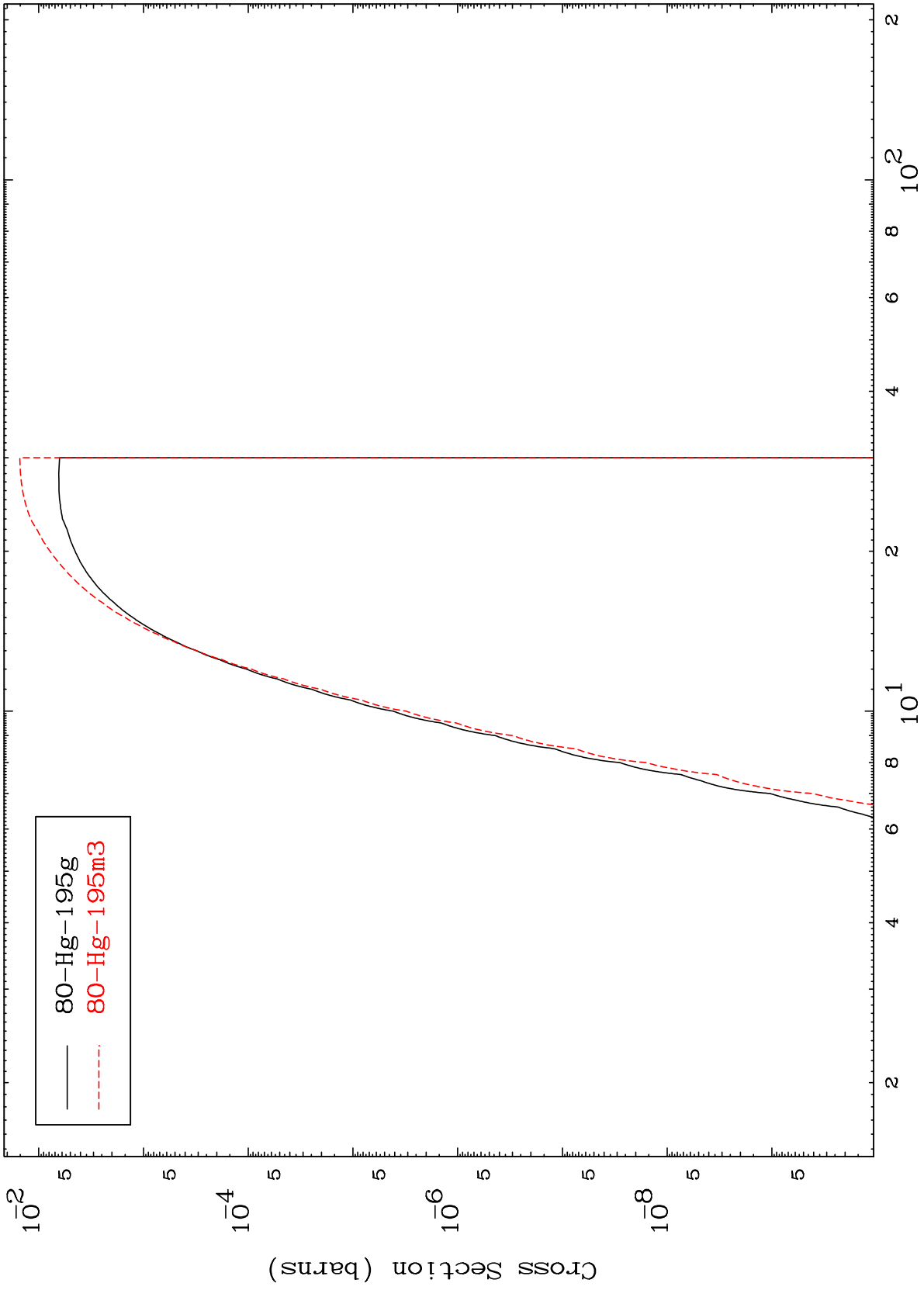
81

81-Tl-196

MAT 8104

81-Tl-196

(n,d)  
Radionuclide Production Cross Section



82

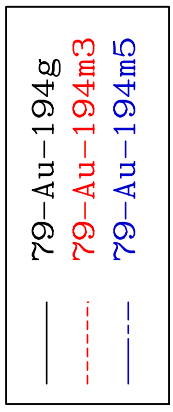
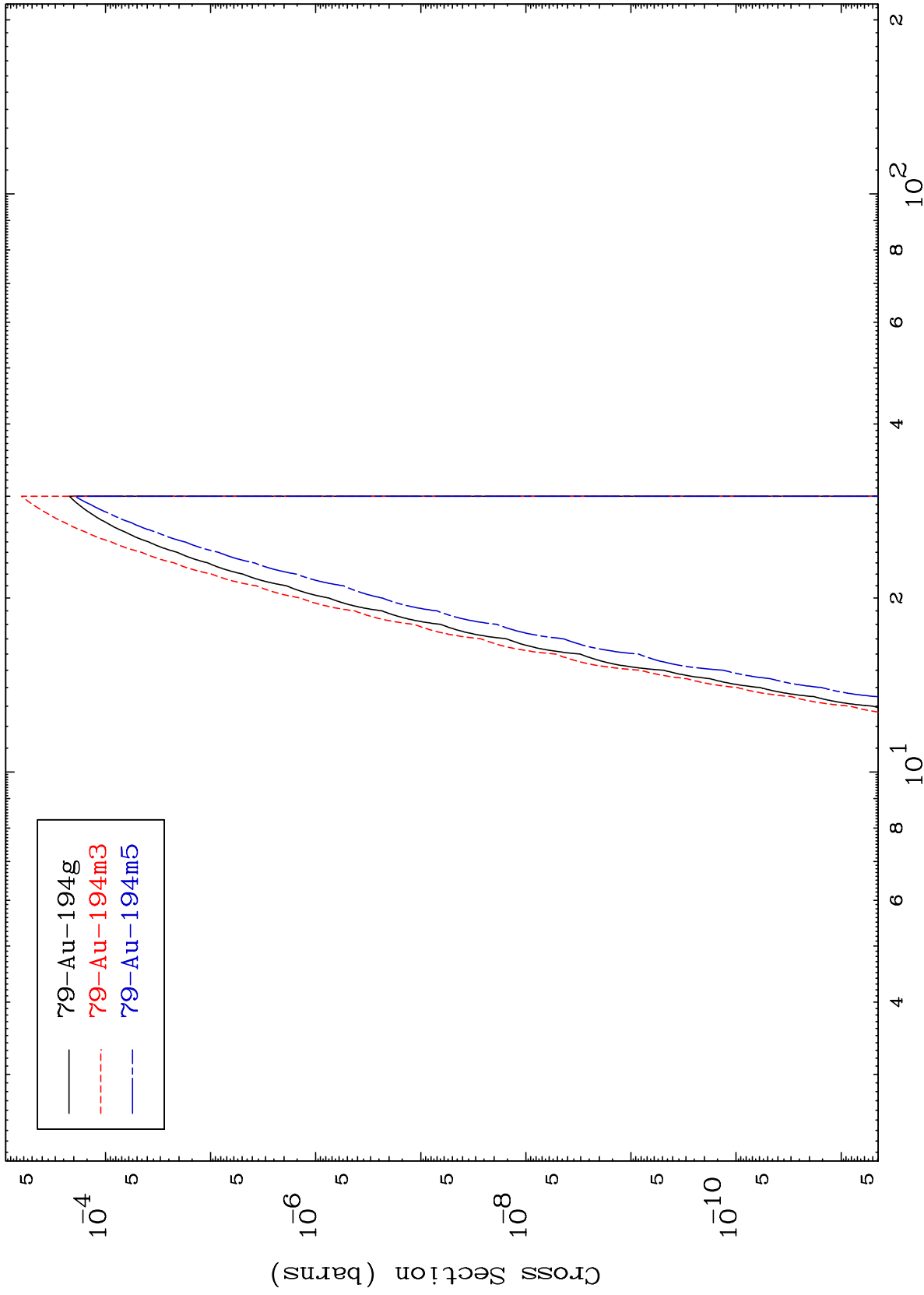
81-Tl-196

MAT 8104

(n, He-3)

81-Tl-196

Radionuclide Production Cross Section



83

Incident Energy (MeV)

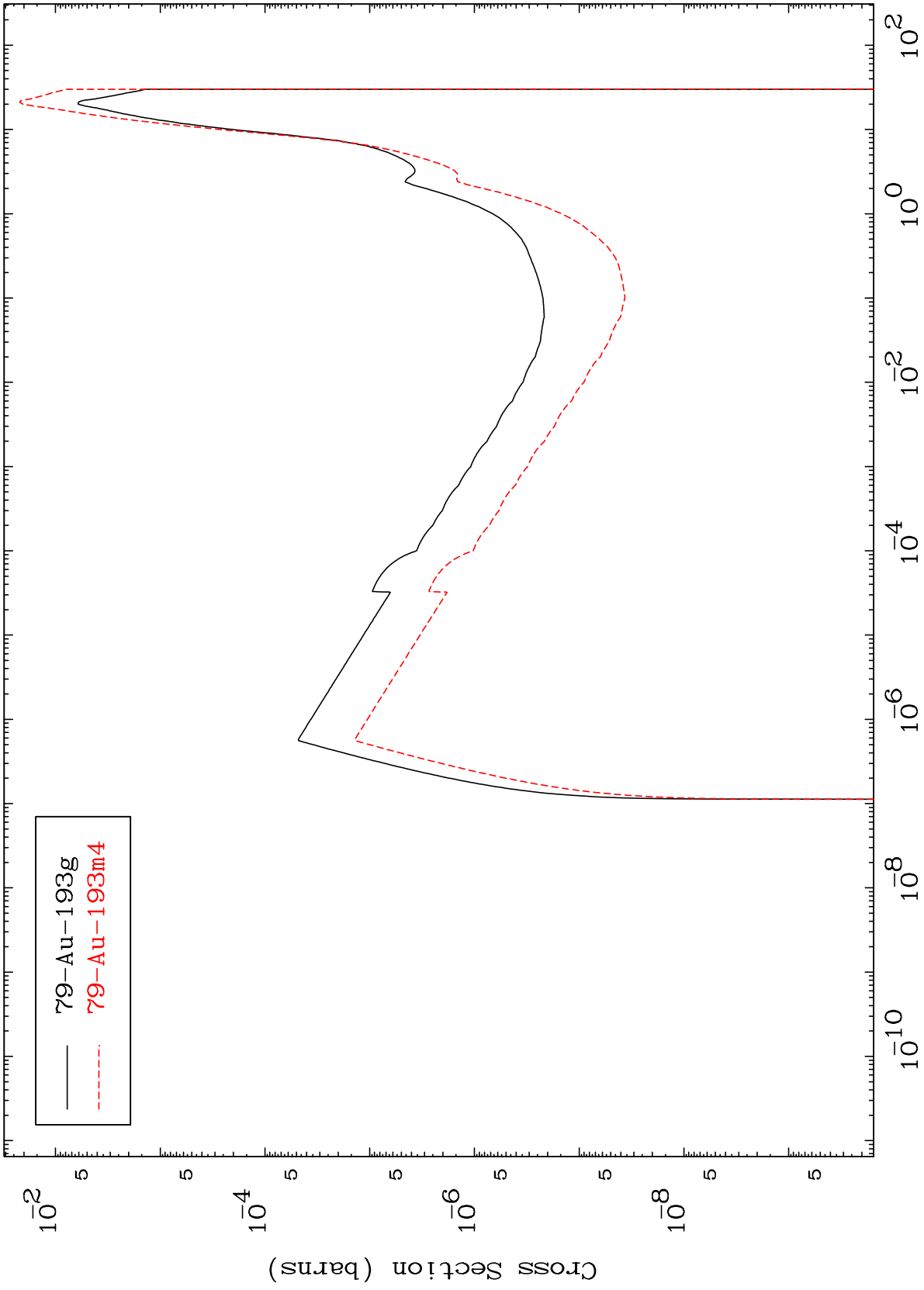
81-Tl-196

MAT 8104

(n,  $\alpha$ )

81-Tl-196

Radionuclide Production Cross Section



84

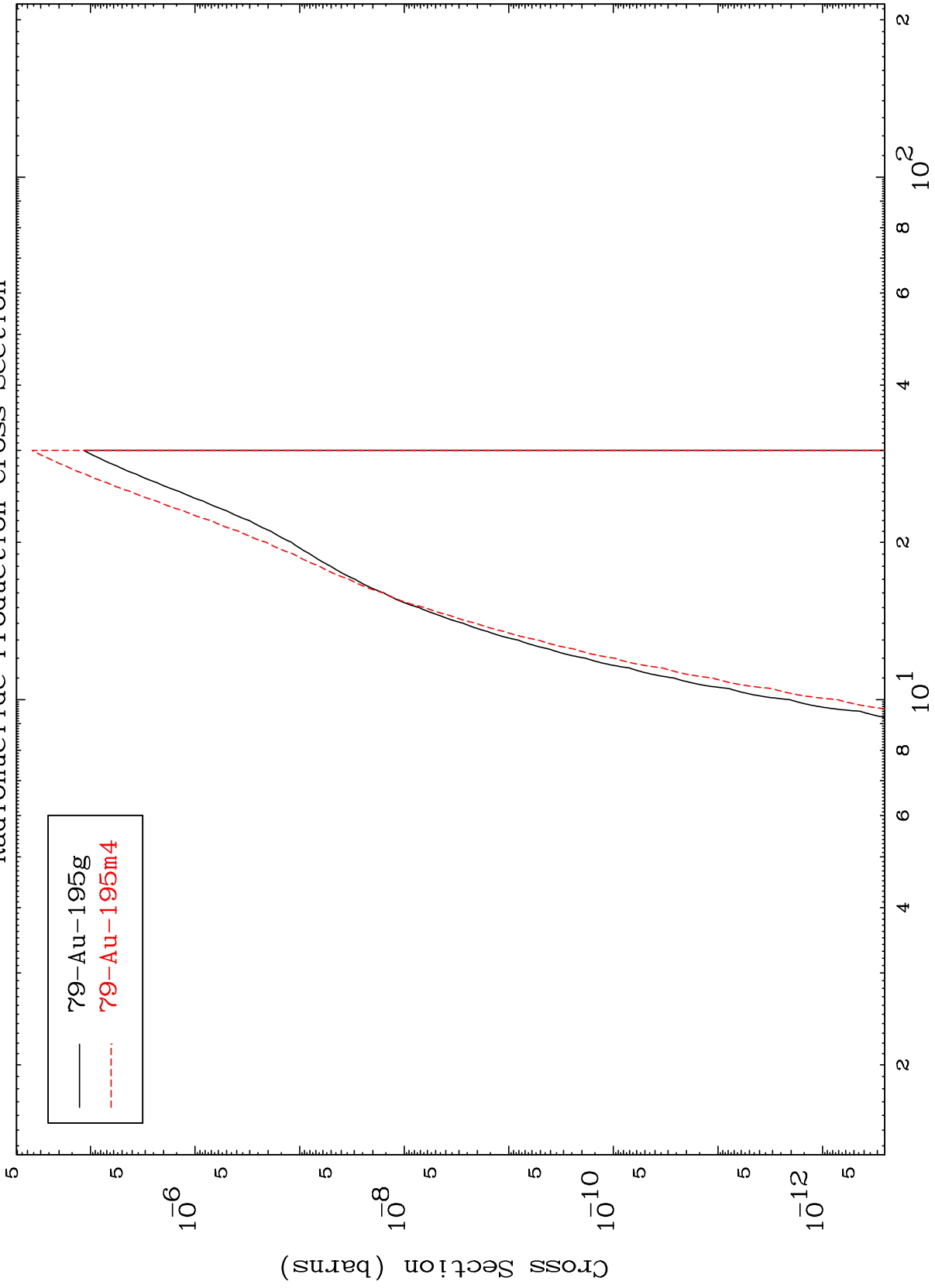
Incident Energy (MeV)

81-Tl-196

MAT 8104

81-Tl-196

Radionuclide Production Cross Section



85

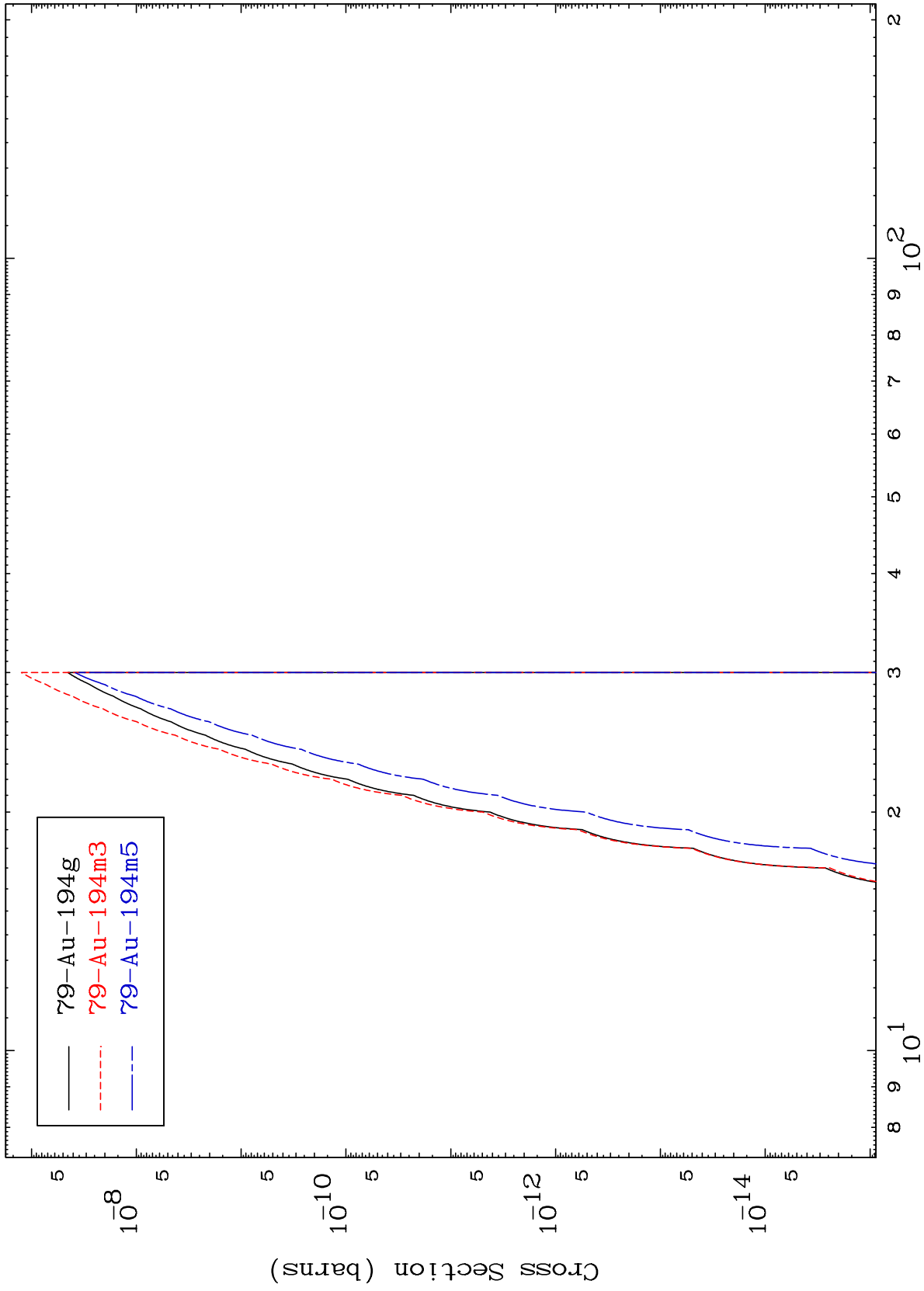
81-Tl-196

MAT 8104

(n,p) d

81-Tl-196

Radionuclide Production Cross Section



86

Incident Energy (MeV)

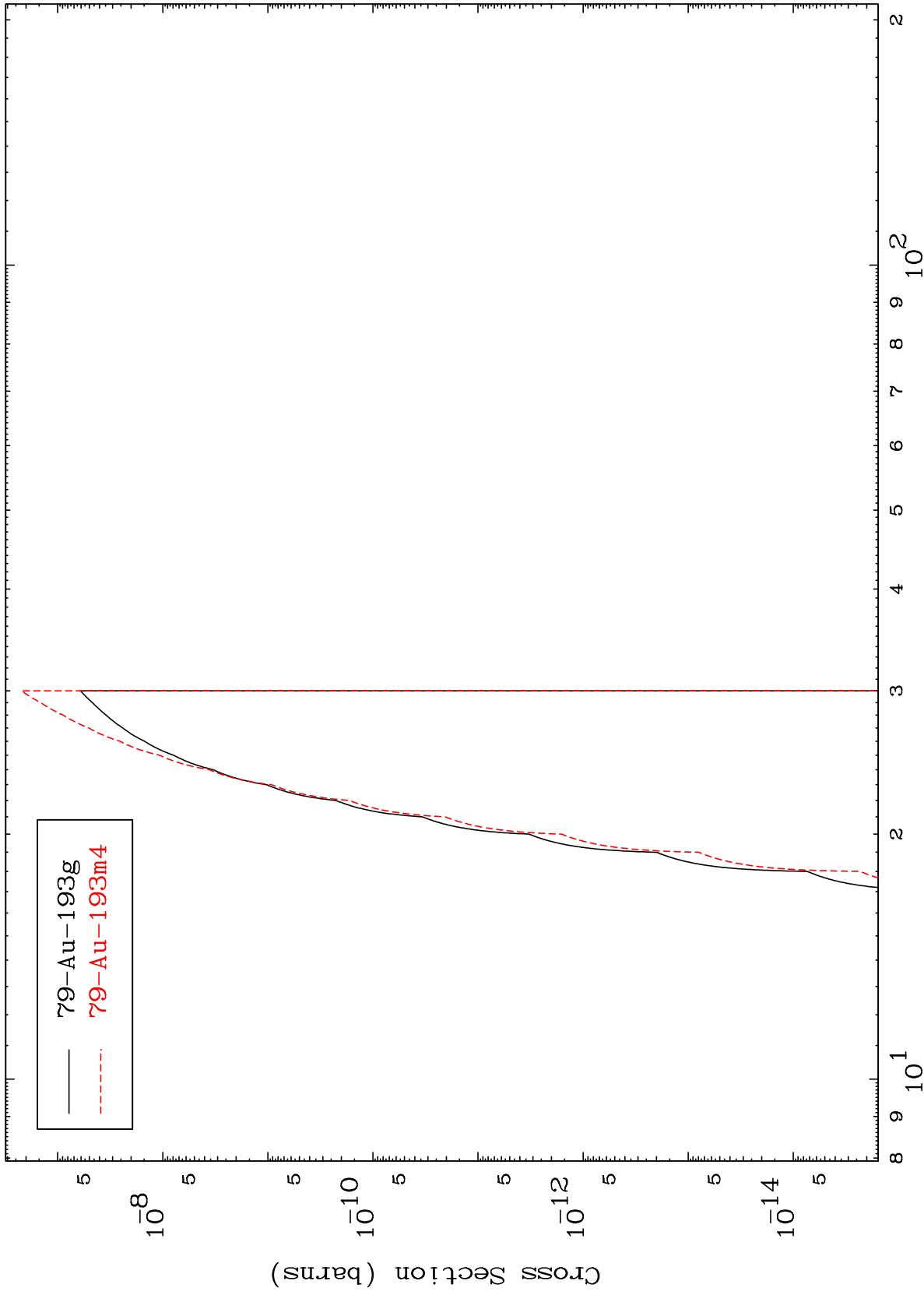
81-Tl-196

MAT 8104

(n,p) t

81-Tl-196

Radionuclide Production Cross Section



87

Incident Energy (MeV)

81-Tl-196