

Program EVALPLOT  
(Version 2018-1)

by

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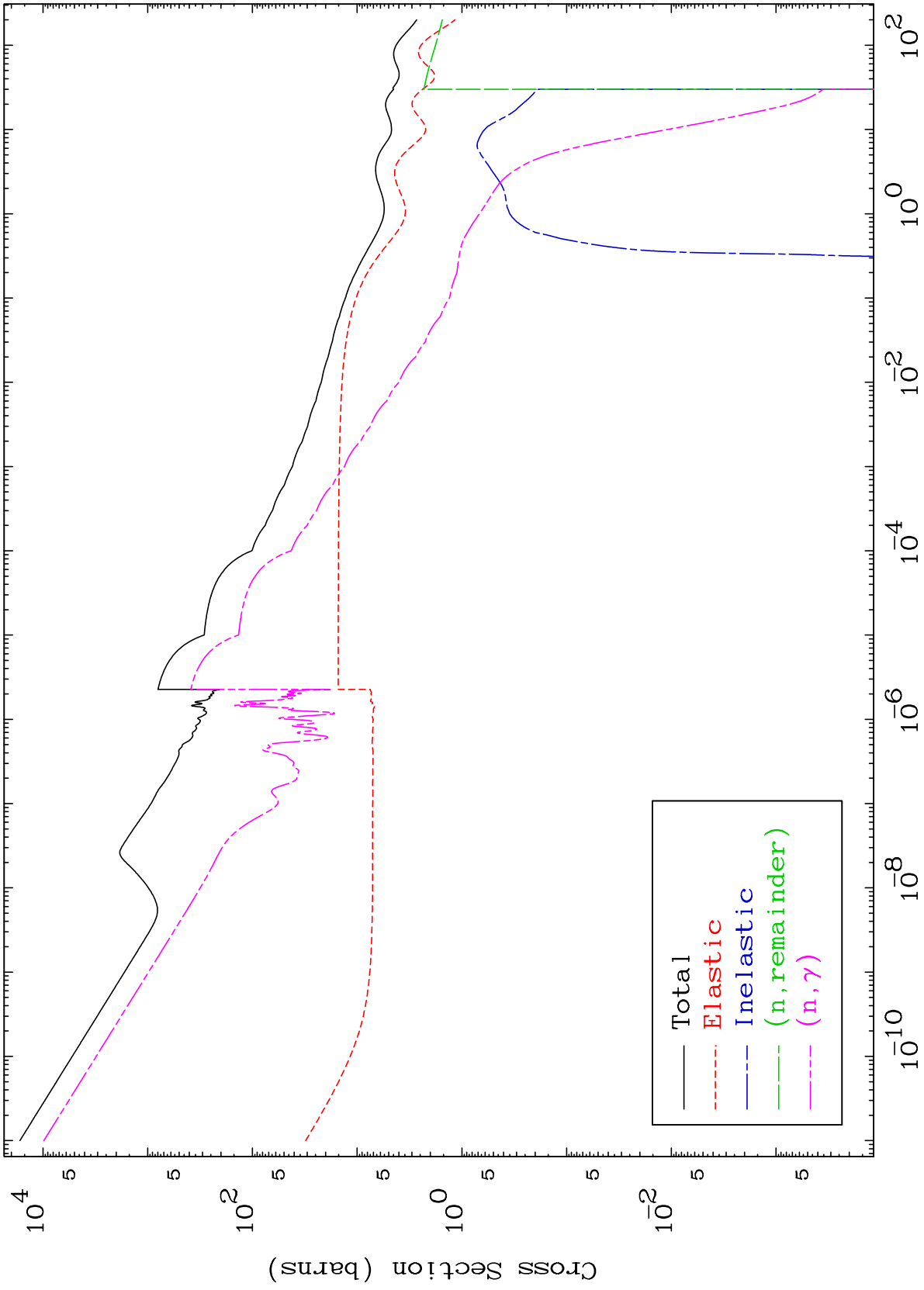
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7865

Major  
293 Kelvin Cross Sections

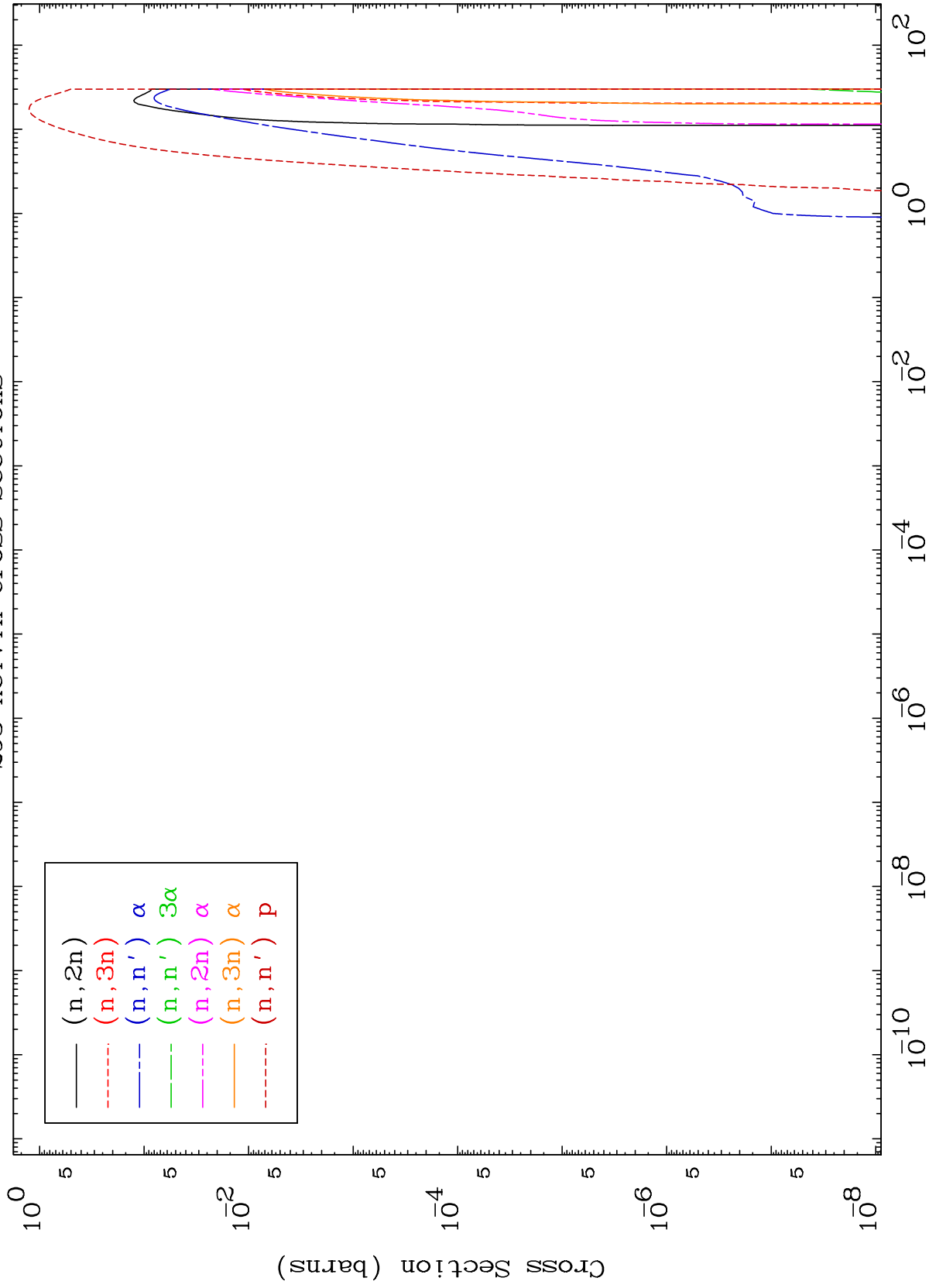
79-Au-177



MAT 7865

Neutron Production  
293 Kelvin Cross Sections

79-Au-177



2

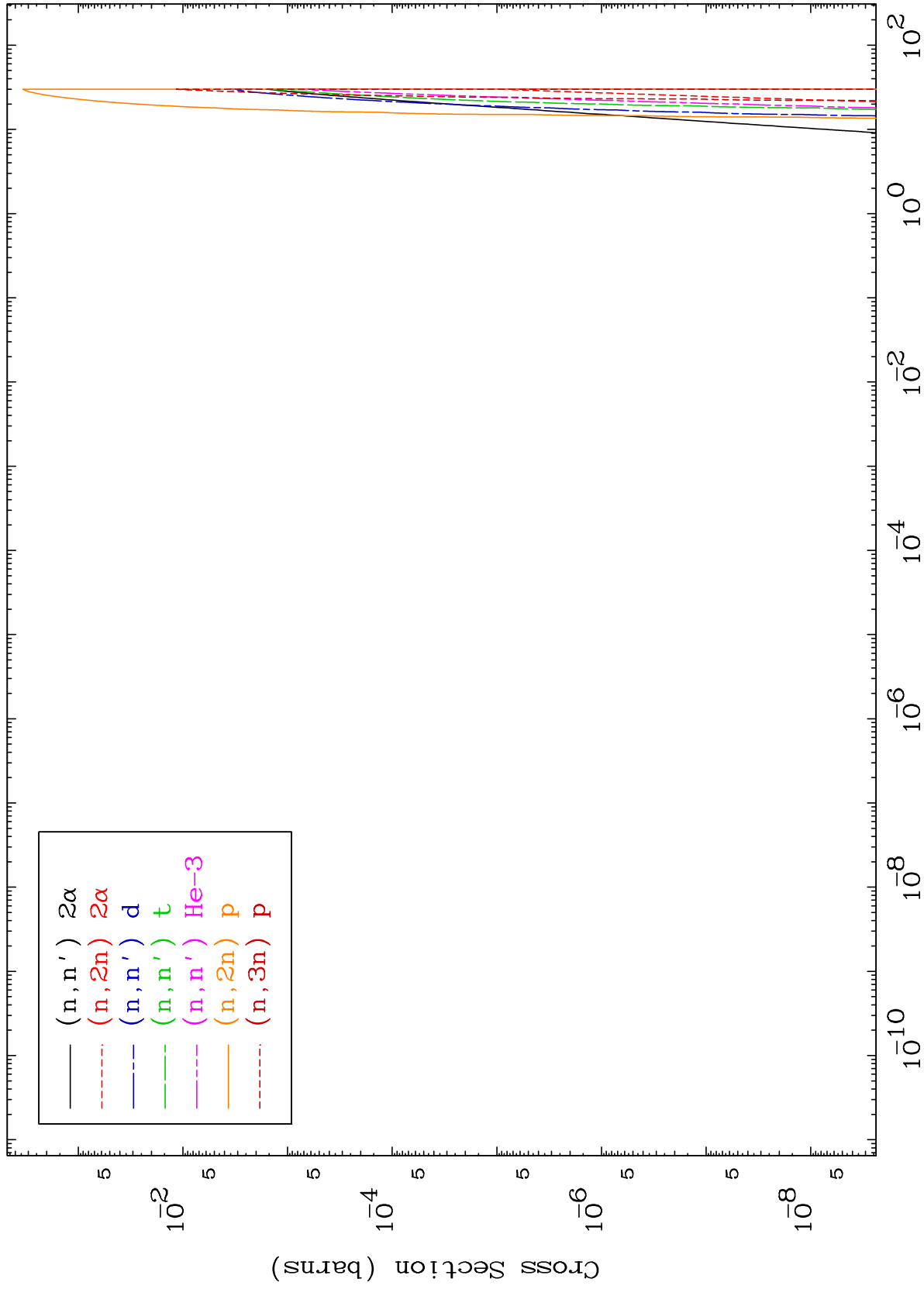
Incident Energy (MeV)

79-Au-177

MAT 7865

Neutron Production  
293 Kelvin Cross Sections

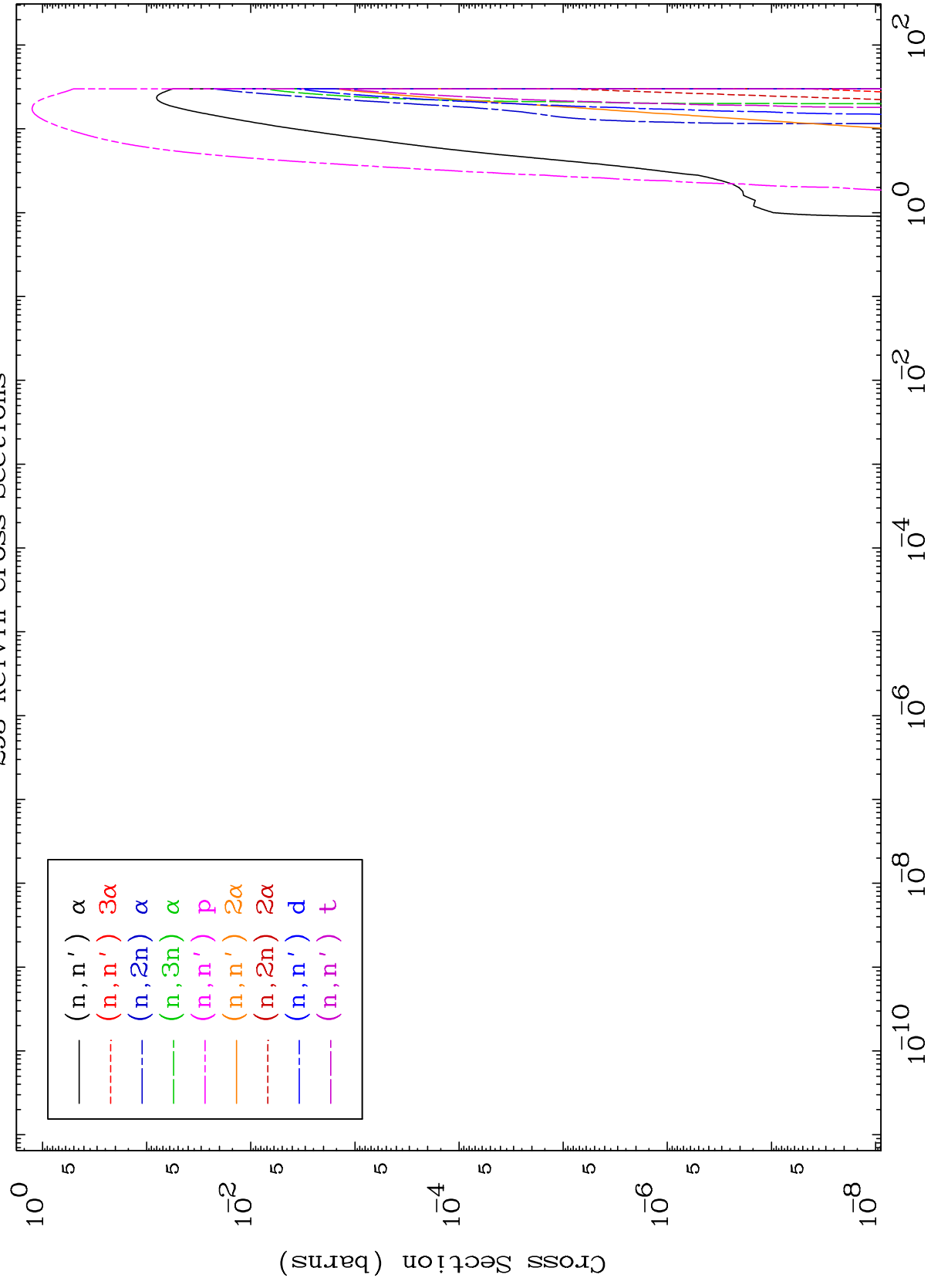
79-Au-177



MAT 7865

293 Kelvin Cross Sections

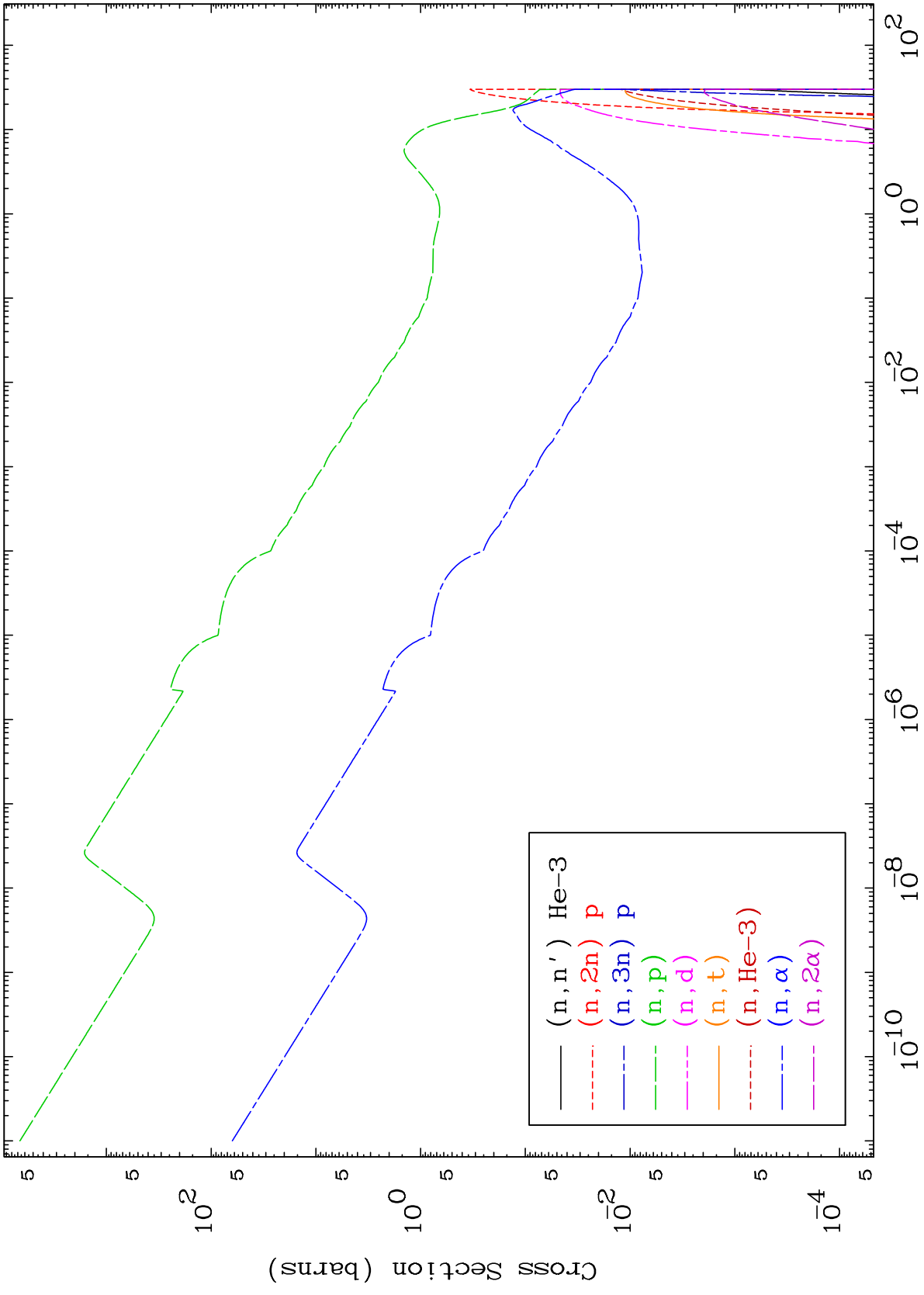
79-Au-177



MAT 7865

293 Kelvin Cross Sections

79-Au-177

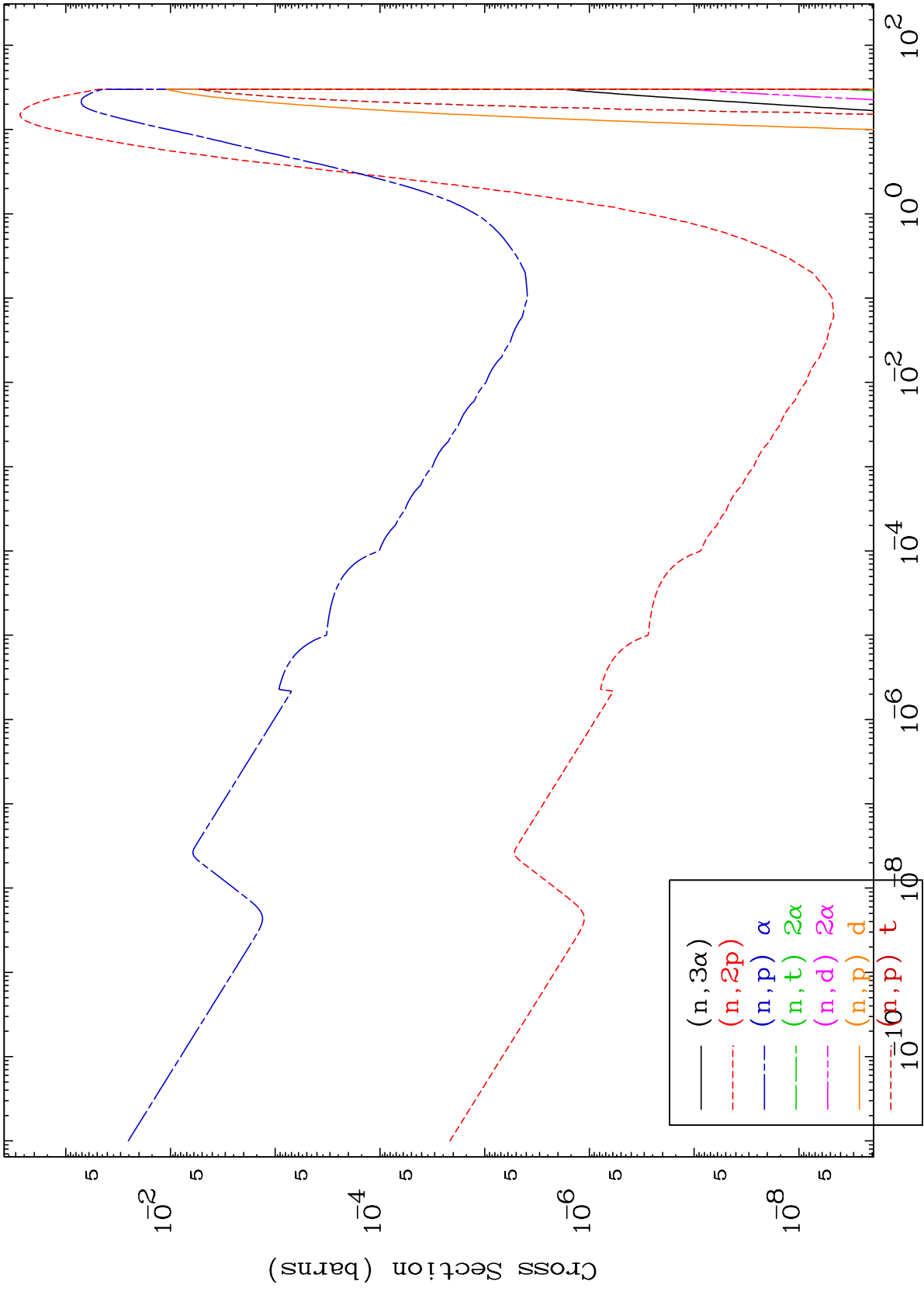


79-Au-177

MAT 7865

Charged Particle  
293 Kelvin Cross Sections

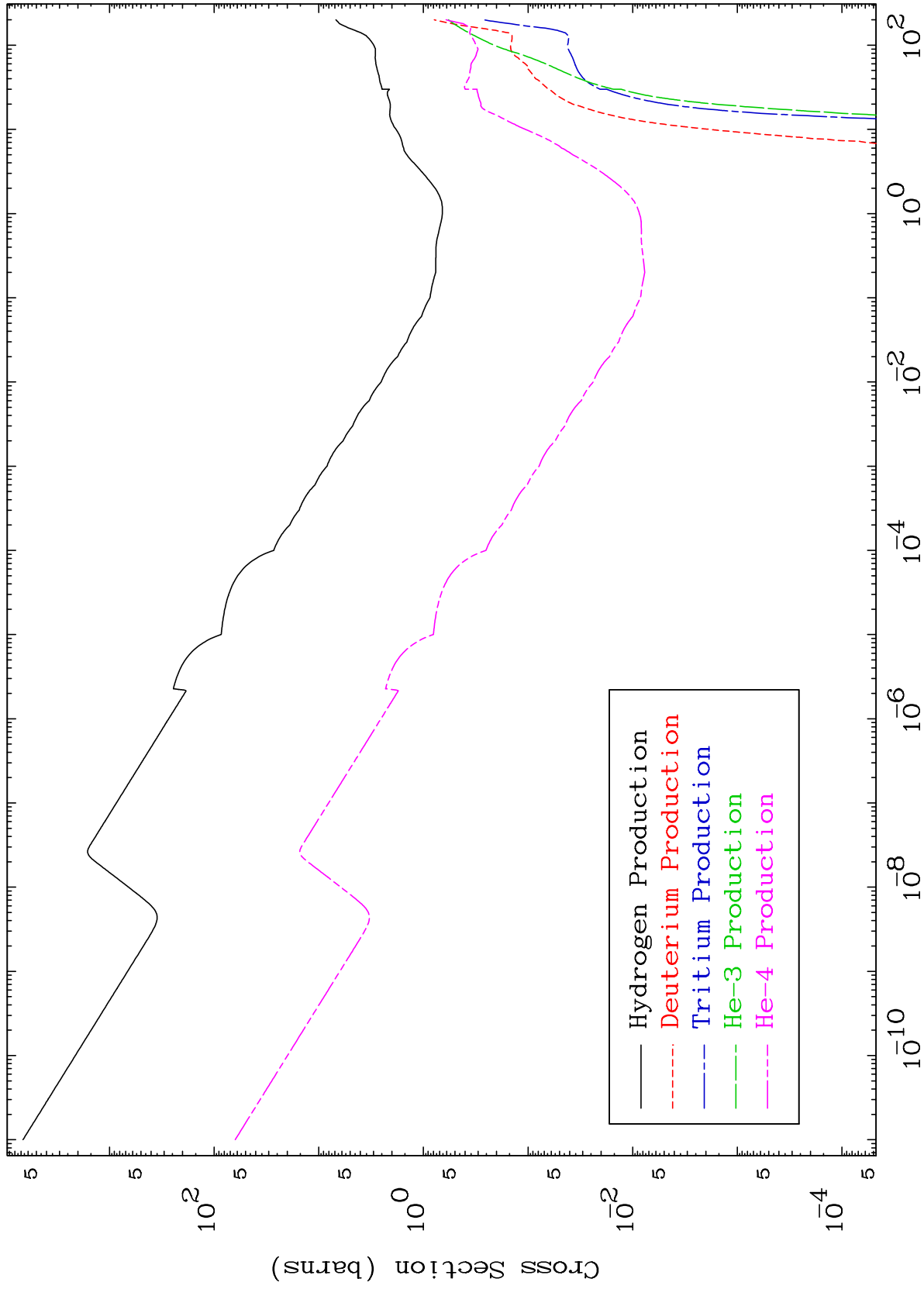
79-Au-177



MAT 7865

Particle Production  
293 Kelvin Cross Sections

79-Au-177



79-Au-177

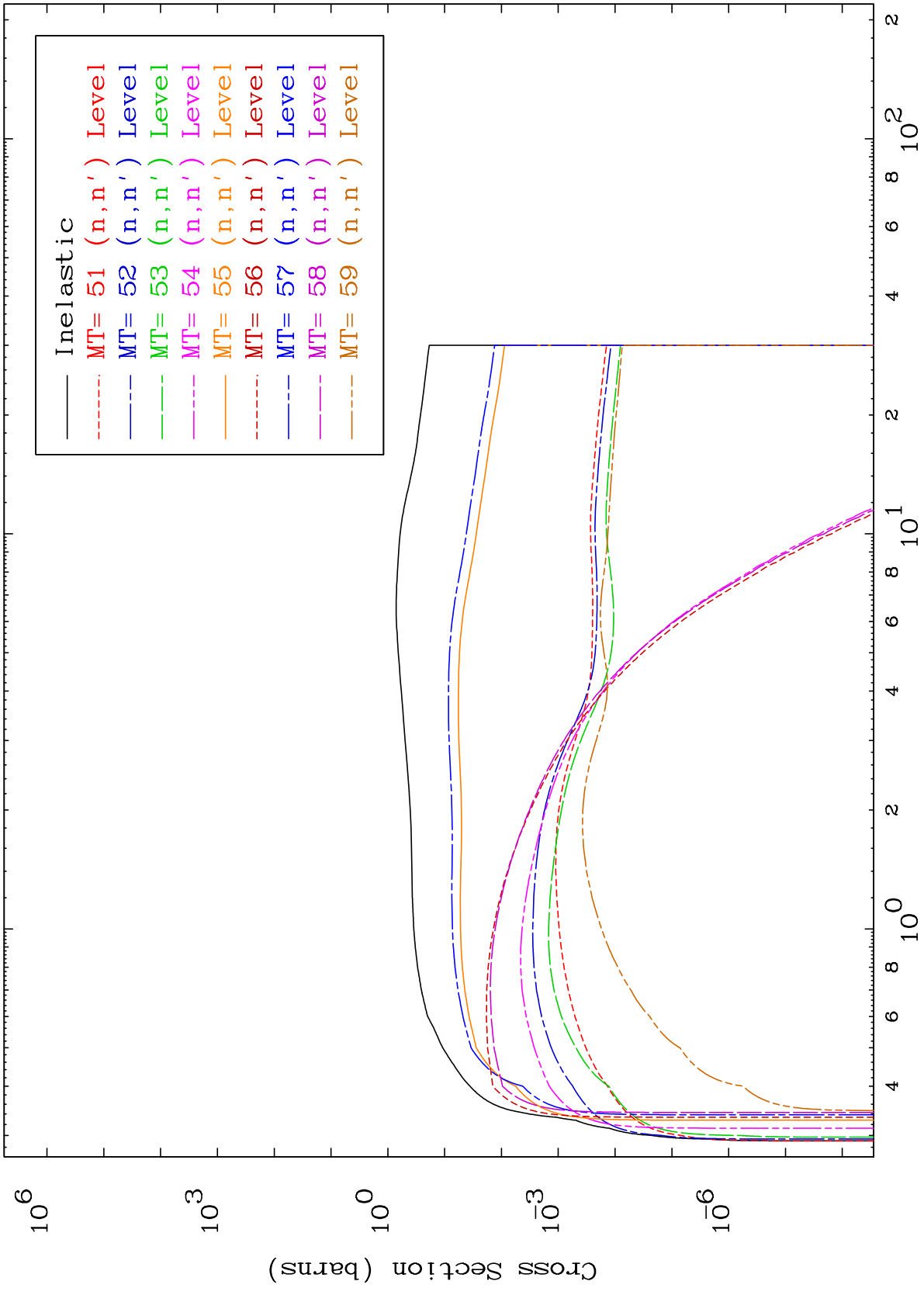


MAT 7865

(n,n') Level

79-Au-177

293 Kelvin Cross Sections



8

Incident Energy (MeV)

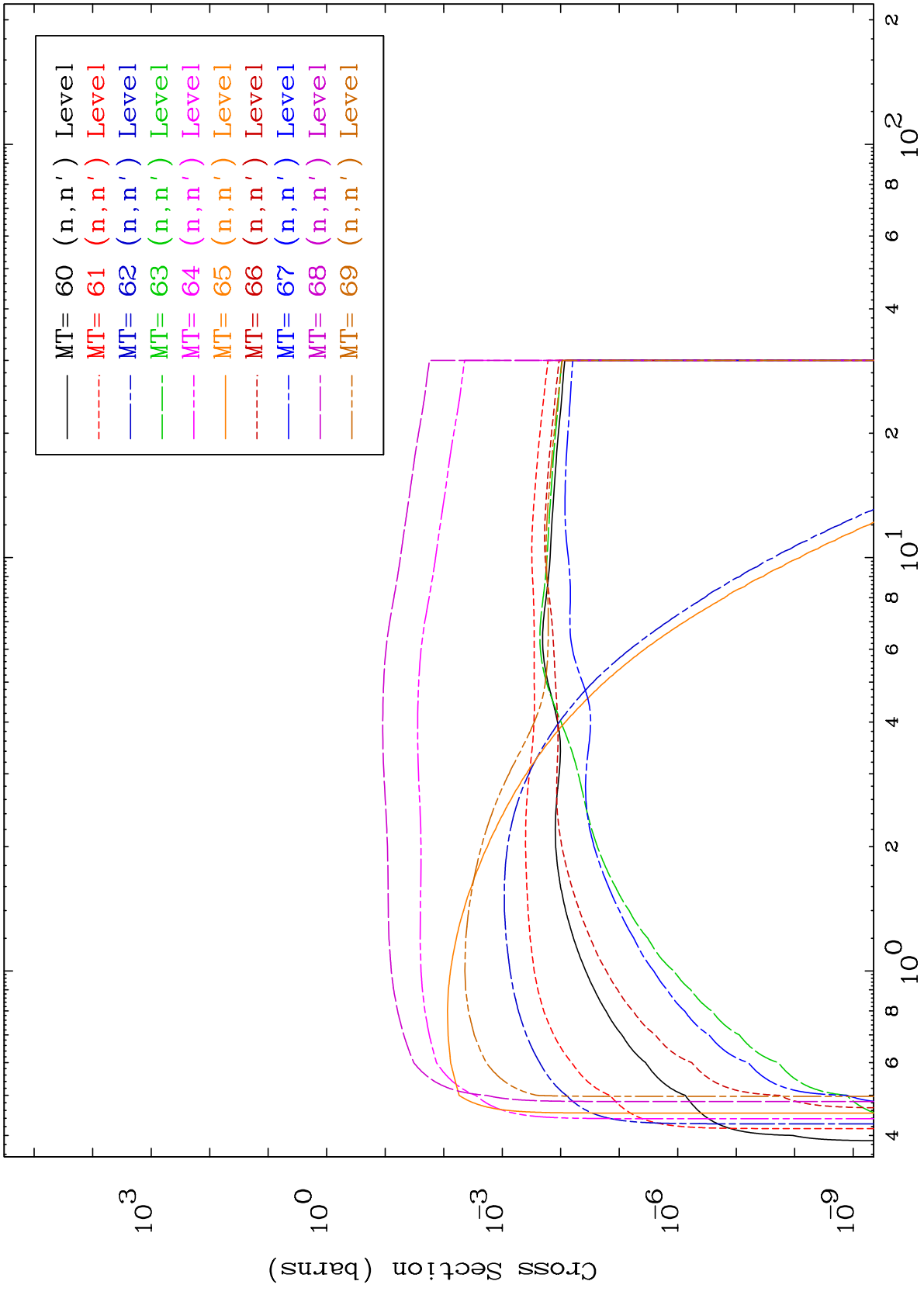
79-Au-177

MAT 7865

(n,n') Level

79-Au-177

293 Kelvin Cross Sections



9

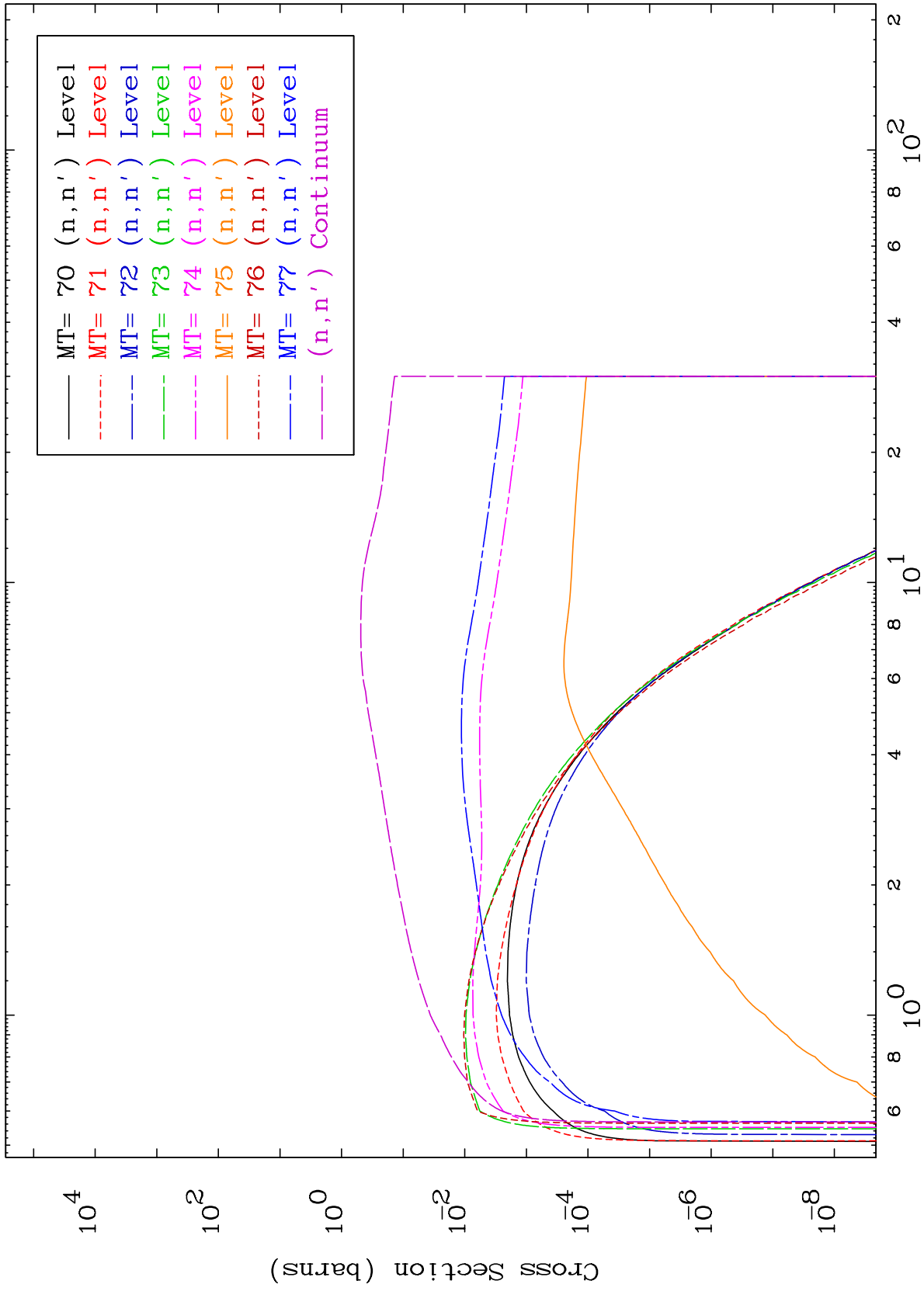
Incident Energy (MeV)

79-Au-177

MAT 7865

(n,n') Level  
293 Kelvin Cross Sections

79-Au-177



10

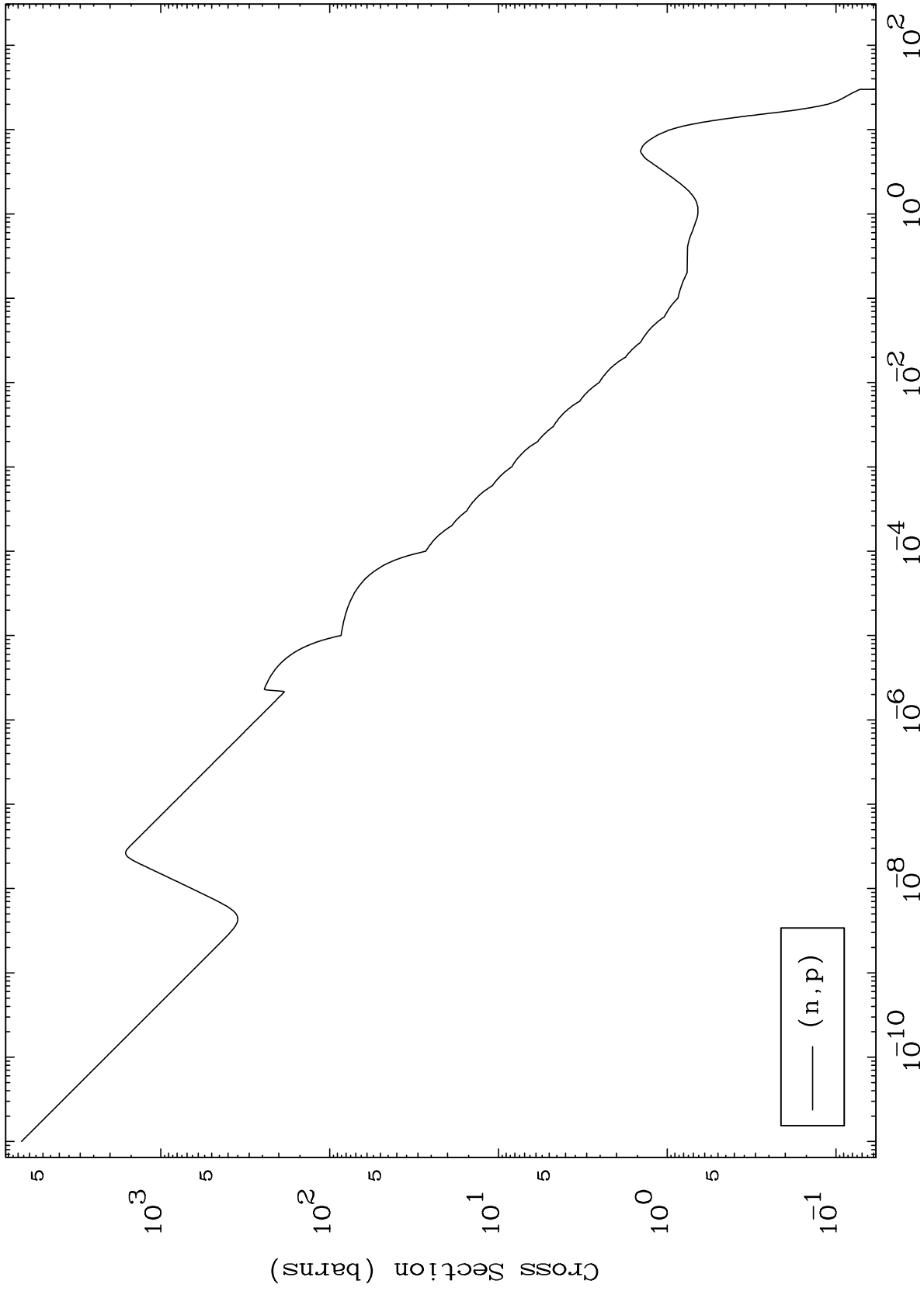
Incident Energy (MeV)

79-Au-177

MAT 7865

(n,p) Levels  
293 Kelvin Cross Sections

79-Au-177



11

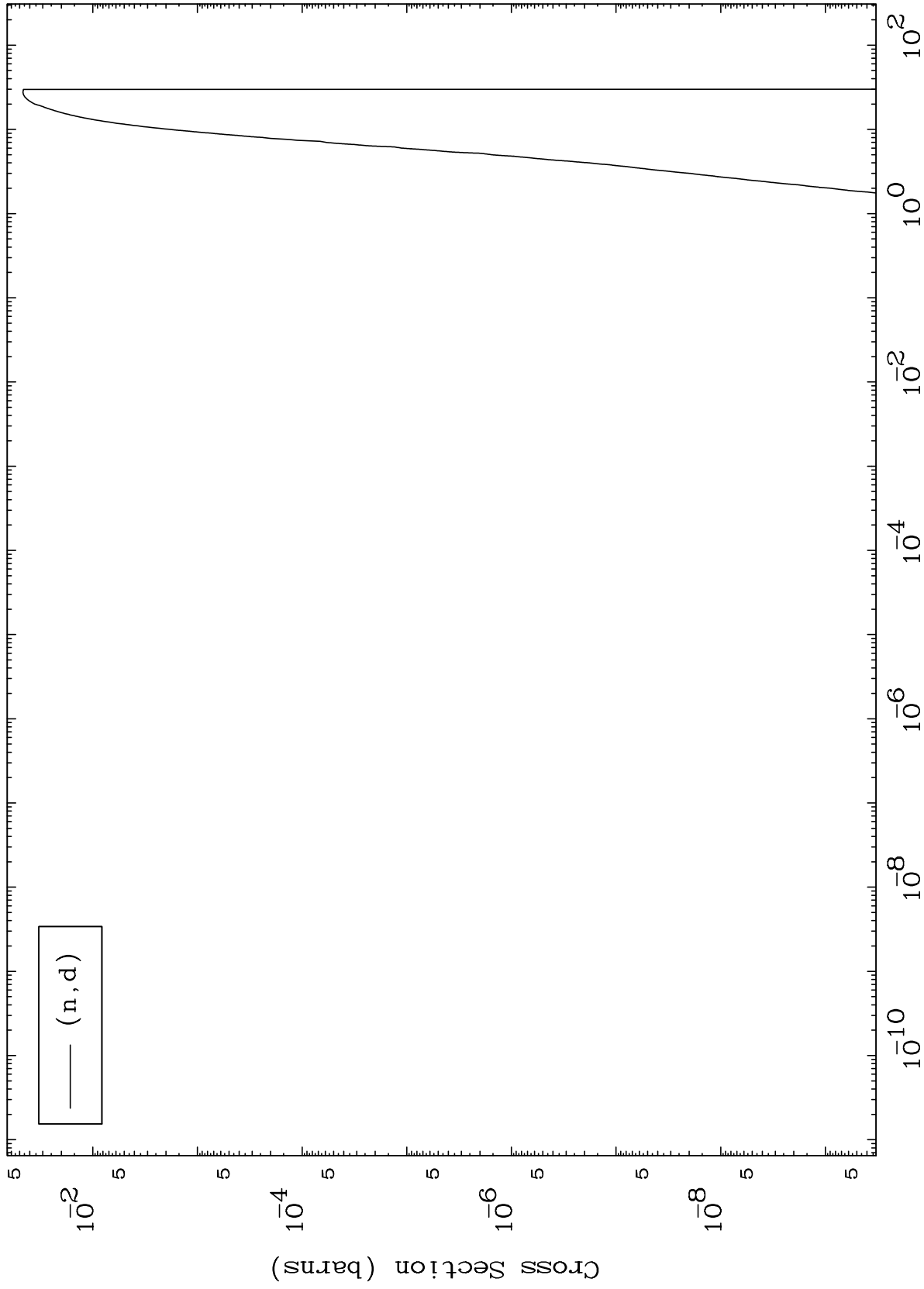
Incident Energy (MeV)

79-Au-177

MAT 7865

(n,d) Levels  
293 Kelvin Cross Sections

79-Au-177



12

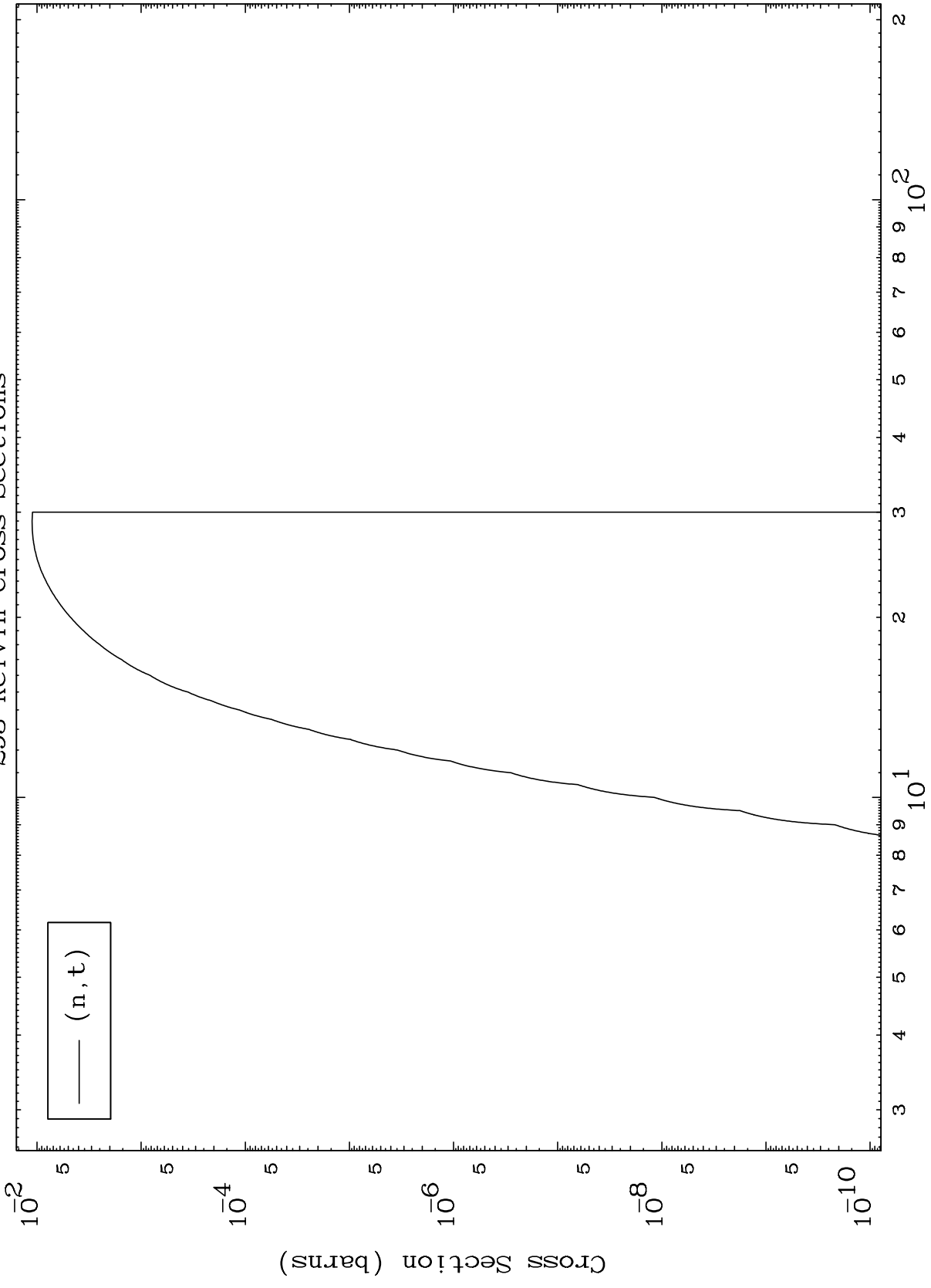
Incident Energy (MeV)

79-Au-177

MAT 7865

(n,t) Levels  
293 Kelvin Cross Sections

79-Au-177



13

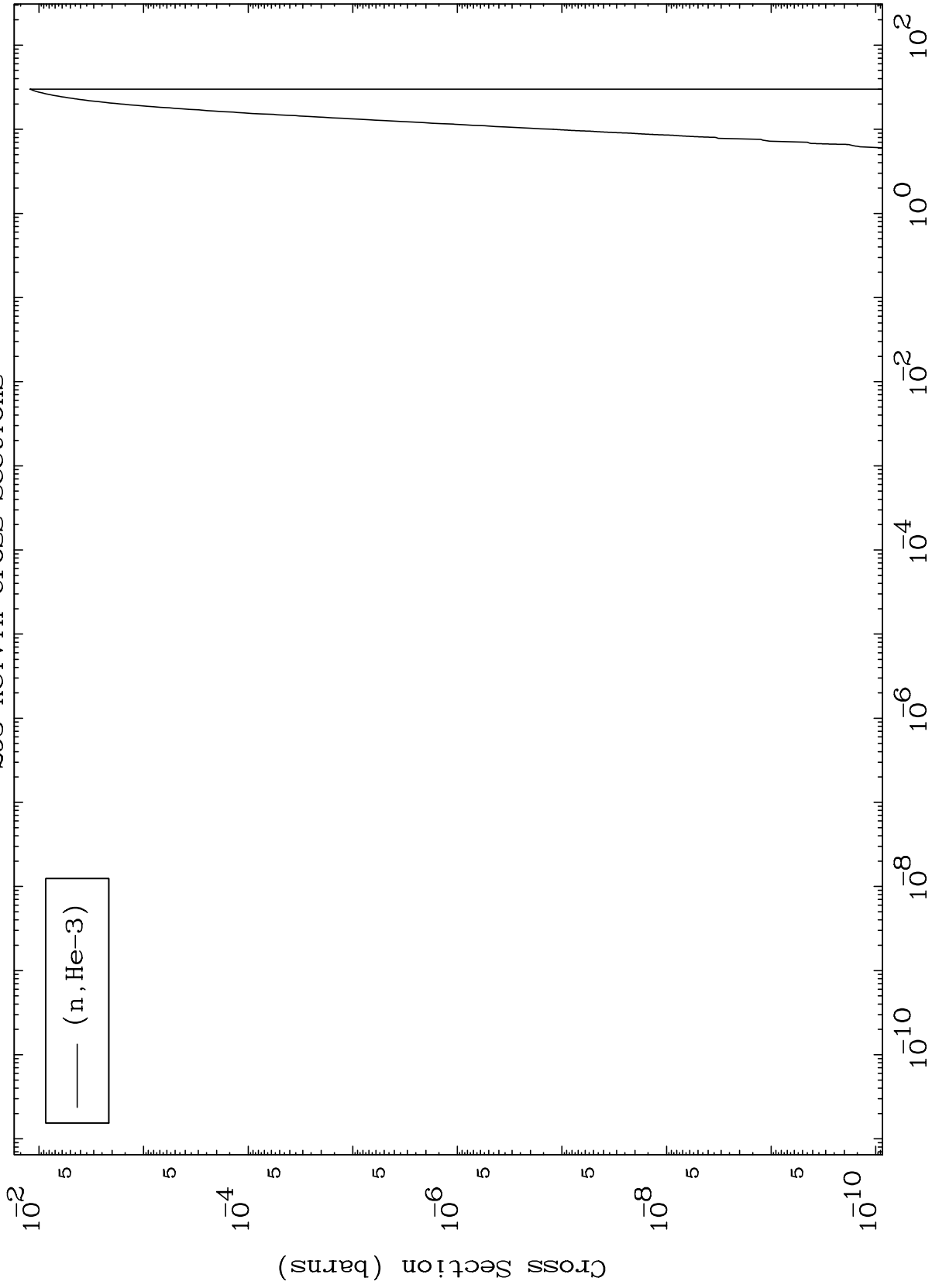
Incident Energy (MeV)

79-Au-177

MAT 7865

(n,He3) Levels  
293 Kelvin Cross Sections

79-Au-177



14

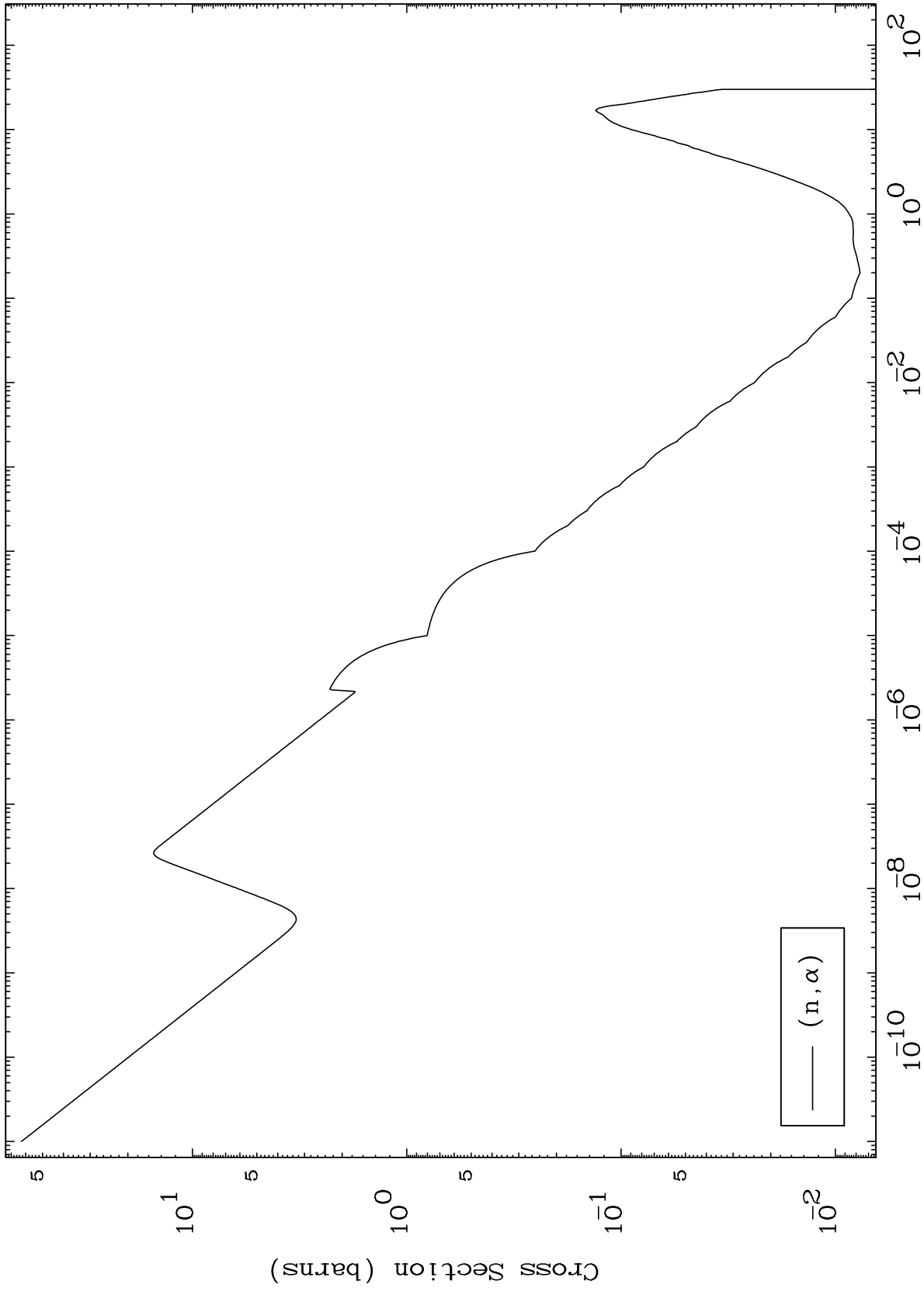
Incident Energy (MeV)

79-Au-177

MAT 7865

(n,α) Levels  
293 Kelvin Cross Sections

79-Au-177

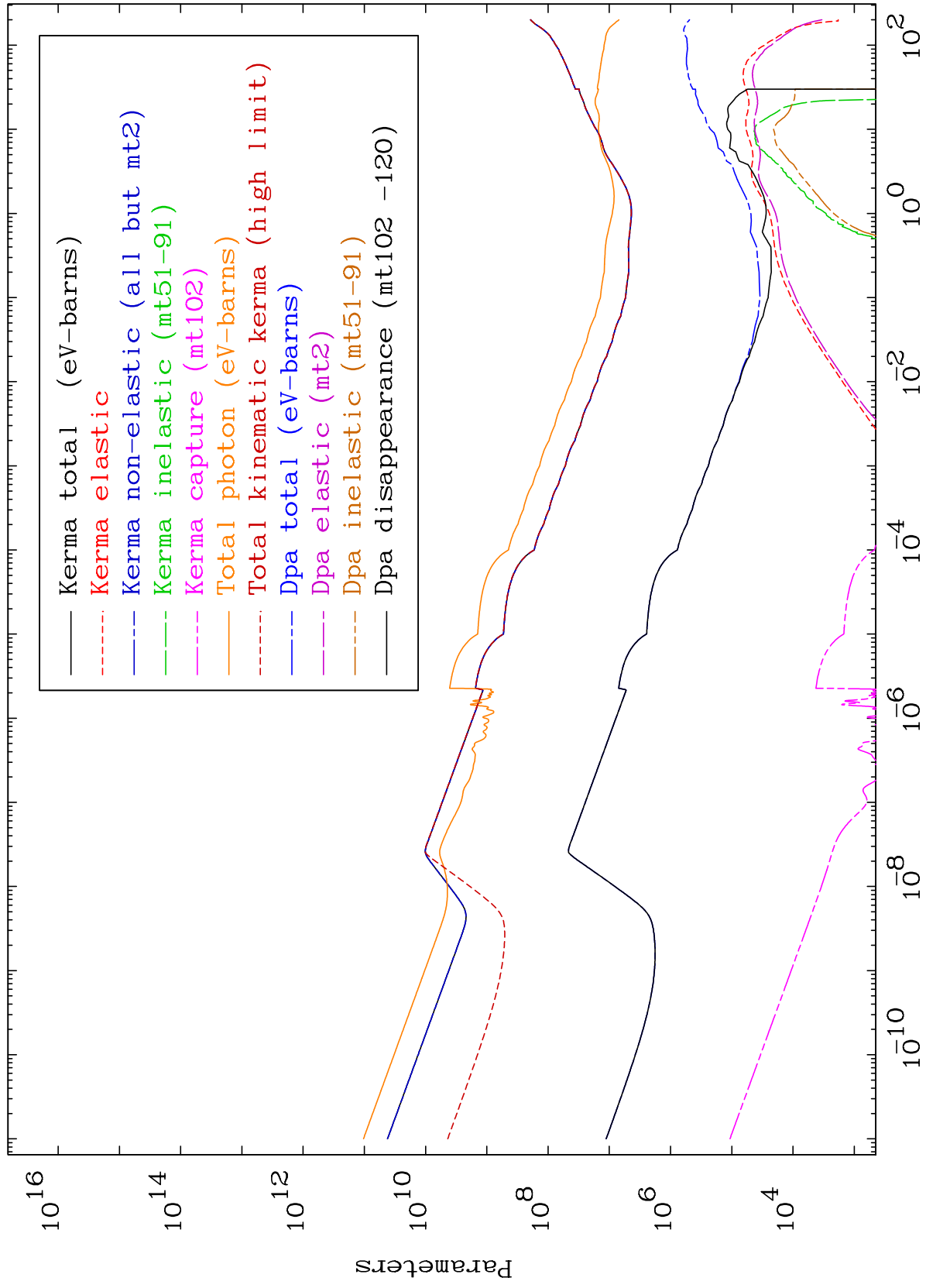


15

Incident Energy (MeV)

79-Au-177

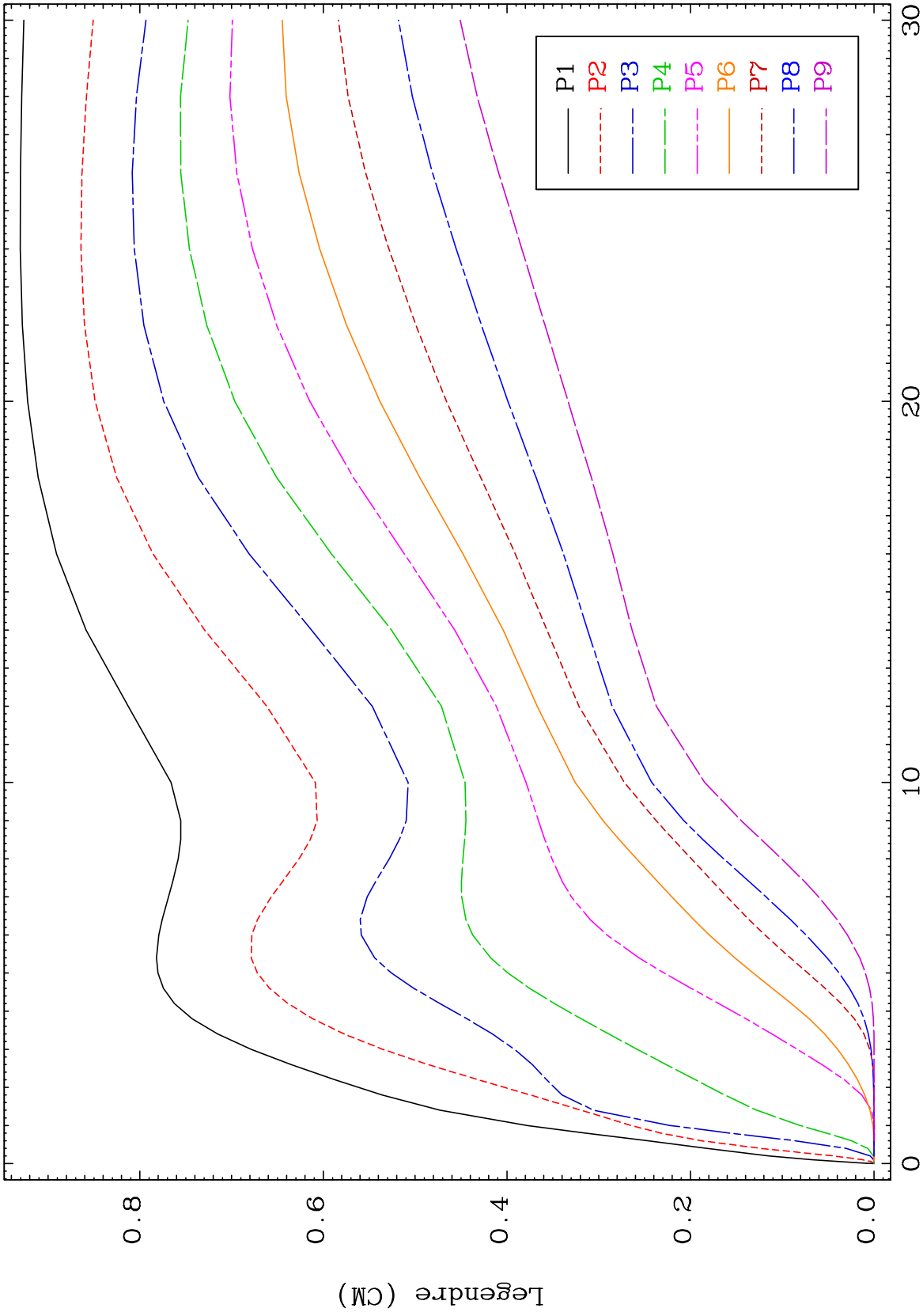




MAT 7865

Elastic Legendre Coefficients

<sup>79</sup>Au-177



0

0.0

0.2

0.4

0.6

0.8

10

20

30

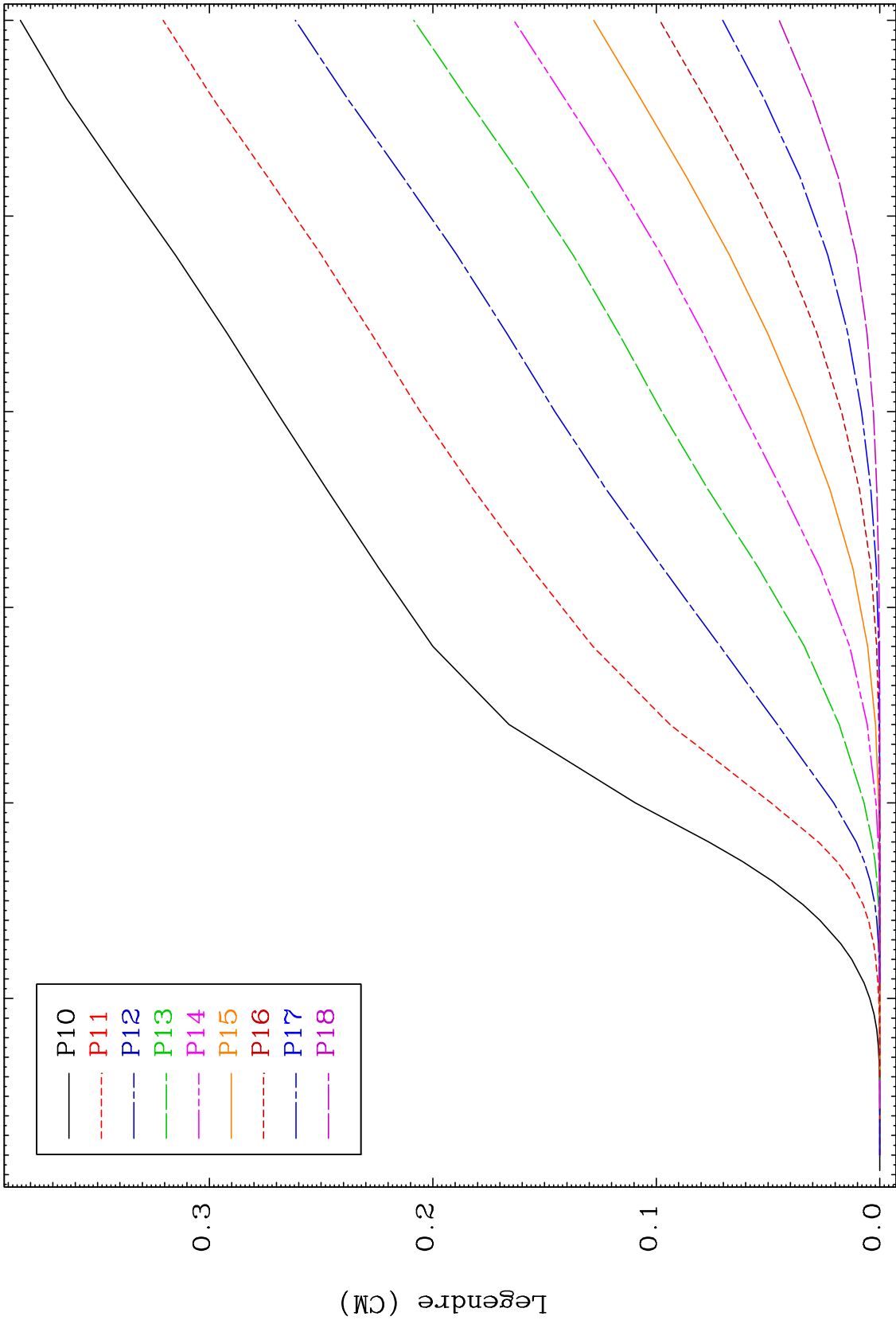
Incident Energy (MeV)

<sup>79</sup>Au-177

MAT 7865

Elastic Legendre Coefficients

<sup>79</sup>Au-177



18

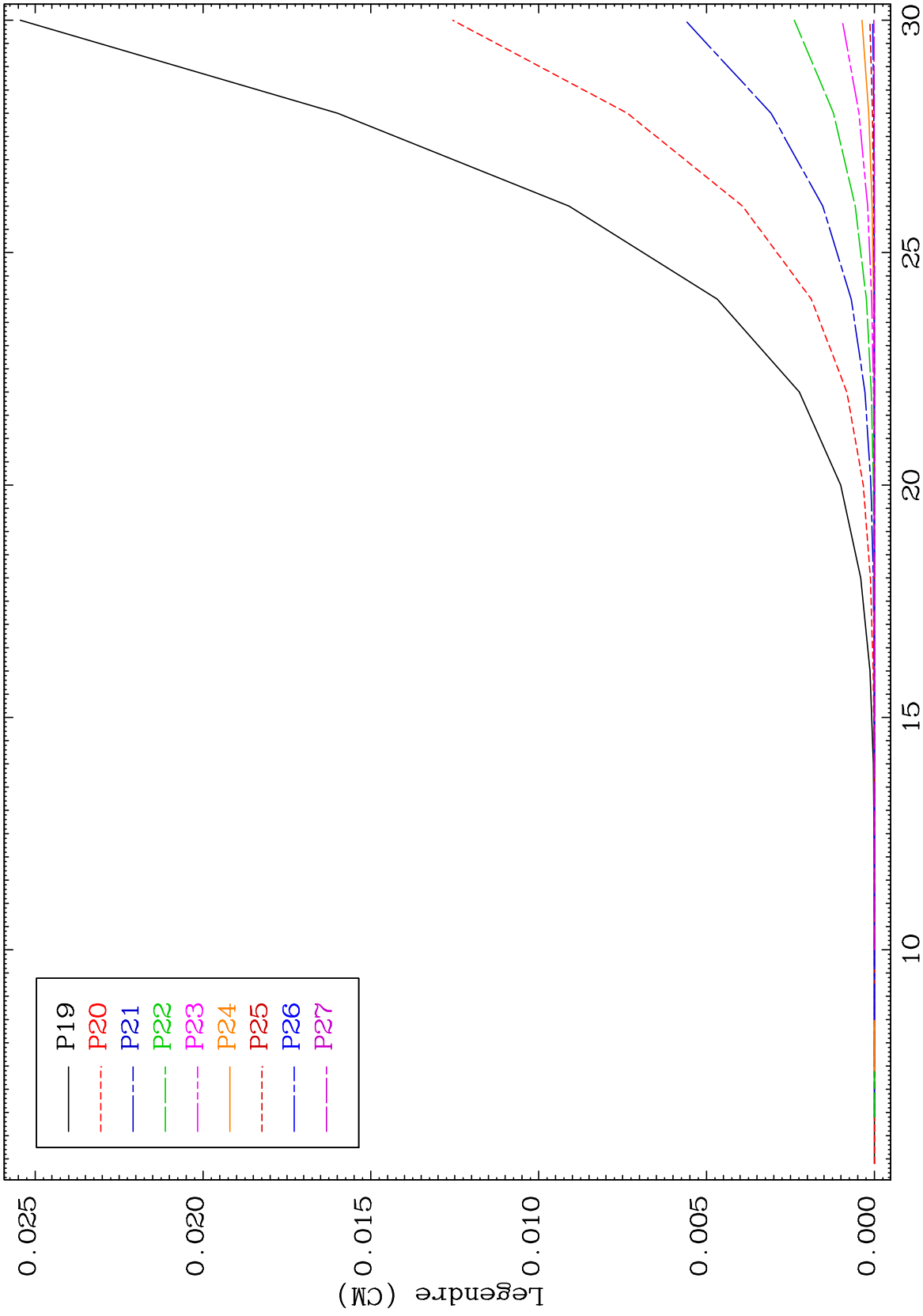
Incident Energy (MeV)

<sup>79</sup>Au-177

MAT 7865

### Elastic Legendre Coefficients

79-Au-177



19

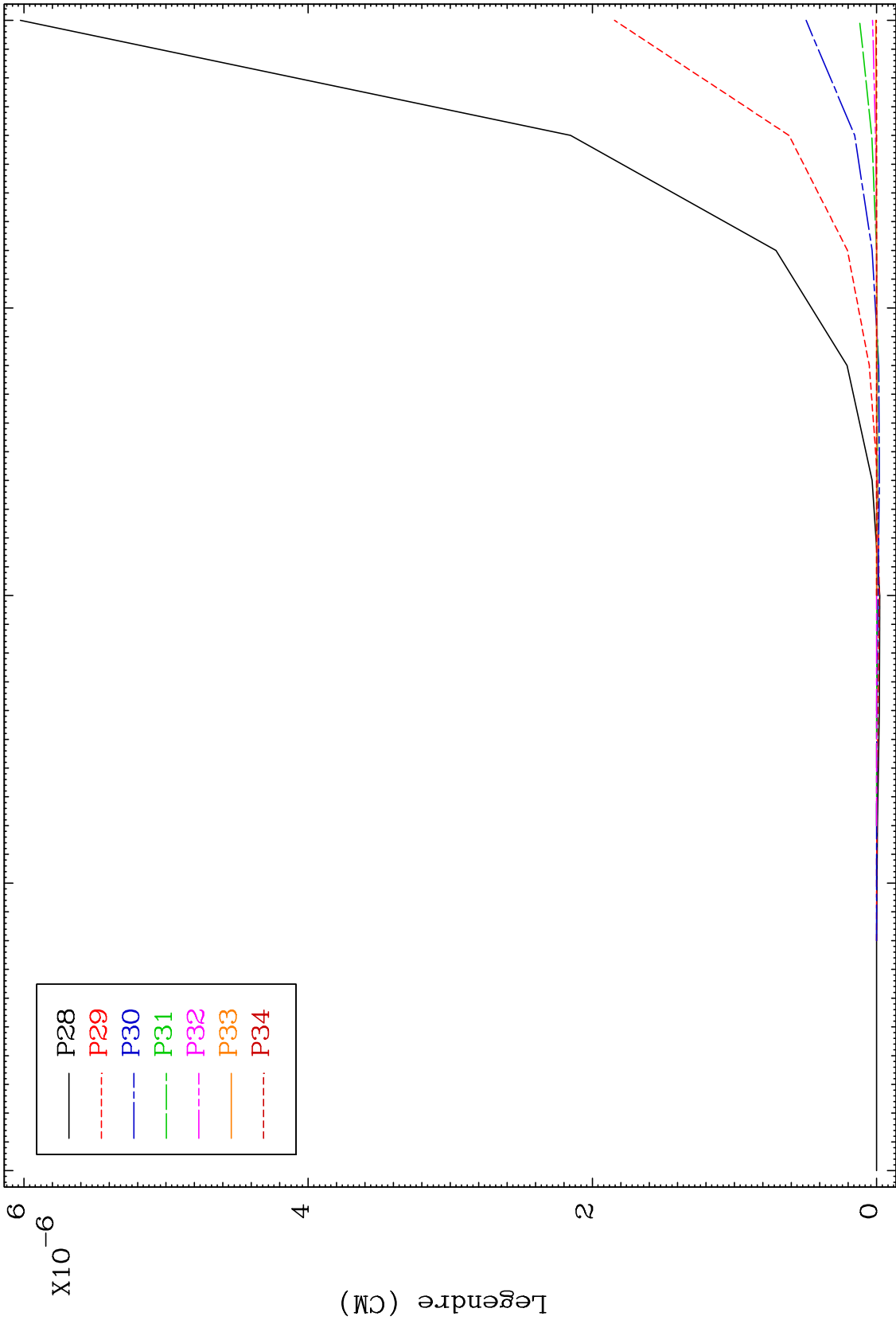
Incident Energy (MeV)

79-Au-177

MAT 7865

Elastic Legendre Coefficients

79-Au-177



20

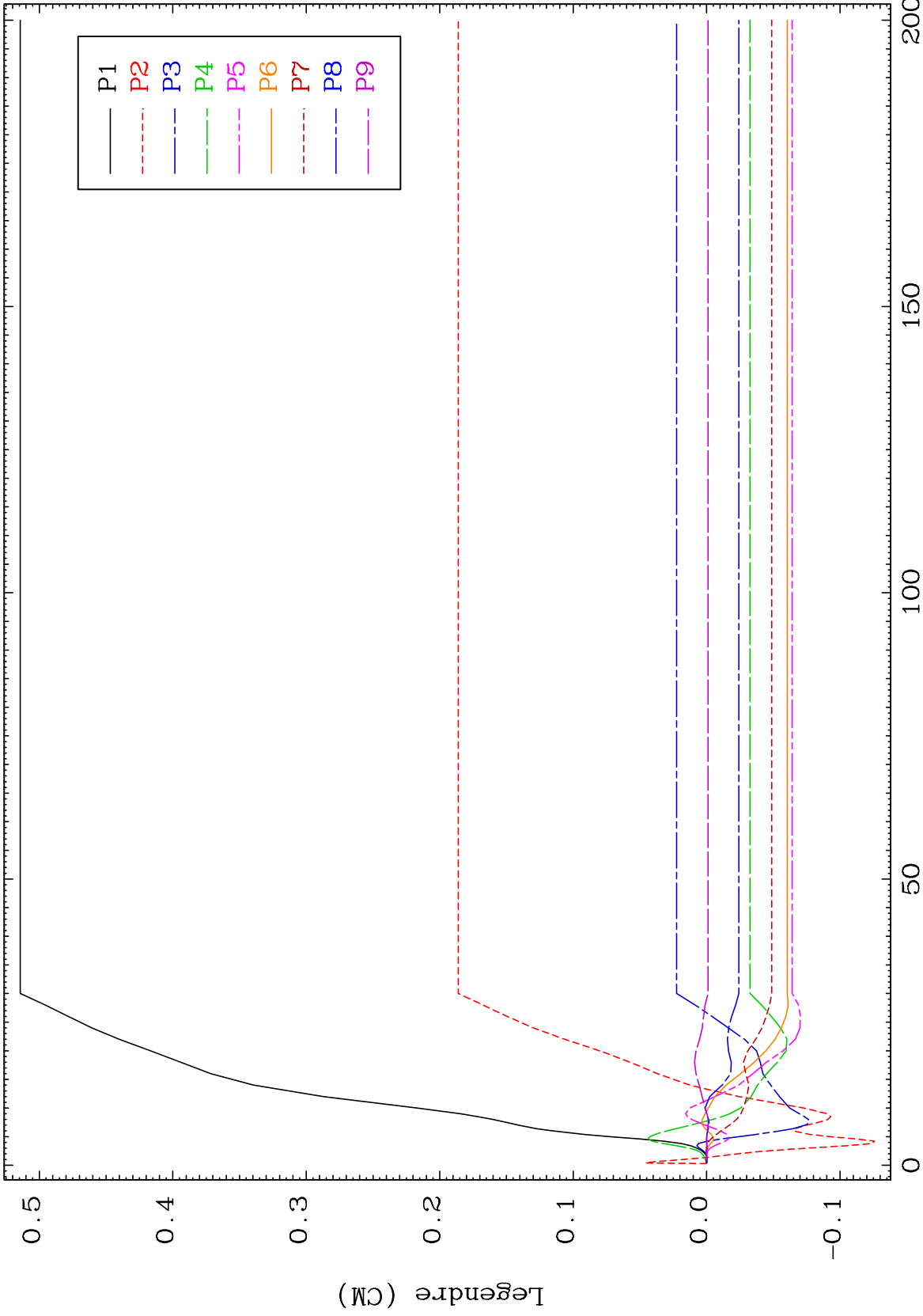
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



21

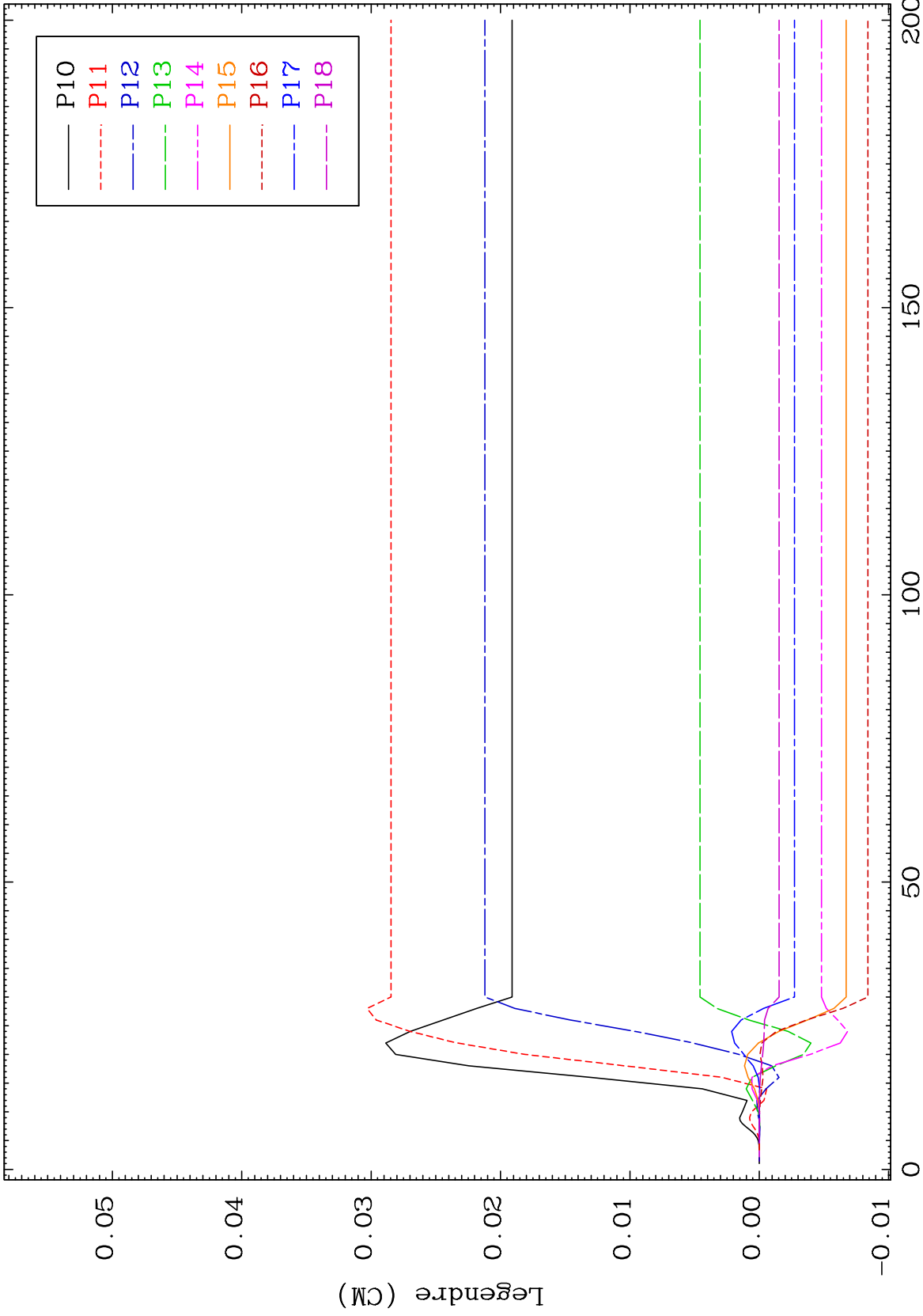
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



22

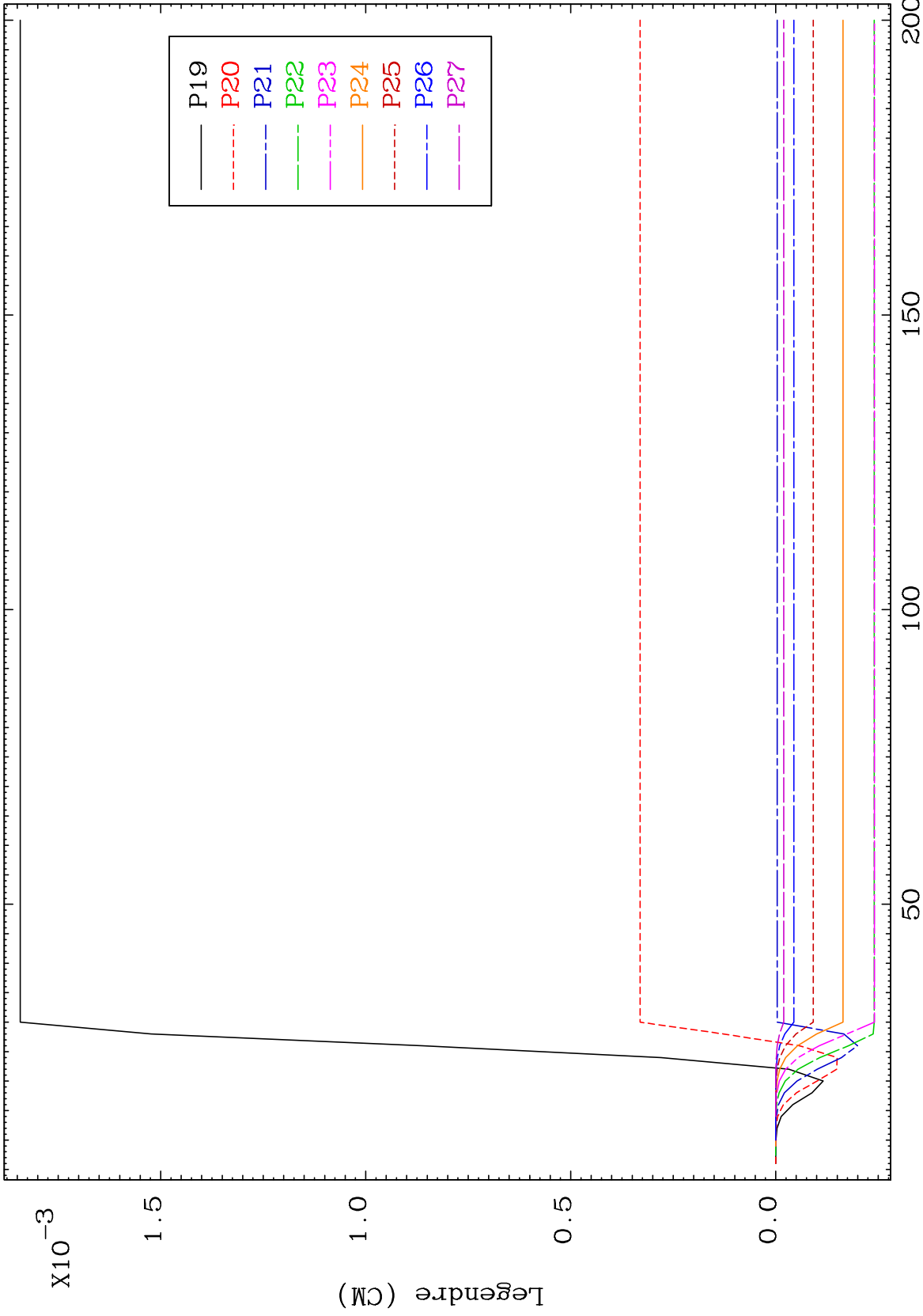
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



23

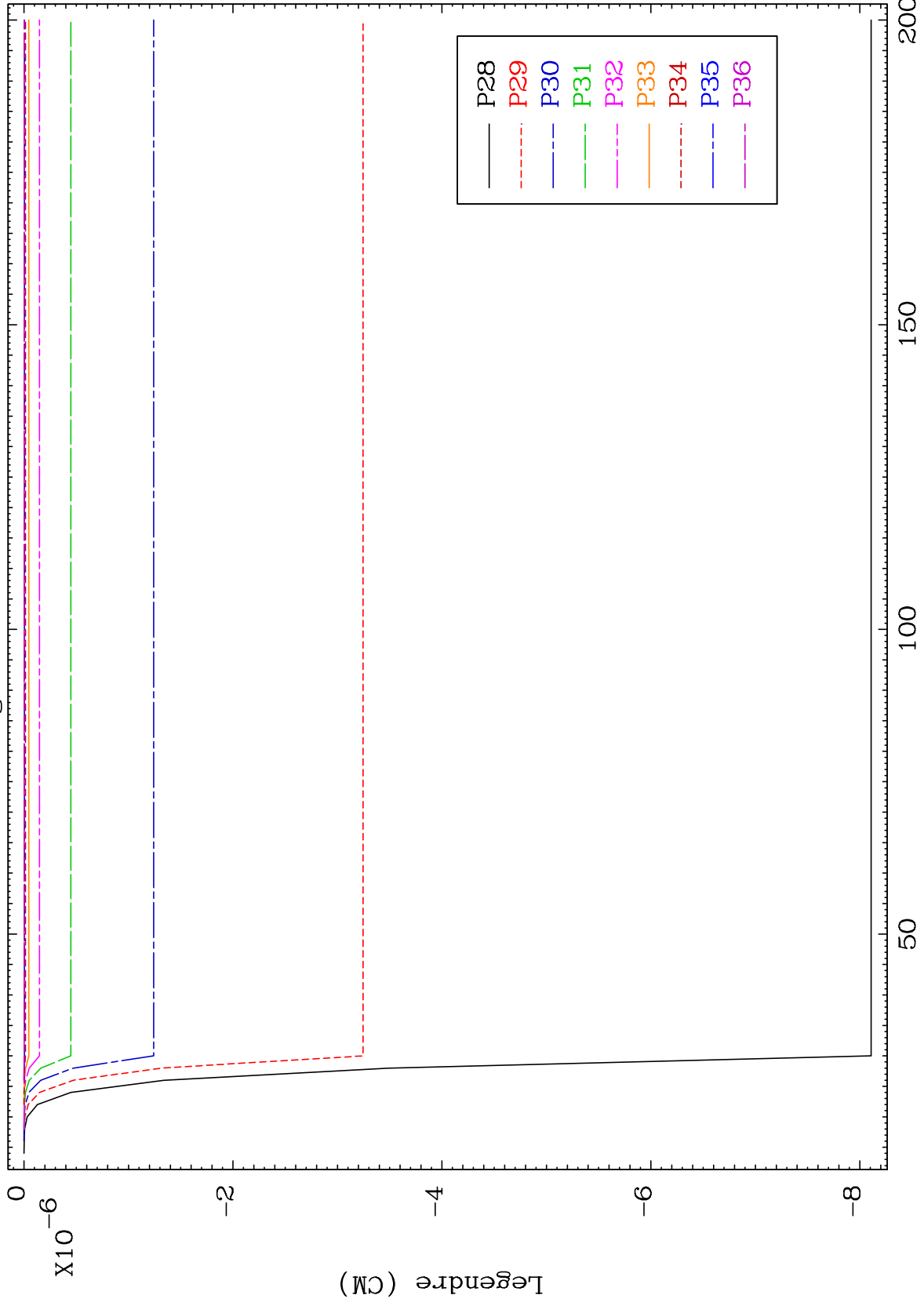
79-Au-177



MAT 7865

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

79-Au-177



79-Au-177

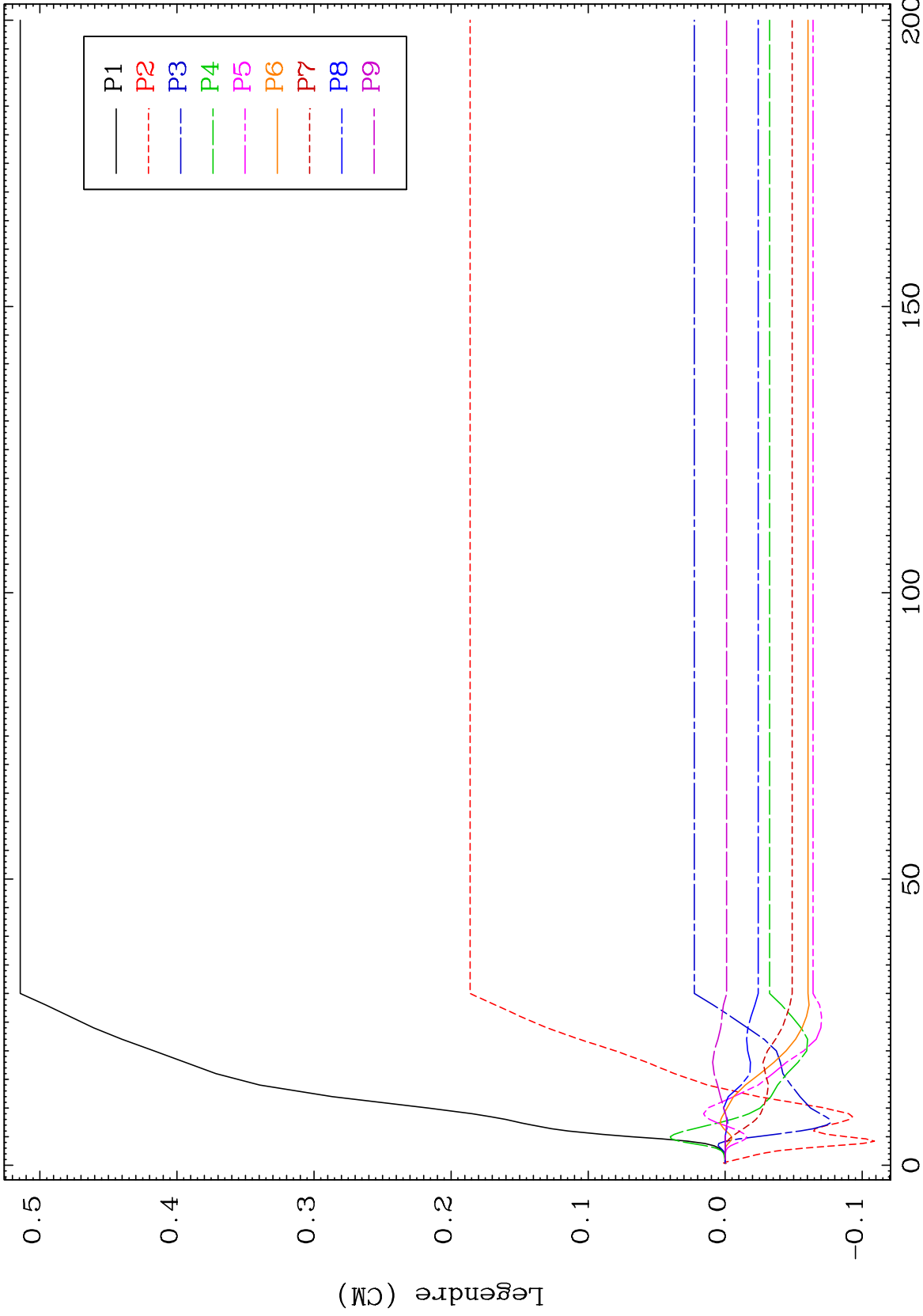
Incident Energy (MeV)

24

MAT 7865

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

79-Au-177



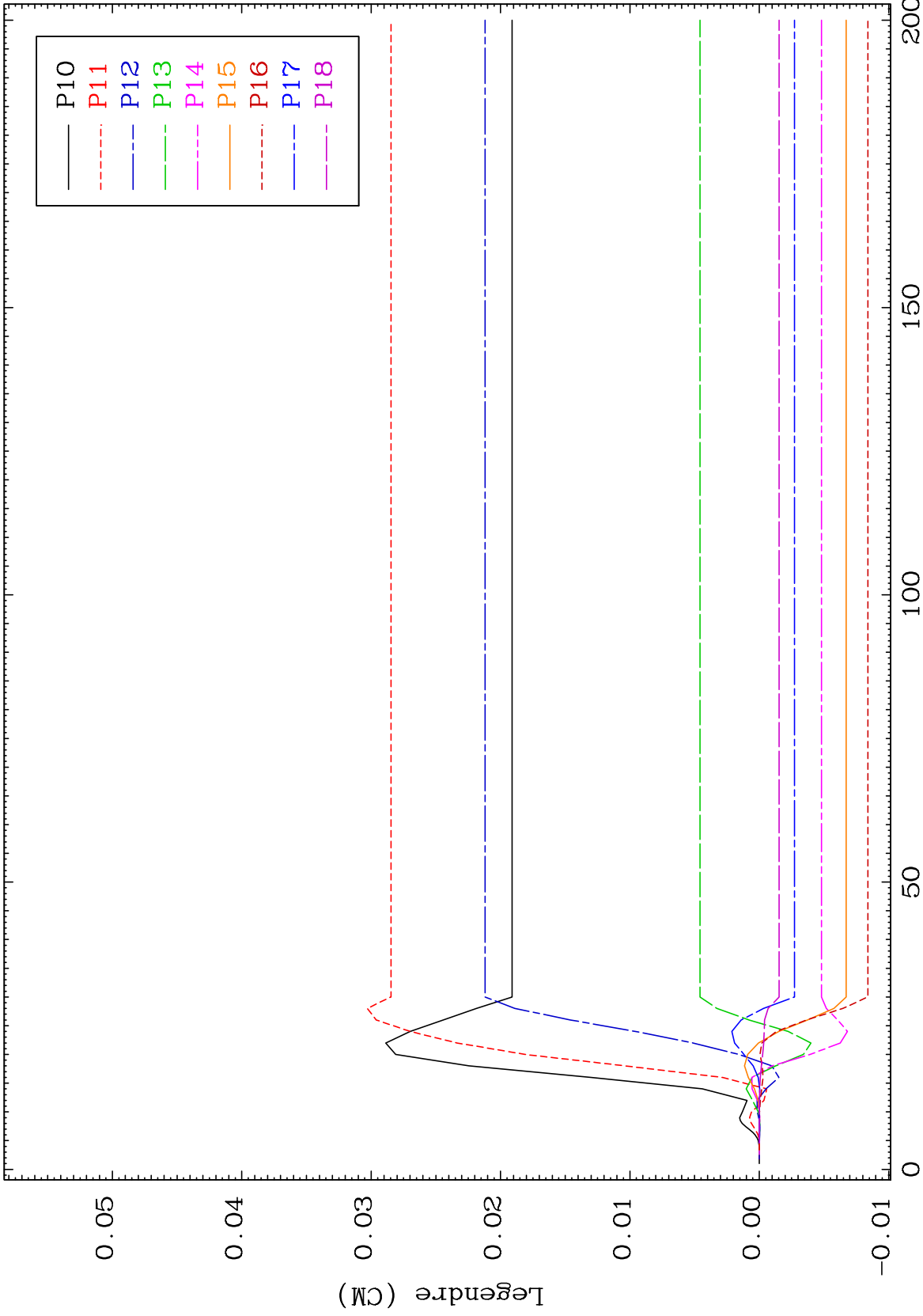
79-Au-177

25

MAT 7865

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

79-Au-177



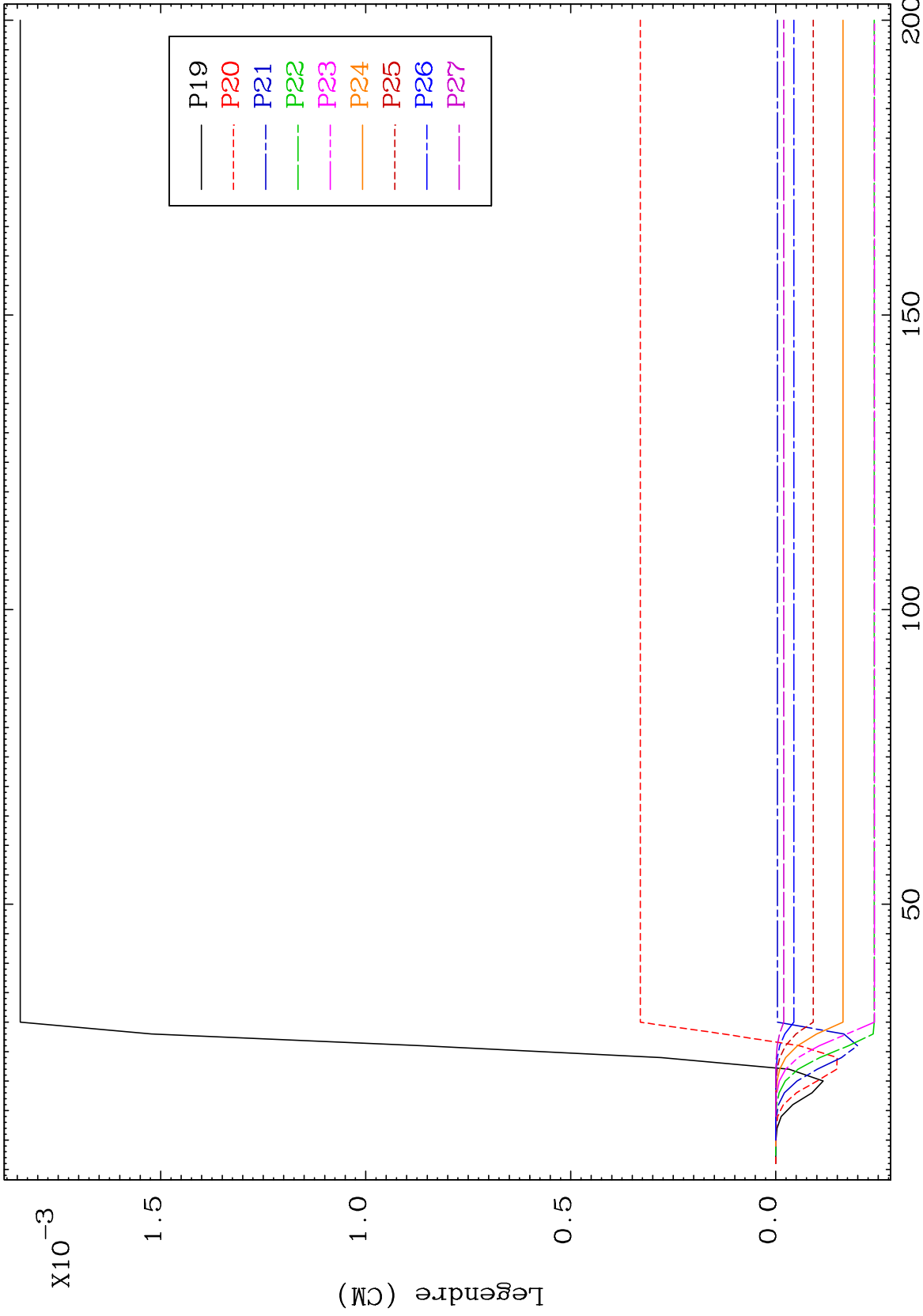
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79-Au-177

MAT 7865

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

79-Au-177



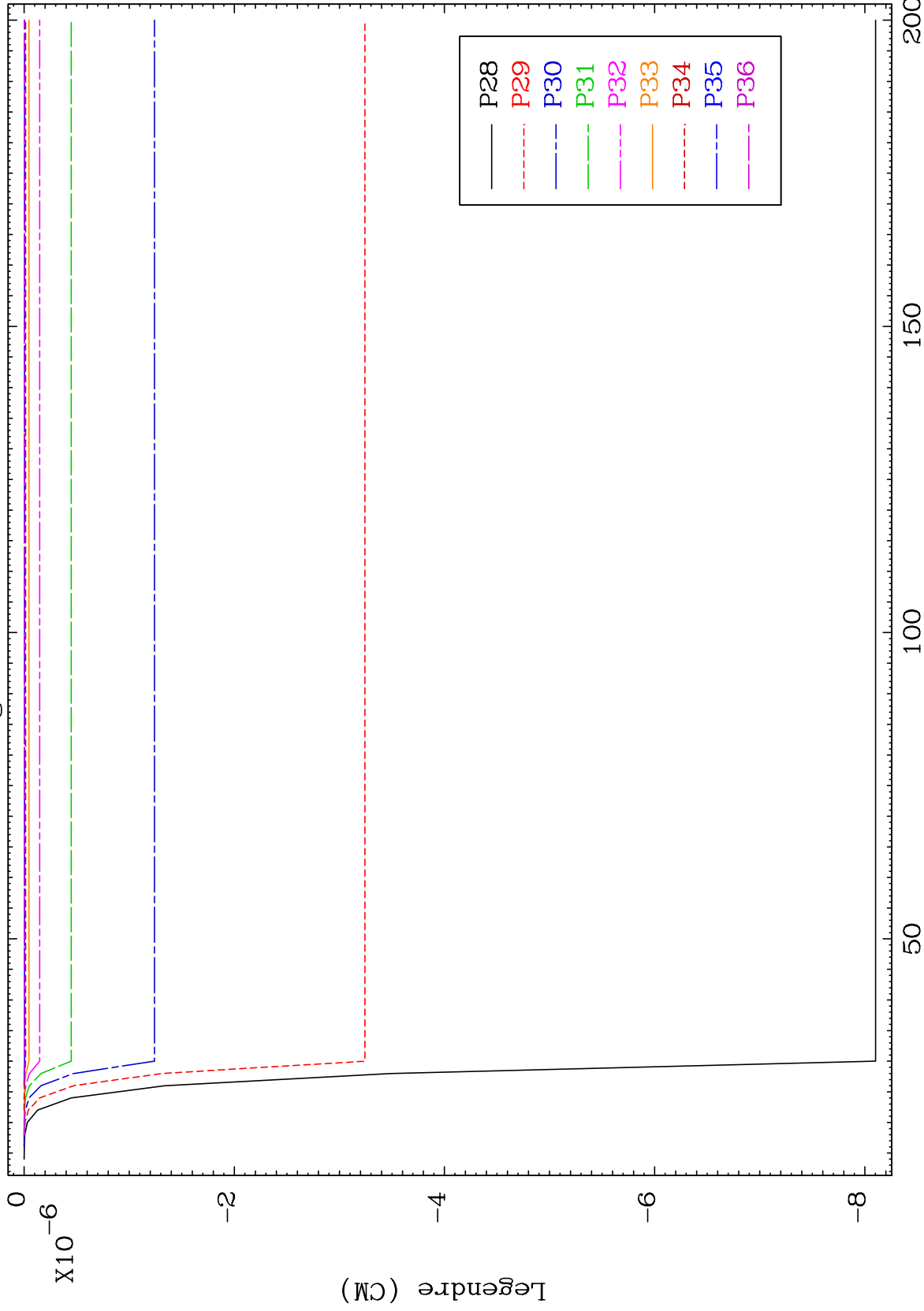
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79-Au-177

MAT 7865

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

79-Au-177



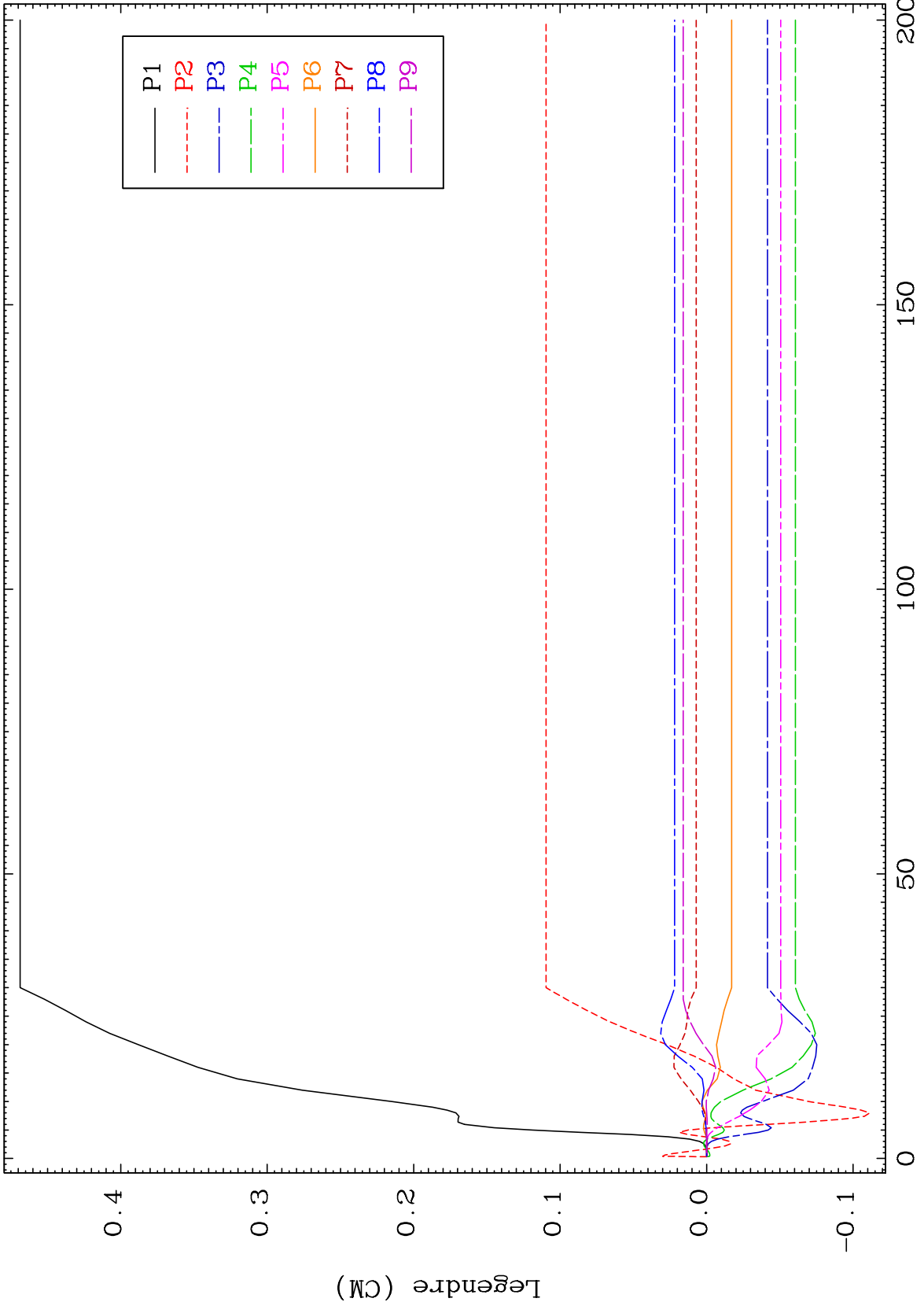
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79-Au-177

MAT 7865

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

79-Au-177



29

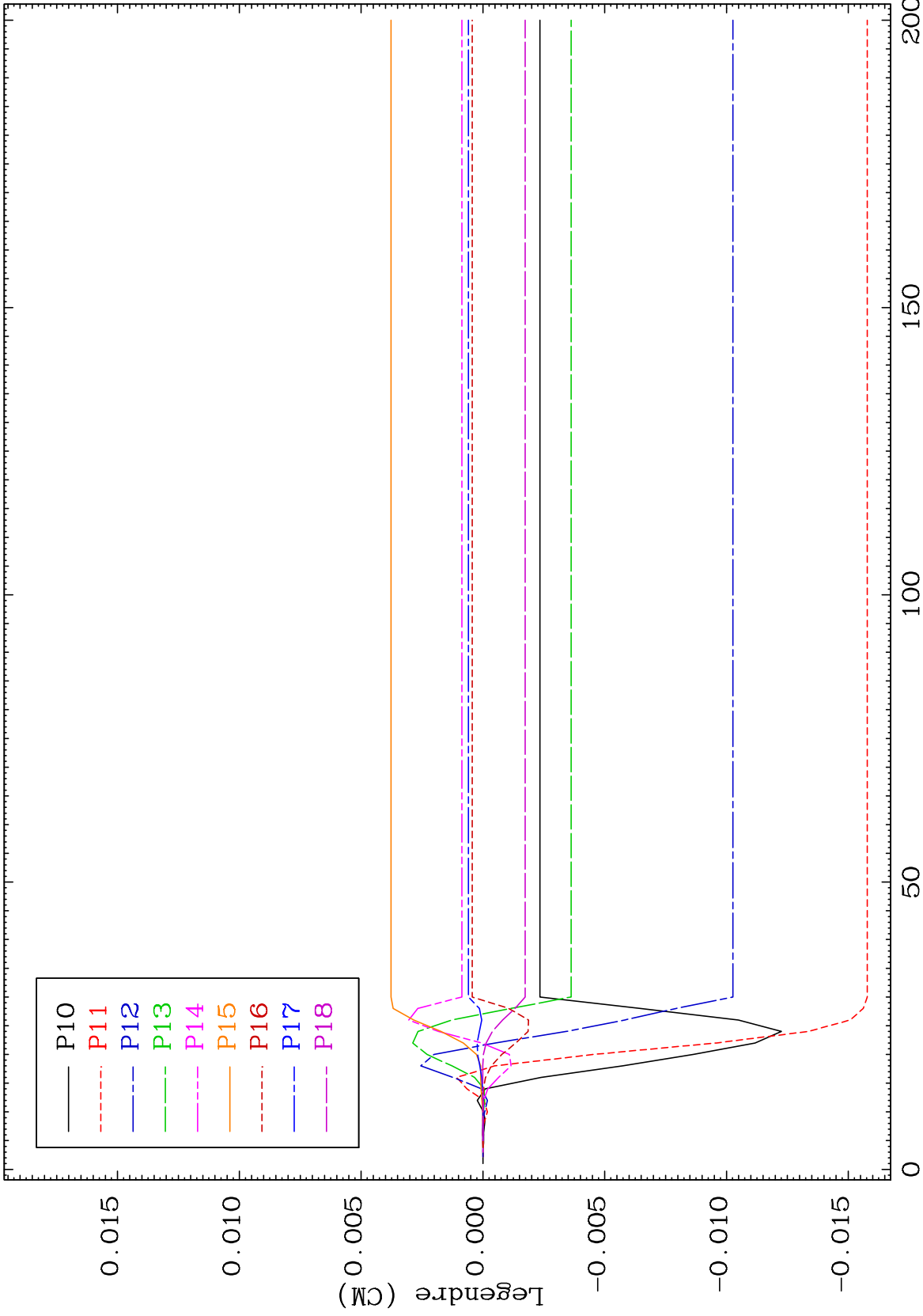
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



30

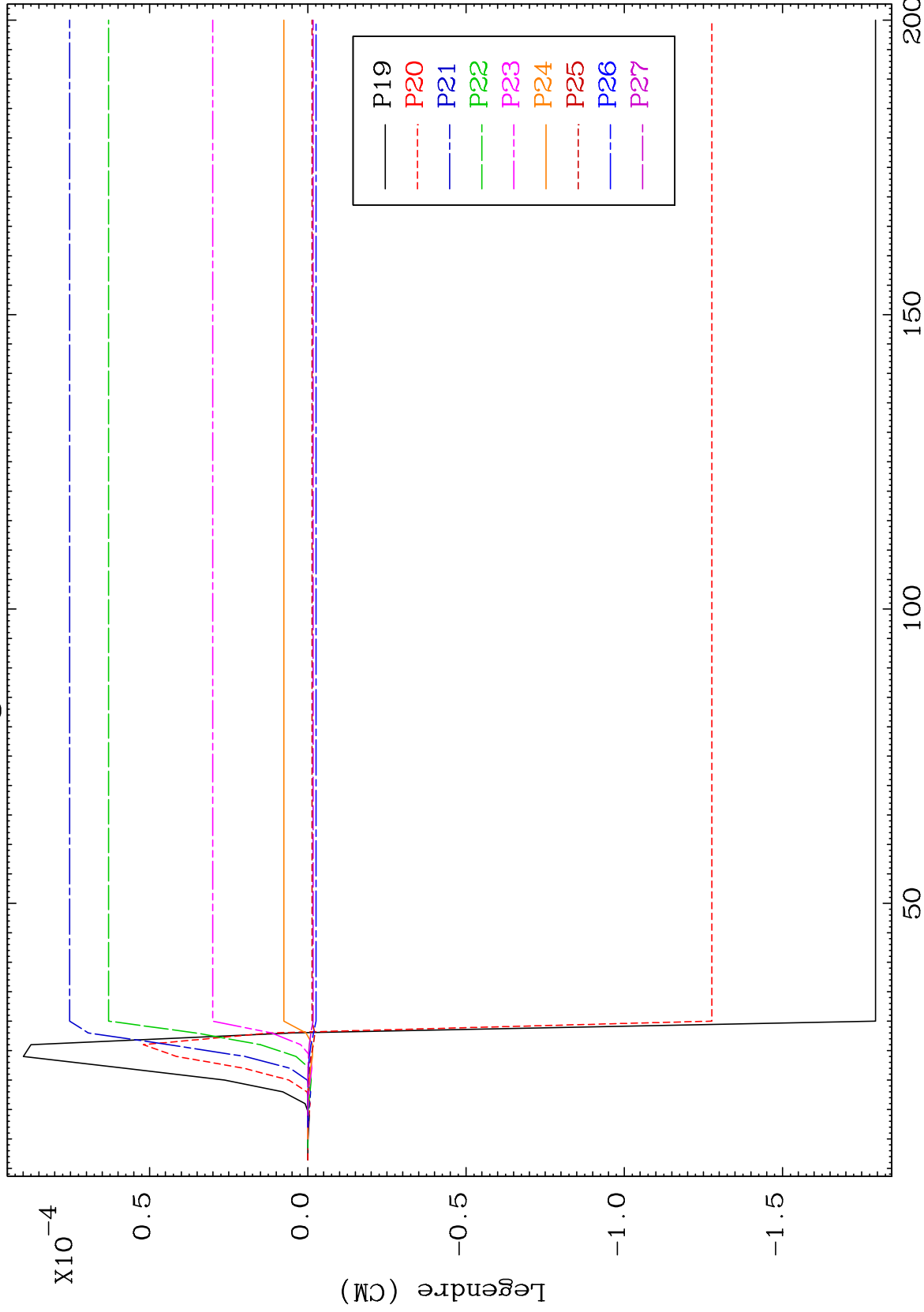
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



31

Incident Energy (MeV)

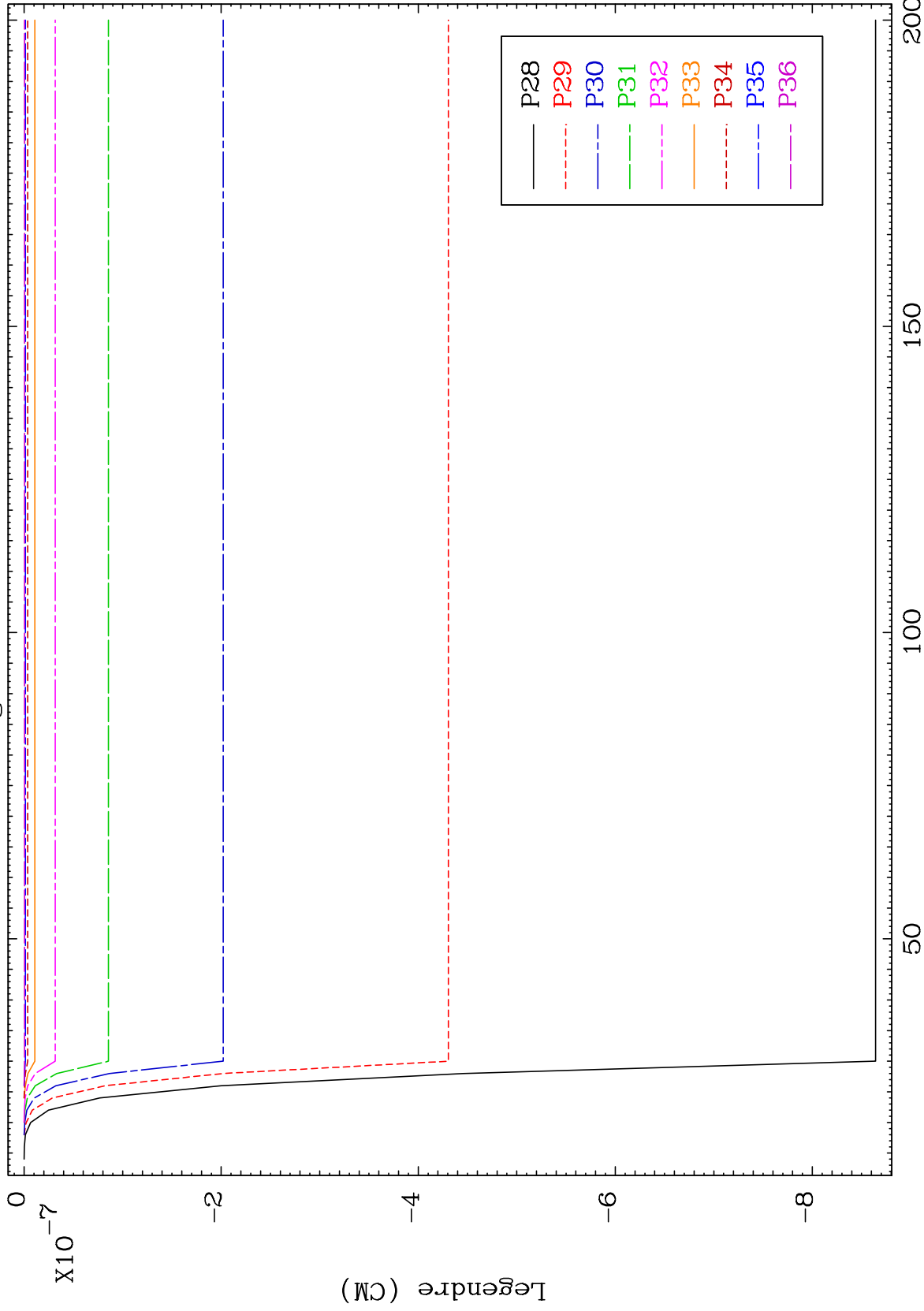
79-Au-177



MAT 7865

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

79-Au-177



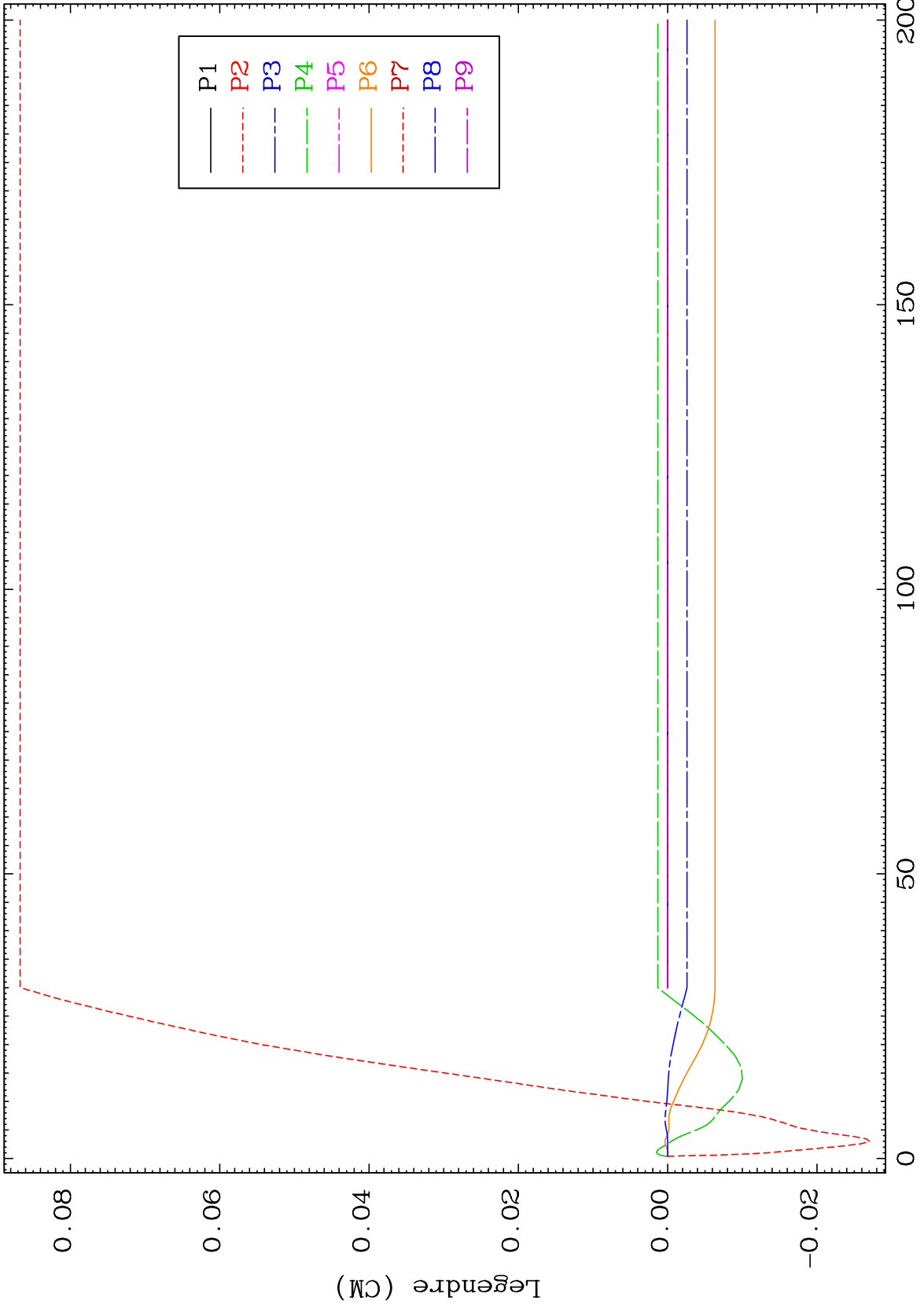
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79-Au-177

MAT 7865

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

79-Au-177



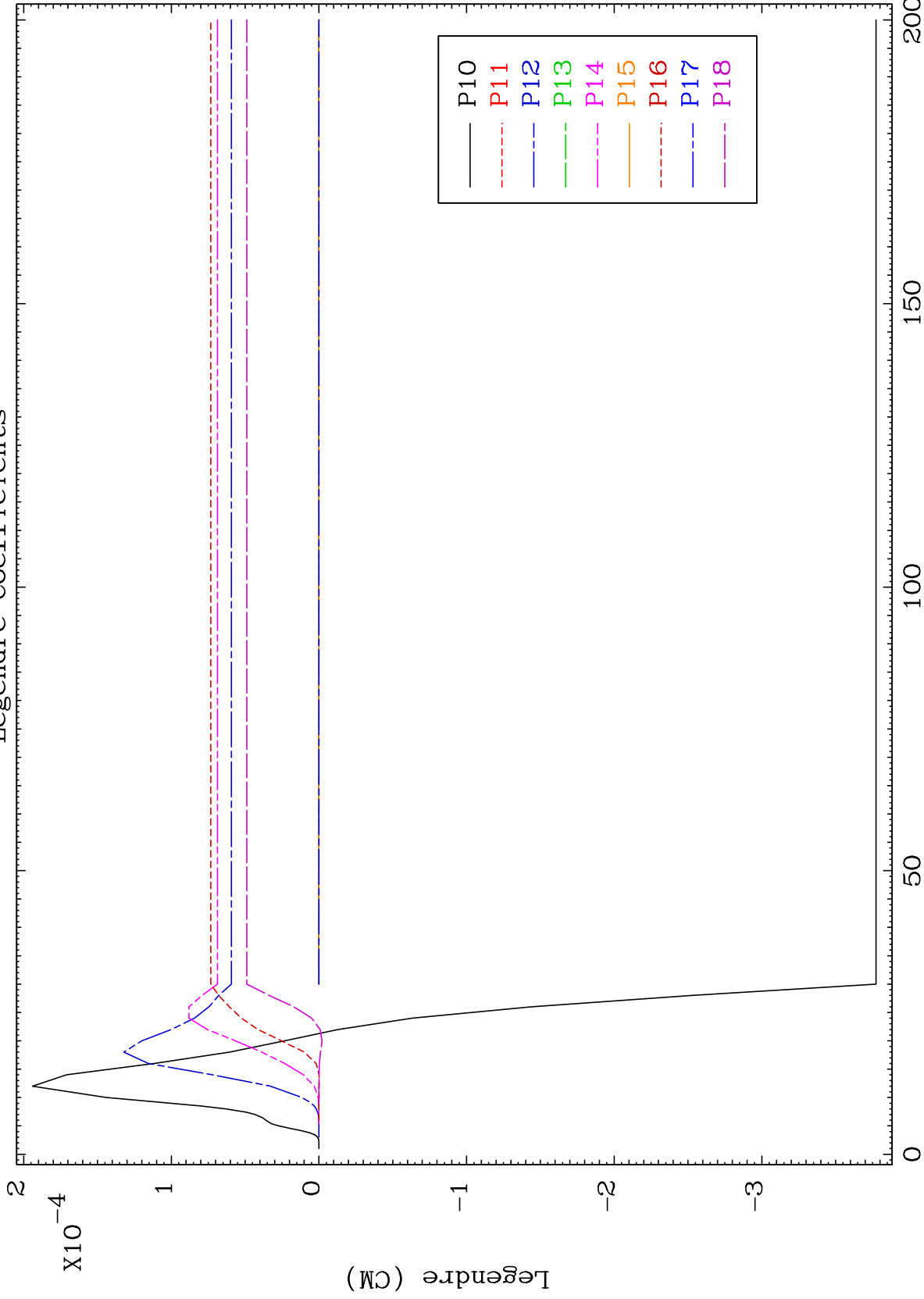
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79-Au-177

MAT 7865

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

79-Au-177



34

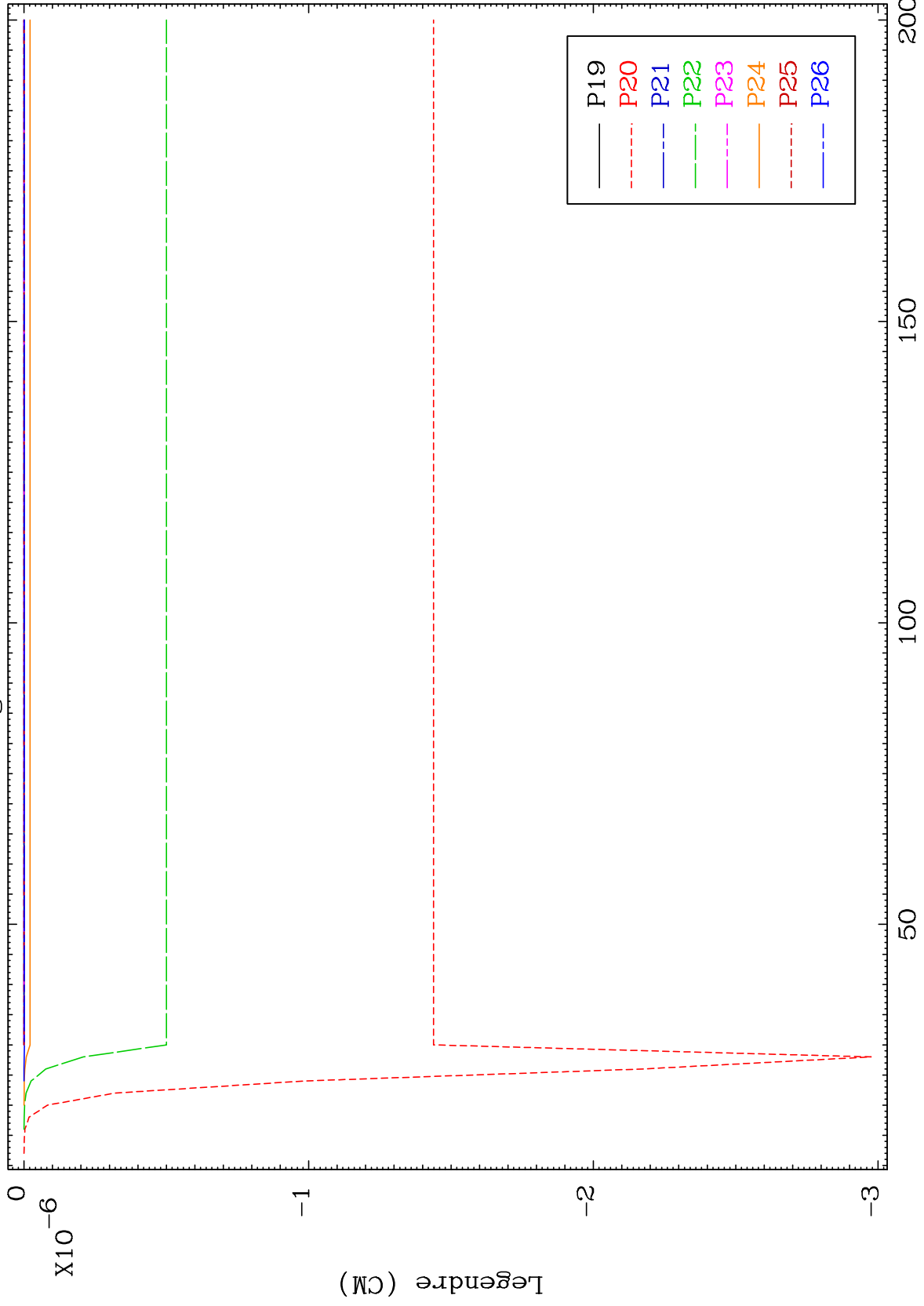
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



79-Au-177

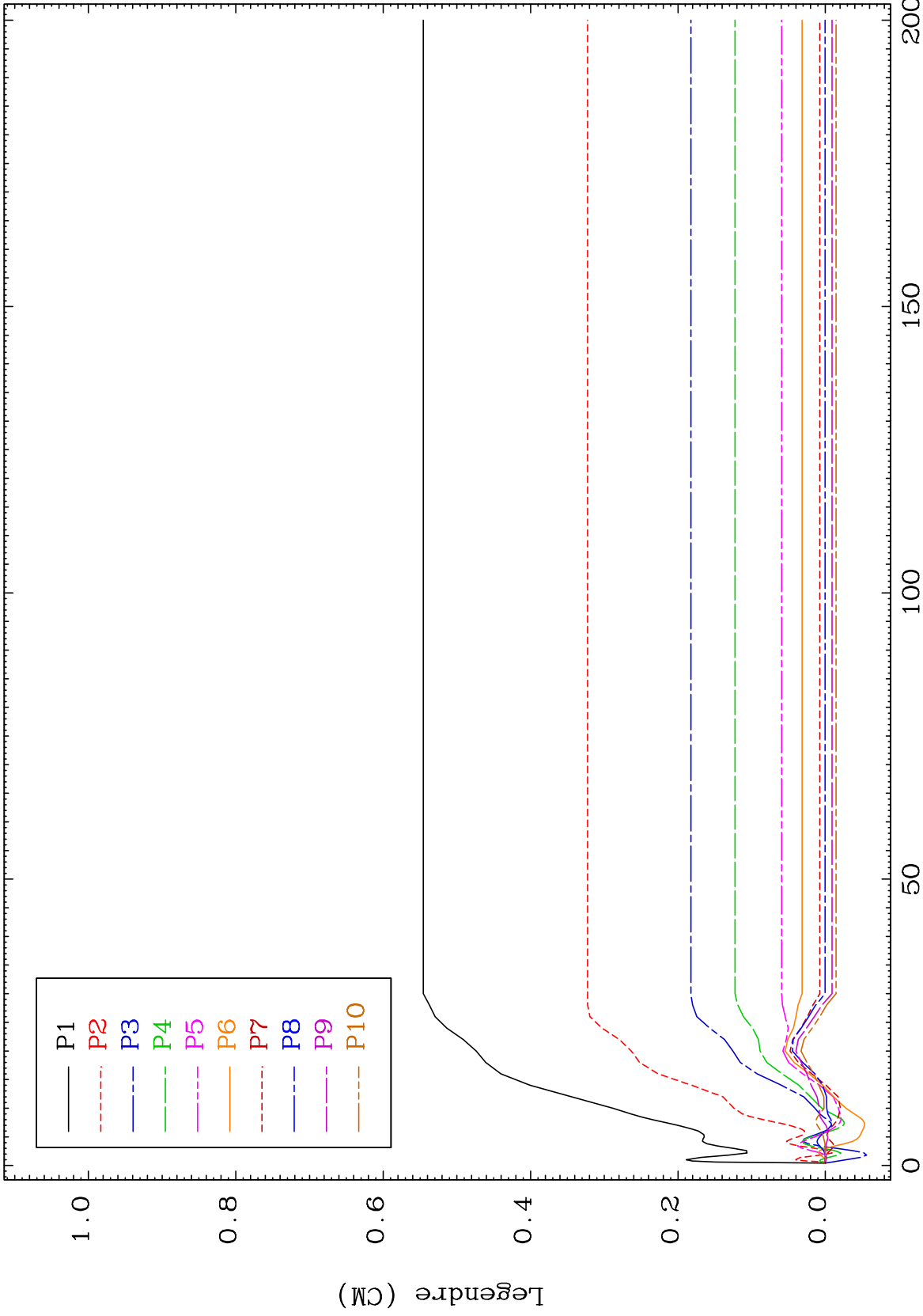
Incident Energy (MeV)

35

MAT 7865

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

79-Au-177



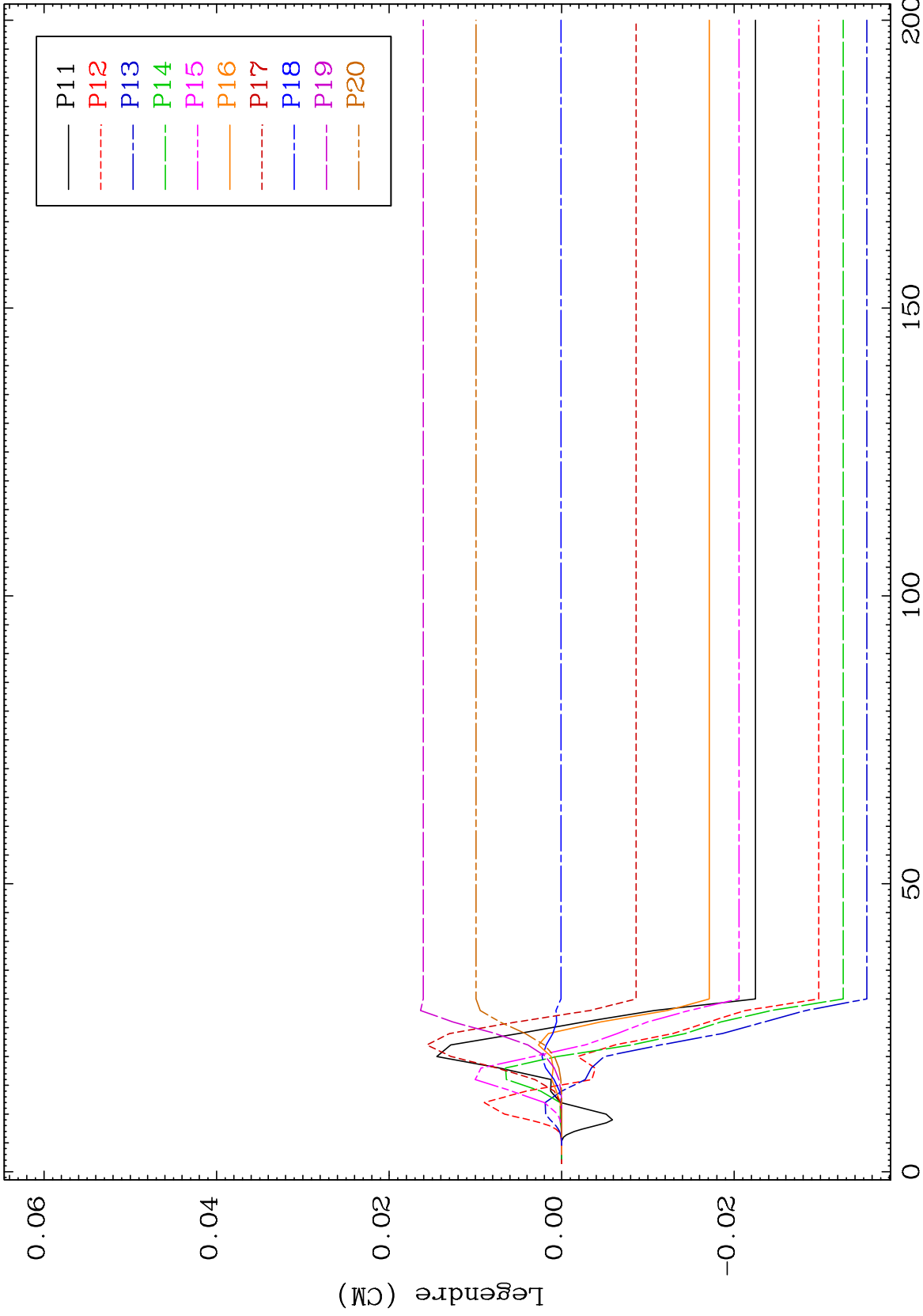
36

79-Au-177

MAT 7865

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

79-Au-177



37

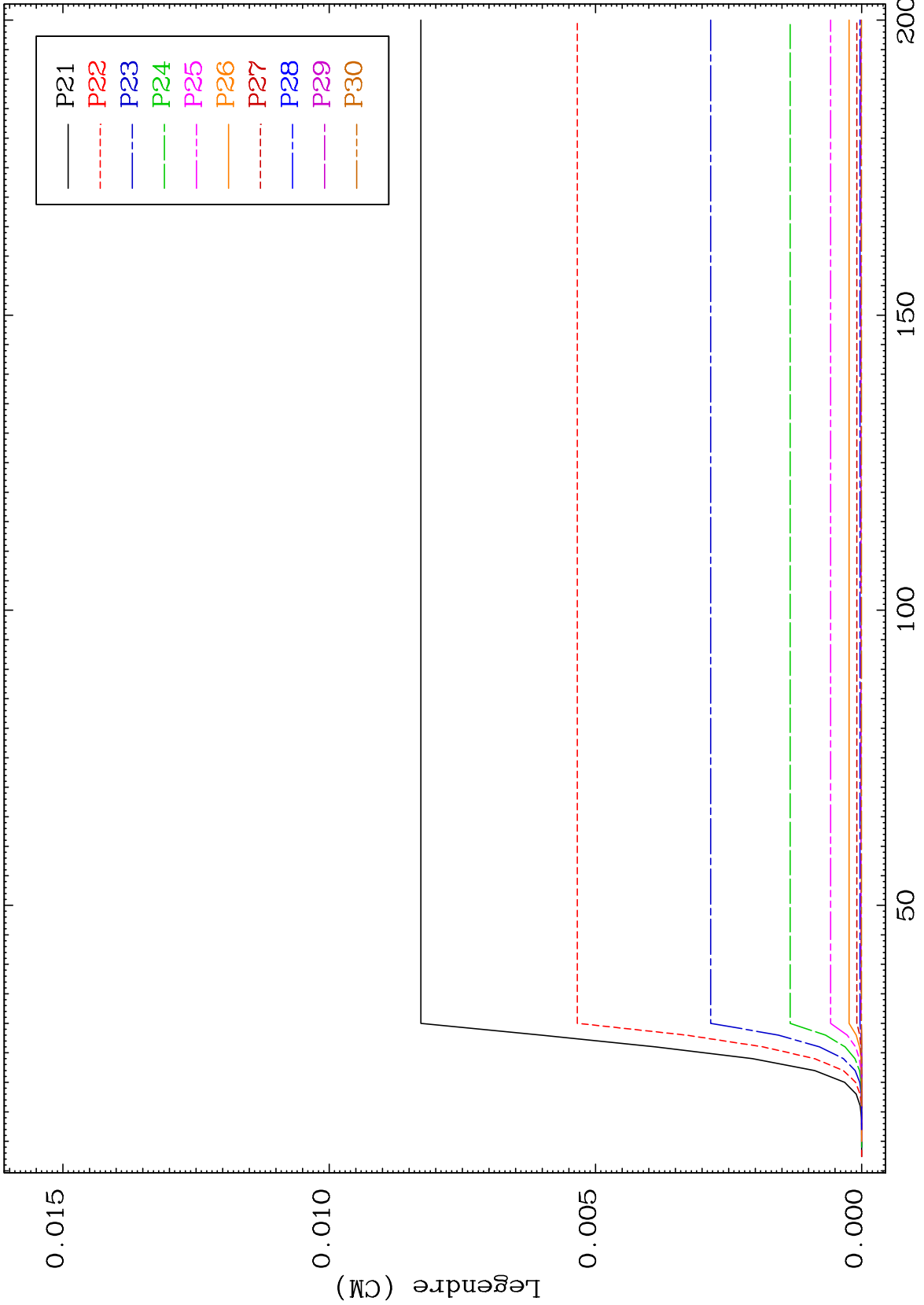
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



38

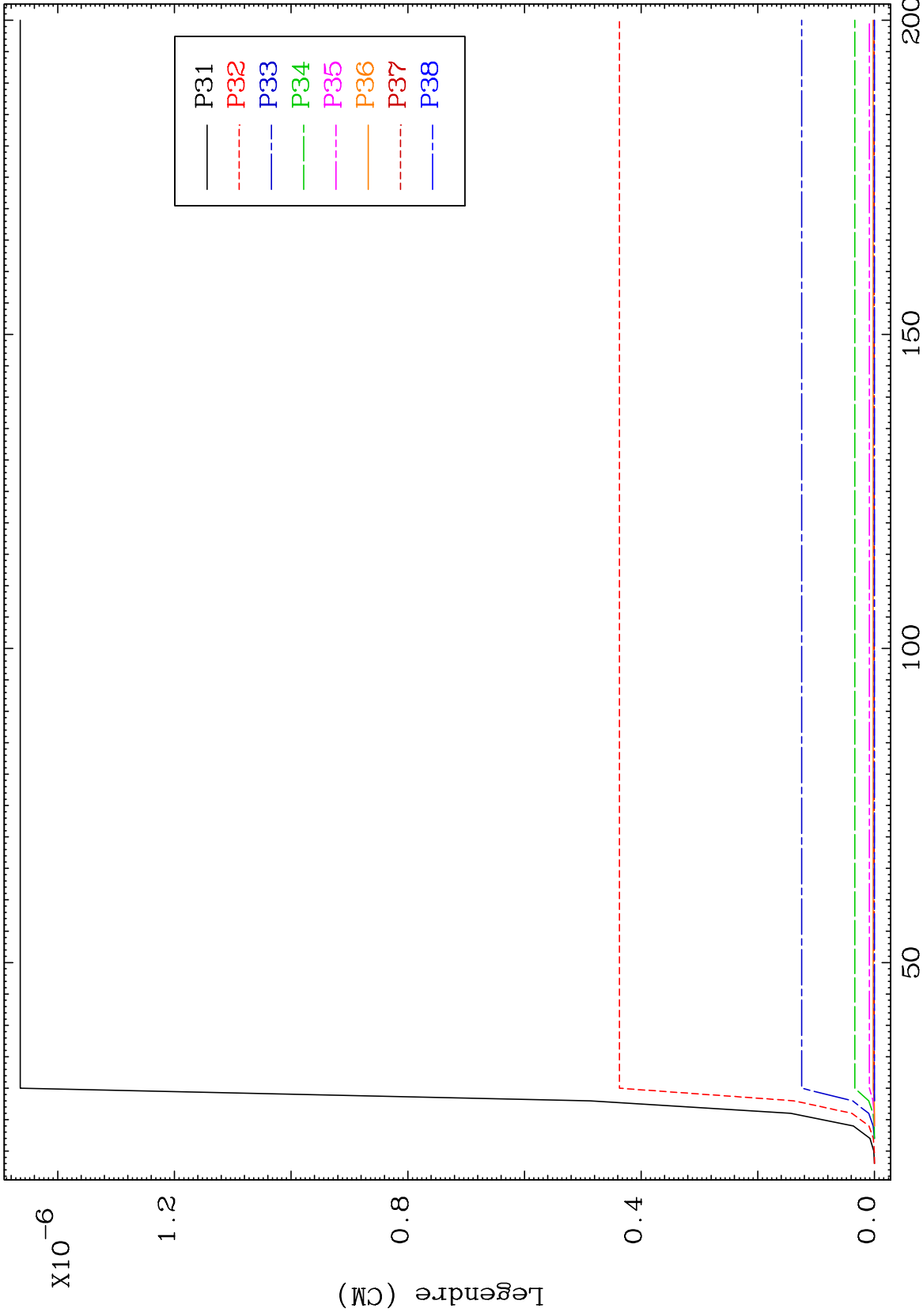
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



39

Incident Energy (MeV)

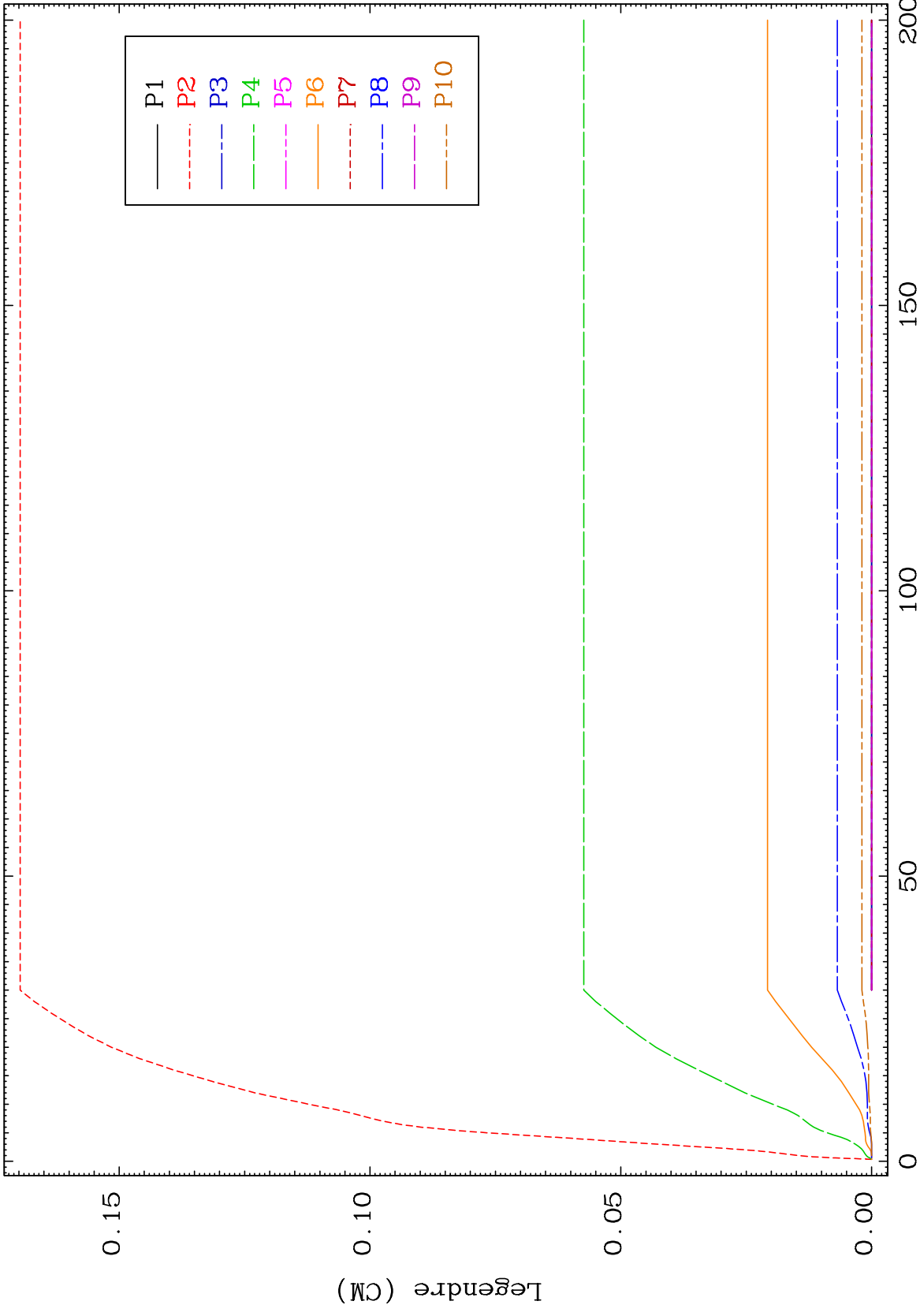
79-Au-177



MAT 7865

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

79-Au-177



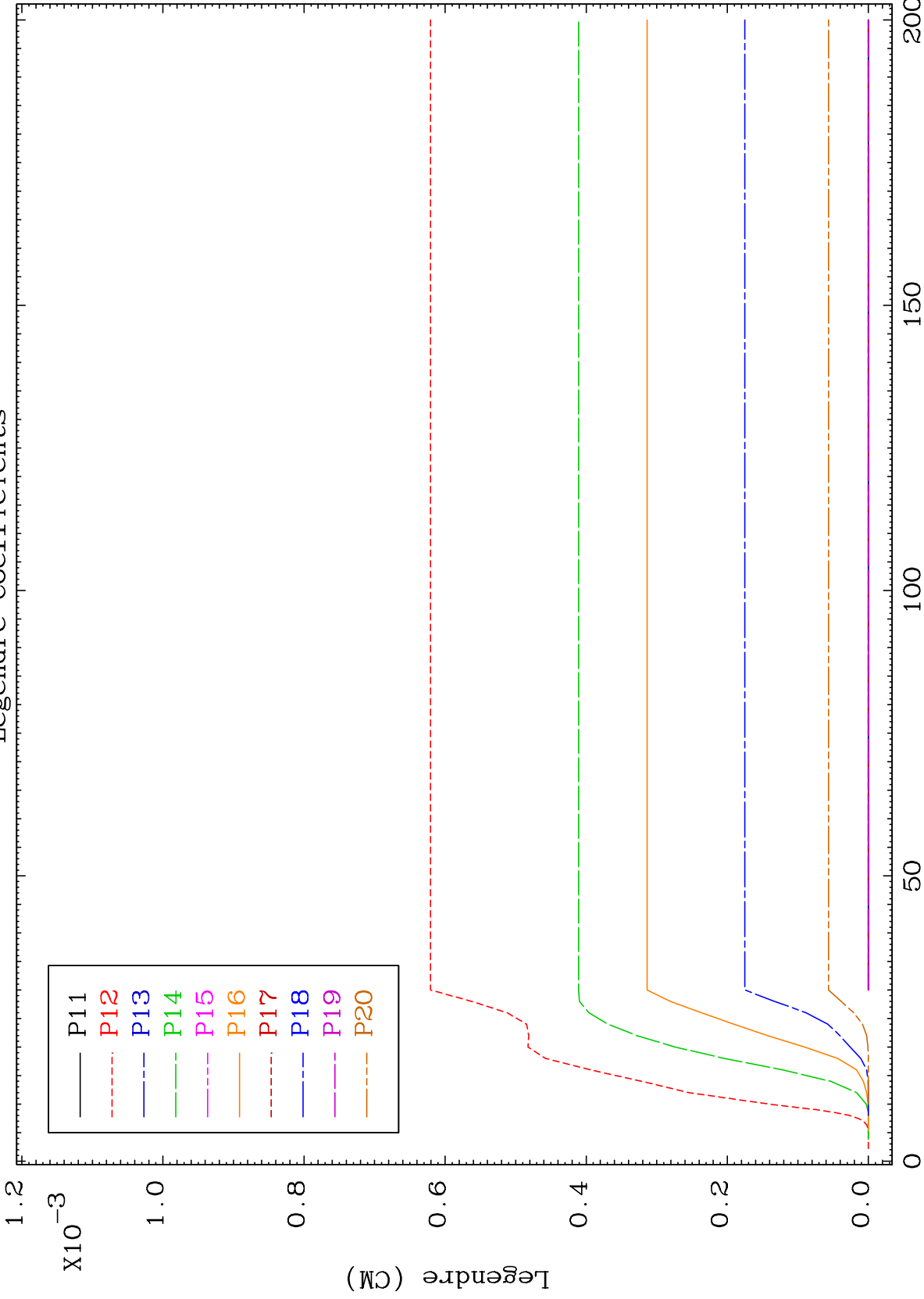
79-Au-177

Incident Energy (MeV)

MAT 7865

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

79-Au-177



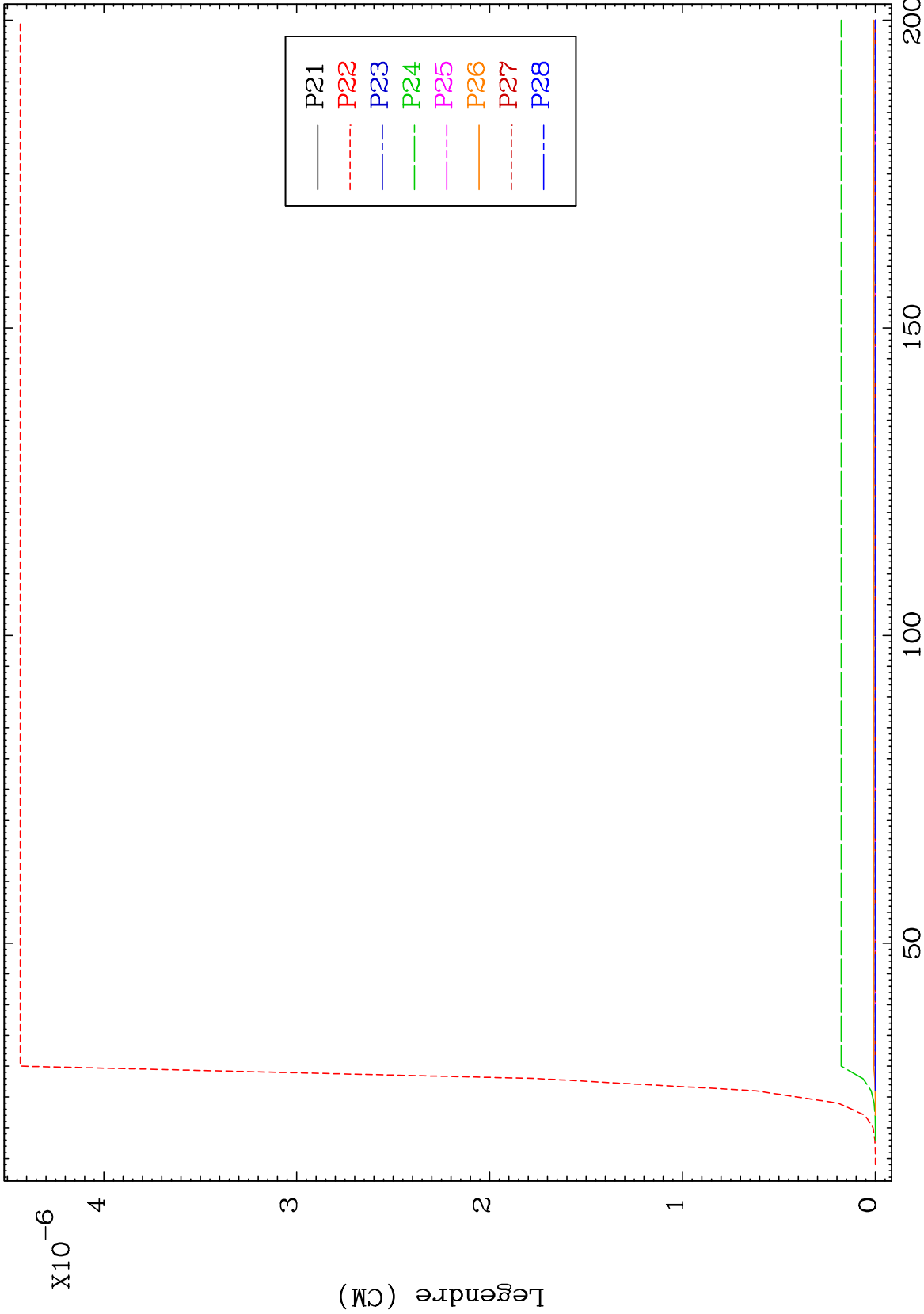
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79-Au-177

MAT 7865

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

79-Au-177



42

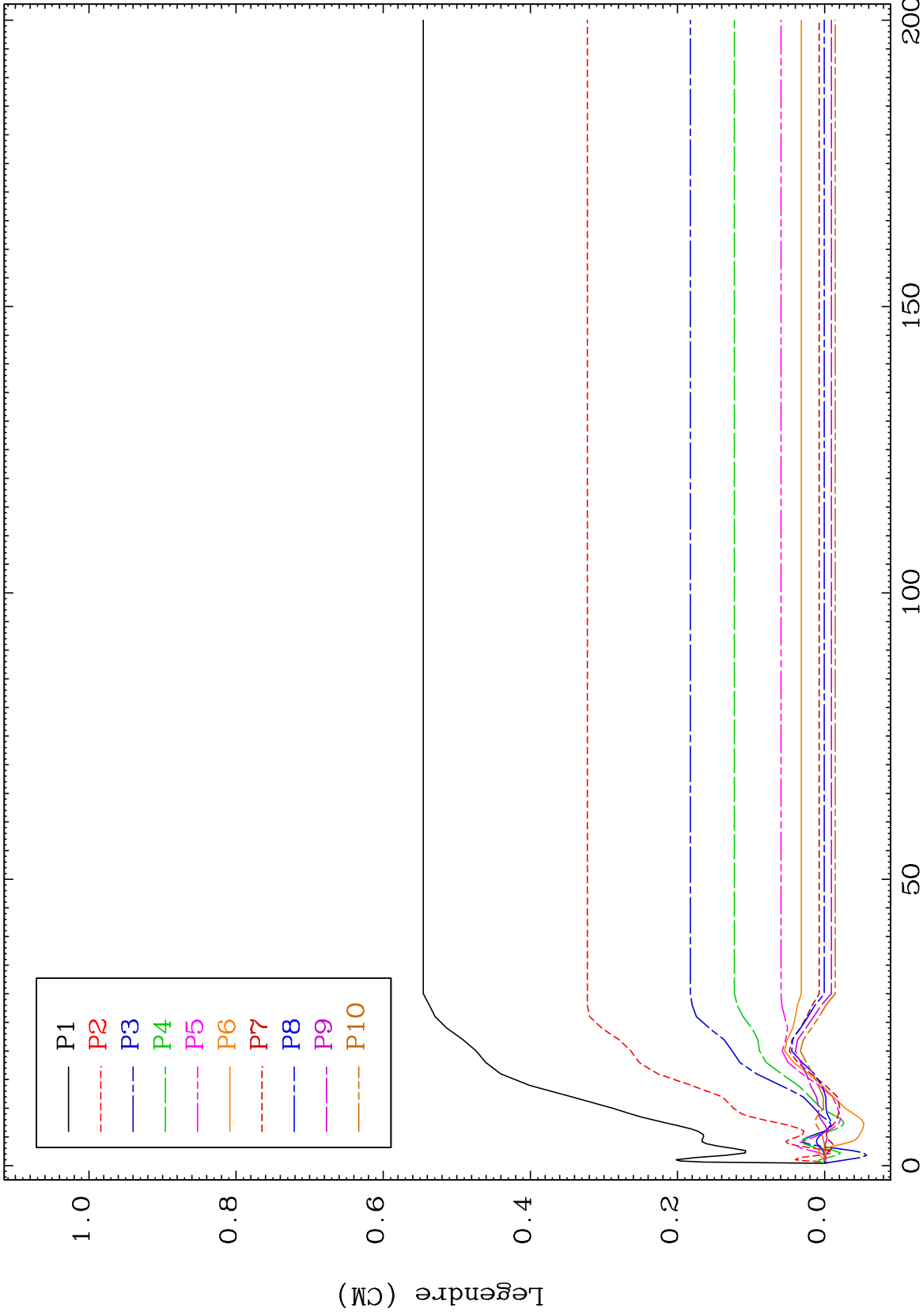
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



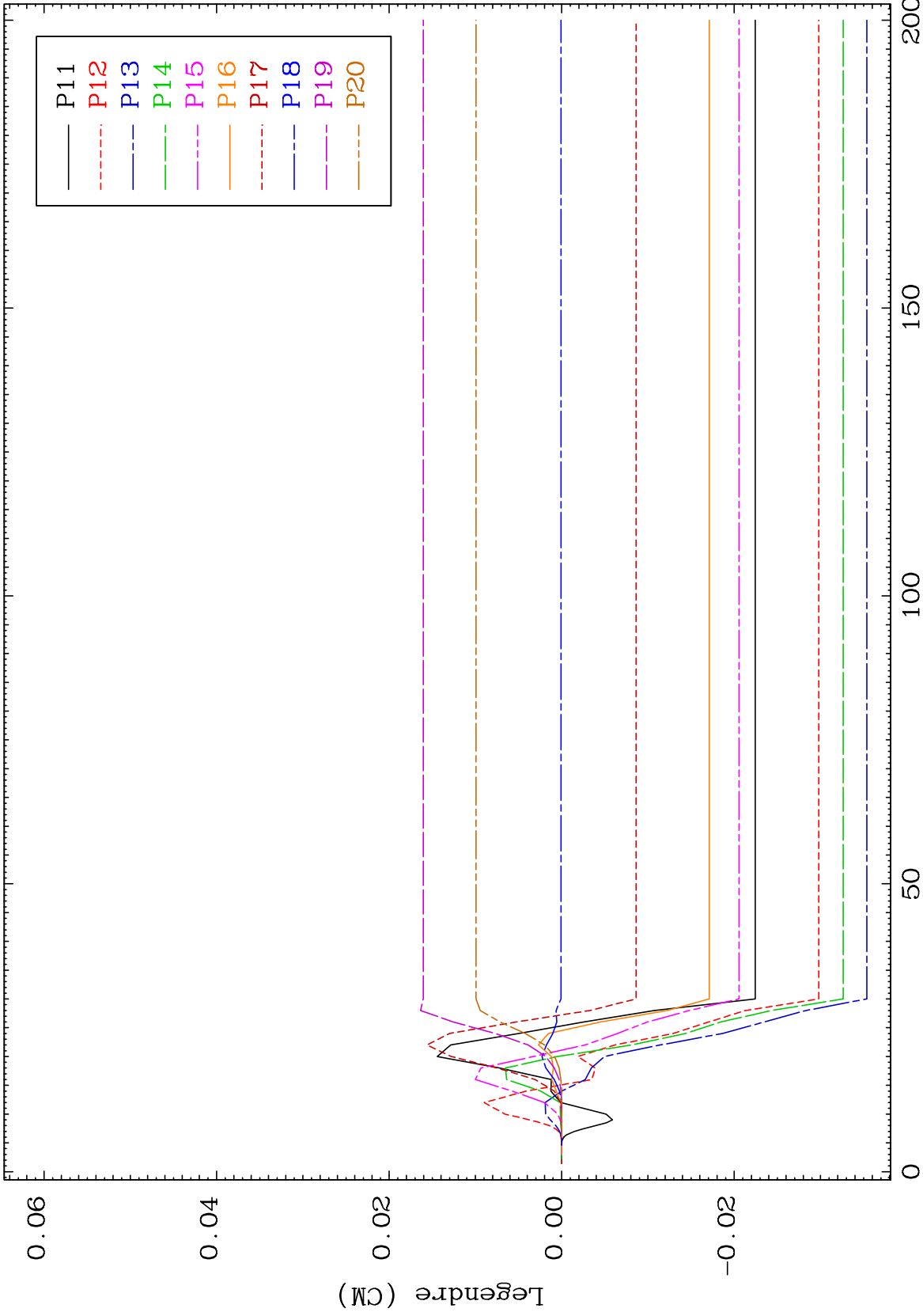
43

79-Au-177

MAT 7865

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

79-Au-177



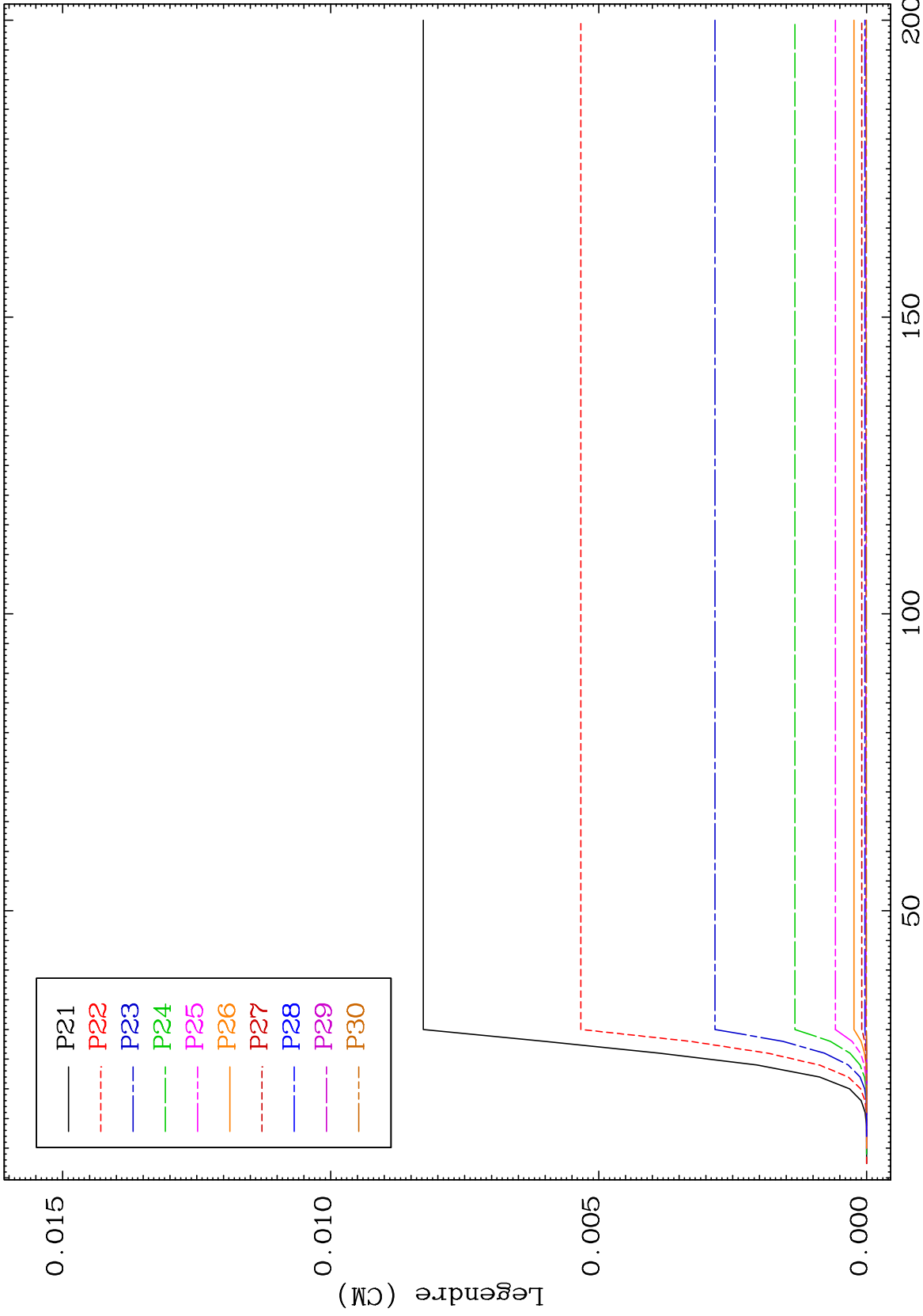
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79-Au-177

MAT 7865

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

79-Au-177



45

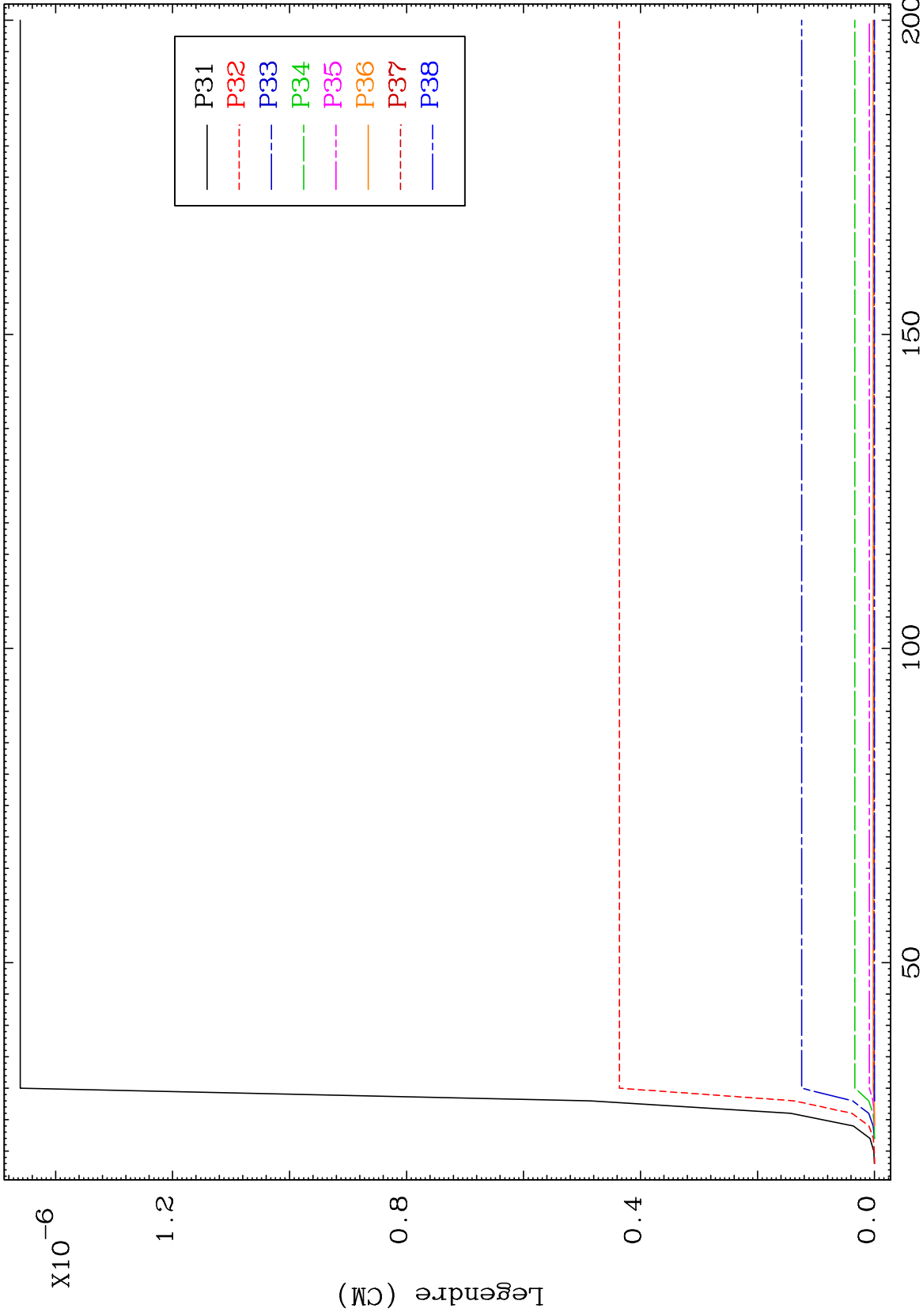
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177

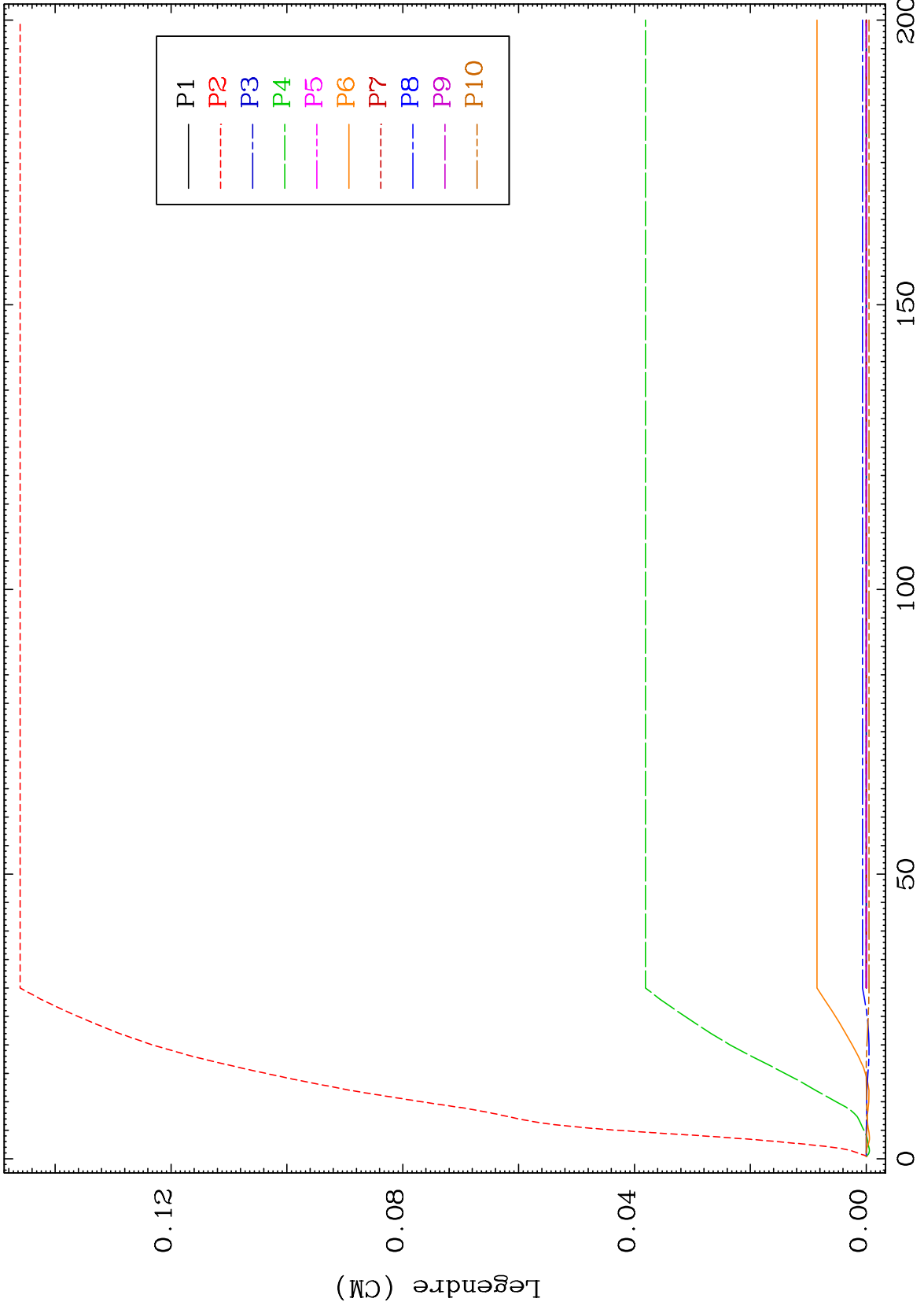


46

Incident Energy (MeV)

79-Au-177

MAT 7865 MT= 58 (n,n') Level Legendre Coefficients 79-Au-177



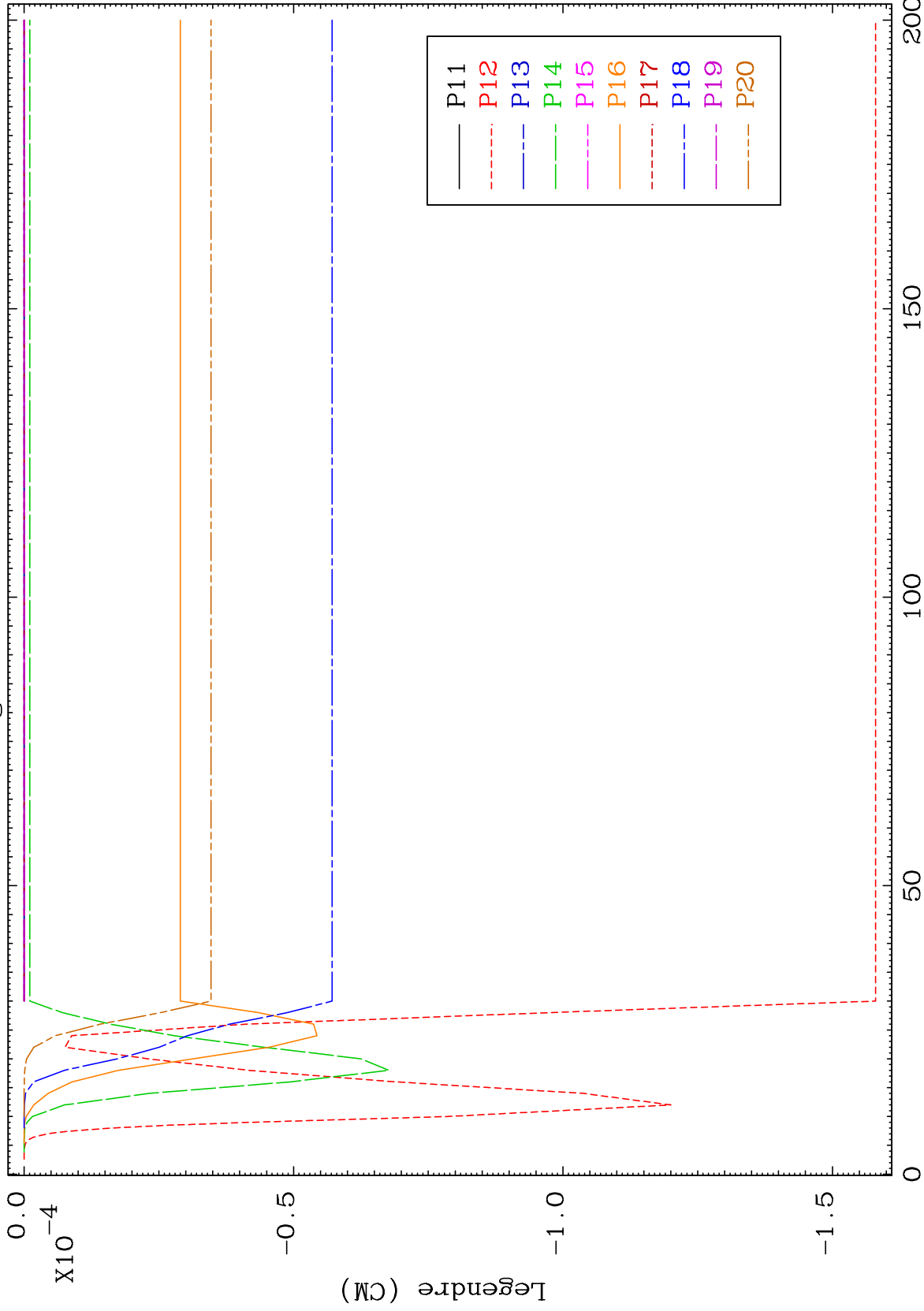
47 79-Au-177



MAT 7865

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

79-Au-177



48

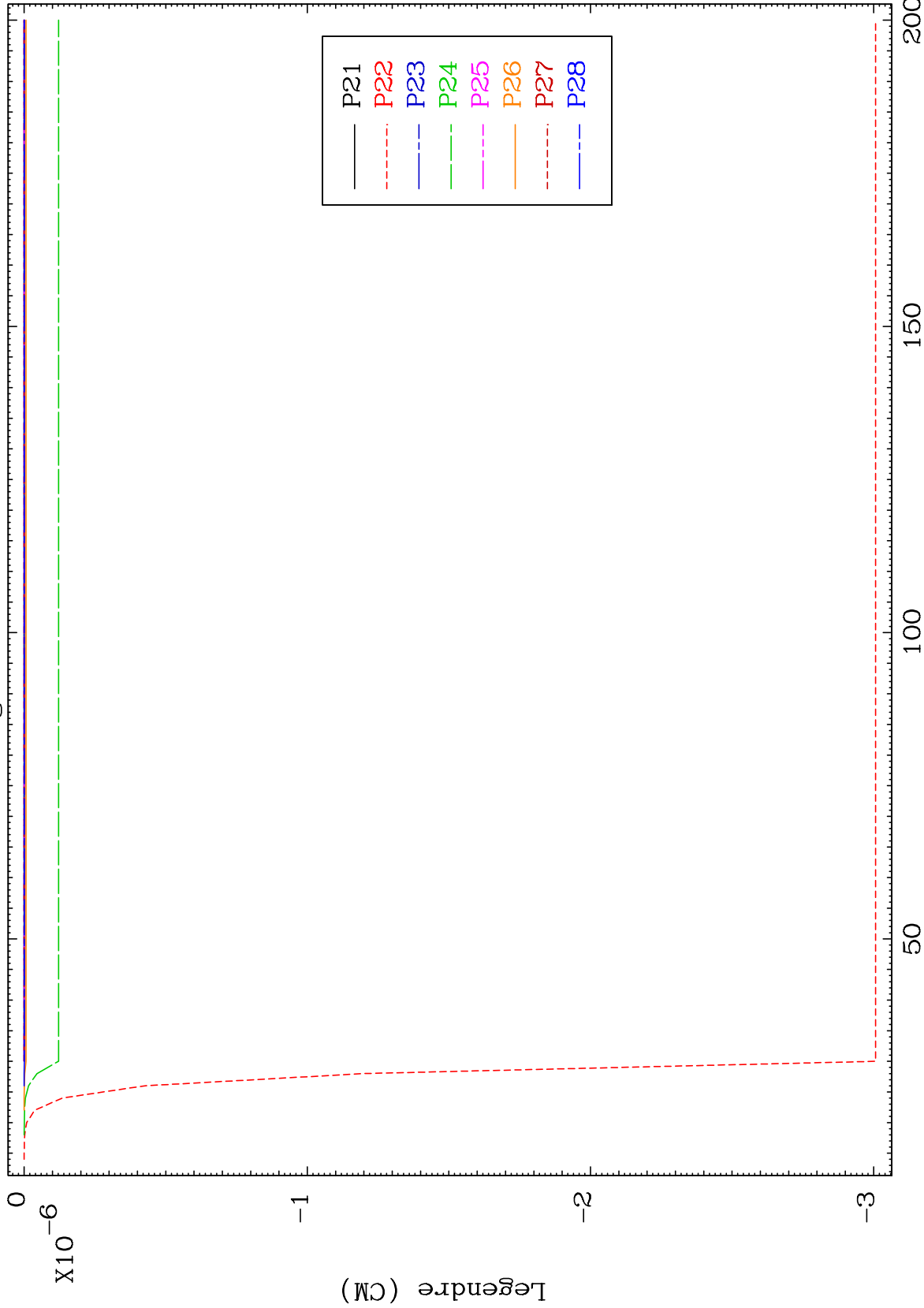
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



49

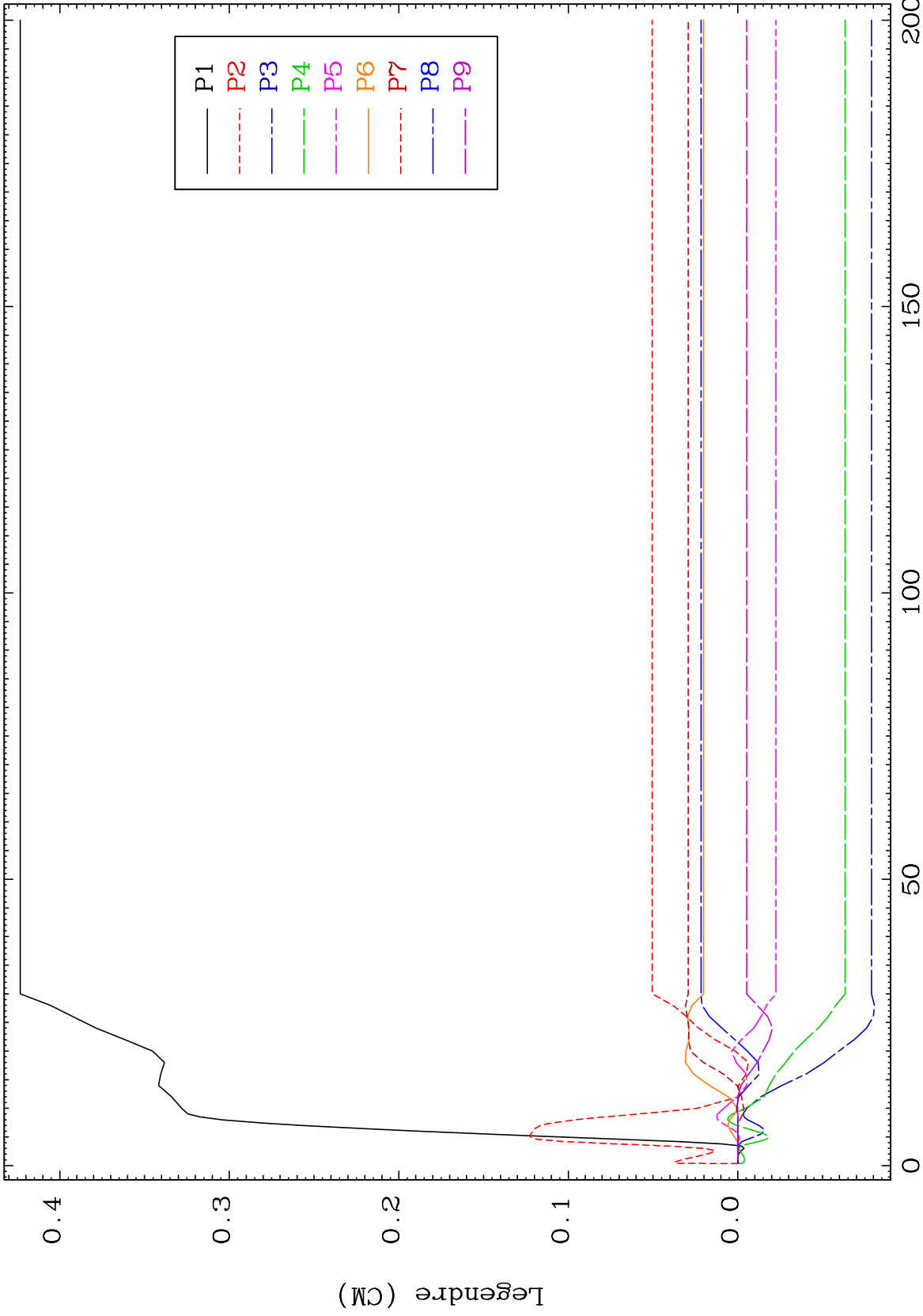
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



79-Au-177

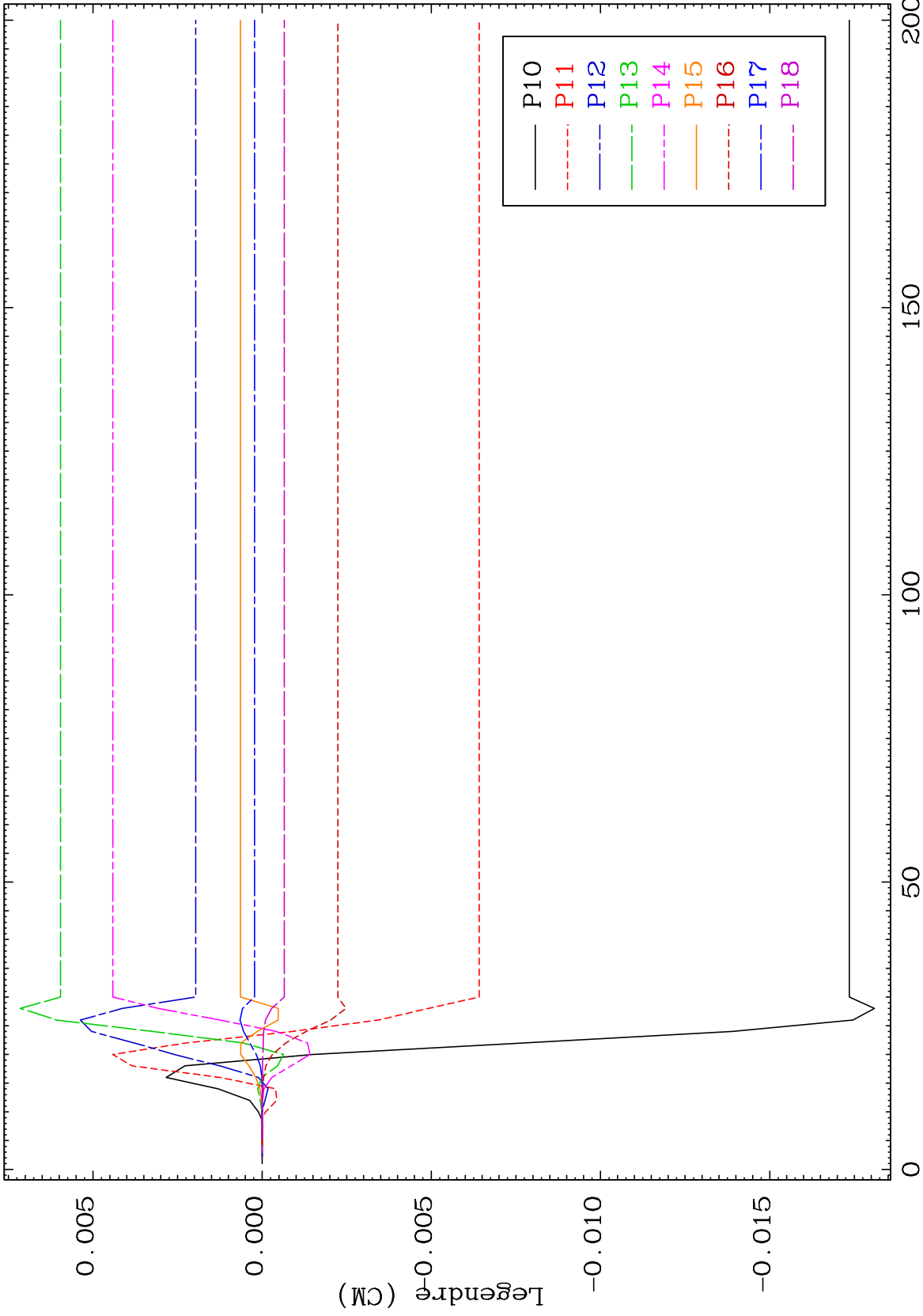
Incident Energy (MeV)

50

MAT 7865

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

79-Au-177



51

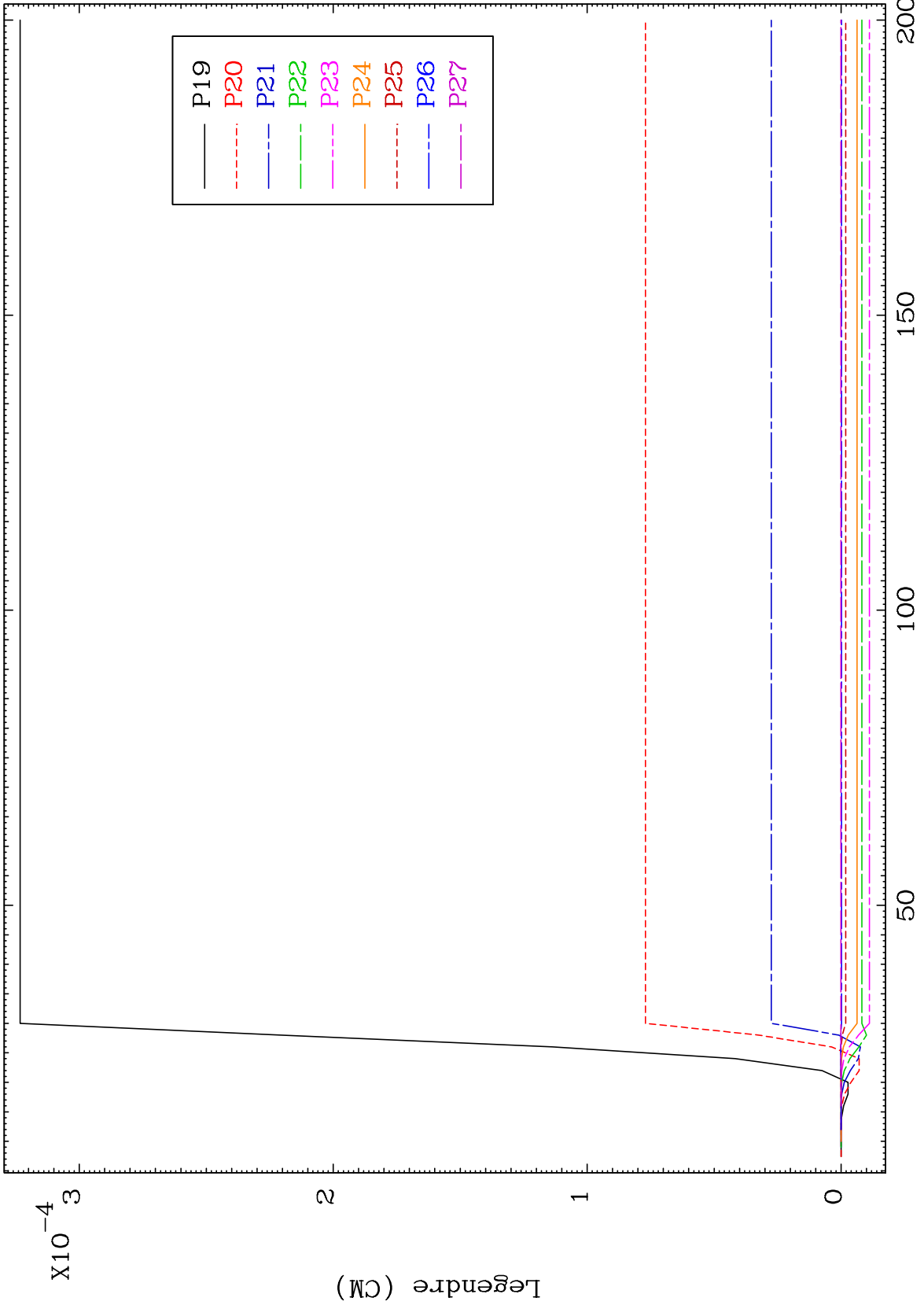
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



52

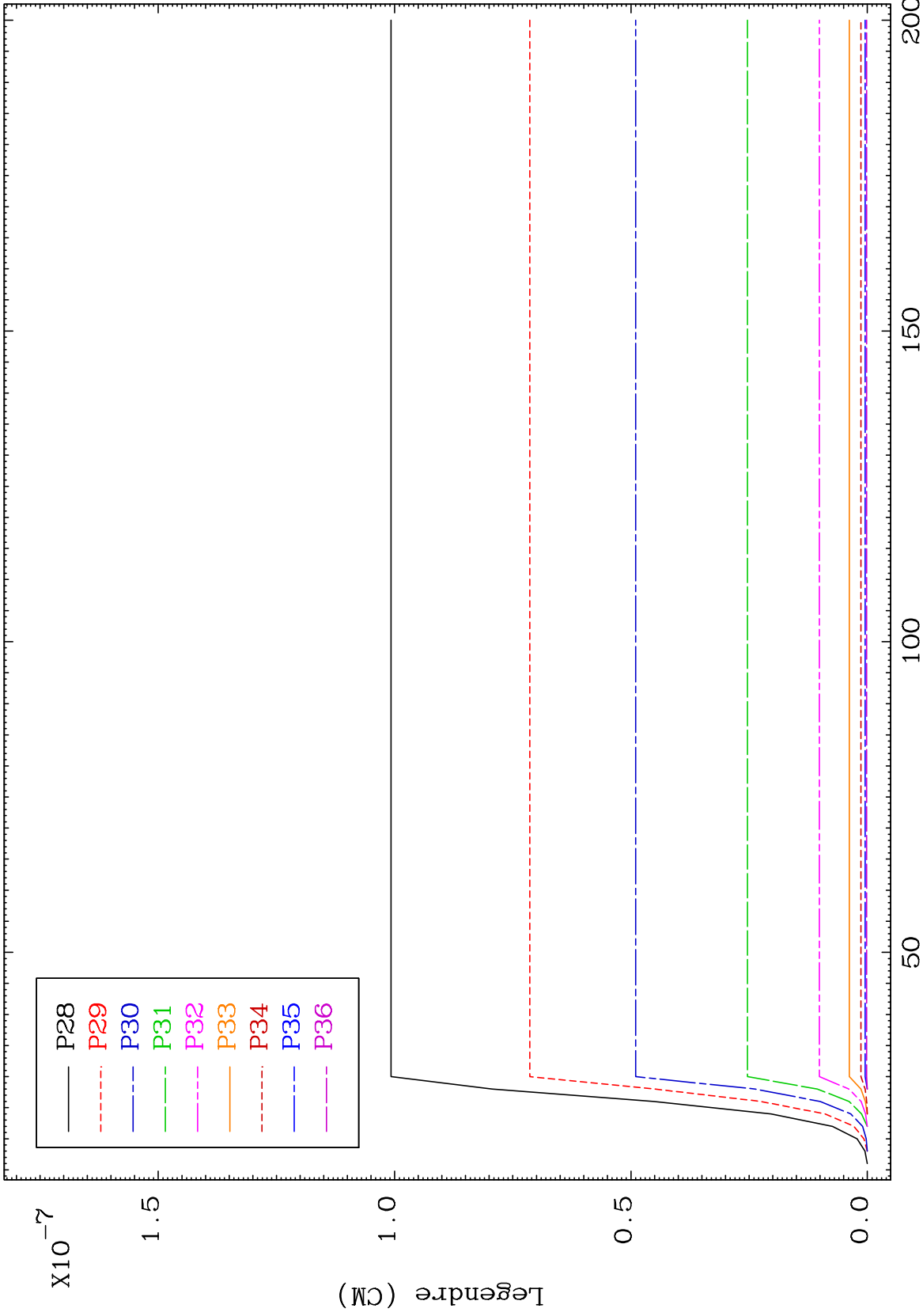
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



53

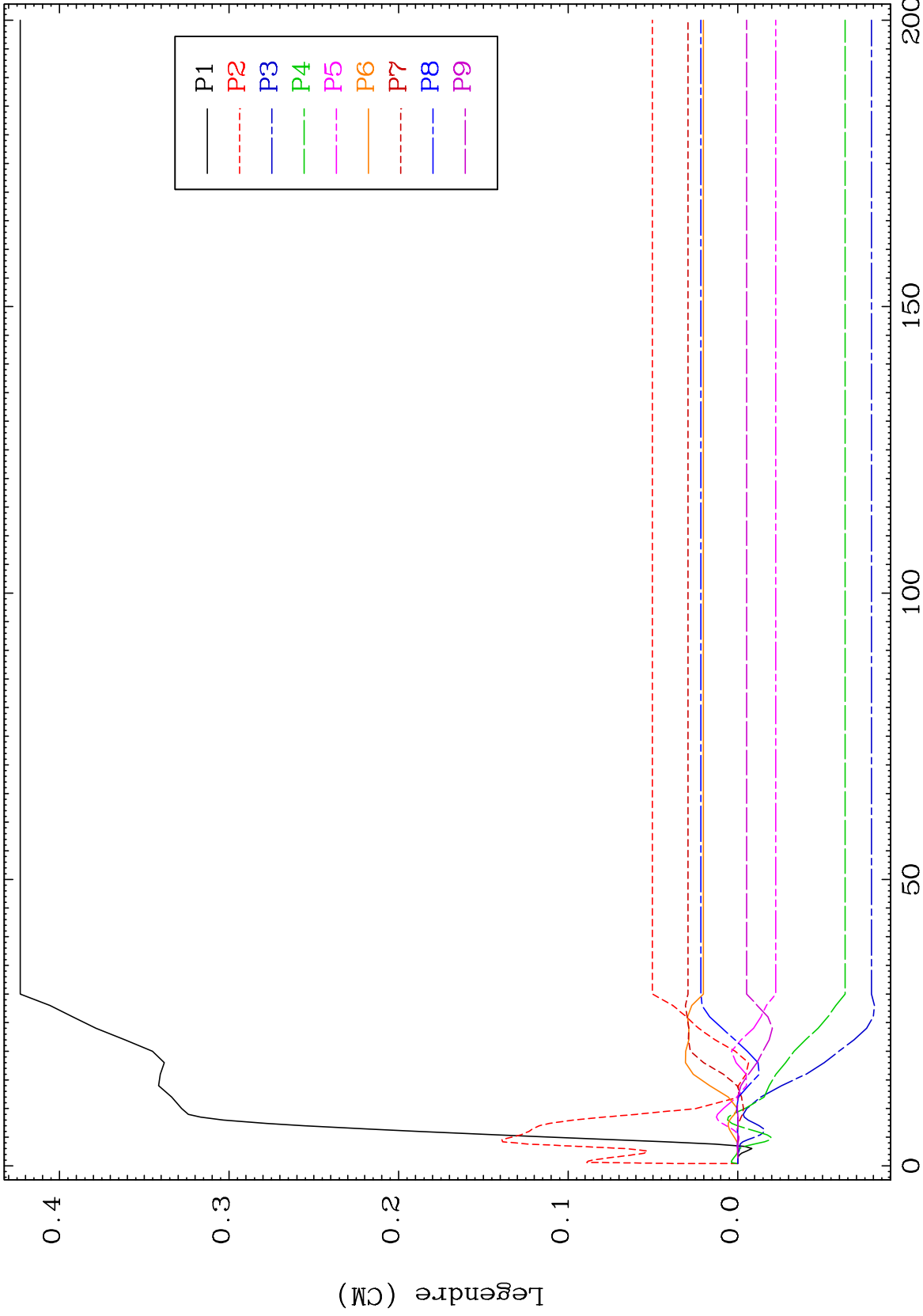
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



54

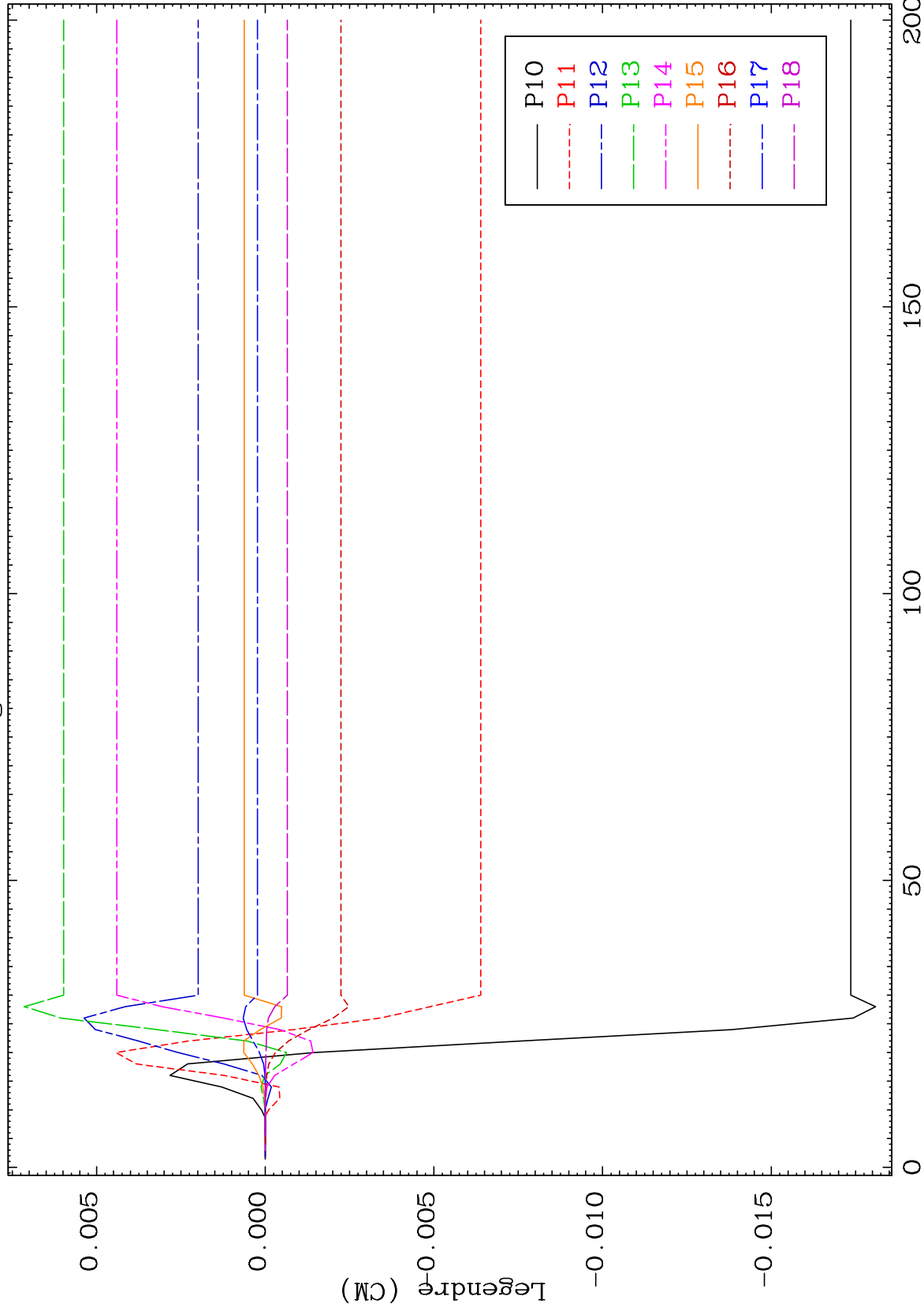
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



55

Incident Energy (MeV)

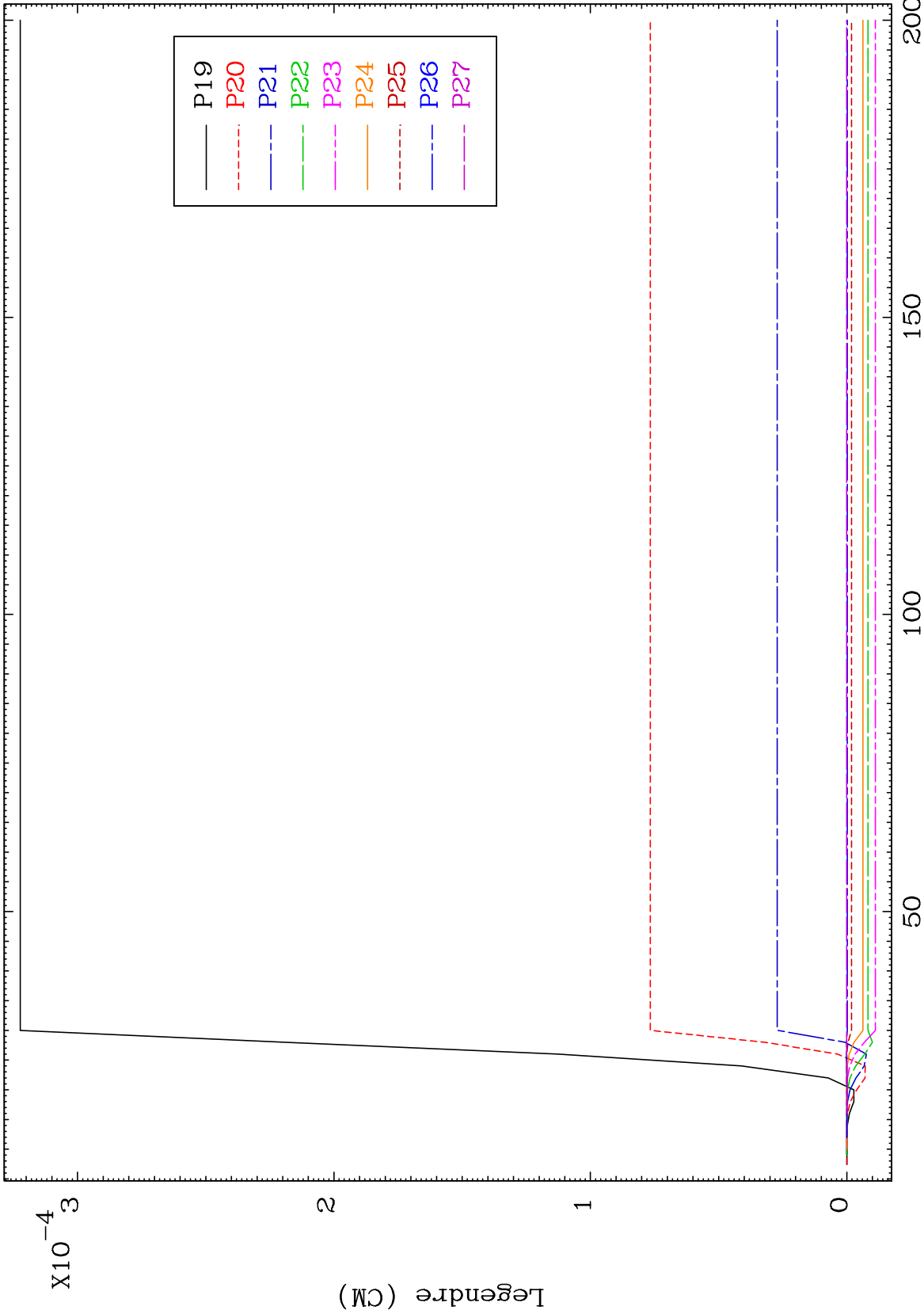
79-Au-177



MAT 7865

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

79-Au-177



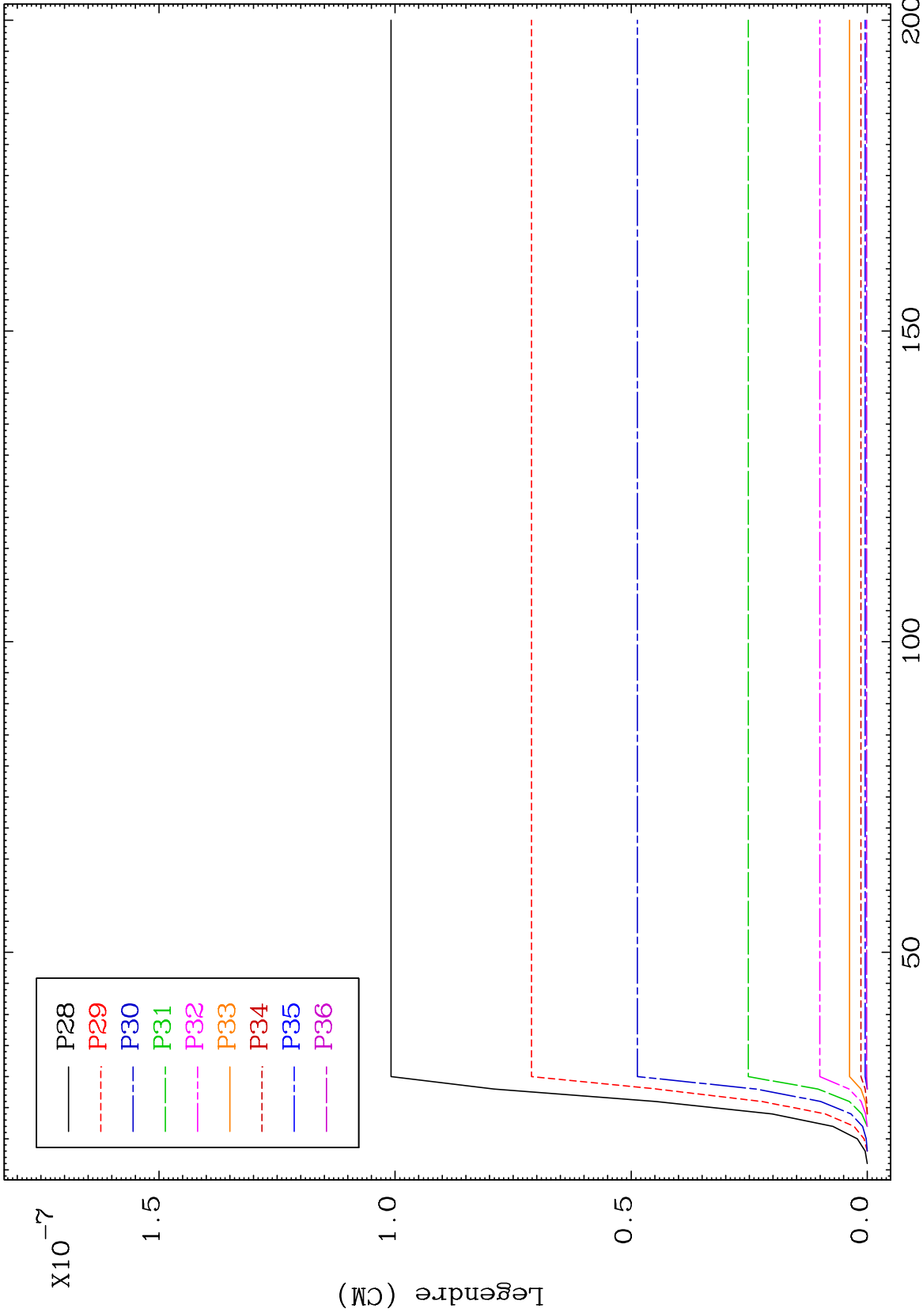
56

79-Au-177

MAT 7865

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

79-Au-177



57

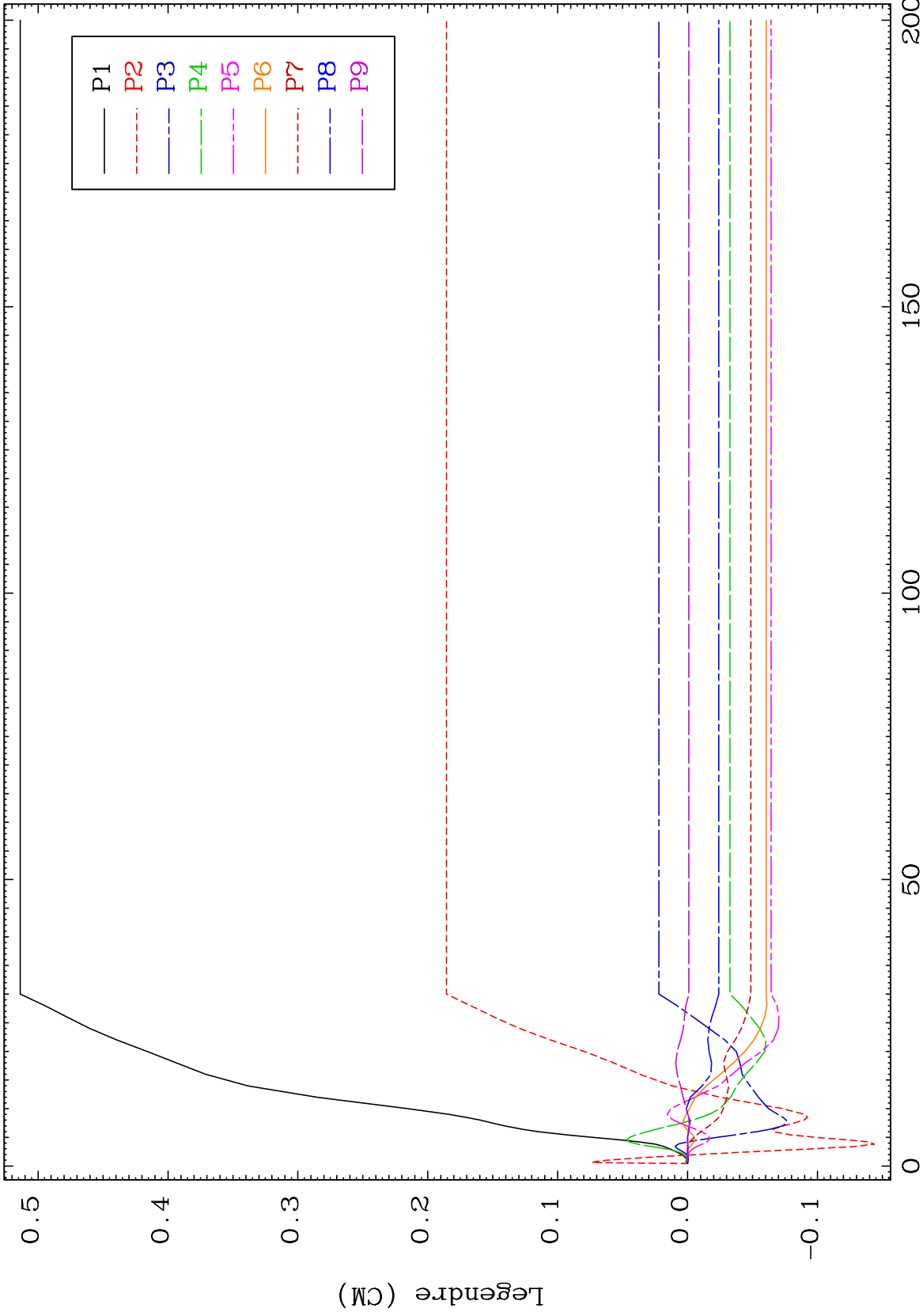
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



58

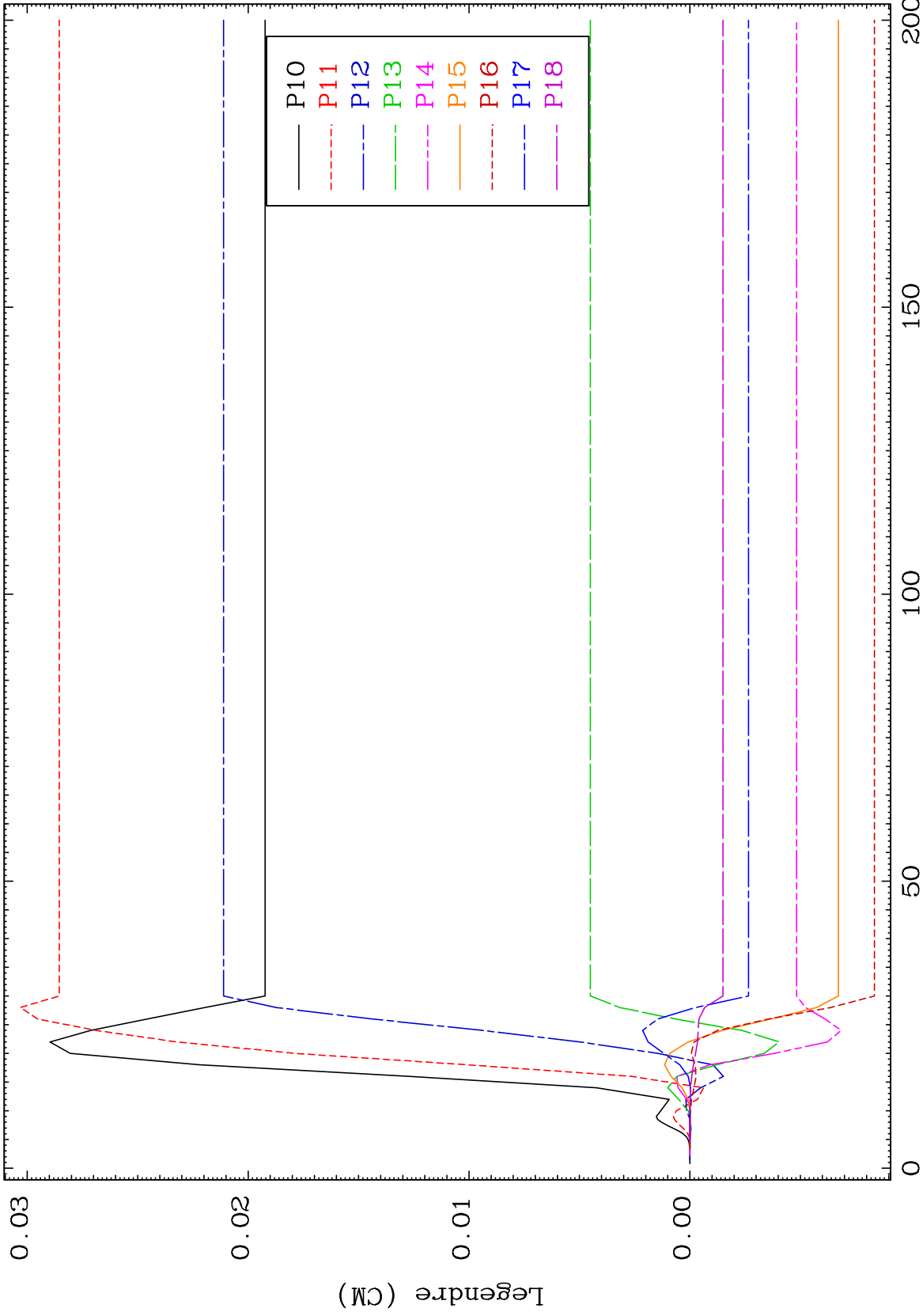
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



59

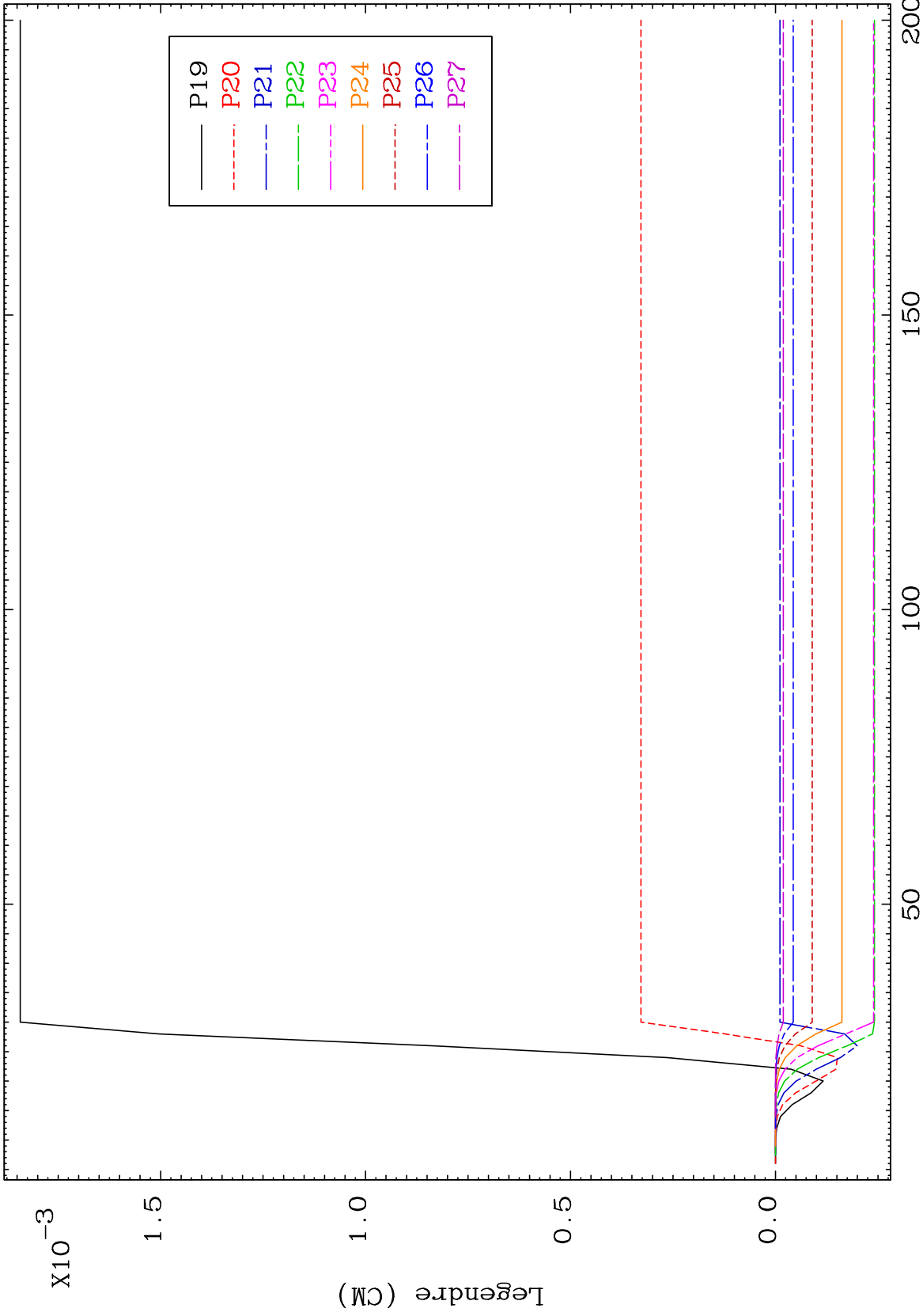
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



60

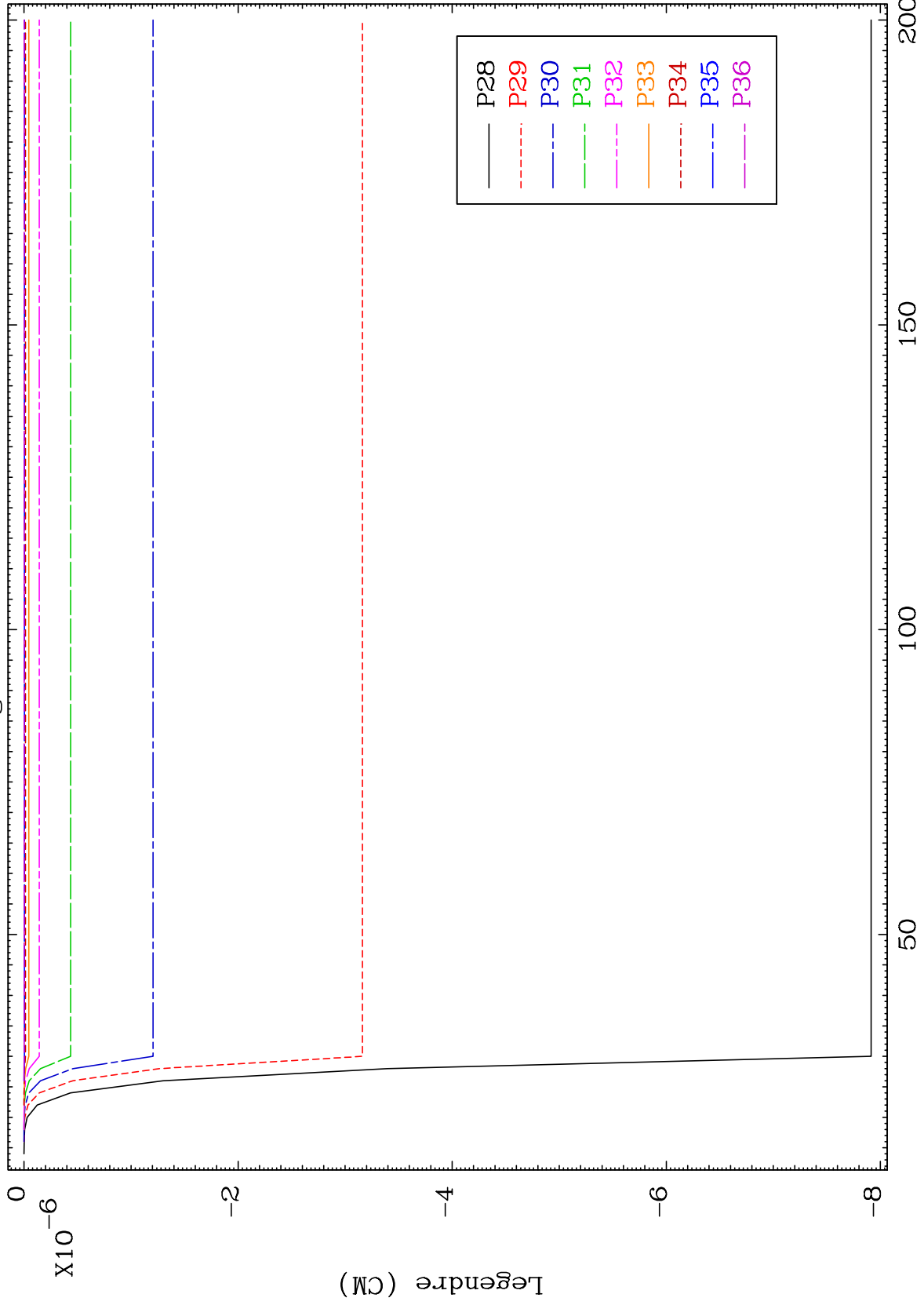
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



79-Au-177

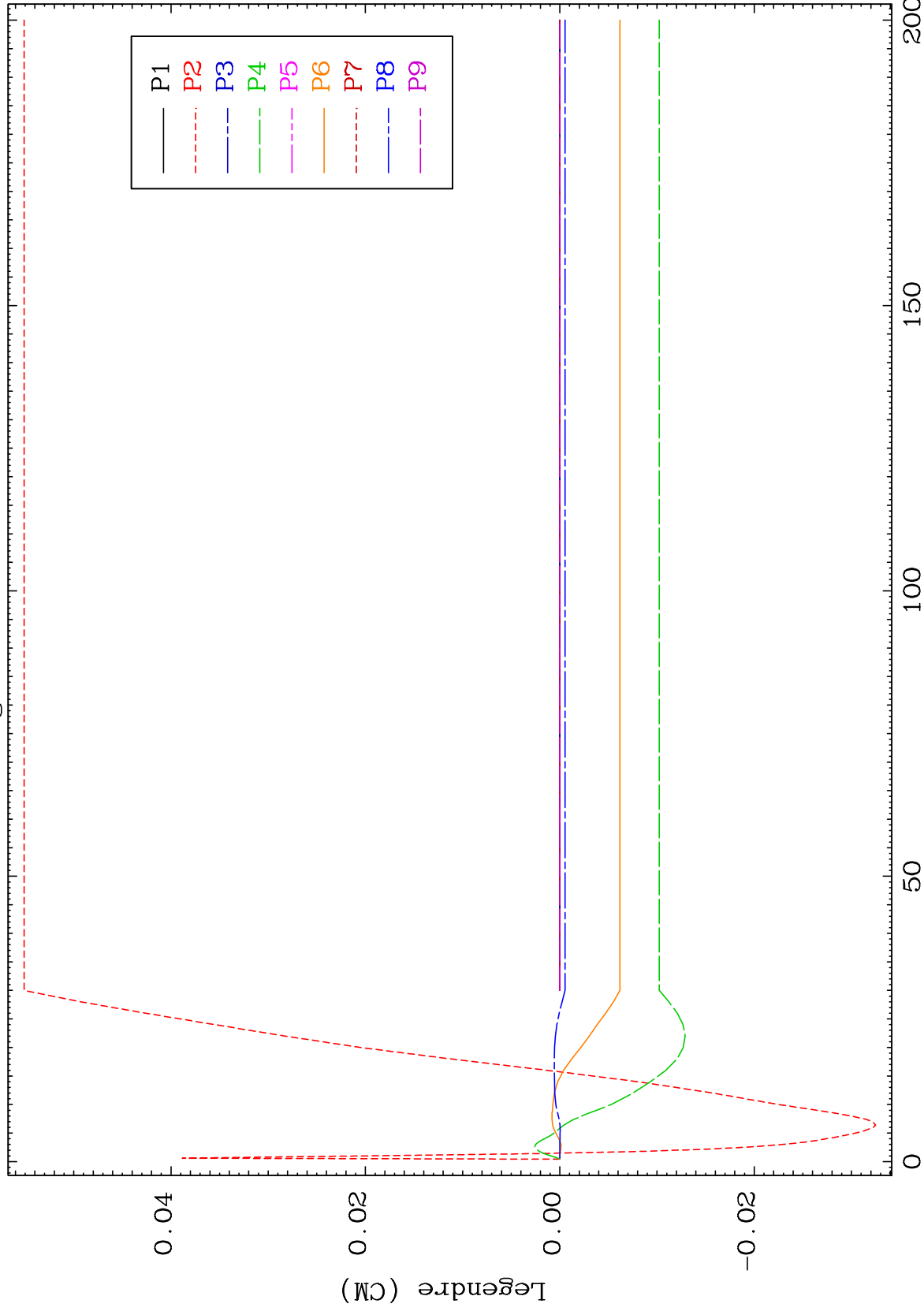
Incident Energy (MeV)

61

MAT 7865

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

79-Au-177



62

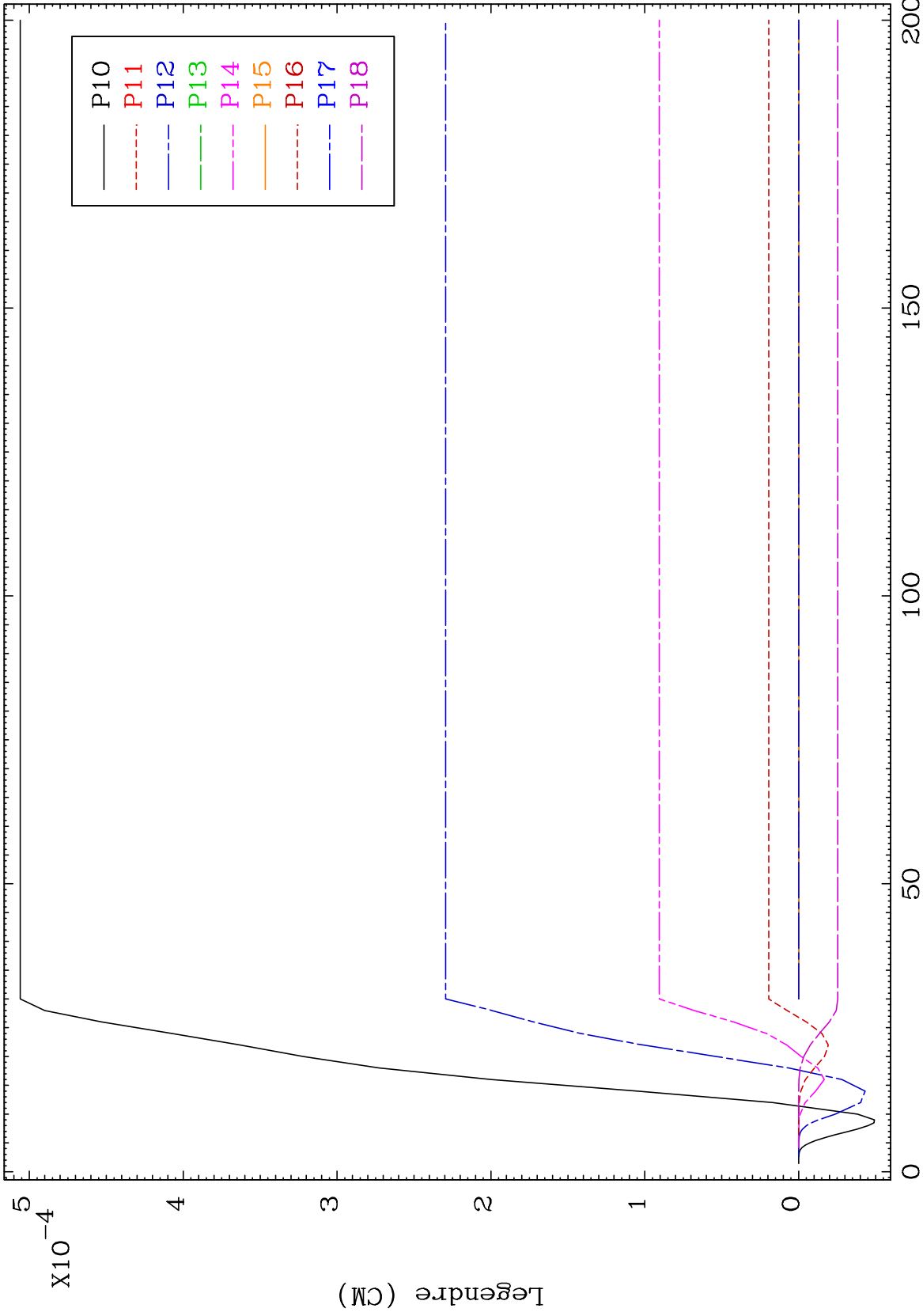
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



63

Incident Energy (MeV)

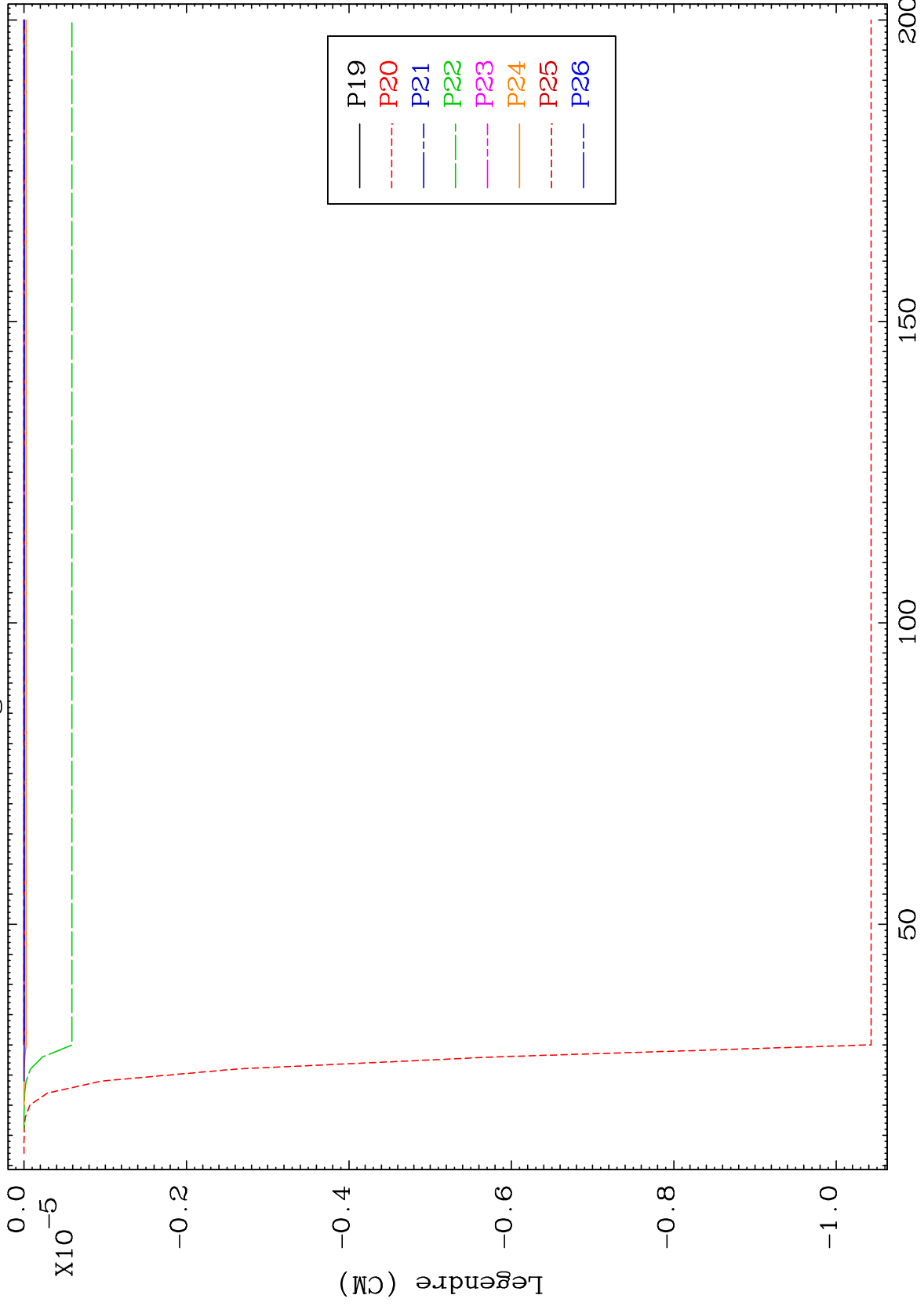
79-Au-177



MAT 7865

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

79-Au-177



79-Au-177

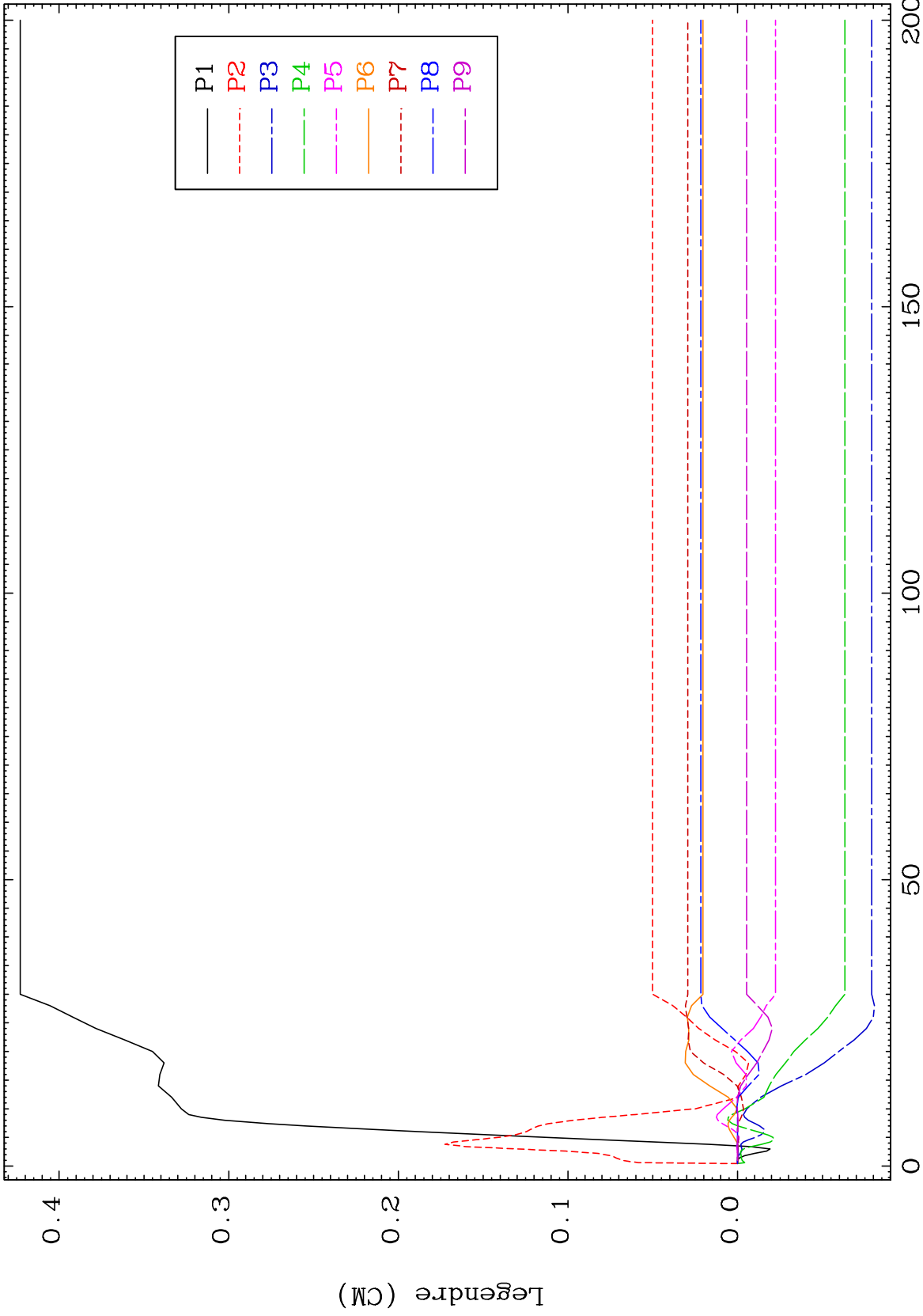
Incident Energy (MeV)

64

MAT 7865

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

79-Au-177



65

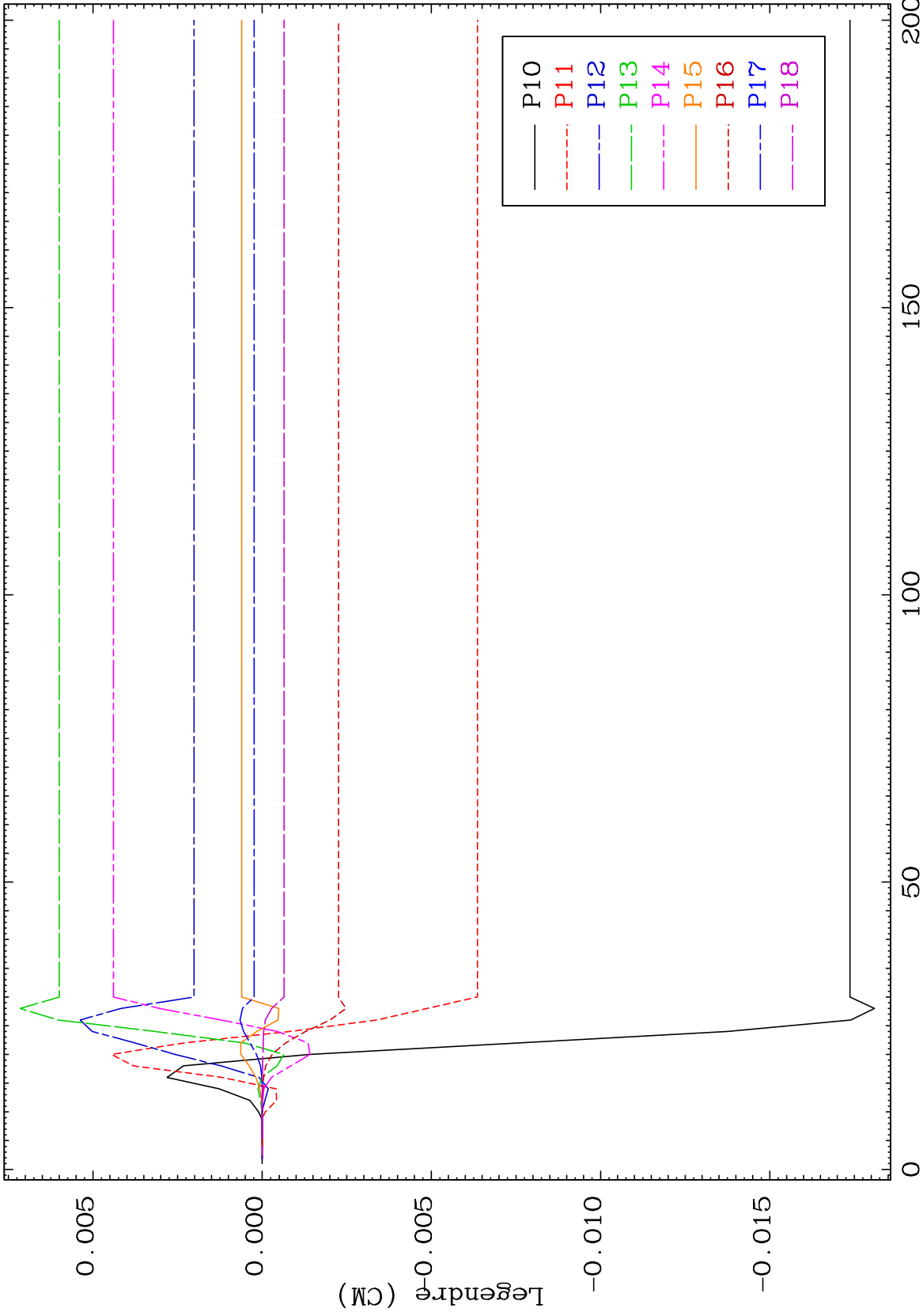
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



66

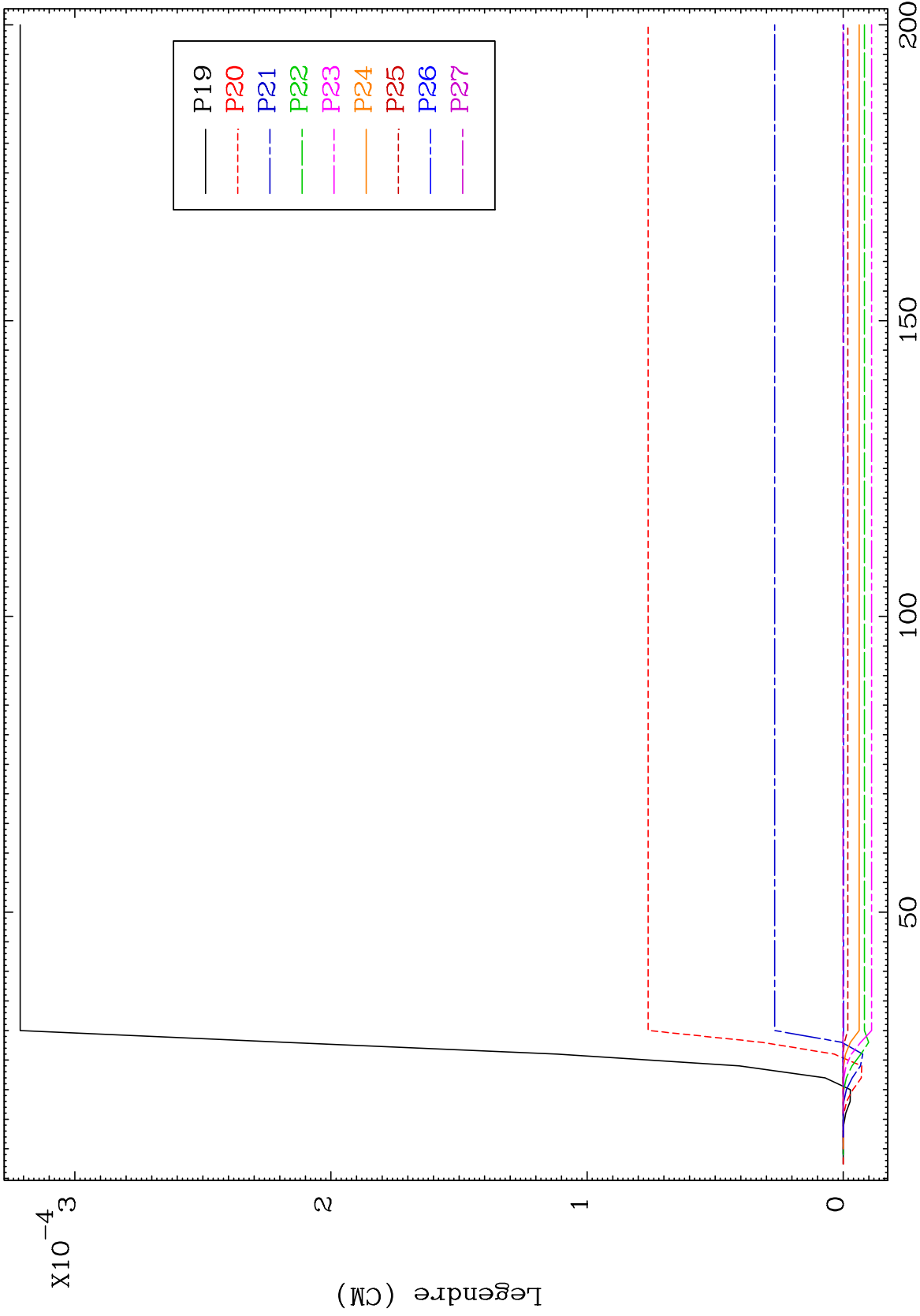
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



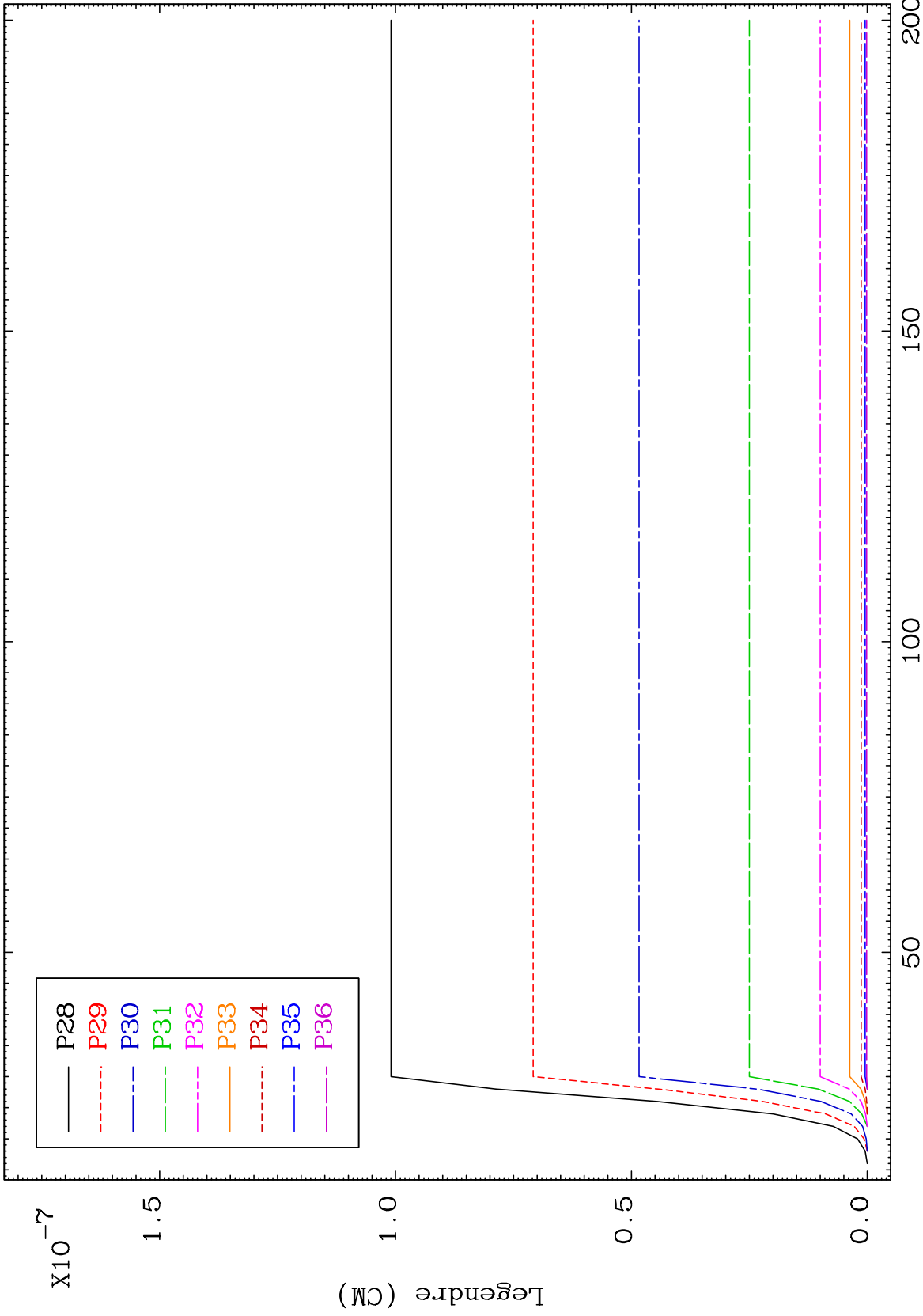
67

79-Au-177

MAT 7865

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

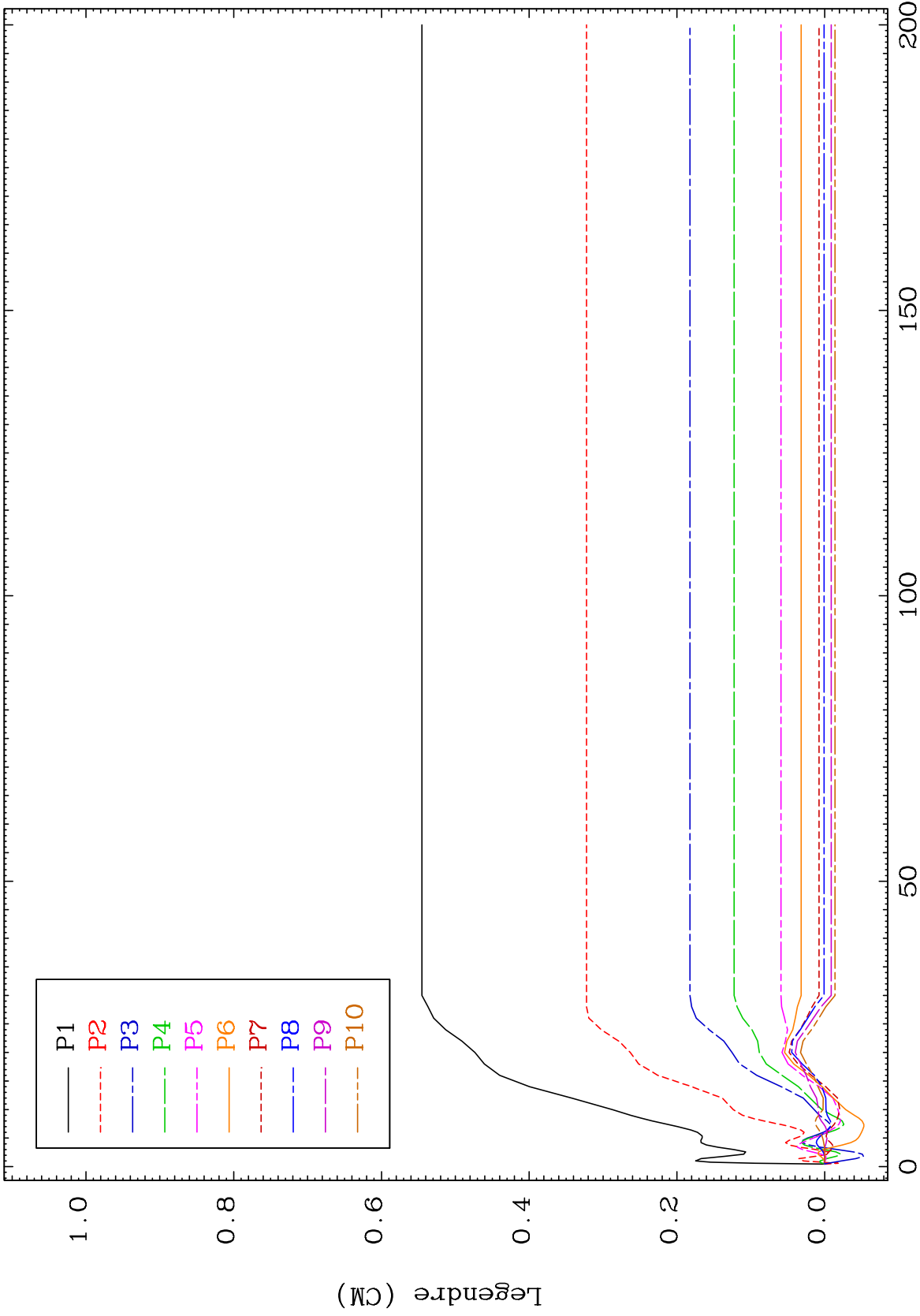
79-Au-177



MAT 7865

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

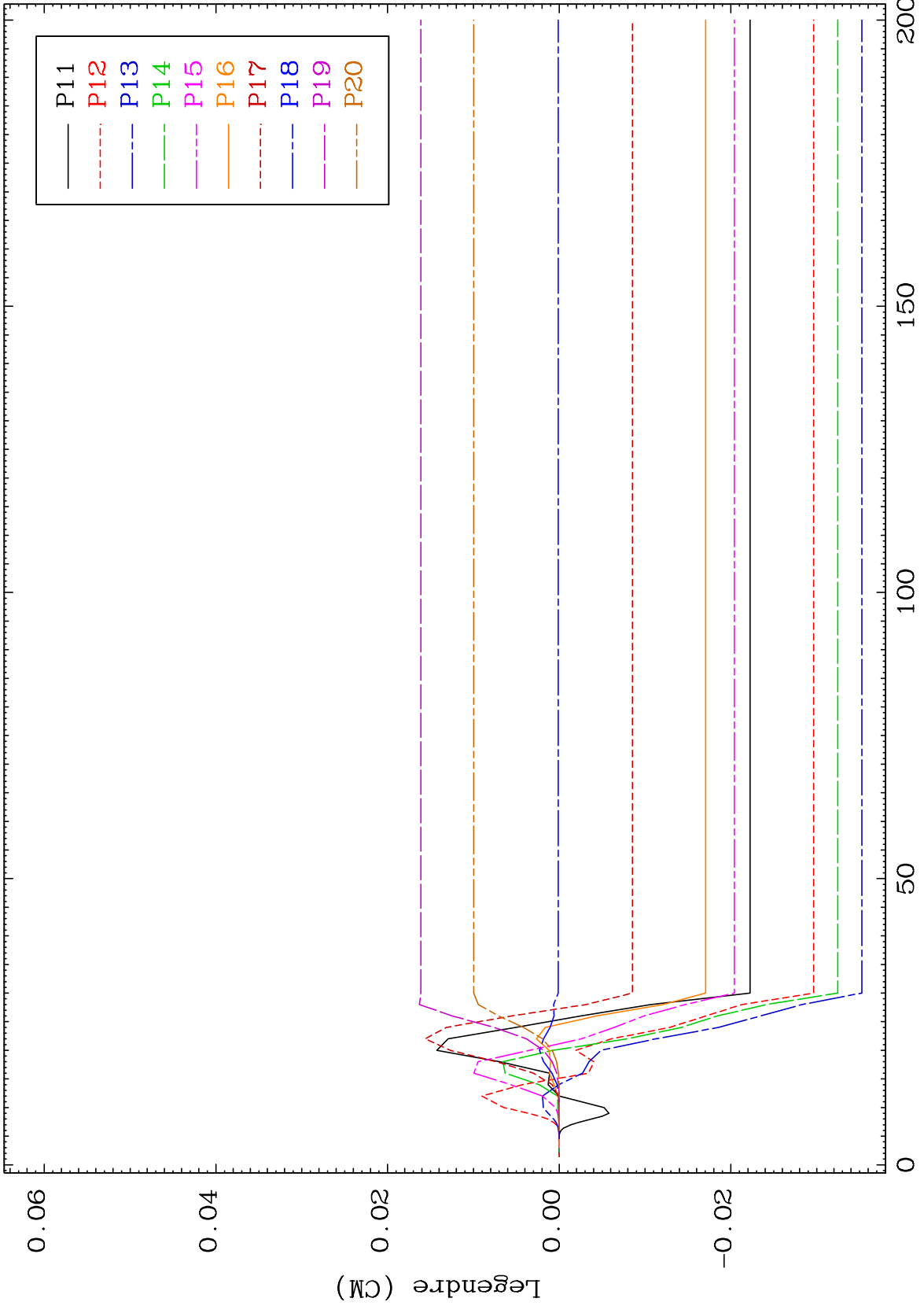
79-Au-177



MAT 7865

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

79-Au-177



70

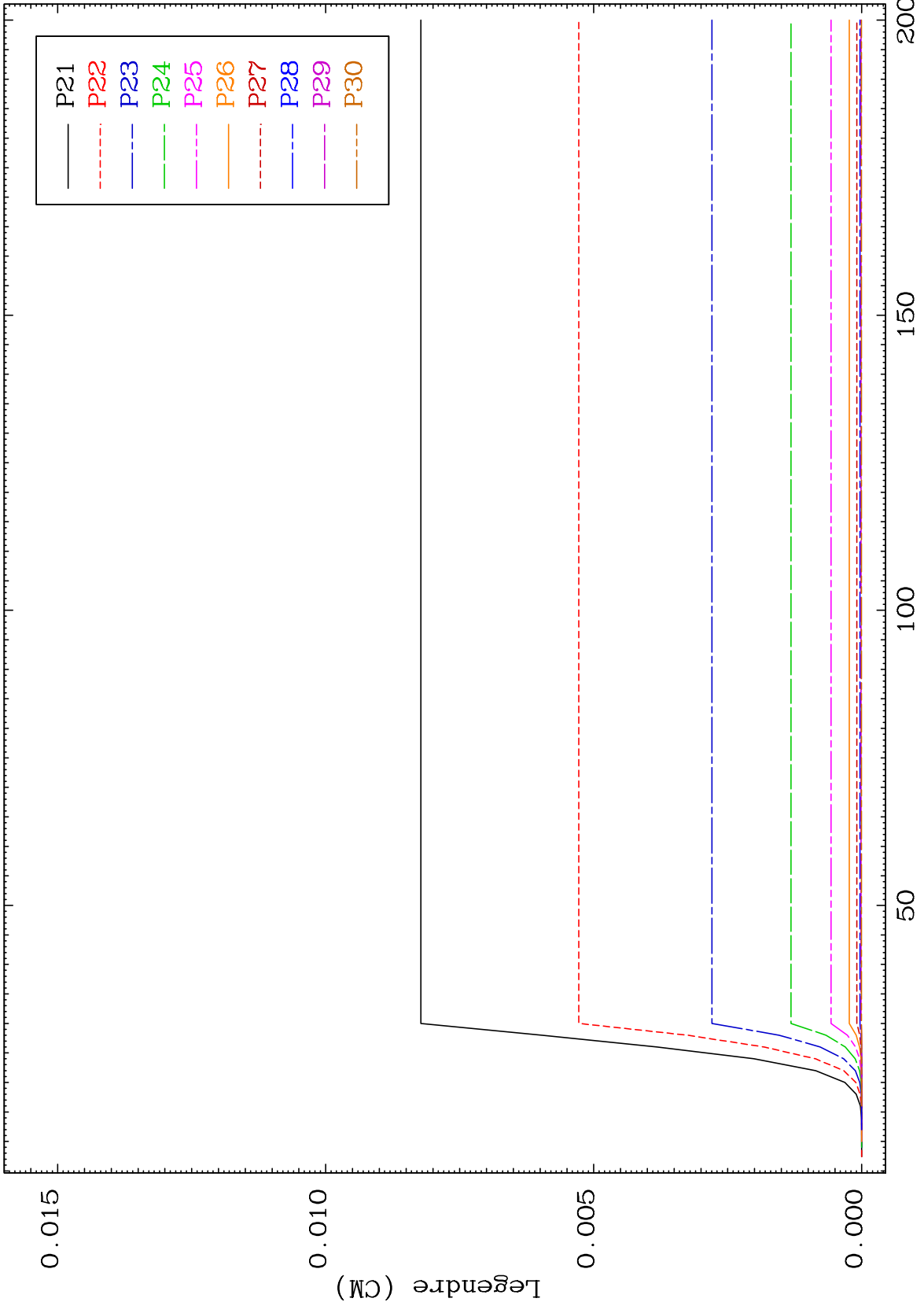
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



71

Incident Energy (MeV)

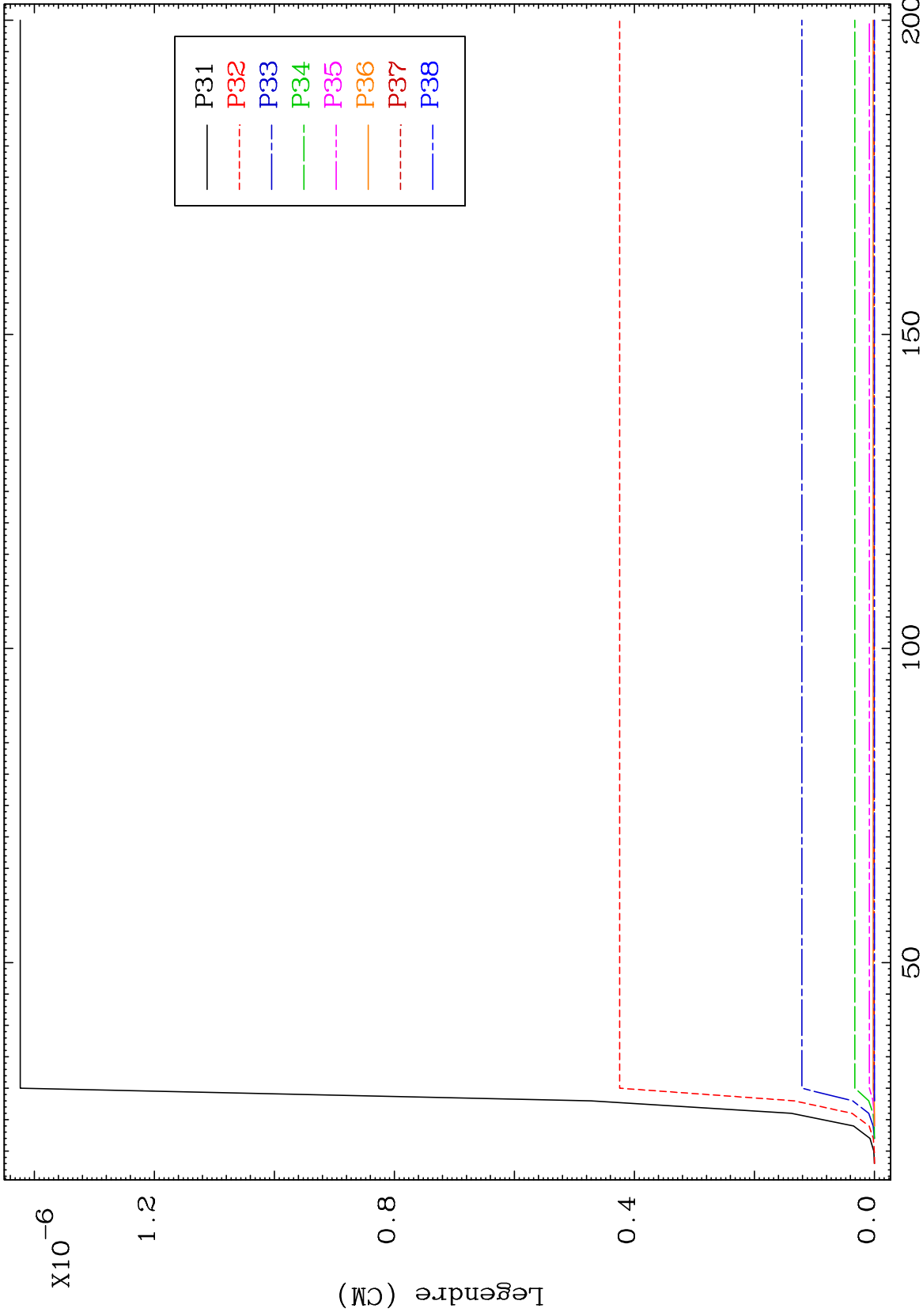
79-Au-177



MAT 7865

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

79-Au-177



72

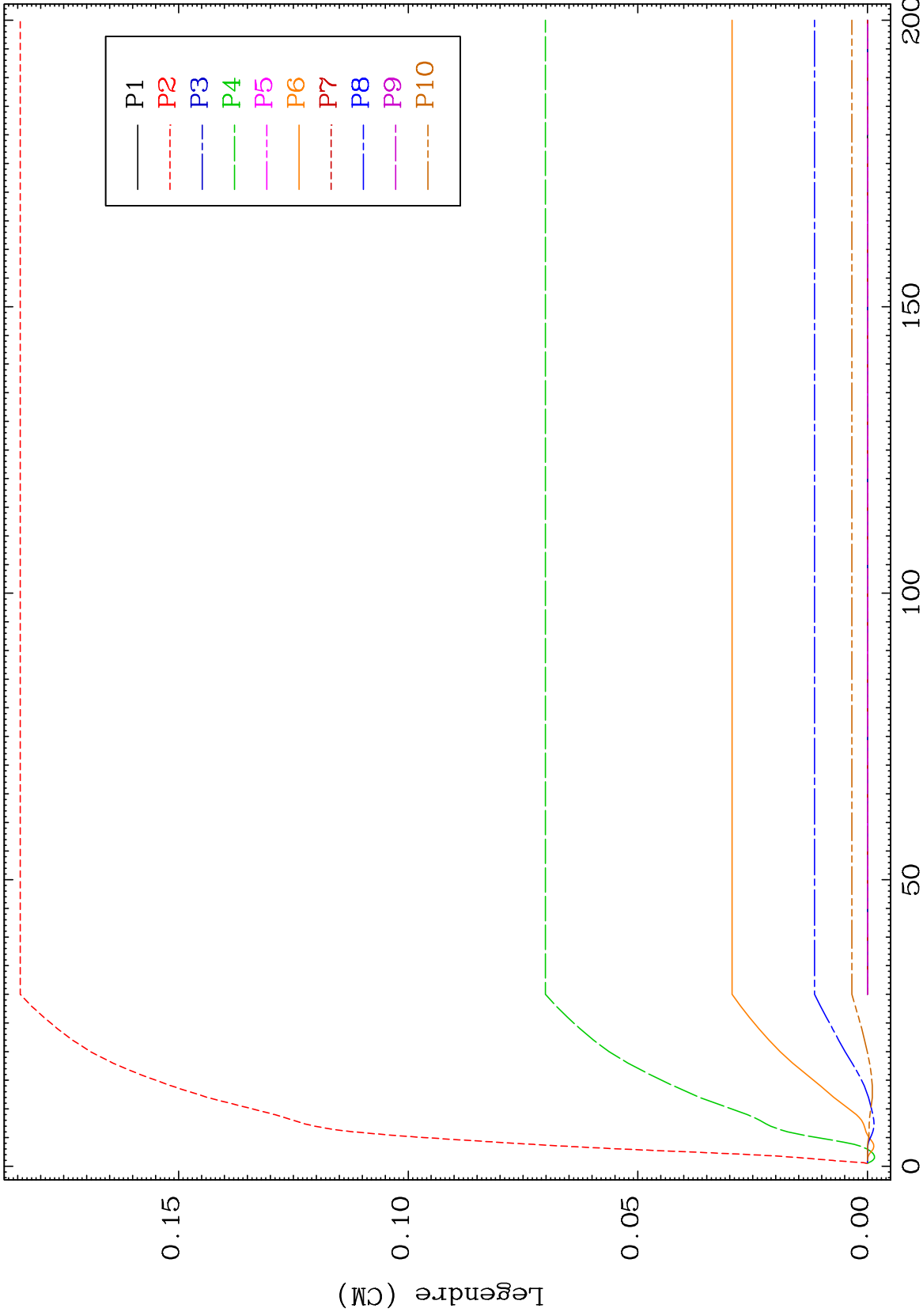
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



73

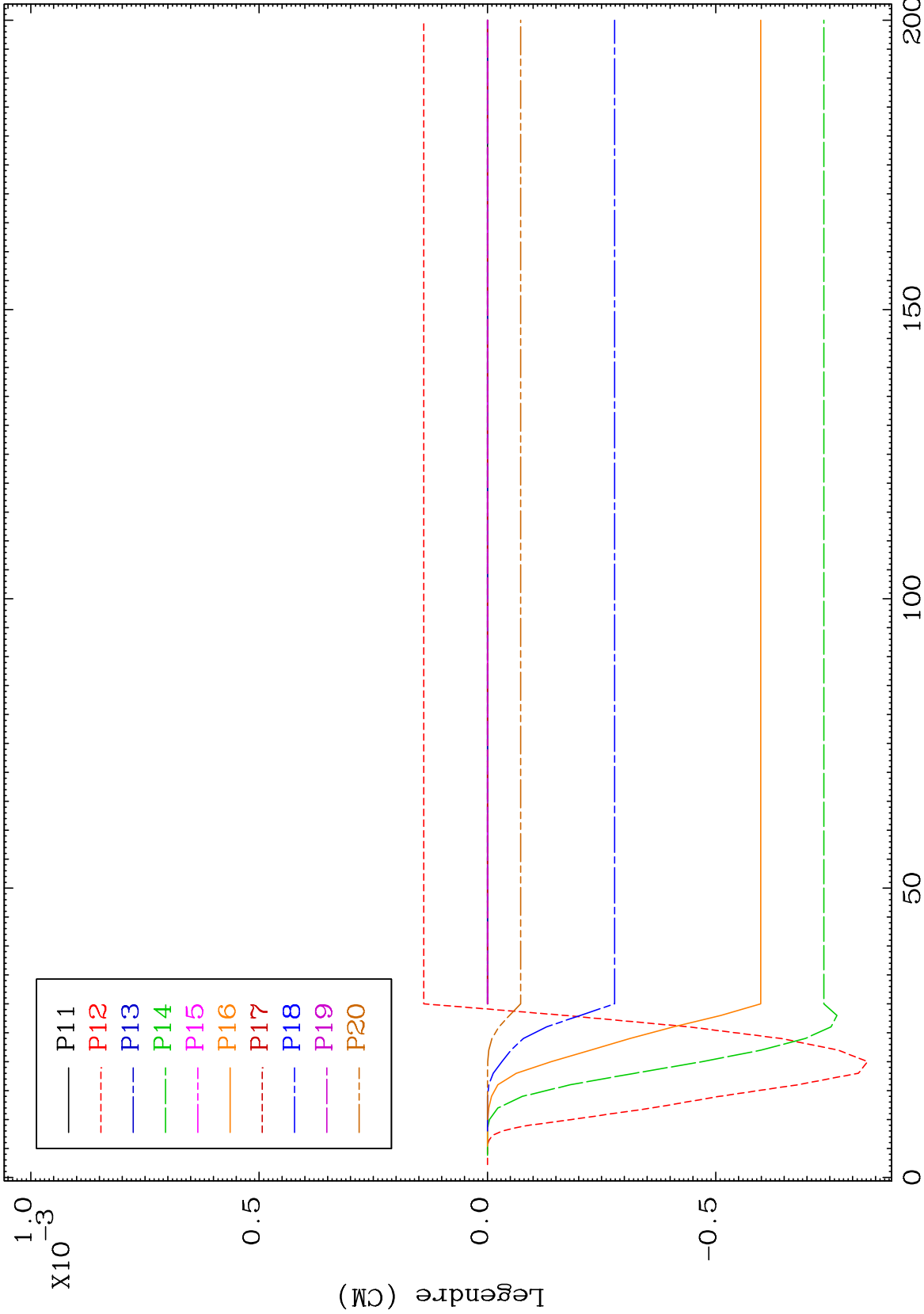
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



74

Incident Energy (MeV)

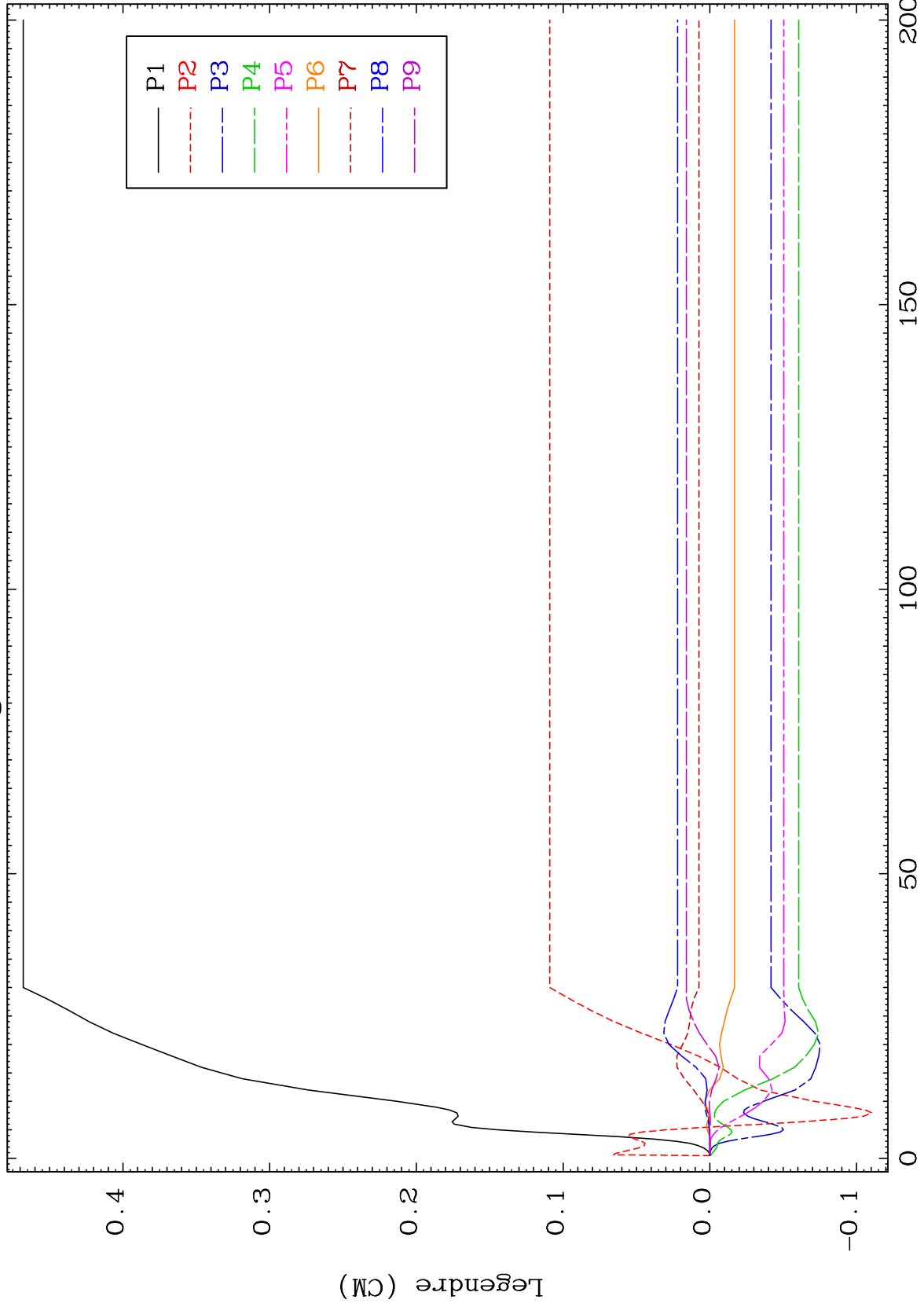
79-Au-177



MAT 7865

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

79-Au-177



76

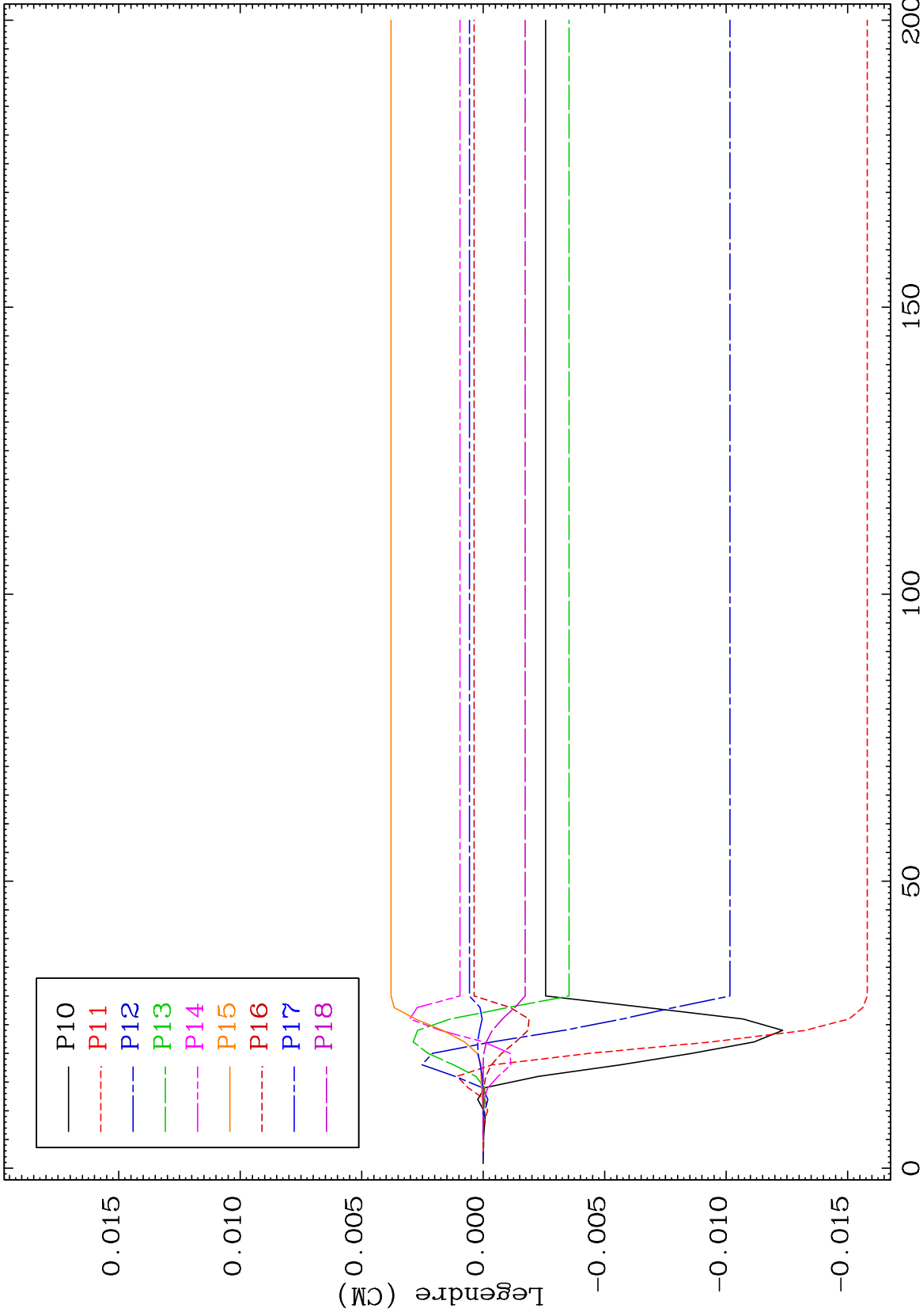
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



77

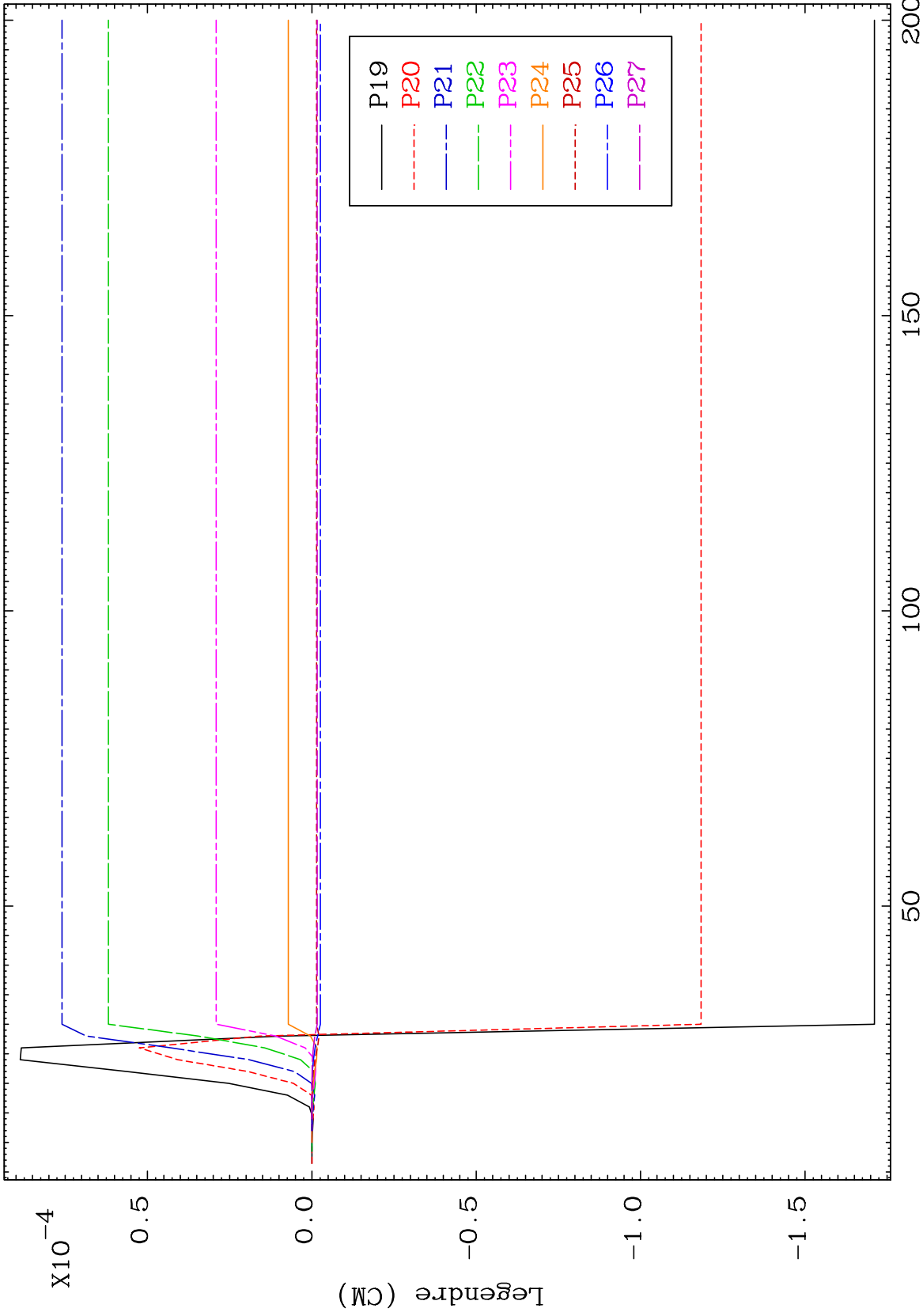
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



78

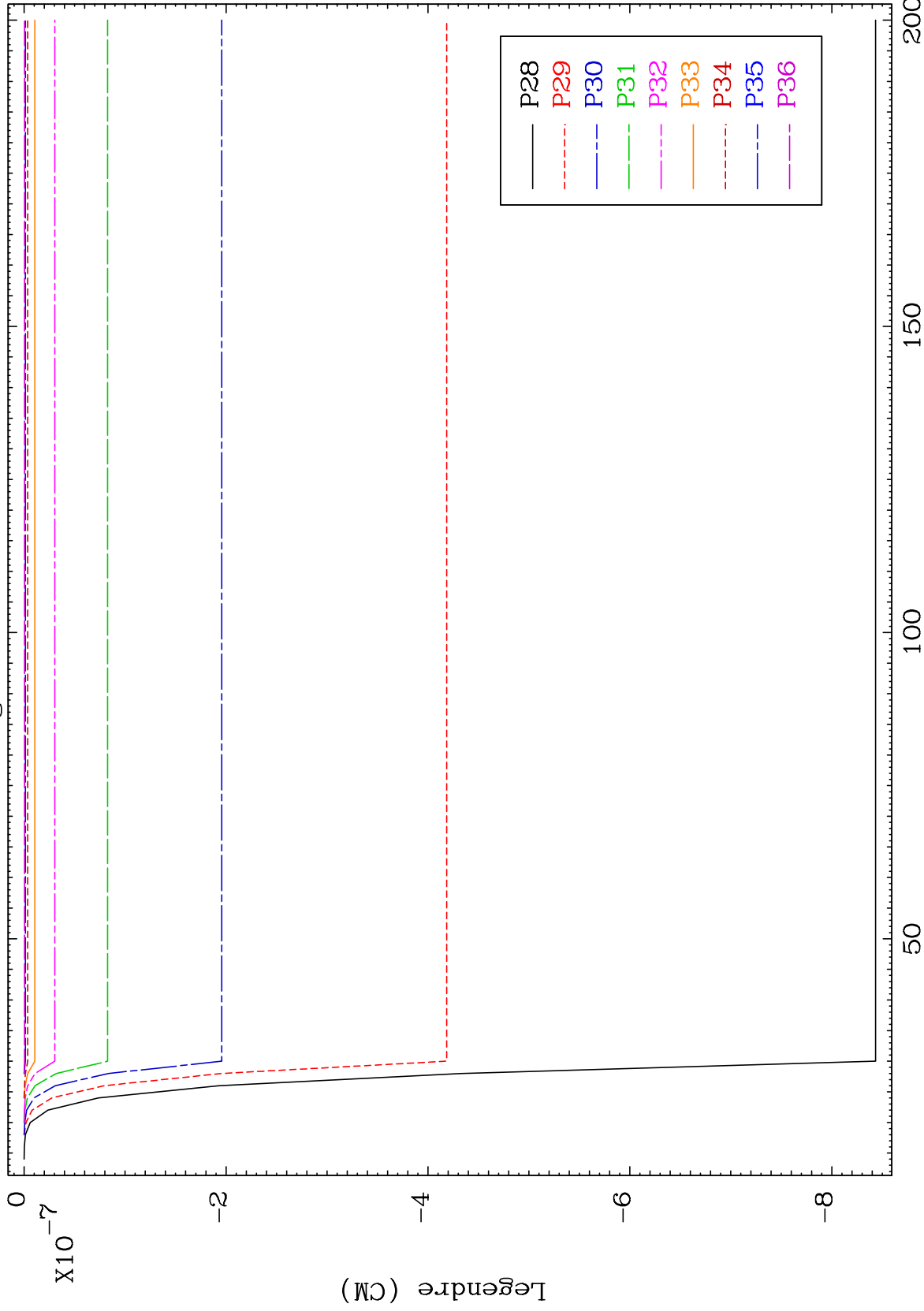
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



79

Incident Energy (MeV)

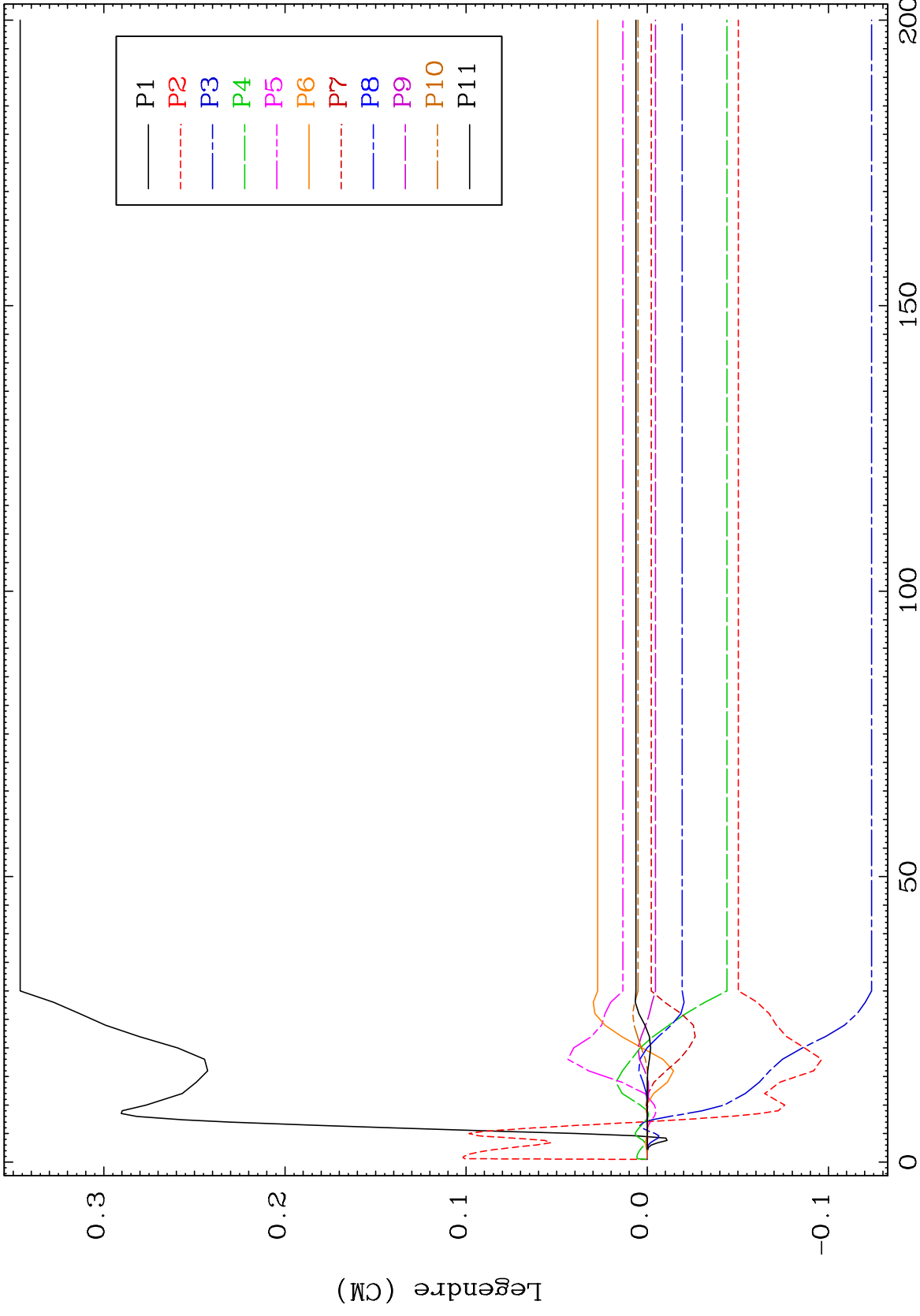
79-Au-177



MAT 7865

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

79-Au-177



80

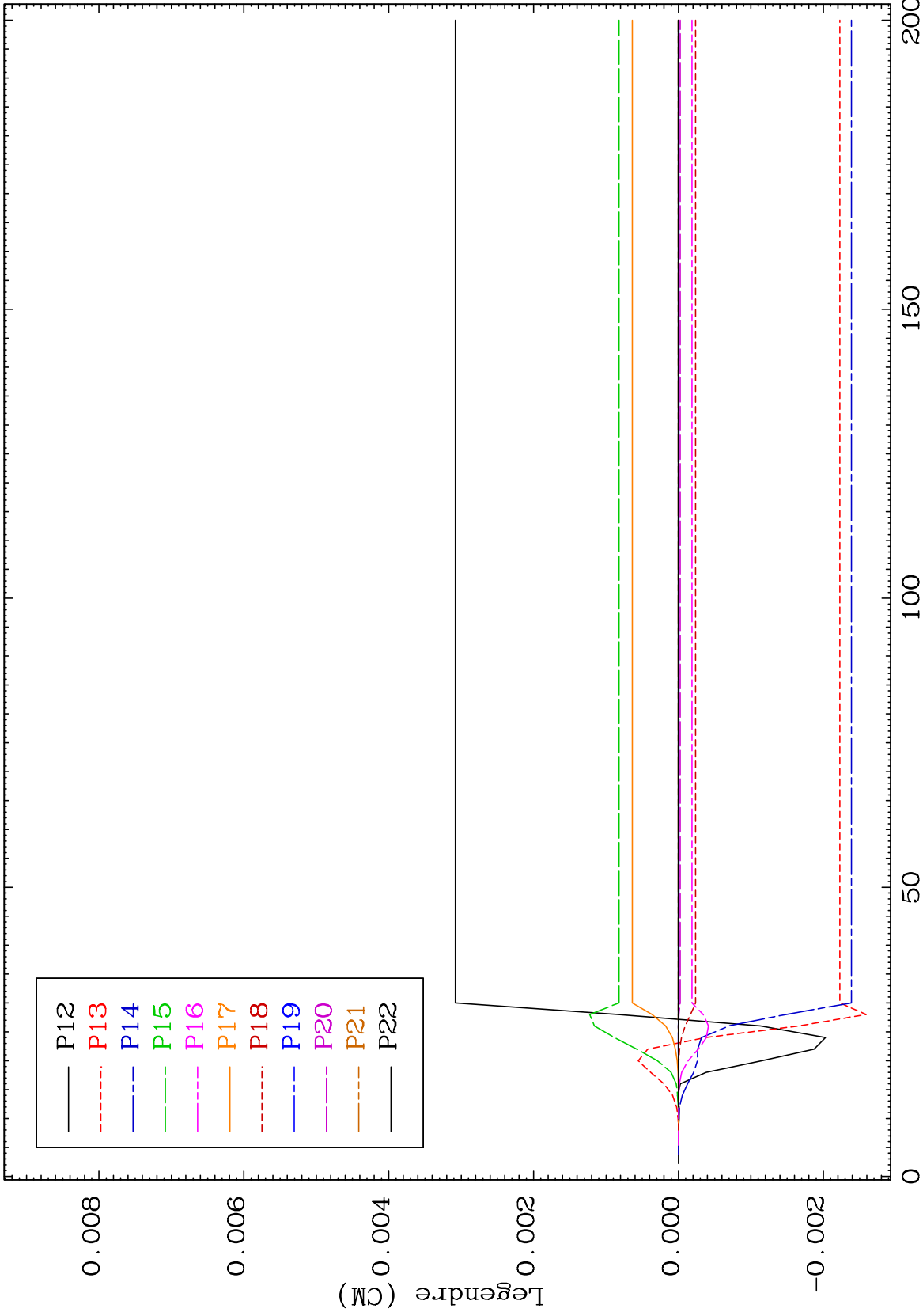
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



81

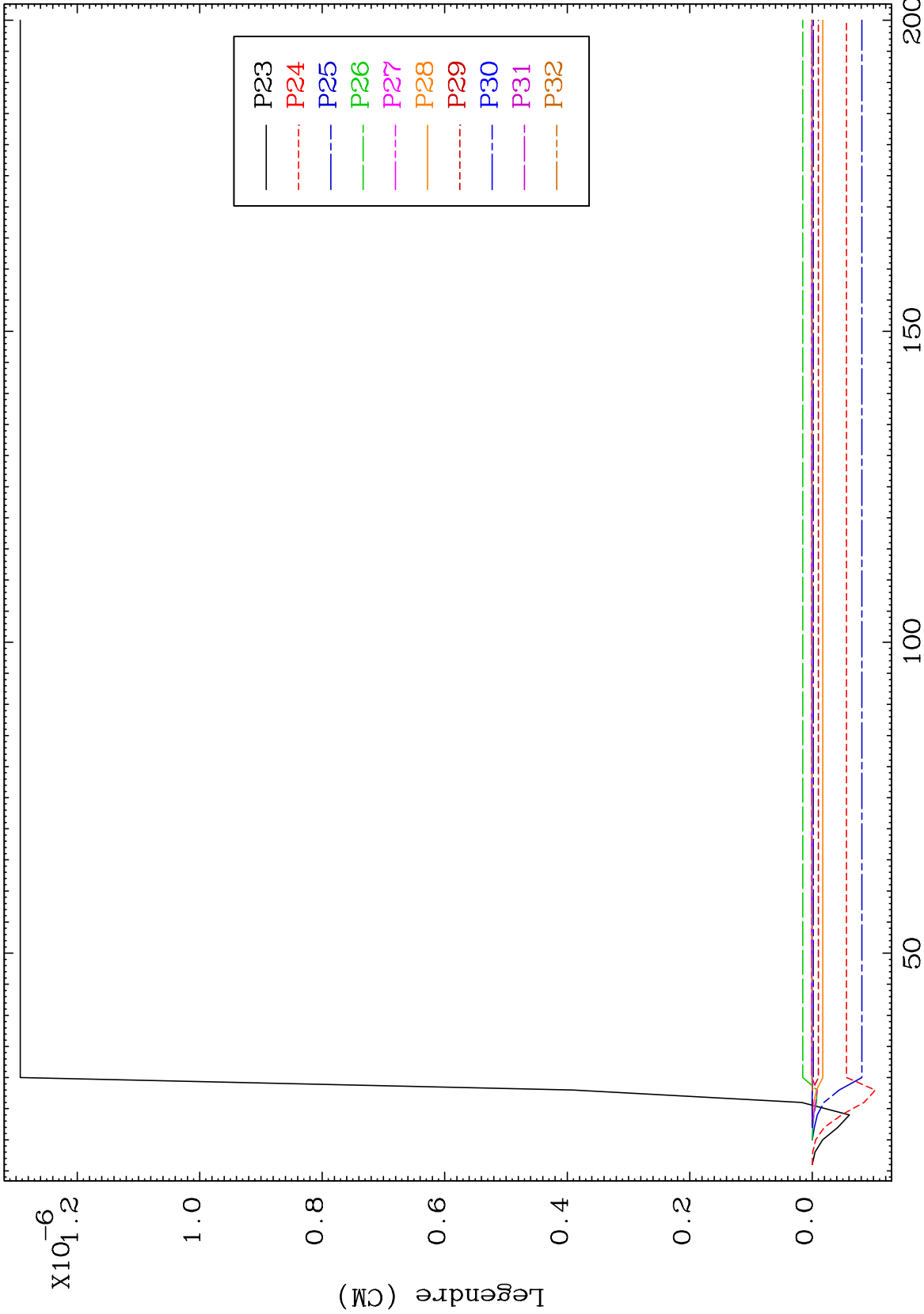
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



82

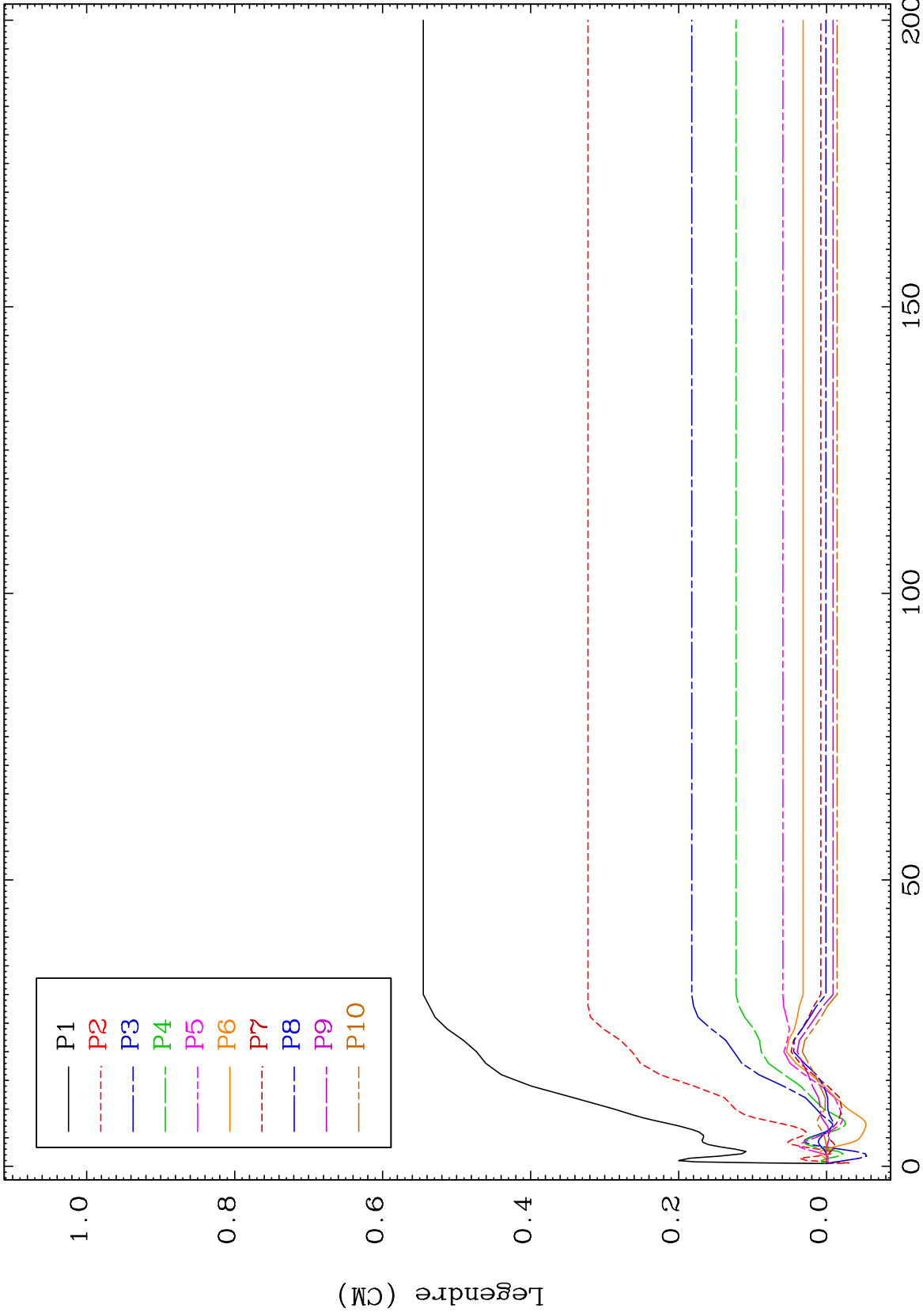
Incident Energy (MeV)

79-Au-177

MAT 7865

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

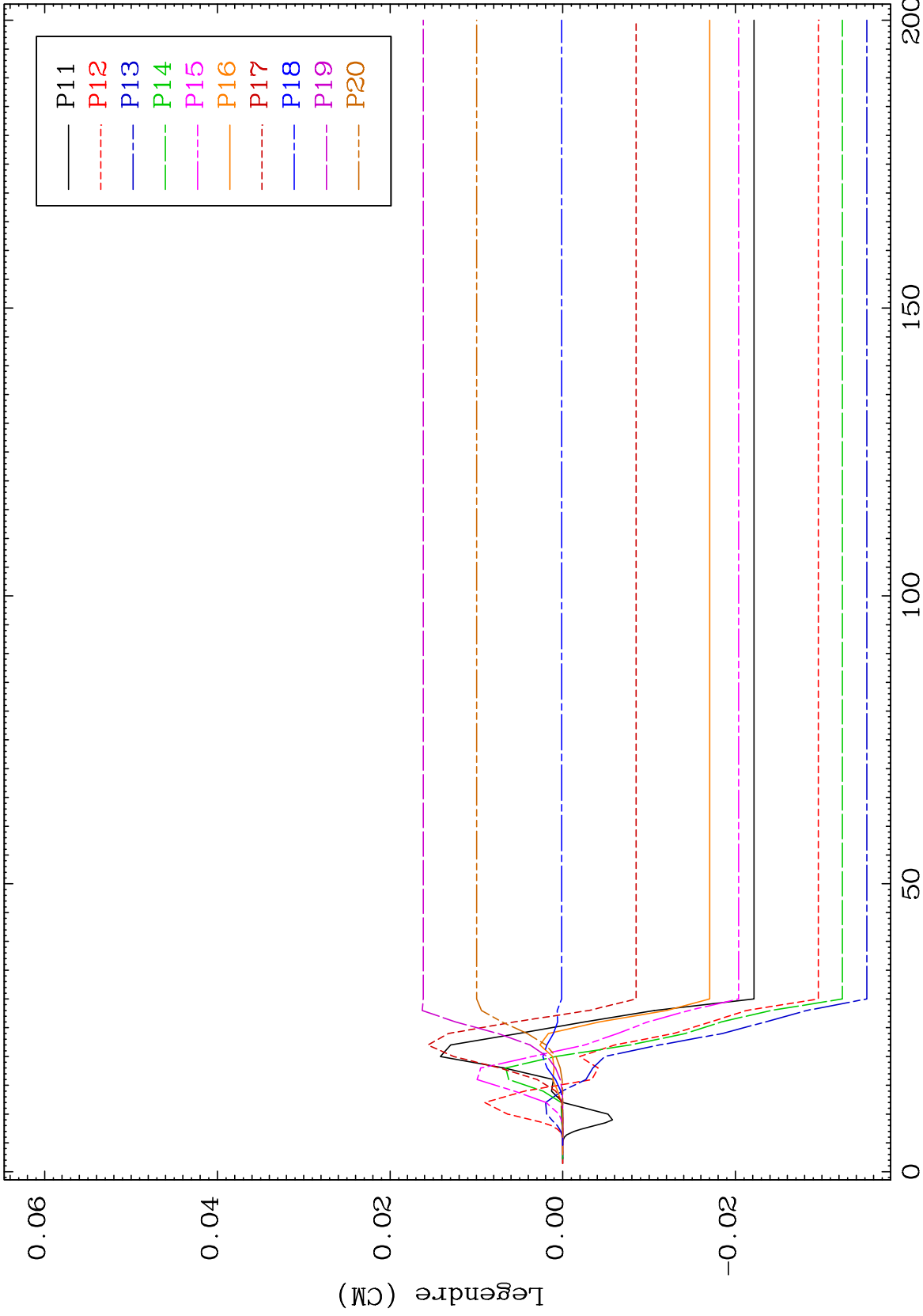
79-Au-177



MAT 7865

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

79-Au-177



84

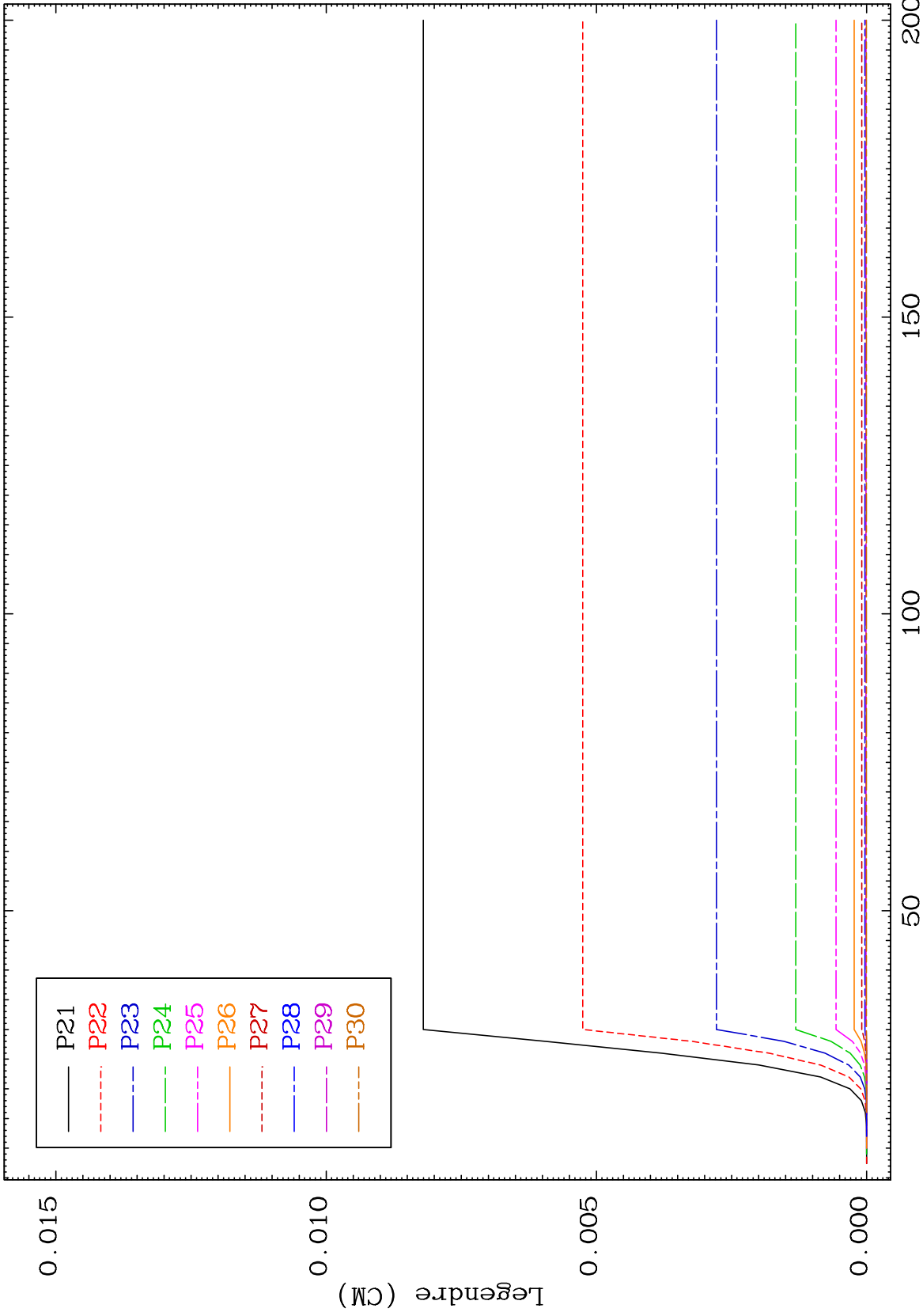
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



85

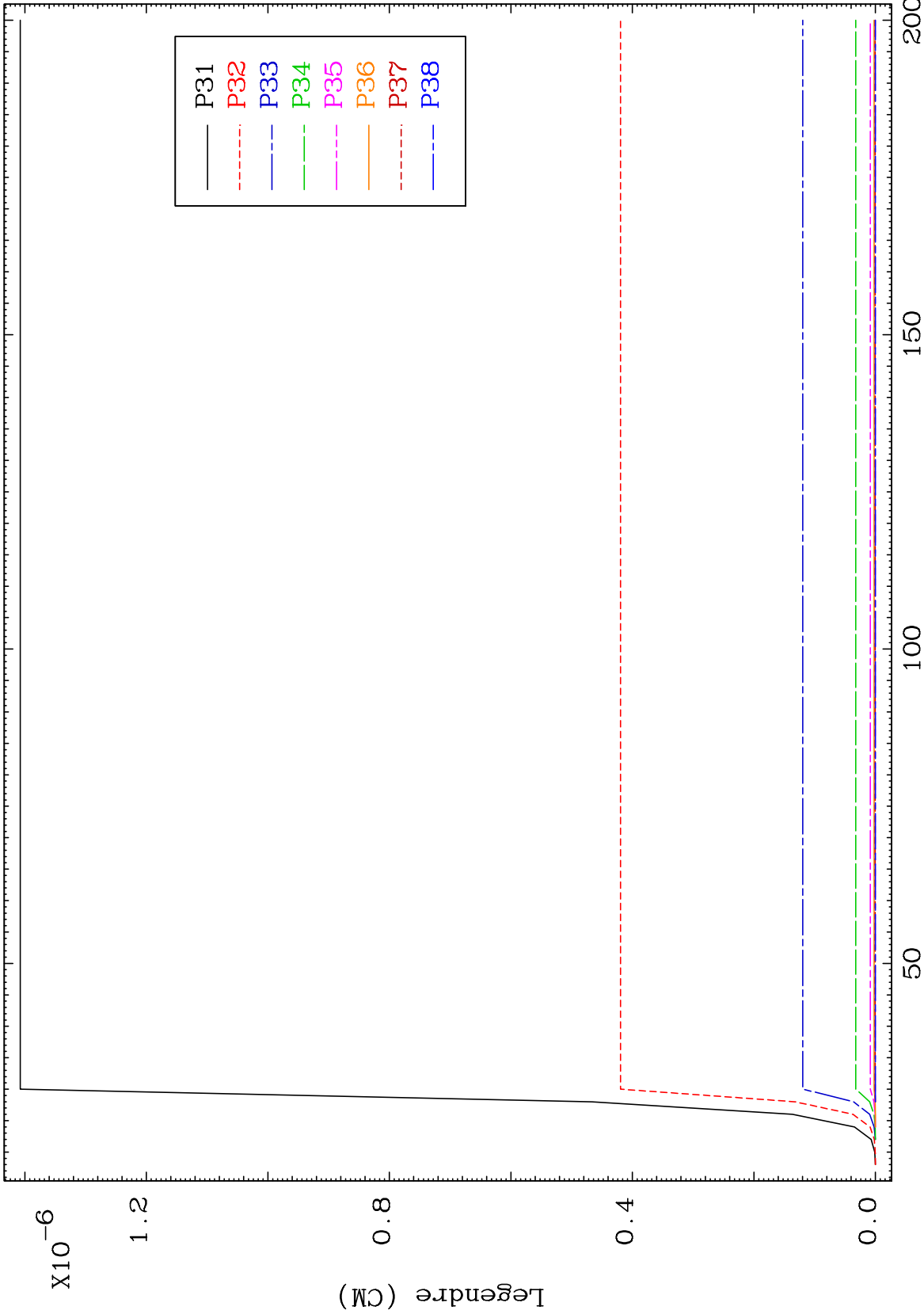
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



86

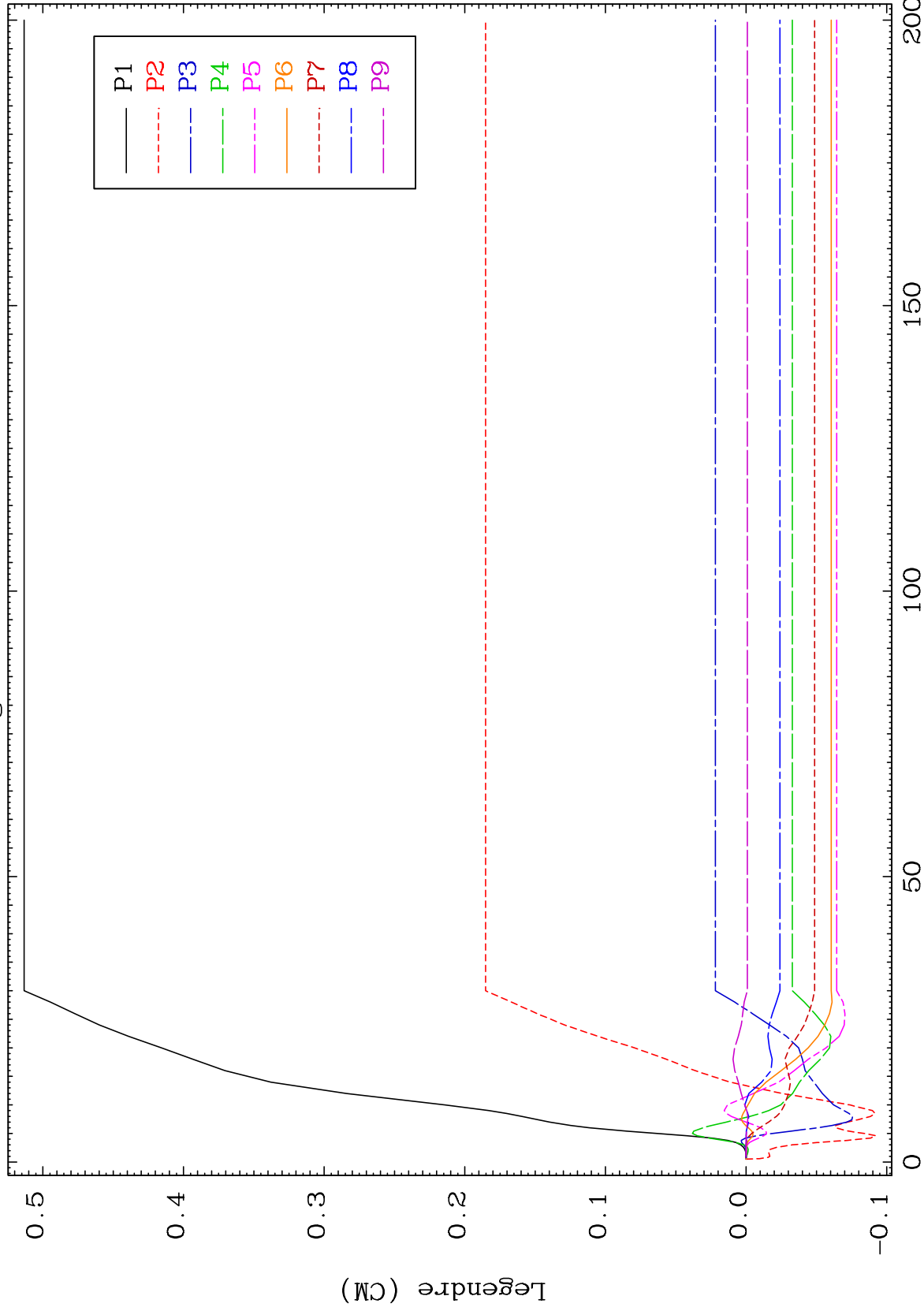
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



87

Incident Energy (MeV)

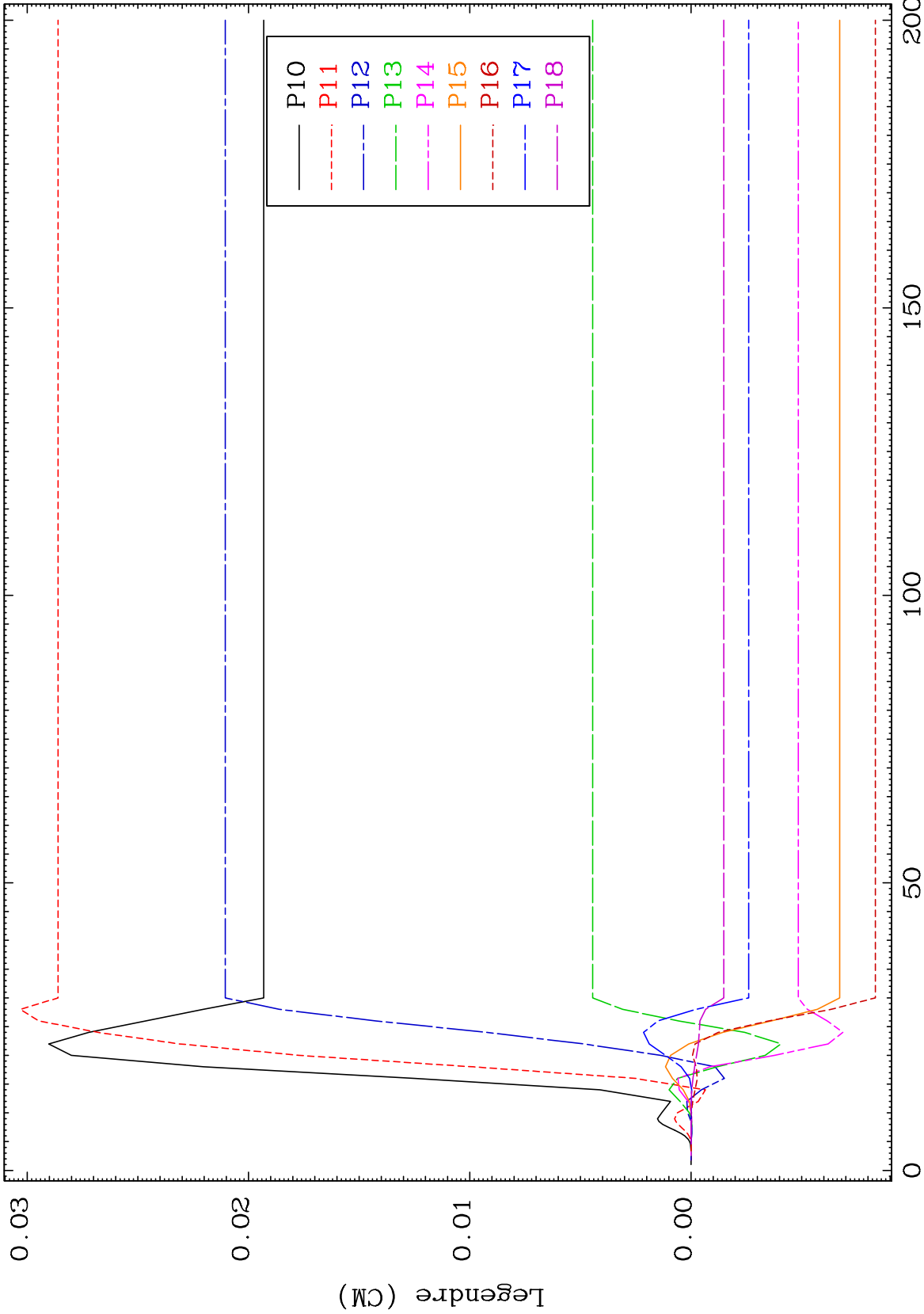
79-Au-177



MAT 7865

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

79-Au-177



88

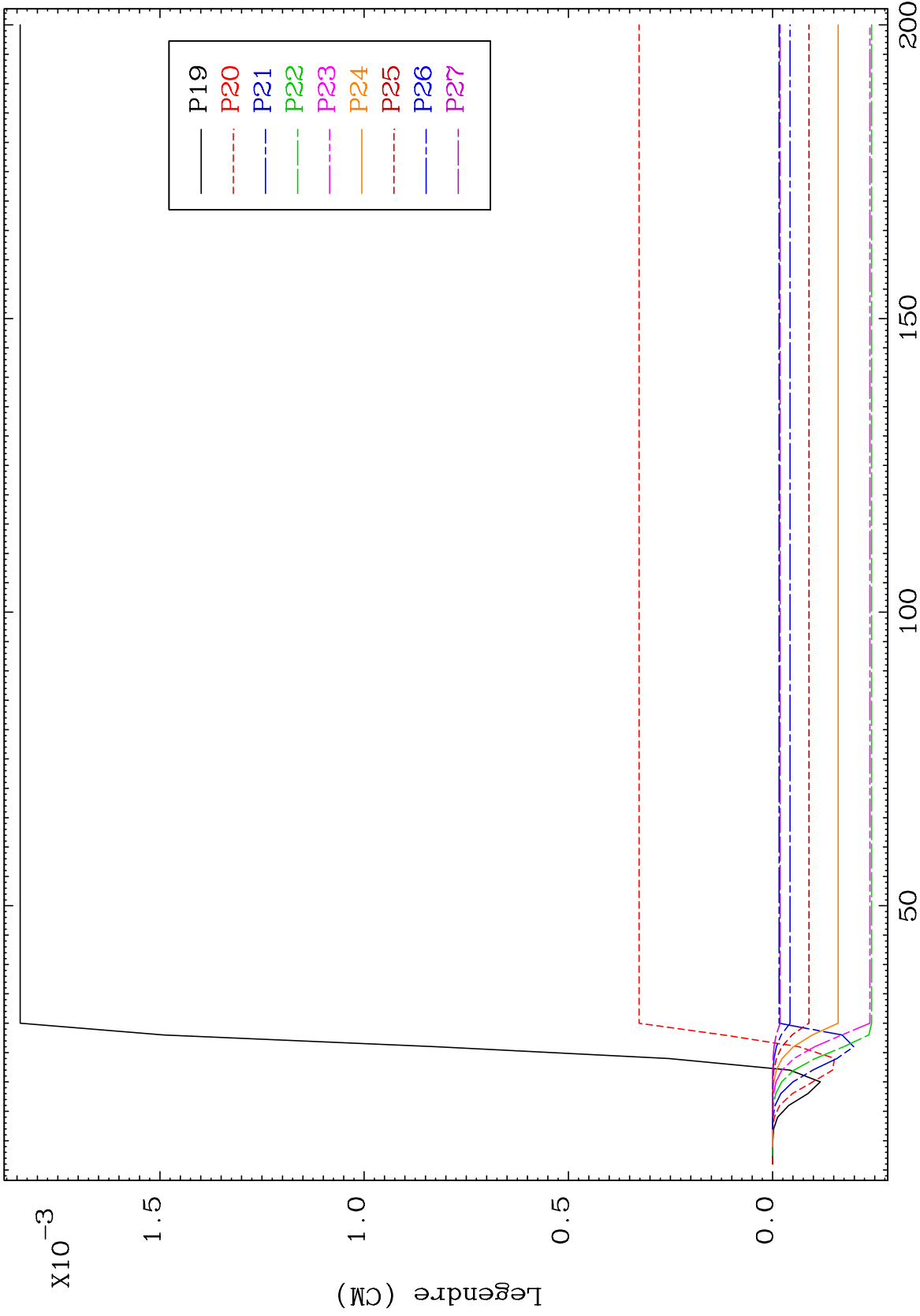
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



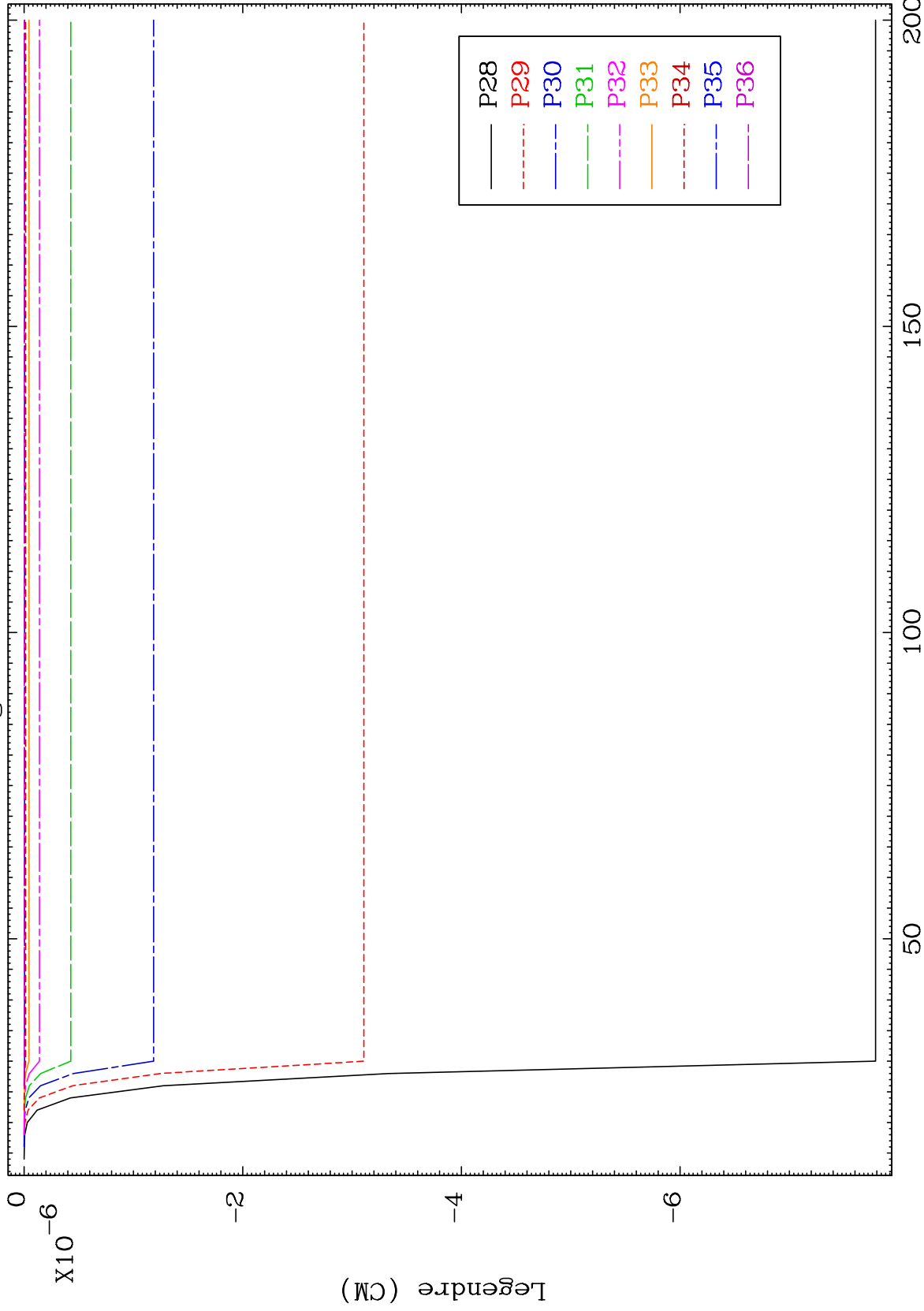
89

79-Au-177

MAT 7865

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

79-Au-177



79-Au-177

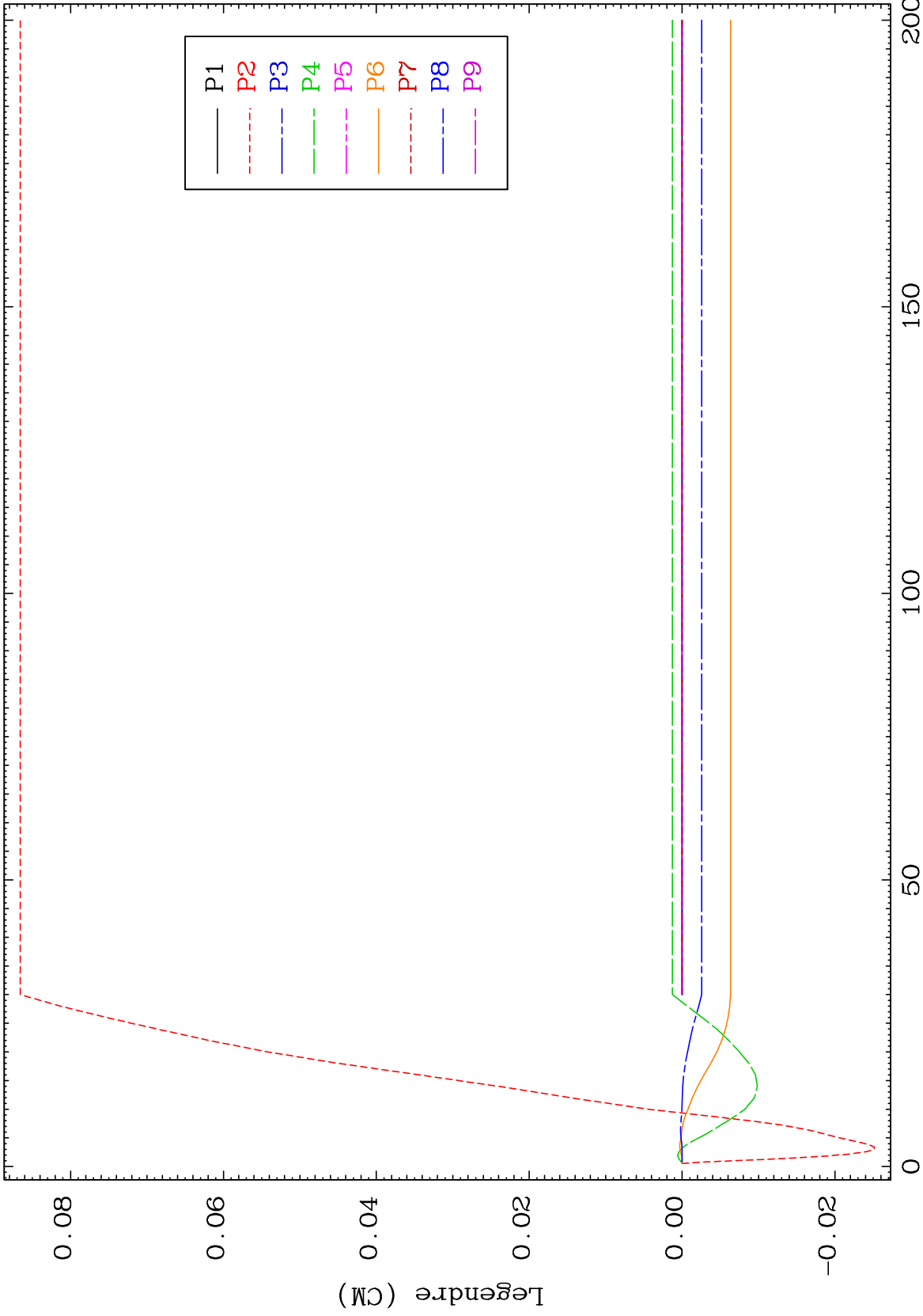
Incident Energy (MeV)

90

MAT 7865

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

79-Au-177



91

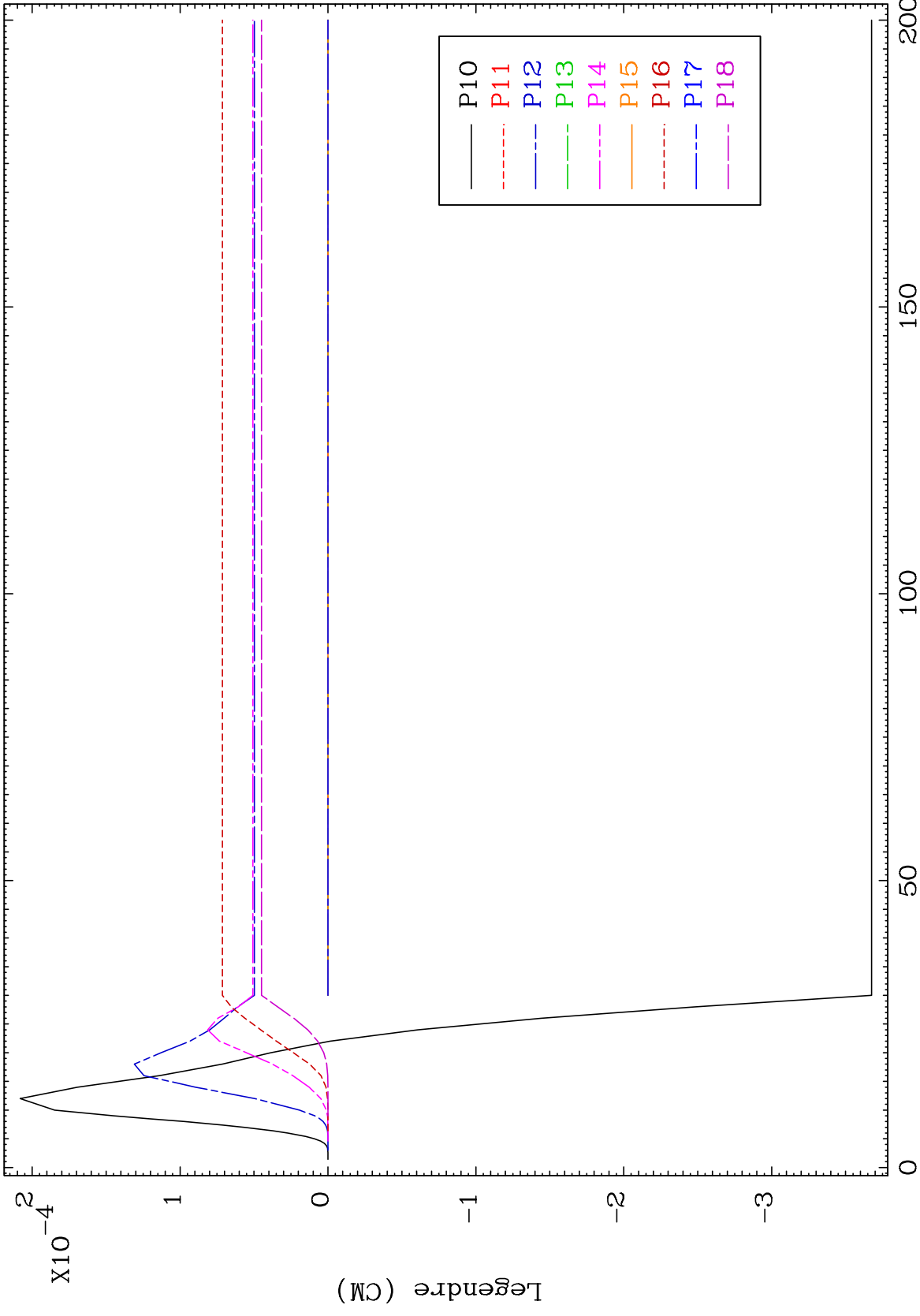
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



92

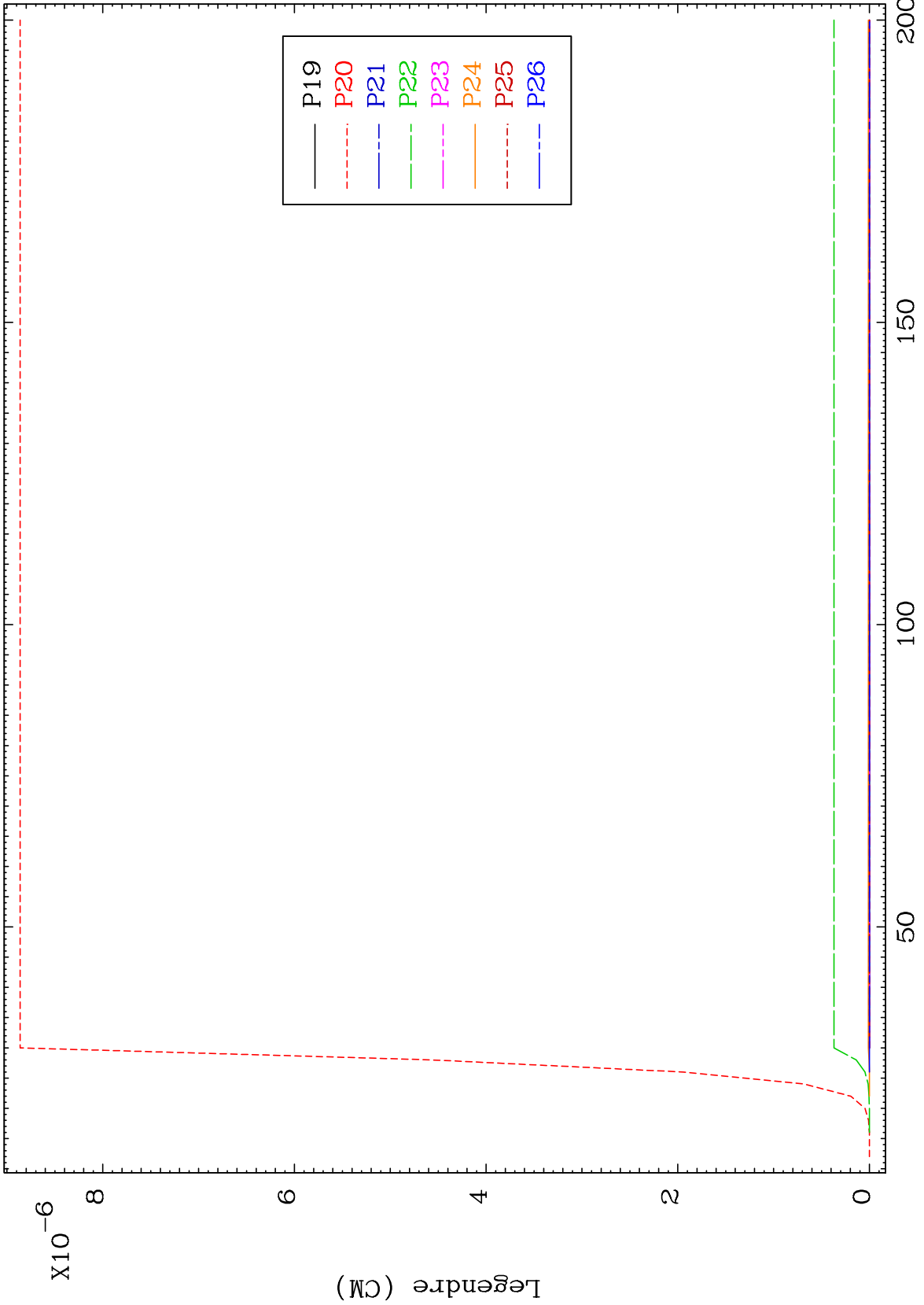
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



93

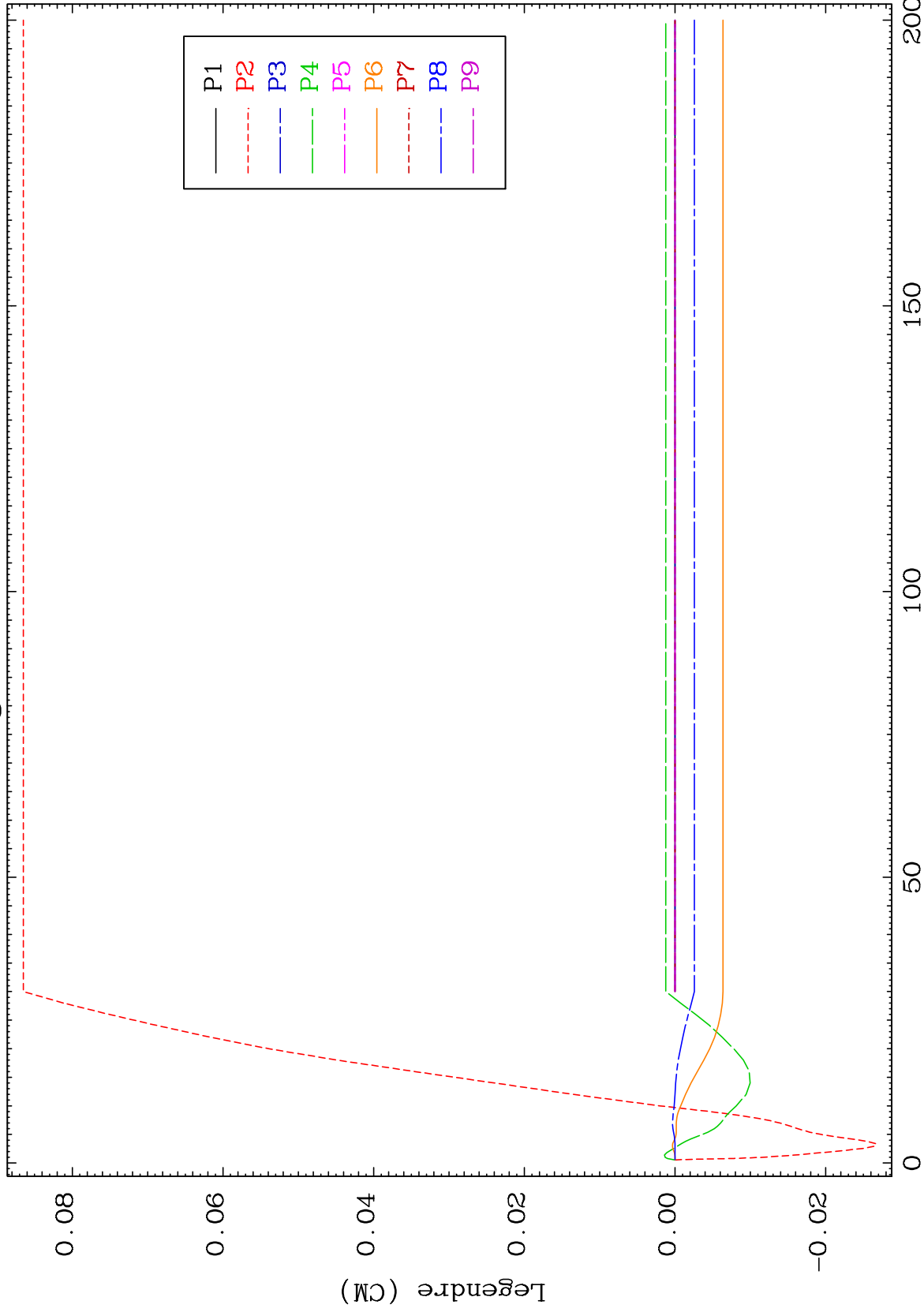
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



94

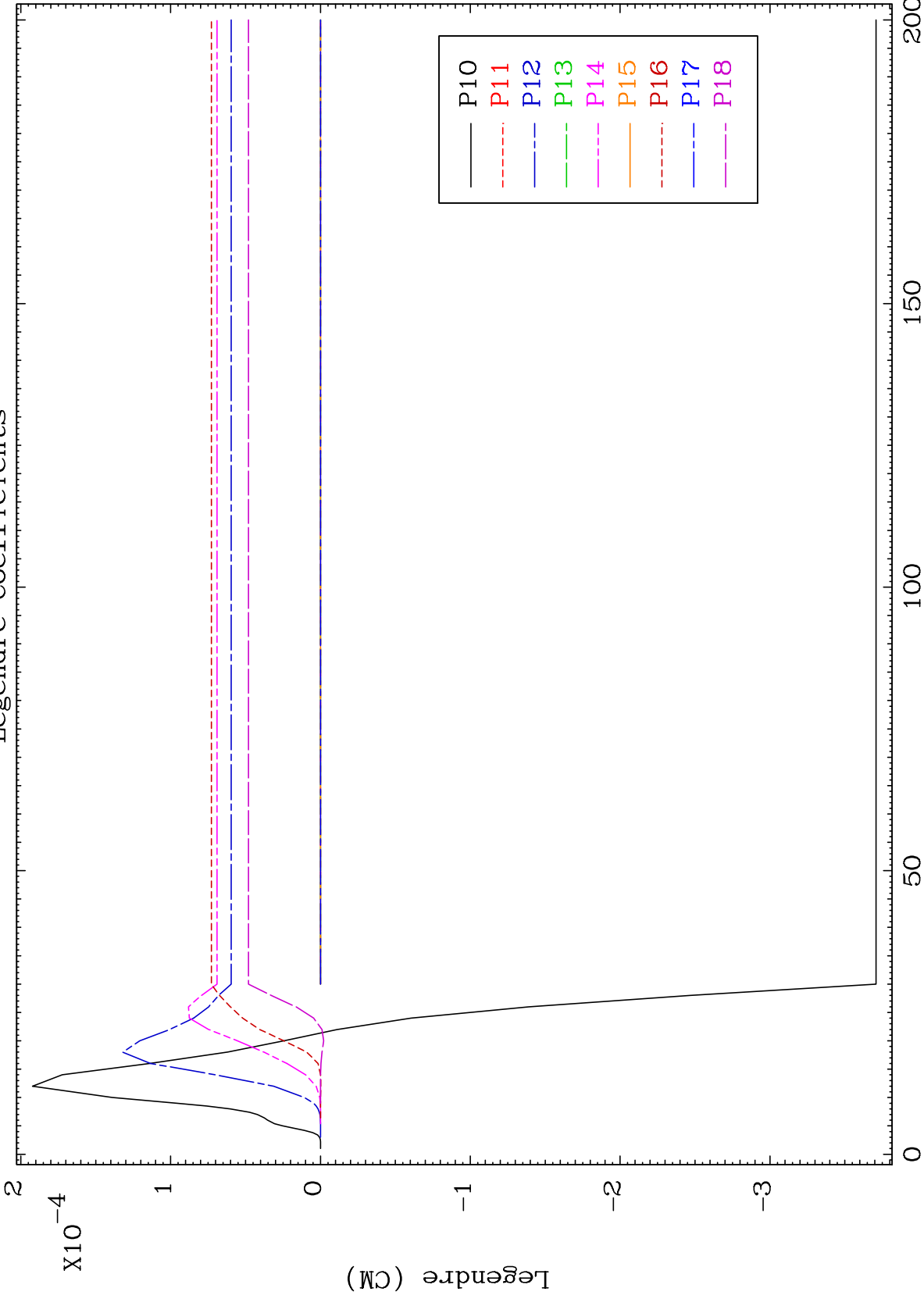
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



95

Incident Energy (MeV)

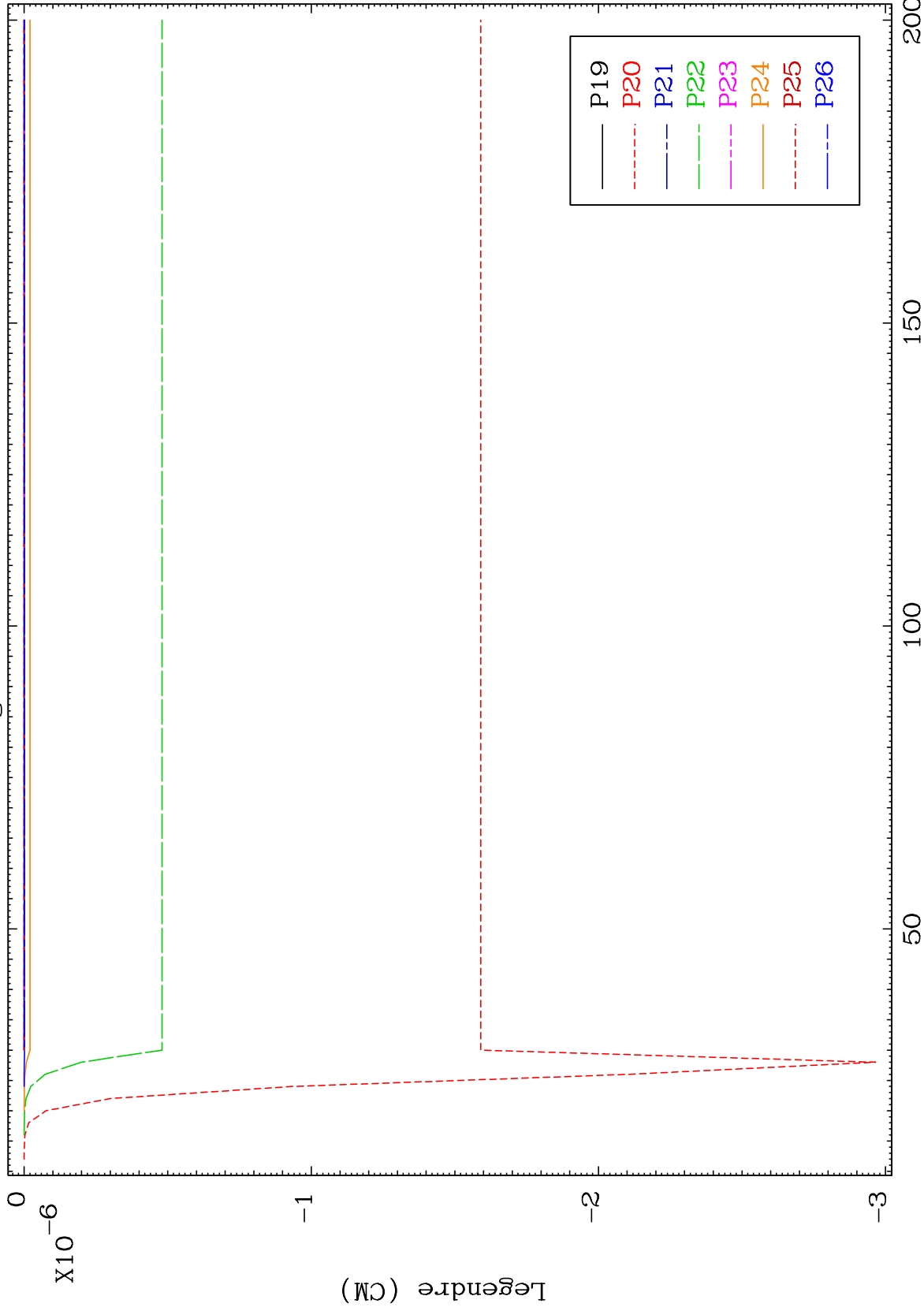
79-Au-177



MAT 7865

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

79-Au-177



96

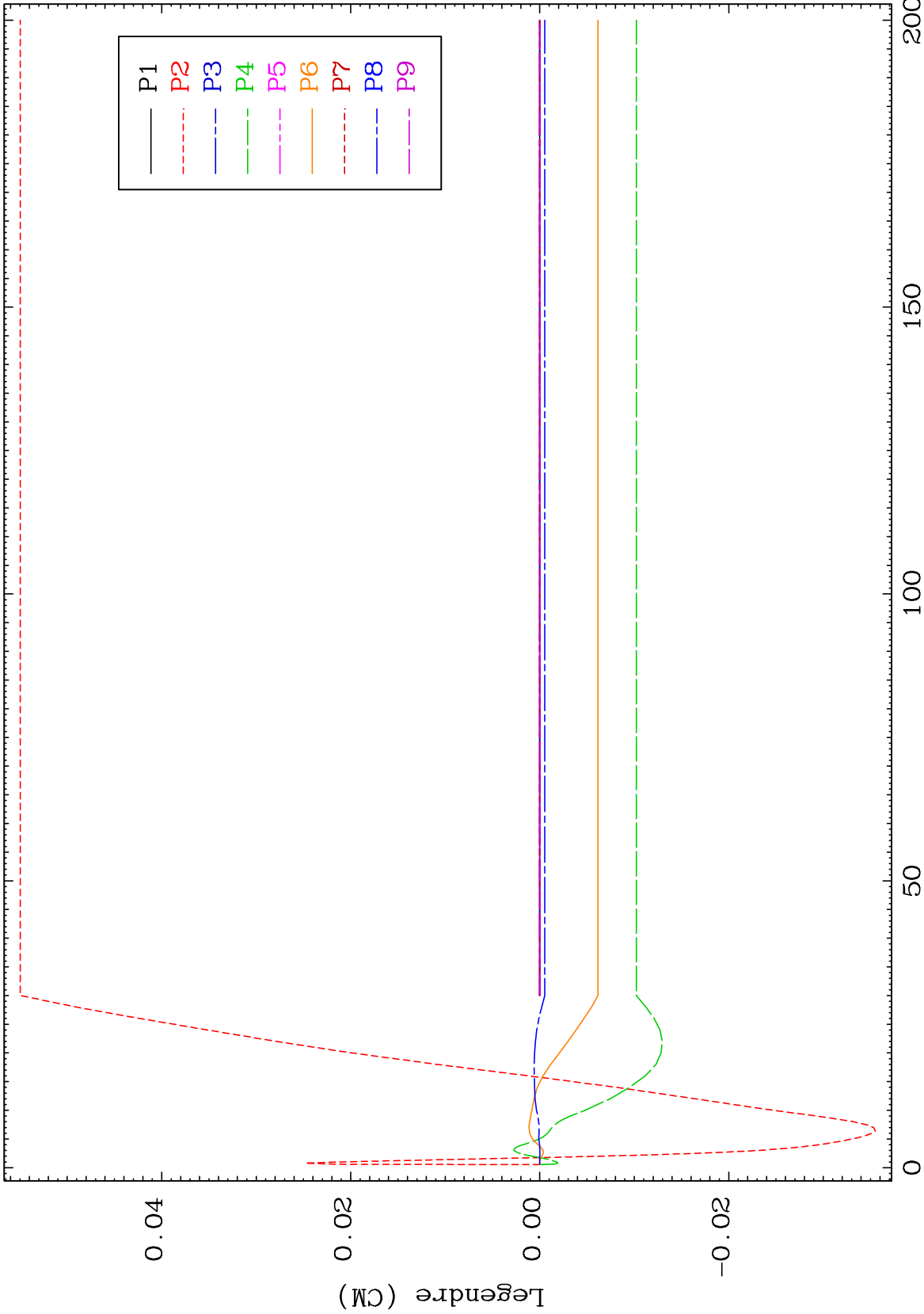
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



97

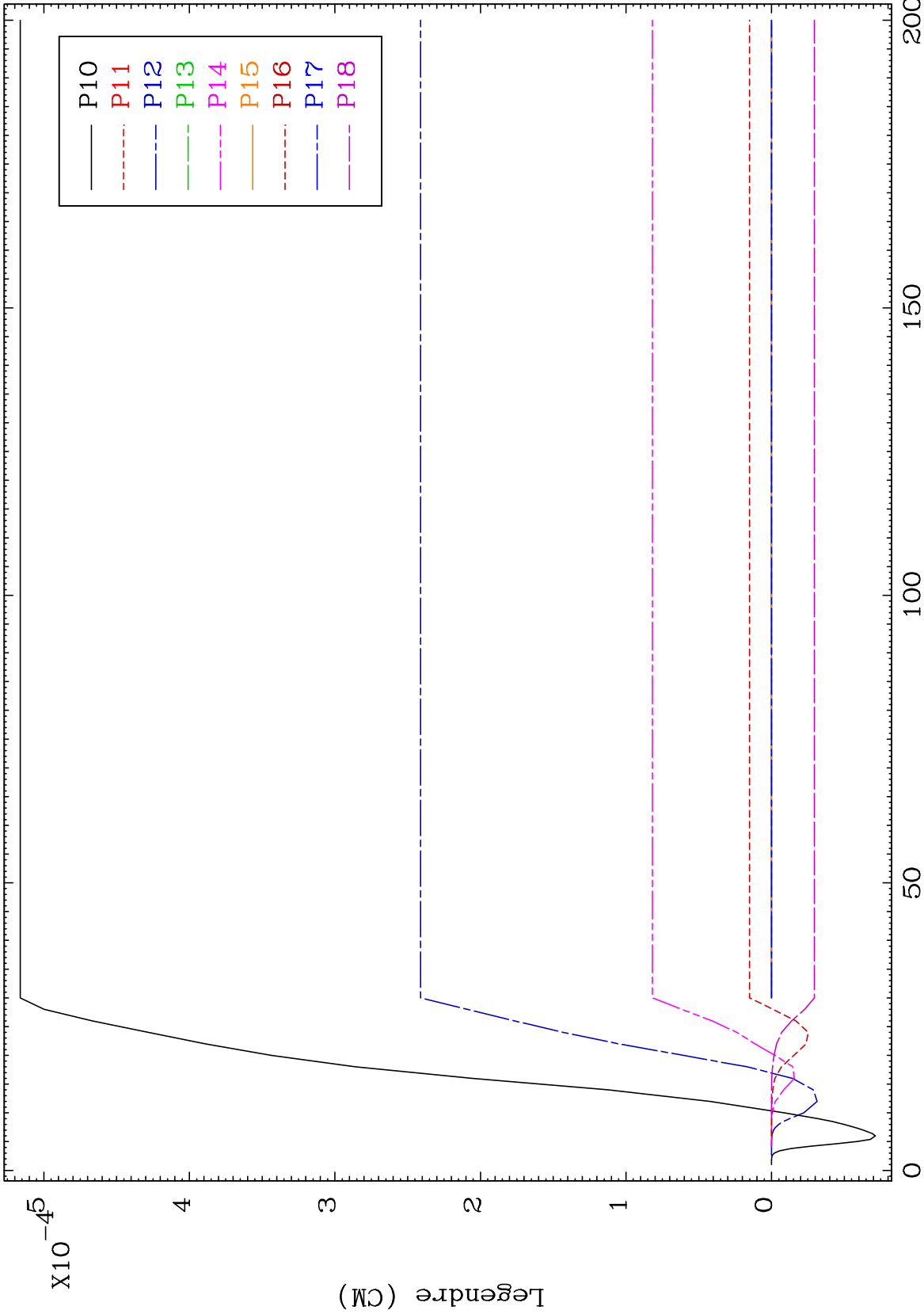
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



98

Incident Energy (MeV)

79-Au-177

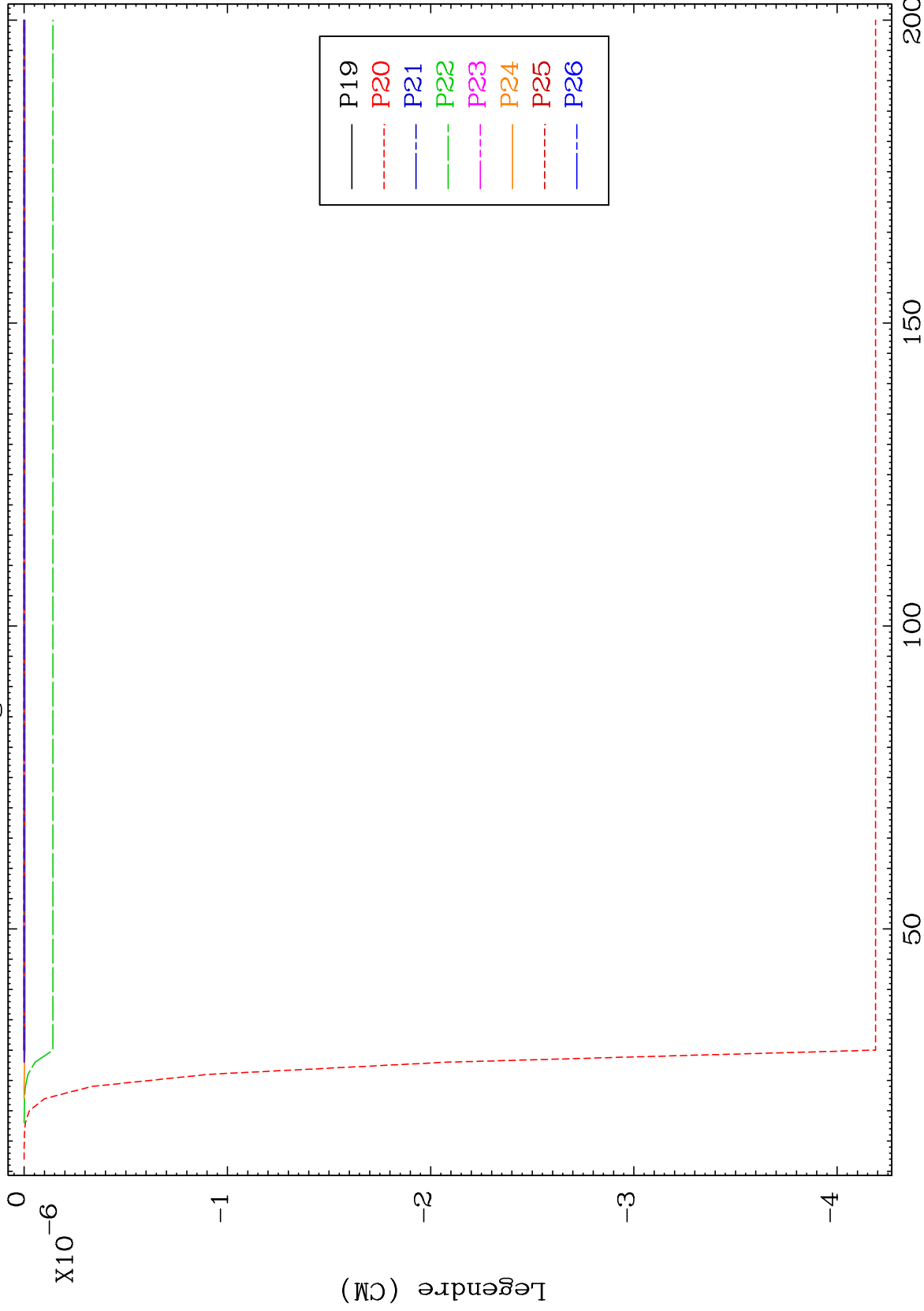
MAT 7865

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

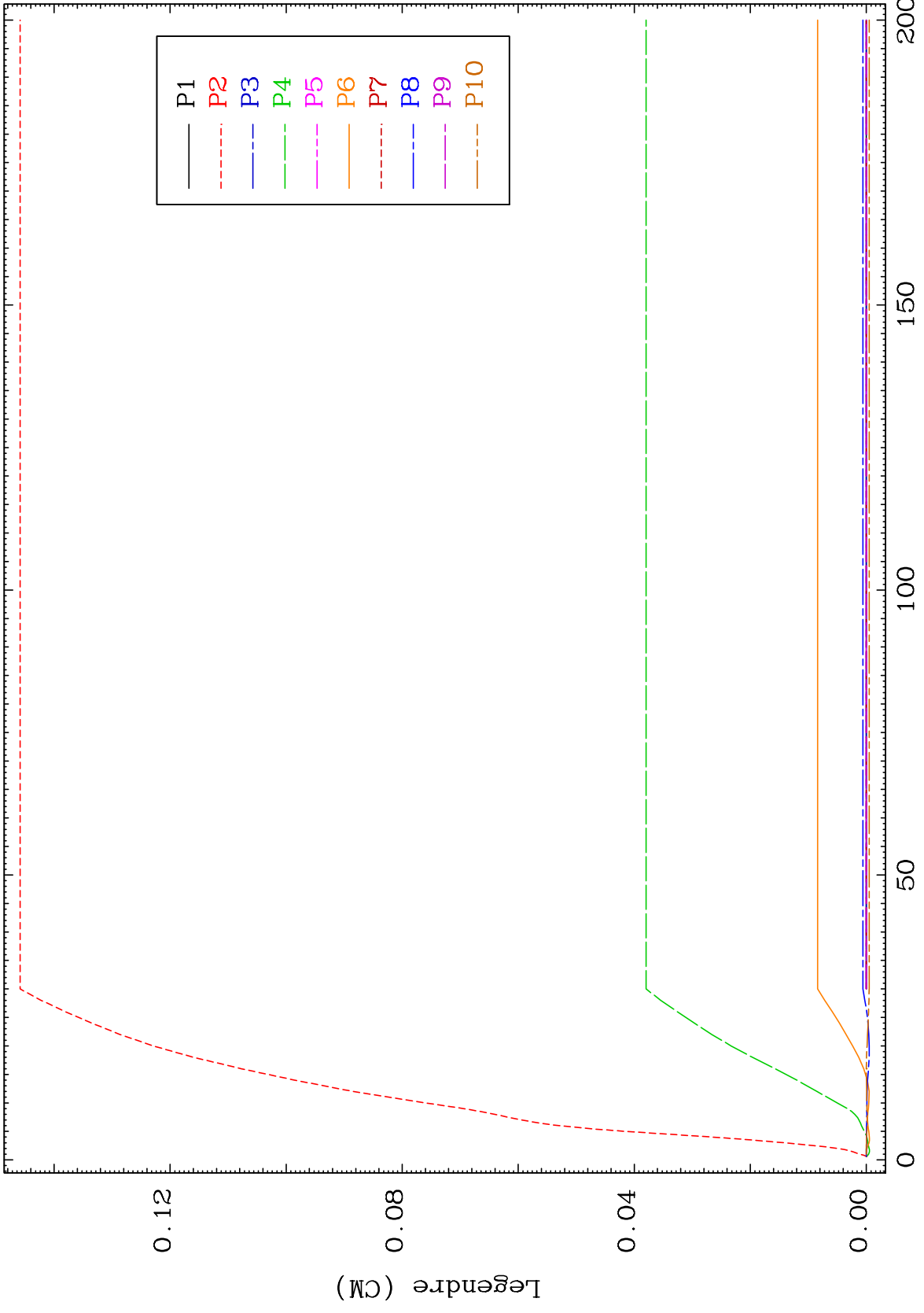
79-Au-177

Incident Energy (MeV)

99



MAT 7865 MT= 73 (n,n') Level Legendre Coefficients 79-Au-177

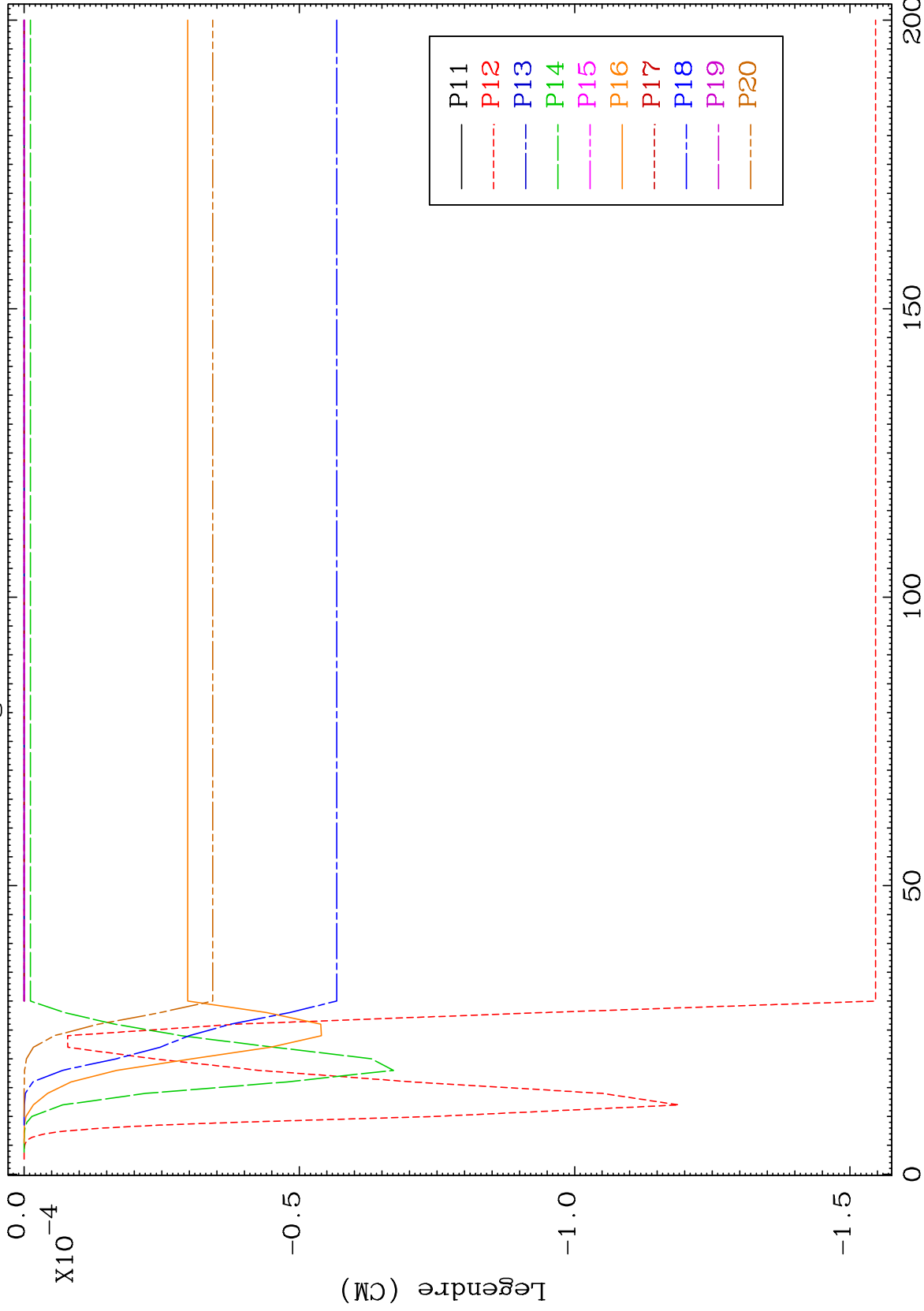


79-Au-177

MAT 7865

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

79-Au-177



101

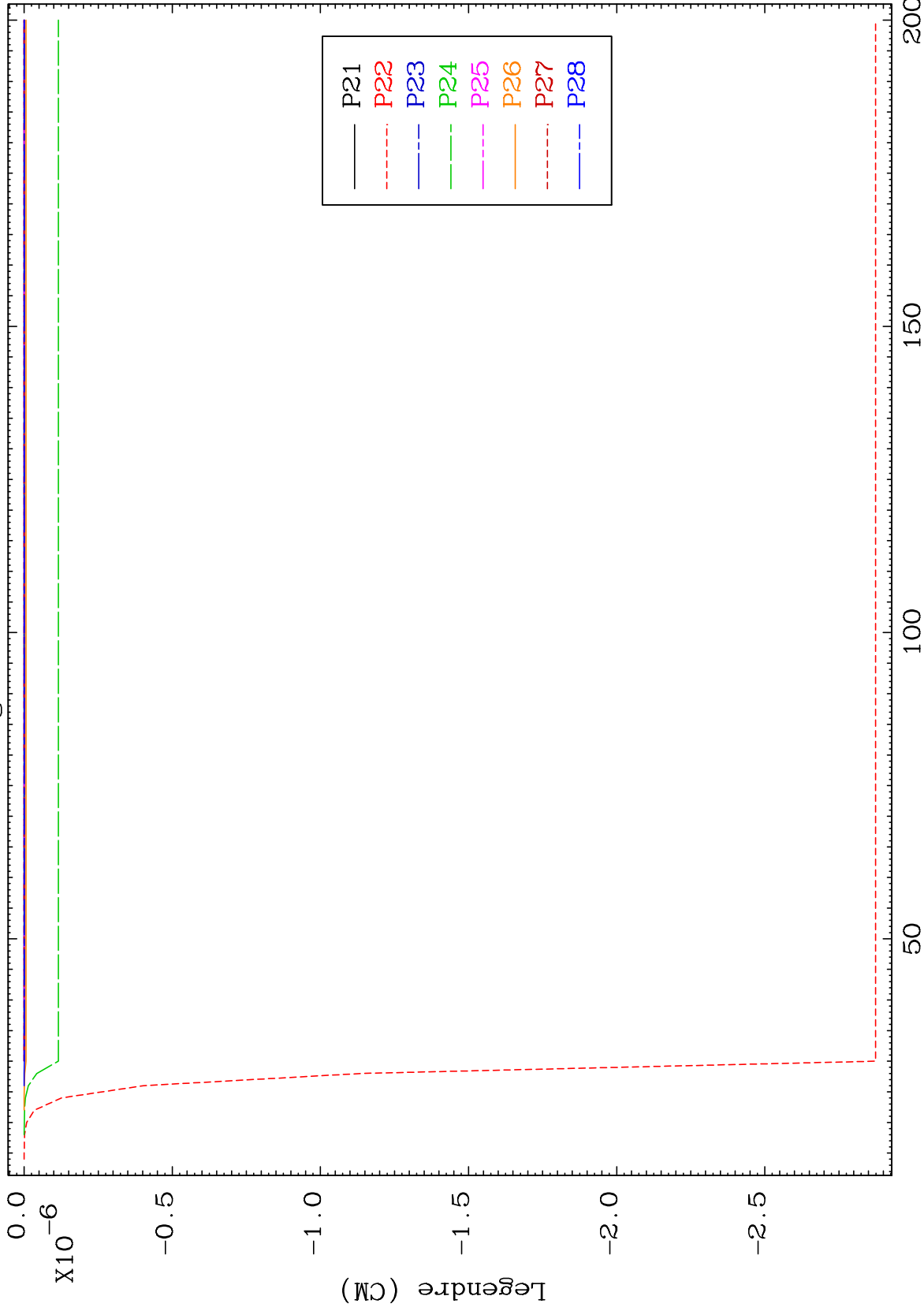
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



79-Au-177

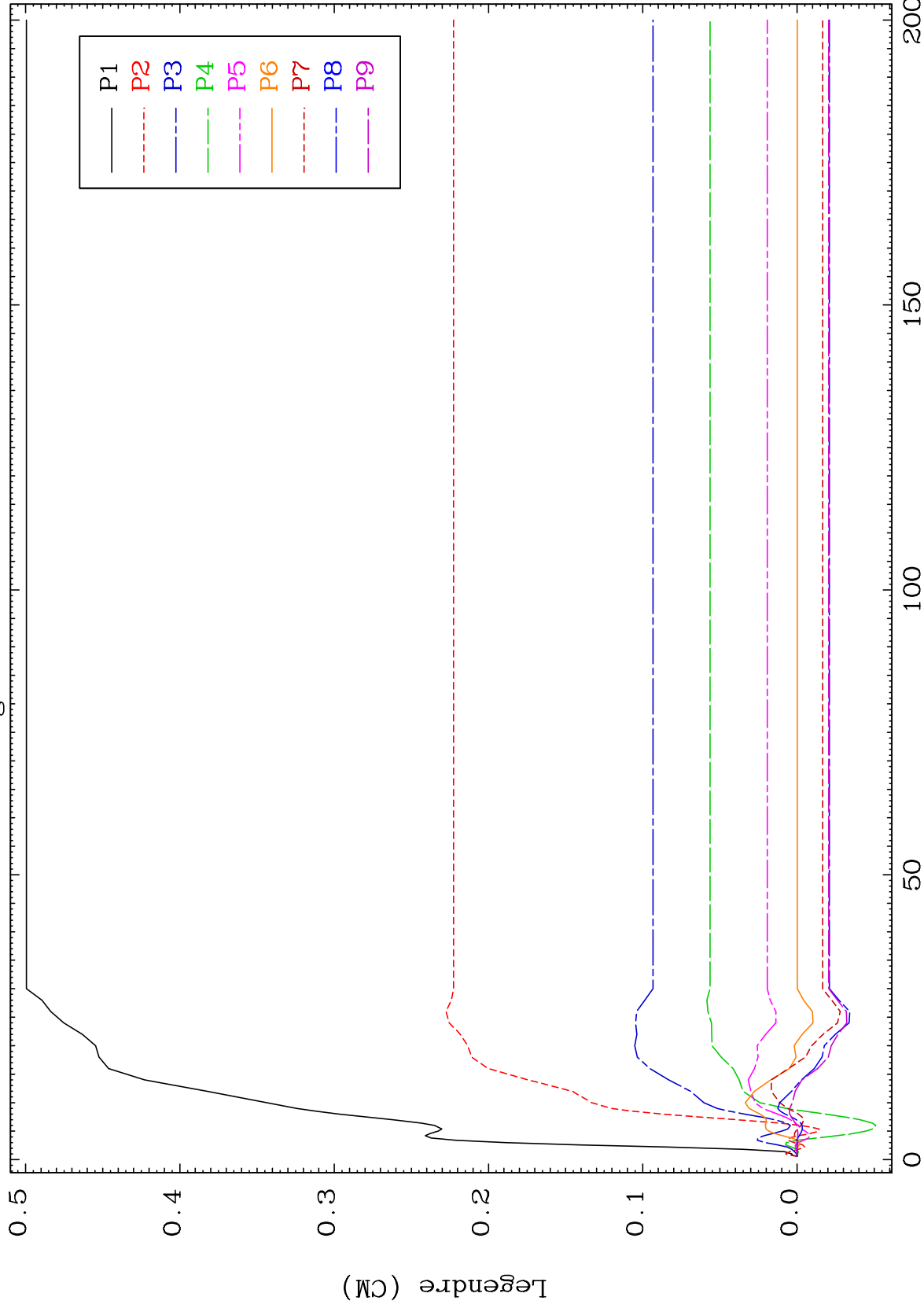
Incident Energy (MeV)

102

MAT 7865

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

79-Au-177



103

Incident Energy (MeV)

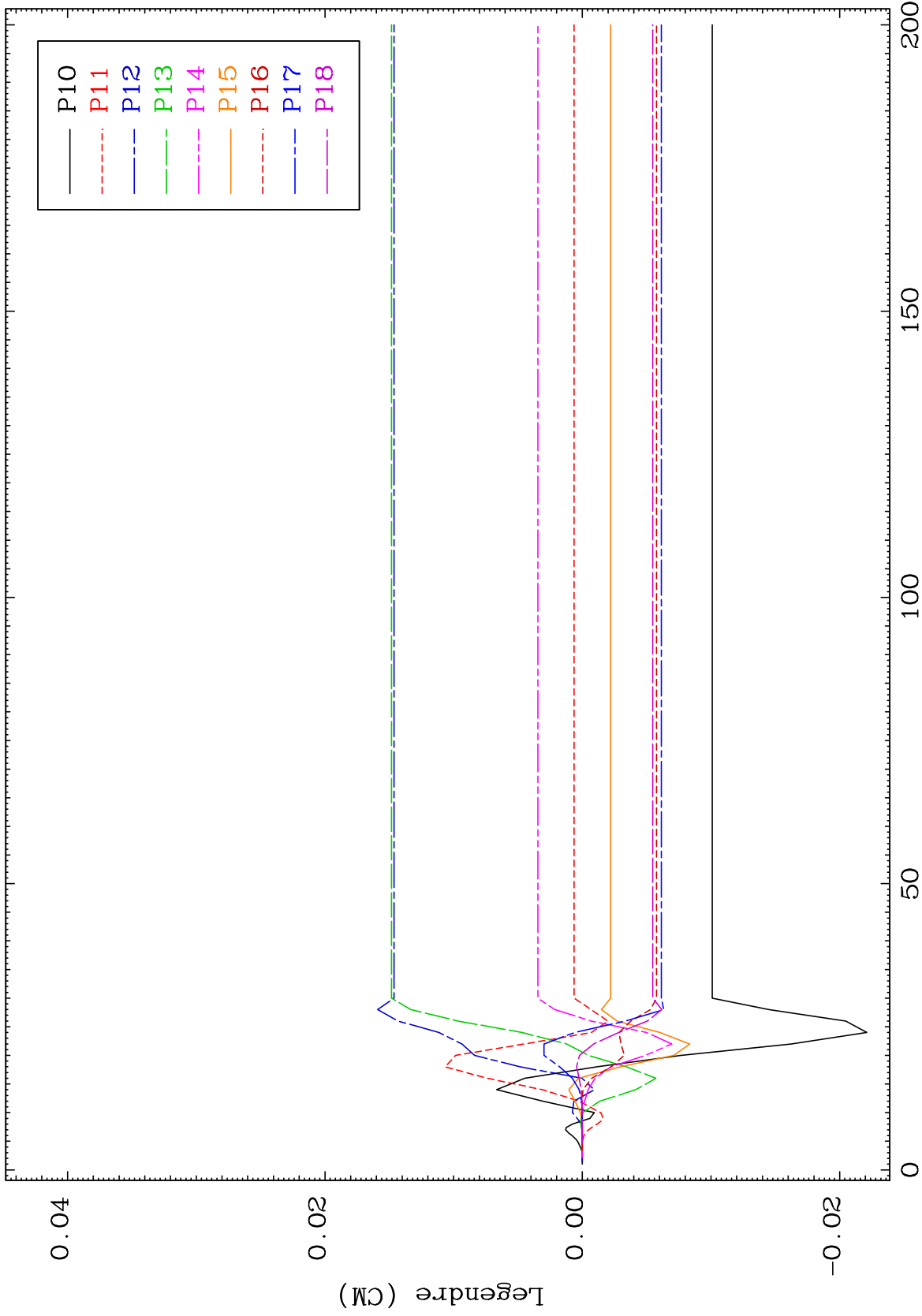
79-Au-177



MAT 7865

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

79-Au-177



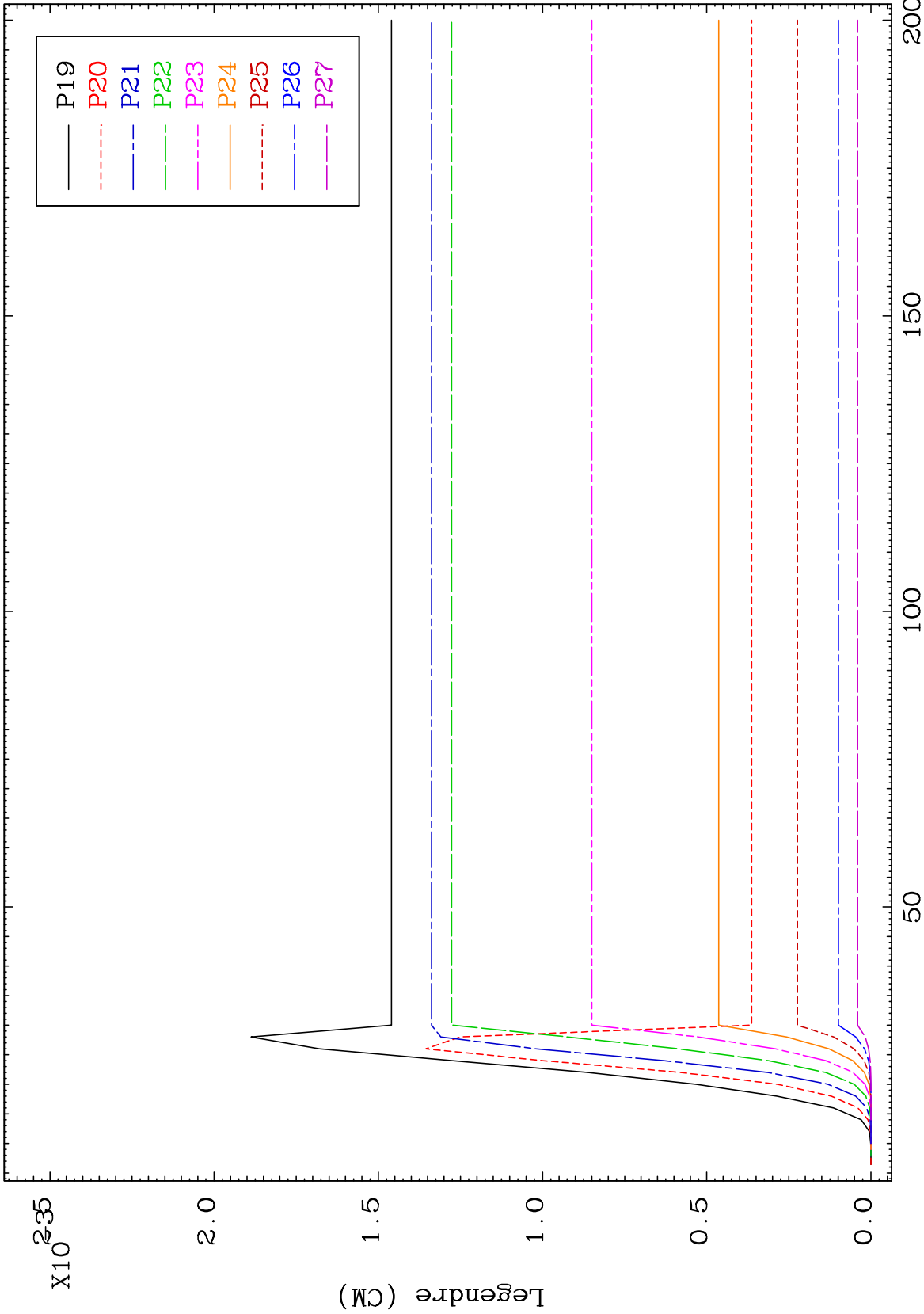
104

79-Au-177

MAT 7865

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

79-Au-177



105

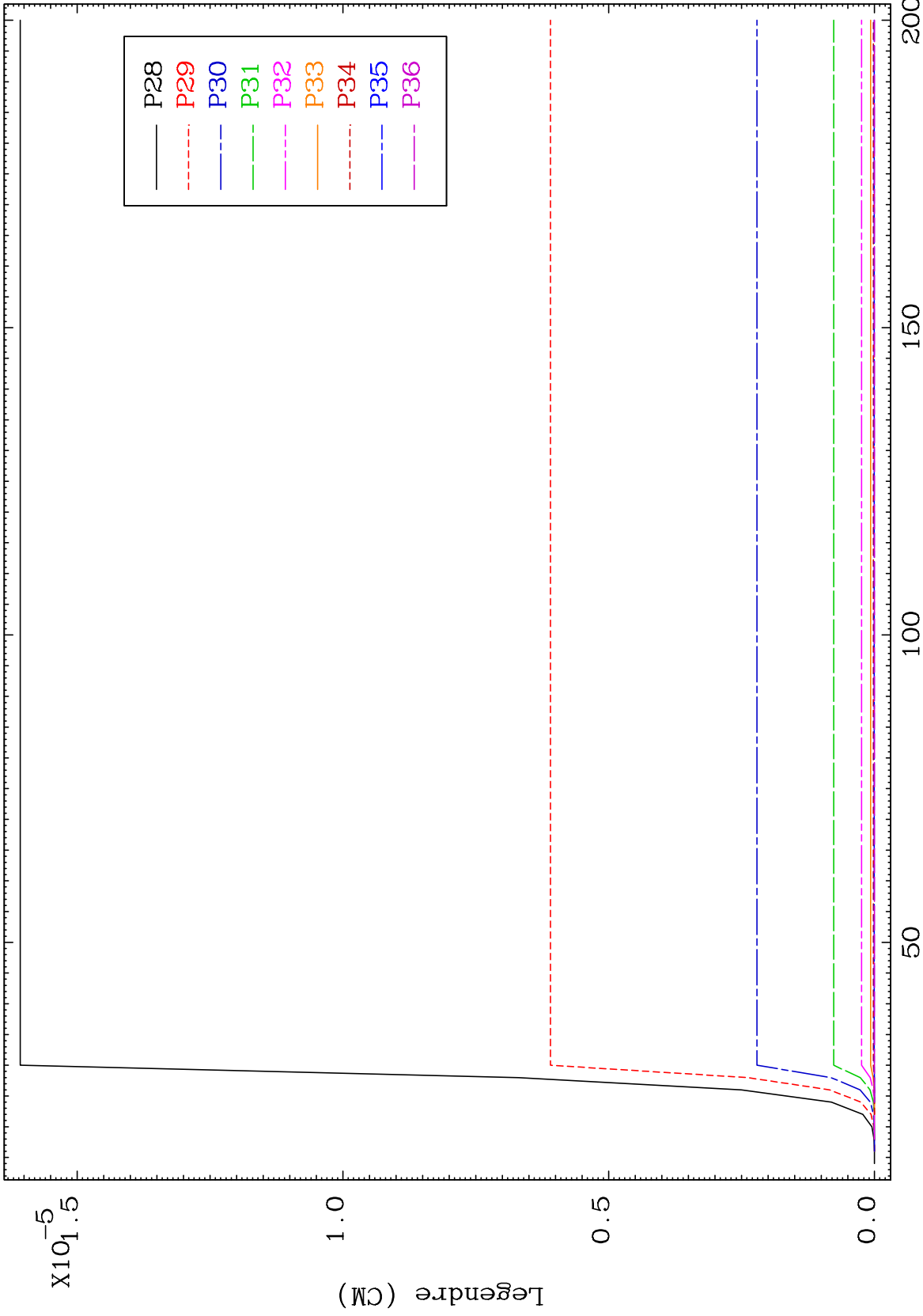
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



106

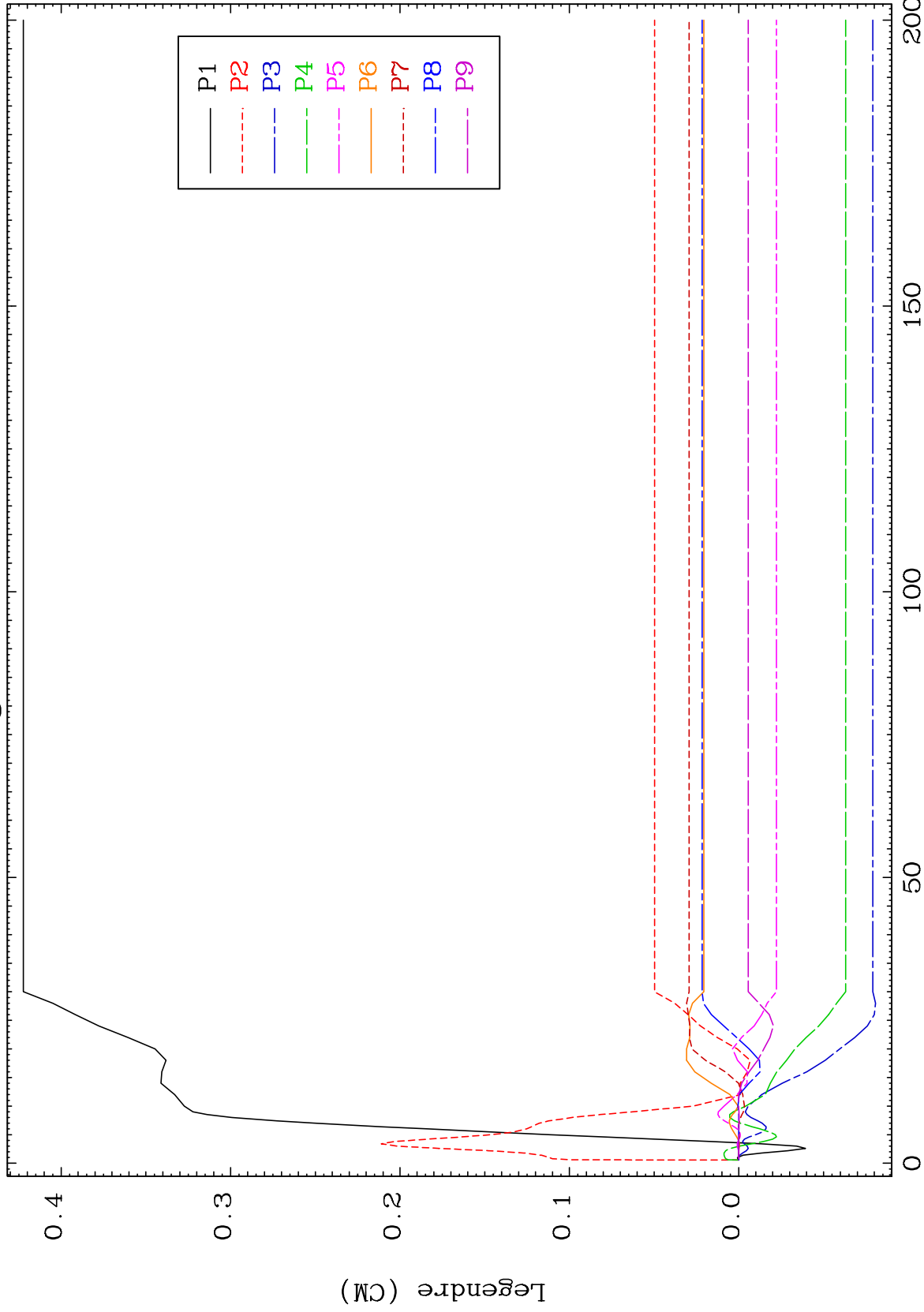
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



107

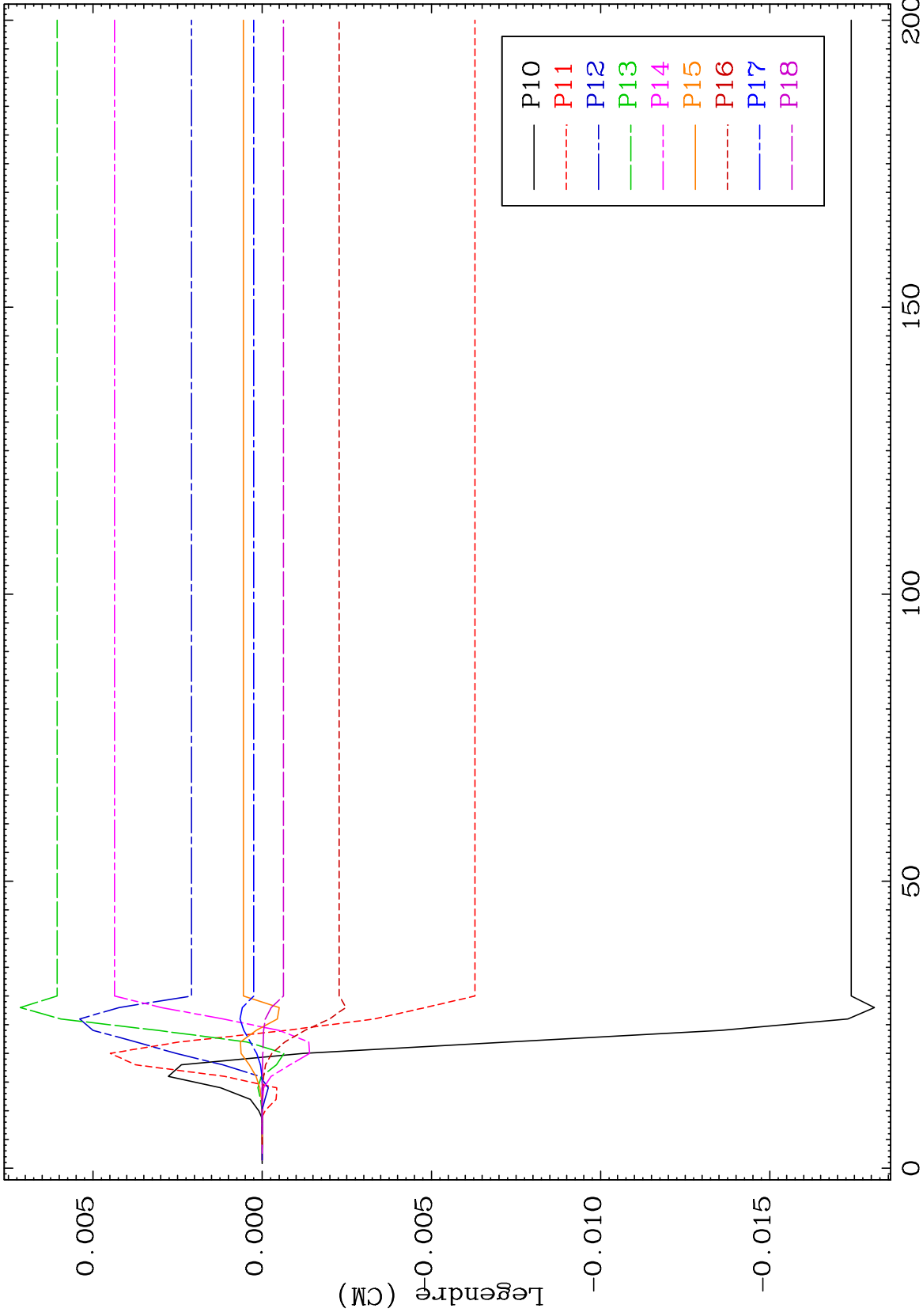
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



108

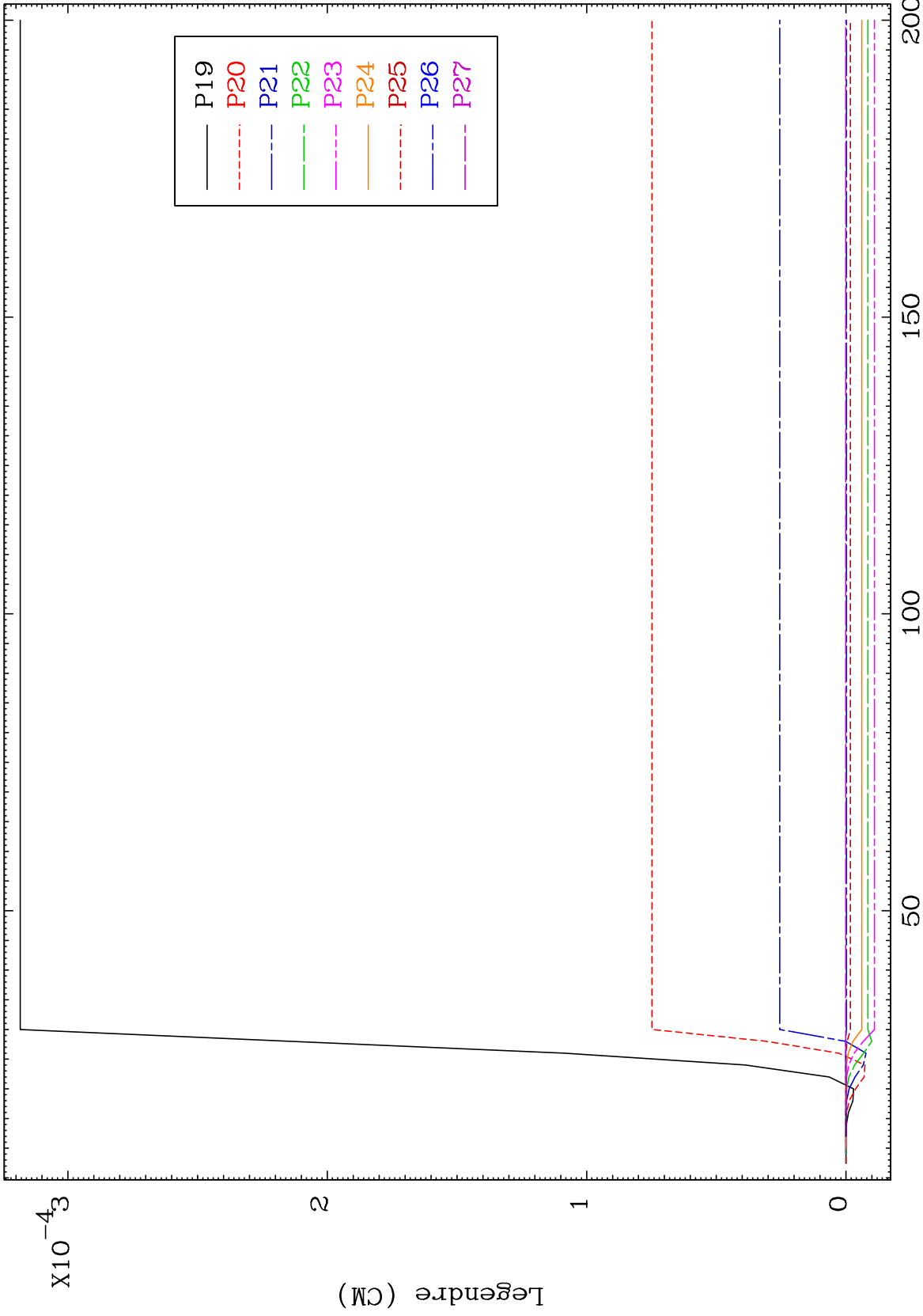
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



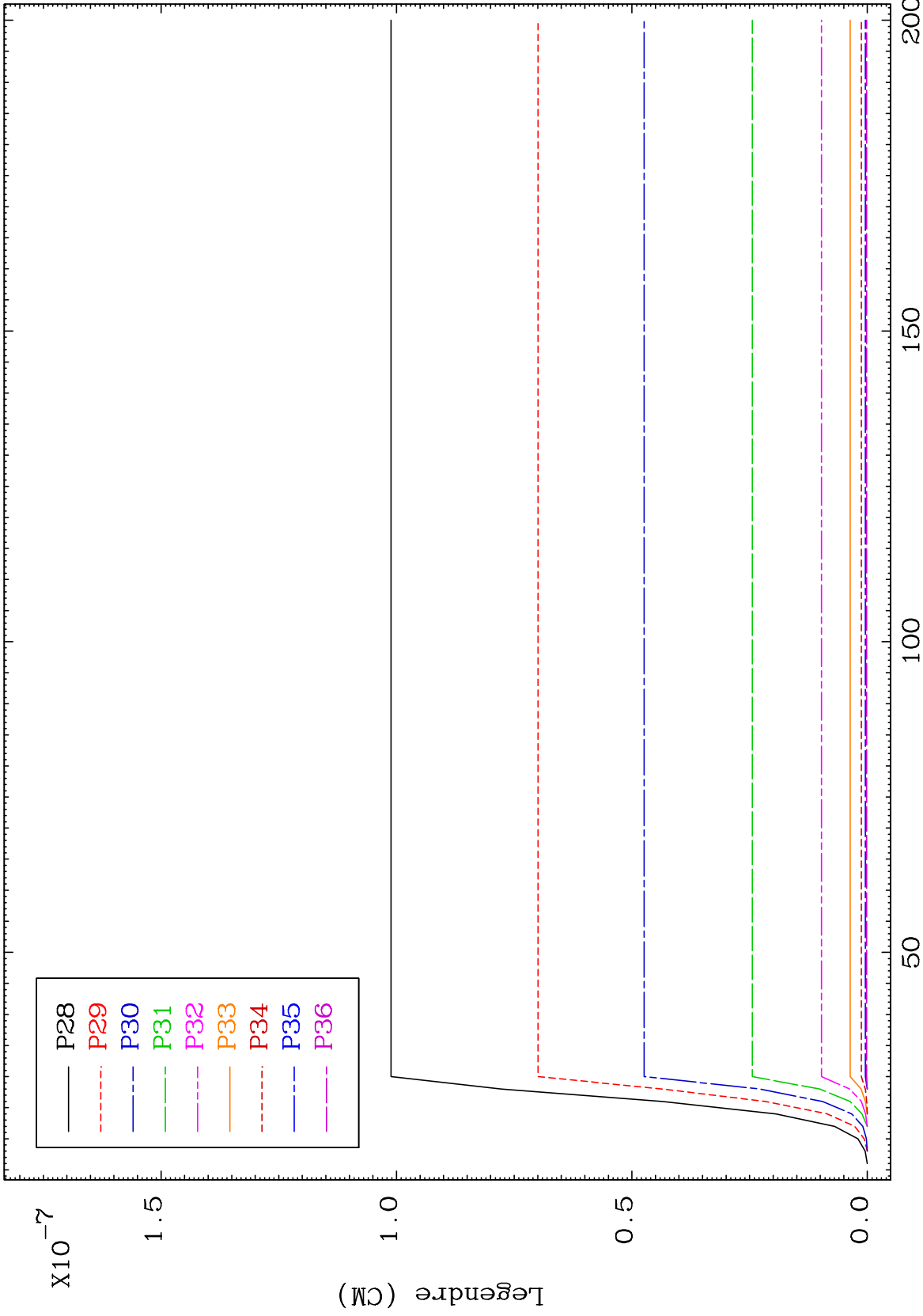
109

79-Au-177

MAT 7865

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

79-Au-177



110

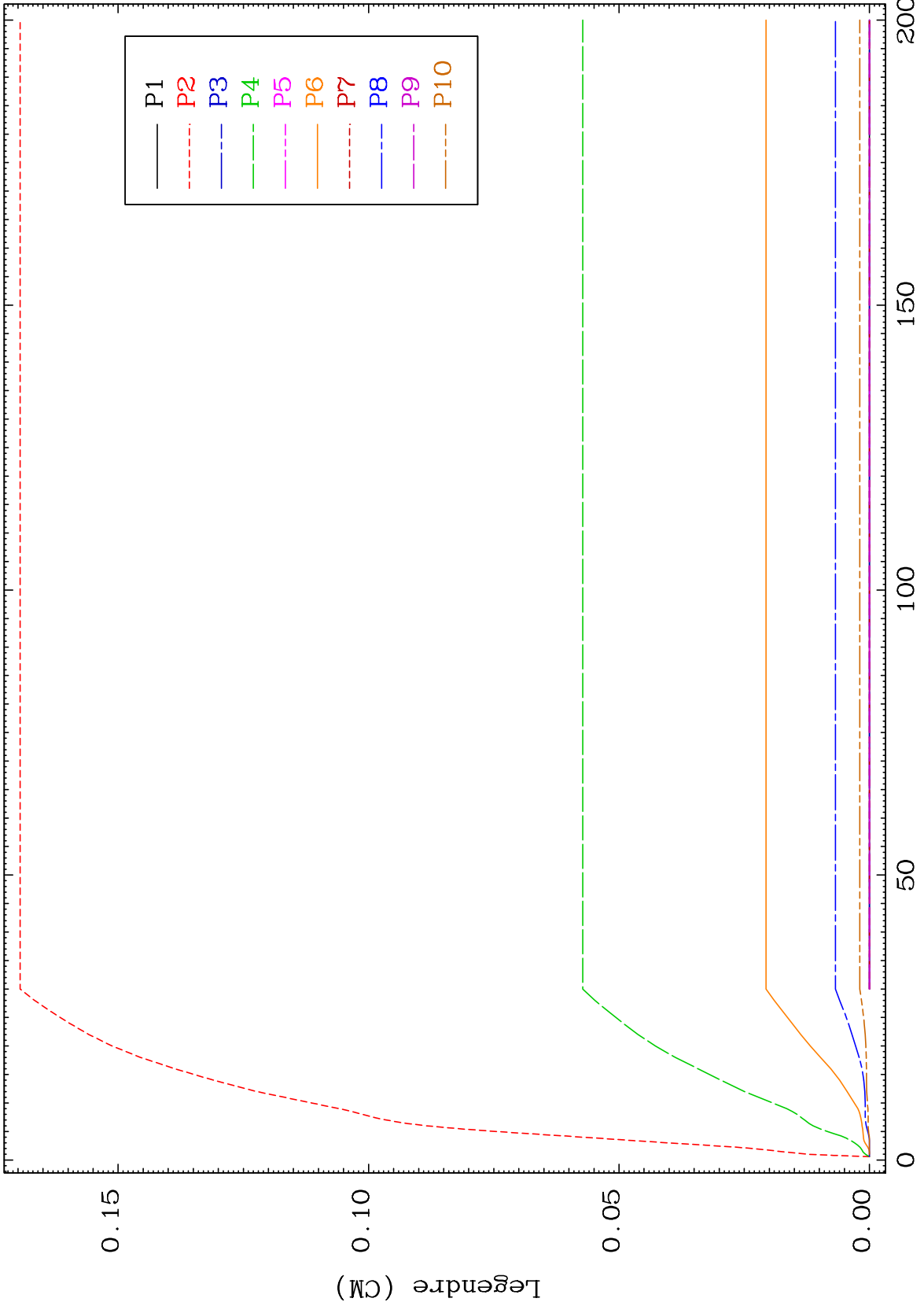
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



111

Incident Energy (MeV)

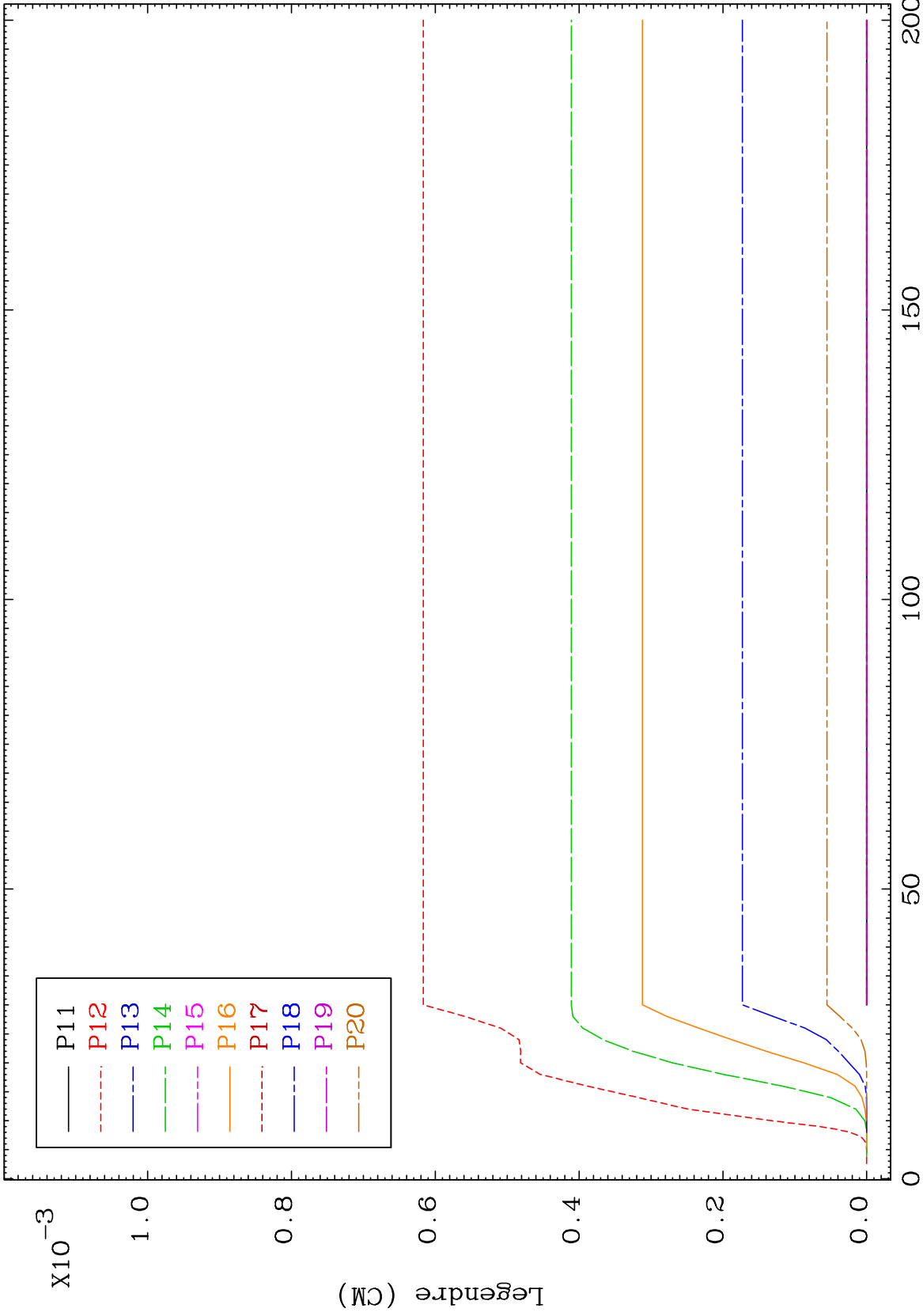
79-Au-177



MAT 7865

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

79-Au-177



112

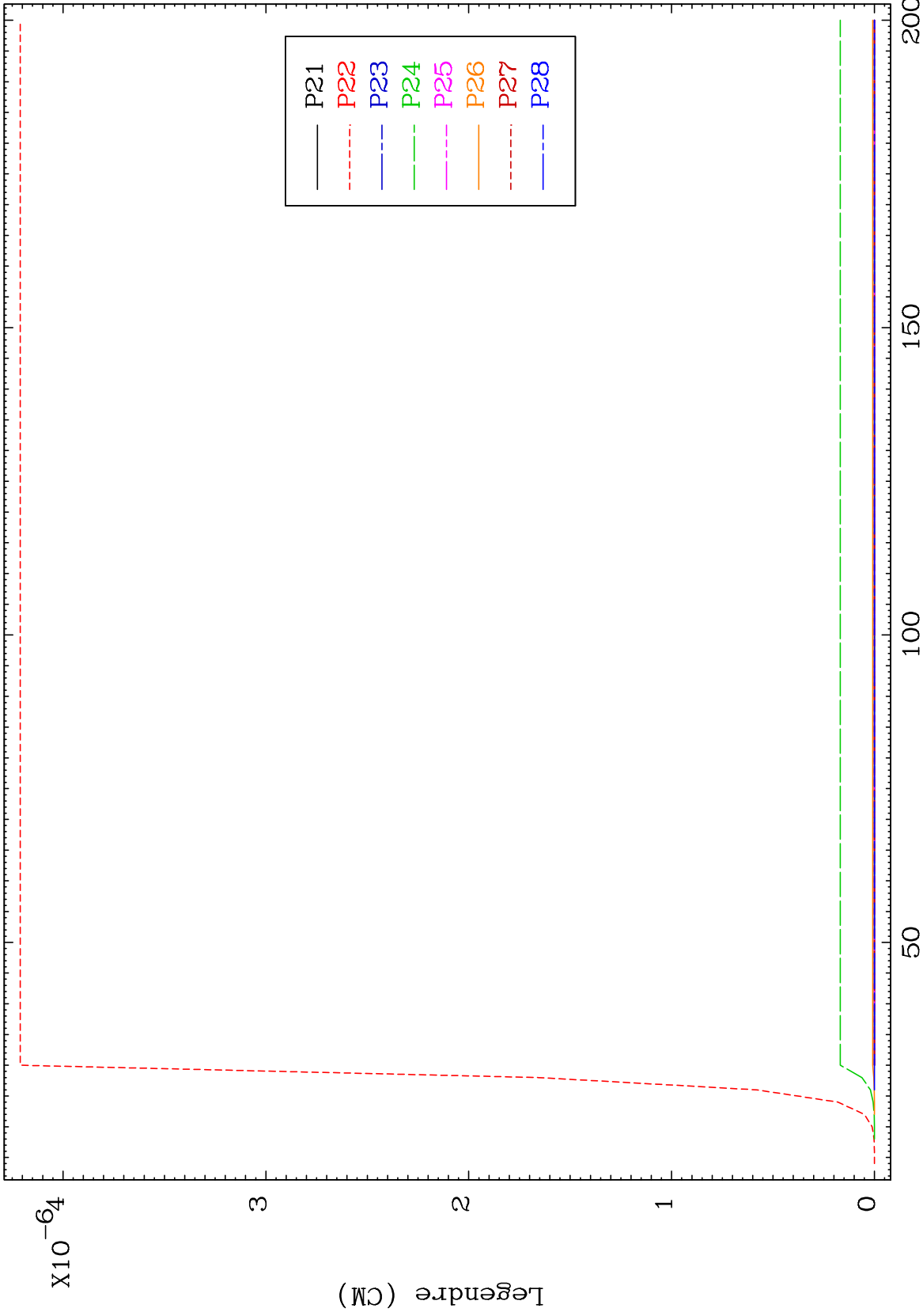
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



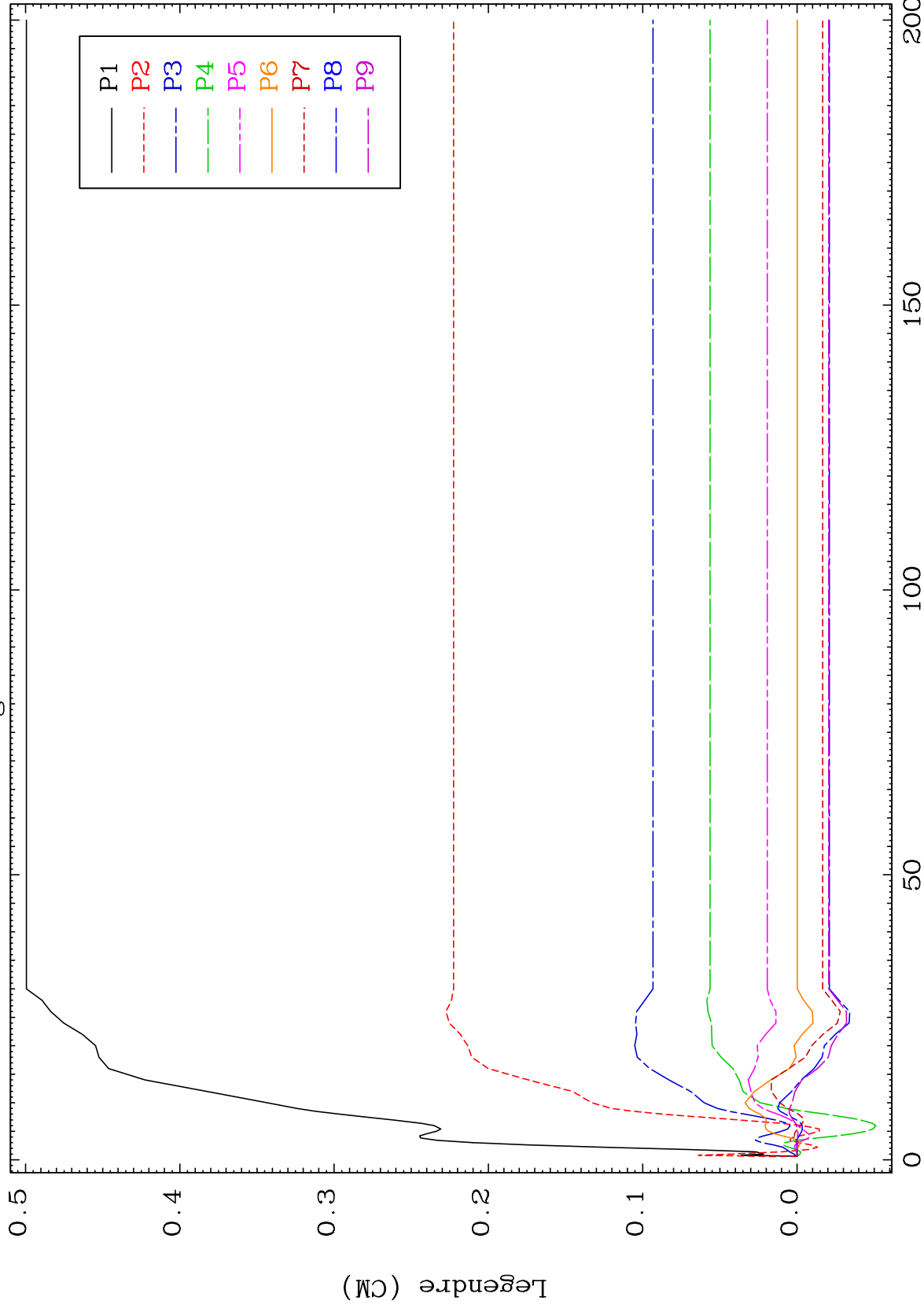
113

79-Au-177

MAT 7865

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

79-Au-177



114

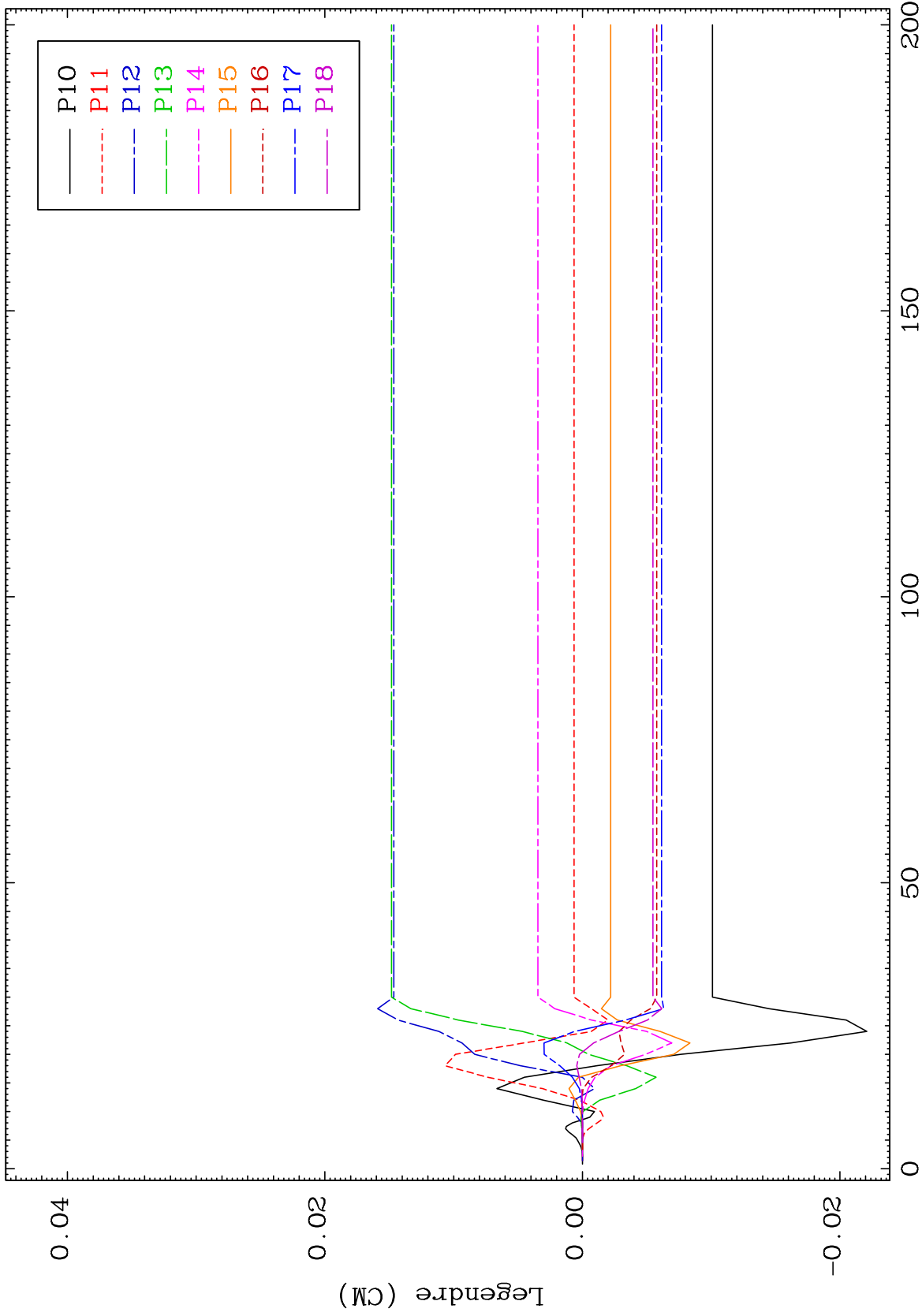
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



115

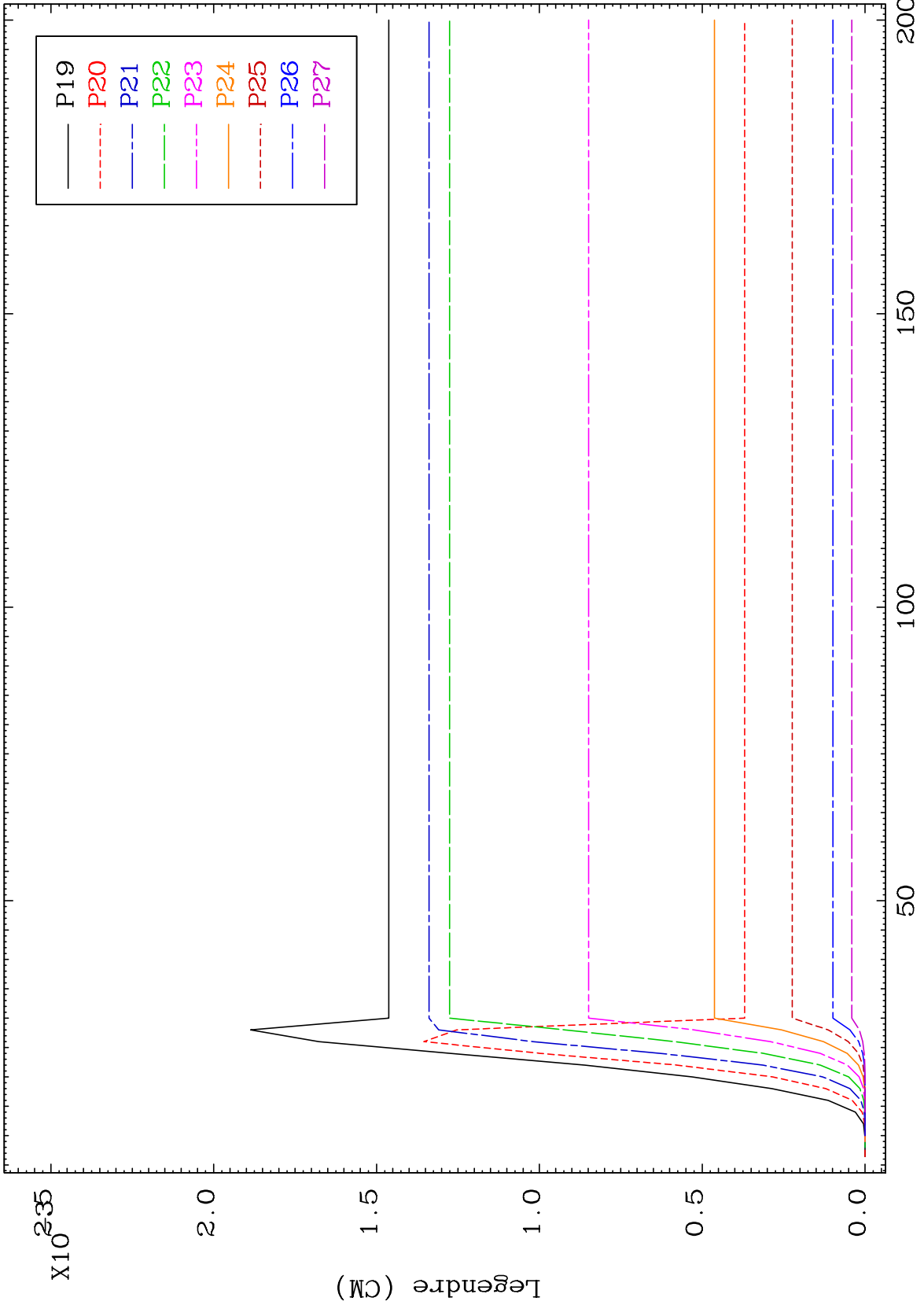
Incident Energy (MeV)

79-Au-177

MAT 7865

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

79-Au-177



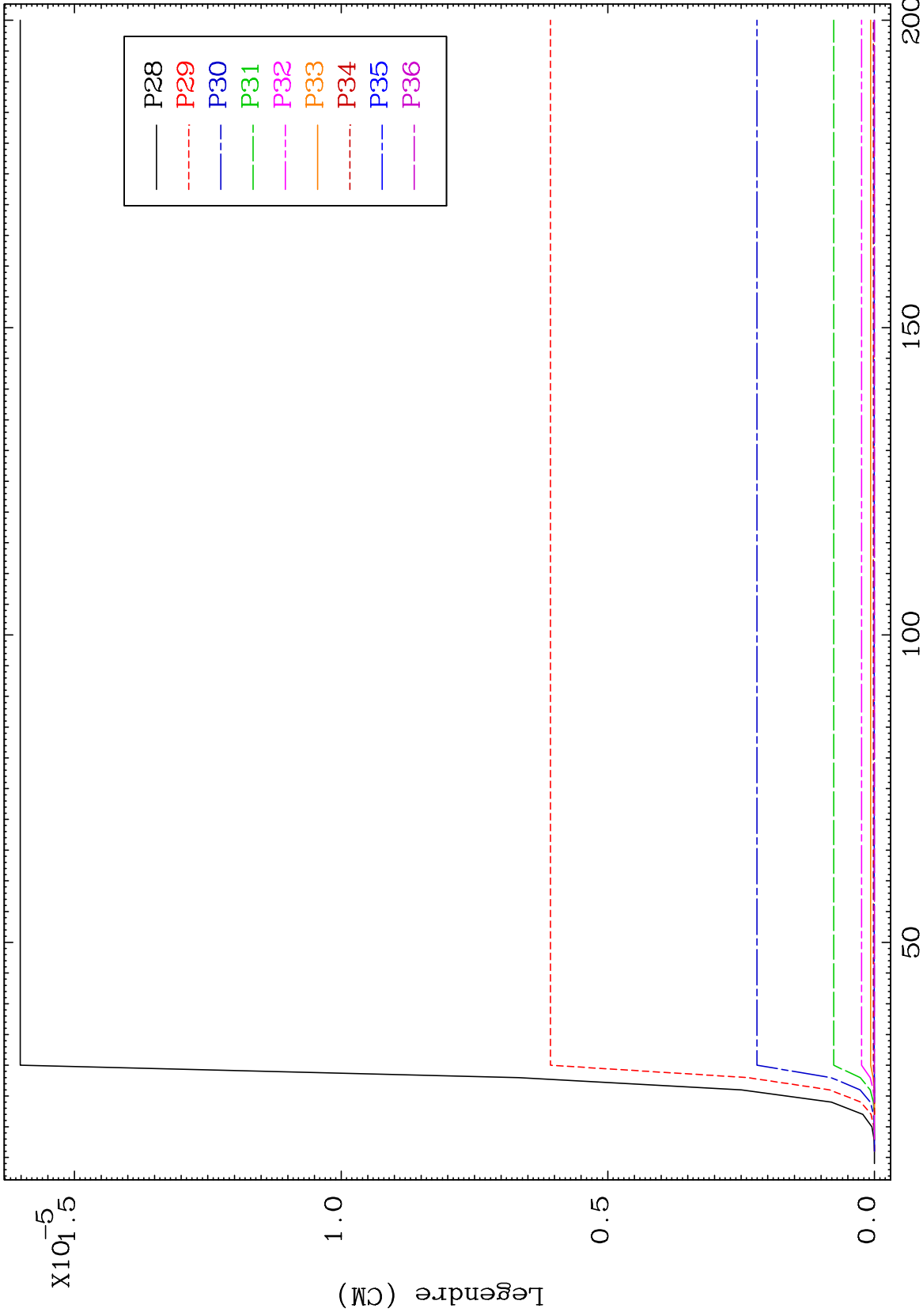
116

79-Au-177

MAT 7865

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

79-Au-177



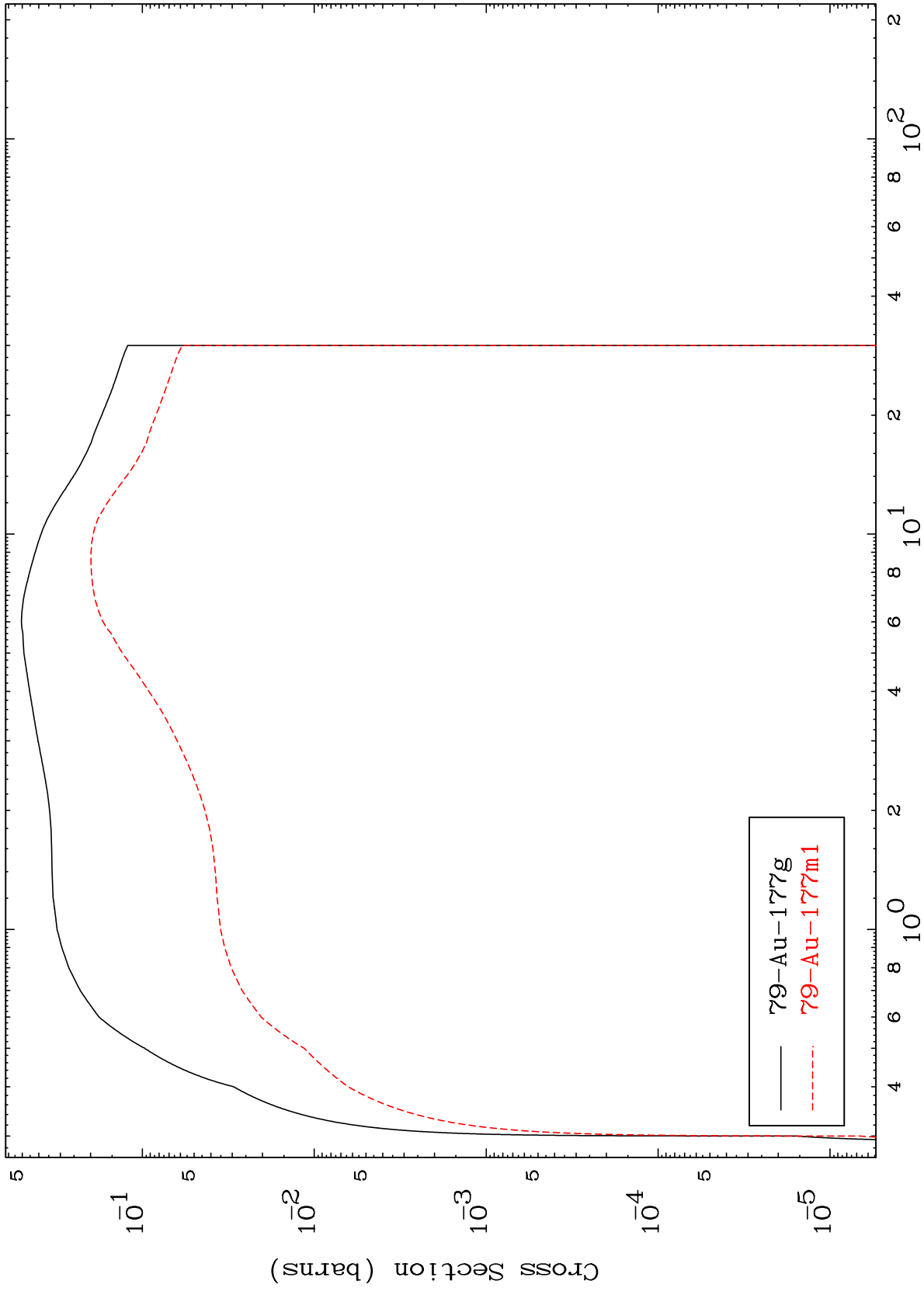
117

79-Au-177

MAT 7865

# Inelastic Radionuclide Production Cross Section

<sup>79</sup>Au-177



118

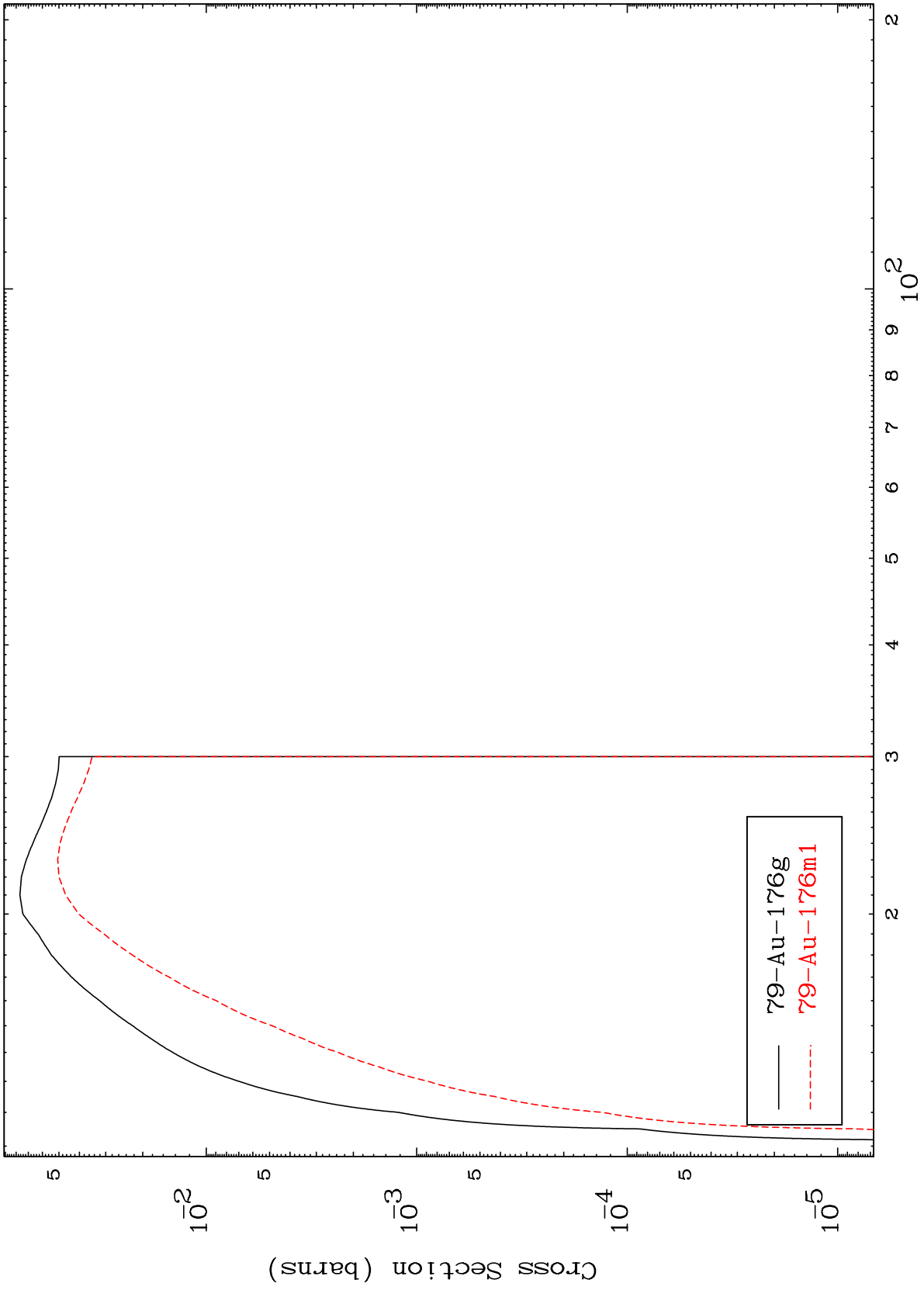
Incident Energy (MeV)

<sup>79</sup>Au-177

MAT 7865

<sup>79</sup>Au-177

(n,2n)  
Radionuclide Production Cross Section



119

Incident Energy (MeV)

<sup>79</sup>Au-177

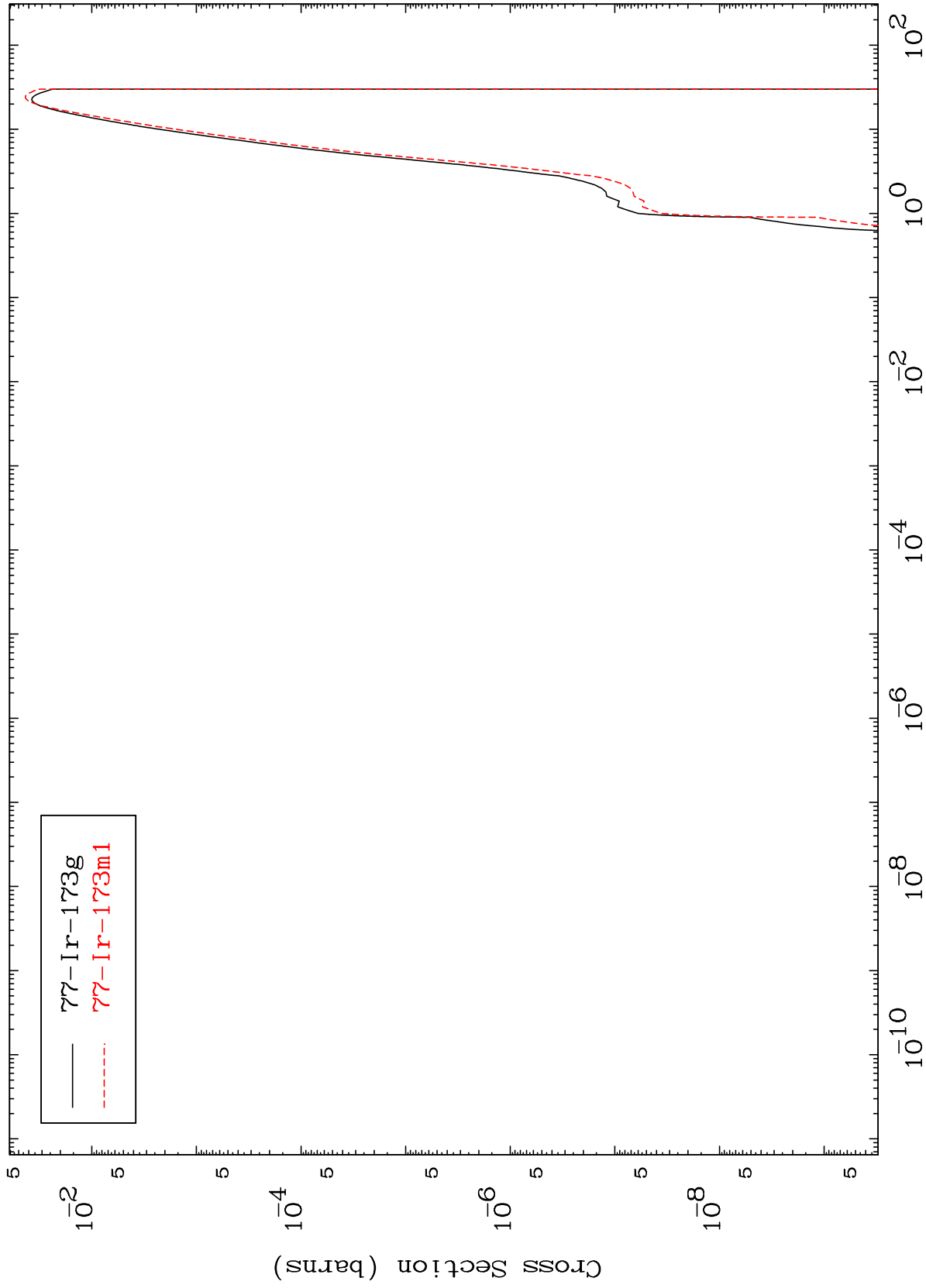


MAT 7865

(n,n')  $\alpha$

79-Au-177

Radionuclide Production Cross Section



120

Incident Energy (MeV)

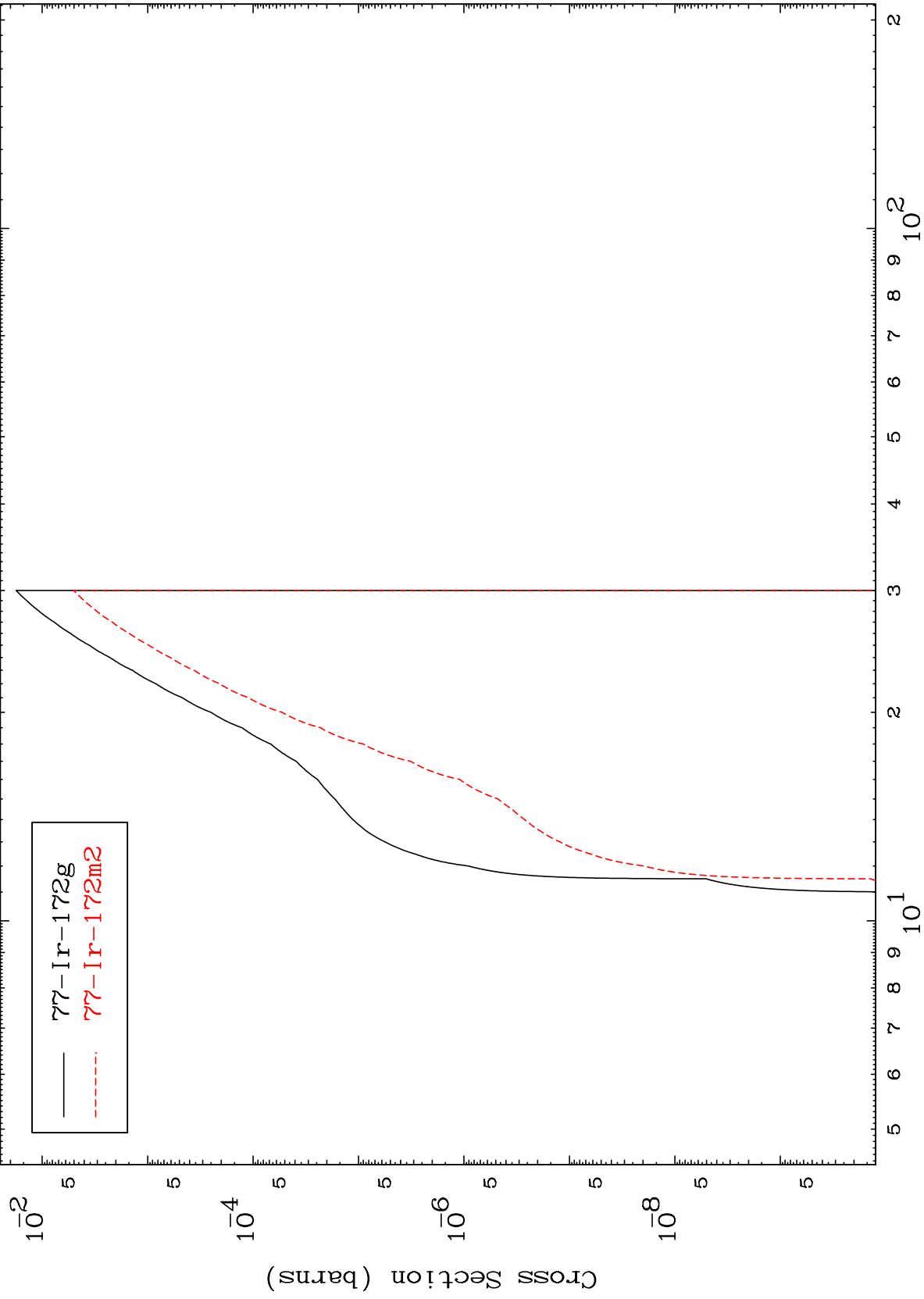
79-Au-177

MAT 7865

$(n, 2n) \alpha$

$^{79}\text{Au-177}$

Radionuclide Production Cross Section



$^{77}\text{Ir-172g}$   
 $^{77}\text{Ir-172m2}$

121

Incident Energy (MeV)

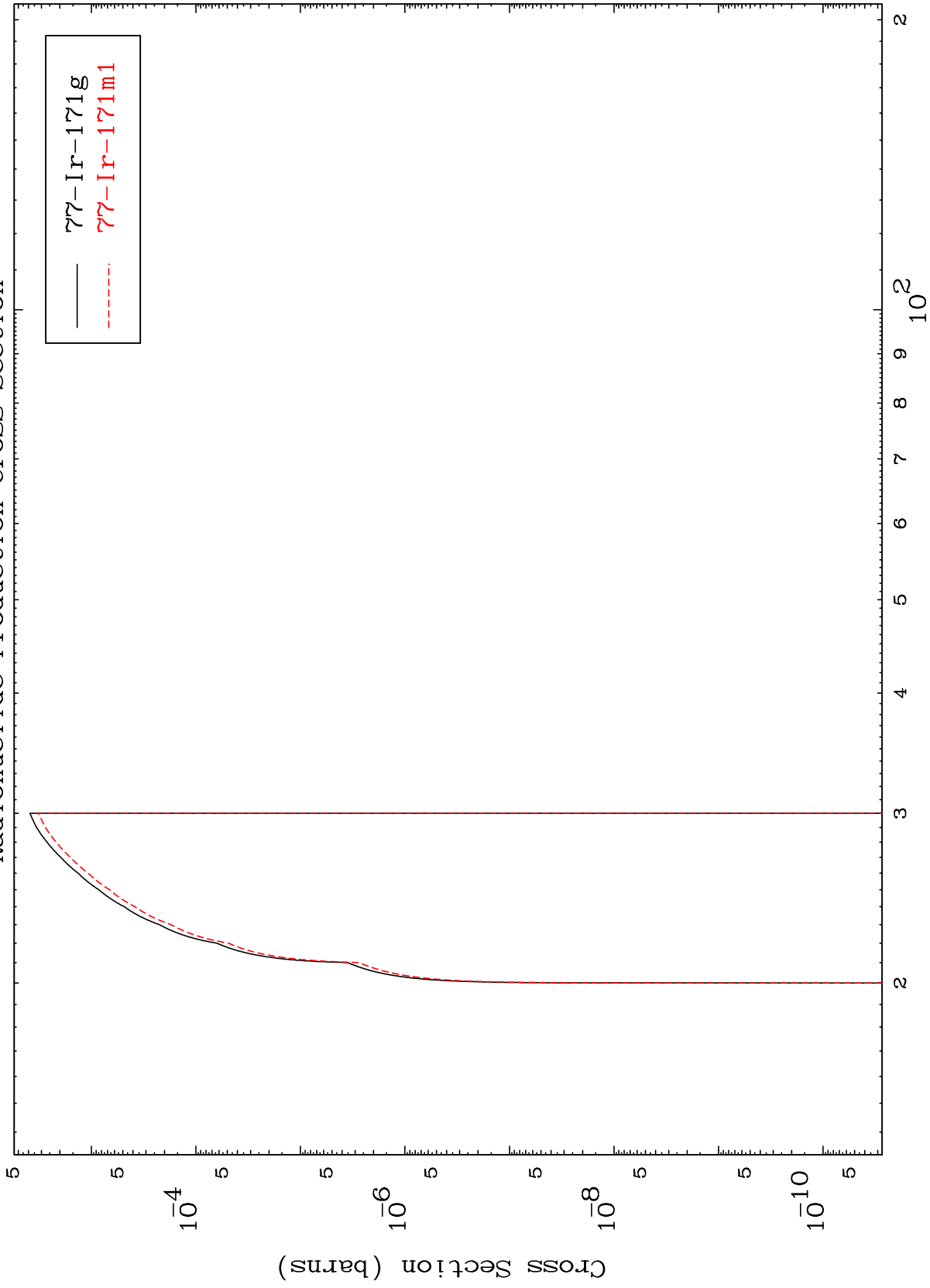
$^{79}\text{Au-177}$

MAT 7865

(n,3n)  $\alpha$

<sup>79</sup>Au-177

Radionuclide Production Cross Section



122

Incident Energy (MeV)

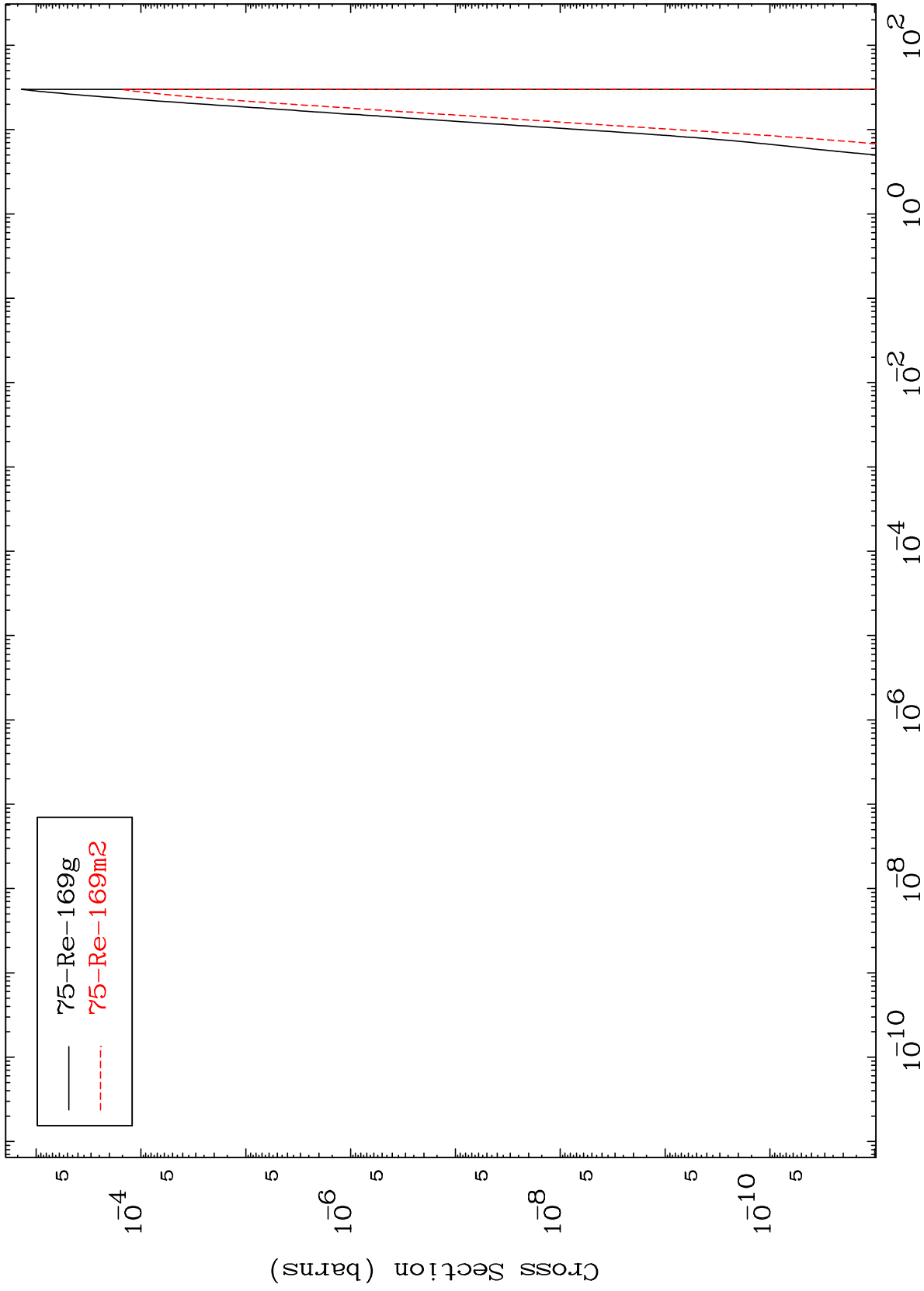
<sup>79</sup>Au-177

MAT 7865

(n,n') 2 $\alpha$

79-Au-177

Radionuclide Production Cross Section



123

Incident Energy (MeV)

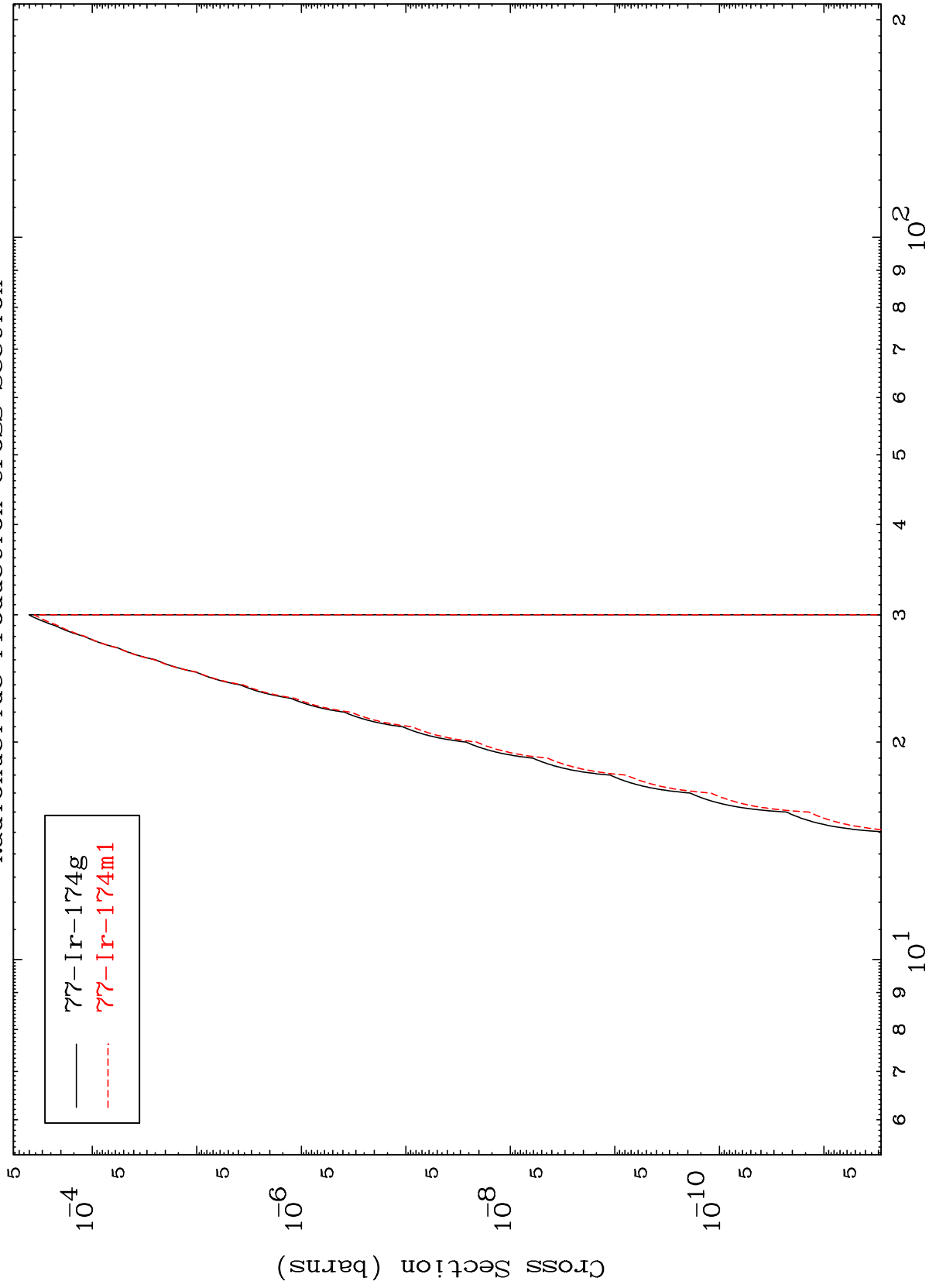
79-Au-177

MAT 7865

(n, n') He-3

79-Au-177

Radionuclide Production Cross Section



124

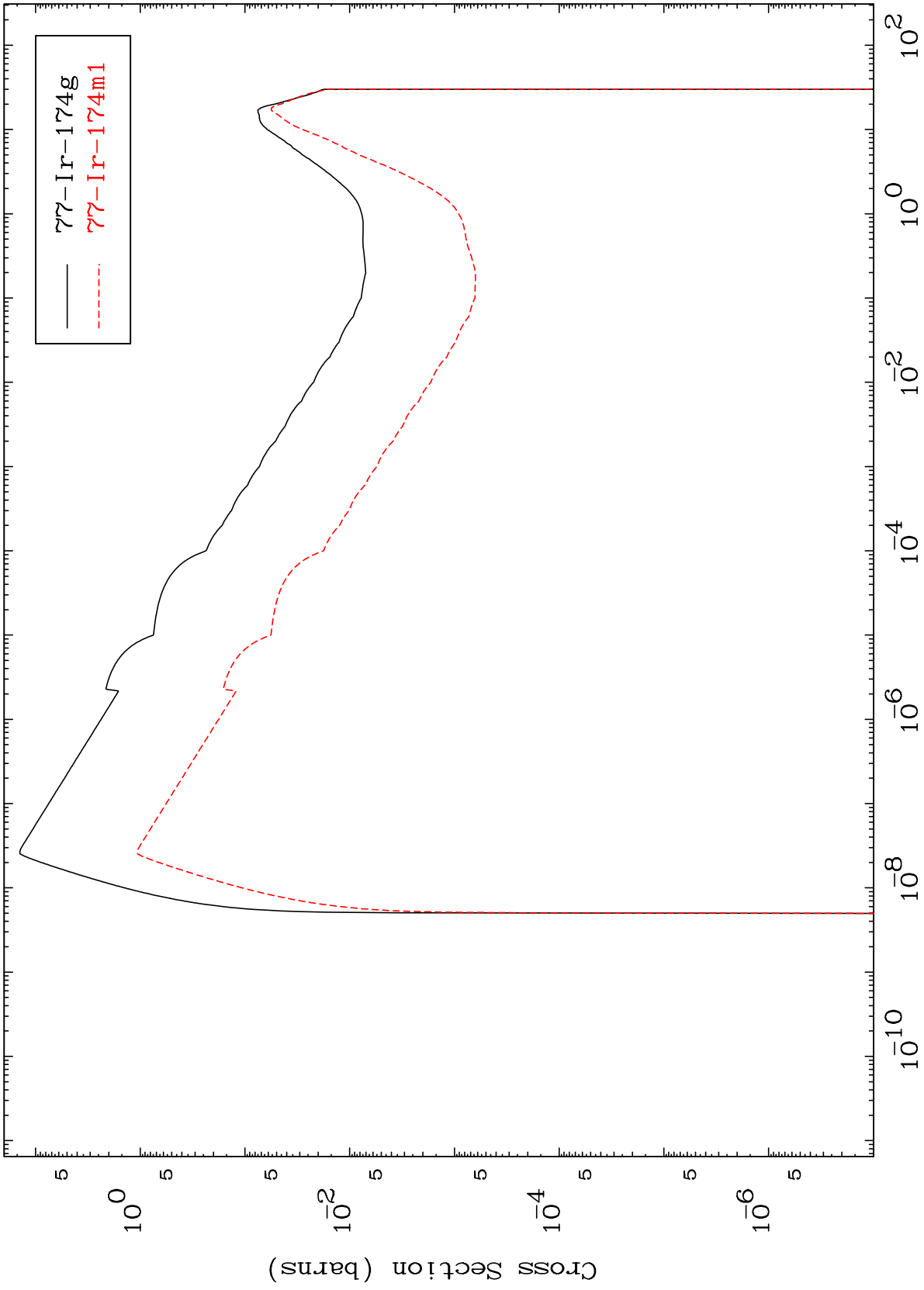
Incident Energy (MeV)

79-Au-177

MAT 7865

79-Au-177

$(n, \alpha)$   
Radionuclide Production Cross Section



125

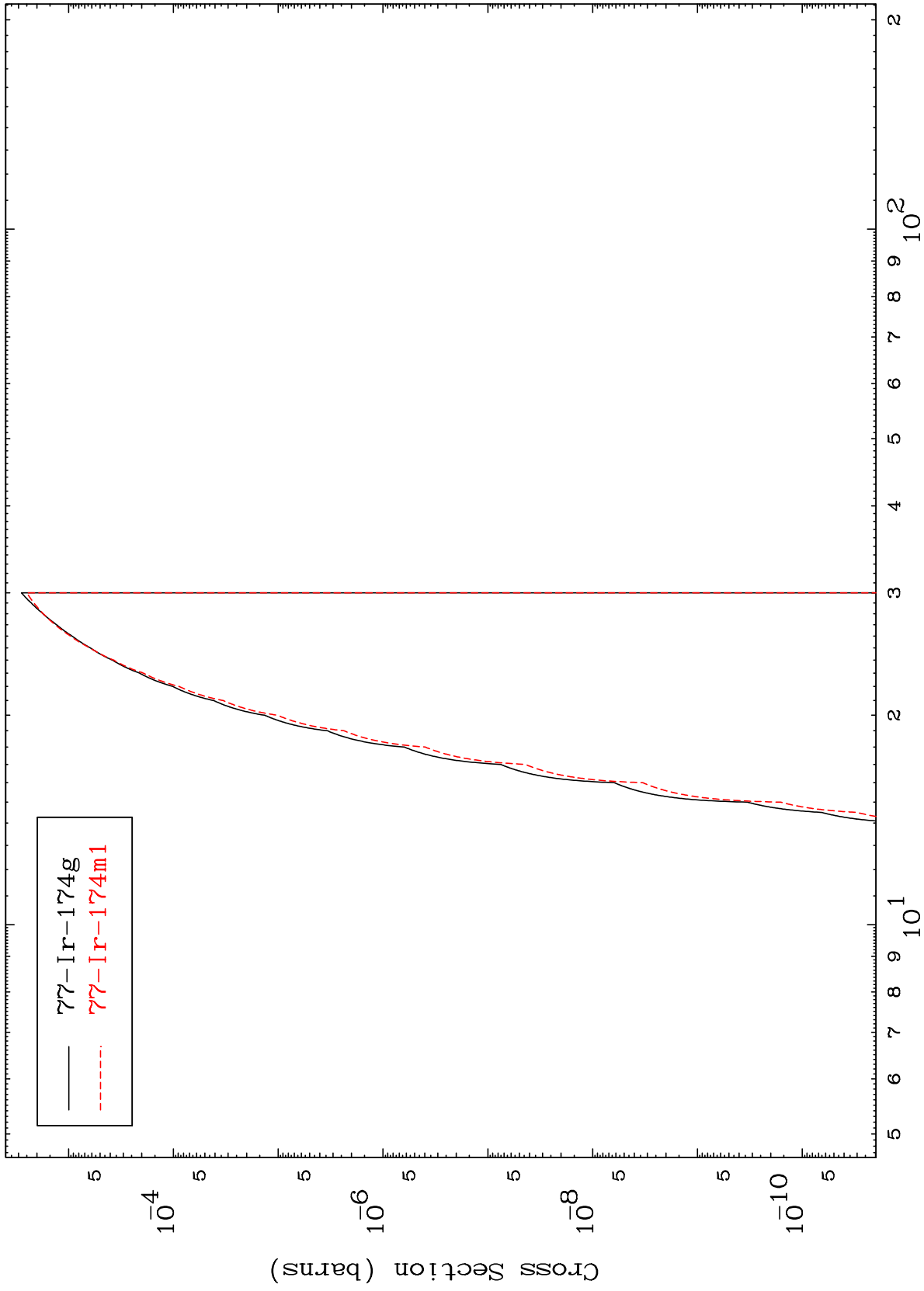
79-Au-177

MAT 7865

(n,p) t

<sup>79</sup>Au-177

Radionuclide Production Cross Section



126

Incident Energy (MeV)

<sup>79</sup>Au-177