

Program EVALPLOT  
(Version 2018-1)

by

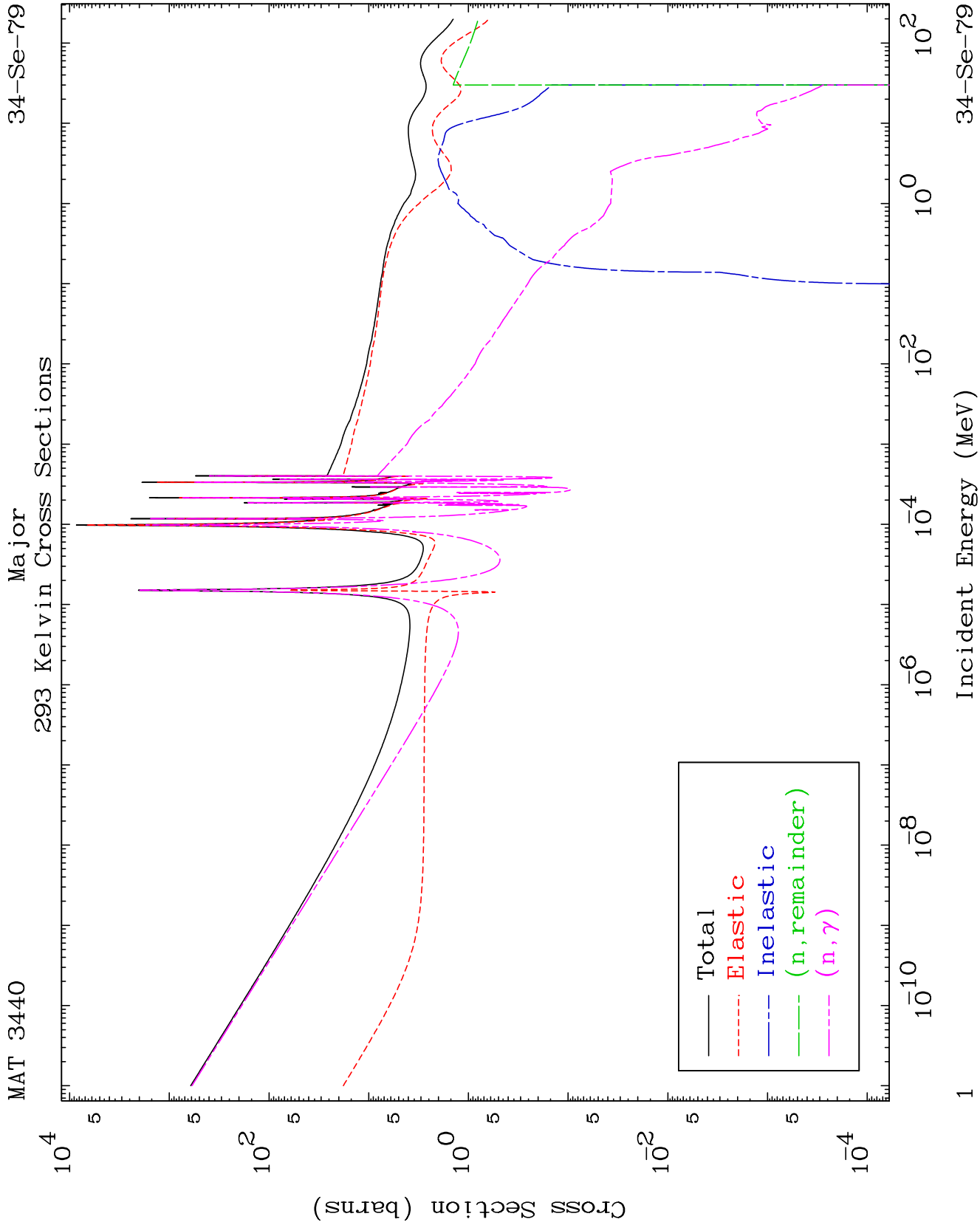
Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
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Livermore, CA 94550  
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Tele: 925-443-1911

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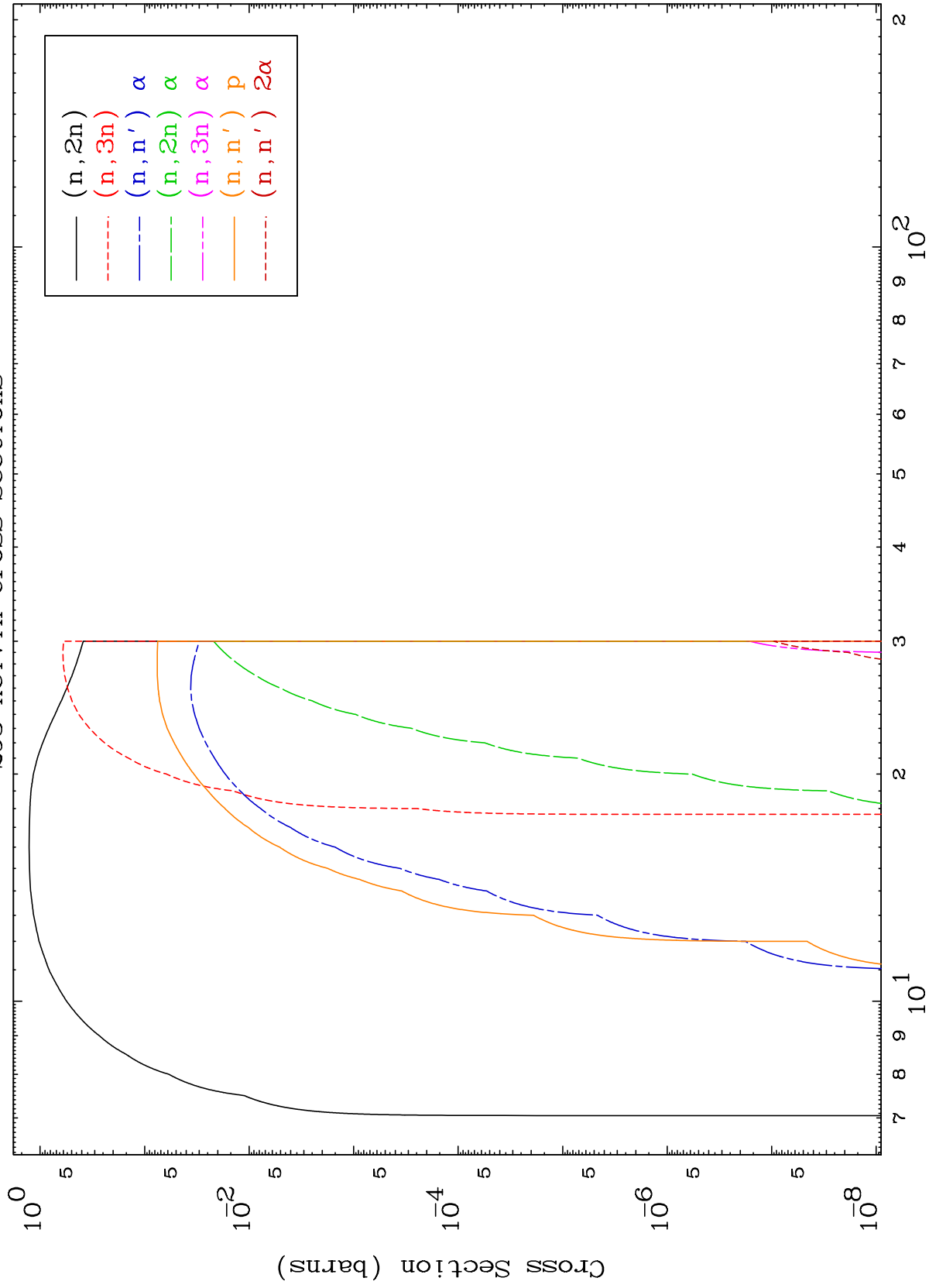
Press Mouse Button to Start



MAT 3440

Neutron Production  
293 Kelvin Cross Sections

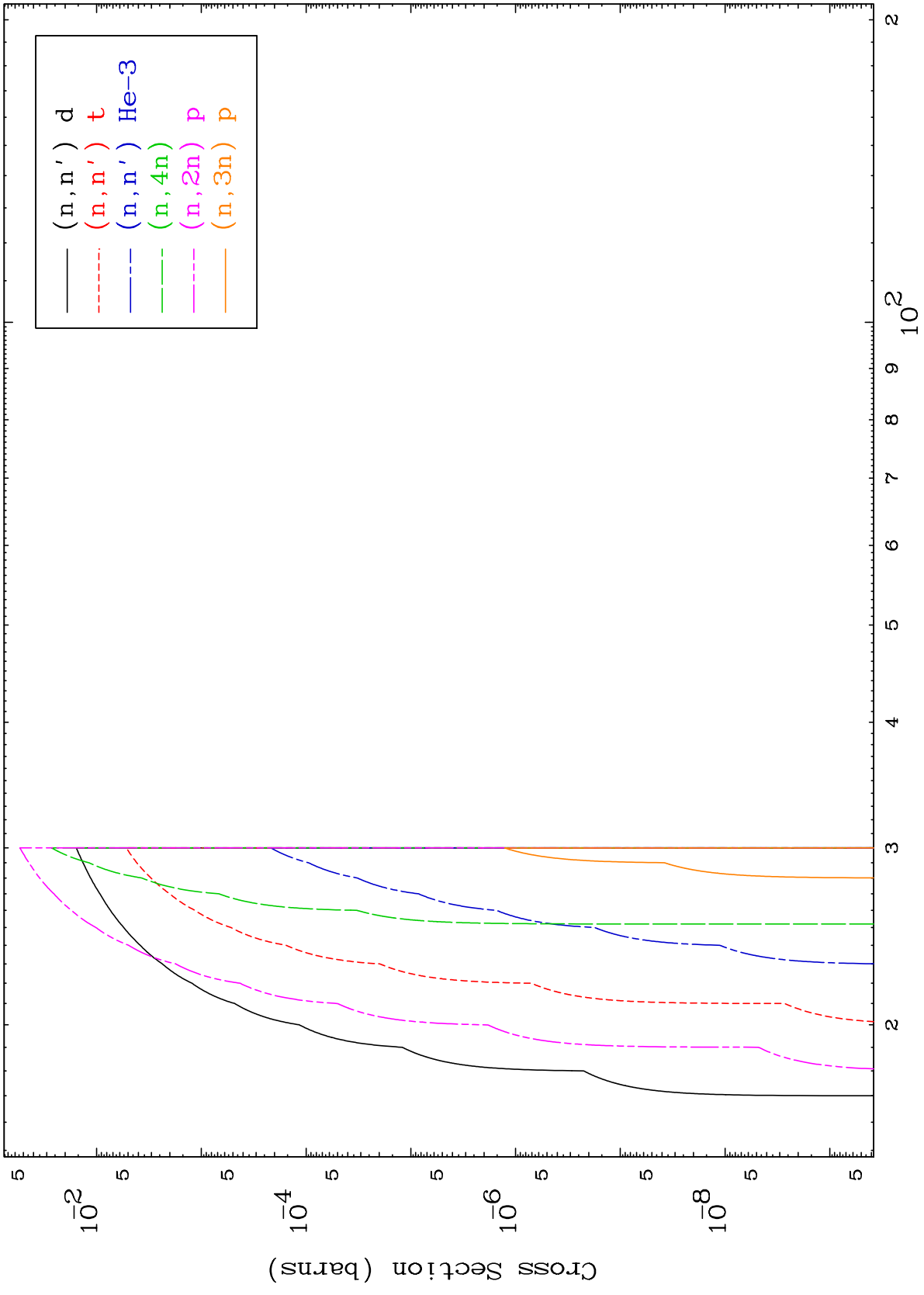
34-Se-79



2

Incident Energy (MeV)

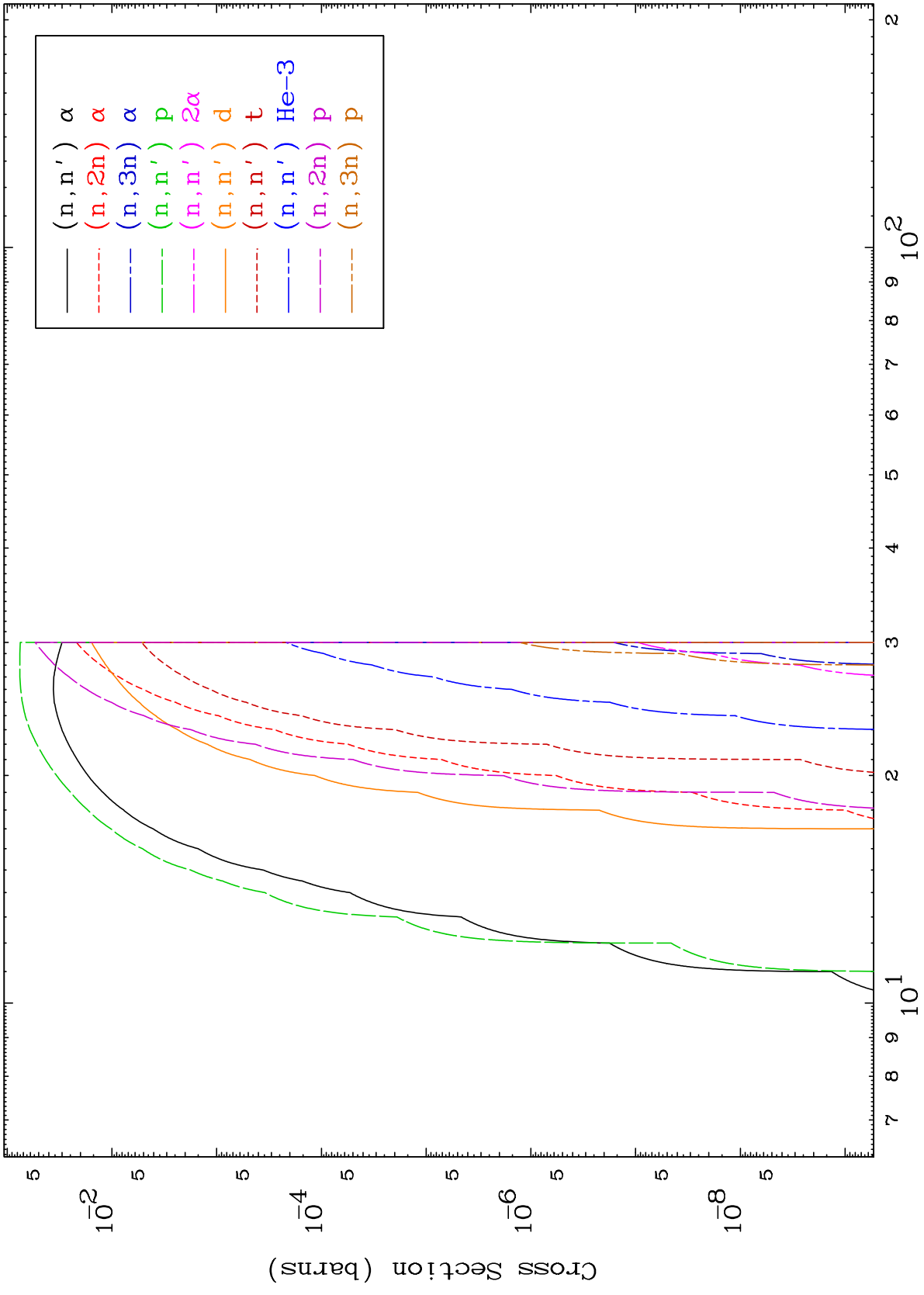
34-Se-79



MAT 3440

Charged Particle  
293 Kelvin Cross Sections

34-Se-79

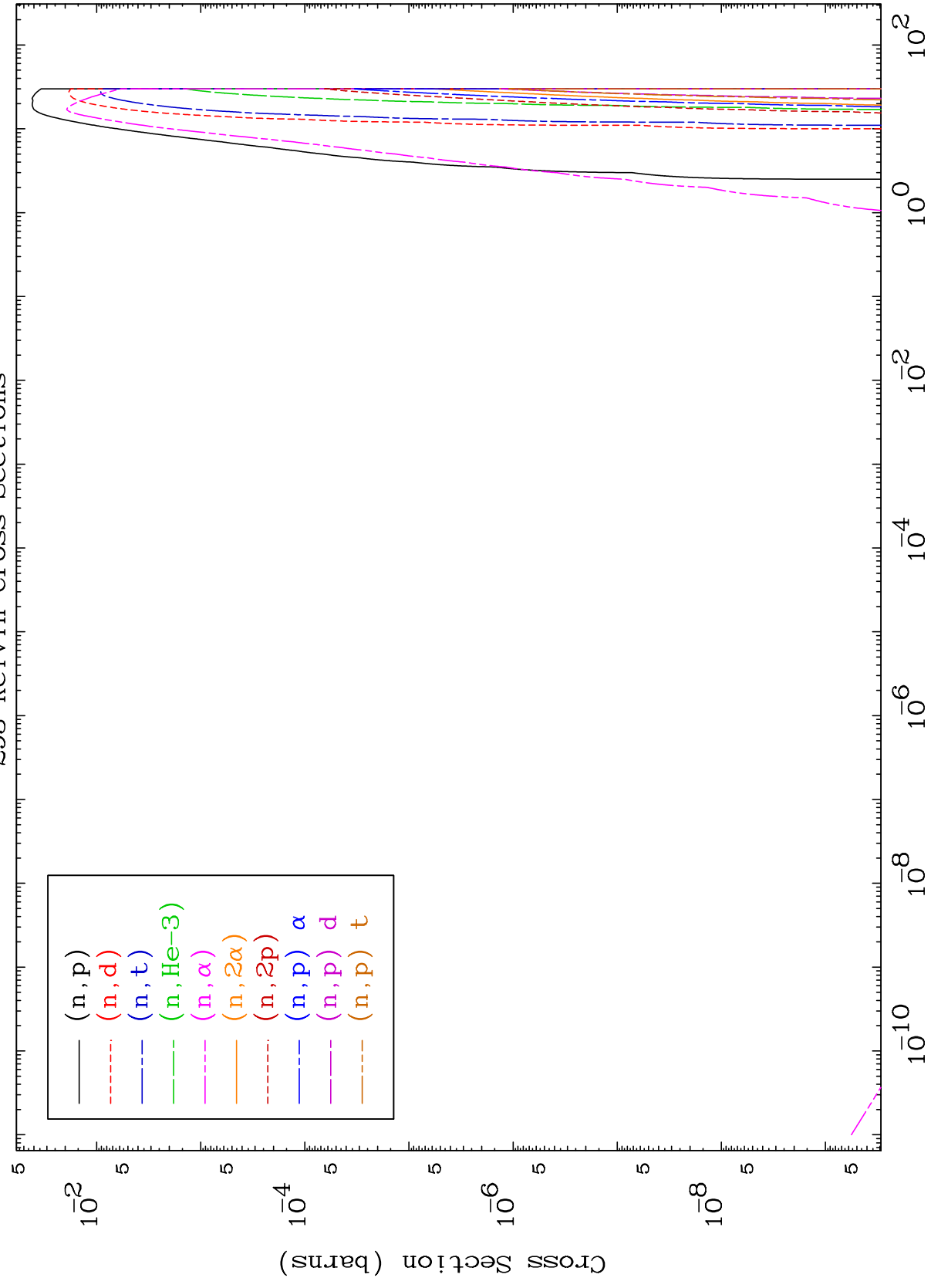


34-Se-79

MAT 3440

Charged Particle  
293 Kelvin Cross Sections

34-Se-79



5

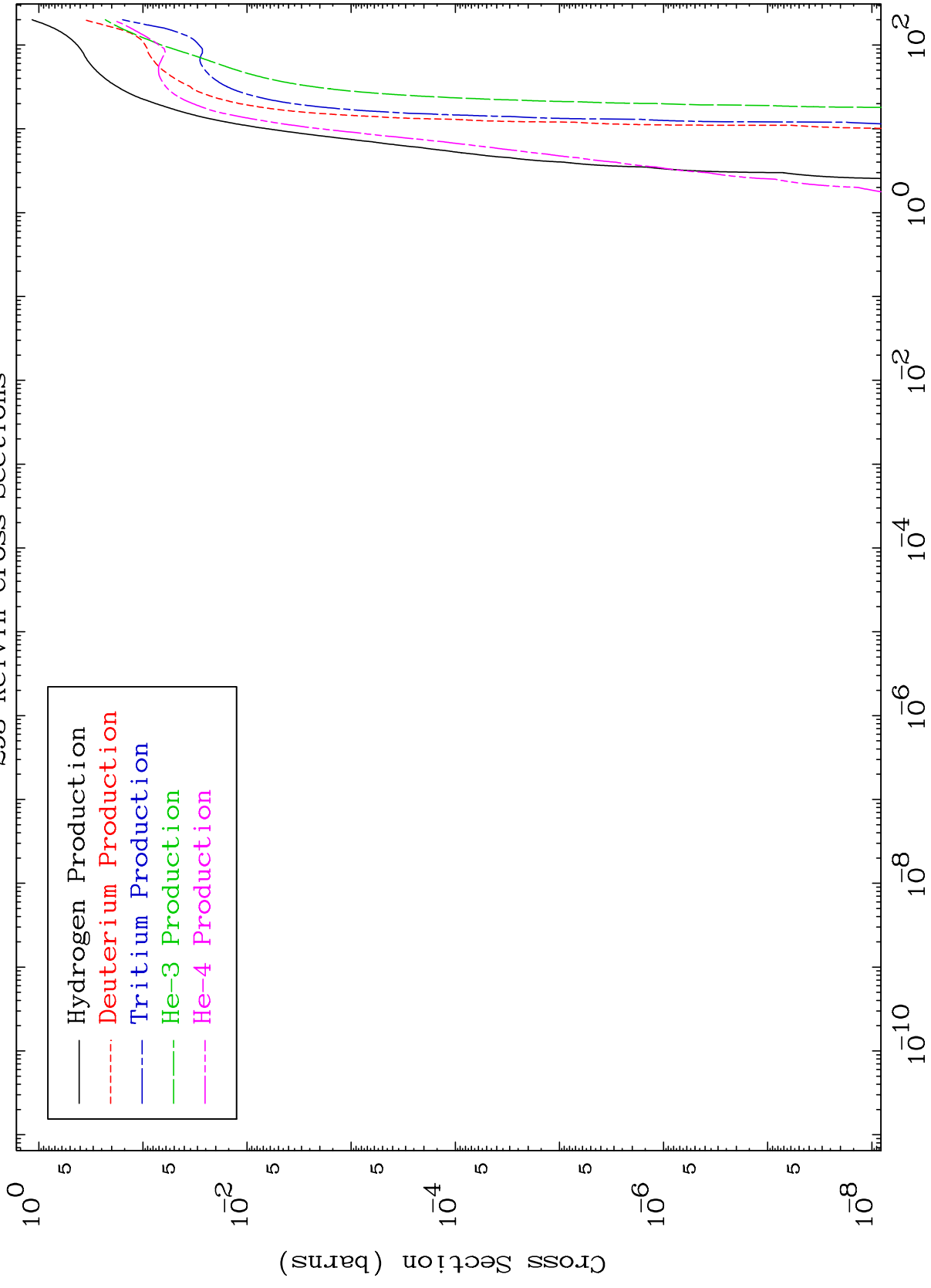
Incident Energy (MeV)

34-Se-79

MAT 3440

Particle Production  
293 Kelvin Cross Sections

34-Se-79



6

Incident Energy (MeV)

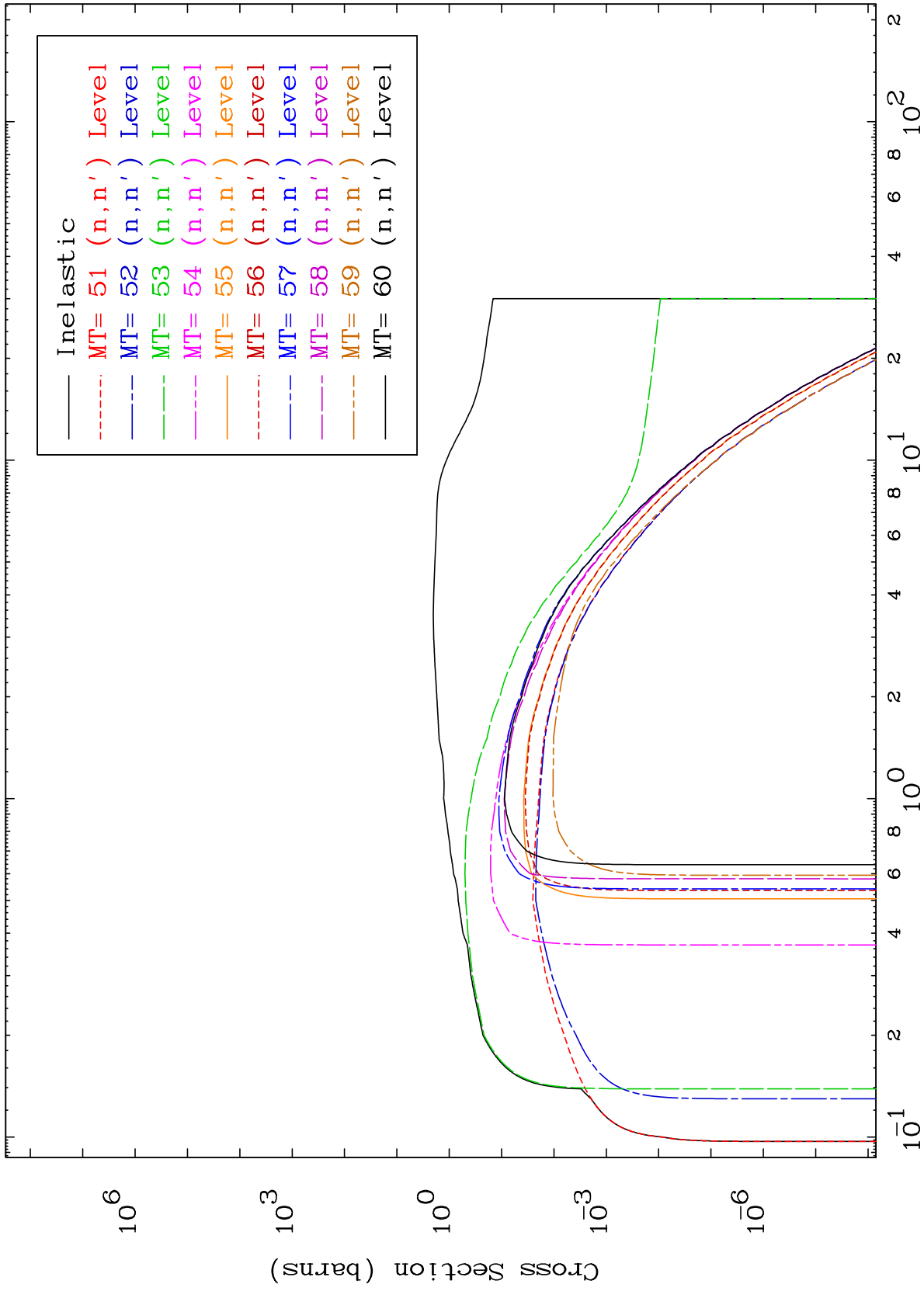
34-Se-79

MAT 3440

(n,n') Level

34-Se-79

293 Kelvin Cross Sections



Incident Energy (MeV)

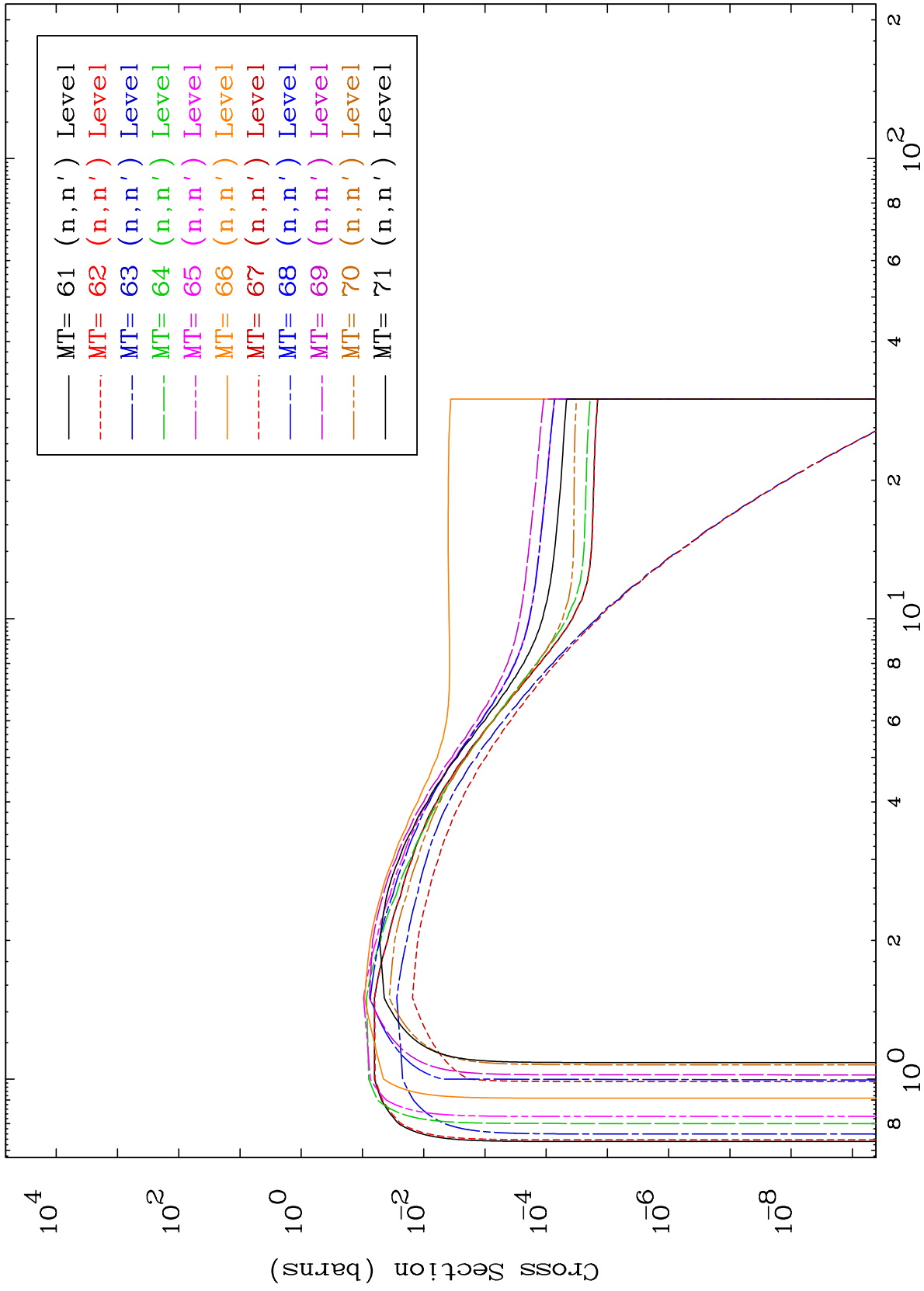
34-Se-79

MAT 3440

(n,n') Level

34-Se-79

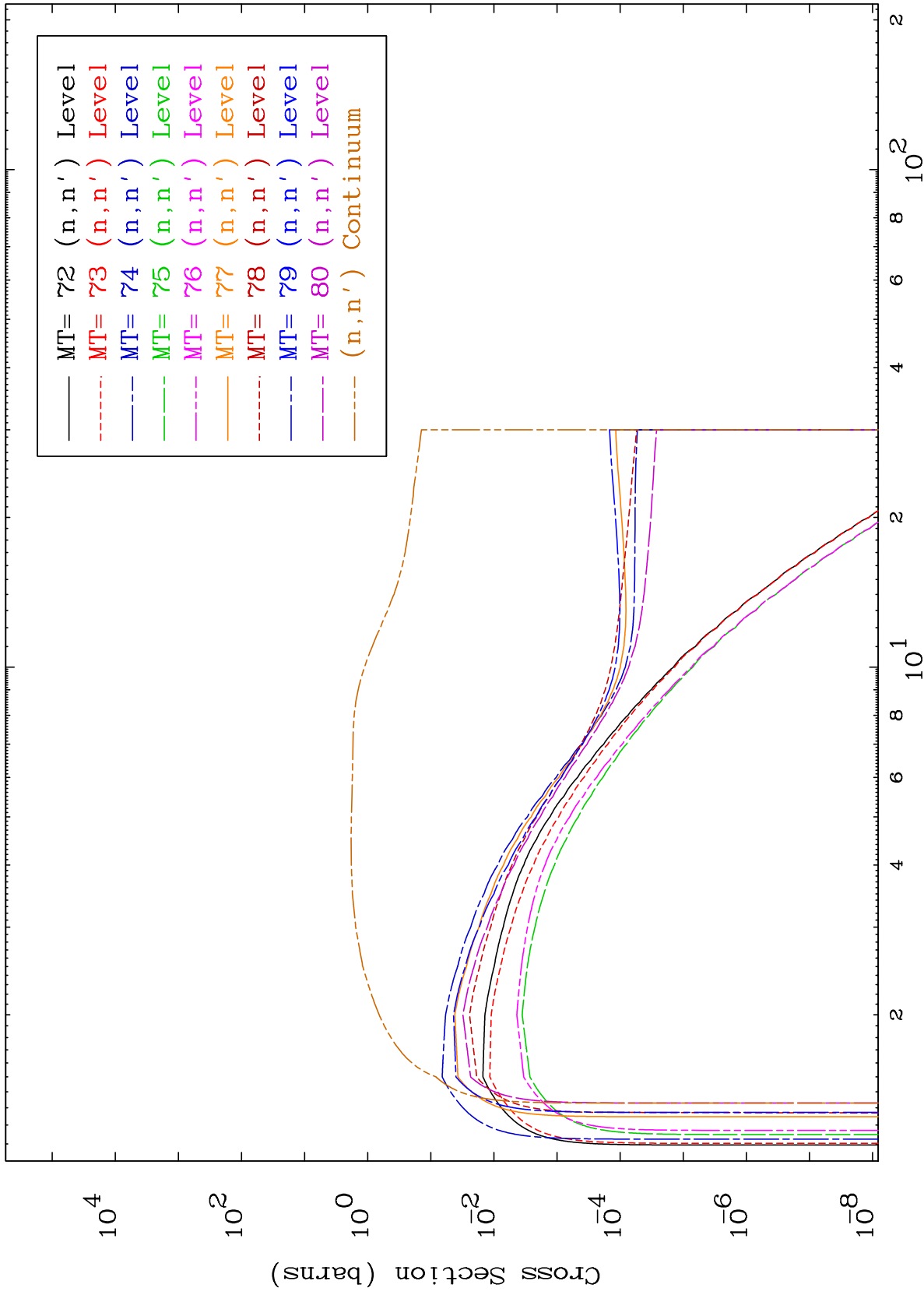
293 Kelvin Cross Sections



8

Incident Energy (MeV)

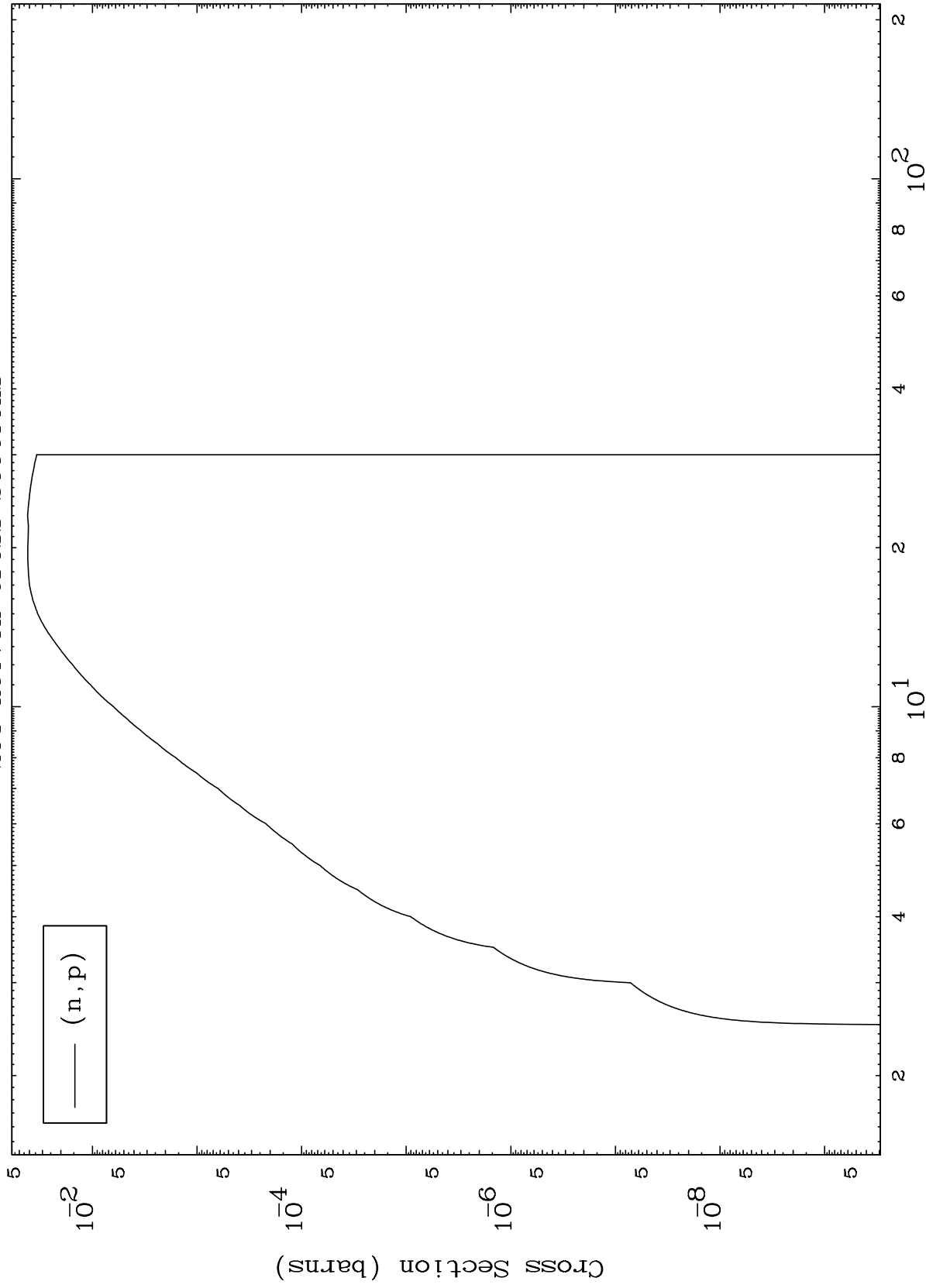
34-Se-79



MAT 3440

(n,p) Levels  
293 Kelvin Cross Sections

34-Se-79



10

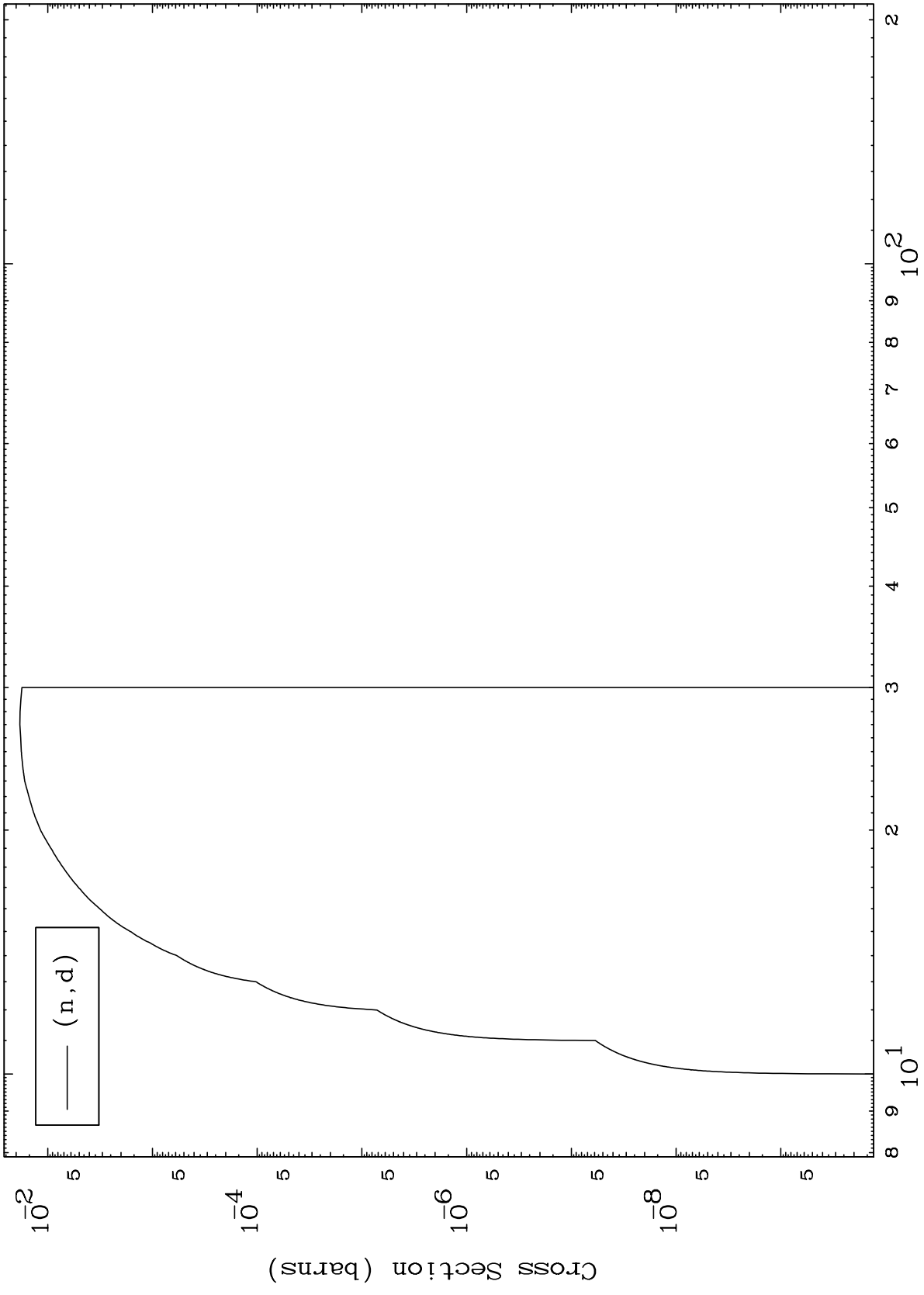
Incident Energy (MeV)

34-Se-79

MAT 3440

(n,d) Levels  
293 Kelvin Cross Sections

34-Se-79



11

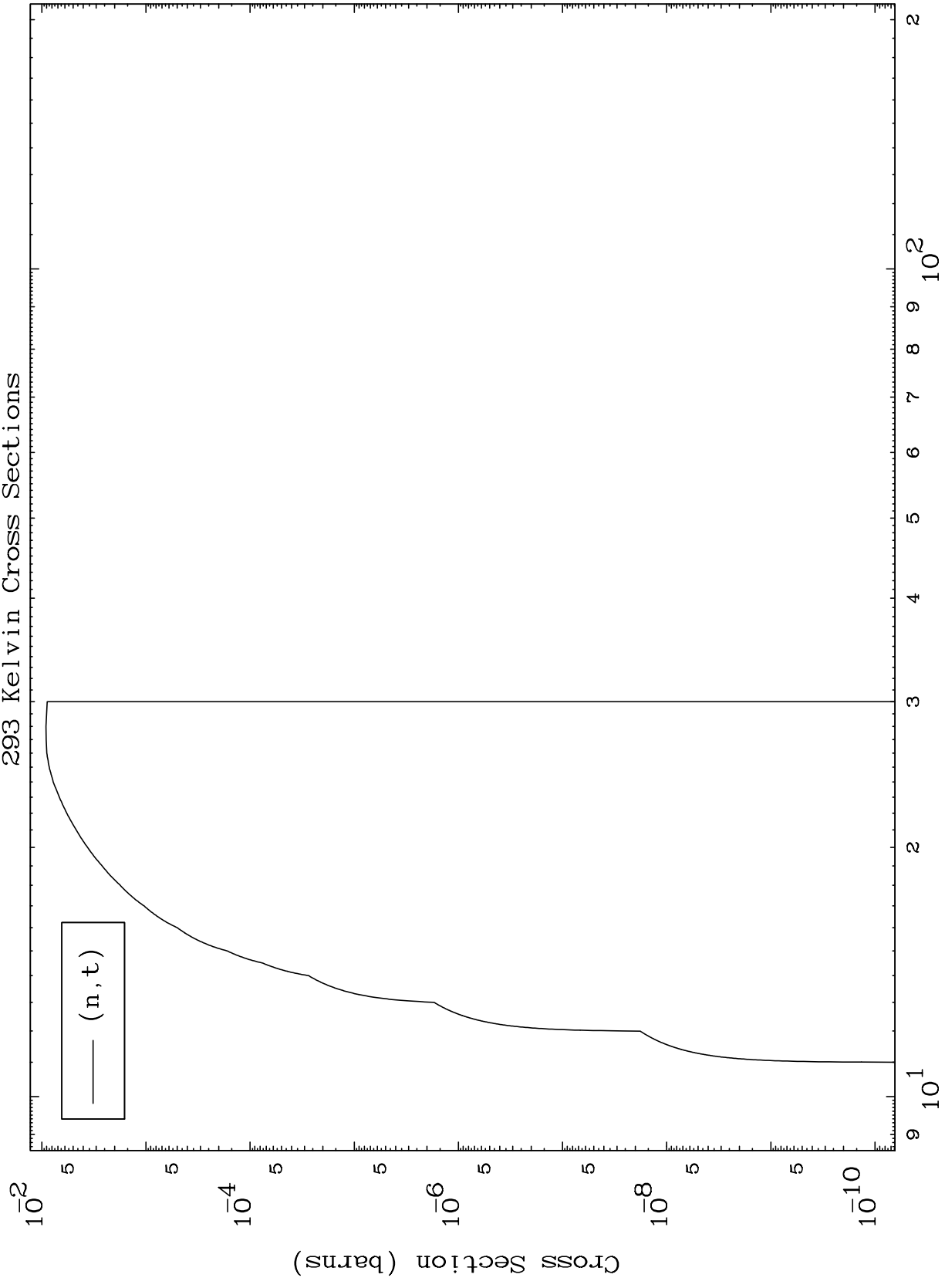
Incident Energy (MeV)

34-Se-79

MAT 3440

34-Se-79

(n,t) Levels  
293 Kelvin Cross Sections



12

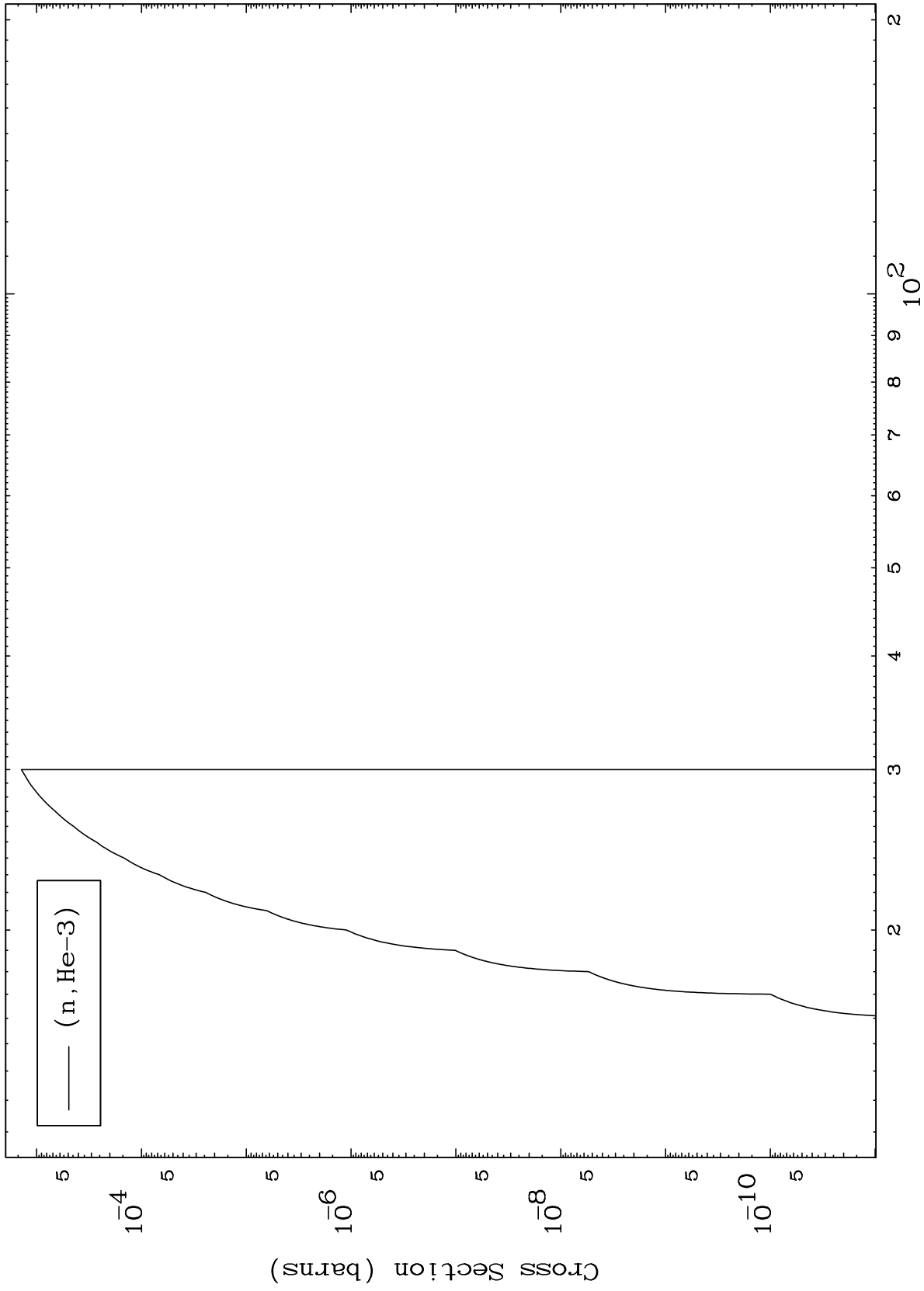
Incident Energy (MeV)

34-Se-79

MAT 3440

(n,He3) Levels  
293 Kelvin Cross Sections

34-Se-79



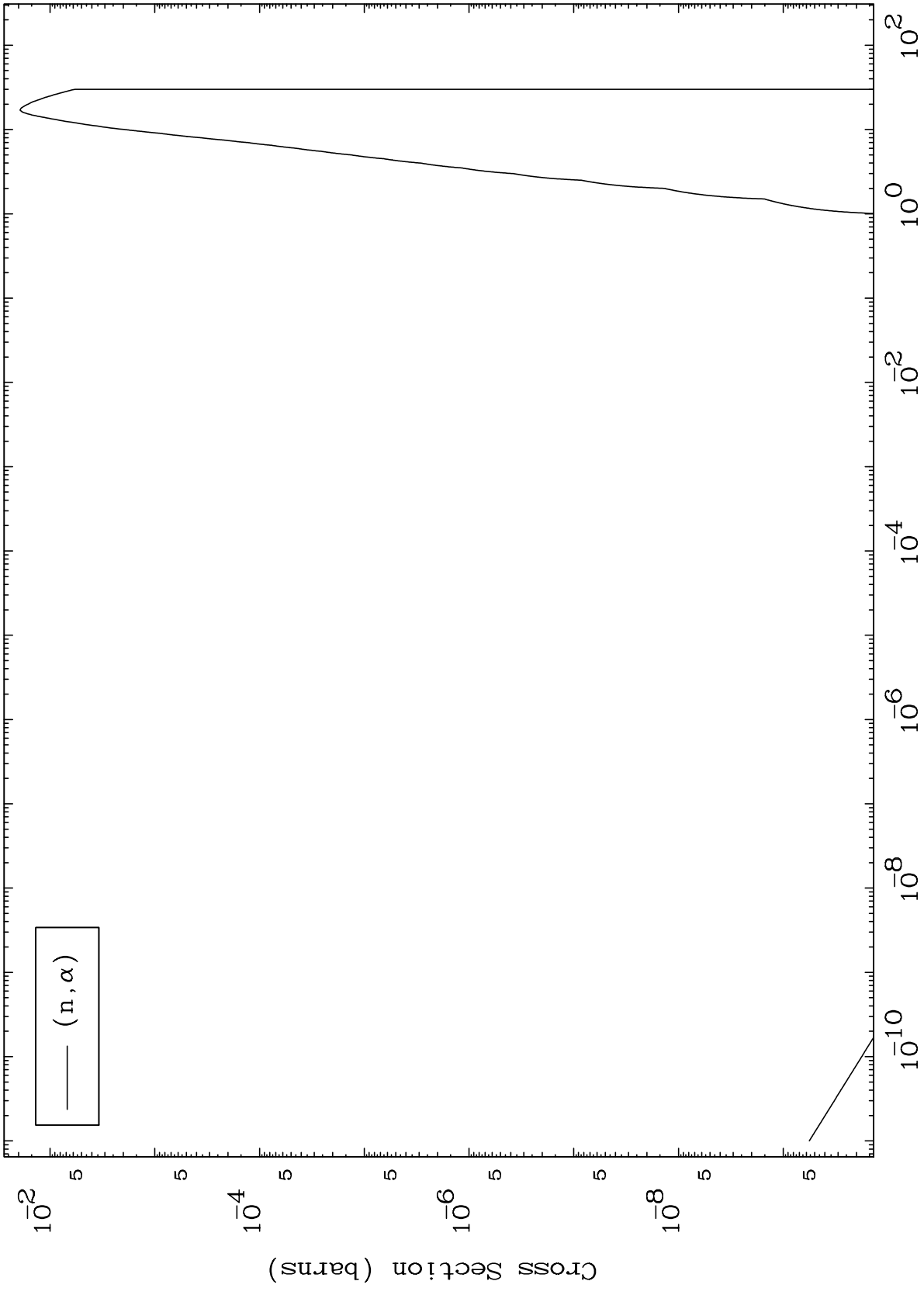
13

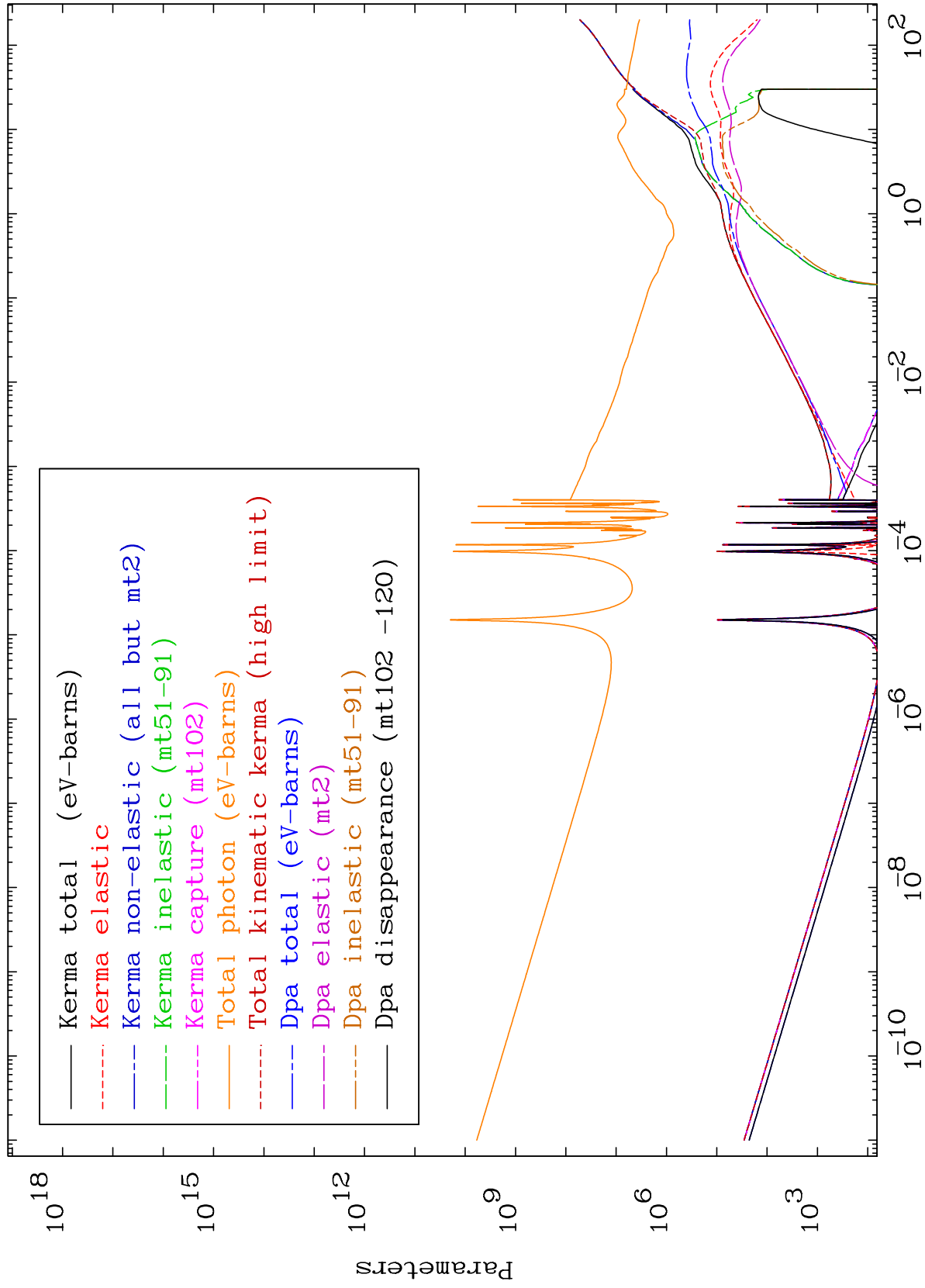
34-Se-79

MAT 3440

(n,α) Levels  
293 Kelvin Cross Sections

34-Se-79





MAT 3440

Elastic Legendre Coefficients

<sup>34</sup>Se-79



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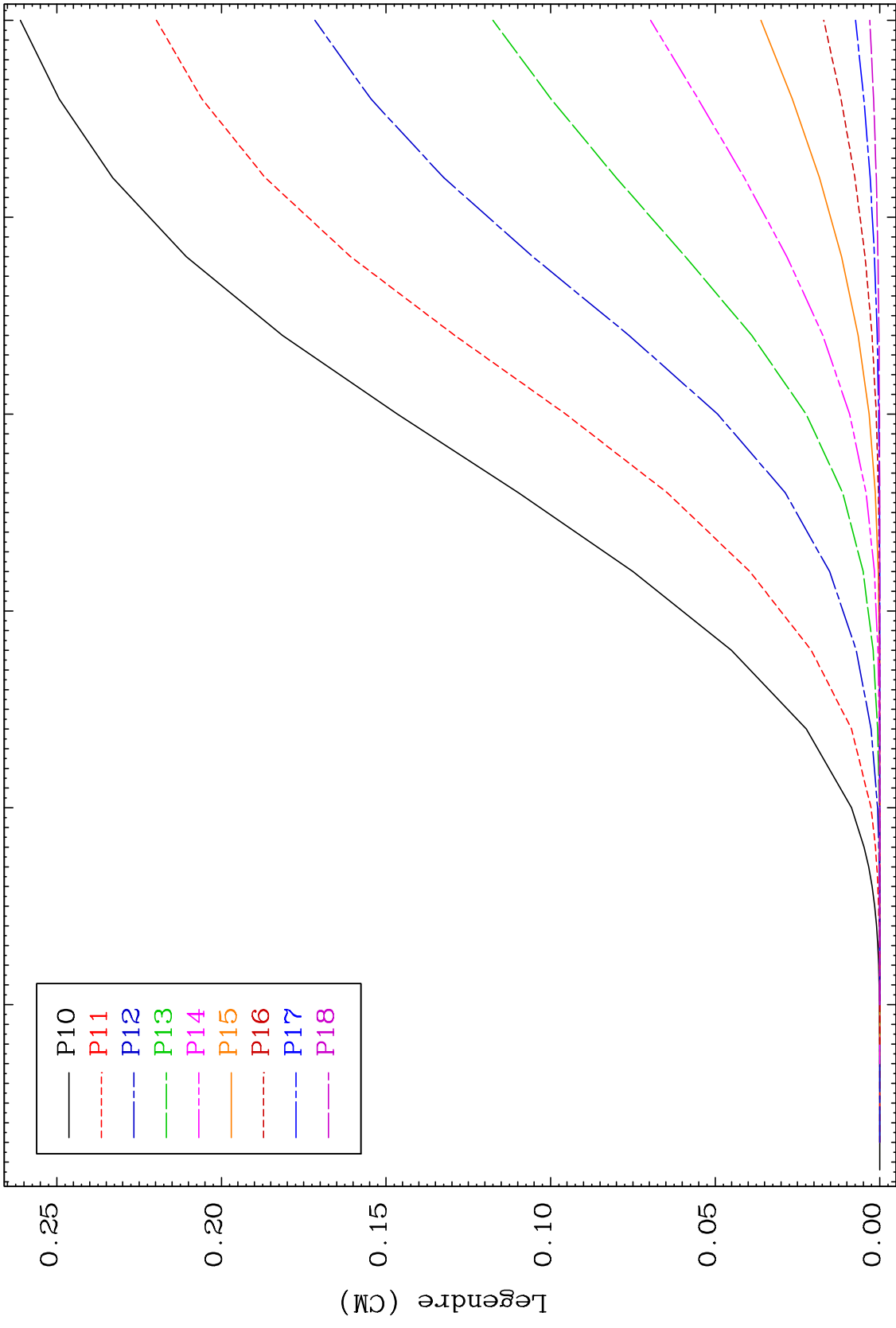
Incident Energy (MeV)

<sup>34</sup>Se-79

MAT 3440

Elastic Legendre Coefficients

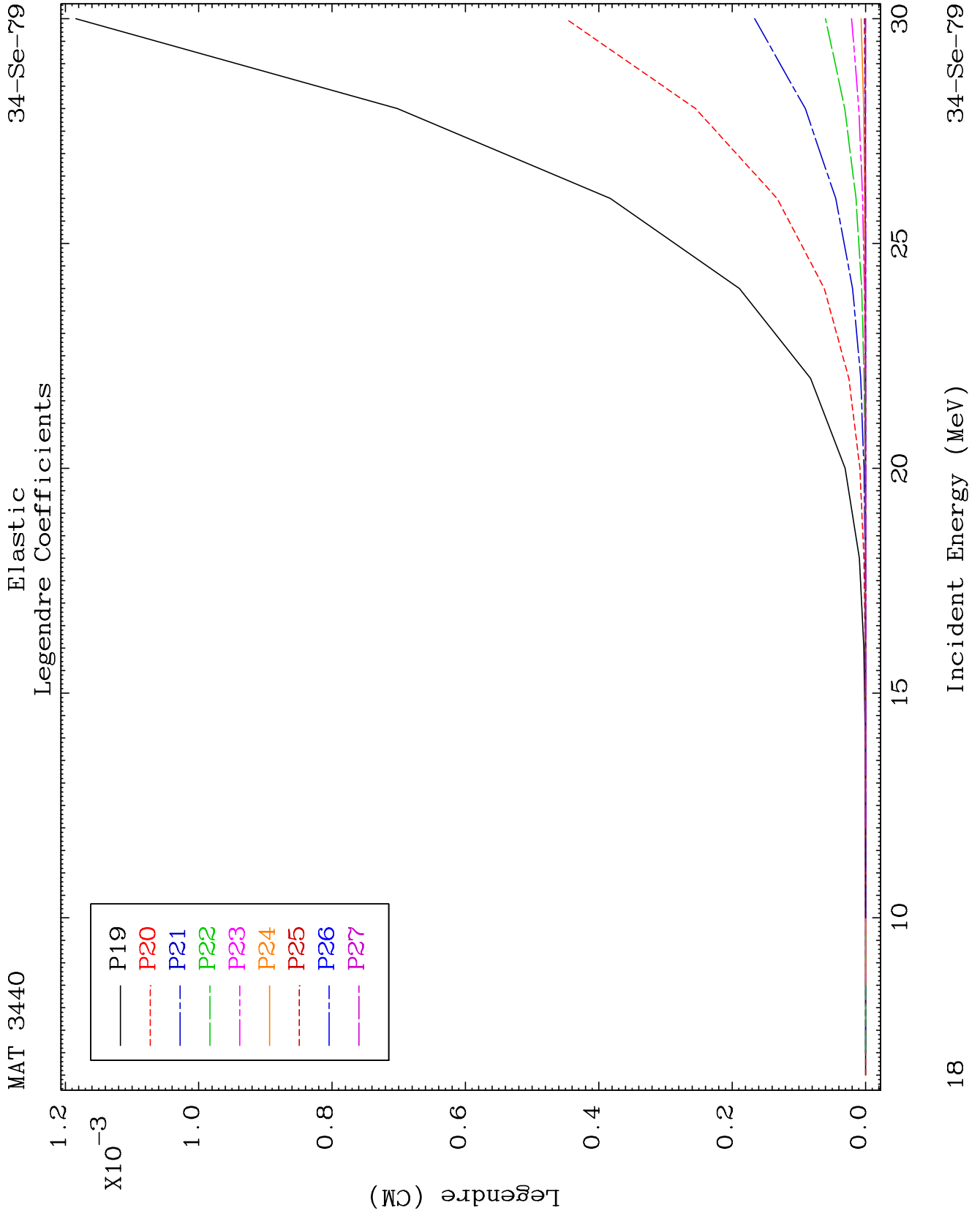
<sup>34</sup>Se-79



17

Incident Energy (MeV)

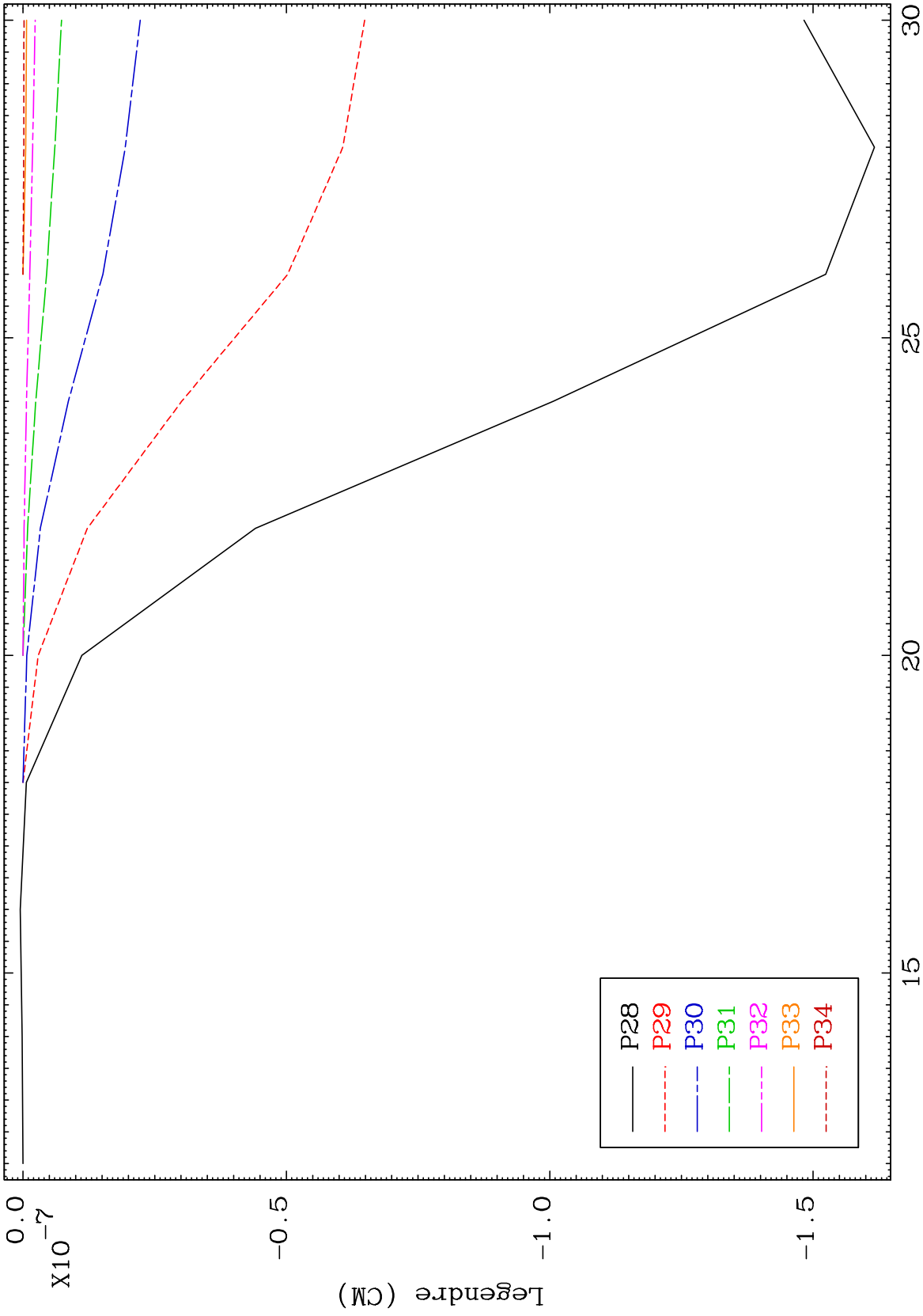
<sup>34</sup>Se-79



MAT 3440

34-Se-79

Elastic  
Legendre Coefficients



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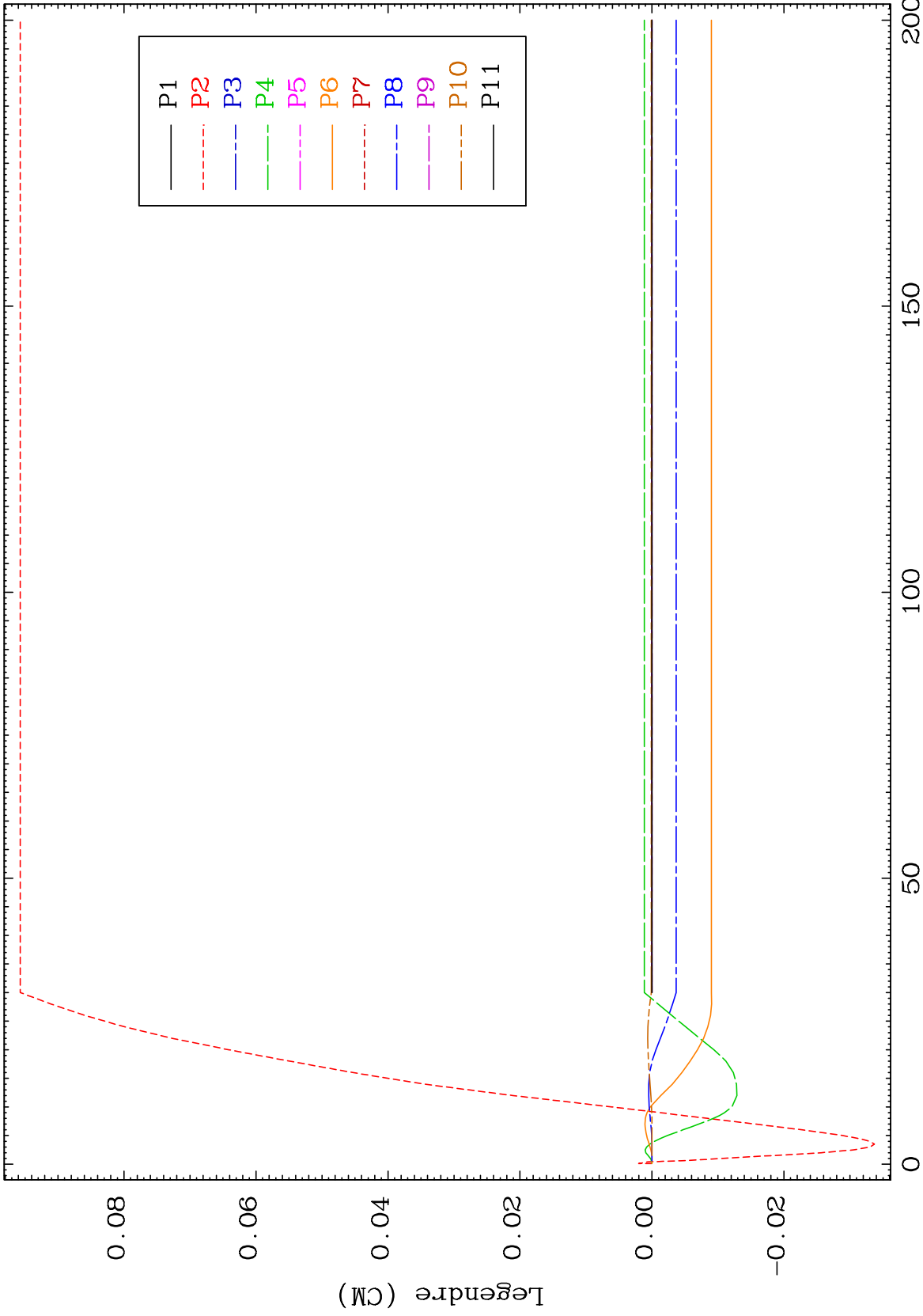
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



34-Se-79

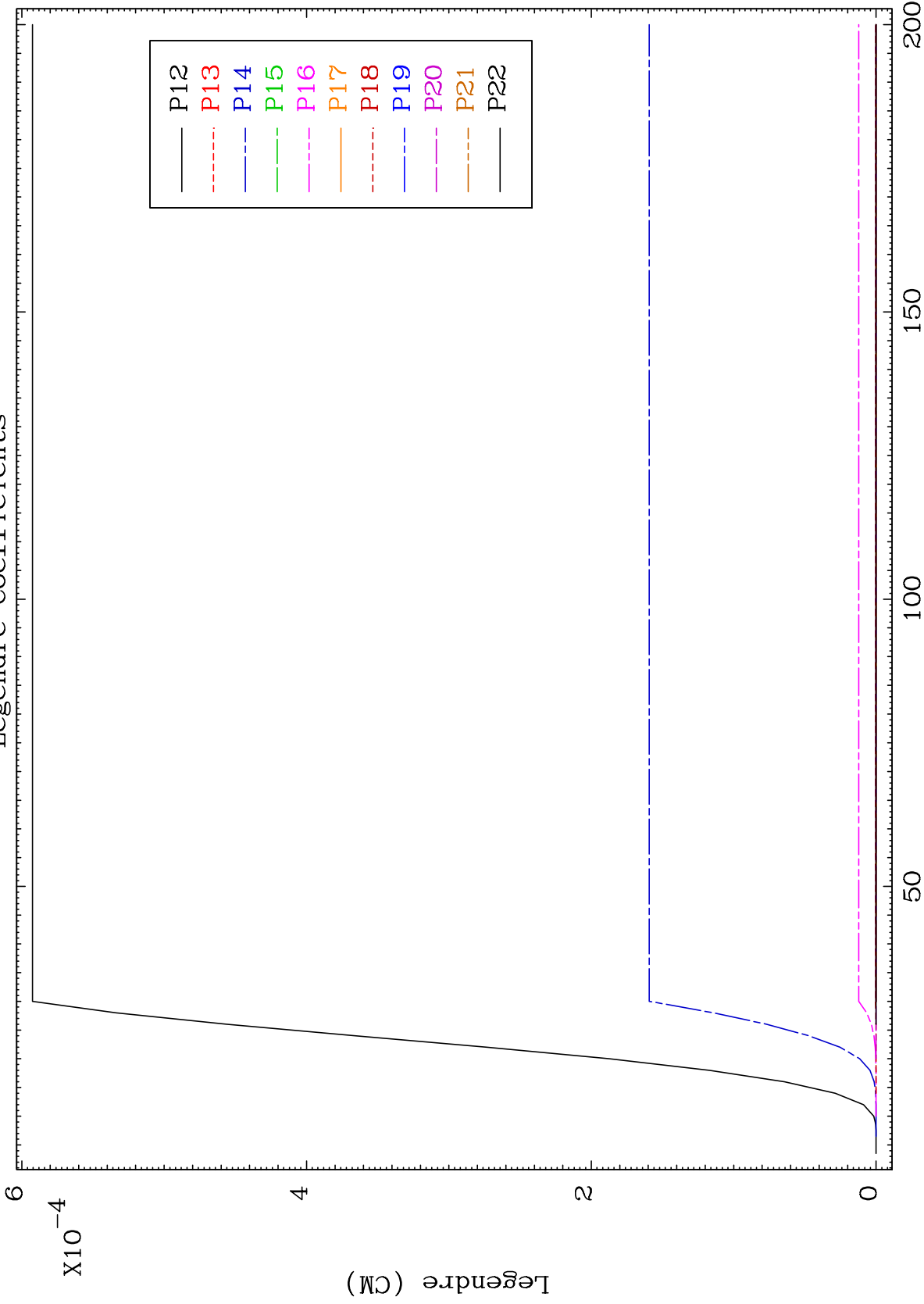
Incident Energy (MeV)

20

MAT 3440

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

34-Se-79



21

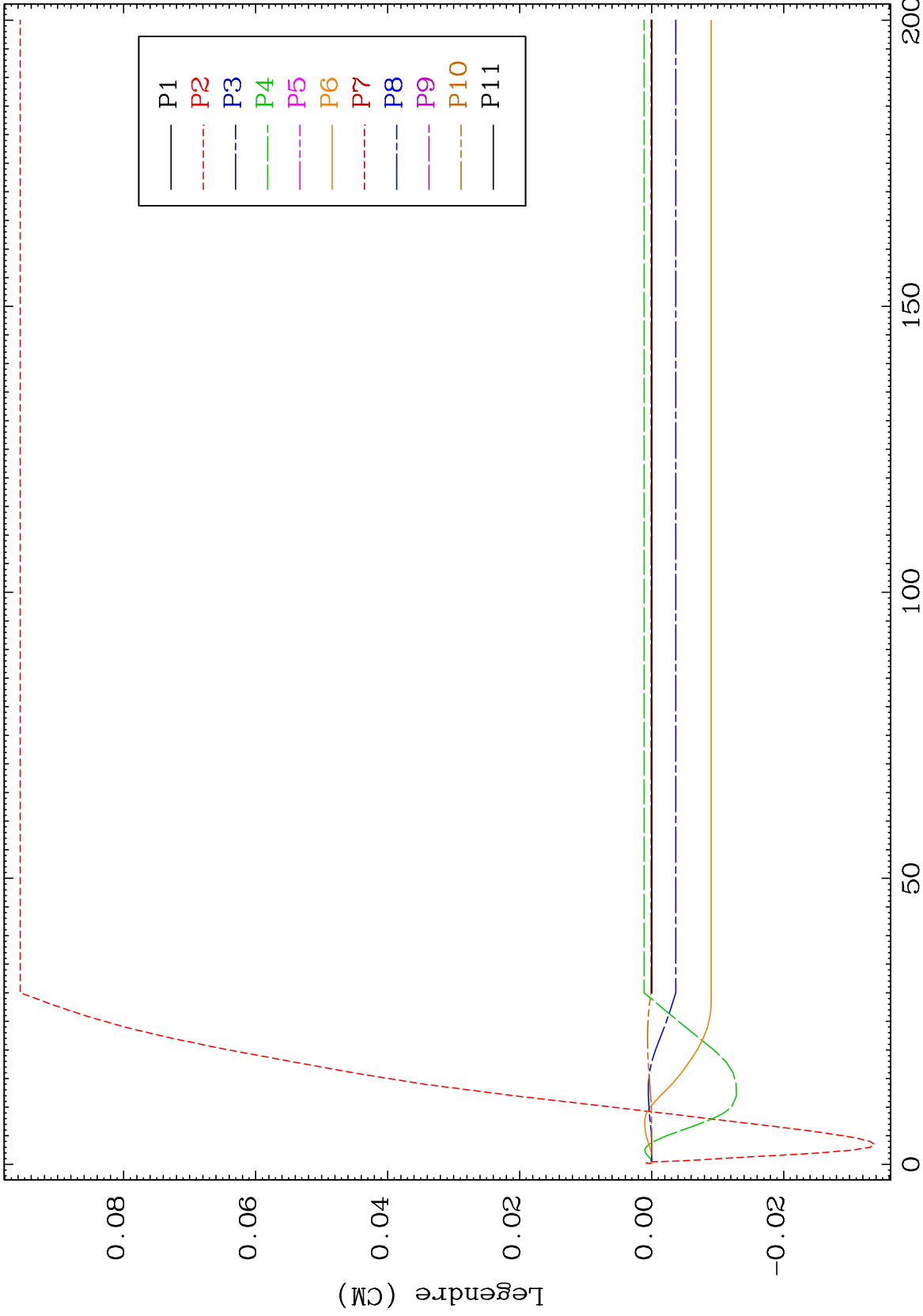
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



22

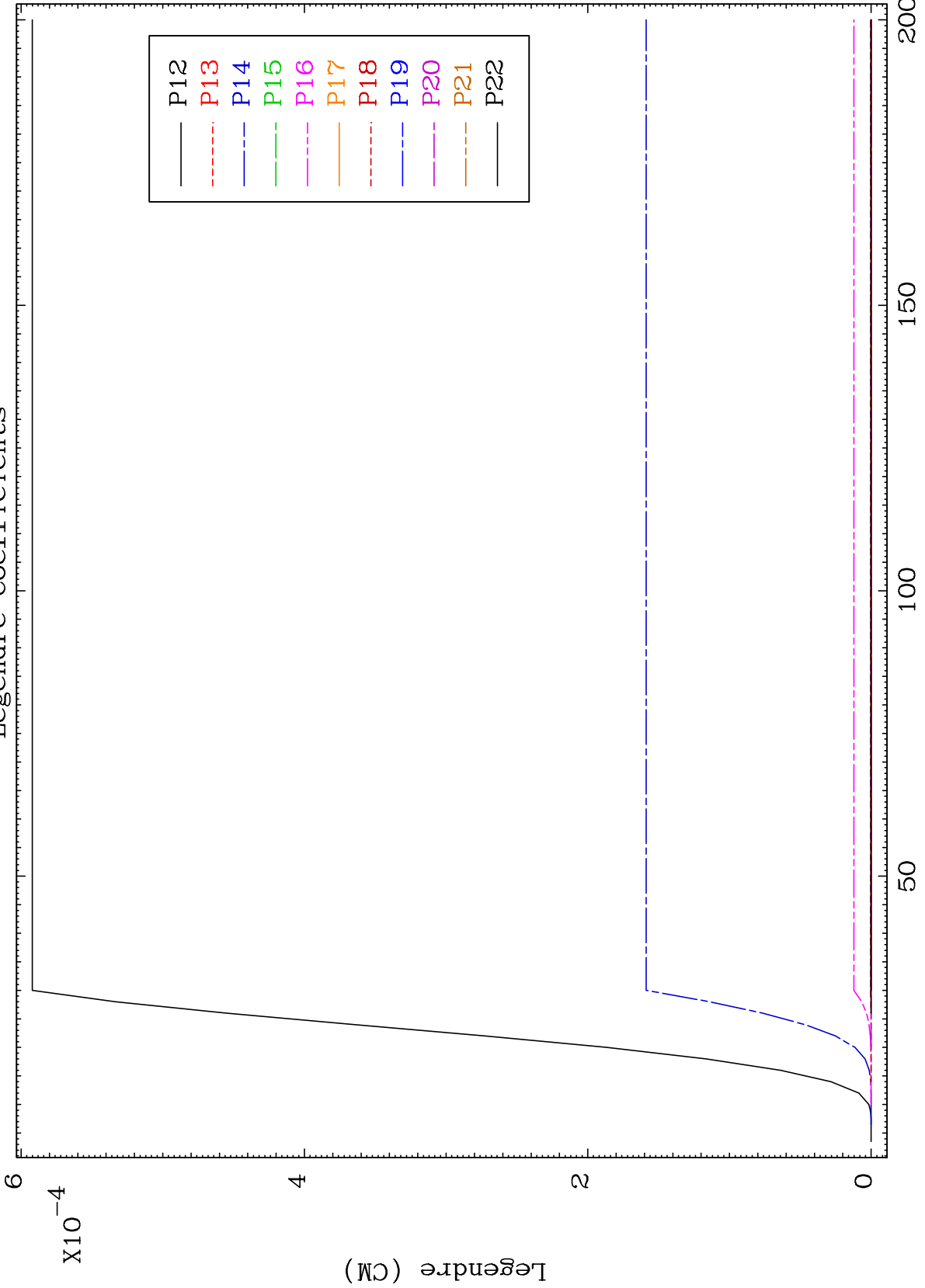
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



23

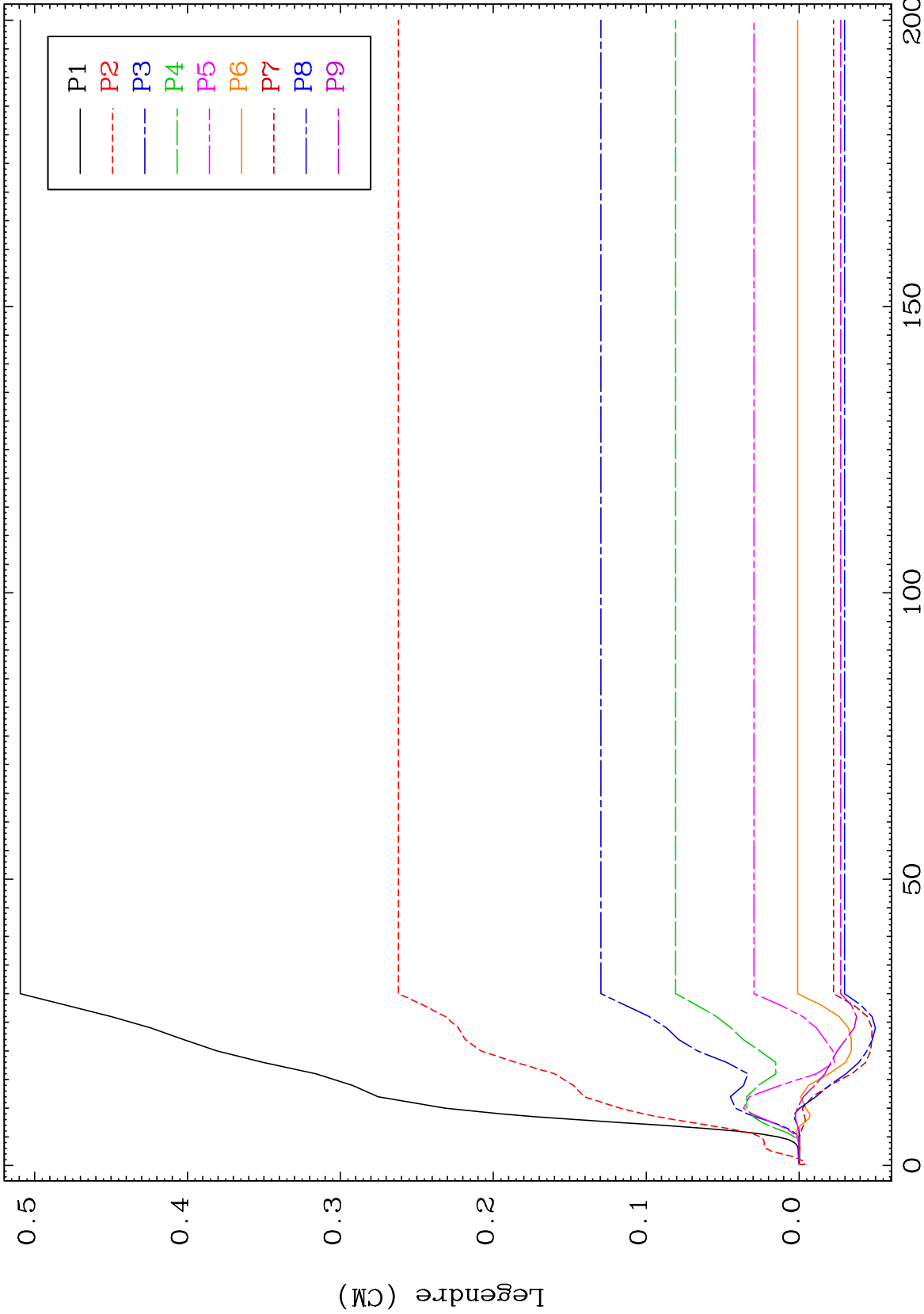
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



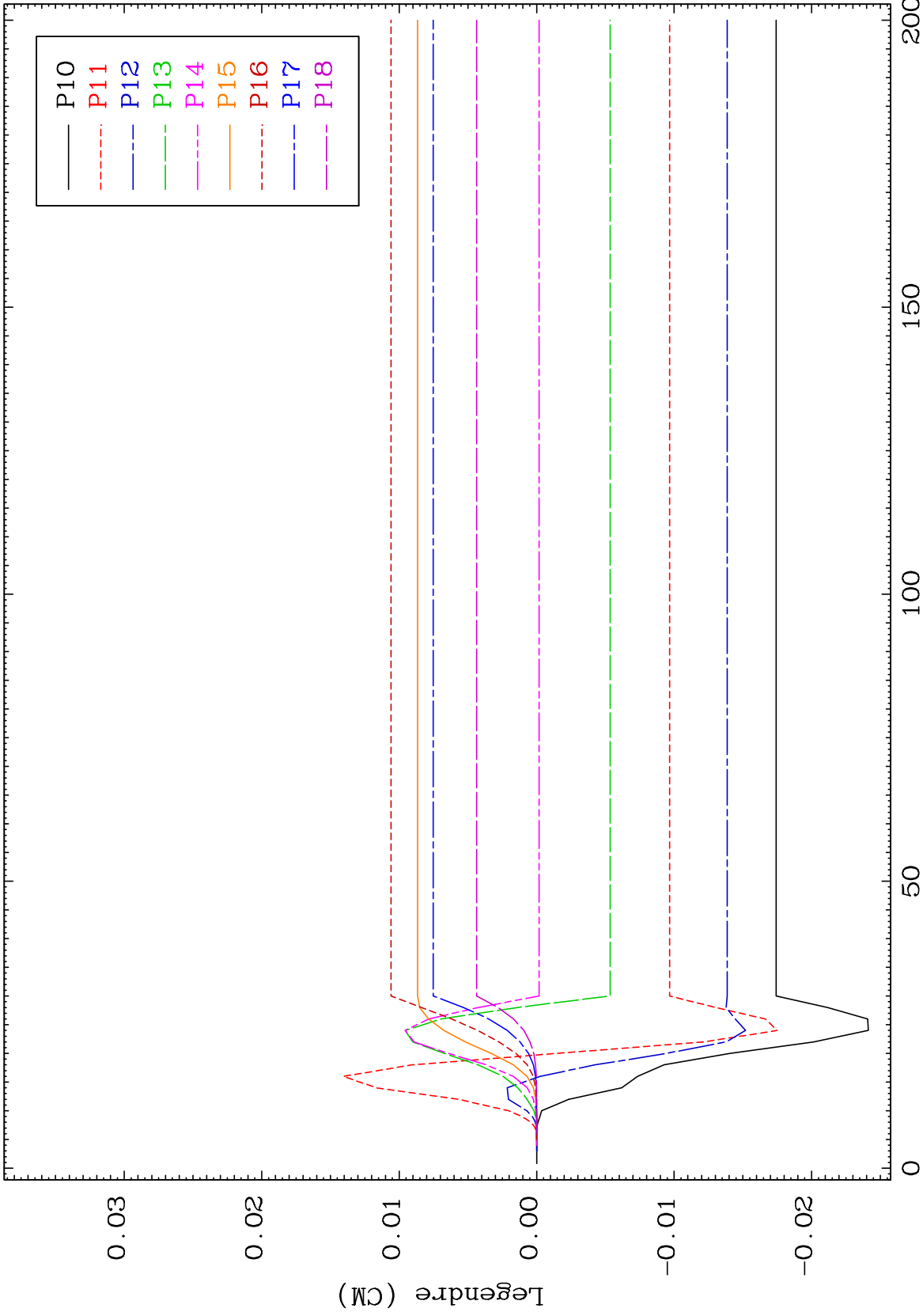
24

34-Se-79

MAT 3440

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

34-Se-79



25

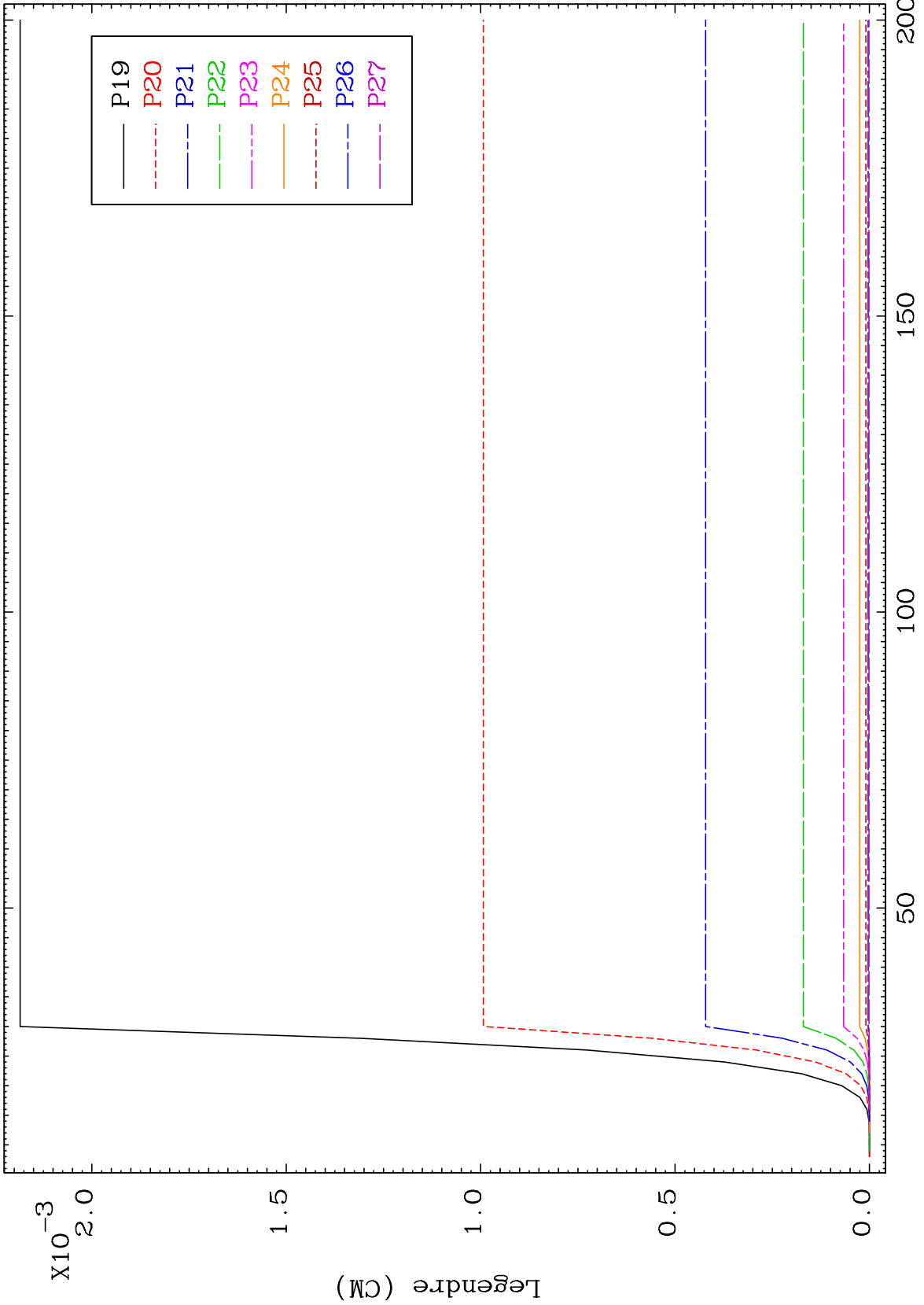
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



26

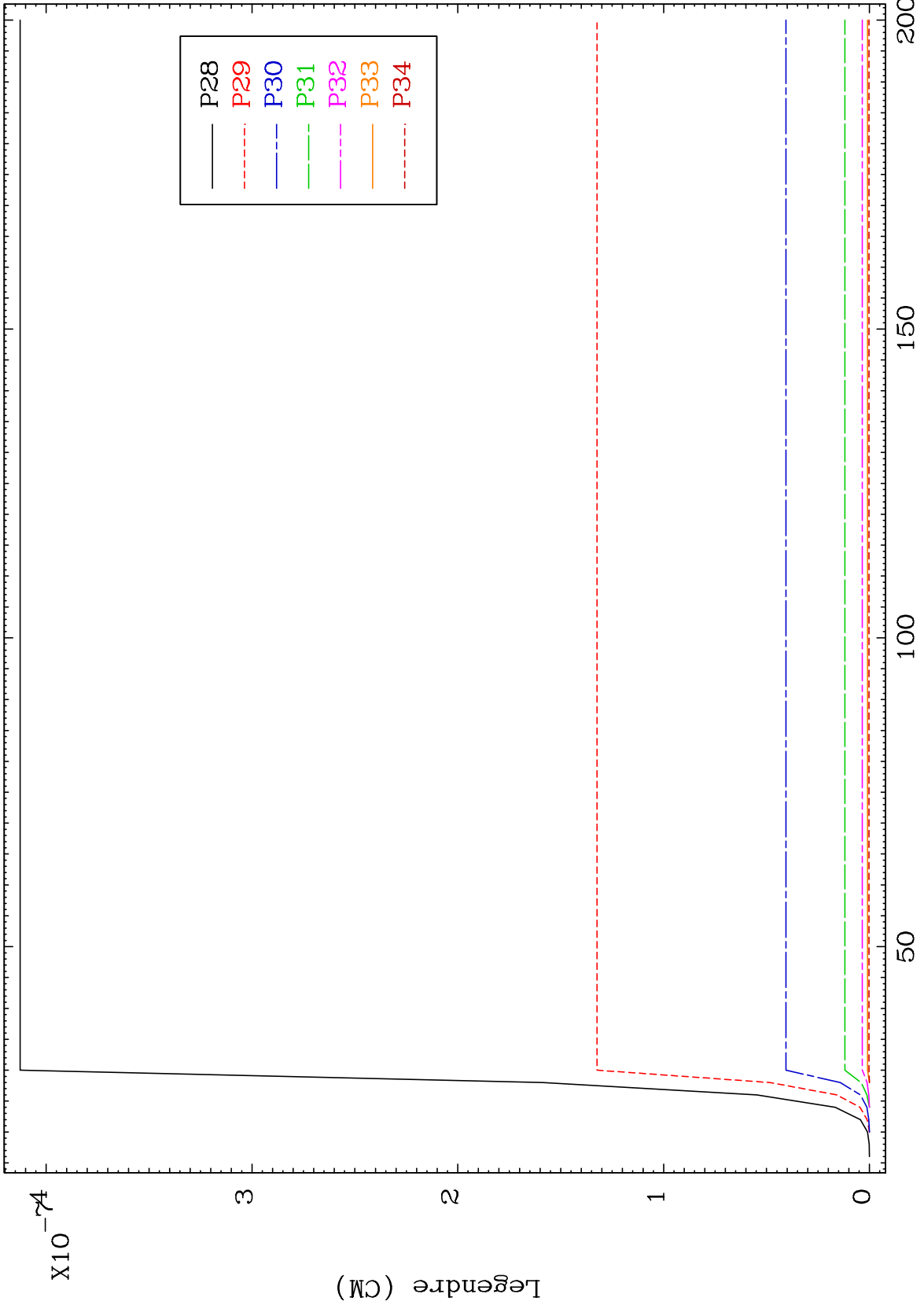
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79

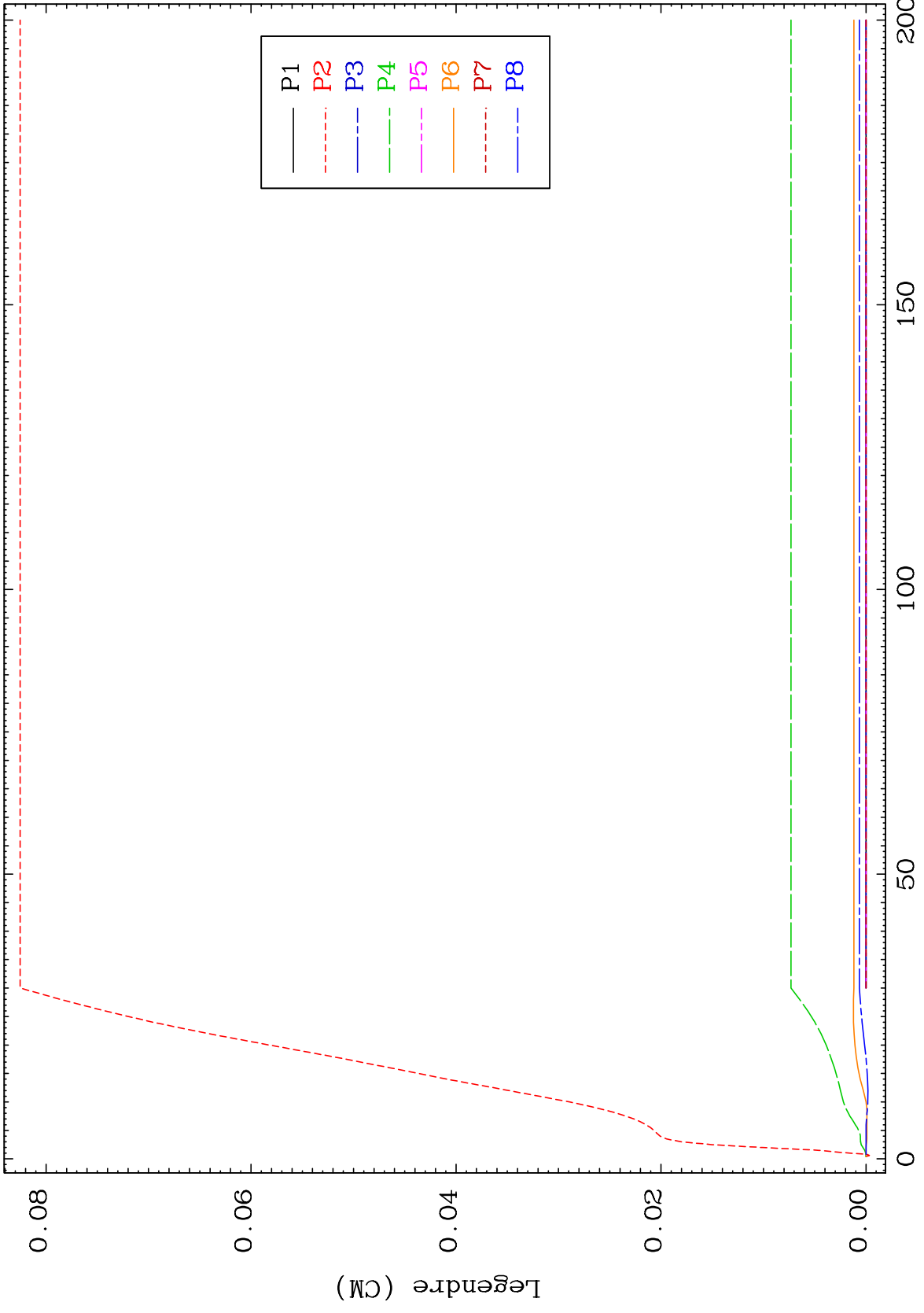


27

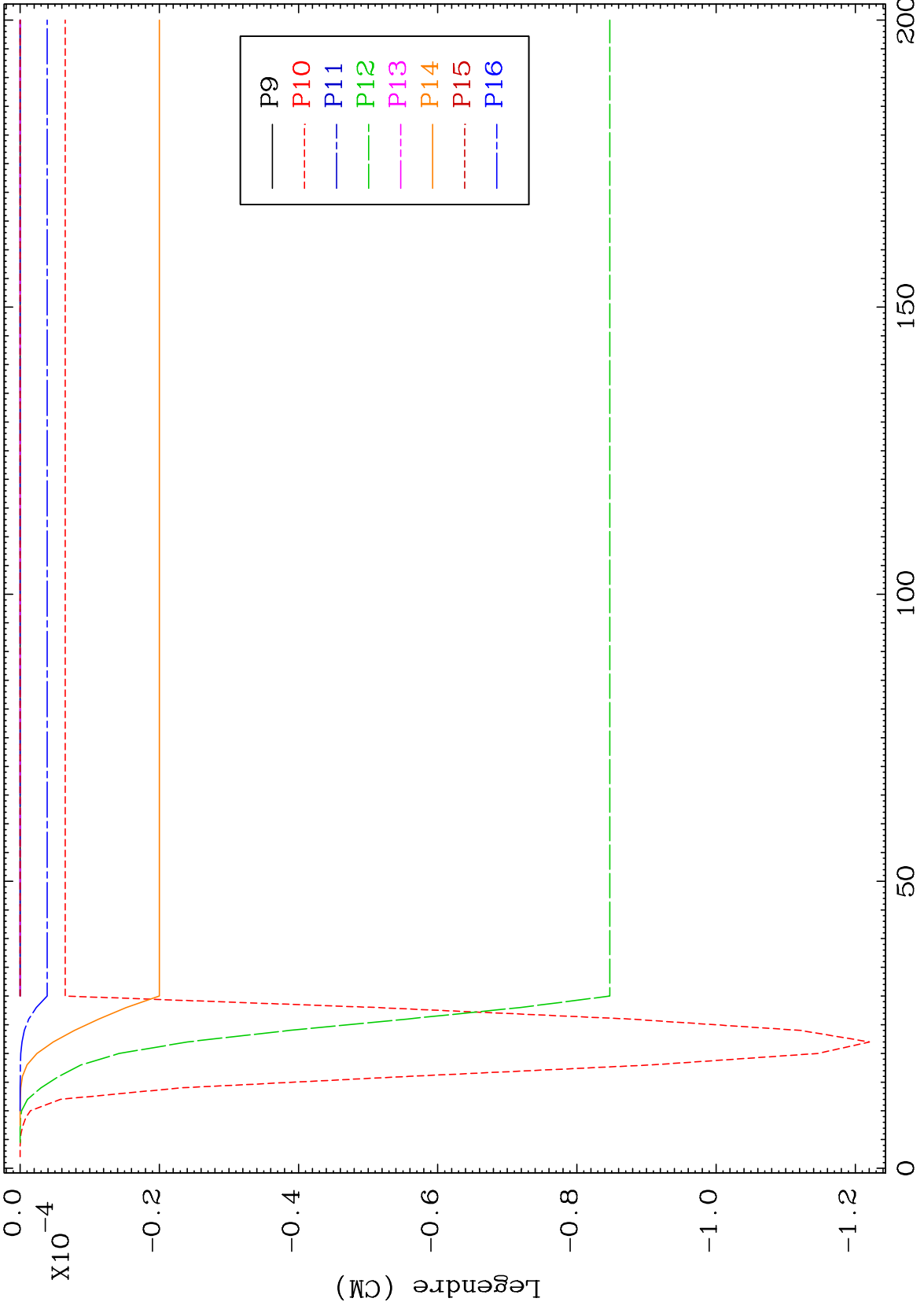
Incident Energy (MeV)

34-Se-79

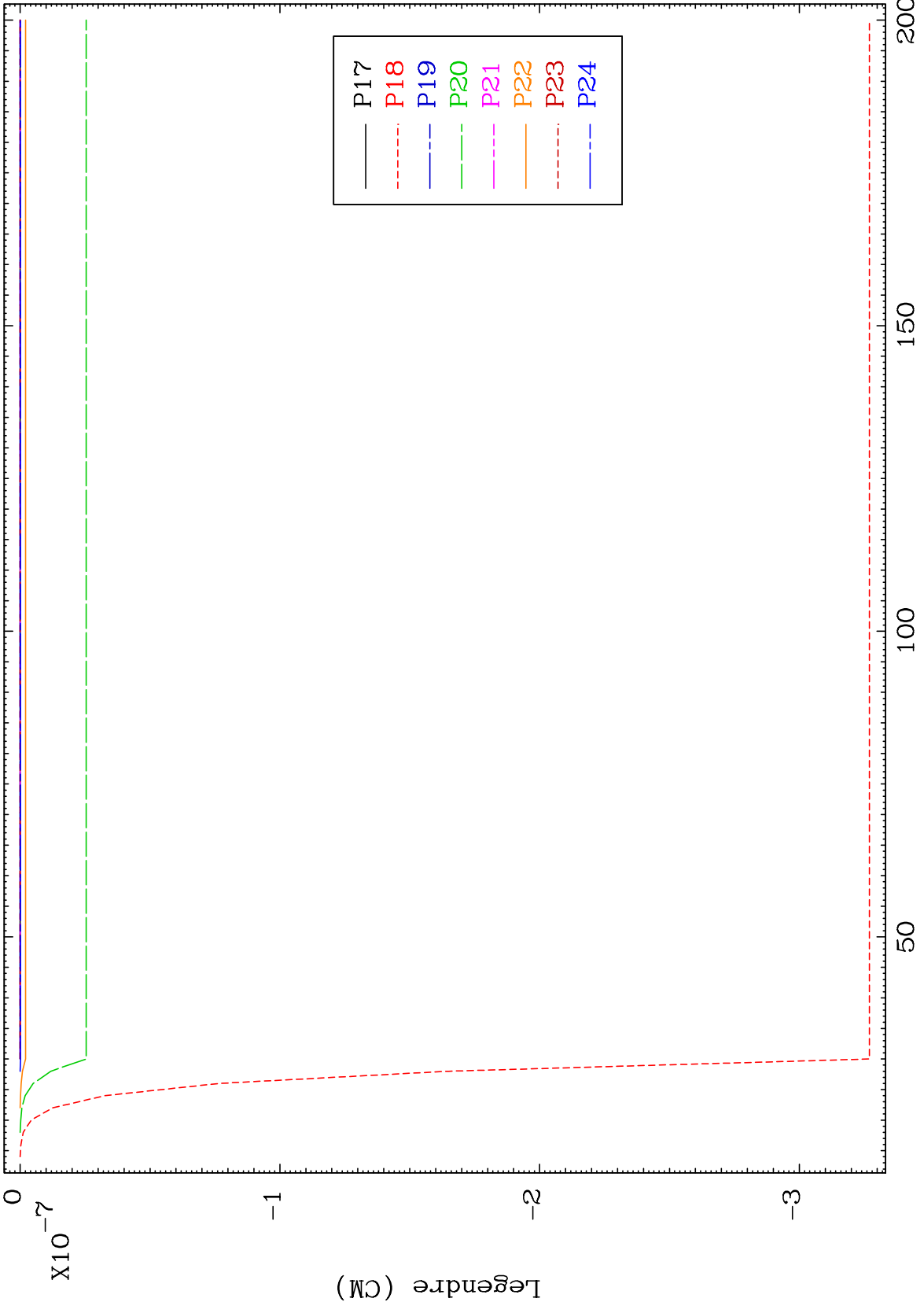
MAT 3440 MT= 54 (n,n') Level Legendre Coefficients 34-Se-79



34-Se-79



MAT 3440 MT= 54 (n,n') Level Legendre Coefficients 34-Se-79

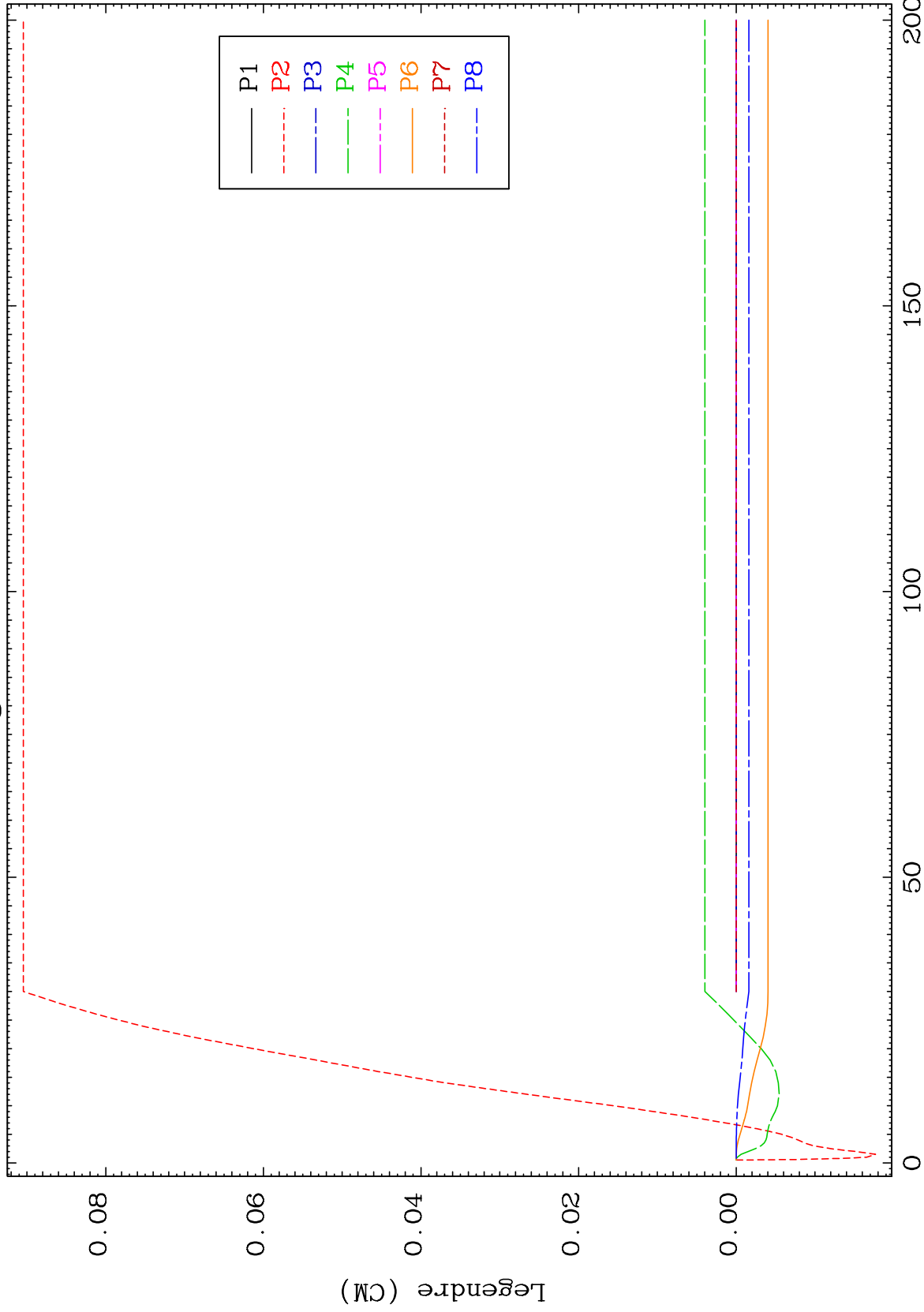


34-Se-79

MAT 3440

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

34-Se-79



31

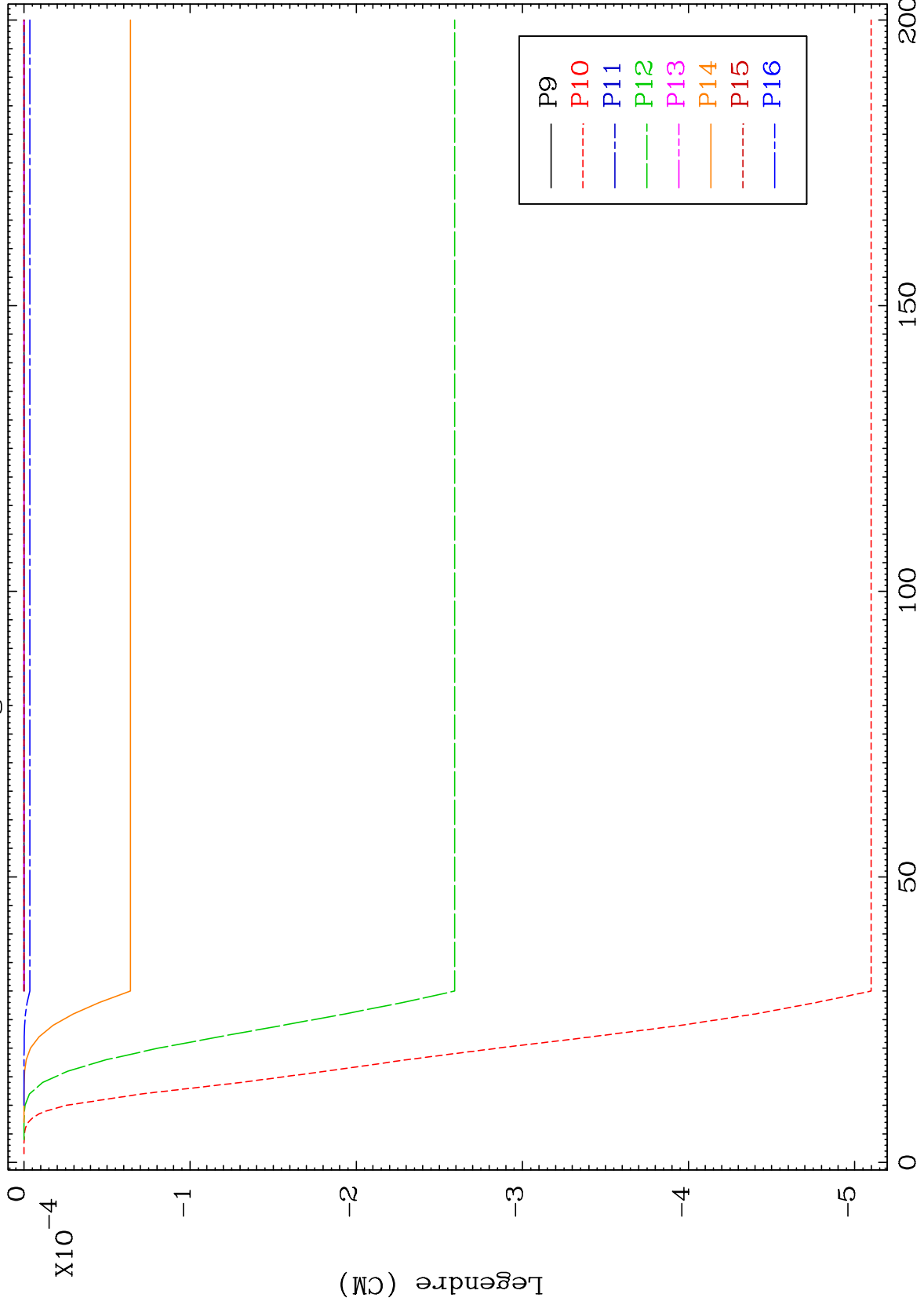
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



34-Se-79

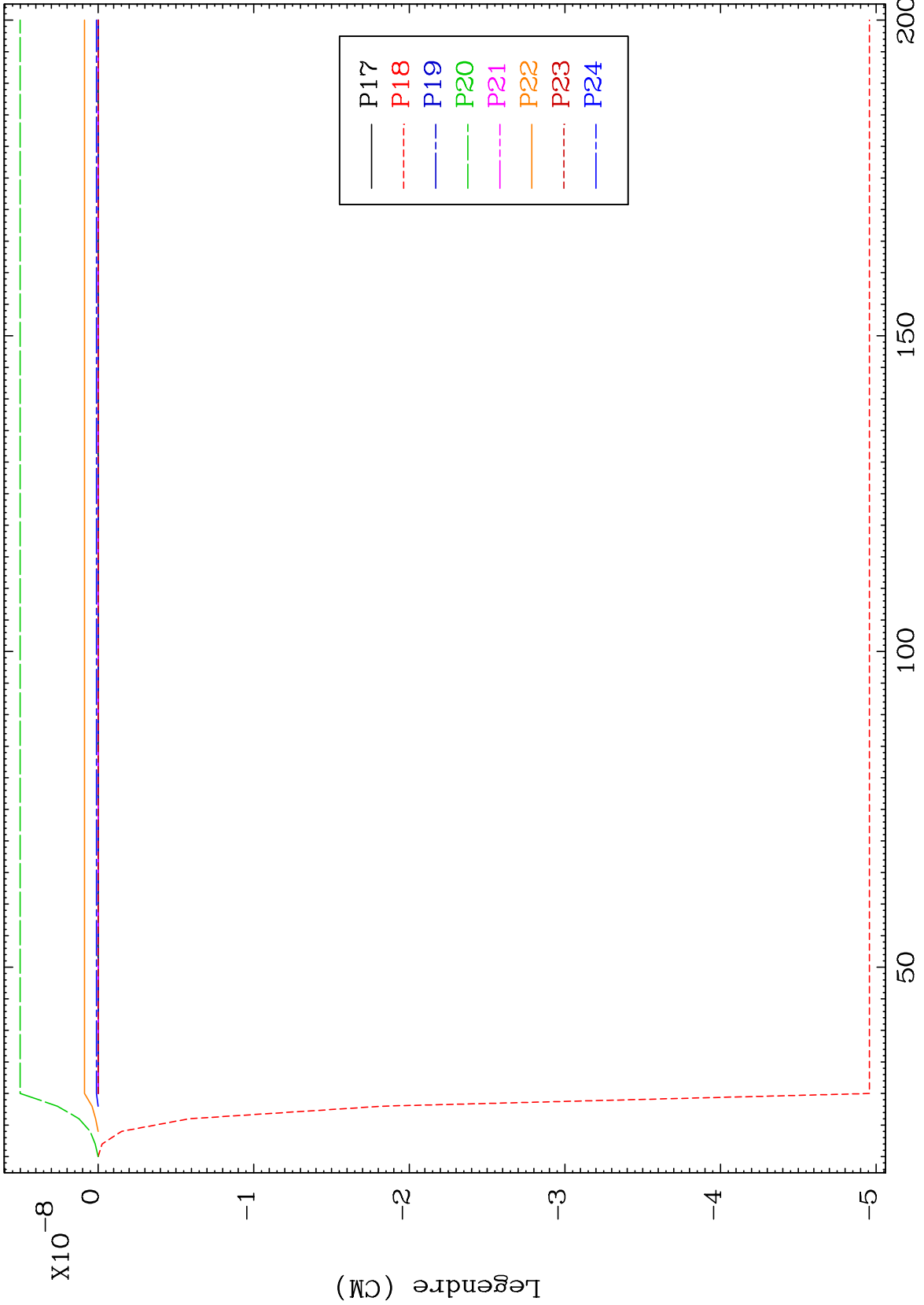
Incident Energy (MeV)

32

MAT 3440

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

34-Se-79

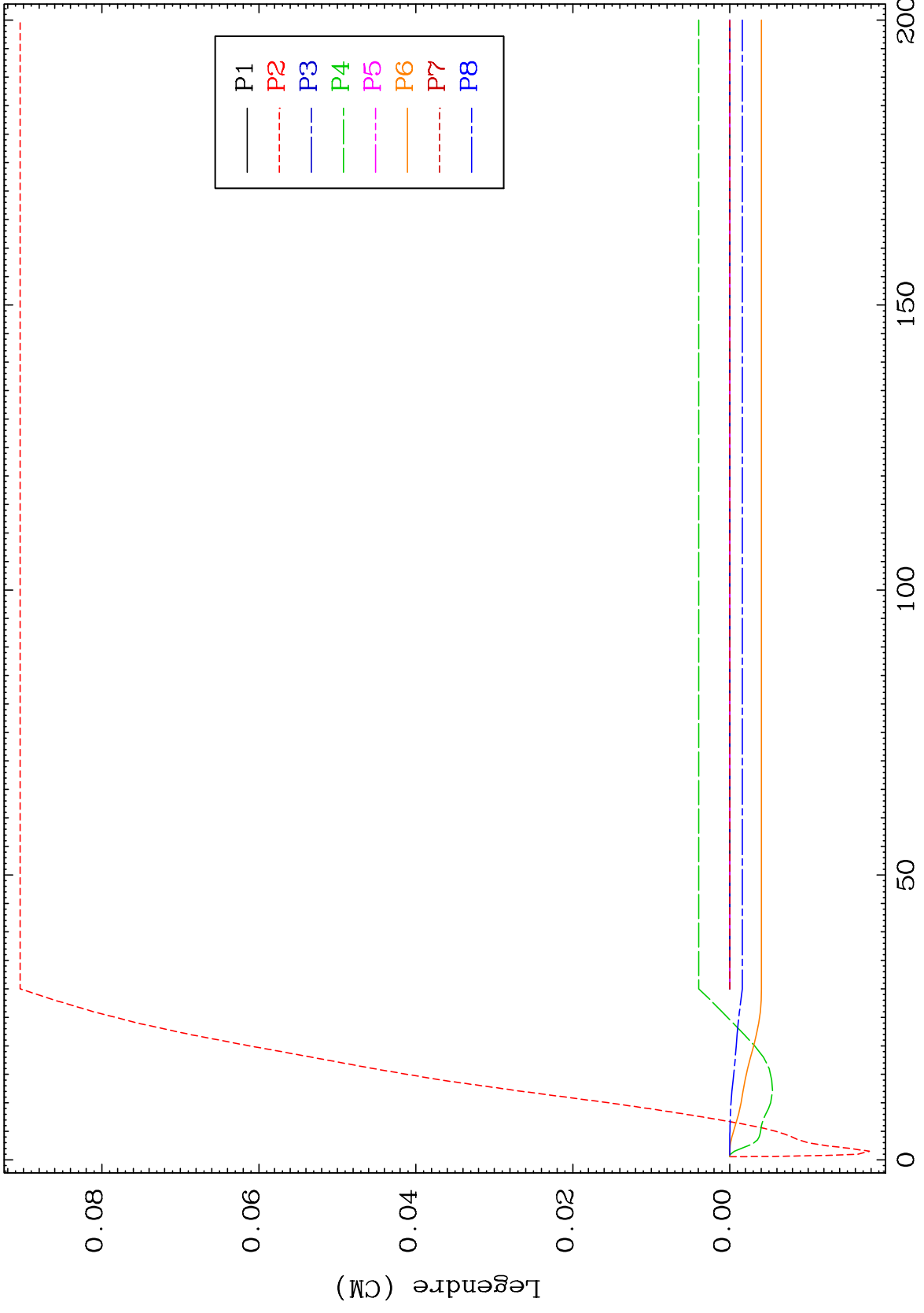


33

Incident Energy (MeV)

34-Se-79

MAT 3440 MT= 56 (n,n') Level Legendre Coefficients 34-Se-79



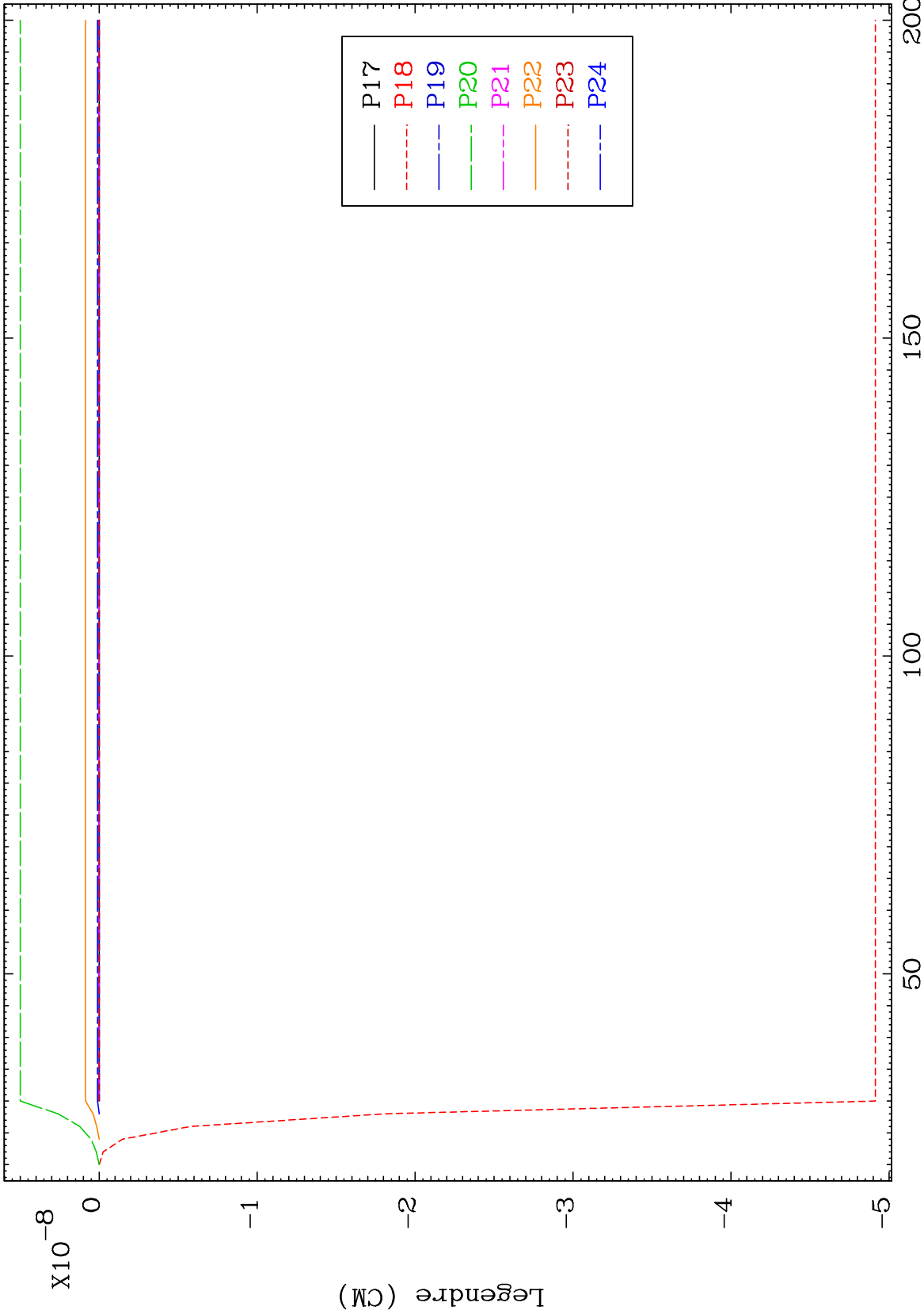
34 34-Se-79



MAT 3440

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

34-Se-79

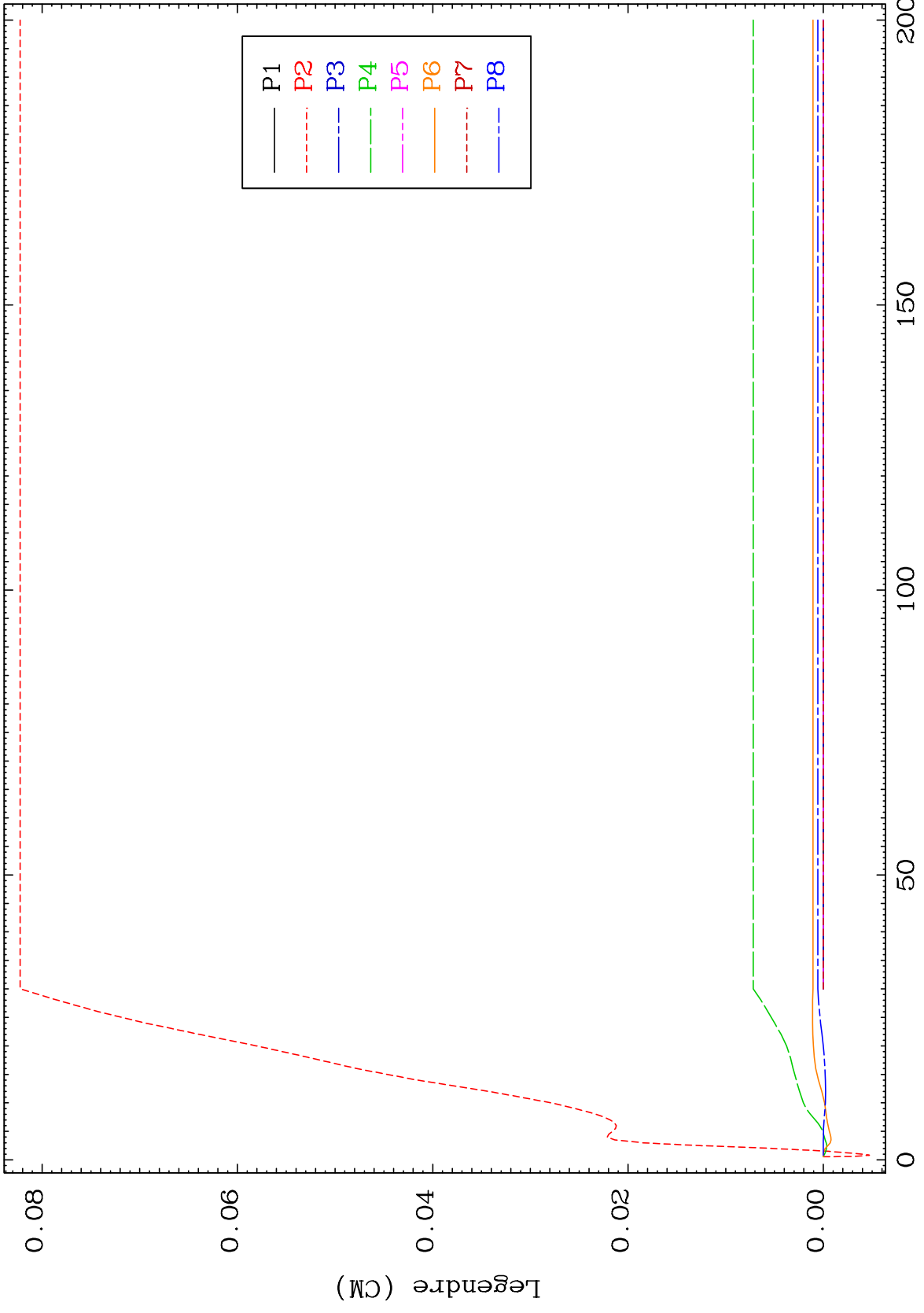


36

Incident Energy (MeV)

34-Se-79

MAT 3440 MT= 57 (n,n') Level Legendre Coefficients 34-Se-79

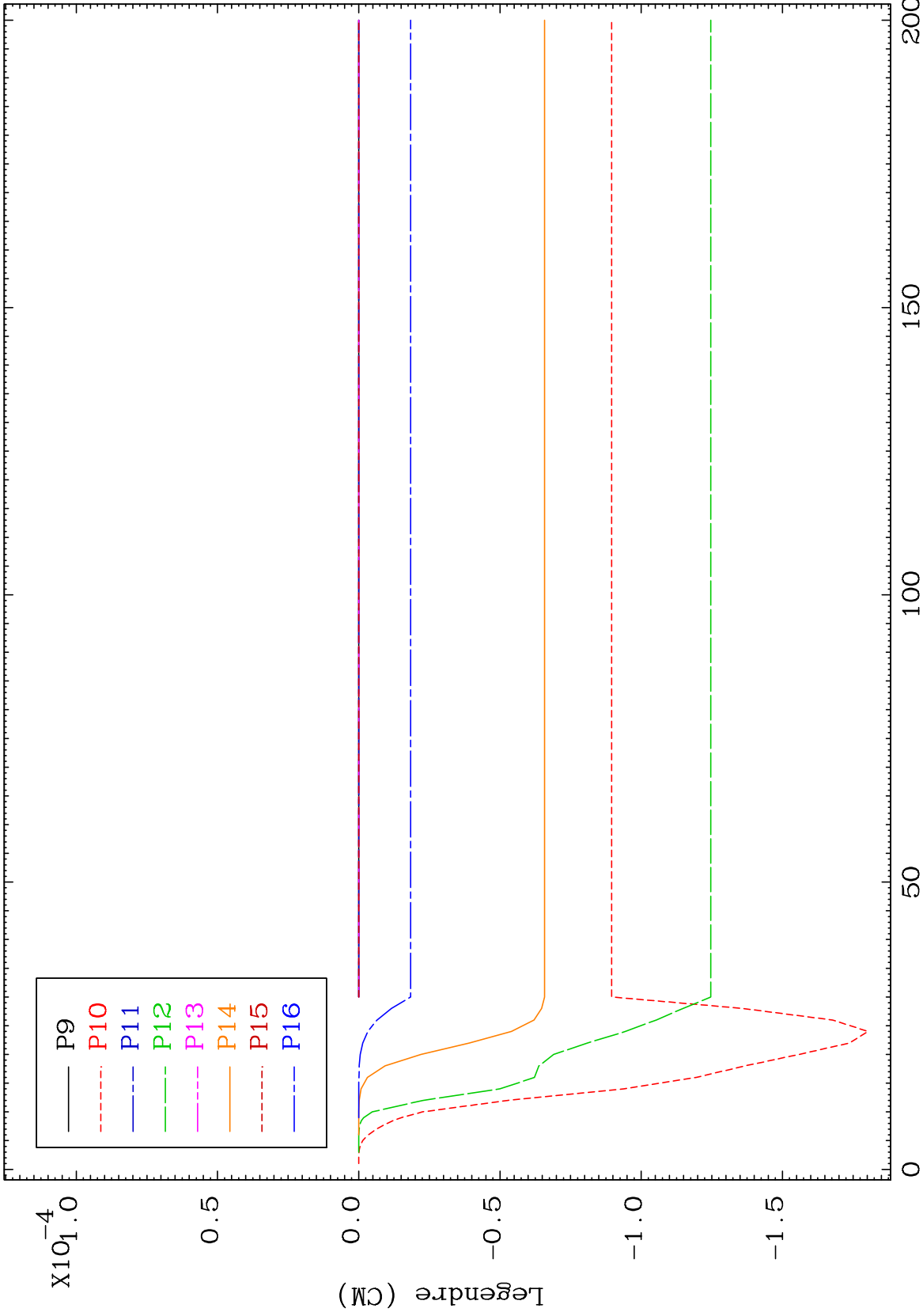


37 34-Se-79

MAT 3440

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

34-Se-79



38

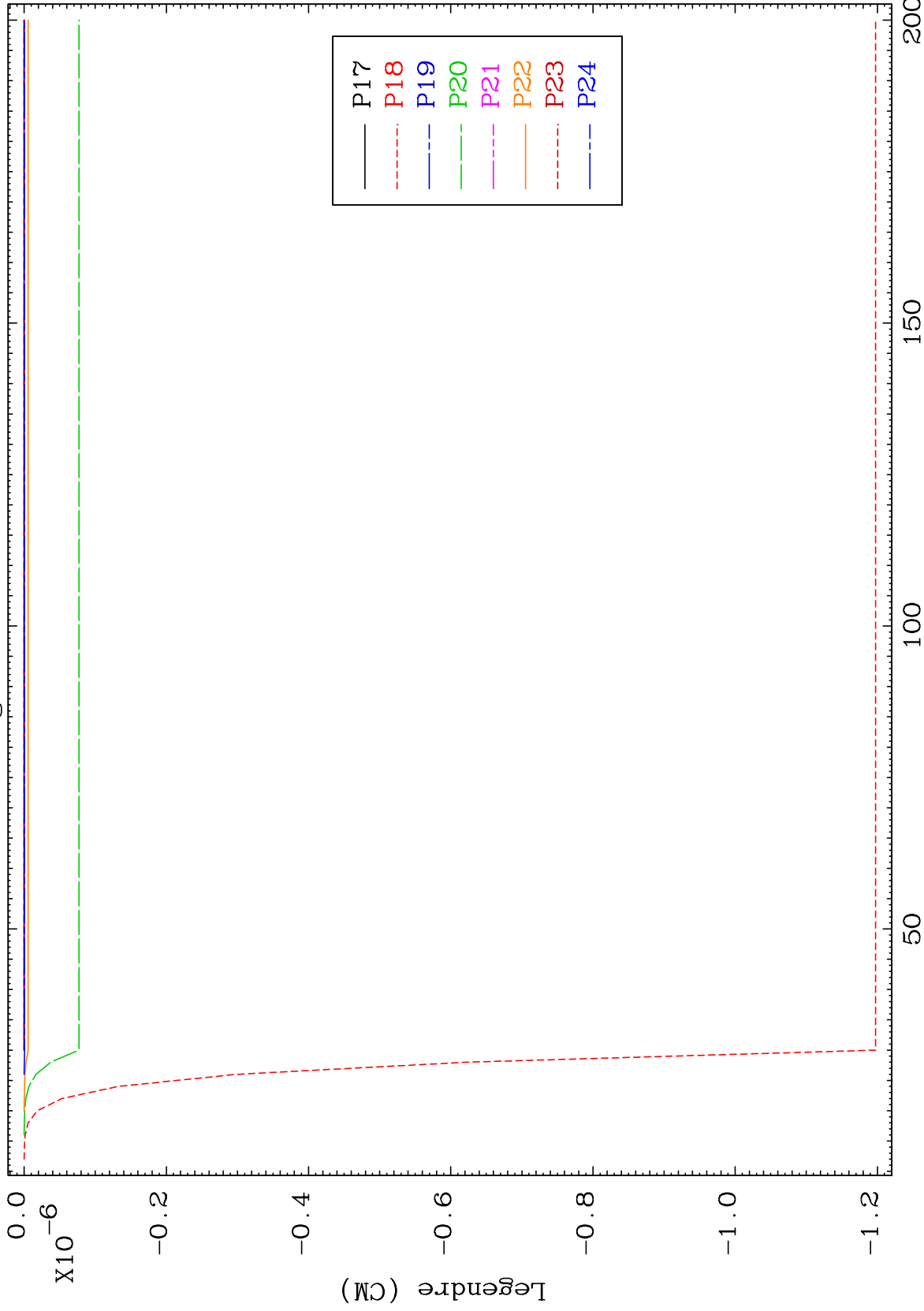
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79

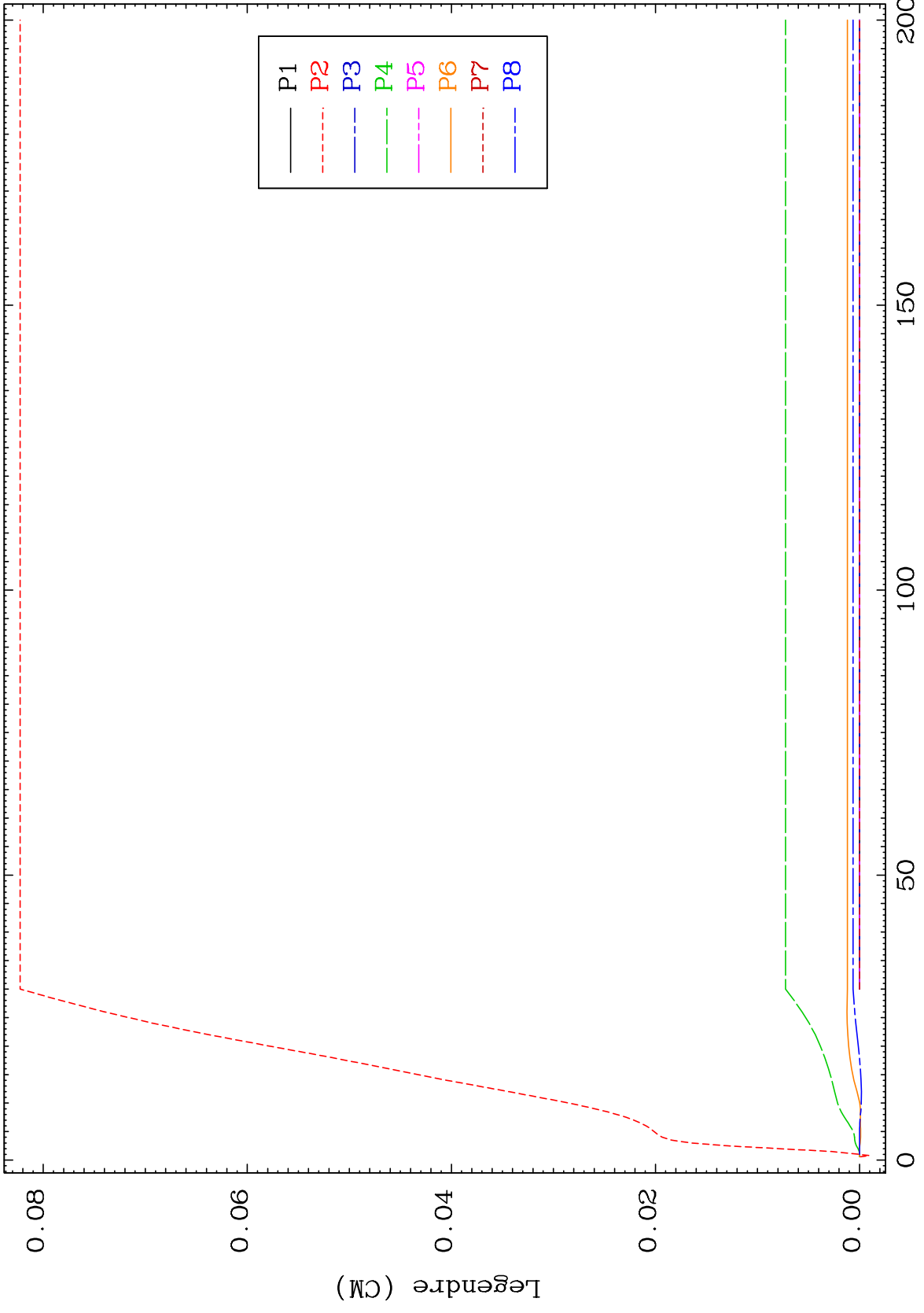


34-Se-79

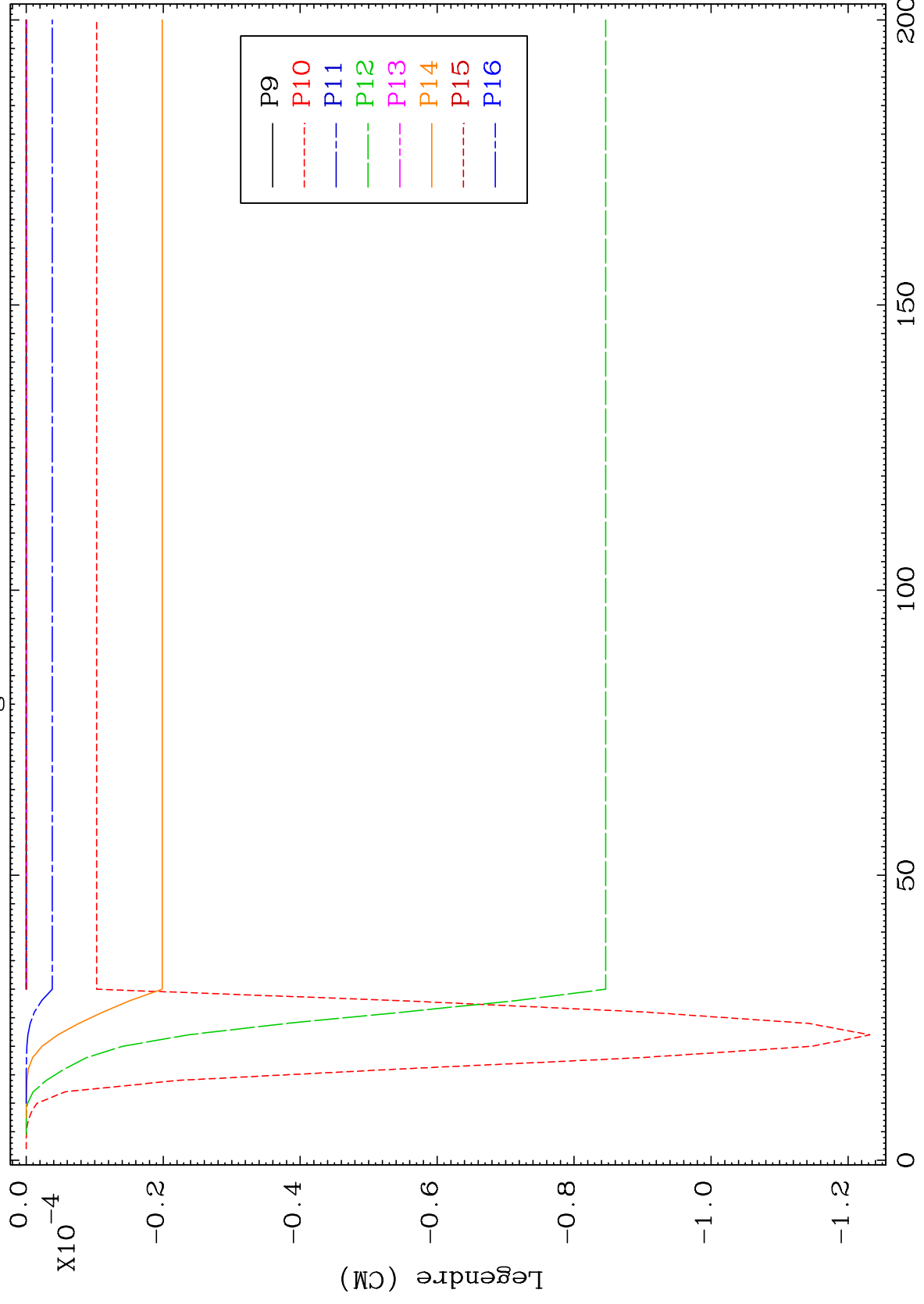
Incident Energy (MeV)

39

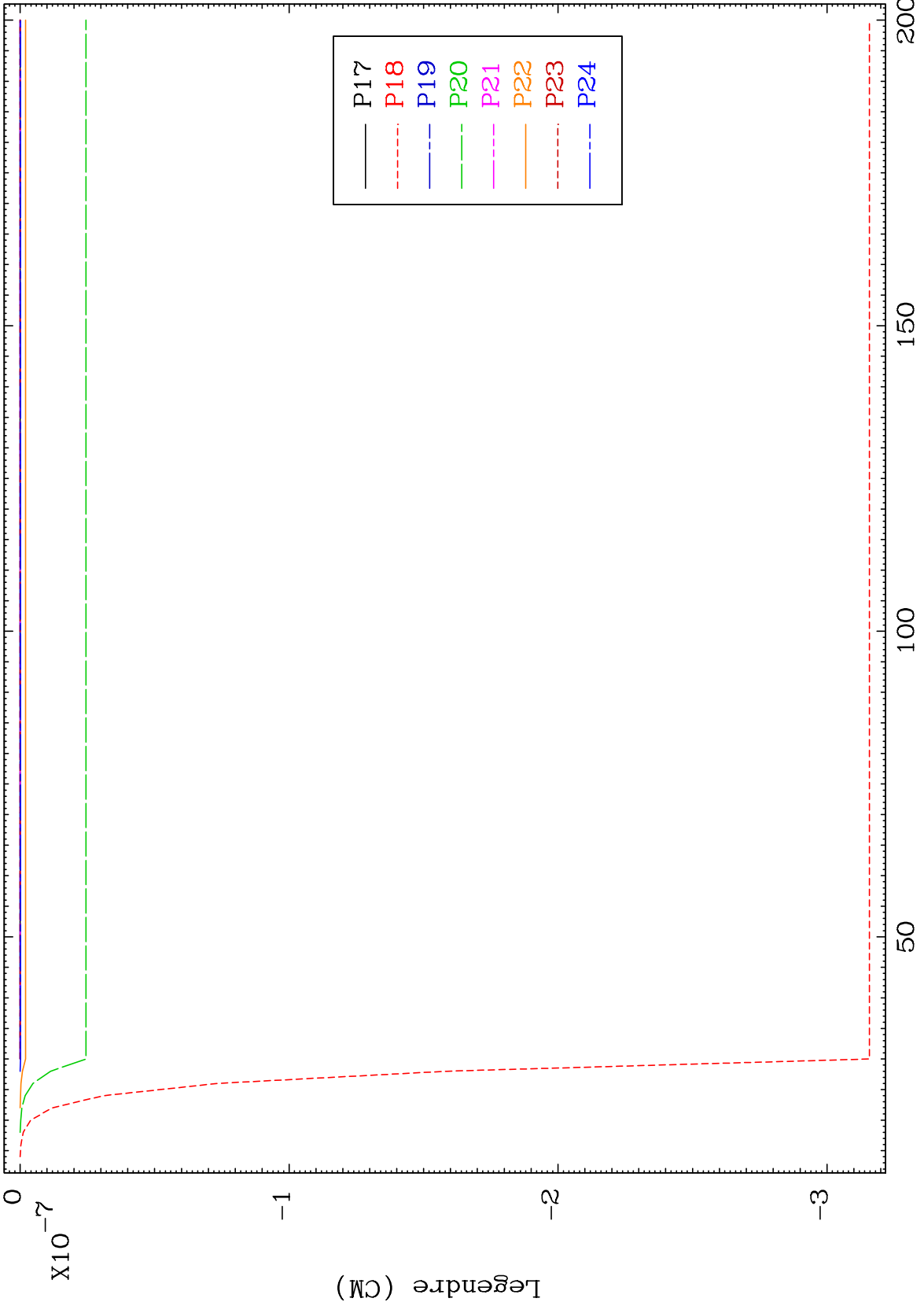
MAT 3440 MT= 58 (n,n') Level Legendre Coefficients 34-Se-79



34-Se-79



MAT 3440 MT= 58 (n,n') Level Legendre Coefficients 34-Se-79

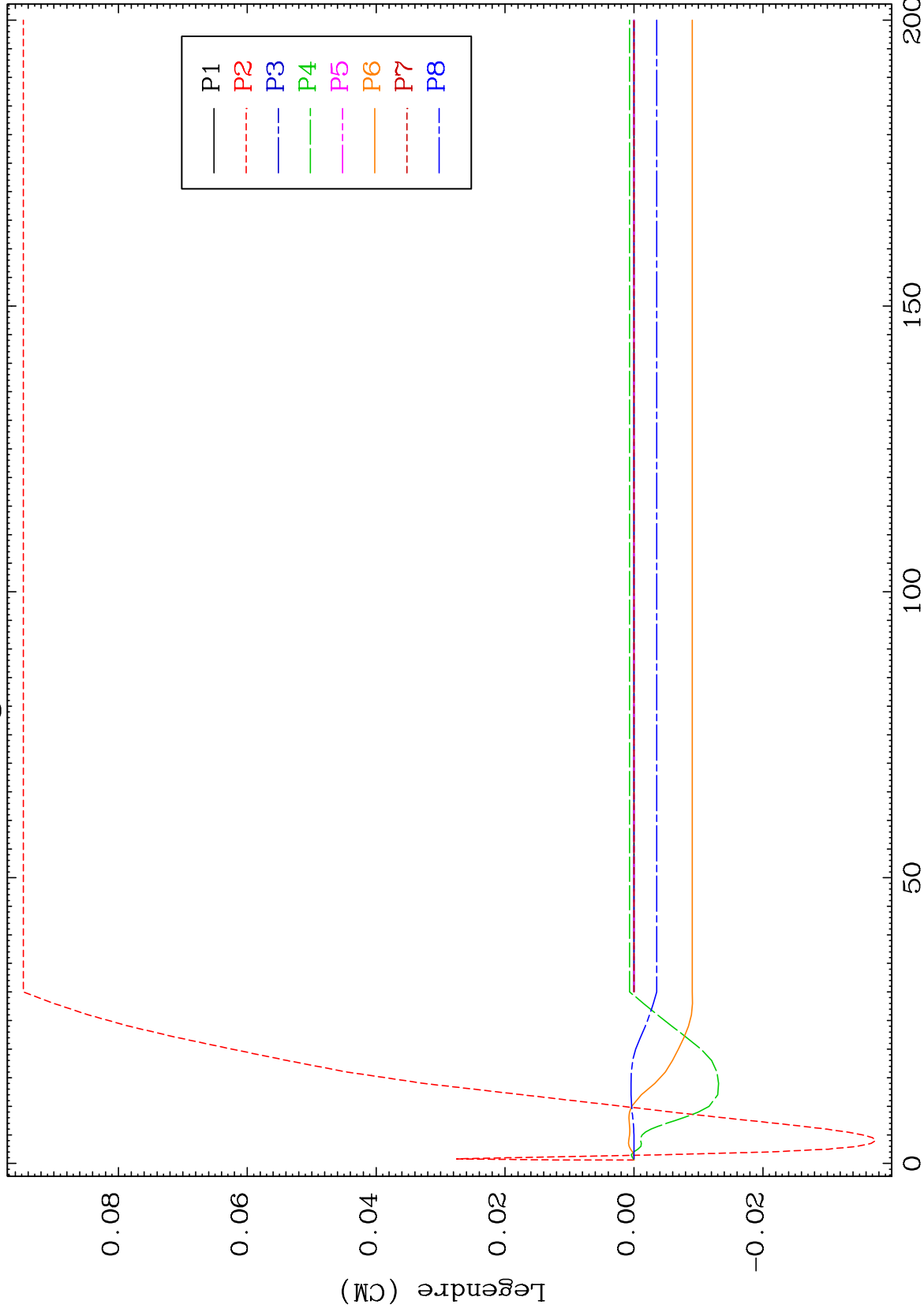


42 34-Se-79

MAT 3440

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

34-Se-79



43

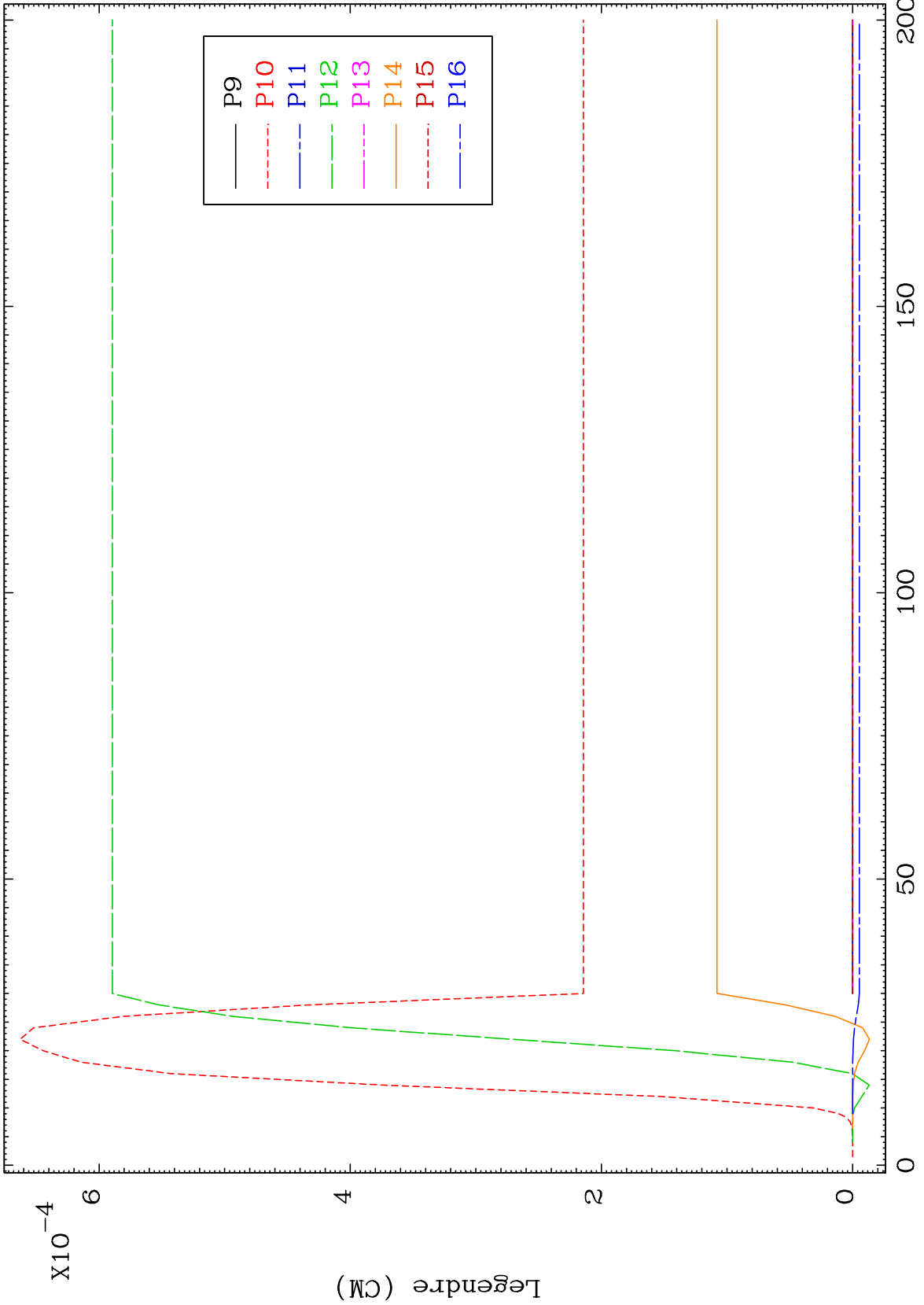
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79

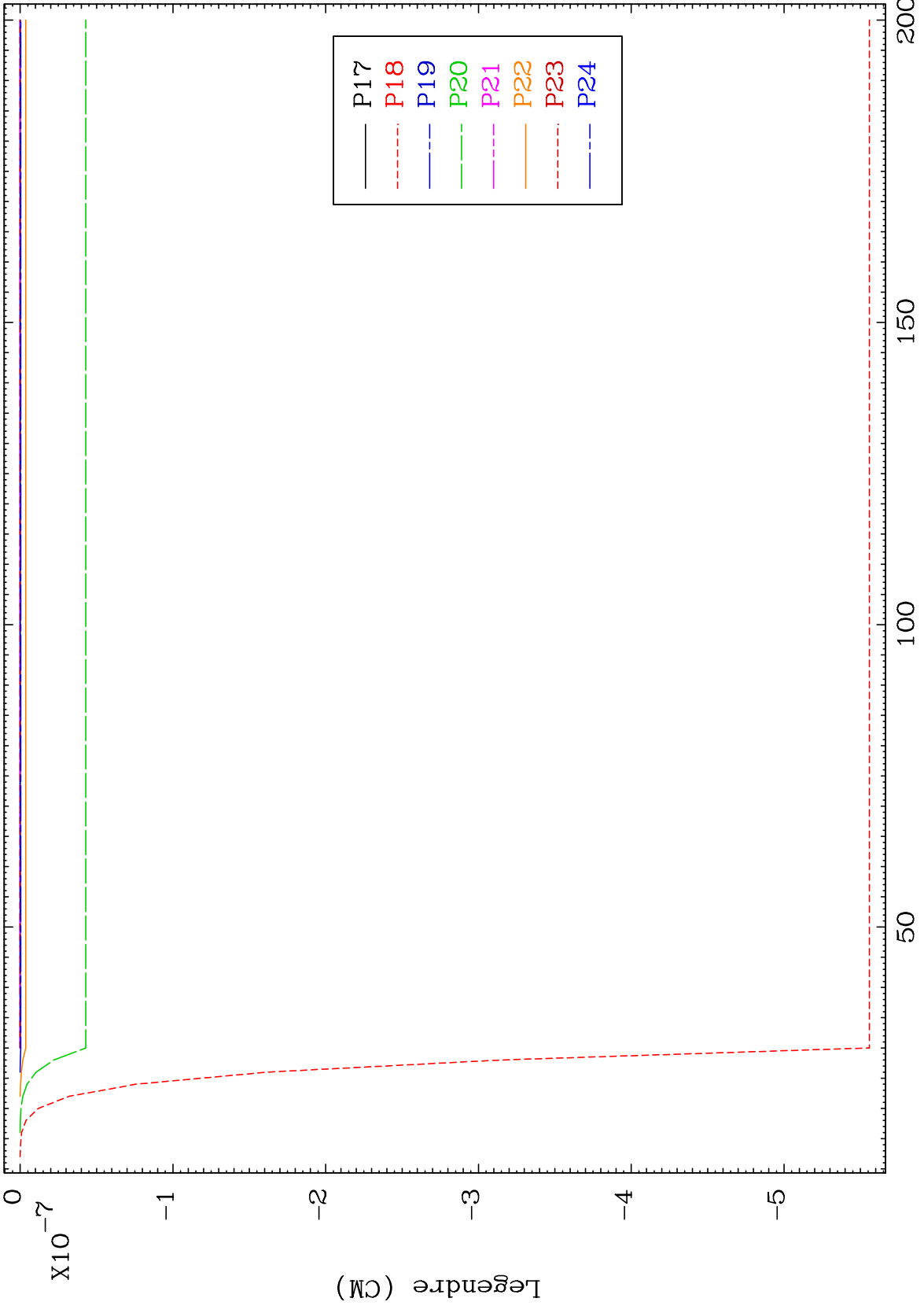


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Incident Energy (MeV)

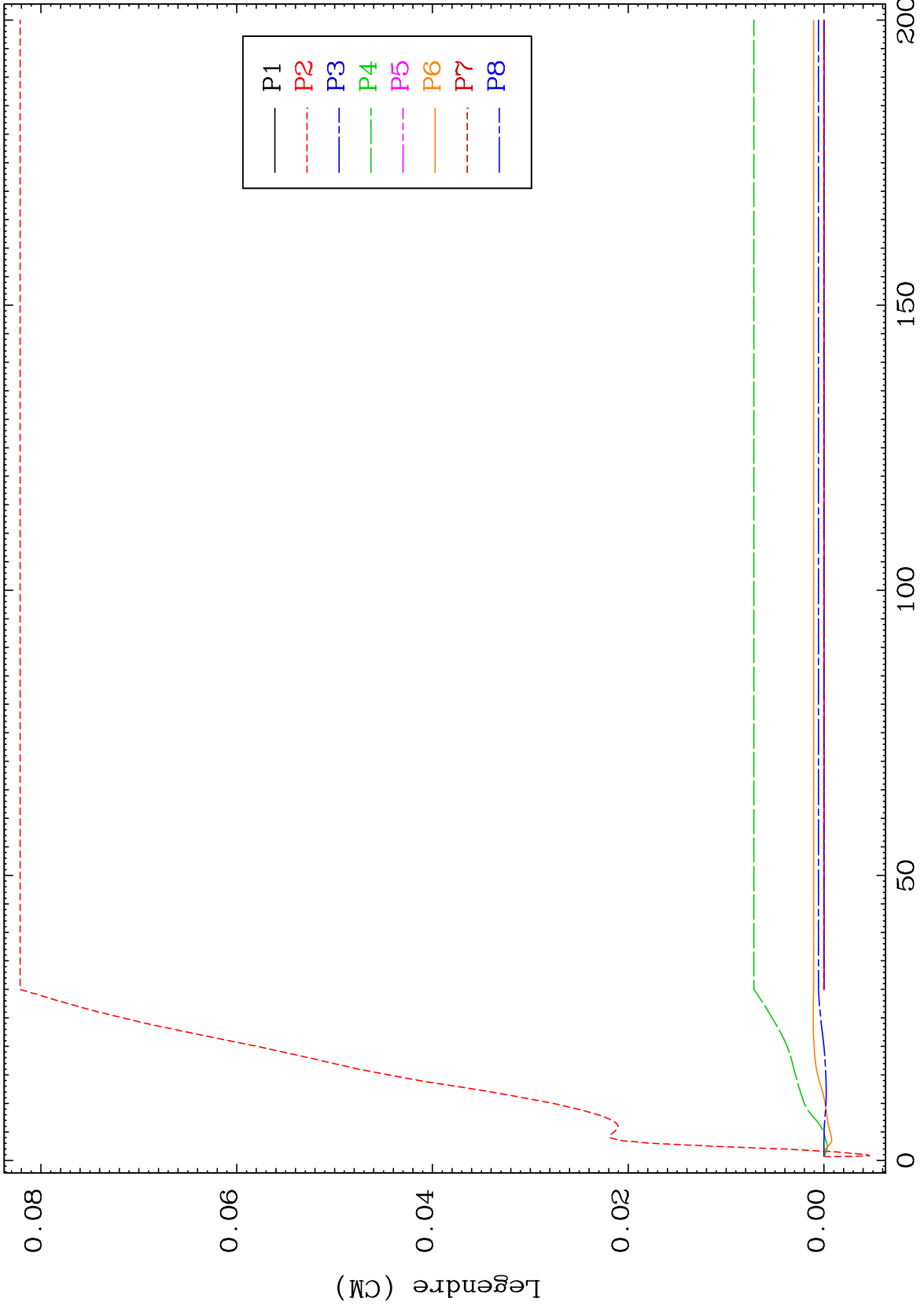
34-Se-79

MAT 3440 MT= 59 (n,n') Level Legendre Coefficients 34-Se-79



45 Incident Energy (MeV) 34-Se-79

MAT 3440 MT= 60 (n,n') Level Legendre Coefficients 34-Se-79

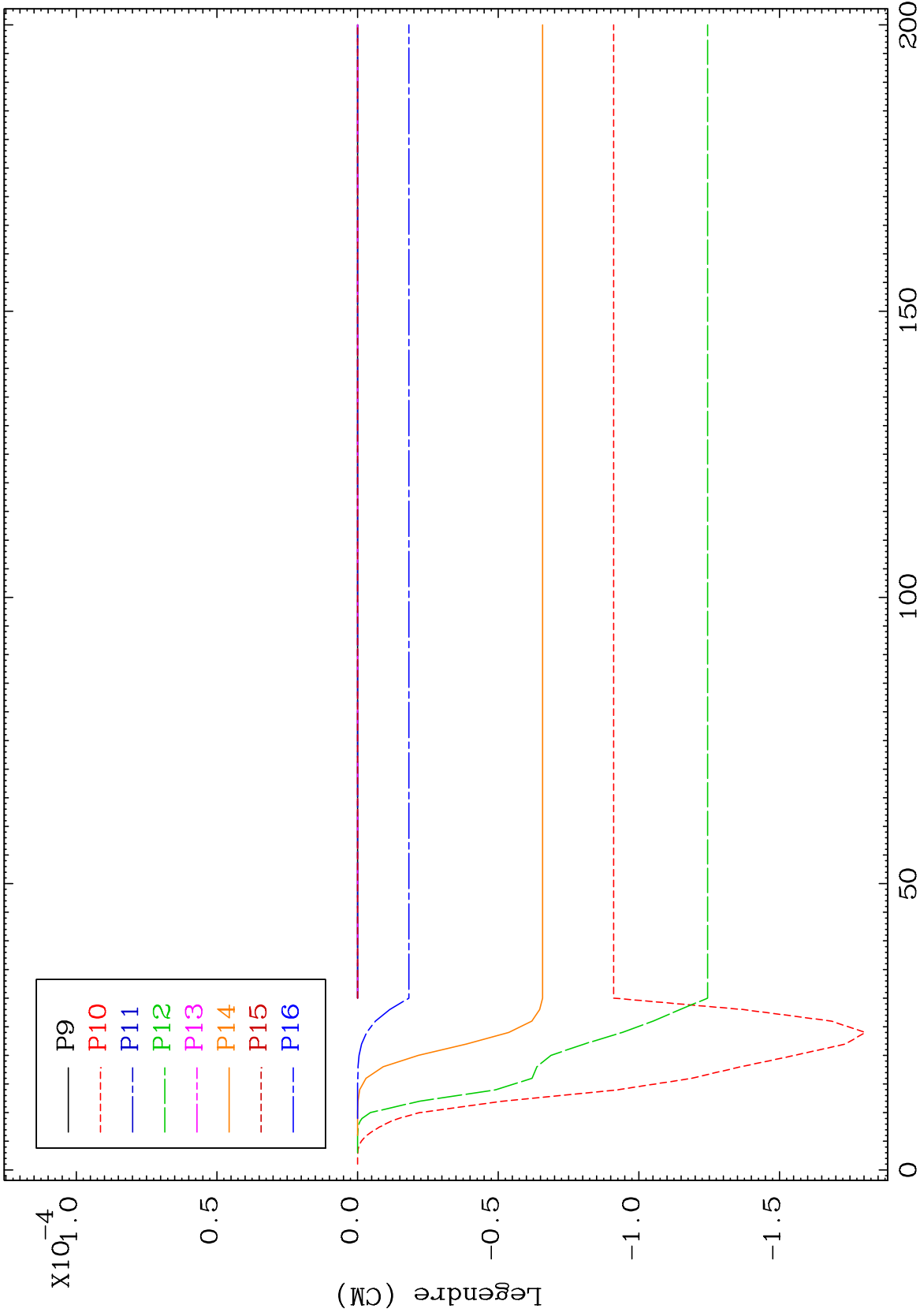


46 34-Se-79

MAT 3440

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

34-Se-79



47

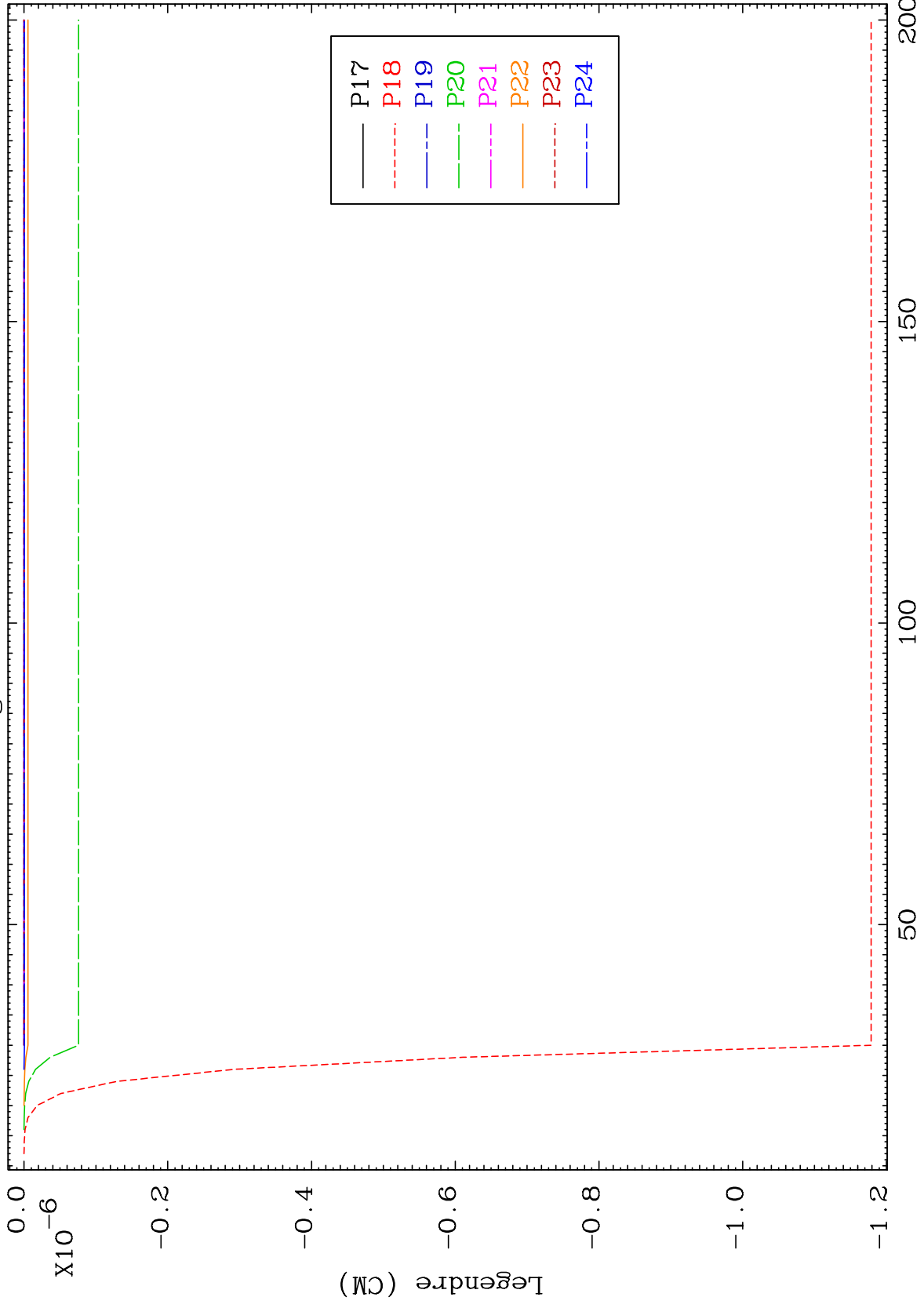
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



34-Se-79

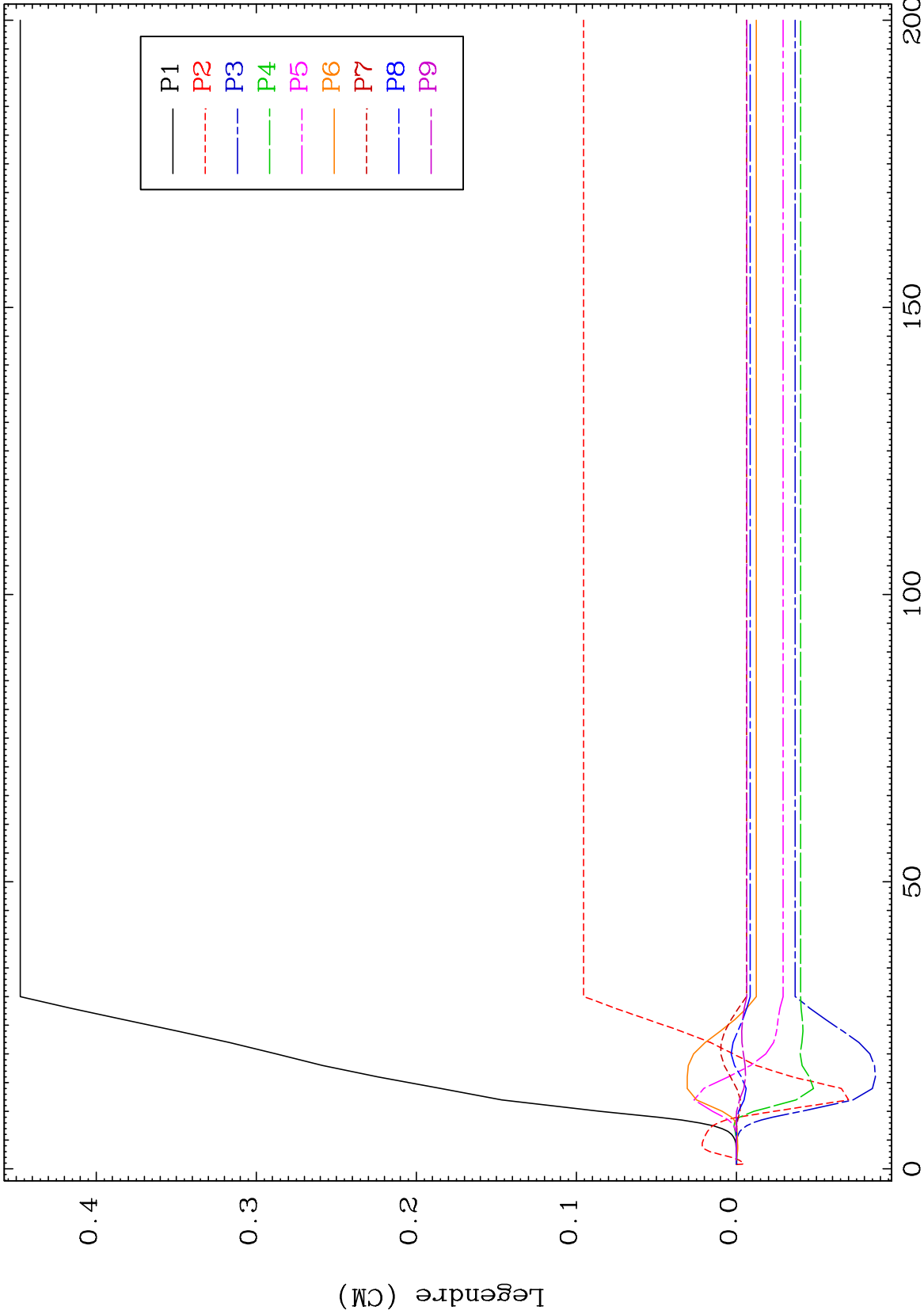
Incident Energy (MeV)

48

MAT 3440

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

34-Se-79



49

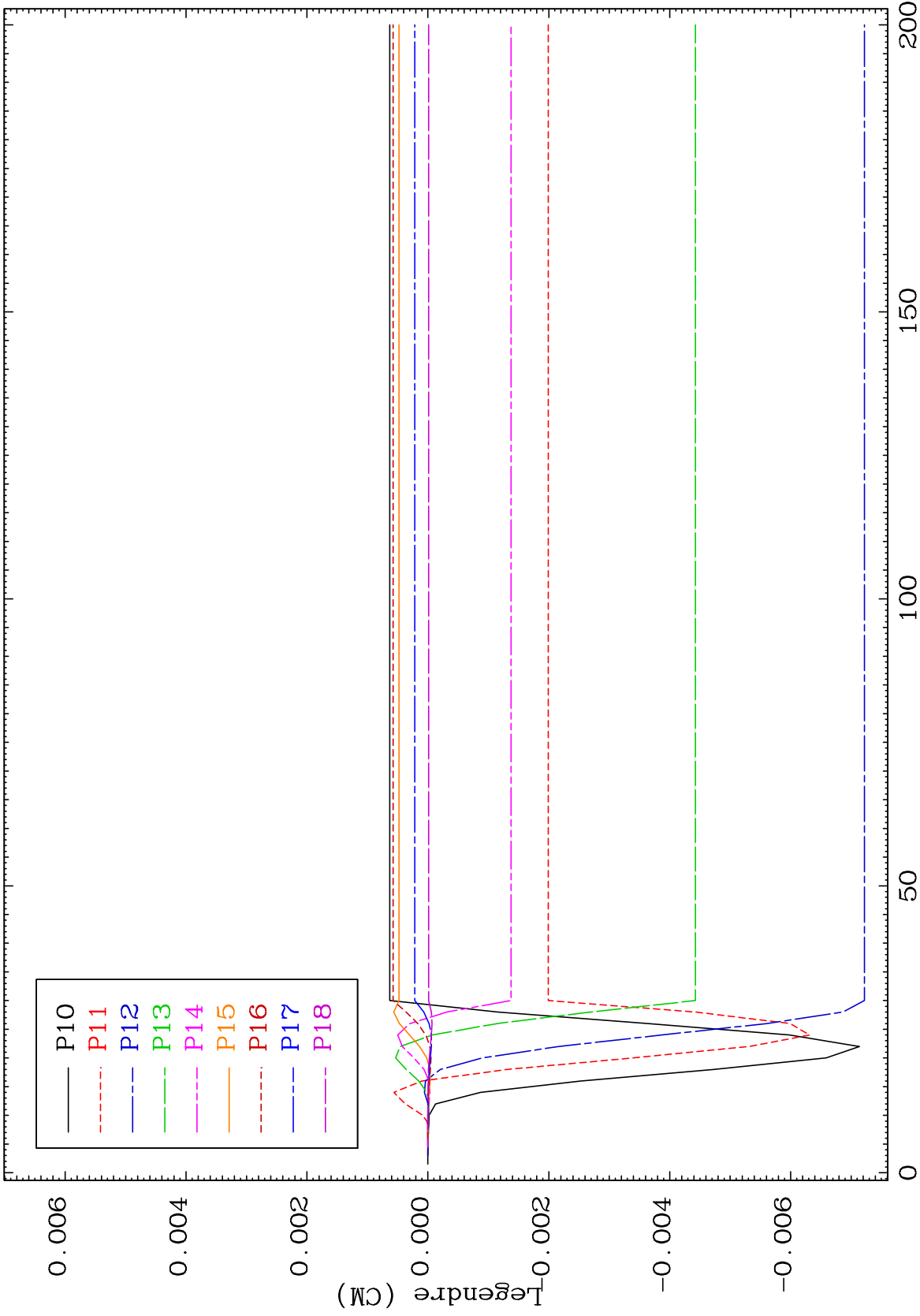
Incident Energy (MeV)

34-Se-79

MAT 3440

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

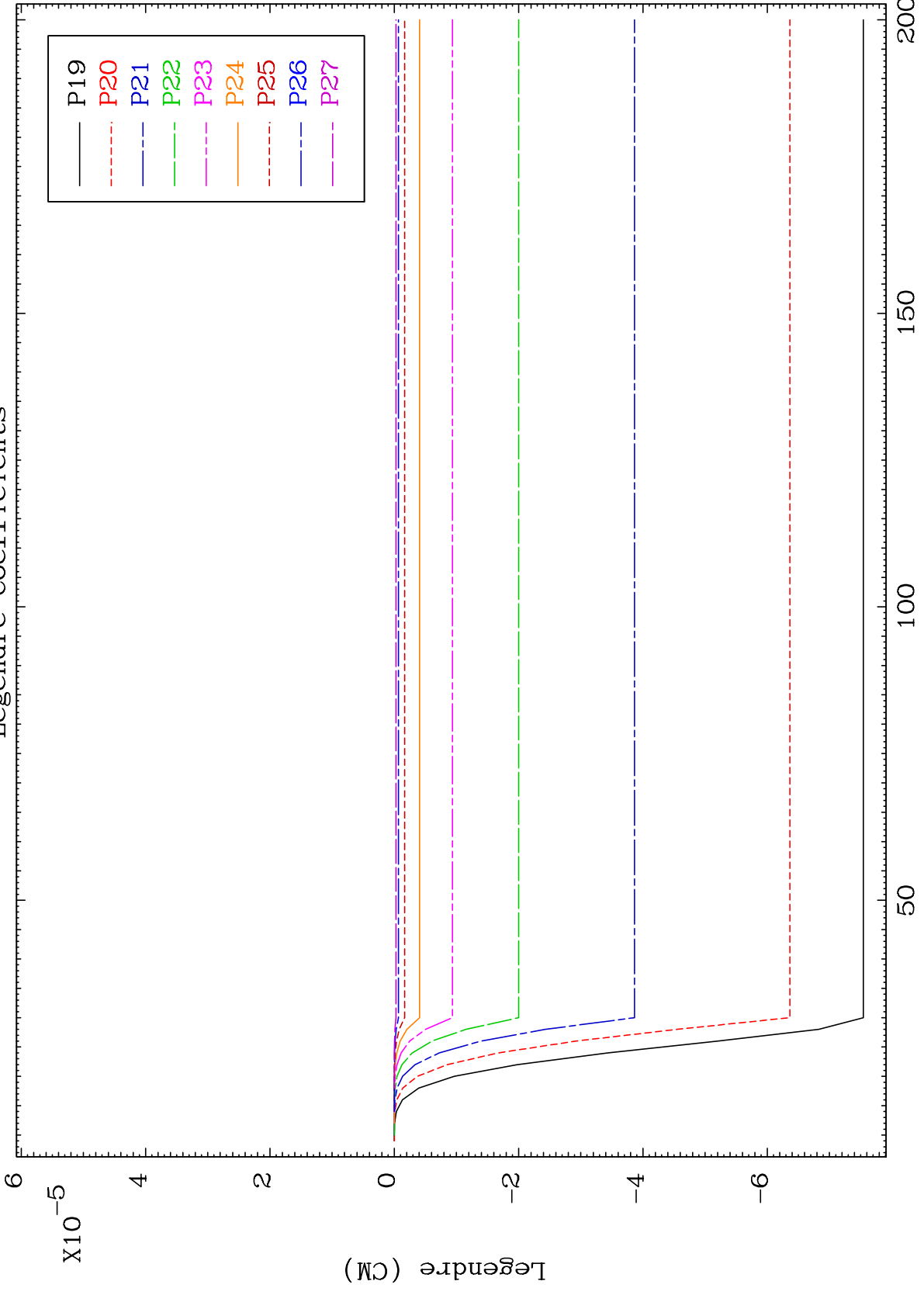
34-Se-79



50

Incident Energy (MeV)

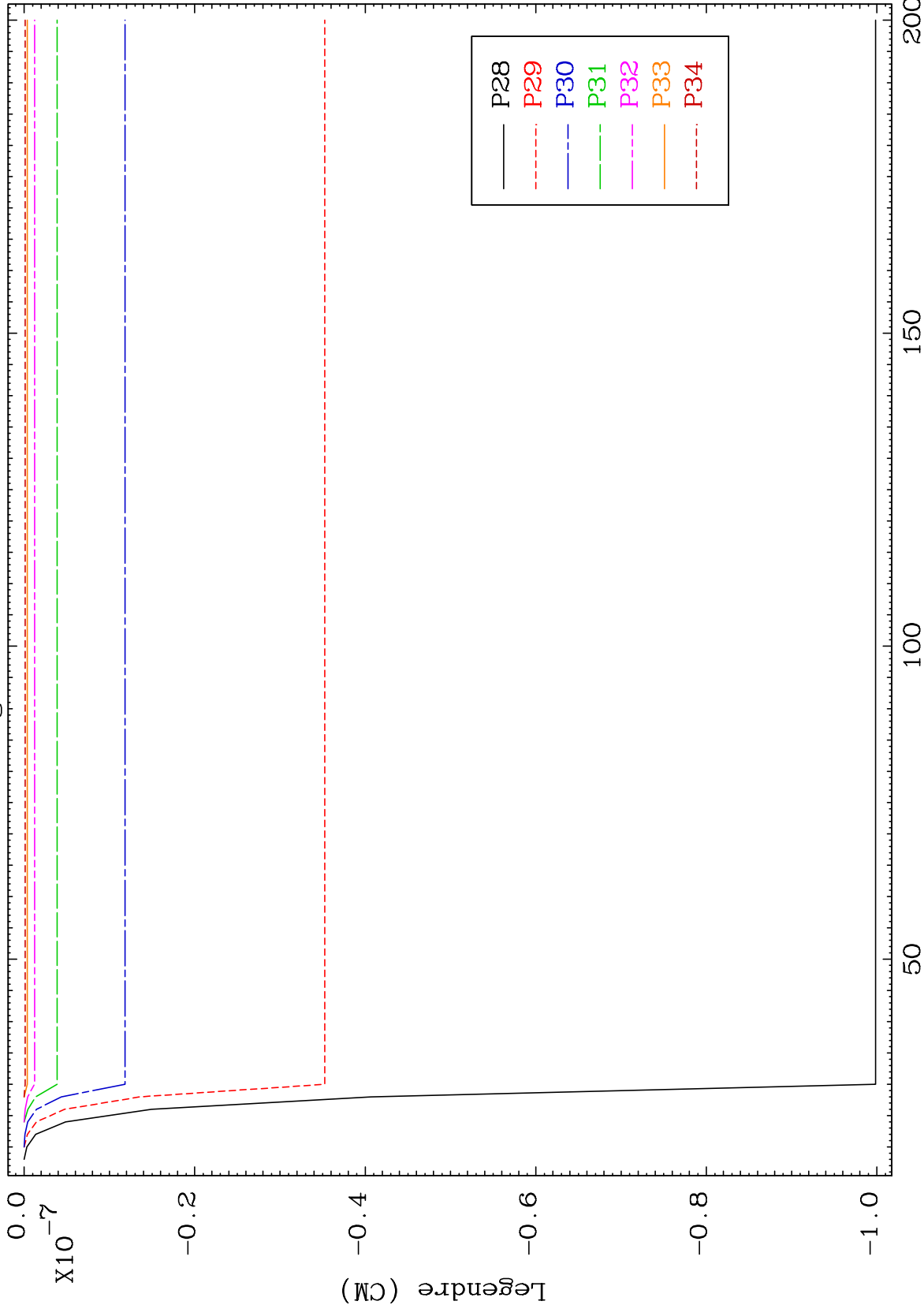
34-Se-79



MAT 3440

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

34-Se-79



34-Se-79

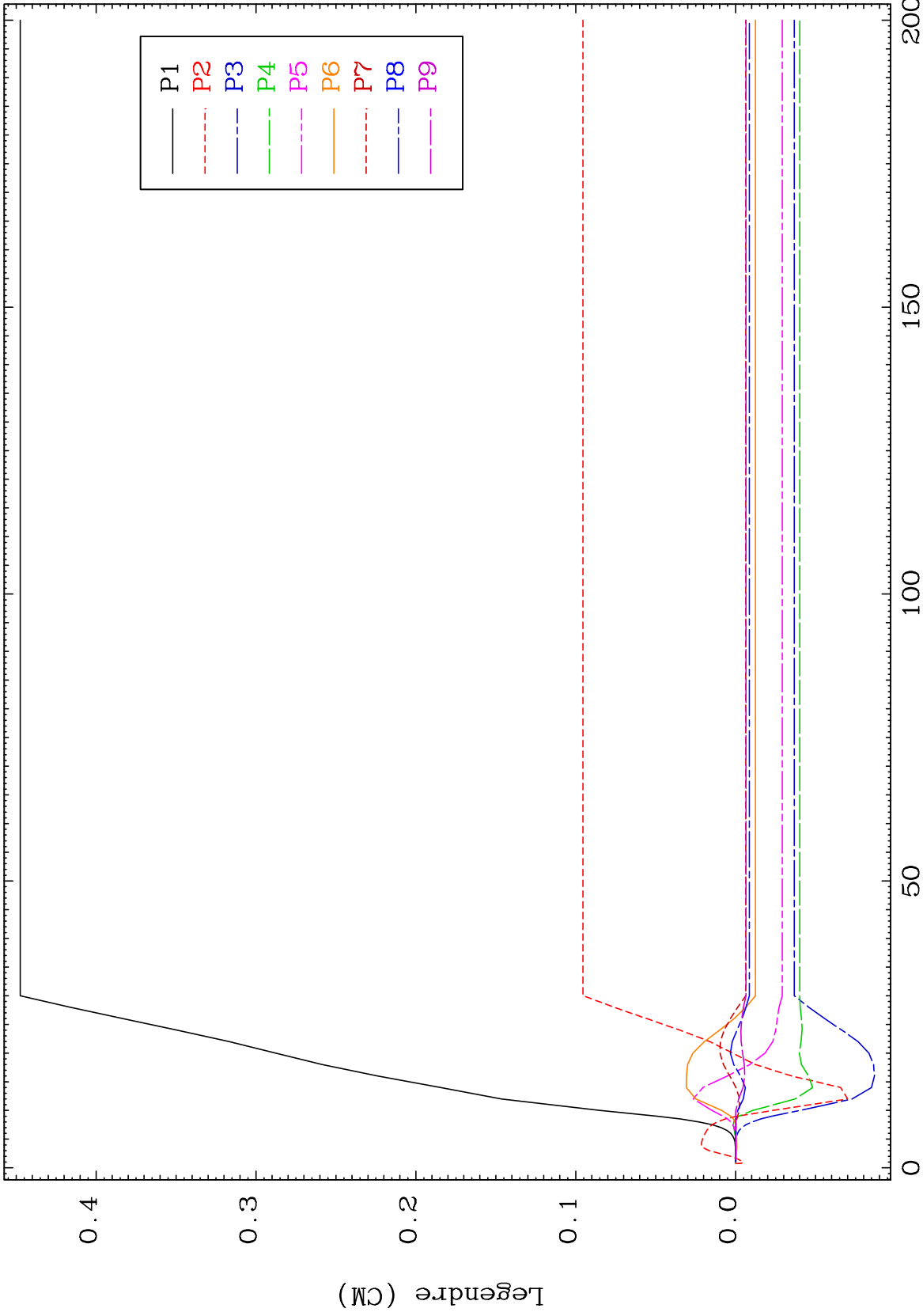
Incident Energy (MeV)

52

MAT 3440

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

34-Se-79



53

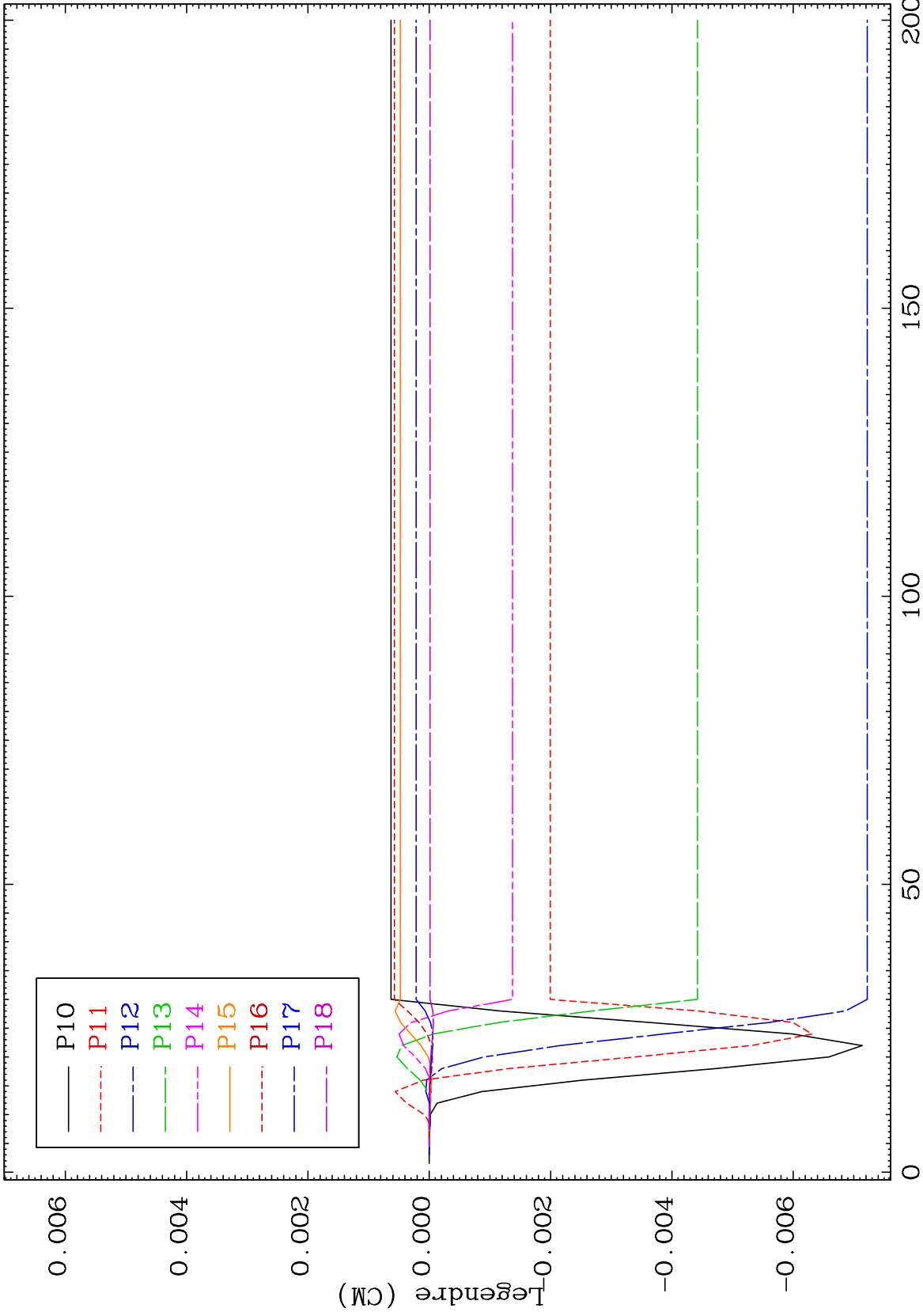
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79

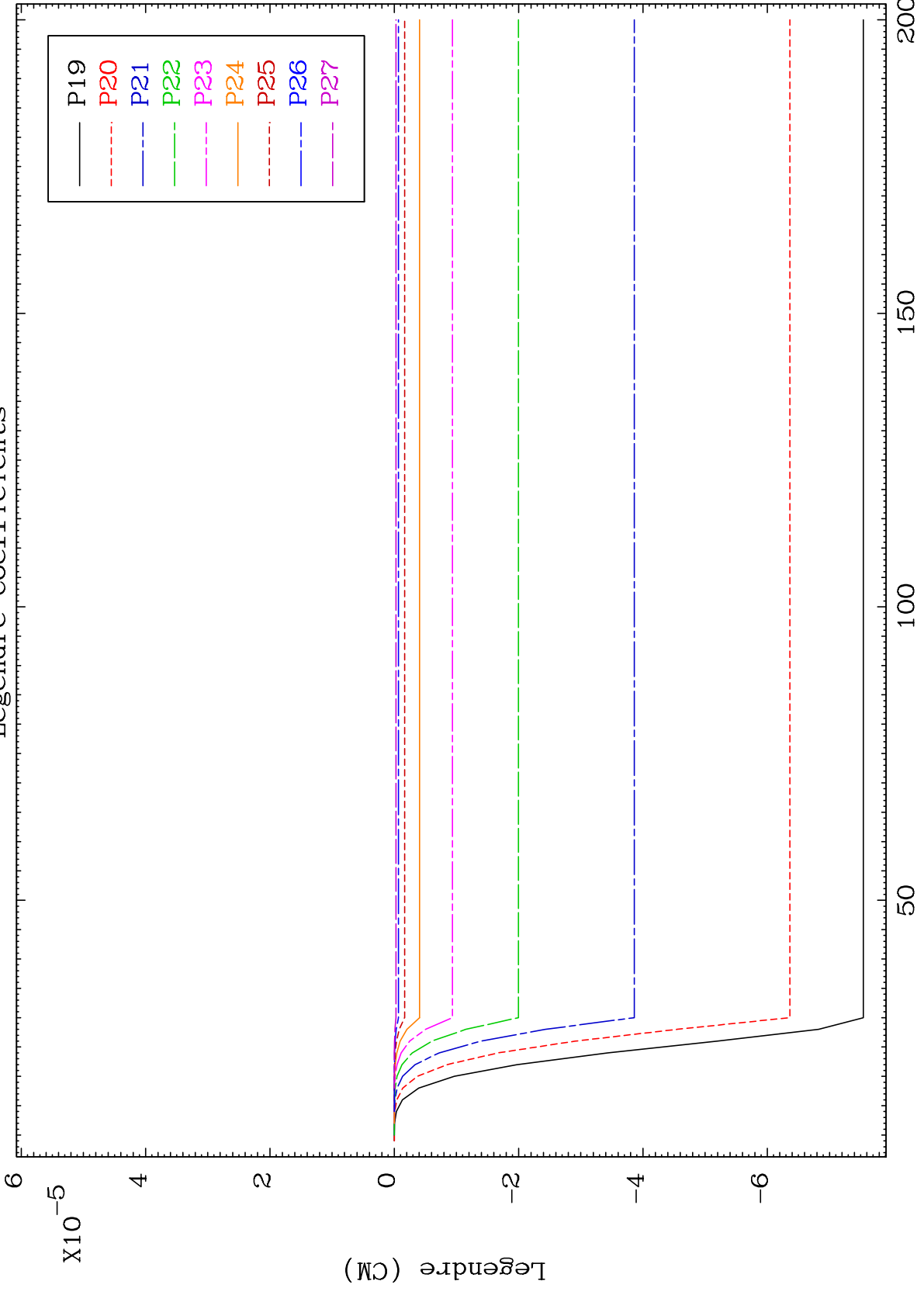


54

Incident Energy (MeV)

34-Se-79

MAT 3440 MT= 62 (n,n') Level Legendre Coefficients 34-Se-79

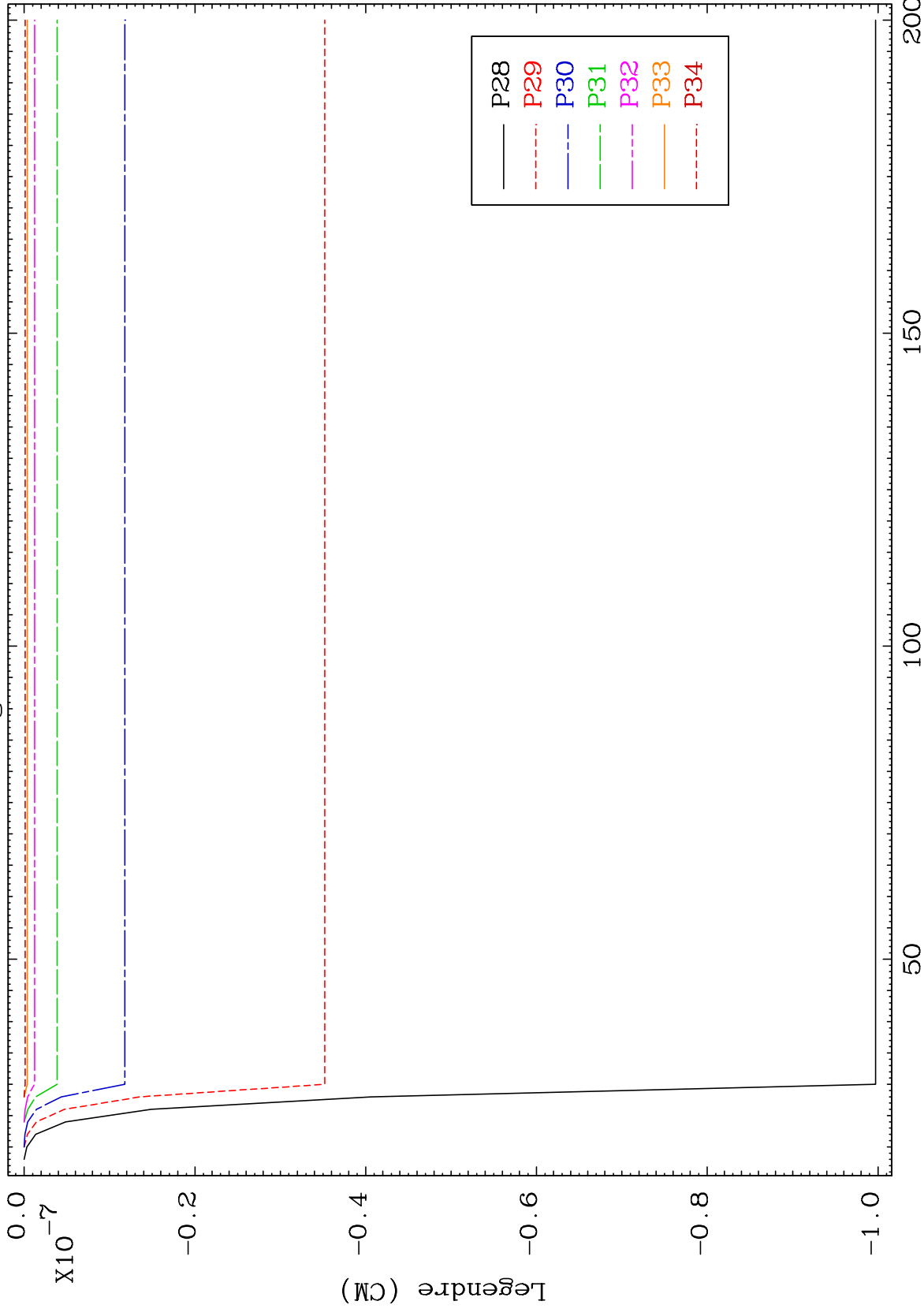


55 34-Se-79

MAT 3440

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

34-Se-79



34-Se-79

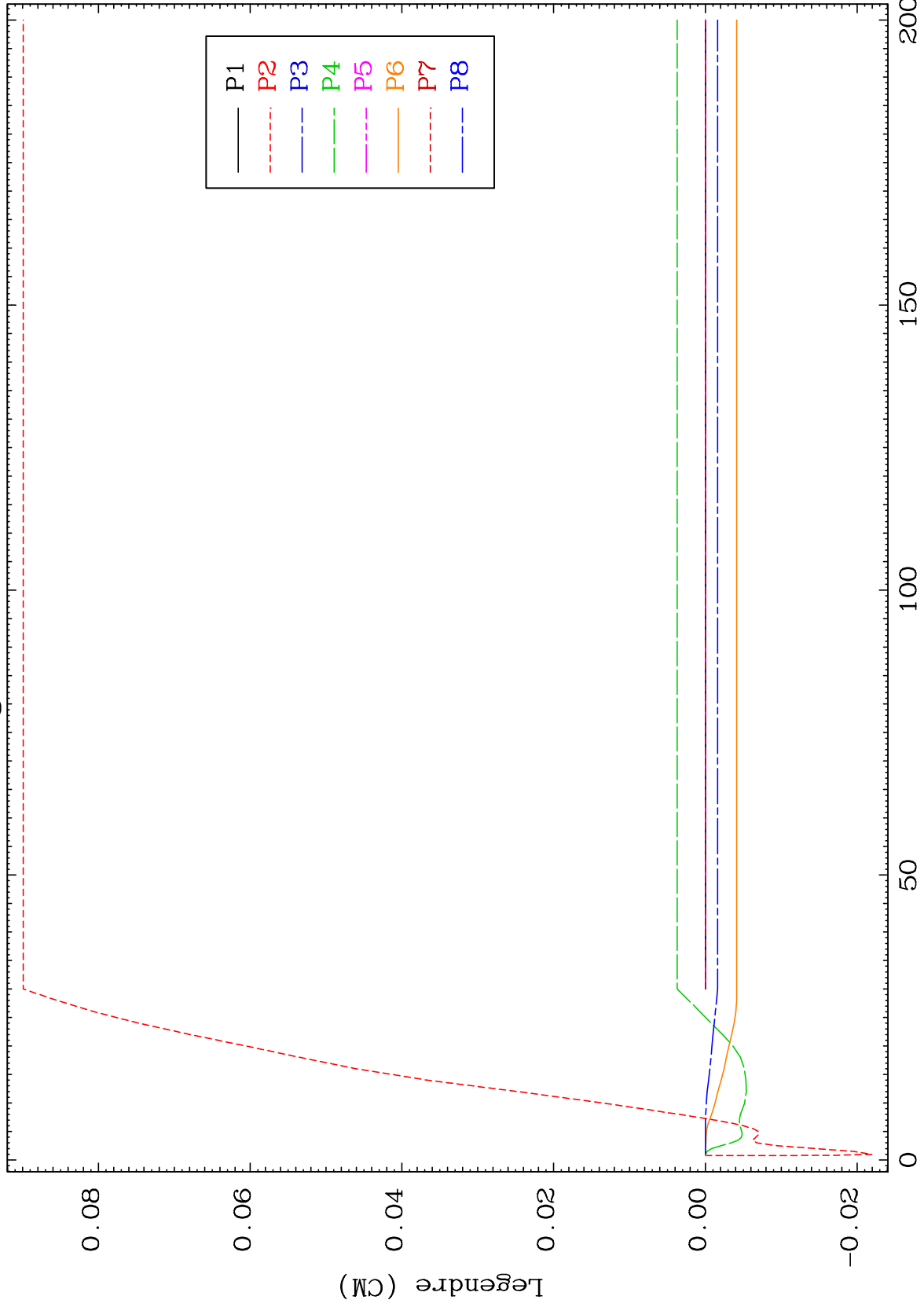
Incident Energy (MeV)

56

MAT 3440

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

34-Se-79



57

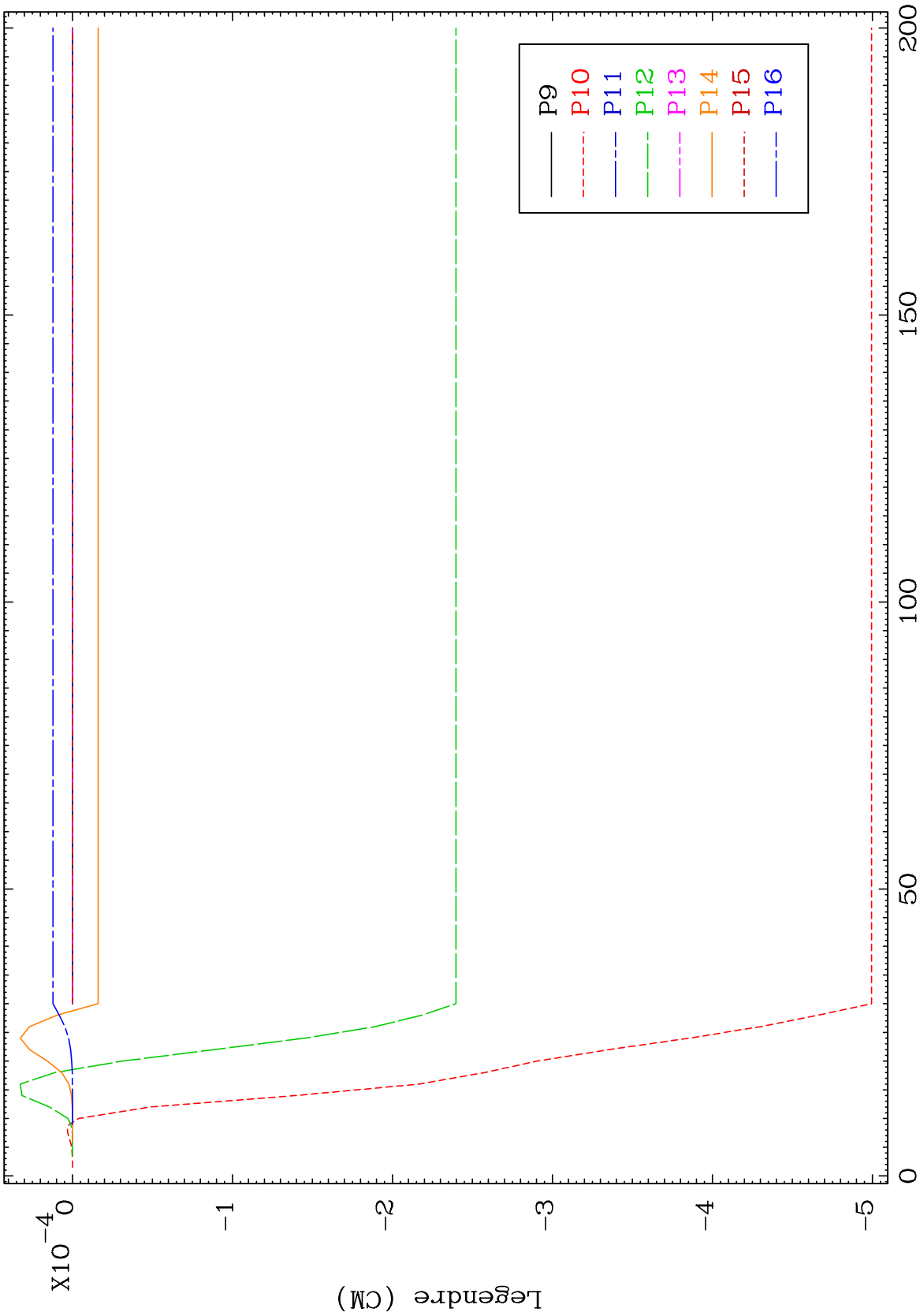
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79

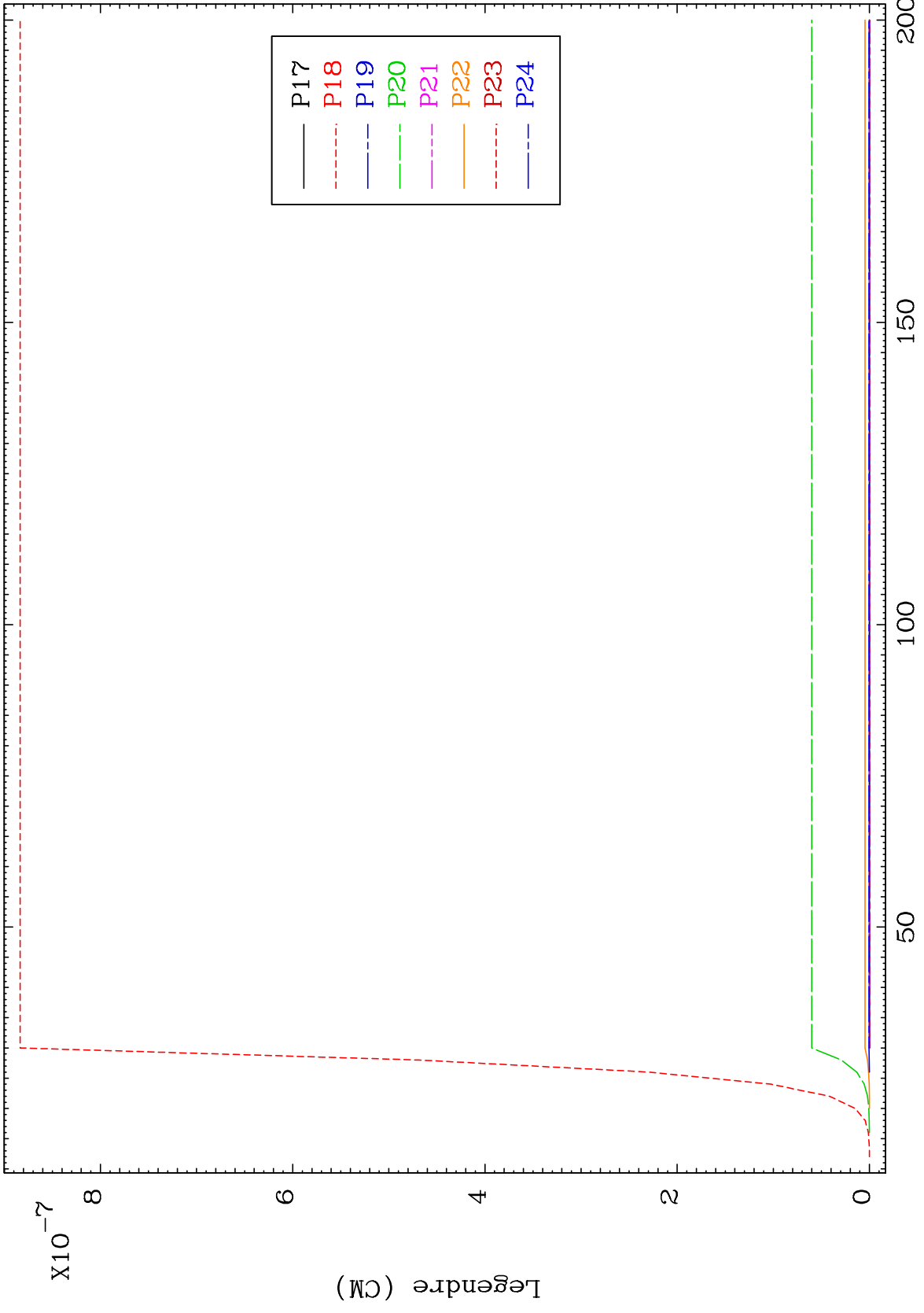


58

Incident Energy (MeV)

34-Se-79

MAT 3440 MT= 63 (n,n') Level Legendre Coefficients 34-Se-79

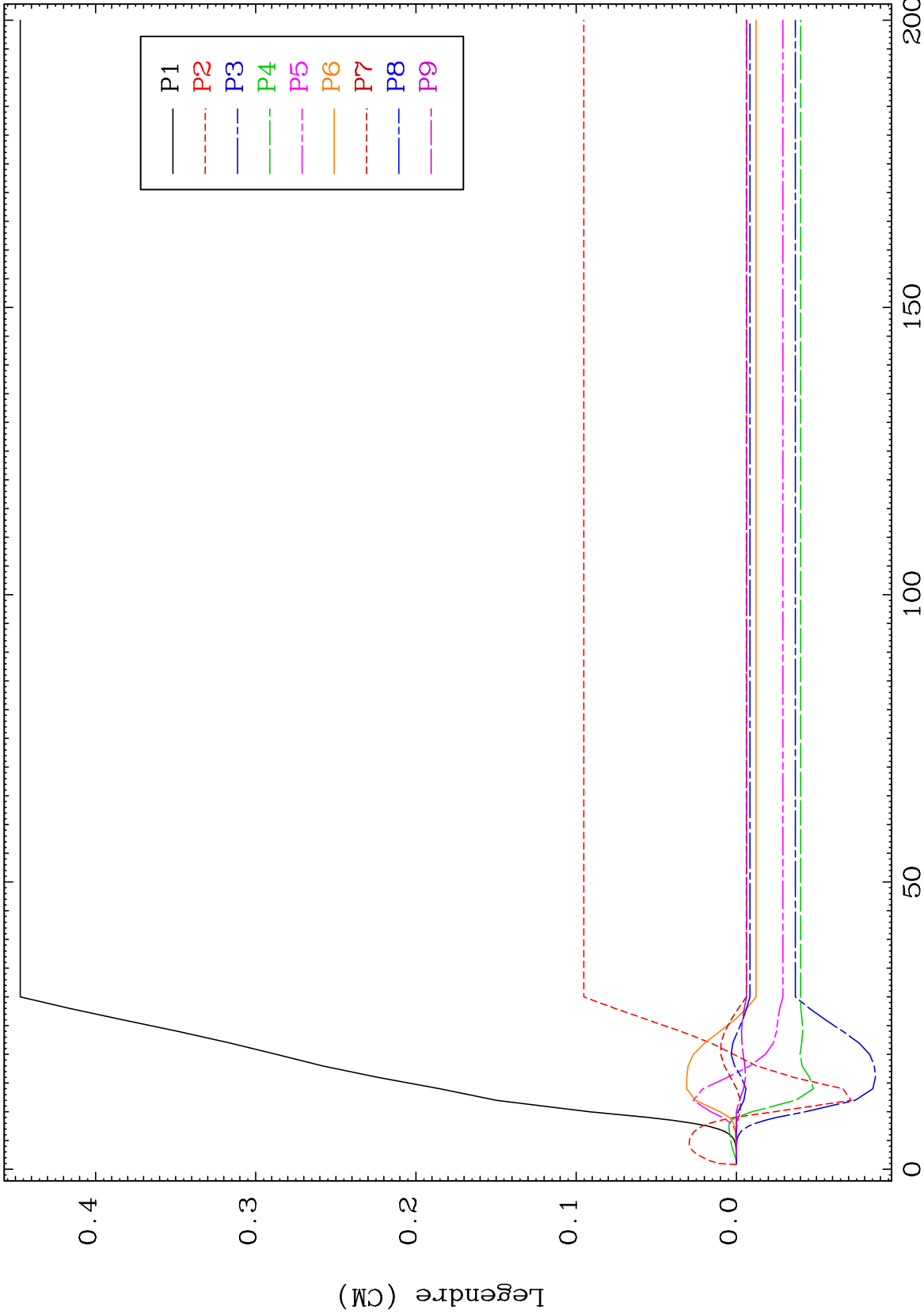


59 100 150 200 34-Se-79

MAT 3440

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

34-Se-79



34-Se-79

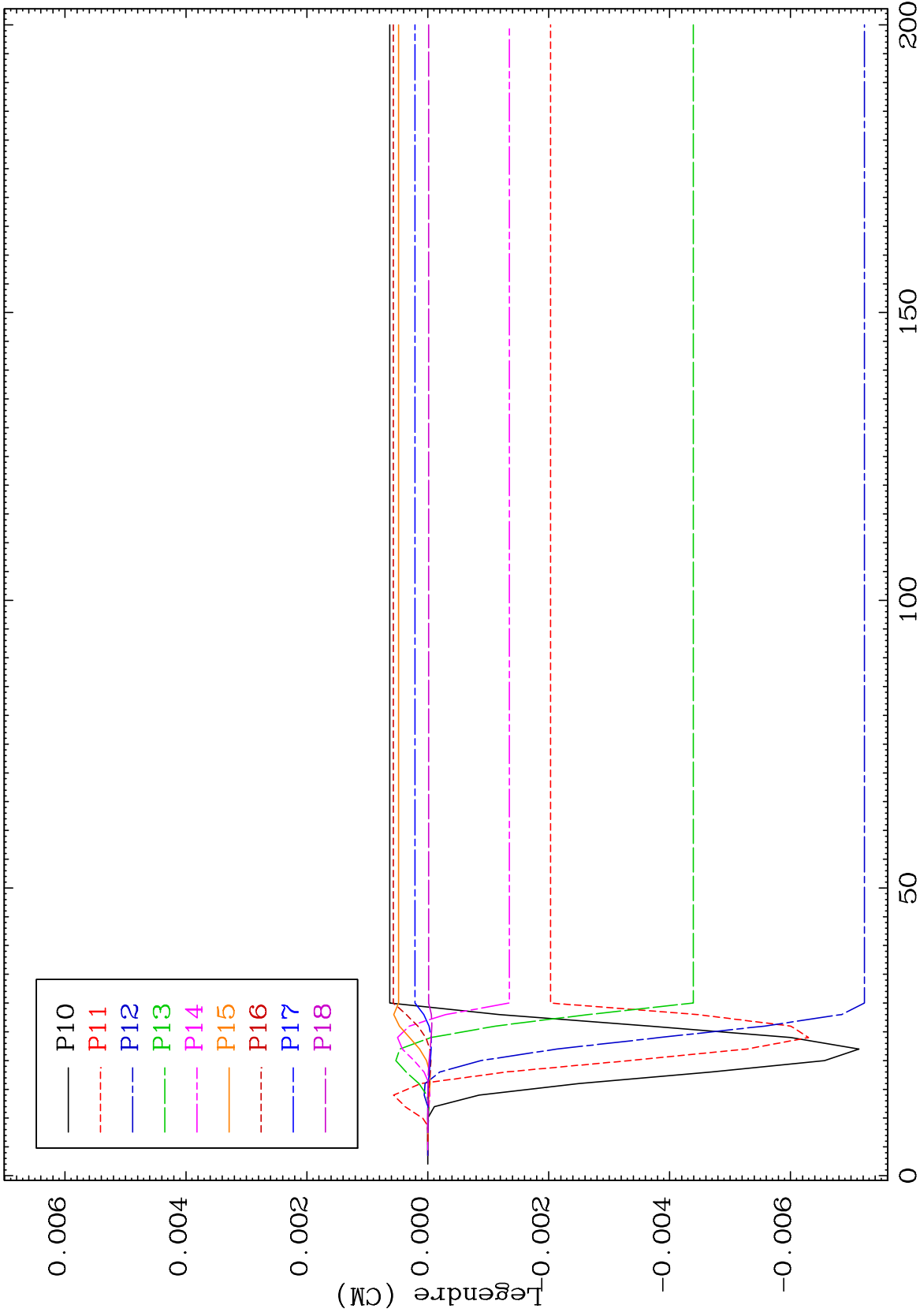
Incident Energy (MeV)

60

MAT 3440

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

34-Se-79

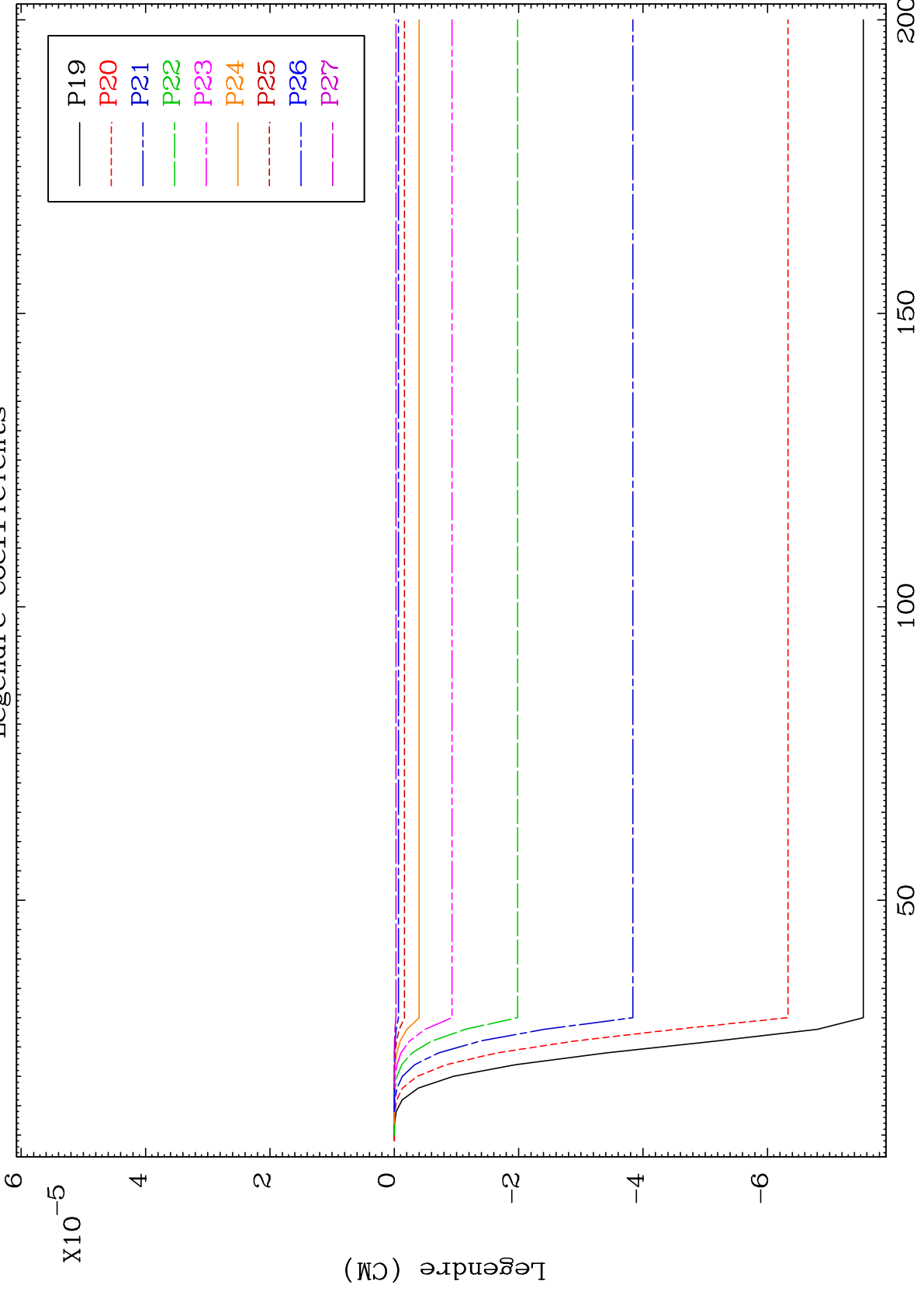


61

Incident Energy (MeV)

34-Se-79

MAT 3440 MT= 64 (n,n') Level Legendre Coefficients 34-Se-79

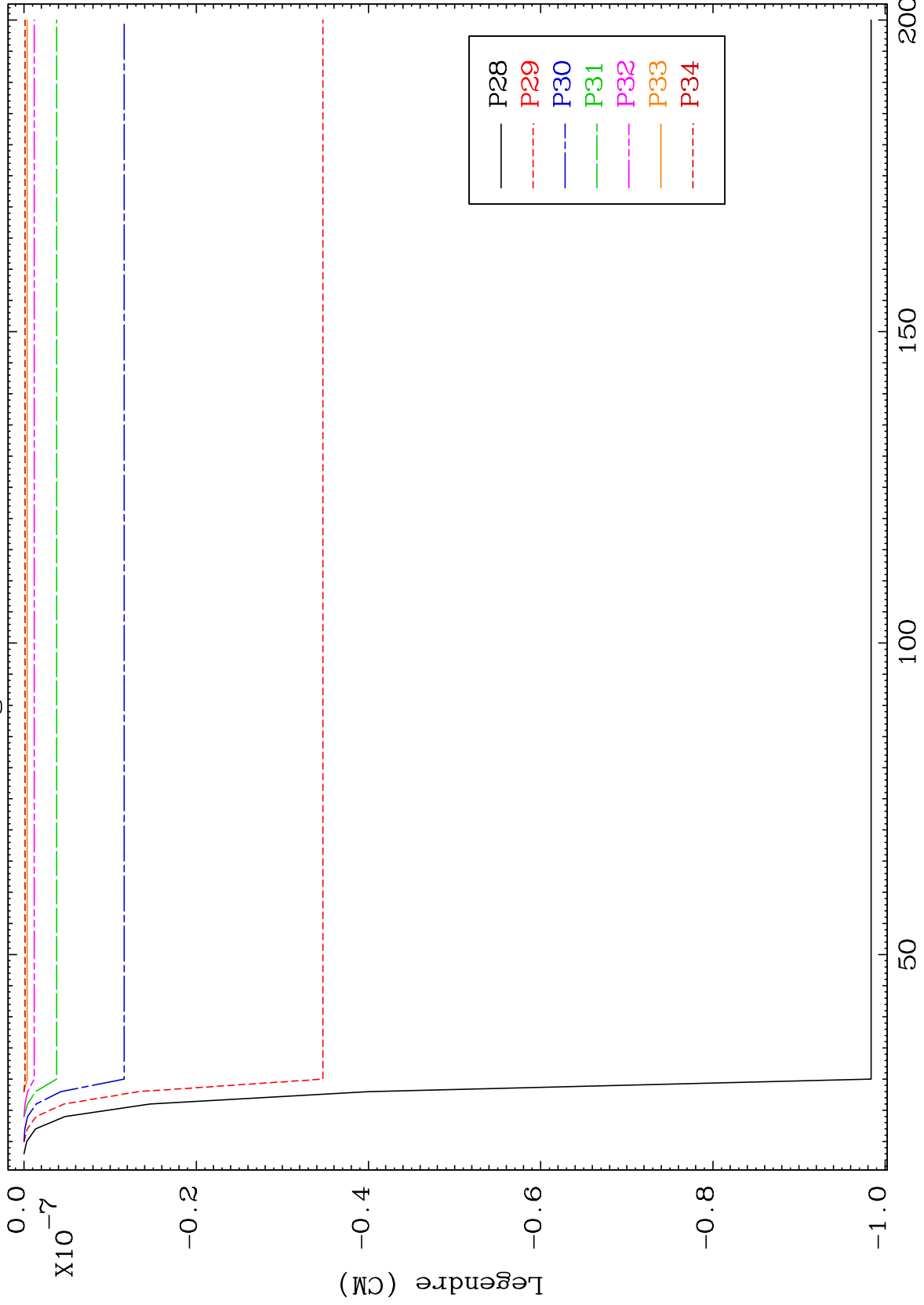


62 34-Se-79

MAT 3440

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

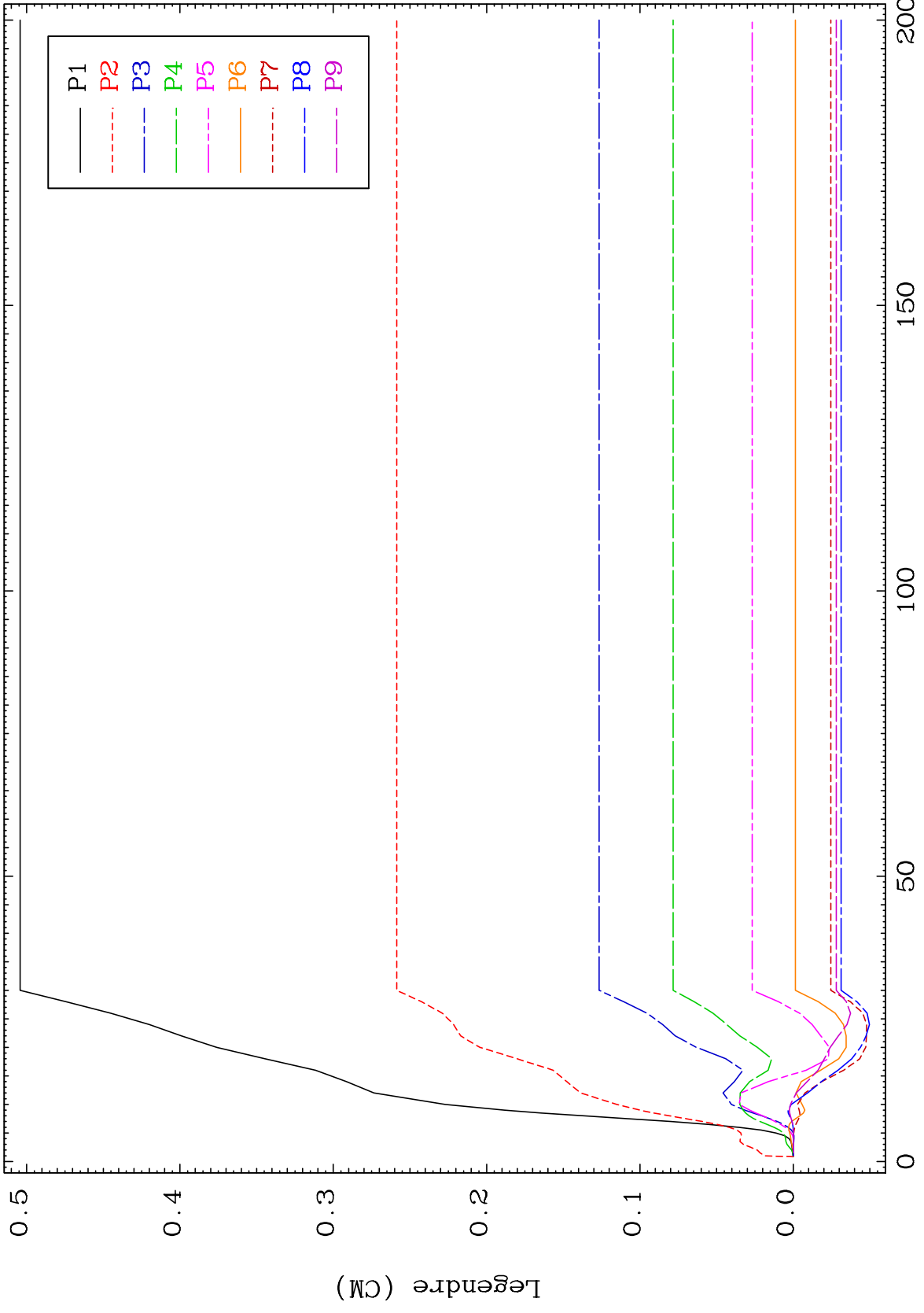
34-Se-79



63

34-Se-79

MAT 3440 MT= 65 (n,n') Level Legendre Coefficients 34-Se-79

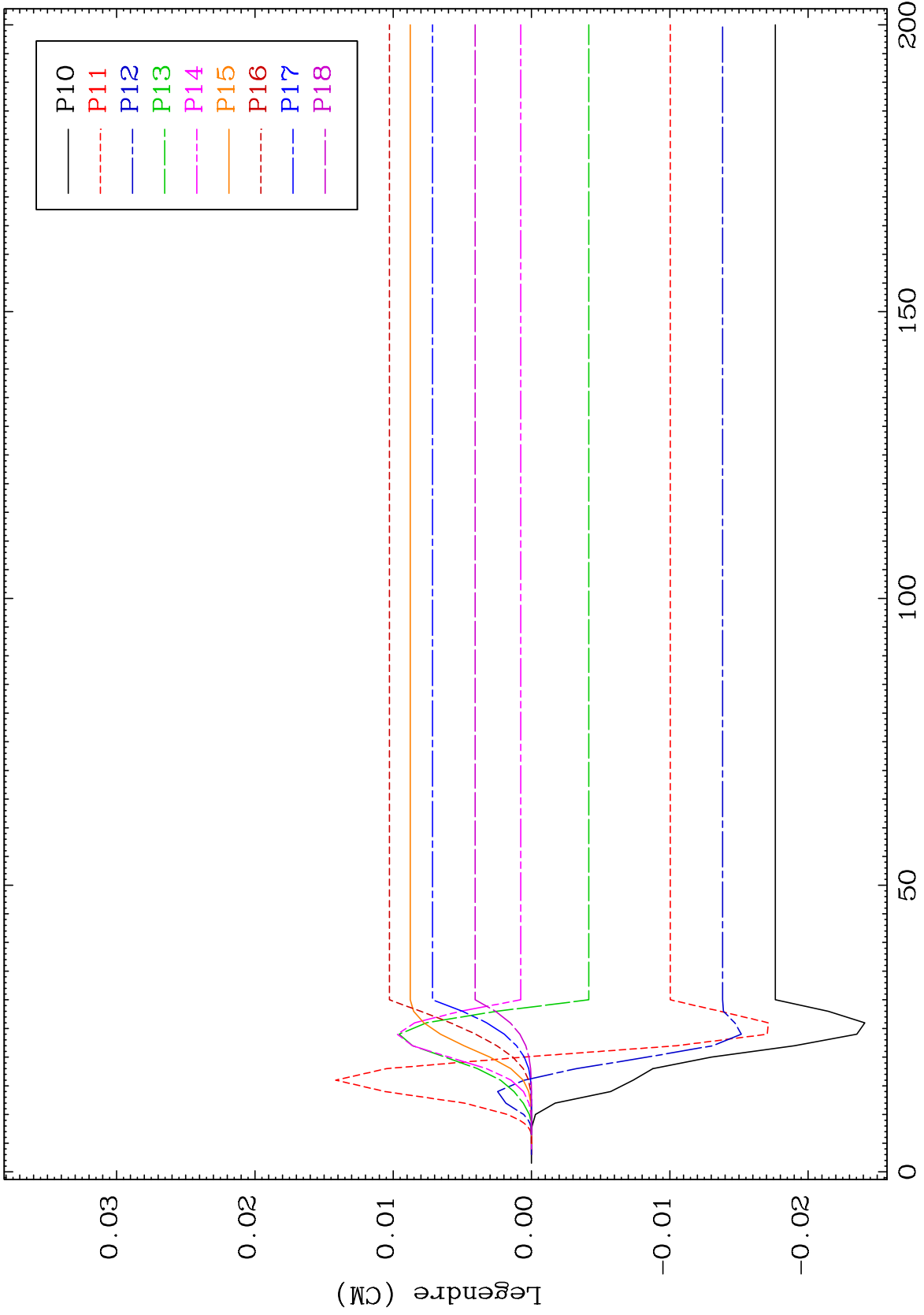


64 34-Se-79

MAT 3440

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

<sup>34</sup>Se-79



65

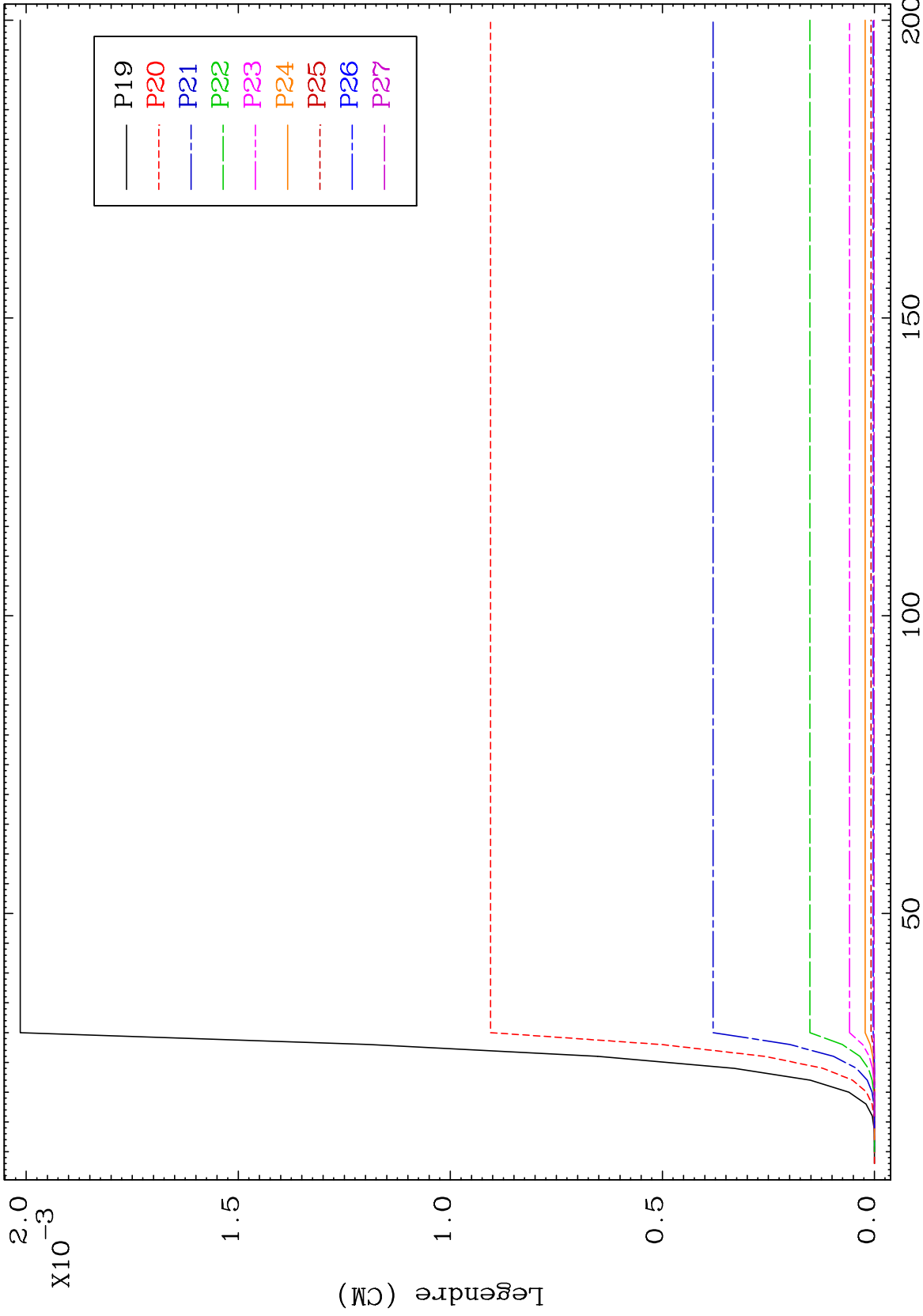
Incident Energy (MeV)

<sup>34</sup>Se-79

MAT 3440

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

34-Se-79



66

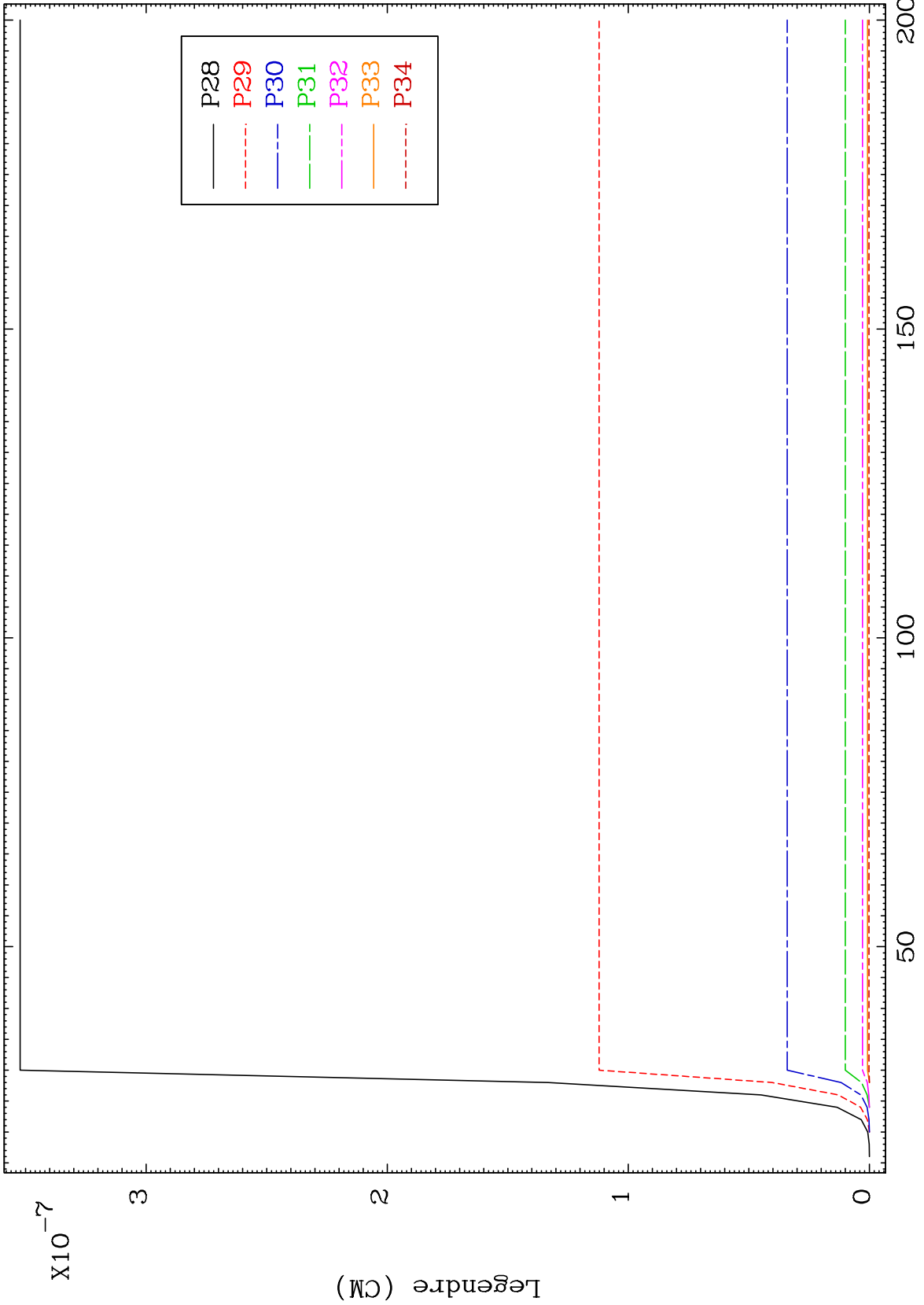
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



67

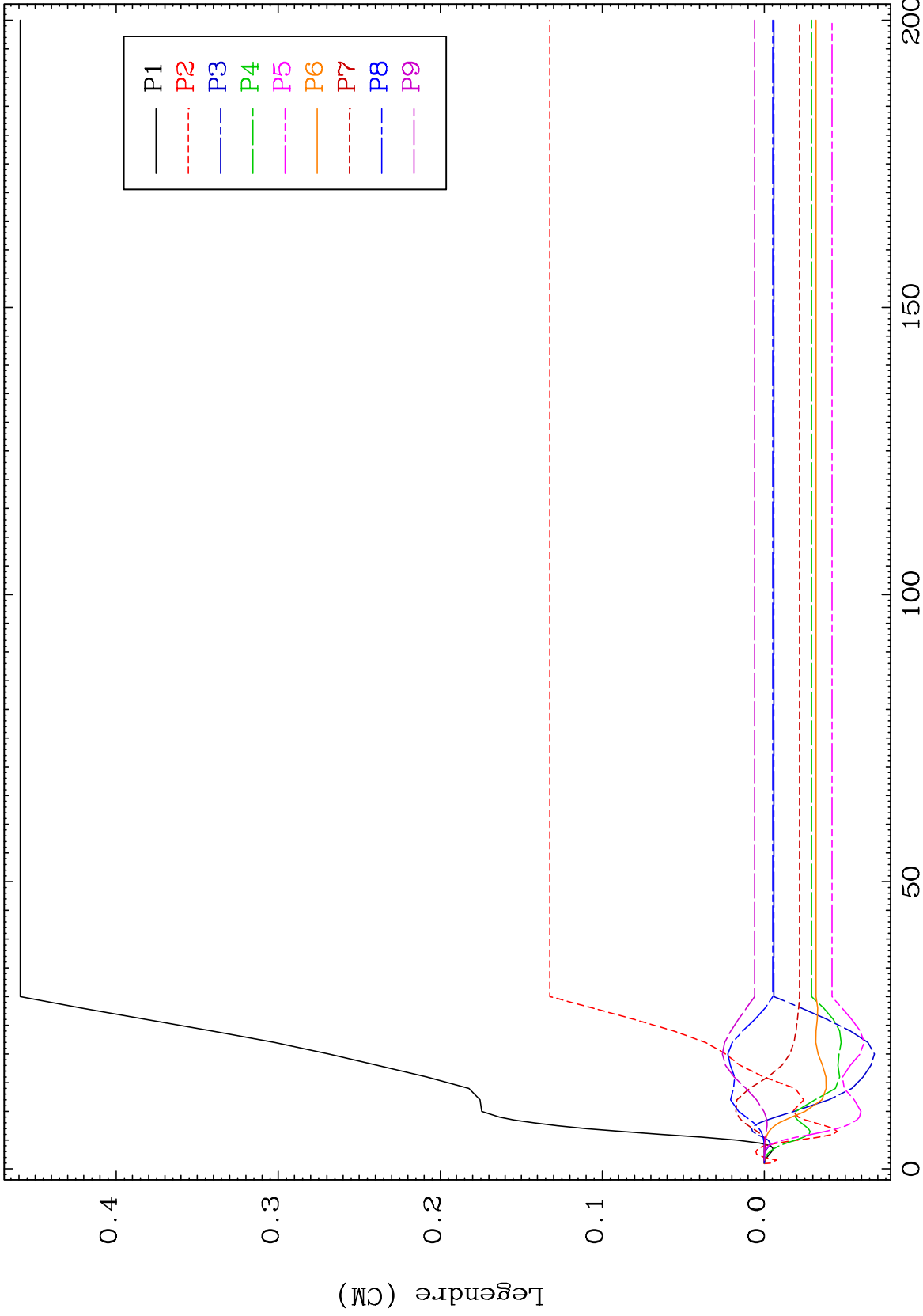
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79

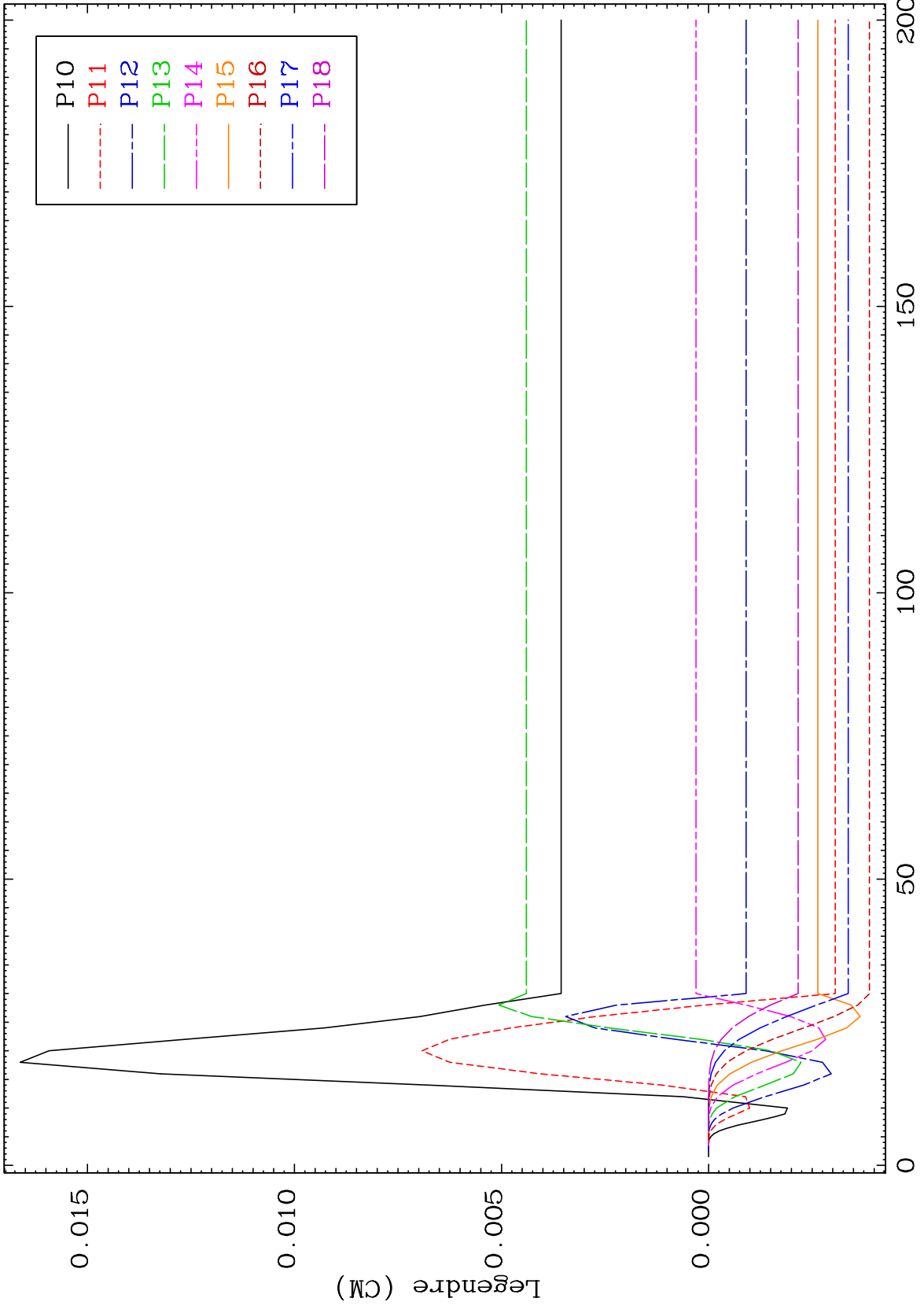


68

Incident Energy (MeV)

34-Se-79

MAT 3440 MT= 66 (n,n') Level Legendre Coefficients 34-Se-79

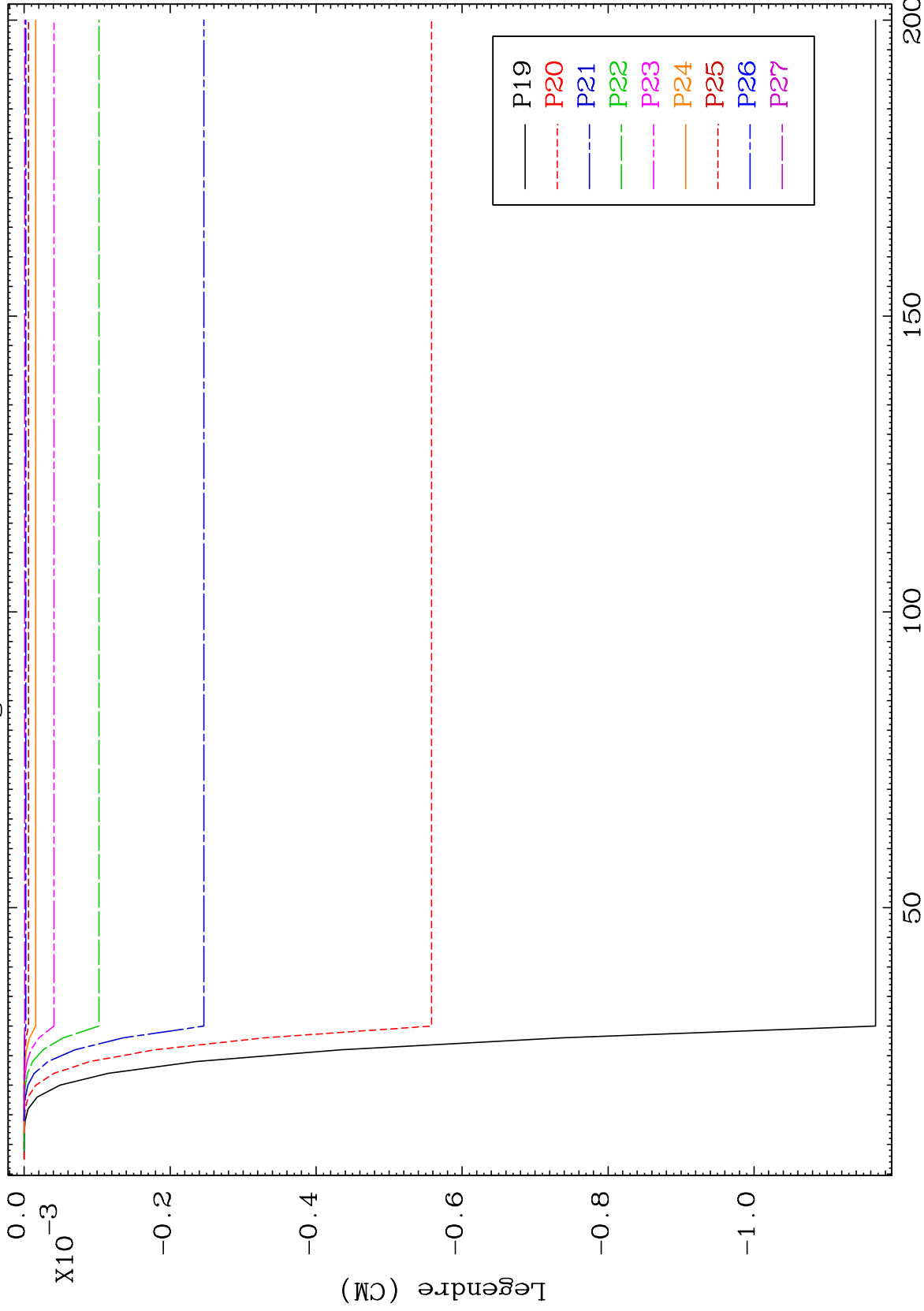


69 34-Se-79

MAT 3440

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

34-Se-79



70

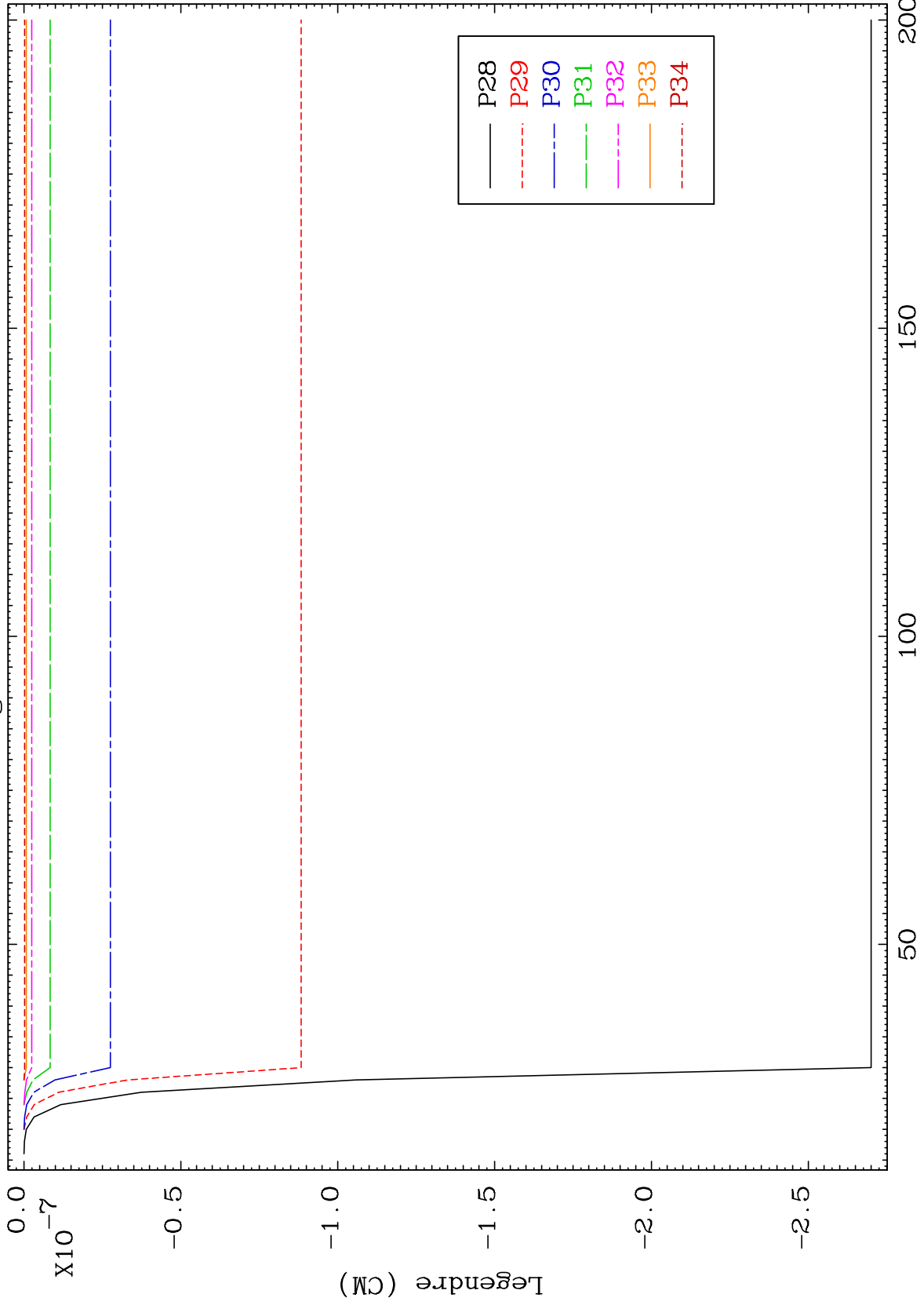
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



71

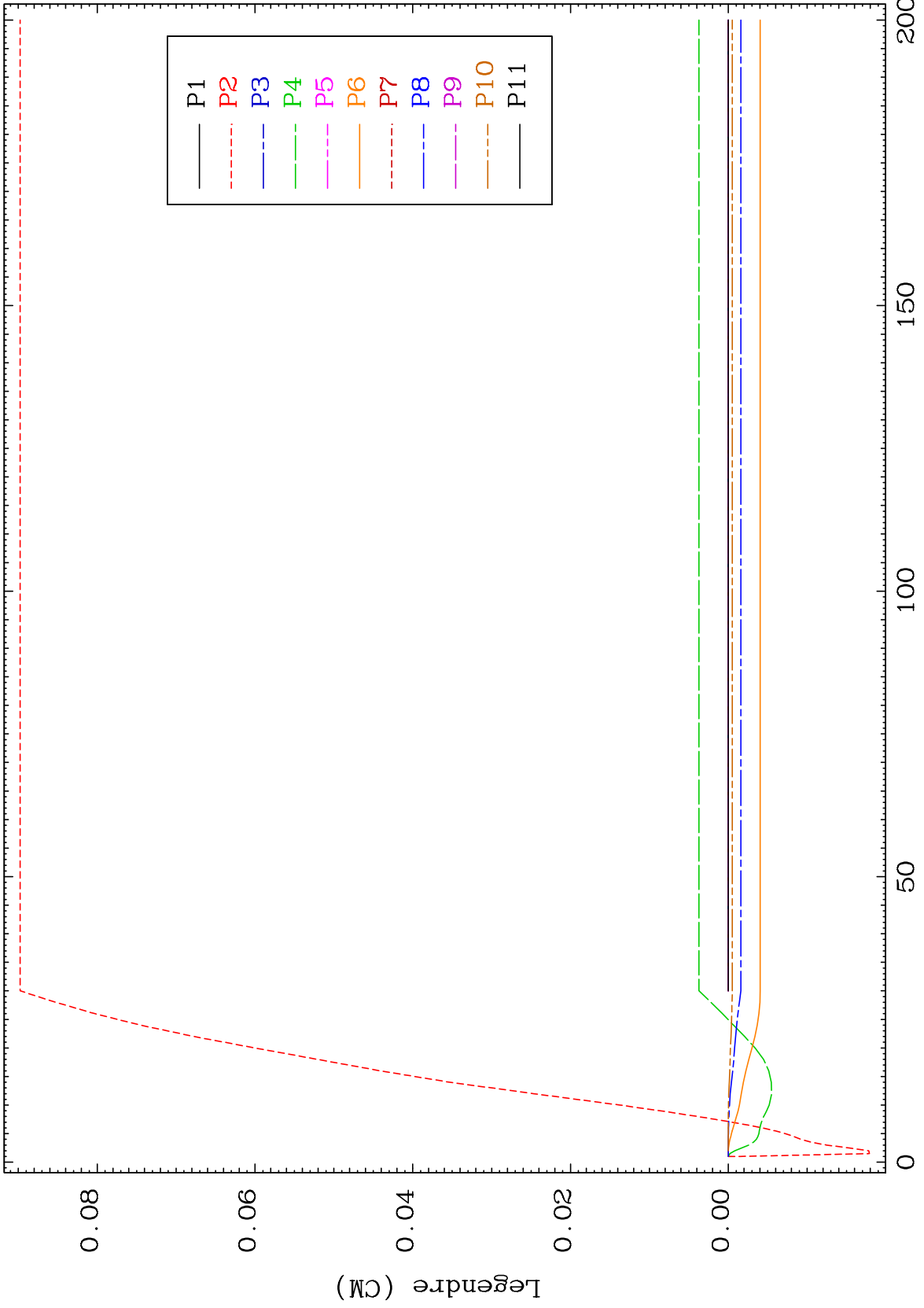
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



72

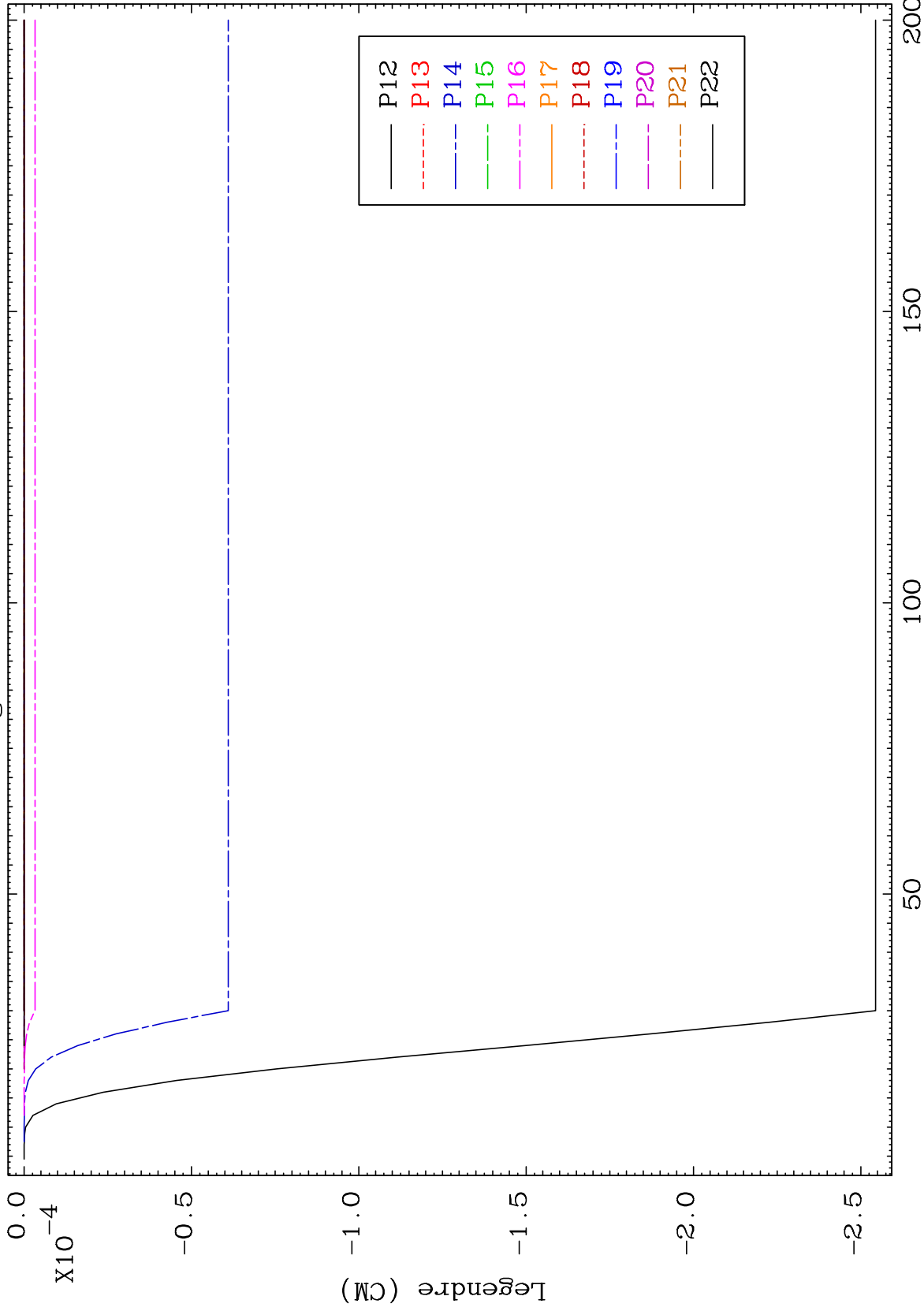
Incident Energy (MeV)

34-Se-79

MAT 3440

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

<sup>34</sup>Se-79

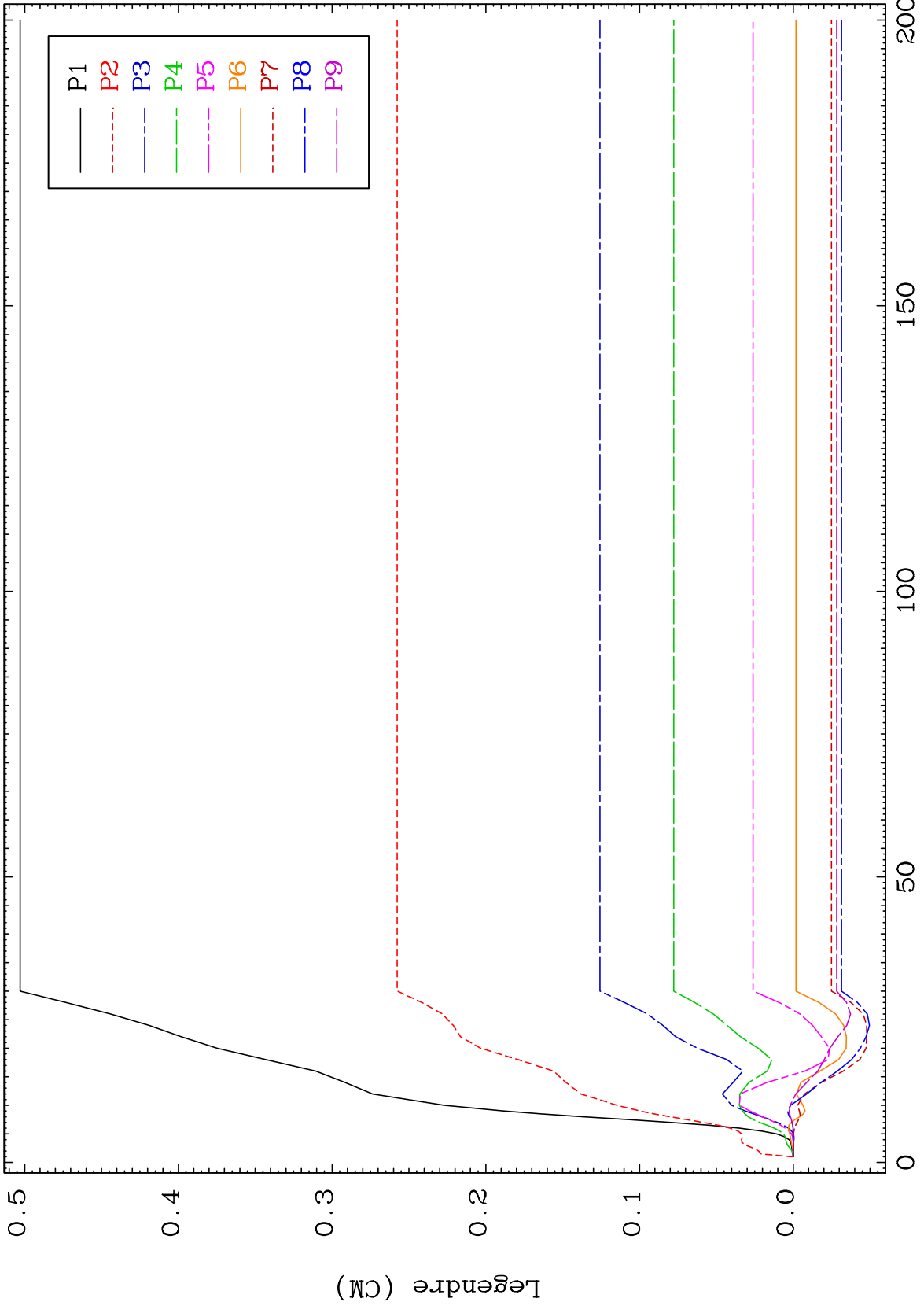


73

Incident Energy (MeV)

<sup>34</sup>Se-79

MAT 3440 MT= 68 (n,n') Level Legendre Coefficients 34-Se-79

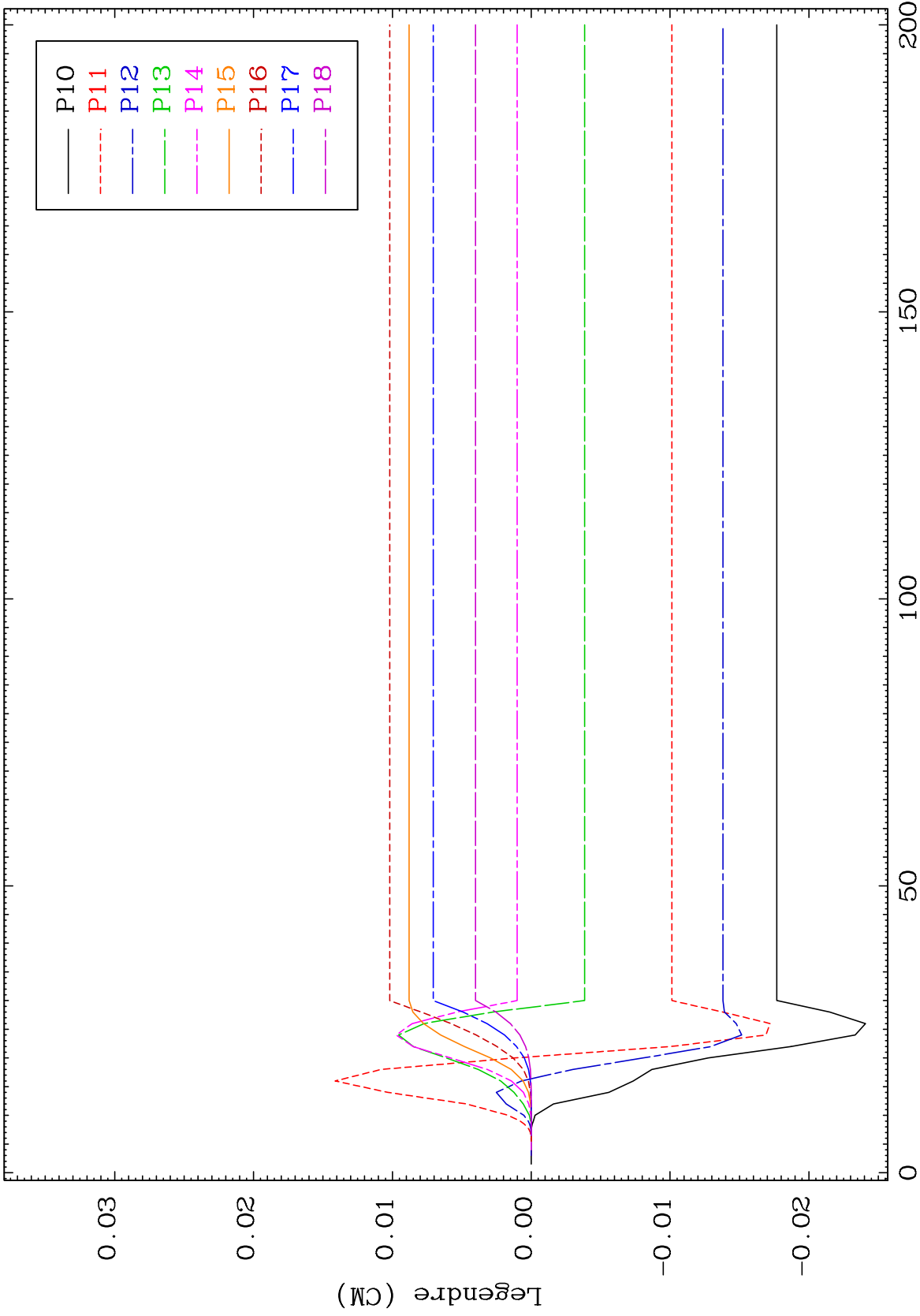


74 34-Se-79

MAT 3440

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

<sup>34</sup>Se-79



75

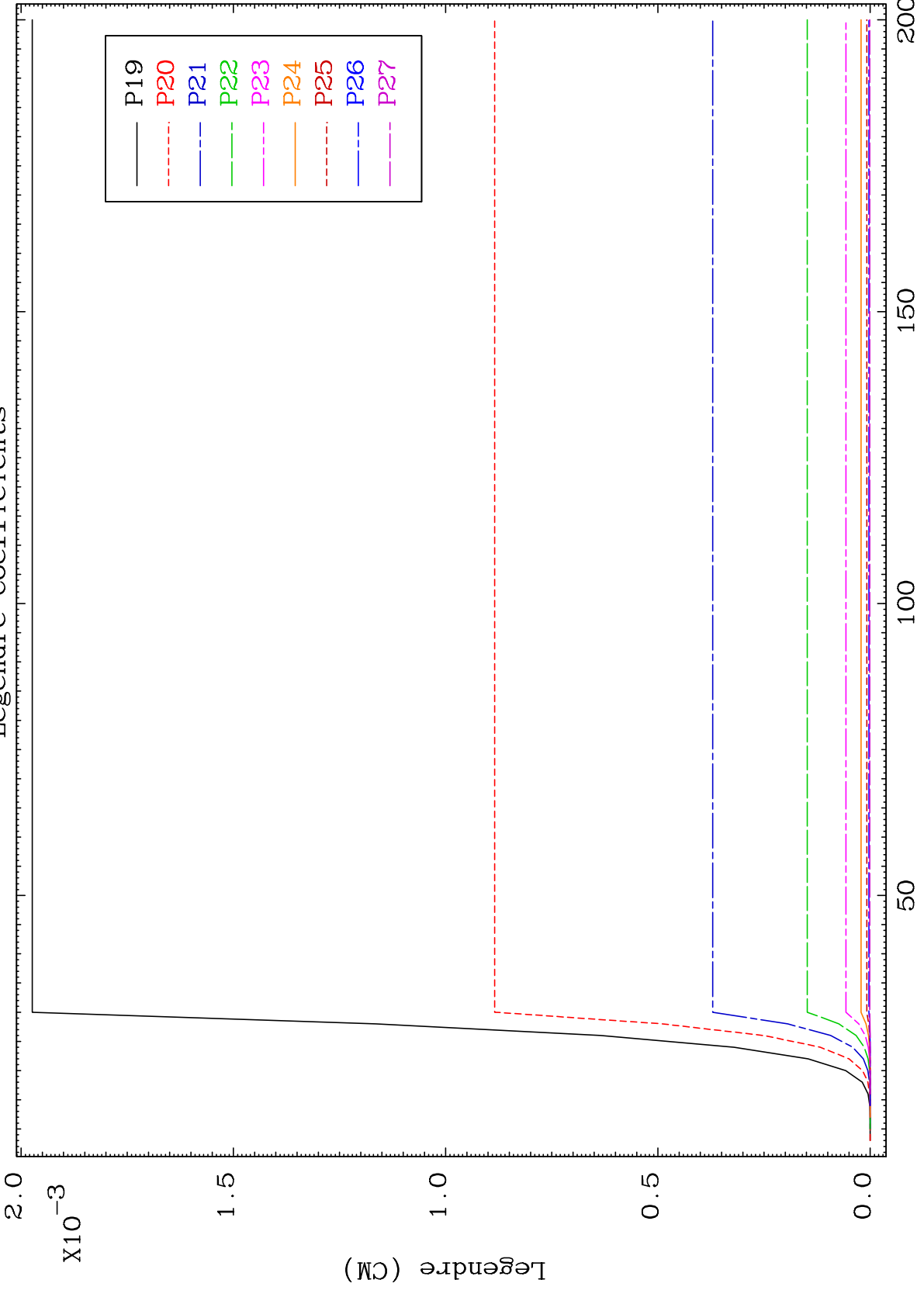
Incident Energy (MeV)

<sup>34</sup>Se-79

MAT 3440

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

34-Se-79



34-Se-79

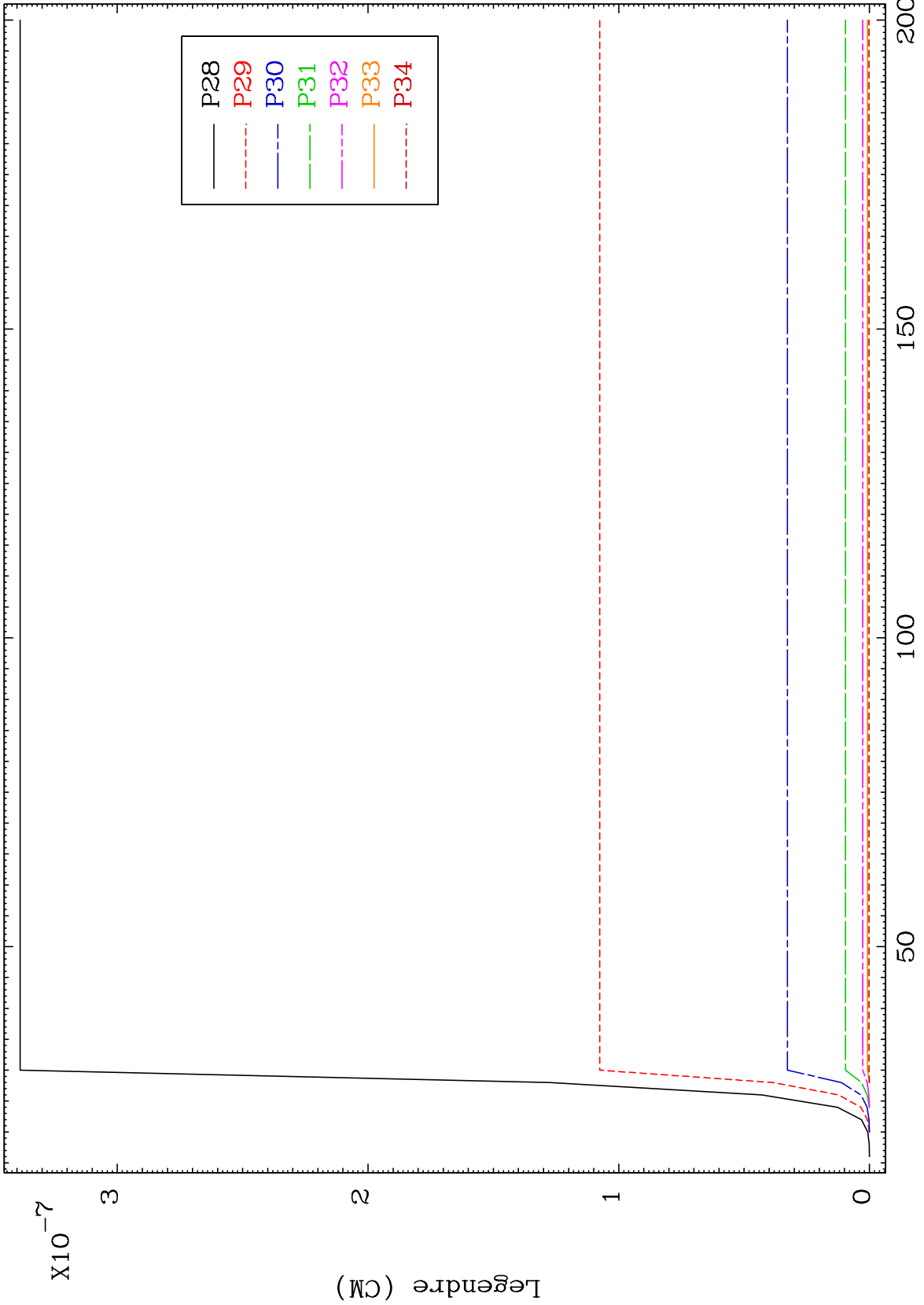
Incident Energy (MeV)

76

MAT 3440

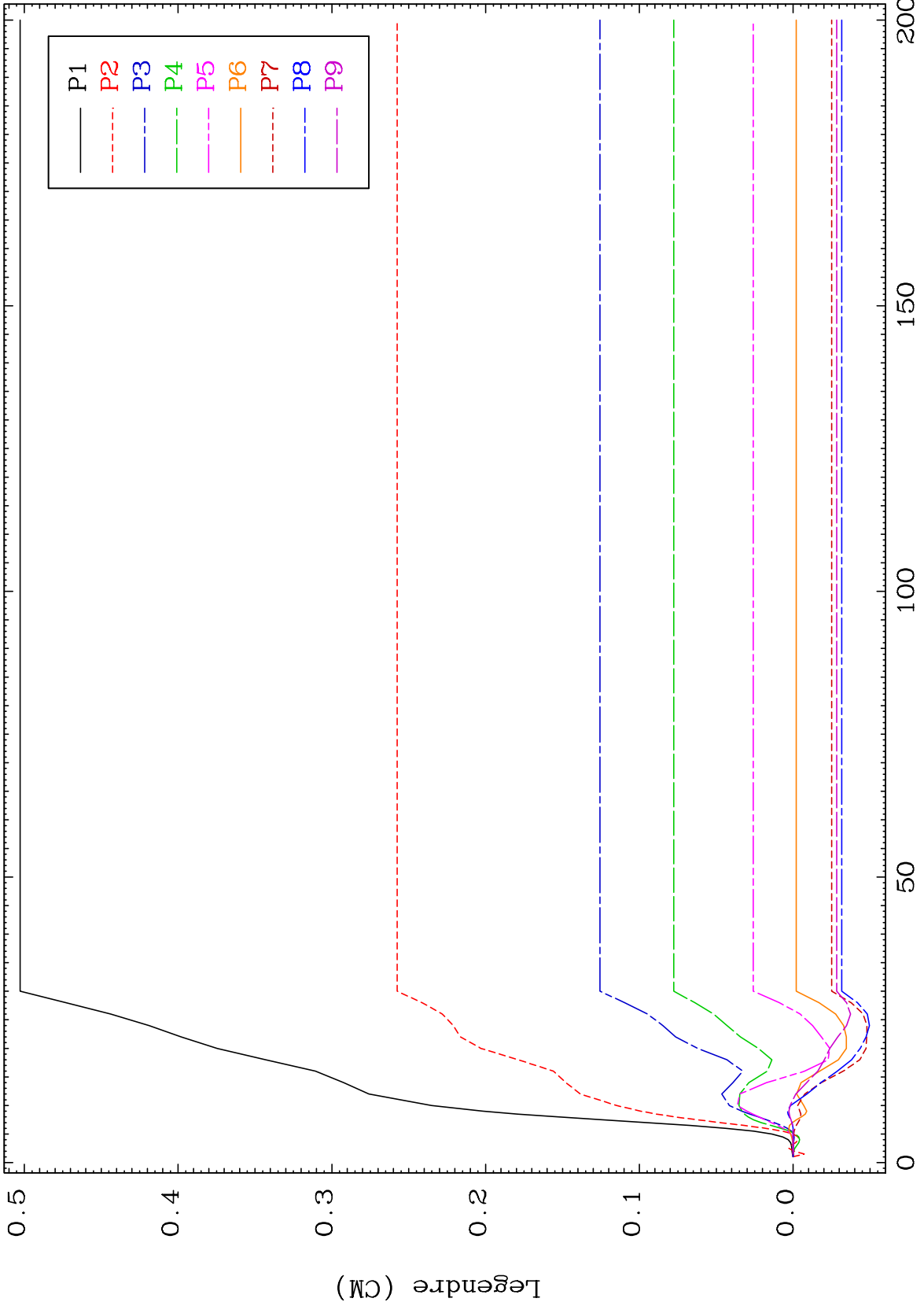
MT= 68 (n,n') Level  
Legendre Coefficients

34-Se-79



77

MAT 3440 MT= 69 (n,n') Level Legendre Coefficients 34-Se-79

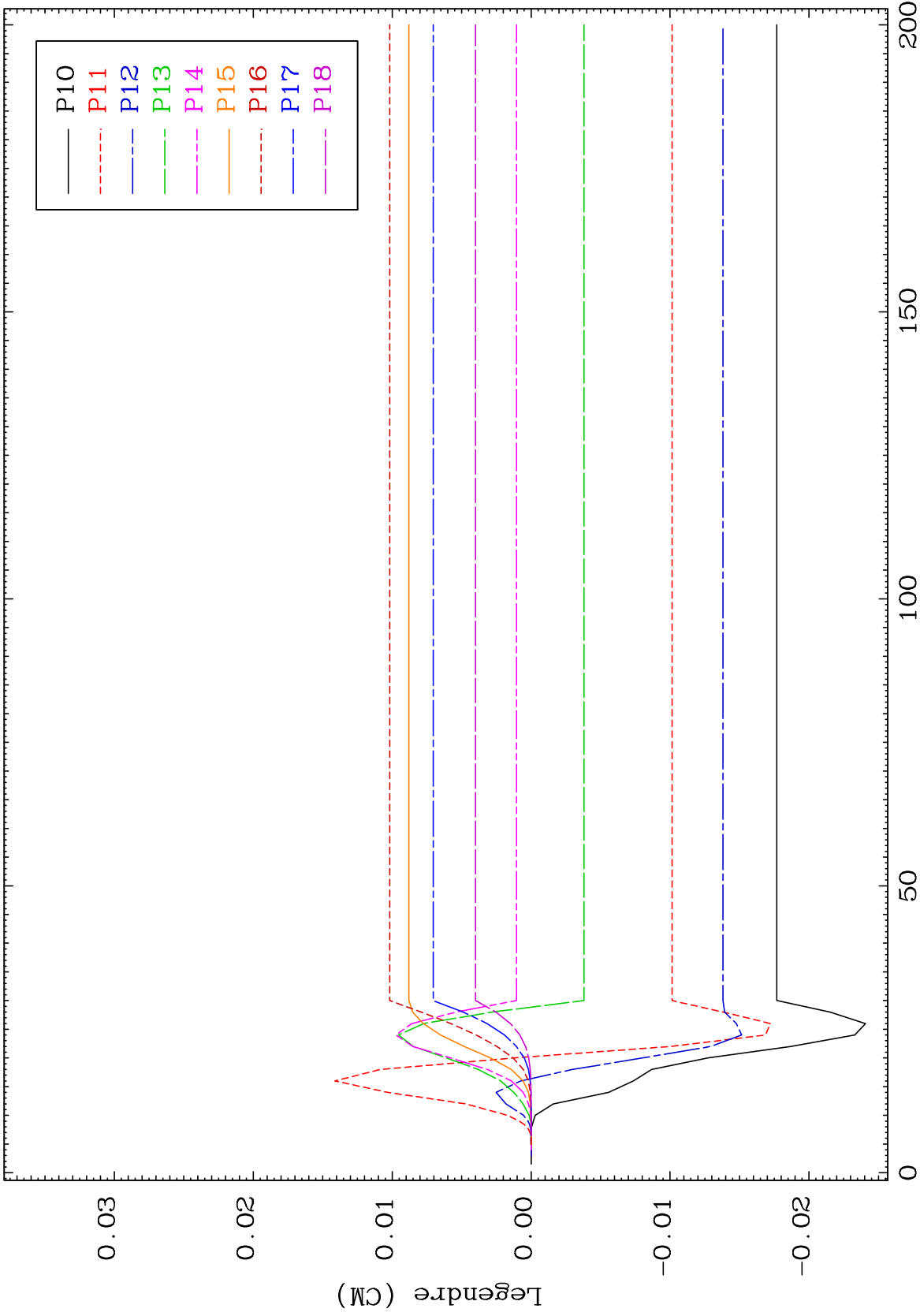


78 34-Se-79

MAT 3440

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

<sup>34</sup>Se-79

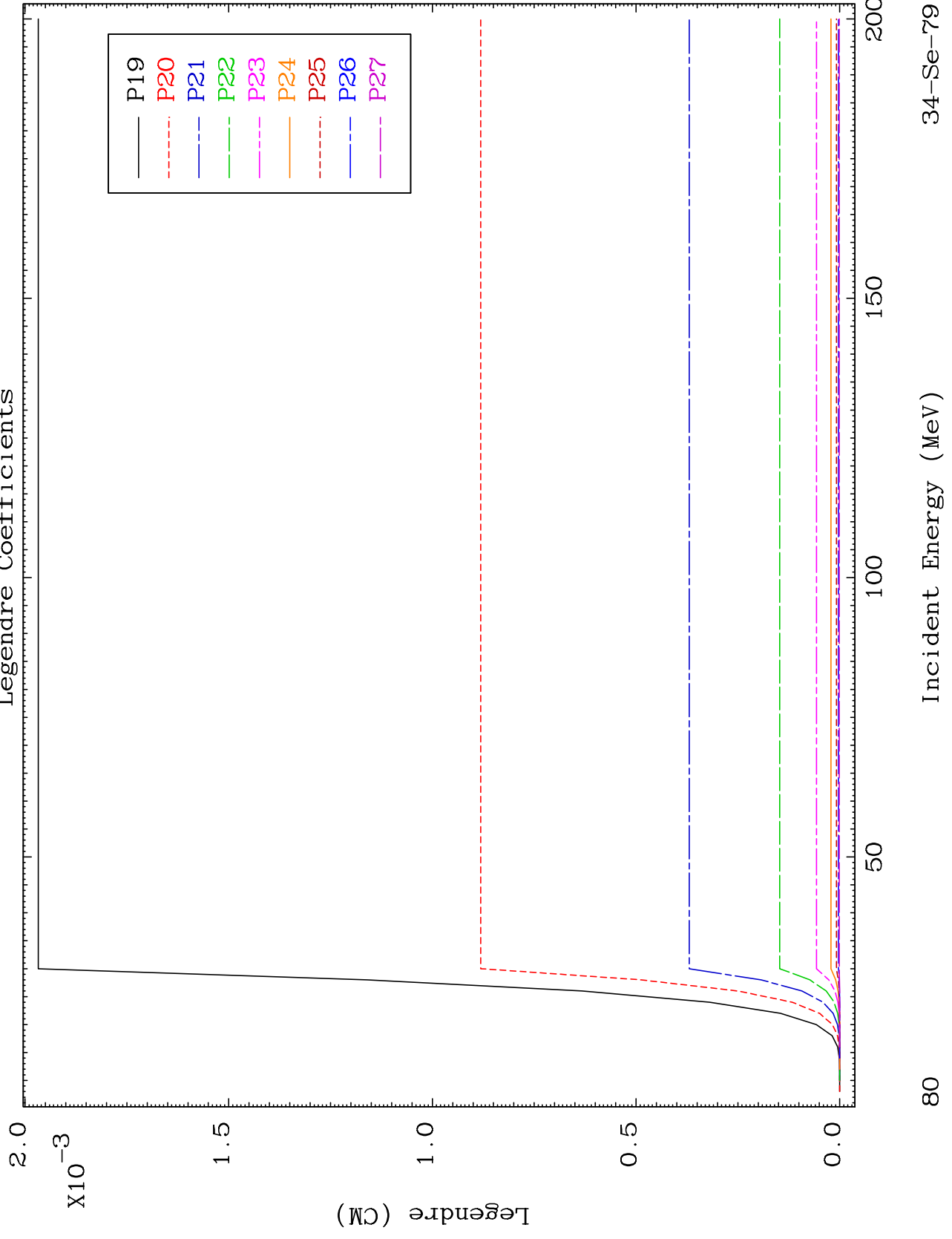


79

Incident Energy (MeV)

<sup>34</sup>Se-79

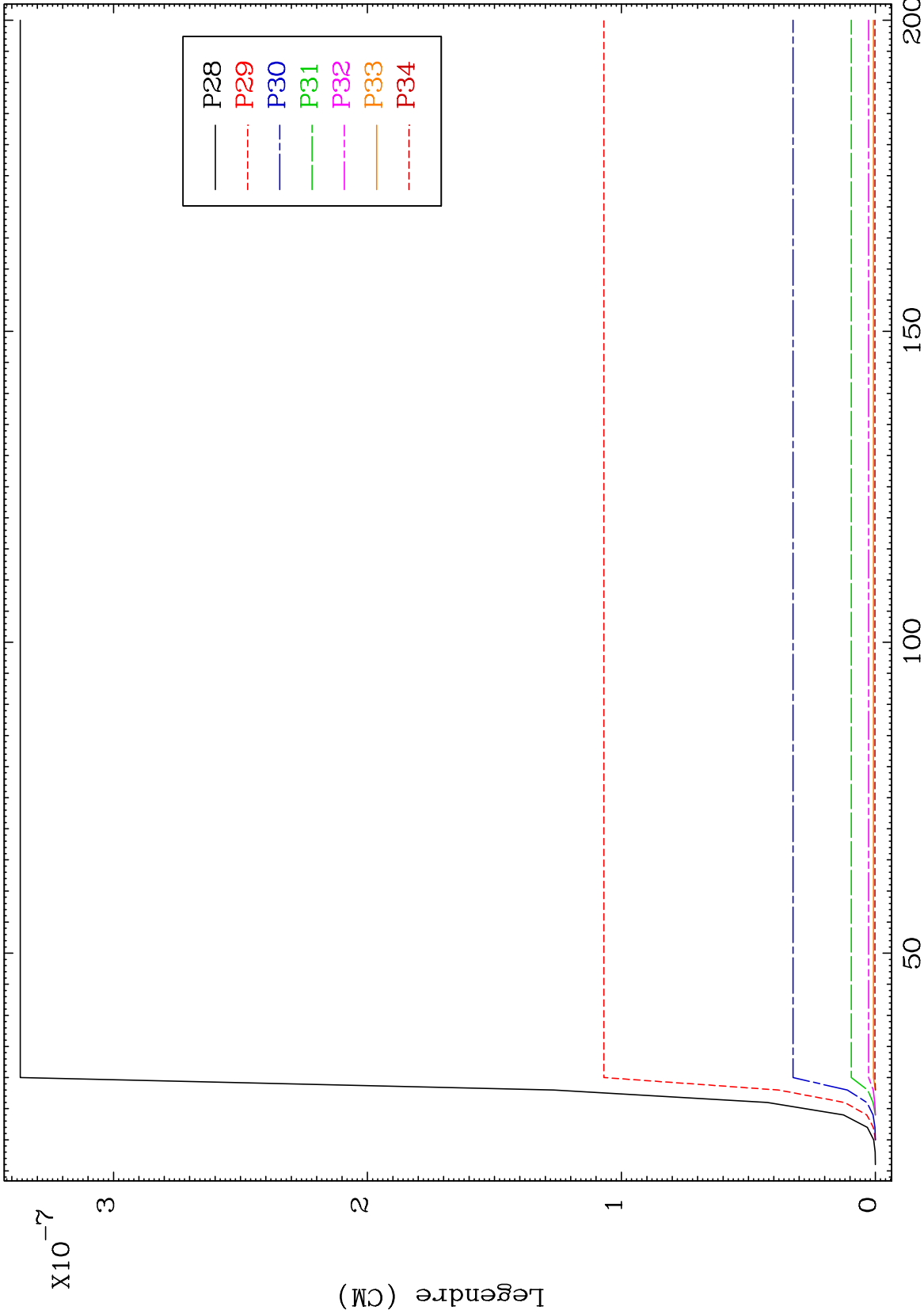
MAT 3440 MT= 69 (n,n') Level Legendre Coefficients 34-Se-79



MAT 3440

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

34-Se-79



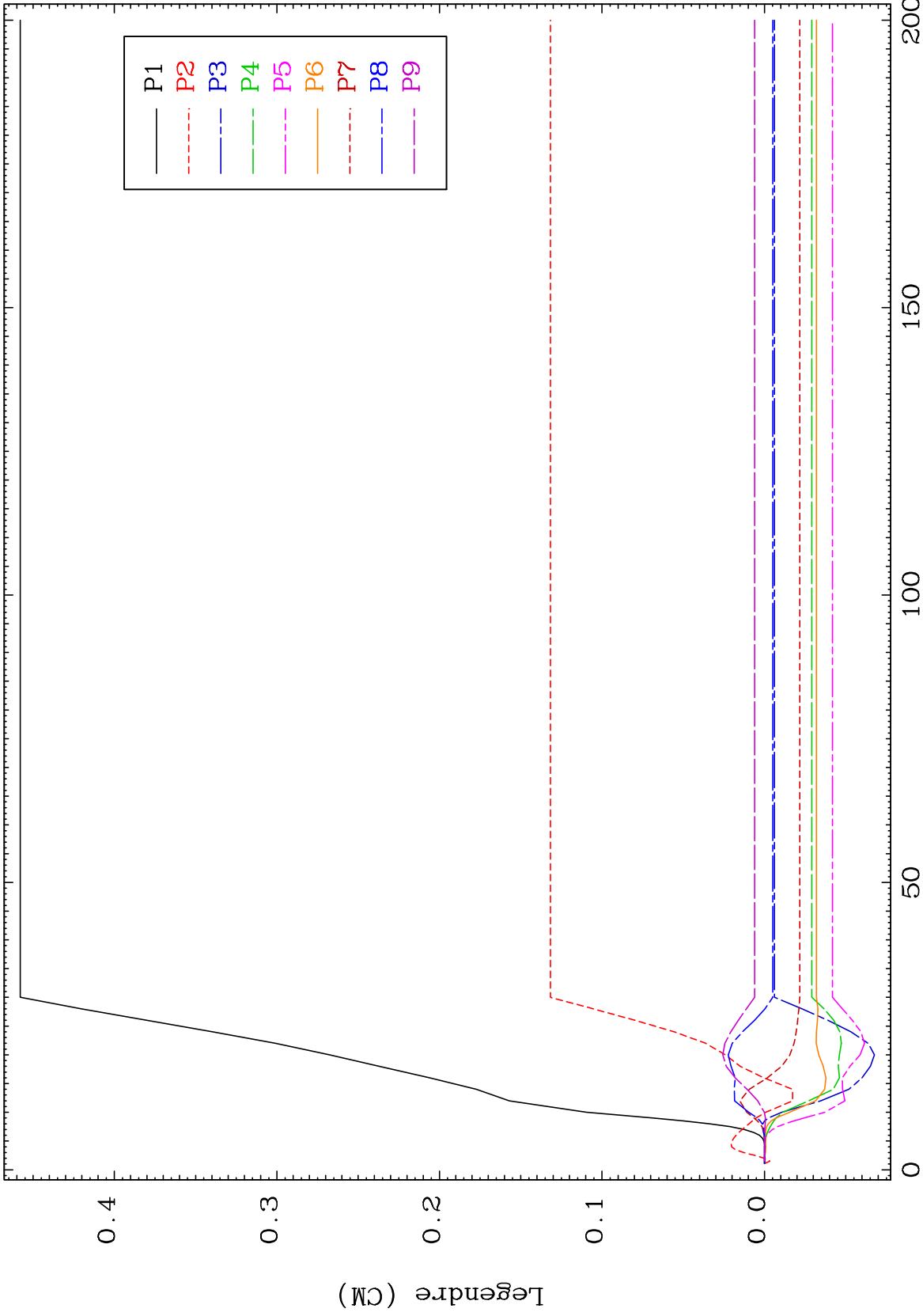
81

34-Se-79

MAT 3440

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

34-Se-79

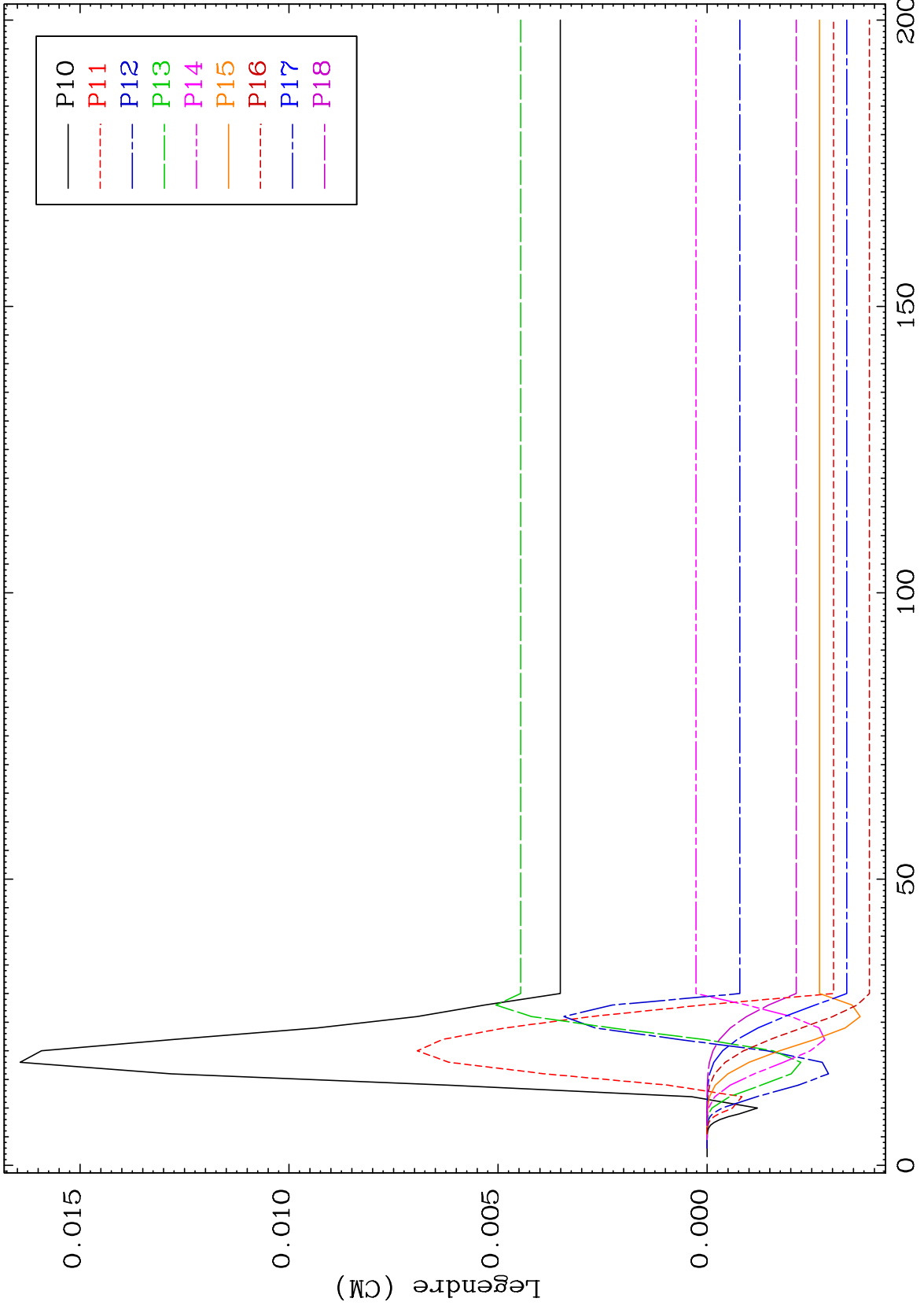


82

Incident Energy (MeV)

34-Se-79

MAT 3440 MT= 70 (n,n') Level Legendre Coefficients 34-Se-79

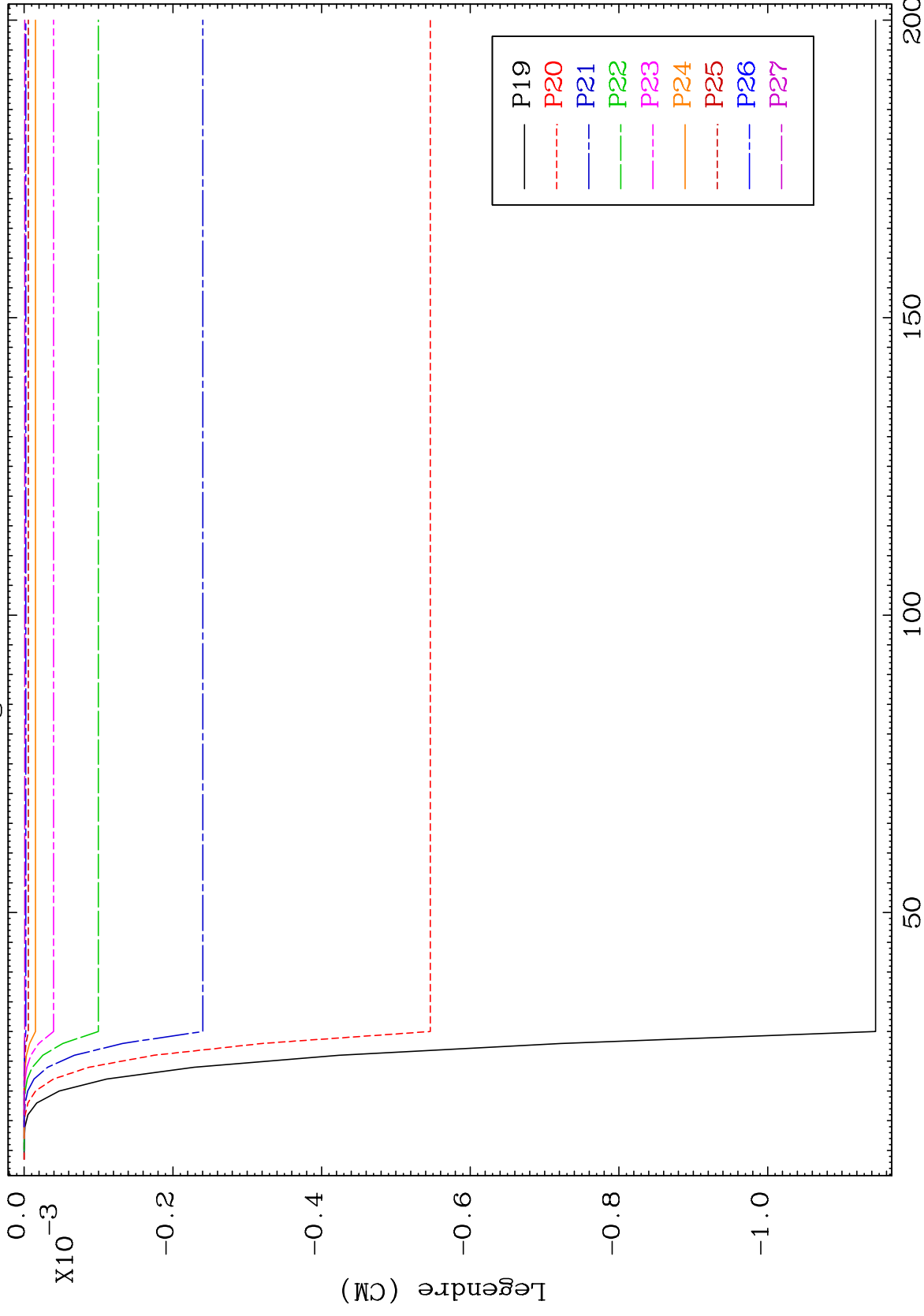


83 34-Se-79

MAT 3440

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

34-Se-79



84

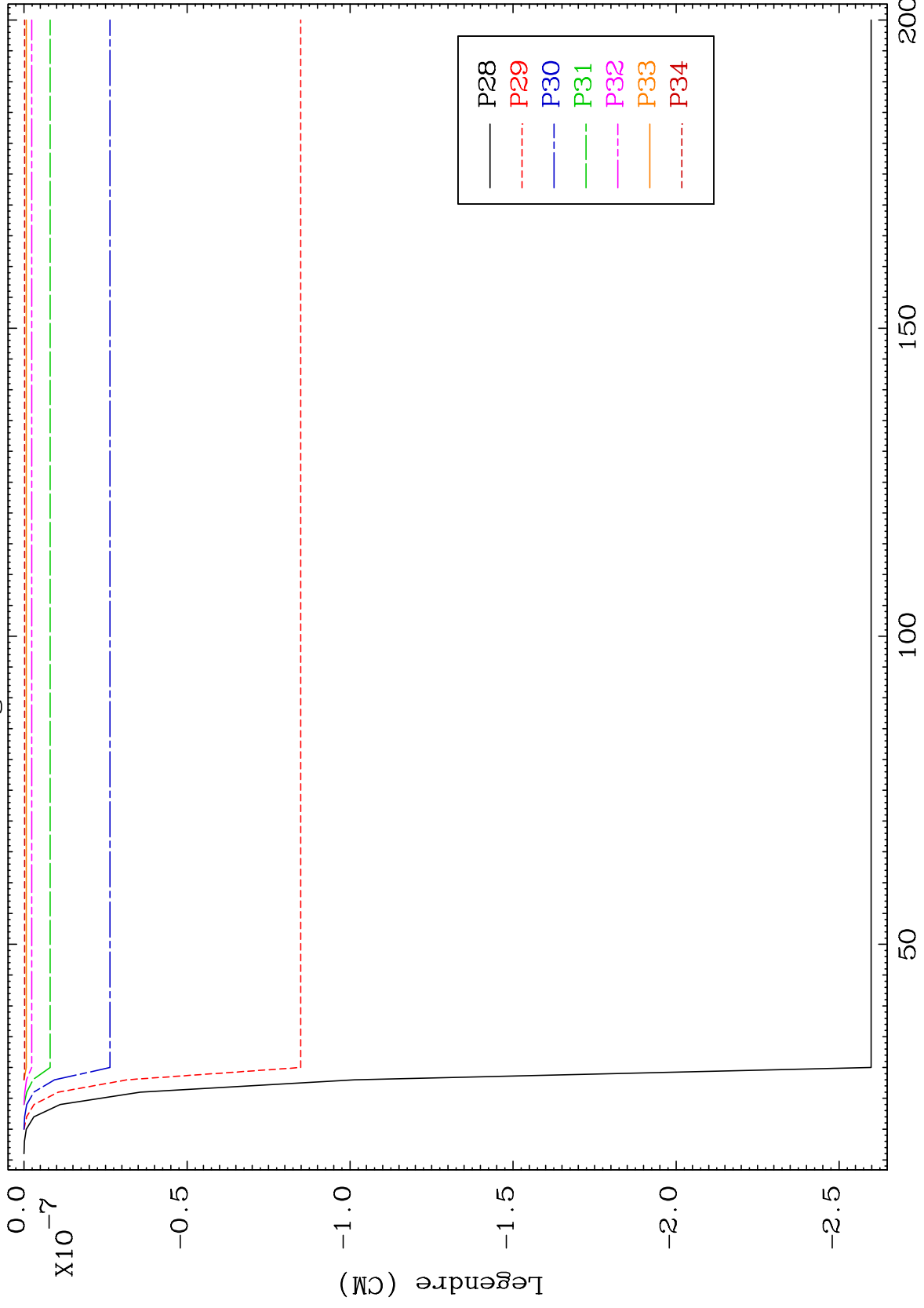
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



85

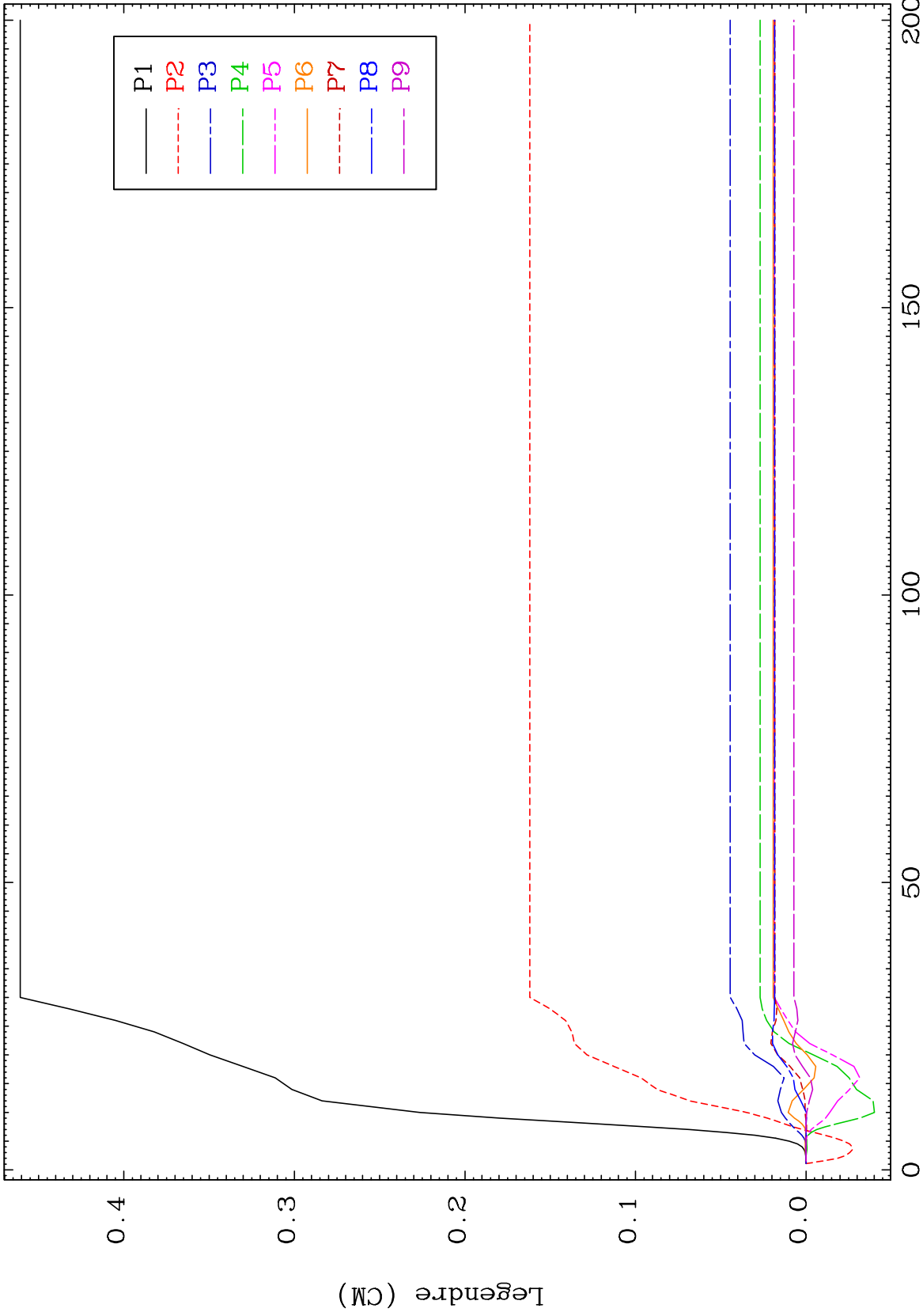
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



86

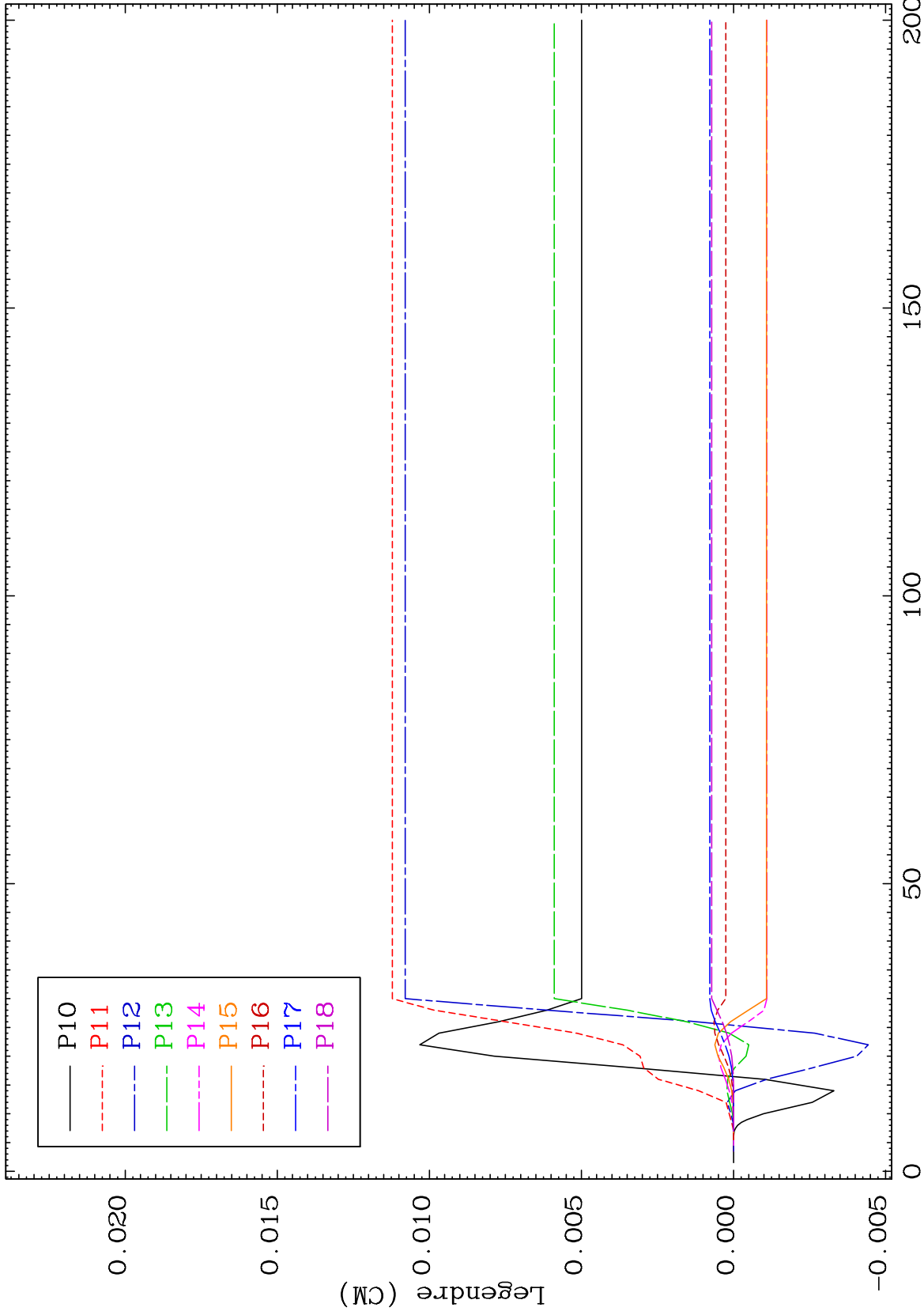
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



87

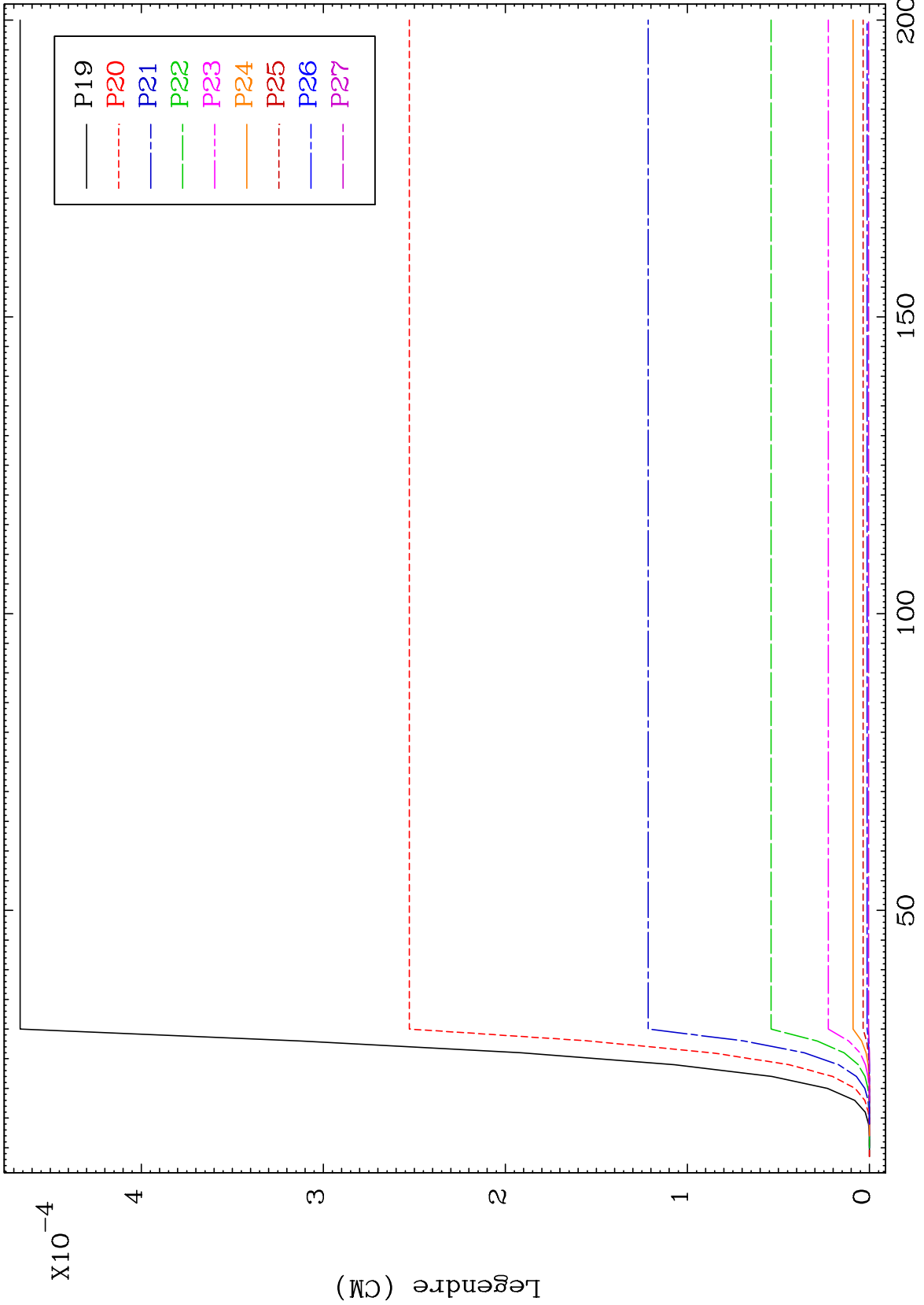
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



88

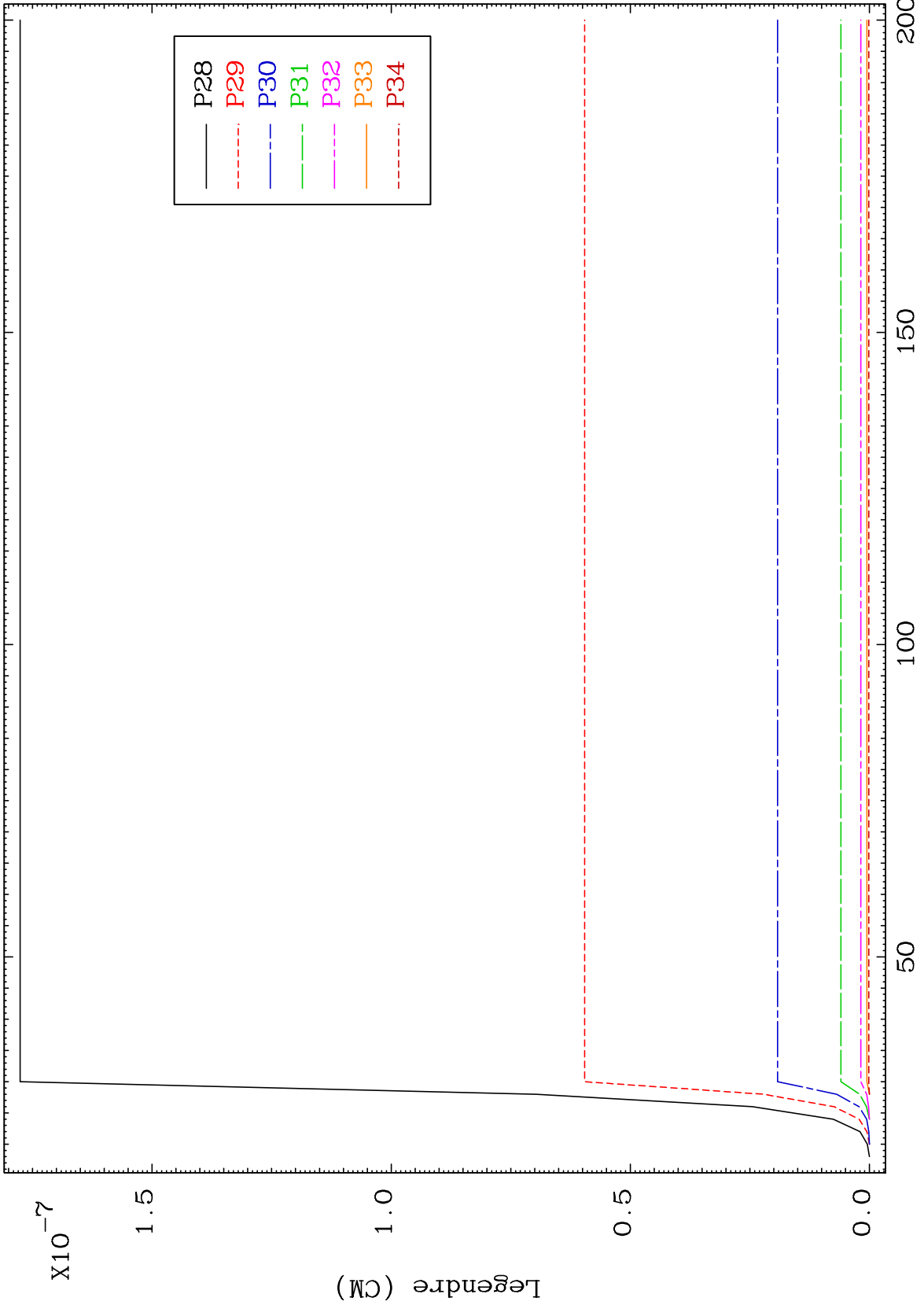
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



89

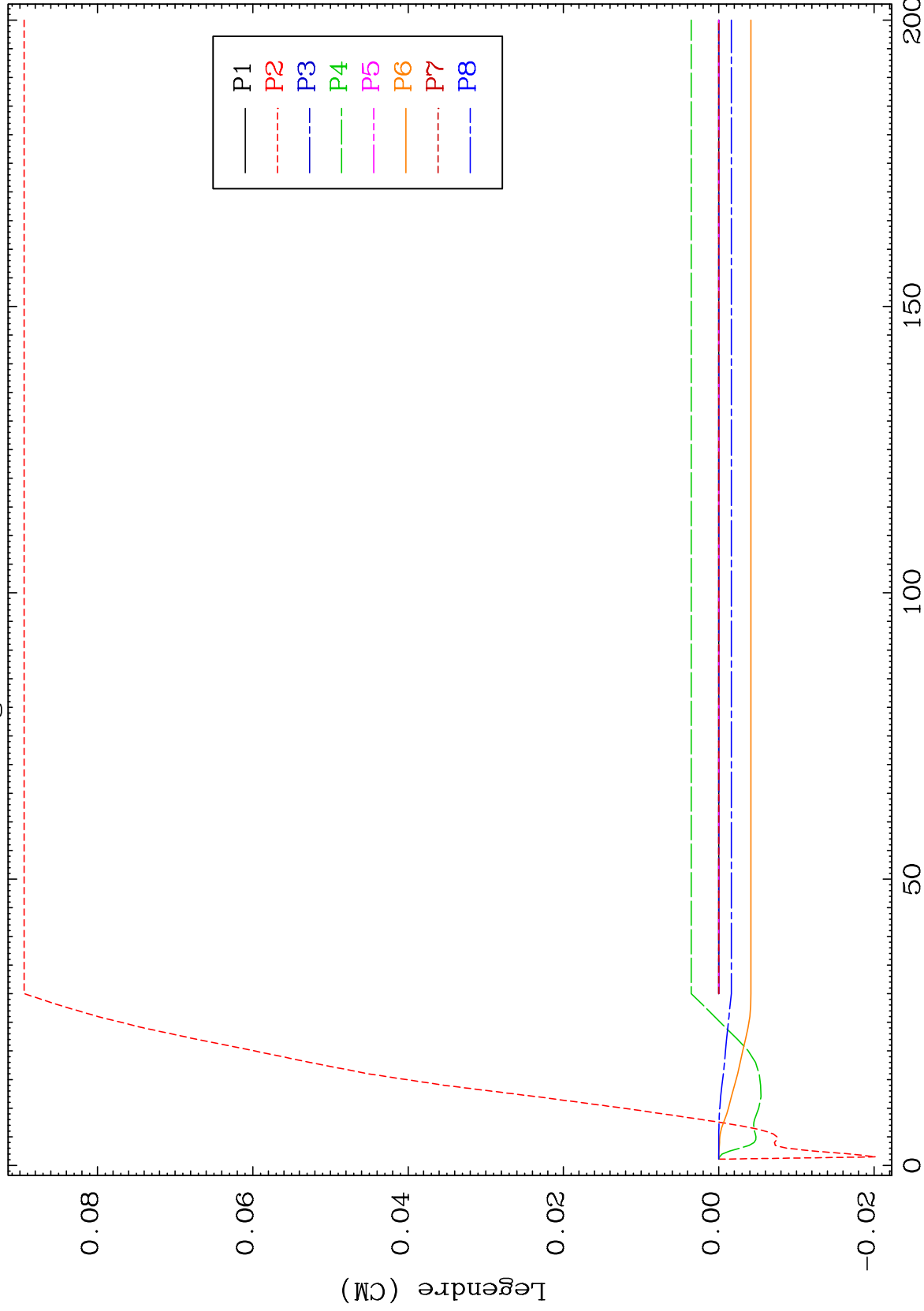
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



34-Se-79

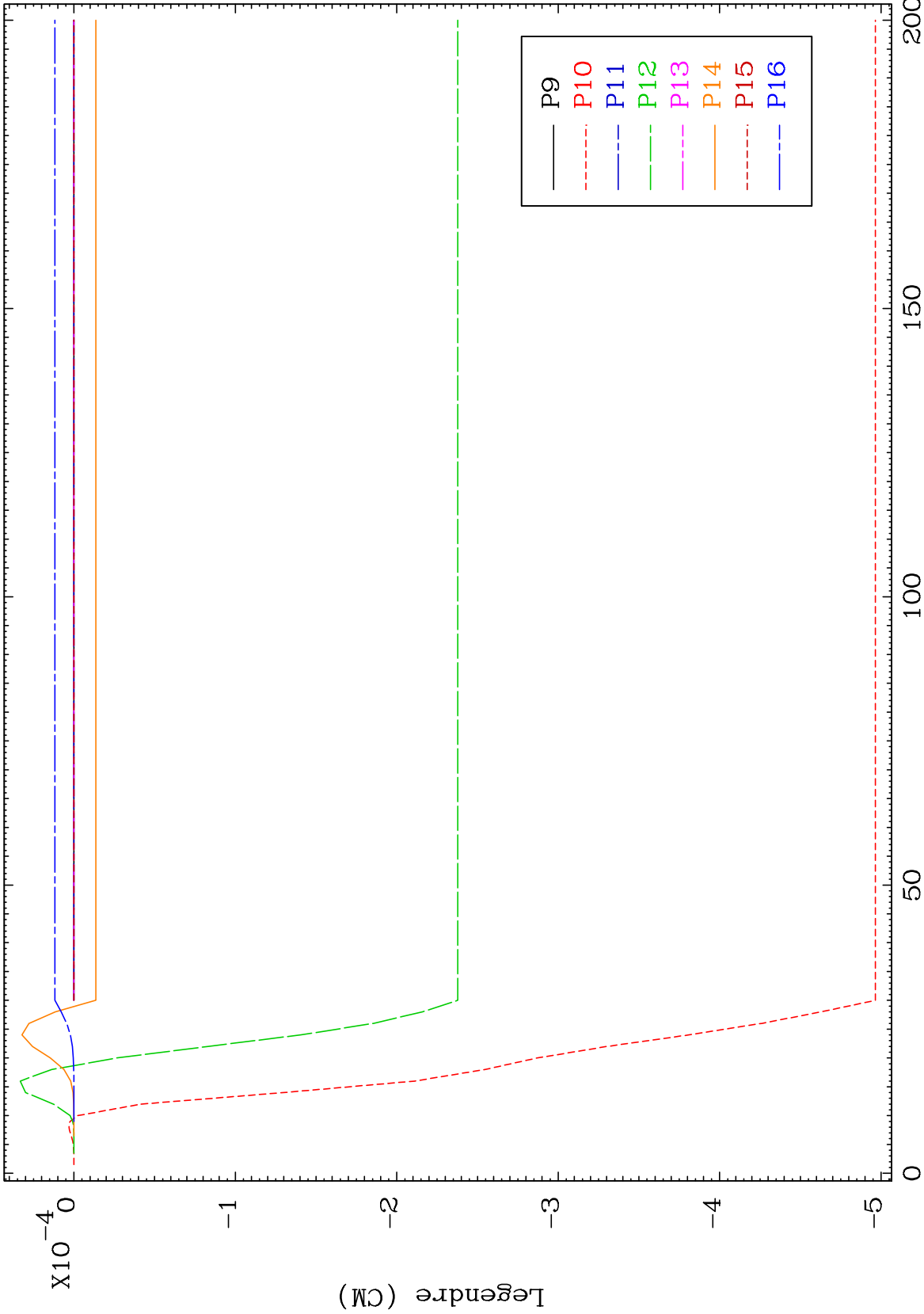
Incident Energy (MeV)

90

MAT 3440

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

34-Se-79

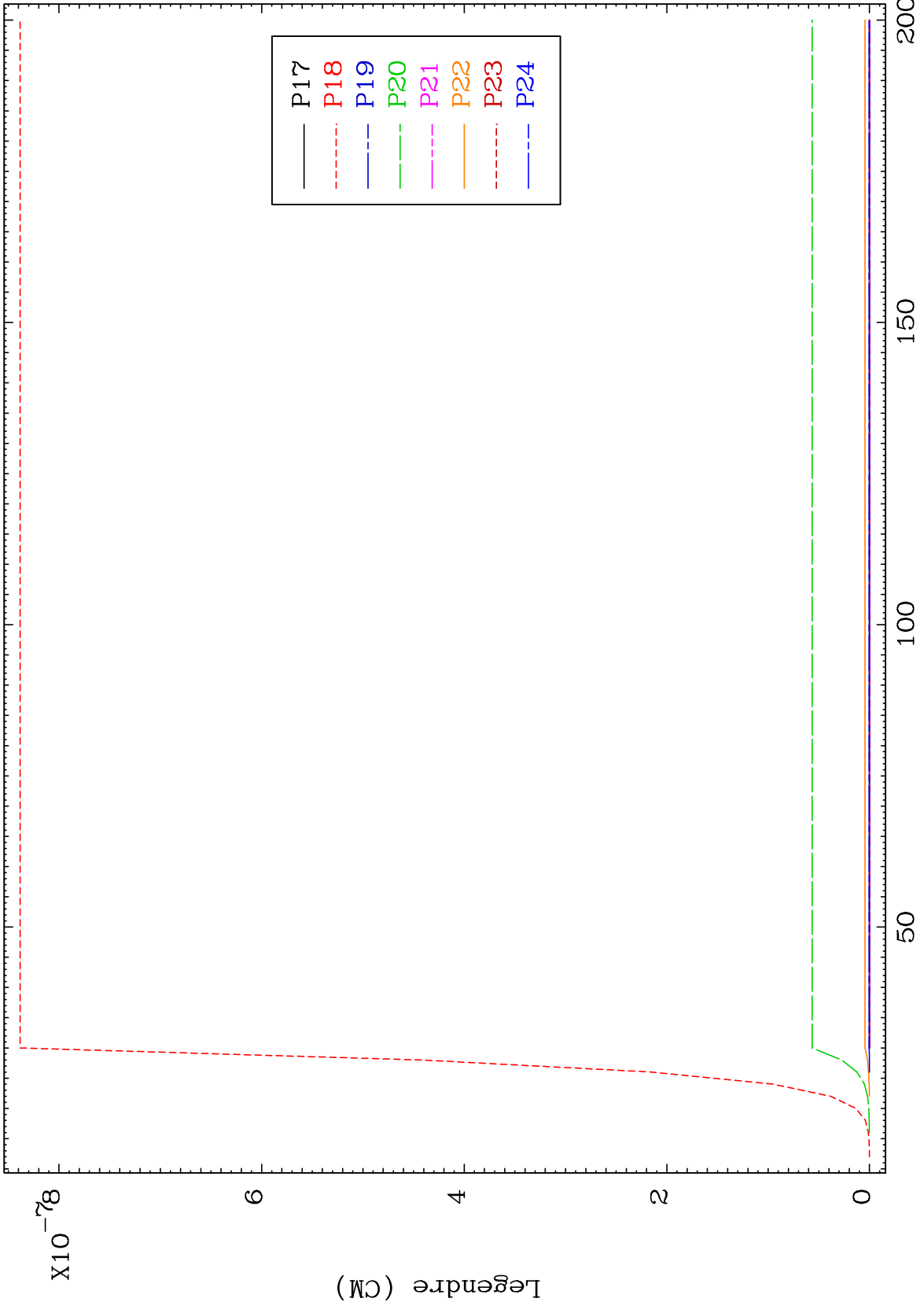


91

Incident Energy (MeV)

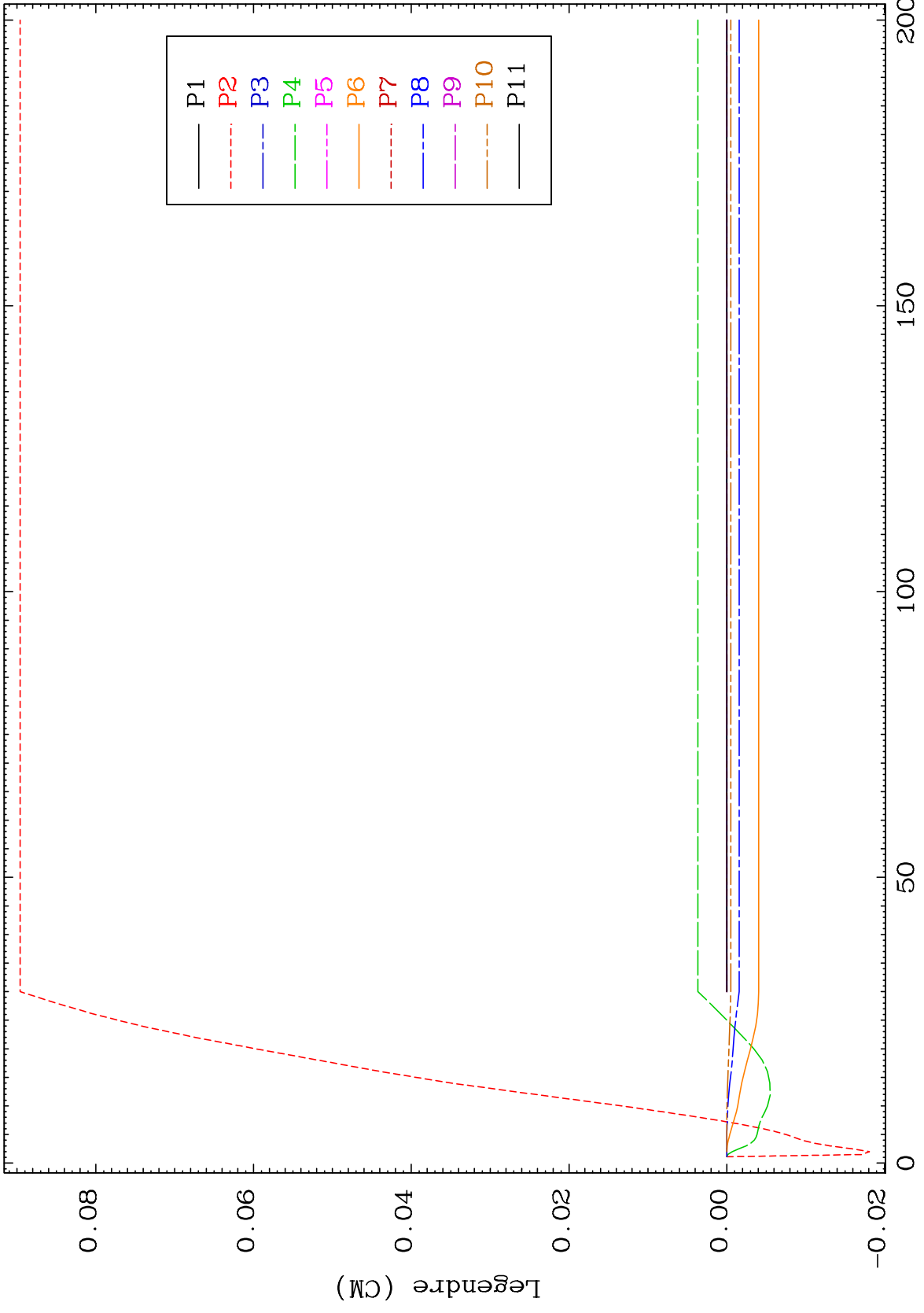
34-Se-79

MAT 3440 MT= 72 (n,n') Level Legendre Coefficients 34-Se-79



92 34-Se-79

MAT 3440 MT= 73 (n,n') Level Legendre Coefficients 34-Se-79

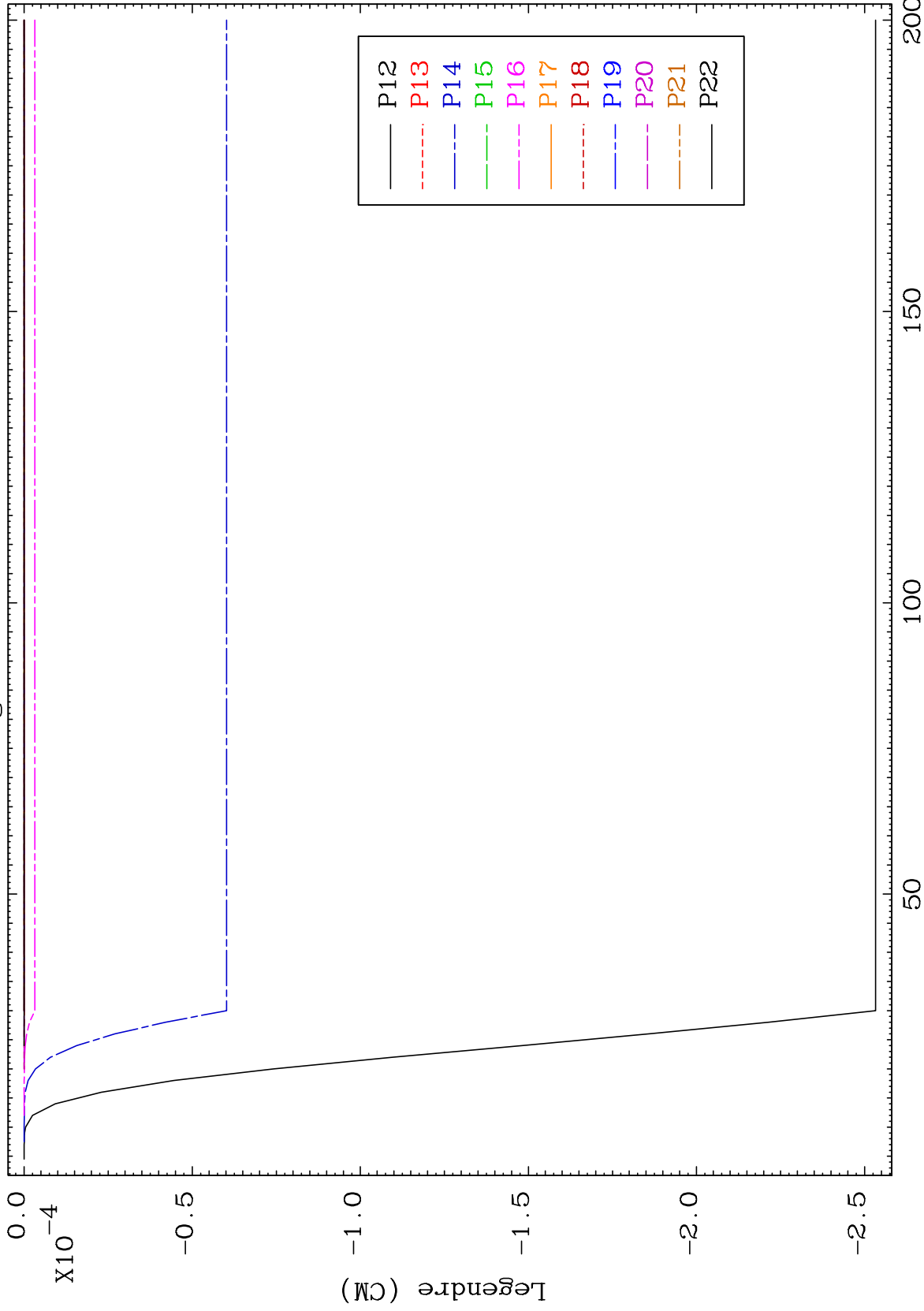


93 34-Se-79

MAT 3440

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

<sup>34</sup>Se-79



94

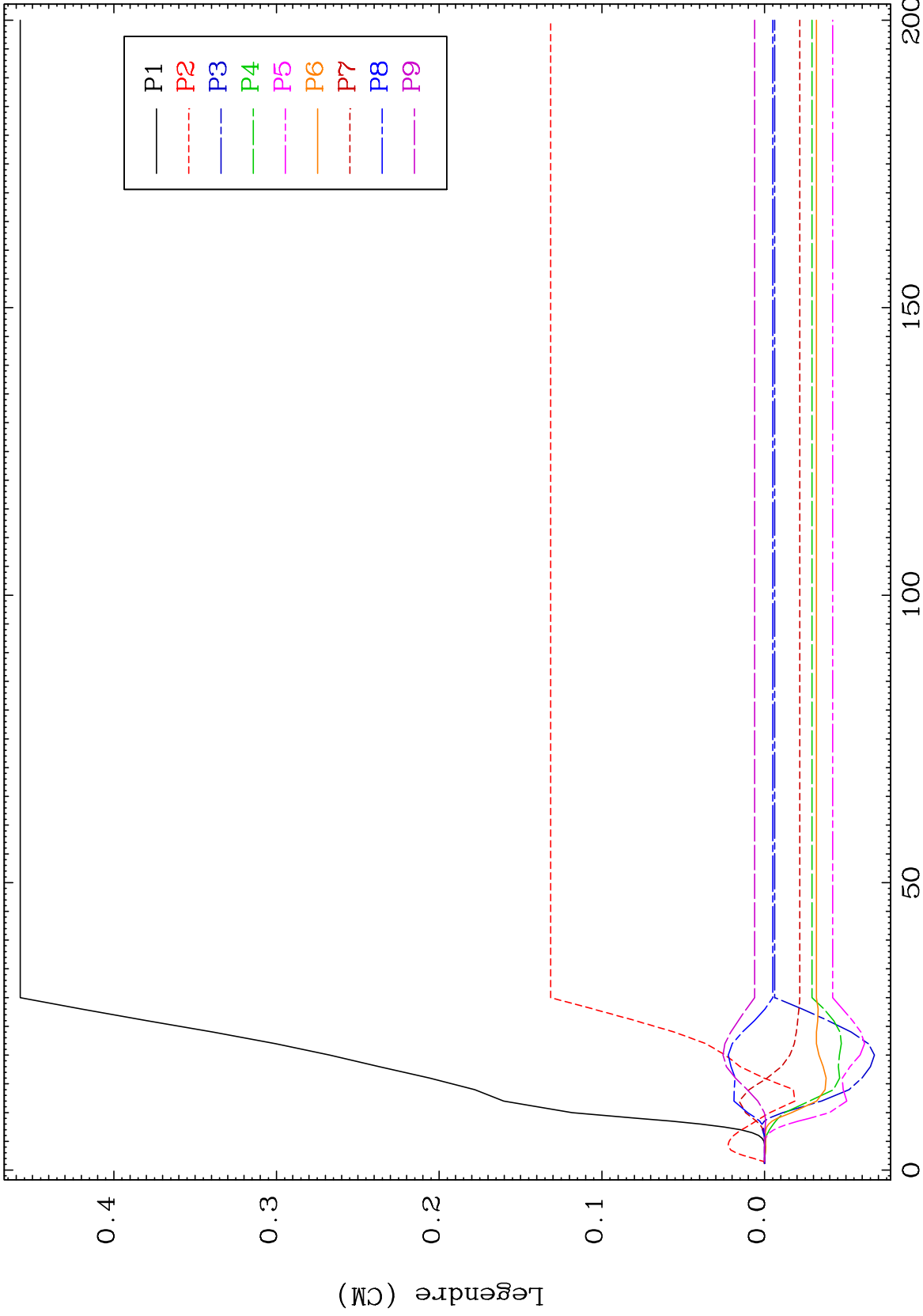
Incident Energy (MeV)

<sup>34</sup>Se-79

MAT 3440

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

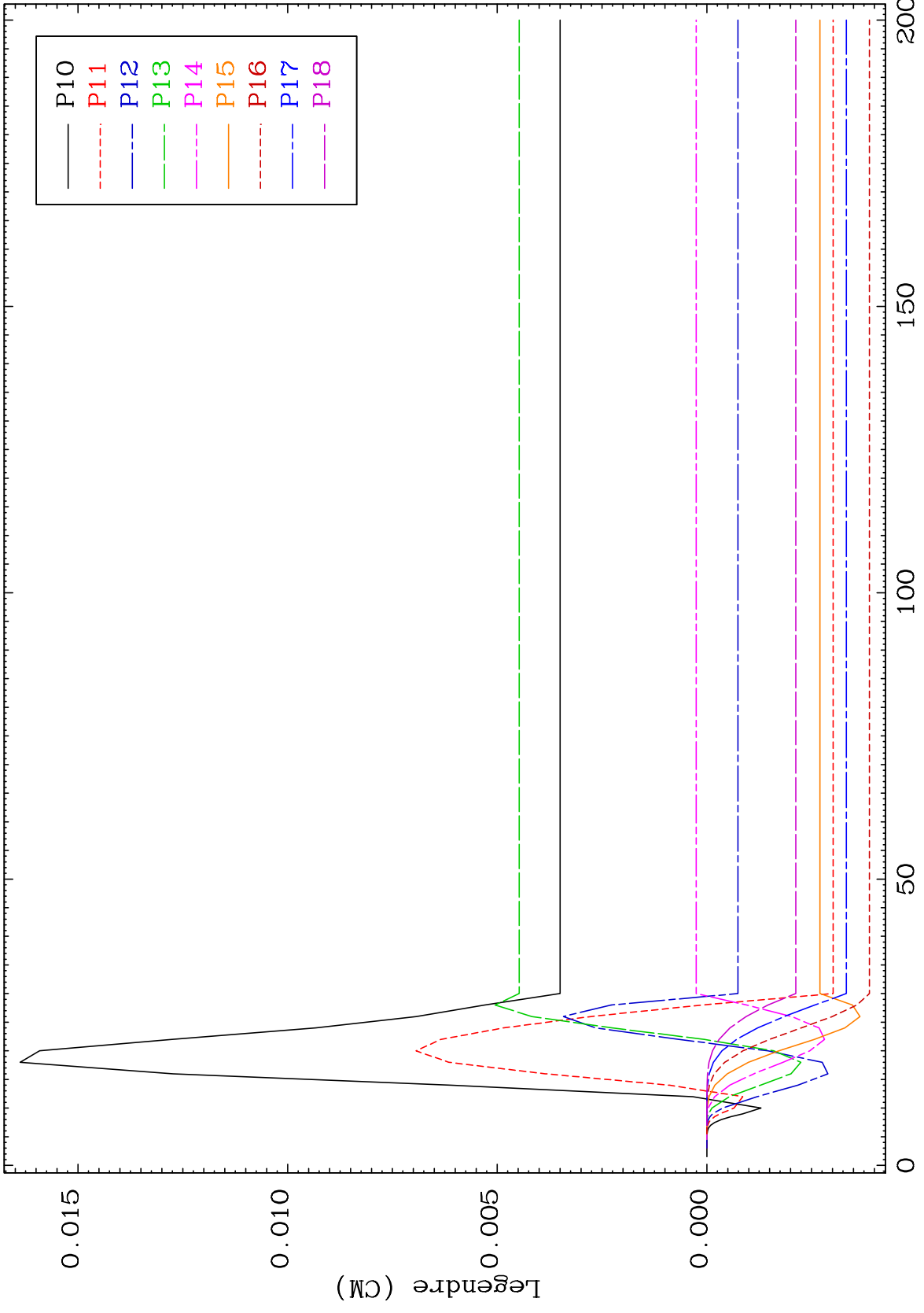
34-Se-79



95

Incident Energy (MeV)

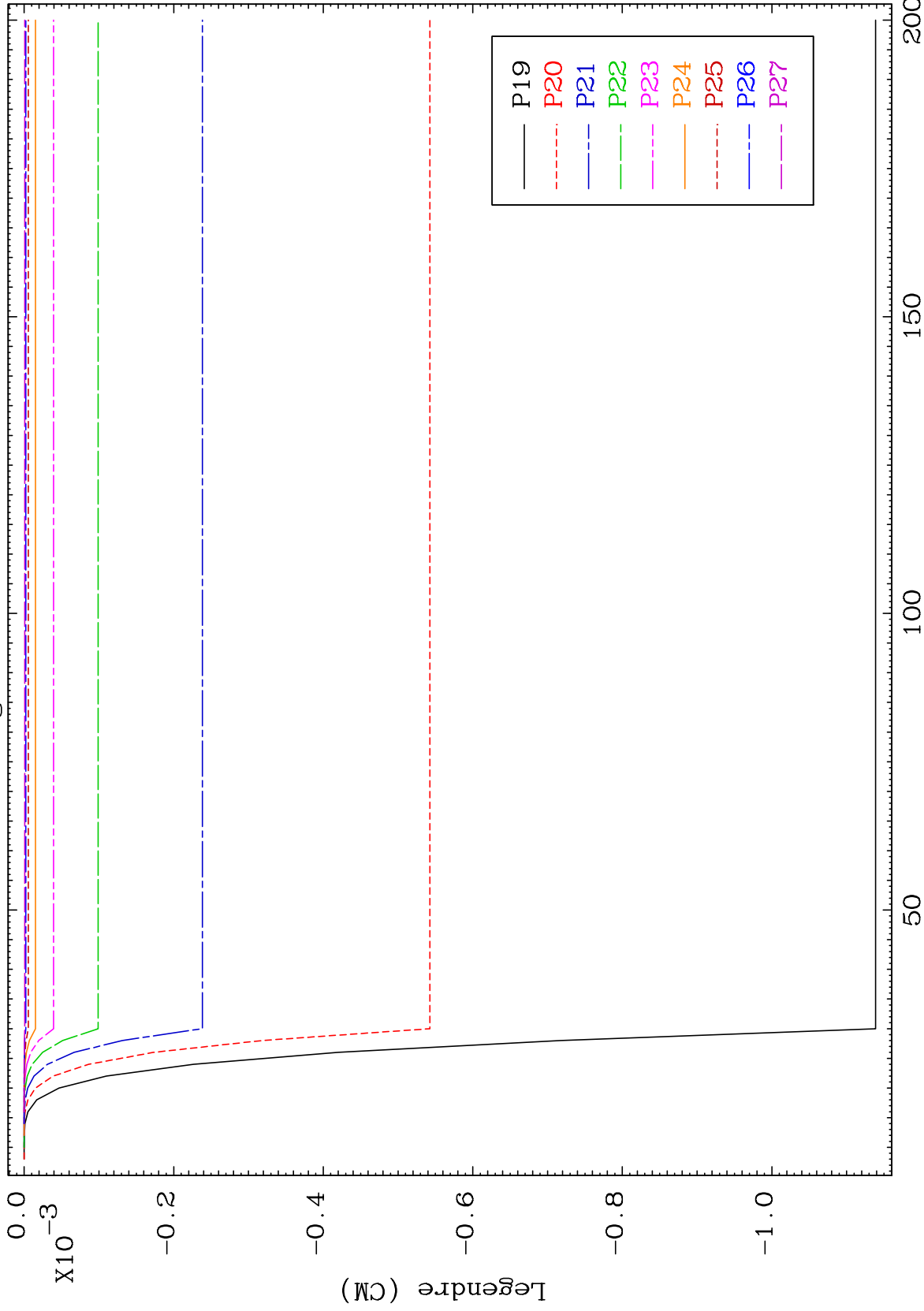
34-Se-79



MAT 3440

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

34-Se-79



34-Se-79

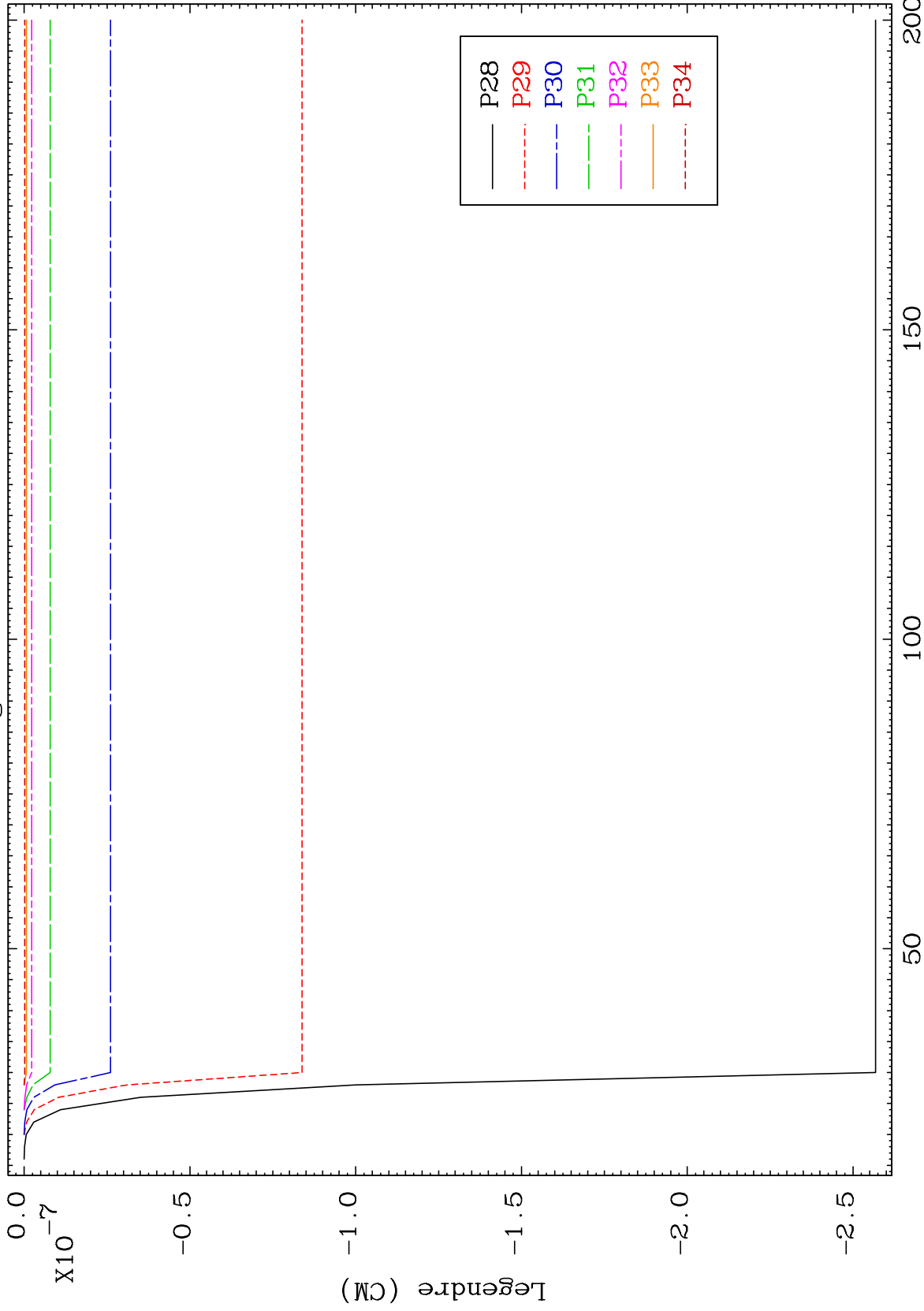
Incident Energy (MeV)

97

MAT 3440

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

34-Se-79



98

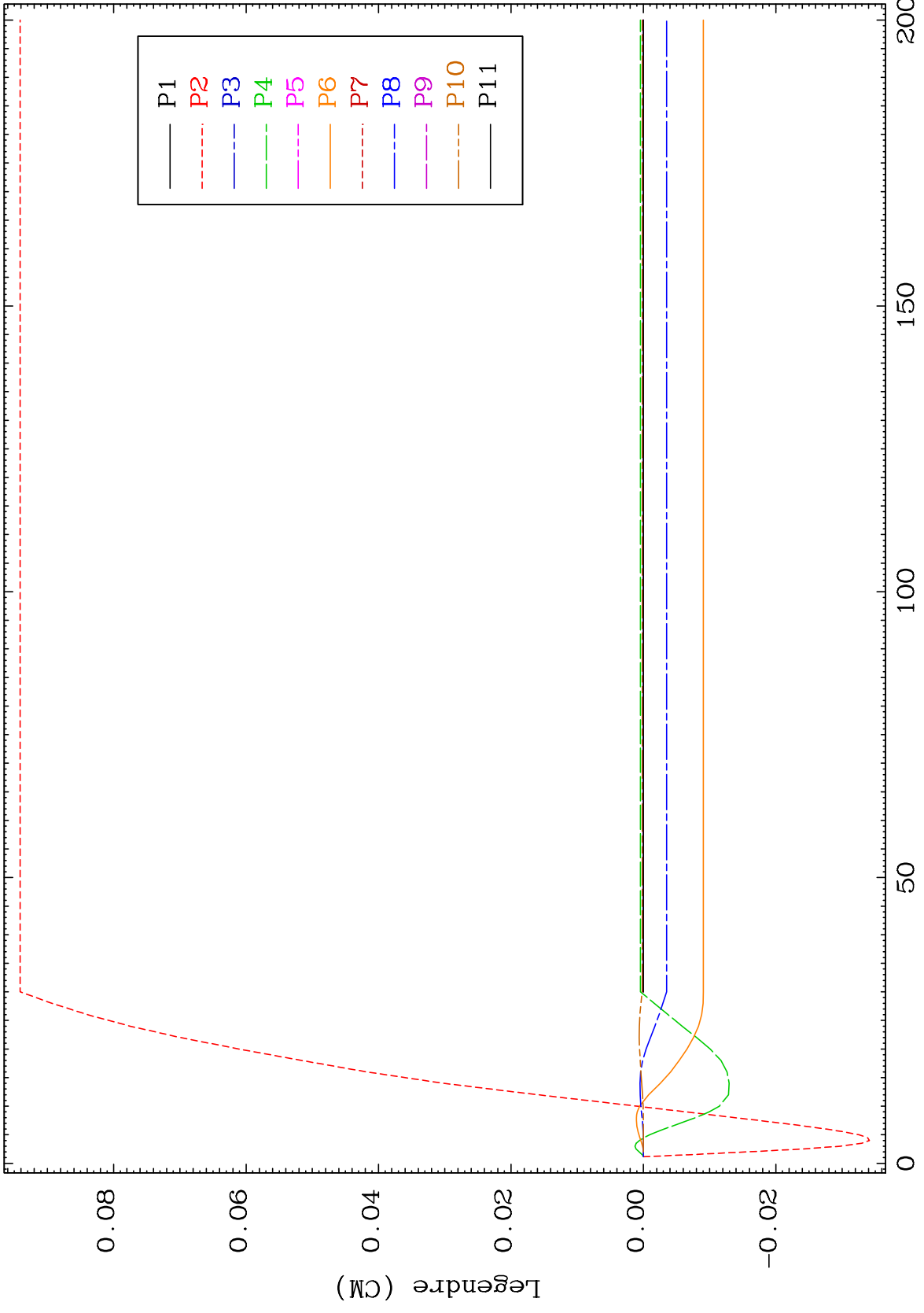
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



99

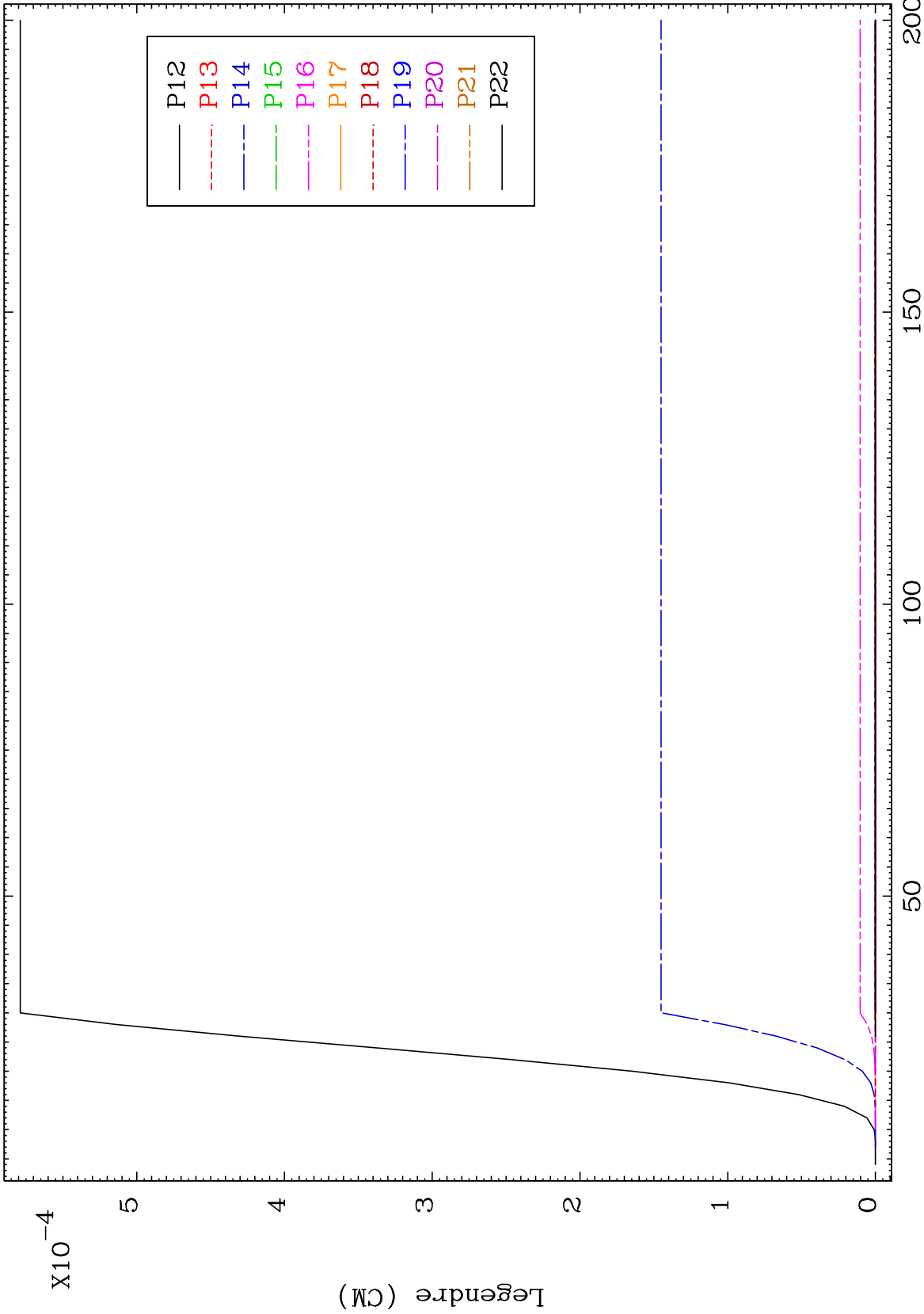
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



34-Se-79

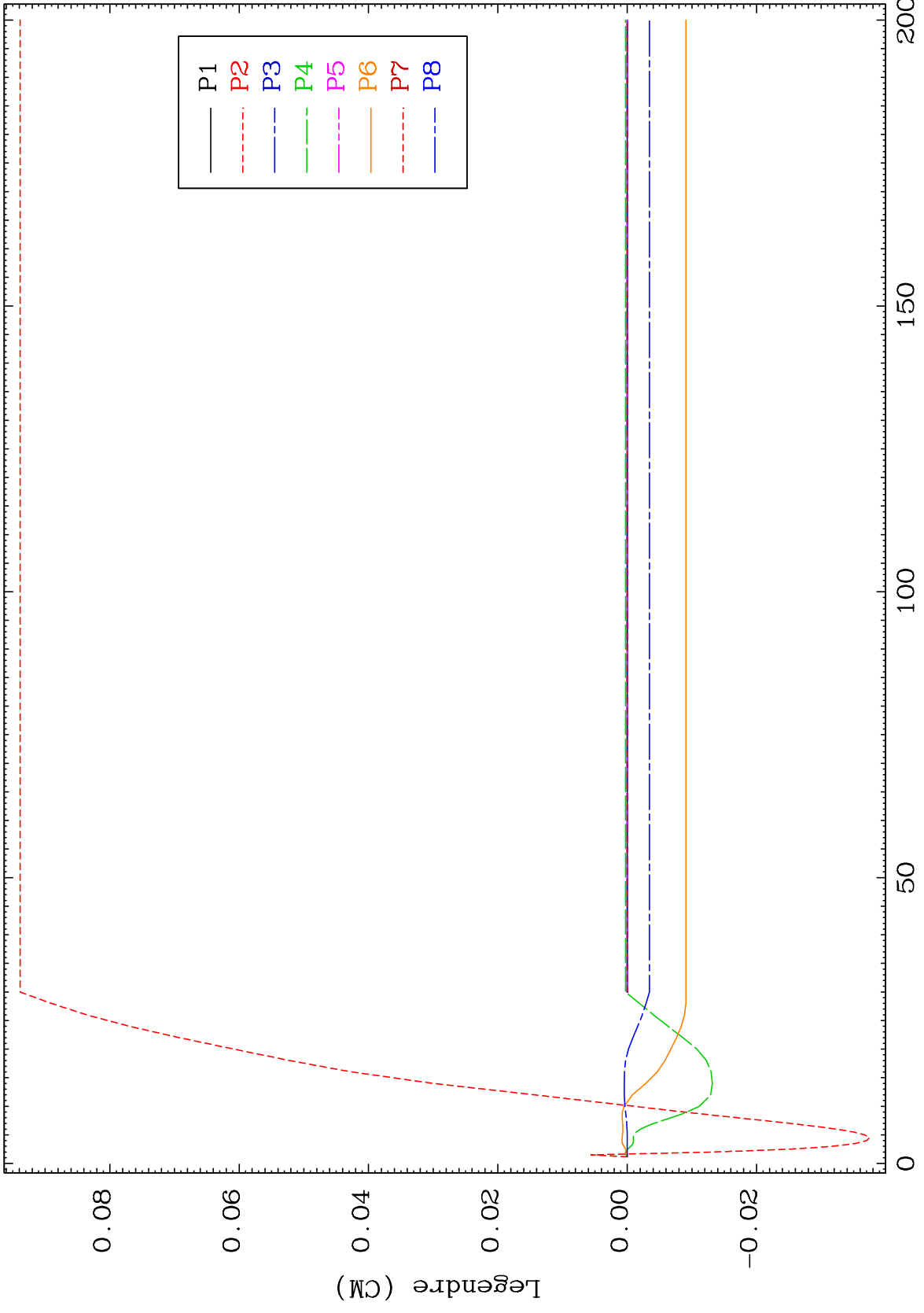
Incident Energy (MeV)

Legendre (CM)

MAT 3440

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

34-Se-79



101

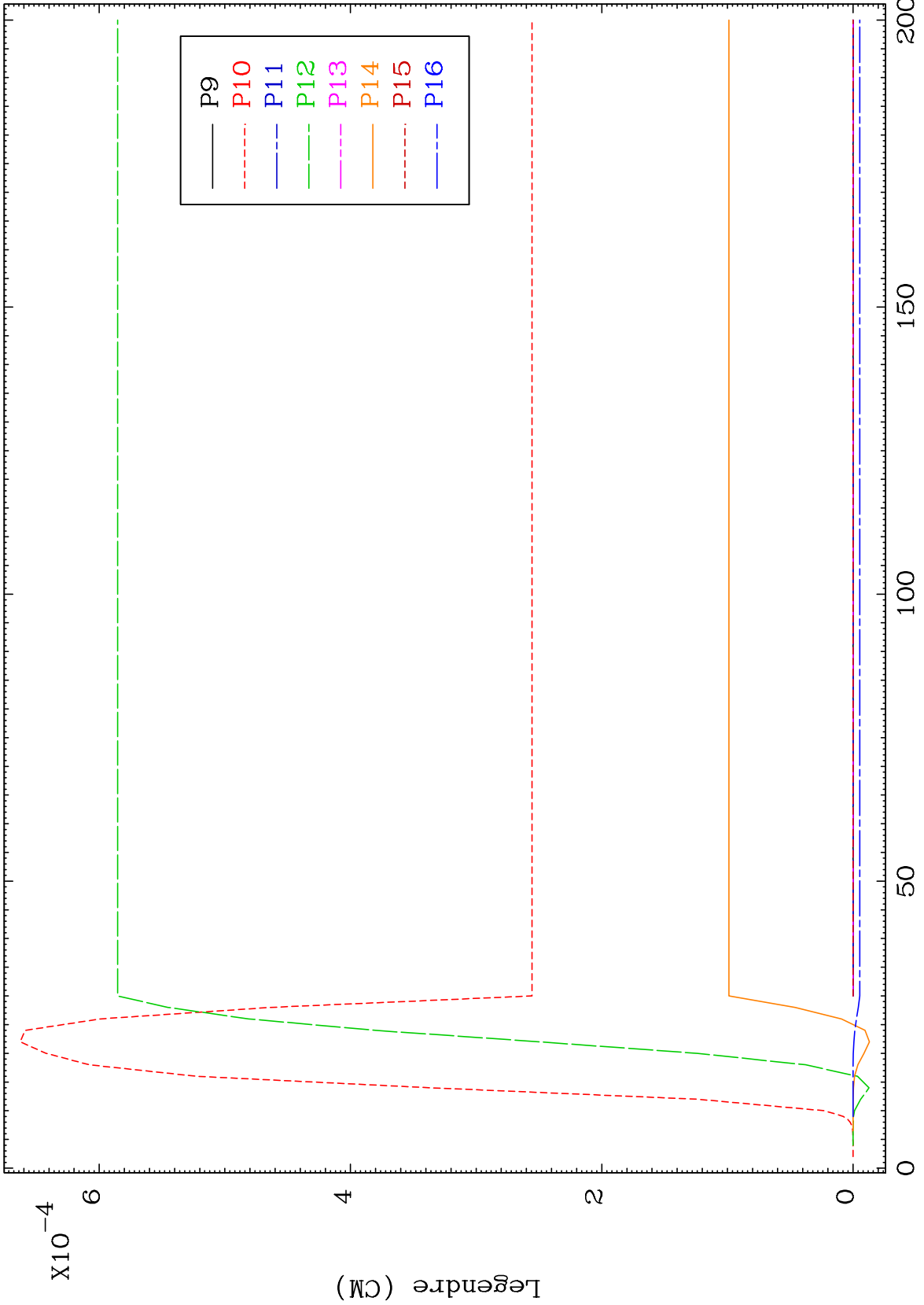
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79

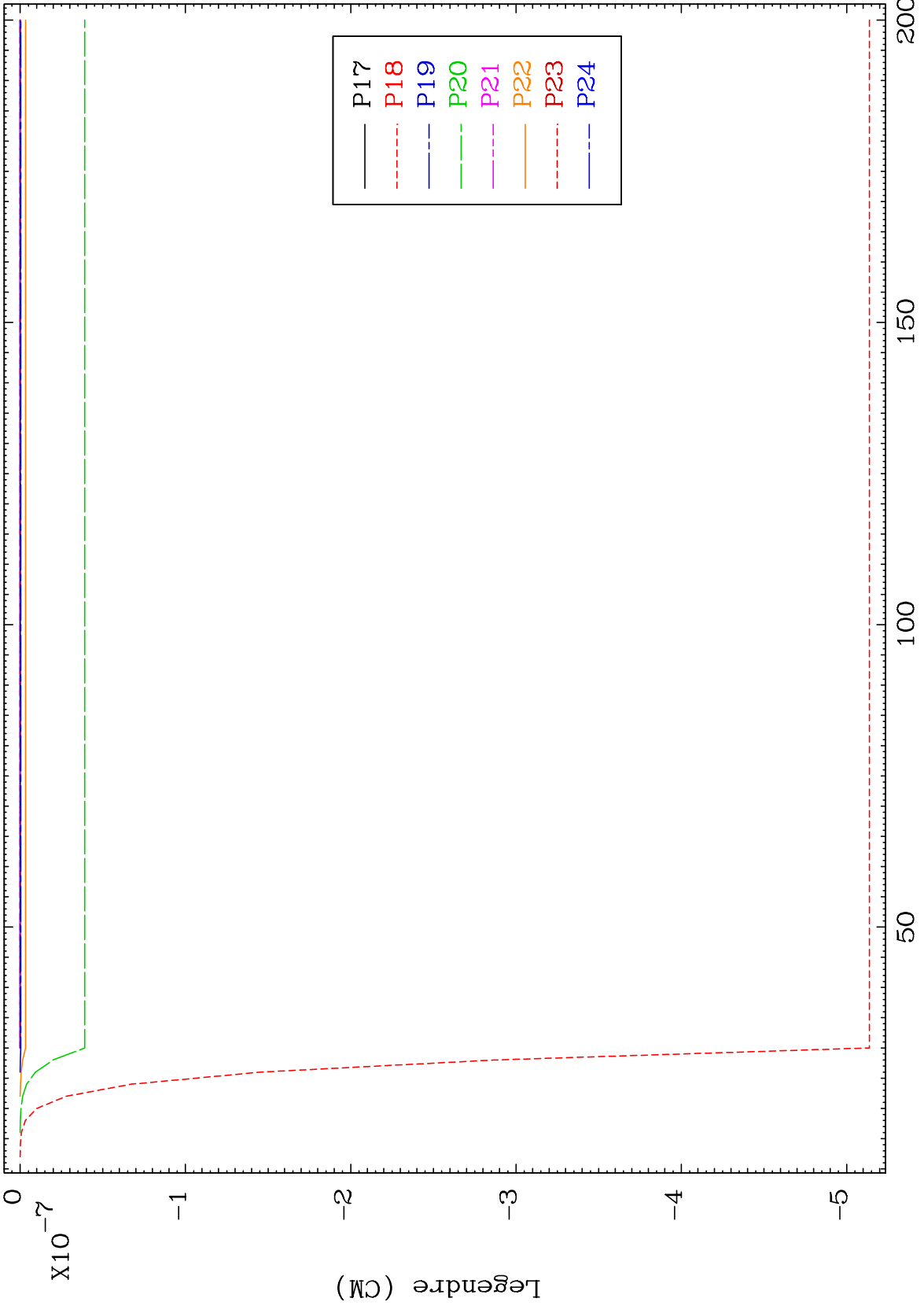


102

34-Se-79

34-Se-79

MAT 3440 MT= 76 (n,n') Level Legendre Coefficients 34-Se-79

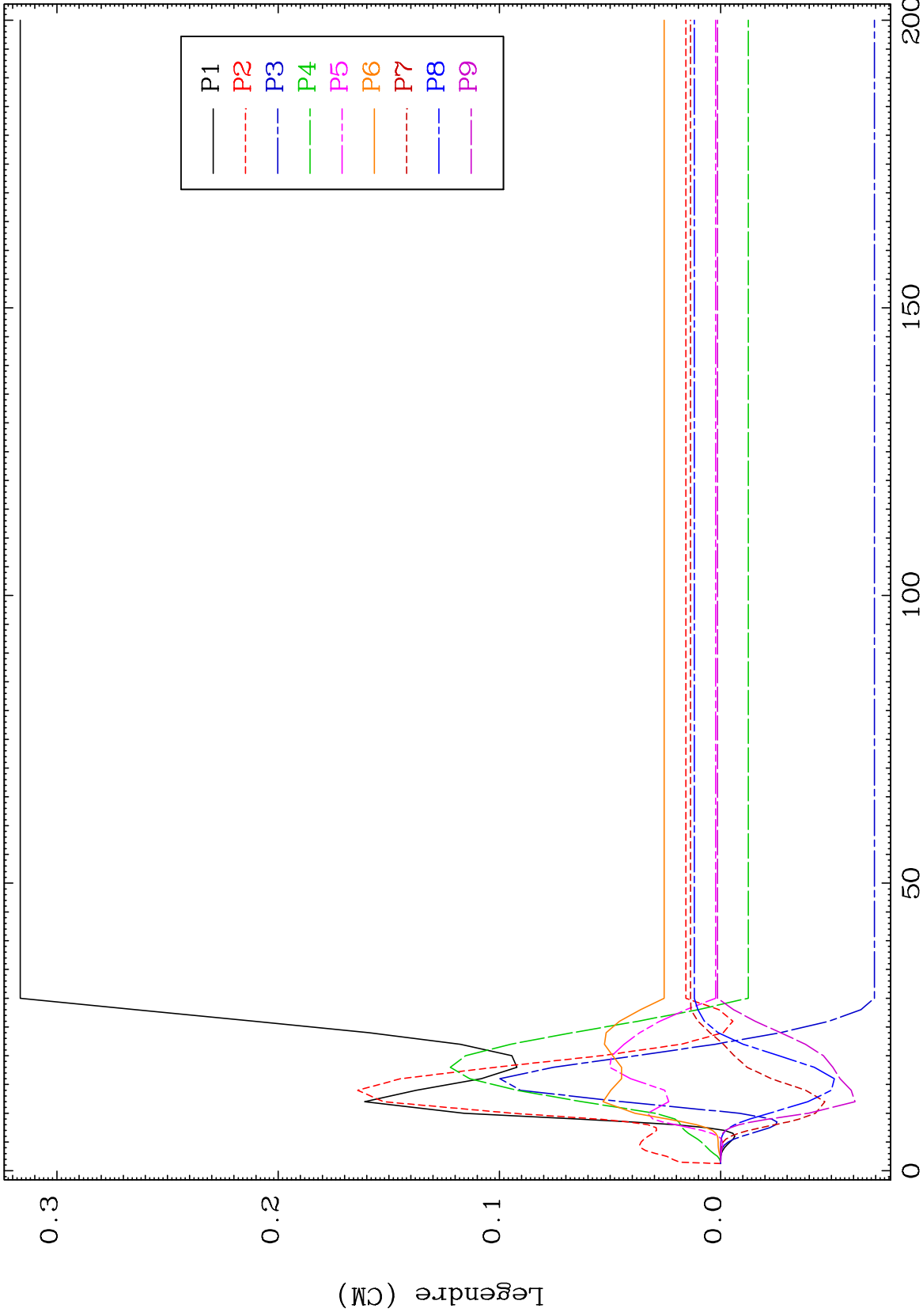


103 34-Se-79

MAT 3440

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

34-Se-79



34-Se-79

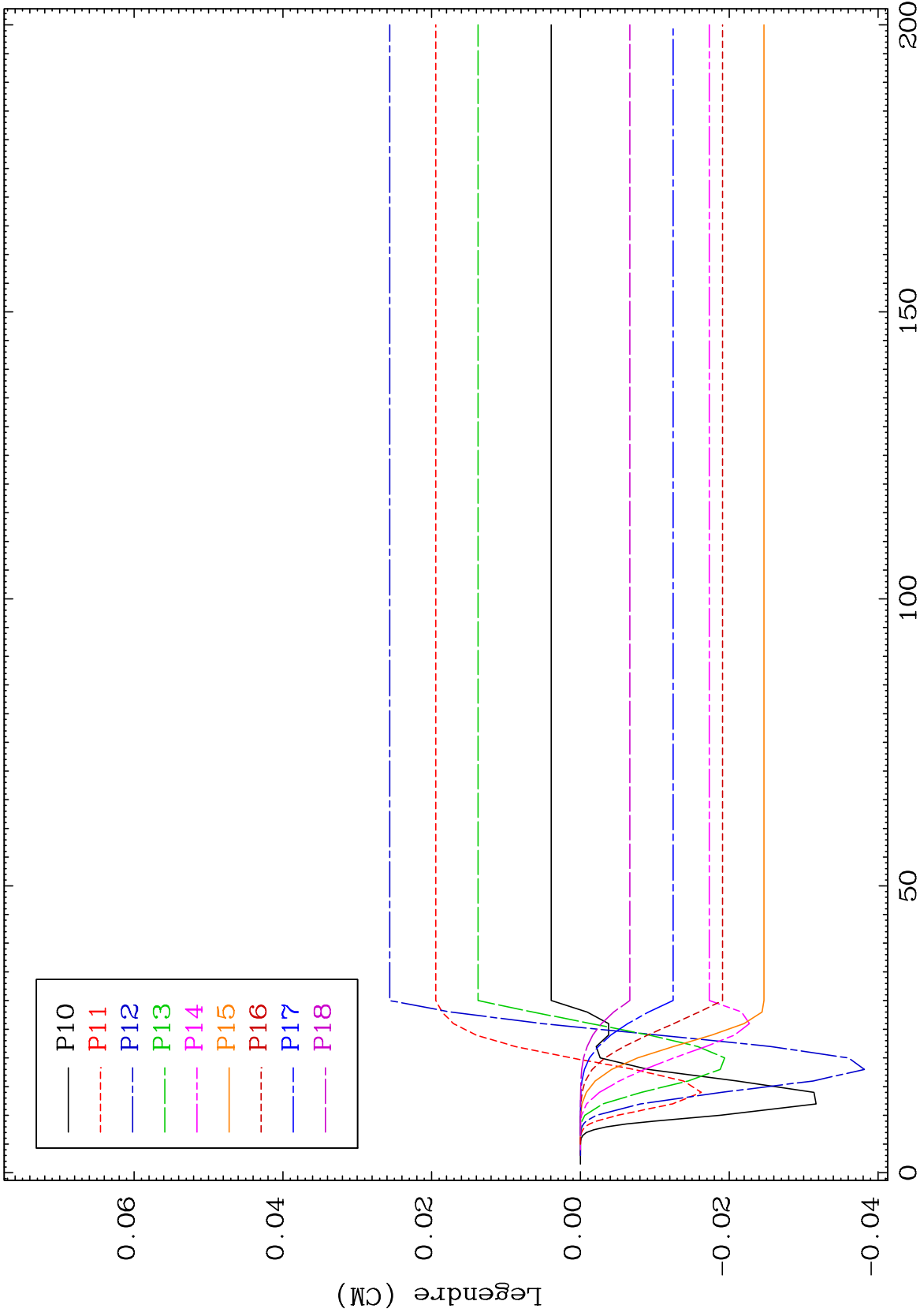
Incident Energy (MeV)

104

MAT 3440

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

34-Se-79

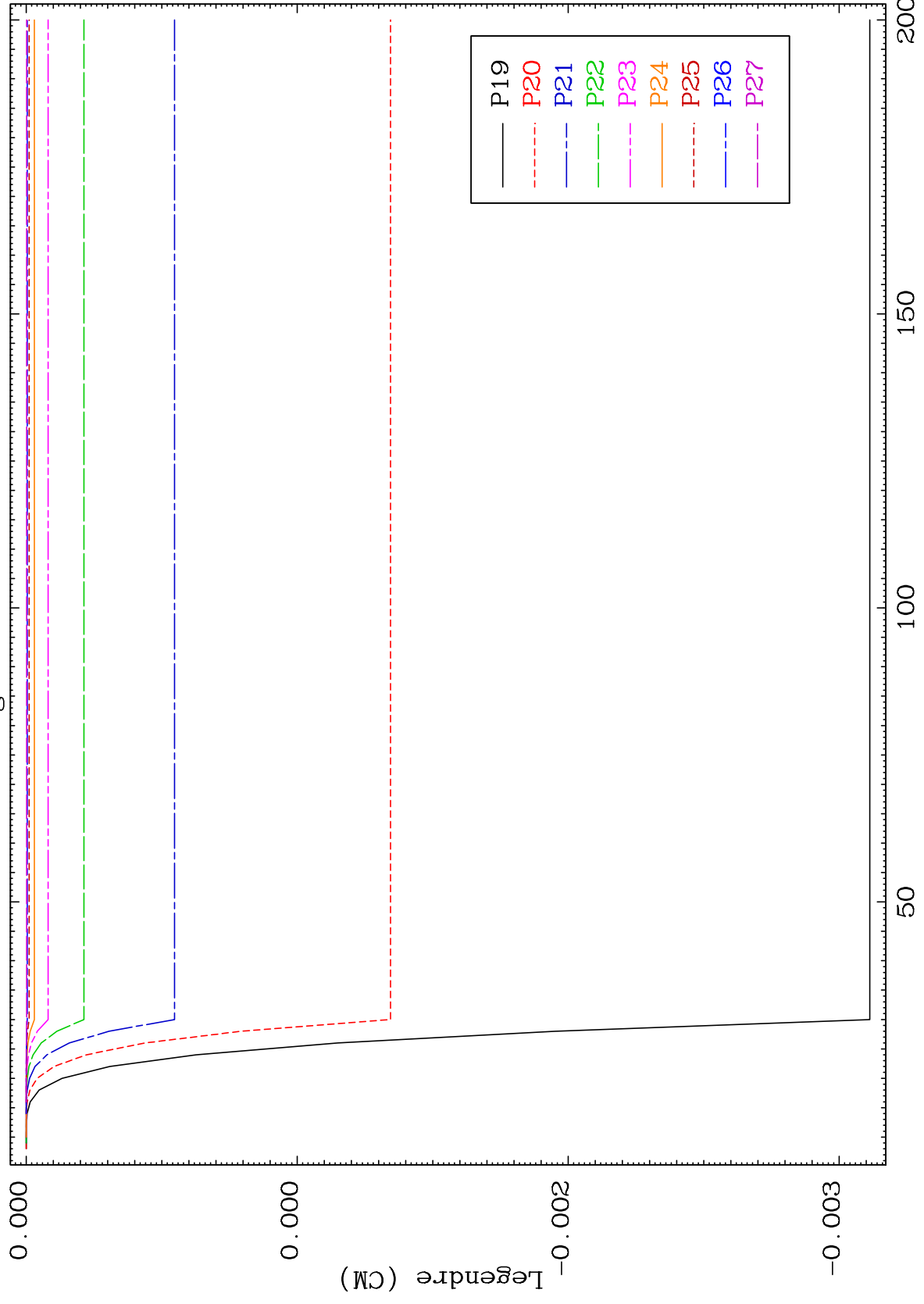


105

Incident Energy (MeV)

34-Se-79

MAT 3440 MT= 77 (n,n') Level Legendre Coefficients 34-Se-79

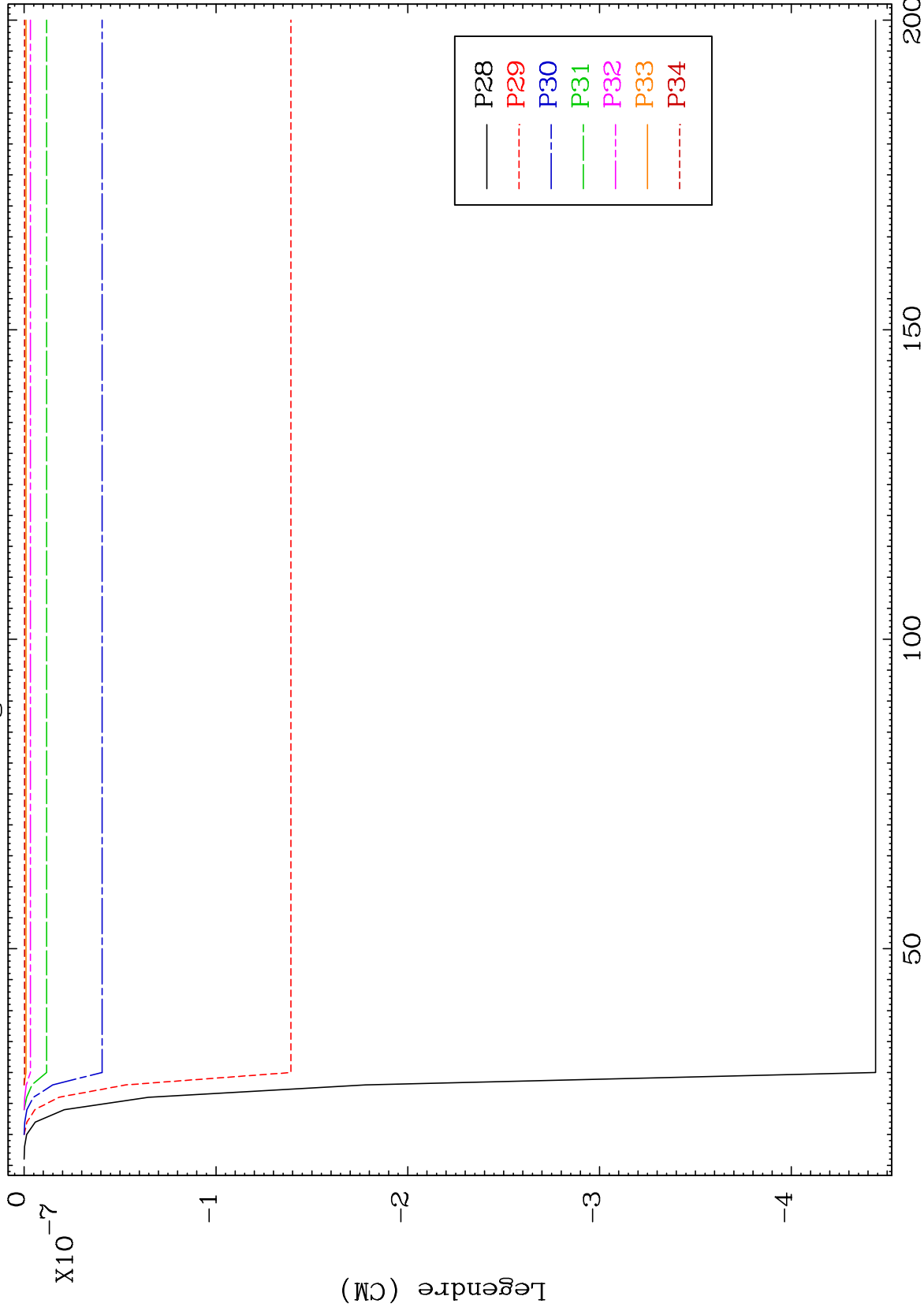


106 34-Se-79

MAT 3440

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

34-Se-79



34-Se-79

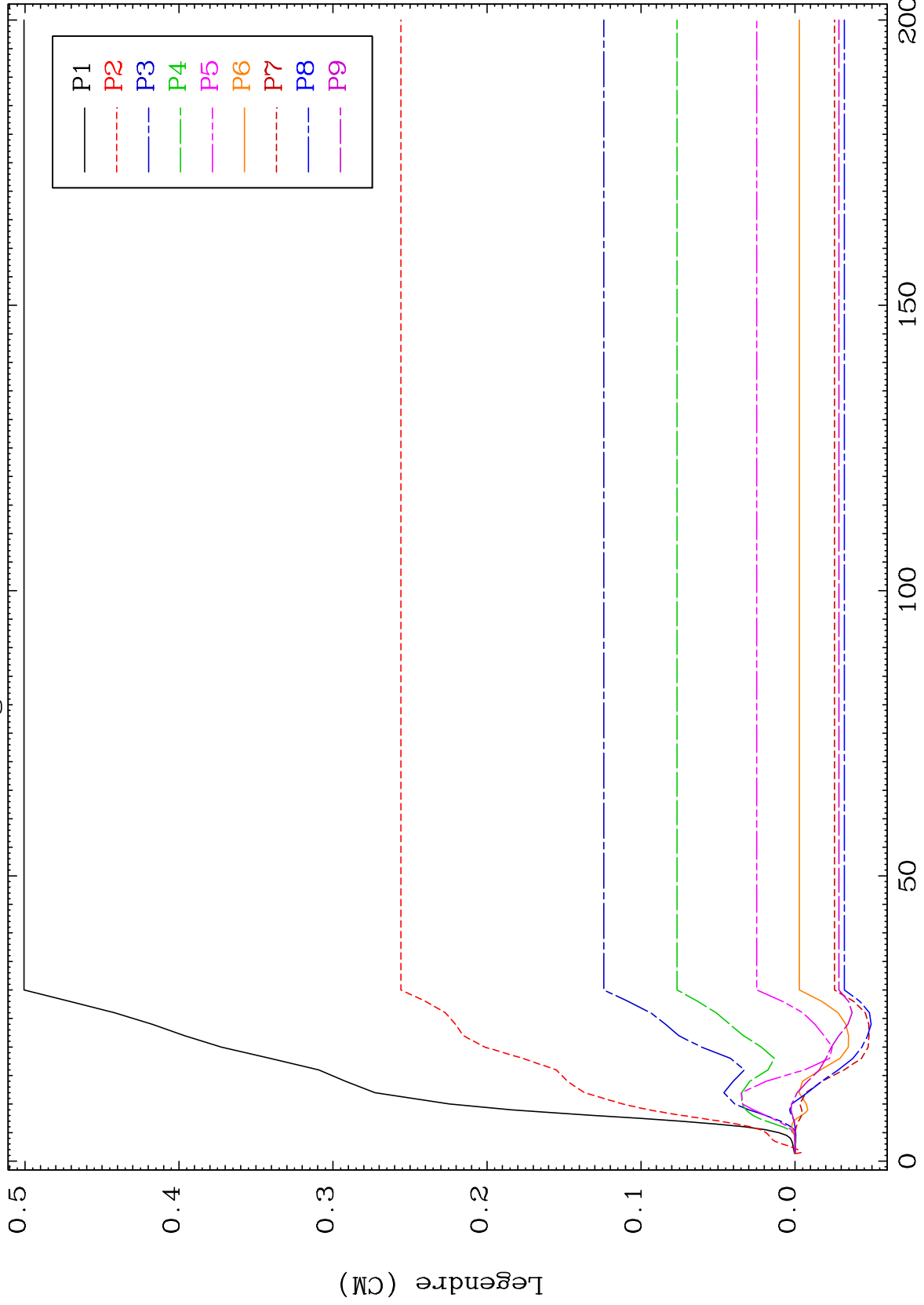
Incident Energy (MeV)

107

MAT 3440

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

34-Se-79



108

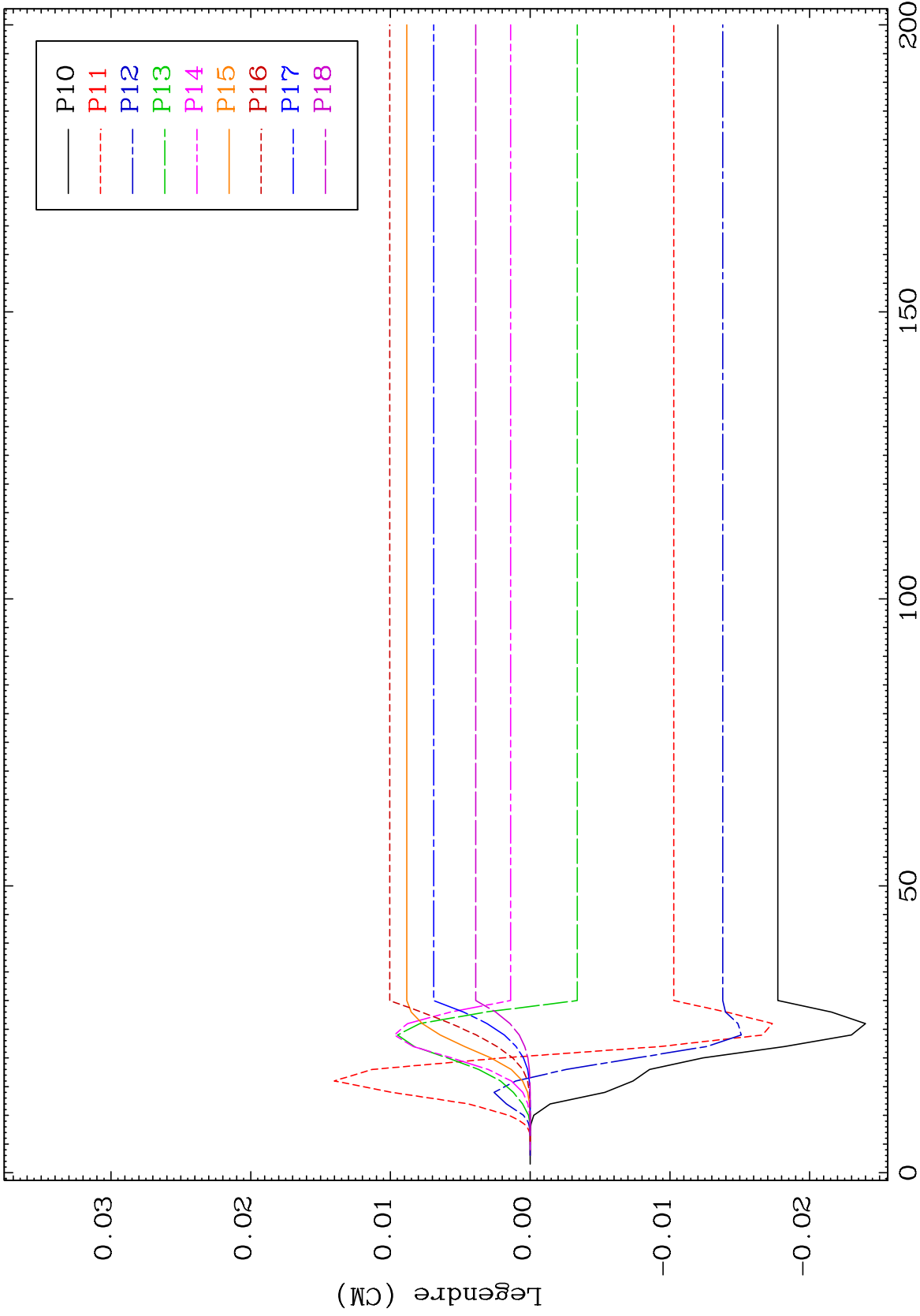
Incident Energy (MeV)

34-Se-79

MAT 3440

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

<sup>34</sup>Se-79



109

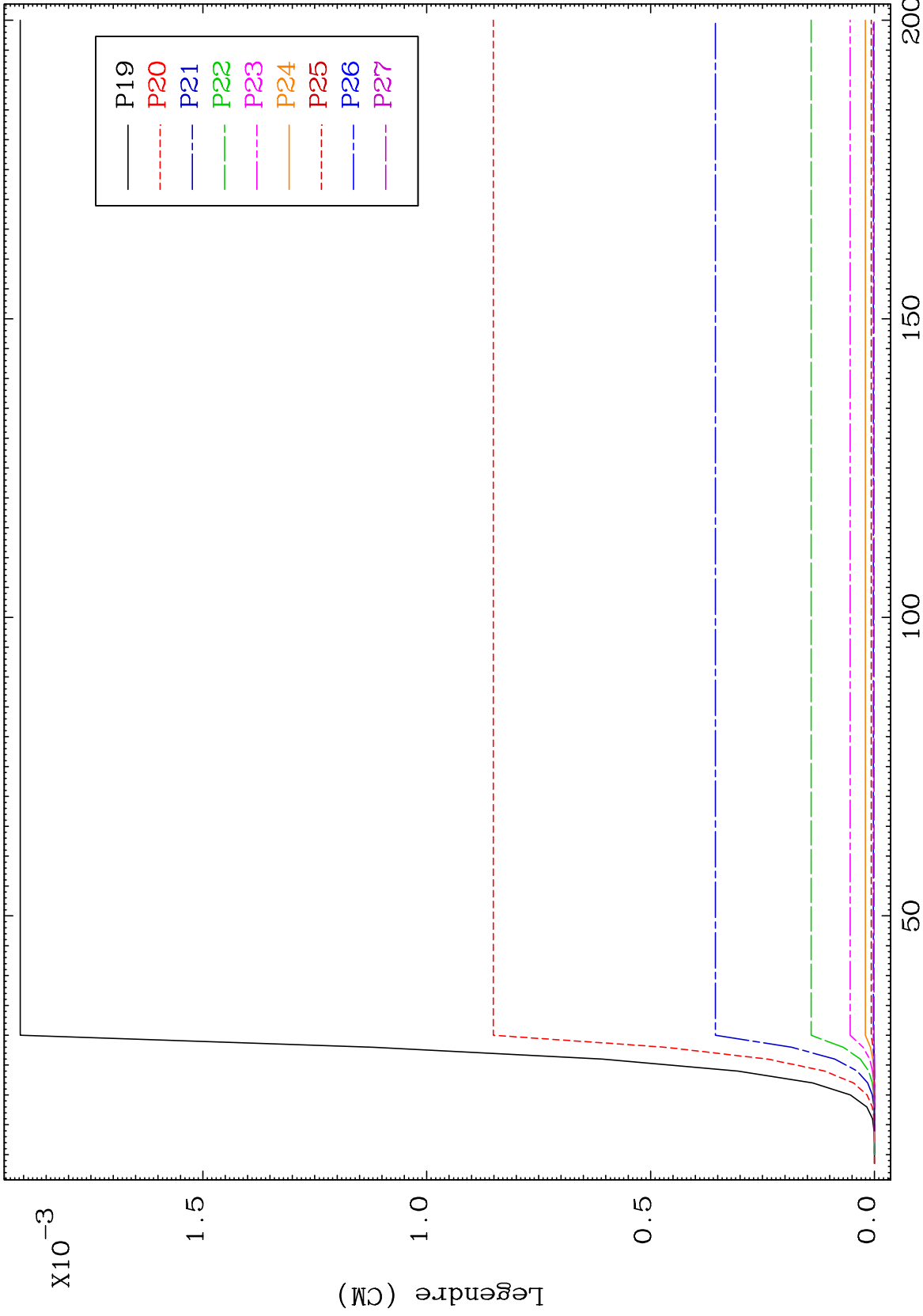
Incident Energy (MeV)

<sup>34</sup>Se-79

MAT 3440

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

34-Se-79



110

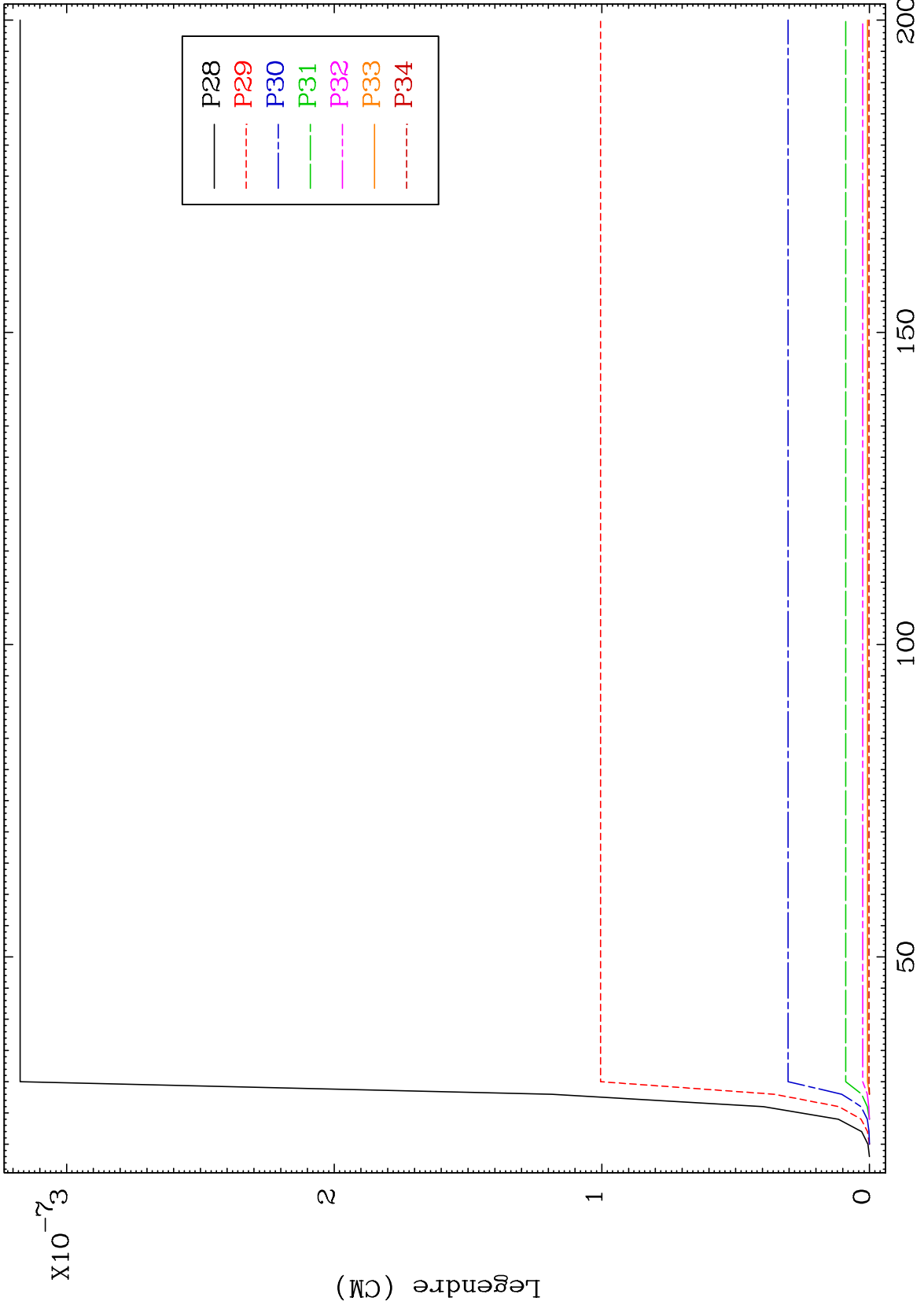
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



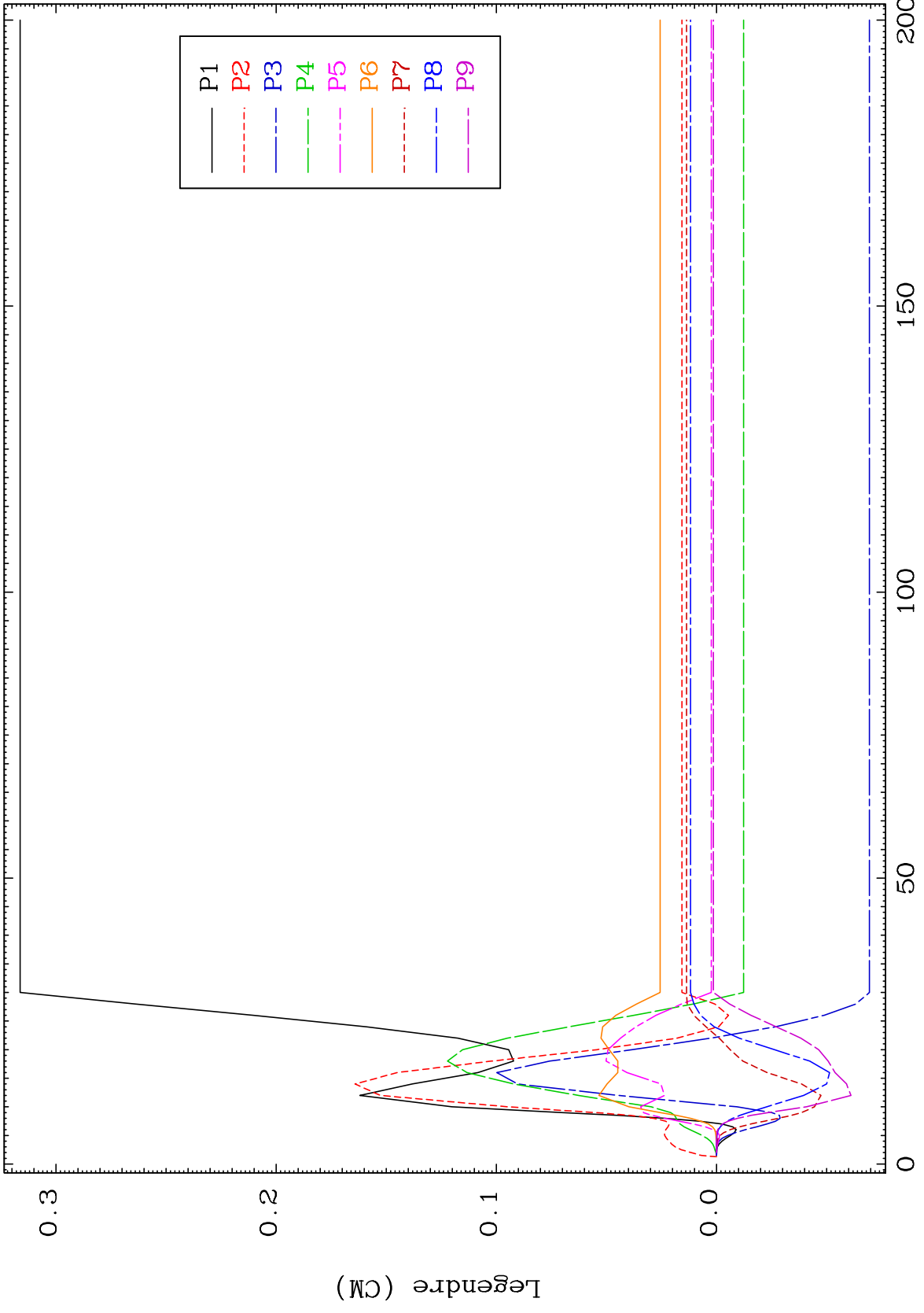
111

34-Se-79

MAT 3440

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

34-Se-79



112

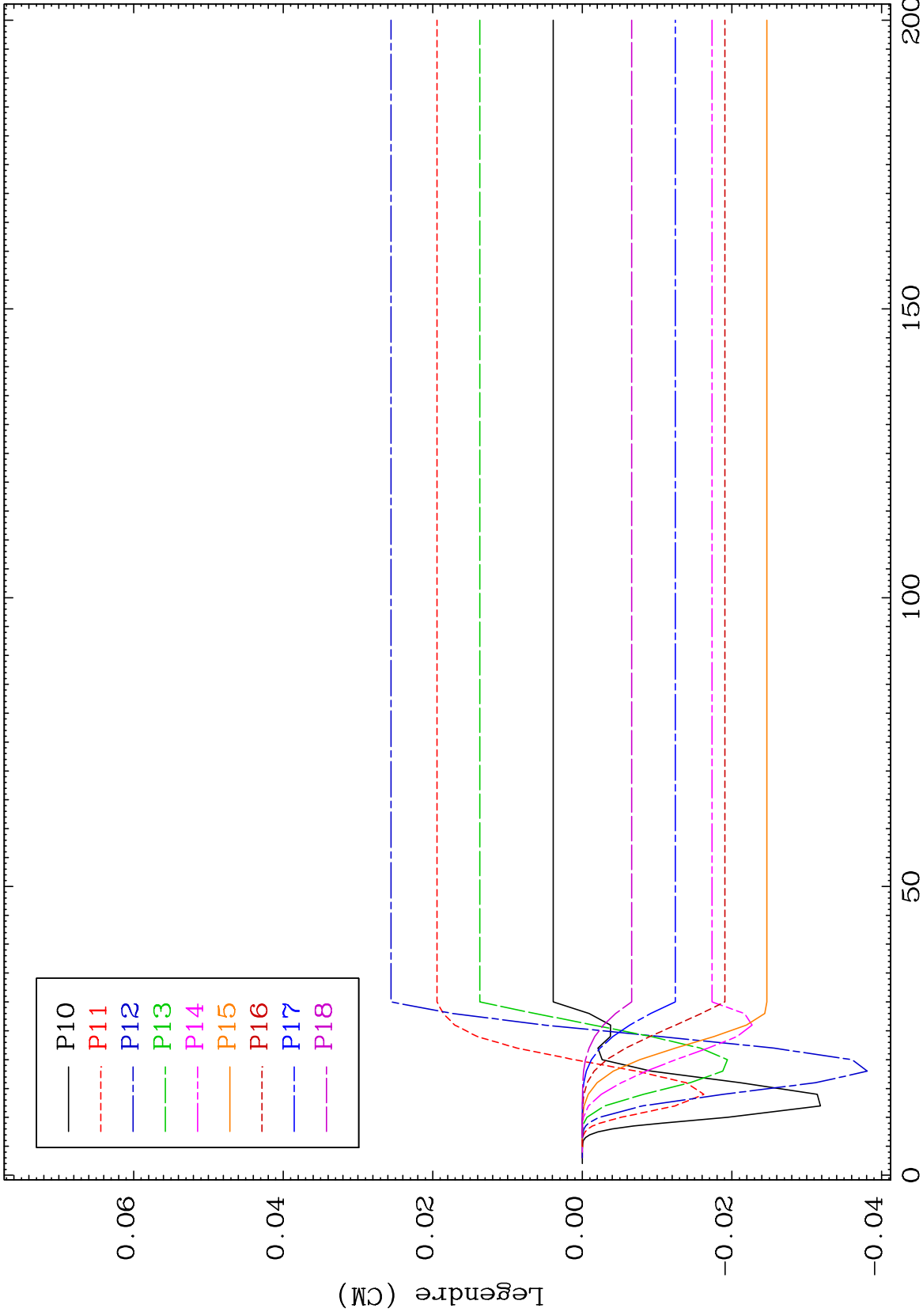
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79

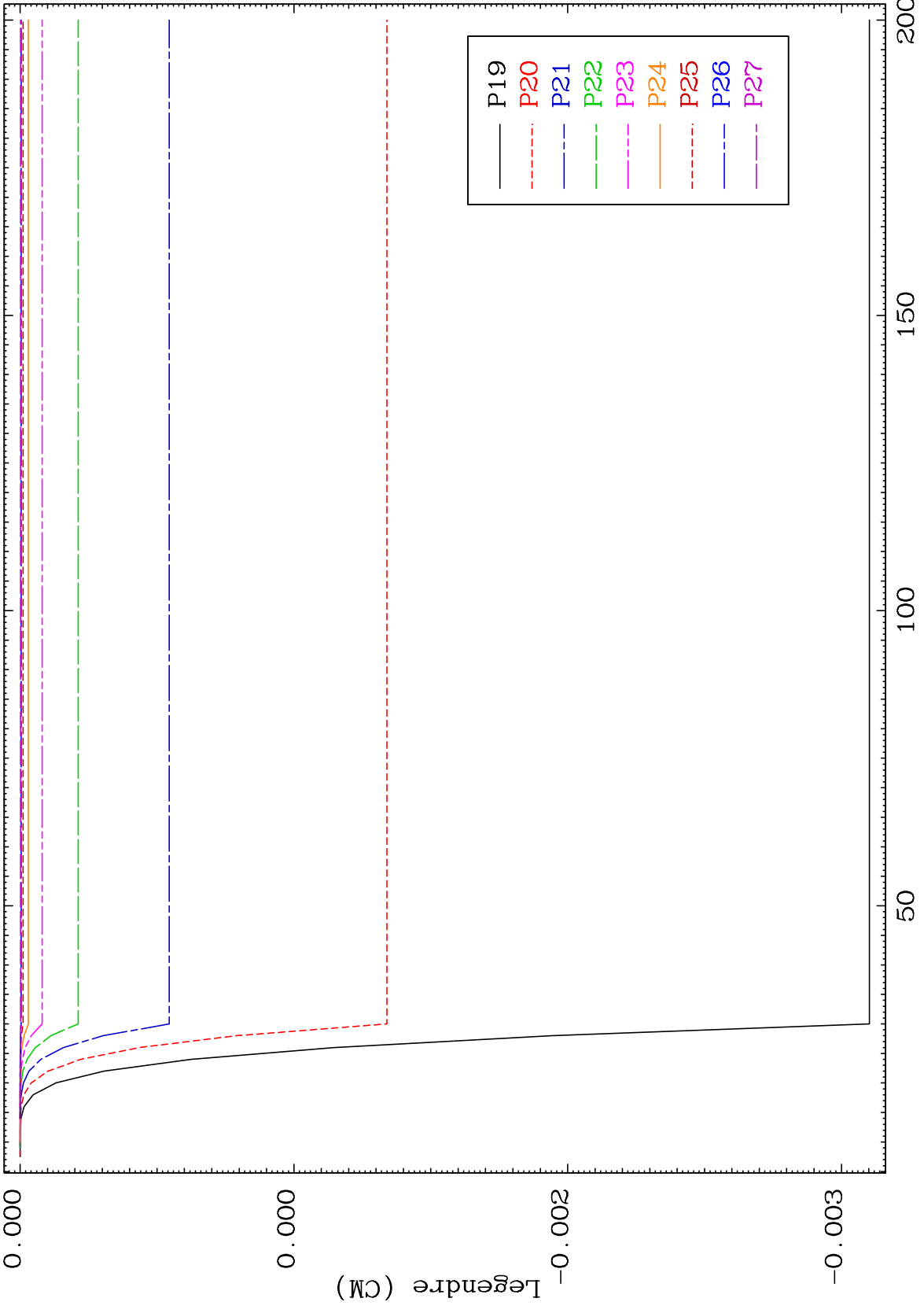


113

Incident Energy (MeV)

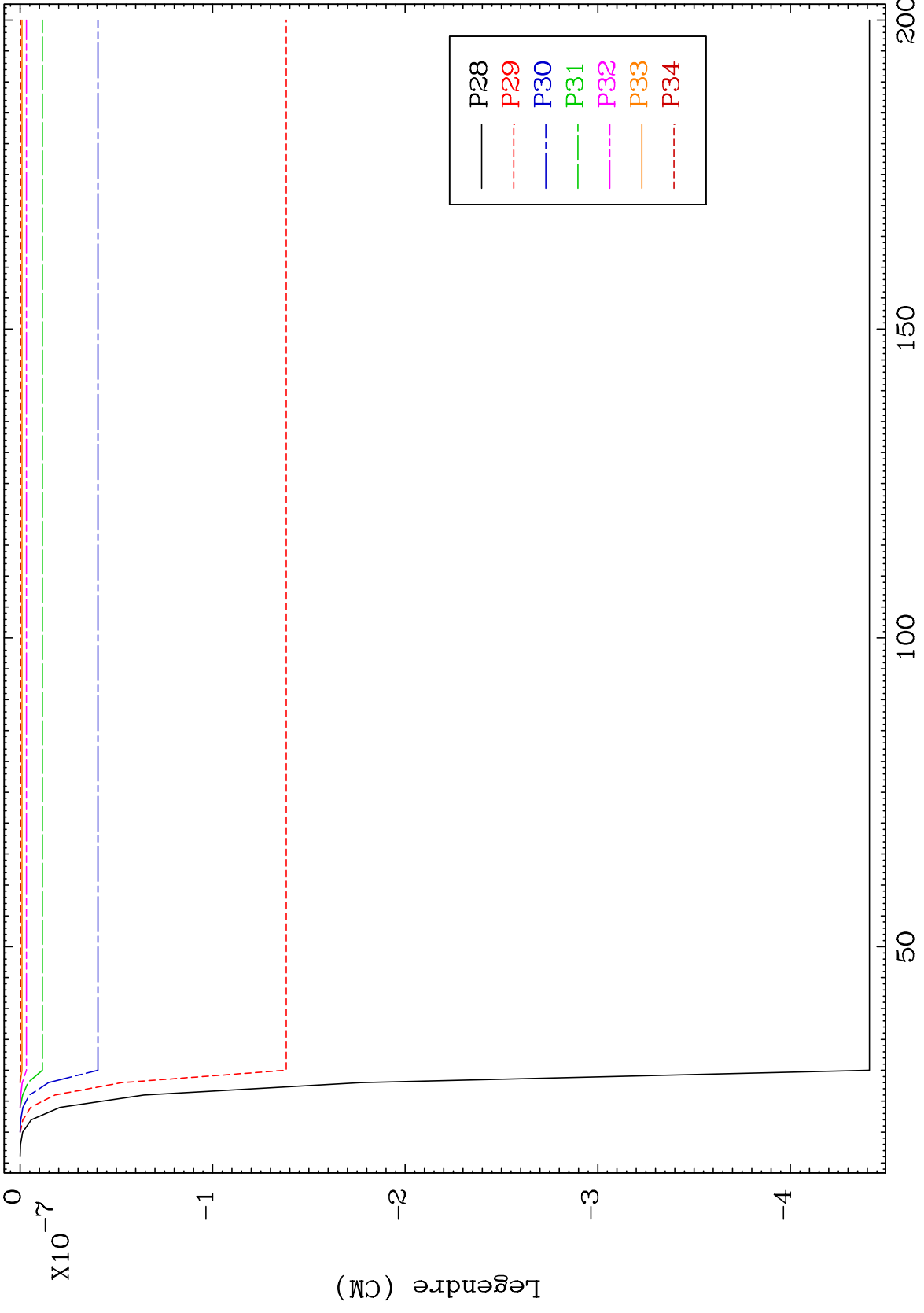
34-Se-79

MAT 3440 MT= 79 (n,n') Level Legendre Coefficients 34-Se-79



114 34-Se-79

MAT 3440 MT= 79 (n,n') Level Legendre Coefficients 34-Se-79

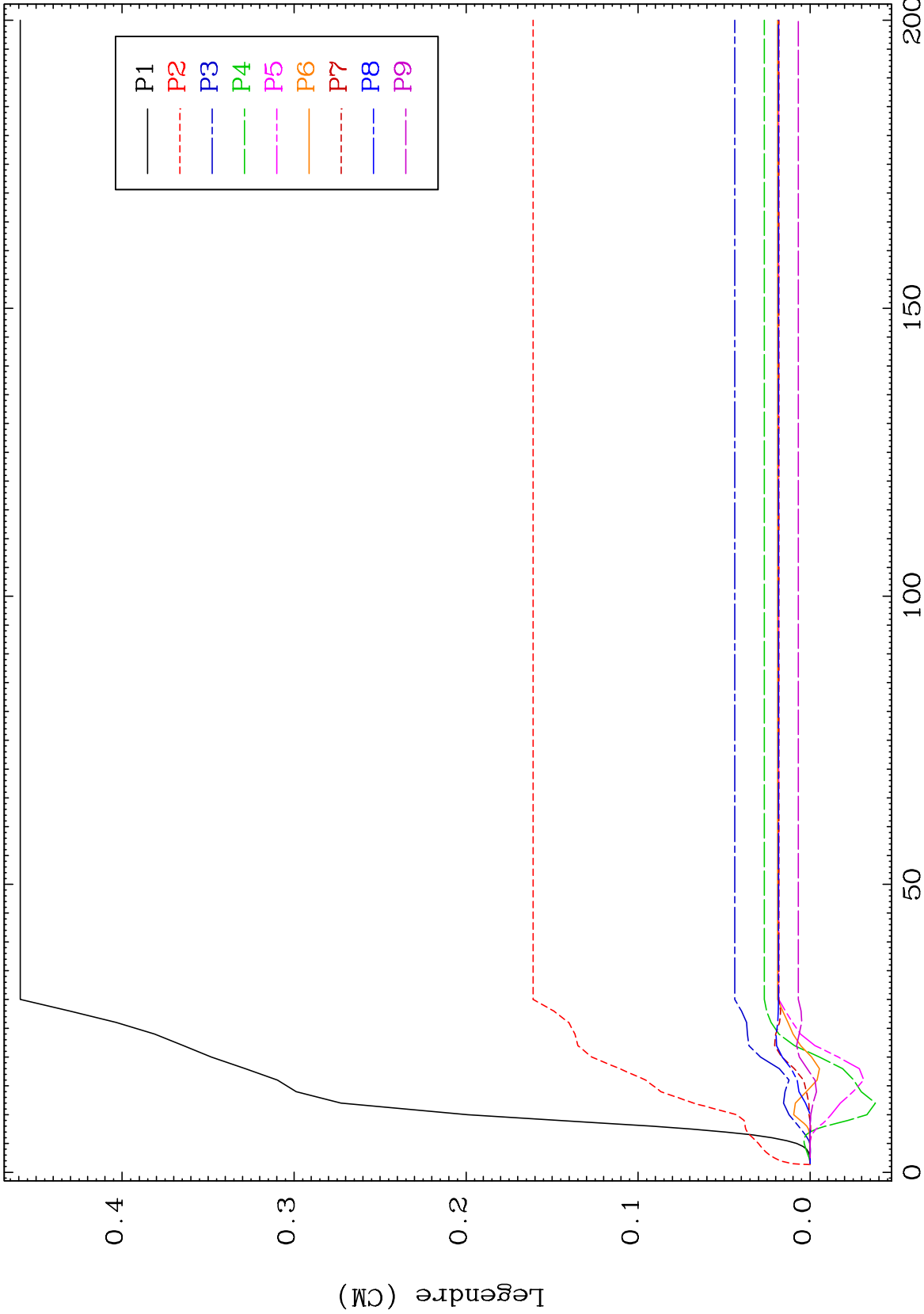


115 34-Se-79

MAT 3440

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

34-Se-79



116

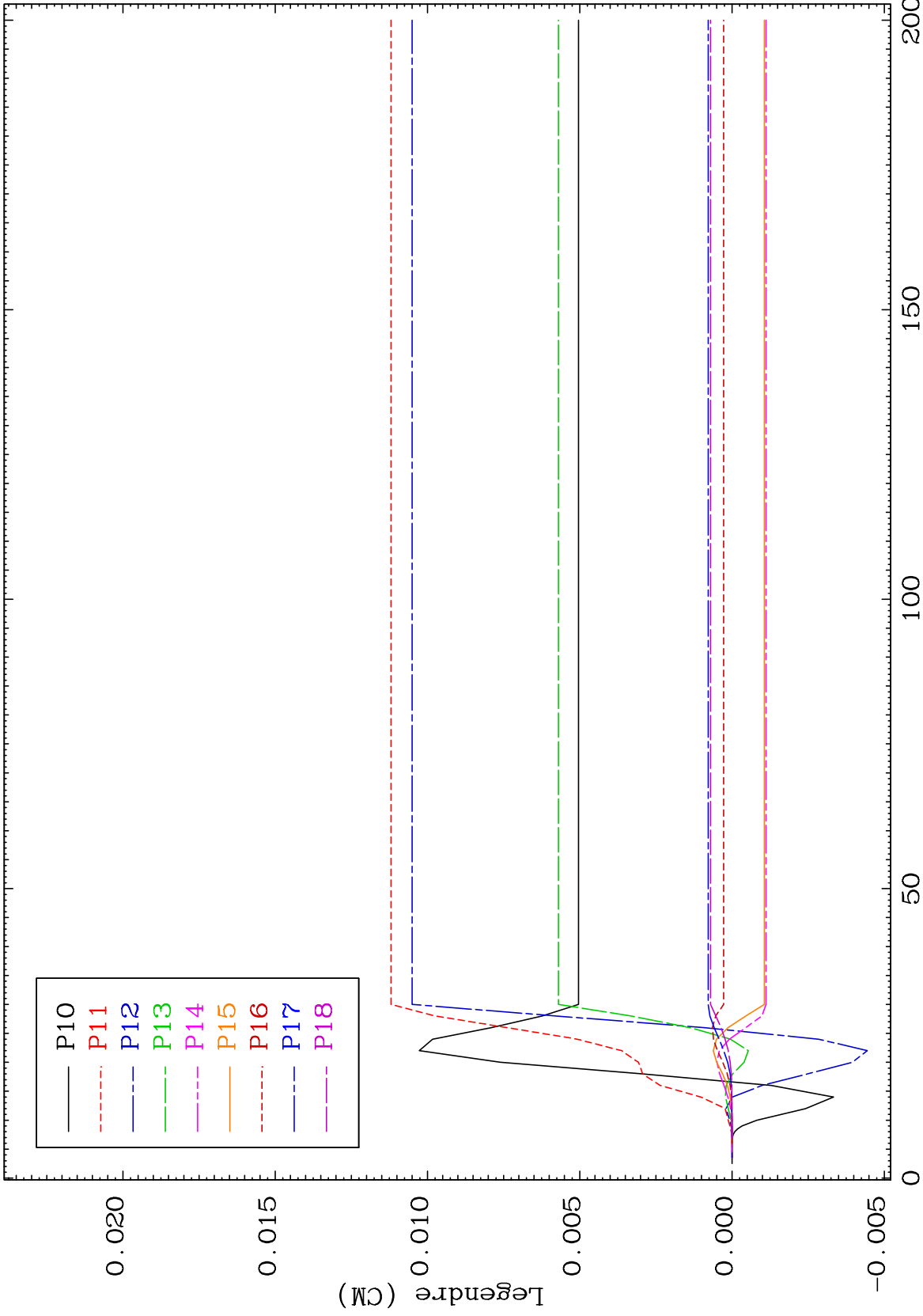
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



117

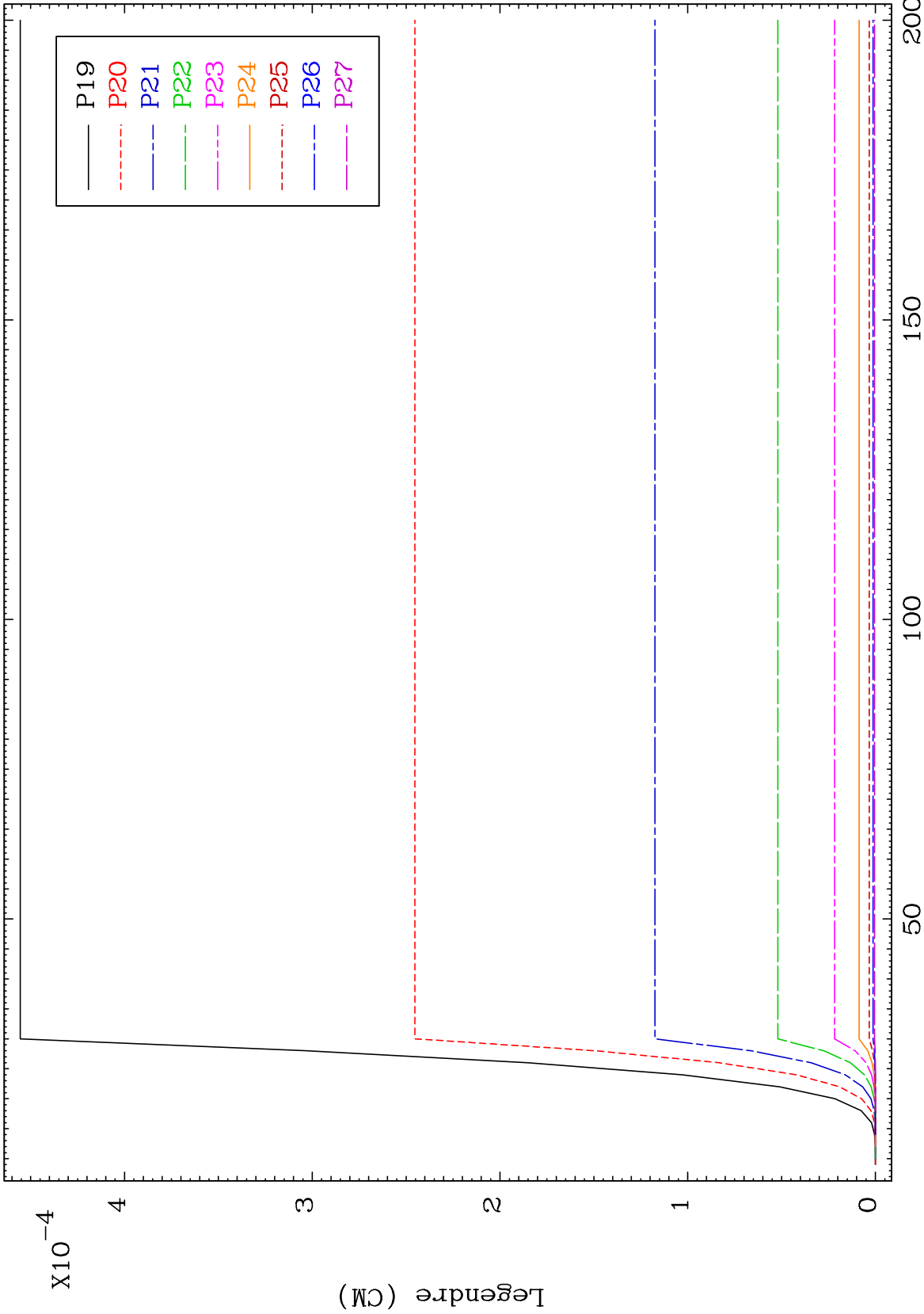
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



118

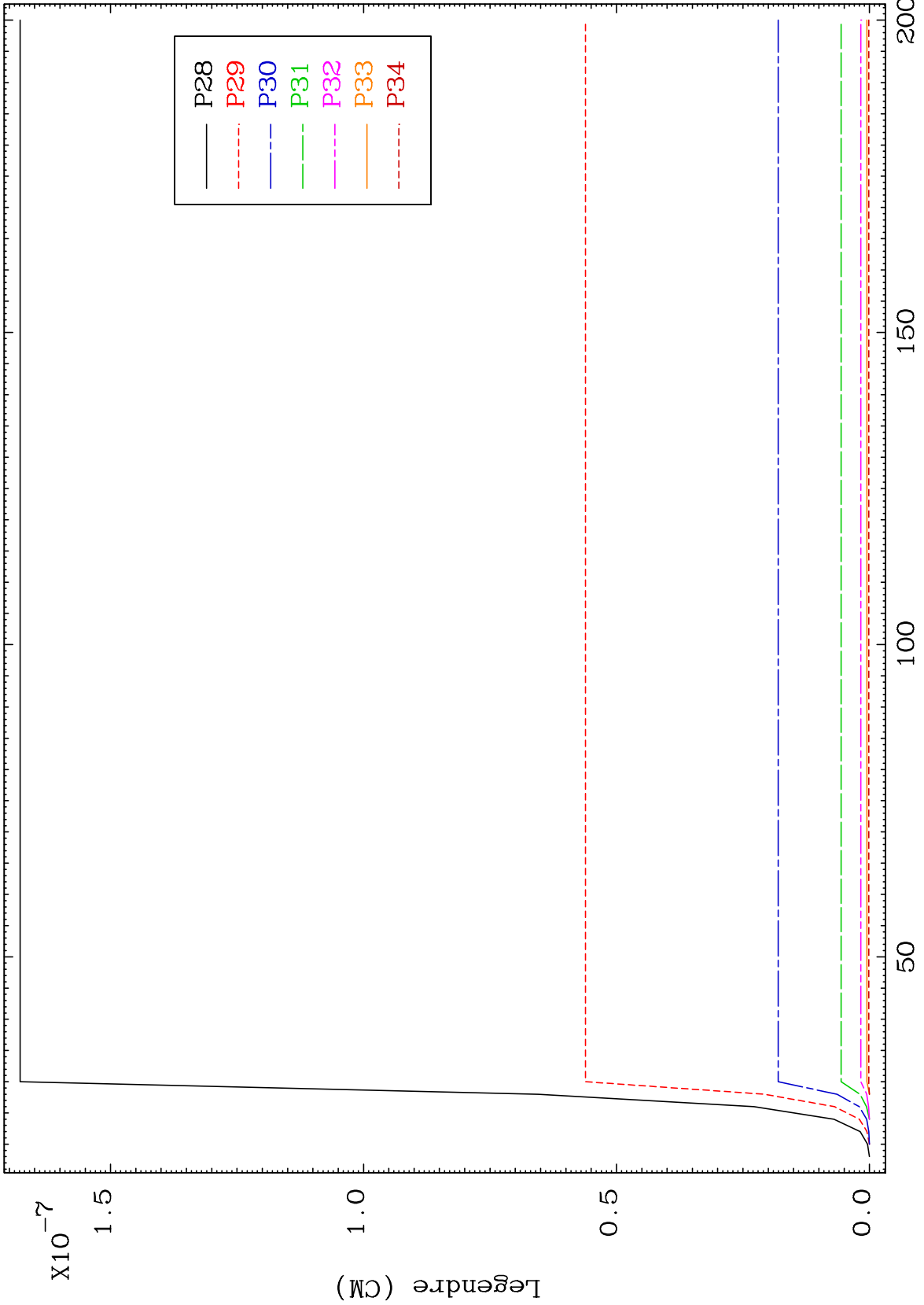
Incident Energy (MeV)

34-Se-79

MAT 3440

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

34-Se-79



119

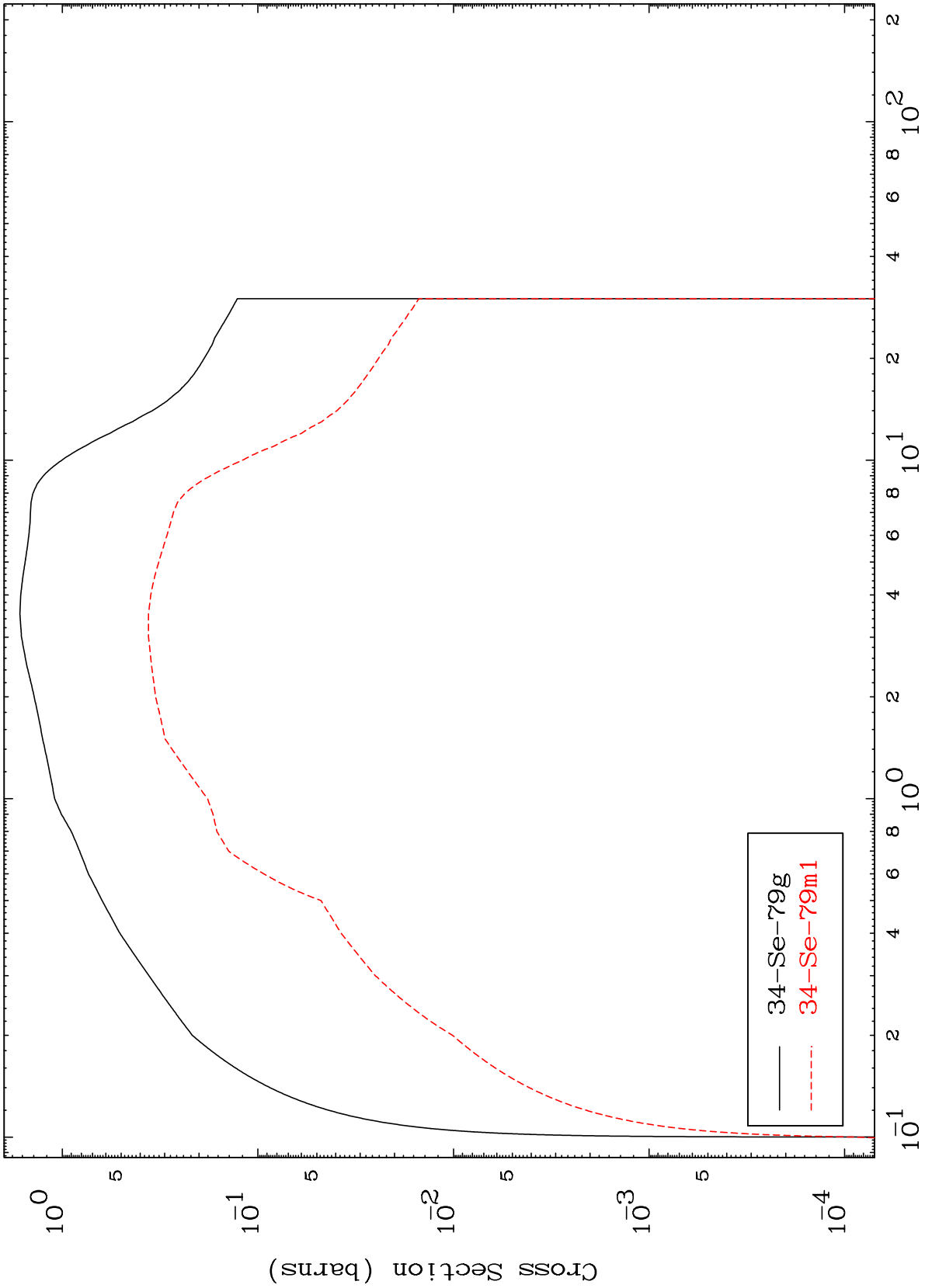
Incident Energy (MeV)

34-Se-79

MAT 3440

34-Se-79

Inelastic  
Radionuclide Production Cross Section



34-Se-79

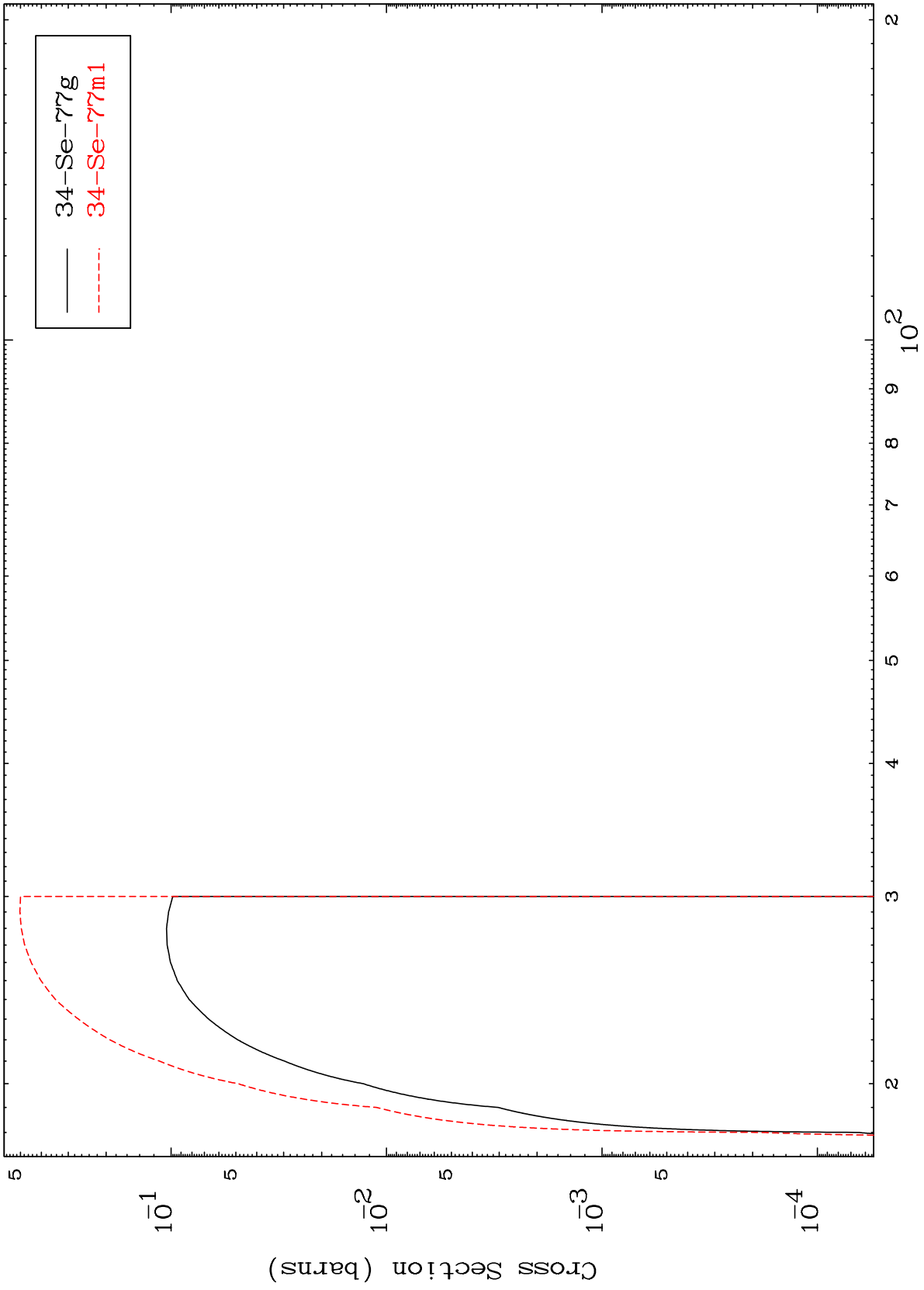
Incident Energy (MeV)

120

MAT 3440

<sup>34</sup>Se-79

(n,3n)  
Radionuclide Production Cross Section



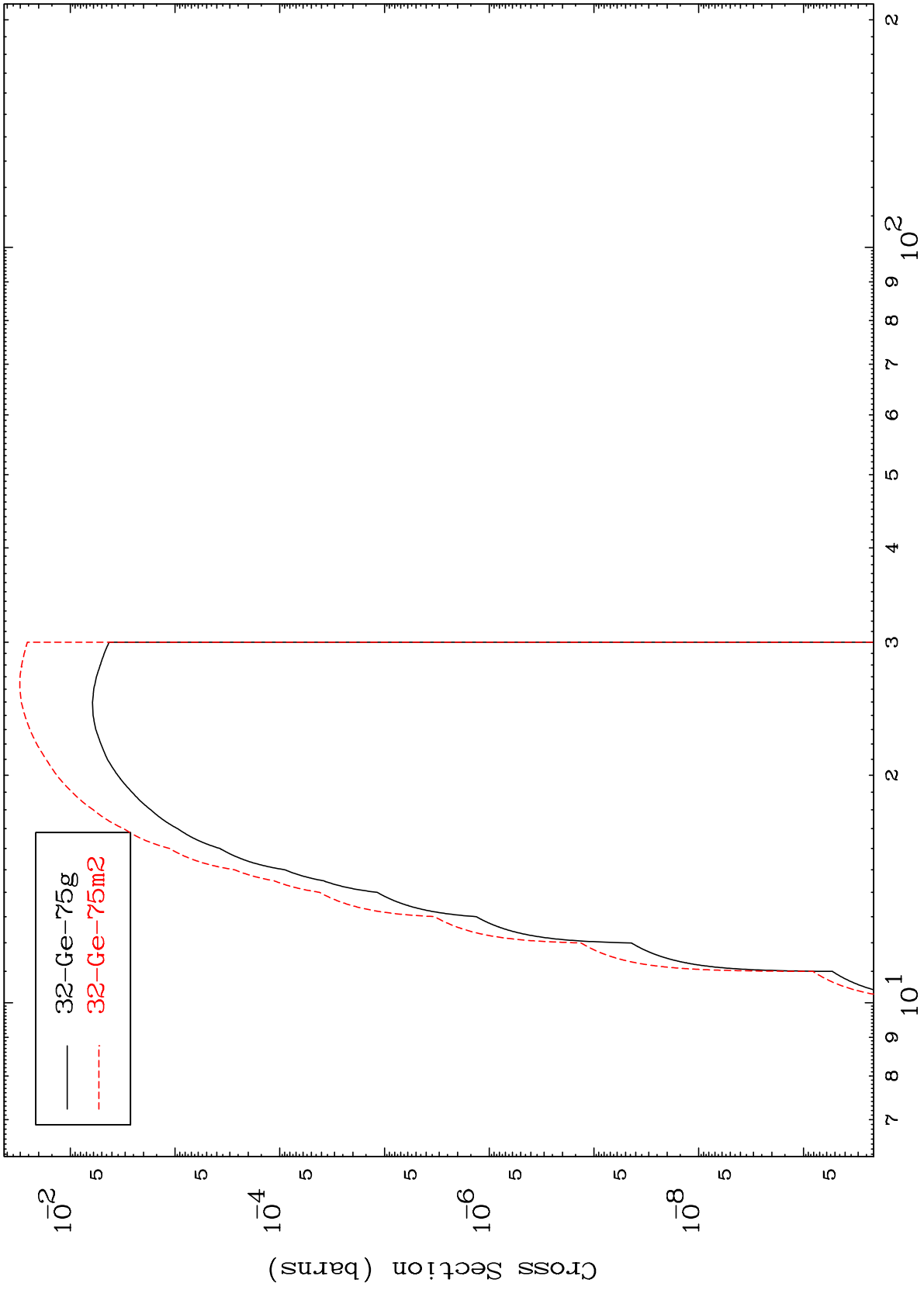
121

<sup>34</sup>Se-79

MAT 3440

34-<sup>Se-79</sup>

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



122

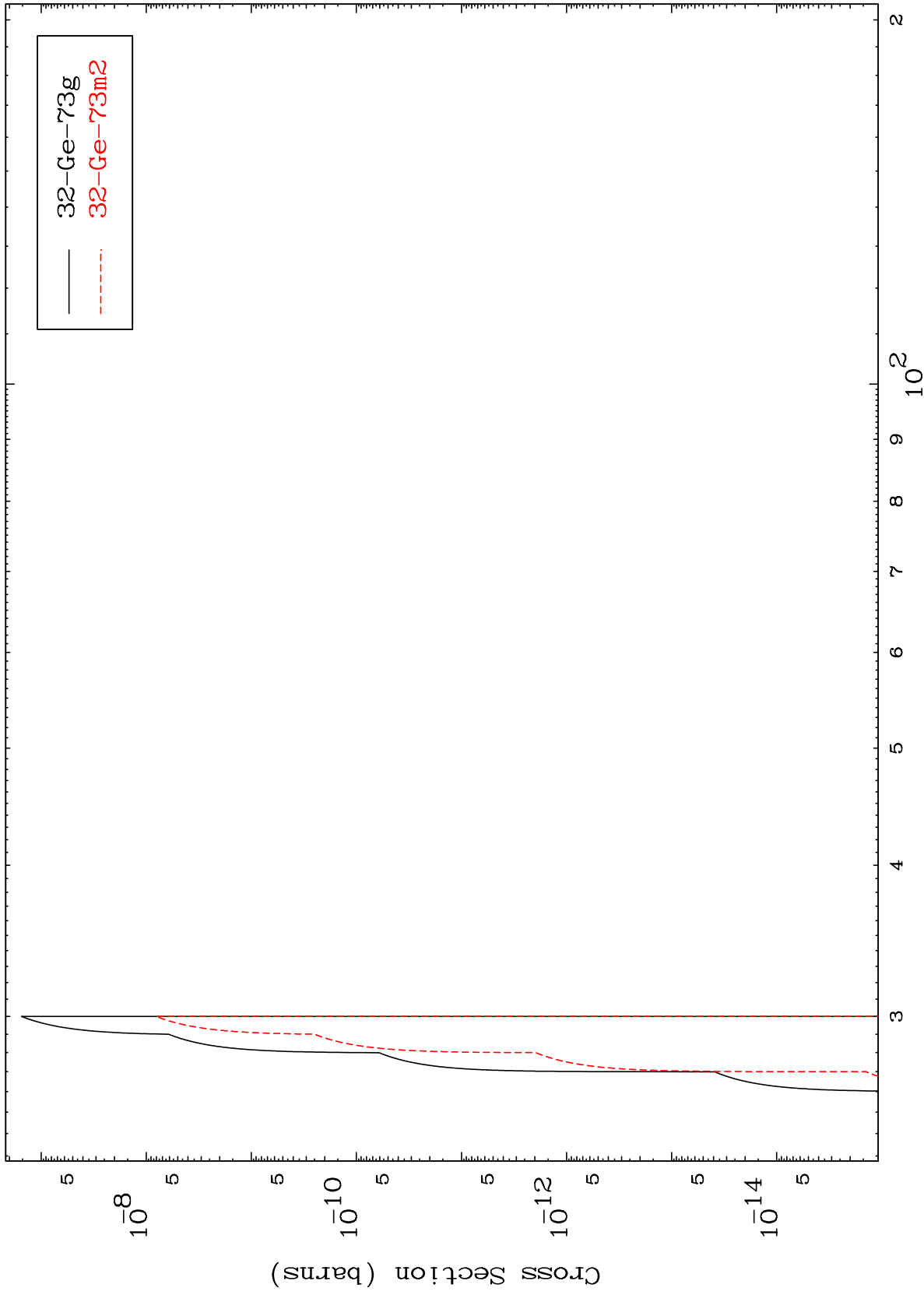
34-<sup>Se-79</sup>

MAT 3440

(n,3n)  $\alpha$

<sup>34</sup>Se-79

Radionuclide Production Cross Section



123

Incident Energy (MeV)

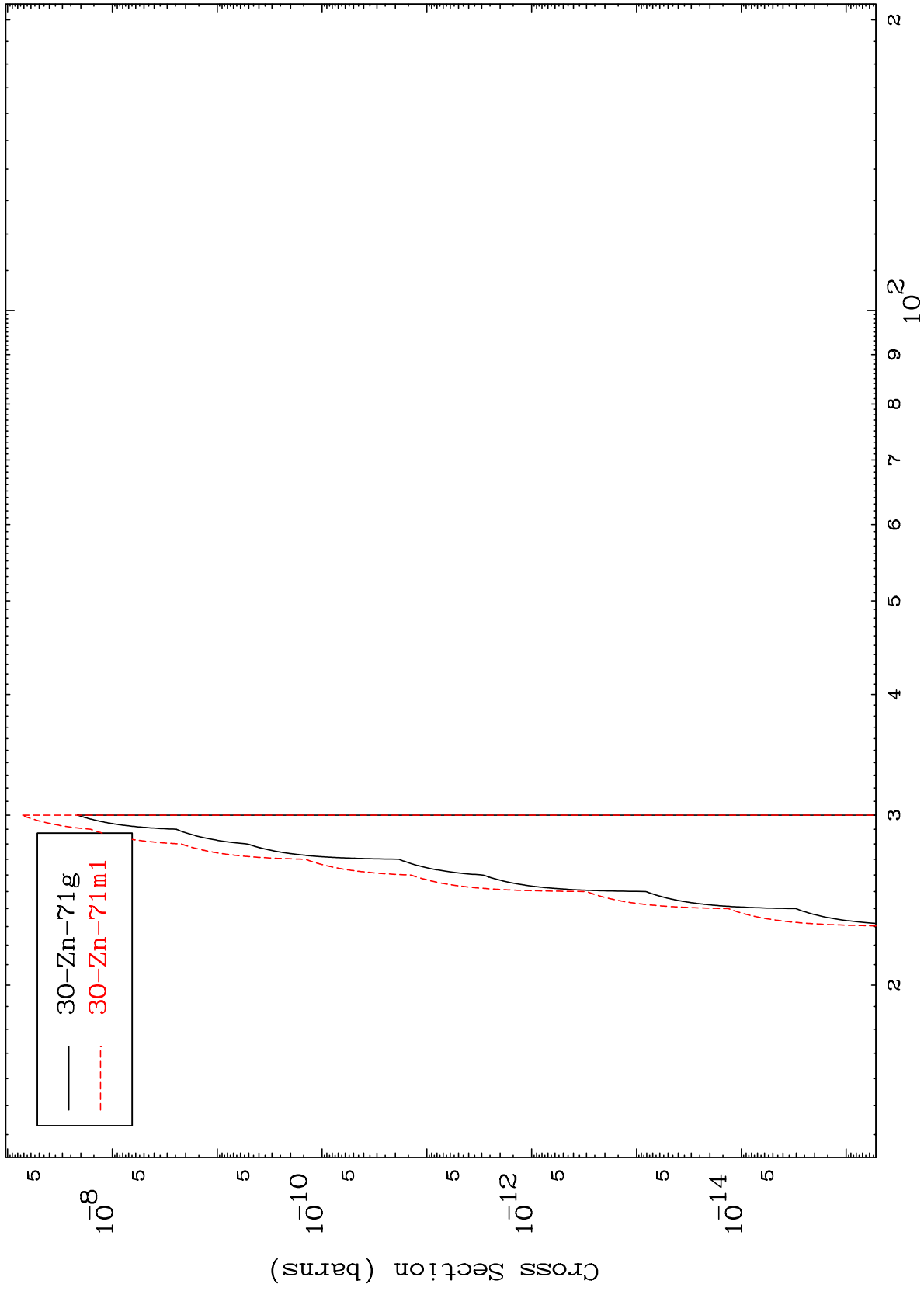
<sup>34</sup>Se-79

MAT 3440

(n,n') 2 $\alpha$

<sup>34</sup>Se-79

Radionuclide Production Cross Section



124

Incident Energy (MeV)

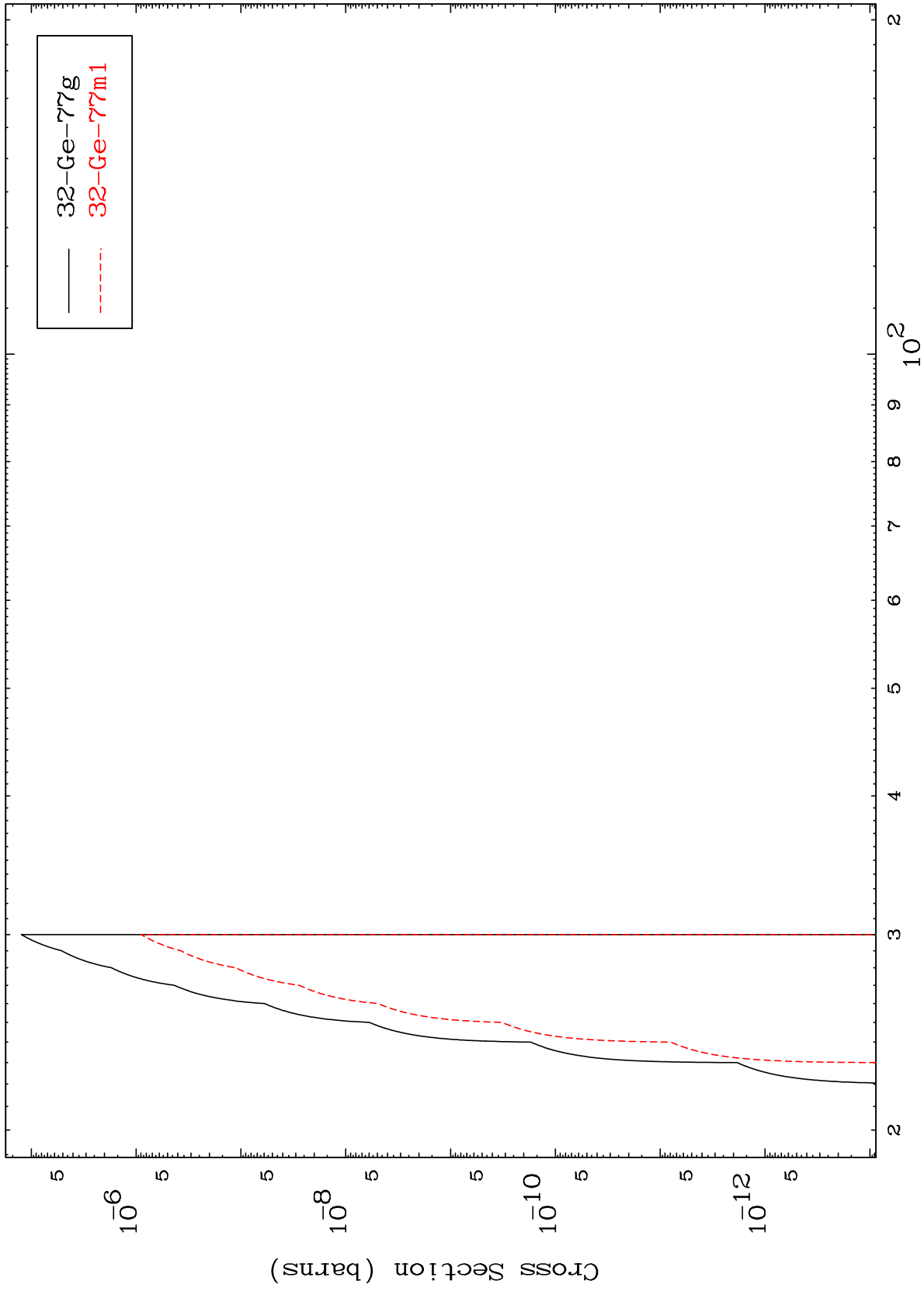
<sup>34</sup>Se-79

MAT 3440

(n,2n) p

34-<sup>Se</sup>-79

Radionuclide Production Cross Section



125

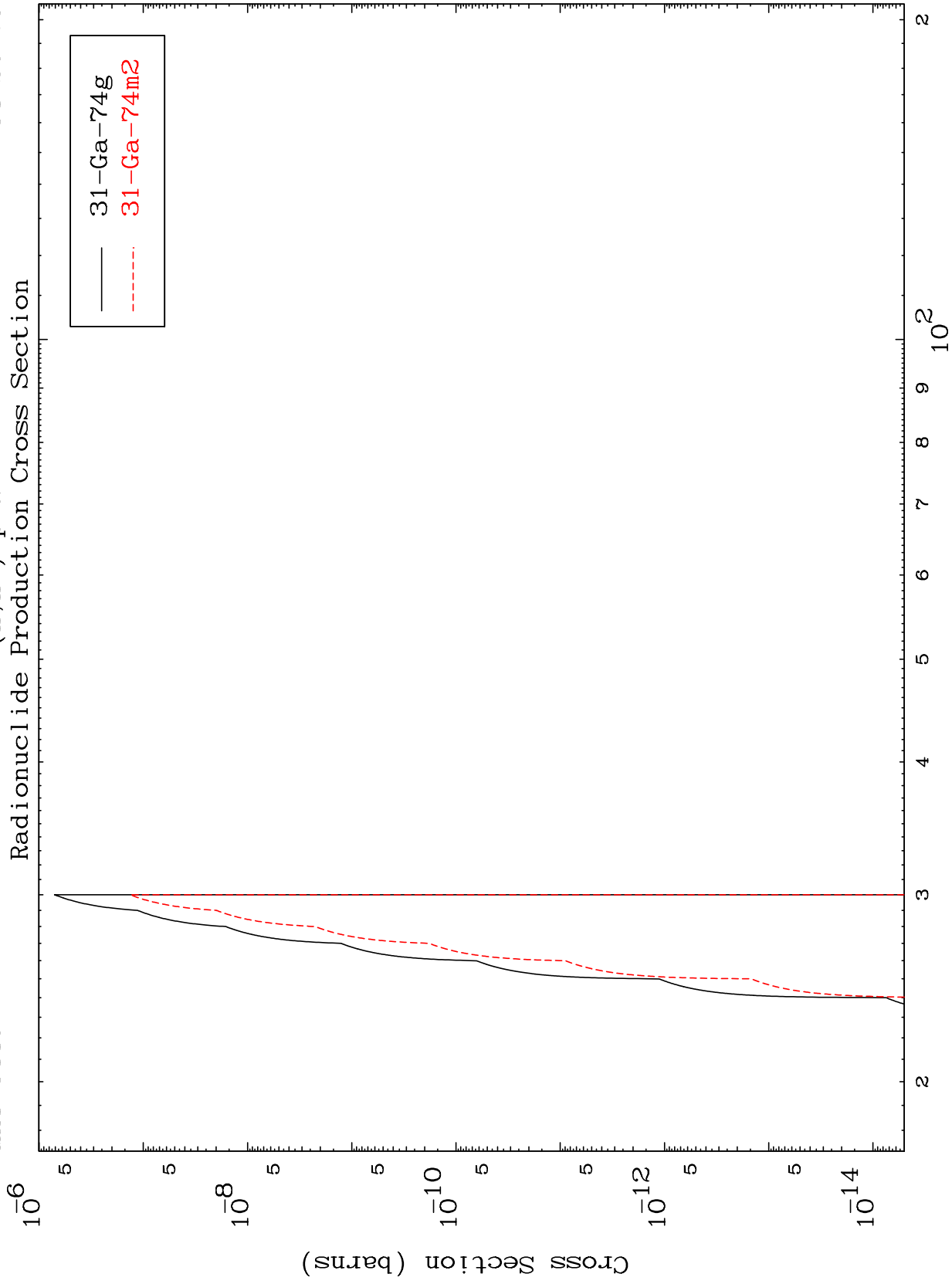
Incident Energy (MeV)

34-<sup>Se</sup>-79

MAT 3440

34-Se-79

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



126

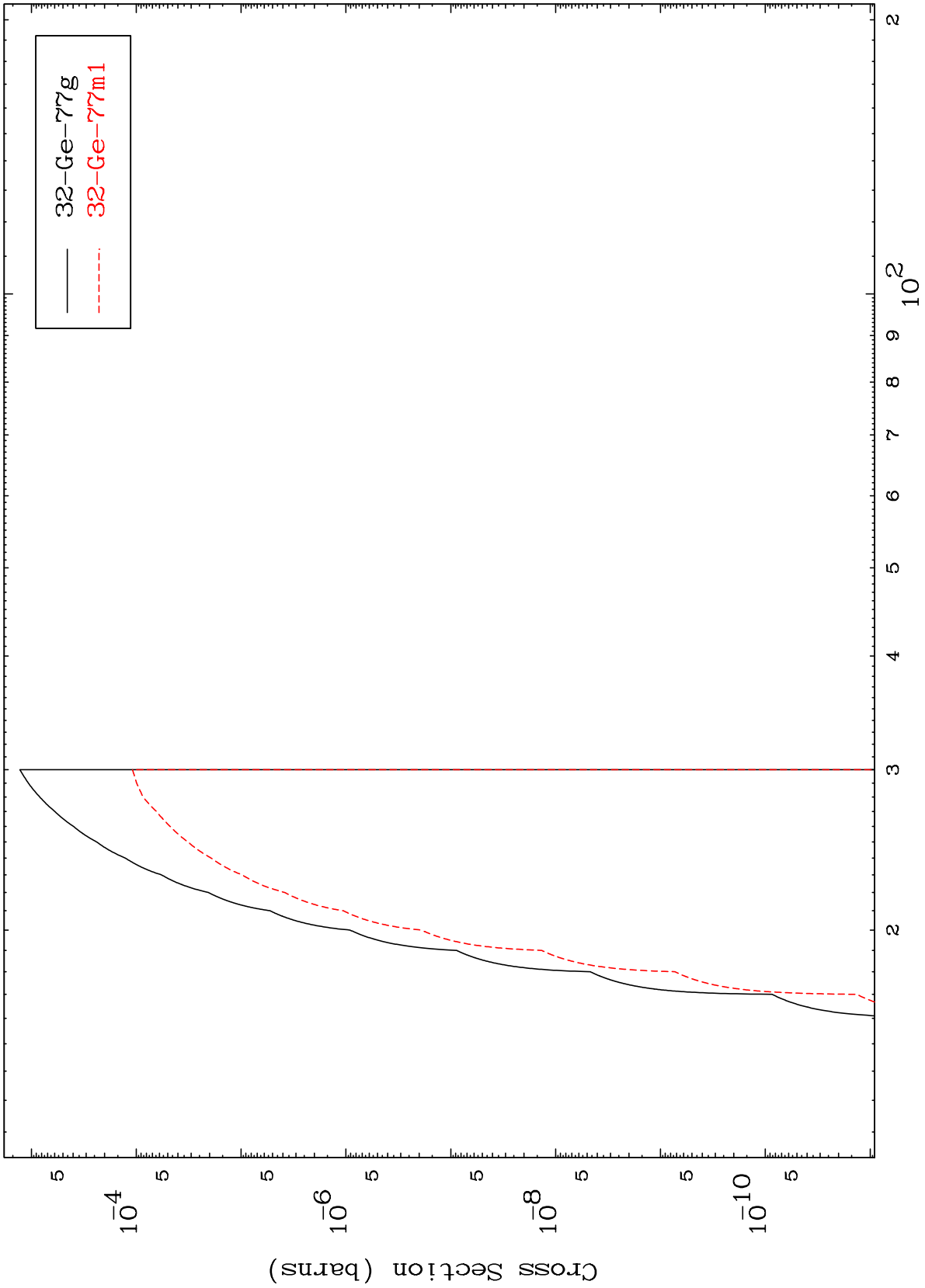
34-Se-79

MAT 3440

(n, He-3)

<sup>34</sup>Se-79

Radionuclide Production Cross Section



127

Incident Energy (MeV)

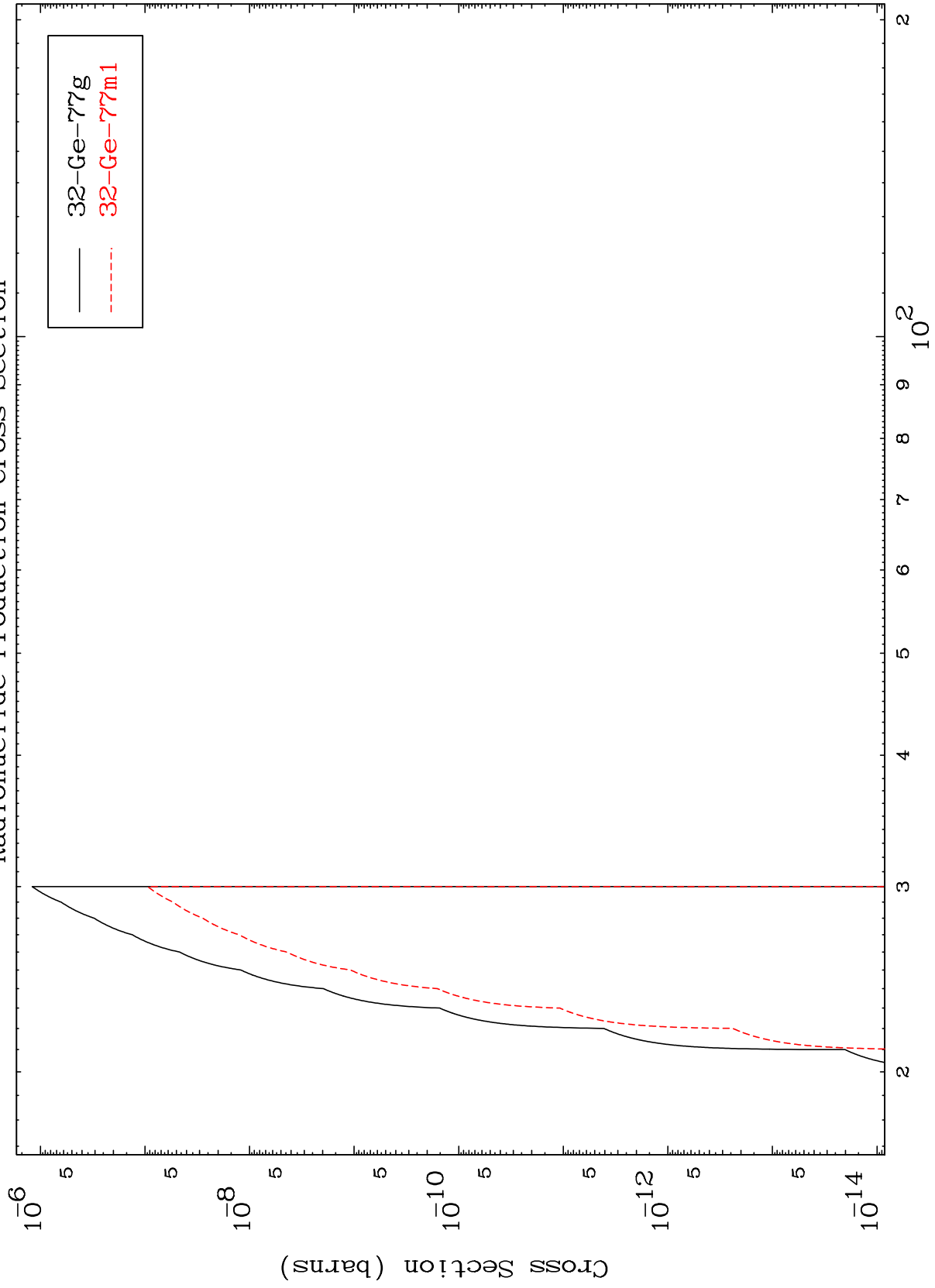
<sup>34</sup>Se-79

MAT 3440

(n,p) d

<sup>34</sup>Se-79

Radionuclide Production Cross Section



128

Incident Energy (MeV)

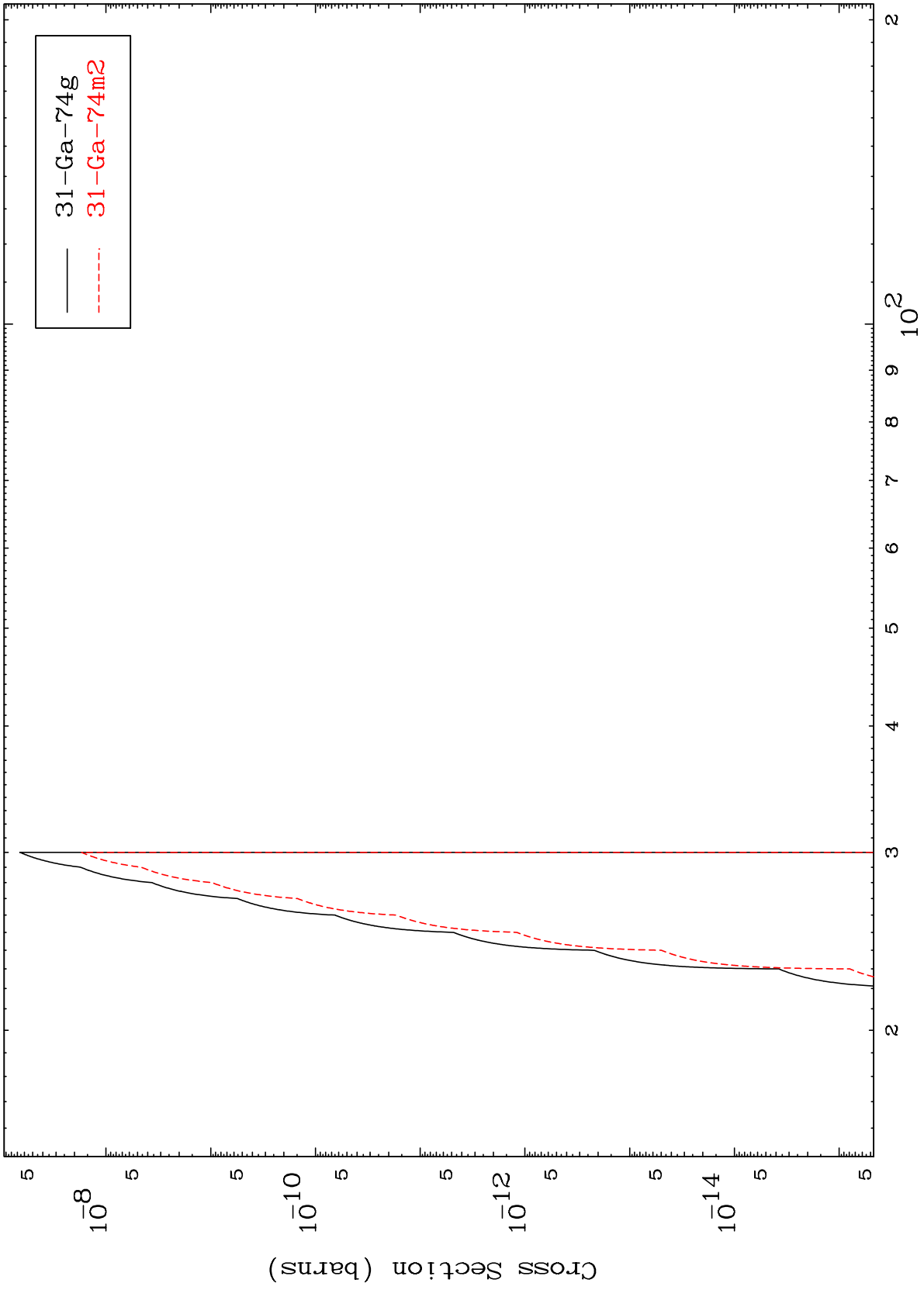
<sup>34</sup>Se-79

MAT 3440

$(n,d) \alpha$

$^{34}\text{Se-79}$

Radionuclide Production Cross Section



129

Incident Energy (MeV)

$^{34}\text{Se-79}$