

Program EVALPLOT  
(Version 2021-1)

by

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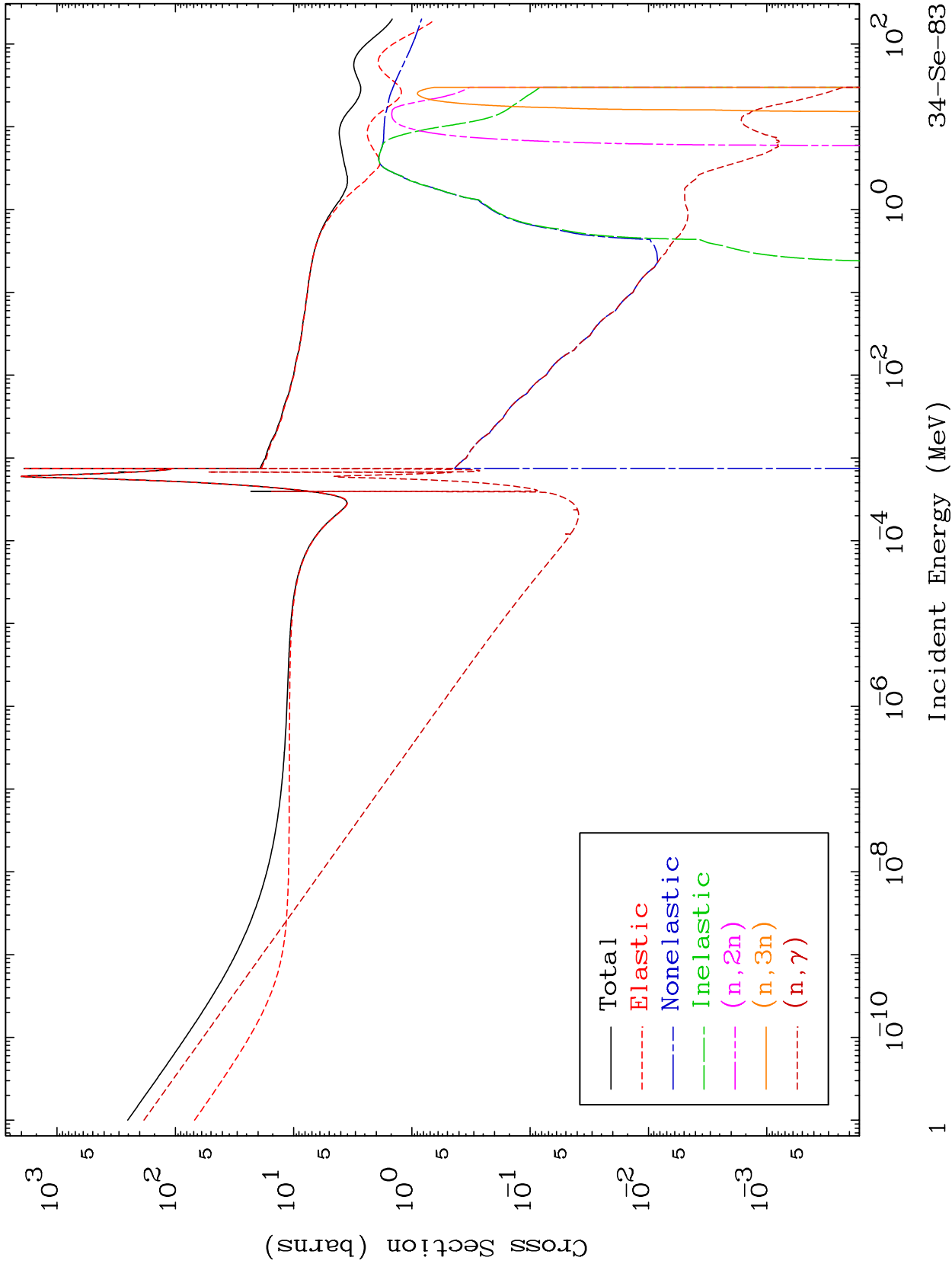
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3452

Neutron Major  
293 Kelvin Cross Sections

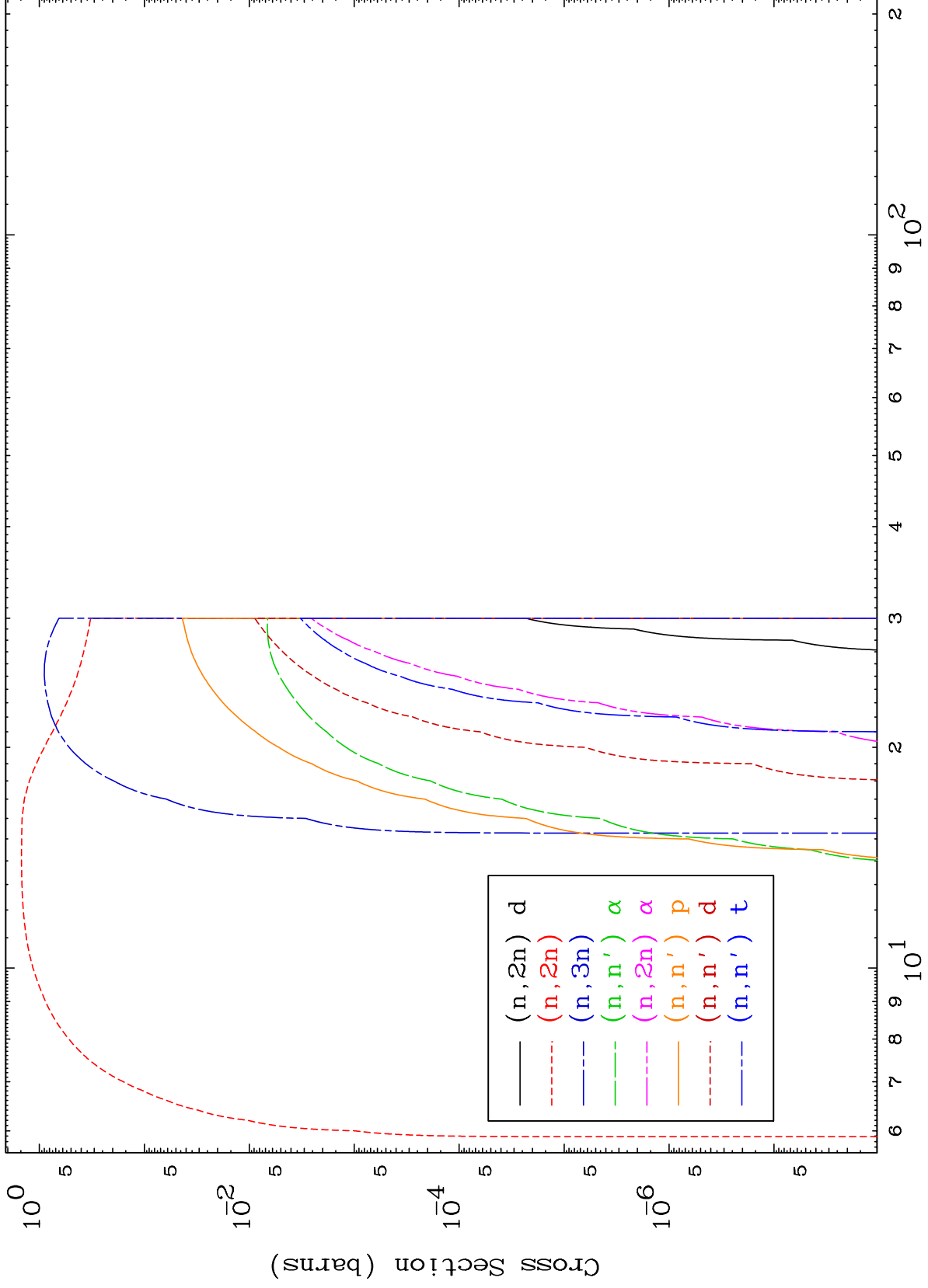
34-Se-83



MAT 3452

Neutron Absorption  
293 Kelvin Cross Sections

<sup>34</sup>Se-83



2

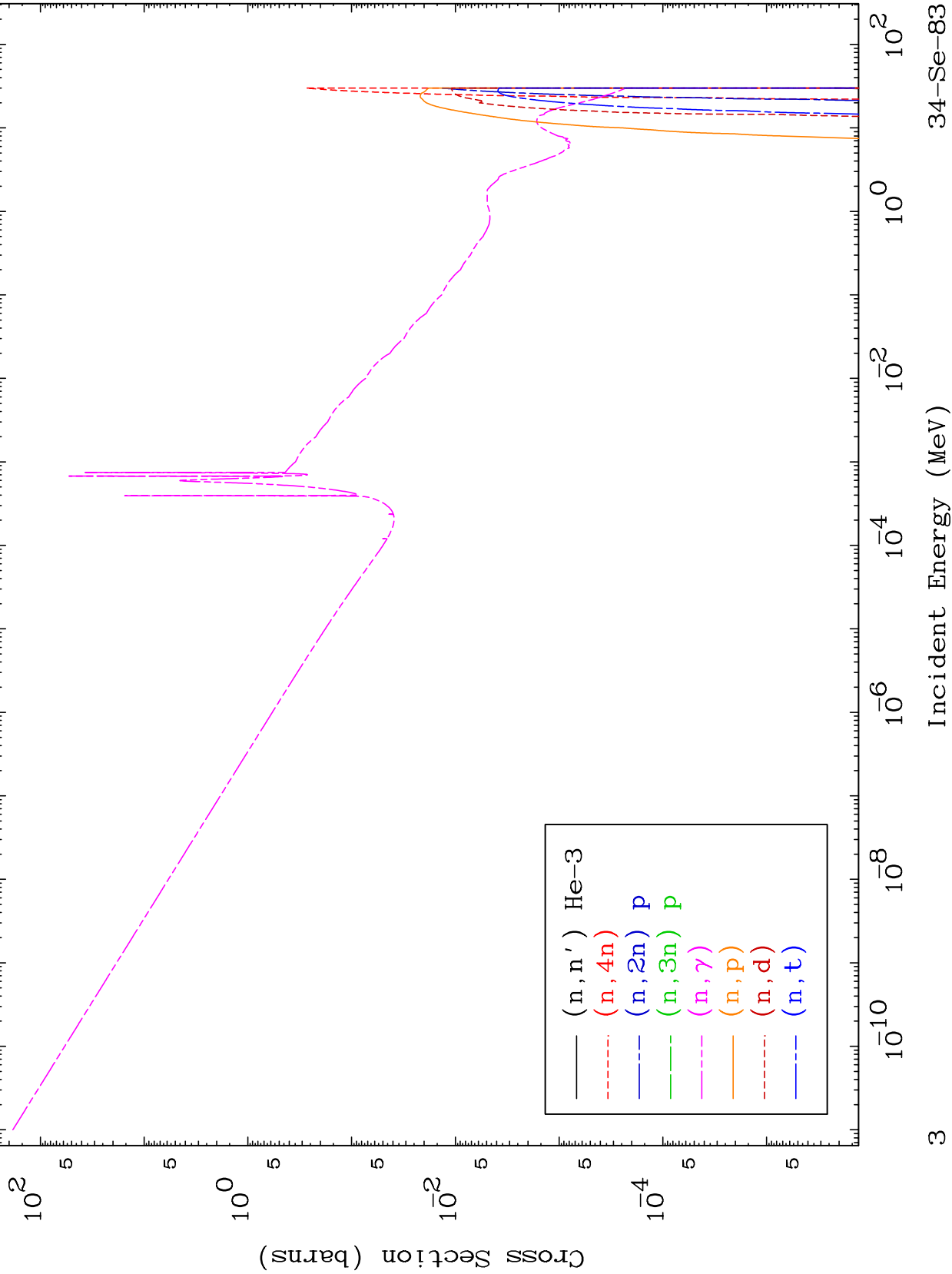
Incident Energy (MeV)

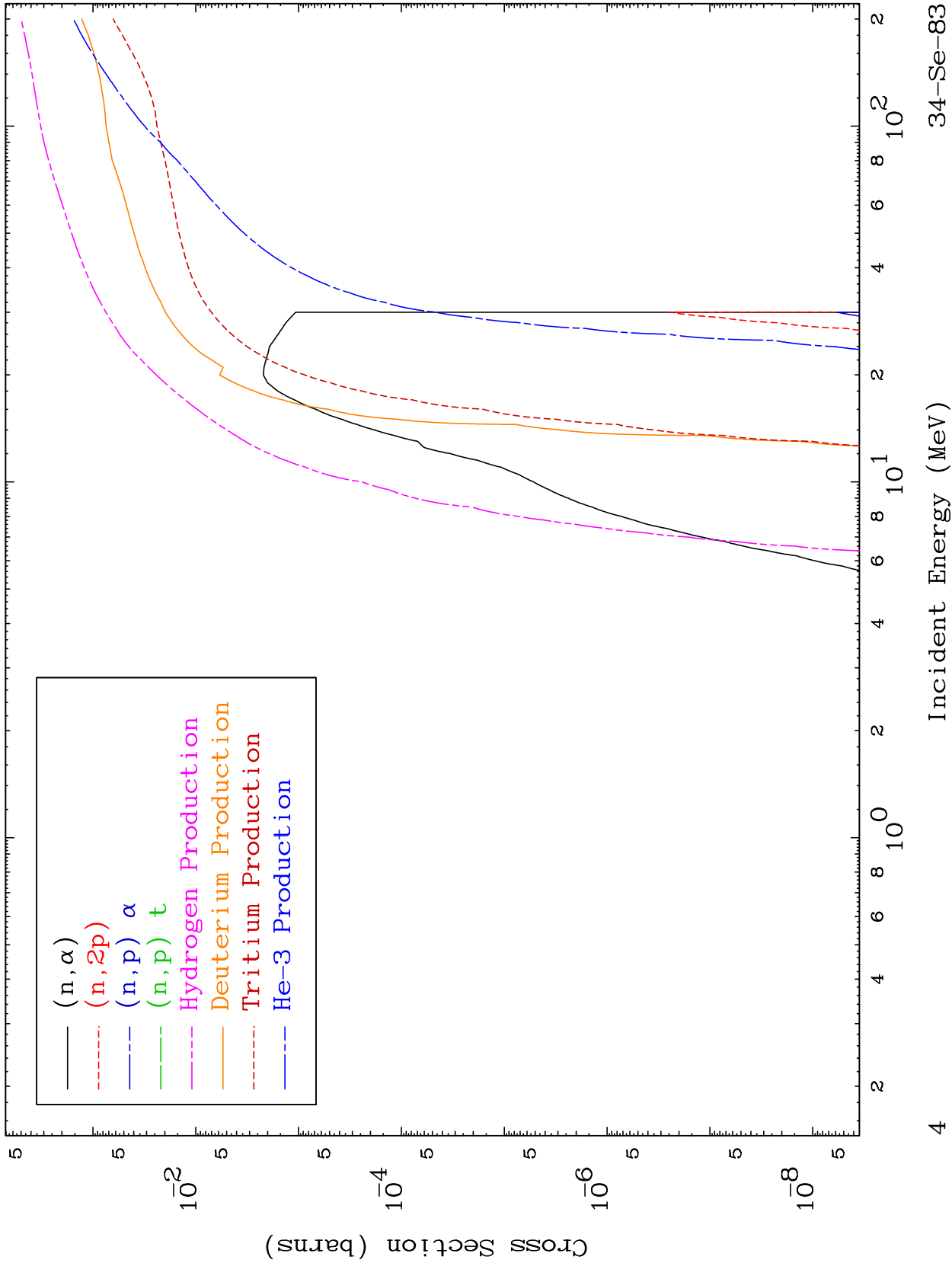
<sup>34</sup>Se-83

MAT 3452

Neutron Absorption  
293 Kelvin Cross Sections

34-Se-83

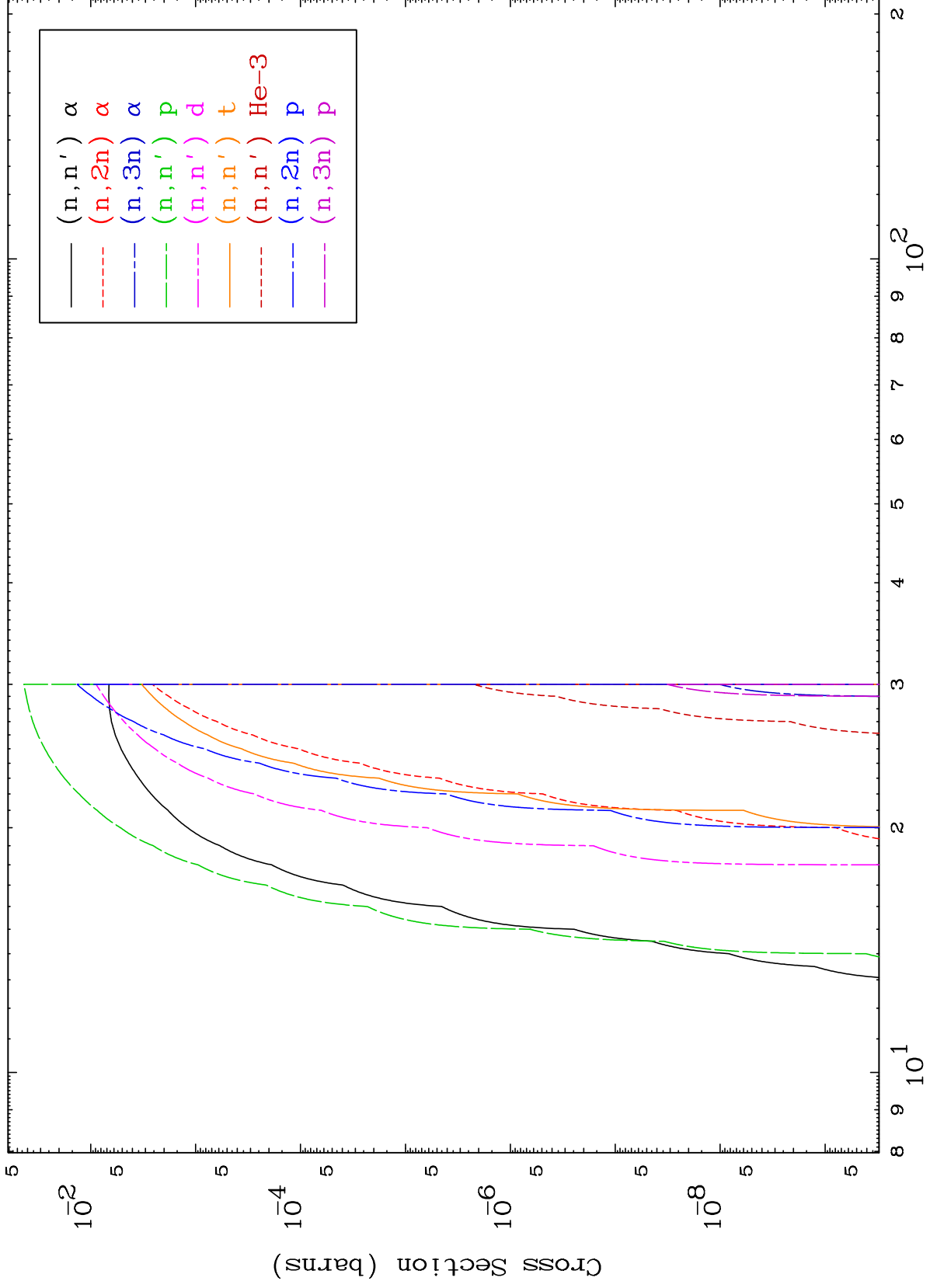




MAT 3452

Charged Particle  
293 Kelvin Cross Sections

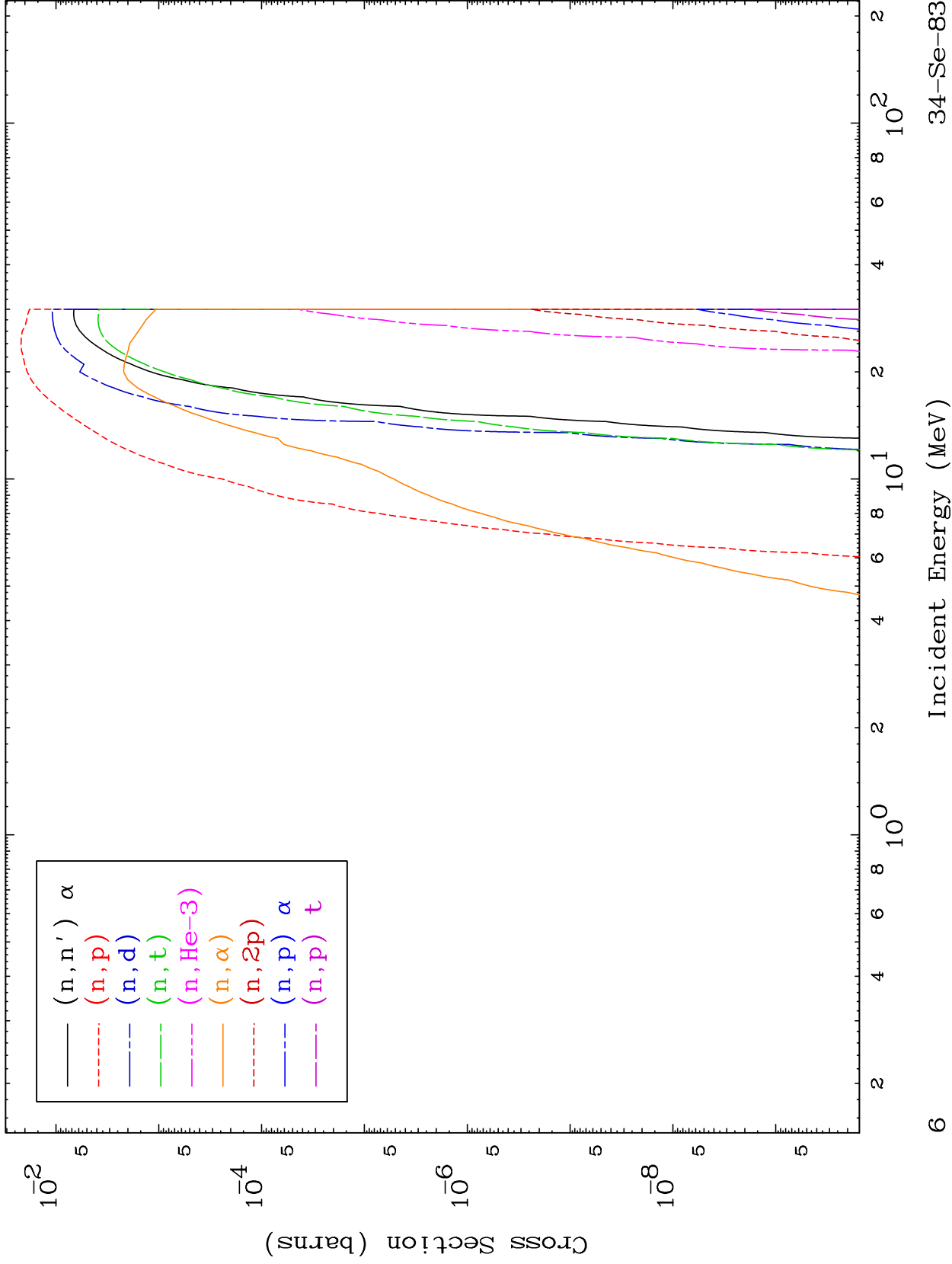
34-Se-83



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Incident Energy (MeV)

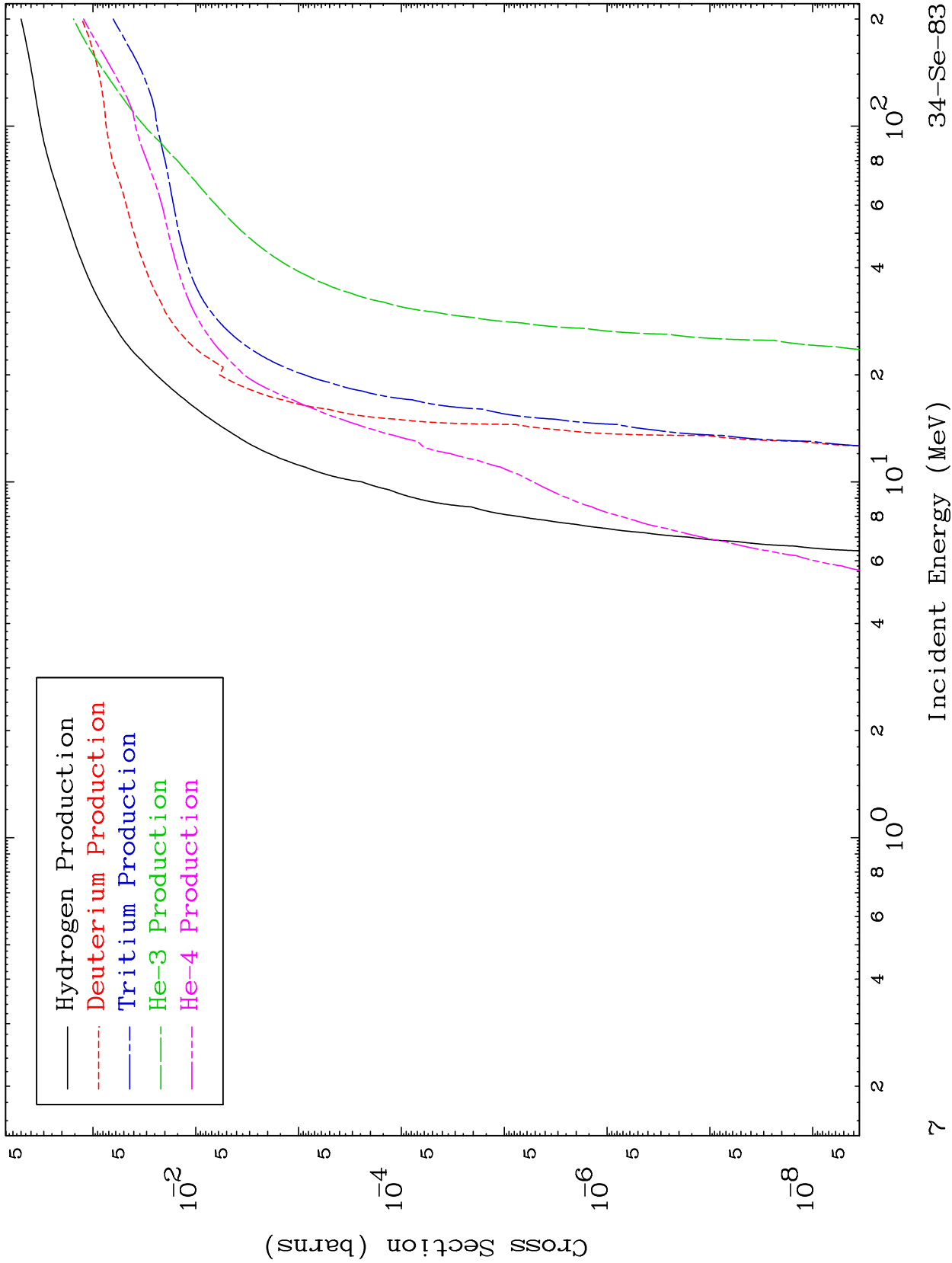
34-Se-83



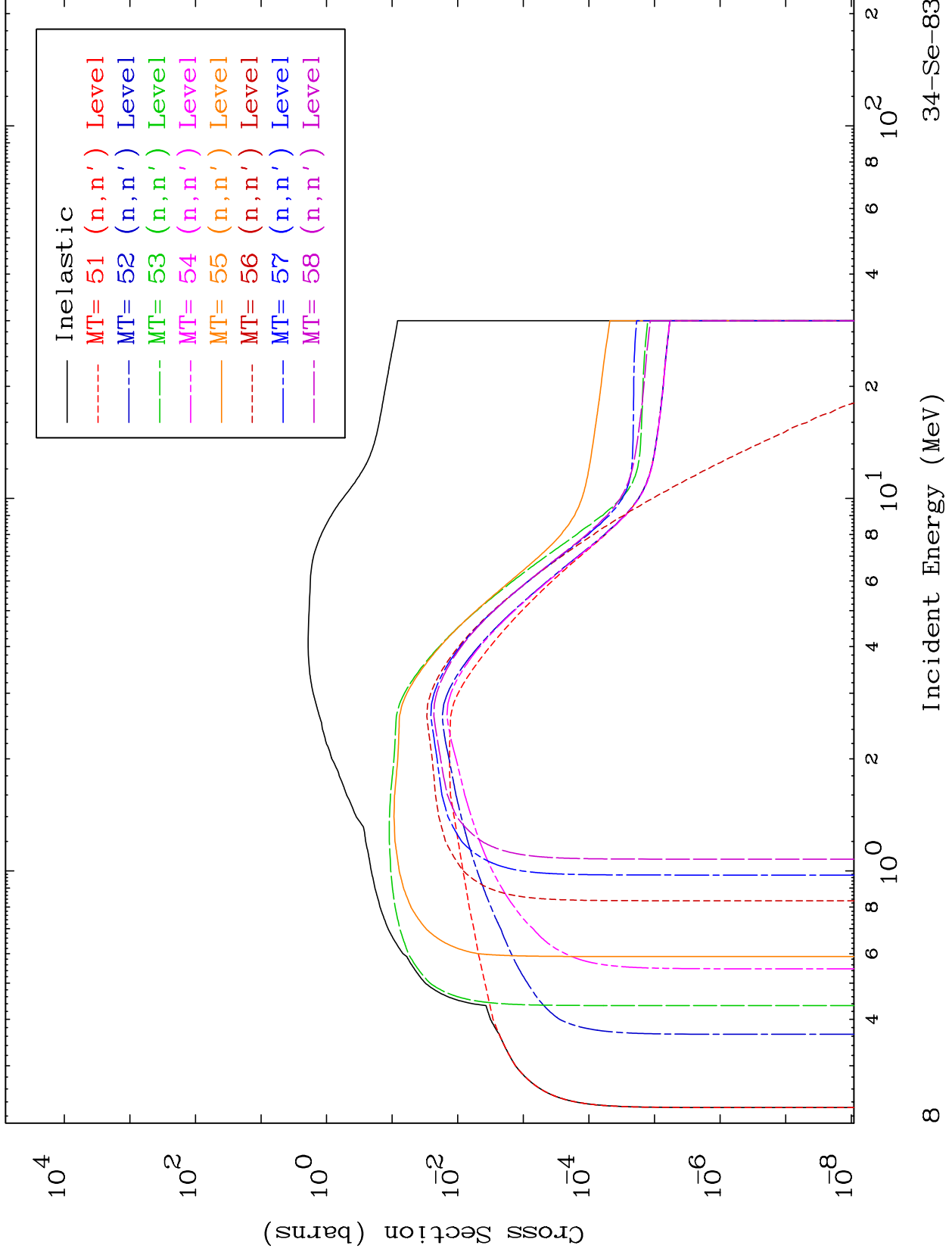
MAT 3452

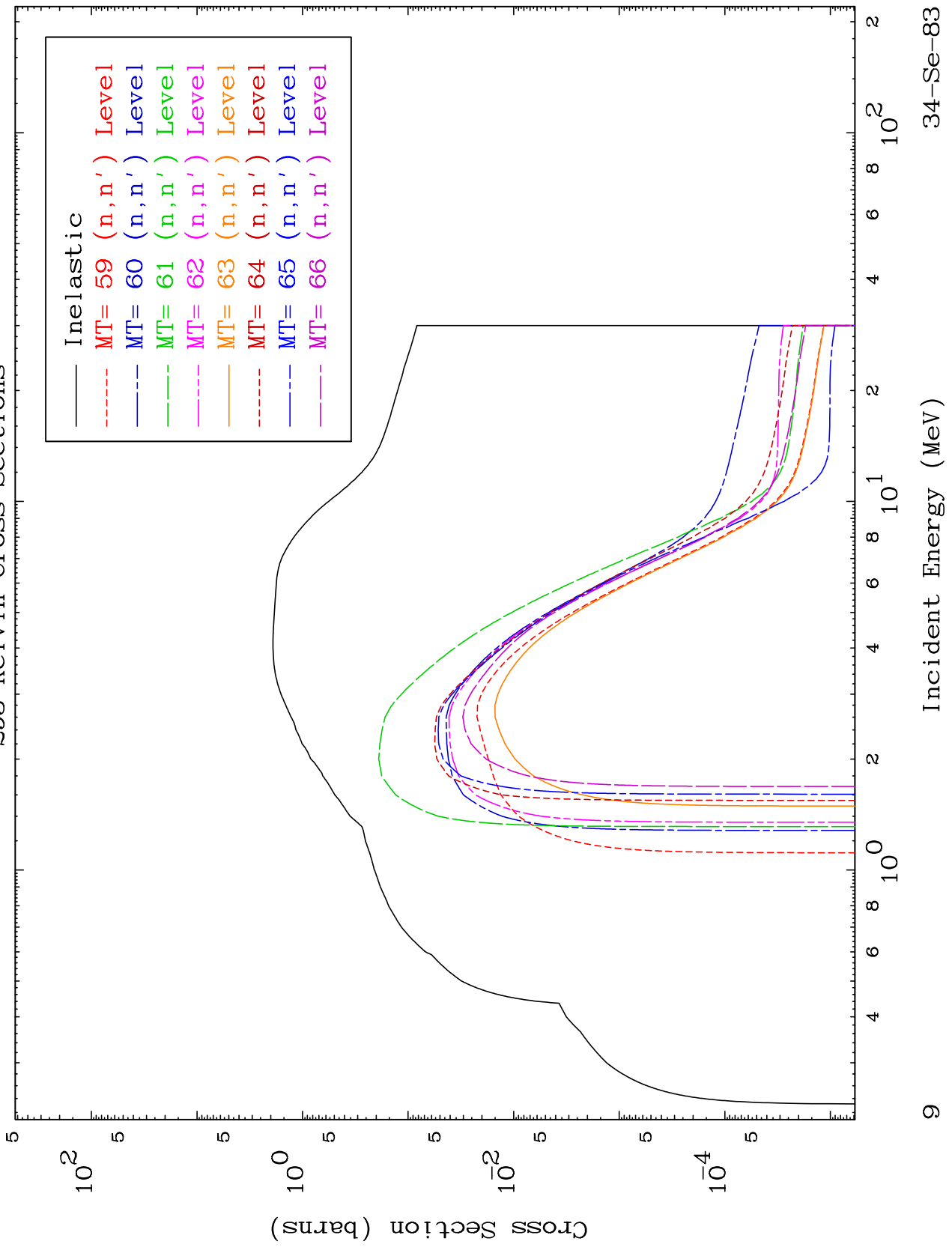
Particle Production  
293 Kelvin Cross Sections

34-Se-83





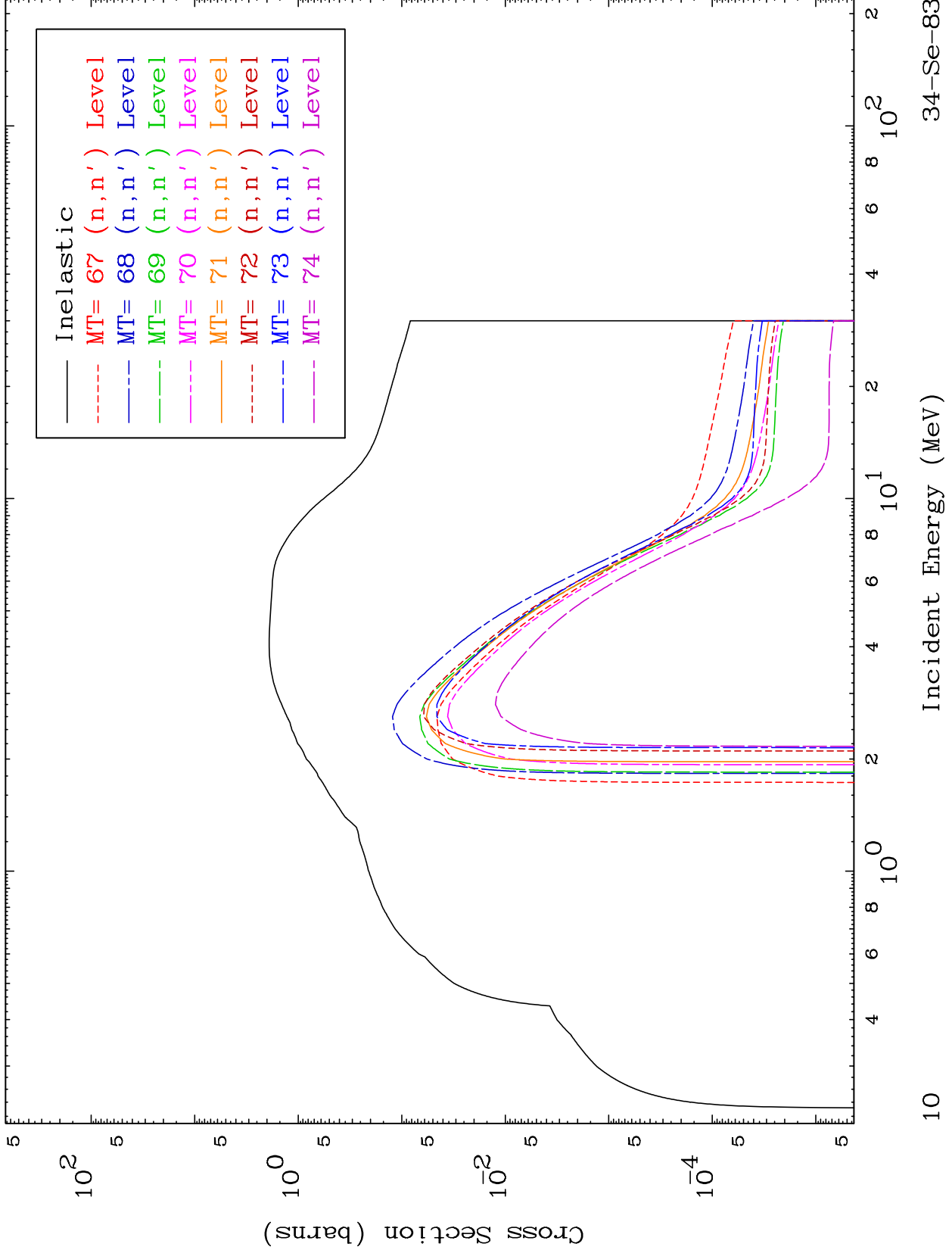




MAT 3452

(n,n') Levels  
293 Kelvin Cross Sections

34-Se-83

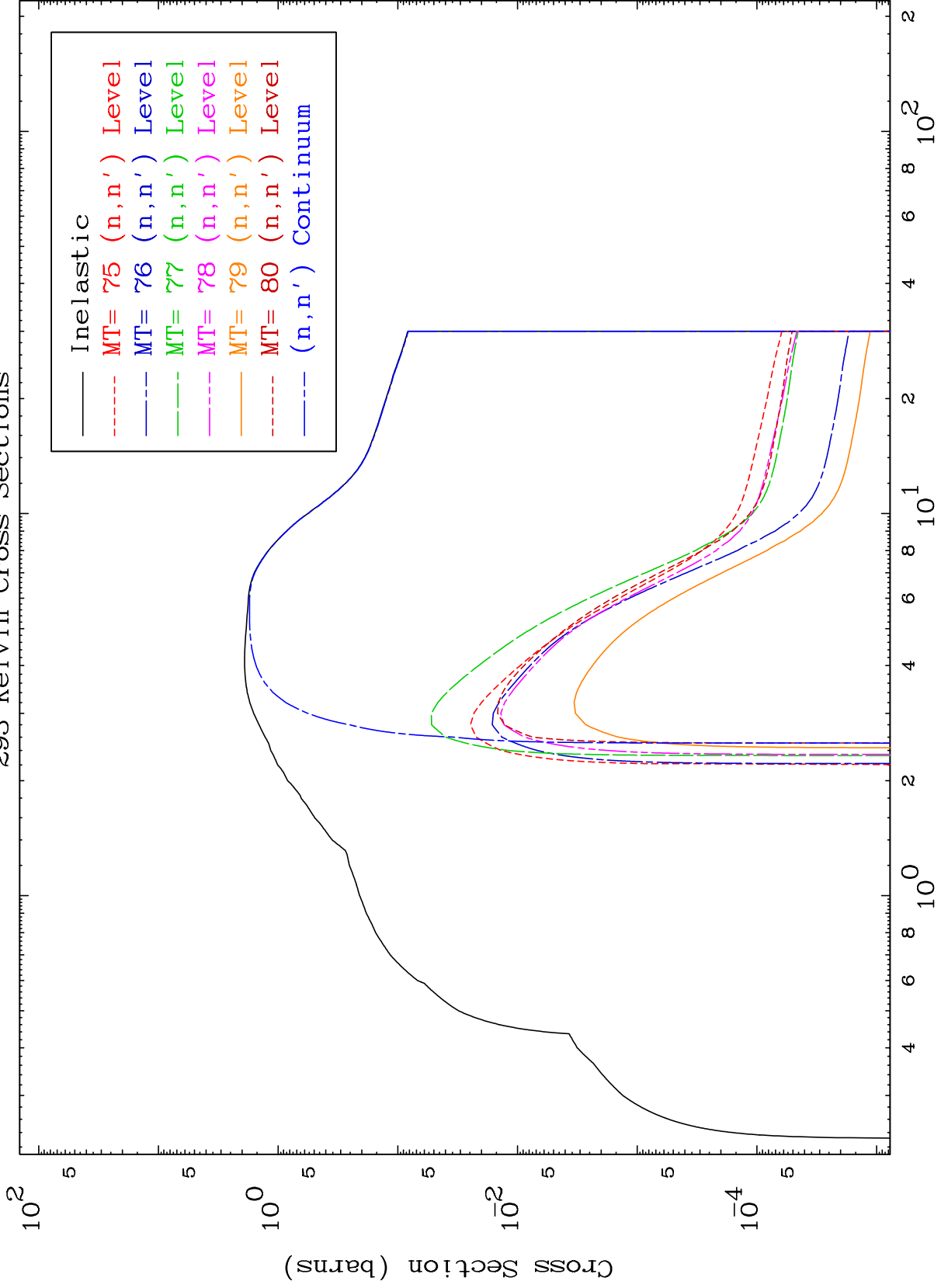


34-Se-83

Incident Energy (MeV)

10

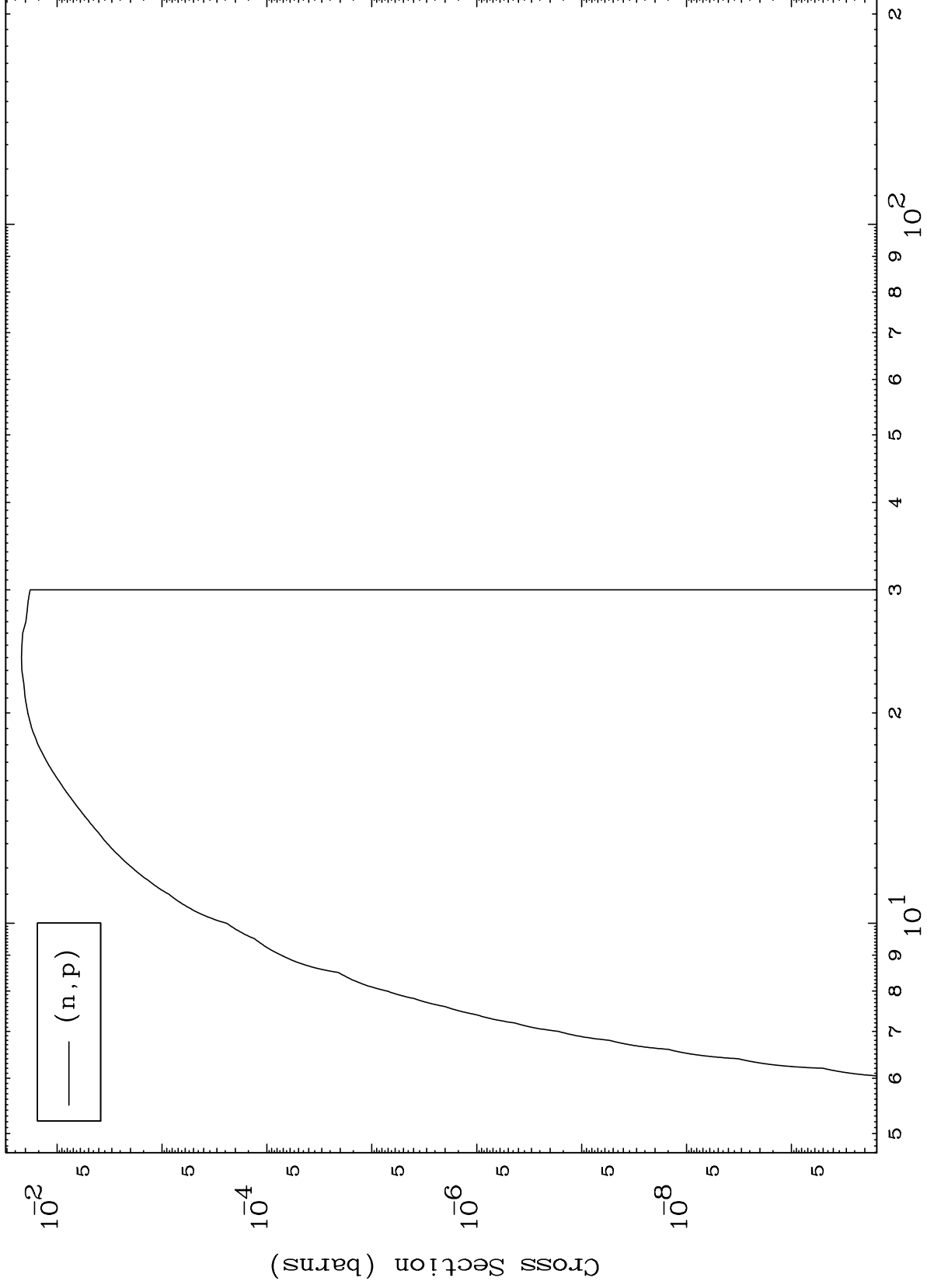
293 Kelvin Cross Sections



MAT 3452

(n,p) Levels  
293 Kelvin Cross Sections

34-Se-83



12

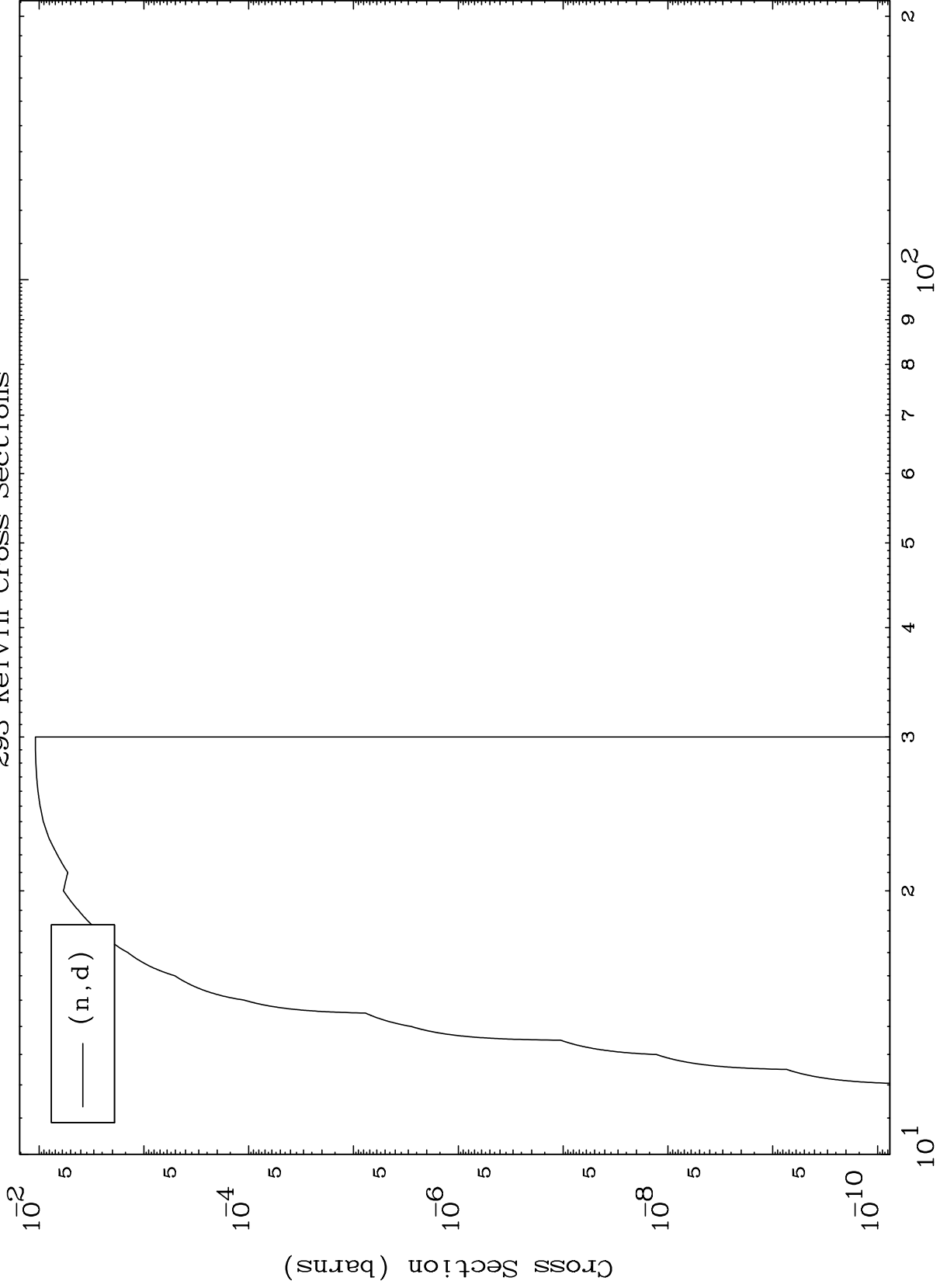
Incident Energy (MeV)

34-Se-83

MAT 3452

(n,d) Levels  
293 Kelvin Cross Sections

34-Se-83



Incident Energy (MeV)

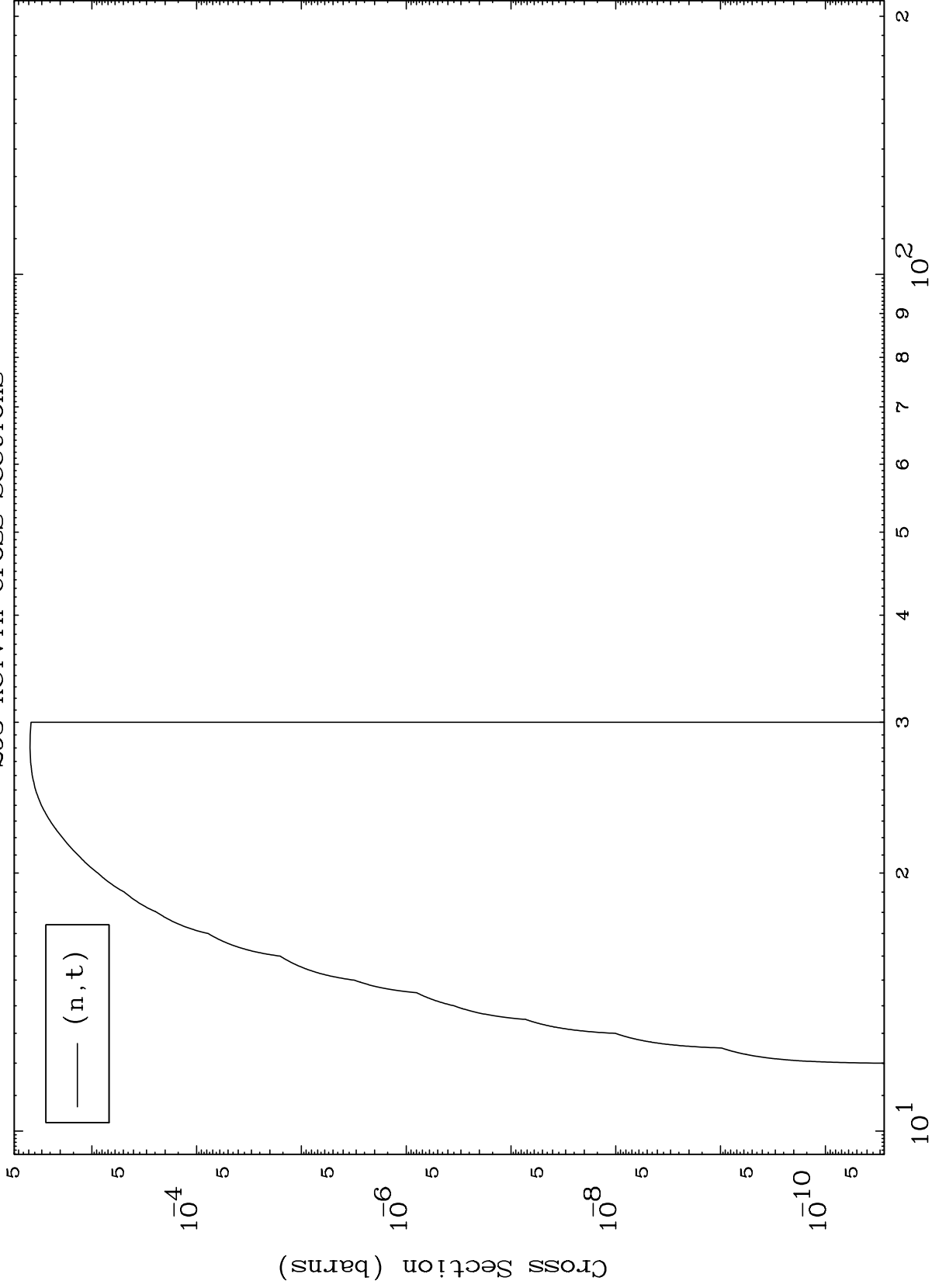
34-Se-83

13

MAT 3452

(n,t) Levels  
293 Kelvin Cross Sections

<sup>34</sup>Se-83



Incident Energy (MeV)

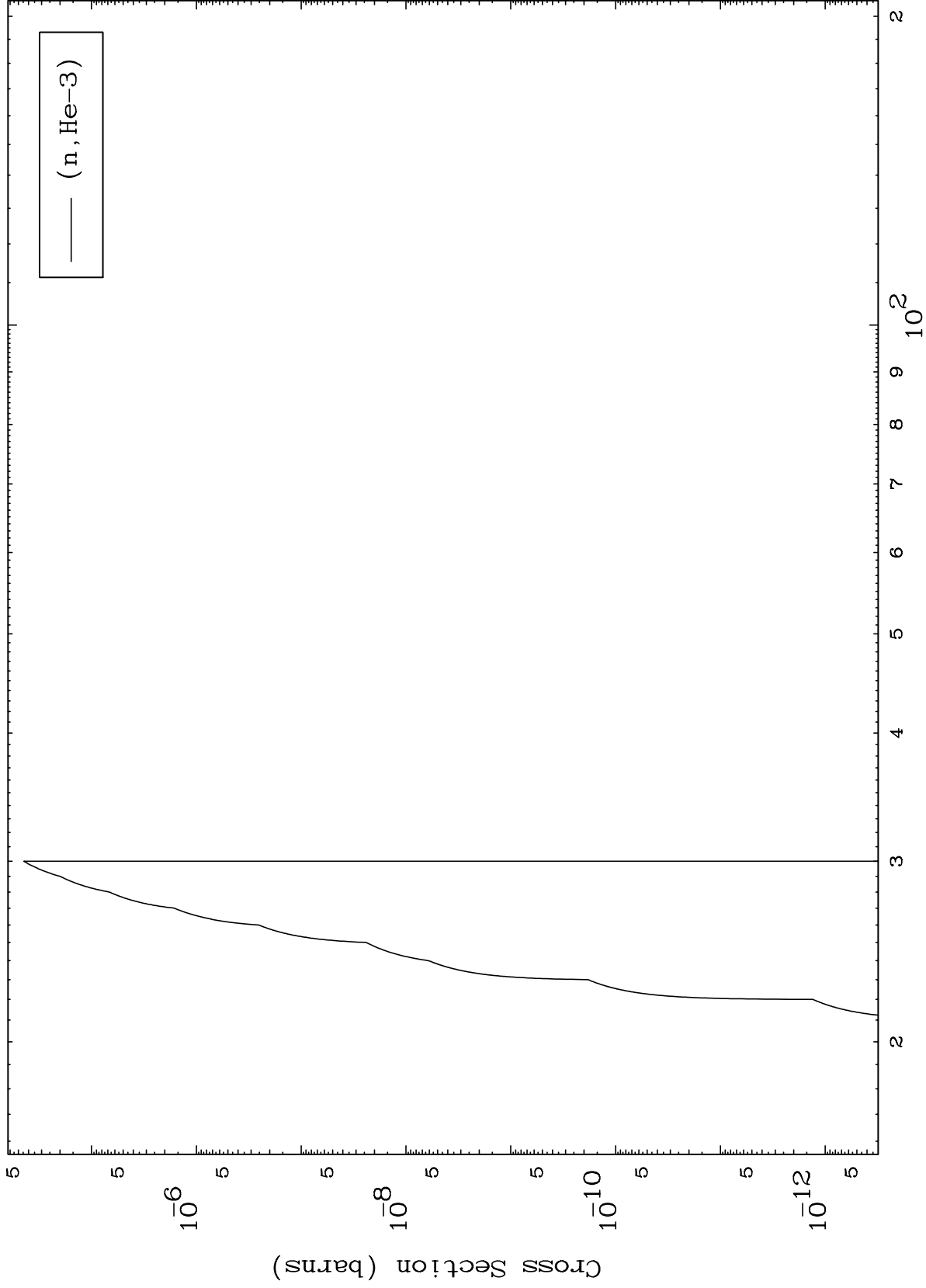
<sup>34</sup>Se-83

14

MAT 3452

(n,He3) Levels  
293 Kelvin Cross Sections

34-Se-83



15

Incident Energy (MeV)

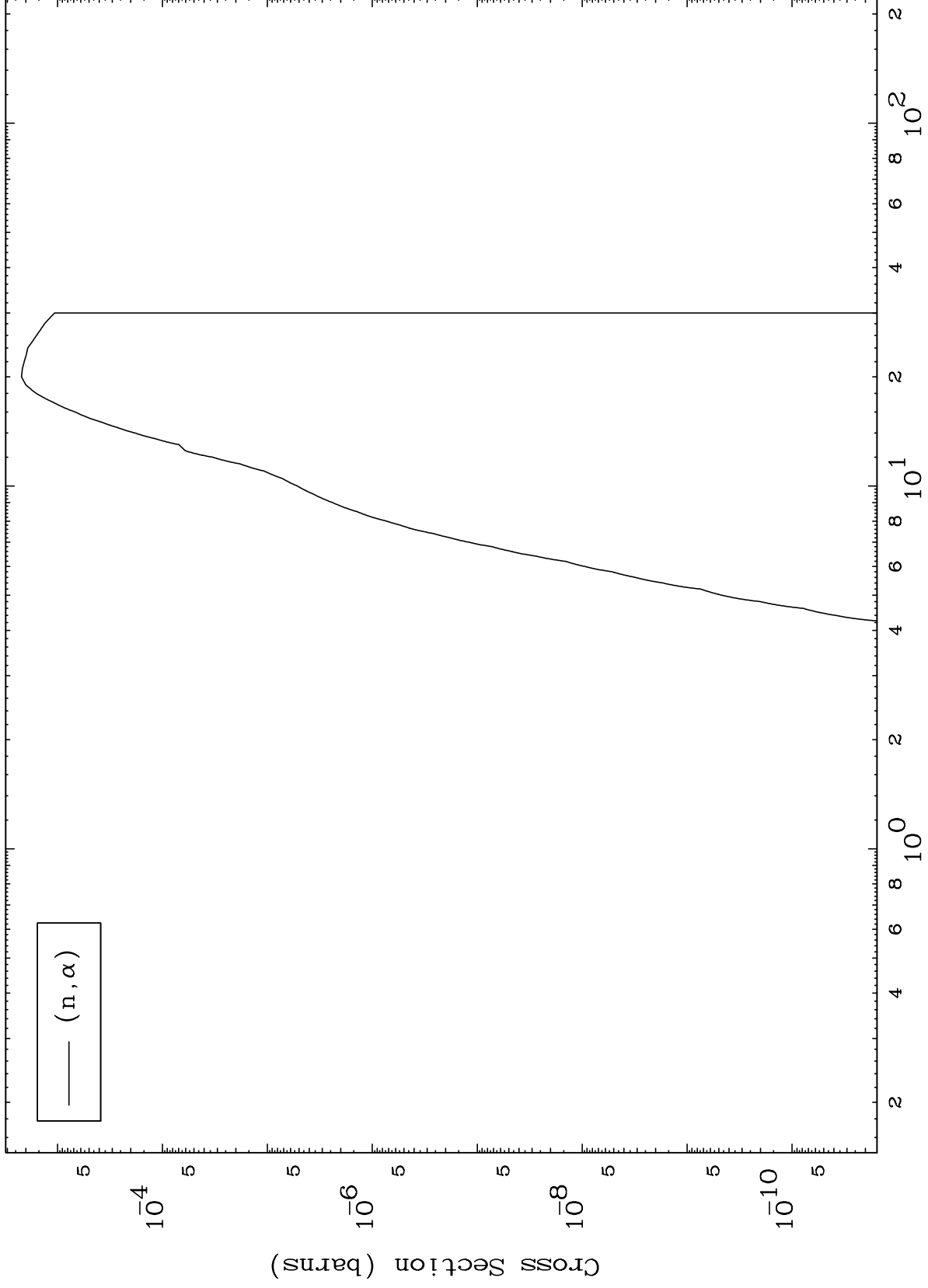
34-Se-83



MAT 3452

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

34-Se-83



16

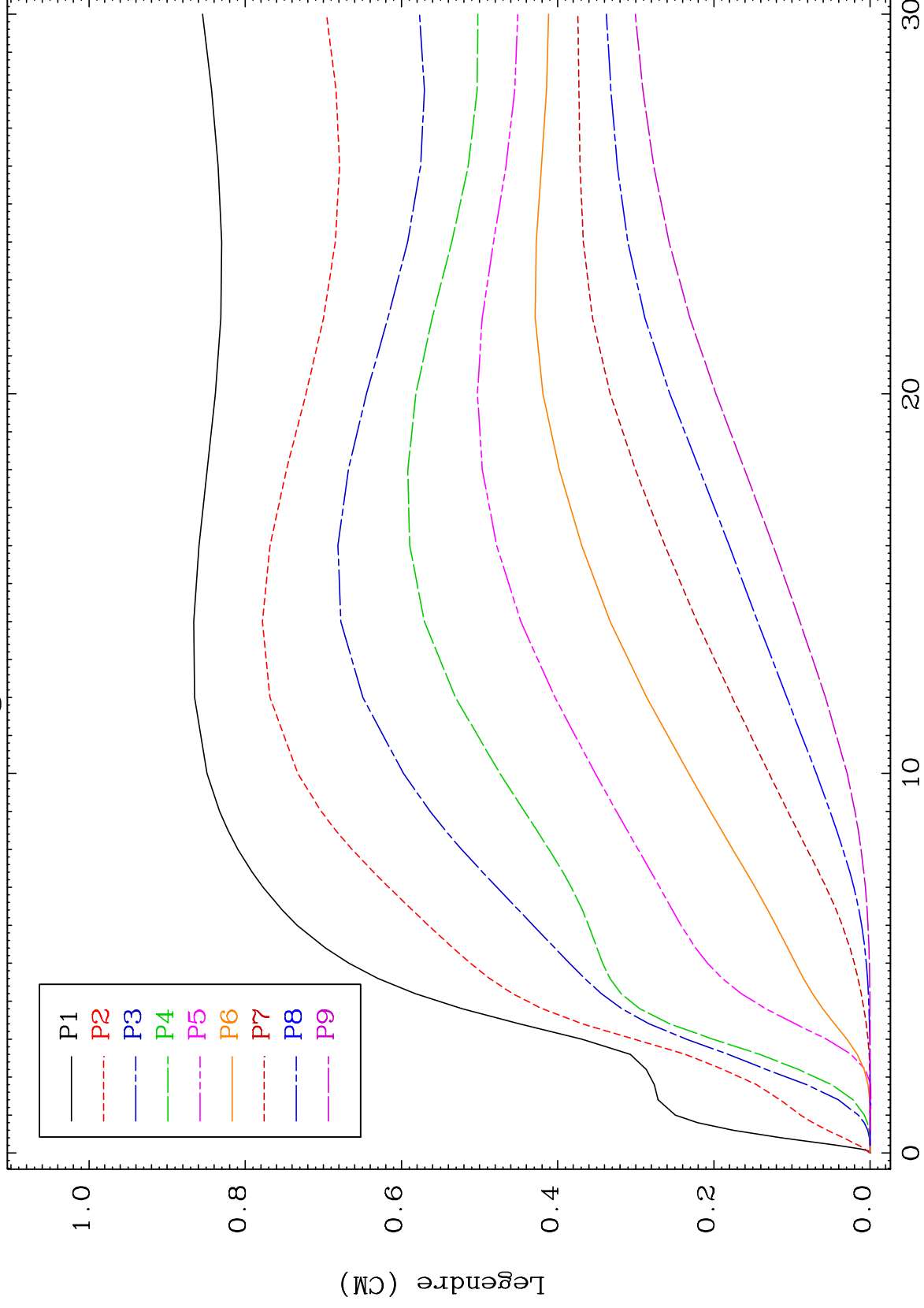
Incident Energy (MeV)

34-Se-83

MAT 3452

Elastic Legendre Coefficients

<sup>34</sup>Se-83



17

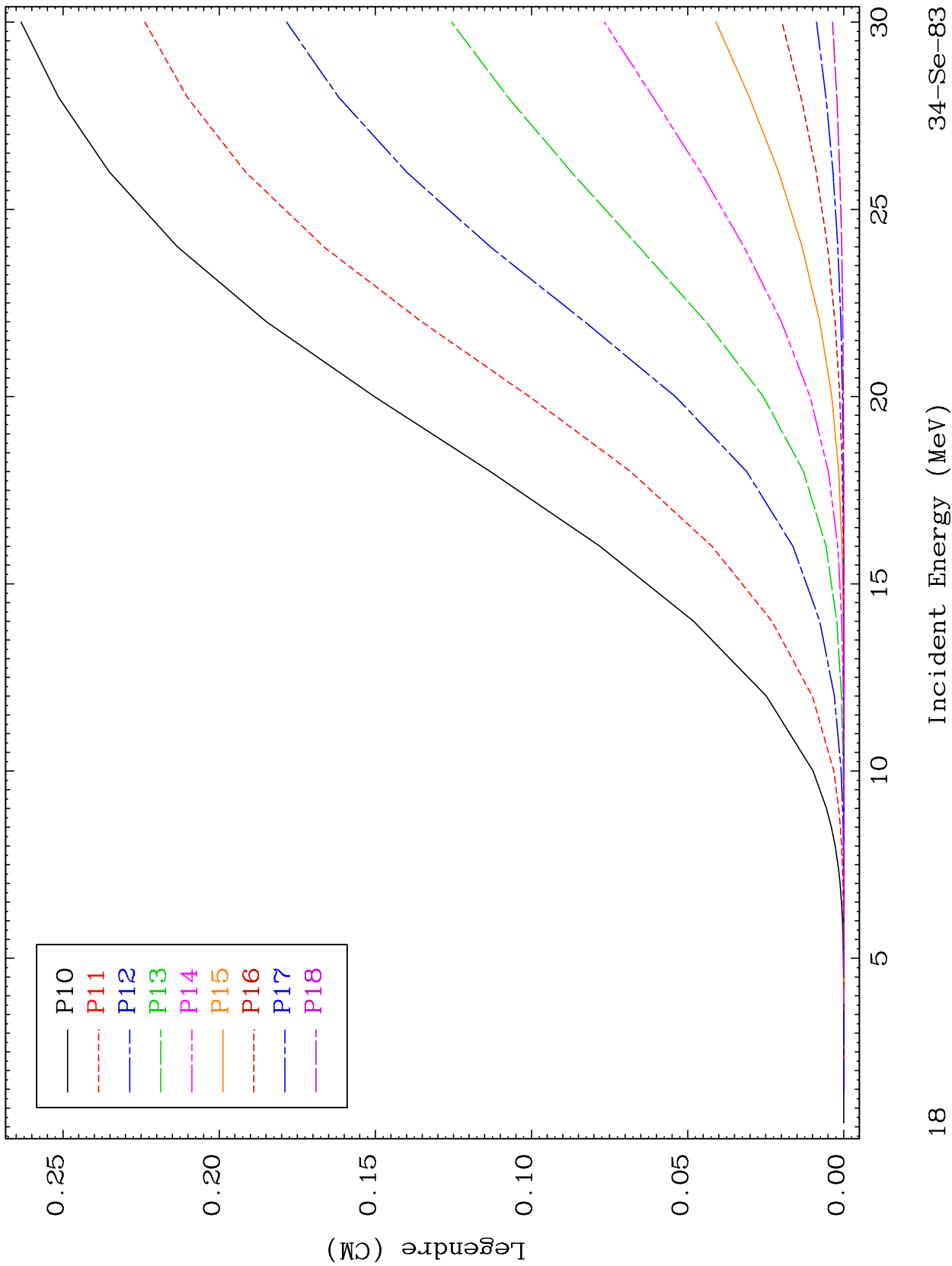
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

Elastic Legendre Coefficients

<sup>34</sup>Se-83



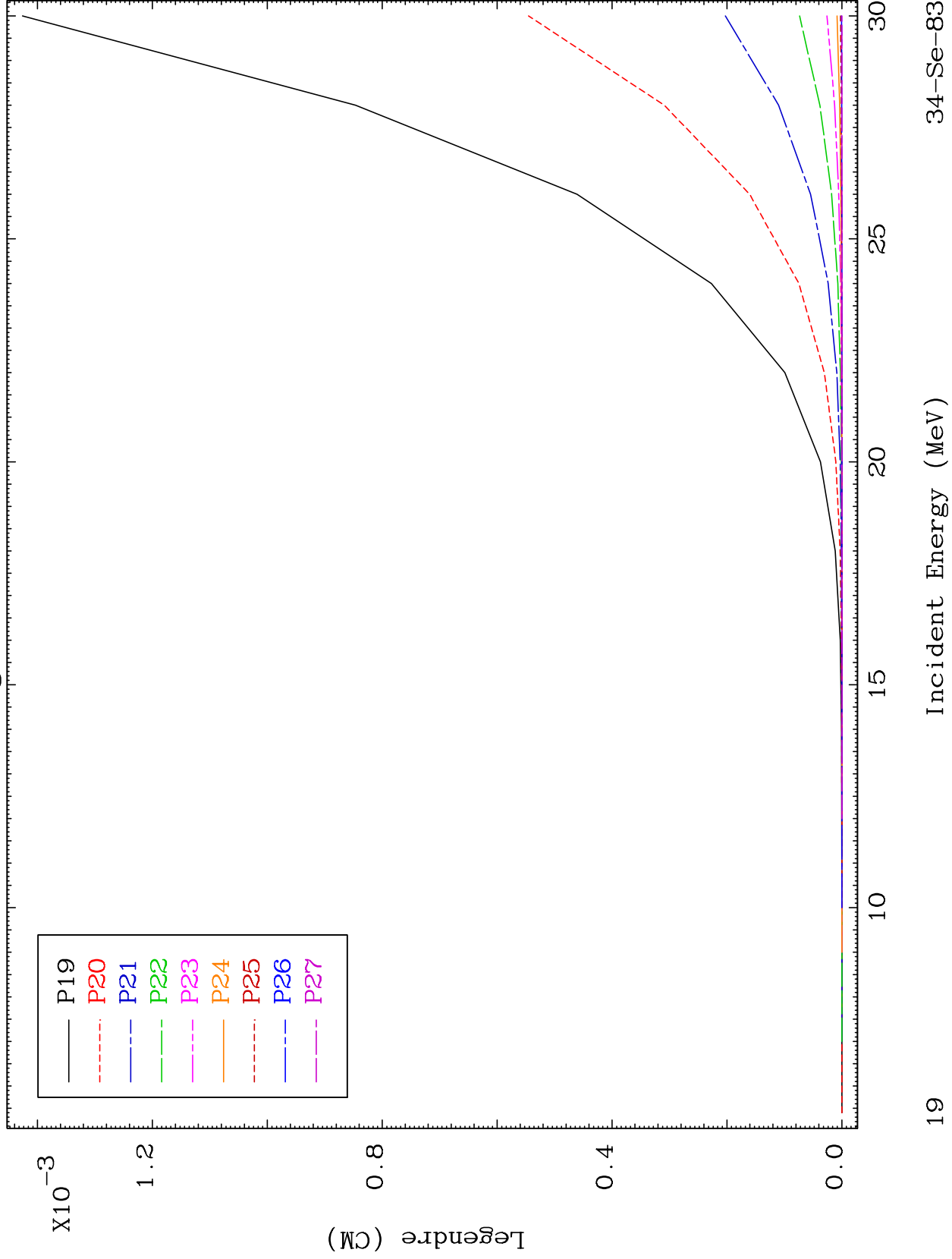
18

<sup>34</sup>Se-83

MAT 3452

Elastic Legendre Coefficients

<sup>34</sup>Se-83

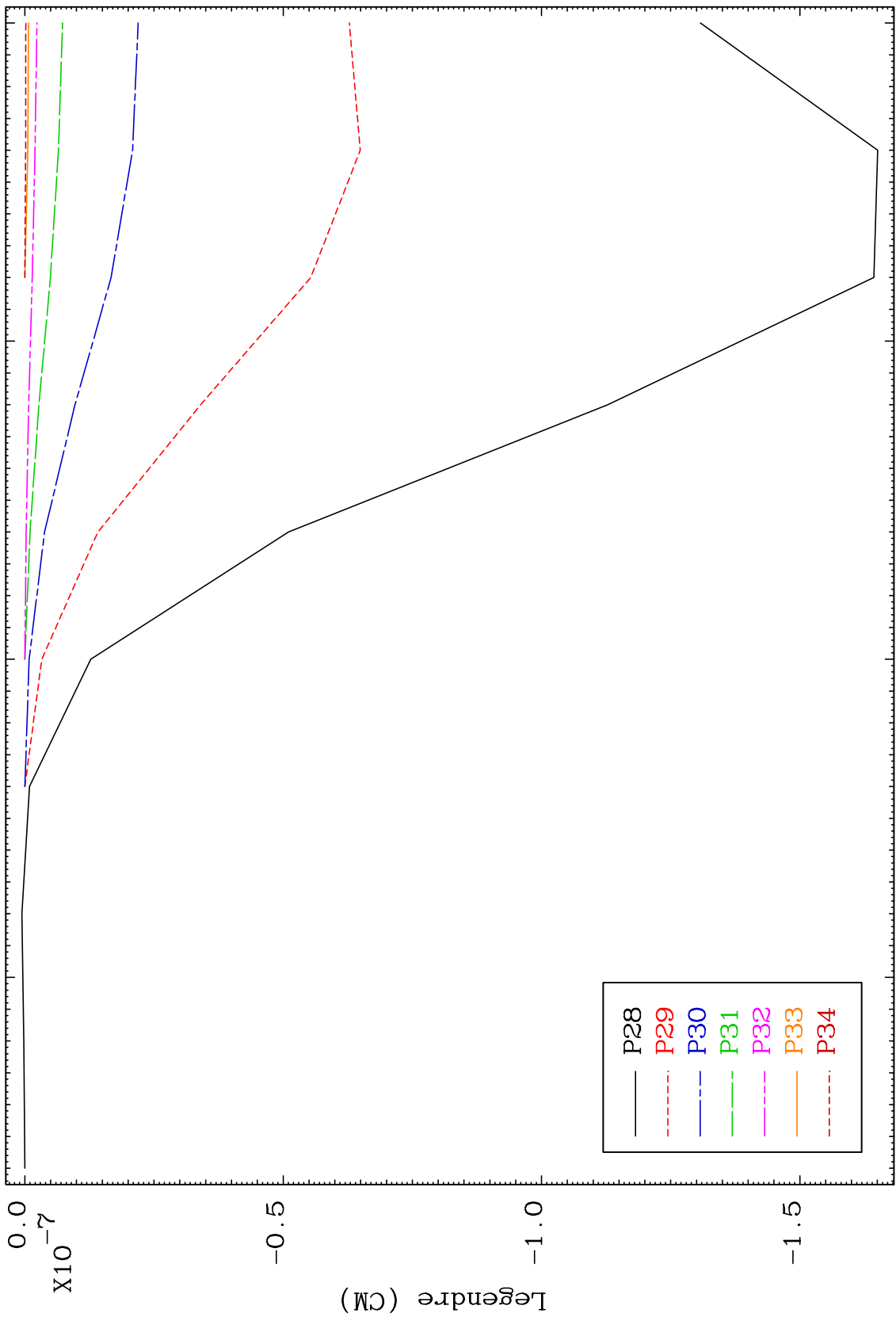


19

MAT 3452

34-Se-83

Elastic Legendre Coefficients



Legendre (CM)  
X10<sup>-7</sup>

30

25

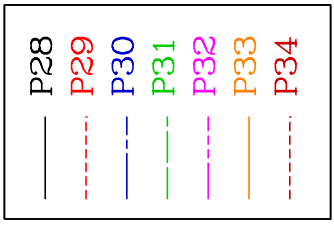
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15

34-Se-83

Incident Energy (MeV)

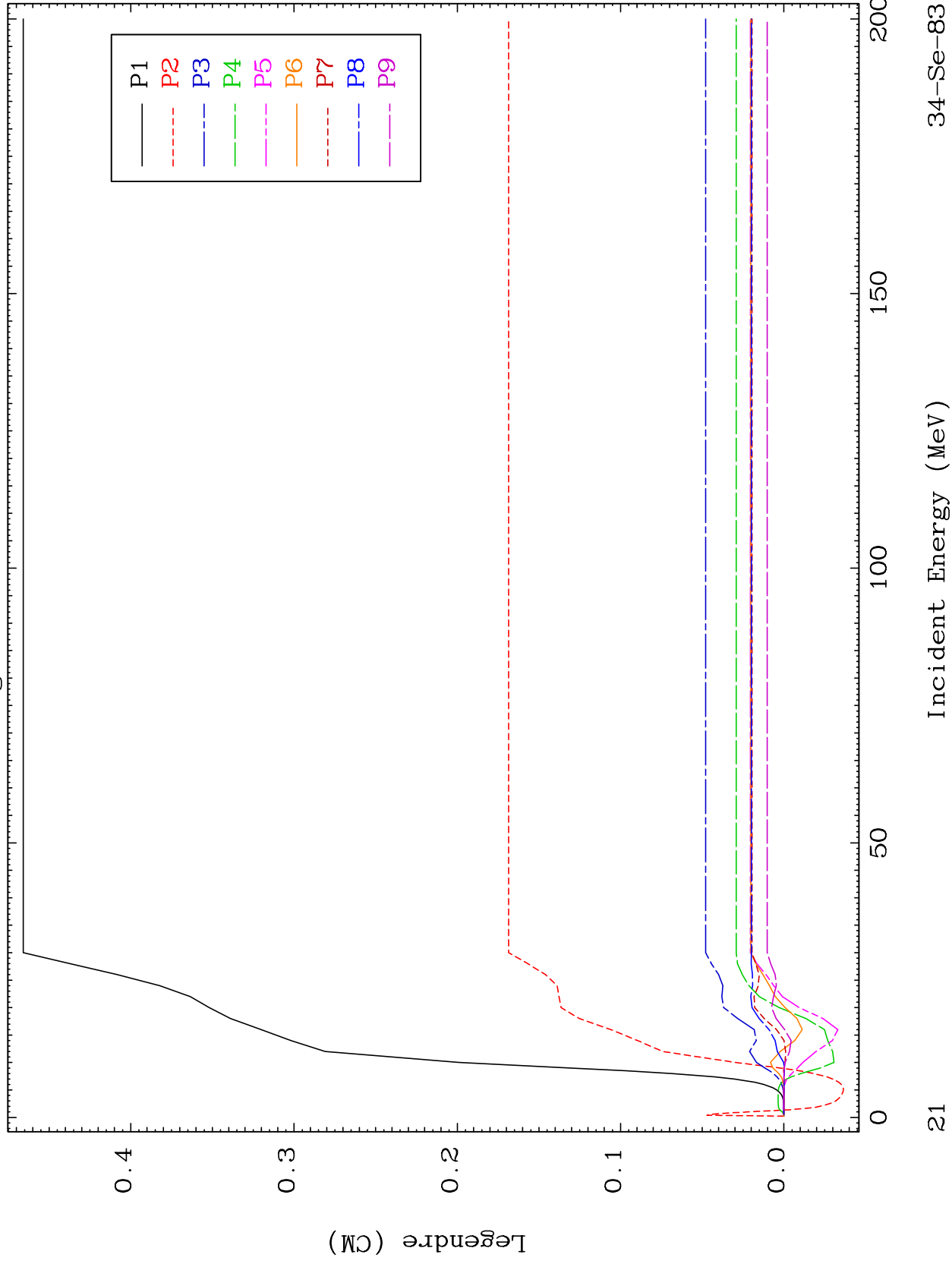
20



MAT 3452

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

<sup>34</sup>Se-83



<sup>34</sup>Se-83

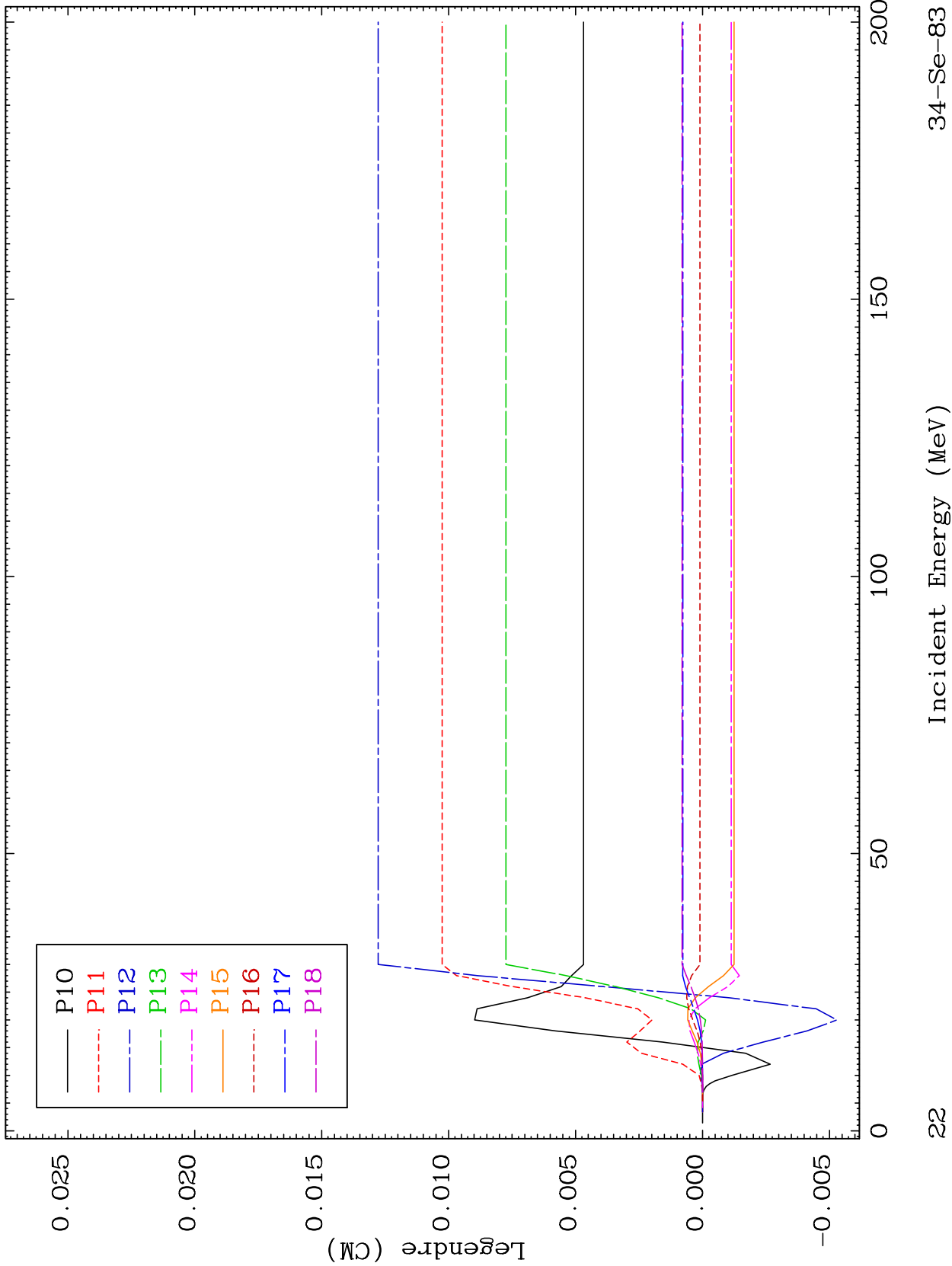
Incident Energy (MeV)

21

MAT 3452

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

34-Se-83



22

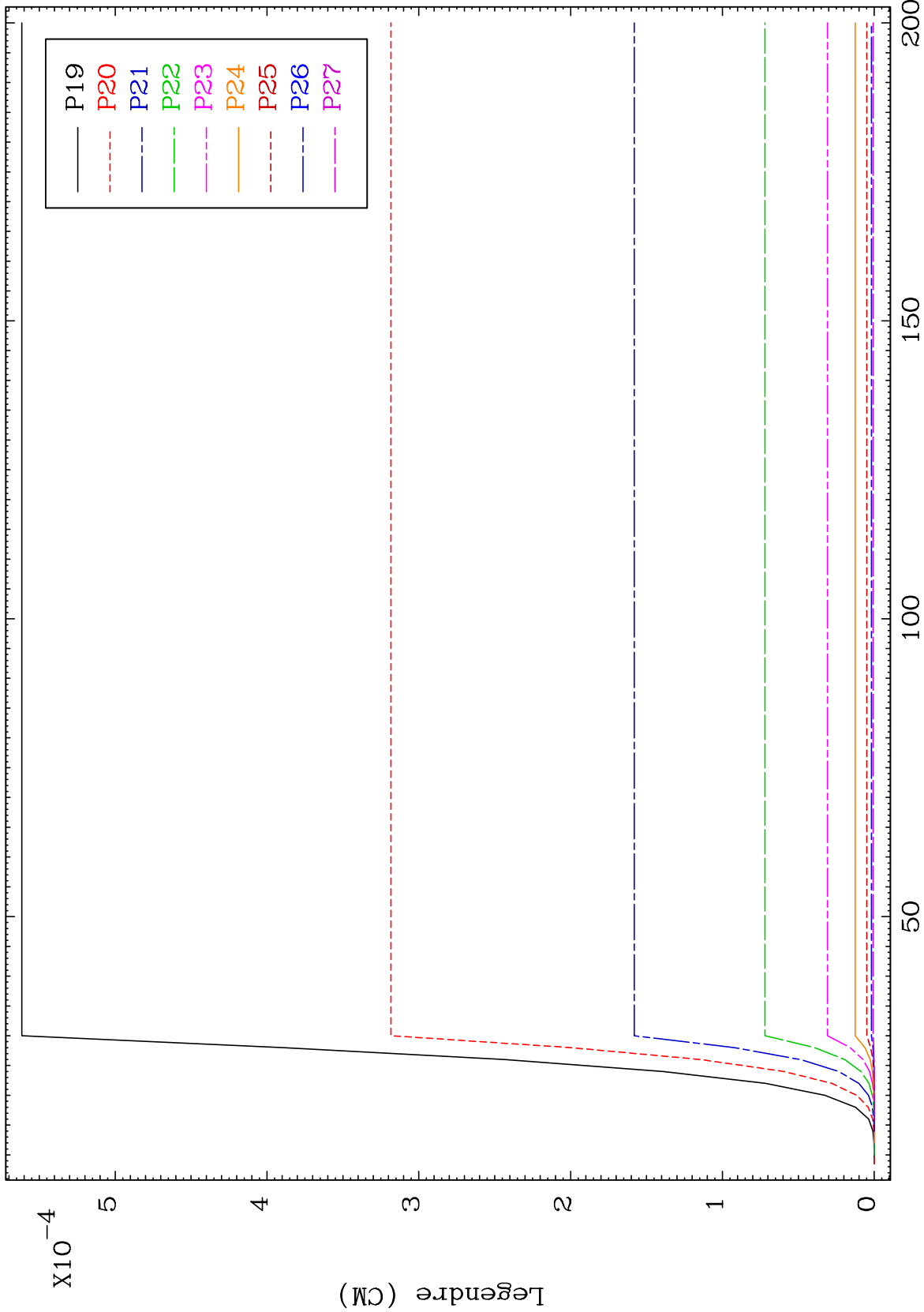
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



23

Incident Energy (MeV)

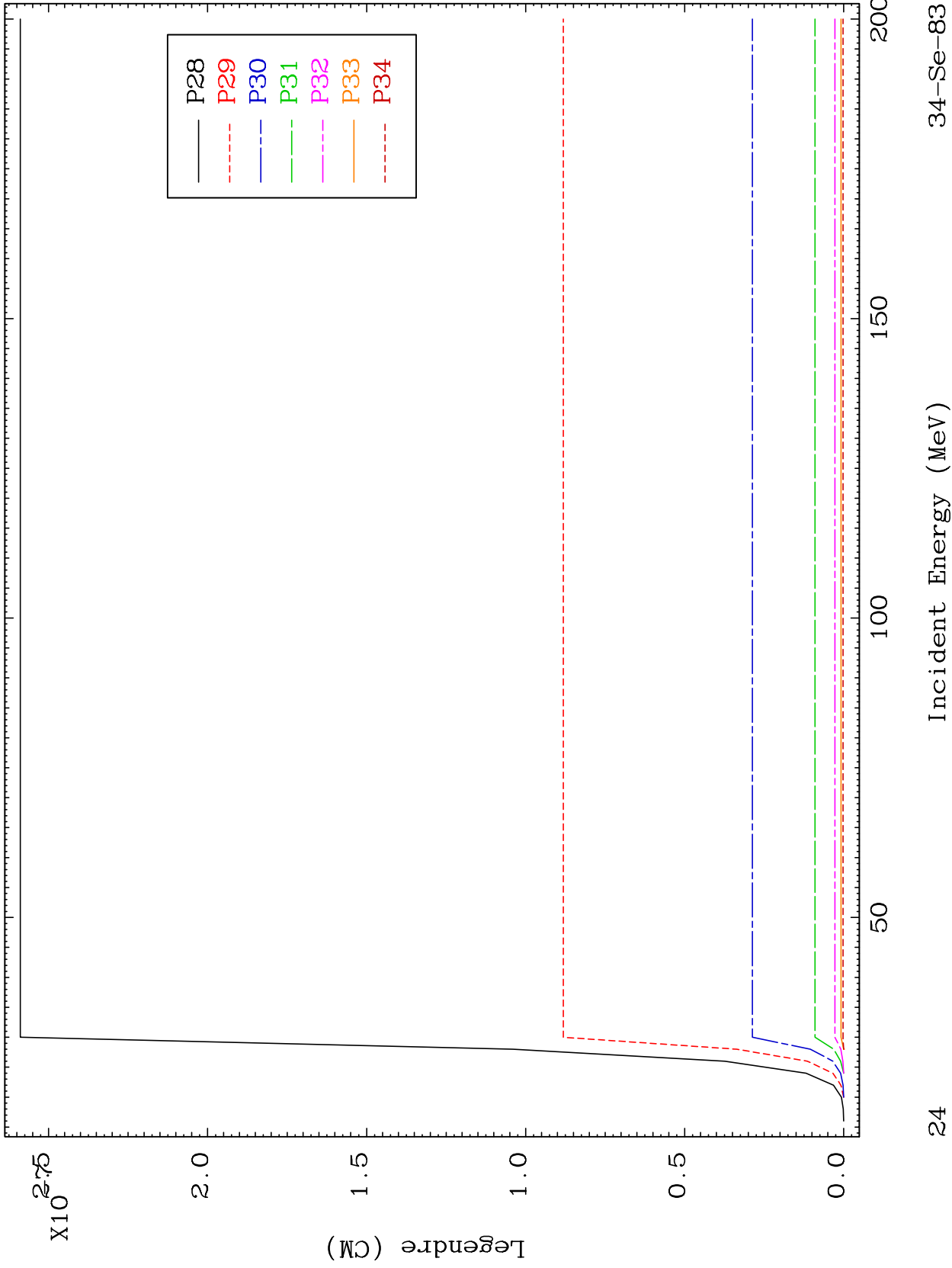
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



24

Incident Energy (MeV)

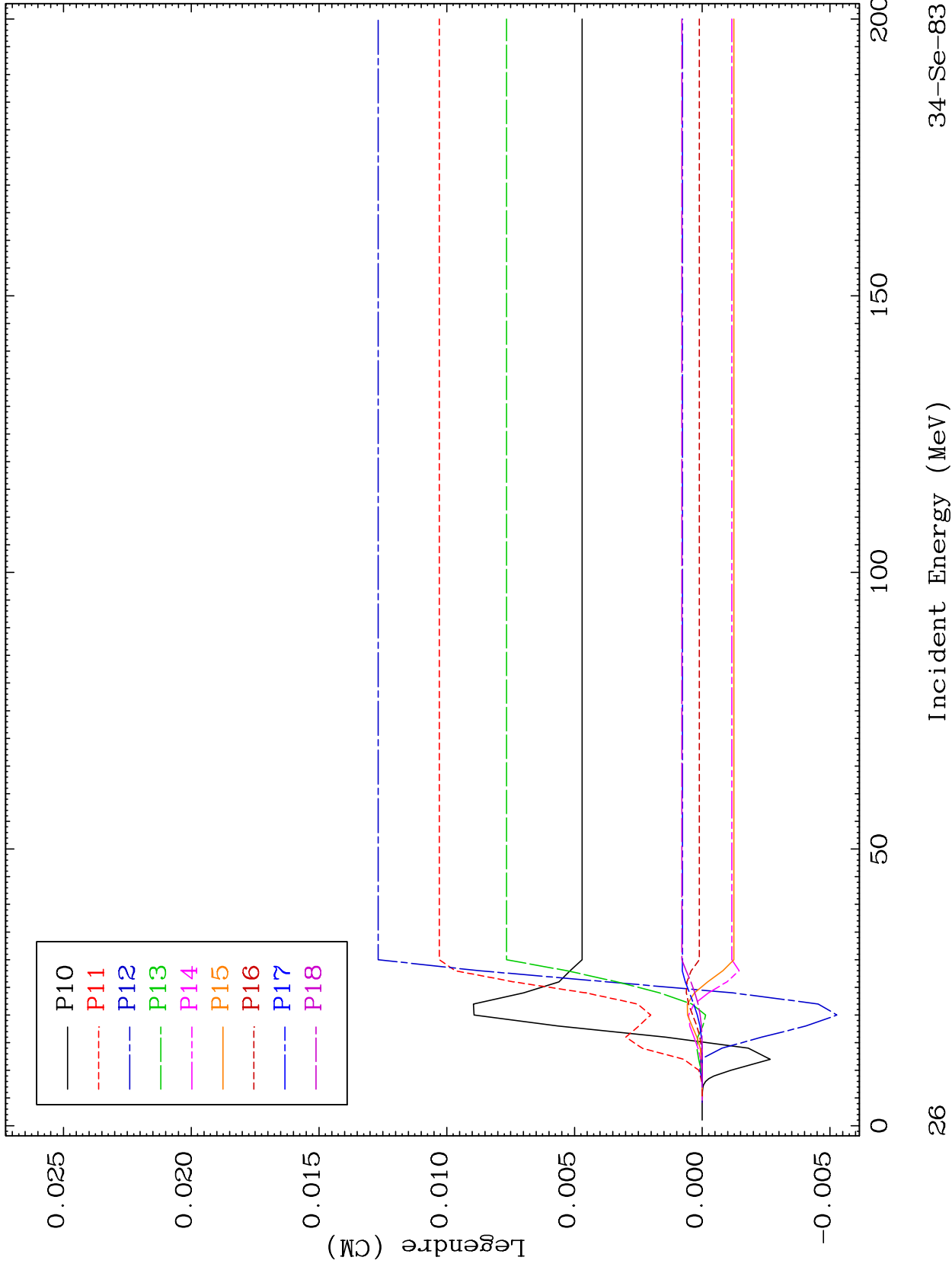
34-Se-83



MAT 3452

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

34-Se-83



26

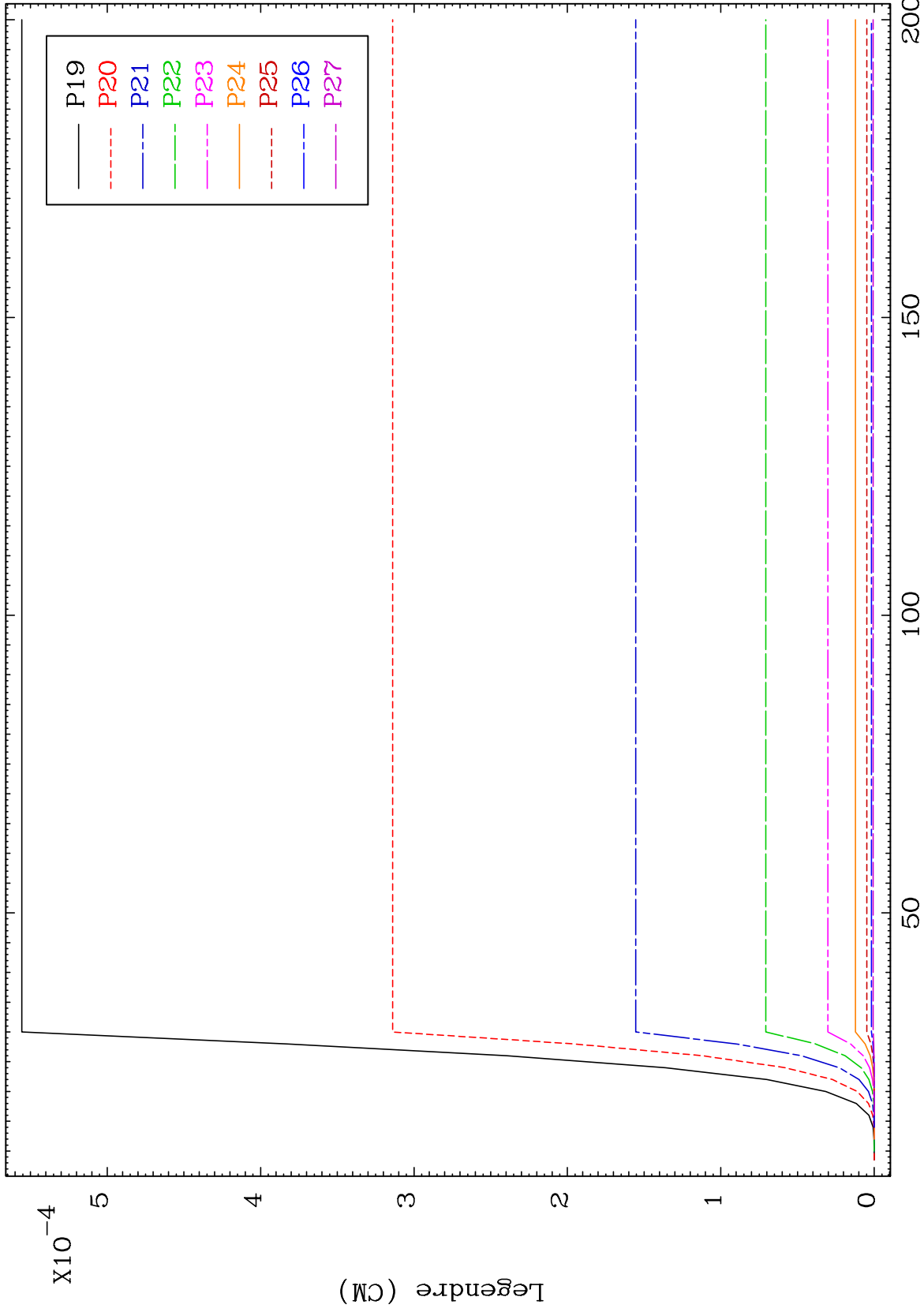
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



27

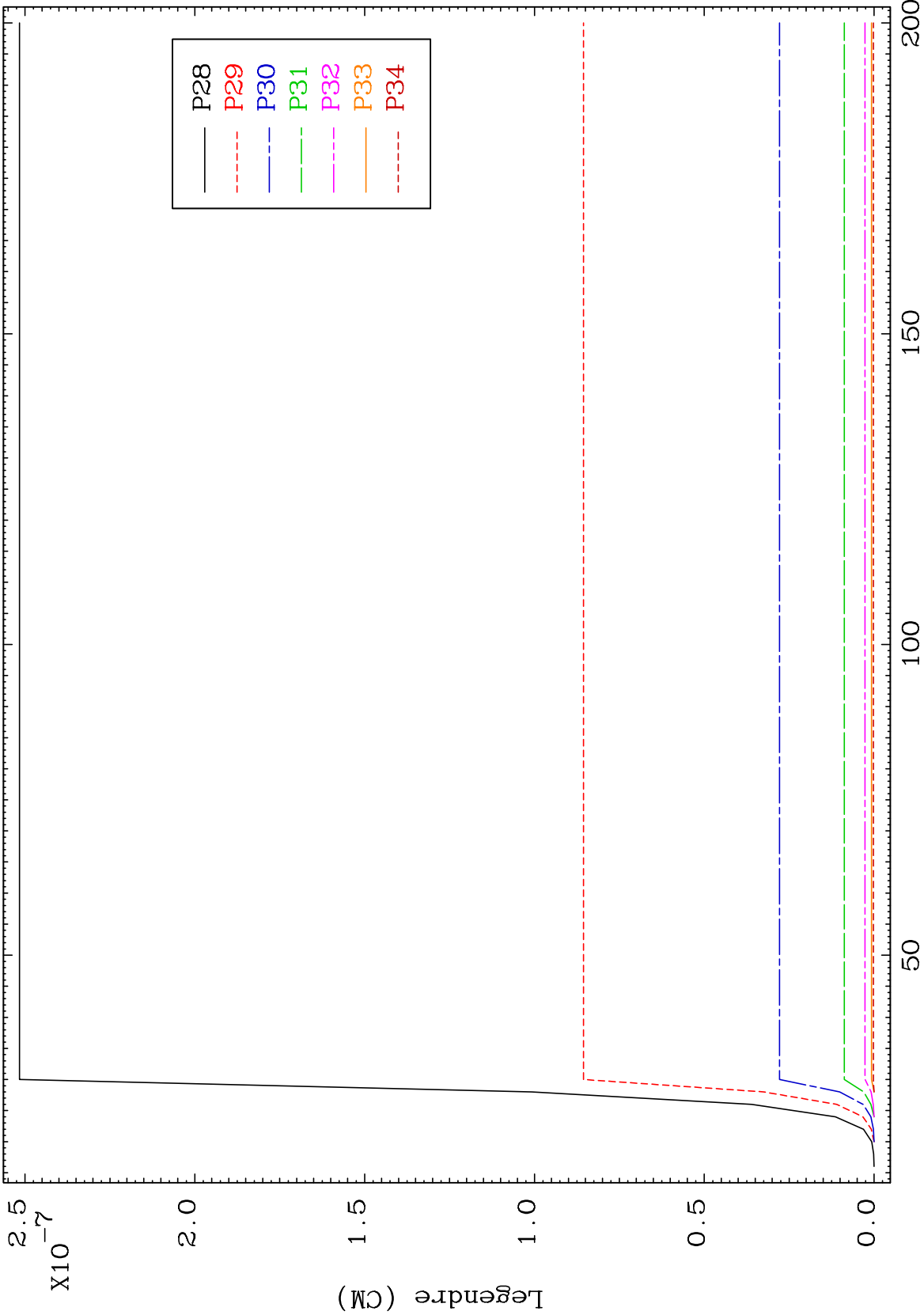
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



28

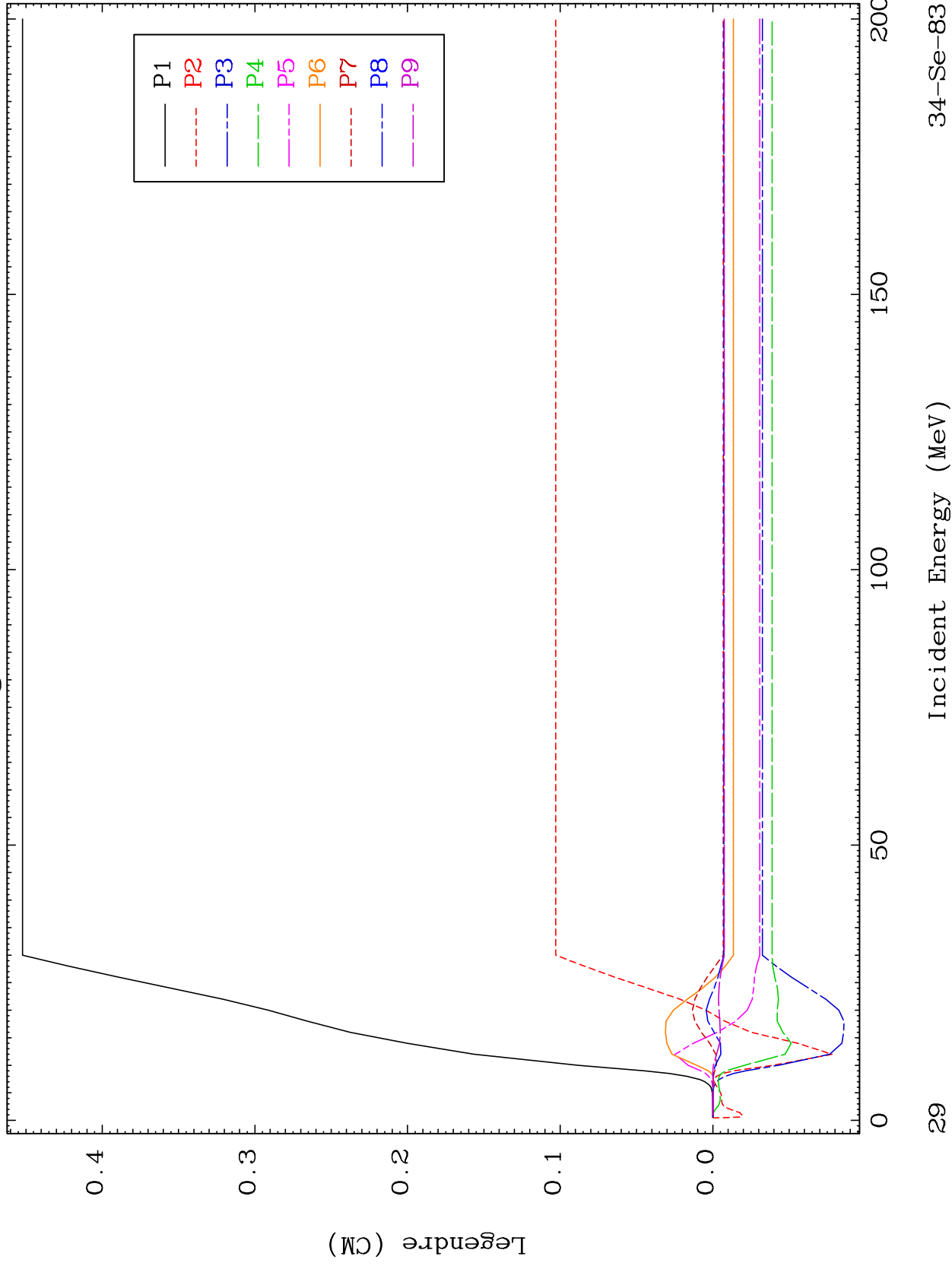
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



34-Se-83

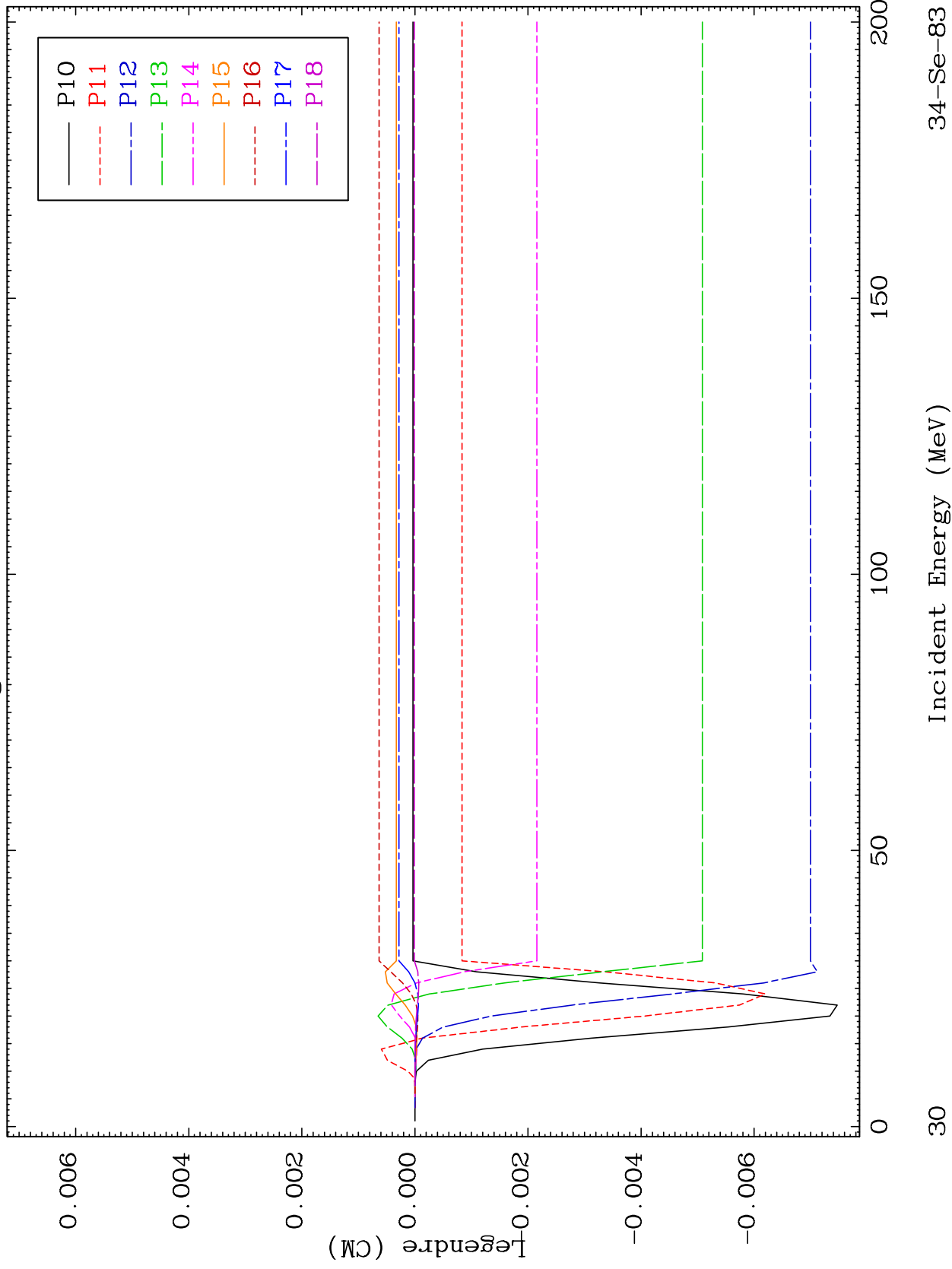
Incident Energy (MeV)

29

MAT 3452

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

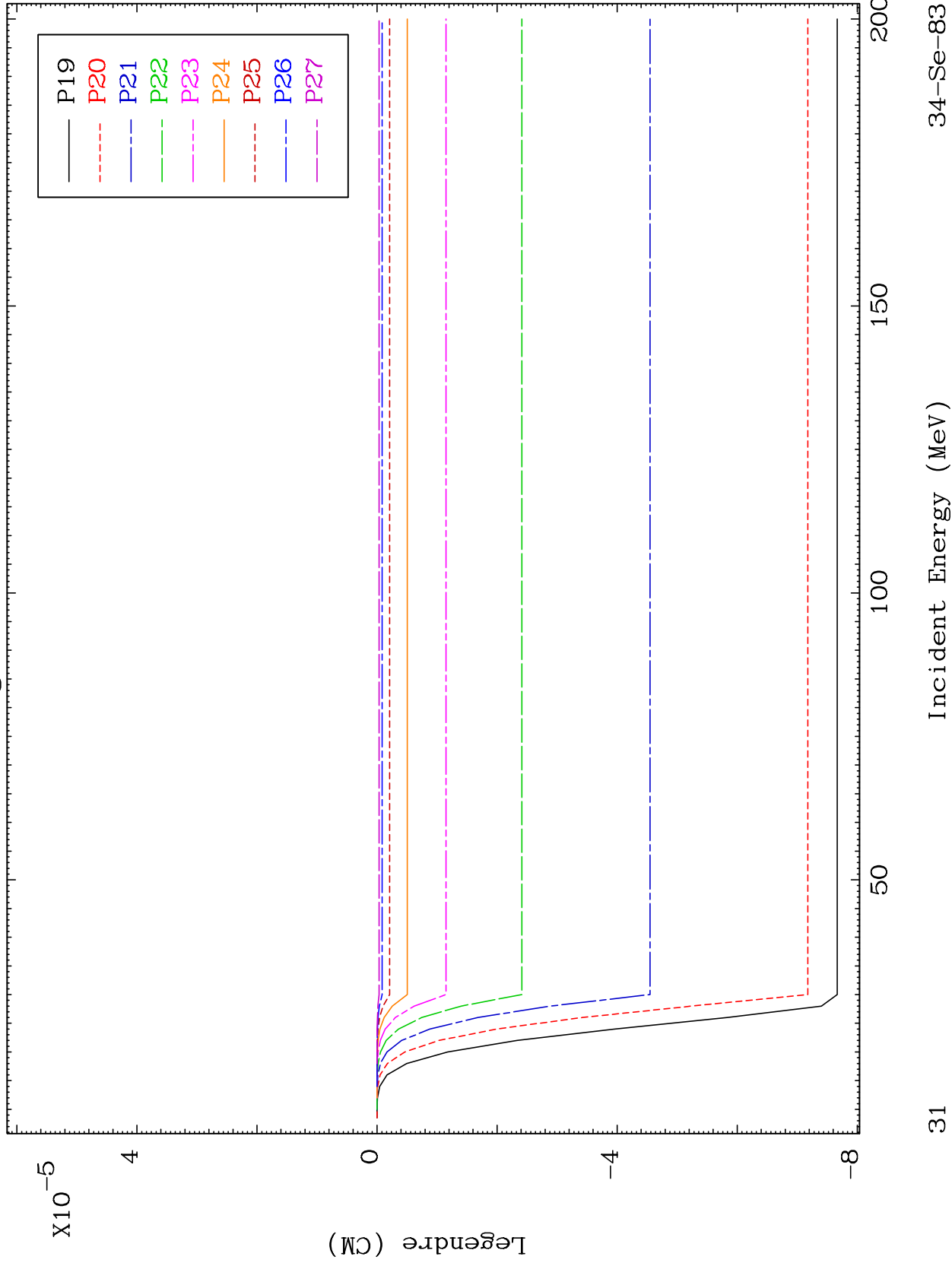
34-Se-83



MAT 3452

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

<sup>34</sup>Se-83

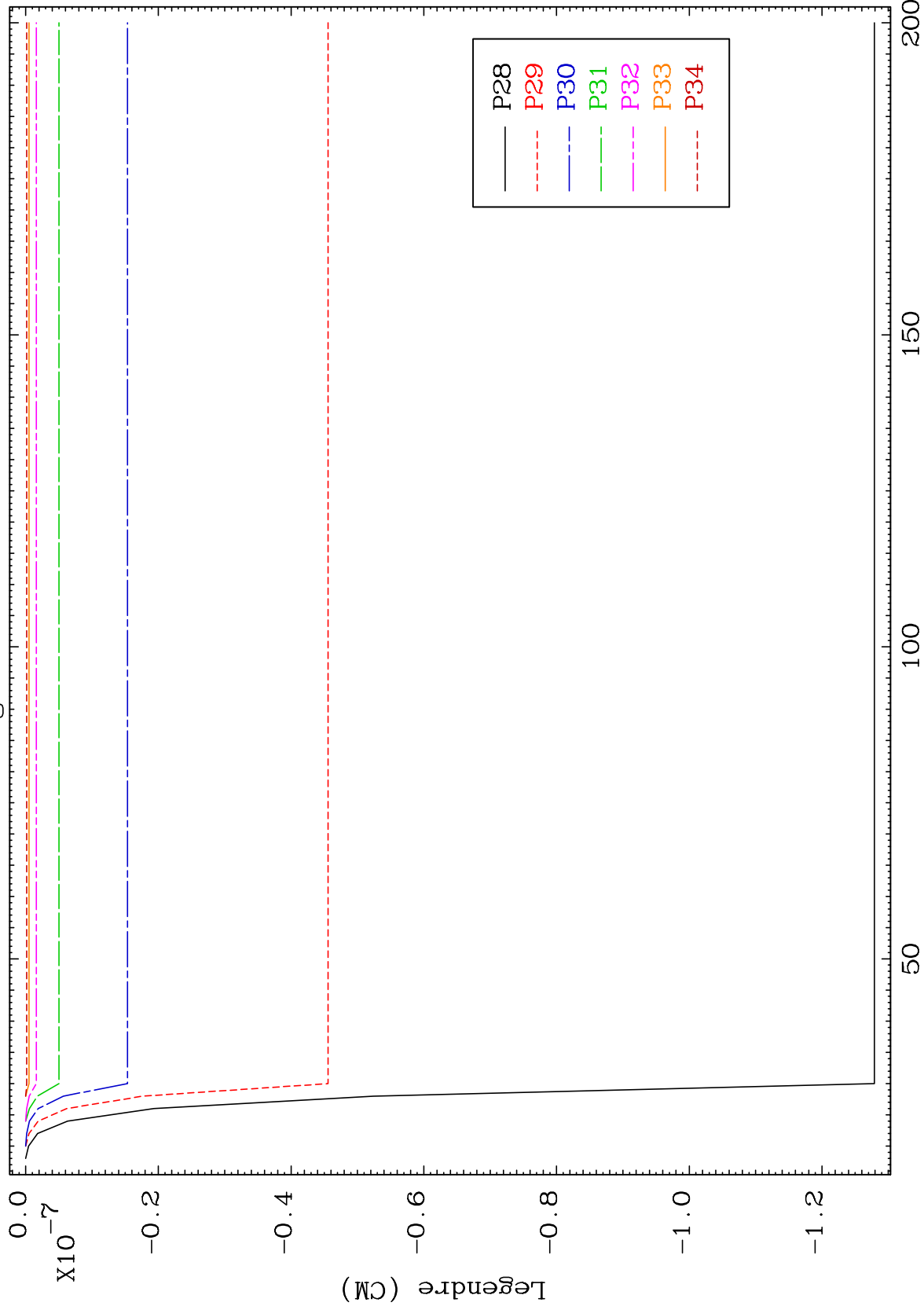




MAT 3452

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

34-Se-83



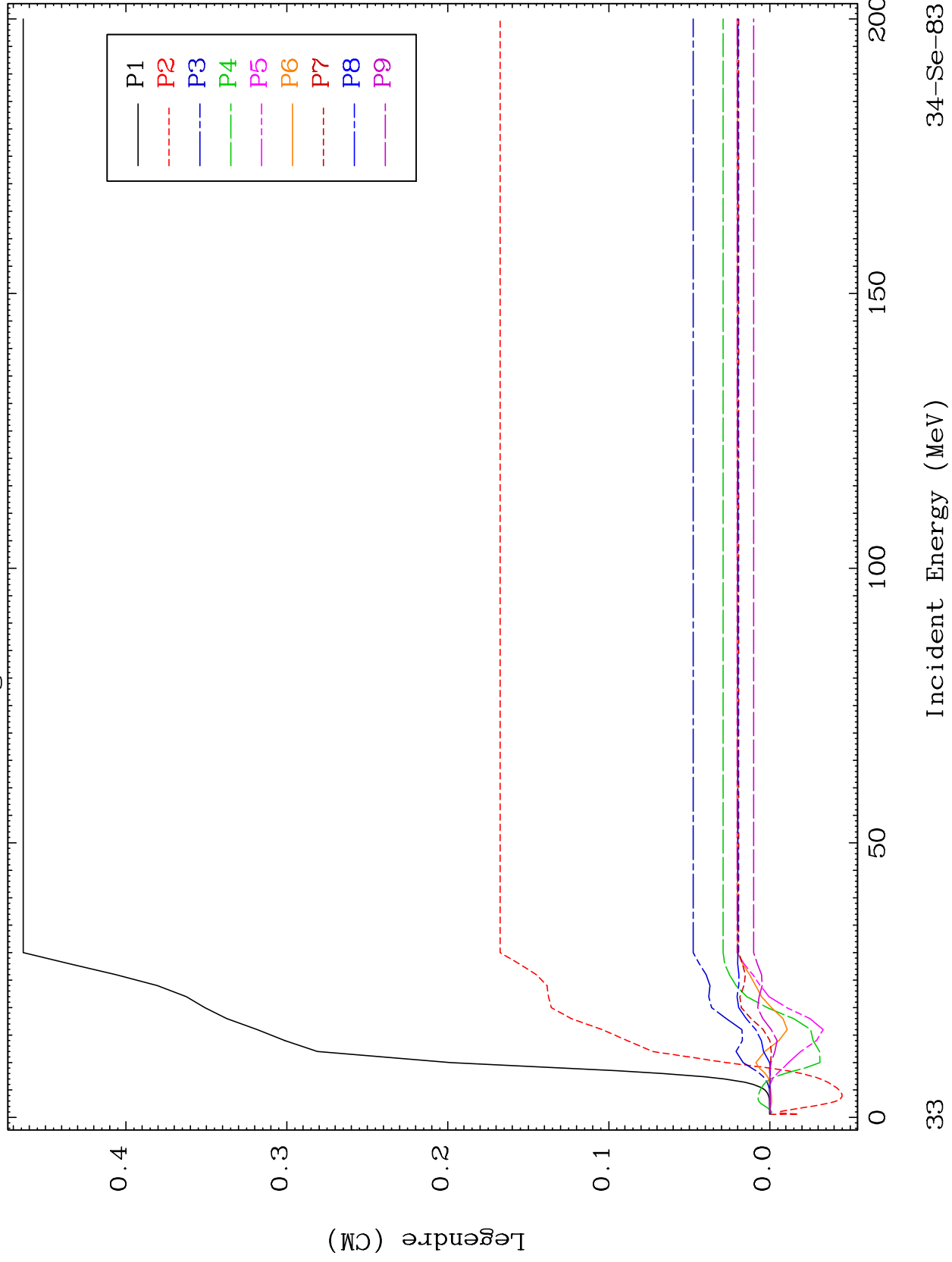
32

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



<sup>34</sup>Se-83

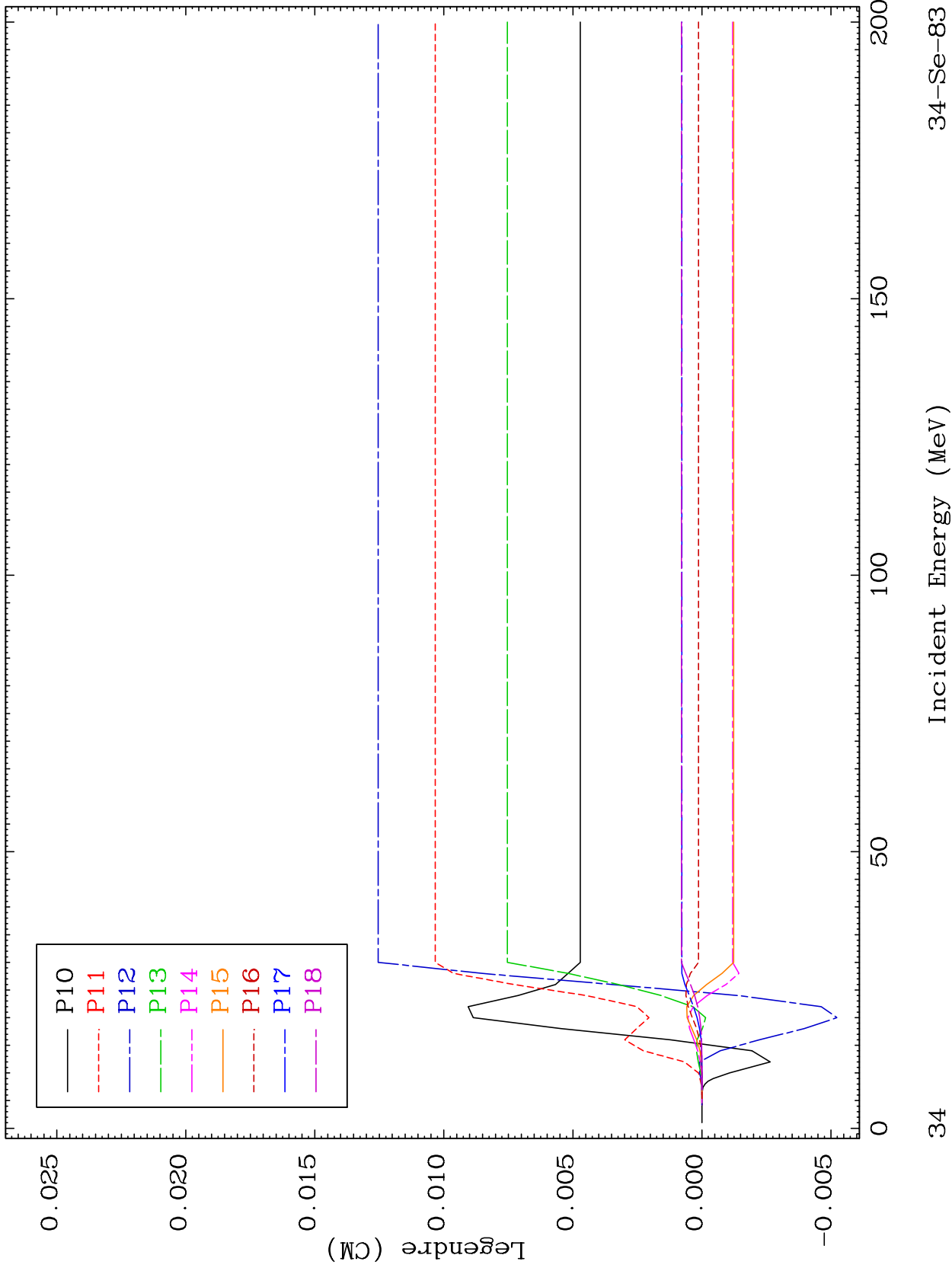
Incident Energy (MeV)

33

MAT 3452

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

<sup>34</sup>Se-83



34

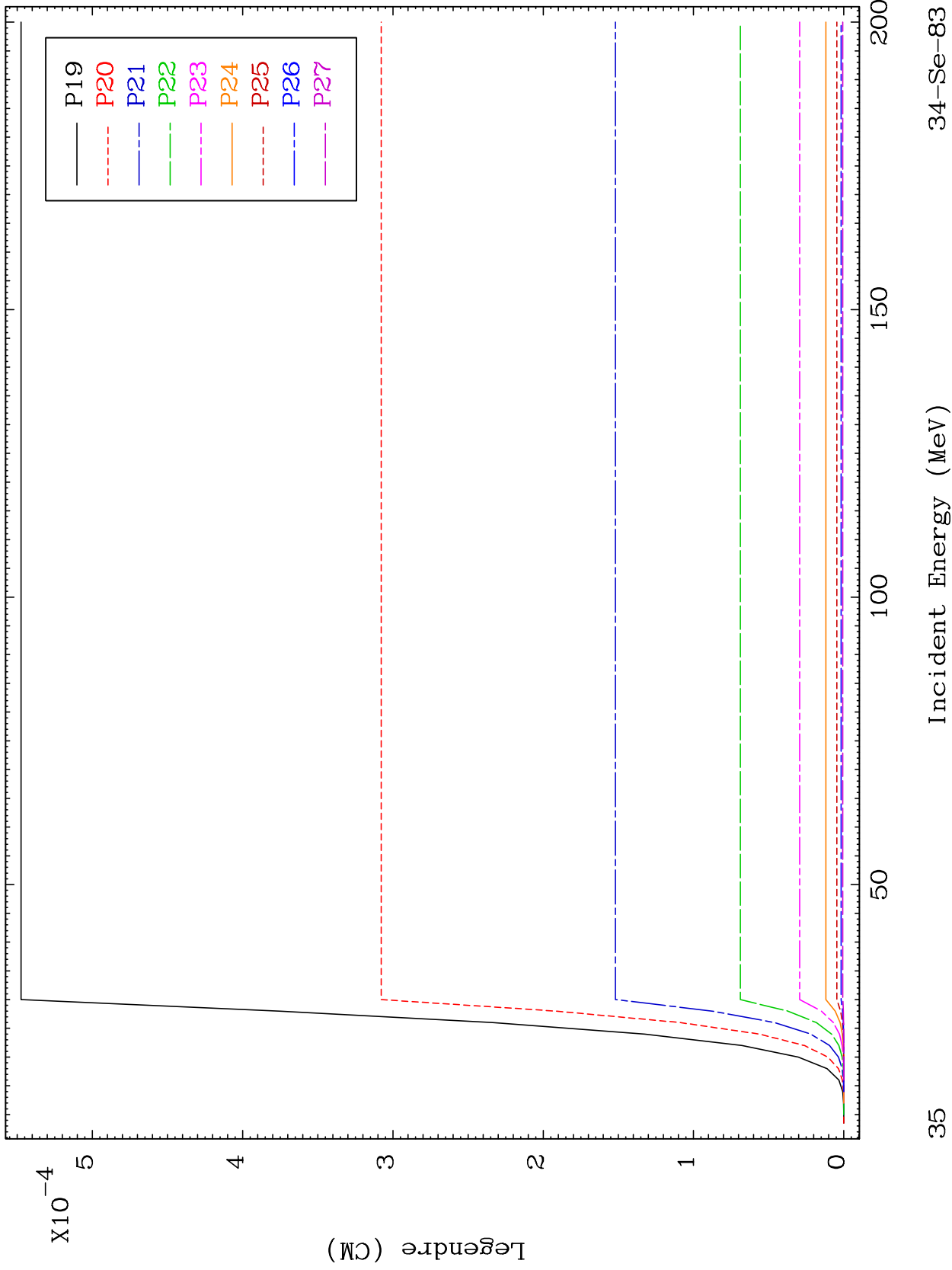
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

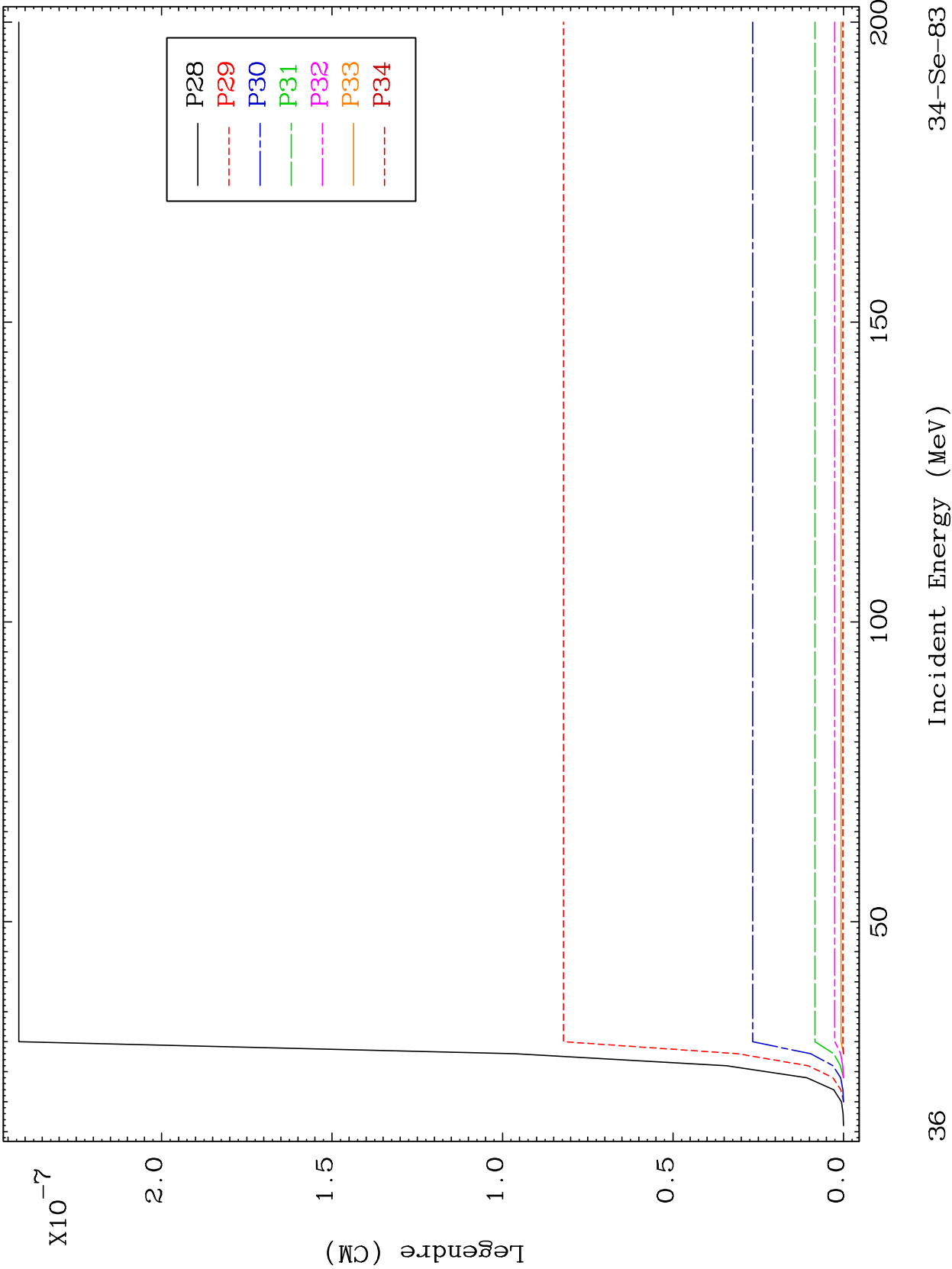
<sup>34</sup>Se-83



35

Incident Energy (MeV)

<sup>34</sup>Se-83



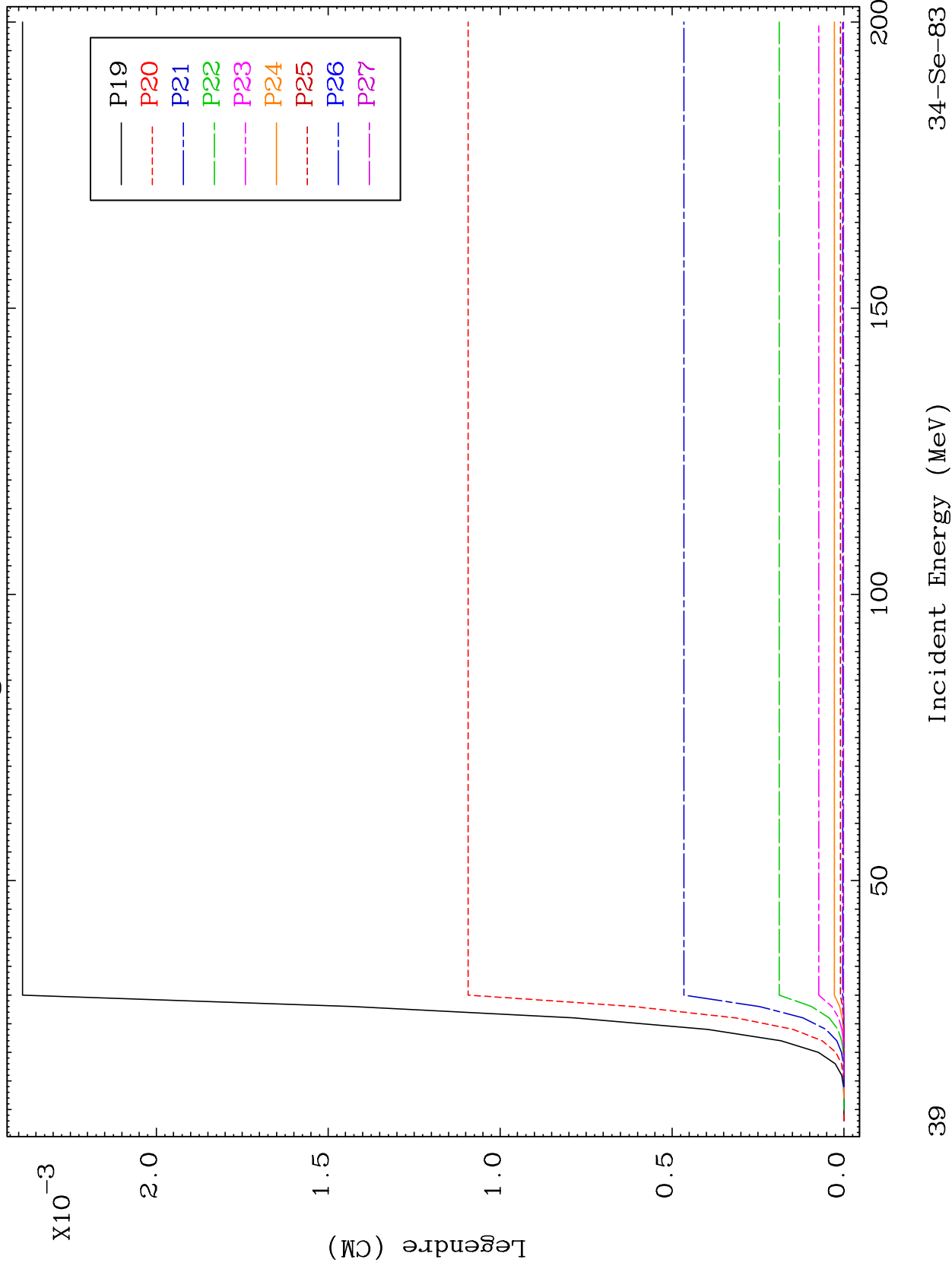




MAT 3452

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

<sup>34</sup>Se-83



39

Incident Energy (MeV)

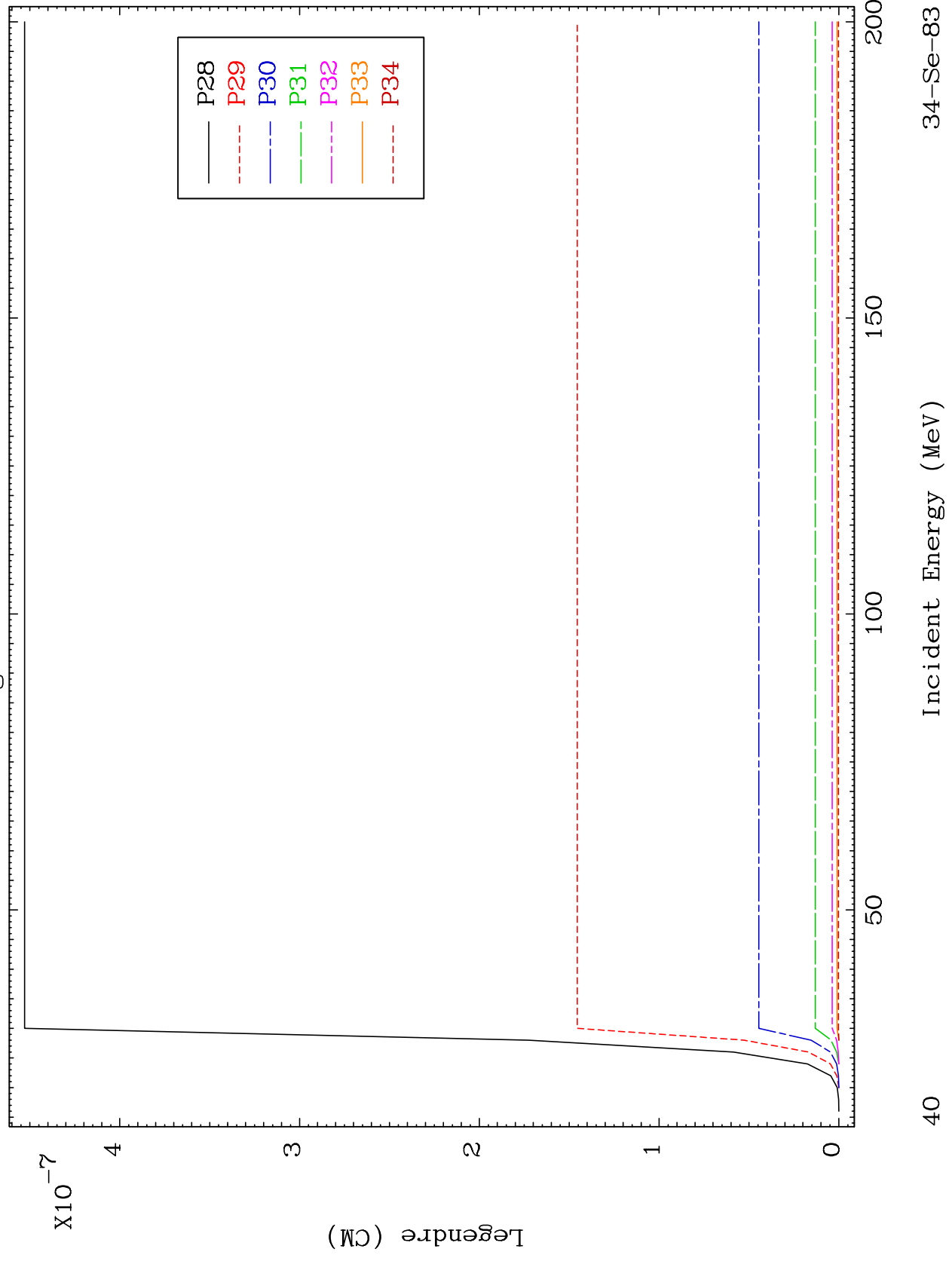
<sup>34</sup>Se-83



MAT 3452

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

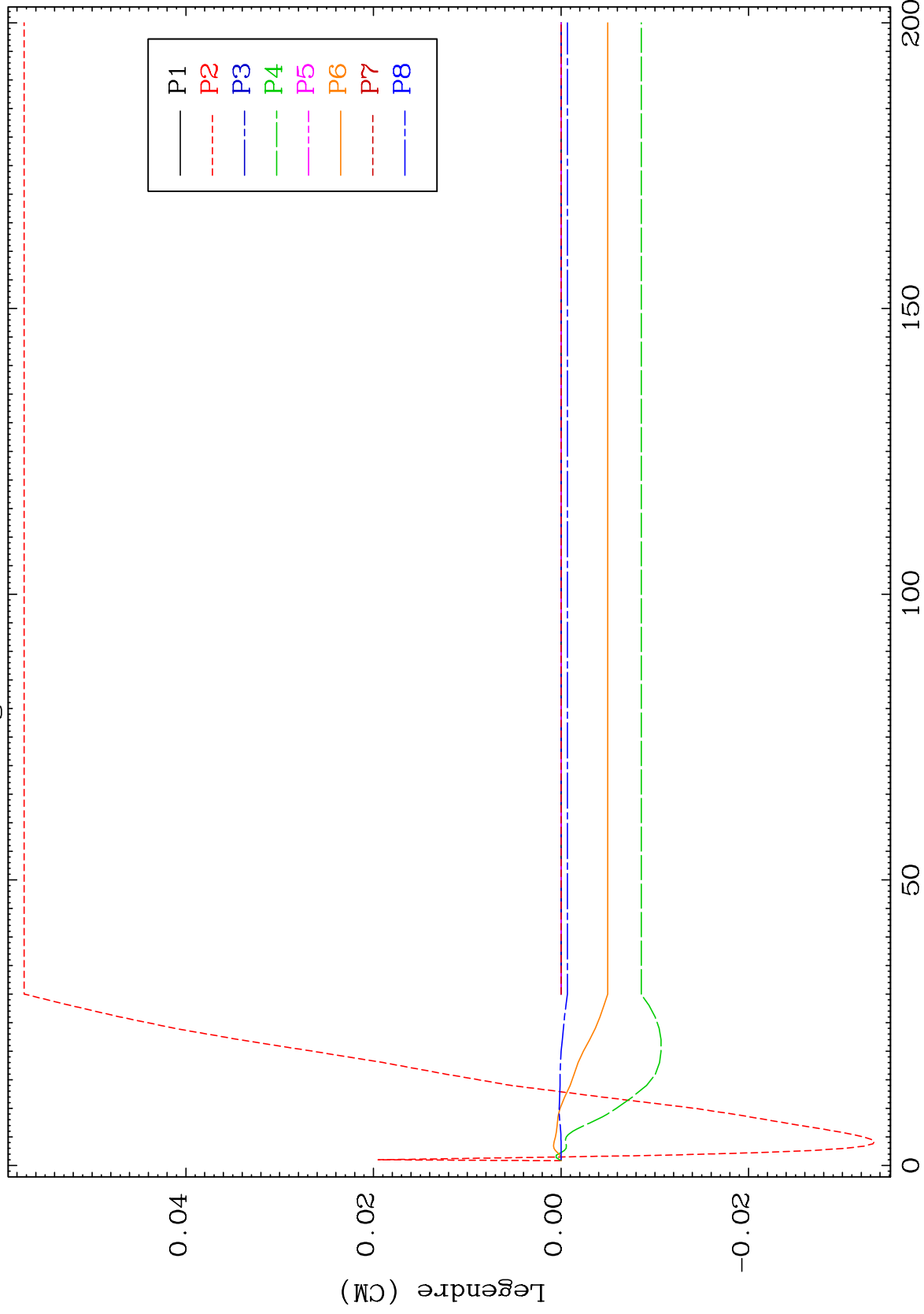
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



41

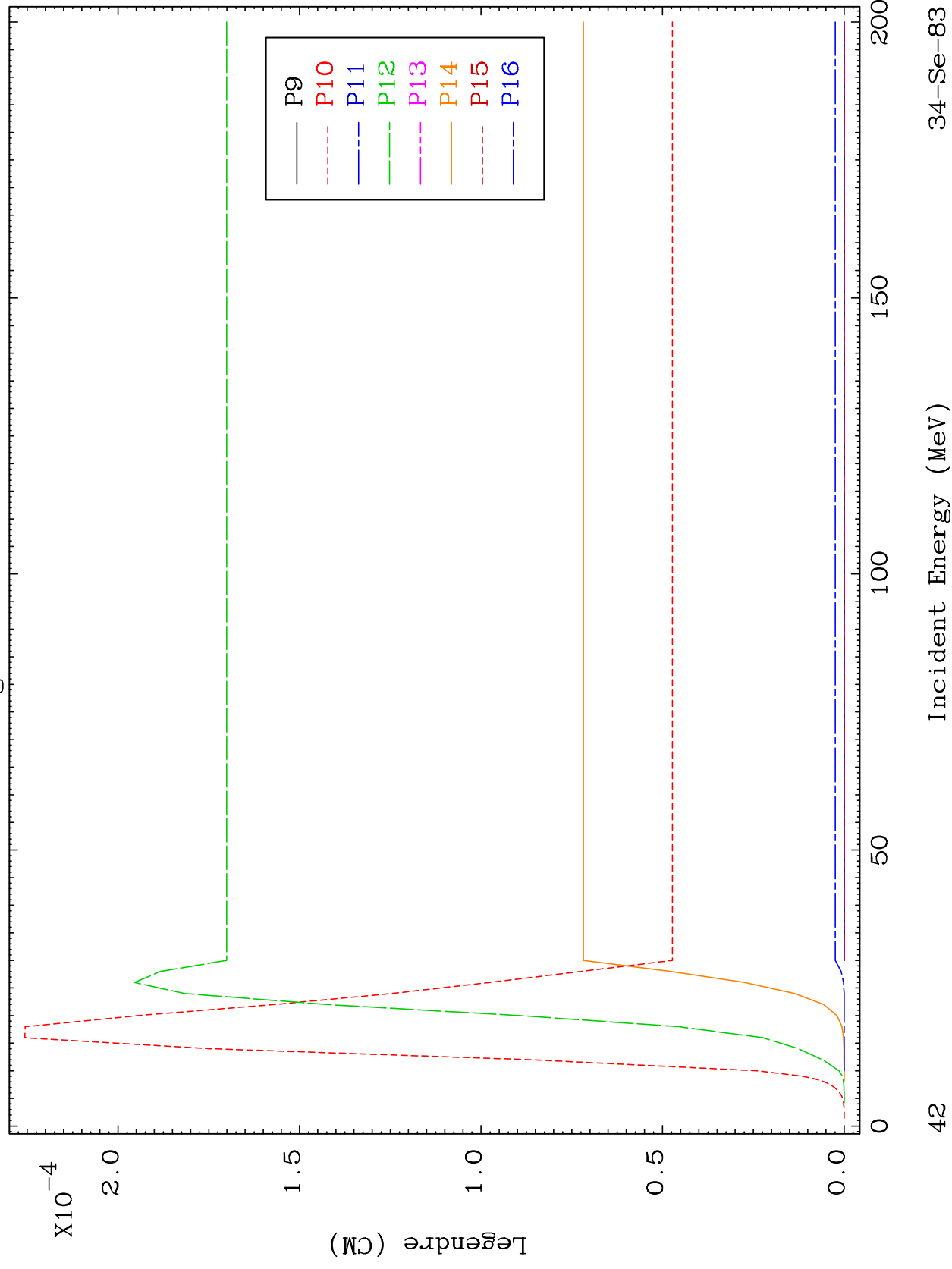
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



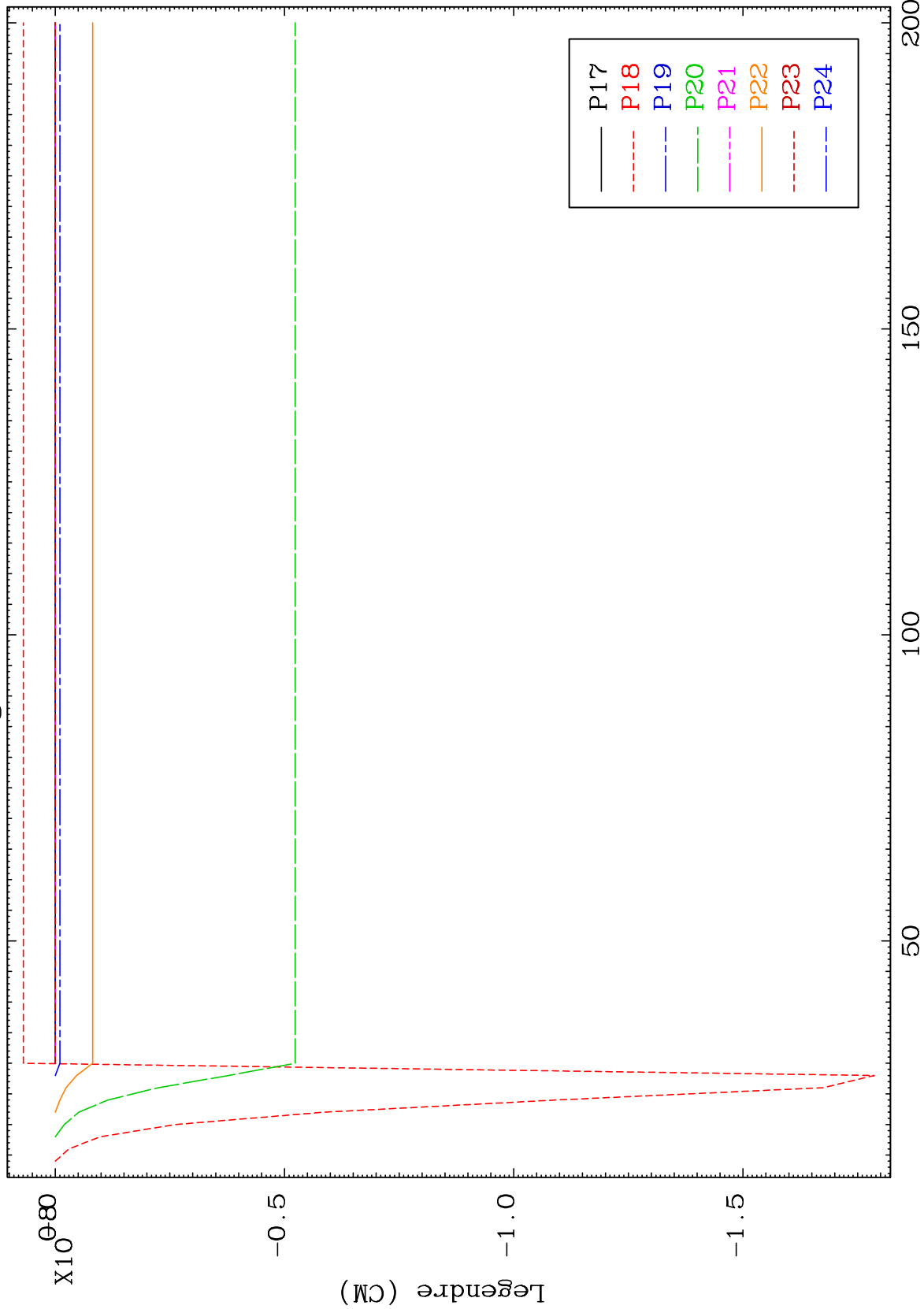
42

34-Se-83

MAT 3452

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

34-Se-83



43

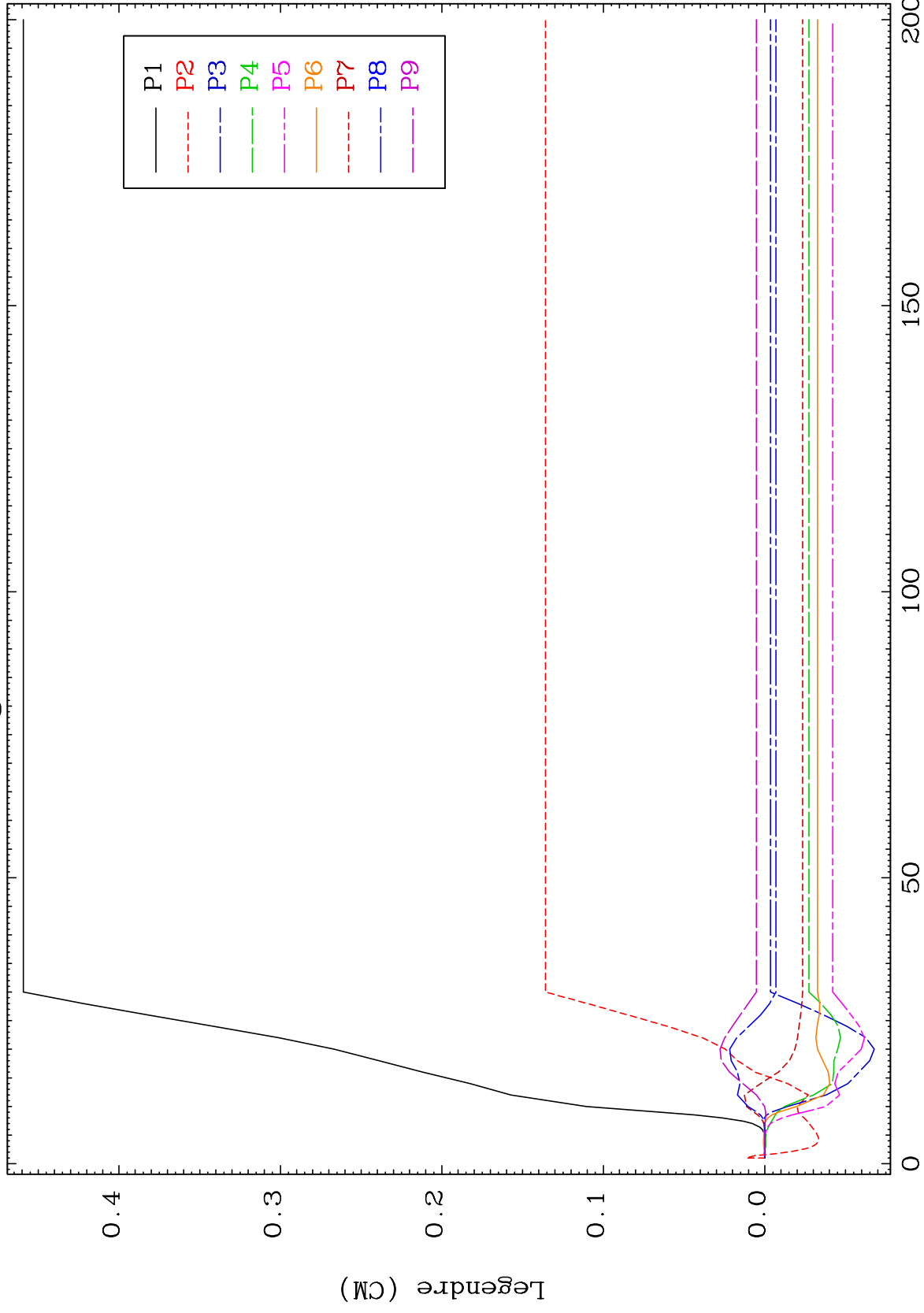
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



<sup>34</sup>Se-83

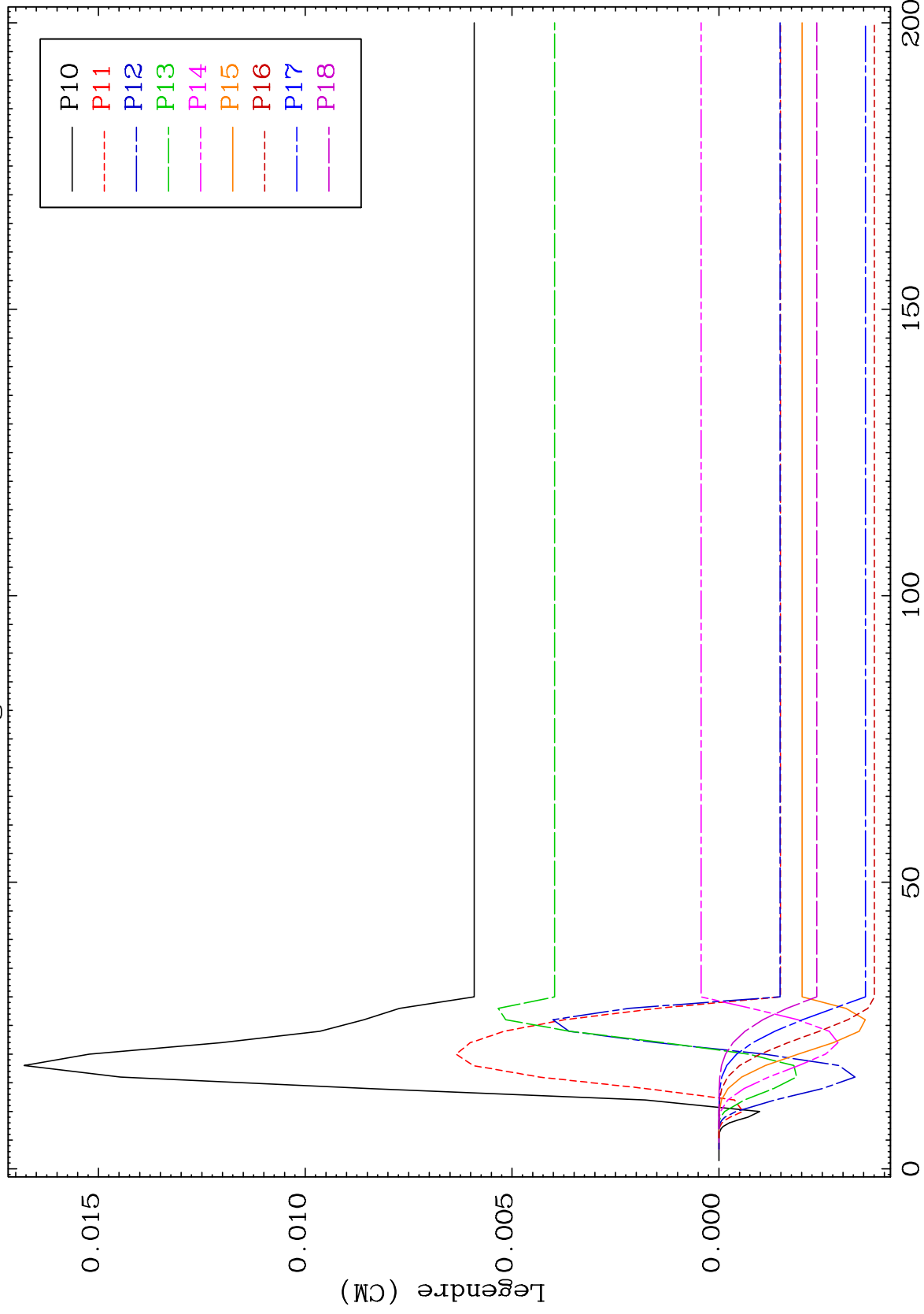
Incident Energy (MeV)

44

MAT 3452

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

34-Se-83



45

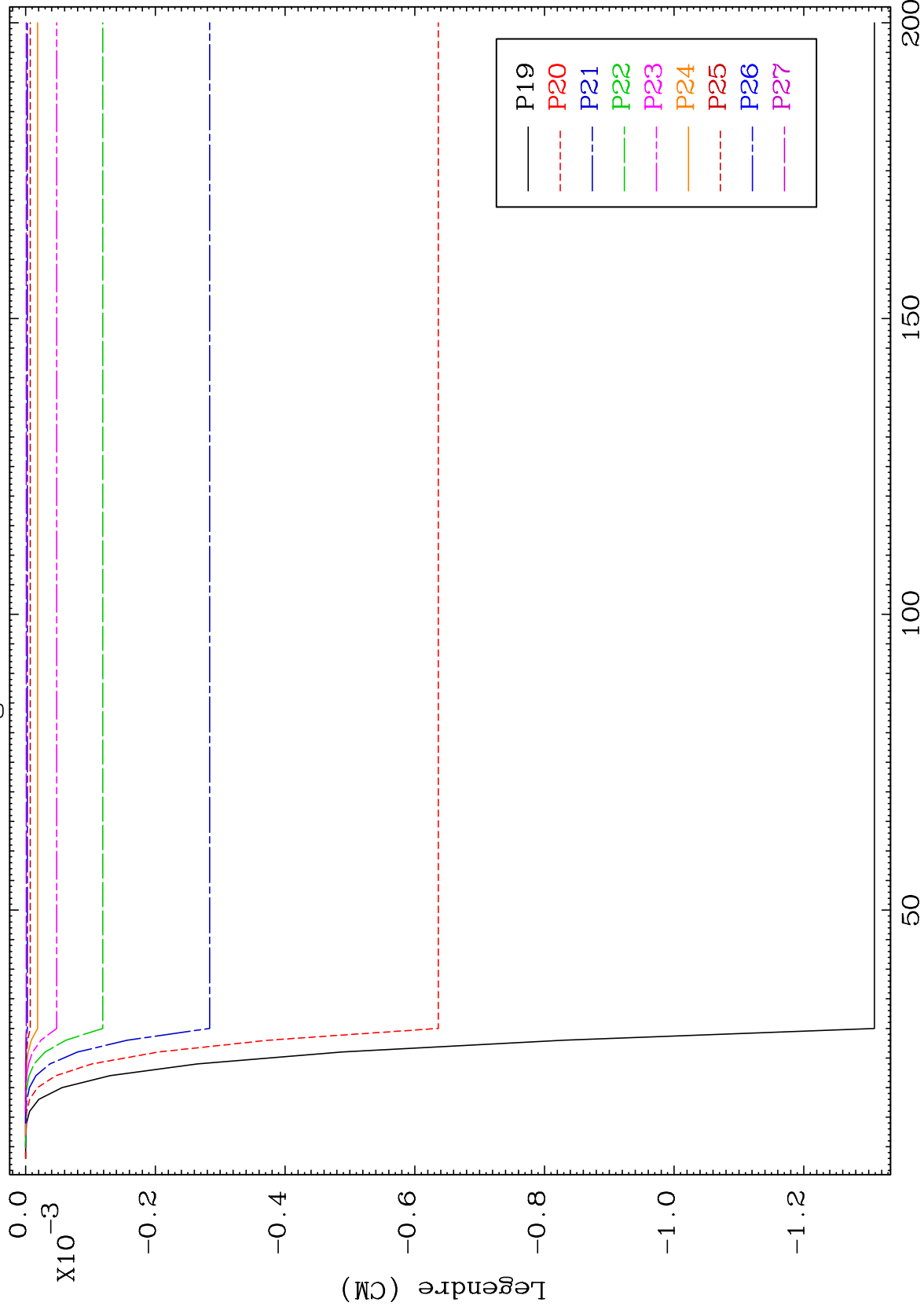
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



46

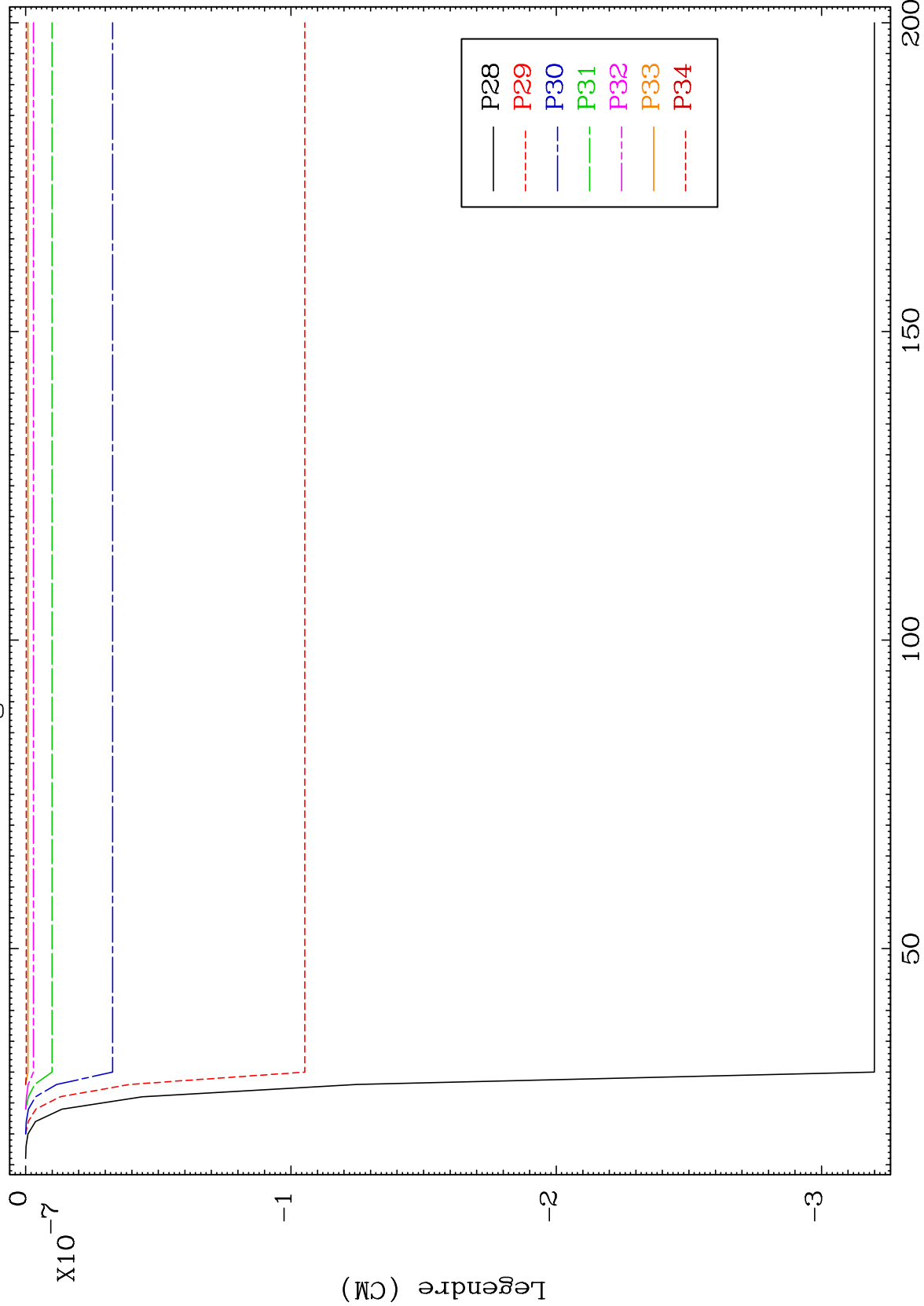
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



47

Incident Energy (MeV)

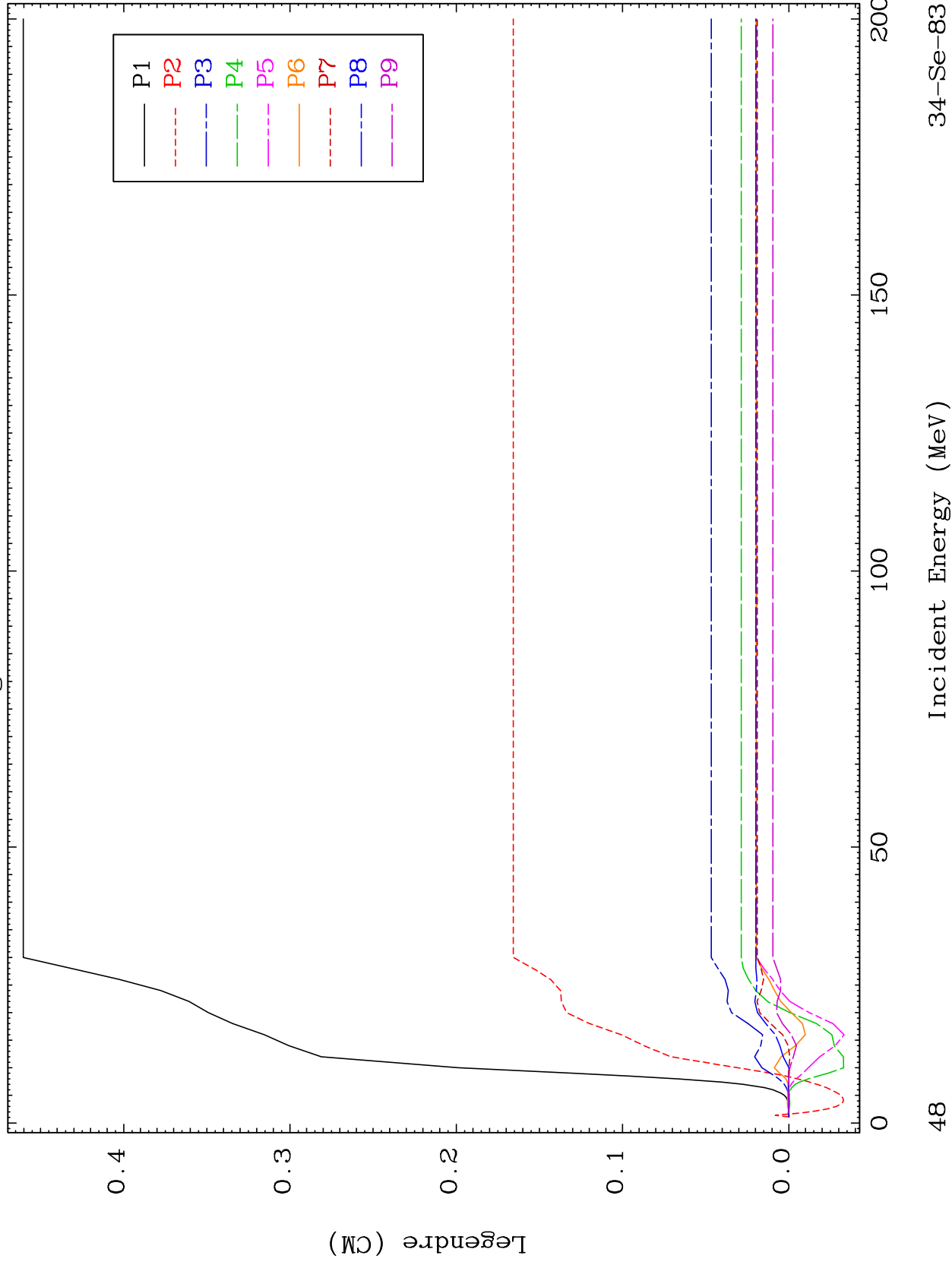
34-Se-83



MAT 3452

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

<sup>34</sup>Se-83



<sup>34</sup>Se-83

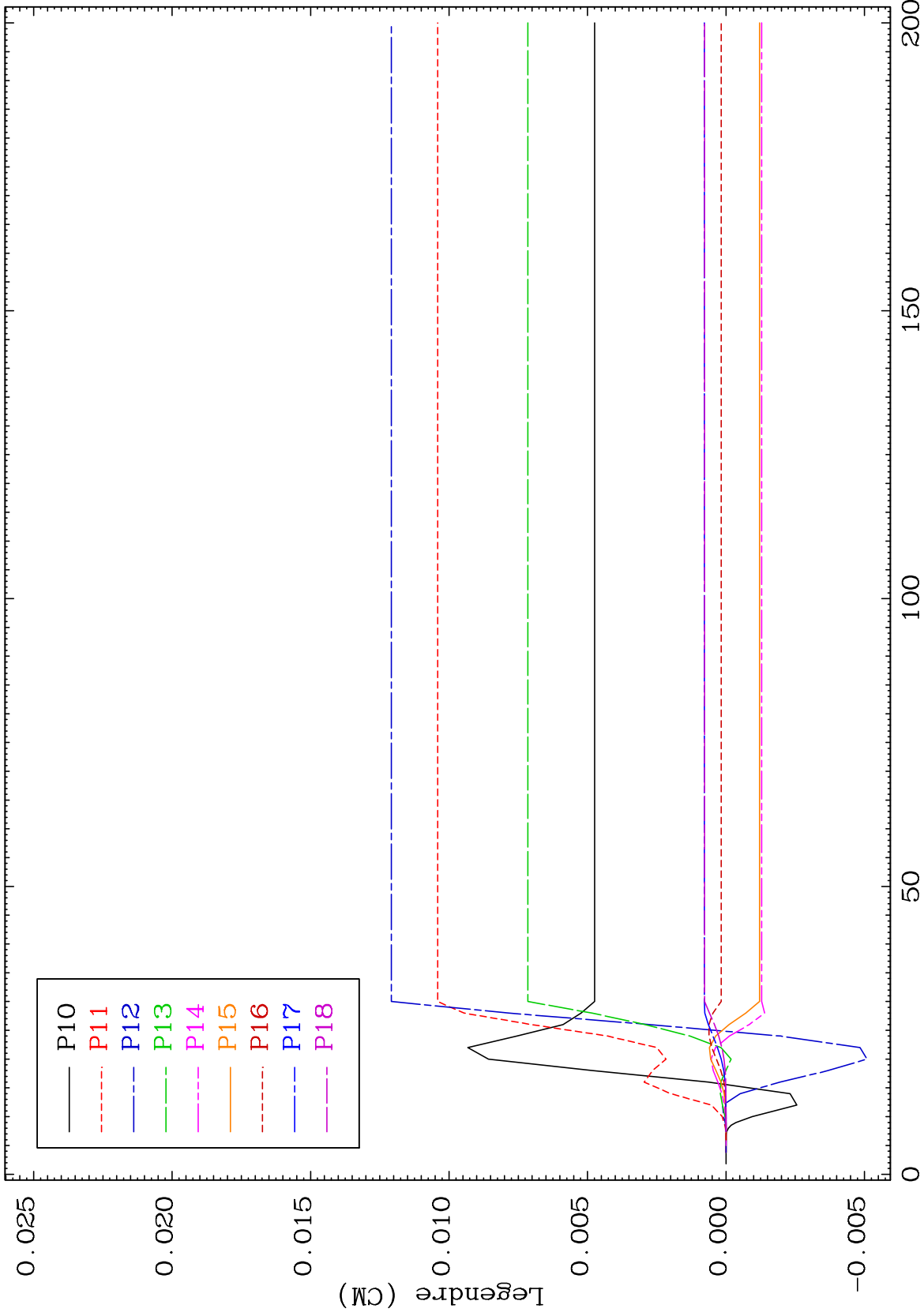
Incident Energy (MeV)

48

MAT 3452

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

34-Se-83



49

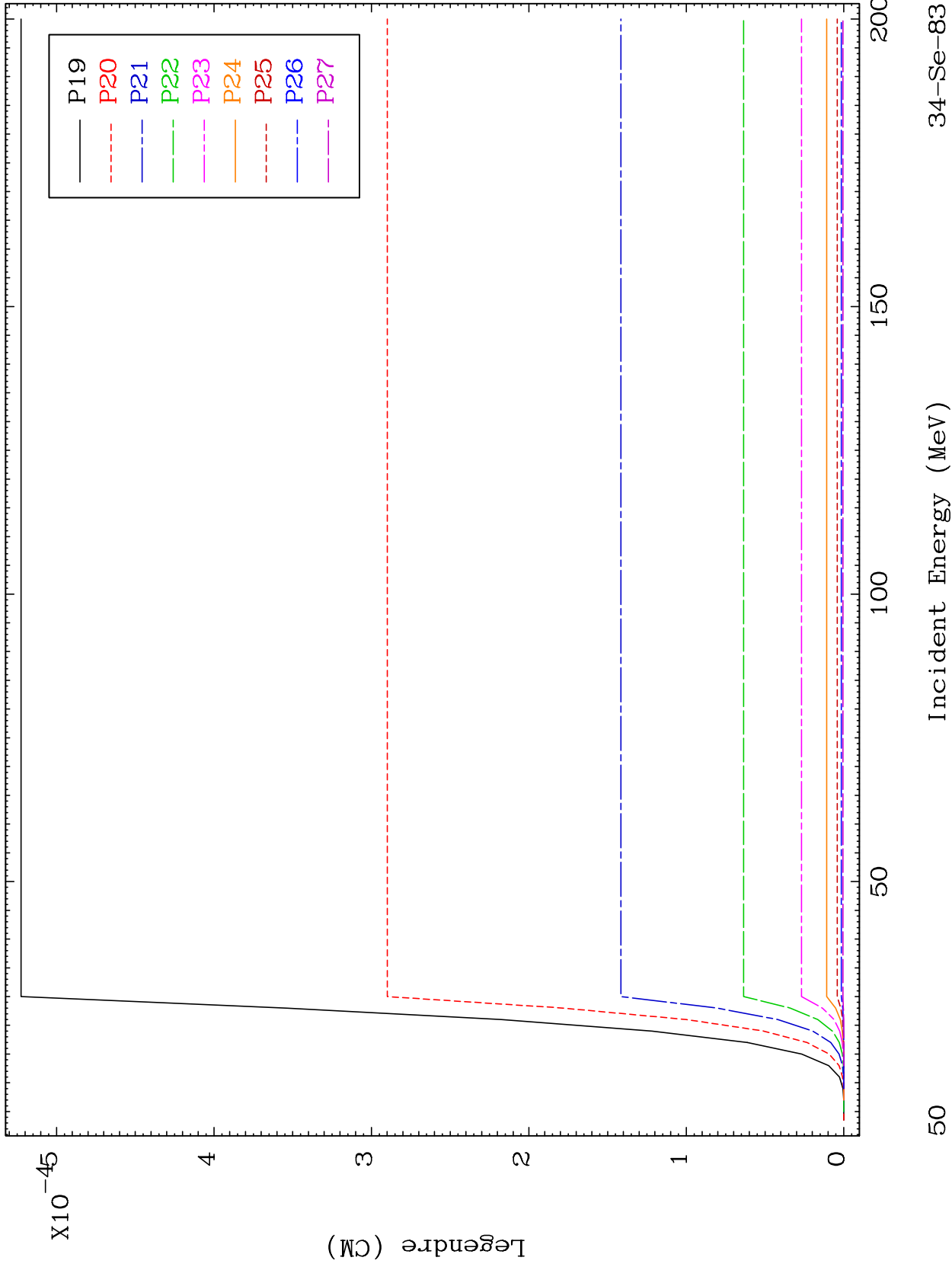
Incident Energy (MeV)

34-Se-83

MAT 3452

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

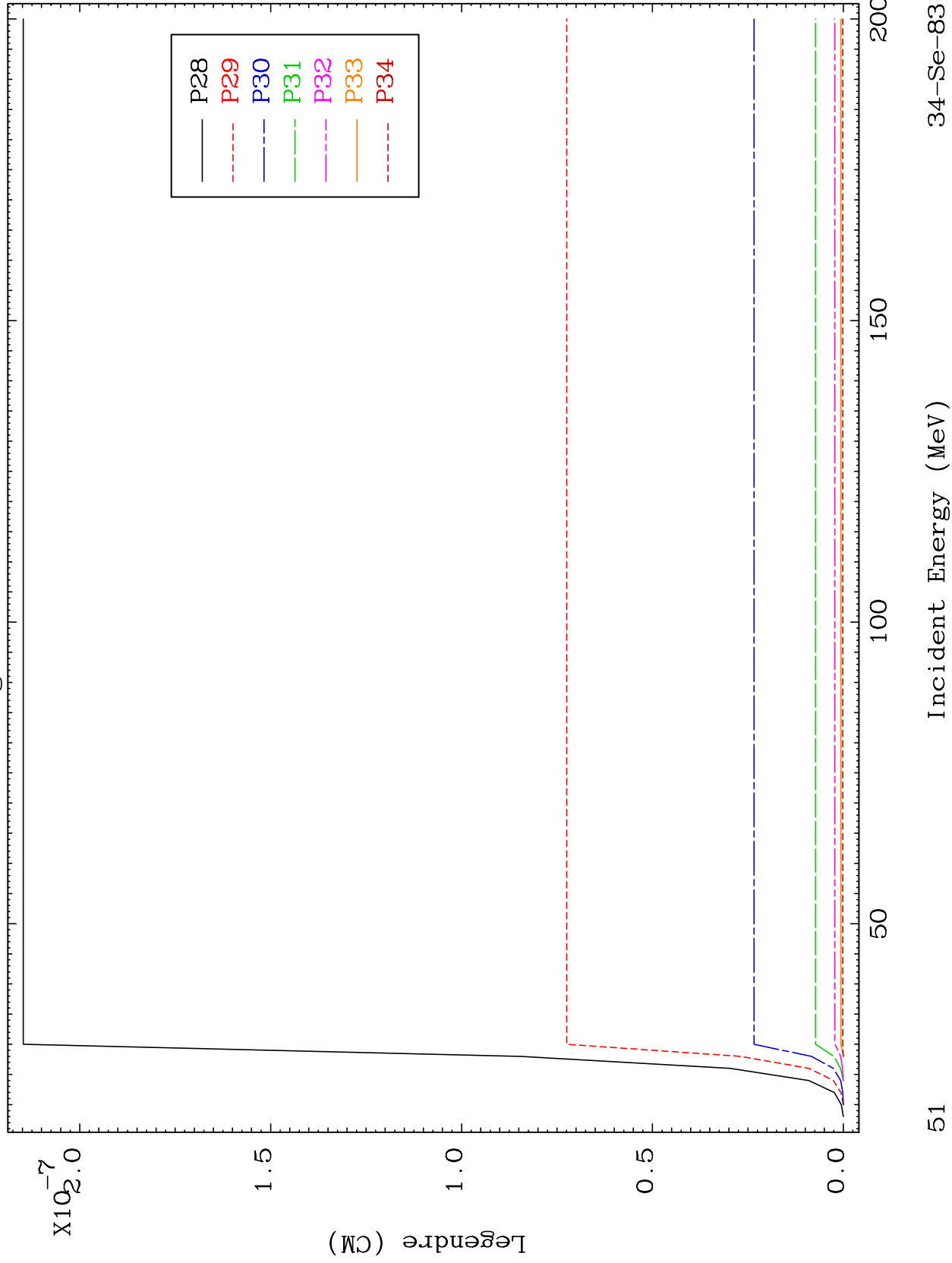
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



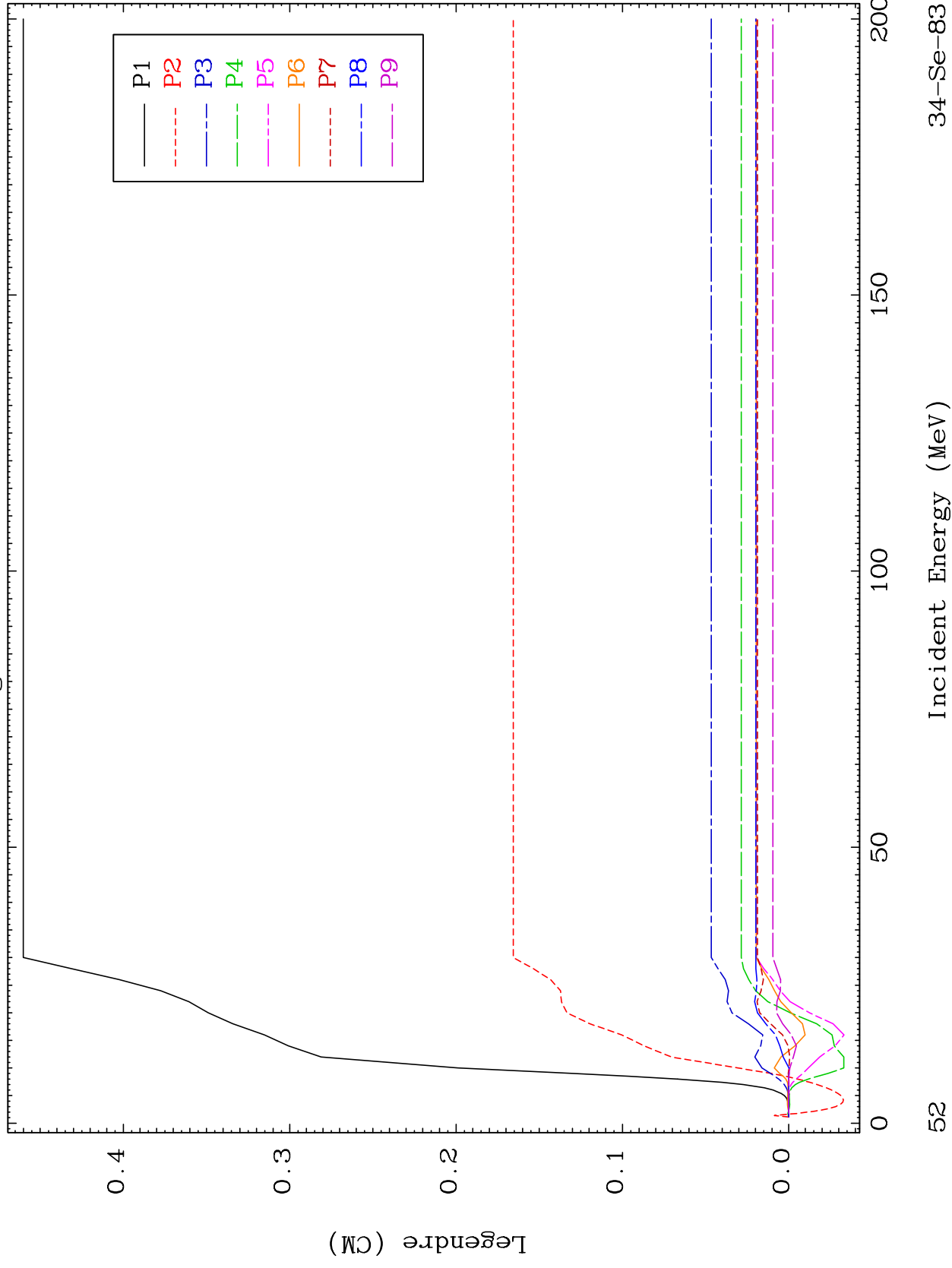
51

34-Se-83

MAT 3452

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

34-Se-83



34-Se-83

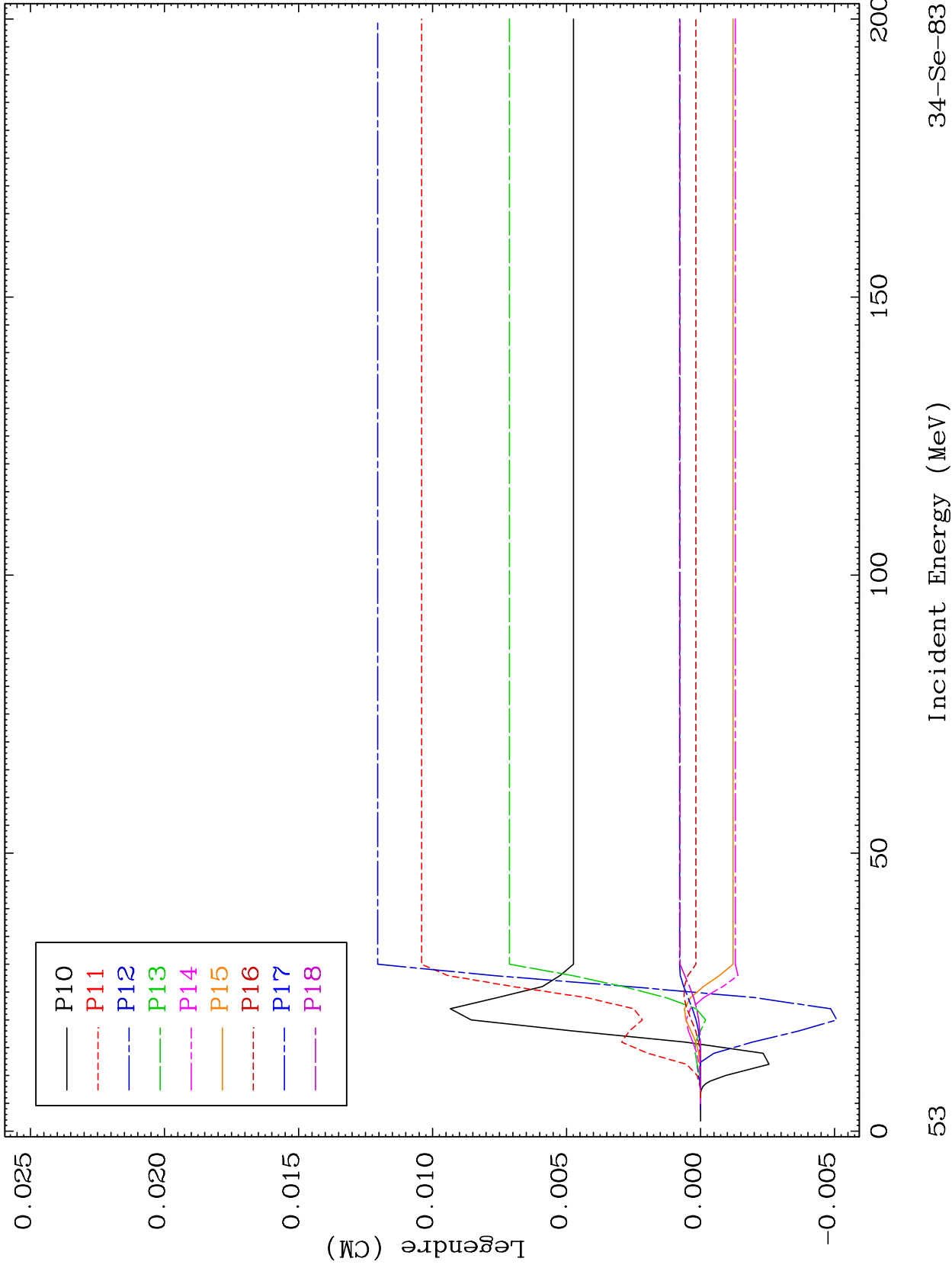
Incident Energy (MeV)

52

MAT 3452

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

34-Se-83



53

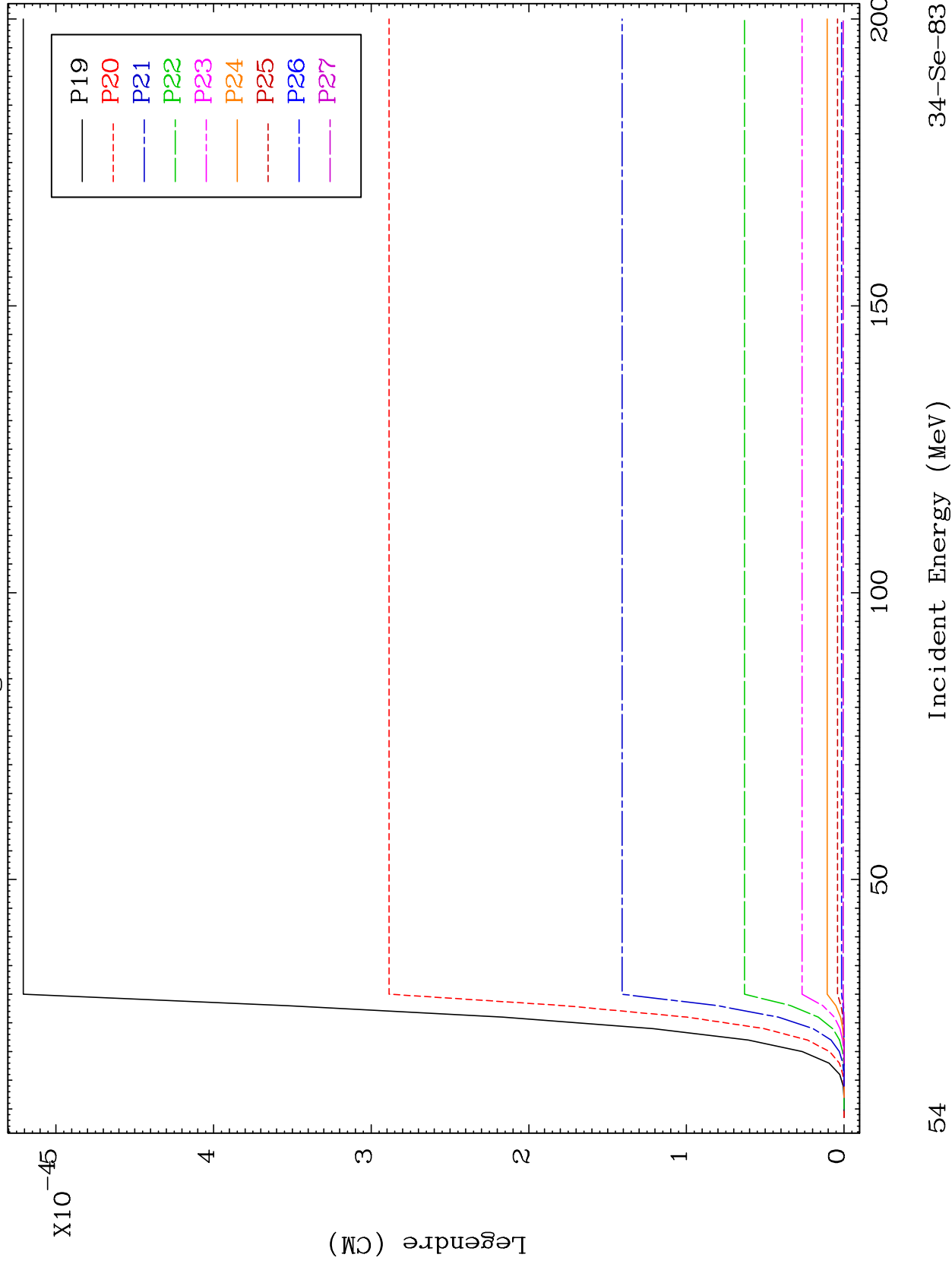
Incident Energy (MeV)

34-Se-83

MAT 3452

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

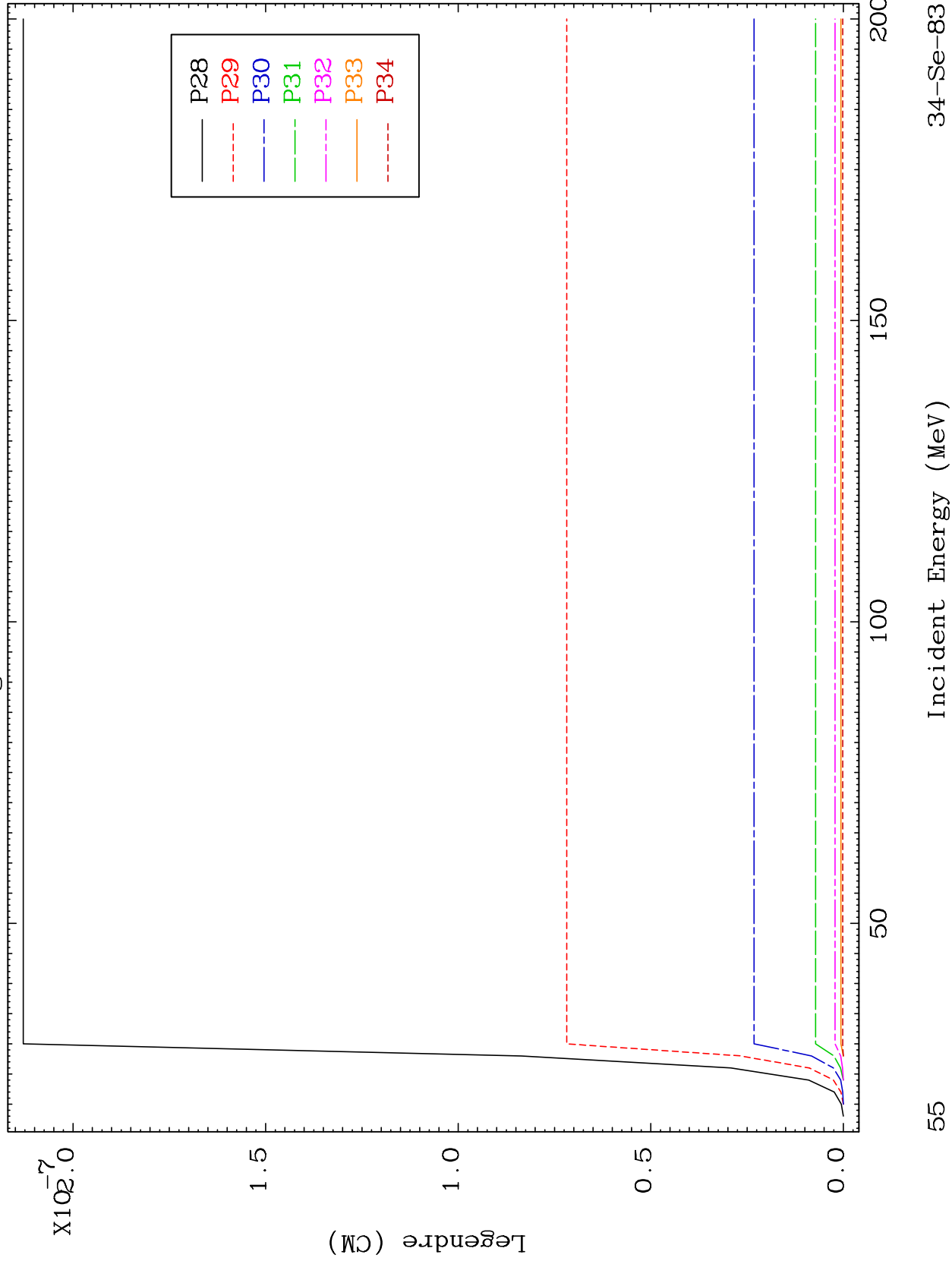
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



55

Incident Energy (MeV)

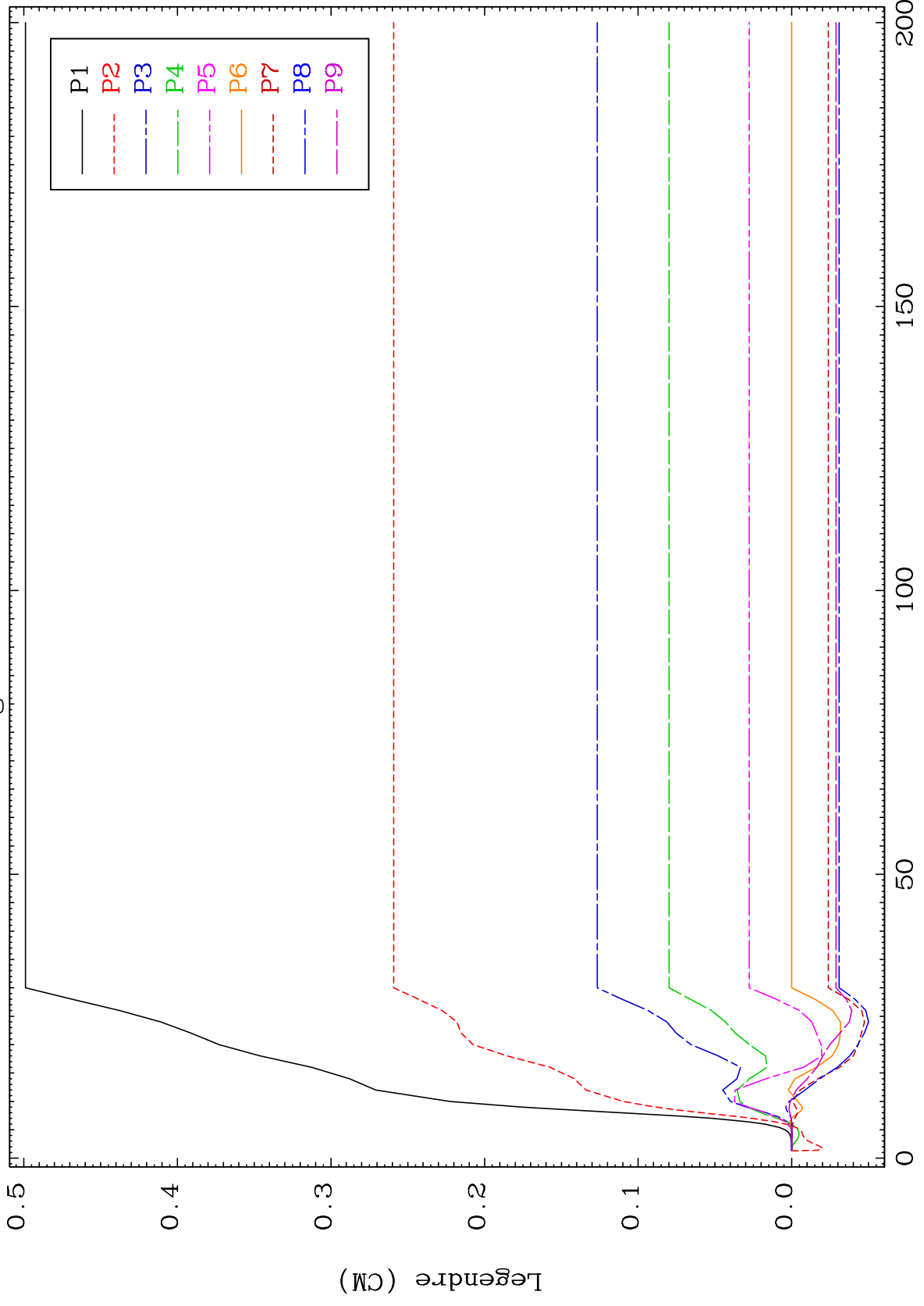
34-Se-83



MAT 3452

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

<sup>34</sup>Se-83



<sup>34</sup>Se-83

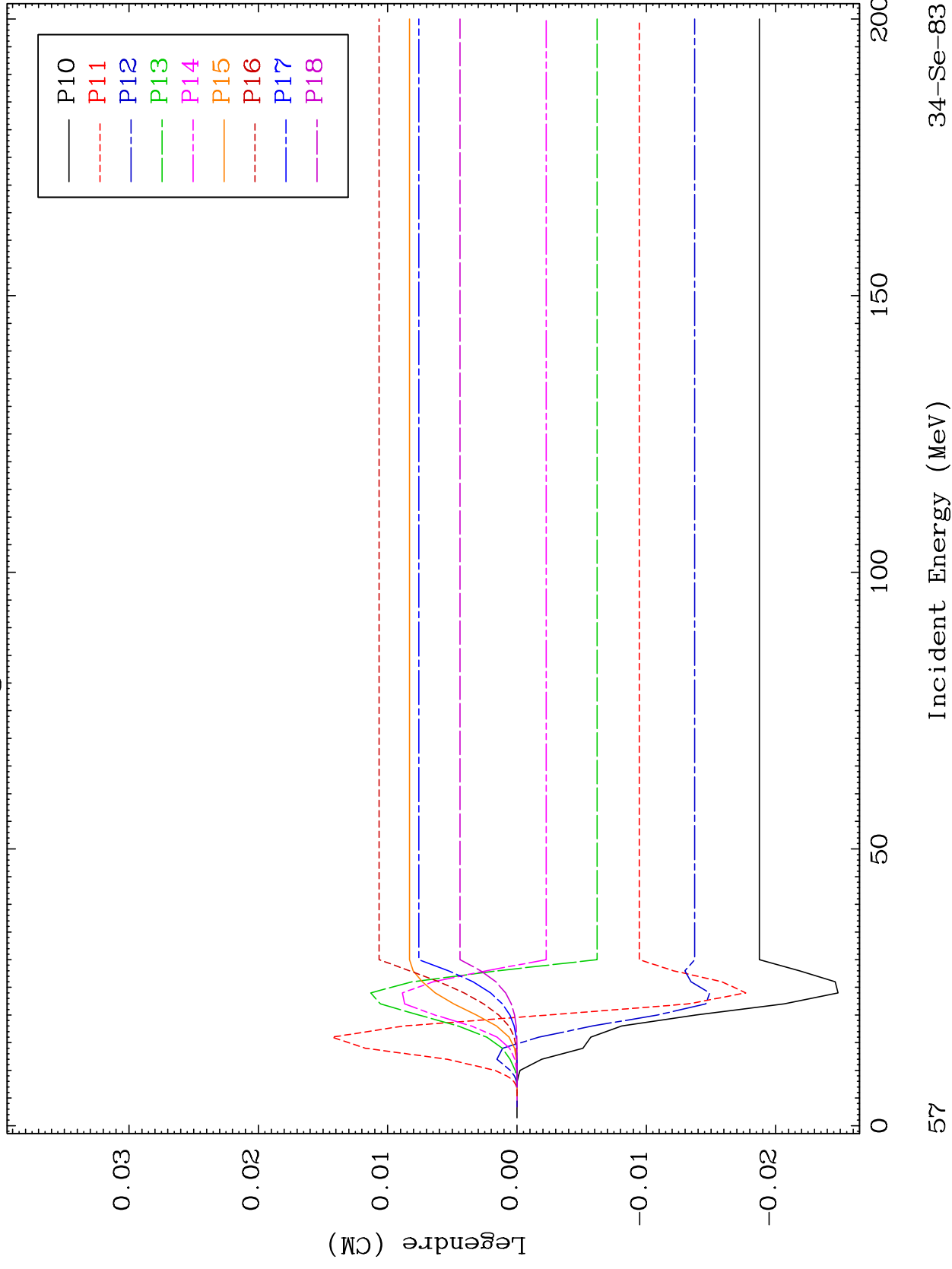
Incident Energy (MeV)

56

MAT 3452

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

34-Se-83



34-Se-83

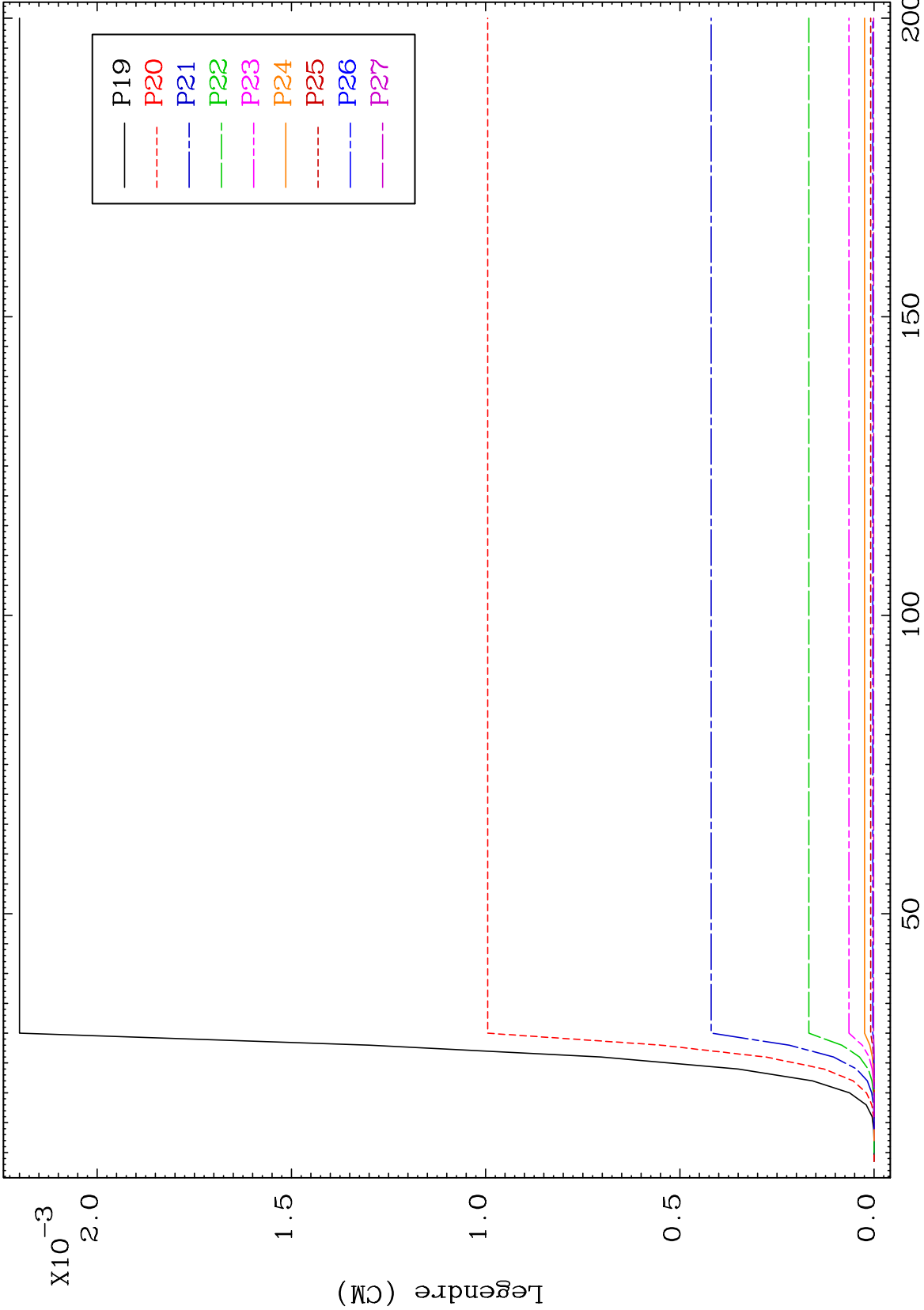
Incident Energy (MeV)

57

MAT 3452

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

<sup>34</sup>Se-83



58

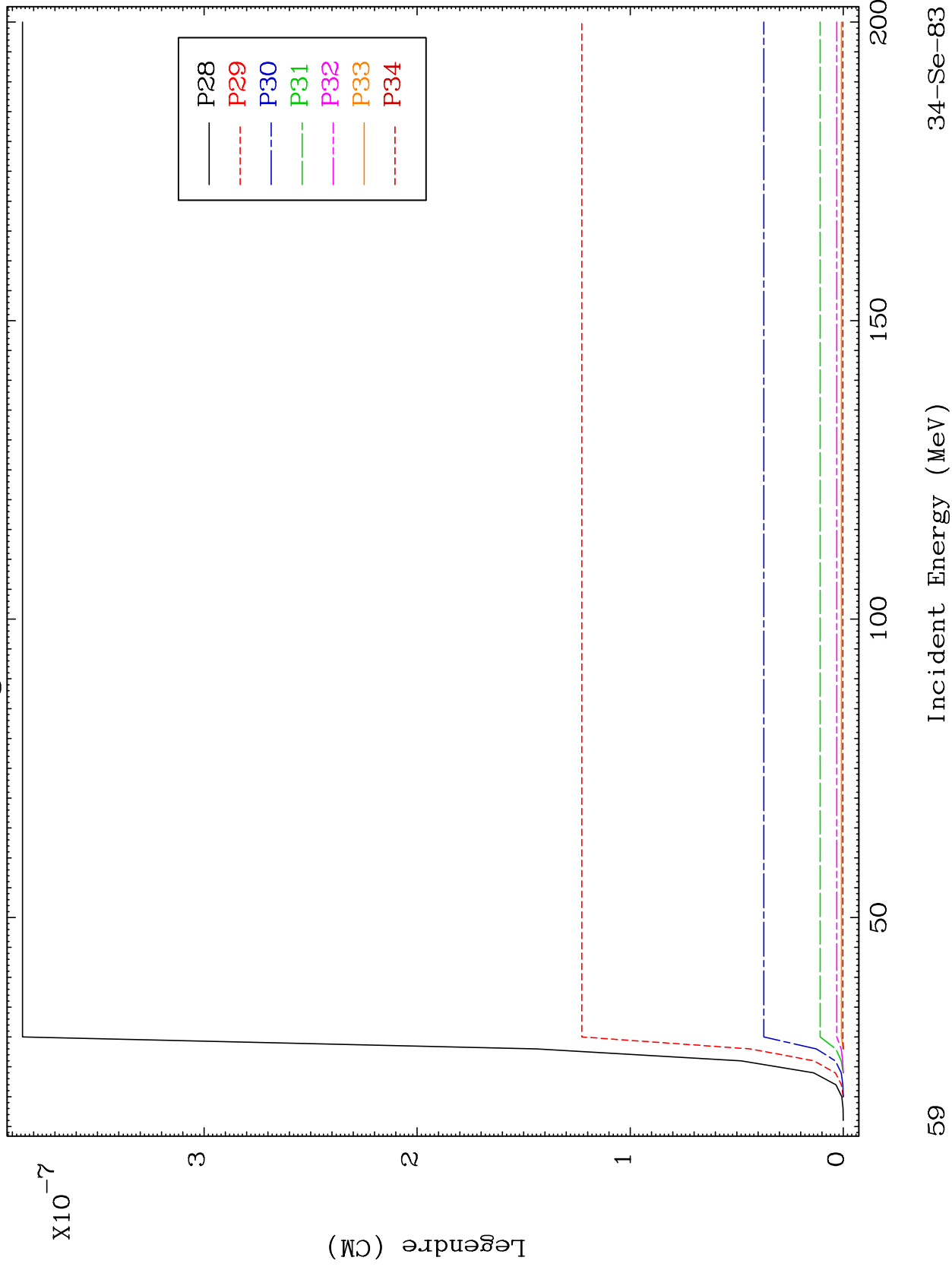
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



59

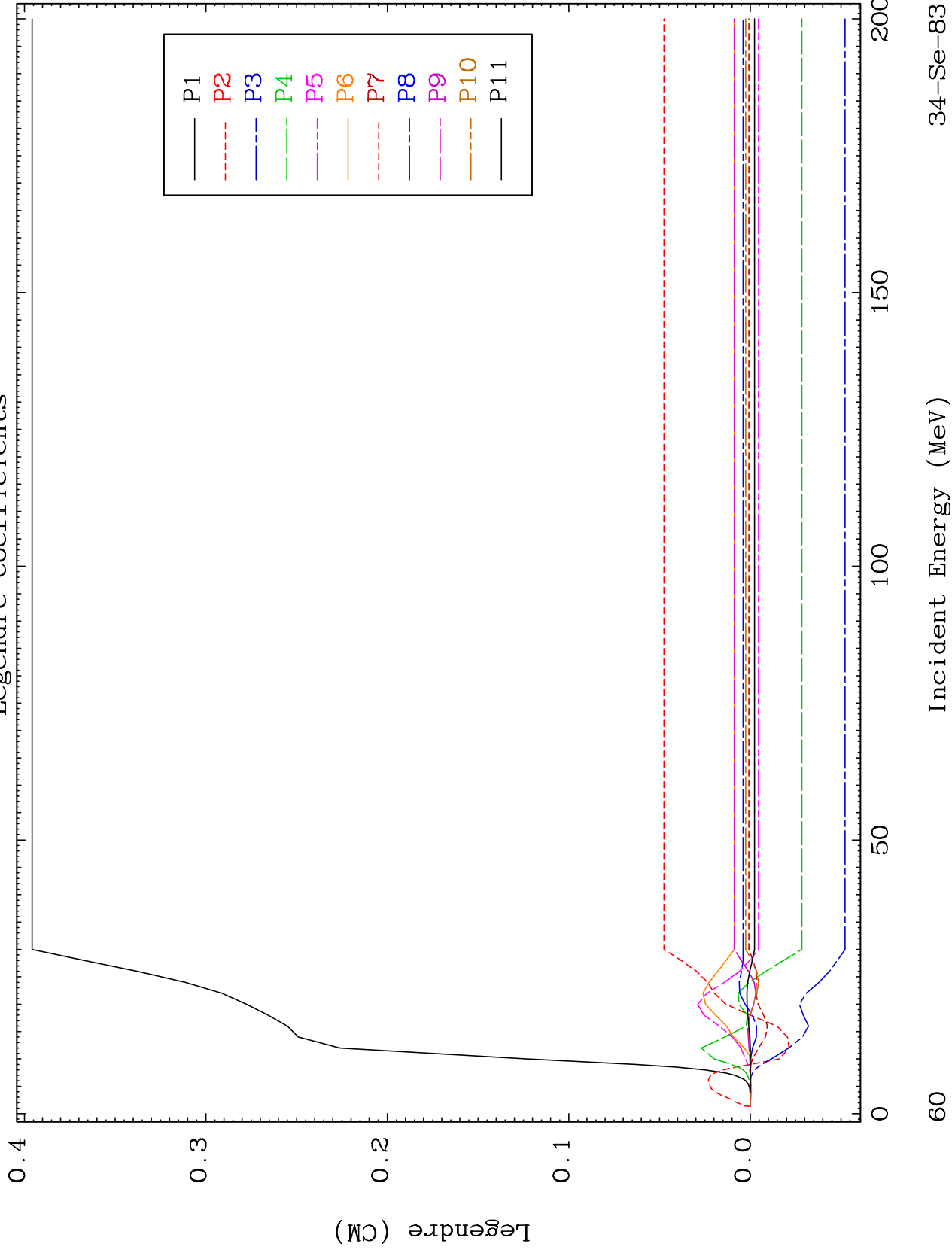
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



<sup>34</sup>Se-83

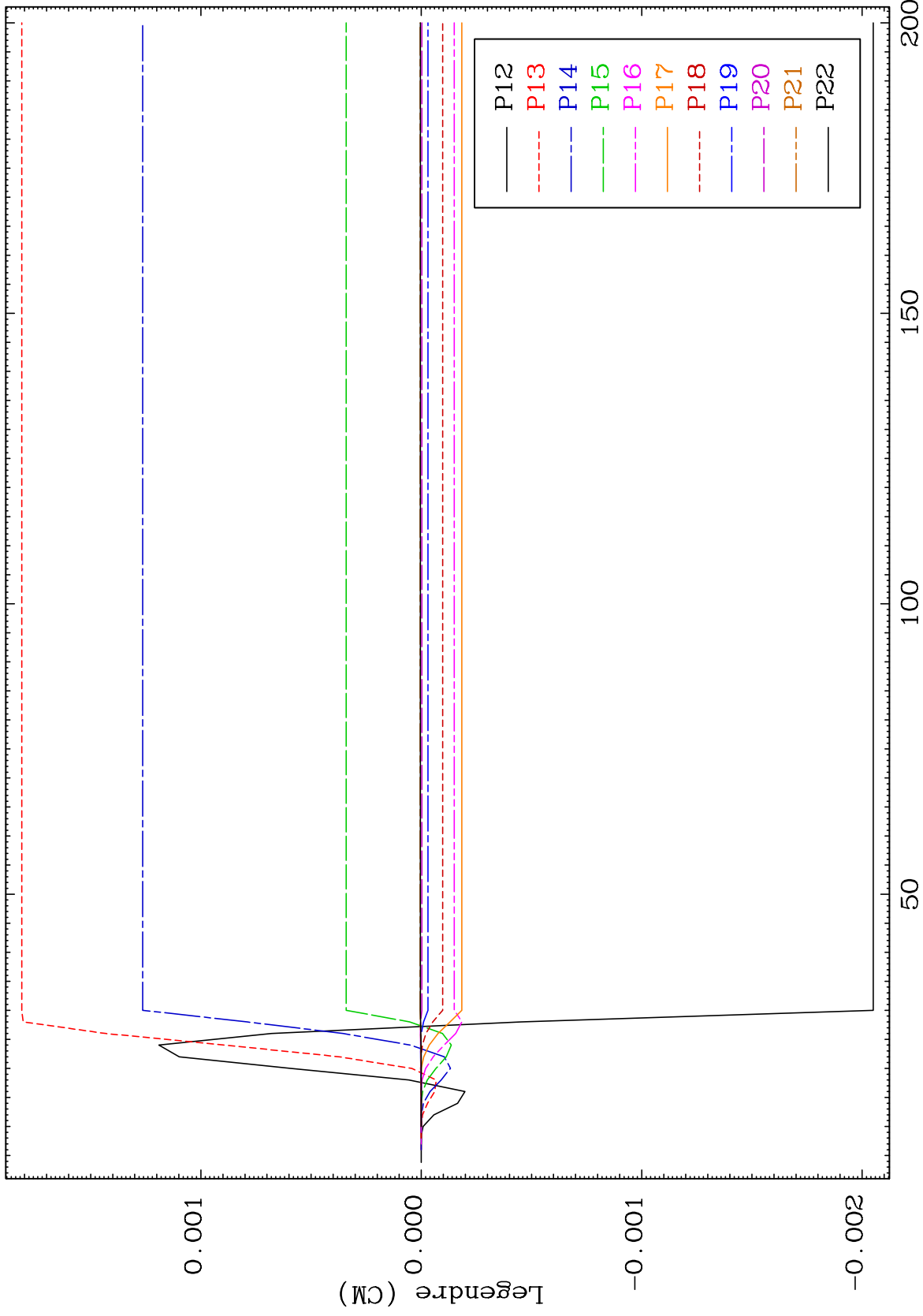
Incident Energy (MeV)

60

MAT 3452

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

34-Se-83



61

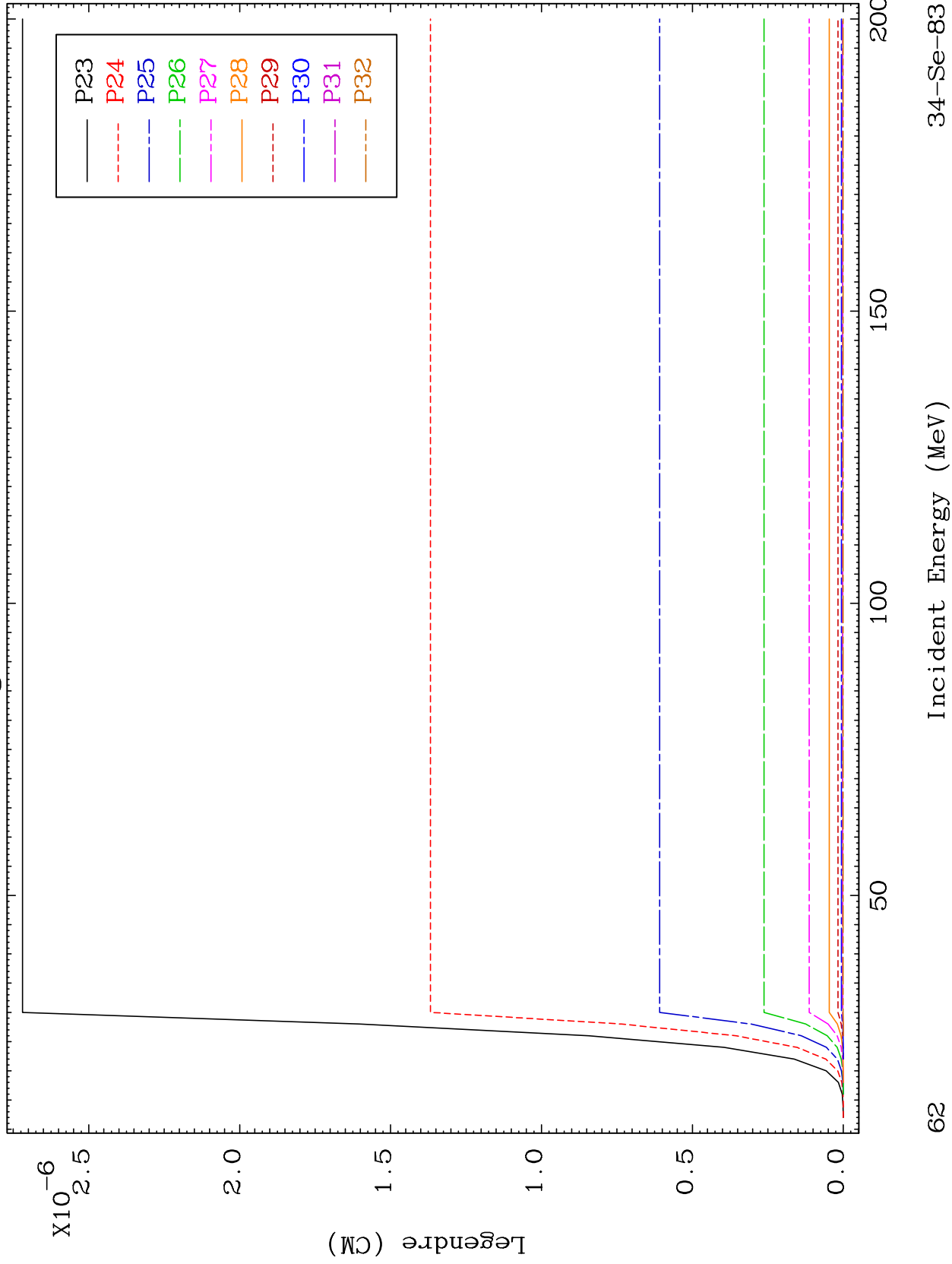
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



62

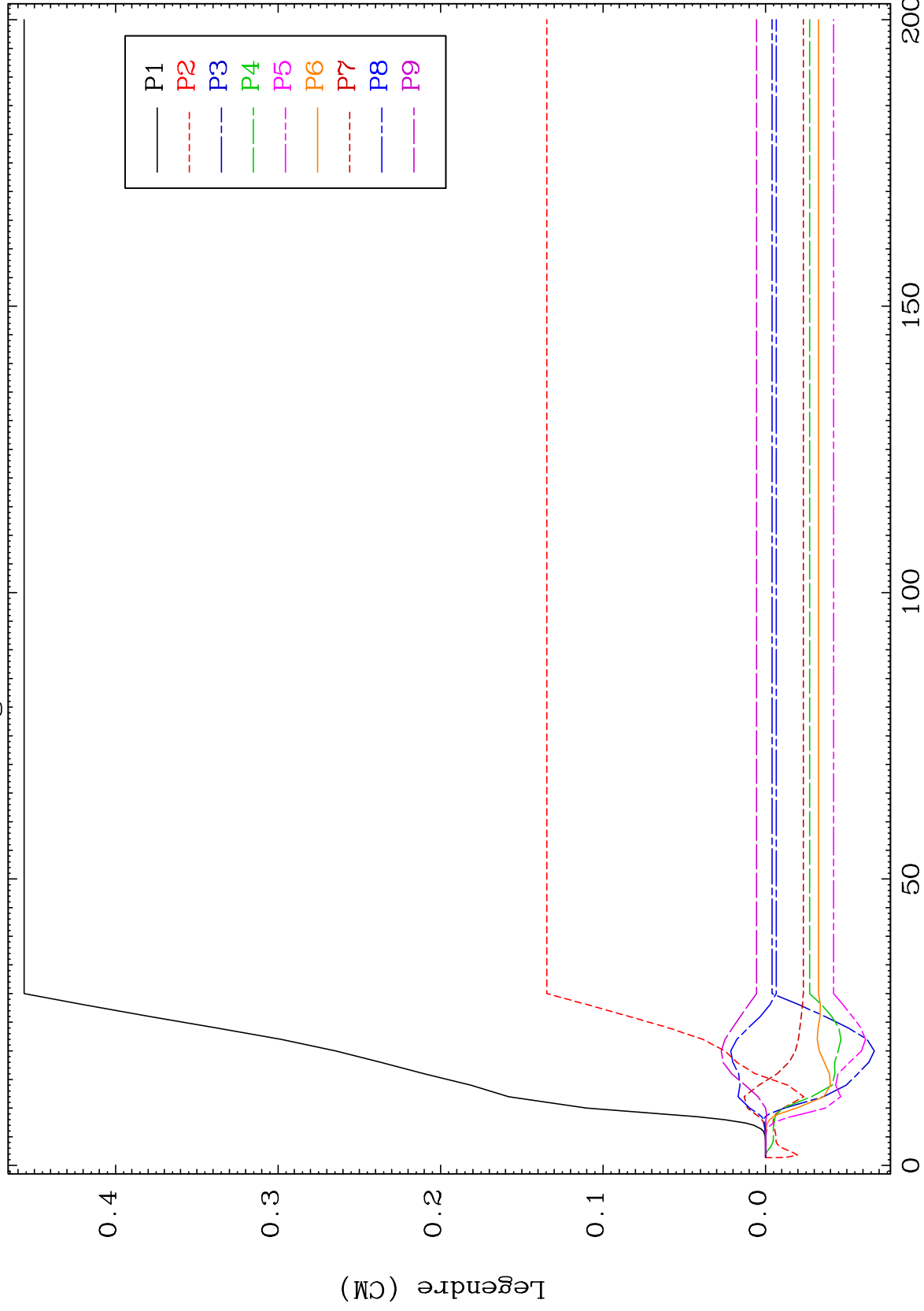
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



63

Incident Energy (MeV)

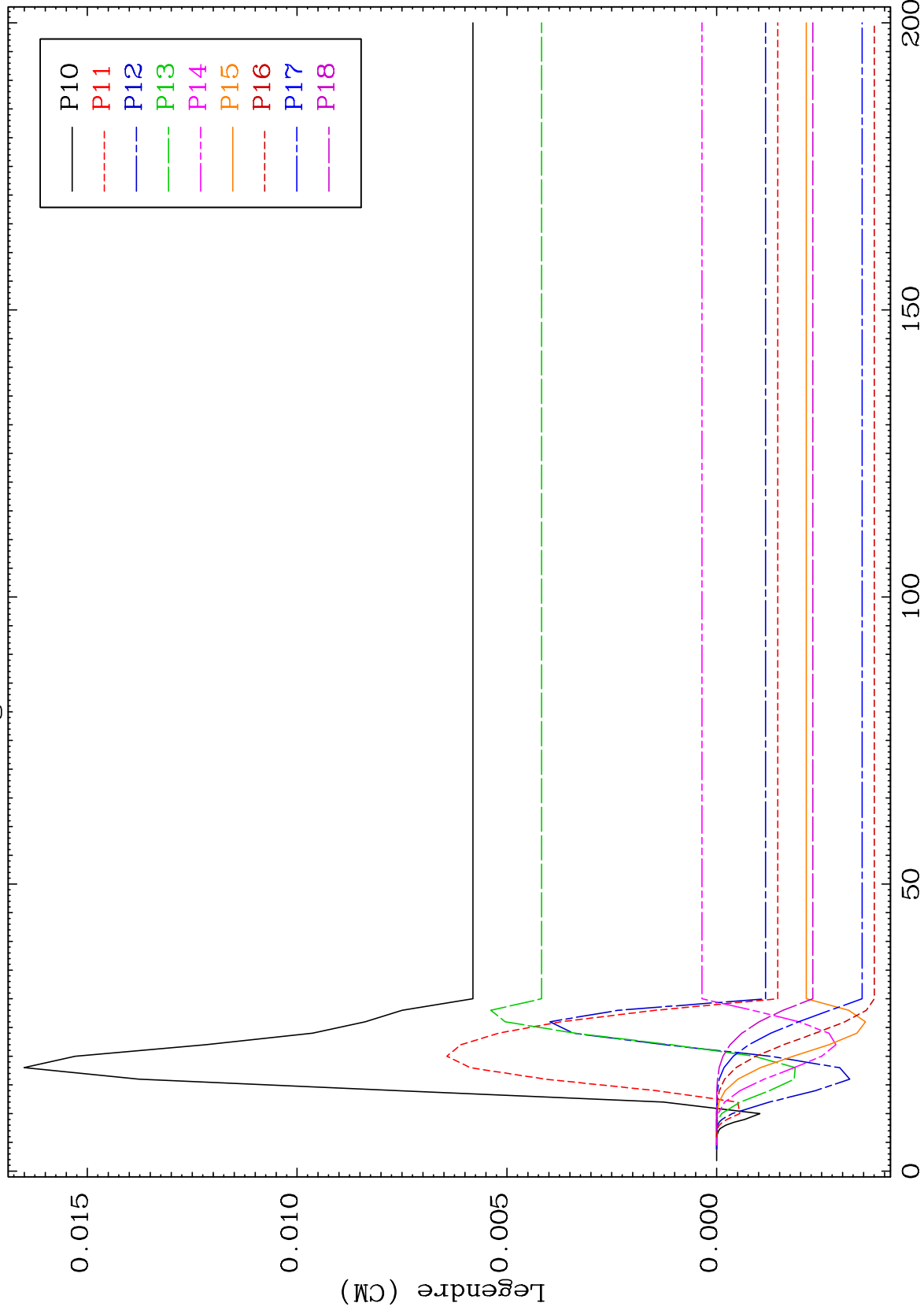
<sup>34</sup>Se-83



MAT 3452

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

<sup>34</sup>Se-83



64

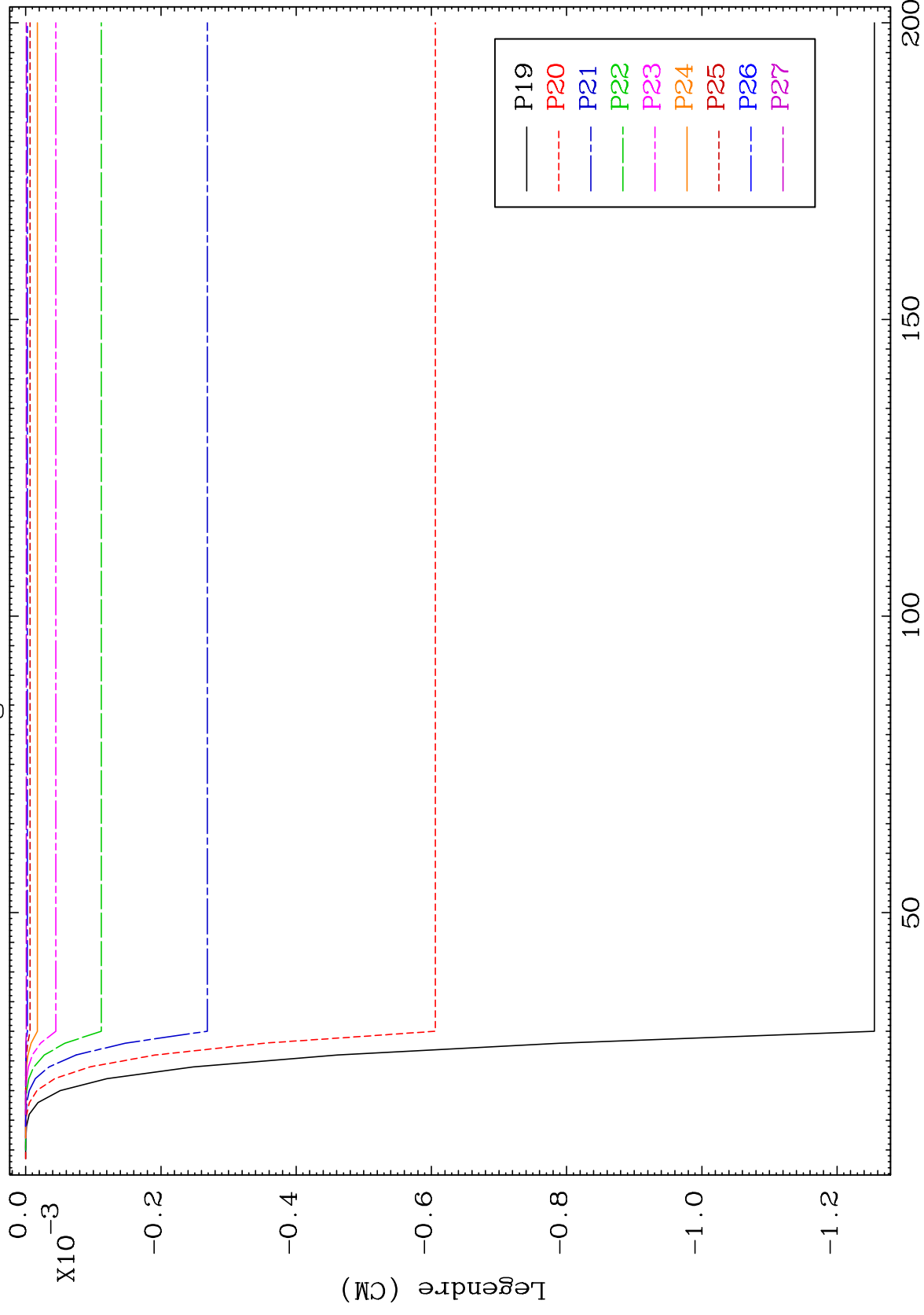
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



65

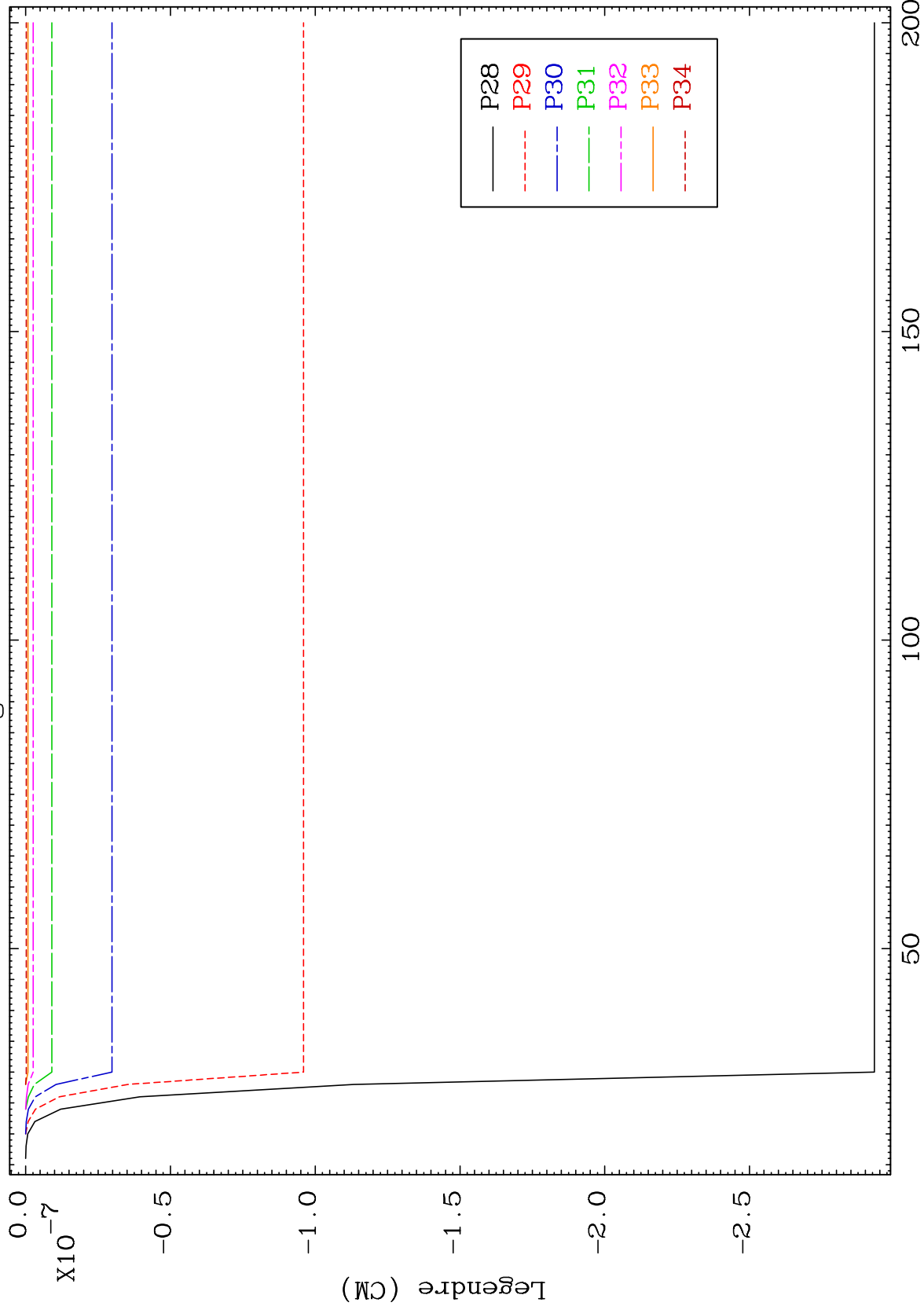
Incident Energy (MeV)

34-Se-83

MAT 3452

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

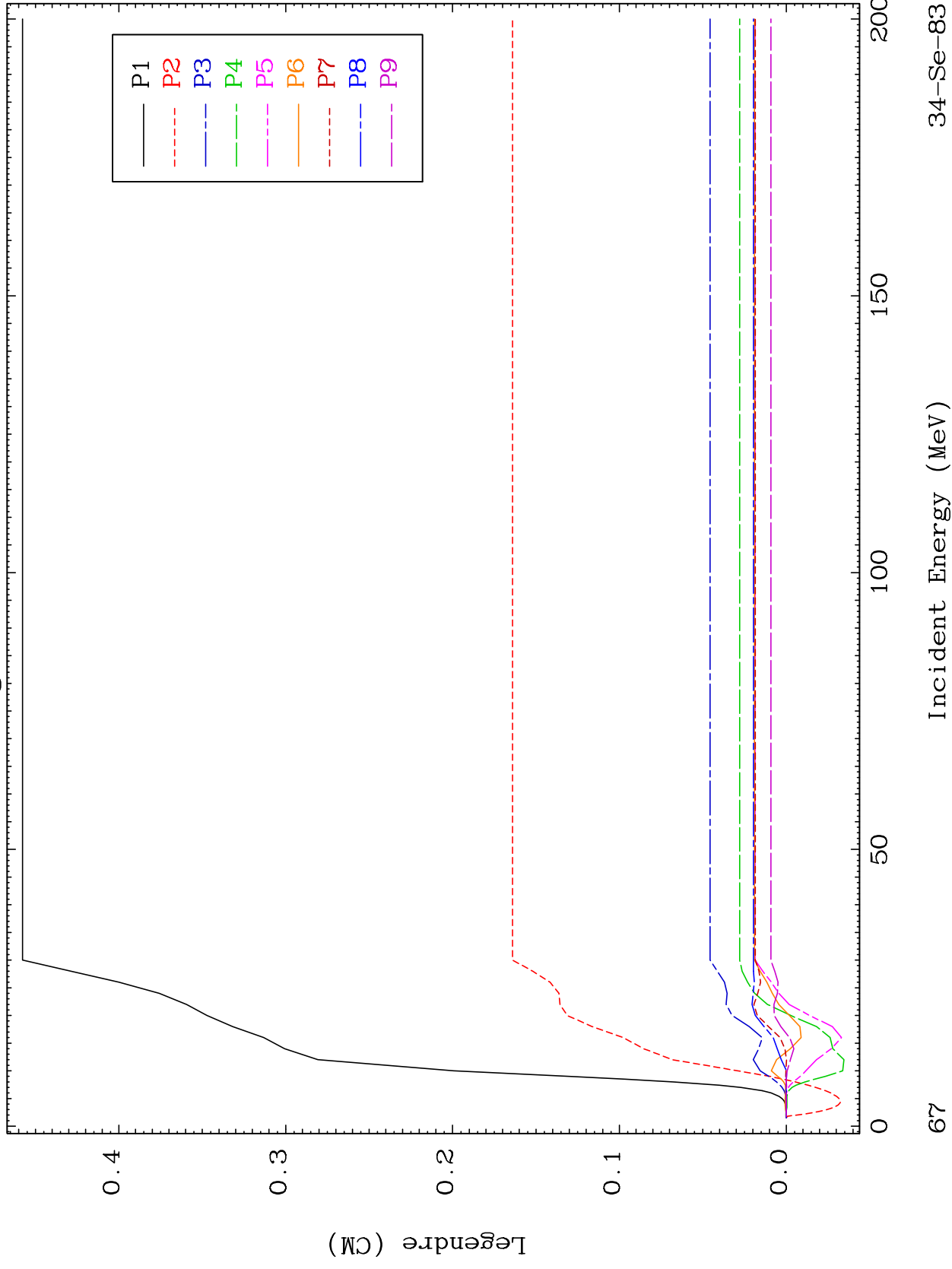
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



34-Se-83

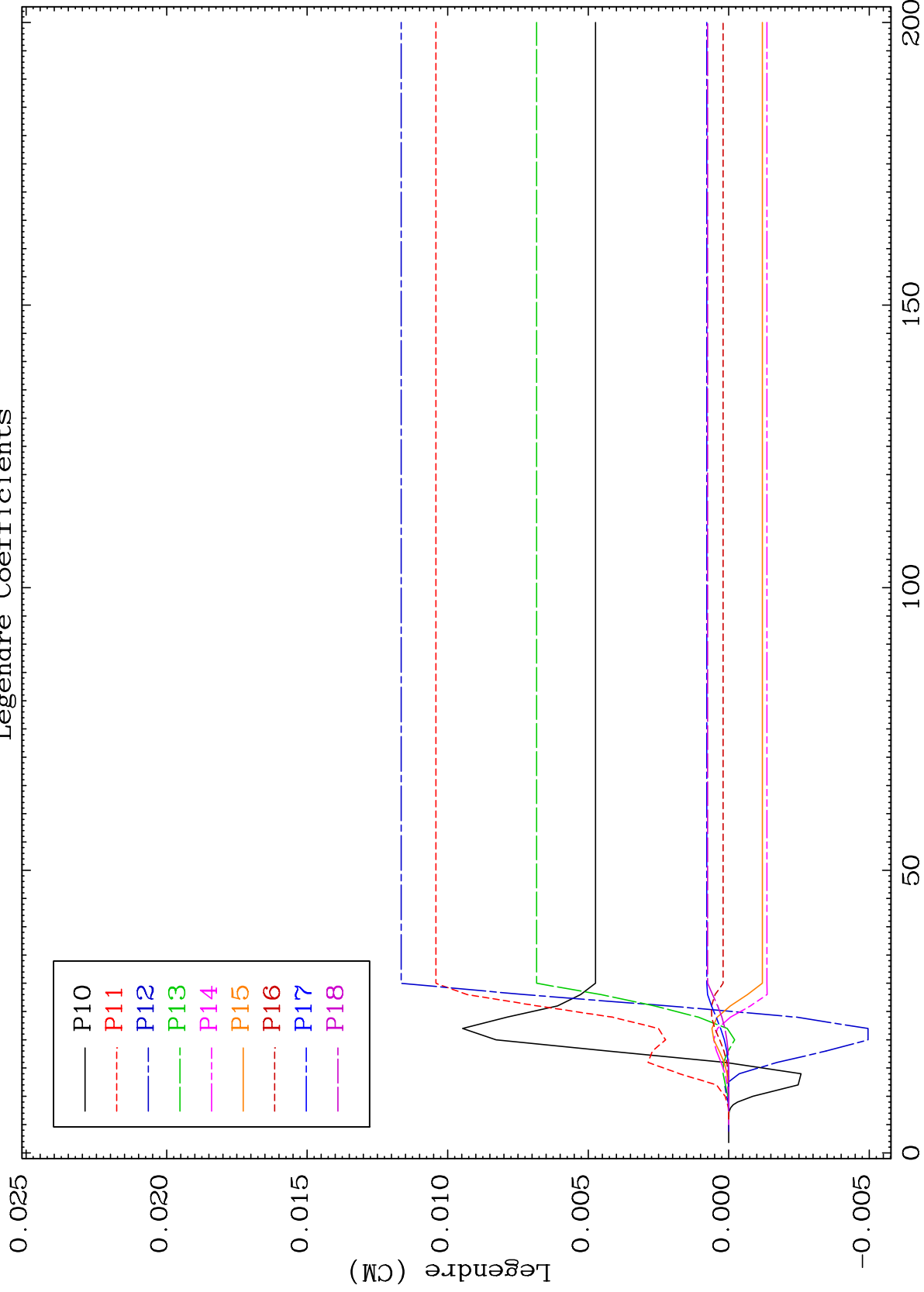
Incident Energy (MeV)

67

MAT 3452

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

34-Se-83



68

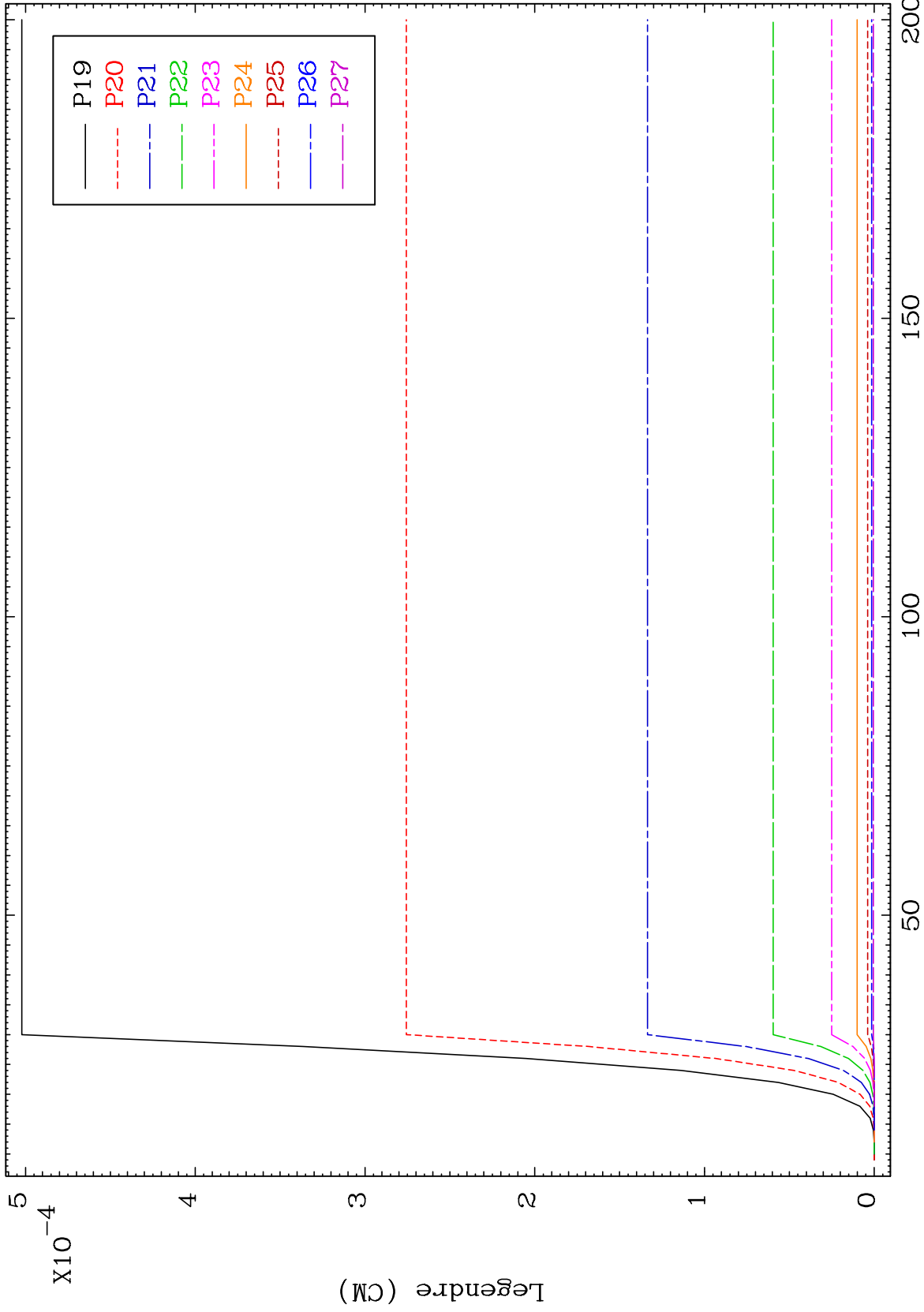
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



69

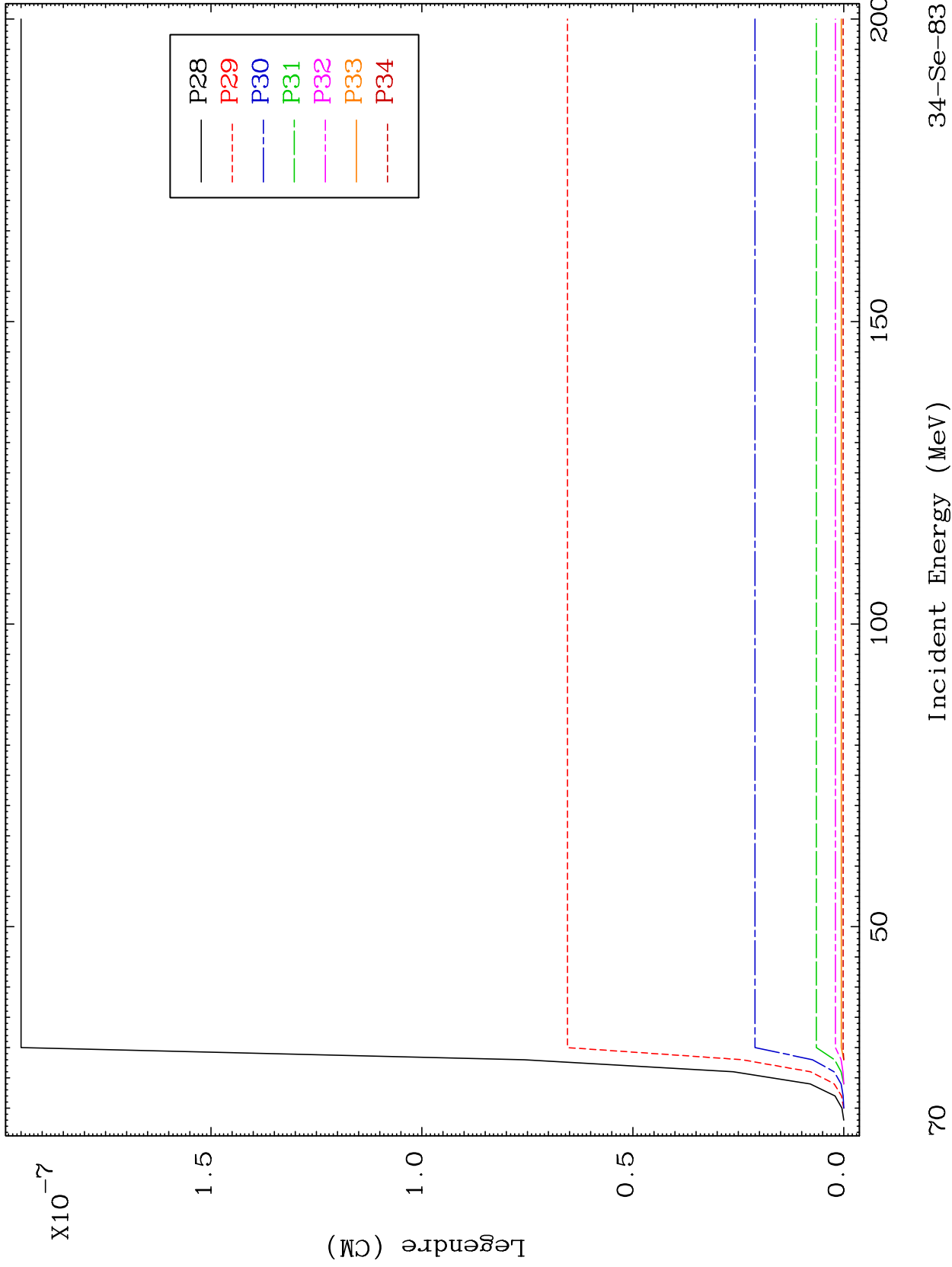
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



70

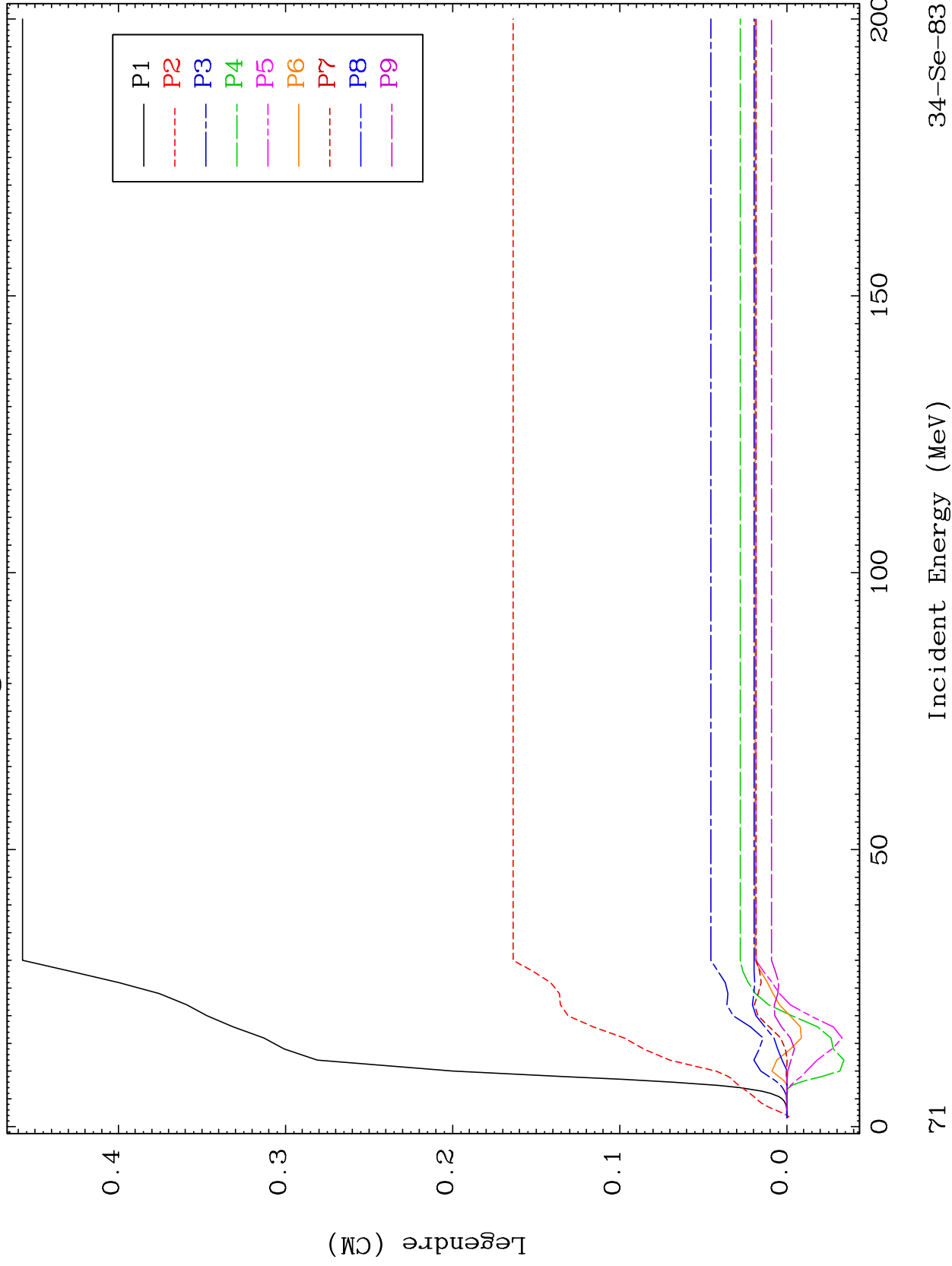
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



34-Se-83

Incident Energy (MeV)

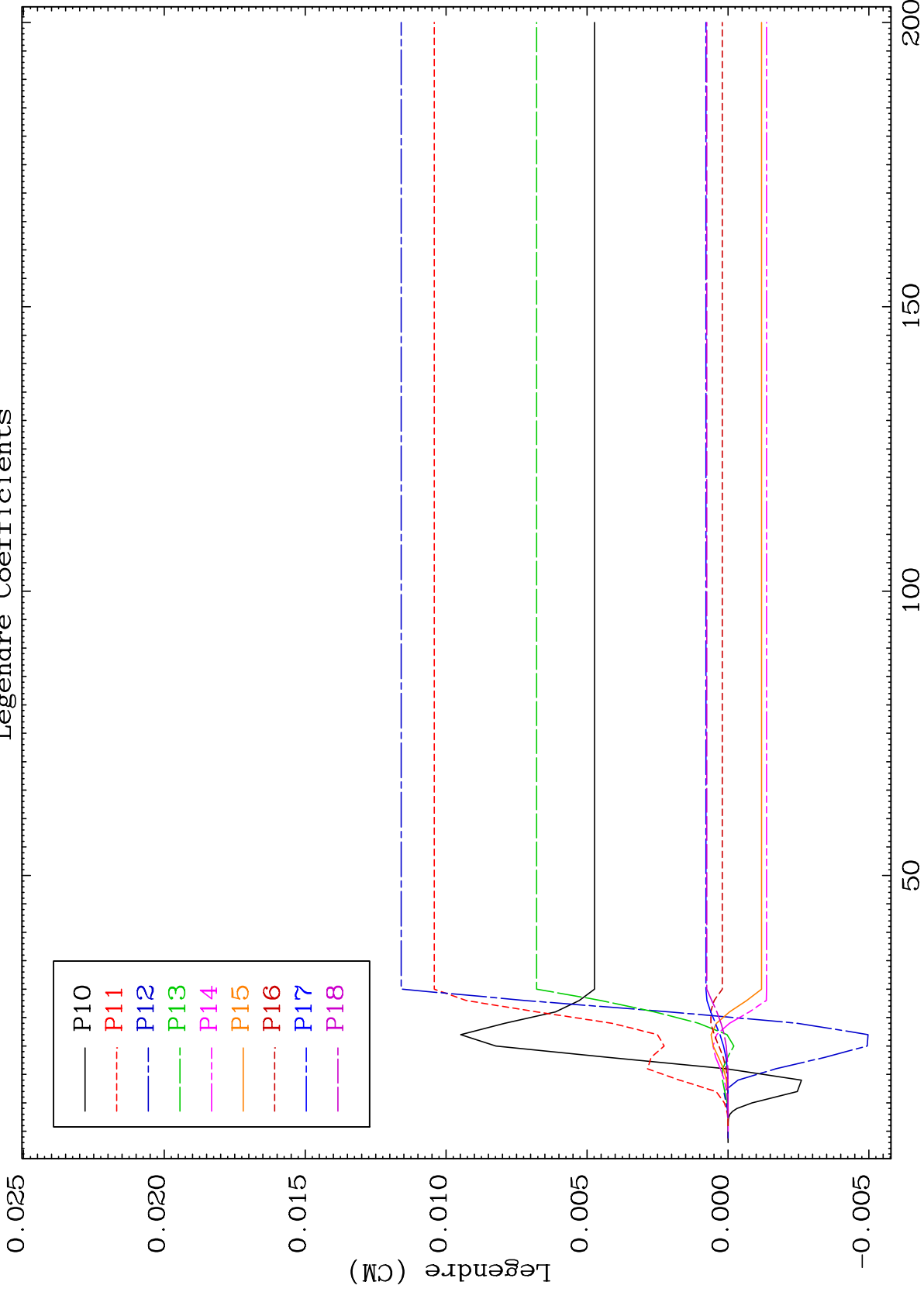
71



MAT 3452

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

34-Se-83



72

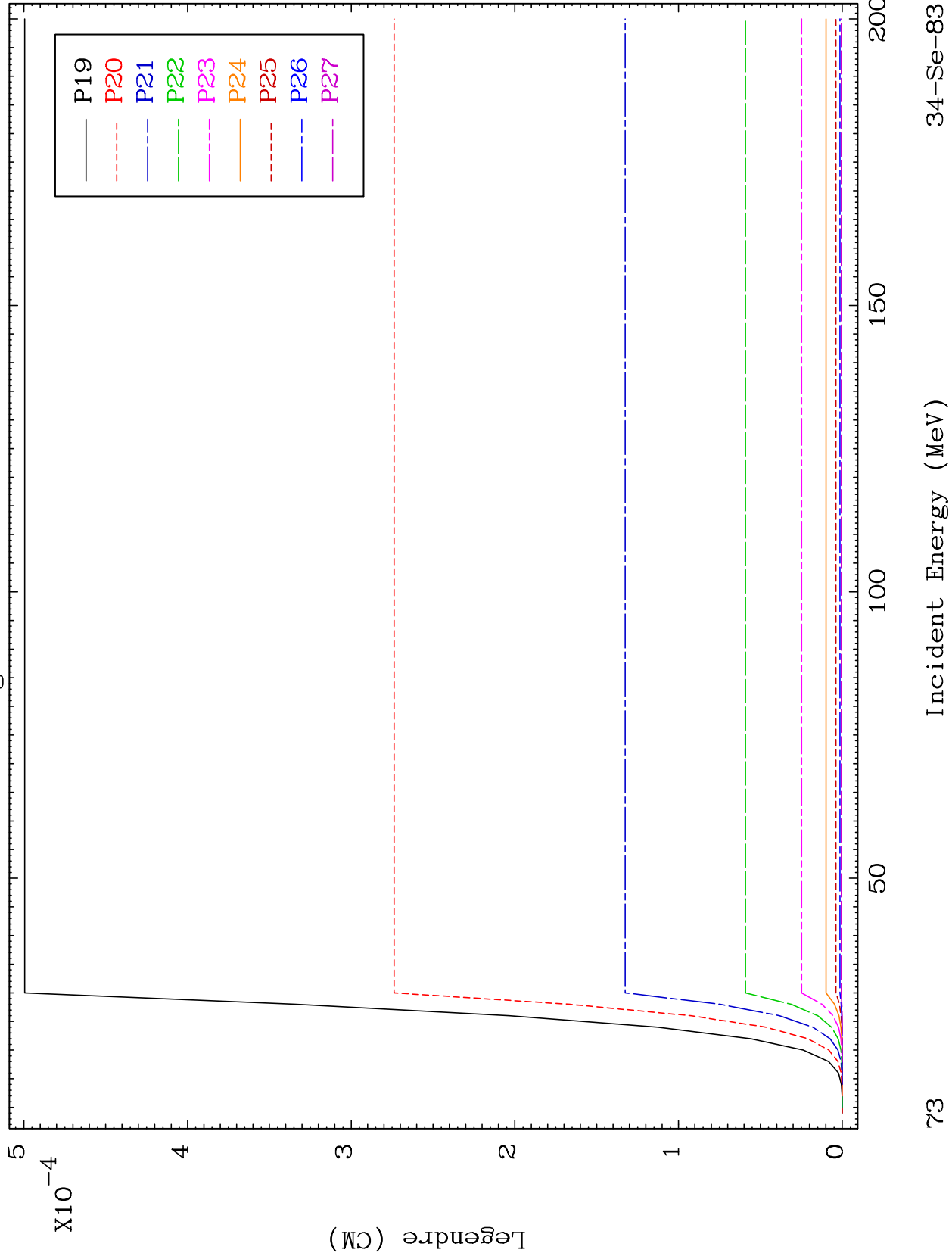
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



73

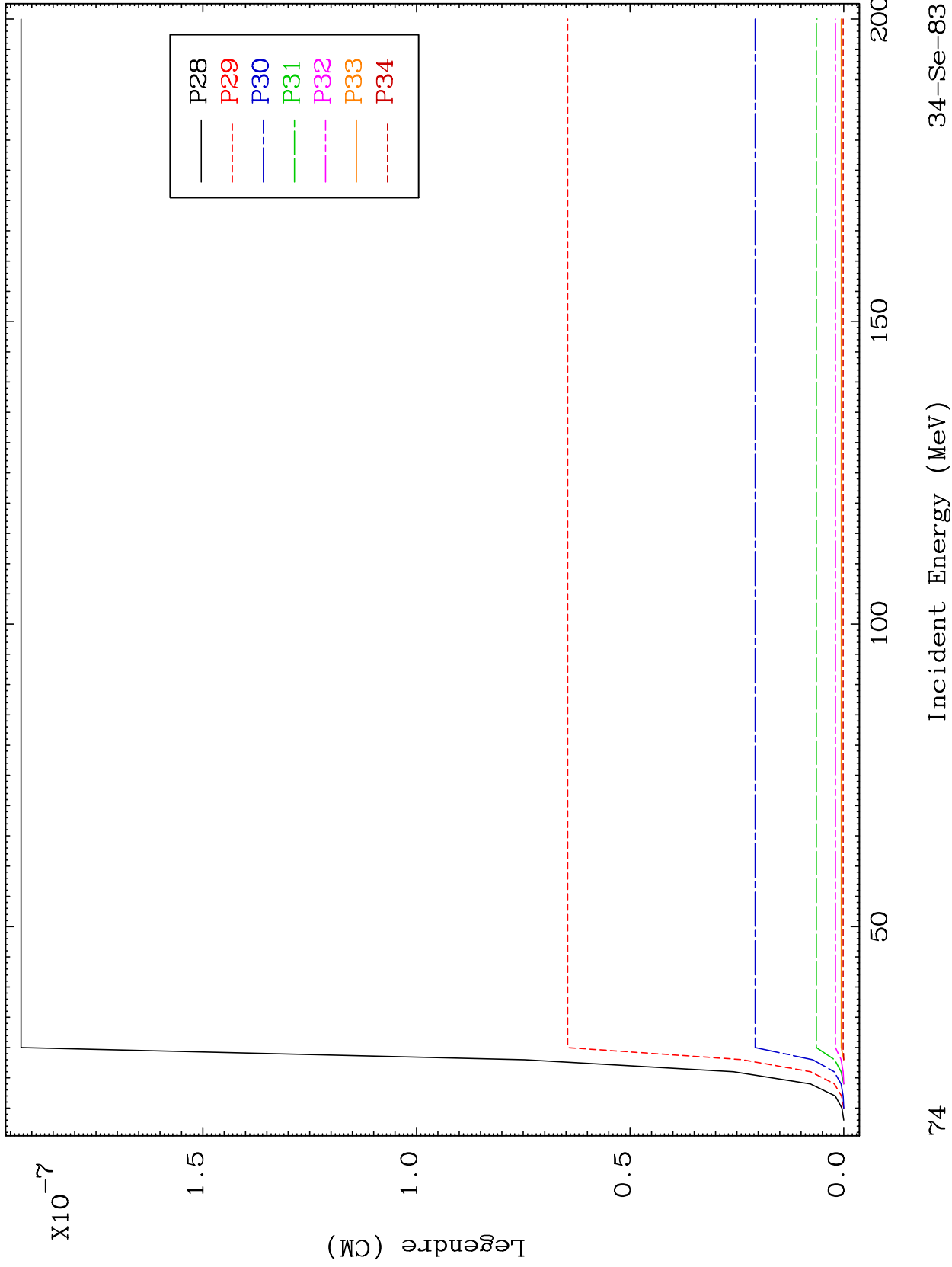
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

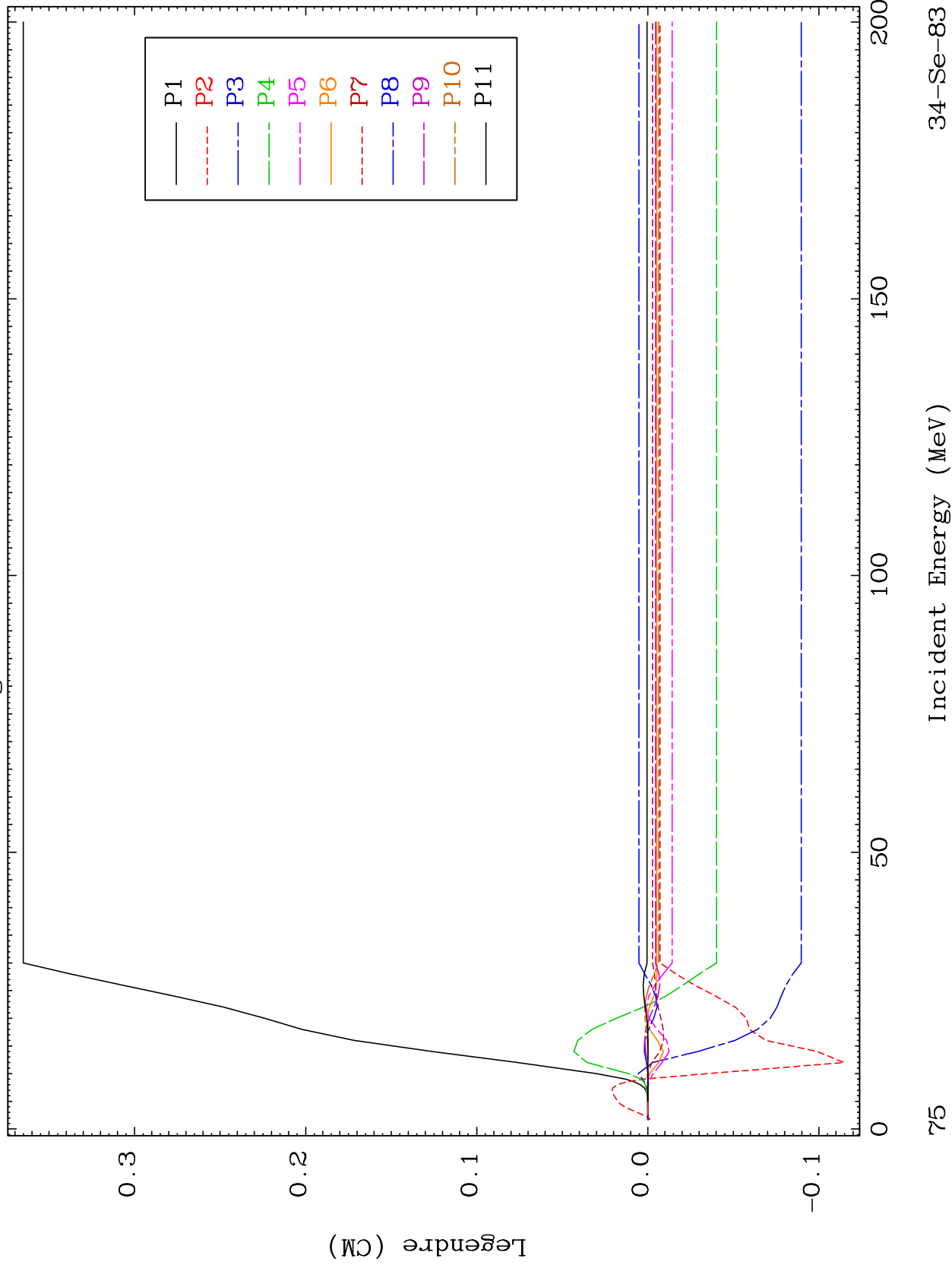
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



34-Se-83

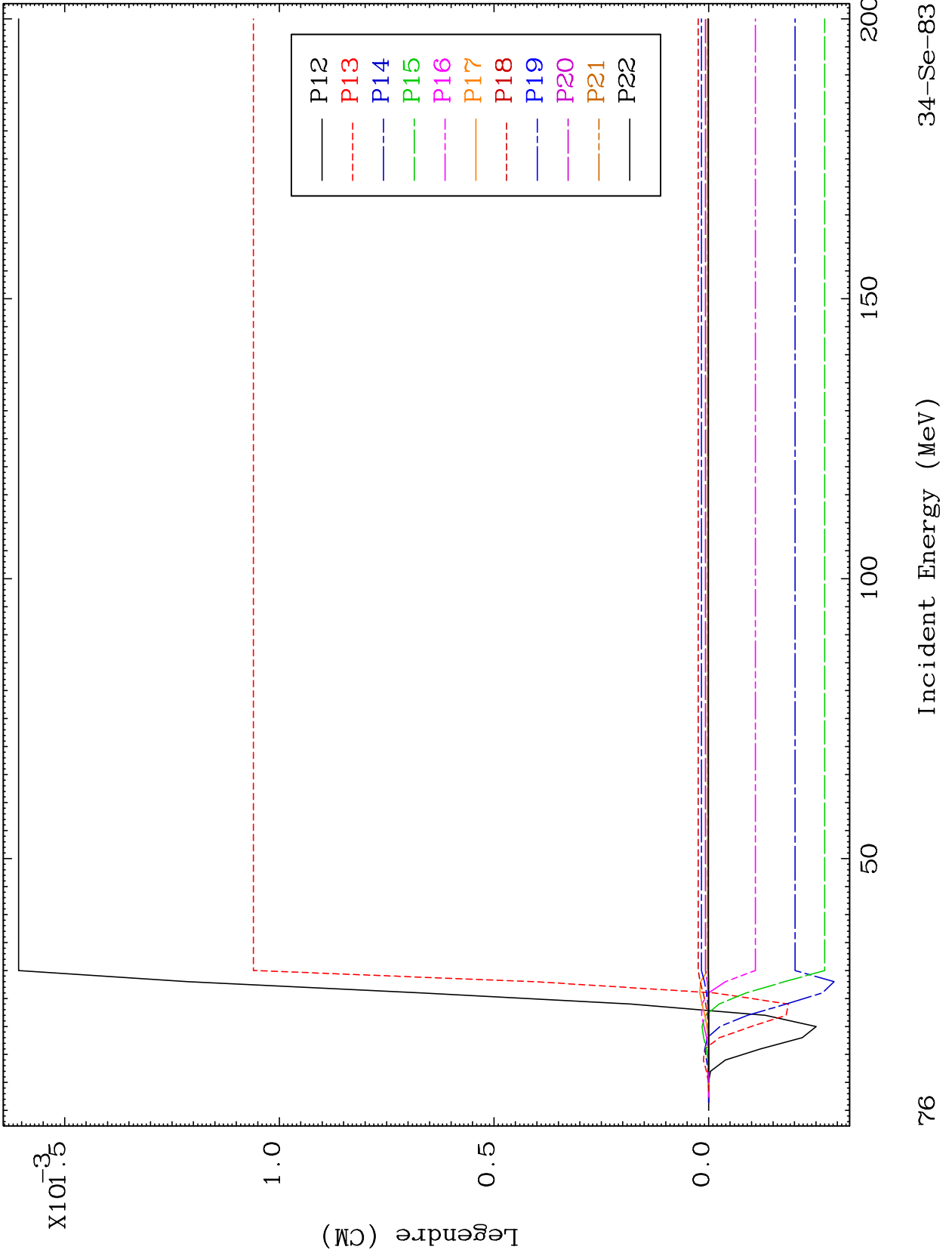
Incident Energy (MeV)

75

MAT 3452

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

34-Se-83



76

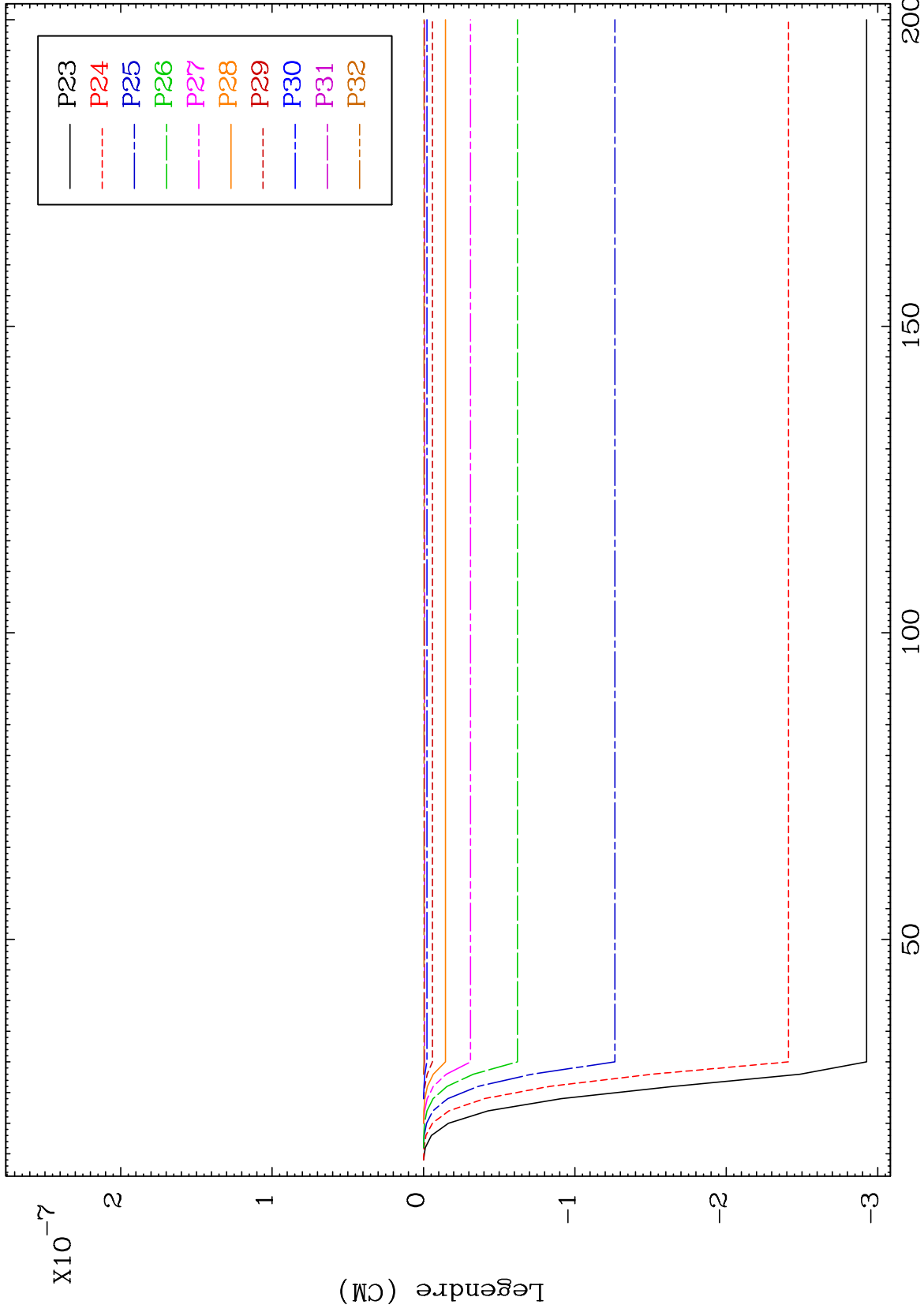
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



77

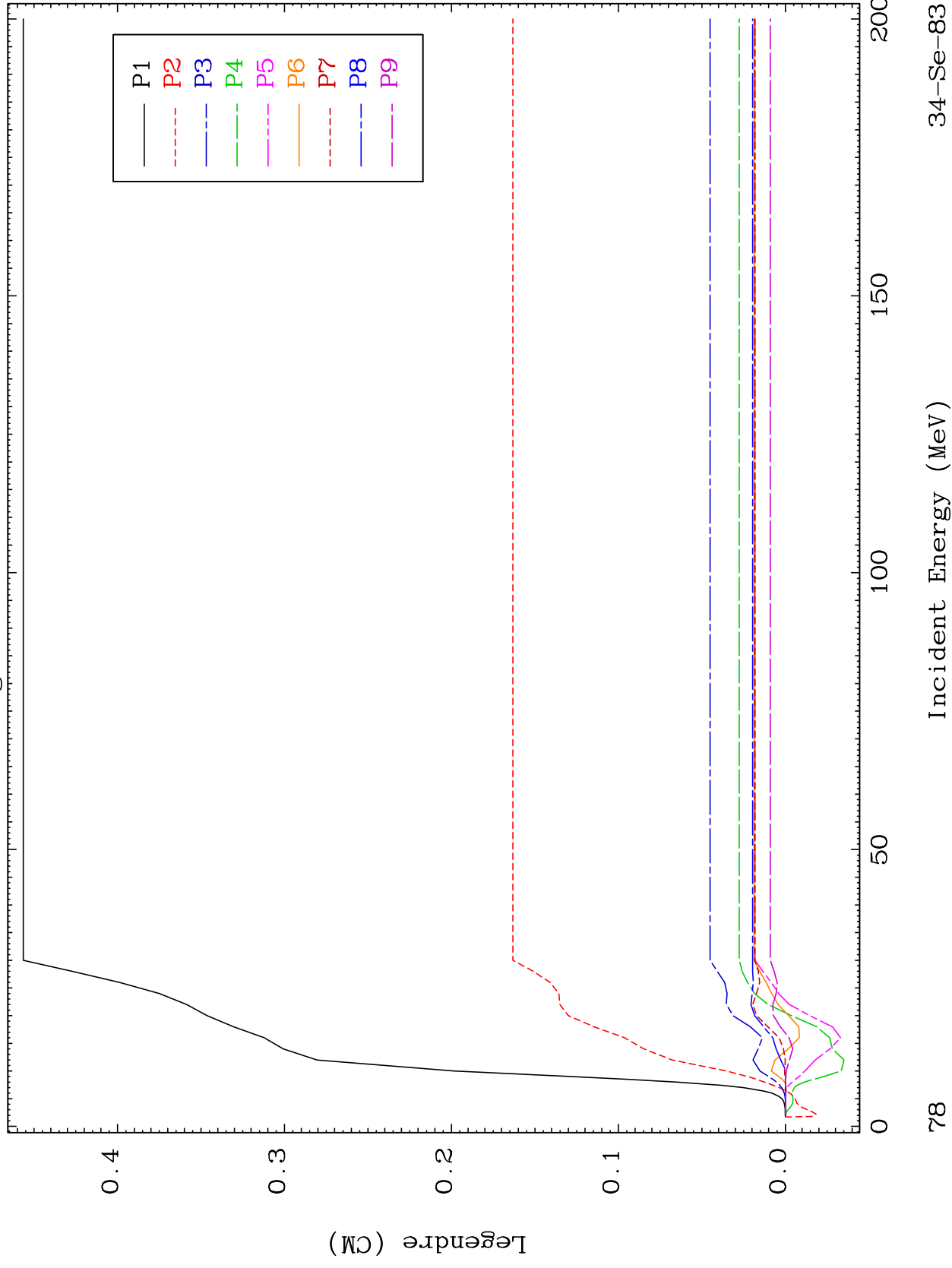
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

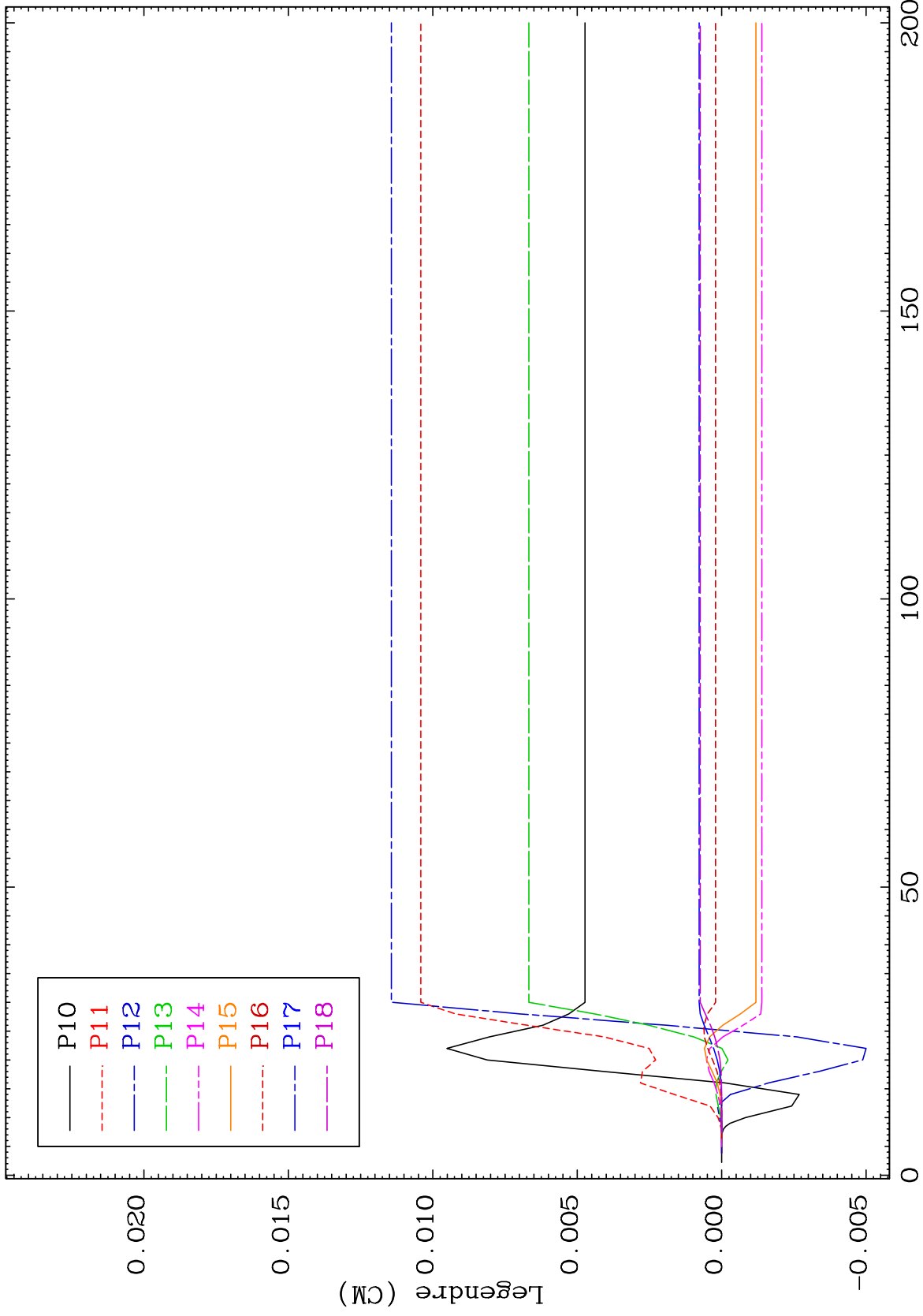
34-Se-83



MAT 3452

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

34-Se-83

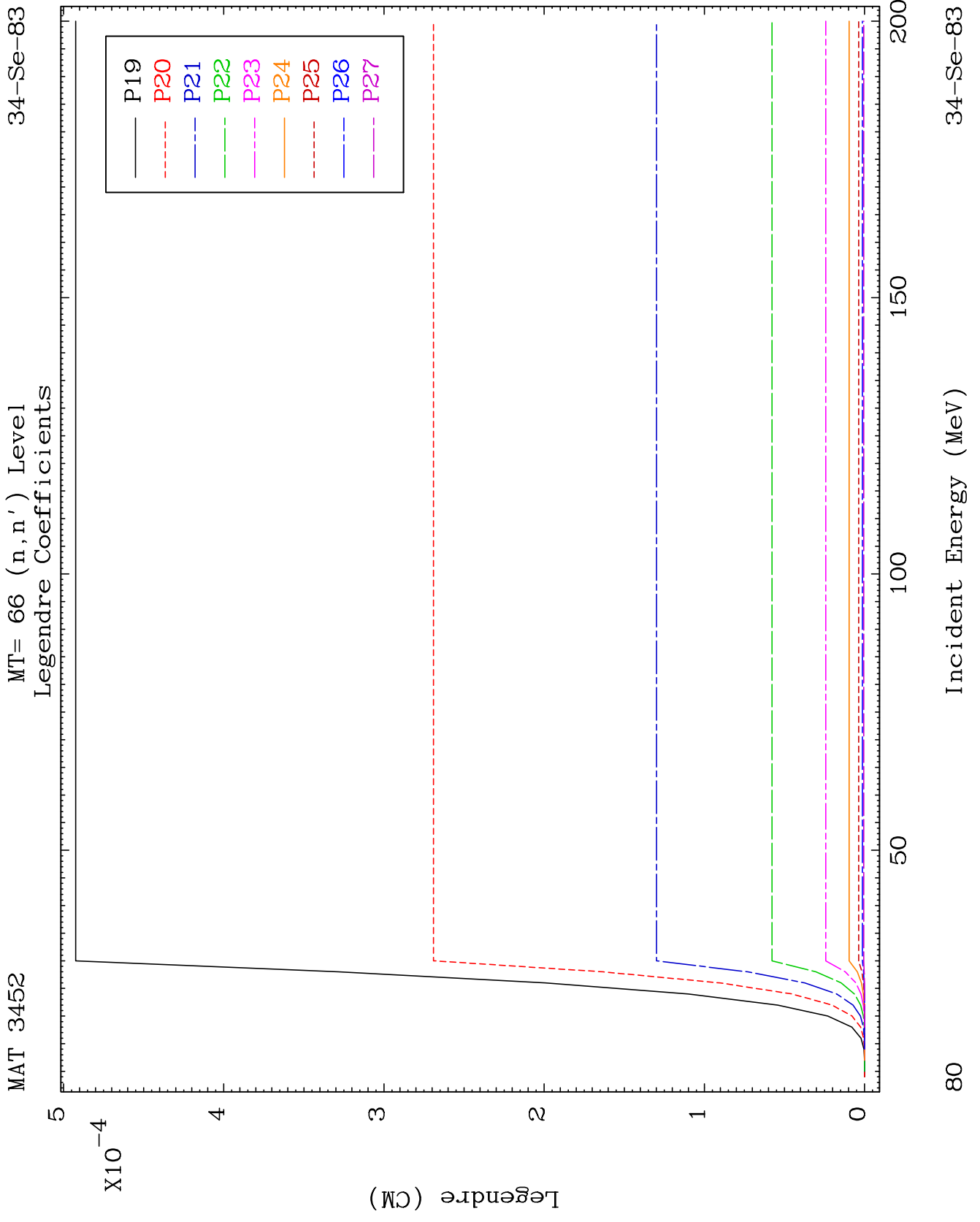


79

Incident Energy (MeV)

34-Se-83

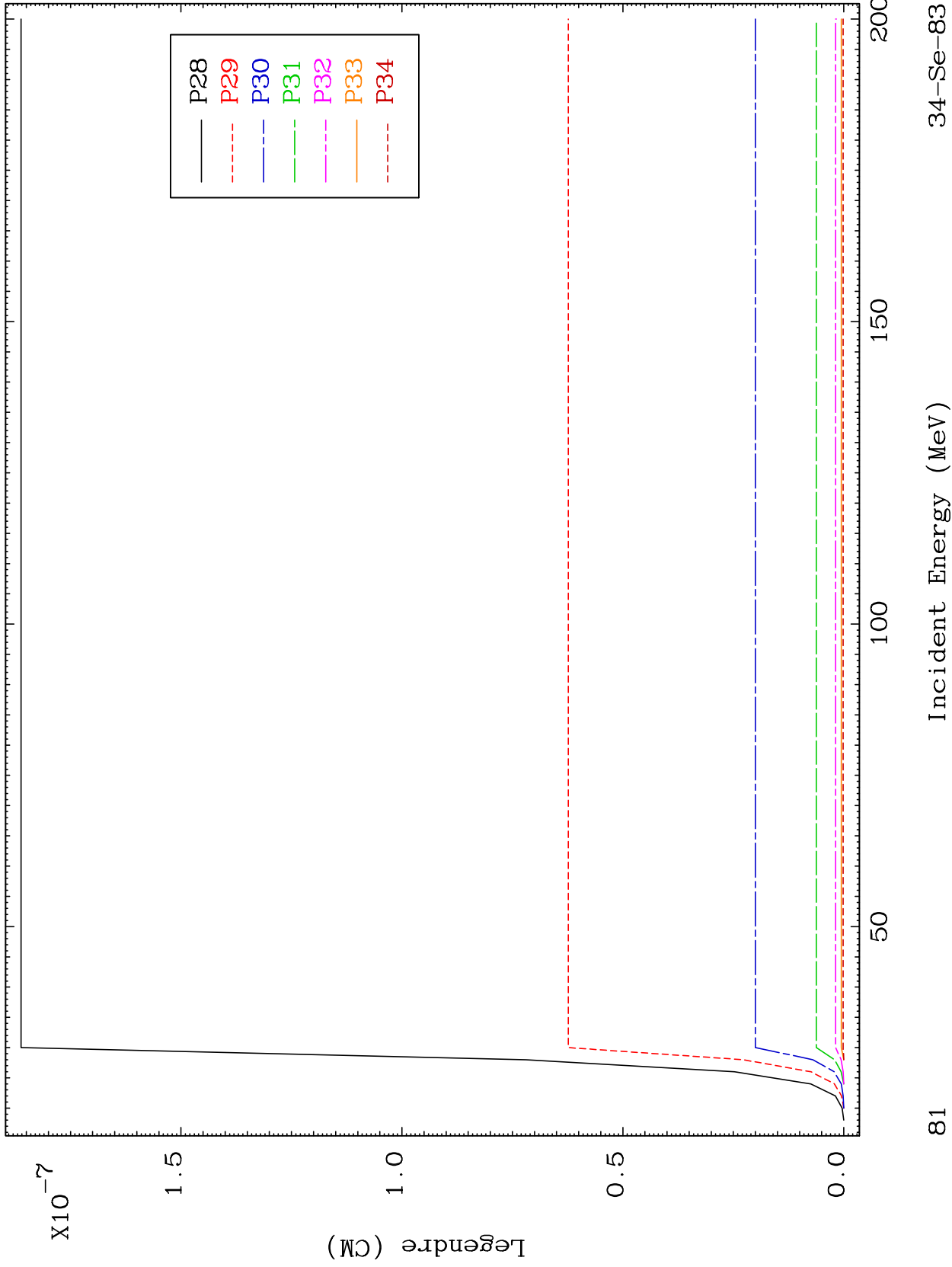




MAT 3452

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

34-Se-83



81

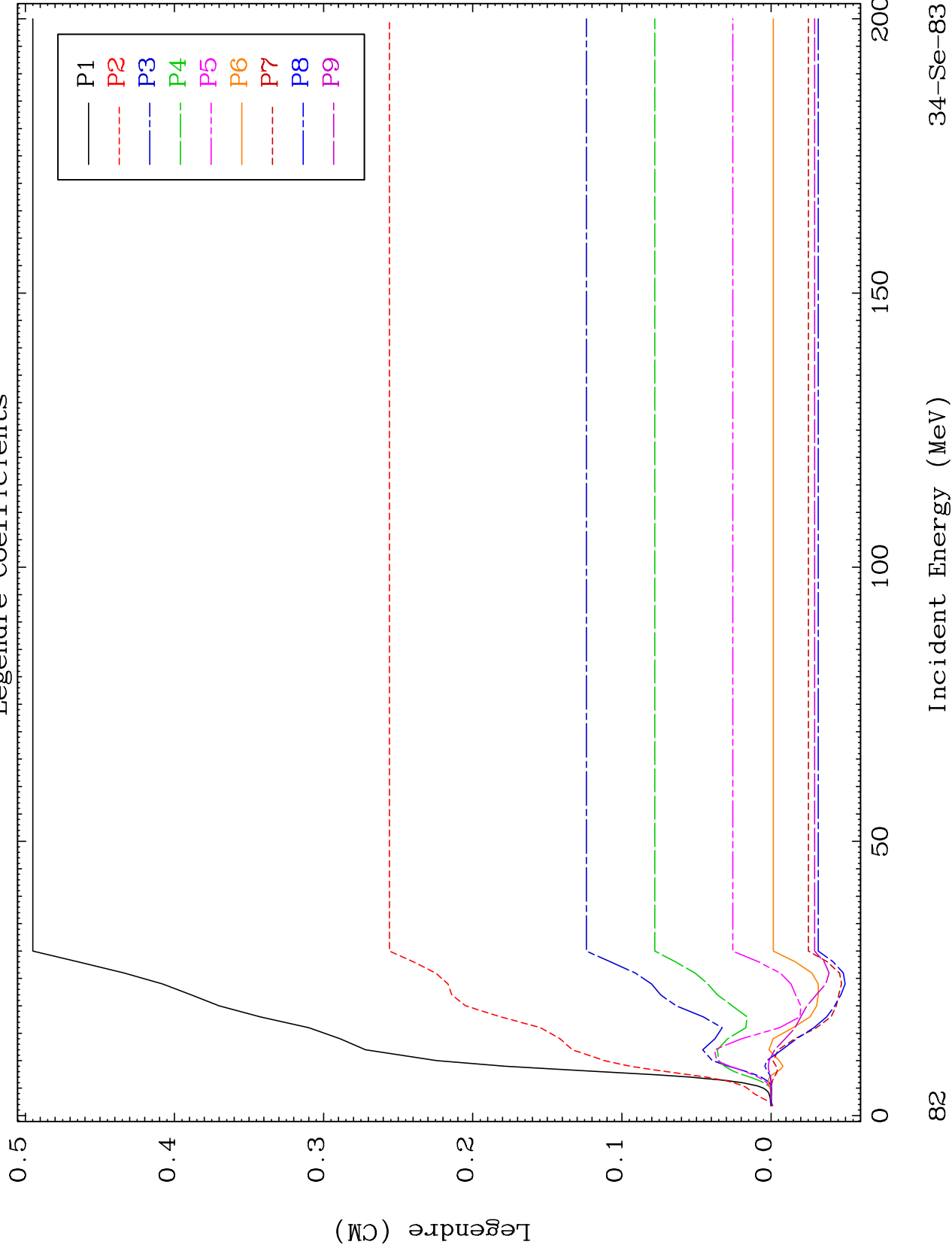
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



<sup>34</sup>Se-83

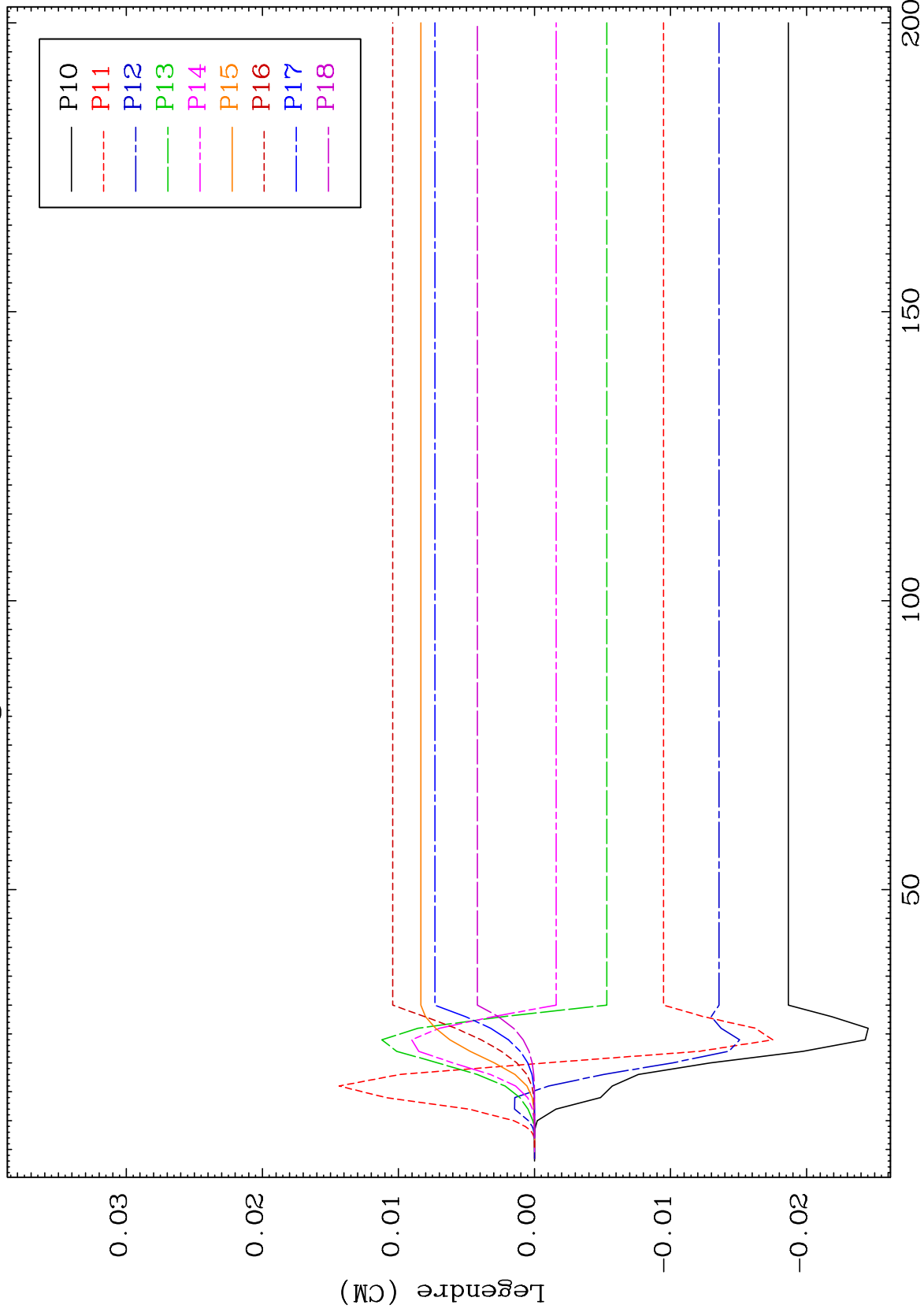
Incident Energy (MeV)

82

MAT 3452

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

34-Se-83



83

Incident Energy (MeV)

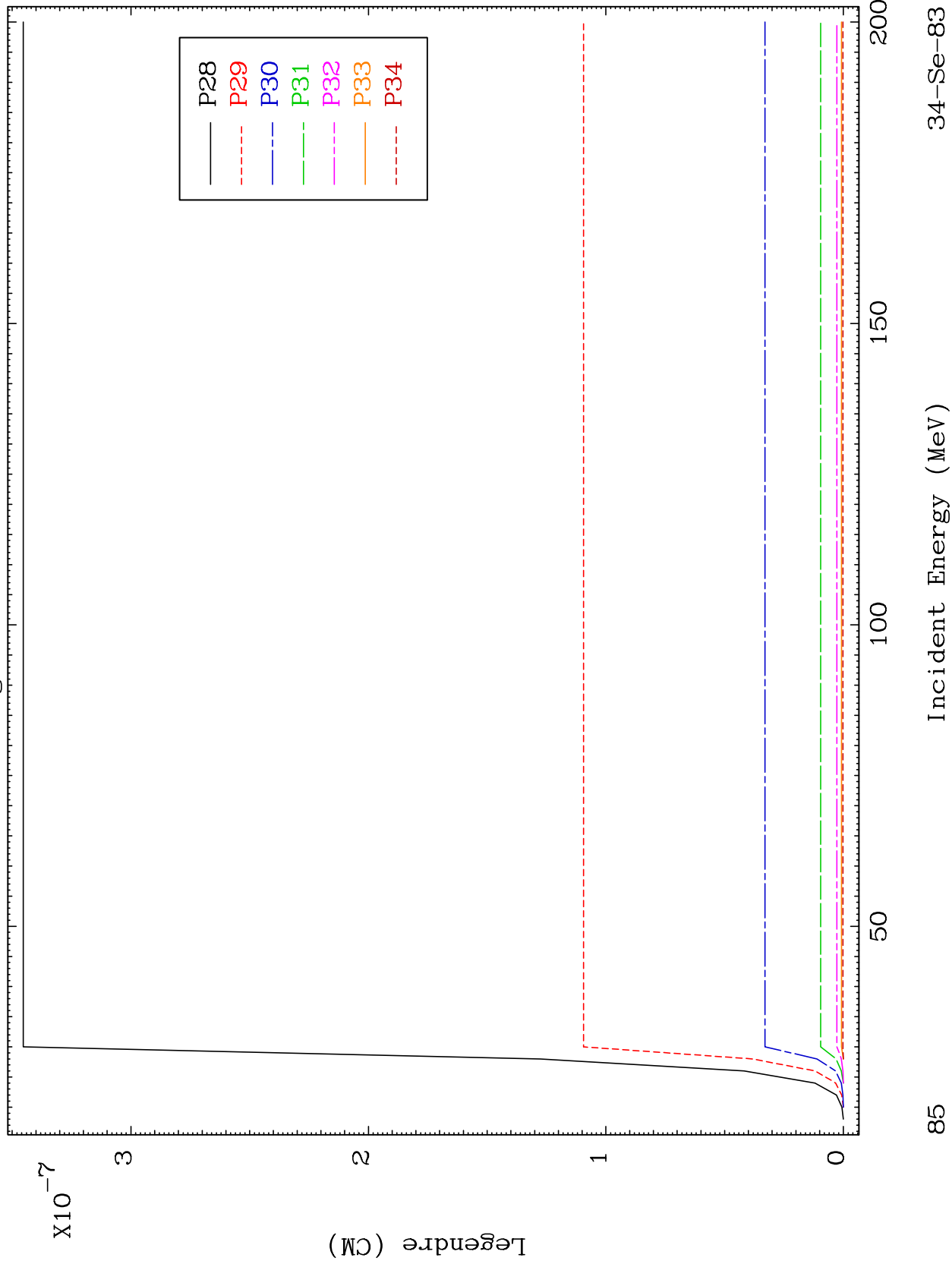
34-Se-83



MAT 3452

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

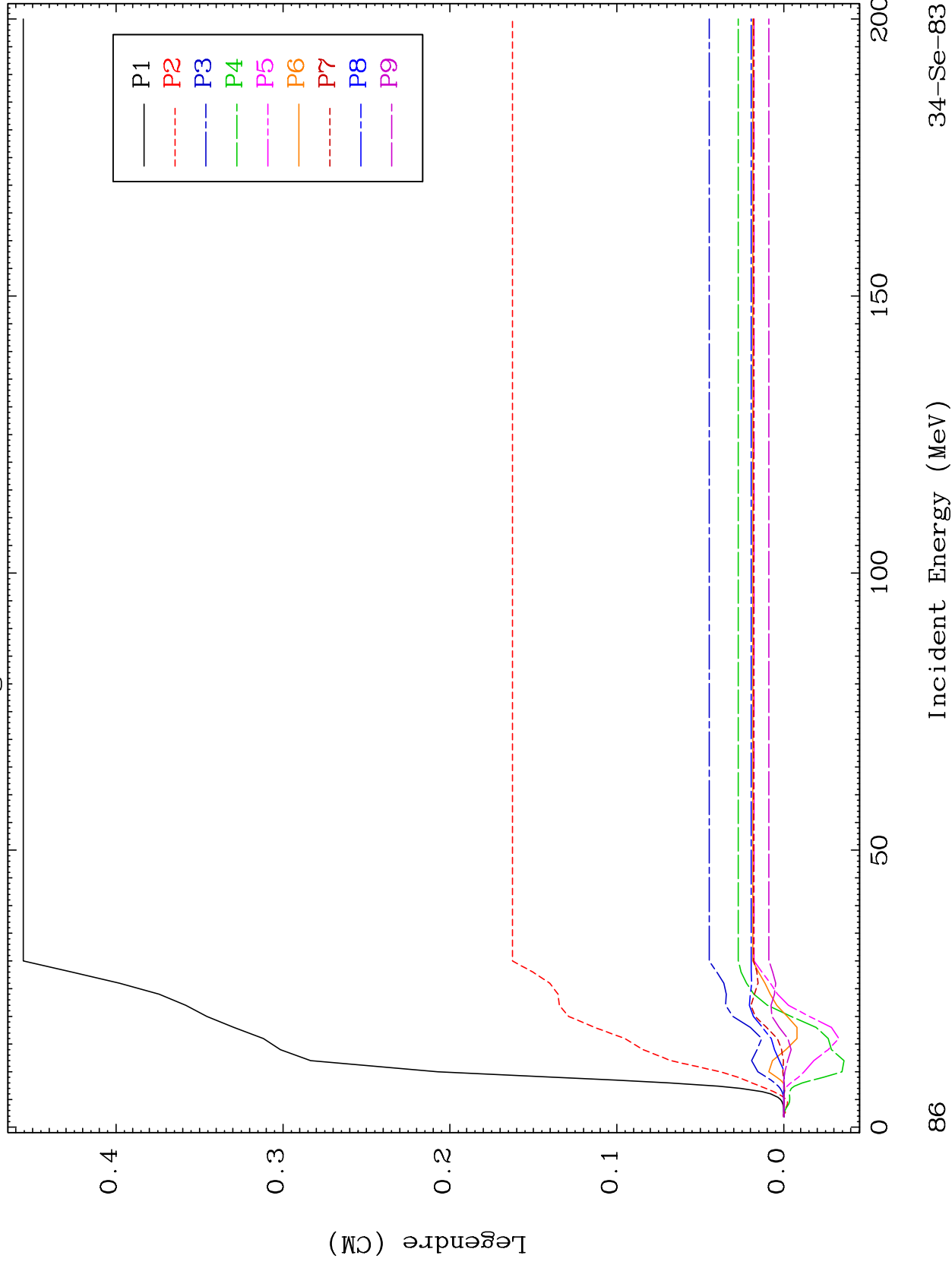
34-Se-83



MAT 3452

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

34-Se-83



34-Se-83

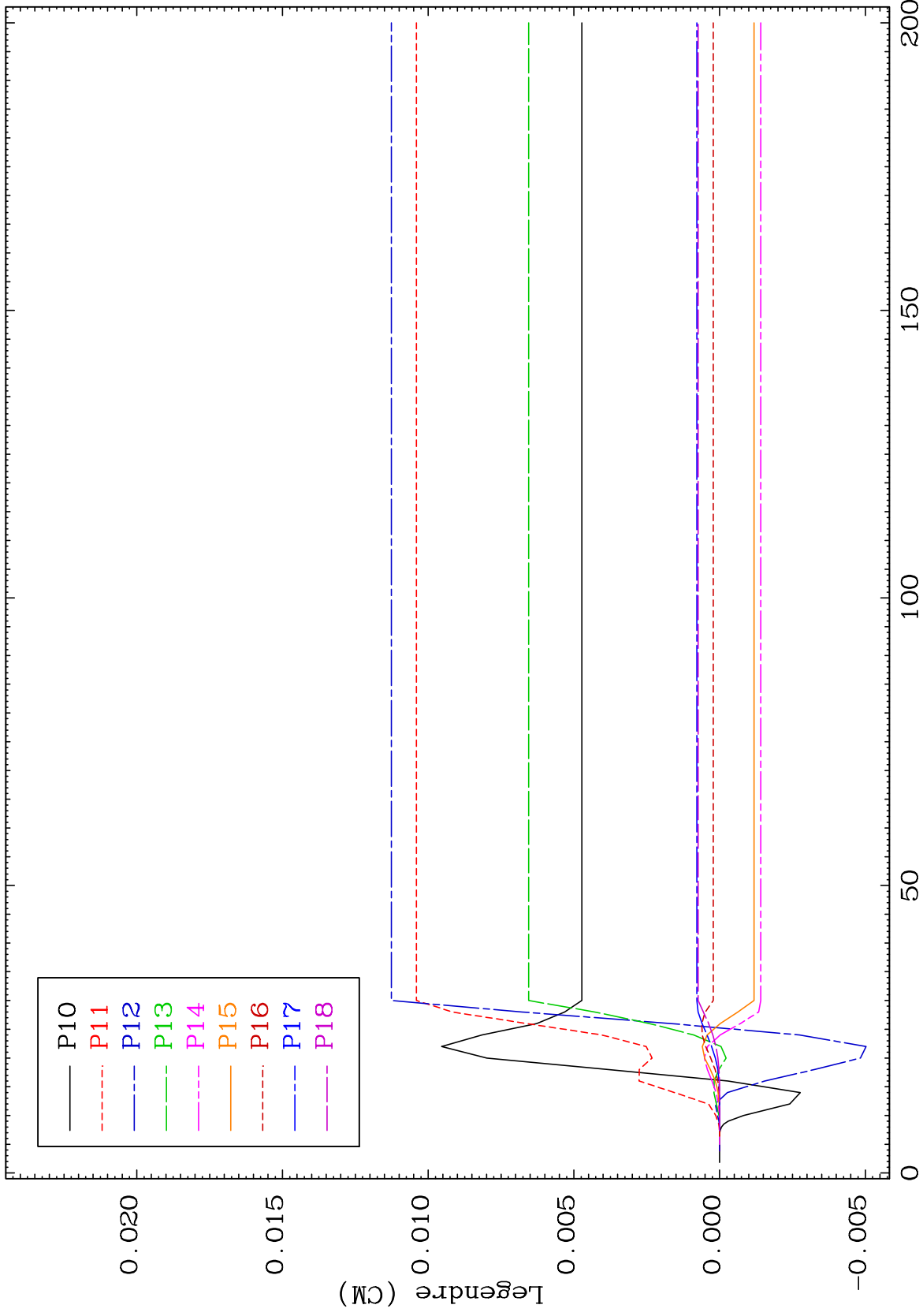
Incident Energy (MeV)

86

MAT 3452

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

34-Se-83



87

Incident Energy (MeV)

34-Se-83

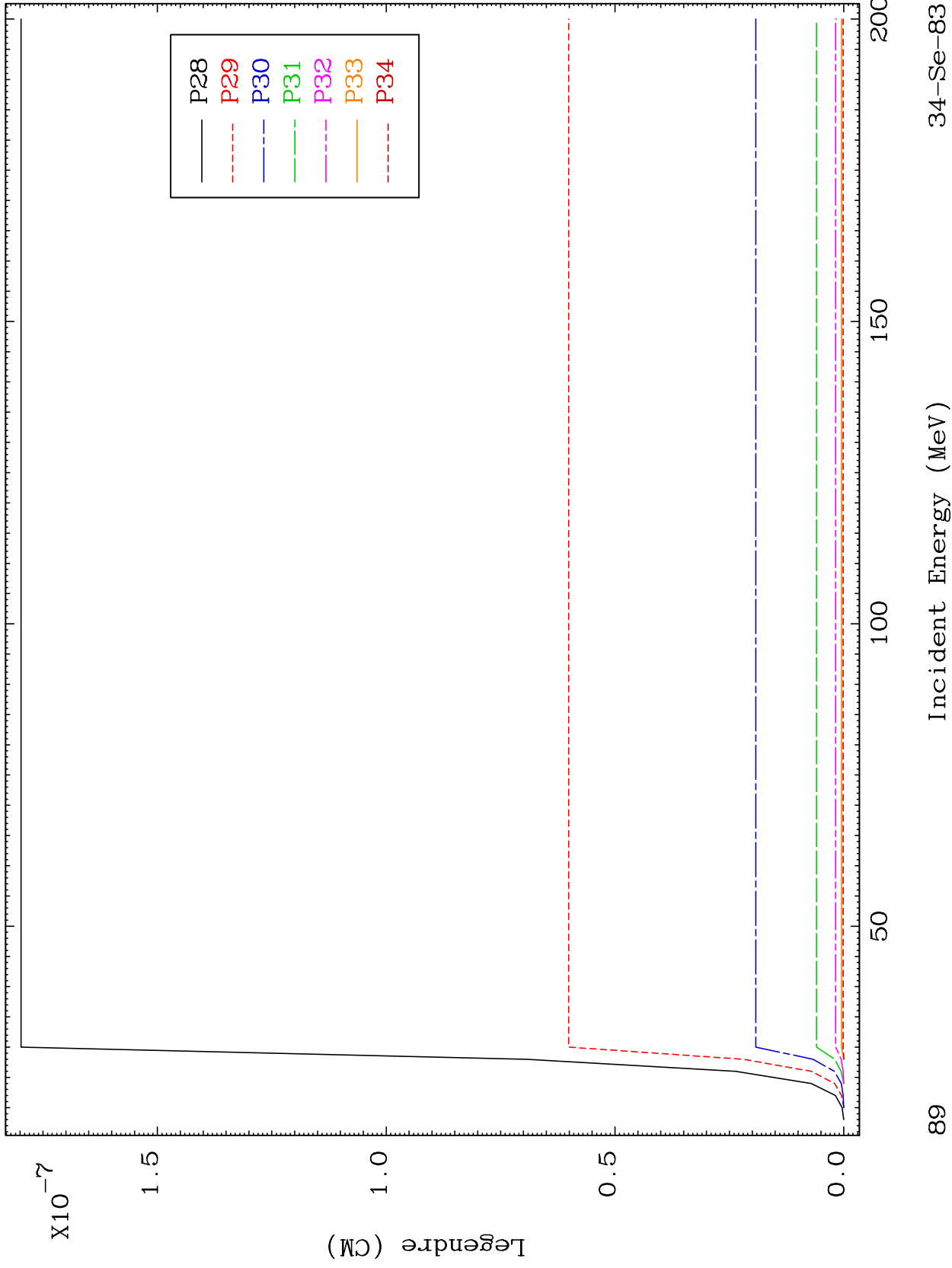




MAT 3452

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

34-Se-83



89

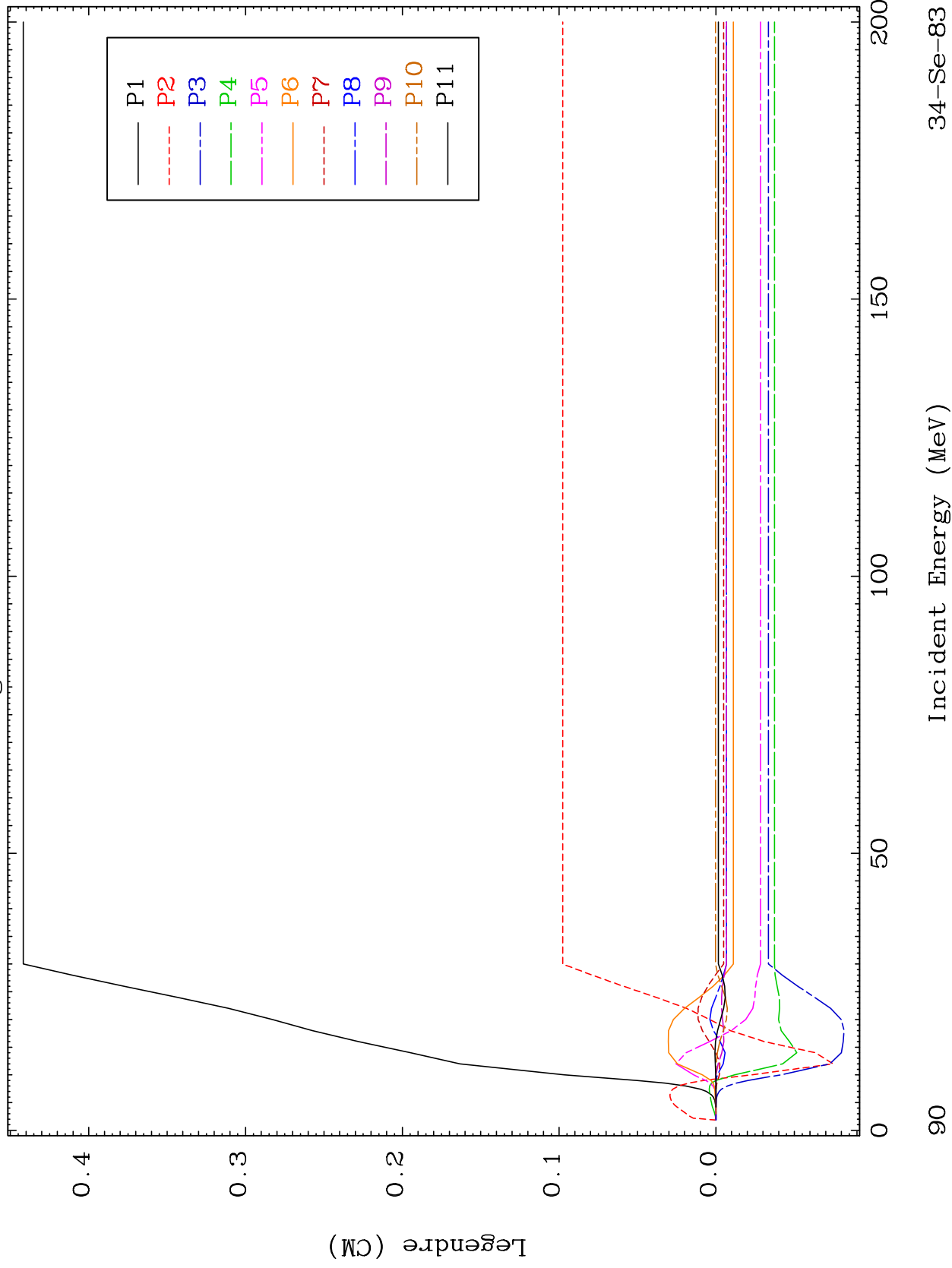
Incident Energy (MeV)

34-Se-83

MAT 3452

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

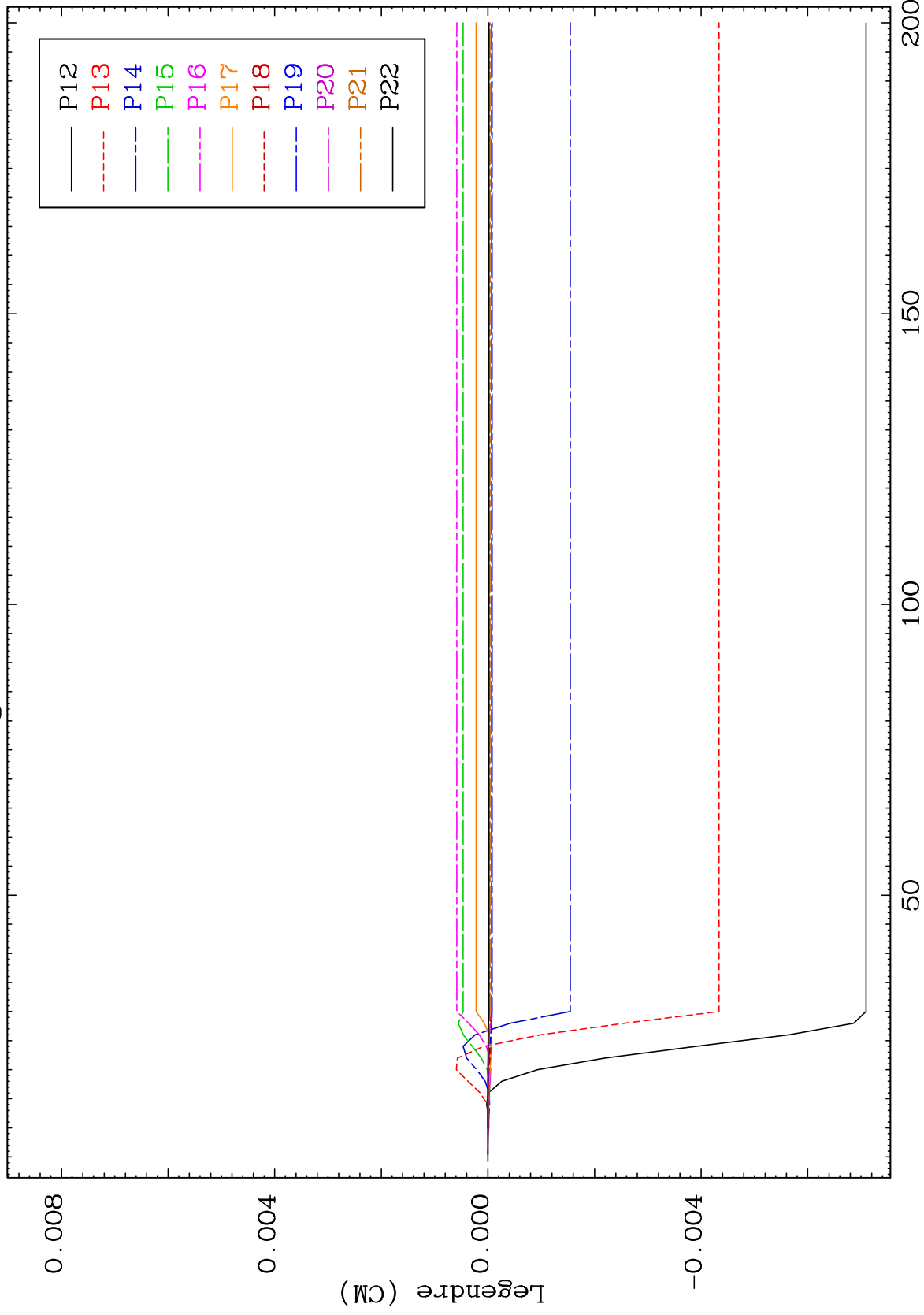
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



91

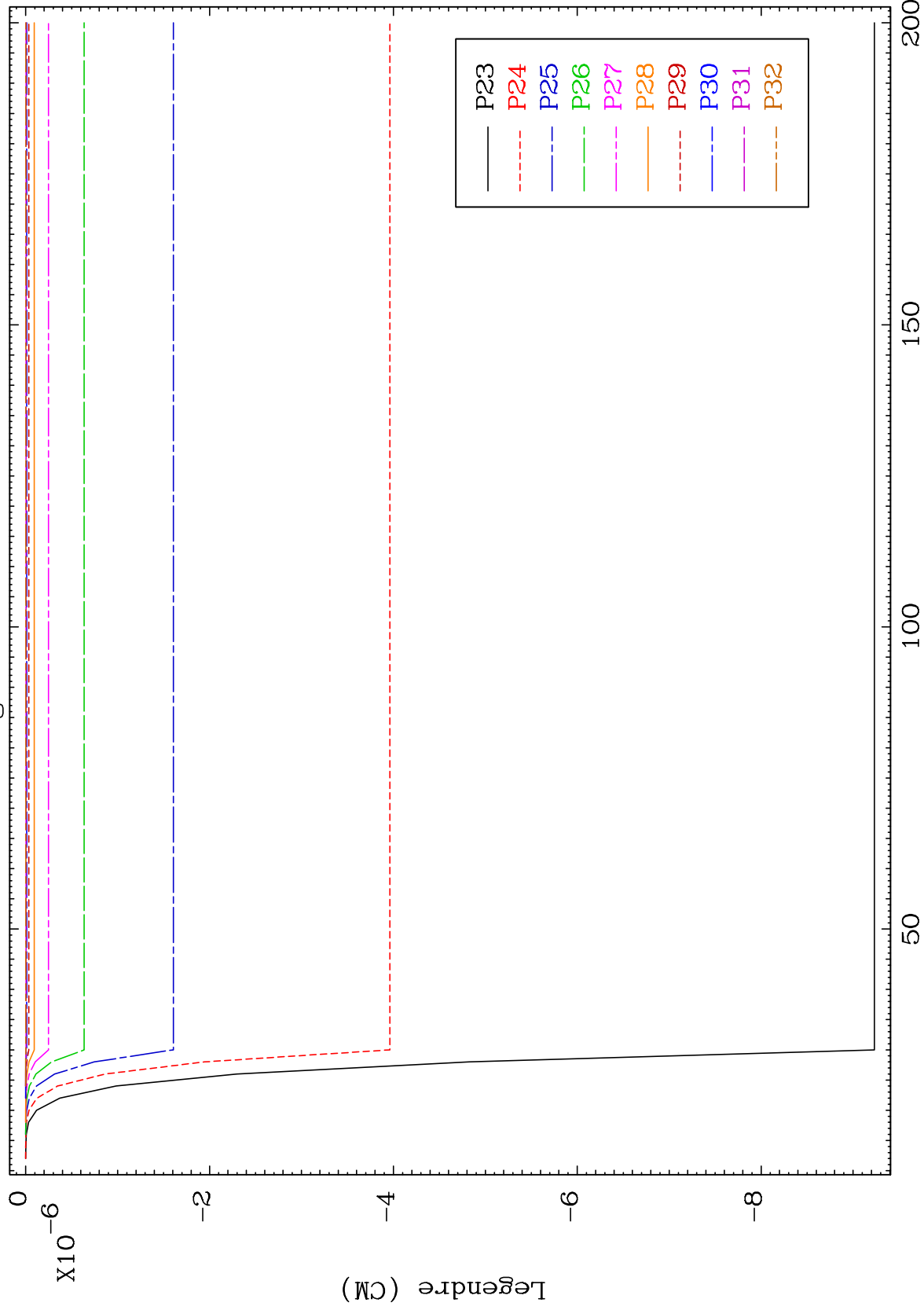
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



92

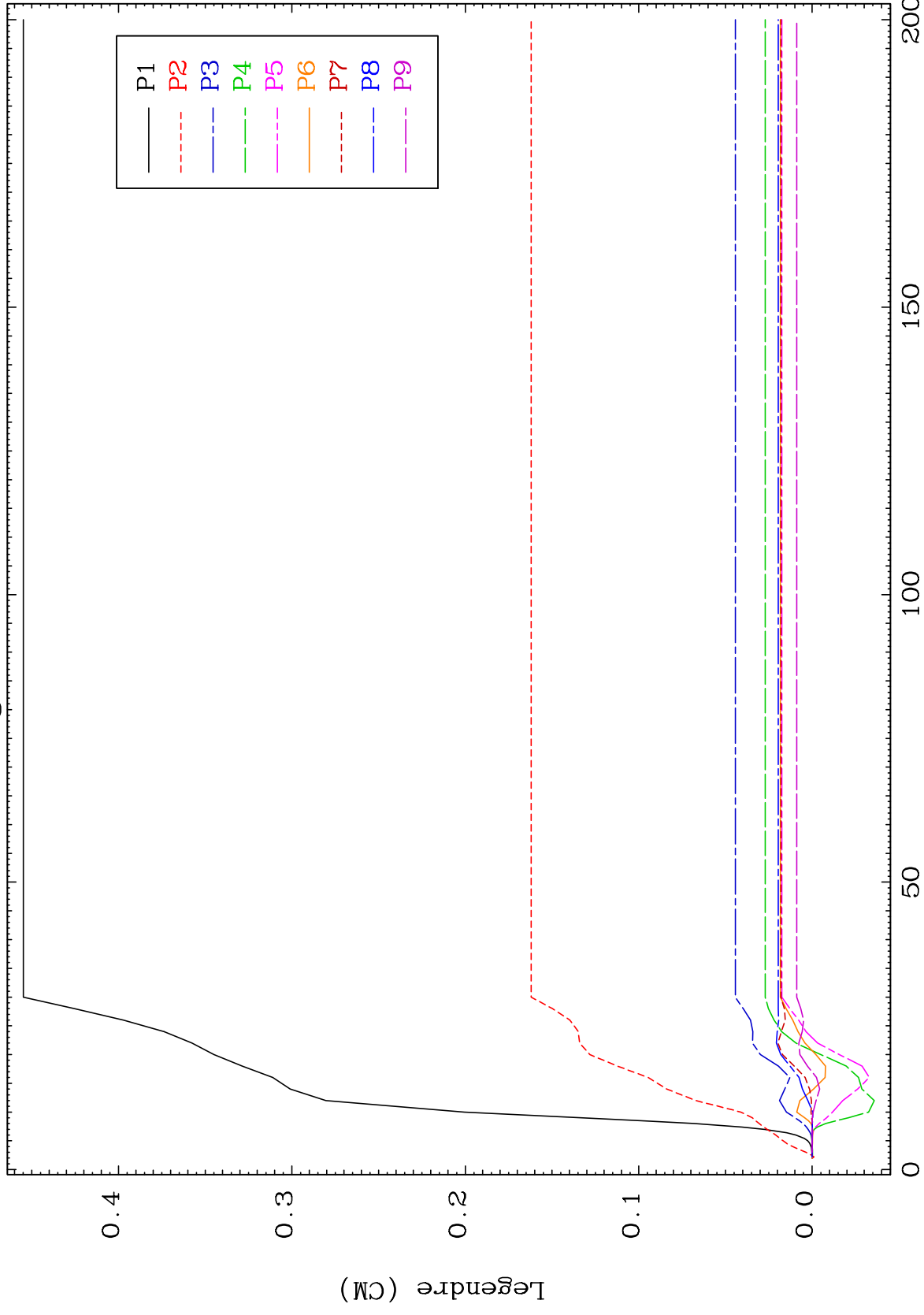
Incident Energy (MeV)

34-Se-83

MAT 3452

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

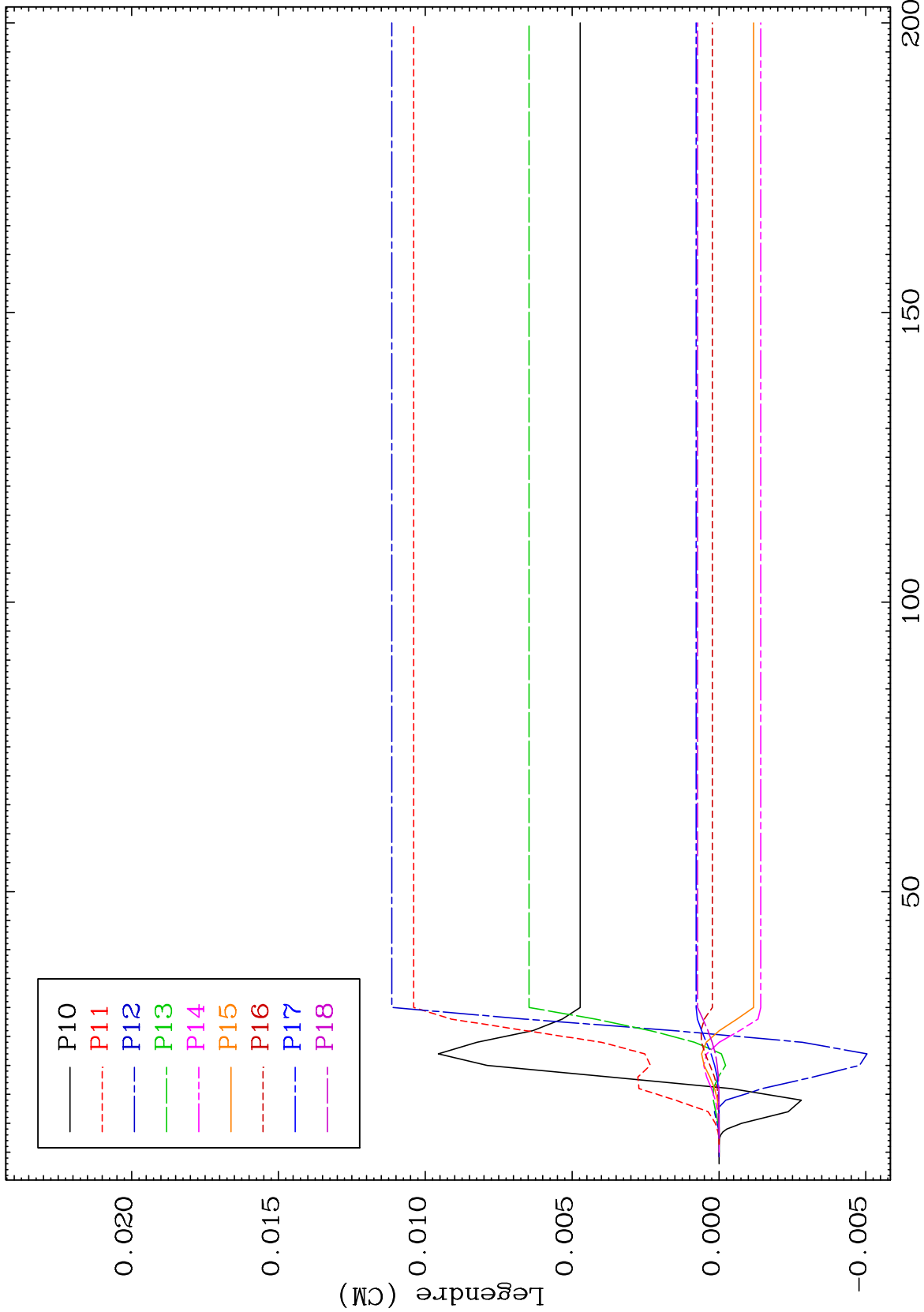
34-Se-83



93

Incident Energy (MeV)

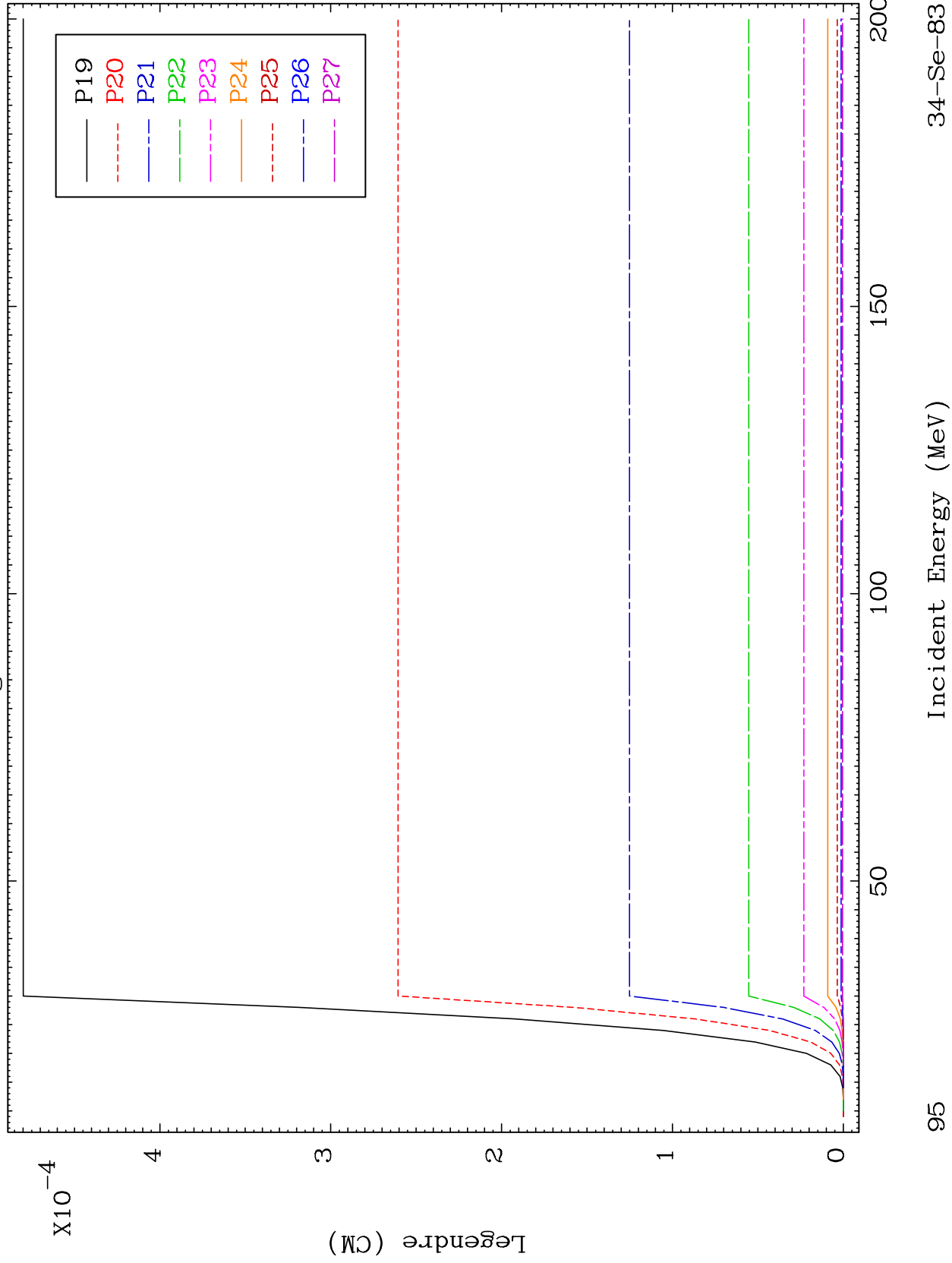
34-Se-83



MAT 3452

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

<sup>34</sup>Se-83



95

Incident Energy (MeV)

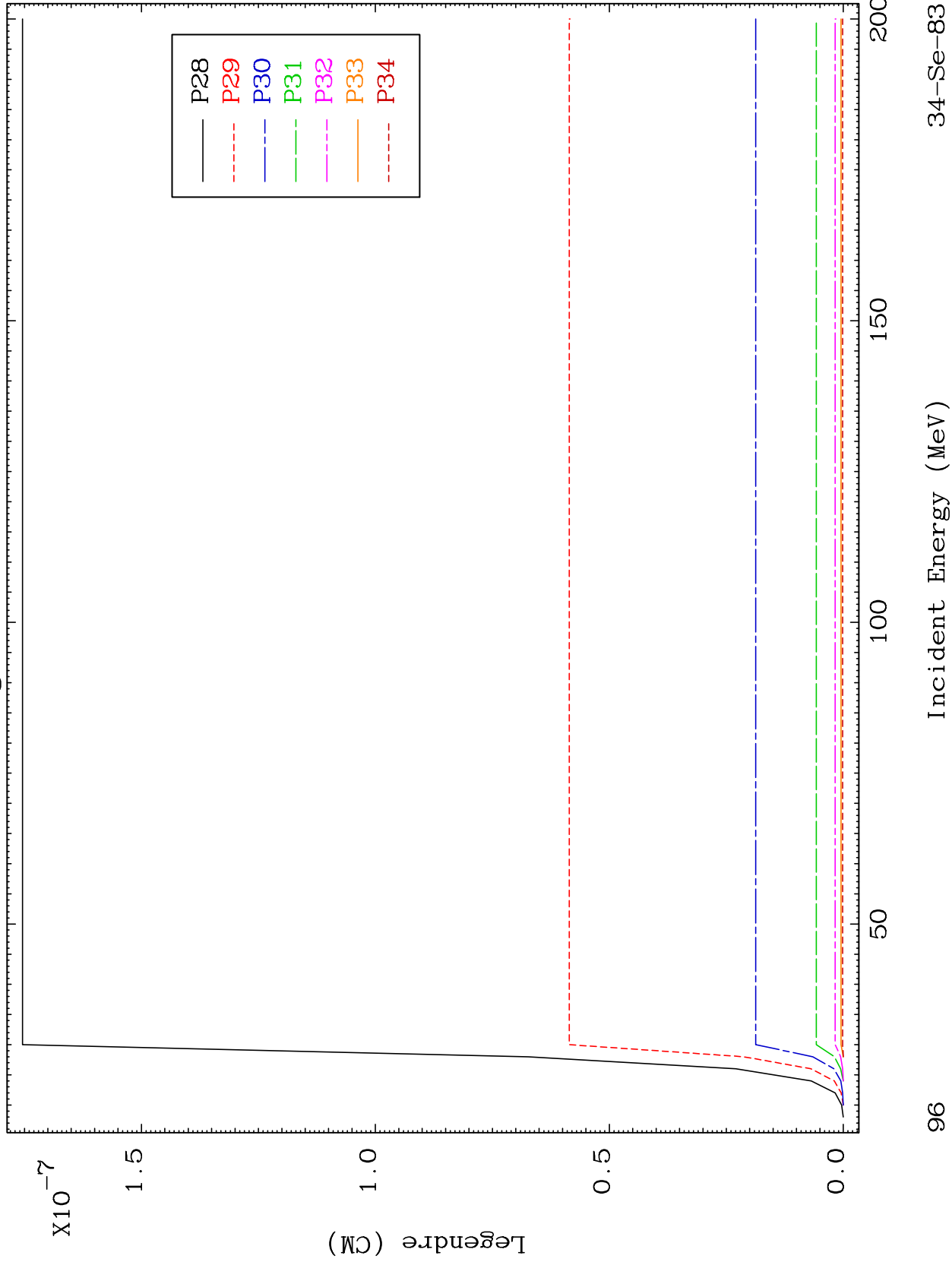
<sup>34</sup>Se-83



MAT 3452

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

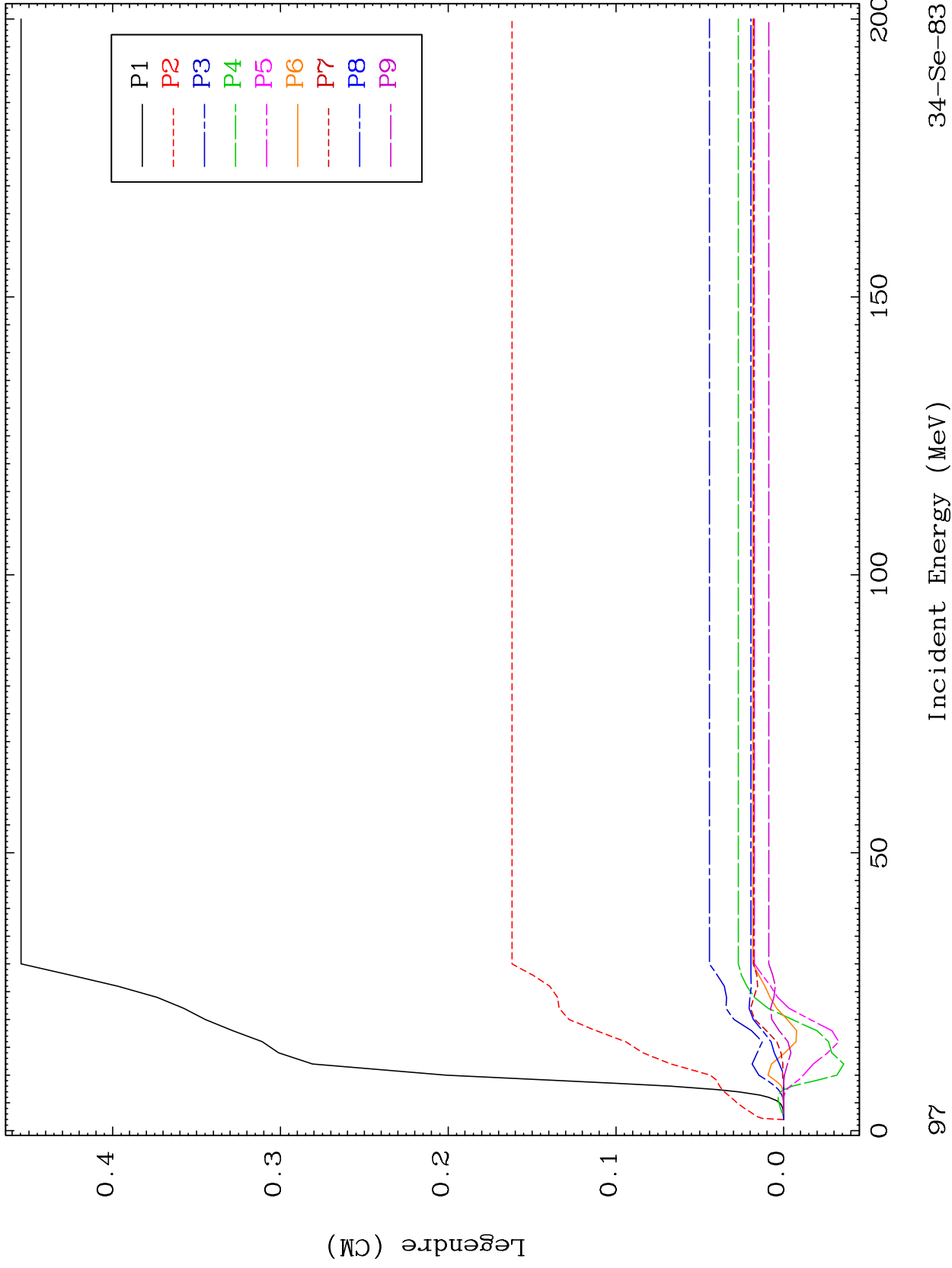
34-Se-83



MAT 3452

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

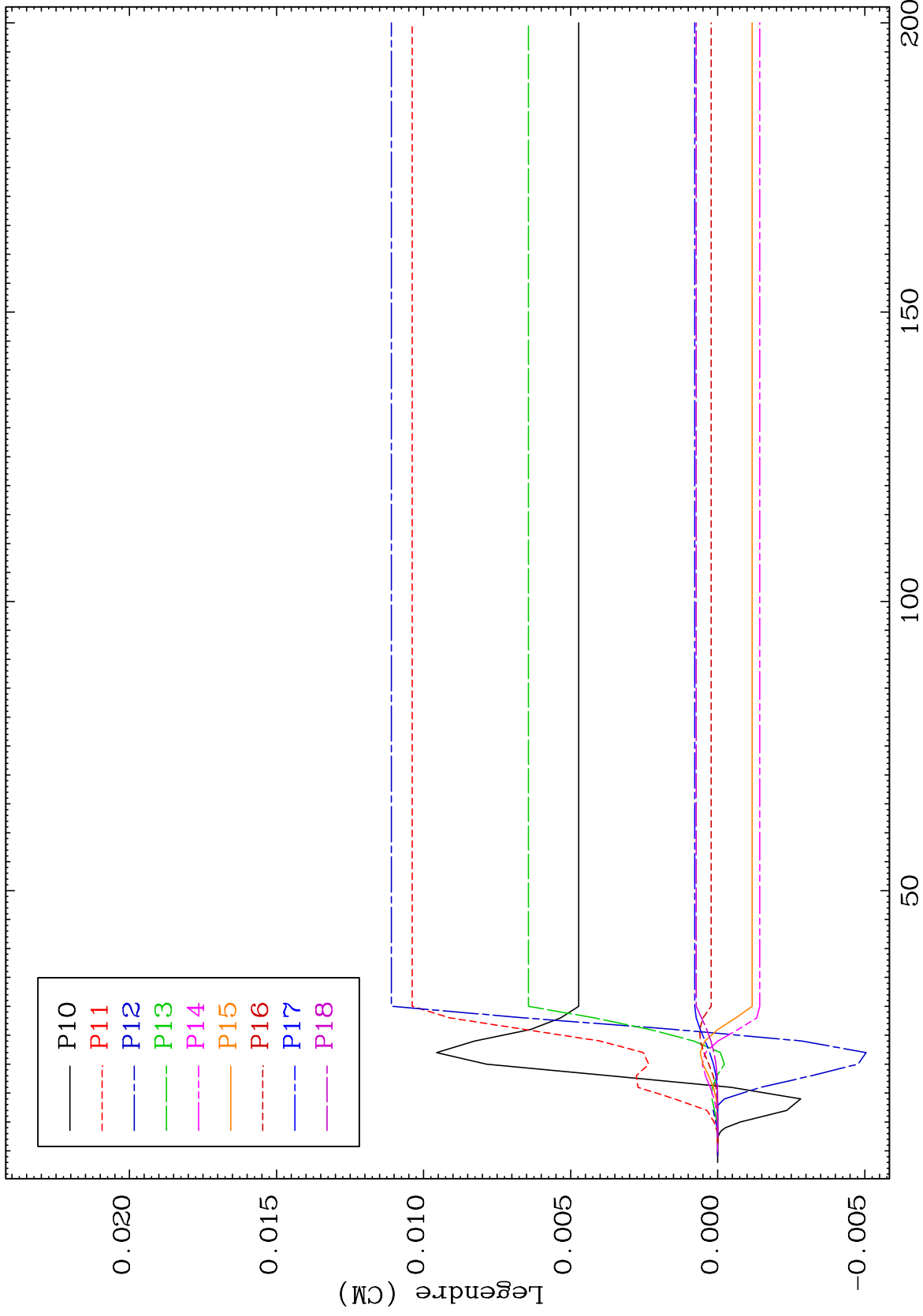
34-Se-83



97

Incident Energy (MeV)

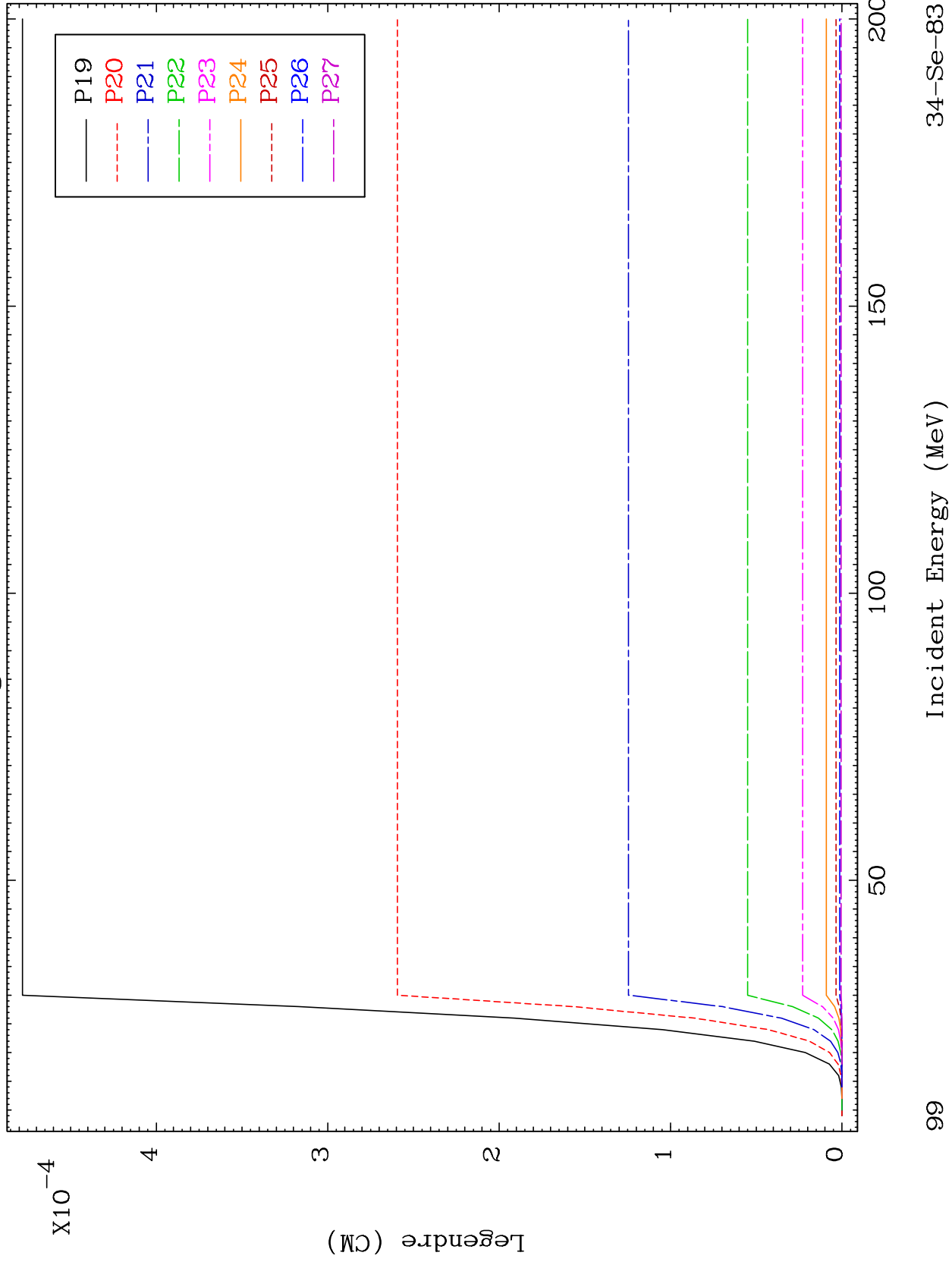
34-Se-83



MAT 3452

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

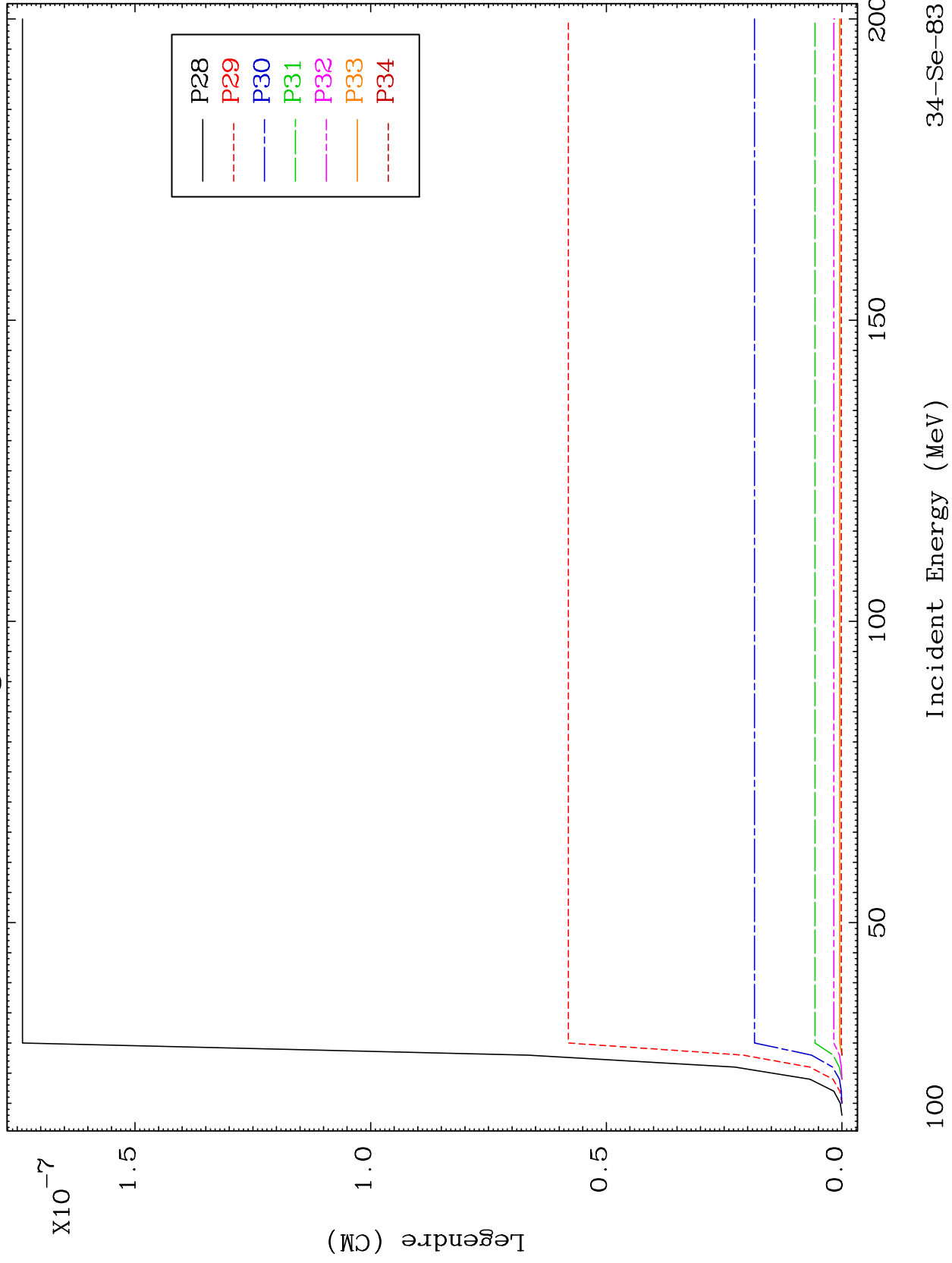
<sup>34</sup>Se-83



MAT 3452

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

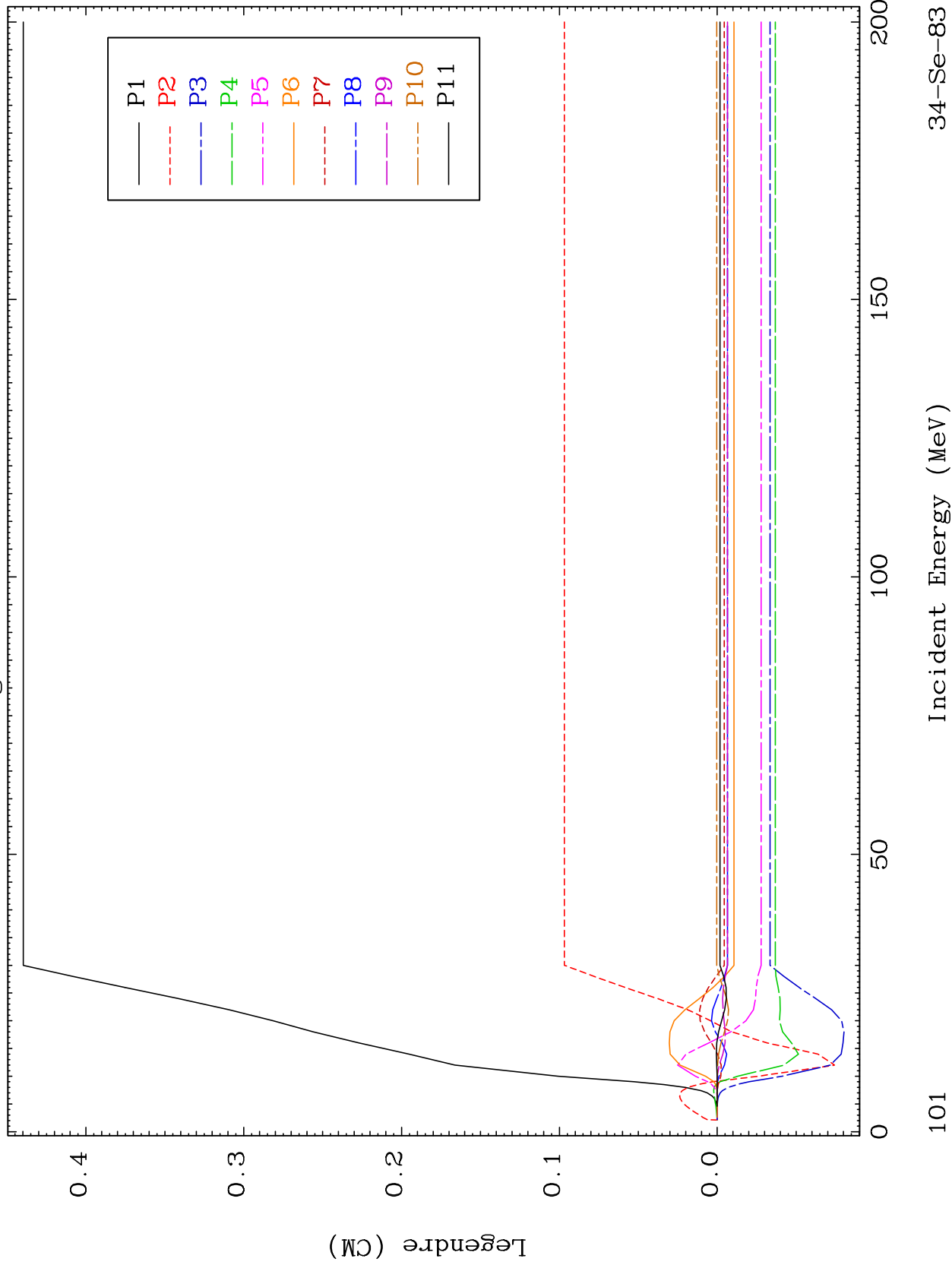
34-Se-83



MAT 3452

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

34-Se-83



34-Se-83

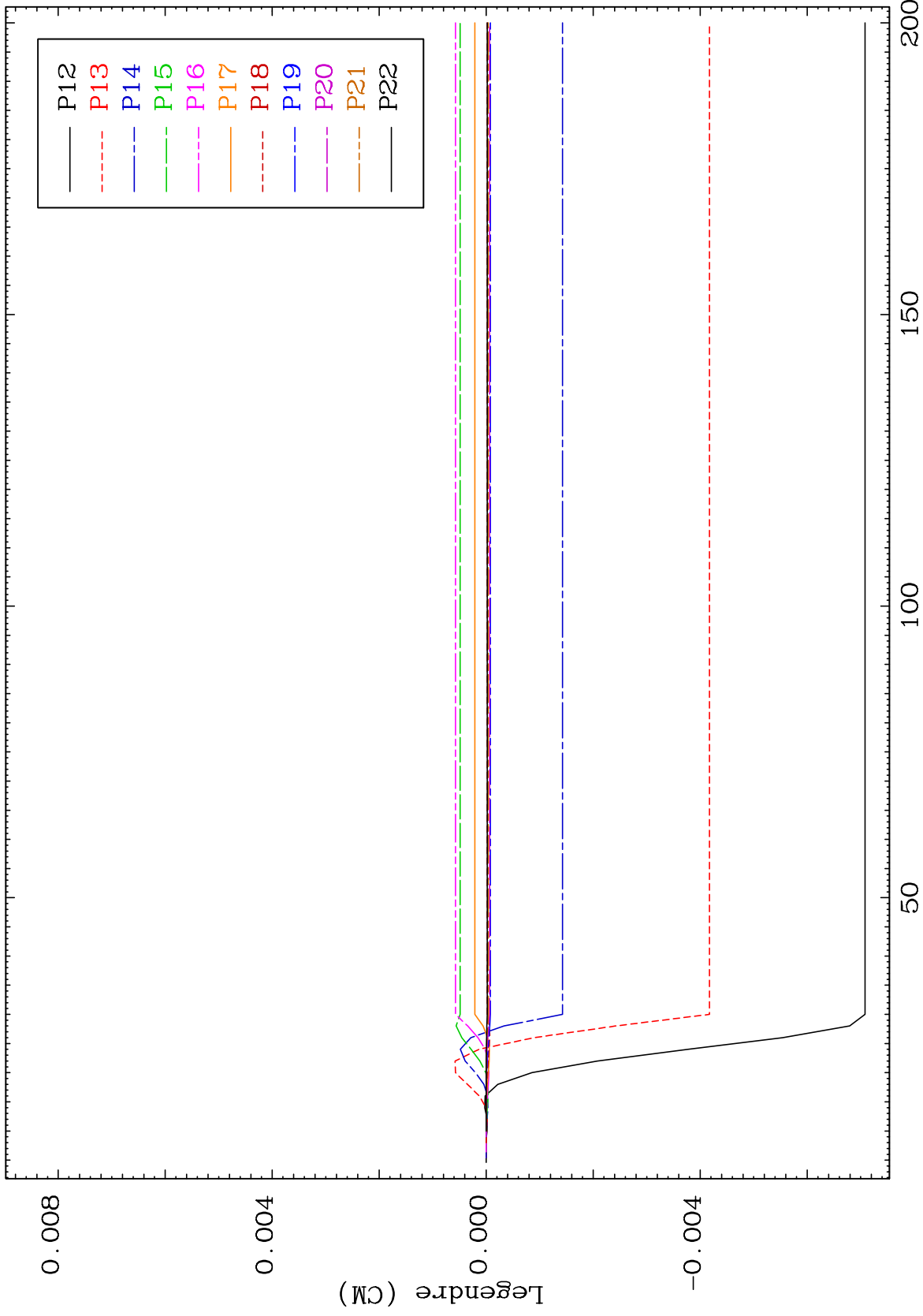
Incident Energy (MeV)

101

MAT 3452

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

<sup>34</sup>Se-83



102

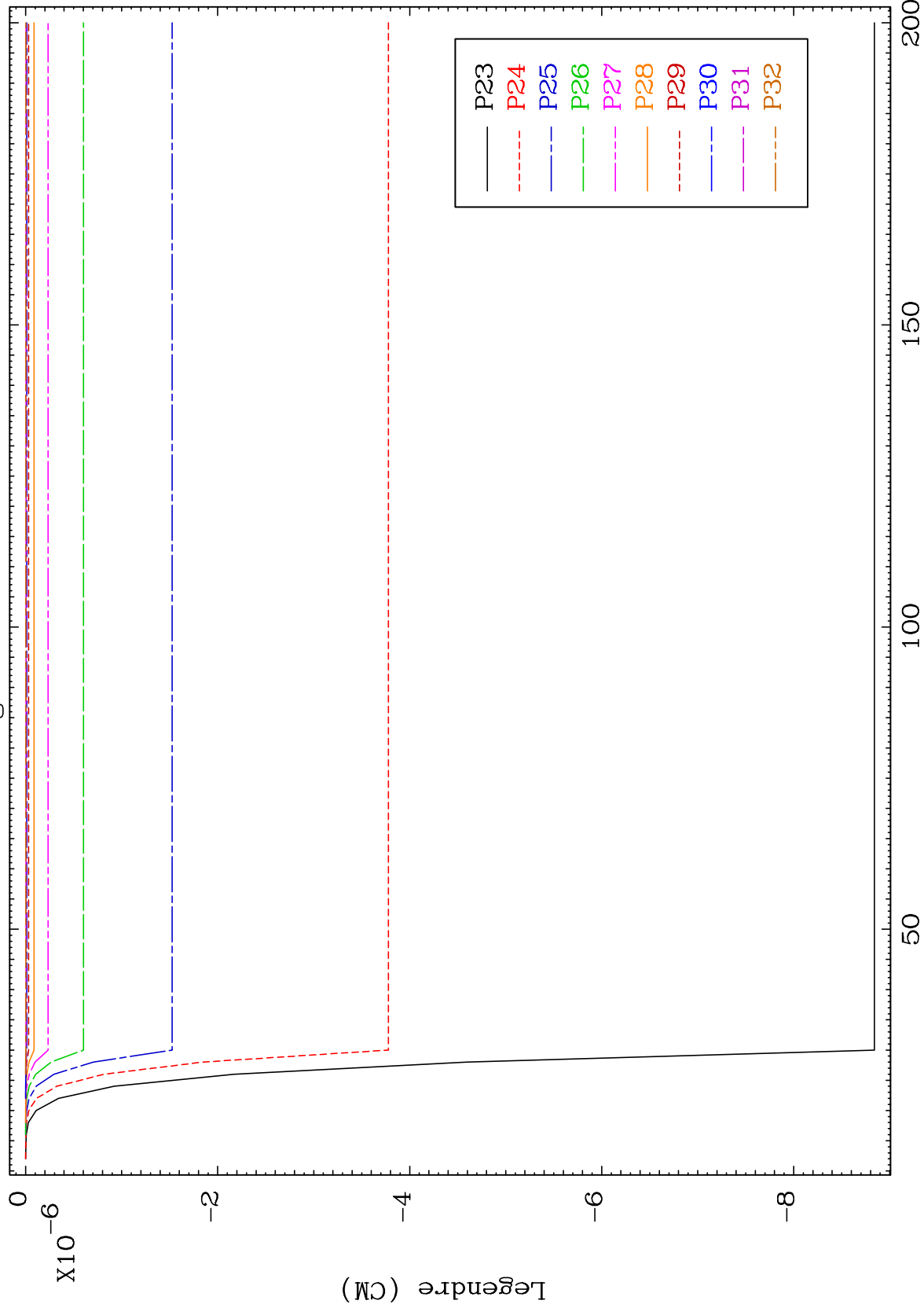
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



34-Se-83

Incident Energy (MeV)

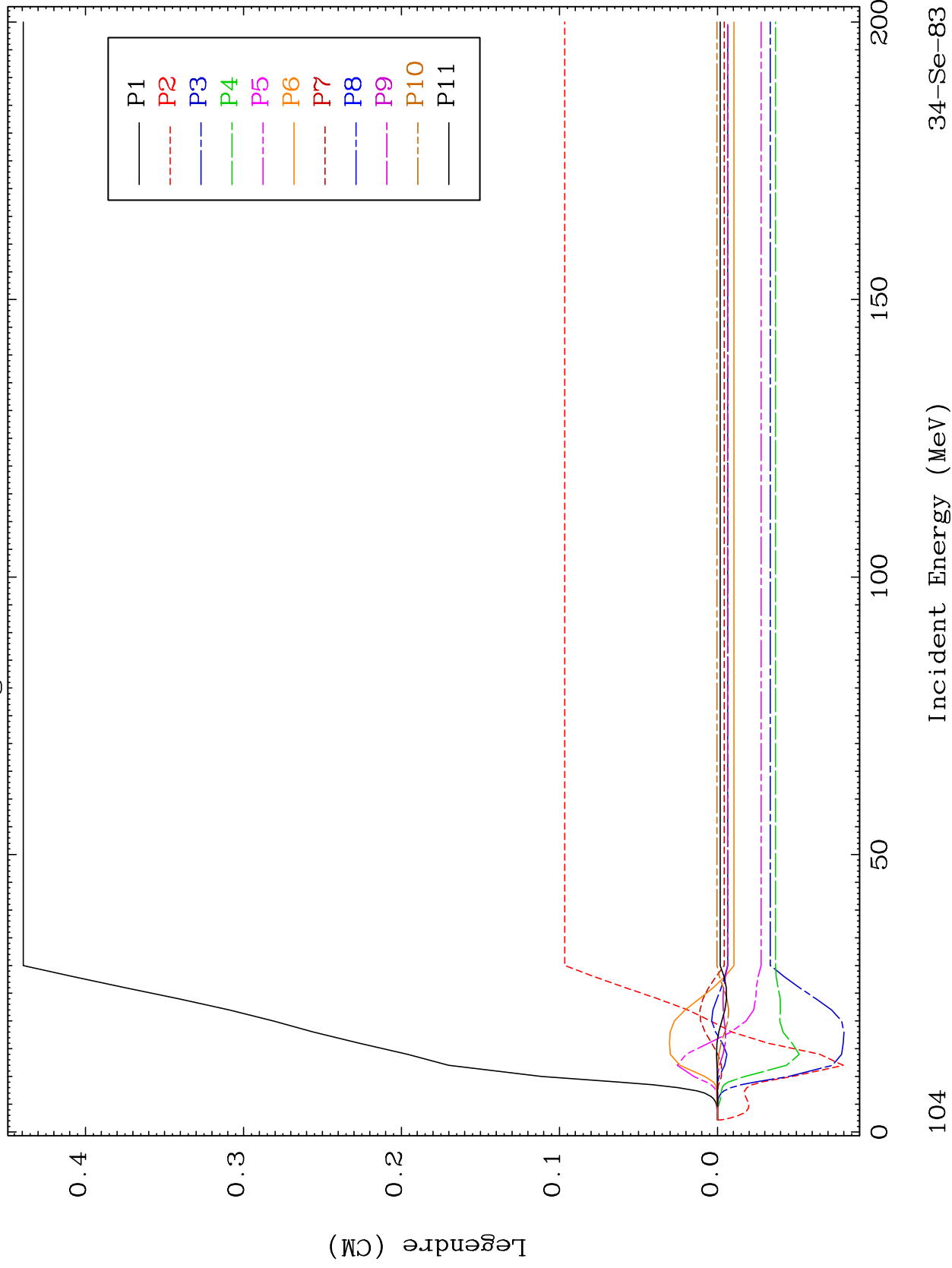
103



MAT 3452

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

<sup>34</sup>Se-83



<sup>34</sup>Se-83

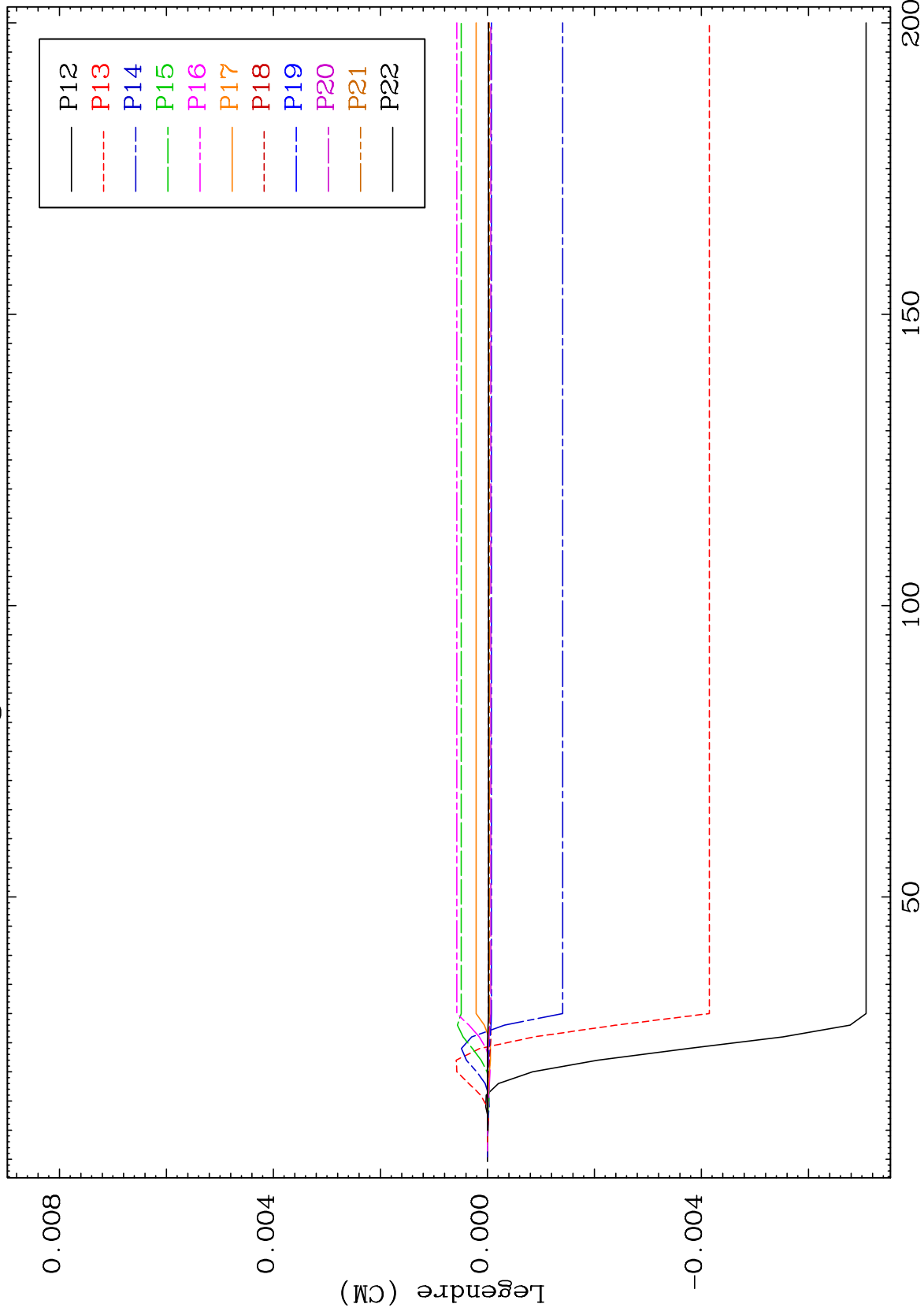
Incident Energy (MeV)

104

MAT 3452

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

34-Se-83



105

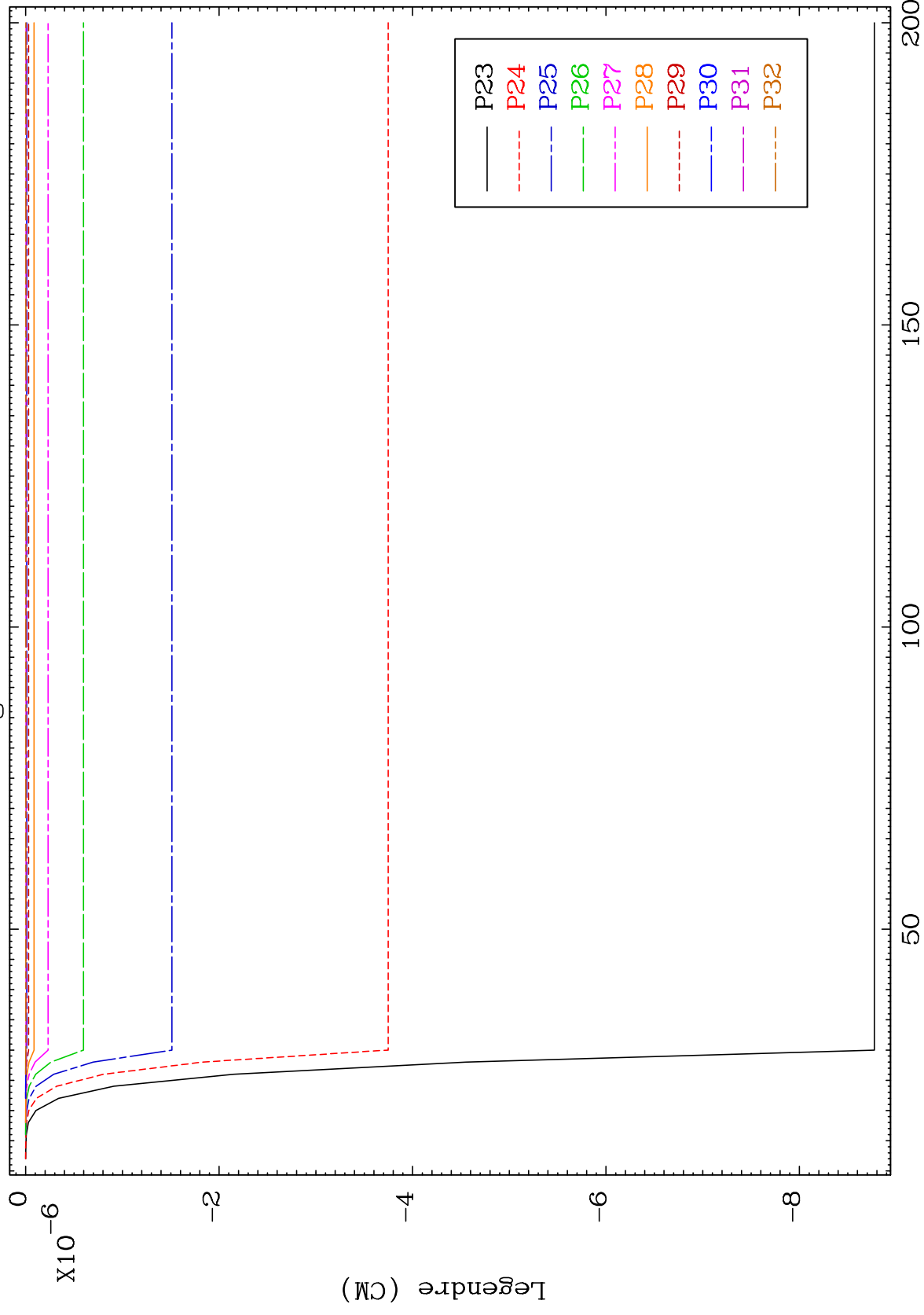
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



106

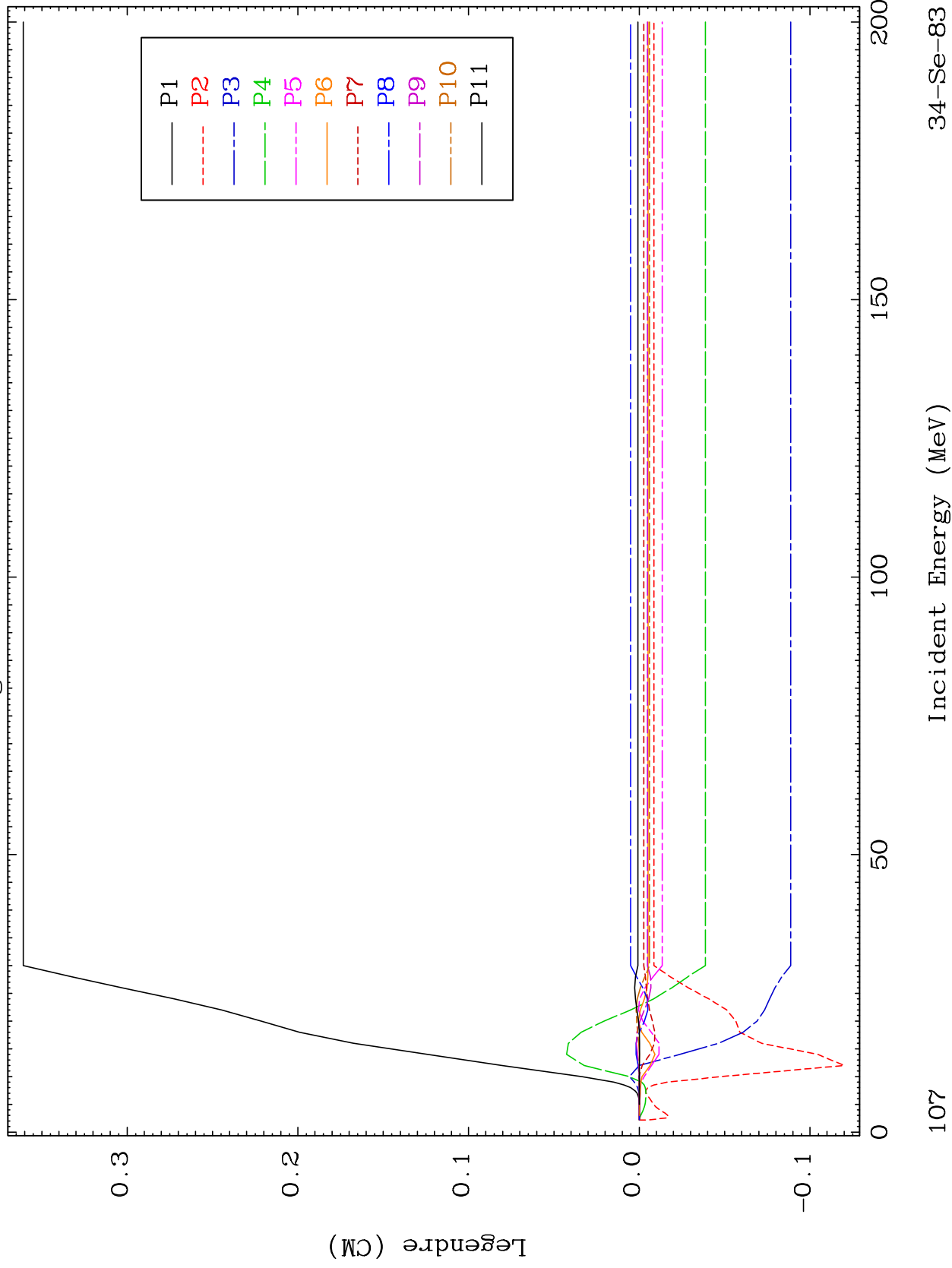
Incident Energy (MeV)

34-Se-83

MAT 3452

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

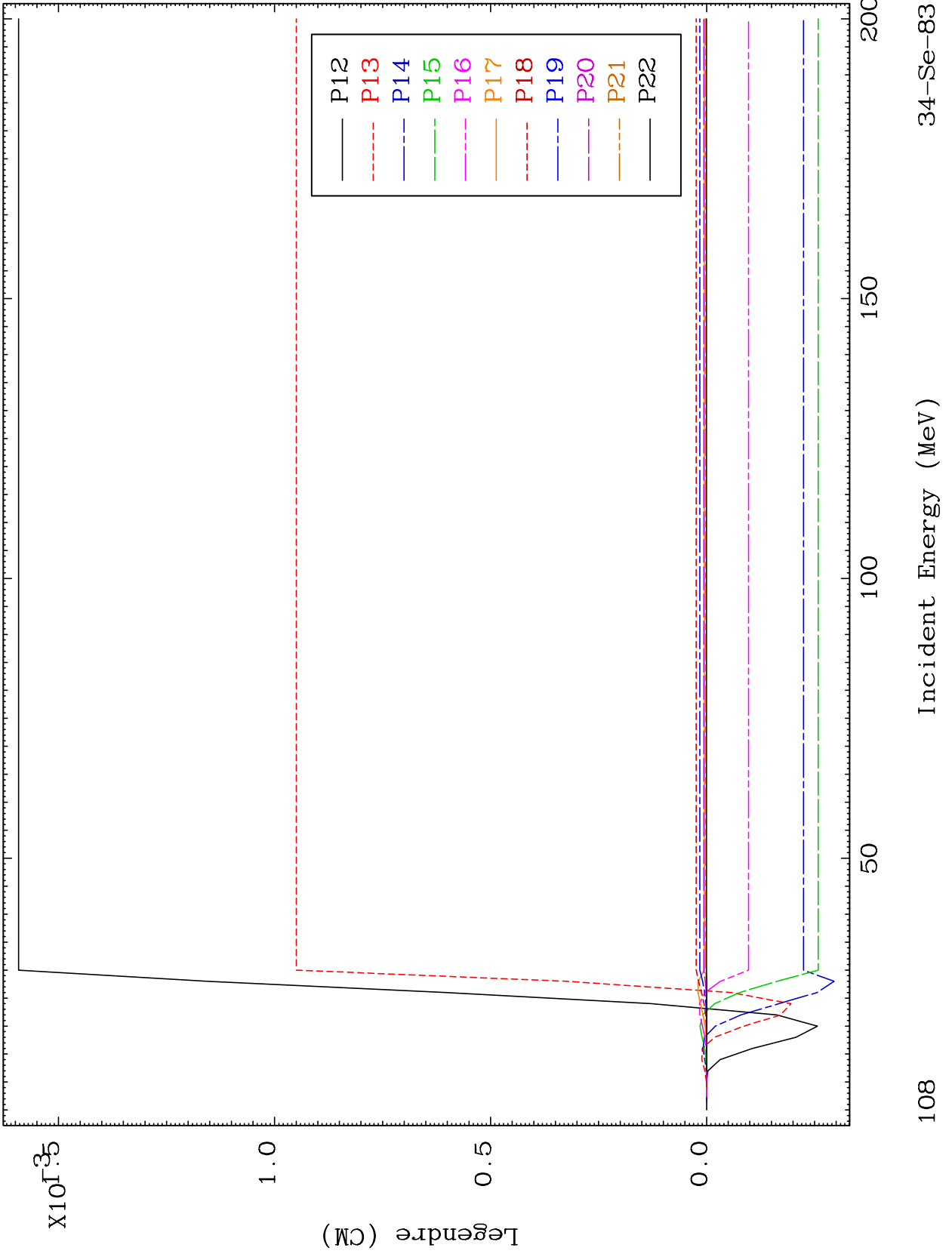
<sup>34</sup>Se-83



<sup>34</sup>Se-83

Incident Energy (MeV)

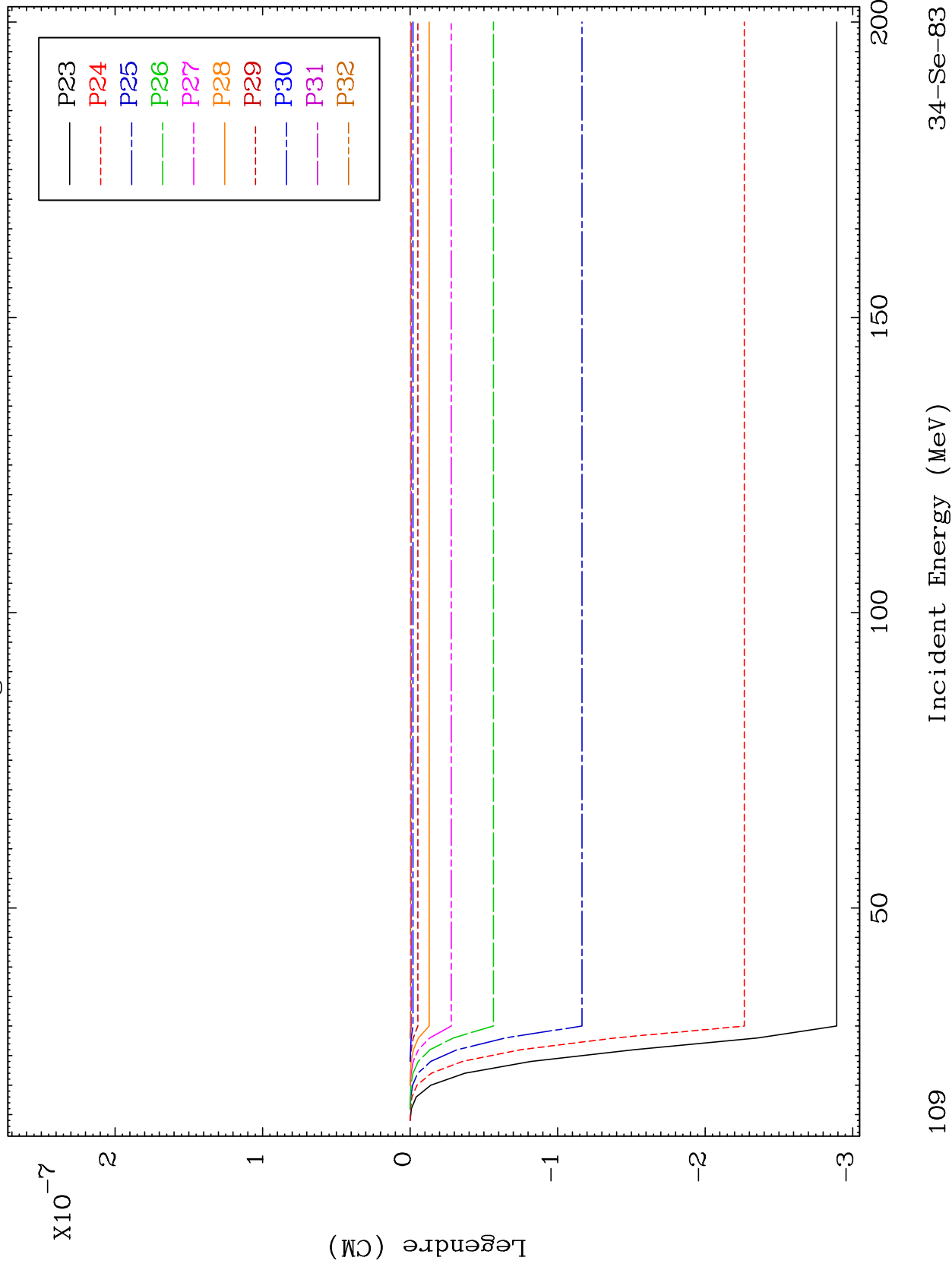
107



MAT 3452

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

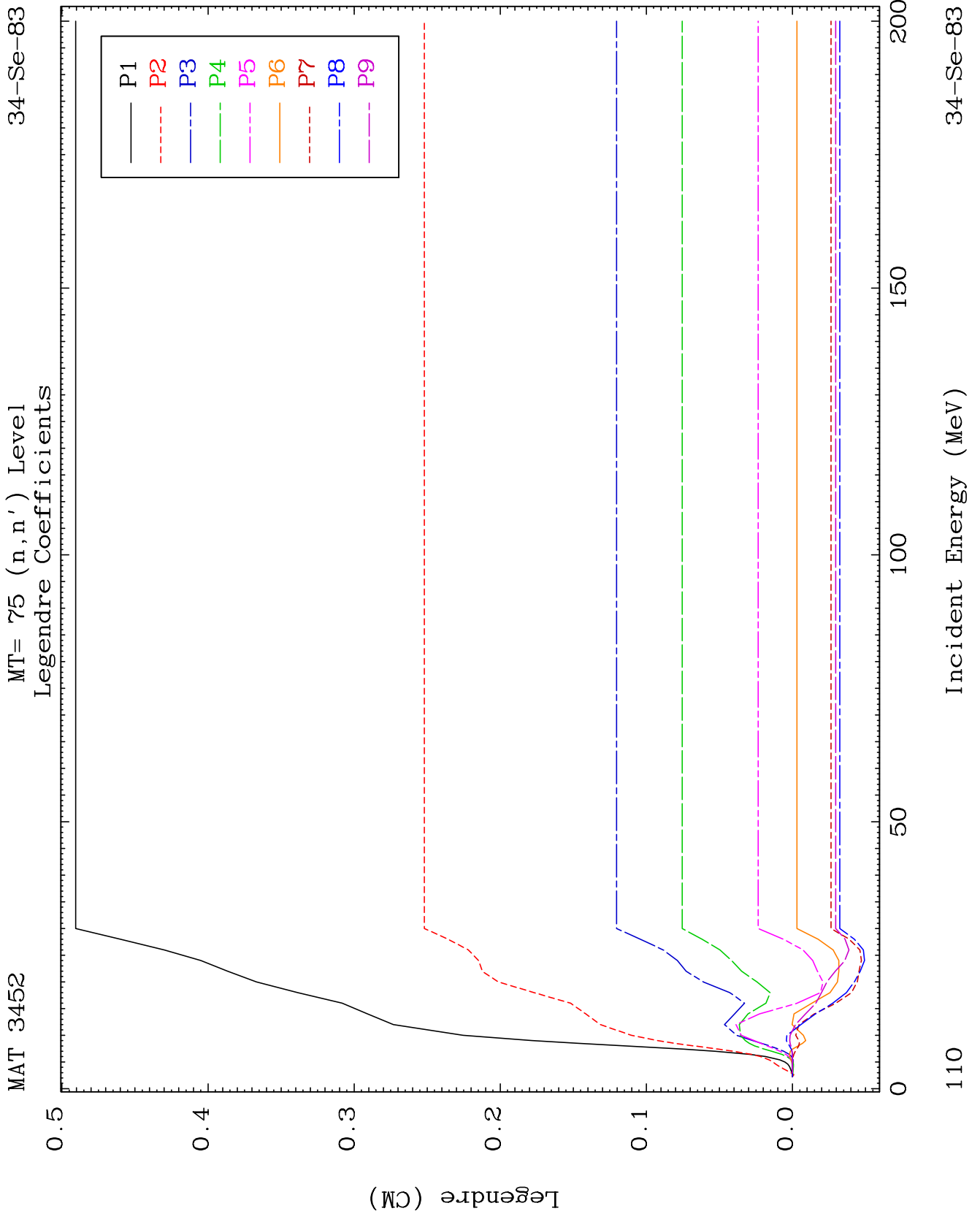
<sup>34</sup>Se-83



109

Incident Energy (MeV)

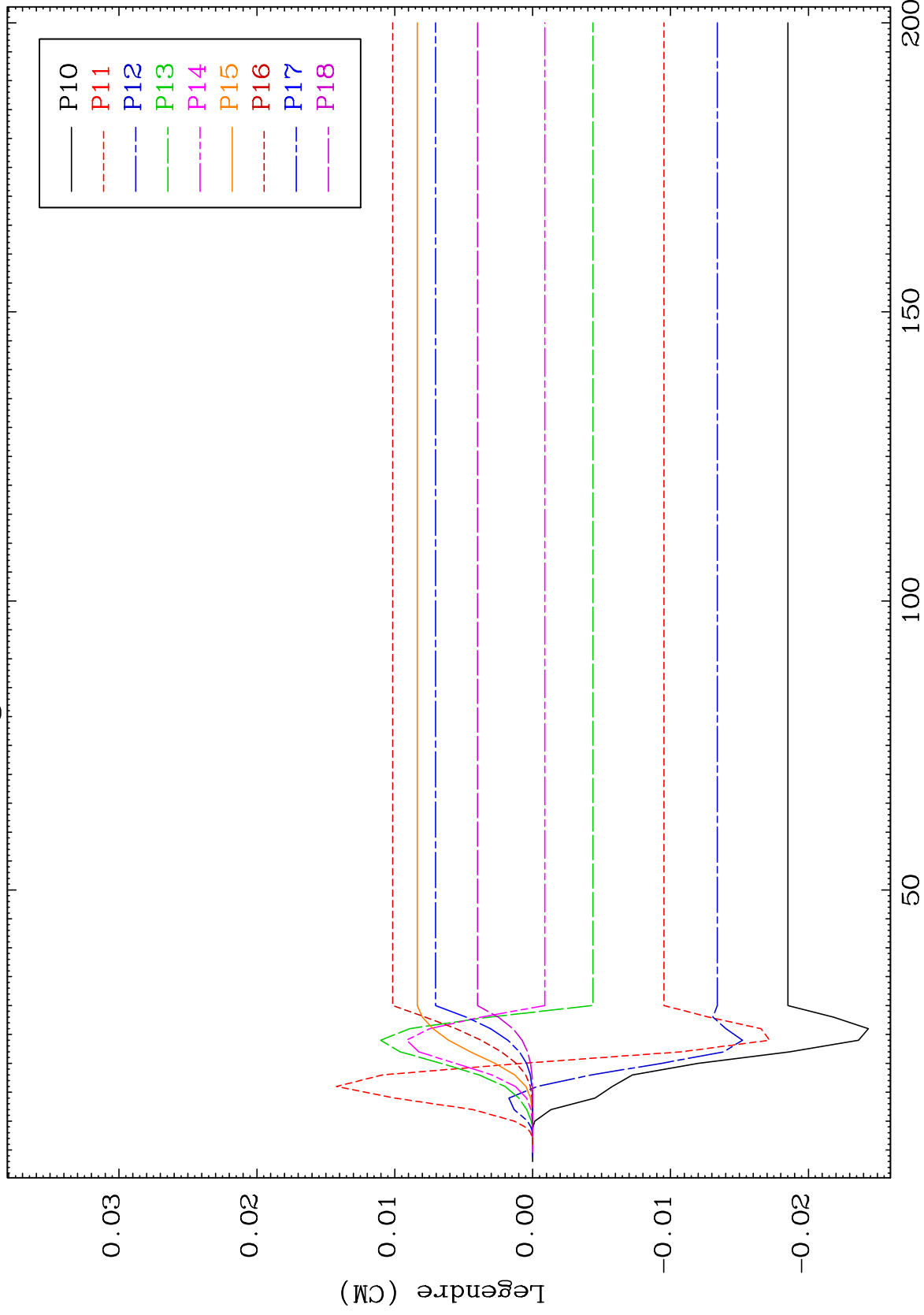
<sup>34</sup>Se-83



MAT 3452

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

<sup>34</sup>Se-83



111

Incident Energy (MeV)

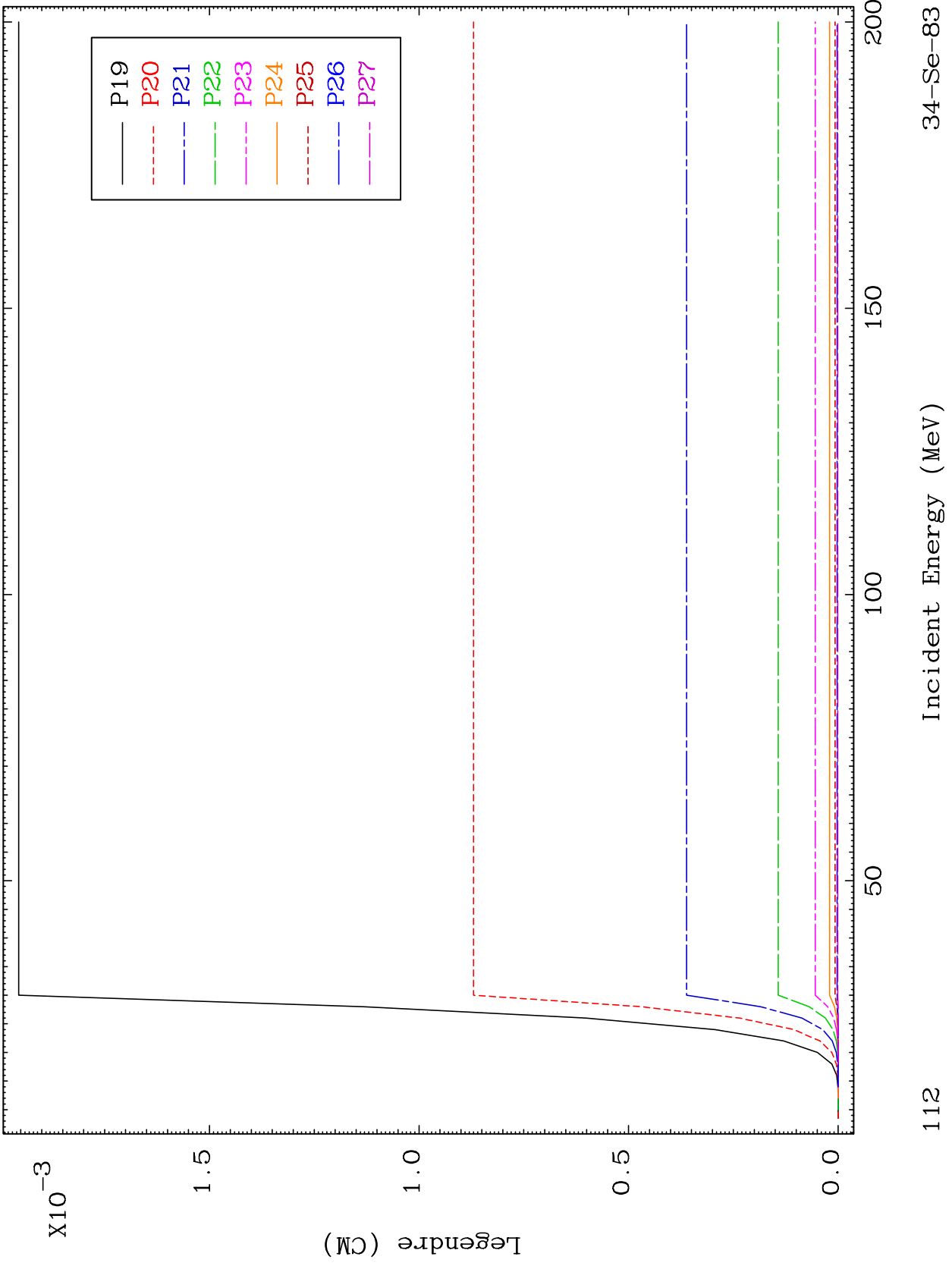
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



112

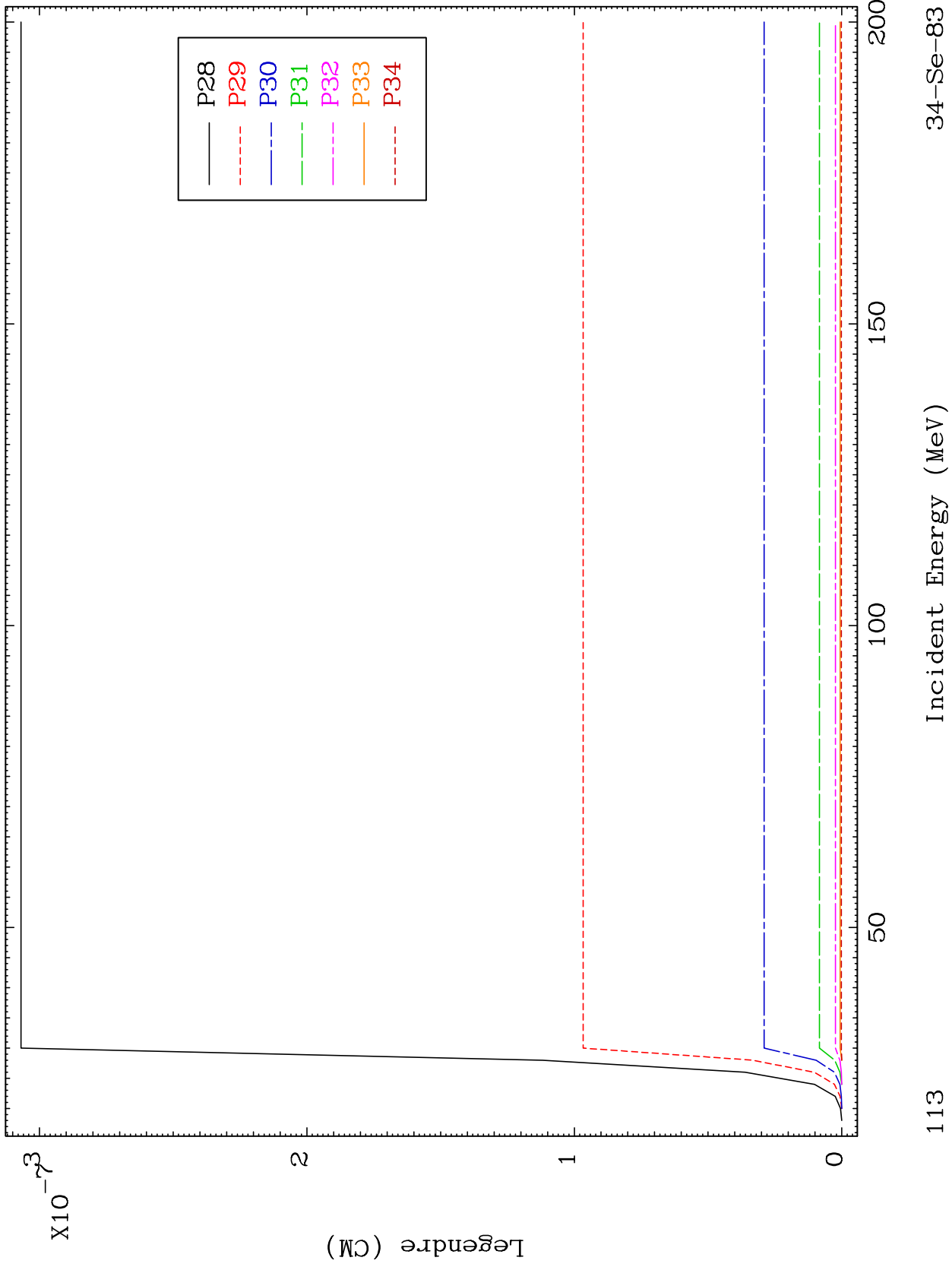
Incident Energy (MeV)

34-Se-83

MAT 3452

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

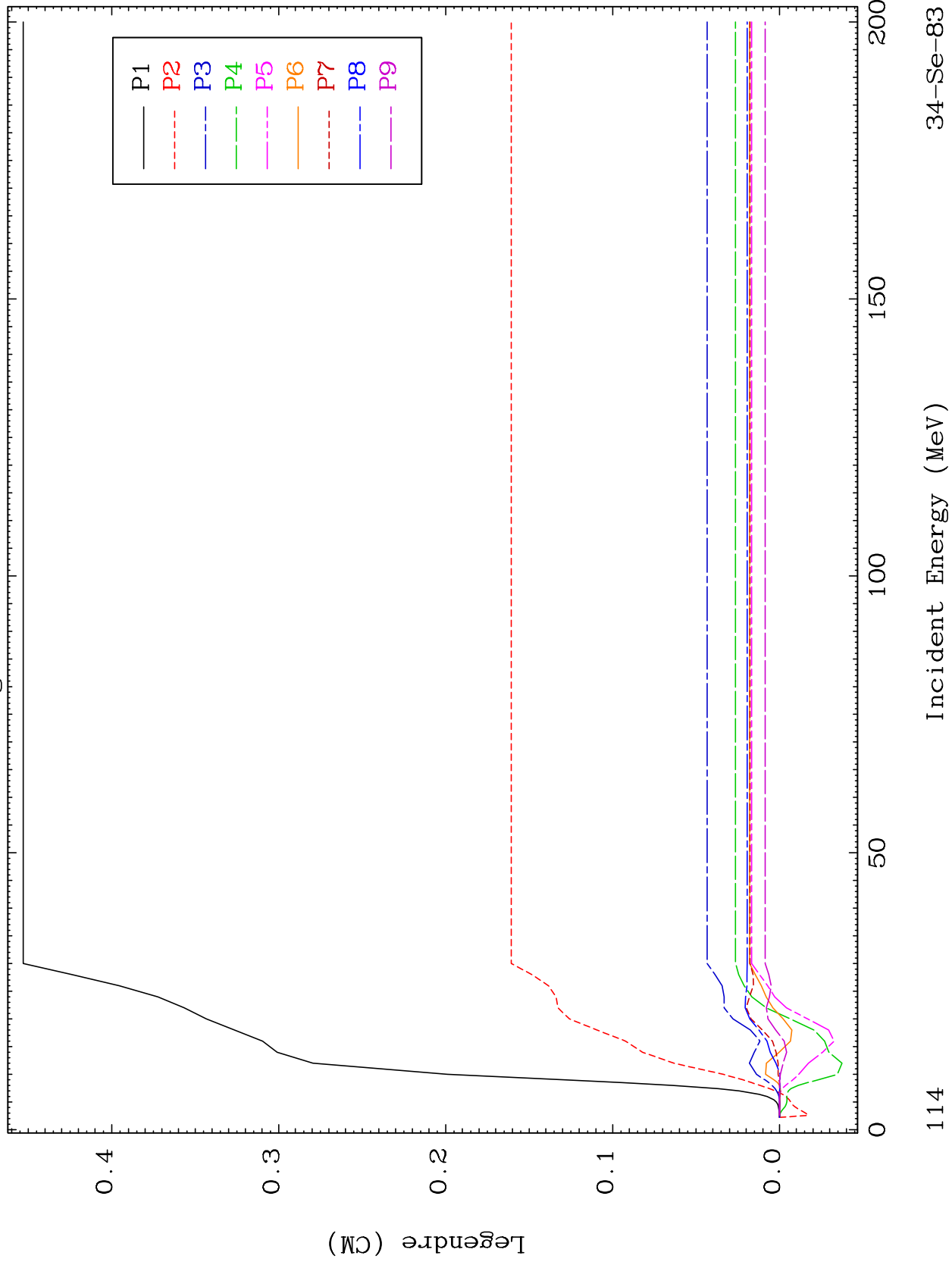
34-Se-83



MAT 3452

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

34-Se-83



34-Se-83

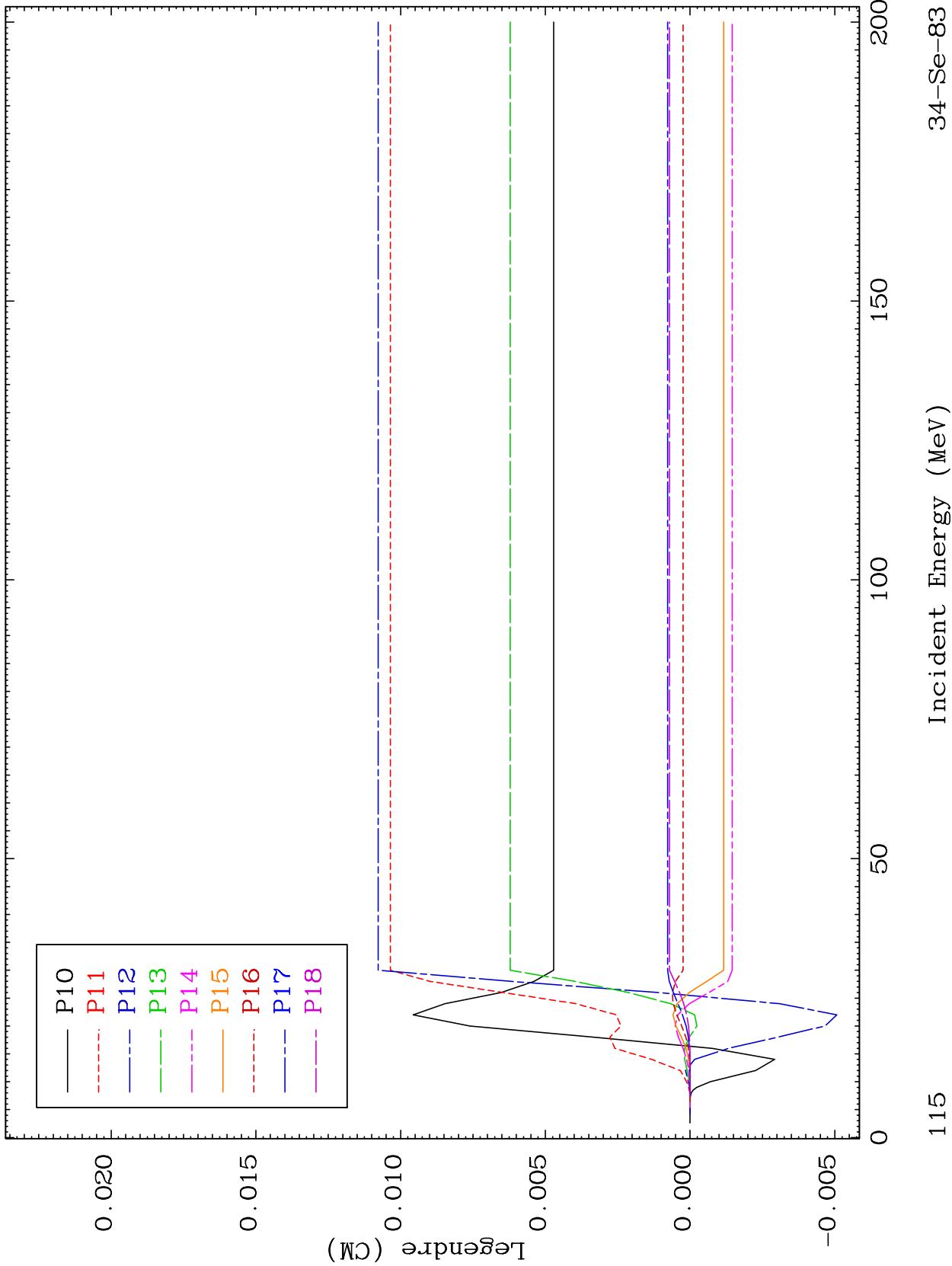
Incident Energy (MeV)

114

MAT 3452

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

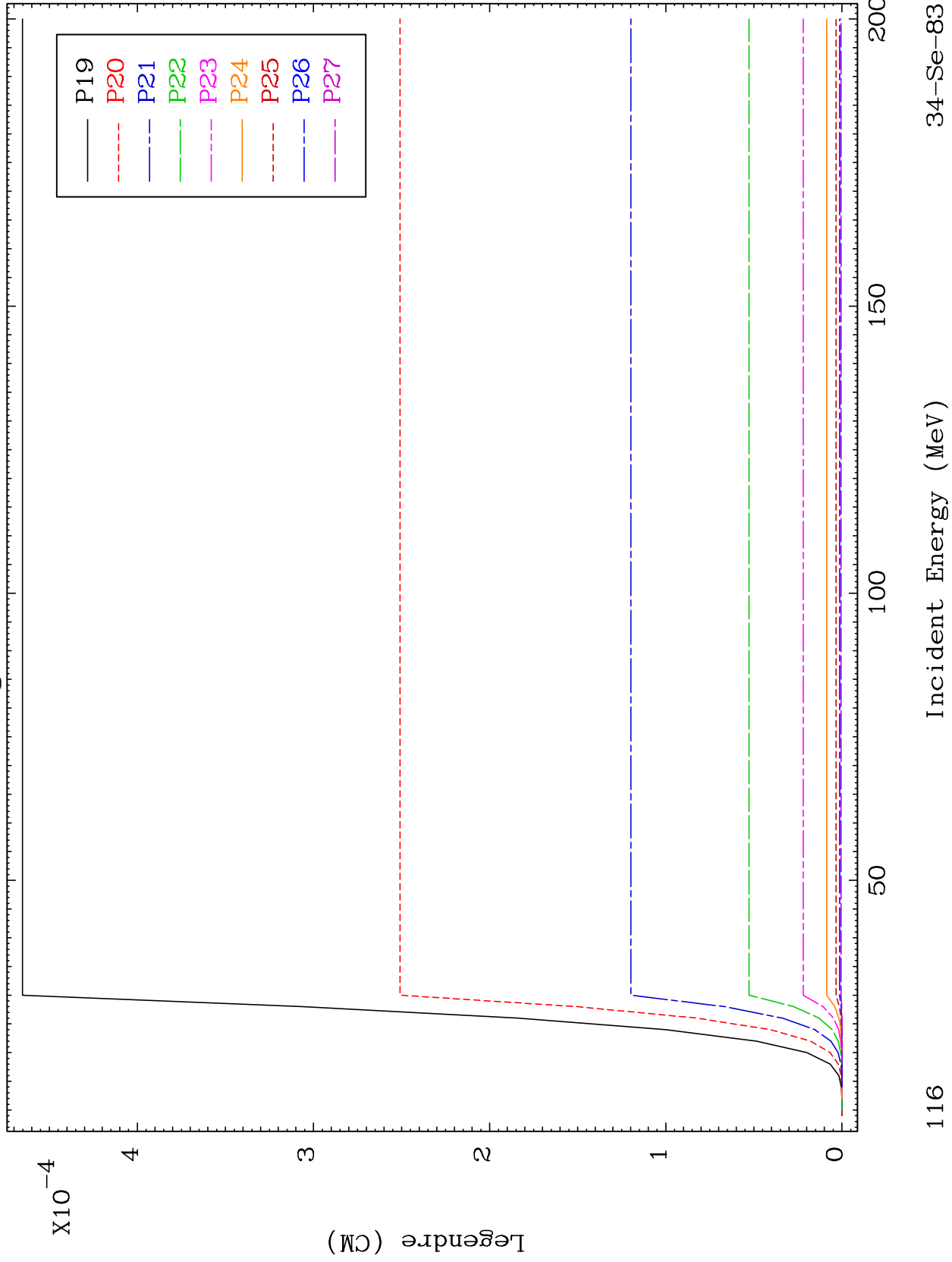
34-Se-83



MAT 3452

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

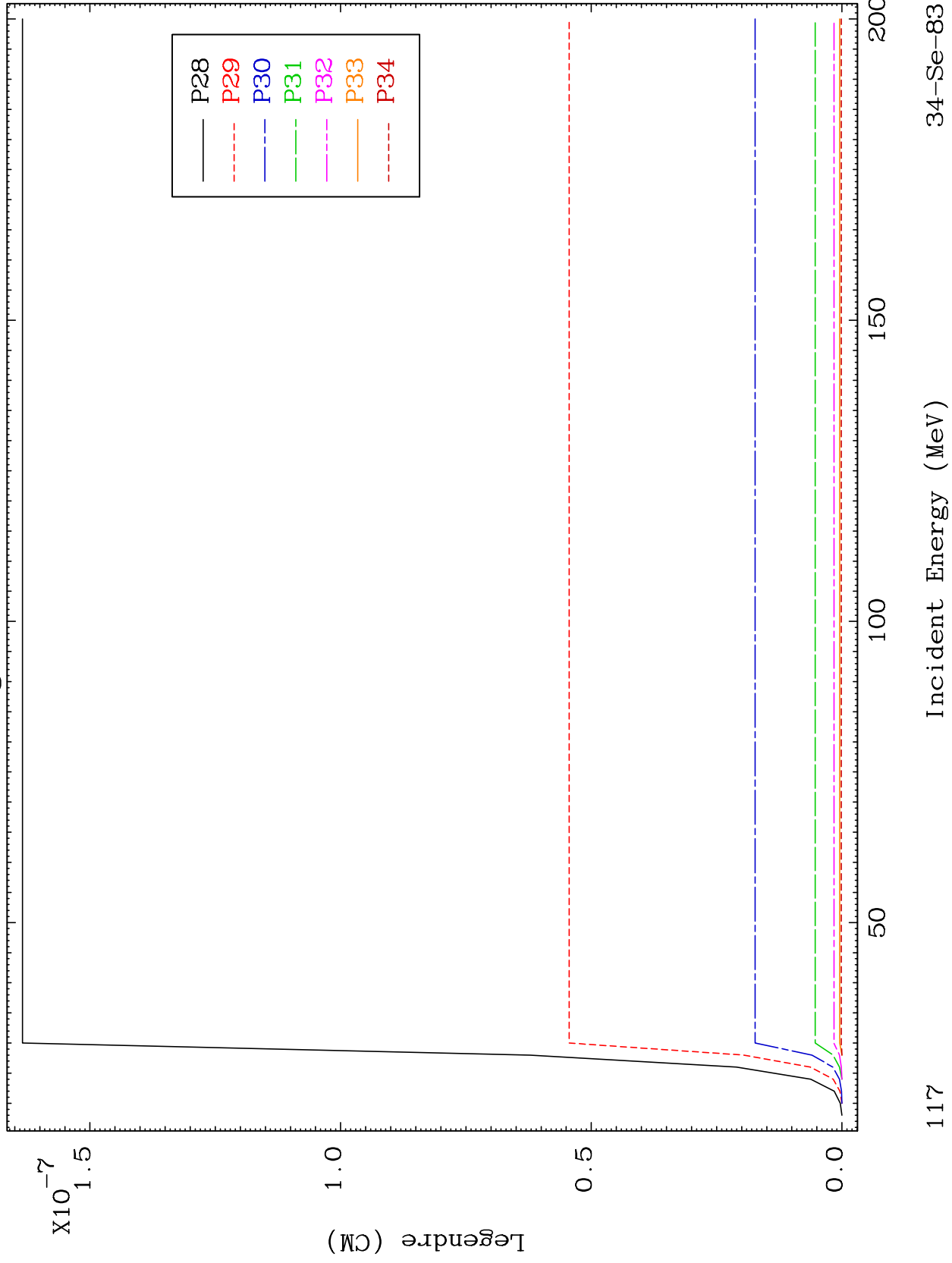
34-Se-83



MAT 3452

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

34-Se-83



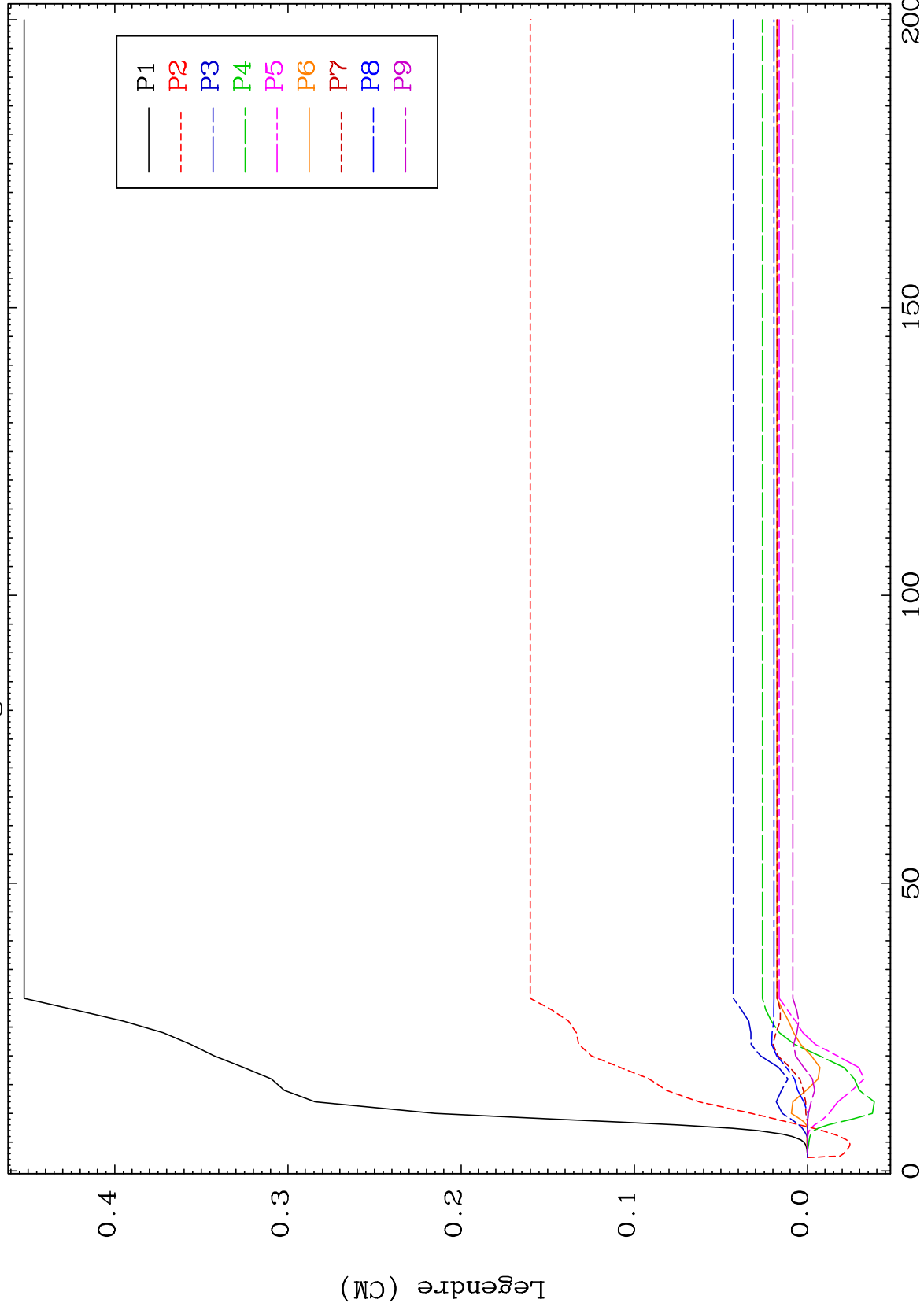
117

34-Se-83

MAT 3452

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

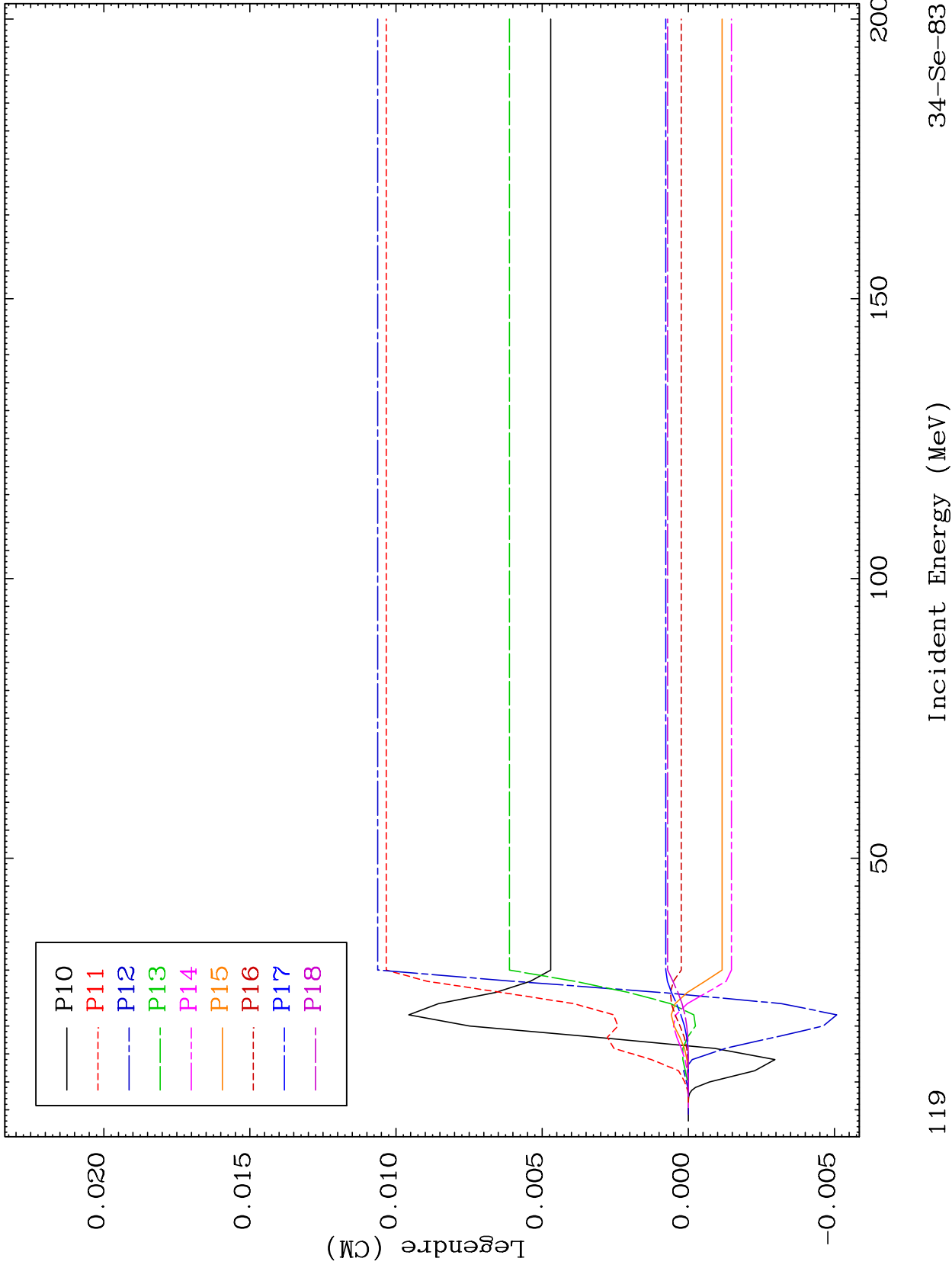
34-Se-83



118

Incident Energy (MeV)

34-Se-83

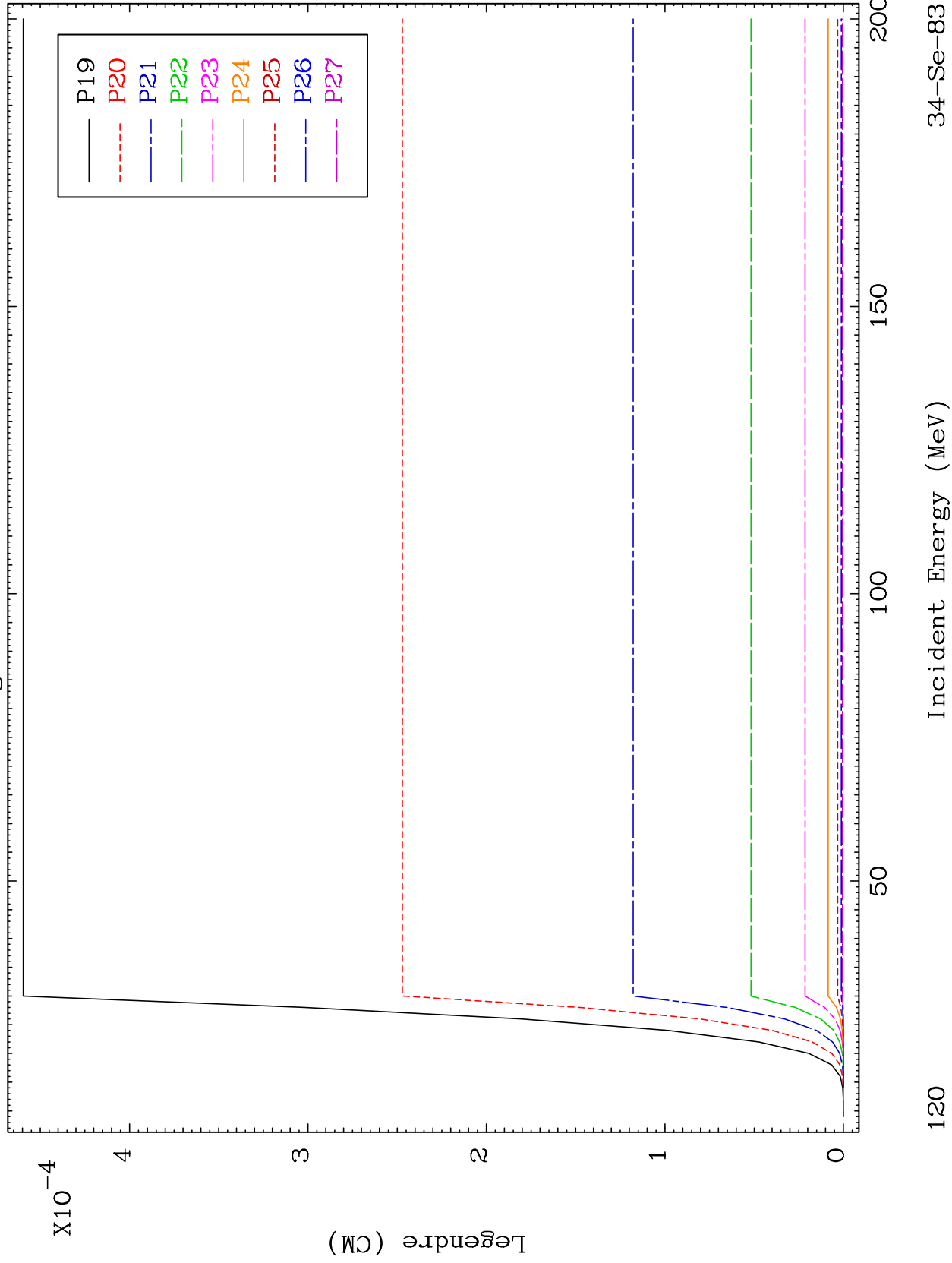




MAT 3452

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

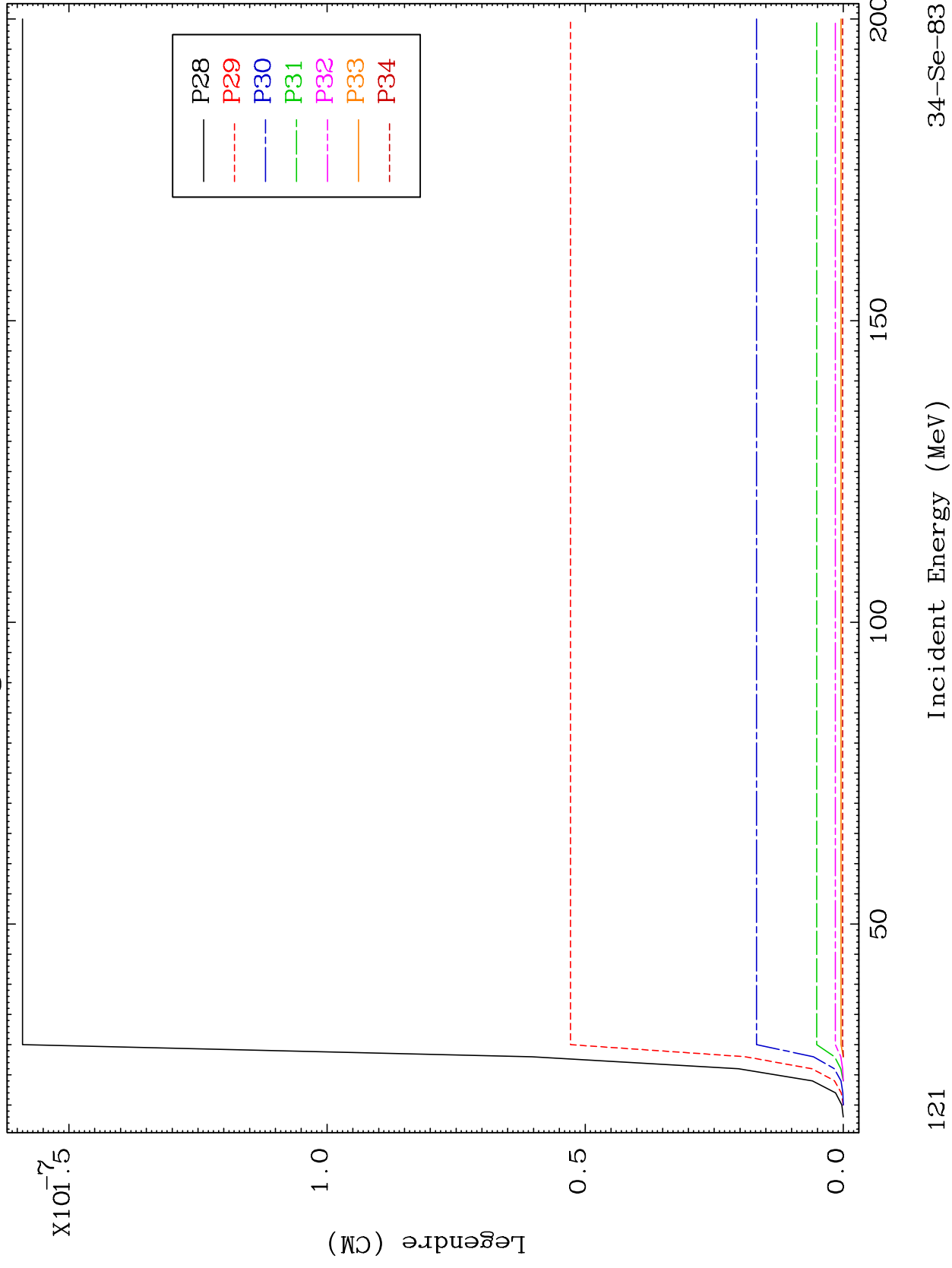
<sup>34</sup>Se-83



MAT 3452

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

34-Se-83



121

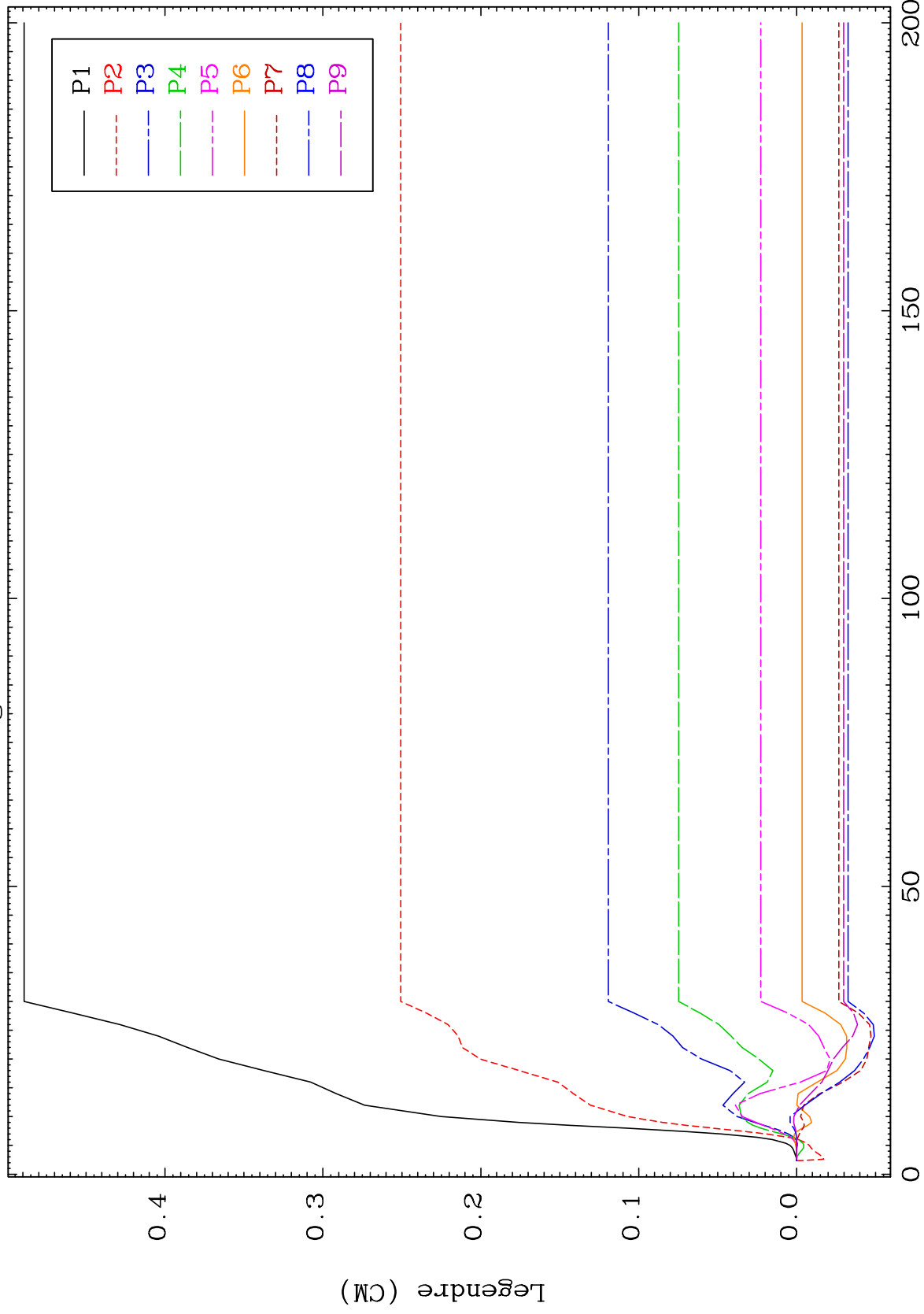
Incident Energy (MeV)

34-Se-83

MAT 3452

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

<sup>34</sup>Se-83



122

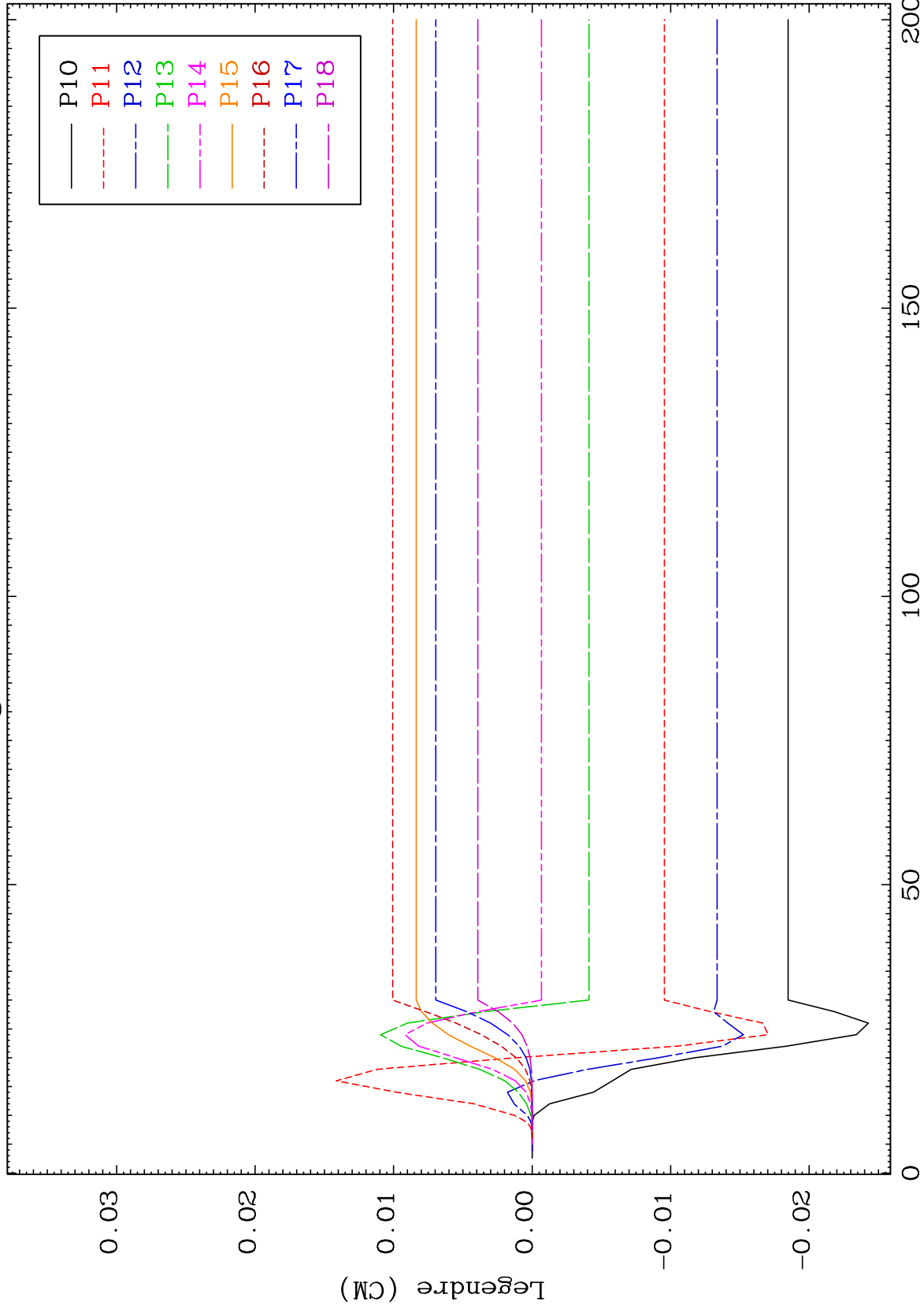
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

<sup>34</sup>Se-83



123

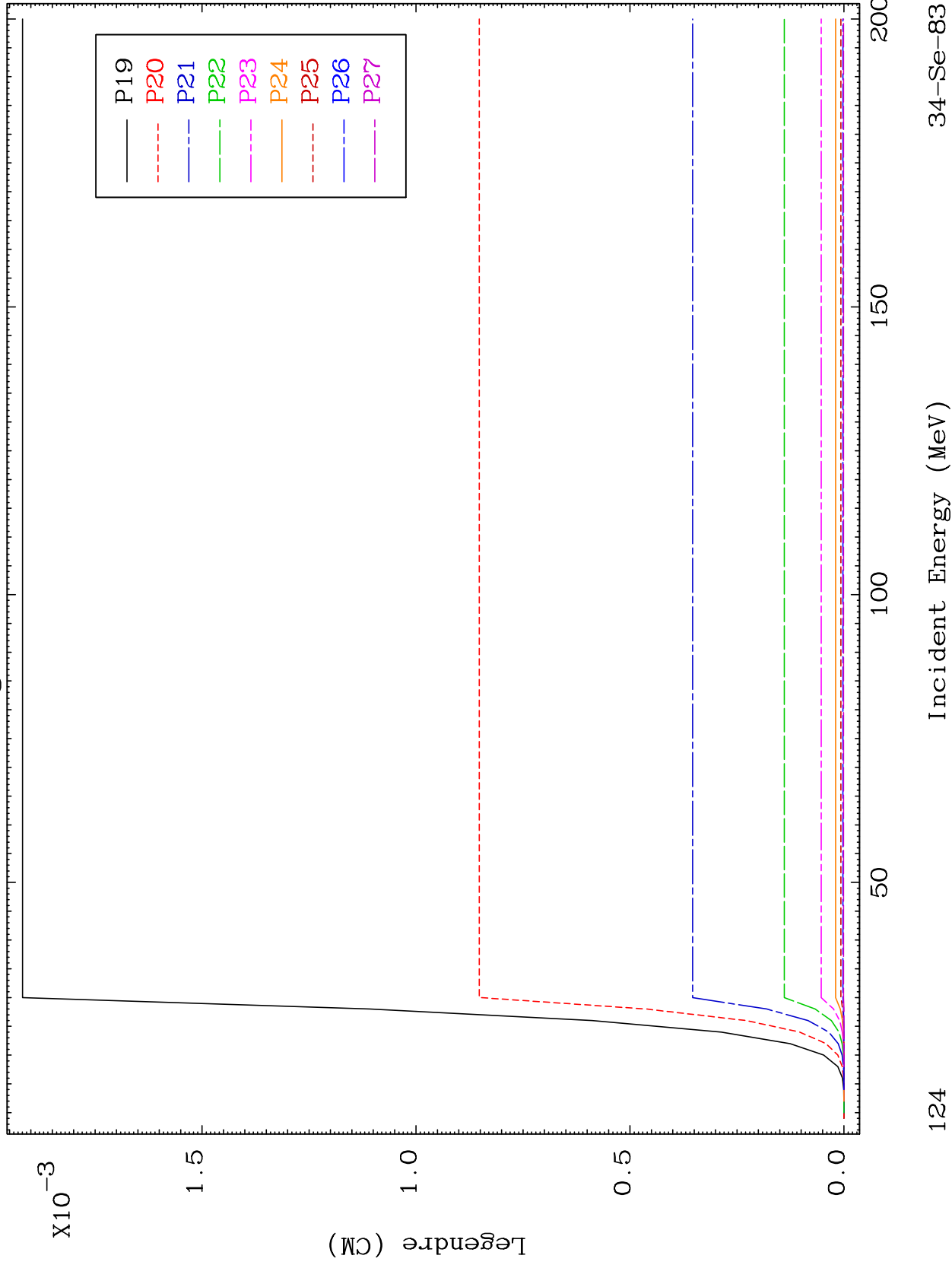
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

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

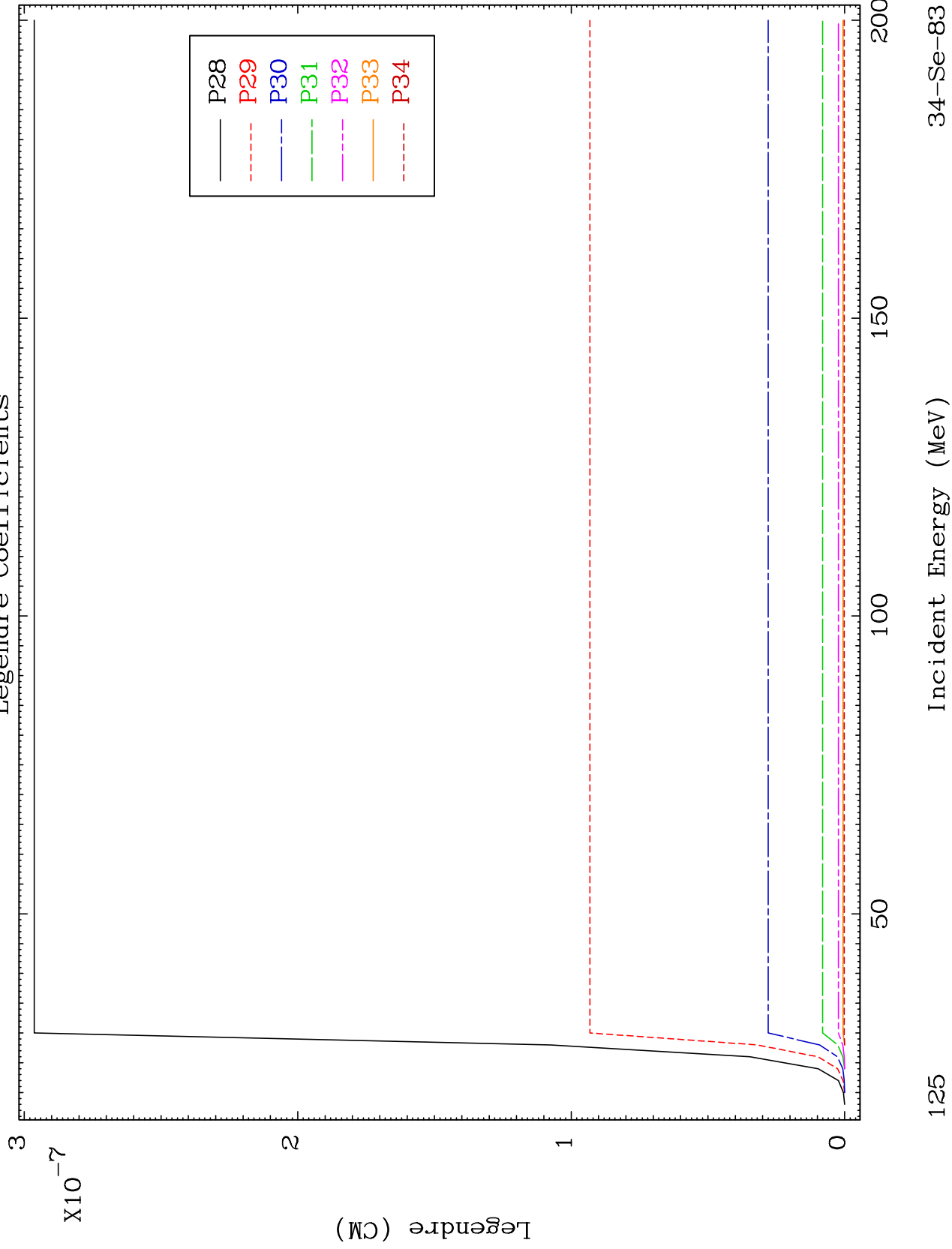
<sup>34</sup>Se-83



MAT 3452

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

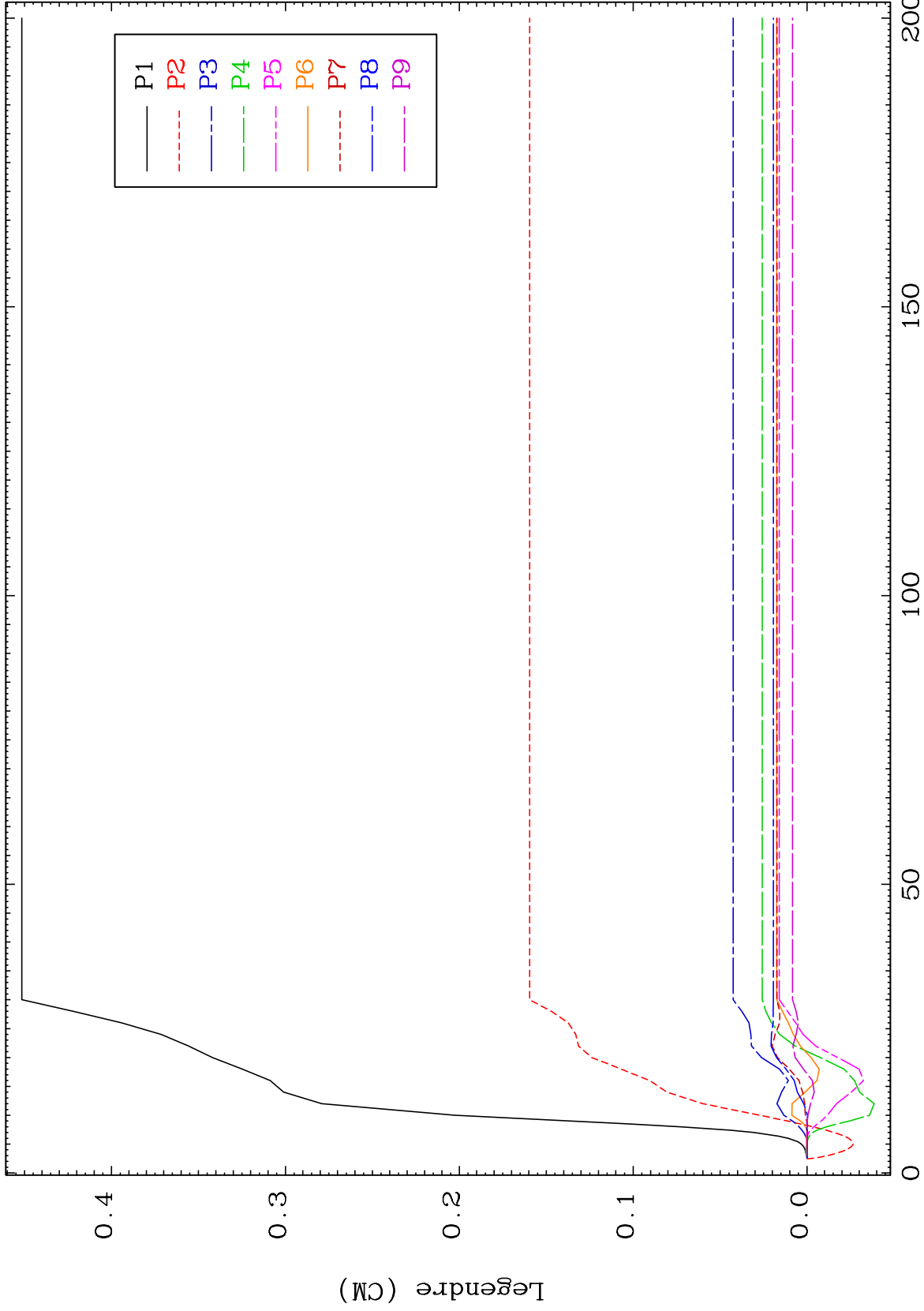
34-Se-83



MAT 3452

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

34-Se-83



126

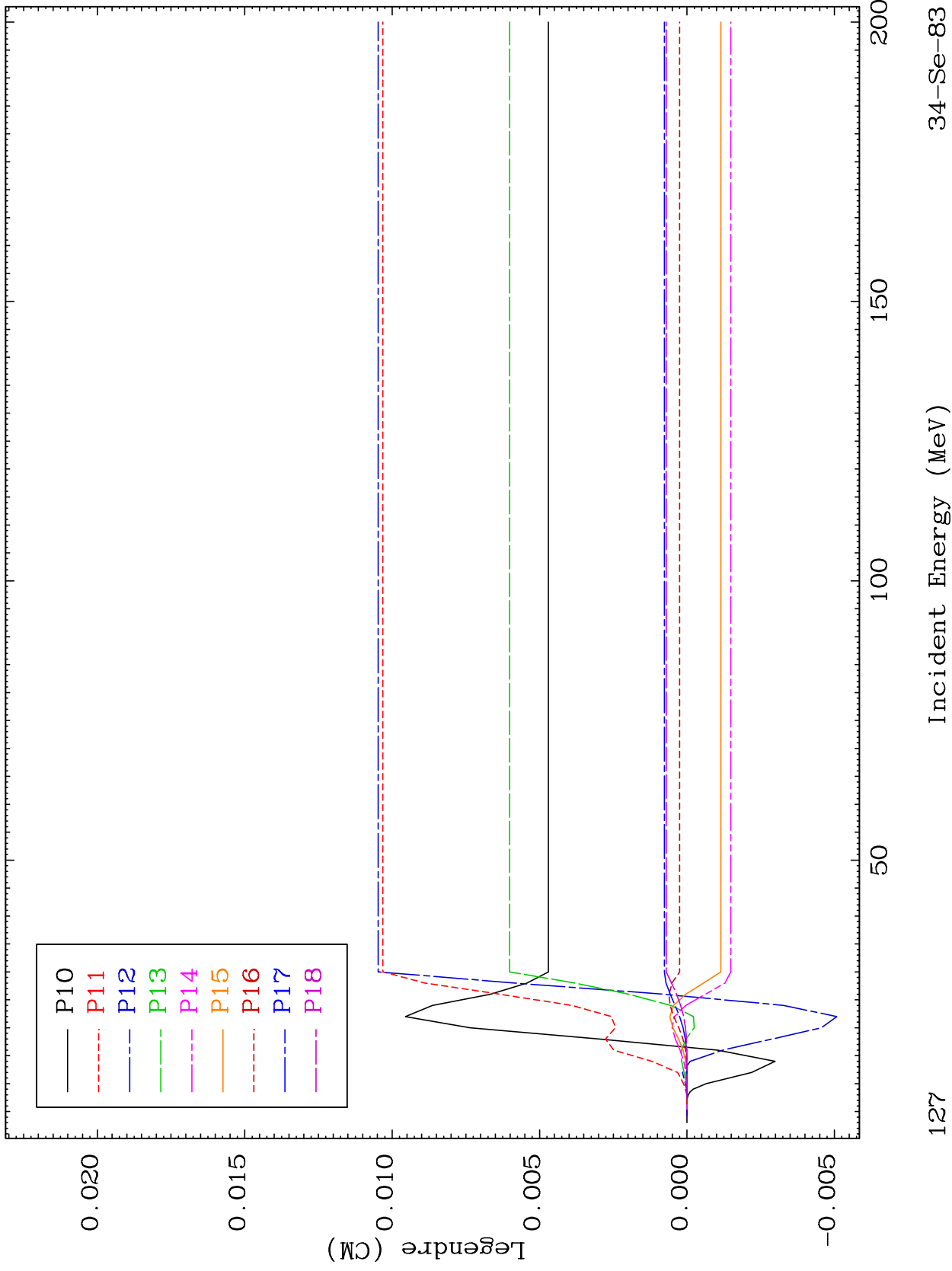
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83

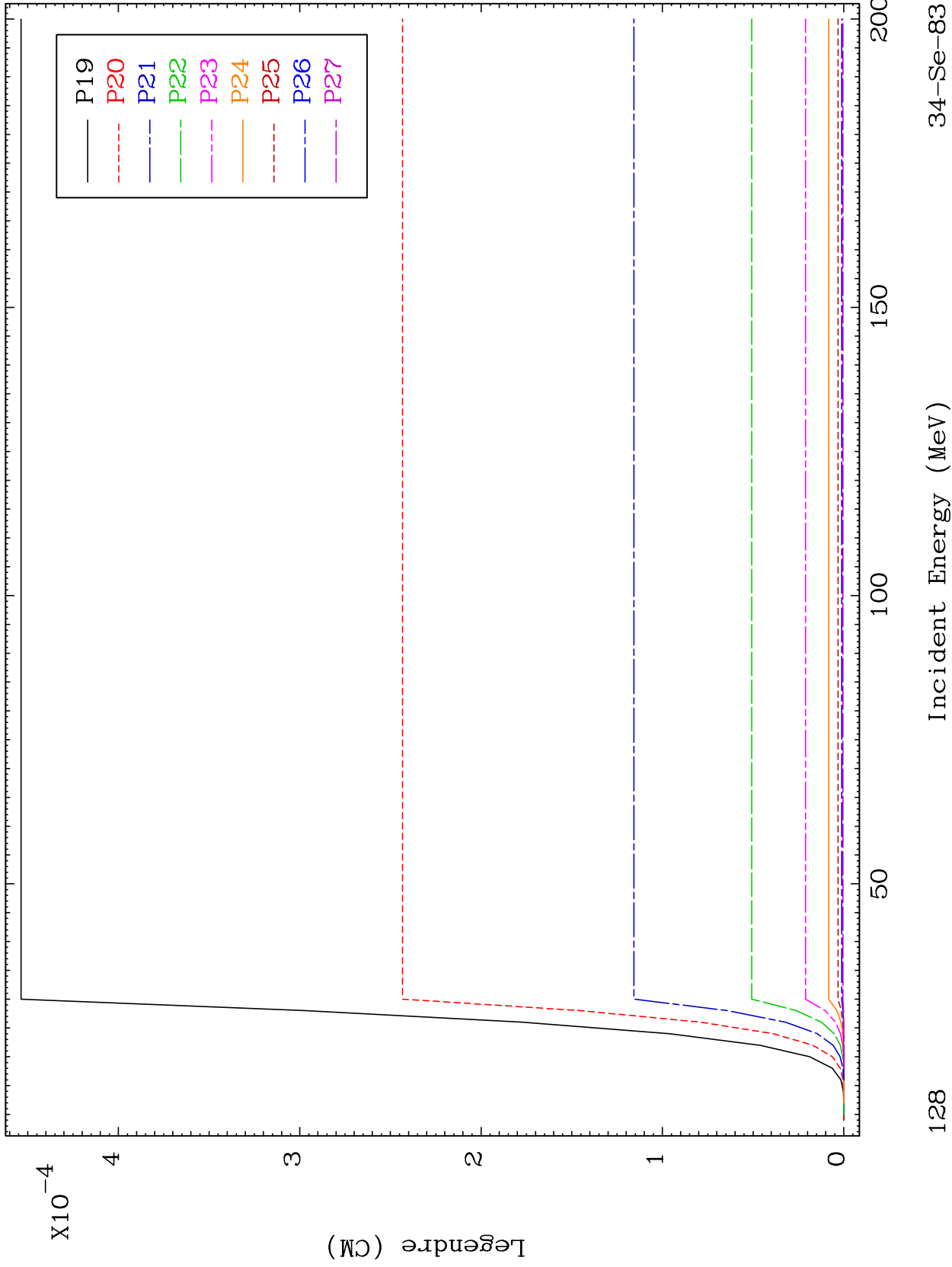




MAT 3452

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

<sup>34</sup>Se-83



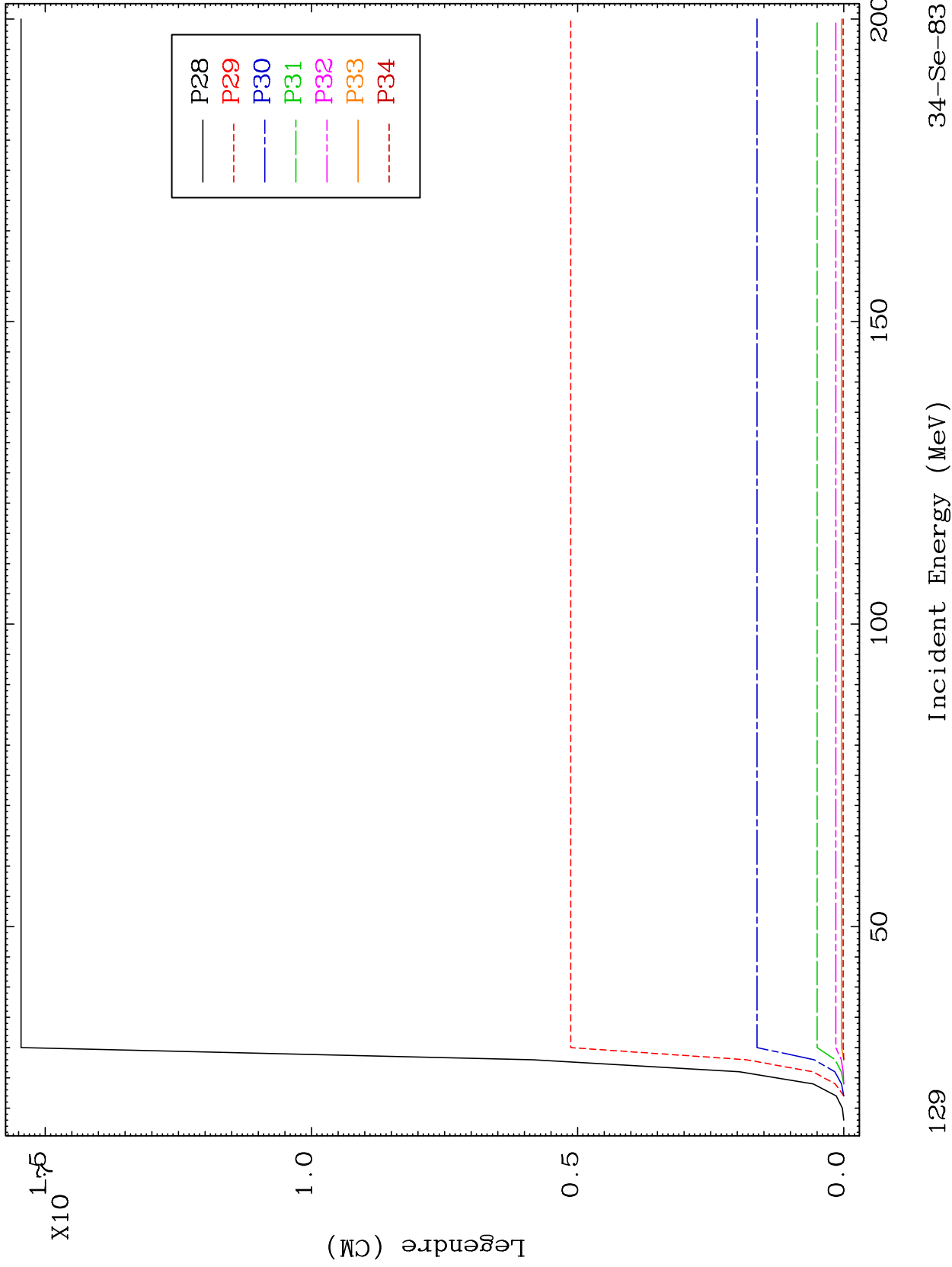
128

<sup>34</sup>Se-83

MAT 3452

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

34-Se-83



129

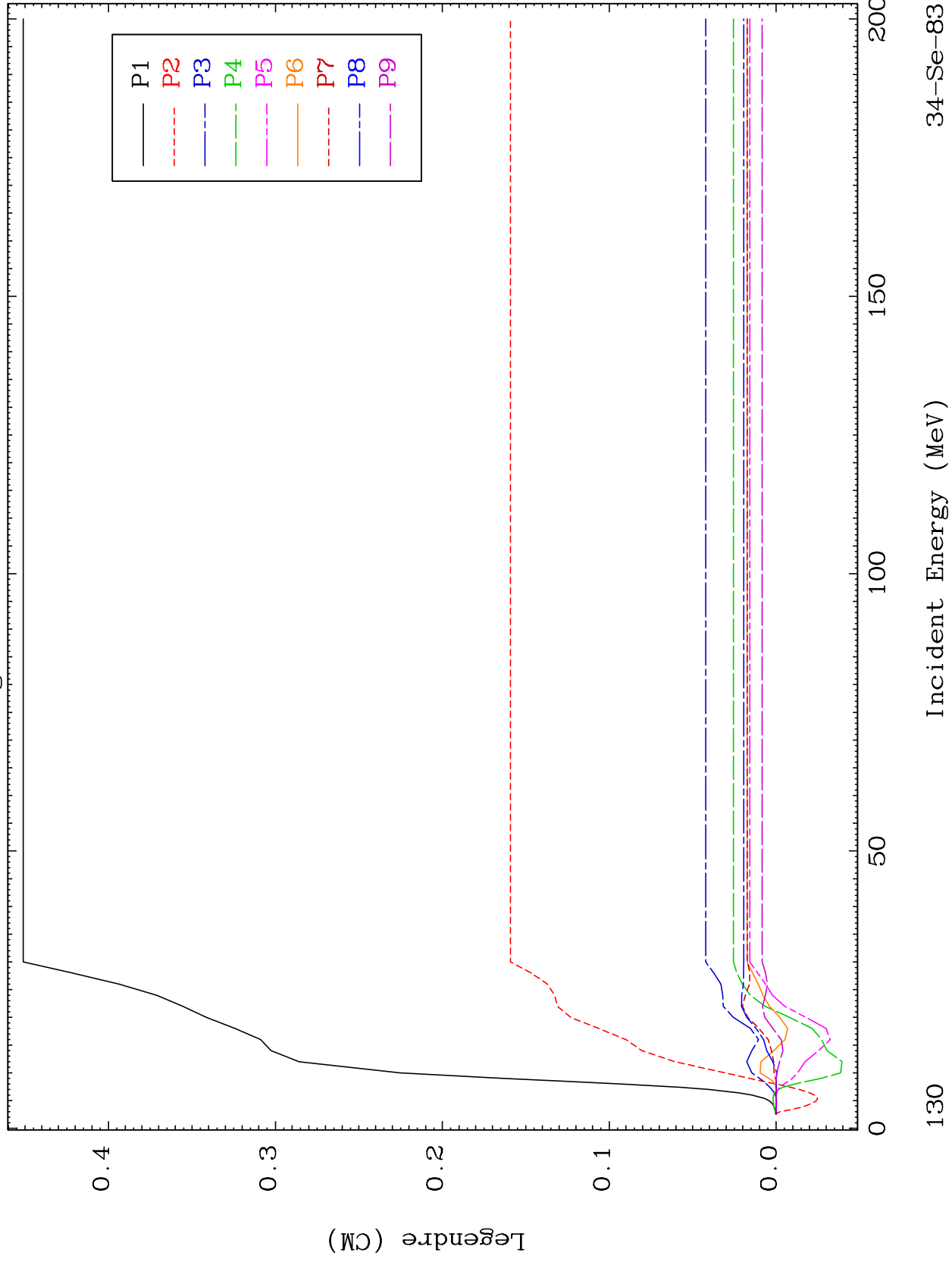
Incident Energy (MeV)

34-Se-83

MAT 3452

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

34-Se-83



34-Se-83

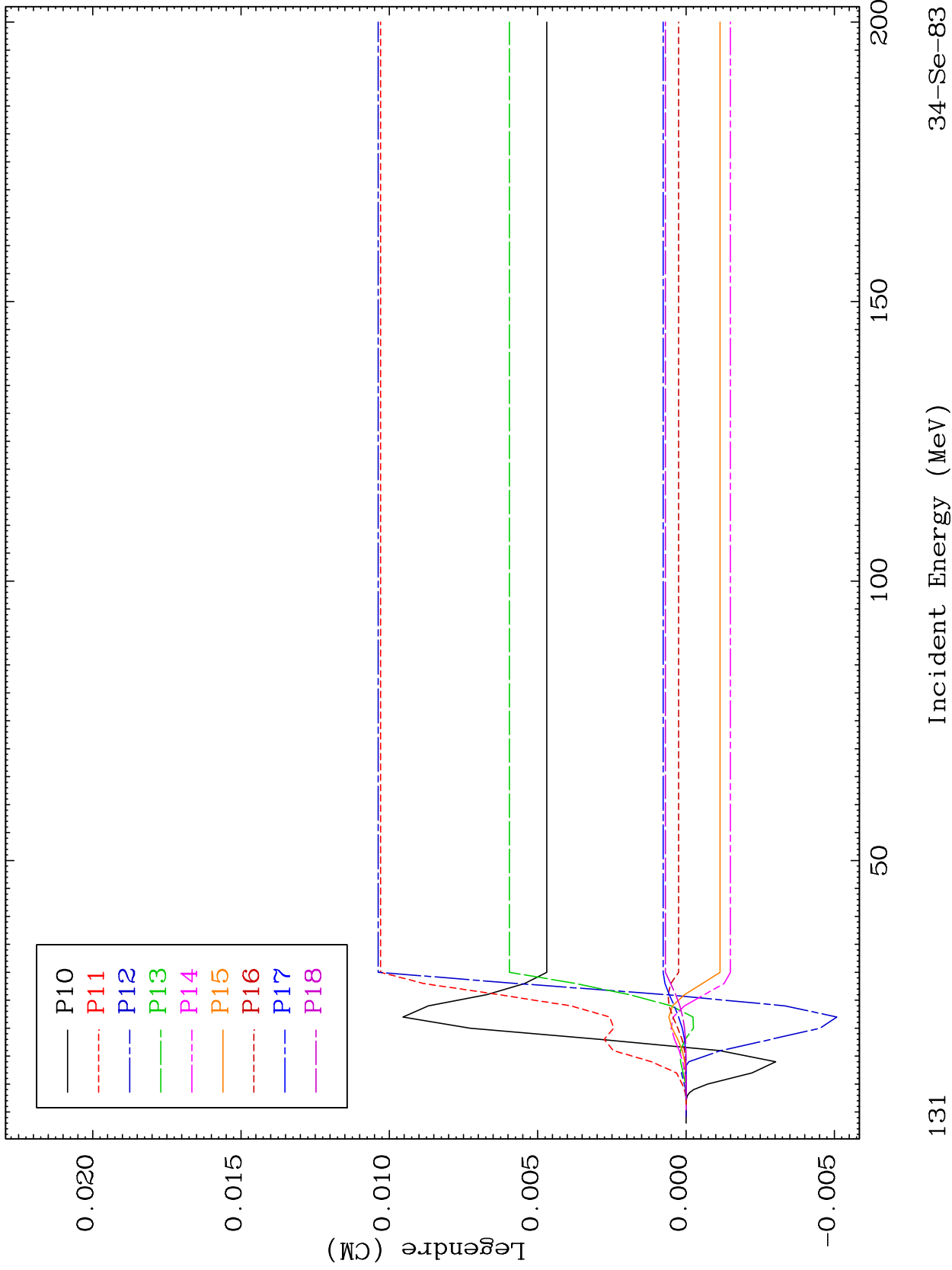
Incident Energy (MeV)

130

MAT 3452

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

34-Se-83



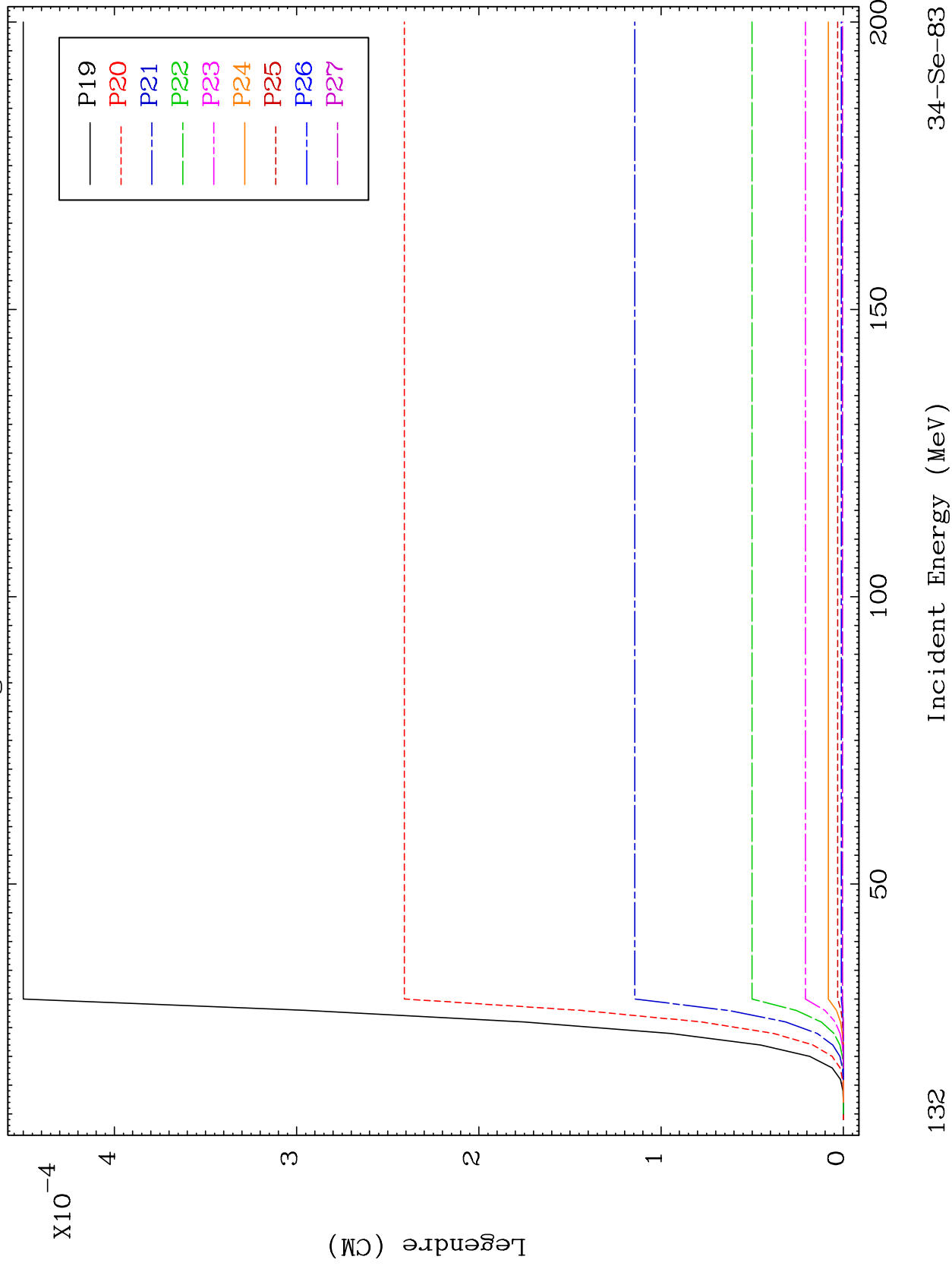
131

34-Se-83

MAT 3452

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

34-Se-83



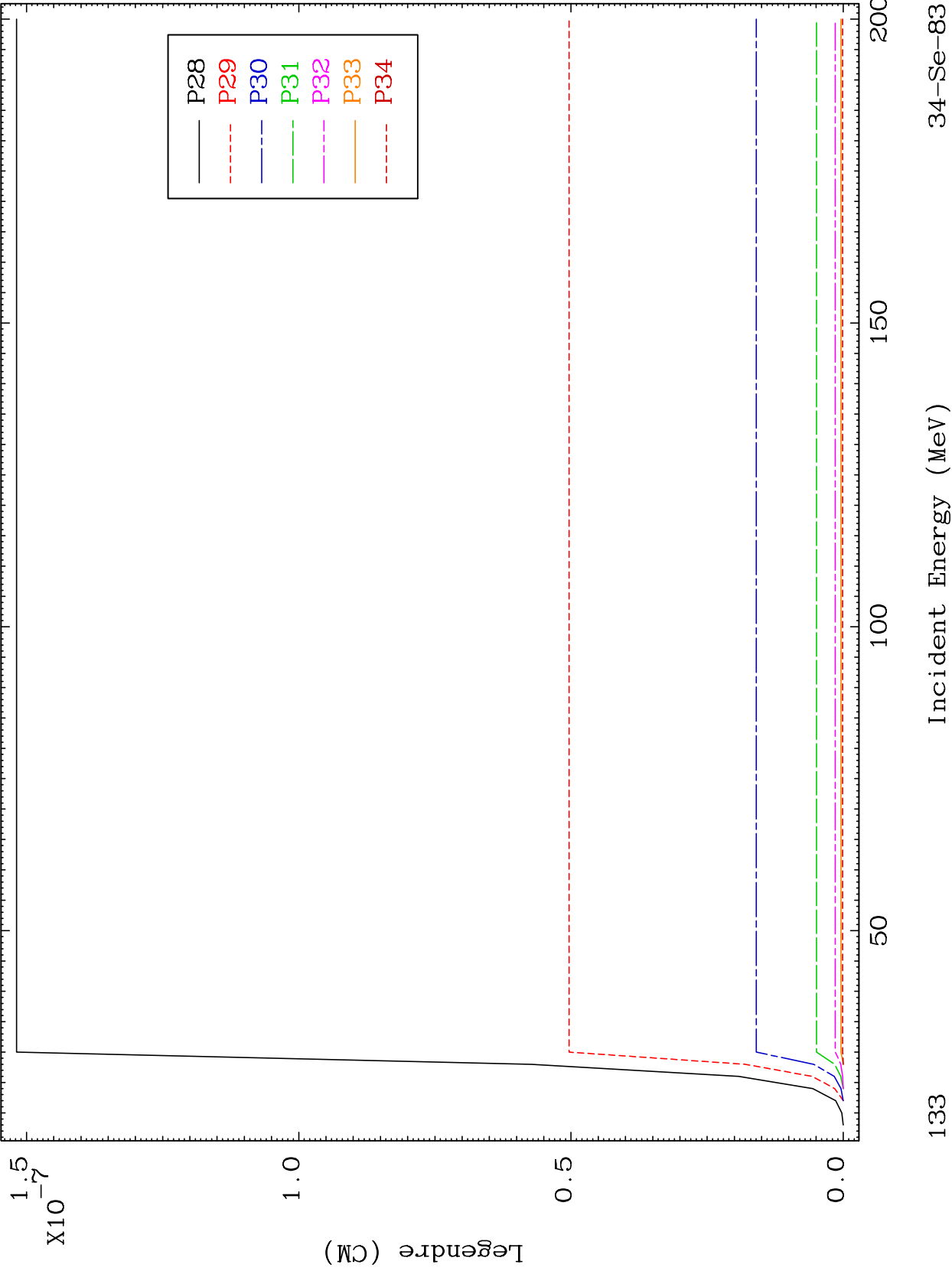
132

34-Se-83

MAT 3452

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

34-Se-83

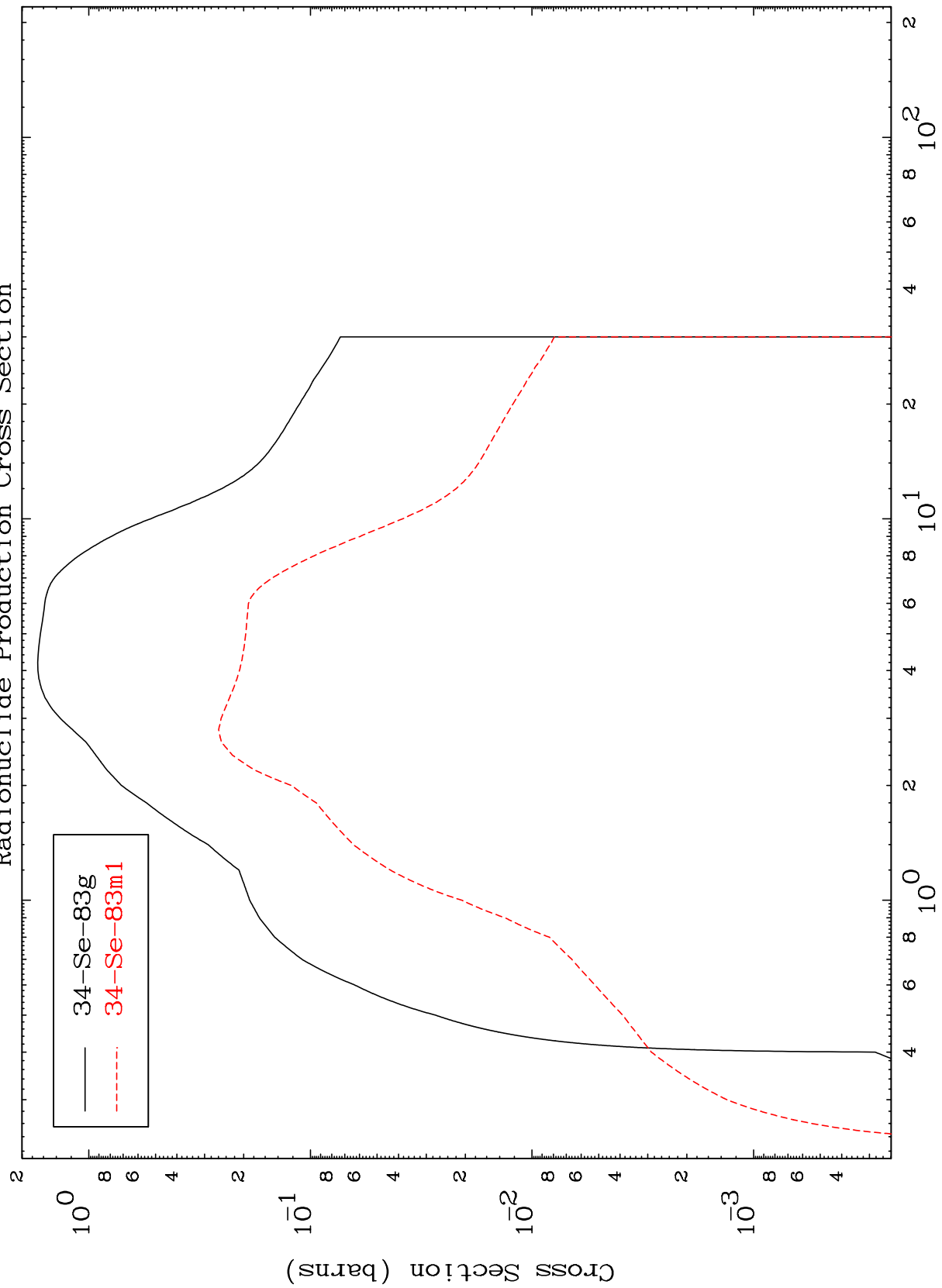


133

MAT 3452

<sup>34</sup>Se-83

### Radionuclide Production Cross Section



— 34-Se-83g  
- - - 34-Se-83m1

134

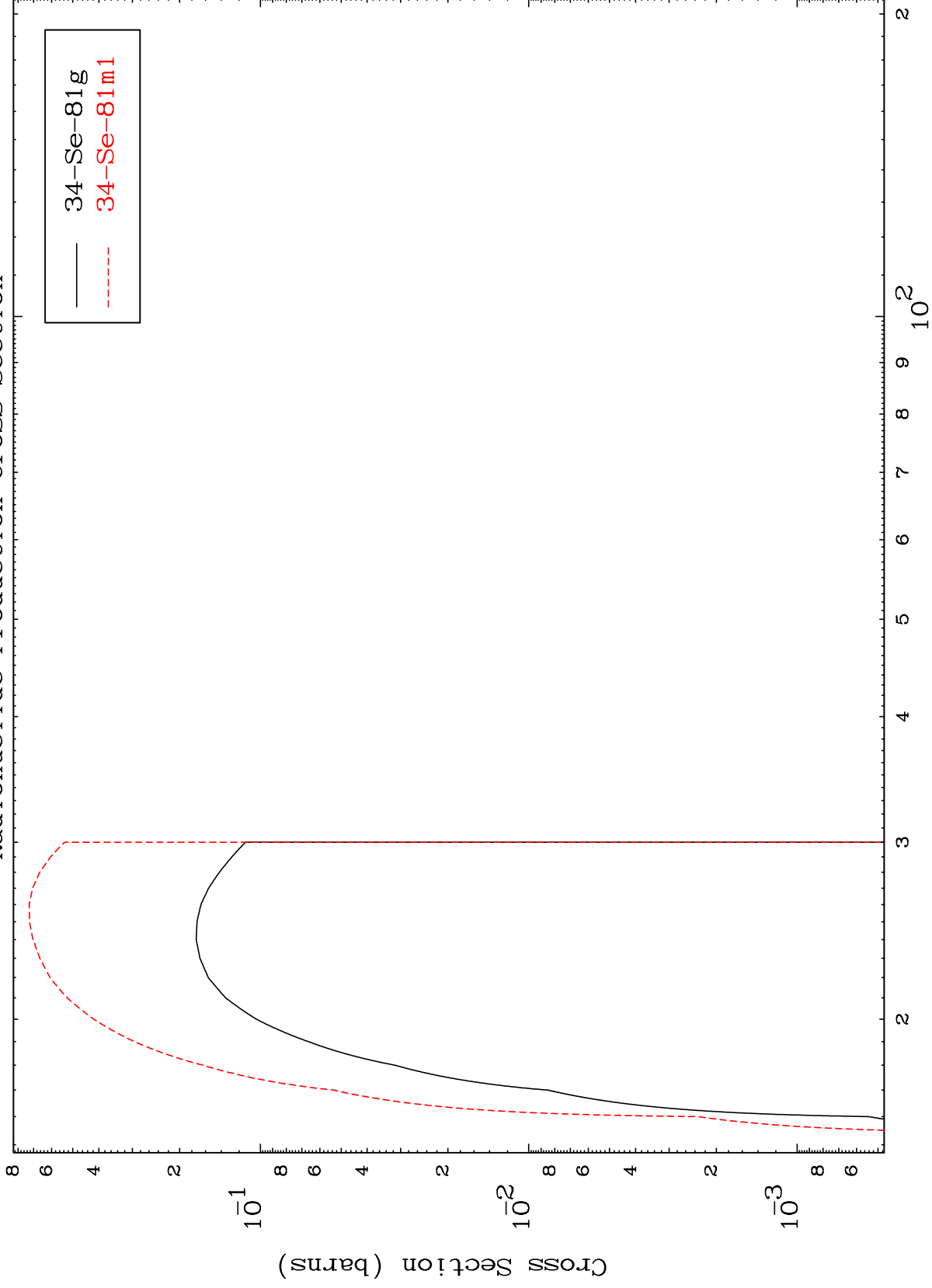
Incident Energy (MeV)

<sup>34</sup>Se-83

MAT 3452

<sup>34</sup>Se-83

(n,3n)  
Radionuclide Production Cross Section



135

Incident Energy (MeV)

<sup>34</sup>Se-83

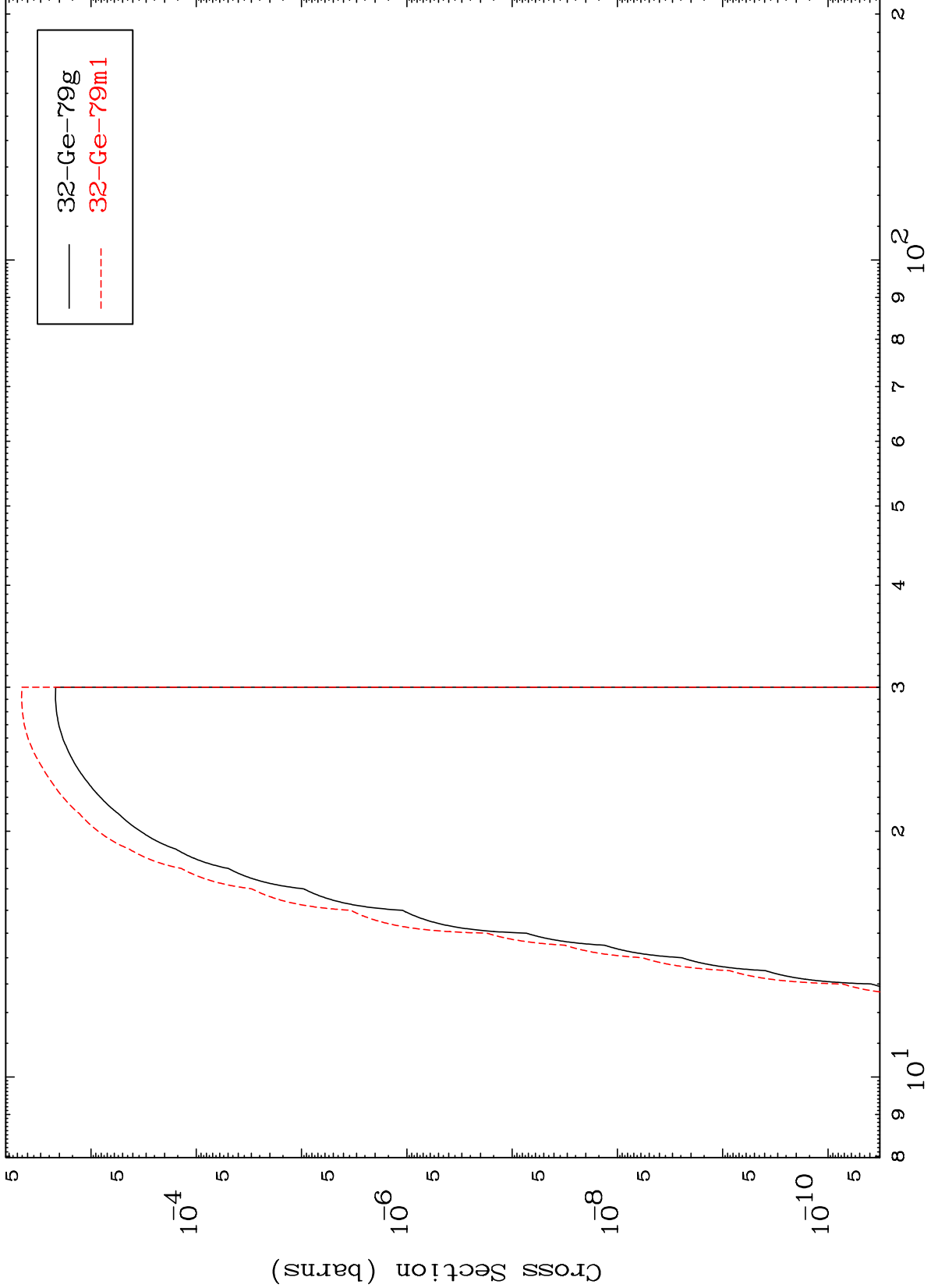


MAT 3452

$(n, n') \alpha$

34-<sup>Se-83</sup>

Radionuclide Production Cross Section



136

Incident Energy (MeV)

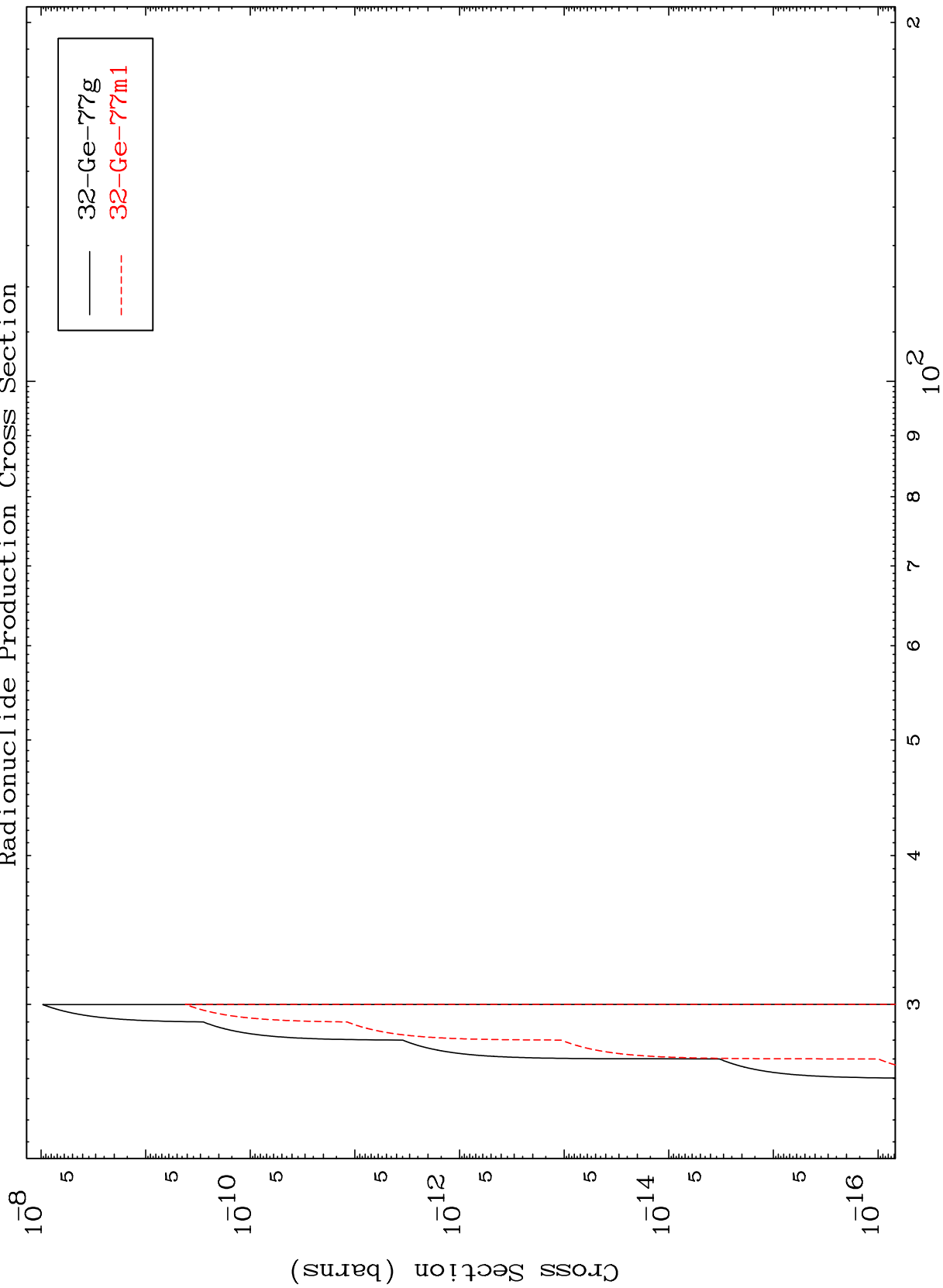
34-<sup>Se-83</sup>

MAT 3452

(n,3n)  $\alpha$

<sup>34</sup>Se-83

Radionuclide Production Cross Section

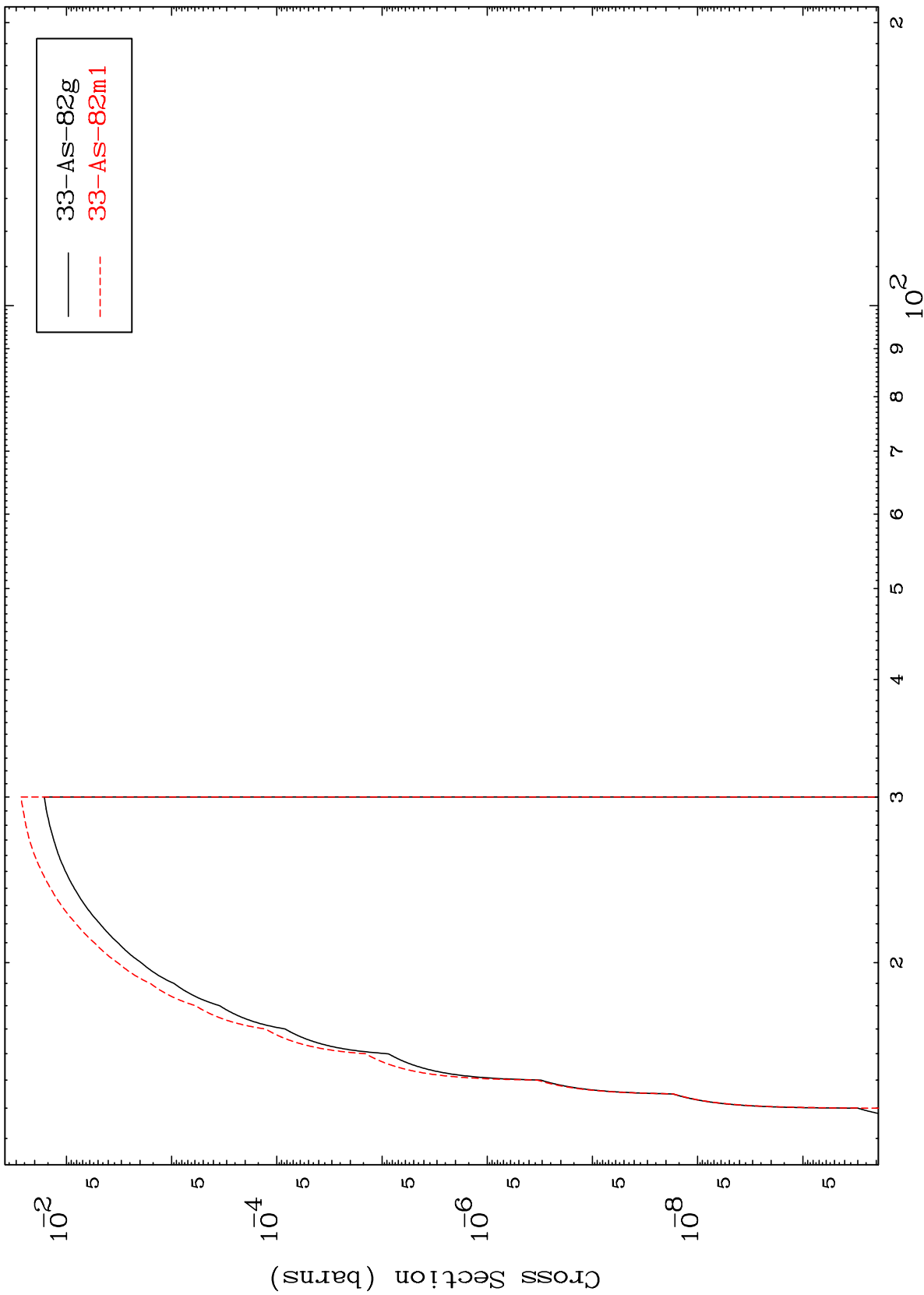


137

Incident Energy (MeV)

<sup>34</sup>Se-83

Radionuclide Production Cross Section

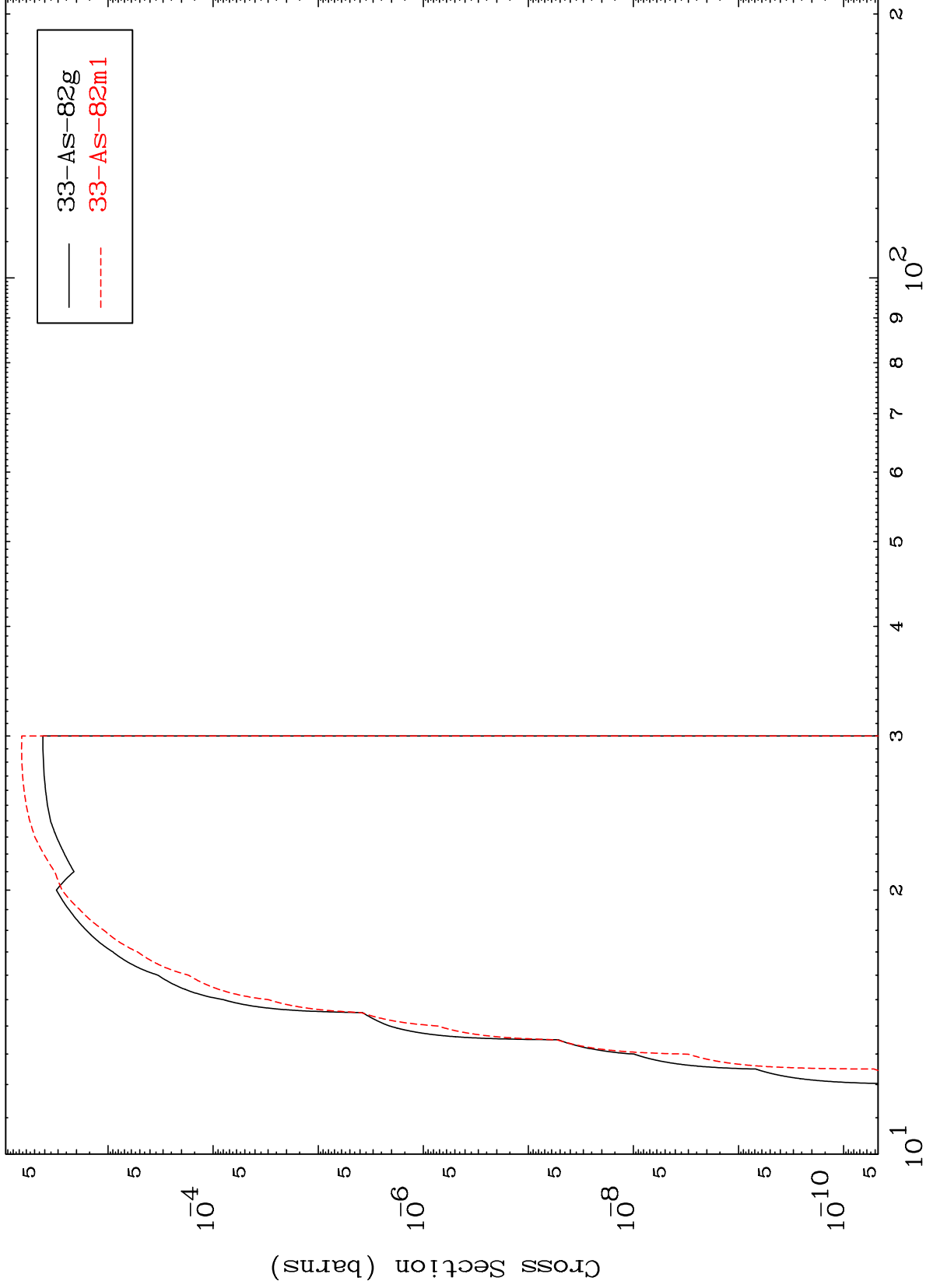


MAT 3452

(n,d)

34-Se-83

Radionuclide Production Cross Section



139

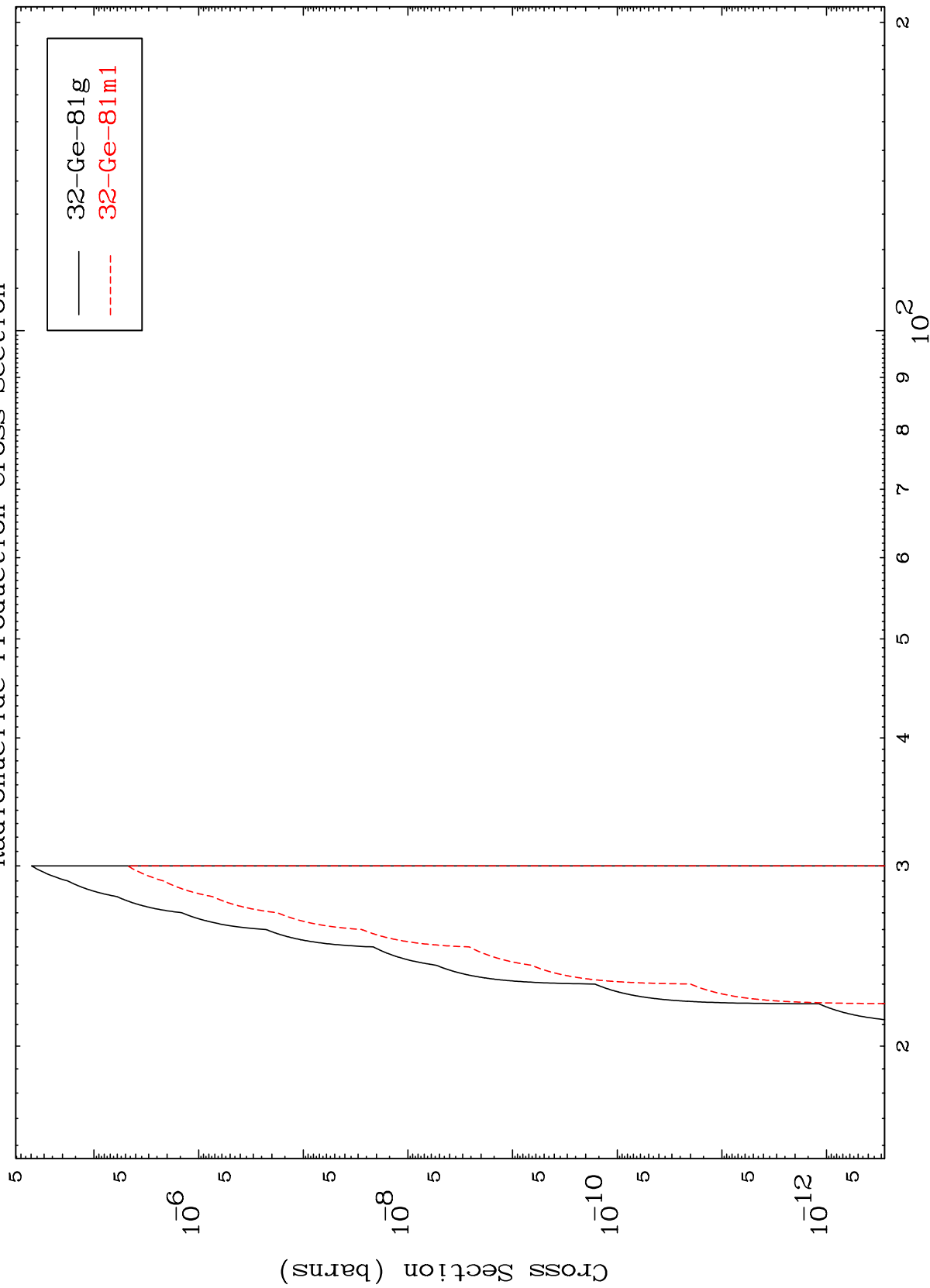
Incident Energy (MeV)

34-Se-83

MAT 3452

34-<sup>Se-83</sup>

(n,He-3)  
Radionuclide Production Cross Section



34-<sup>Se-83</sup>

Incident Energy (MeV)

140