

Program EVALPLOT  
(Version 2021-1)

by

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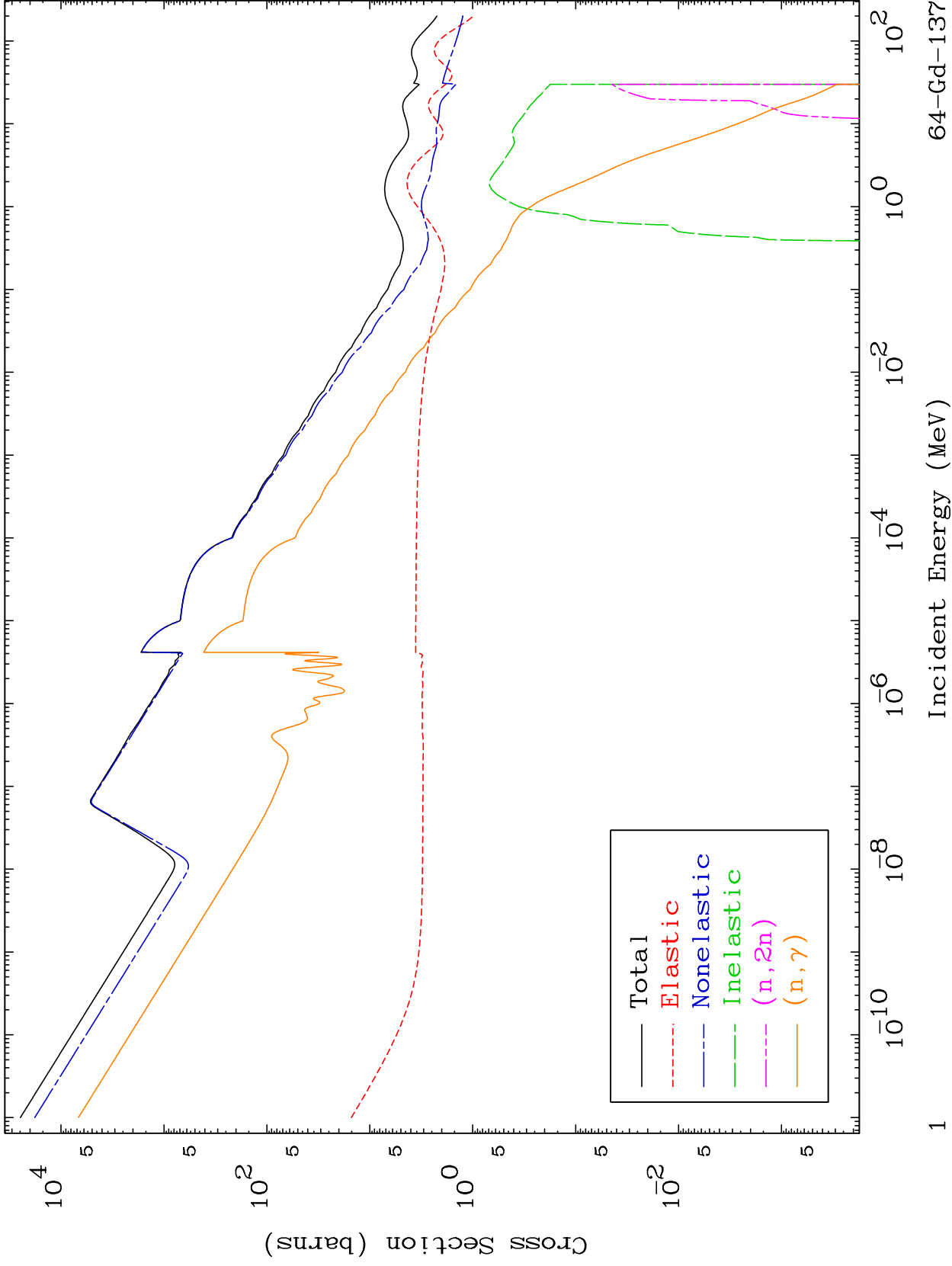
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Press Mouse Button to Start

MAT 6380

Neutron Major  
293 Kelvin Cross Sections

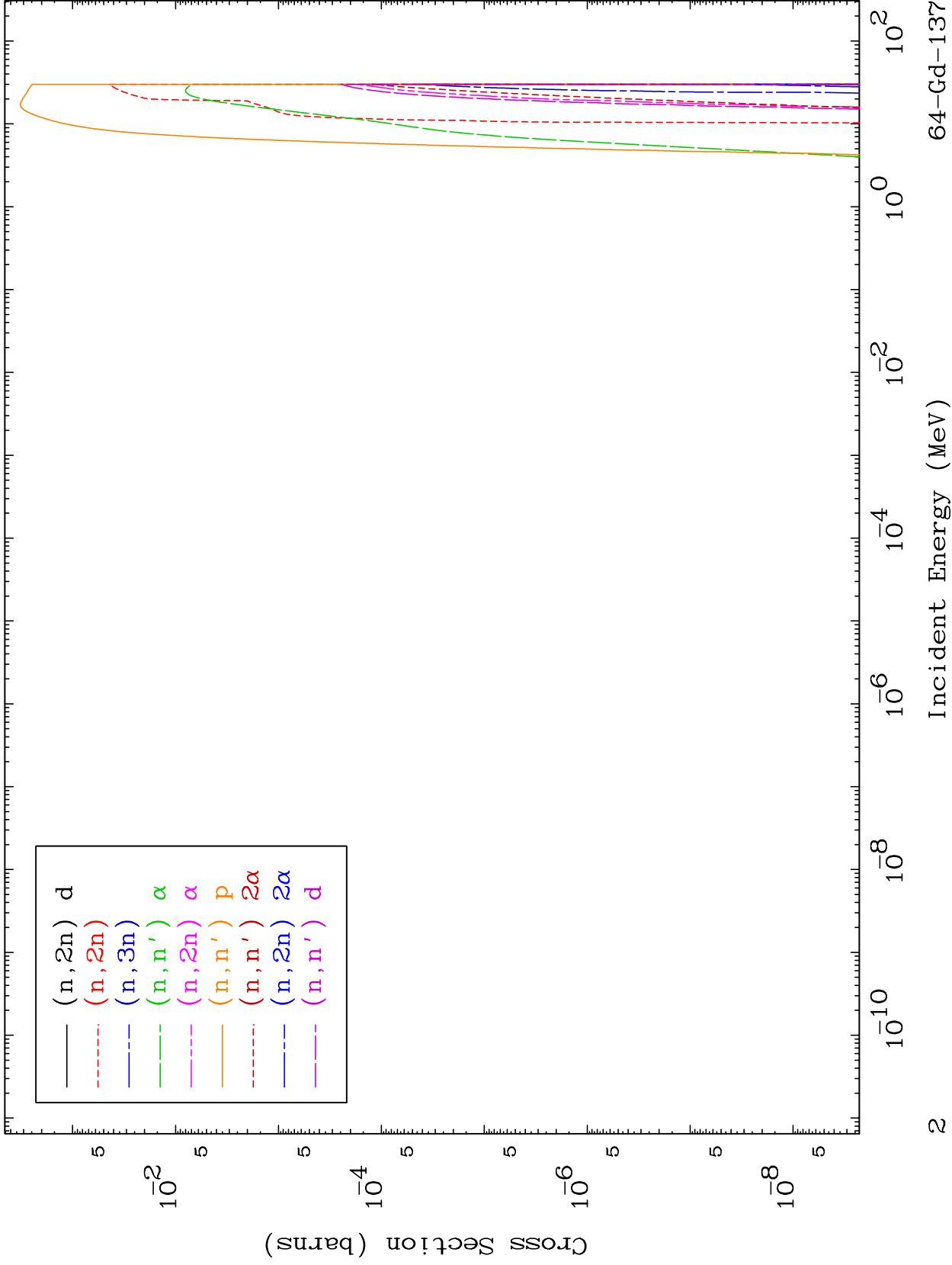
64-Gd-137



MAT 6380

Neutron Absorption  
293 Kelvin Cross Sections

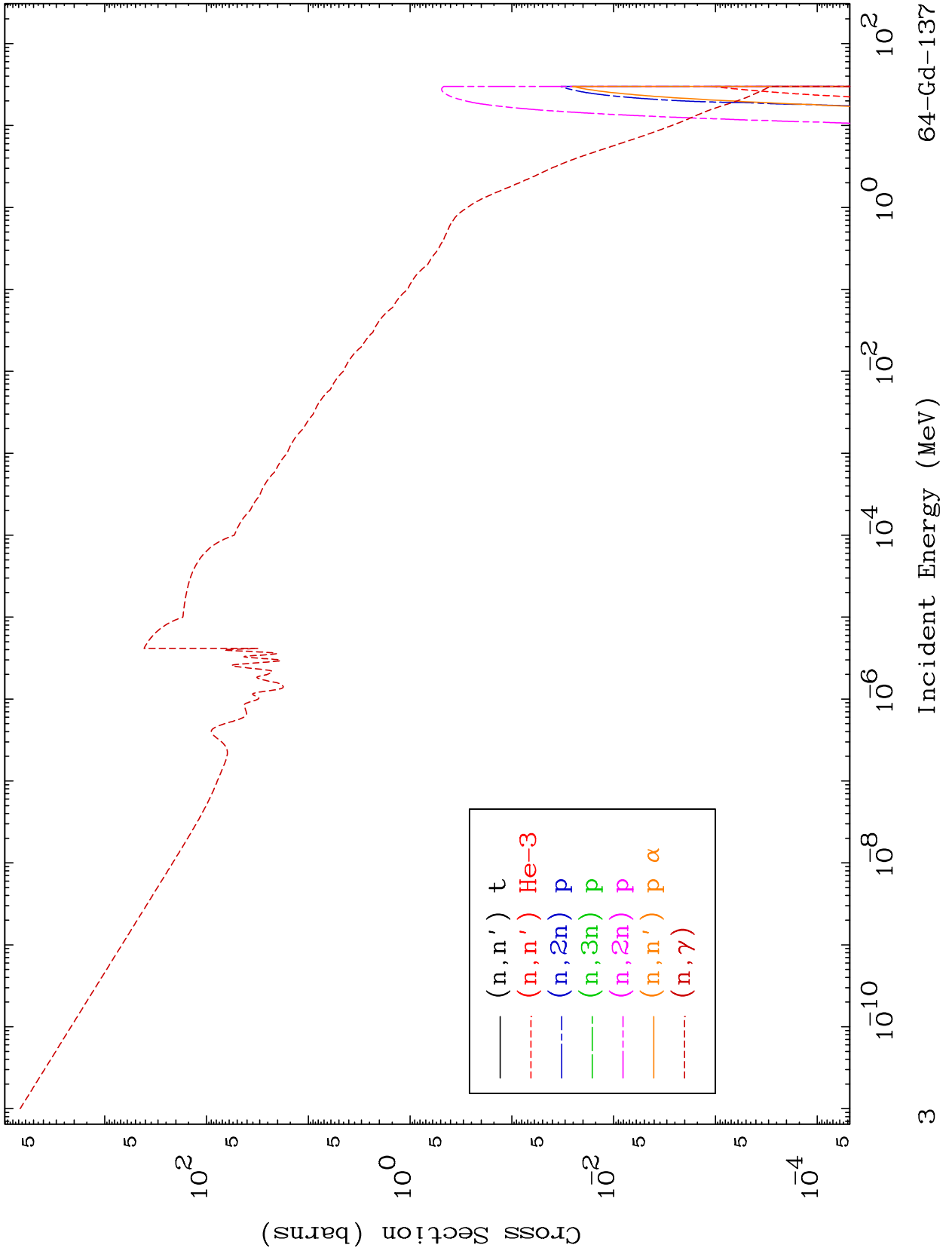
64-Gd-137



MAT 6380

Neutron Absorption  
293 Kelvin Cross Sections

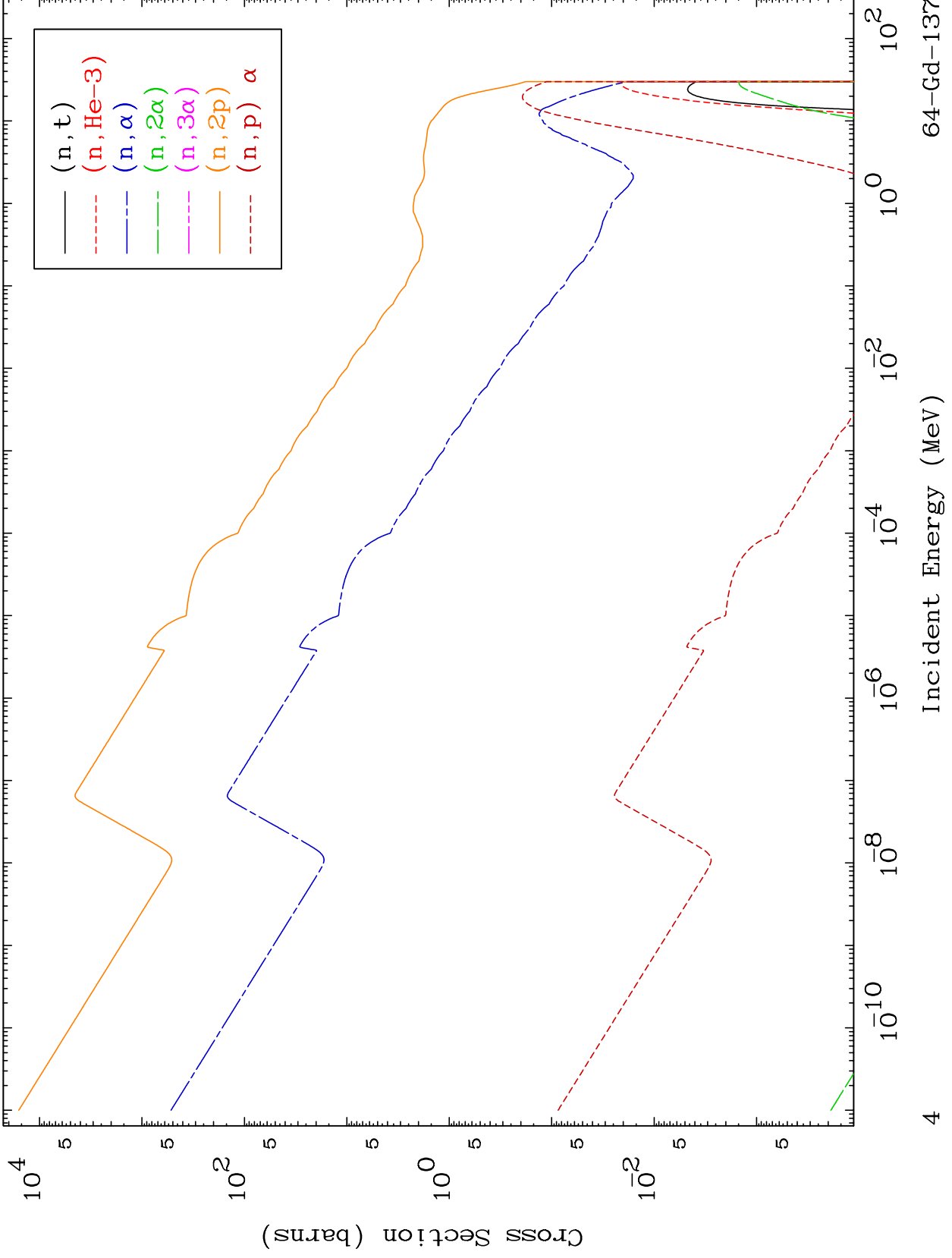
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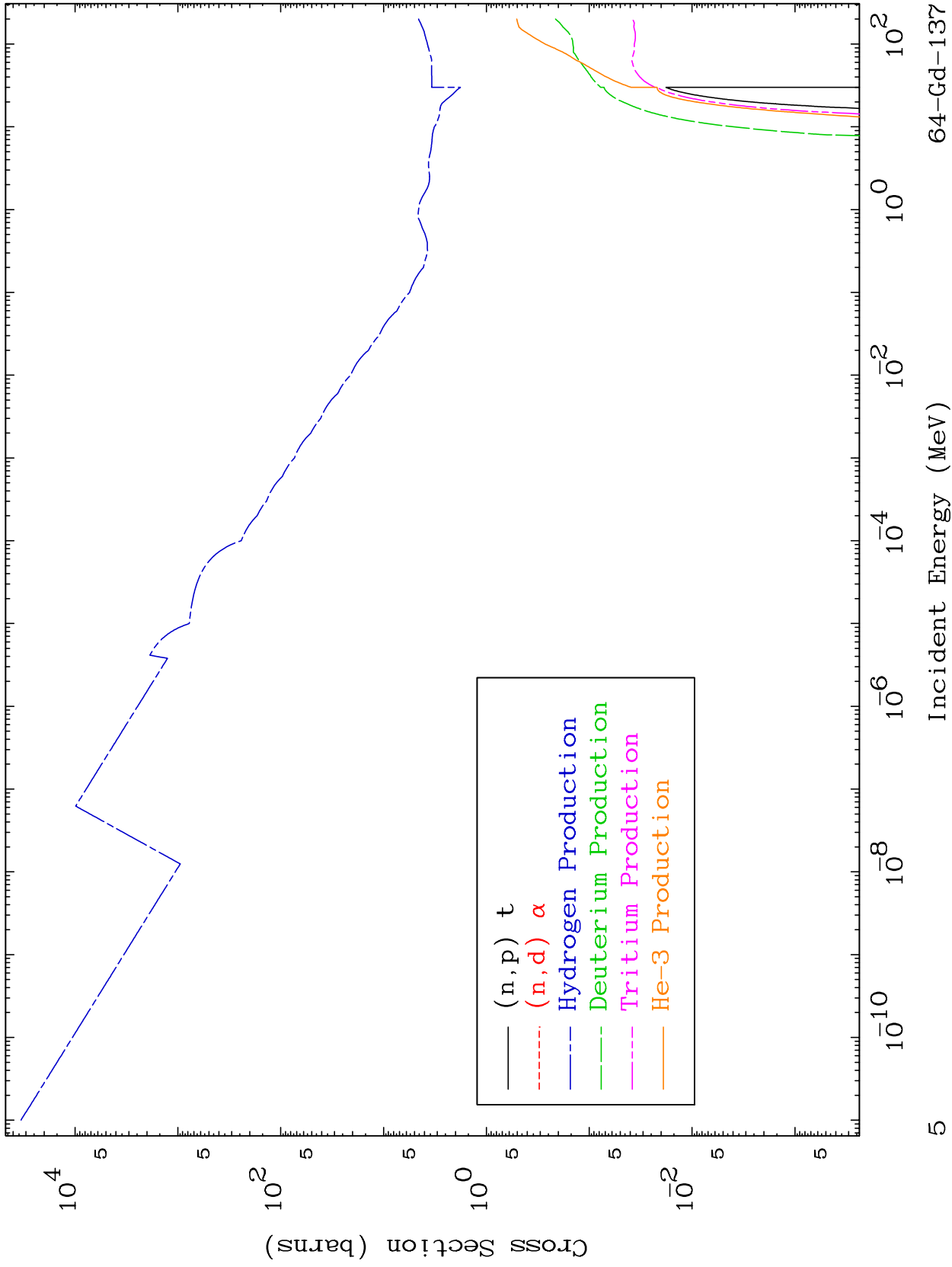


MAT 6380

Neutron Absorption  
293 Kelvin Cross Sections

64-Gd-137

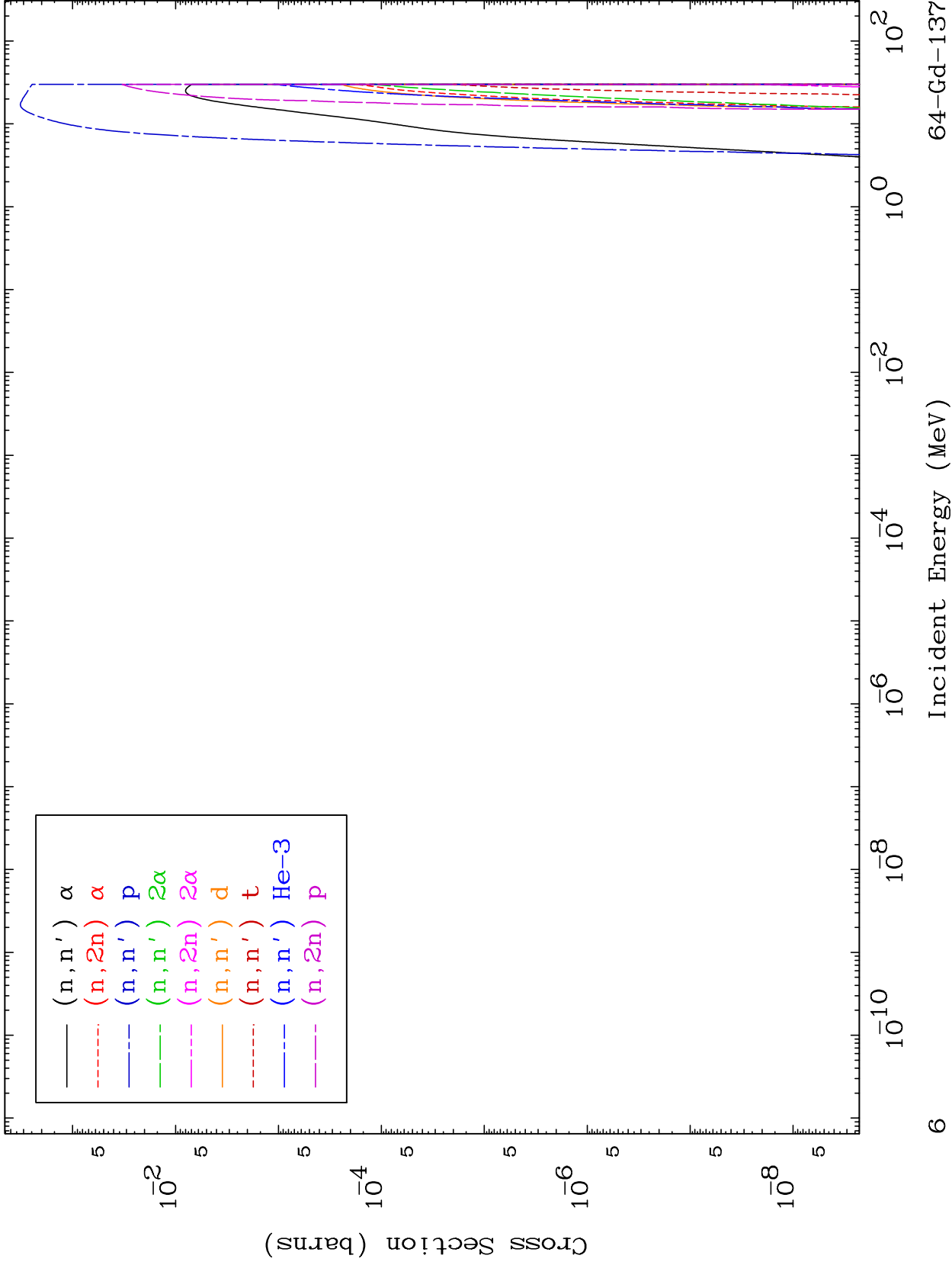




MAT 6380

Charged Particle  
293 Kelvin Cross Sections

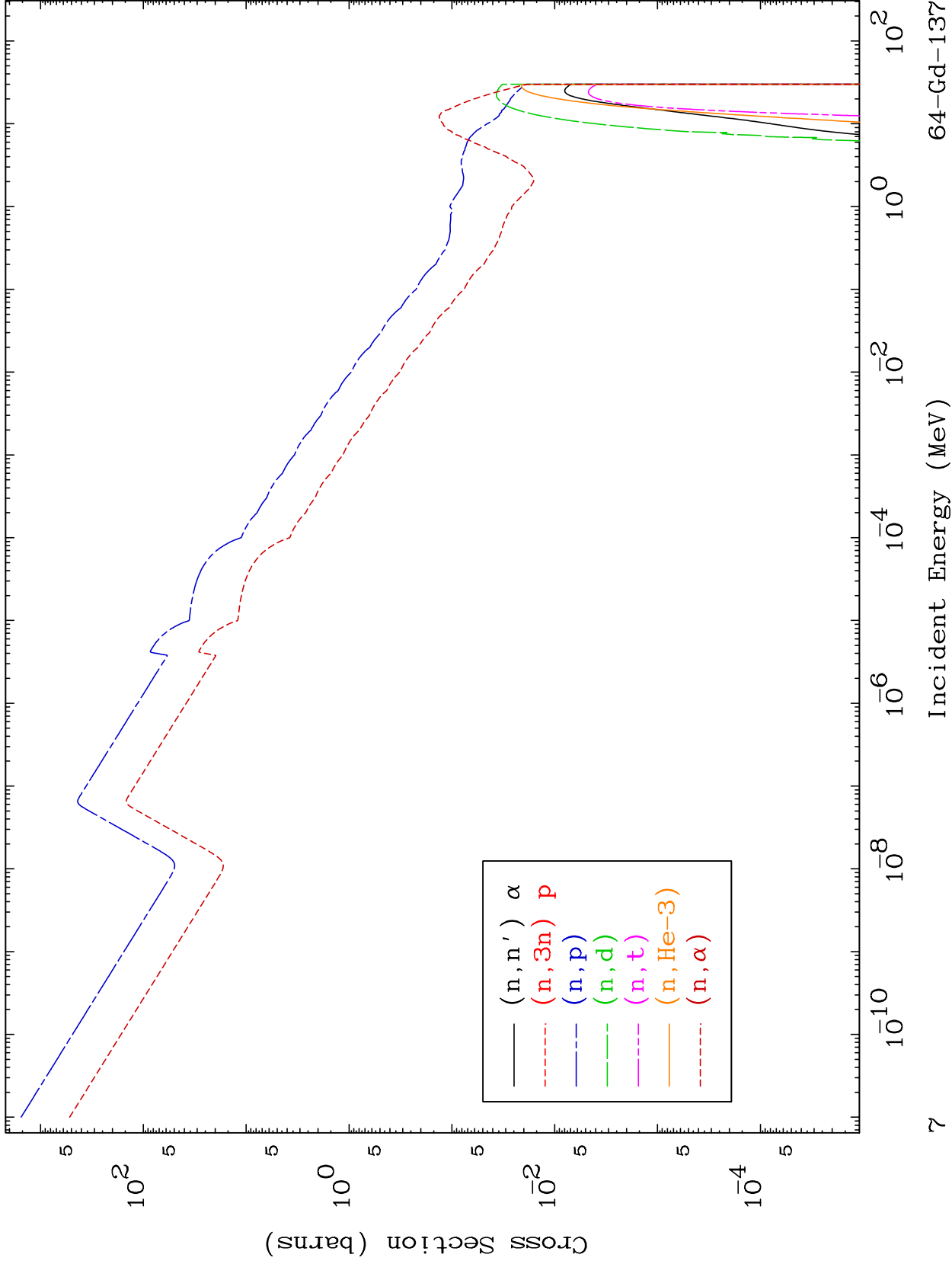
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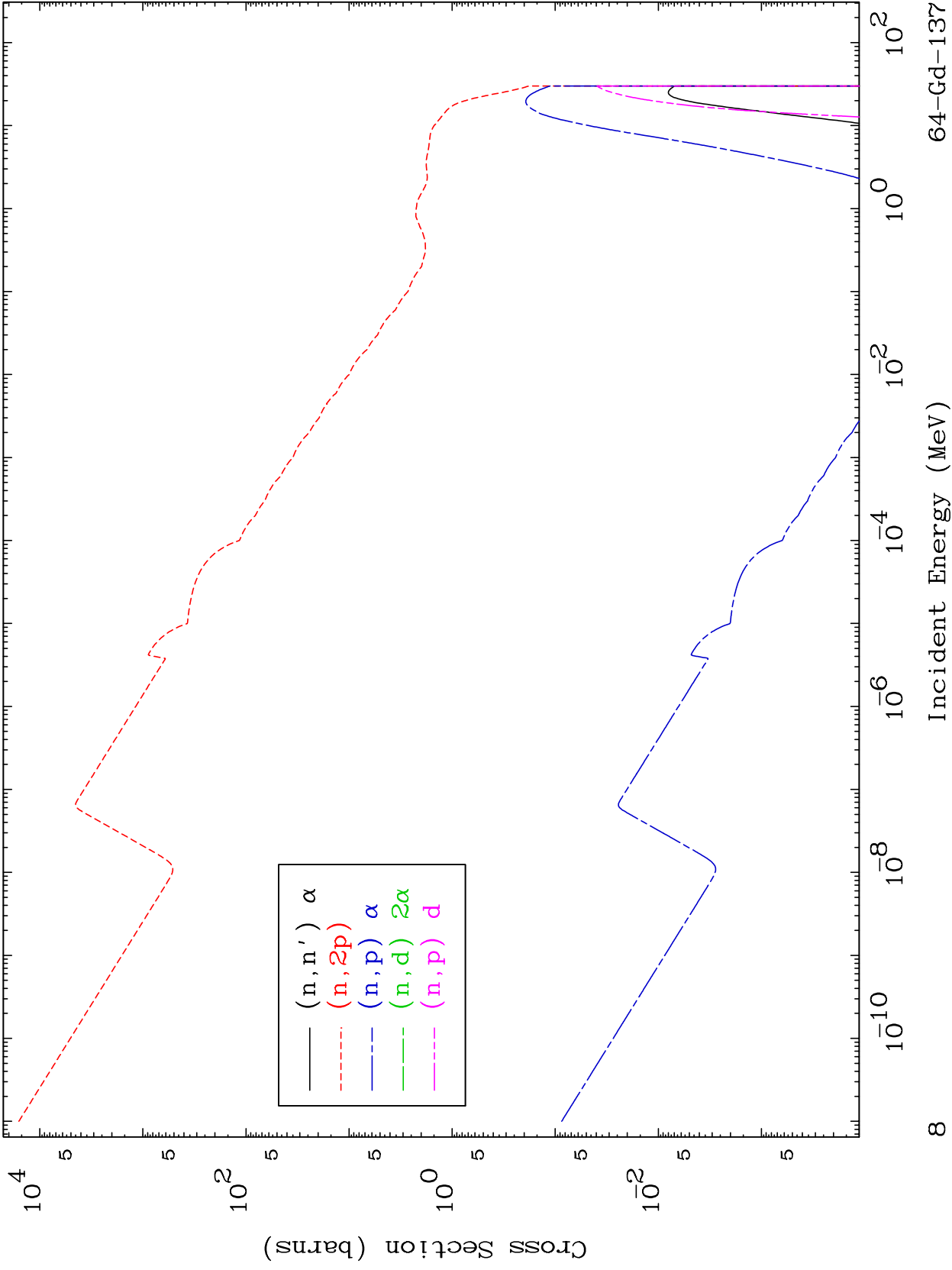
MAT 6380

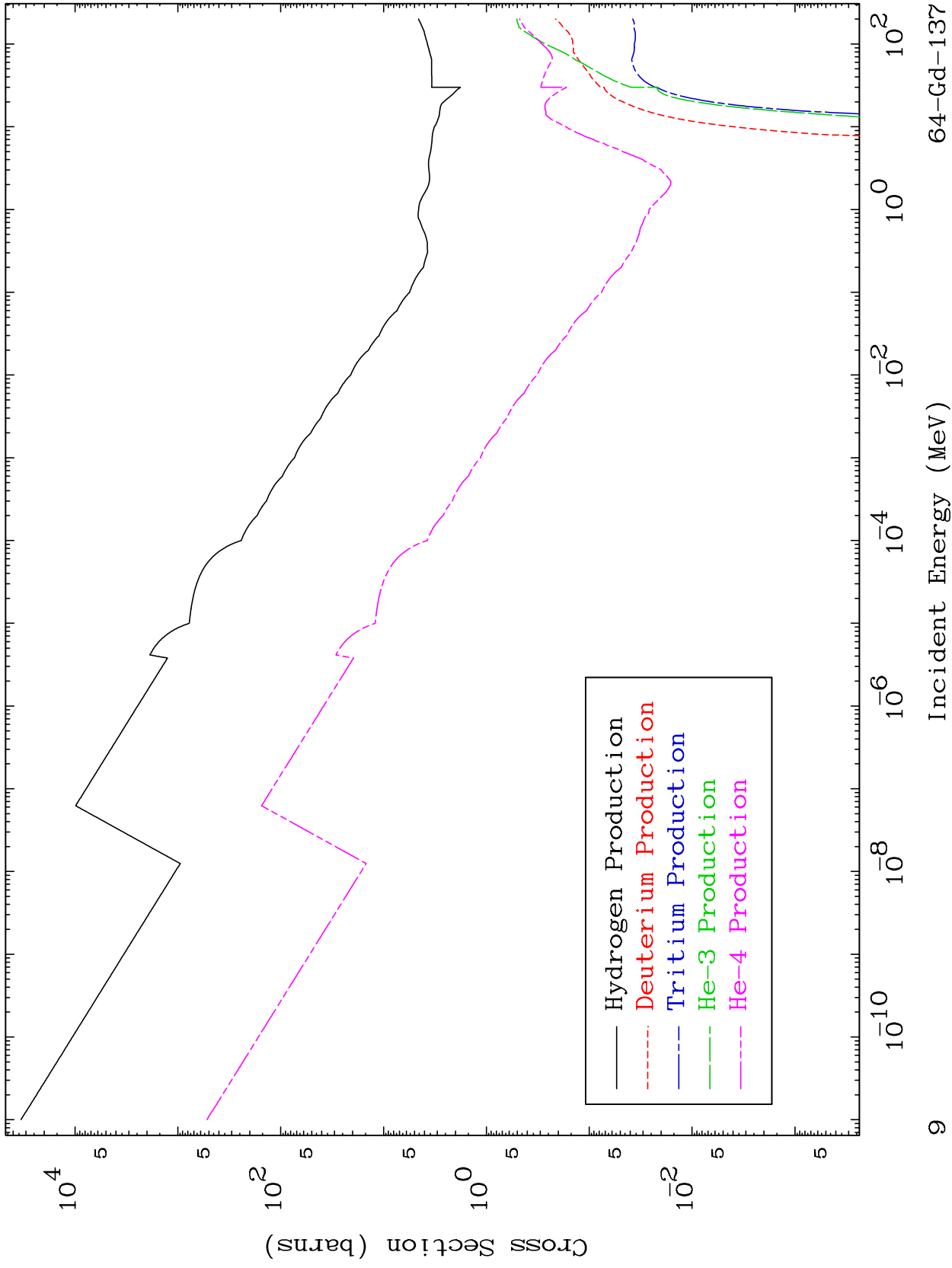
Charged Particle  
293 Kelvin Cross Sections

64-Gd-137







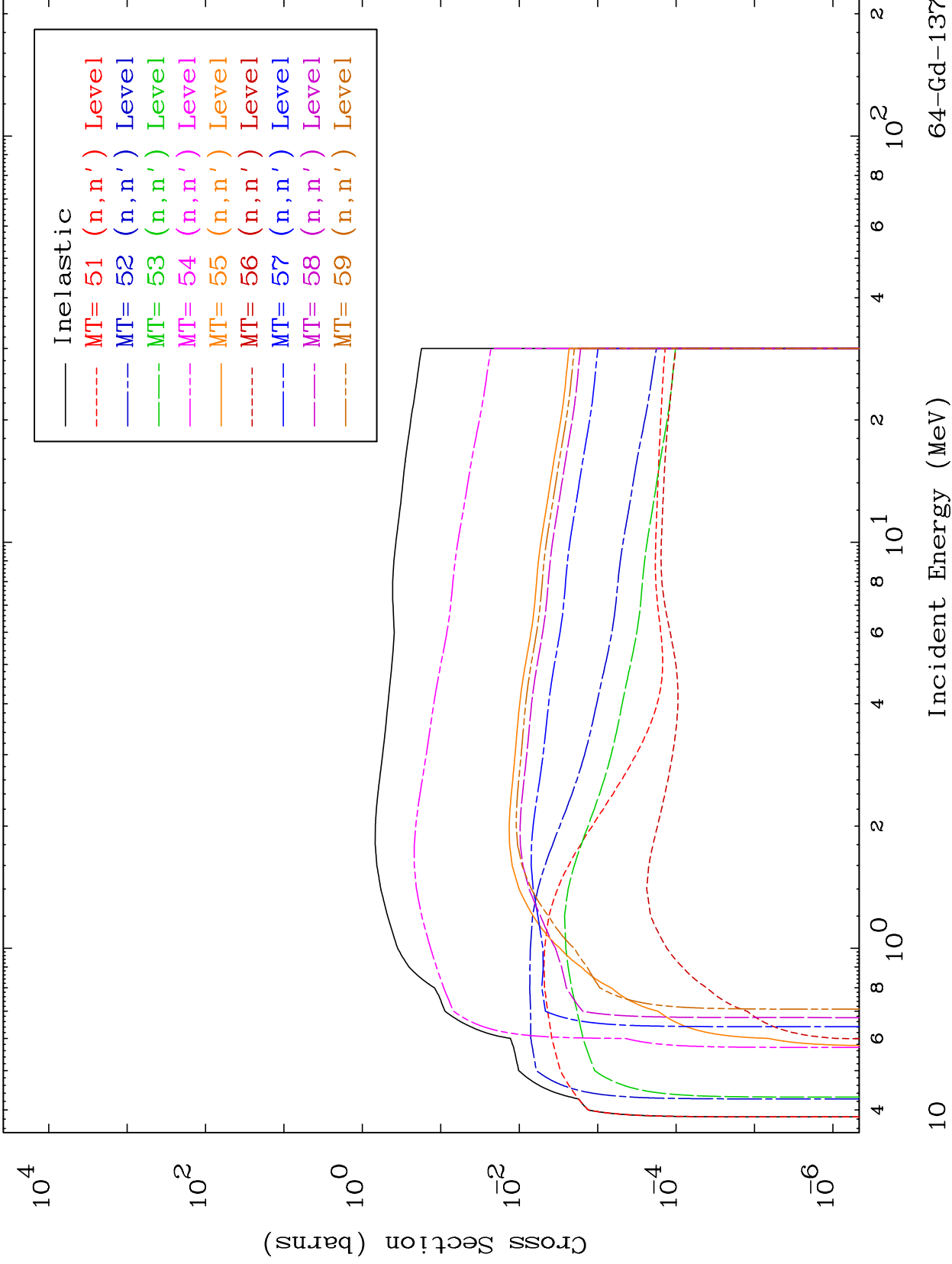


MAT 6380

(n,n') Levels

64-Gd-137

293 Kelvin Cross Sections

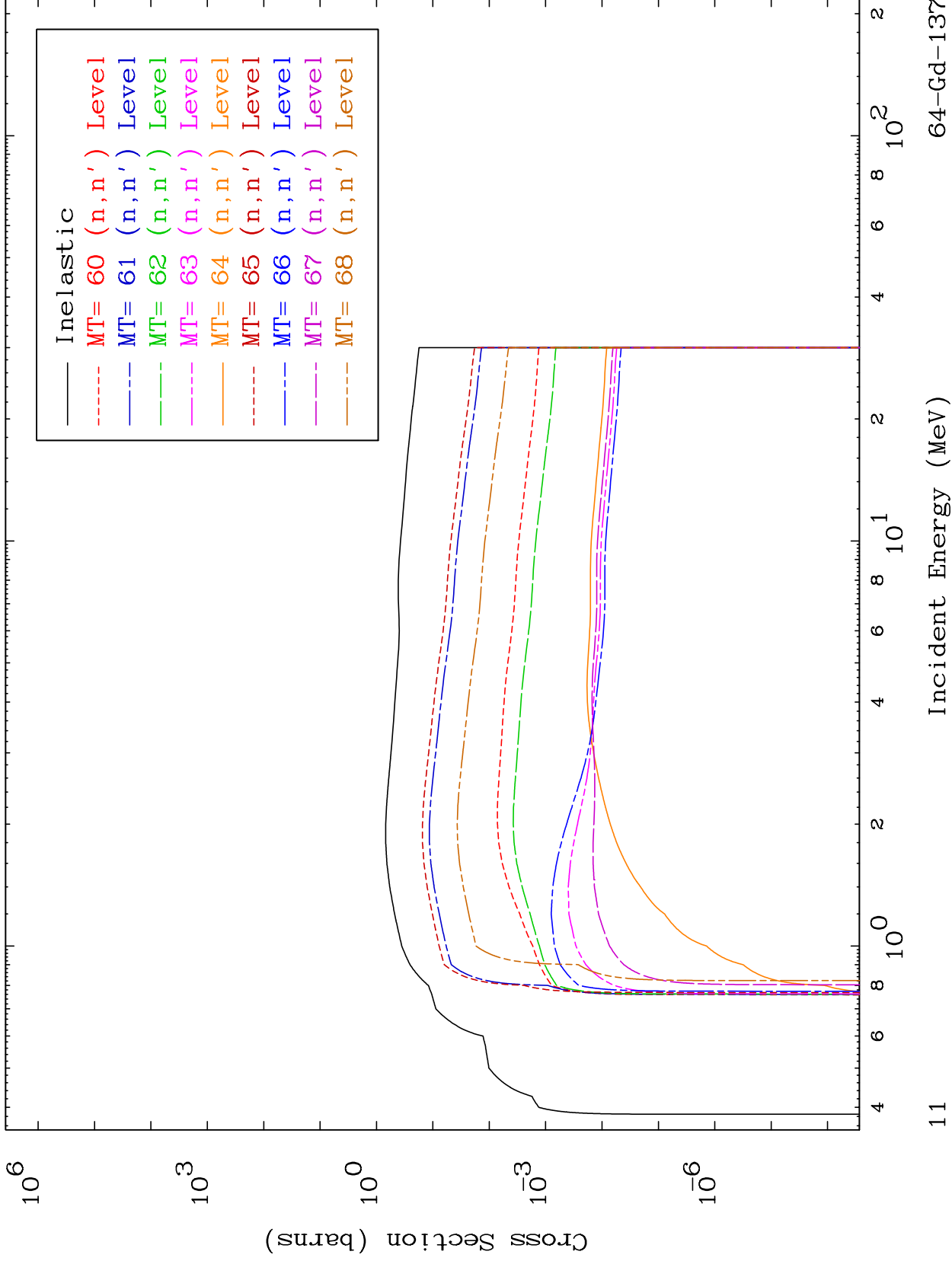


MAT 6380

(n,n') Levels

64-Gd-137

293 Kelvin Cross Sections

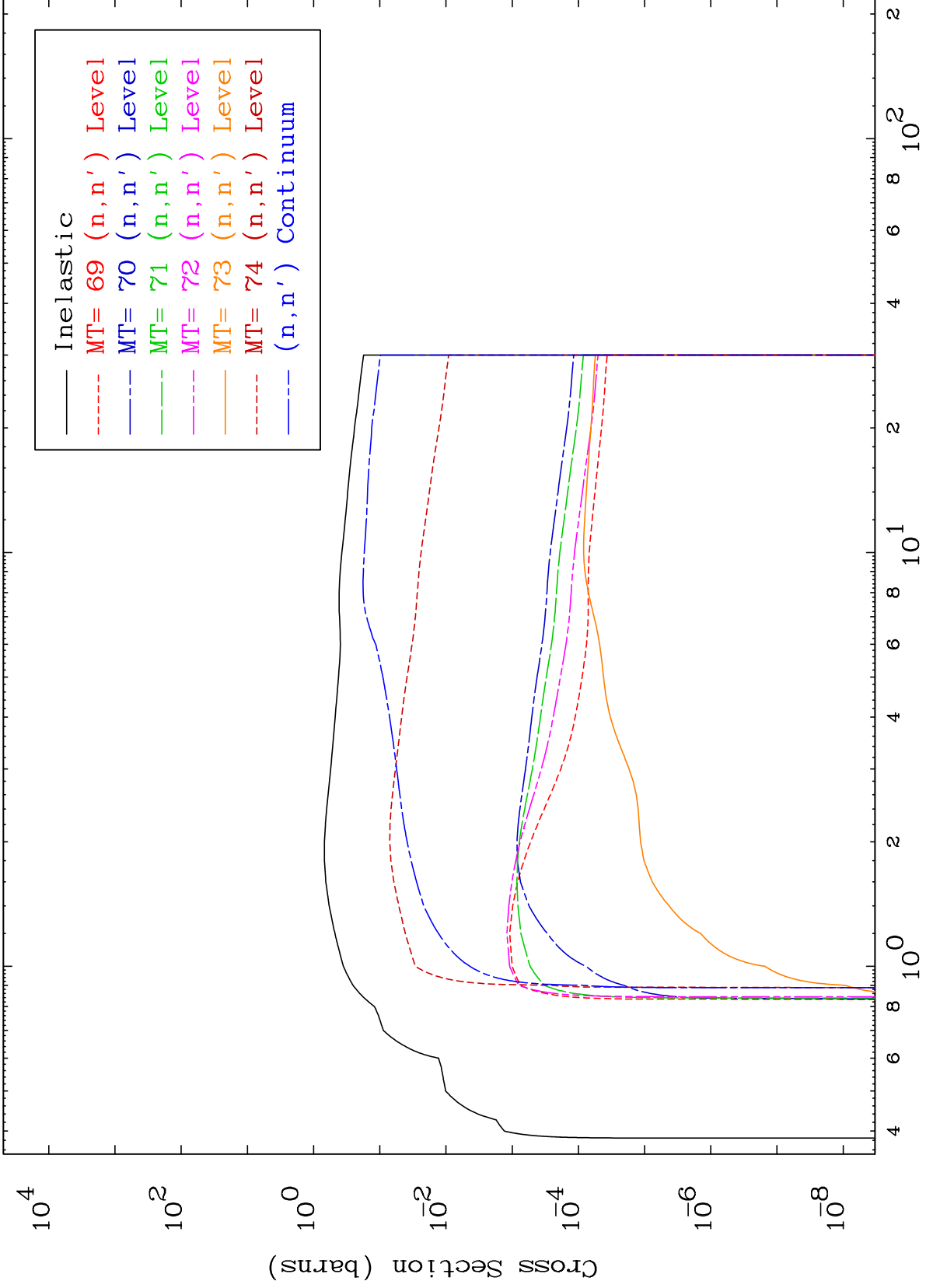


MAT 6380

(n,n') Levels

64-Gd-137

293 Kelvin Cross Sections



12

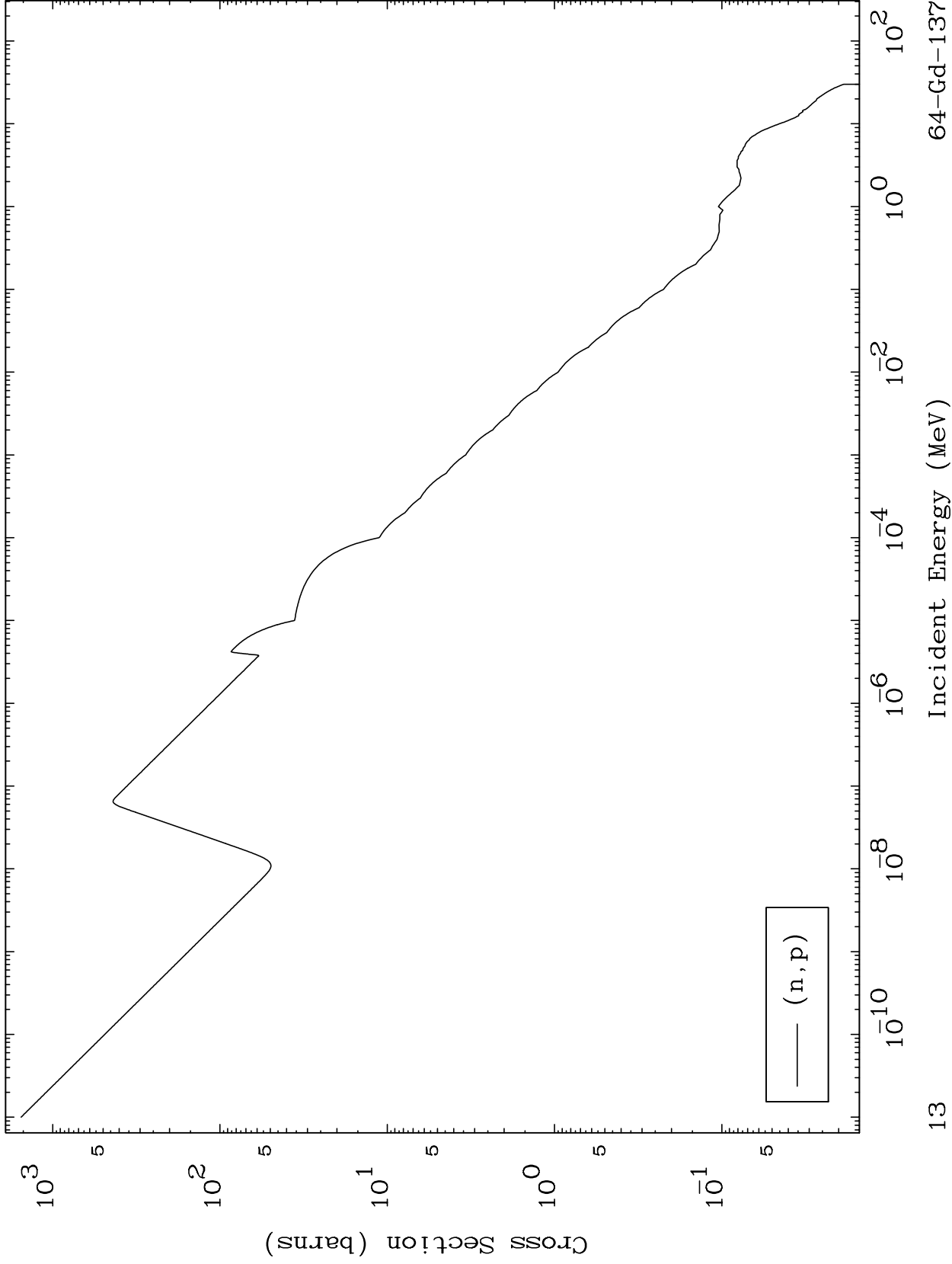
Incident Energy (MeV)

64-Gd-137

MAT 6380

(n,p) Levels  
293 Kelvin Cross Sections

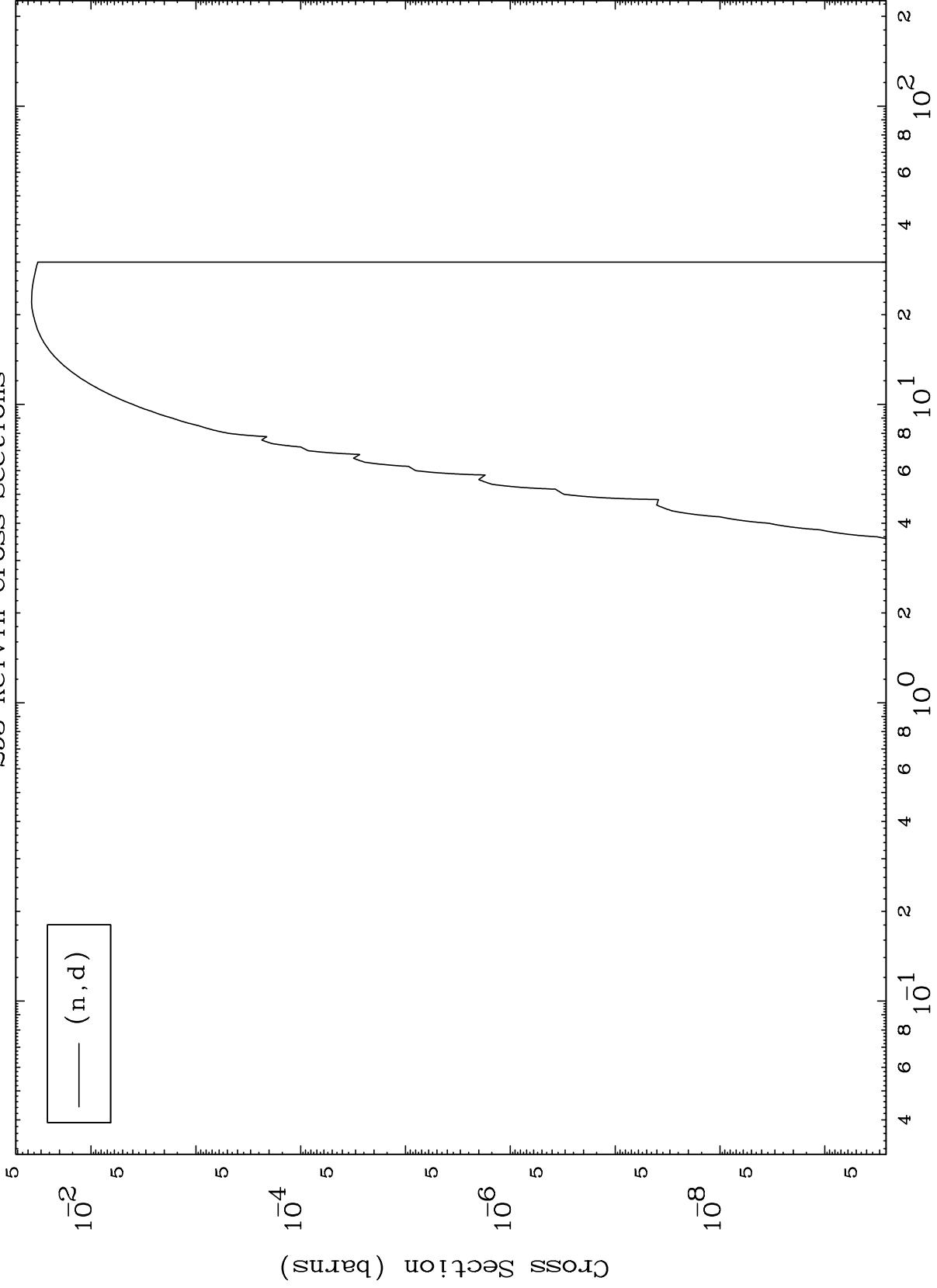
64-Gd-137



MAT 6380

(n,d) Levels  
293 Kelvin Cross Sections

64-Gd-137



14

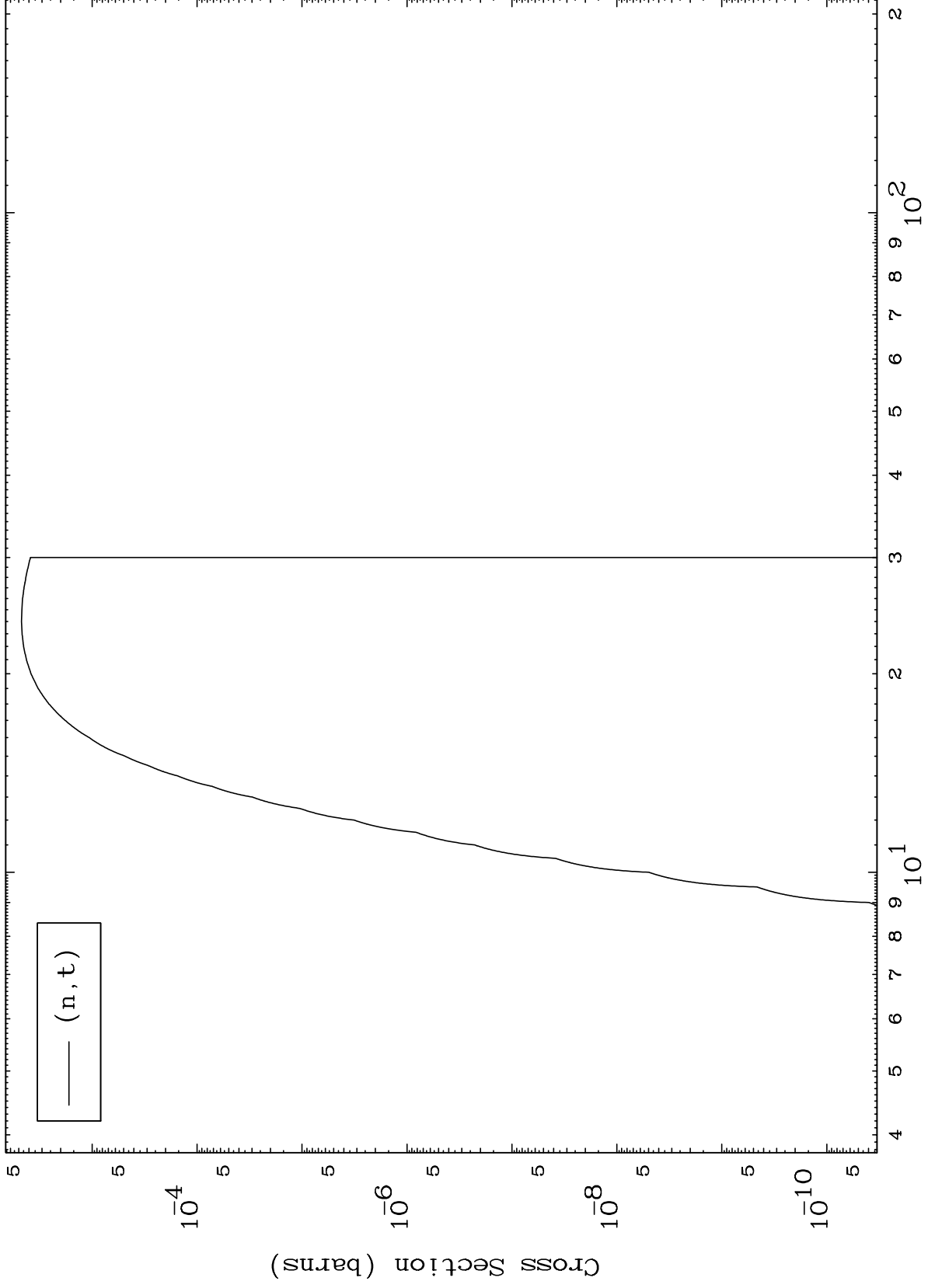
Incident Energy (MeV)

64-Gd-137

MAT 6380

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-137



15

Incident Energy (MeV)

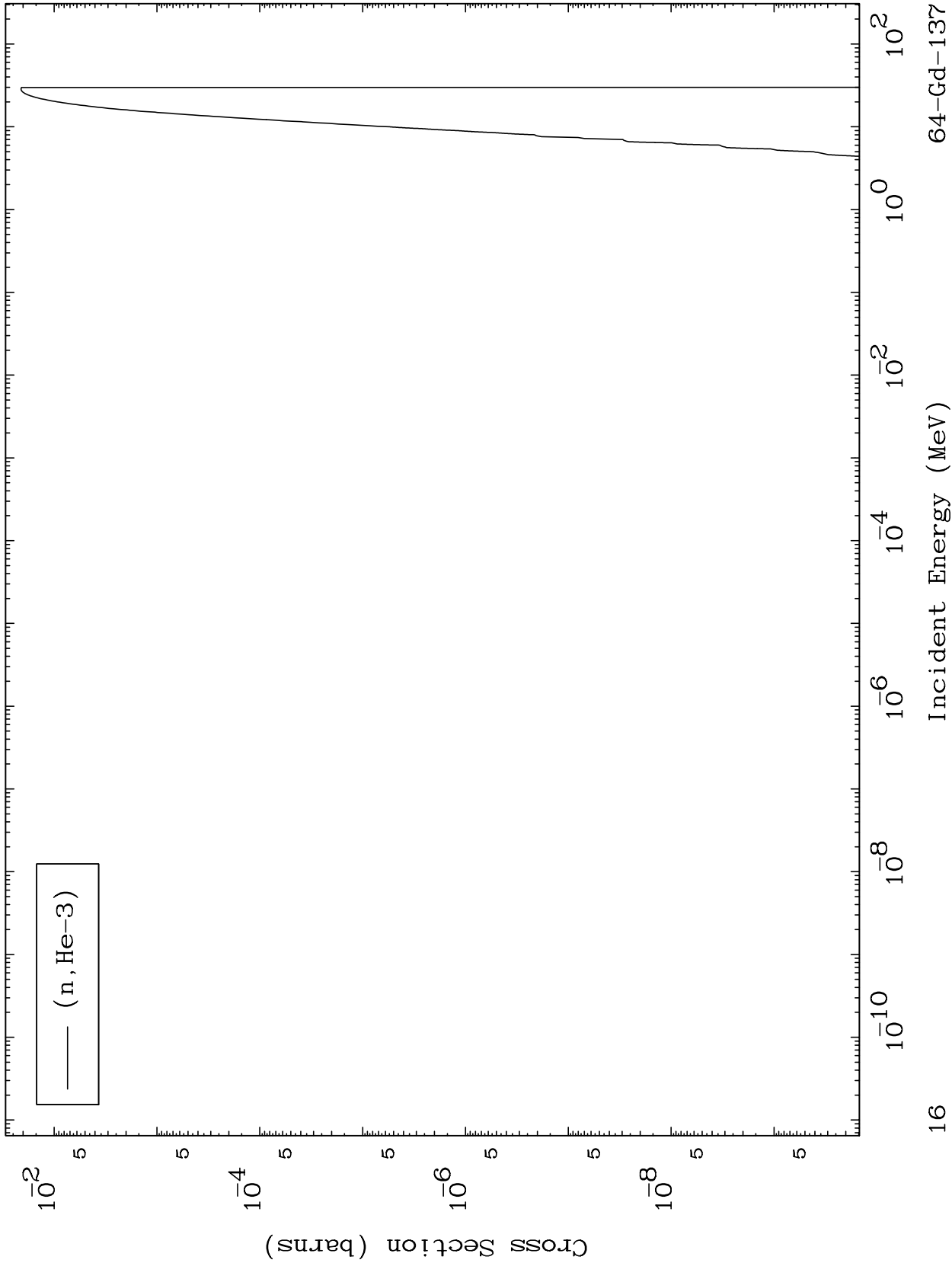
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MAT 6380

(n,He3) Levels  
293 Kelvin Cross Sections

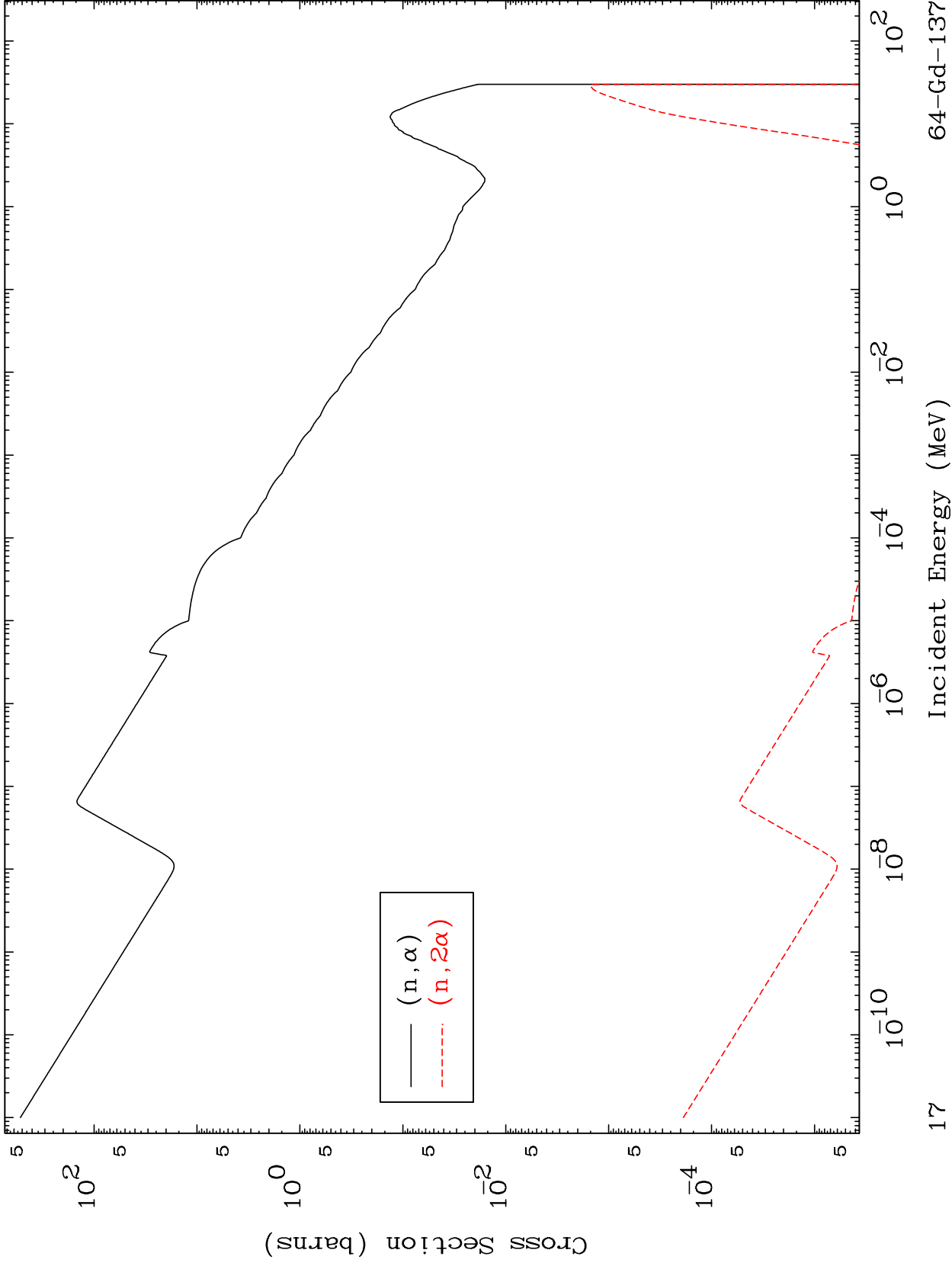
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MAT 6380

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

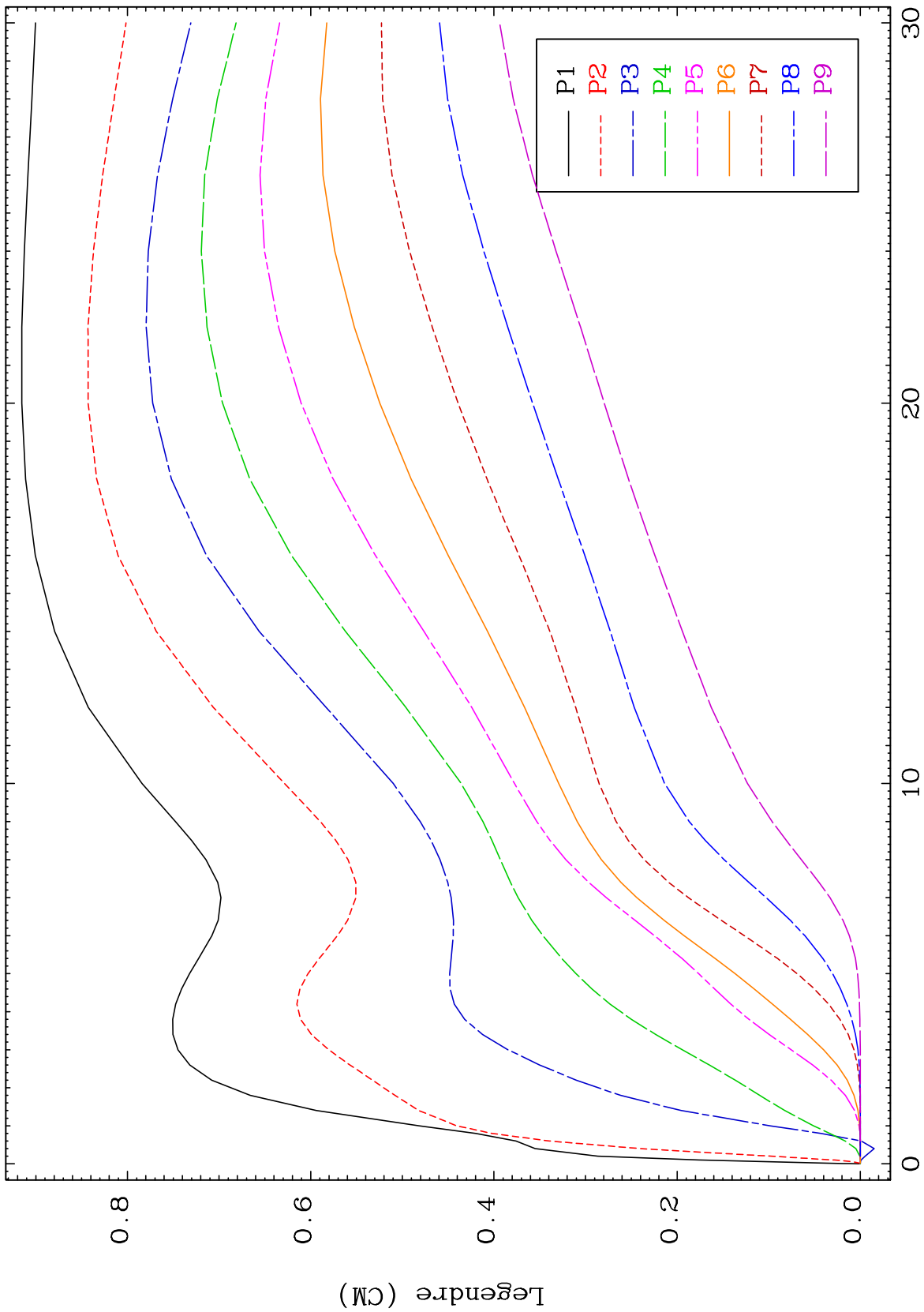
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MAT 6380

Elastic Legendre Coefficients

64-Gd-137



18

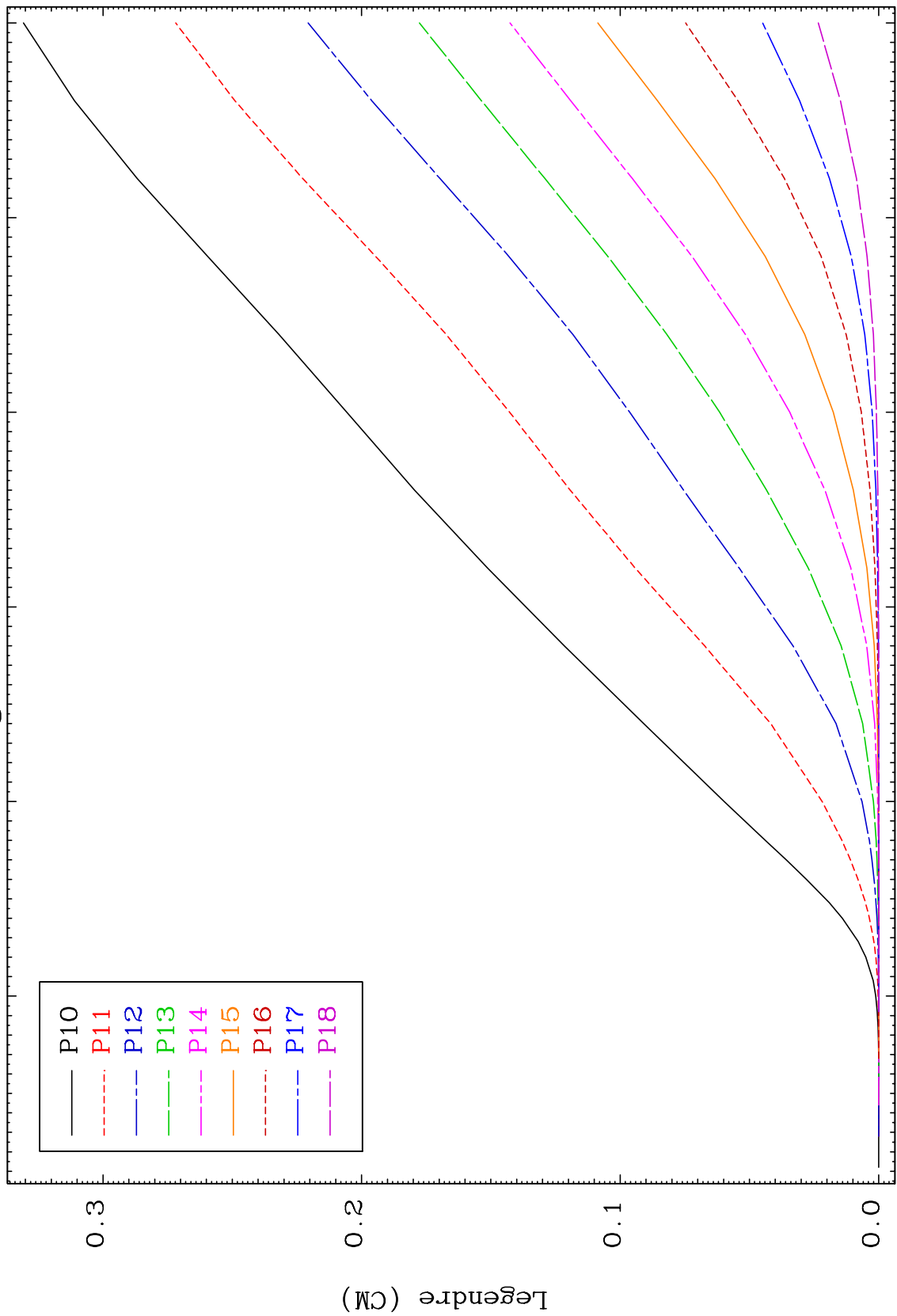
Incident Energy (MeV)

64-Gd-137

MAT 6380

Elastic Legendre Coefficients

64-Gd-137



19

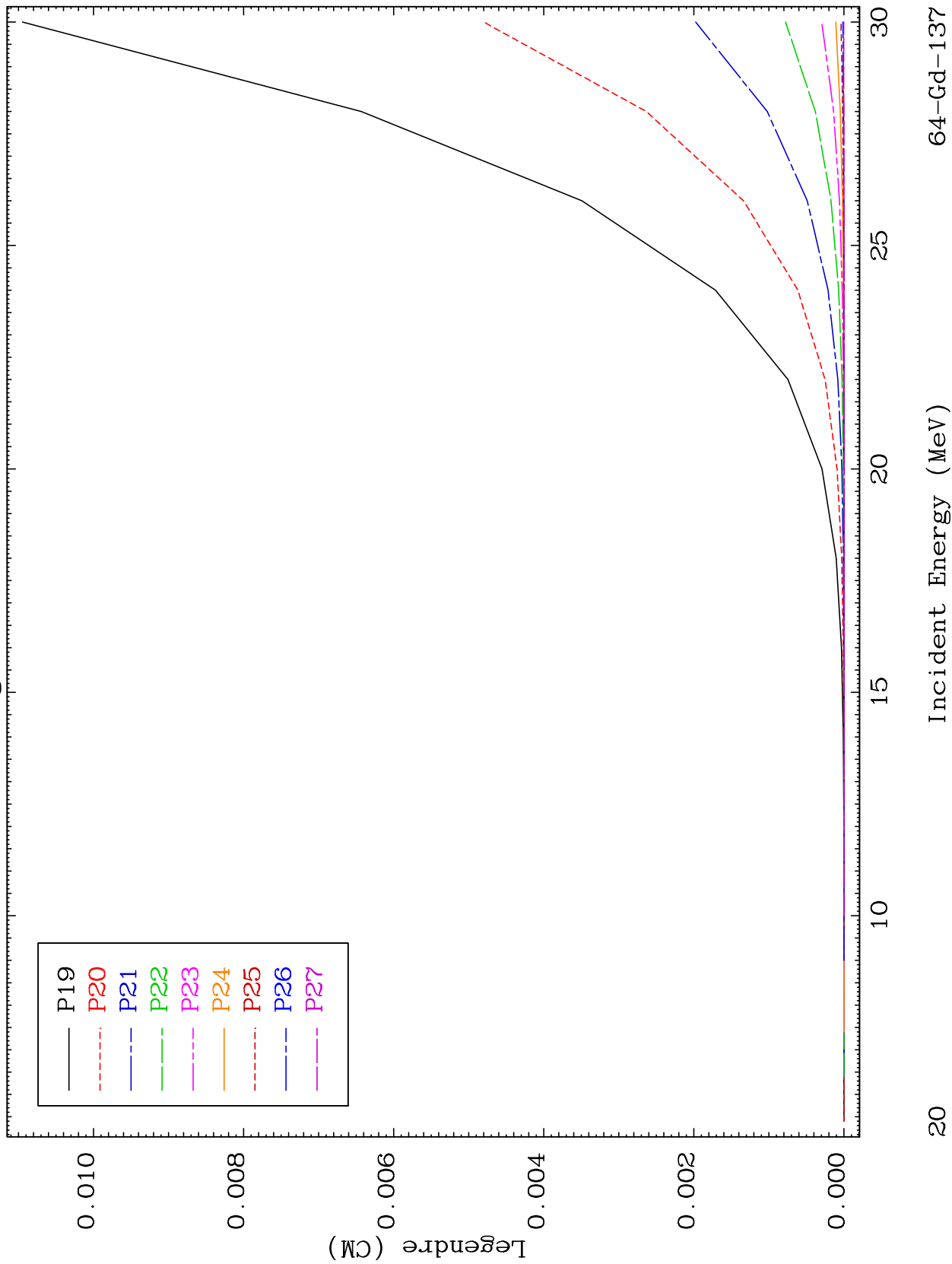
Incident Energy (MeV)

64-Gd-137

MAT 6380

### Elastic Legendre Coefficients

64-Gd-137



20

Incident Energy (MeV)

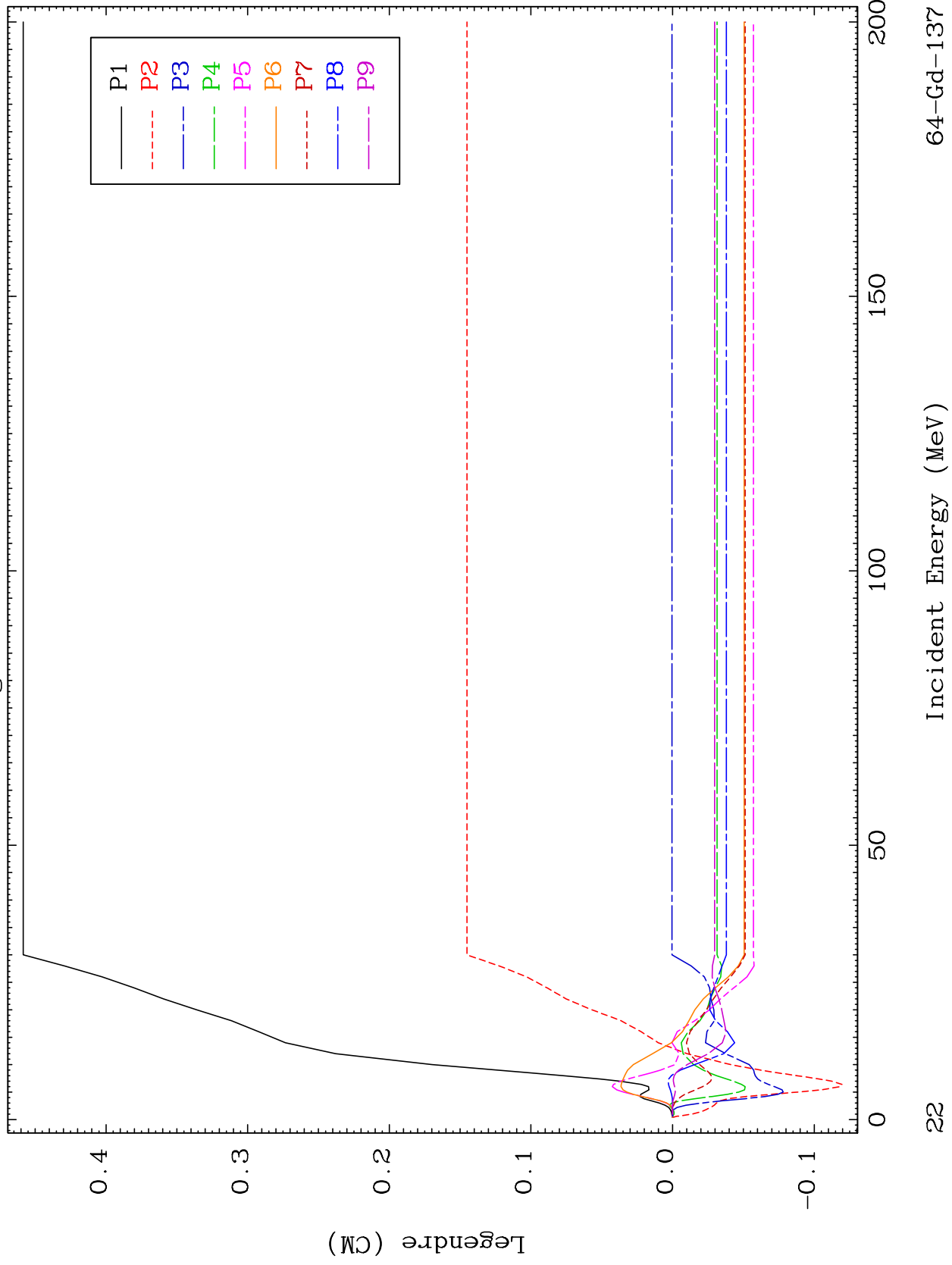
64-Gd-137



MAT 6380

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

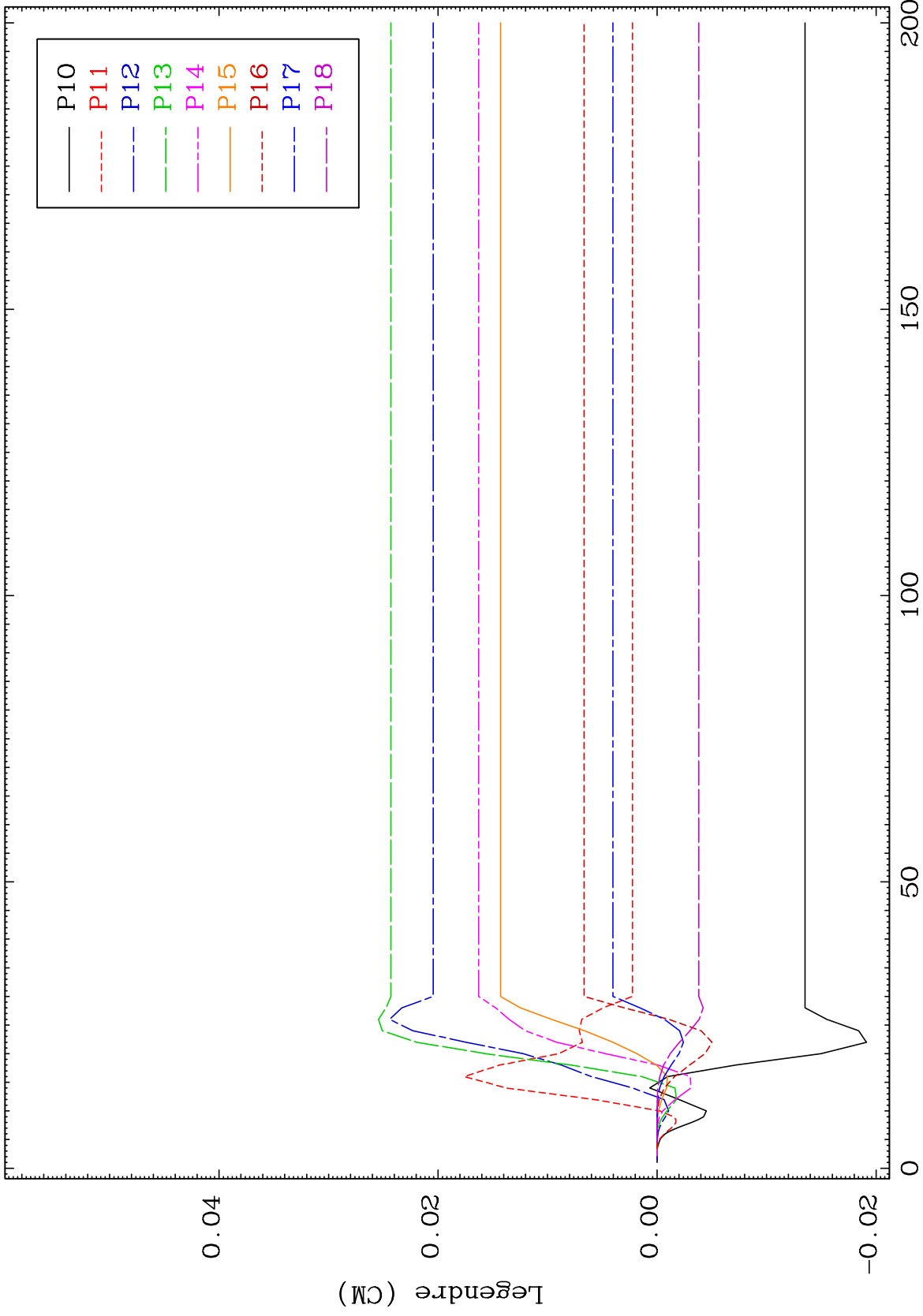
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MAT 6380

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

64-Gd-137



23

Incident Energy (MeV)

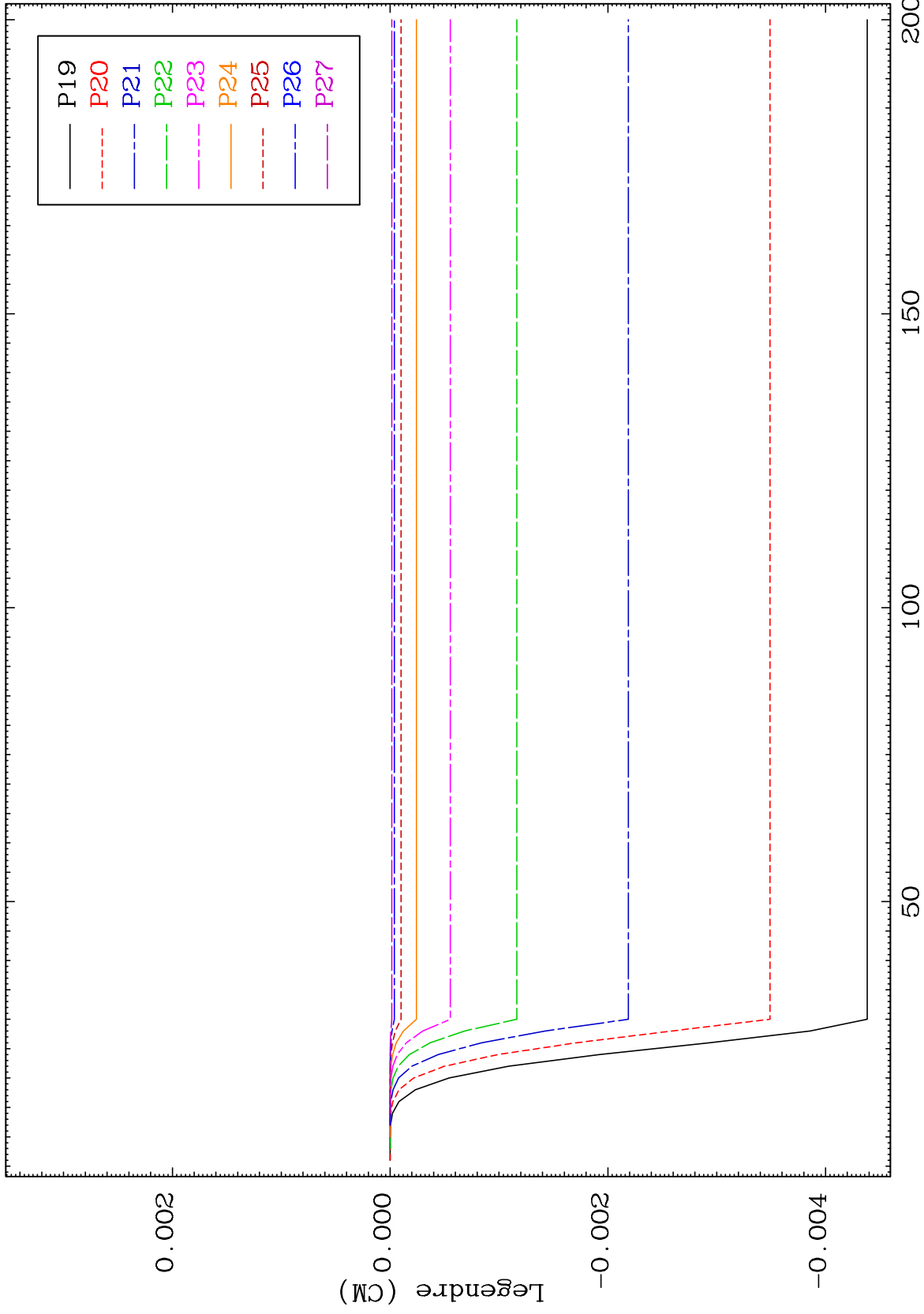
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MAT 6380

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

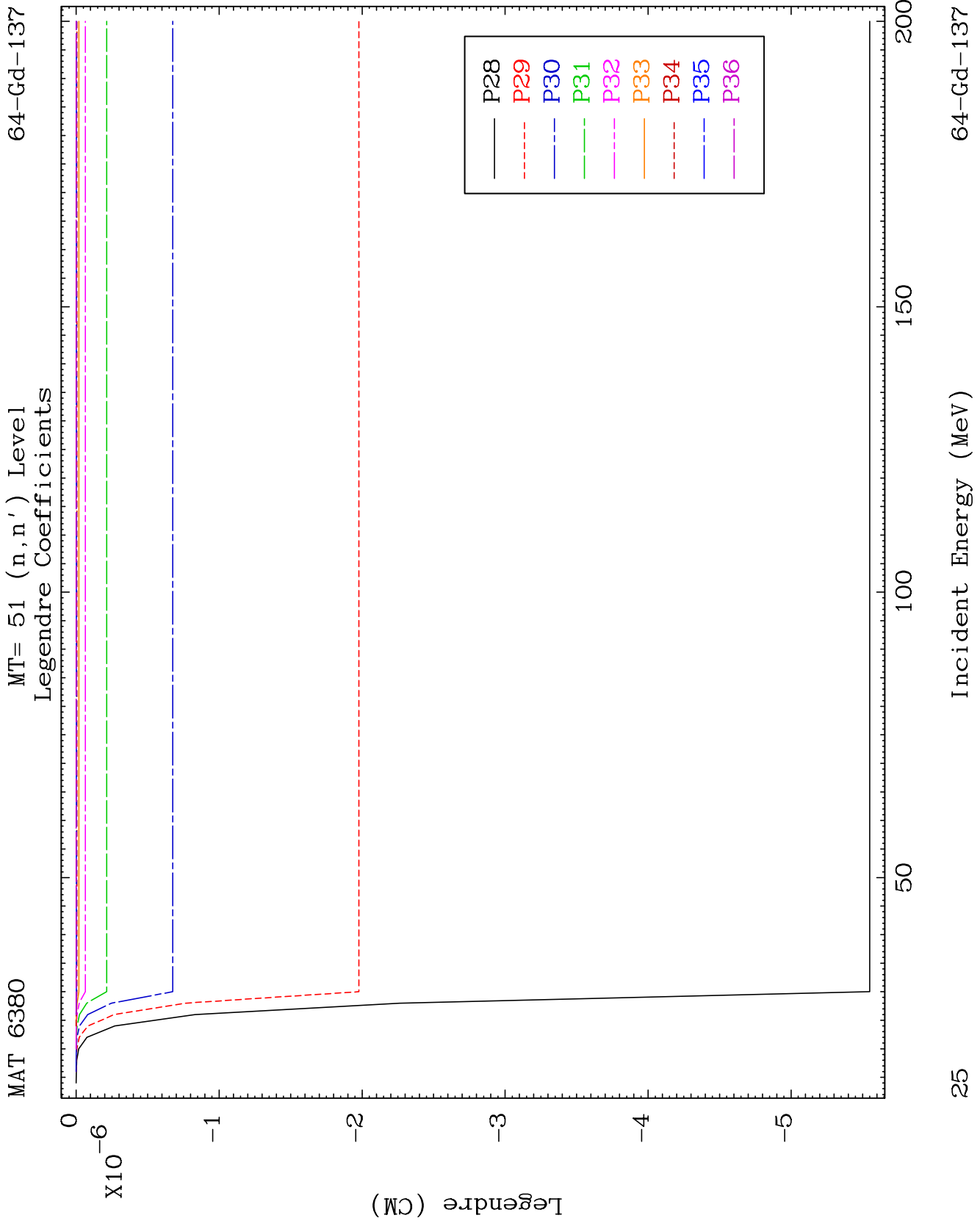
64-Gd-137



24

Incident Energy (MeV)

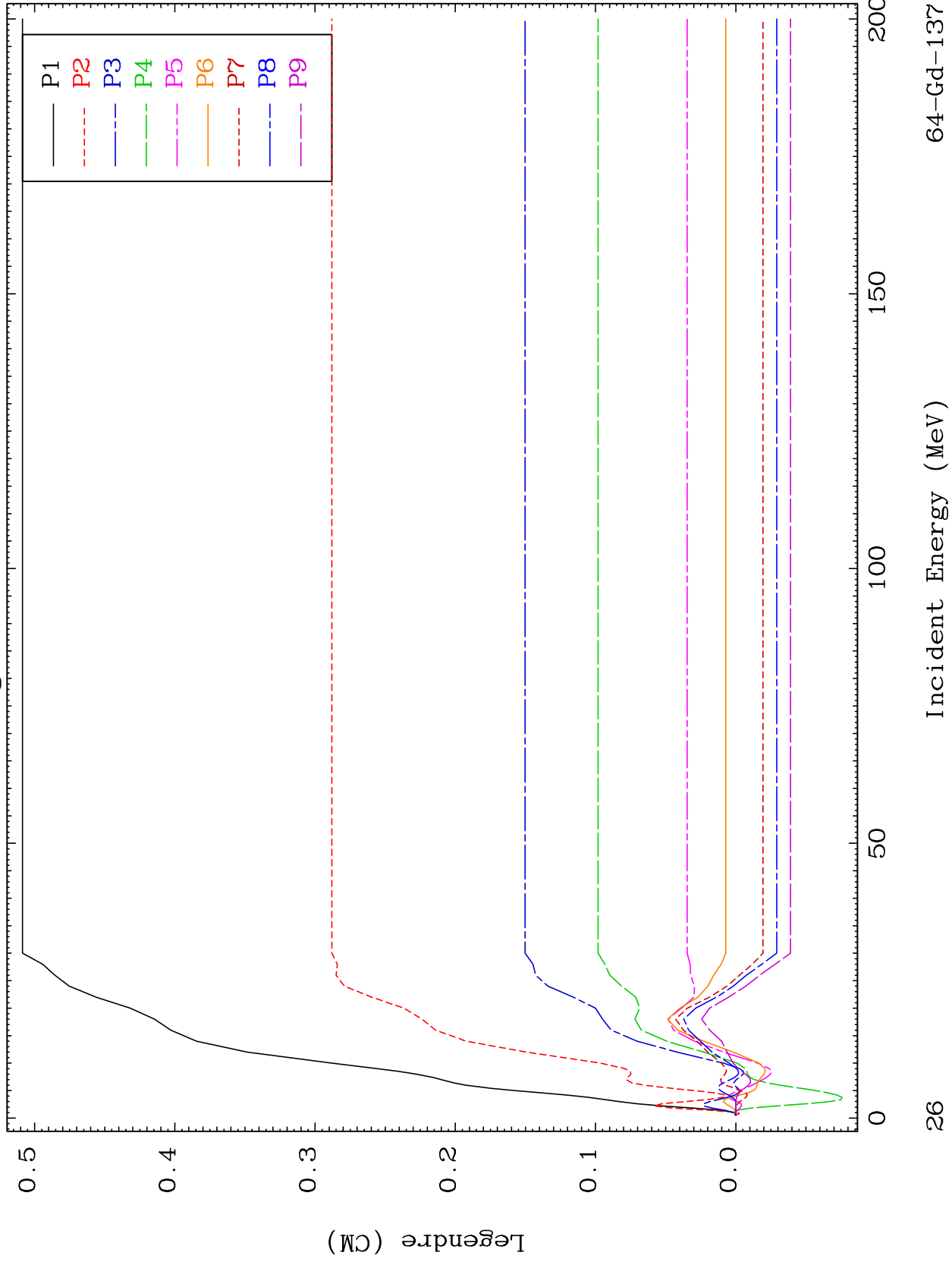
64-Gd-137



MAT 6380

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

64-Gd-137



64-Gd-137

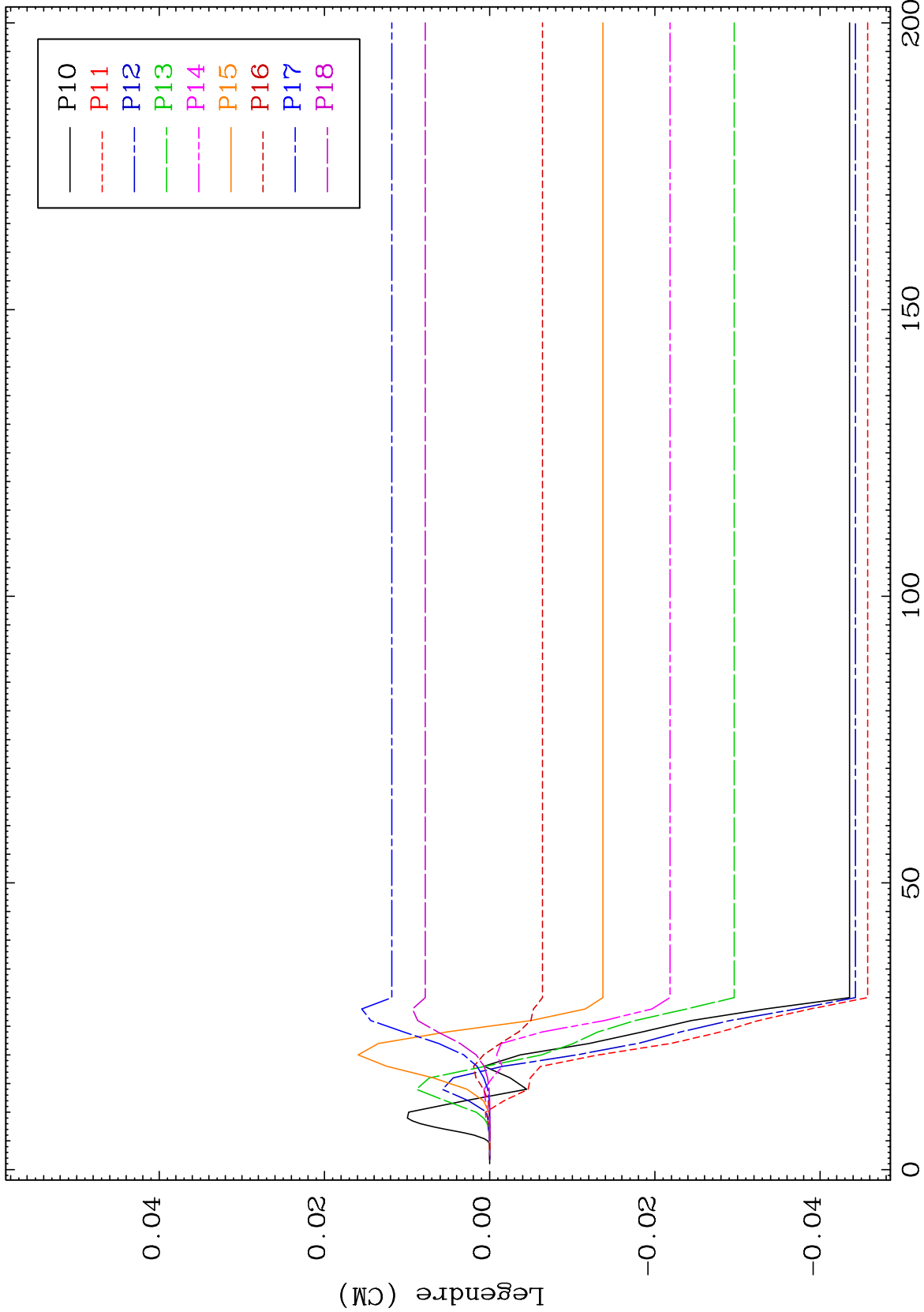
Incident Energy (MeV)

26

MAT 6380

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

64-Gd-137



27

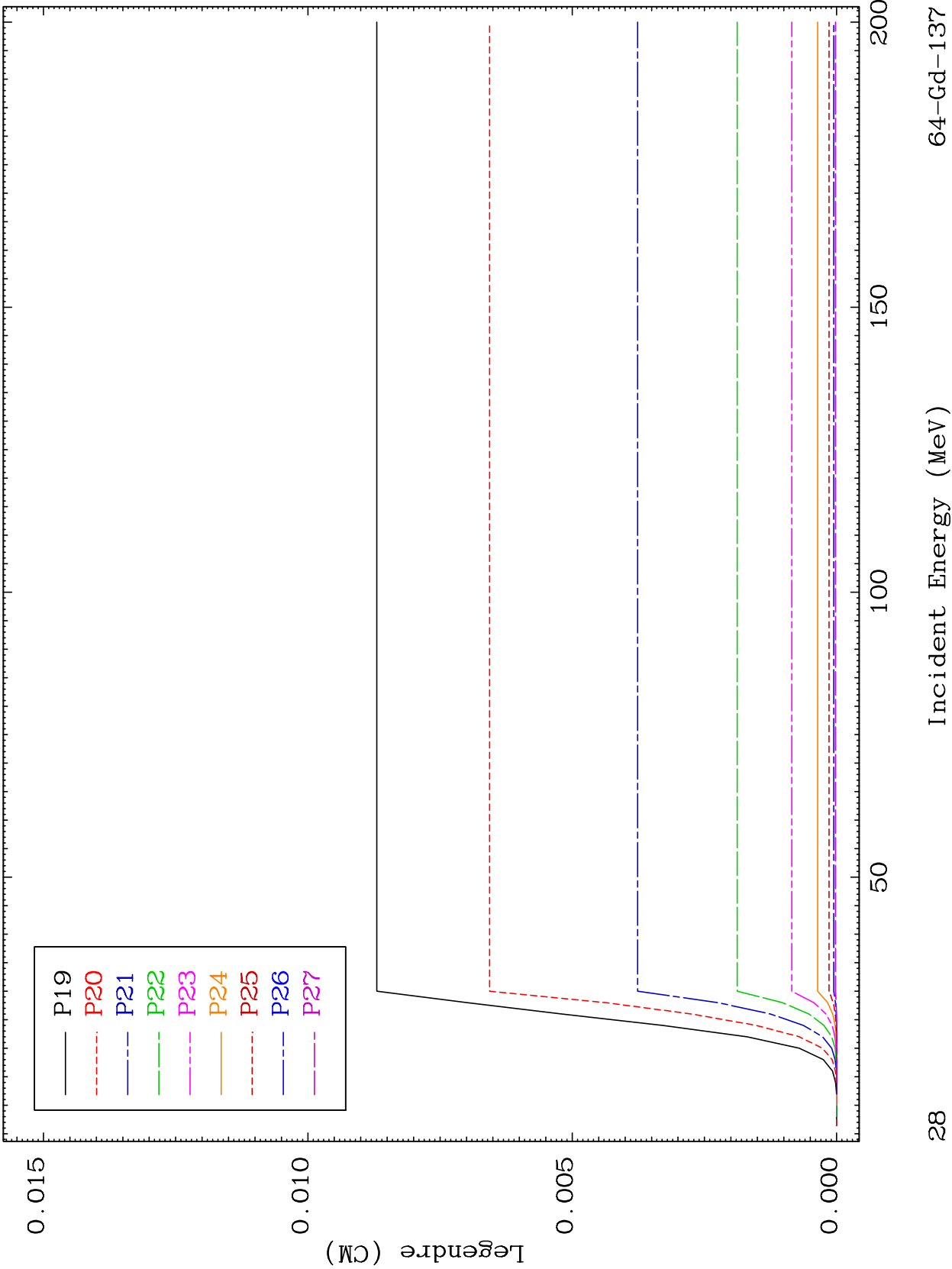
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



28

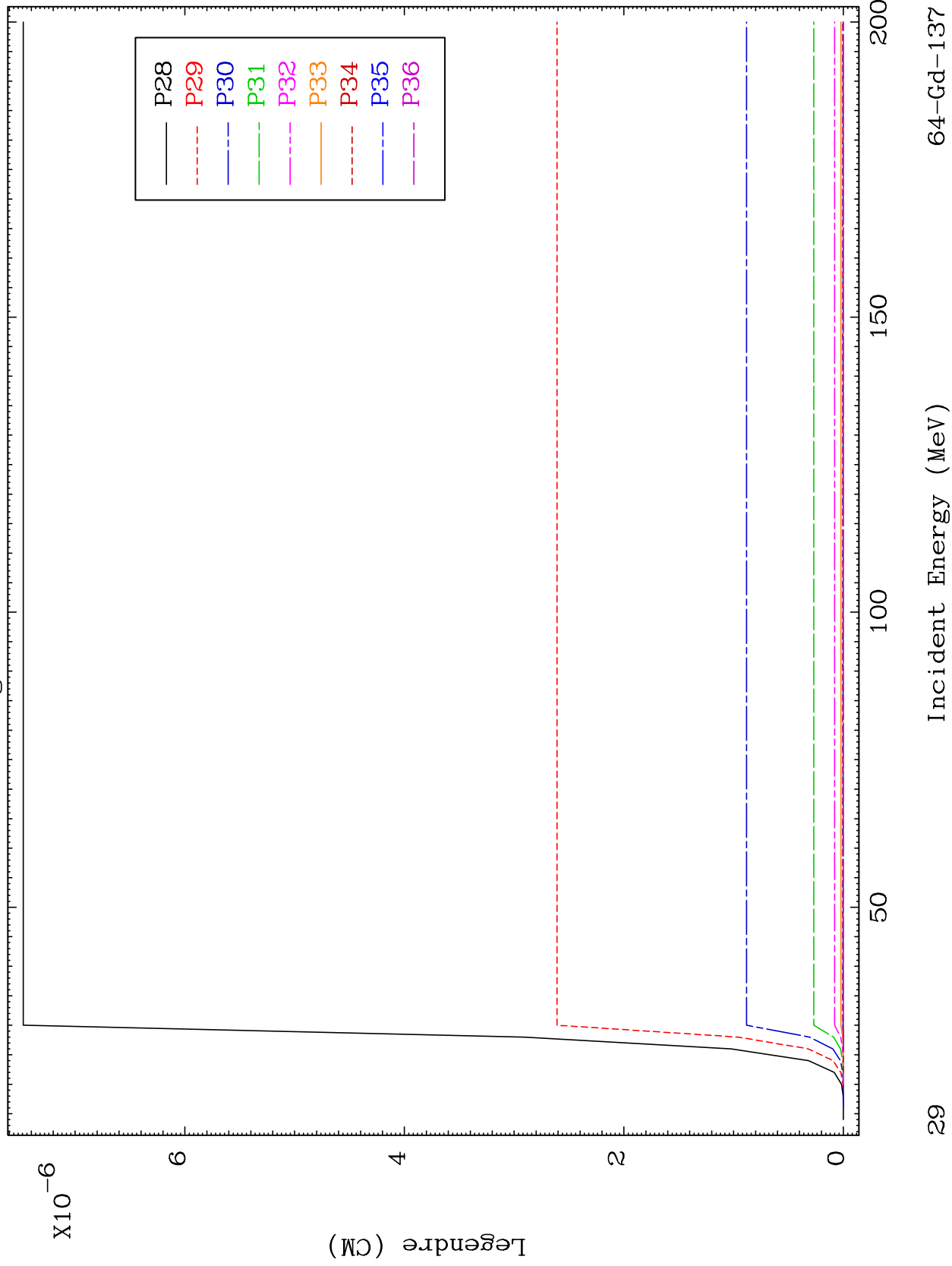
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



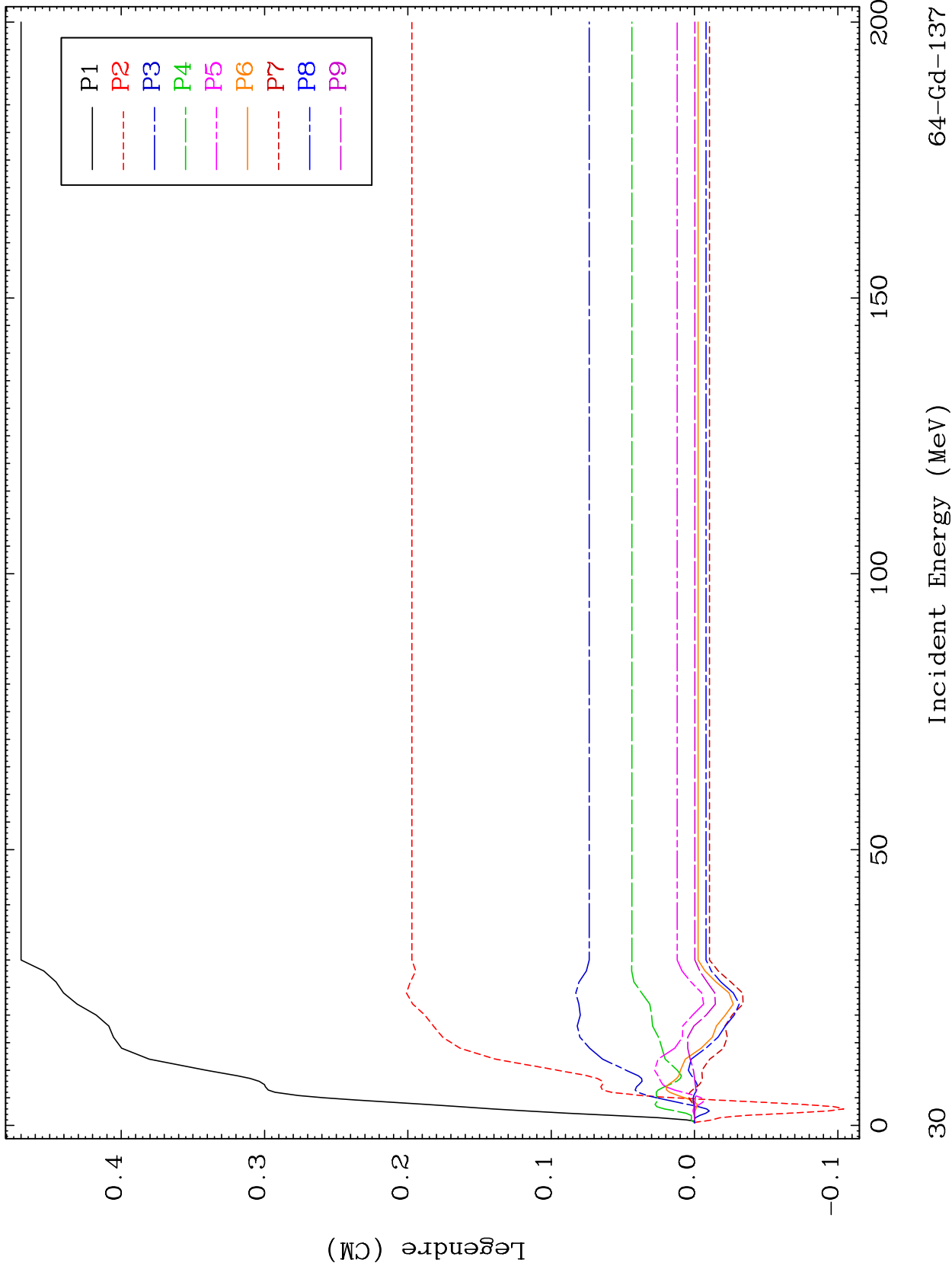
29

64-Gd-137

MAT 6380

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

64-Gd-137



64-Gd-137

Incident Energy (MeV)

30

200

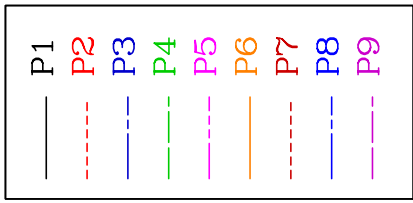
150

100

50

0

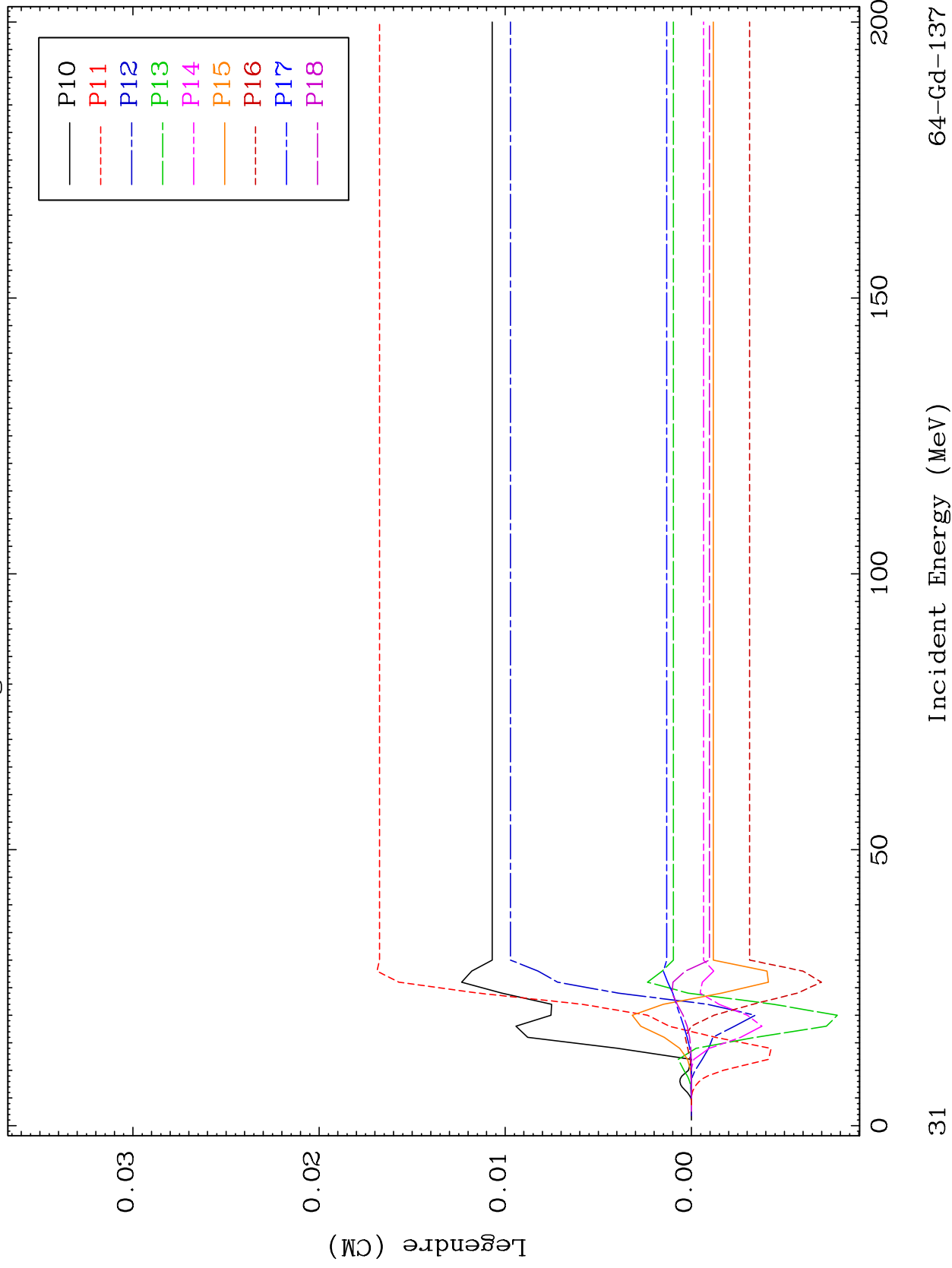
Legendre (CM)



MAT 6380

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

64-Gd-137

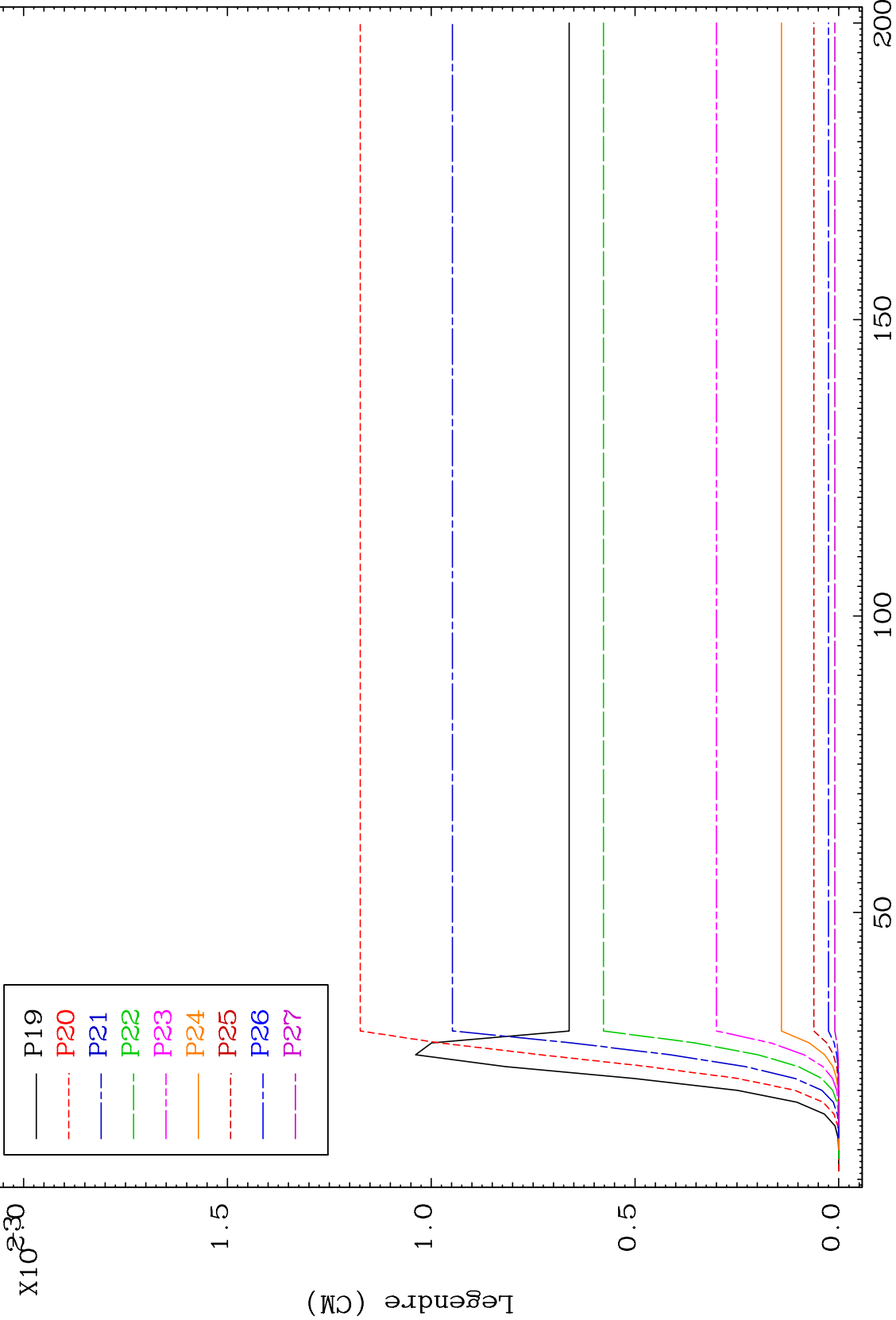
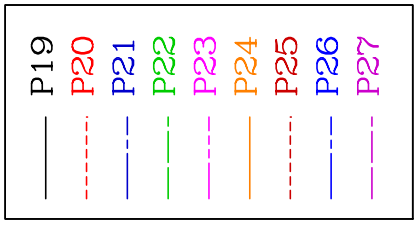


31

Incident Energy (MeV)

64-Gd-137

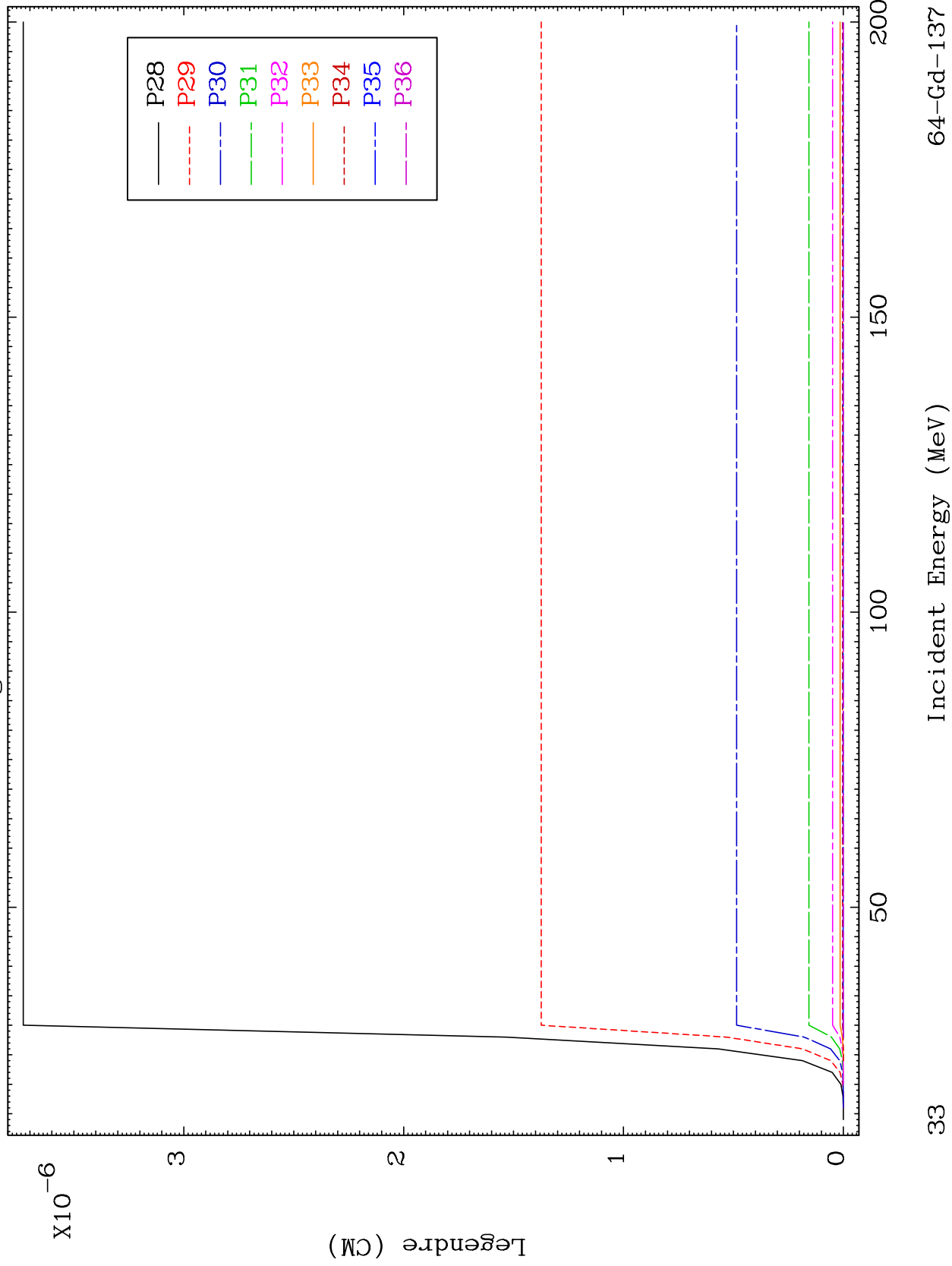




MAT 6380

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

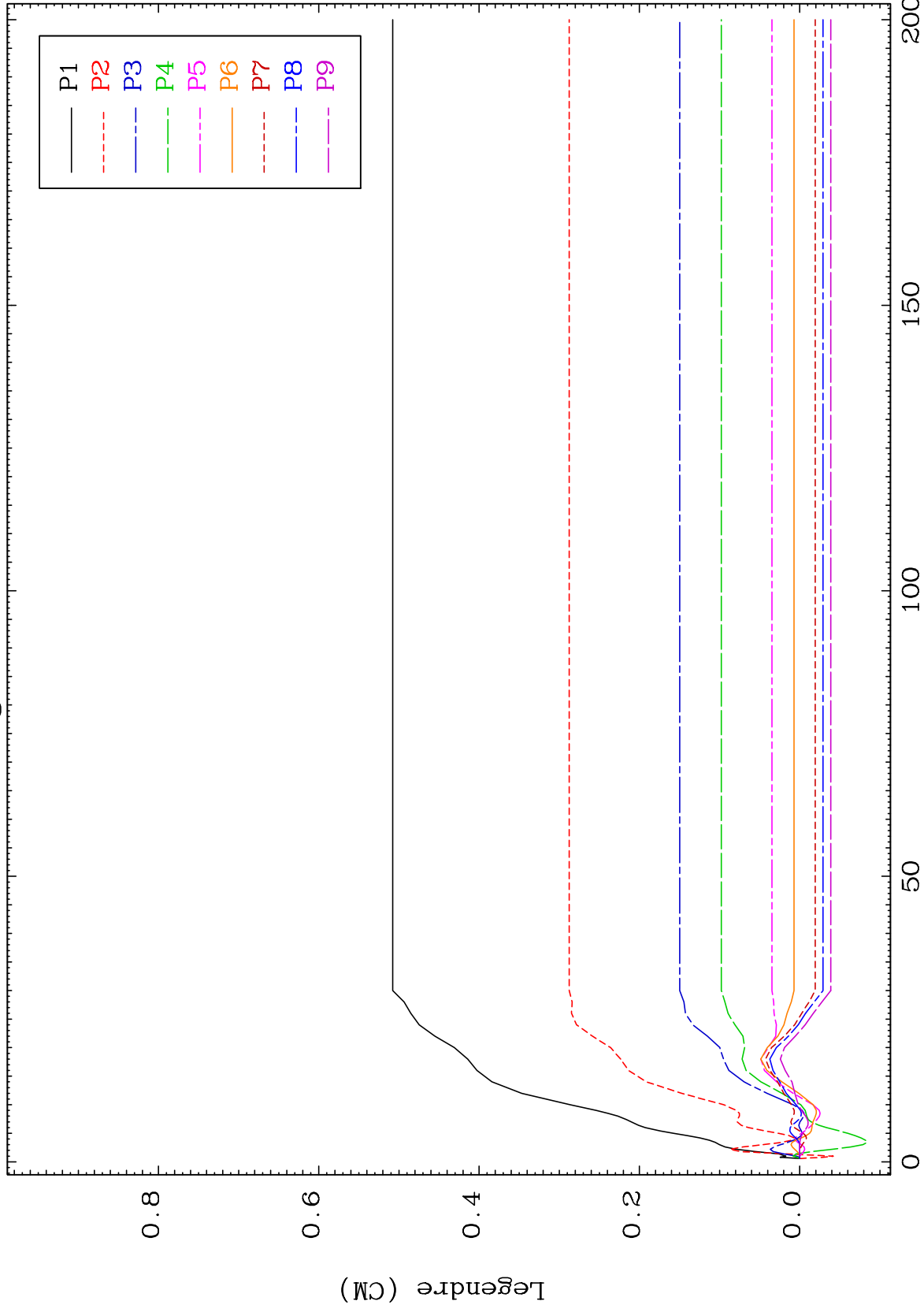
64-Gd-137



MAT 6380

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

64-Gd-137



34

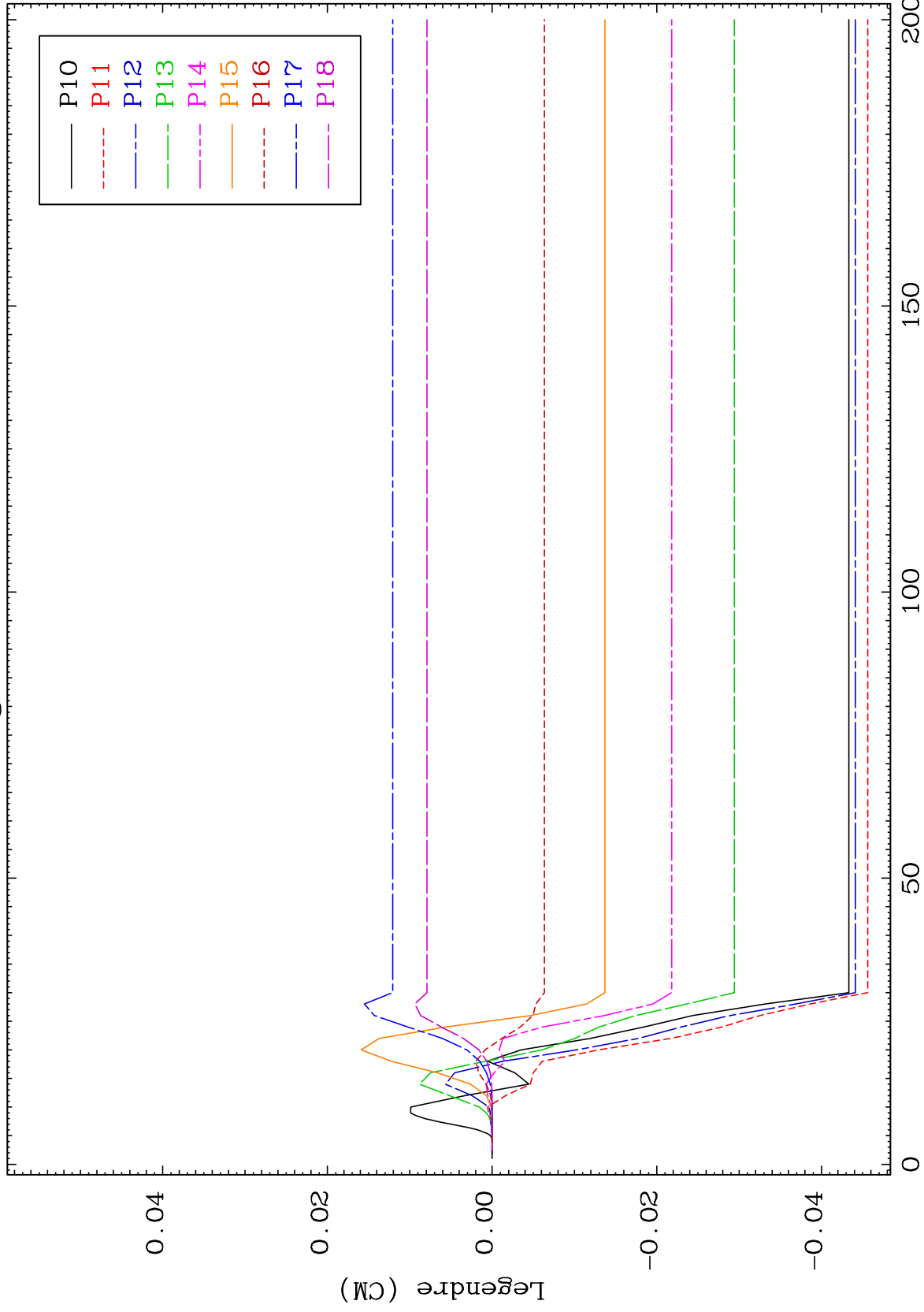
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

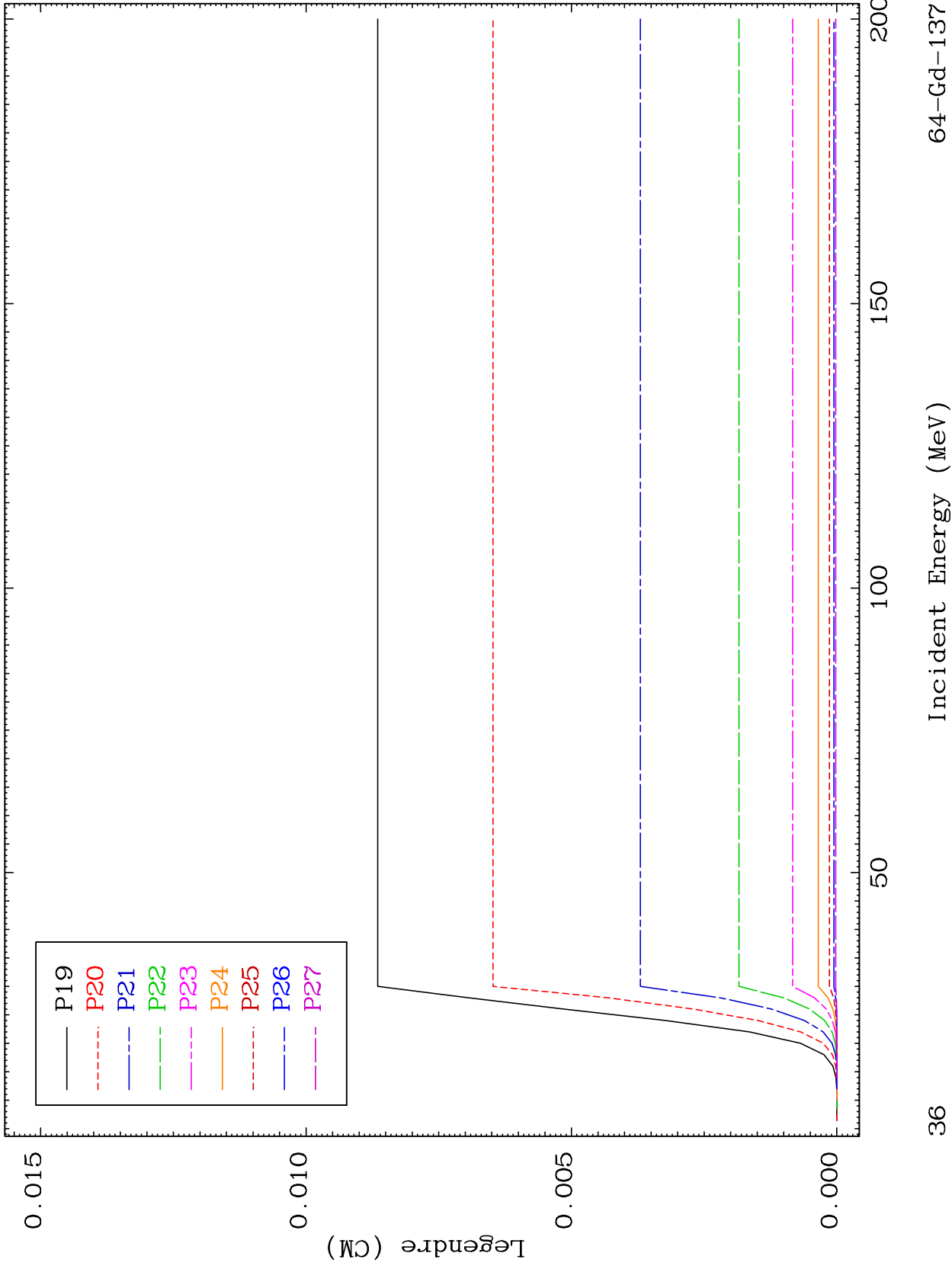
64-Gd-137



35

Incident Energy (MeV)

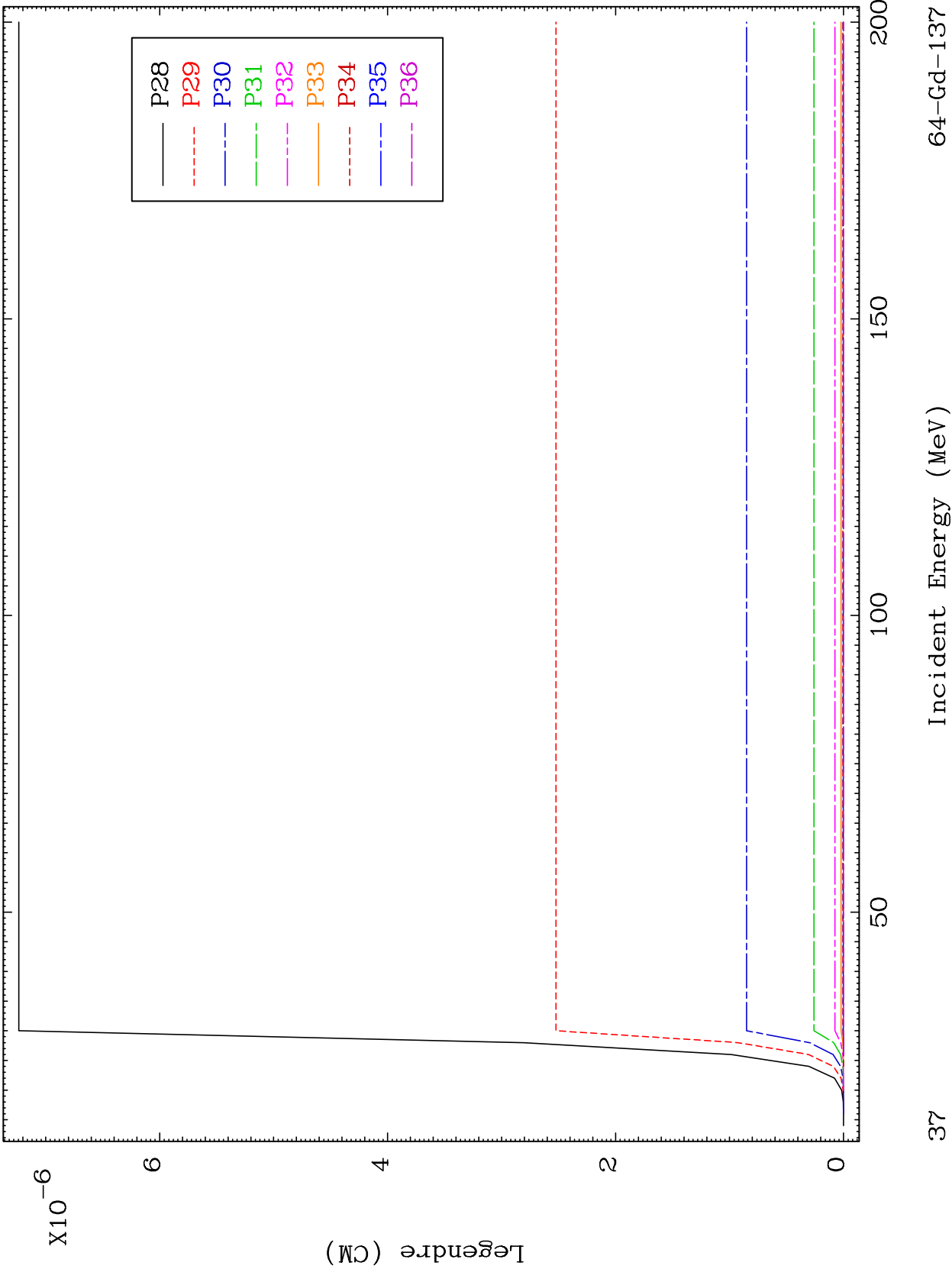
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MAT 6380

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

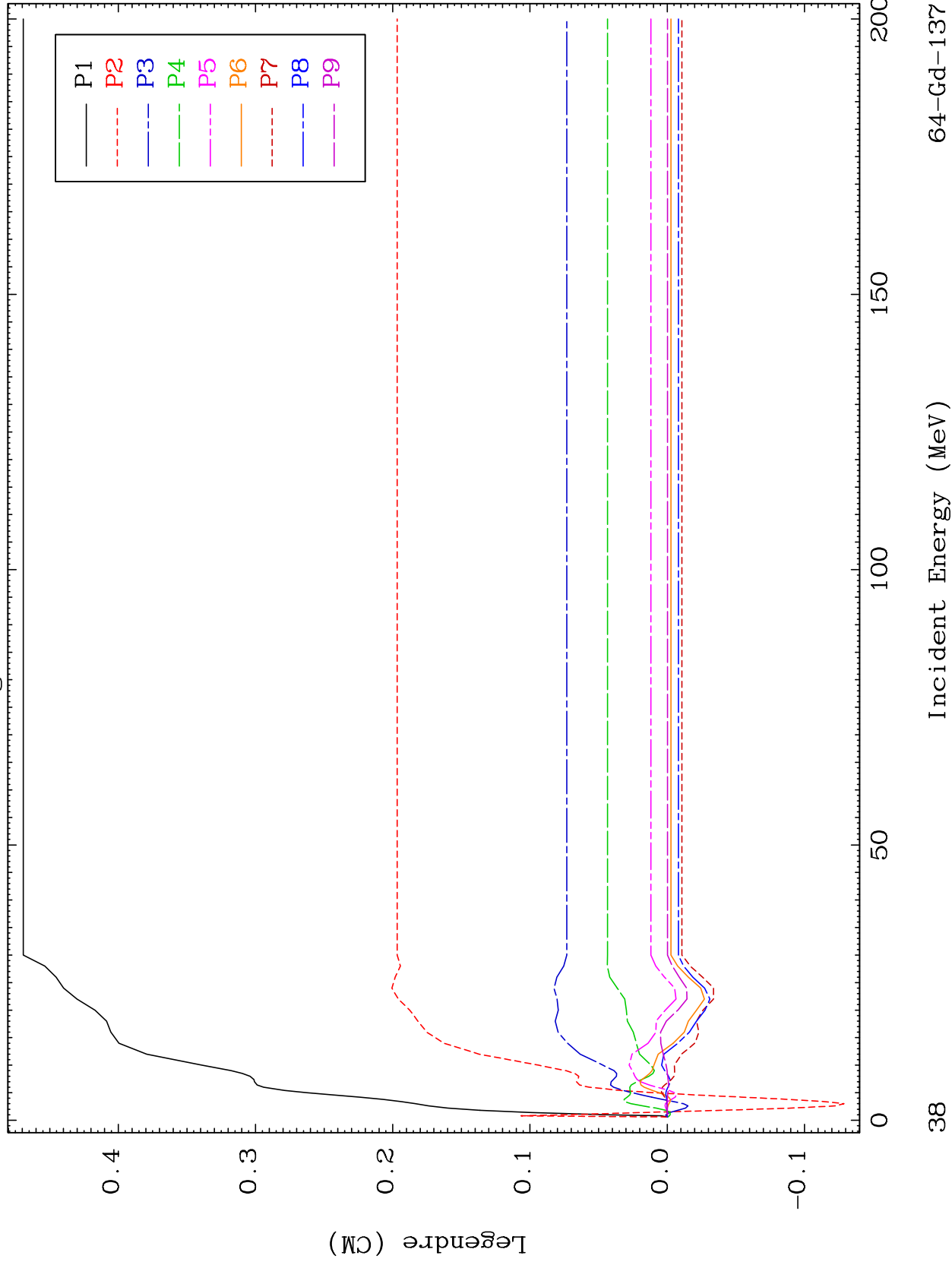
64-Gd-137



MAT 6380

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

64-Gd-137



64-Gd-137

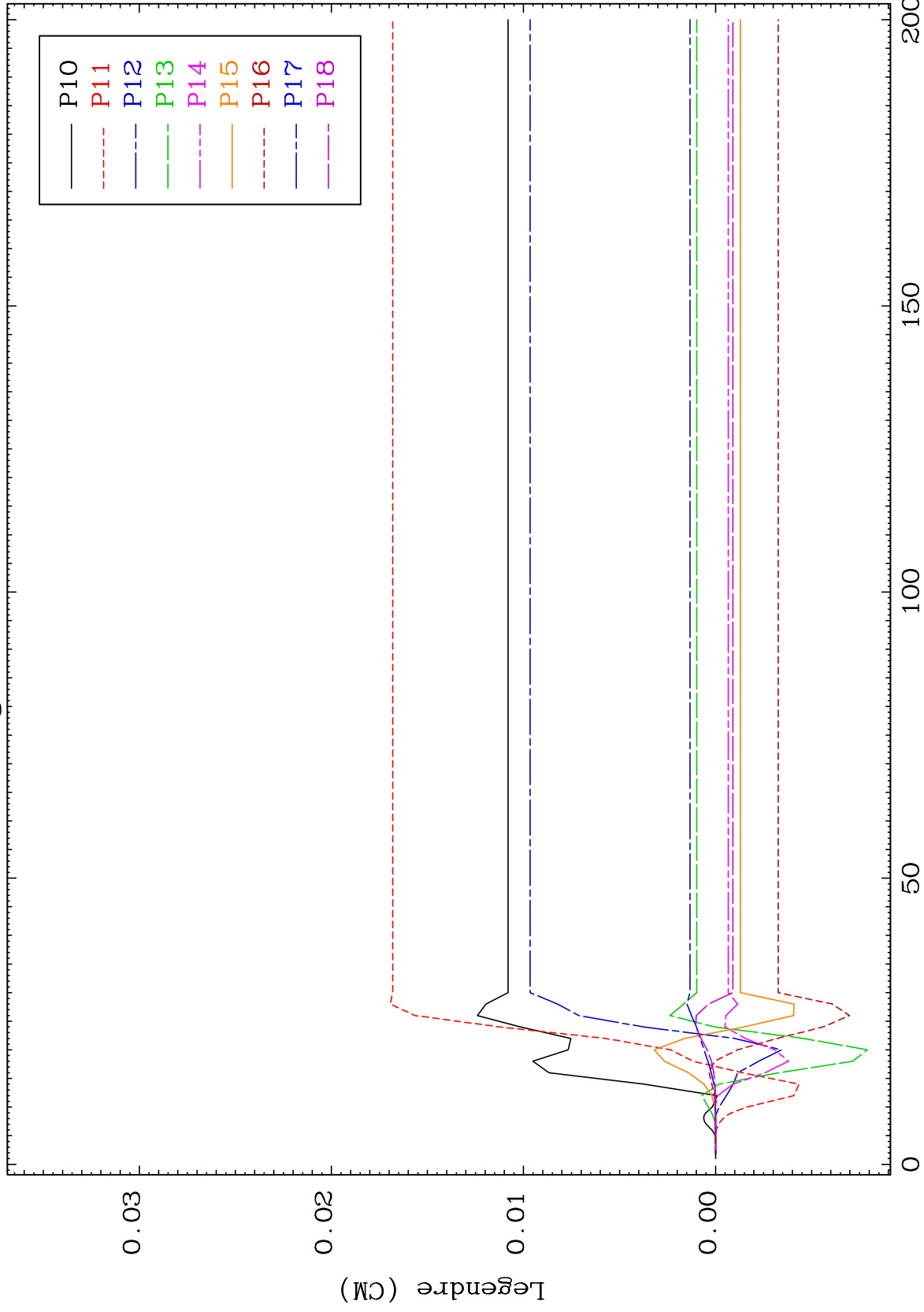
Incident Energy (MeV)

38

MAT 6380

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

64-Gd-137



39

Incident Energy (MeV)

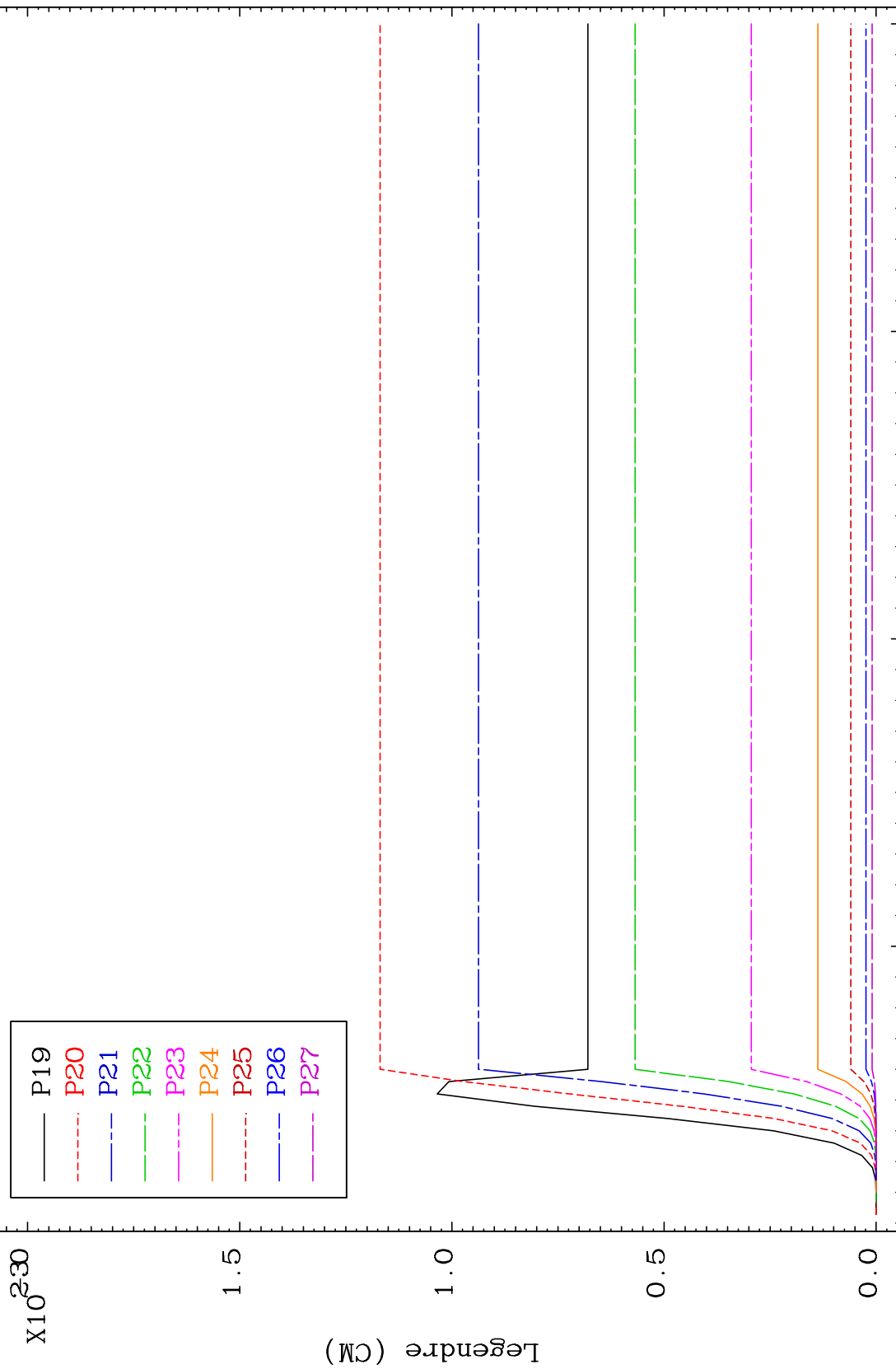
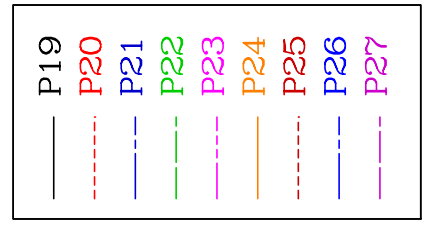
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MAT 6380

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

64-Gd-137



40

Incident Energy (MeV)

50

100

150

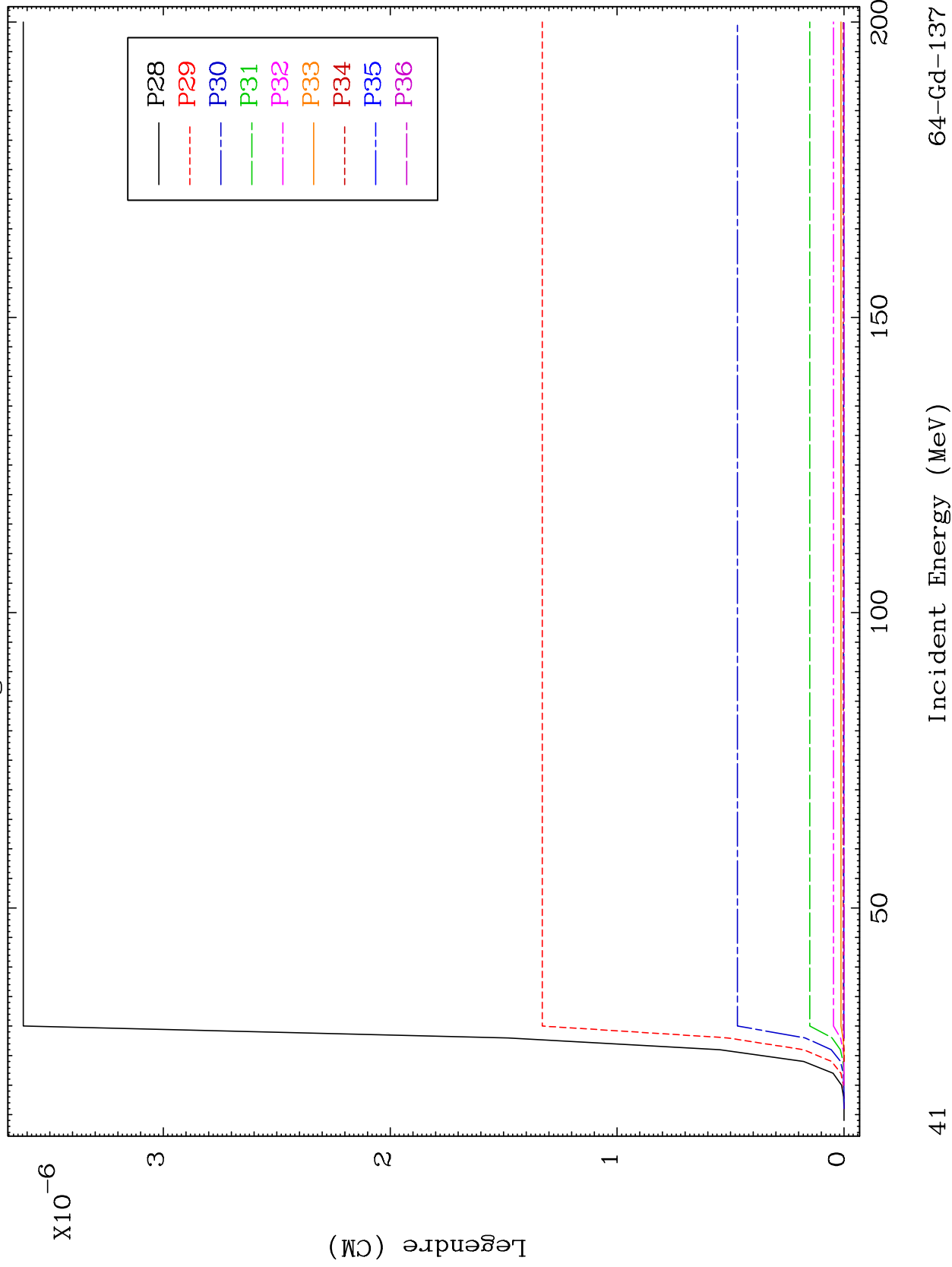
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64-Gd-137

MAT 6380

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

64-Gd-137



41

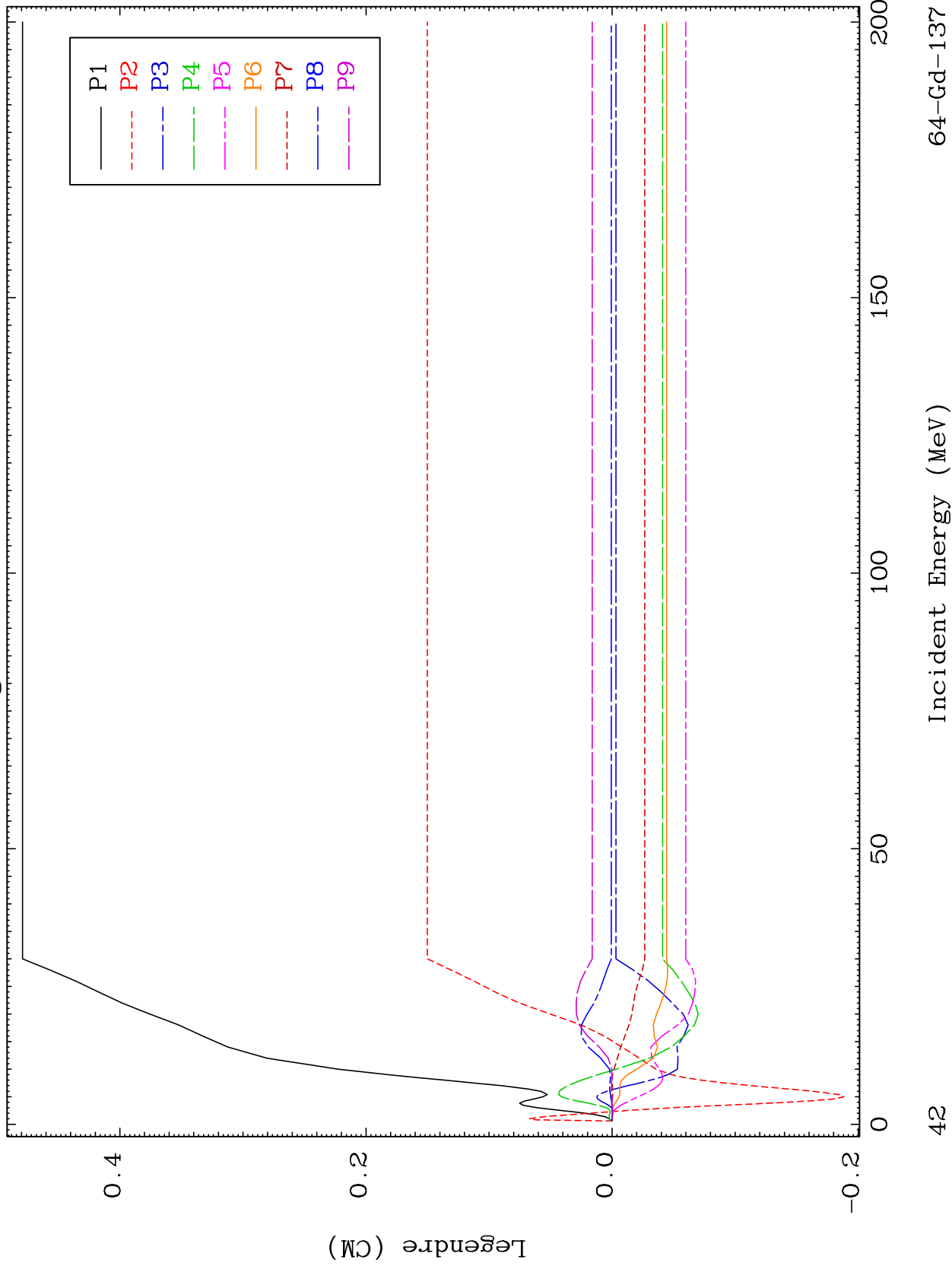
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

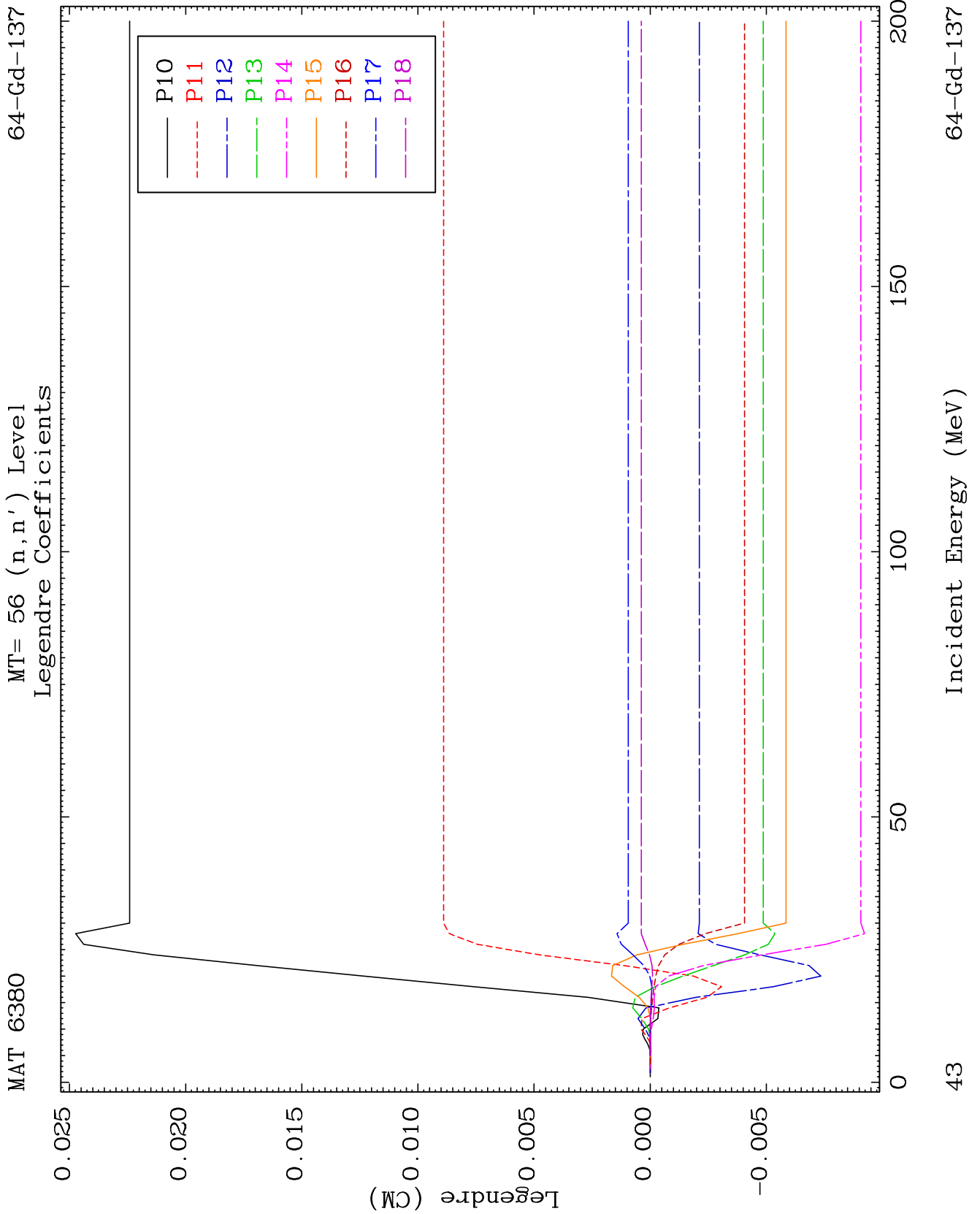
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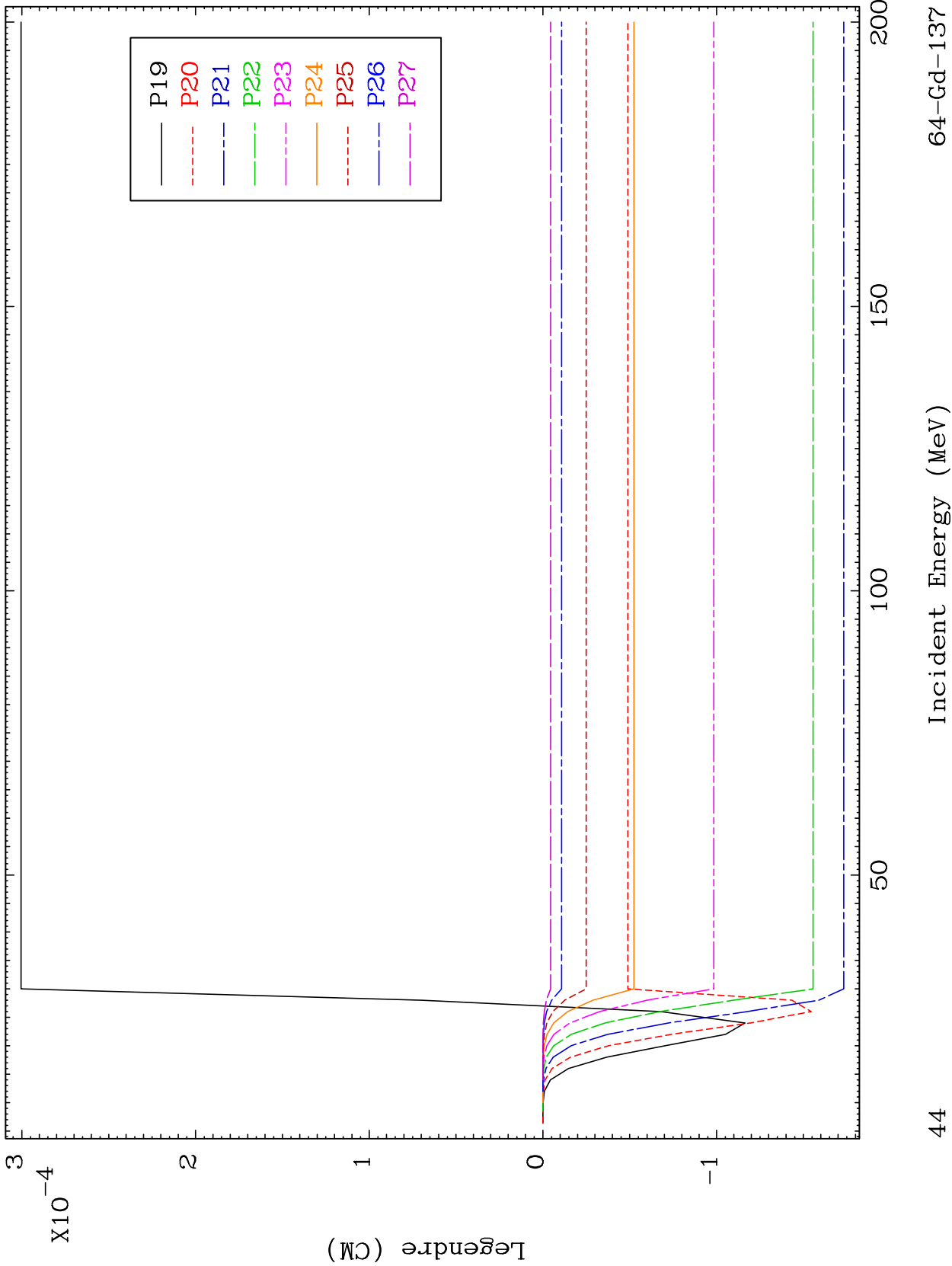


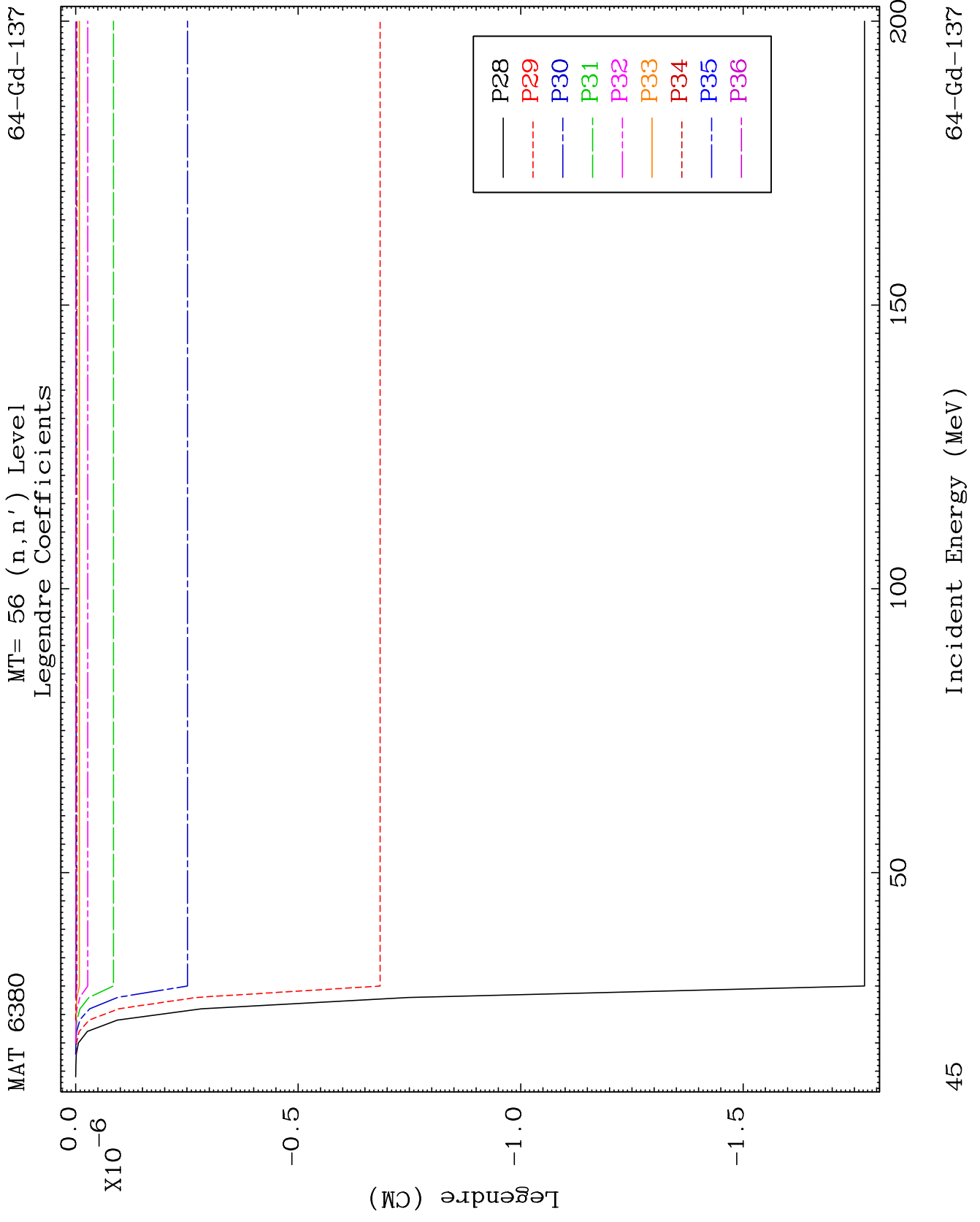
64-Gd-137

Incident Energy (MeV)

42



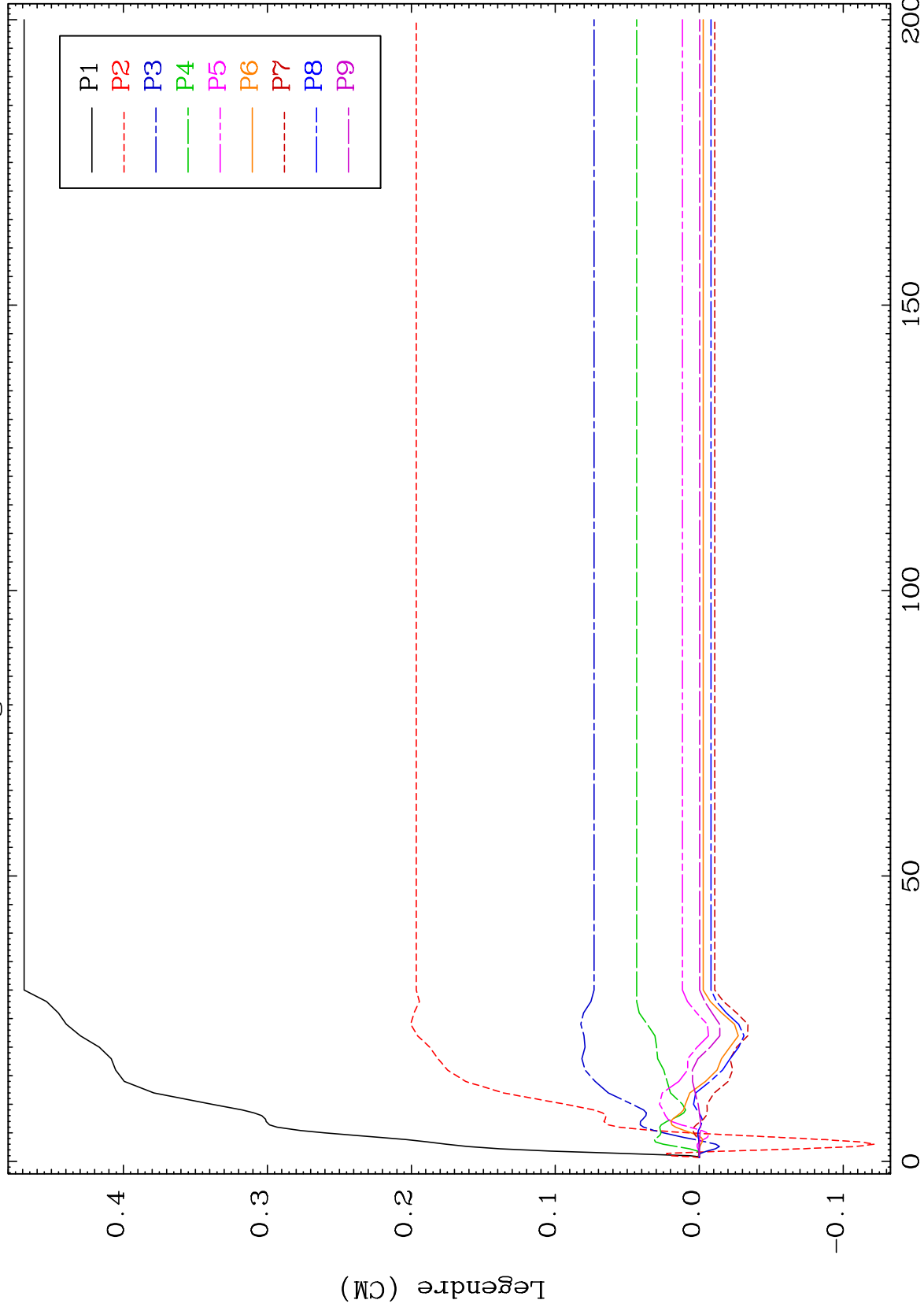




MAT 6380

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

64-Gd-137



46

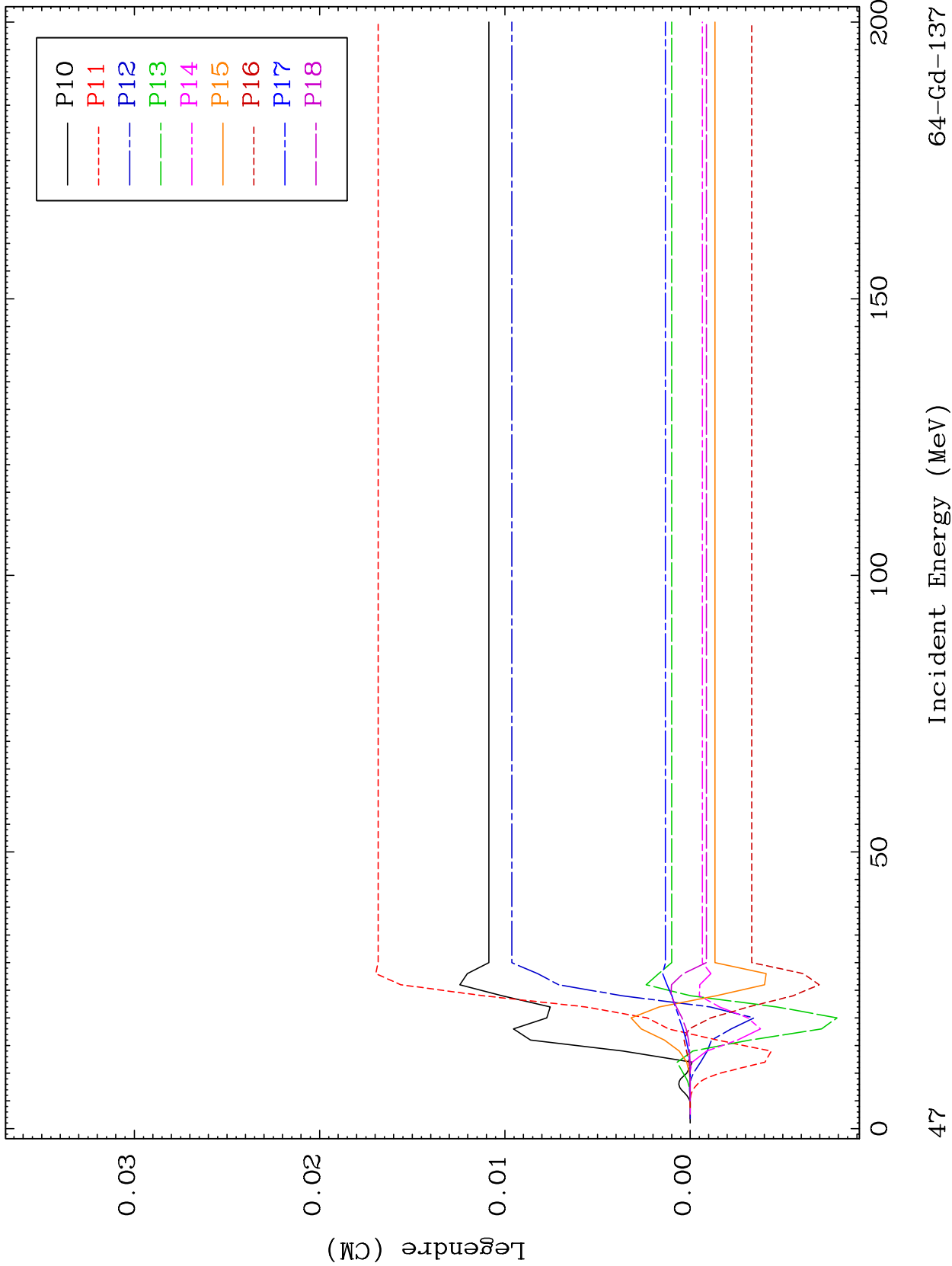
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



47

Incident Energy (MeV)

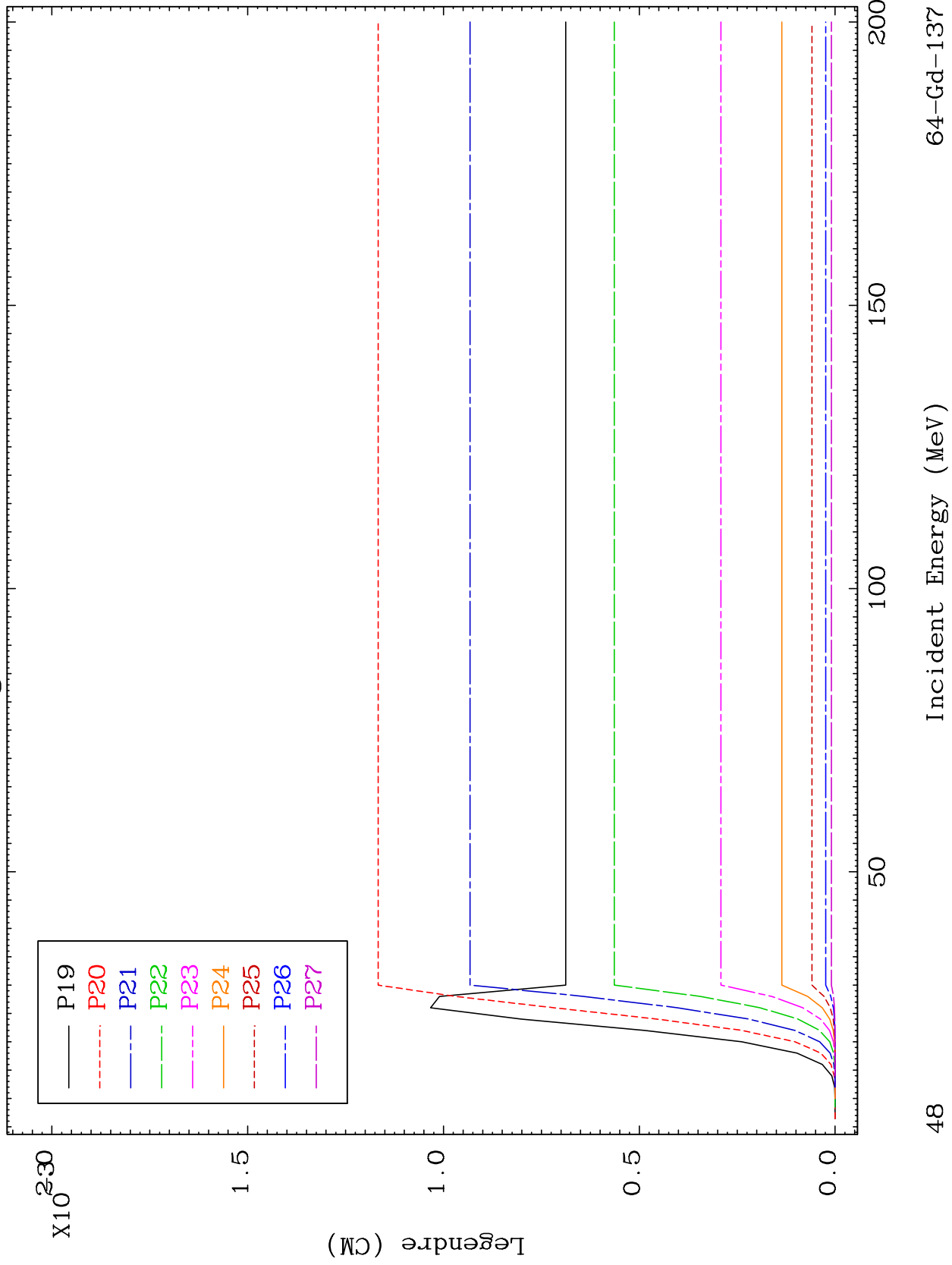
64-Gd-137



MAT 6380

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

64-Gd-137



48

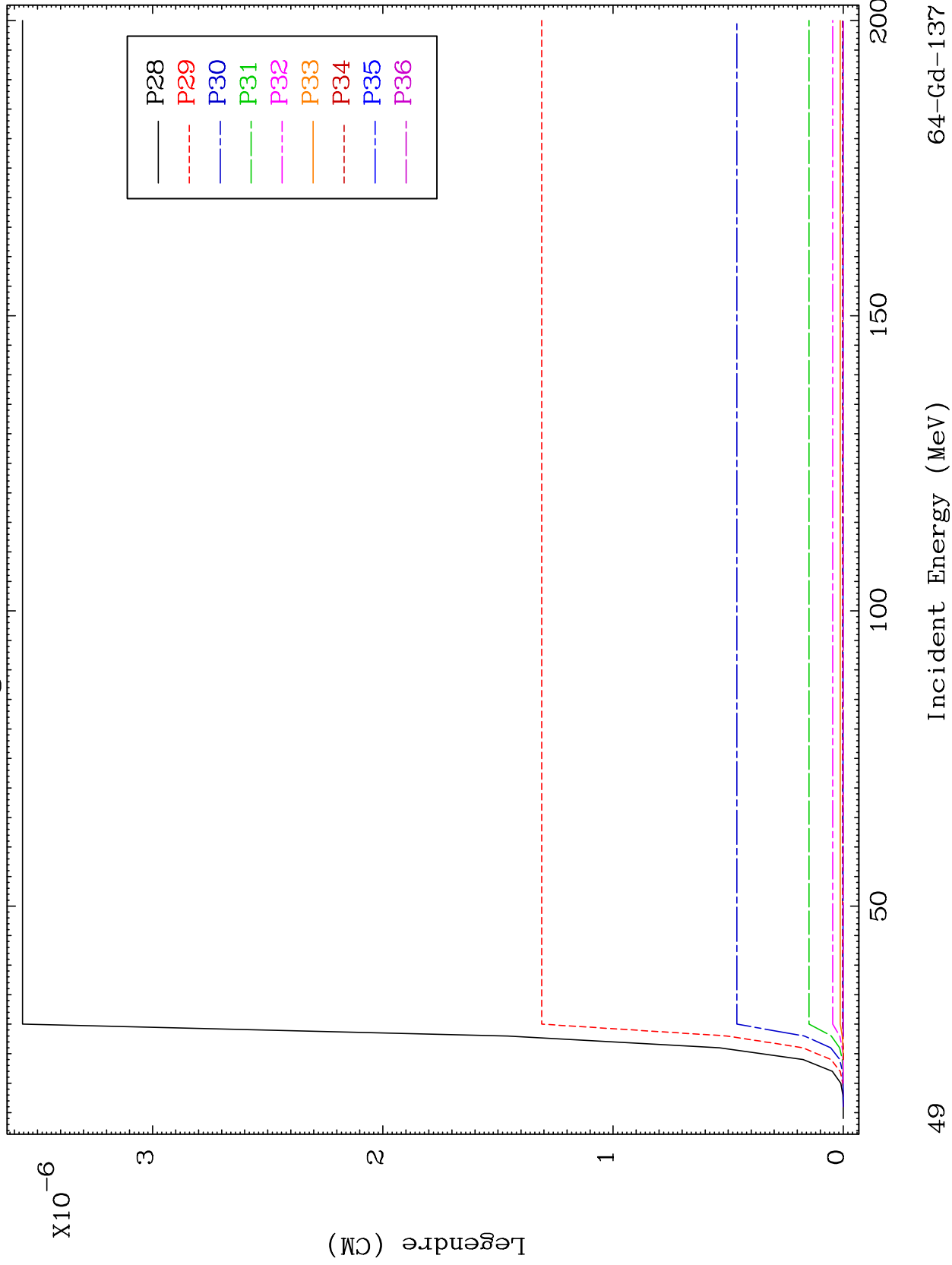
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



49

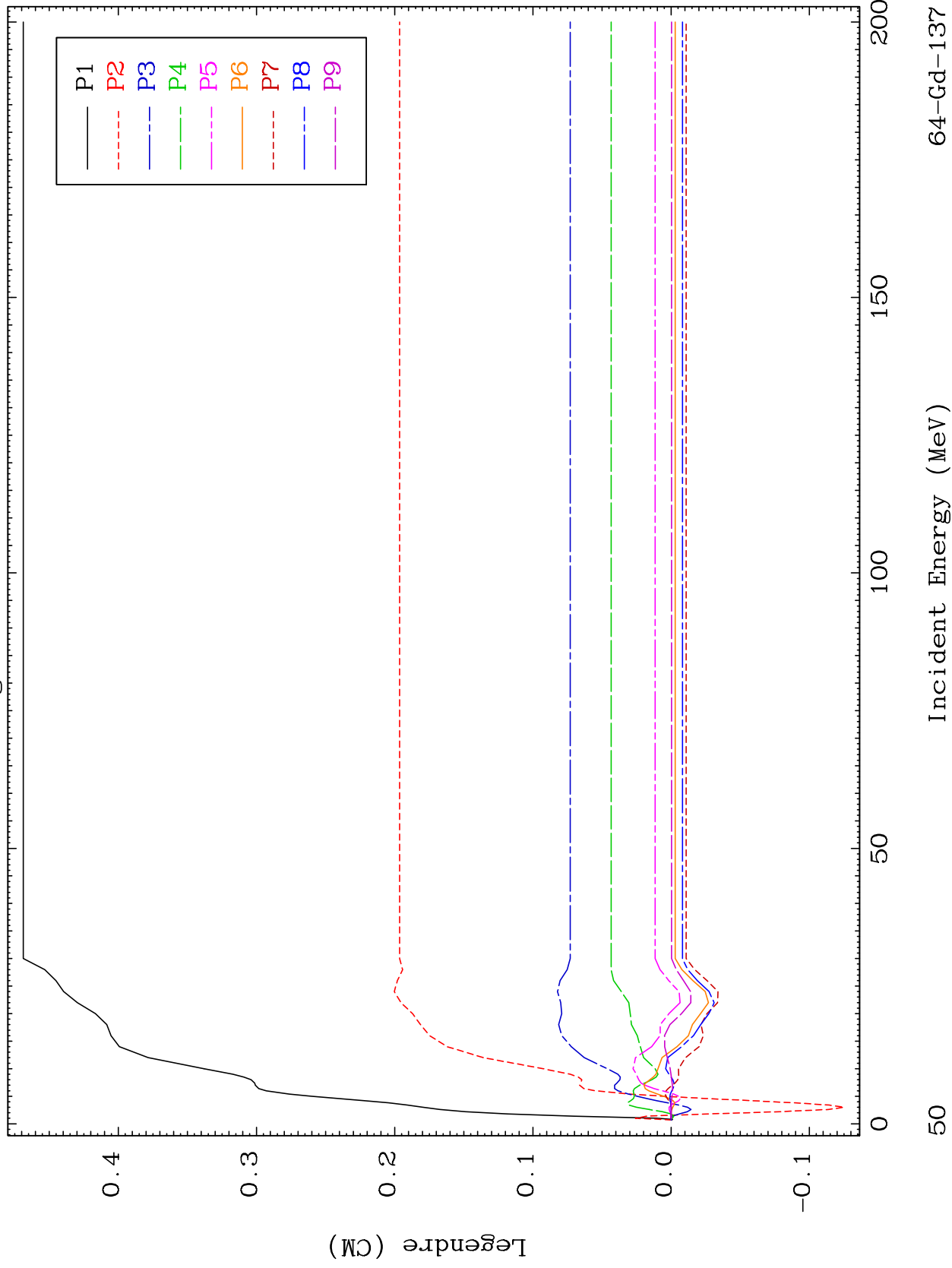
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137

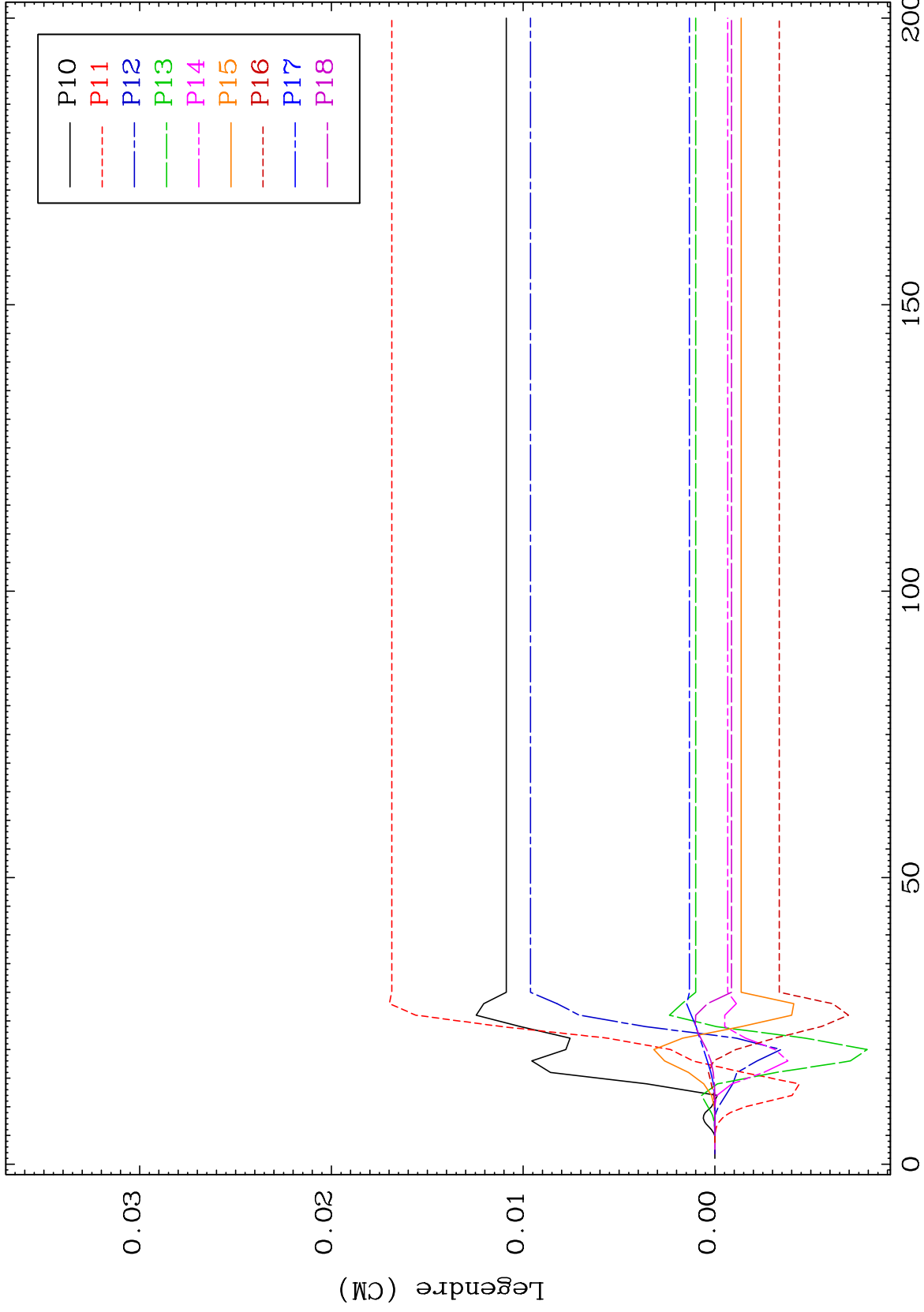


64-Gd-137

MAT 6380

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

64-Gd-137



51

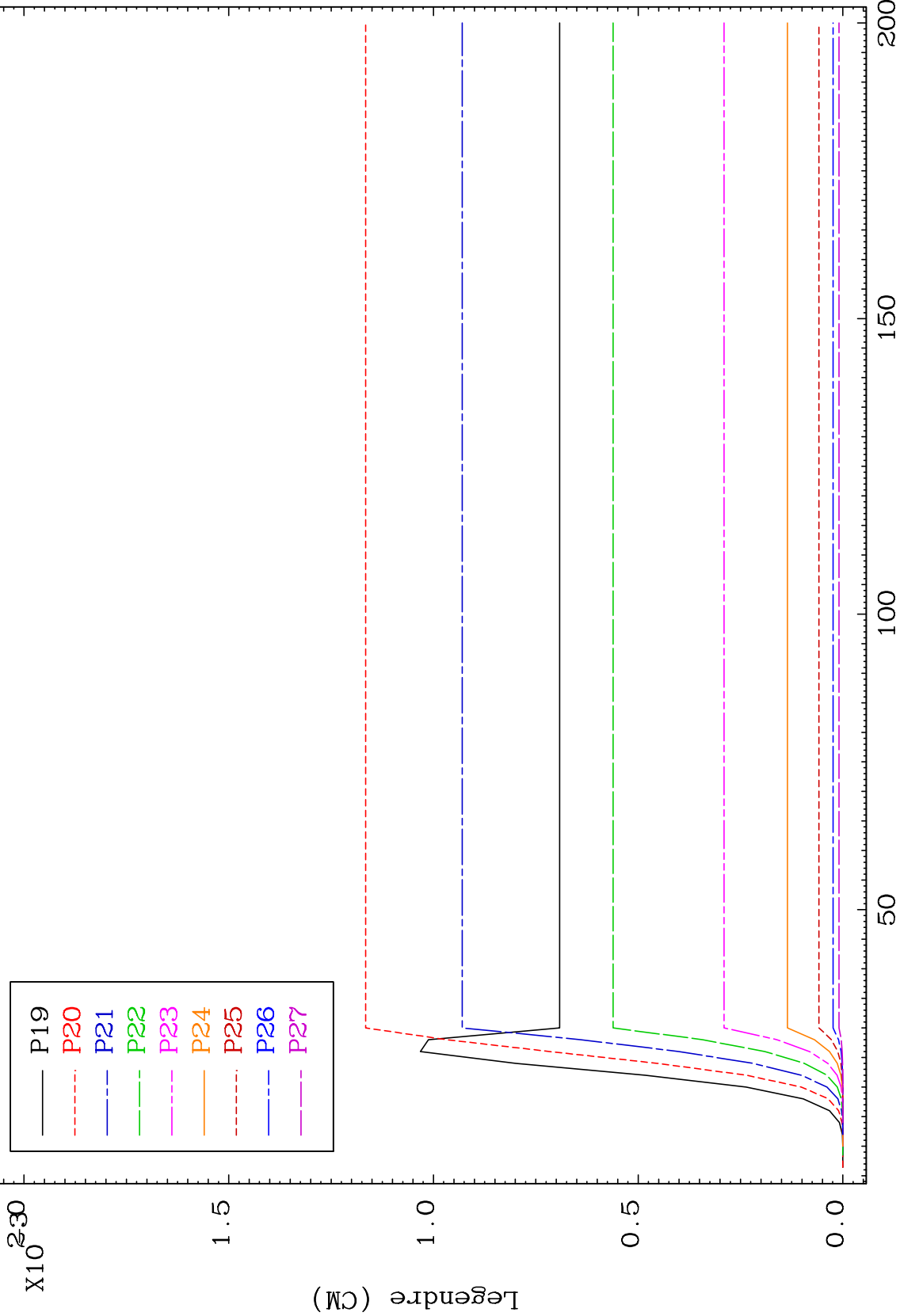
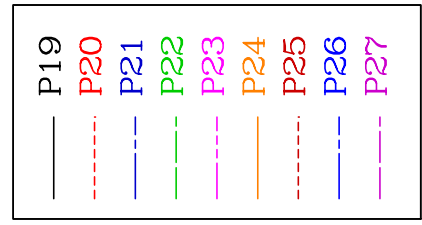
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



52

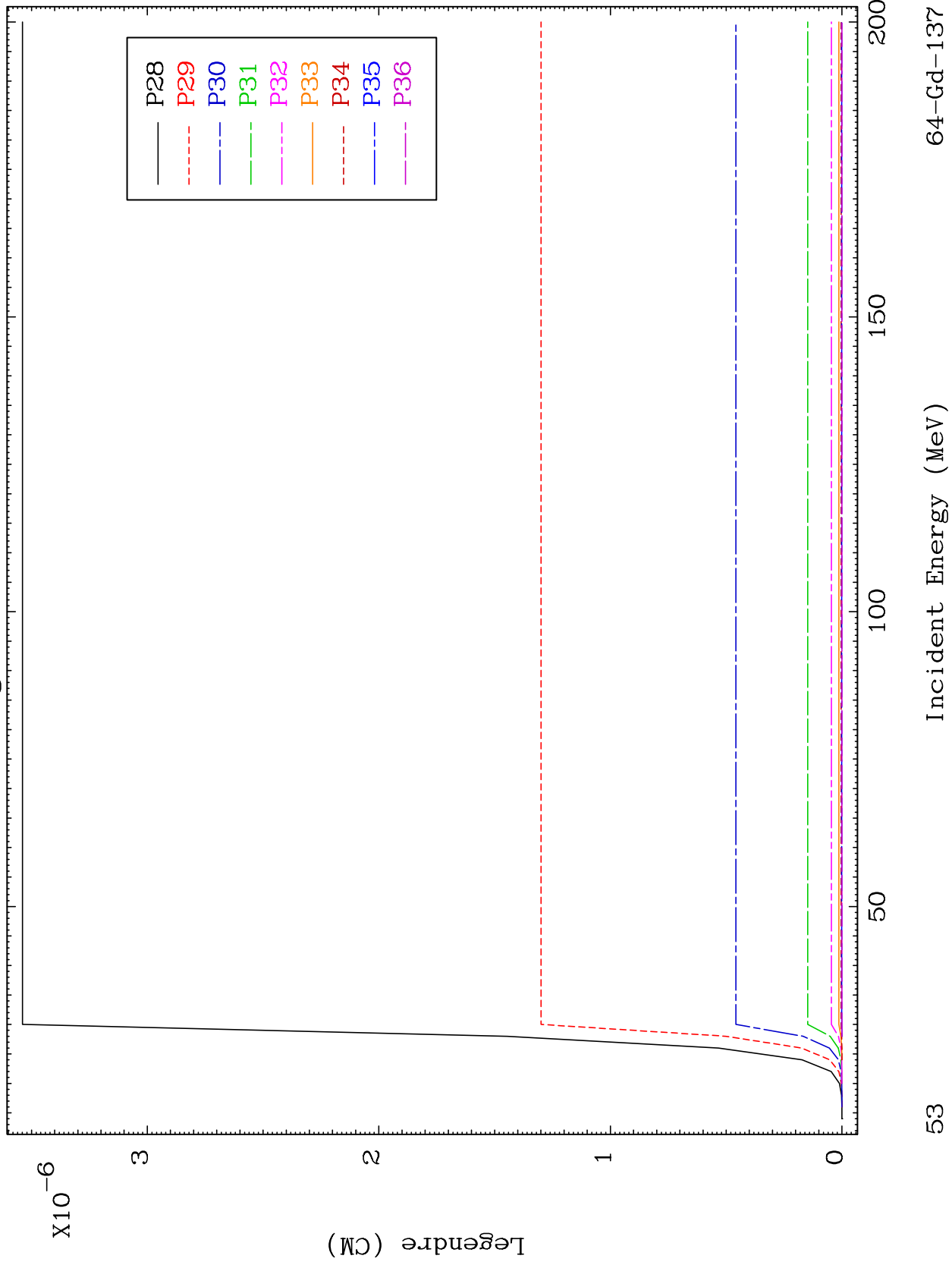
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

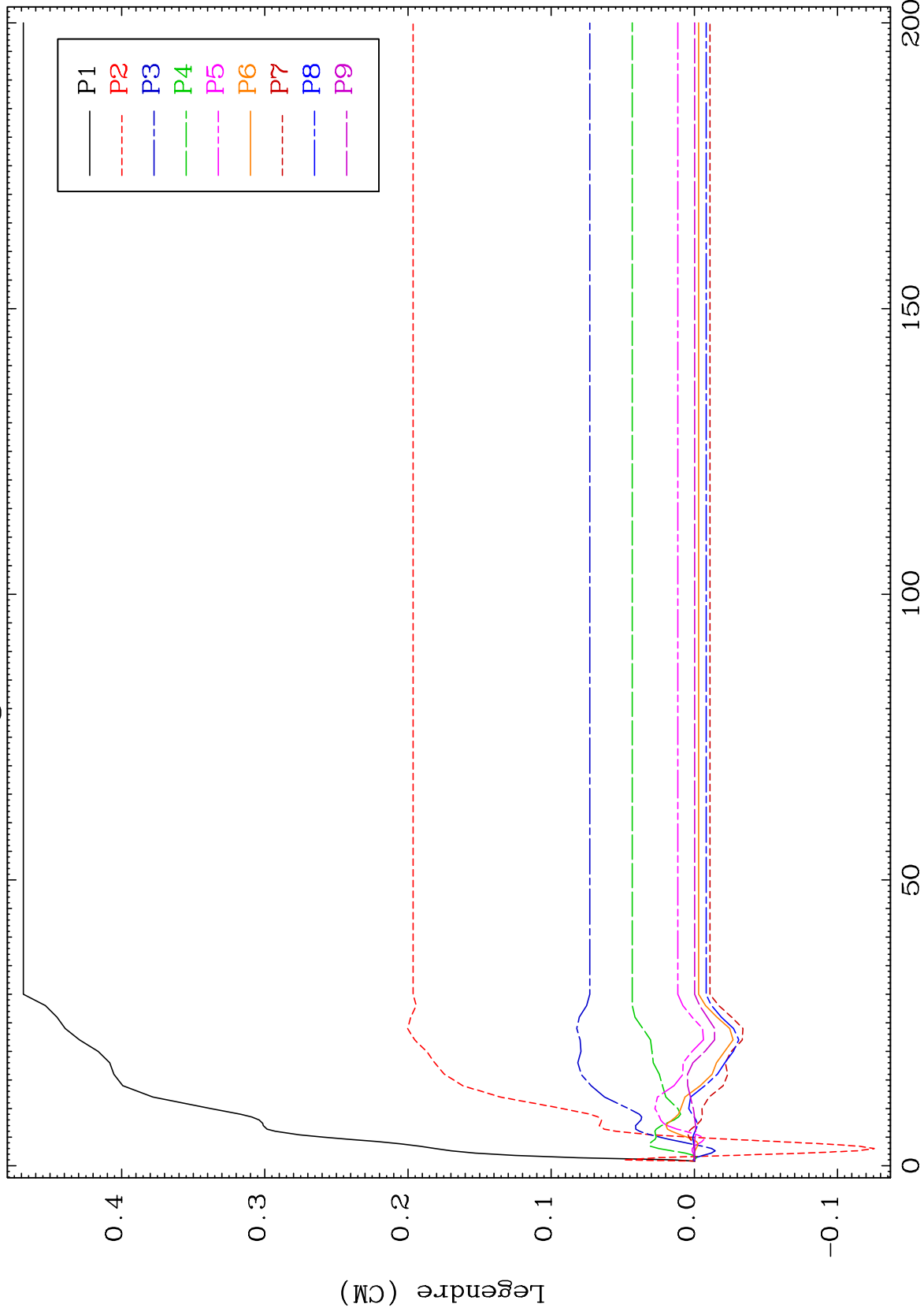
64-Gd-137



MAT 6380

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

64-Gd-137



64-Gd-137

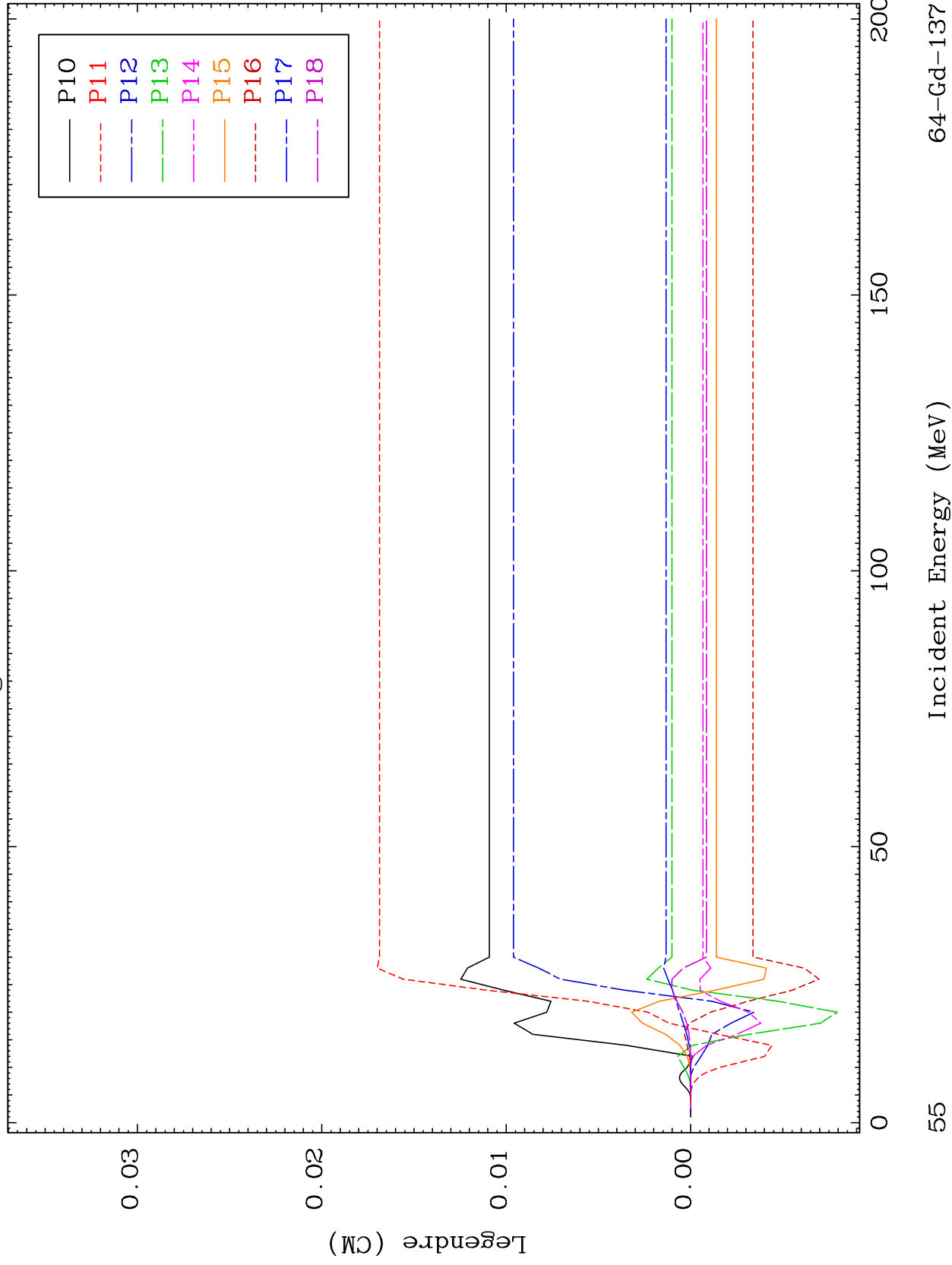
Incident Energy (MeV)

54

MAT 6380

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

64-Gd-137

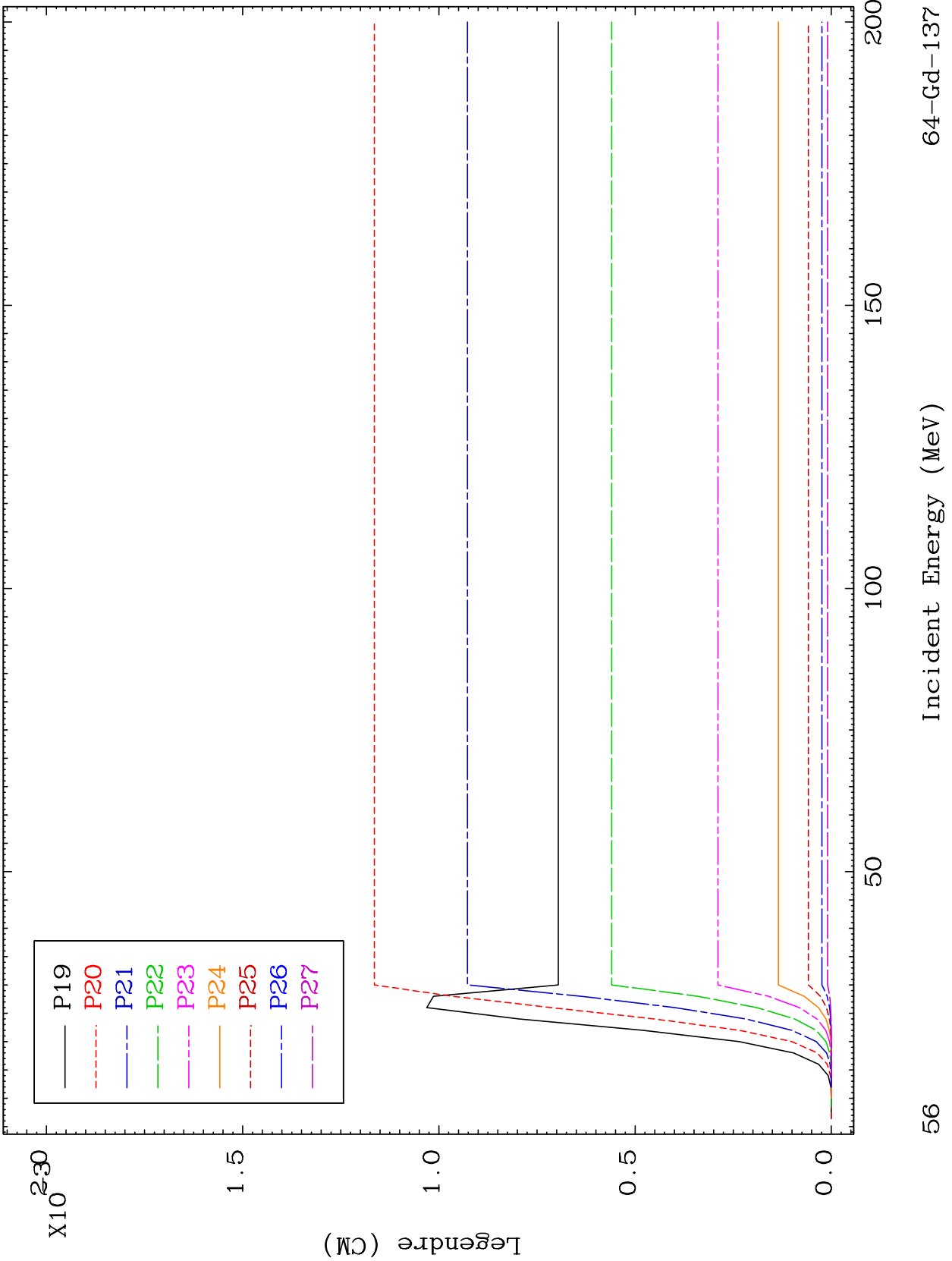


64-Gd-137

Incident Energy (MeV)

55

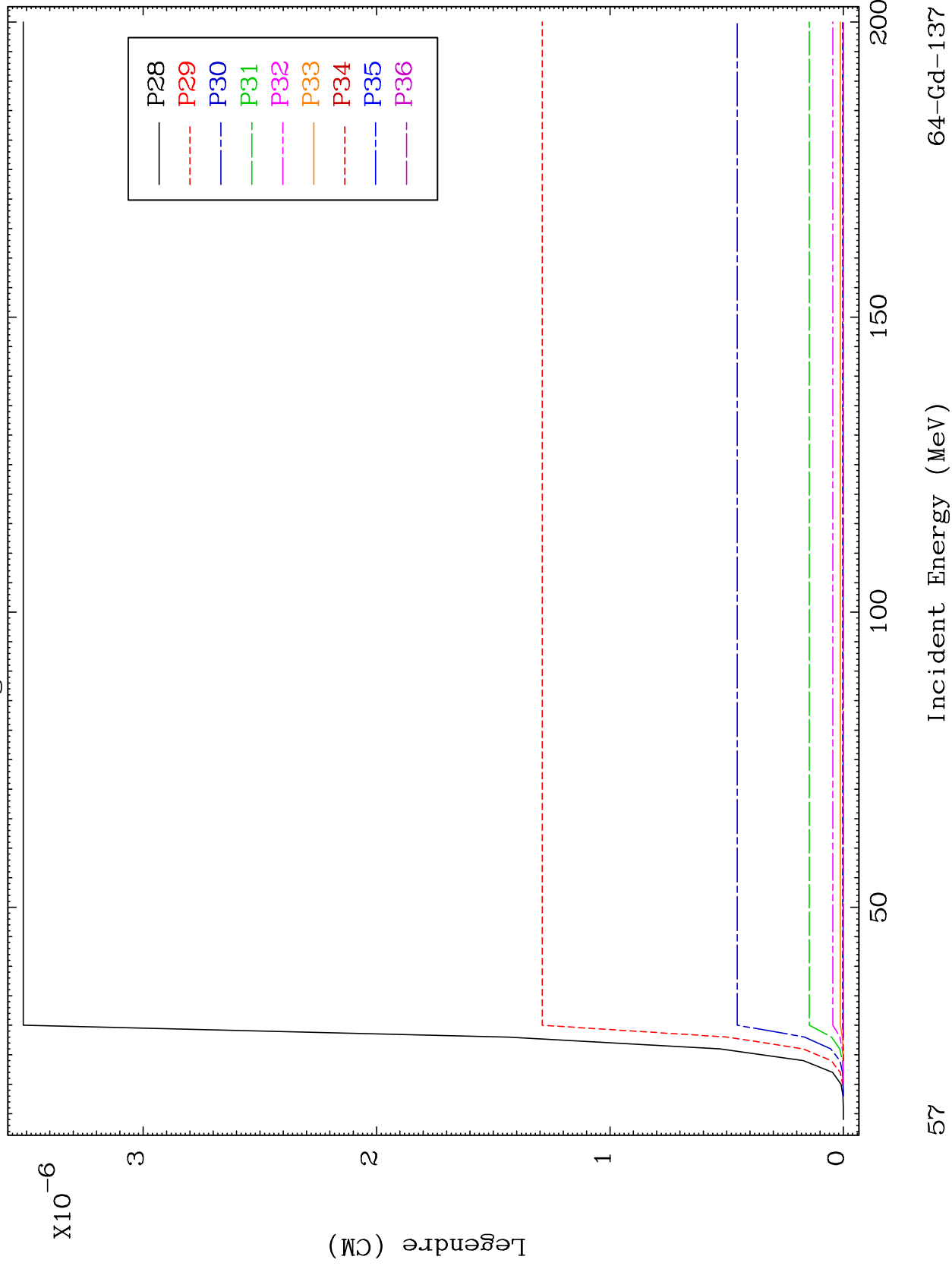




MAT 6380

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

64-Gd-137



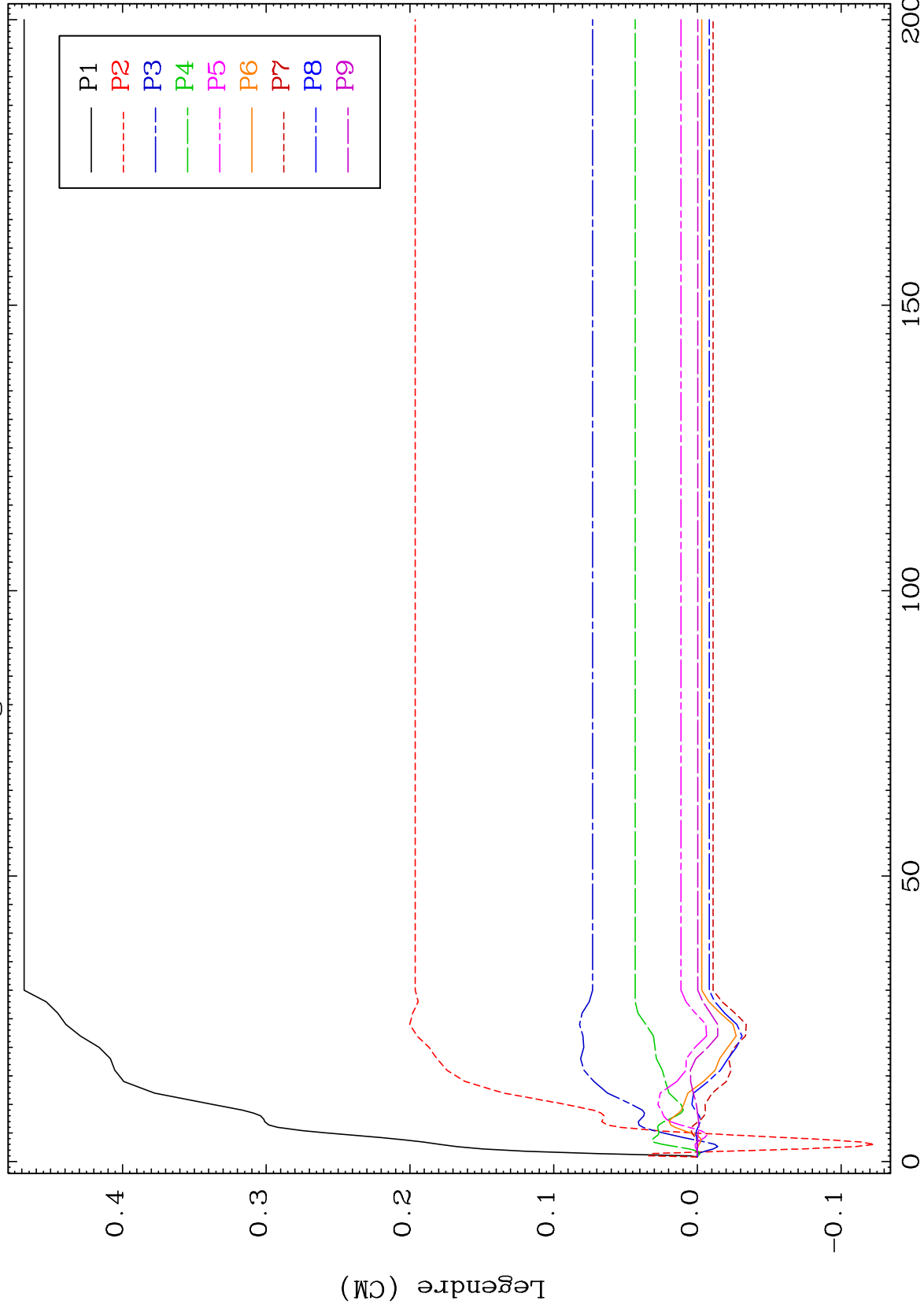
57

64-Gd-137

MAT 6380

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

64-Gd-137



64-Gd-137

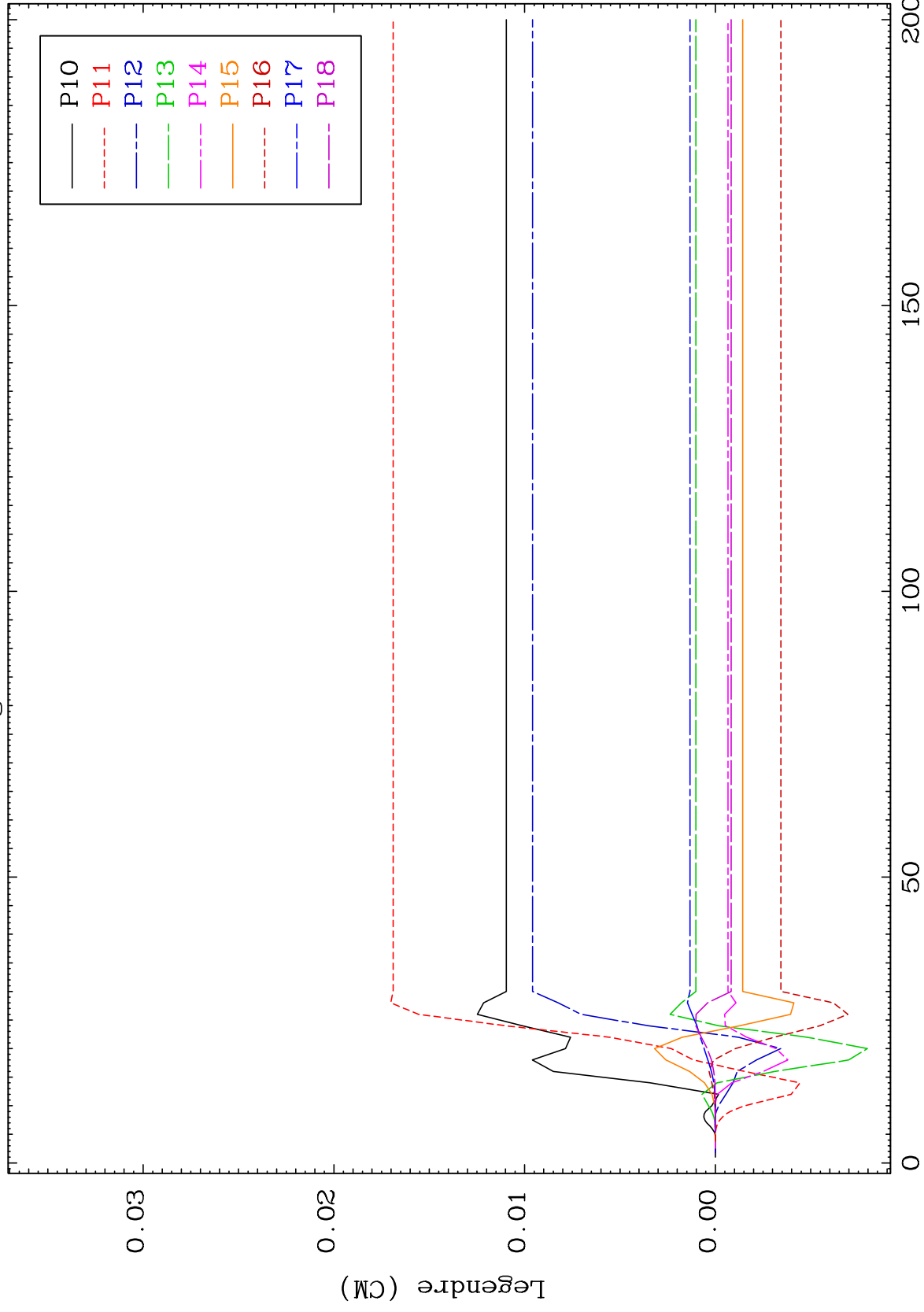
Incident Energy (MeV)

58

MAT 6380

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

64-Gd-137



59

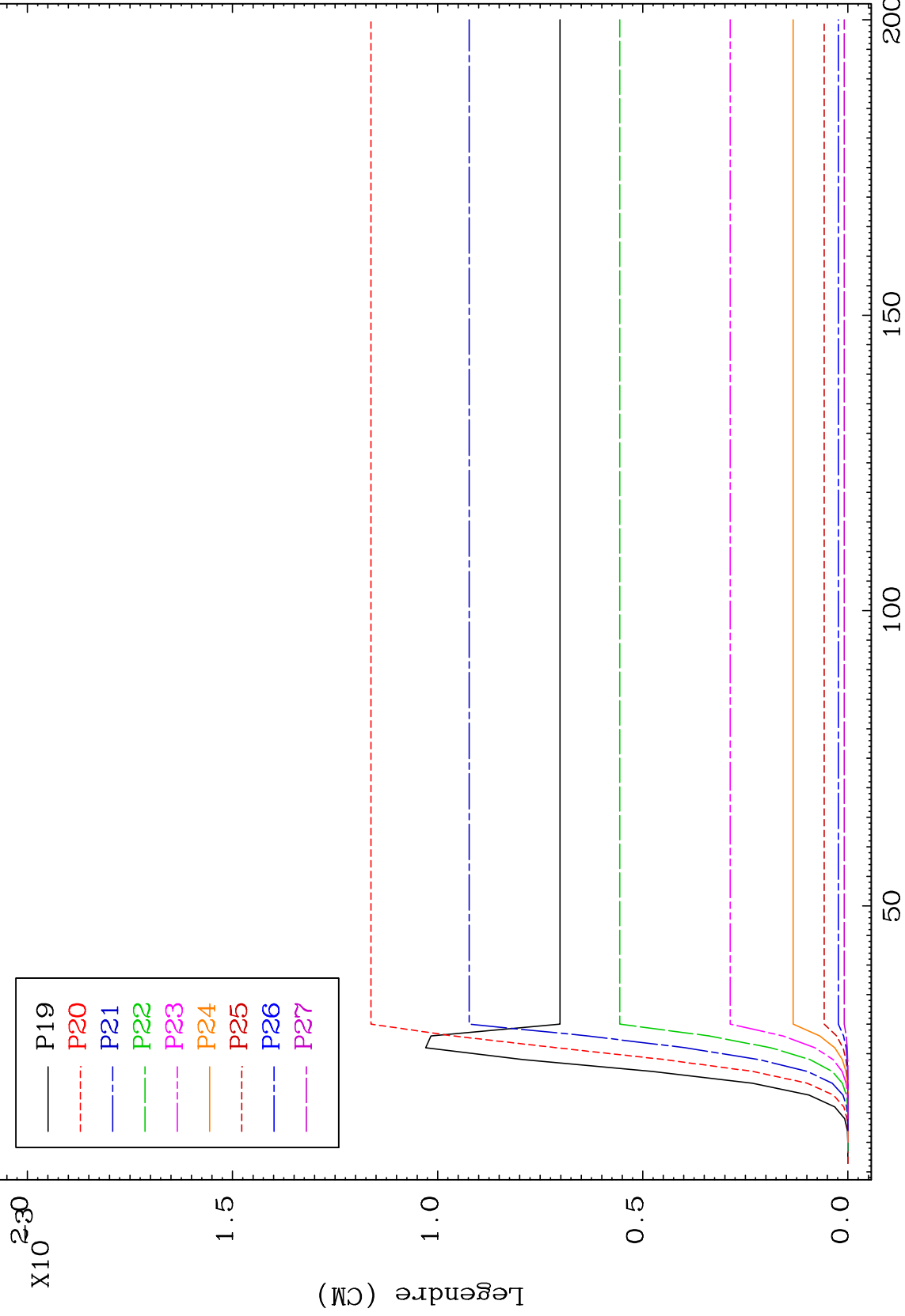
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



60

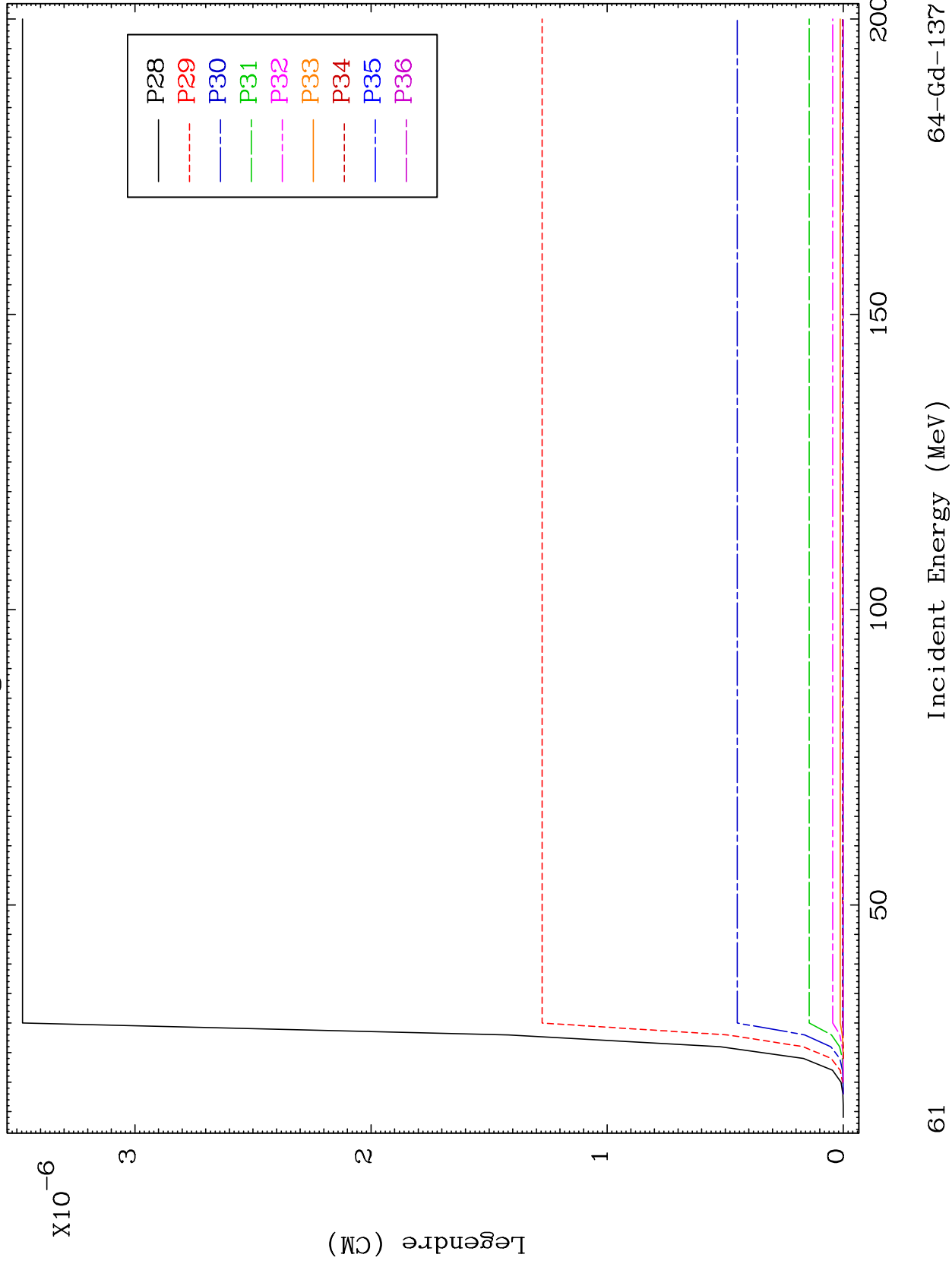
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



61

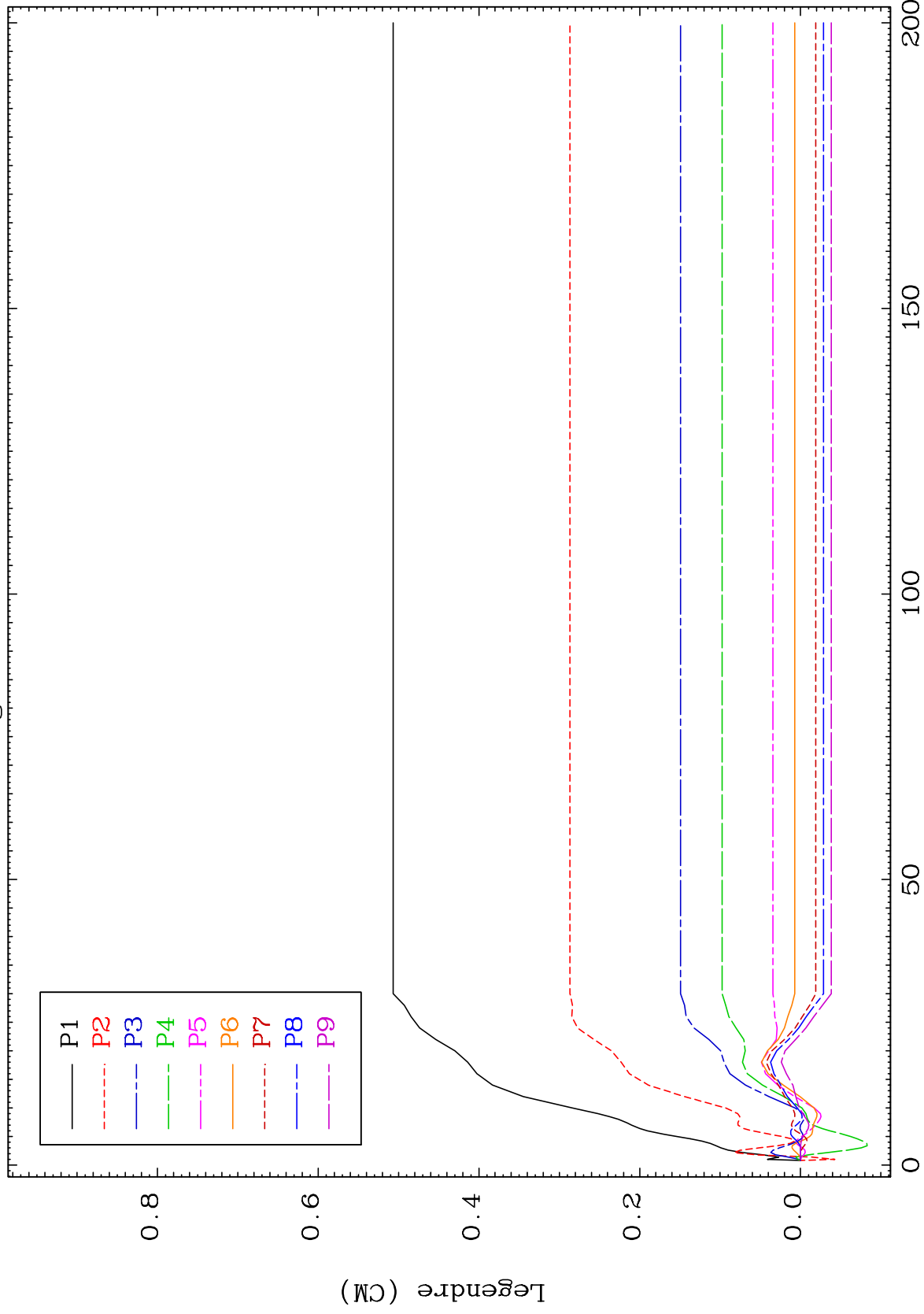
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



62

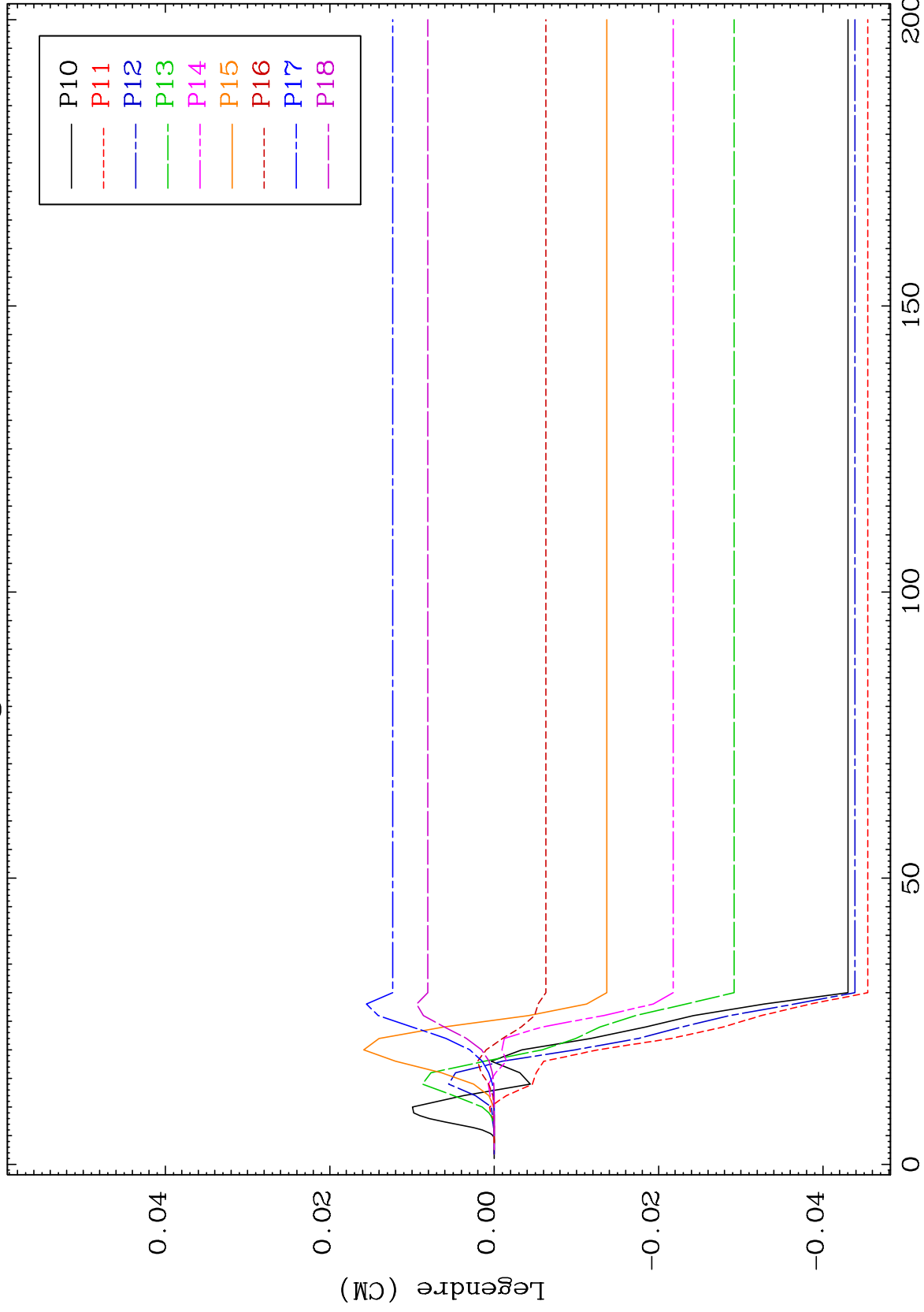
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



63

Incident Energy (MeV)

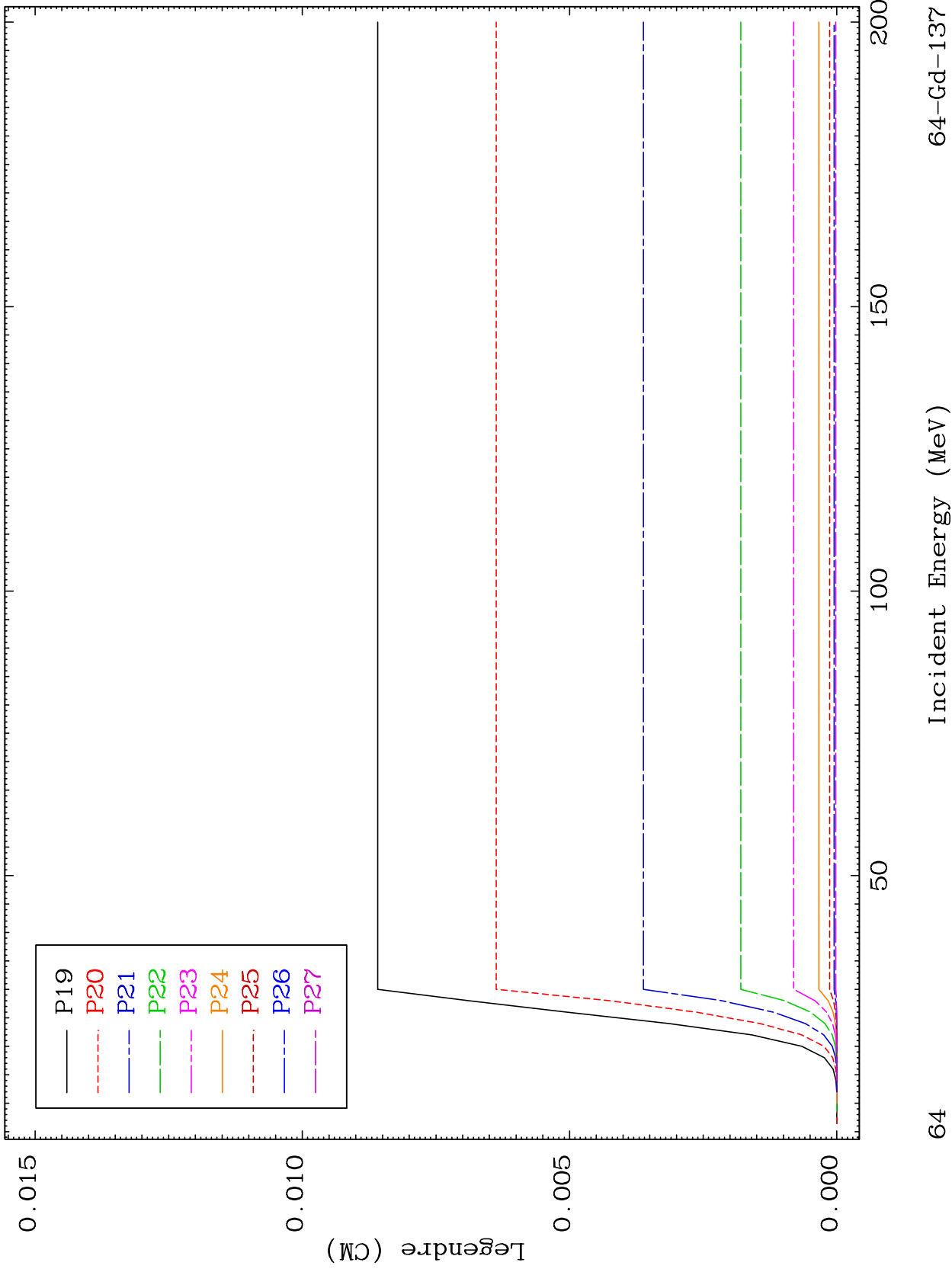
64-Gd-137



MAT 6380

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

64-Gd-137



64

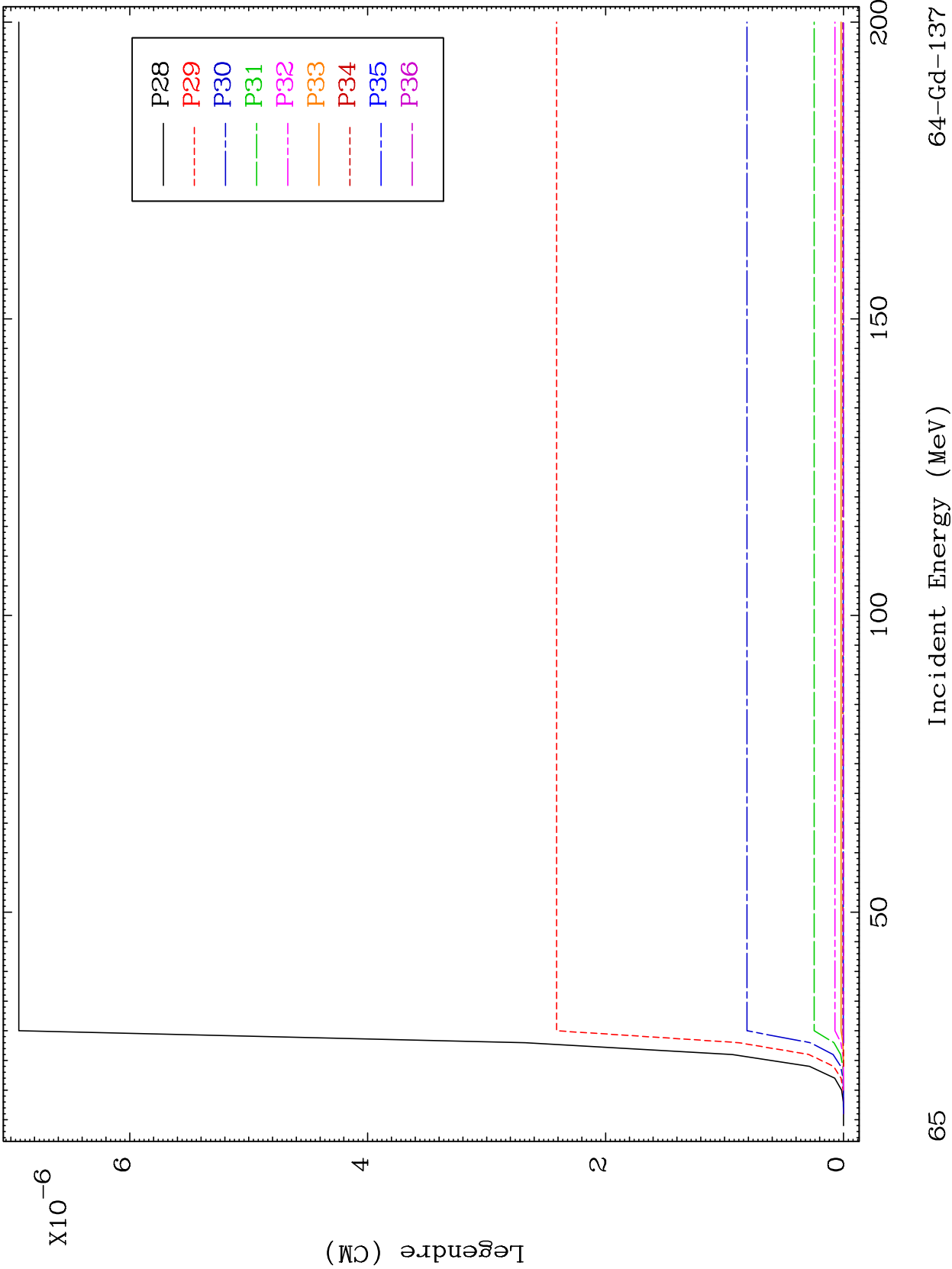
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



65

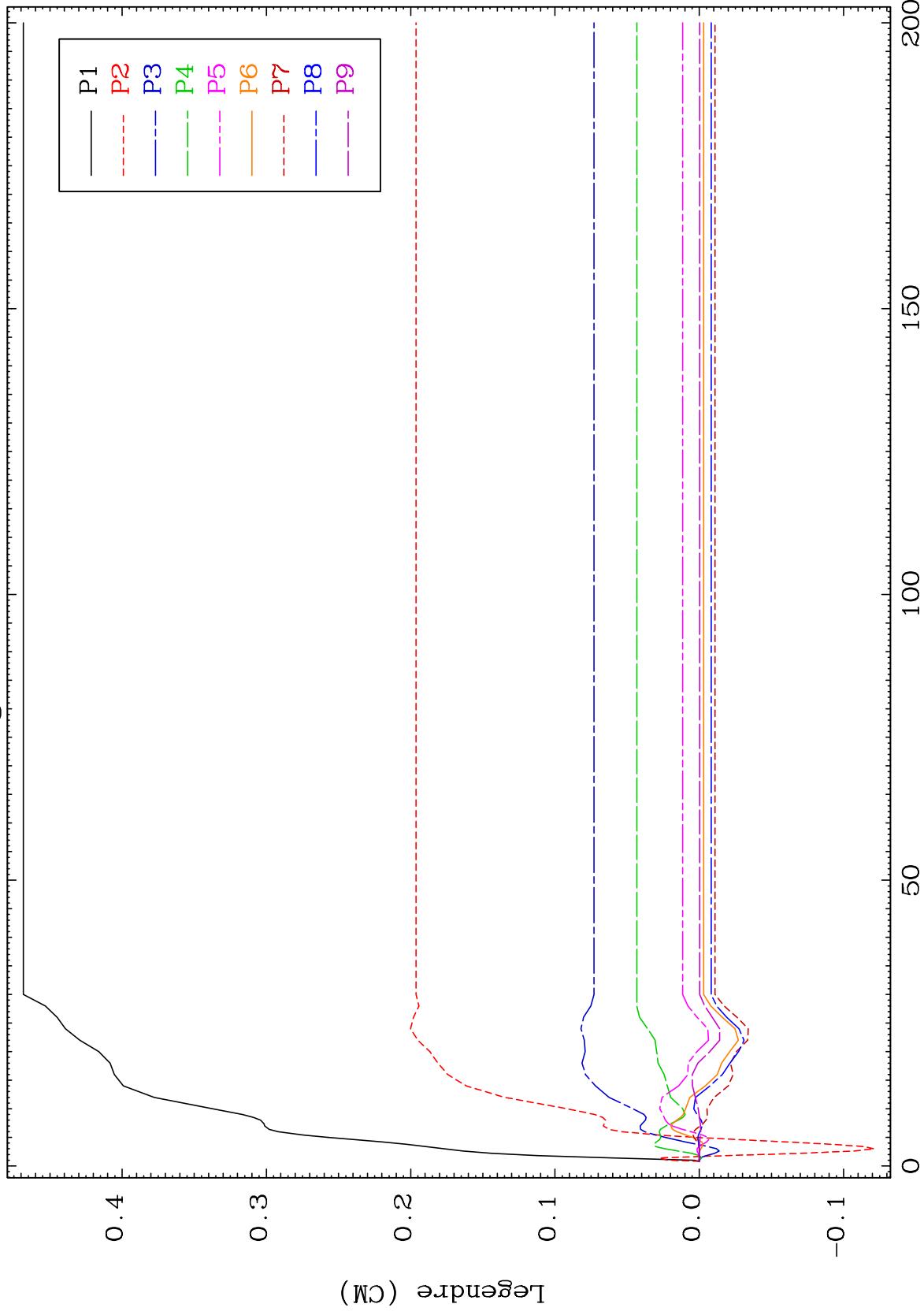
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



66

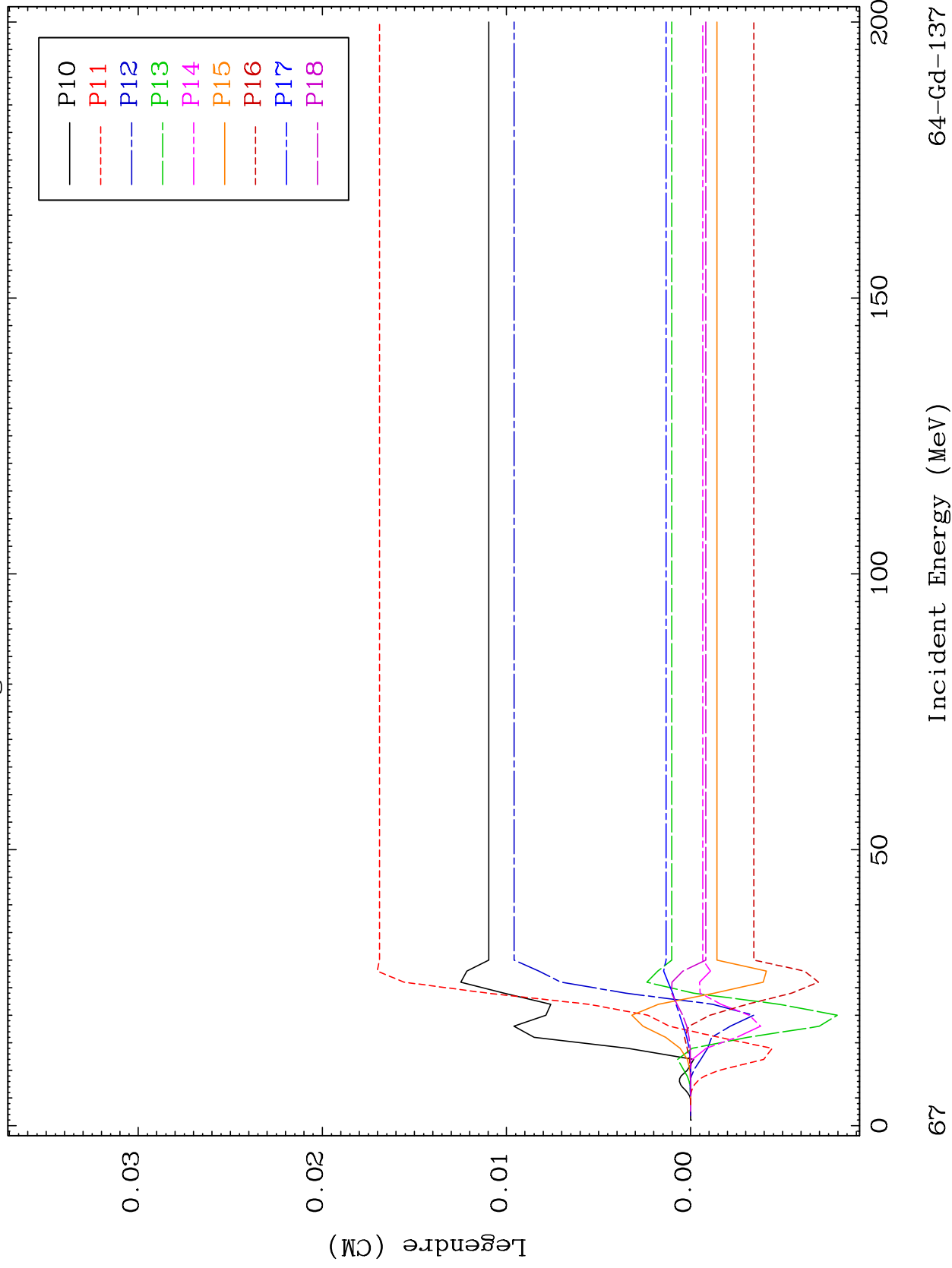
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



64-Gd-137

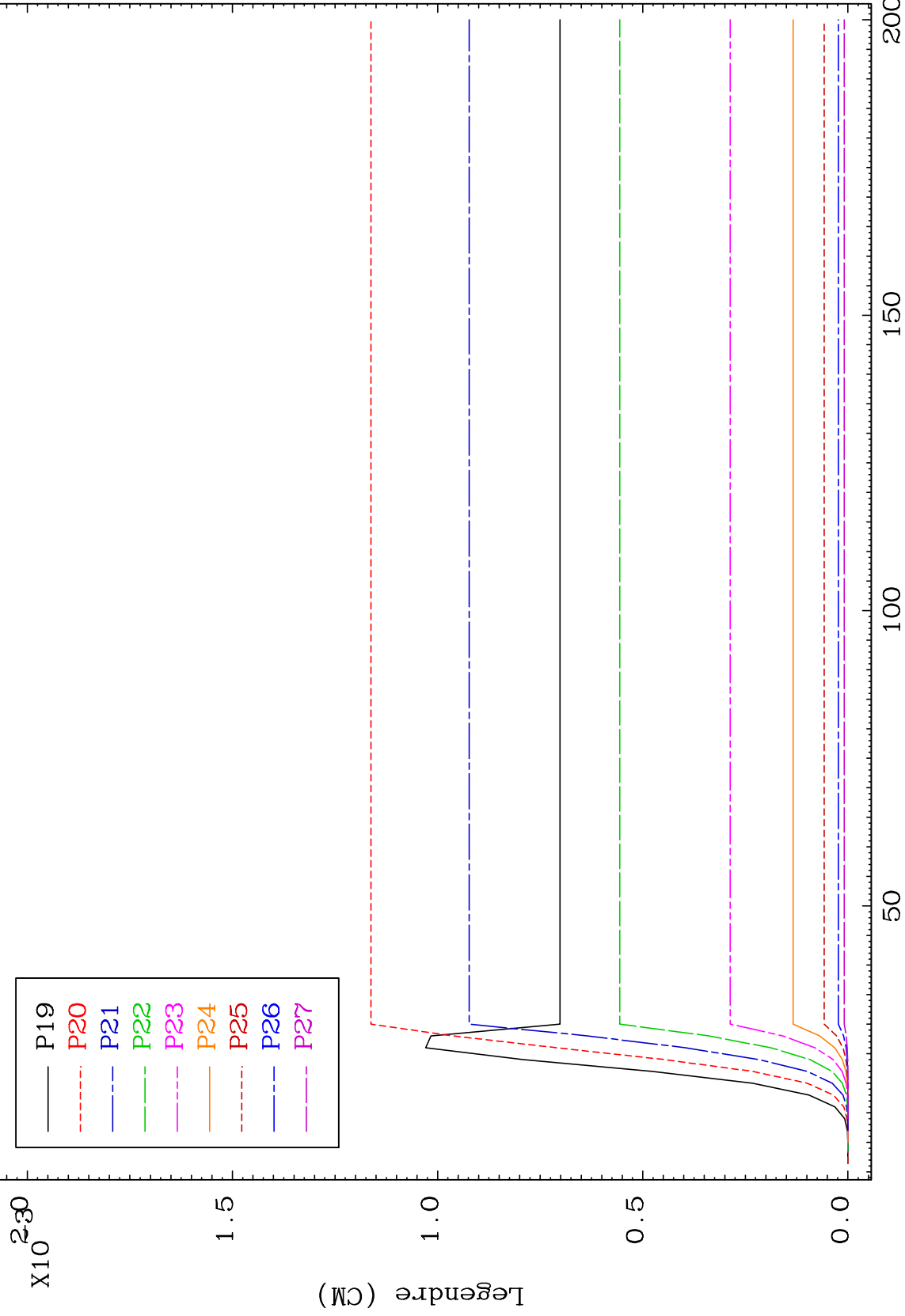
Incident Energy (MeV)

67

MAT 6380

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

64-Gd-137



68

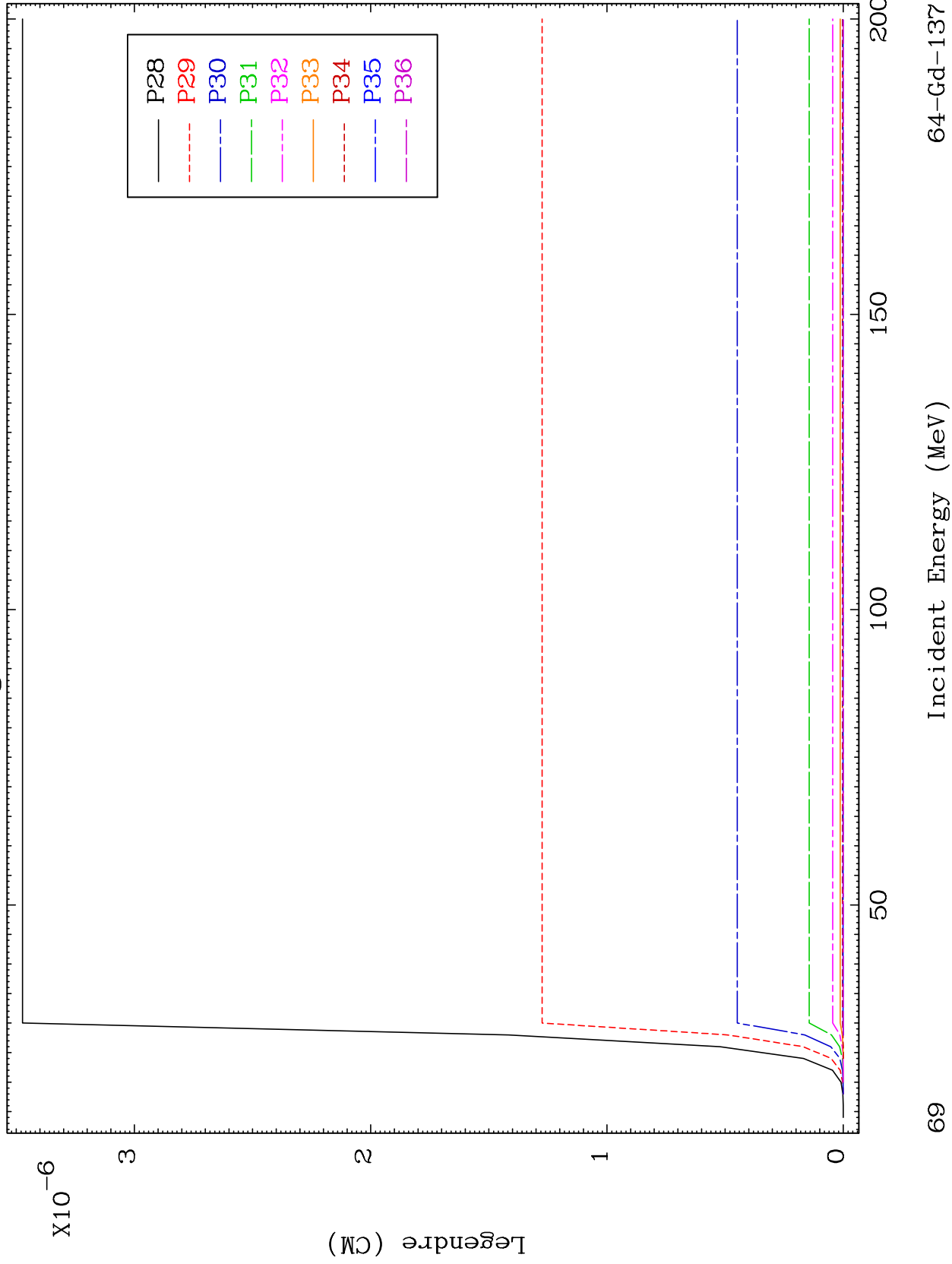
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

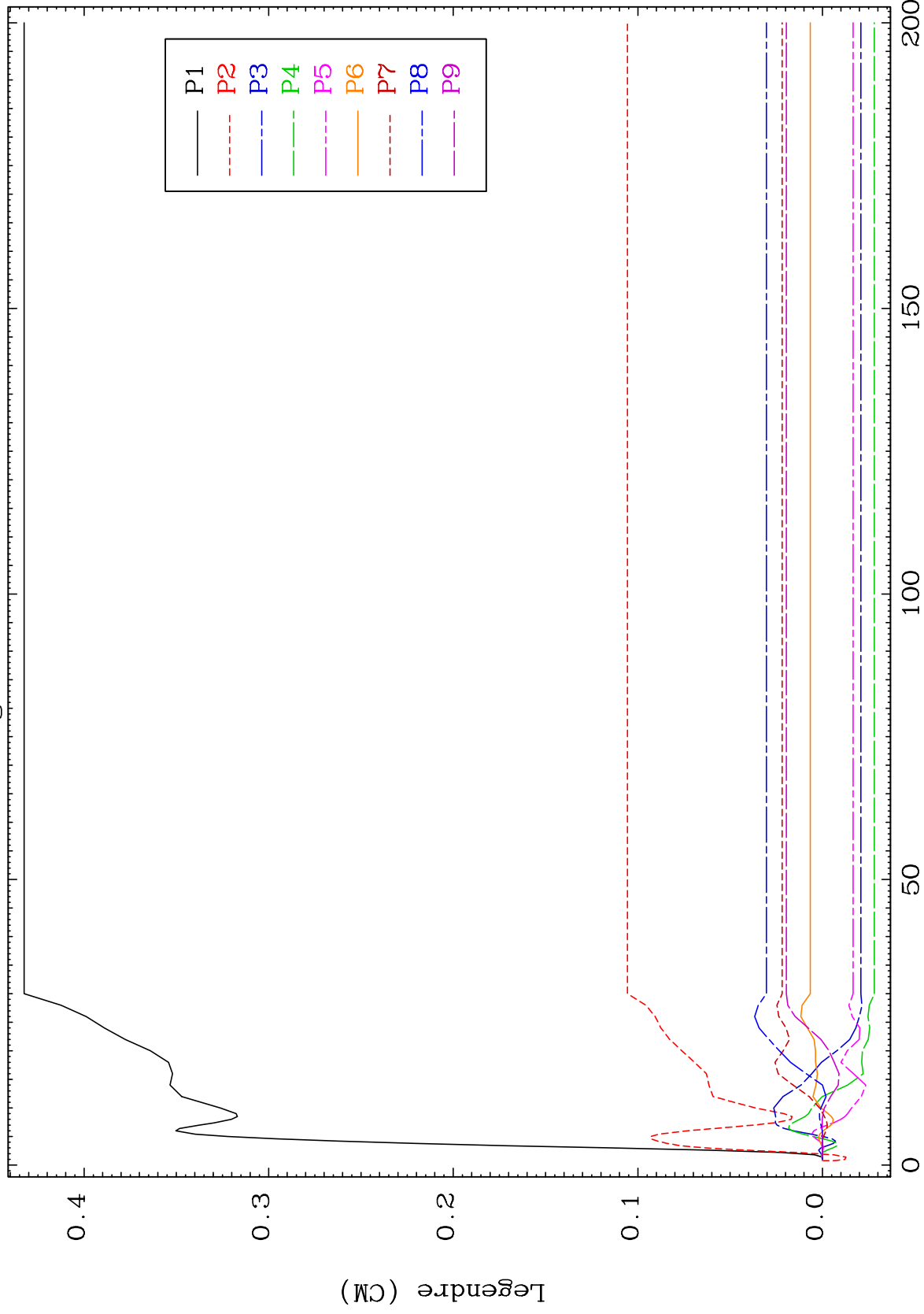
64-Gd-137



MAT 6380

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

64-Gd-137



70

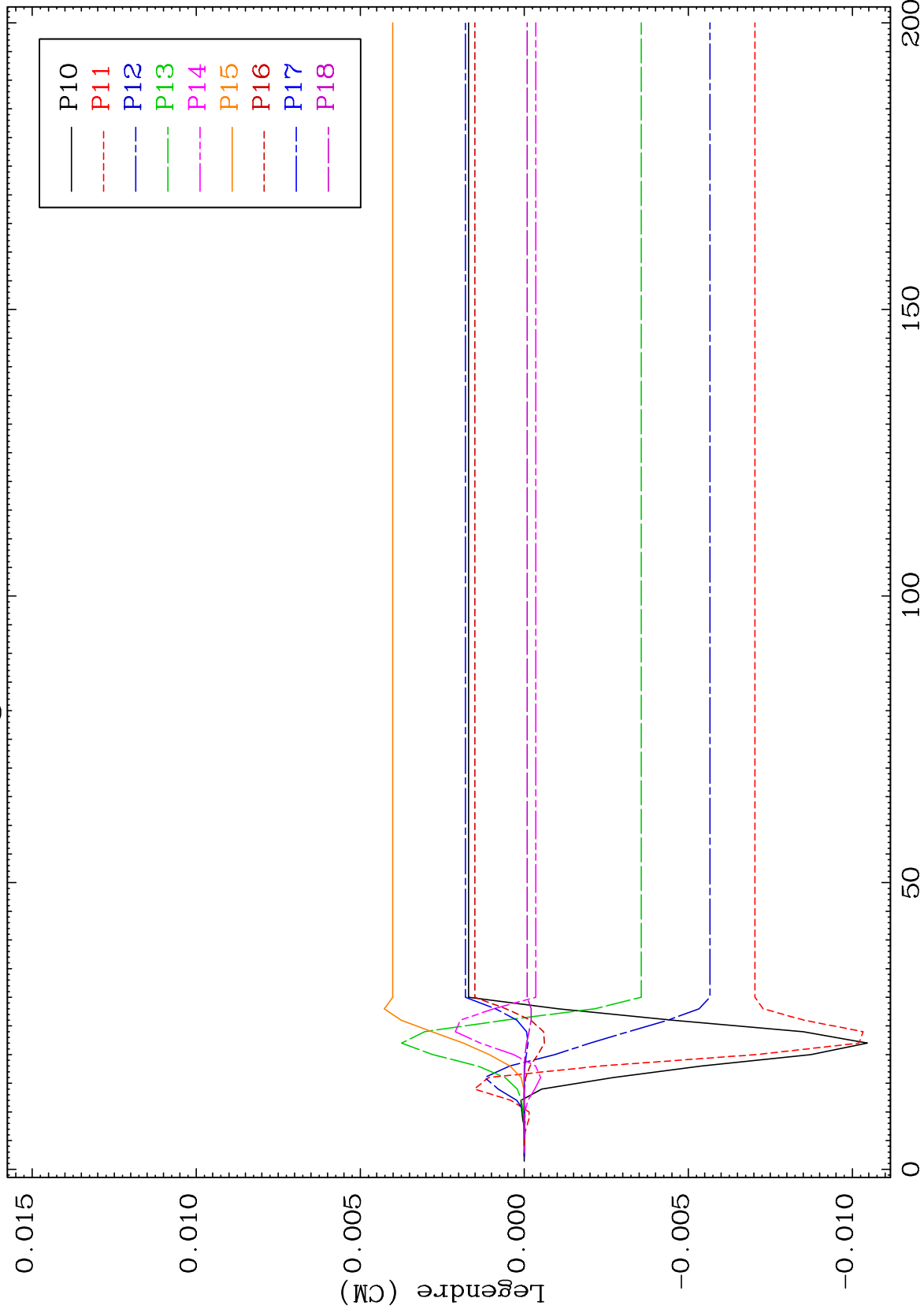
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137

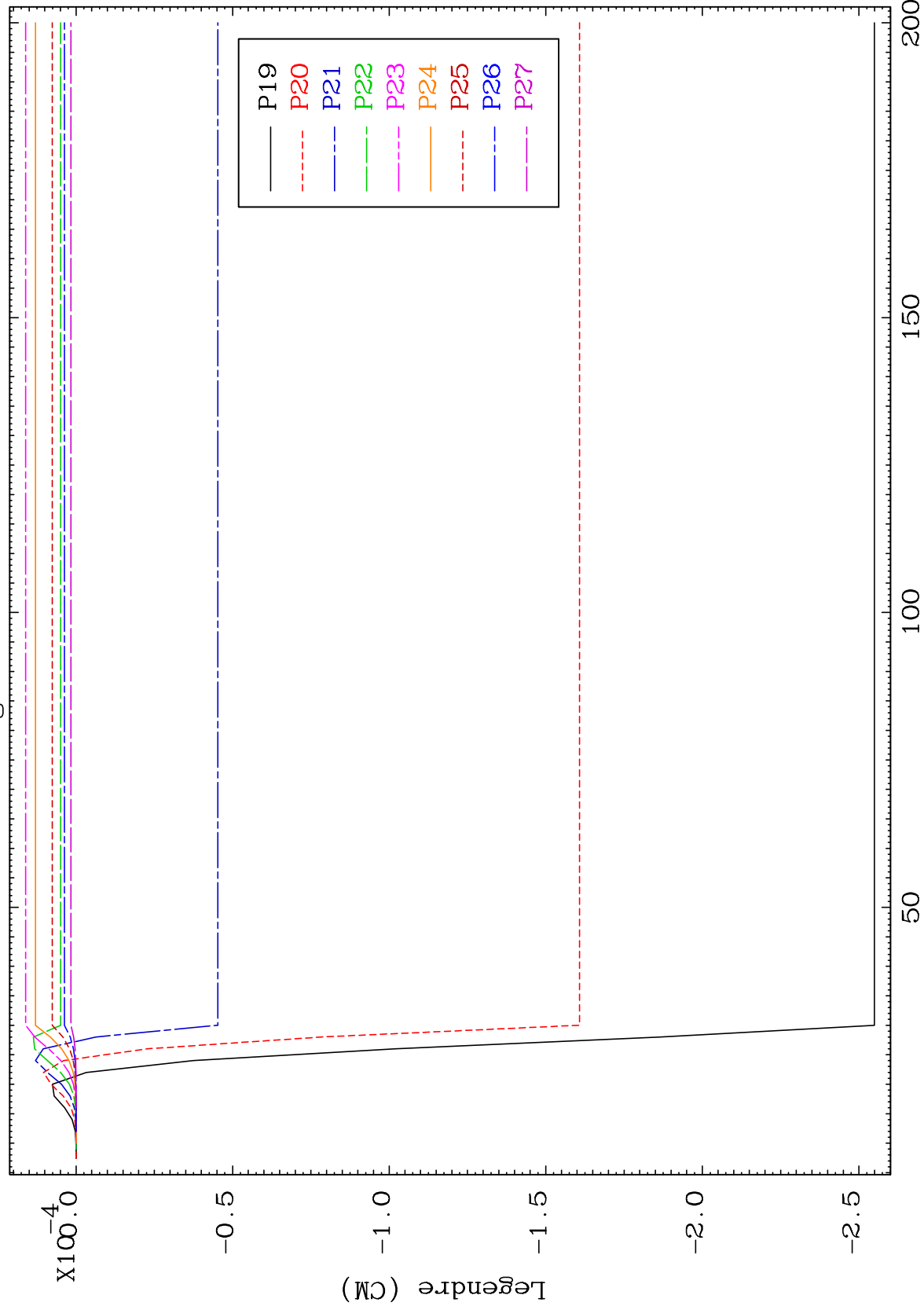


71

Incident Energy (MeV)

64-Gd-137

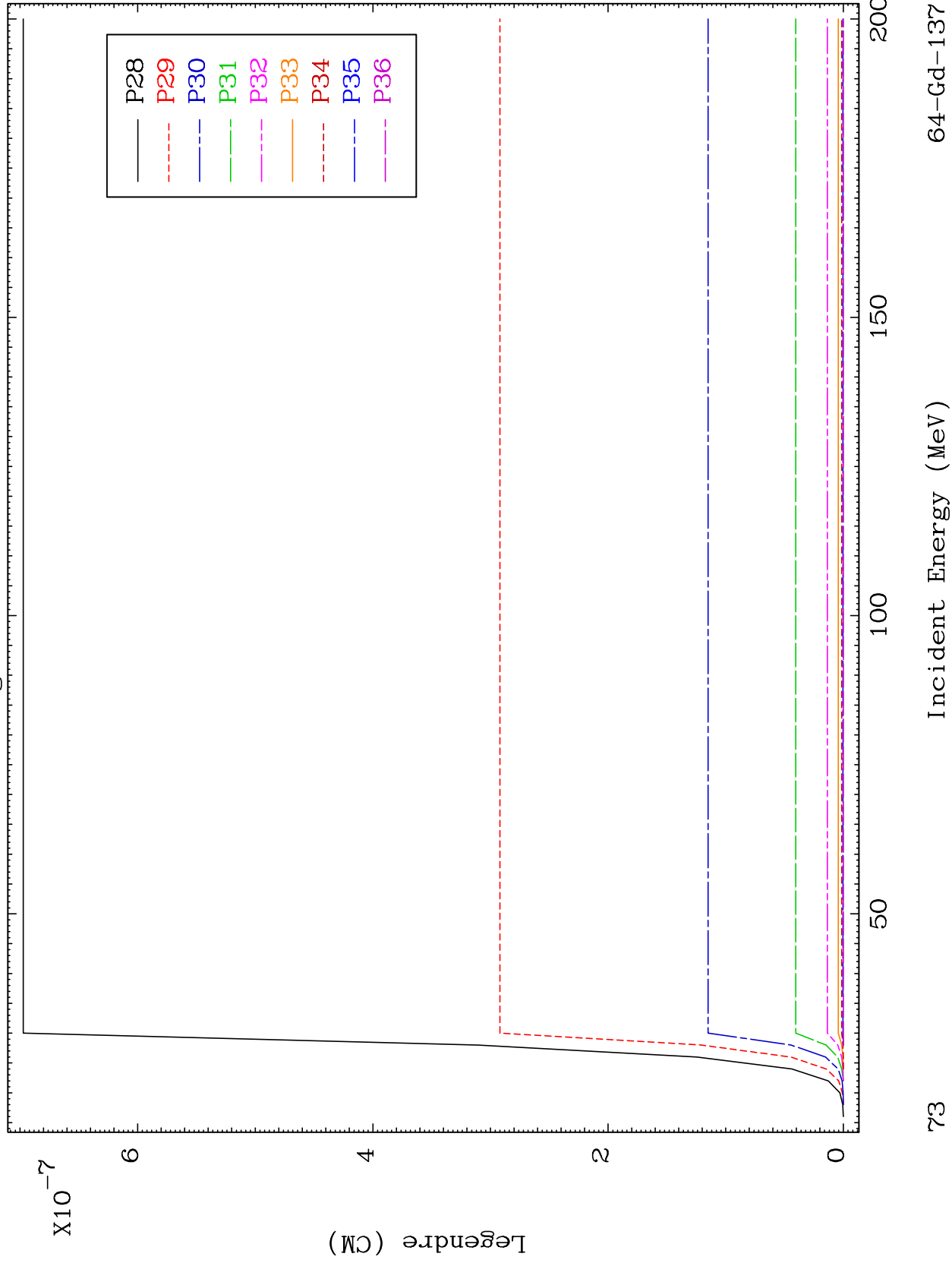




MAT 6380

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

64-Gd-137



73

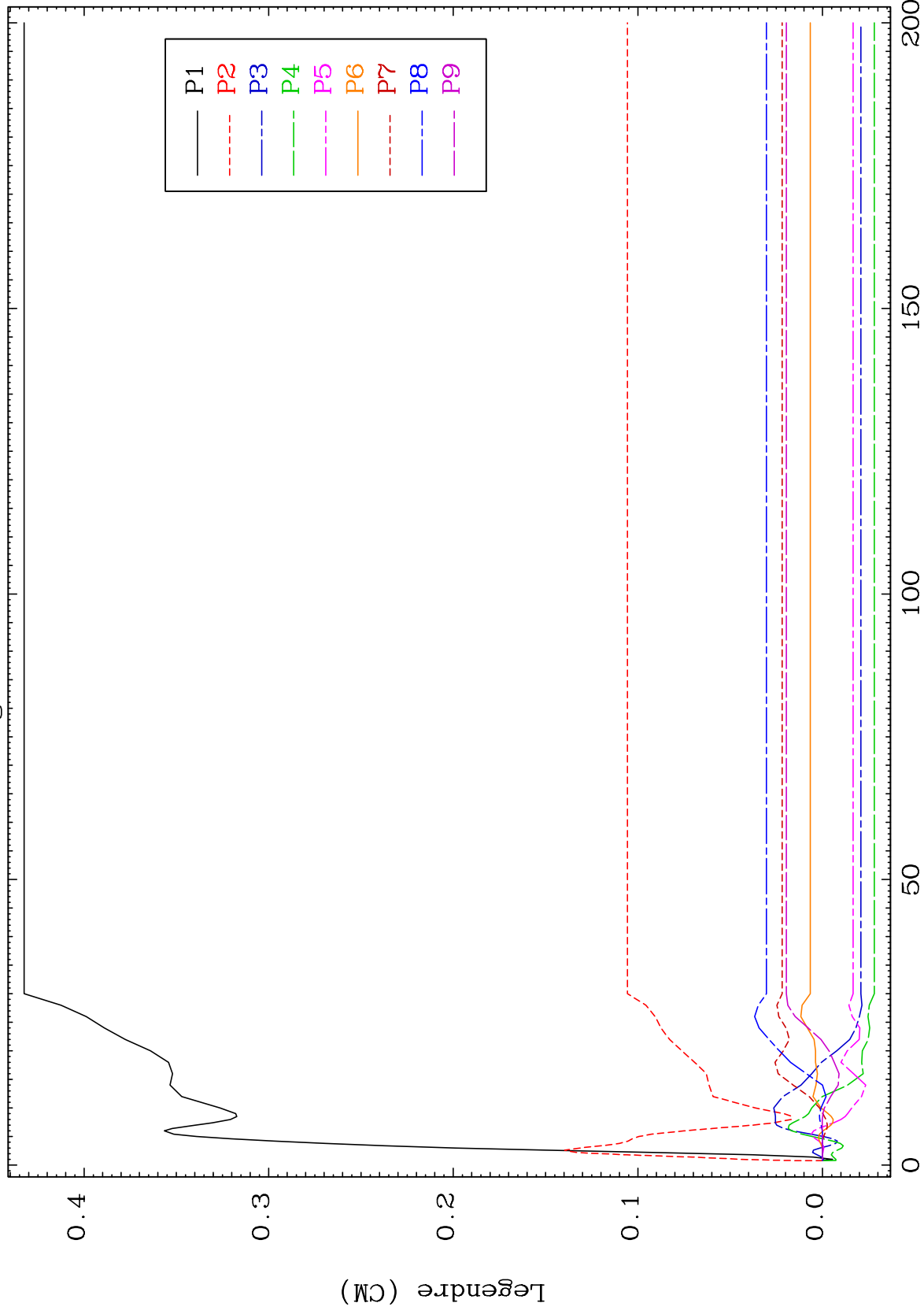
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



74

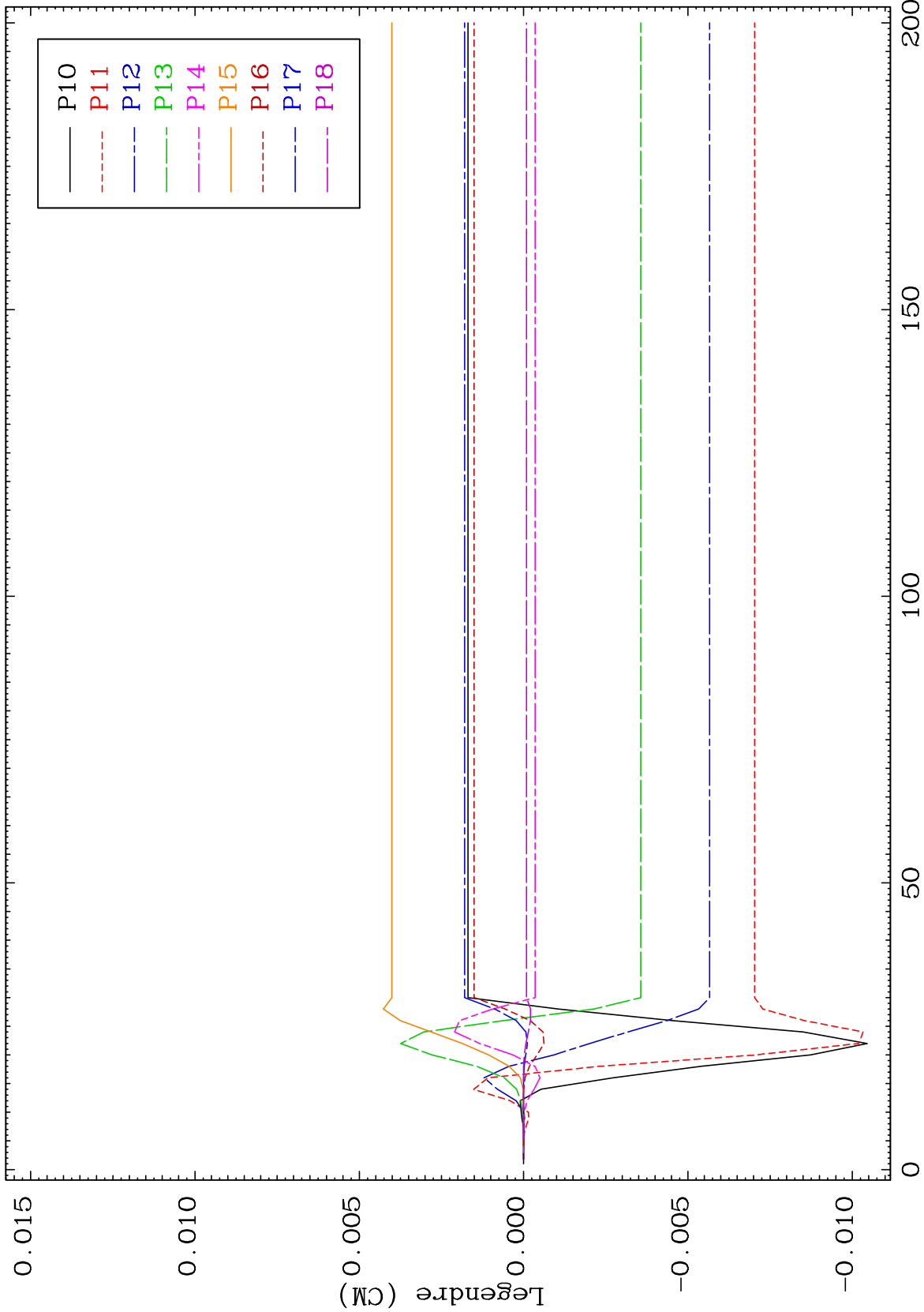
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



75

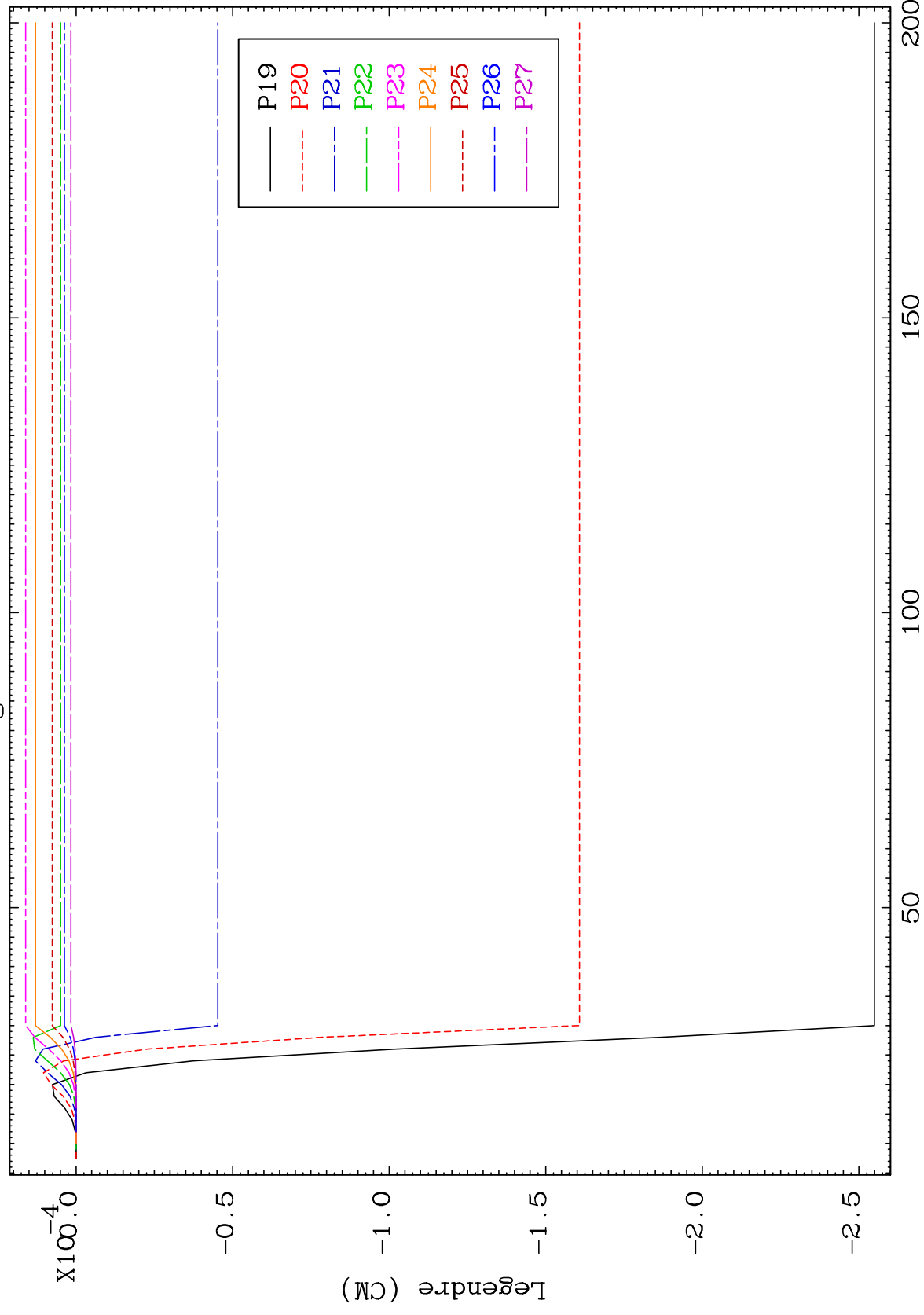
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



76

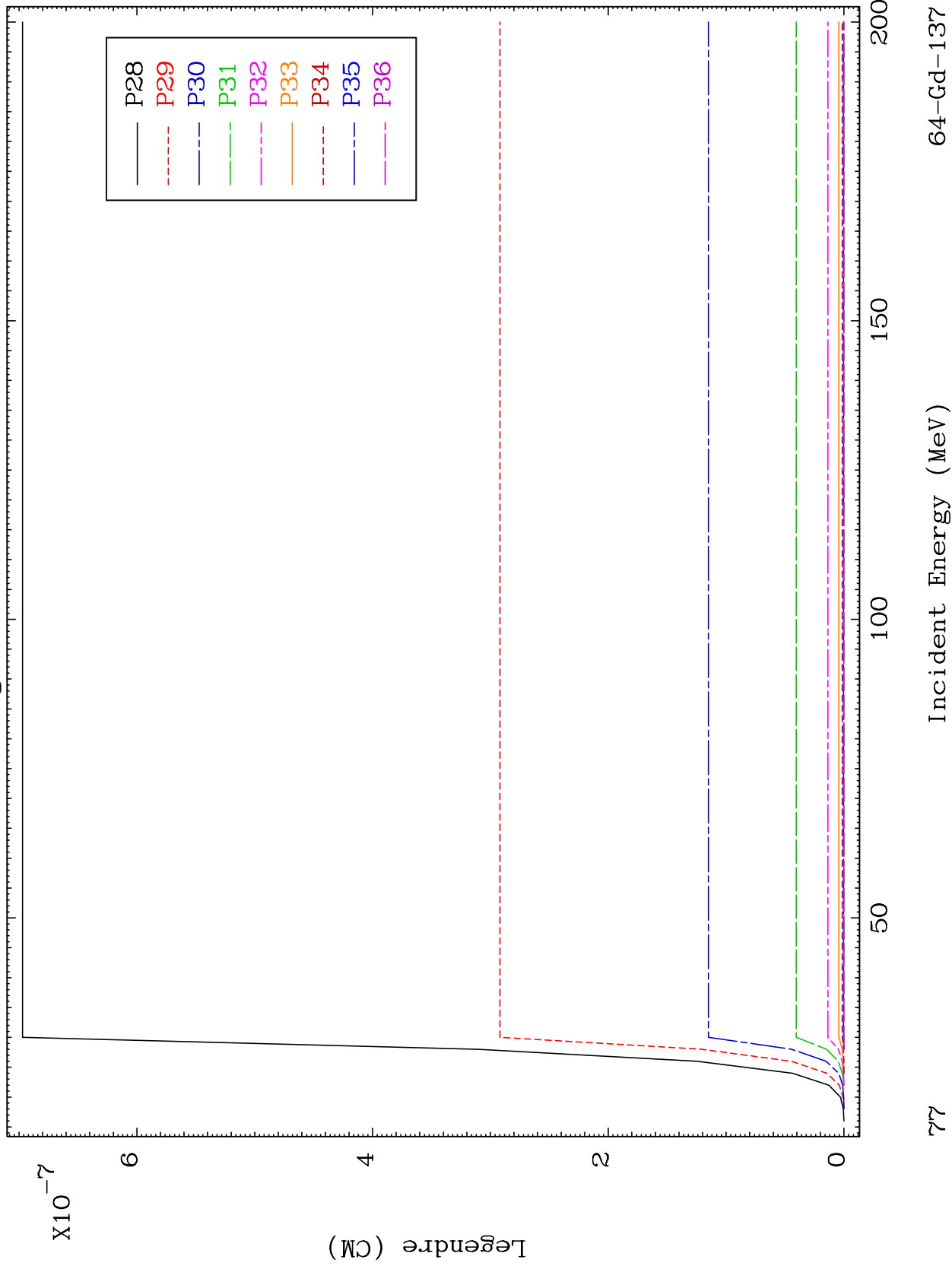
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

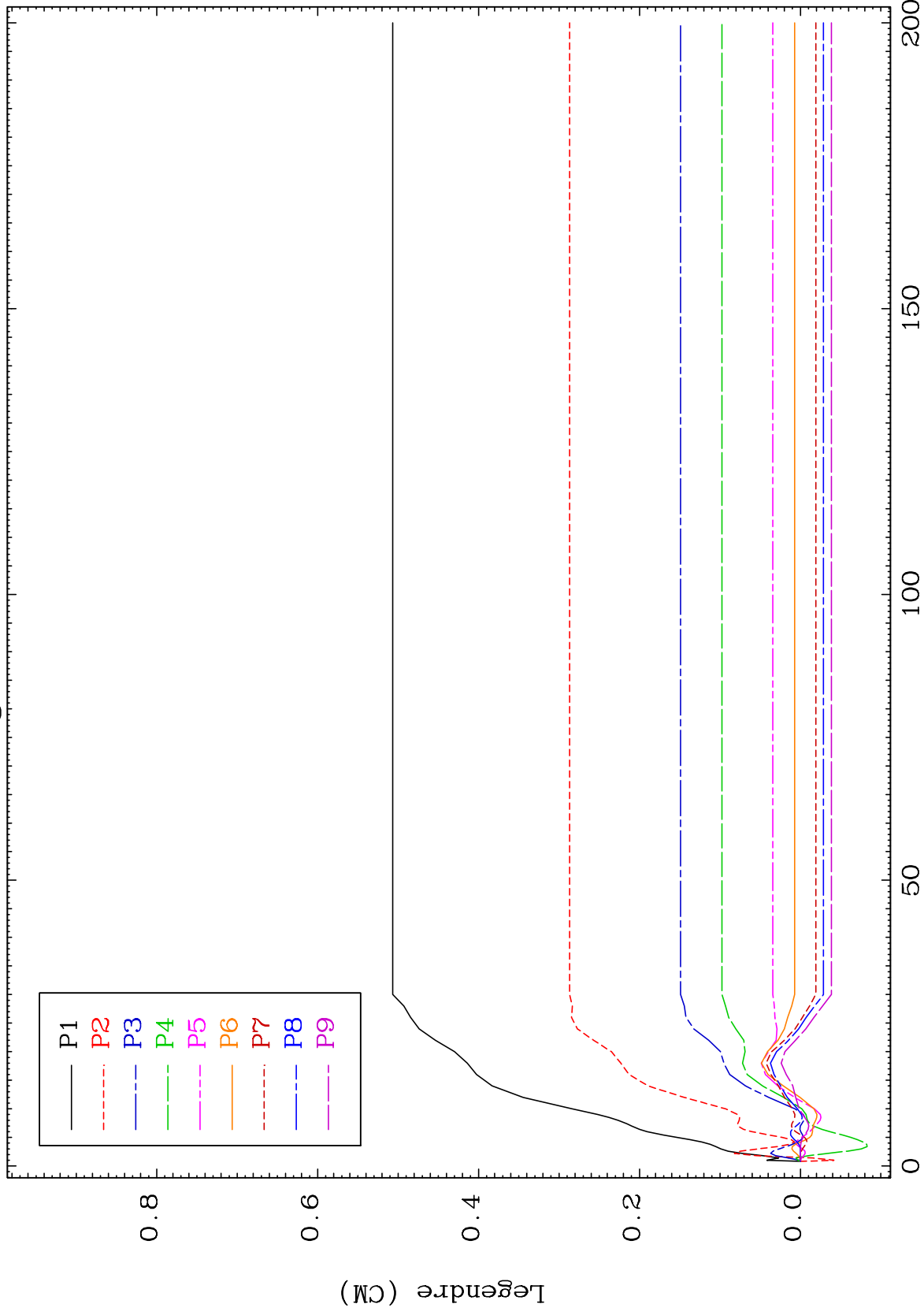
64-Gd-137



MAT 6380

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

64-Gd-137



78

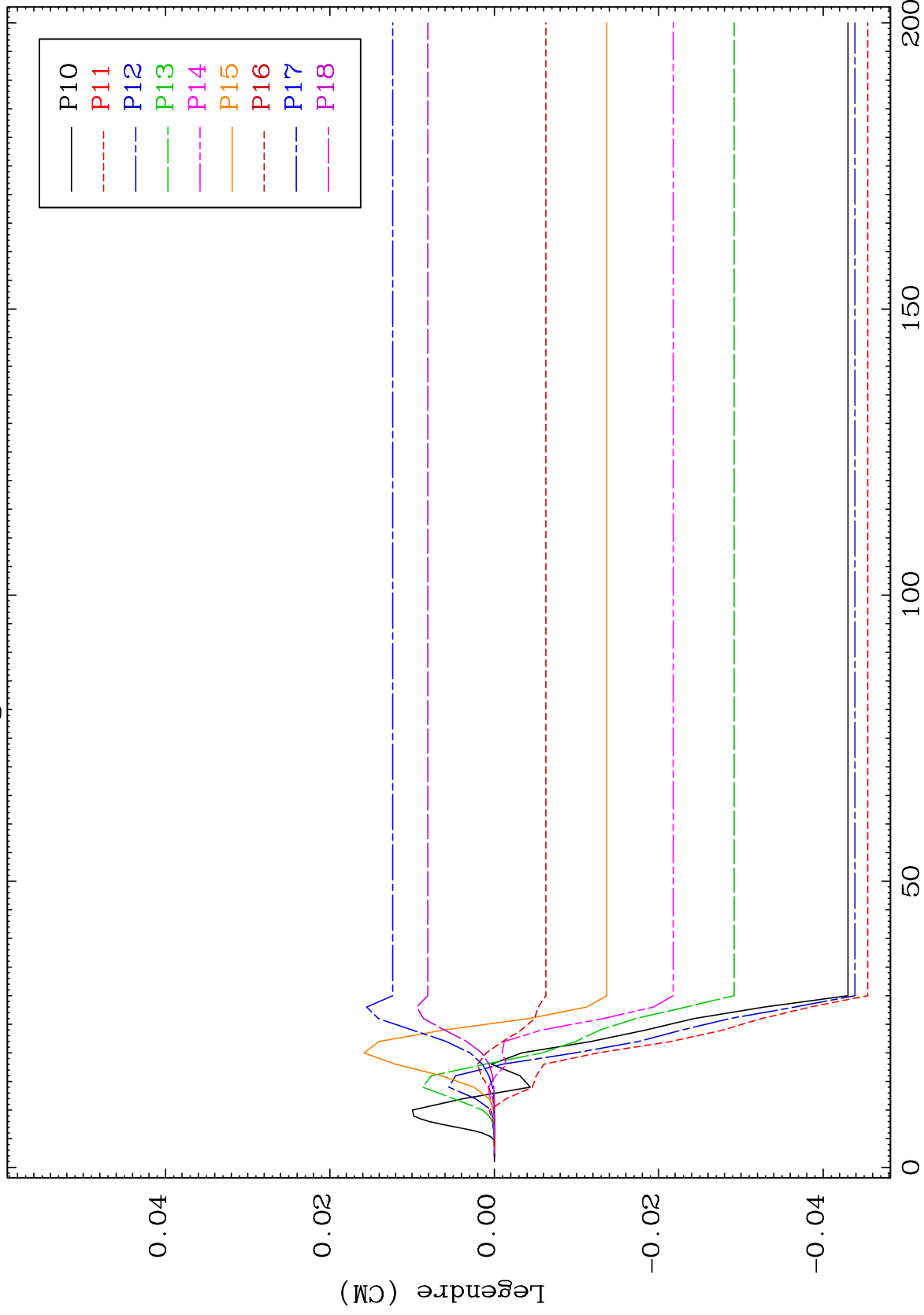
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



79

Incident Energy (MeV)

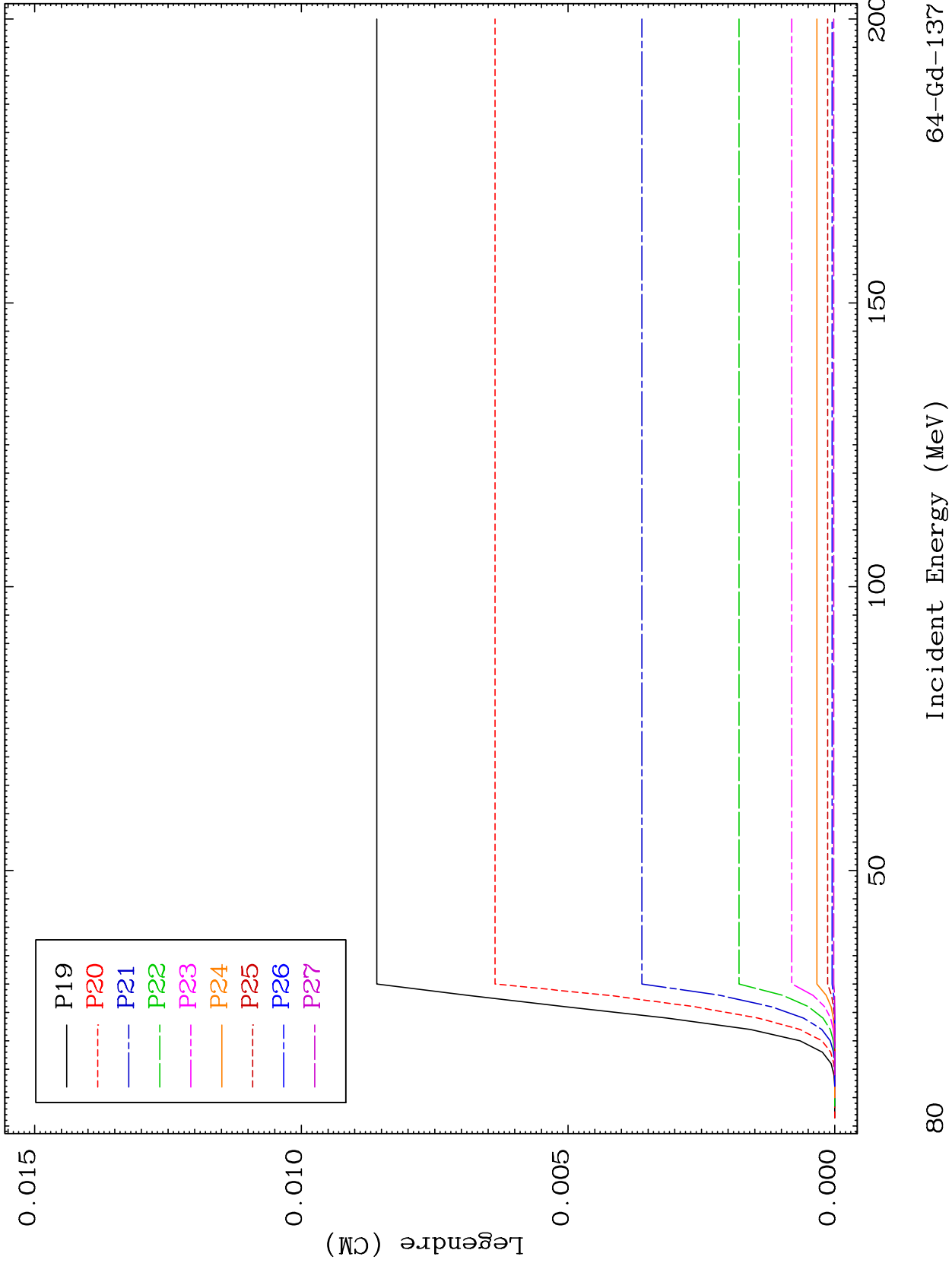
64-Gd-137



MAT 6380

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

64-Gd-137



64-Gd-137

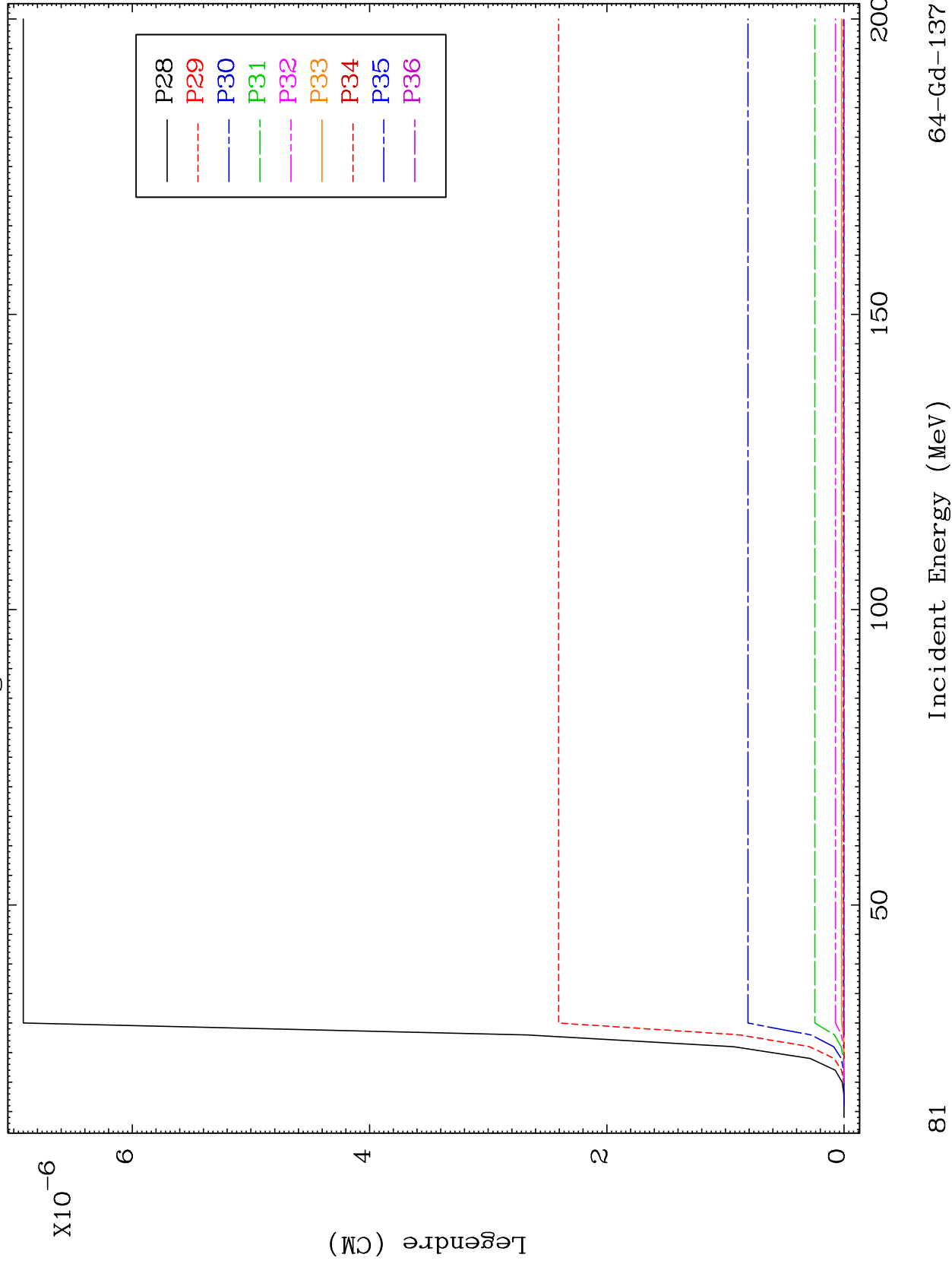
Incident Energy (MeV)

80

MAT 6380

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

64-Gd-137



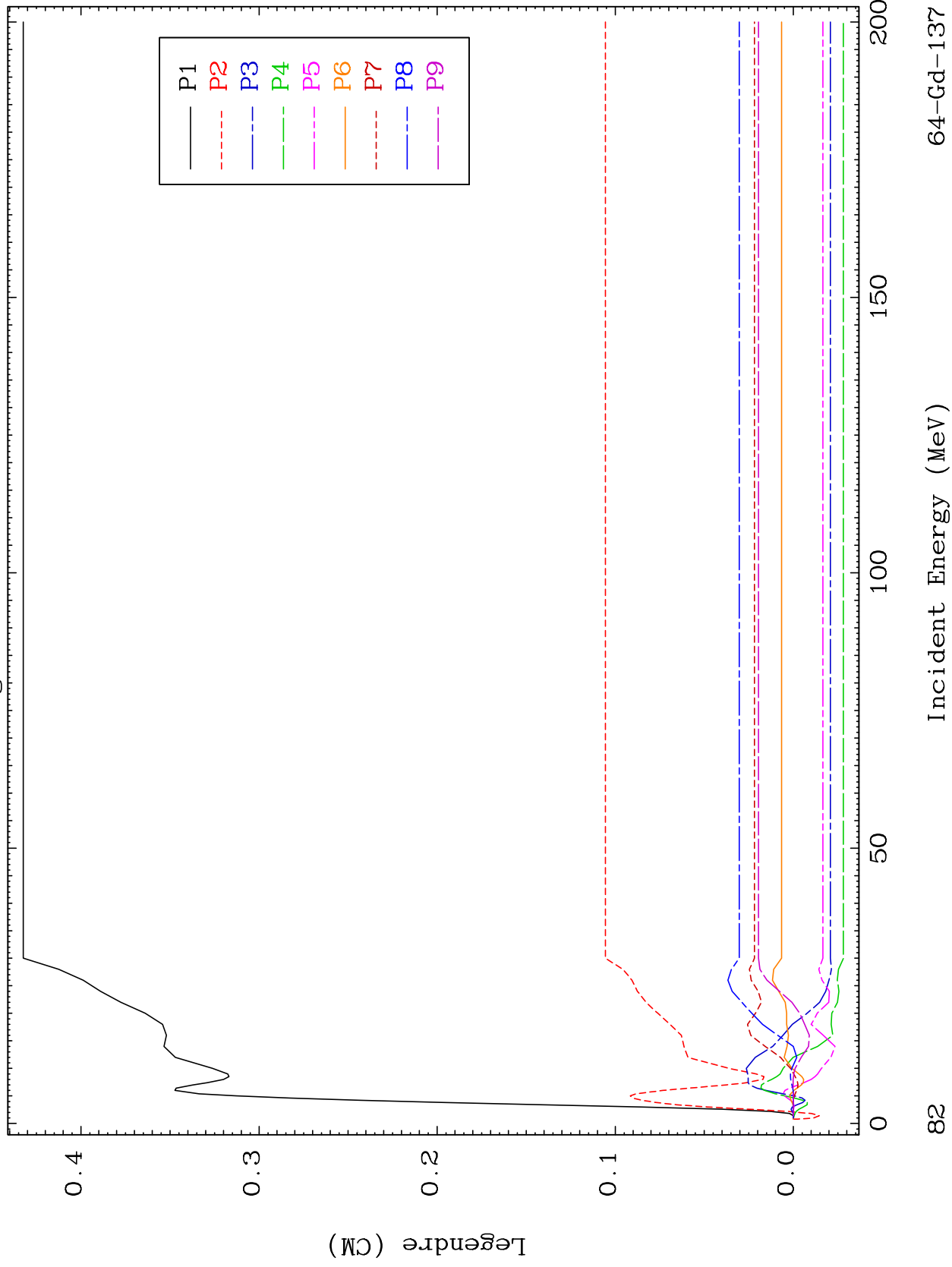
81

64-Gd-137

MAT 6380

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

64-Gd-137



82

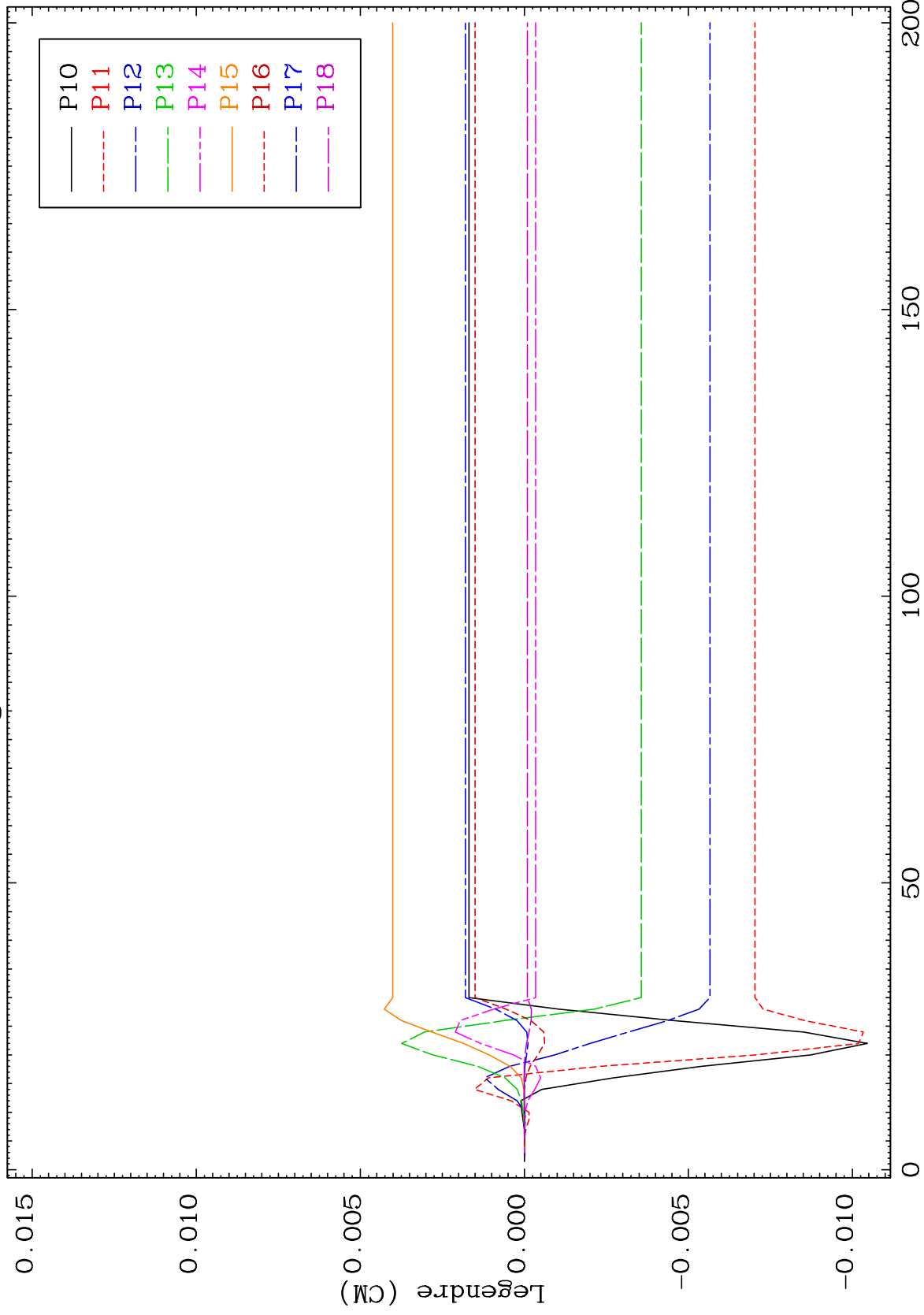
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

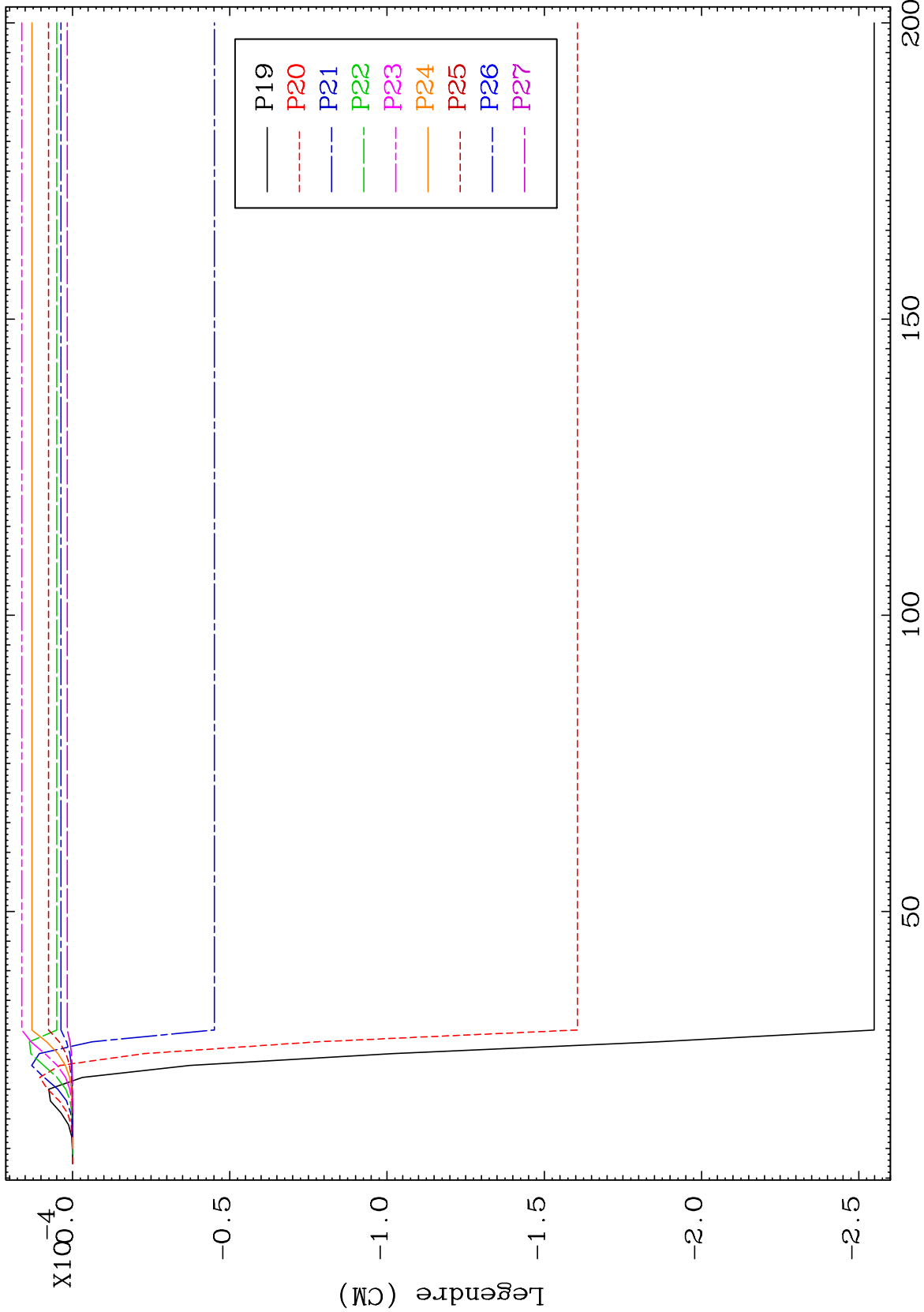
64-Gd-137



83

Incident Energy (MeV)

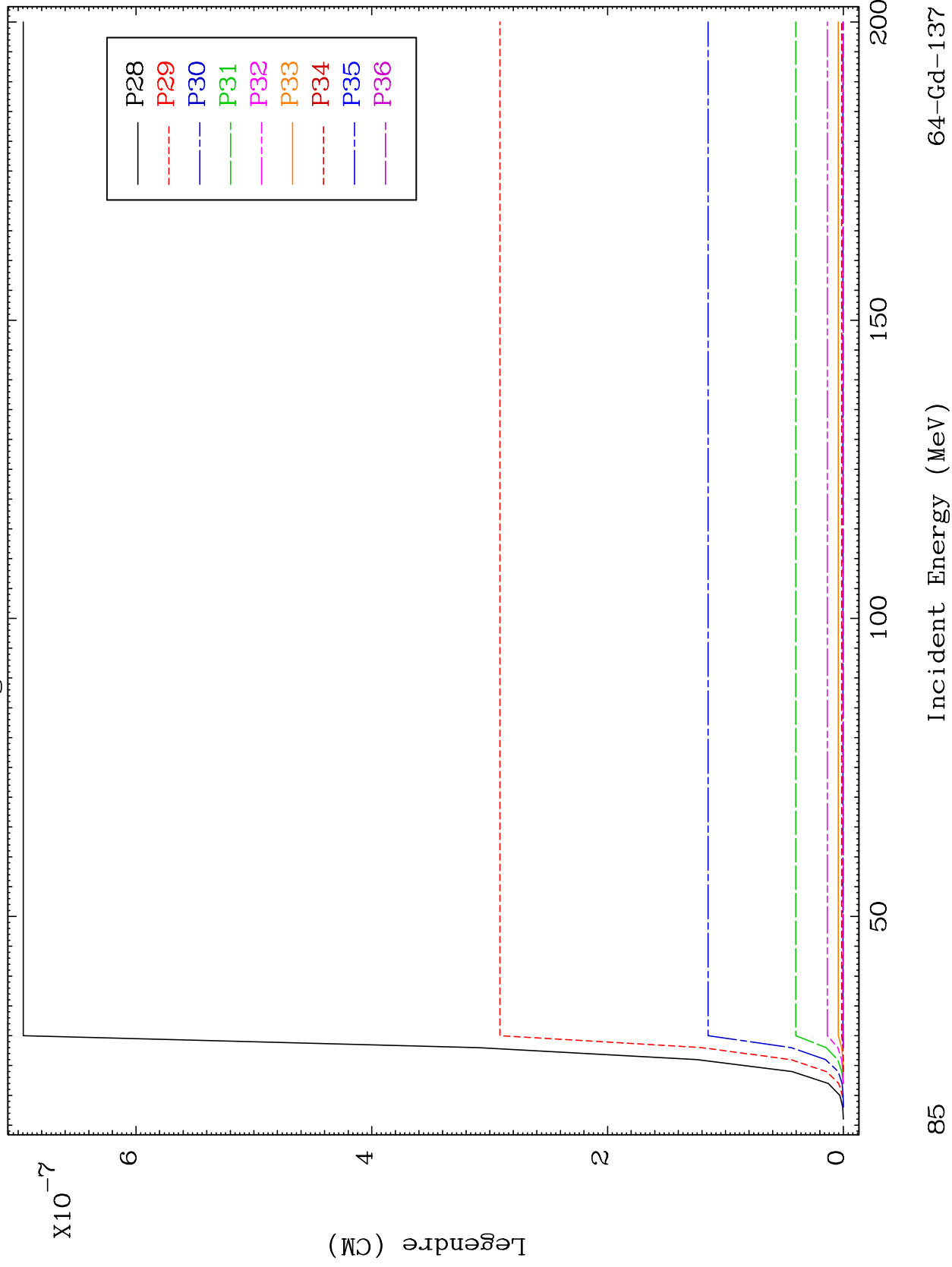
64-Gd-137



MAT 6380

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

64-Gd-137



64-Gd-137

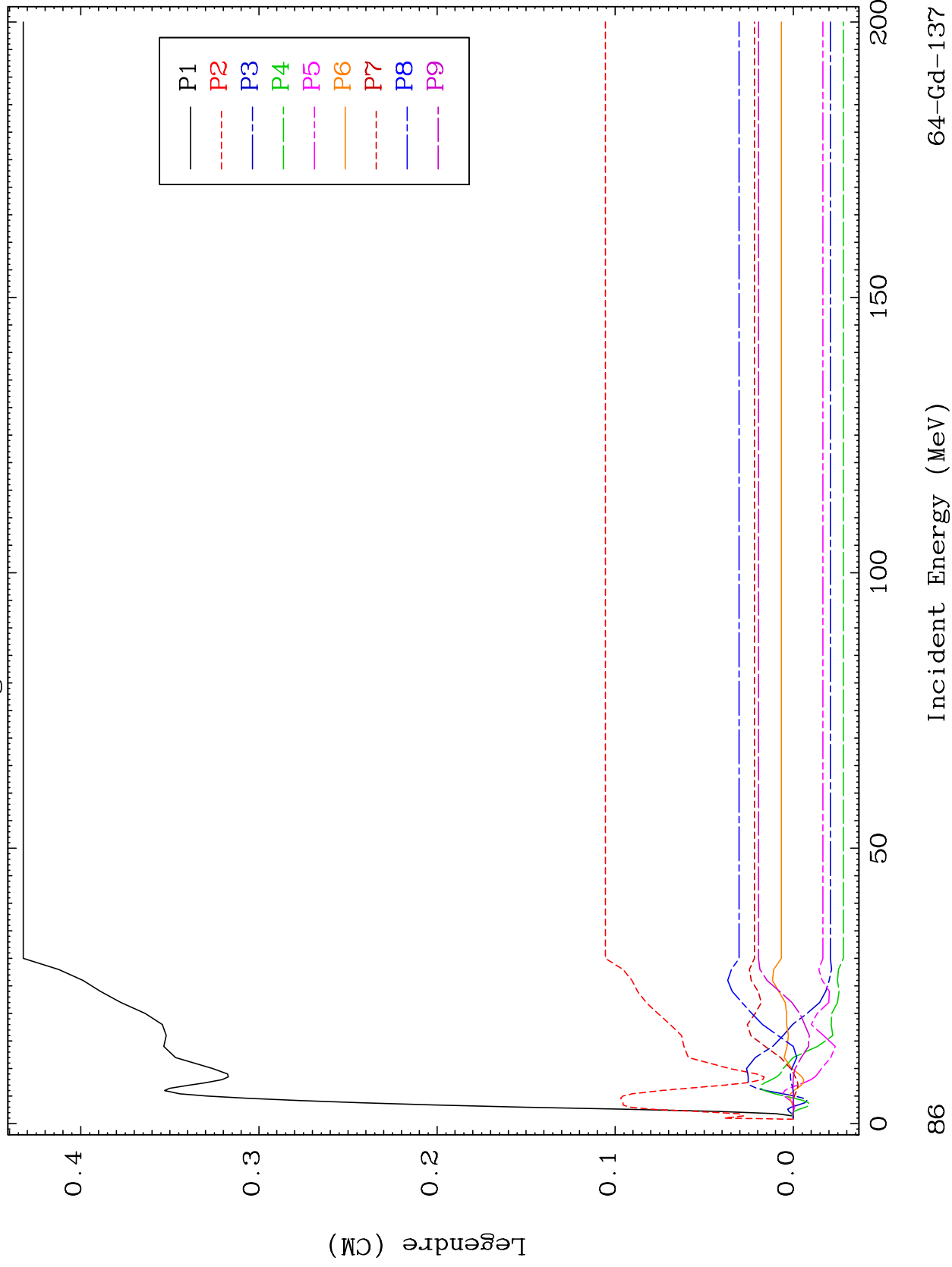
Incident Energy (MeV)

85

MAT 6380

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

64-Gd-137



86

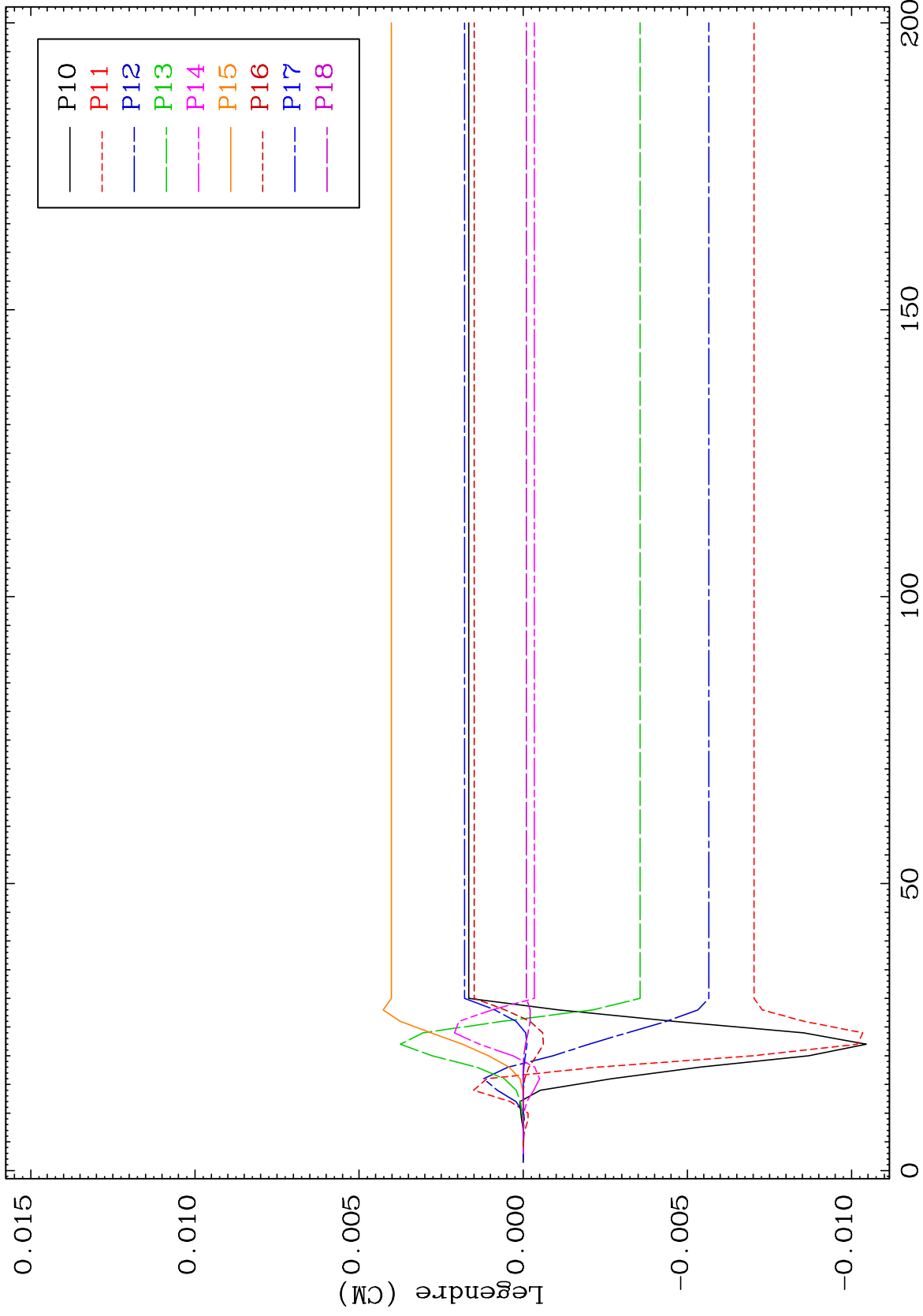
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137

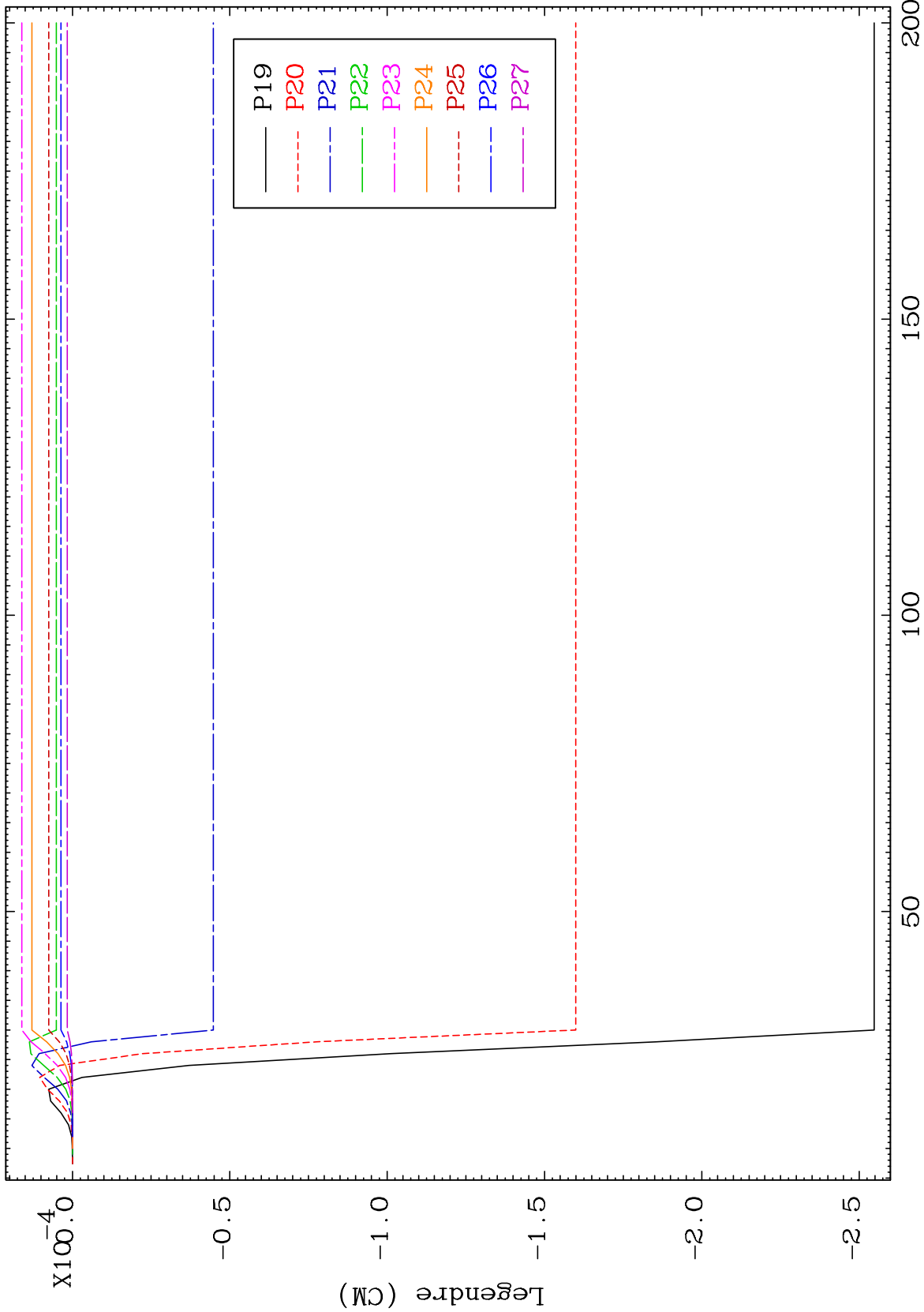


87

Incident Energy (MeV)

64-Gd-137

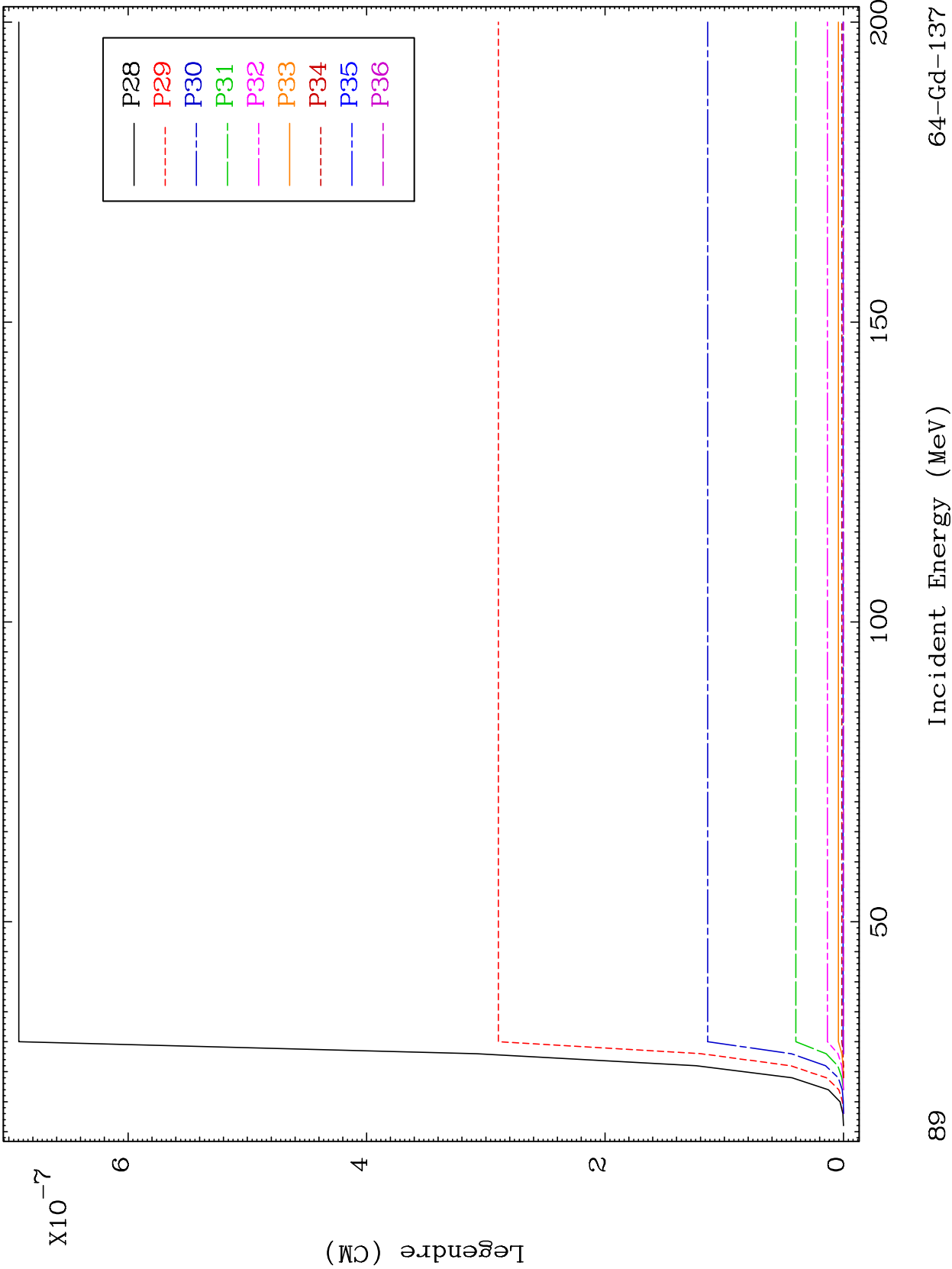




MAT 6380

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

64-Gd-137



89

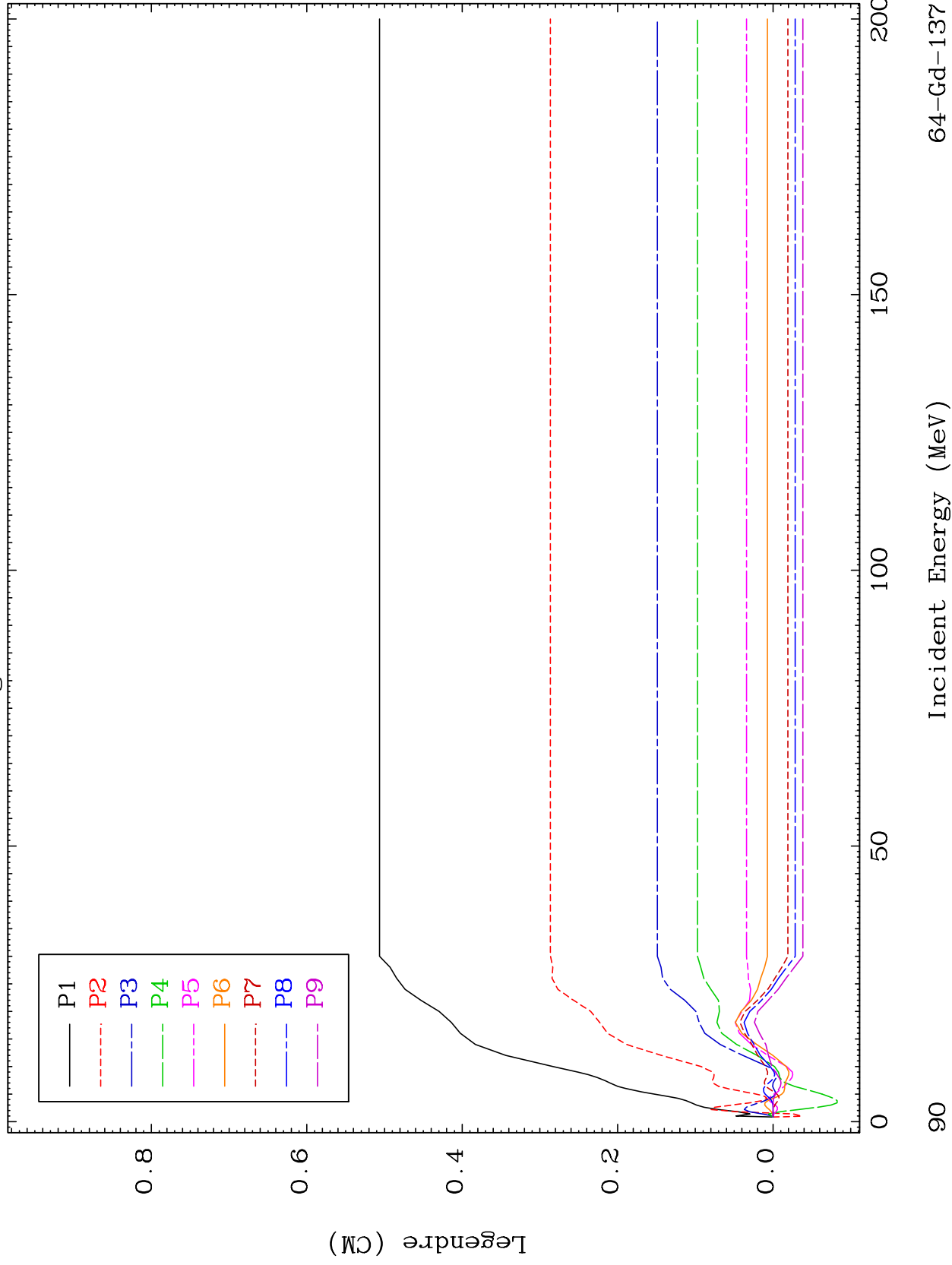
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



64-Gd-137

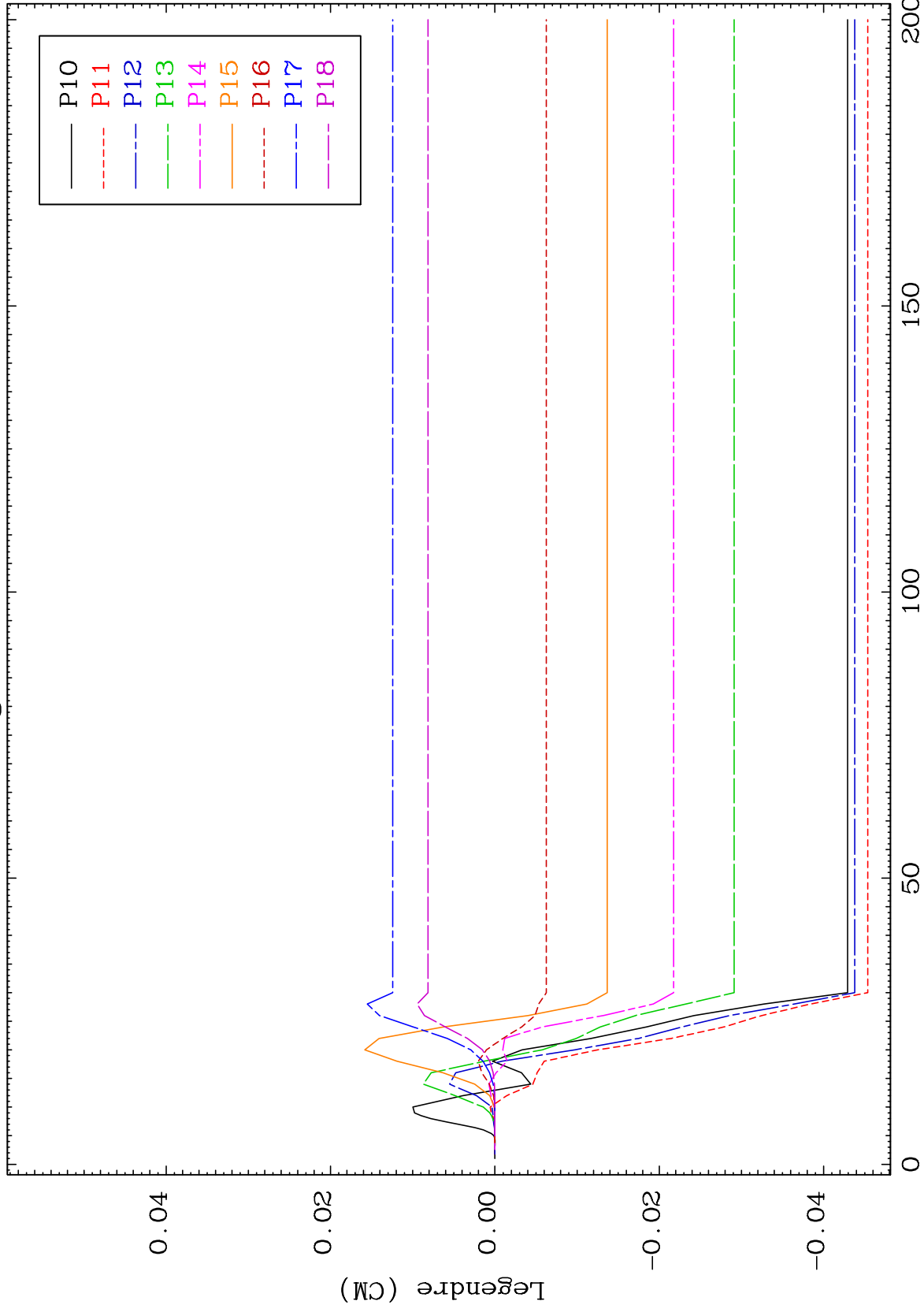
Incident Energy (MeV)

90

MAT 6380

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

64-Gd-137



91

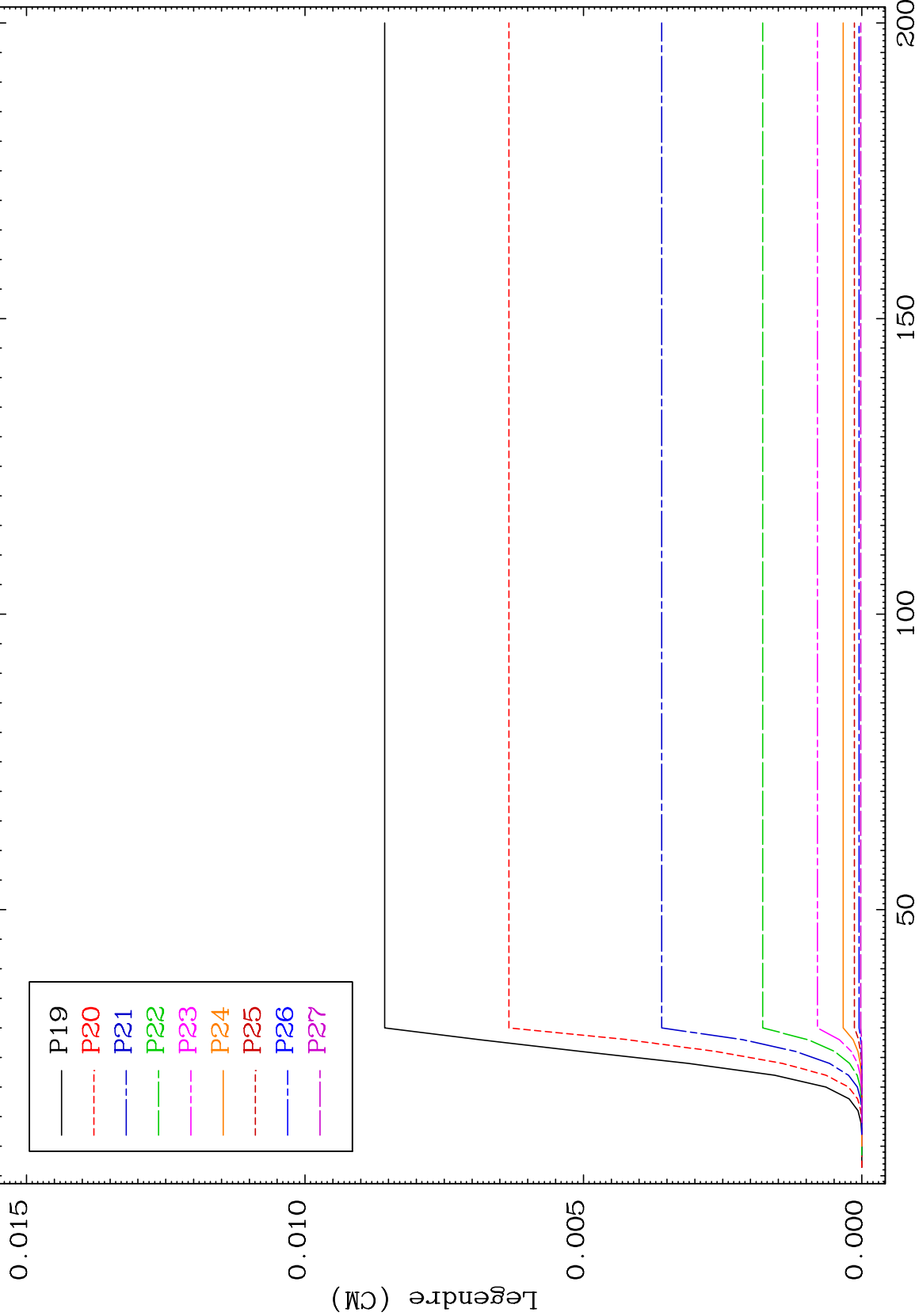
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



92

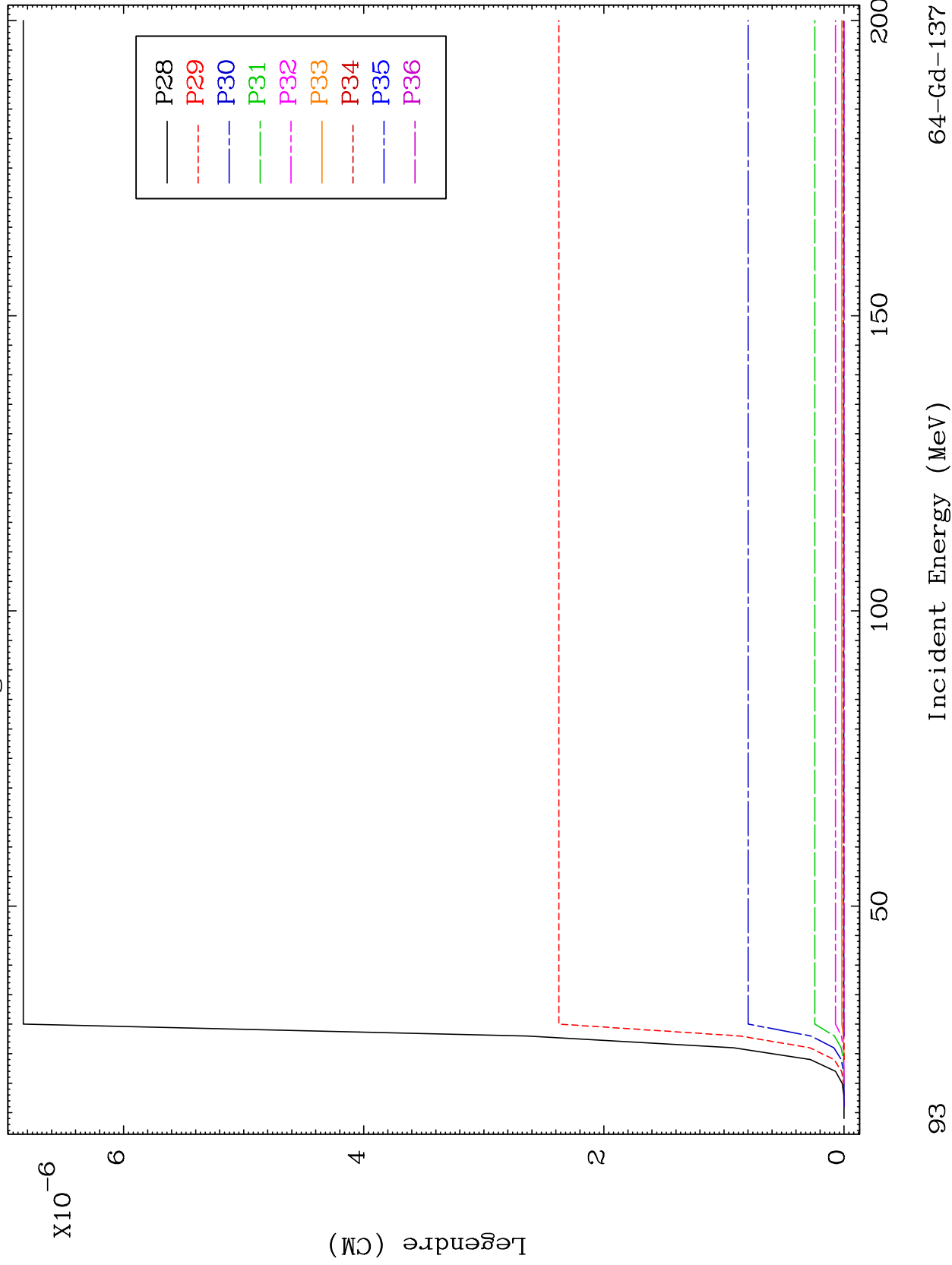
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

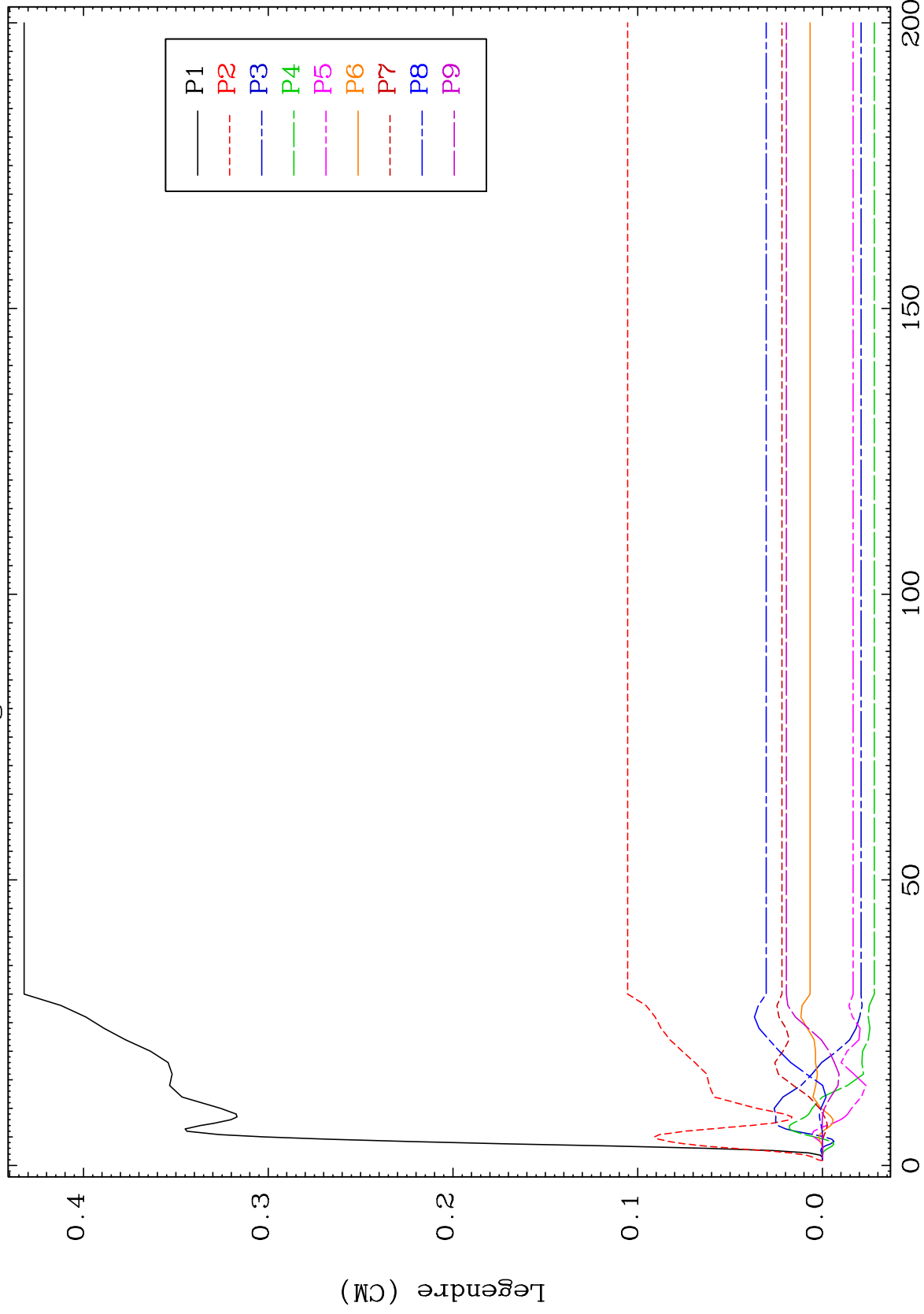
64-Gd-137



MAT 6380

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

64-Gd-137



94

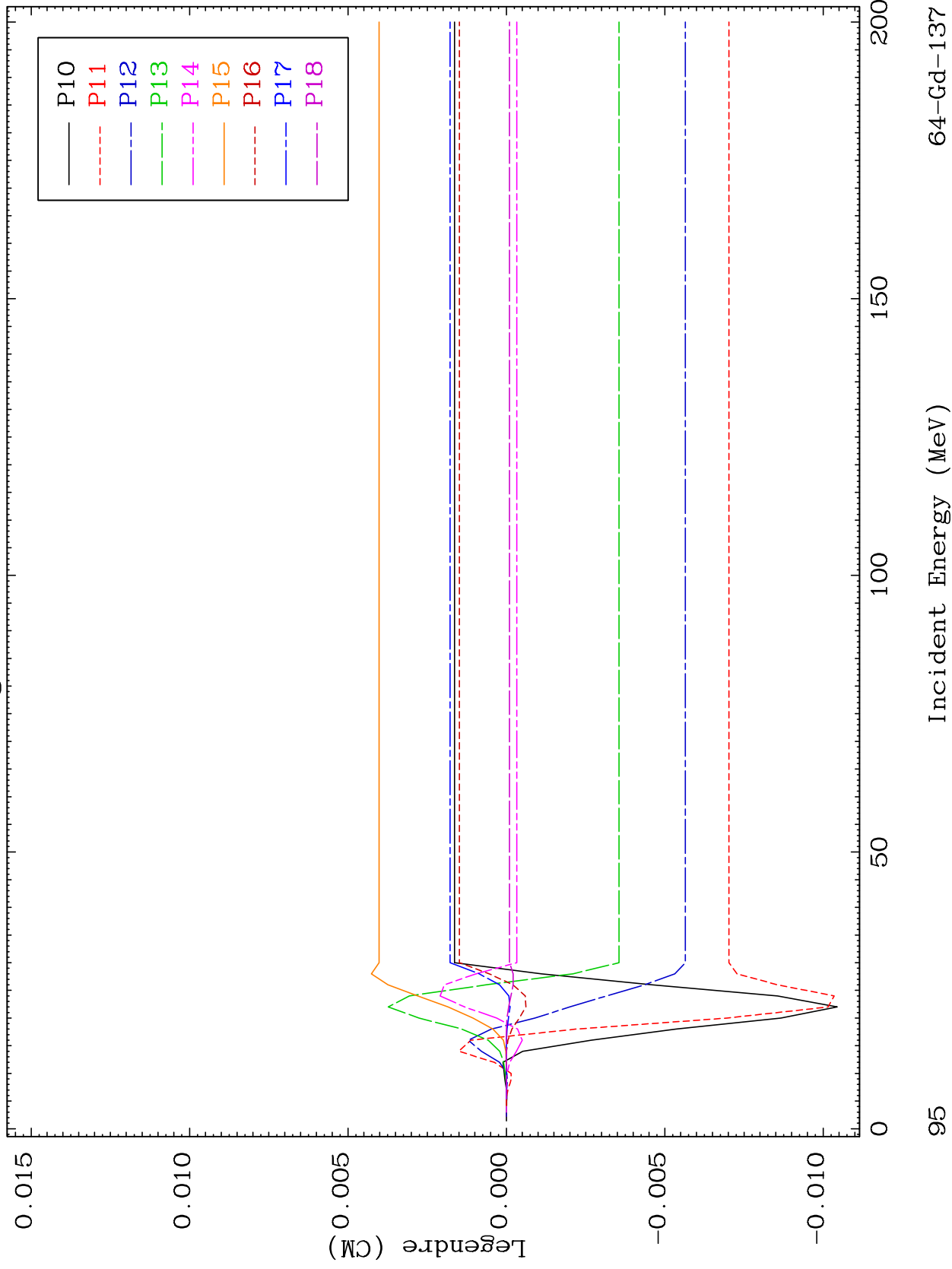
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137

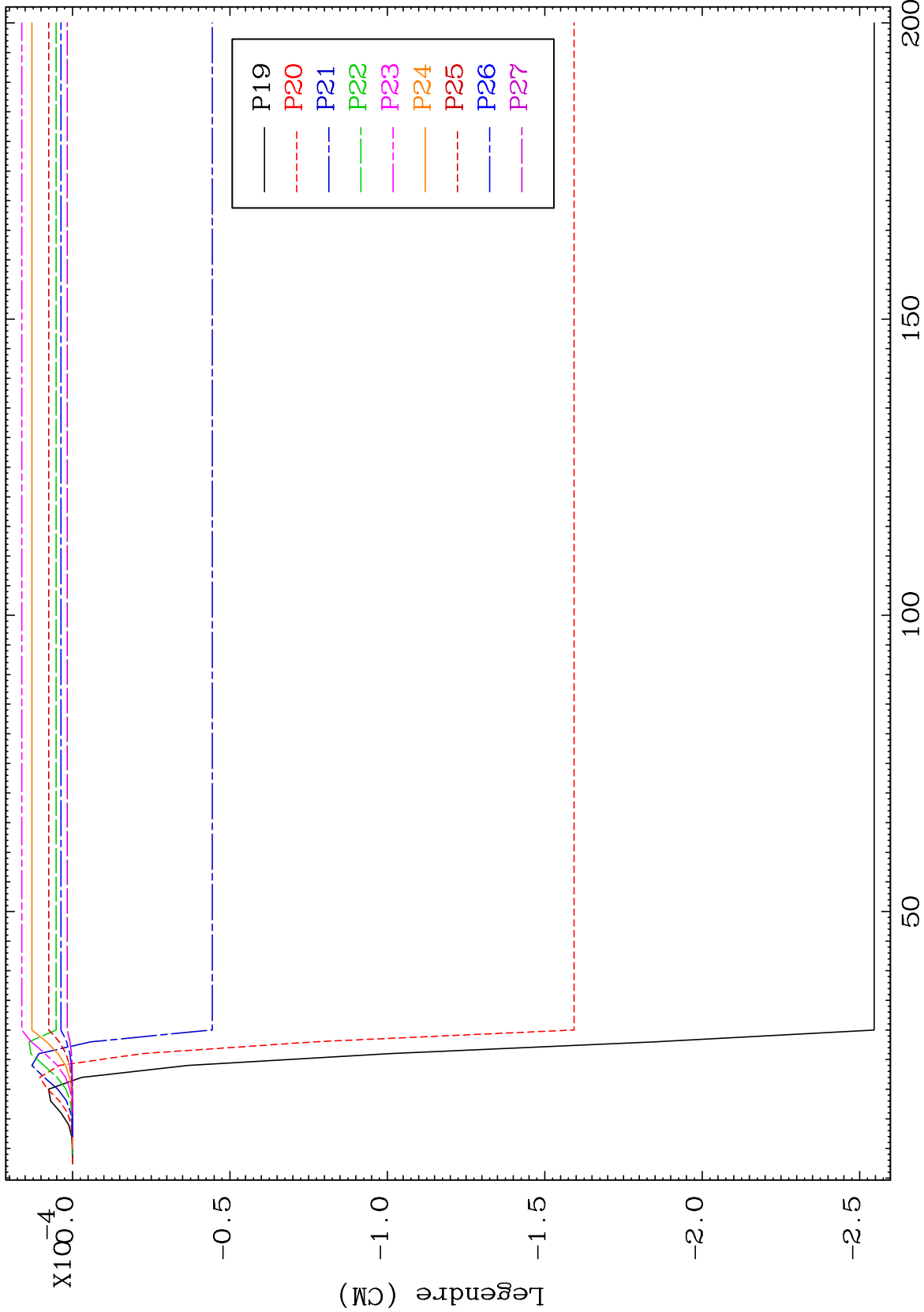


95

Incident Energy (MeV)

64-Gd-137

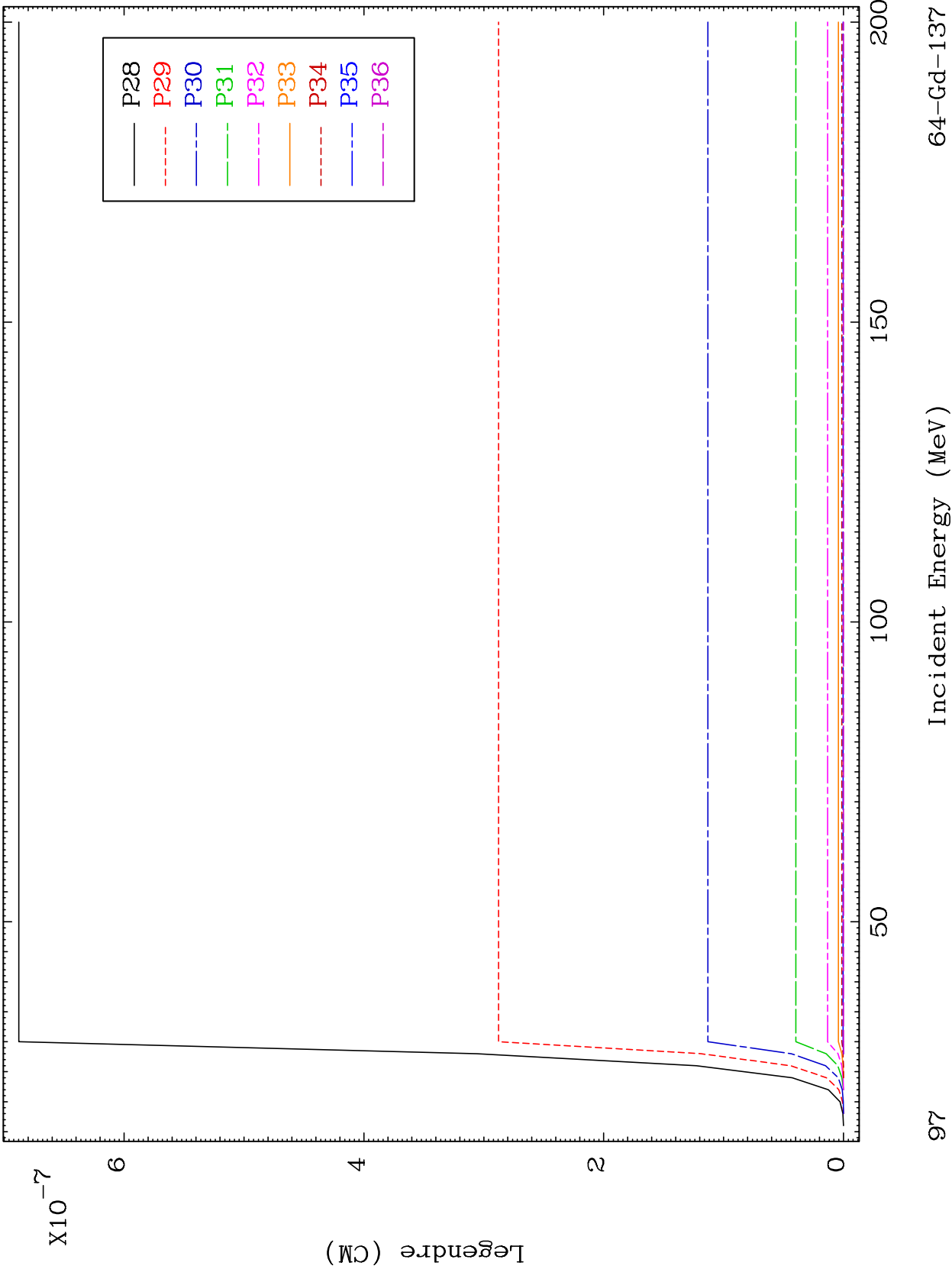




MAT 6380

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

64-Gd-137



97

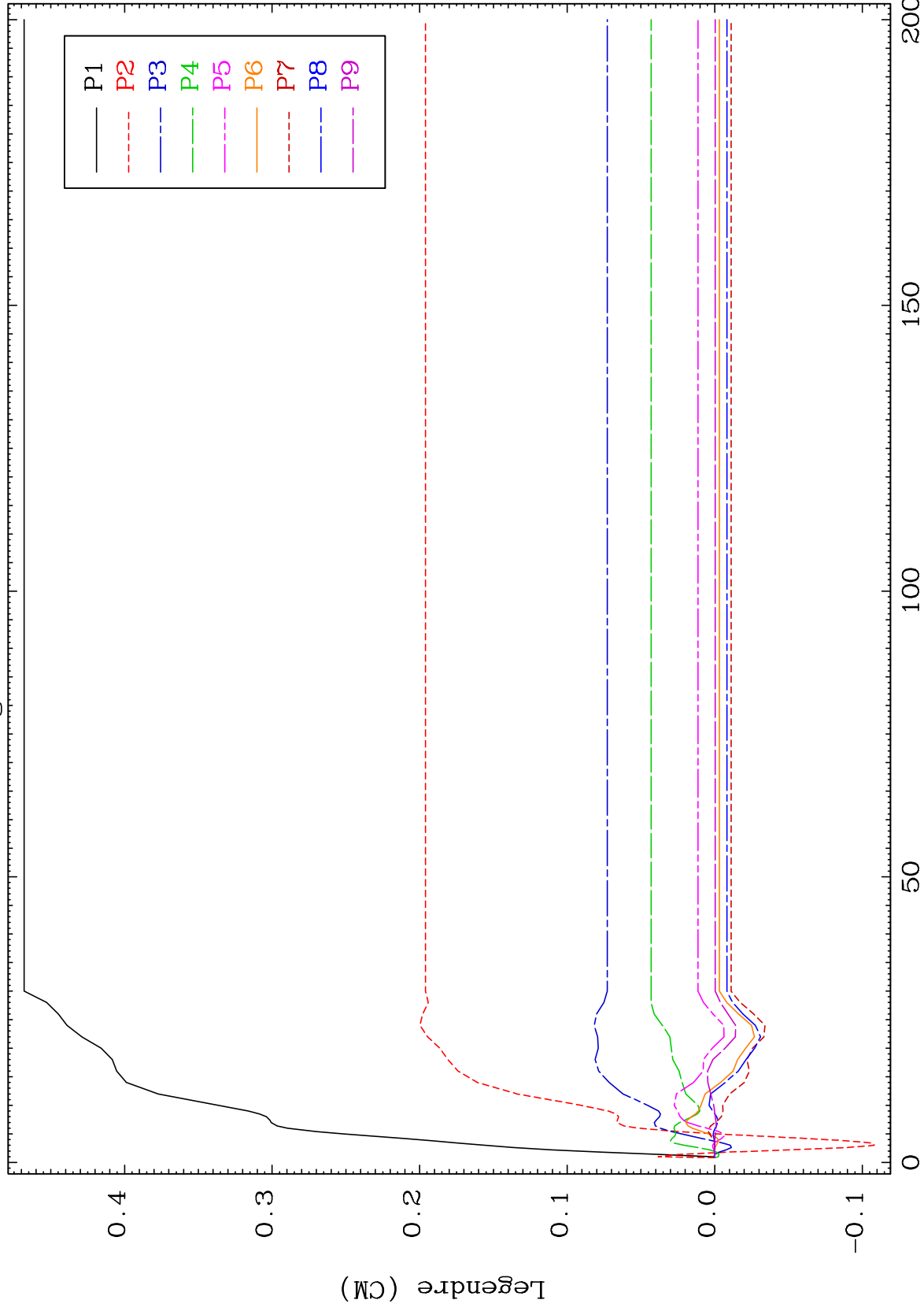
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



98

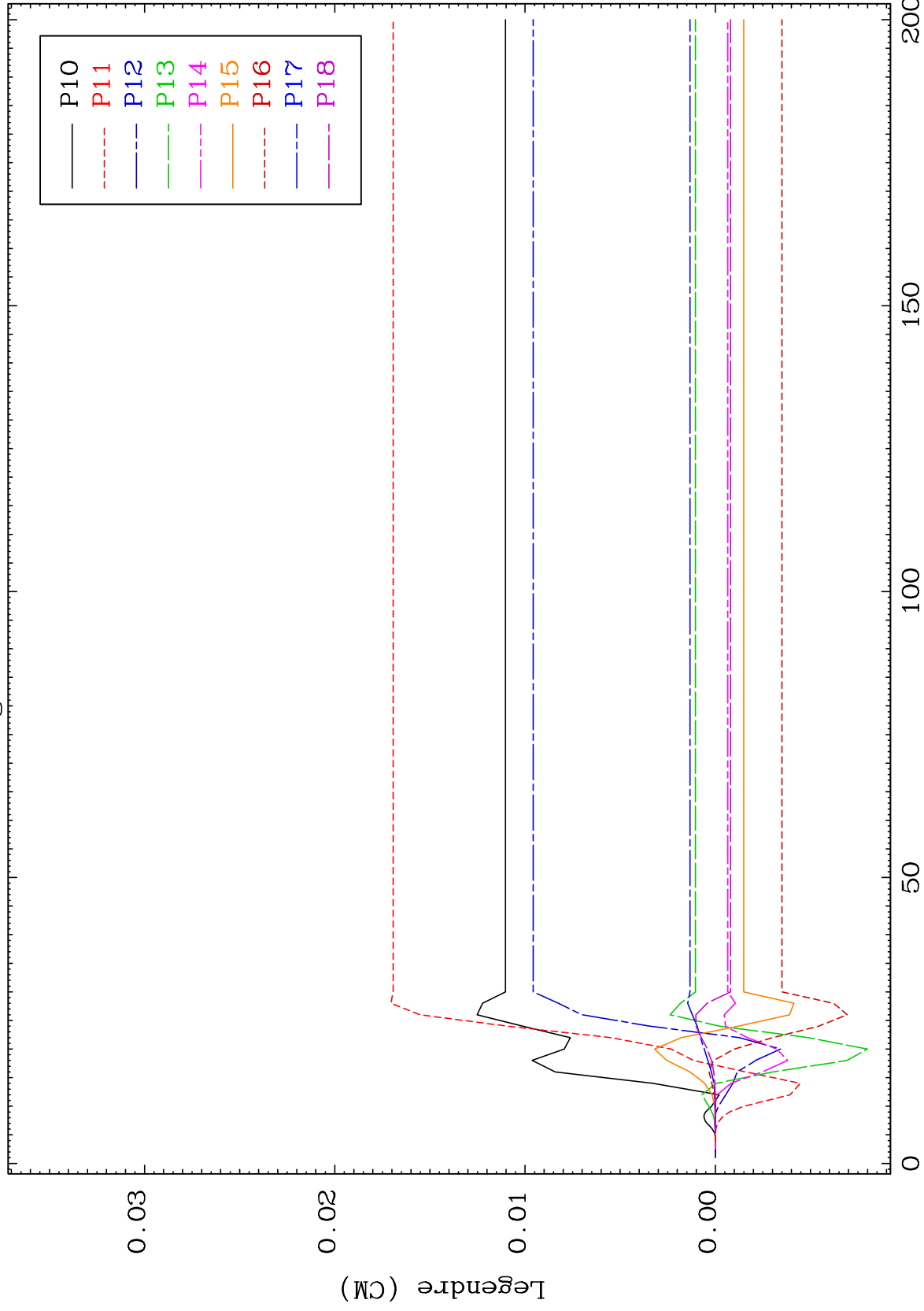
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



99

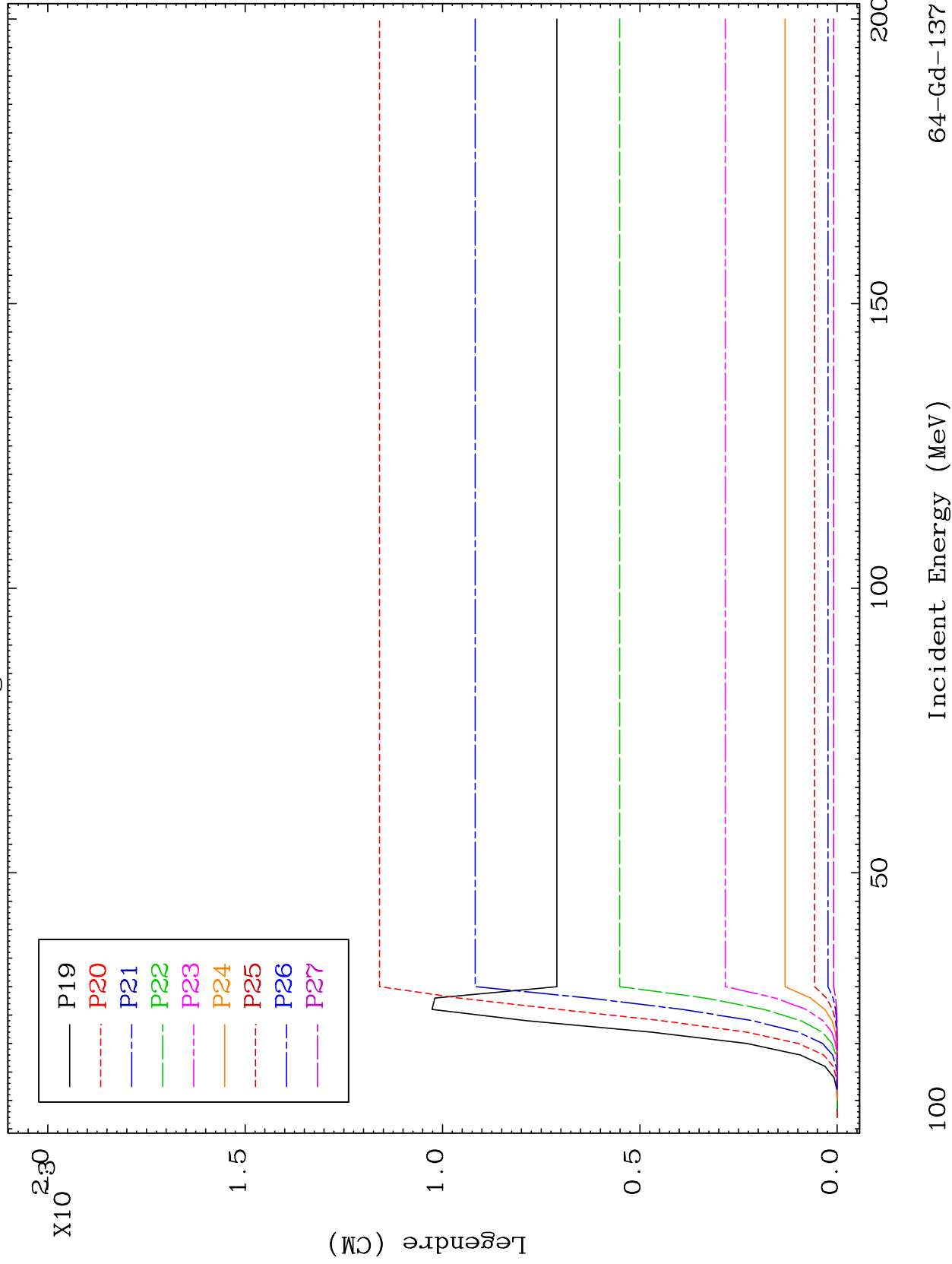
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



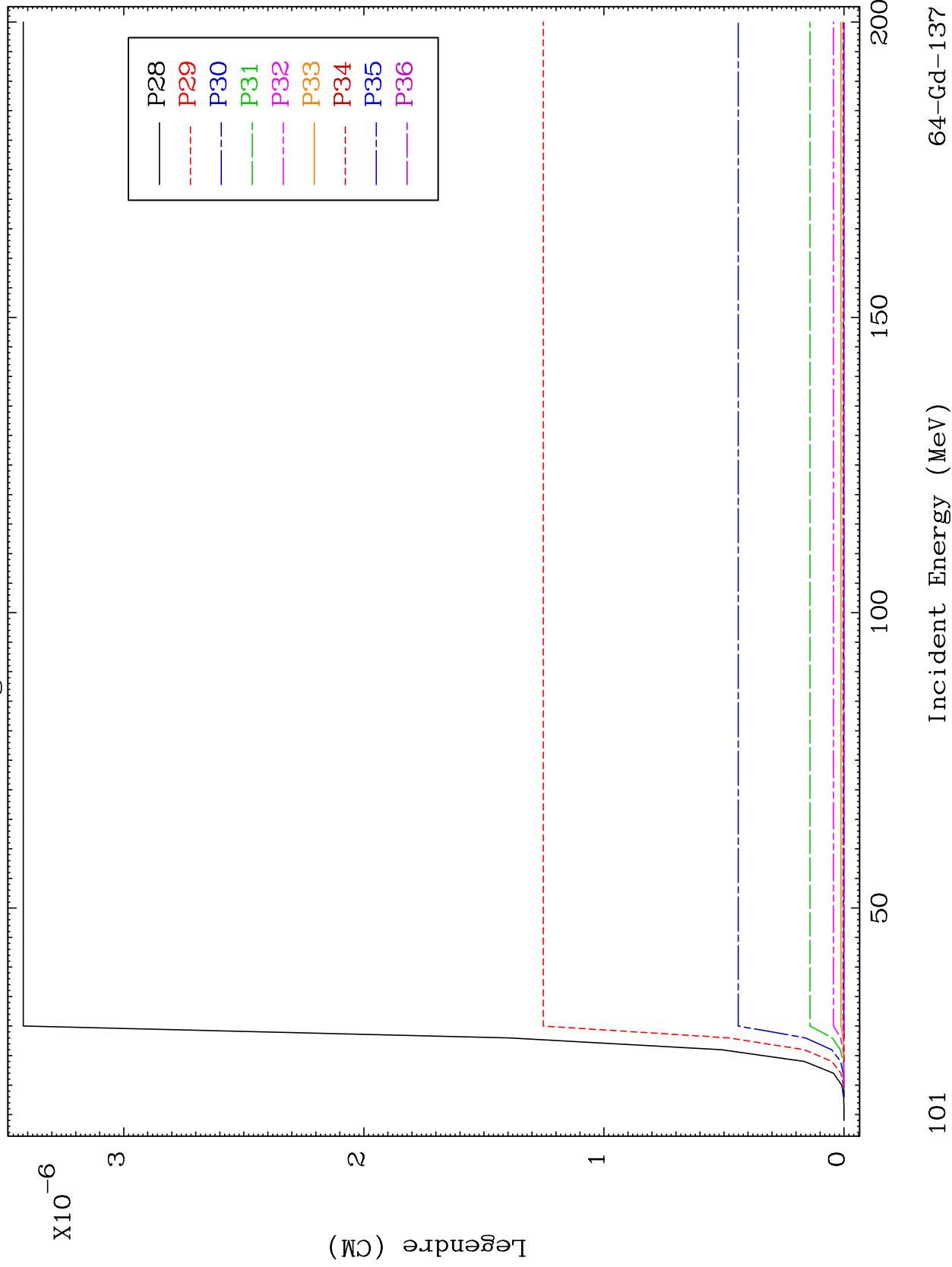
64-Gd-137

Incident Energy (MeV)

MAT 6380

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

64-Gd-137



101

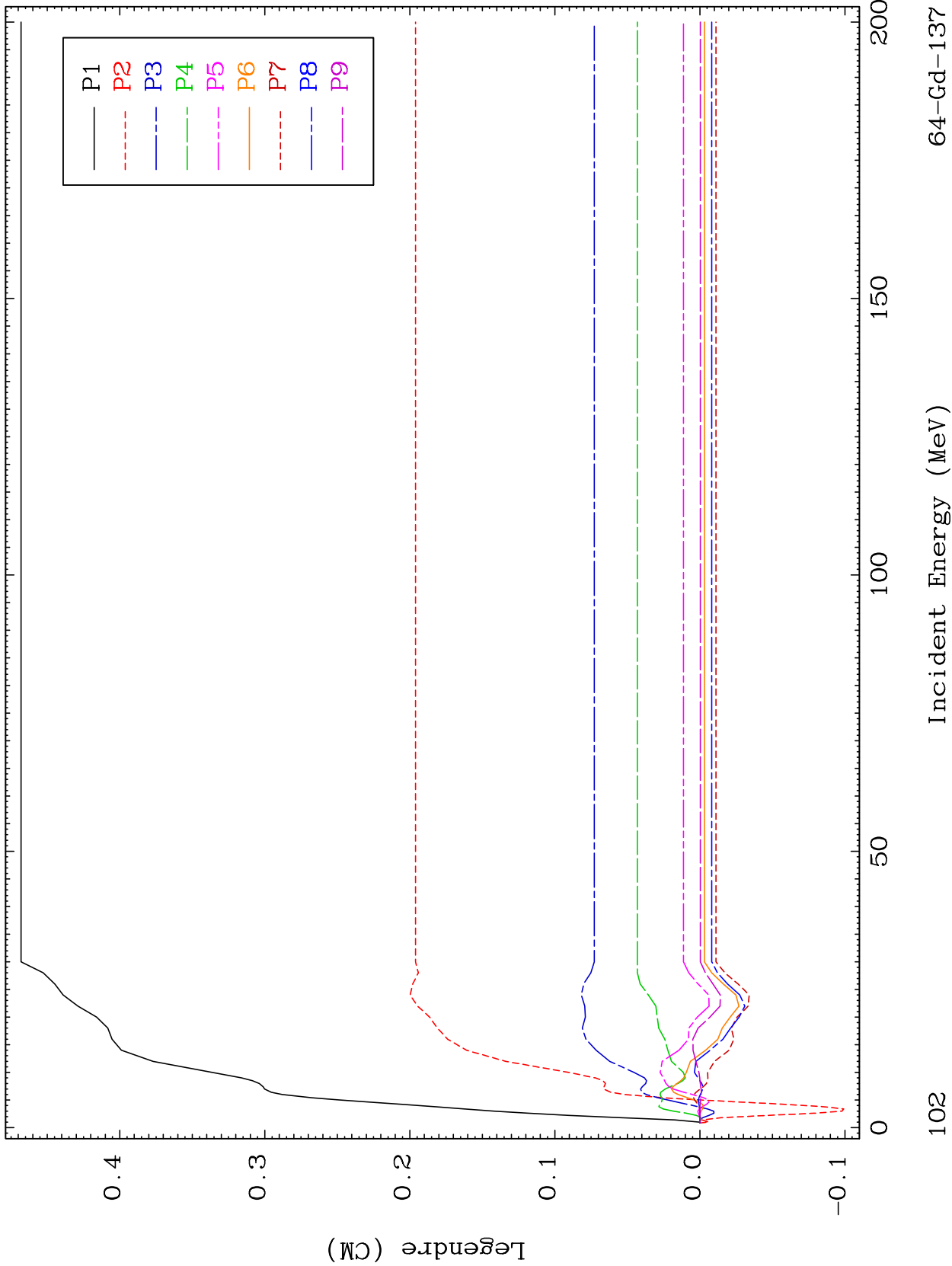
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



64-Gd-137

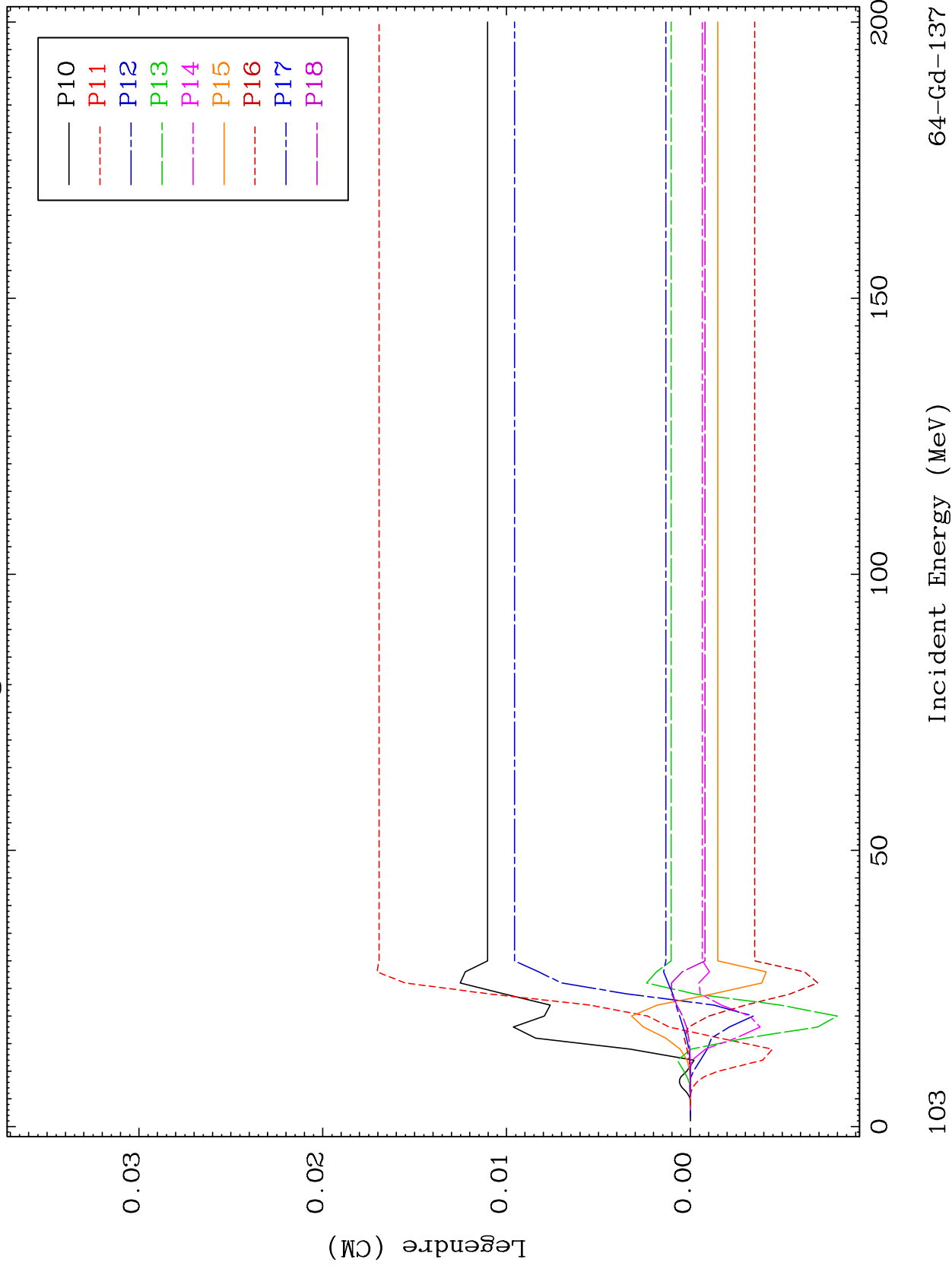
Incident Energy (MeV)

102

MAT 6380

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

64-Gd-137



64-Gd-137

Incident Energy (MeV)

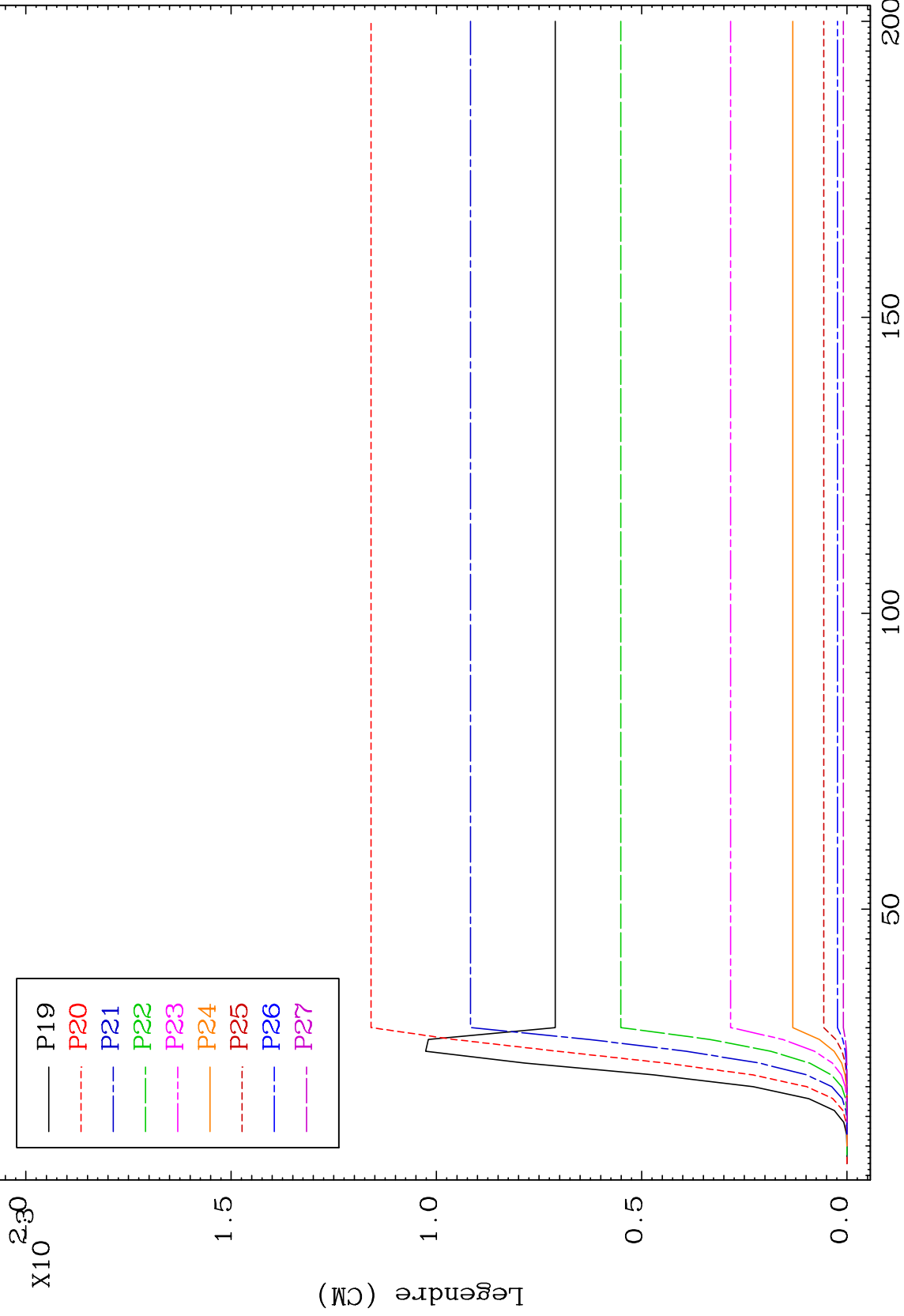
103



MAT 6380

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

64-Gd-137



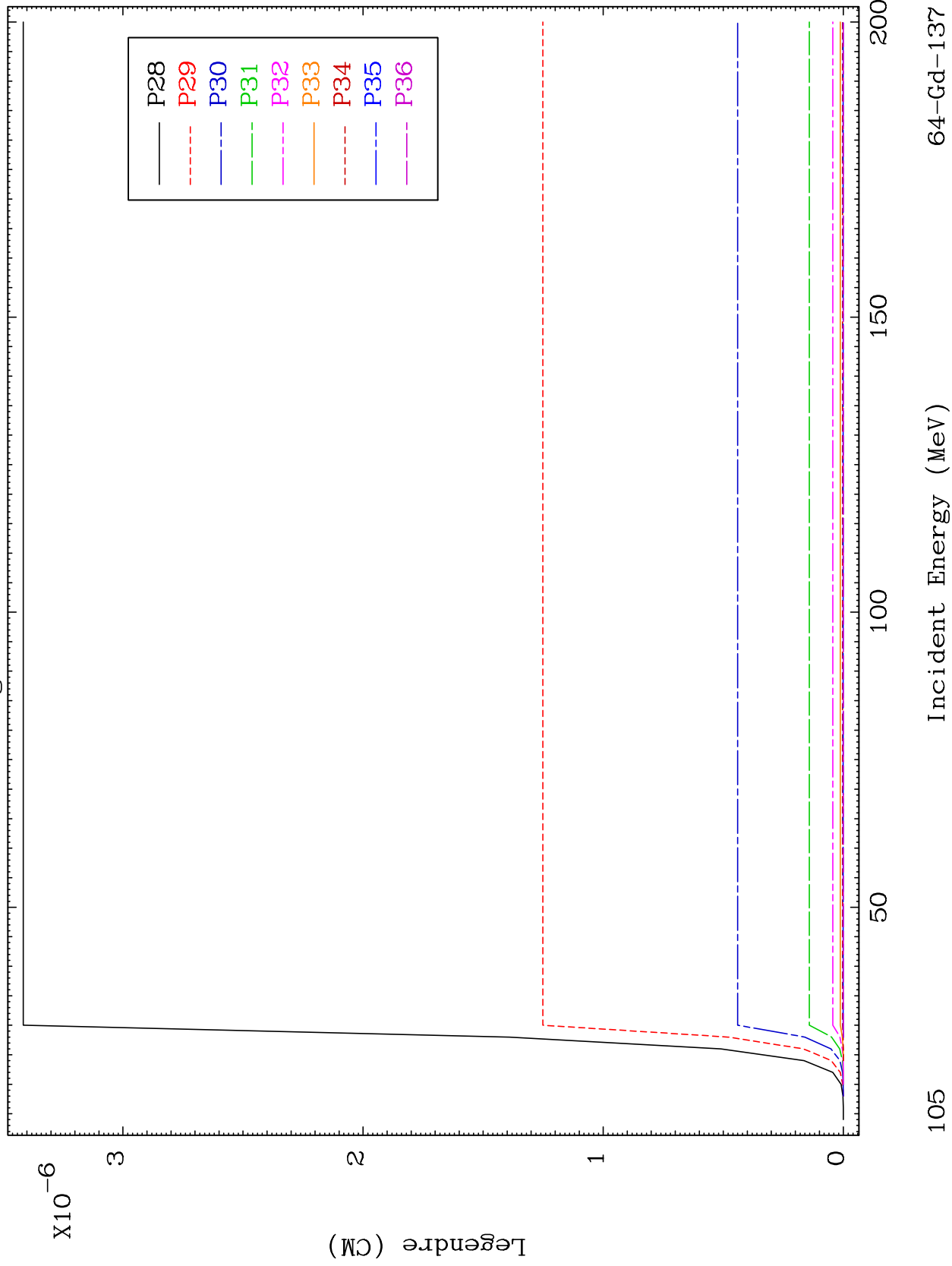
104

64-Gd-137

MAT 6380

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

64-Gd-137



64-Gd-137

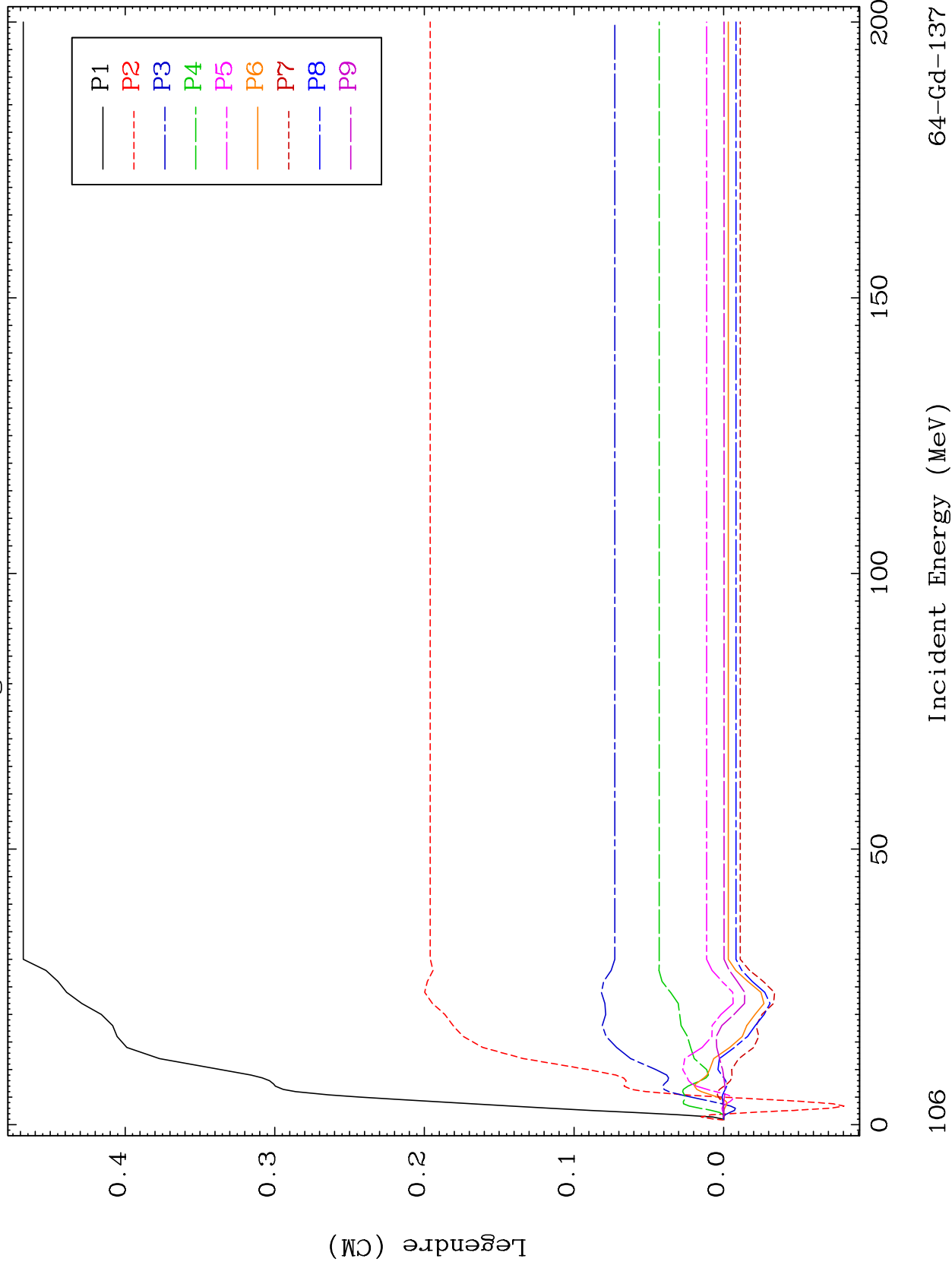
Incident Energy (MeV)

105

MAT 6380

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

64-Gd-137



64-Gd-137

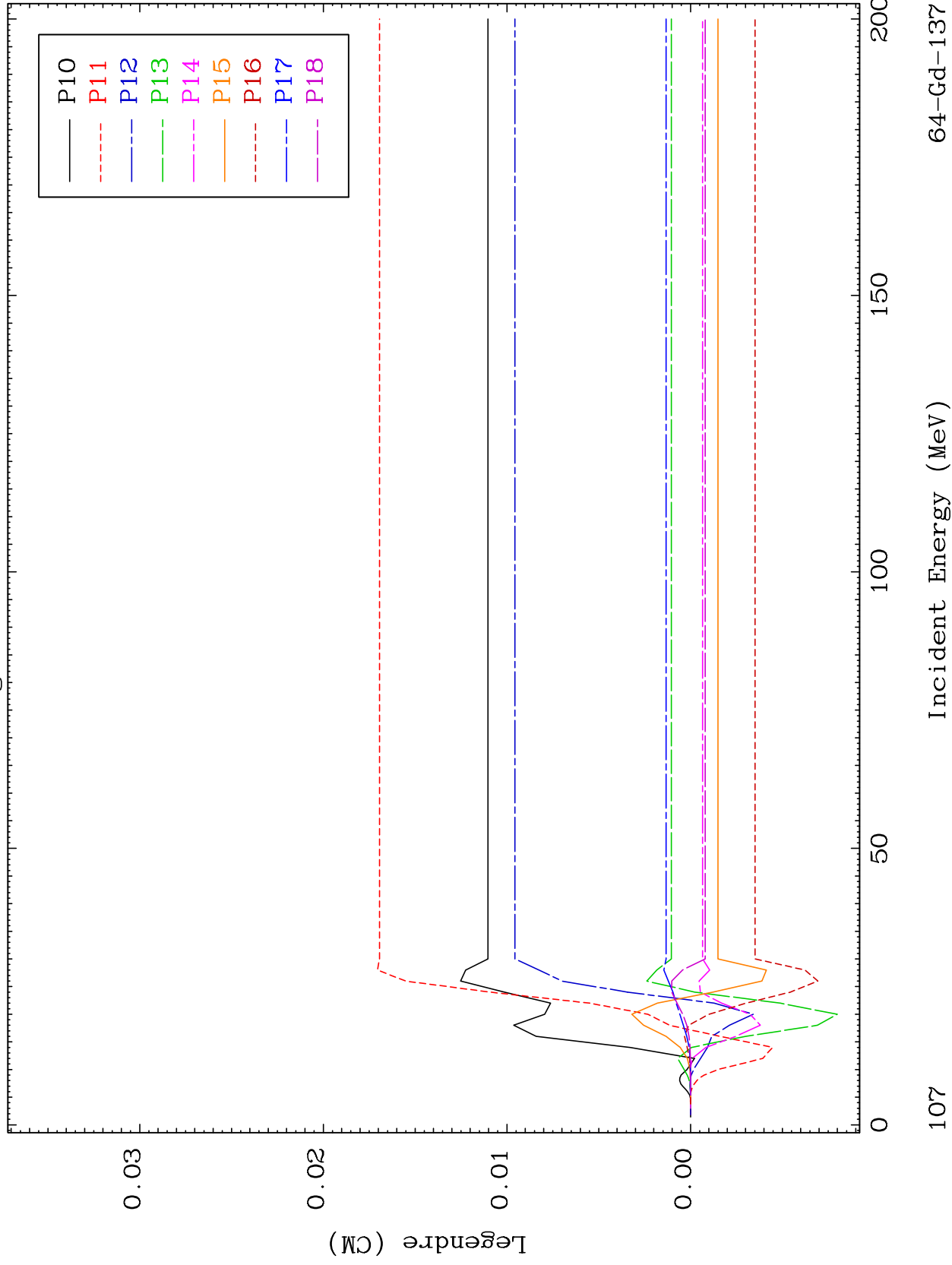
Incident Energy (MeV)

106

MAT 6380

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

64-Gd-137



64-Gd-137

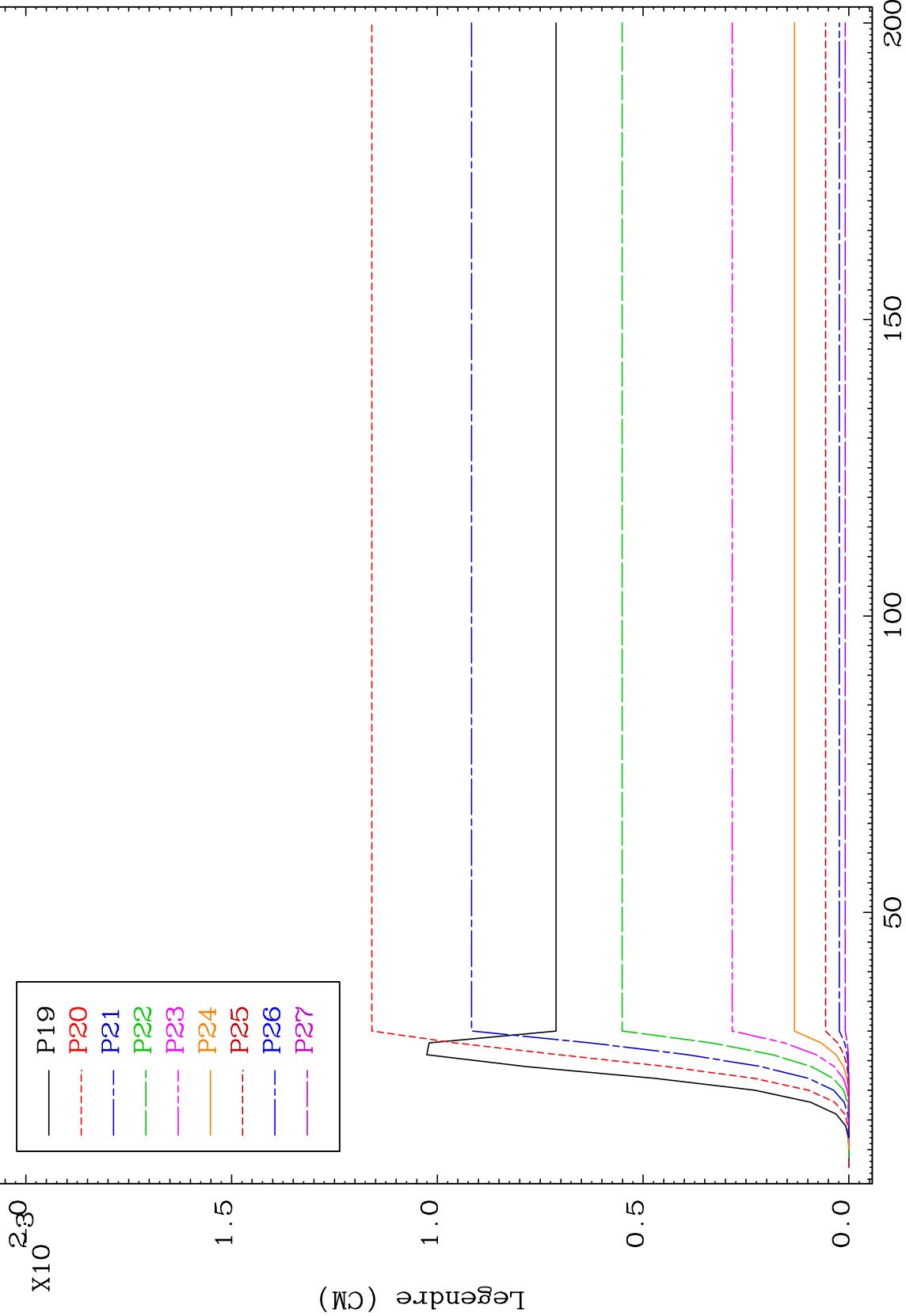
Incident Energy (MeV)

107

MAT 6380

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

64-Gd-137



108

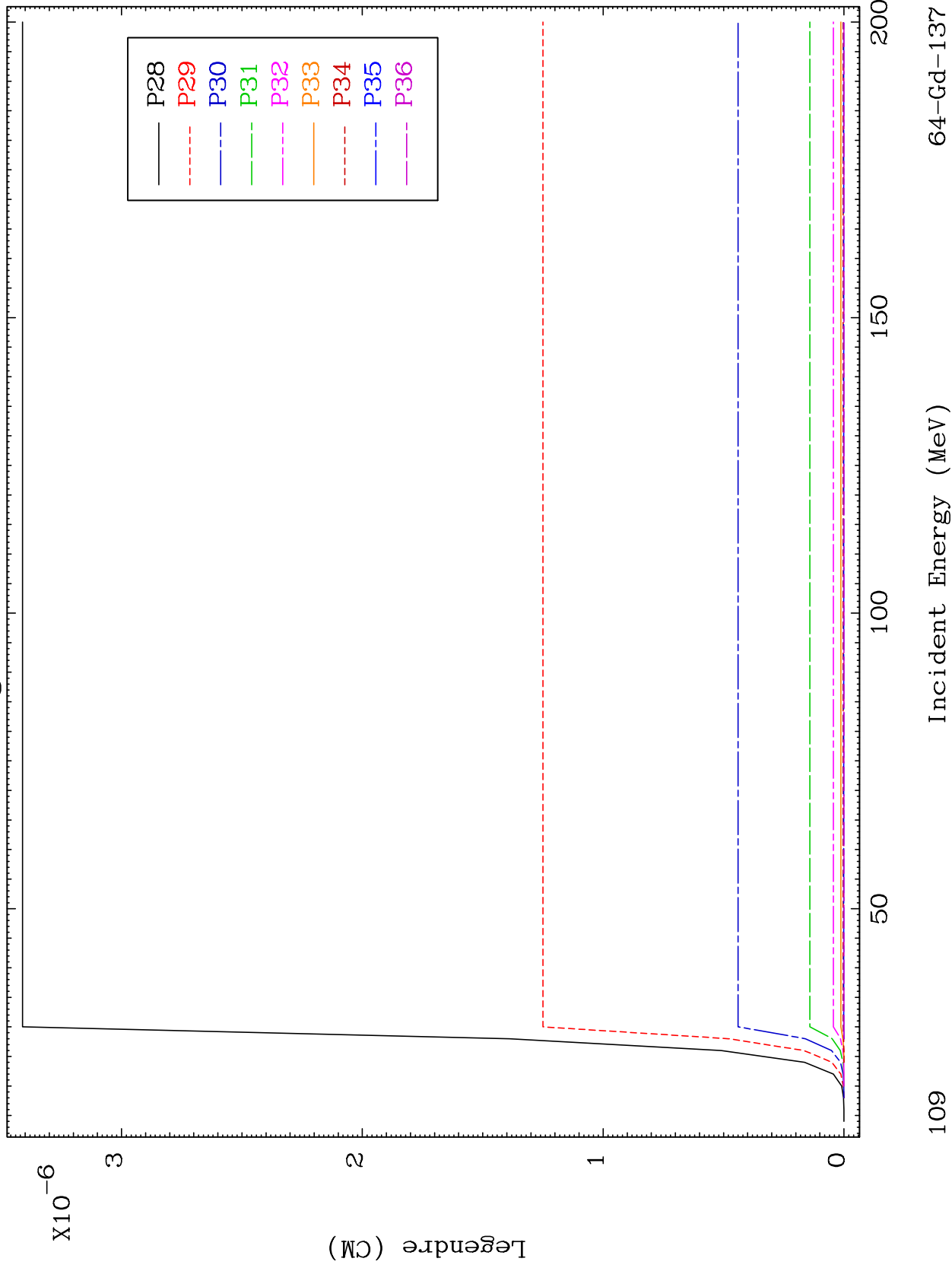
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



109

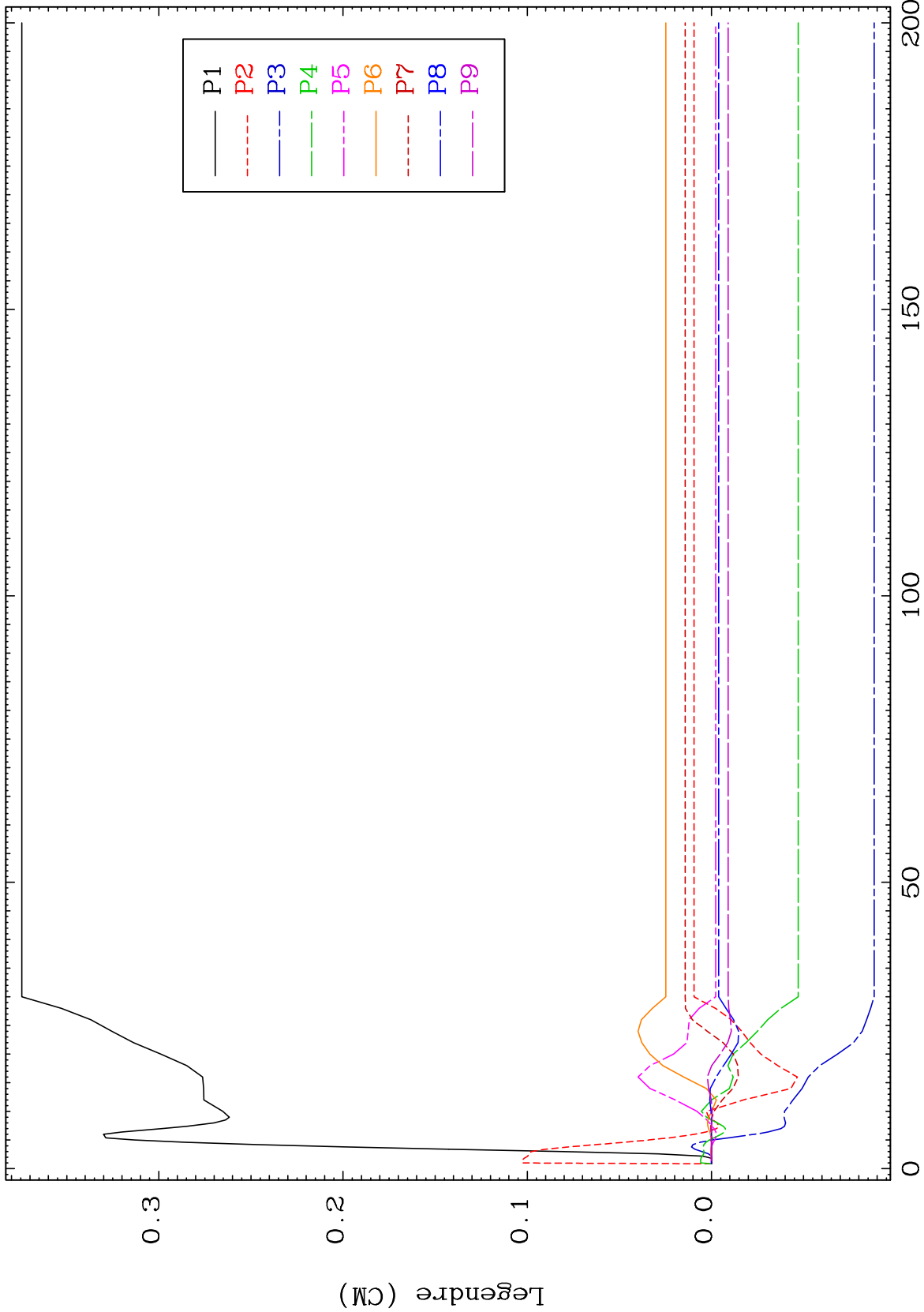
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



64-Gd-137

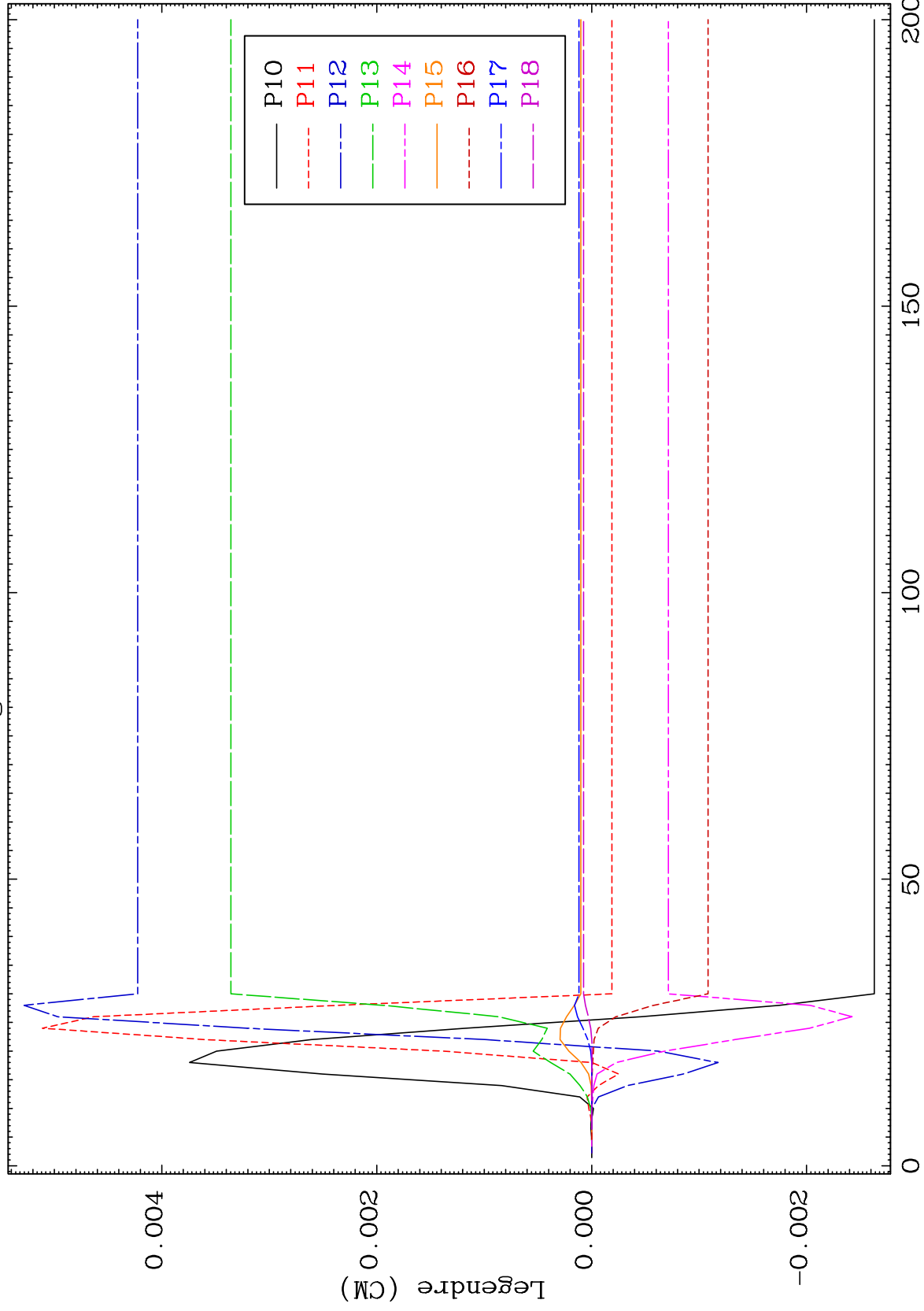
Incident Energy (MeV)

110

MAT 6380

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

64-Gd-137



111

Incident Energy (MeV)

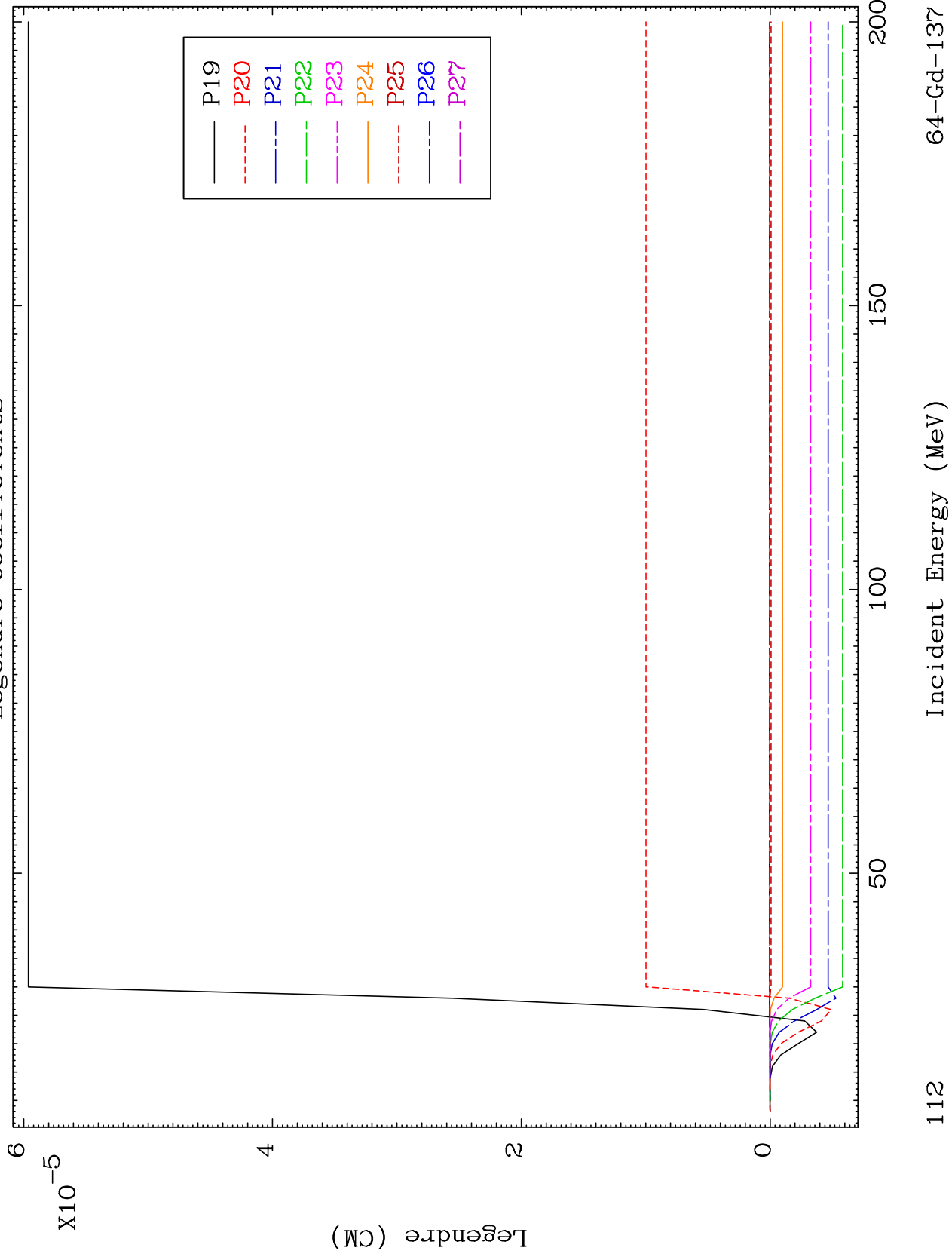
64-Gd-137



MAT 6380

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

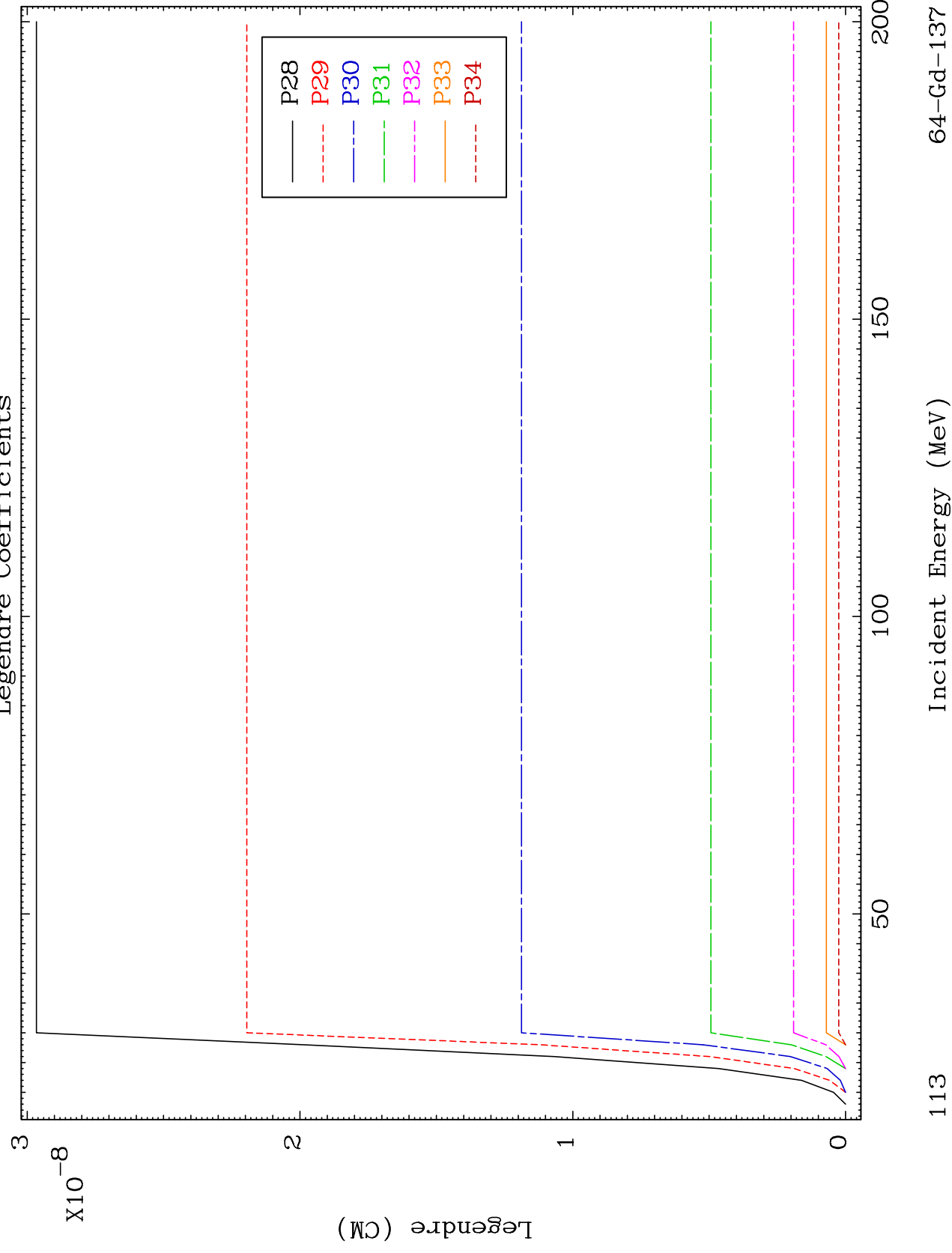
64-Gd-137



MAT 6380

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

64-Gd-137



113

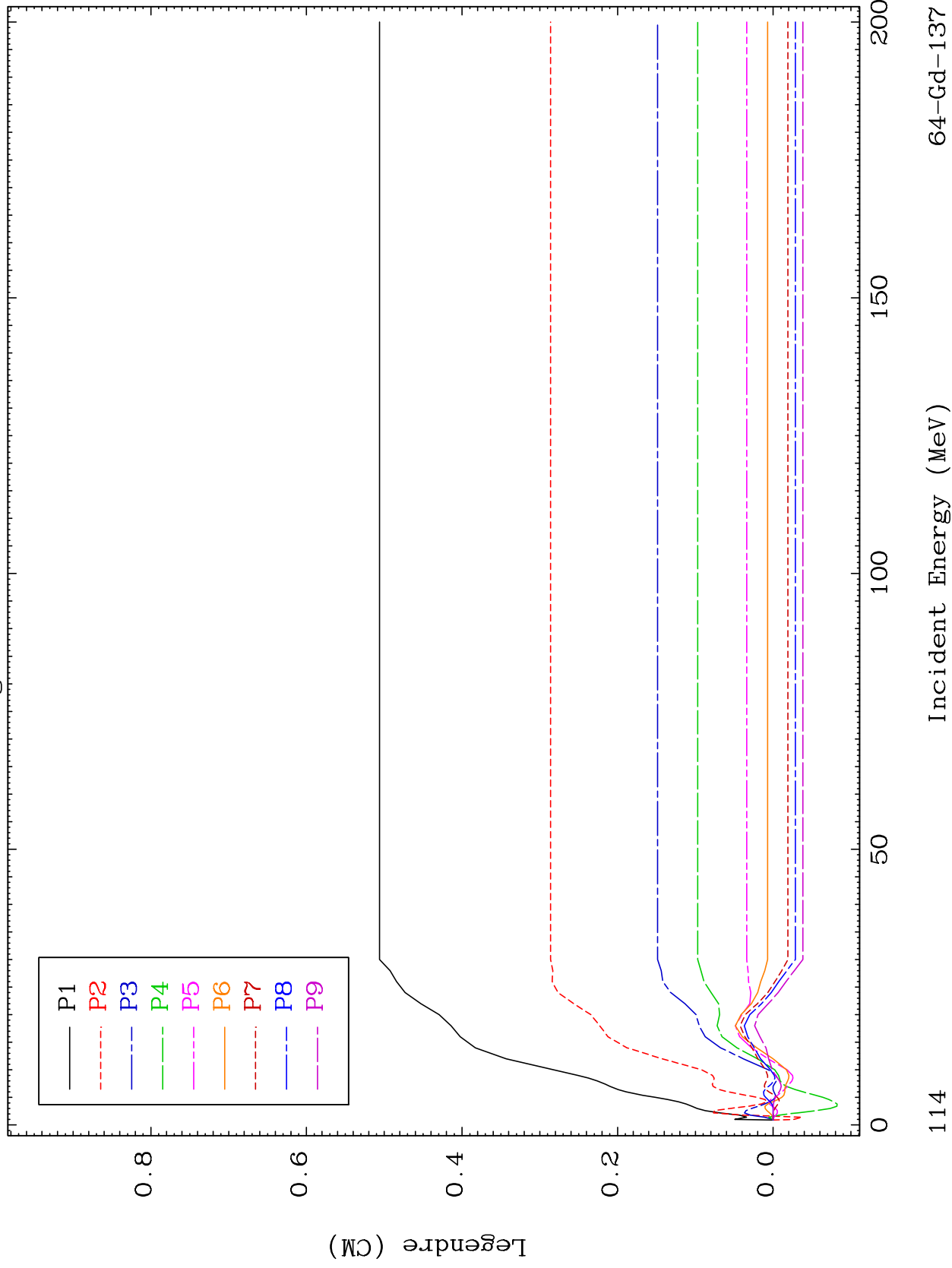
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



114

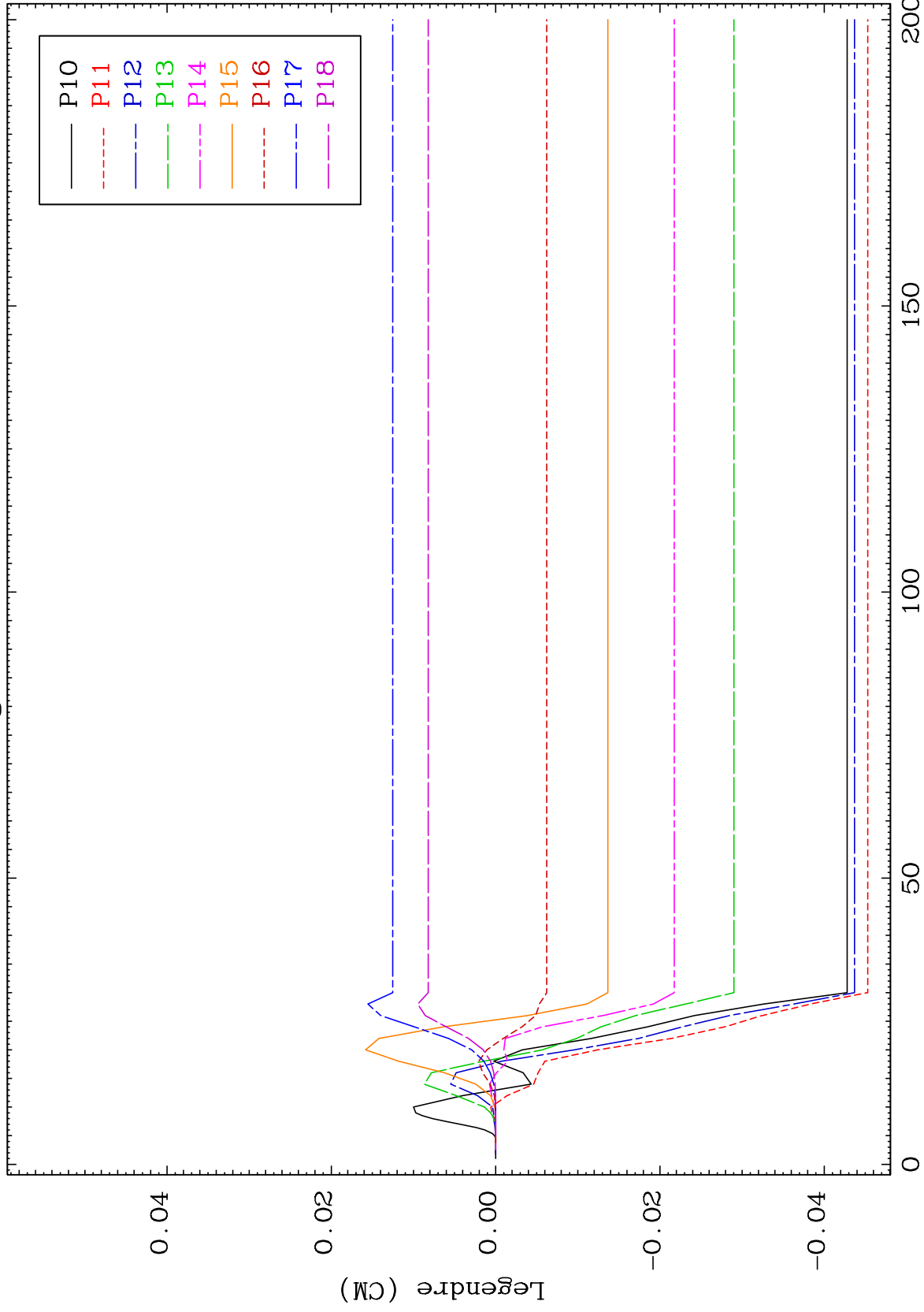
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



115

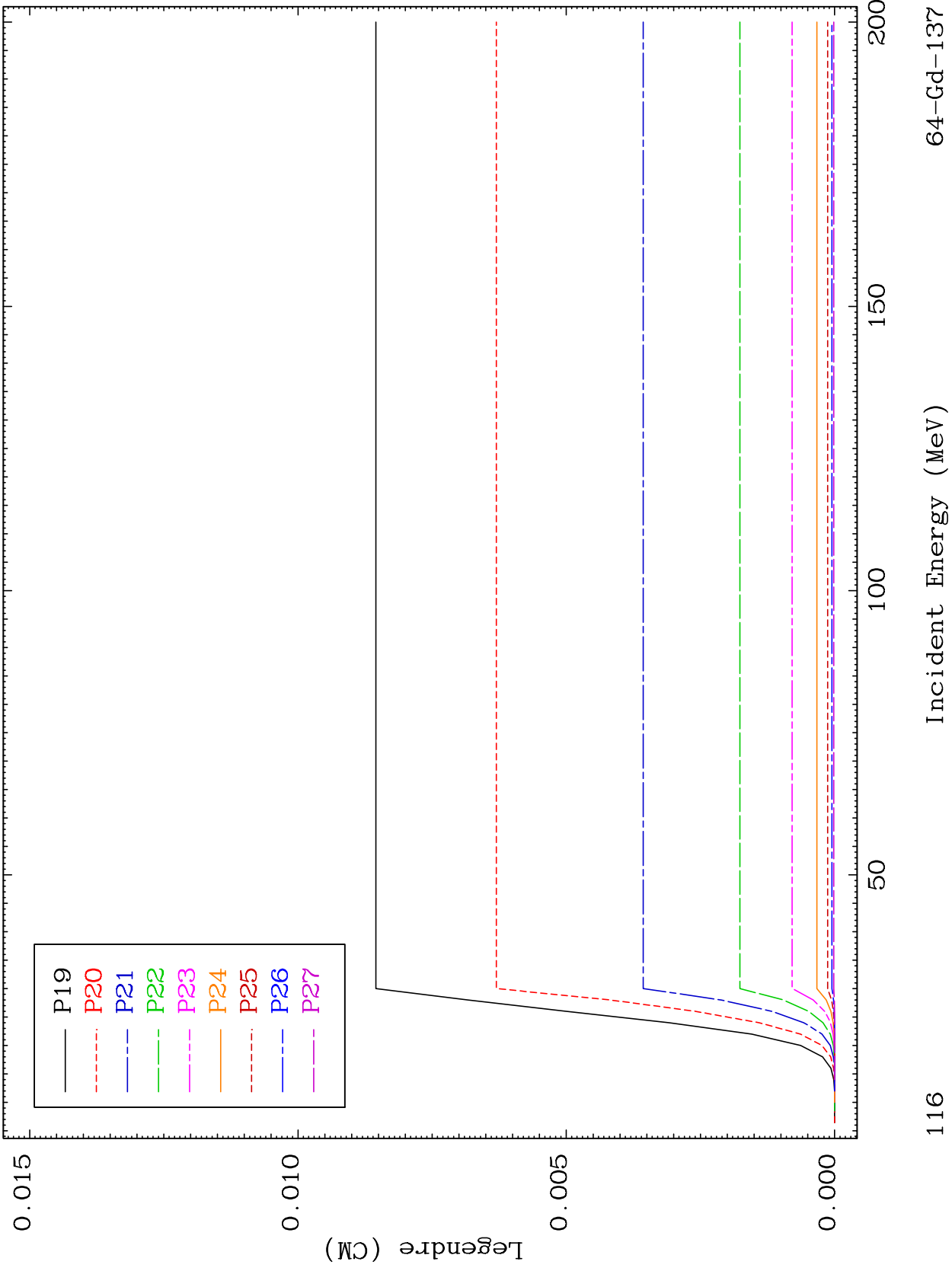
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



116

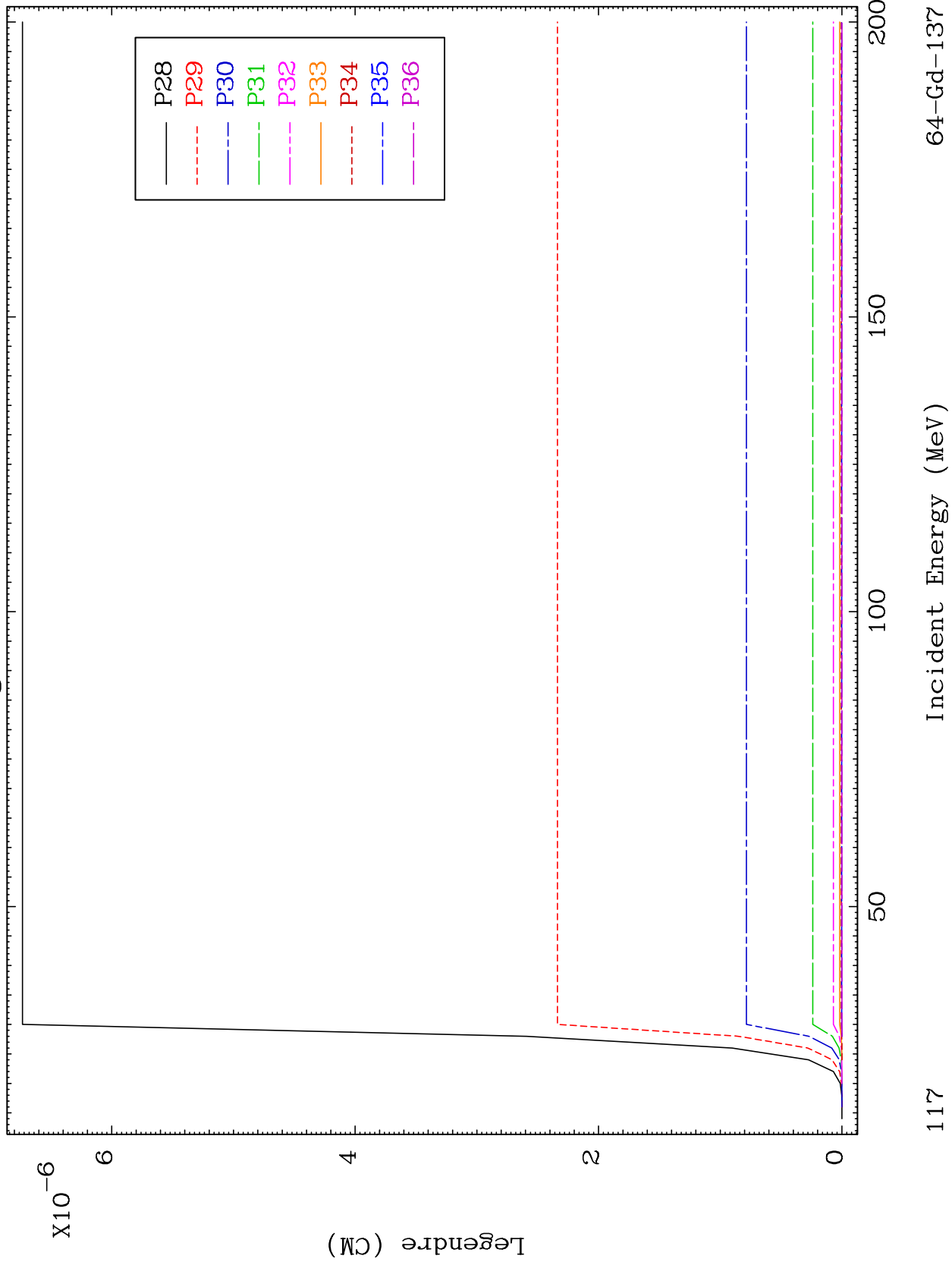
Incident Energy (MeV)

64-Gd-137

MAT 6380

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

64-Gd-137



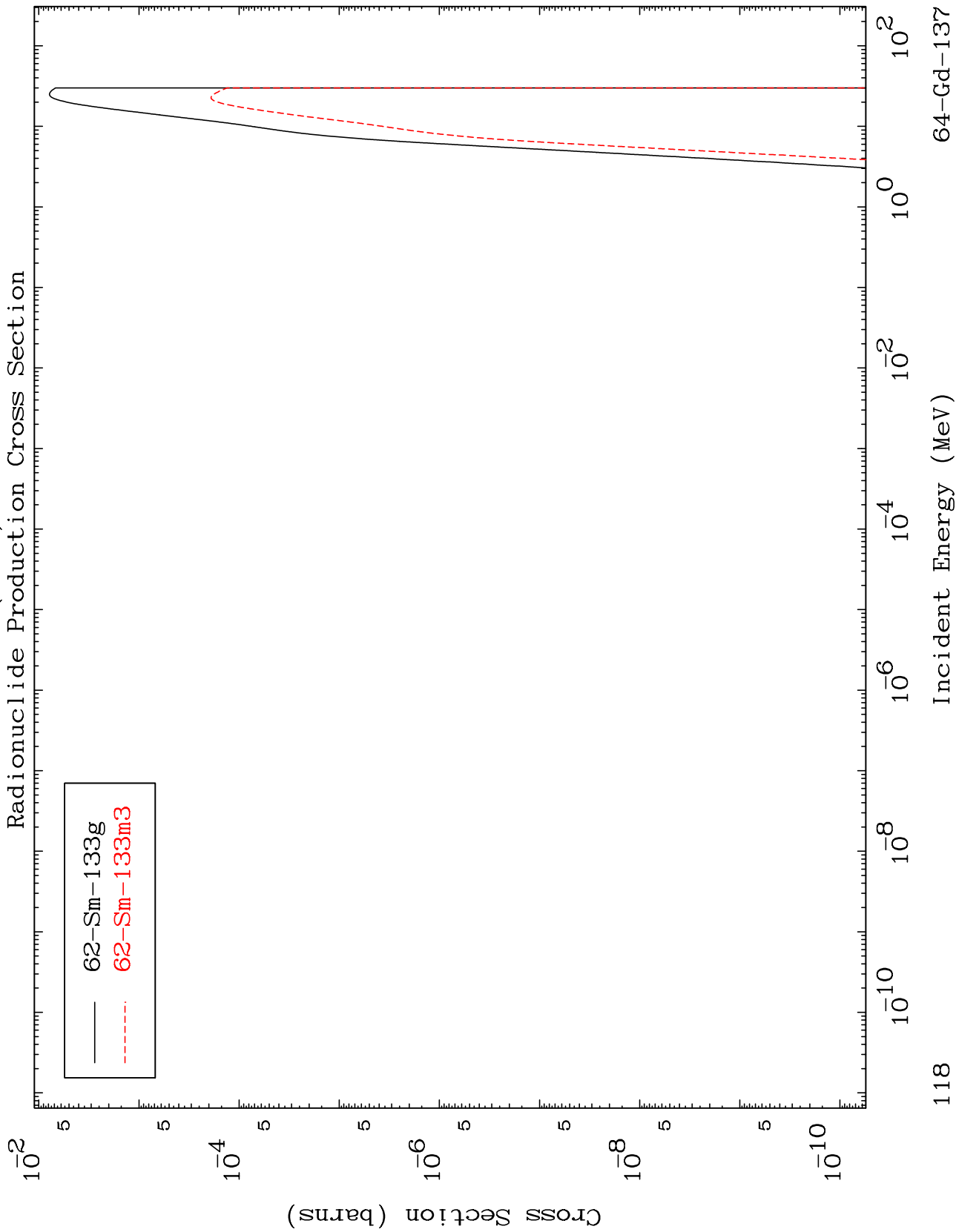
117

64-Gd-137

MAT 6380

$(n, n') \alpha$

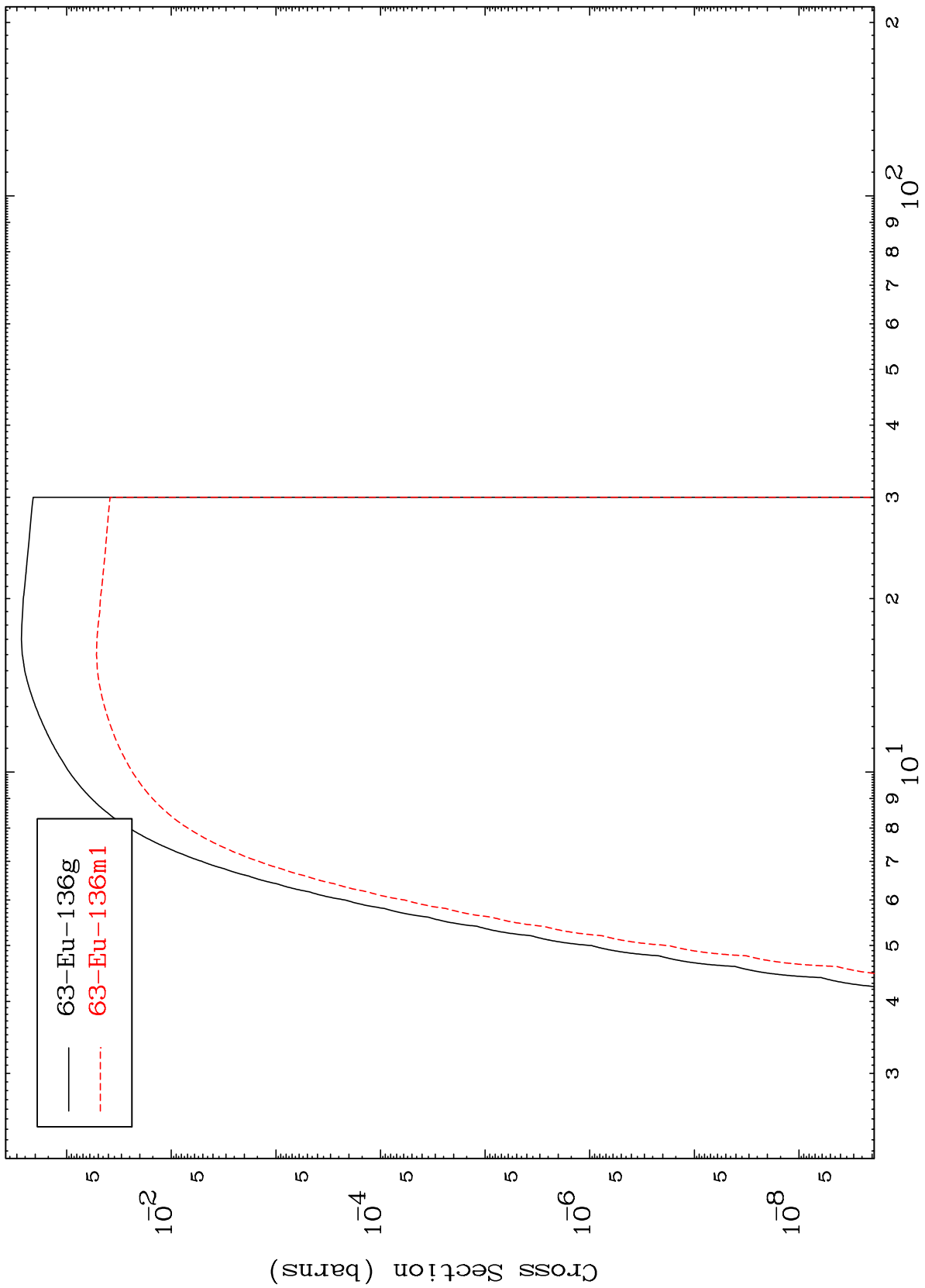
64-Gd-137



MAT 6380

64-Gd-137

(n,n') p  
Radionuclide Production Cross Section



63-Eu-136g  
63-Eu-136m1

119

Incident Energy (MeV)

64-Gd-137

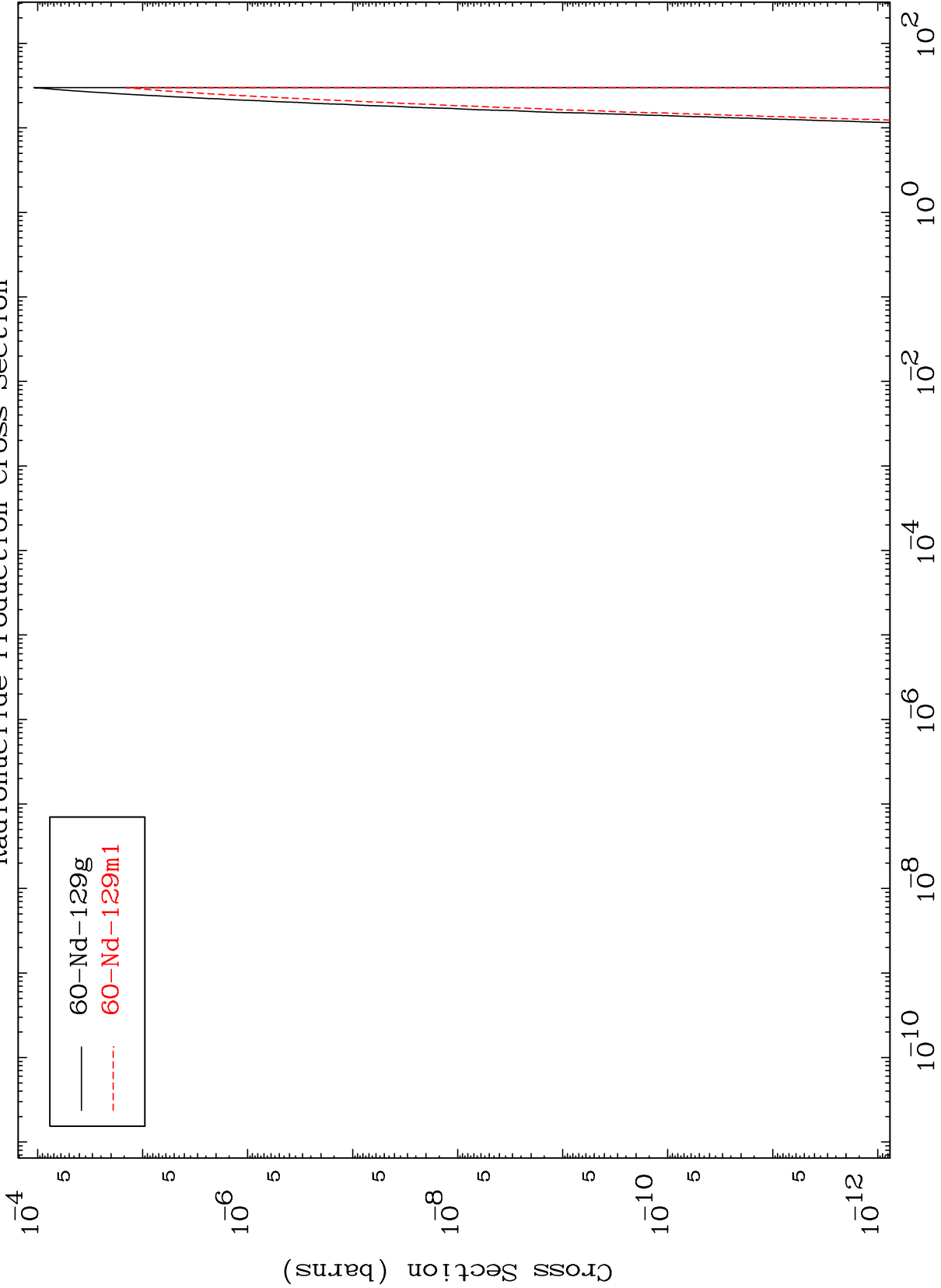


MAT 6380

(n,n') 2α

64-Gd-137

Radionuclide Production Cross Section



120

Incident Energy (MeV)

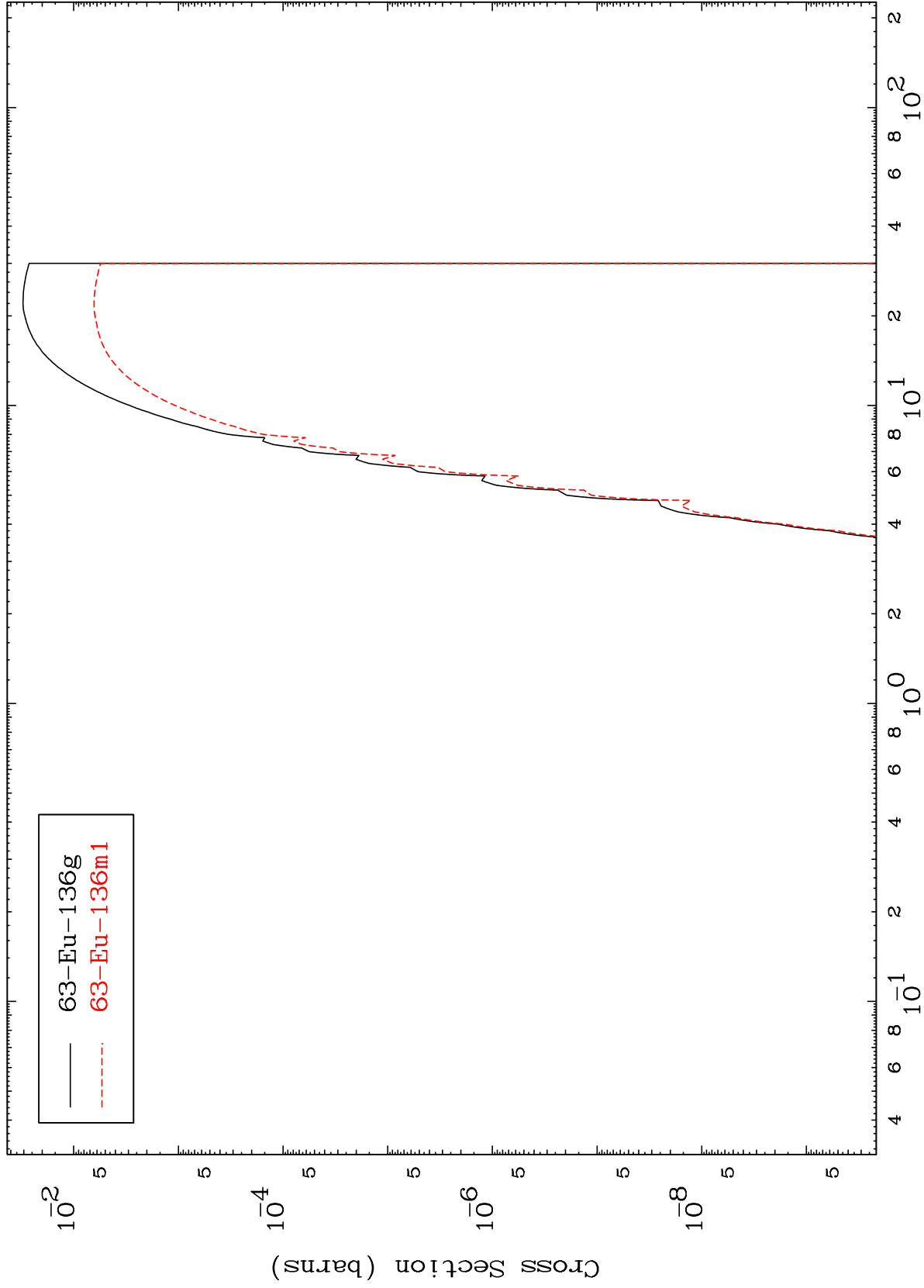
64-Gd-137

MAT 6380

(n,d)

64-Gd-137

Radionuclide Production Cross Section



121

Incident Energy (MeV)

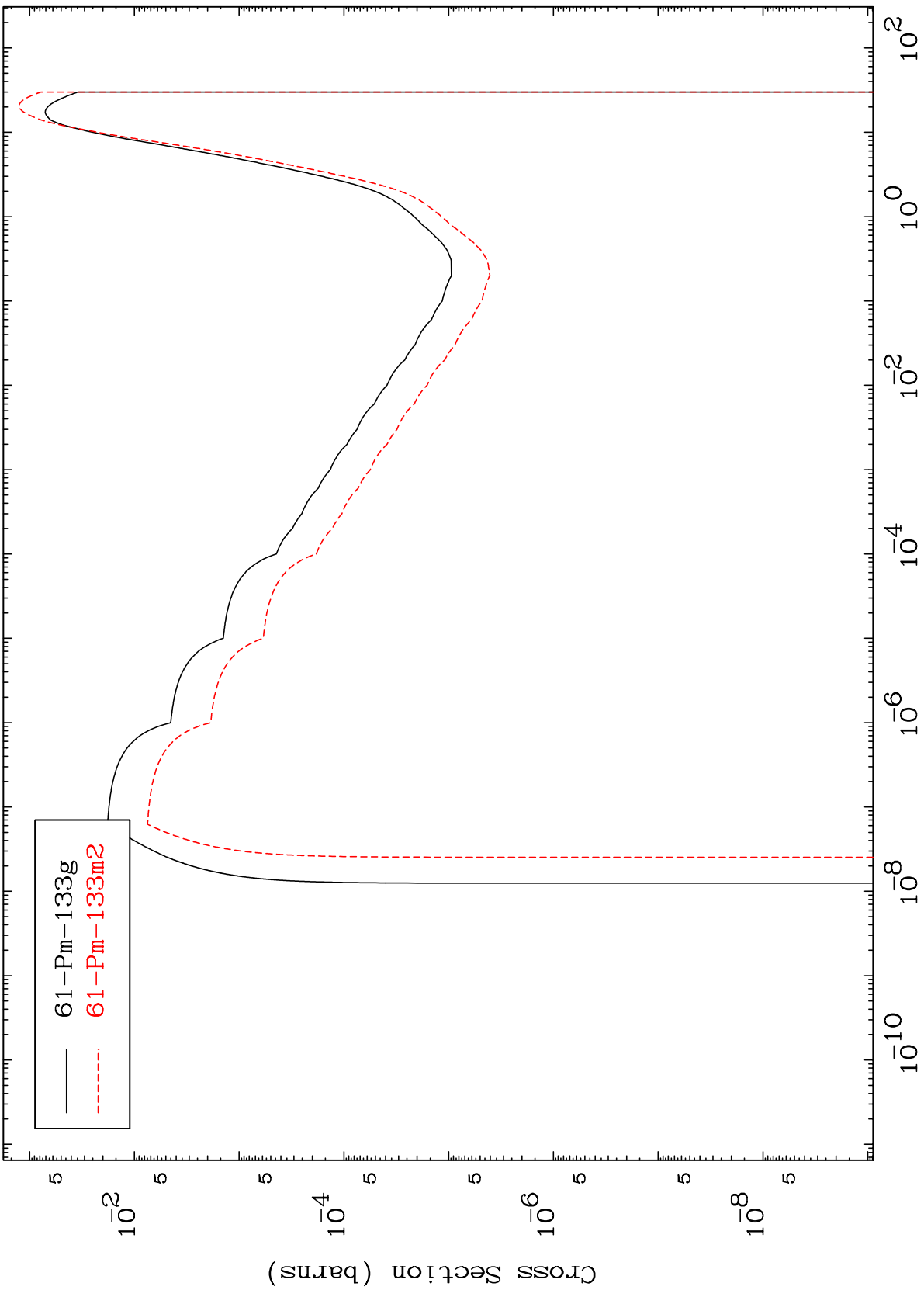
64-Gd-137

MAT 6380

(n,p)  $\alpha$

64-Gd-137

Radionuclide Production Cross Section



61-Pm-133g  
61-Pm-133m2