

Program EVALPLOT  
(Version 2018-1)

by

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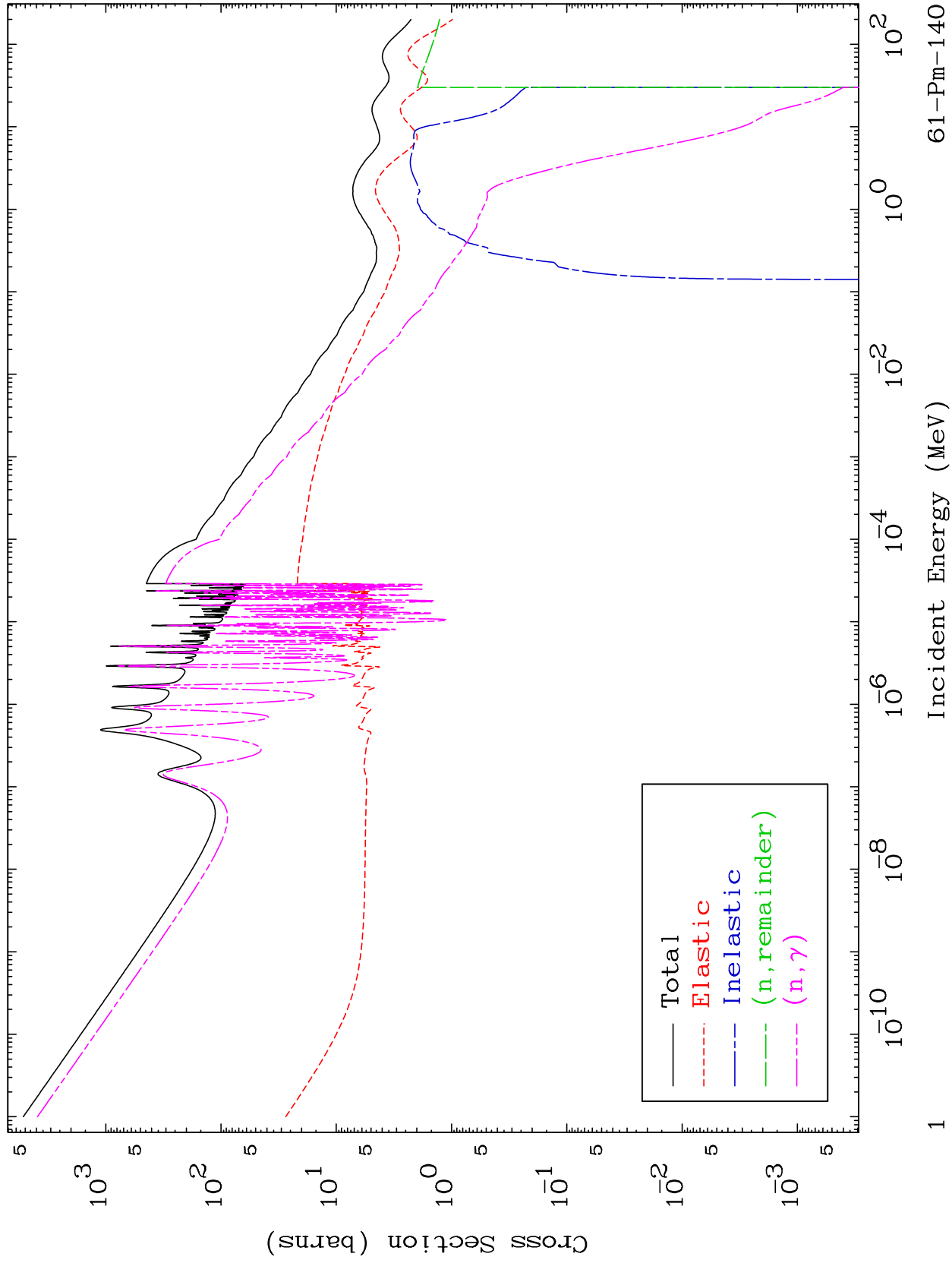
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6128

Major  
293 Kelvin Cross Sections

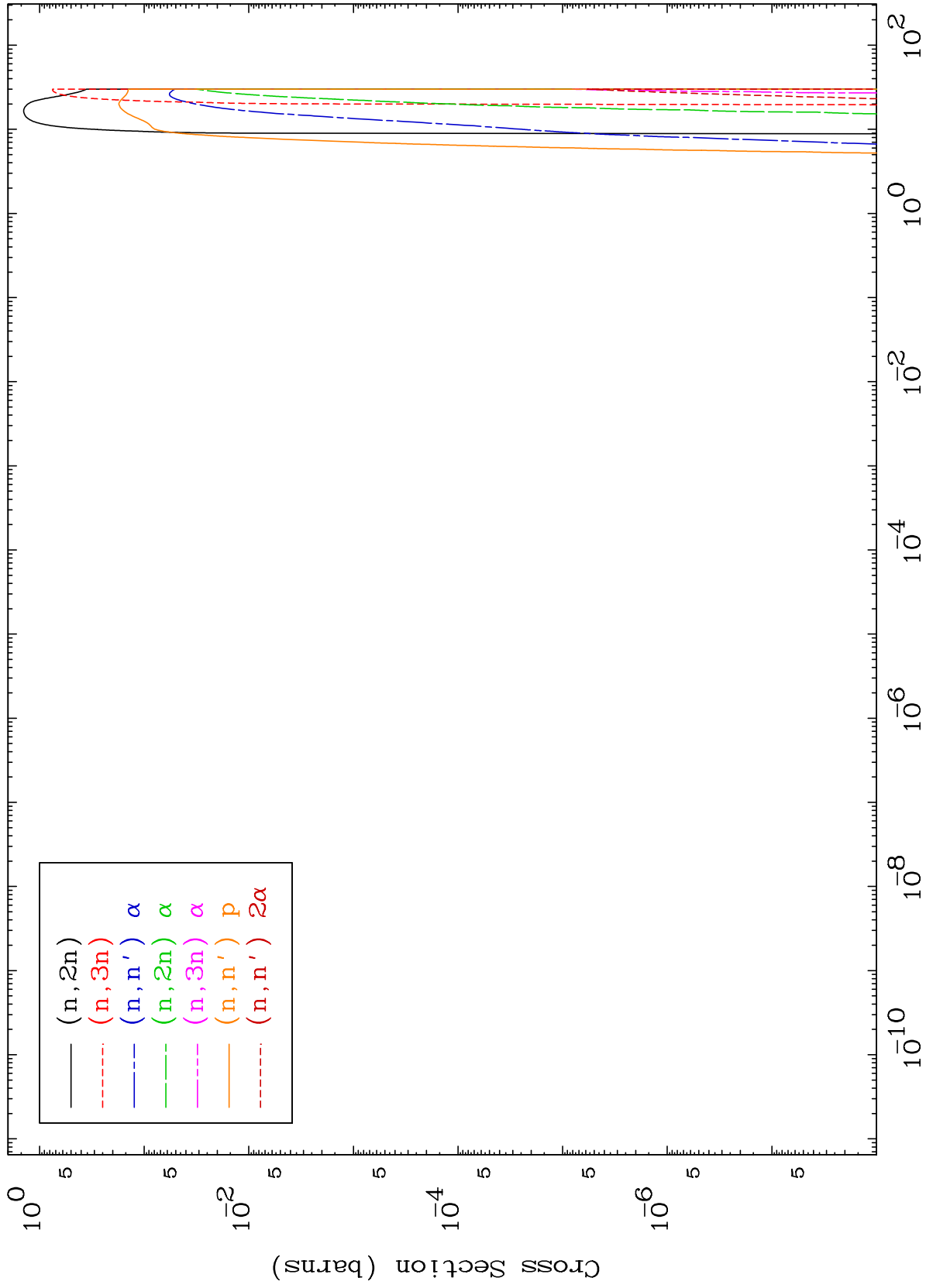
61-Pm-140



MAT 6128

Neutron Production  
293 Kelvin Cross Sections

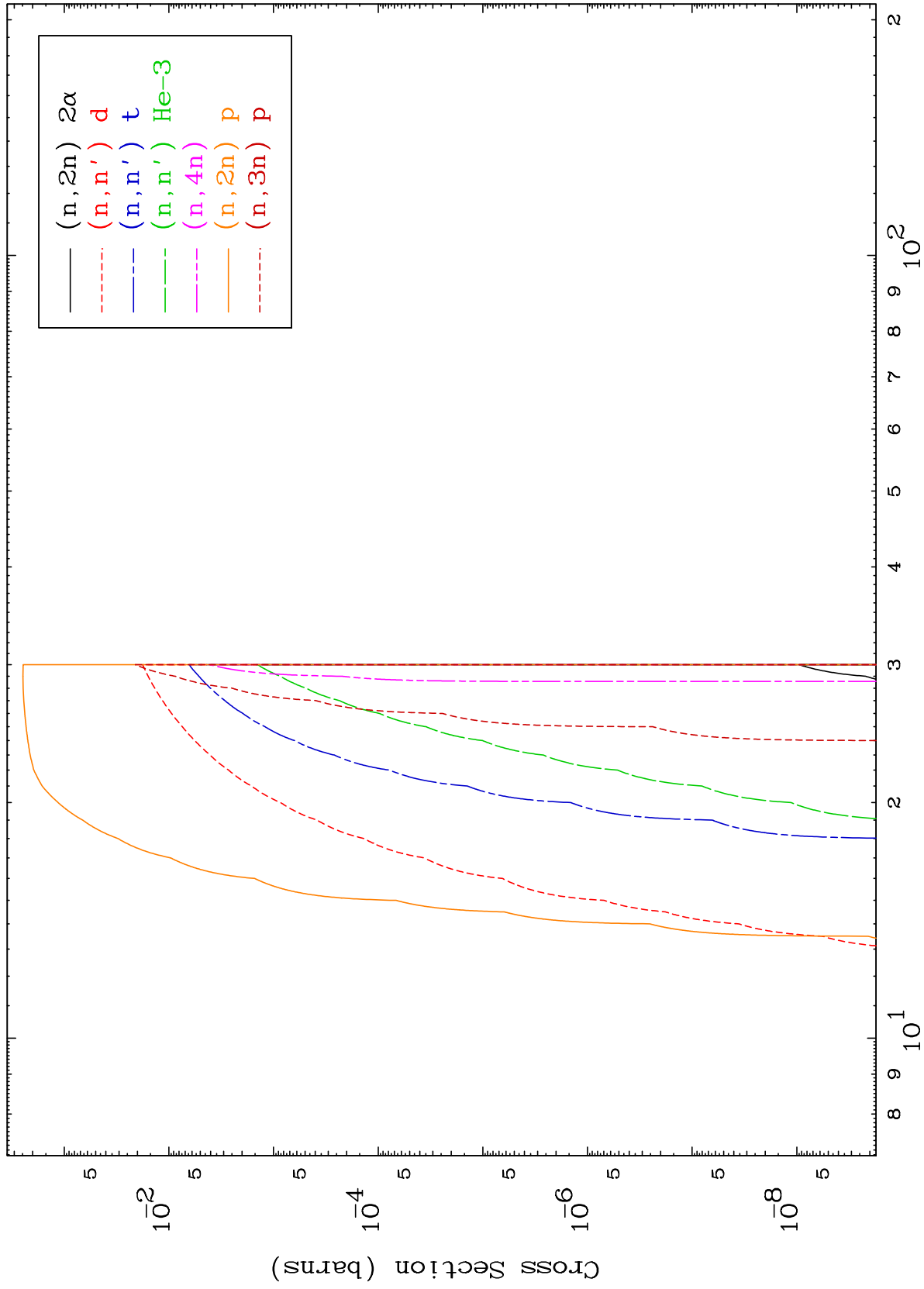
61-Pm-140

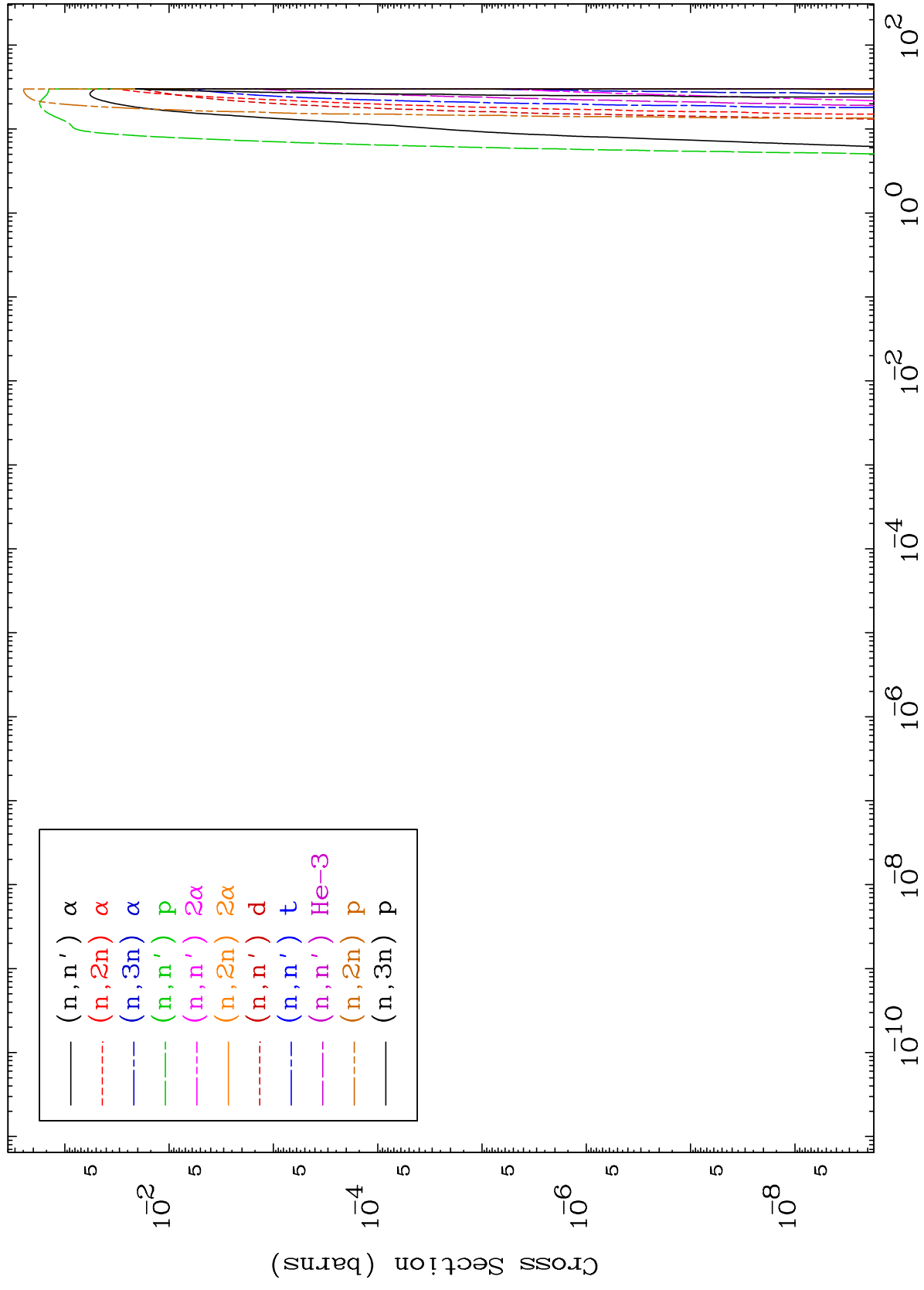


2

Incident Energy (MeV)

61-Pm-140

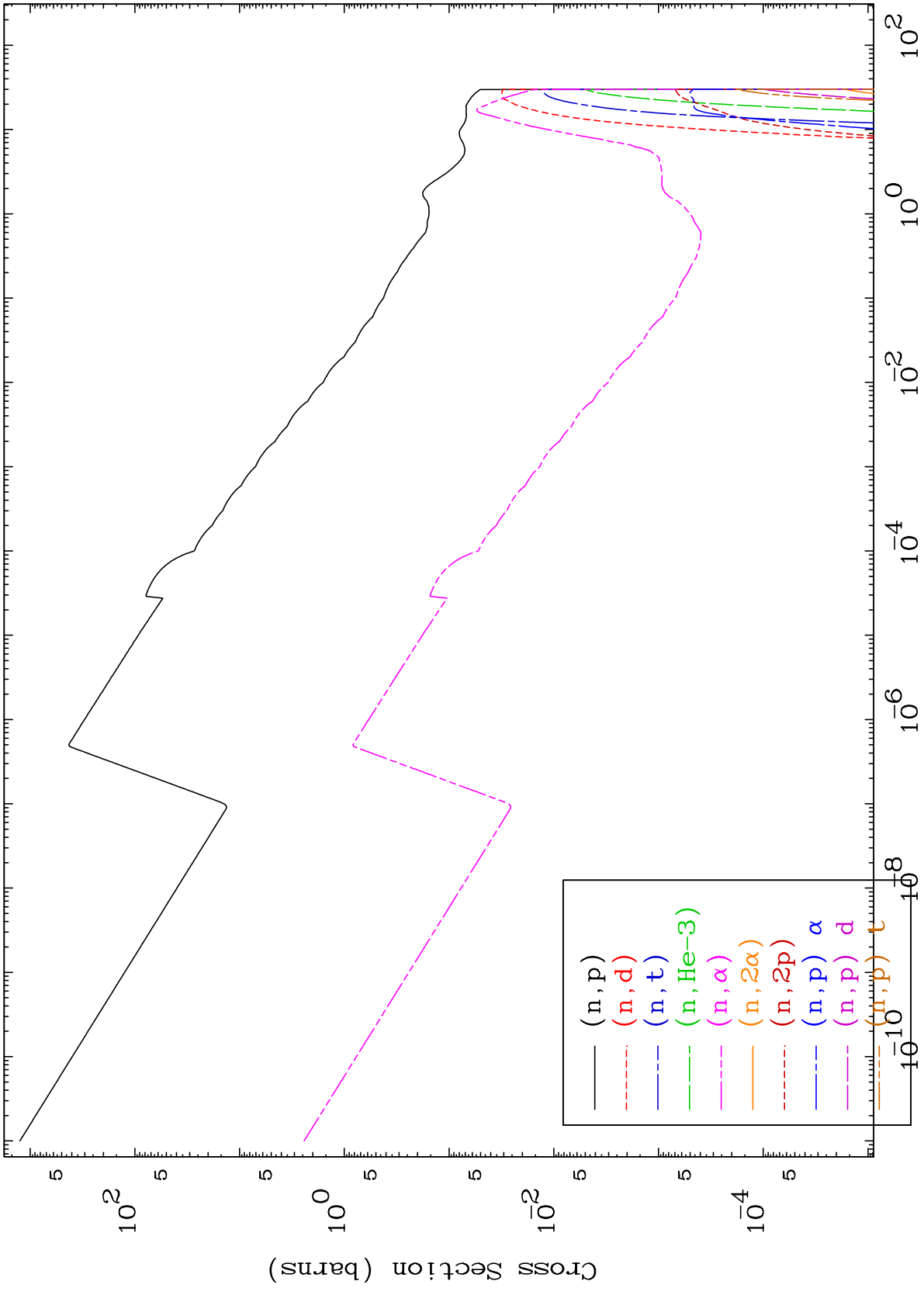




MAT 6128

Charged Particle  
293 Kelvin Cross Sections

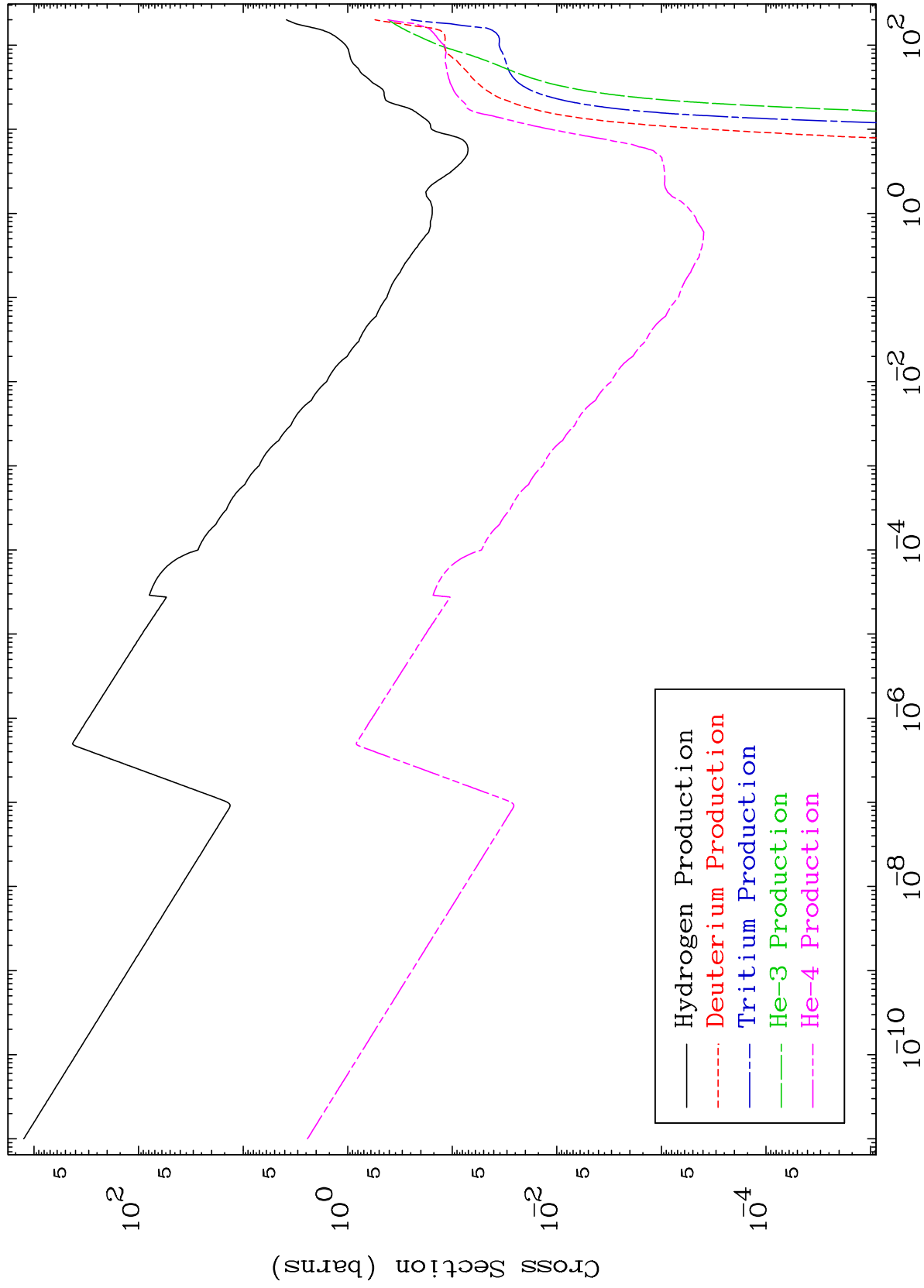
61-Pm-140



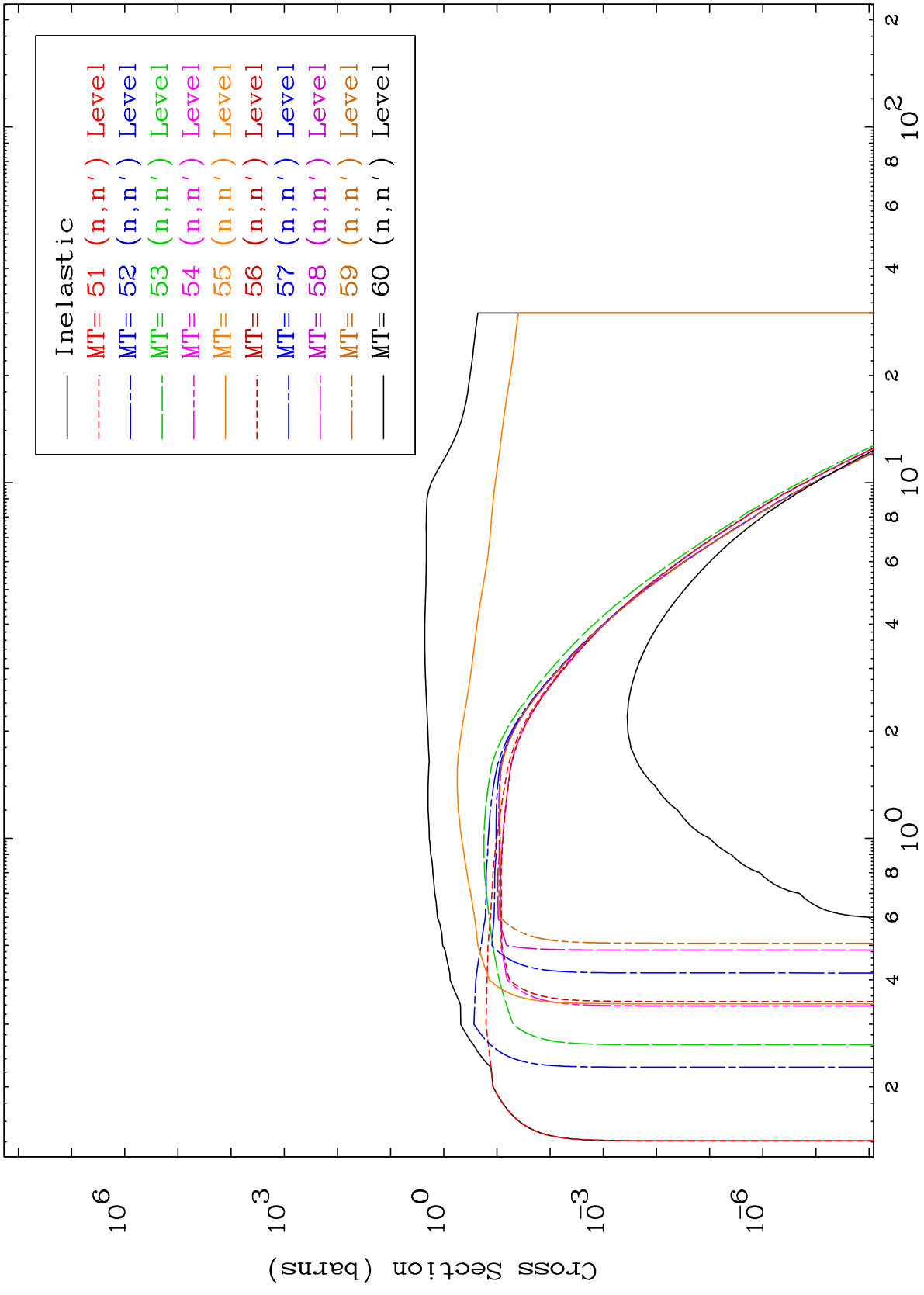
MAT 6128

Particle Production  
293 Kelvin Cross Sections

61-Pm-140



293 Kelvin Cross Sections

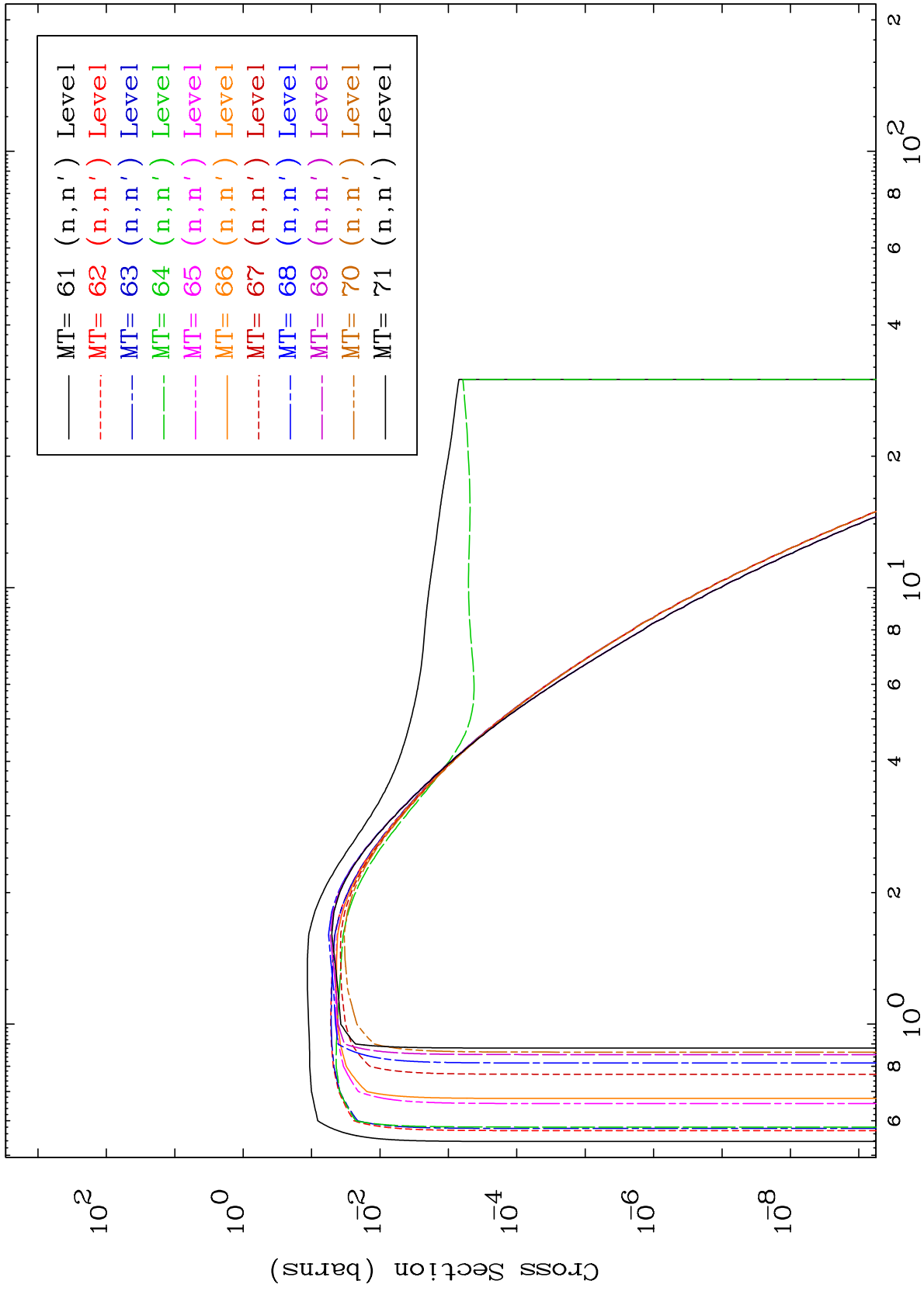




MAT 6128

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-140



8

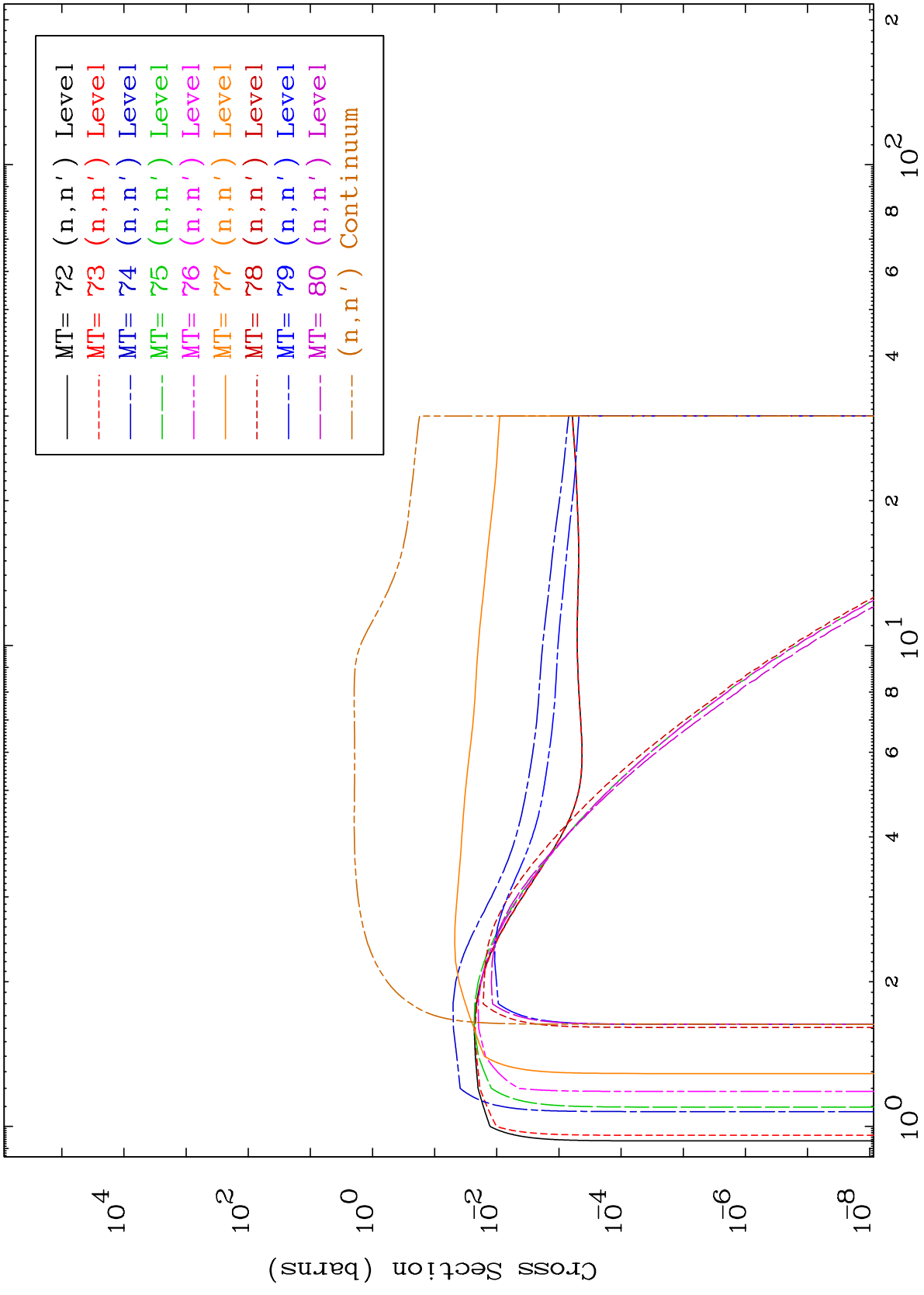
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,n') Level  
293 Kelvin Cross Sections

61-Pm-140



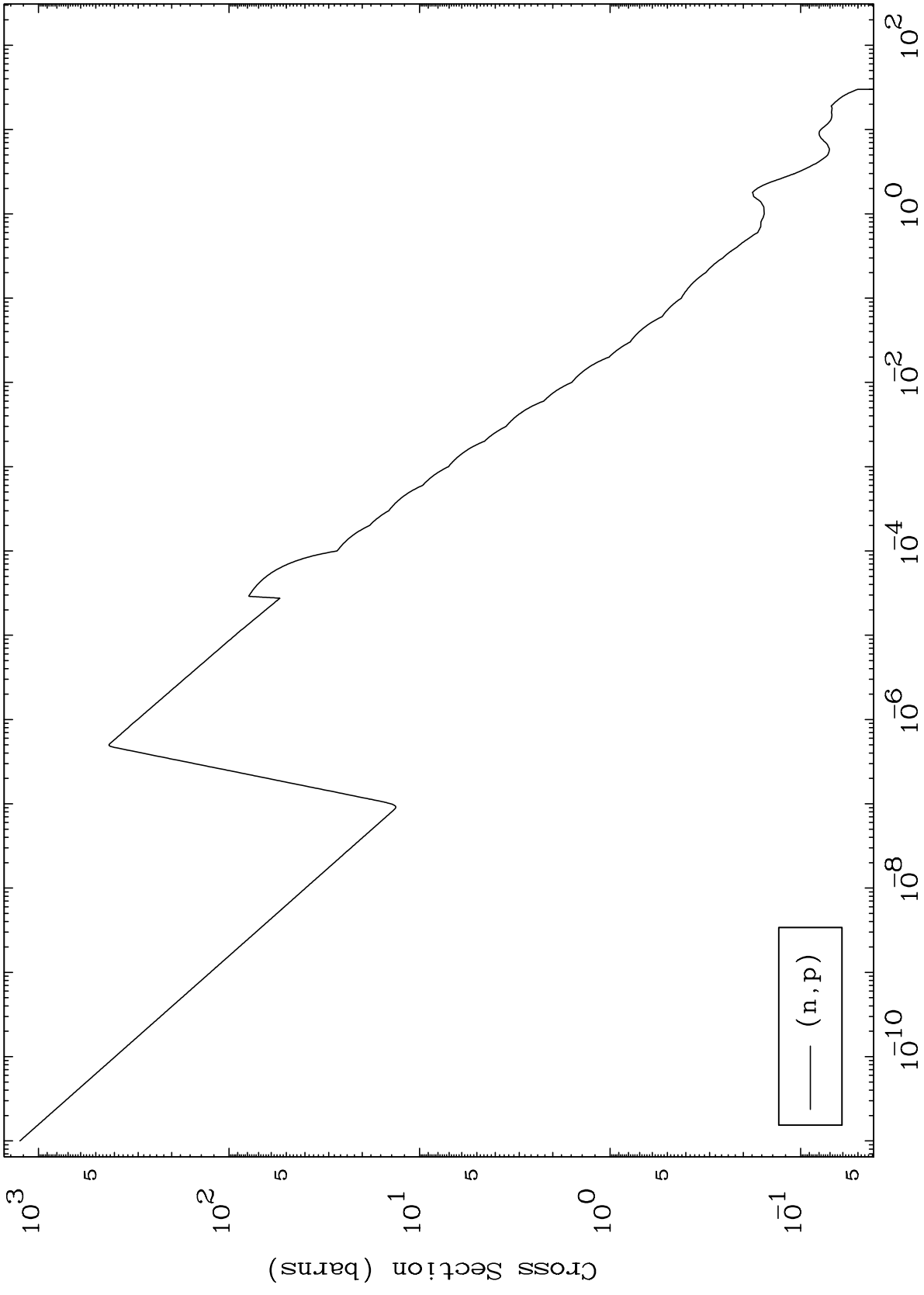
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,p) Levels  
293 Kelvin Cross Sections

61-Pm-140



10

Incident Energy (MeV)

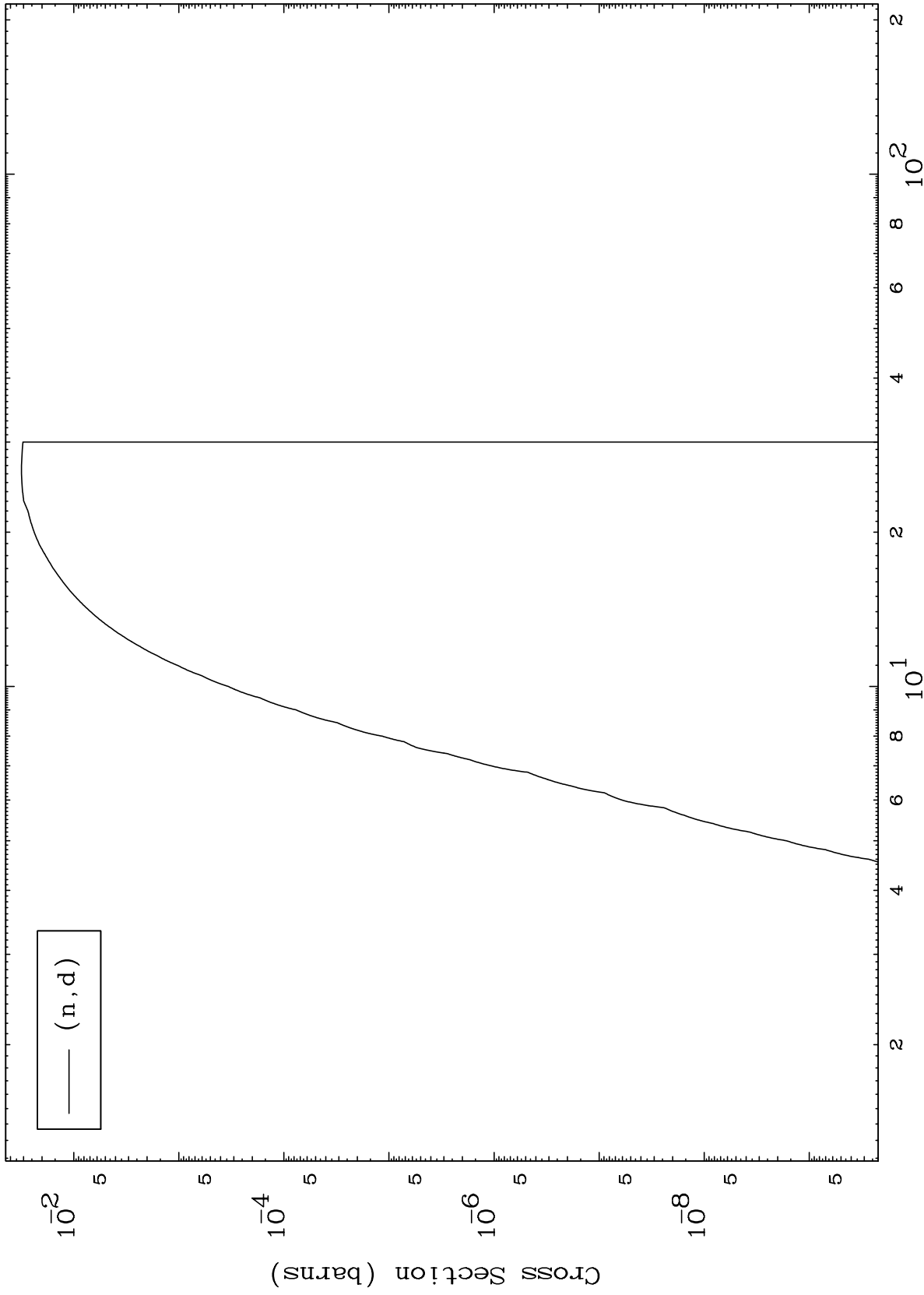
61-Pm-140

— (n, p)

MAT 6128

(n,d) Levels  
293 Kelvin Cross Sections

61-Pm-140



11

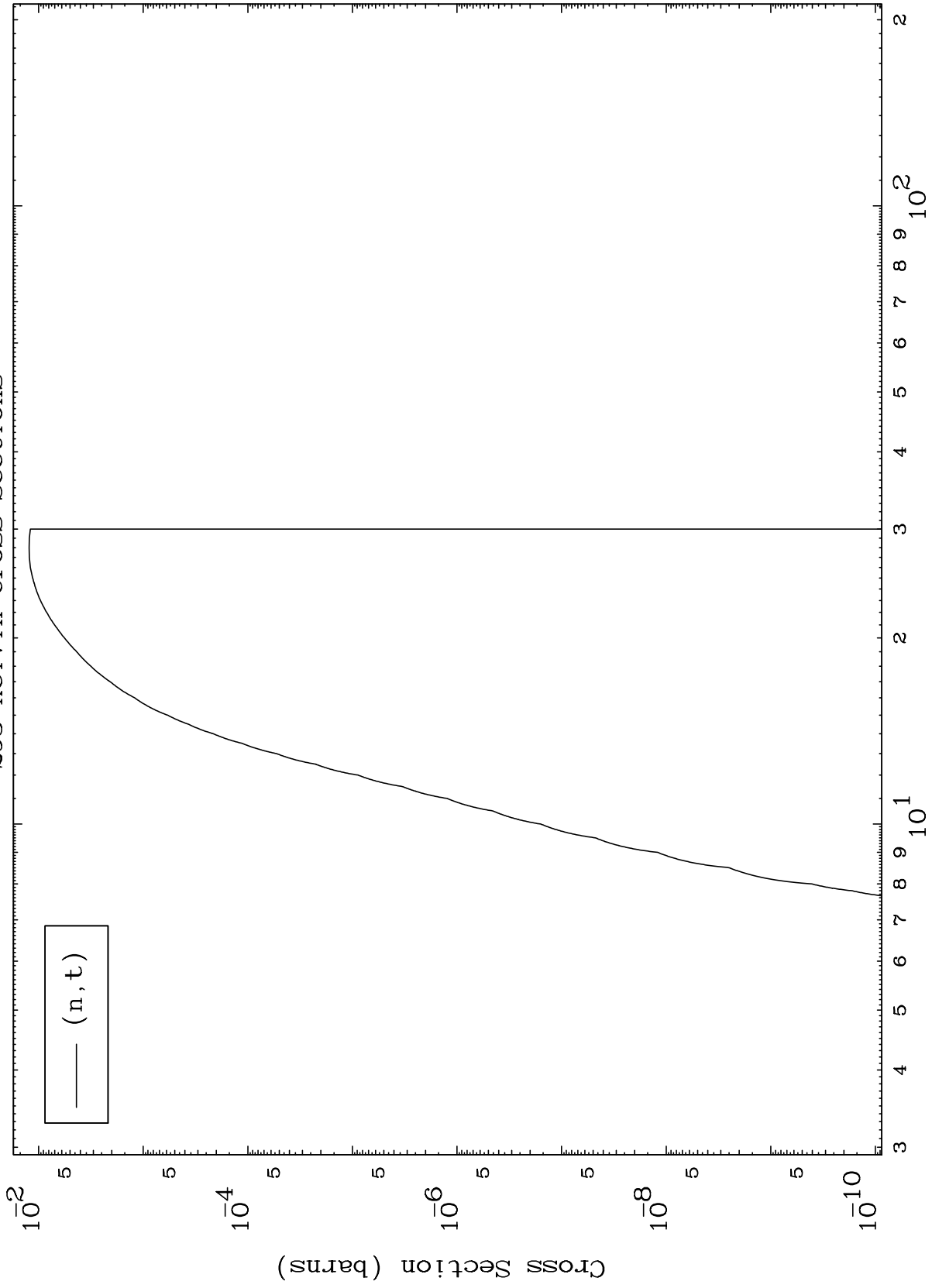
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,t) Levels  
293 Kelvin Cross Sections

61-Pm-140



12

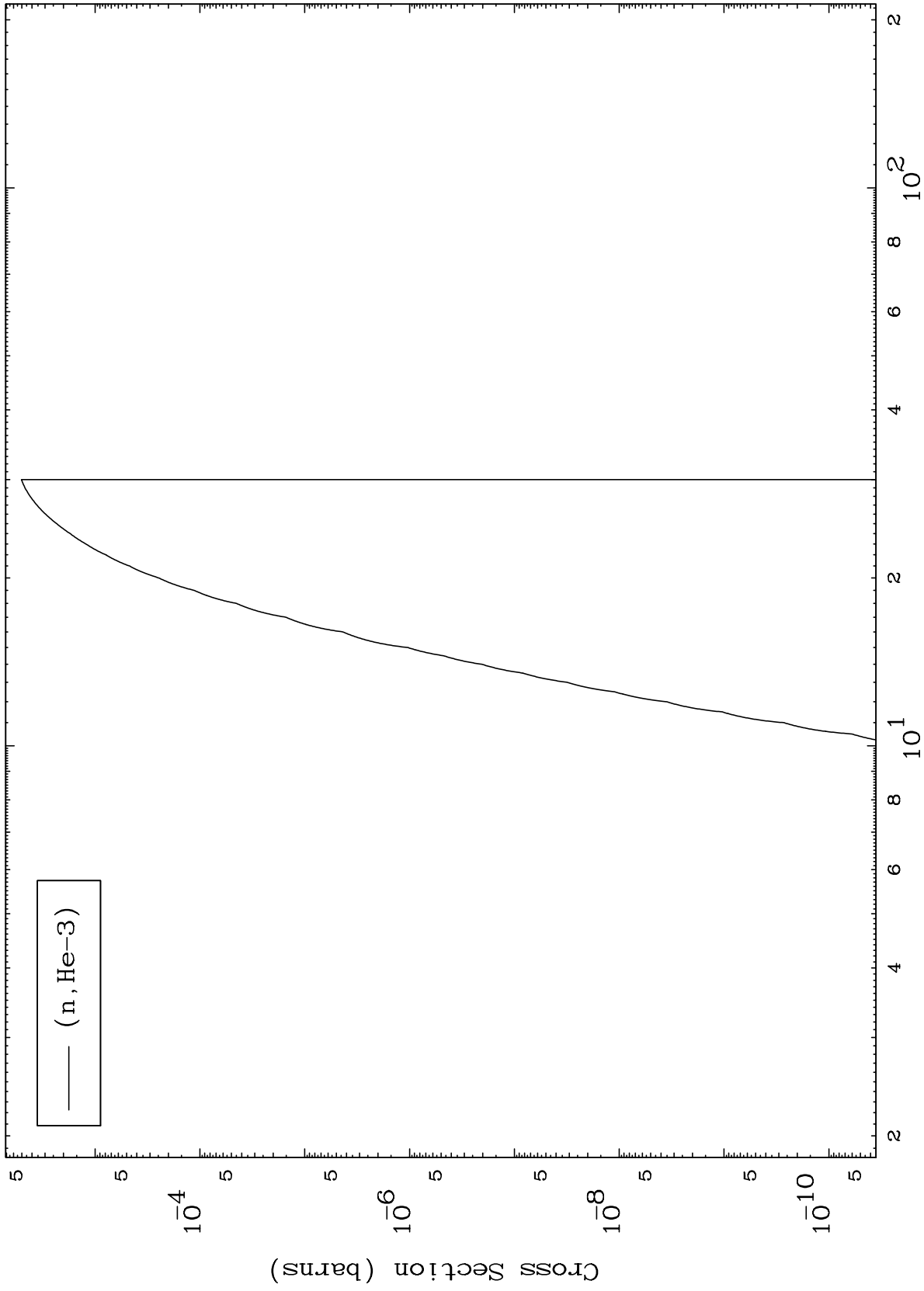
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,He3) Levels  
293 Kelvin Cross Sections

61-Pm-140



13

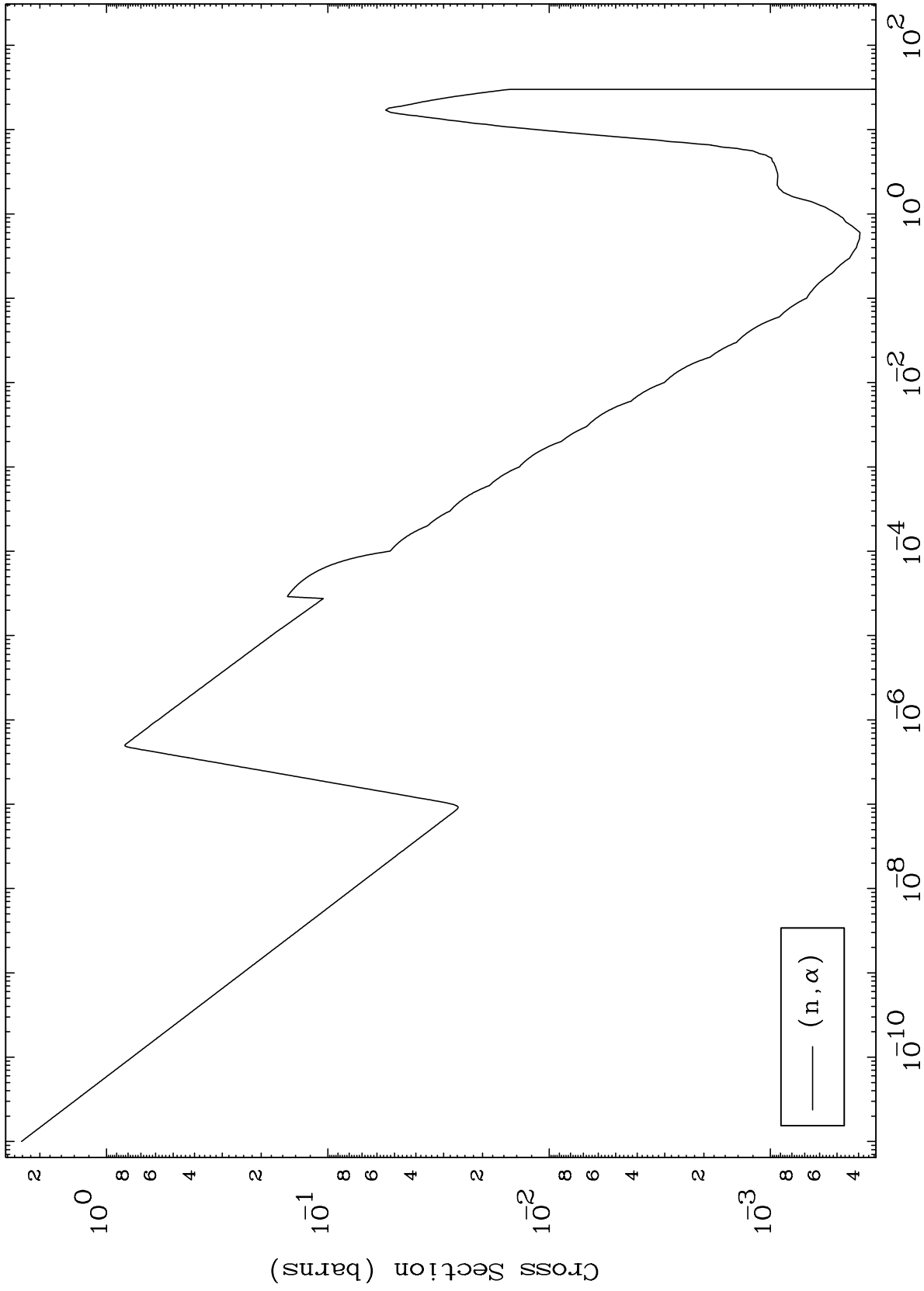
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,α) Levels  
293 Kelvin Cross Sections

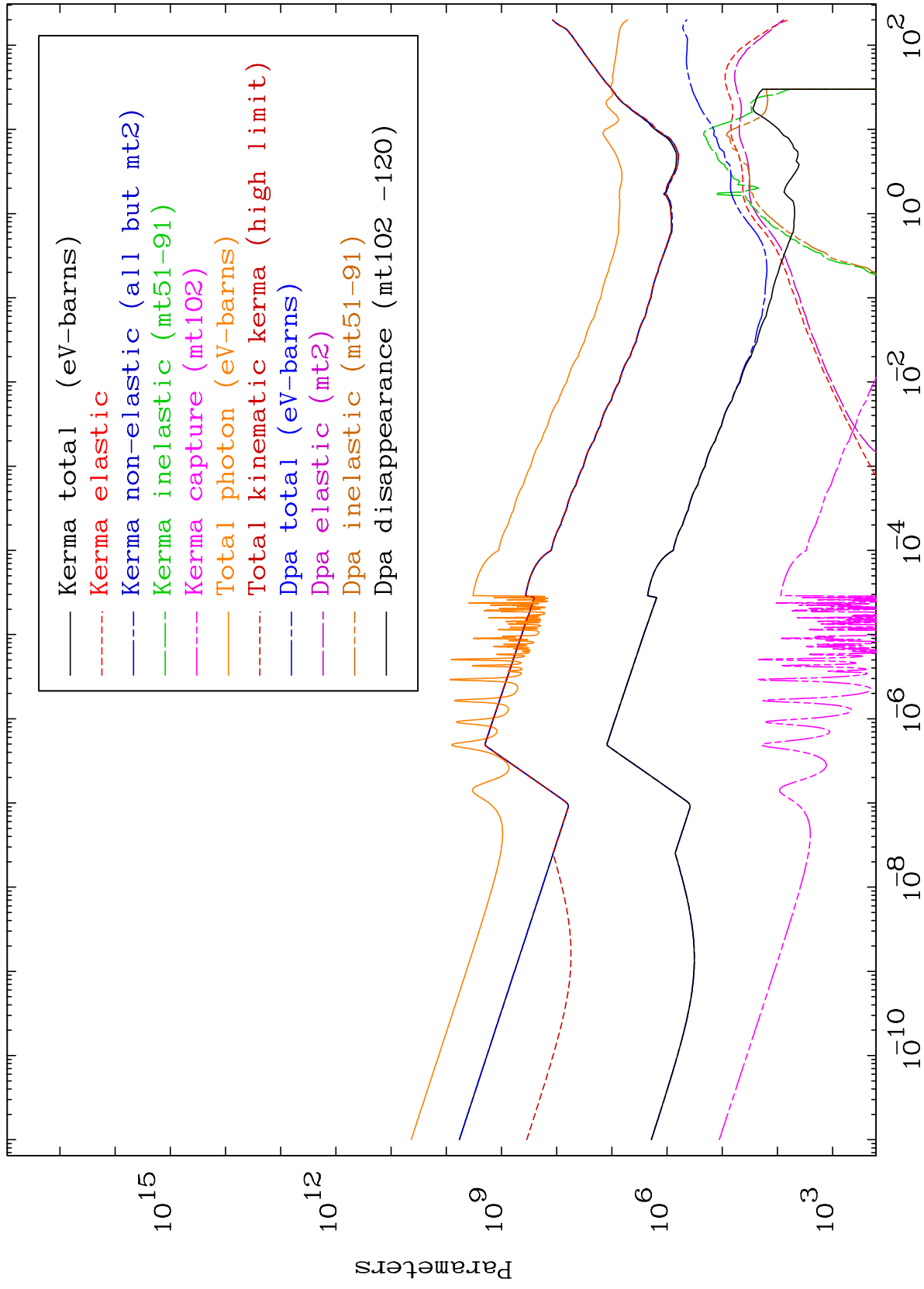
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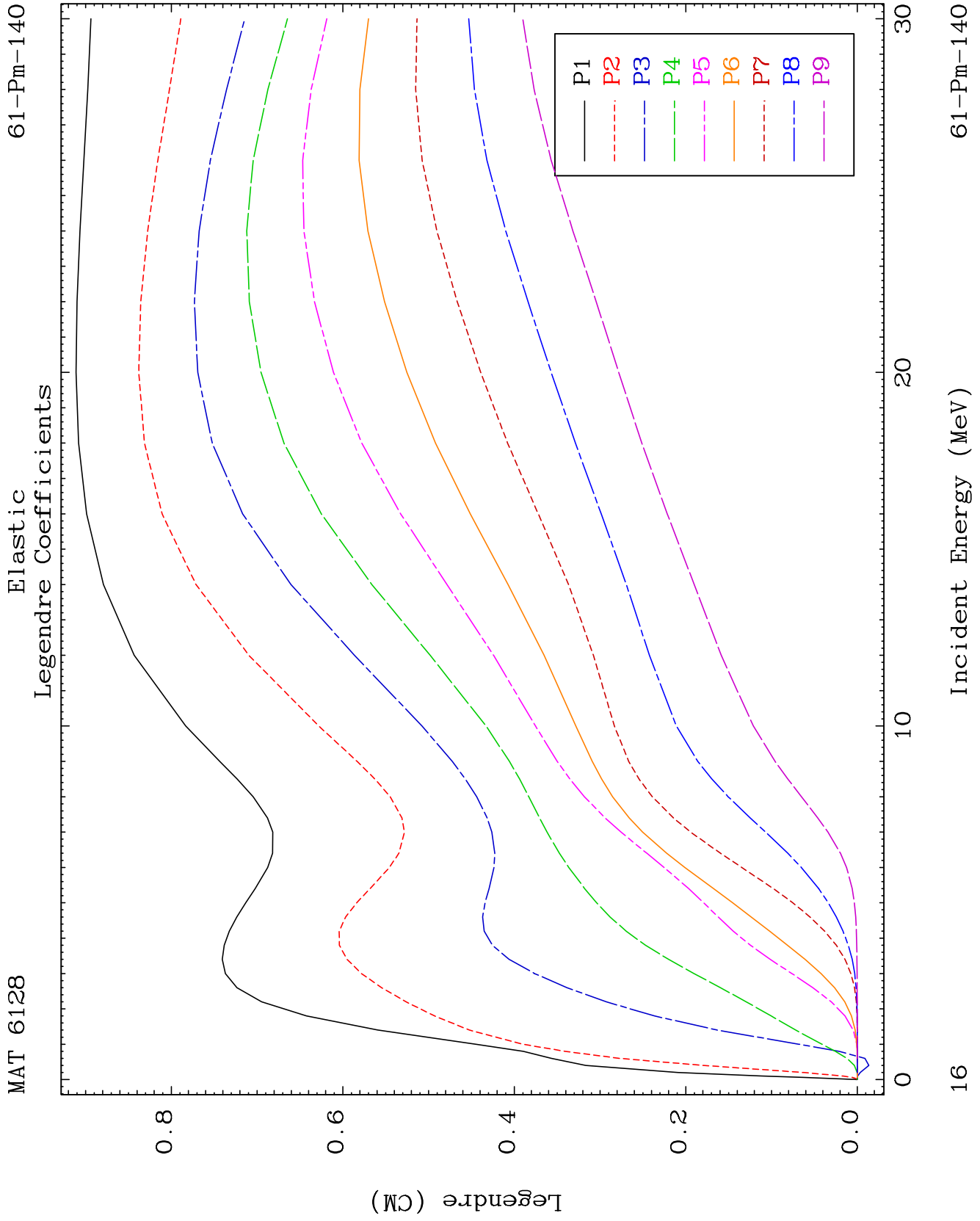
14

Incident Energy (MeV)

61-Pm-140



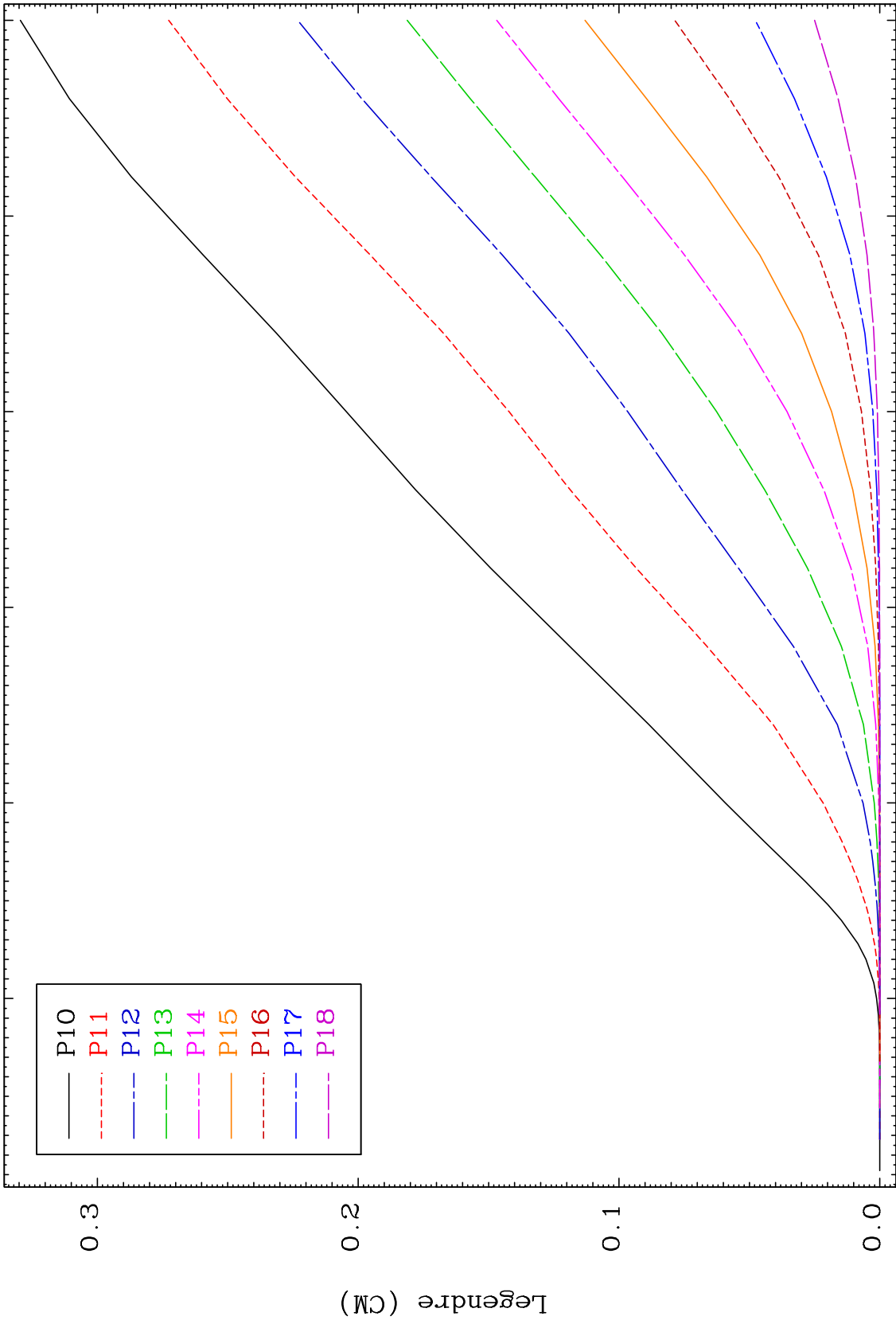




MAT 6128

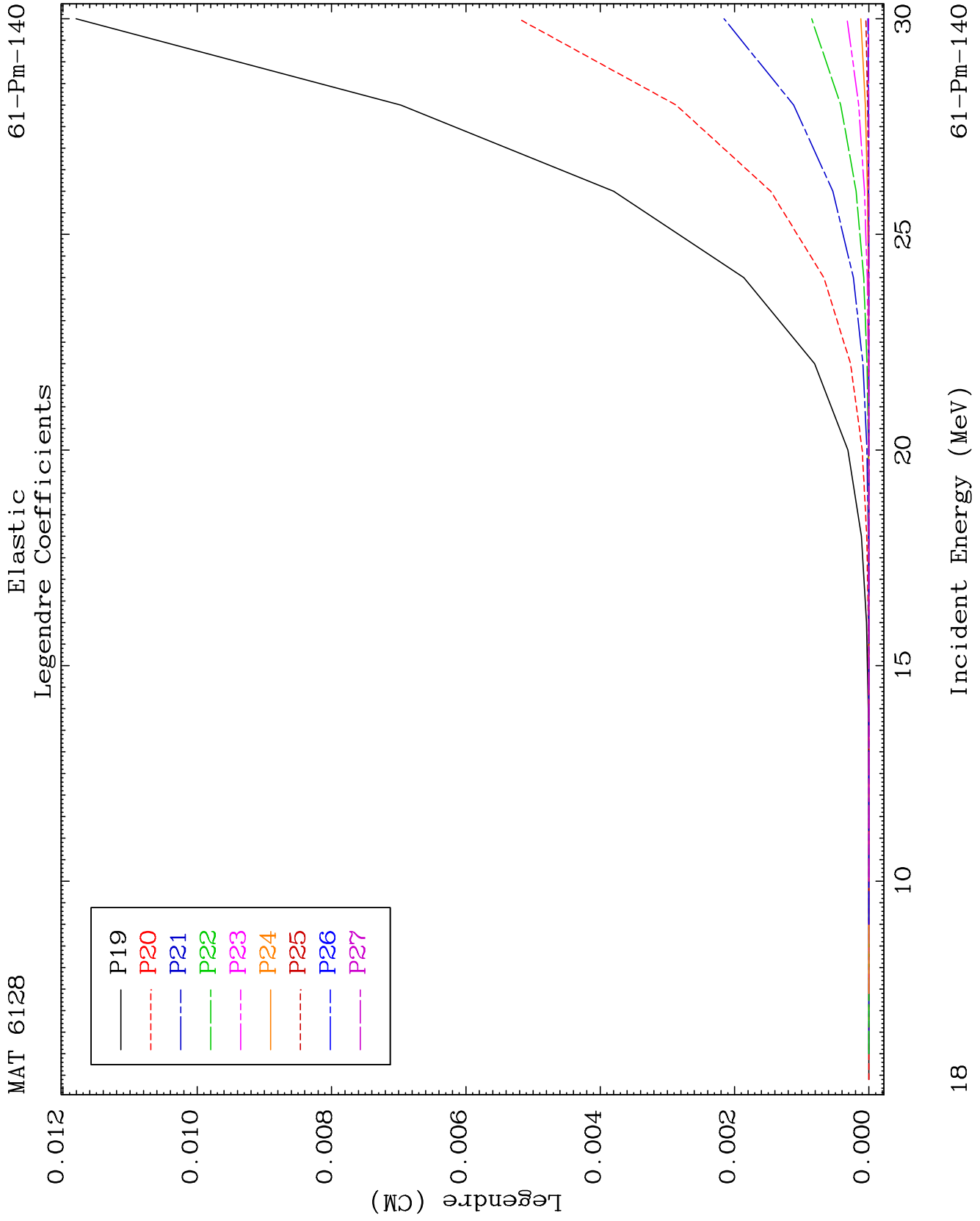
Elastic Legendre Coefficients

61-Pm-140



17

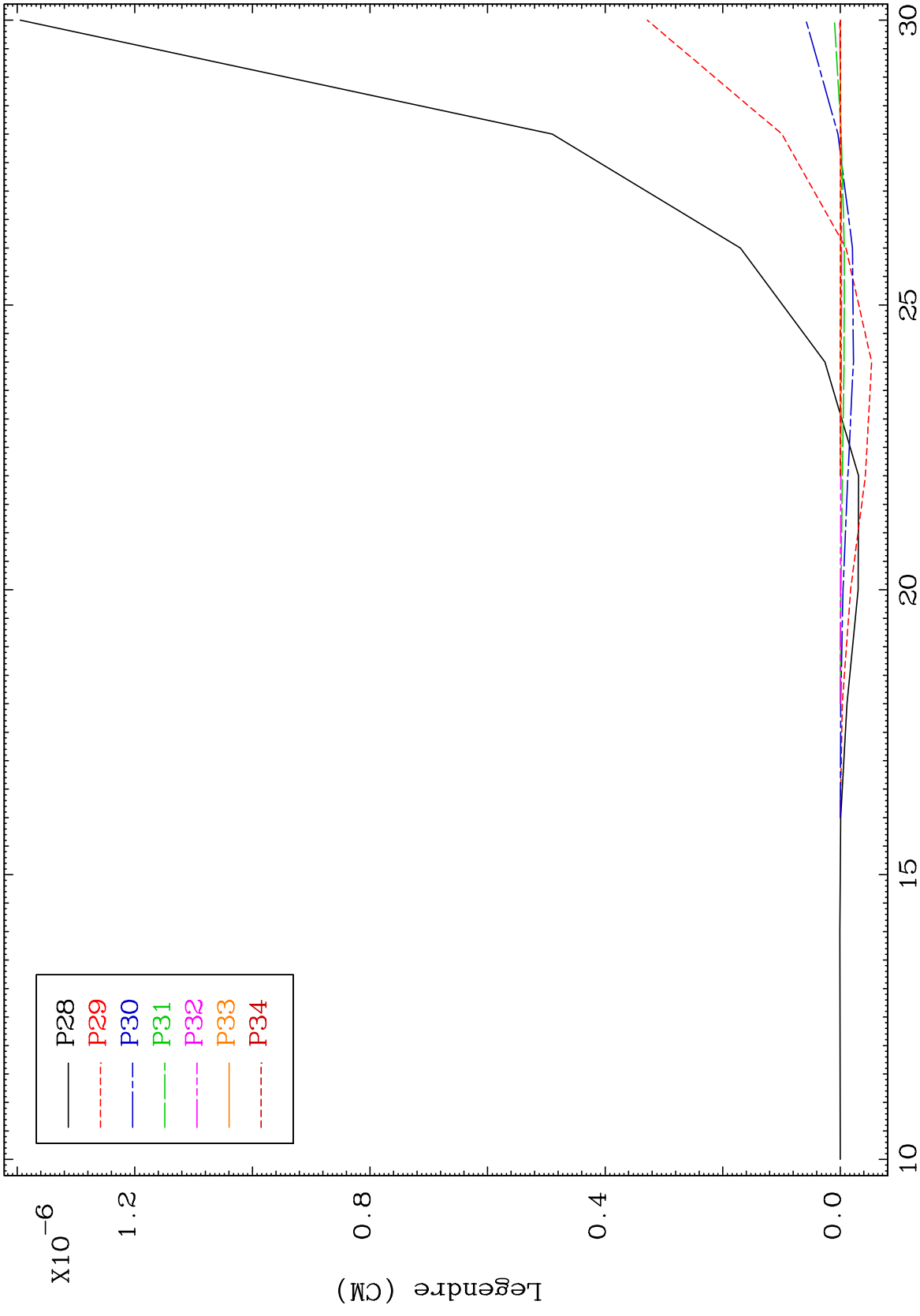
61-Pm-140



MAT 6128

Elastic Legendre Coefficients

61-Pm-140

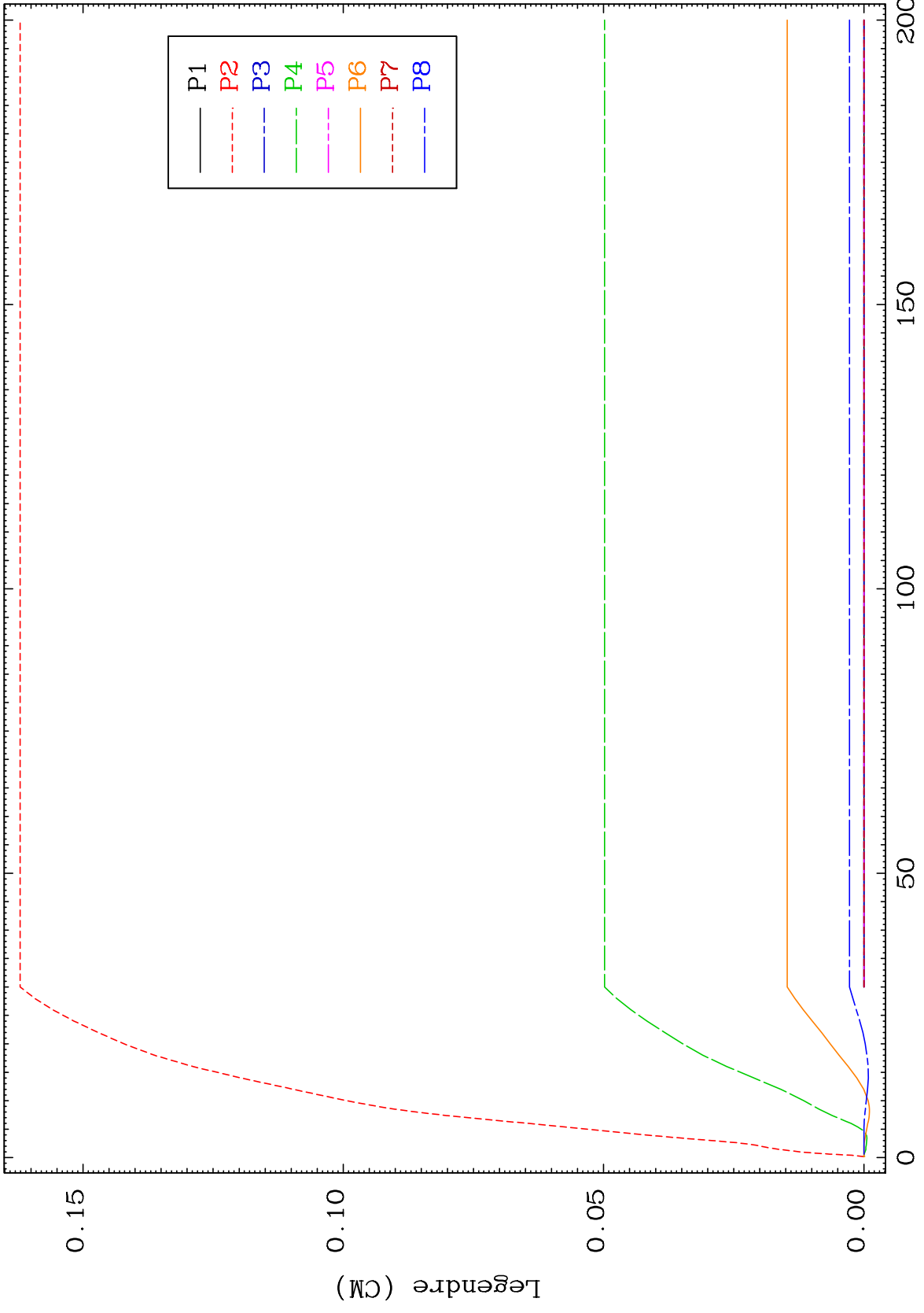


19

Incident Energy (MeV)

61-Pm-140

MAT 6128 MT= 51 (n,n') Level Legendre Coefficients 61-Pm-140

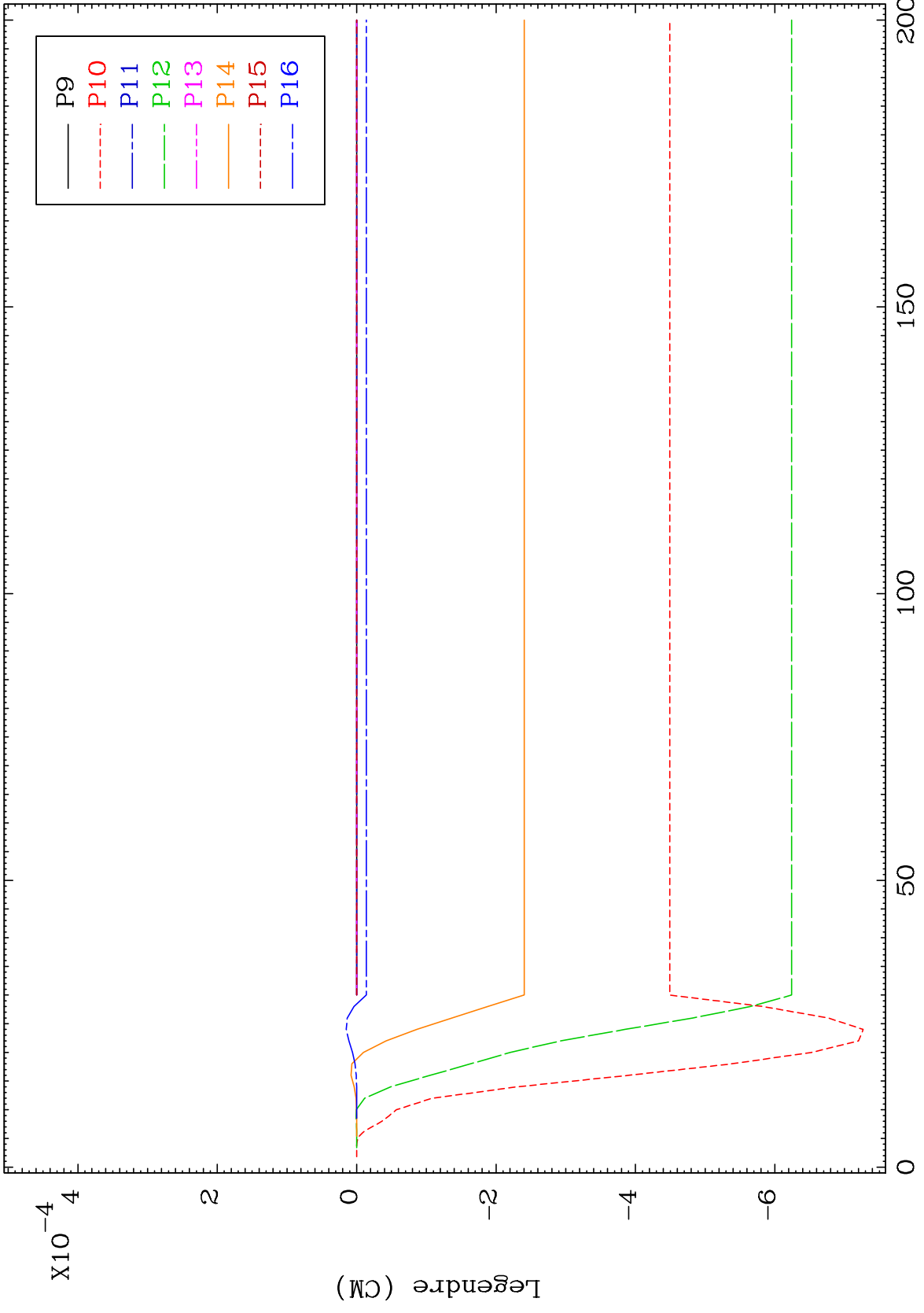


Legendre (CM) Incident Energy (MeV) 61-Pm-140

MAT 6128

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

61-Pm-140

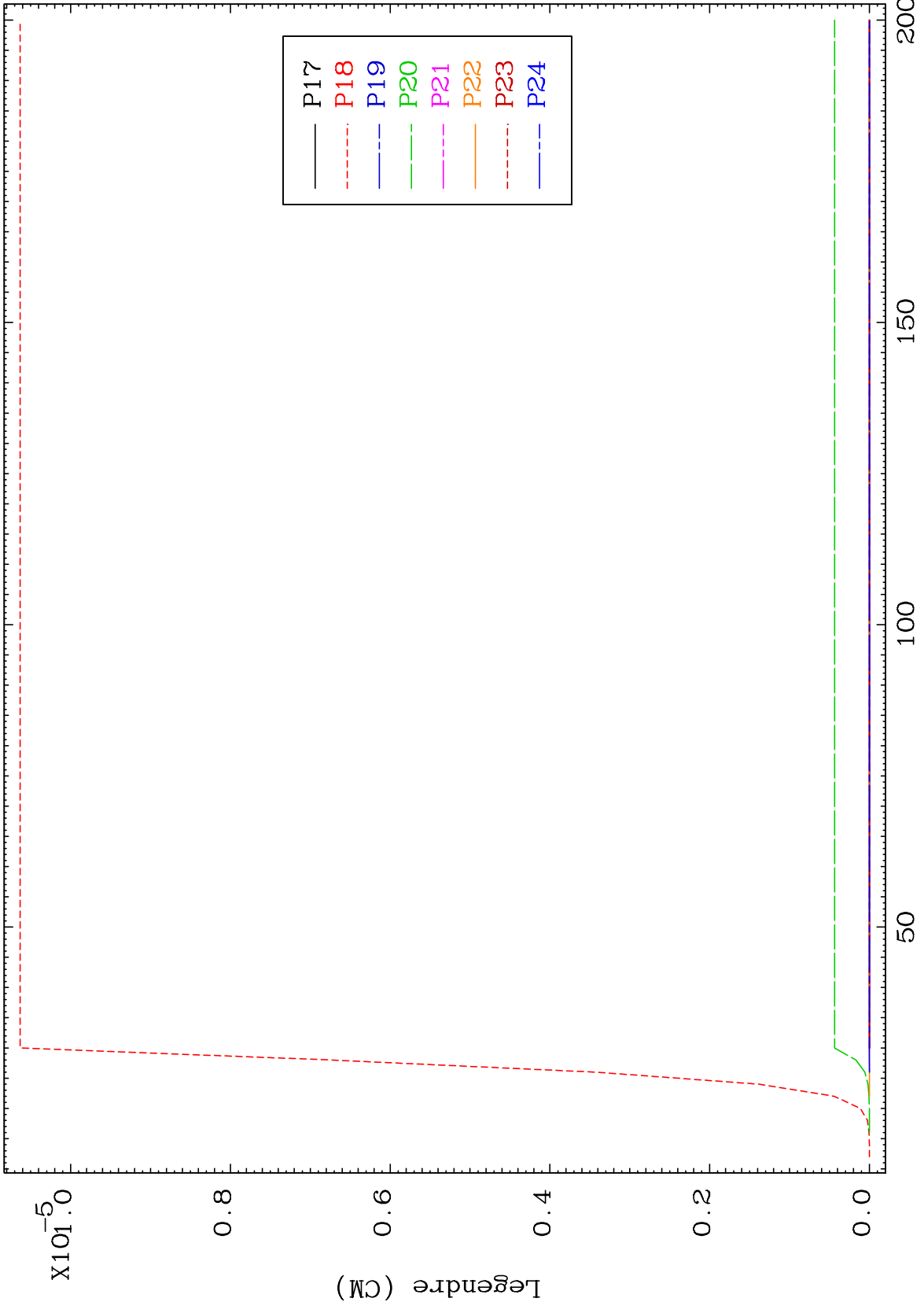


21

Incident Energy (MeV)

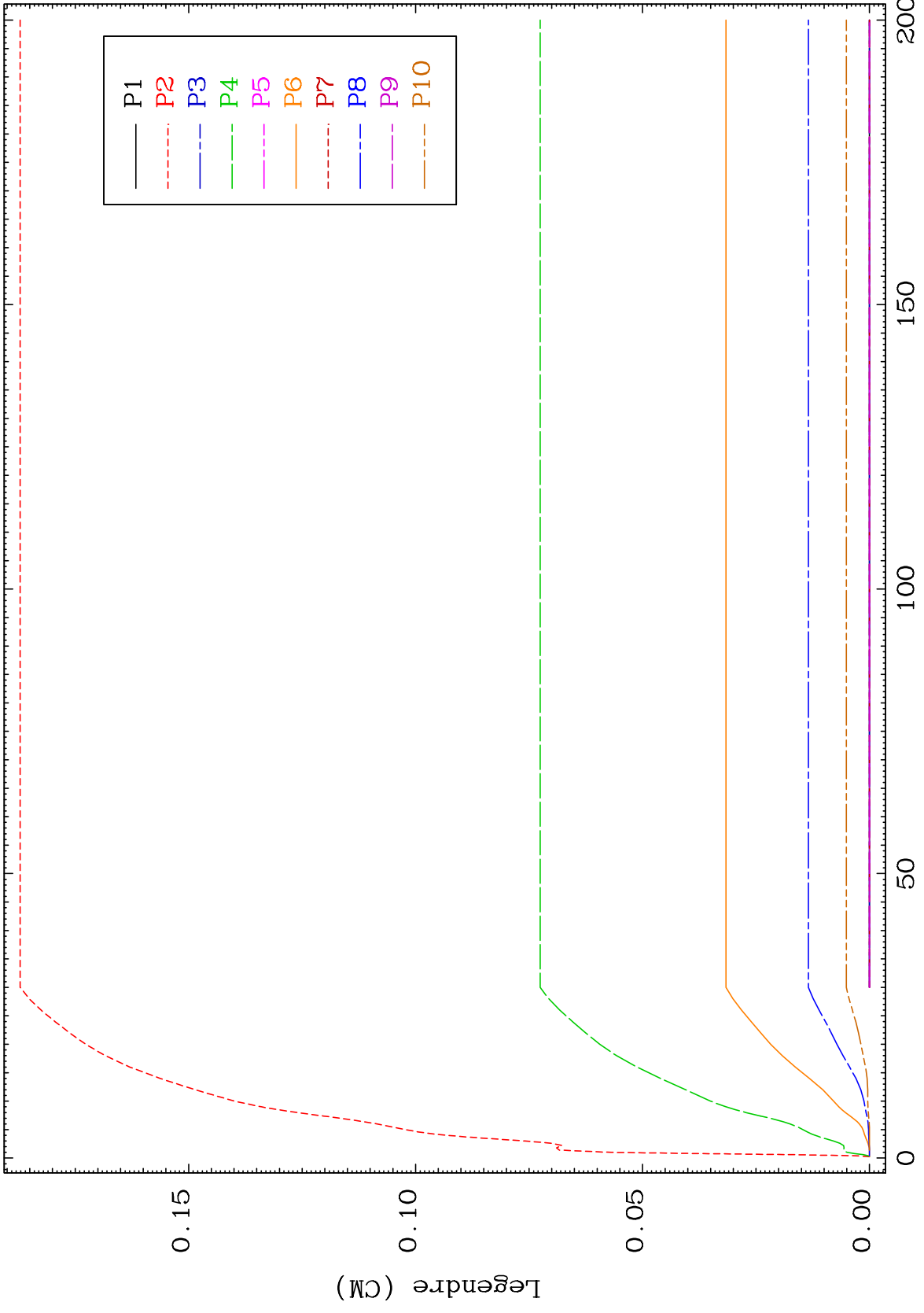
61-Pm-140

MAT 6128 MT= 51 (n,n') Level Legendre Coefficients 61-Pm-140



22 Incident Energy (MeV) 61-Pm-140

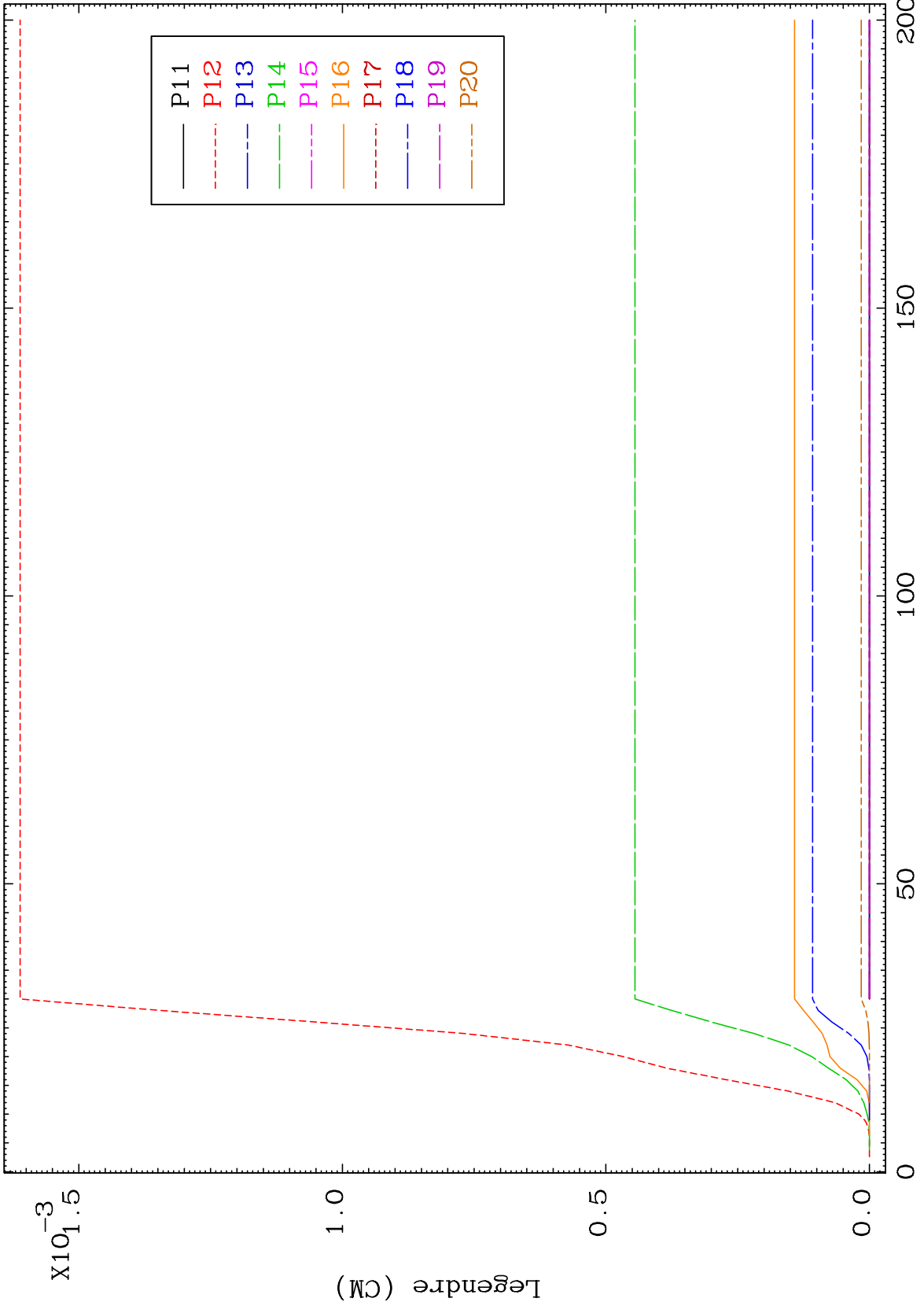
MAT 6128 MT= 52 (n,n') Level Legendre Coefficients 61-Pm-140



23 61-Pm-140

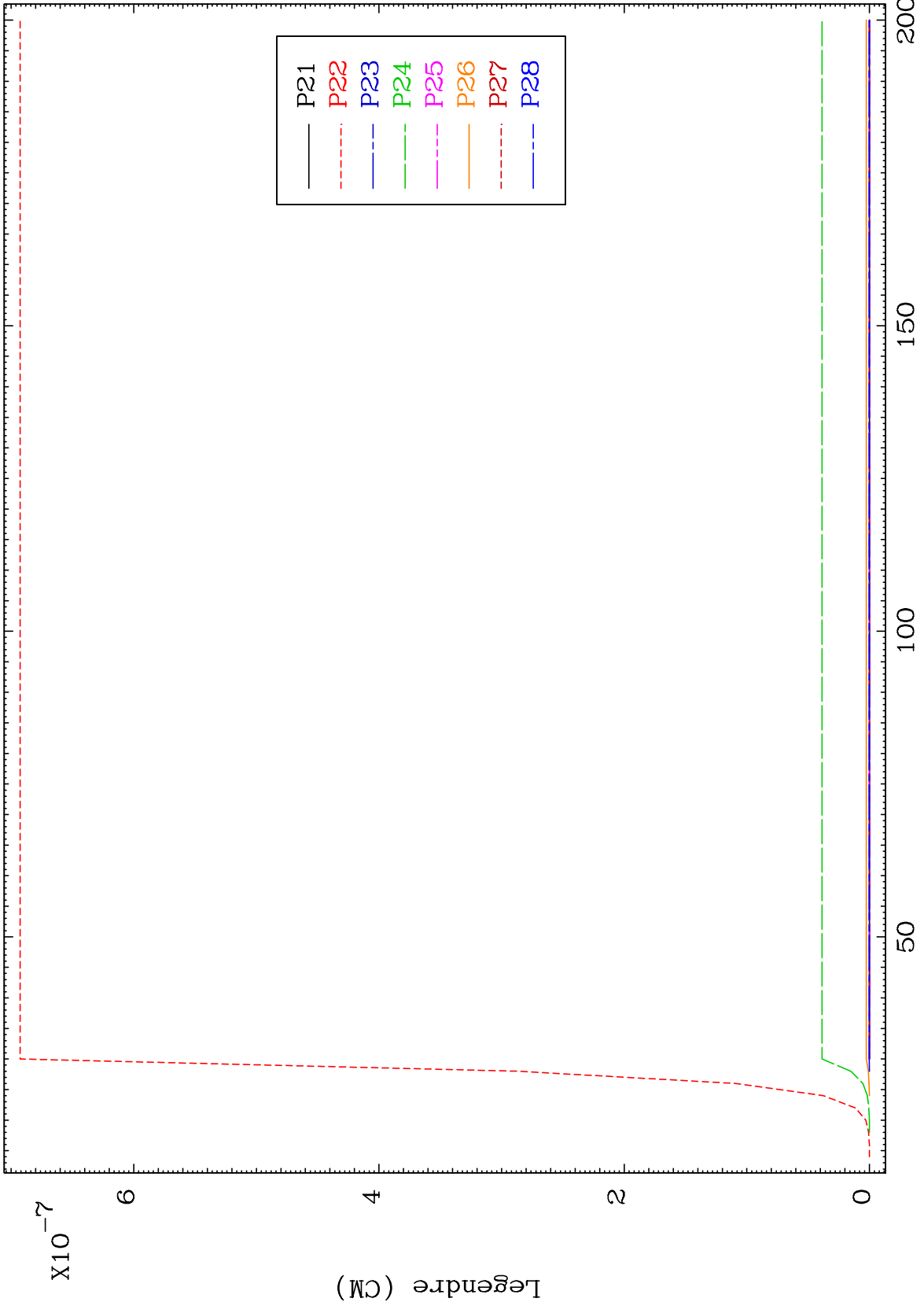


MAT 6128 MT= 52 (n,n') Level Legendre Coefficients 61-Pm-140



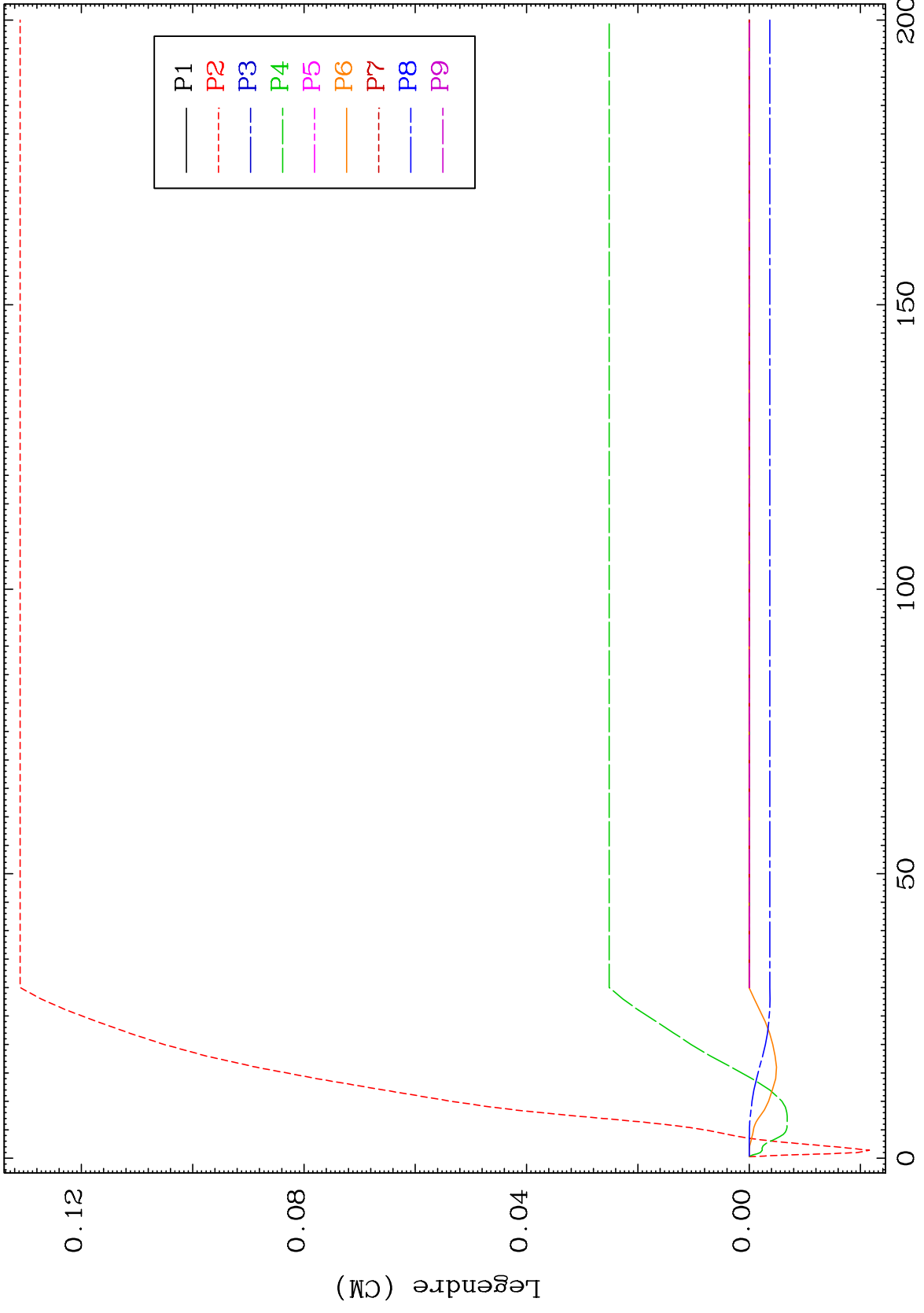
24 61-Pm-140

MAT 6128 MT= 52 (n,n') Level Legendre Coefficients 61-Pm-140



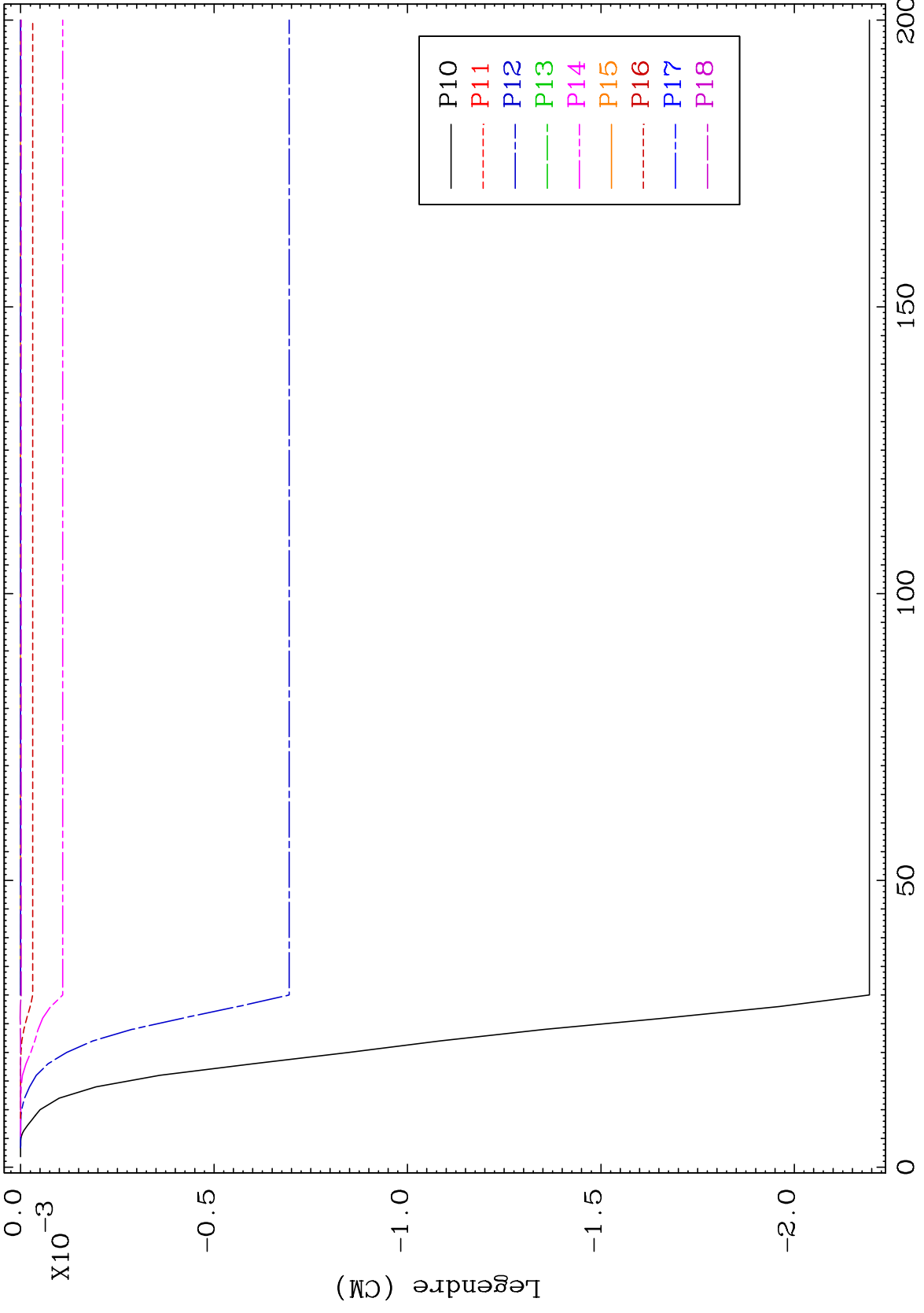
25 50 100 150 200 61-Pm-140

MAT 6128 MT= 53 (n,n') Level Legendre Coefficients 61-Pm-140



26 Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 53 (n,n') Level Legendre Coefficients 61-Pm-140

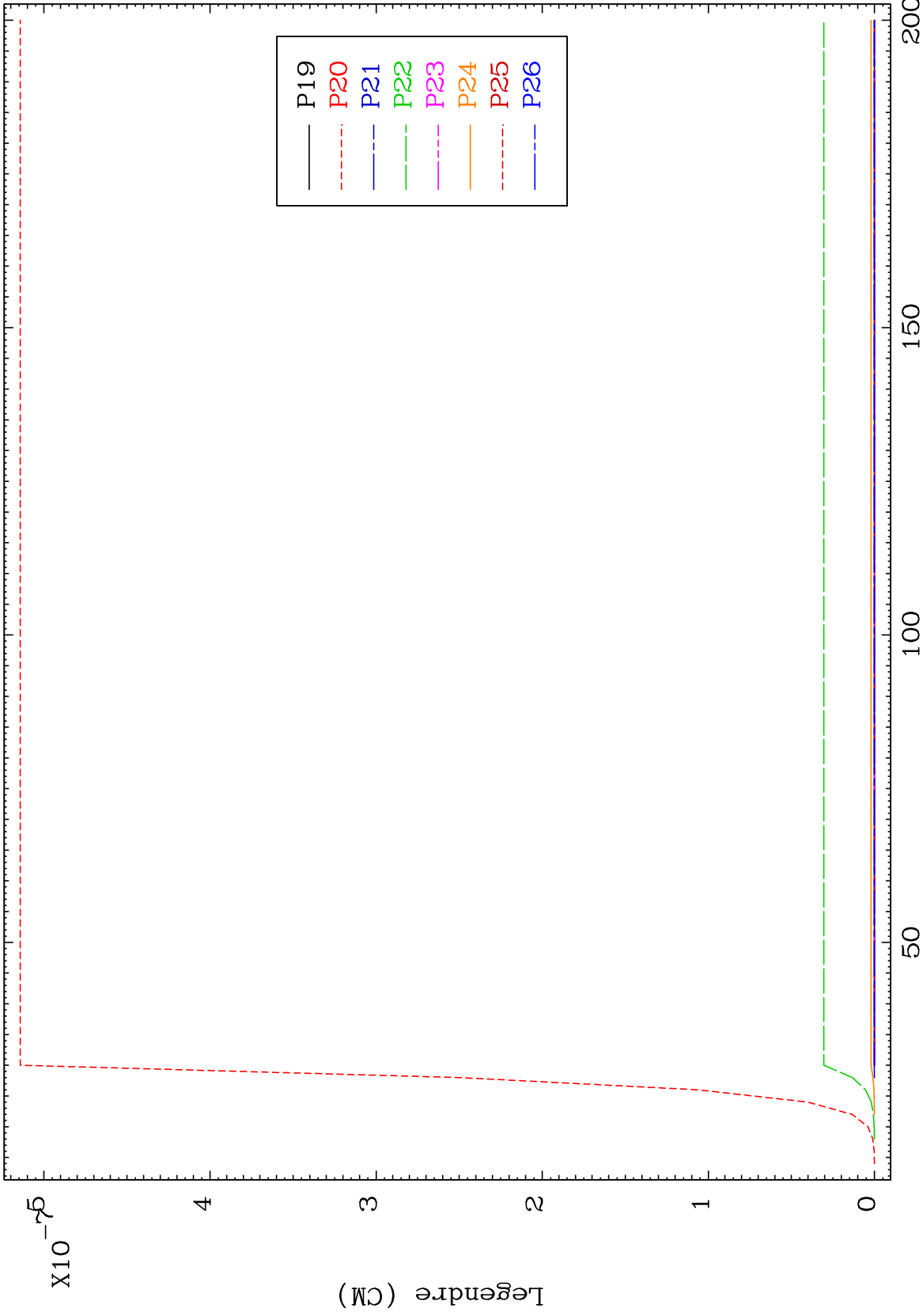


27 61-Pm-140

MAT 6128

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

61-Pm-140

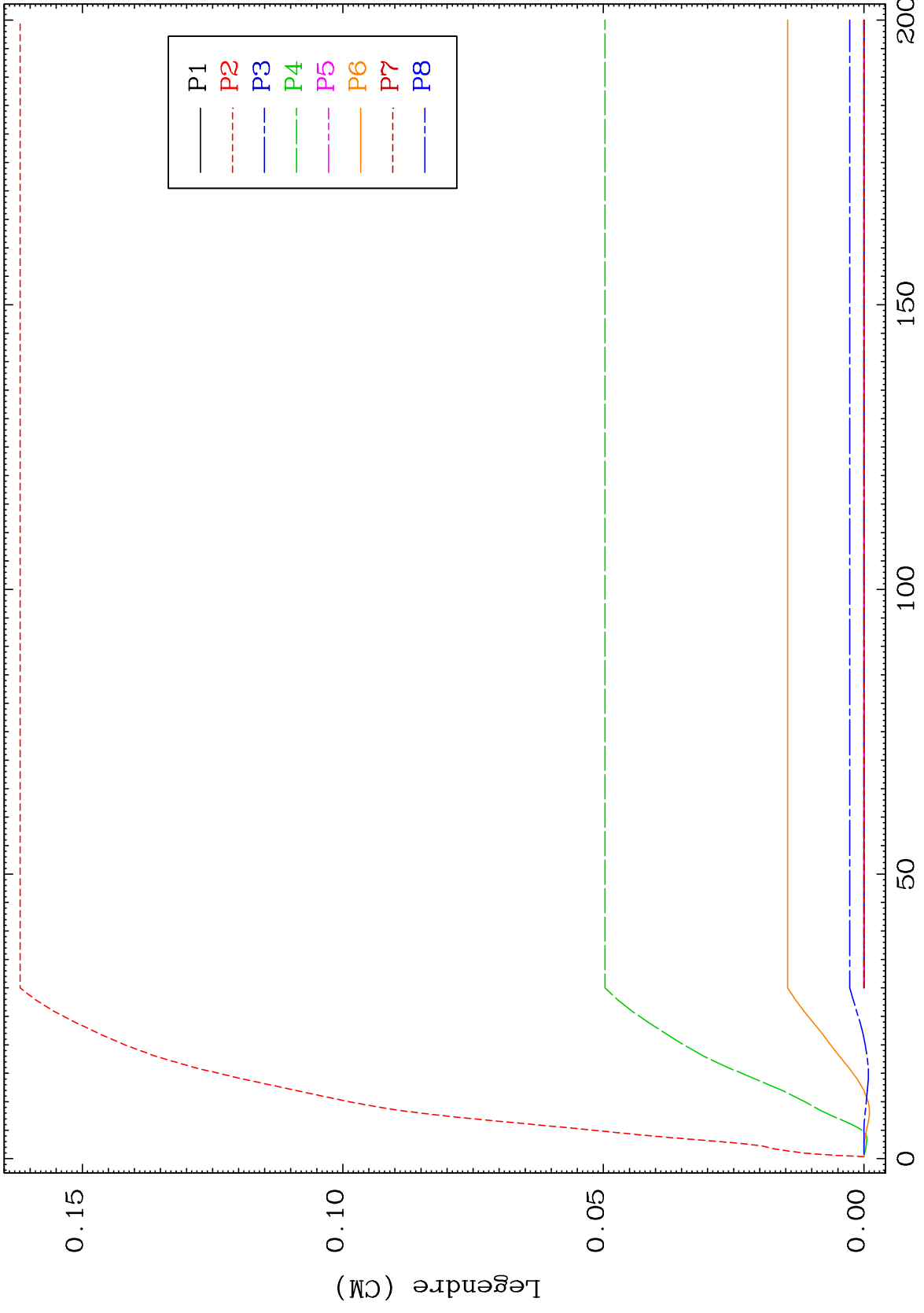


28

Incident Energy (MeV)

61-Pm-140

MAT 6128 MT= 54 (n,n') Level Legendre Coefficients 61-Pm-140

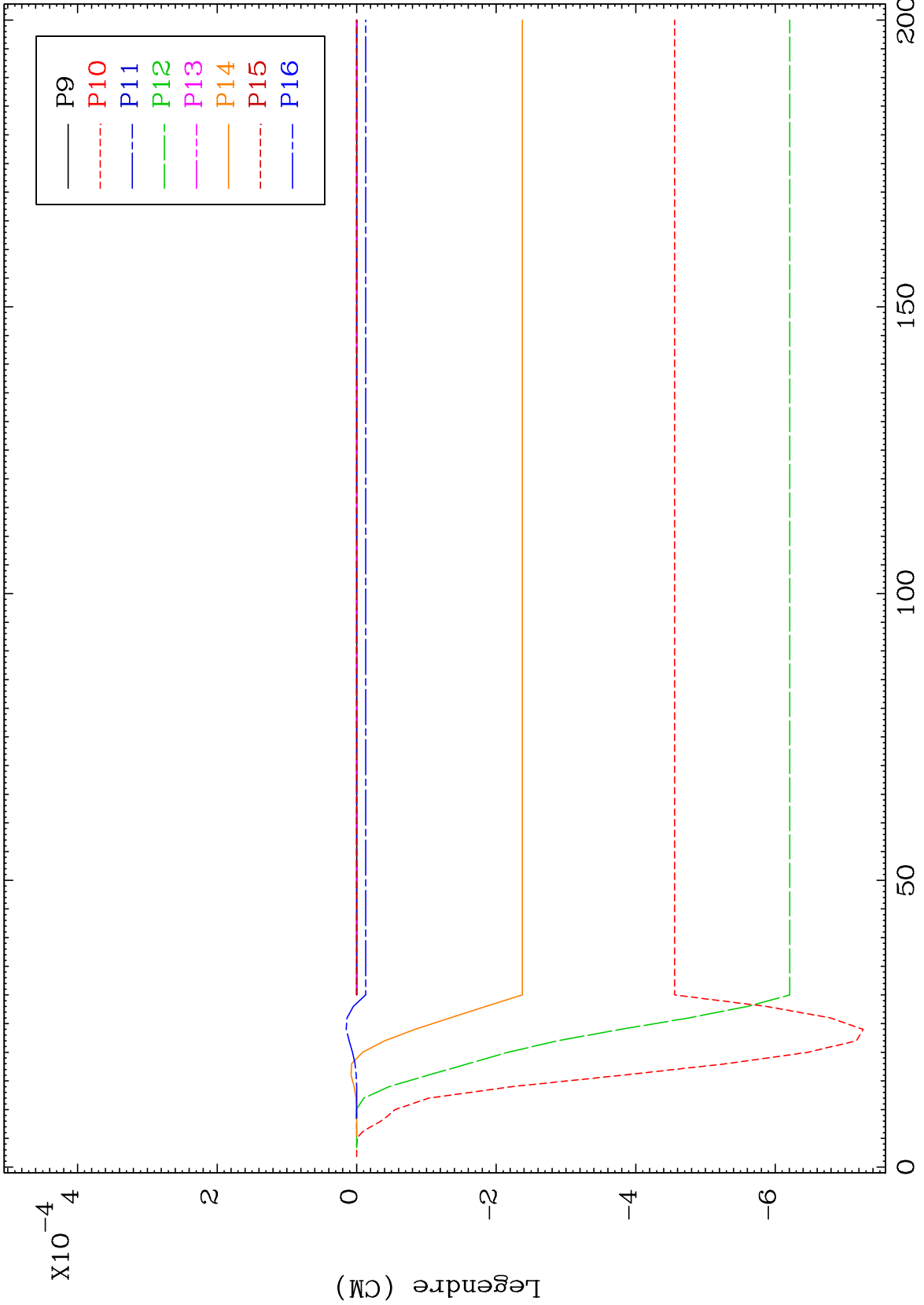


29 61-Pm-140

MAT 6128

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

61-Pm-140

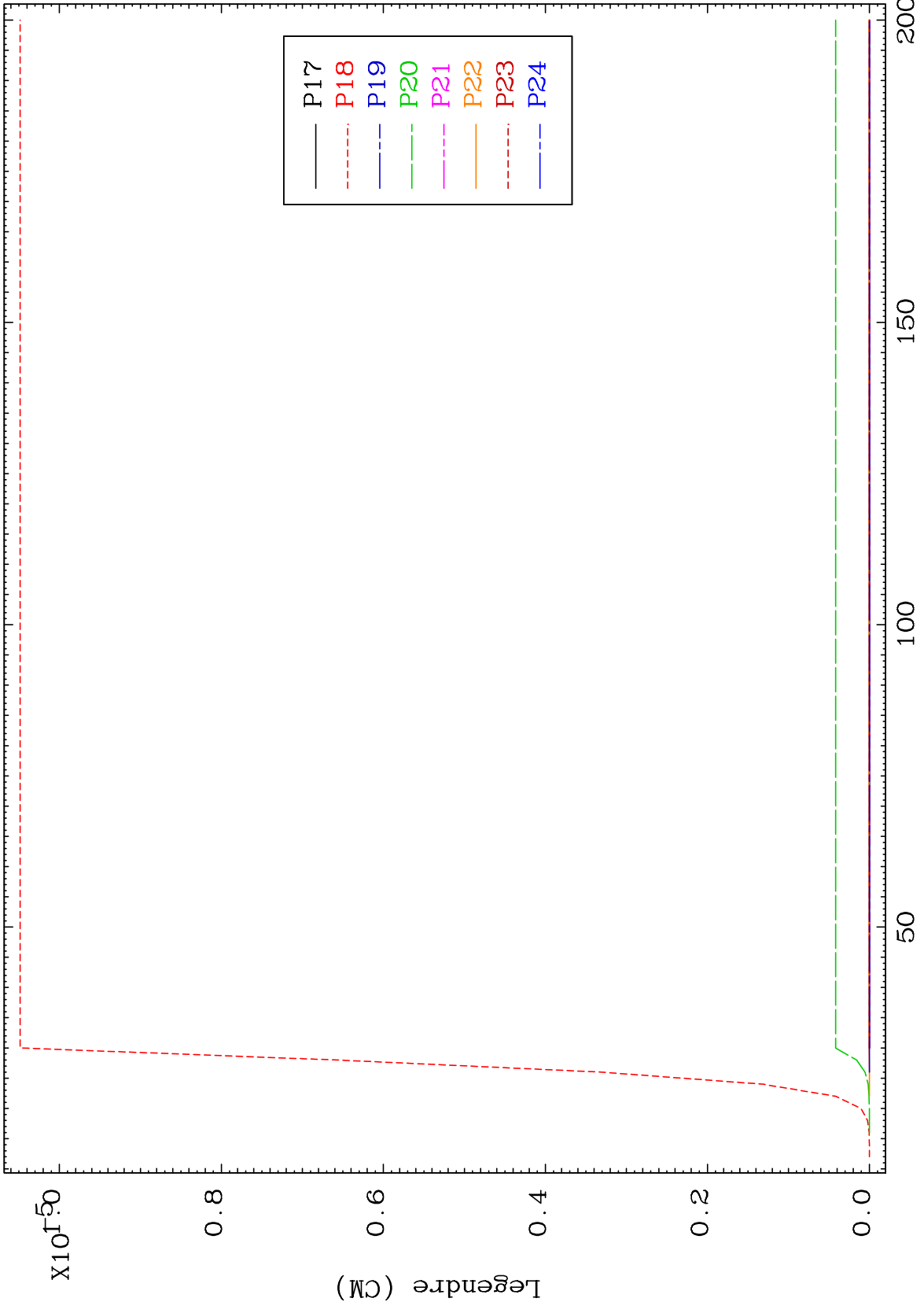


30

Incident Energy (MeV)

61-Pm-140

MAT 6128 MT= 54 (n,n') Level Legendre Coefficients 61-Pm-140

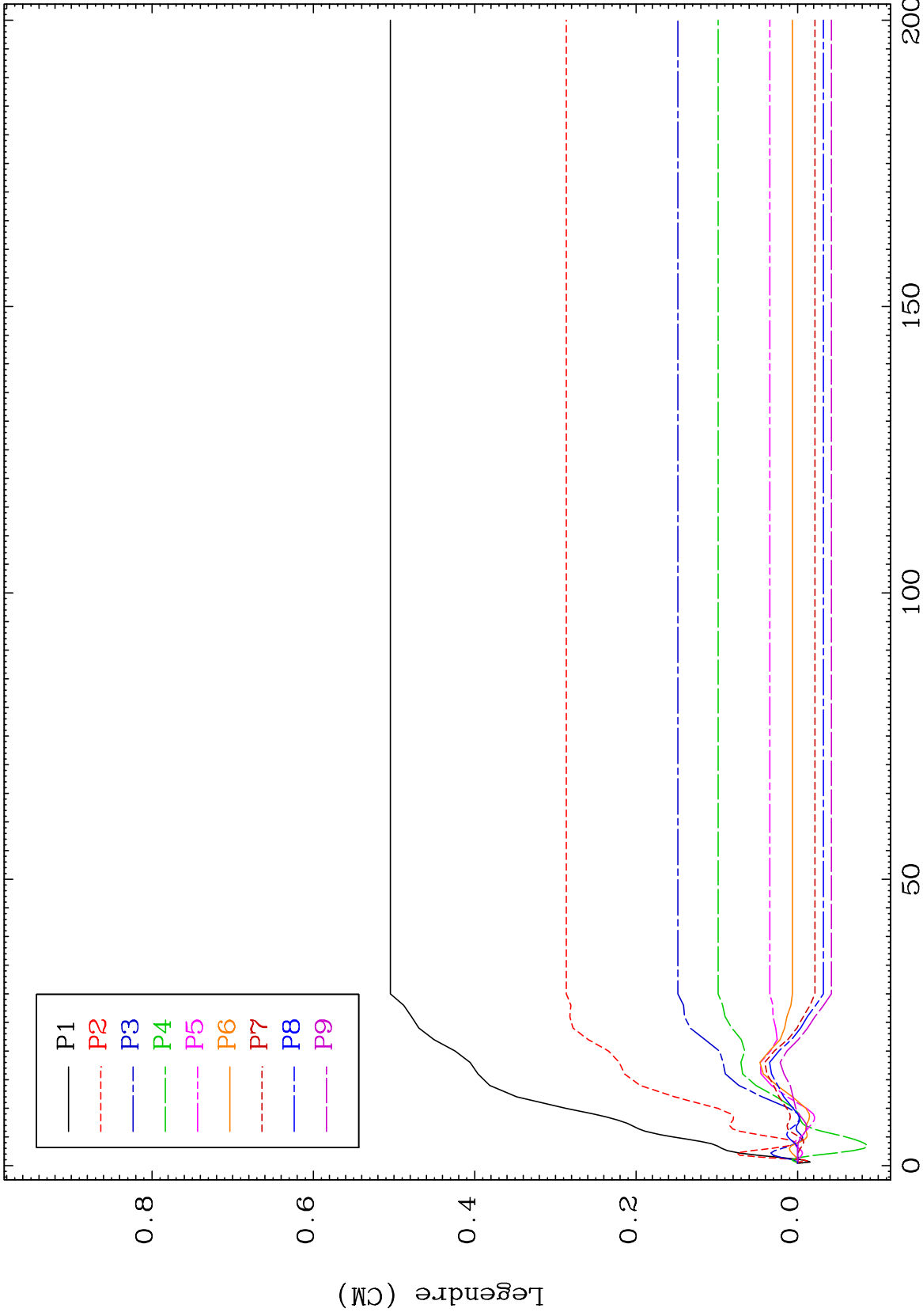




MAT 6128

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

61-Pm-140



32

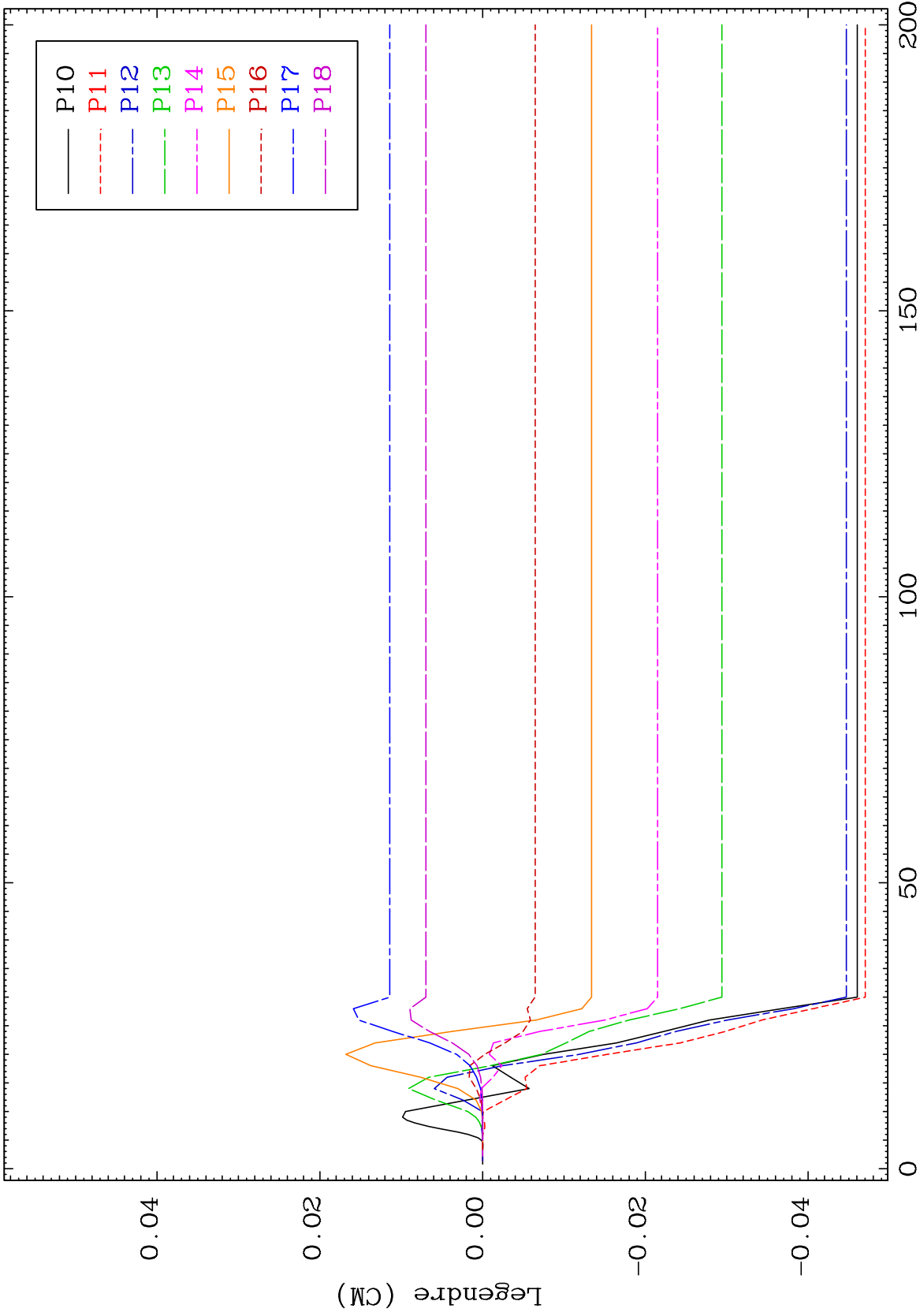
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



33

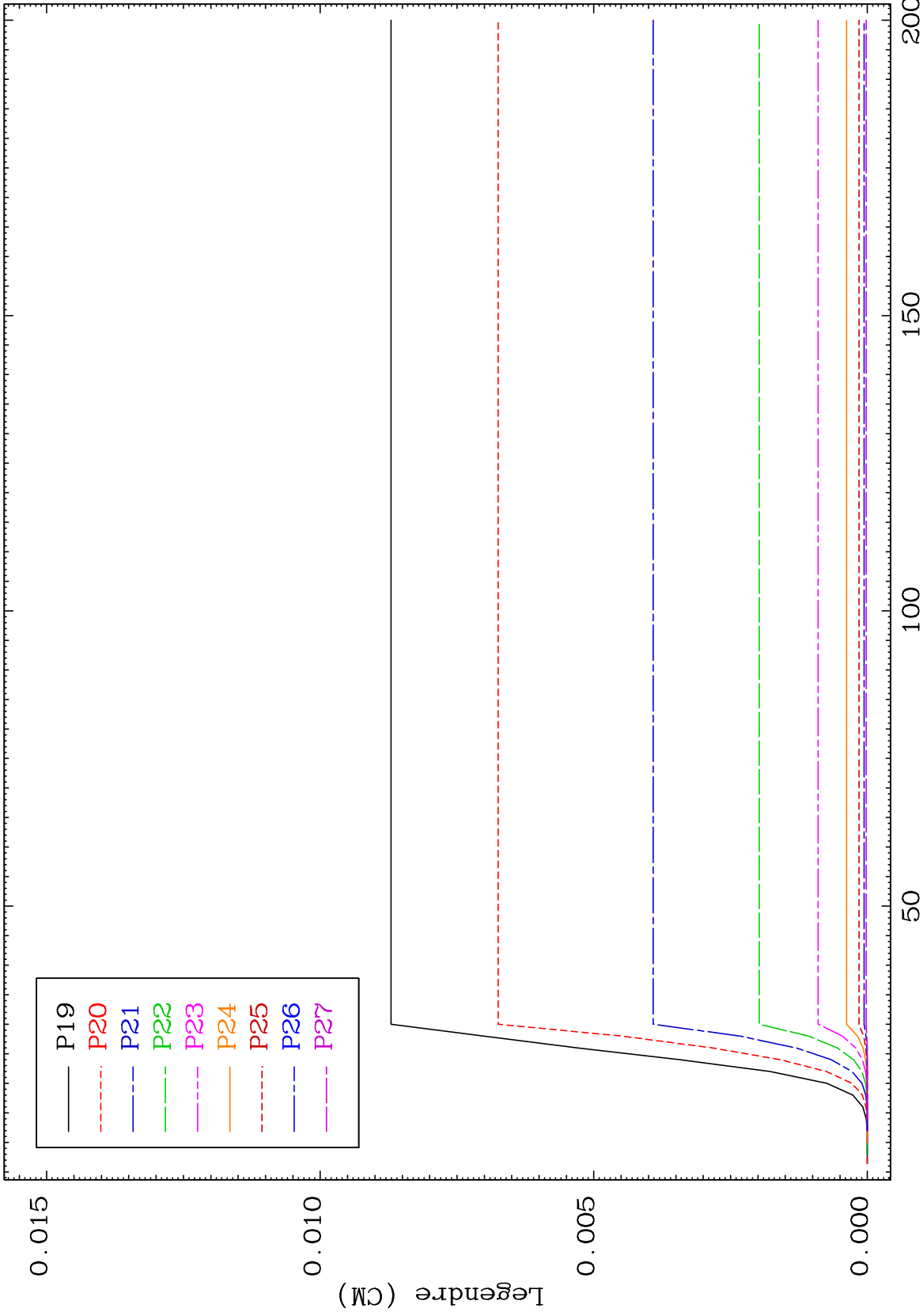
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



34

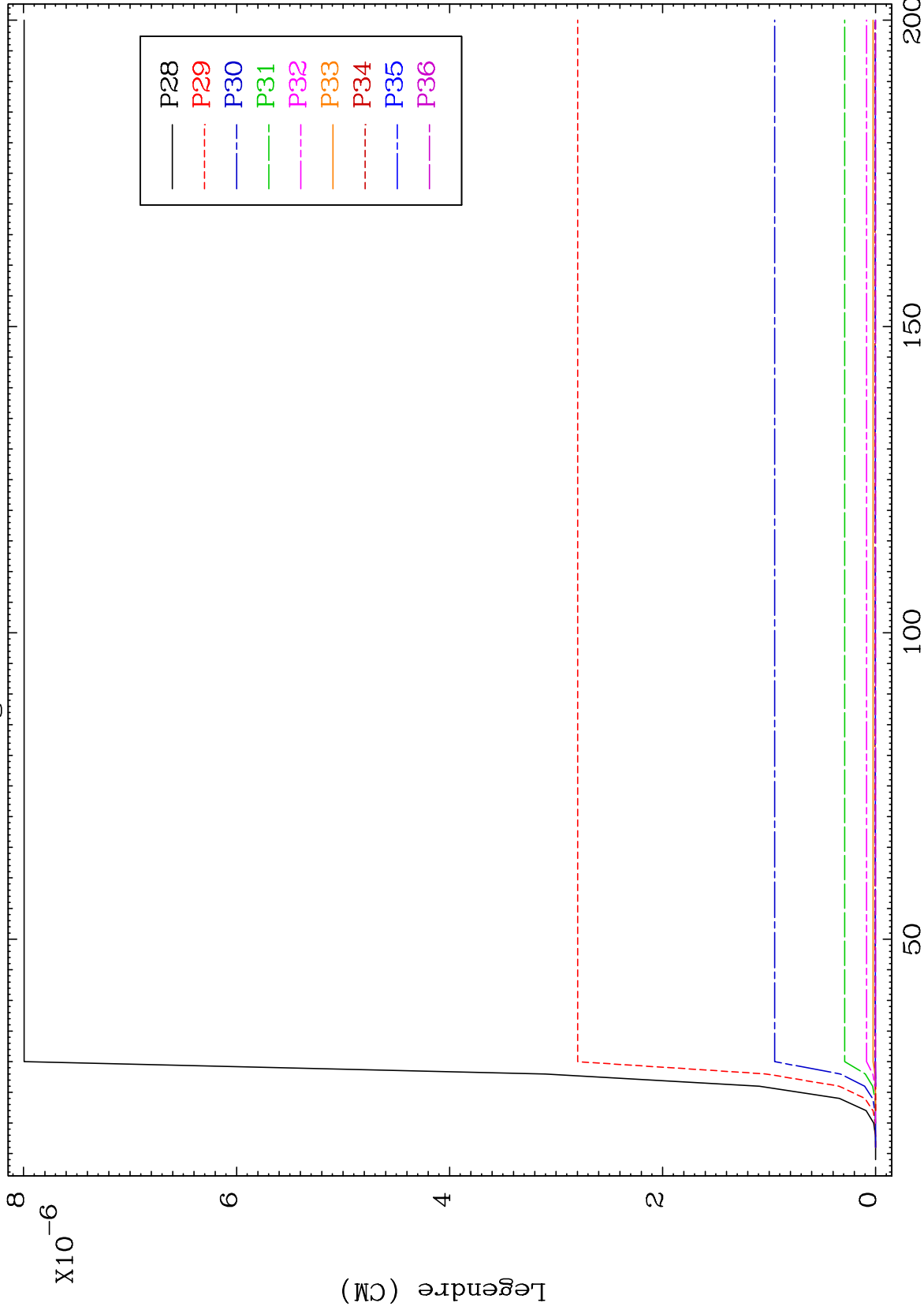
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140

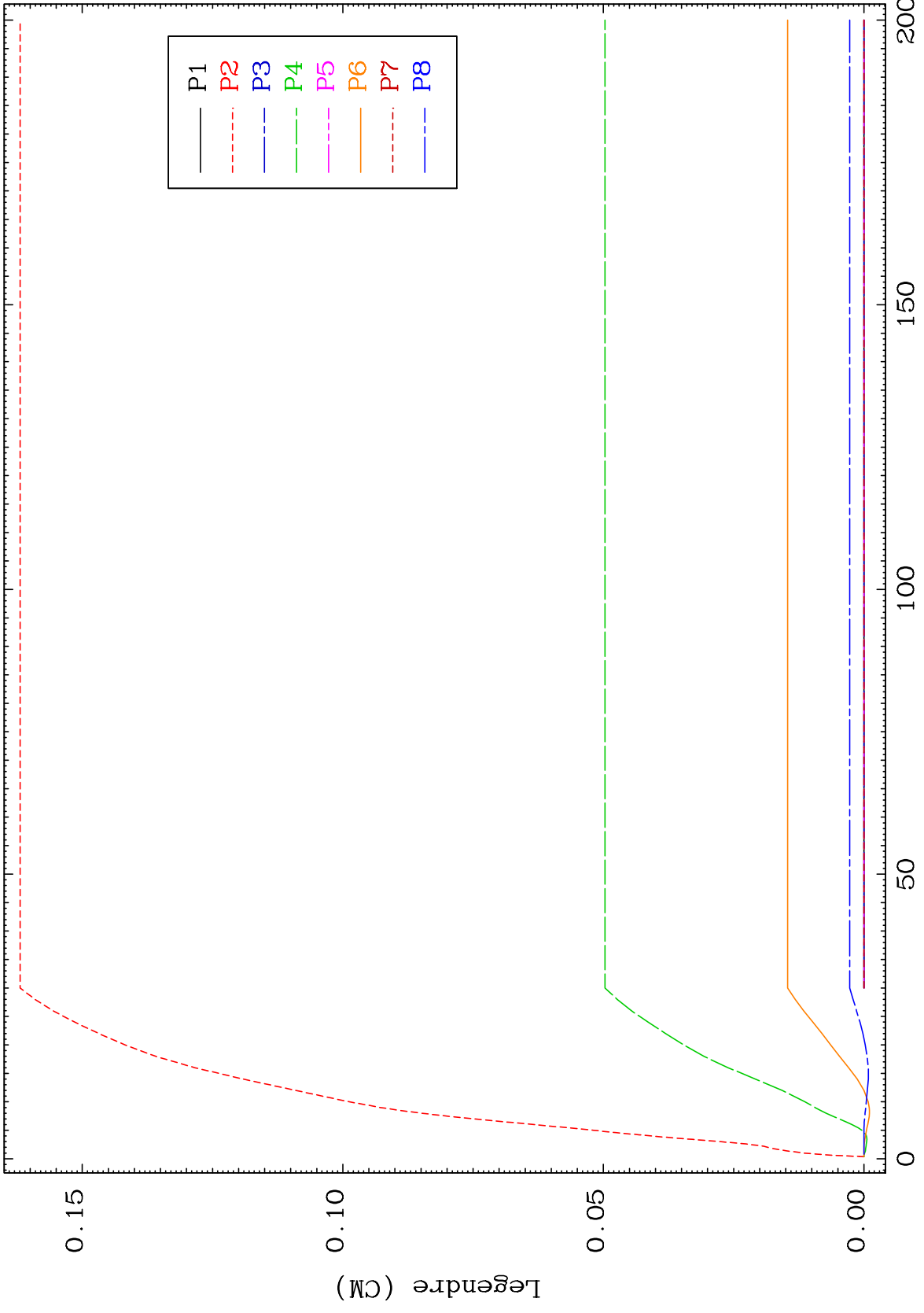


35

Incident Energy (MeV)

61-Pm-140

MAT 6128 MT= 56 (n,n') Level Legendre Coefficients 61-Pm-140

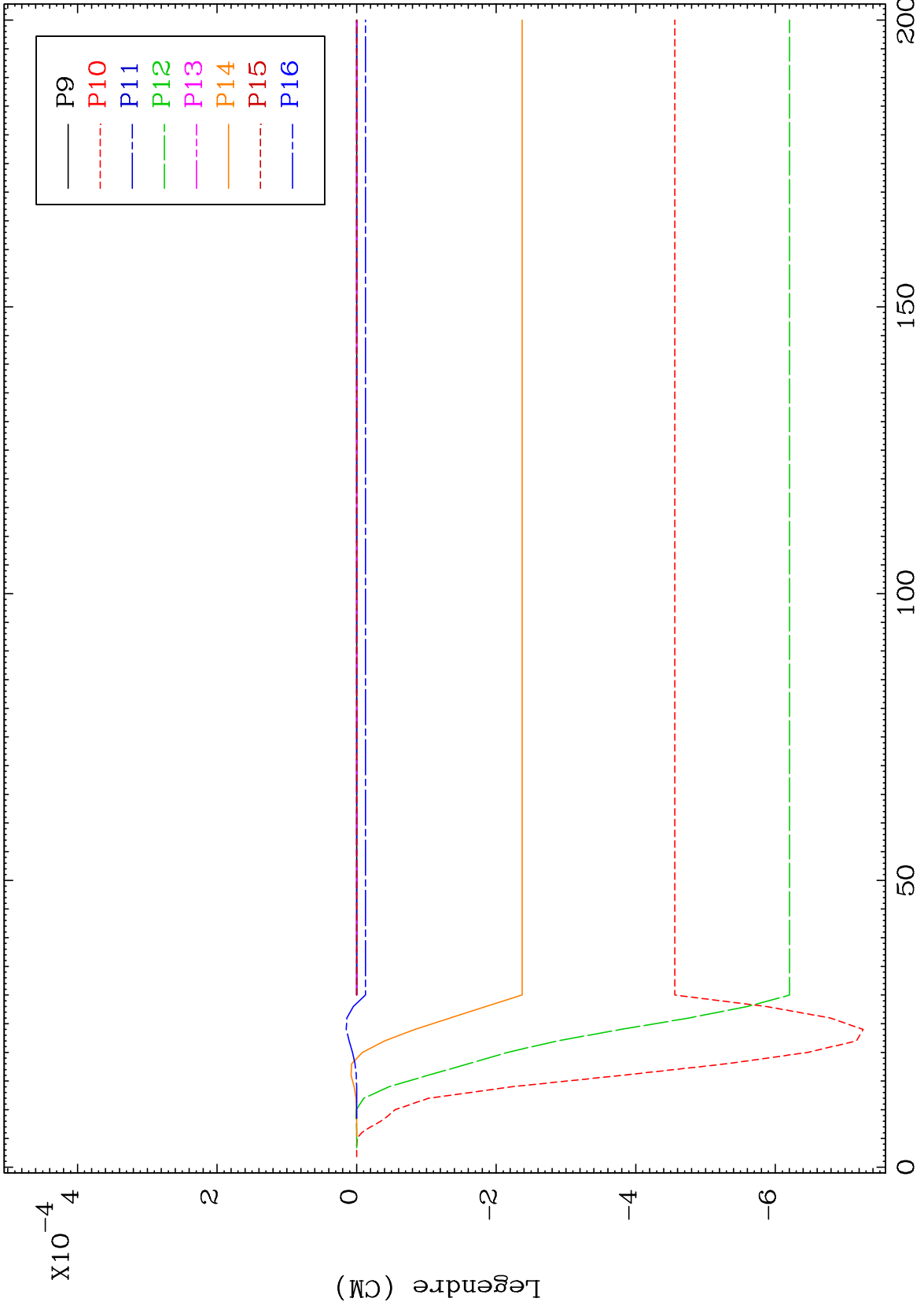


36 61-Pm-140

MAT 6128

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

61-Pm-140

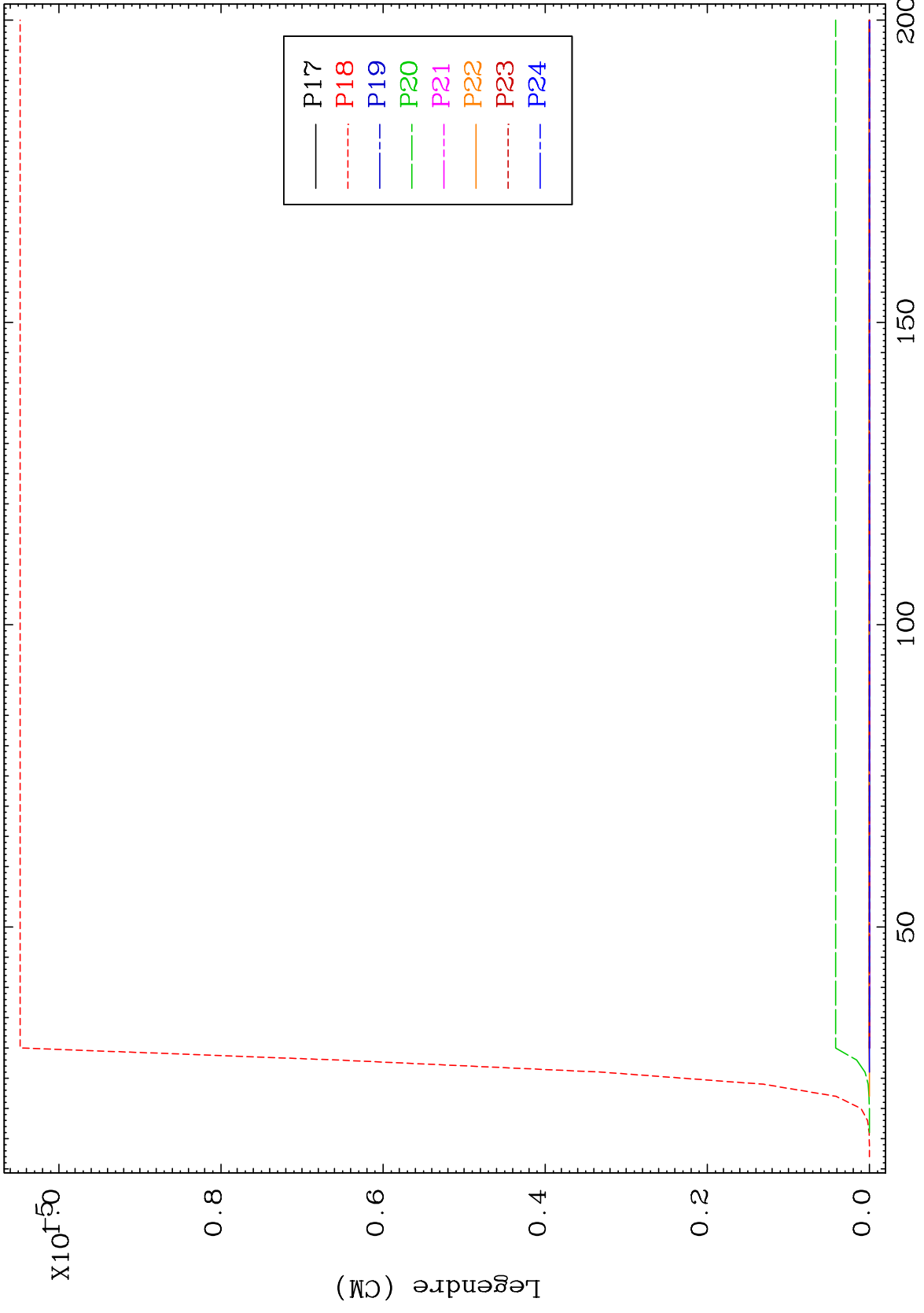


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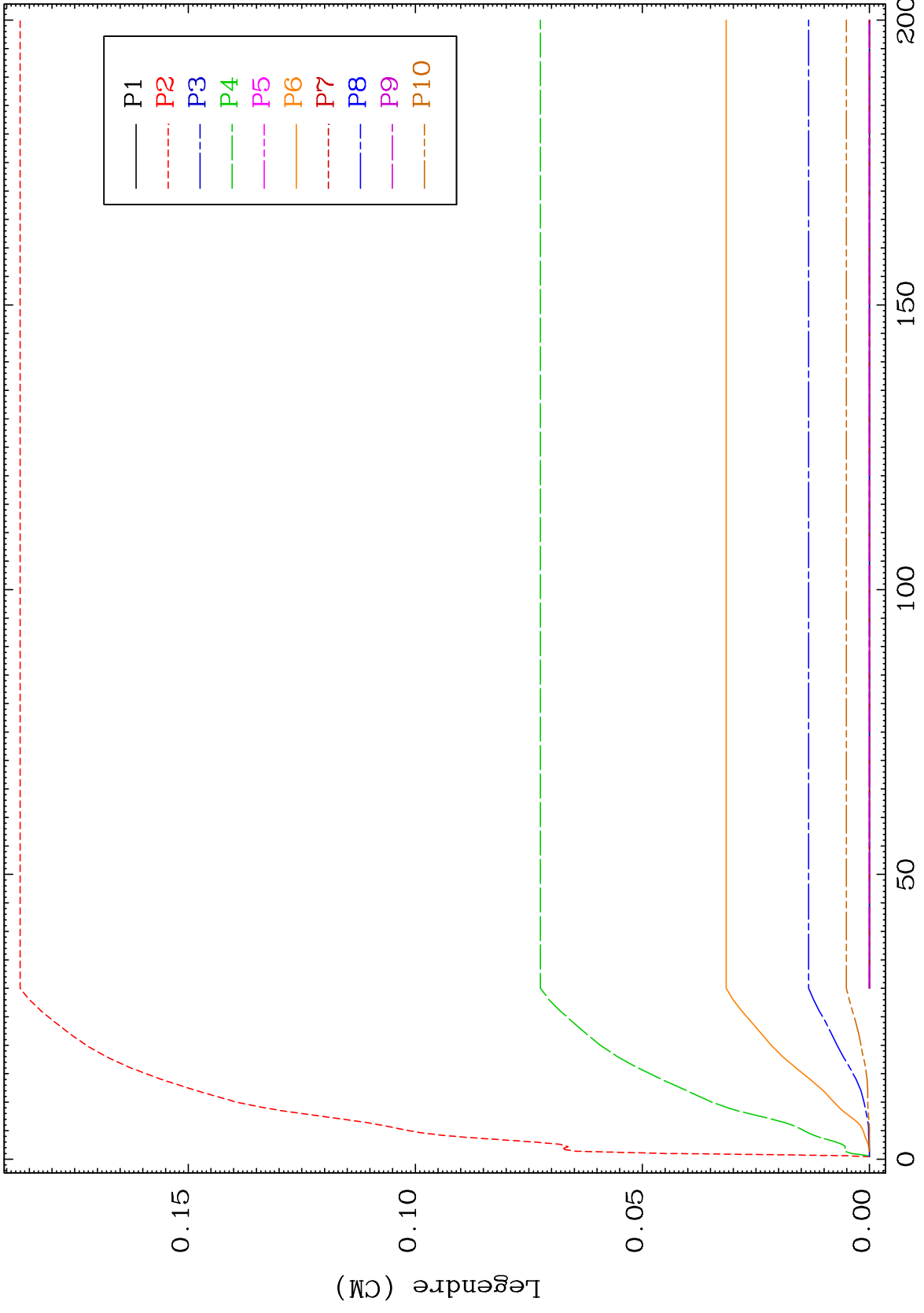
Incident Energy (MeV)

61-Pm-140

MAT 6128 MT= 56 (n,n') Level Legendre Coefficients 61-Pm-140



MAT 6128 MT= 57 (n,n') Level Legendre Coefficients 61-Pm-140



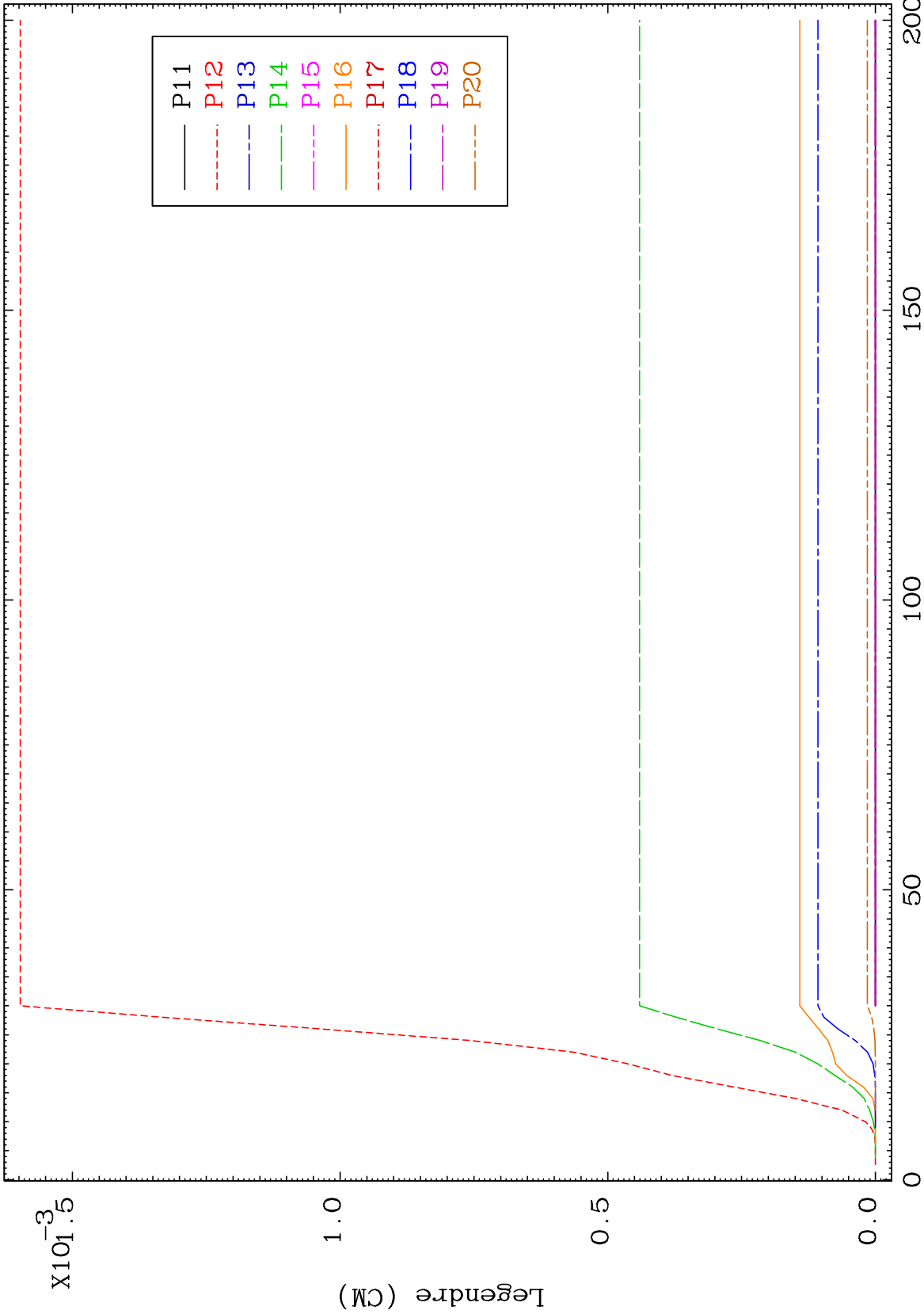
39 61-Pm-140



MAT 6128

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

61-Pm-140

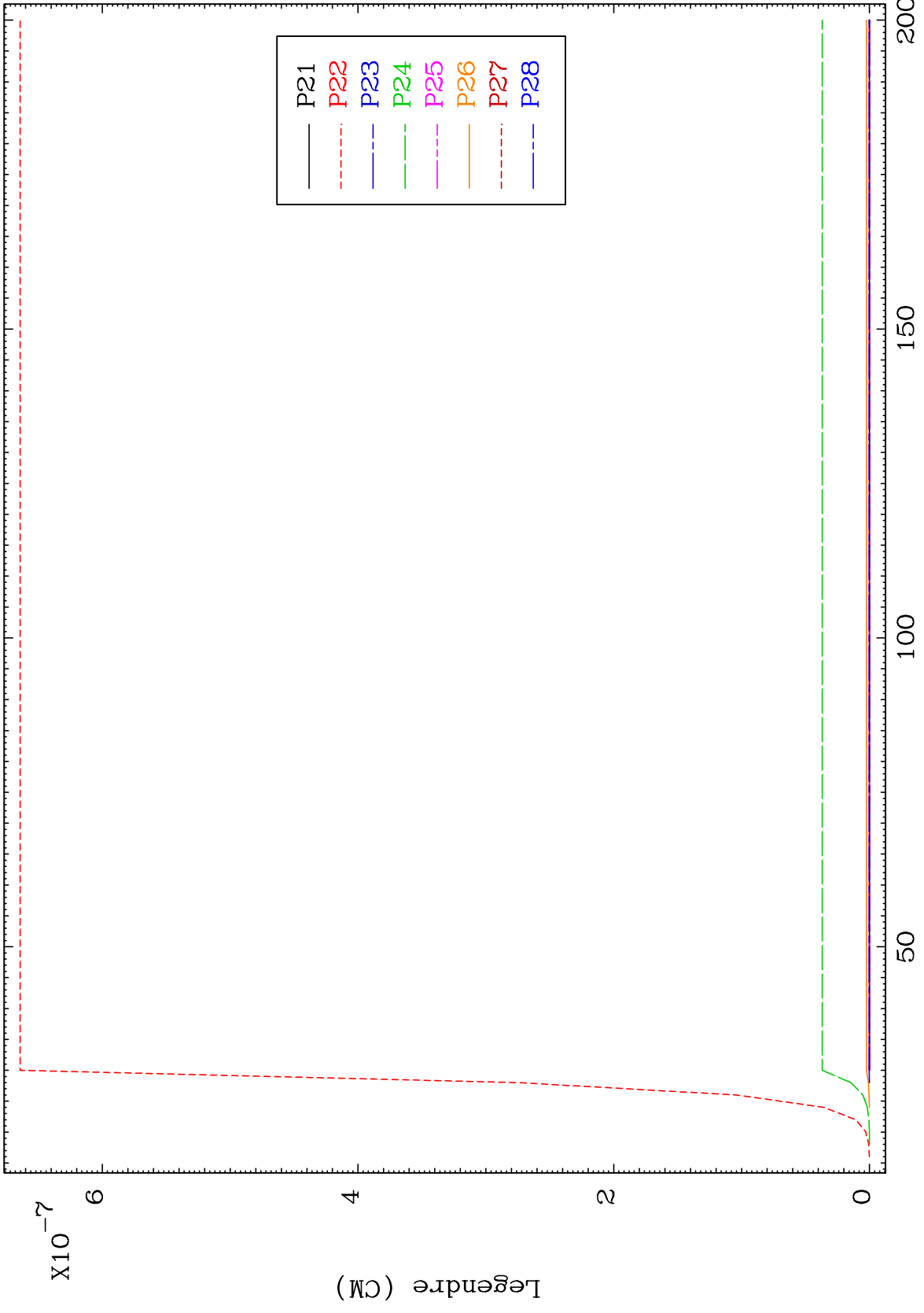


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Incident Energy (MeV)

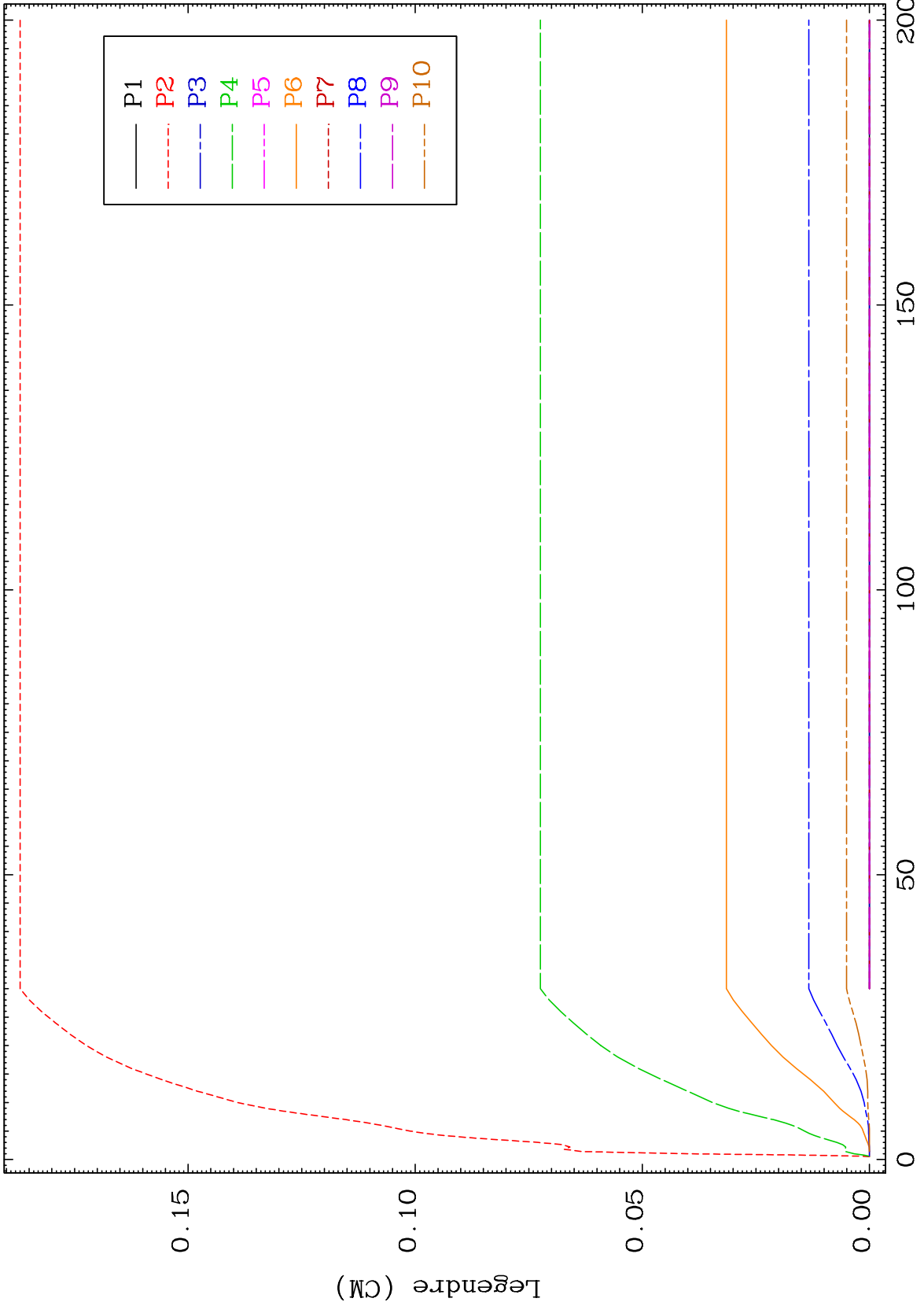
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MAT 6128 MT= 57 (n,n') Level Legendre Coefficients 61-Pm-140



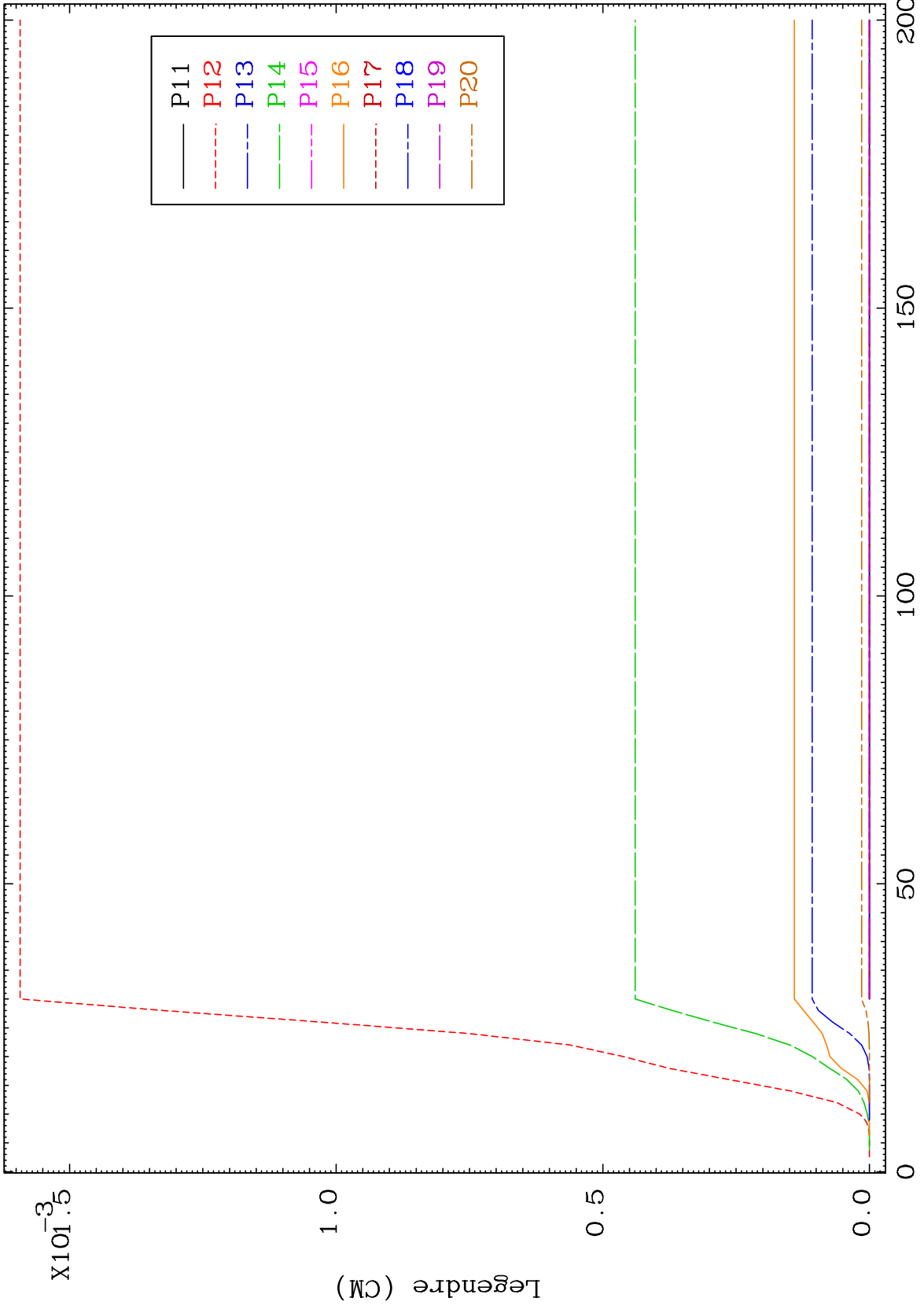
41 Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 58 (n,n') Level Legendre Coefficients 61-Pm-140



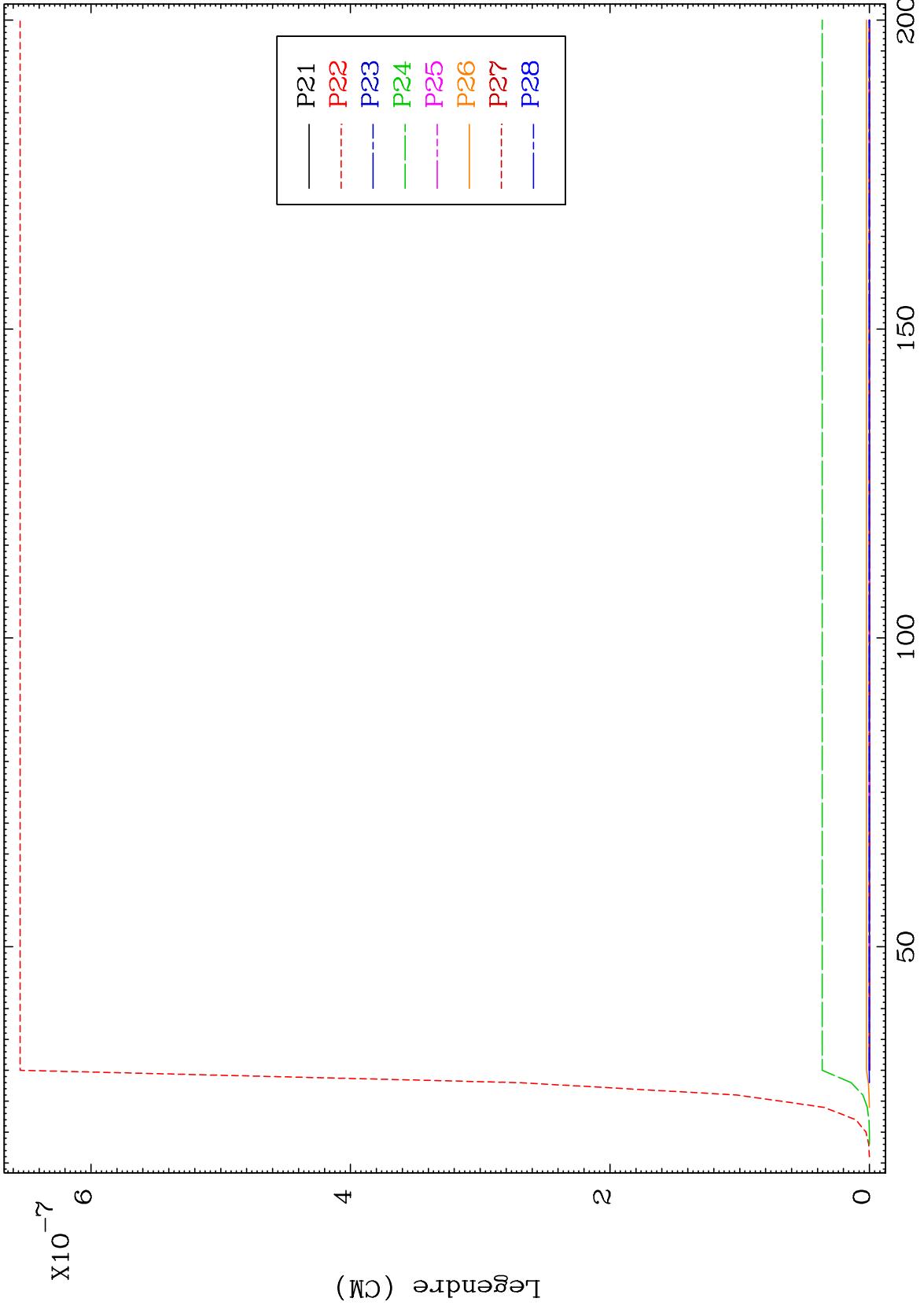
42 61-Pm-140

MAT 6128 MT= 58 (n,n') Level Legendre Coefficients 61-Pm-140



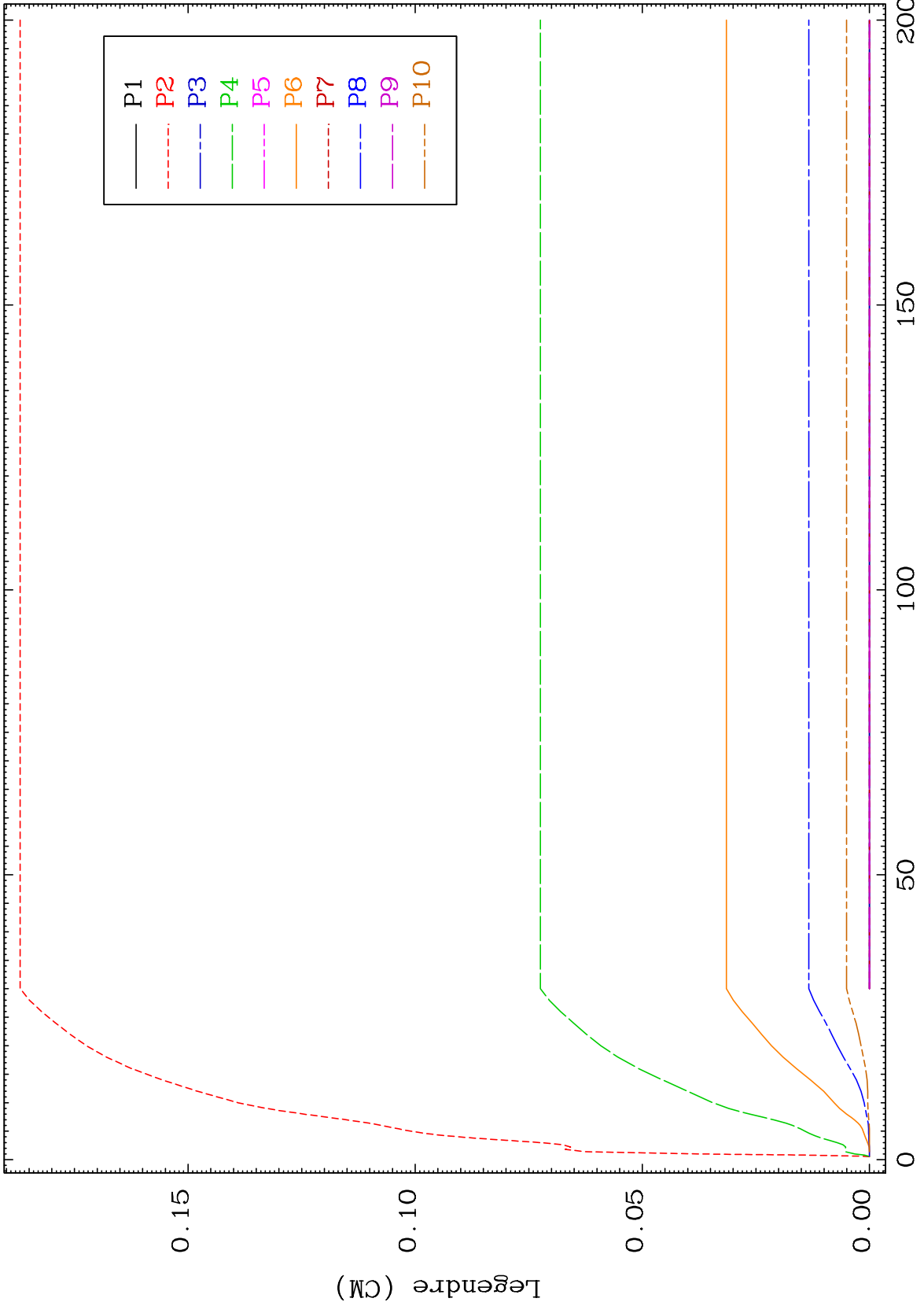
43 61-Pm-140

MAT 6128 MT= 58 (n,n') Level Legendre Coefficients 61-Pm-140



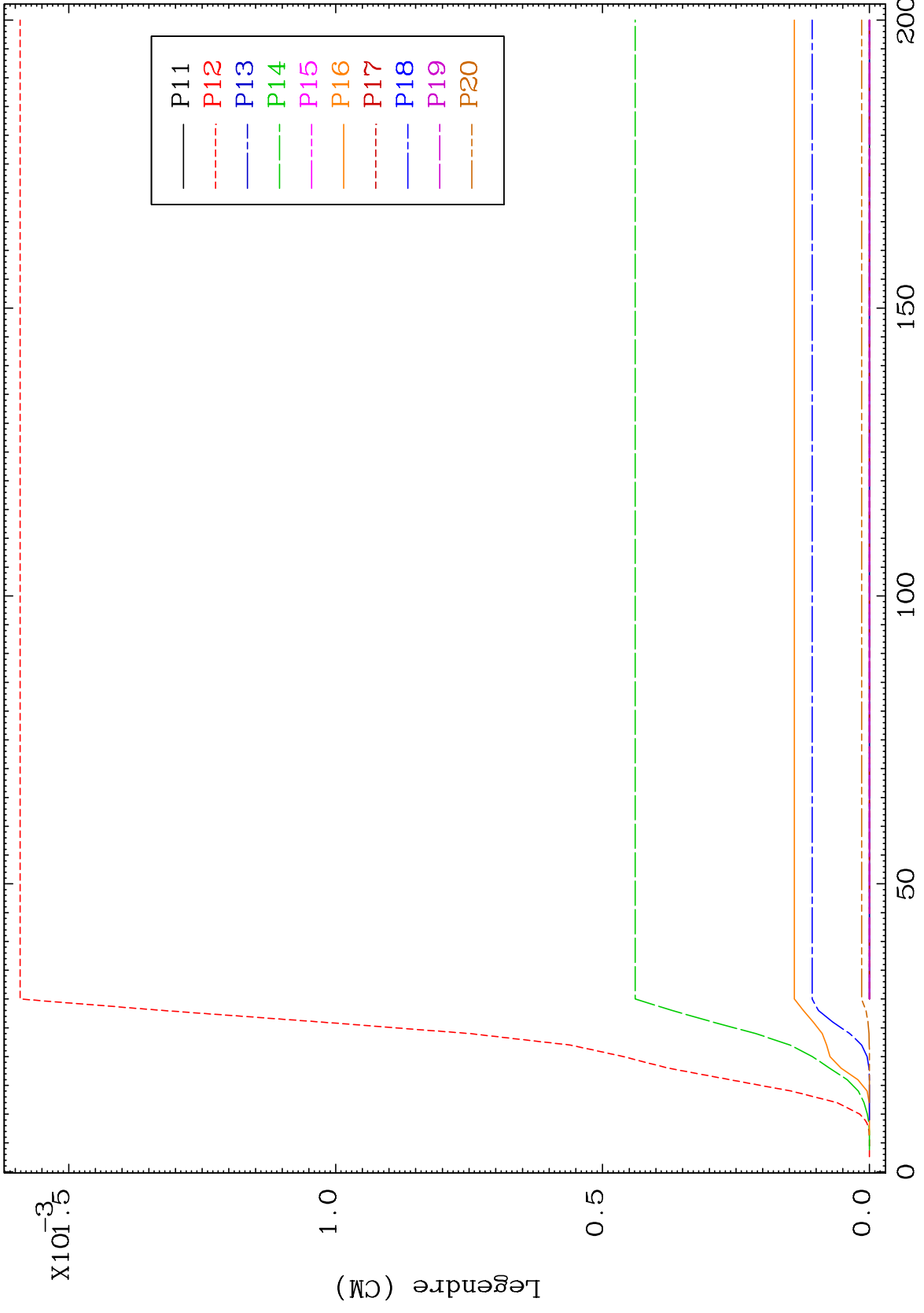
44 Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 59 (n,n') Level Legendre Coefficients 61-Pm-140



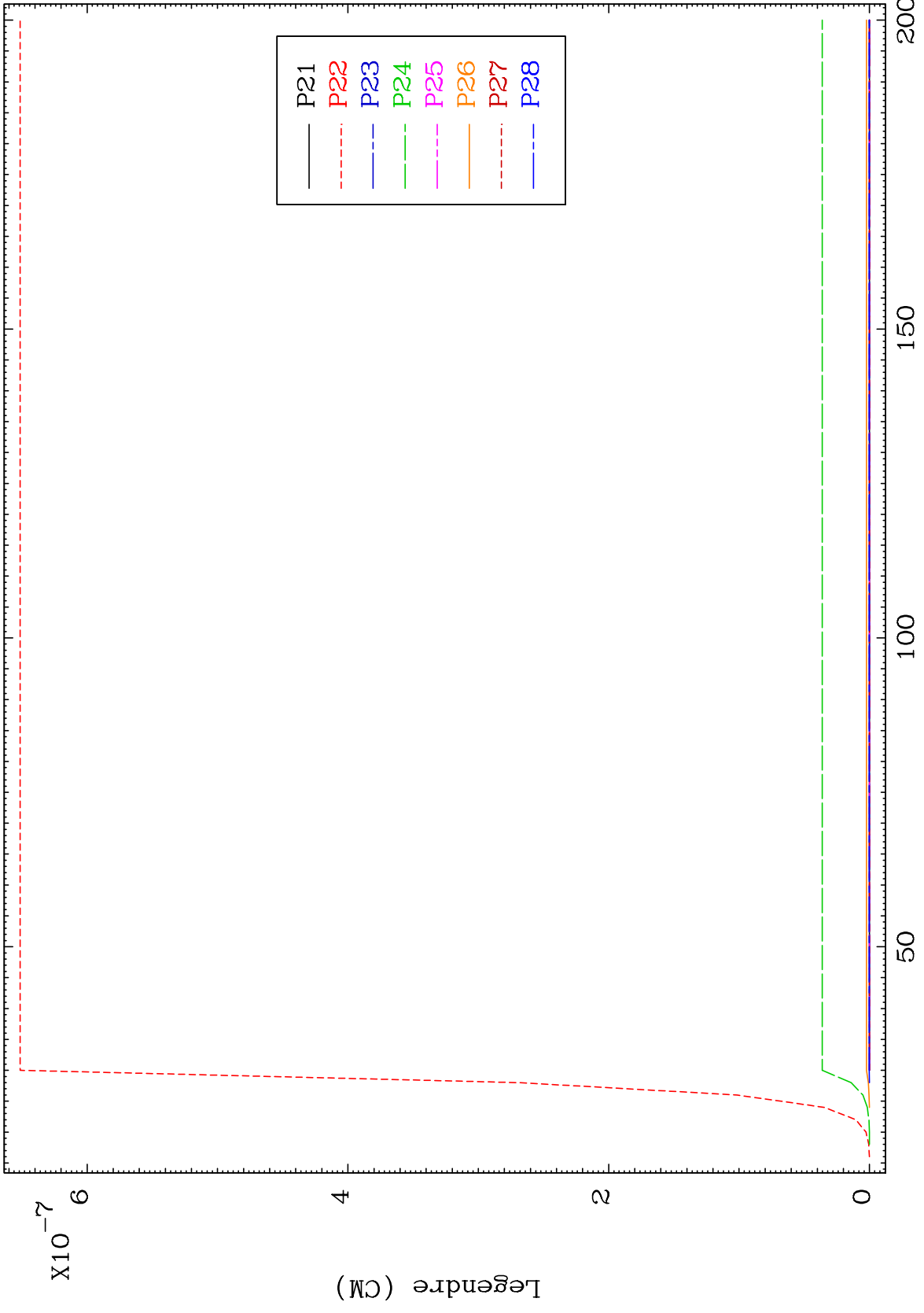
Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 59 (n,n') Level Legendre Coefficients 61-Pm-140



46 Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 59 (n,n') Level Legendre Coefficients 61-Pm-140



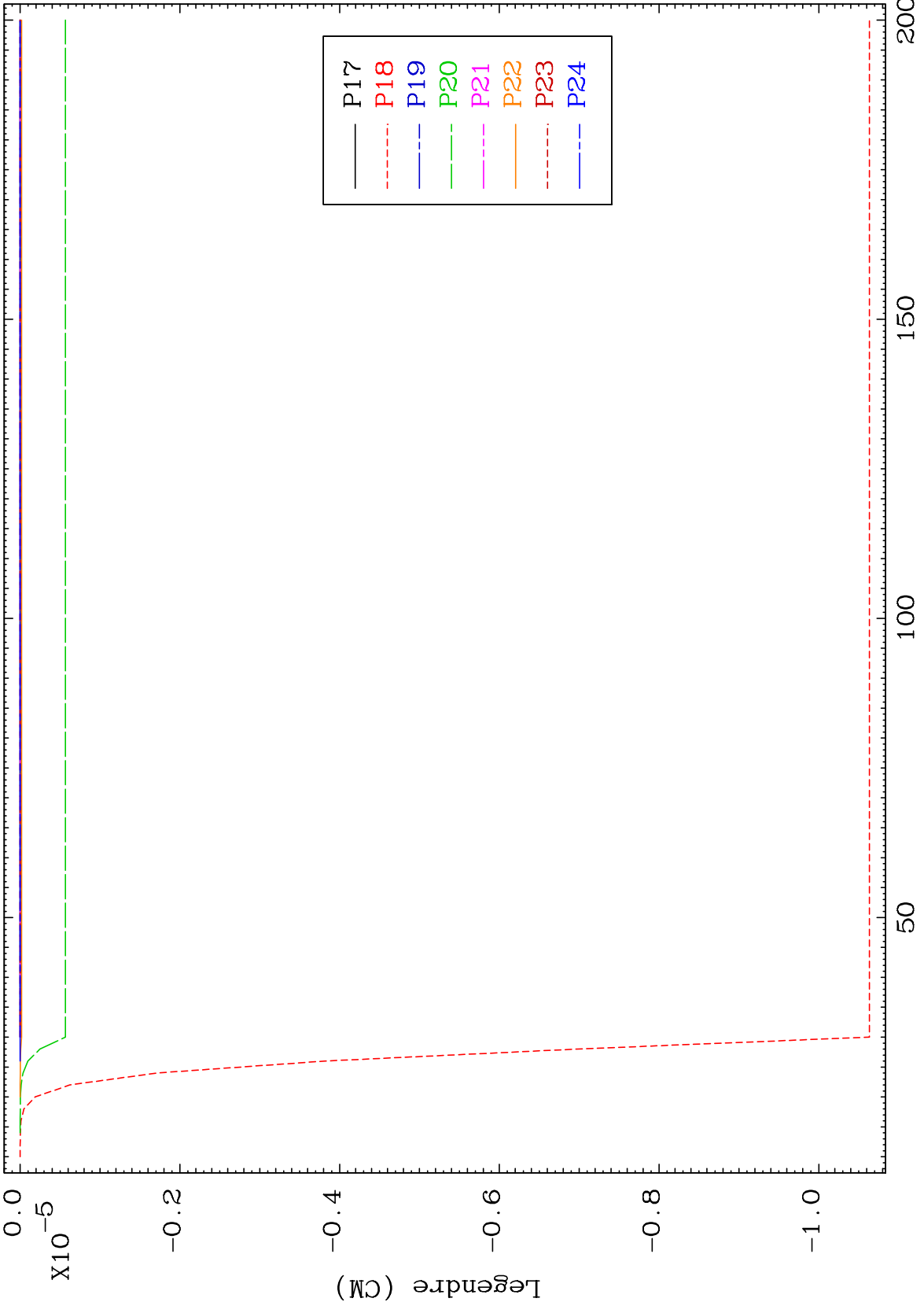
47 Incident Energy (MeV) 61-Pm-140





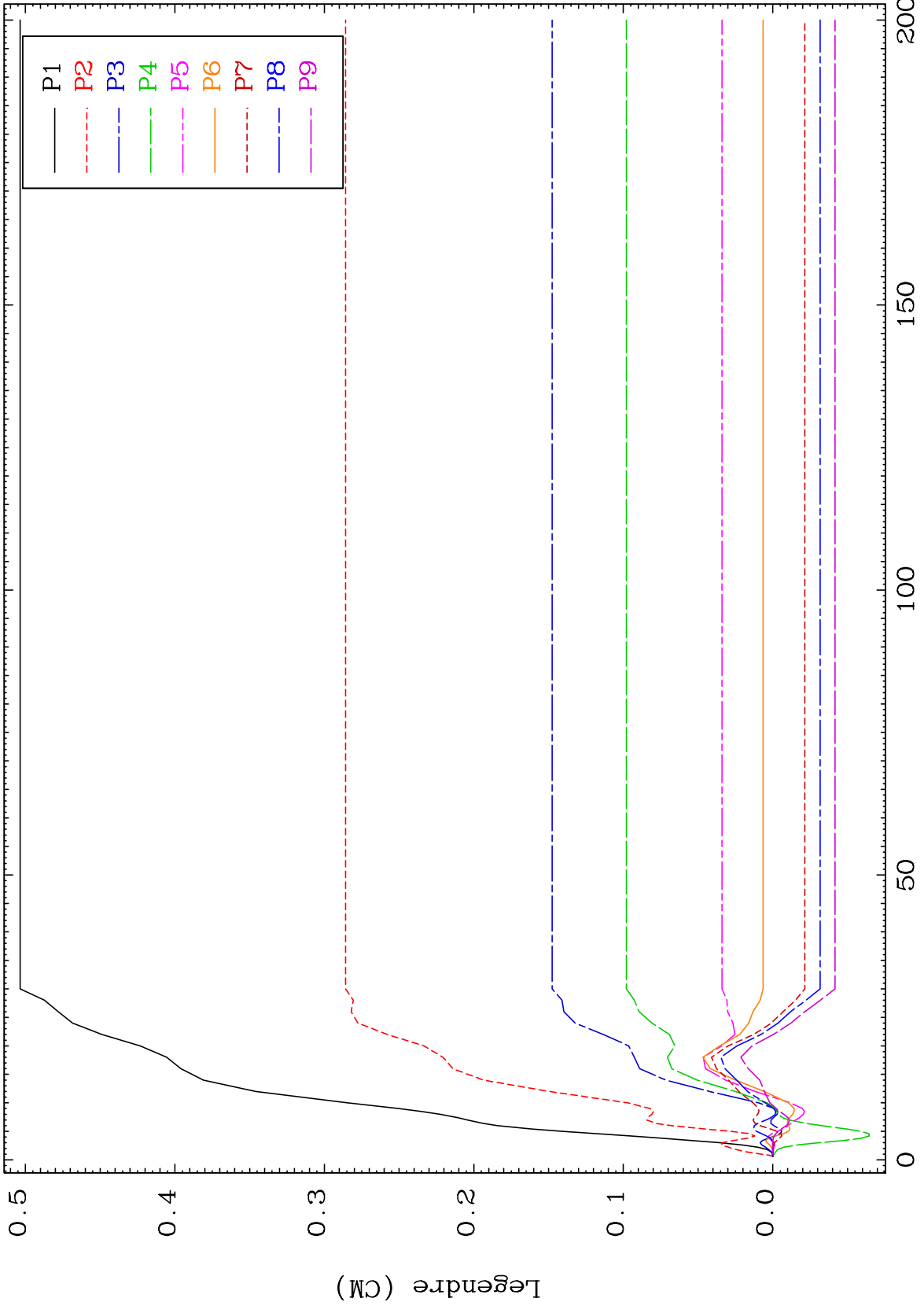


MAT 6128 MT= 60 (n,n') Level Legendre Coefficients 61-Pm-140



61-Pm-140

MAT 6128 MT= 61 (n,n') Level Legendre Coefficients 61-Pm-140

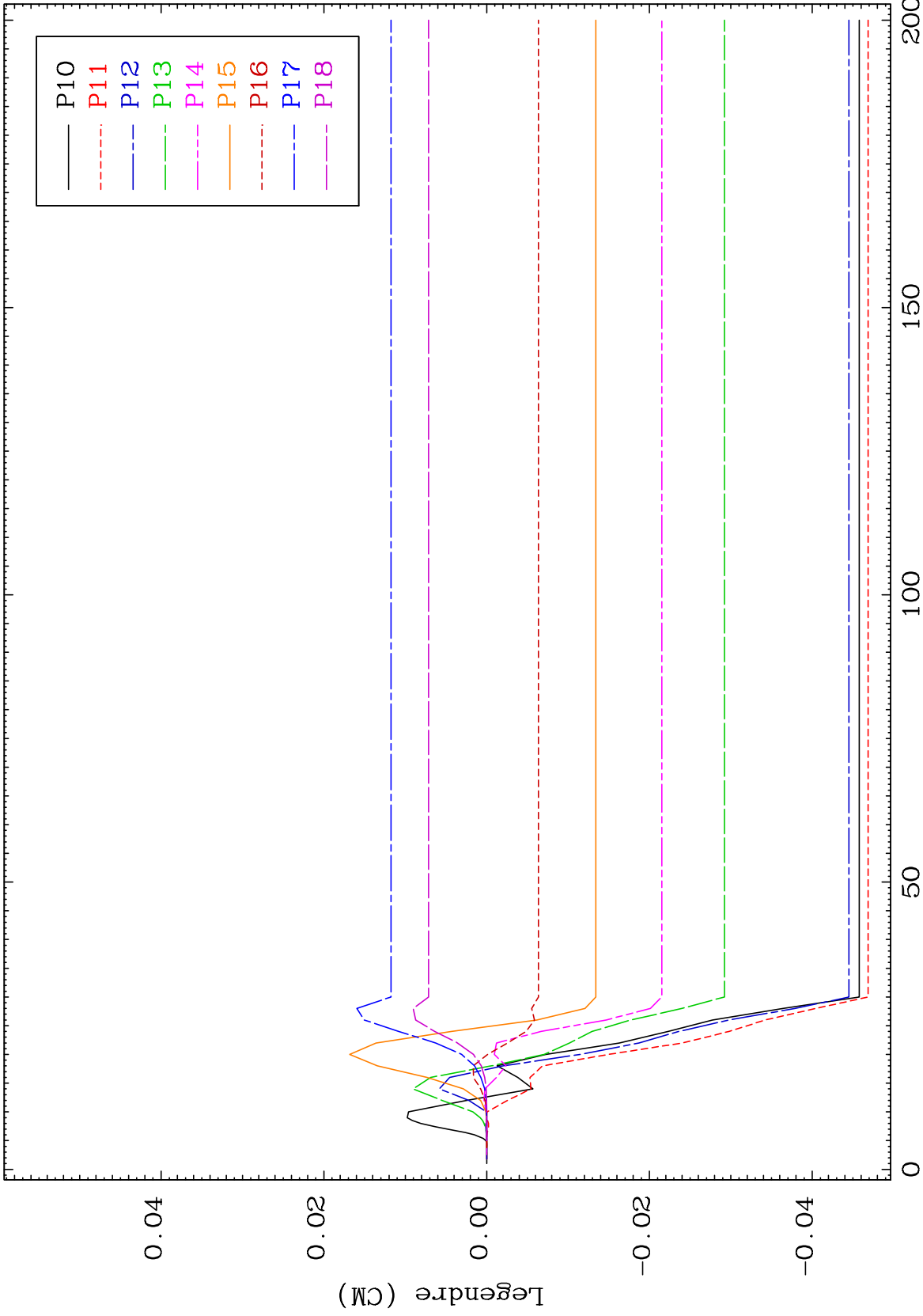


51 61-Pm-140

MAT 6128

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

61-Pm-140



52

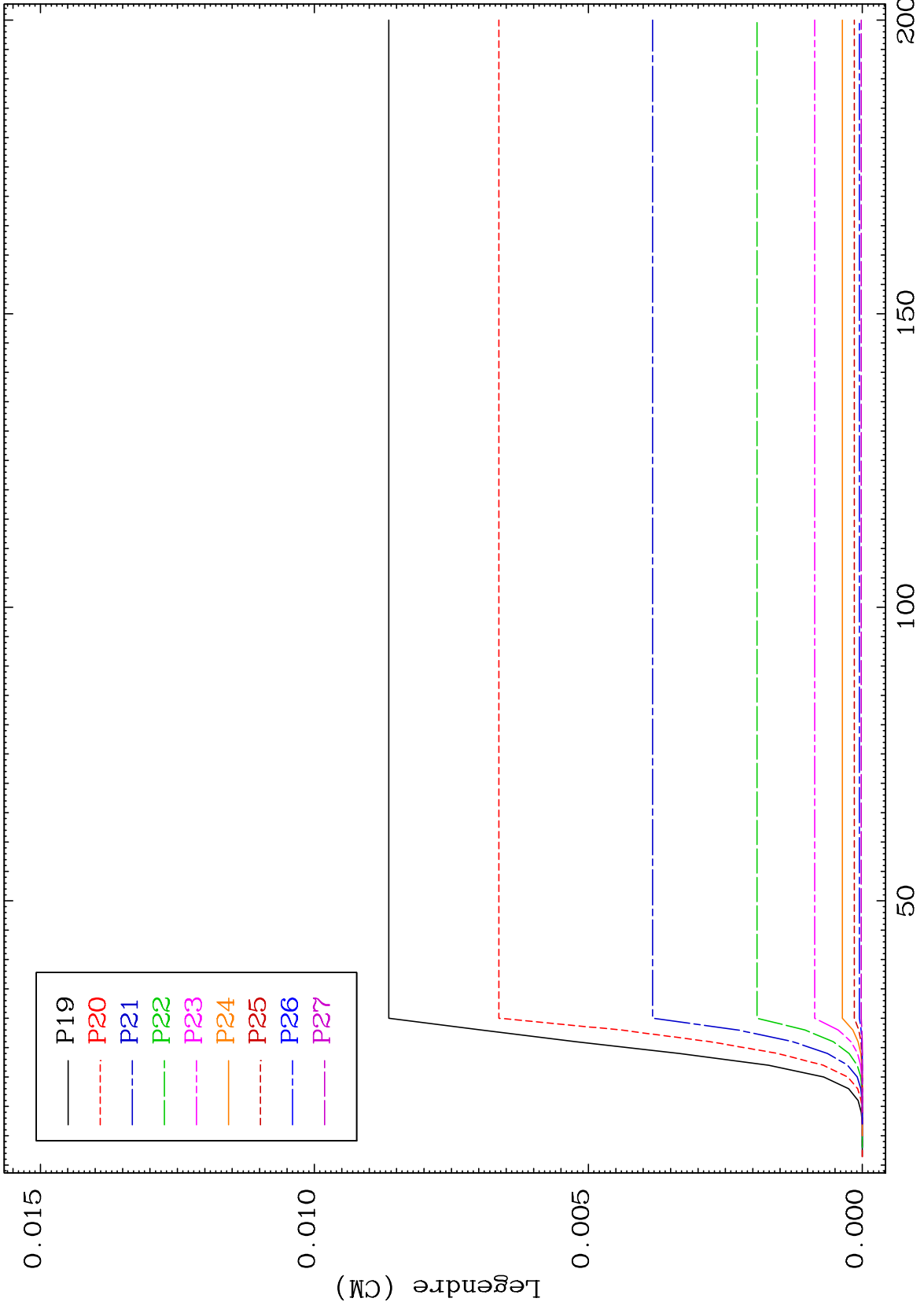
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



53

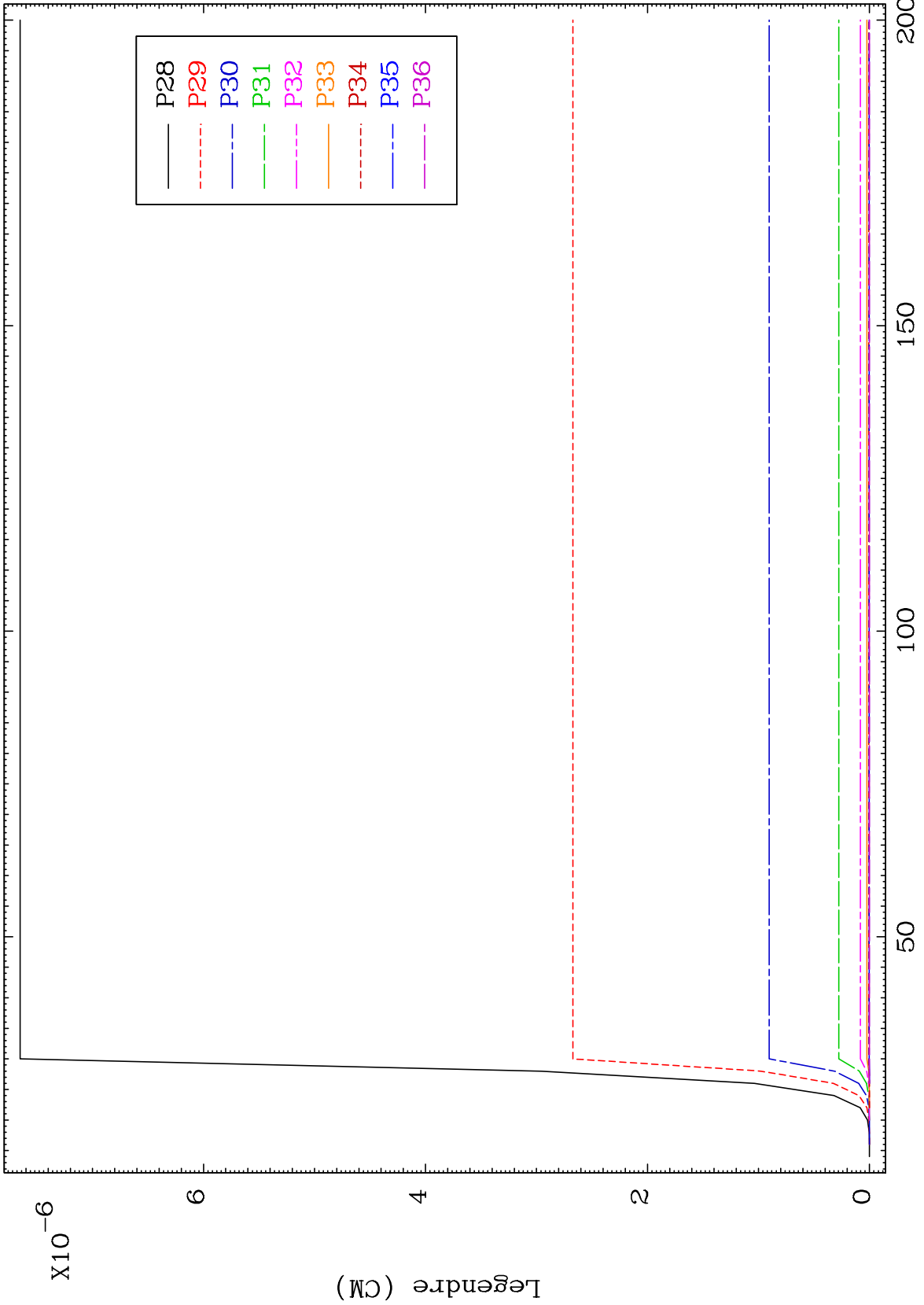
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140

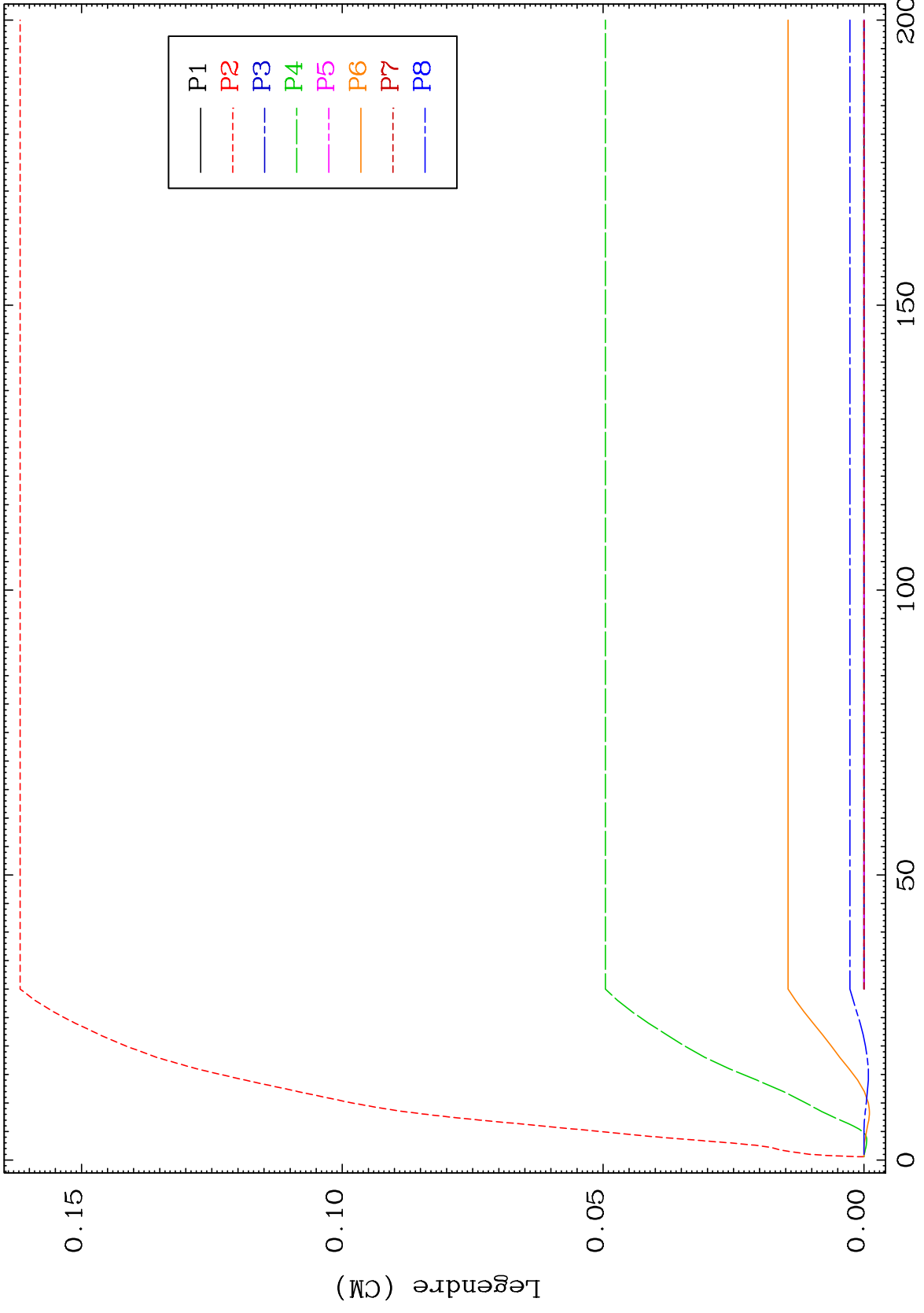


54

Incident Energy (MeV)

61-Pm-140

MAT 6128 MT= 62 (n,n') Level Legendre Coefficients 61-Pm-140



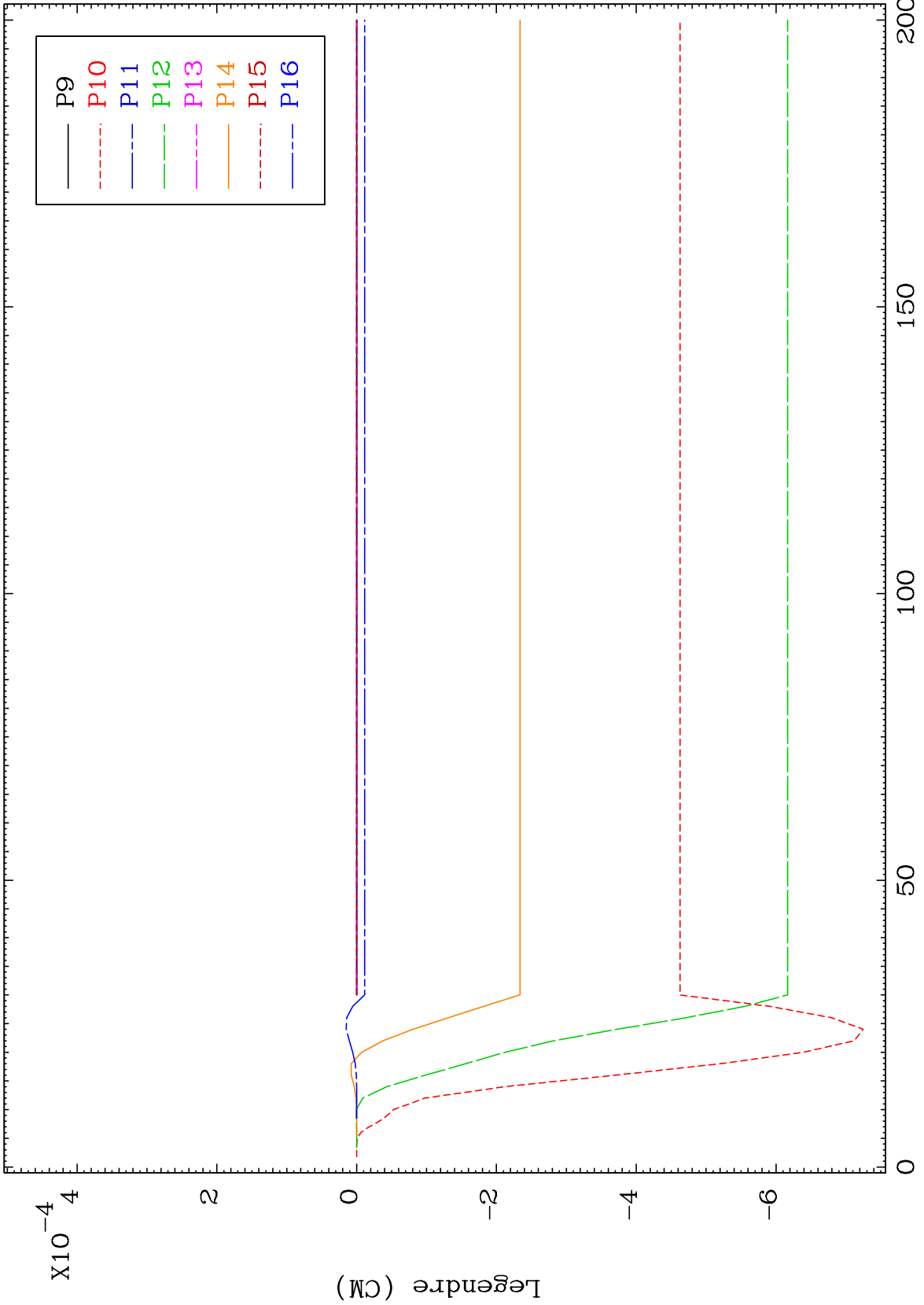
61-Pm-140



MAT 6128

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

61-Pm-140

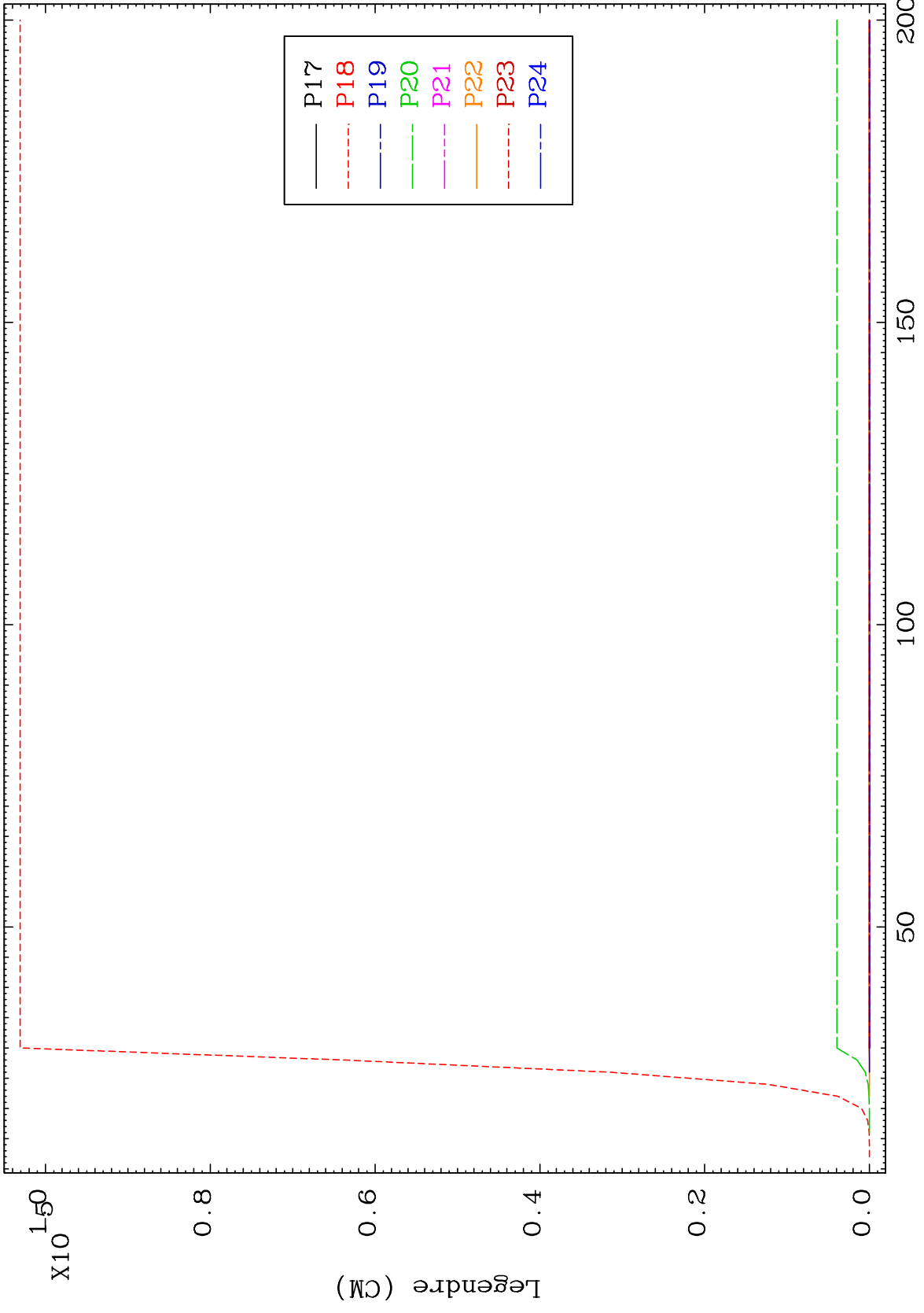


56

Incident Energy (MeV)

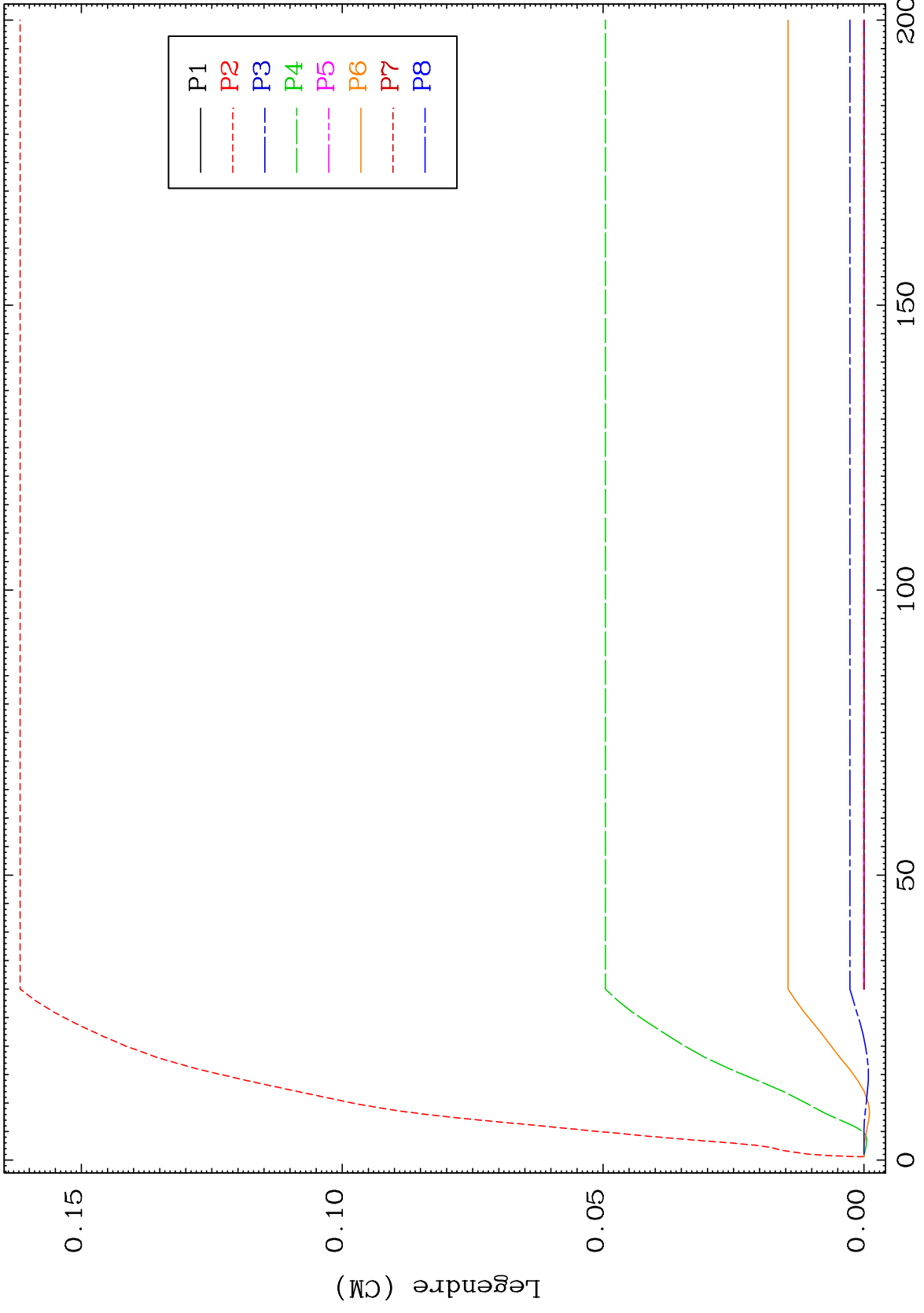
61-Pm-140

MAT 6128 MT= 62 (n,n') Level Legendre Coefficients 61-Pm-140



57 Incident Energy (MeV) 200 61-Pm-140

MAT 6128 MT= 63 (n,n') Level Legendre Coefficients 61-Pm-140

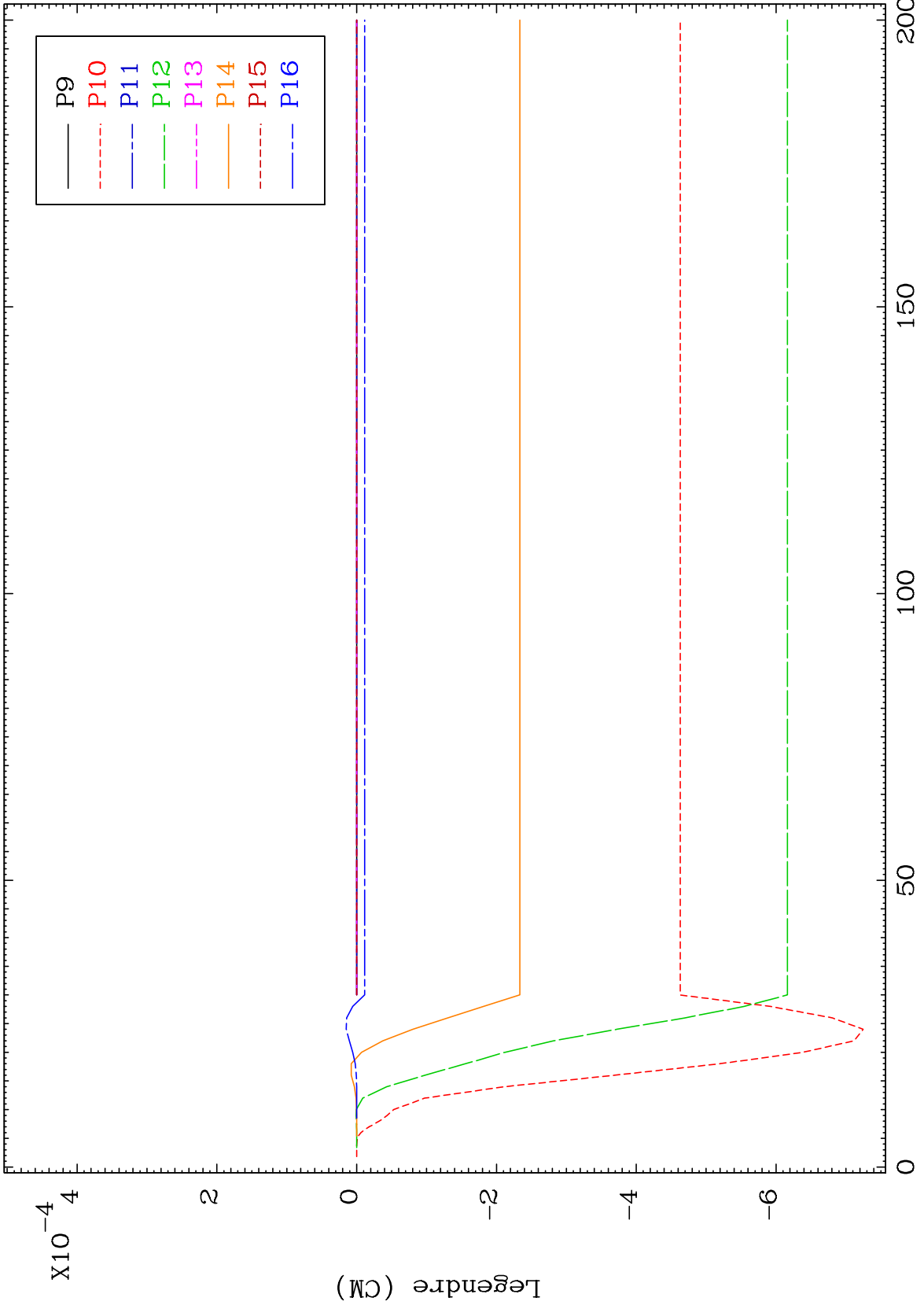


58 61-Pm-140

MAT 6128

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

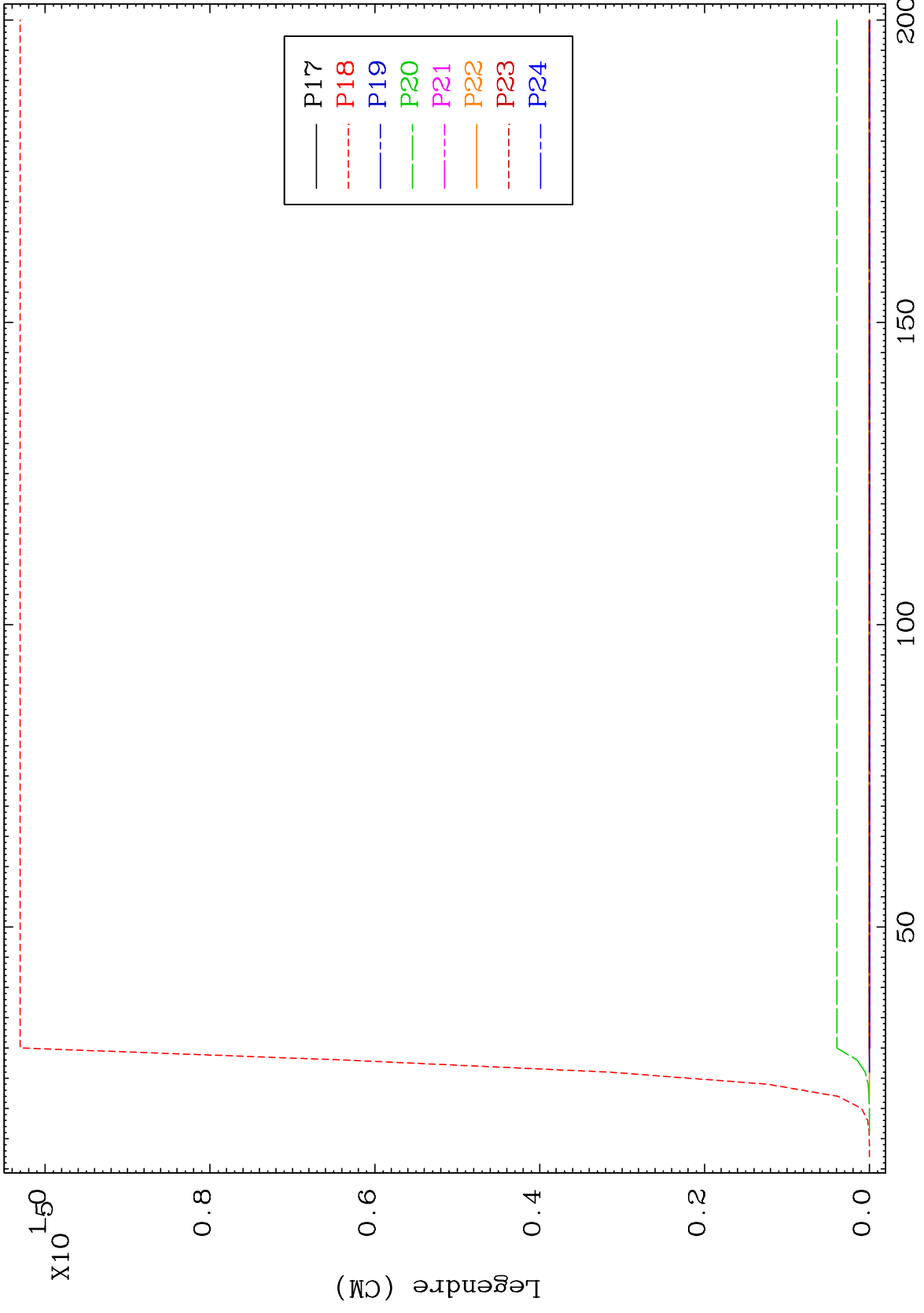
61-Pm-140



59

61-Pm-140

MAT 6128 MT= 63 (n,n') Level Legendre Coefficients 61-Pm-140

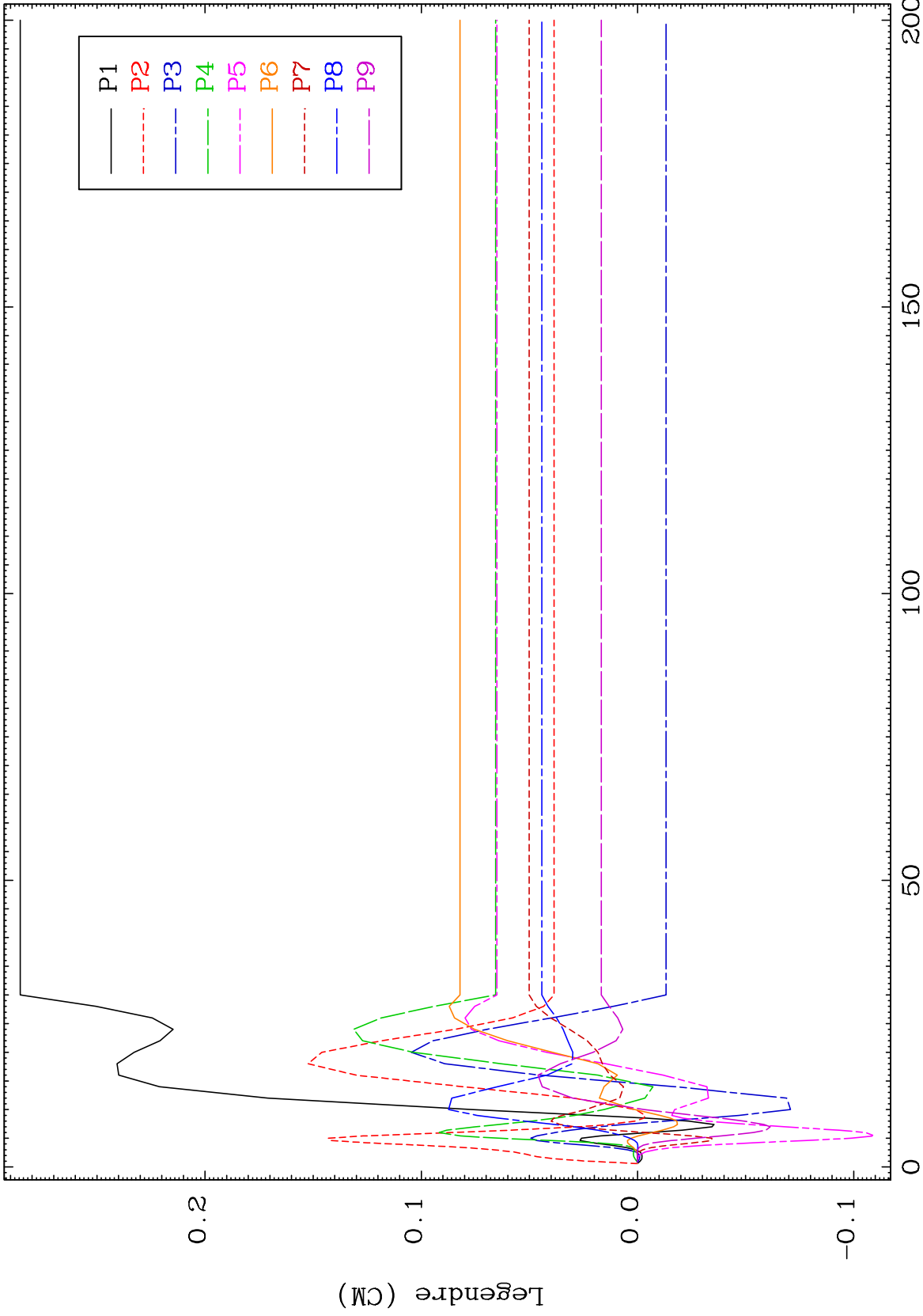


61-Pm-140

MAT 6128

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

61-Pm-140



61

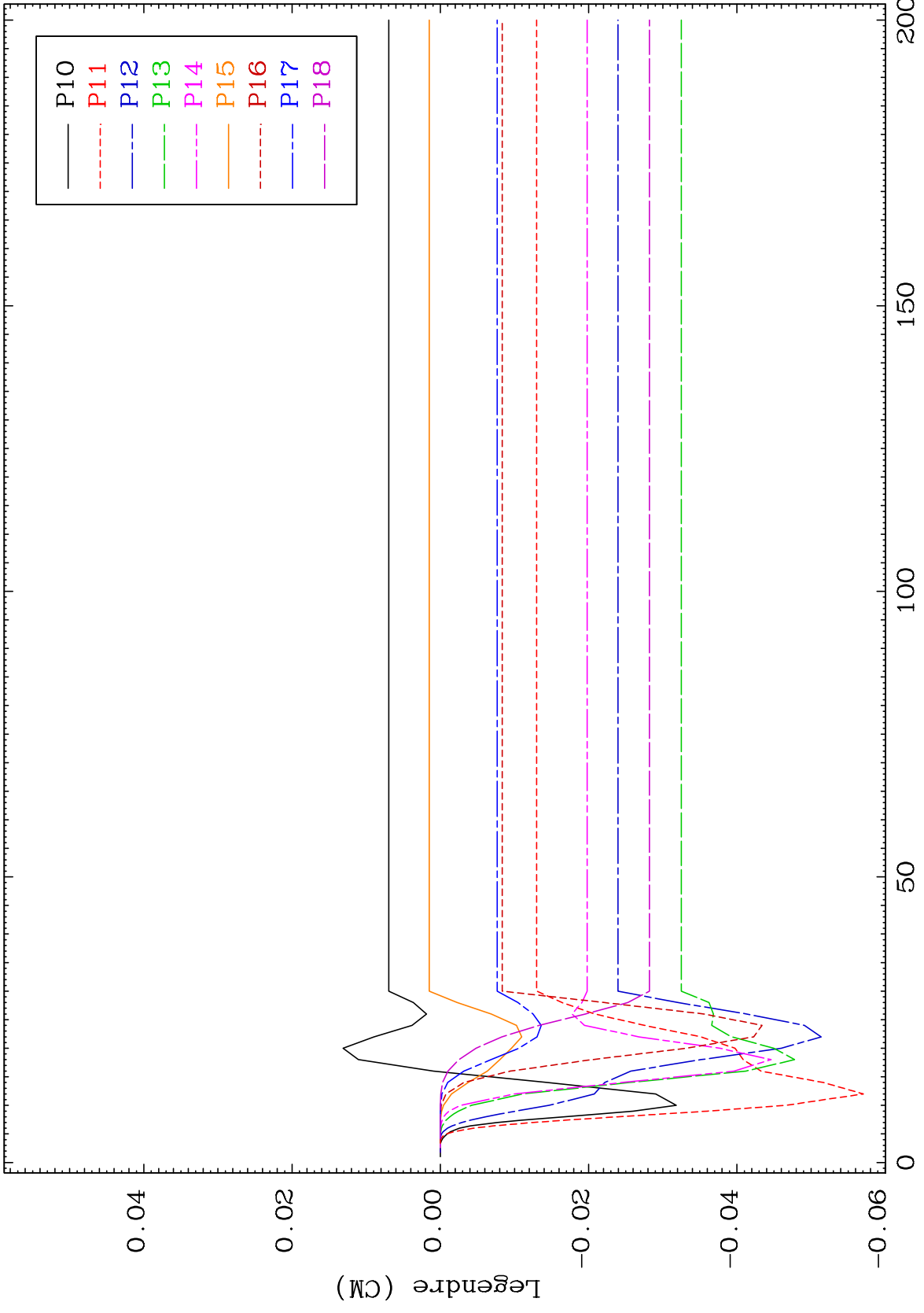
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140

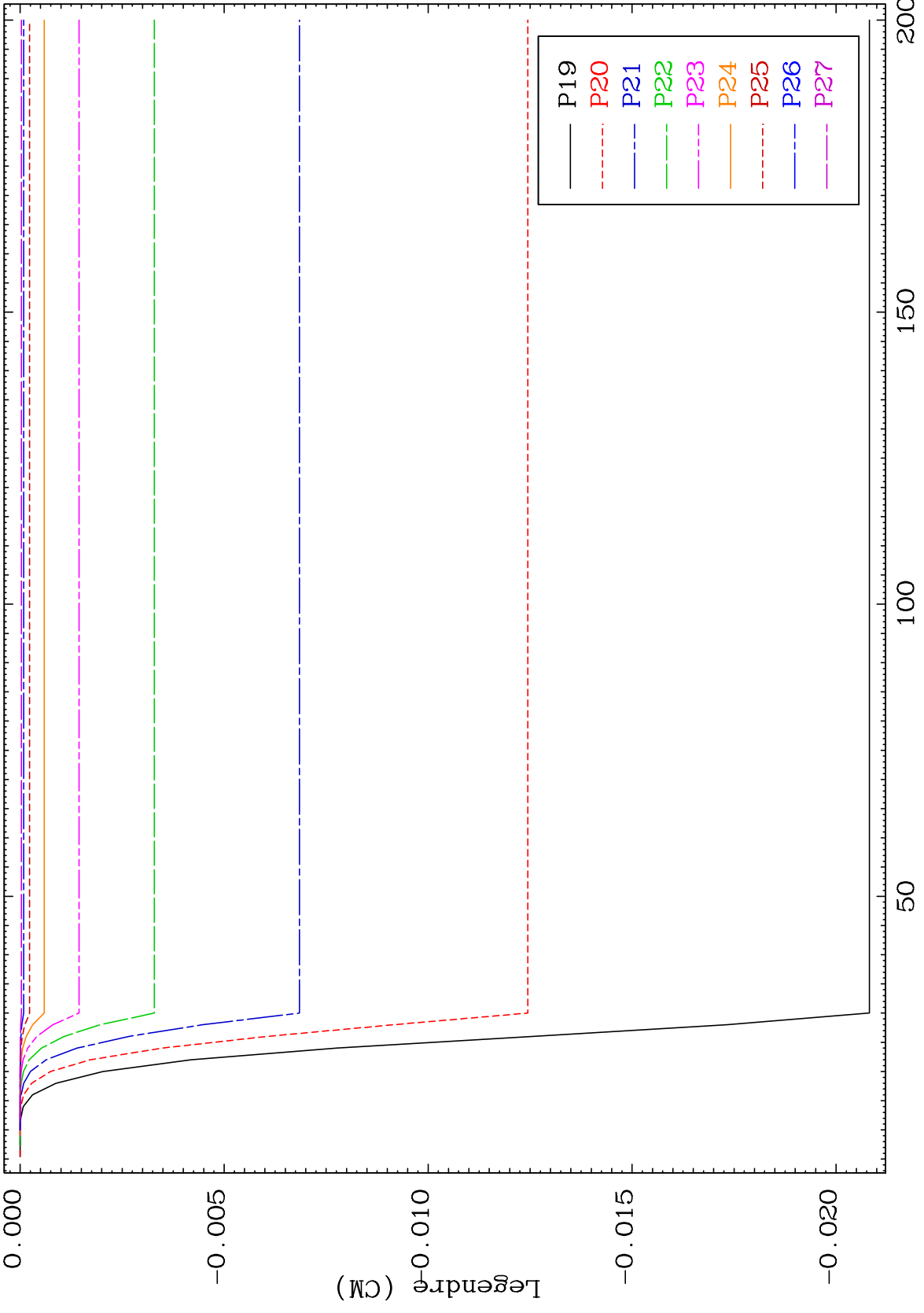


62

Incident Energy (MeV)

61-Pm-140

MAT 6128 MT= 64 (n,n') Level Legendre Coefficients 61-Pm-140



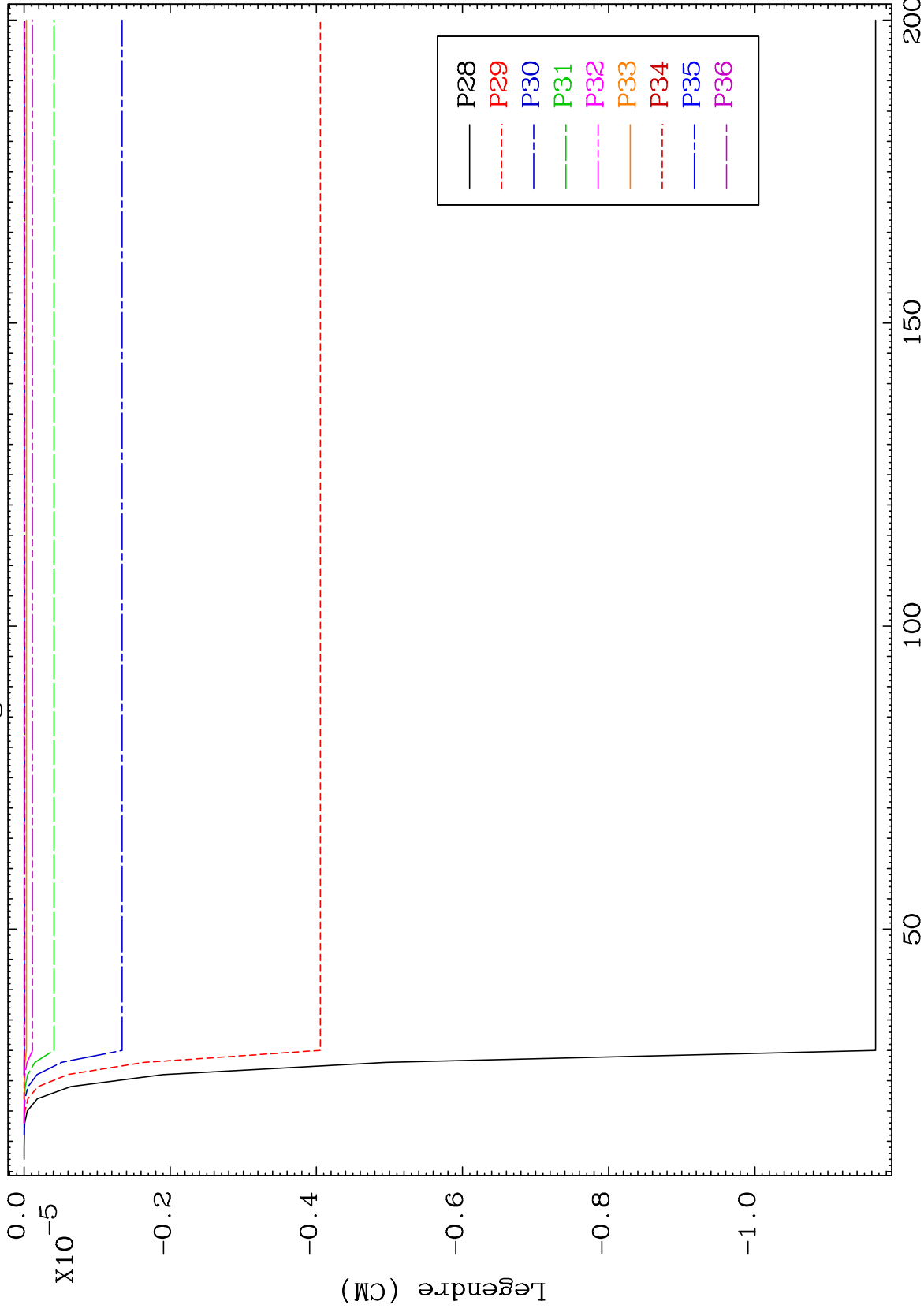
63 61-Pm-140



MAT 6128

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

61-Pm-140

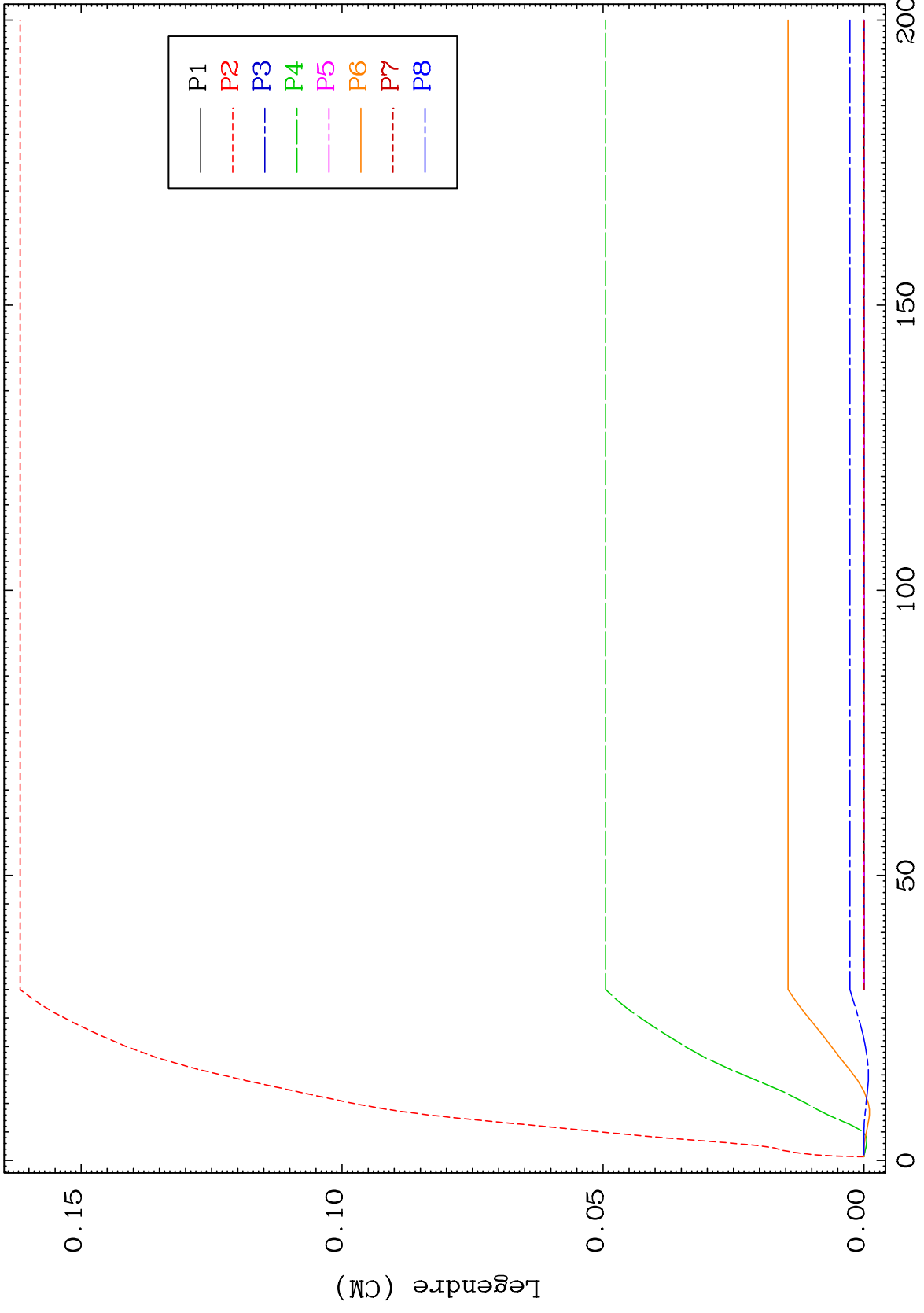


64

Incident Energy (MeV)

61-Pm-140

MAT 6128 MT= 65 (n,n') Level Legendre Coefficients 61-Pm-140

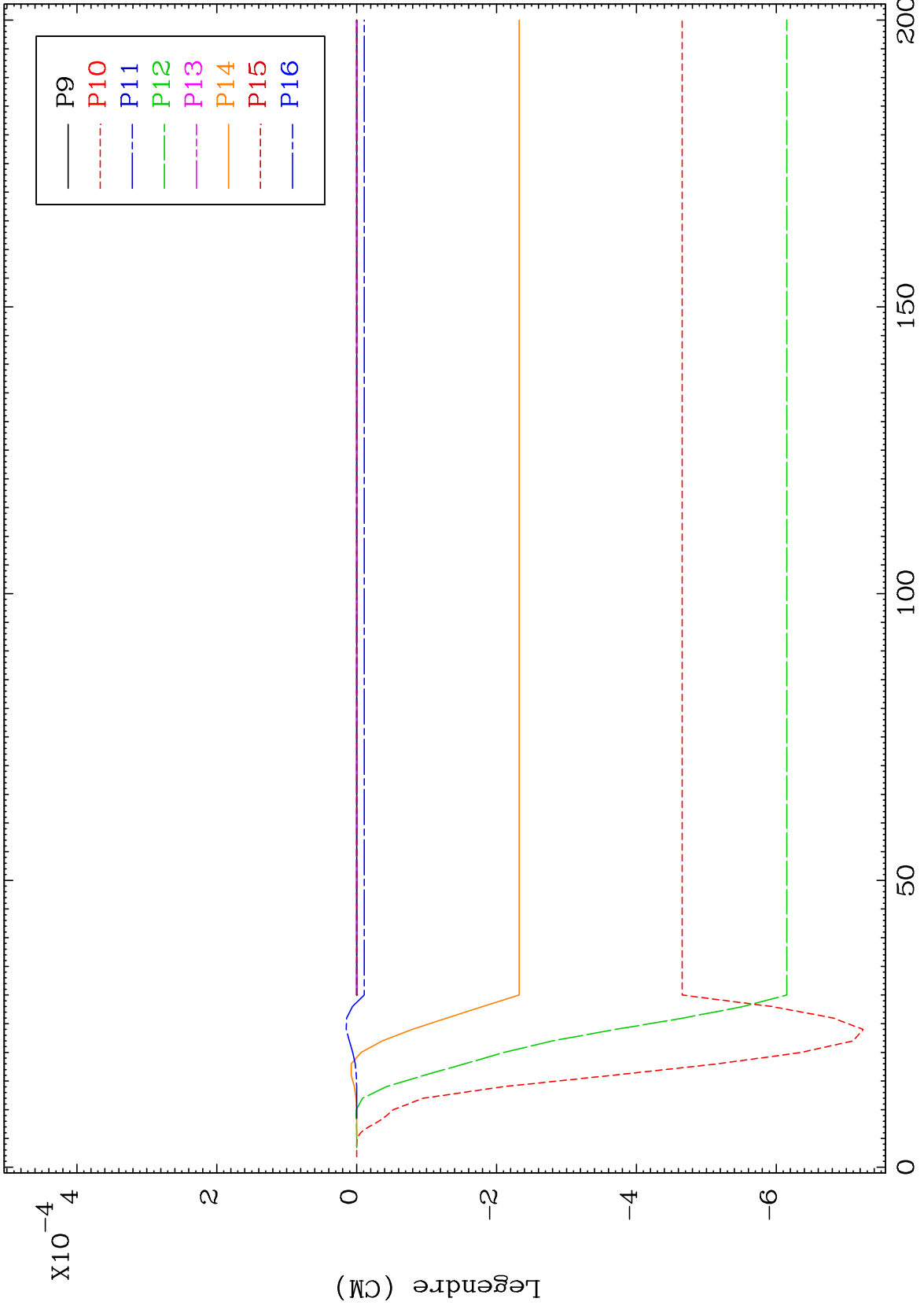


65 61-Pm-140

MAT 6128

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

61-Pm-140

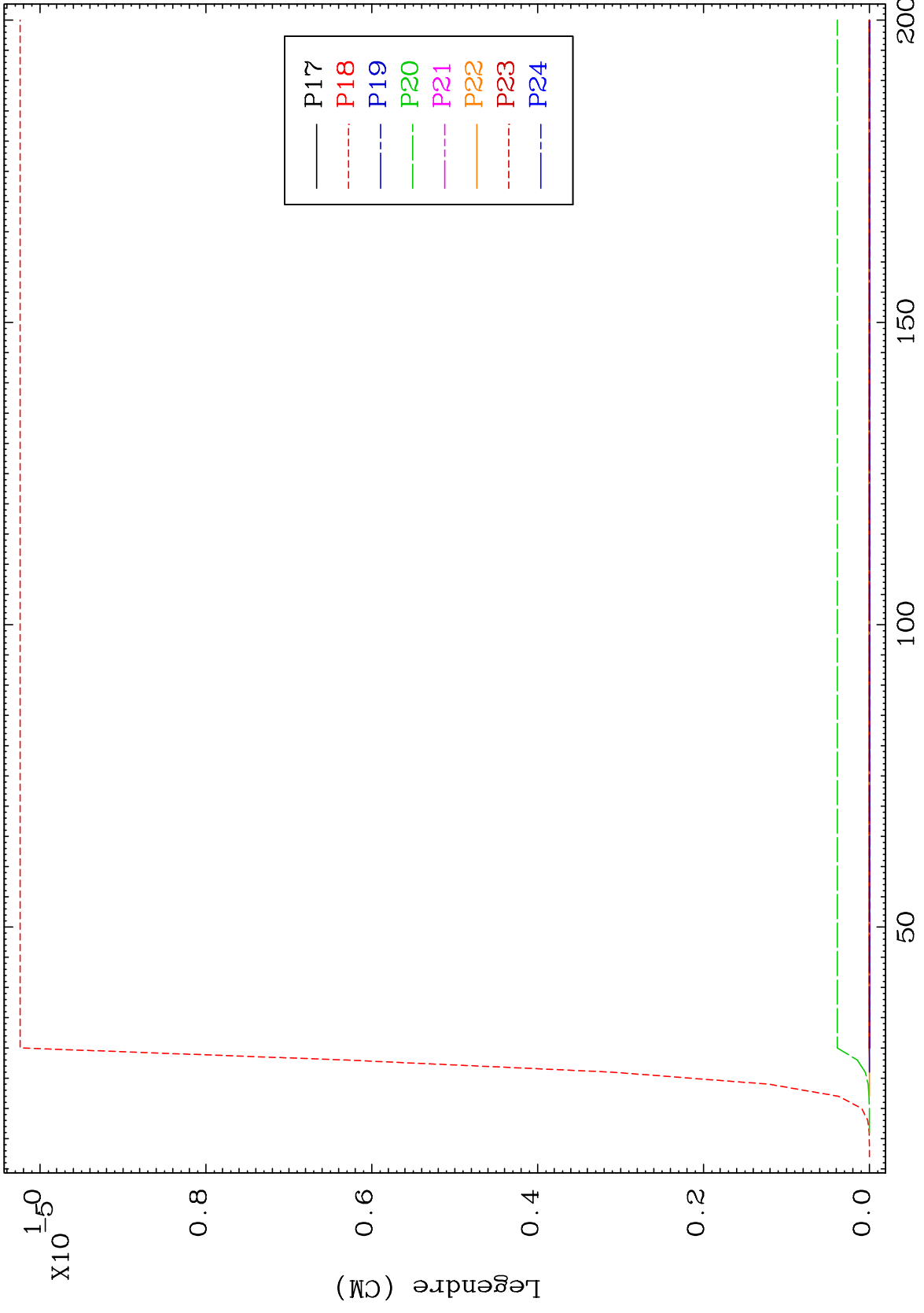


66

Incident Energy (MeV)

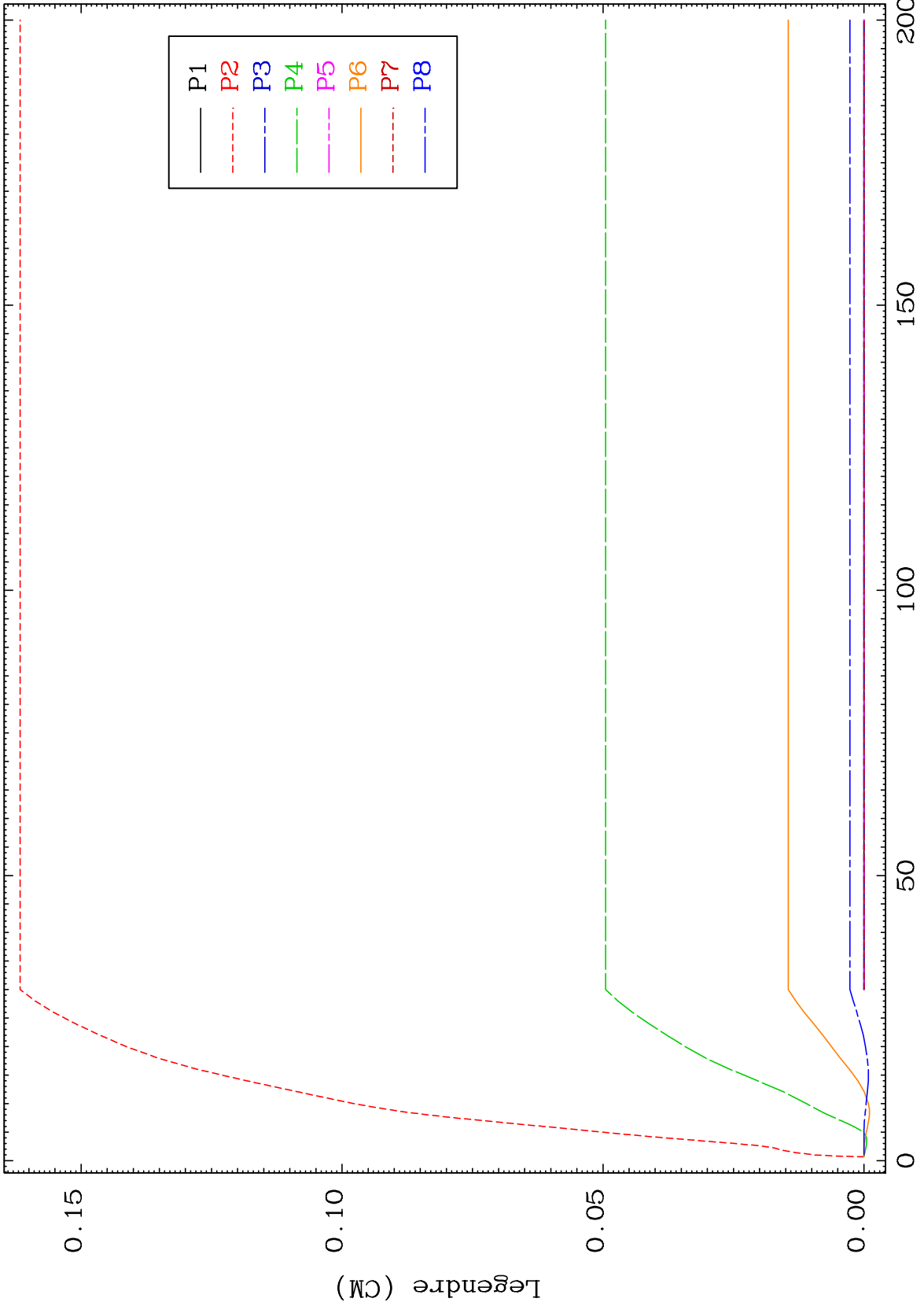
61-Pm-140

MAT 6128 MT= 65 (n,n') Level Legendre Coefficients 61-Pm-140



67 61-Pm-140

MAT 6128 MT= 66 (n,n') Level Legendre Coefficients 61-Pm-140

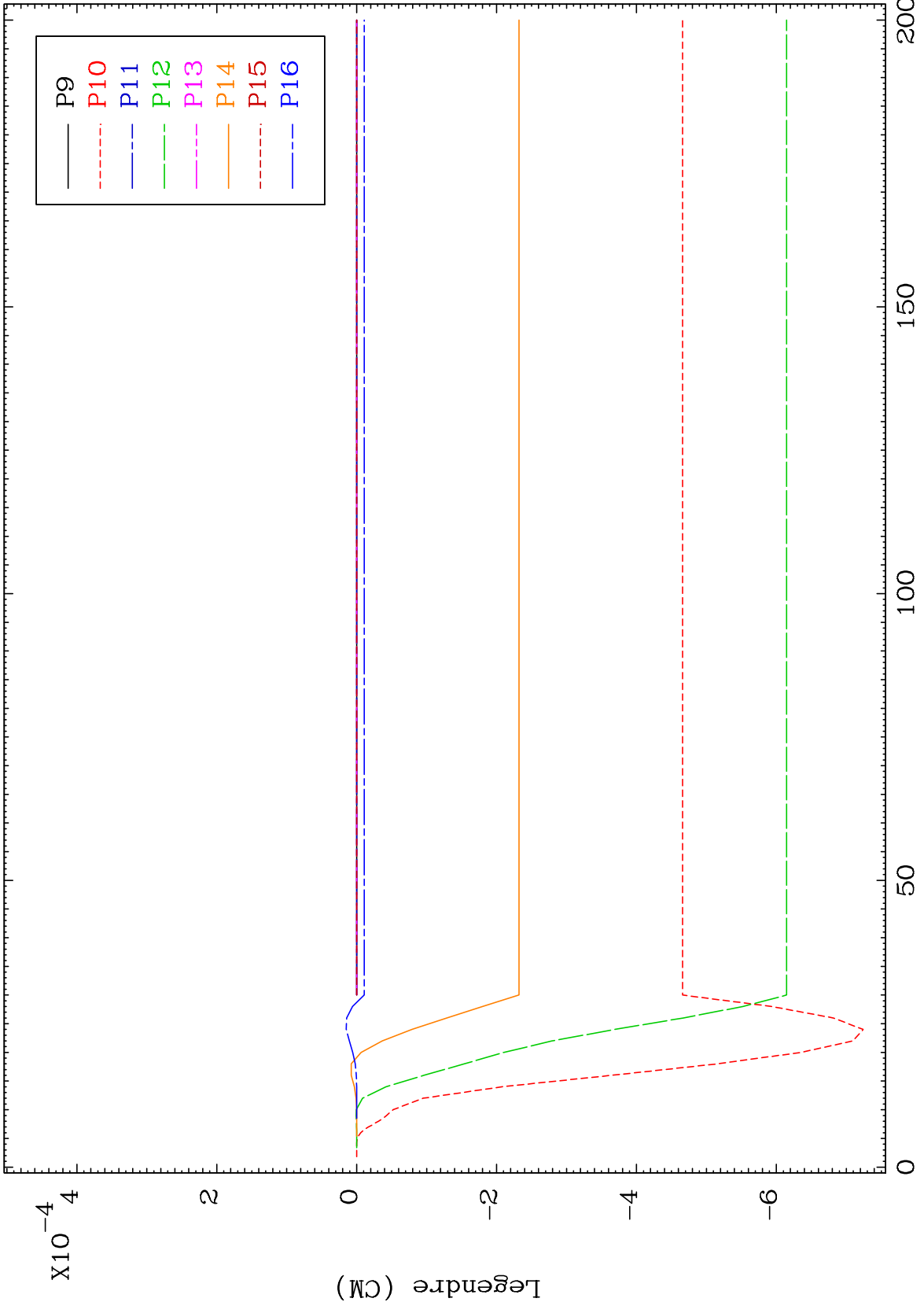


68 61-Pm-140

MAT 6128

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

61-Pm-140

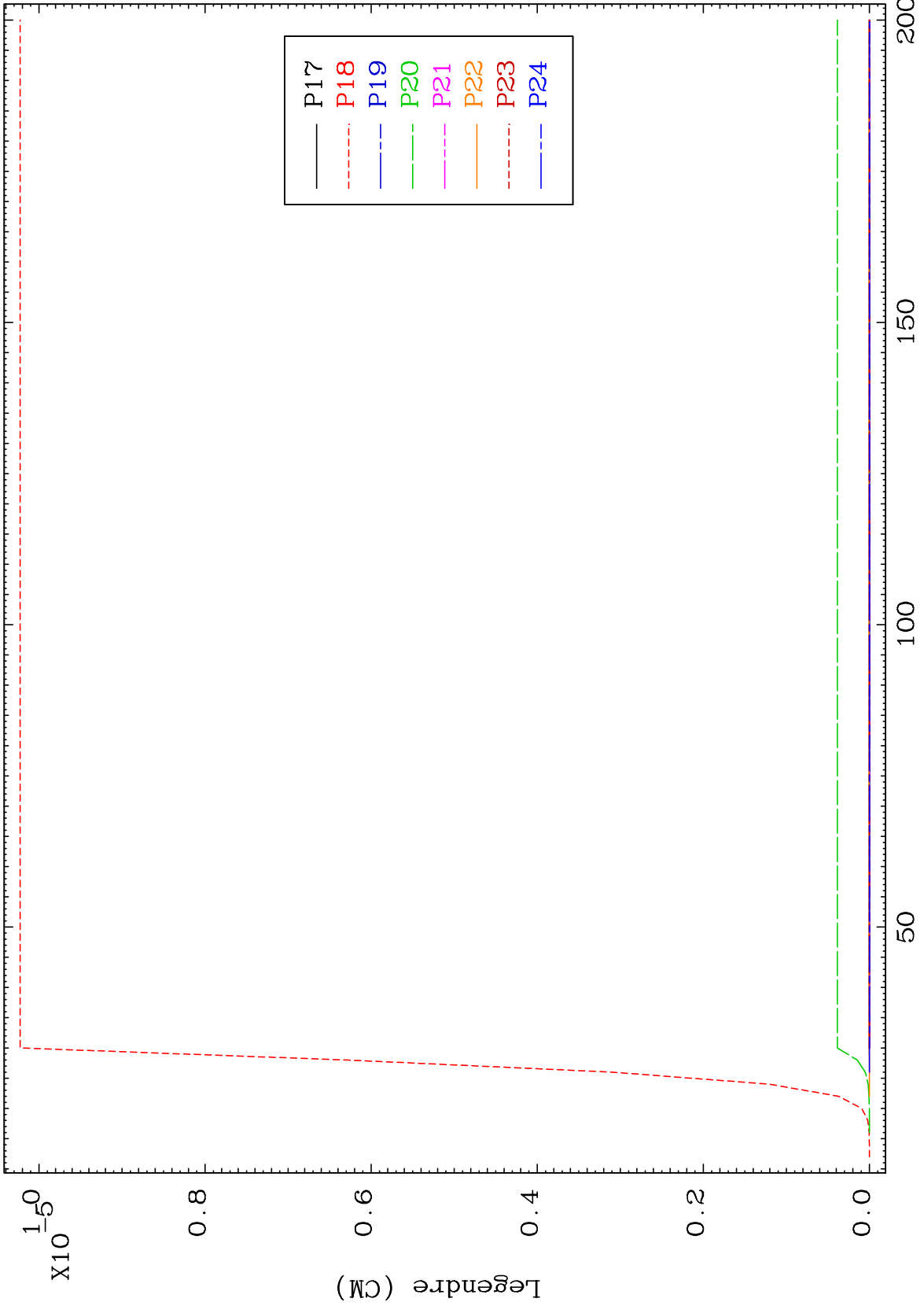


69

Incident Energy (MeV)

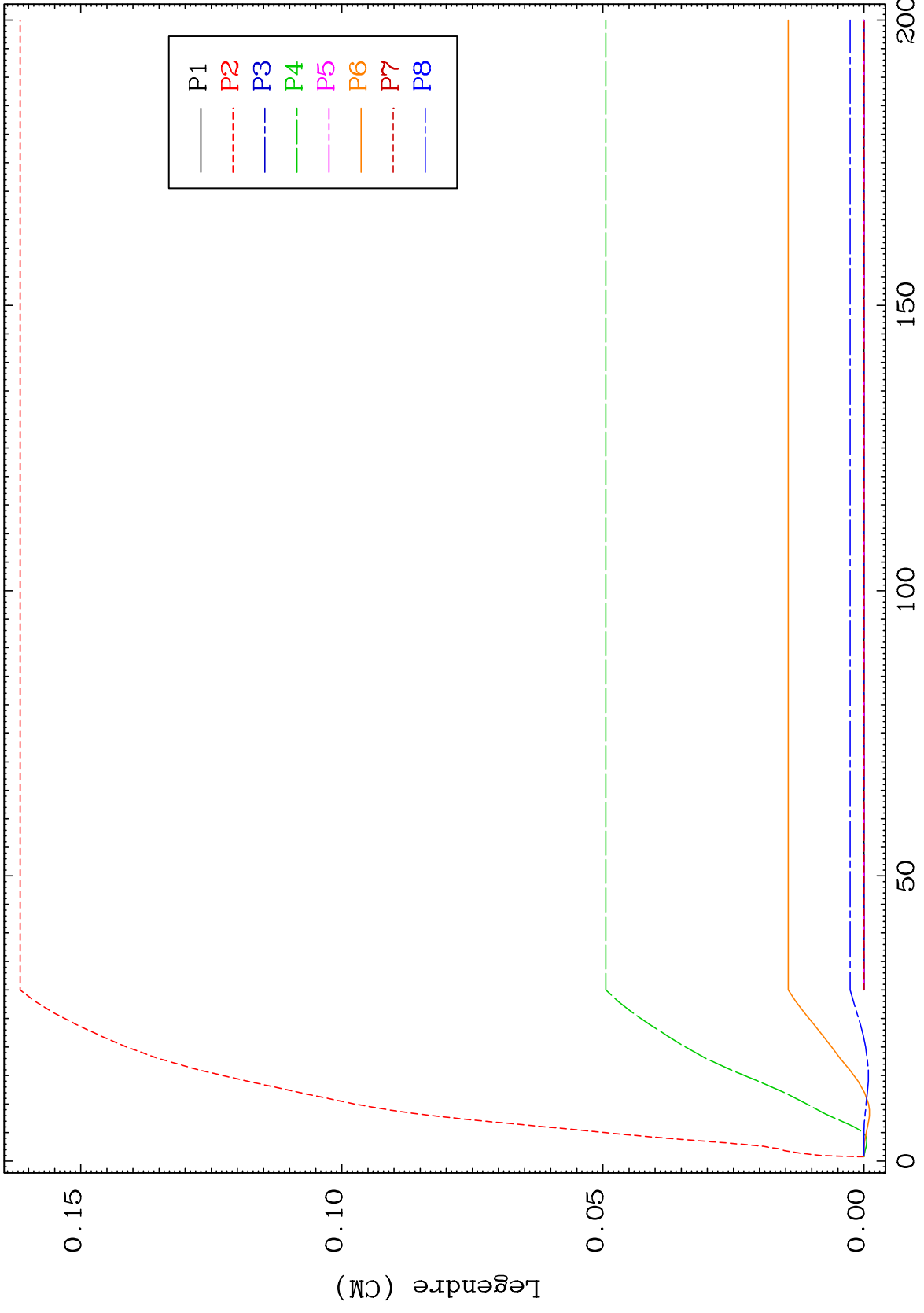
61-Pm-140

MAT 6128 MT= 66 (n,n') Level Legendre Coefficients 61-Pm-140



70 Incident Energy (MeV) 150 200 61-Pm-140

MAT 6128 MT= 67 (n,n') Level Legendre Coefficients 61-Pm-140



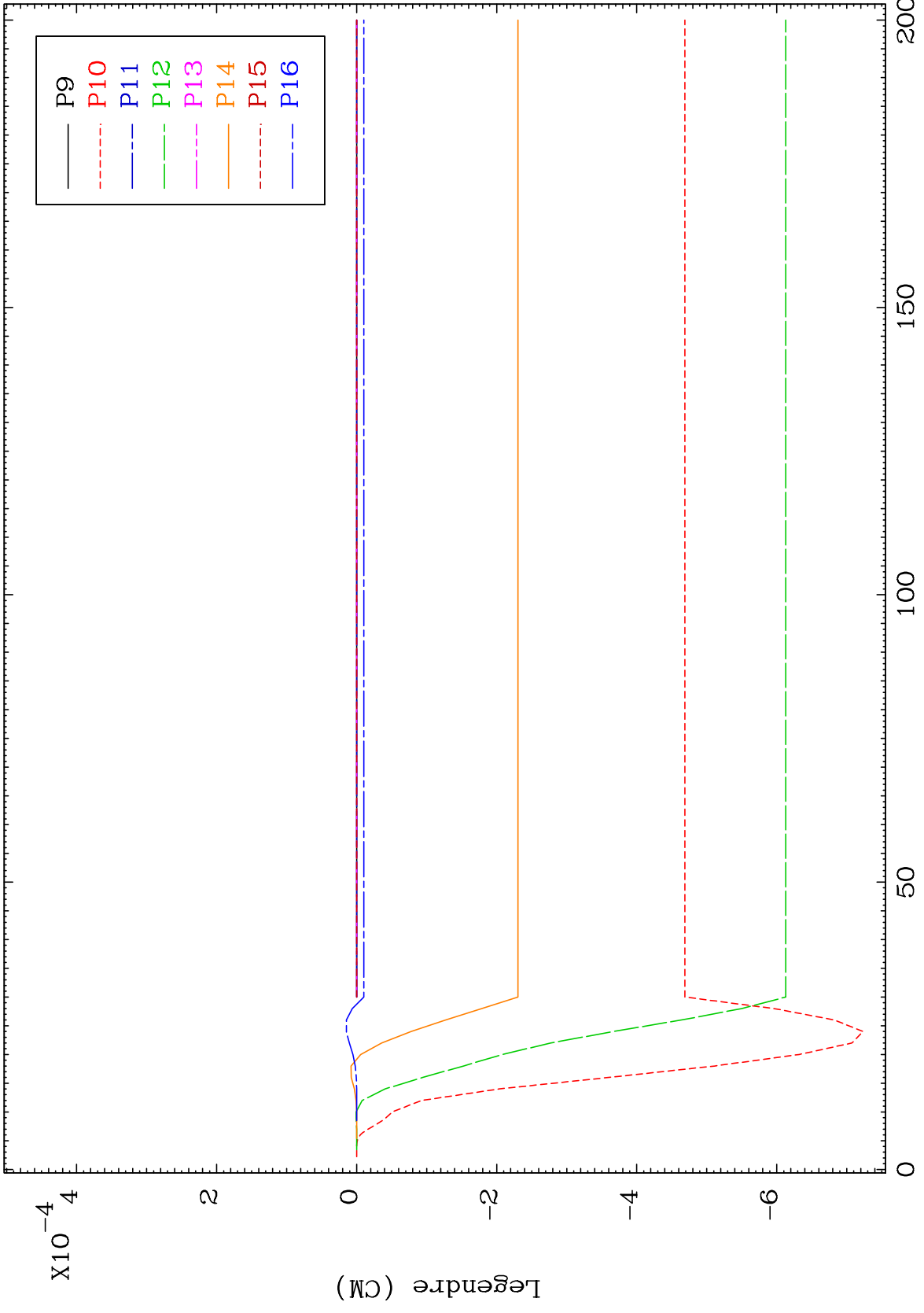
71 61-Pm-140



MAT 6128

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

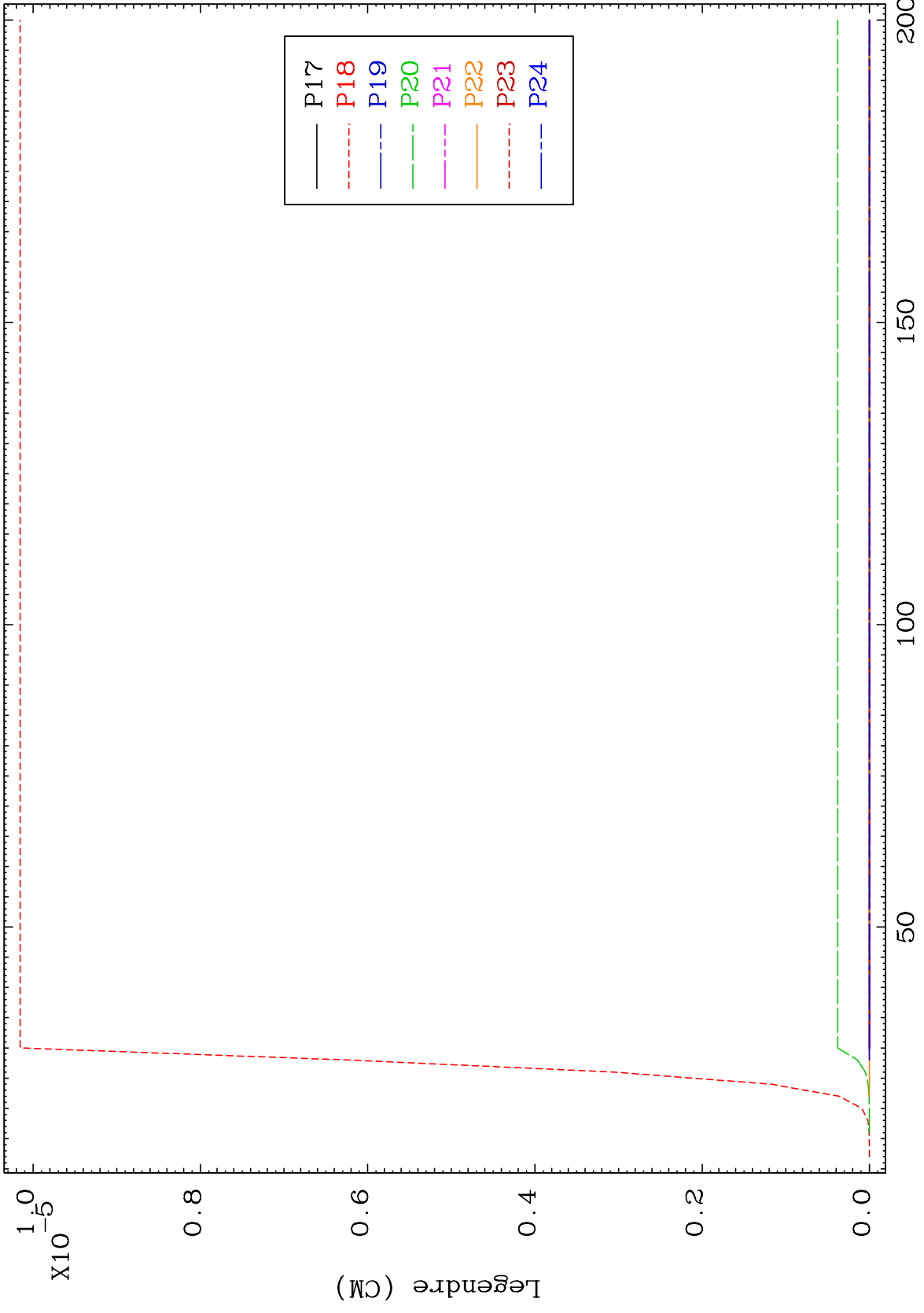
61-Pm-140



72

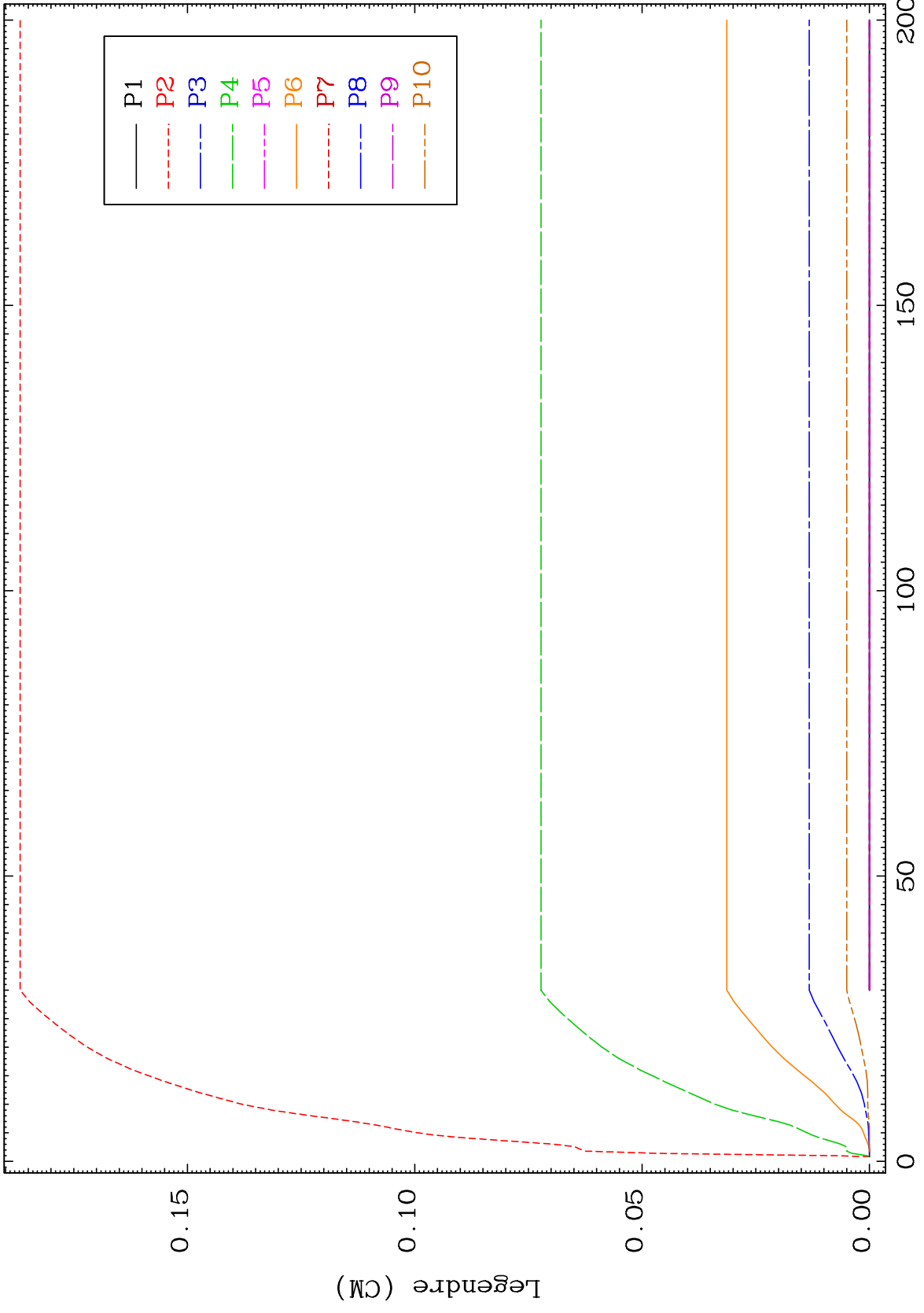
61-Pm-140

MAT 6128 MT= 67 (n,n') Level Legendre Coefficients 61-Pm-140



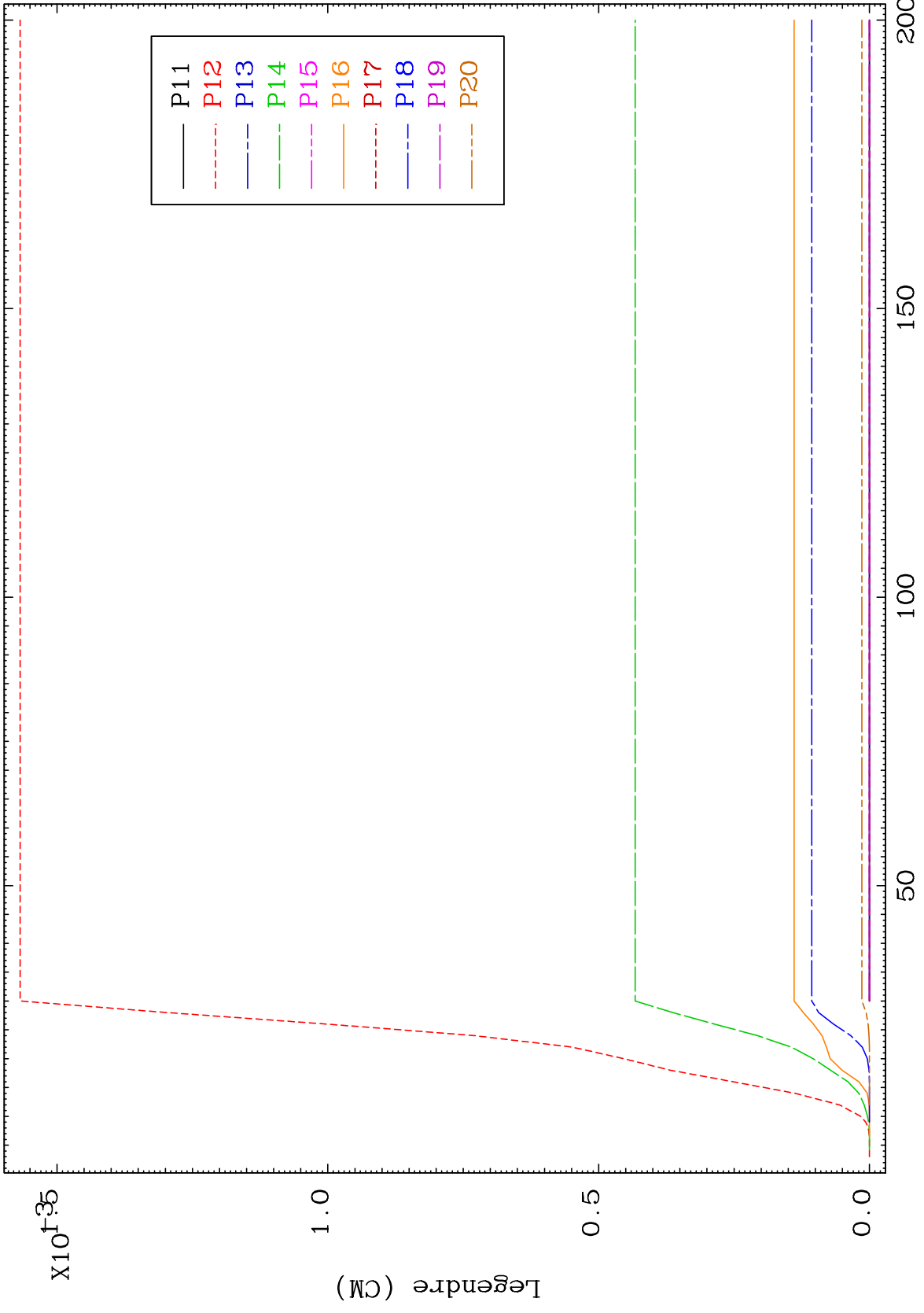
73 Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 68 (n,n') Level Legendre Coefficients 61-Pm-140



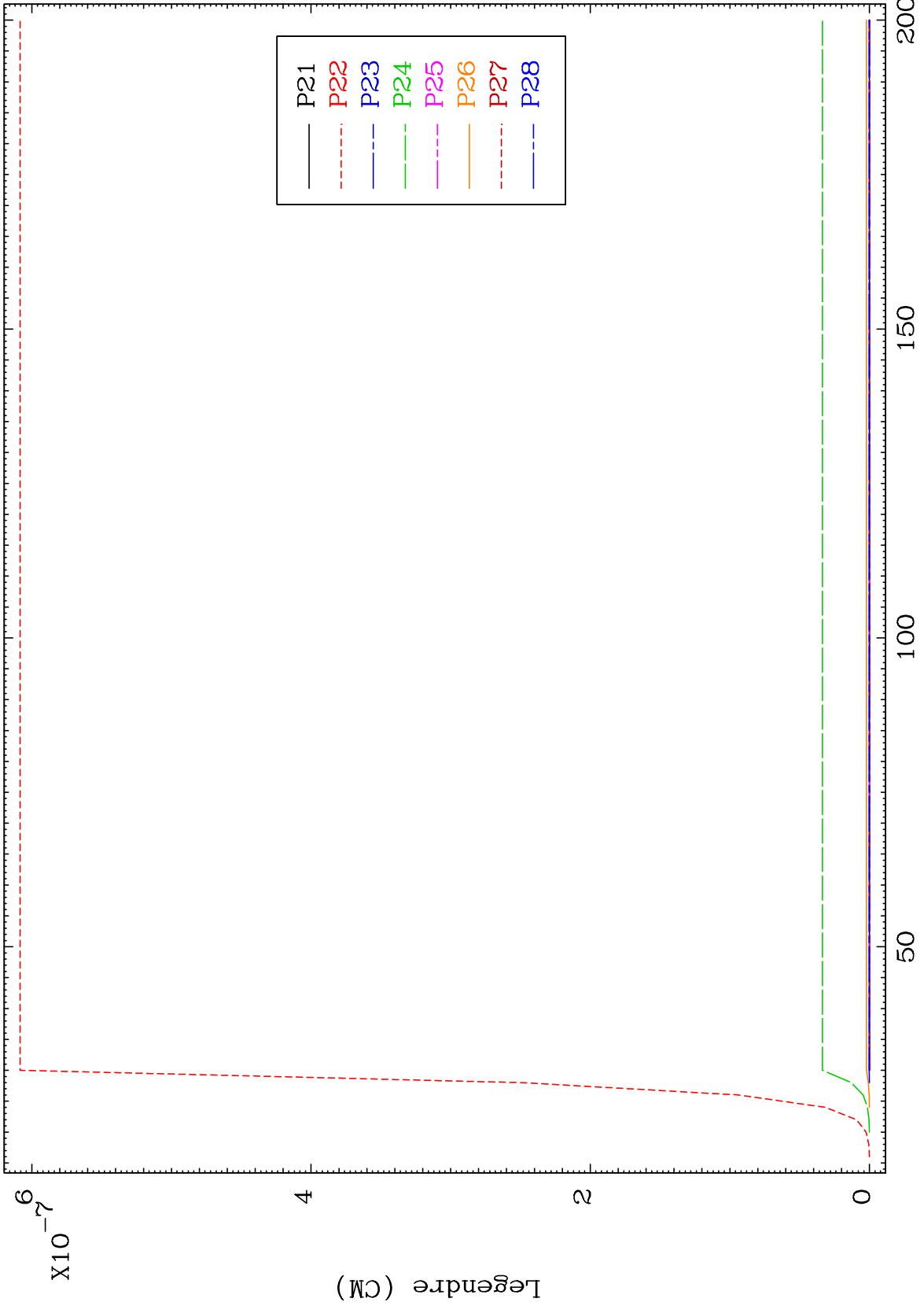
74 61-Pm-140

MAT 6128 MT= 68 (n,n') Level Legendre Coefficients 61-Pm-140



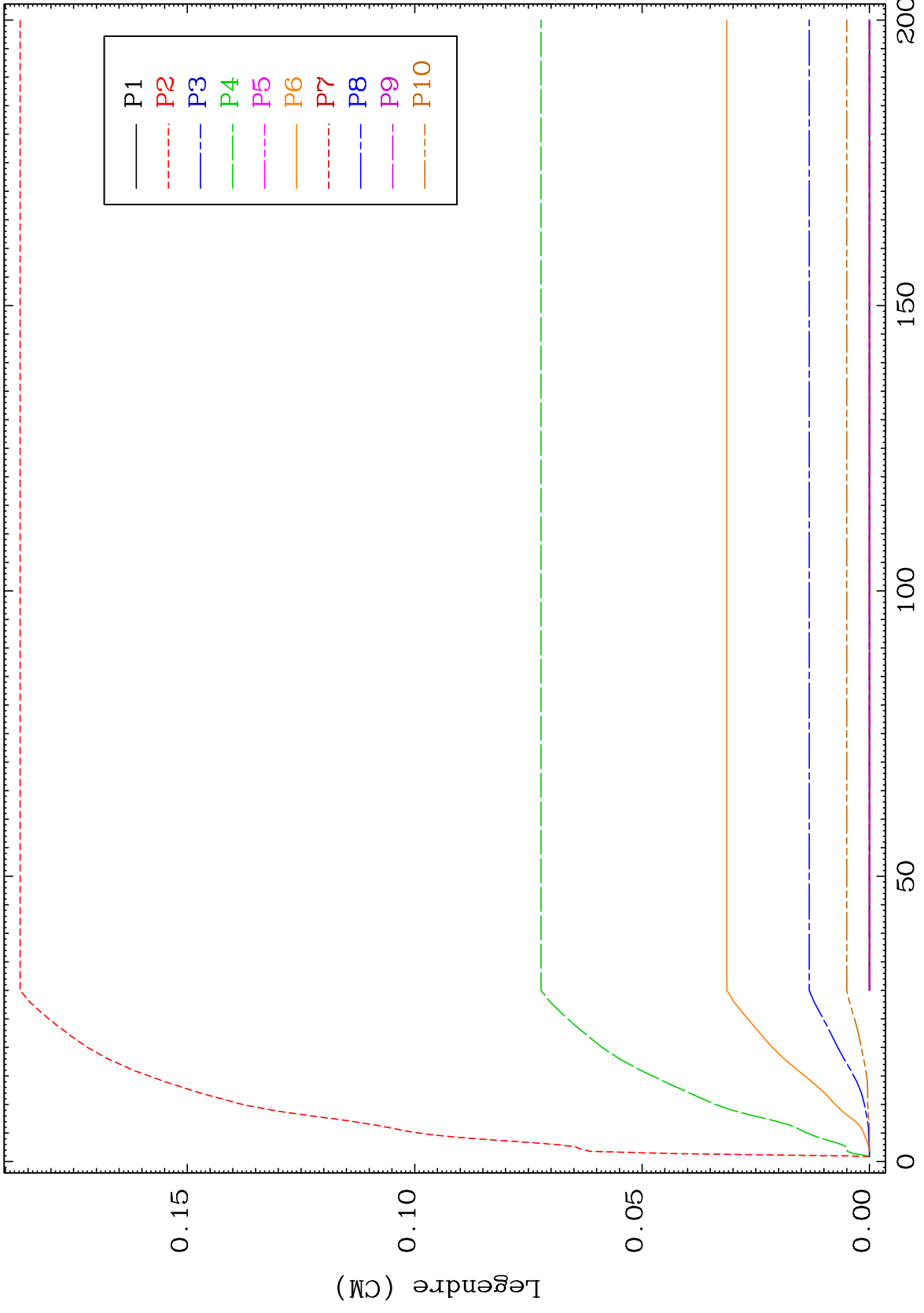
75 Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 68 (n,n') Level Legendre Coefficients 61-Pm-140



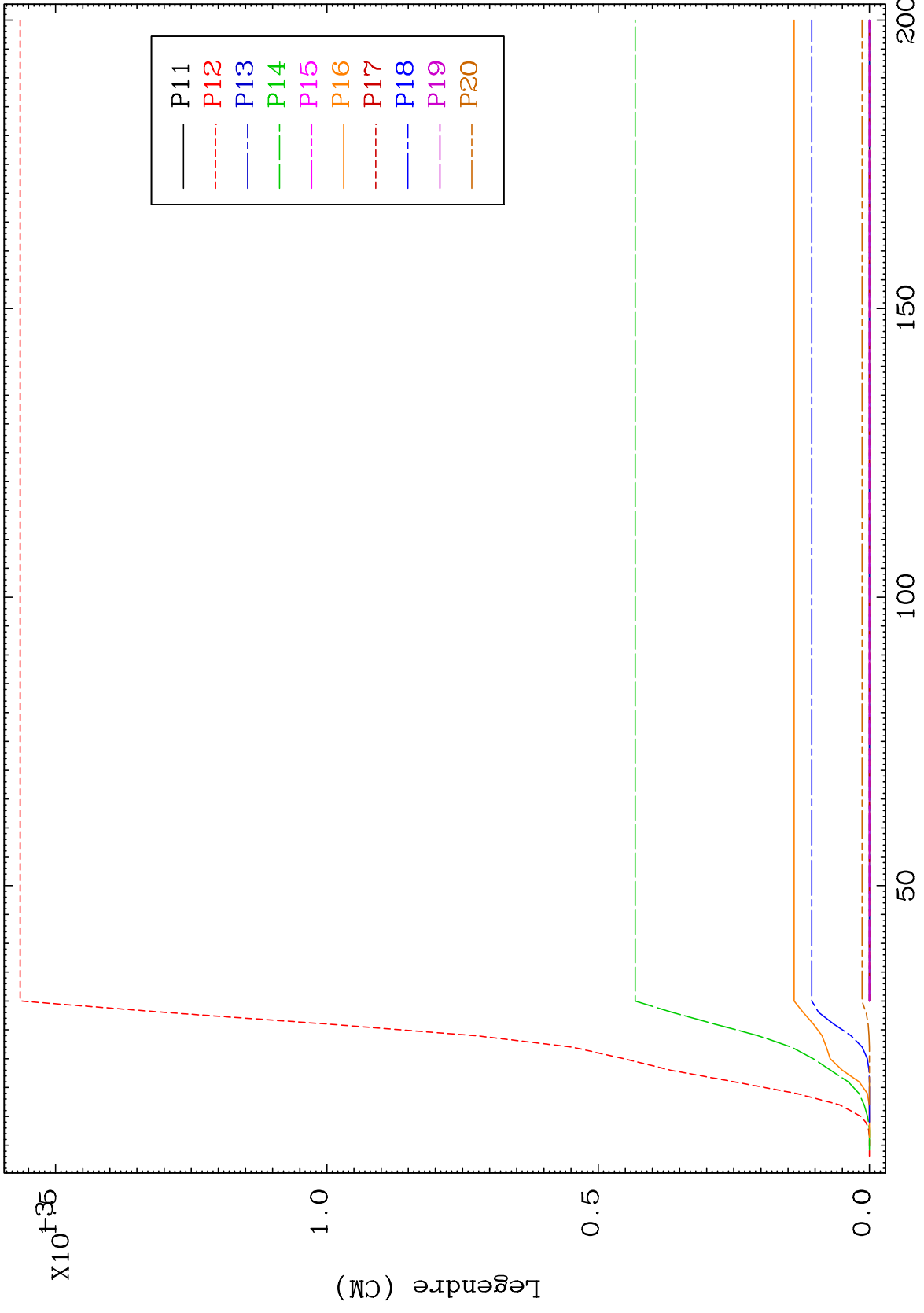
76 Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 69 (n,n') Level Legendre Coefficients 61-Pm-140



77 Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 69 (n,n') Level Legendre Coefficients 61-Pm-140

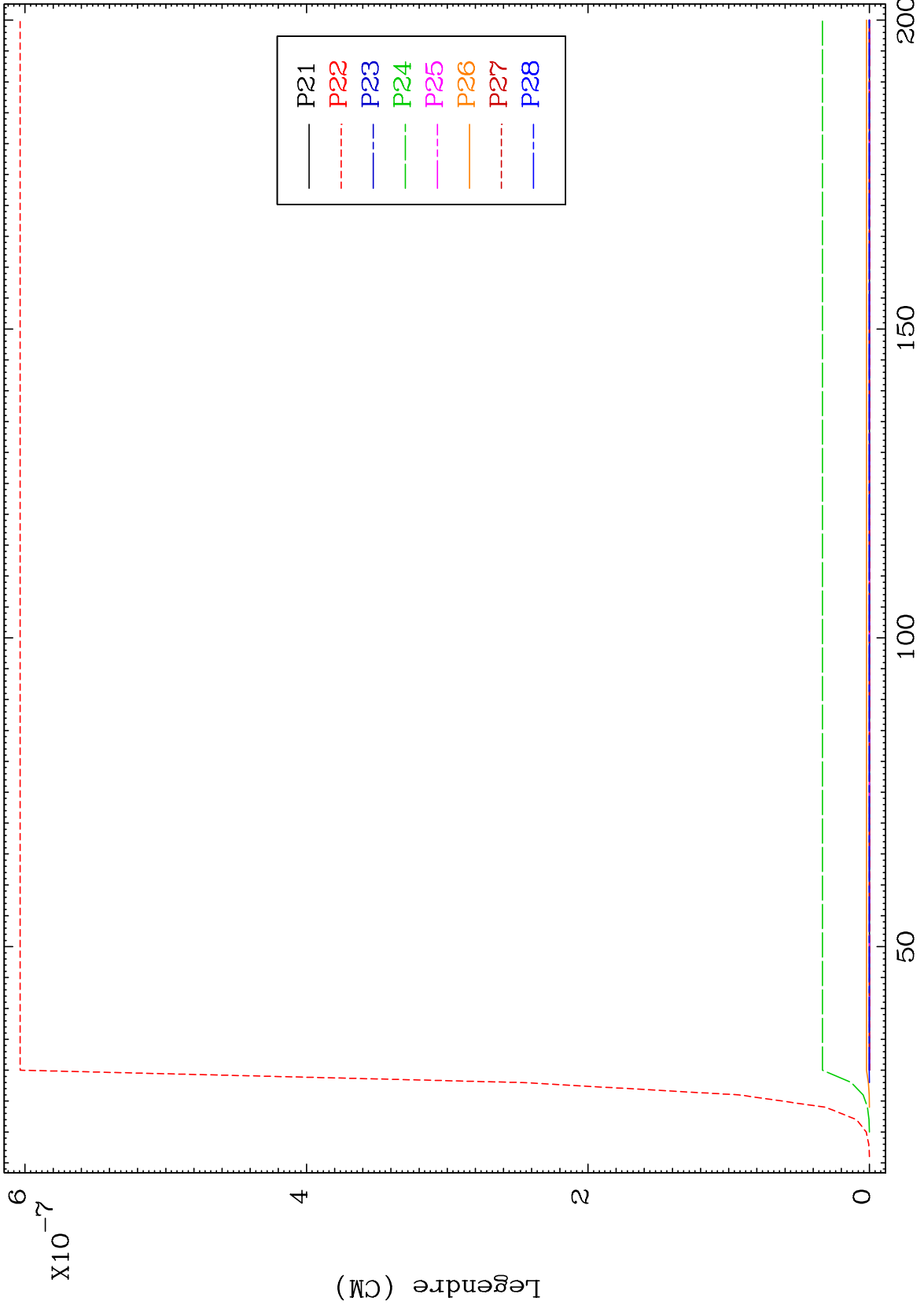


78 Incident Energy (MeV) 61-Pm-140

MAT 6128

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

61-Pm-140



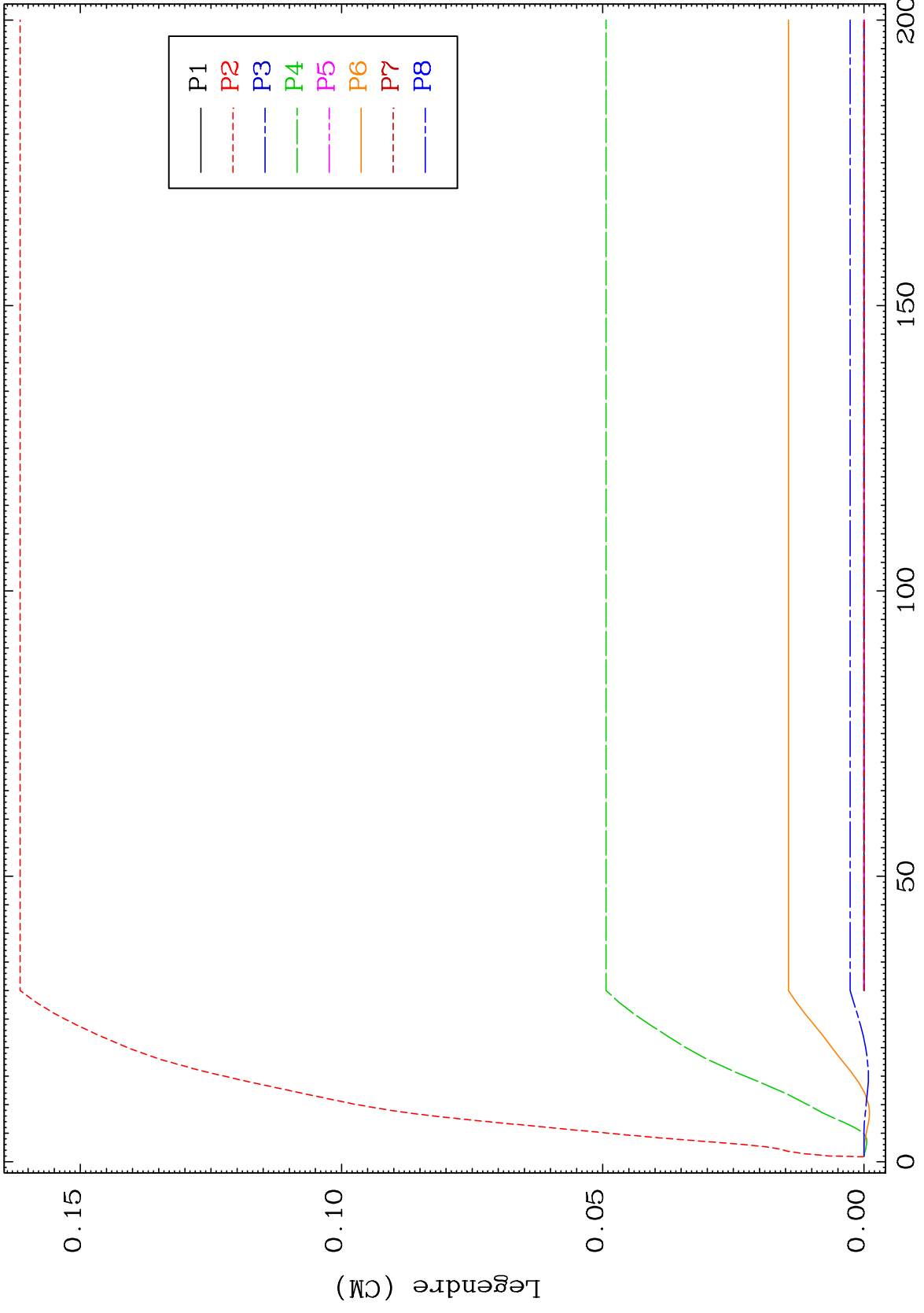
79

Incident Energy (MeV)

61-Pm-140



MAT 6128 MT= 70 (n,n') Level Legendre Coefficients 61-Pm-140

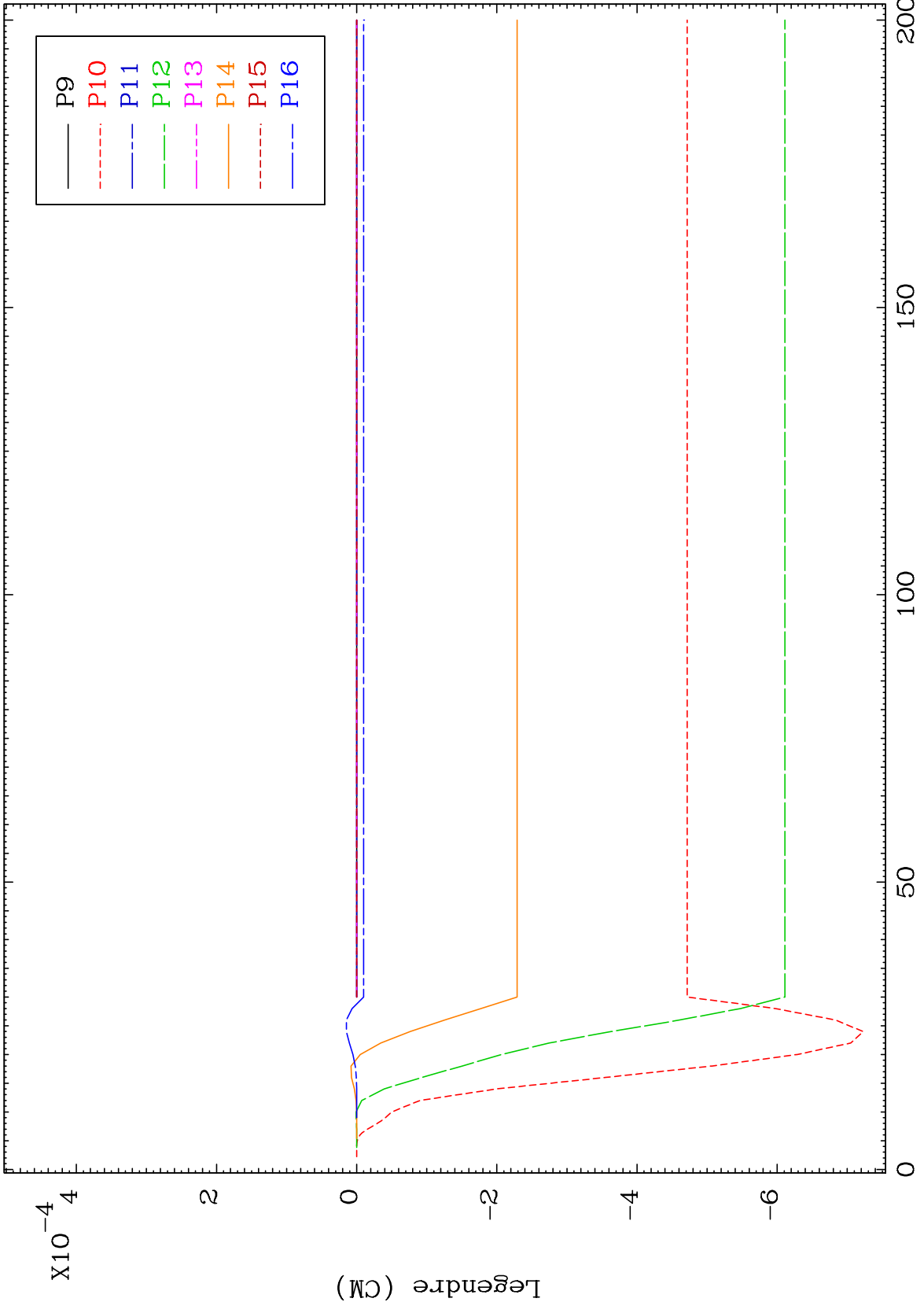


Legendre (CM) Incident Energy (MeV) 61-Pm-140

MAT 6128

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

61-Pm-140

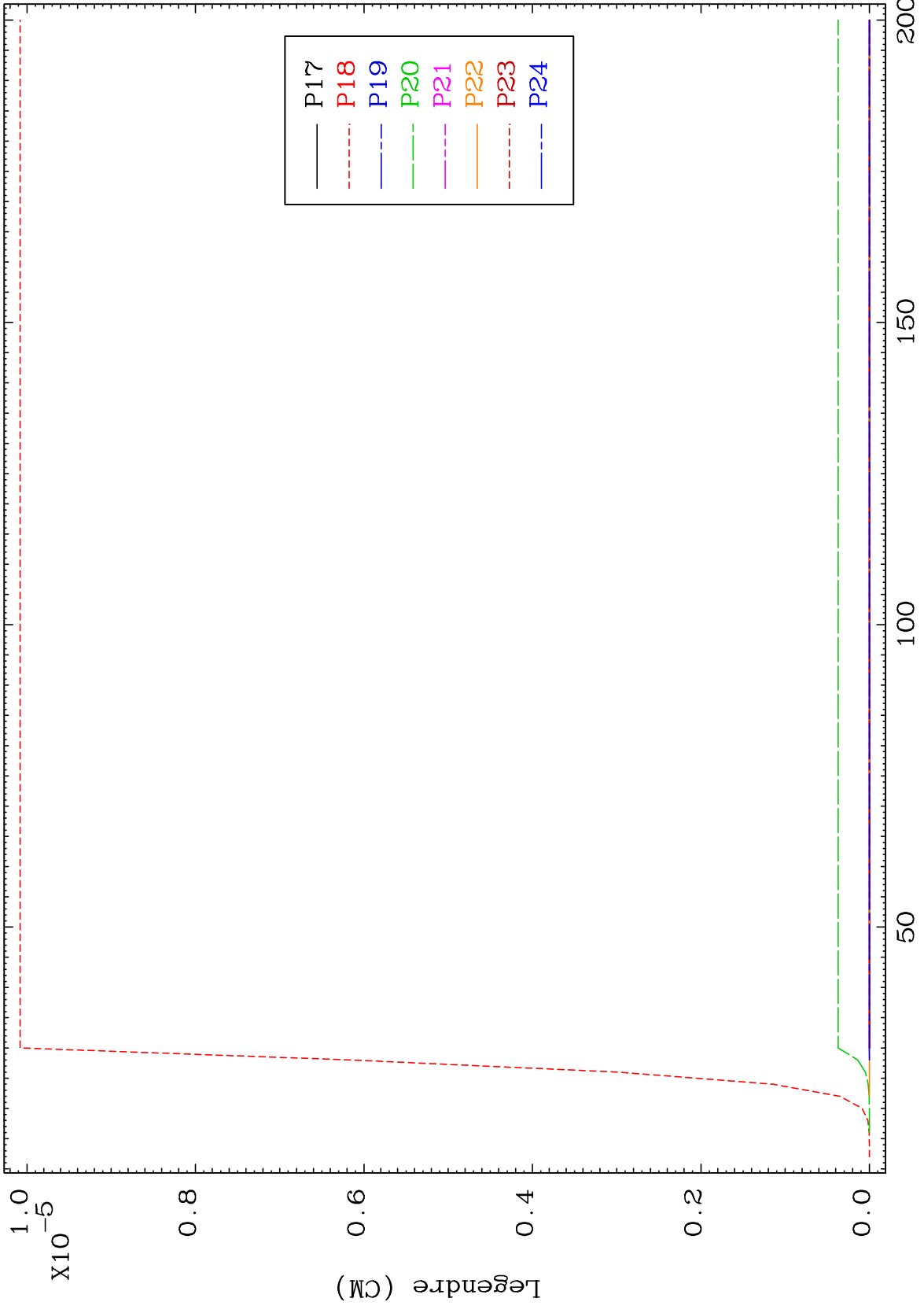


81

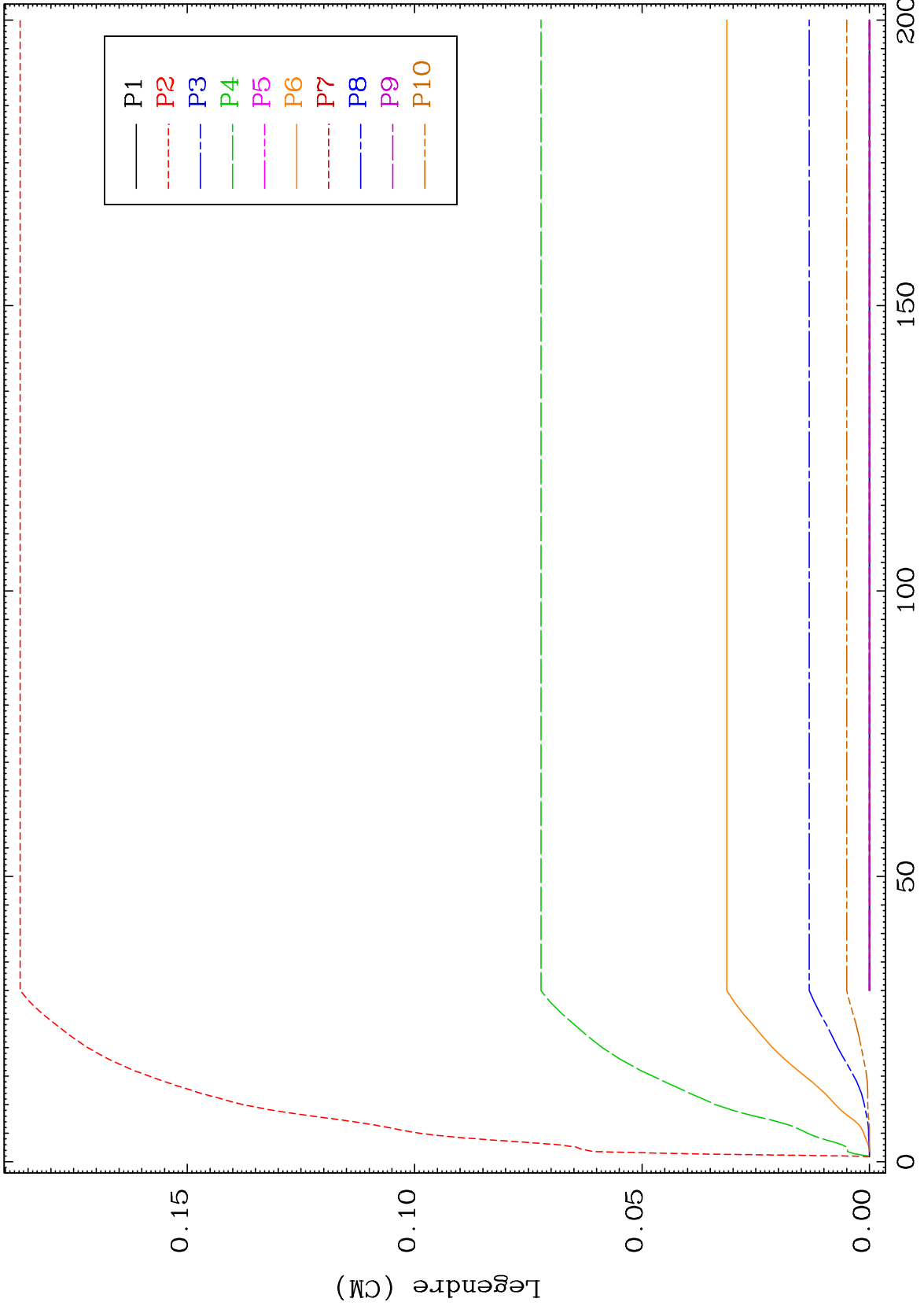
Incident Energy (MeV)

61-Pm-140

MAT 6128 MT= 70 (n,n') Level Legendre Coefficients 61-Pm-140

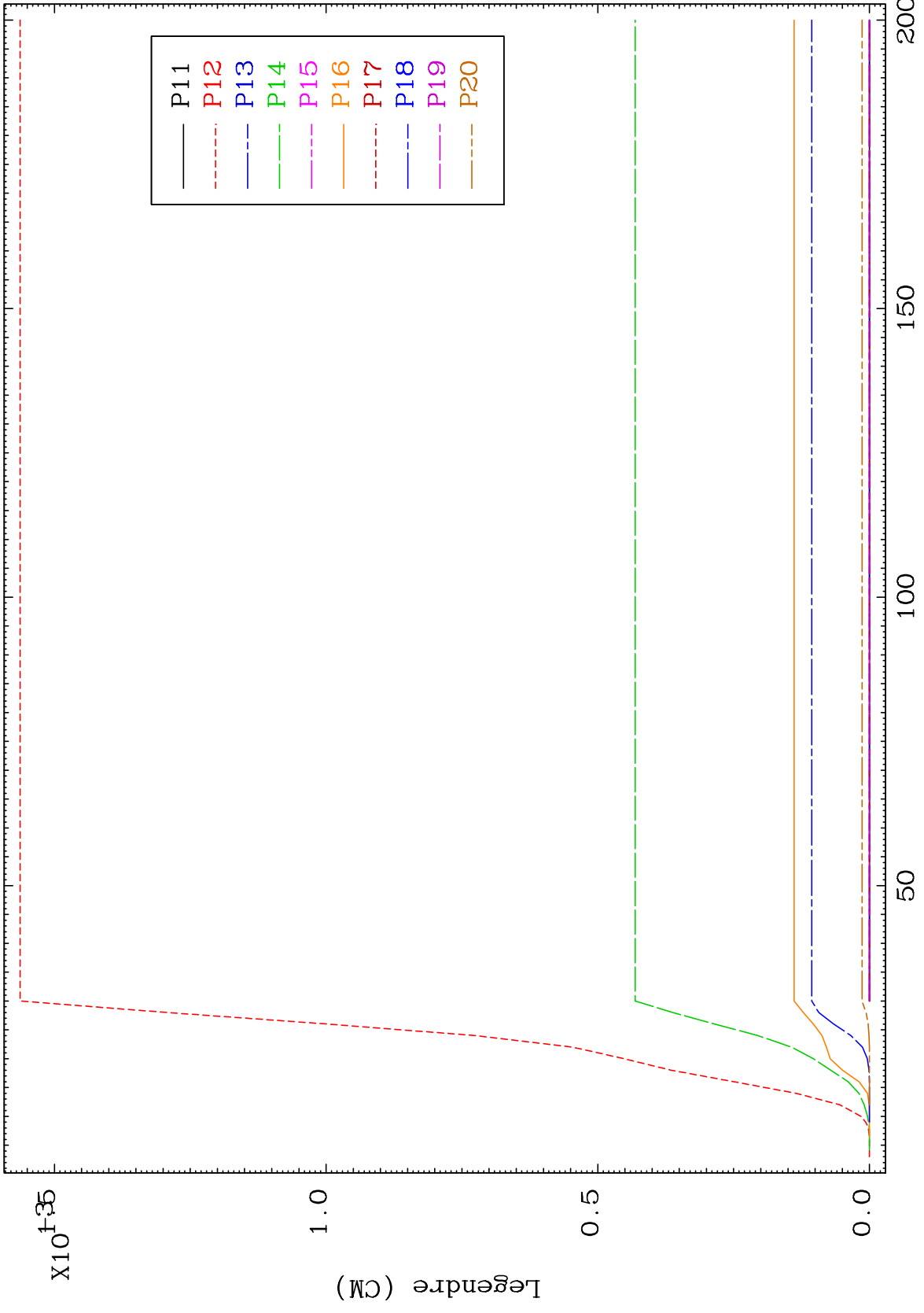


MAT 6128 MT= 71 (n,n') Level Legendre Coefficients 61-Pm-140

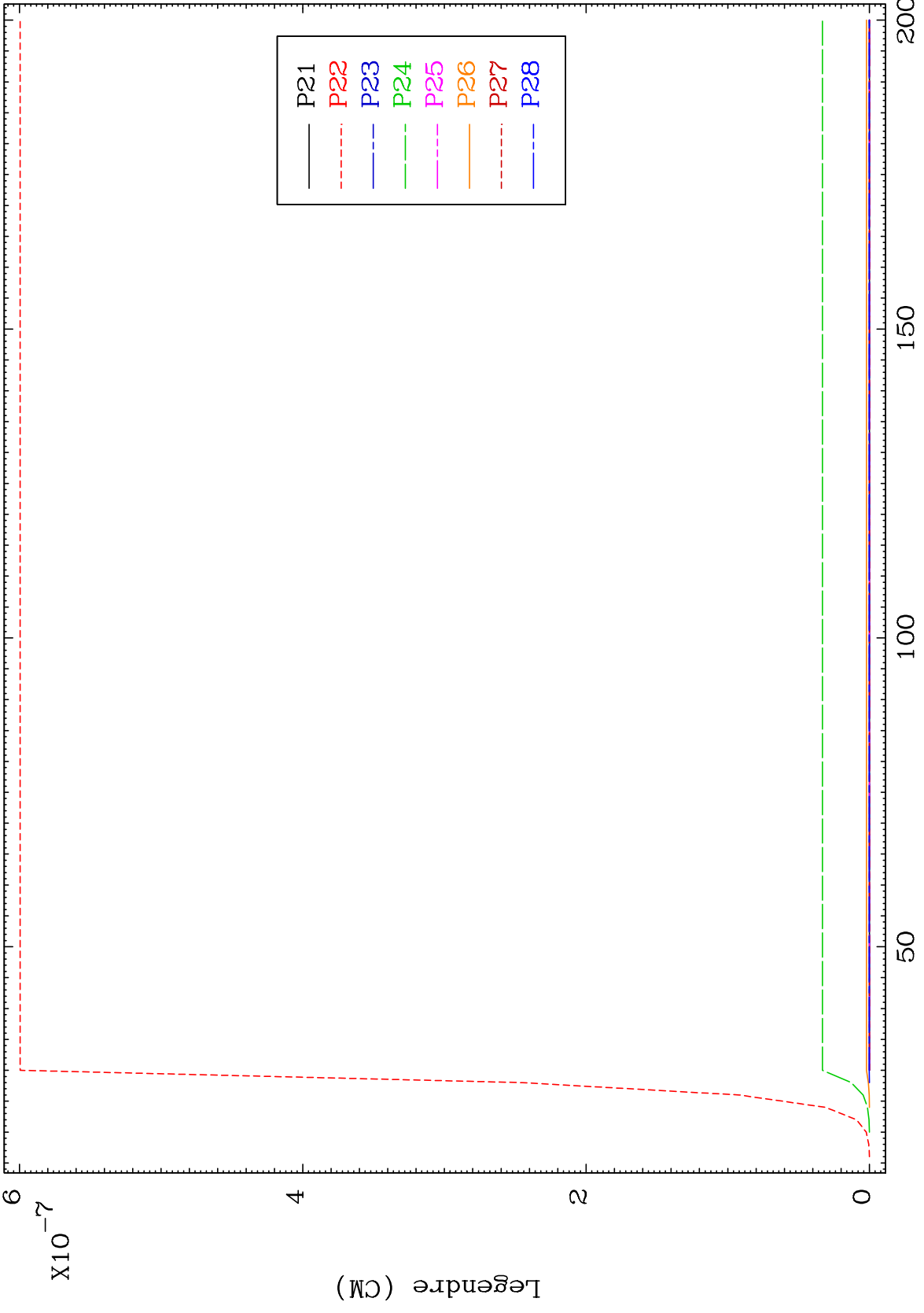


83 61-Pm-140

MAT 6128 MT= 71 (n,n') Level Legendre Coefficients 61-Pm-140



MAT 6128 MT= 71 (n,n') Level Legendre Coefficients 61-Pm-140

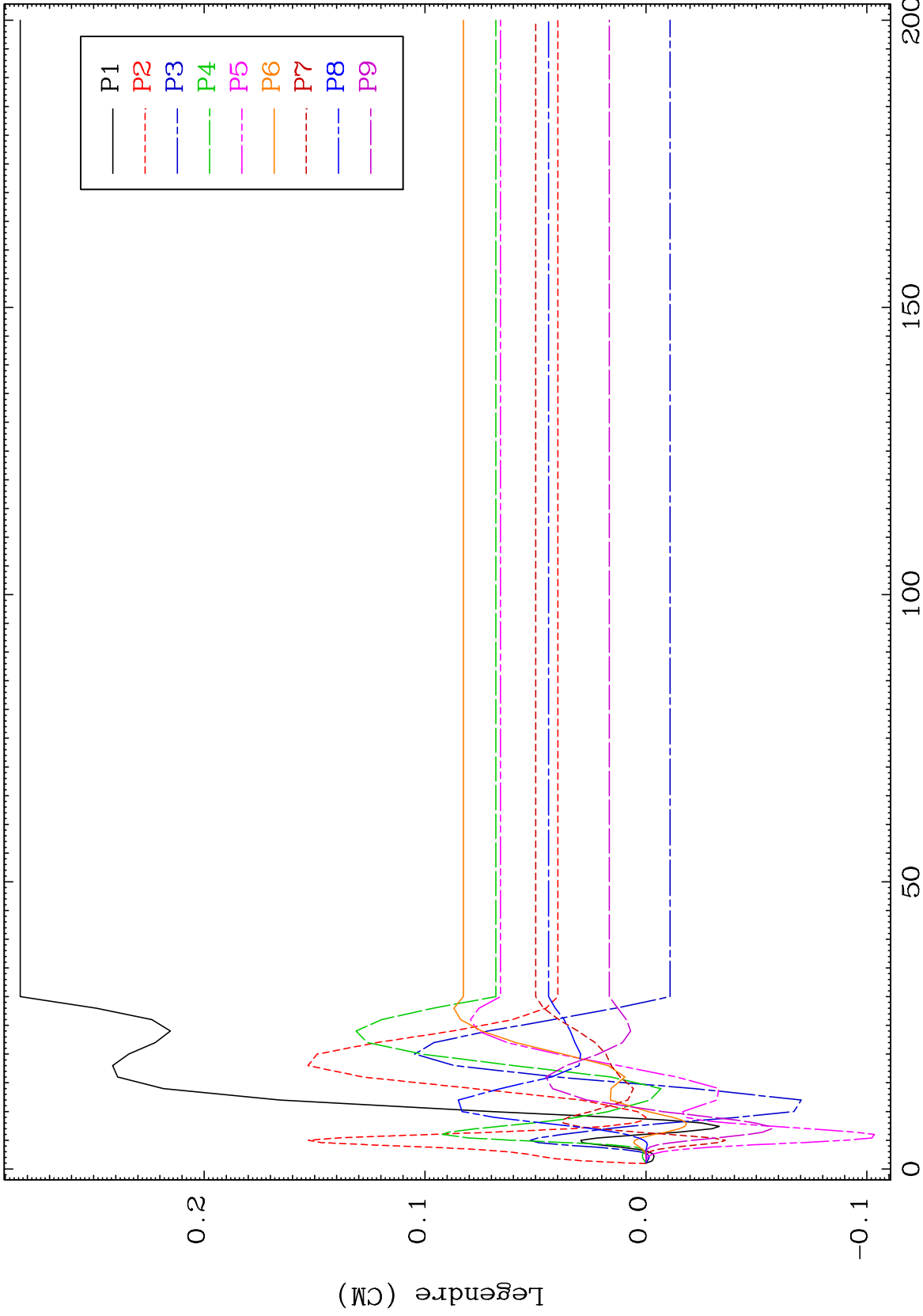


85 Incident Energy (MeV) 61-Pm-140

MAT 6128

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

61-Pm-140



86

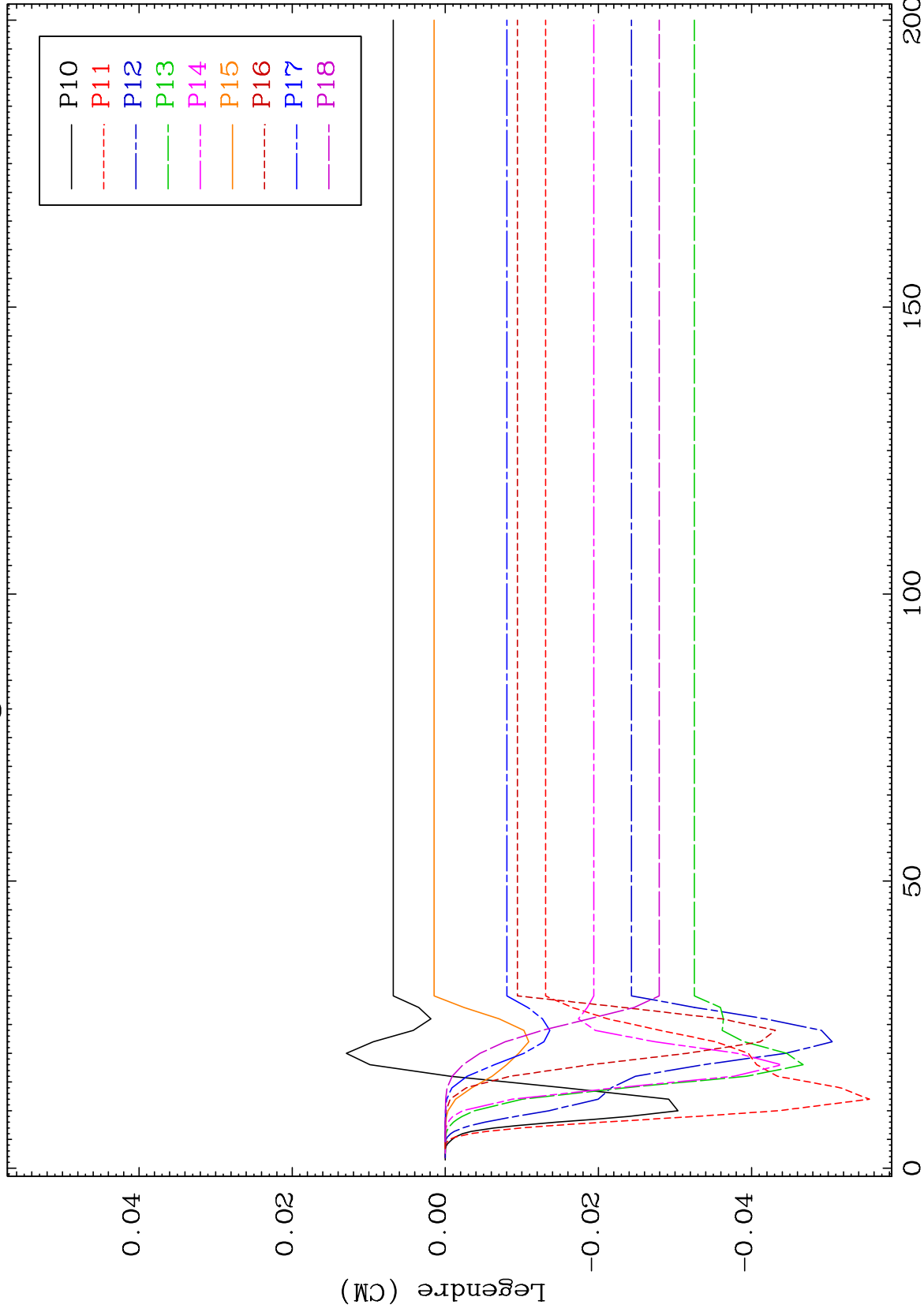
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



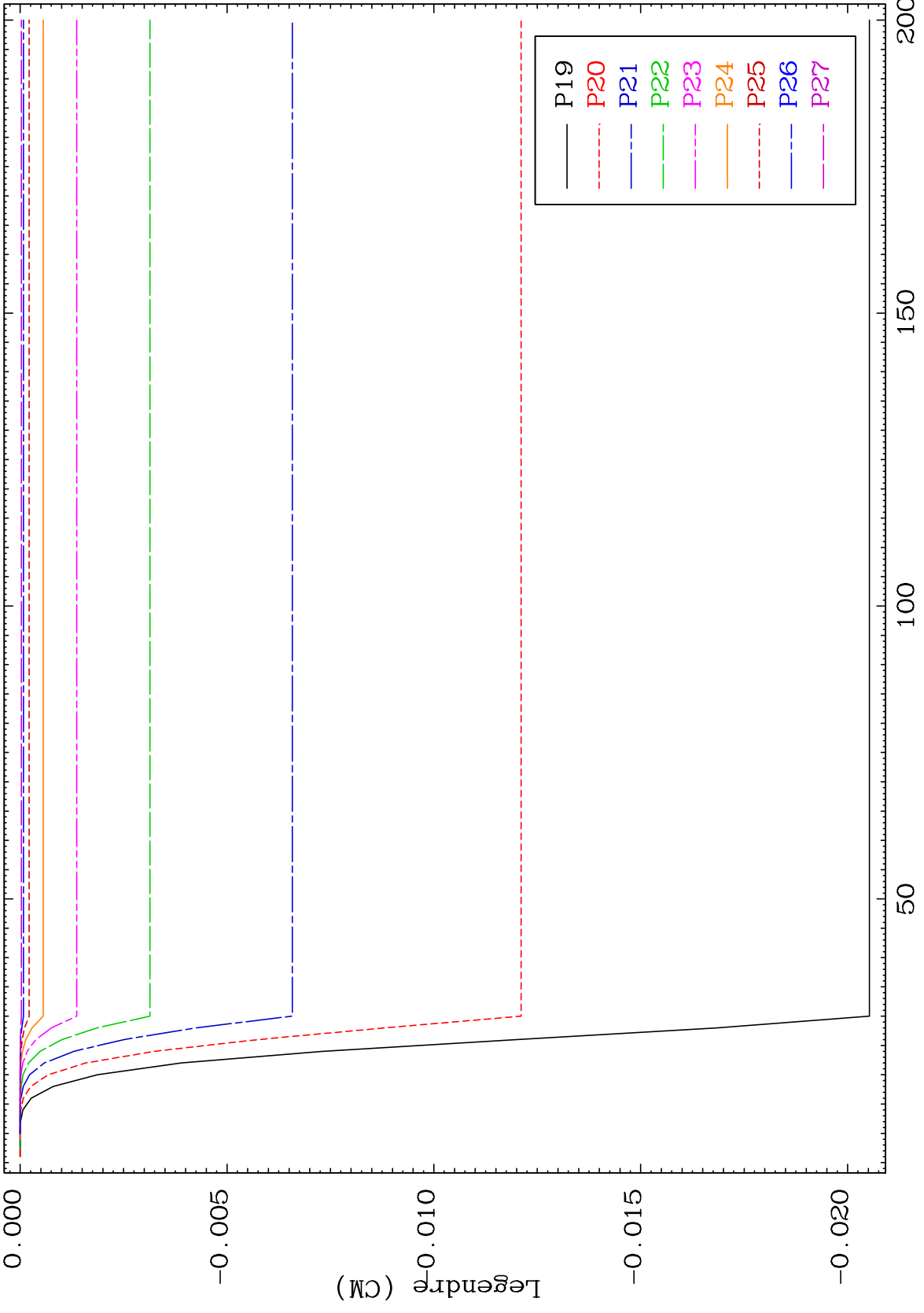
87

Incident Energy (MeV)

61-Pm-140



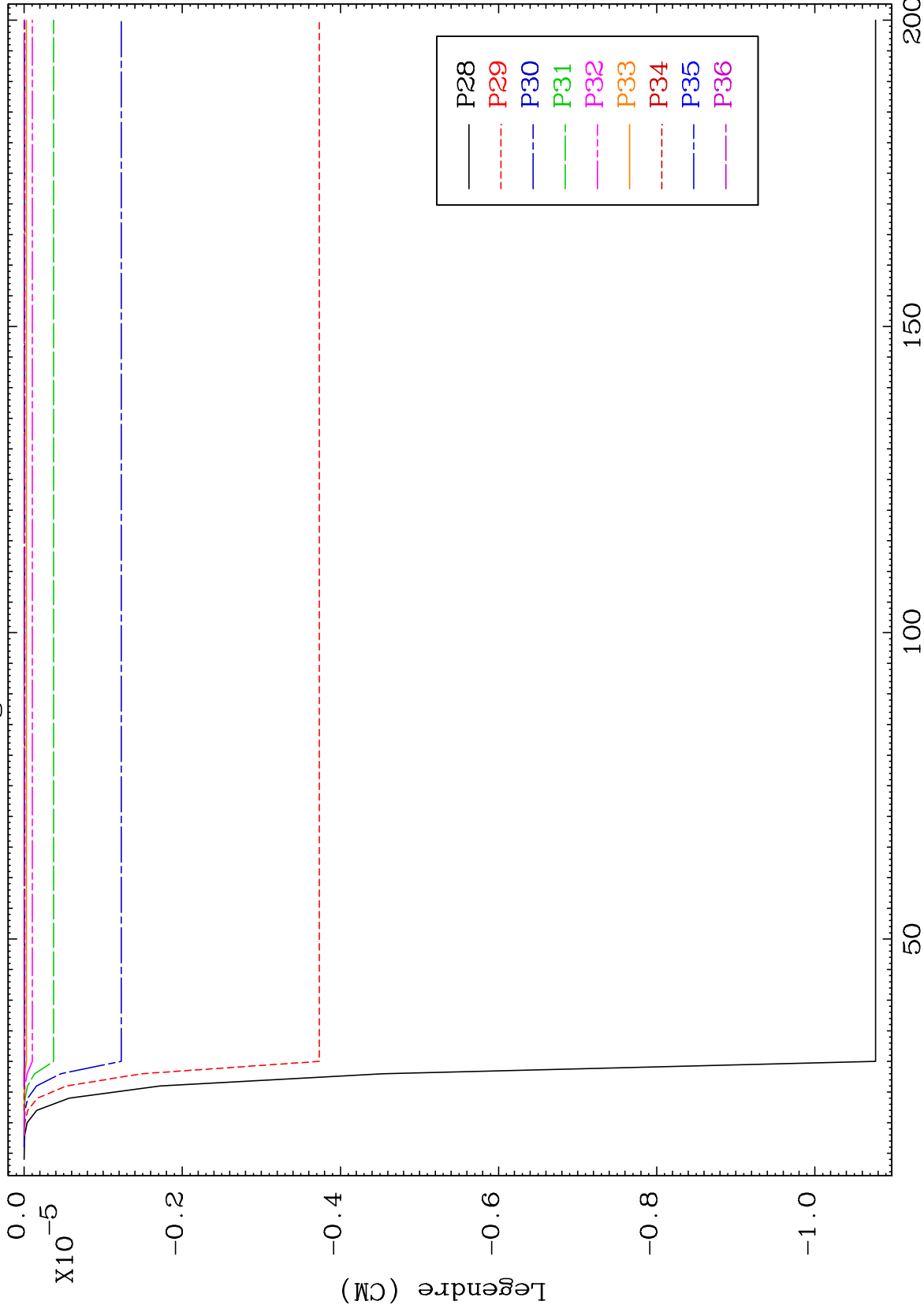
MAT 6128 MT= 72 (n,n') Level Legendre Coefficients 61-Pm-140



MAT 6128

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

61-Pm-140



89

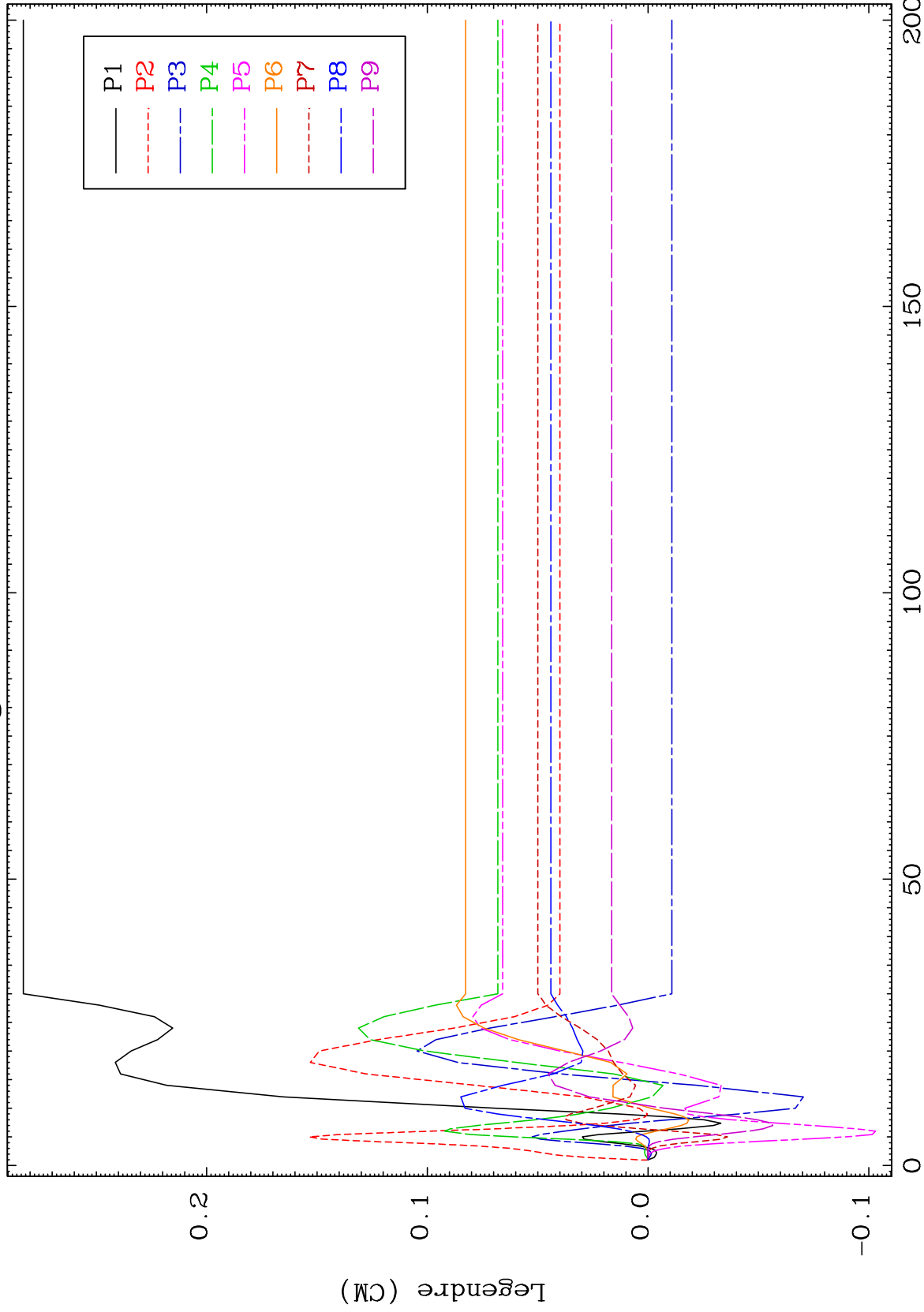
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

61-Pm-140



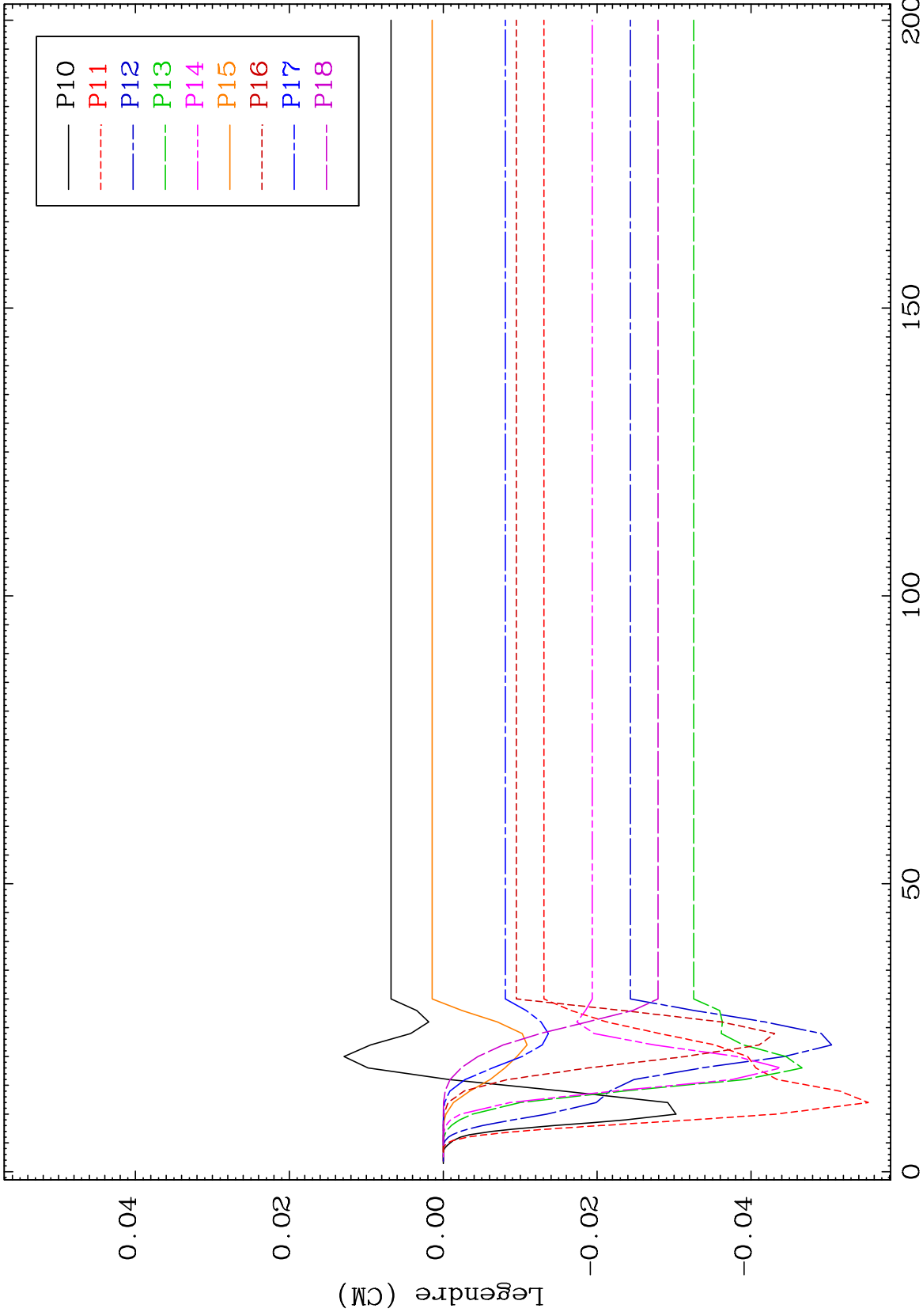
61-Pm-140

Incident Energy (MeV)

MAT 6128

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

61-Pm-140

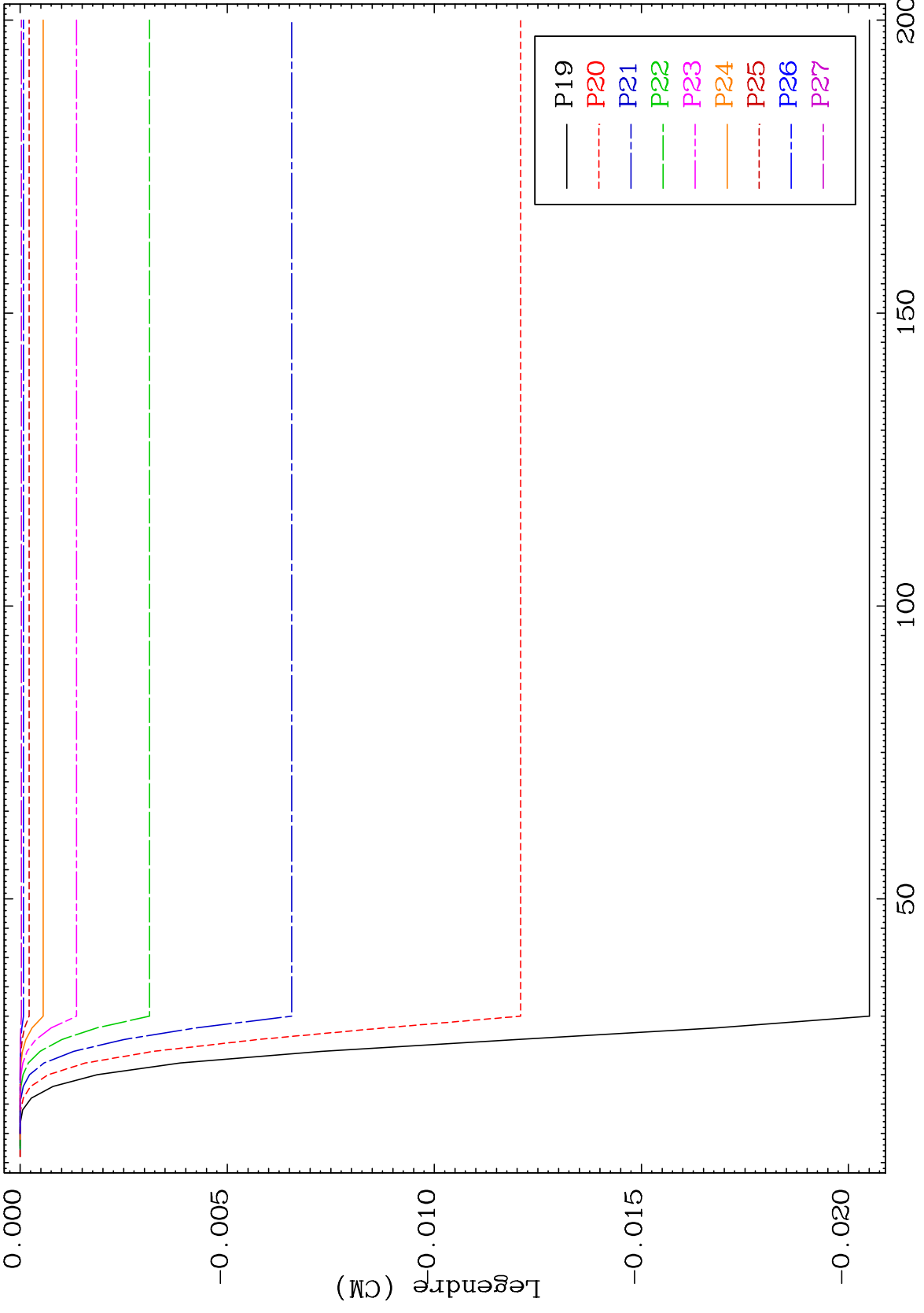


91

Incident Energy (MeV)

61-Pm-140

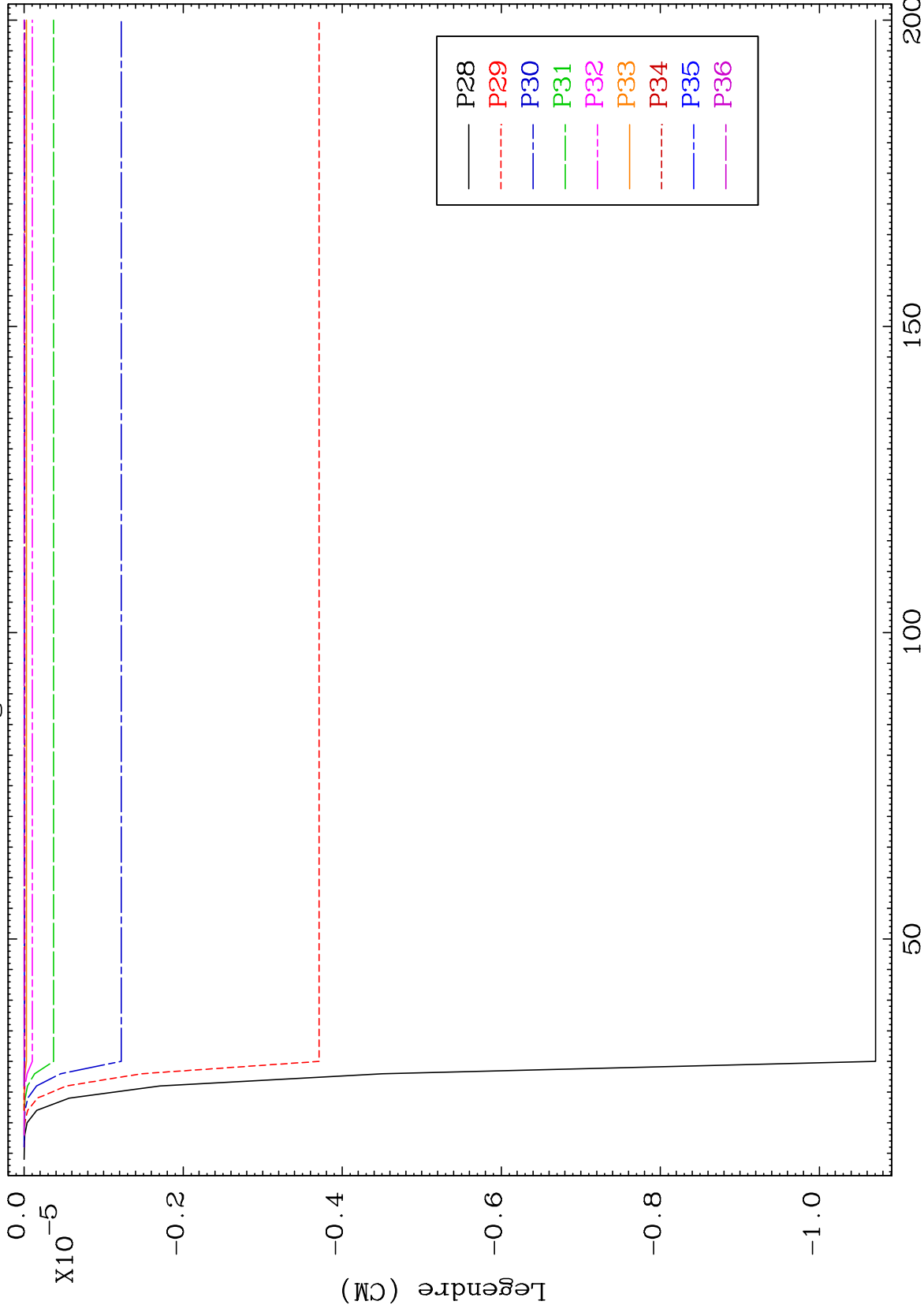
MAT 6128 MT= 73 (n,n') Level Legendre Coefficients 61-Pm-140



MAT 6128

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

61-Pm-140

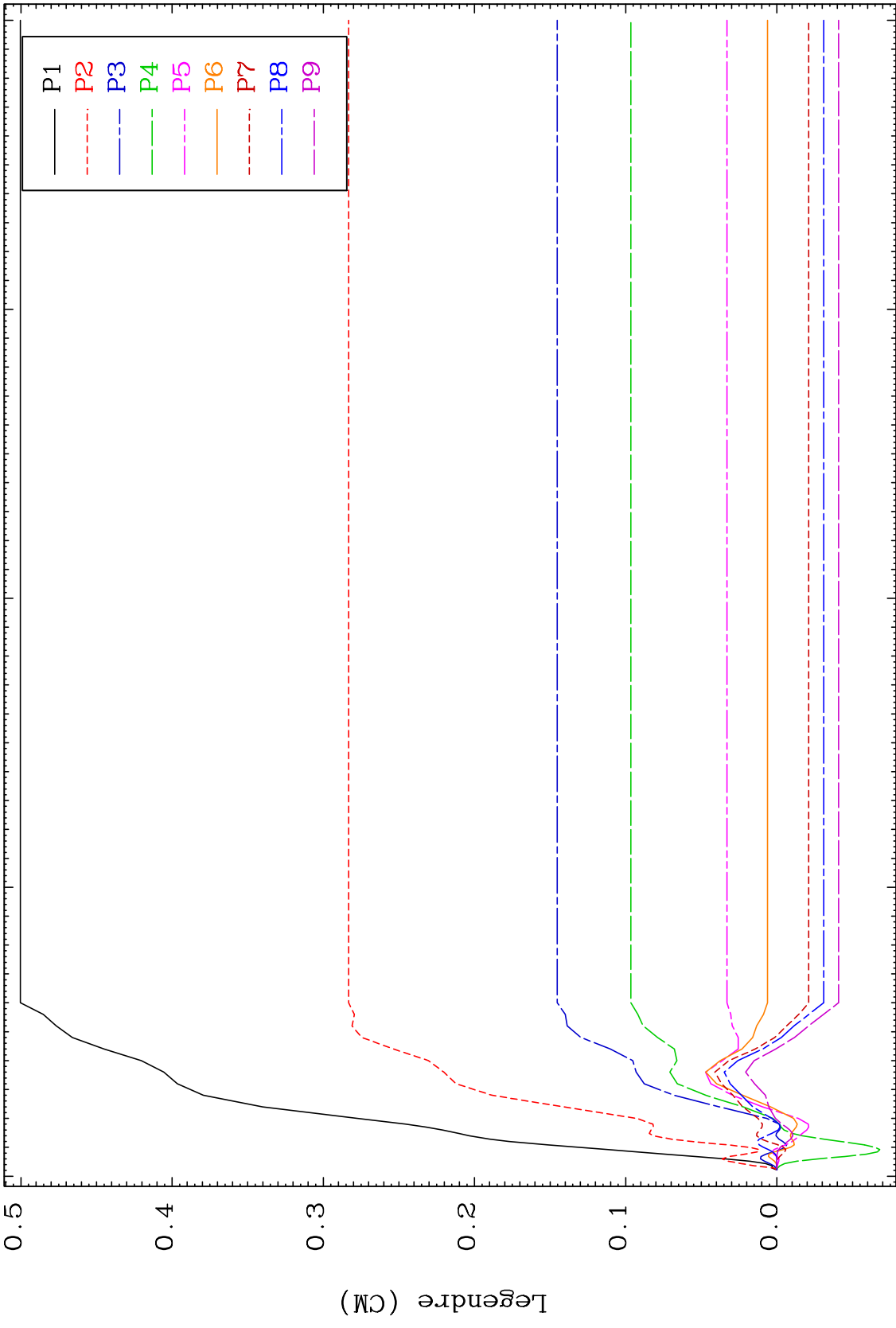


93

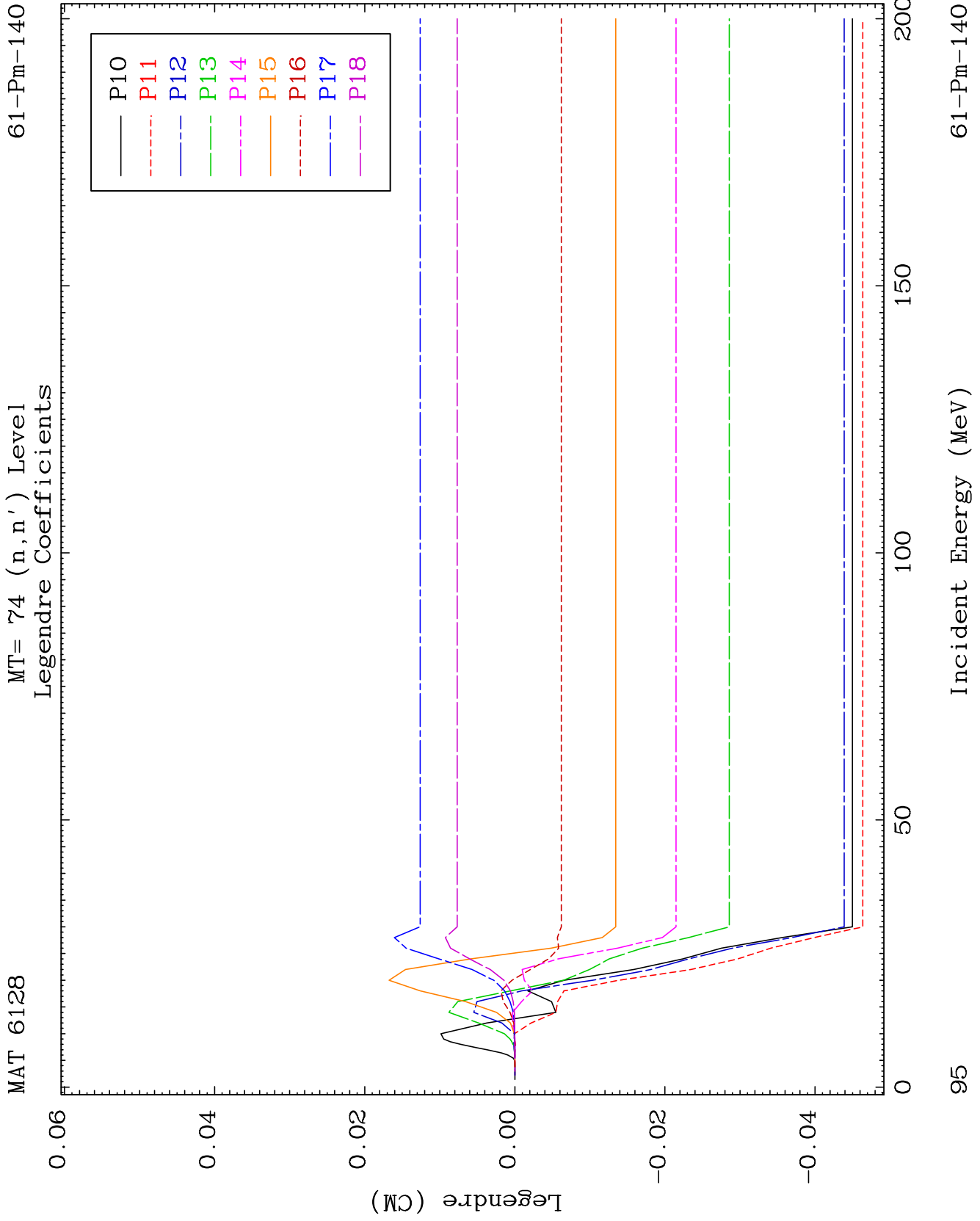
Incident Energy (MeV)

61-Pm-140

MAT 6128 MT= 74 (n,n') Level Legendre Coefficients 61-Pm-140



94 61-Pm-140

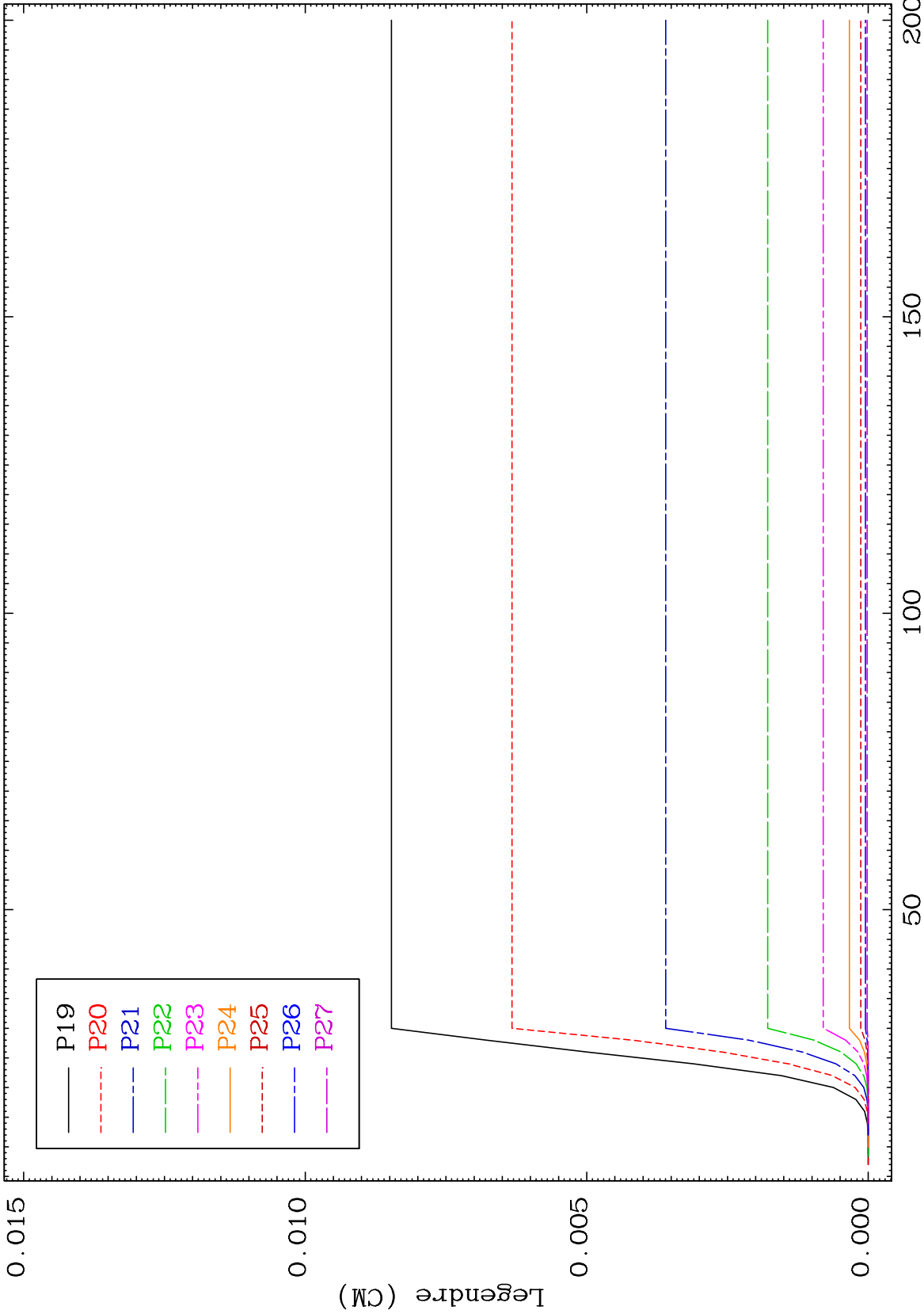




MAT 6128

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

61-Pm-140



96

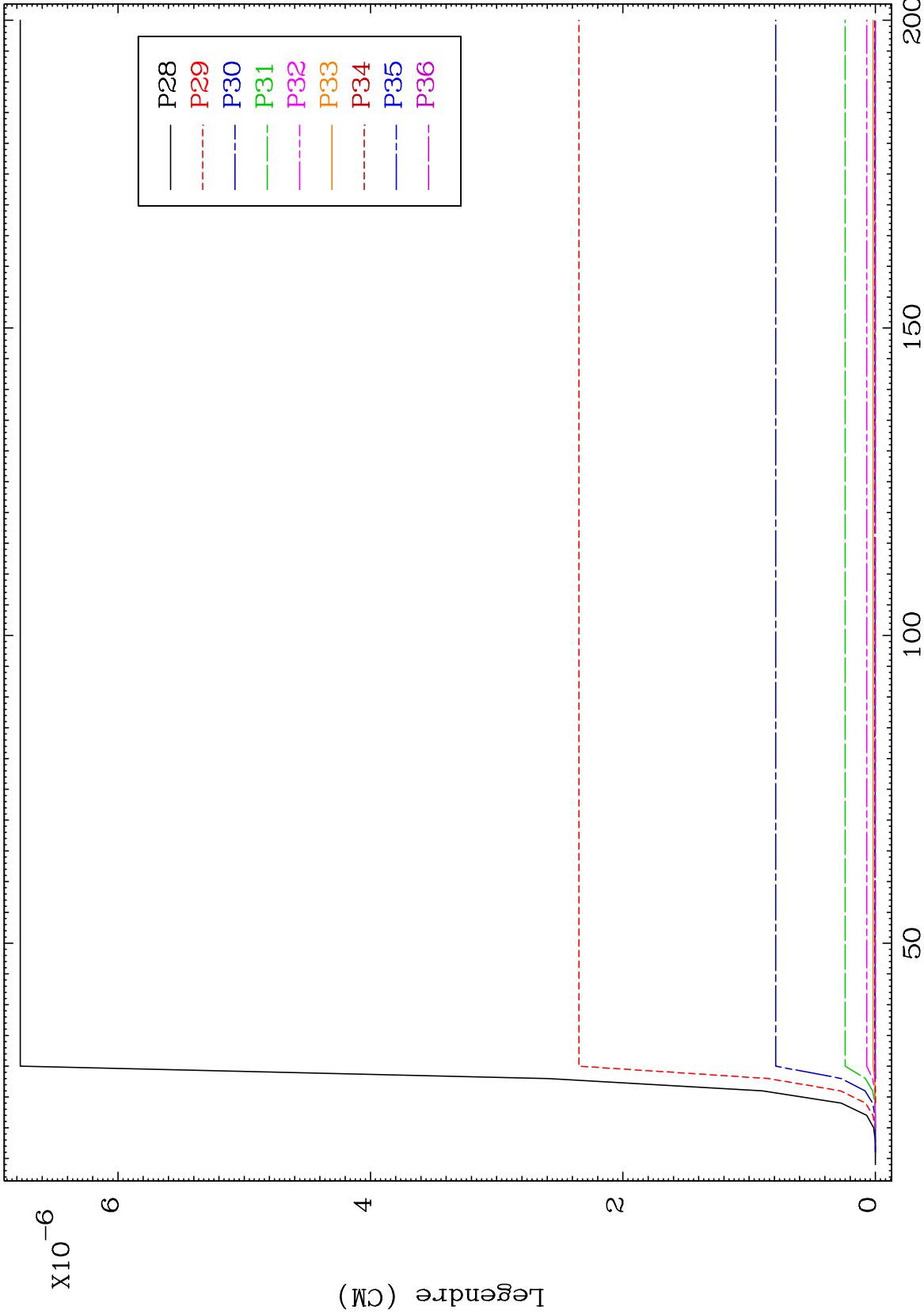
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

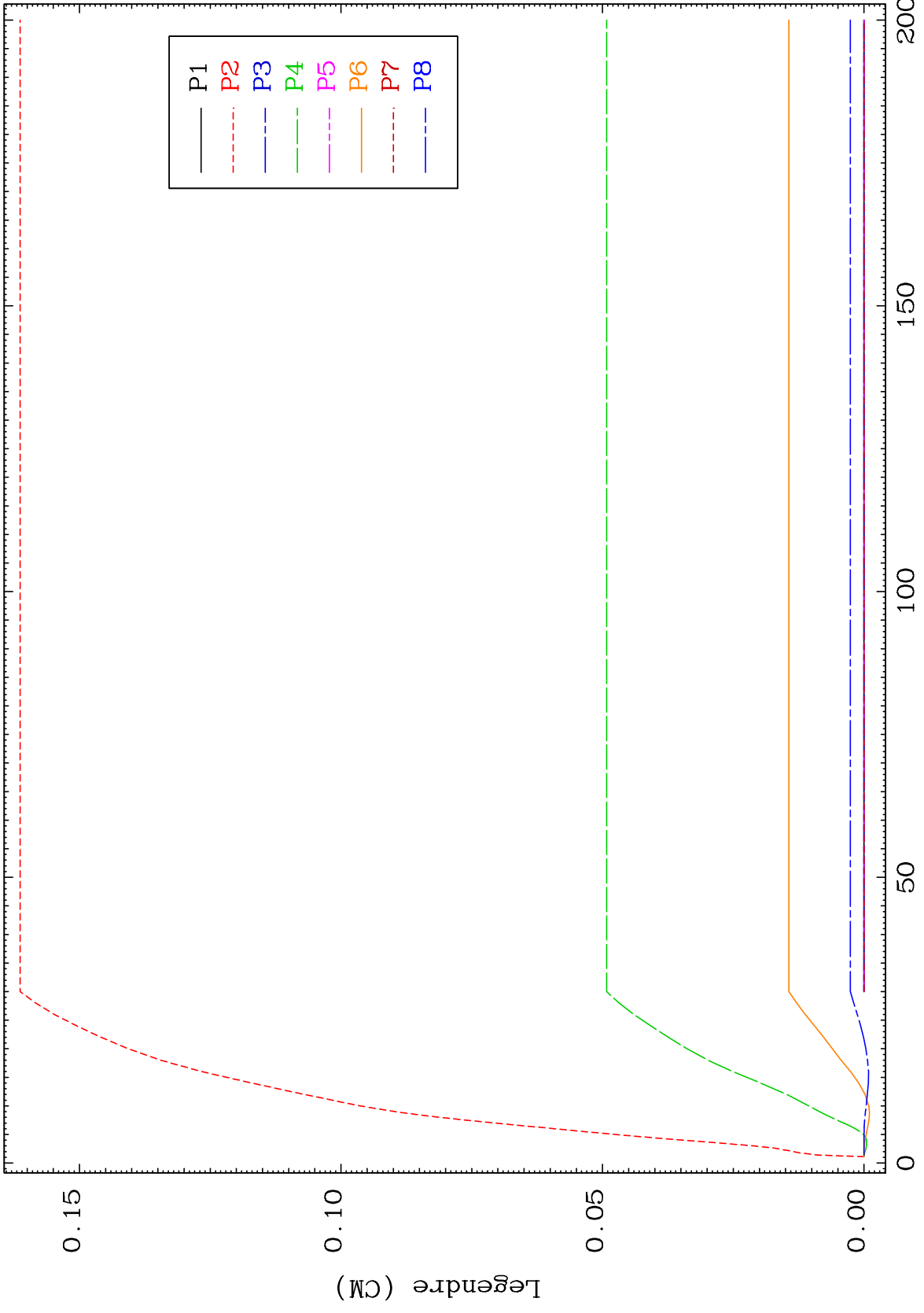
61-Pm-140



97

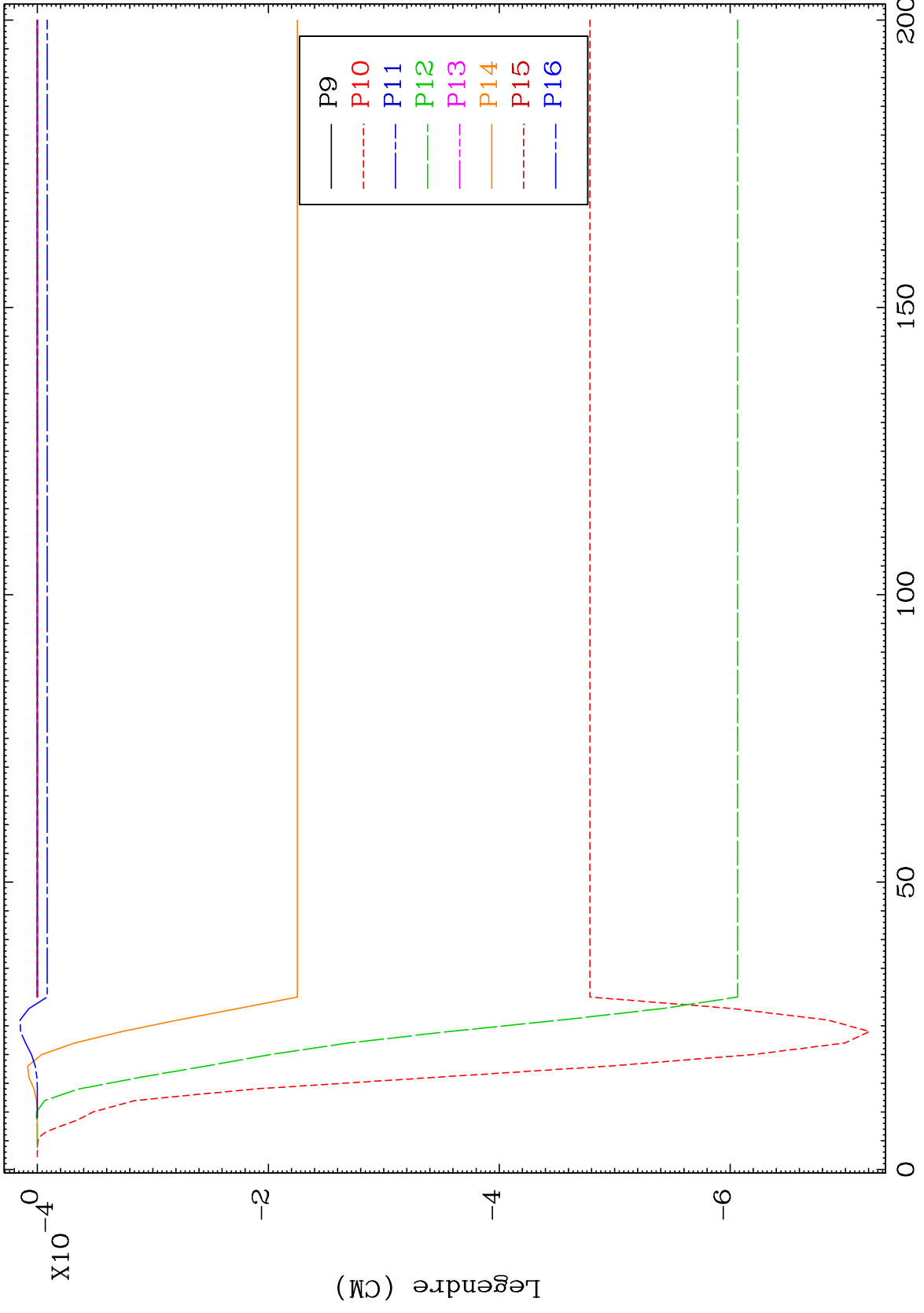
61-Pm-140

MAT 6128 MT= 75 (n,n') Level Legendre Coefficients 61-Pm-140



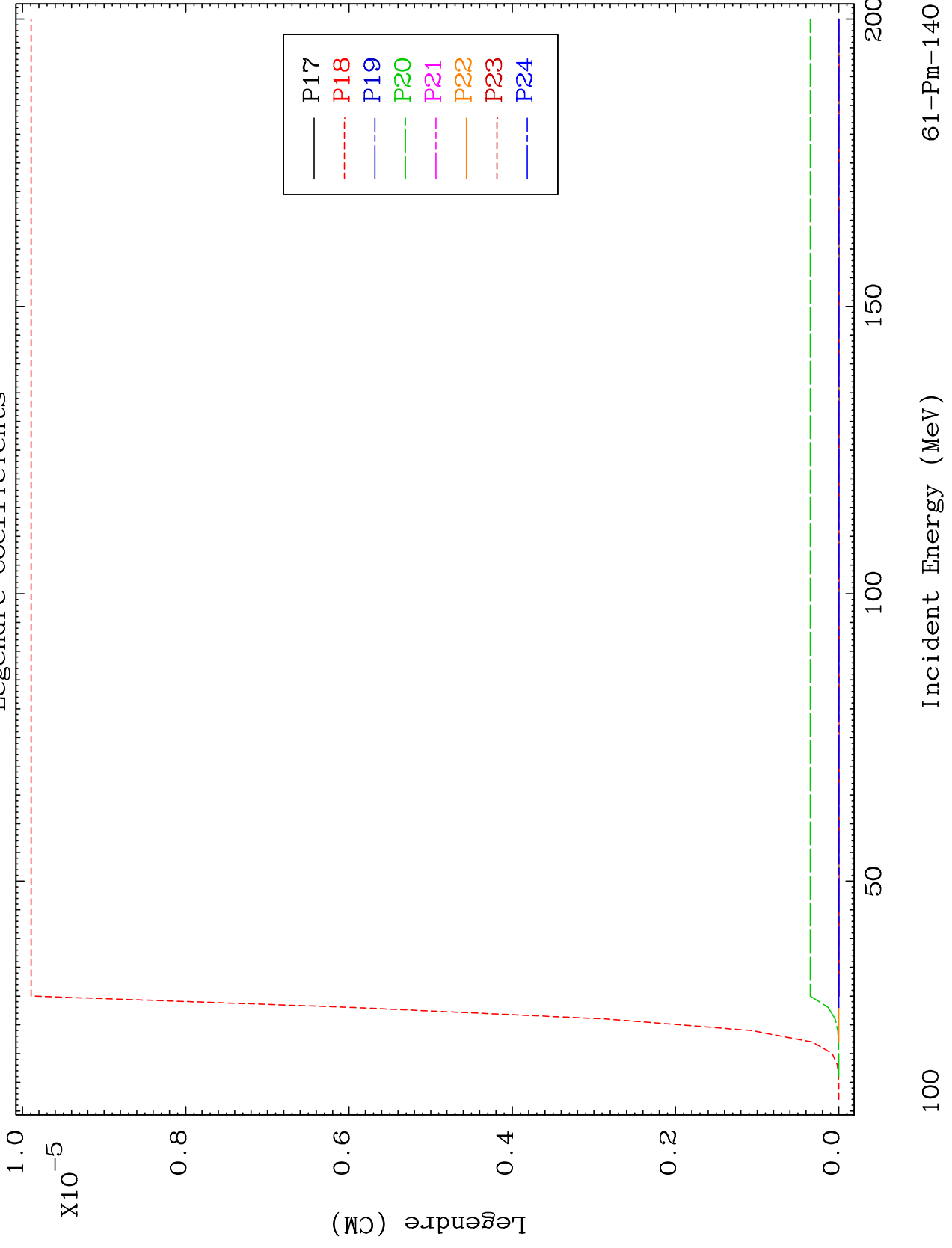
98 61-Pm-140

MAT 6128 MT= 75 (n,n') Level Legendre Coefficients 61-Pm-140

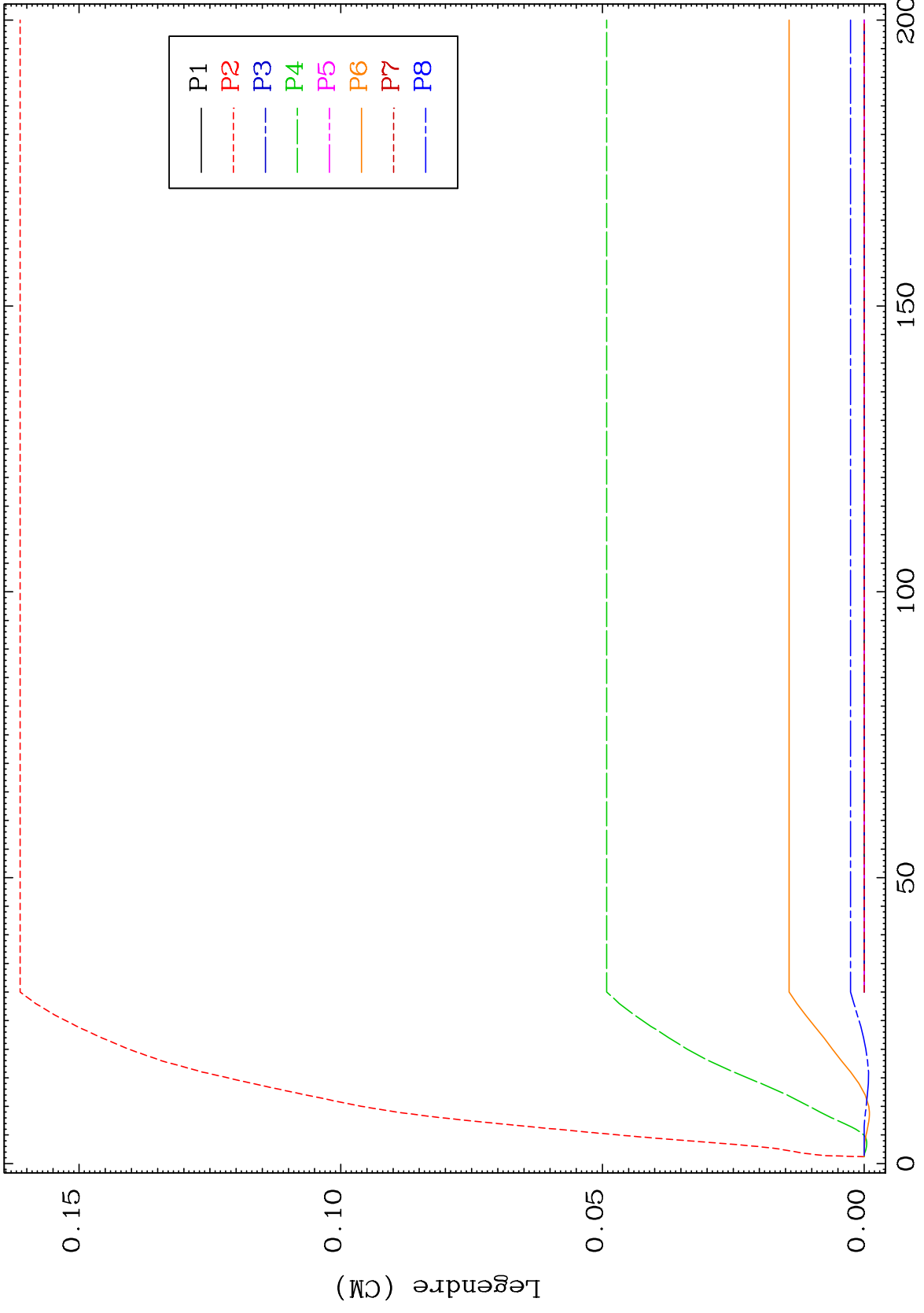


99 61-Pm-140

MAT 6128 MT= 75 (n,n') Level Legendre Coefficients 61-Pm-140

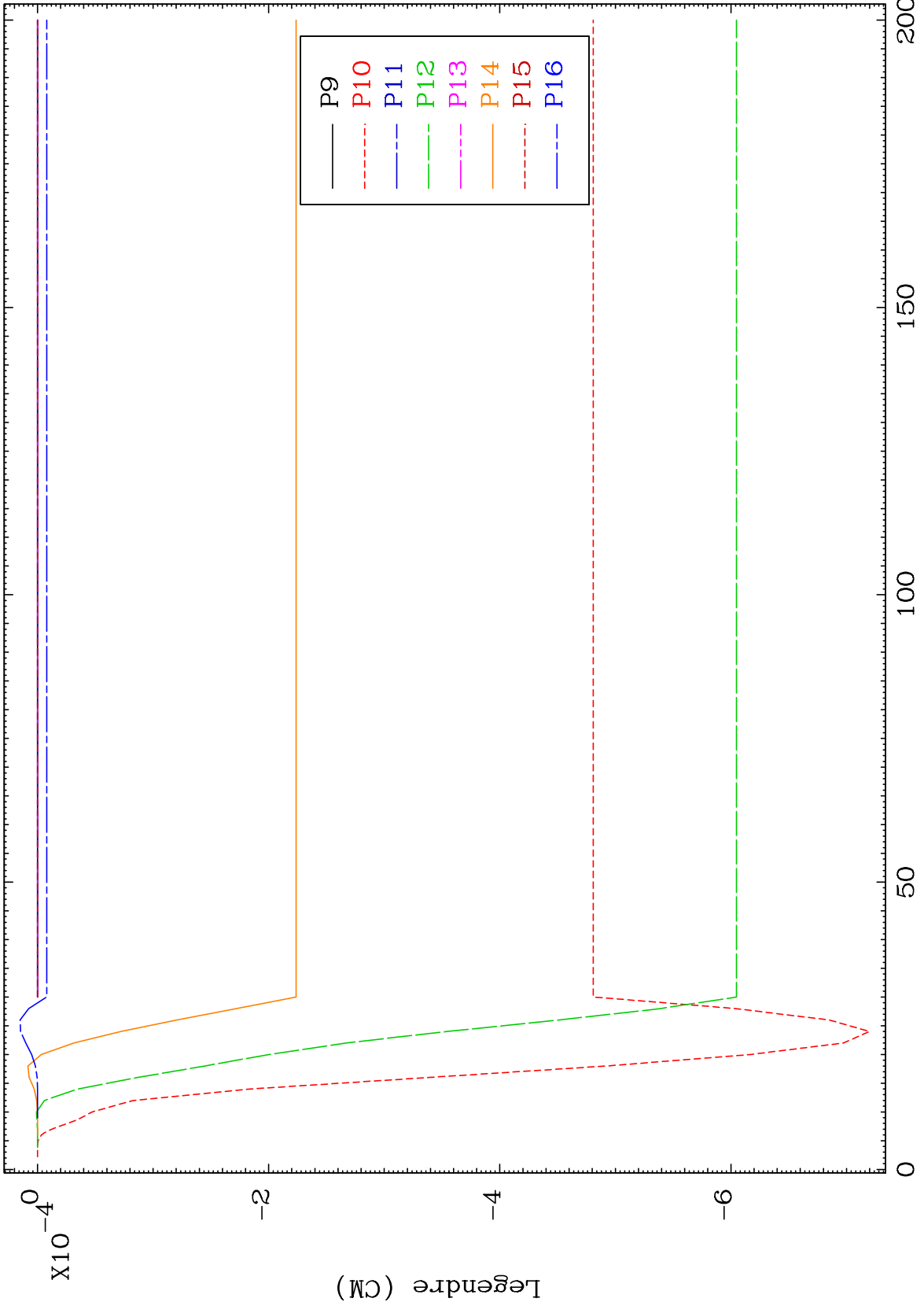


MAT 6128 MT= 76 (n,n') Level Legendre Coefficients 61-Pm-140



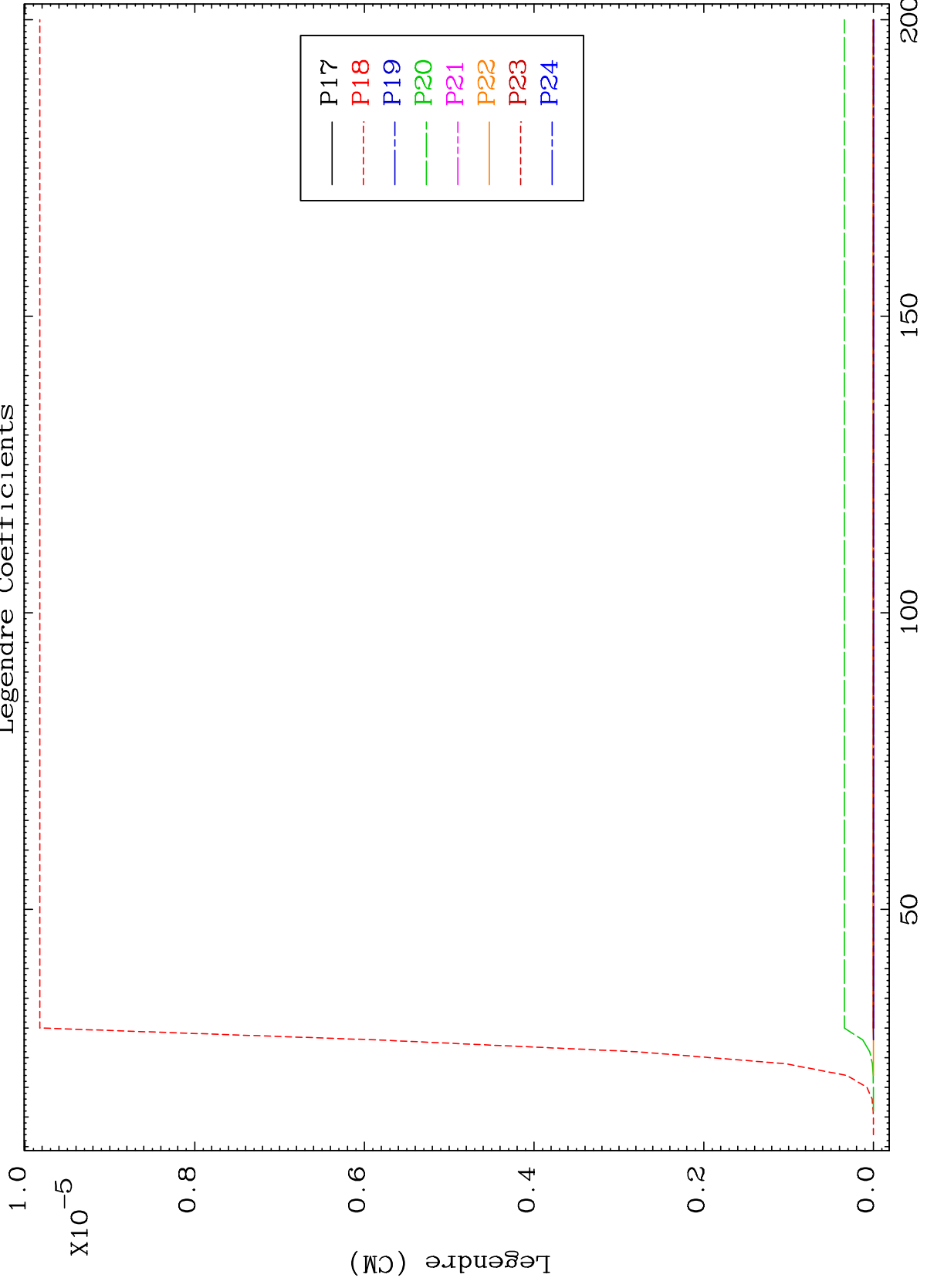
Legendre (CM) Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 76 (n,n') Level Legendre Coefficients 61-Pm-140



102 61-Pm-140

MAT 6128 MT= 76 (n,n') Level Legendre Coefficients 61-Pm-140



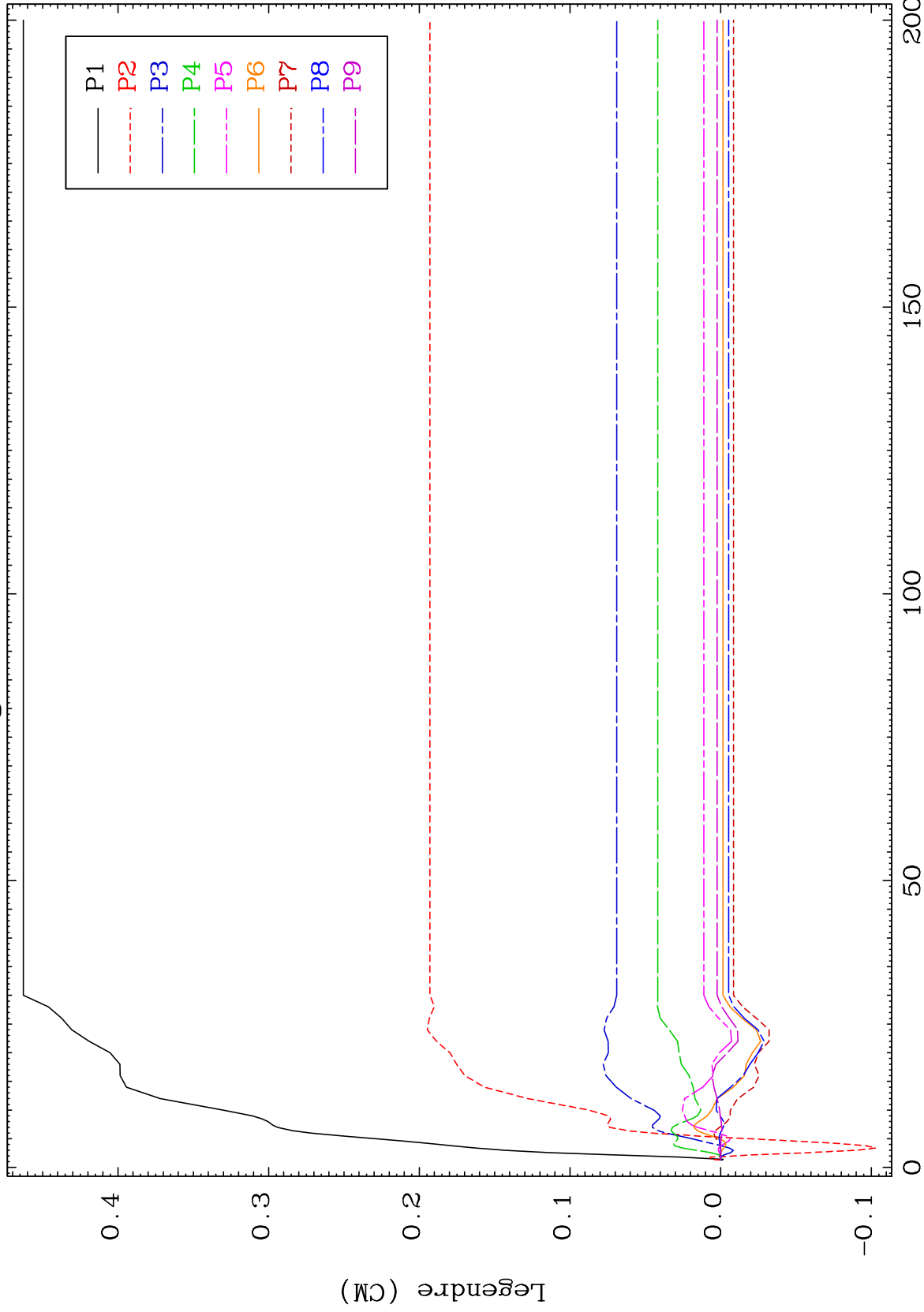
103 Incident Energy (MeV) 200 61-Pm-140



MAT 6128

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

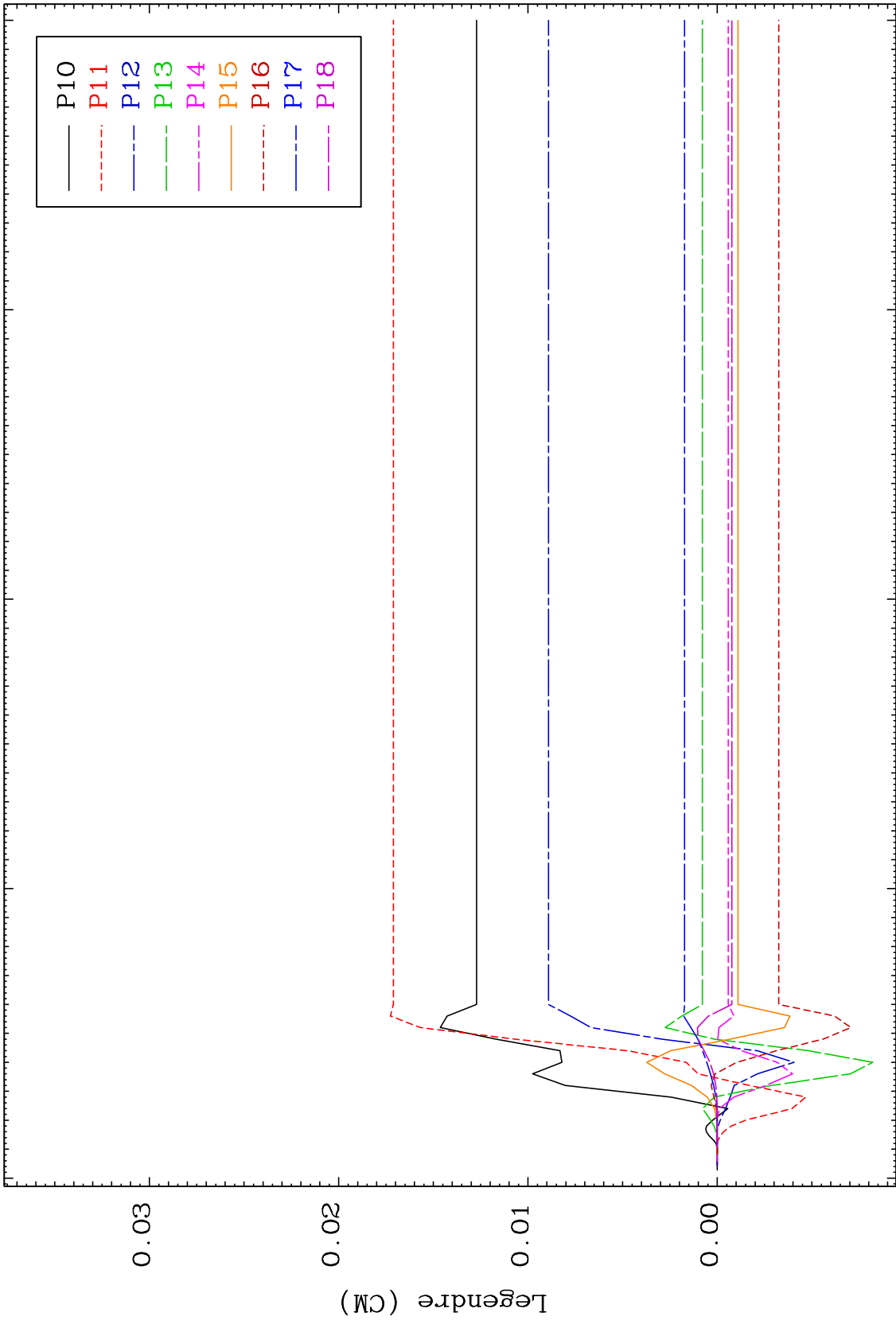
61-Pm-140



104

61-Pm-140

MAT 6128 MT= 77 (n,n') Level Legendre Coefficients 61-Pm-140

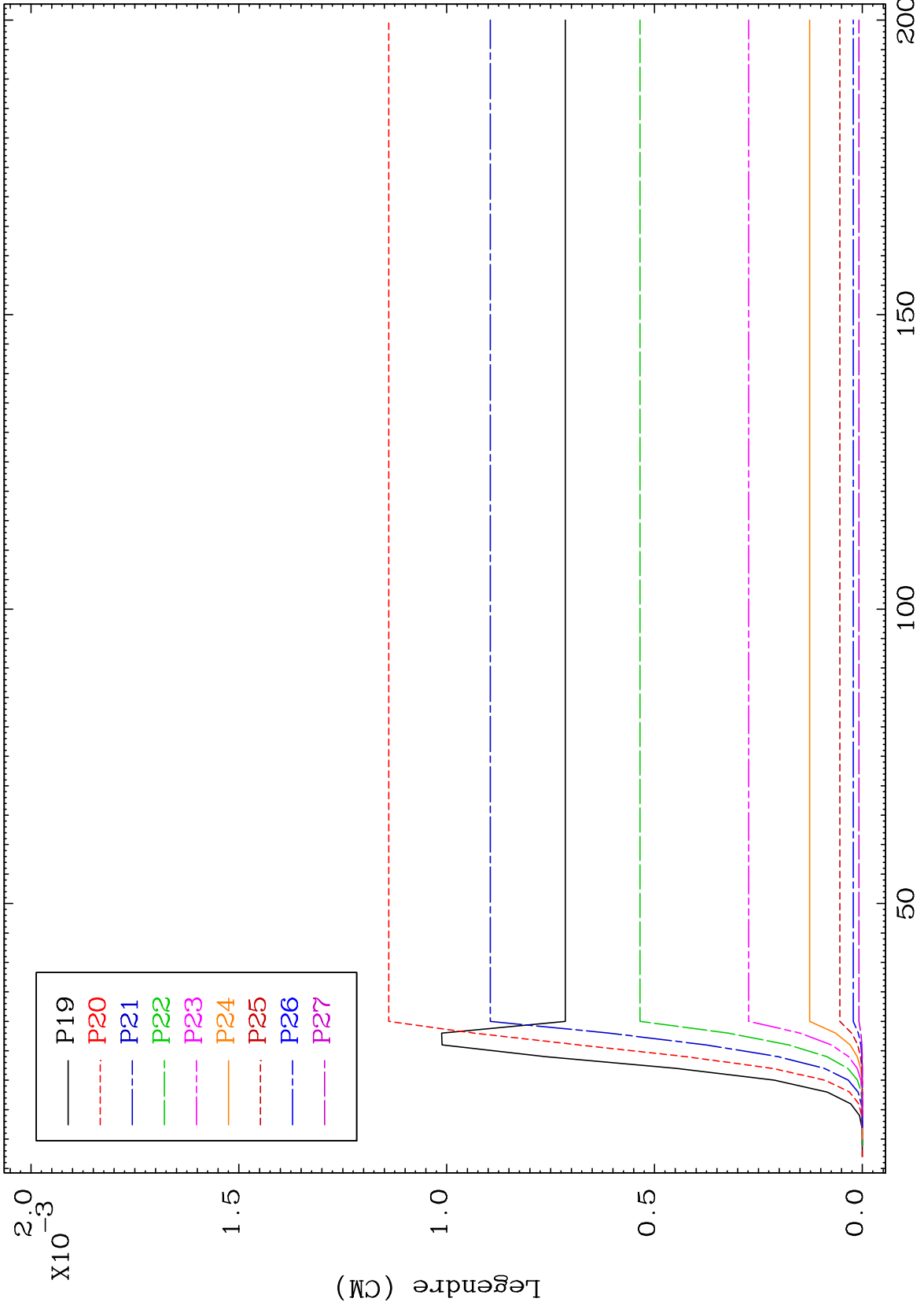


105 Incident Energy (MeV) 61-Pm-140

MAT 6128

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

61-Pm-140



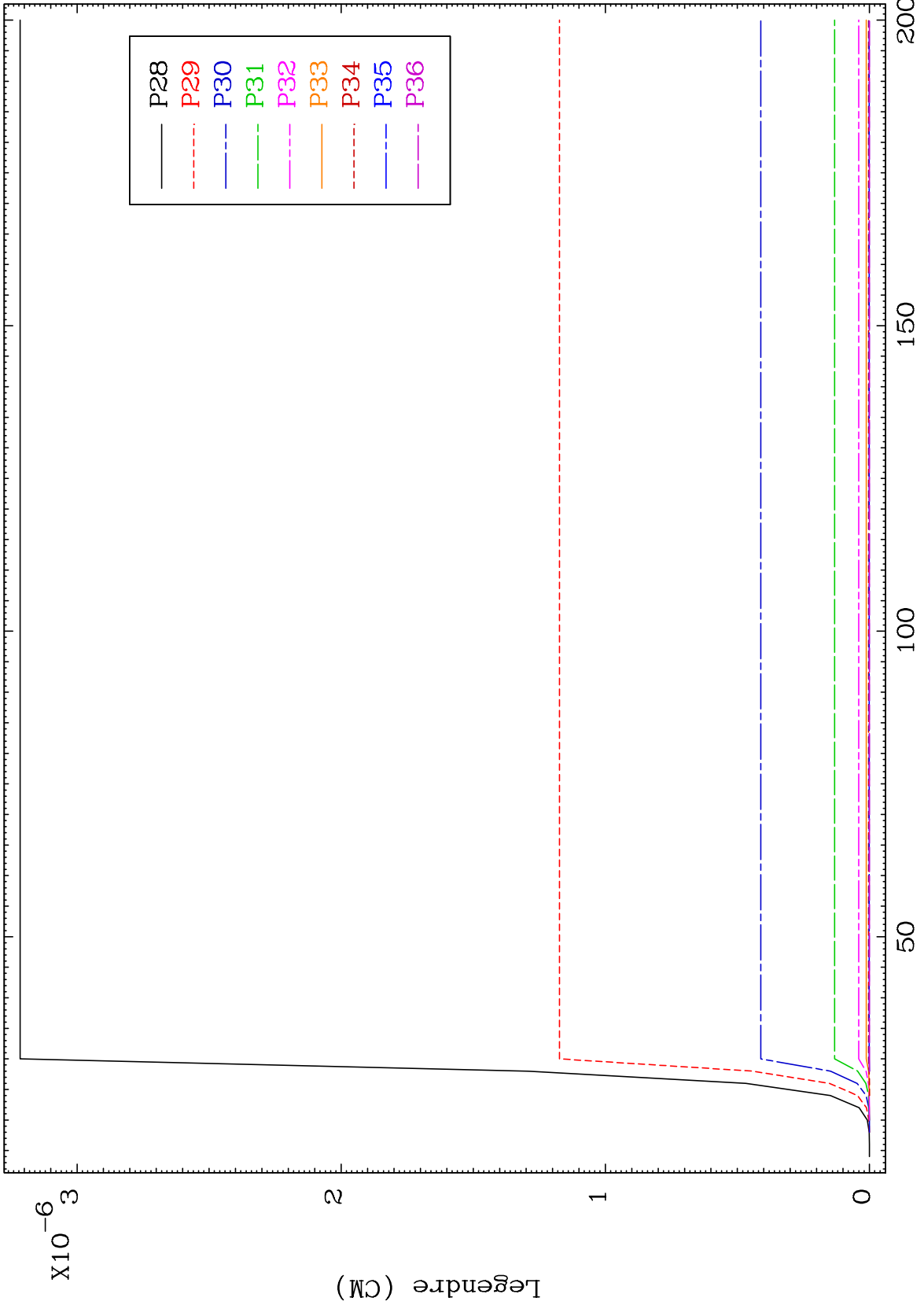
106

61-Pm-140

MAT 6128

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

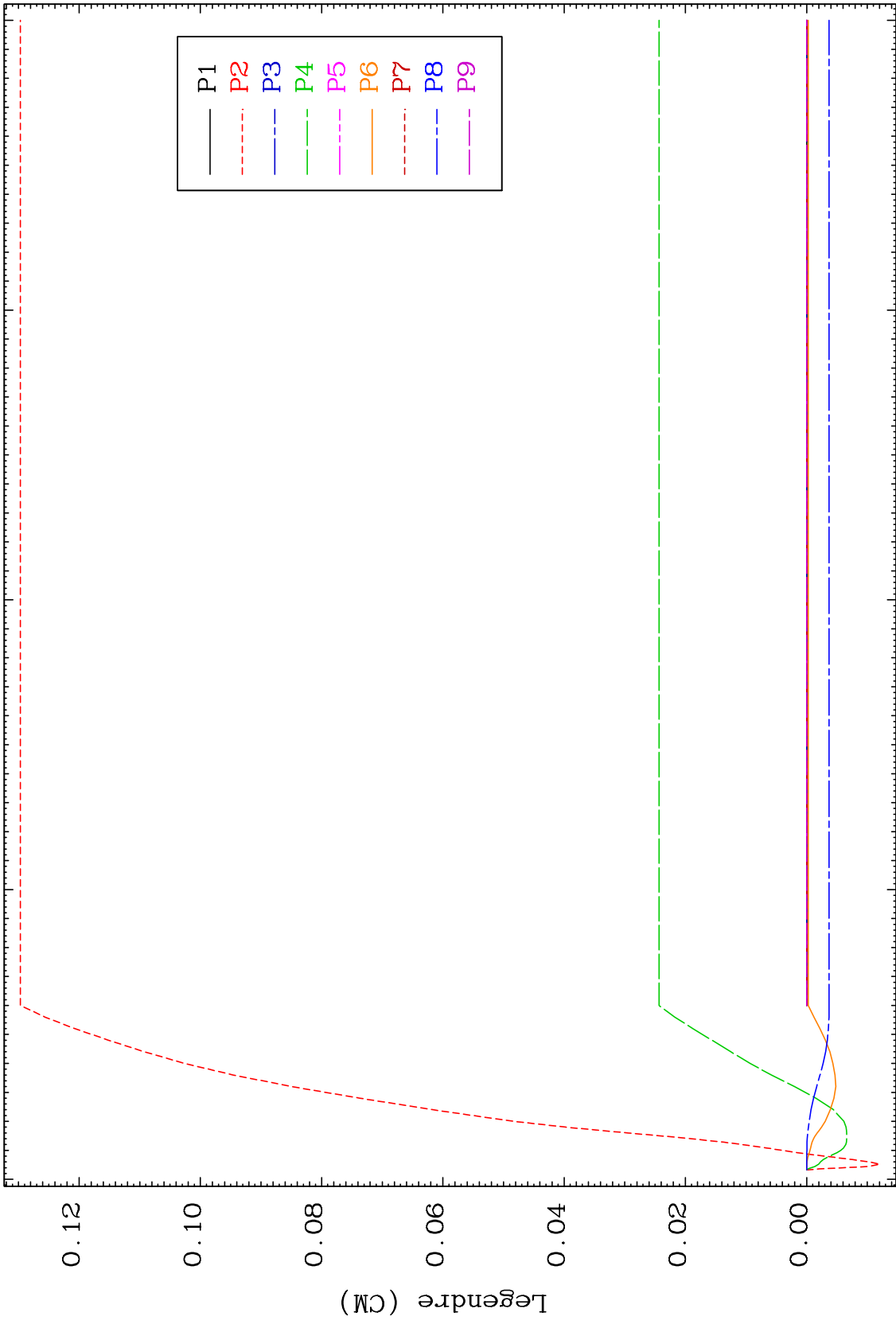
61-Pm-140



107

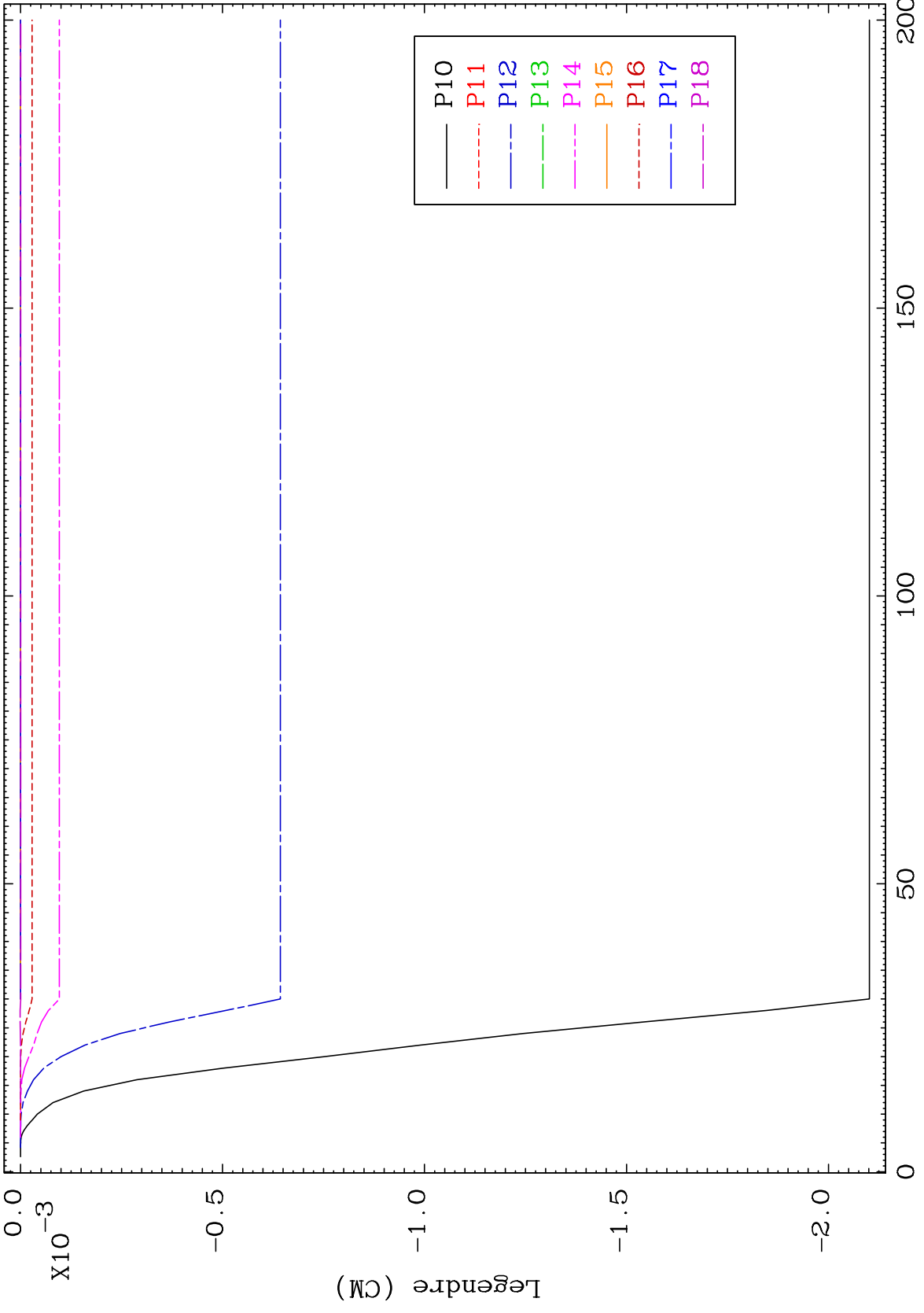
61-Pm-140

MAT 6128 MT= 78 (n,n') Level Legendre Coefficients 61-Pm-140



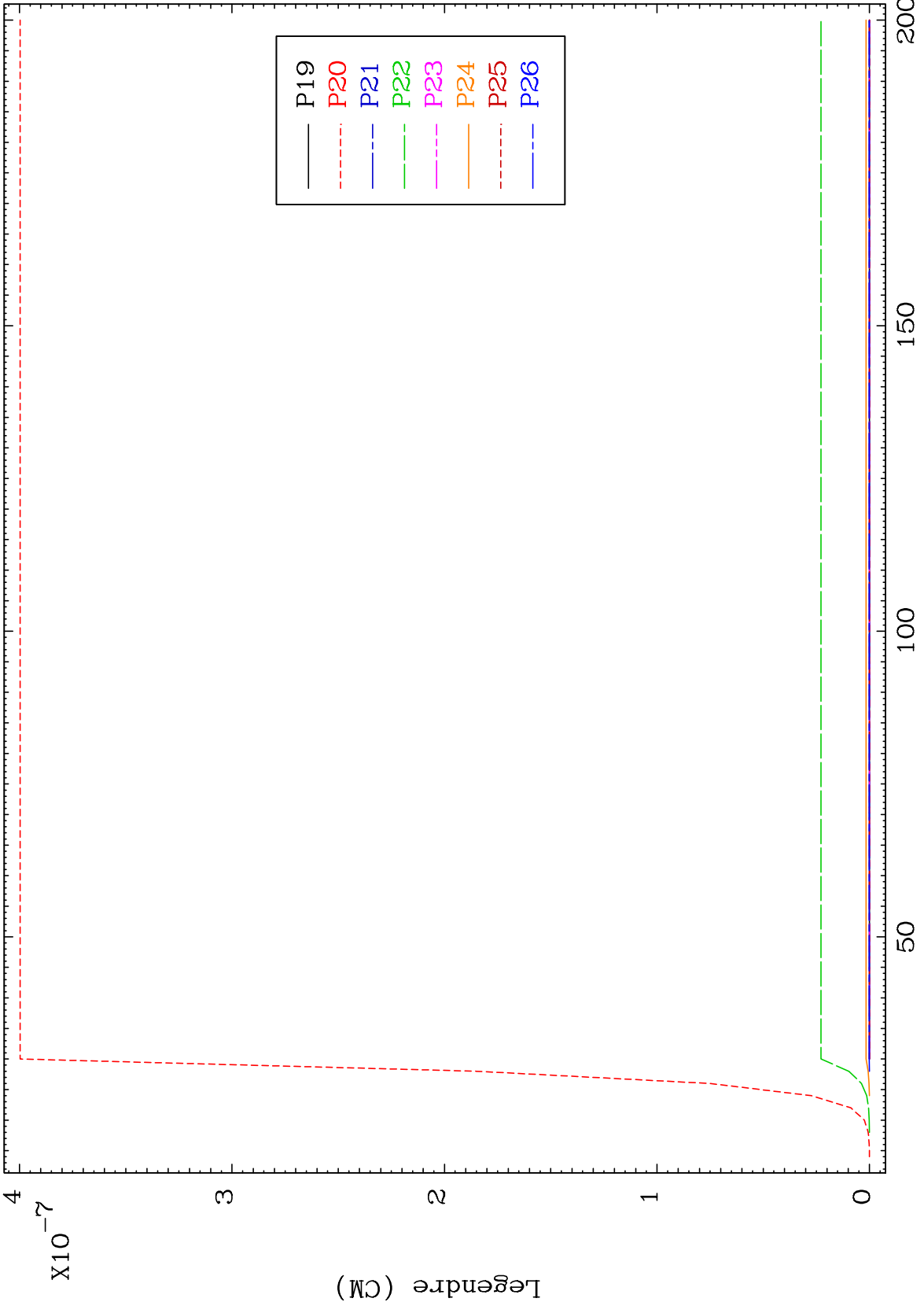
108 Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 78 (n,n') Level Legendre Coefficients 61-Pm-140



109 61-Pm-140

MAT 6128 MT= 78 (n,n') Level Legendre Coefficients 61-Pm-140

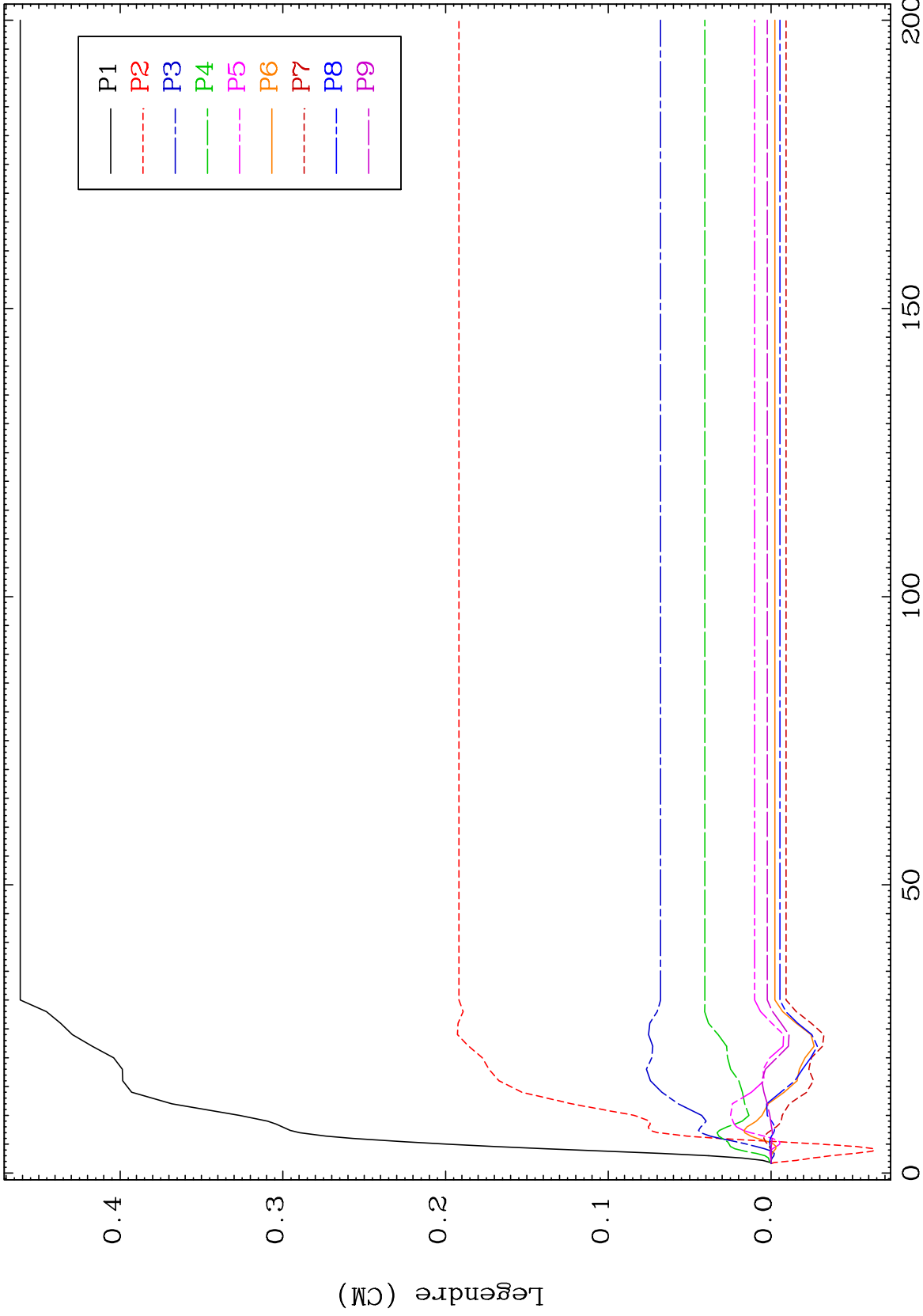


61-Pm-140

MAT 6128

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

61-Pm-140



111

Incident Energy (MeV)

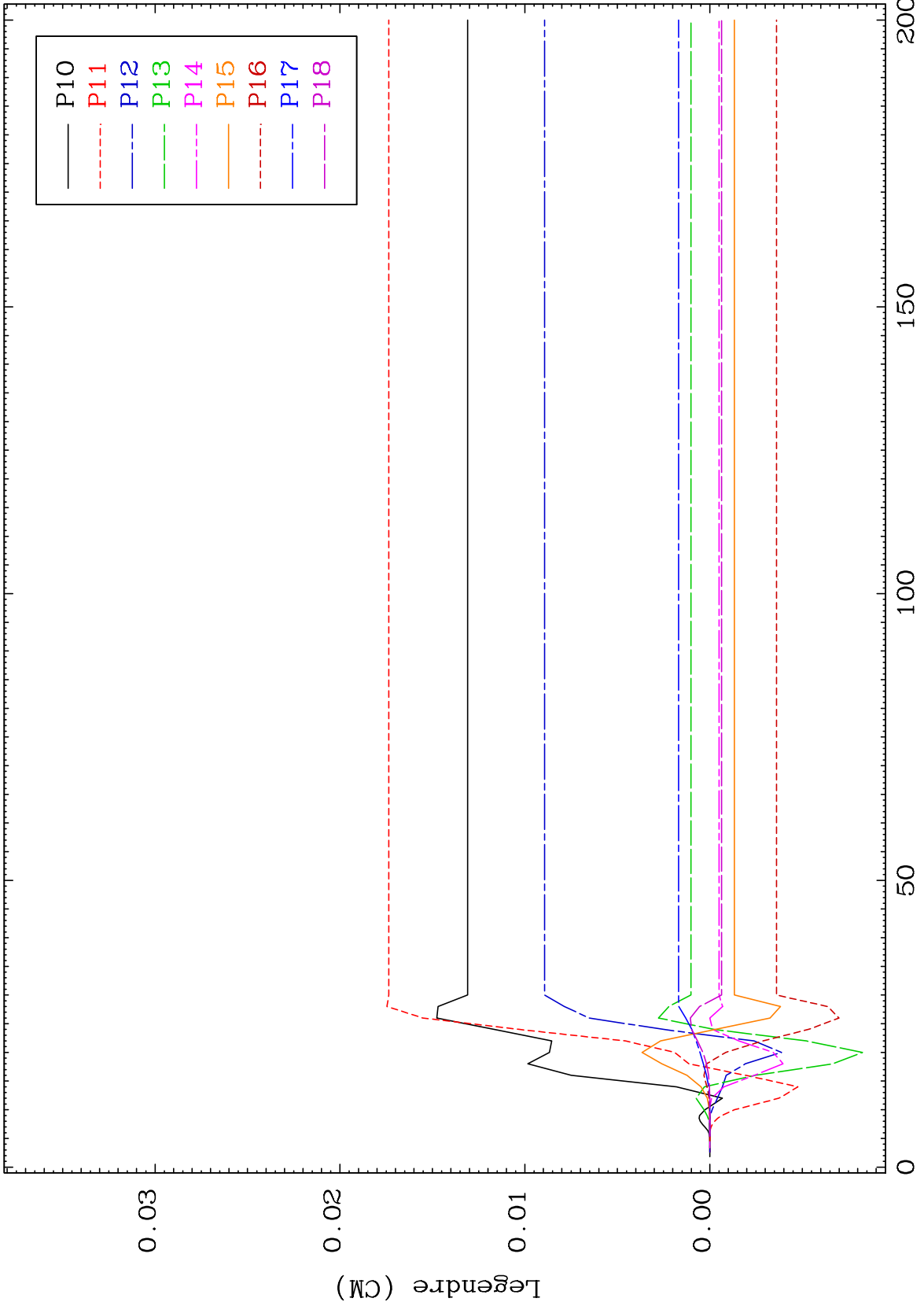
61-Pm-140



MAT 6128

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

61-Pm-140



112

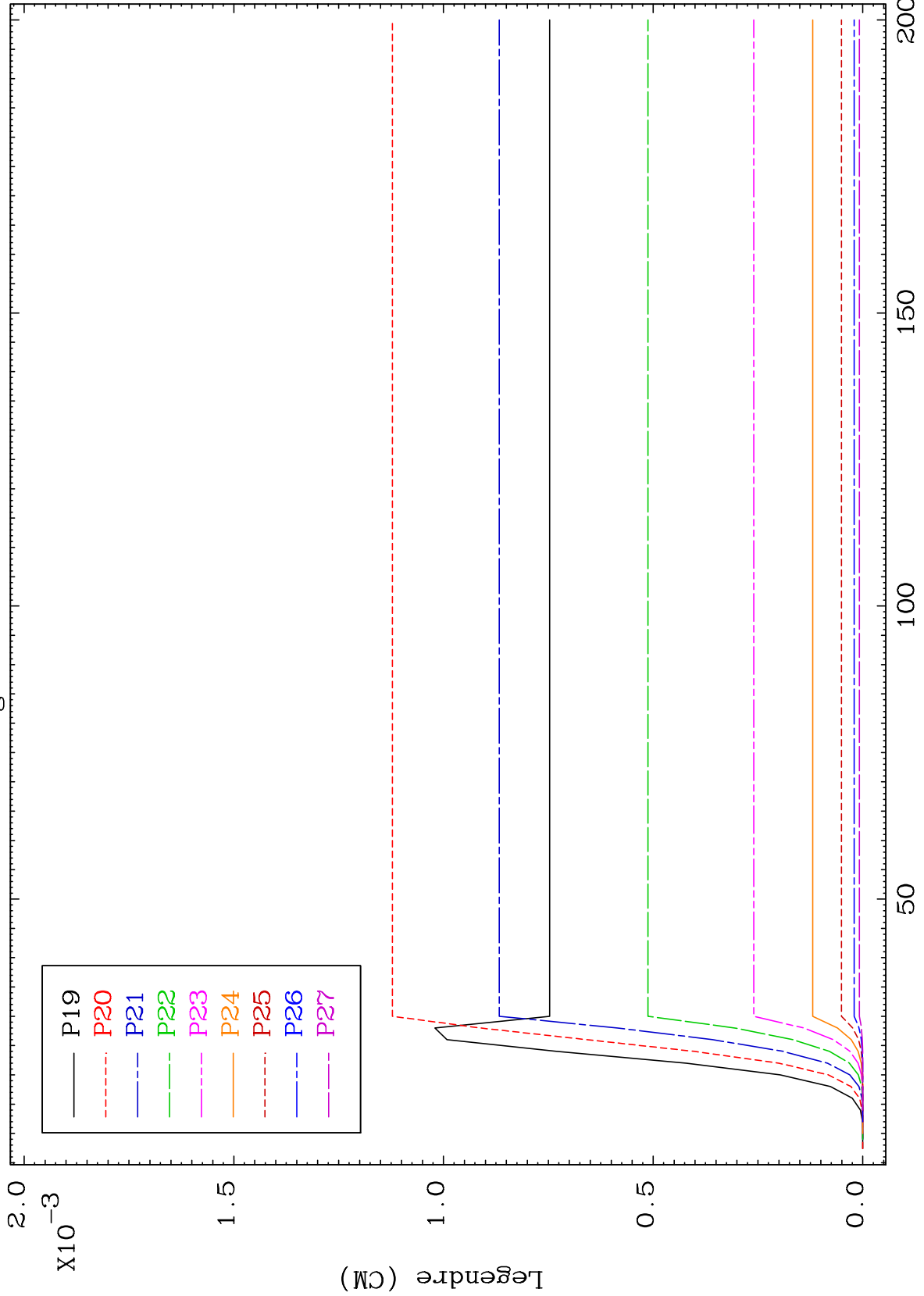
Incident Energy (MeV)

61-Pm-140

MAT 6128

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

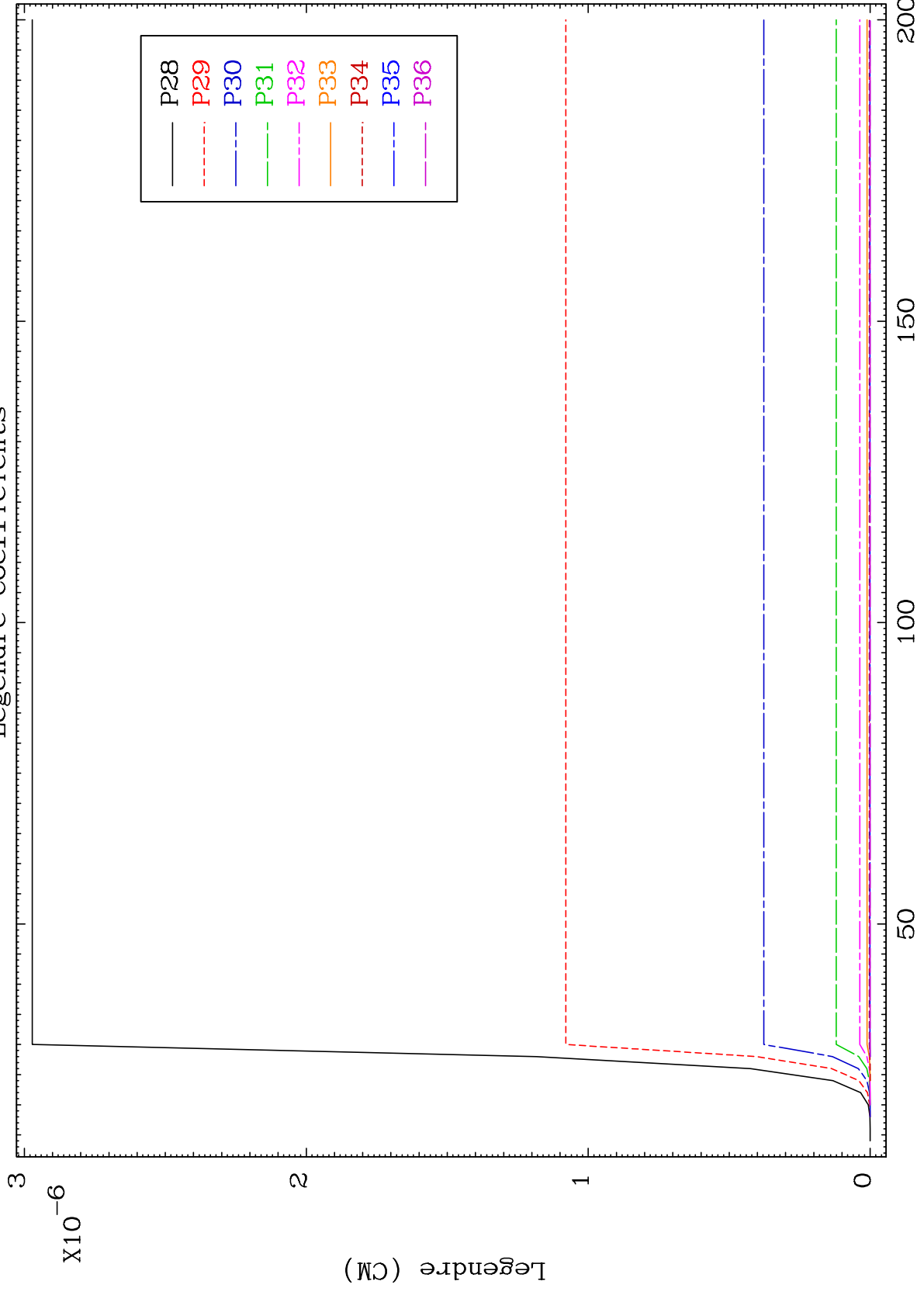
61-Pm-140



113

61-Pm-140

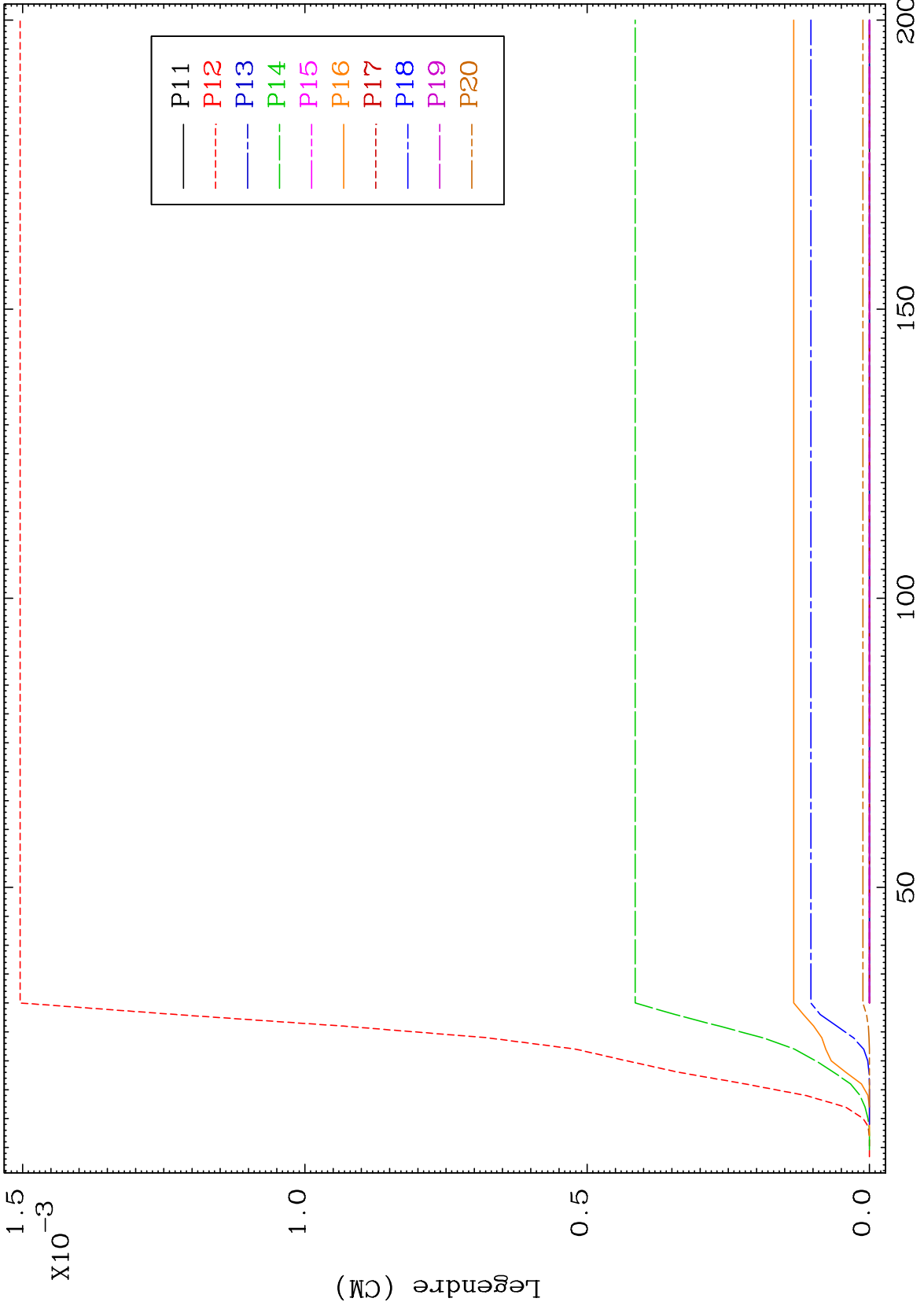
MAT 6128 MT= 79 (n,n') Level Legendre Coefficients 61-Pm-140



114 61-Pm-140

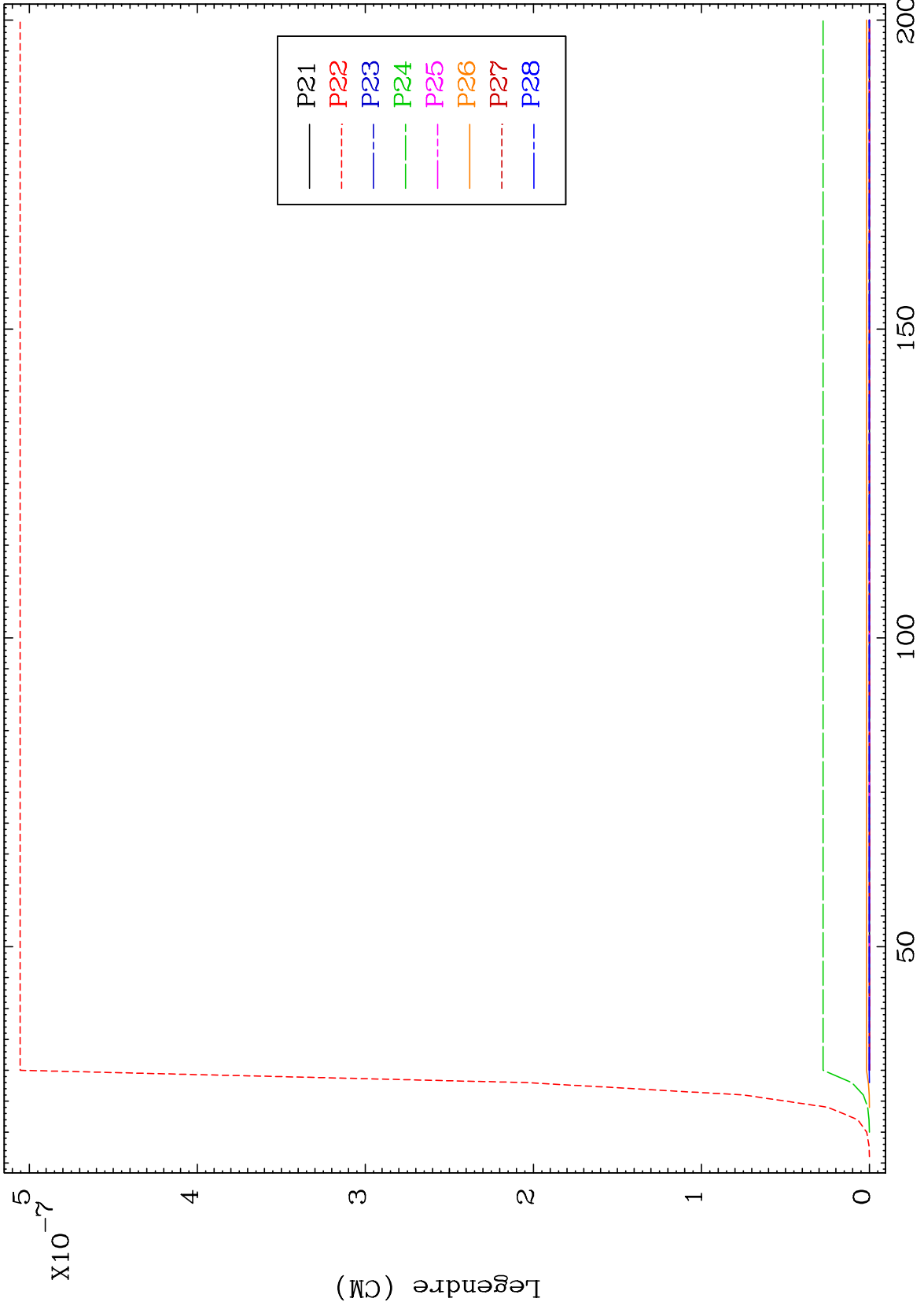


MAT 6128 MT= 80 (n,n') Level Legendre Coefficients 61-Pm-140



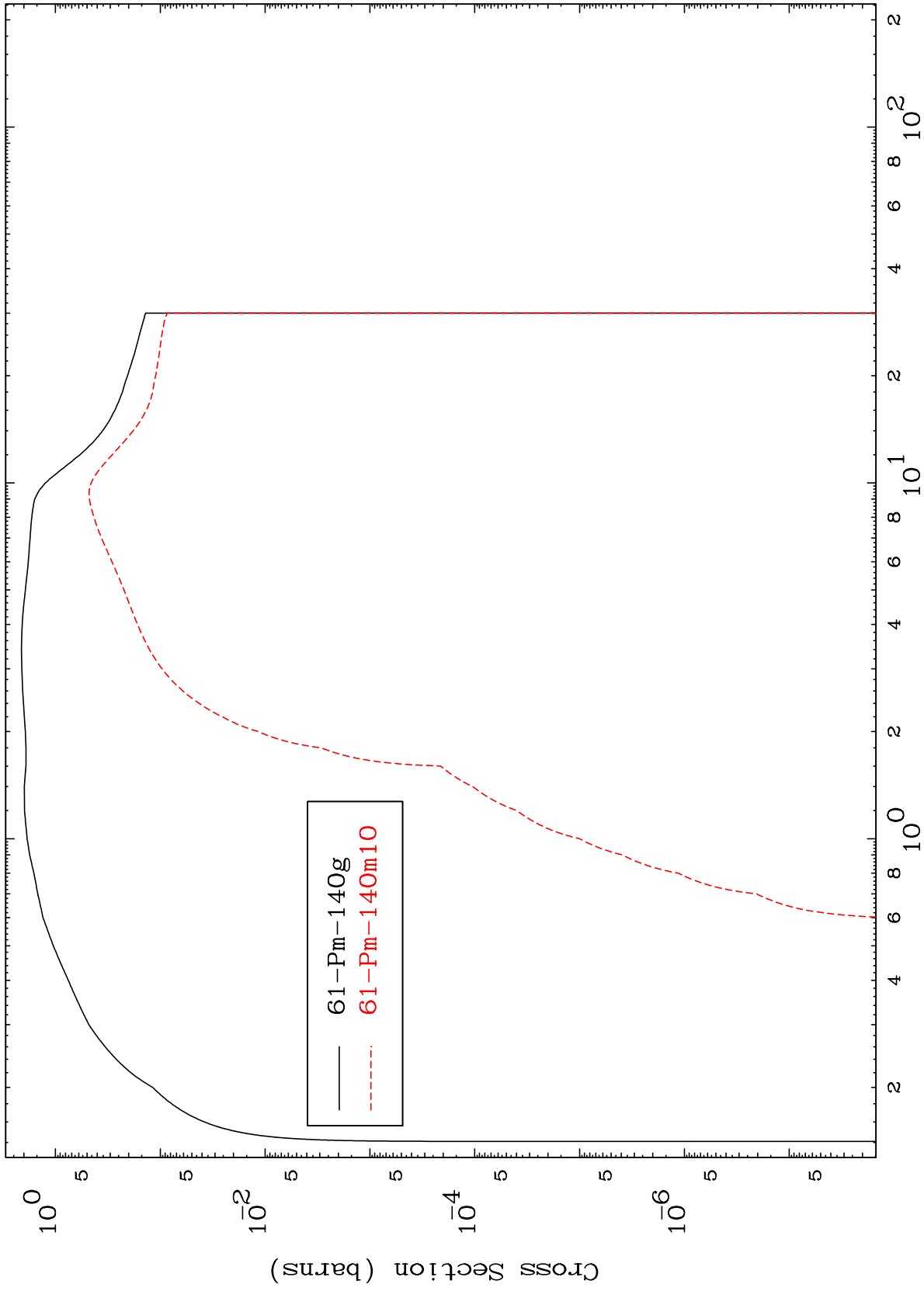
116 Incident Energy (MeV) 61-Pm-140

MAT 6128 MT= 80 (n,n') Level Legendre Coefficients 61-Pm-140

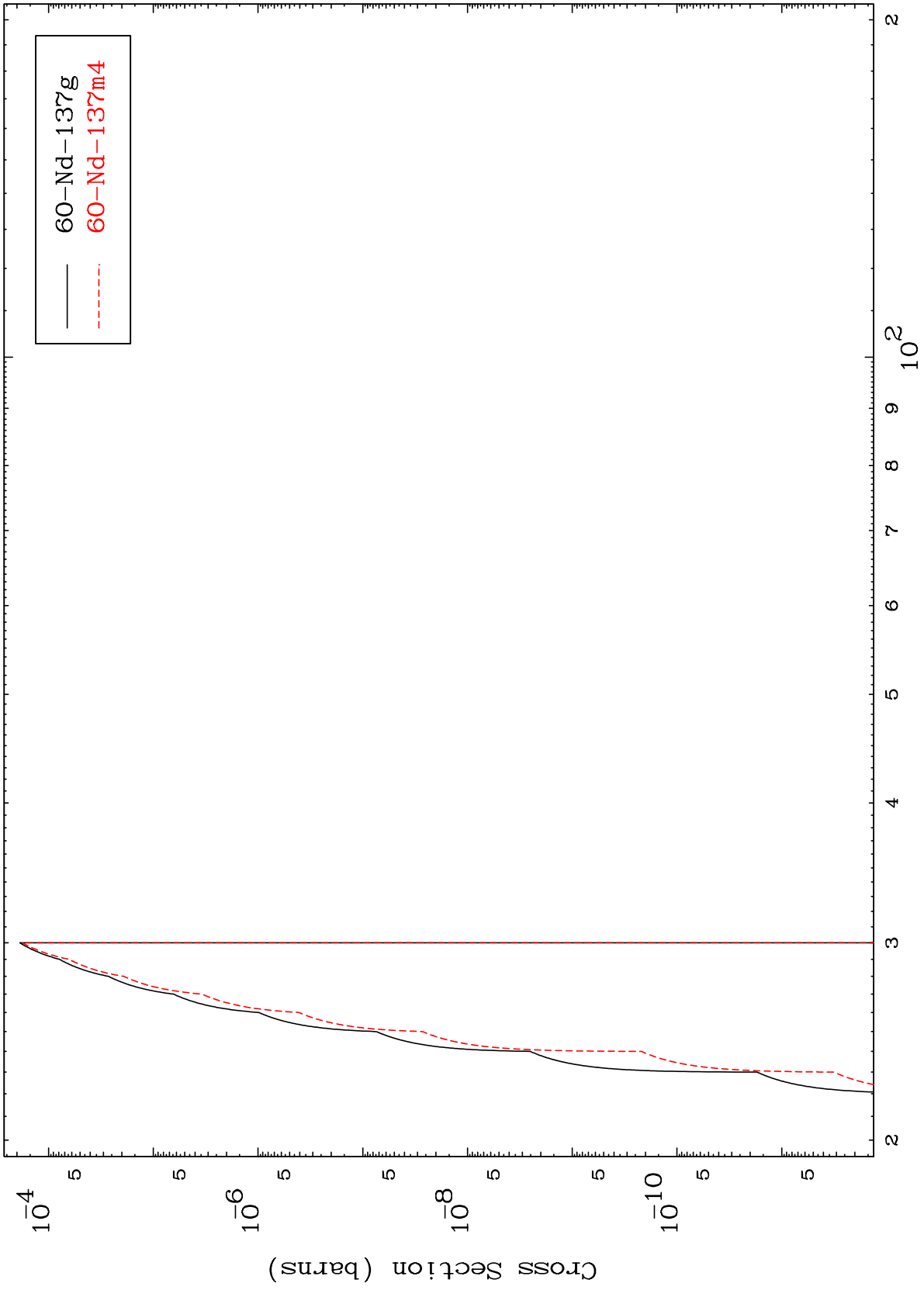


117 61-Pm-140

### Inelastic Radionuclide Production Cross Section



Radionuclide Production Cross Section

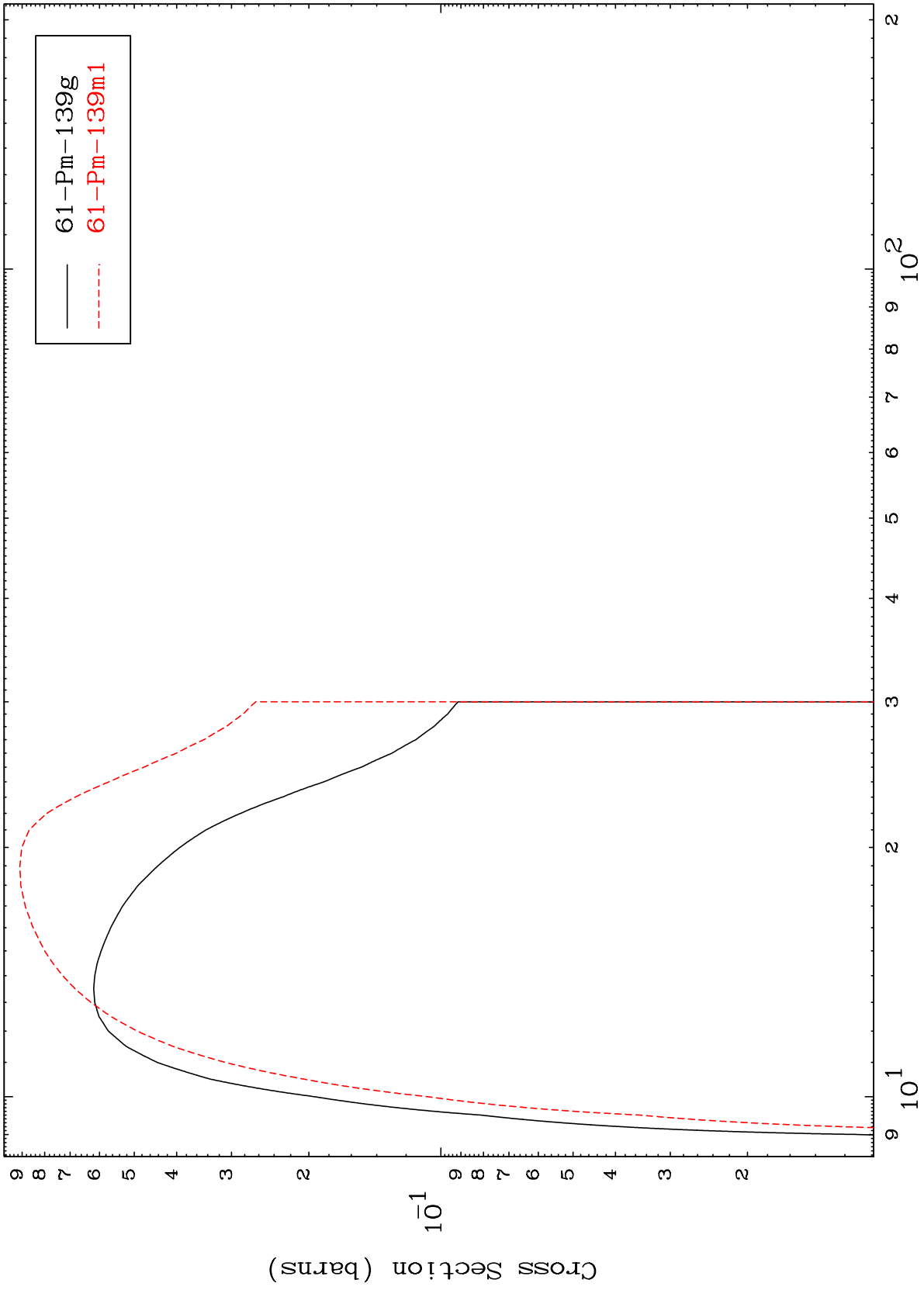




MAT 6128

61-Pm-140

(n,2n)  
Radionuclide Production Cross Section



61-Pm-140

Incident Energy (MeV)

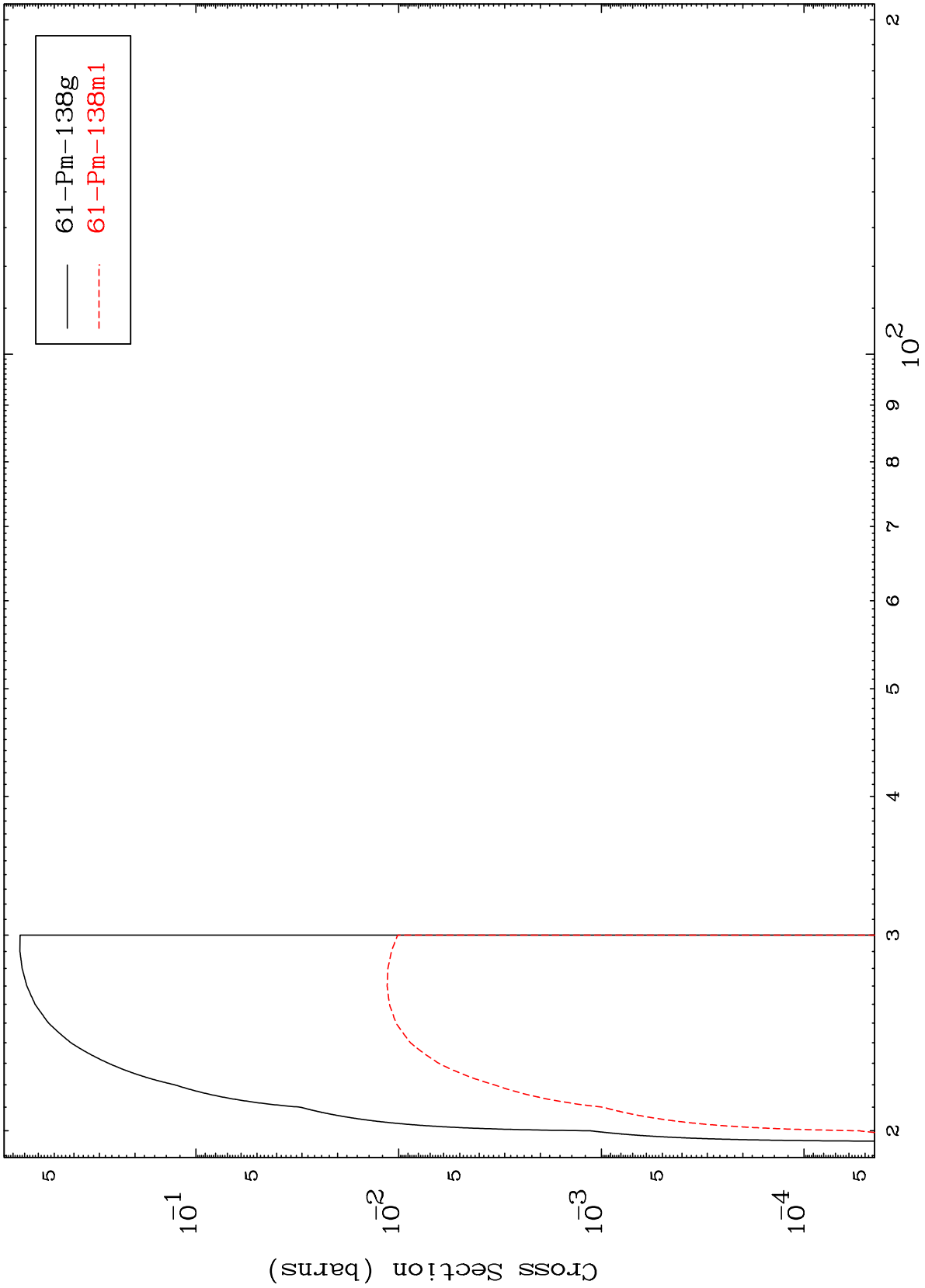
120

MAT 6128

(n,3n)

61-Pm-140

Radionuclide Production Cross Section



61-Pm-138g  
61-Pm-138m1

121

Incident Energy (MeV)

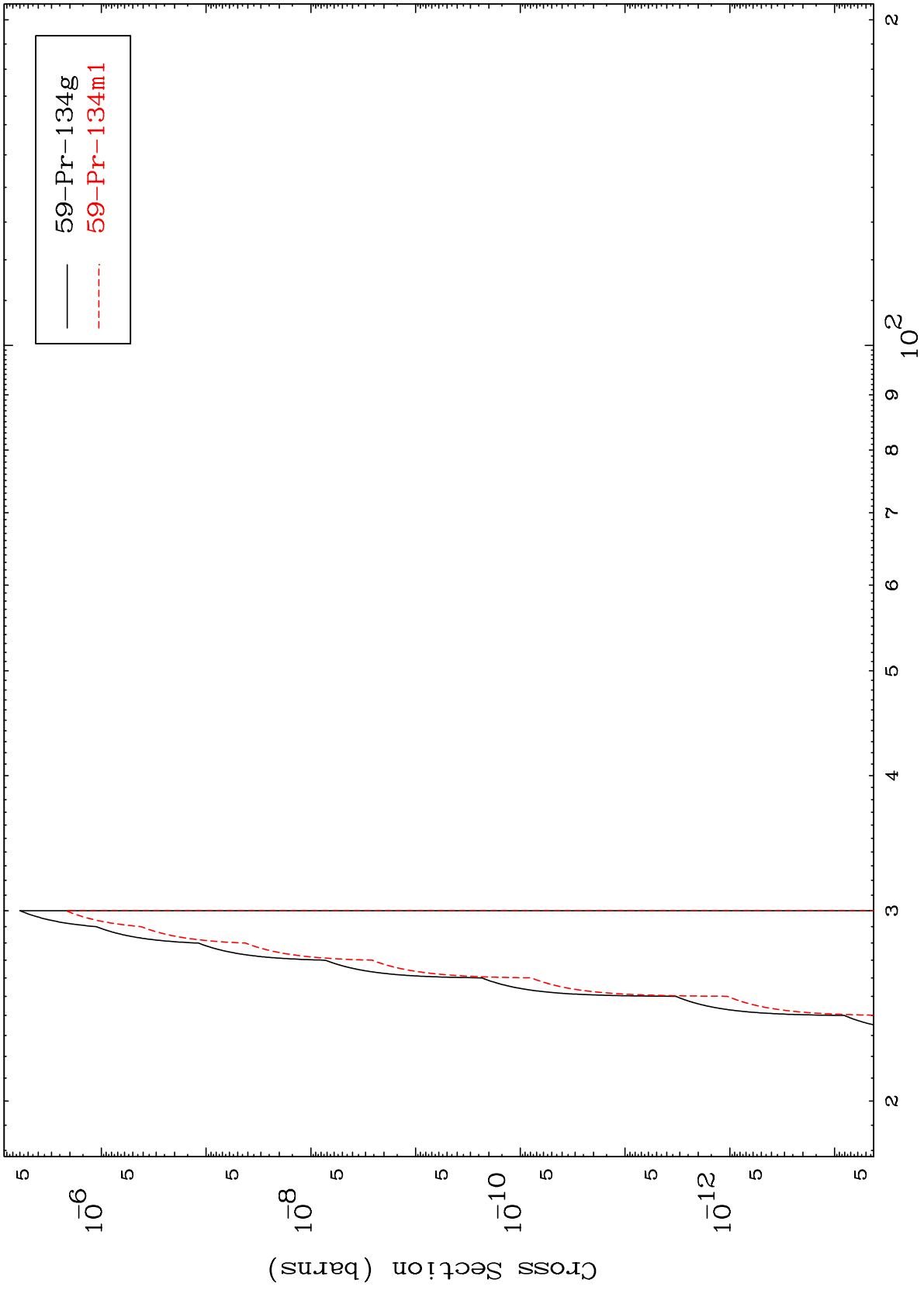
61-Pm-140

MAT 6128

(n,3n)  $\alpha$

61-Pm-140

Radionuclide Production Cross Section



122

Incident Energy (MeV)

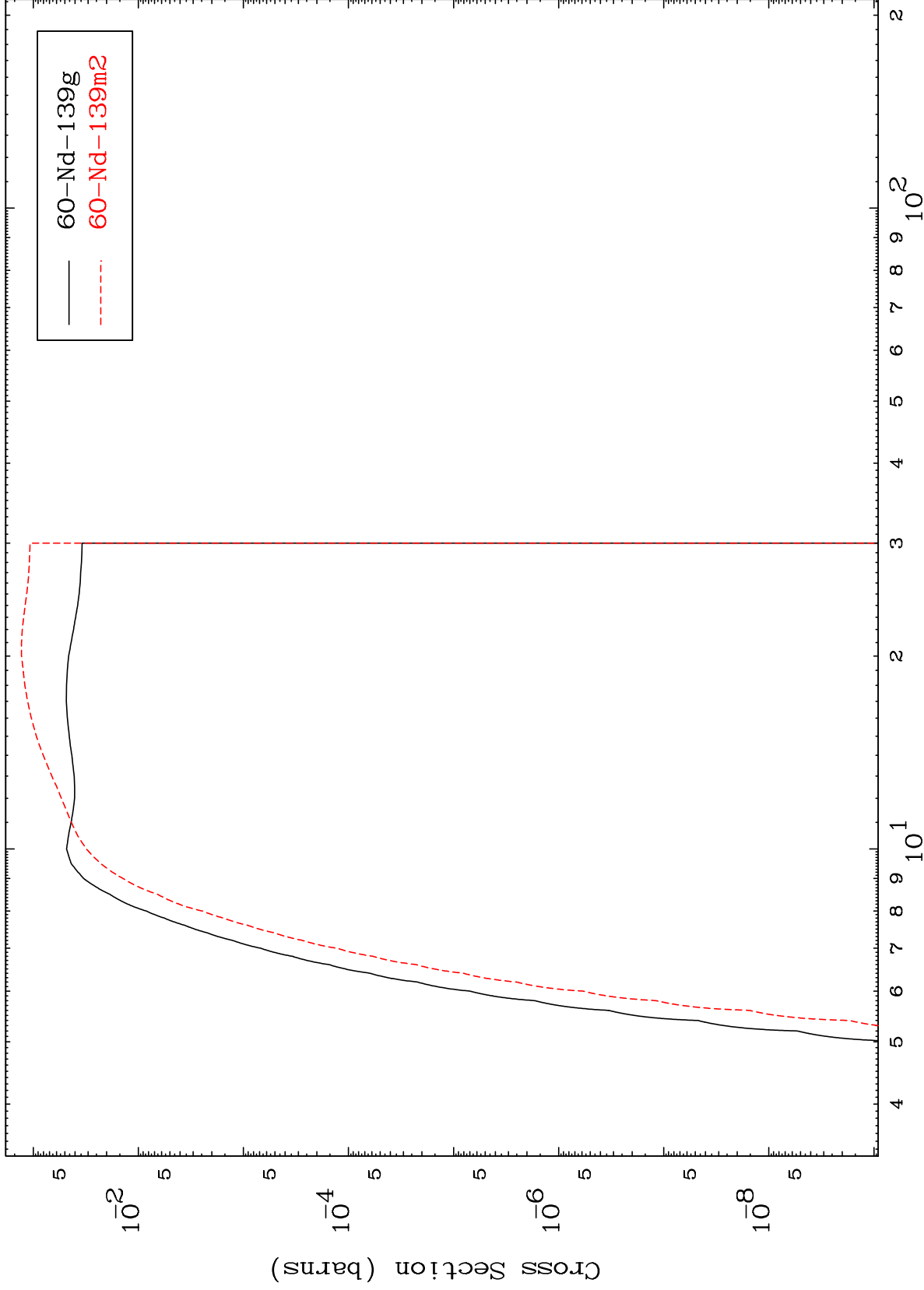
61-Pm-140

MAT 6128

(n,n') p

61-Pm-140

Radionuclide Production Cross Section



123

Incident Energy (MeV)

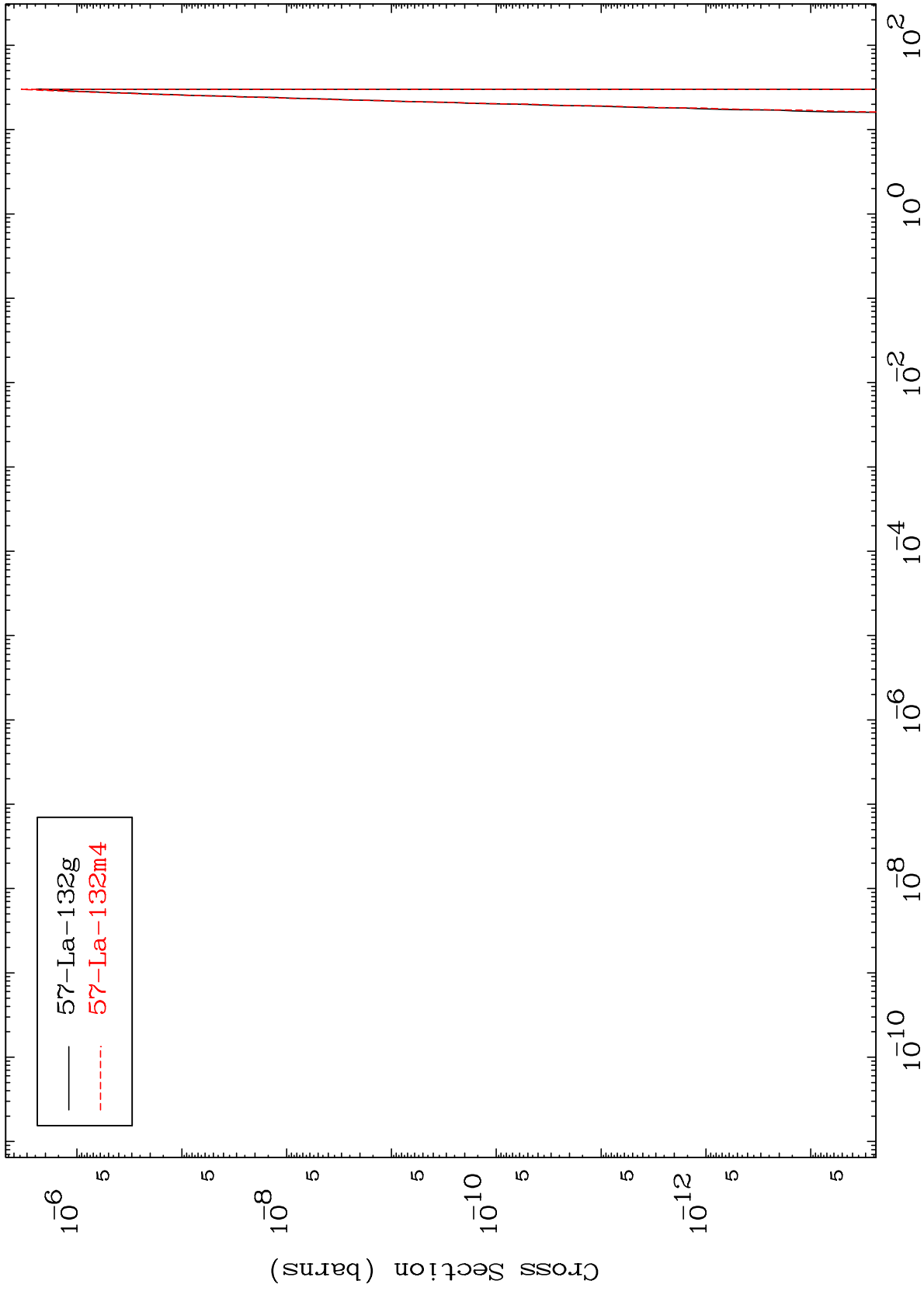
61-Pm-140

MAT 6128

(n,n') 2 $\alpha$

61-Pm-140

Radionuclide Production Cross Section



124

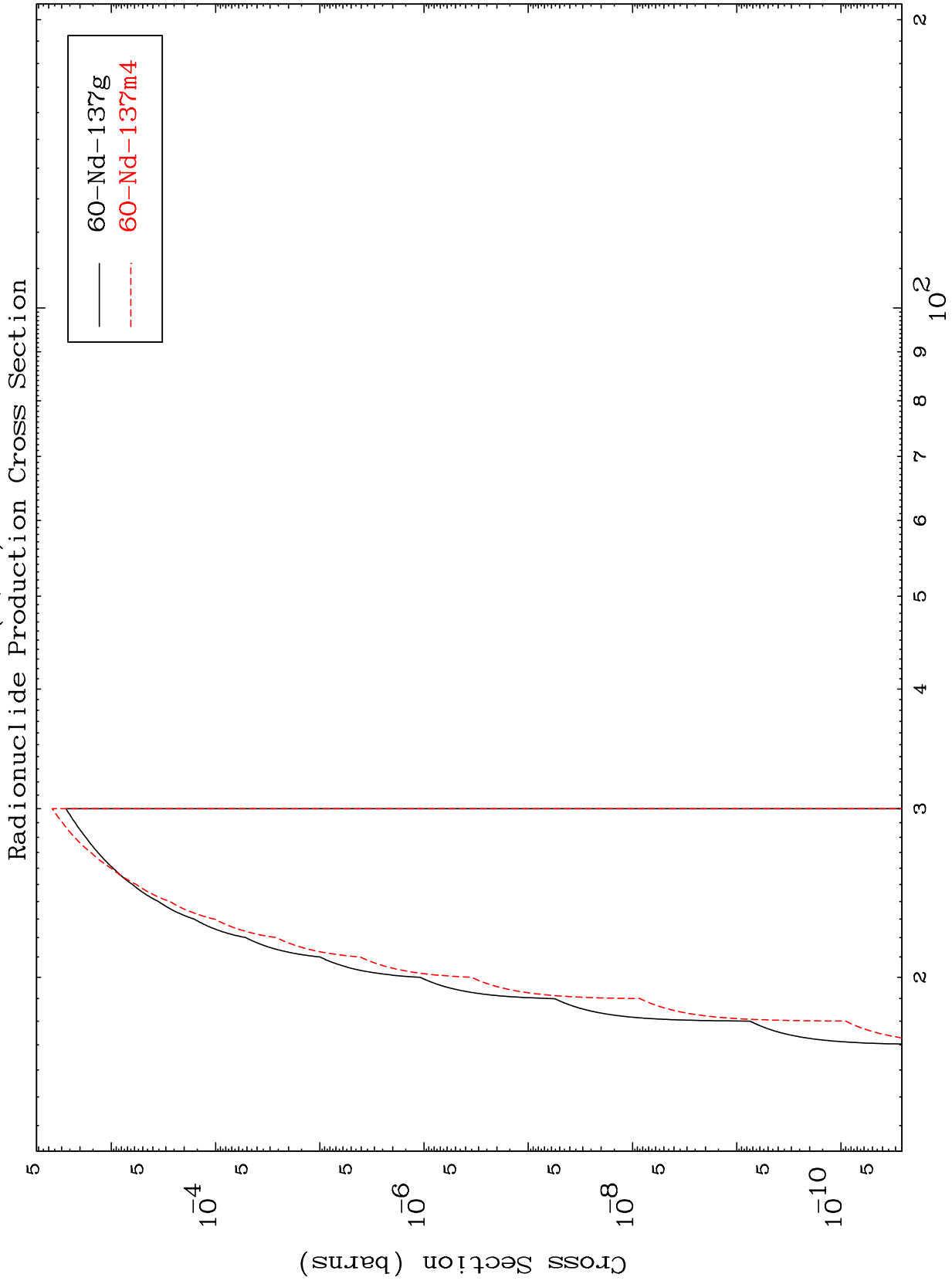
Incident Energy (MeV)

61-Pm-140

MAT 6128

(n,n') t

61-Pm-140



125

61-Pm-140

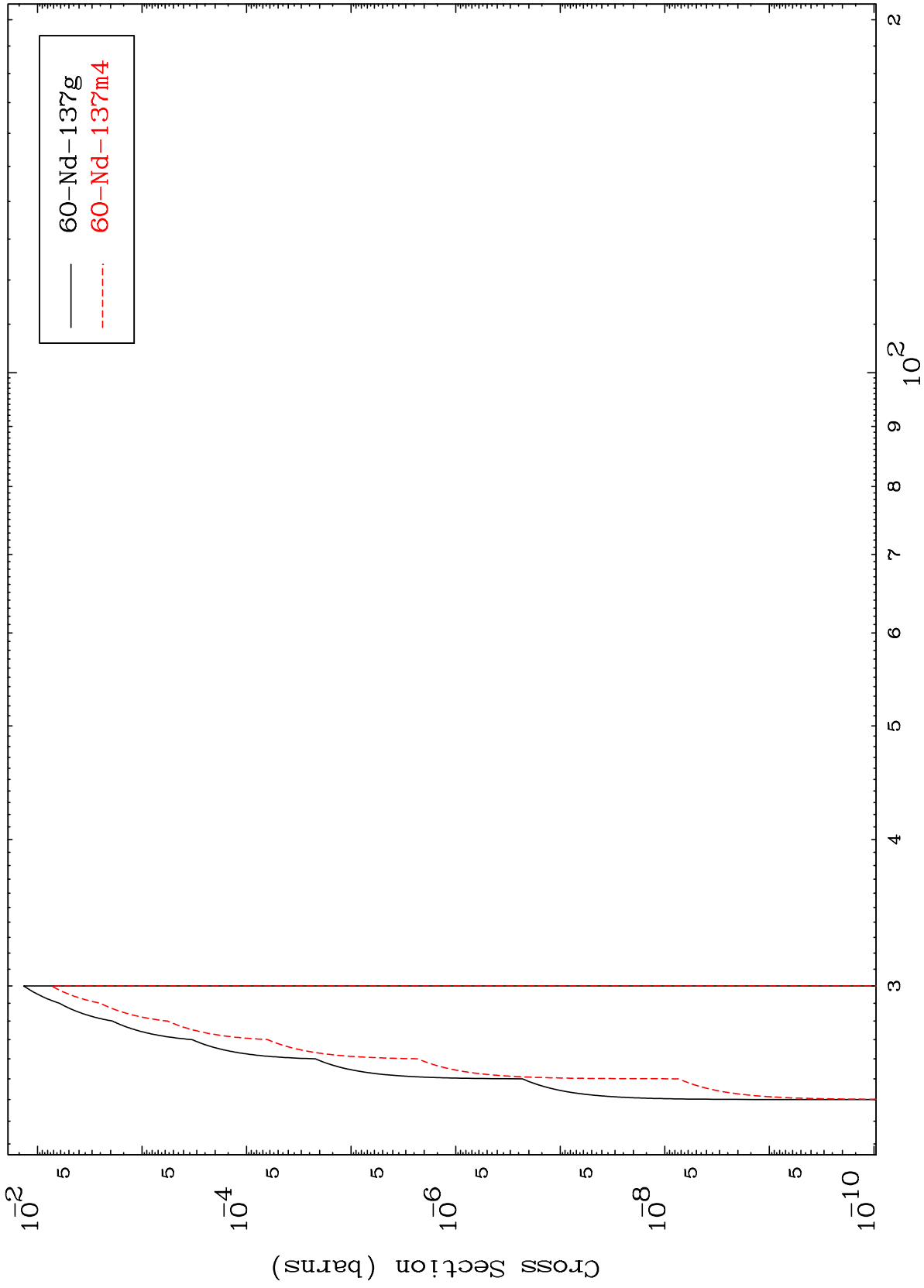
61-Pm-140

MAT 6128

(n,3n) p

61-Pm-140

Radionuclide Production Cross Section



126

Incident Energy (MeV)

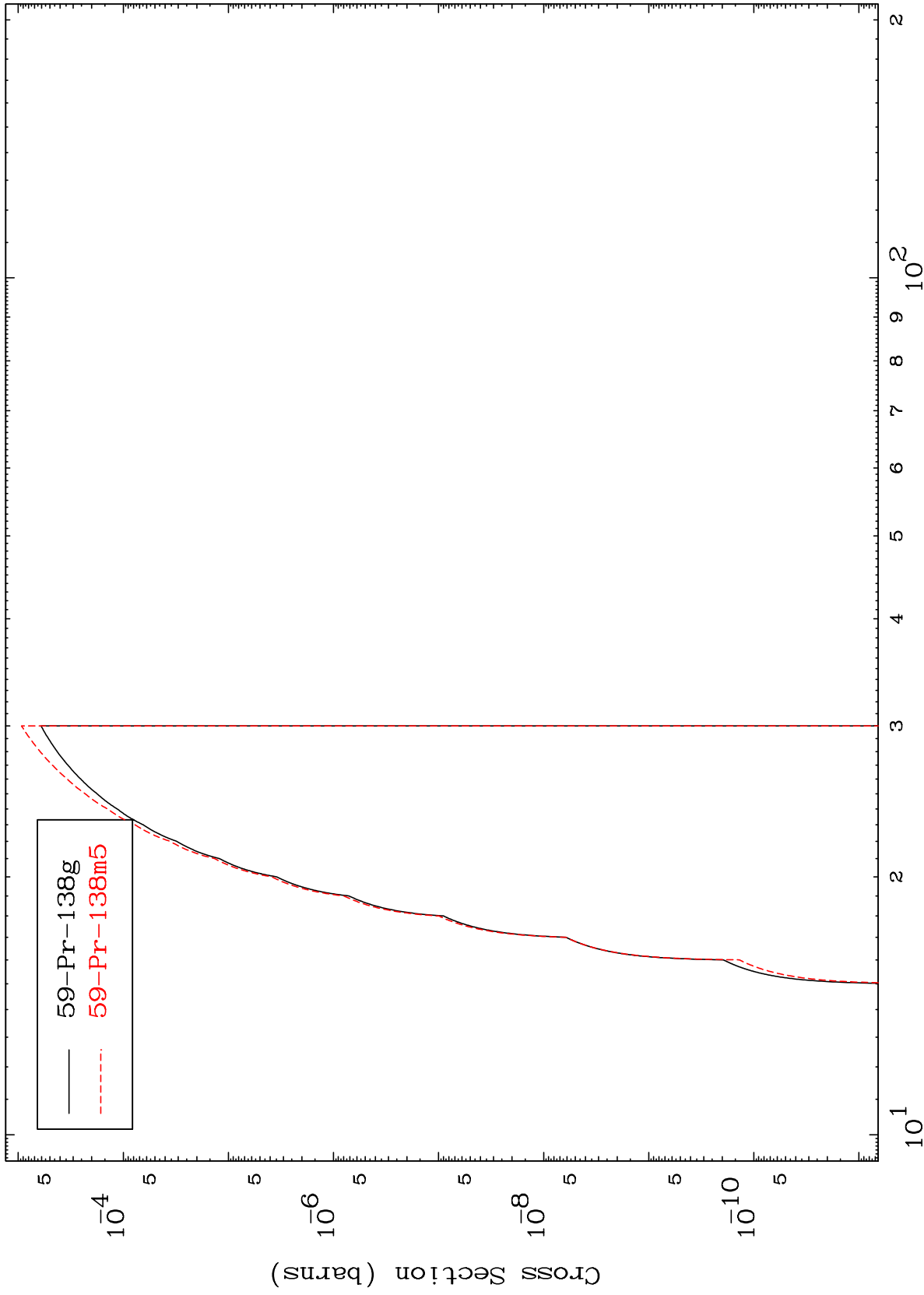
61-Pm-140

MAT 6128

(n,2n) p

61-Pm-140

Radionuclide Production Cross Section



127

Incident Energy (MeV)

61-Pm-140

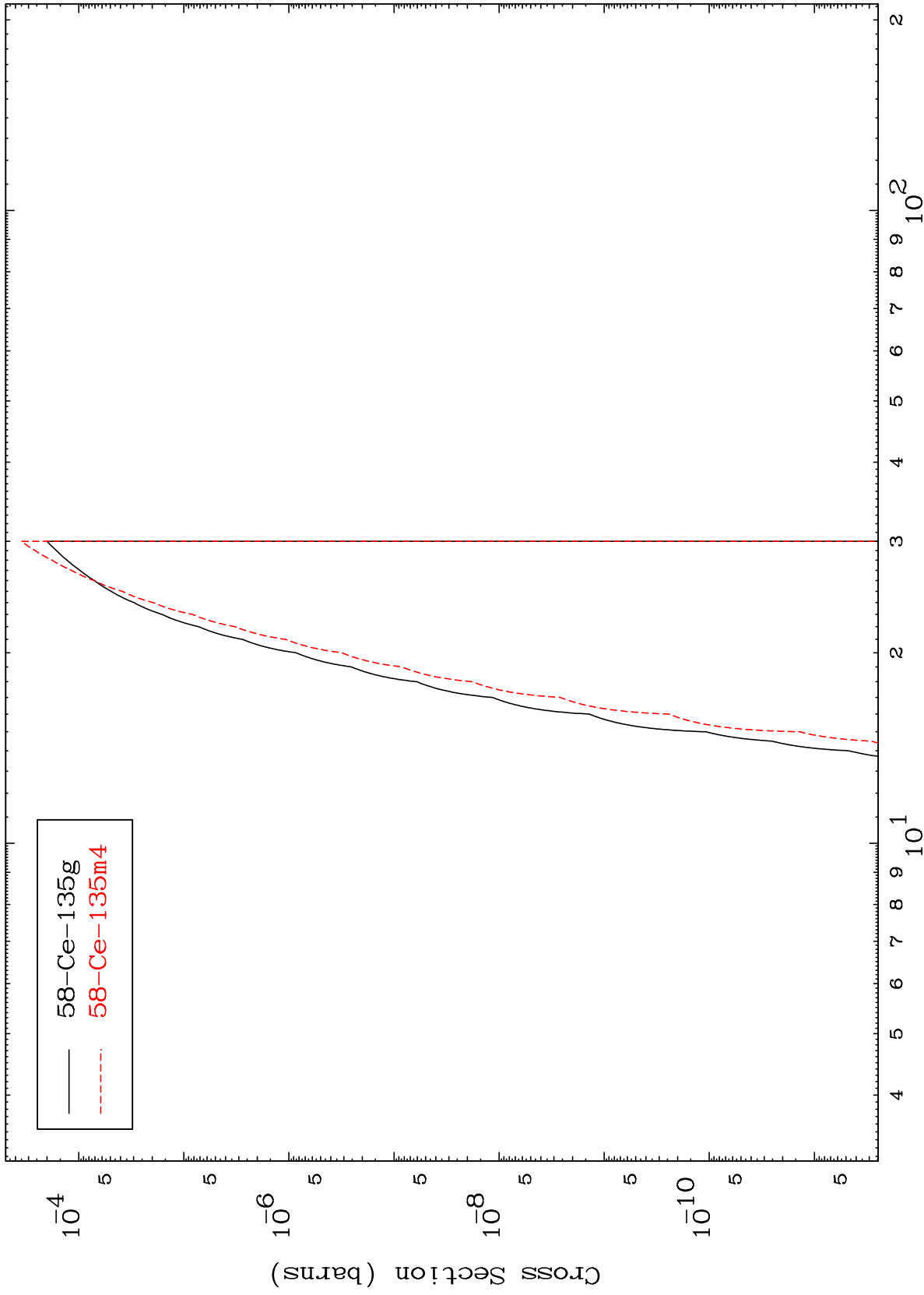


MAT 6128

(n,n') p  $\alpha$

61-Pm-140

Radionuclide Production Cross Section



128

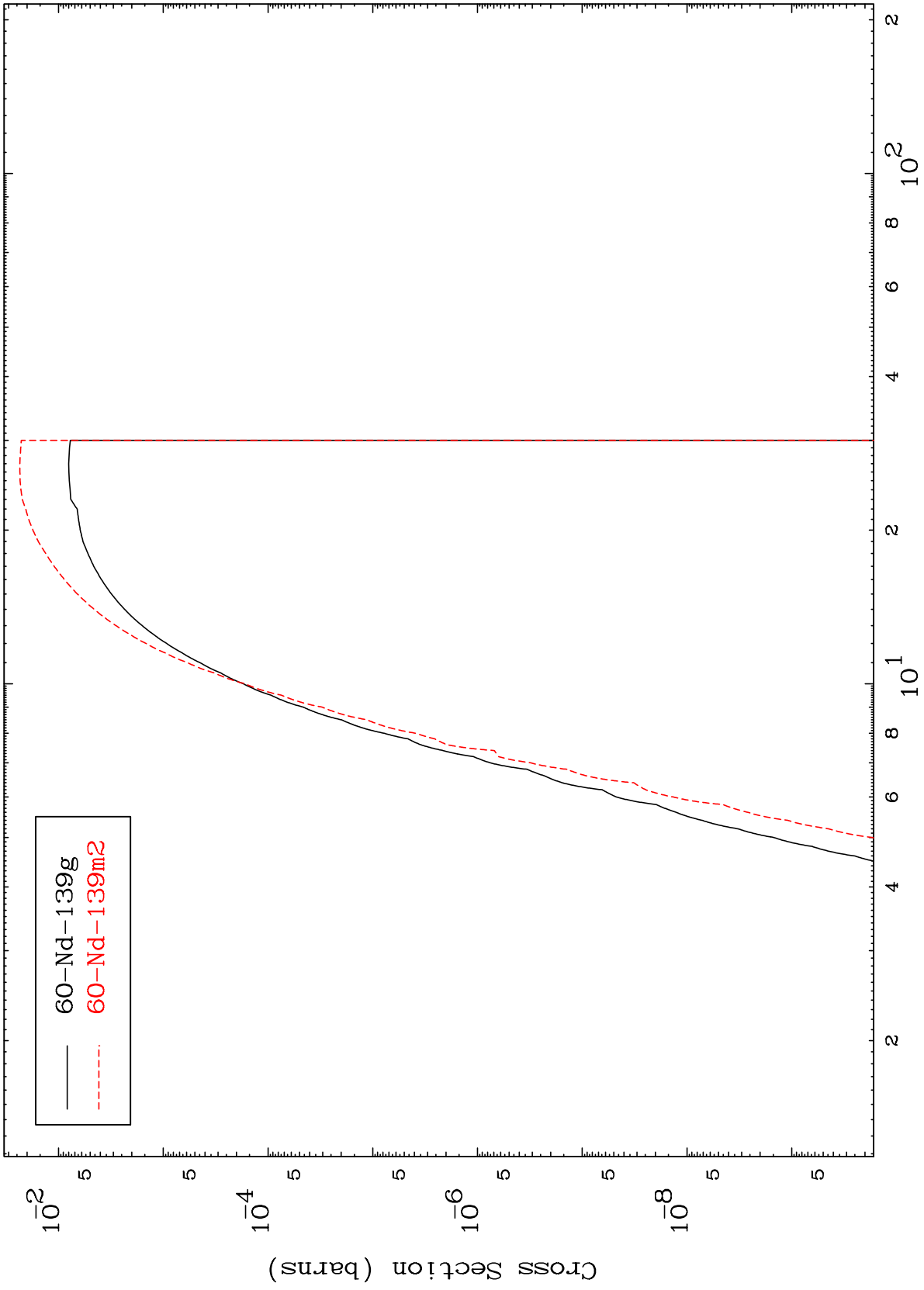
Incident Energy (MeV)

61-Pm-140

MAT 6128

61-Pm-140

(n,d)  
Radionuclide Production Cross Section



129

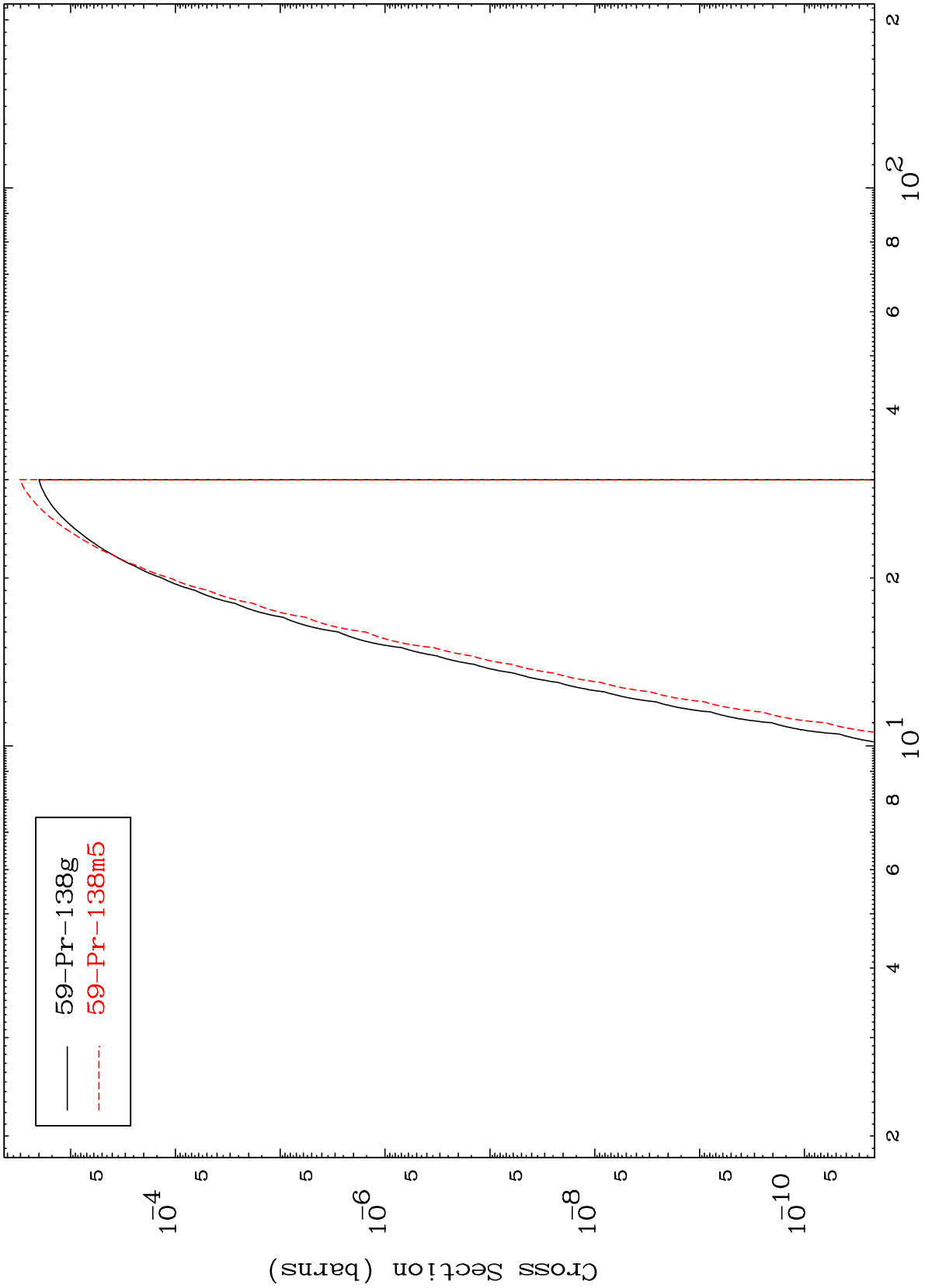
61-Pm-140

MAT 6128

(n, He-3)

61-Pm-140

Radionuclide Production Cross Section



59-Pr-138g  
59-Pr-138m5

130

Incident Energy (MeV)

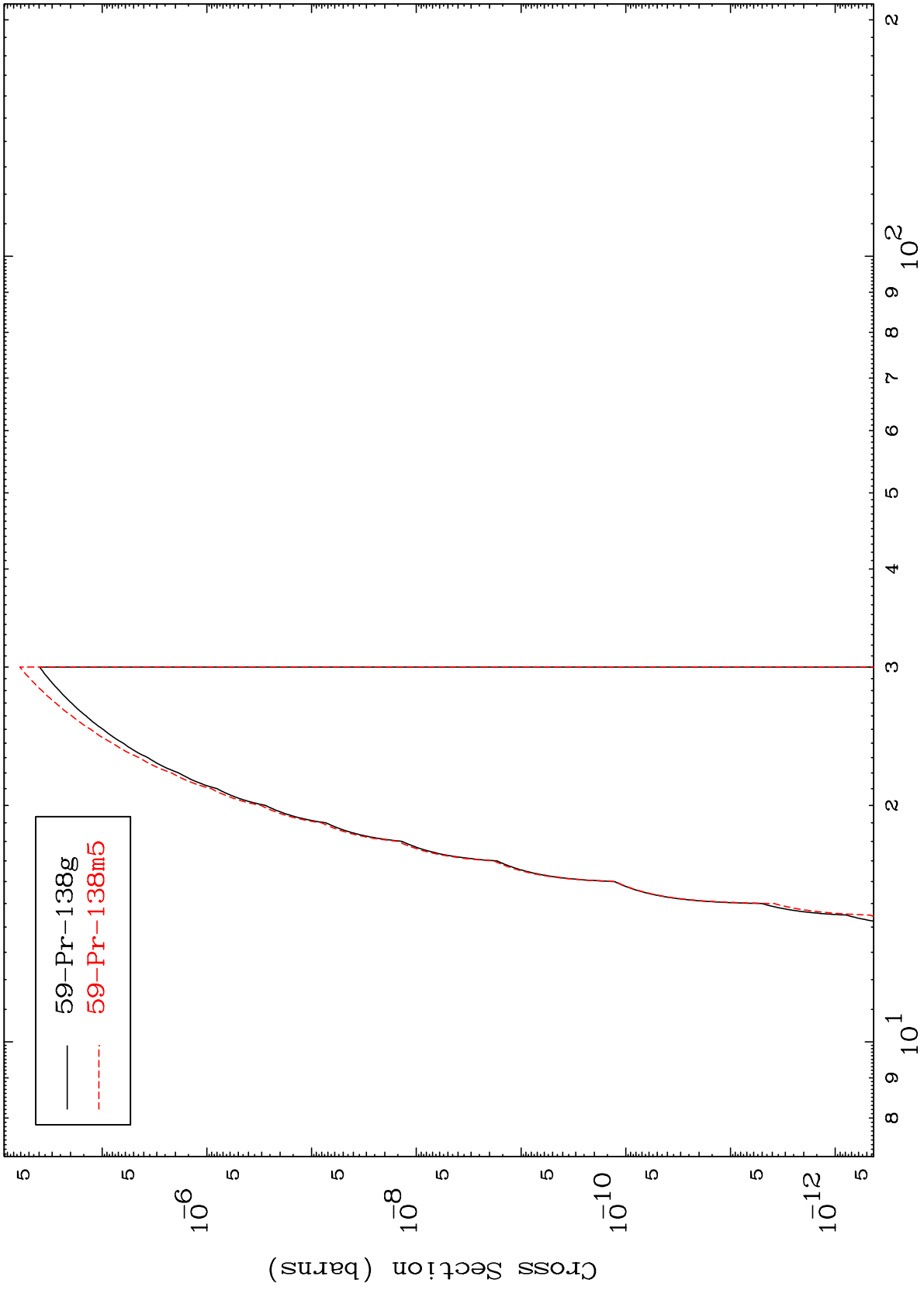
61-Pm-140

MAT 6128

(n,p) d

61-Pm-140

Radionuclide Production Cross Section



131

Incident Energy (MeV)

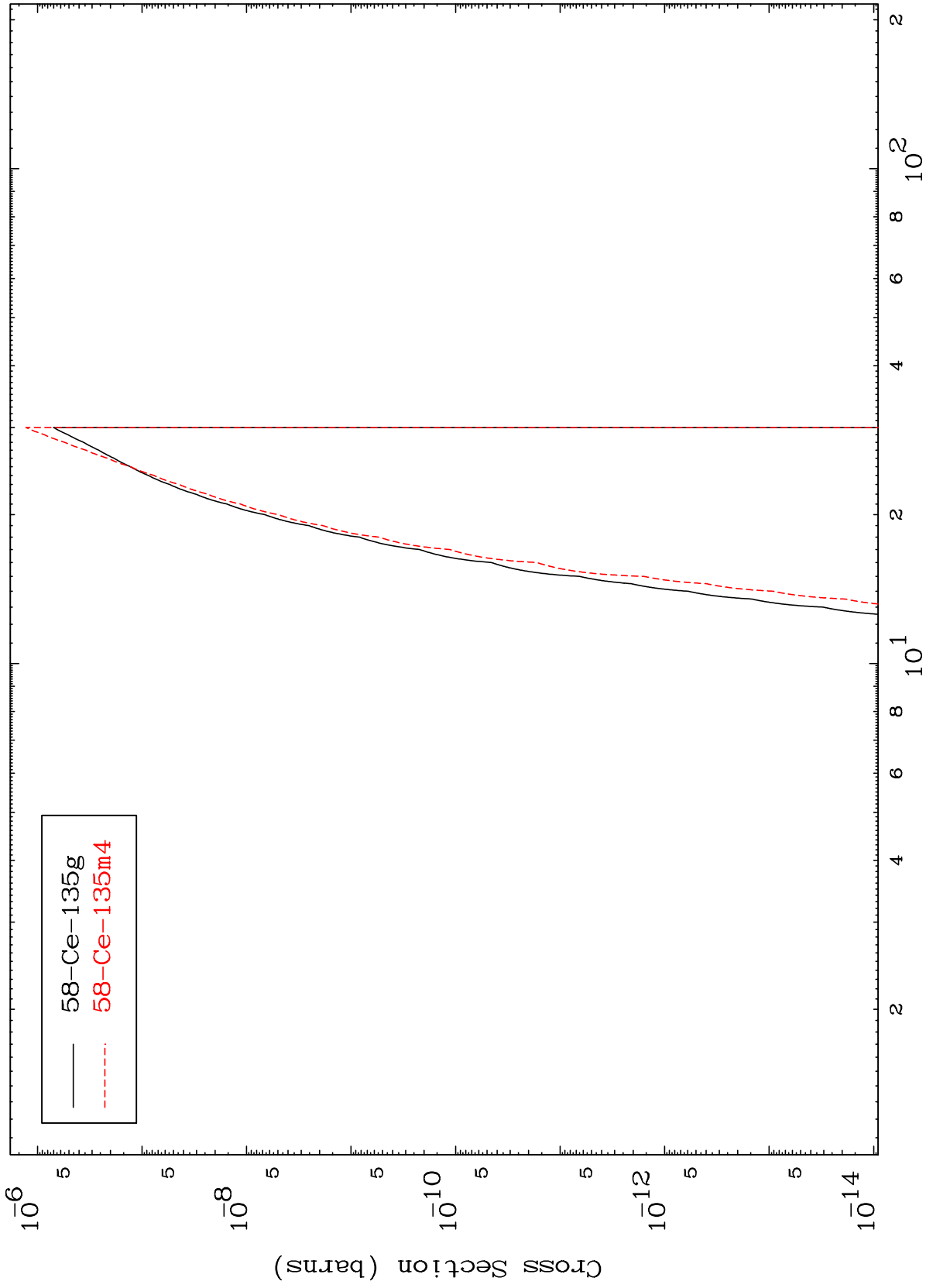
61-Pm-140

MAT 6128

(n,d)  $\alpha$

61-Pm-140

Radionuclide Production Cross Section



132

Incident Energy (MeV)

61-Pm-140