

Program EVALPLOT  
(Version 2018-1)

by

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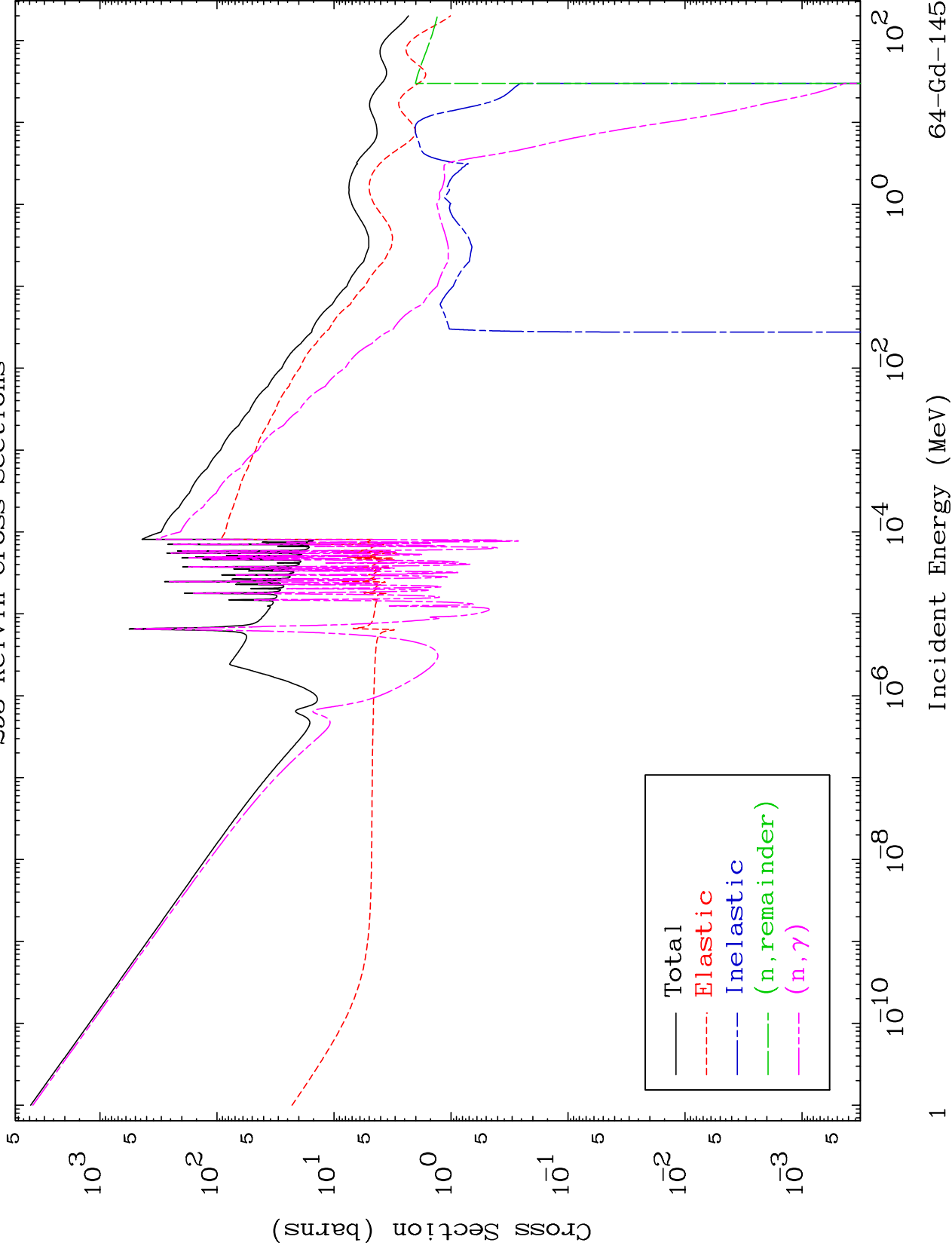
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6404

Major  
293 Kelvin Cross Sections

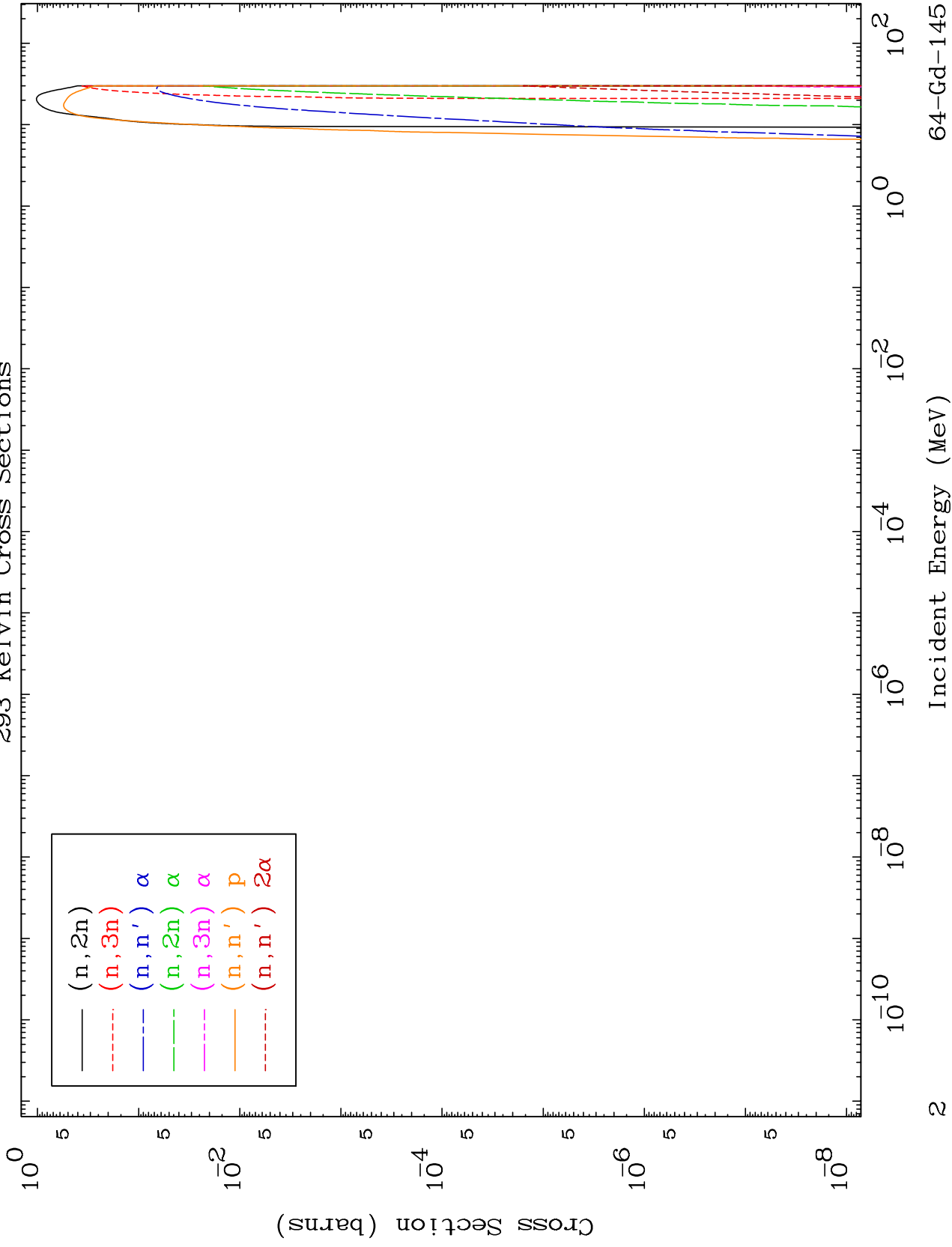
64-Gd-145



MAT 6404

Neutron Production  
293 Kelvin Cross Sections

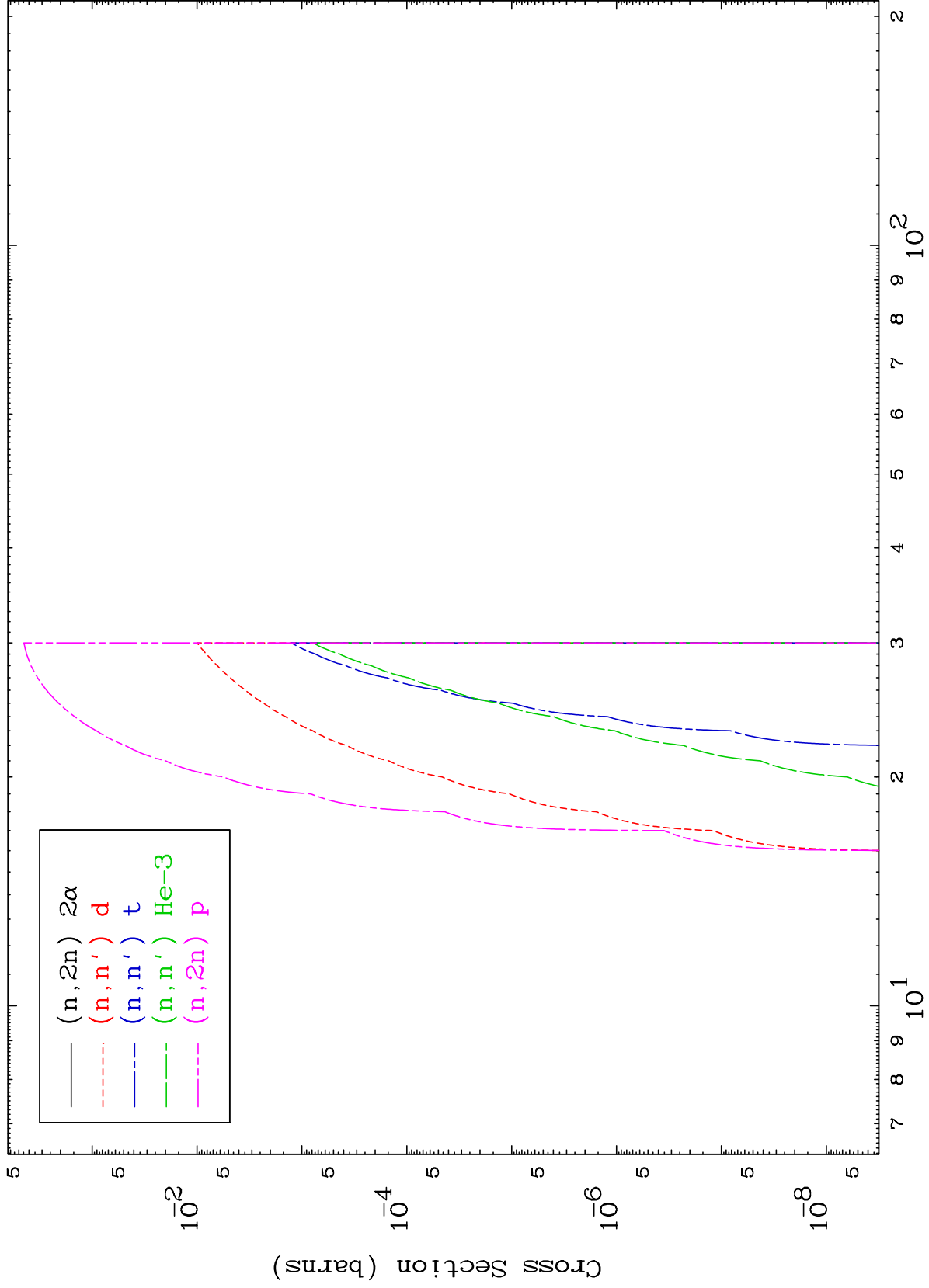
64-Gd-145



MAT 6404

Neutron Production  
293 Kelvin Cross Sections

64-Gd-145



3

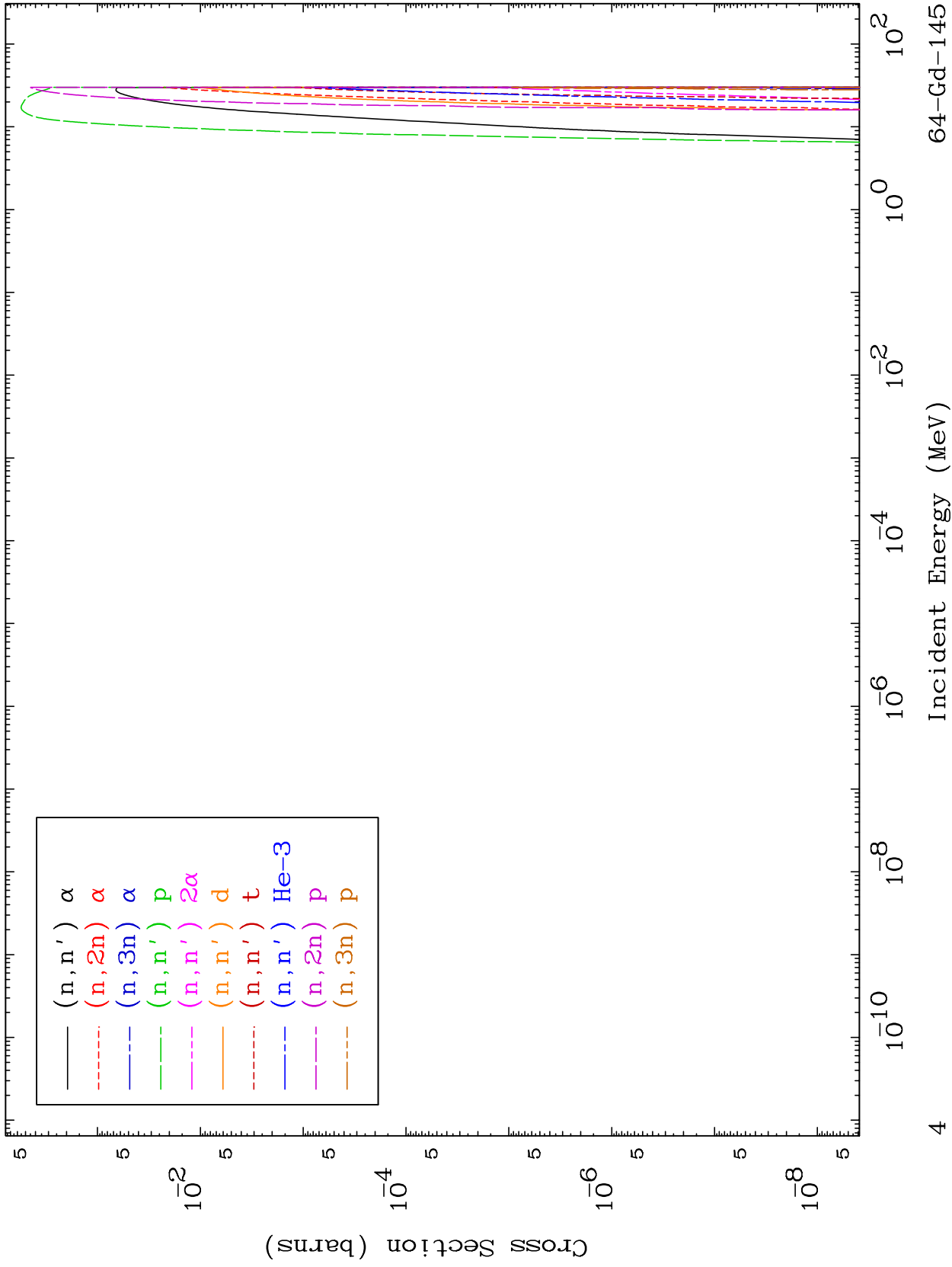
Incident Energy (MeV)

64-Gd-145

MAT 6404

Charged Particle  
293 Kelvin Cross Sections

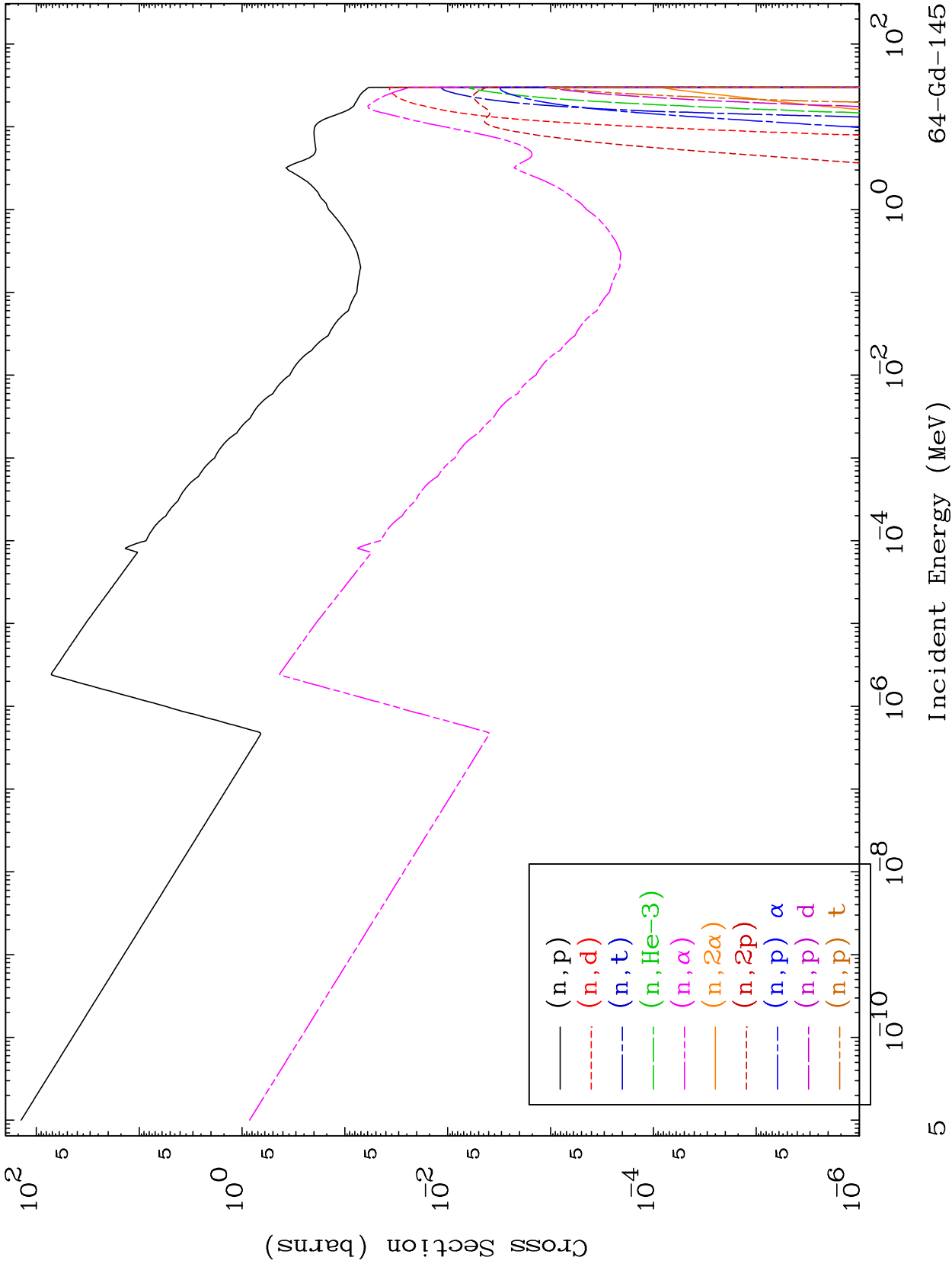
64-Gd-145



MAT 6404

Charged Particle  
293 Kelvin Cross Sections

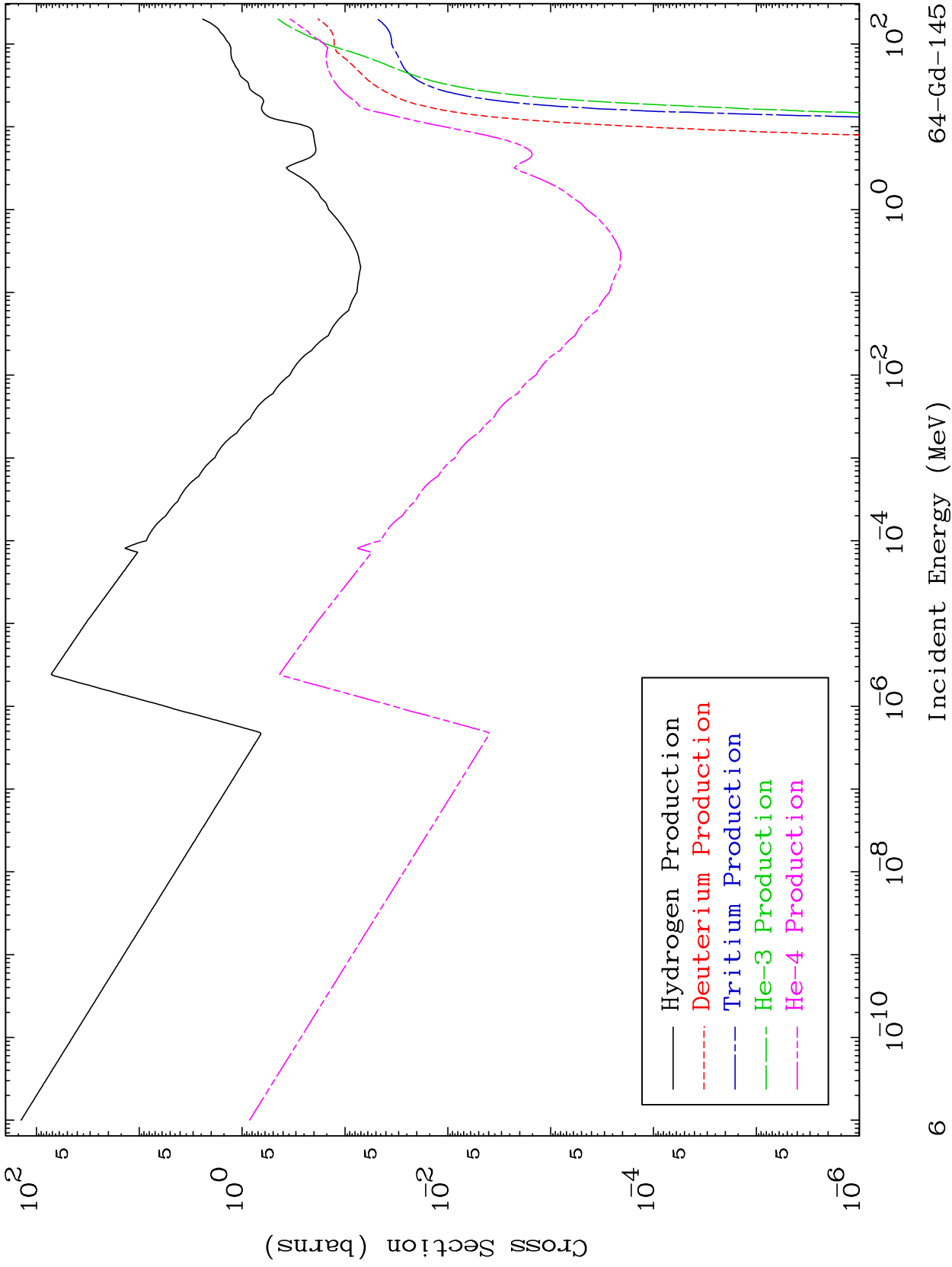
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MAT 6404

Particle Production  
293 Kelvin Cross Sections

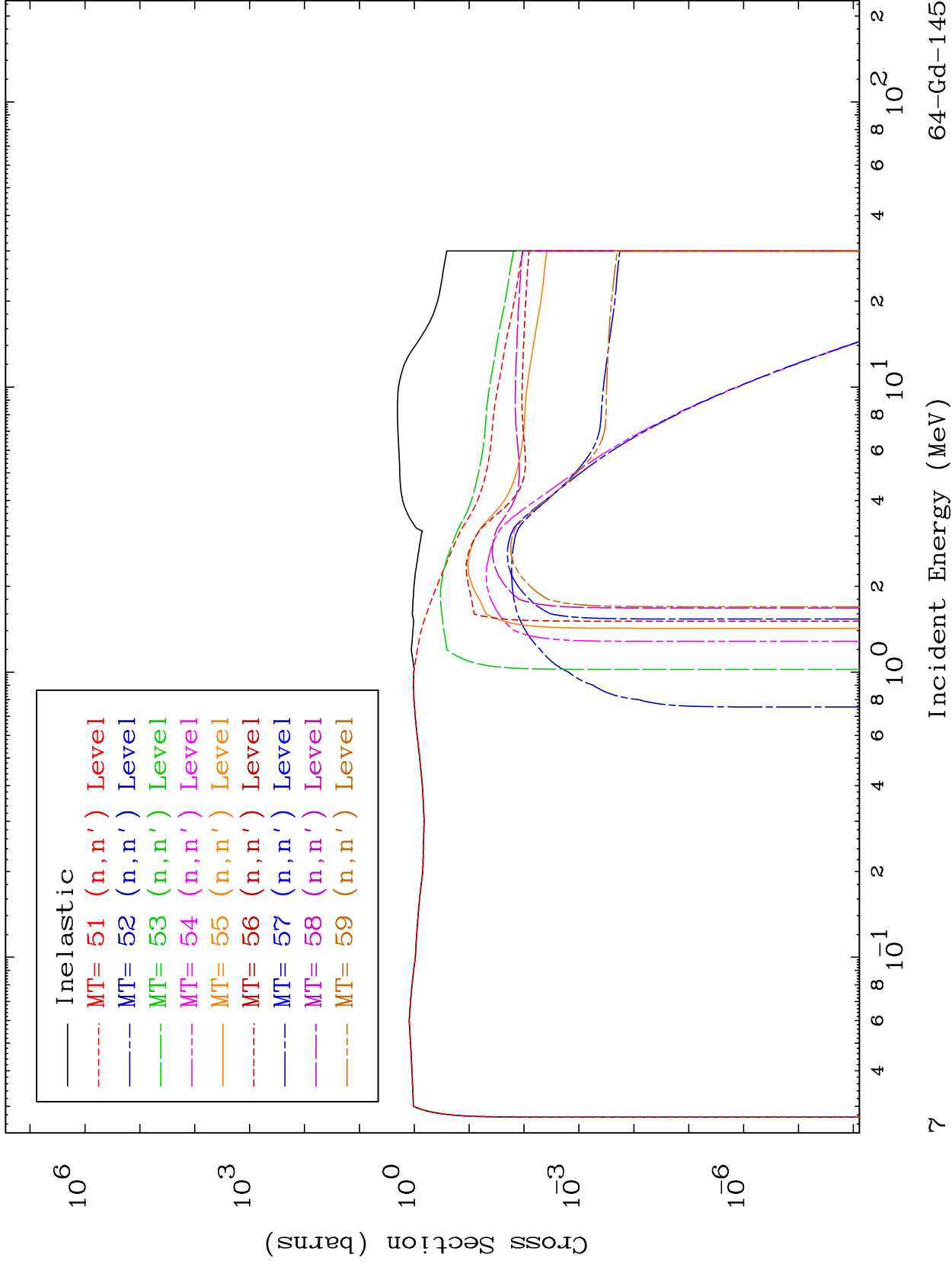
64-Gd-145



MAT 6404

(n,n') Level  
293 Kelvin Cross Sections

64-Gd-145



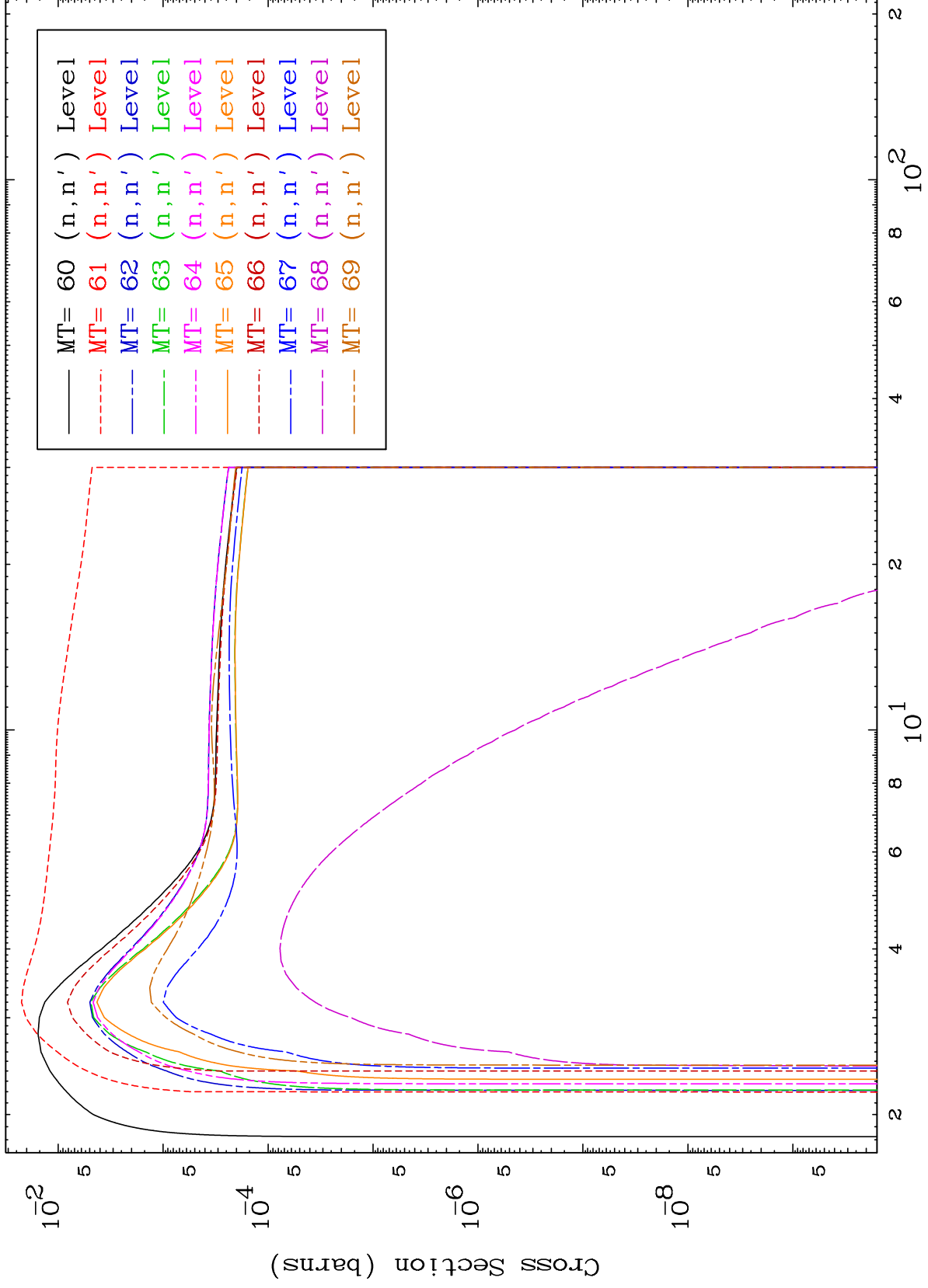


MAT 6404

(n,n') Level

64-Gd-145

293 Kelvin Cross Sections



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Incident Energy (MeV)

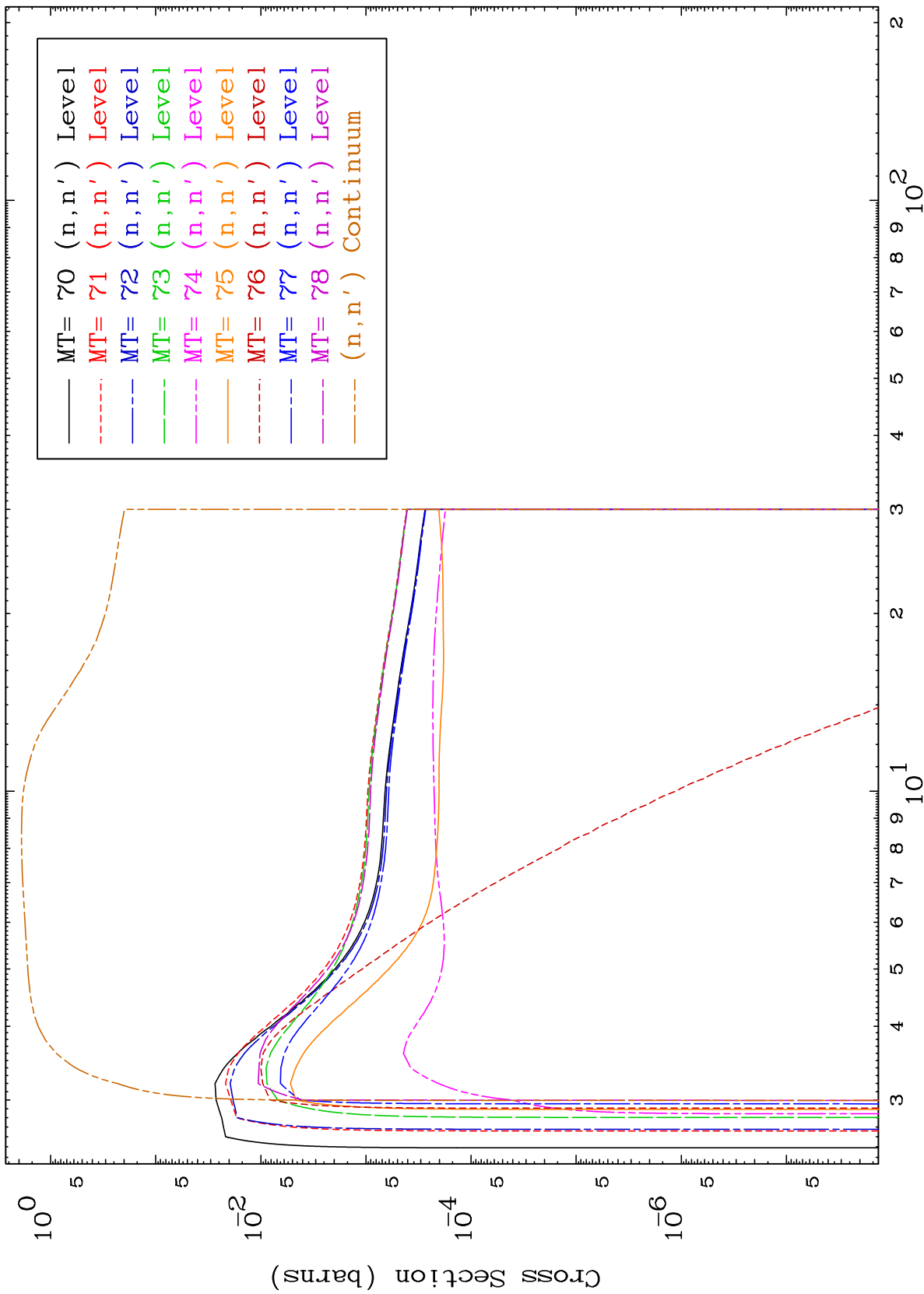
64-Gd-145

MAT 6404

(n,n') Level

64-Gd-145

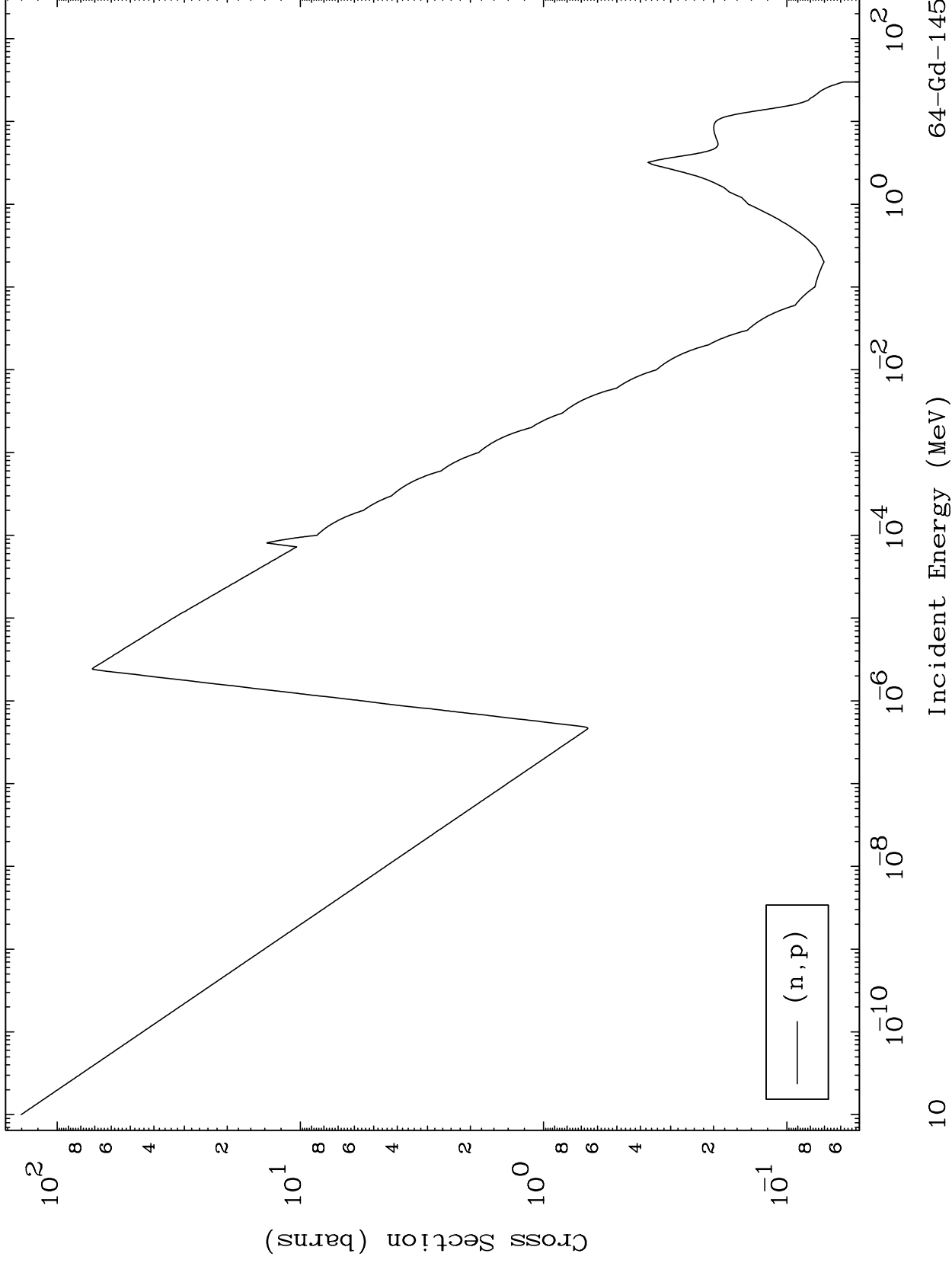
293 Kelvin Cross Sections



MAT 6404

(n,p) Levels  
293 Kelvin Cross Sections

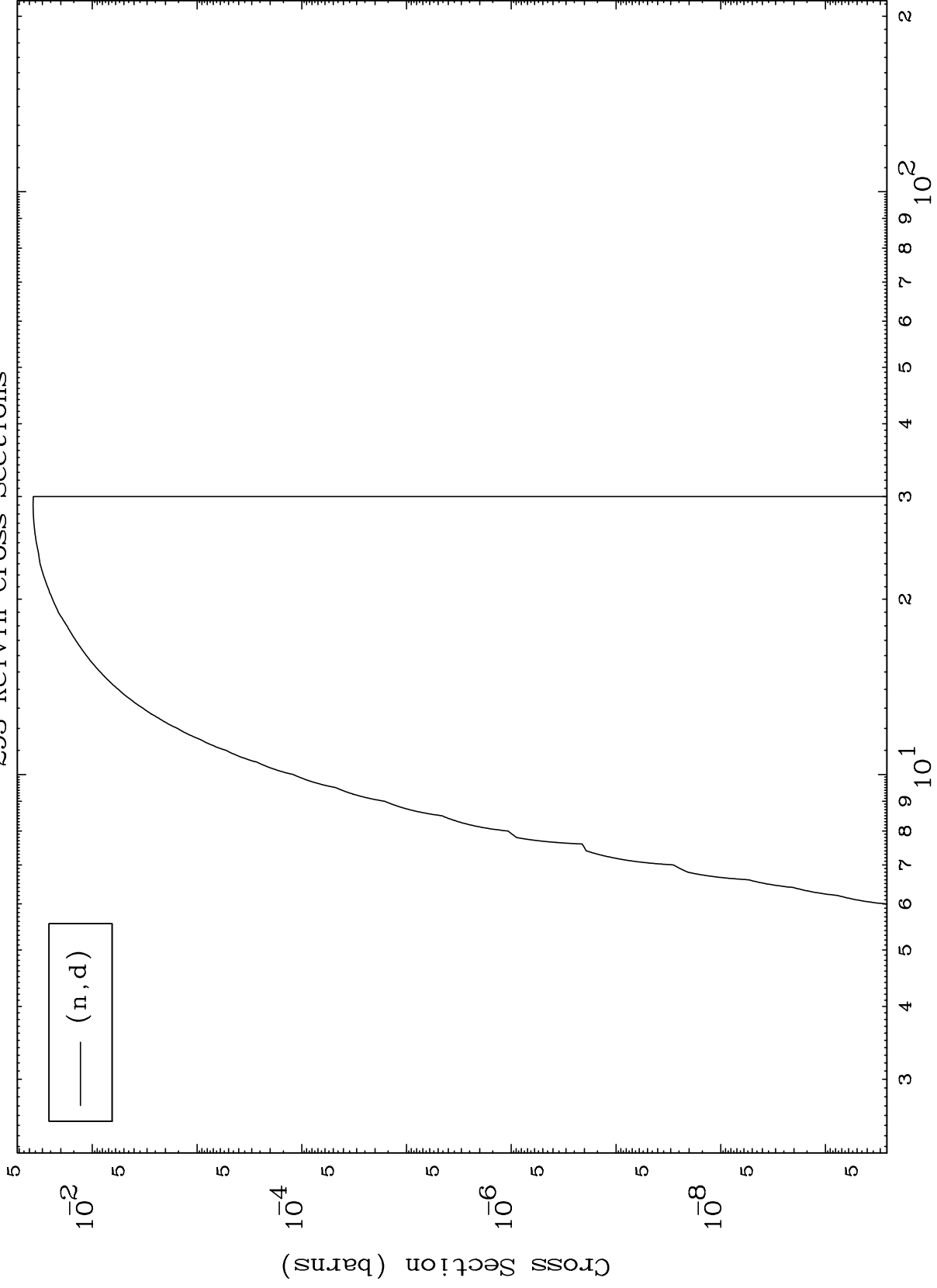
64-Gd-145



MAT 6404

(n,d) Levels  
293 Kelvin Cross Sections

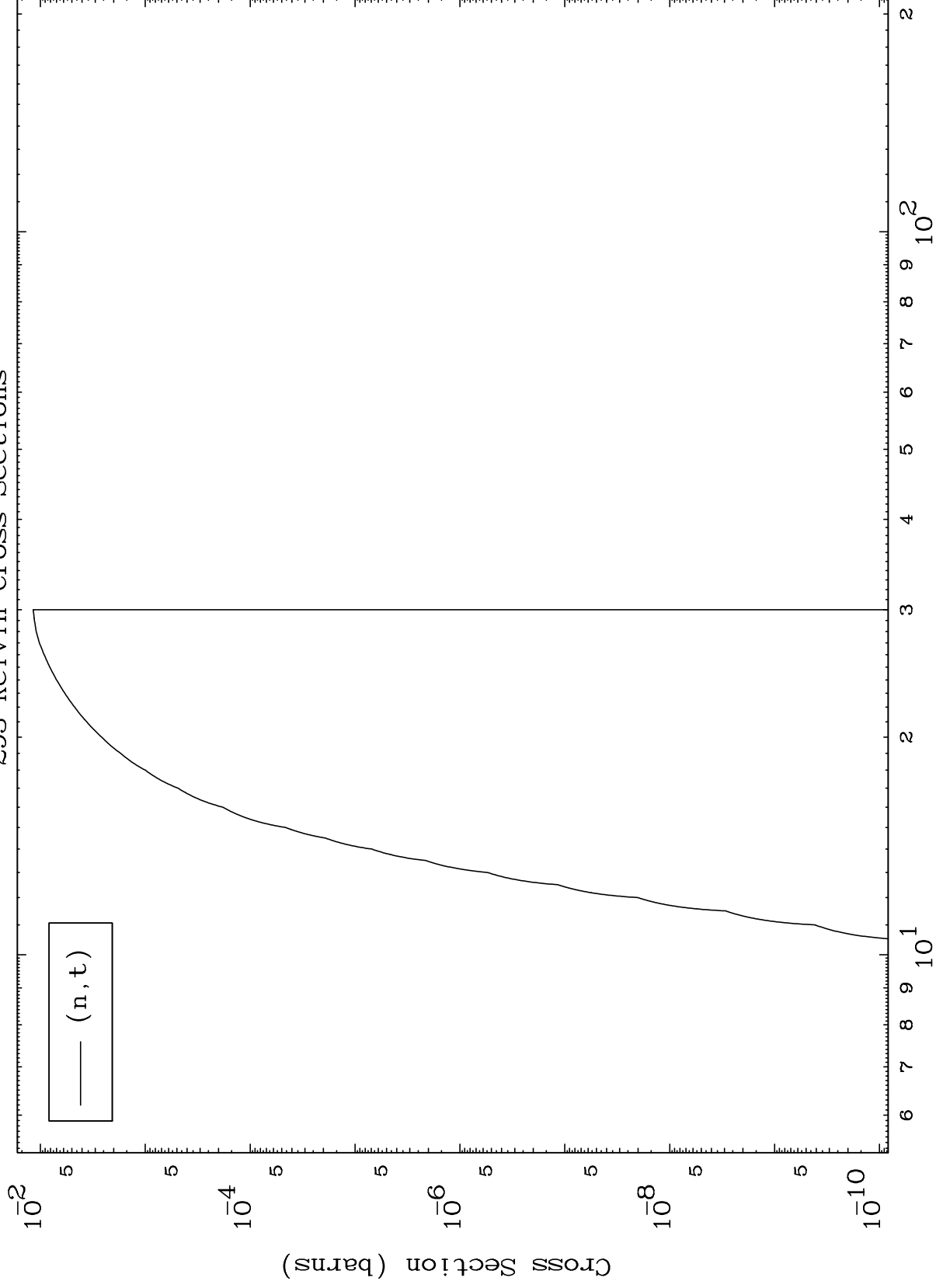
64-Gd-145



MAT 6404

(n, t) Levels  
293 Kelvin Cross Sections

64-Gd-145



12

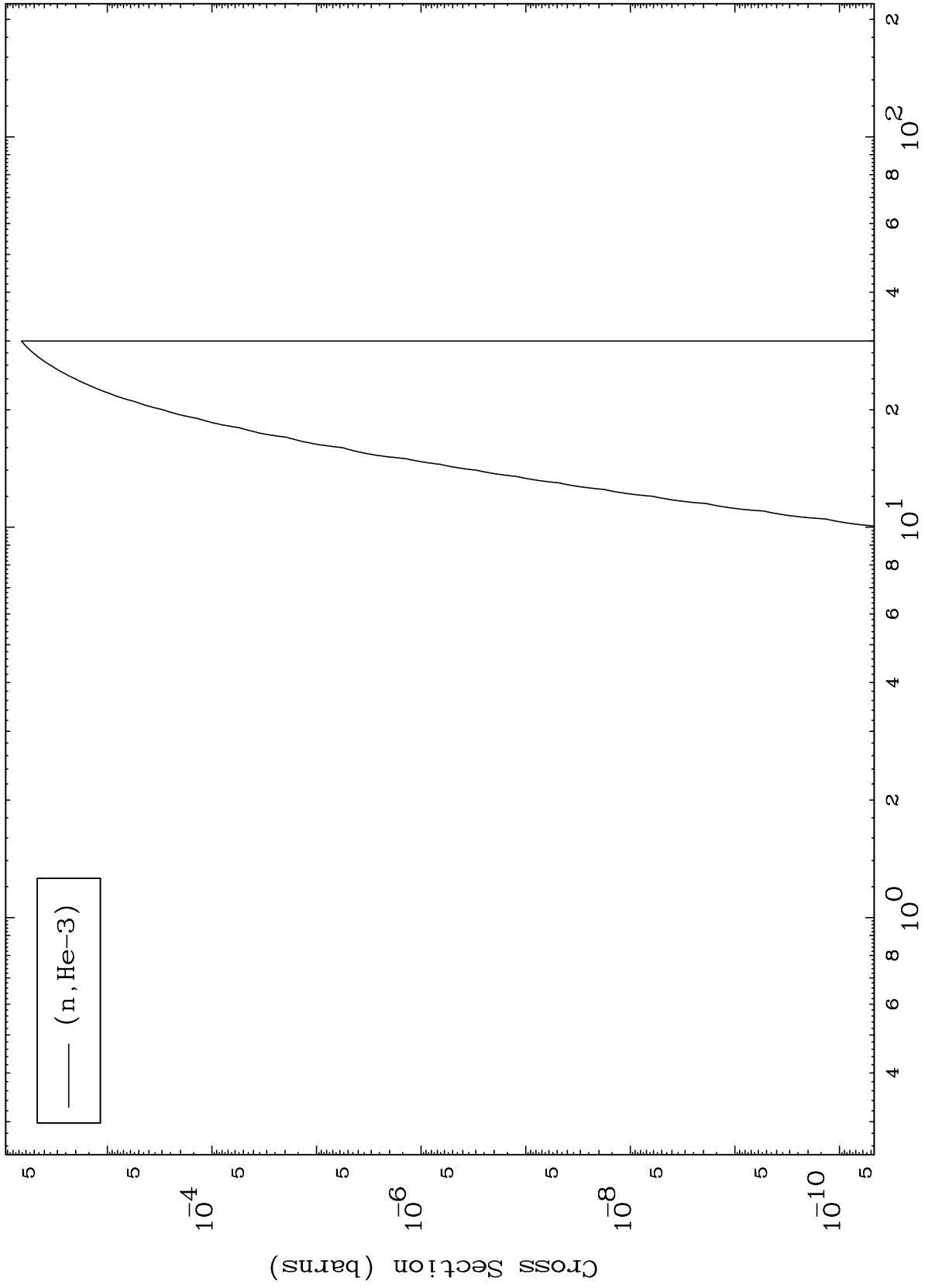
Incident Energy (MeV)

64-Gd-145

MAT 6404

(n,He3) Levels  
293 Kelvin Cross Sections

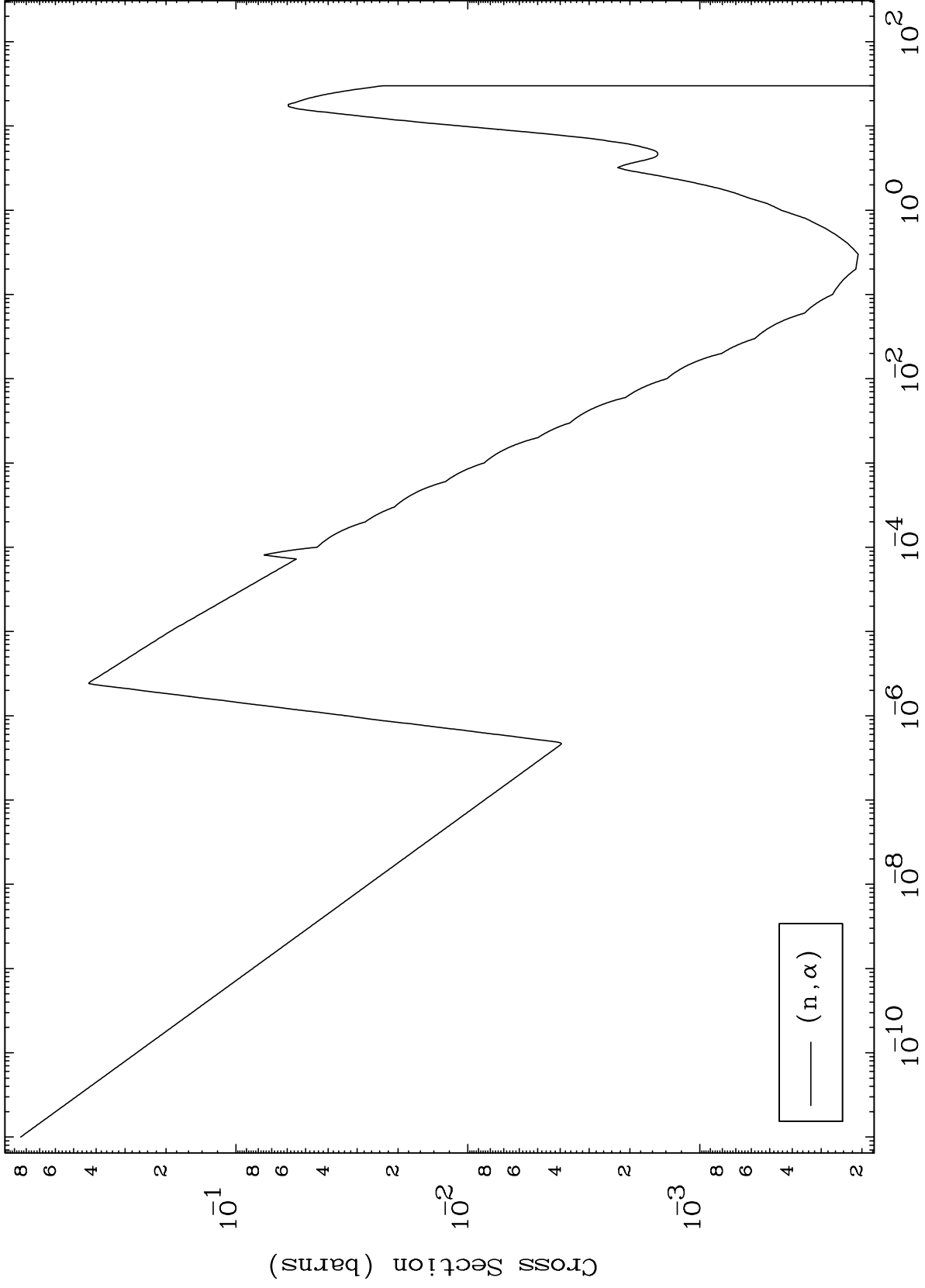
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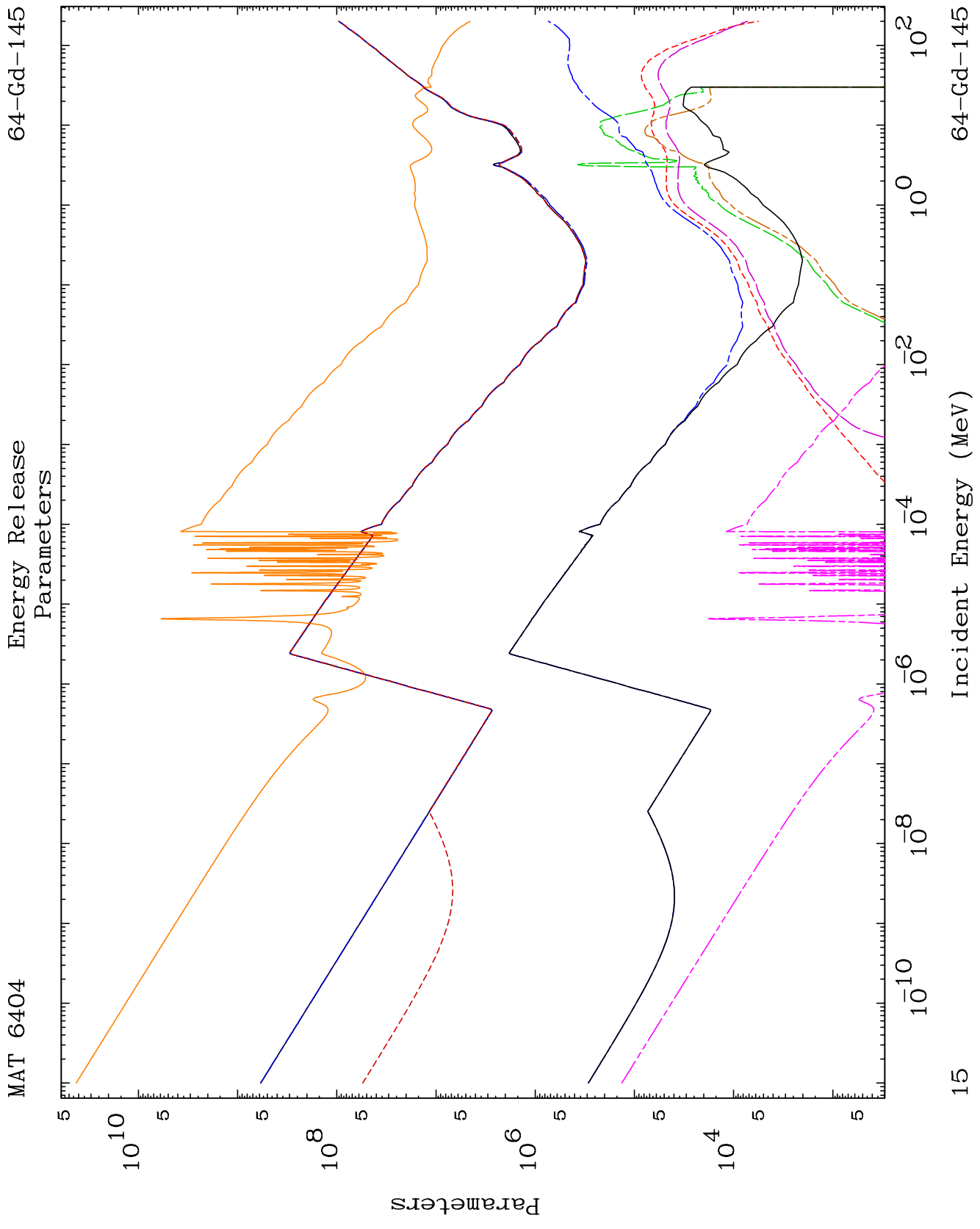
MAT 6404

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

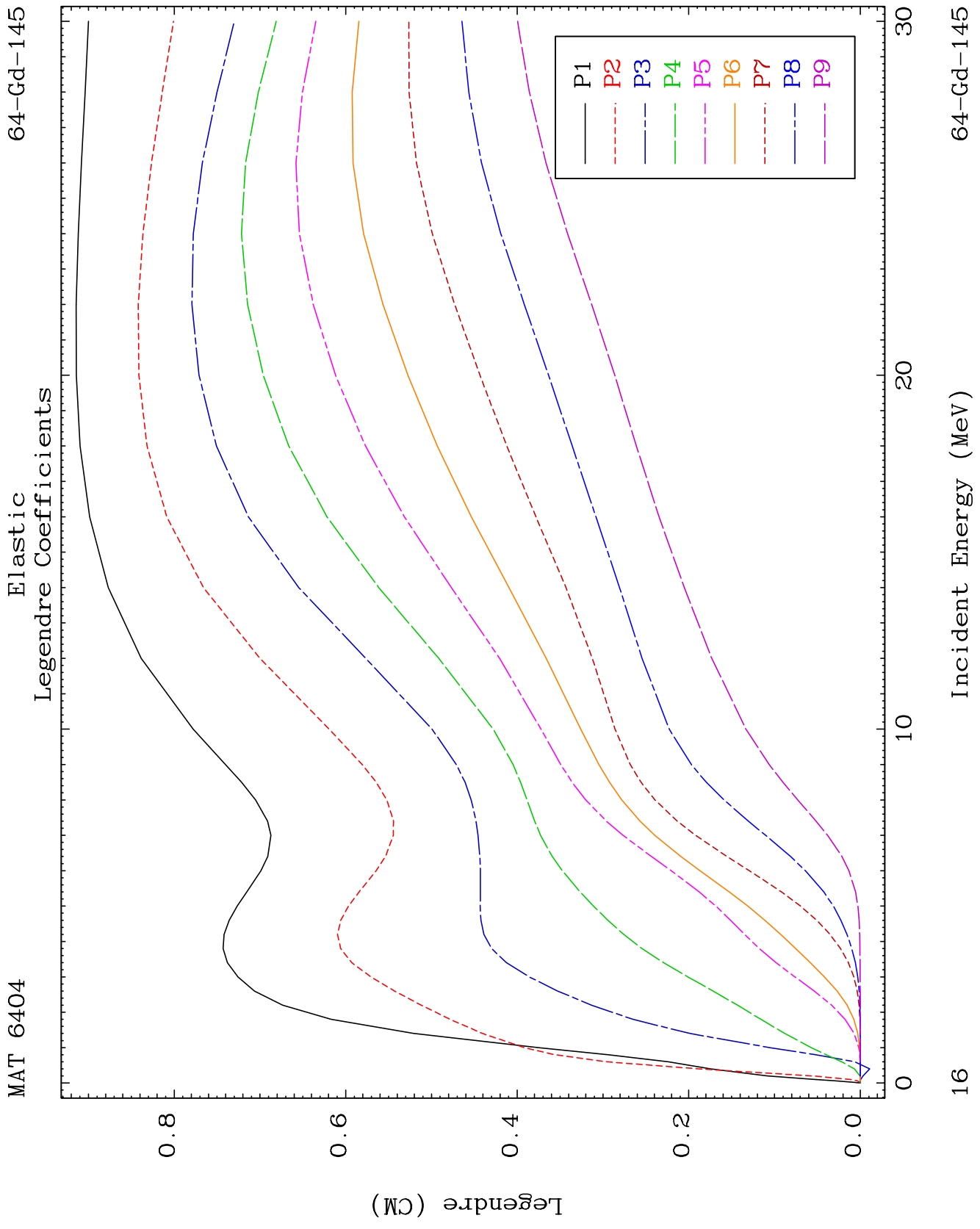
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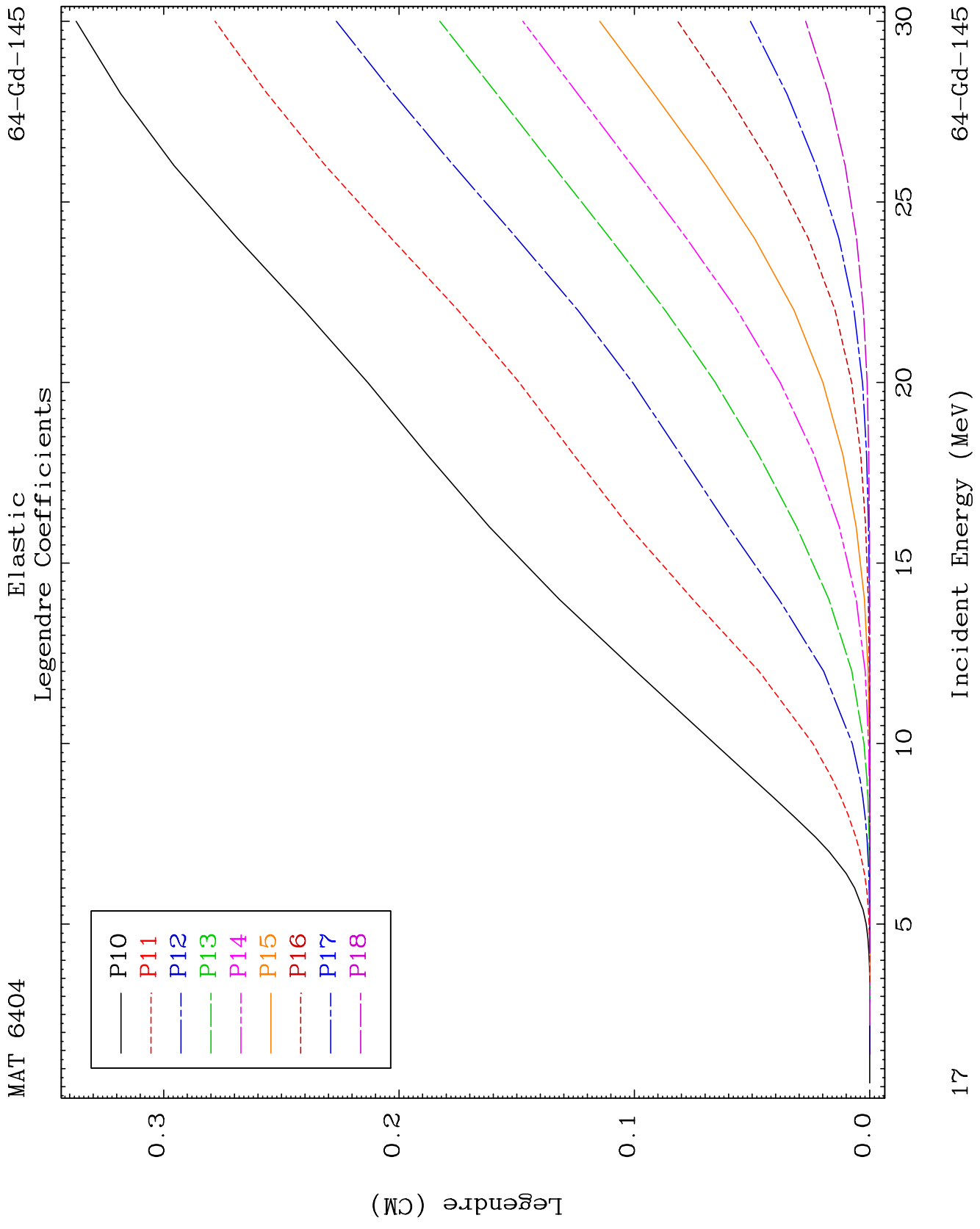


— Dpa disappearance (mt102 -120)





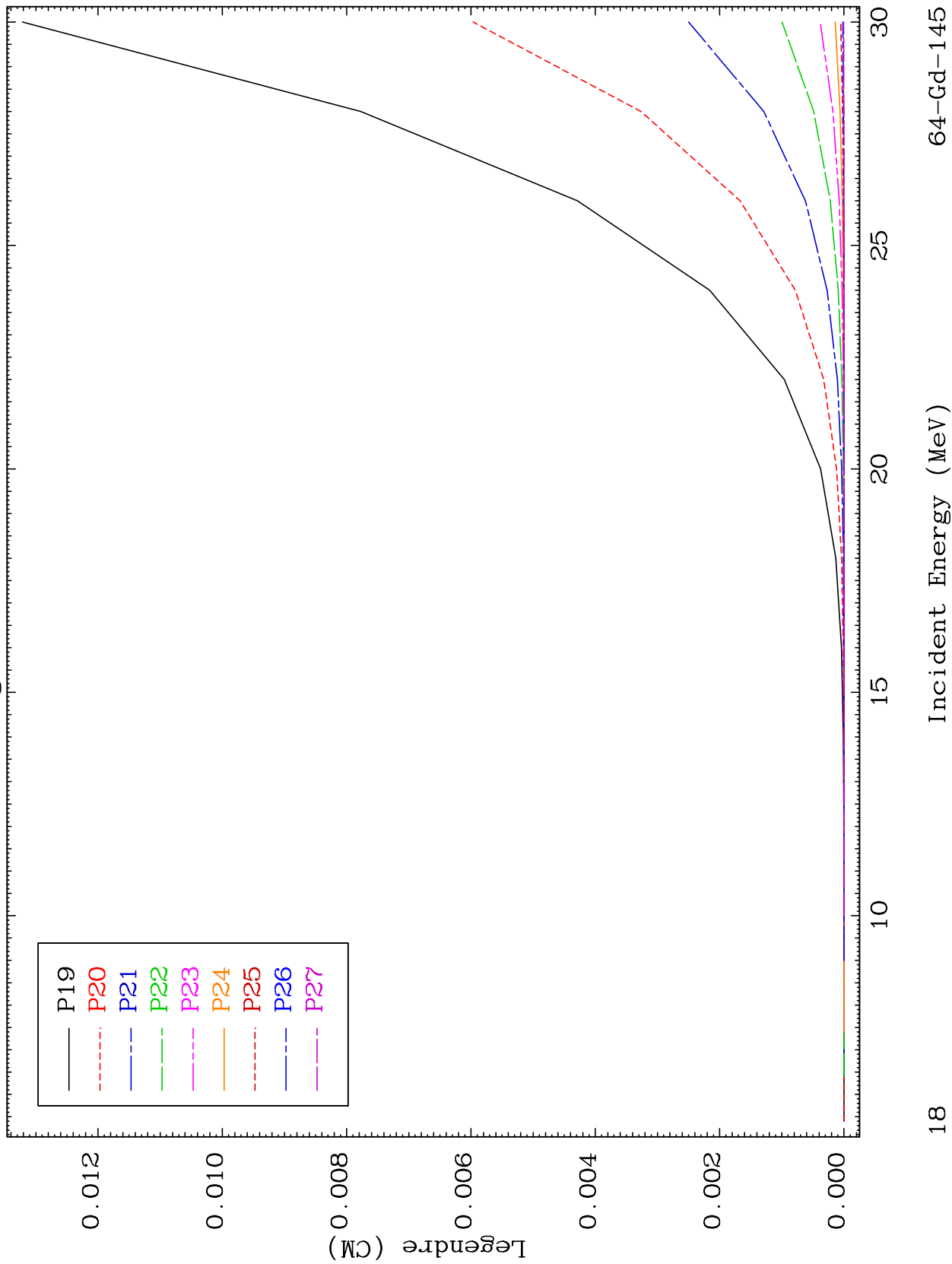




MAT 6404

### Elastic Legendre Coefficients

64-Gd-145



18

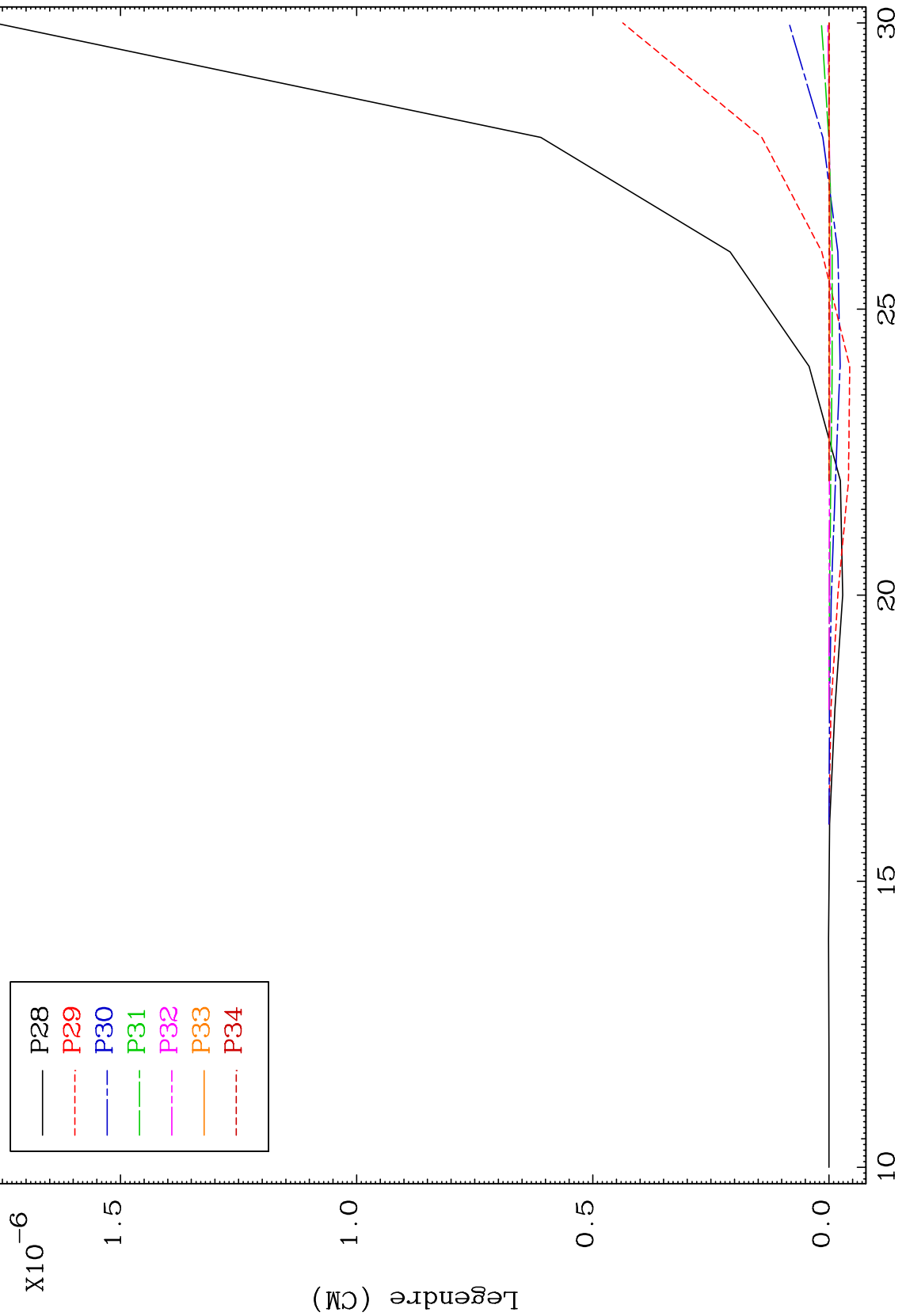
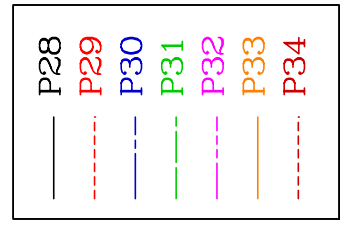
Incident Energy (MeV)

64-Gd-145

MAT 6404

Elastic Legendre Coefficients

64-Gd-145



19

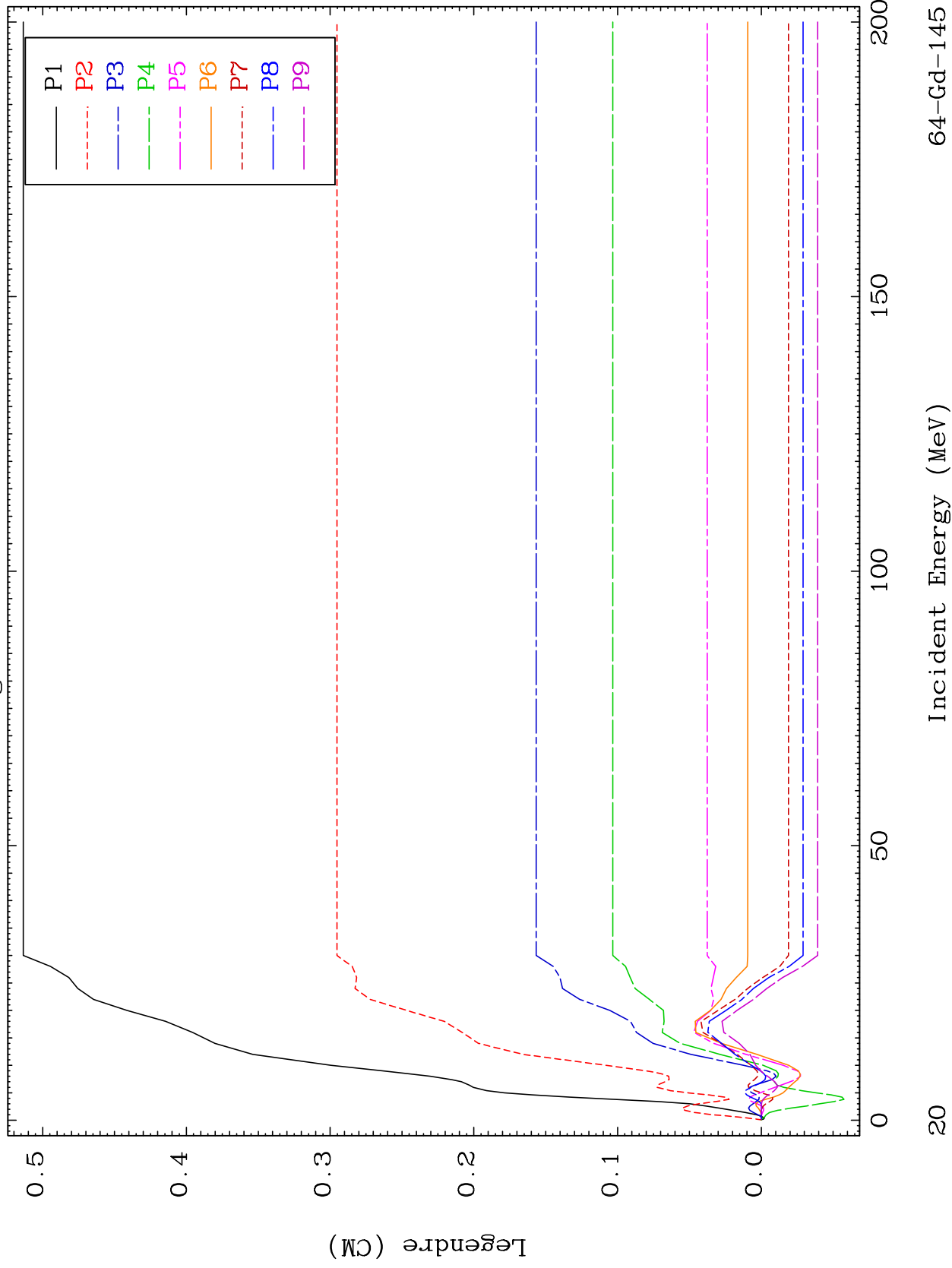
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

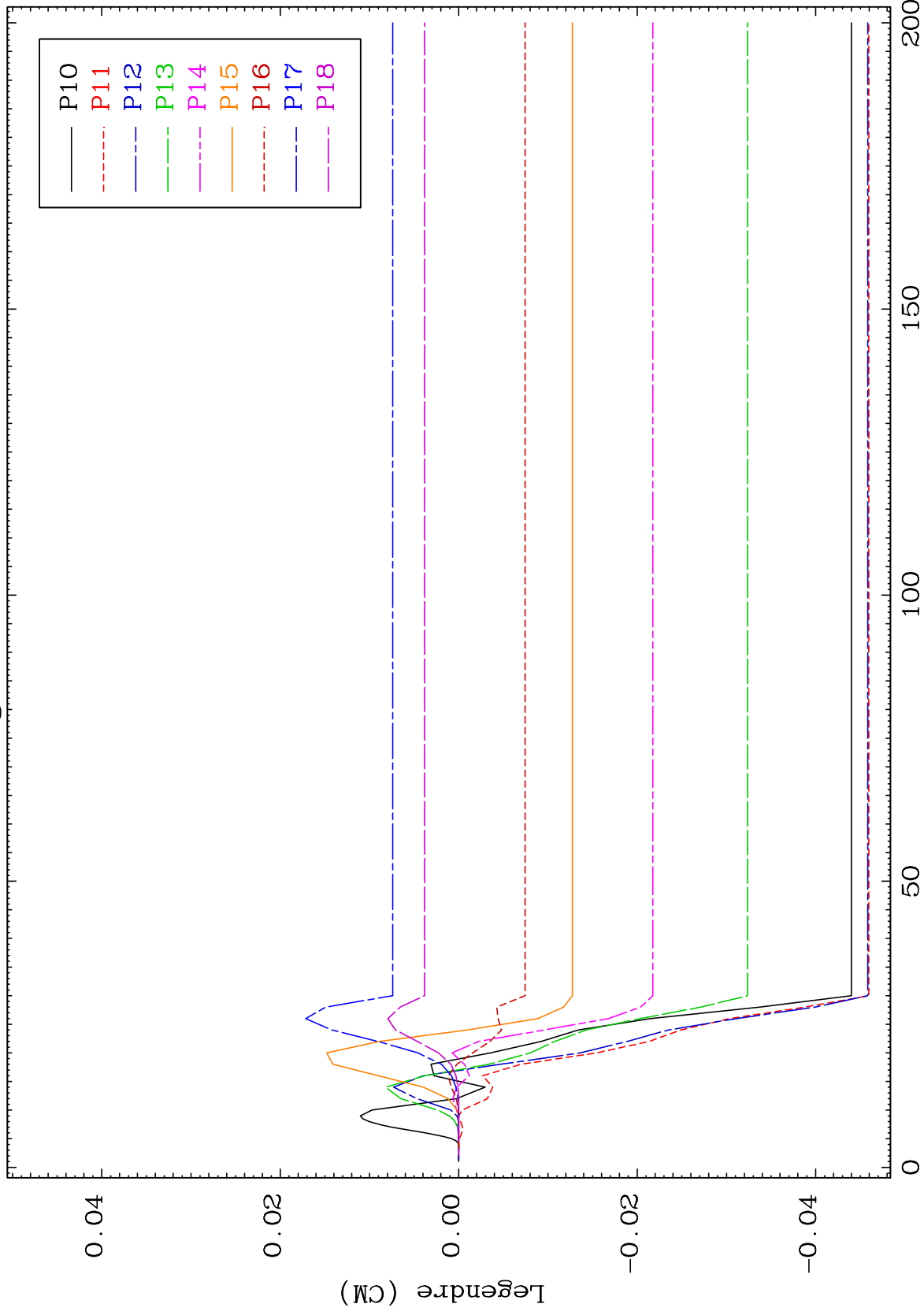
64-Gd-145



MAT 6404

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

64-Gd-145



21

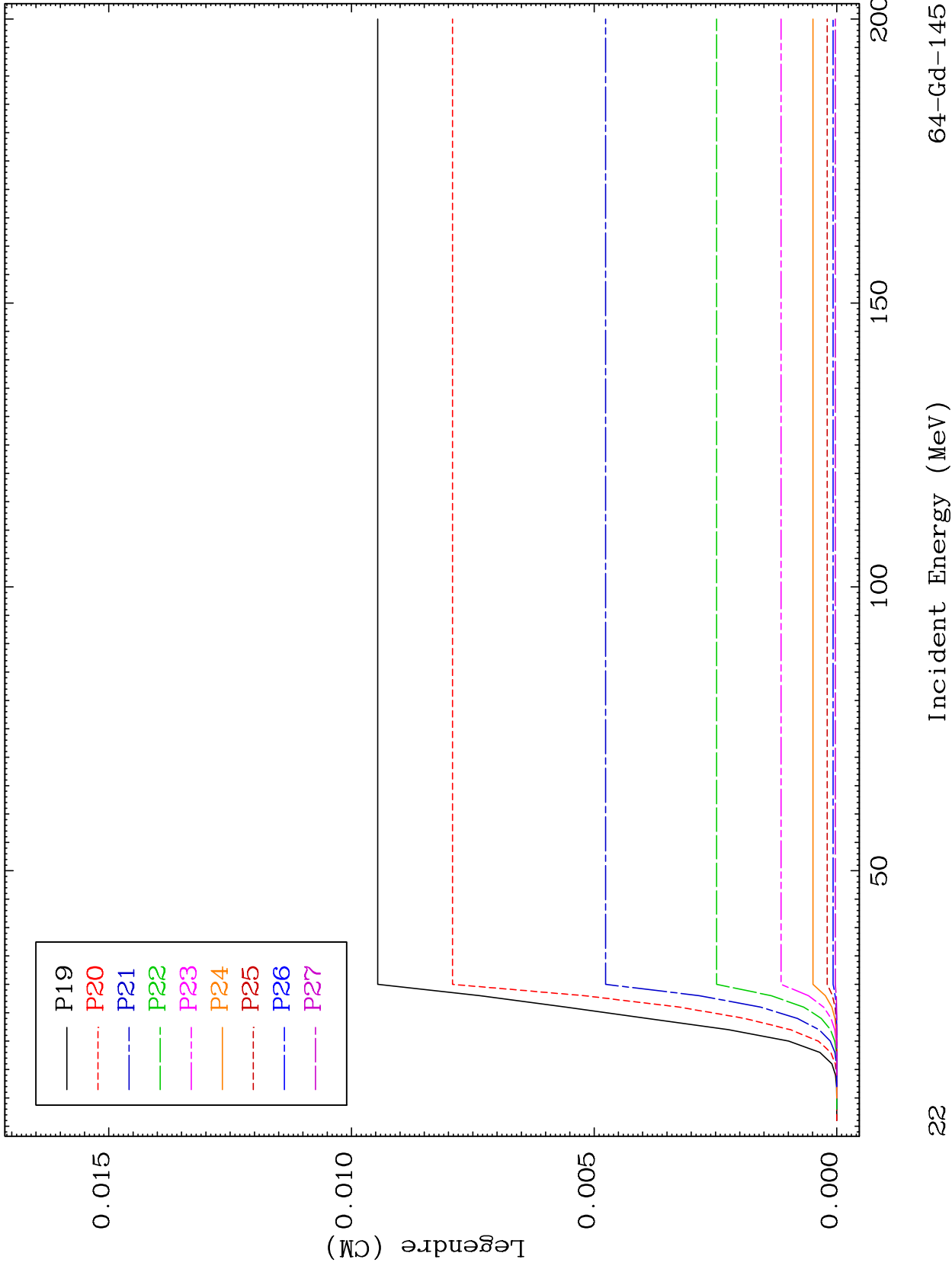
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

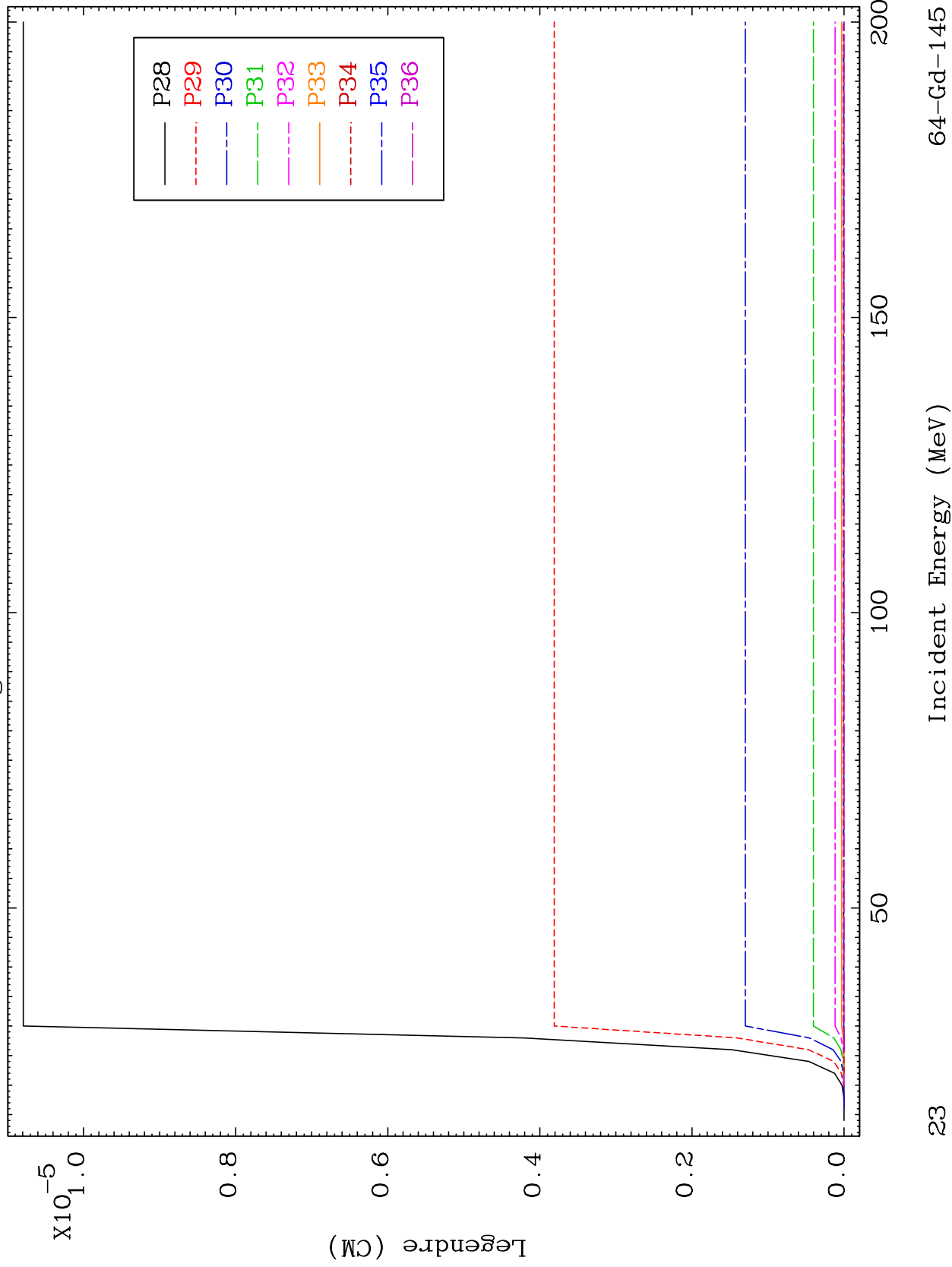
64-Gd-145



MAT 6404

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

64-Gd-145

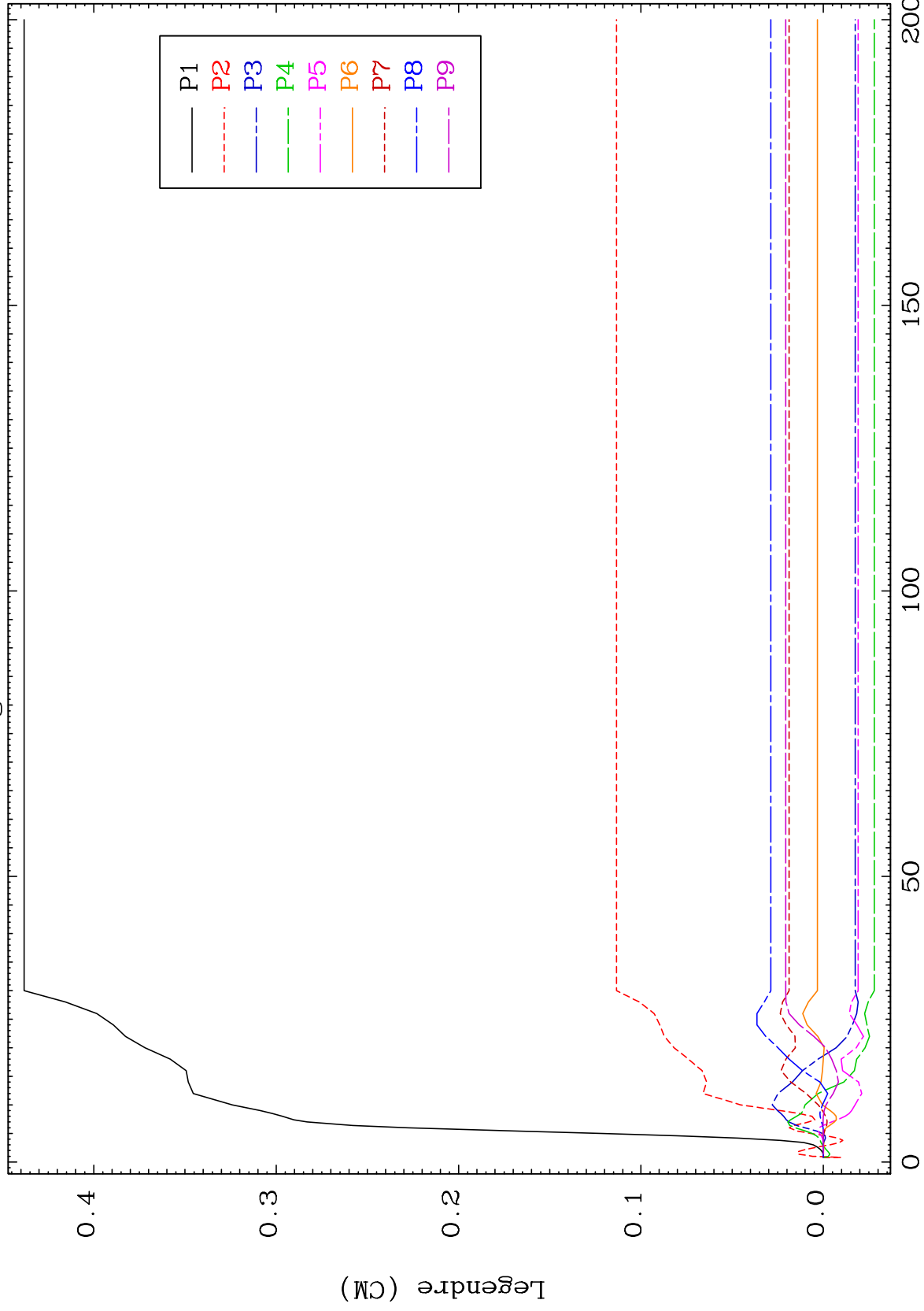




MAT 6404

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

64-Gd-145



24

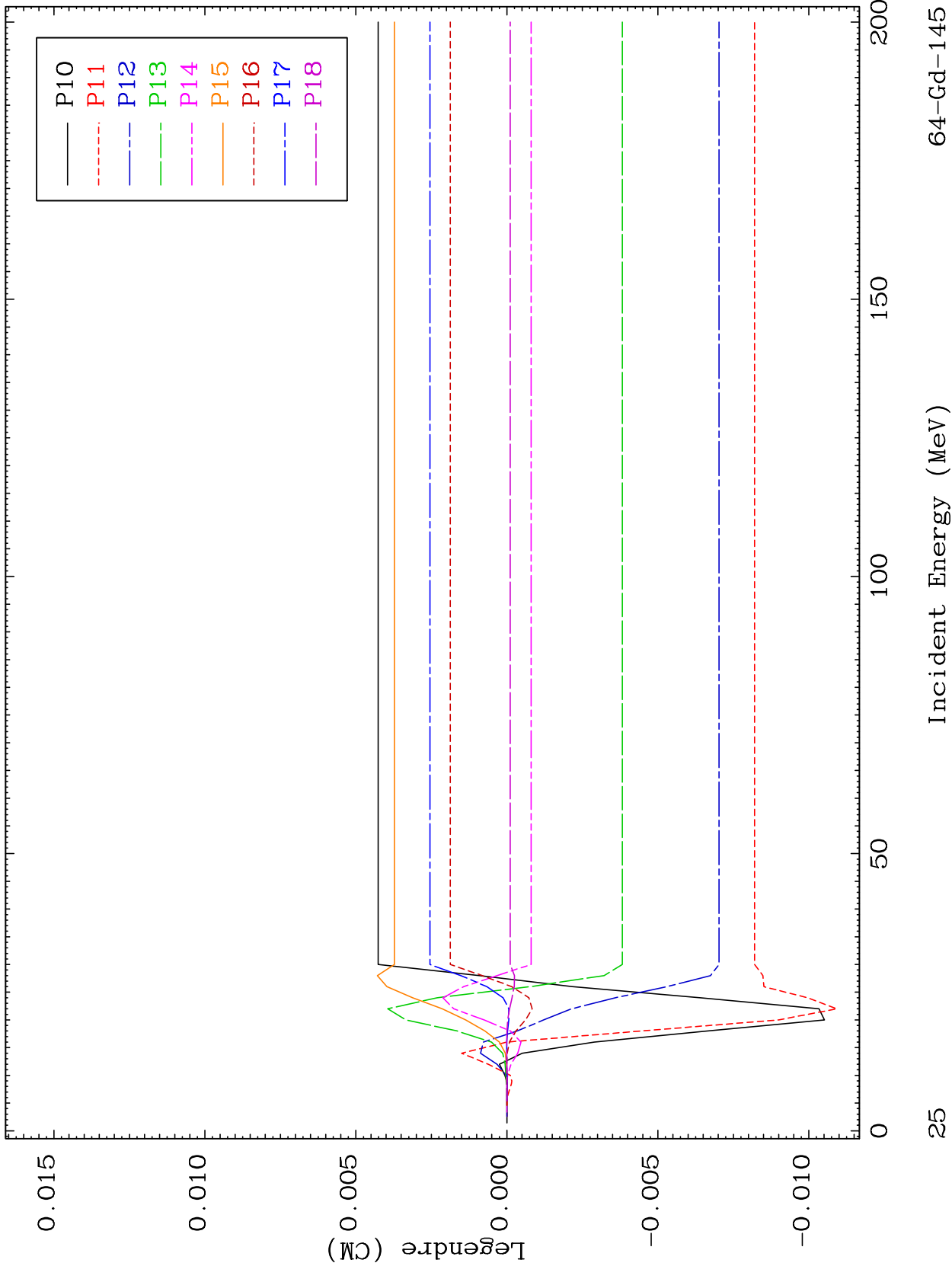
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



64-Gd-145

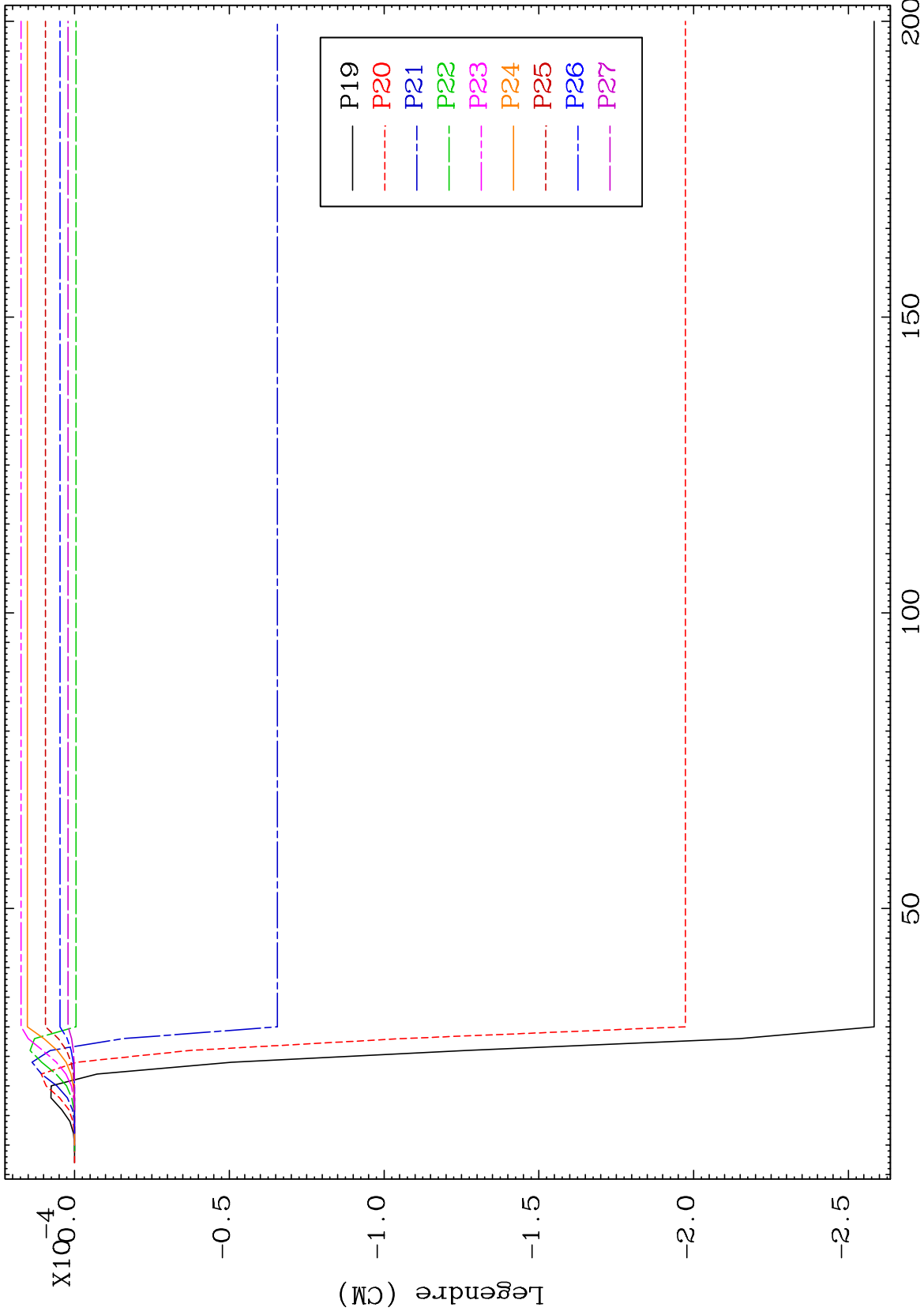
Incident Energy (MeV)

25

MAT 6404

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

64-Gd-145



26

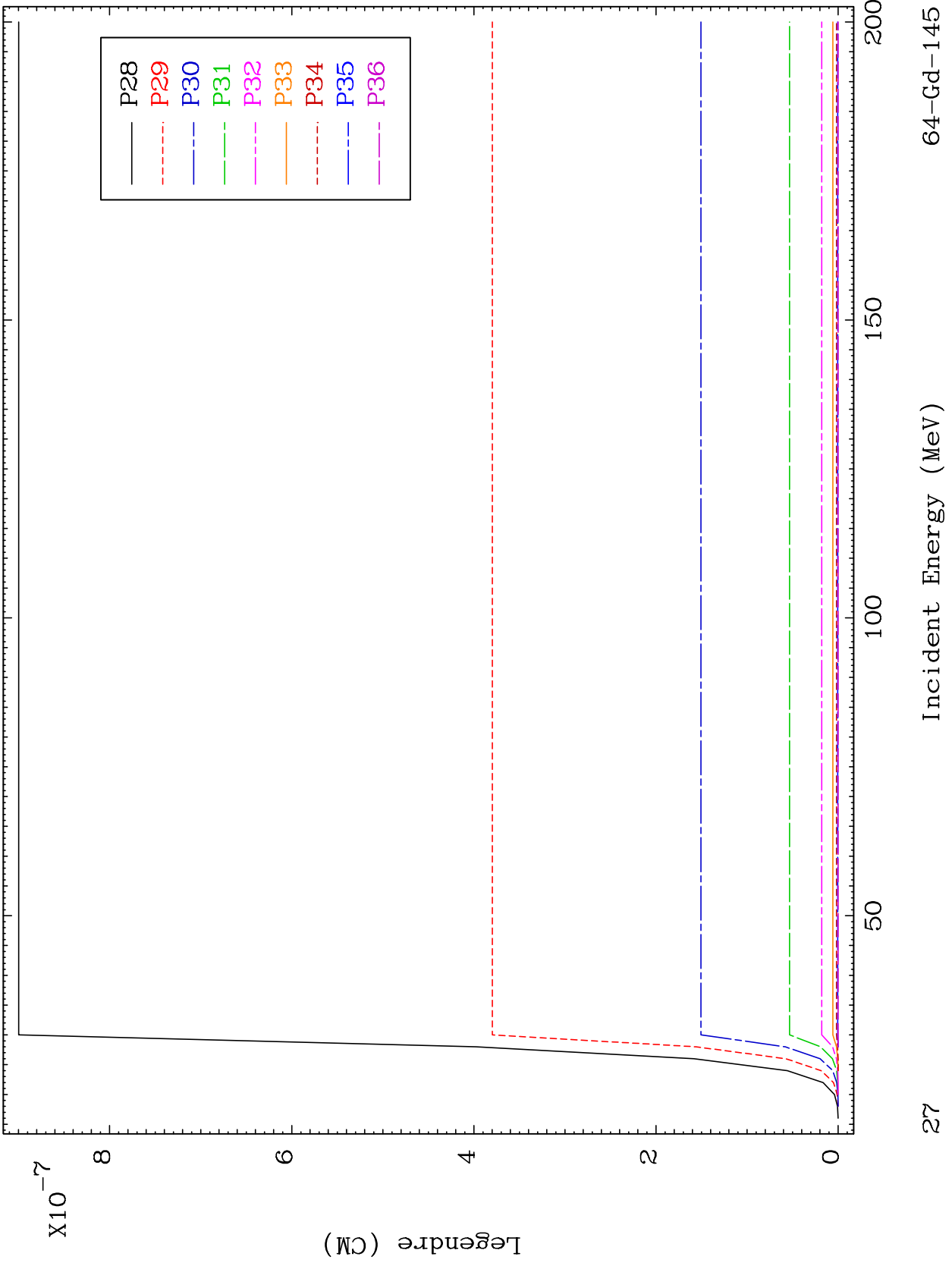
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



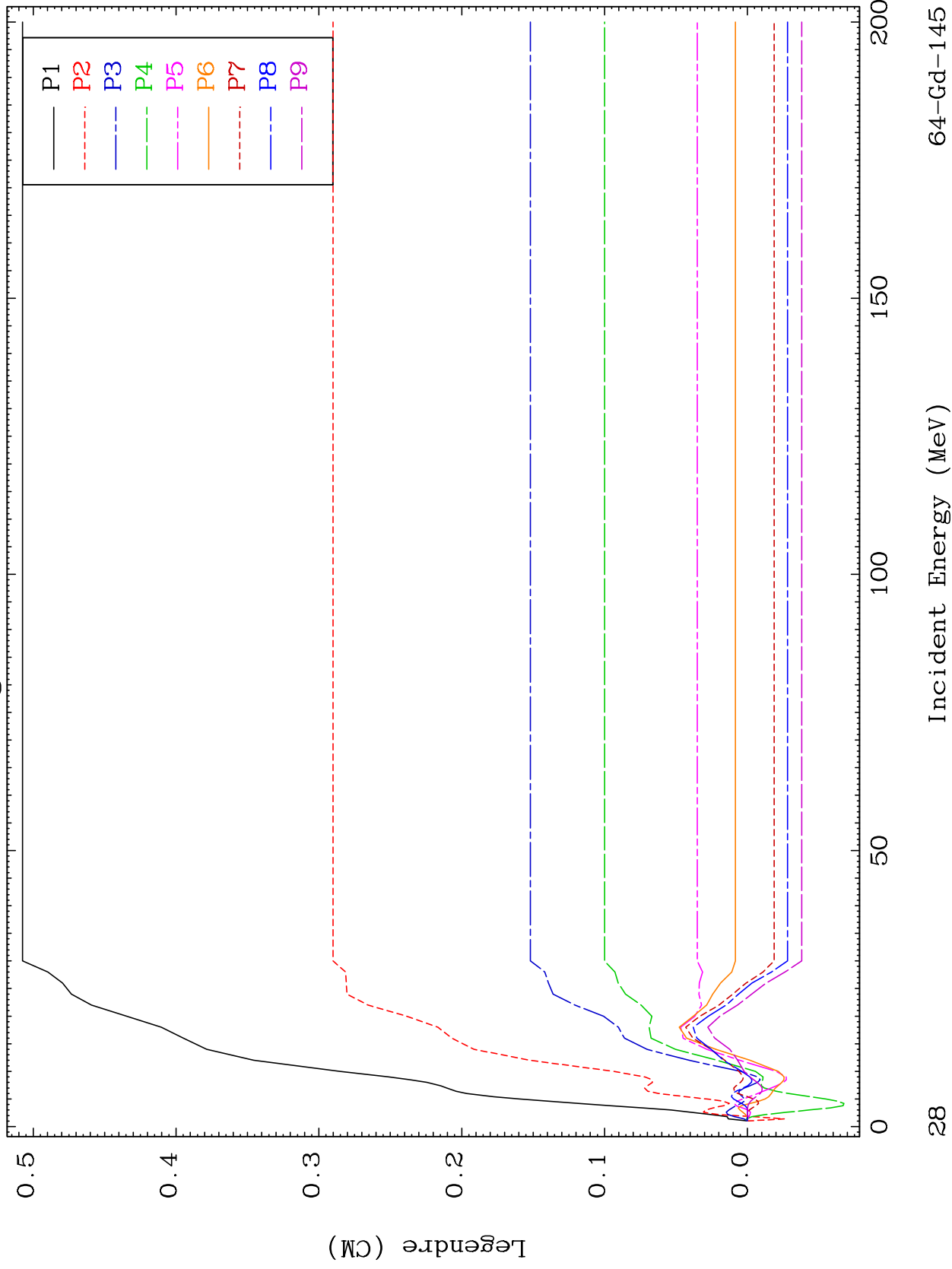
27

64-Gd-145

MAT 6404

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

64-Gd-145



28

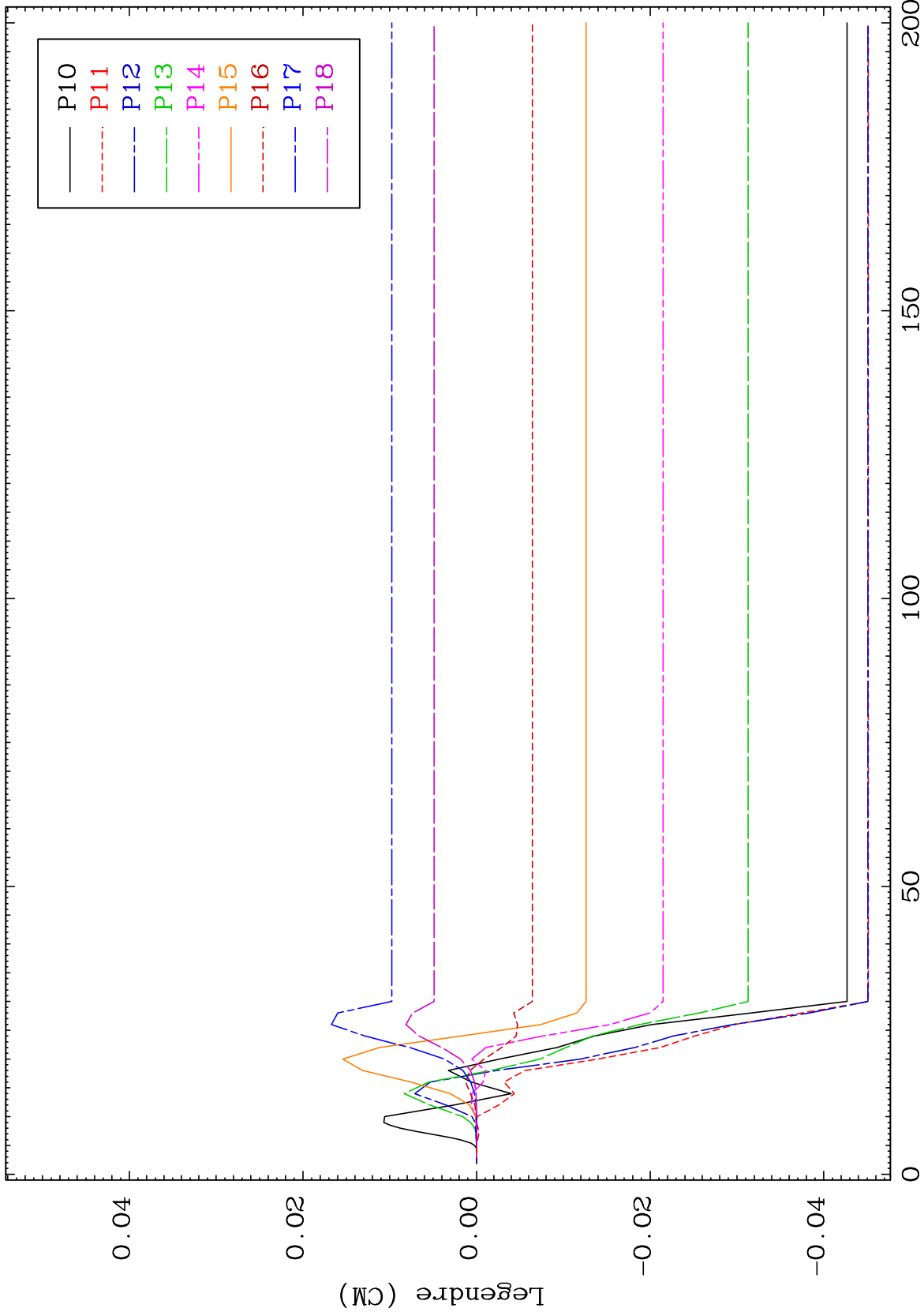
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



29

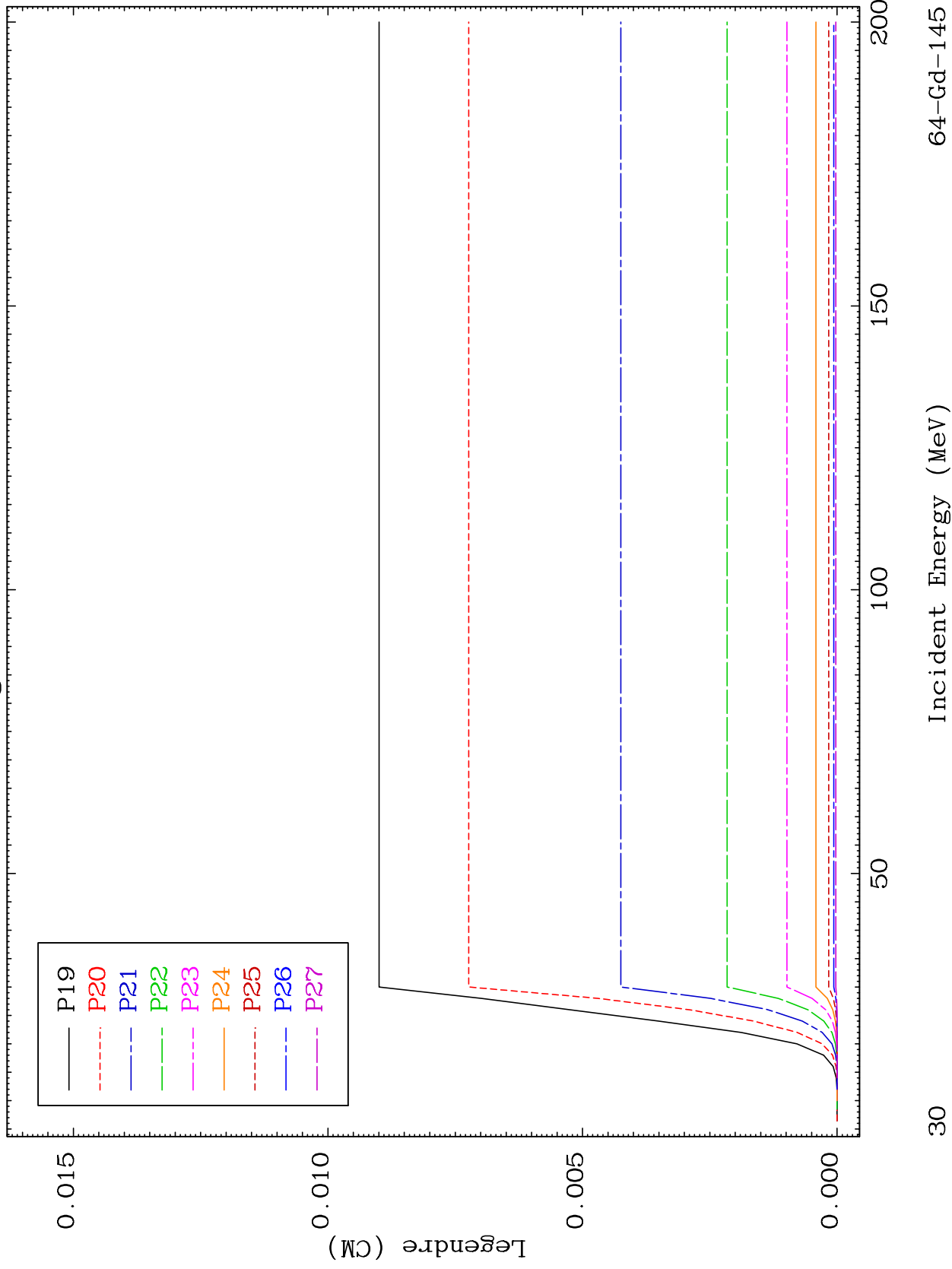
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



30

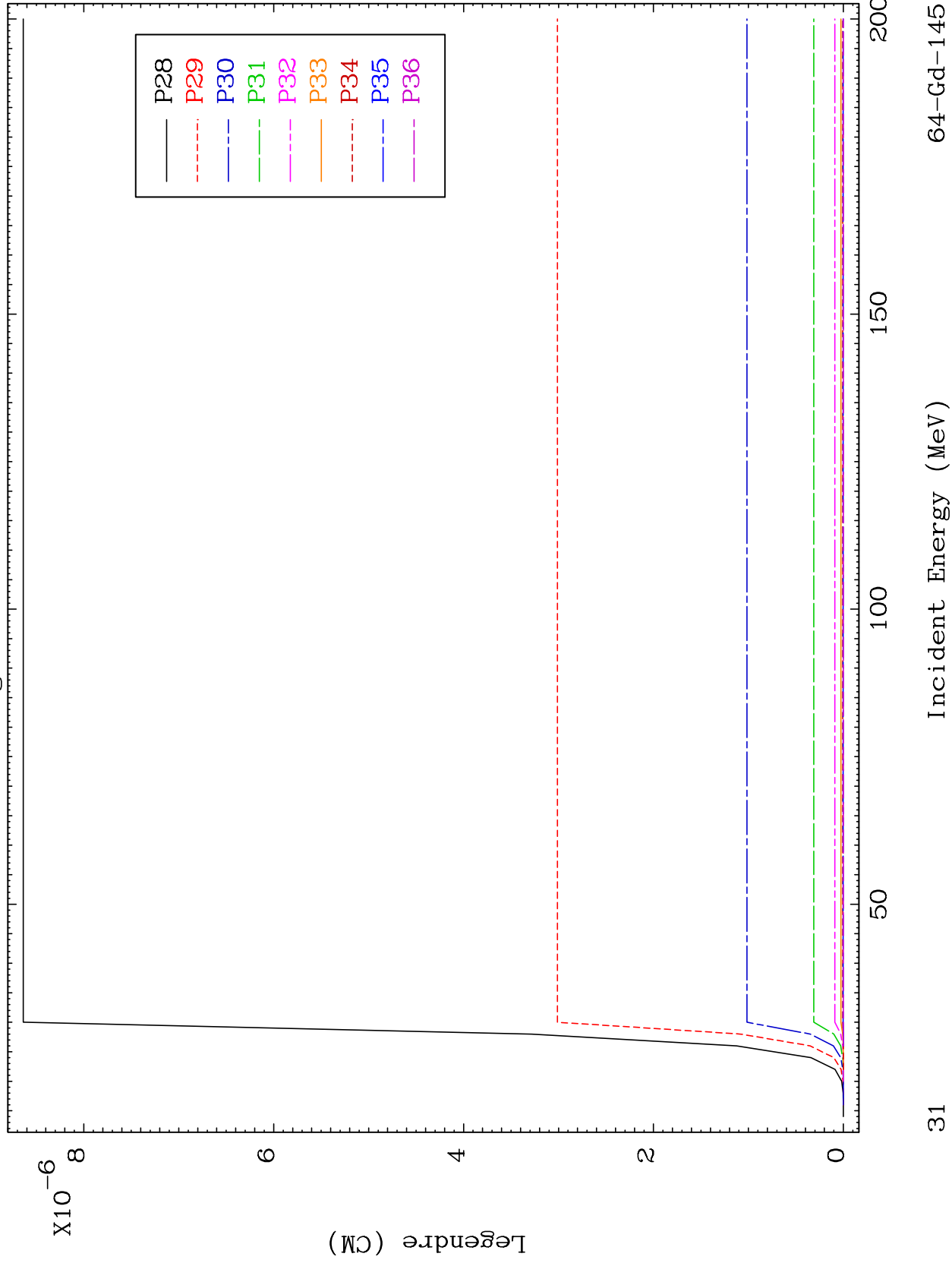
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



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64-Gd-145

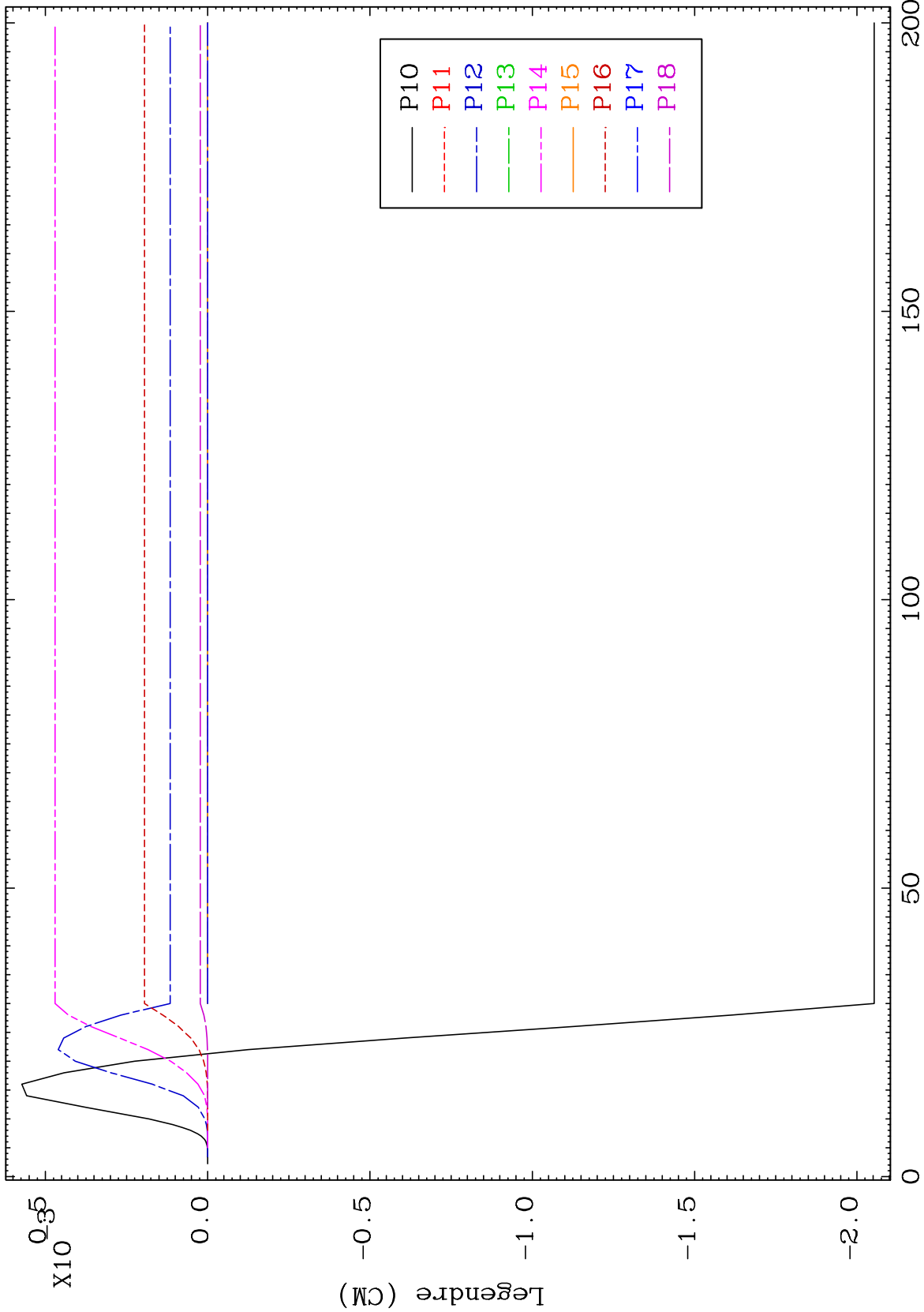


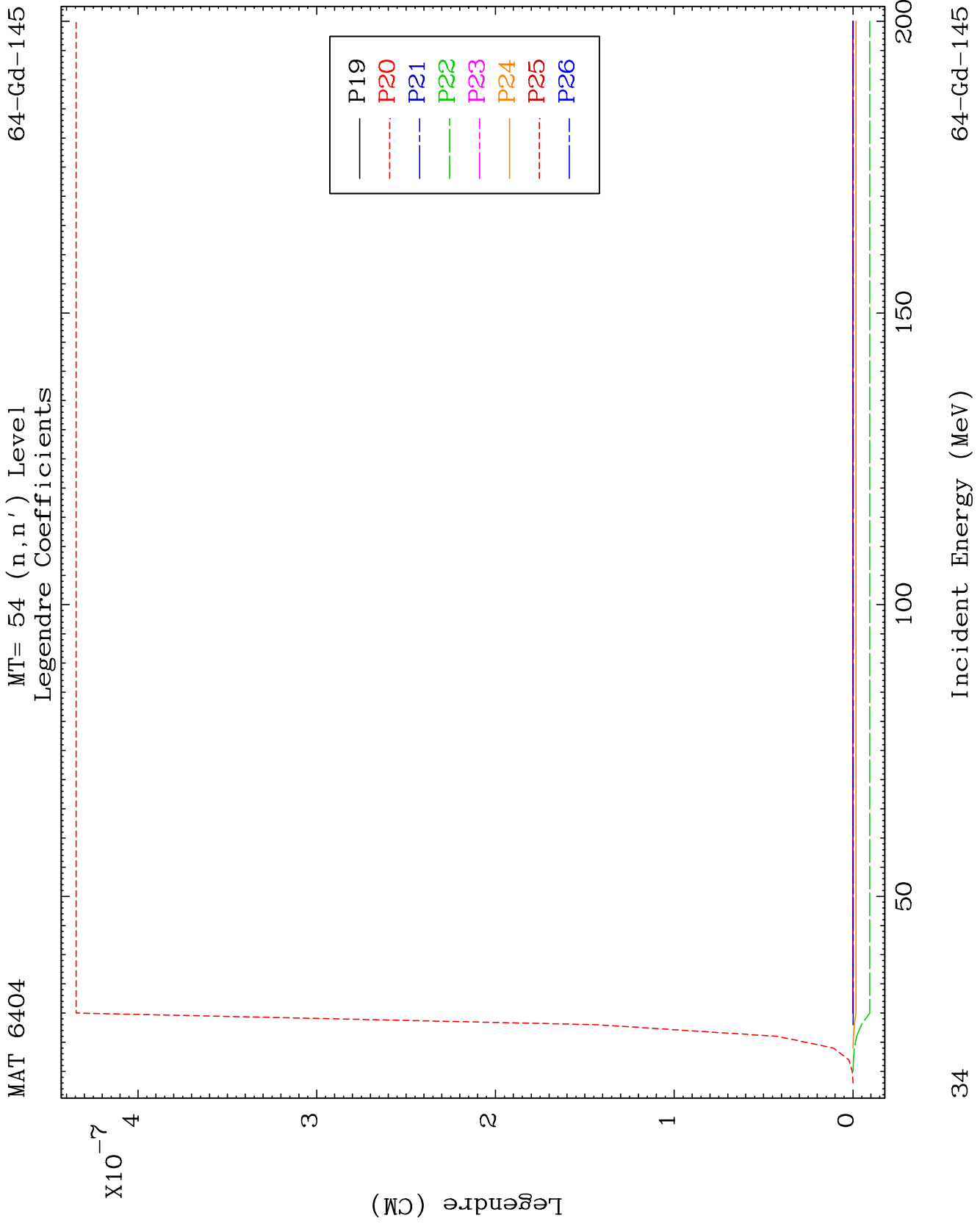


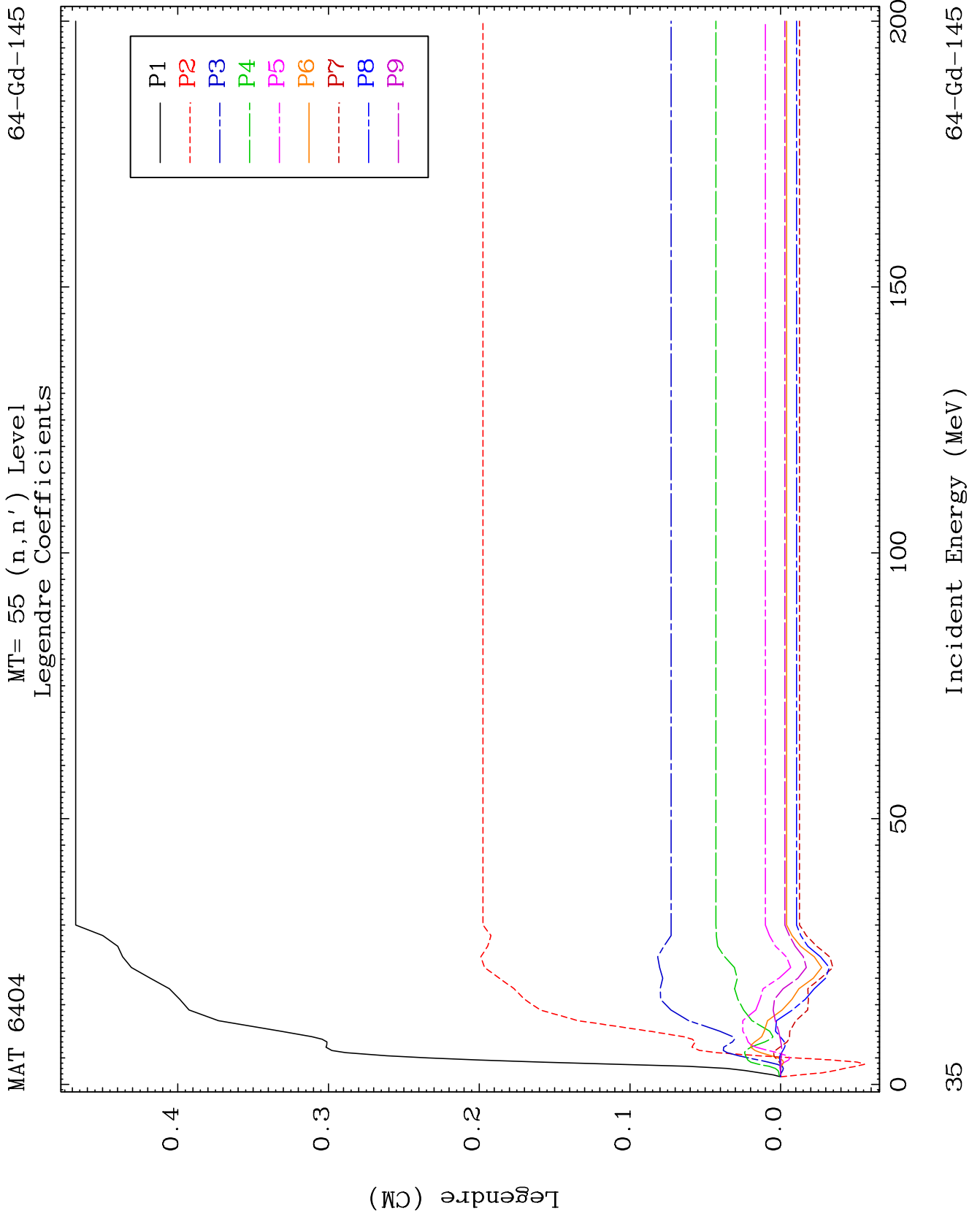
MAT 6404

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

64-Gd-145



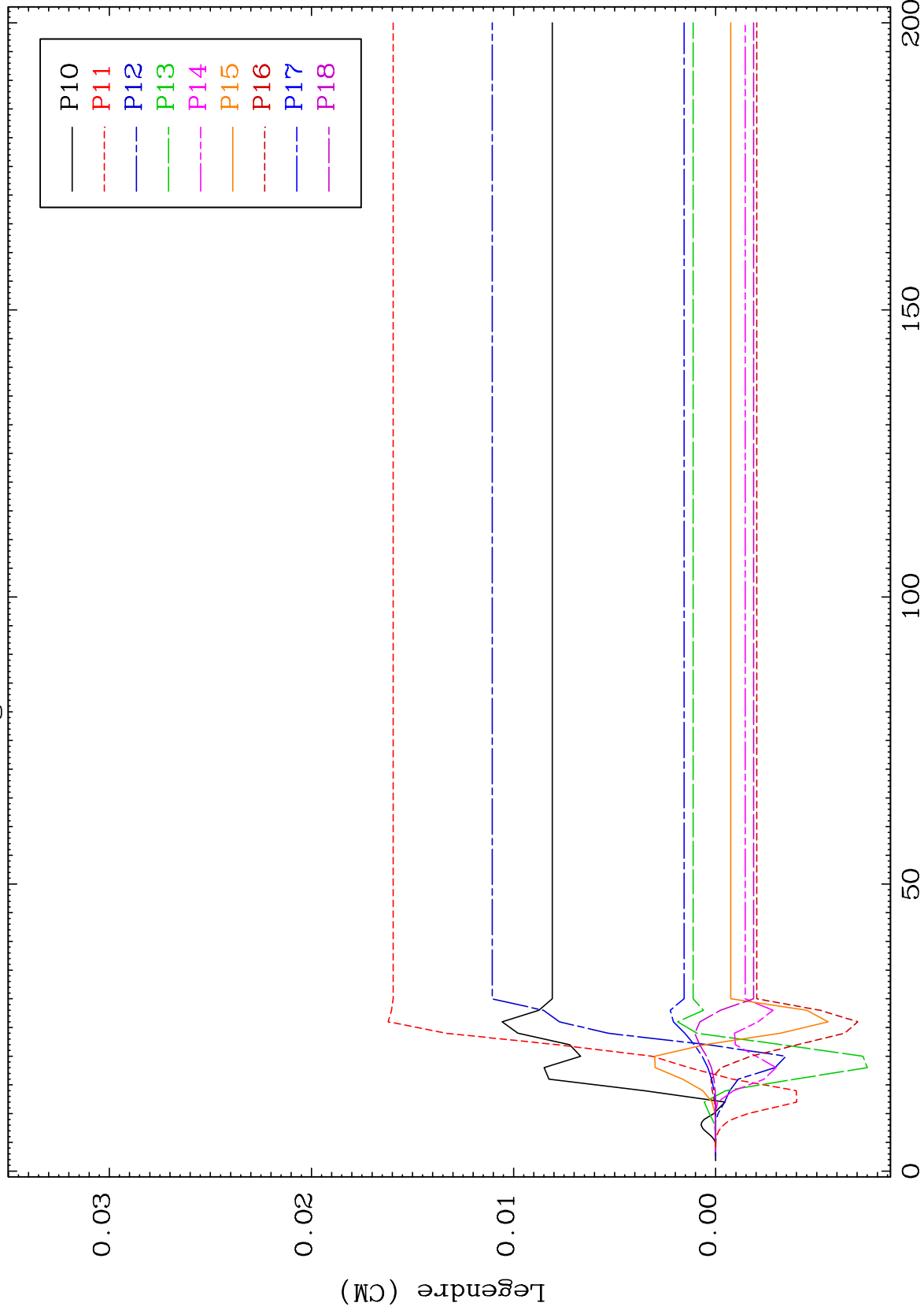




MAT 6404

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

64-Gd-145



64-Gd-145

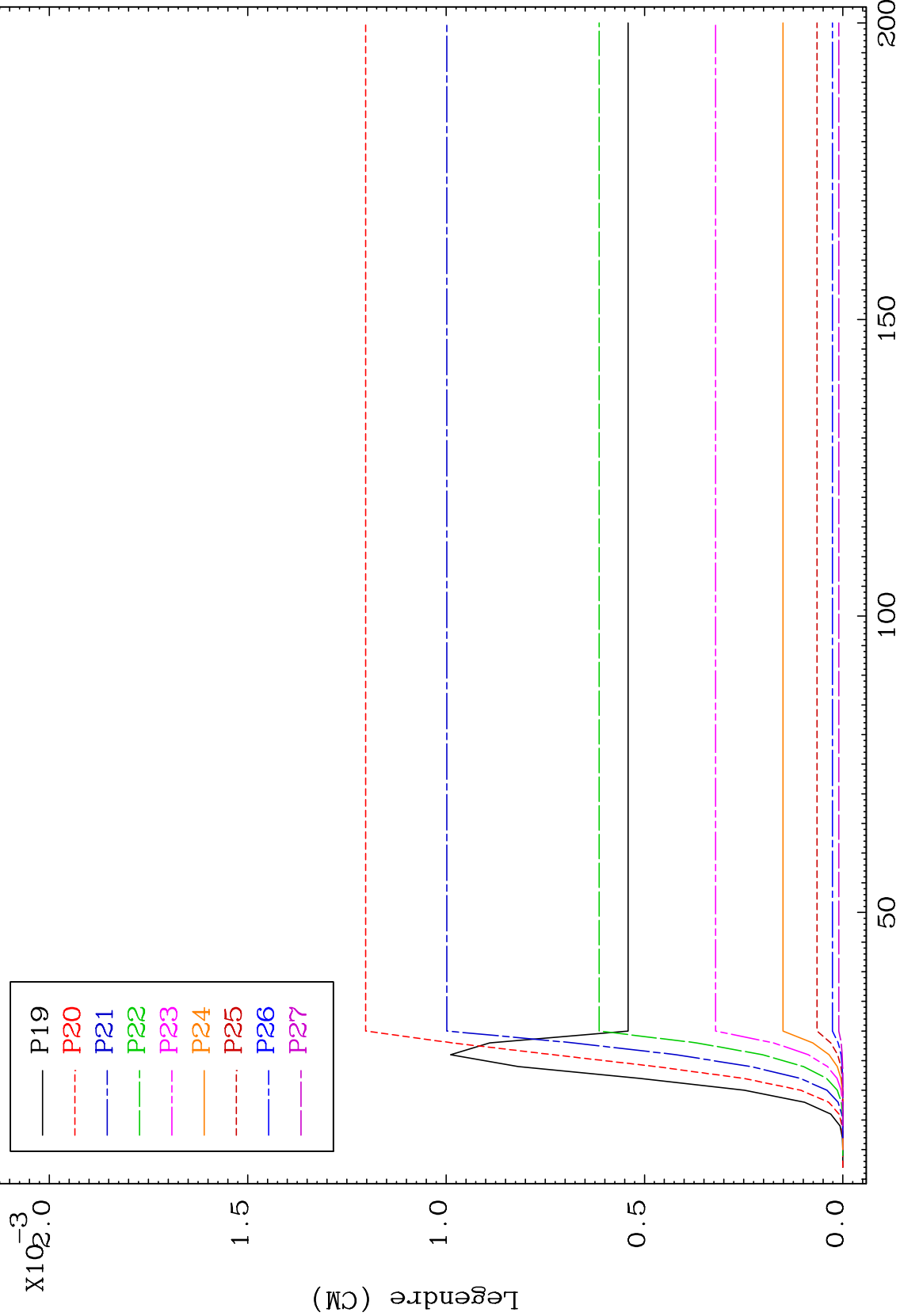
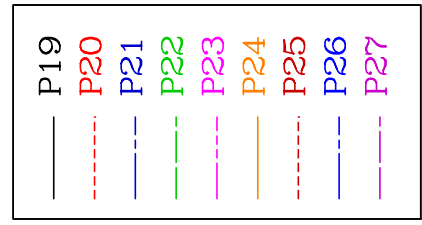
Incident Energy (MeV)

36

MAT 6404

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

64-Gd-145



37

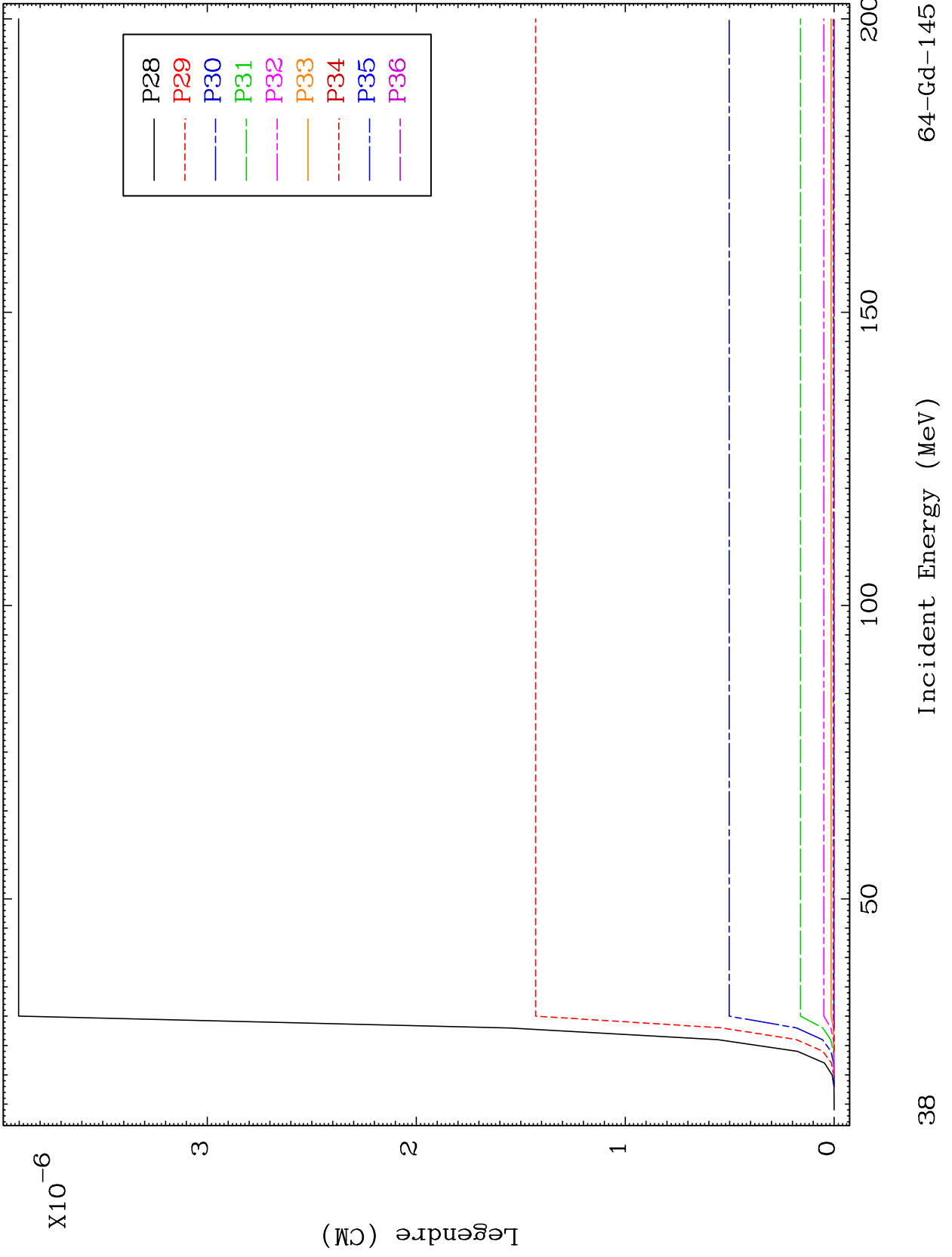
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



38

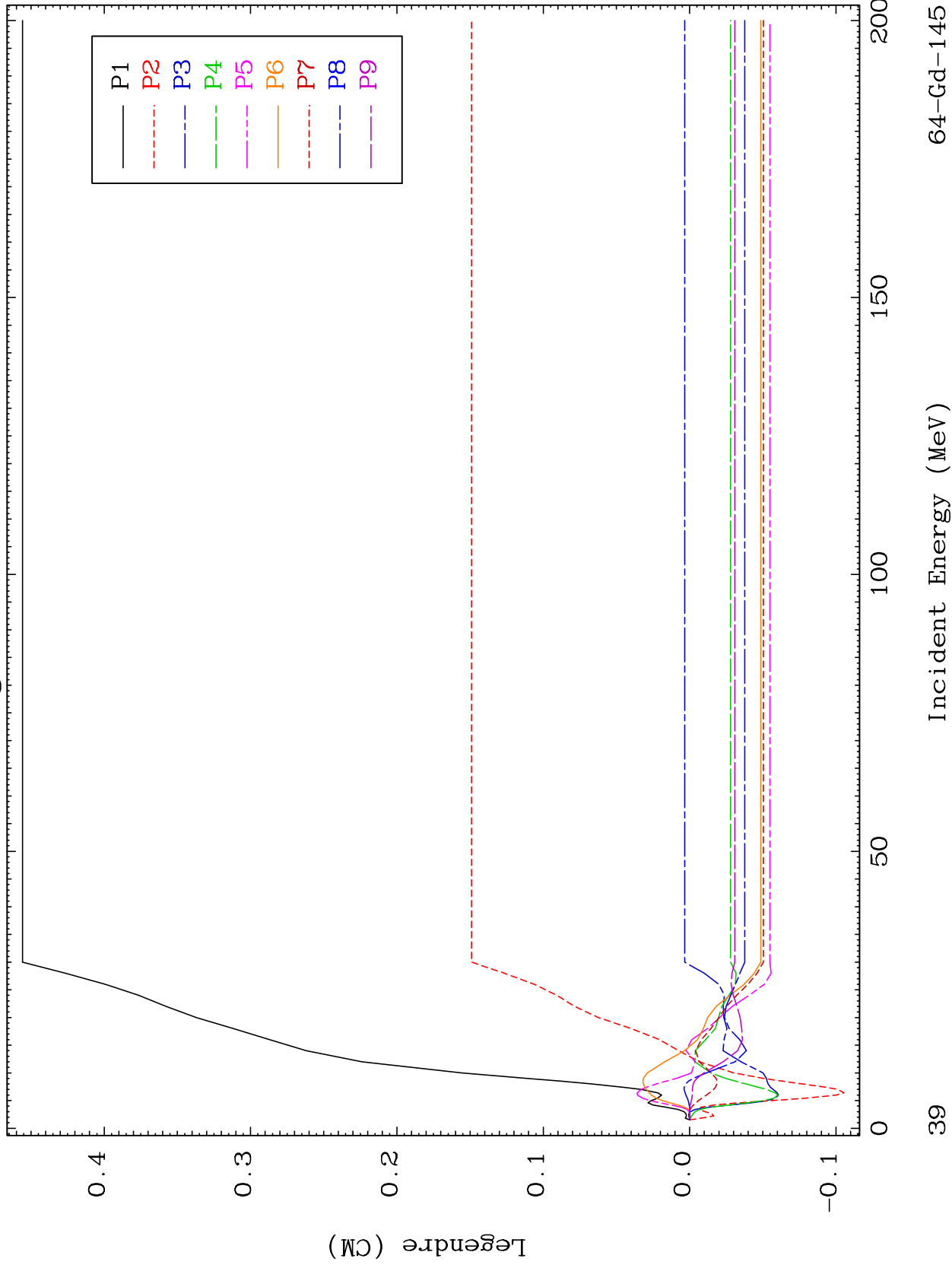
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



64-Gd-145

Incident Energy (MeV)

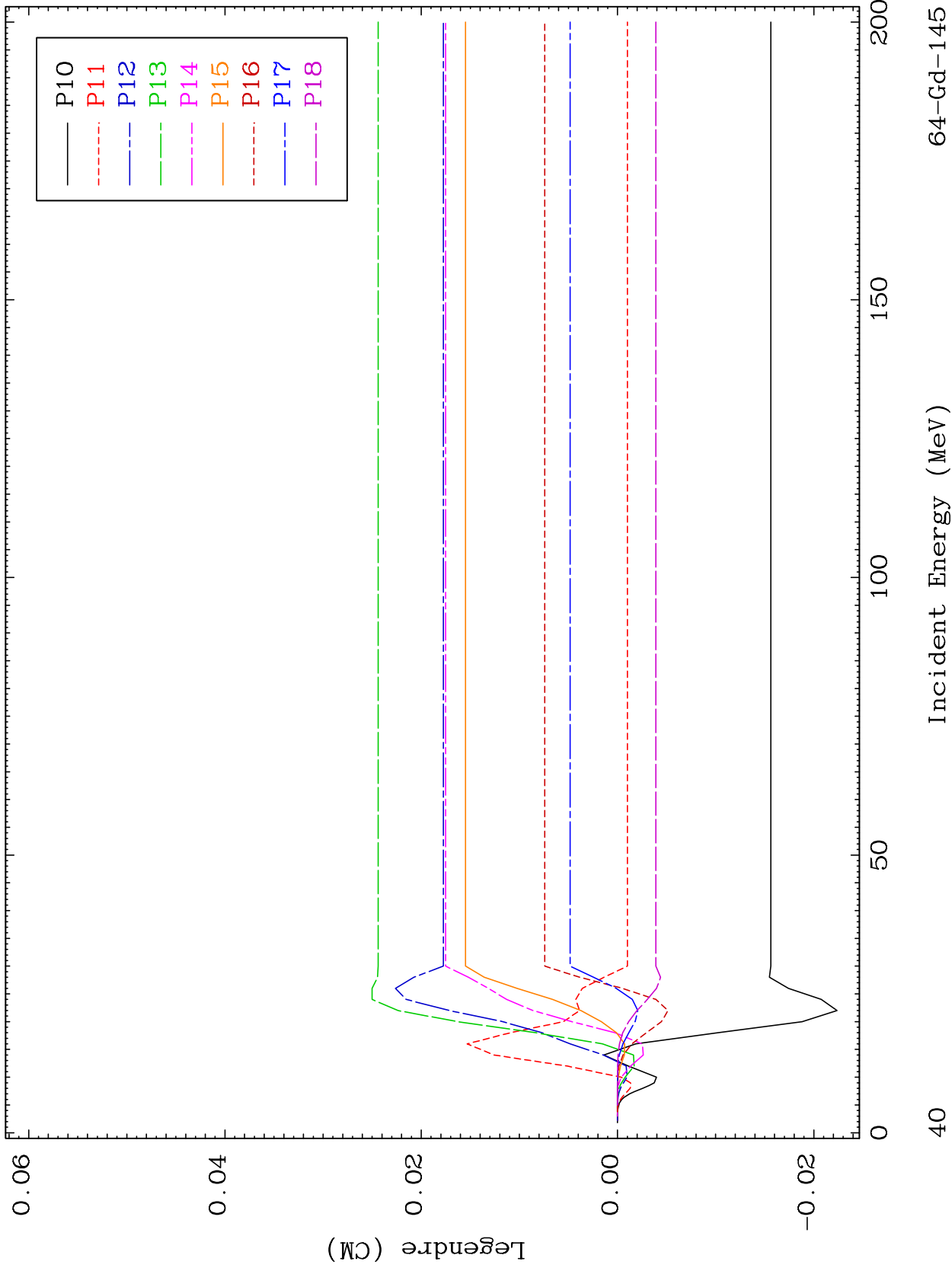
39



MAT 6404

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

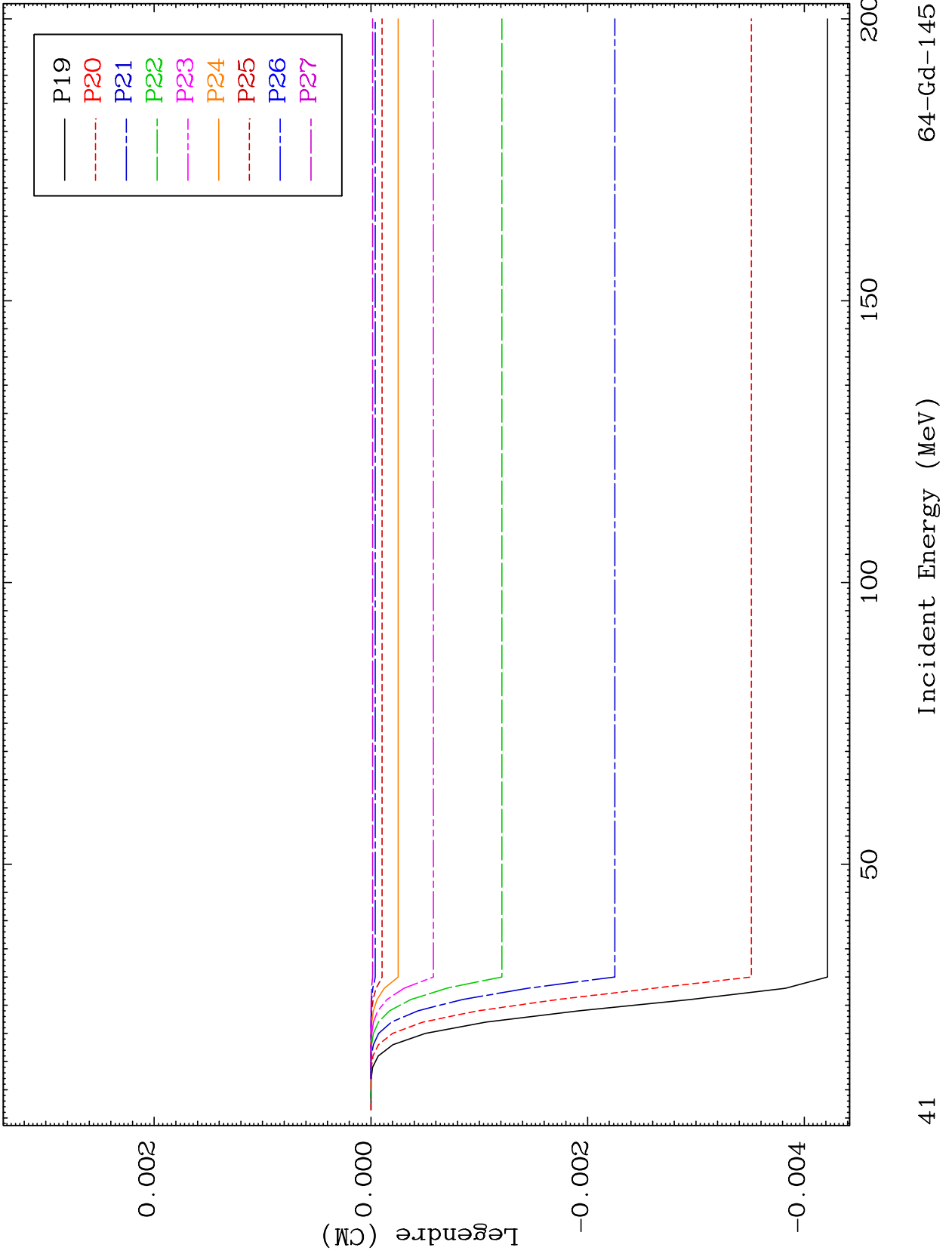
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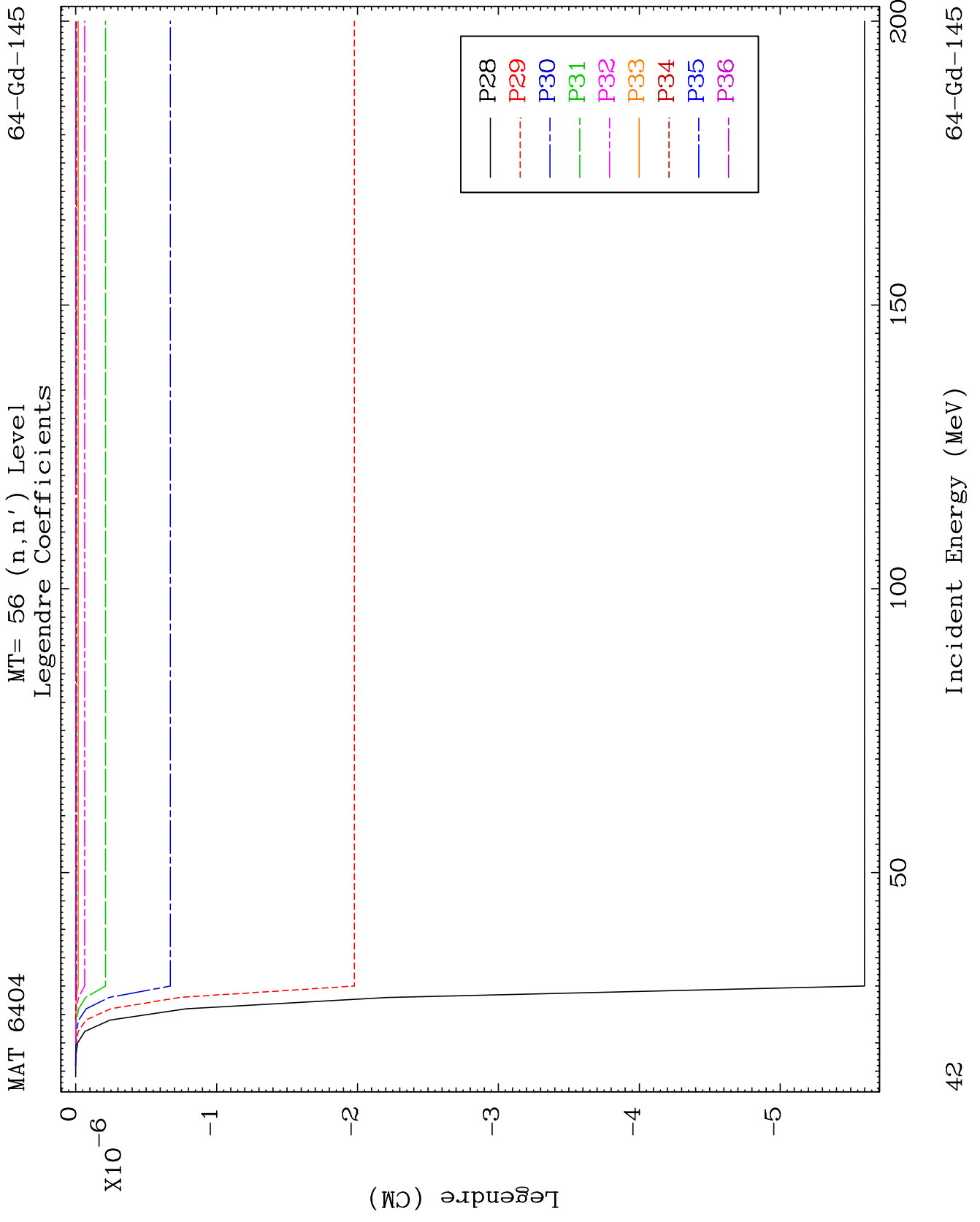


MAT 6404

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

64-Gd-145



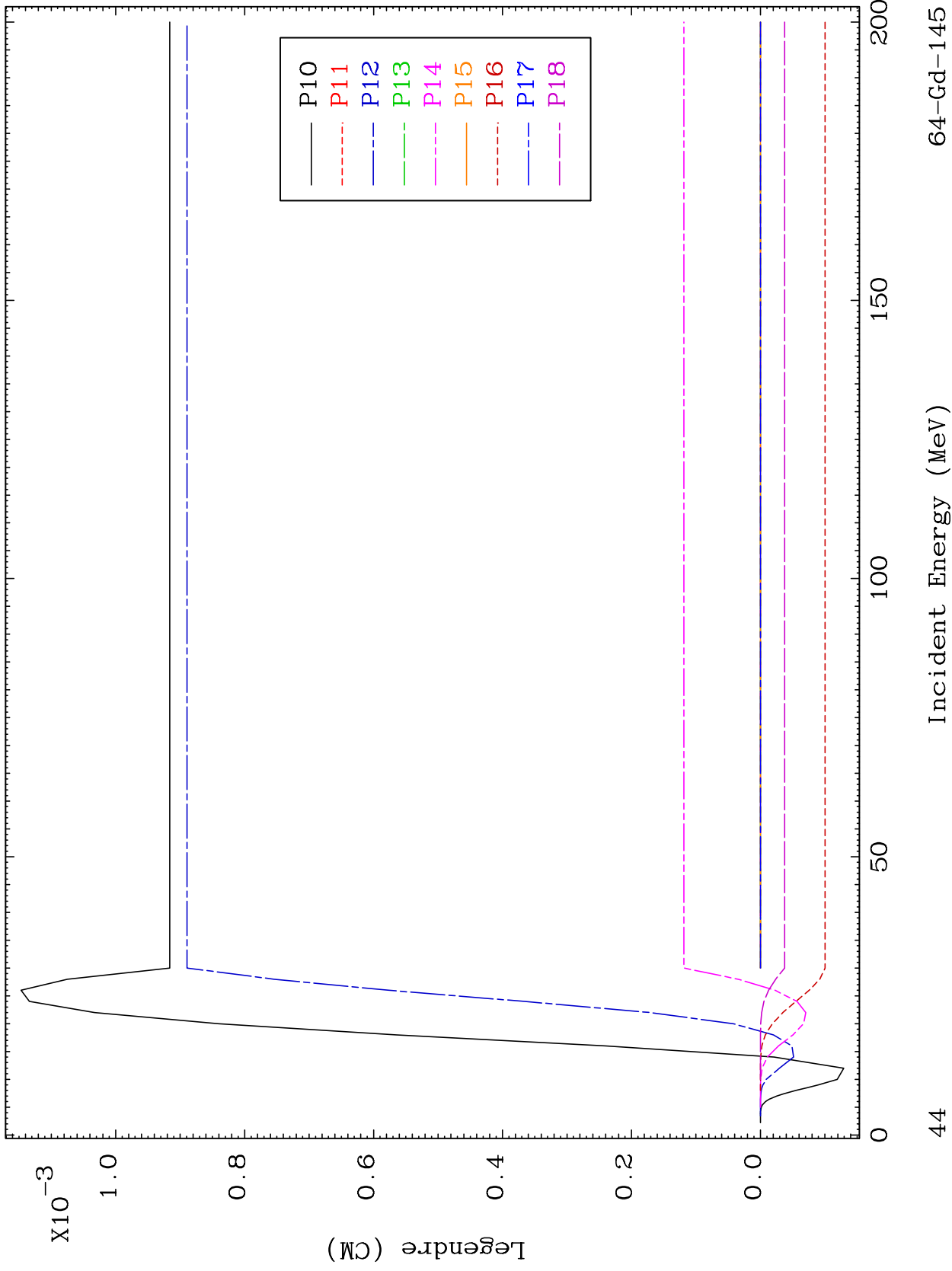


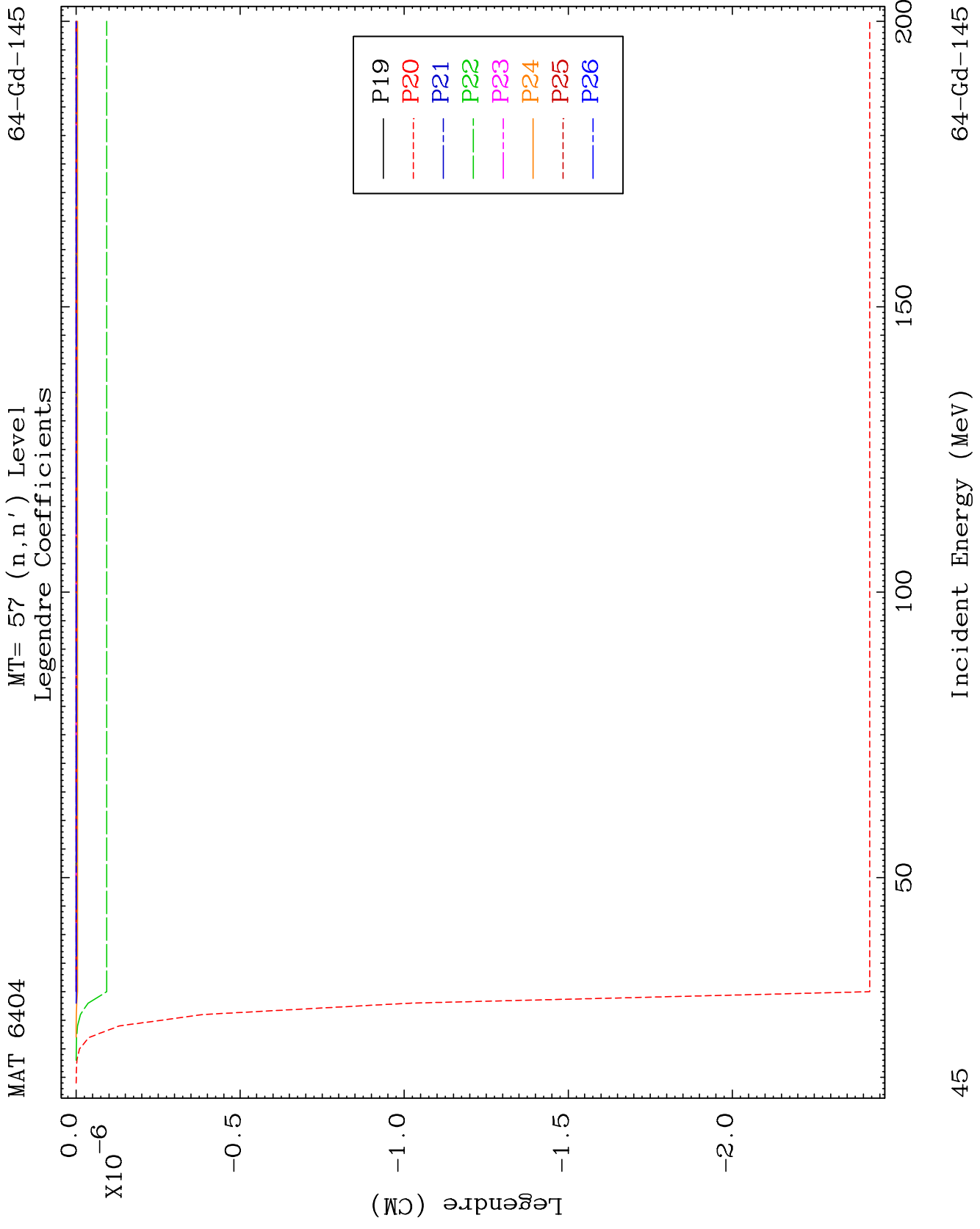


MAT 6404

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

64-Gd-145

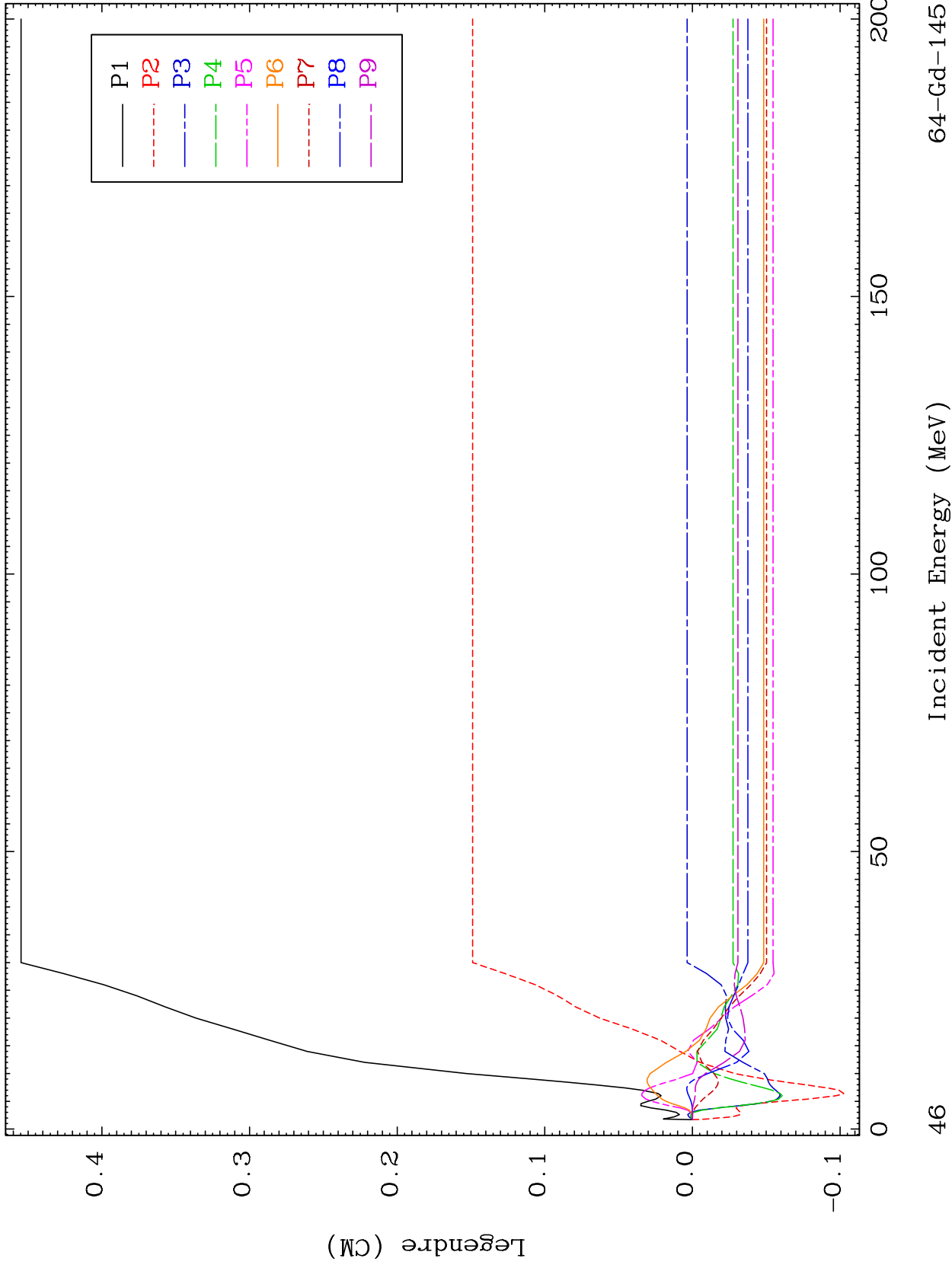




MAT 6404

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

64-Gd-145



64-Gd-145

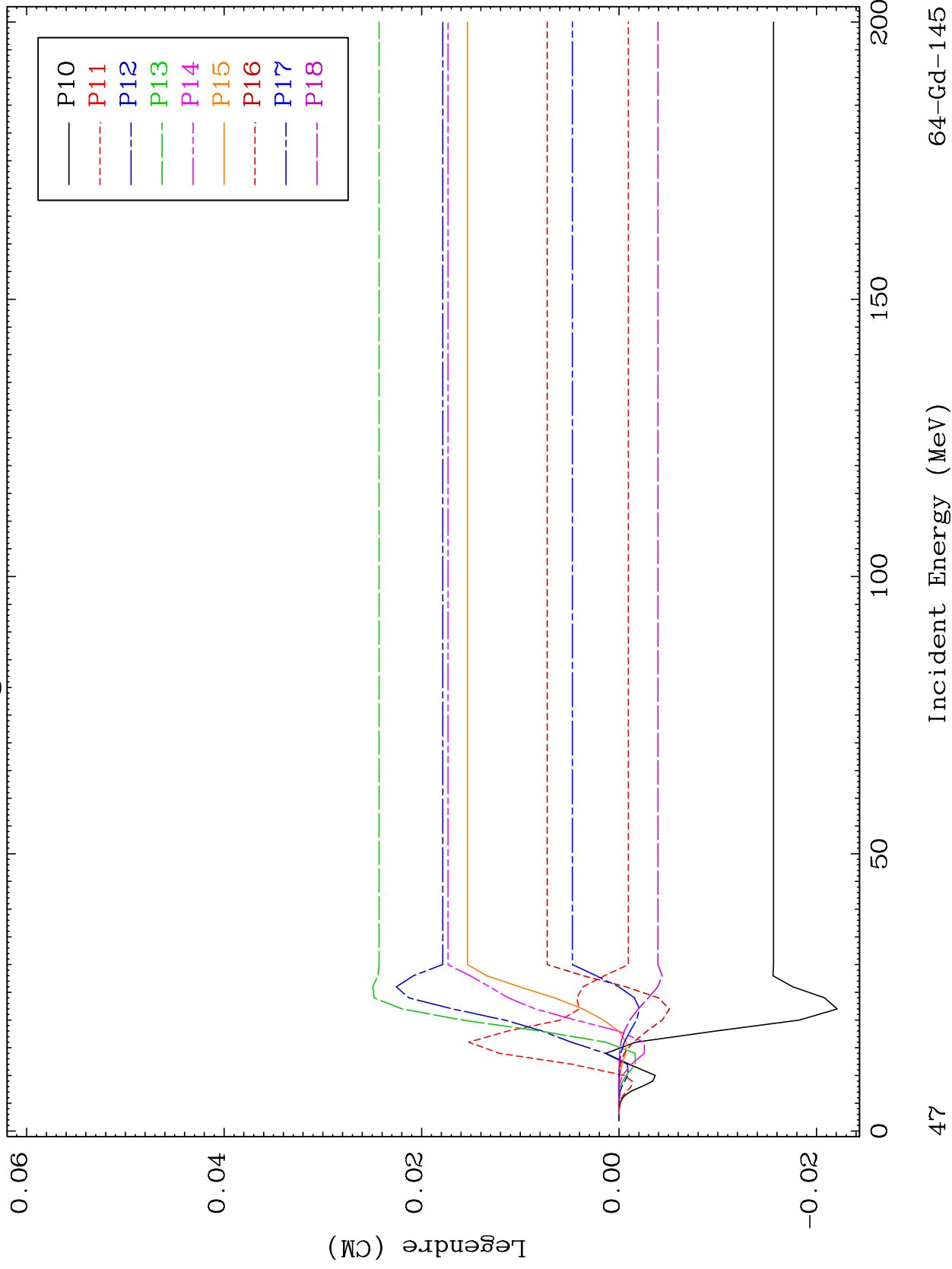
Incident Energy (MeV)

46

MAT 6404

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

64-Gd-145



47

Incident Energy (MeV)

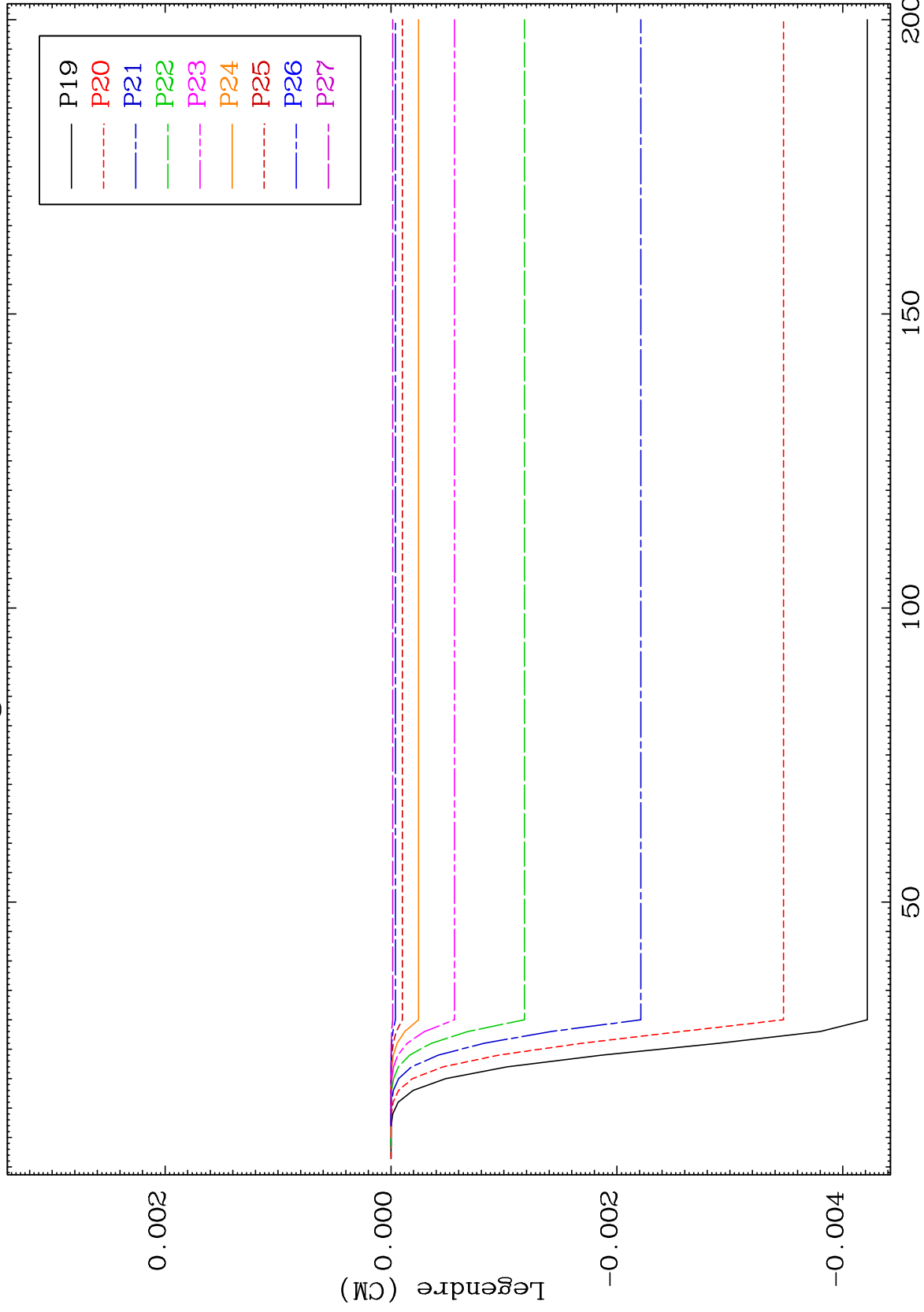
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MAT 6404

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

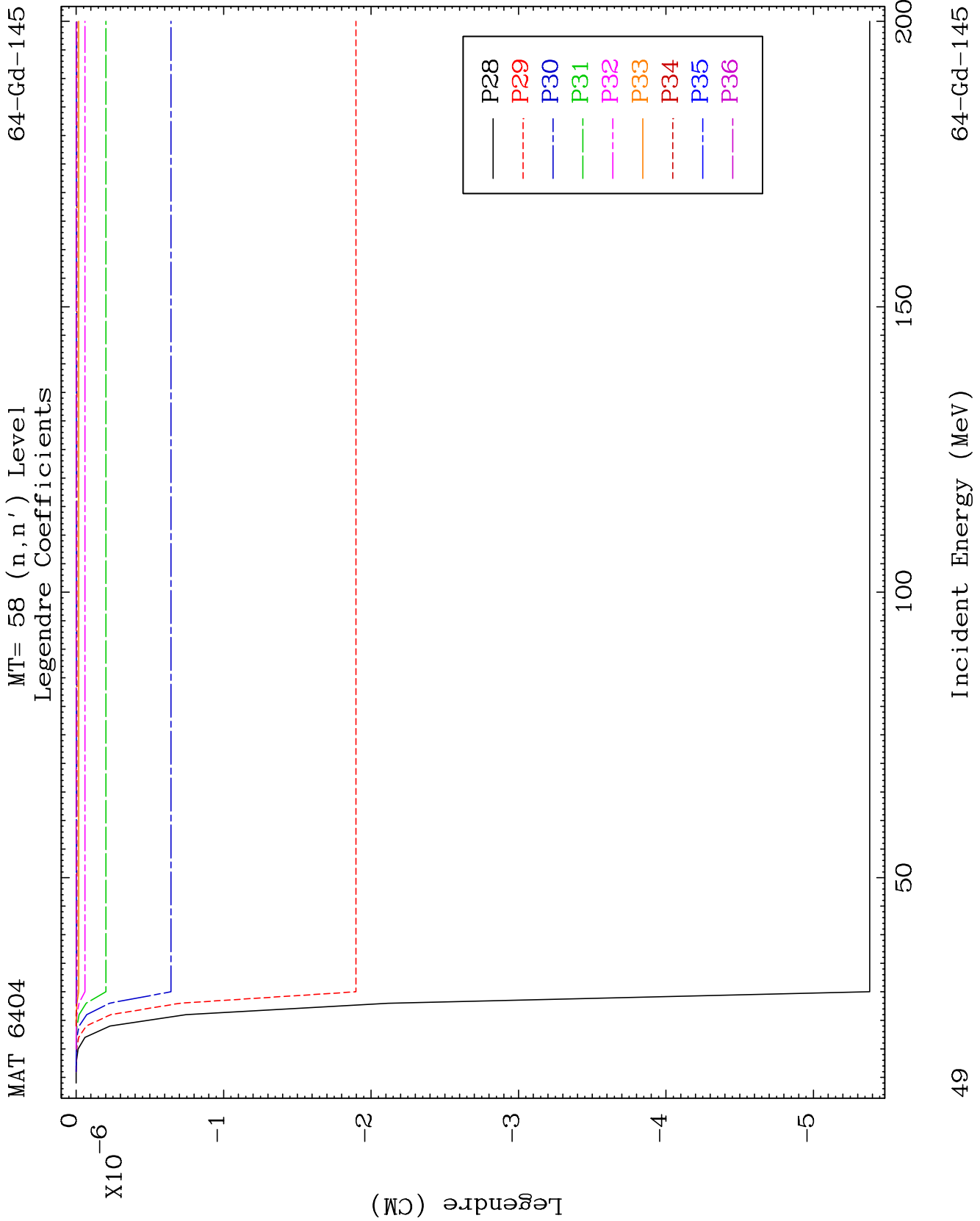
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48

Incident Energy (MeV)

64-Gd-145

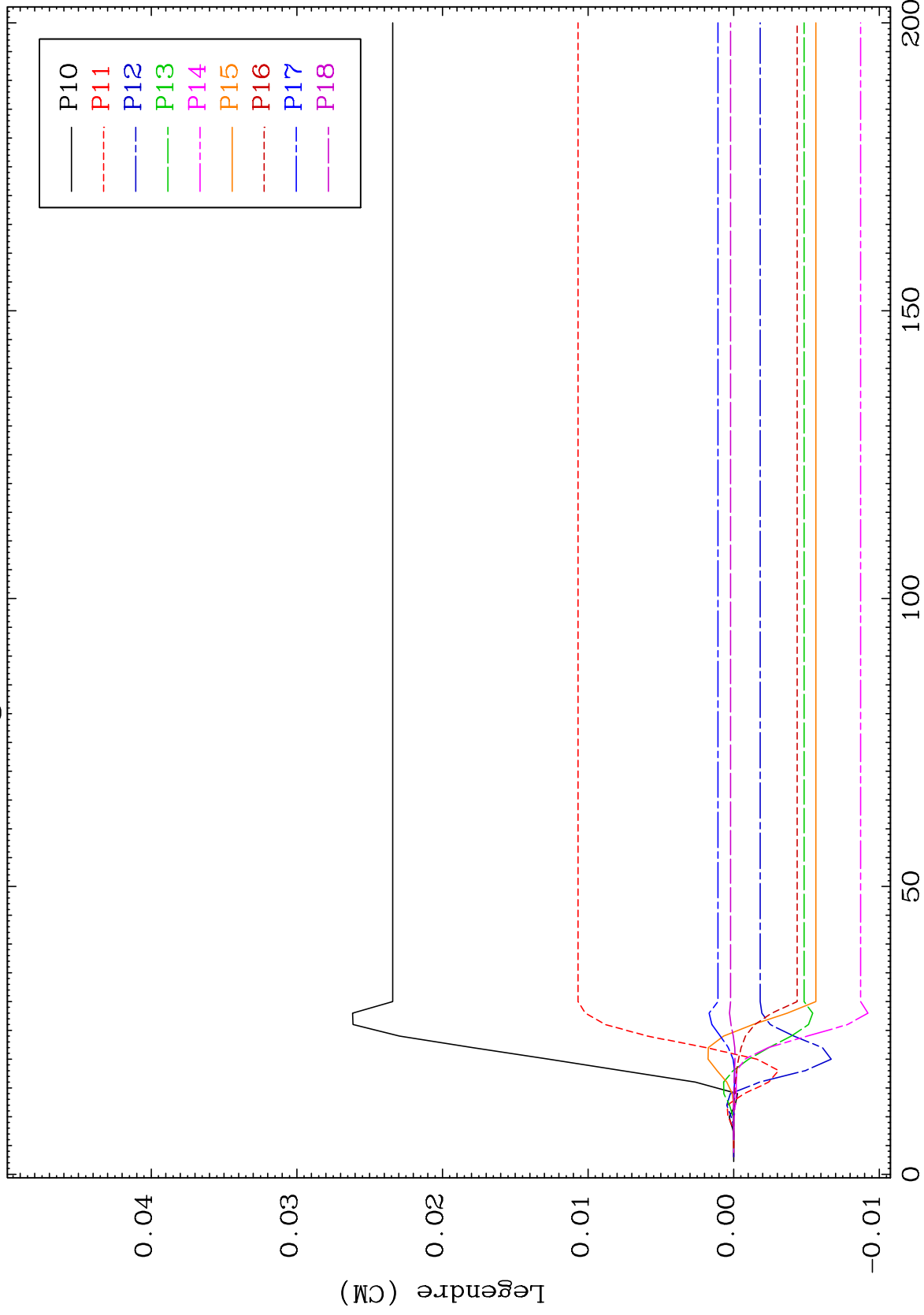




MAT 6404

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

64-Gd-145



51

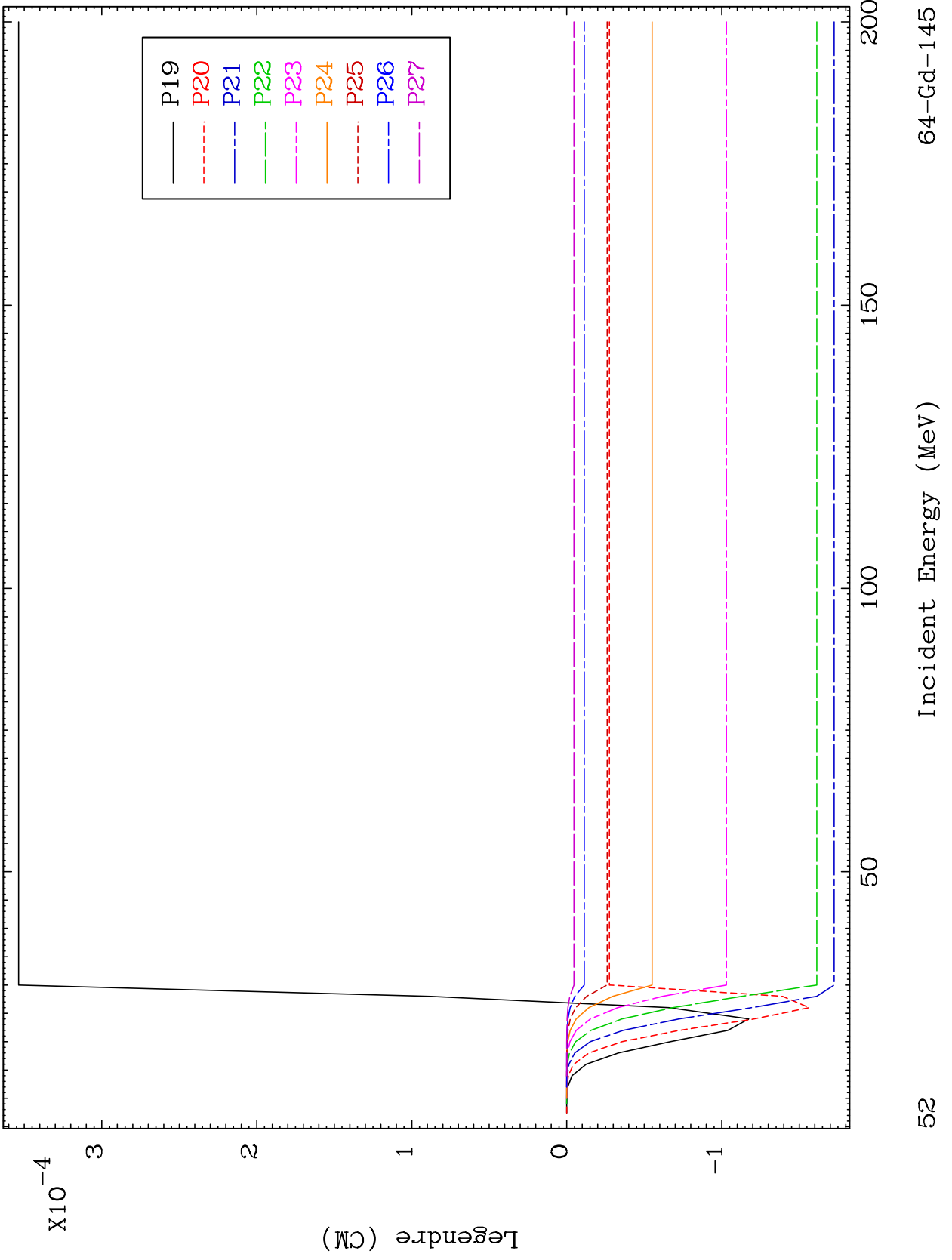
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

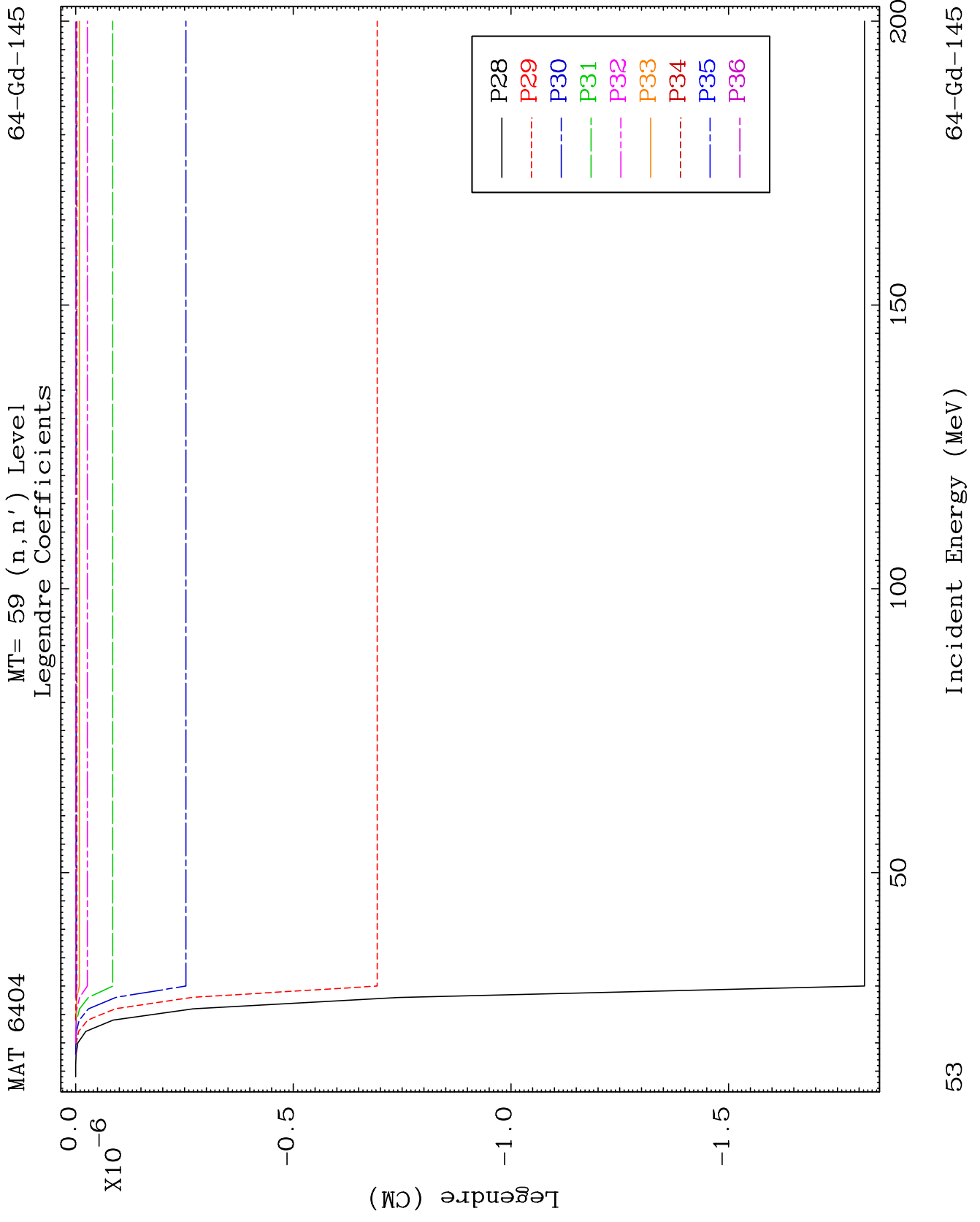
64-Gd-145



52

Incident Energy (MeV)

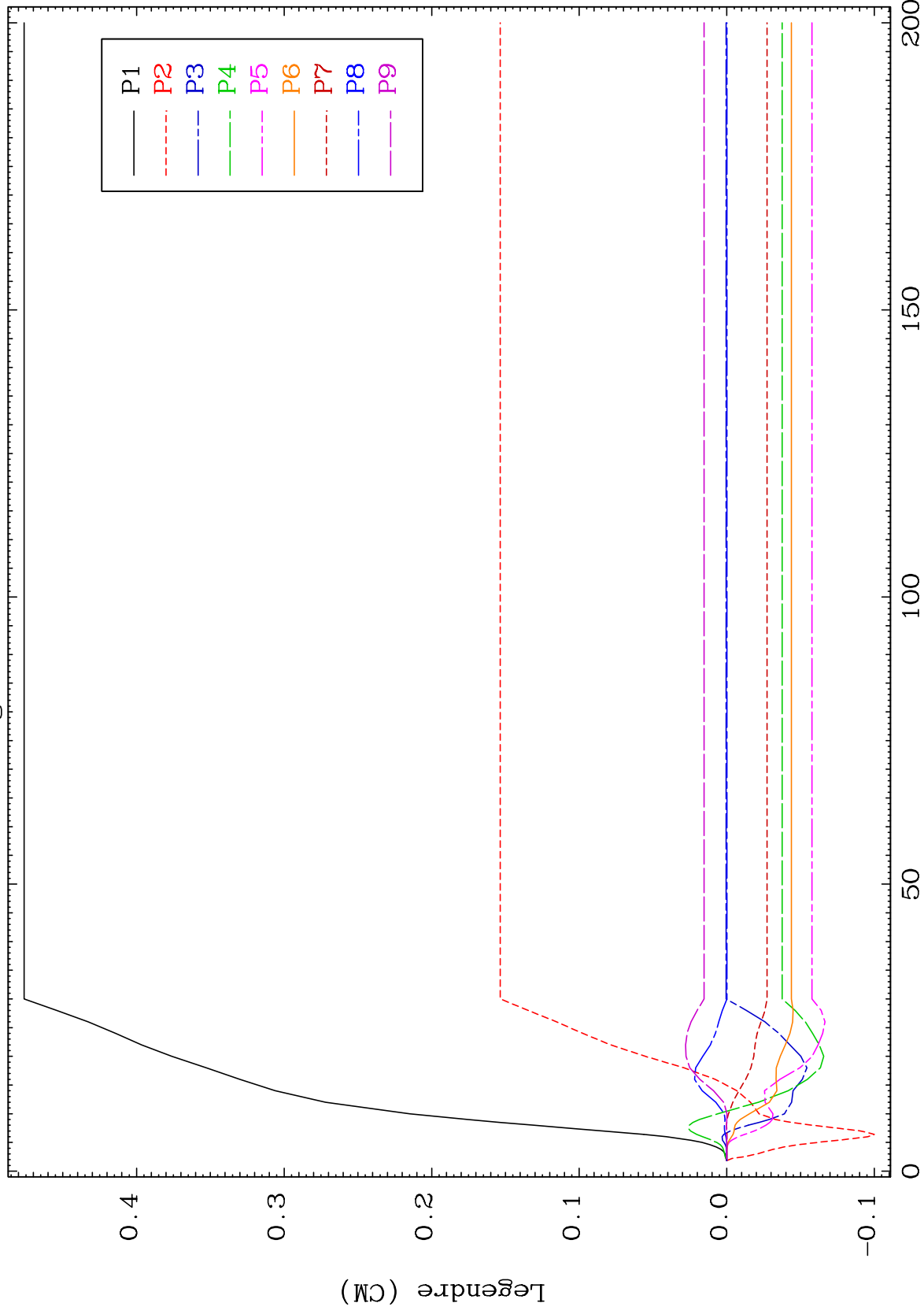
64-Gd-145



MAT 6404

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

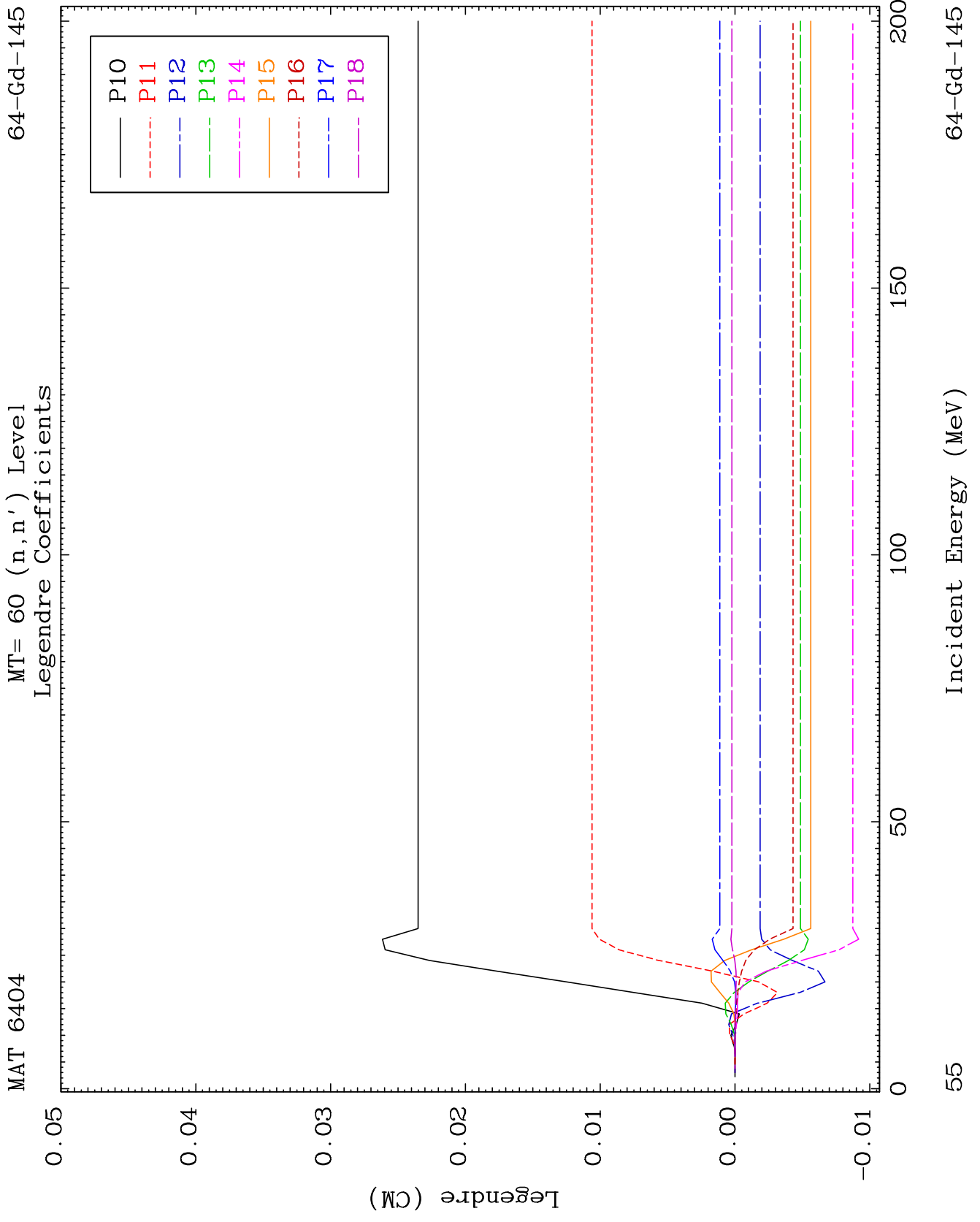
64-Gd-145



54

Incident Energy (MeV)

64-Gd-145

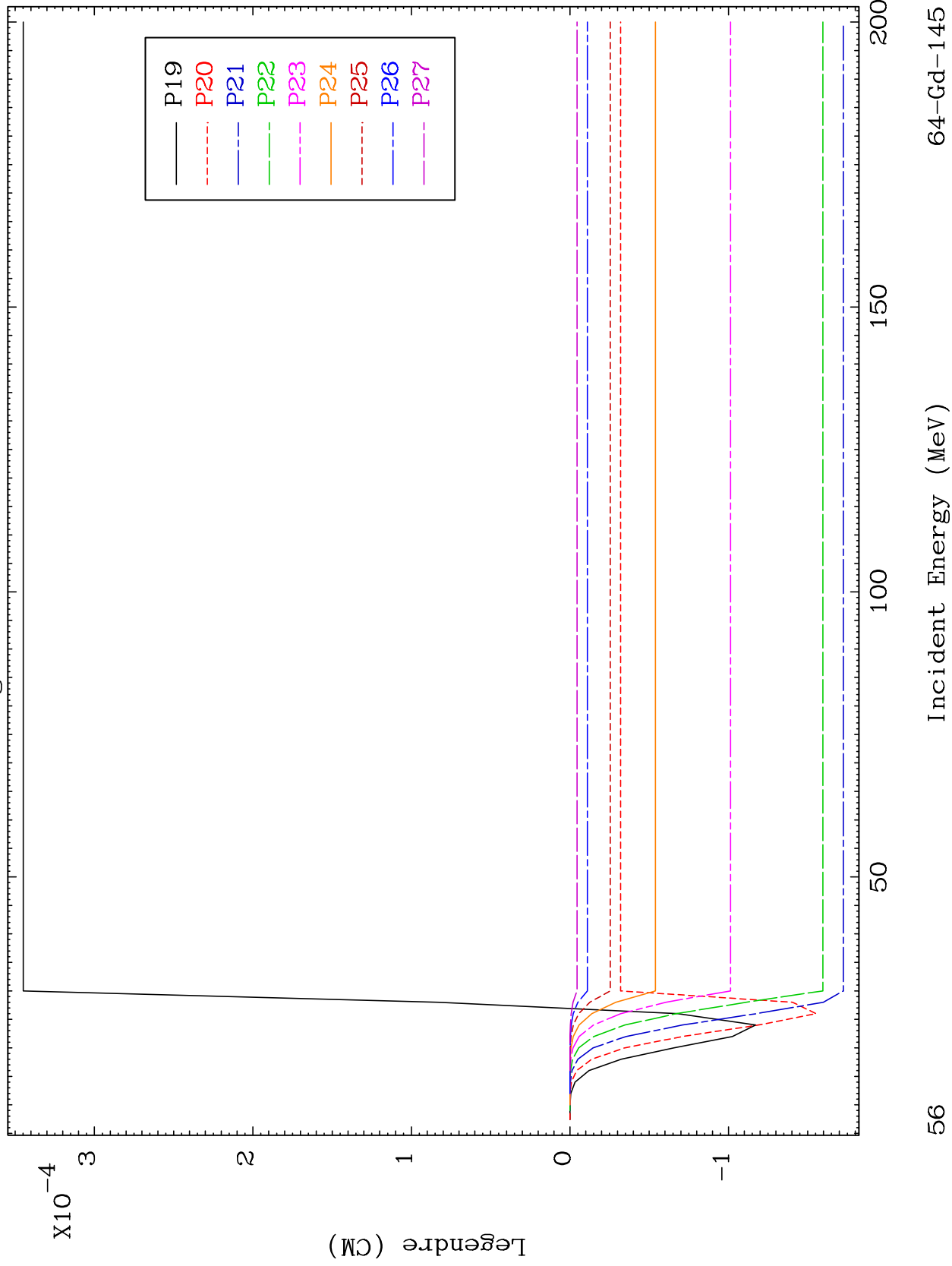




MAT 6404

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

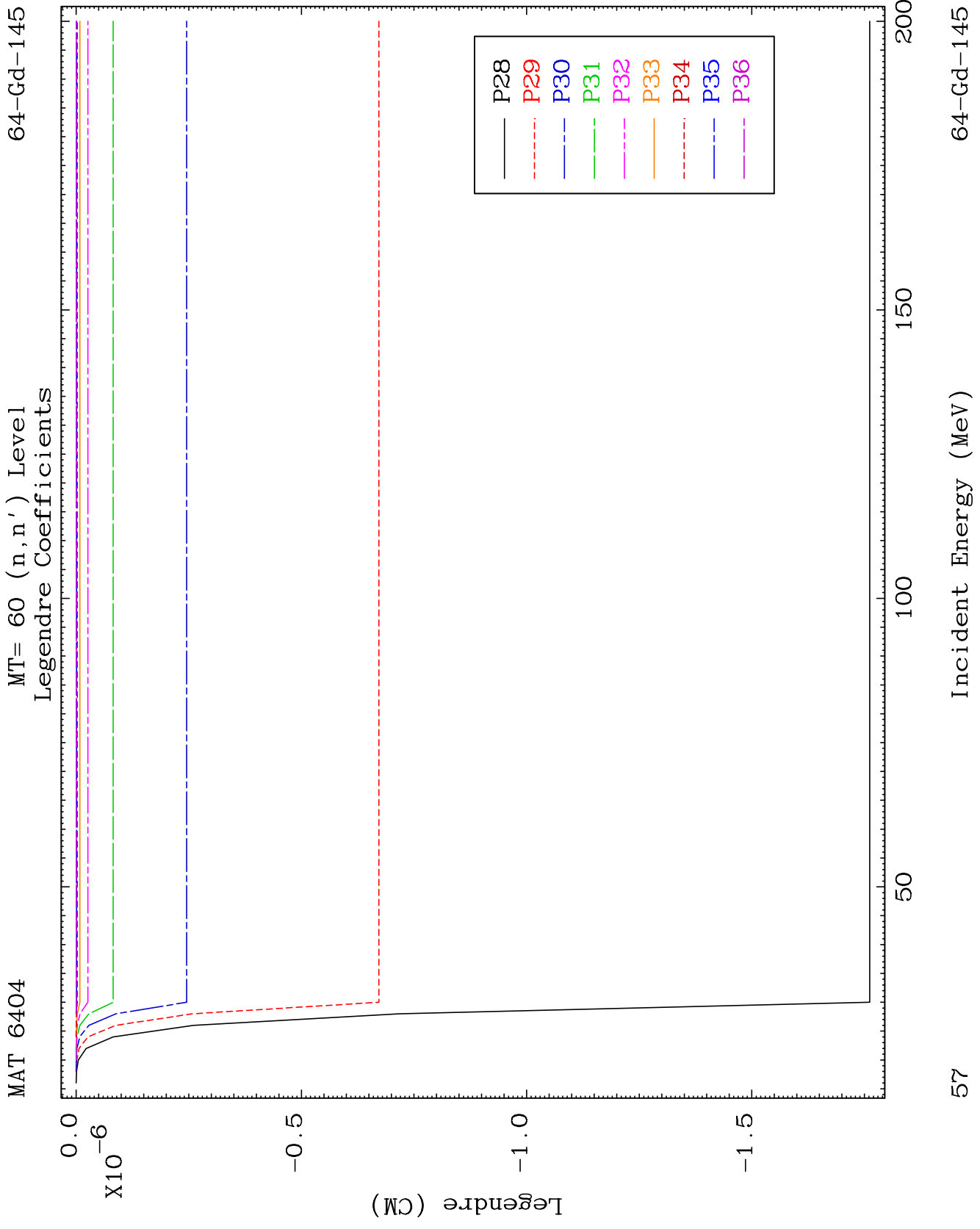
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56

Incident Energy (MeV)

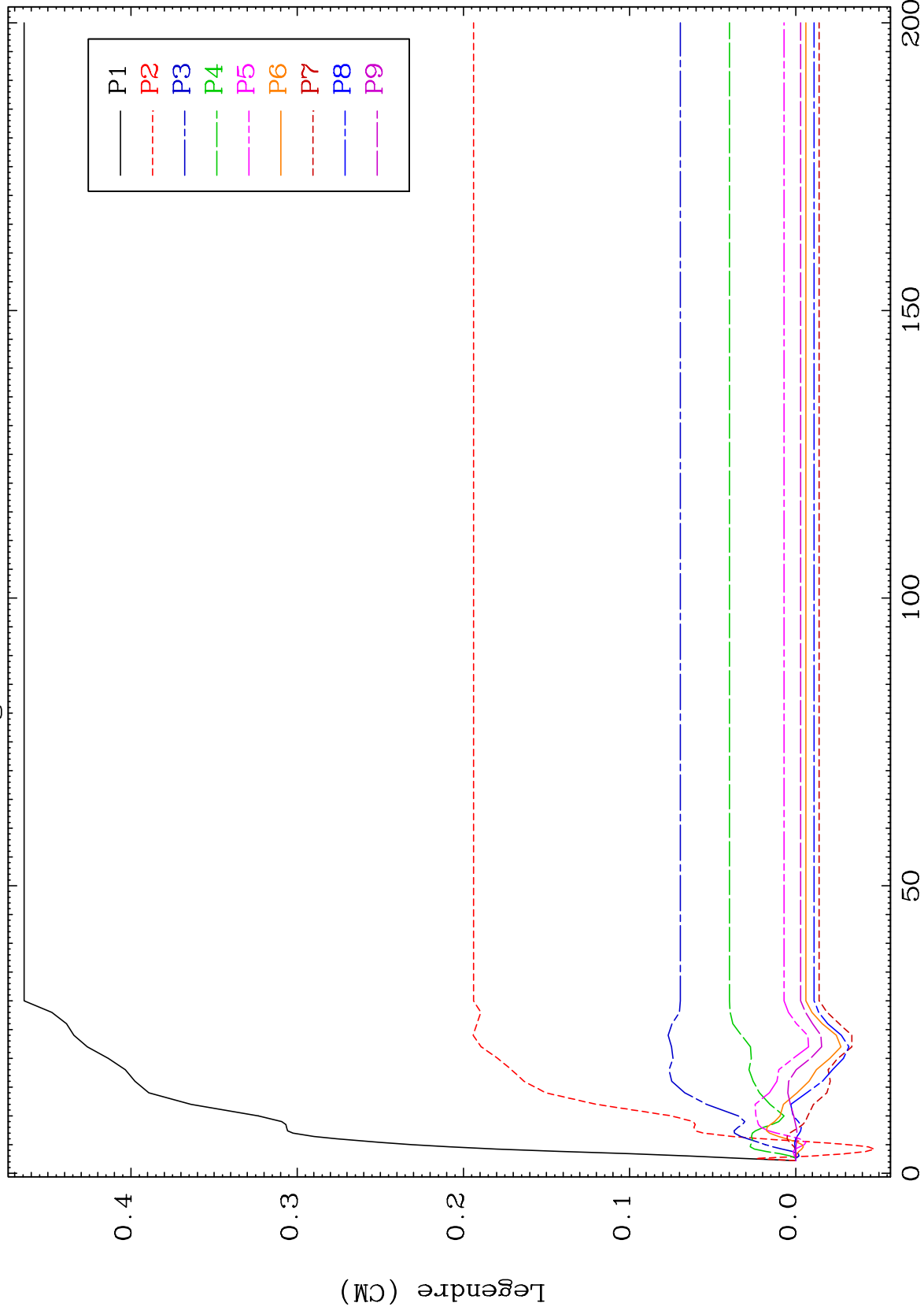
64-Gd-145



MAT 6404

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

64-Gd-145



64-Gd-145

Incident Energy (MeV)

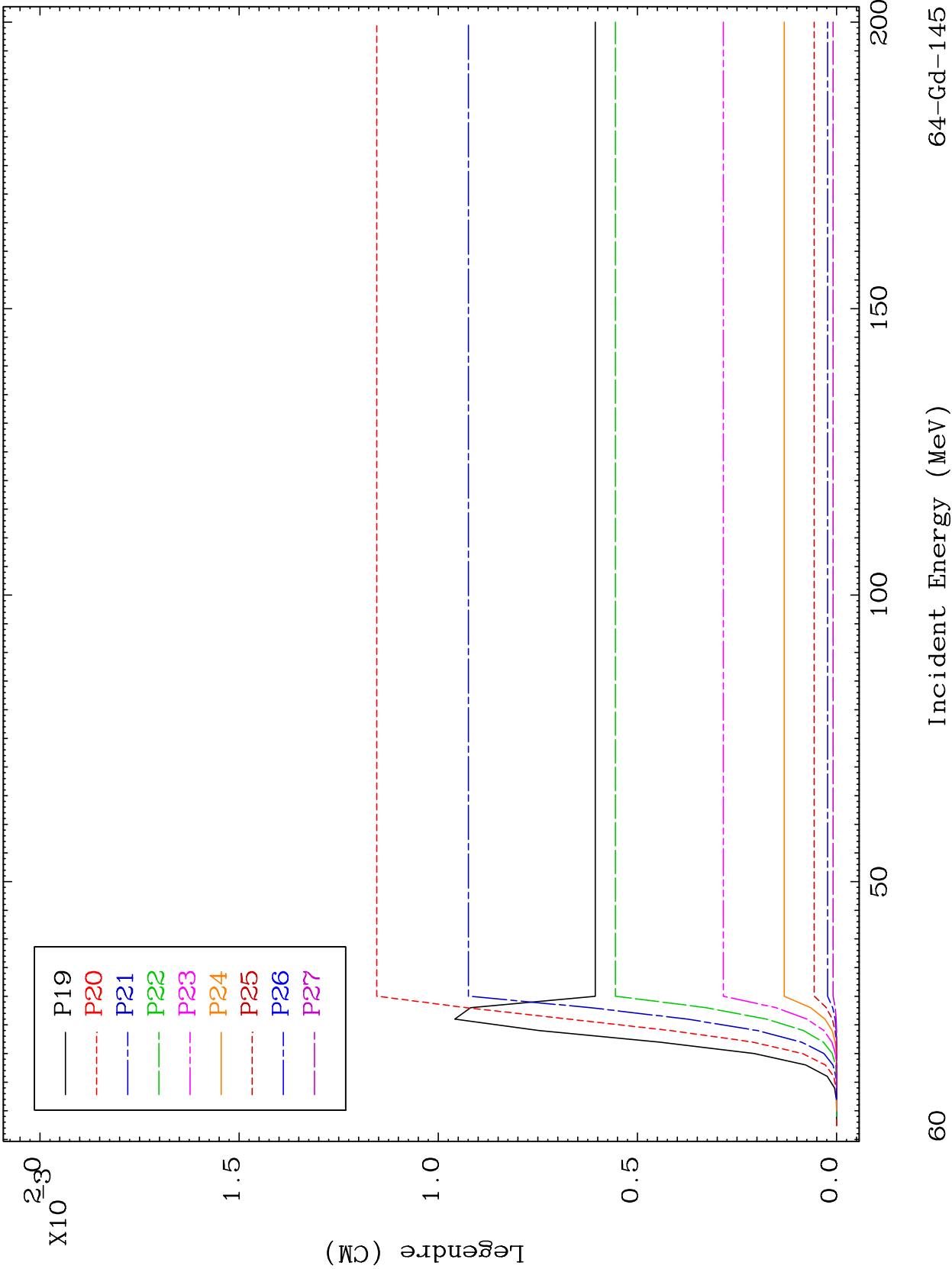
58



MAT 6404

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

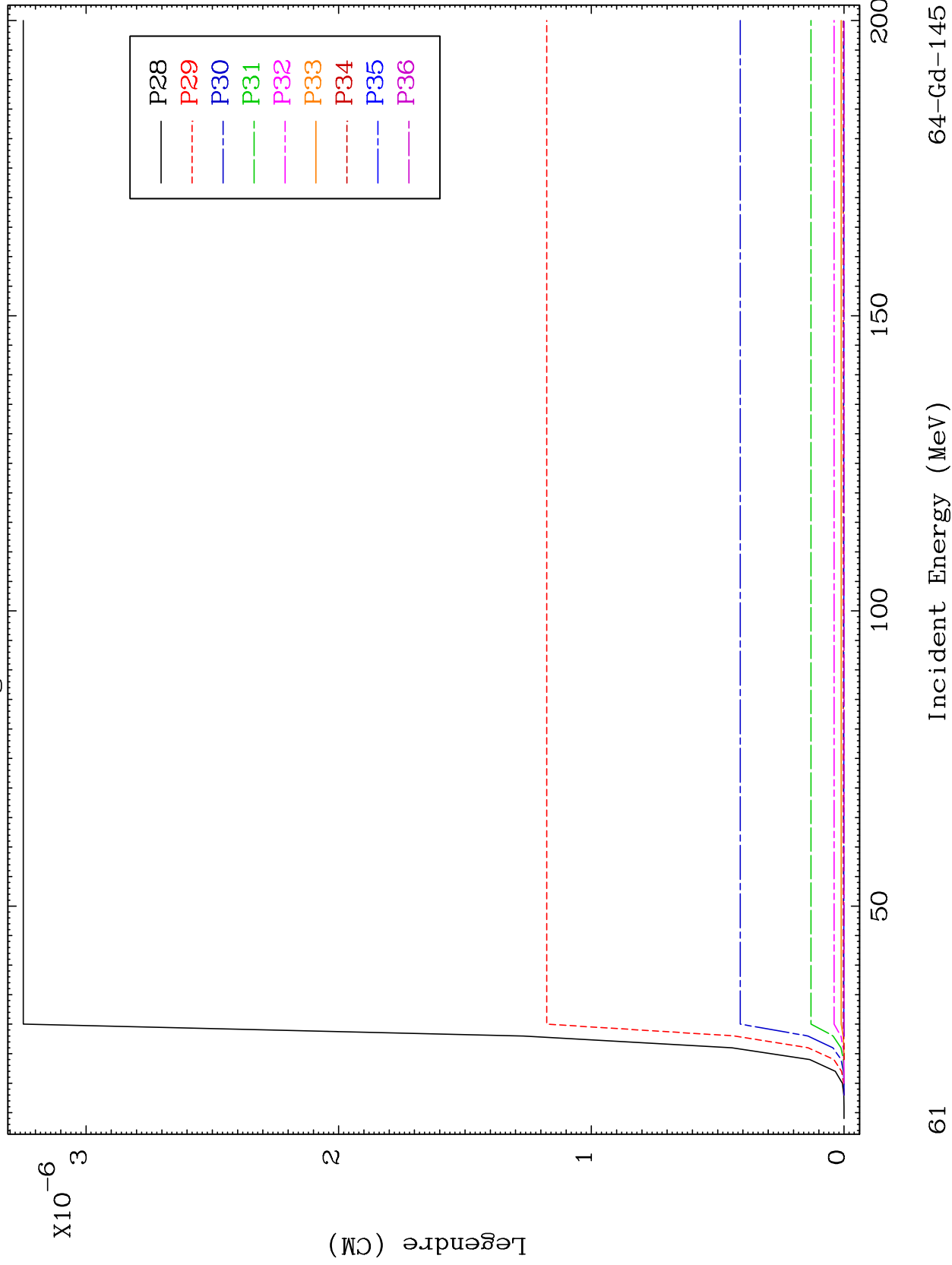
64-Gd-145



MAT 6404

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

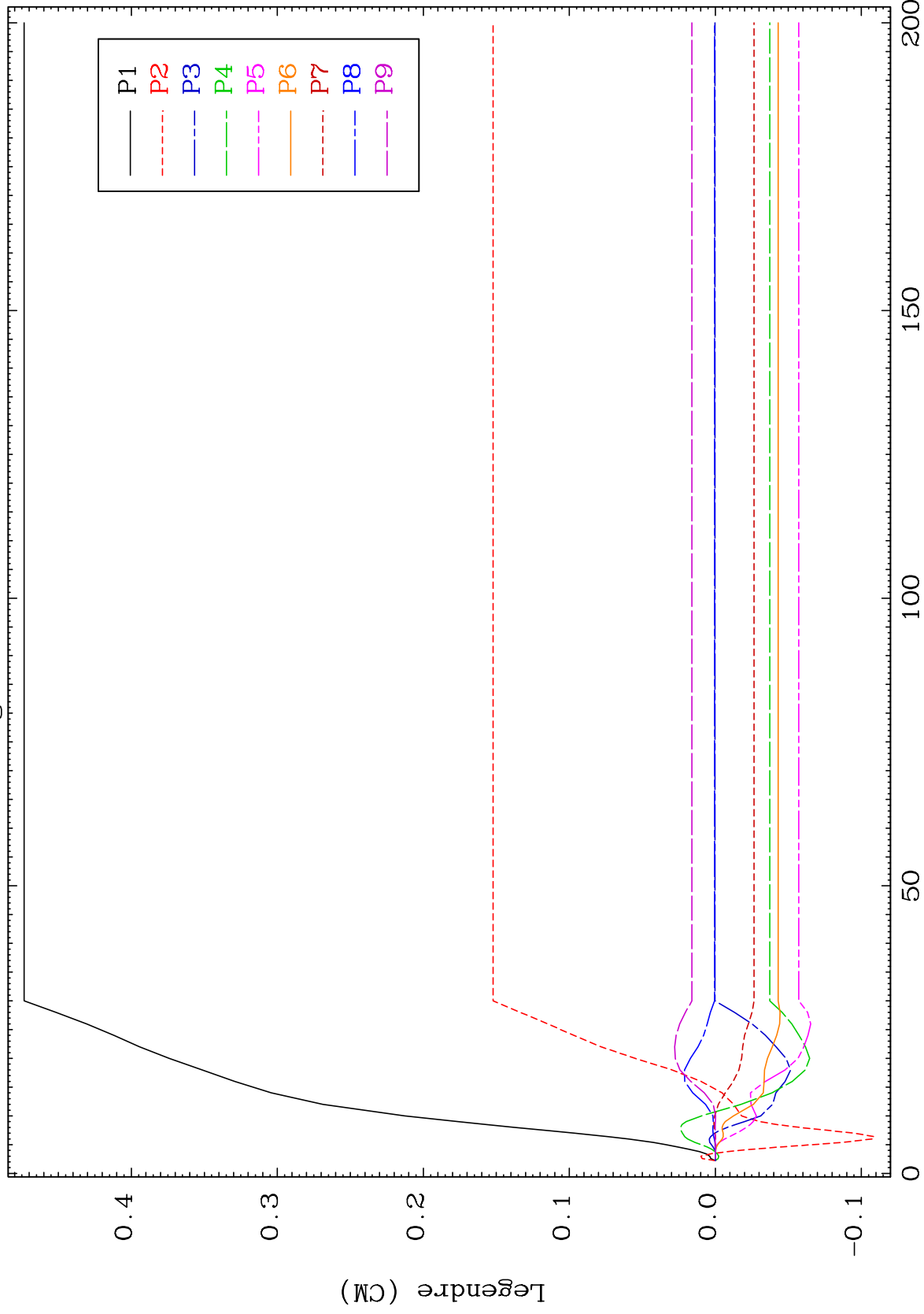
64-Gd-145



MAT 6404

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

64-Gd-145



62

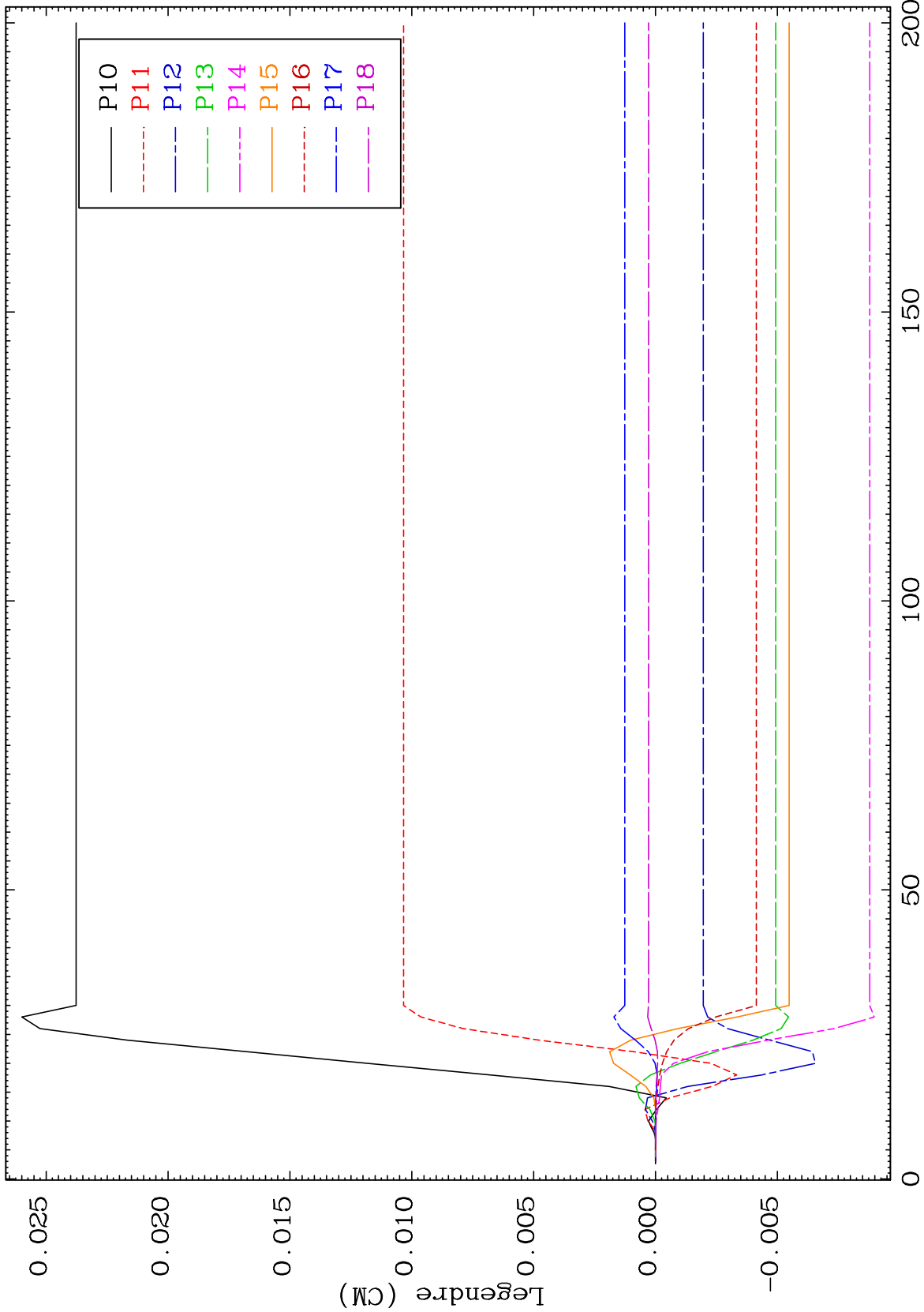
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



63

Incident Energy (MeV)

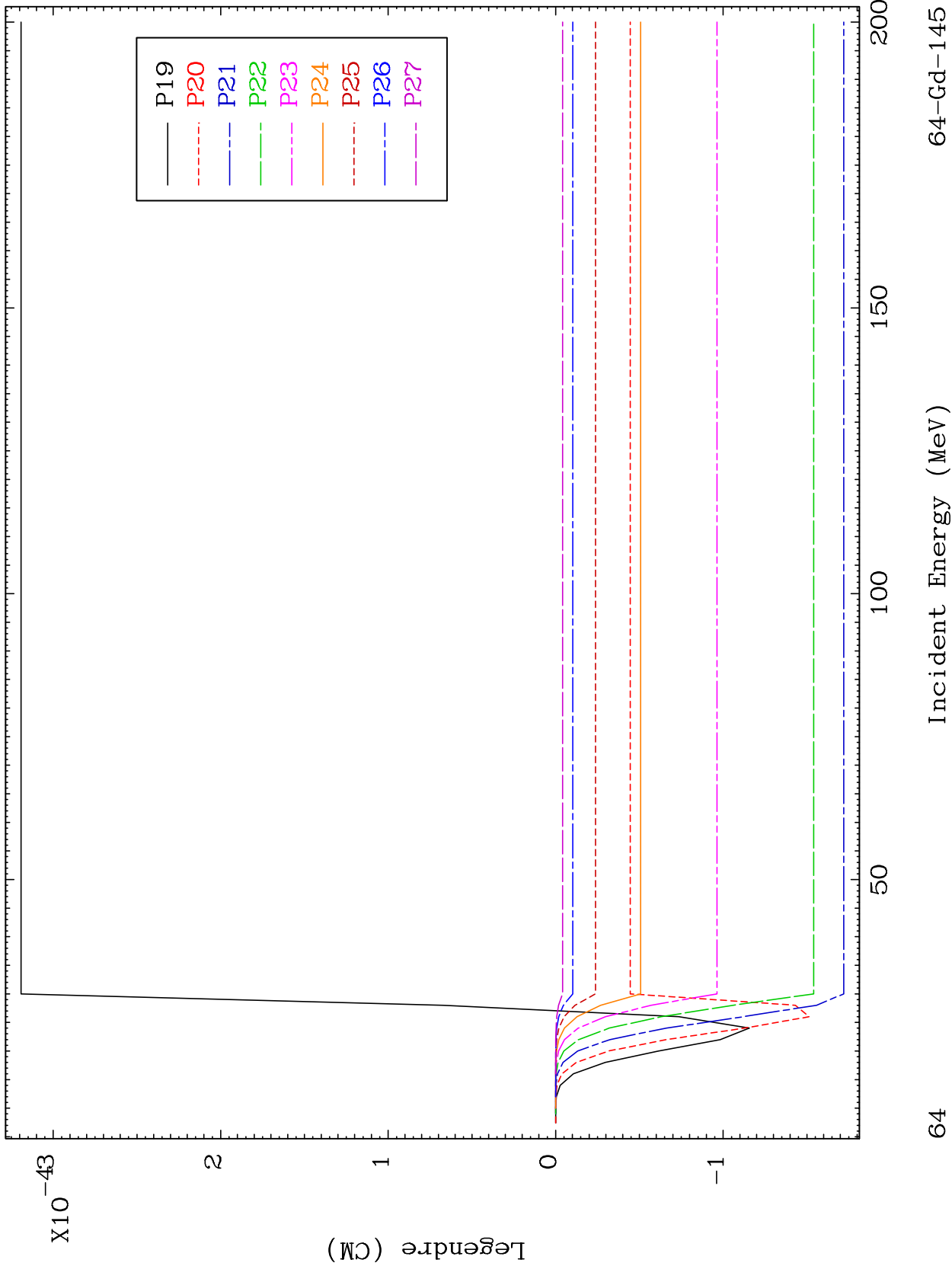
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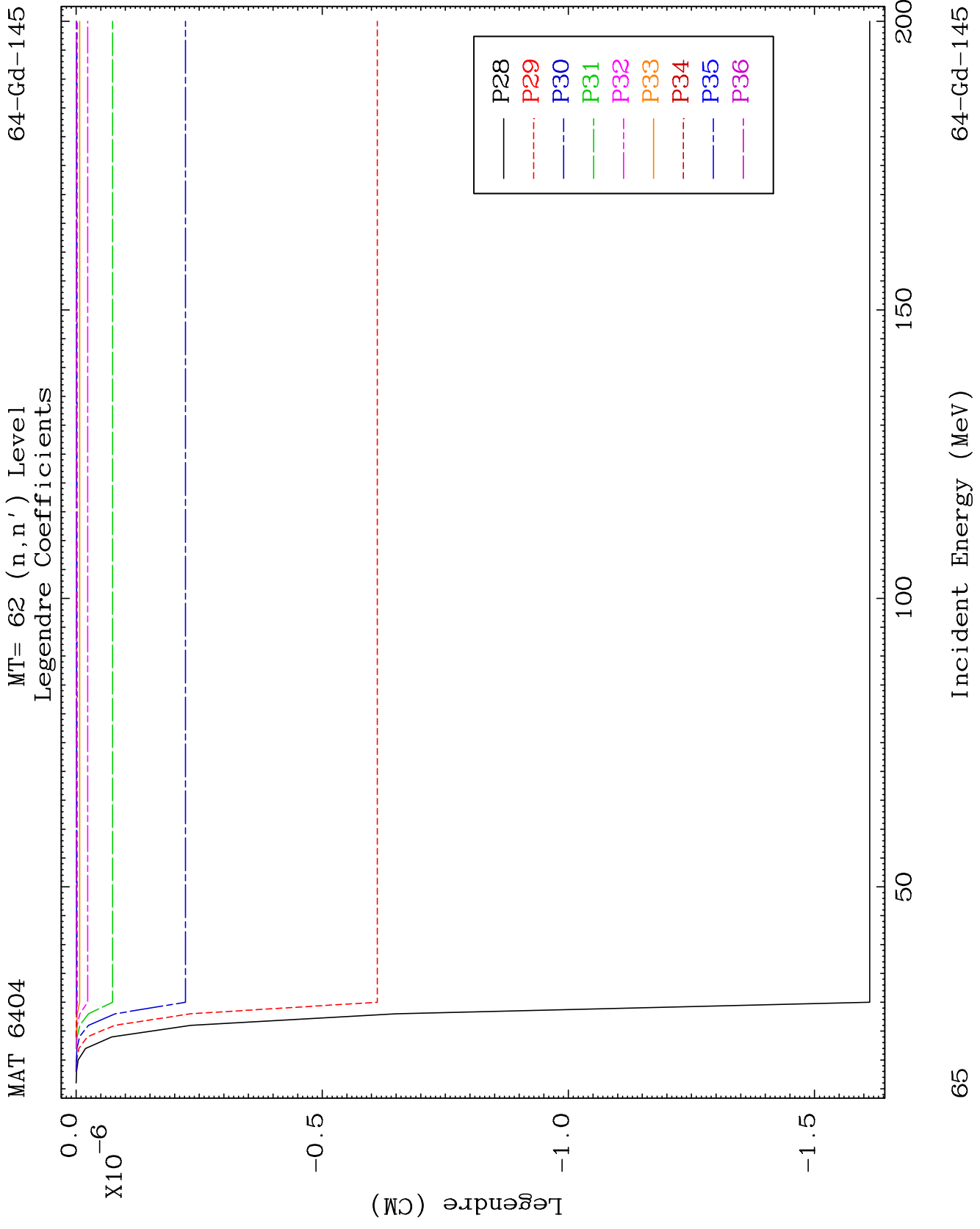
MAT 6404

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

64-Gd-145



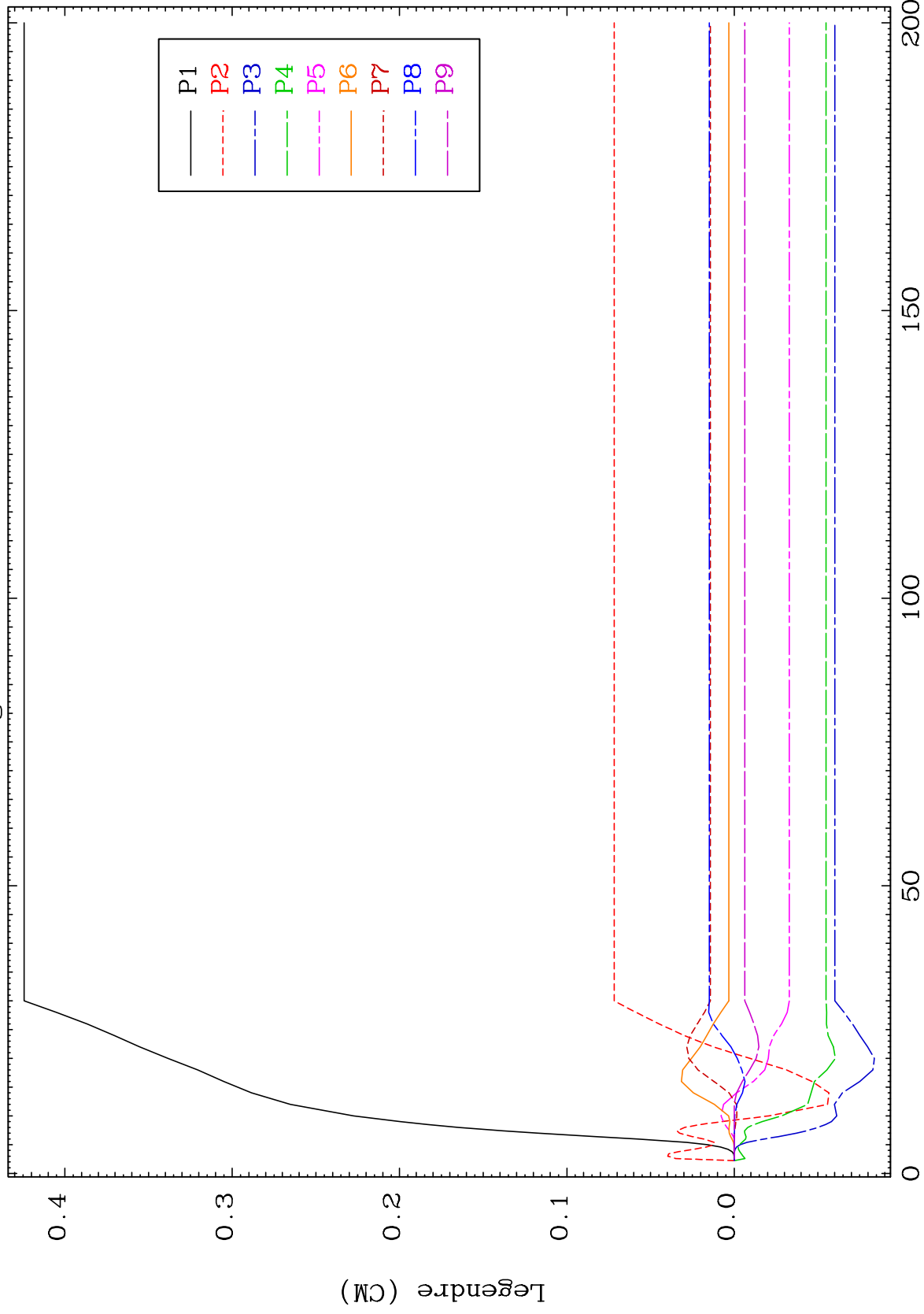
64



MAT 6404

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

64-Gd-145



66

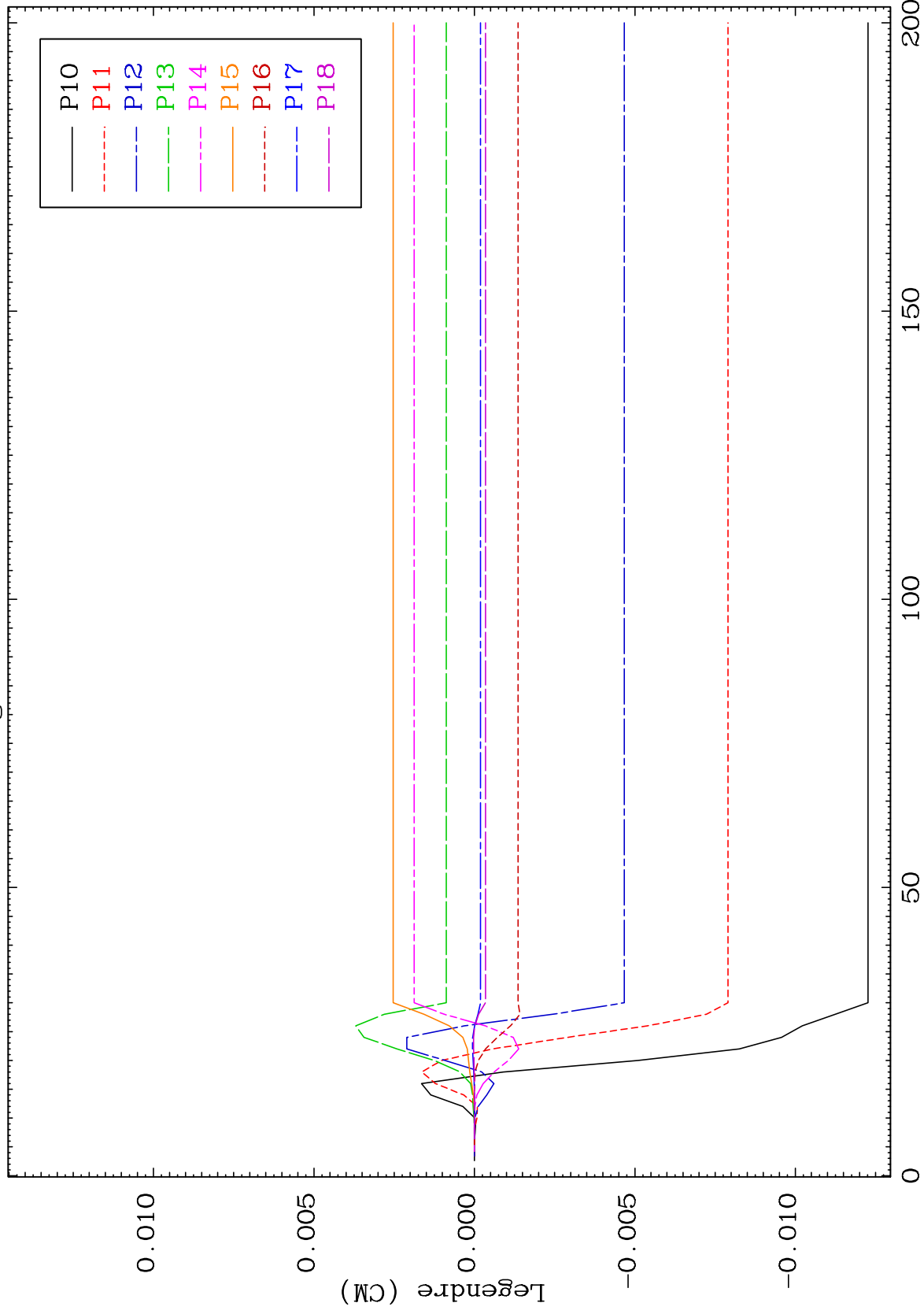
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145

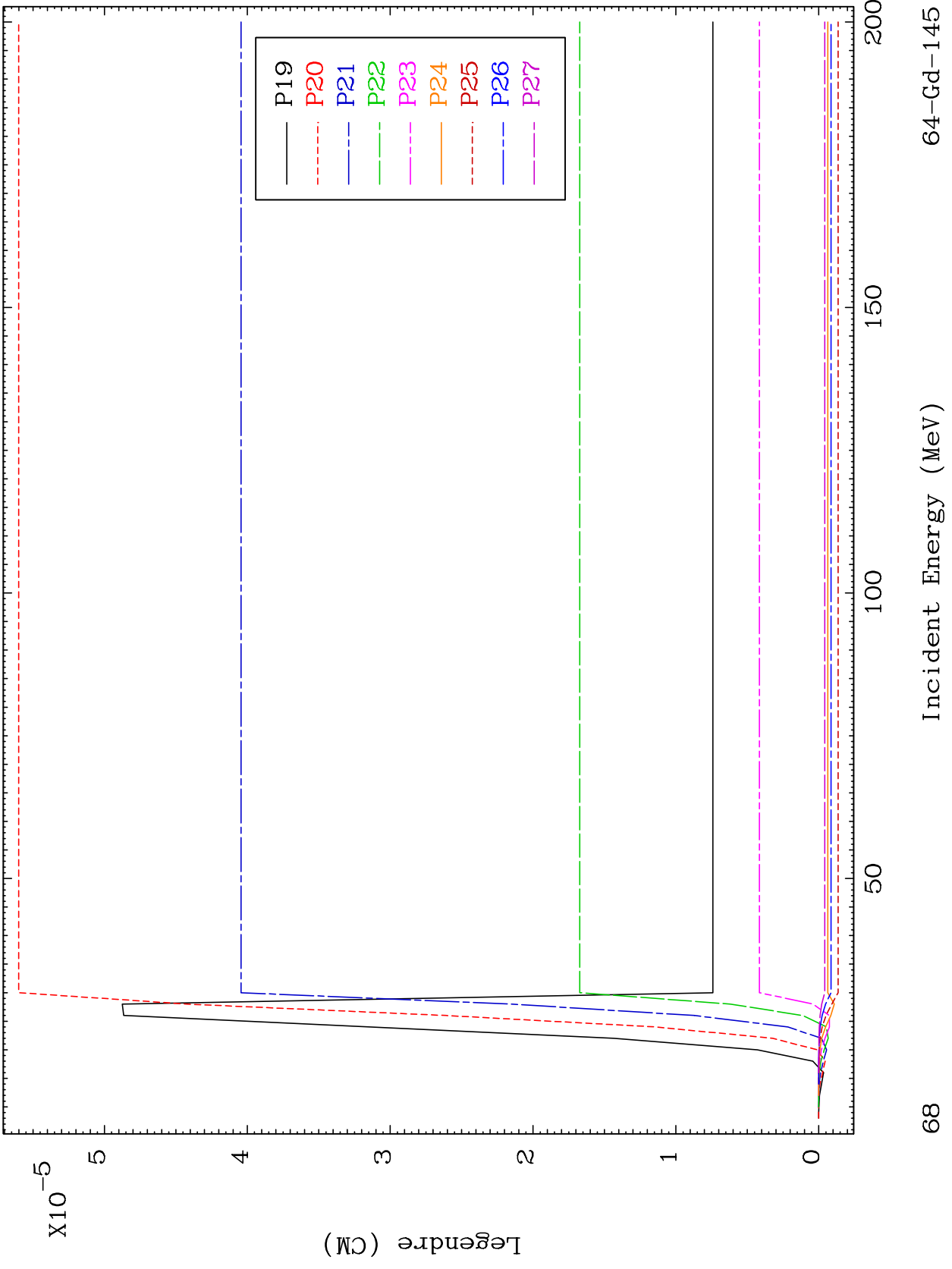


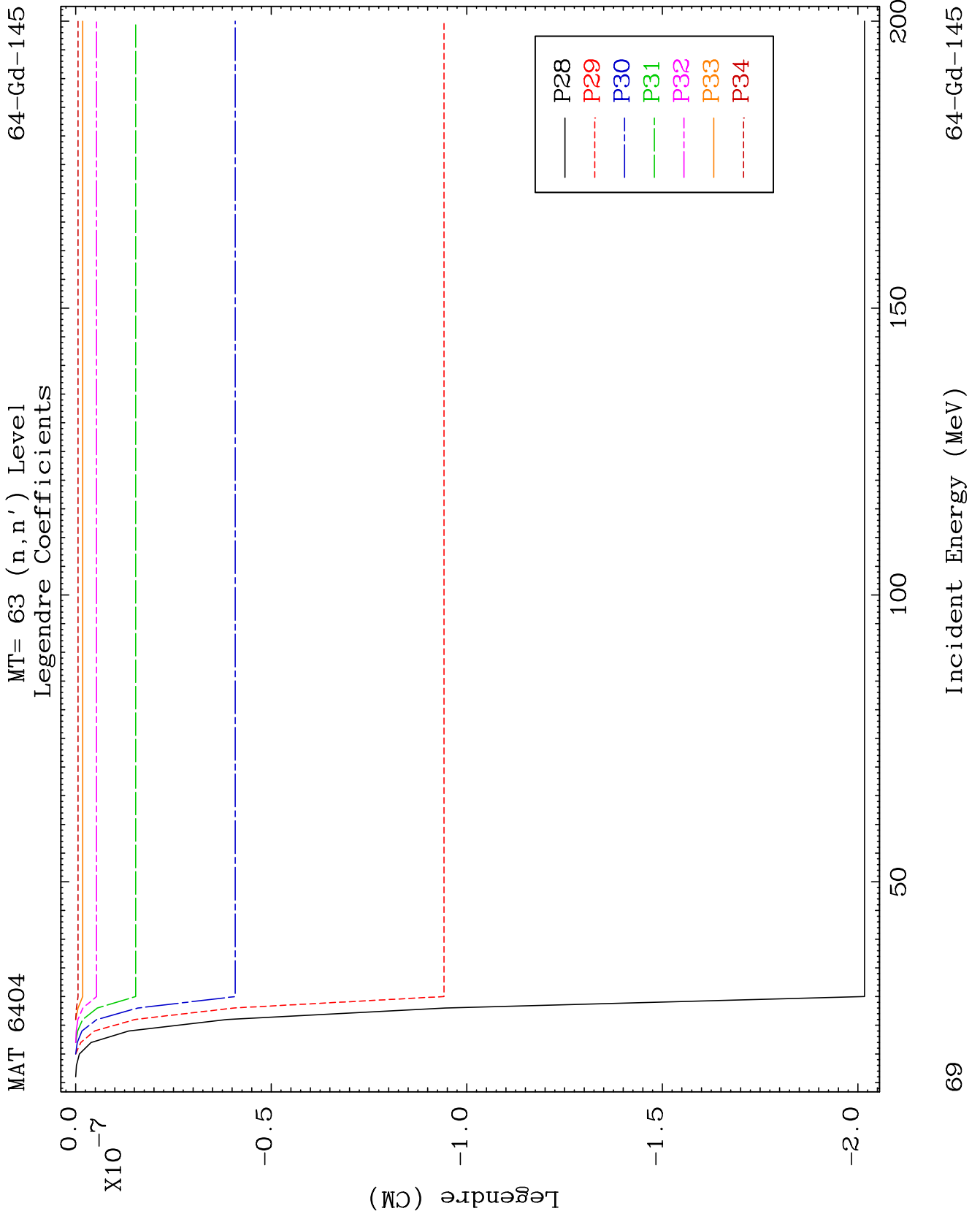
67

Incident Energy (MeV)

64-Gd-145

MAT 6404 MT= 63 (n,n') Level Legendre Coefficients 64-Gd-145

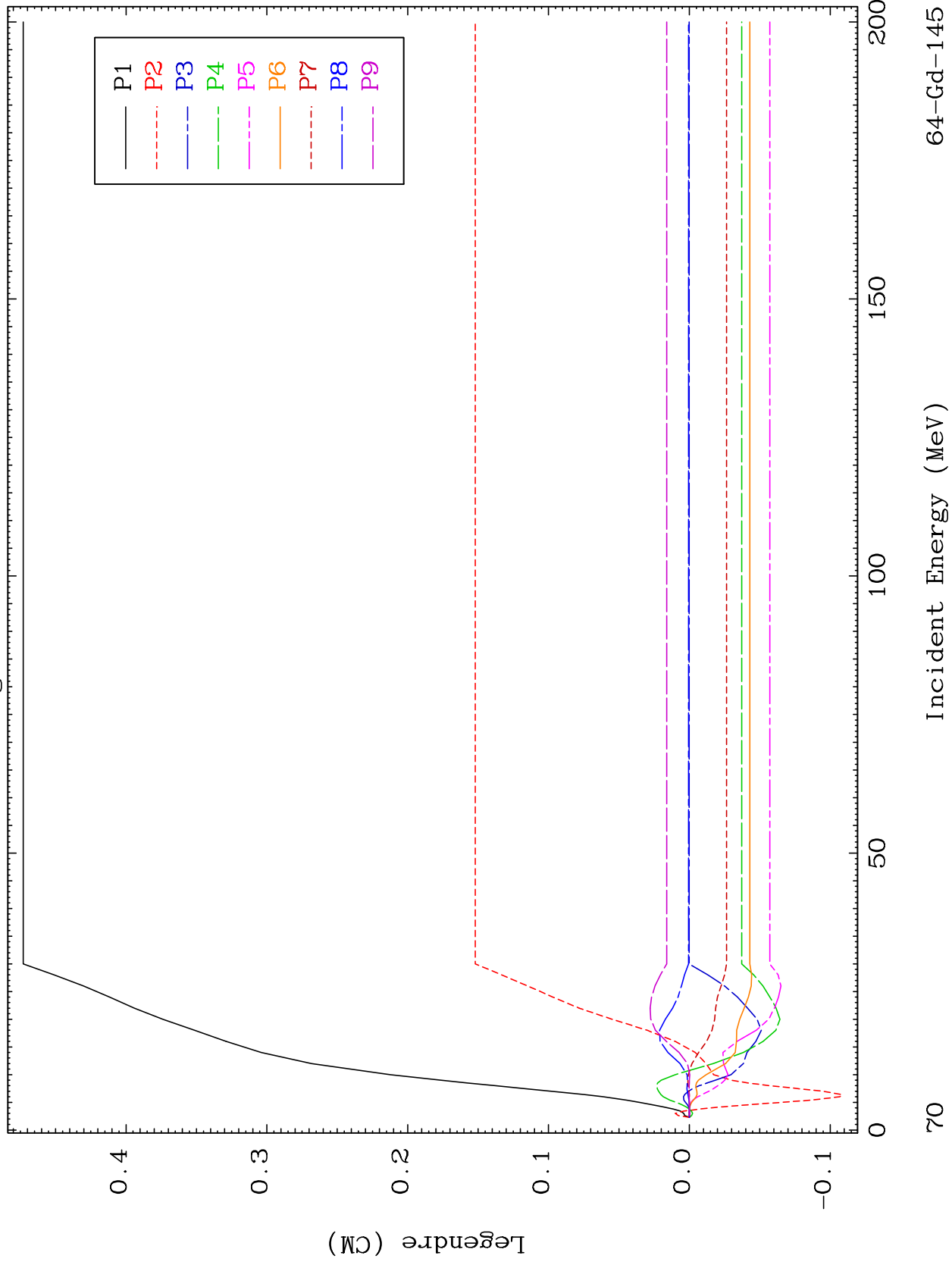




MAT 6404

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

64-Gd-145



64-Gd-145

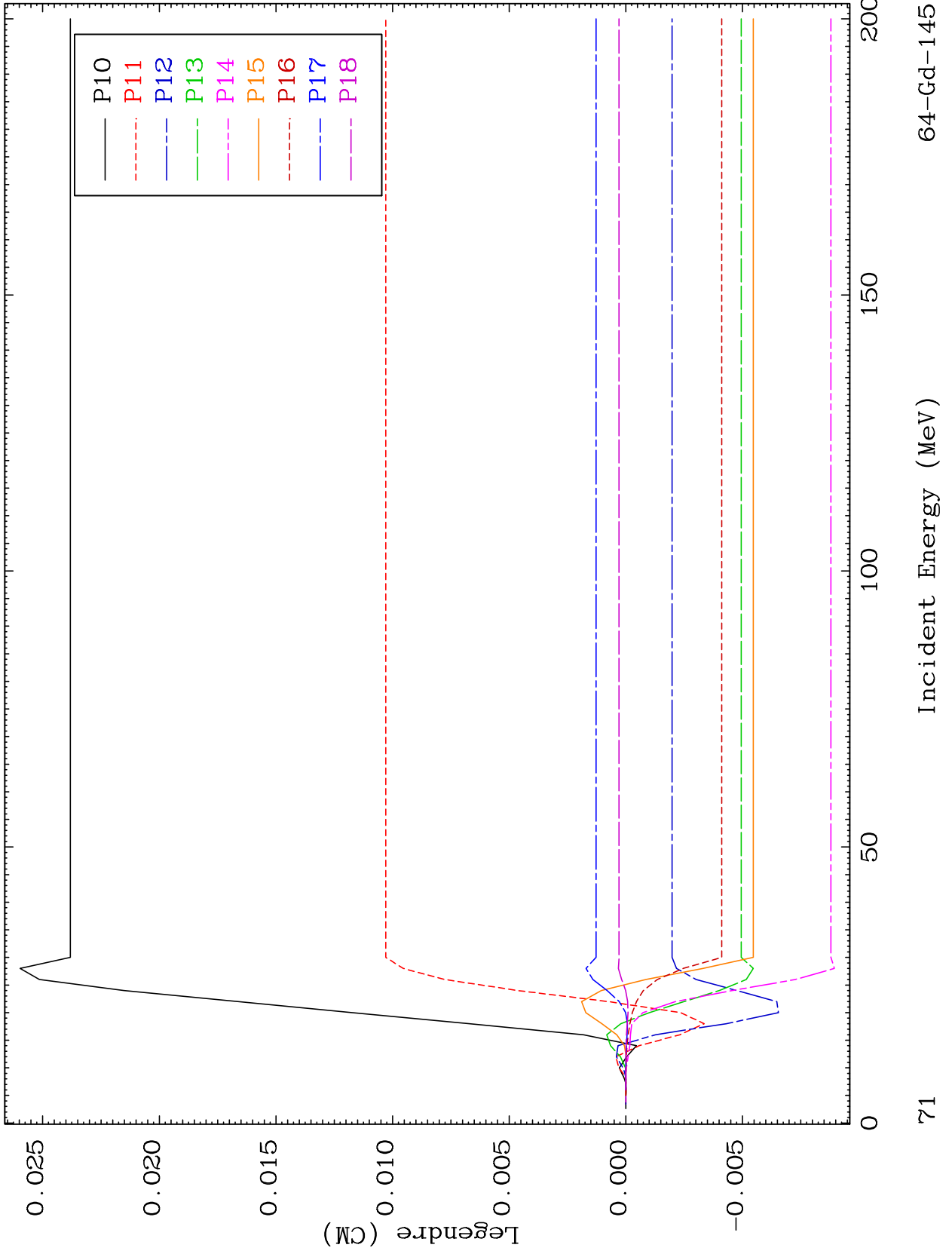
Incident Energy (MeV)

70

MAT 6404

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

64-Gd-145



71

Incident Energy (MeV)

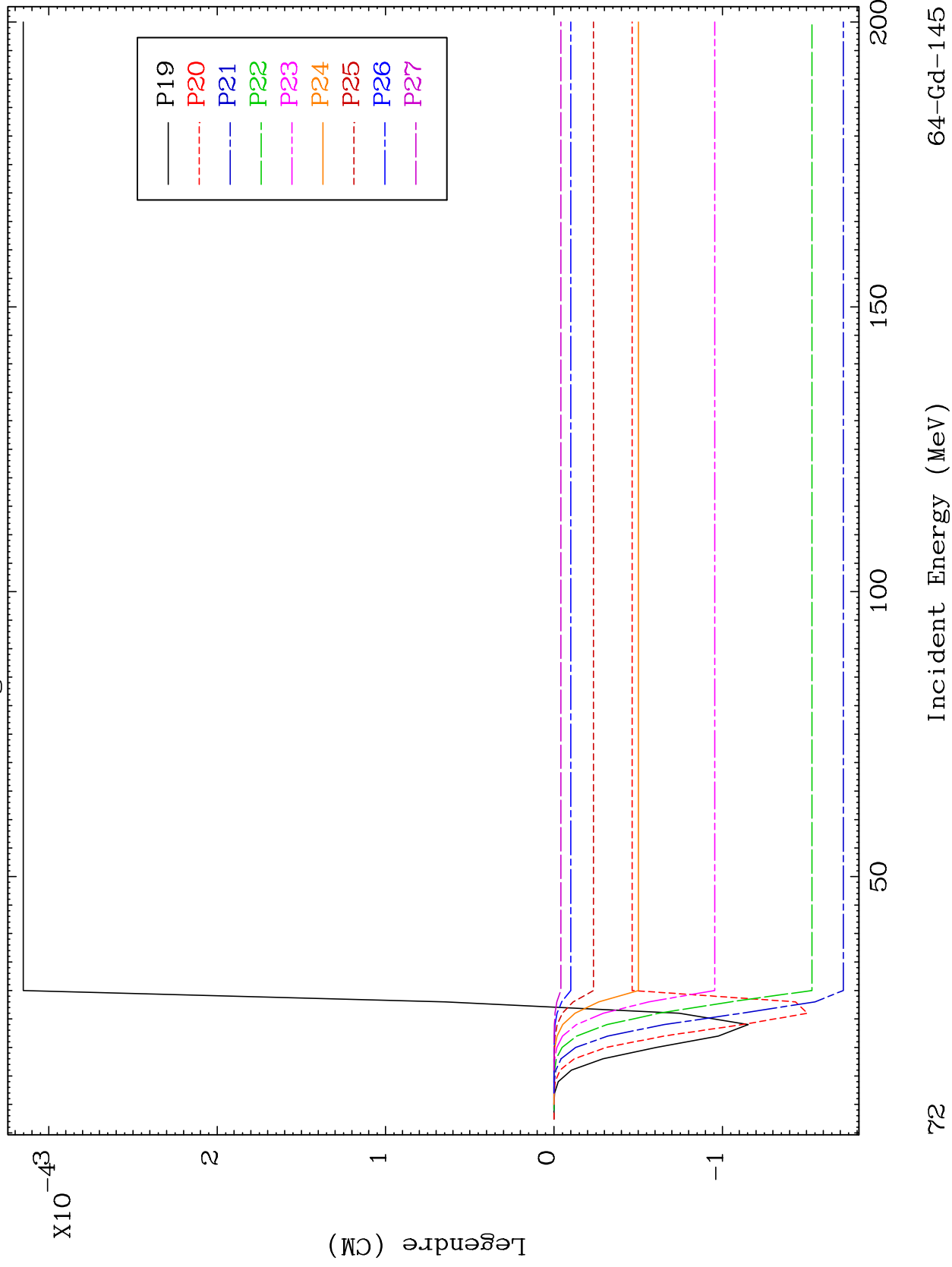
64-Gd-145

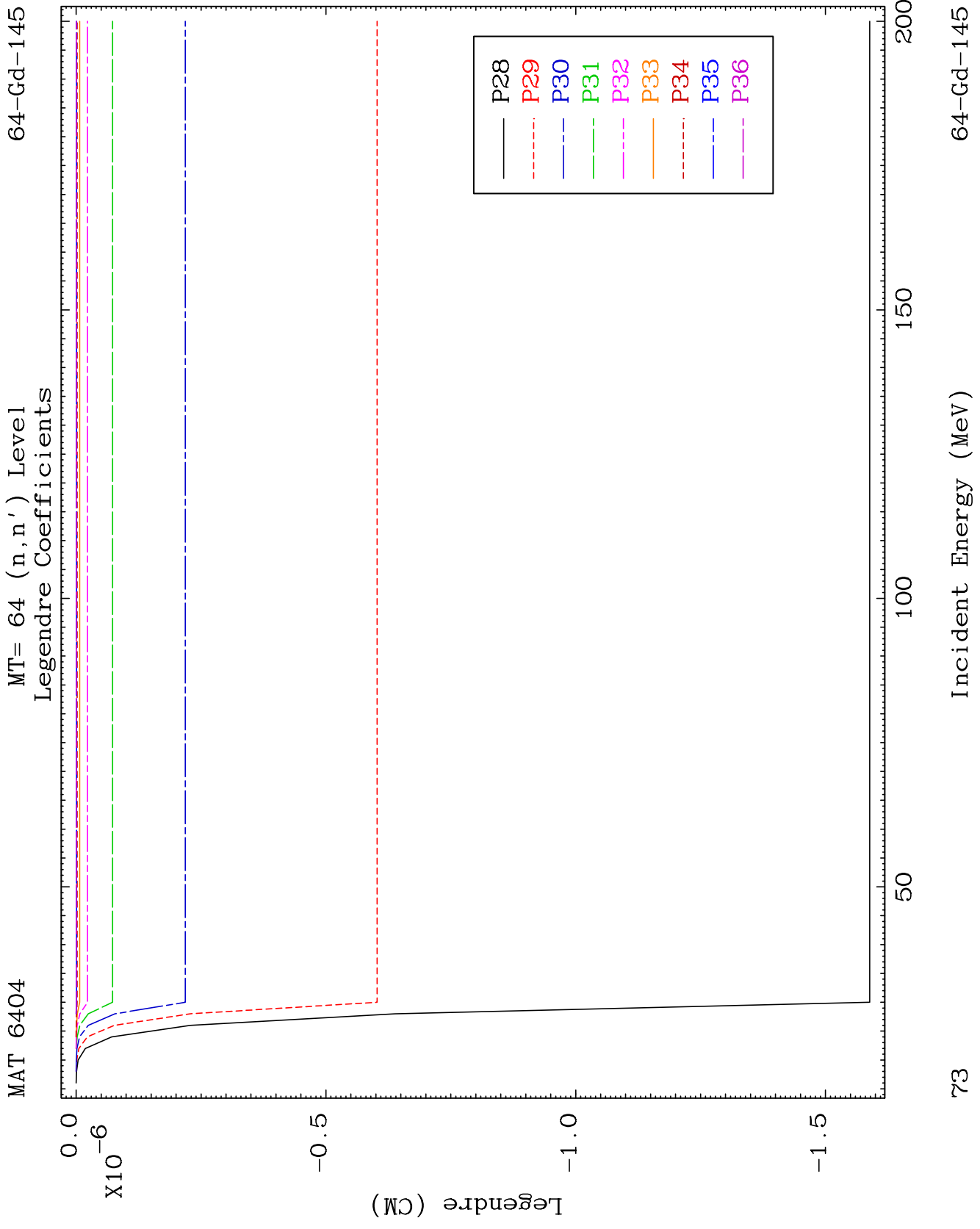


MAT 6404

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

64-Gd-145

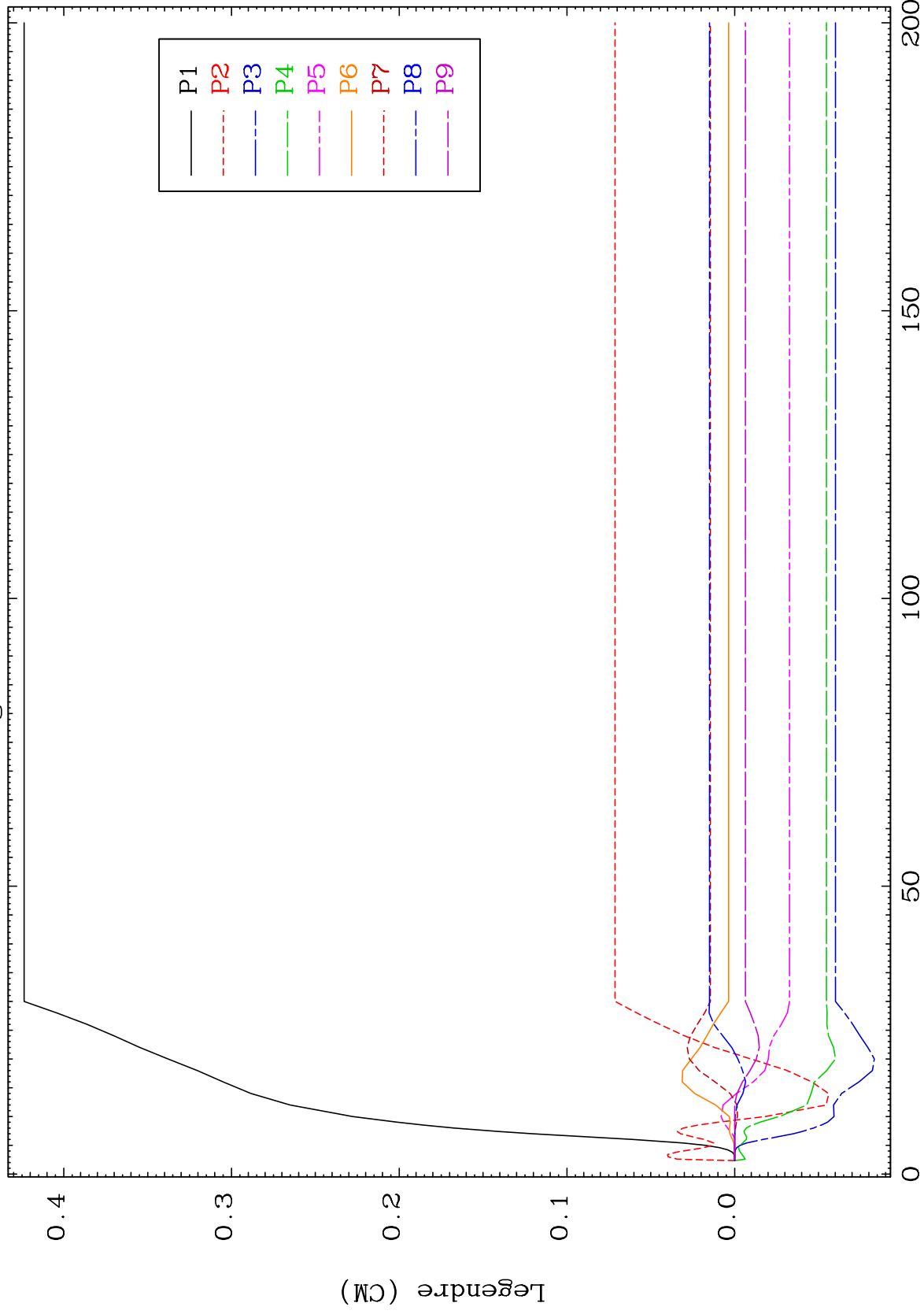




MAT 6404

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

64-Gd-145



74

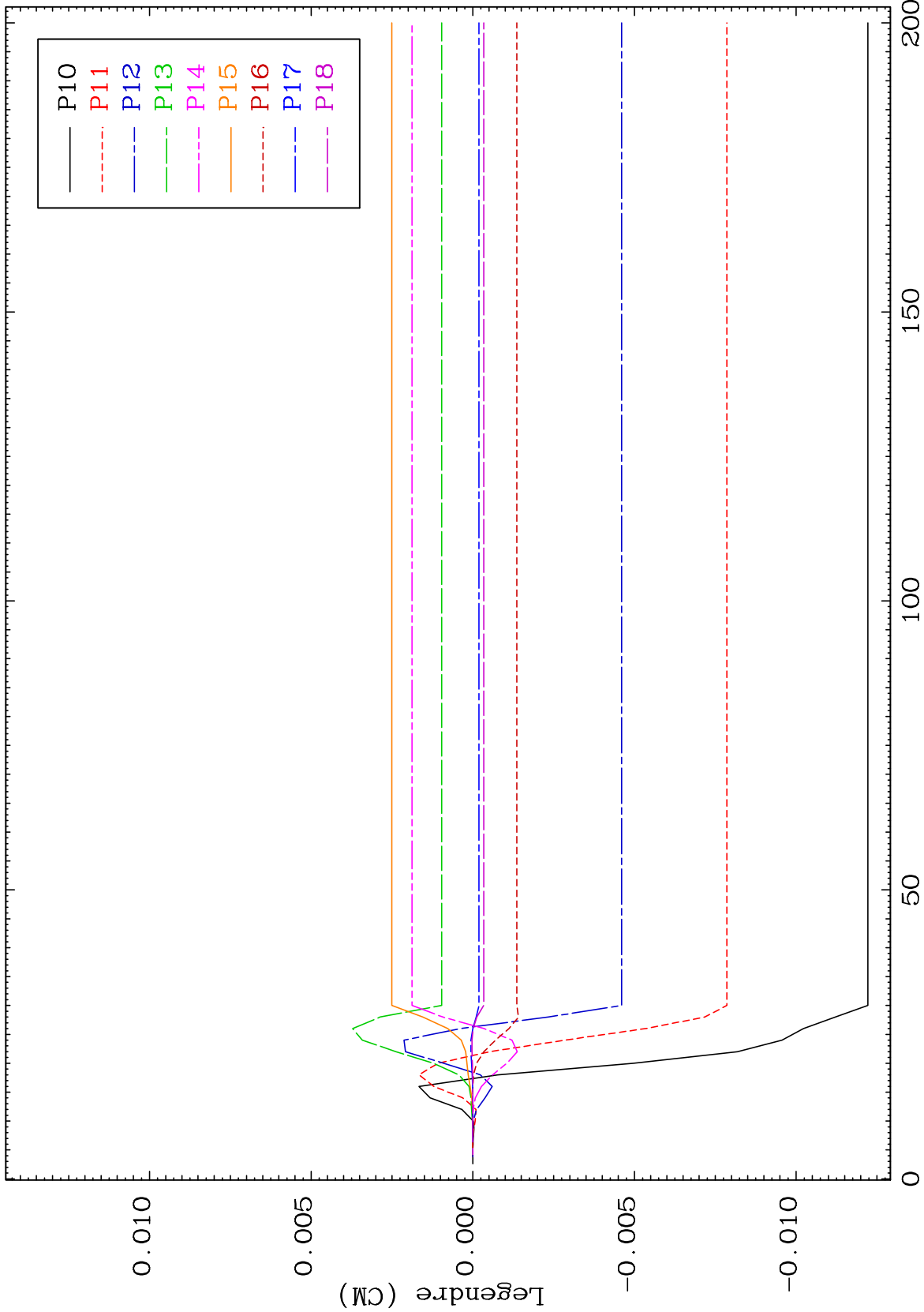
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



75

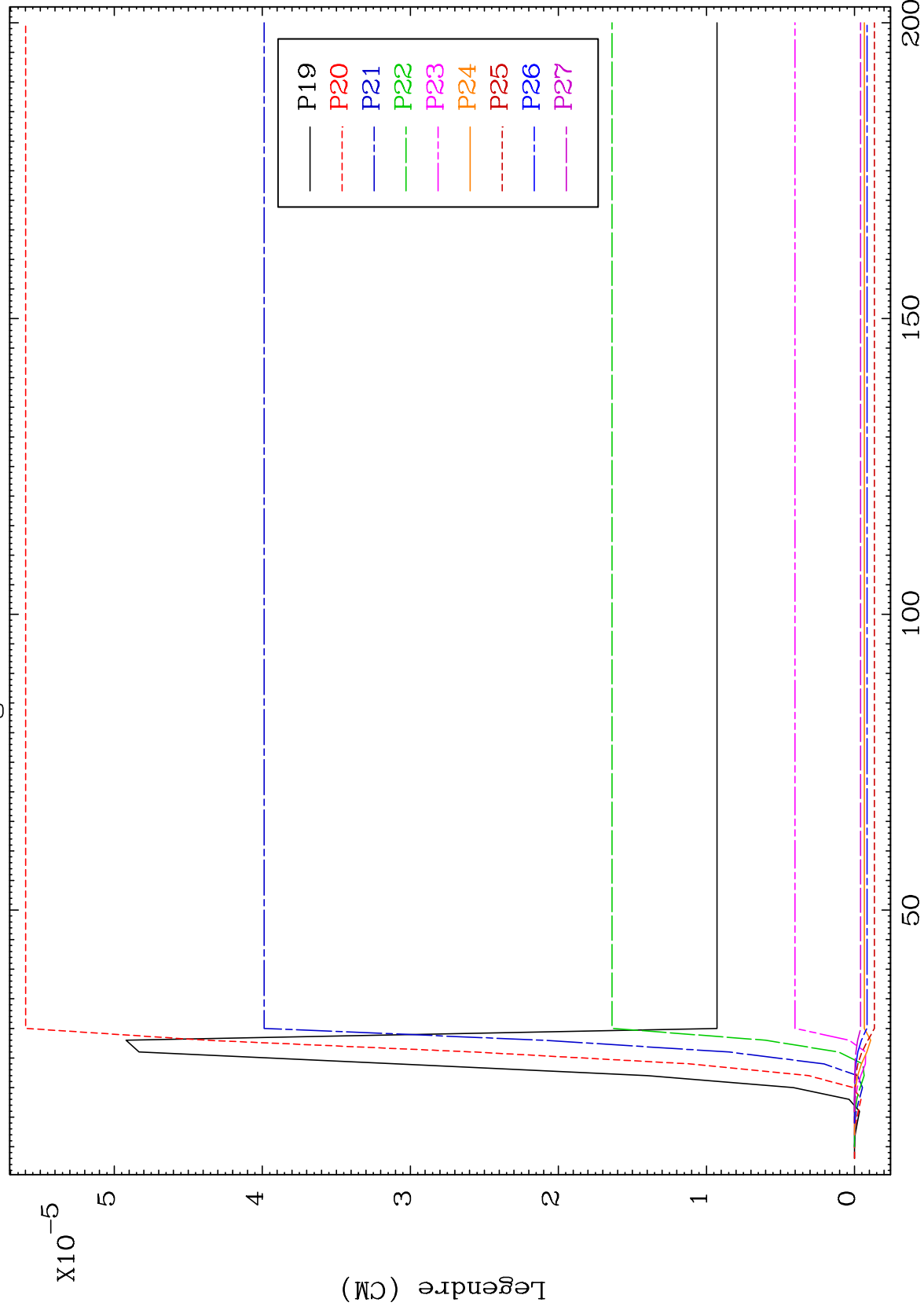
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

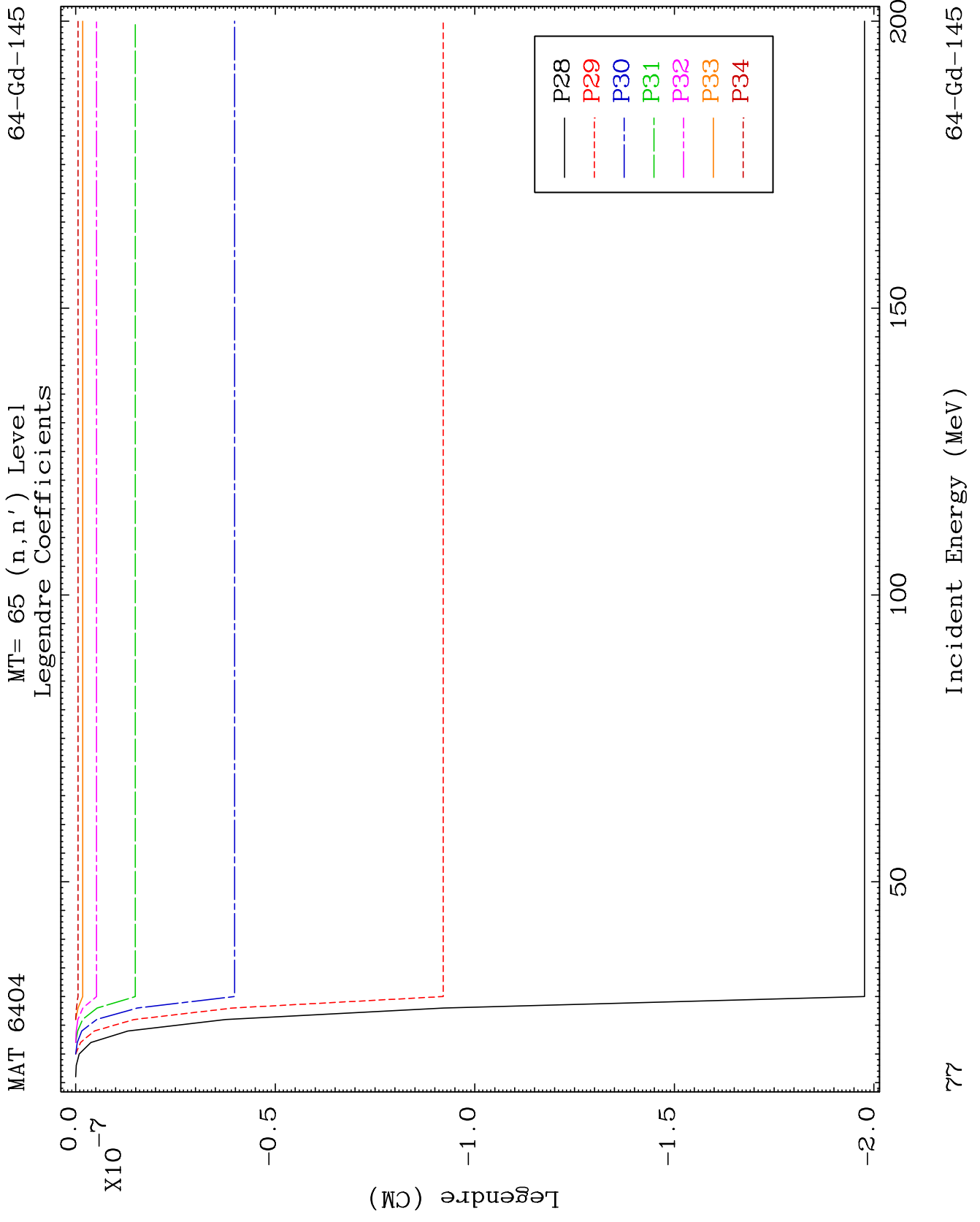
64-Gd-145



64-Gd-145

Incident Energy (MeV)

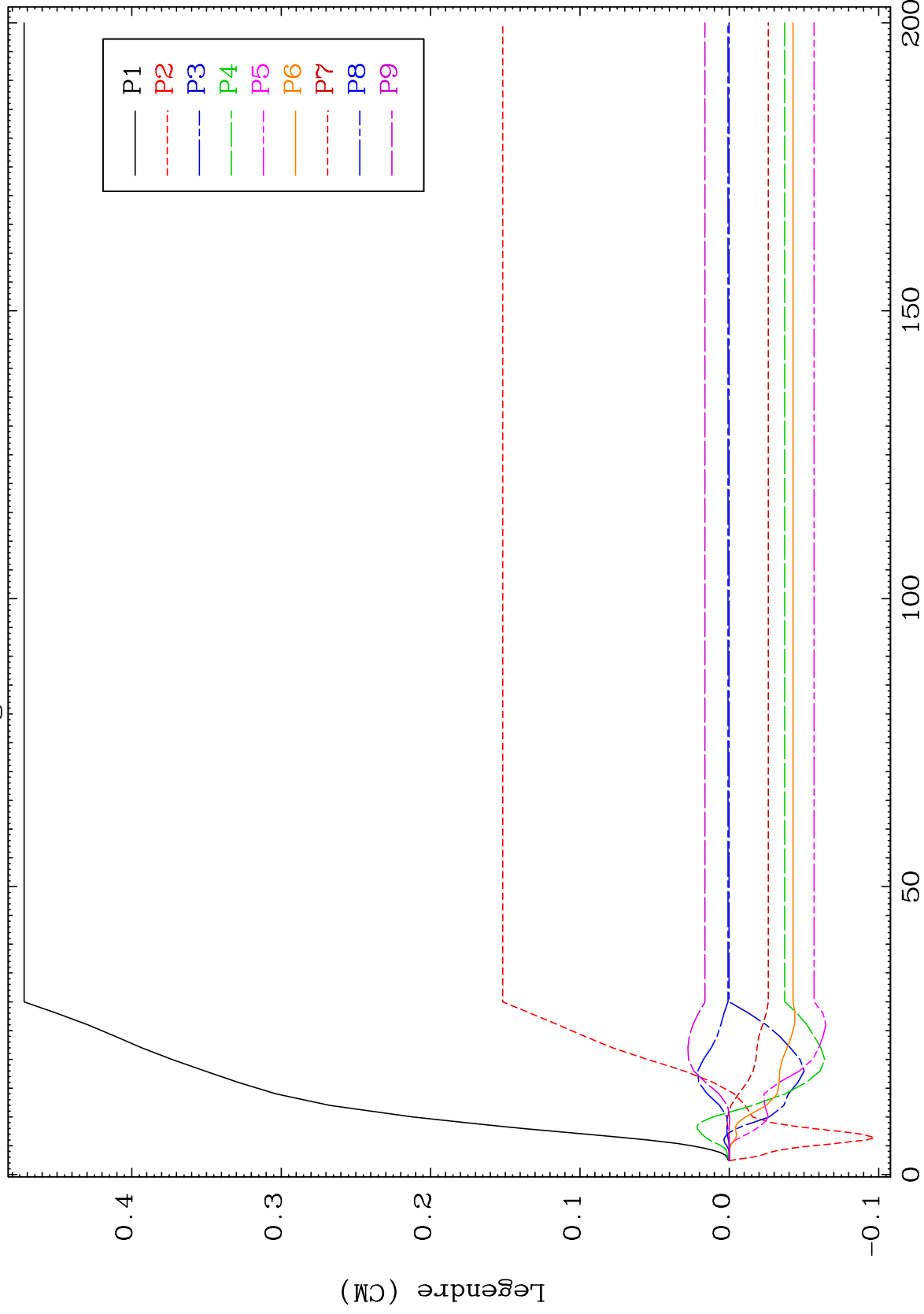
76



MAT 6404

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

64-Gd-145



78

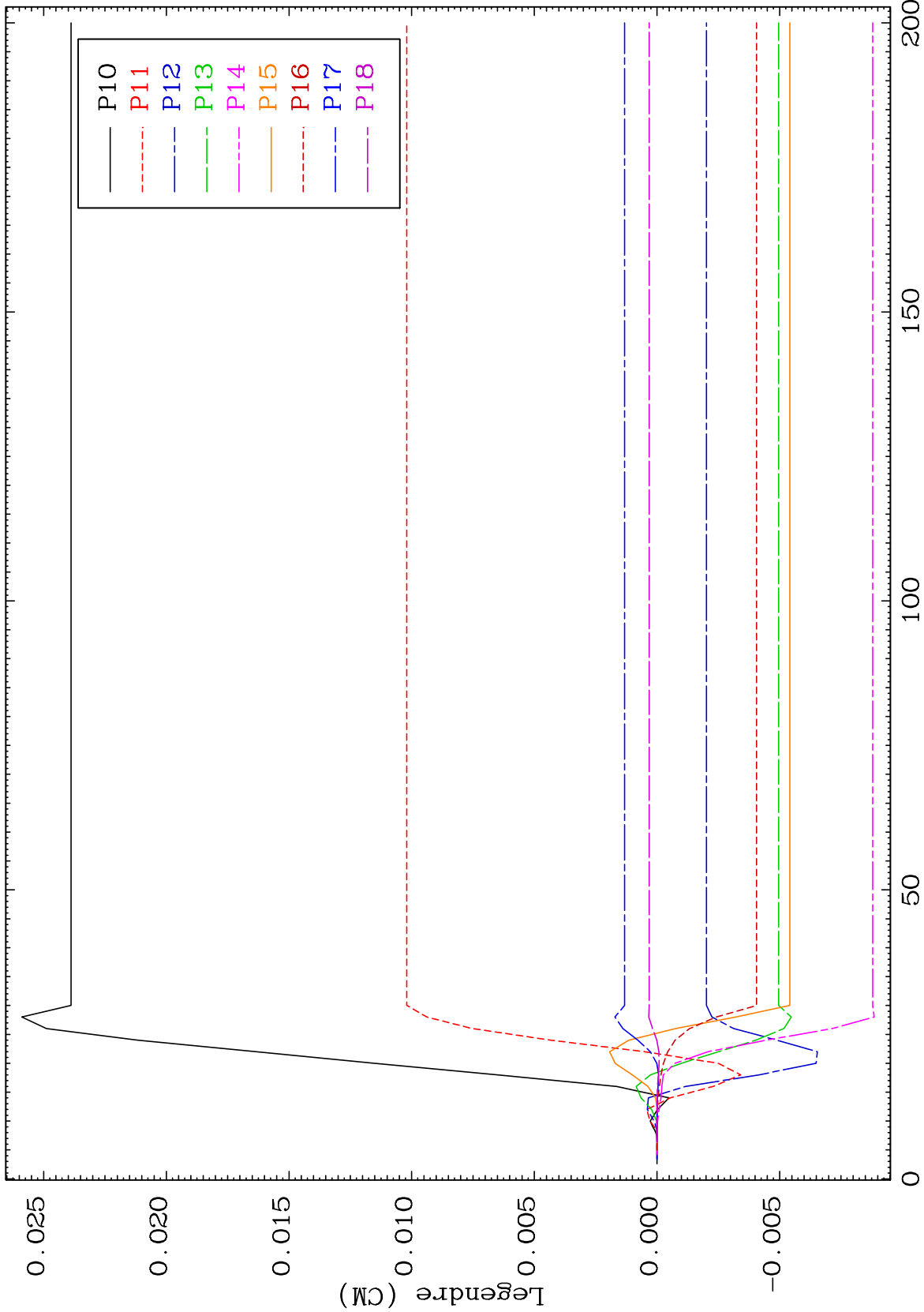
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



79

Incident Energy (MeV)

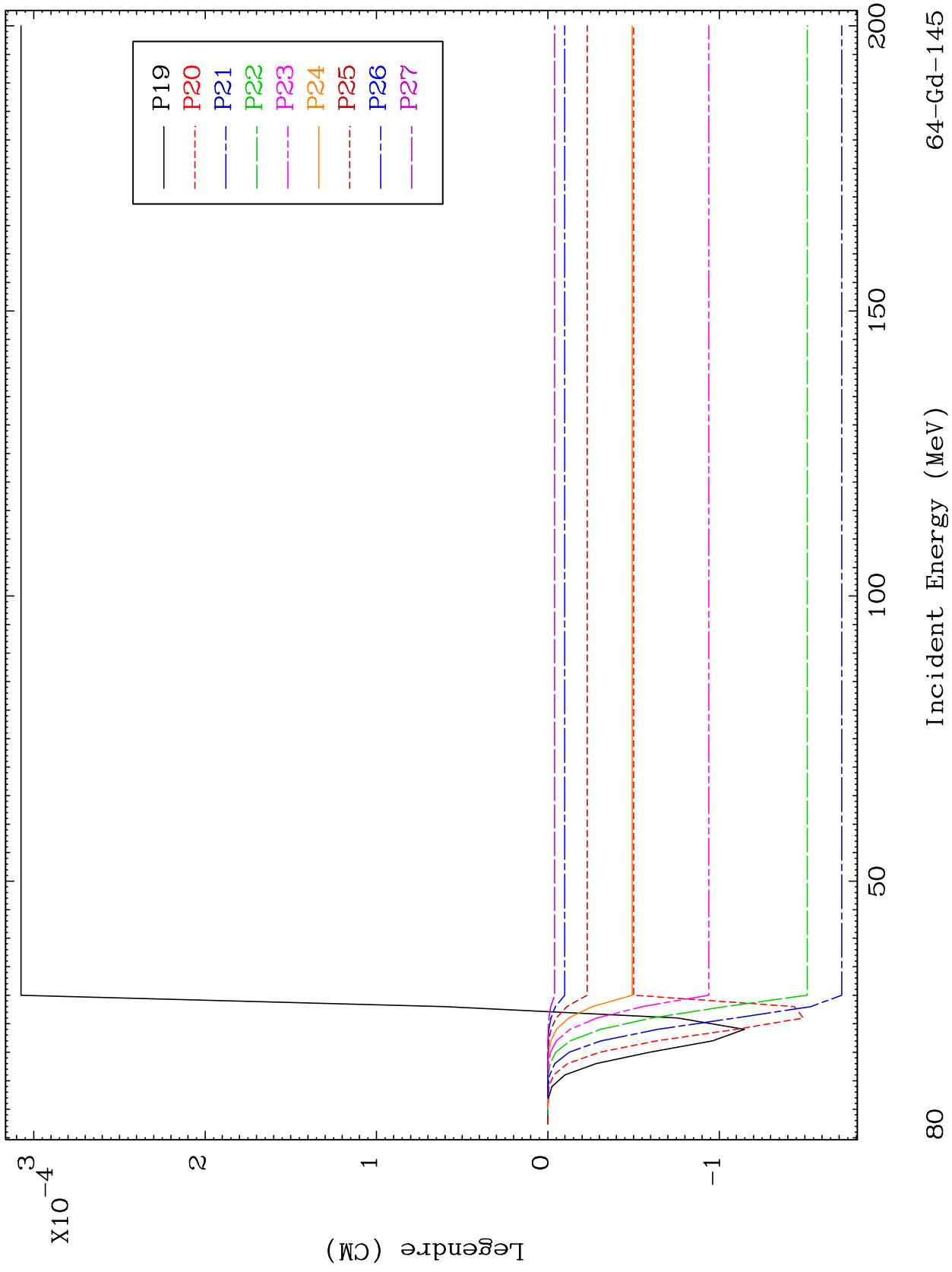
64-Gd-145



MAT 6404

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

64-Gd-145

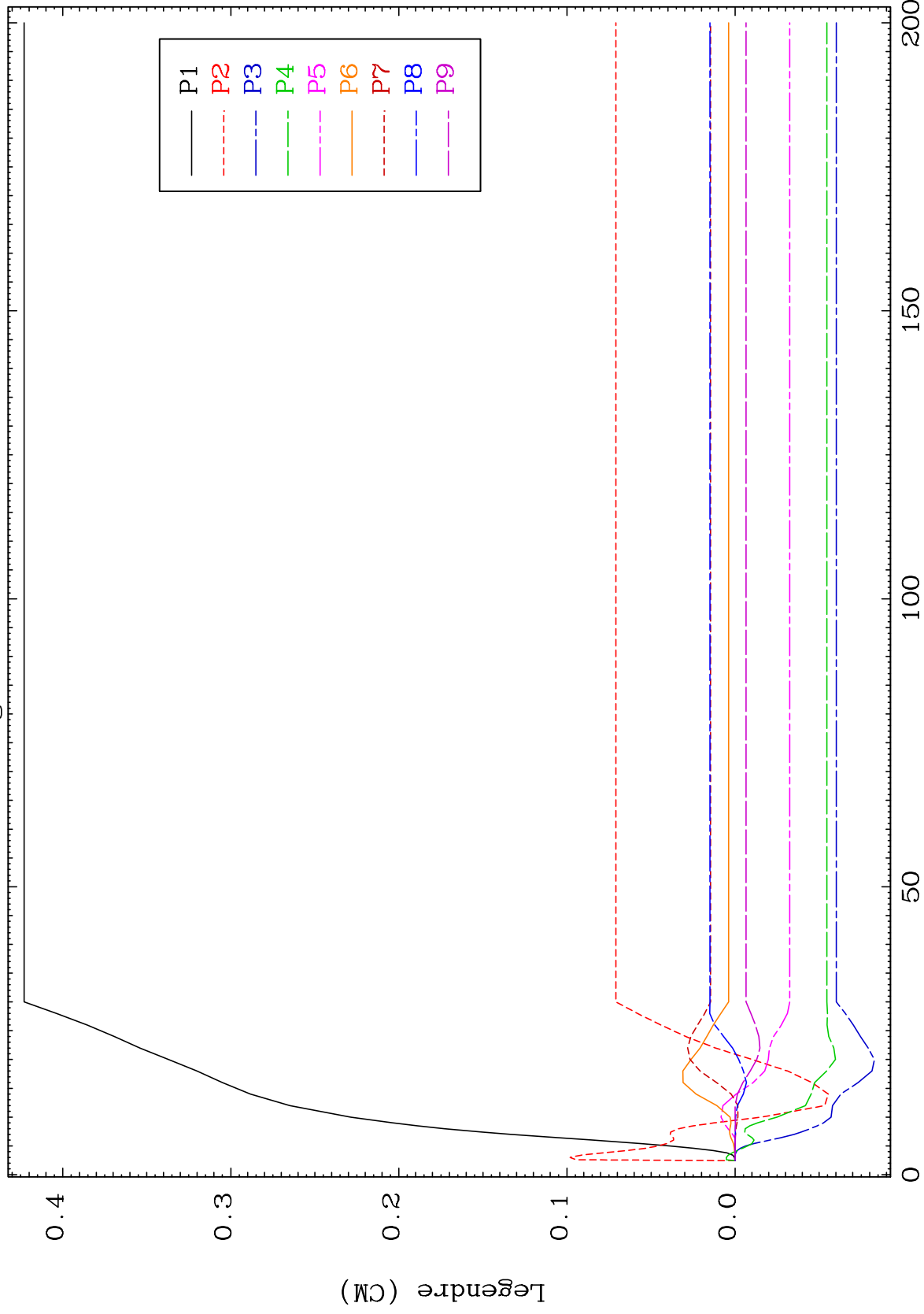




MAT 6404

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

64-Gd-145



82

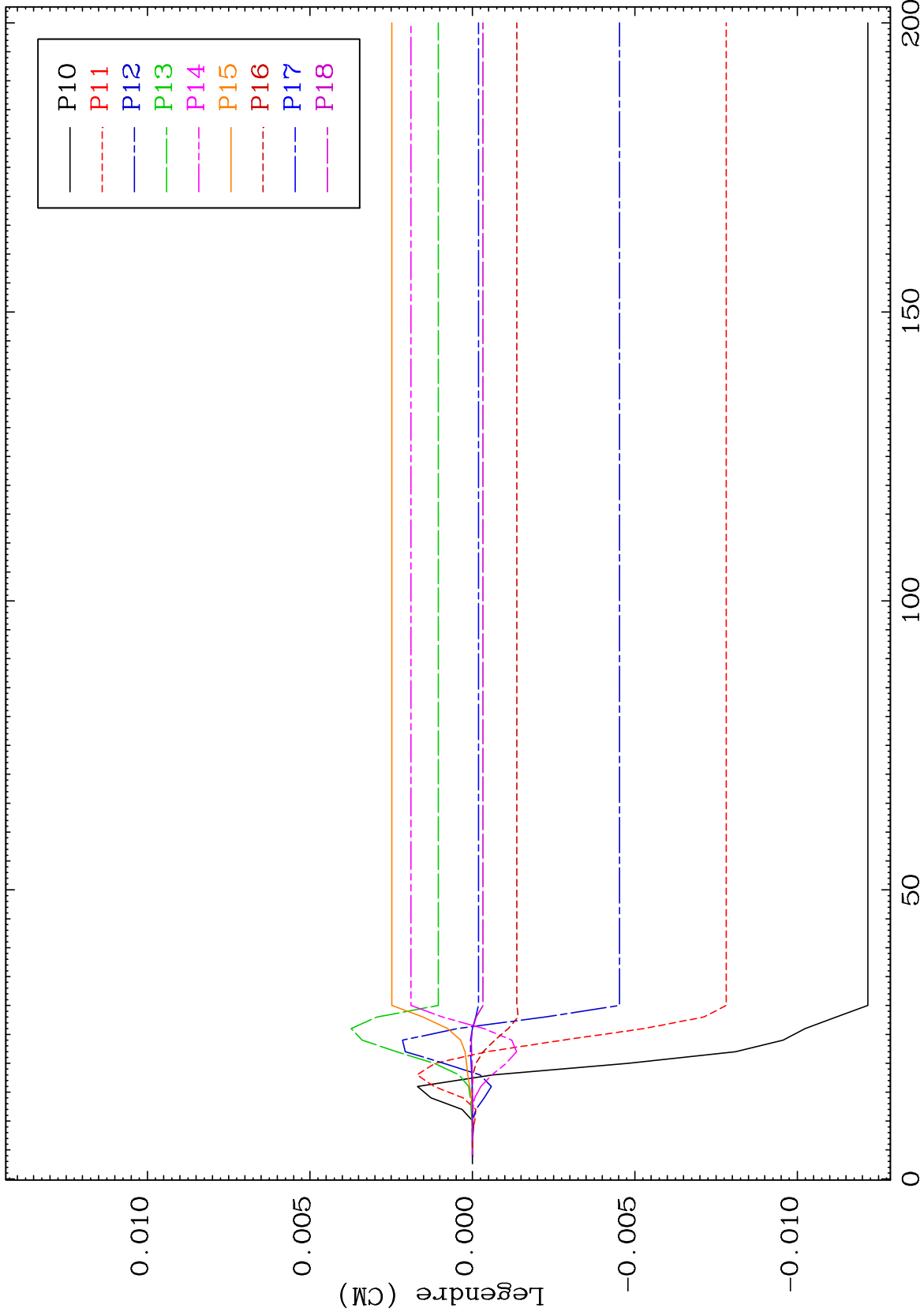
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



83

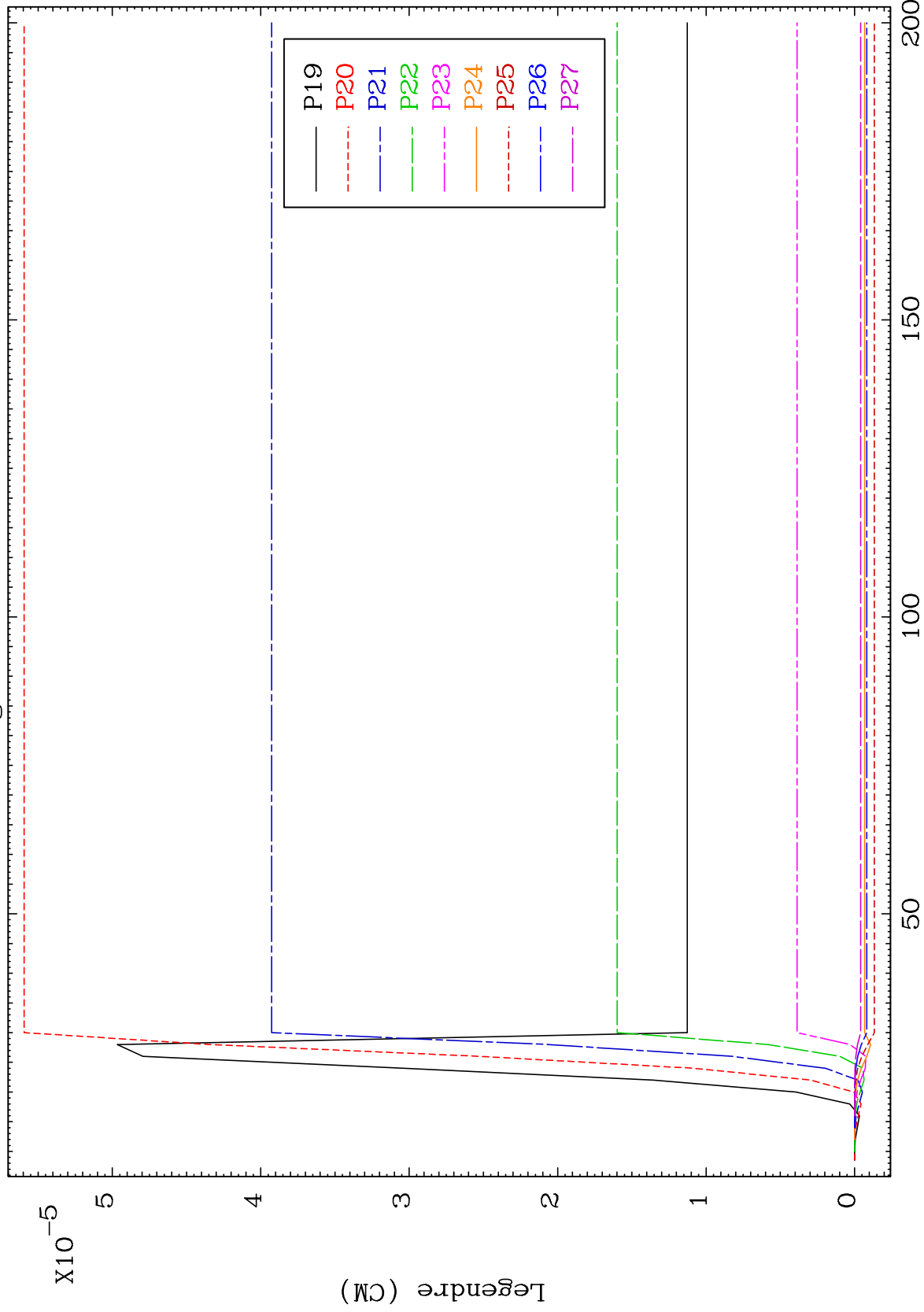
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

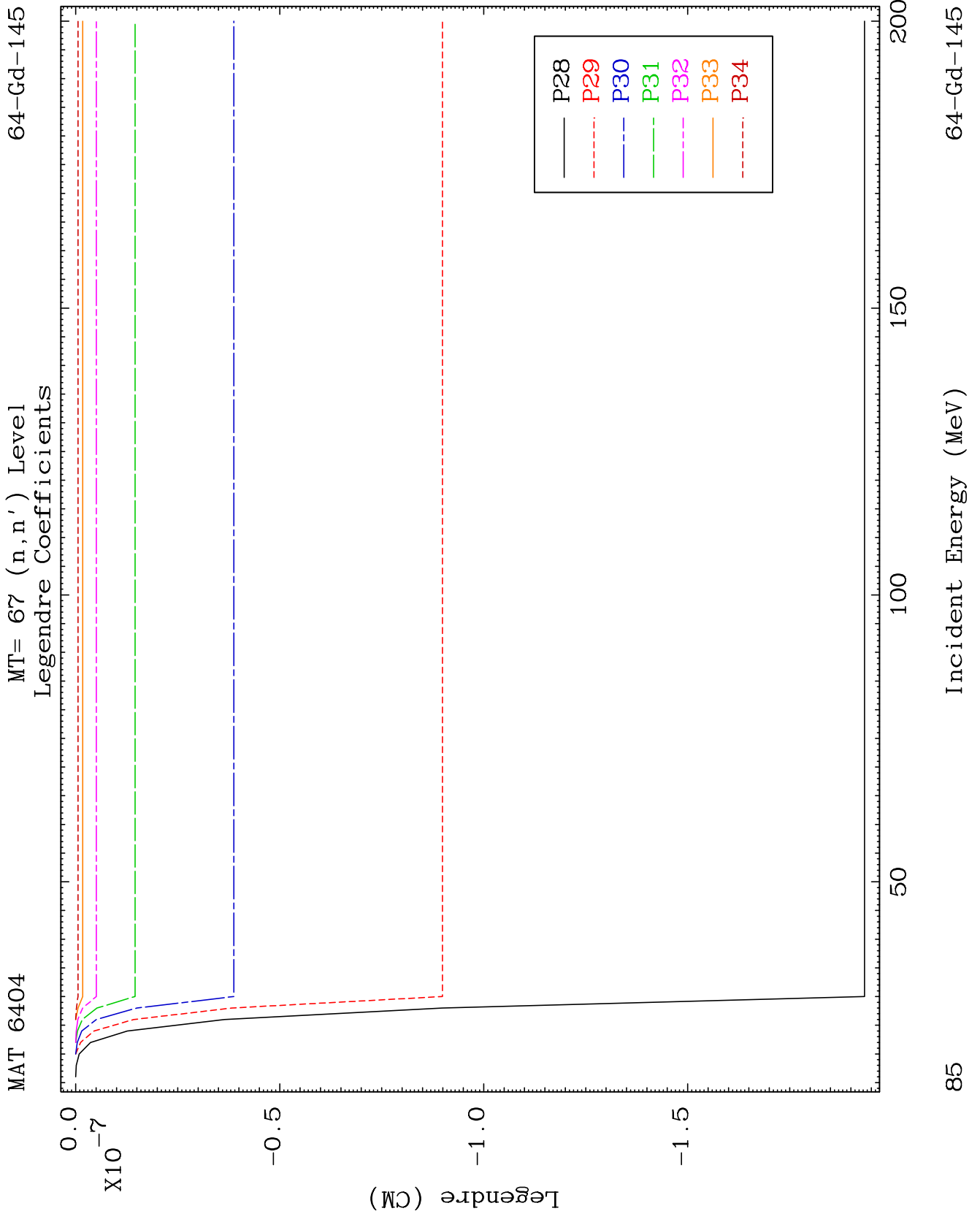
64-Gd-145



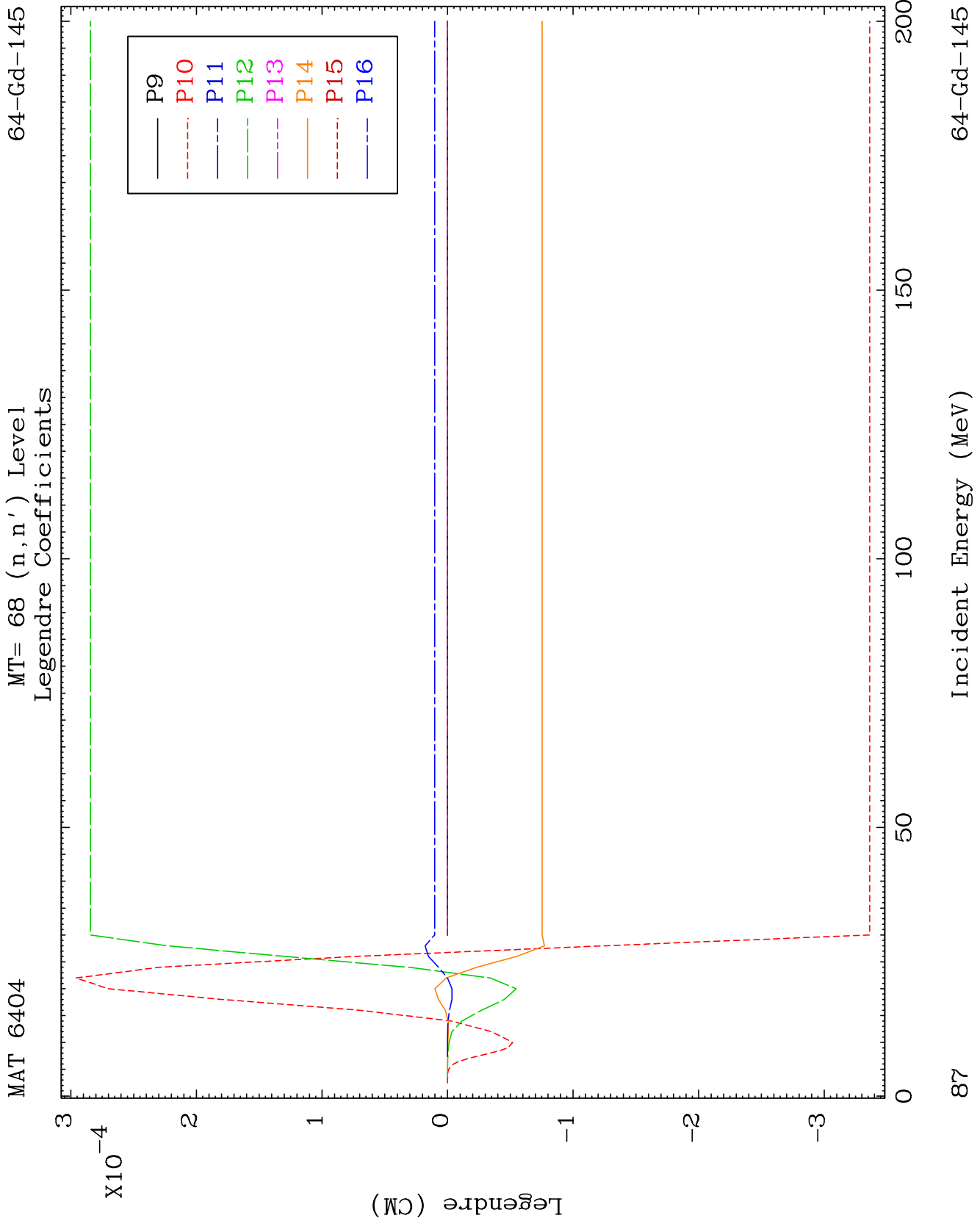
84

Incident Energy (MeV)

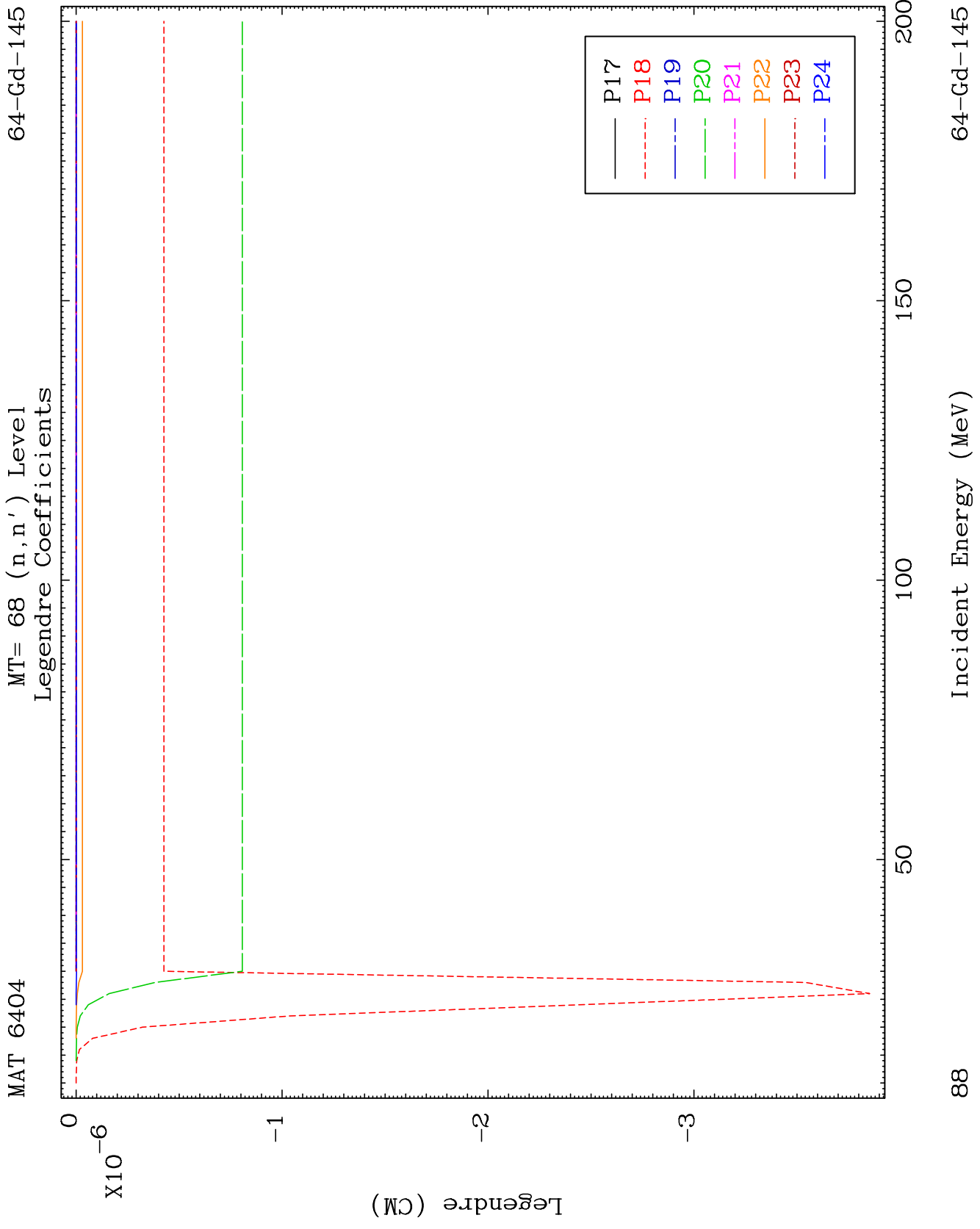
64-Gd-145







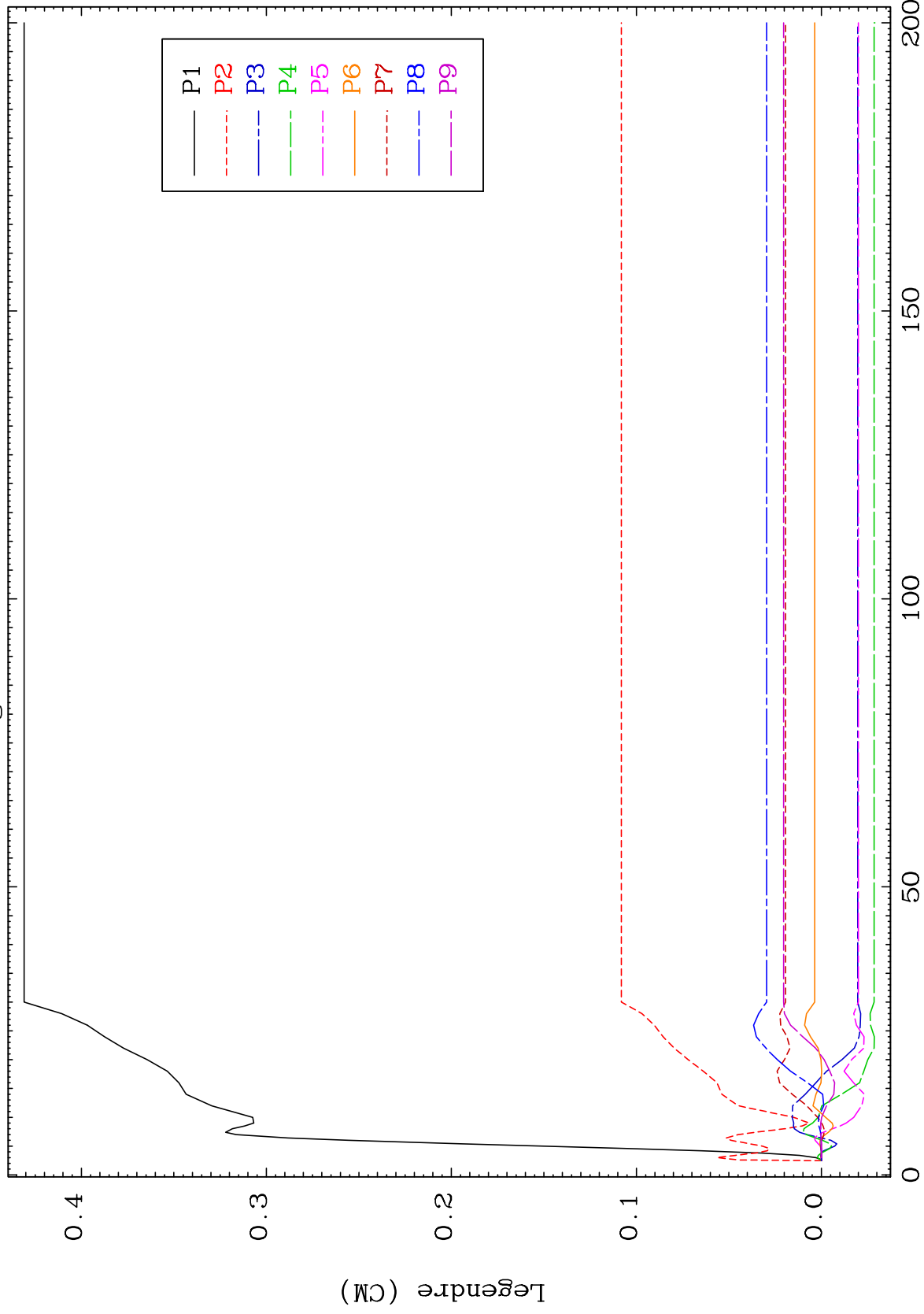




MAT 6404

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

64-Gd-145



89

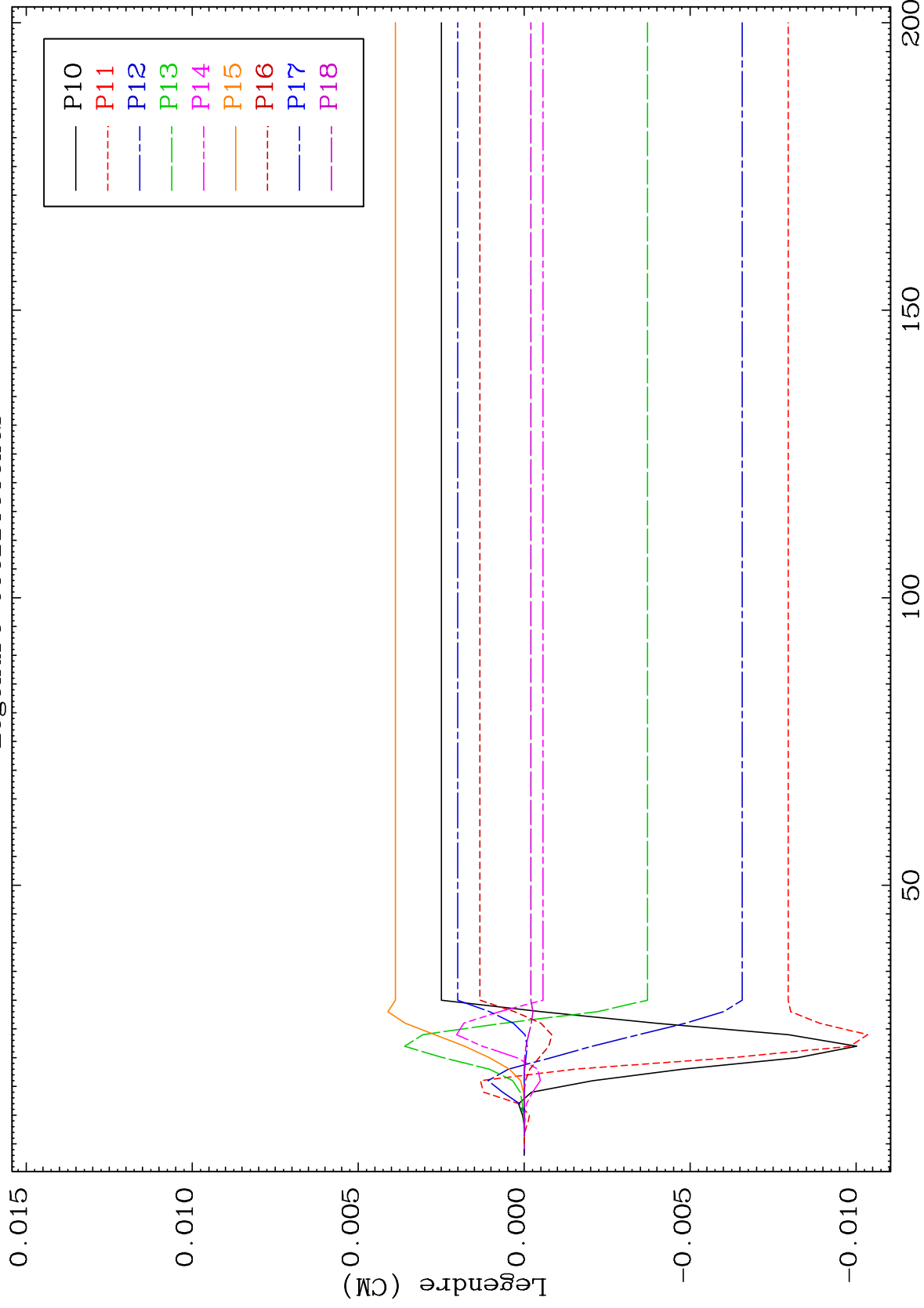
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

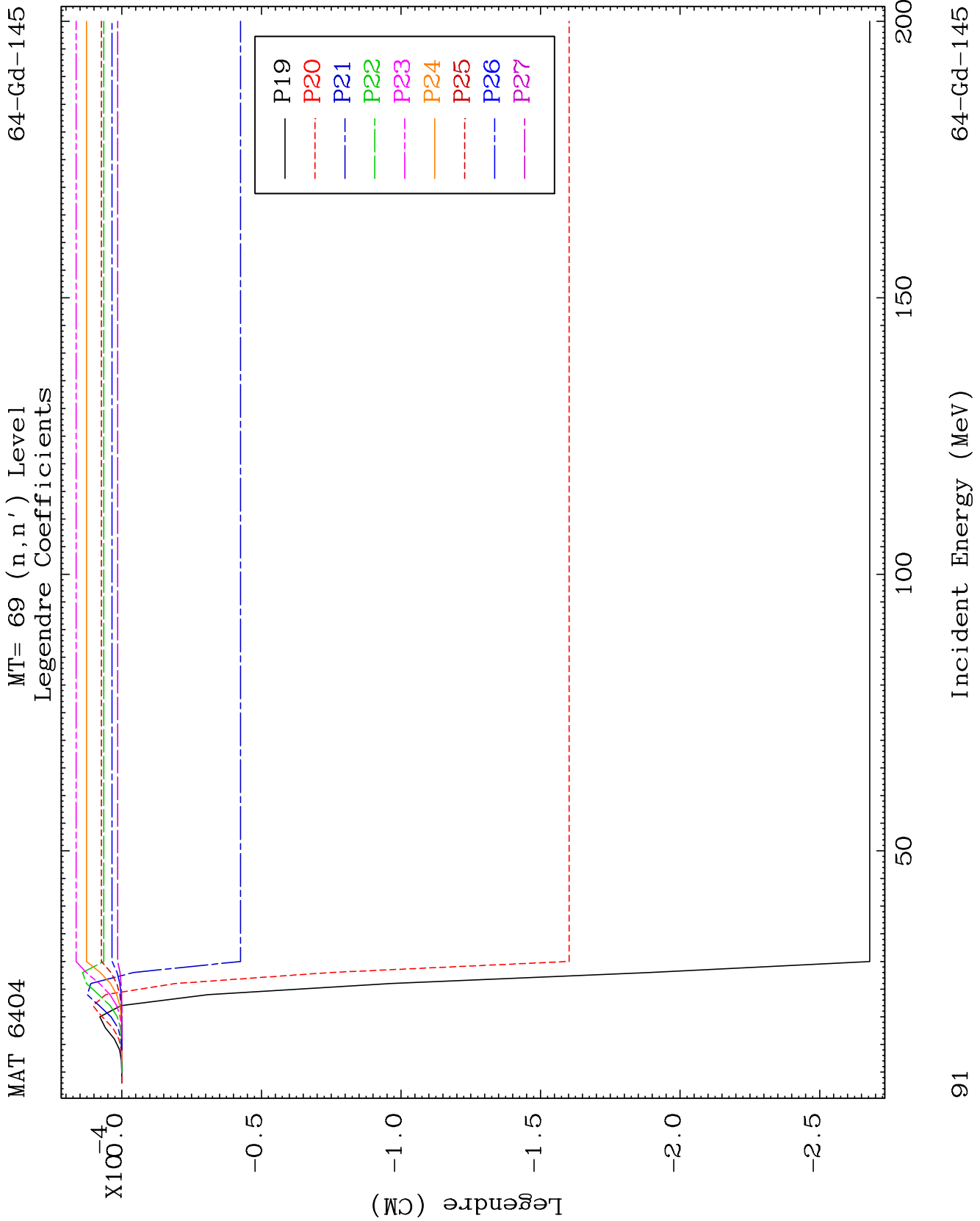
64-Gd-145



90

Incident Energy (MeV)

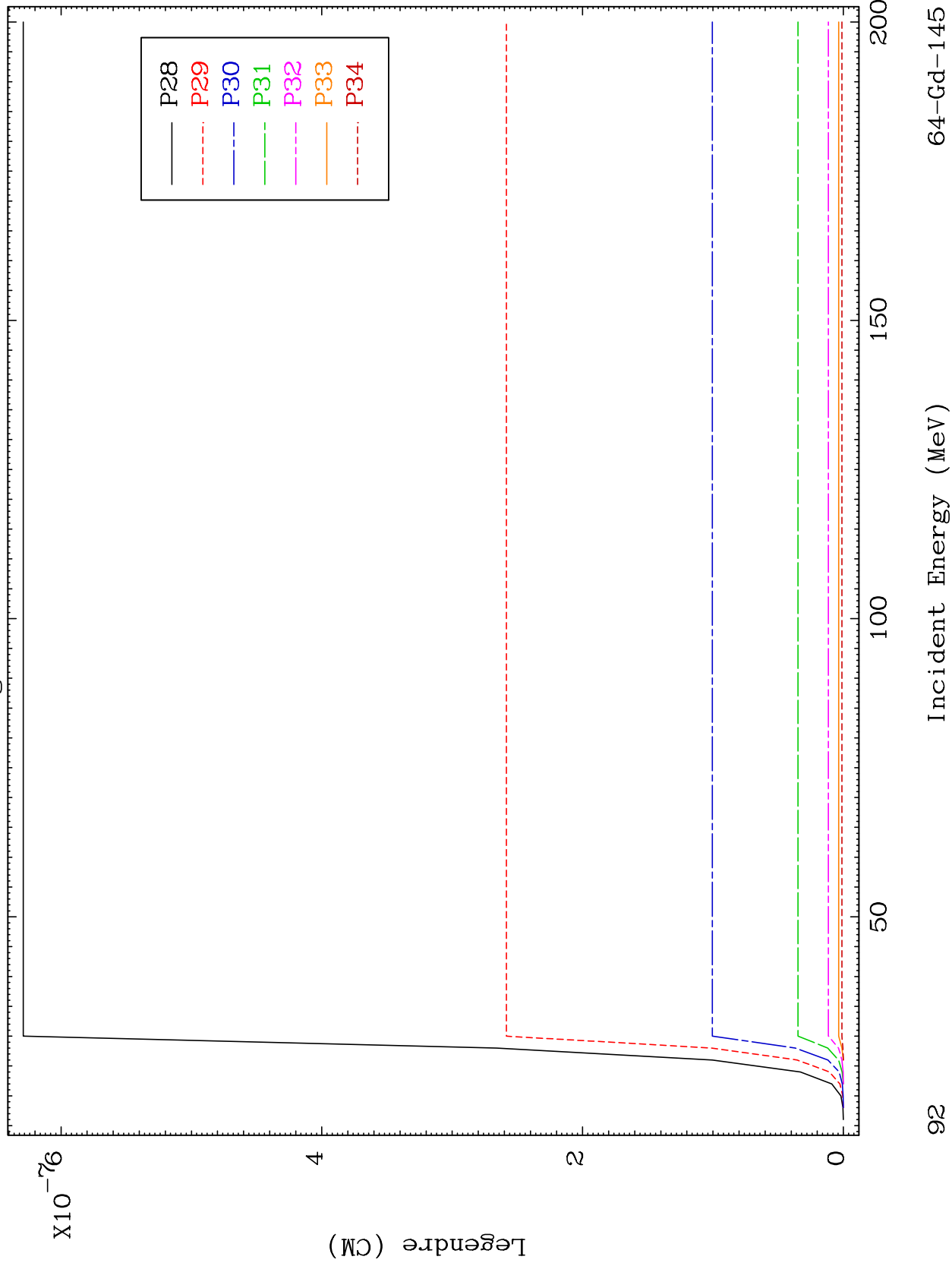
64-Gd-145

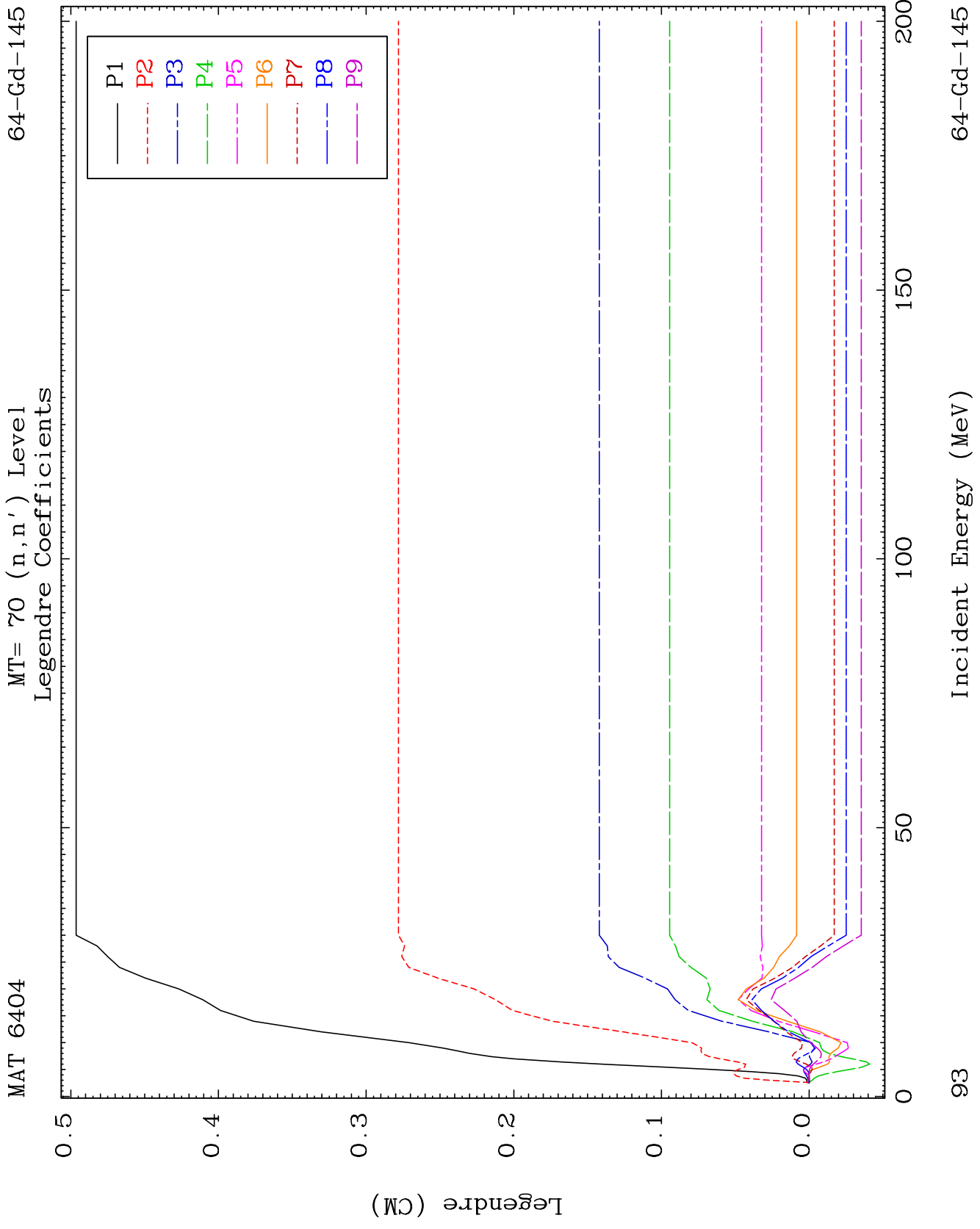


MAT 6404

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

64-Gd-145

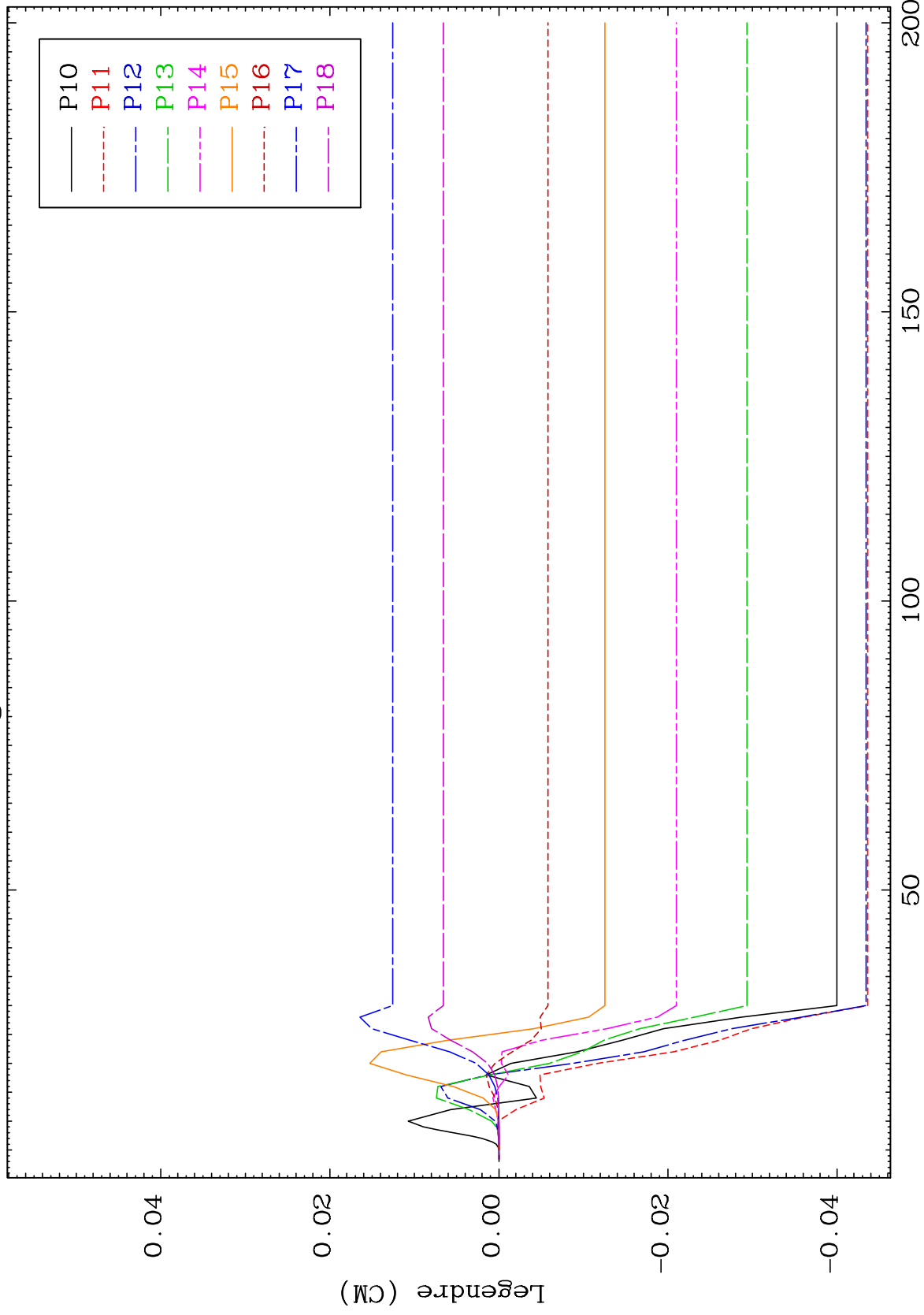




MAT 6404

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

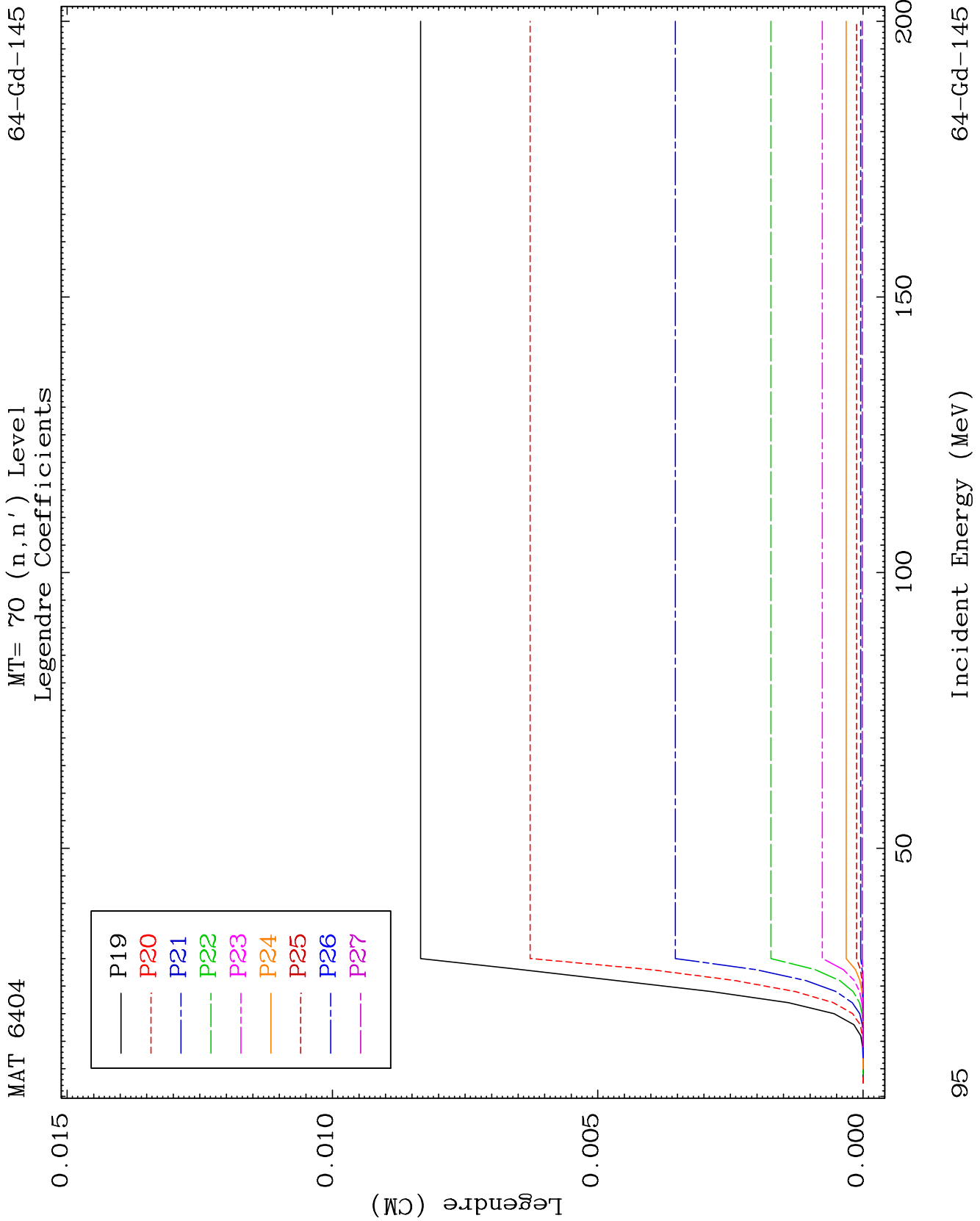
64-Gd-145



94

Incident Energy (MeV)

64-Gd-145

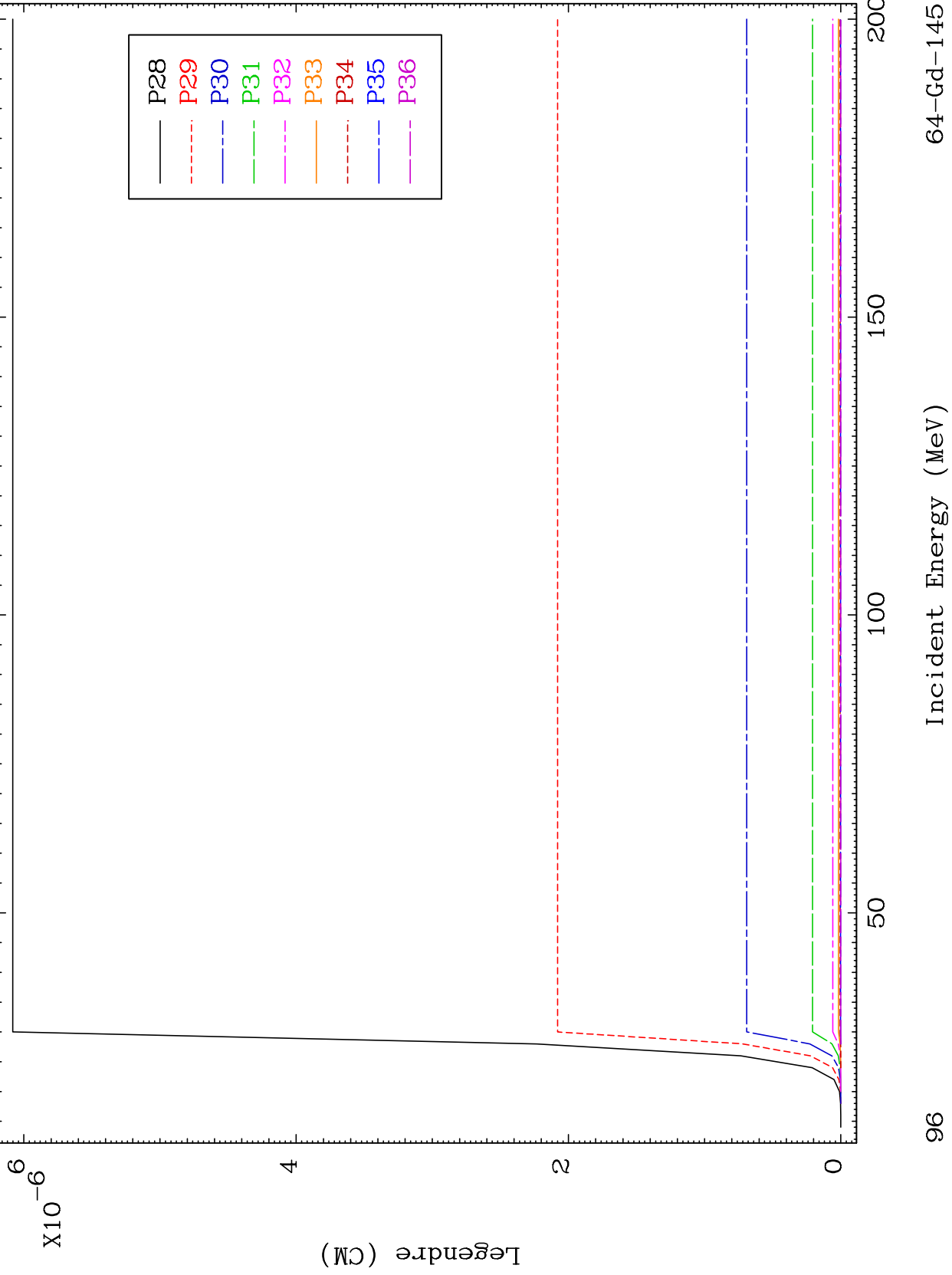




MAT 6404

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

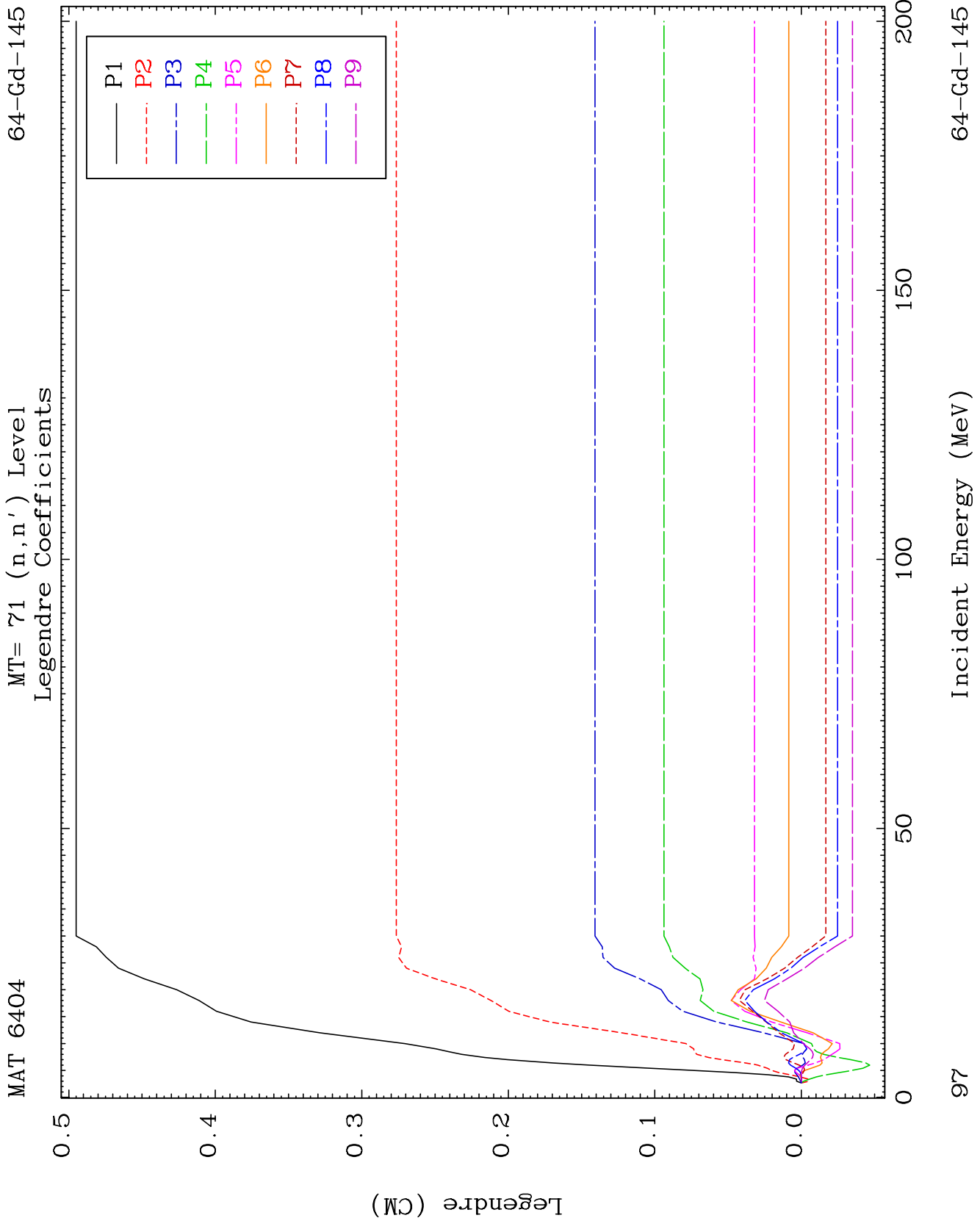
64-Gd-145



96

Incident Energy (MeV)

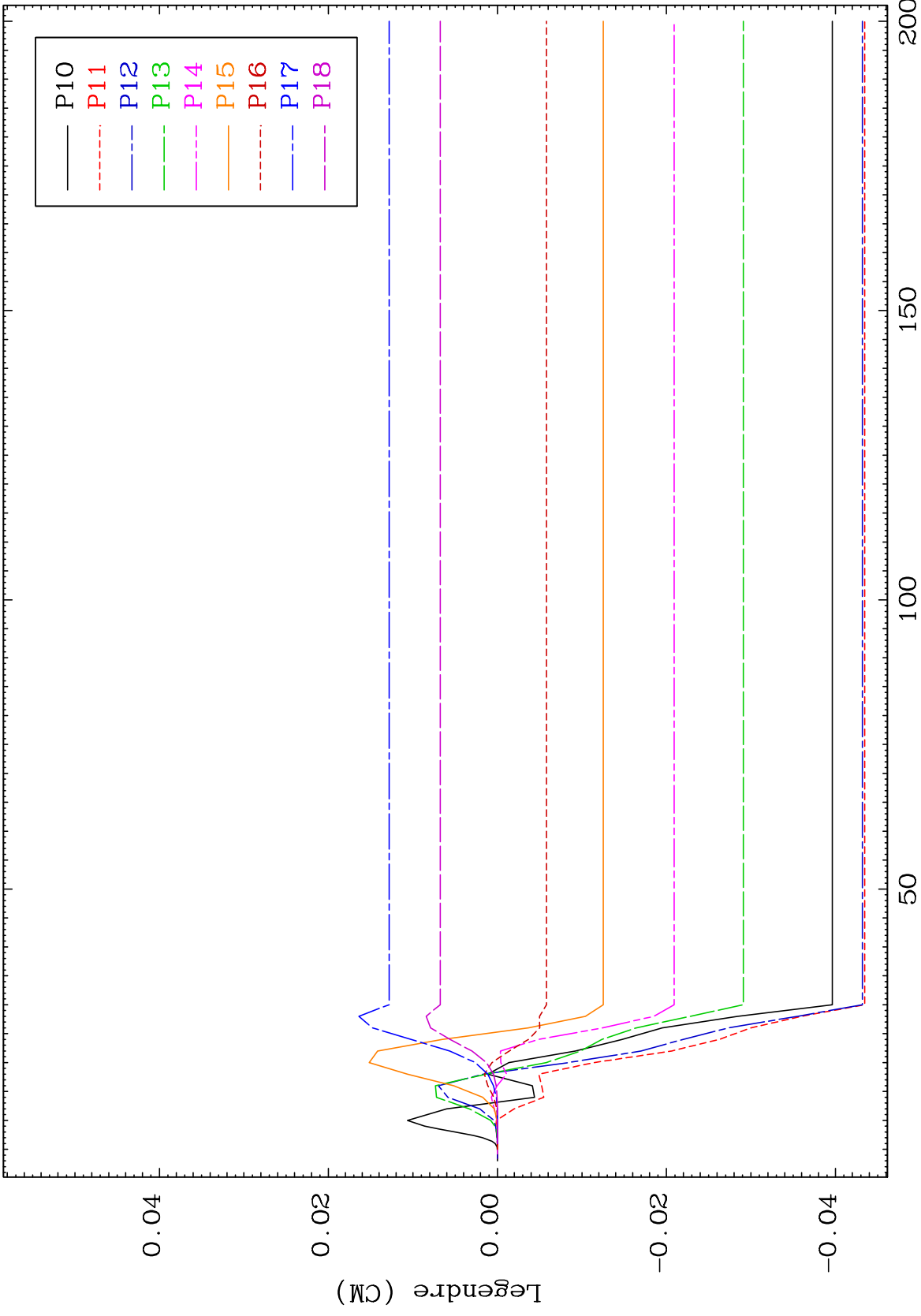
64-Gd-145



MAT 6404

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

64-Gd-145



98

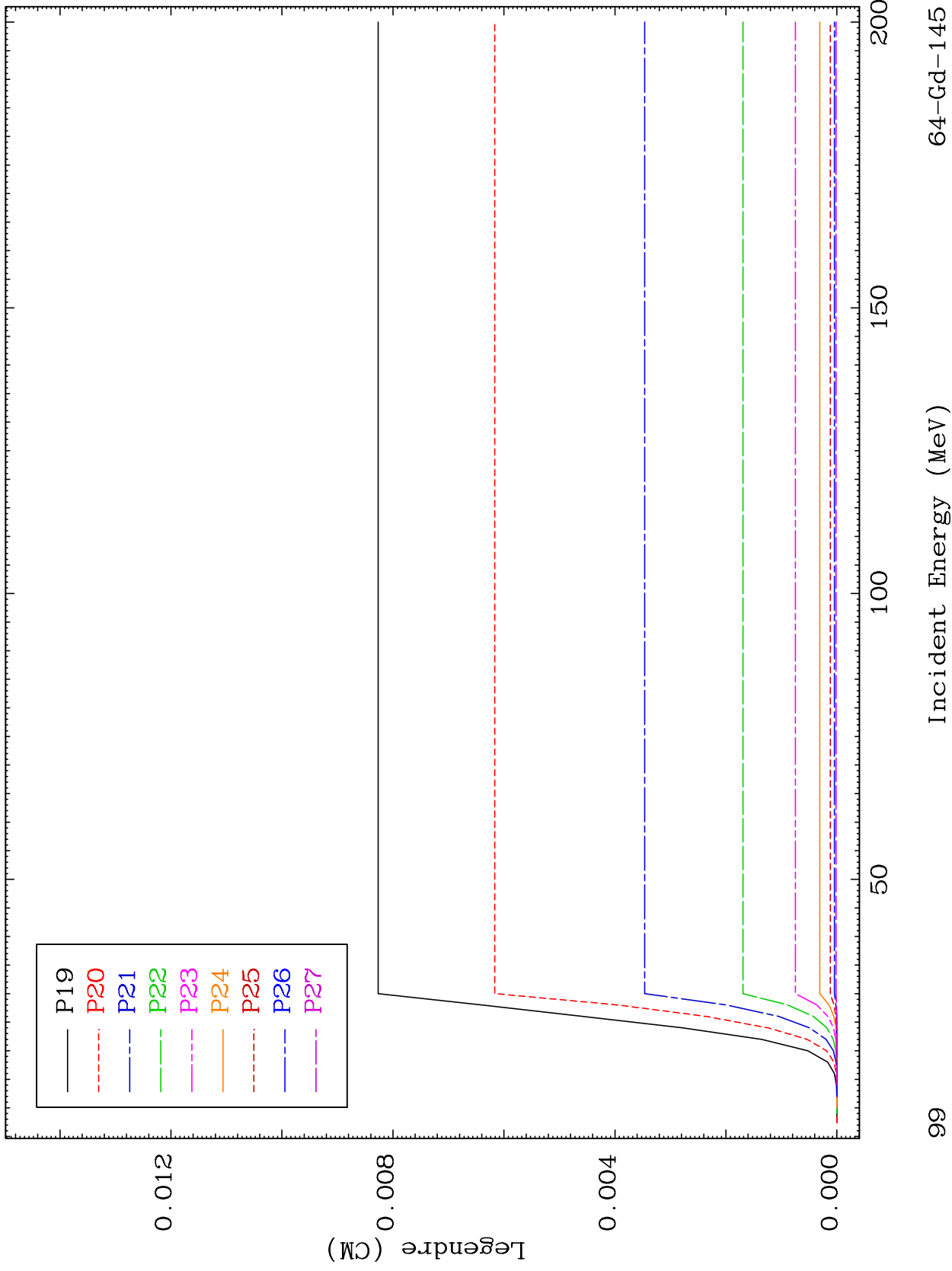
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



99

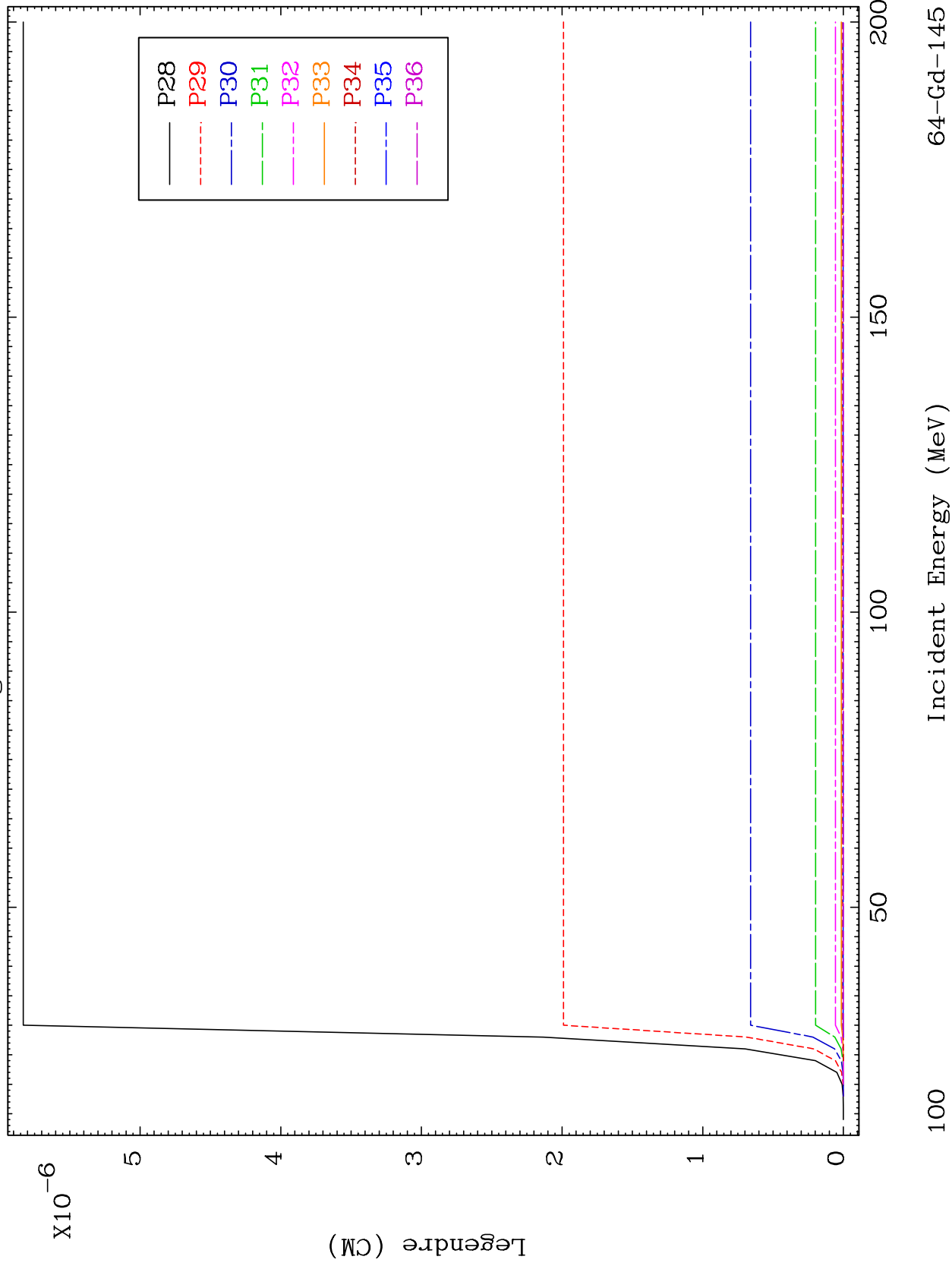
Incident Energy (MeV)

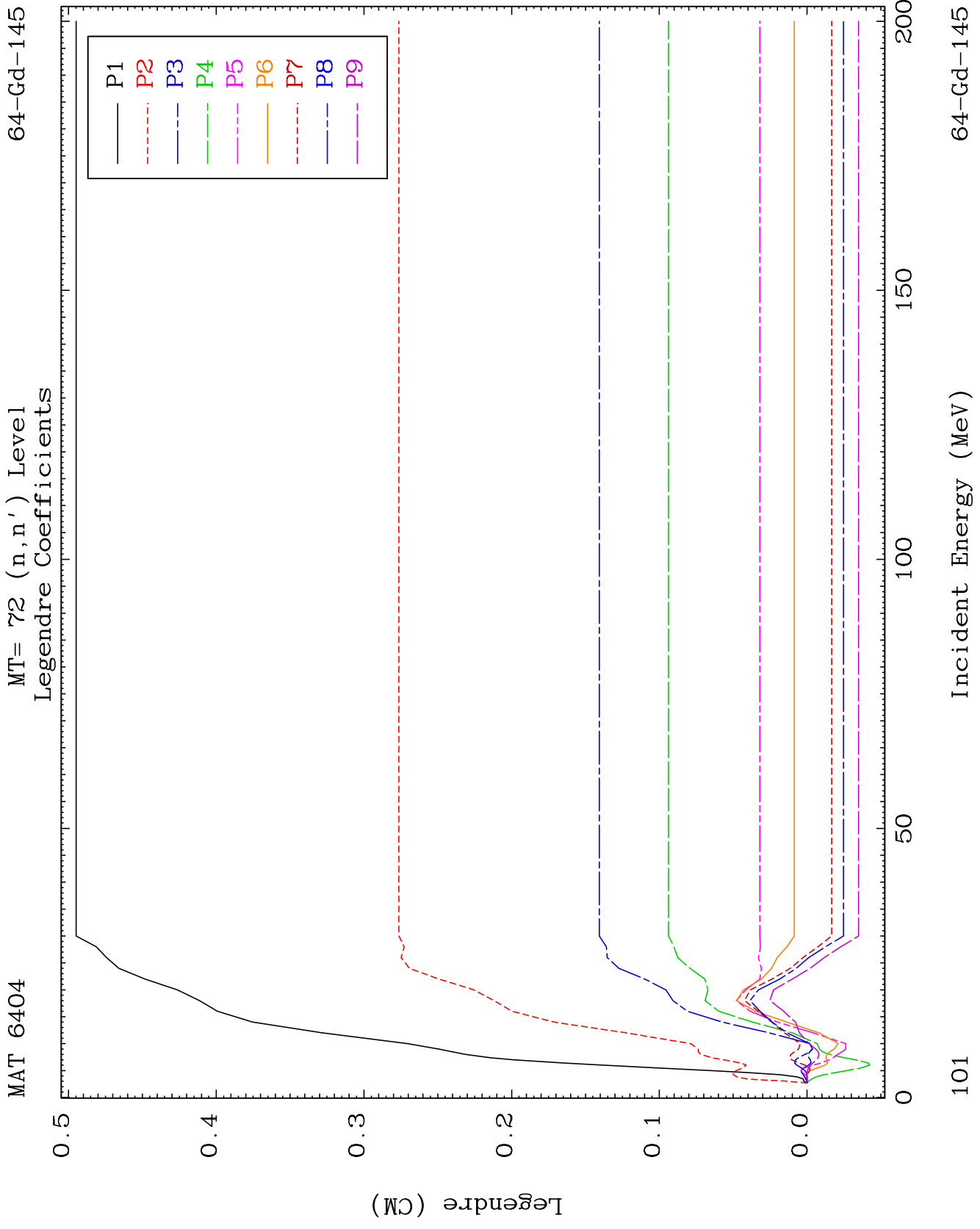
64-Gd-145

MAT 6404

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

64-Gd-145

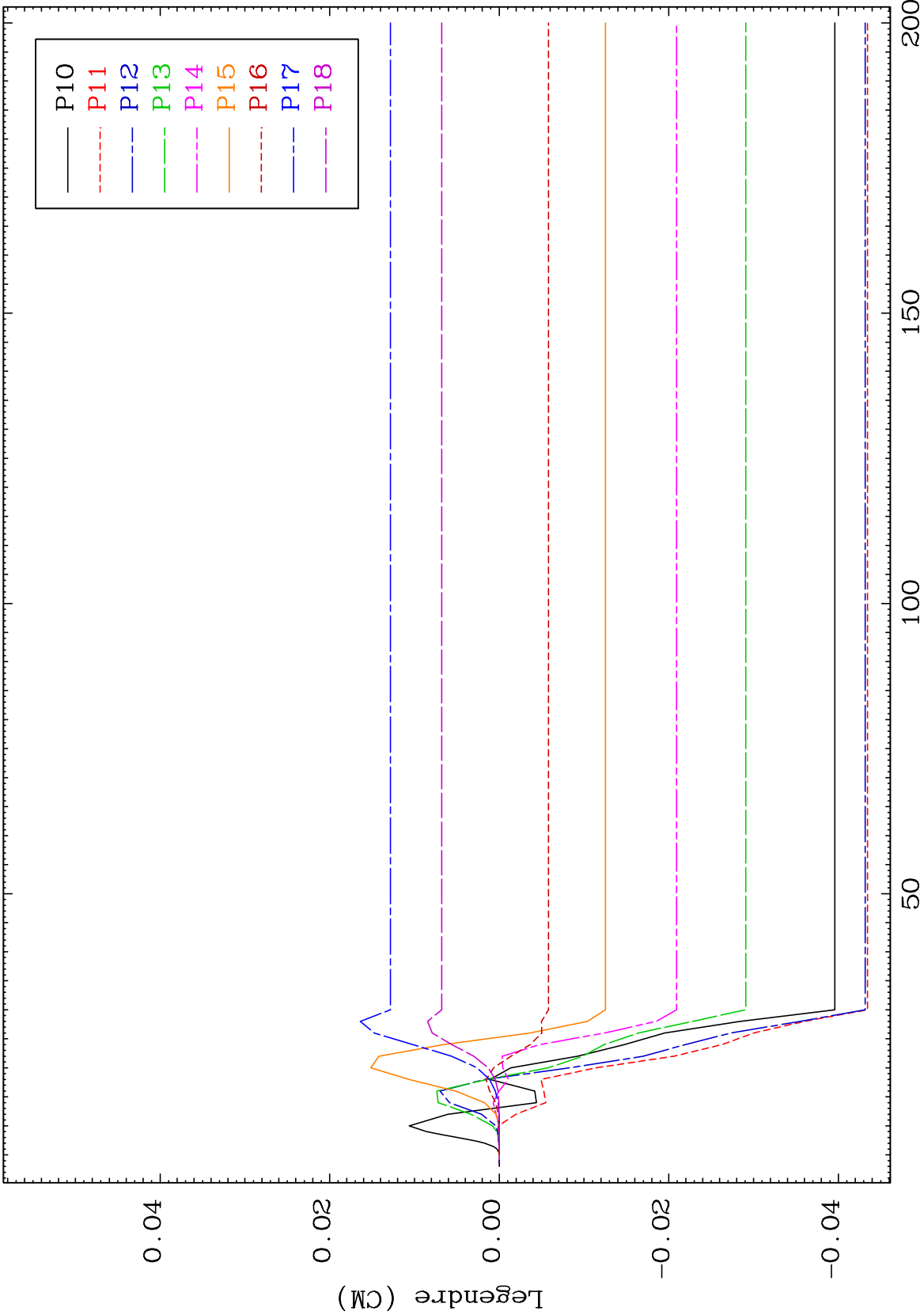




MAT 6404

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

64-Gd-145



102

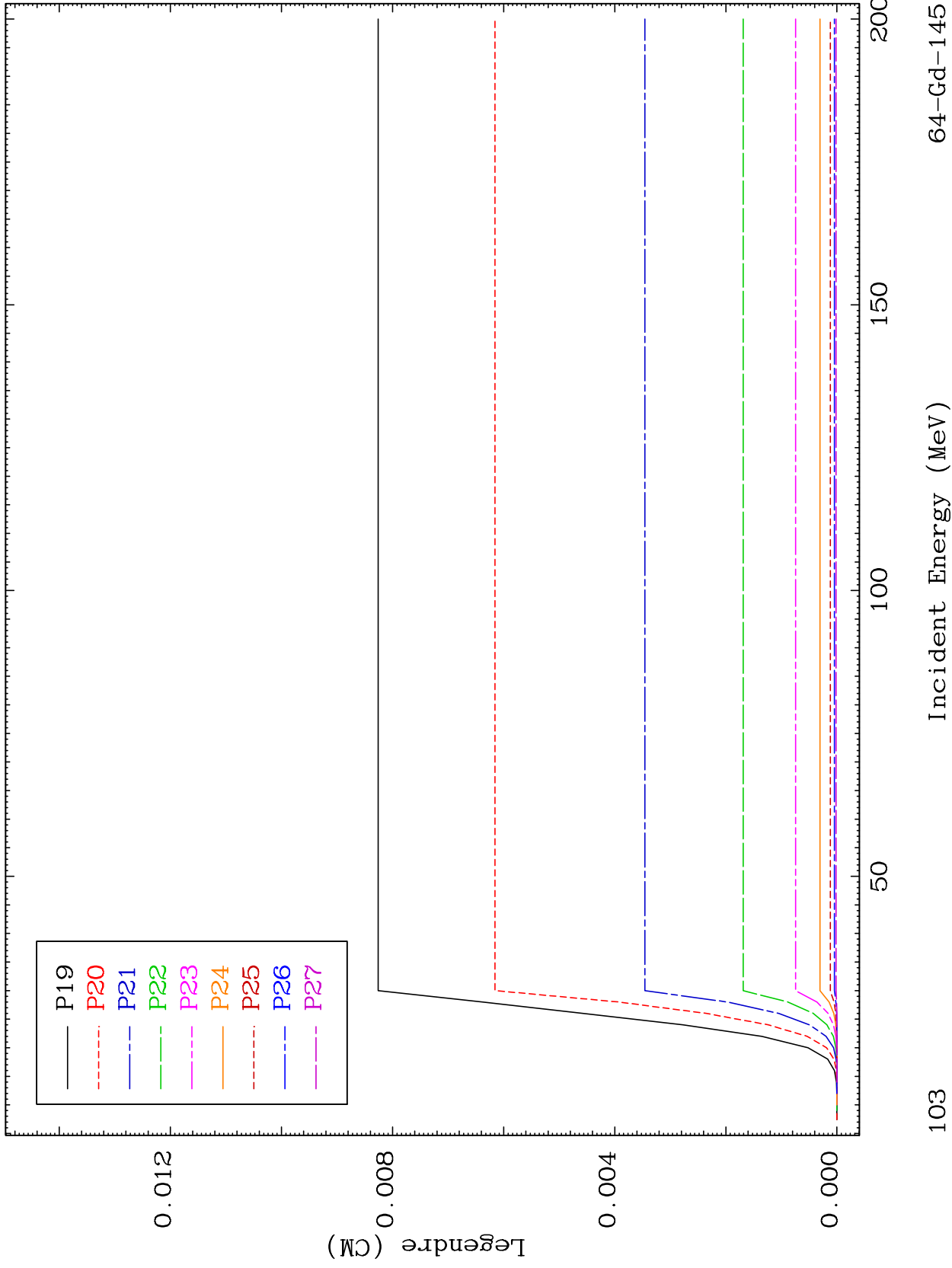
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



103

Incident Energy (MeV)

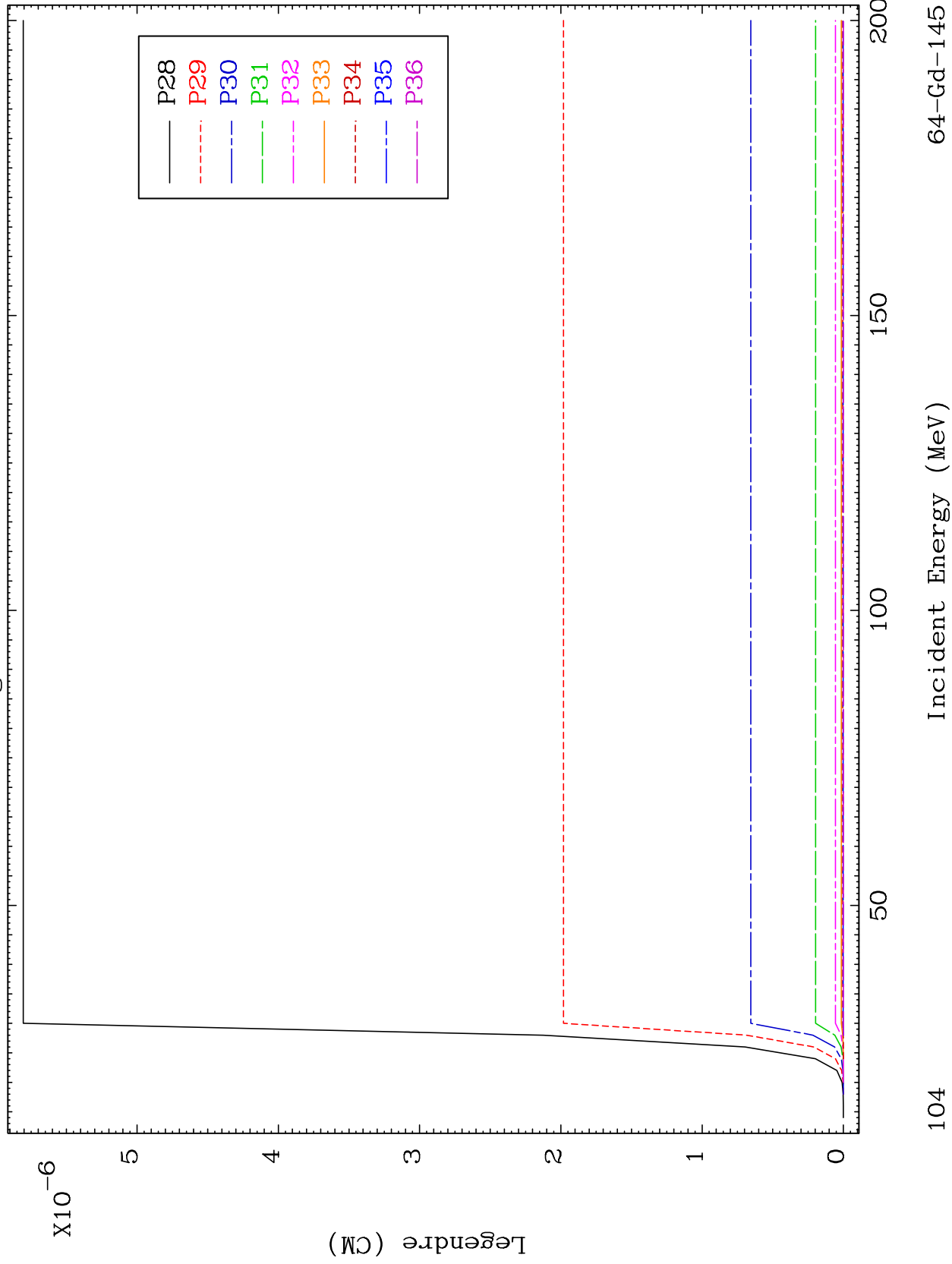
64-Gd-145



MAT 6404

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

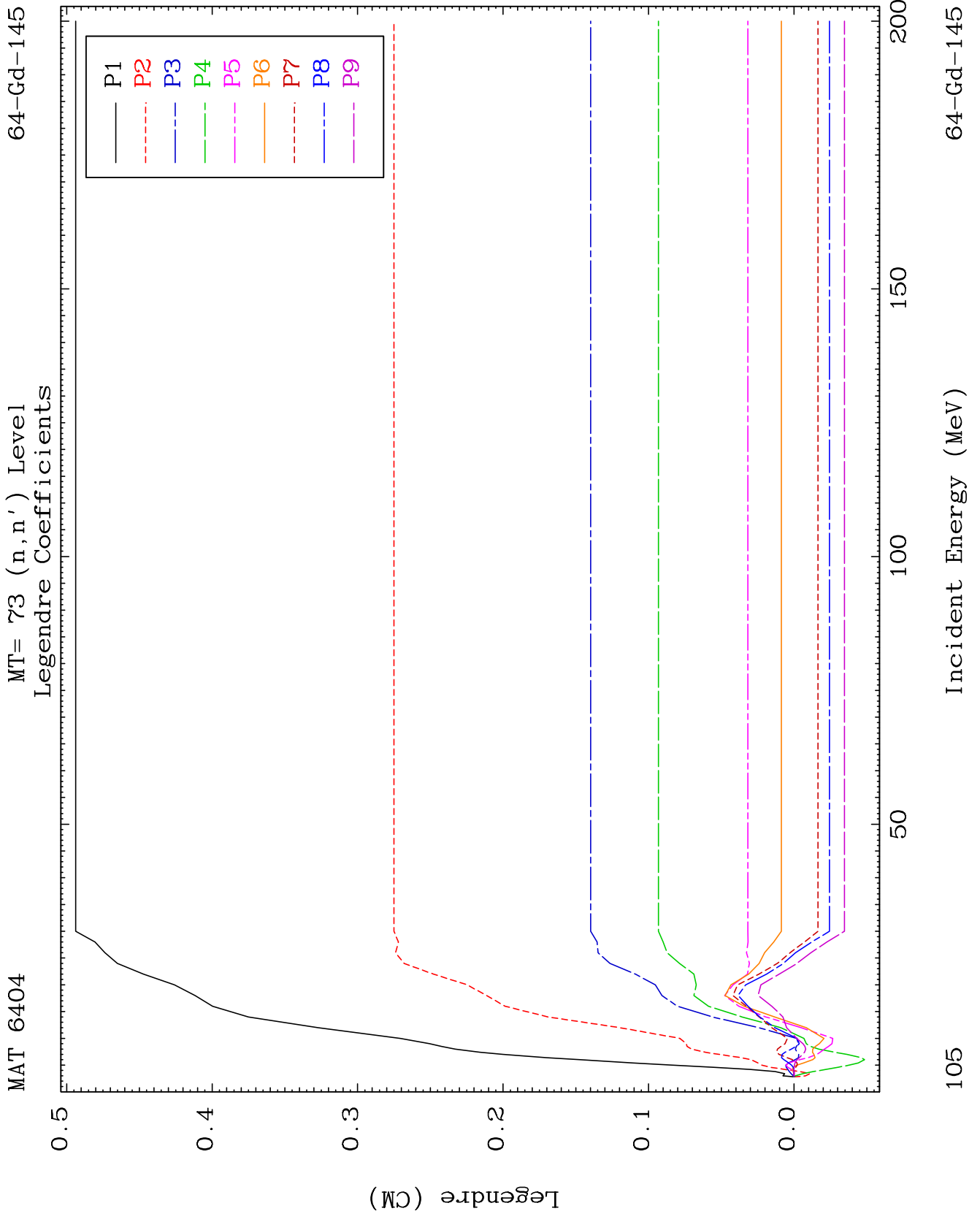
64-Gd-145



104

Incident Energy (MeV)

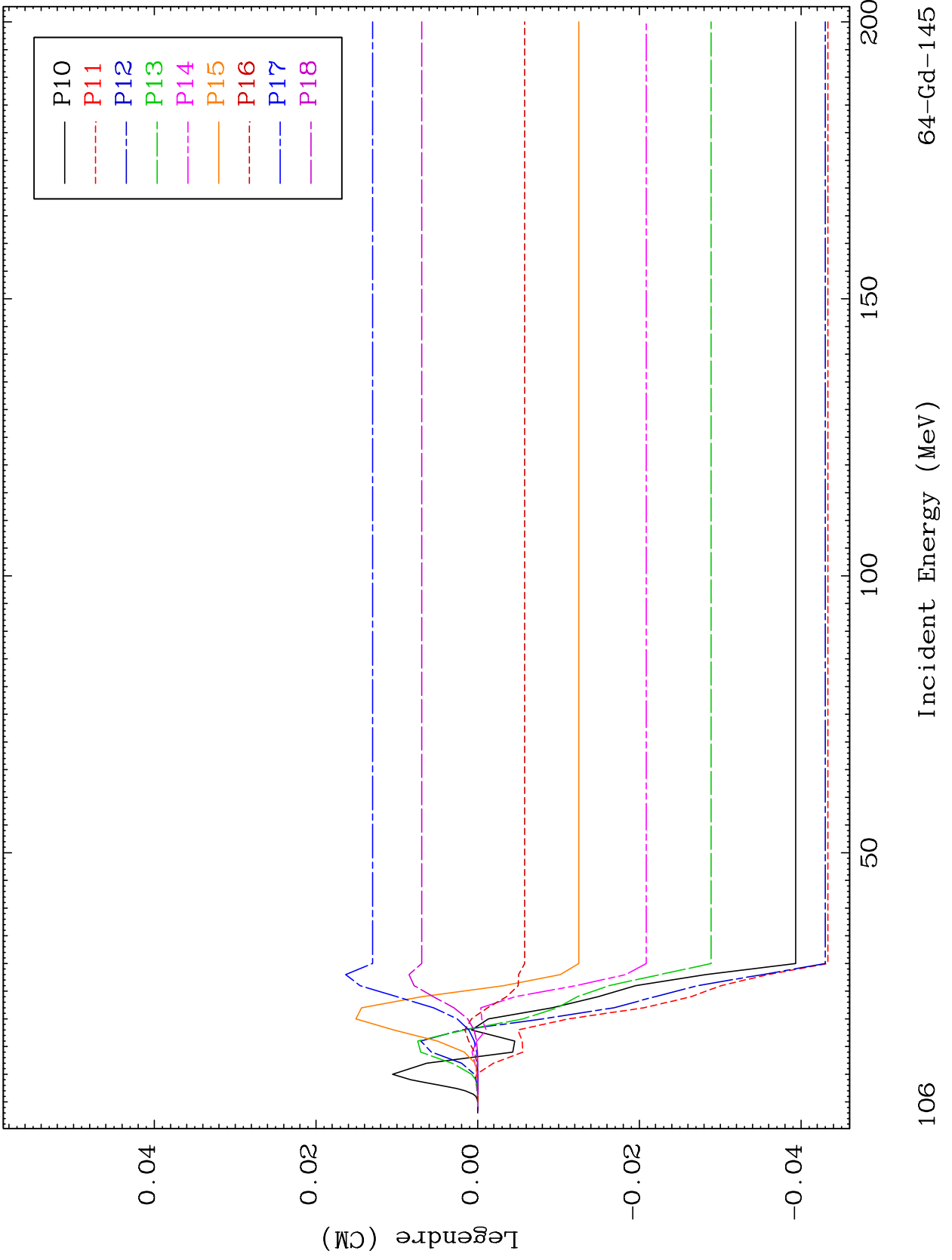
64-Gd-145



MAT 6404

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

64-Gd-145



106

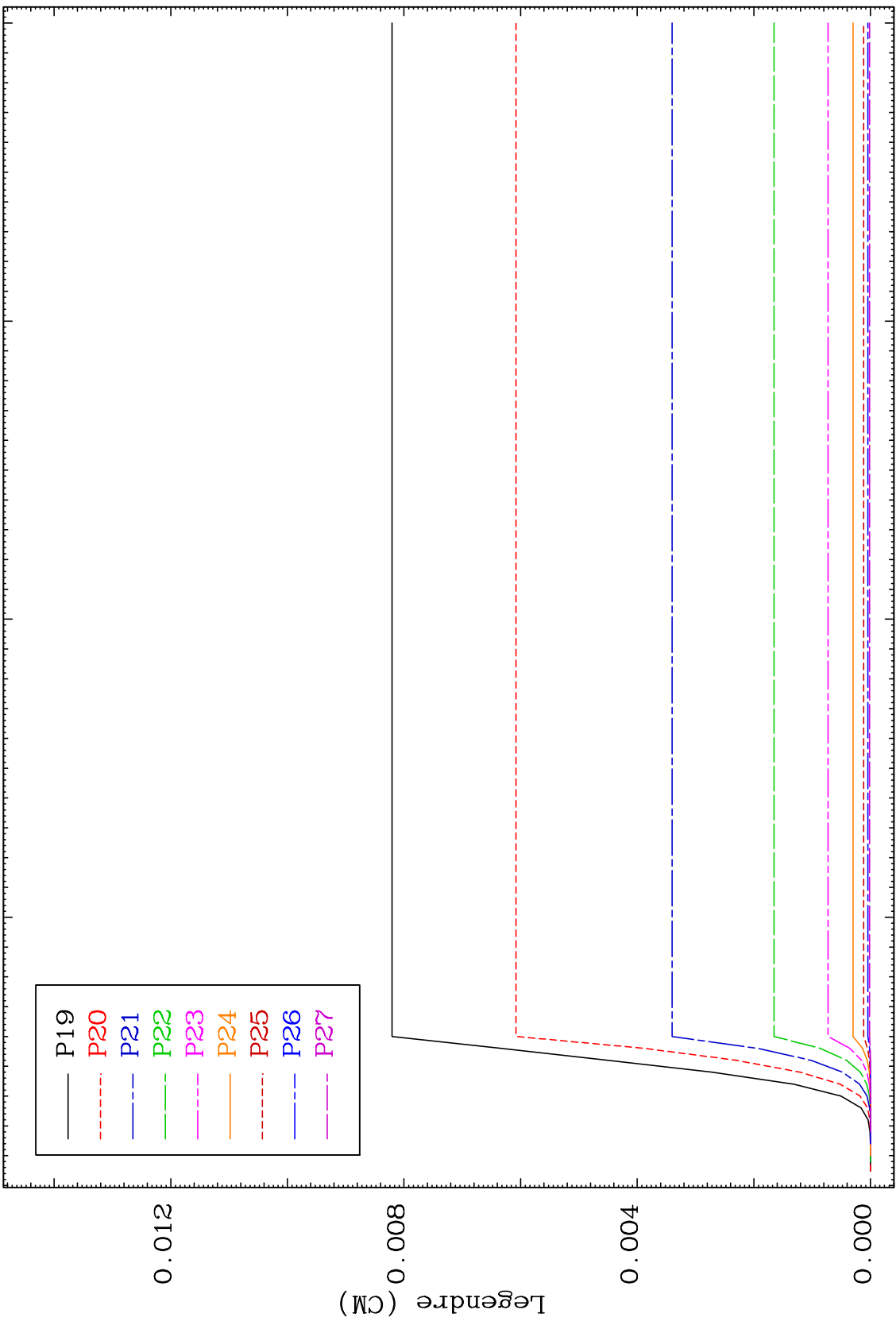
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



107

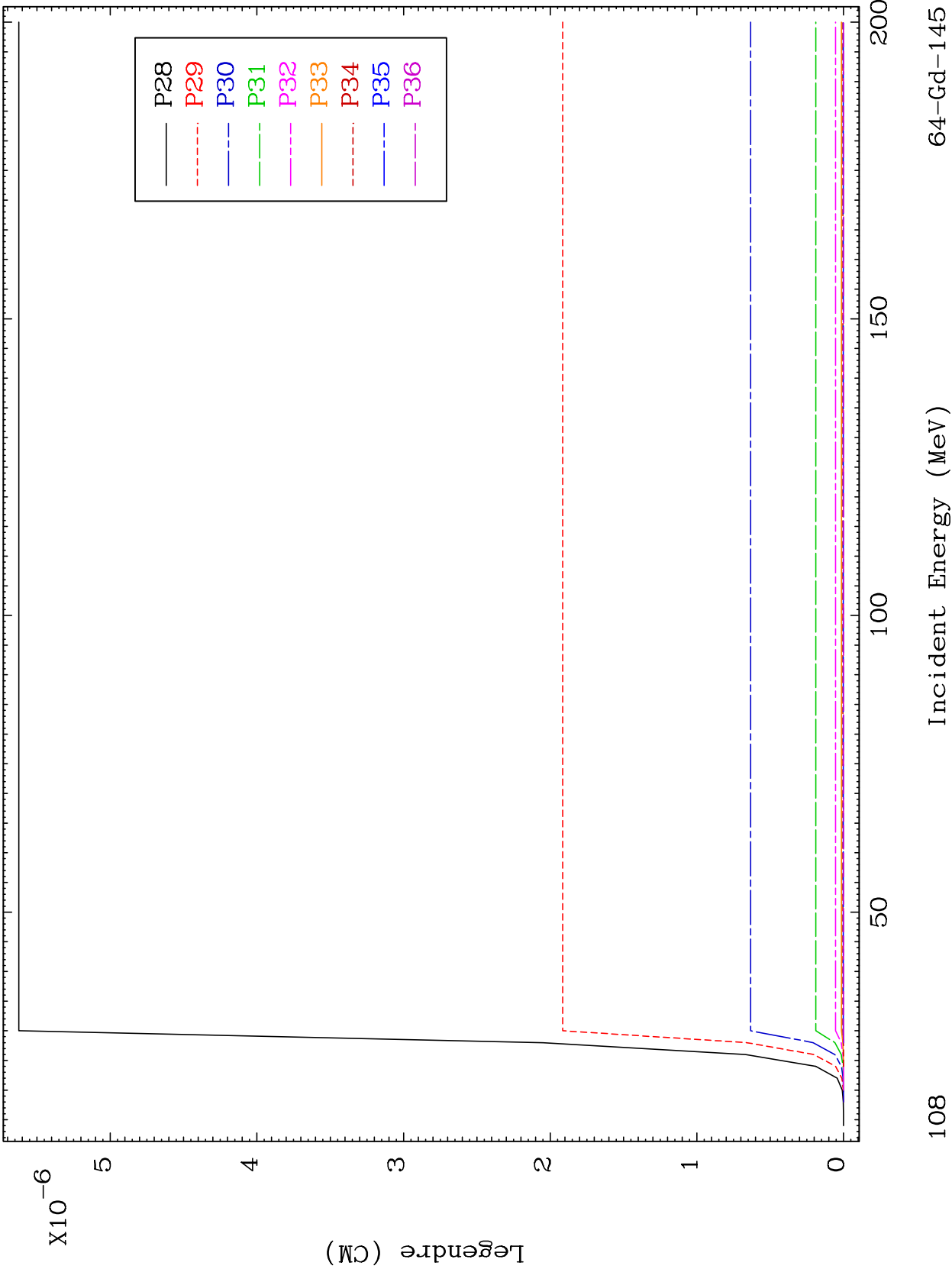
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



108

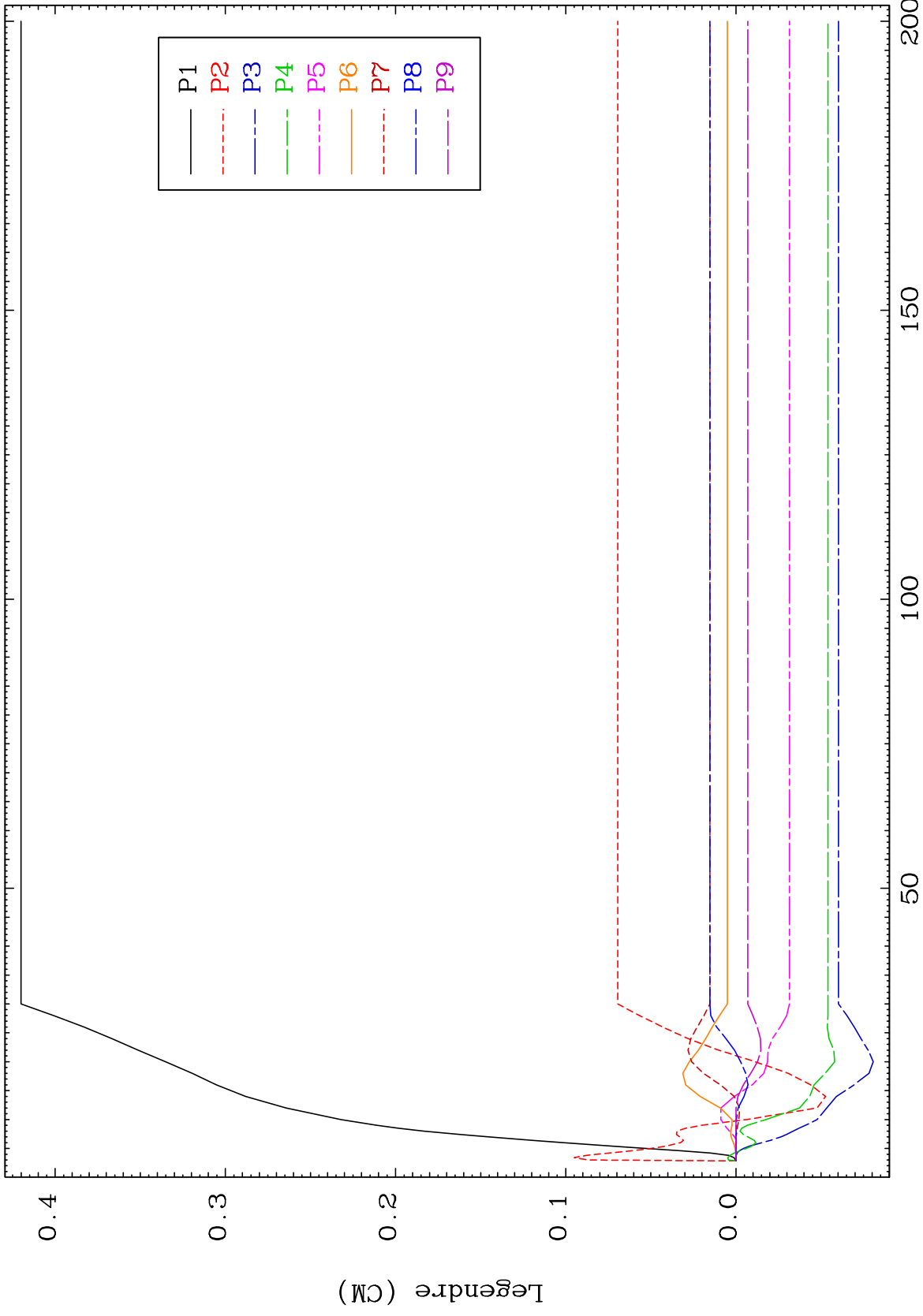
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



109

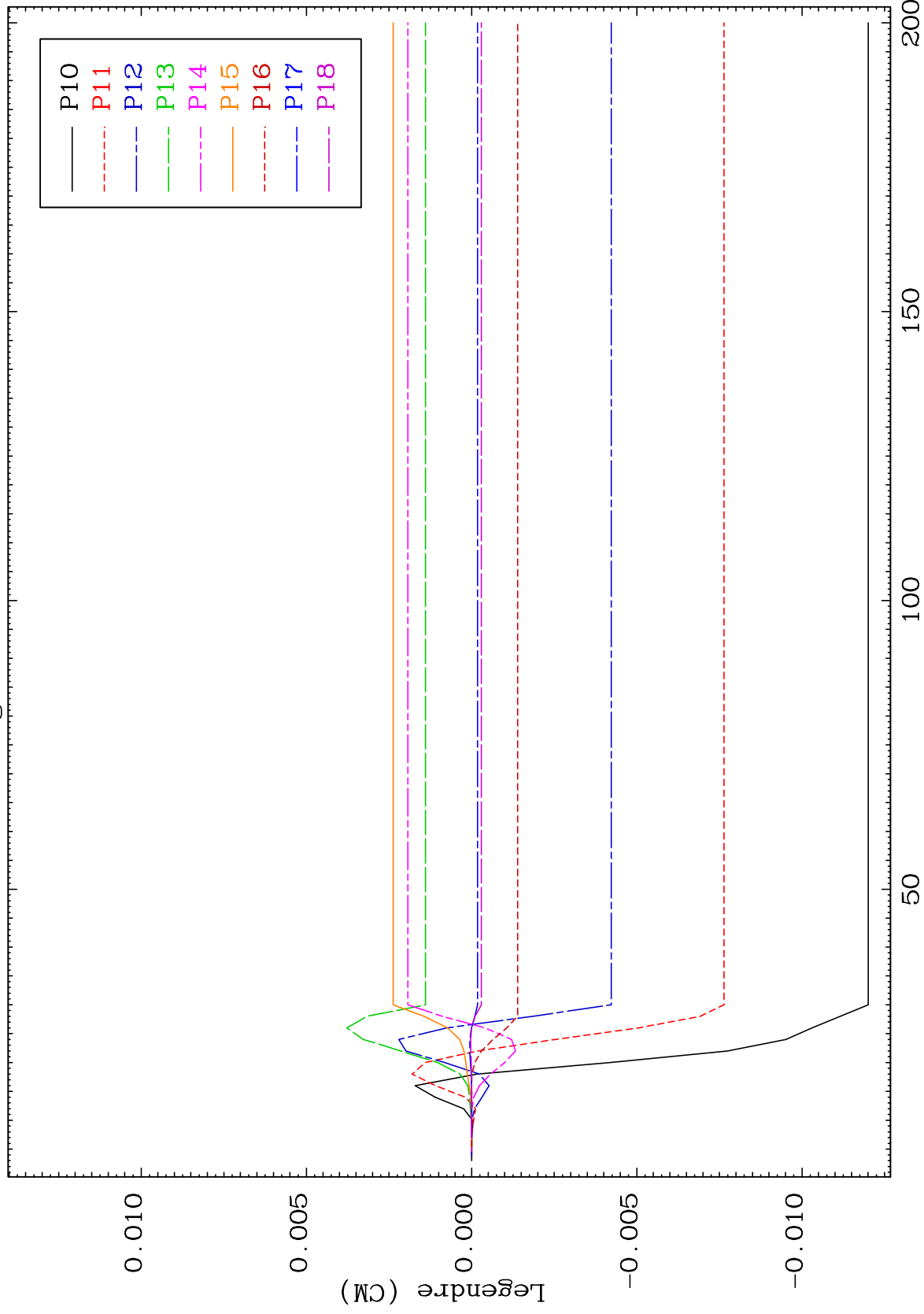
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



110

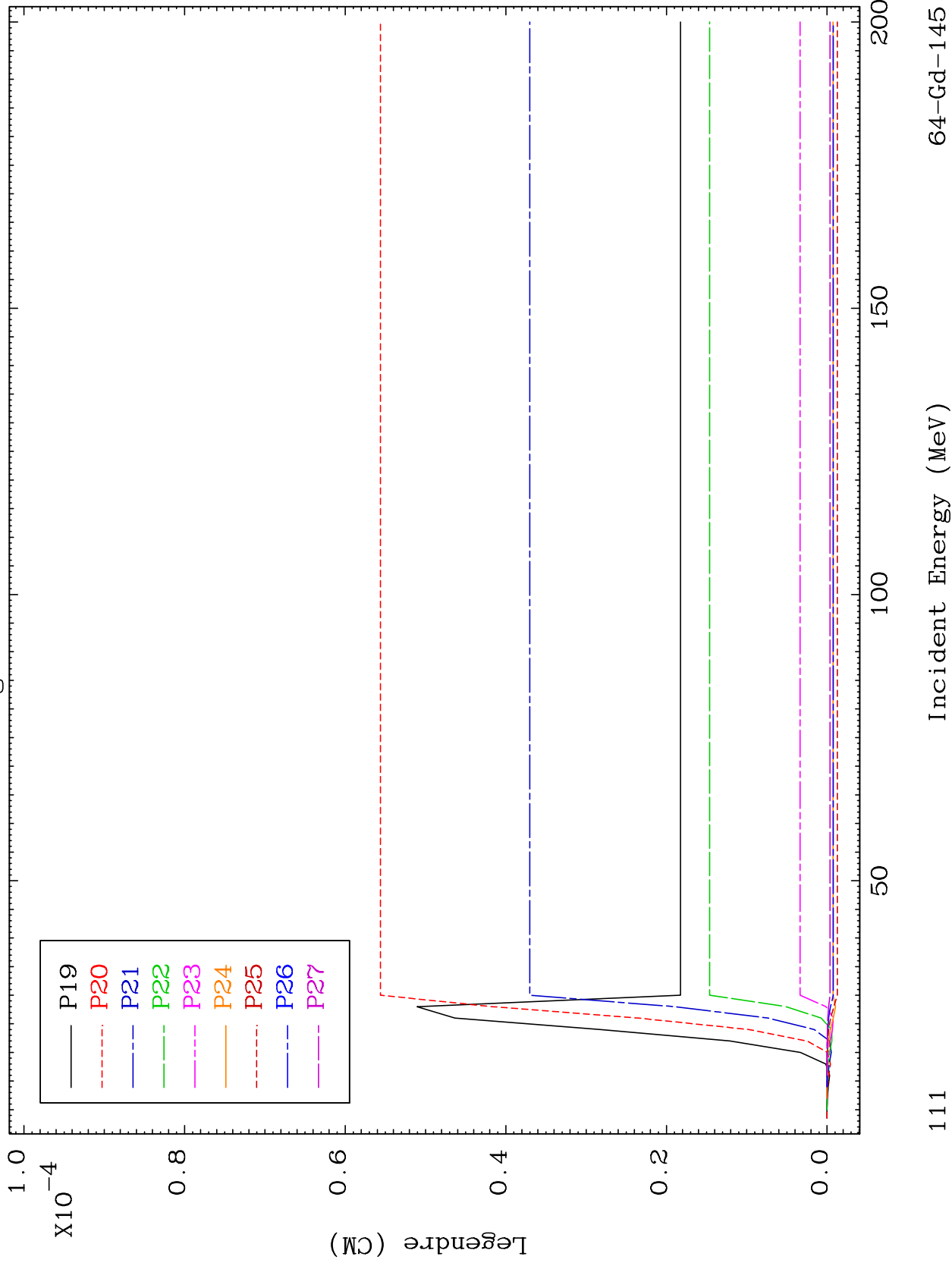
Incident Energy (MeV)

64-Gd-145

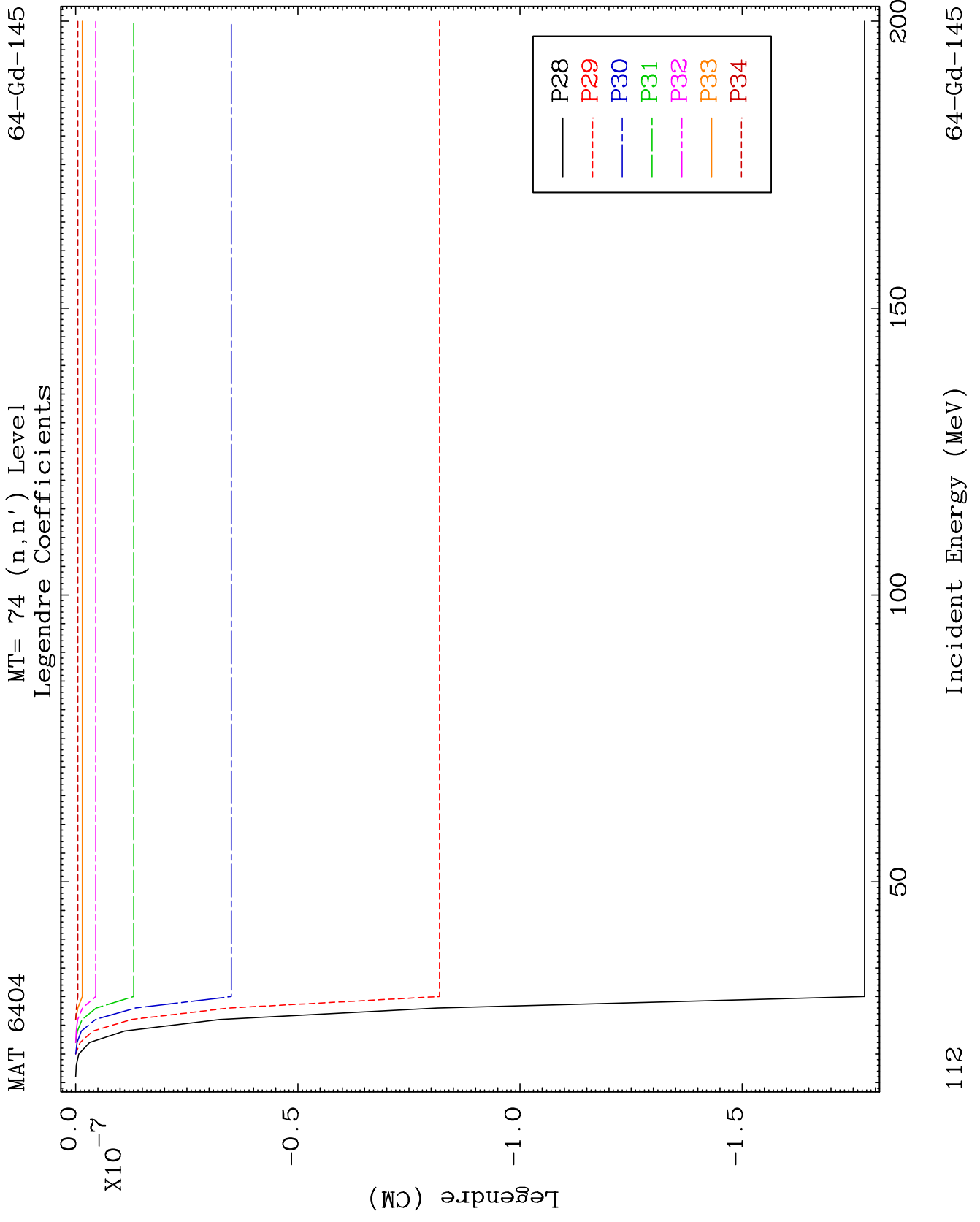
MAT 6404

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

64-Gd-145



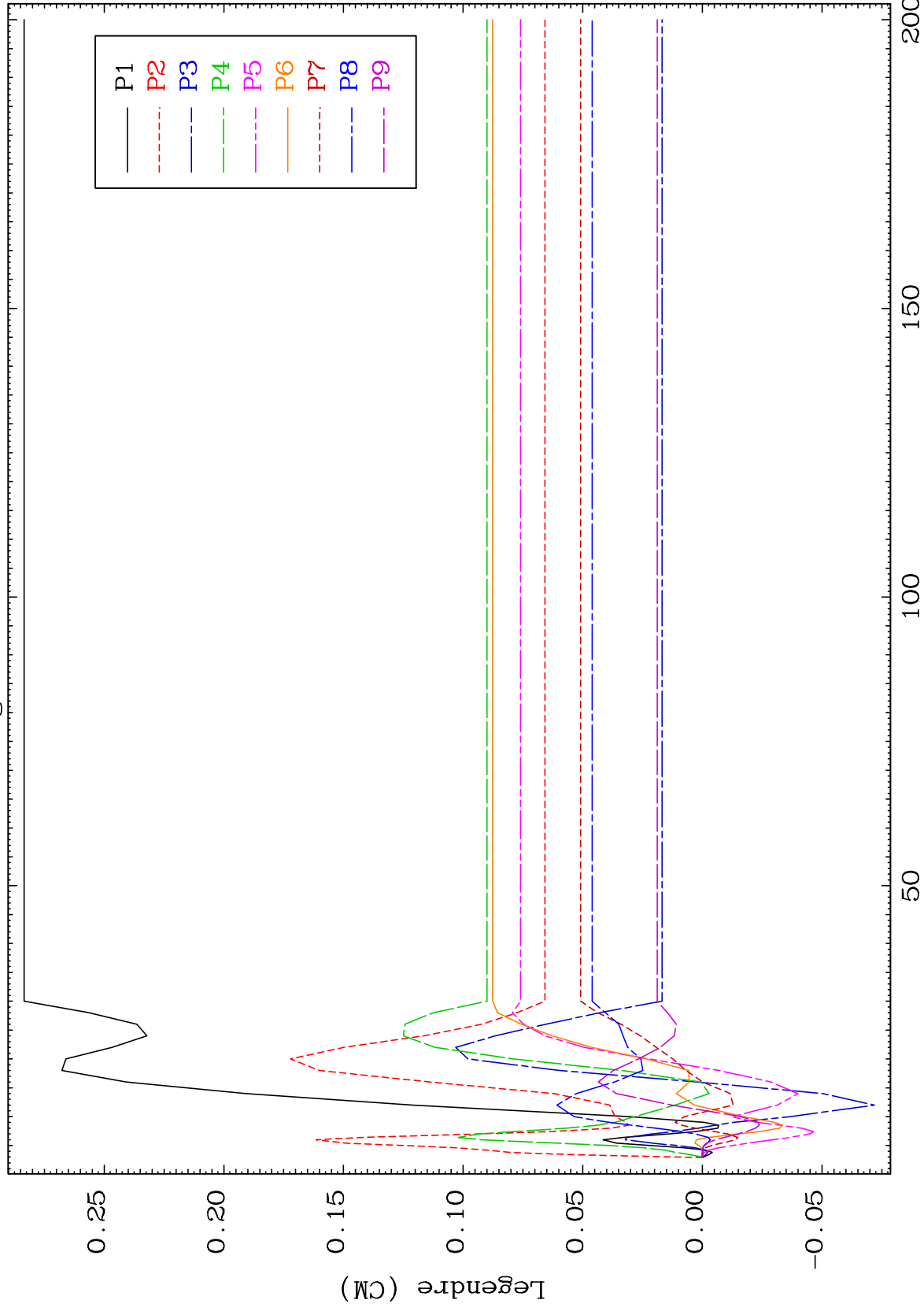




MAT 6404

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

64-Gd-145



113

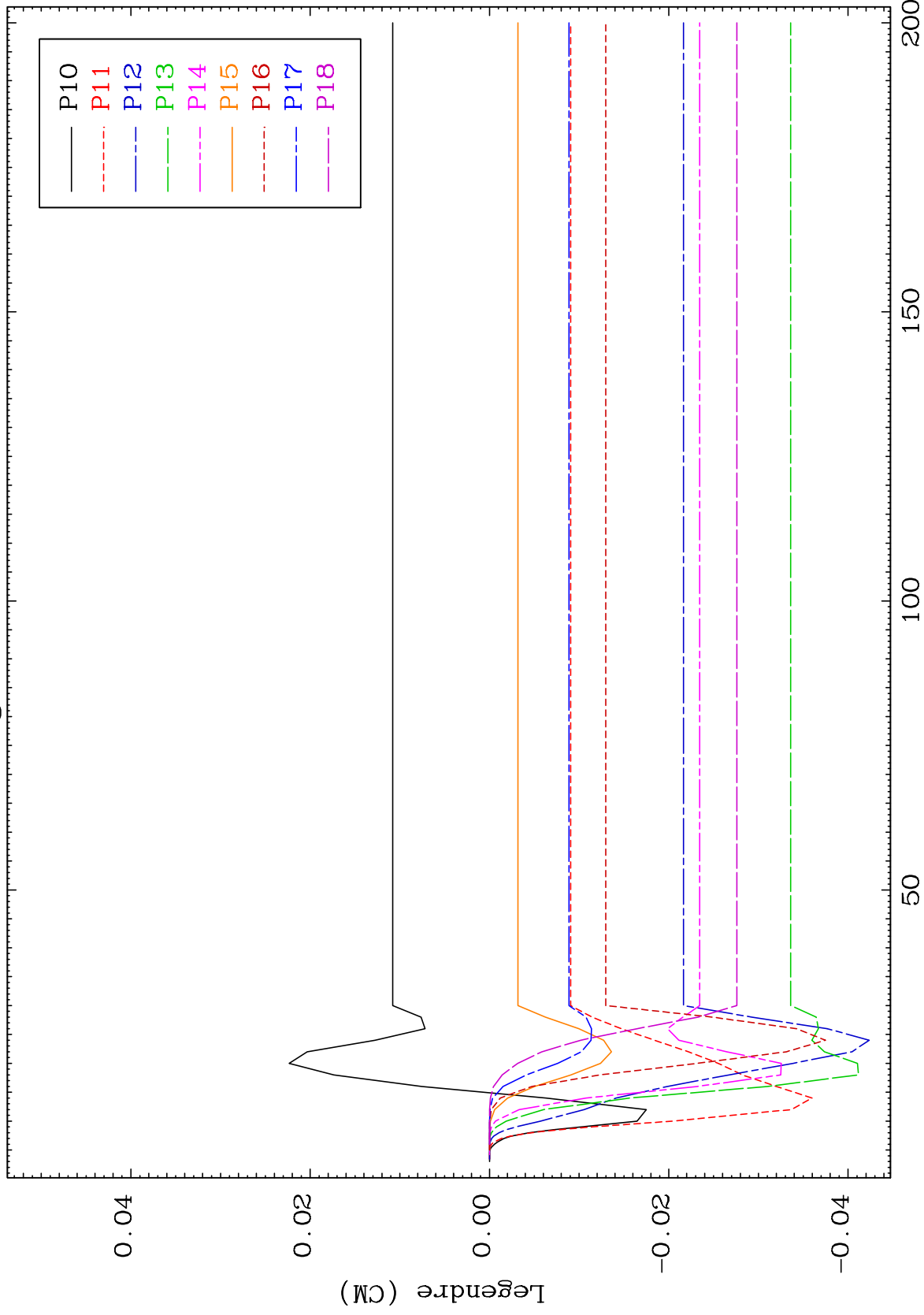
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

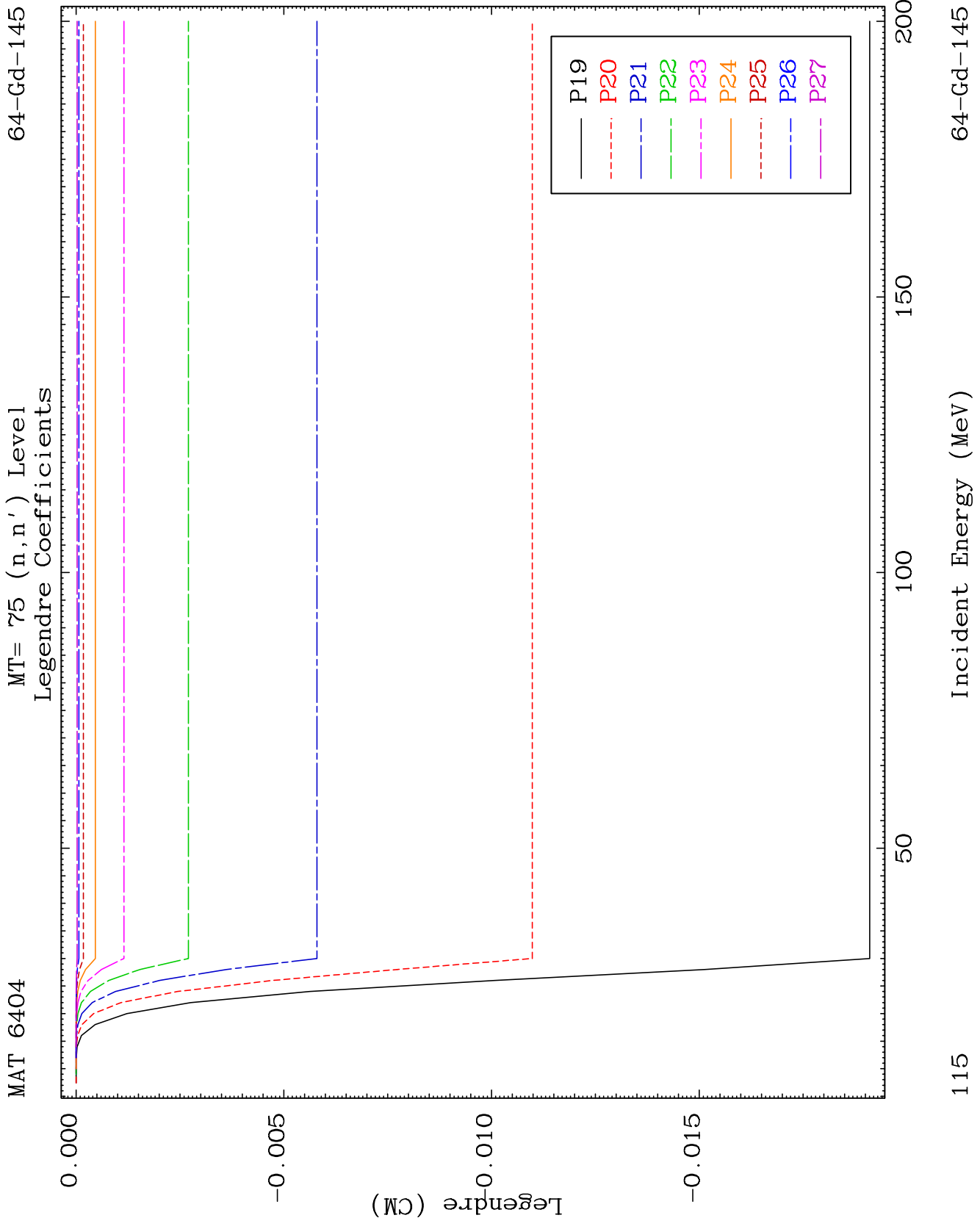
64-Gd-145

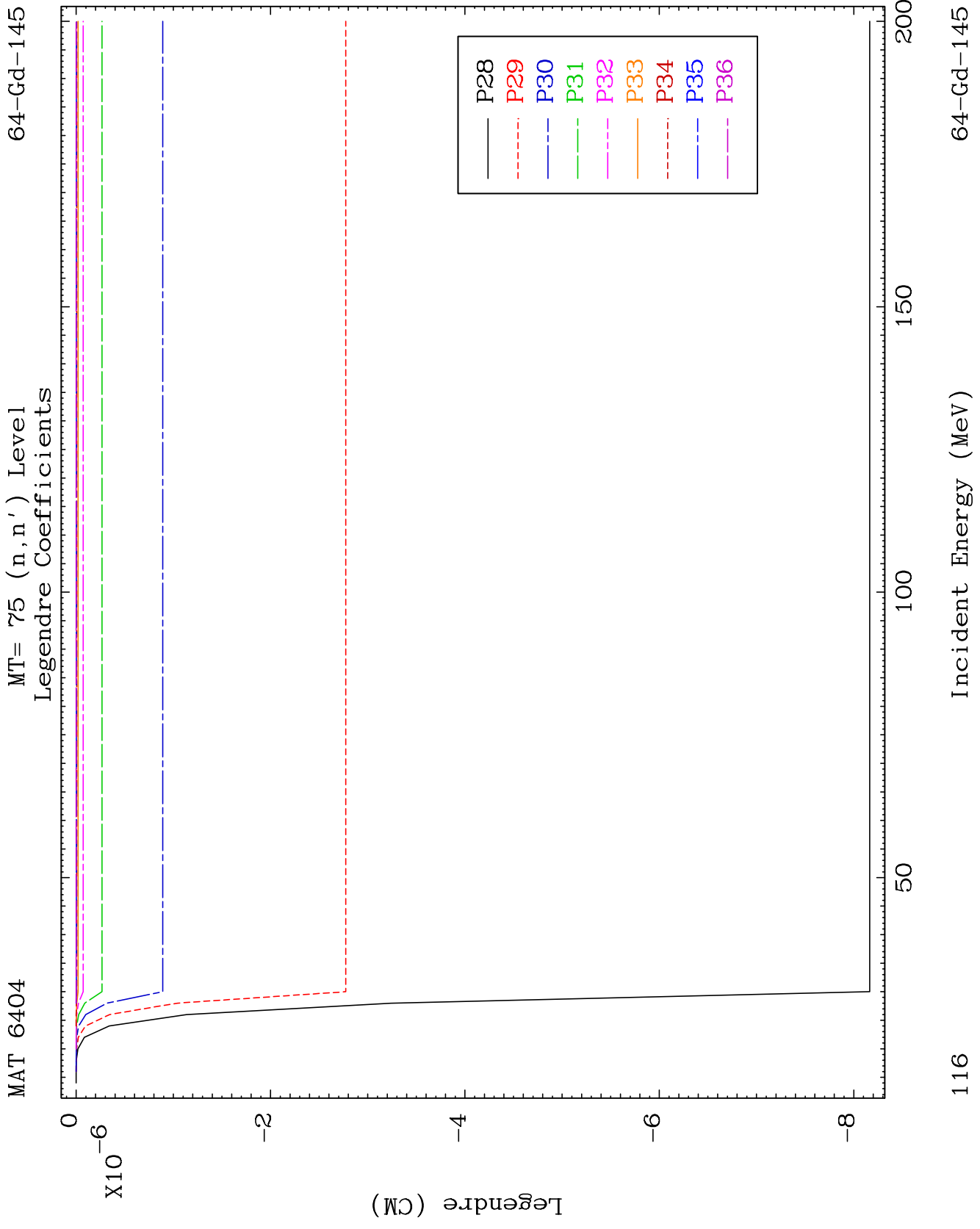


114

Incident Energy (MeV)

64-Gd-145



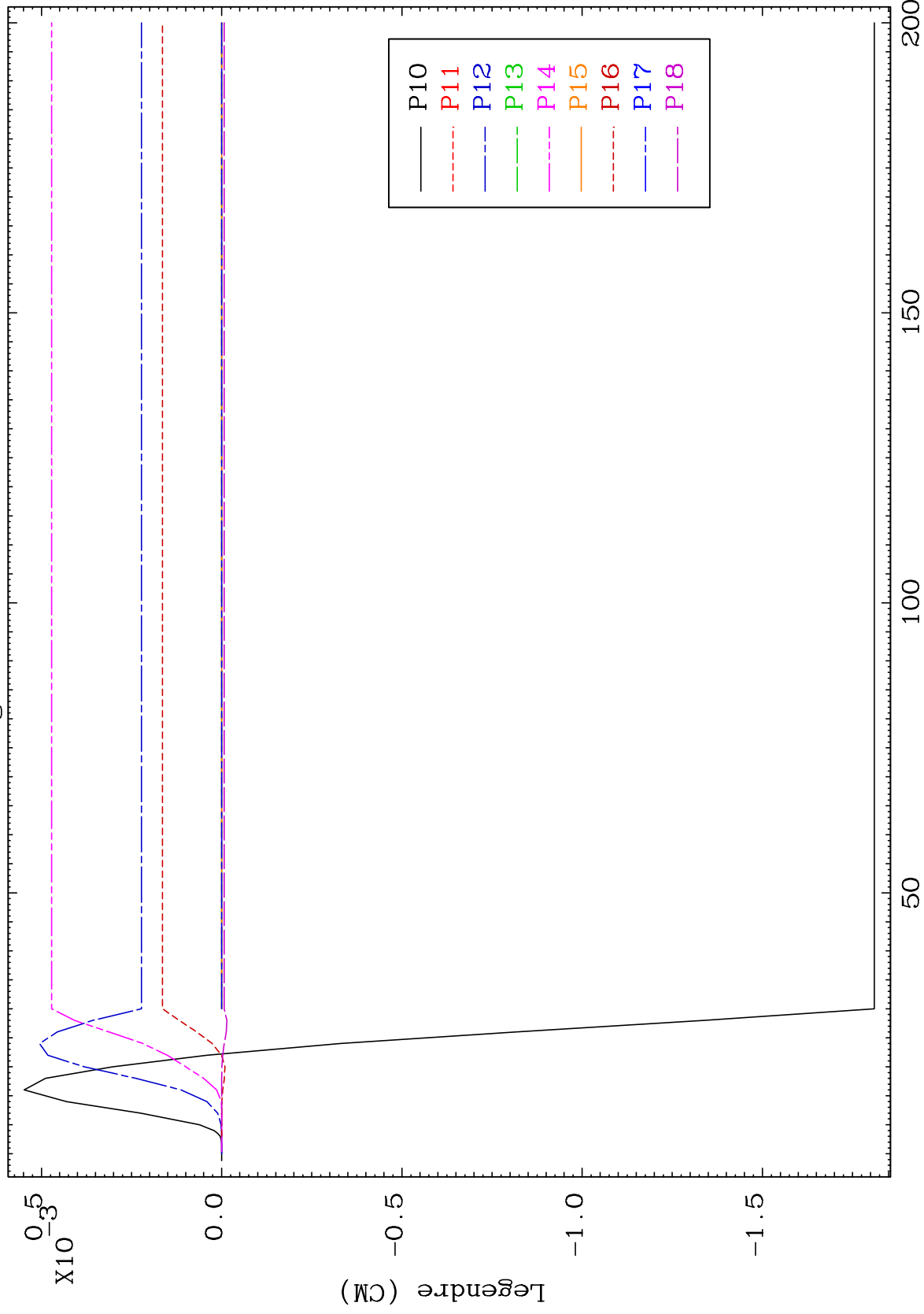




MAT 6404

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

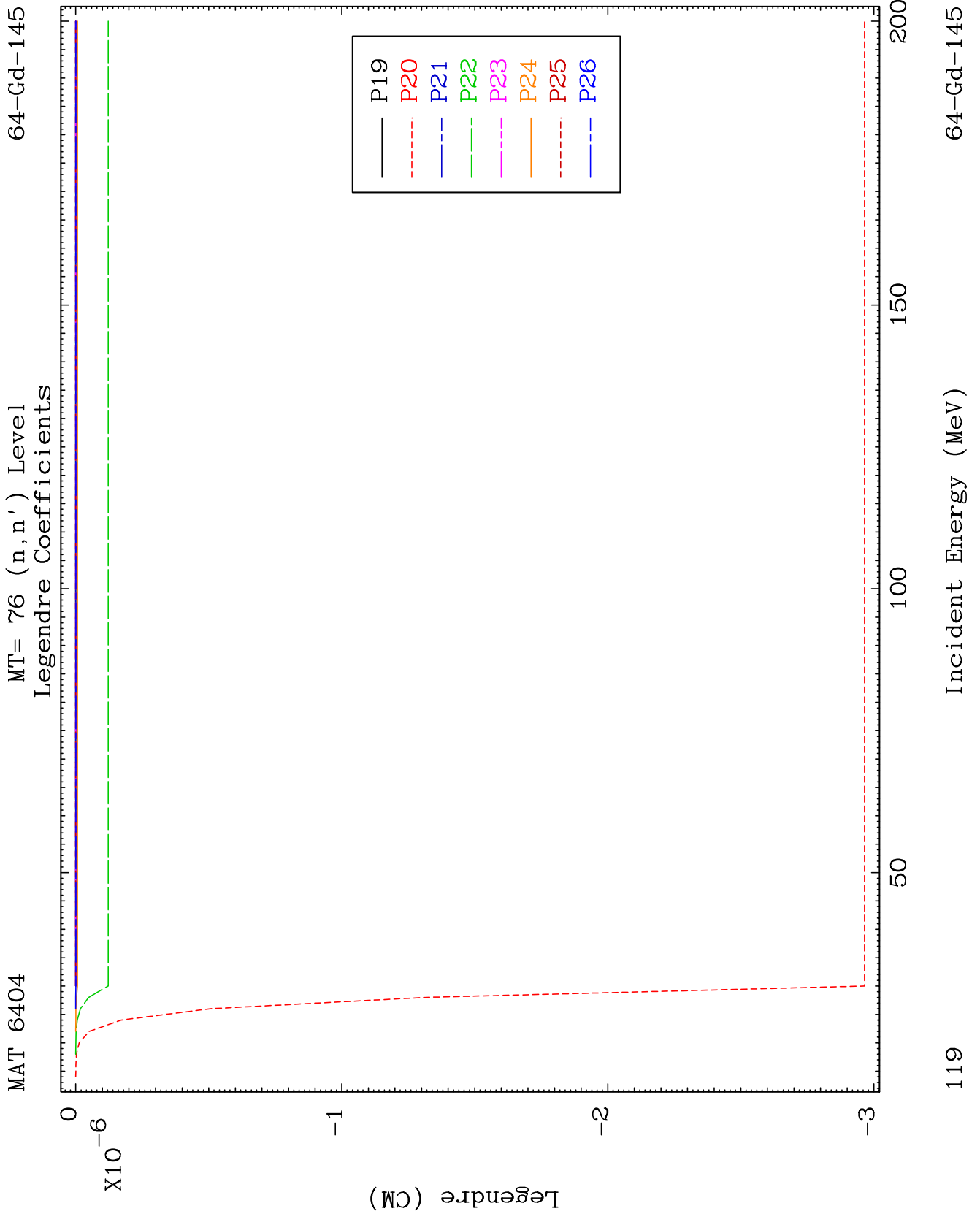
64-Gd-145



118

Incident Energy (MeV)

64-Gd-145



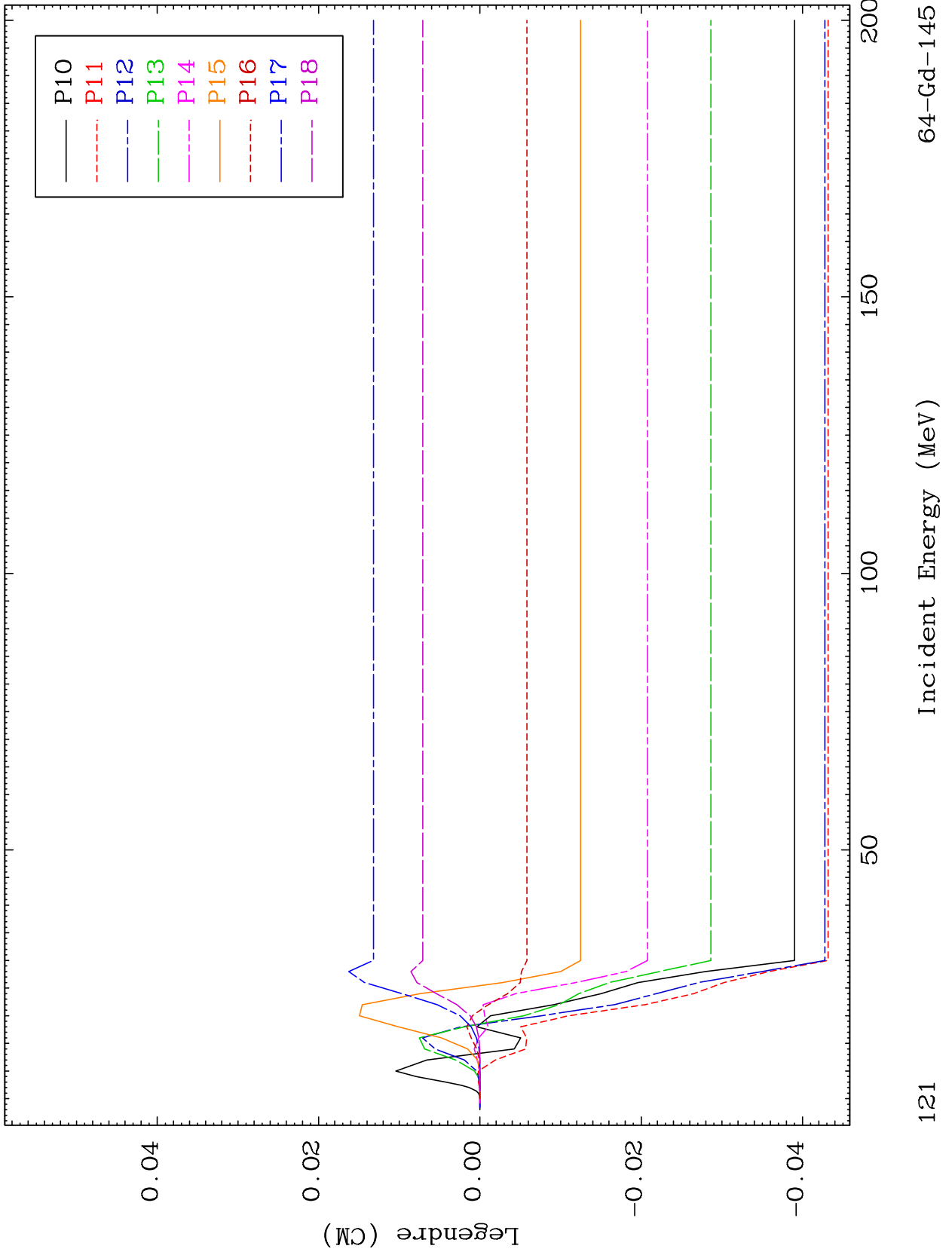




MAT 6404

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

64-Gd-145



121

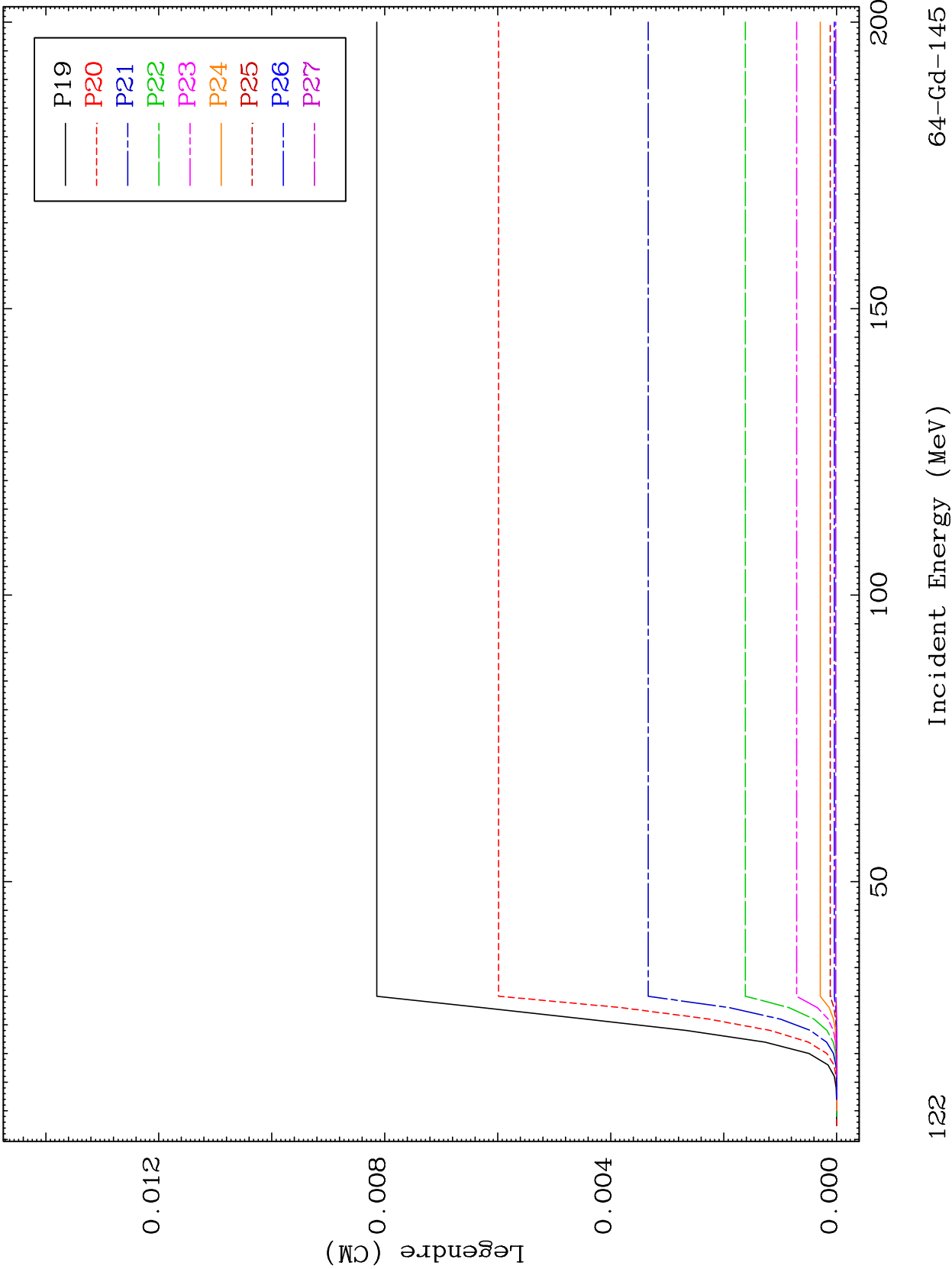
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



122

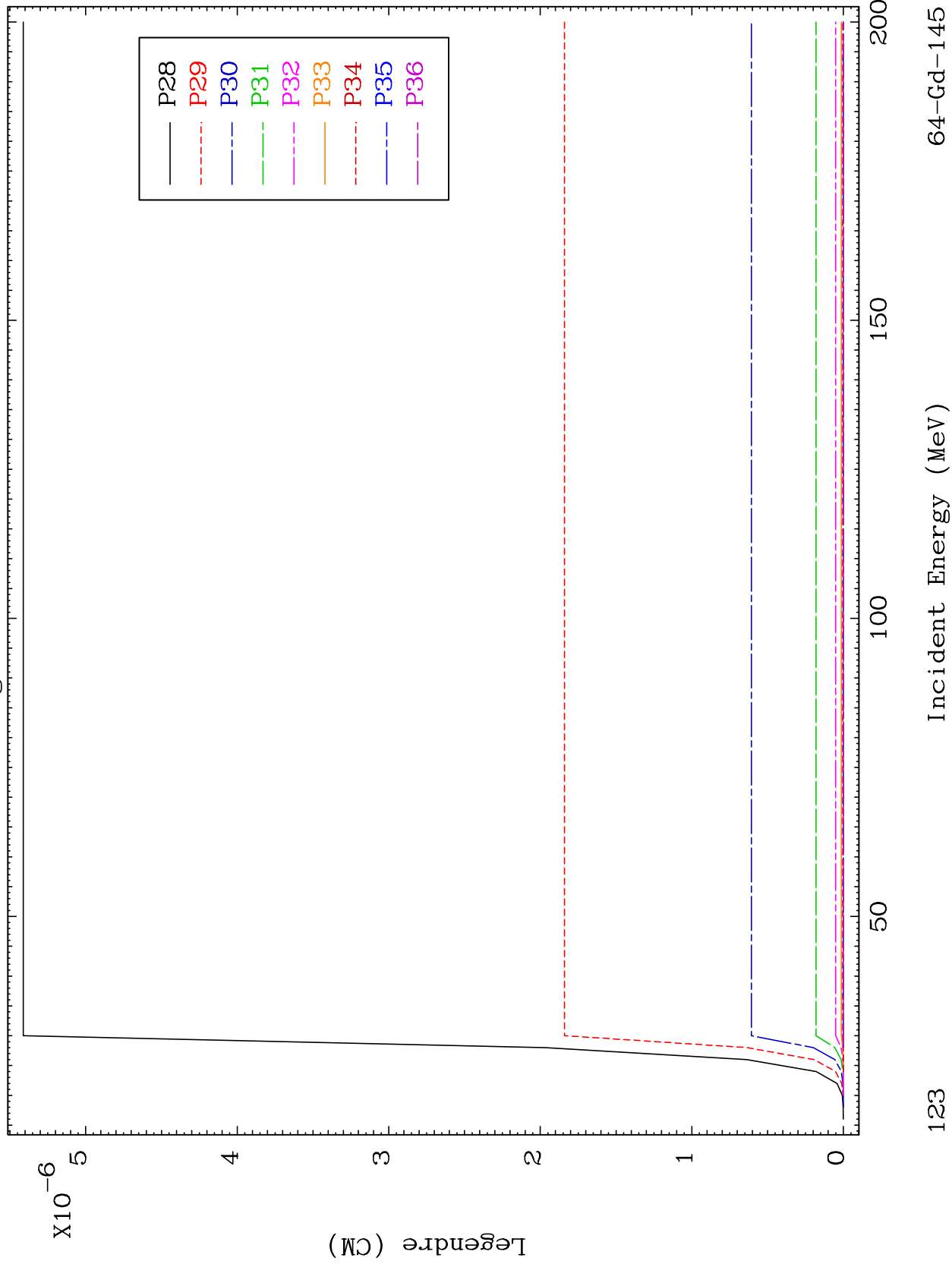
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



123

Incident Energy (MeV)

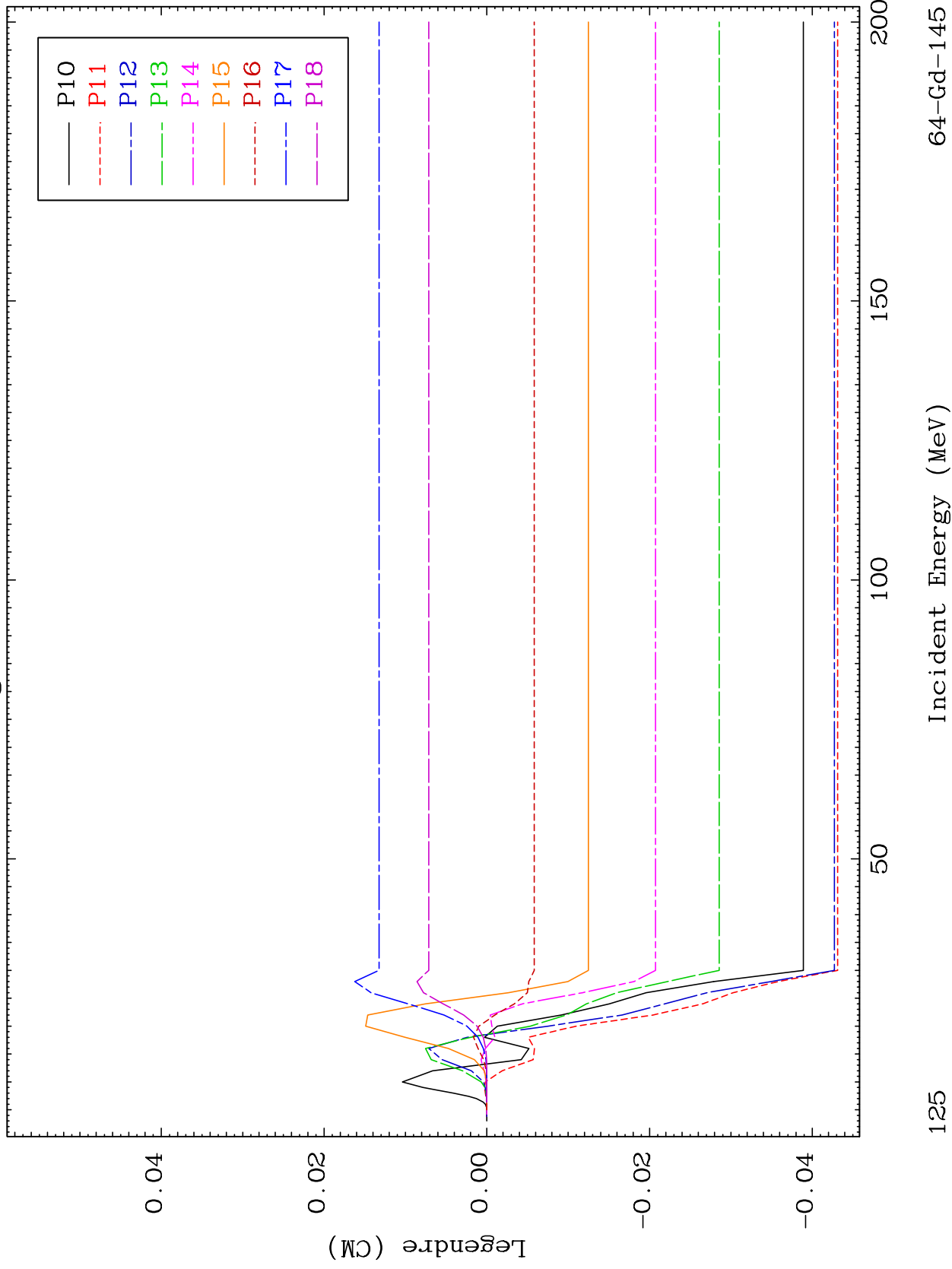
64-Gd-145



MAT 6404

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

64-Gd-145



125

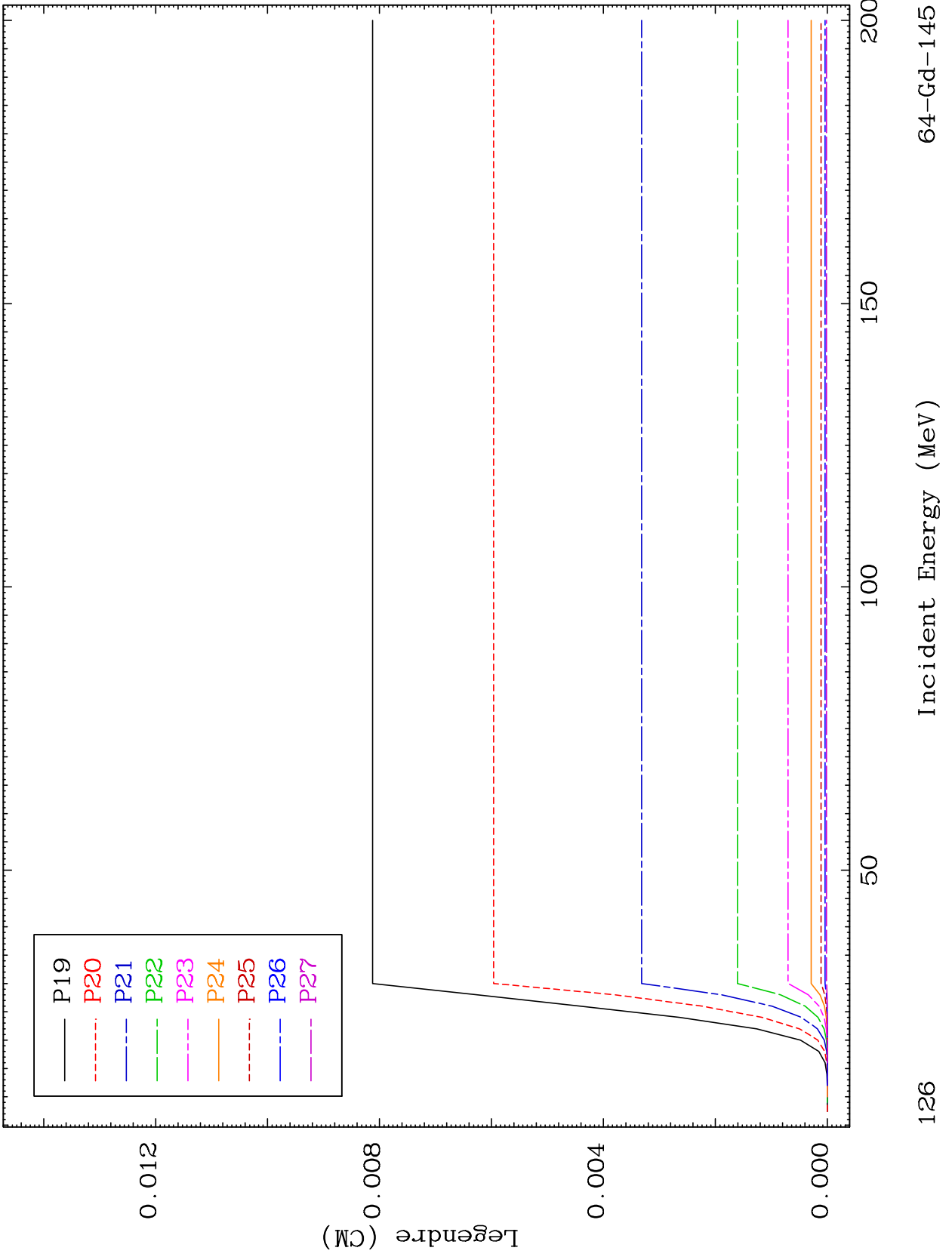
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



126

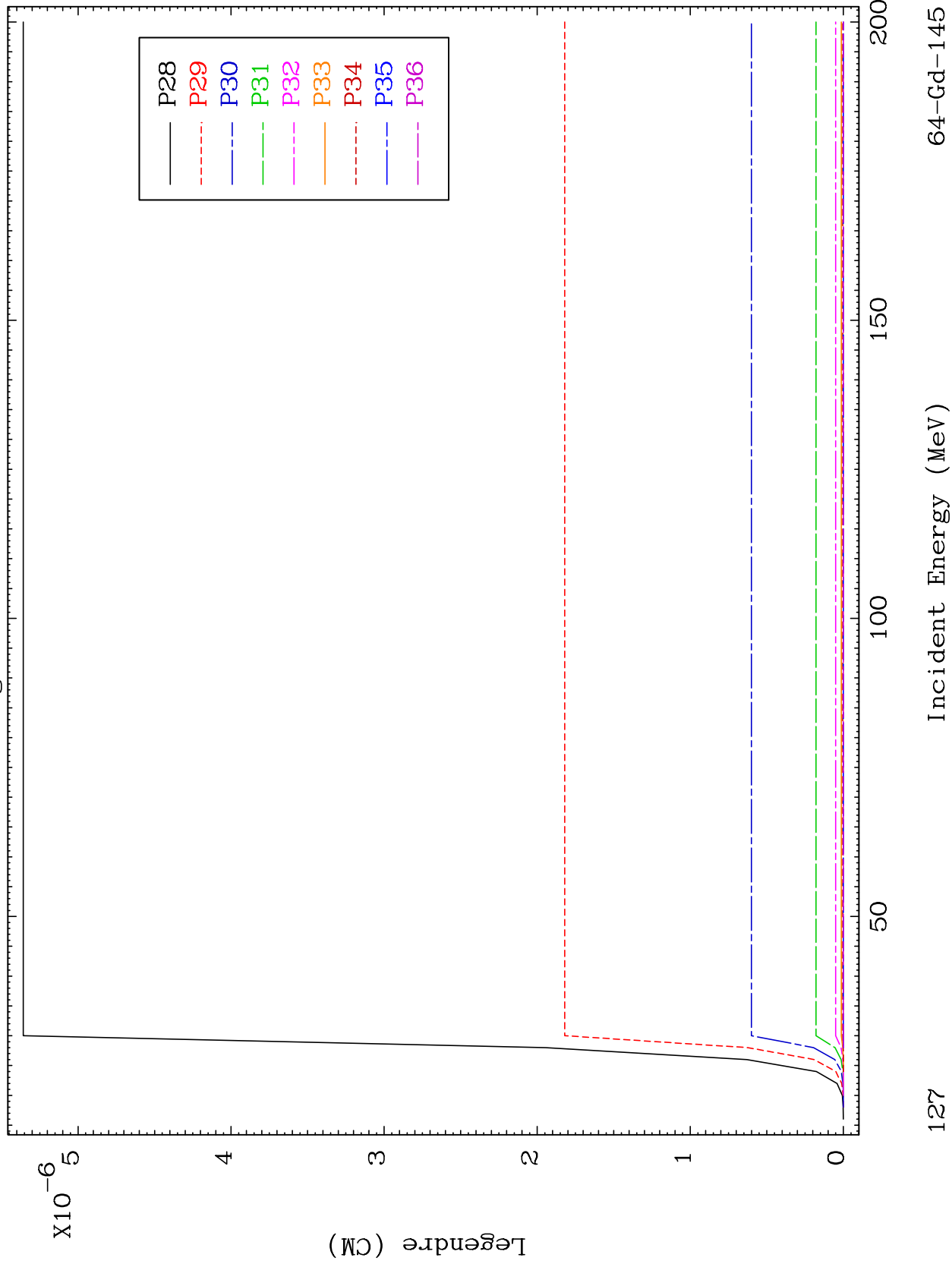
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



127

Incident Energy (MeV)

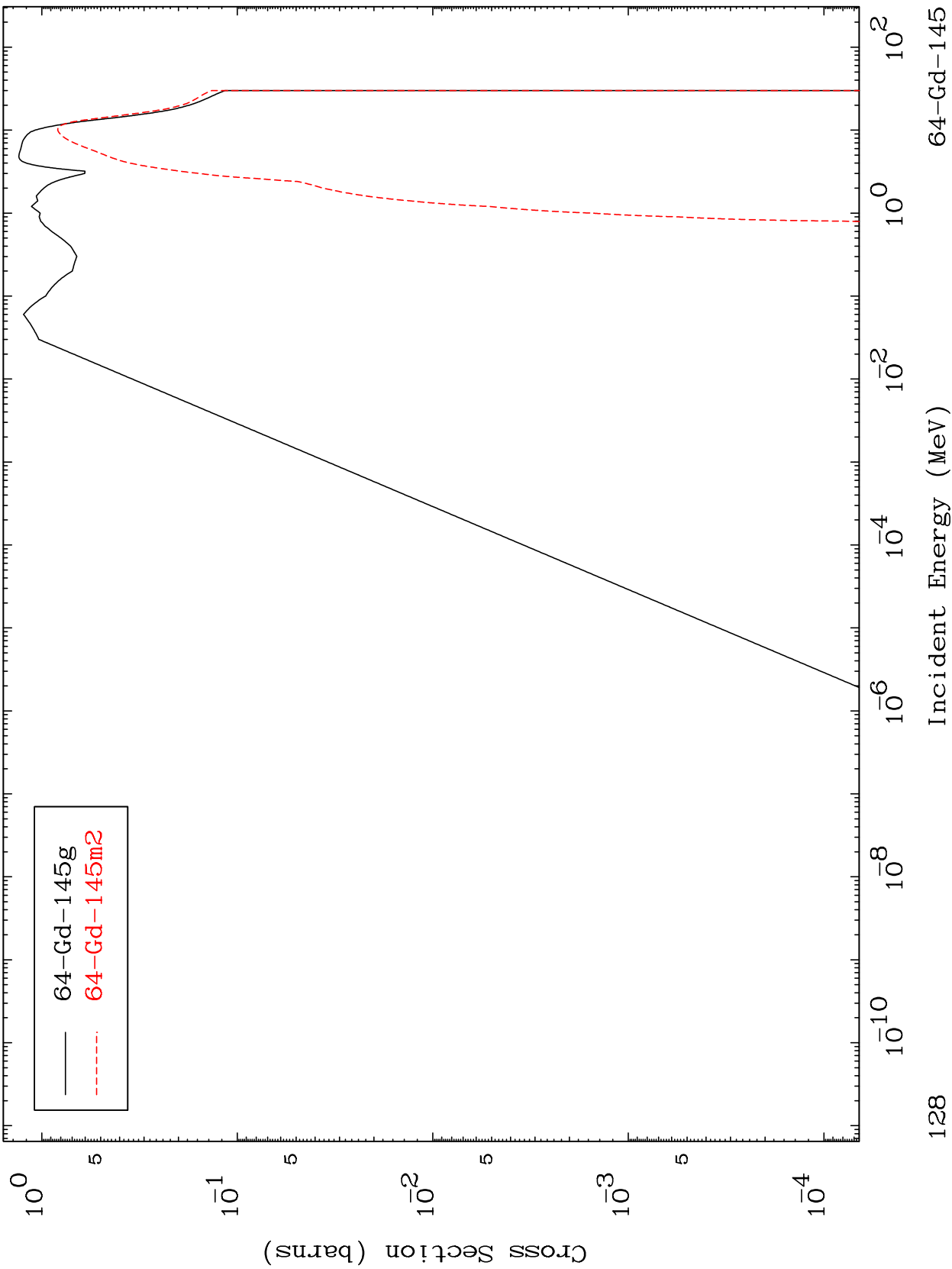
64-Gd-145



MAT 6404

64-Gd-145

Inelastic  
Radionuclide Production Cross Section



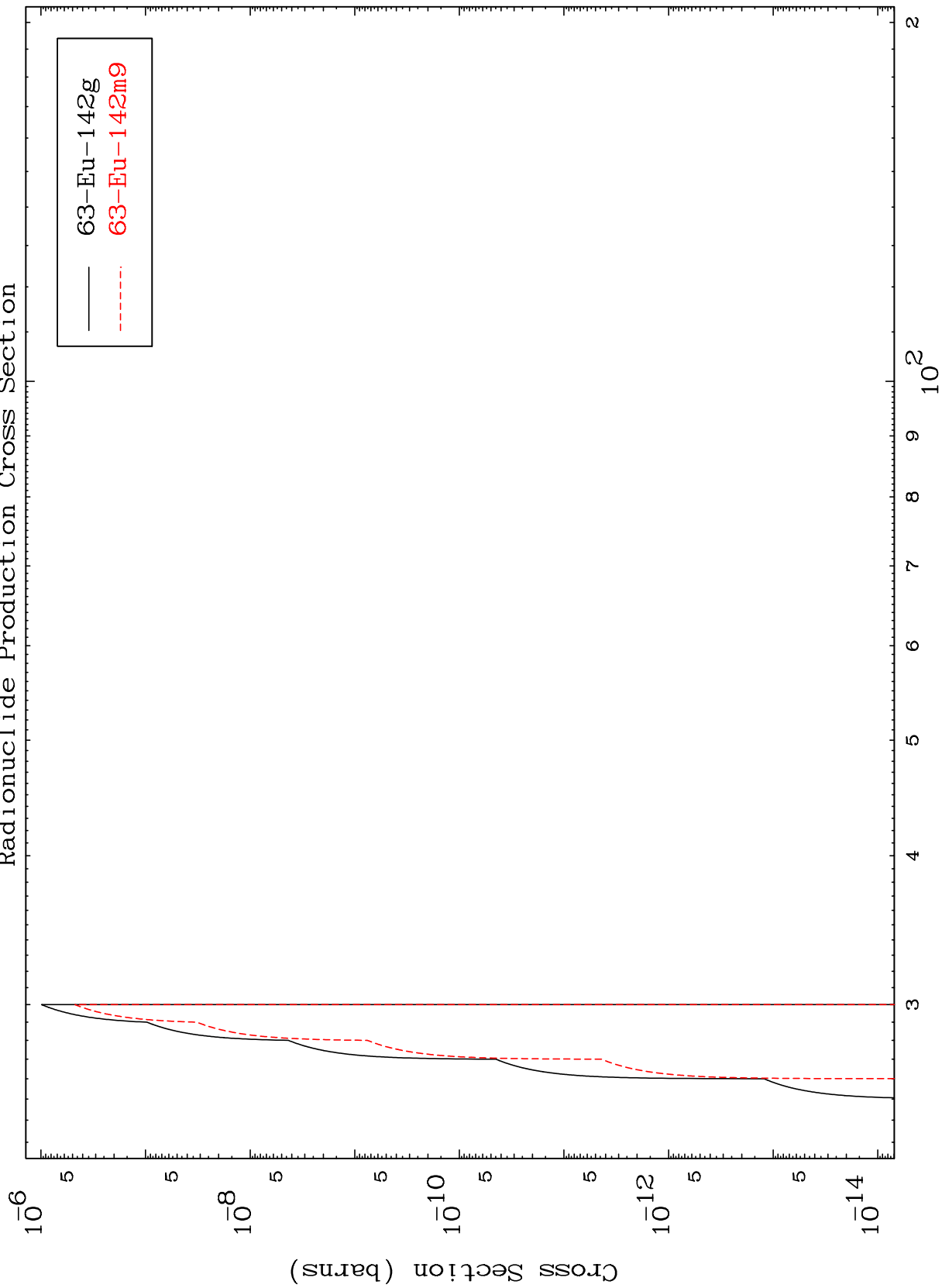
64-Gd-145g  
64-Gd-145m2

MAT 6404

(n,2n) d

64-Gd-145

Radionuclide Production Cross Section



129

Incident Energy (MeV)

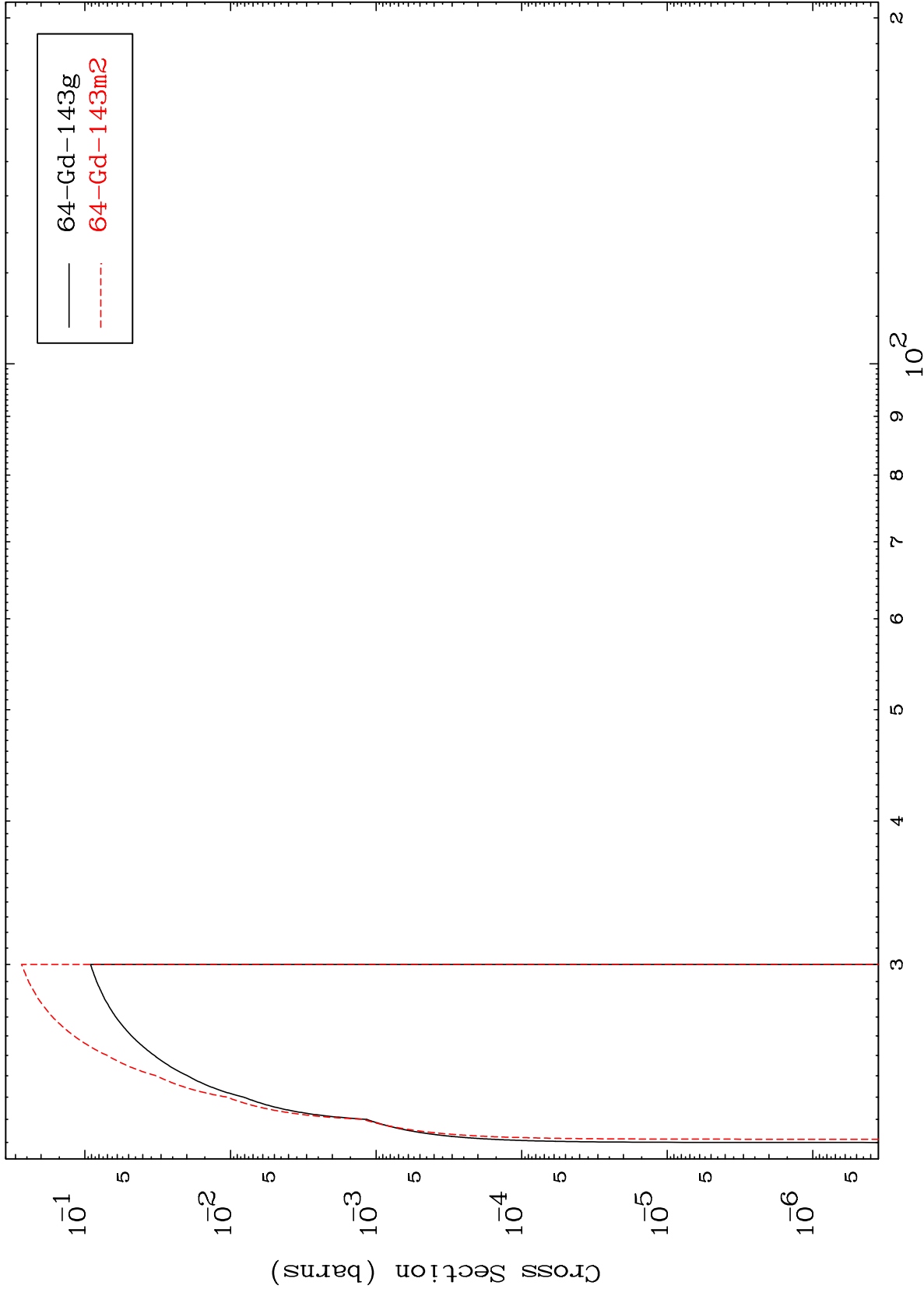
64-Gd-145

MAT 6404

(n,3n)

64-Gd-145

Radionuclide Production Cross Section



64-Gd-143g  
64-Gd-143m2

130

Incident Energy (MeV)

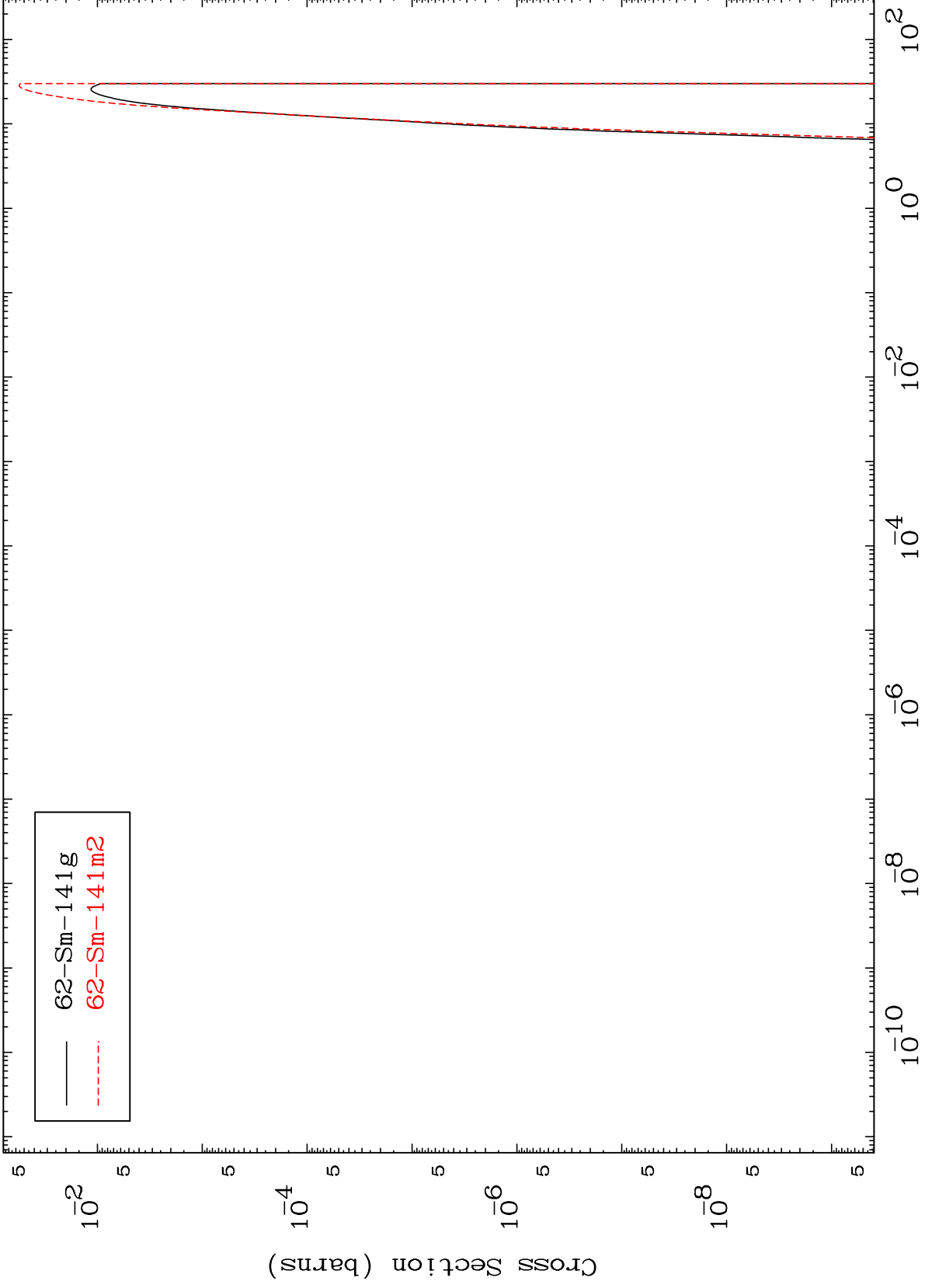
64-Gd-145

MAT 6404

$(n, n')$   $\alpha$

64-Gd-145

Radionuclide Production Cross Section



131

Incident Energy (MeV)

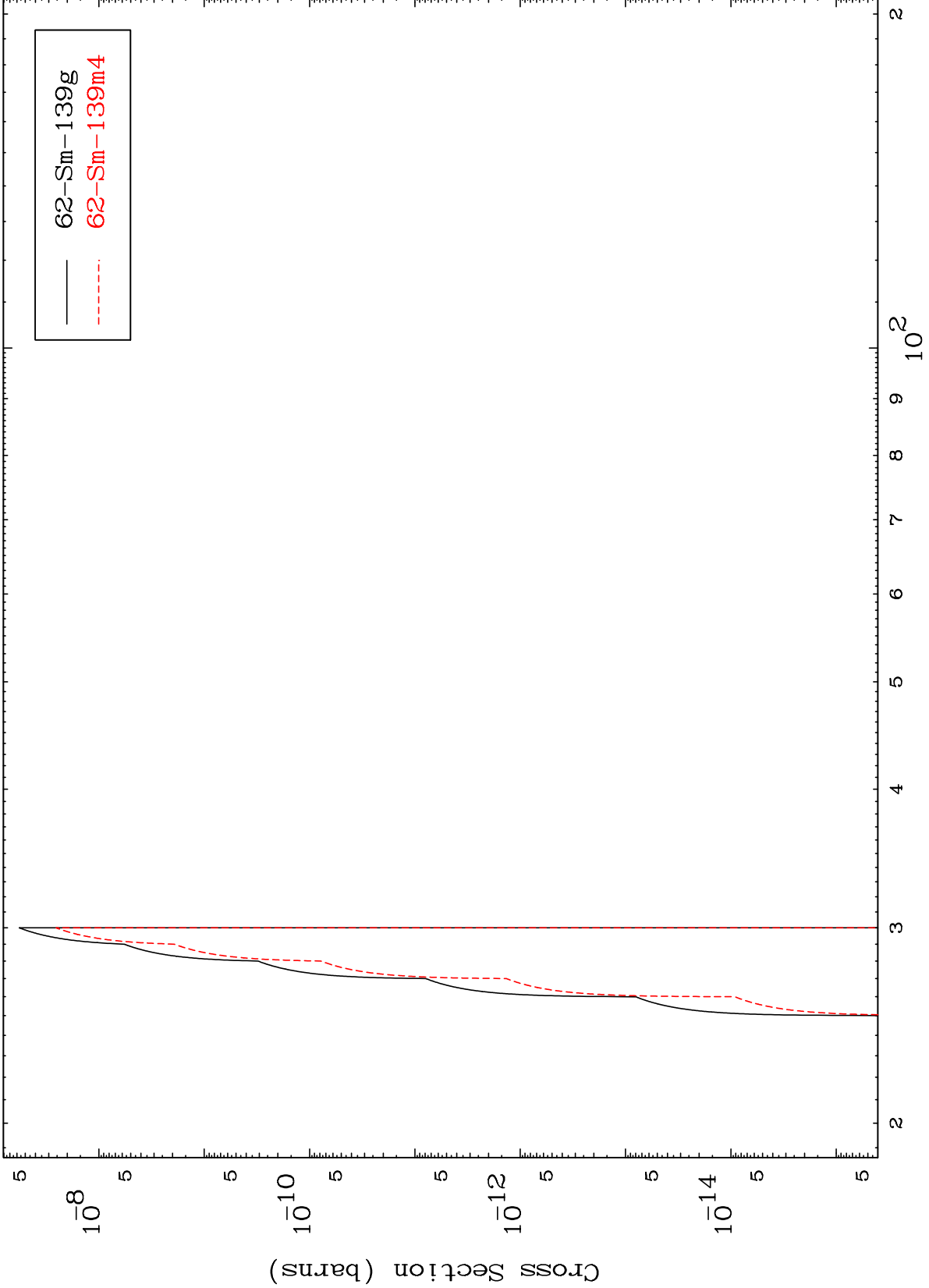
64-Gd-145

MAT 6404

$(n,3n) \alpha$

64-Gd-145

Radionuclide Production Cross Section



62-Sm-139g  
62-Sm-139m4

132

Incident Energy (MeV)

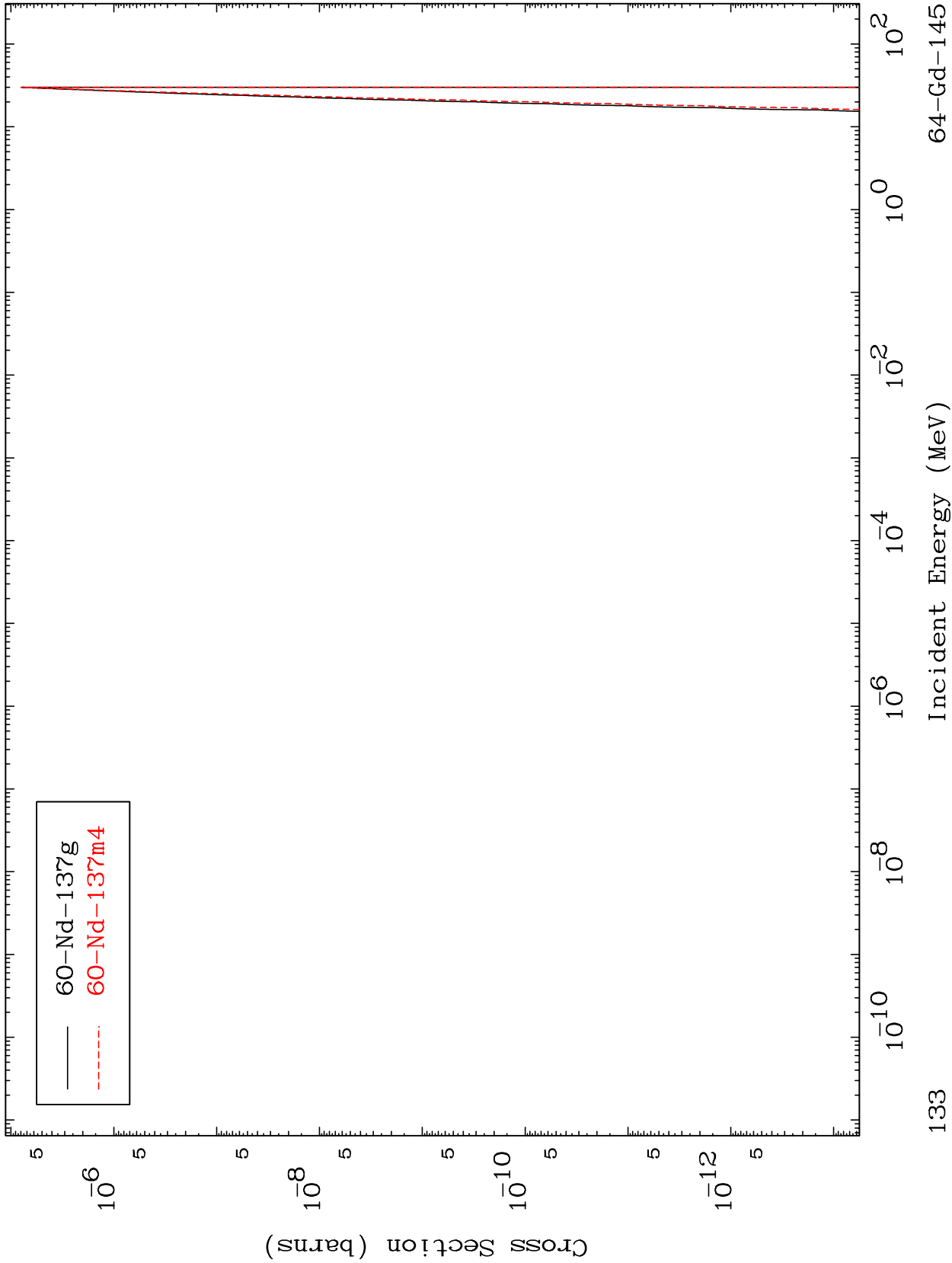
64-Gd-145

MAT 6404

(n,n') 2α

64-Gd-145

Radionuclide Production Cross Section



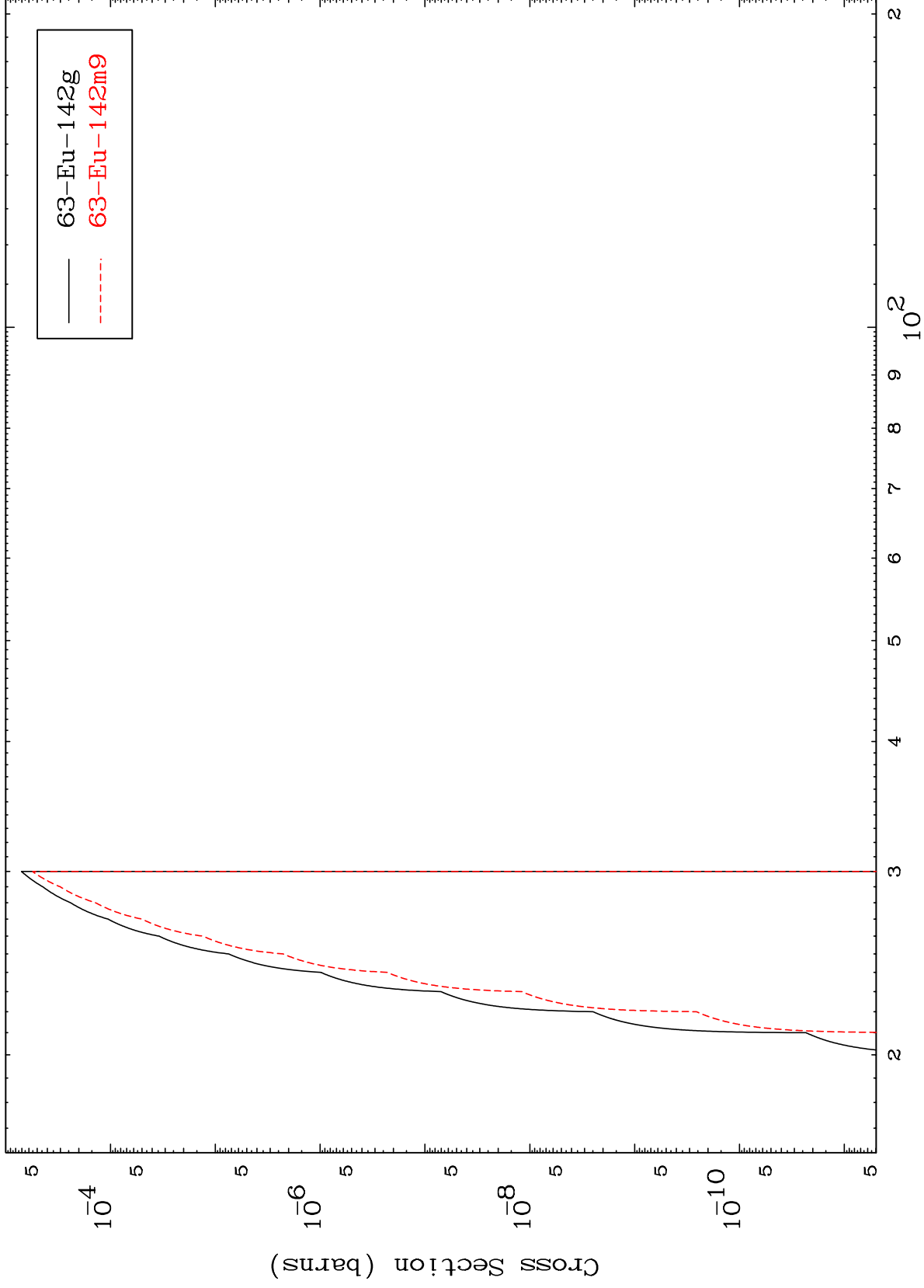
60-Nd-137g  
60-Nd-137m4

MAT 6404

(n,n') t

64-Gd-145

Radionuclide Production Cross Section



134

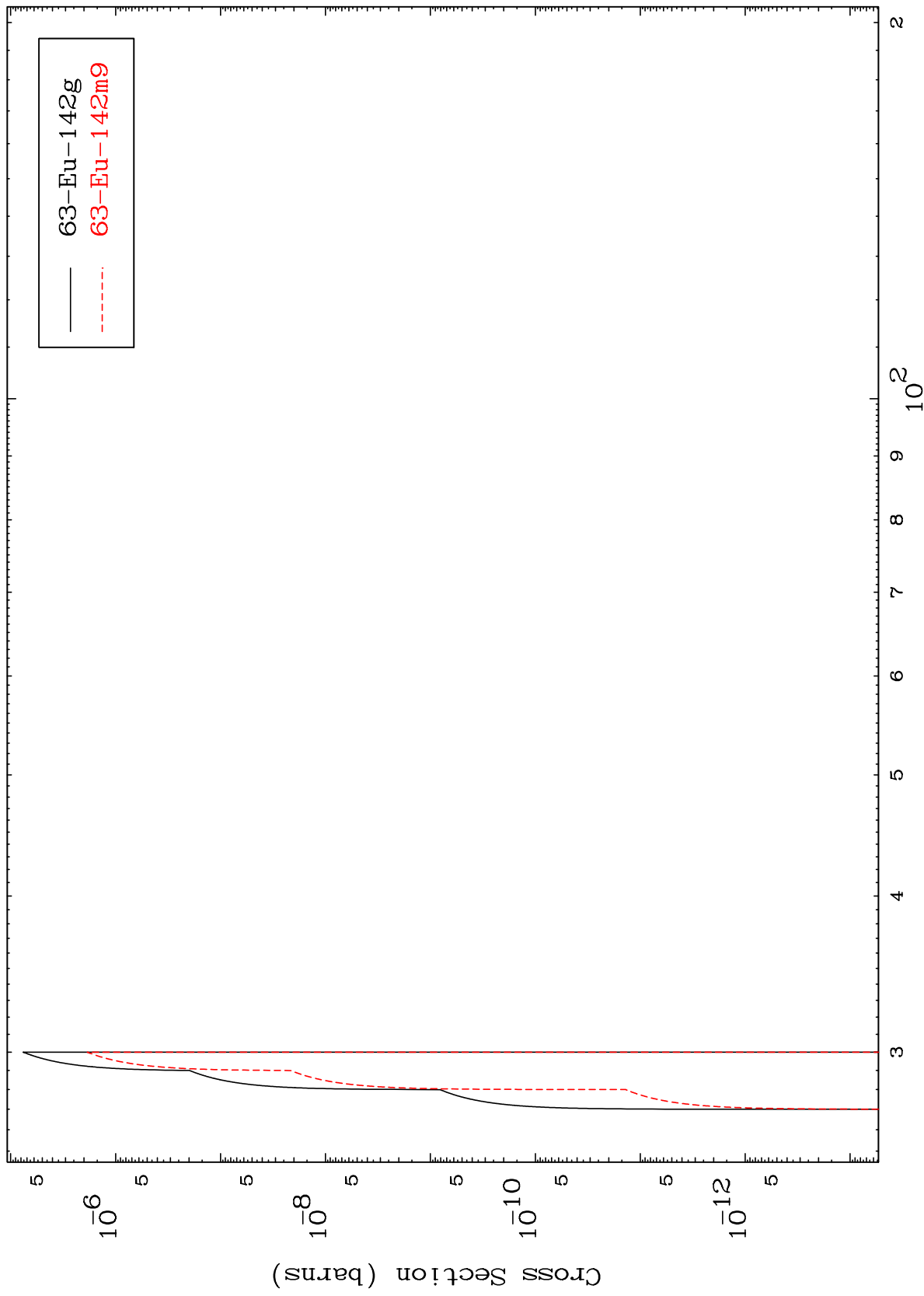
Incident Energy (MeV)

64-Gd-145

MAT 6404

64-Gd-145

(n,3n) p  
Radionuclide Production Cross Section



64-Gd-145

Incident Energy (MeV)

135

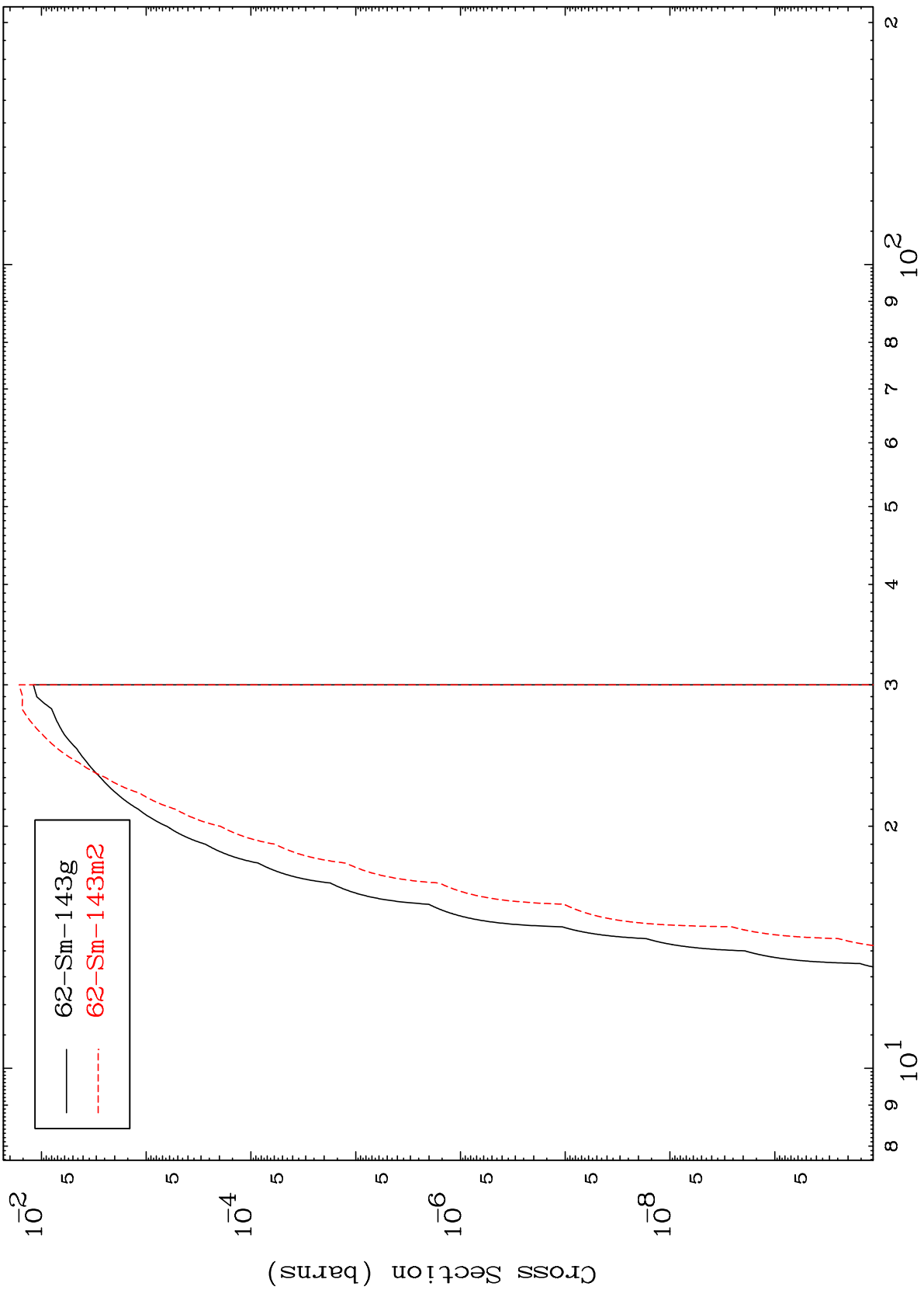


MAT 6404

(n,2n) p

64-Gd-145

Radionuclide Production Cross Section



62-Sm-143g  
62-Sm-143m2

136

Incident Energy (MeV)

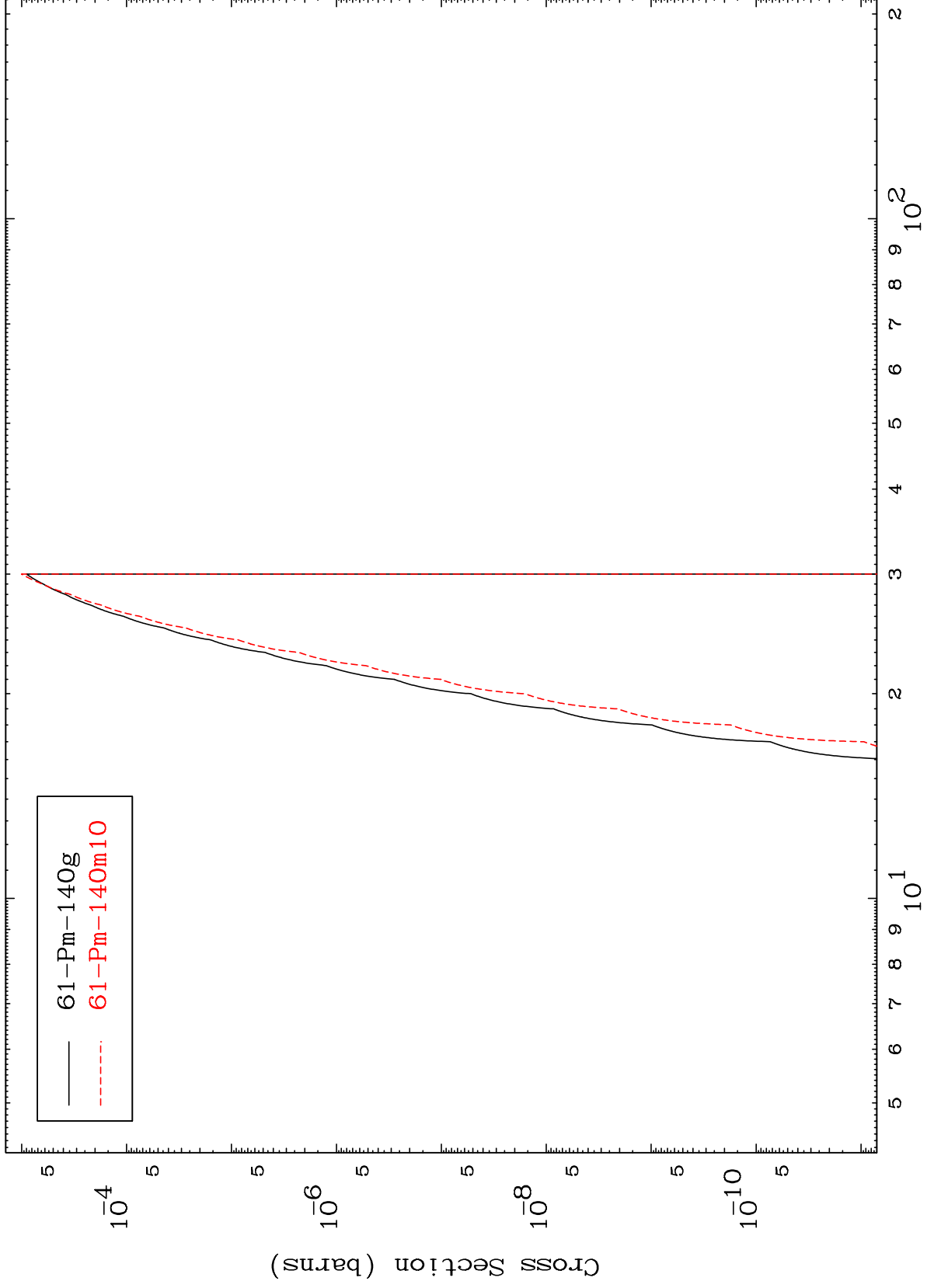
64-Gd-145

MAT 6404

(n,n') p  $\alpha$

64-Gd-145

Radionuclide Production Cross Section



137

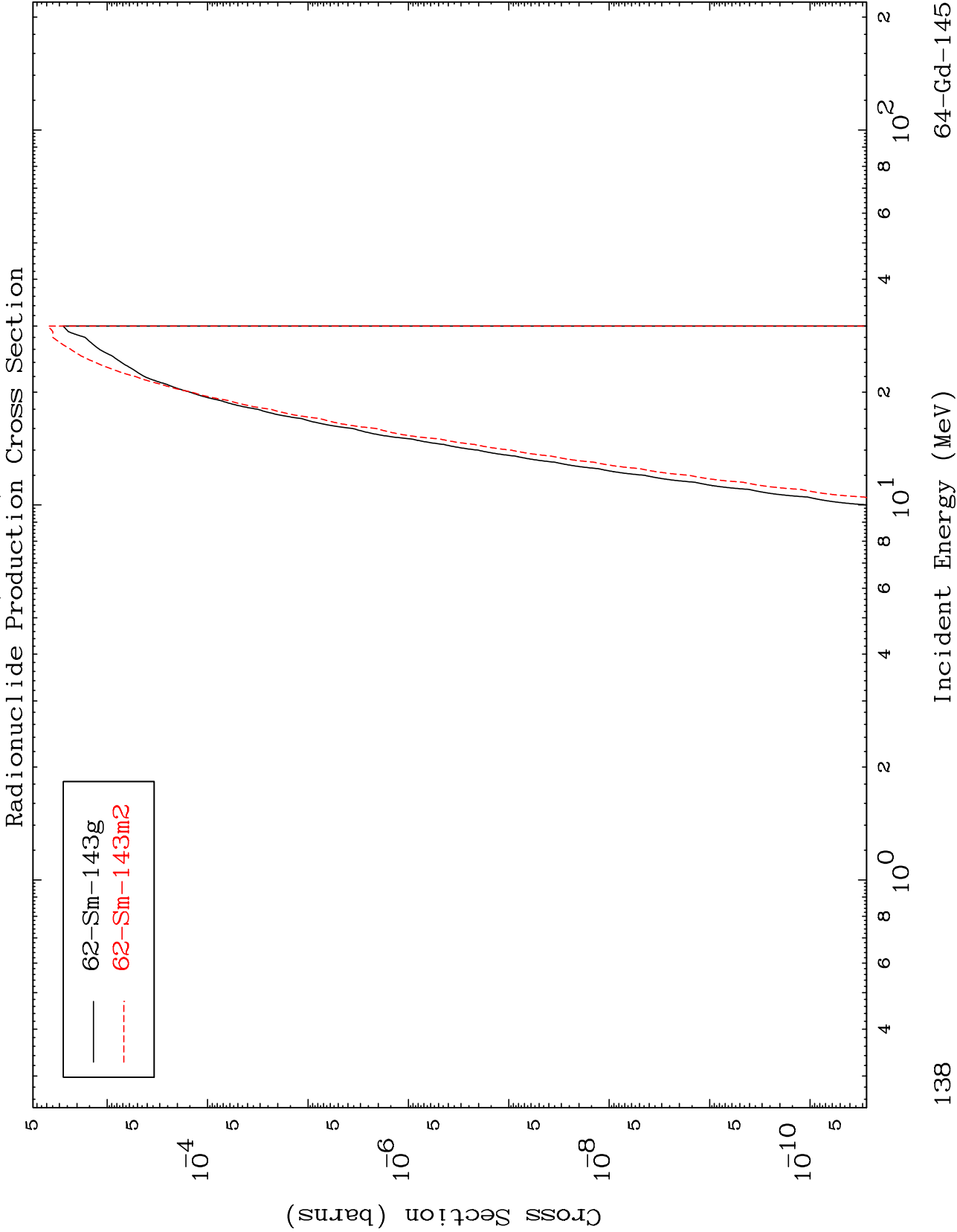
Incident Energy (MeV)

64-Gd-145

MAT 6404

(n,He-3)

64-Gd-145

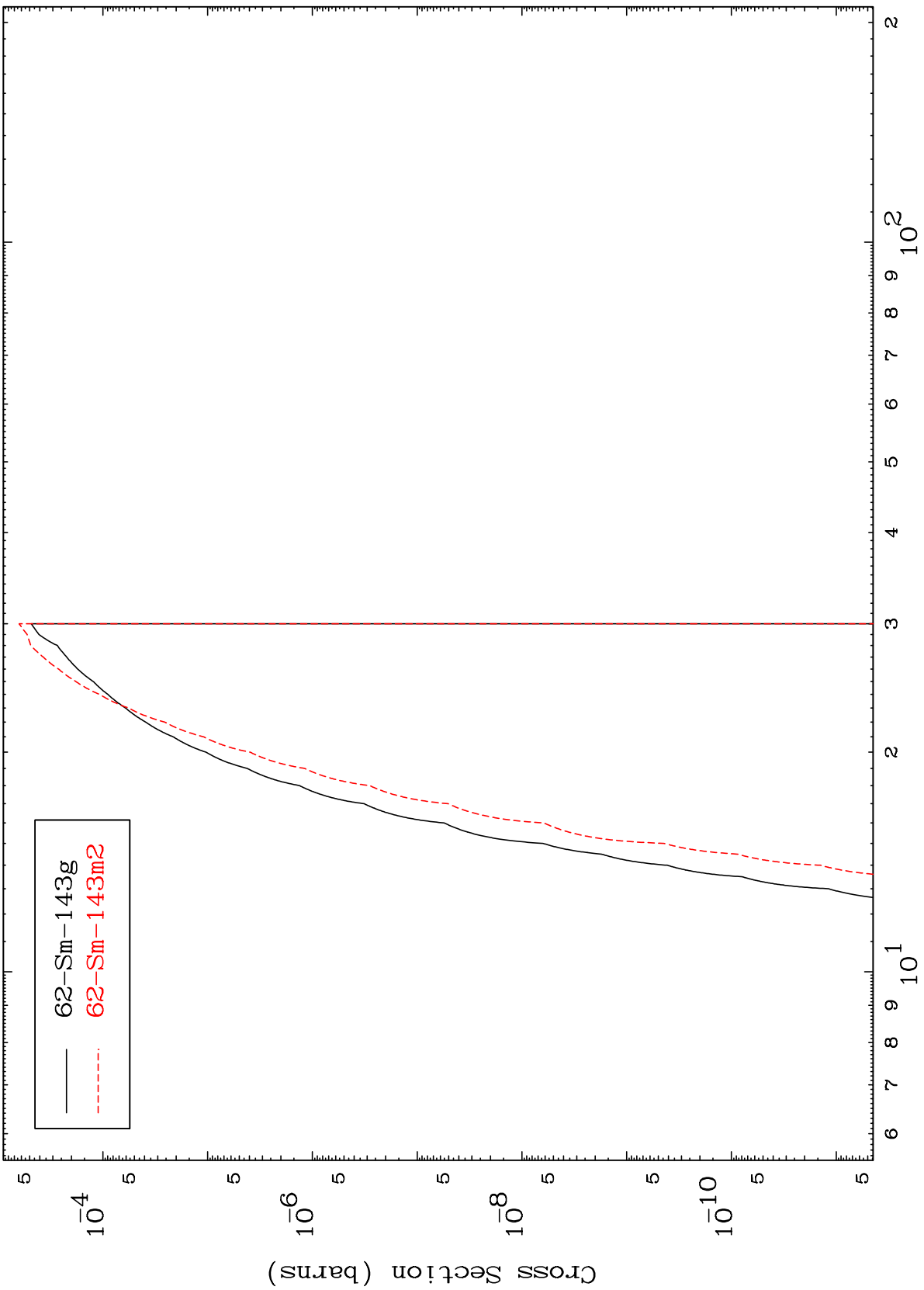


MAT 6404

(n,p) d

64-Gd-145

Radionuclide Production Cross Section



139

Incident Energy (MeV)

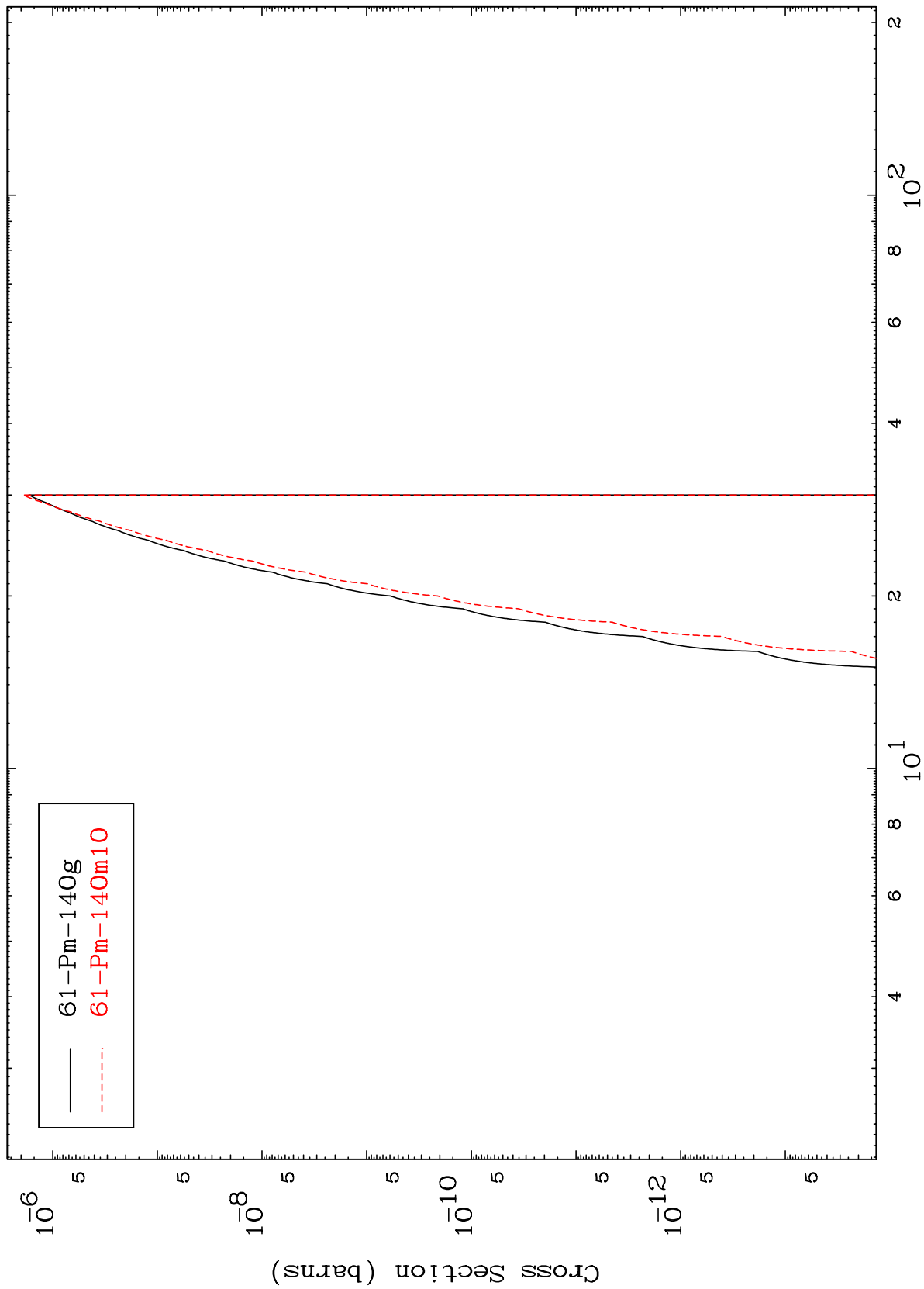
64-Gd-145

MAT 6404

(n,d)  $\alpha$

64-Gd-145

Radionuclide Production Cross Section



— 61-Pm-140g  
- - - 61-Pm-140m10

140

Incident Energy (MeV)

64-Gd-145