

Program EVALPLOT  
(Version 2017-1)

by

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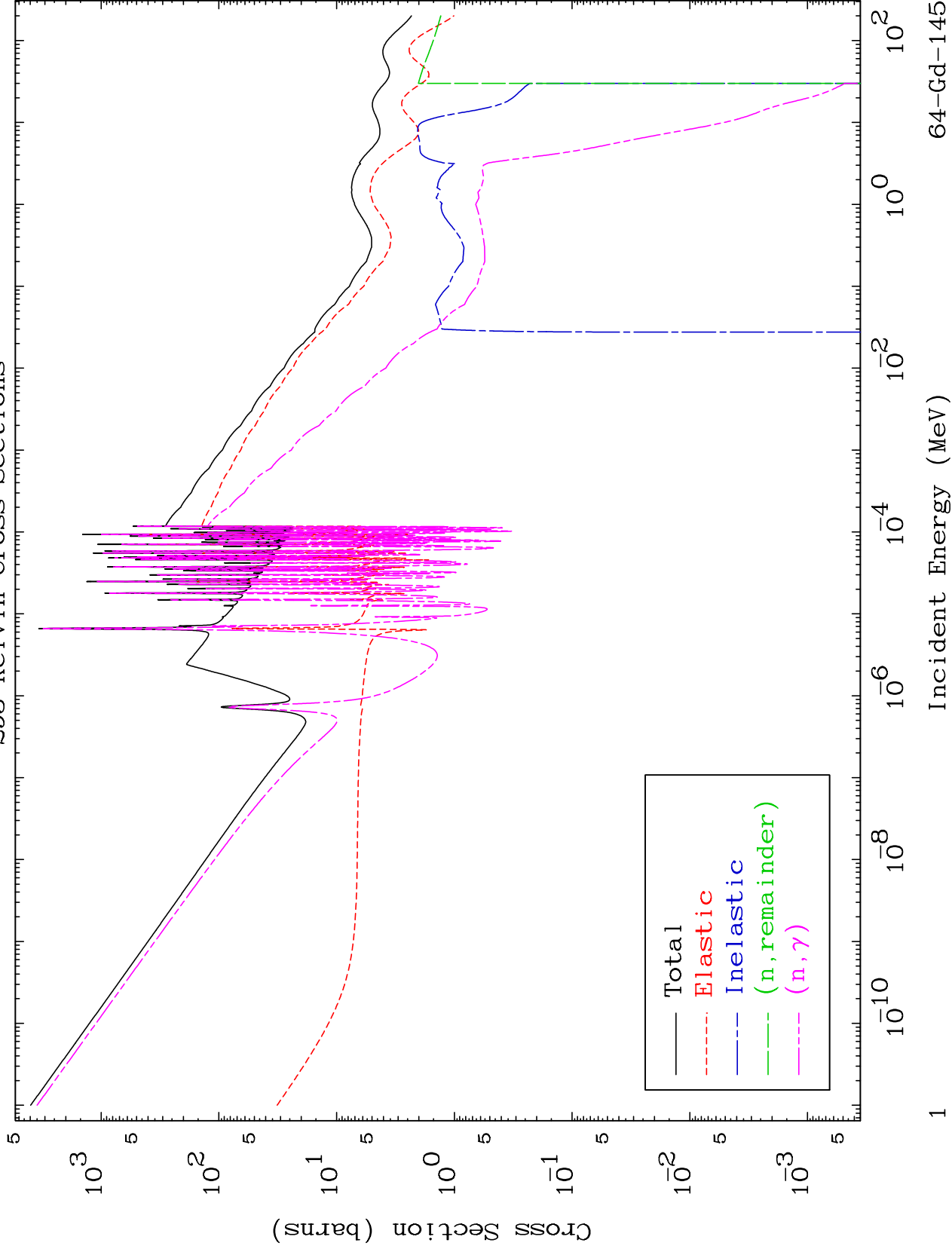
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6404

Major  
293 Kelvin Cross Sections

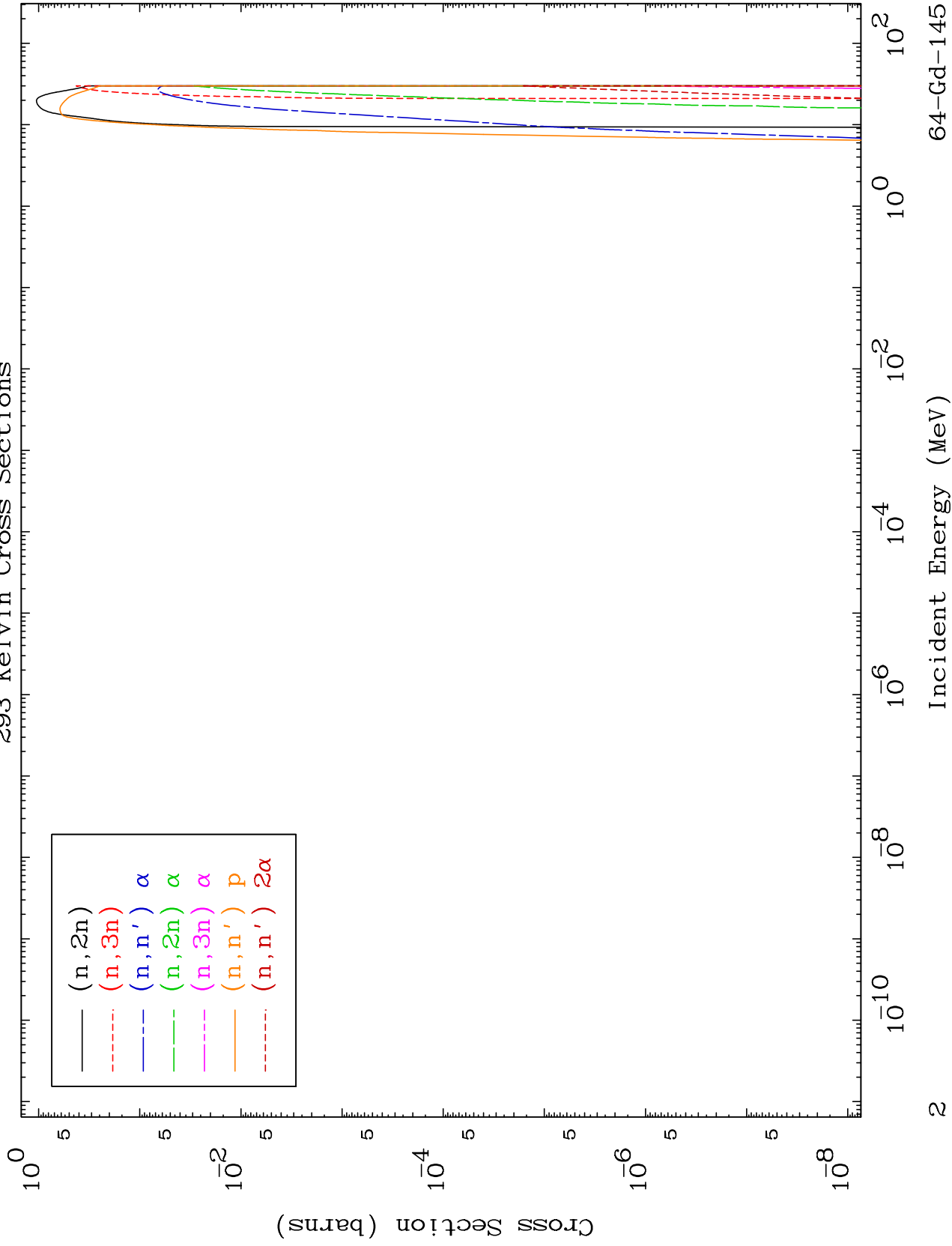
64-Gd-145

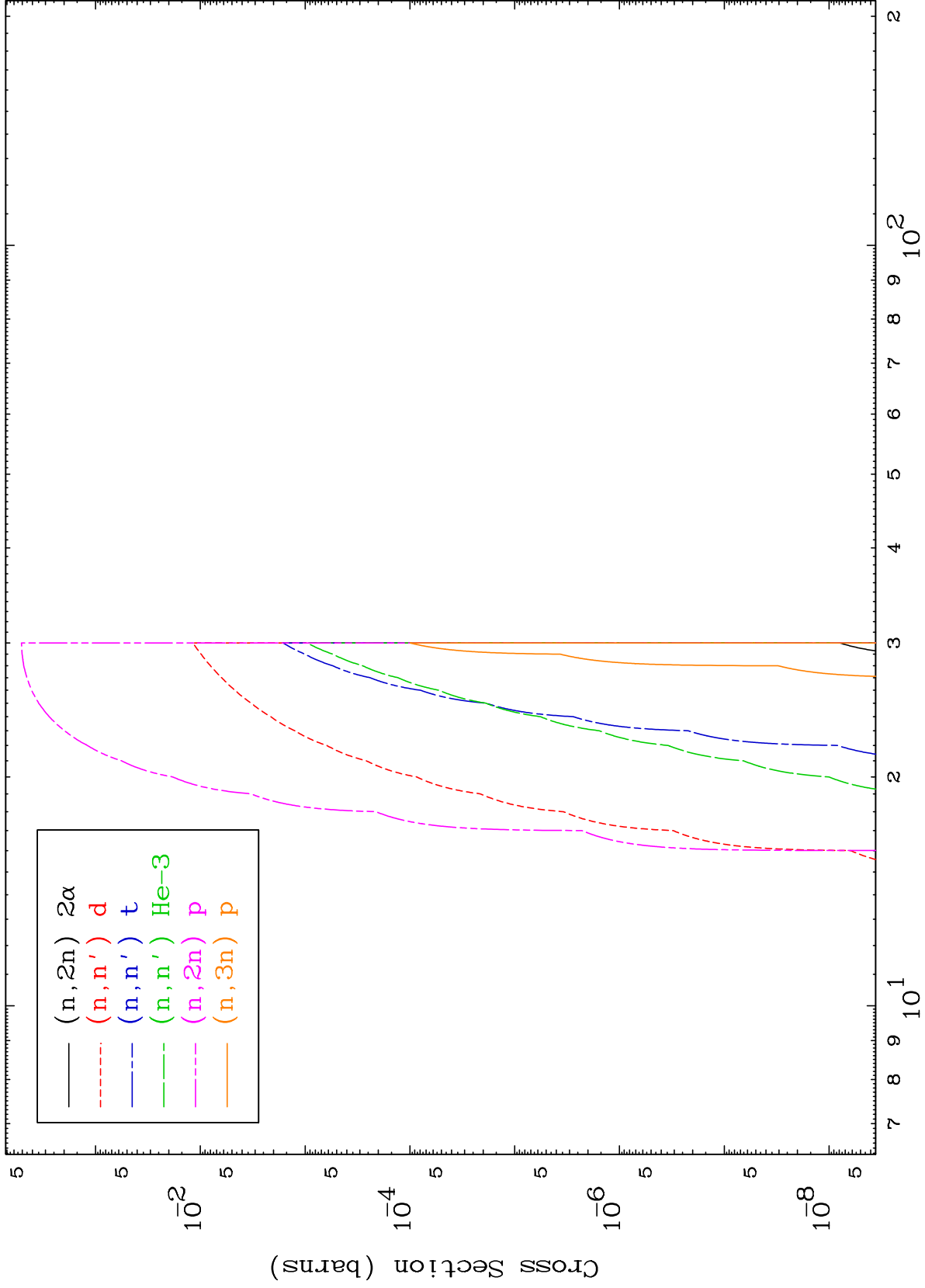


MAT 6404

Neutron Production  
293 Kelvin Cross Sections

64-Gd-145

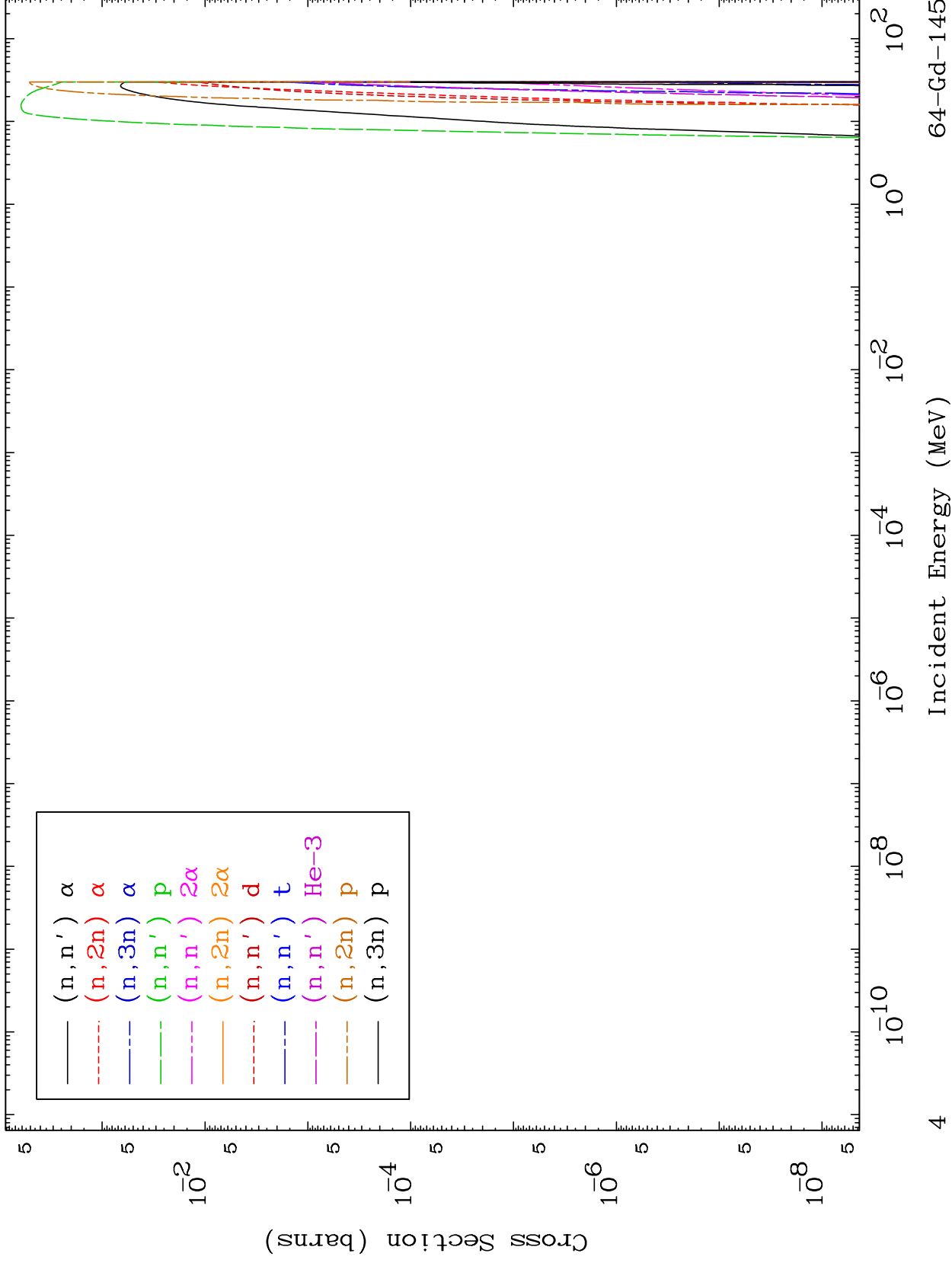




MAT 6404

Charged Particle  
293 Kelvin Cross Sections

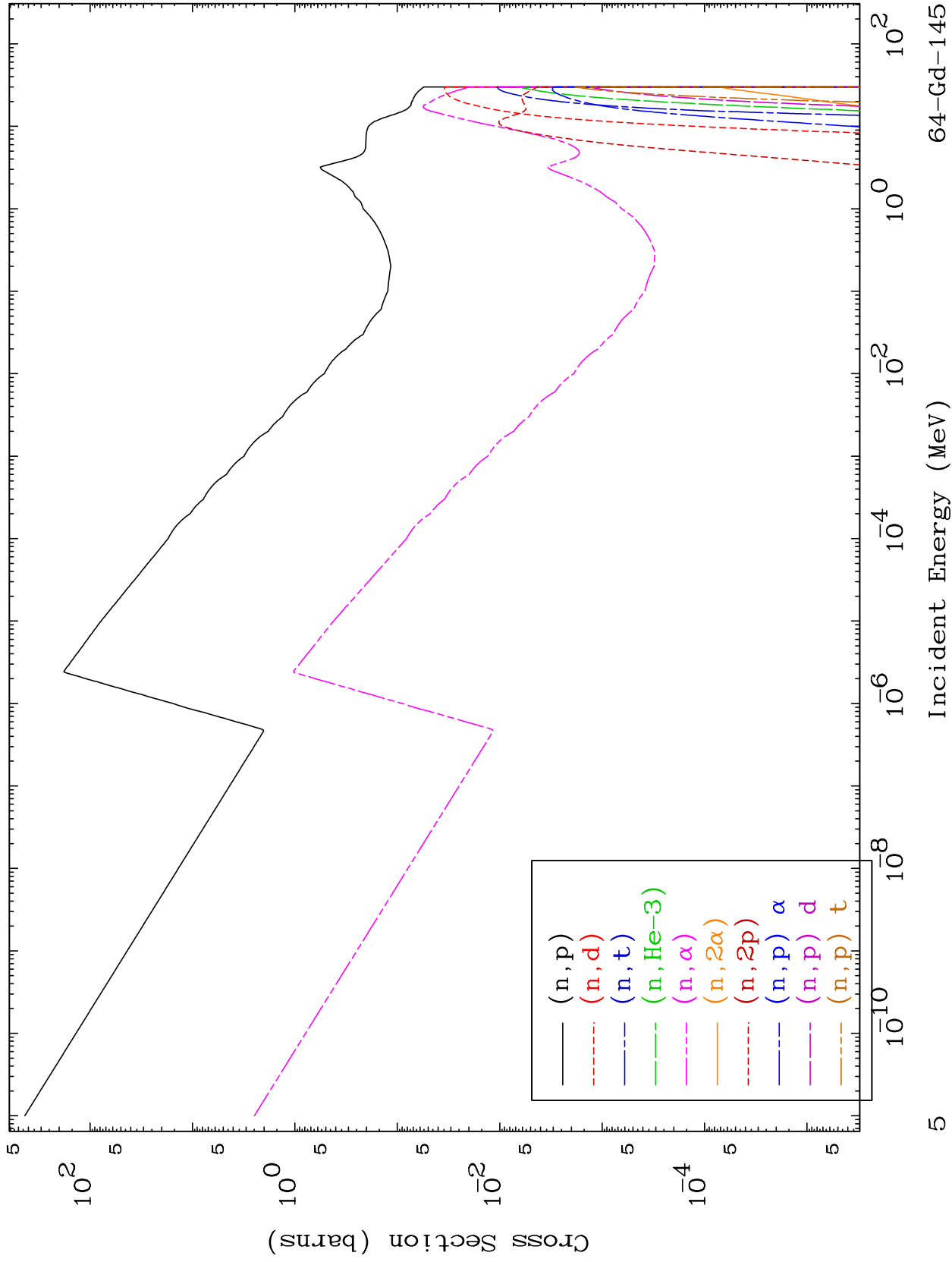
64-Gd-145



MAT 6404

Charged Particle  
293 Kelvin Cross Sections

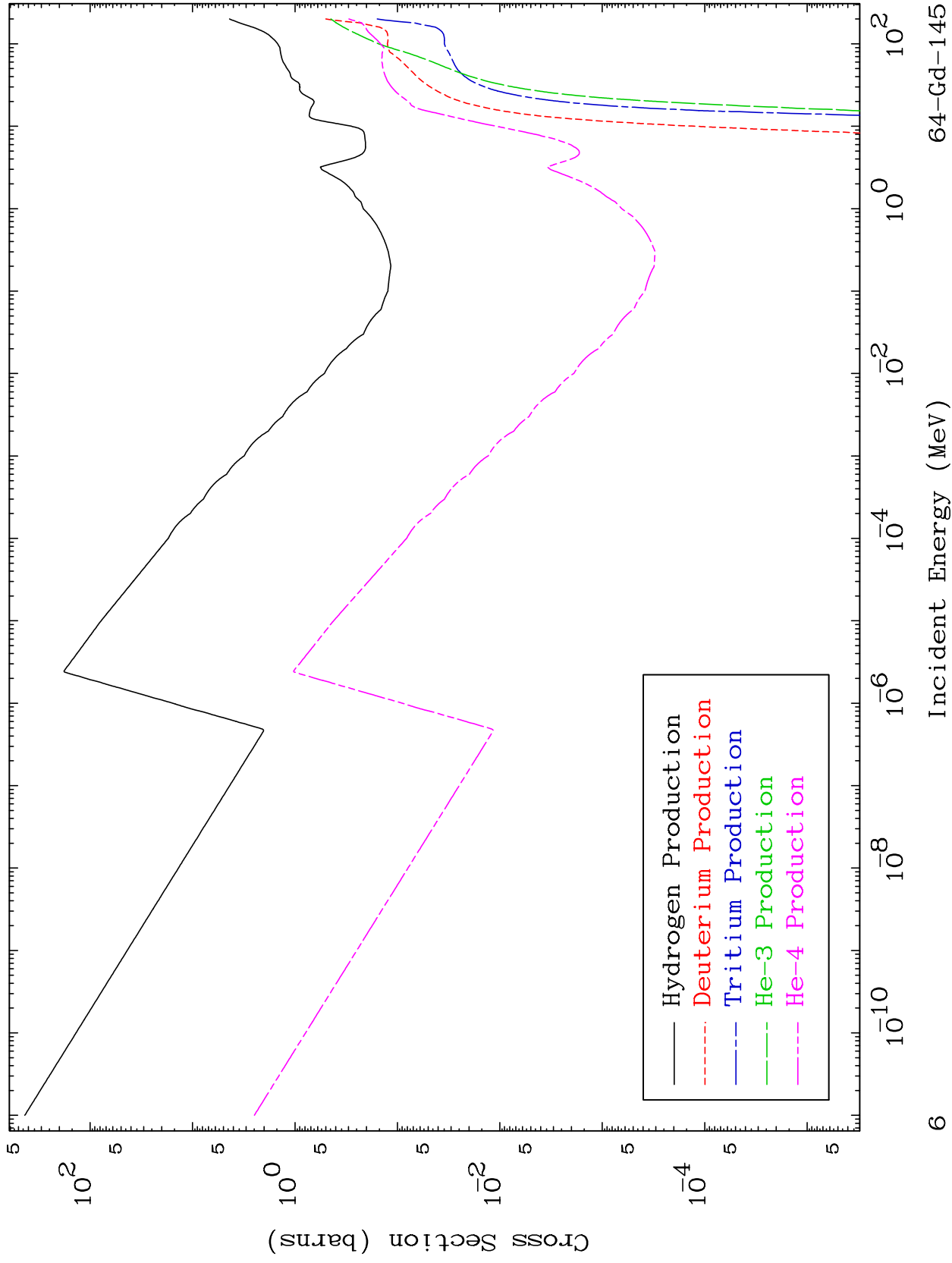
64-Gd-145



MAT 6404

Particle Production  
293 Kelvin Cross Sections

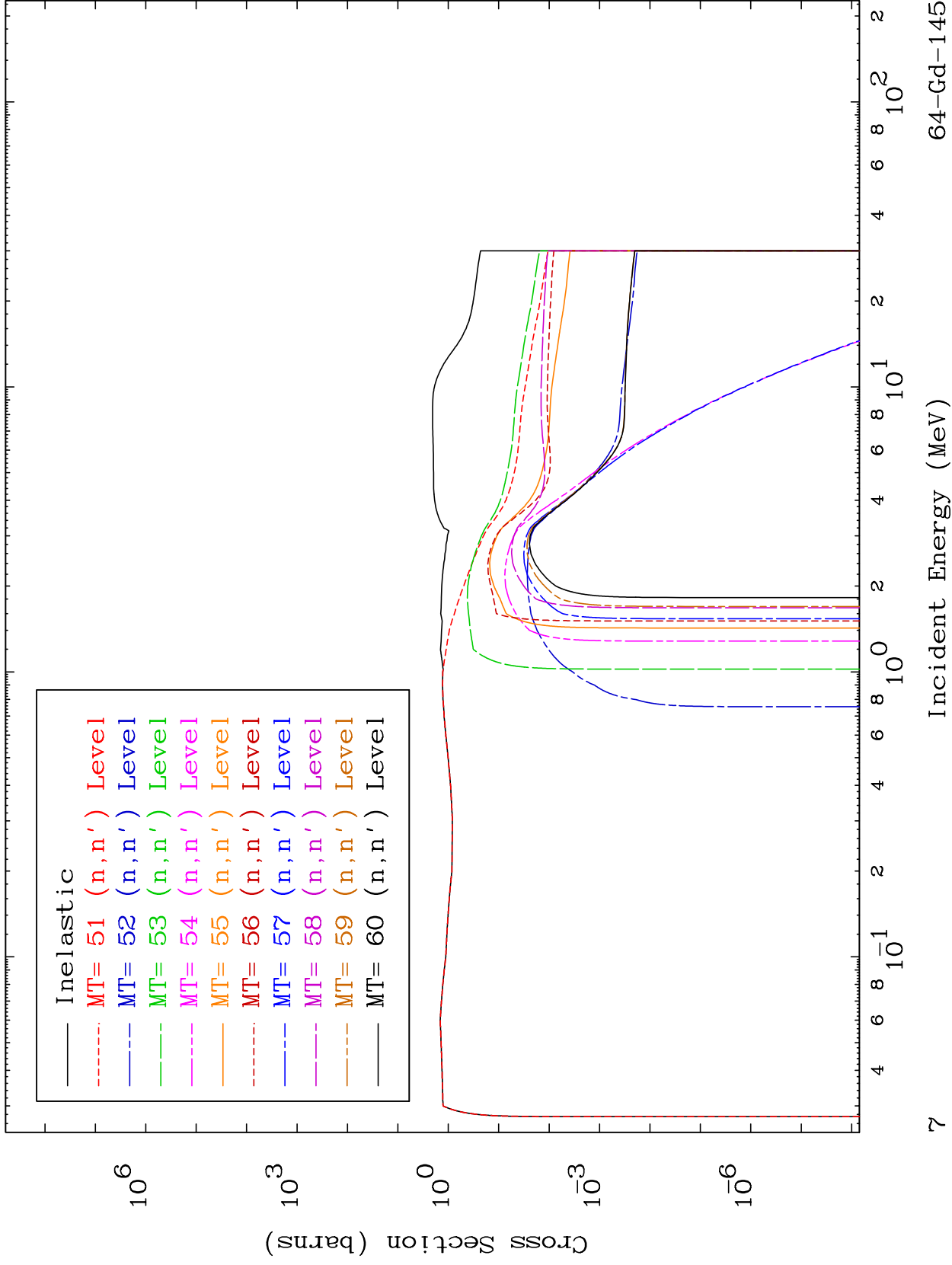
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MAT 6404

(n,n') Level  
293 Kelvin Cross Sections

64-Gd-145



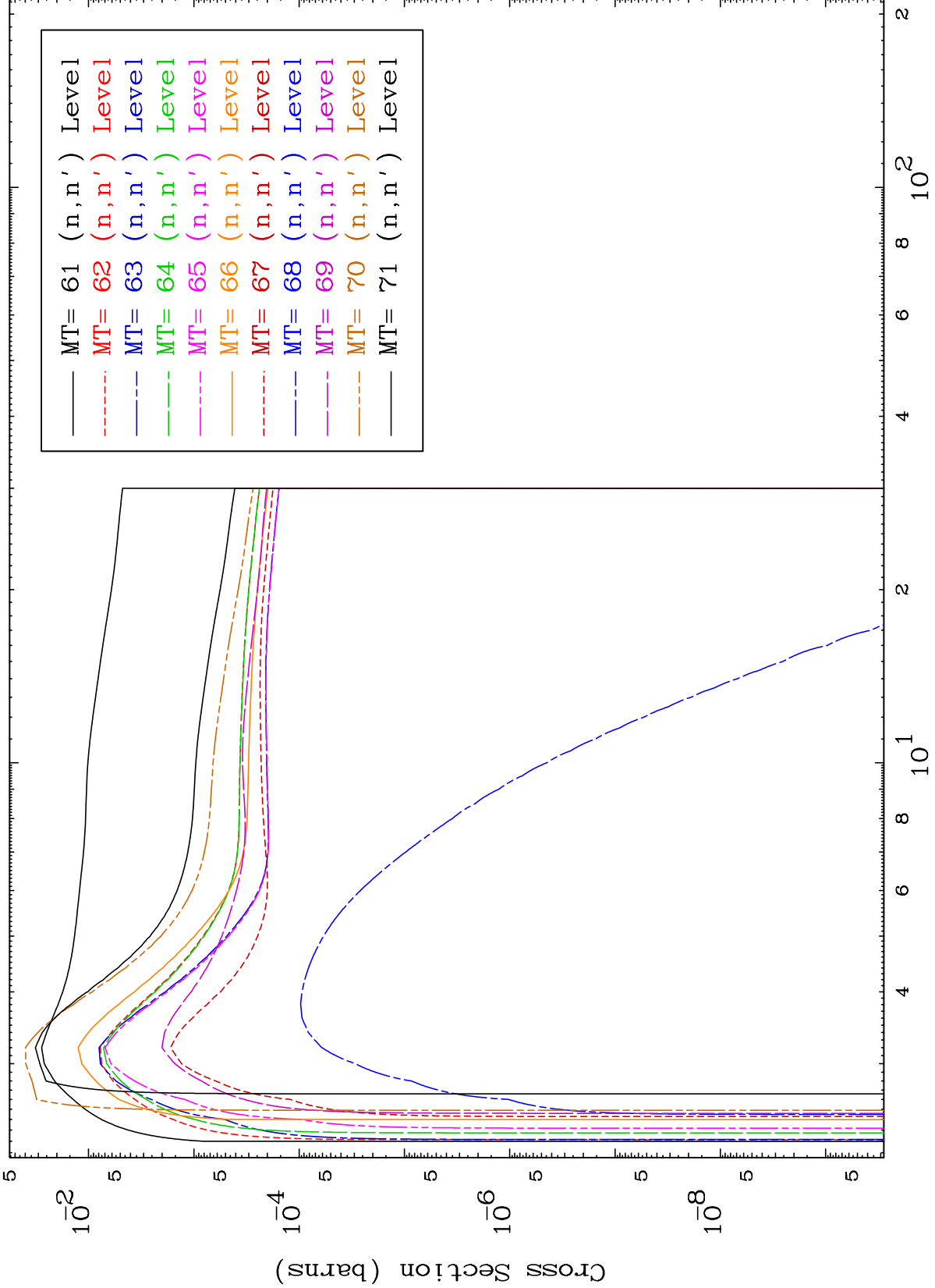


MAT 6404

(n,n') Level

64-Gd-145

293 Kelvin Cross Sections



8

Incident Energy (MeV)

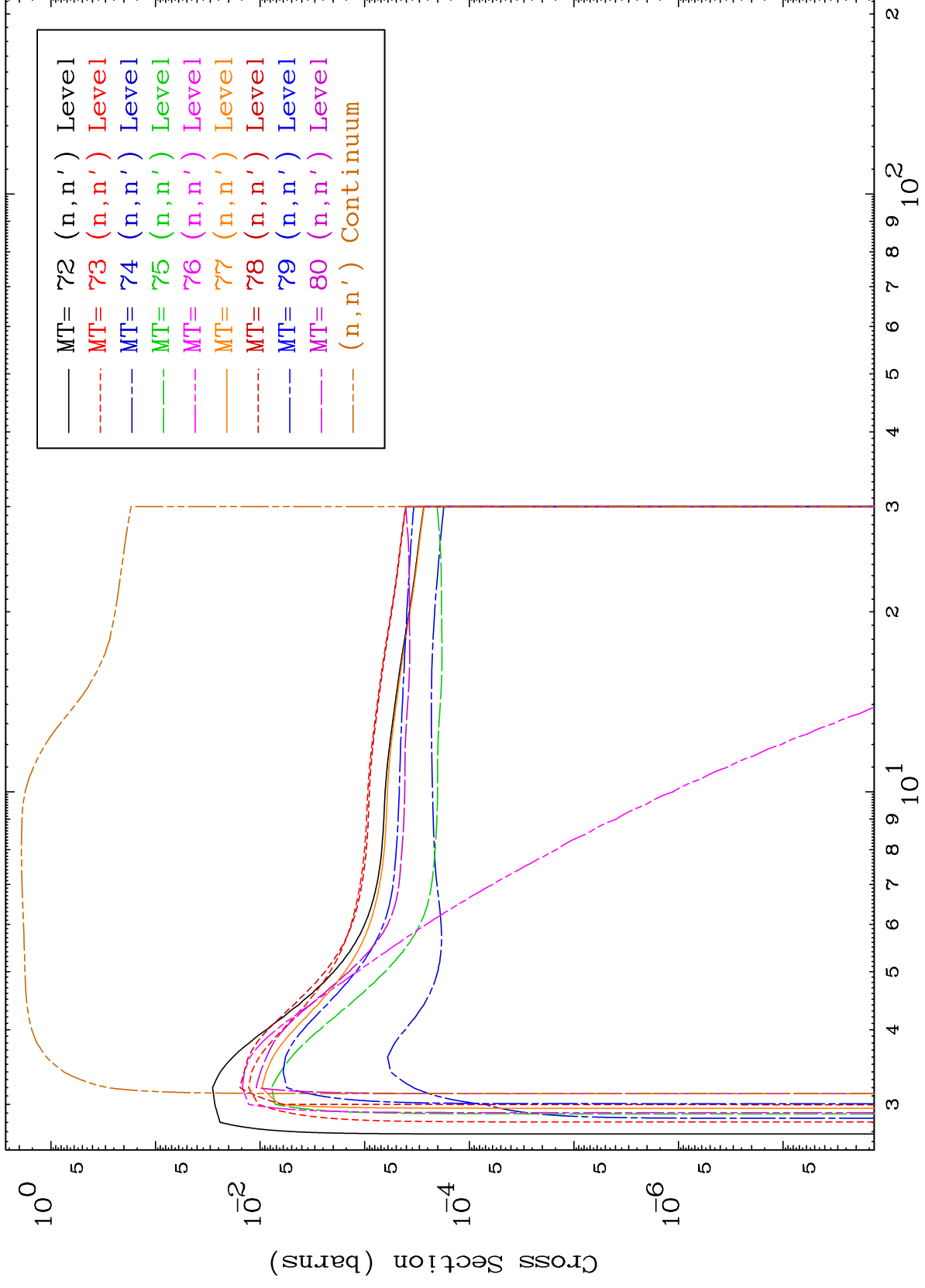
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MAT 6404

(n,n') Level

64-Gd-145

293 Kelvin Cross Sections



9

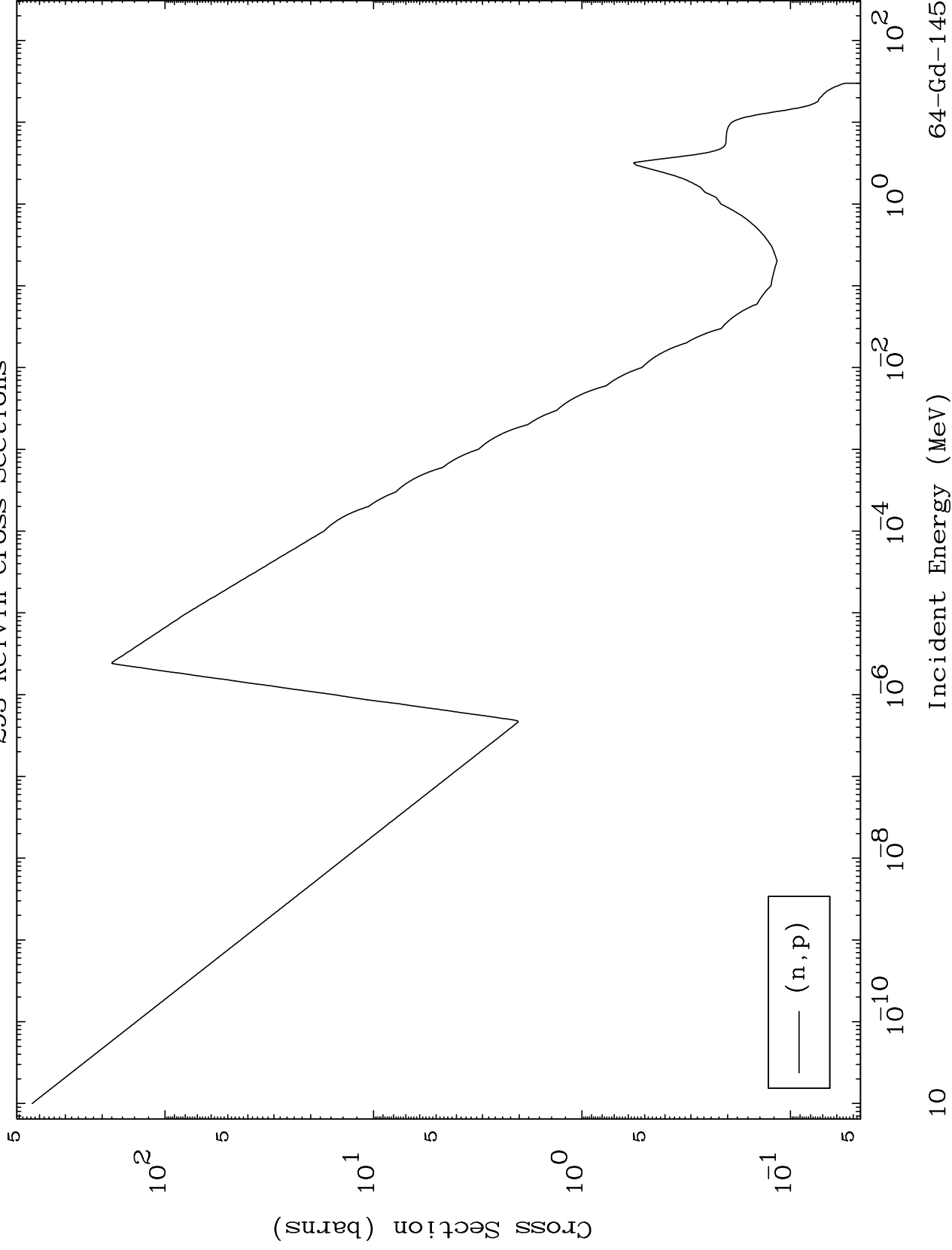
Incident Energy (MeV)

64-Gd-145

MAT 6404

(n,p) Levels  
293 Kelvin Cross Sections

64-Gd-145



10

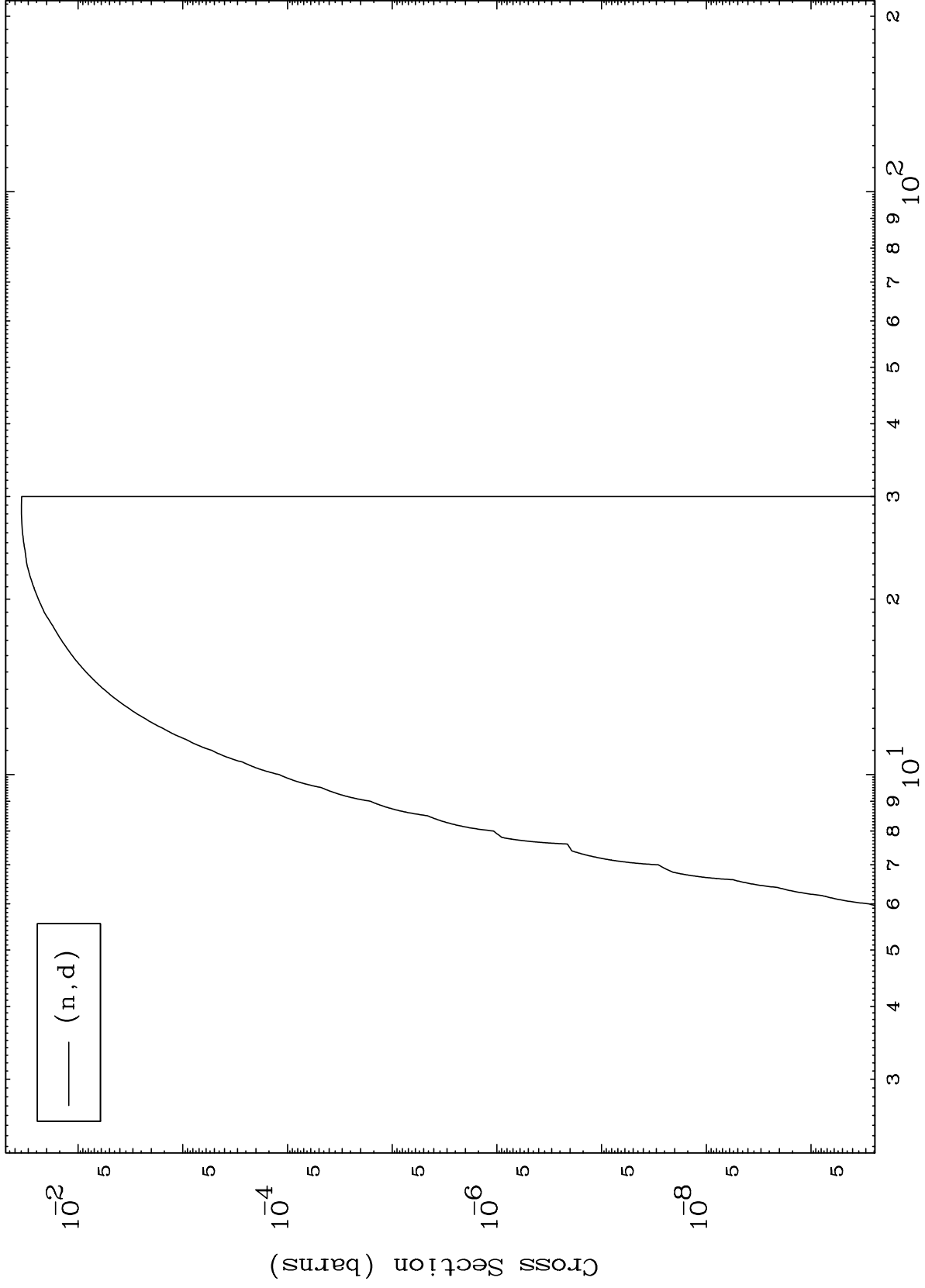
Incident Energy (MeV)

64-Gd-145

MAT 6404

(n,d) Levels  
293 Kelvin Cross Sections

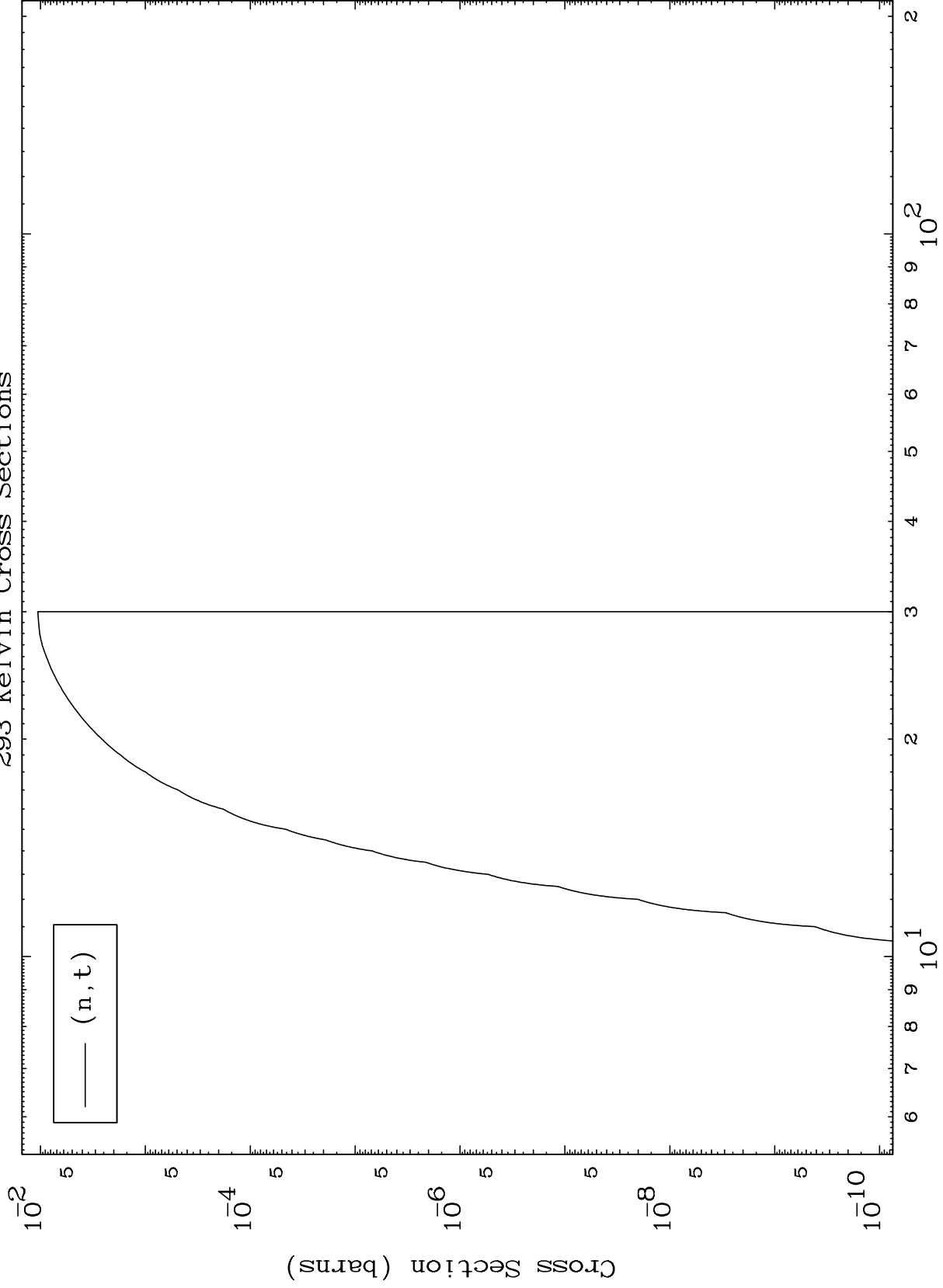
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MAT 6404

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-145



12

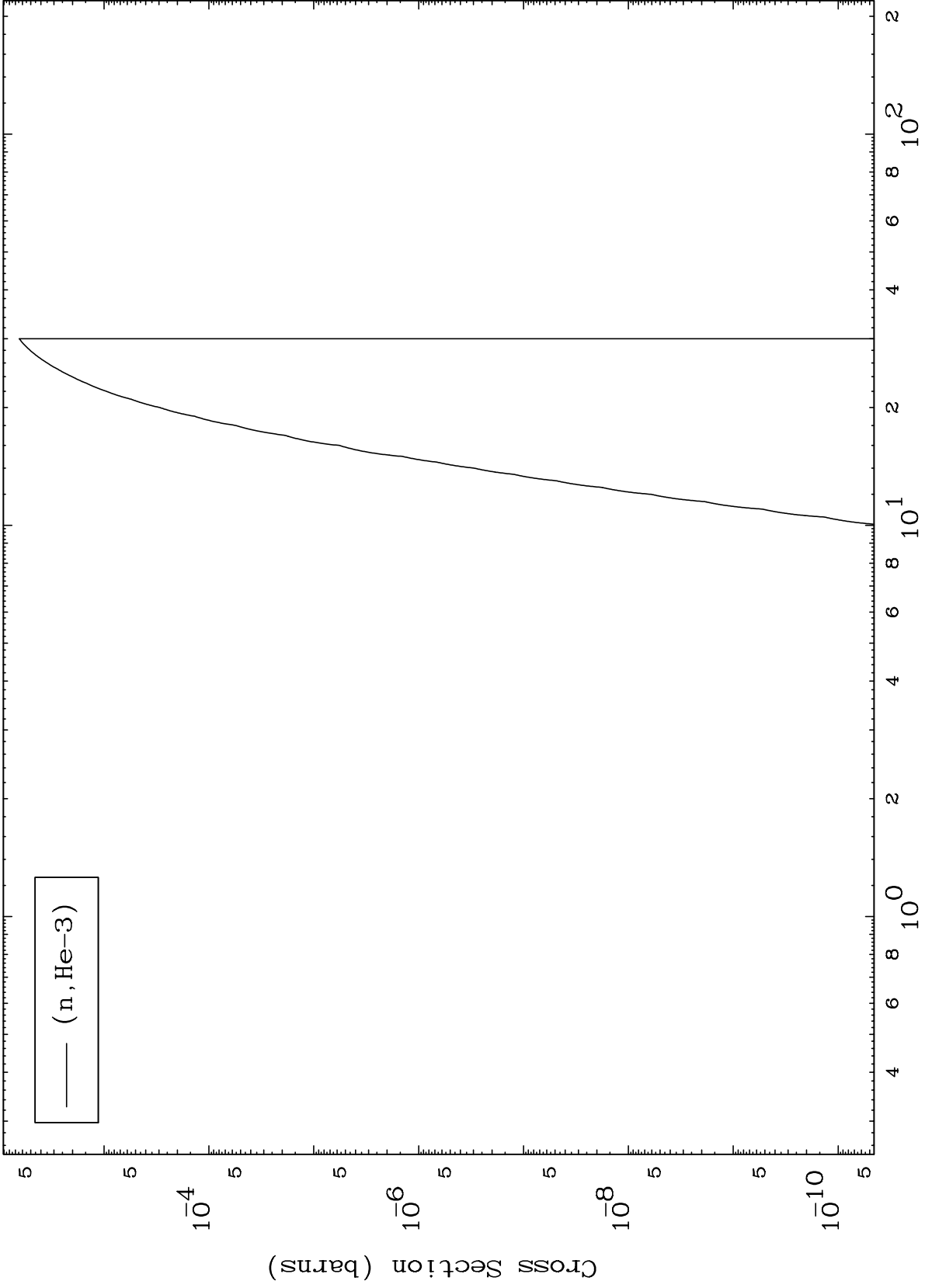
Incident Energy (MeV)

64-Gd-145

MAT 6404

(n,He3) Levels  
293 Kelvin Cross Sections

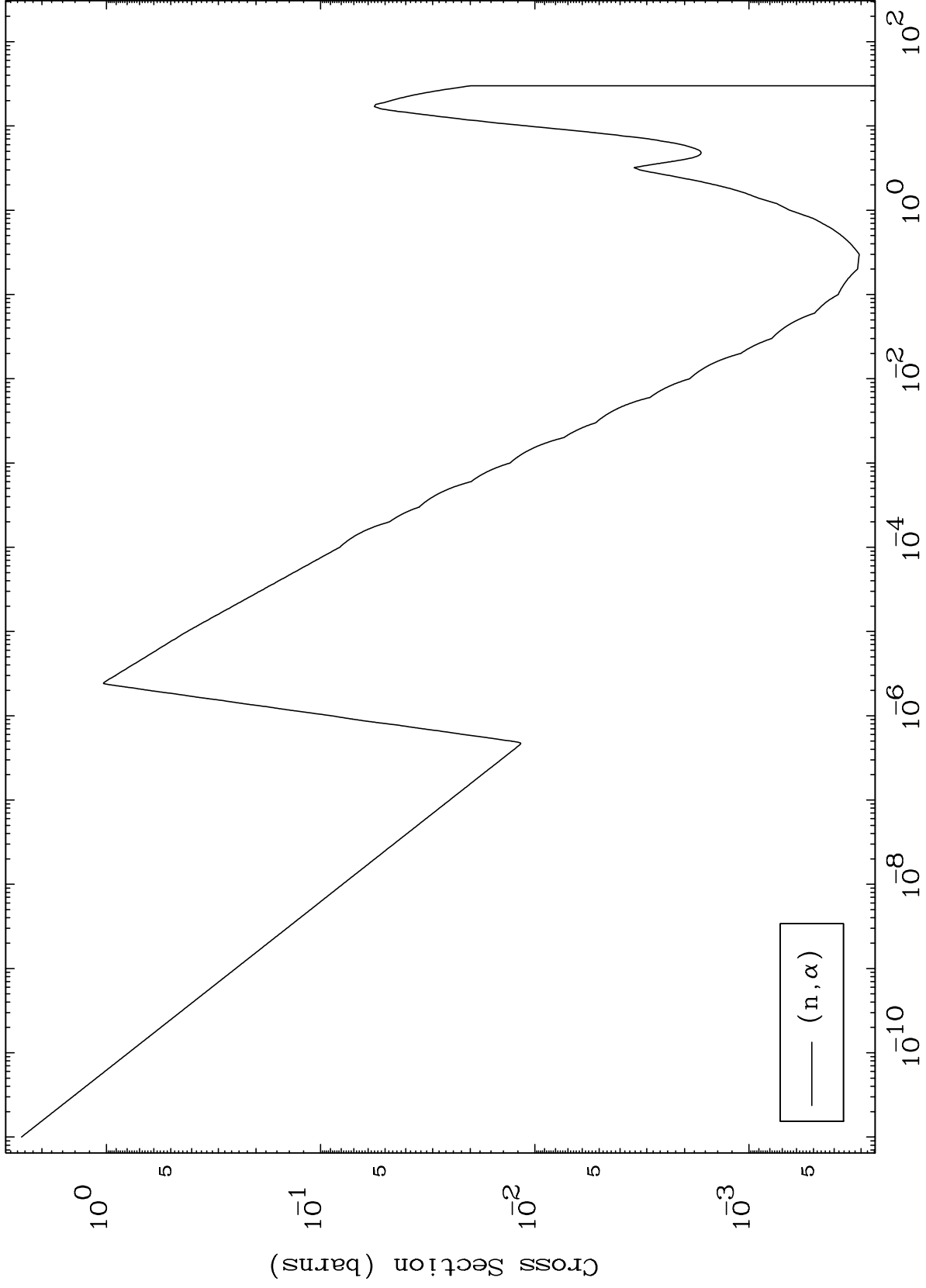
64-Gd-145



MAT 6404

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

64-Gd-145



14

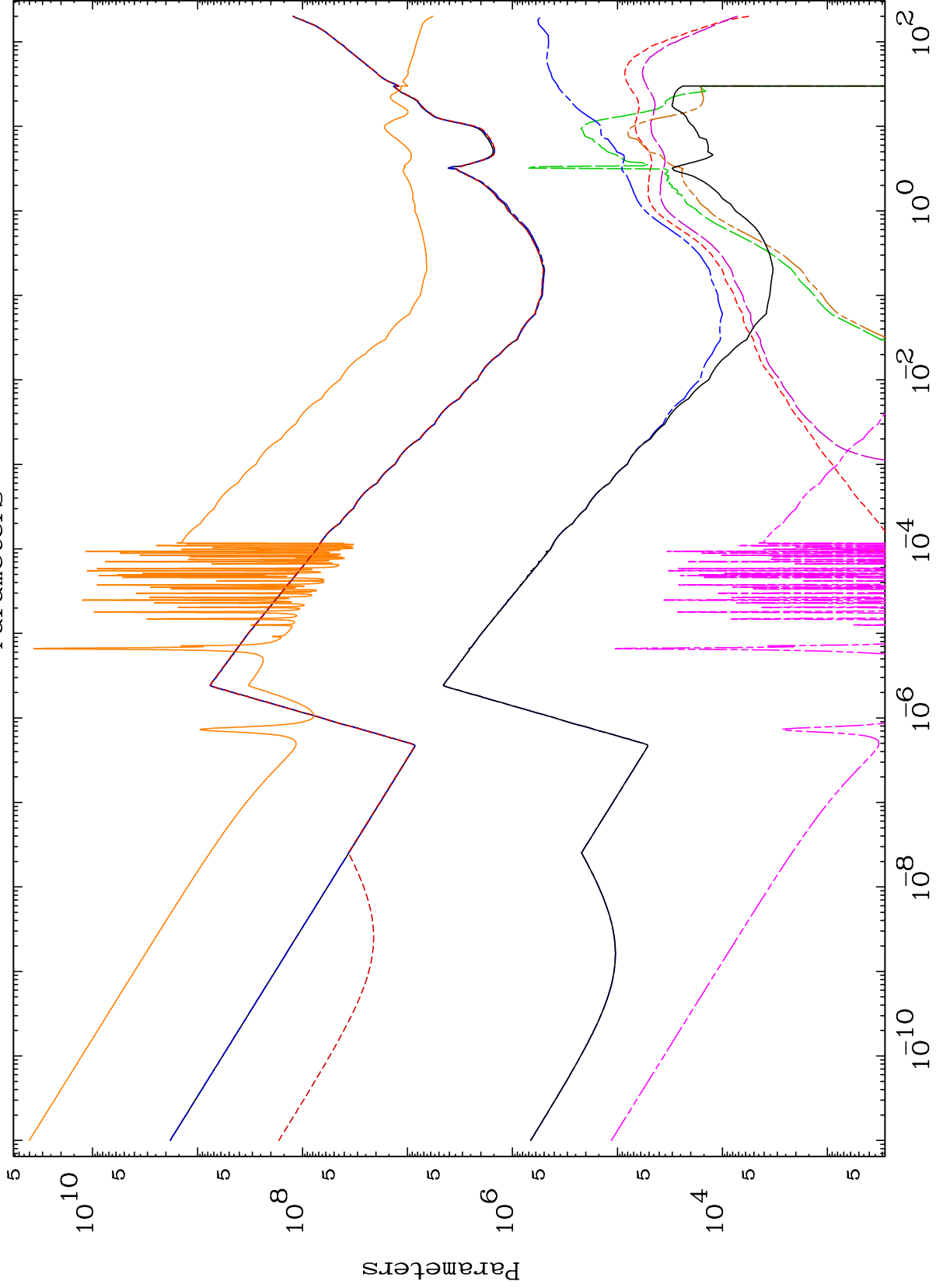
Incident Energy (MeV)

64-Gd-145

MAT 6404

Energy Release  
Parameters

64-Gd-145

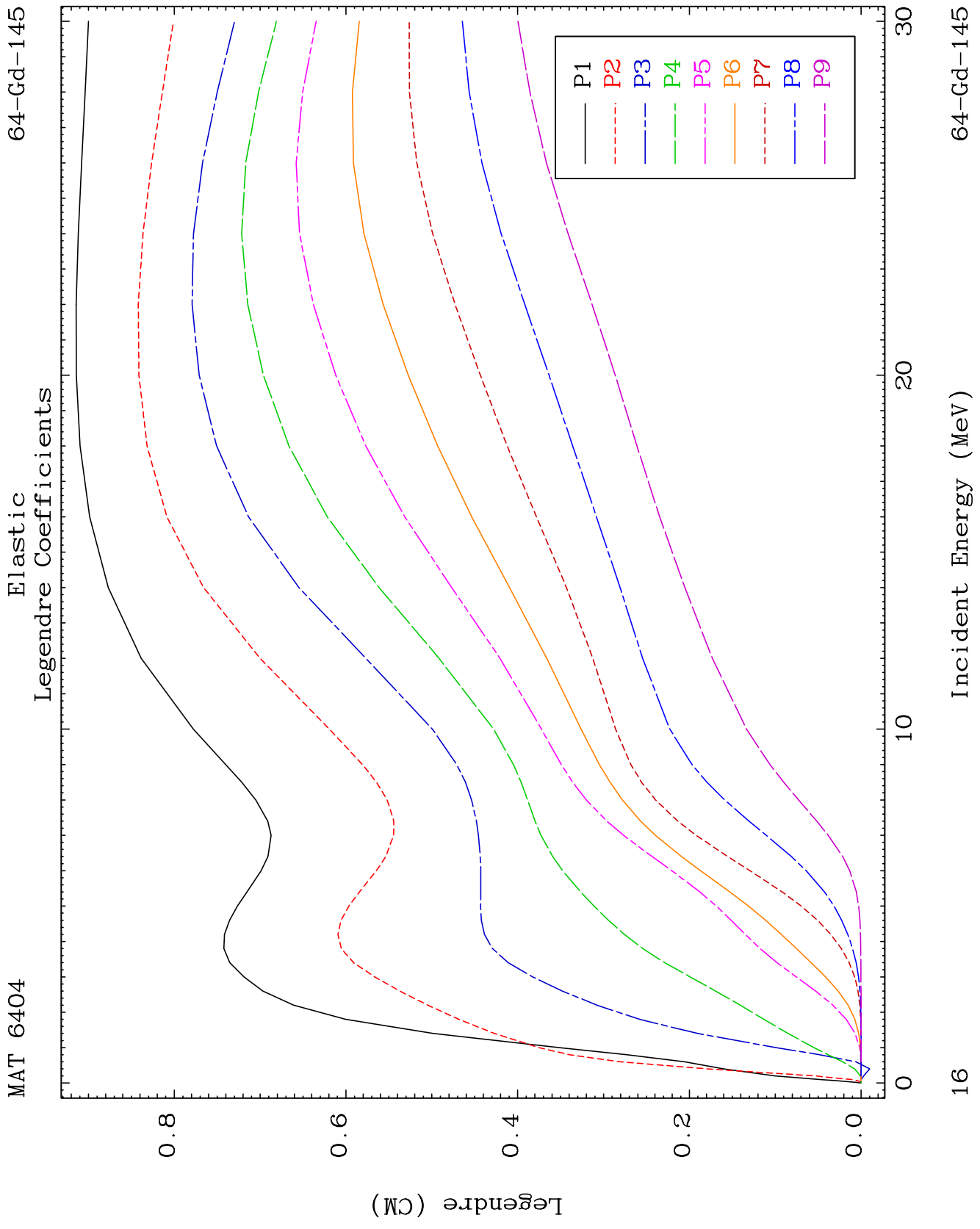


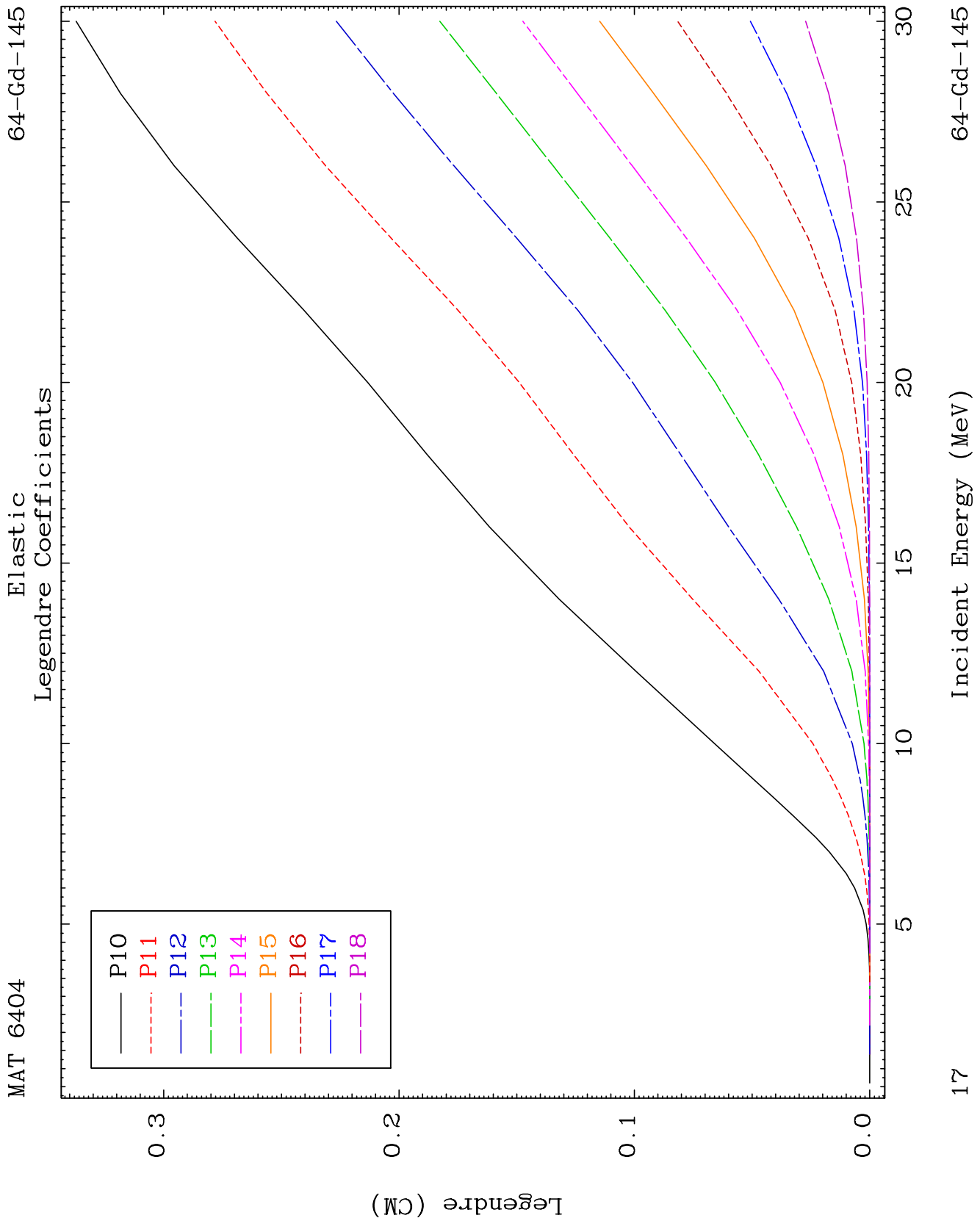
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Incident Energy (MeV)

64-Gd-145



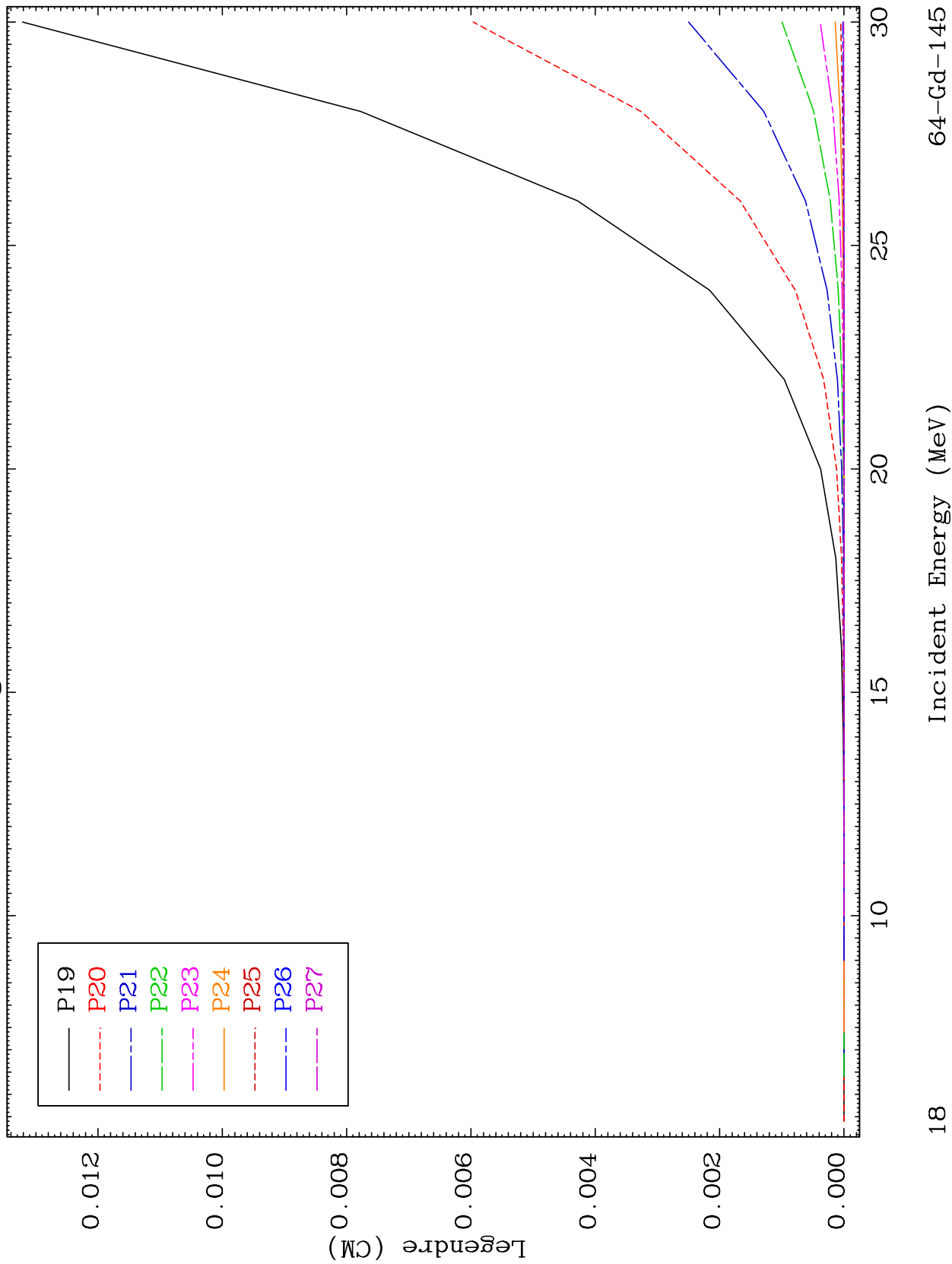




MAT 6404

### Elastic Legendre Coefficients

64-Gd-145



18

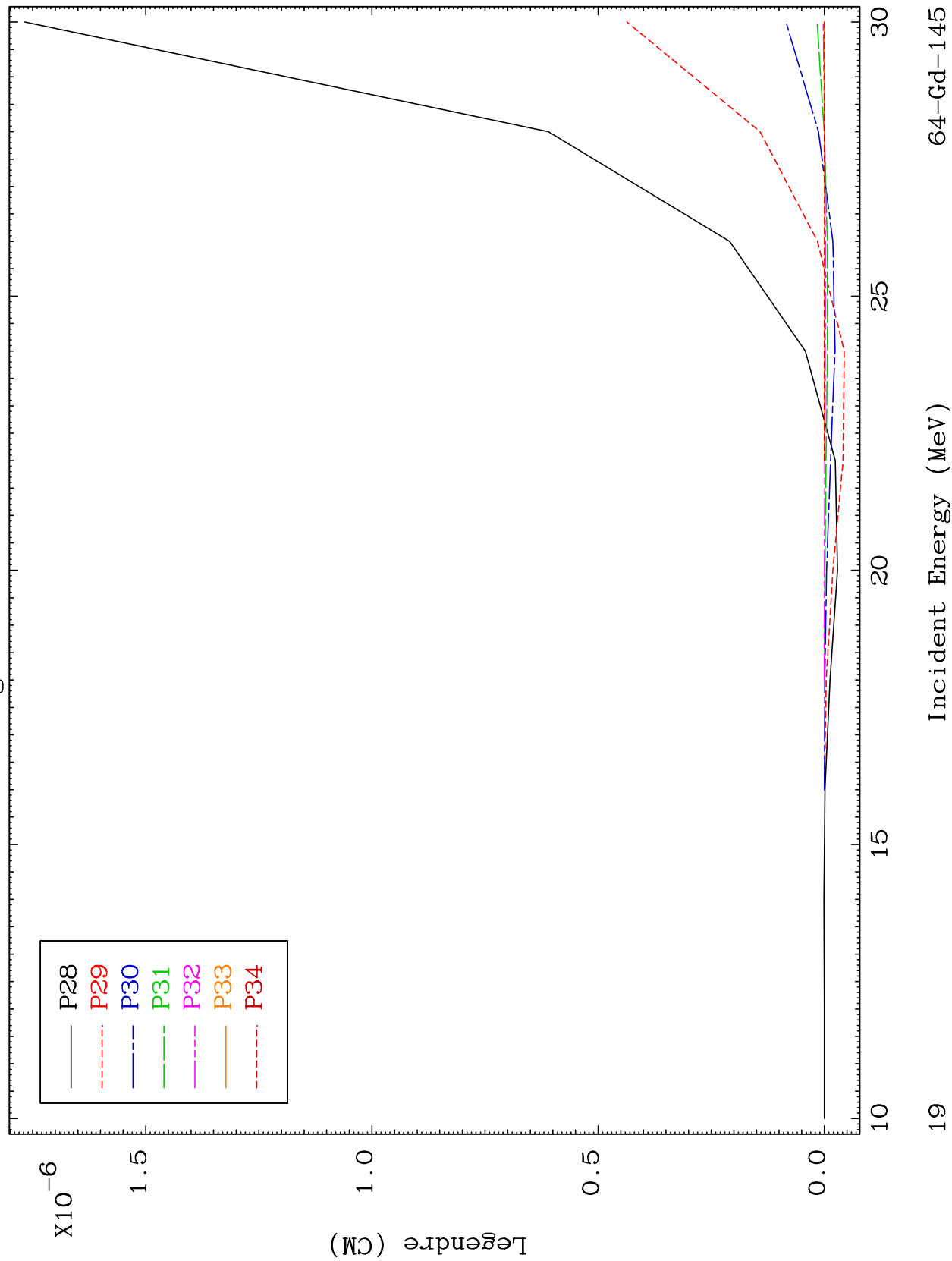
Incident Energy (MeV)

64-Gd-145

MAT 6404

Elastic Legendre Coefficients

64-Gd-145



19

Incident Energy (MeV)

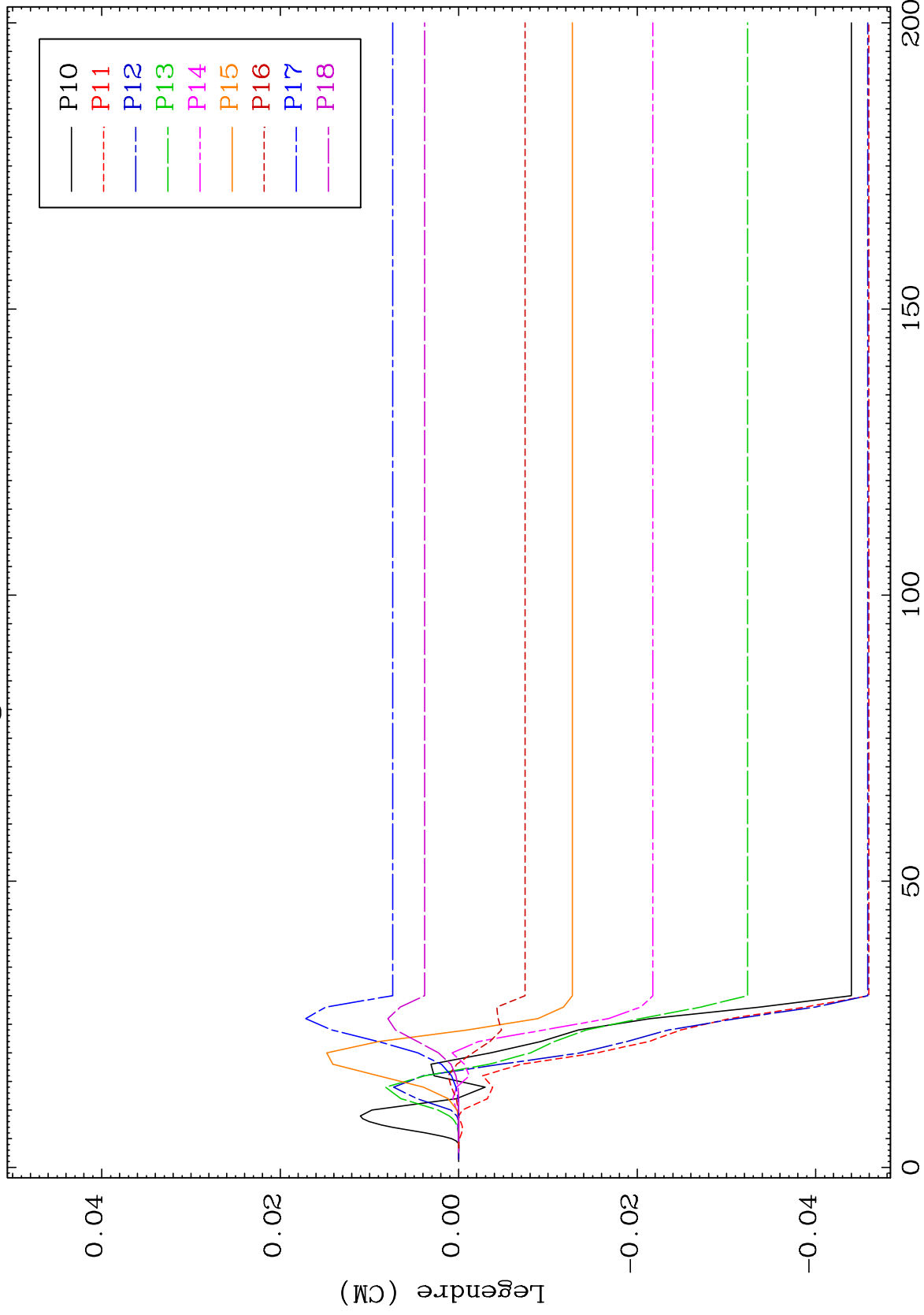
64-Gd-145



MAT 6404

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

64-Gd-145



21

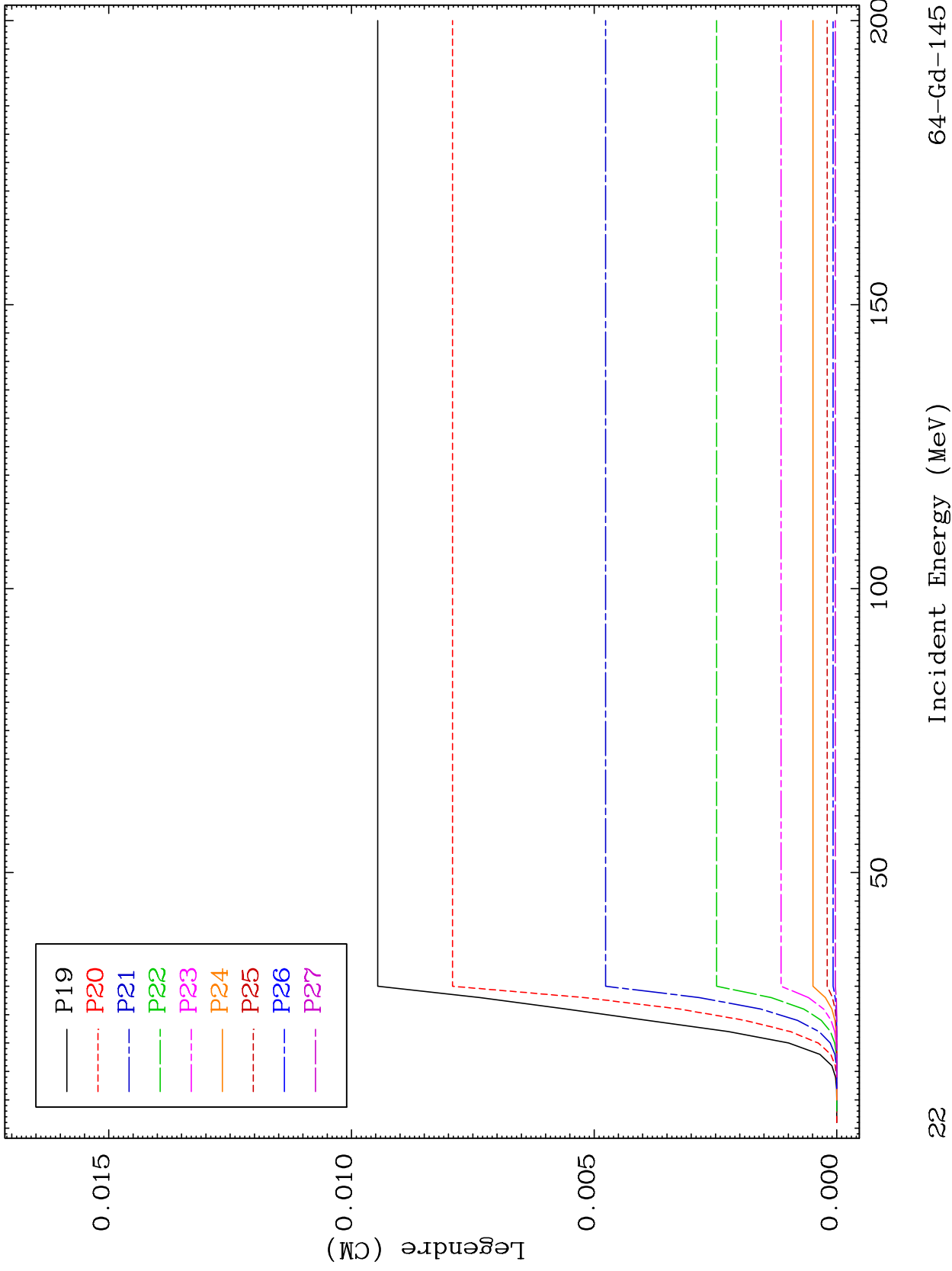
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



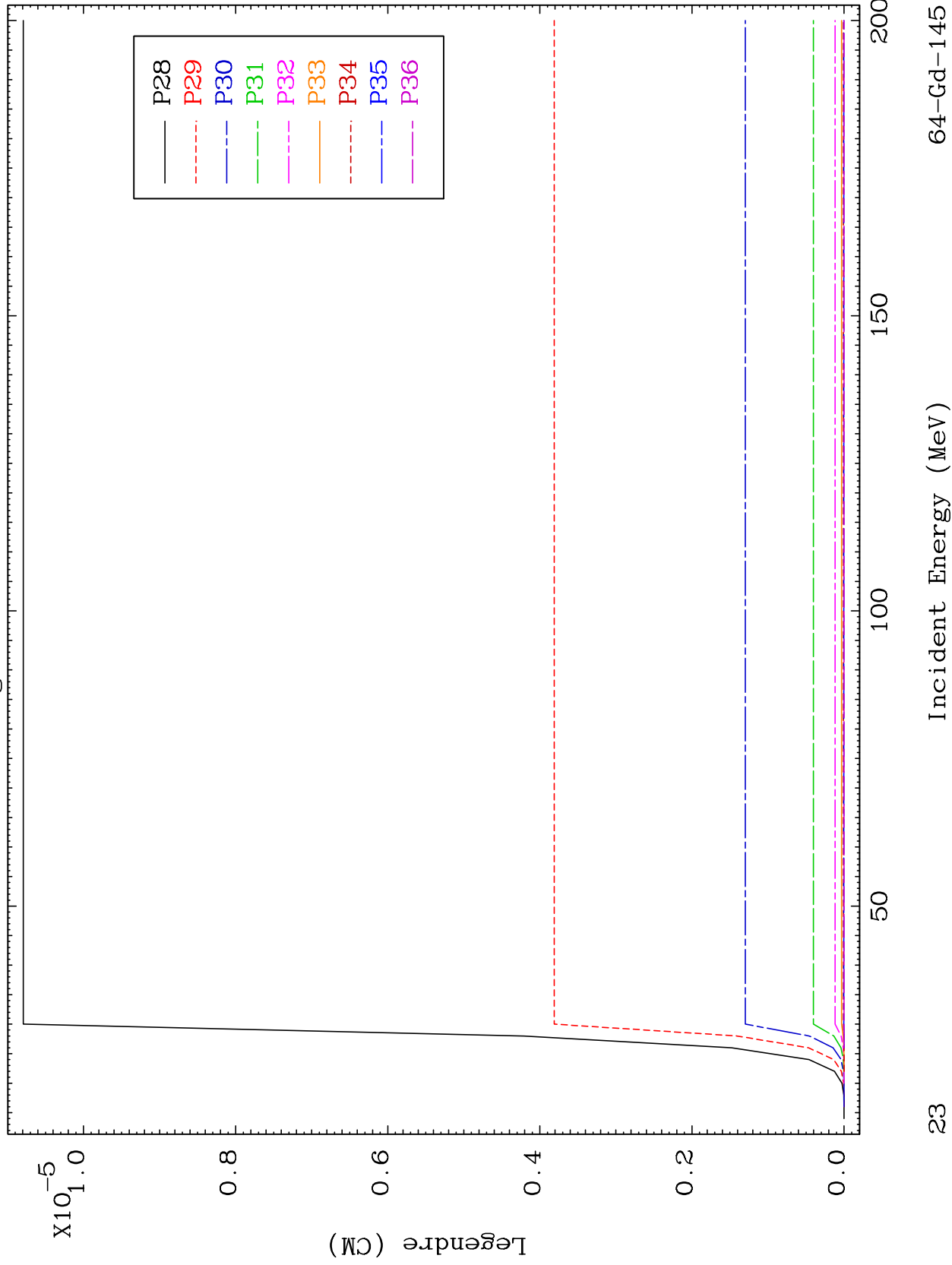
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64-Gd-145

MAT 6404

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

64-Gd-145



23

Incident Energy (MeV)

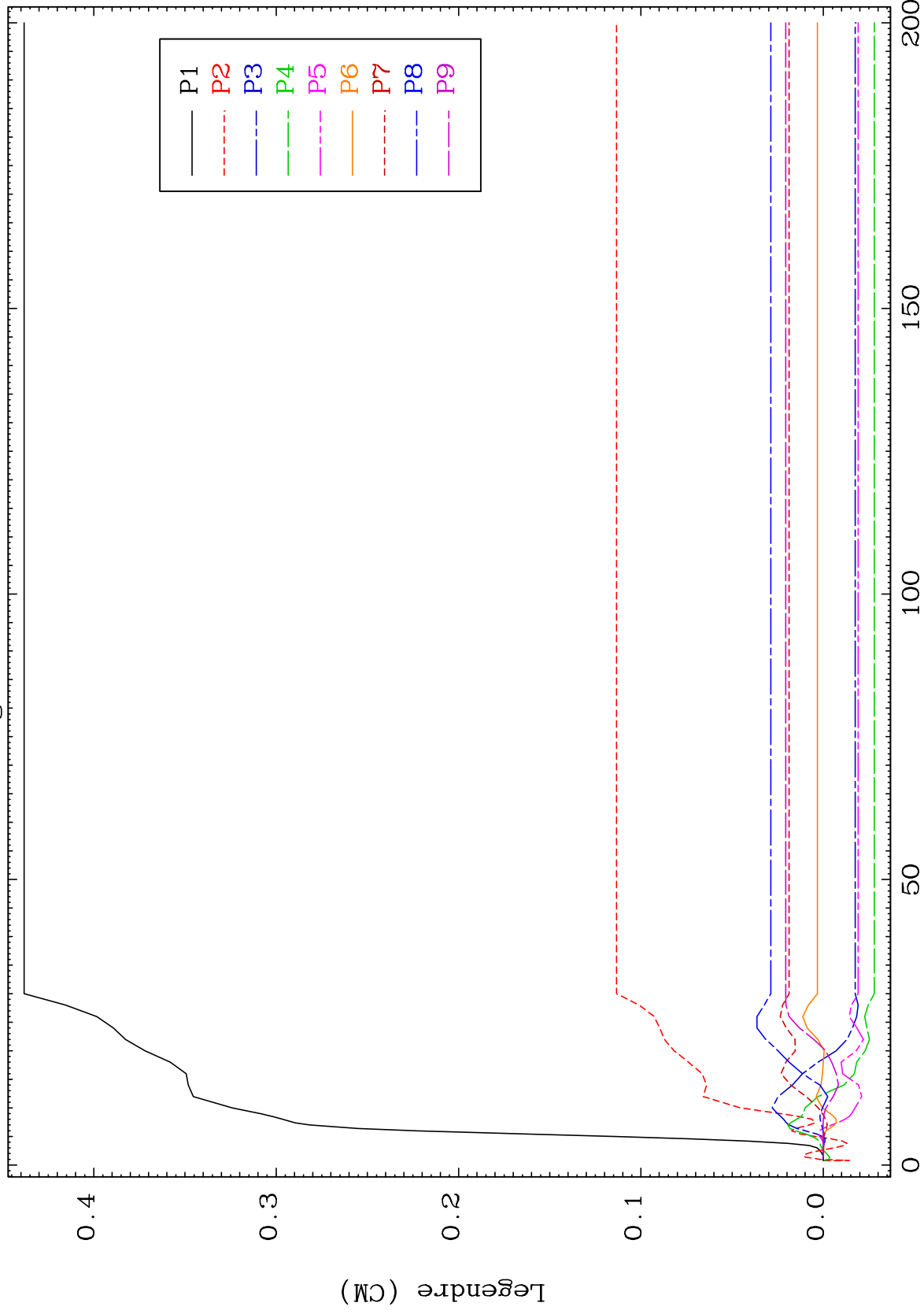
64-Gd-145



MAT 6404

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

64-Gd-145



24

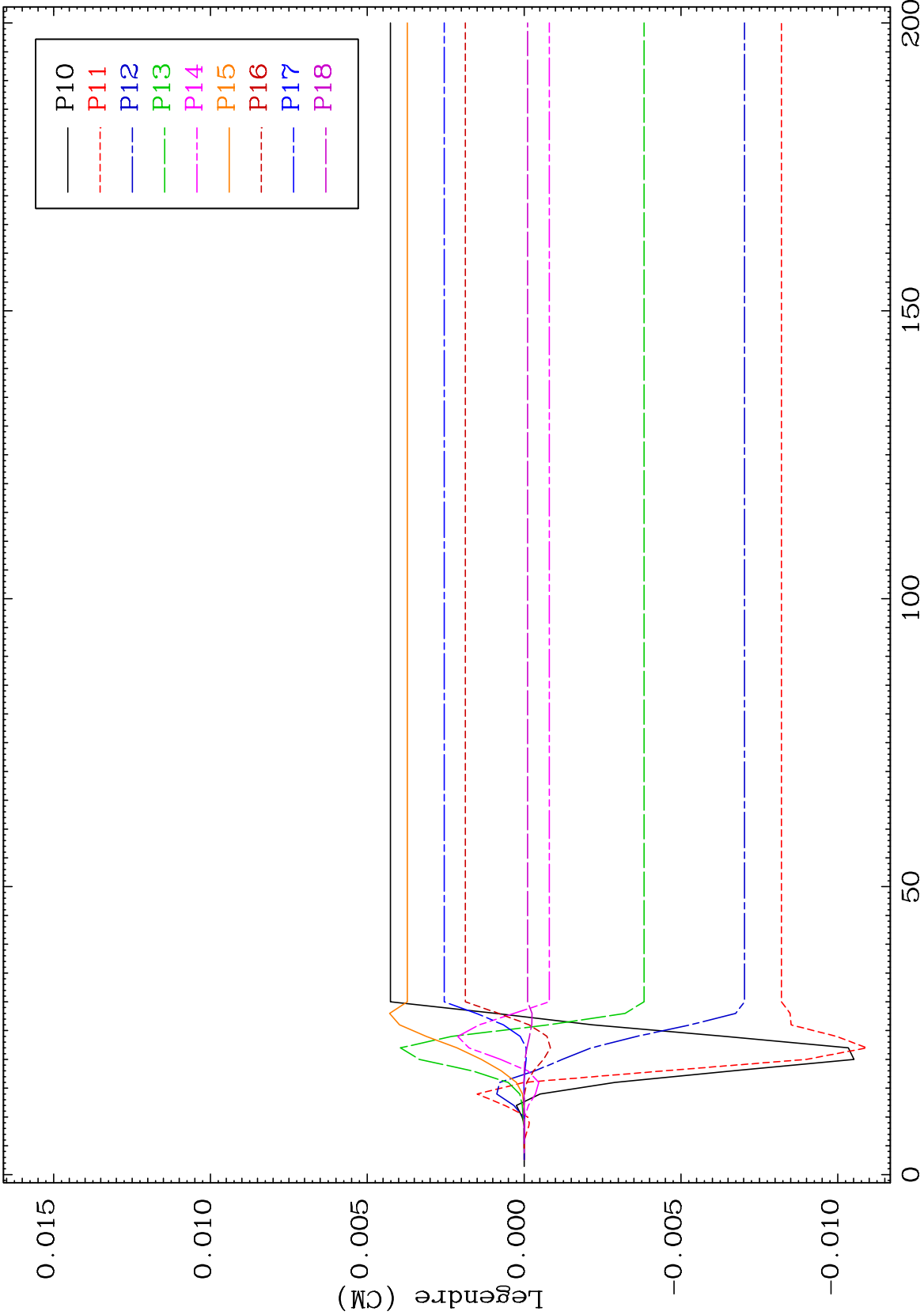
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



25

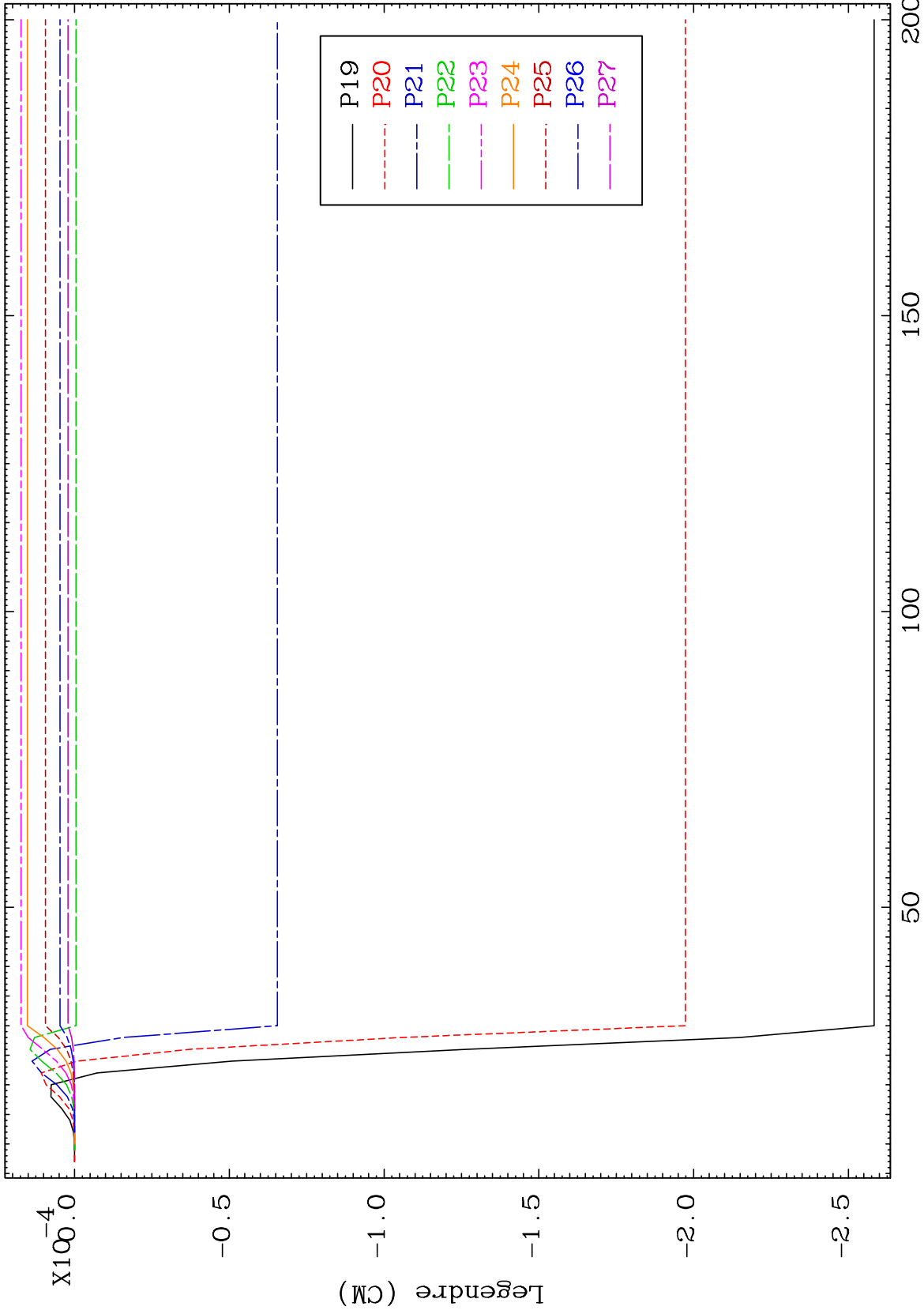
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



26

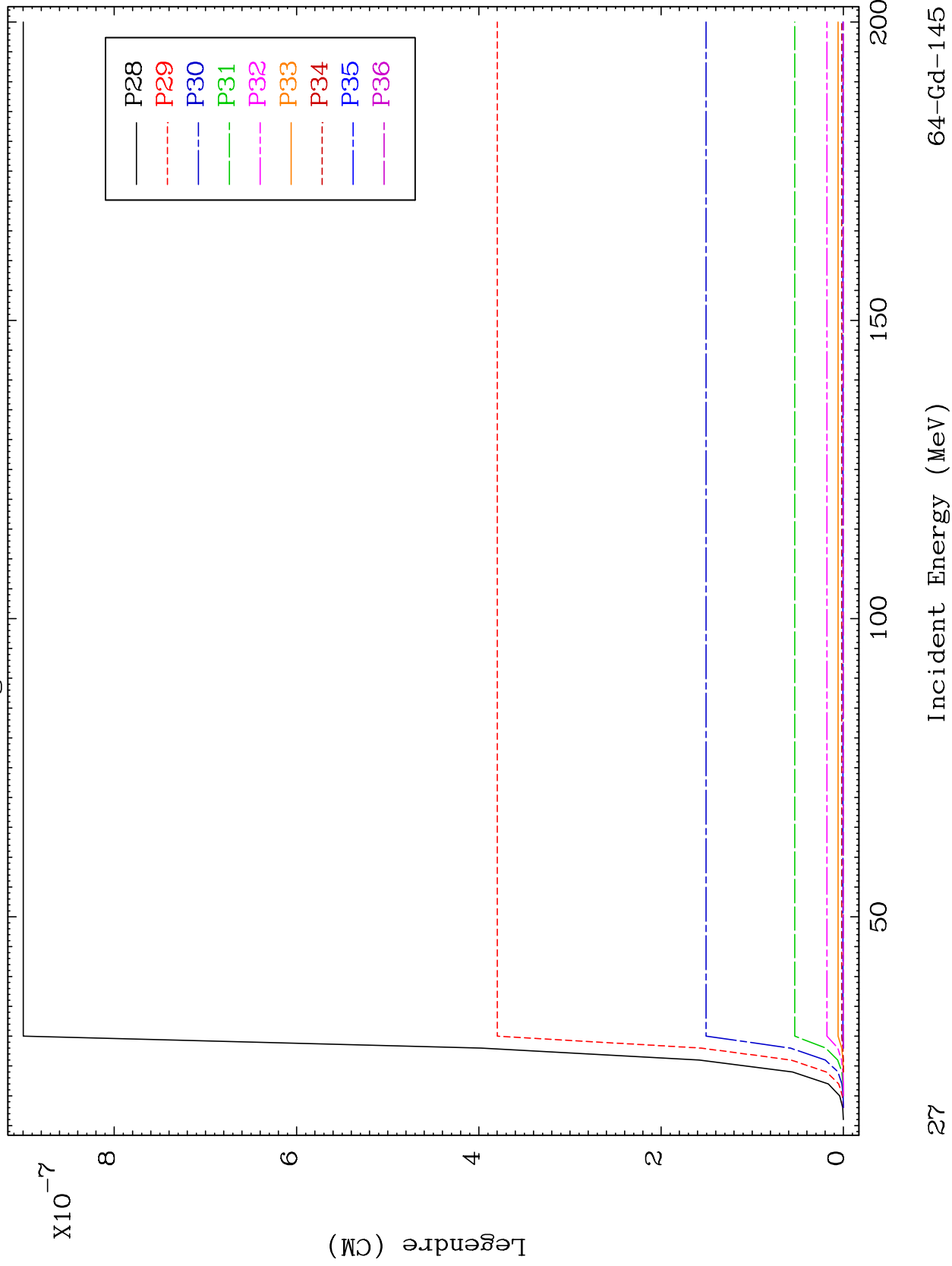
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

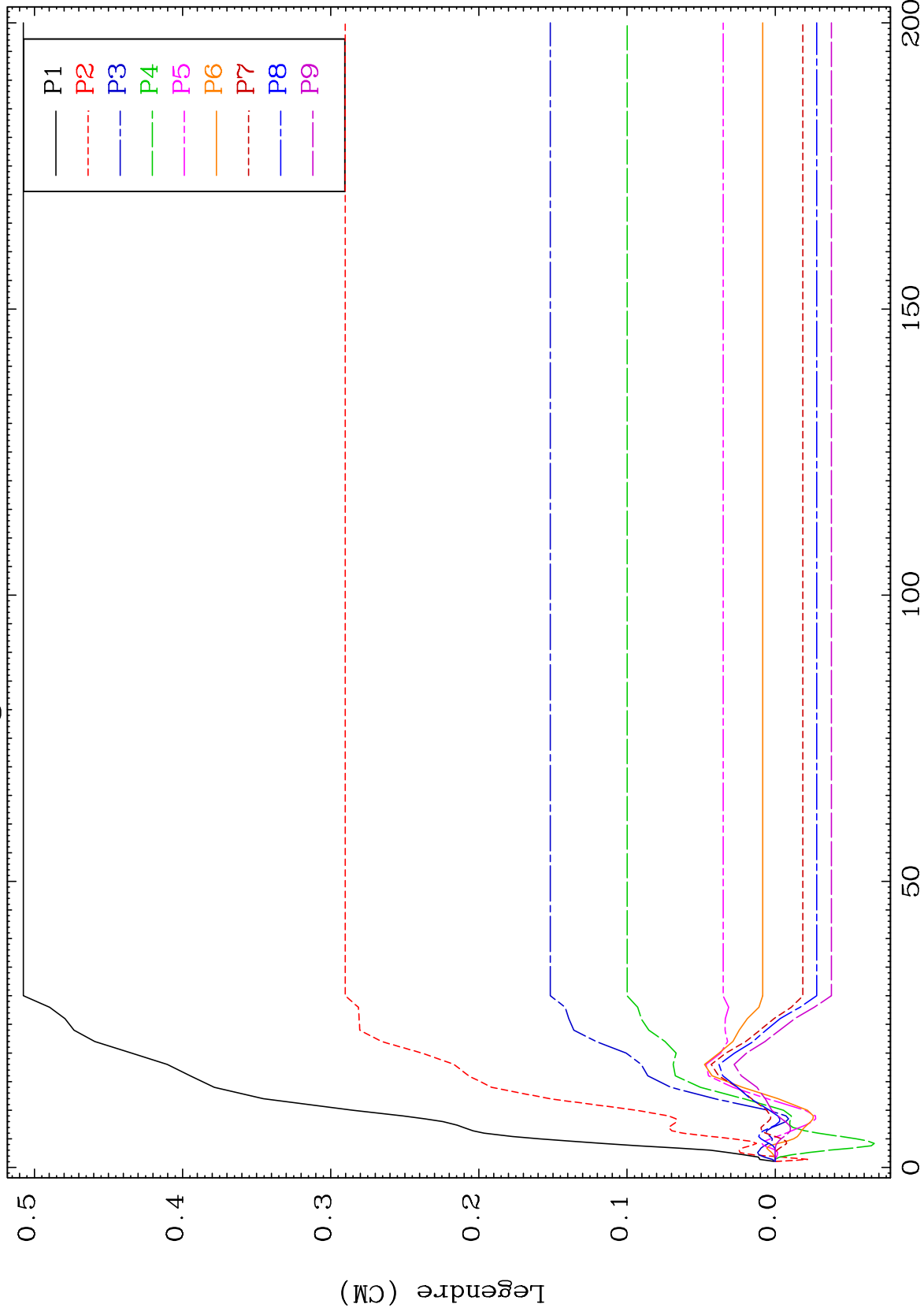
64-Gd-145



MAT 6404

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

64-Gd-145



28

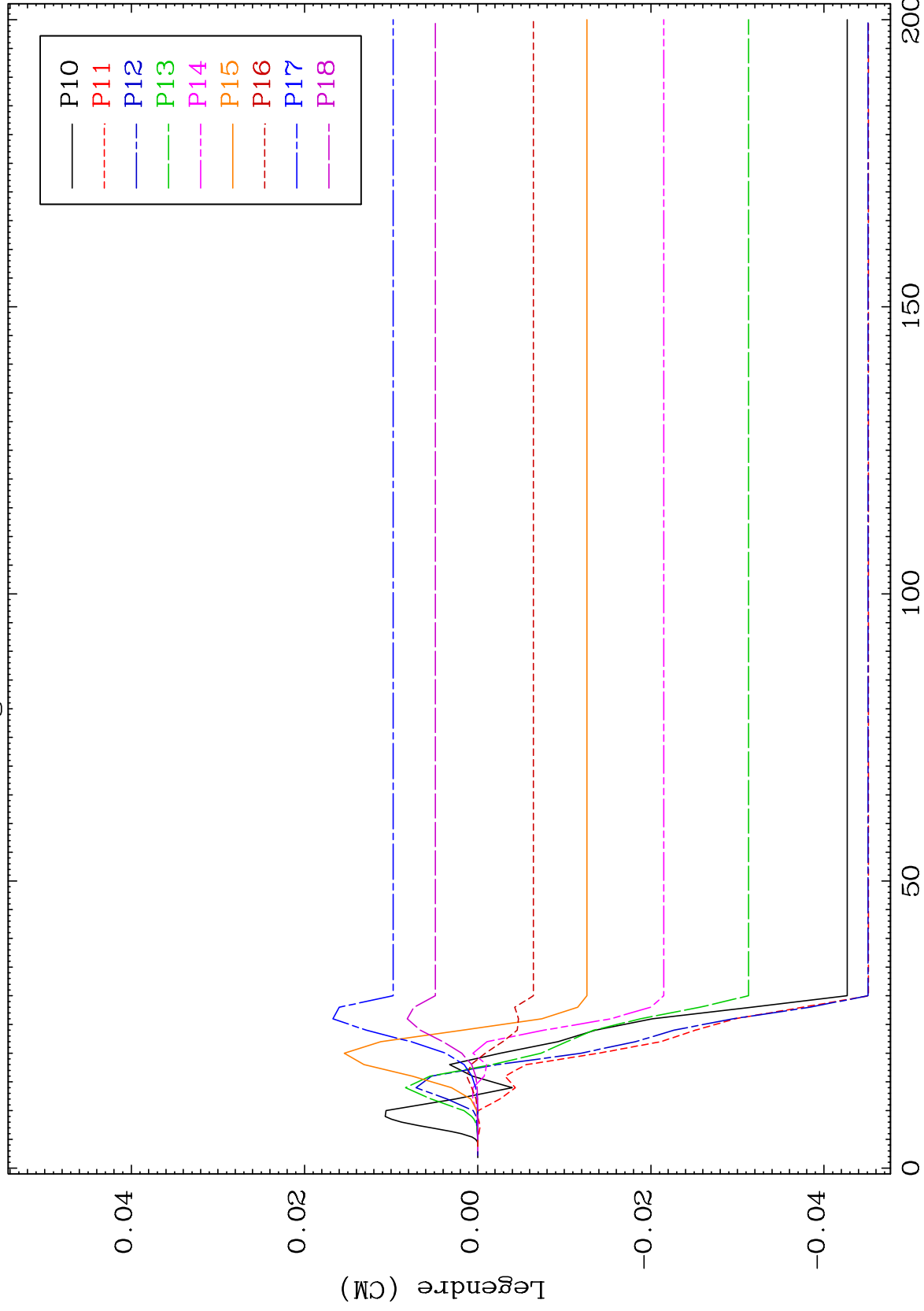
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



29

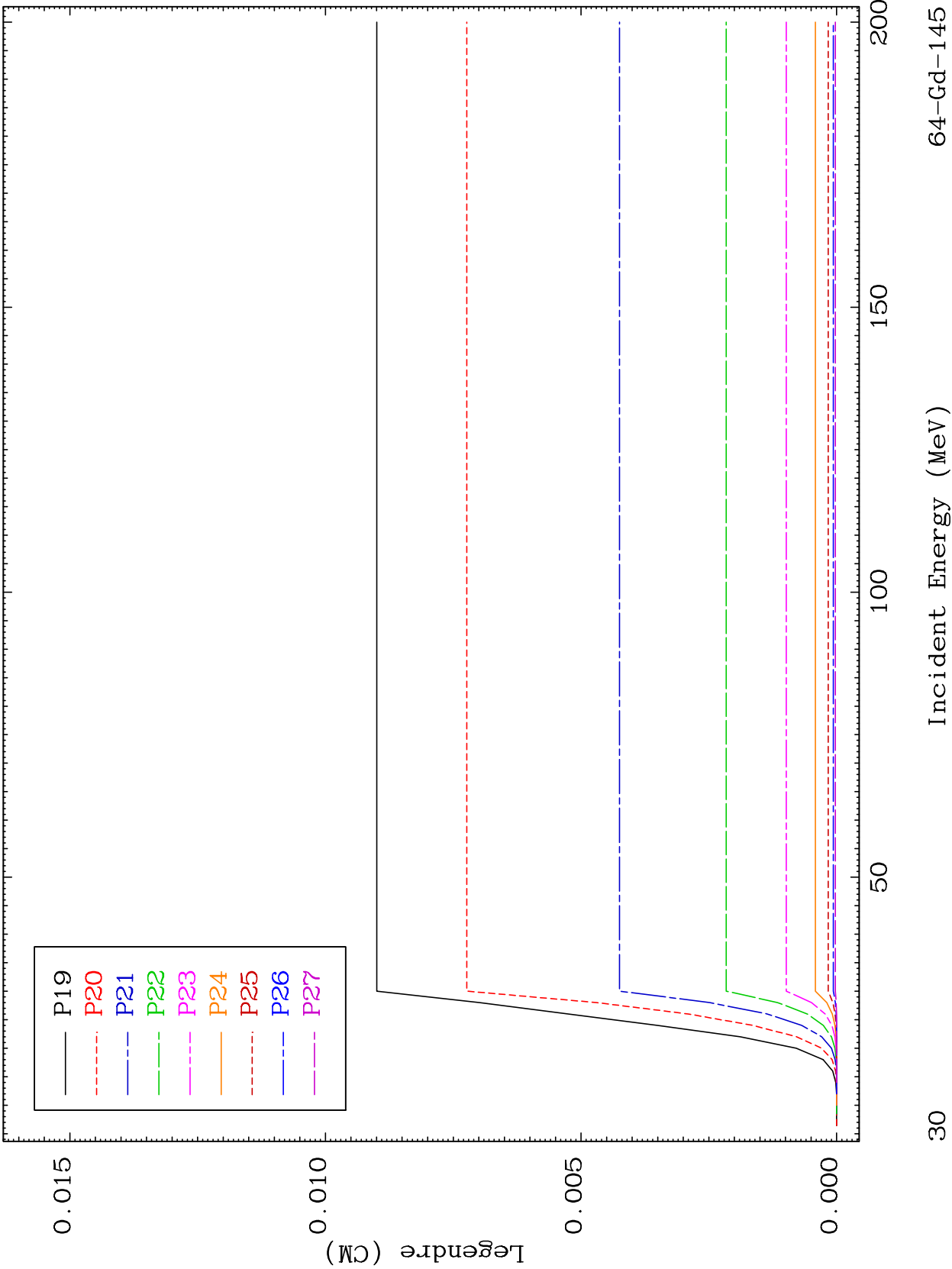
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



30

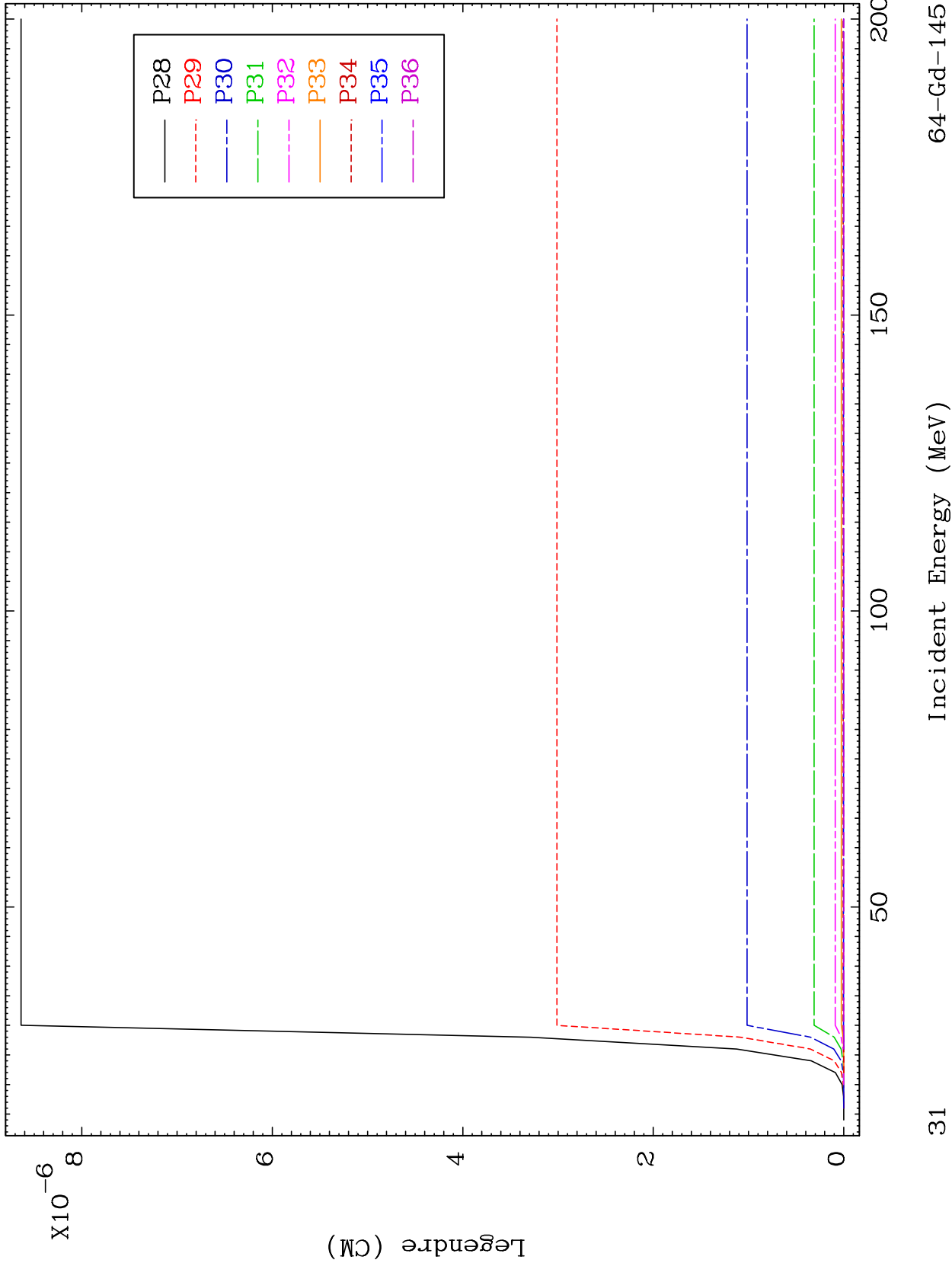
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



31

Incident Energy (MeV)

64-Gd-145

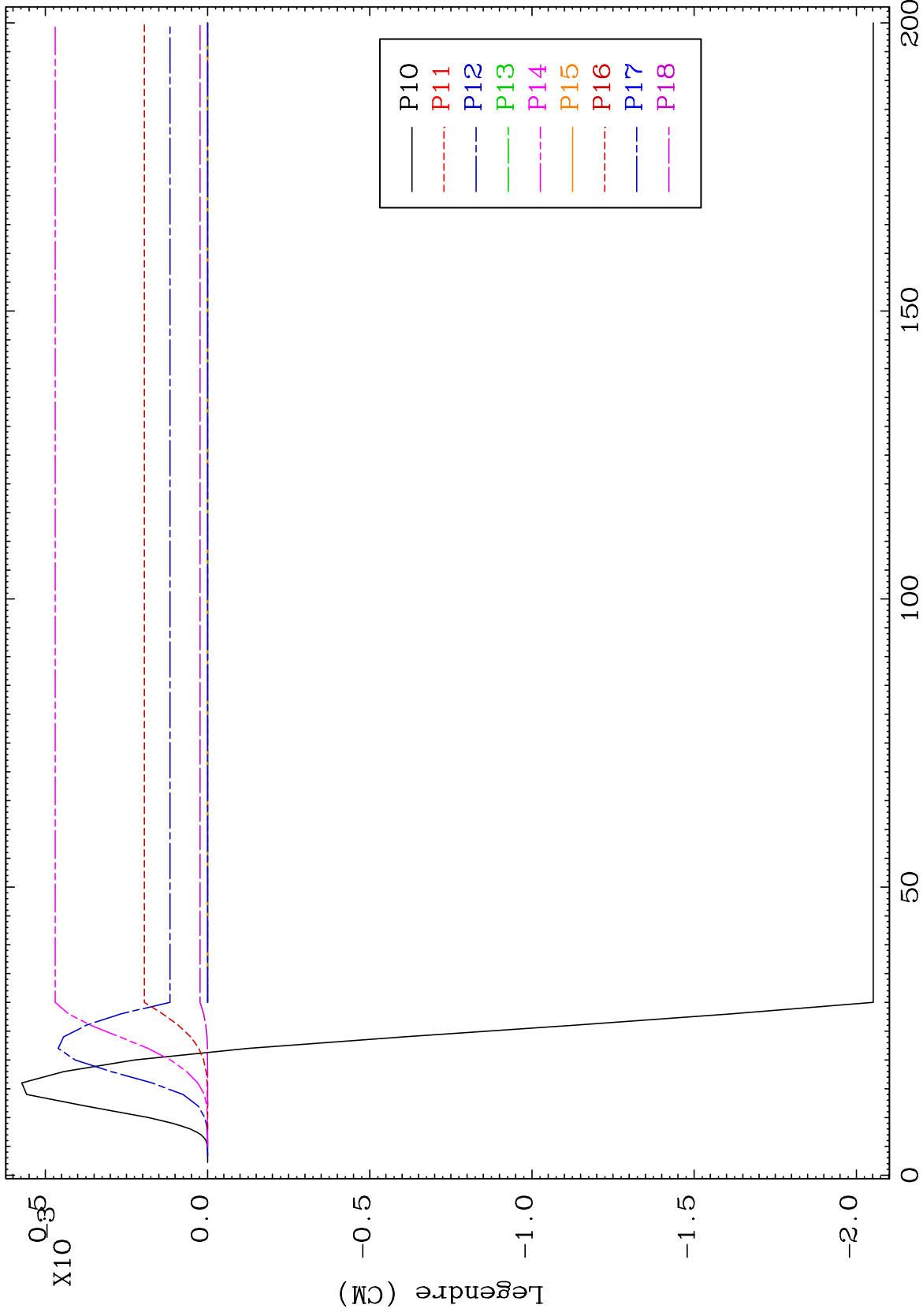




MAT 6404

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

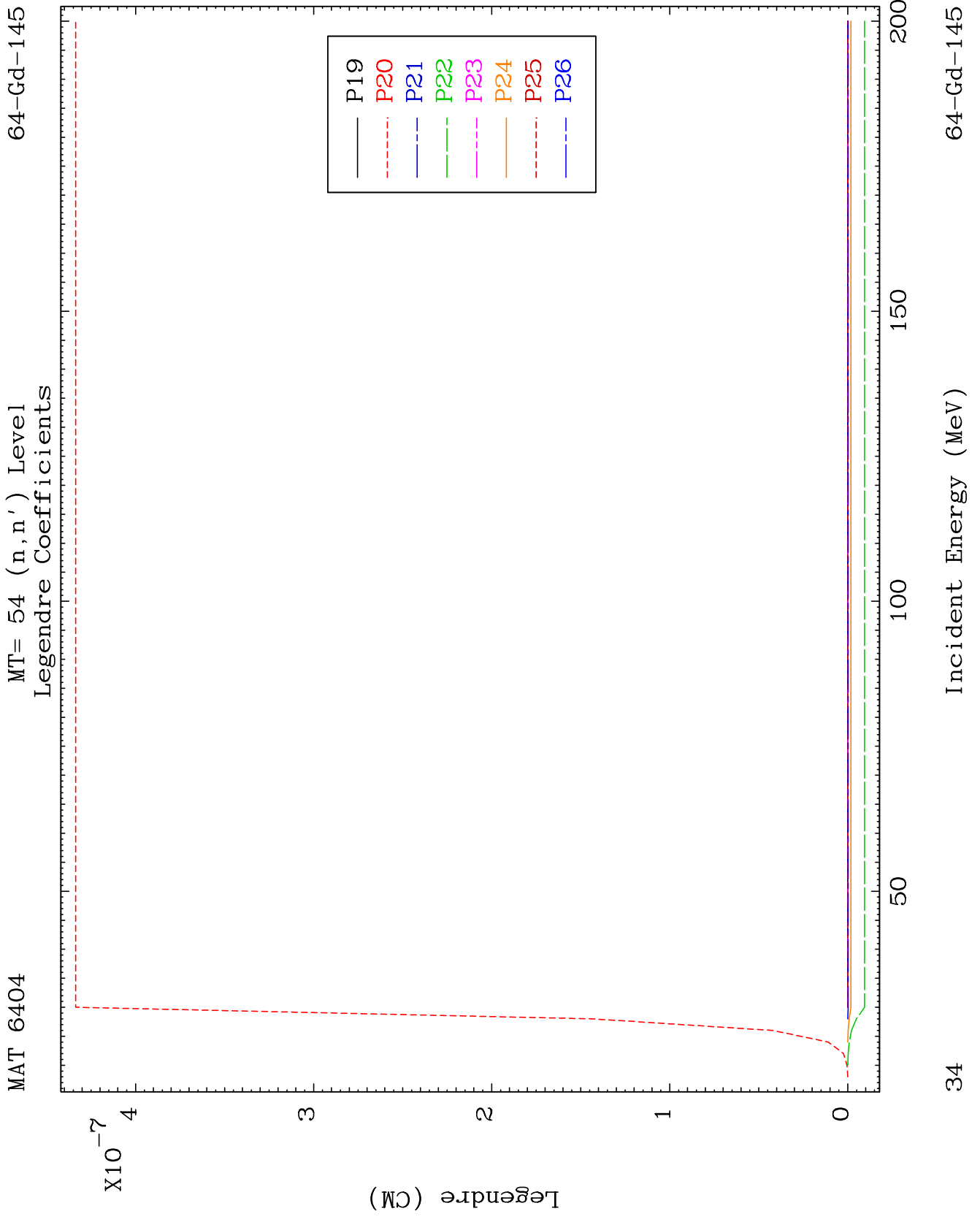
64-Gd-145



33

Incident Energy (MeV)

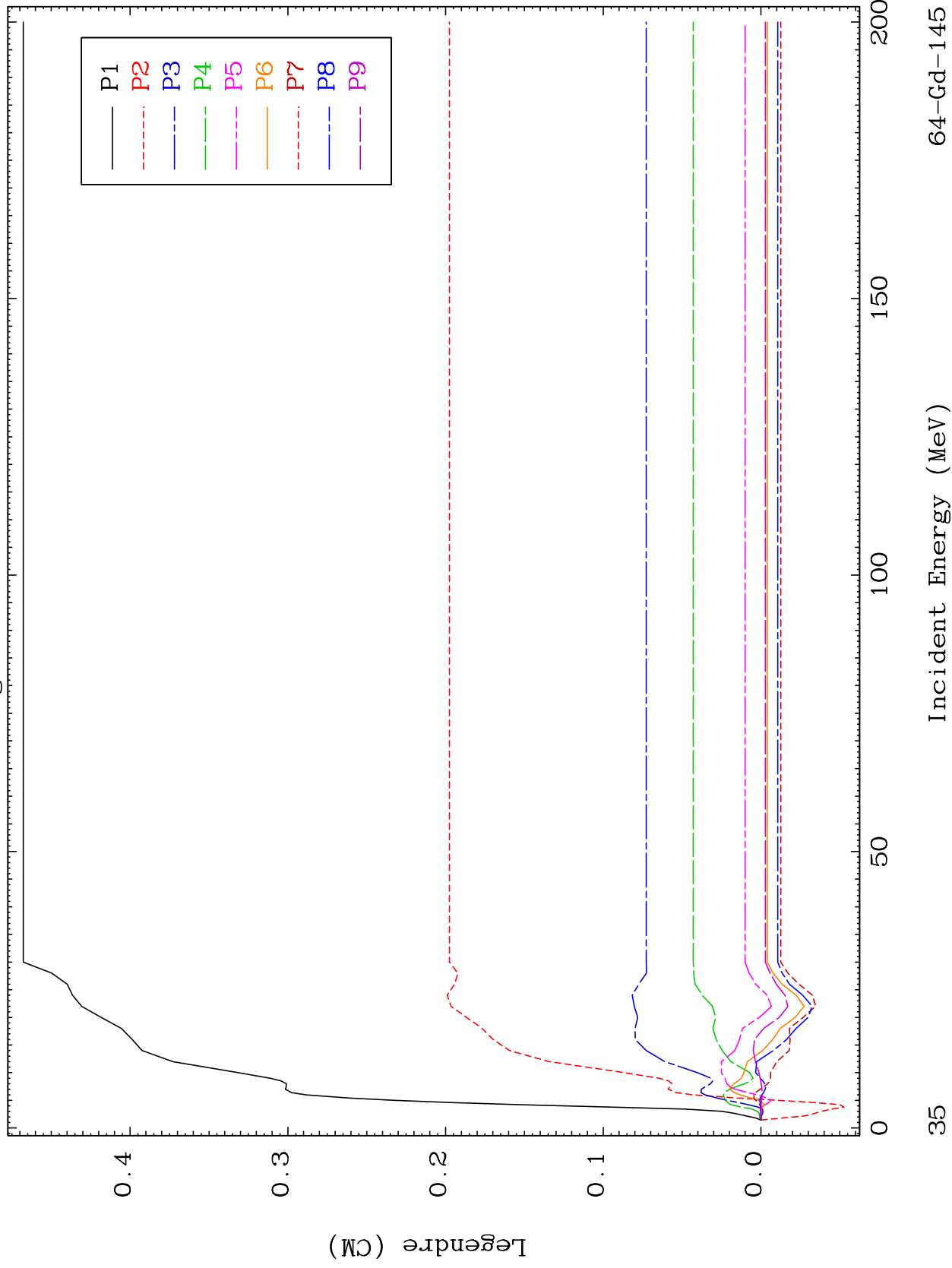
64-Gd-145



MAT 6404

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

64-Gd-145



64-Gd-145

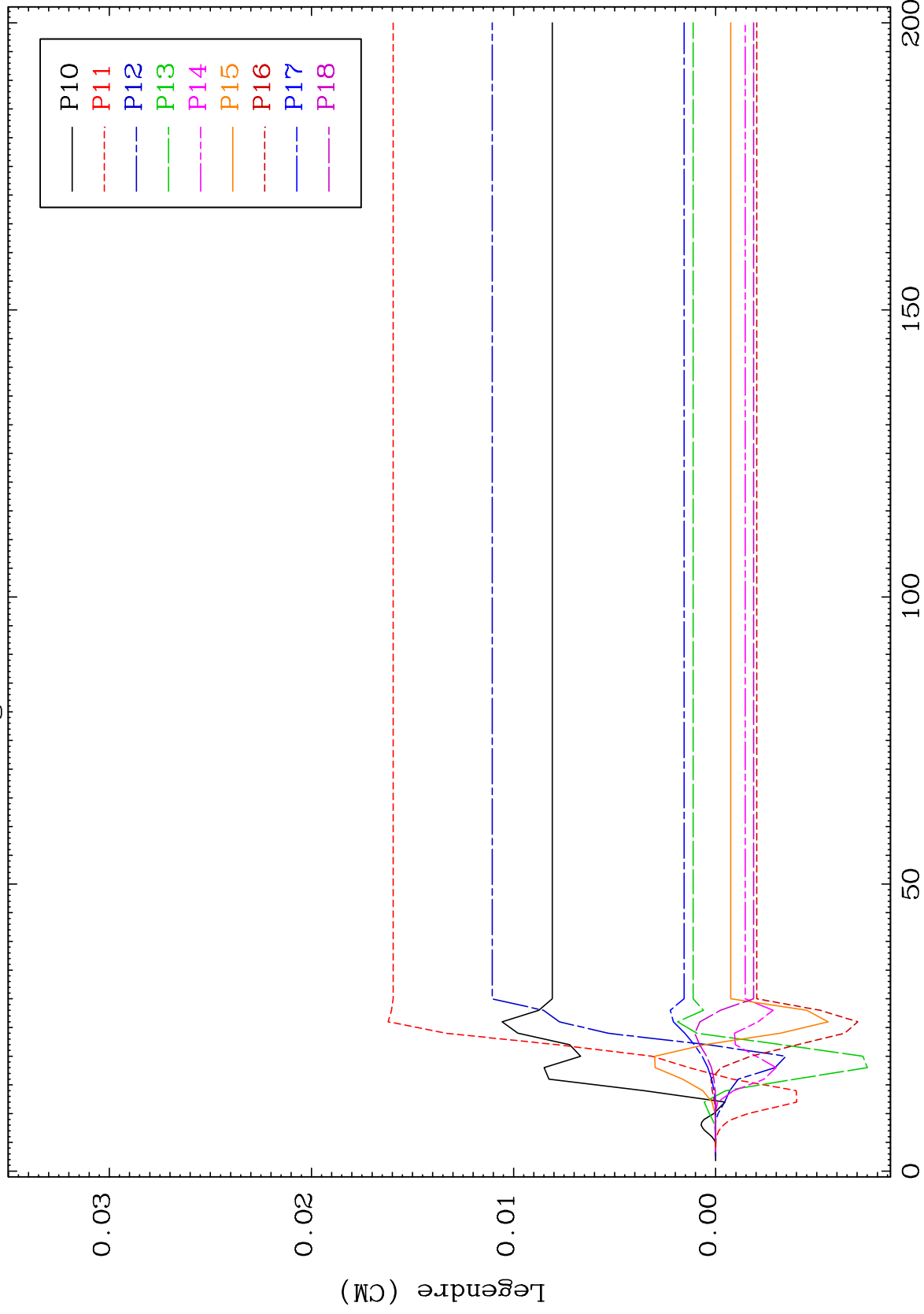
Incident Energy (MeV)

35

MAT 6404

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

64-Gd-145



36

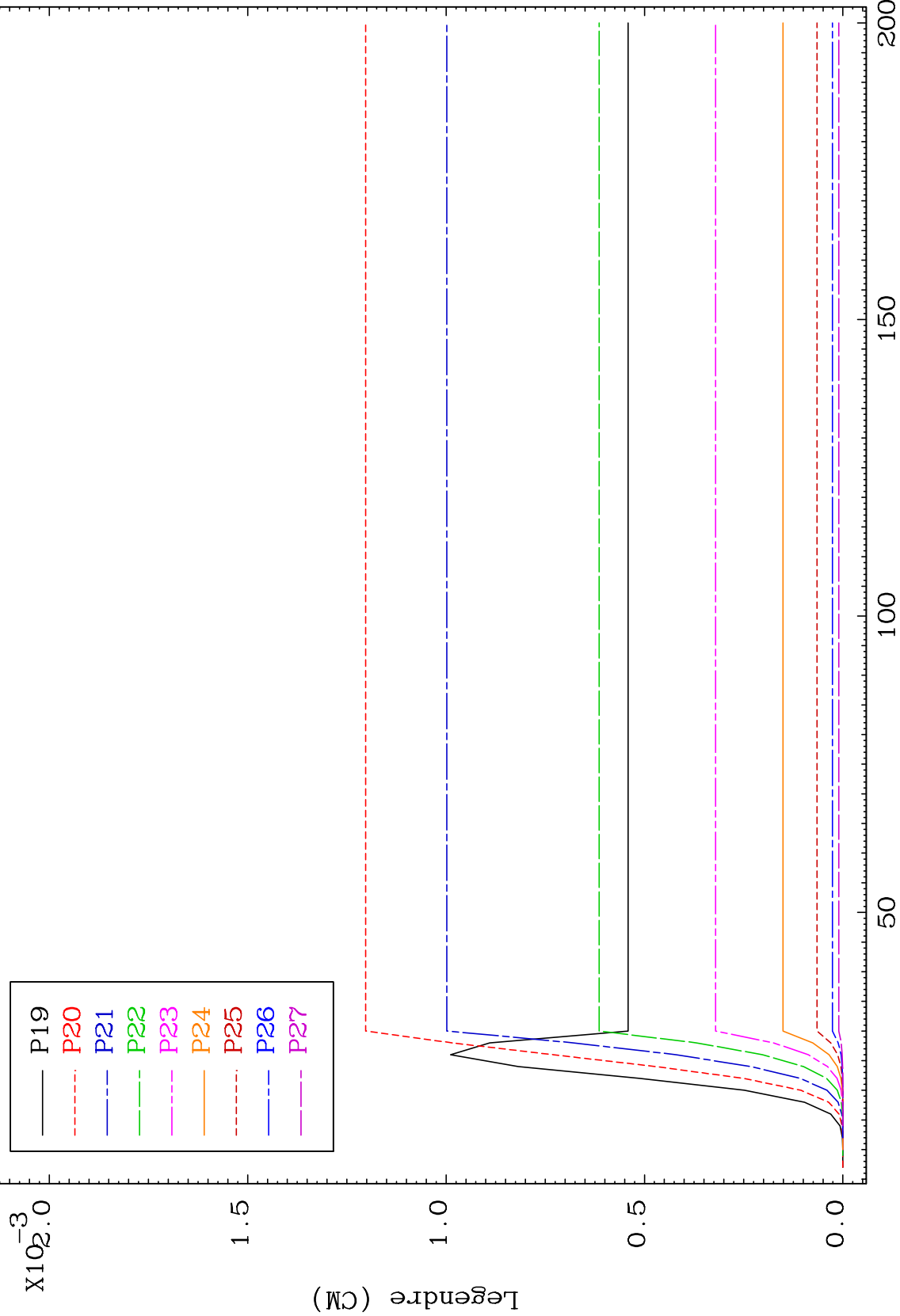
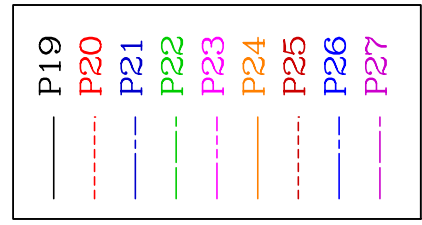
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



37

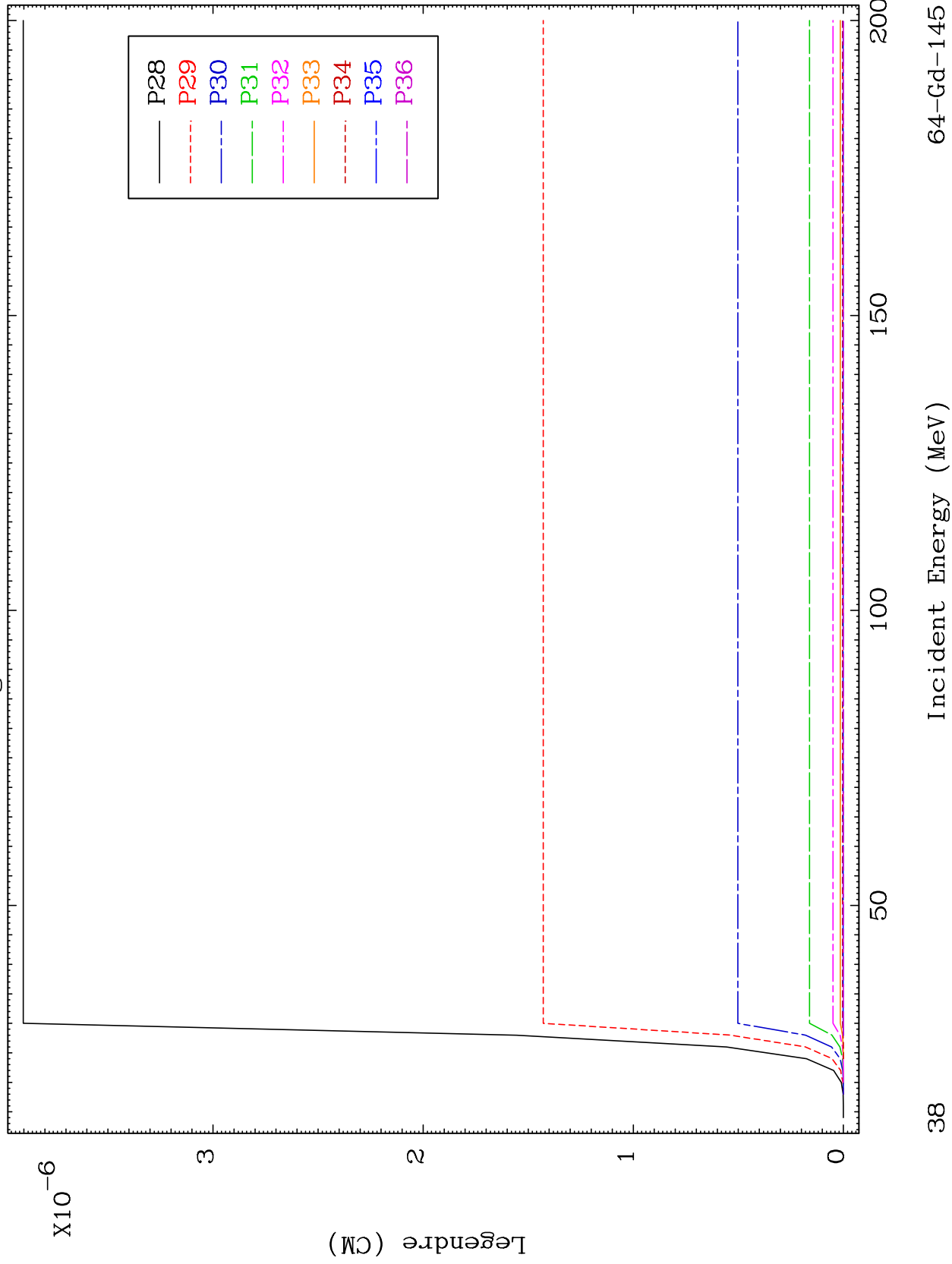
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



38

Incident Energy (MeV)

64-Gd-145

200

150

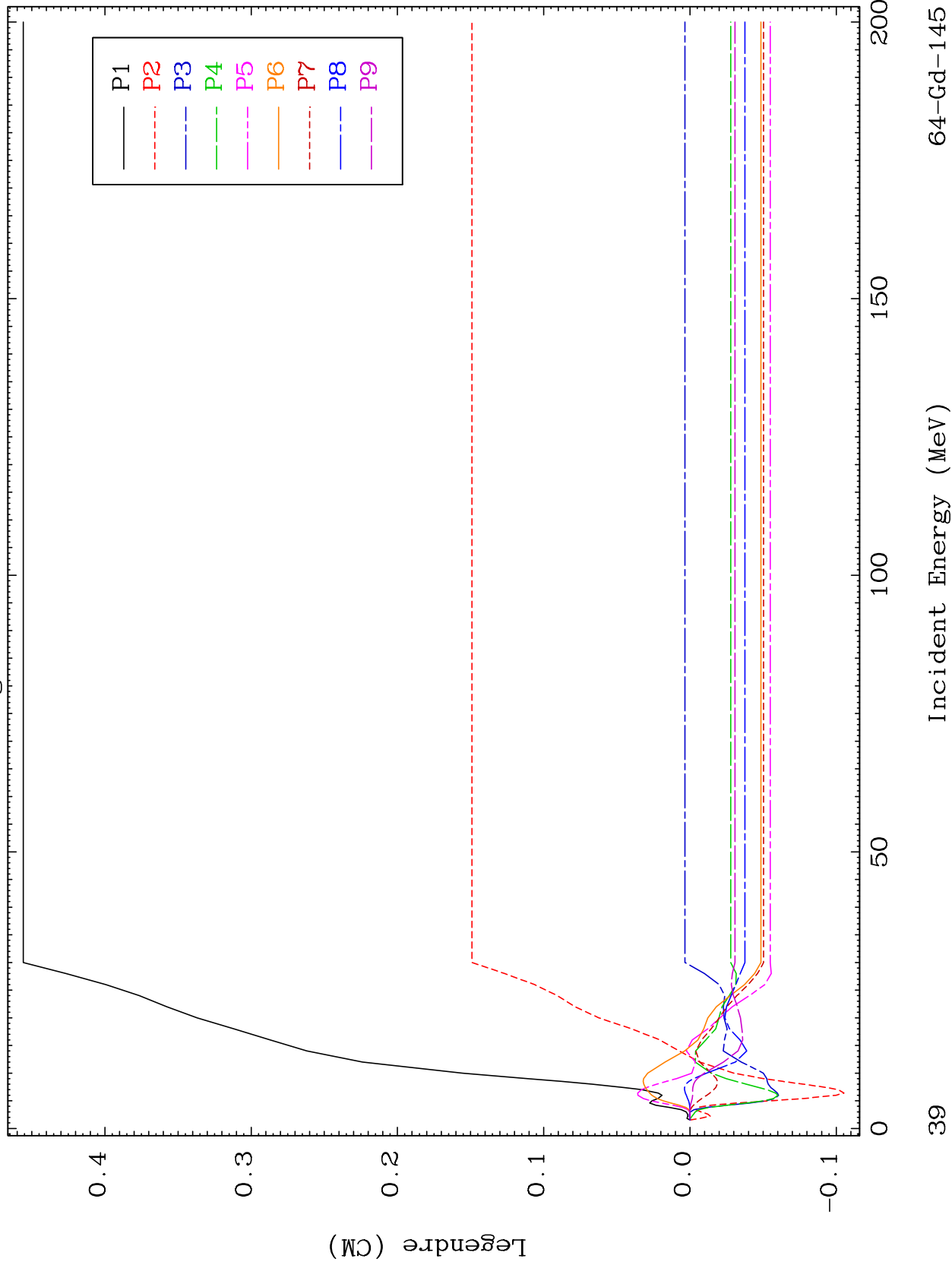
100

50

MAT 6404

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

64-Gd-145

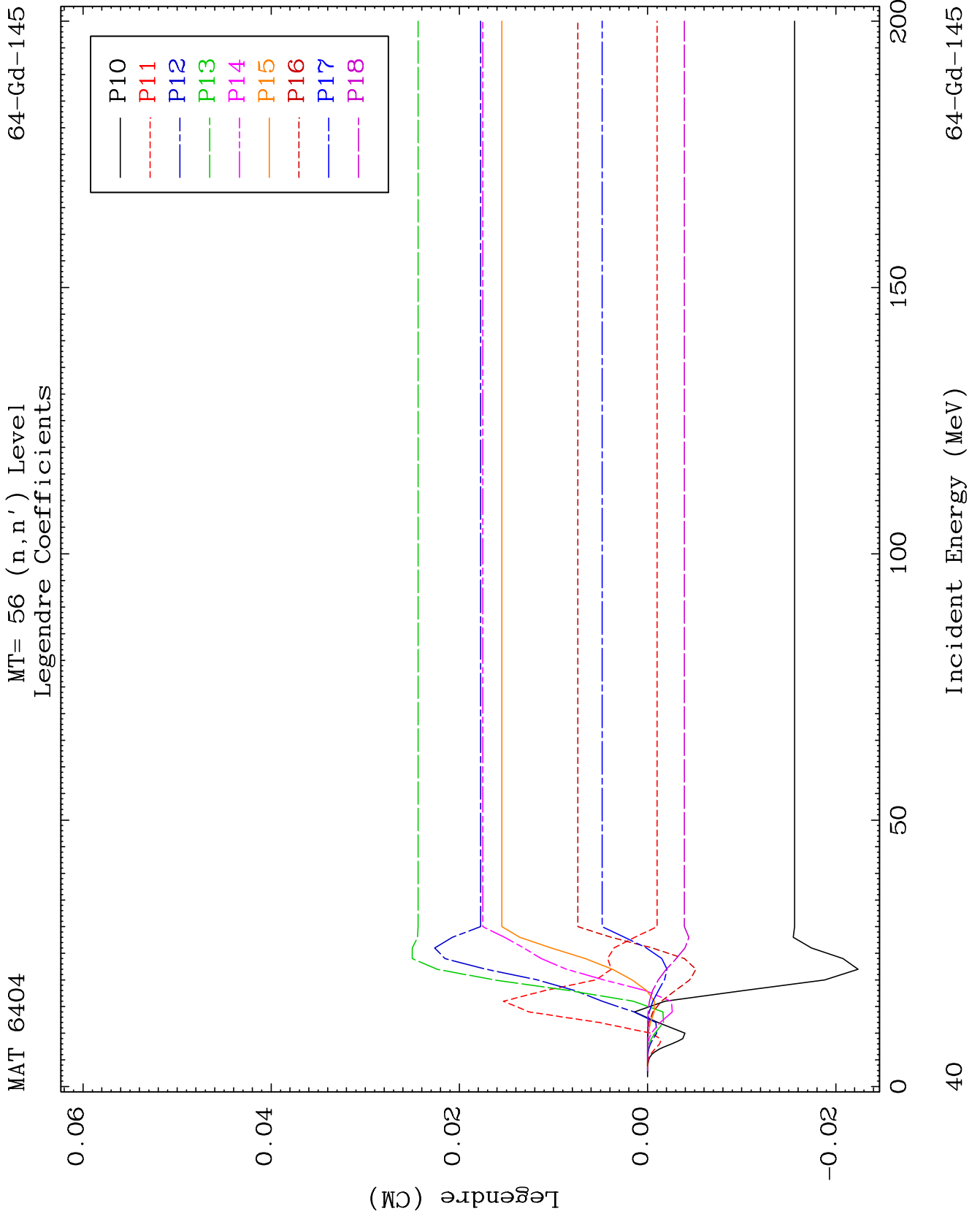


64-Gd-145

Incident Energy (MeV)

39

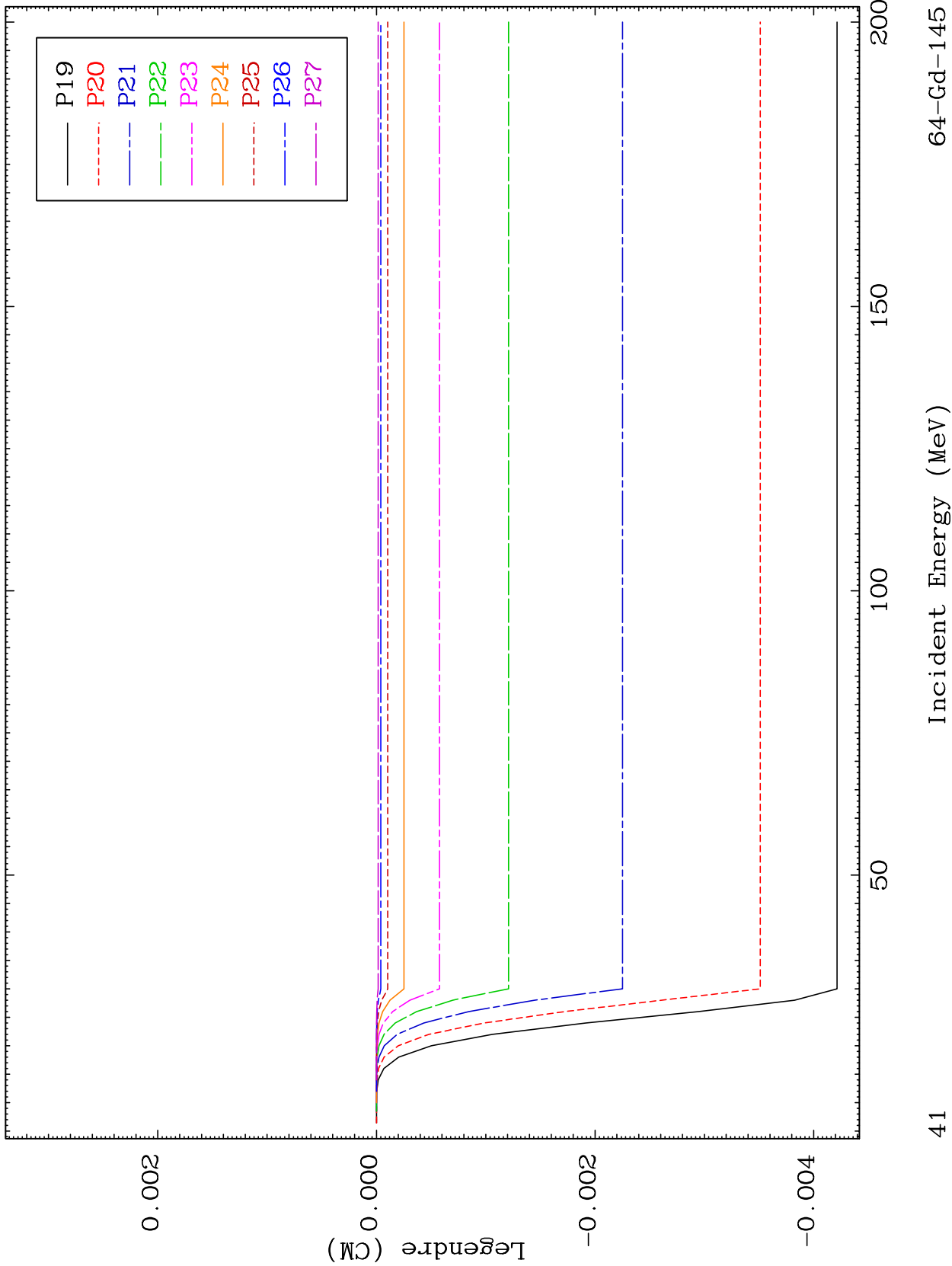




MAT 6404

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

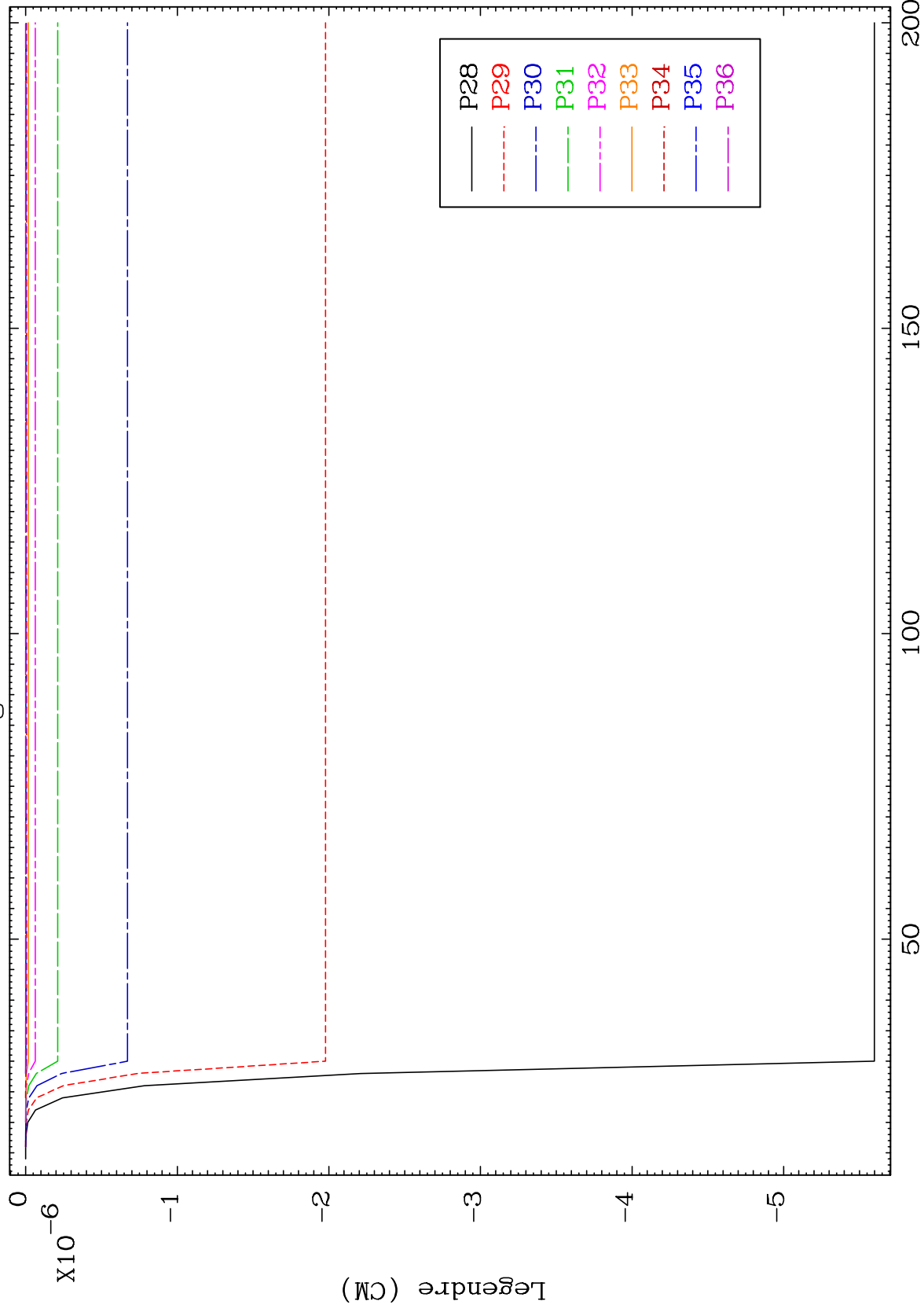
64-Gd-145



MAT 6404

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

64-Gd-145



42

Incident Energy (MeV)

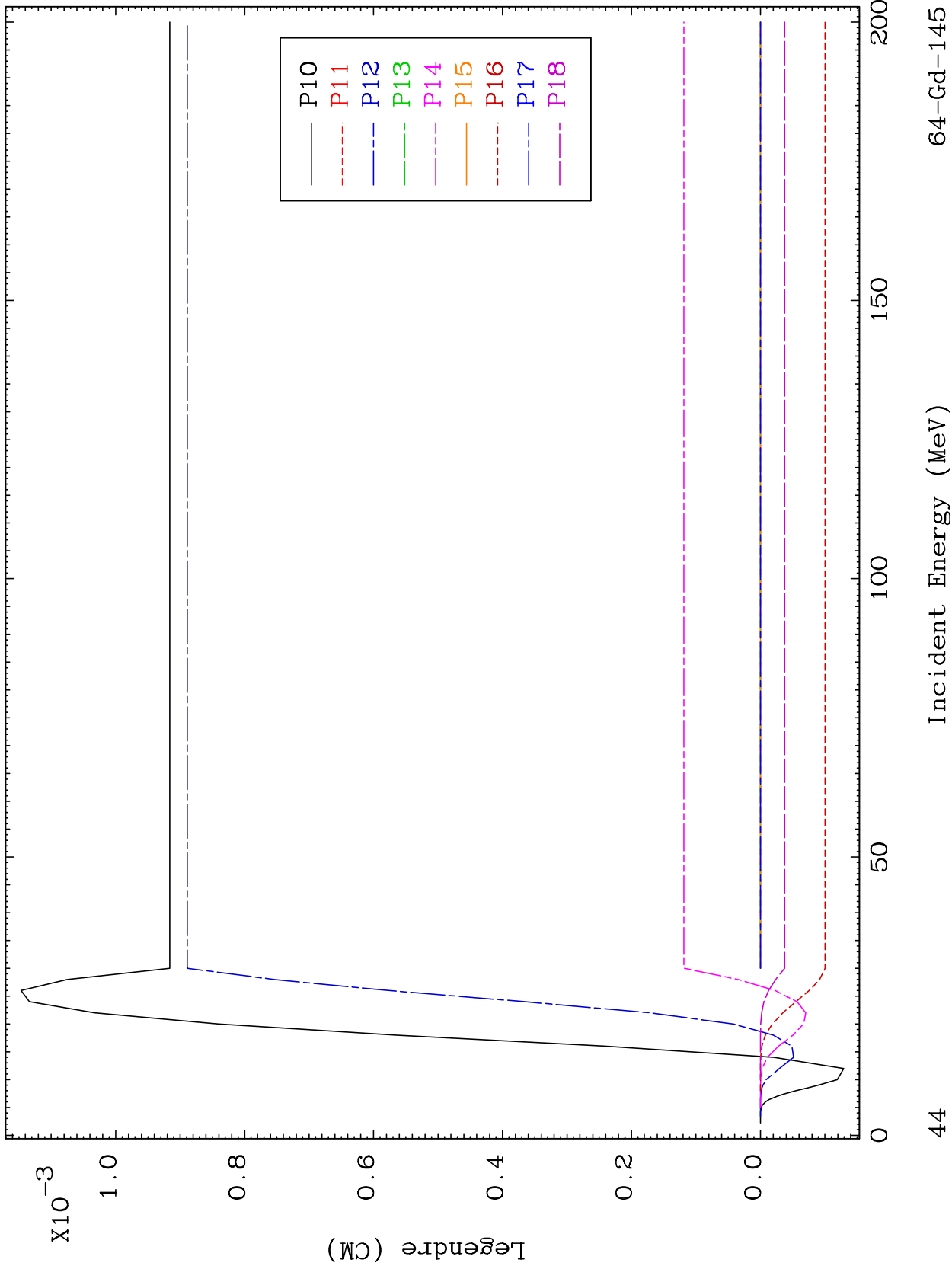
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MAT 6404

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

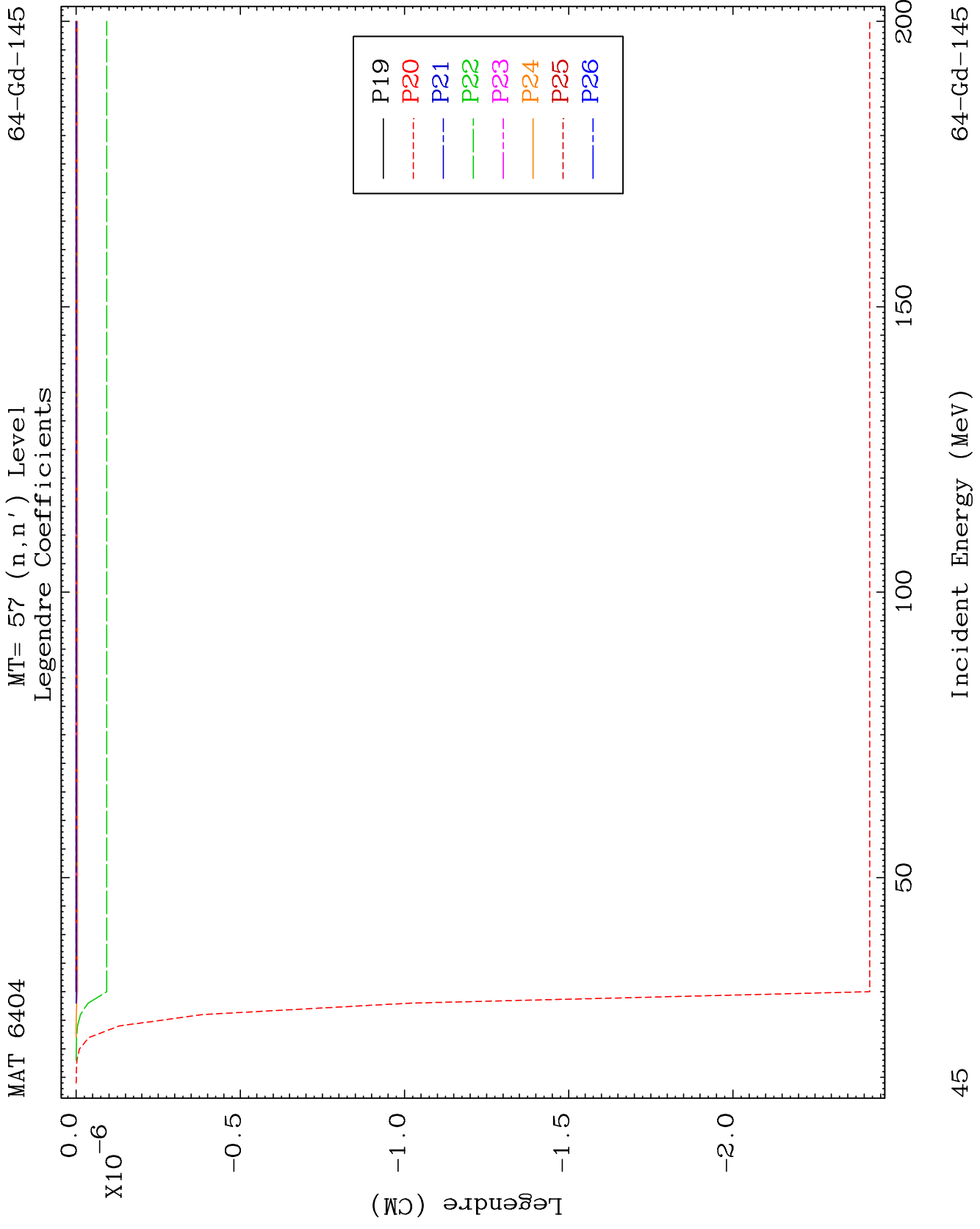
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44

Incident Energy (MeV)

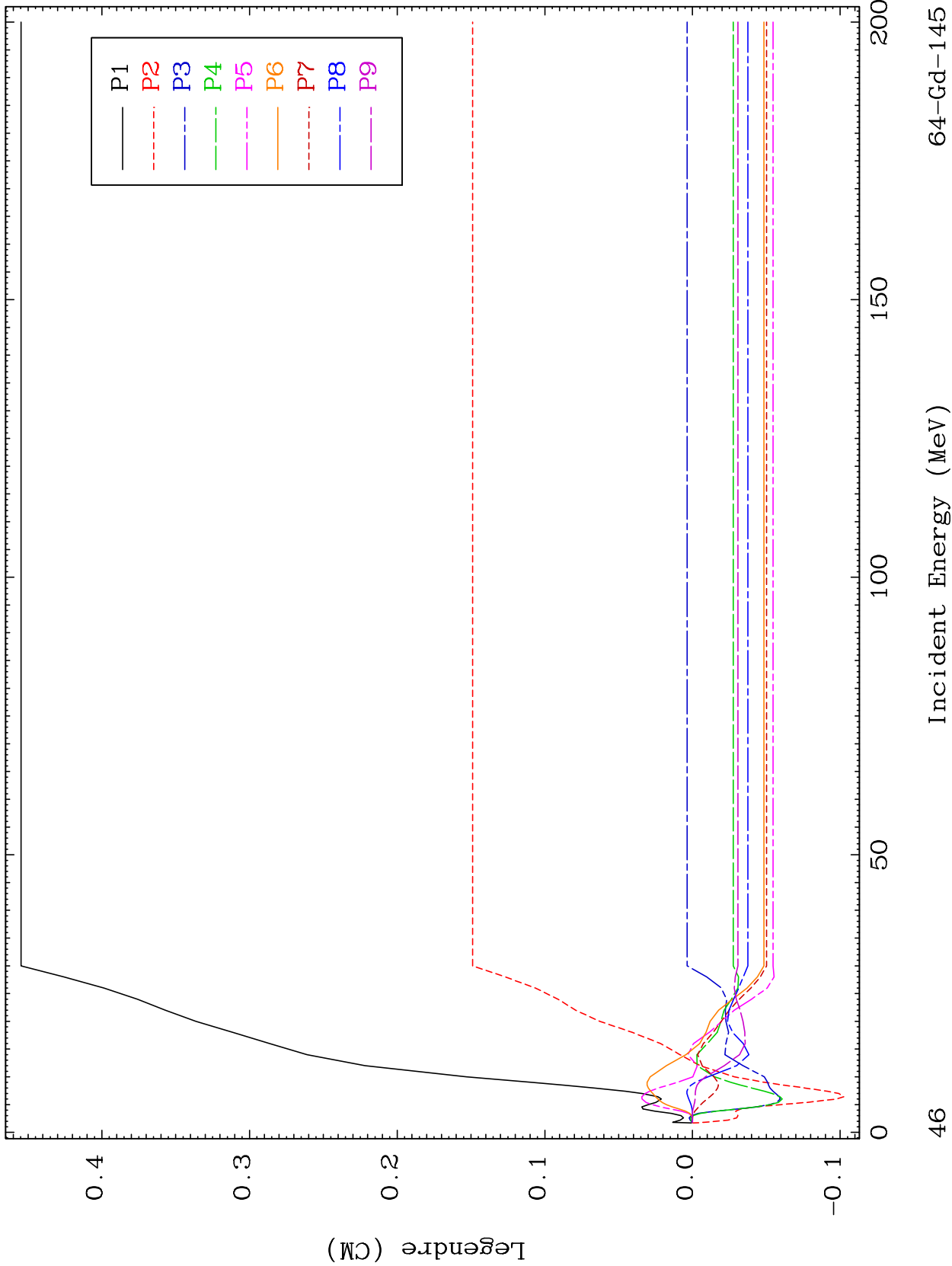
64-Gd-145



MAT 6404

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

64-Gd-145



64-Gd-145

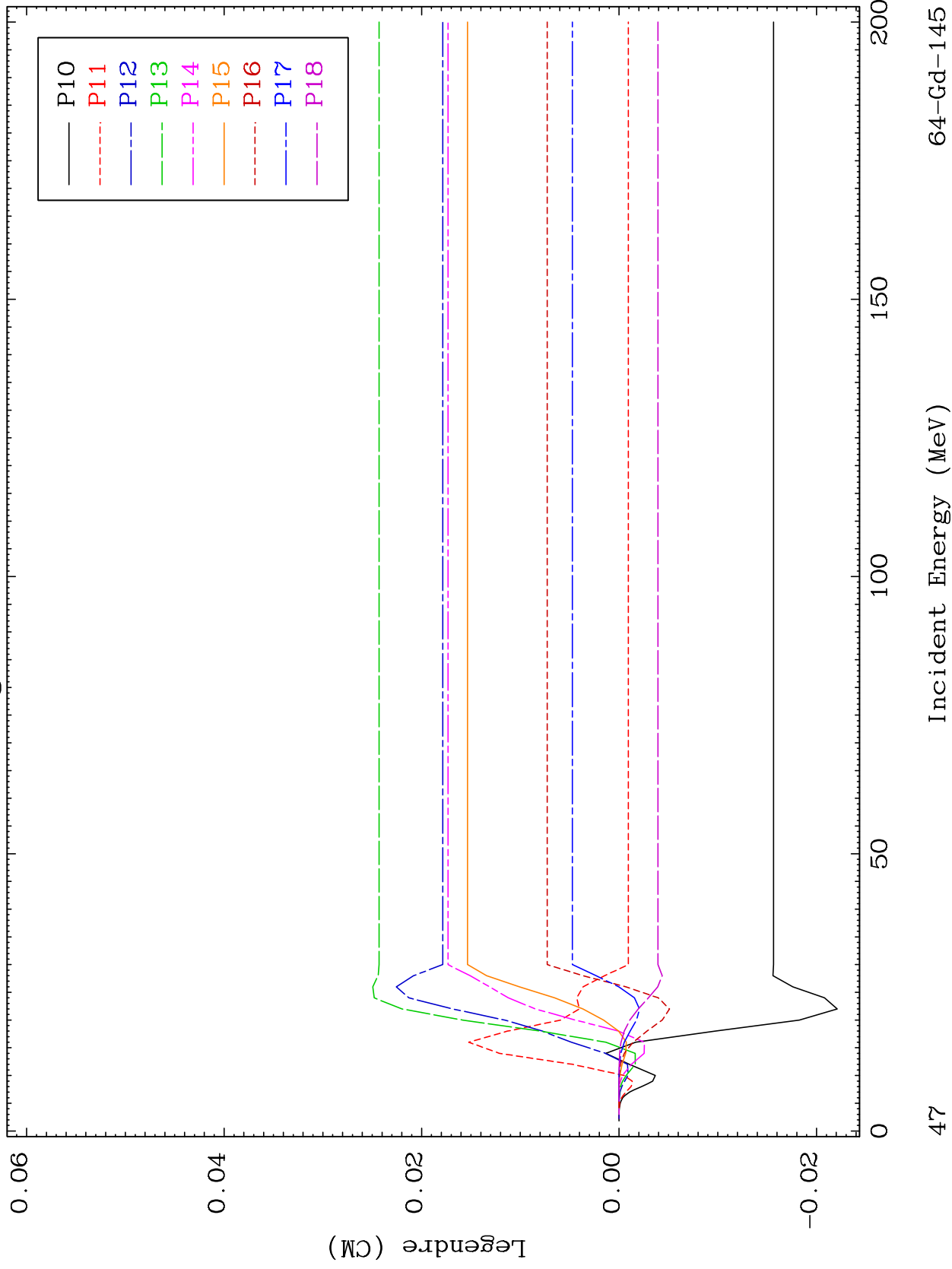
Incident Energy (MeV)

46

MAT 6404

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

64-Gd-145



47

Incident Energy (MeV)

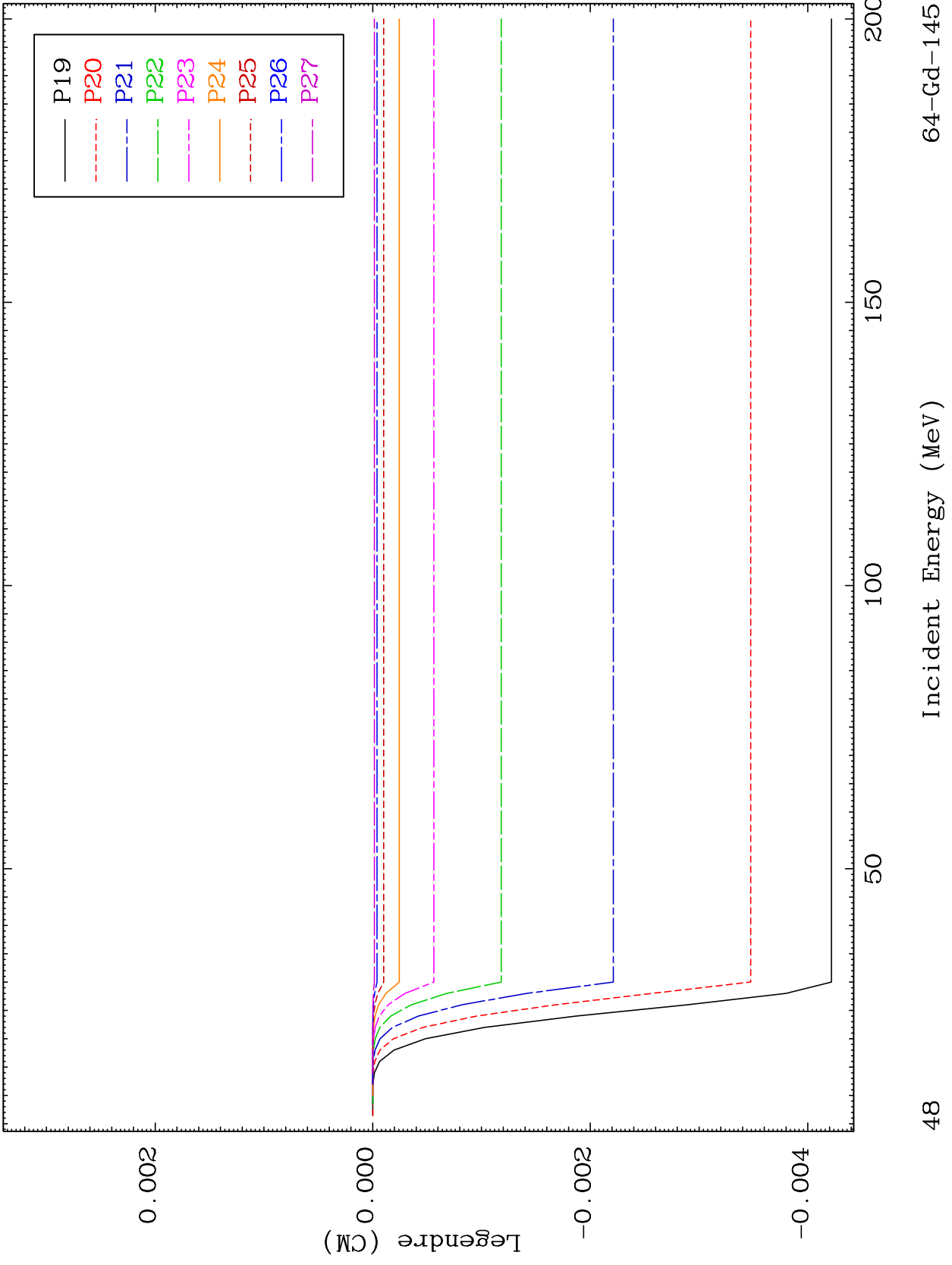
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MAT 6404

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

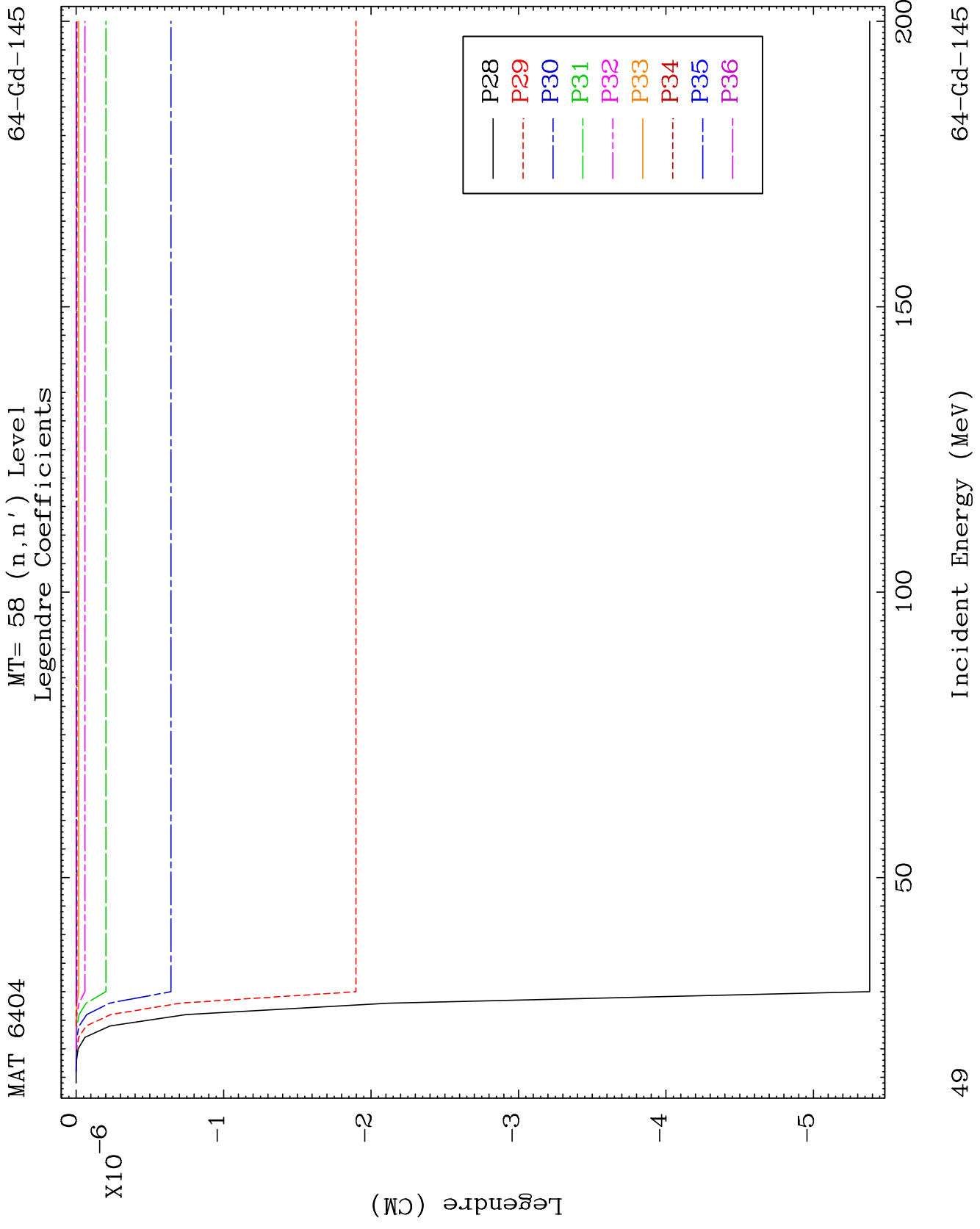
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48

Incident Energy (MeV)

64-Gd-145

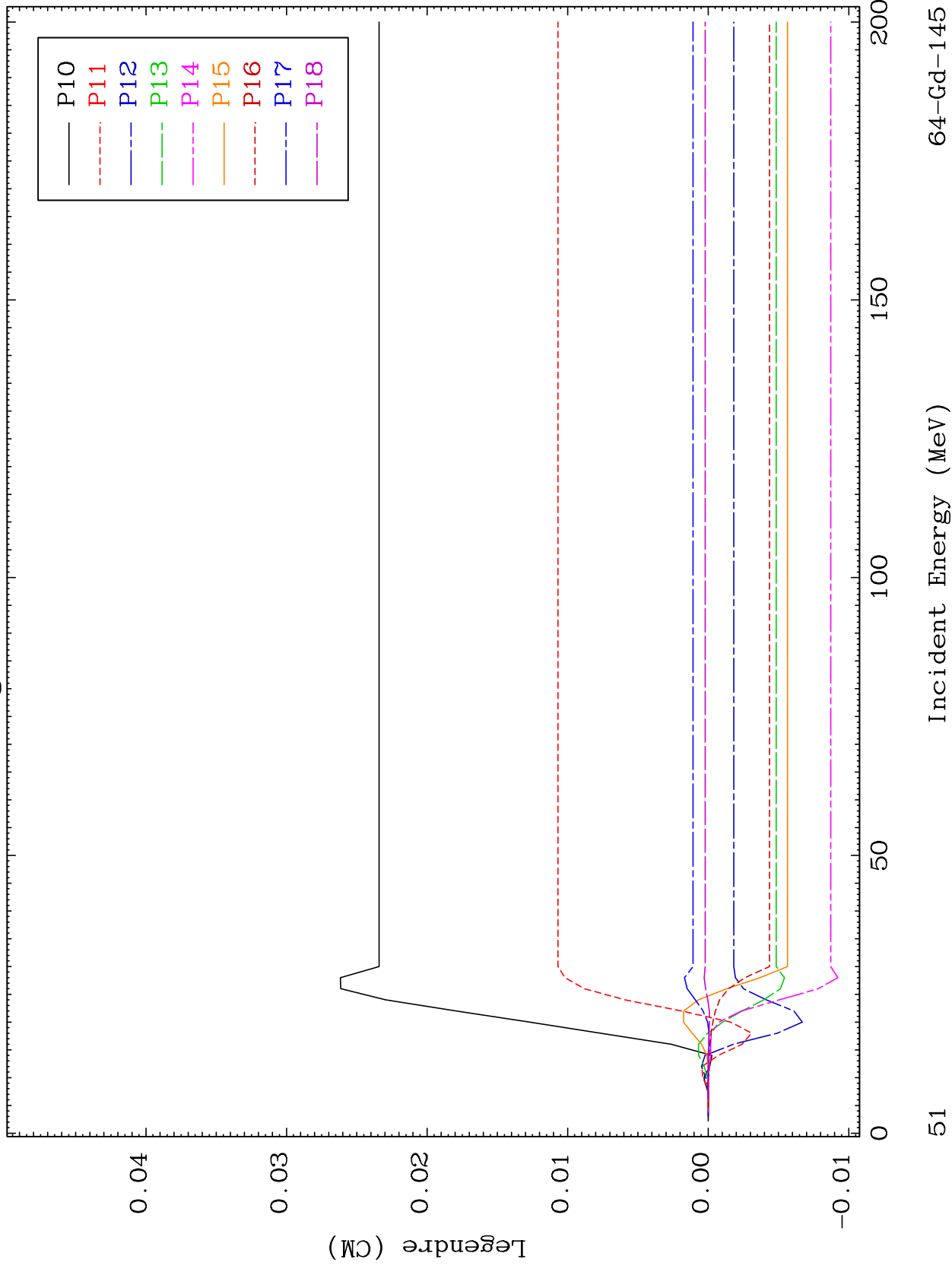




MAT 6404

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

64-Gd-145



51

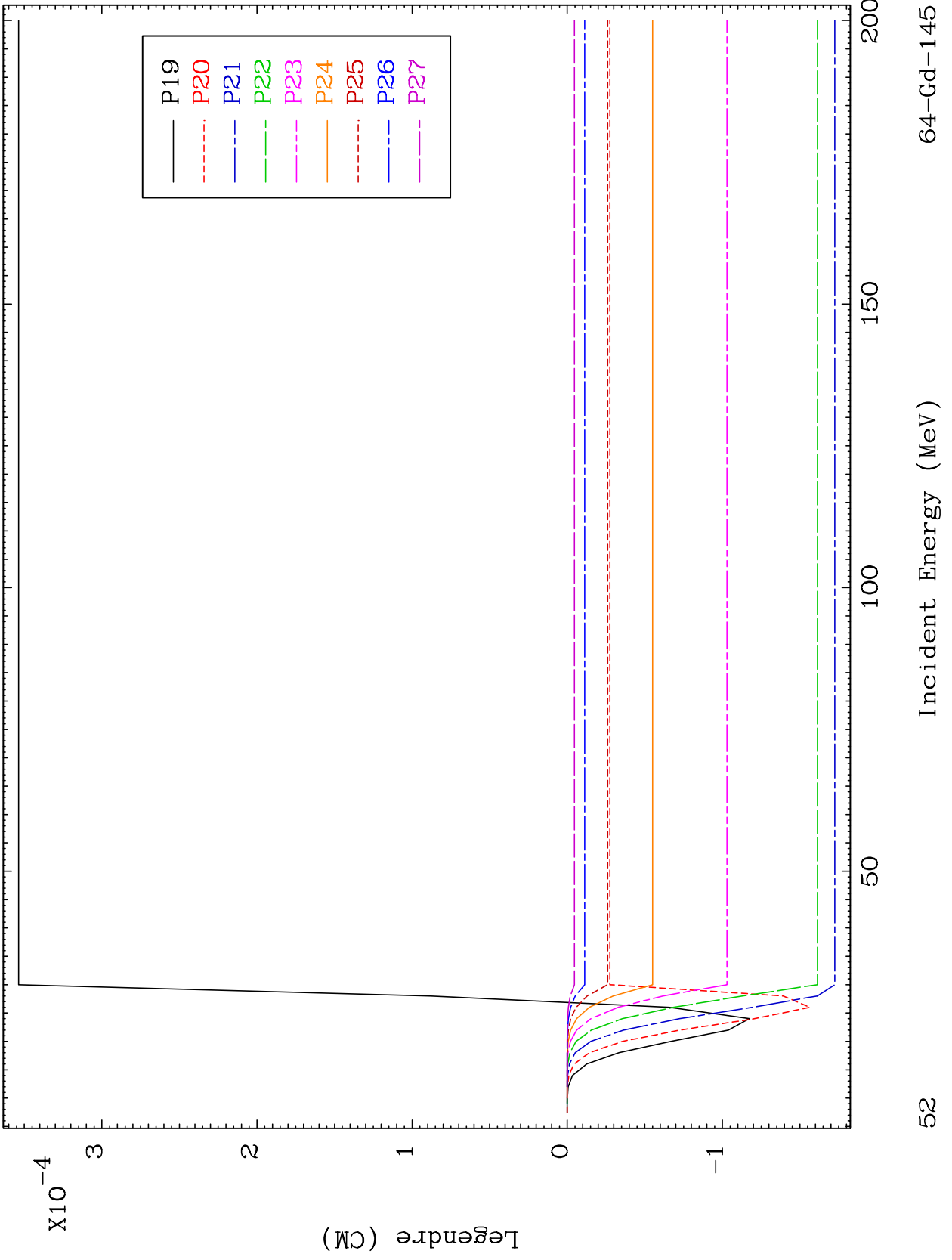
Incident Energy (MeV)

64-Gd-145

MAT 6404

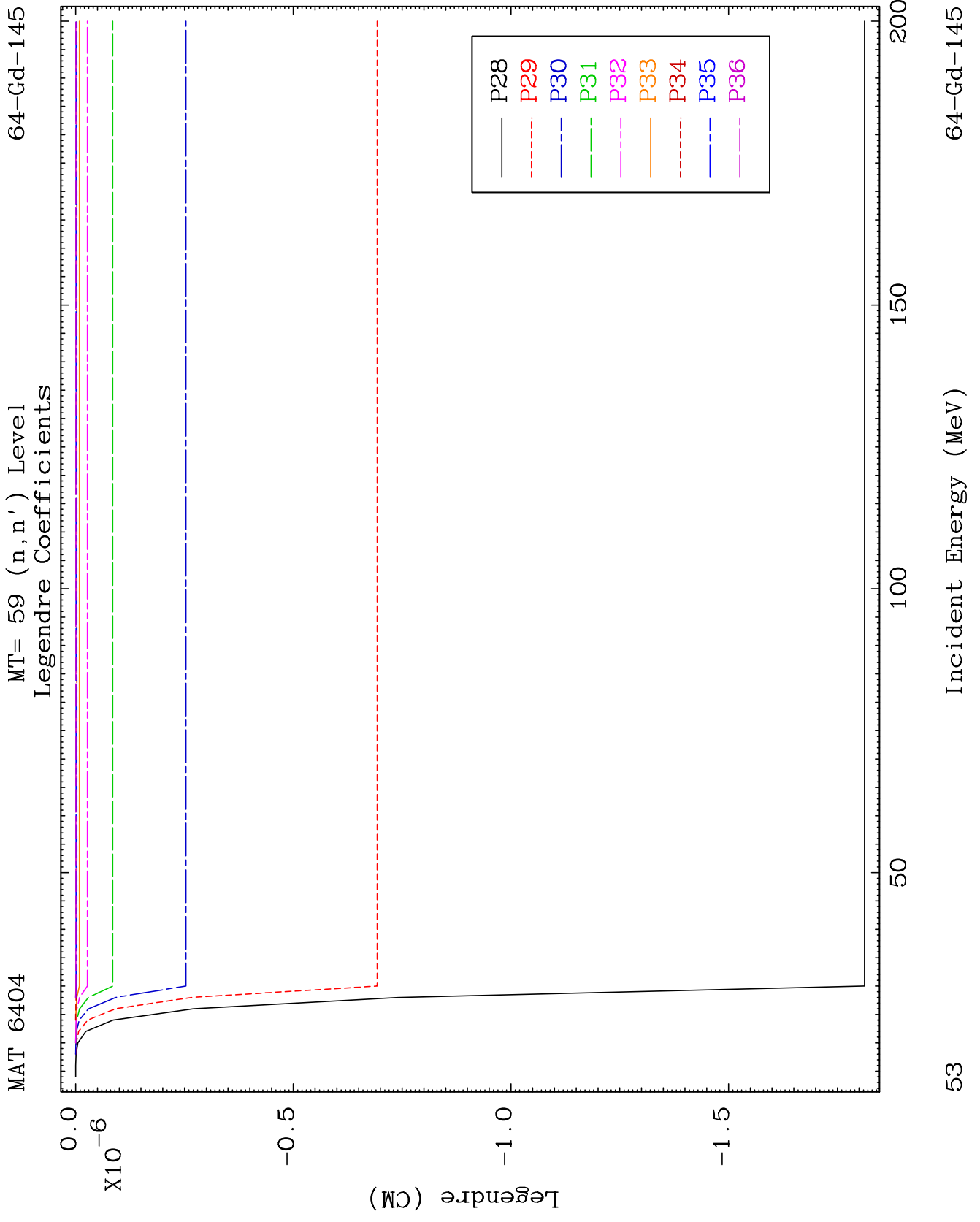
MT= 59 (n,n') Level  
Legendre Coefficients

64-Gd-145



52

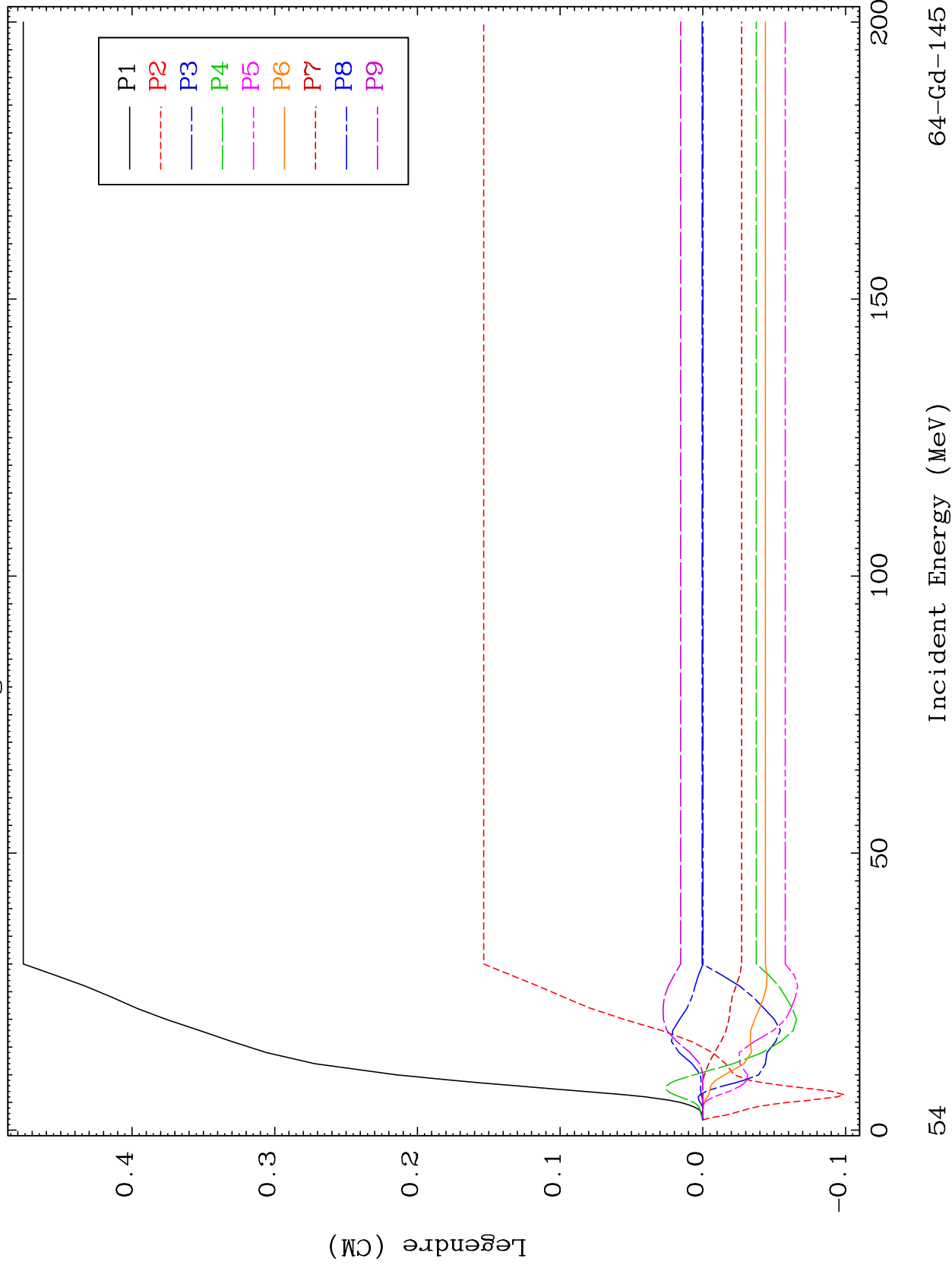
64-Gd-145



MAT 6404

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

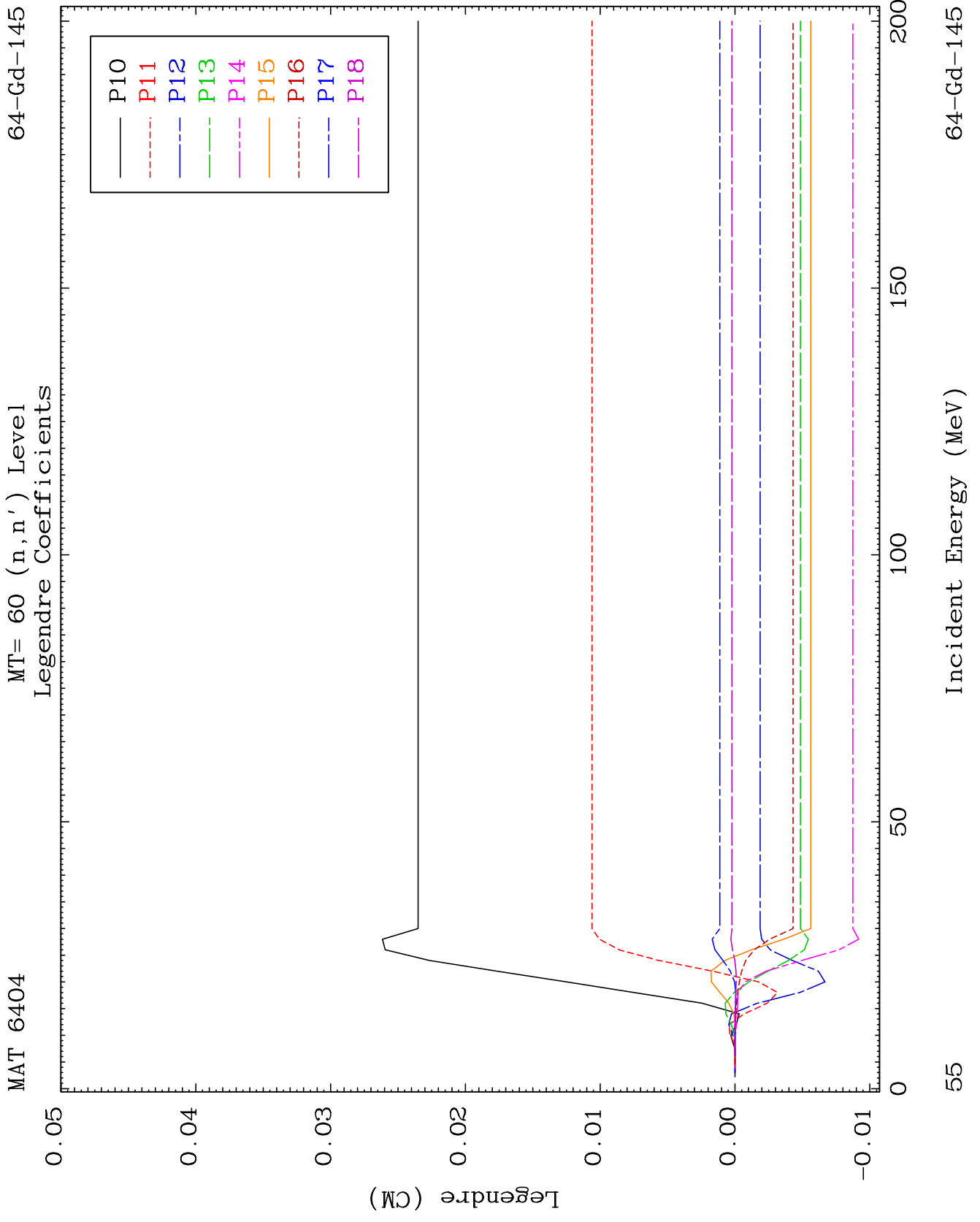
64-Gd-145



64-Gd-145

Incident Energy (MeV)

54

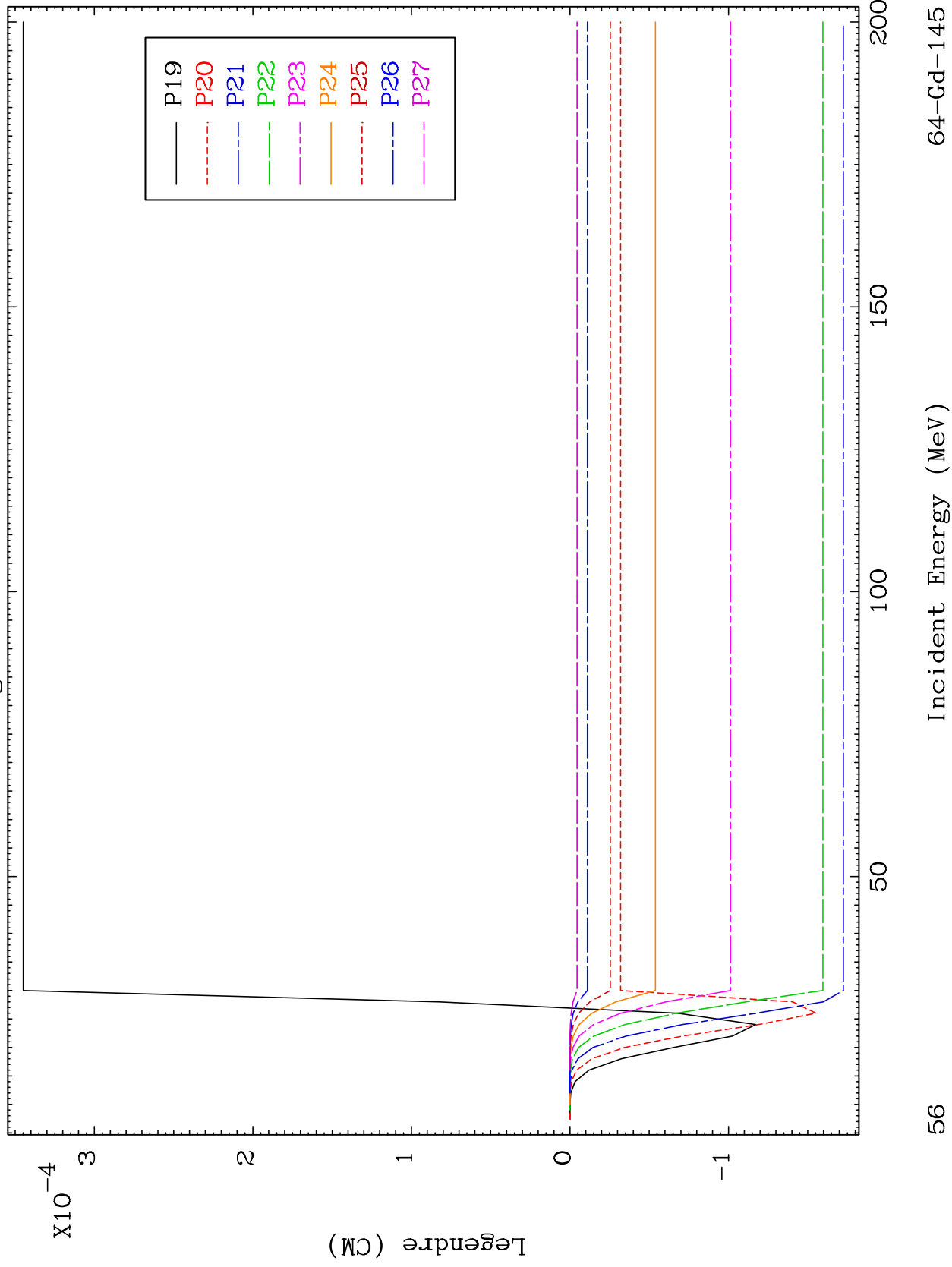




MAT 6404

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

64-Gd-145



56

Incident Energy (MeV)

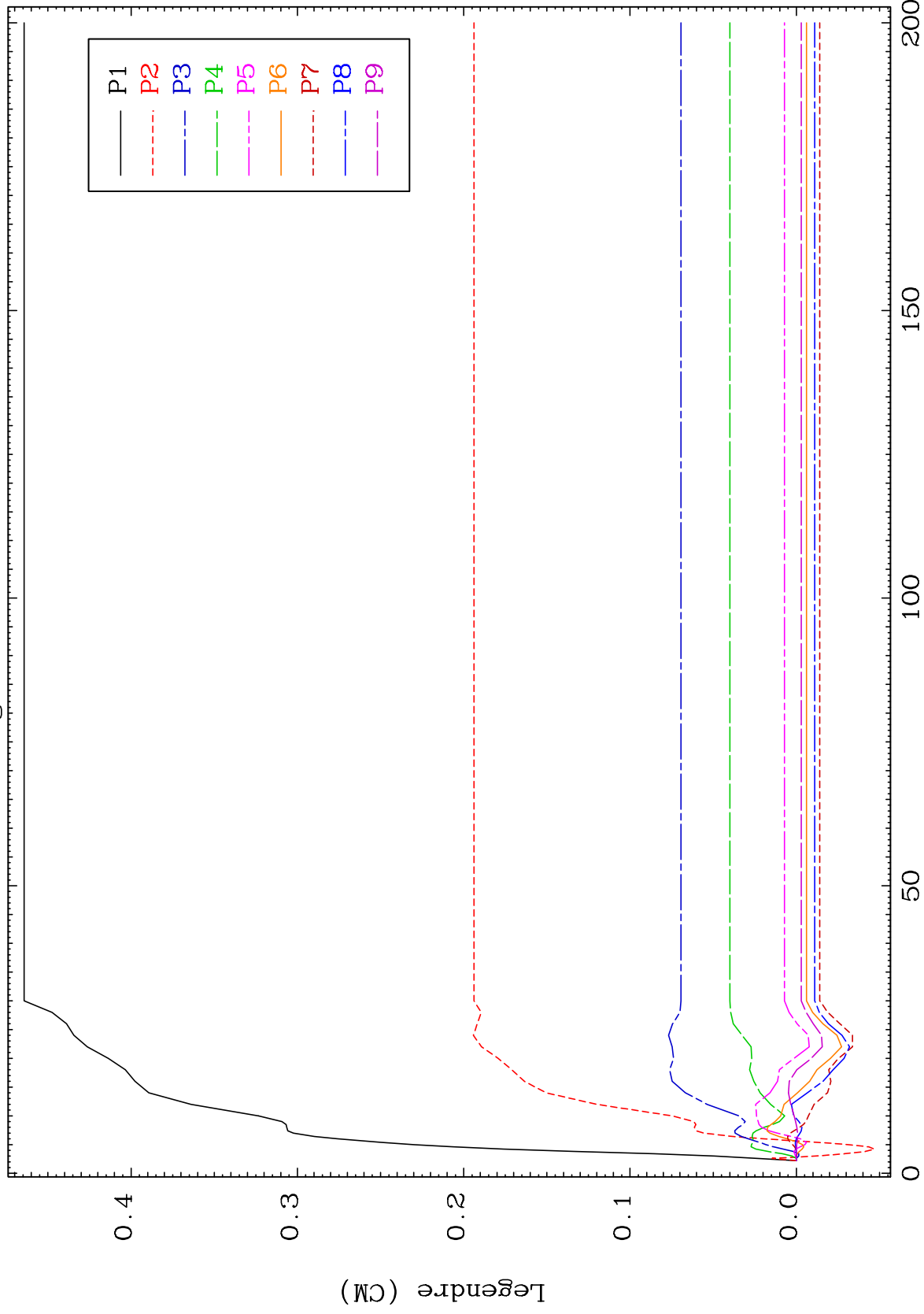
64-Gd-145



MAT 6404

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

64-Gd-145



64-Gd-145

Incident Energy (MeV)

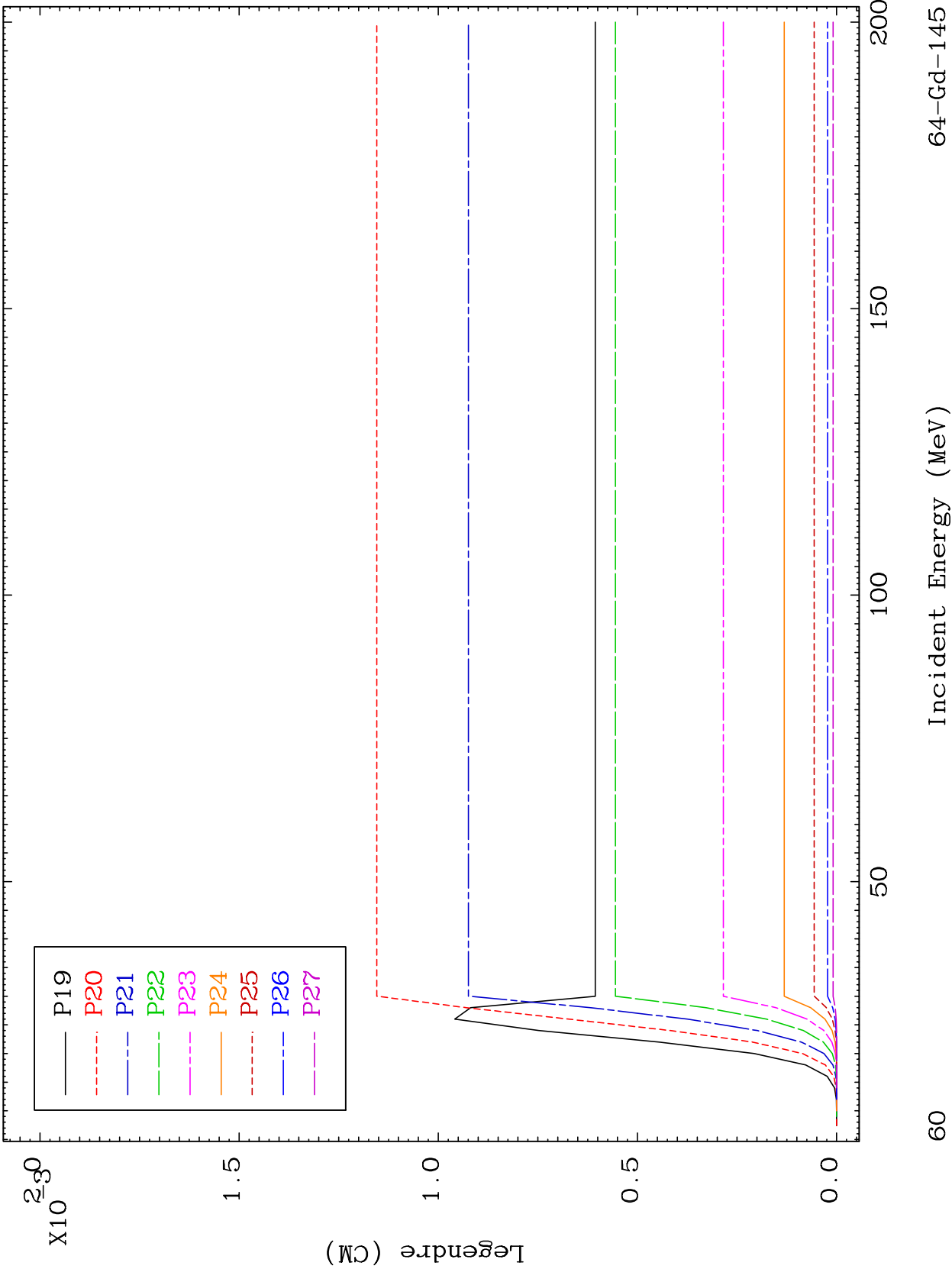
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MAT 6404

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

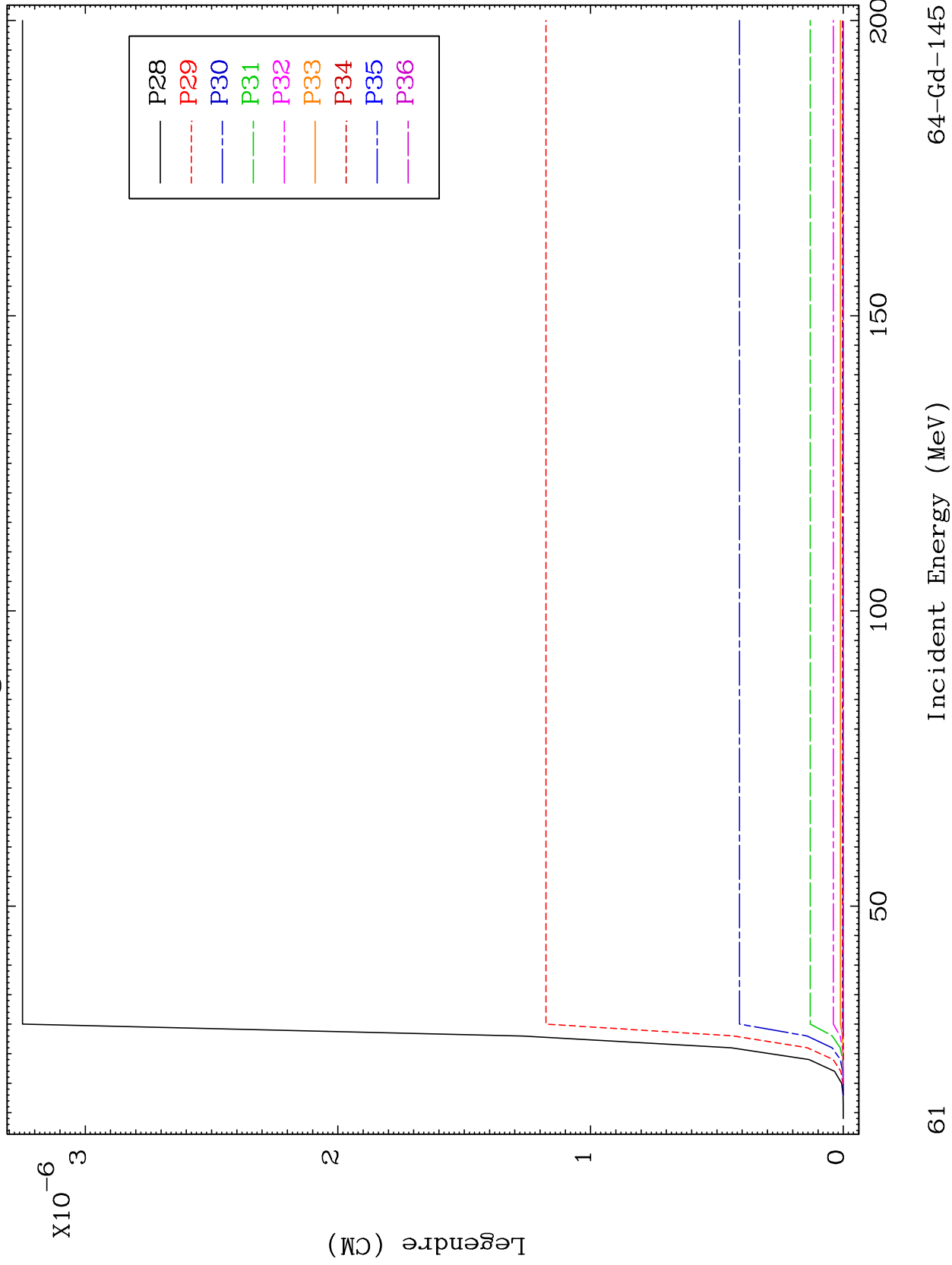
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MAT 6404

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

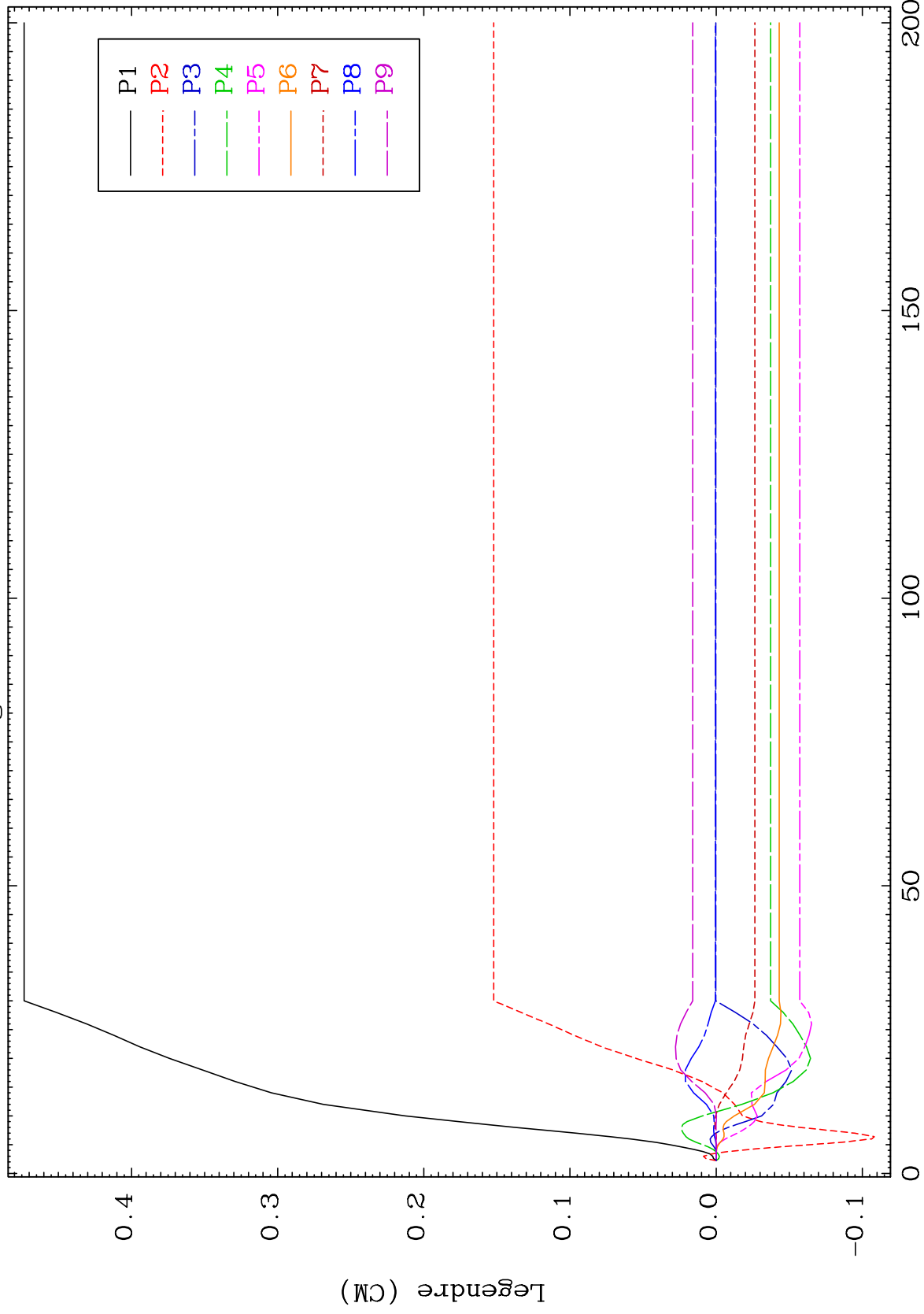
64-Gd-145



MAT 6404

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

64-Gd-145



64-Gd-145

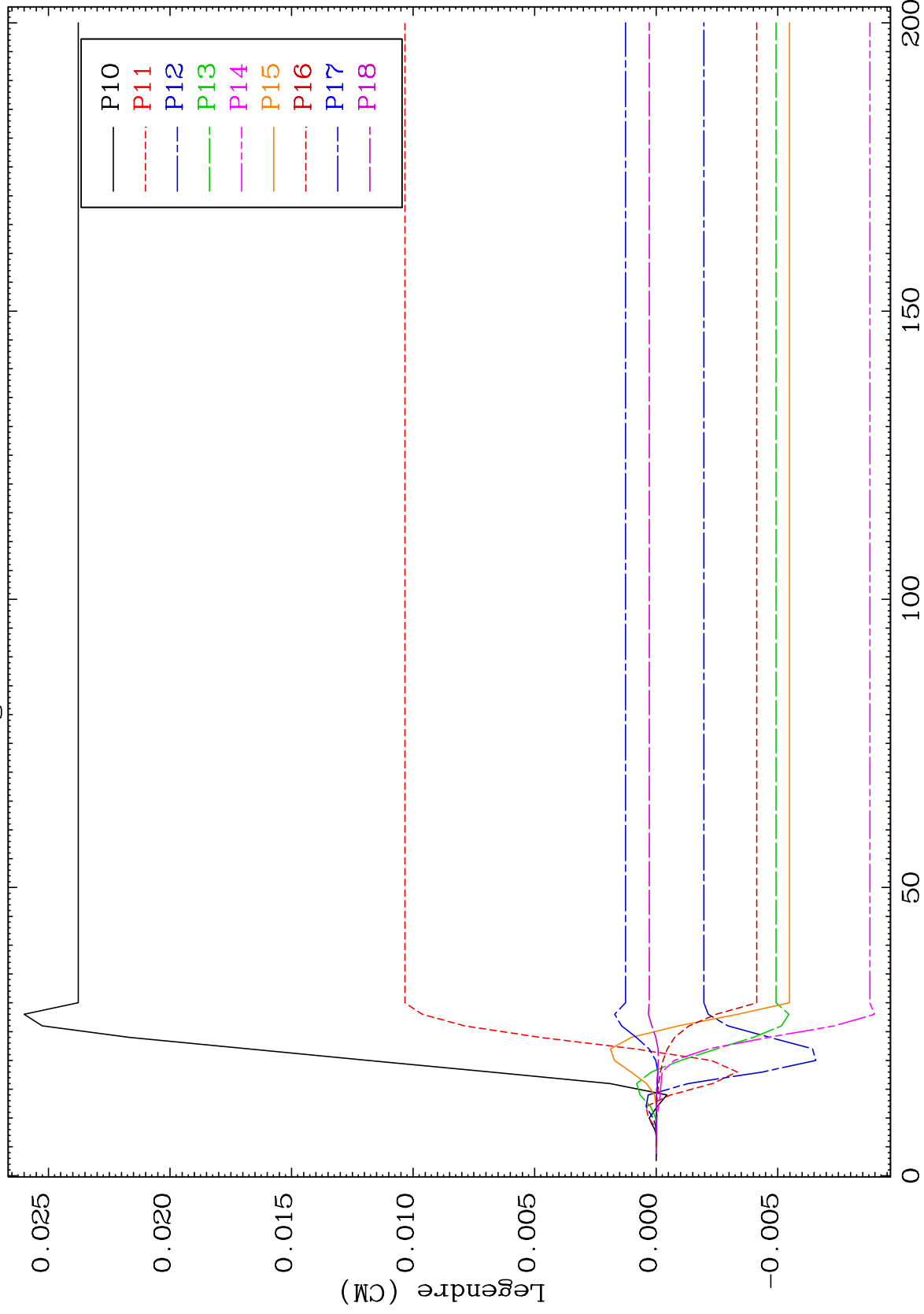
Incident Energy (MeV)

62

MAT 6404

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

64-Gd-145



63

Incident Energy (MeV)

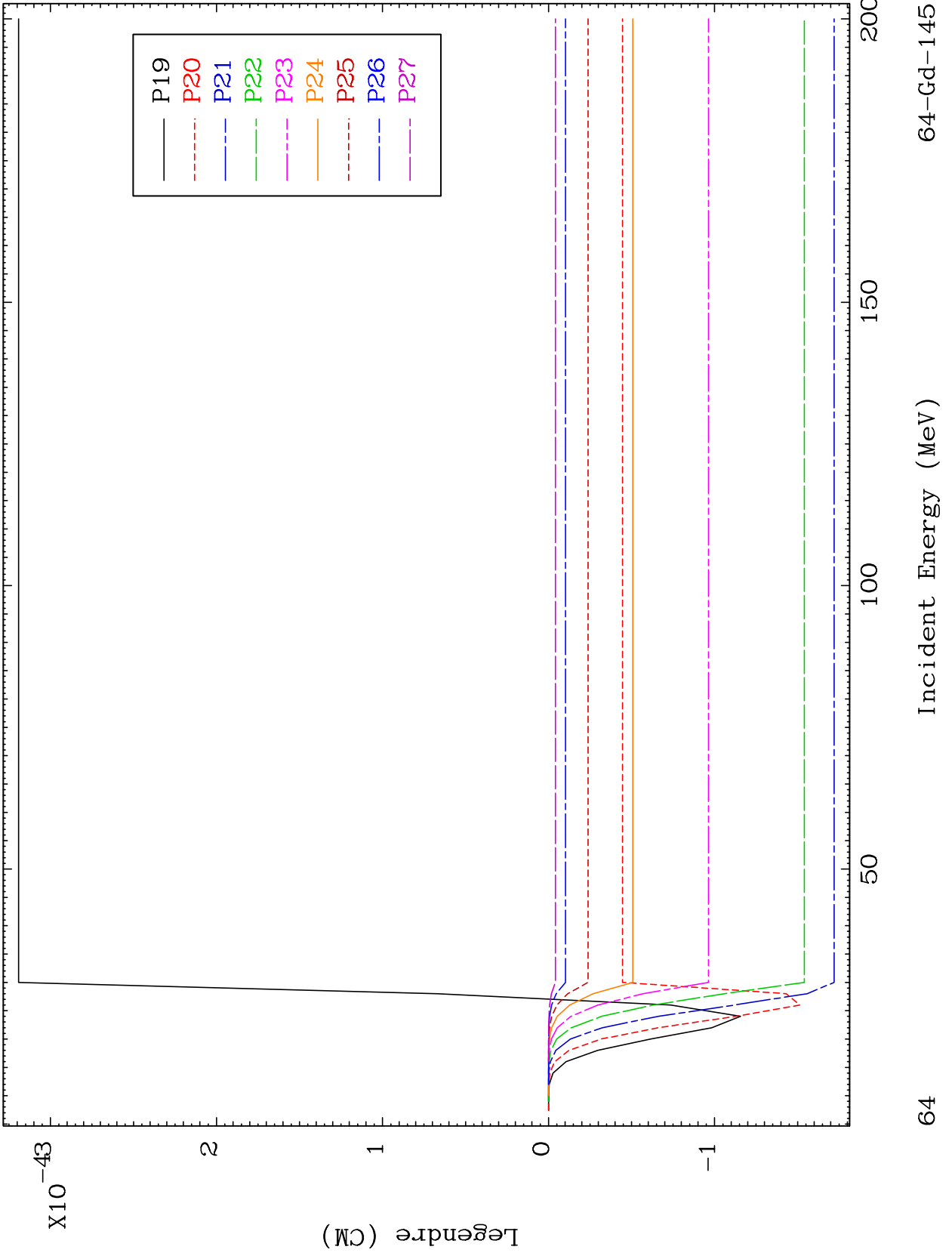
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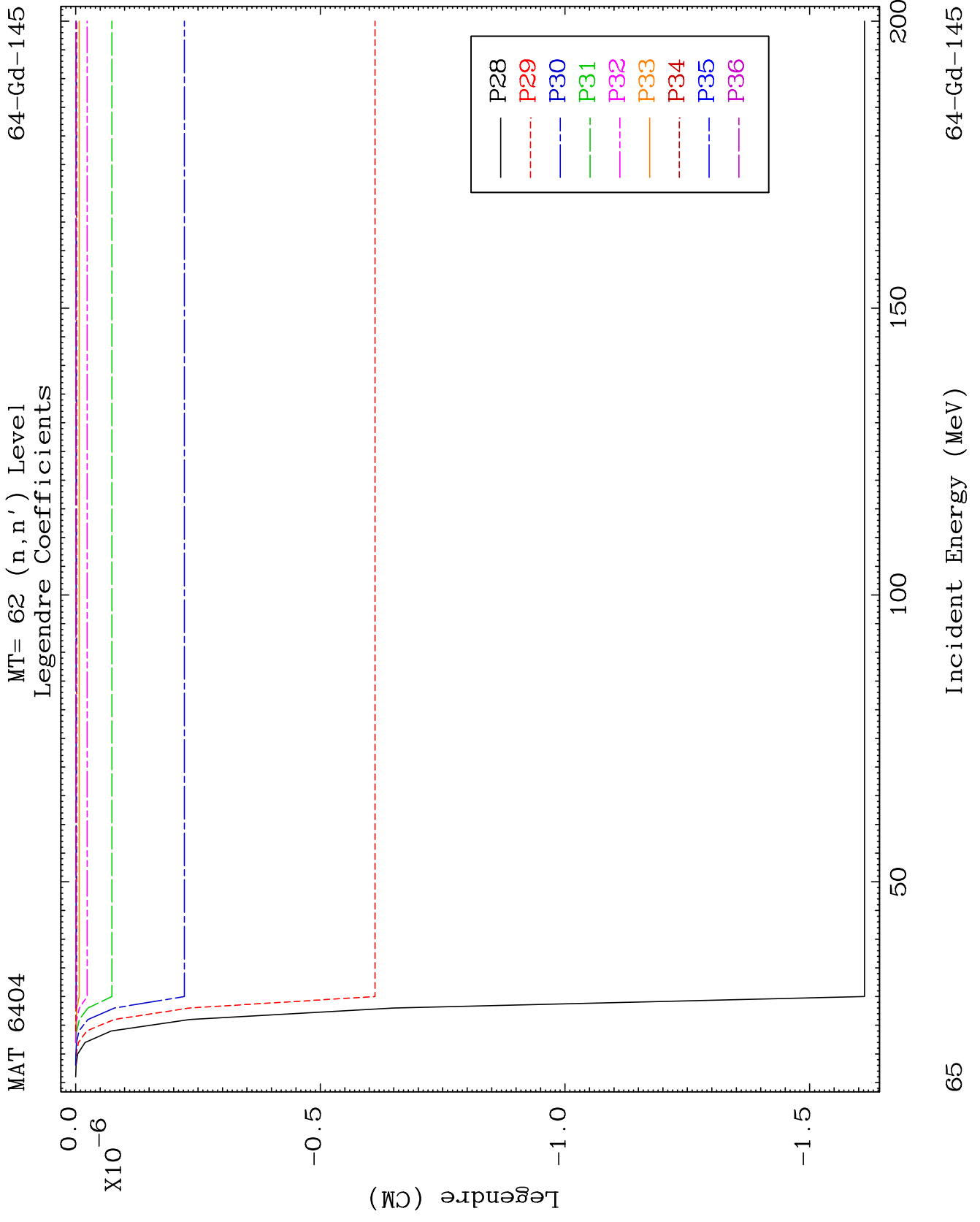


MAT 6404

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

64-Gd-145

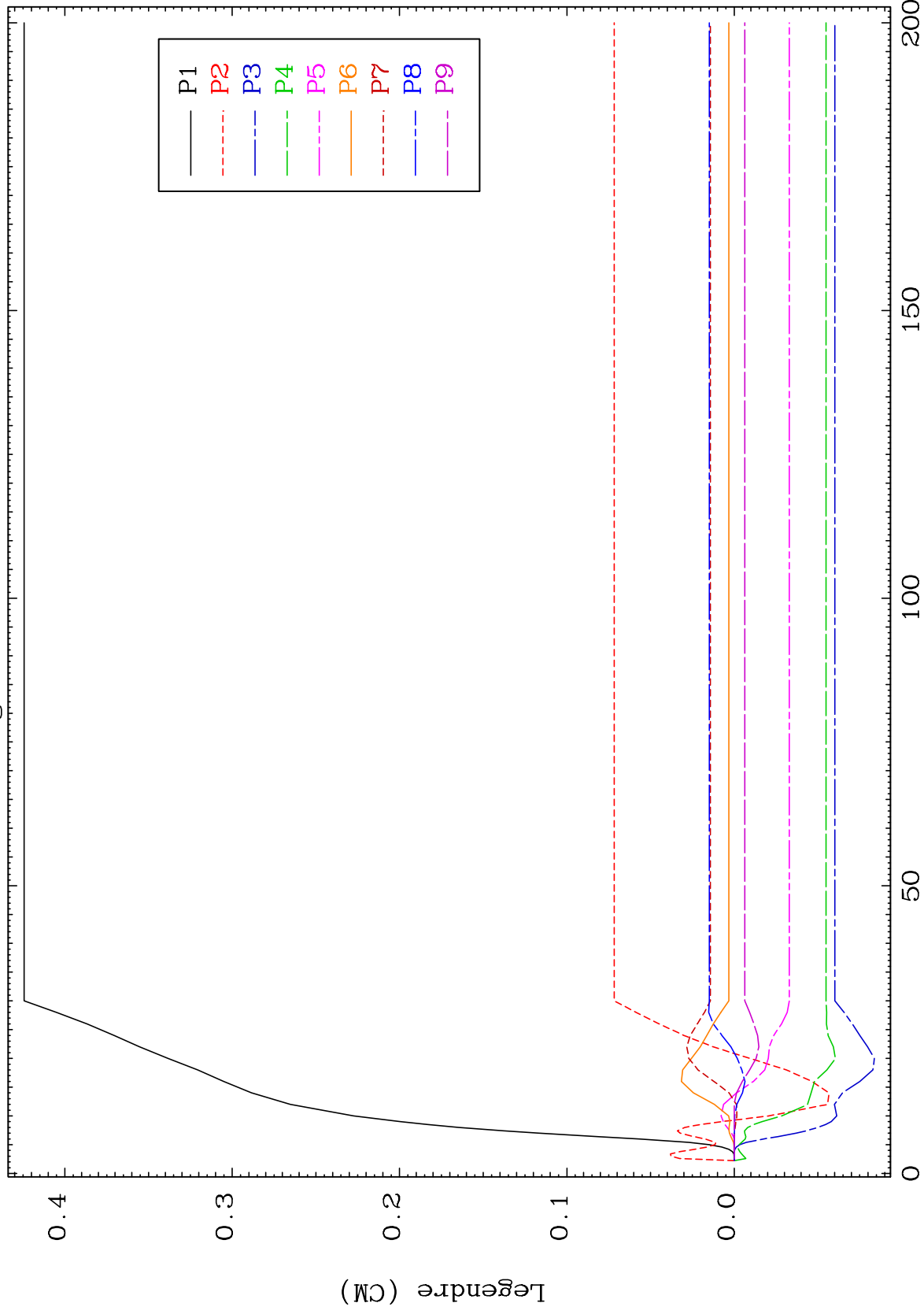




MAT 6404

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

64-Gd-145



66

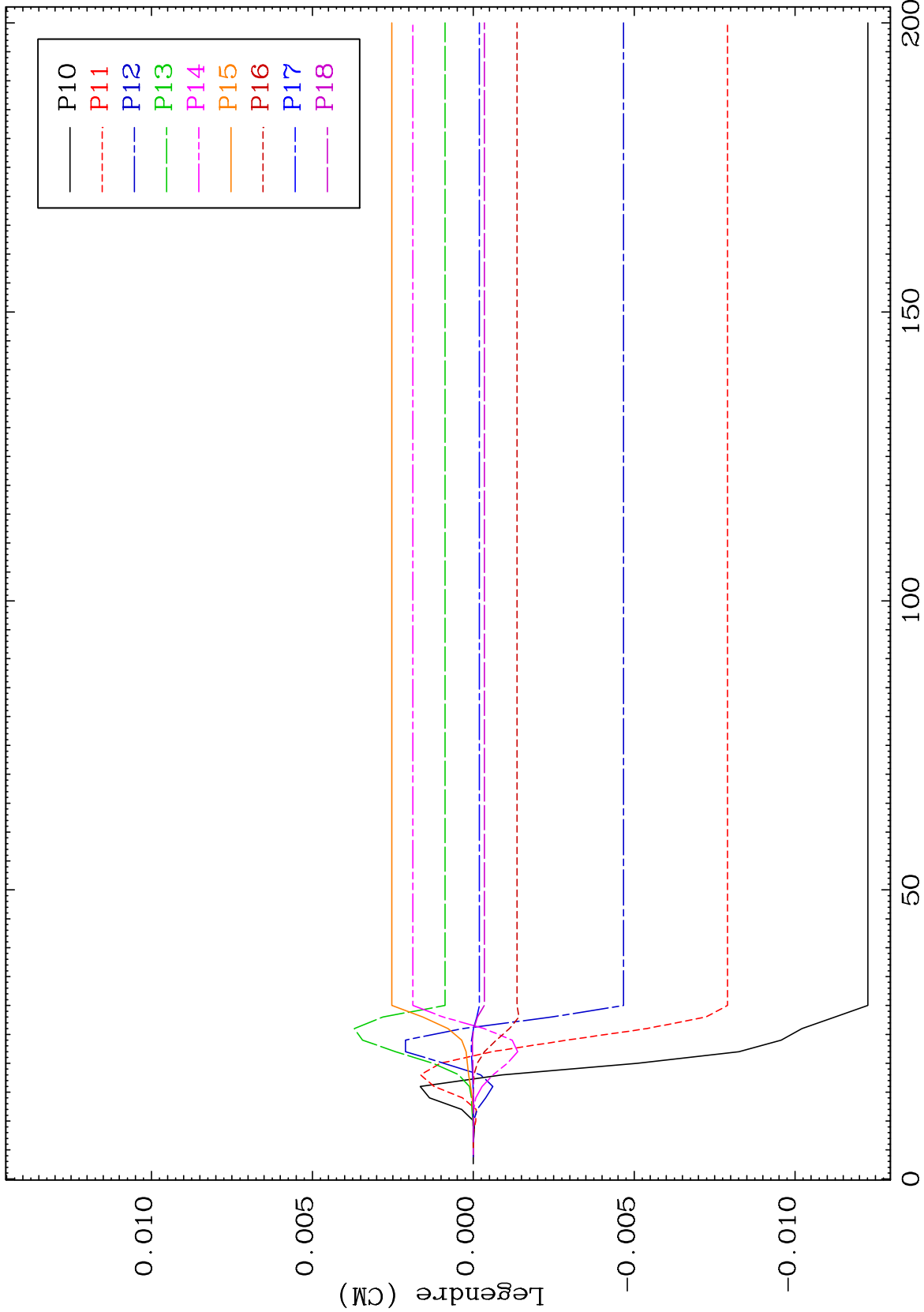
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145

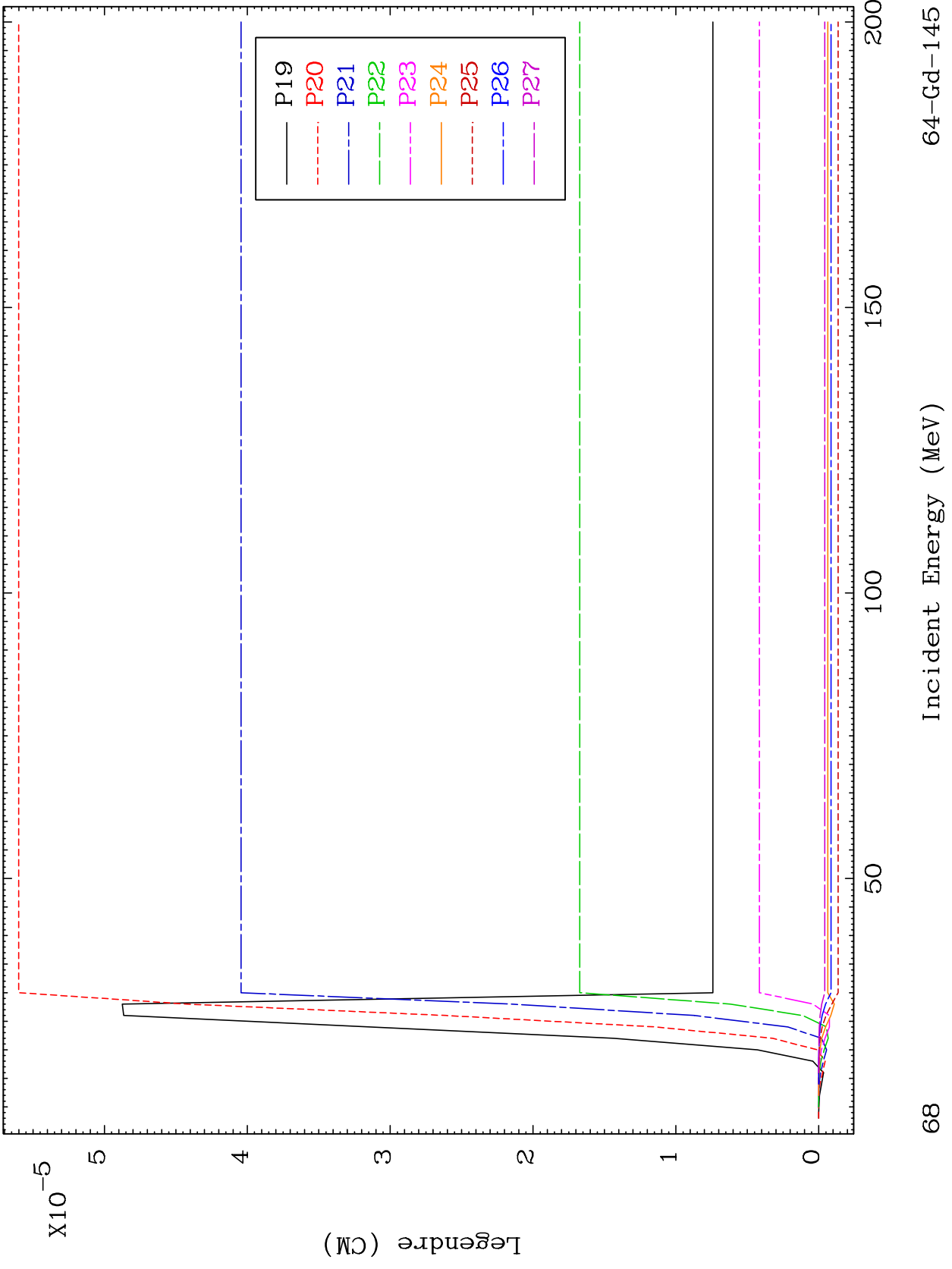


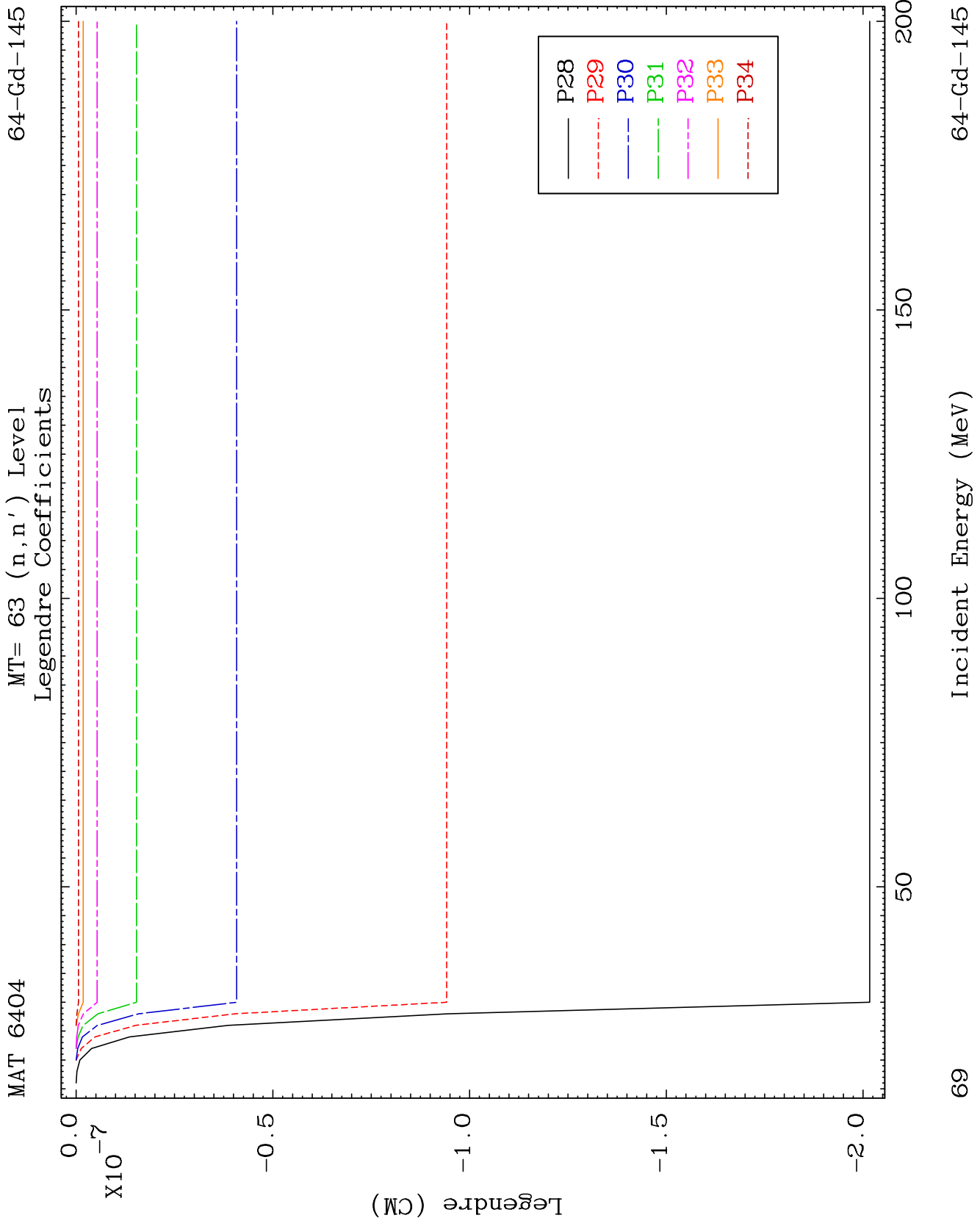
67

Incident Energy (MeV)

64-Gd-145

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

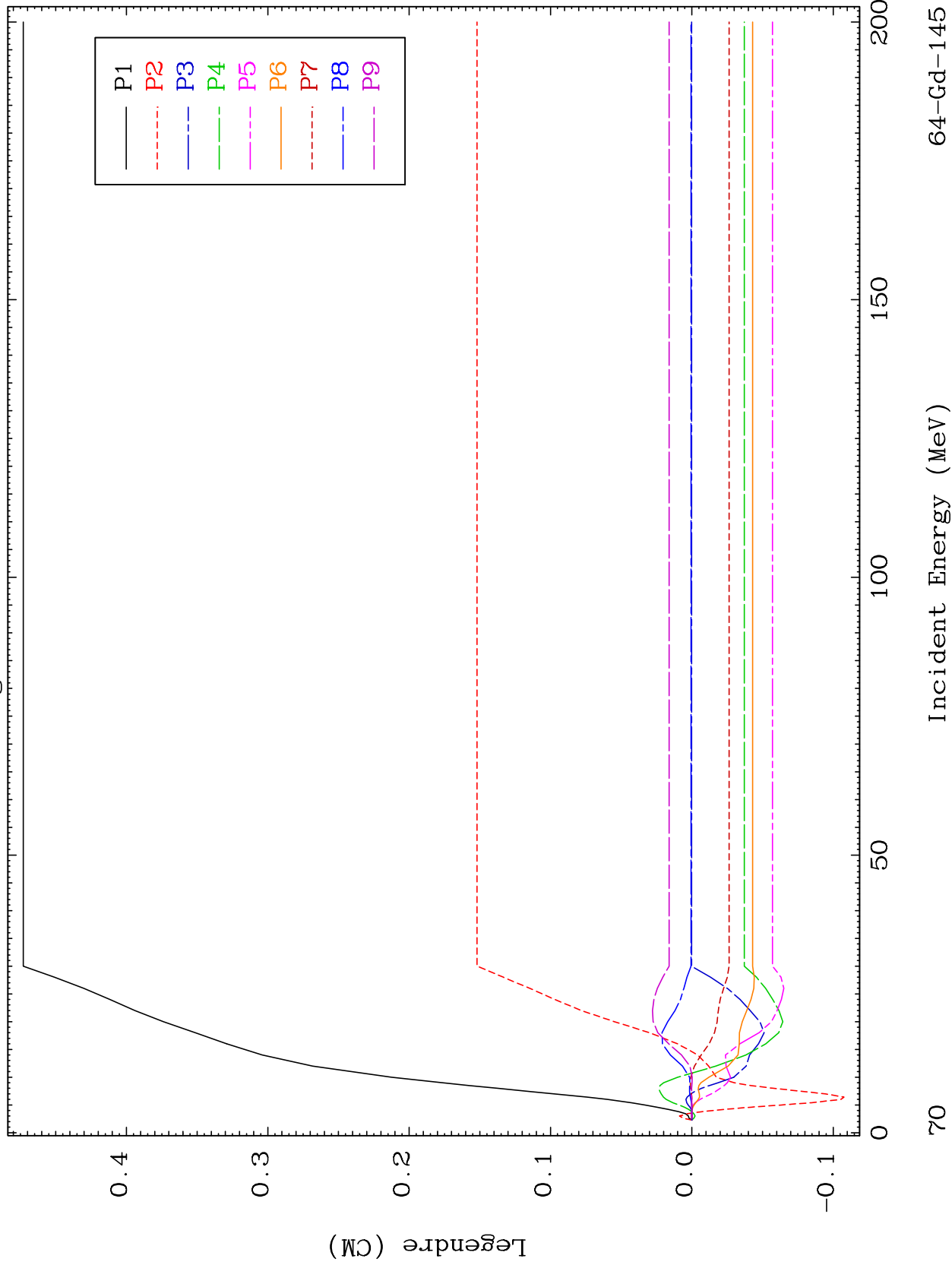




MAT 6404

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

64-Gd-145



64-Gd-145

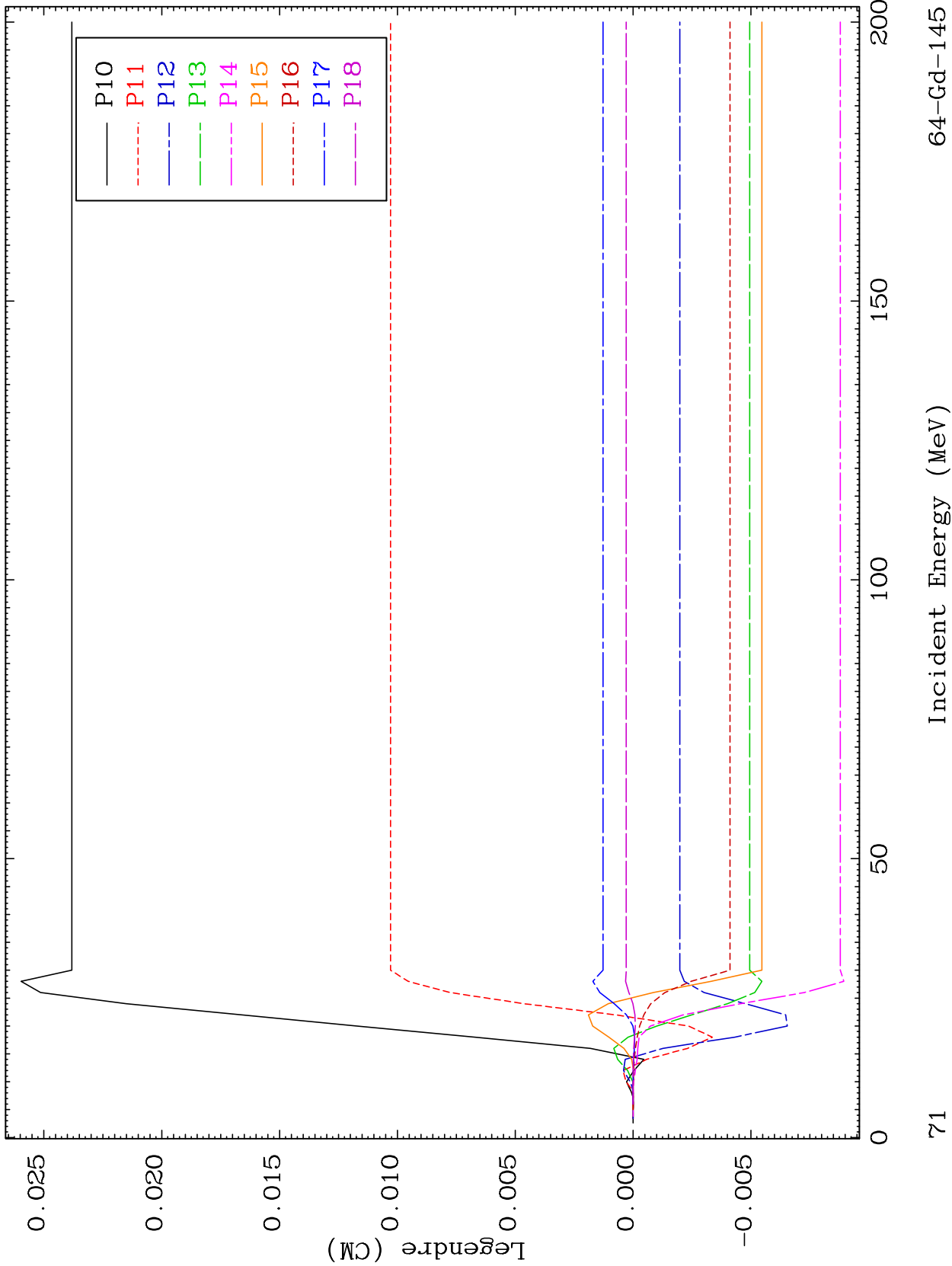
Incident Energy (MeV)

70

MAT 6404

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

64-Gd-145



71

Incident Energy (MeV)

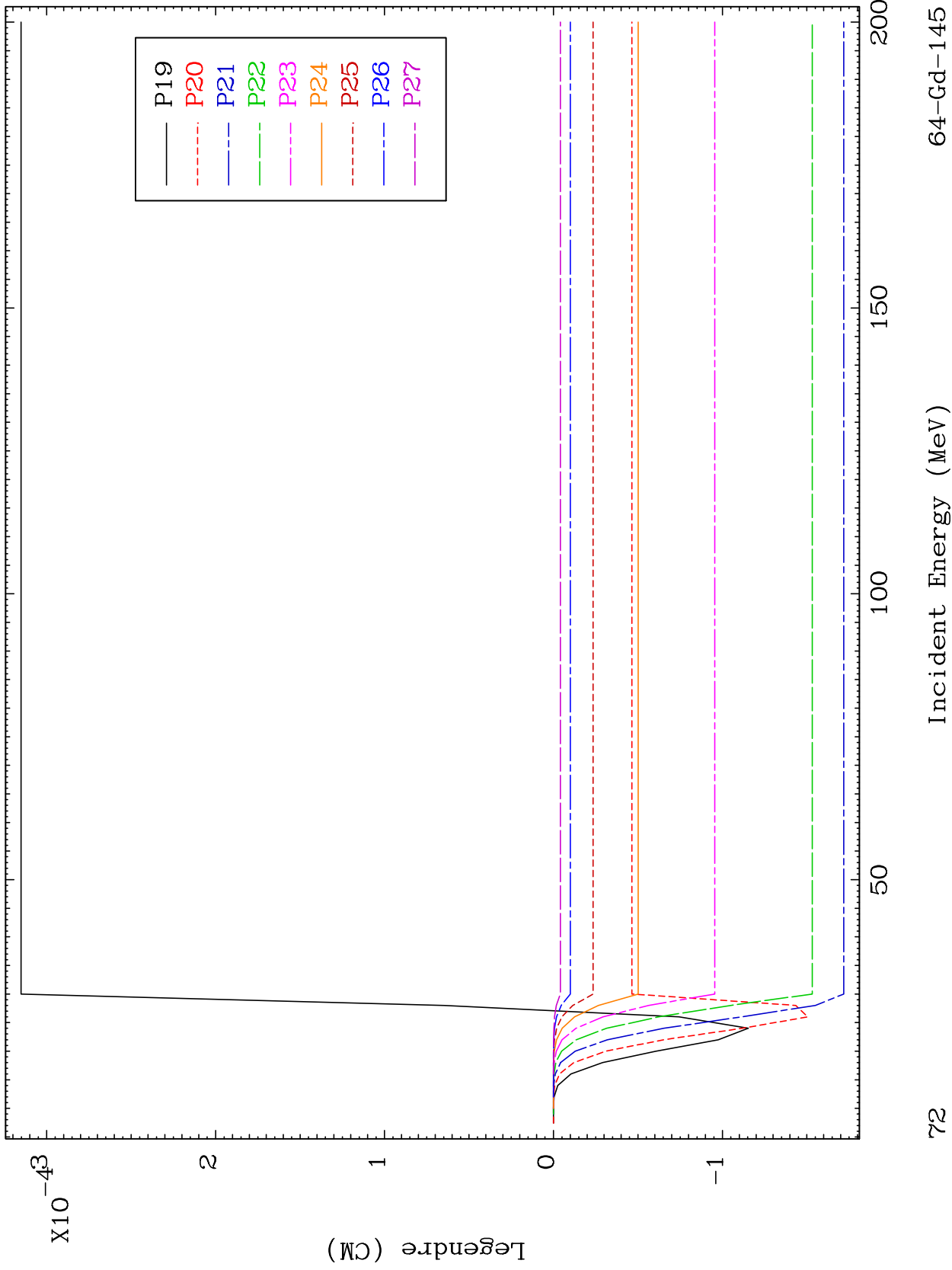
64-Gd-145

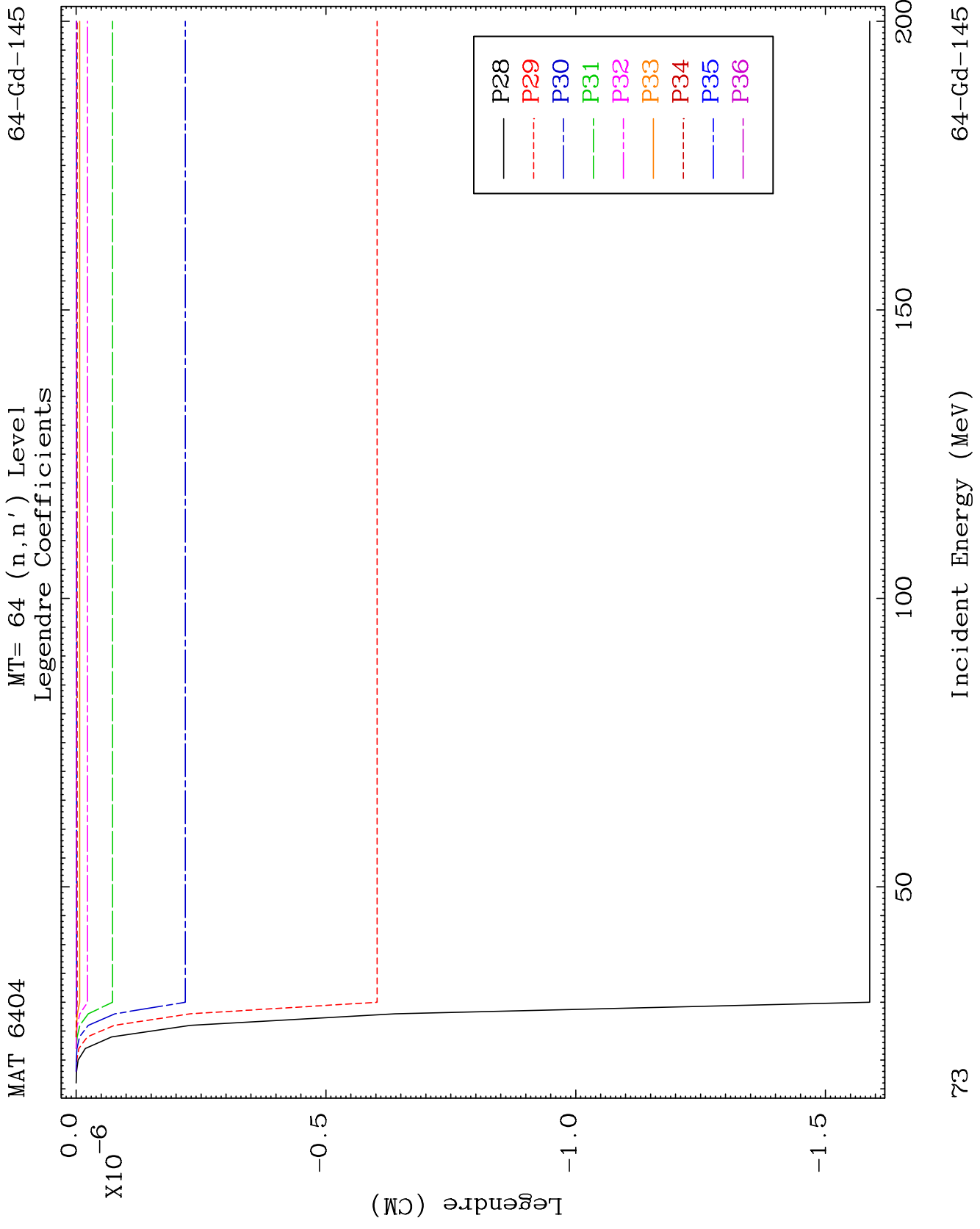


MAT 6404

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

64-Gd-145

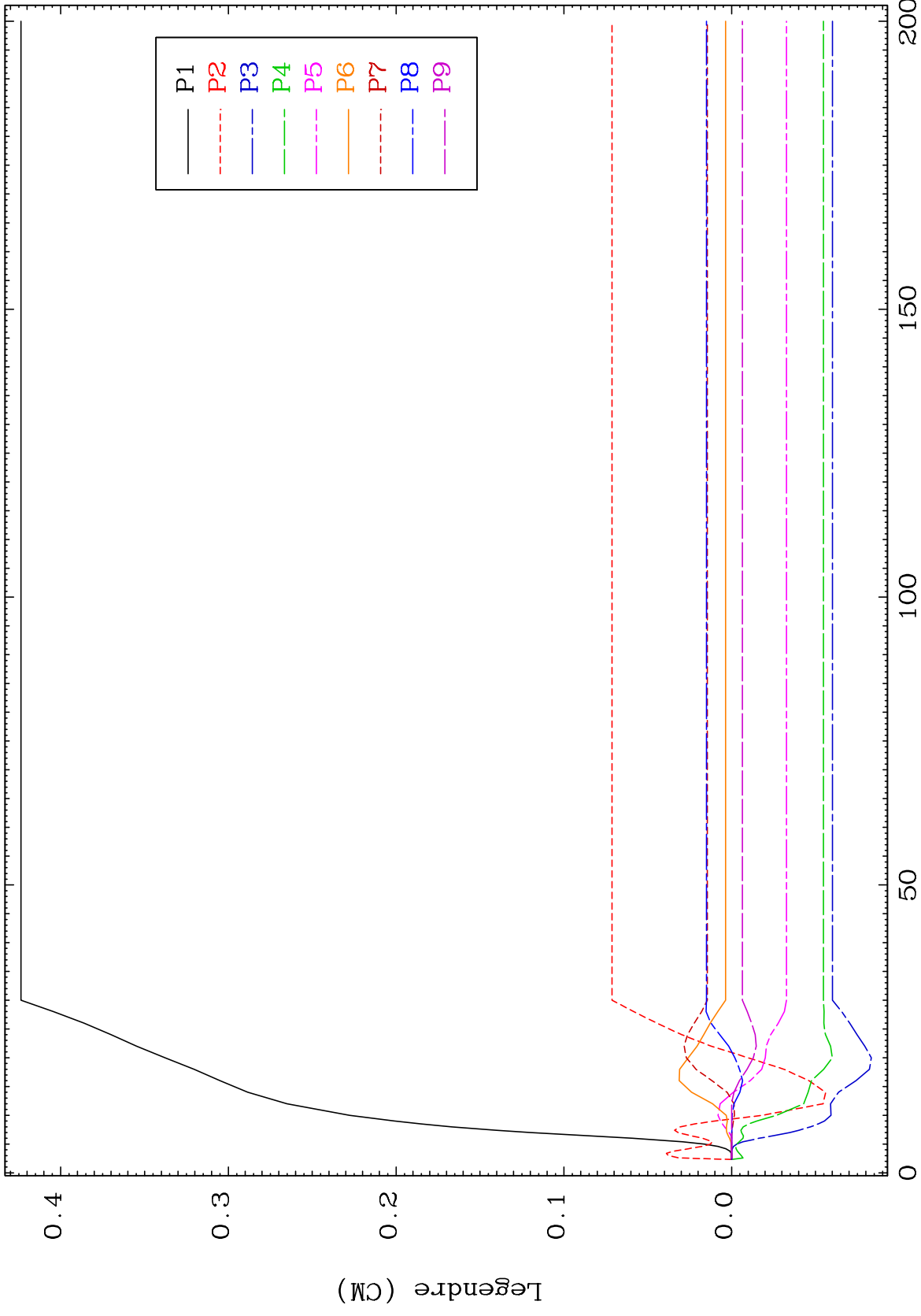




MAT 6404

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

64-Gd-145



74

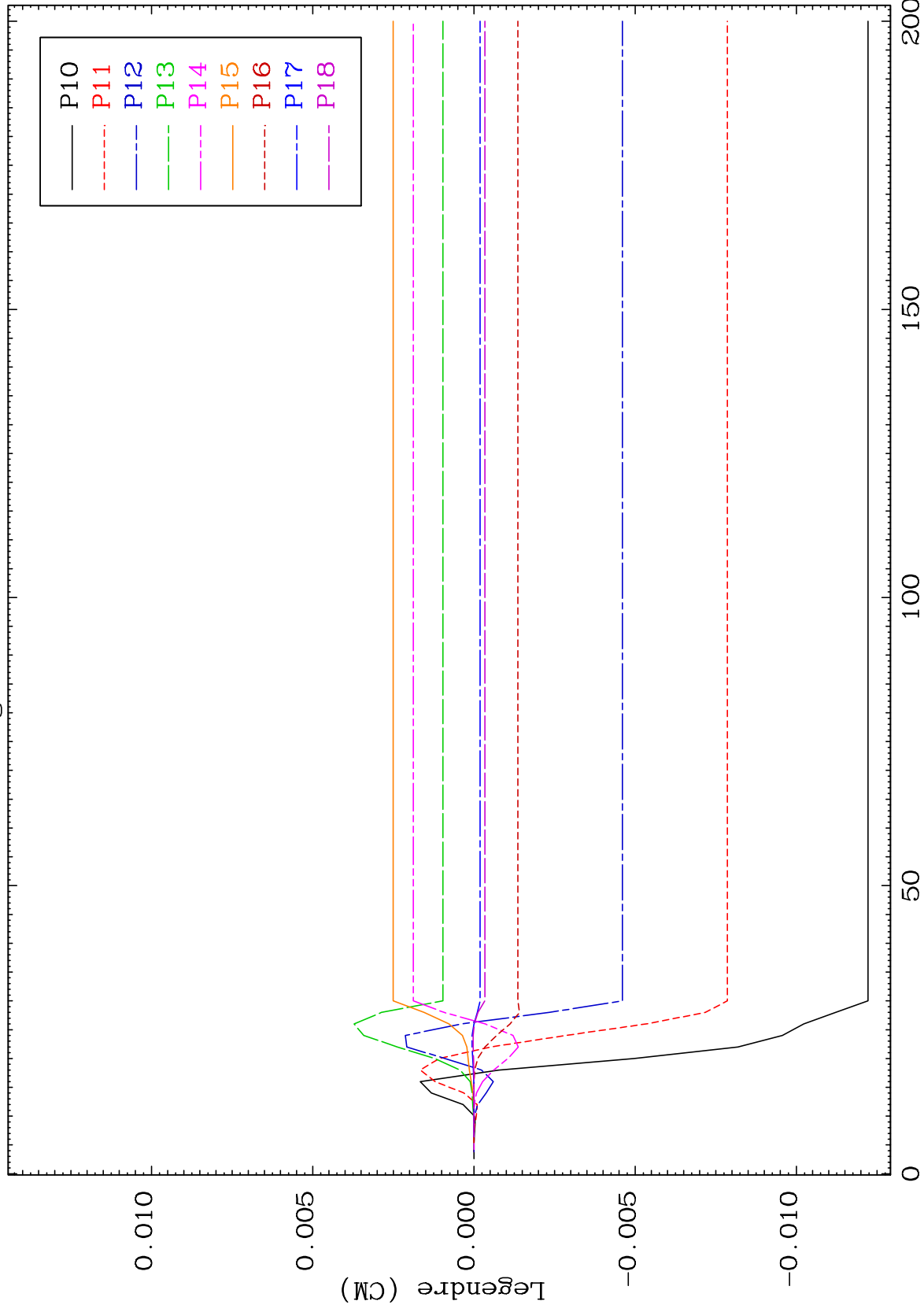
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



75

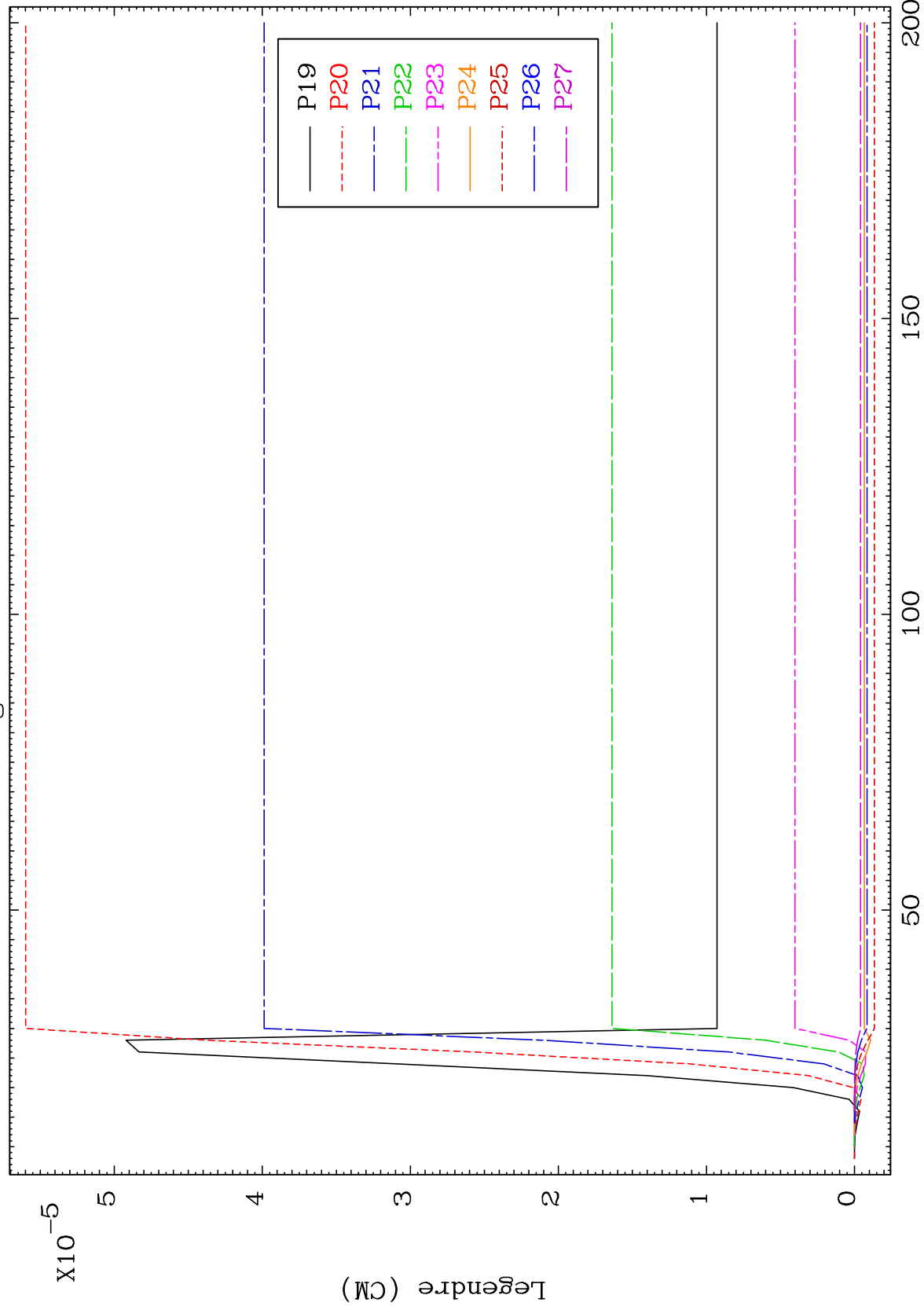
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

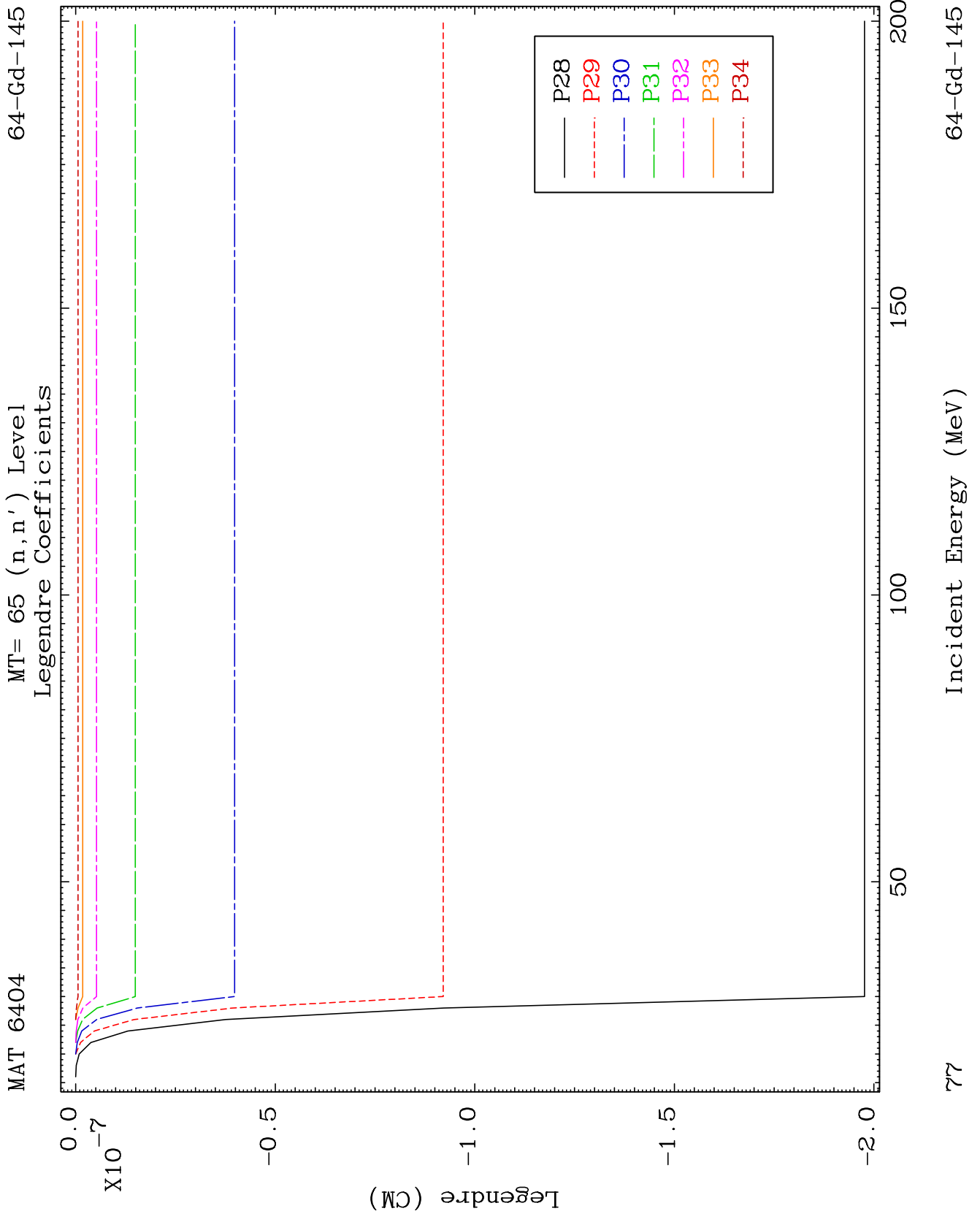
64-Gd-145



64-Gd-145

Incident Energy (MeV)

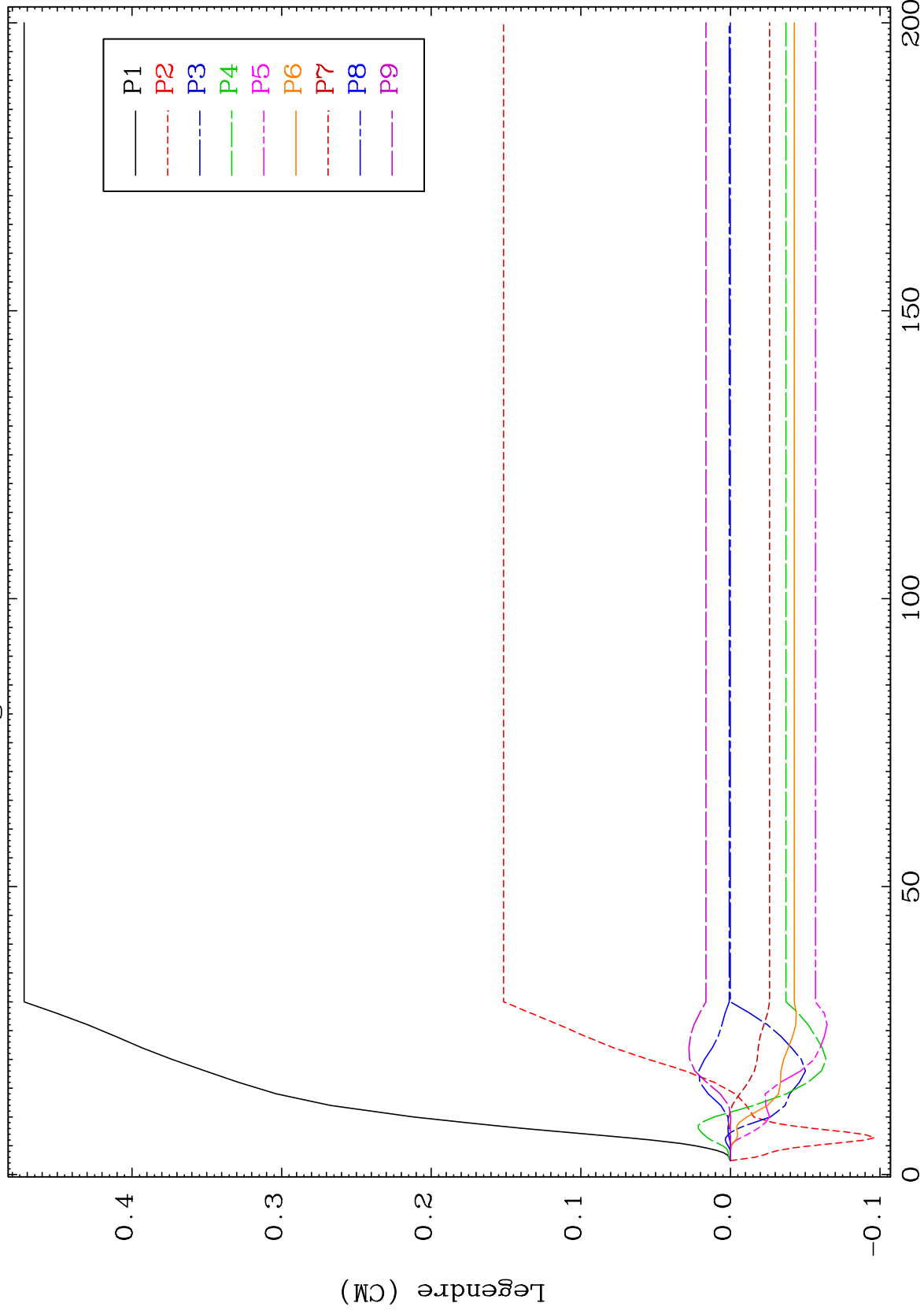
76



MAT 6404

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

64-Gd-145



78

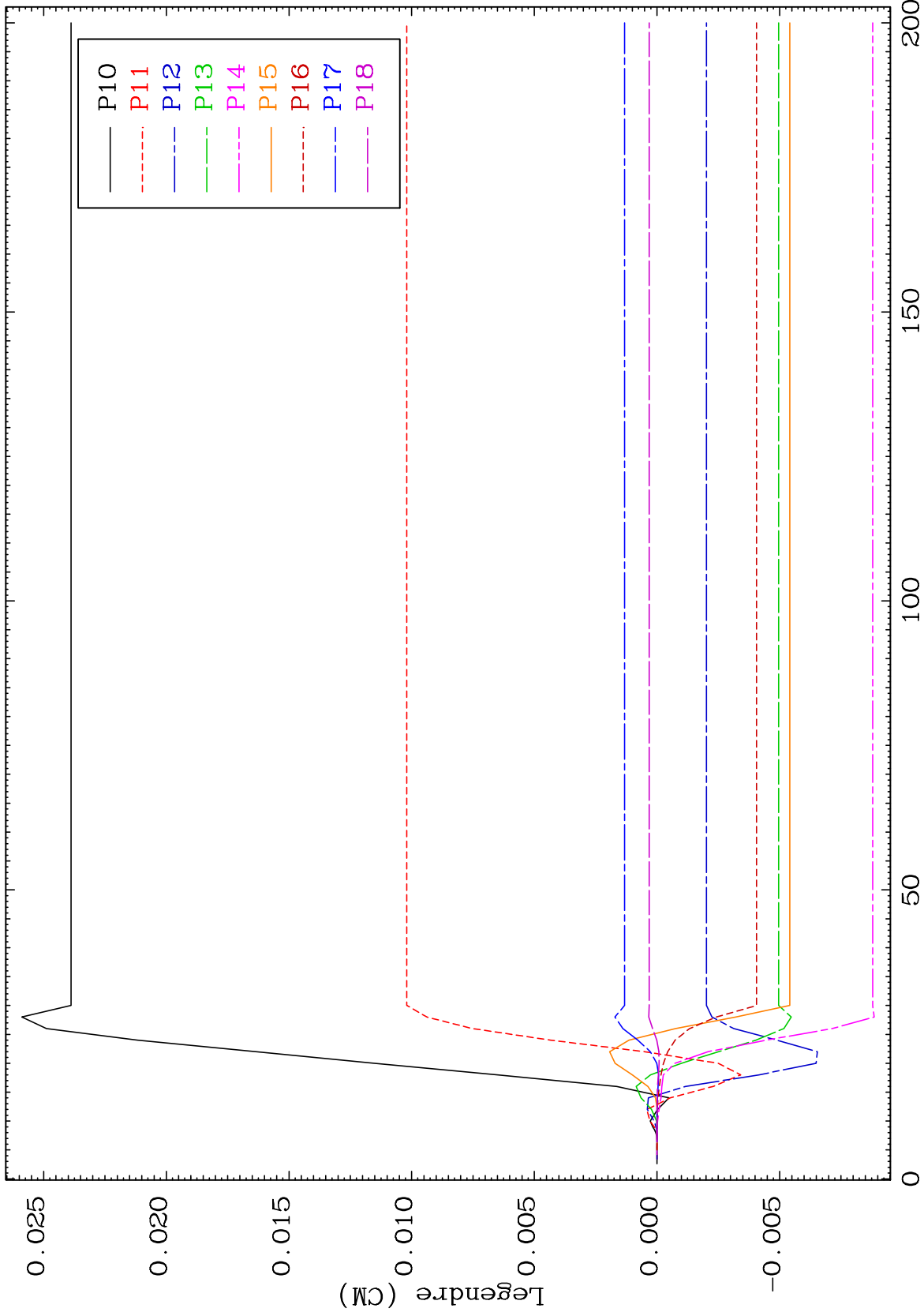
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



79

Incident Energy (MeV)

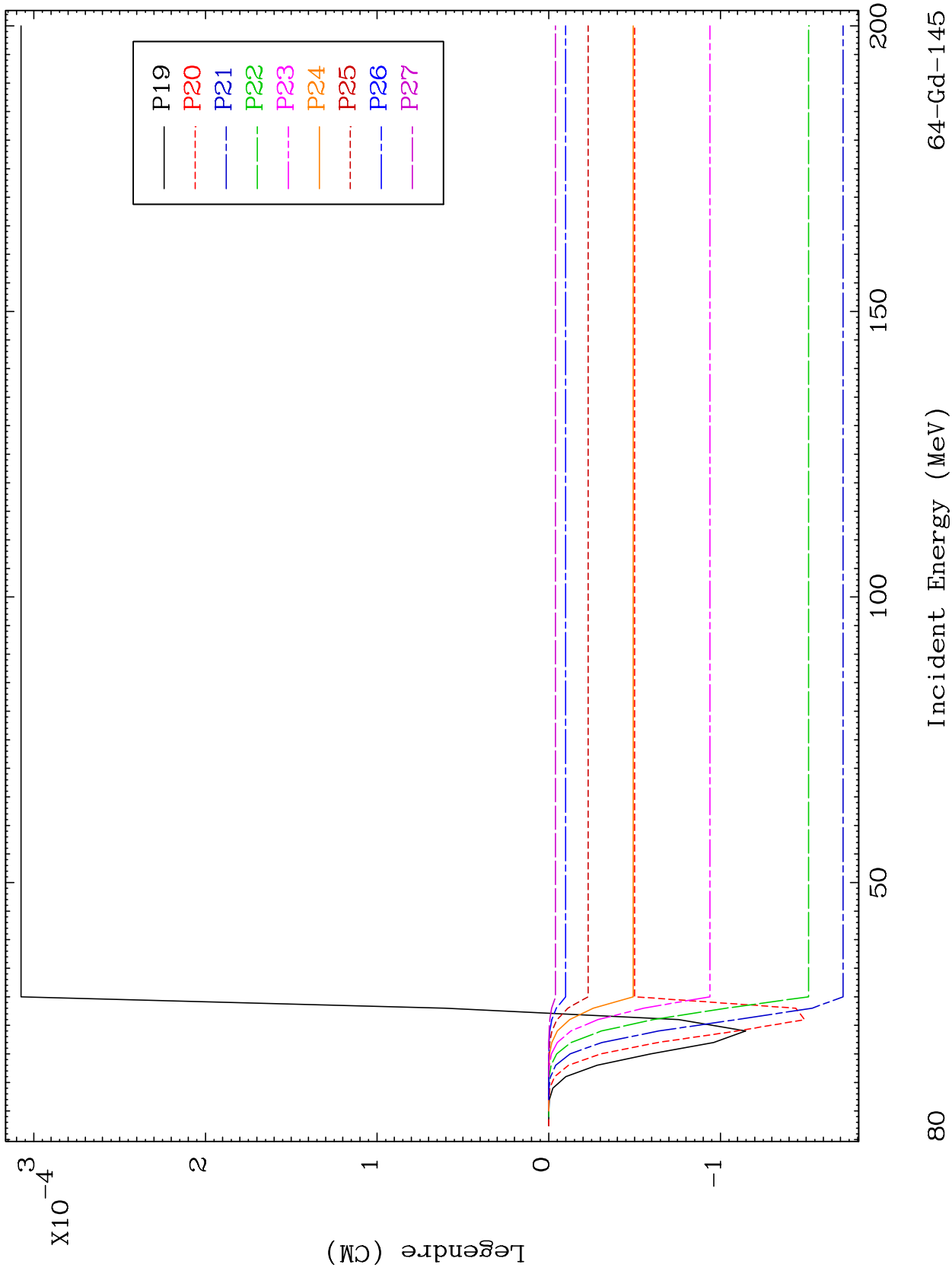
64-Gd-145



MAT 6404

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

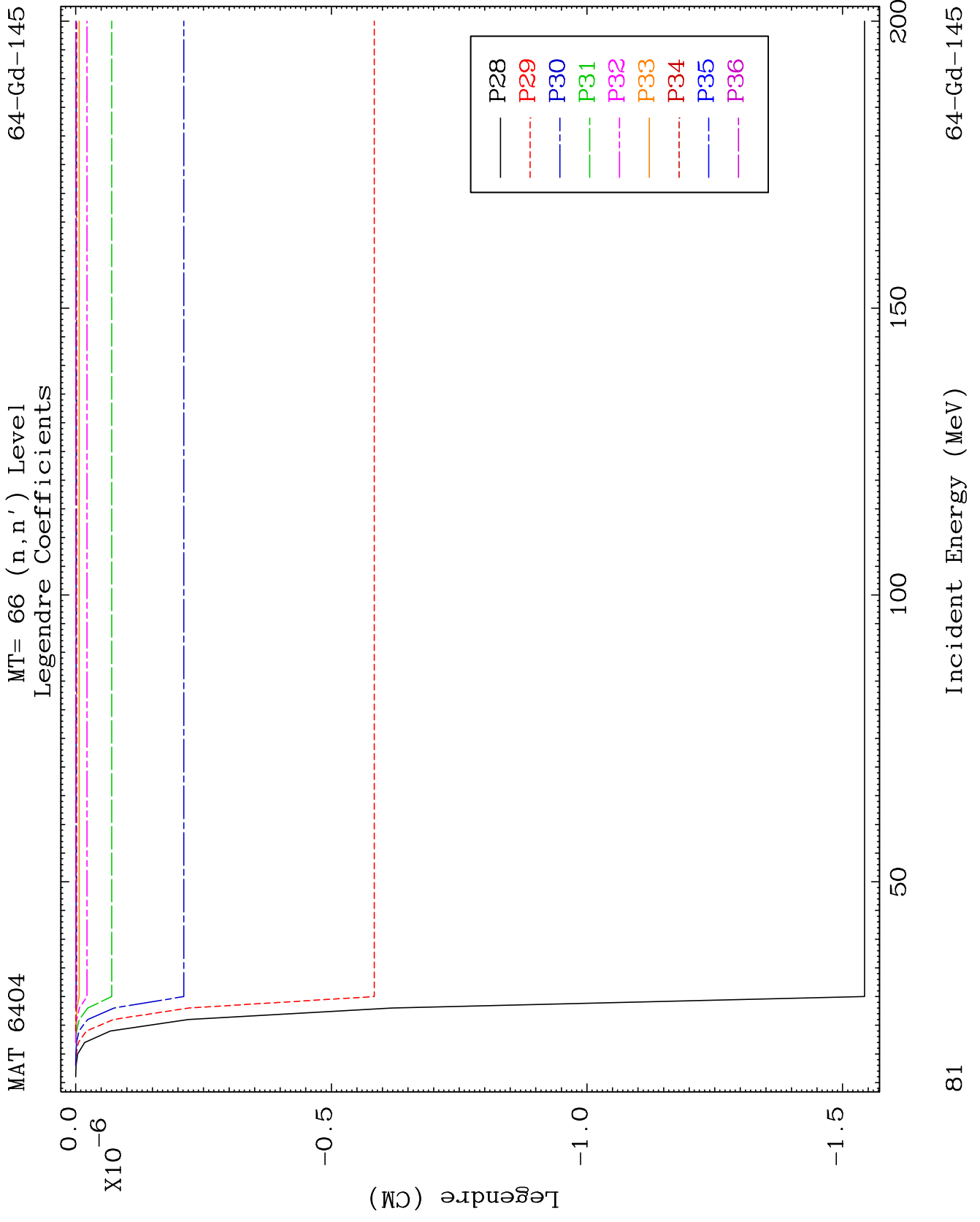
64-Gd-145



80

Incident Energy (MeV)

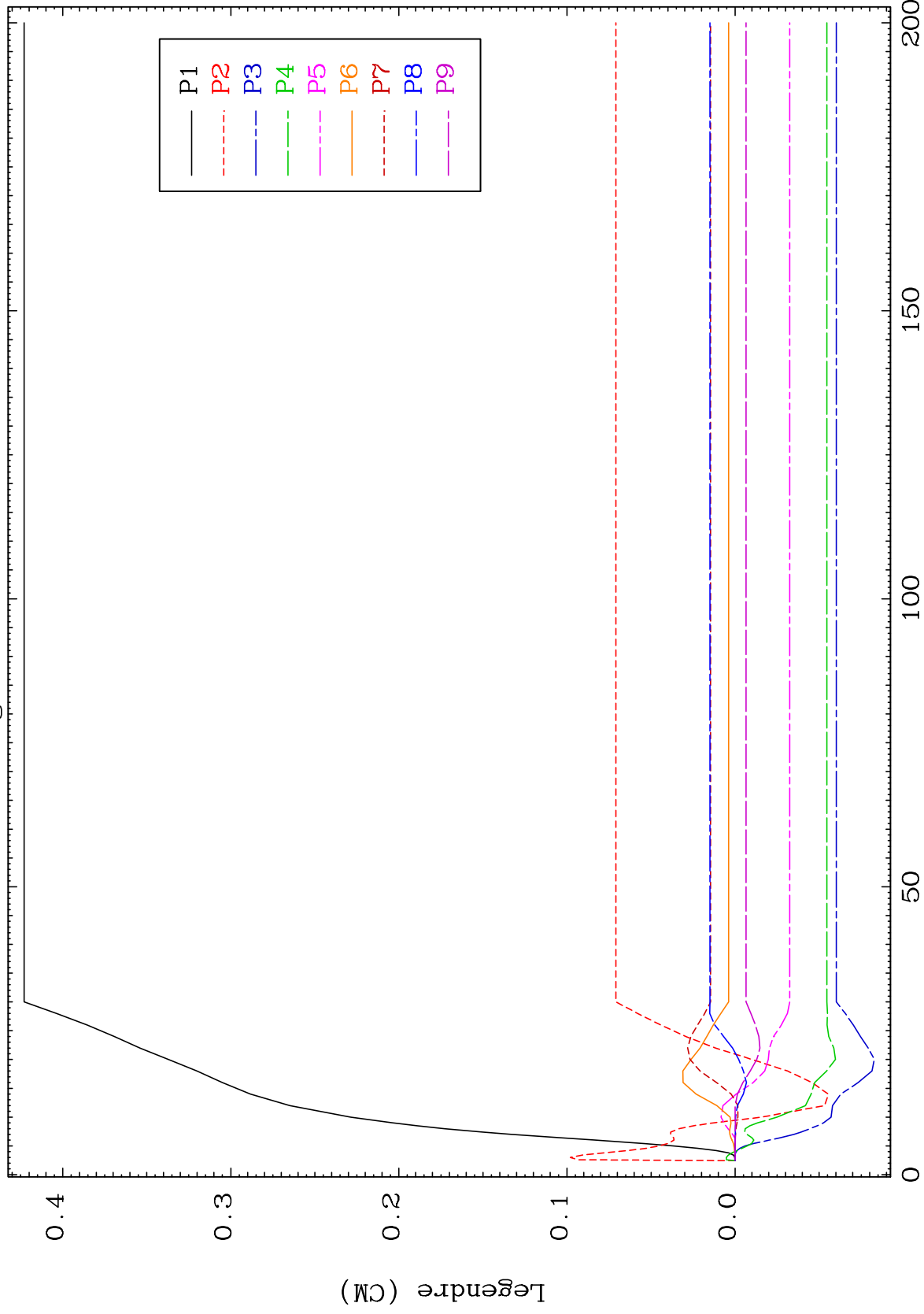
64-Gd-145



MAT 6404

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

64-Gd-145



82

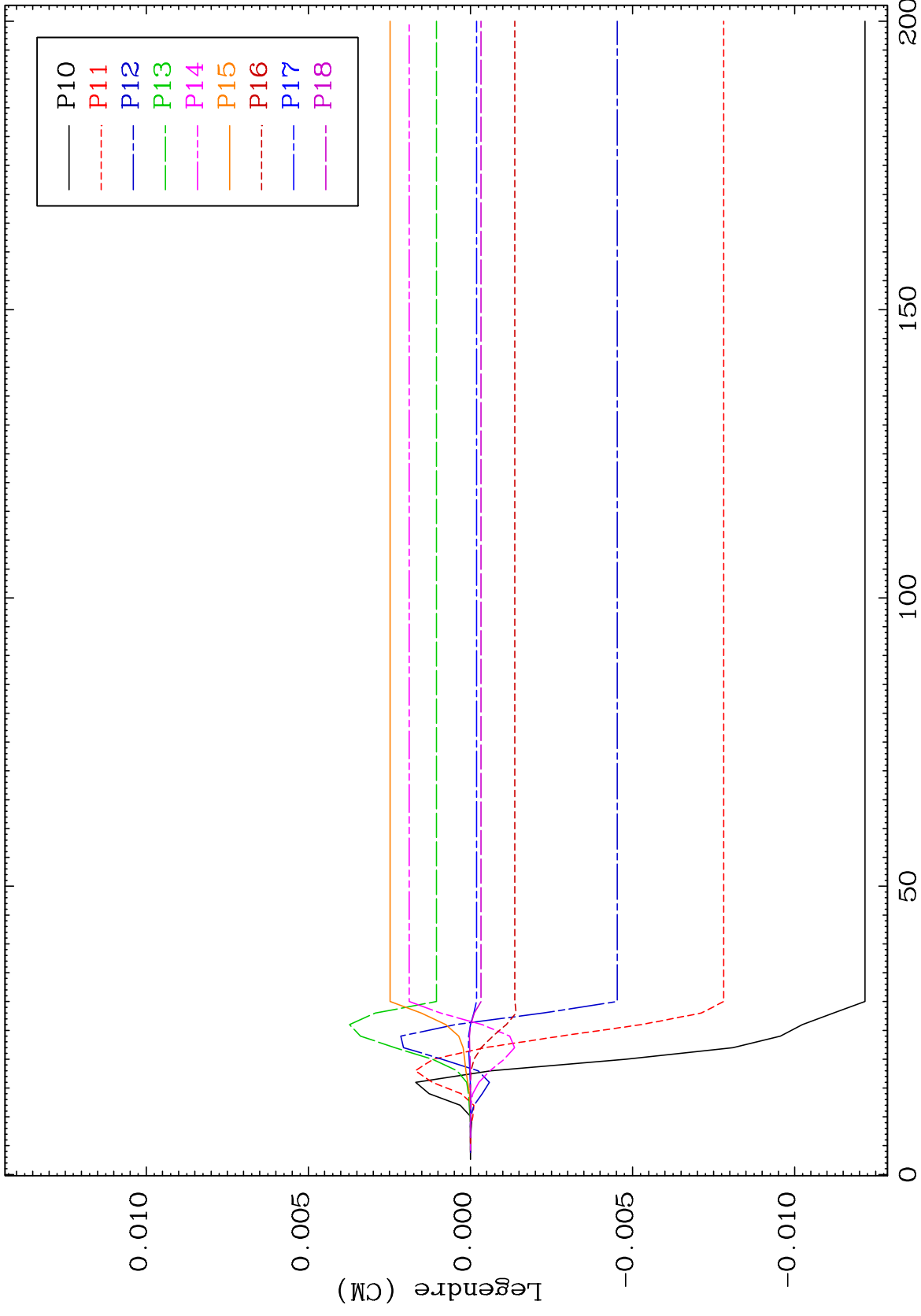
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



83

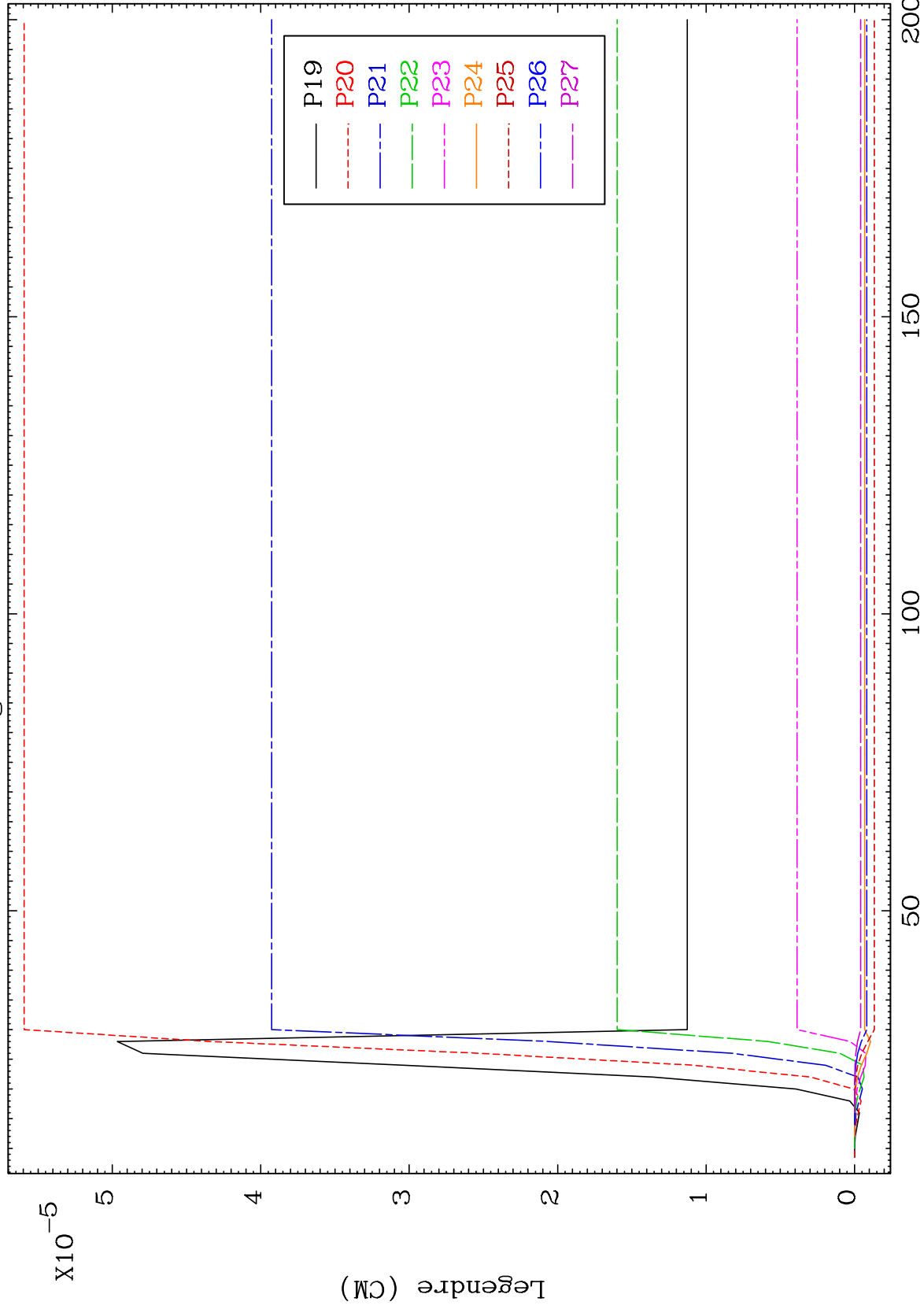
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

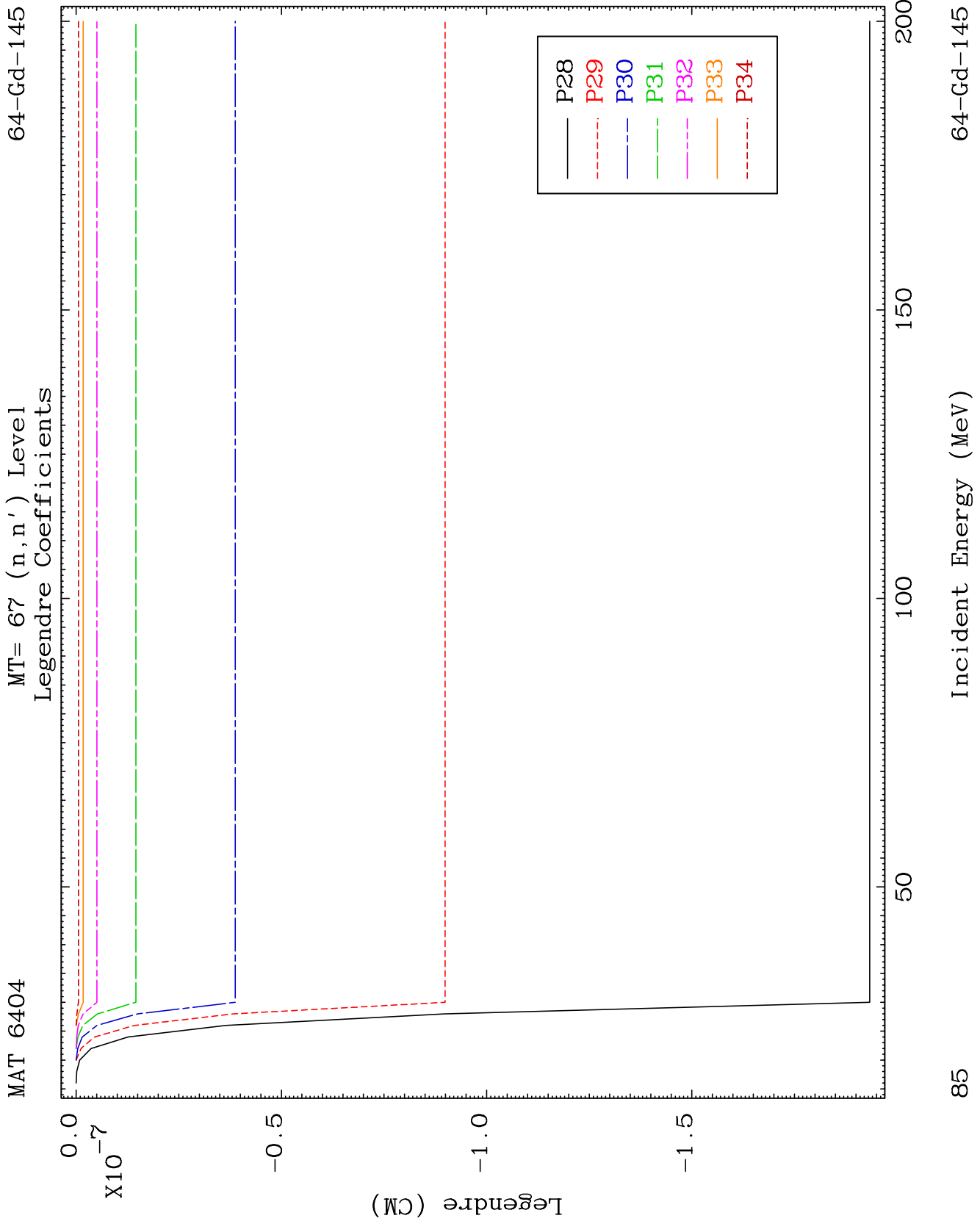
64-Gd-145



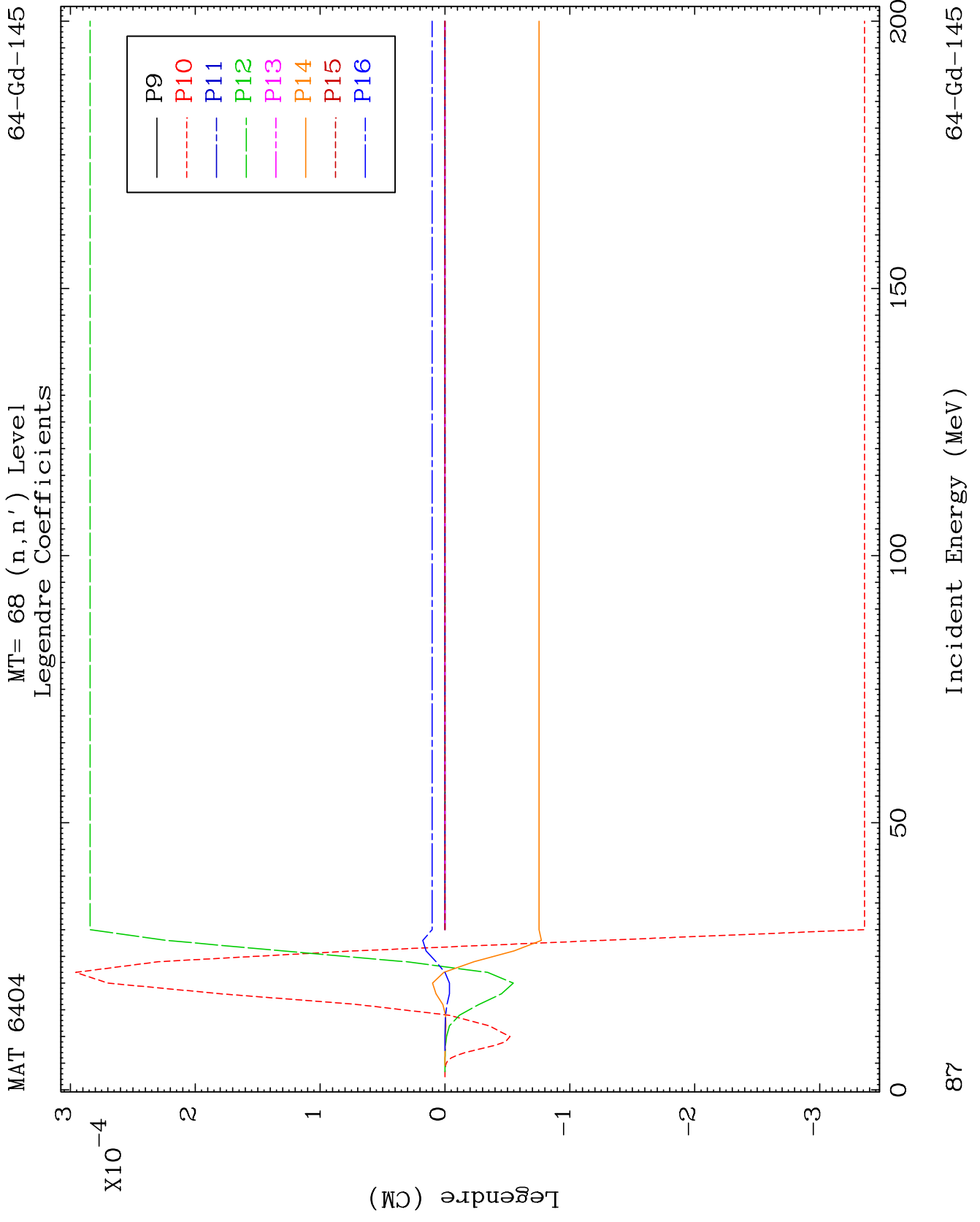
84

Incident Energy (MeV)

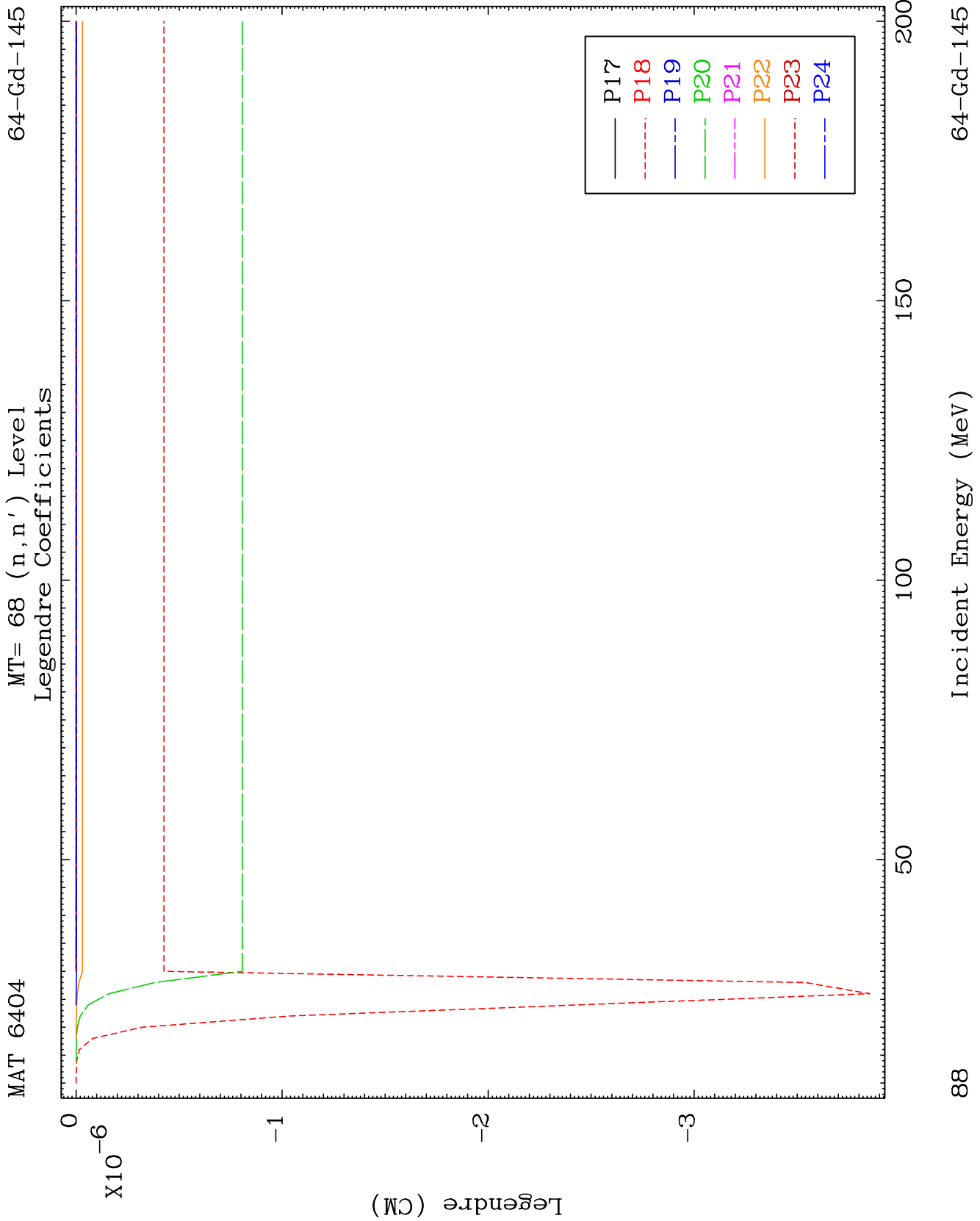
64-Gd-145







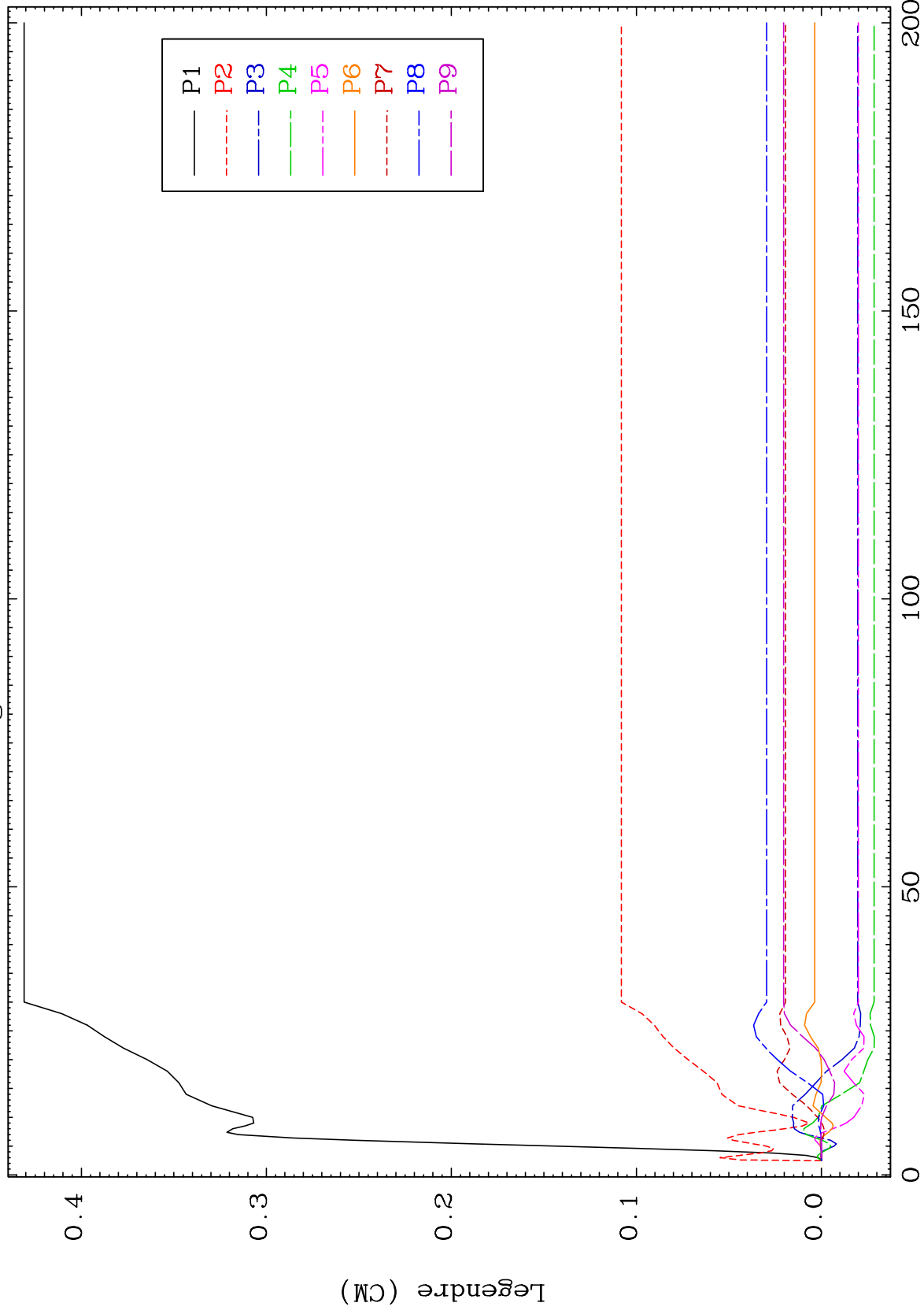




MAT 6404

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

64-Gd-145



89

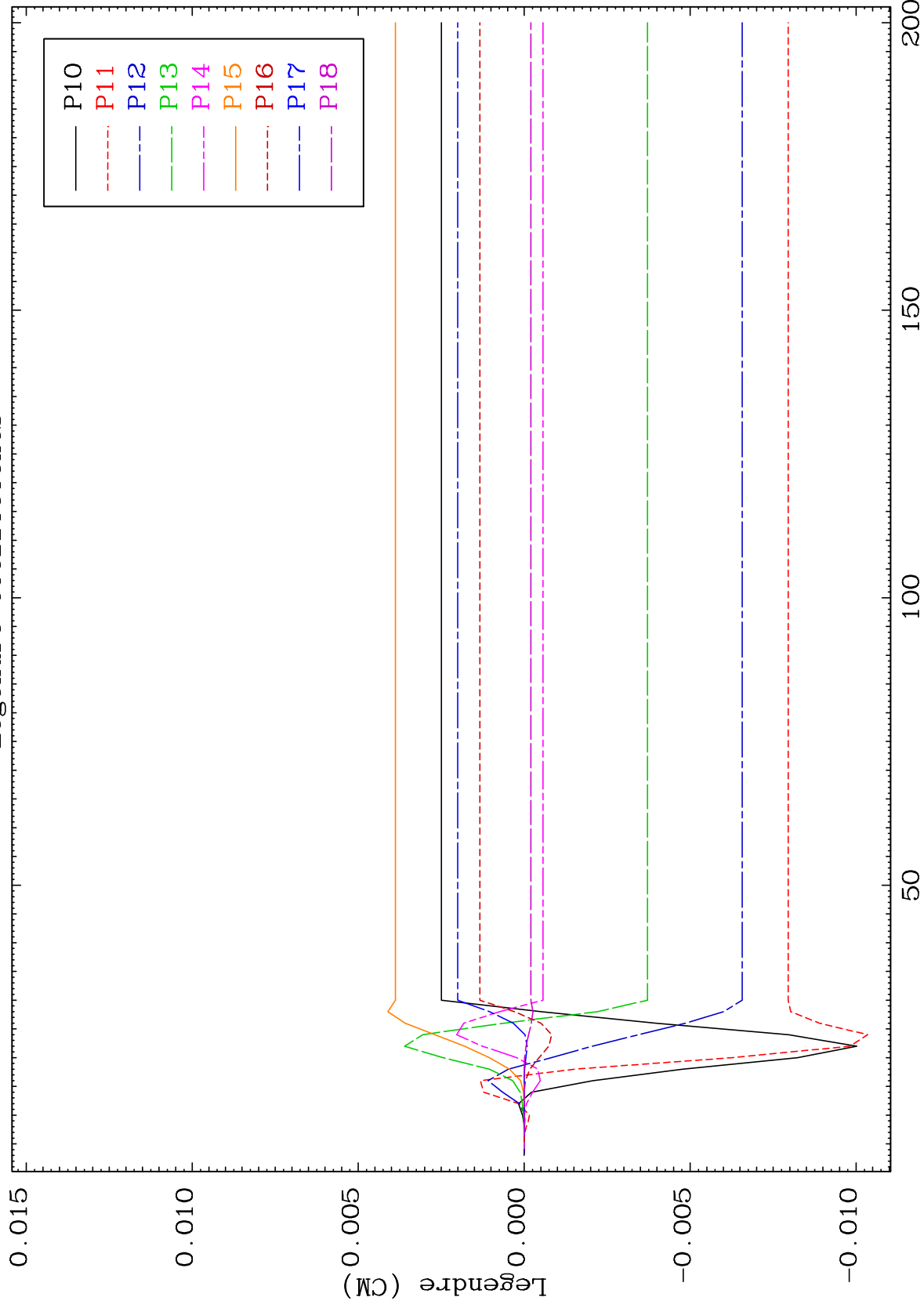
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

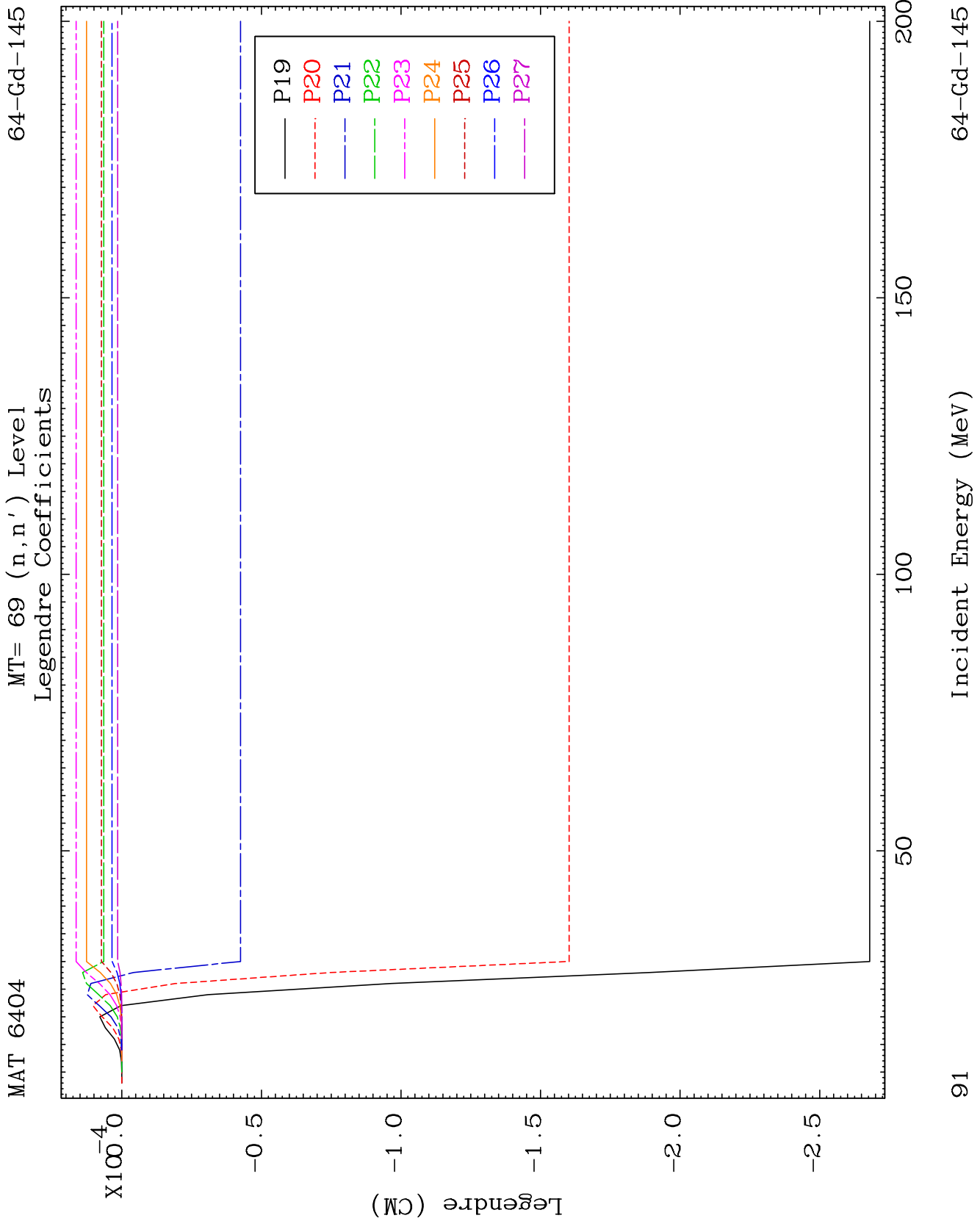
64-Gd-145



90

Incident Energy (MeV)

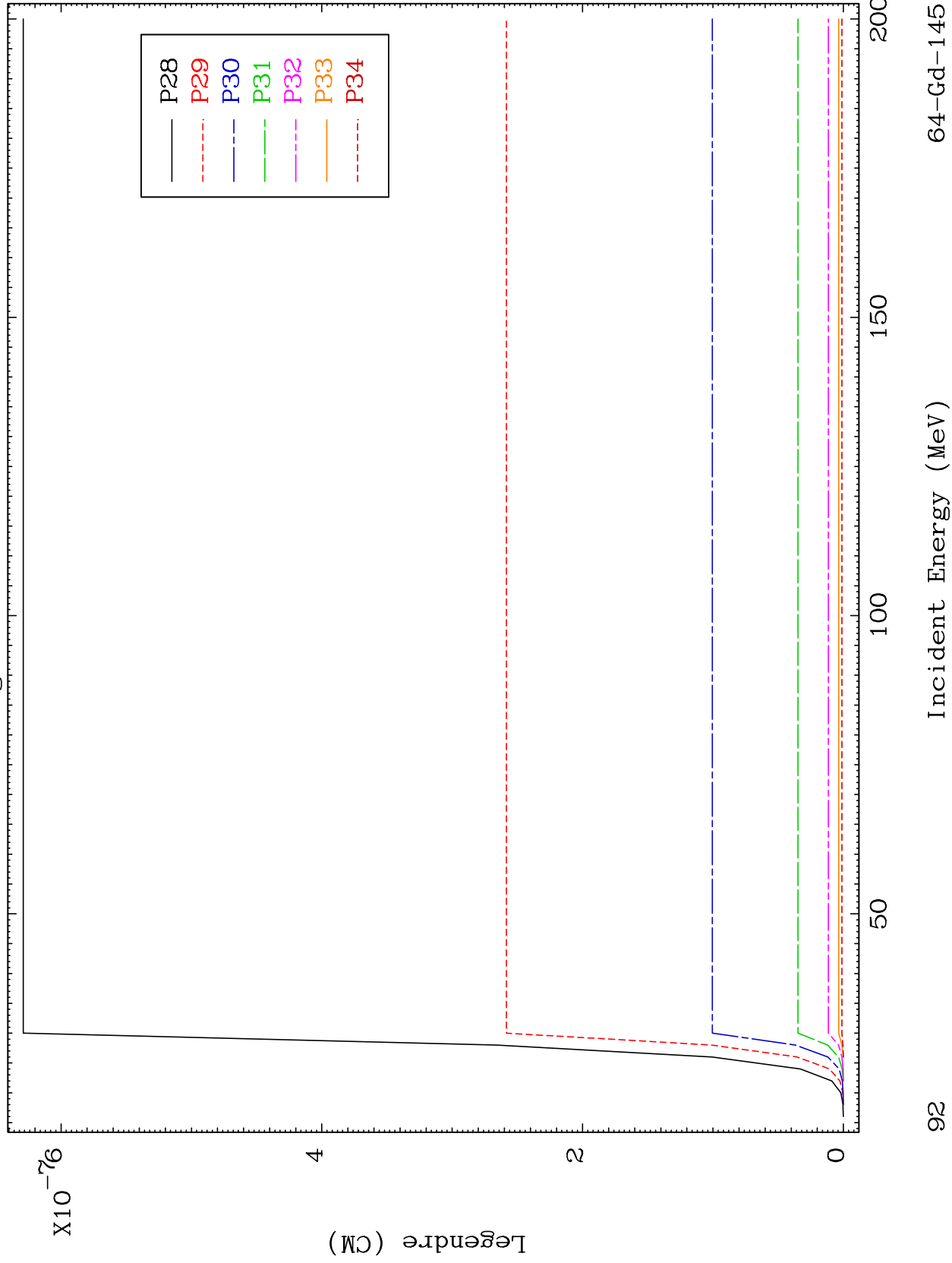
64-Gd-145

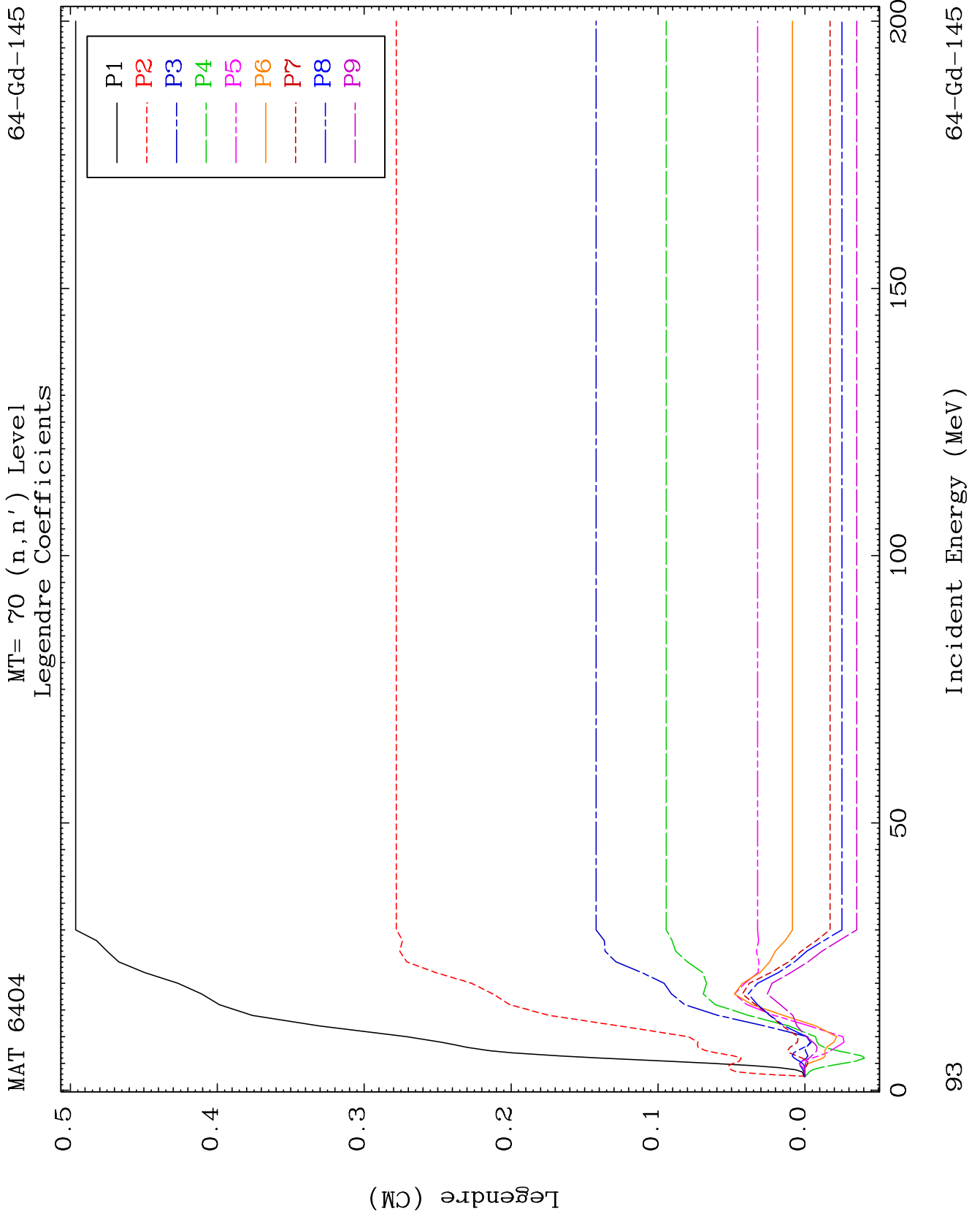


MAT 6404

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

64-Gd-145

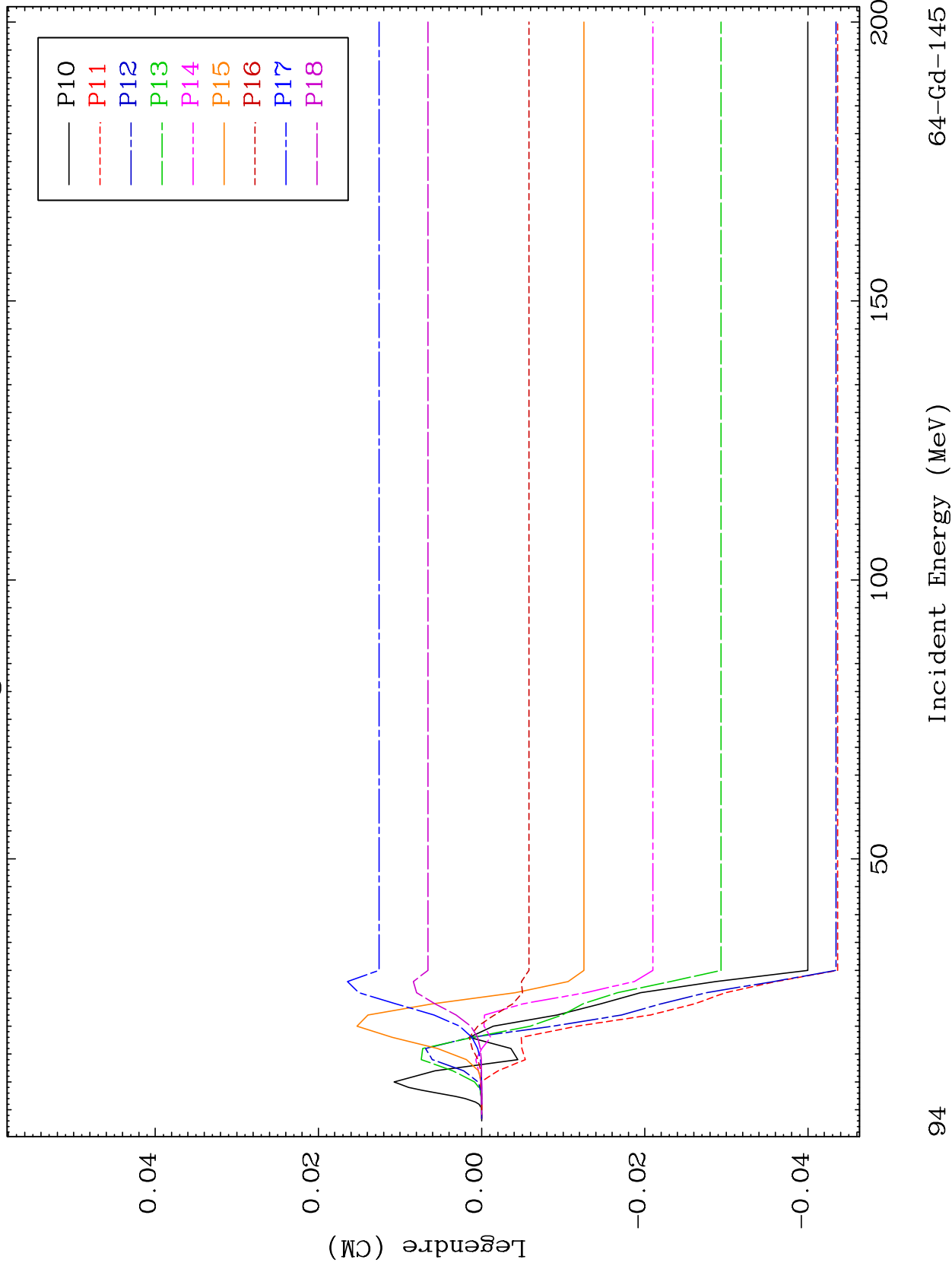




MAT 6404

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

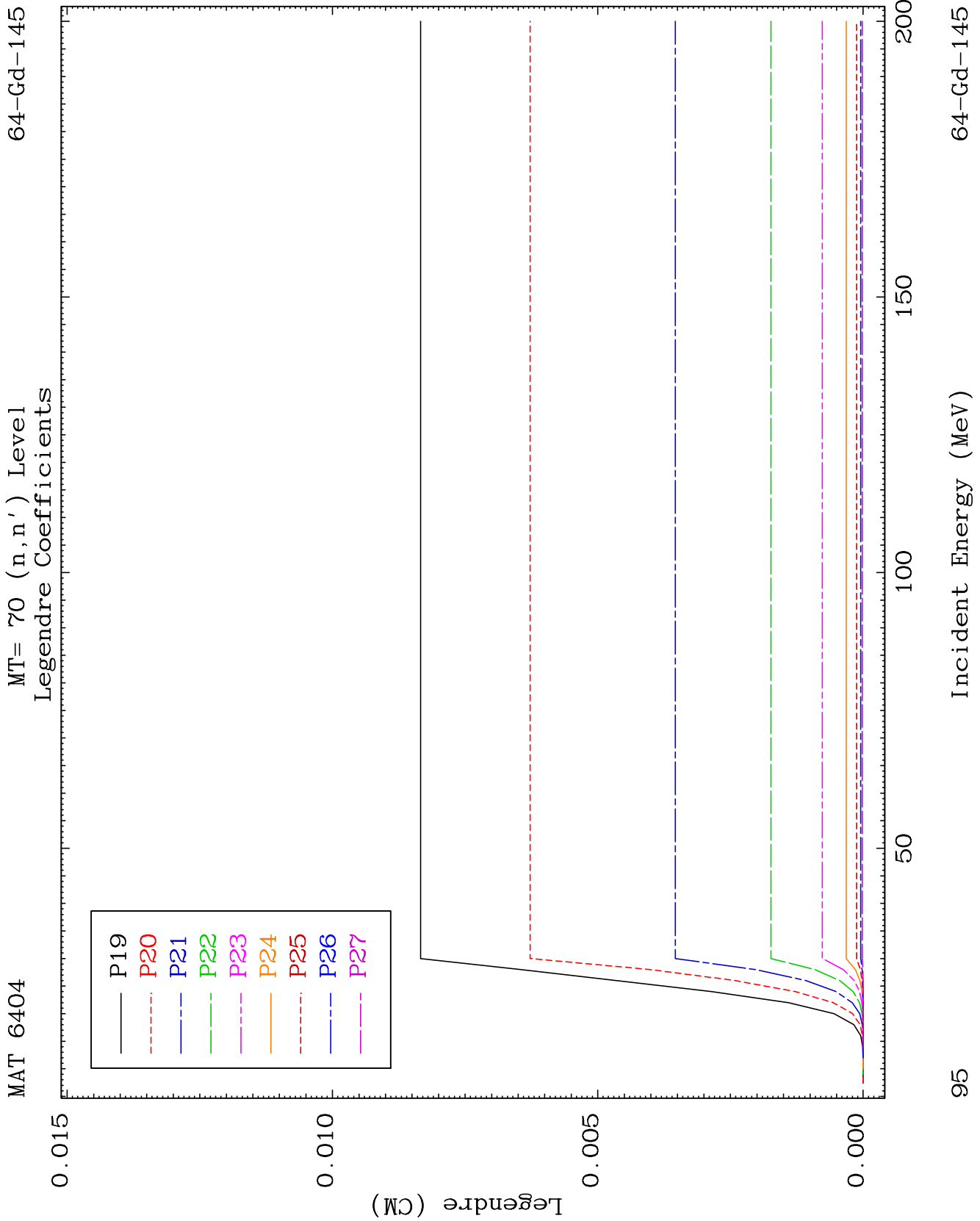
64-Gd-145



94

Incident Energy (MeV)

64-Gd-145

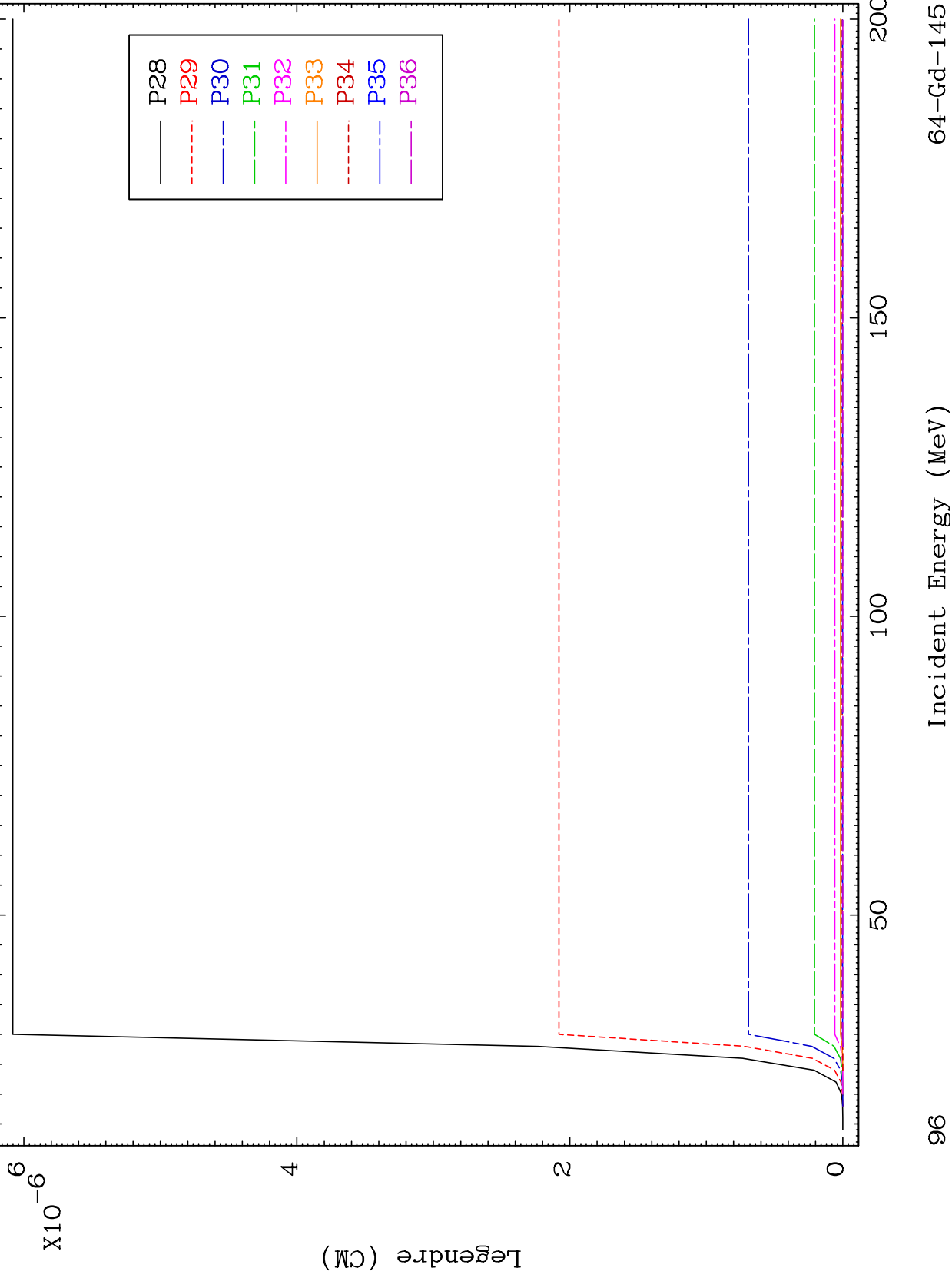




MAT 6404

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

64-Gd-145

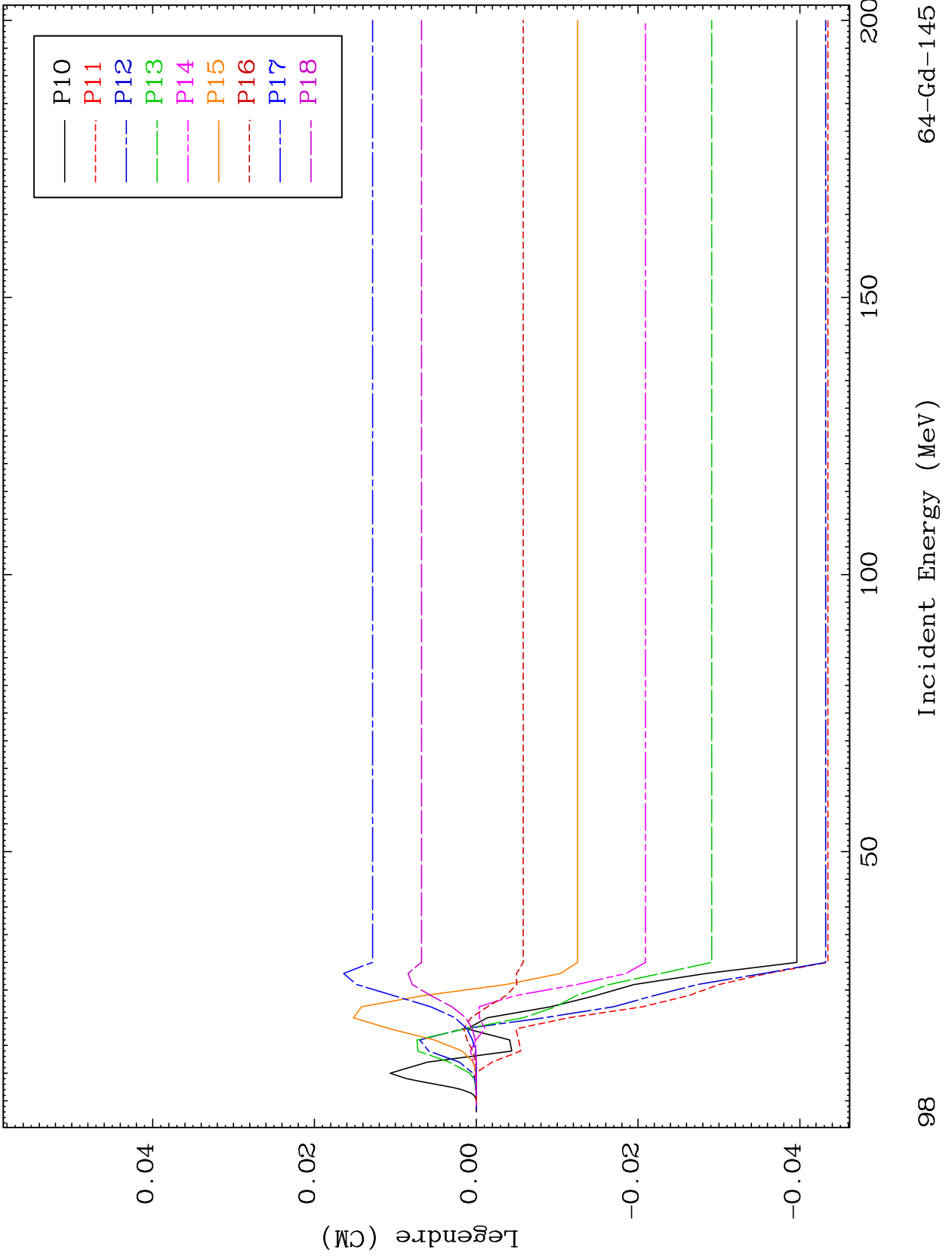




MAT 6404

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

64-Gd-145



98

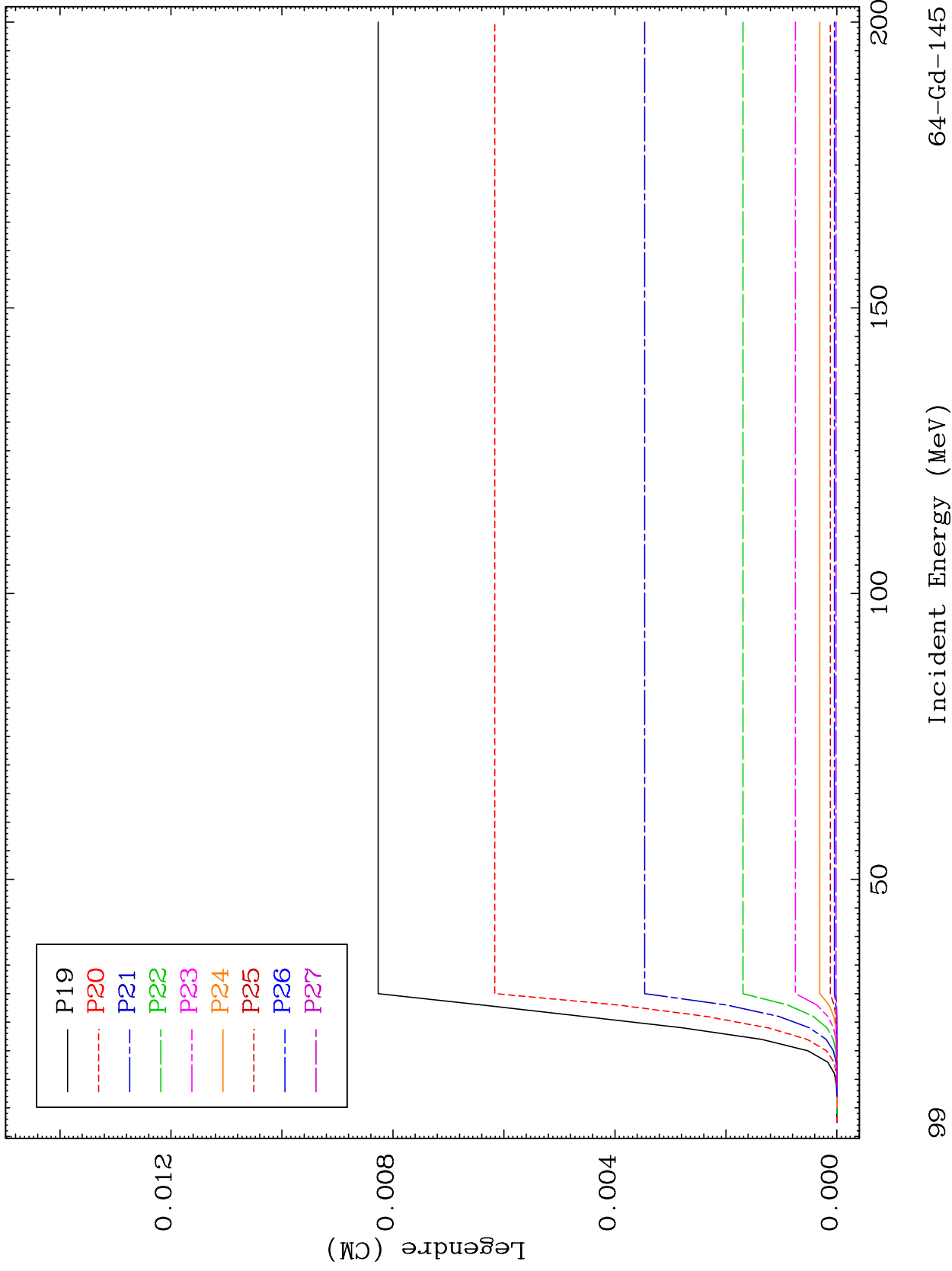
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145

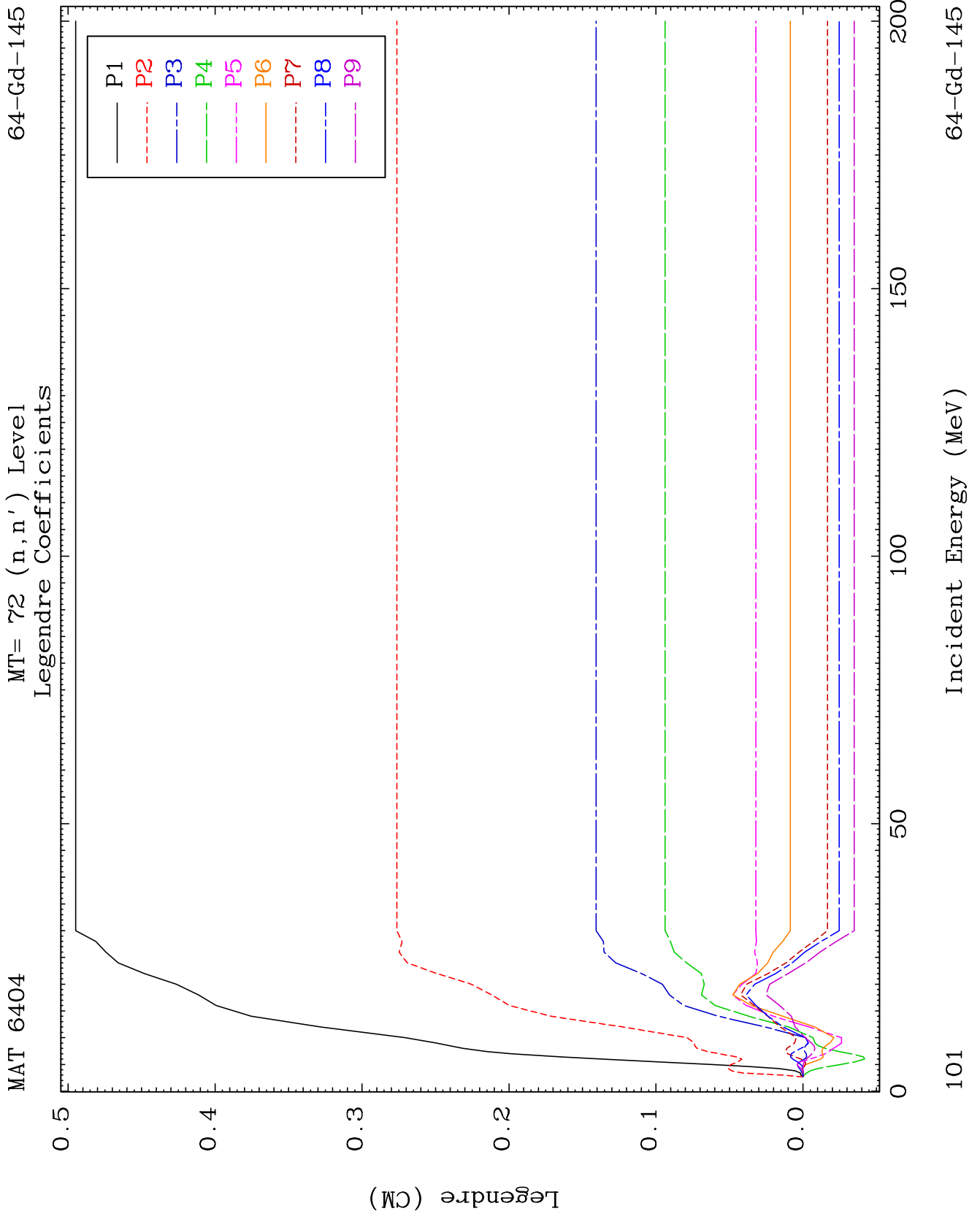


99

Incident Energy (MeV)

64-Gd-145

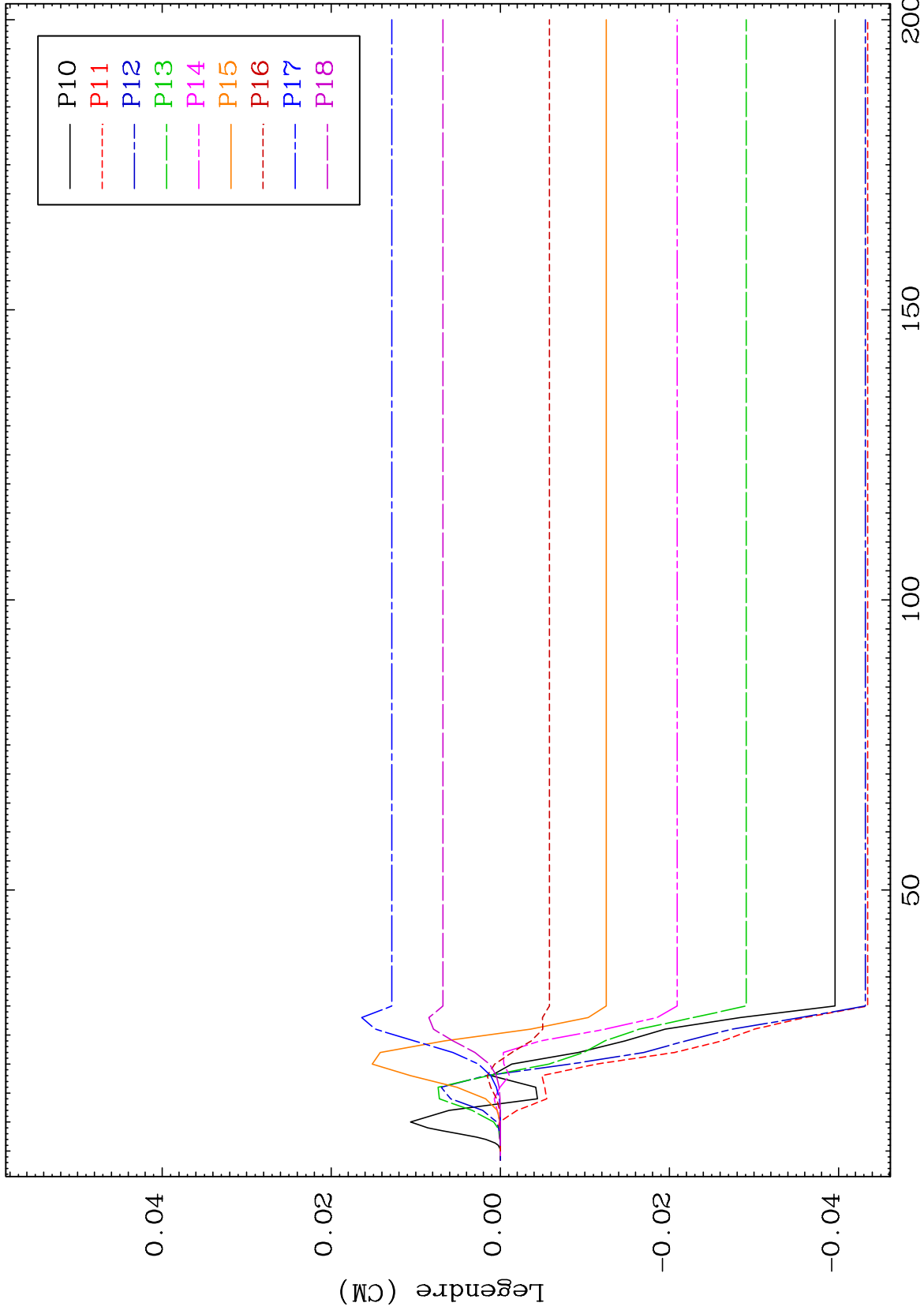




MAT 6404

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

64-Gd-145



102

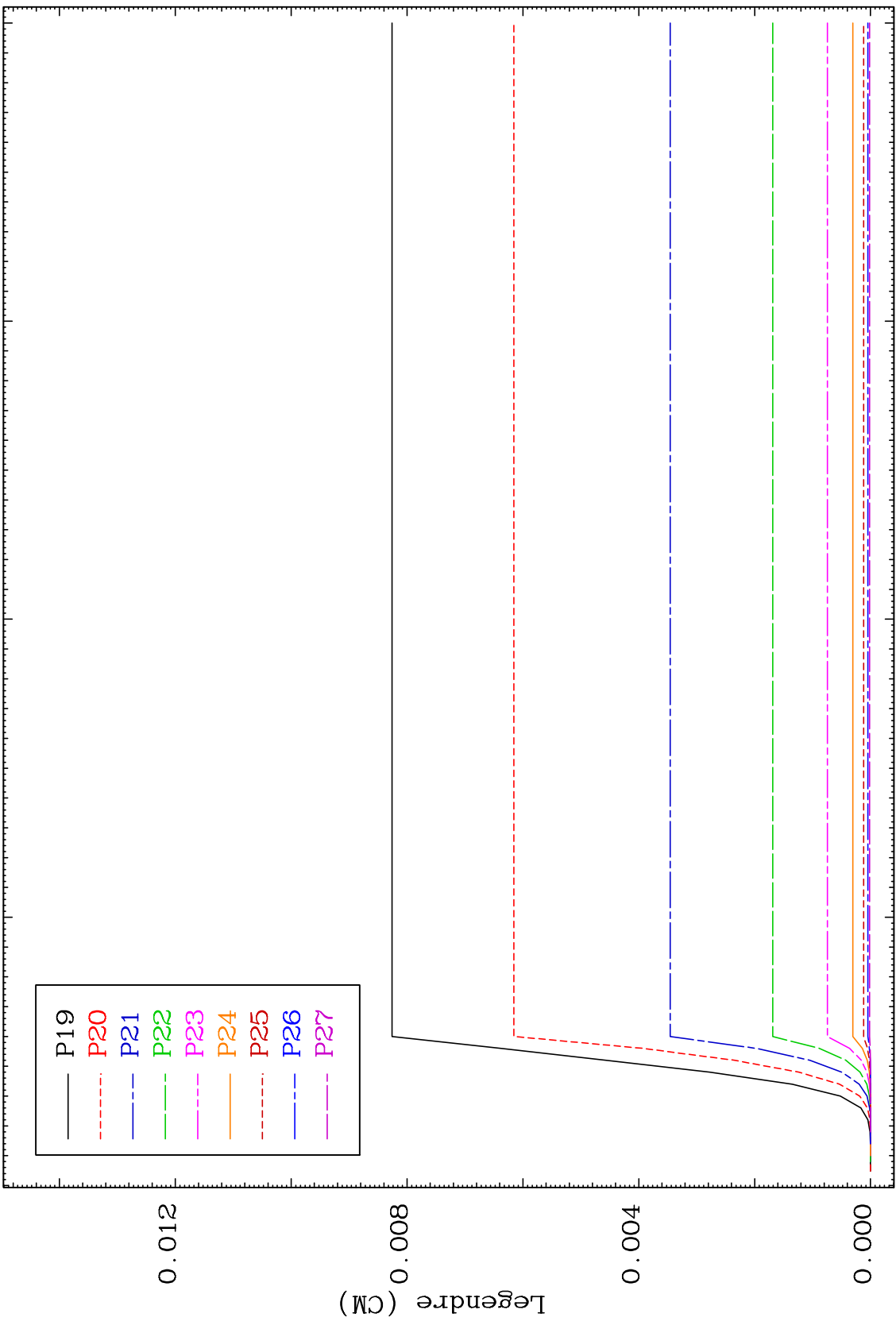
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



103

Incident Energy (MeV)

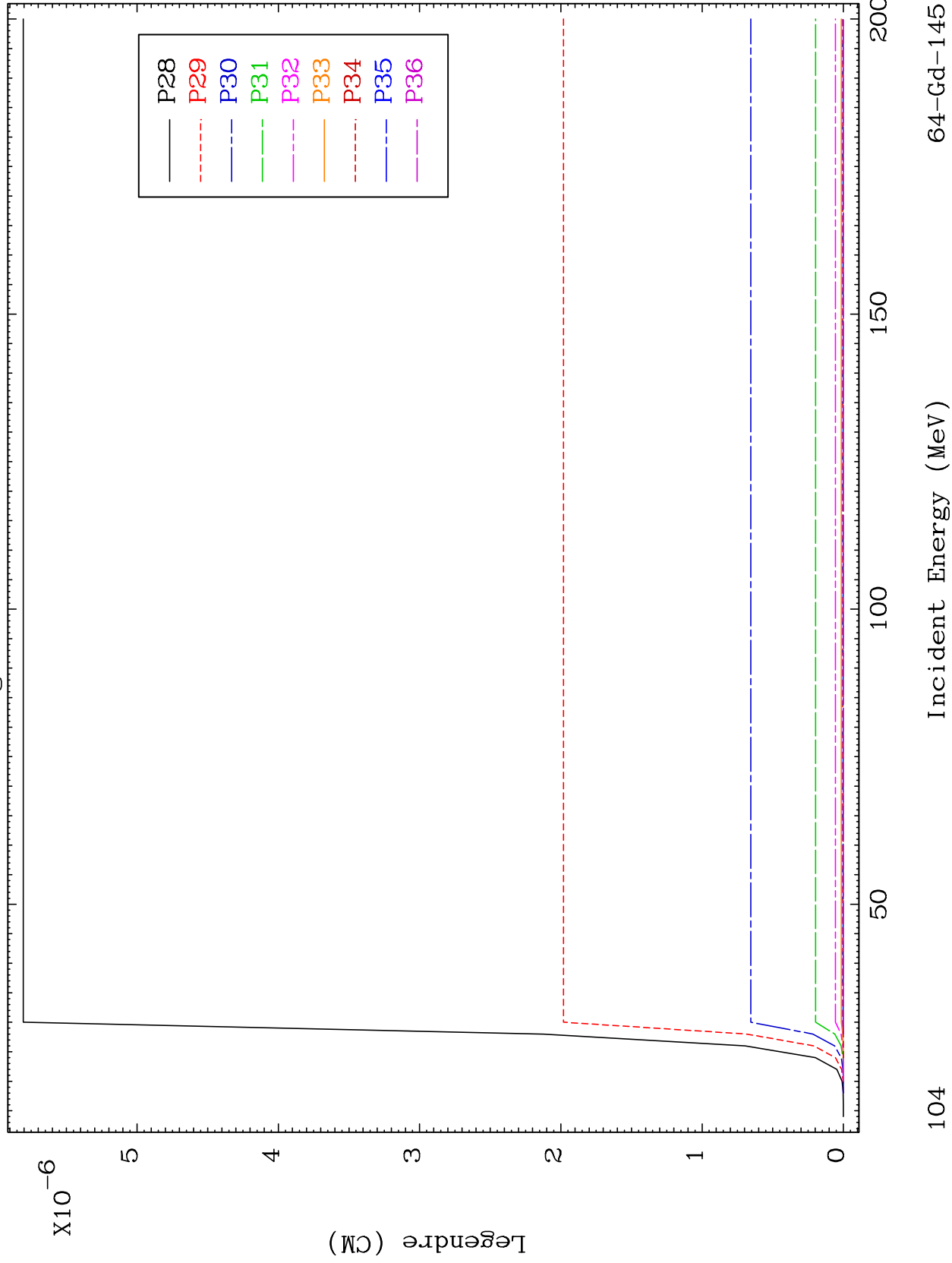
64-Gd-145



MAT 6404

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

64-Gd-145



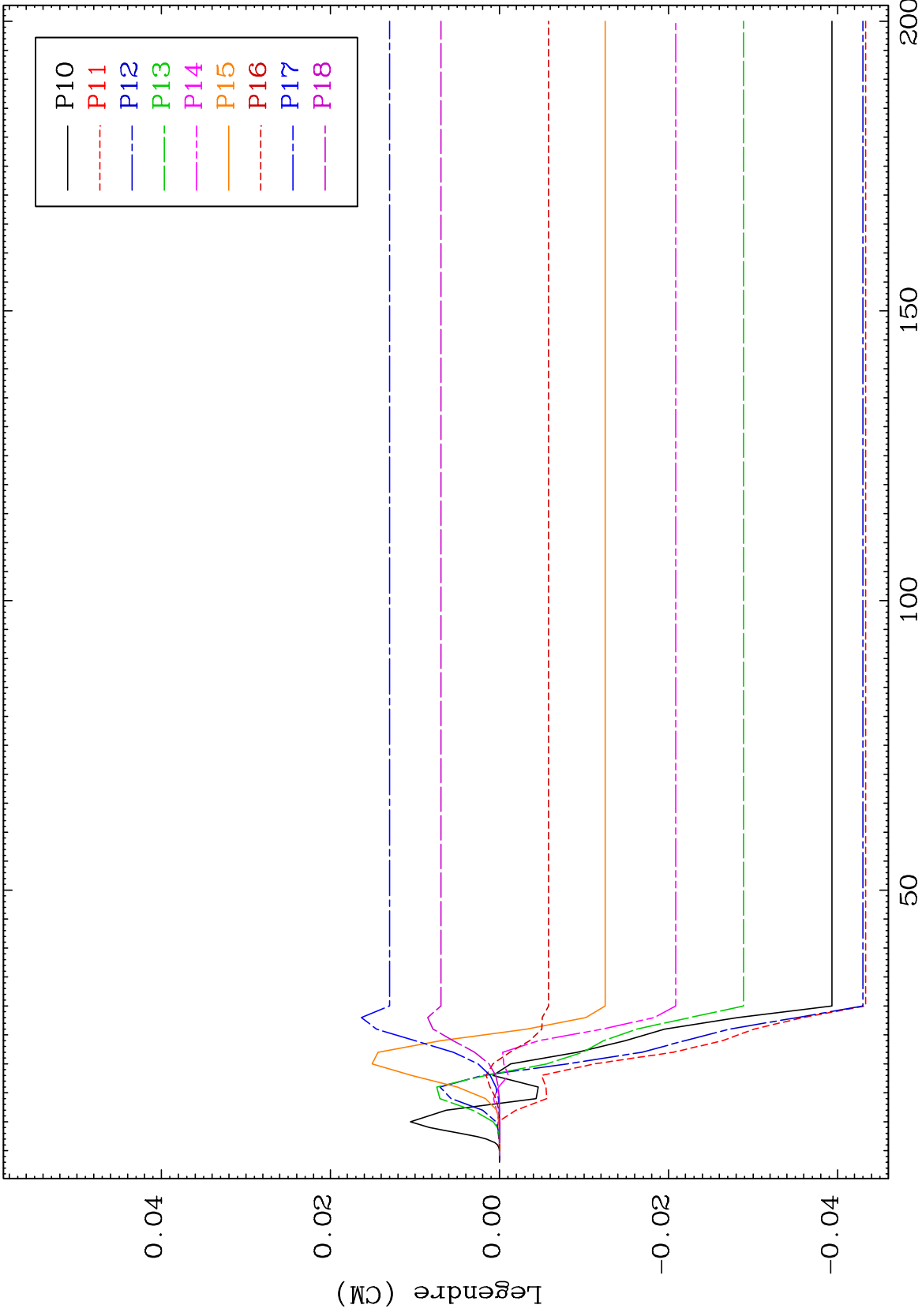
104



MAT 6404

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

64-Gd-145



106

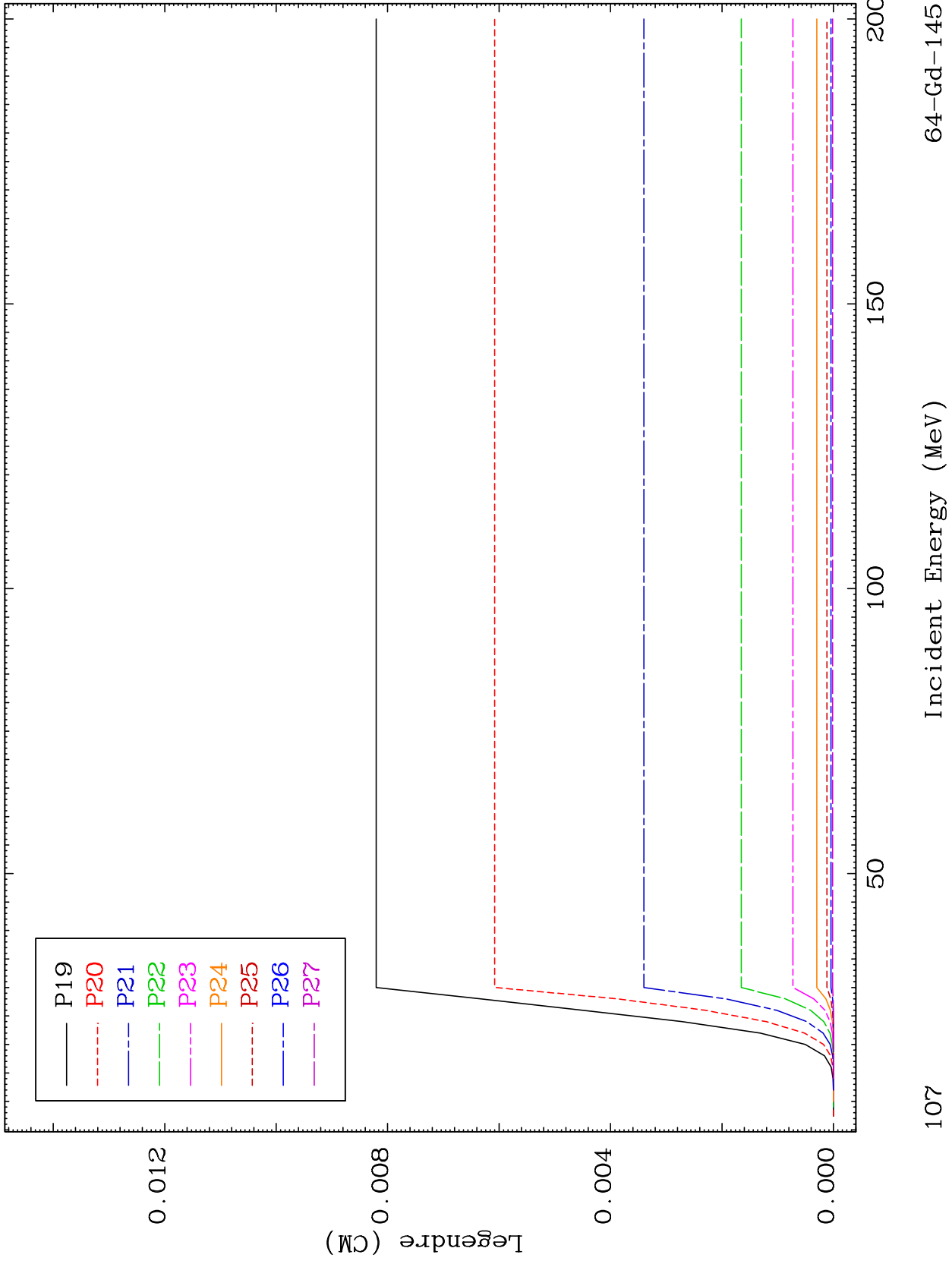
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



107

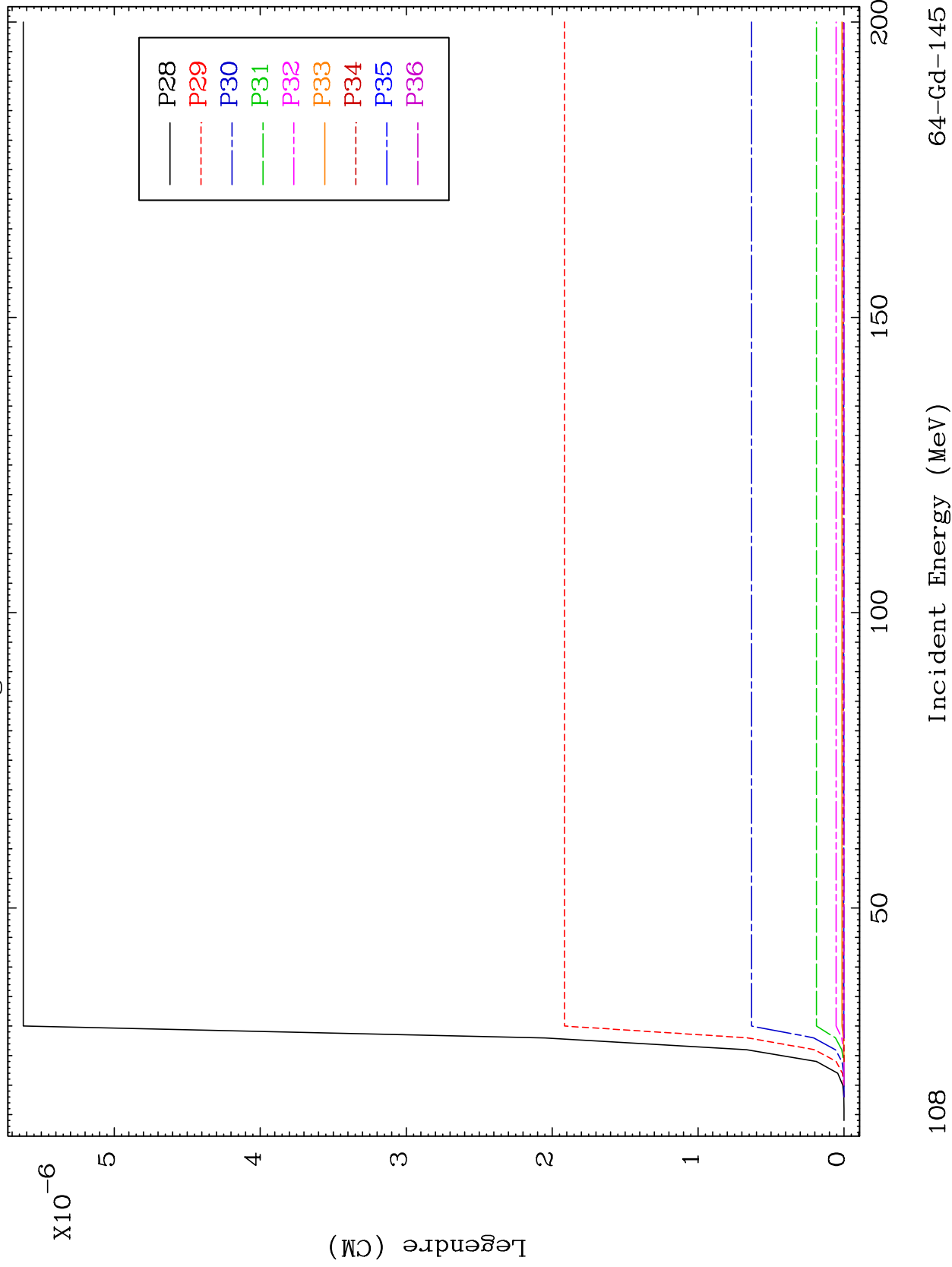
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

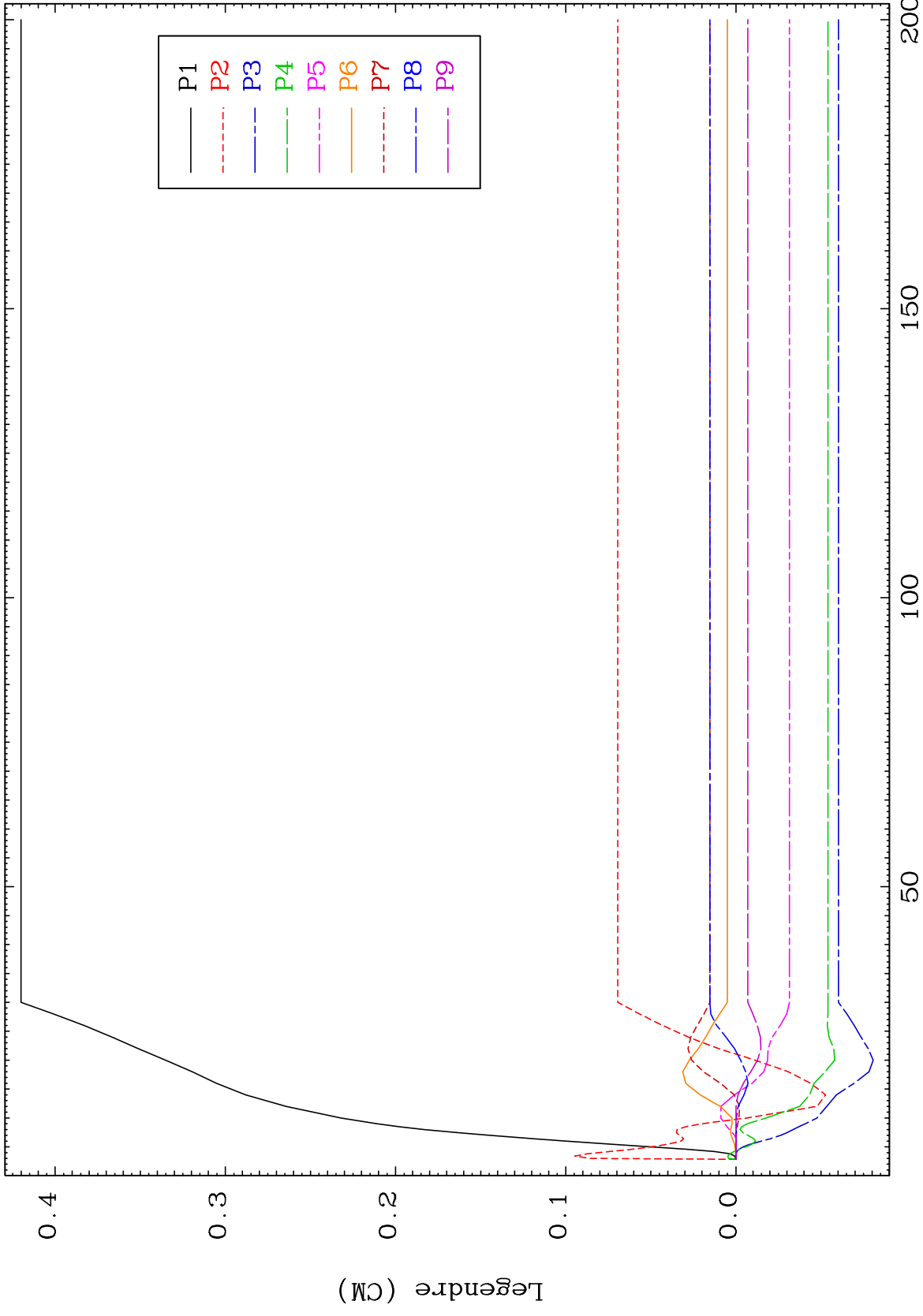
64-Gd-145



MAT 6404

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

64-Gd-145



109

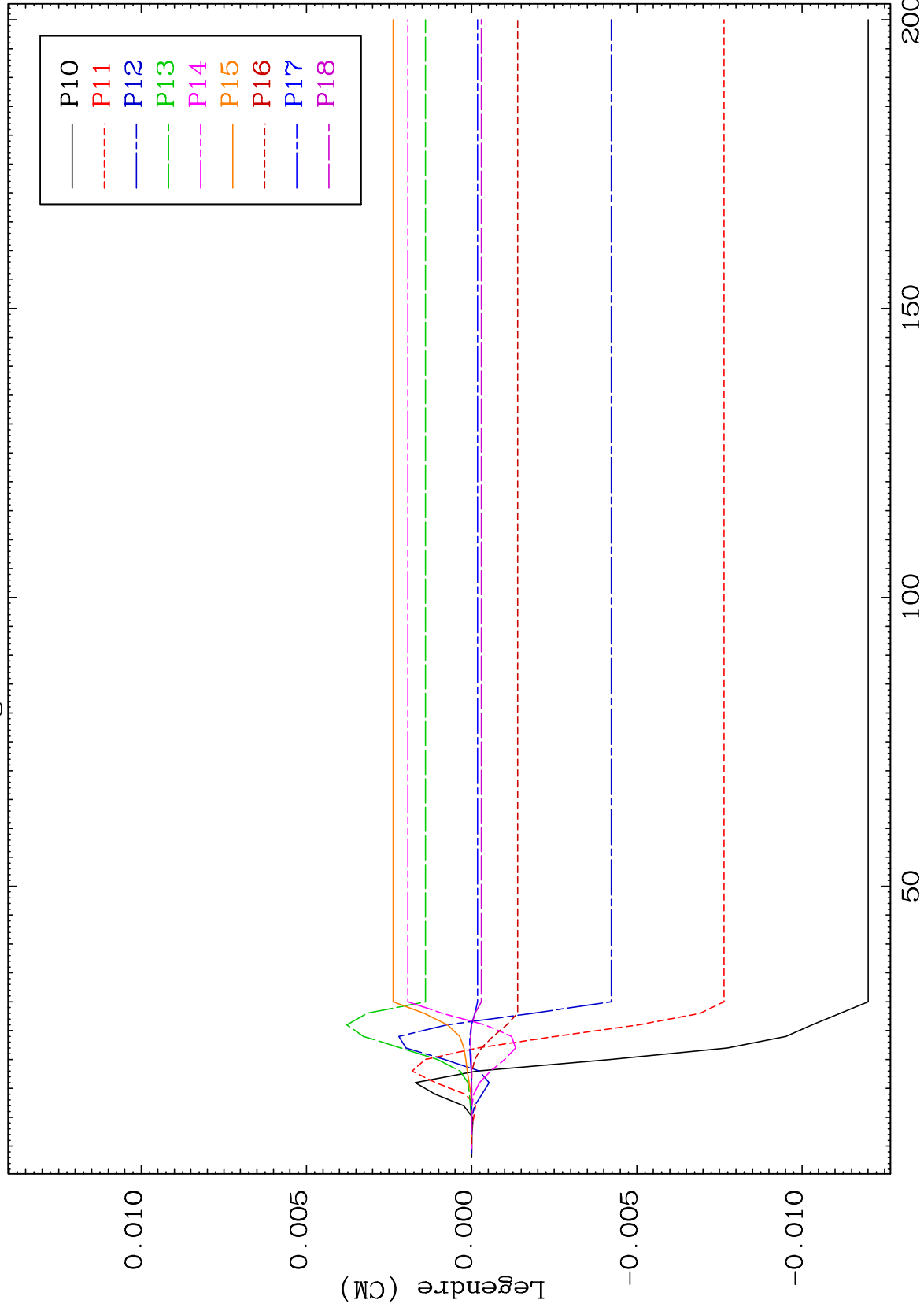
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



110

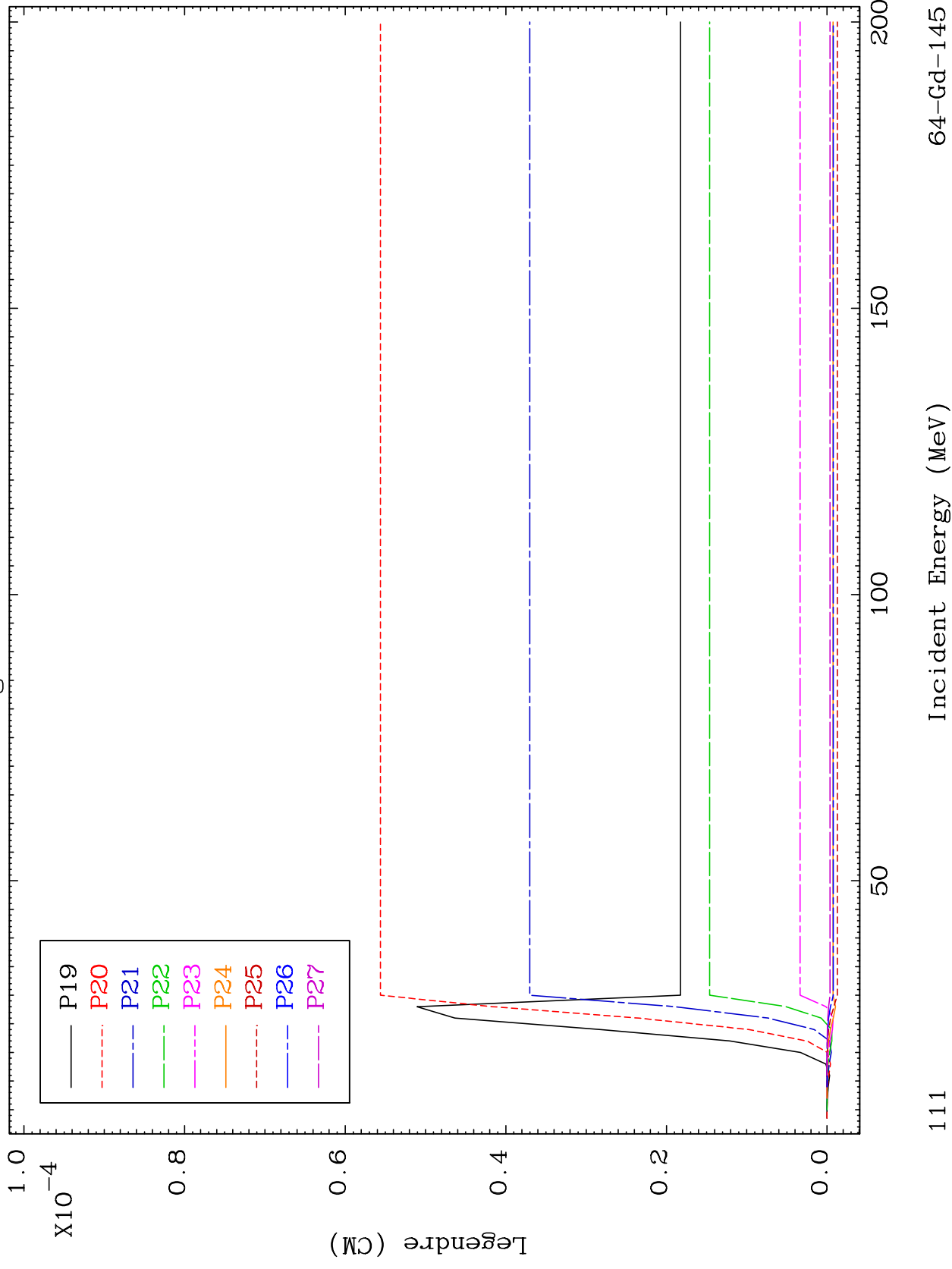
Incident Energy (MeV)

64-Gd-145

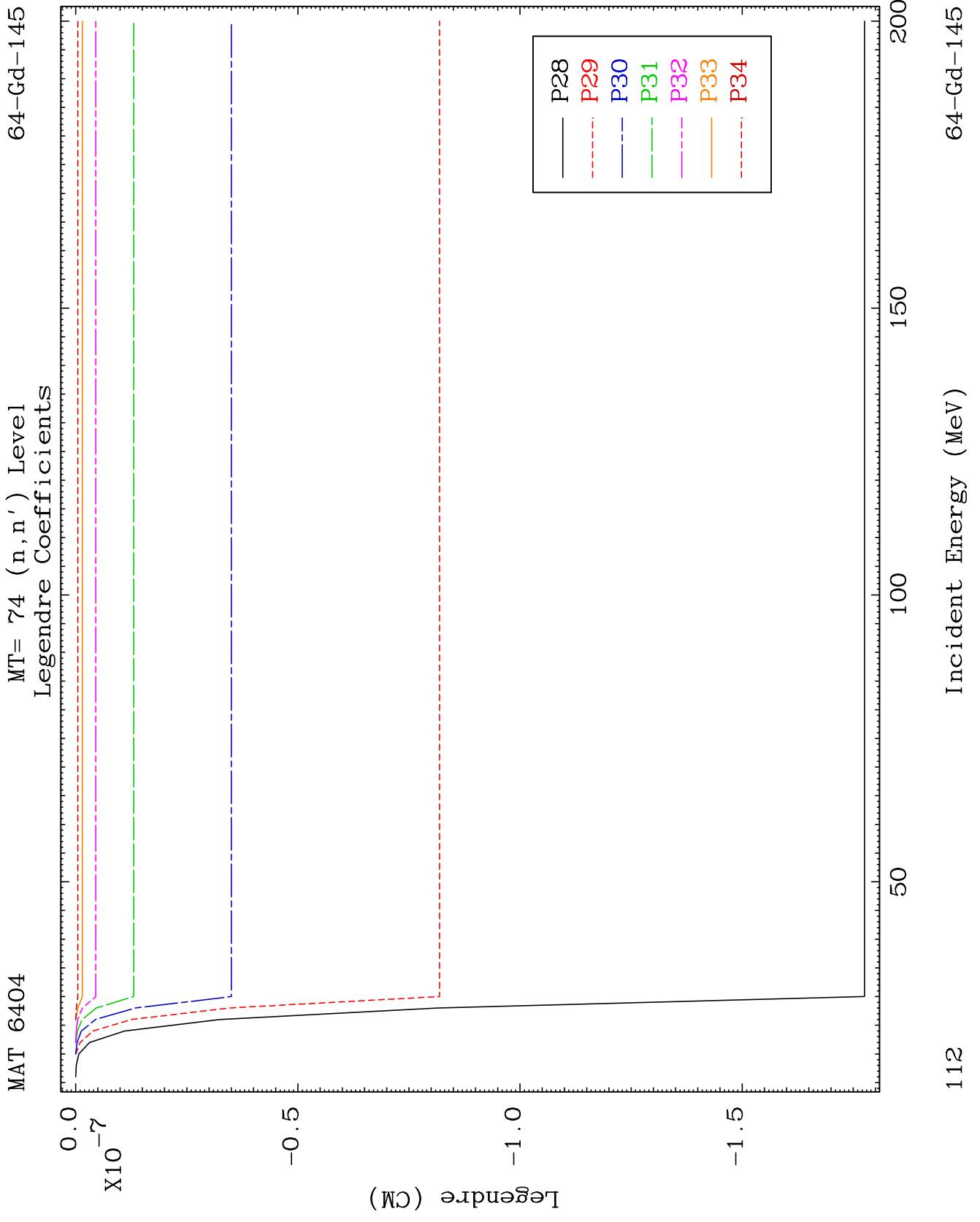
MAT 6404

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

64-Gd-145



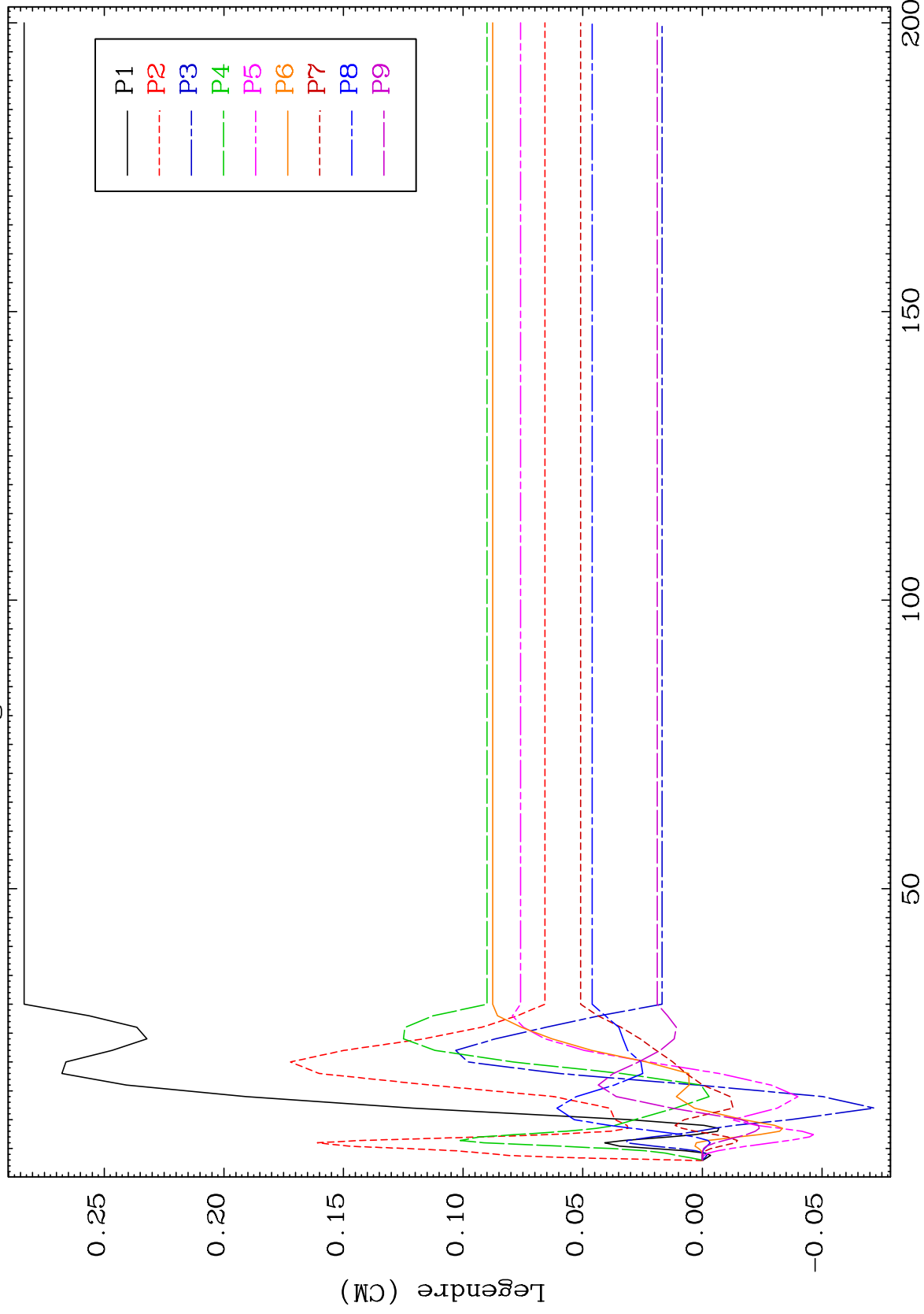




MAT 6404

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

64-Gd-145



113

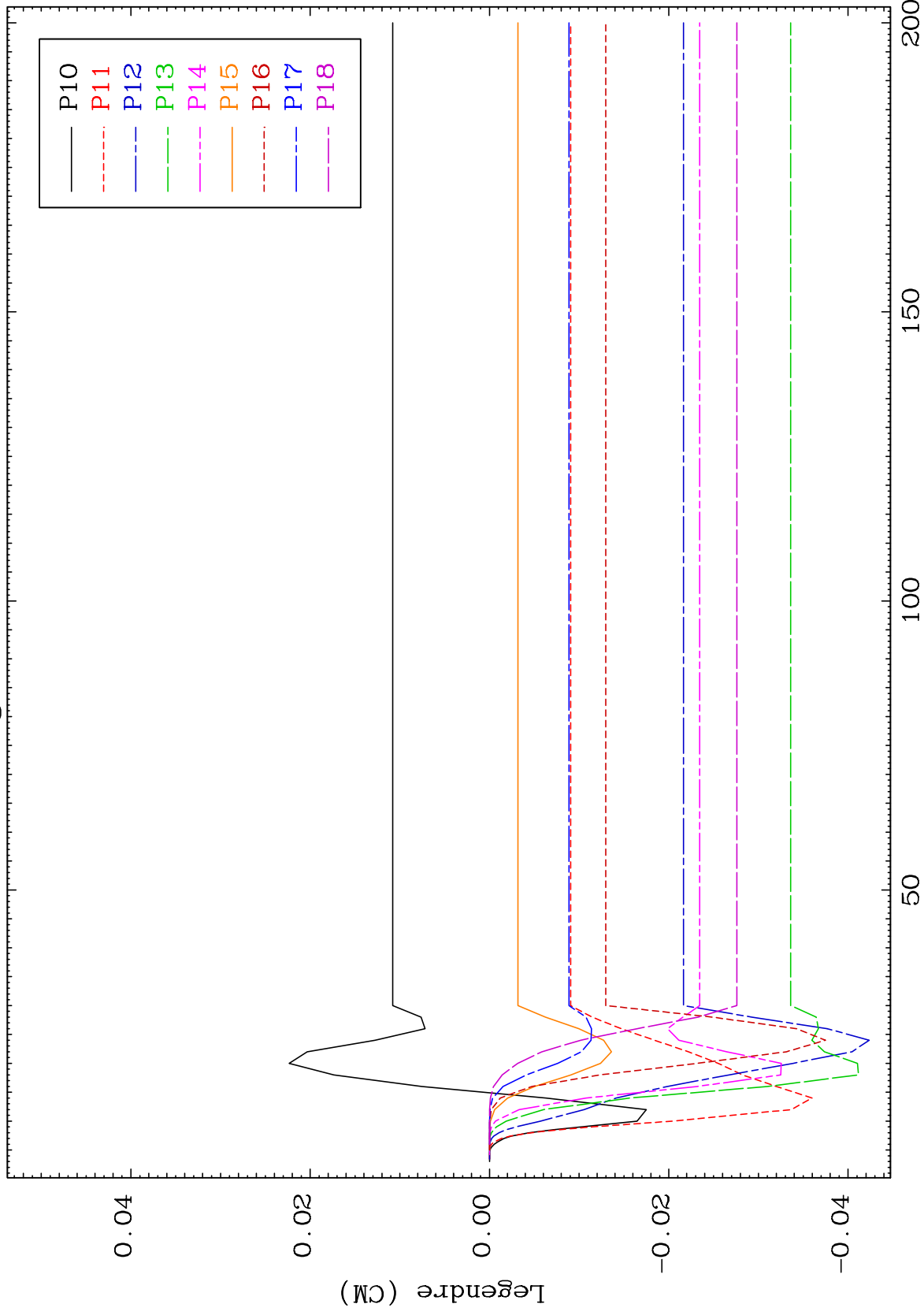
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

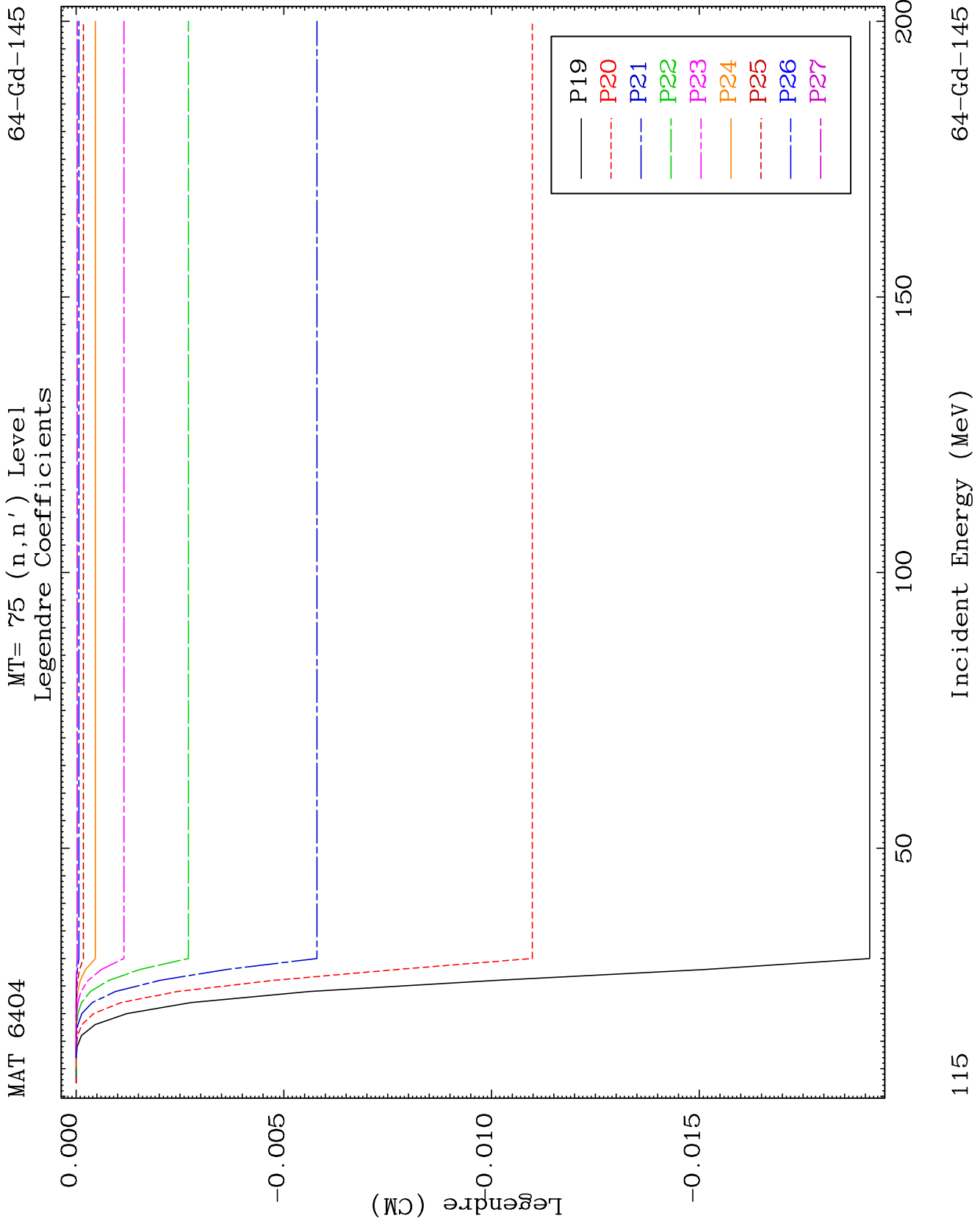
64-Gd-145

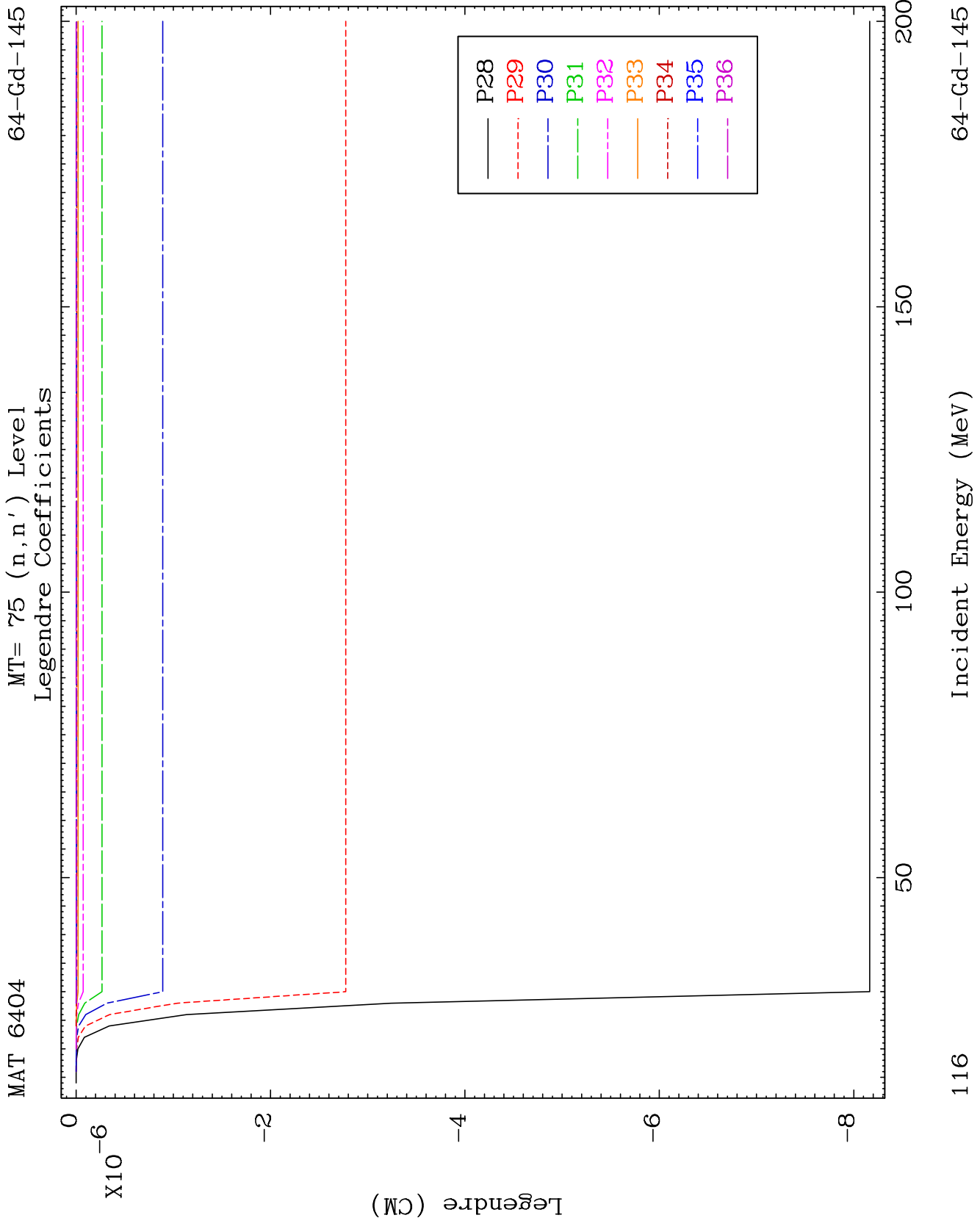


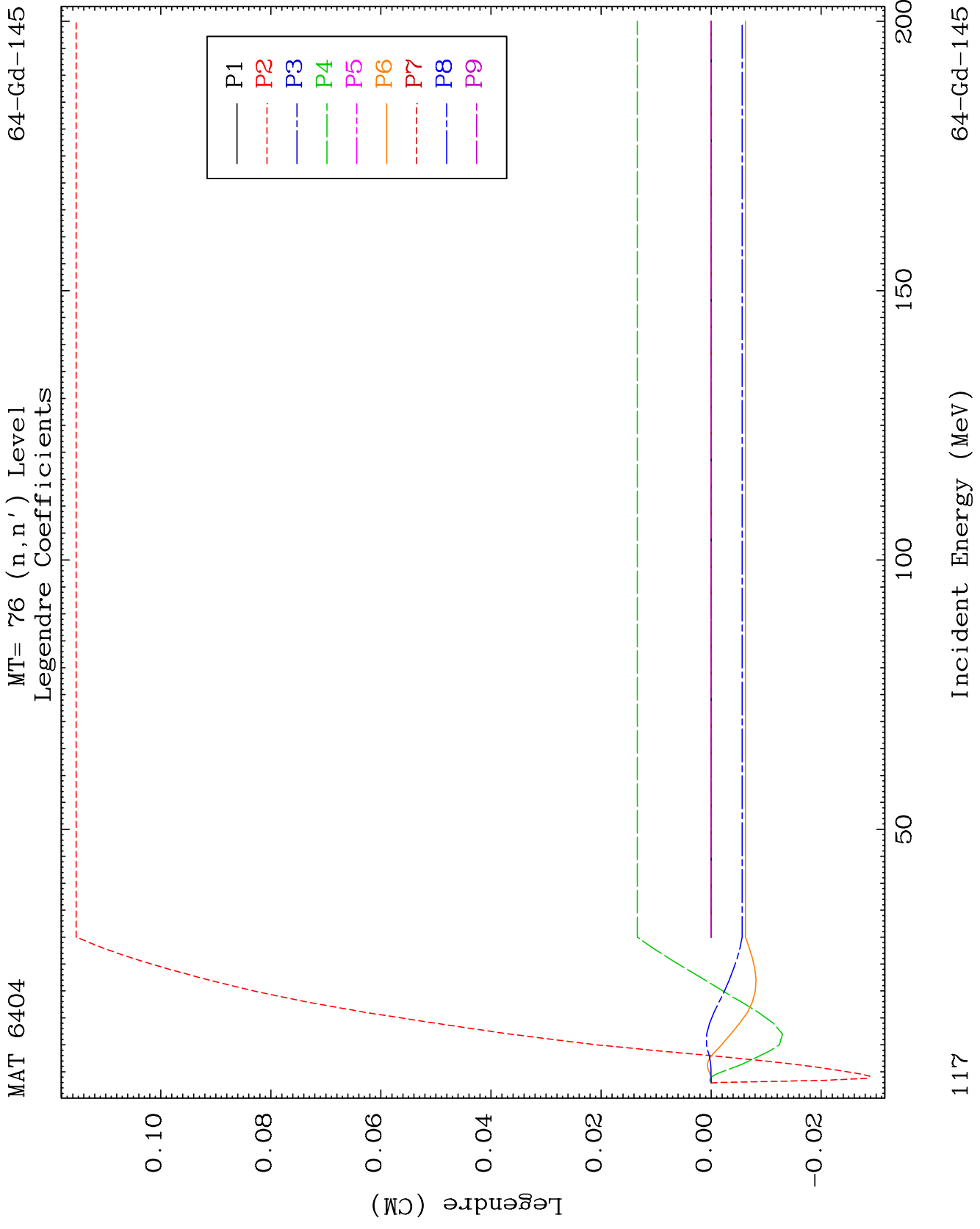
114

Incident Energy (MeV)

64-Gd-145



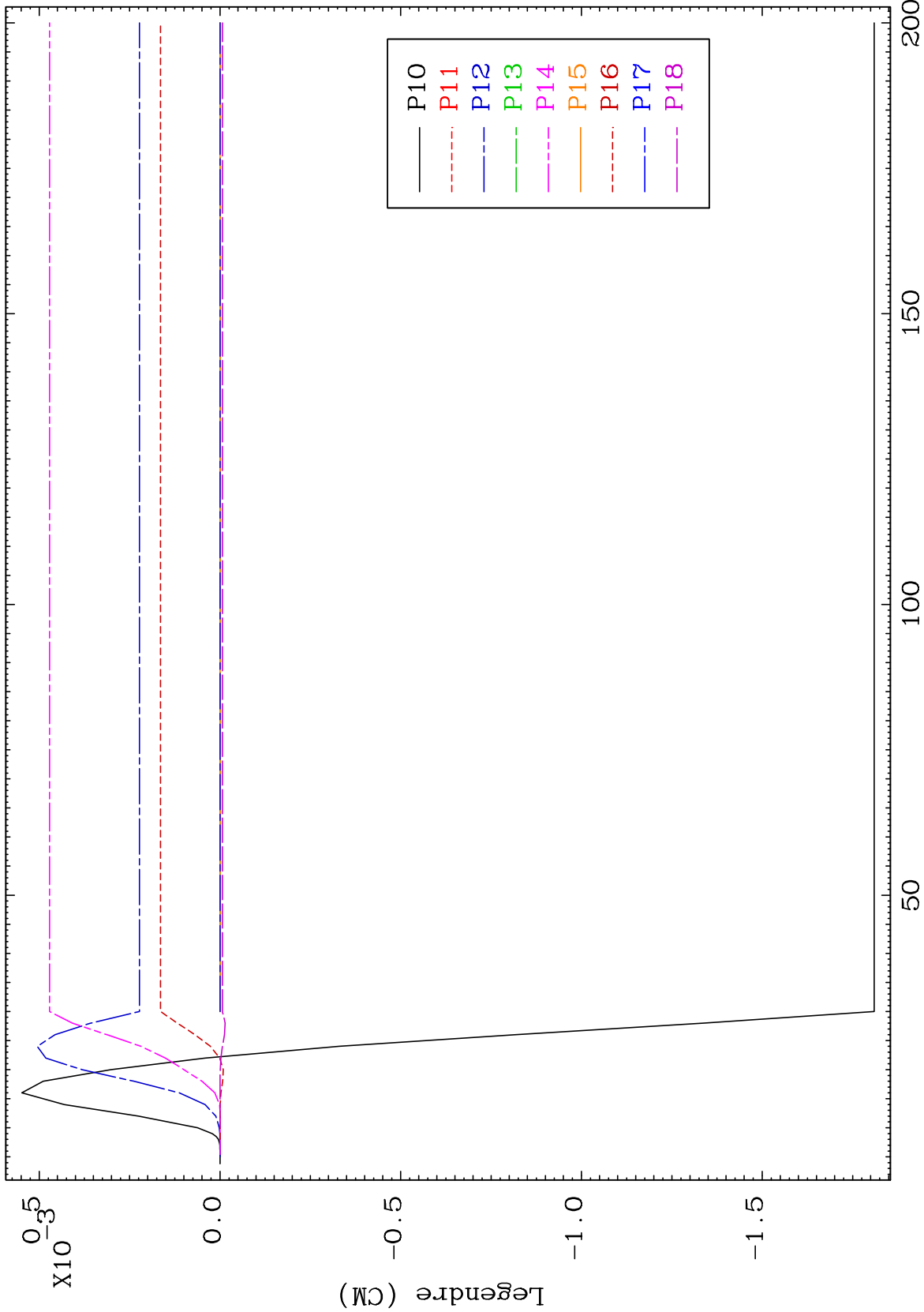




MAT 6404

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

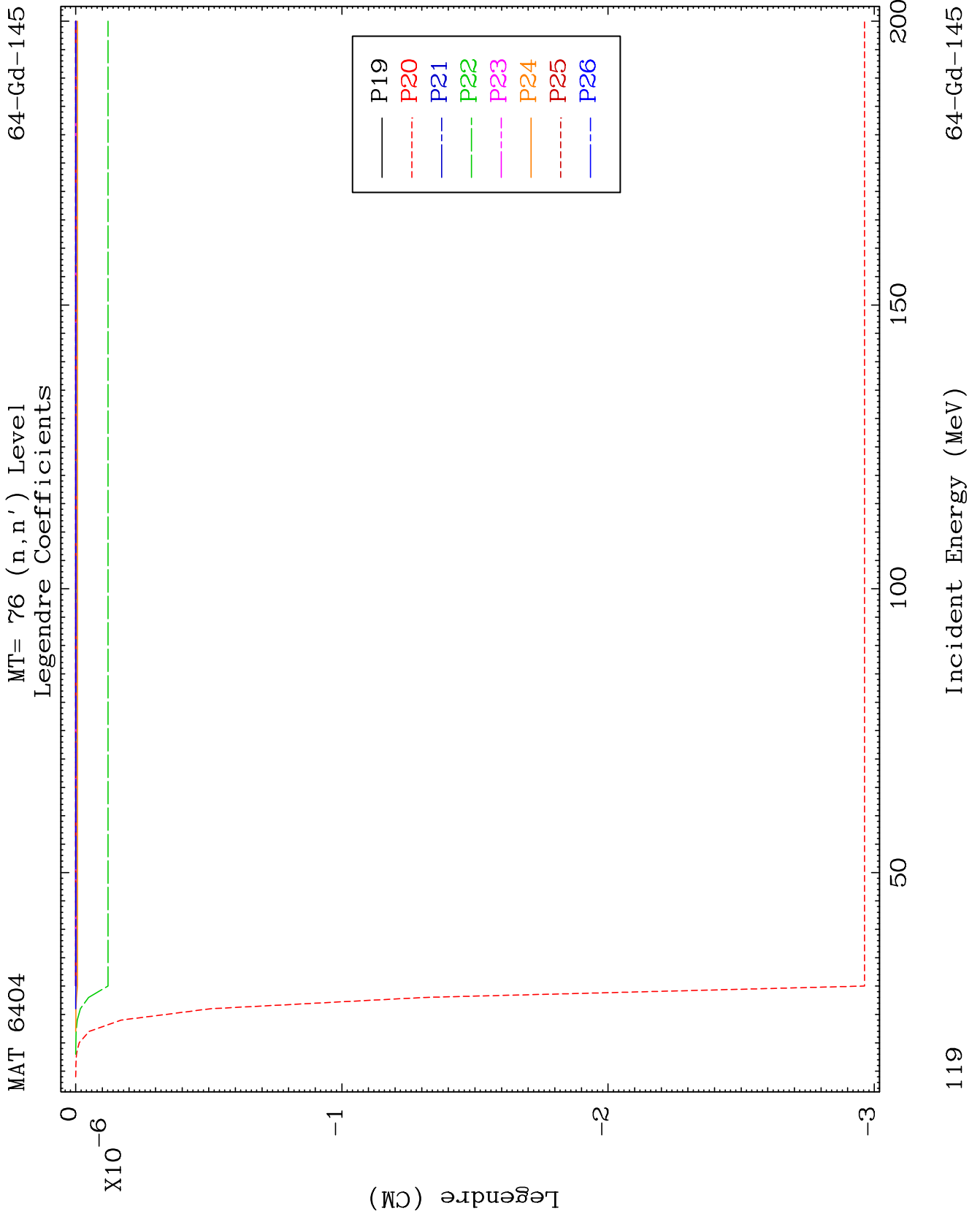
64-Gd-145



118

Incident Energy (MeV)

64-Gd-145



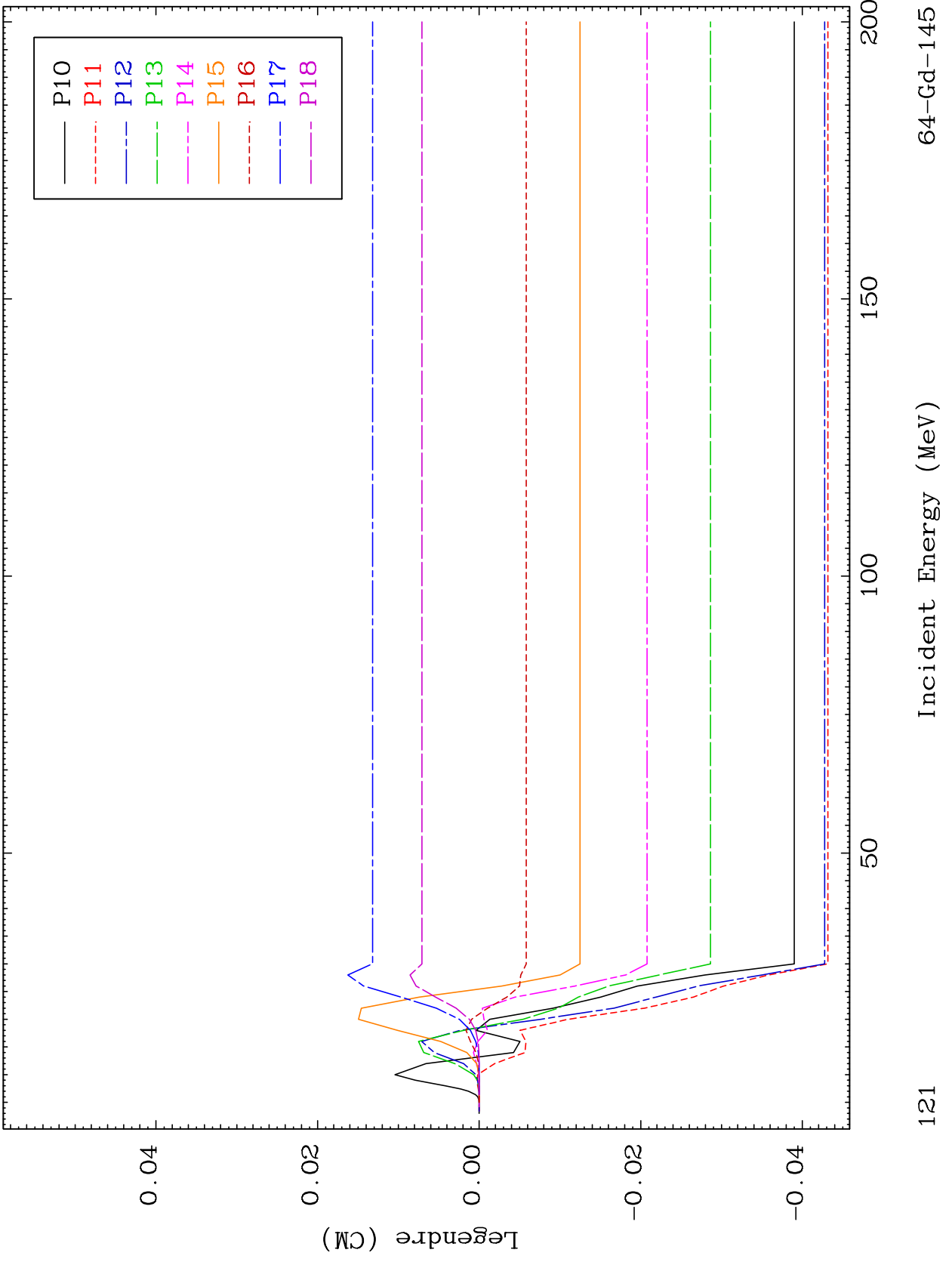




MAT 6404

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

64-Gd-145



121

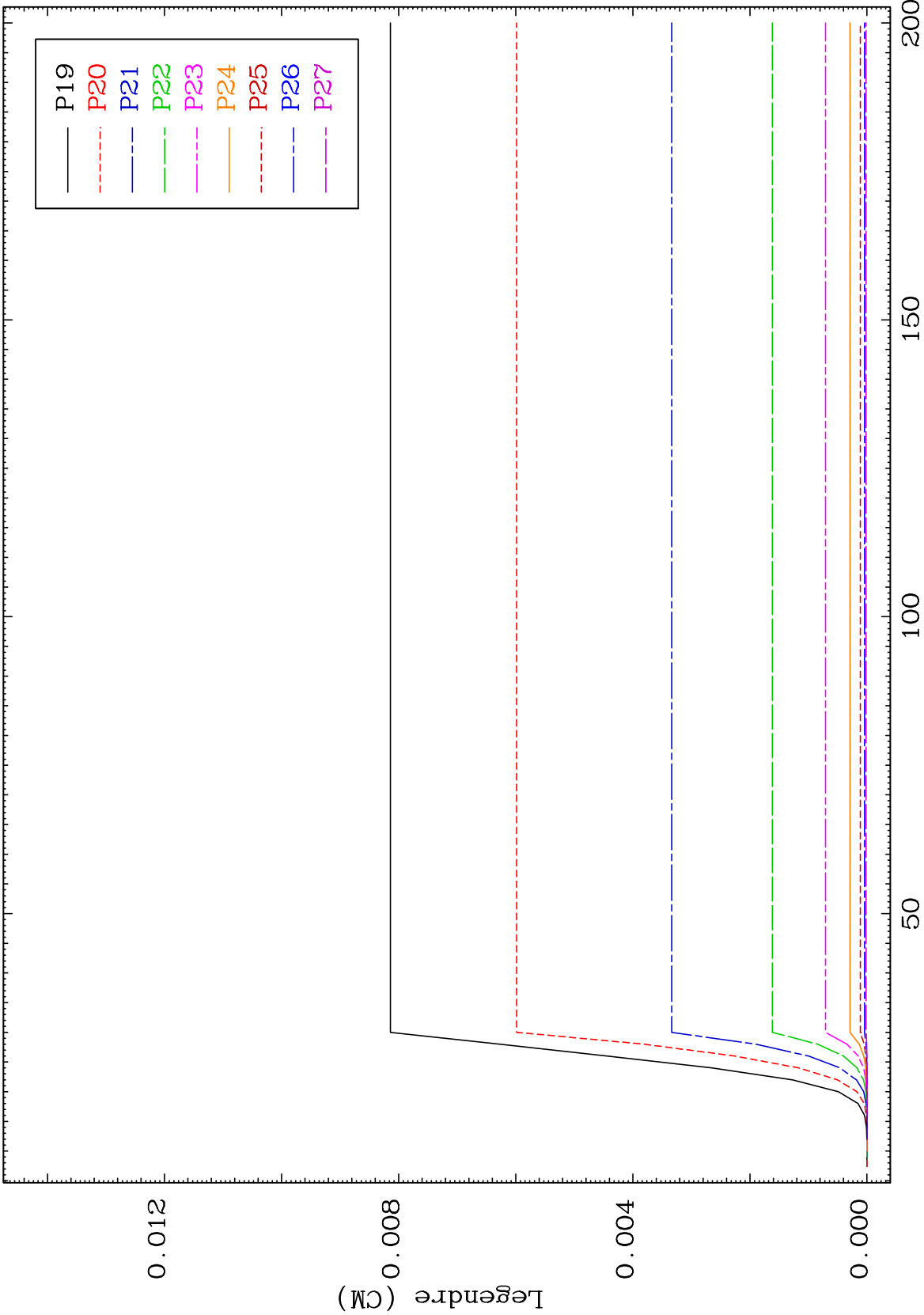
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



122

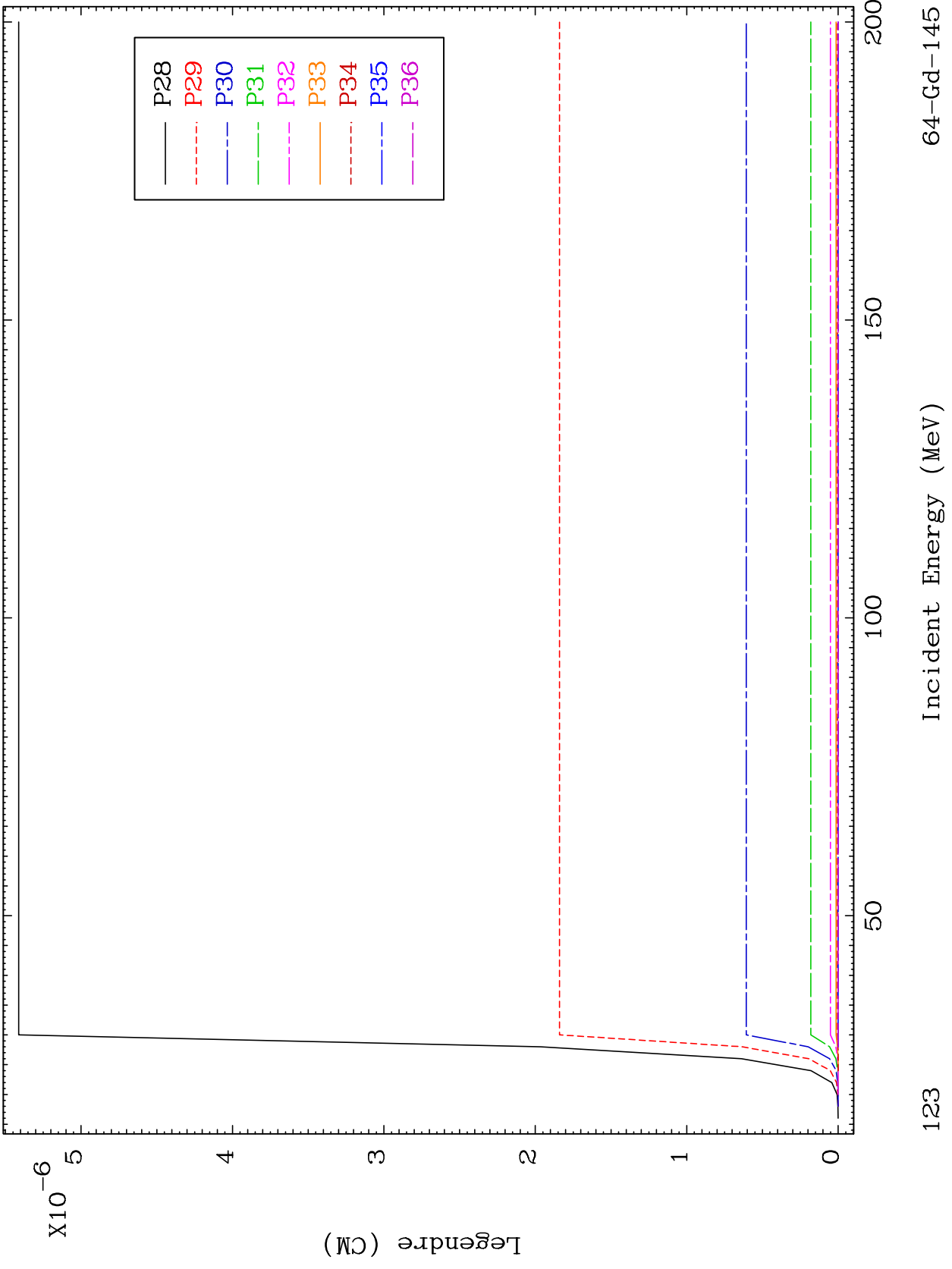
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



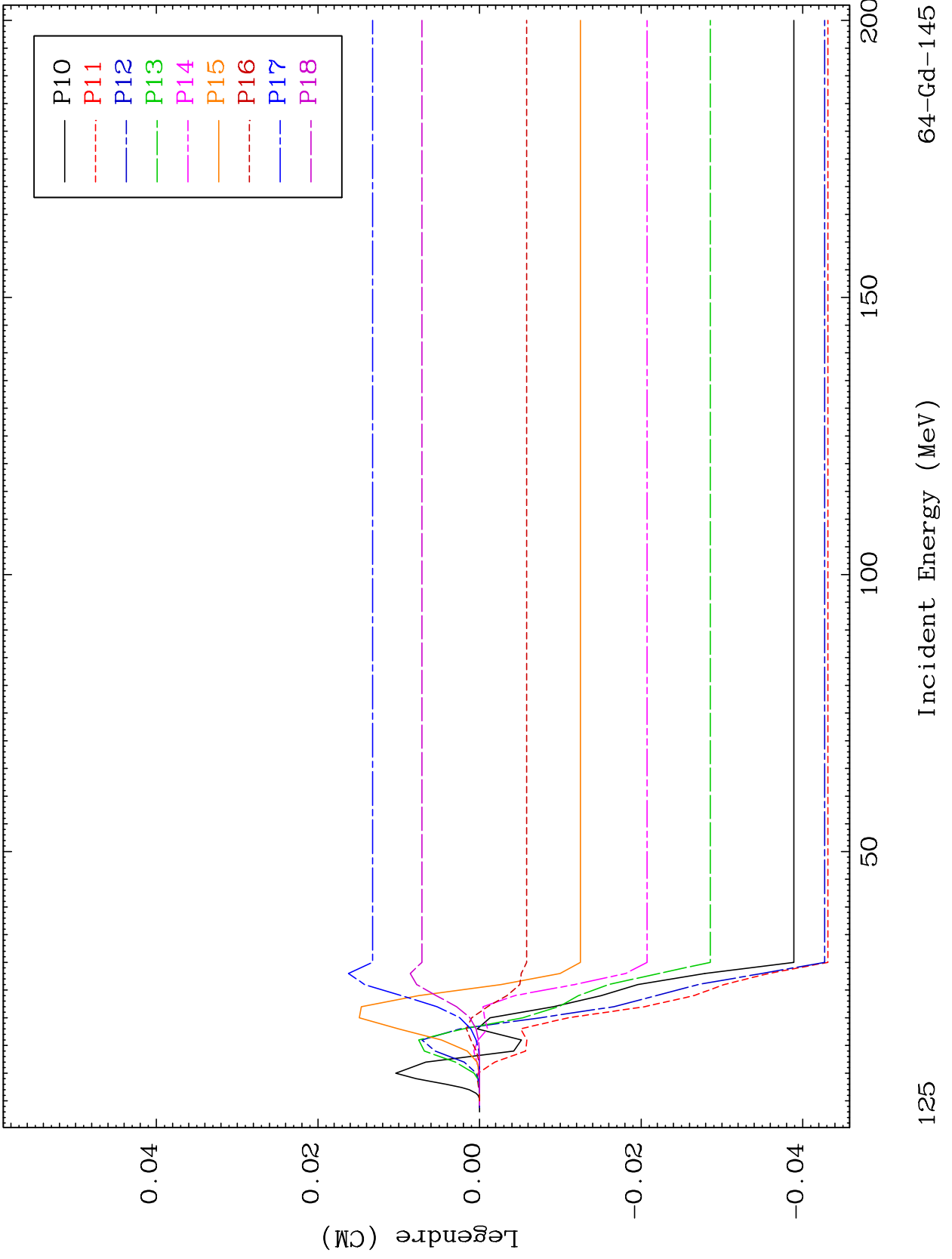
123



MAT 6404

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

64-Gd-145



125

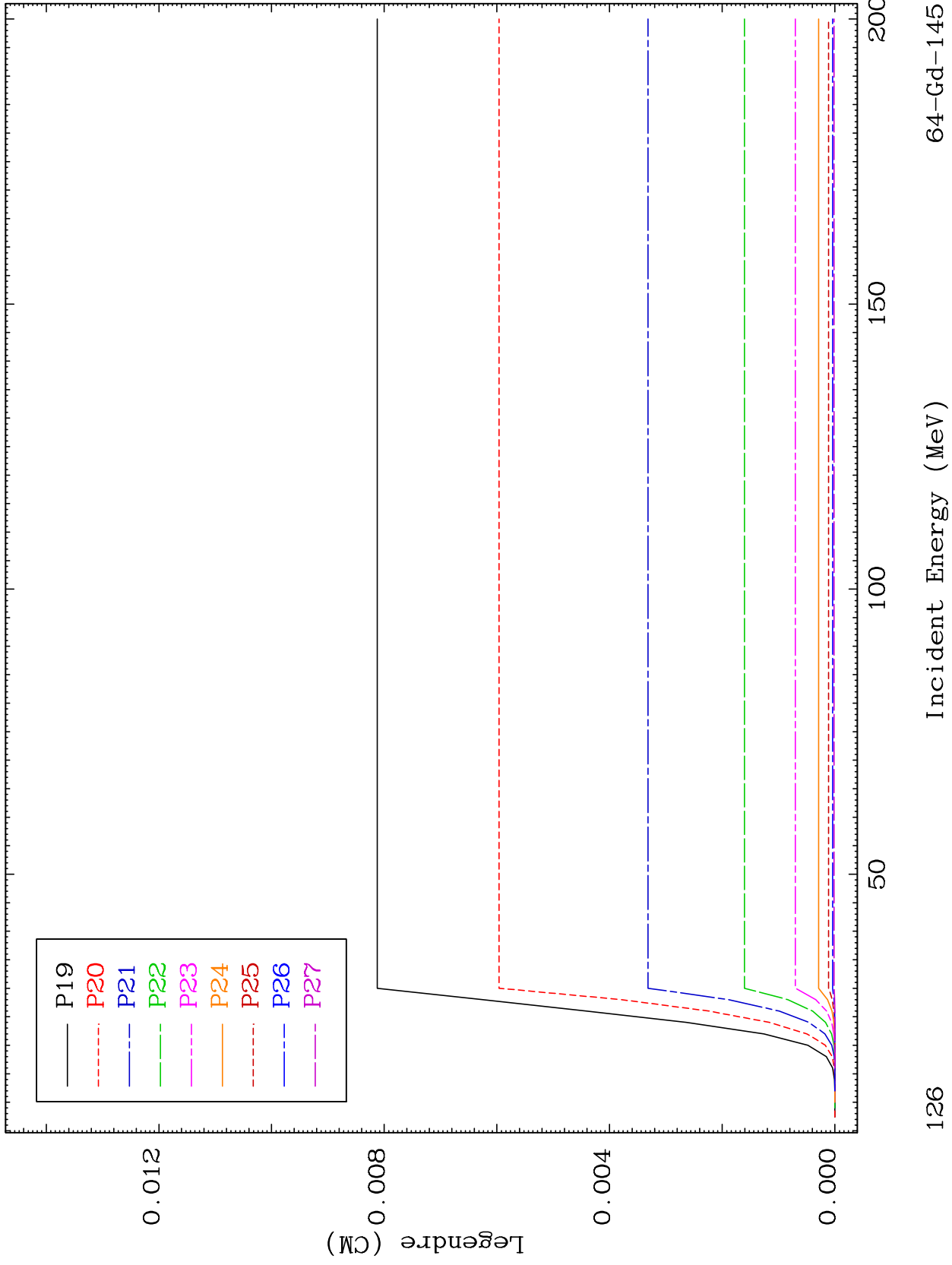
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



126

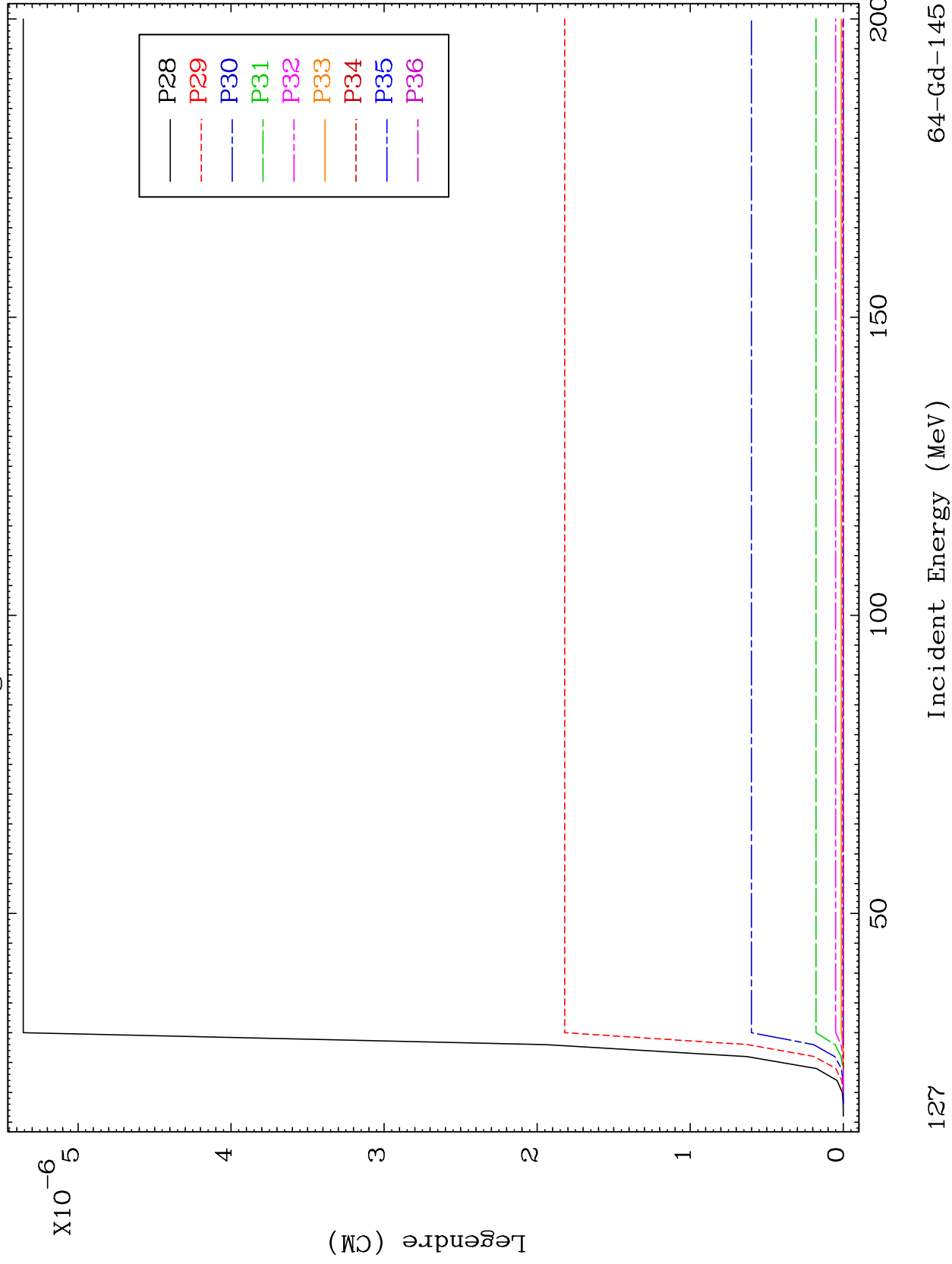
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

64-Gd-145



127

Incident Energy (MeV)

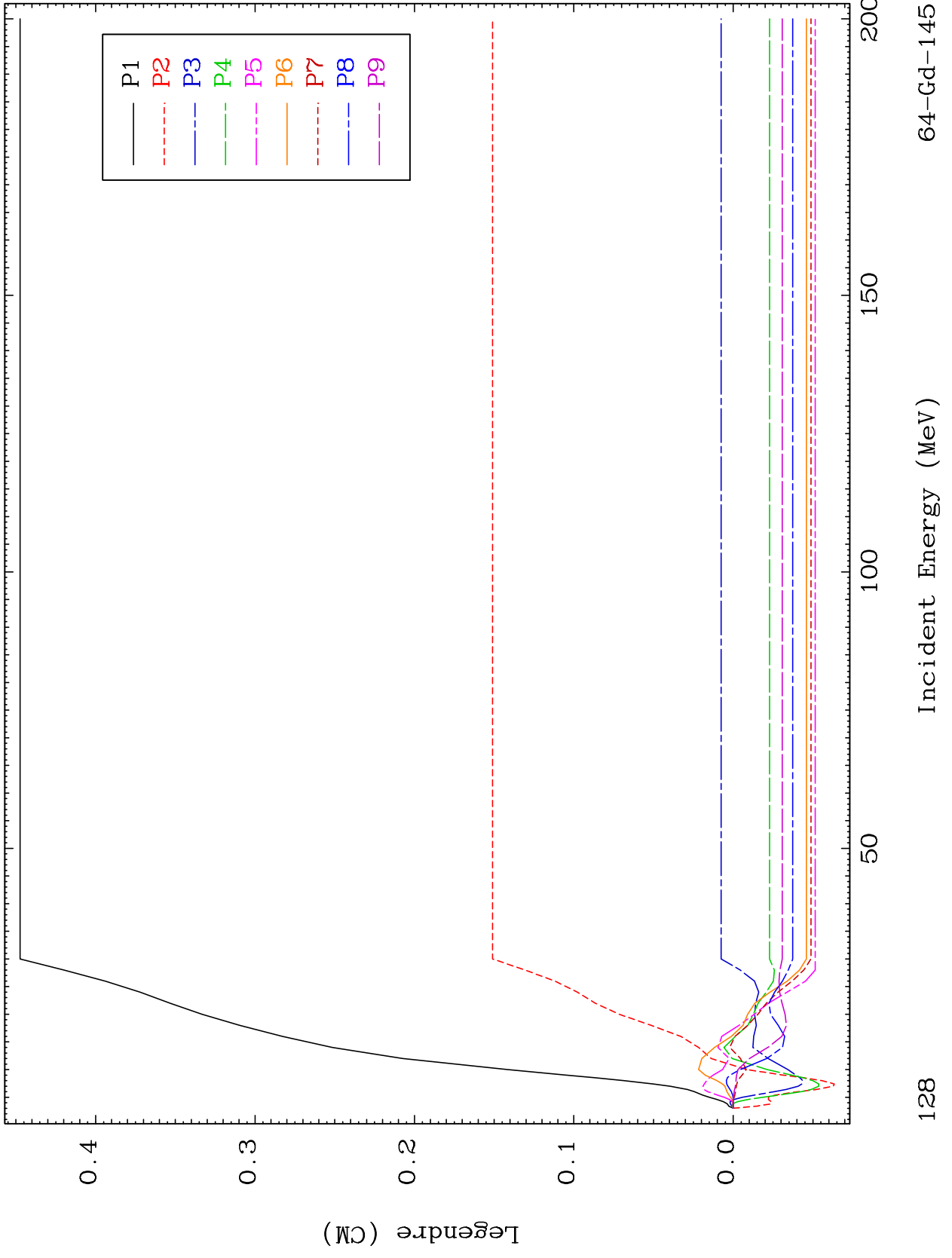
64-Gd-145



MAT 6404

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

64-Gd-145



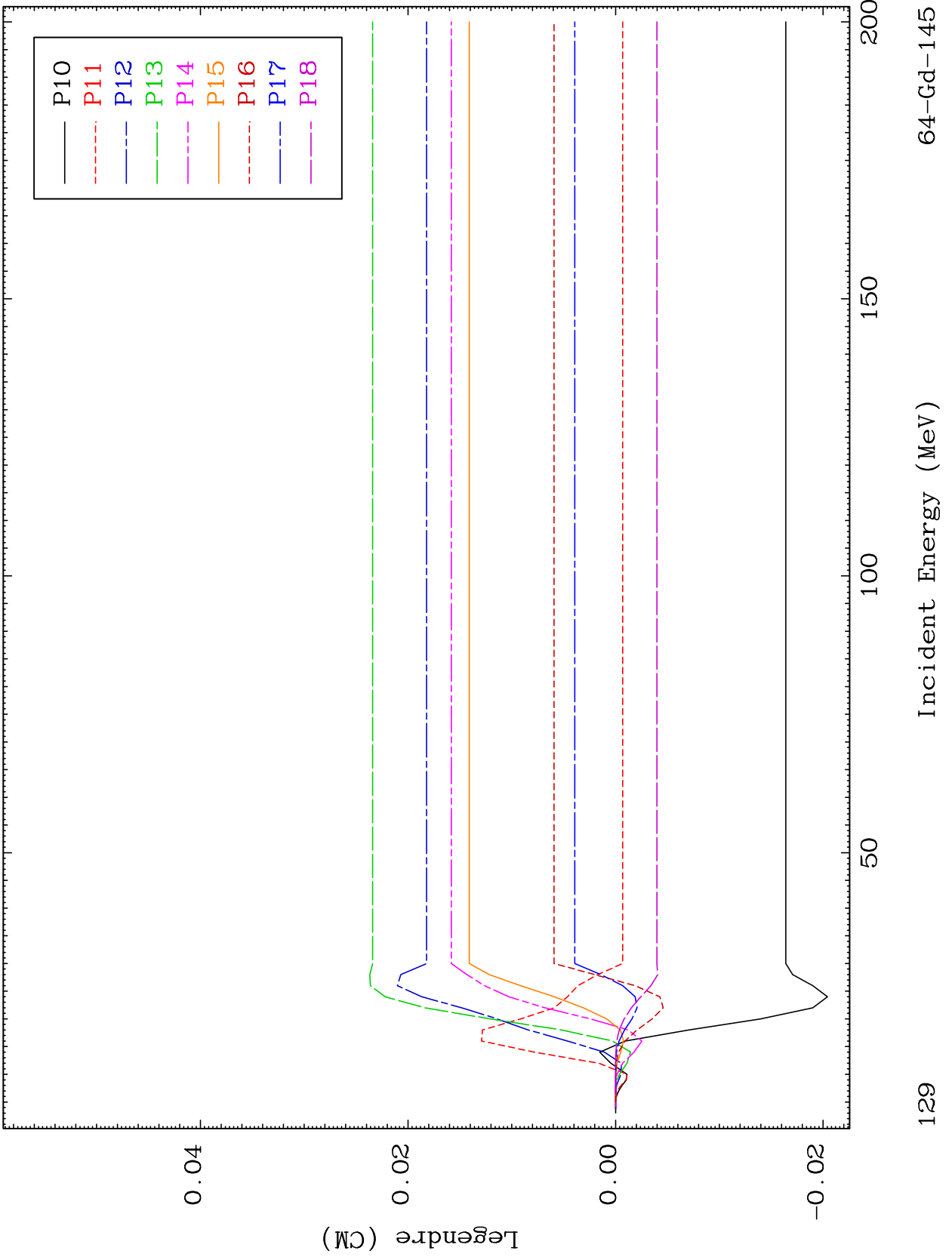
128

64-Gd-145

MAT 6404

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

64-Gd-145

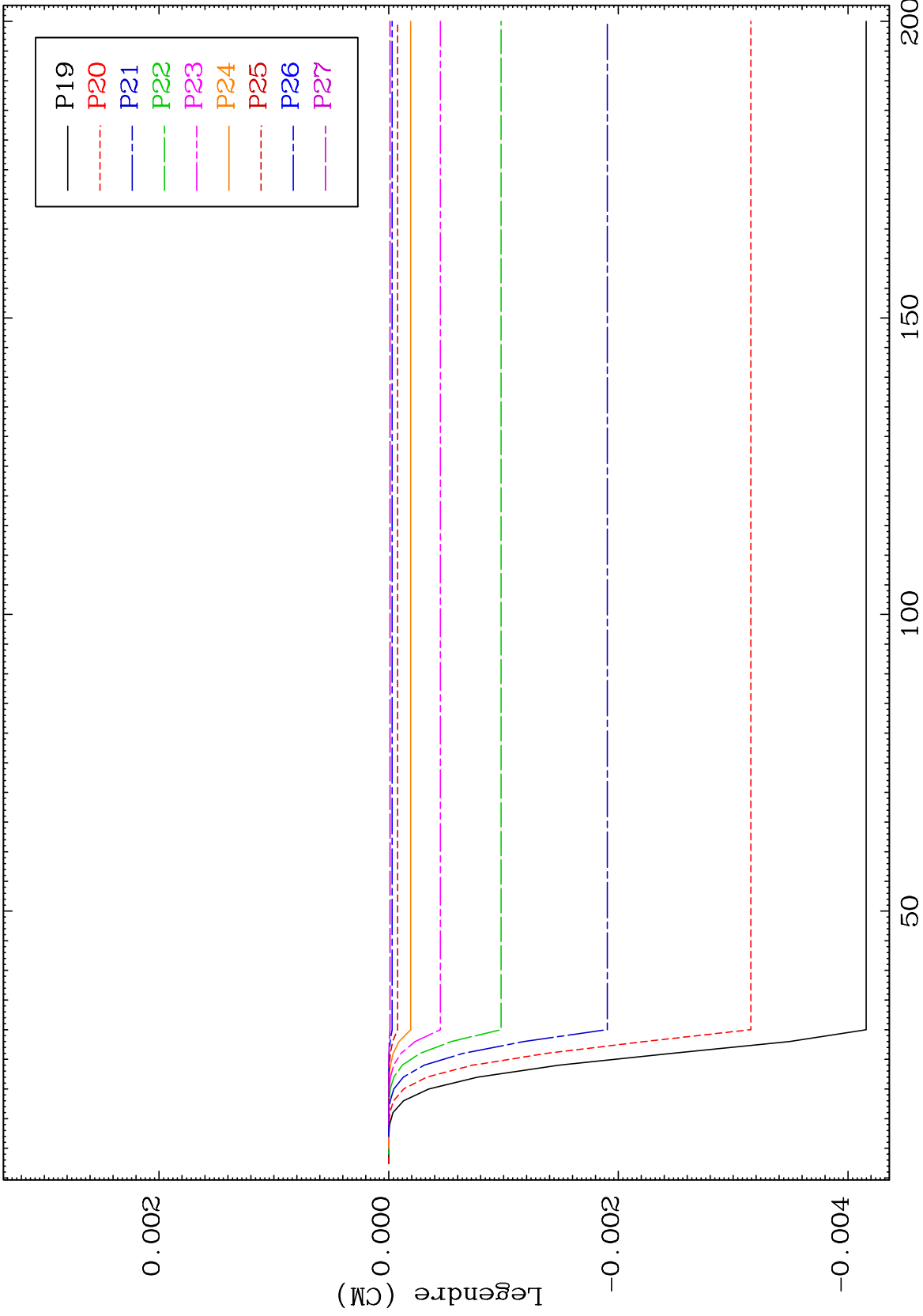


129

MAT 6404

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

64-Gd-145



130

Incident Energy (MeV)

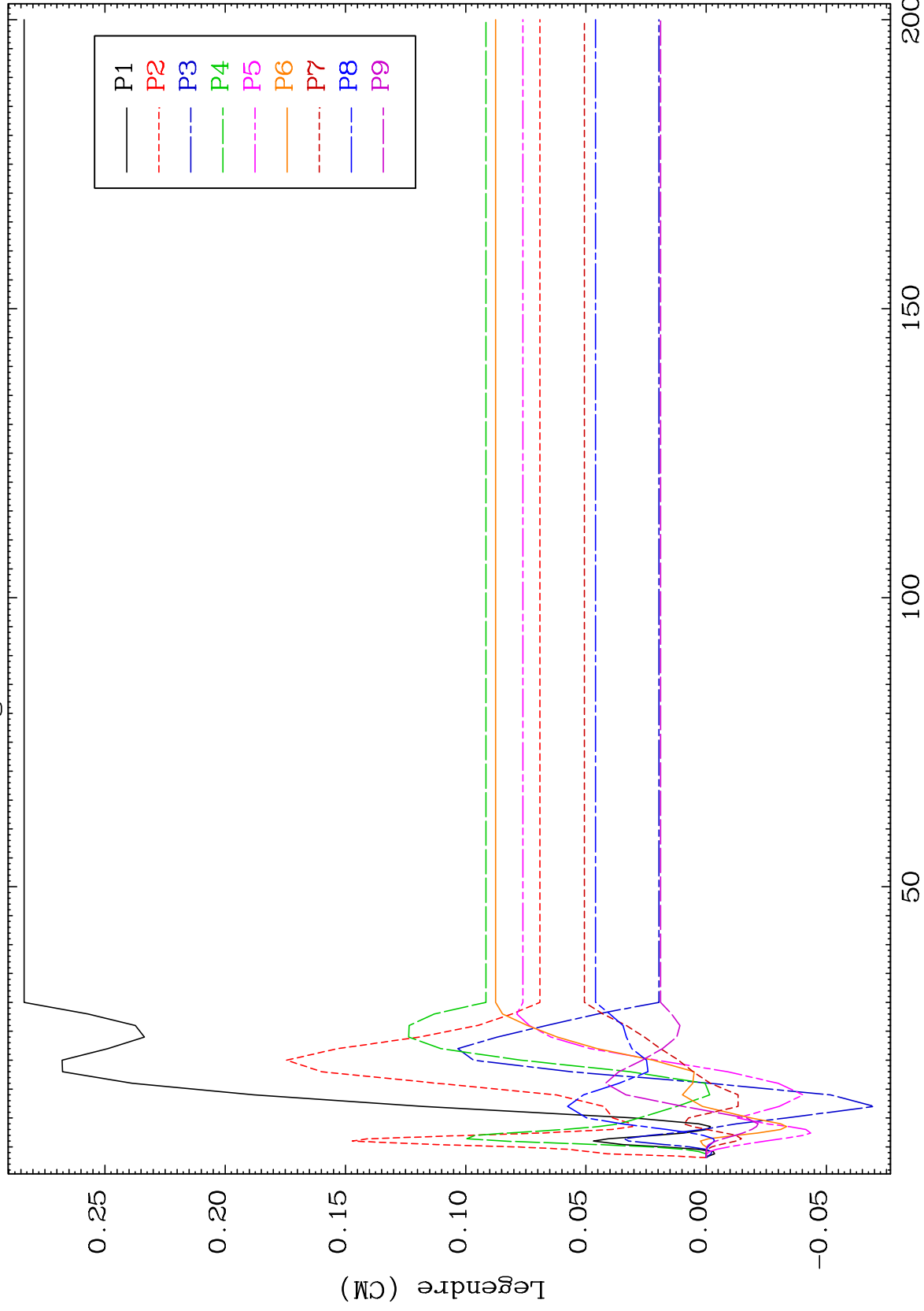
64-Gd-145



MAT 6404

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

64-Gd-145



132

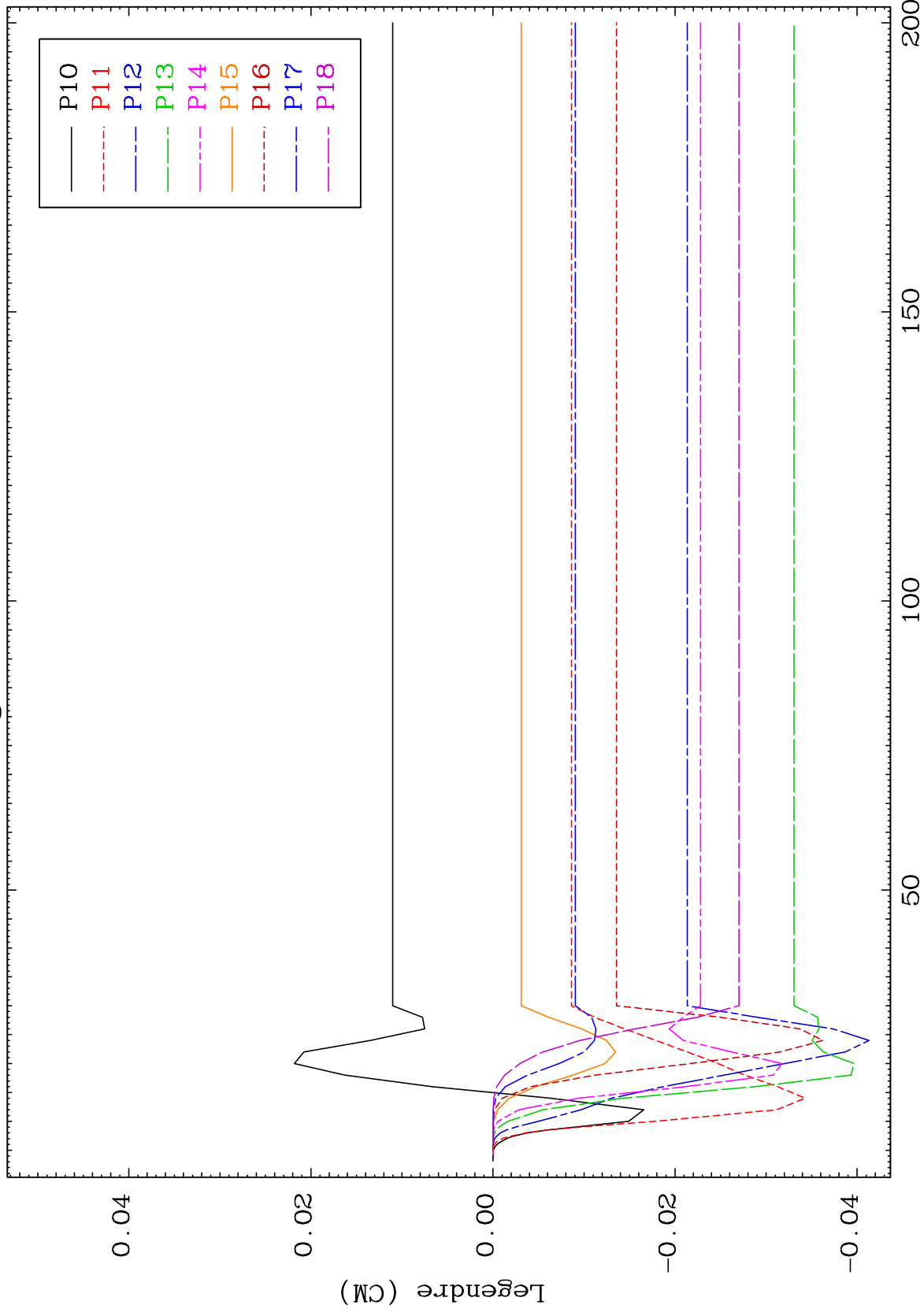
Incident Energy (MeV)

64-Gd-145

MAT 6404

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

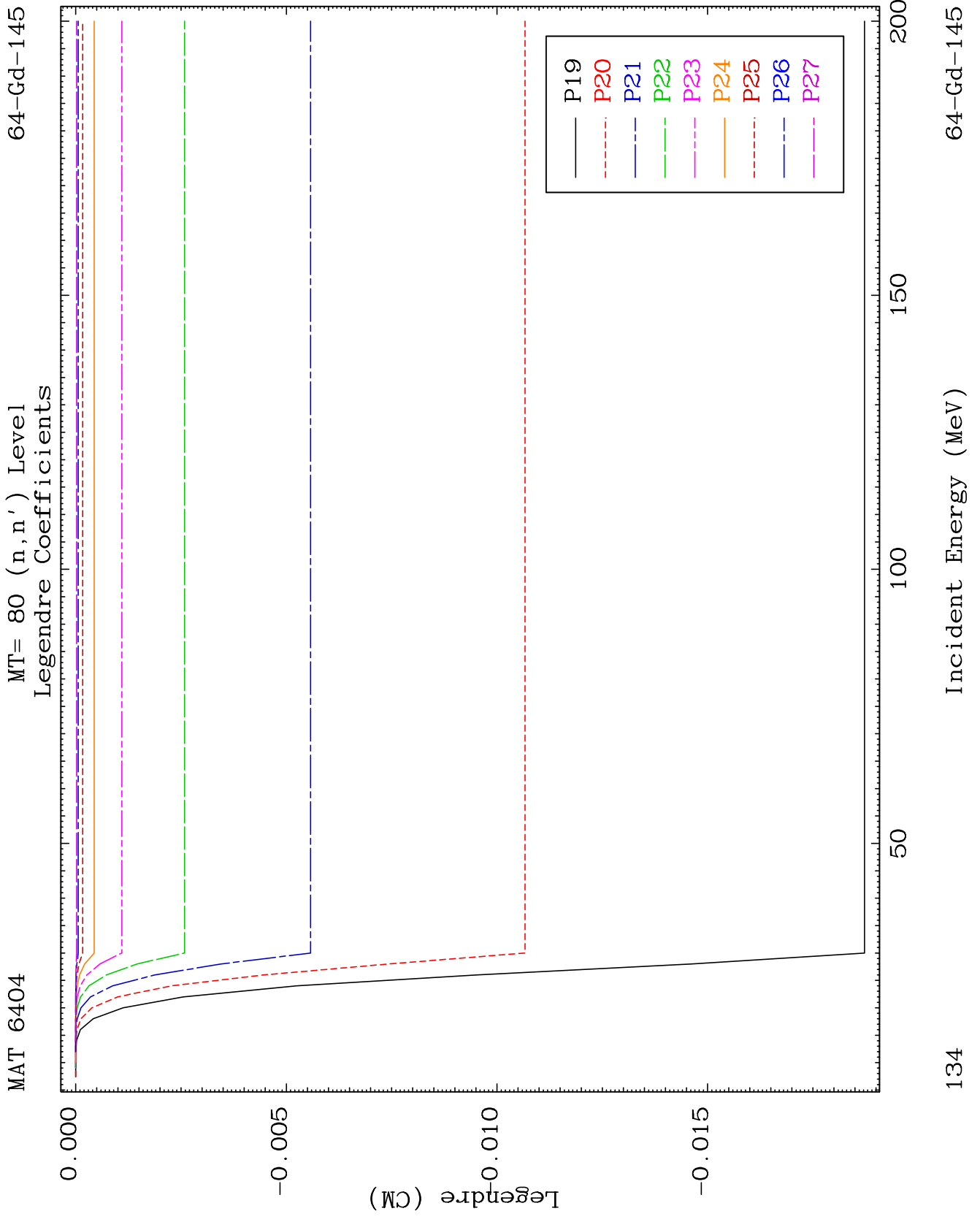
64-Gd-145

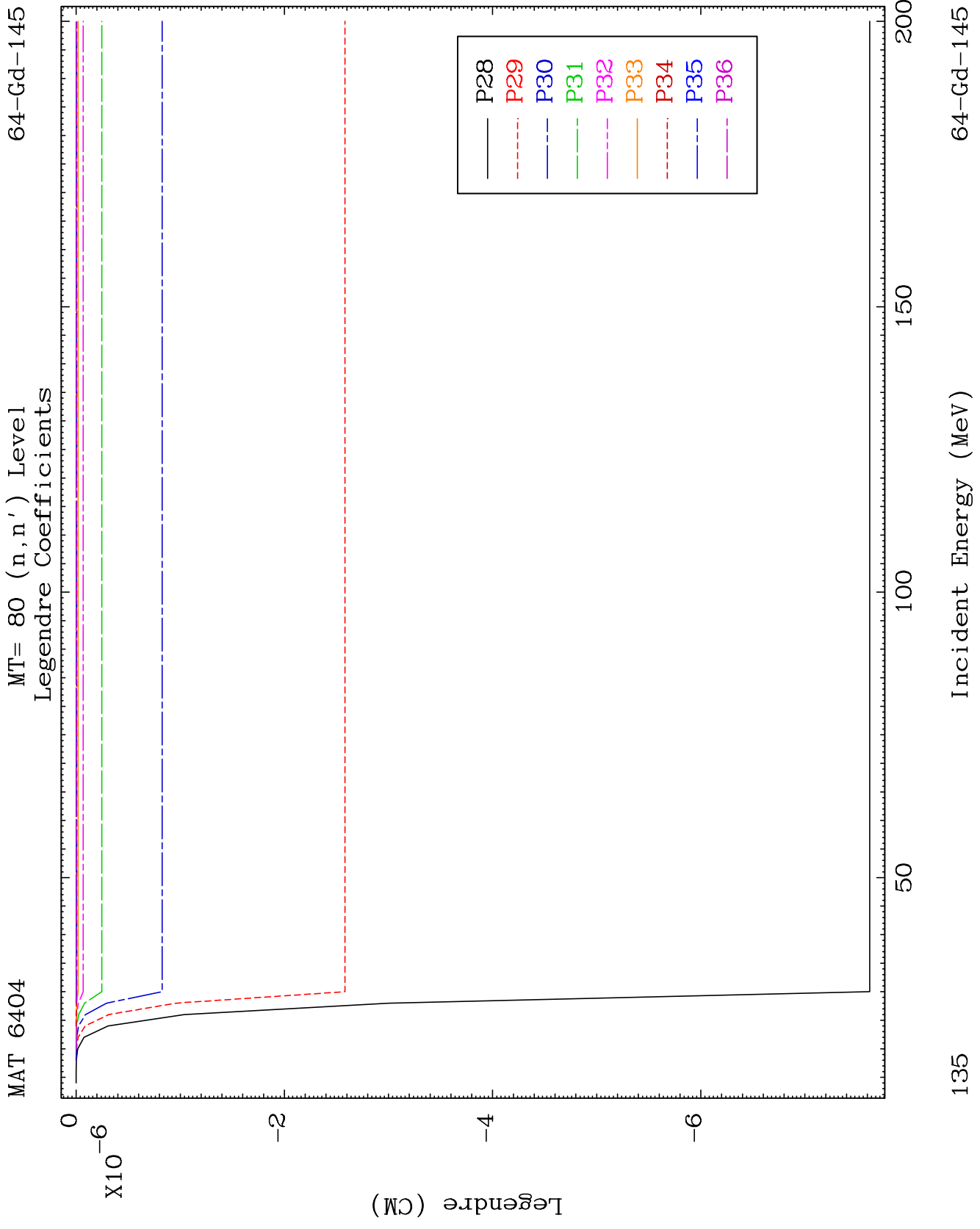


133

Incident Energy (MeV)

64-Gd-145



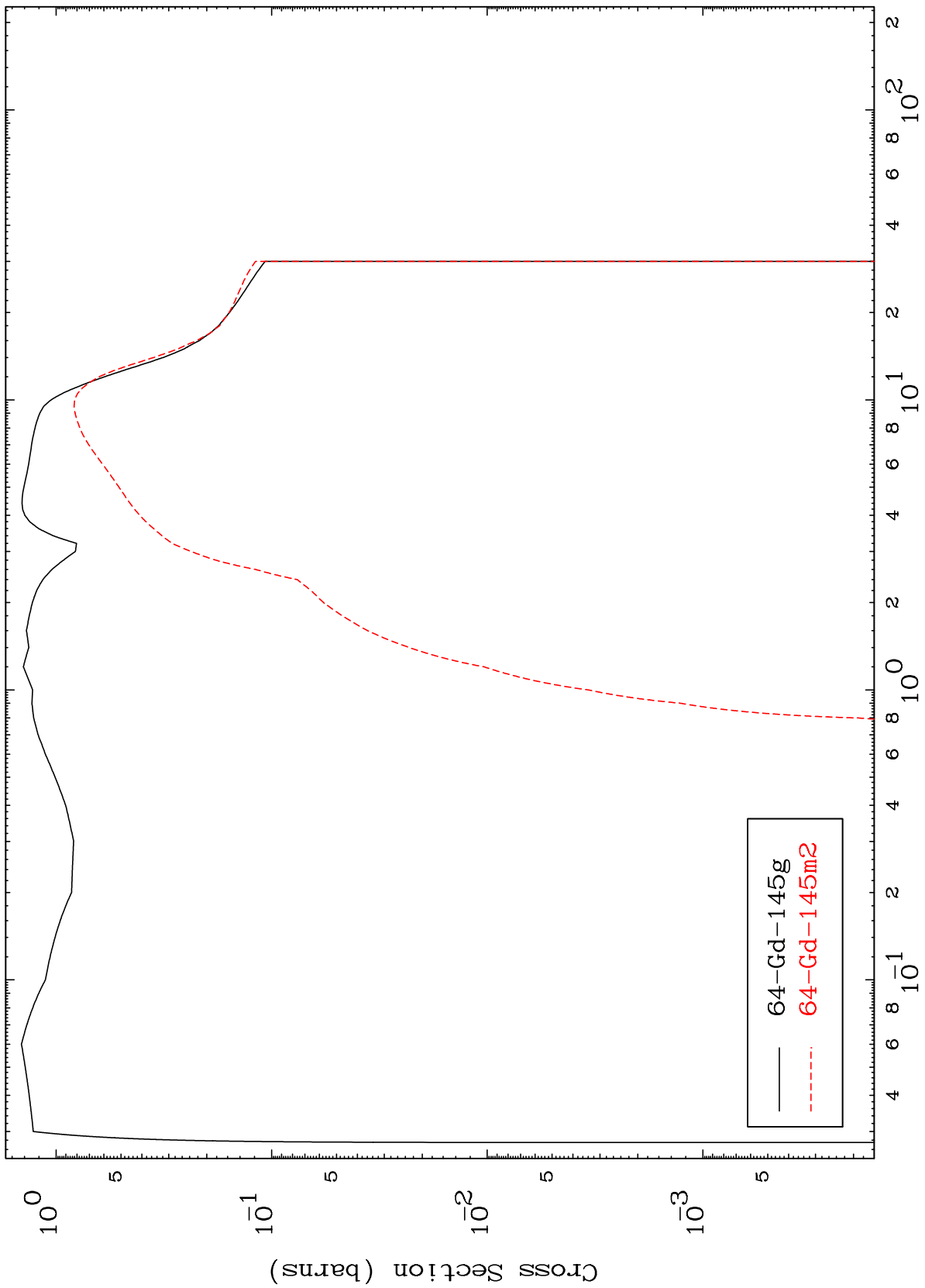




MAT 6404

64-Gd-145

Inelastic  
Radionuclide Production Cross Section



64-Gd-145

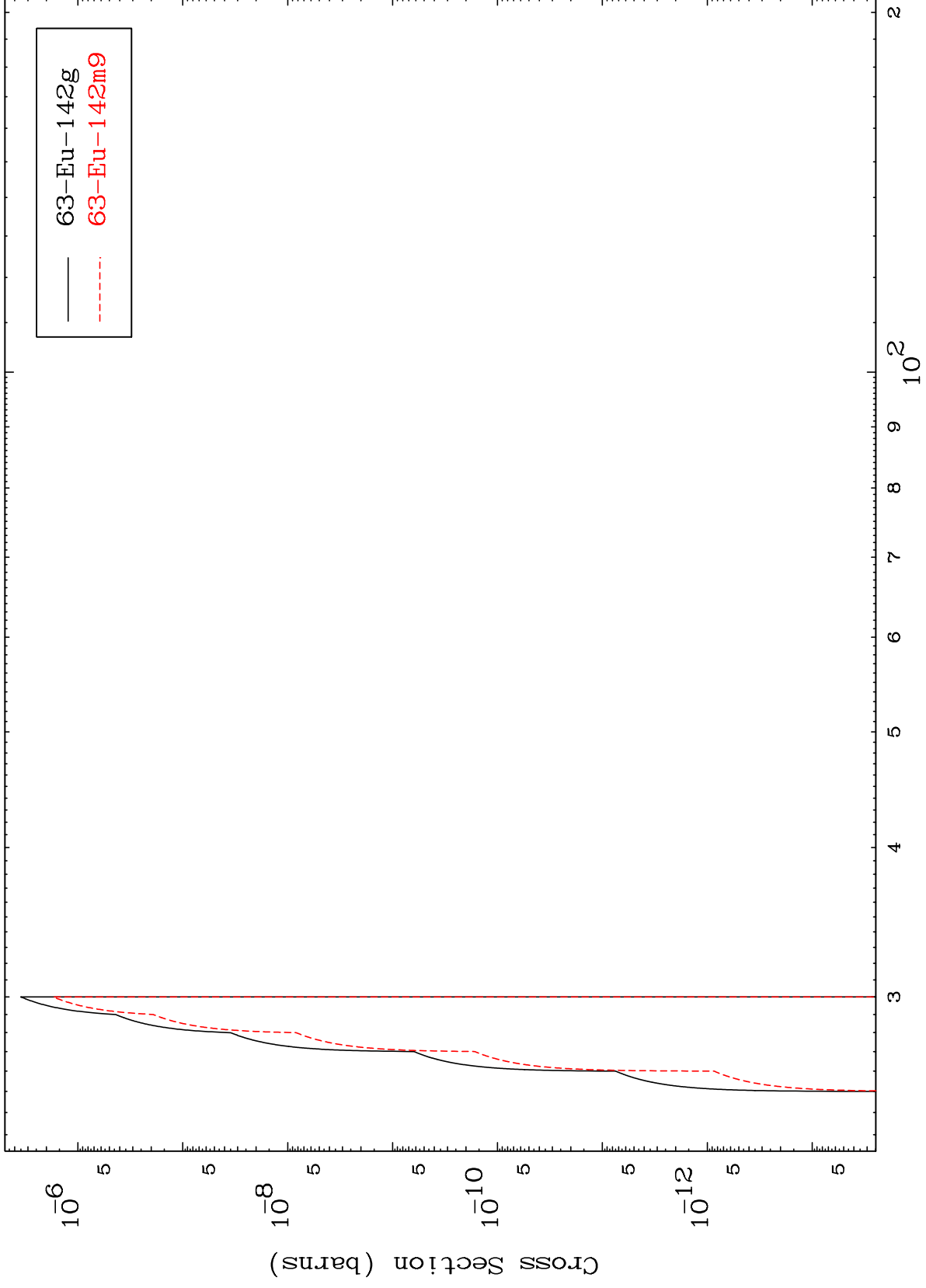
Incident Energy (MeV)

MAT 6404

(n,2n) d

64-Gd-145

Radionuclide Production Cross Section



137

Incident Energy (MeV)

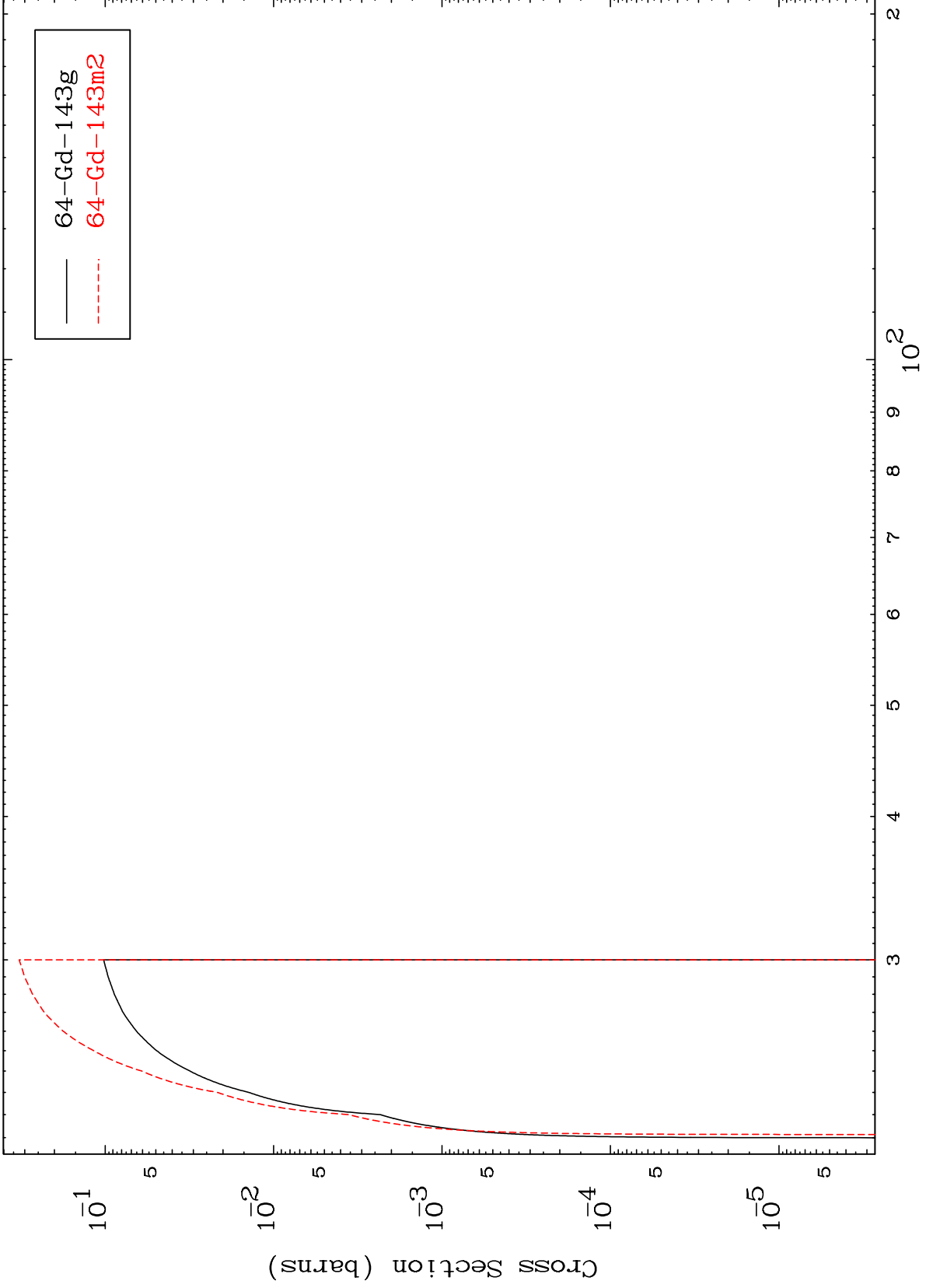
64-Gd-145

MAT 6404

(n,3n)

64-Gd-145

Radionuclide Production Cross Section



138

Incident Energy (MeV)

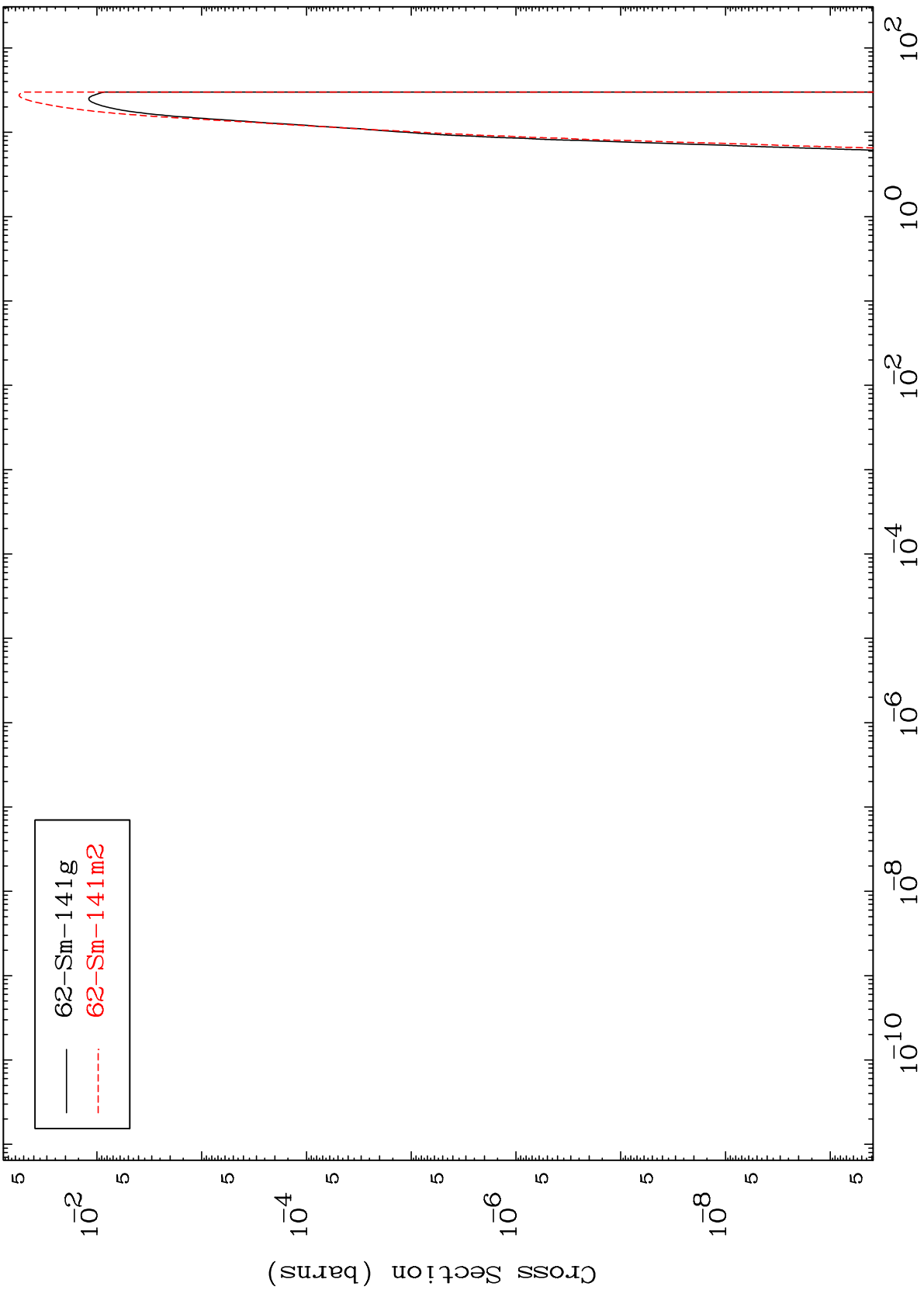
64-Gd-145

MAT 6404

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

64-Gd-145

Radionuclide Production Cross Section



139

Incident Energy (MeV)

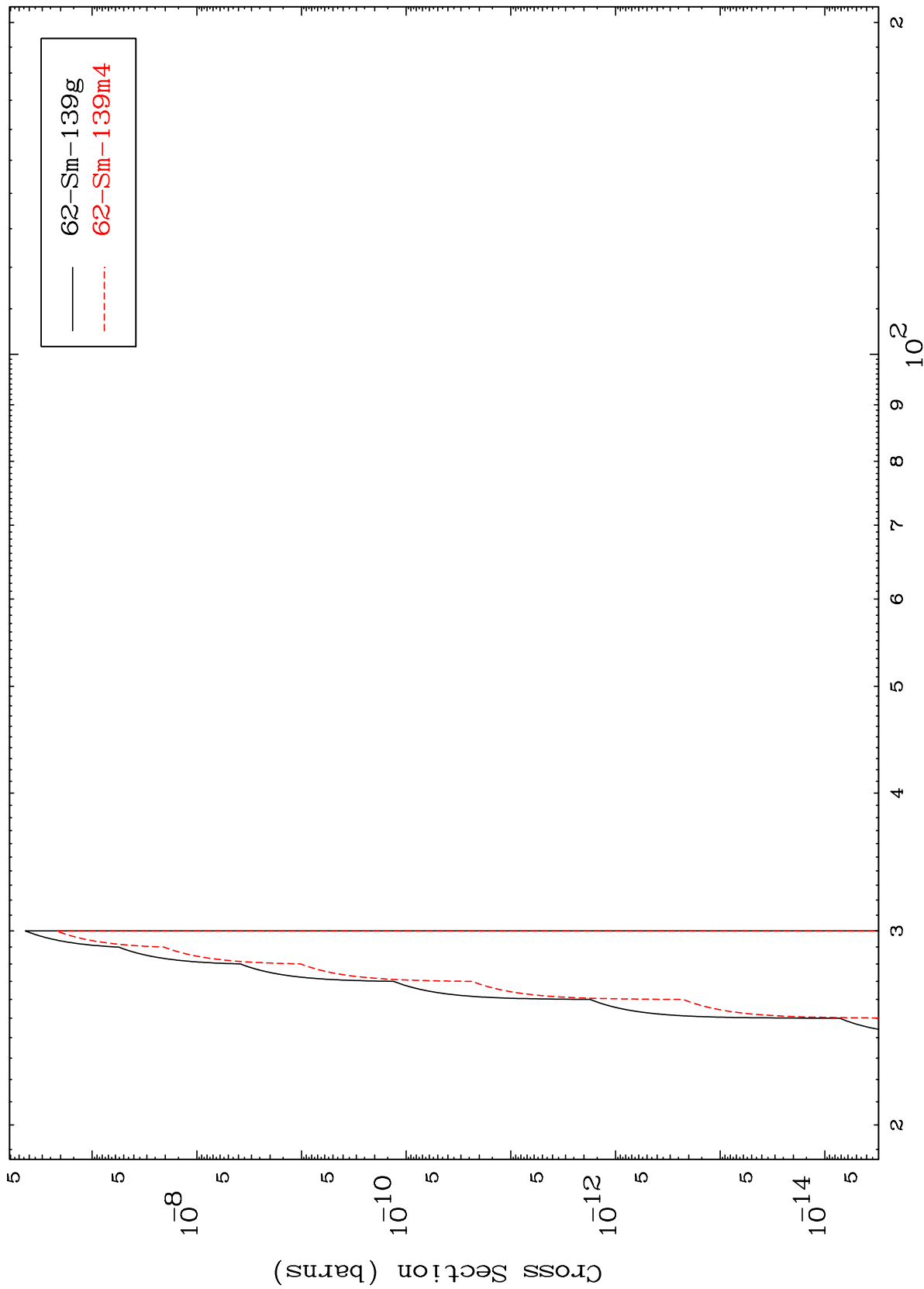
64-Gd-145

MAT 6404

(n,3n)  $\alpha$

64-Gd-145

Radionuclide Production Cross Section



140

Incident Energy (MeV)

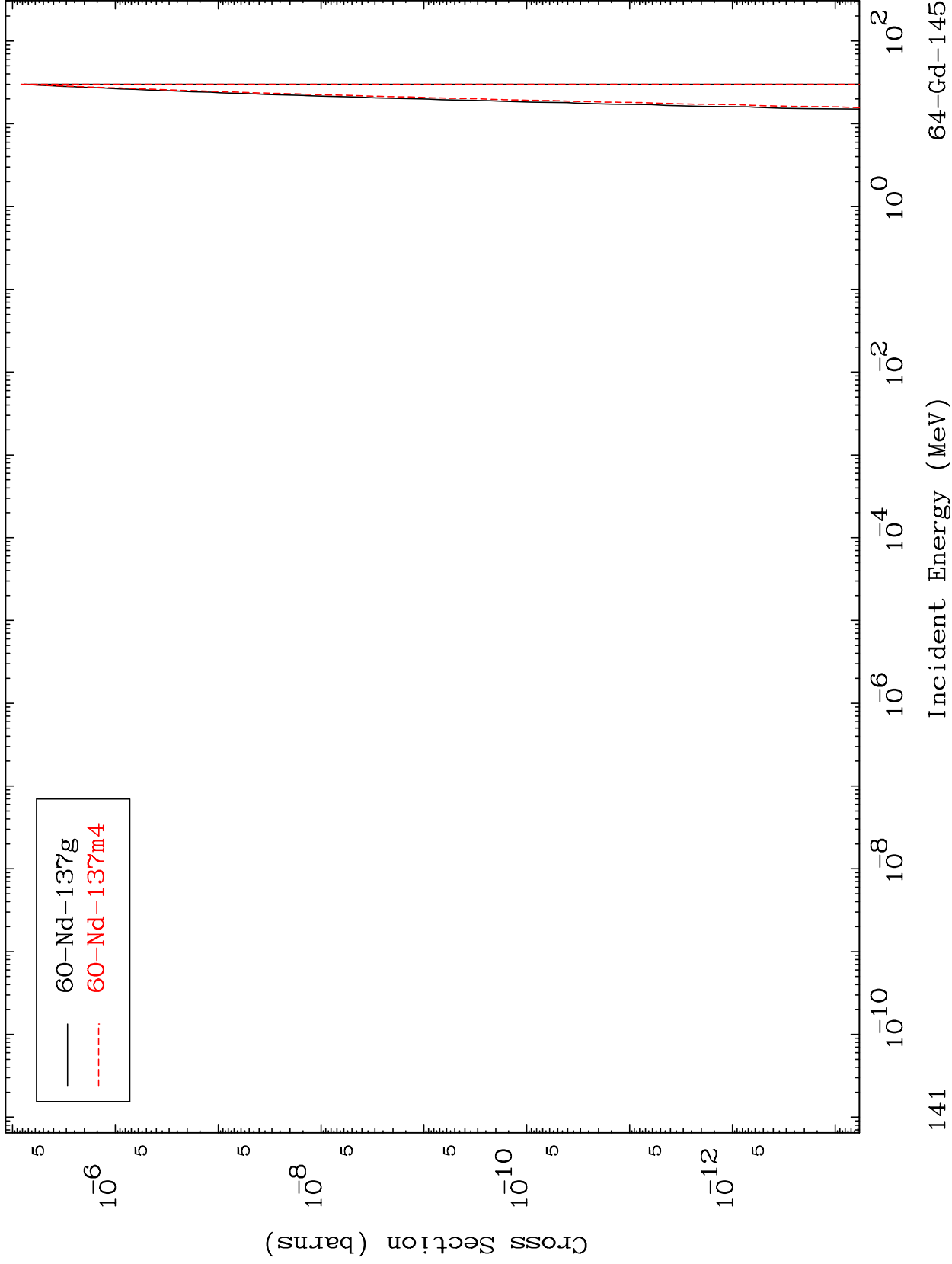
64-Gd-145

MAT 6404

(n,n') 2α

64-Gd-145

Radionuclide Production Cross Section



141

Incident Energy (MeV)

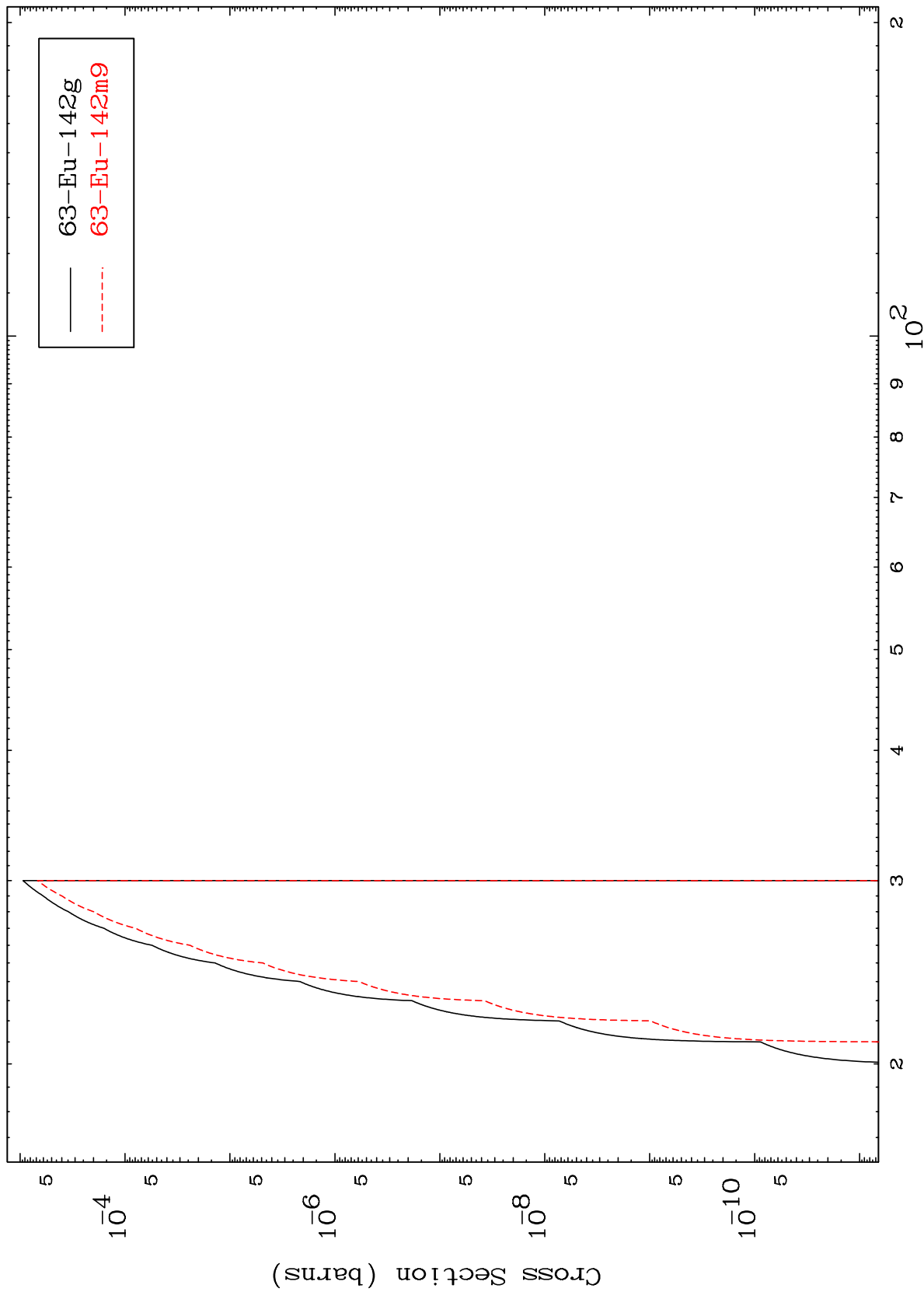
64-Gd-145

MAT 6404

(n,n') t

64-Gd-145

Radionuclide Production Cross Section



142

Incident Energy (MeV)

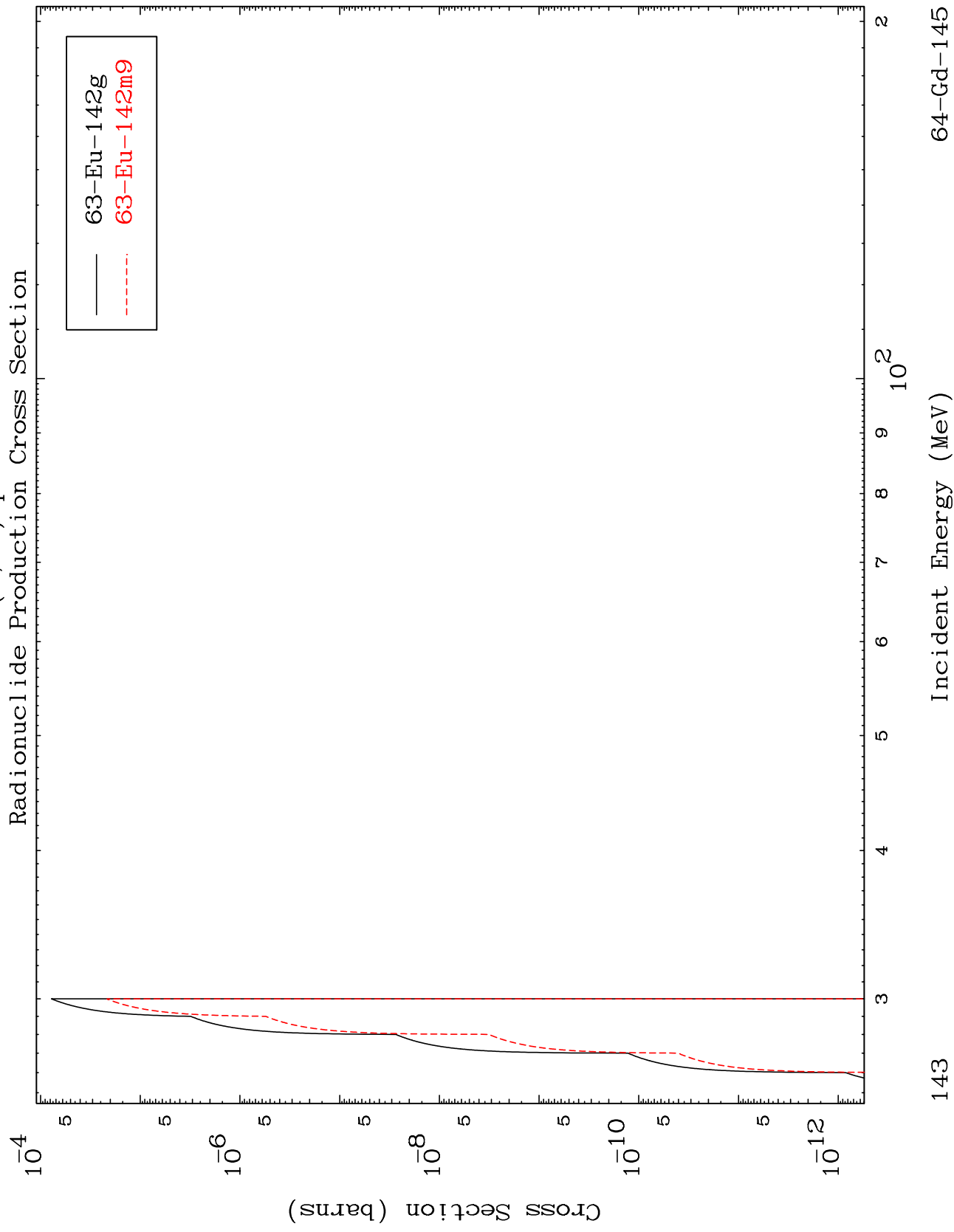
64-Gd-145

MAT 6404

(n,3n) p

64-Gd-145

Radionuclide Production Cross Section



143

64-Gd-145

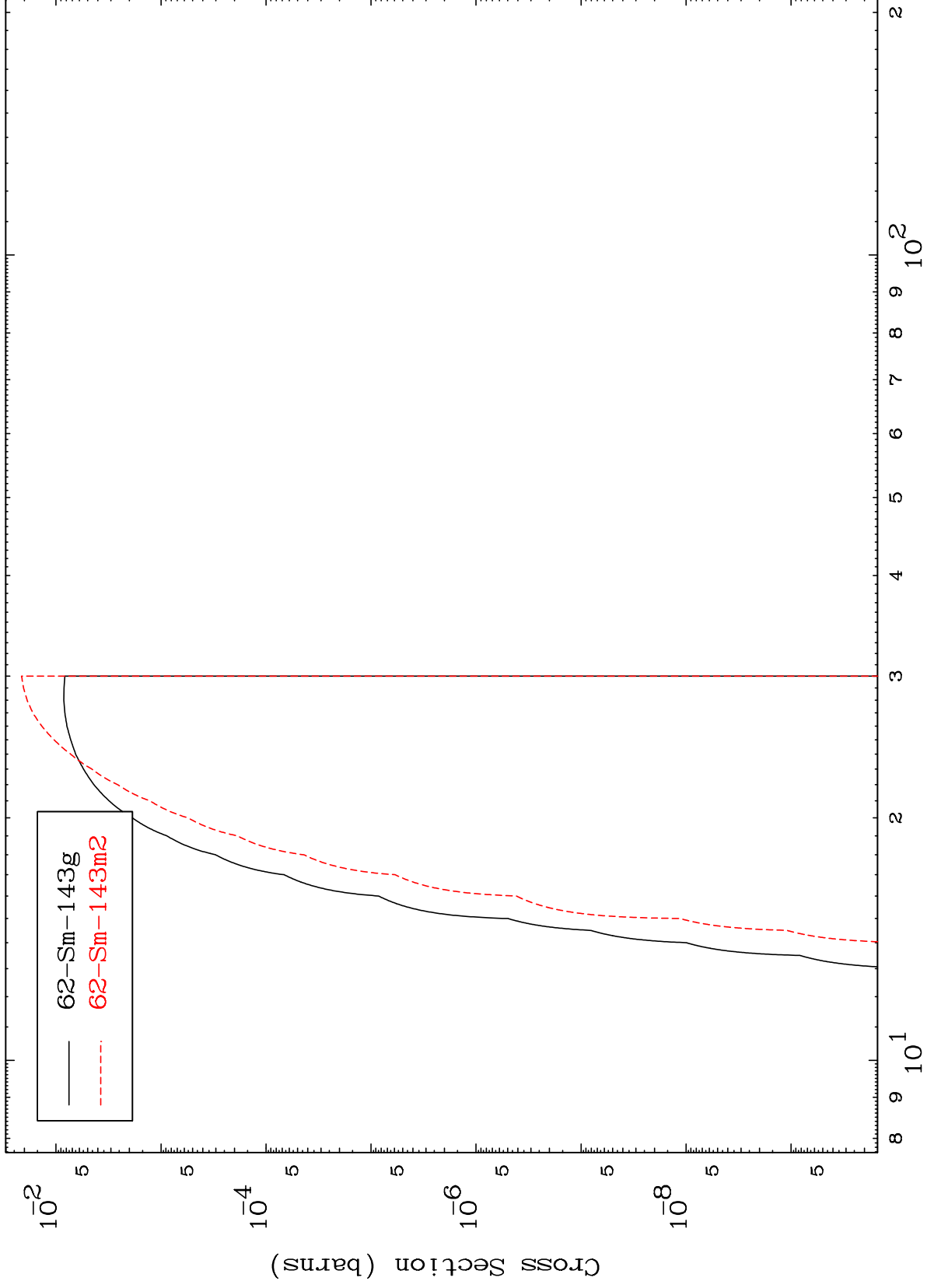


MAT 6404

(n,2n) p

64-Gd-145

Radionuclide Production Cross Section



144

Incident Energy (MeV)

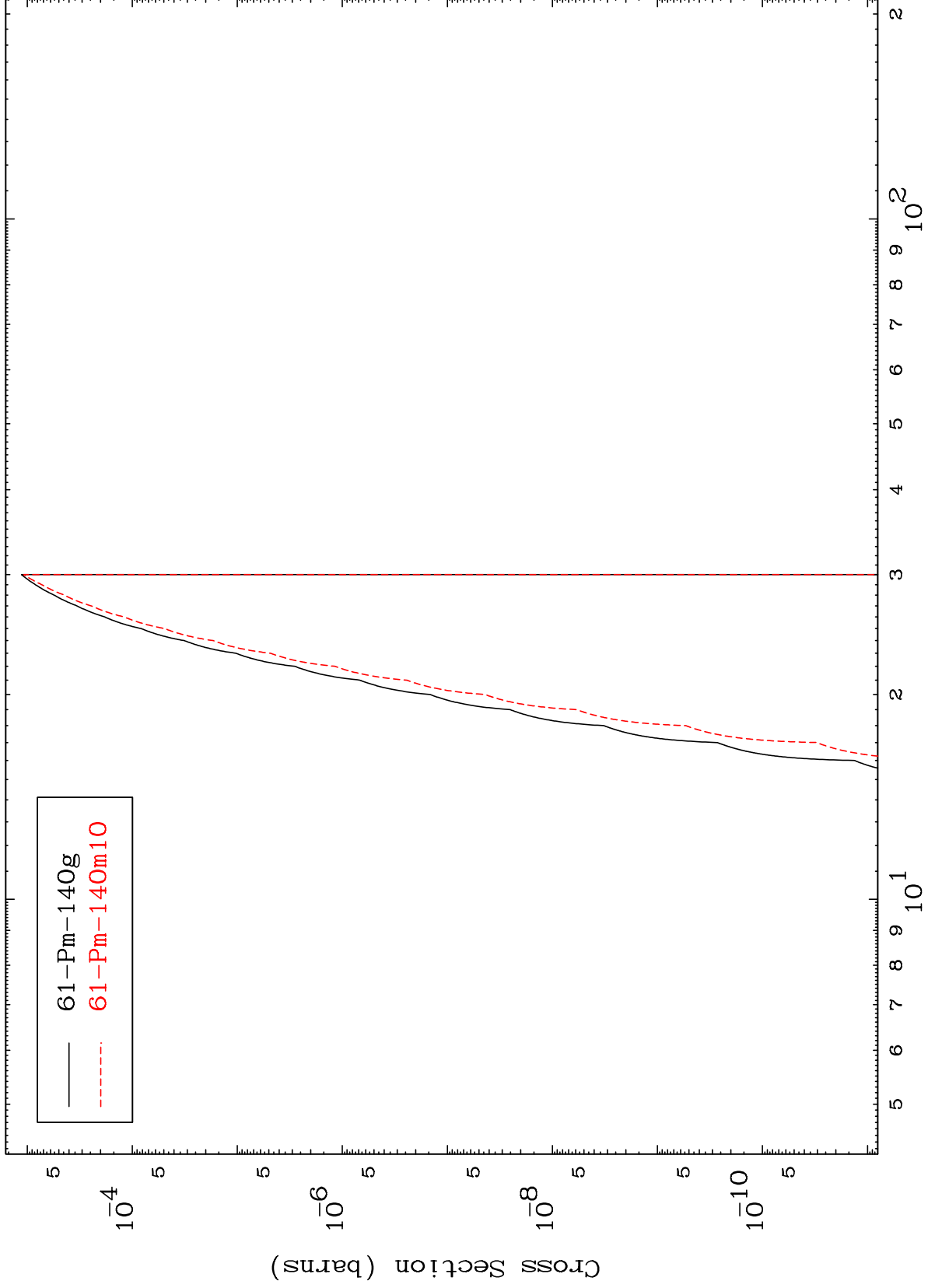
64-Gd-145

MAT 6404

(n,n') p  $\alpha$

64-Gd-145

Radionuclide Production Cross Section

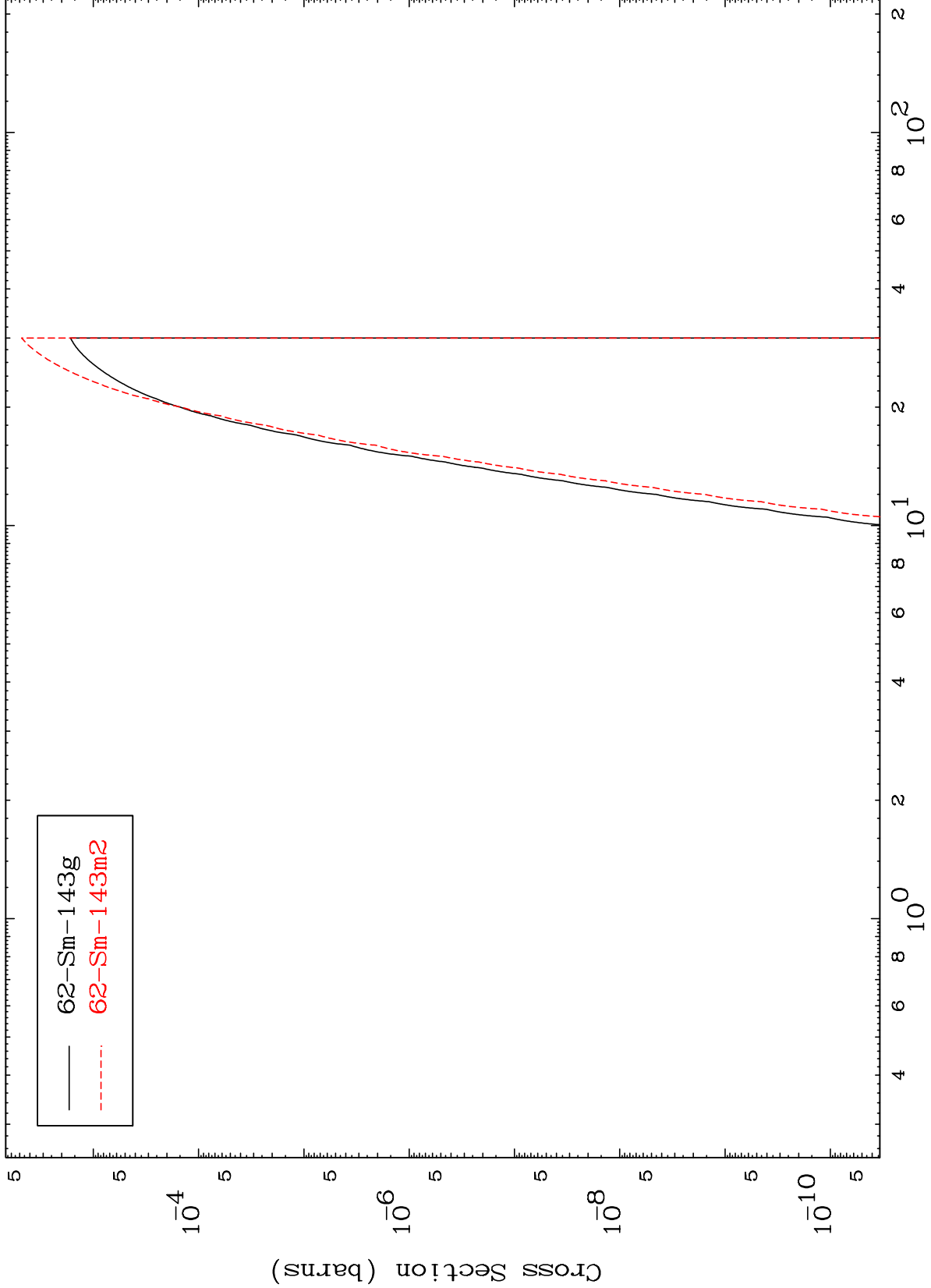


MAT 6404

(n,He-3)

64-Gd-145

Radionuclide Production Cross Section



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

146

Incident Energy (MeV)

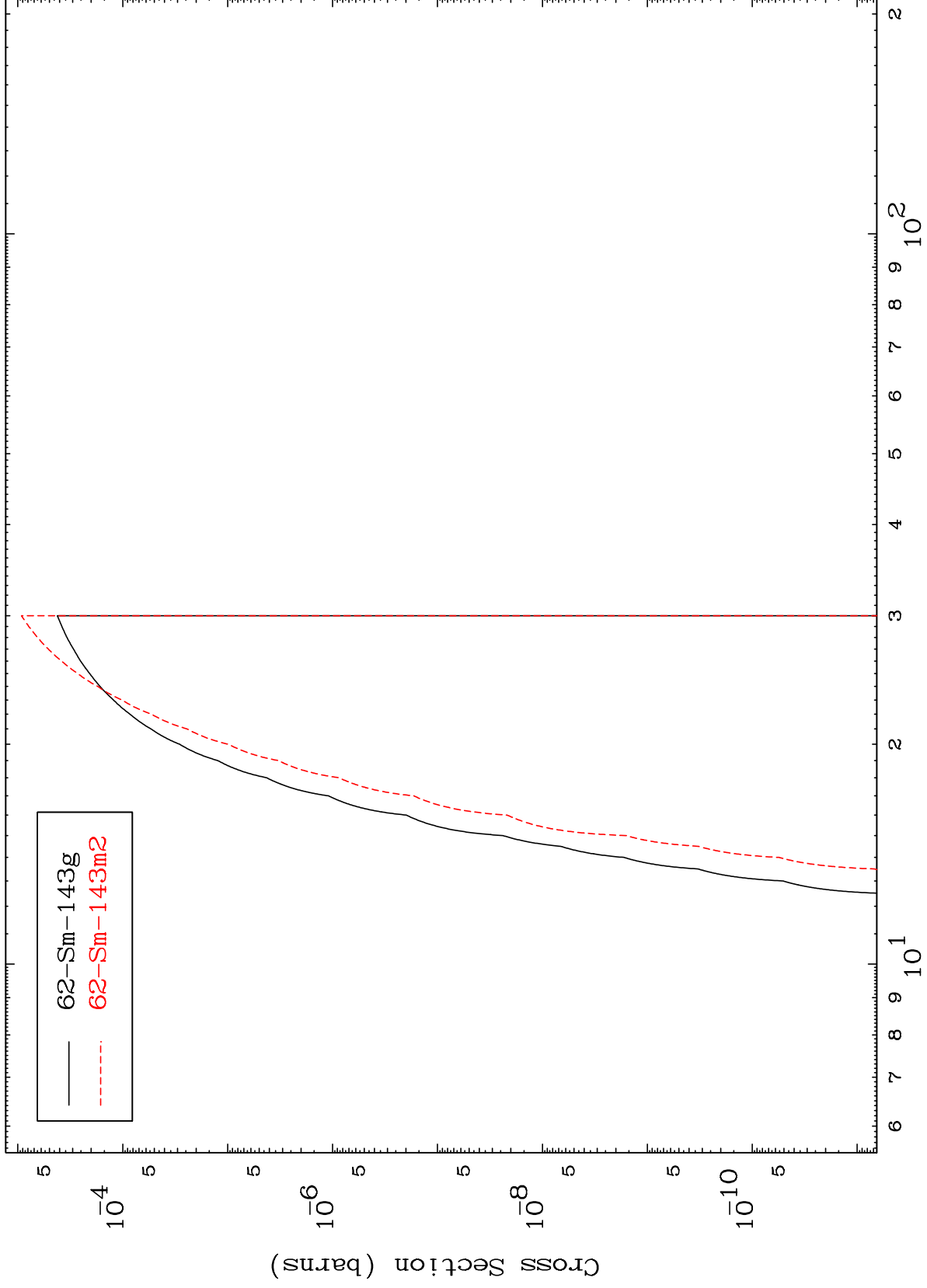
64-Gd-145

MAT 6404

(n,p) d

64-Gd-145

Radionuclide Production Cross Section



147

Incident Energy (MeV)

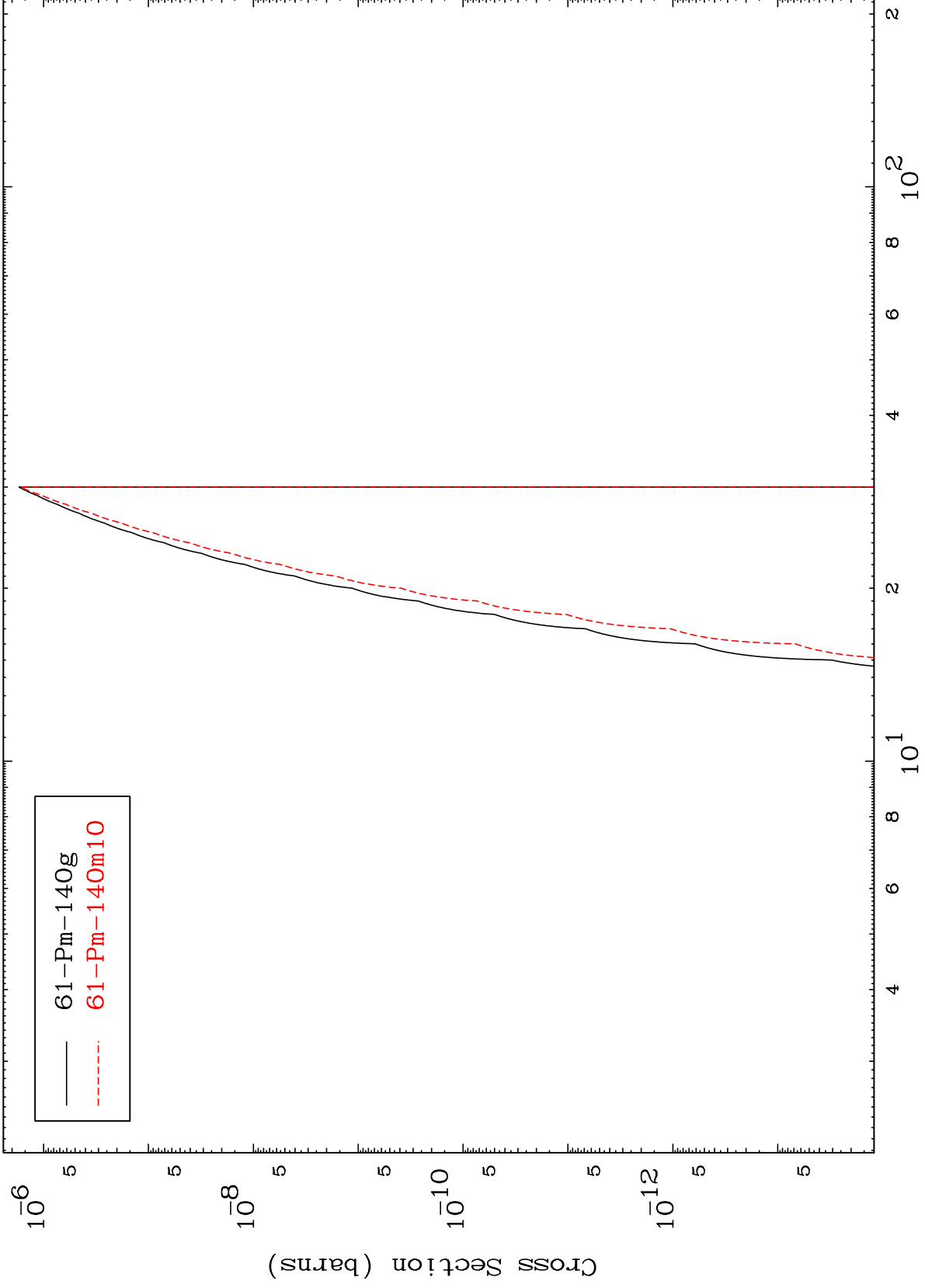
64-Gd-145

MAT 6404

(n,d)  $\alpha$

64-Gd-145

Radionuclide Production Cross Section



148

Incident Energy (MeV)

64-Gd-145