

Program EVALPLOT
(Version 2018-1)

by

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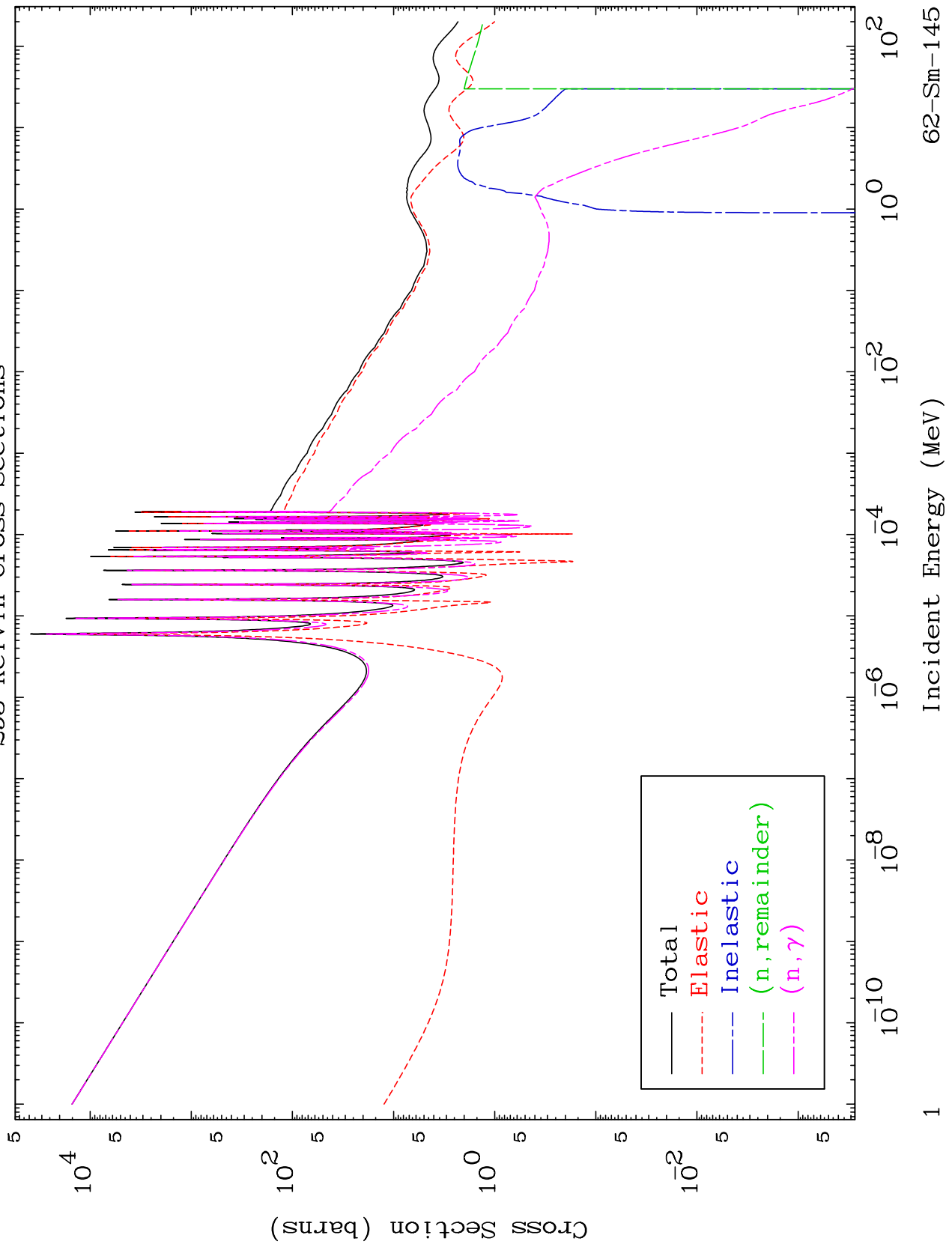
Press Mouse Button to Start

MAT 6228

Major

293 Kelvin Cross Sections

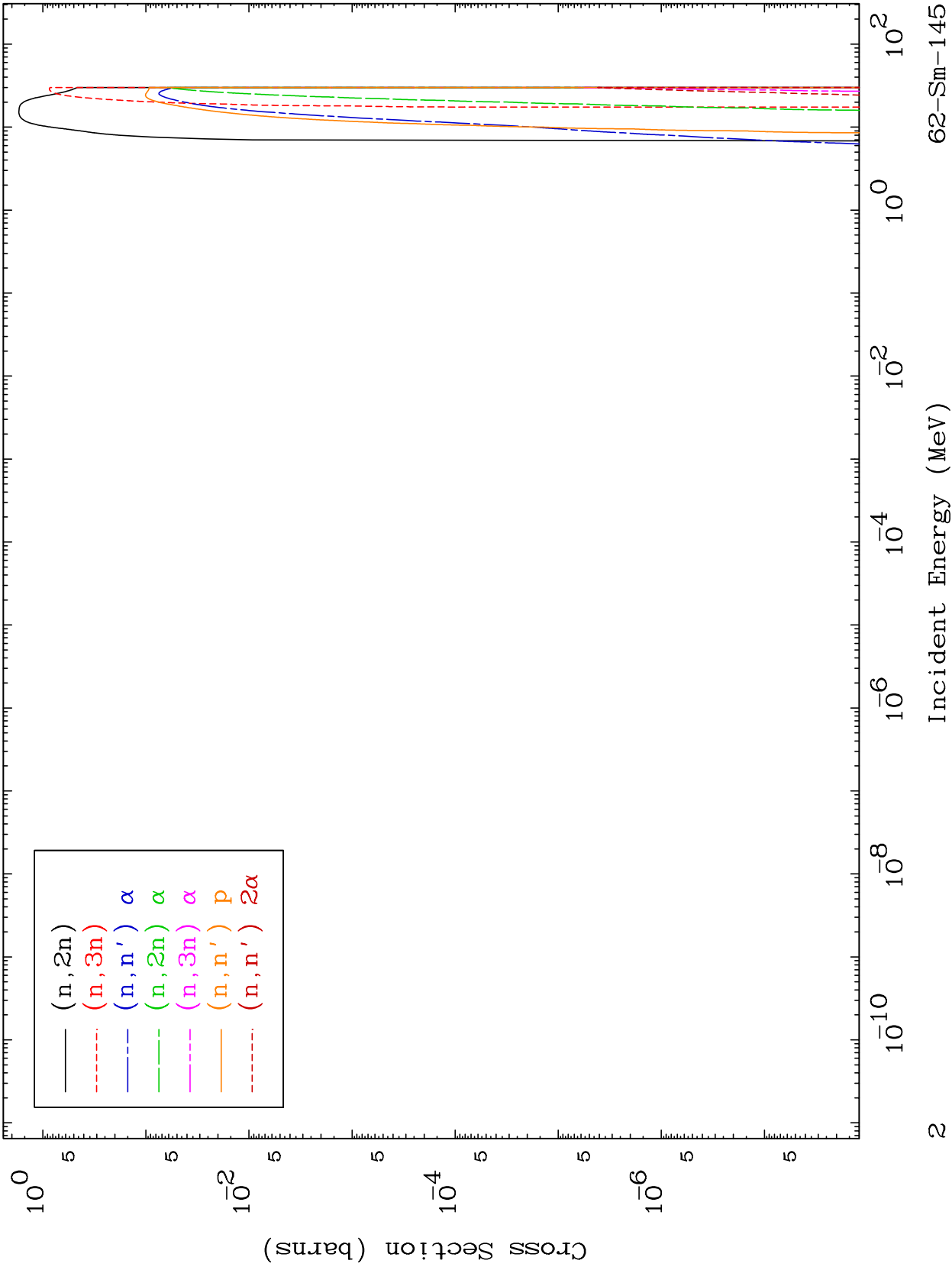
62-Sm-145



MAT 6228

Neutron Production
293 Kelvin Cross Sections

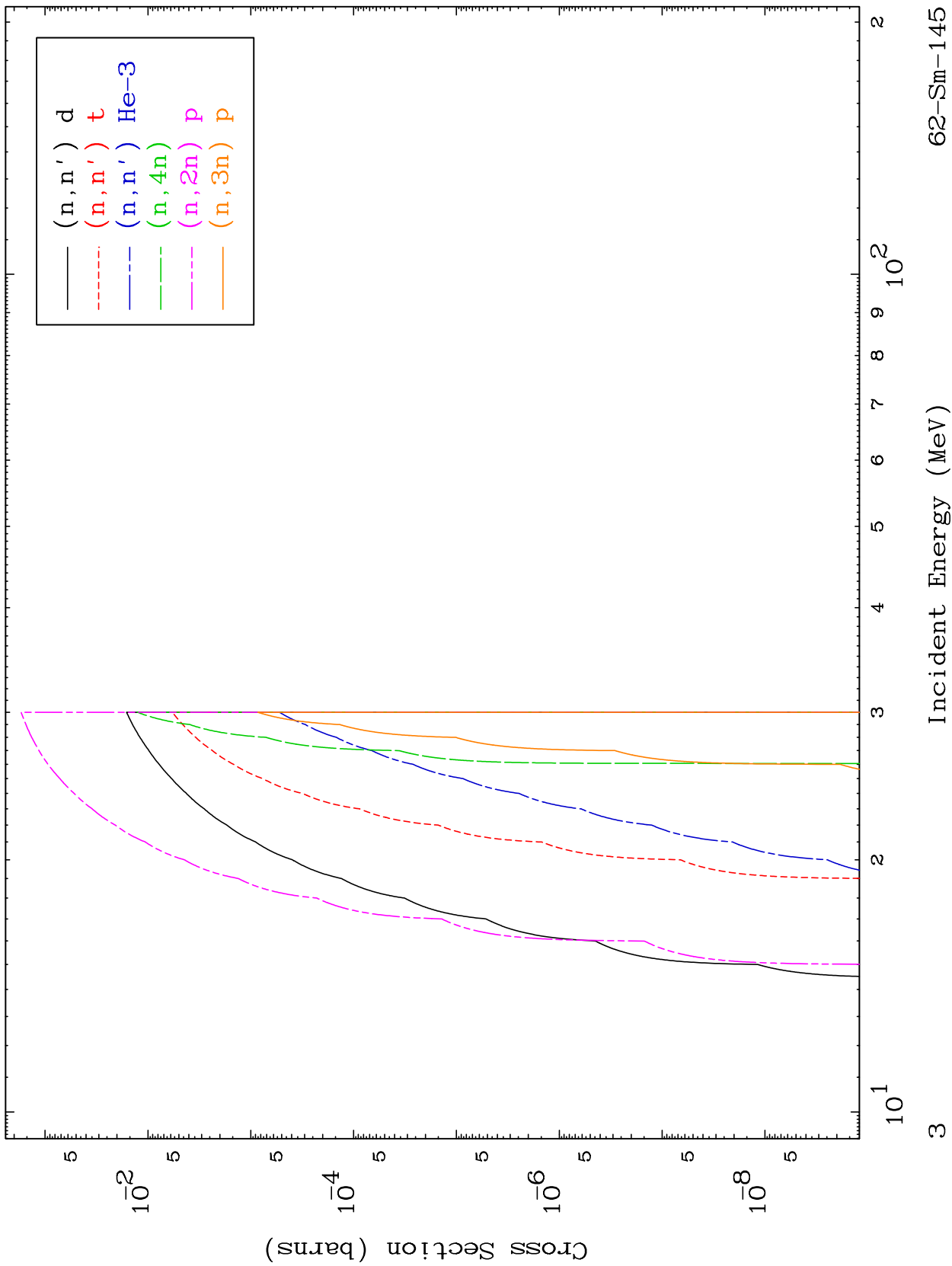
62-Sm-145



MAT 6228

Neutron Production
293 Kelvin Cross Sections

62-Sm-145

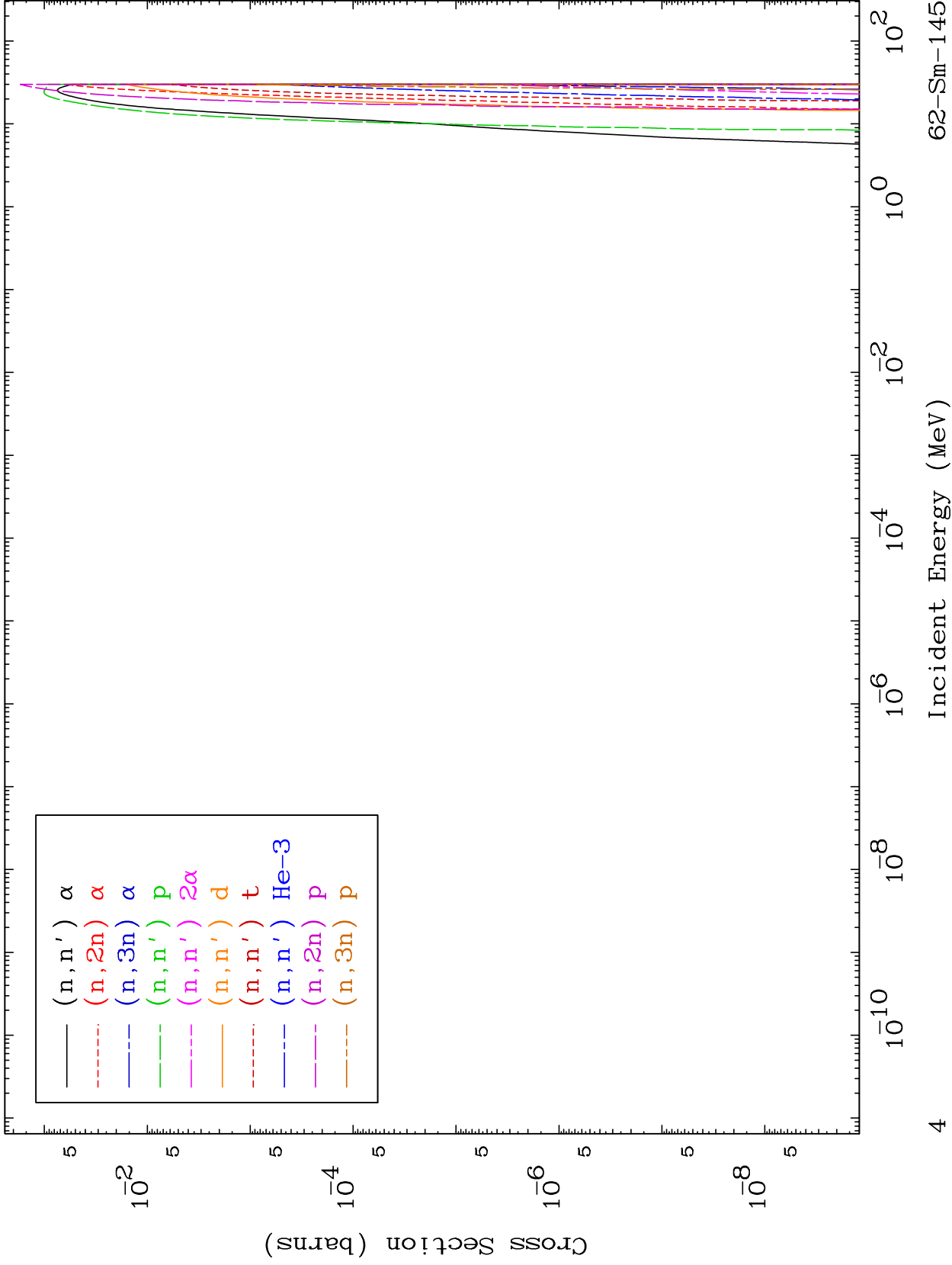


62-Sm-145

MAT 6228

Charged Particle
293 Kelvin Cross Sections

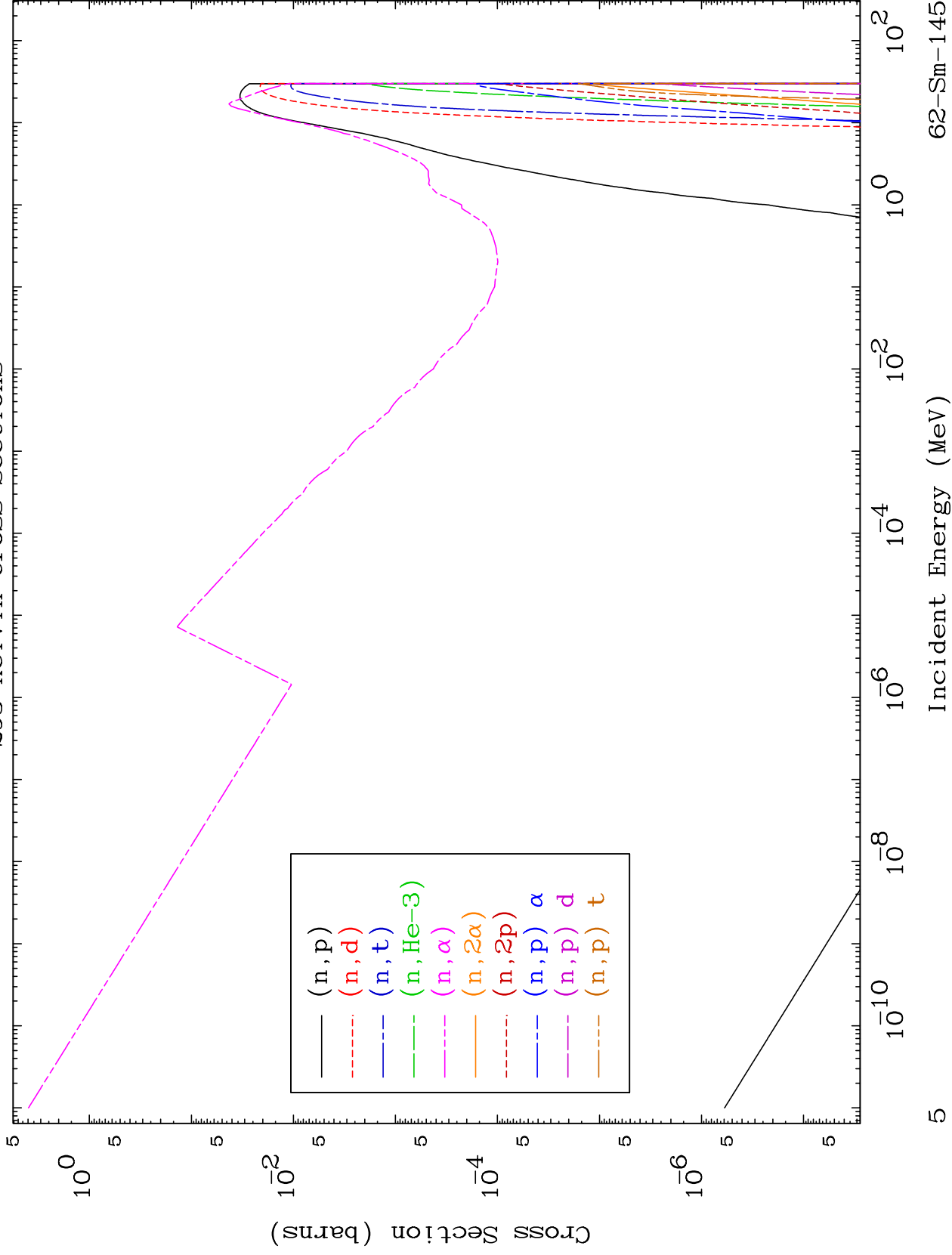
62-Sm-145



MAT 6228

Charged Particle
293 Kelvin Cross Sections

62-Sm-145



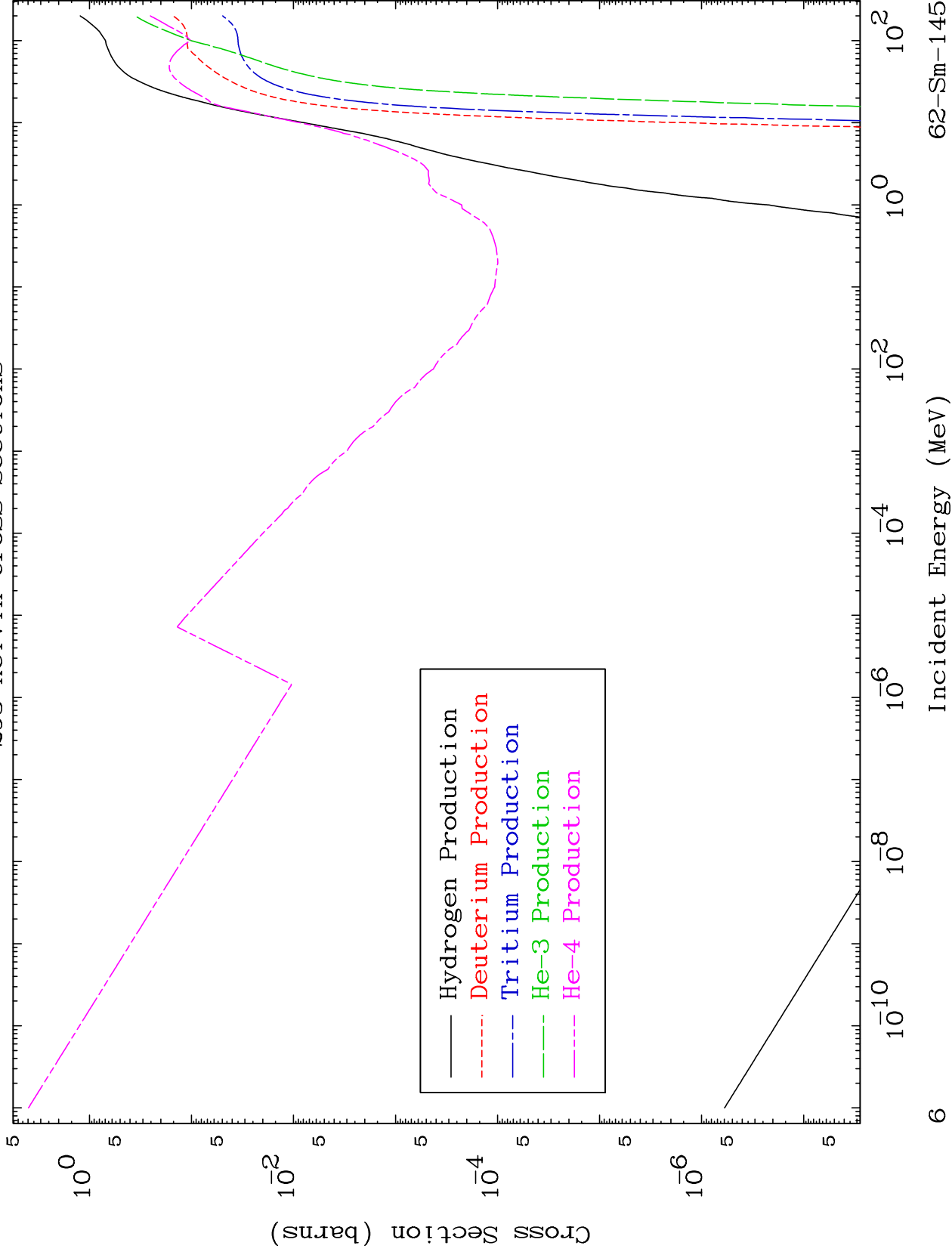
5

62-Sm-145

MAT 6228

Particle Production
293 Kelvin Cross Sections

62-Sm-145

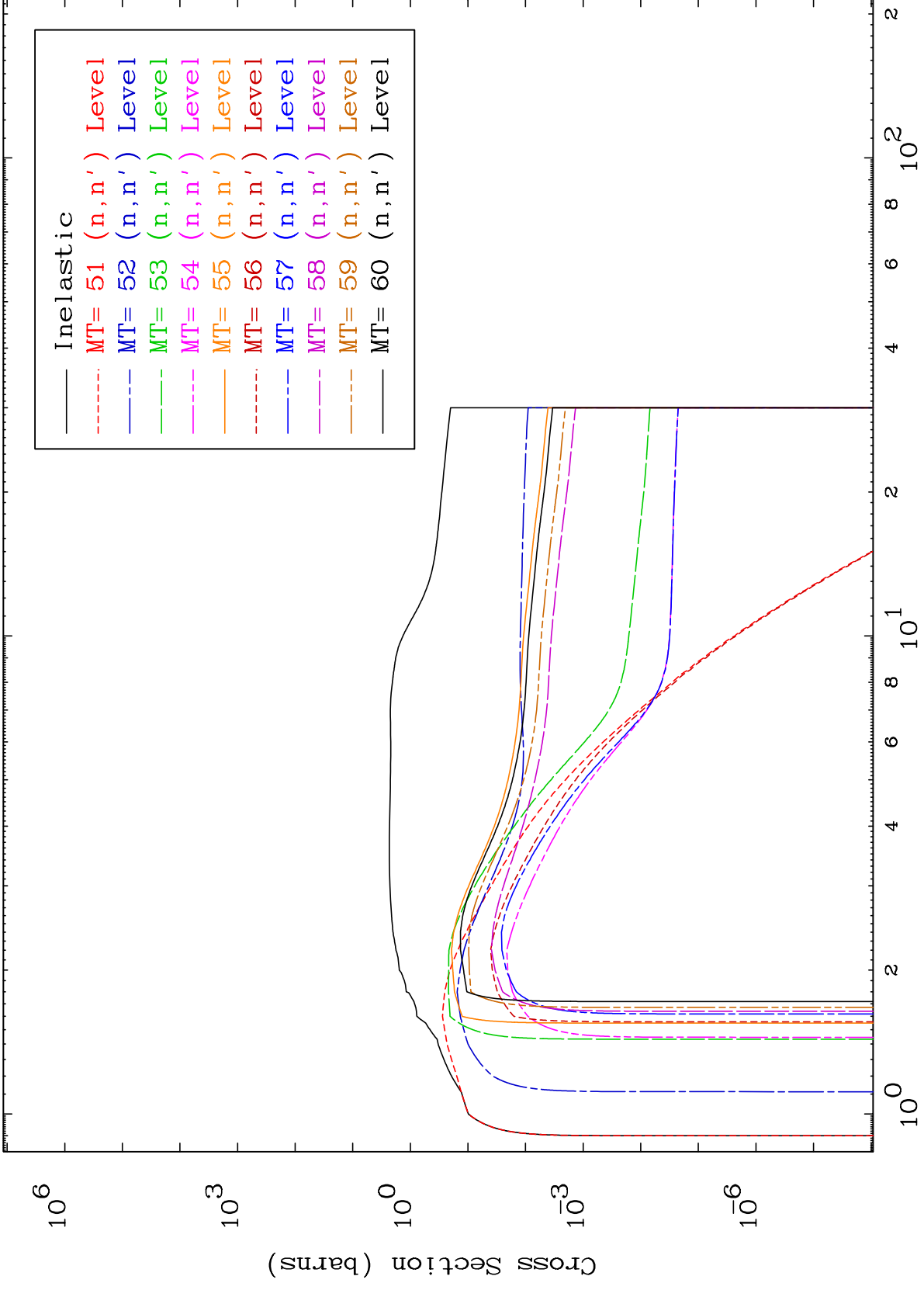


MAT 6228

(n,n') Level

62-Sm-145

293 Kelvin Cross Sections



Incident Energy (MeV)

62-Sm-145

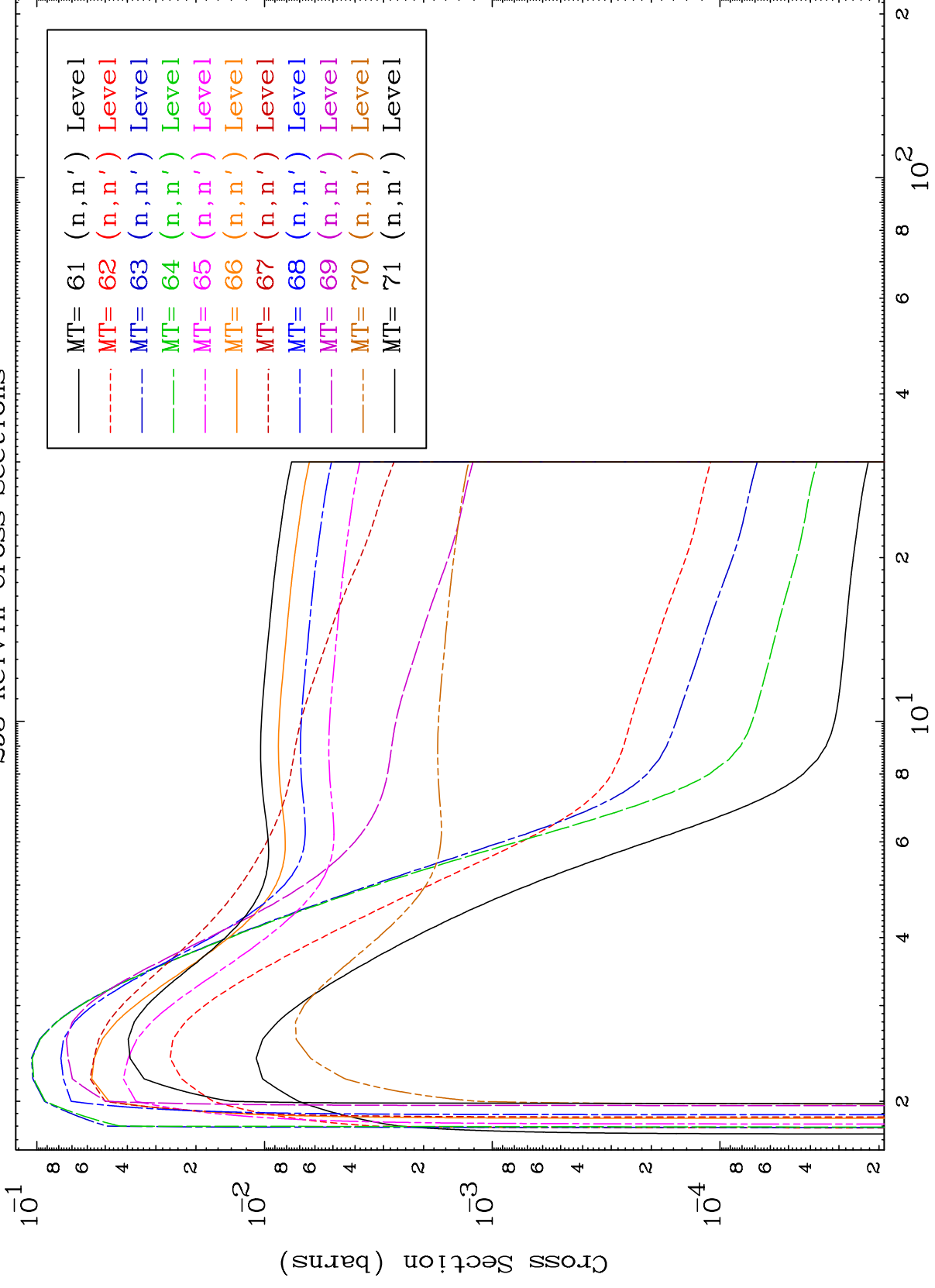
7

MAT 6228

(n,n') Level

62-Sm-145

293 Kelvin Cross Sections



8

Incident Energy (MeV)

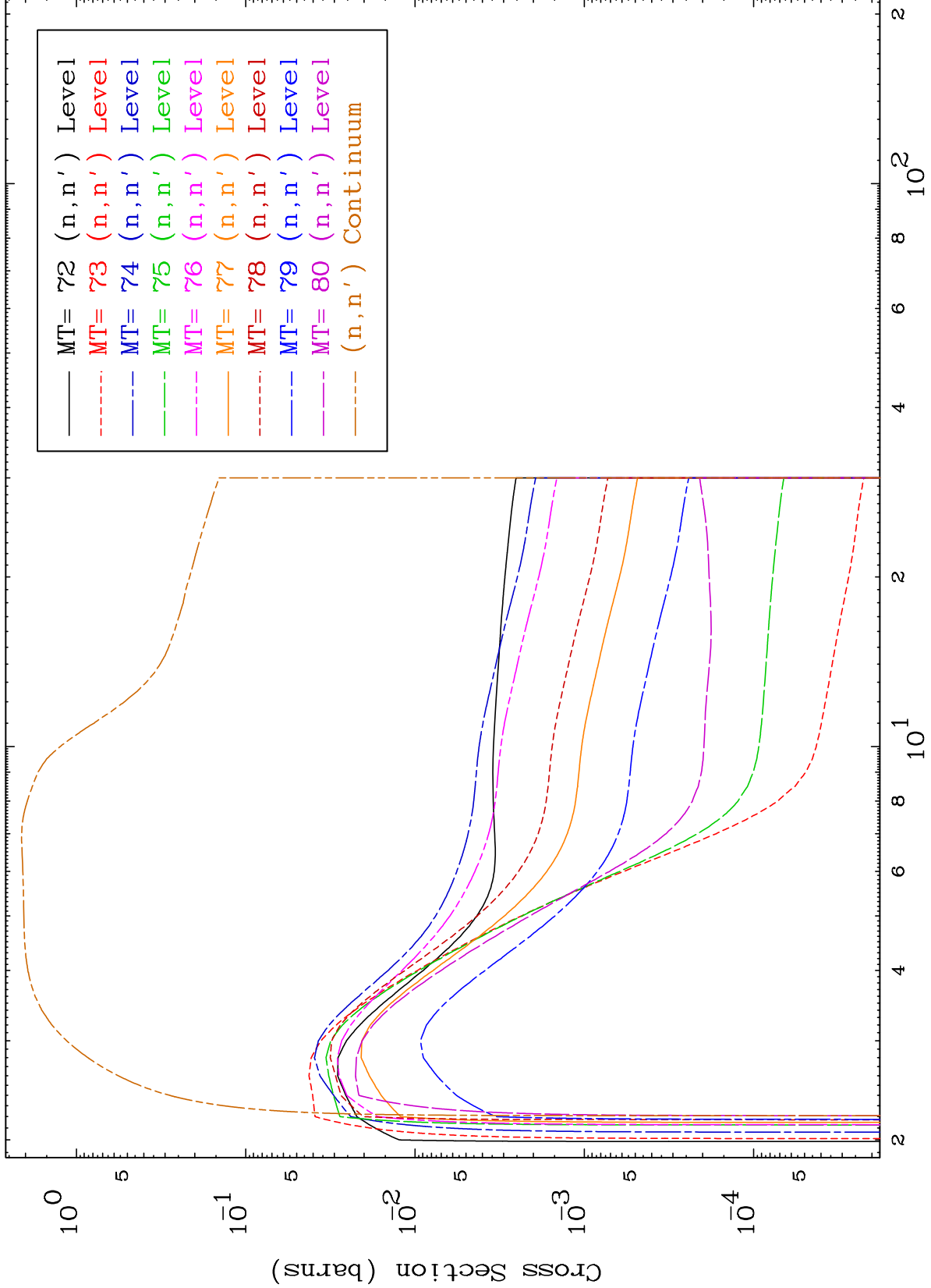
62-Sm-145

MAT 6228

(n,n') Level

62-Sm-145

293 Kelvin Cross Sections



9

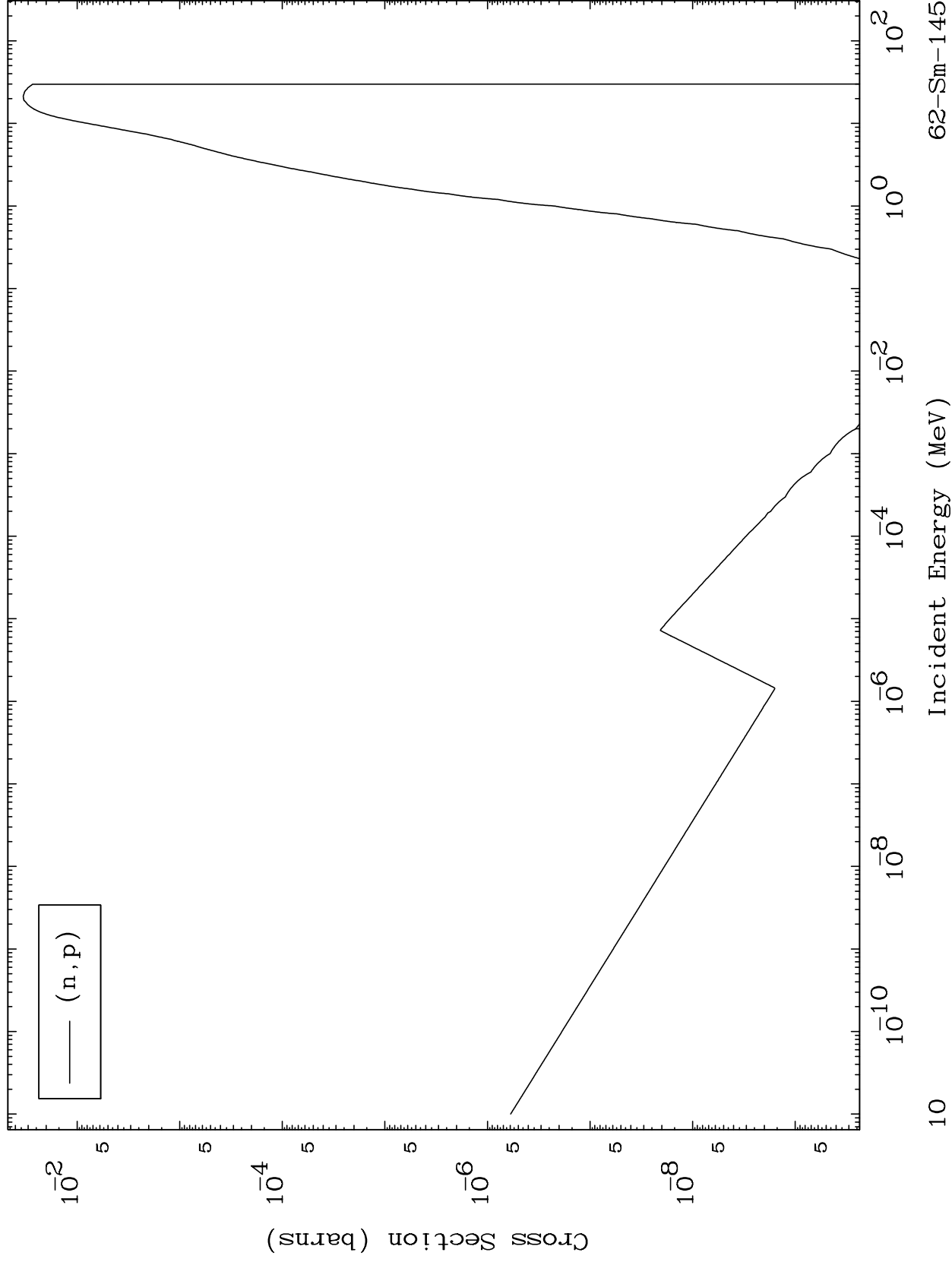
Incident Energy (MeV)

62-Sm-145

MAT 6228

(n,p) Levels
293 Kelvin Cross Sections

62-Sm-145



(n,p)

10

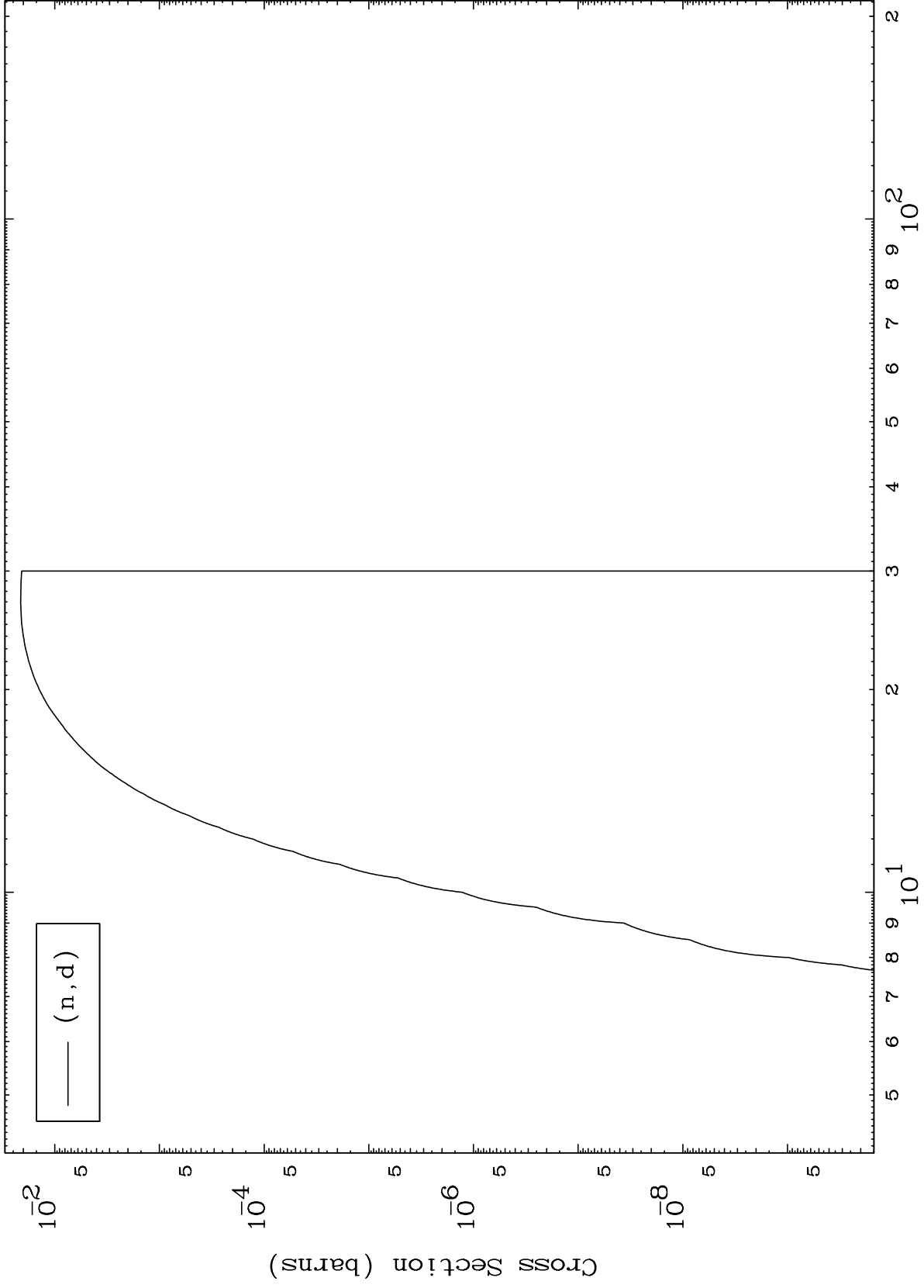
Incident Energy (MeV)

62-Sm-145

MAT 6228

(n,d) Levels
293 Kelvin Cross Sections

62-Sm-145



11

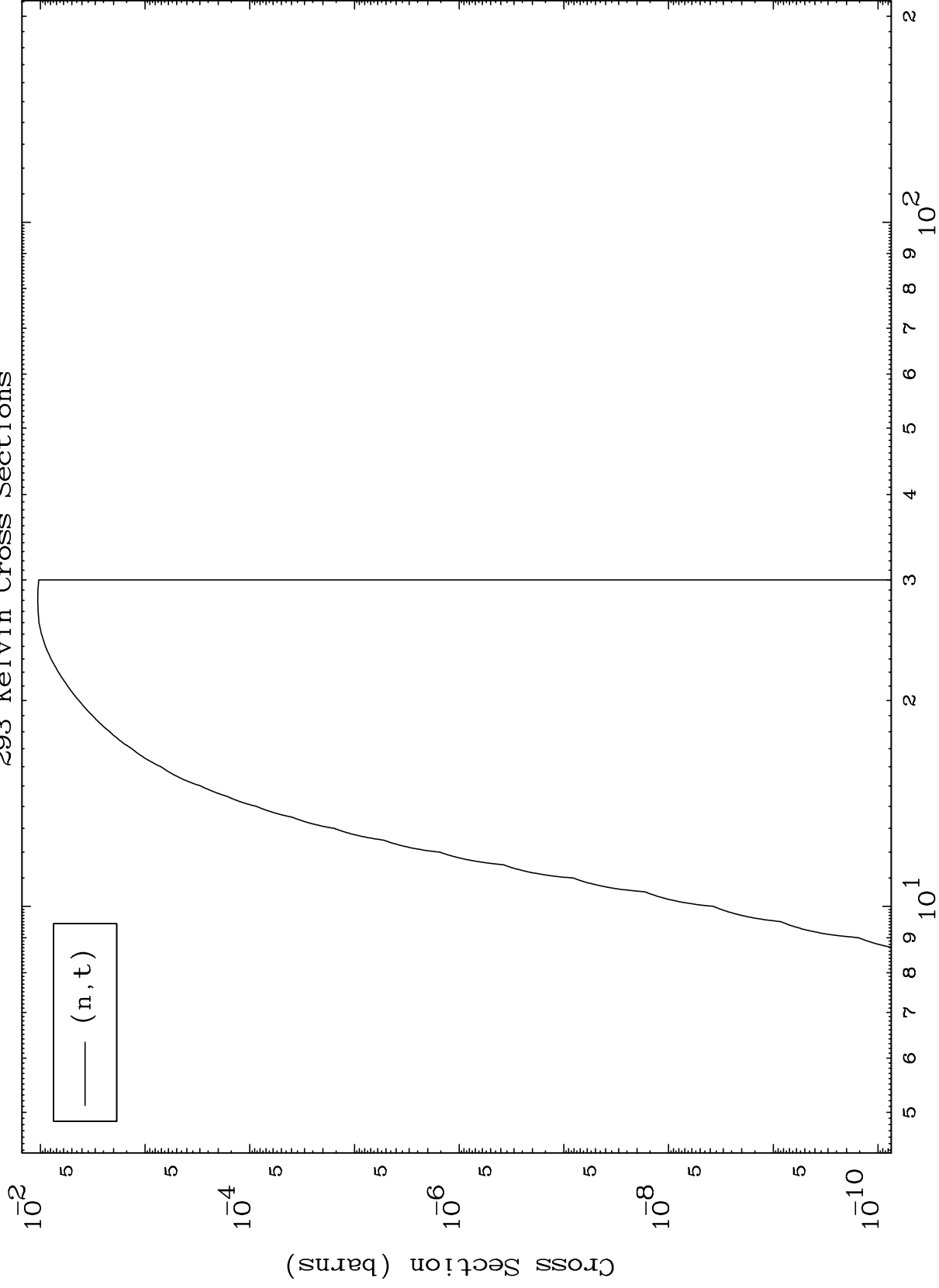
Incident Energy (MeV)

62-Sm-145

MAT 6228

(n,t) Levels
293 Kelvin Cross Sections

62-Sm-145



12

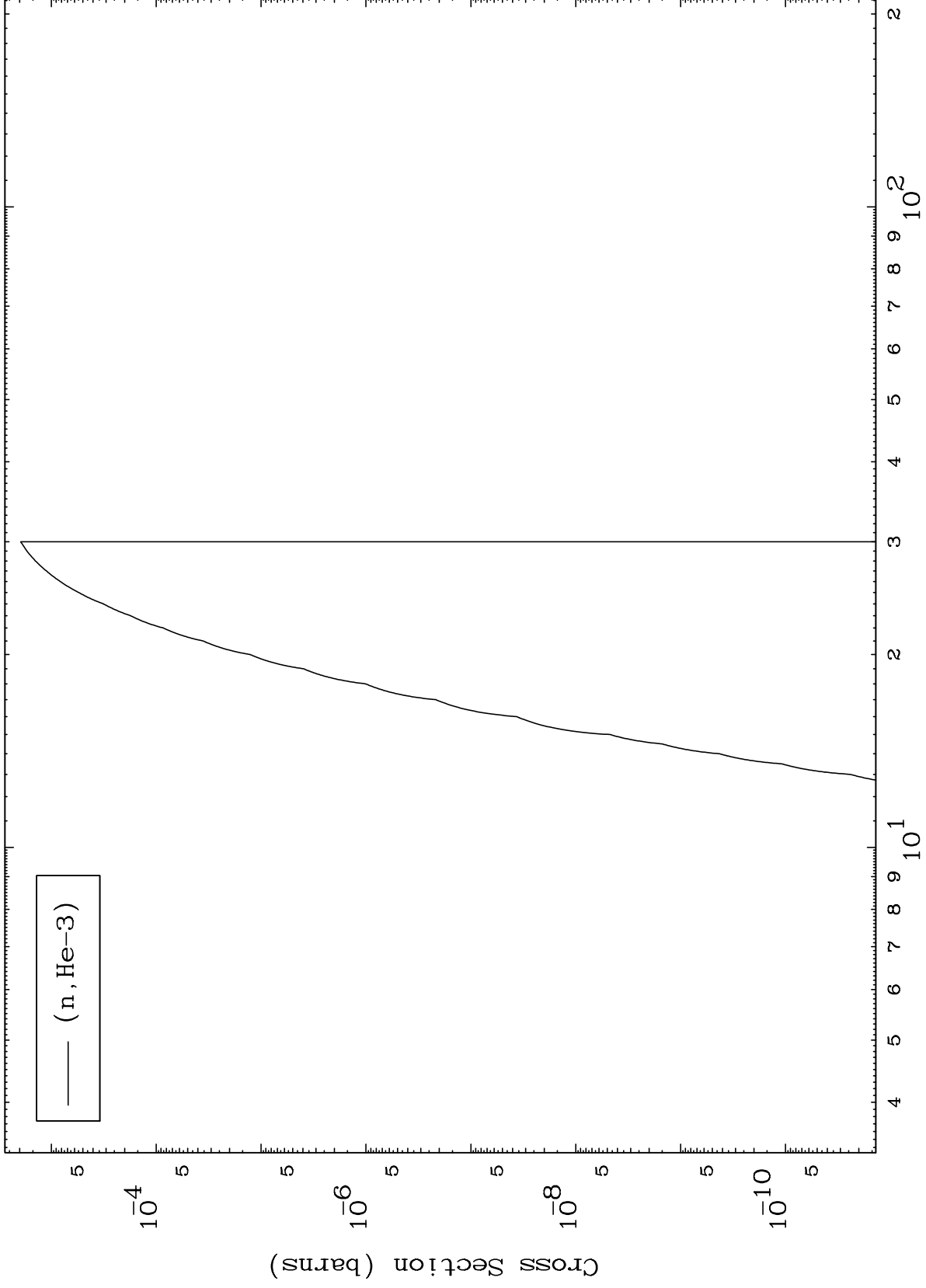
Incident Energy (MeV)

62-Sm-145

MAT 6228

(n,He3) Levels
293 Kelvin Cross Sections

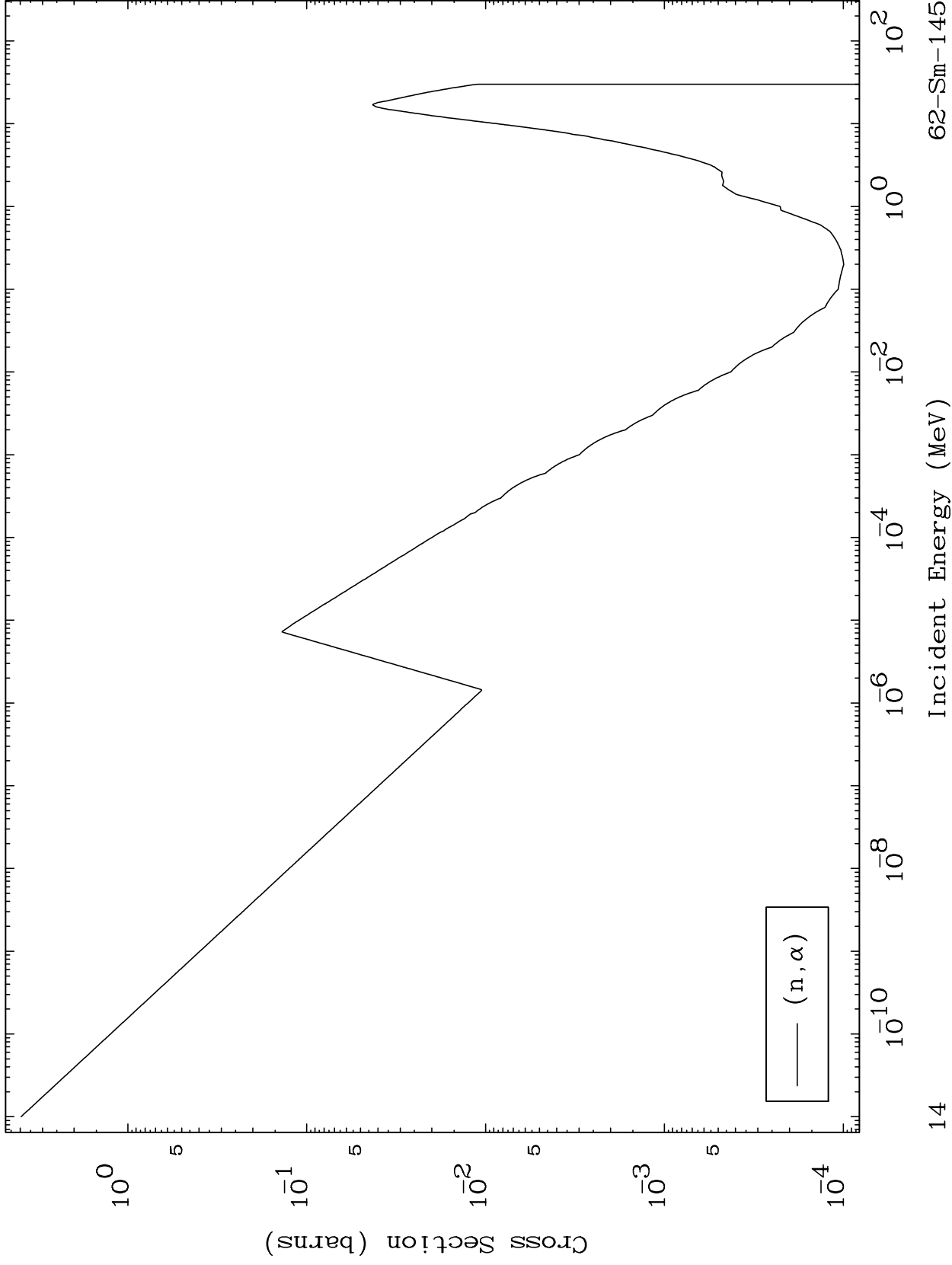
62-Sm-145

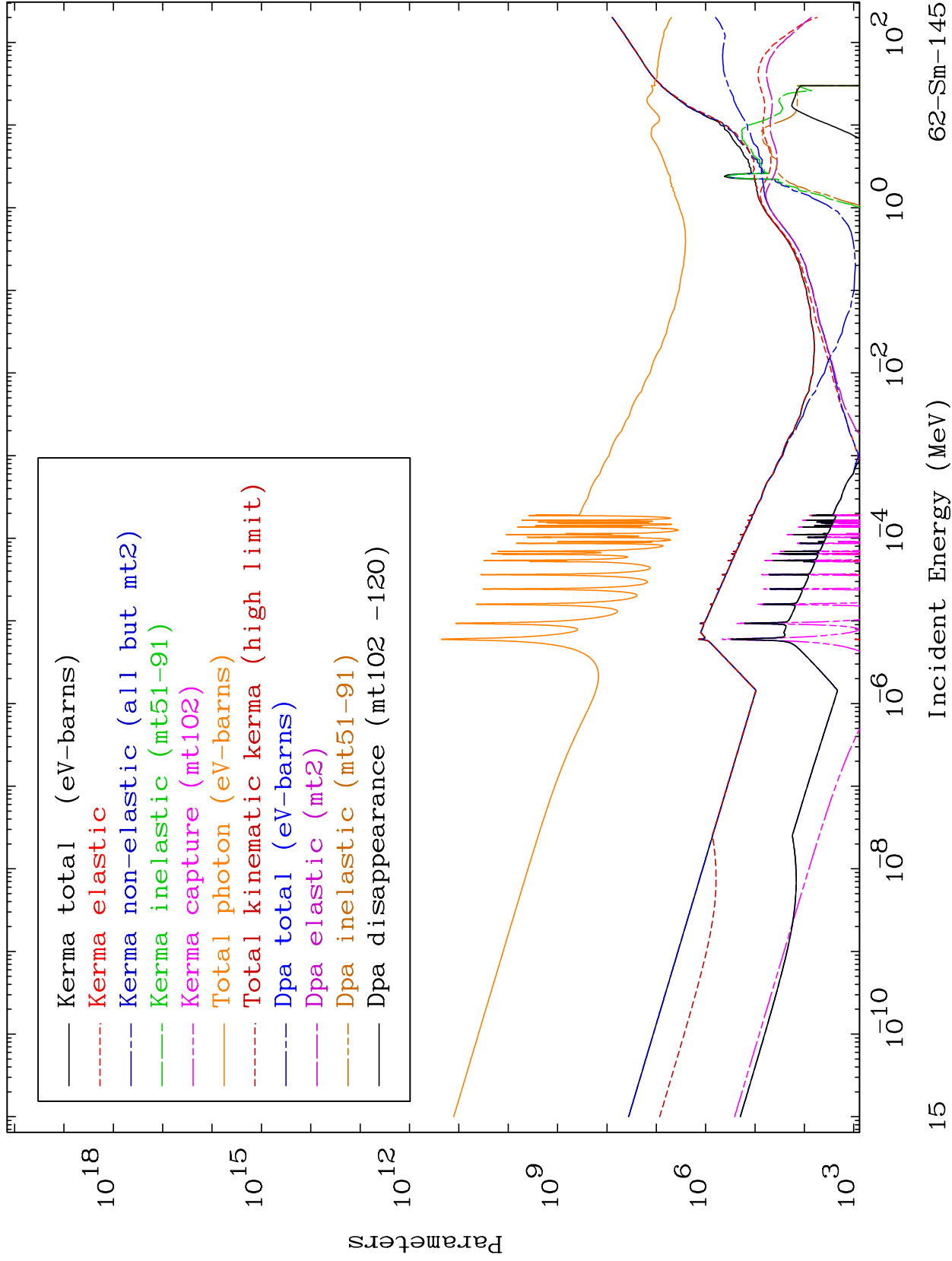


MAT 6228

(n,α) Levels
293 Kelvin Cross Sections

62-Sm-145

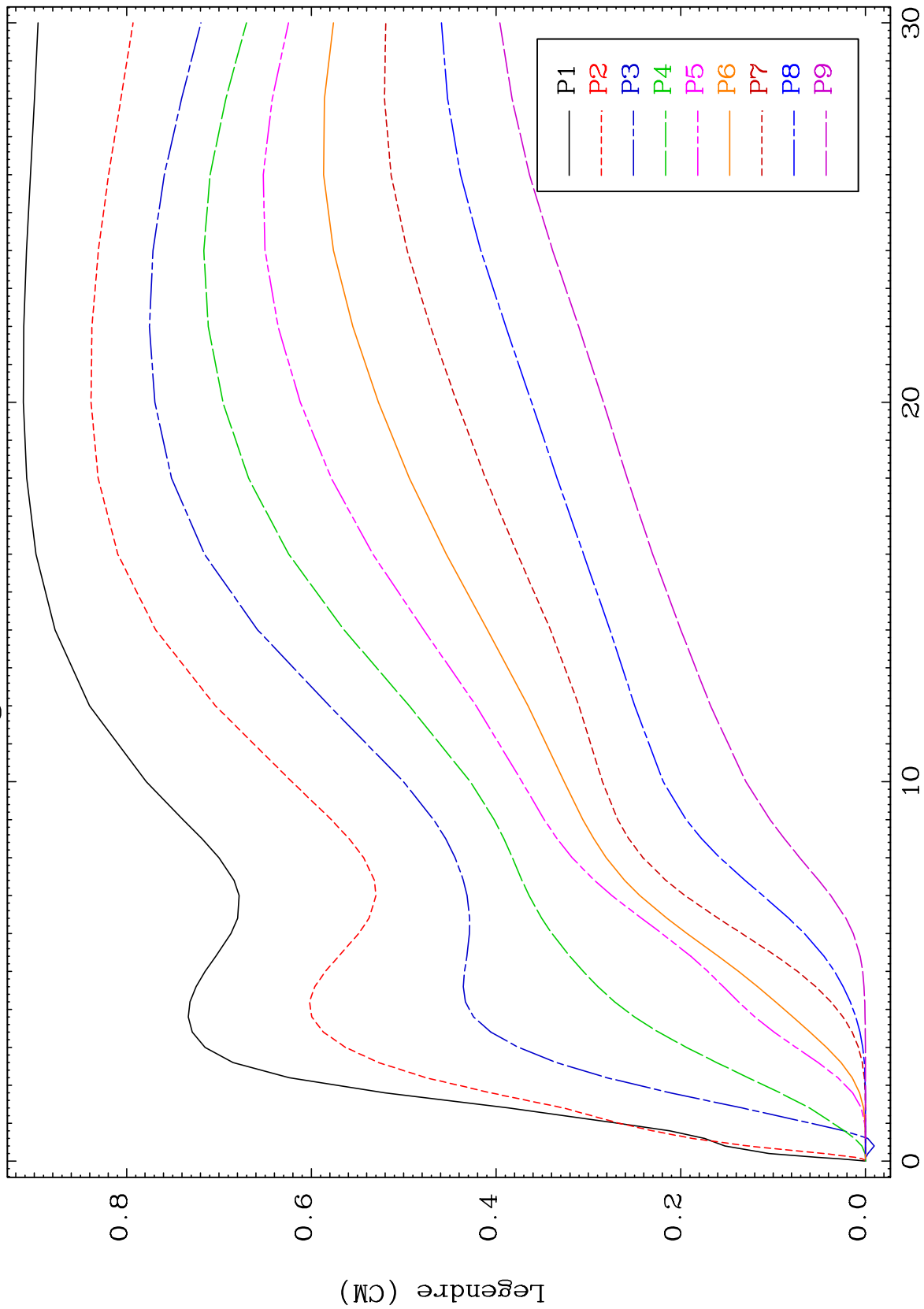




MAT 6228

Elastic Legendre Coefficients

62-Sm-145



16

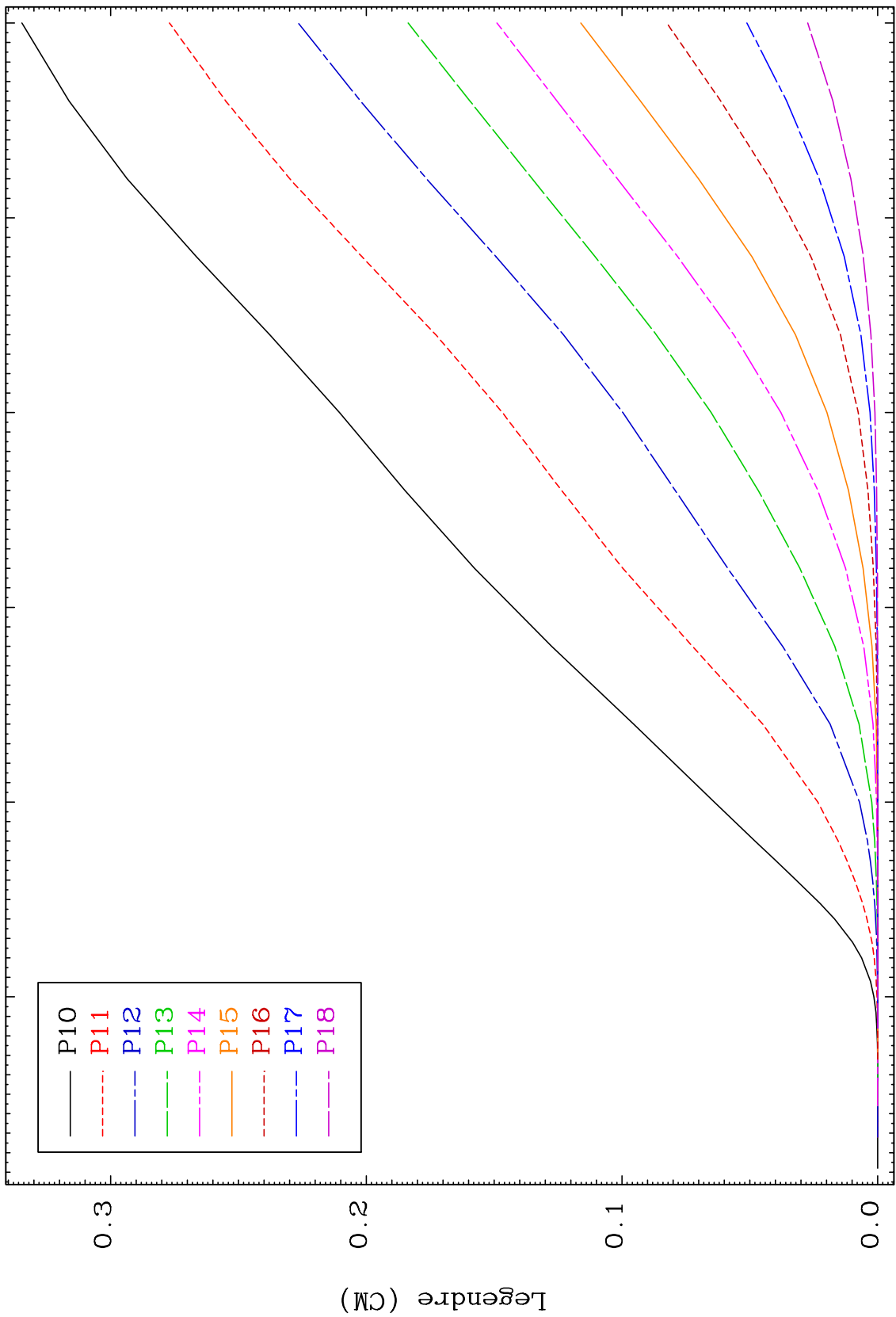
Incident Energy (MeV)

62-Sm-145

MAT 6228

Elastic Legendre Coefficients

62-Sm-145



17

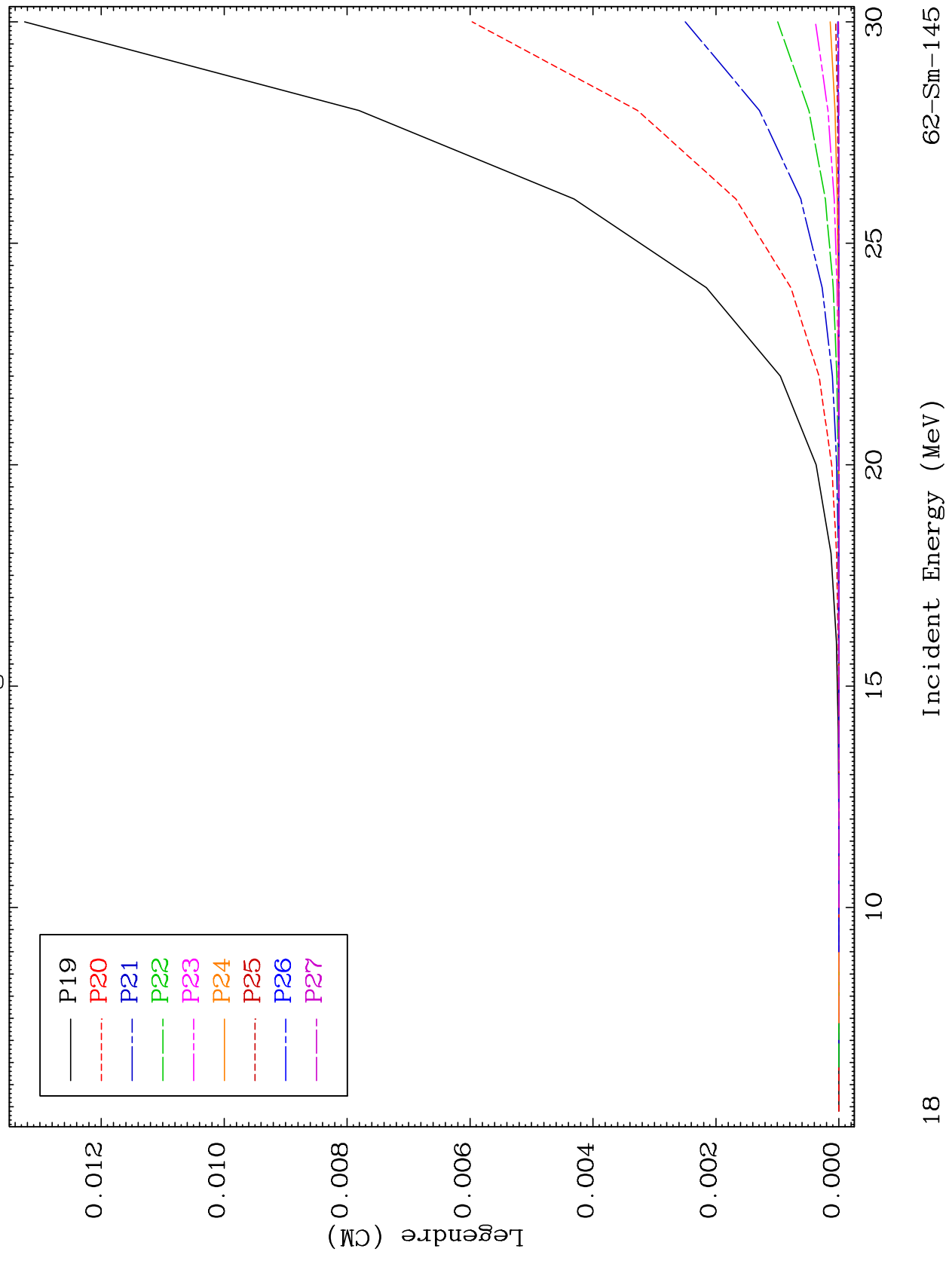
Incident Energy (MeV)

62-Sm-145

MAT 6228

Elastic Legendre Coefficients

62-Sm-145



18

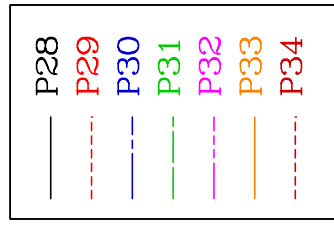
Incident Energy (MeV)

62-Sm-145

MAT 6228

Elastic
Legendre Coefficients

62-Sm-145



$\times 10^{-6}$

1.5

1.0

0.5

0.0

Legendre (CM)

15

20

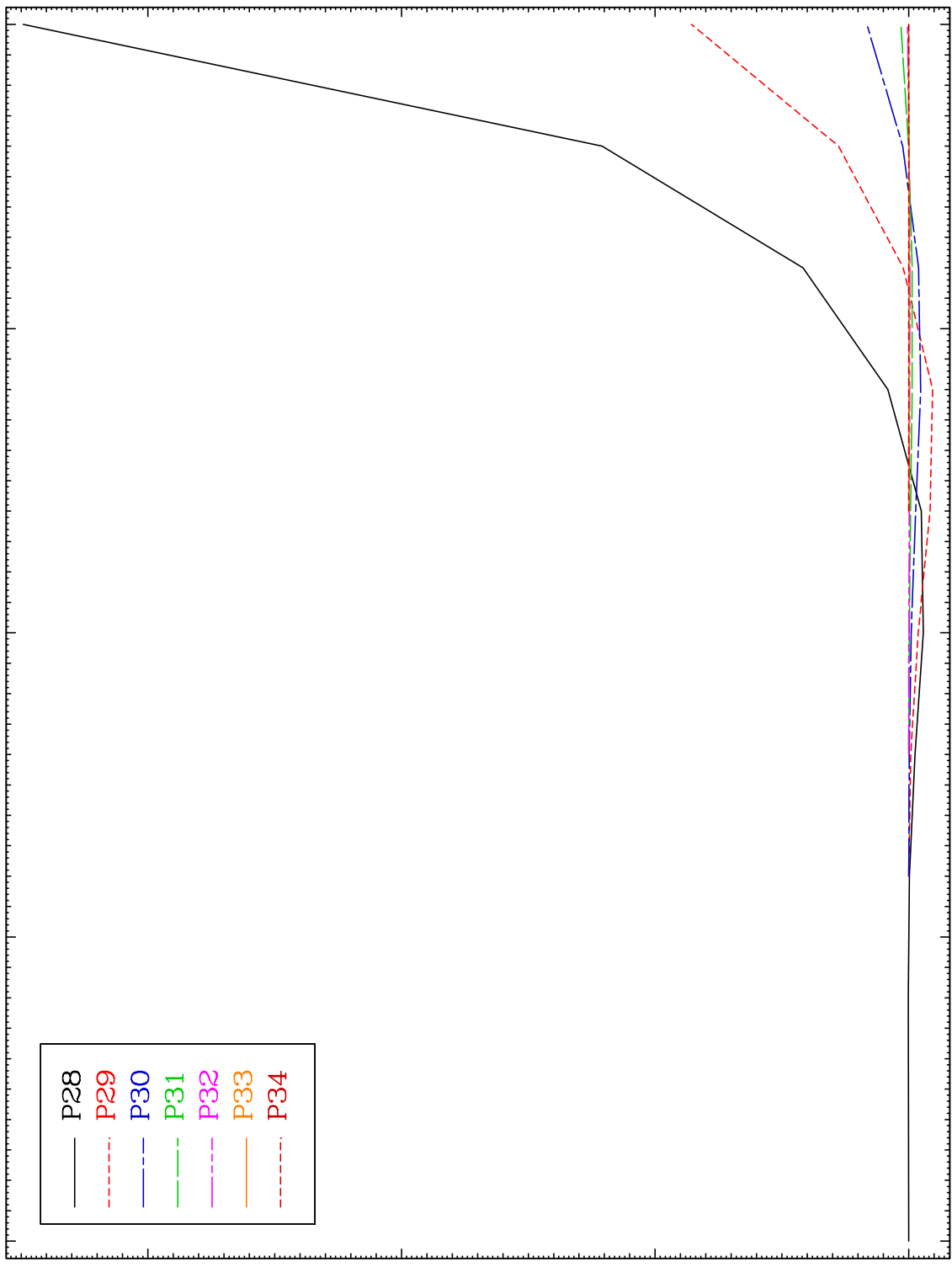
25

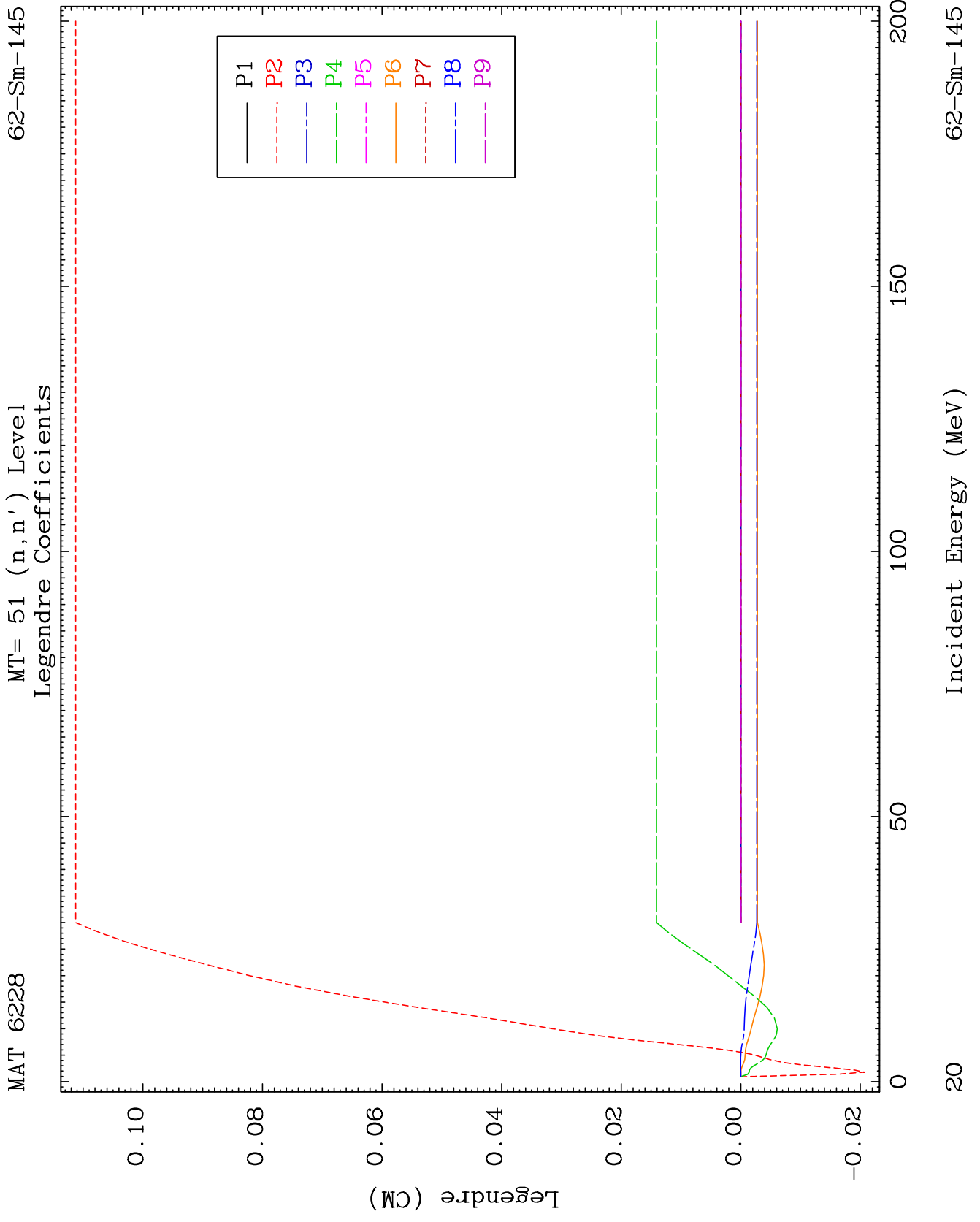
30

19

Incident Energy (MeV)

62-Sm-145

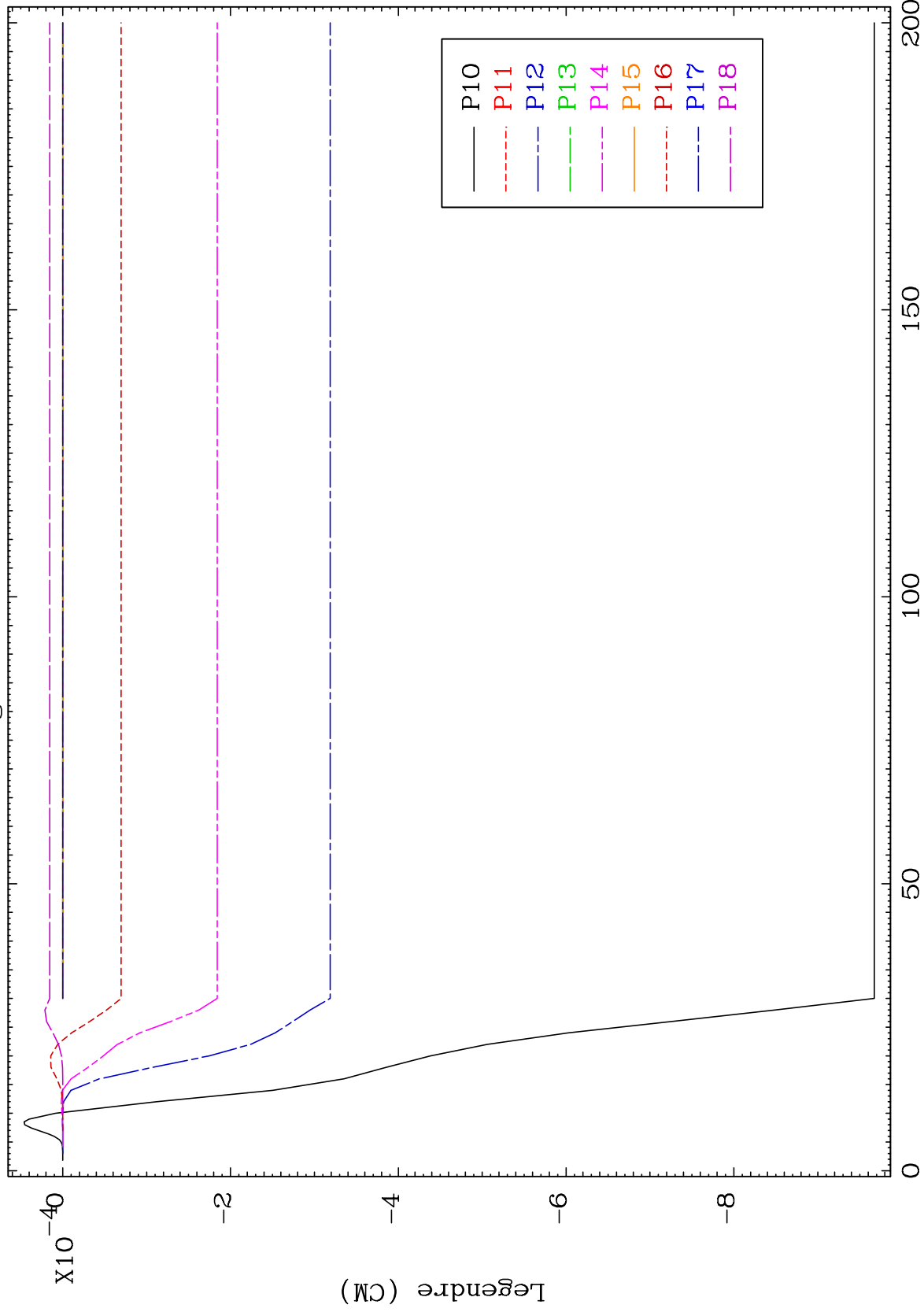




MAT 6228

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

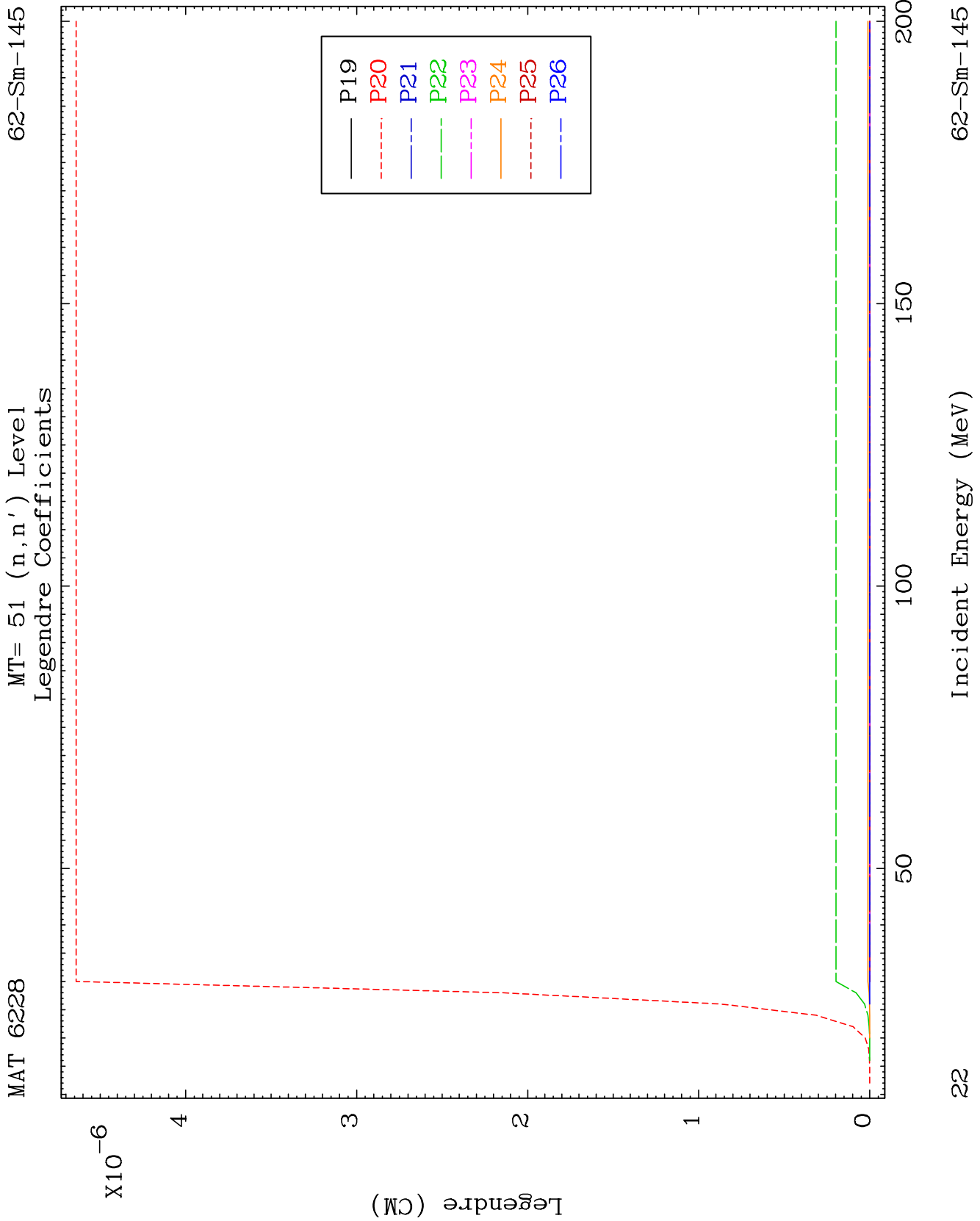
62-Sm-145



21

Incident Energy (MeV)

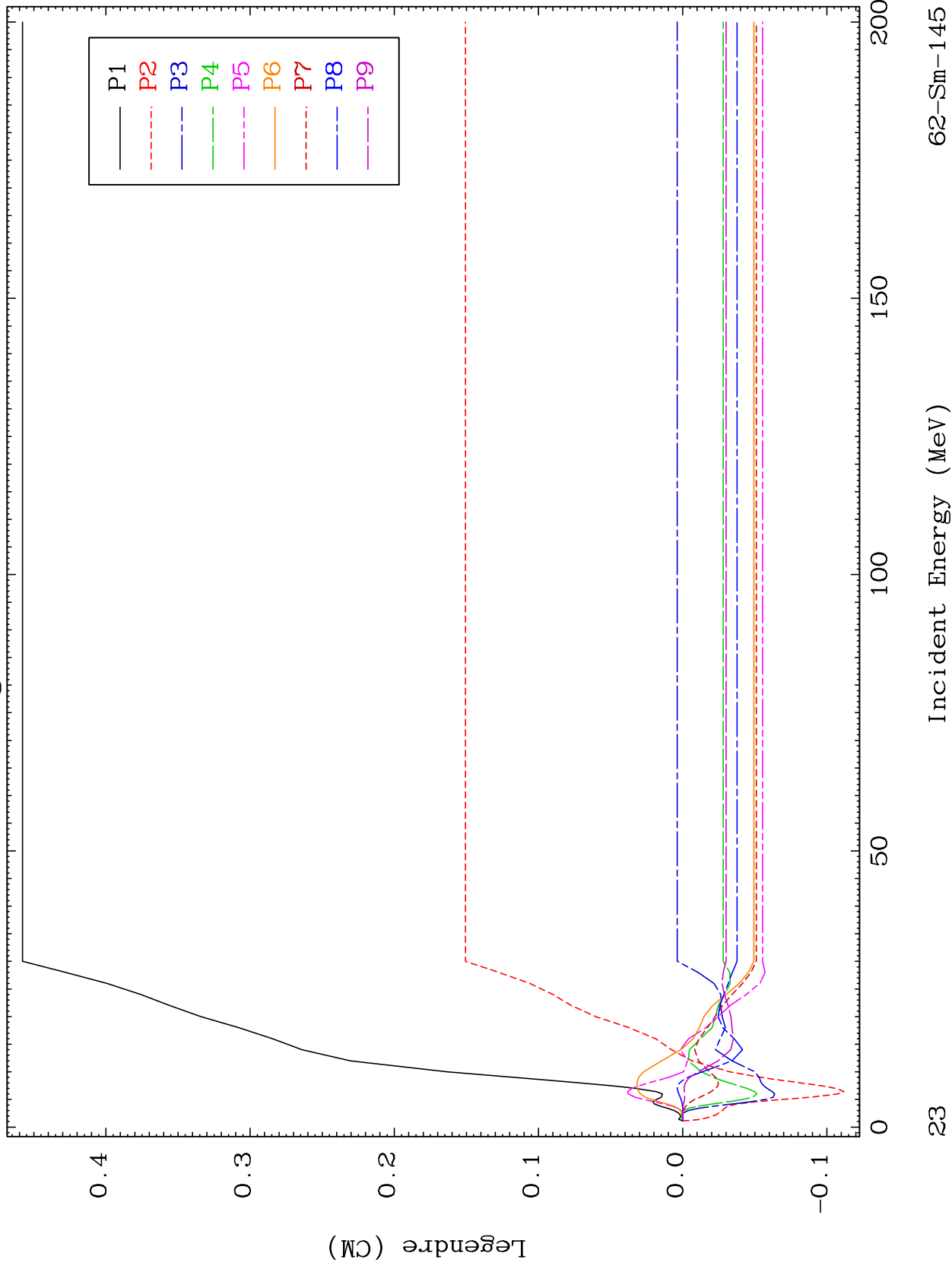
62-Sm-145



MAT 6228

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

62-Sm-145



62-Sm-145

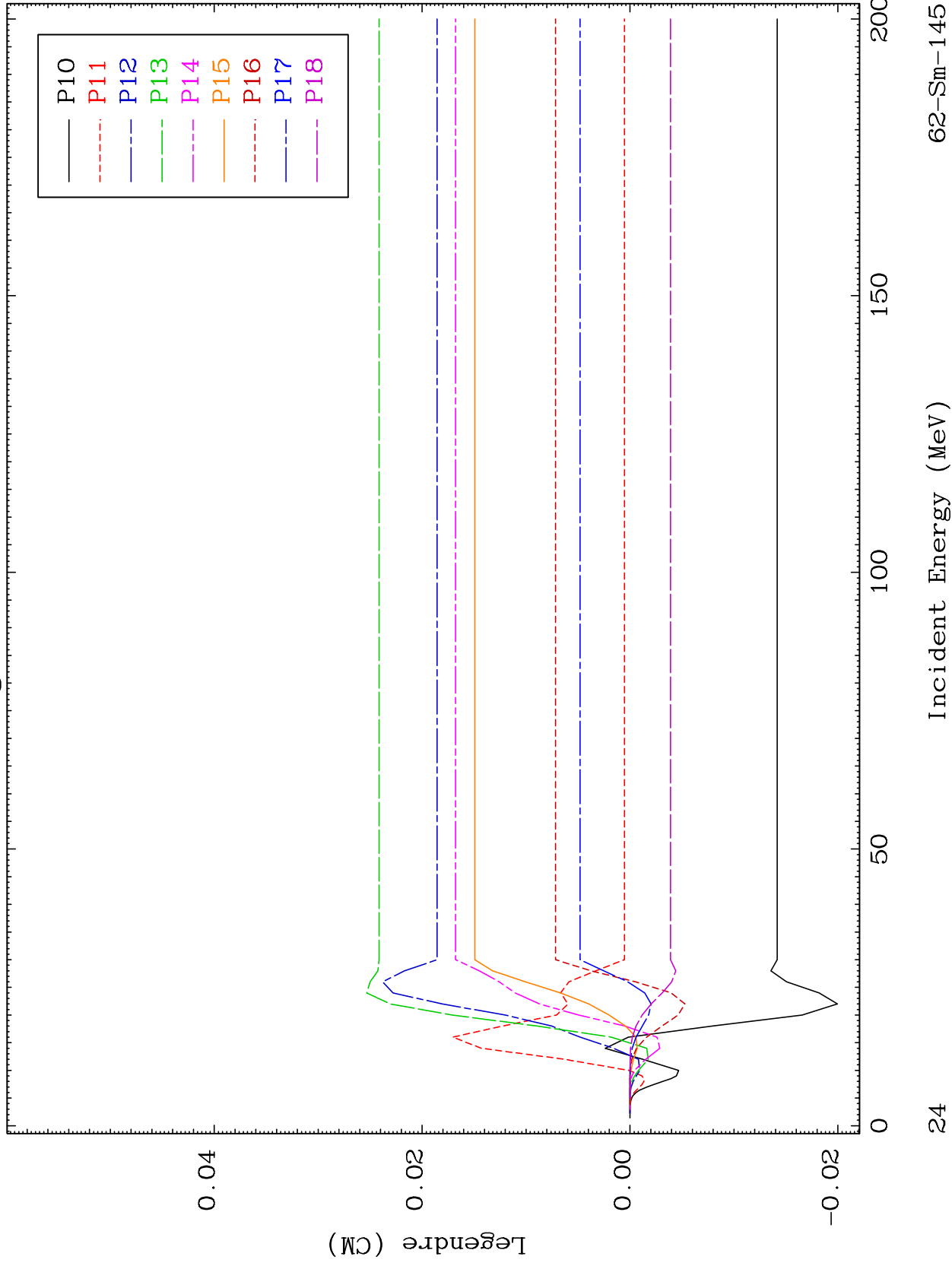
Incident Energy (MeV)

23

MAT 6228

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

62-Sm-145



62-Sm-145

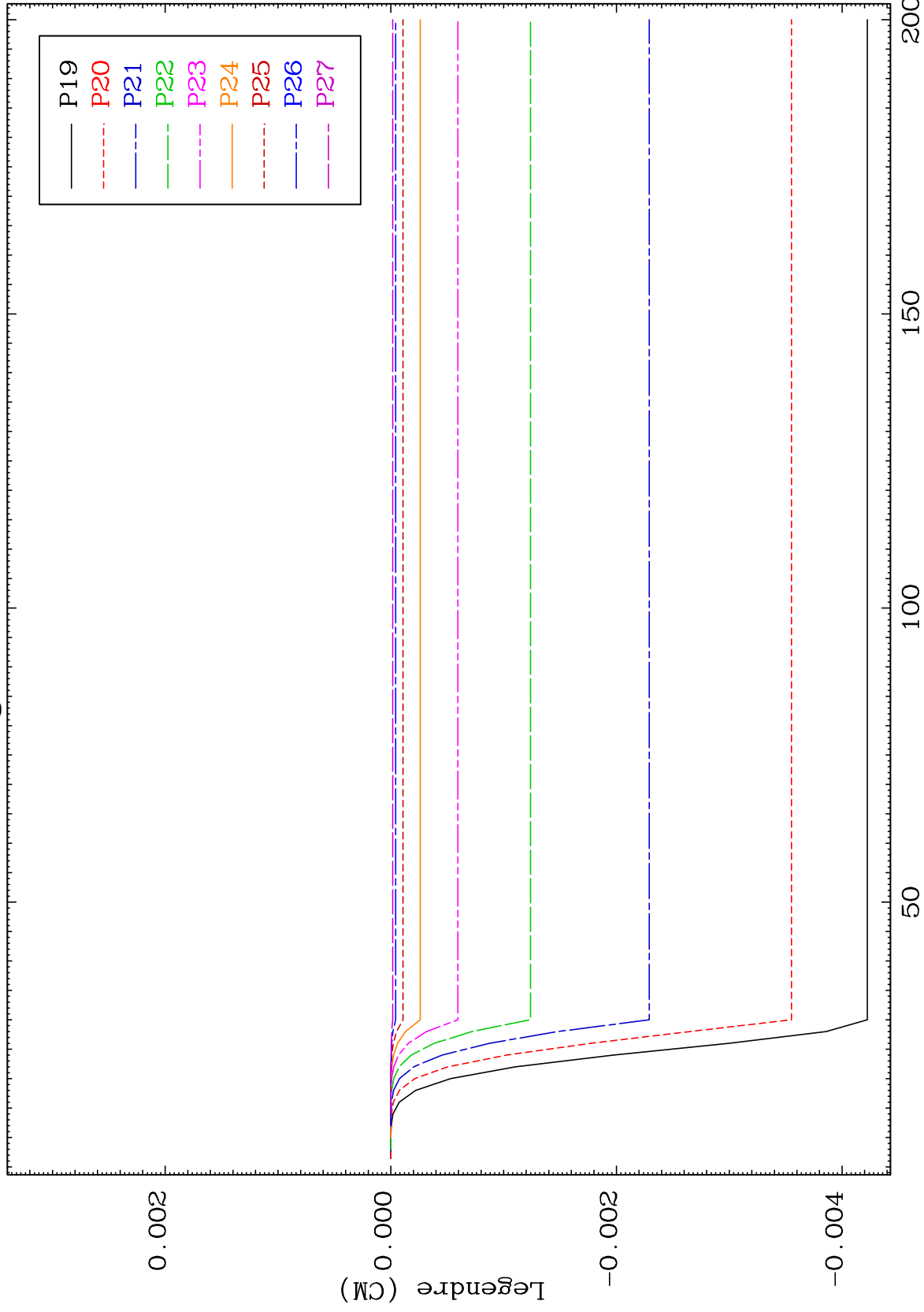
Incident Energy (MeV)

24

MAT 6228

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

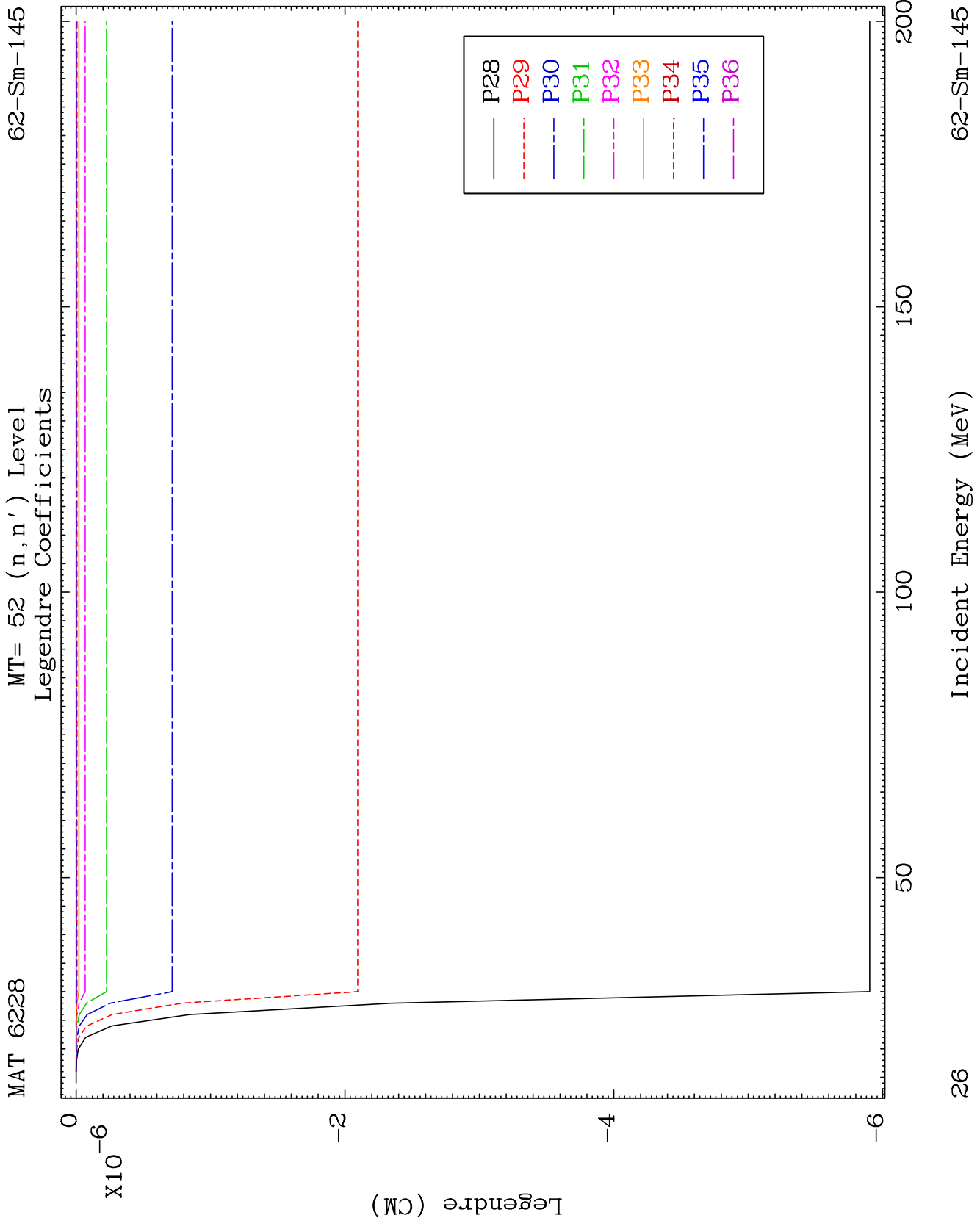
62-Sm-145



25

Incident Energy (MeV)

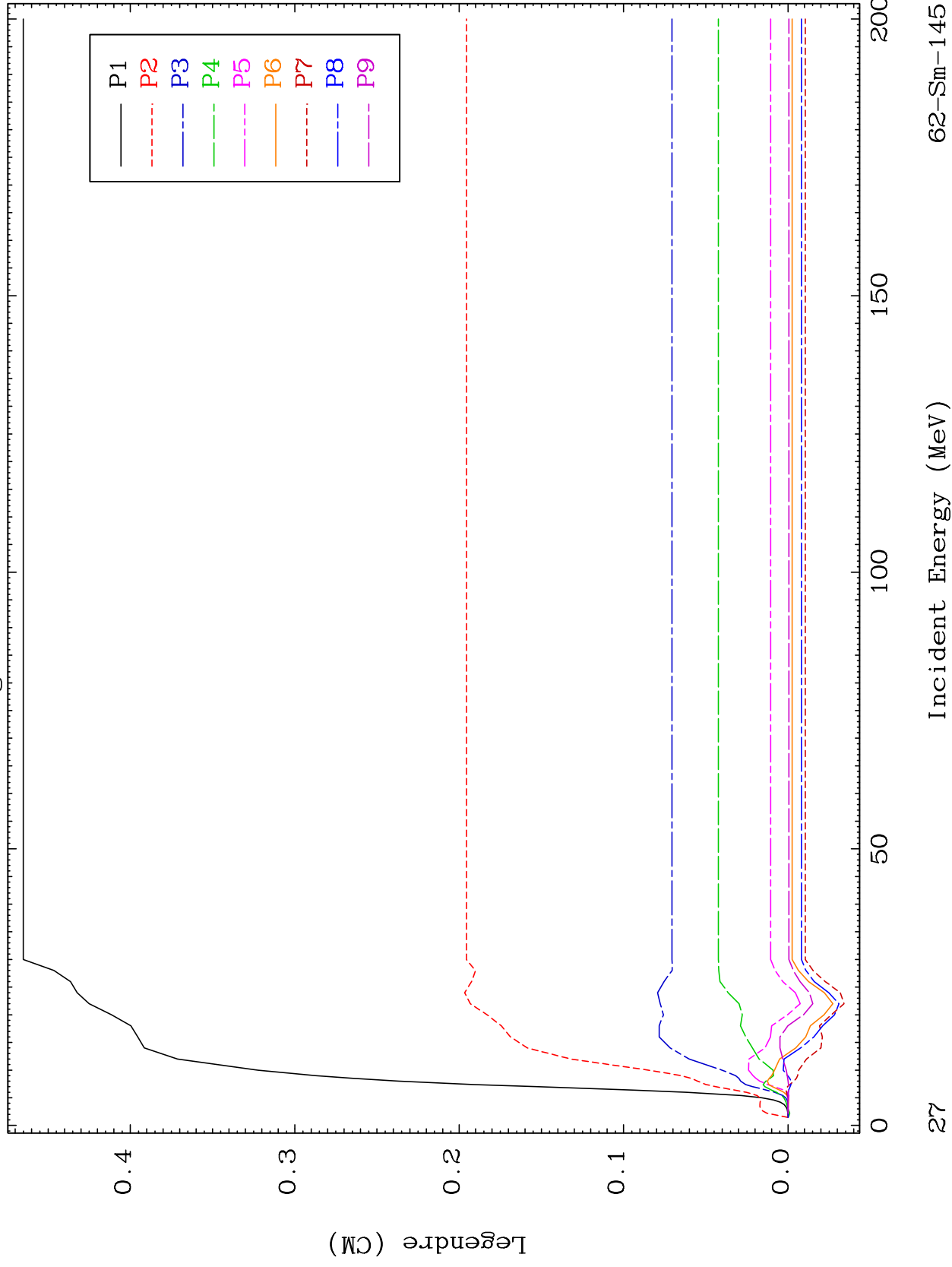
62-Sm-145



MAT 6228

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

62-Sm-145



27

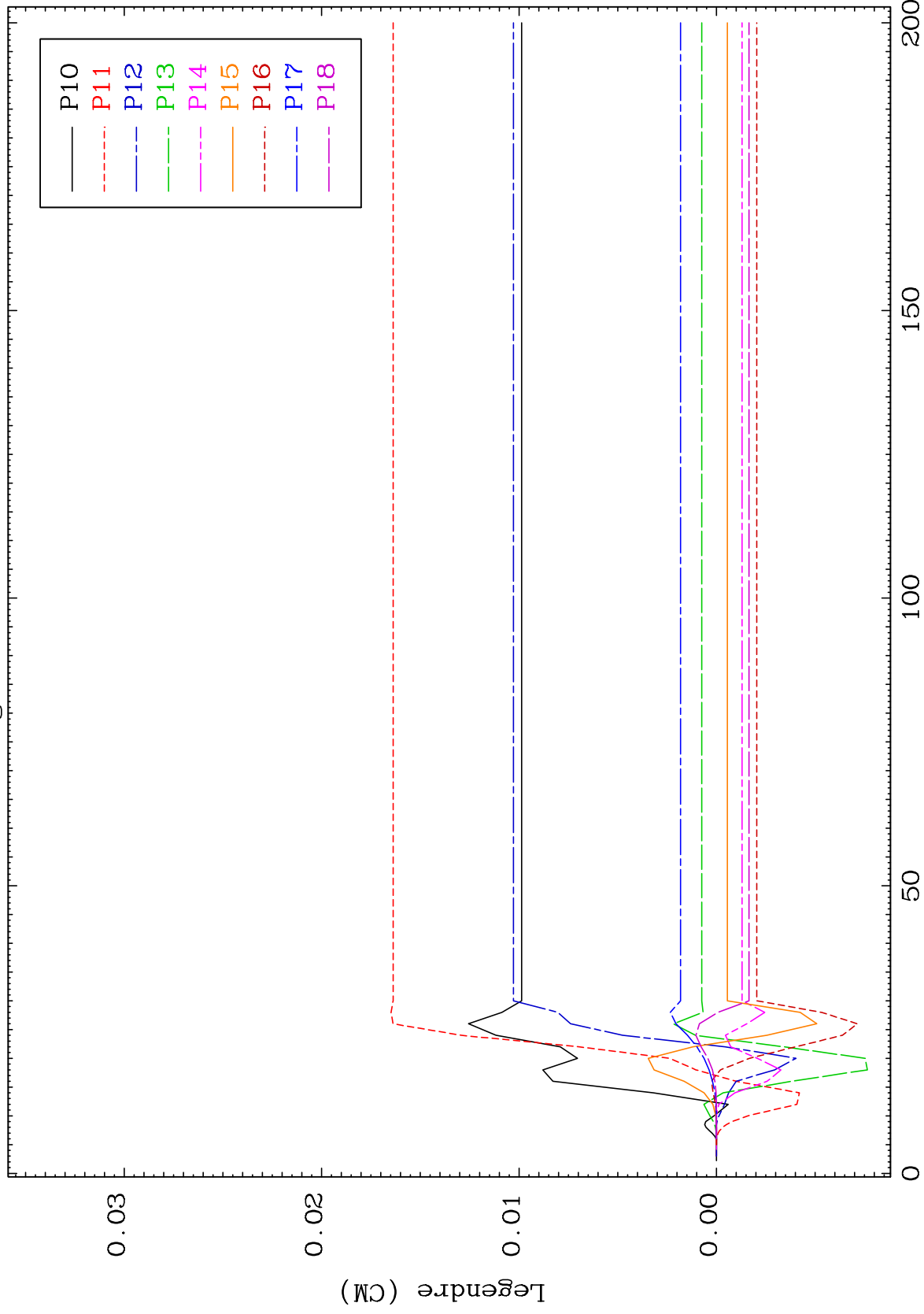
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

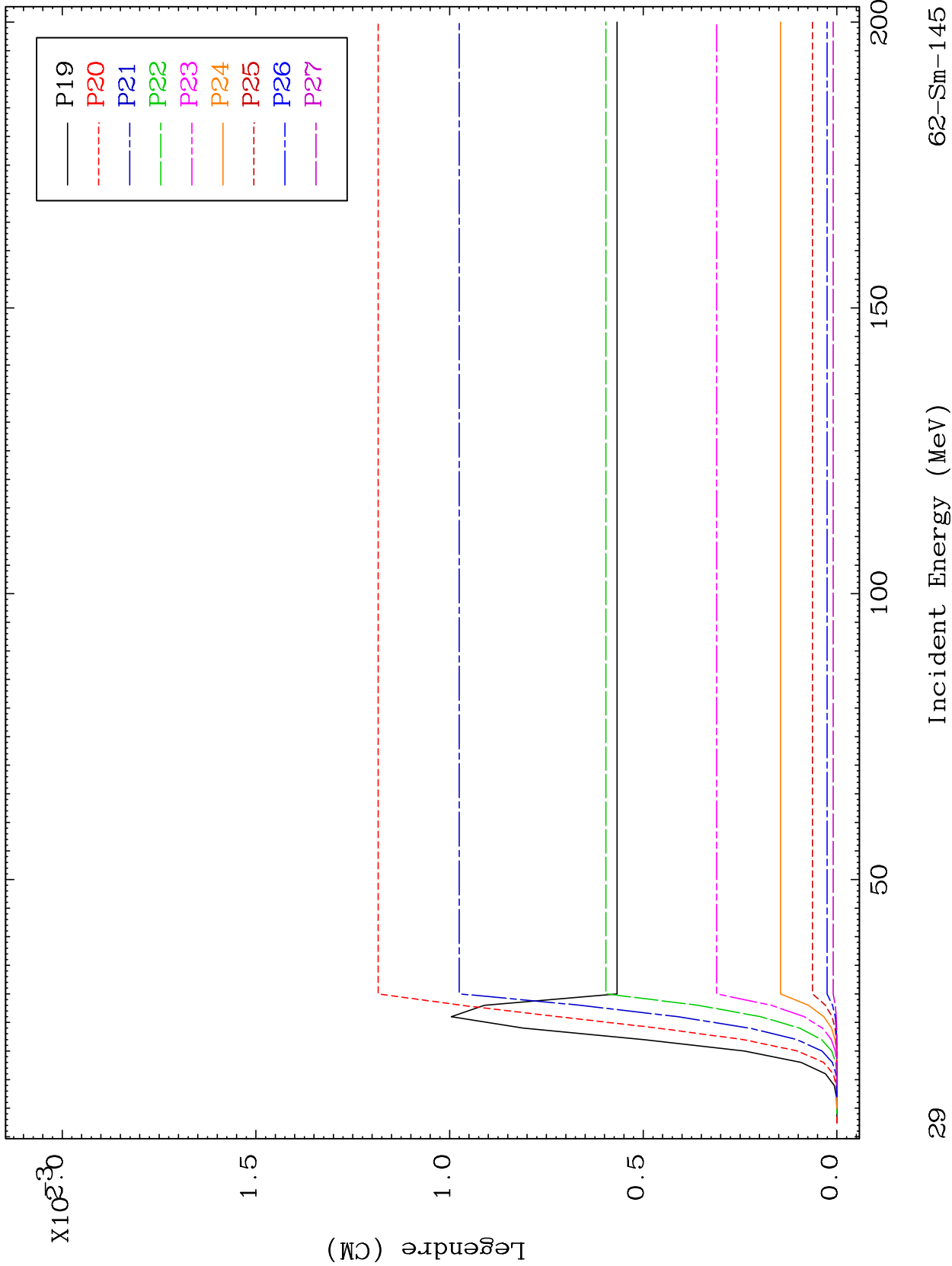
62-Sm-145



28

Incident Energy (MeV)

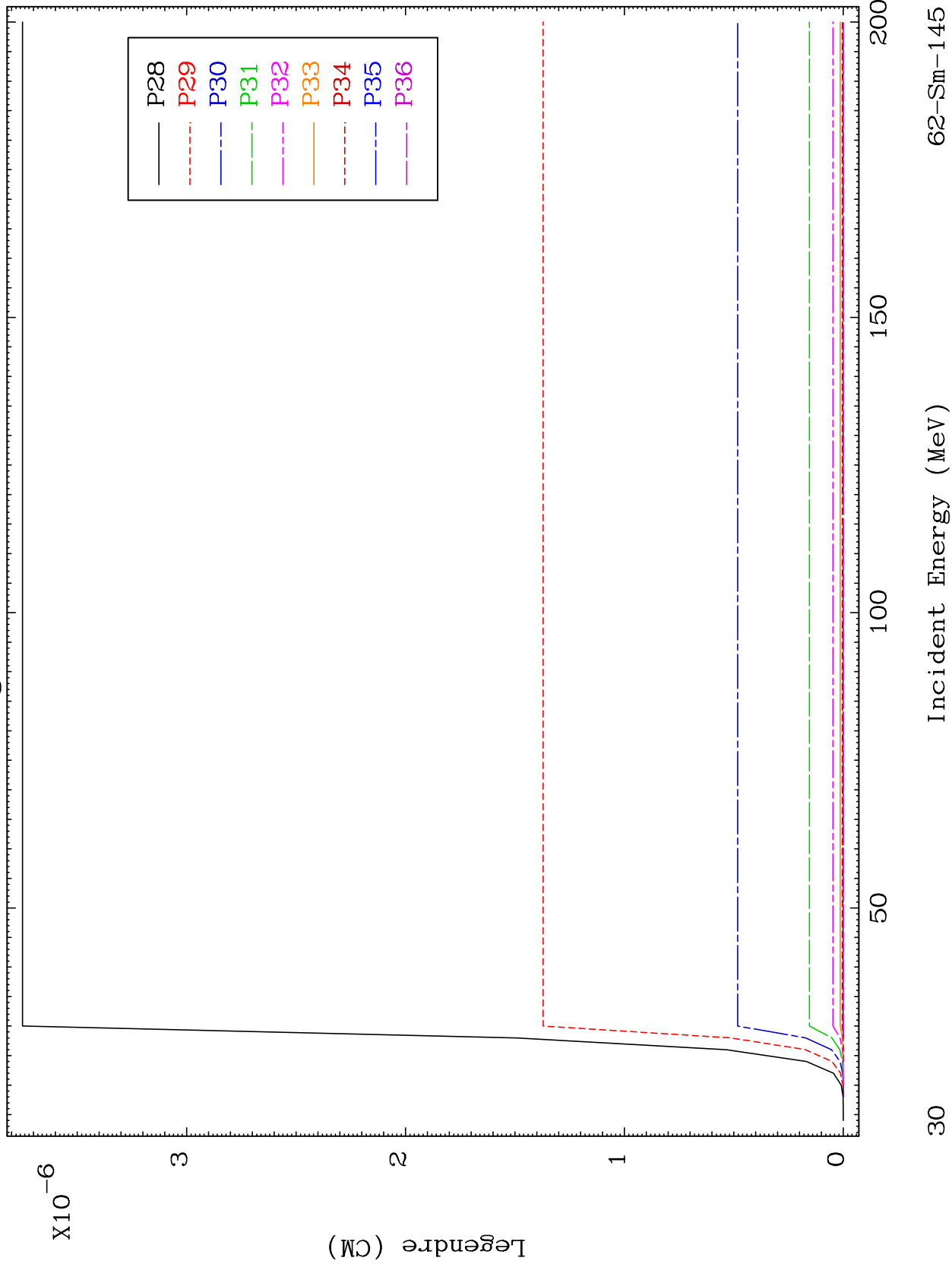
62-Sm-145



MAT 6228

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

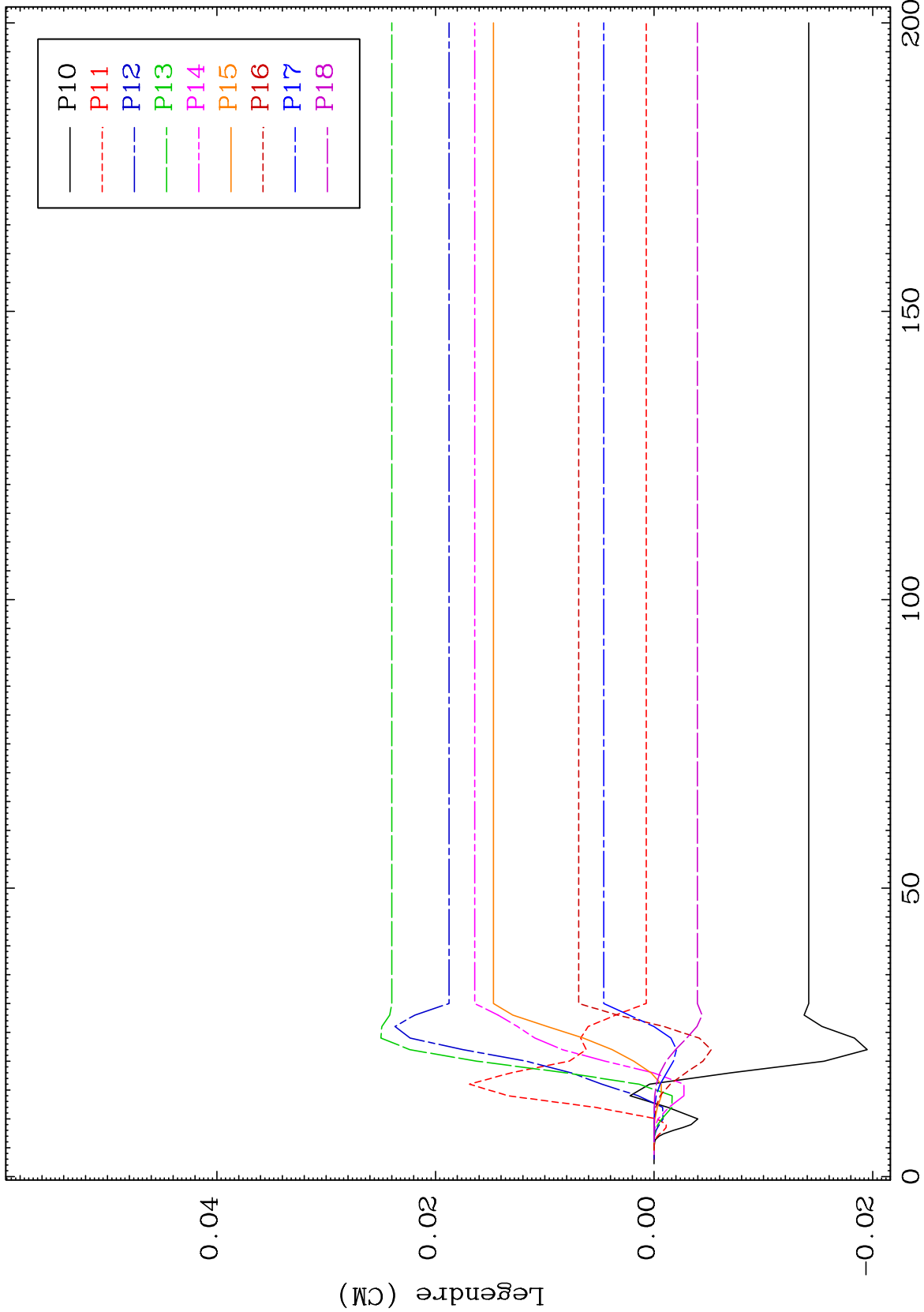
62-Sm-145



MAT 6228

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

62-Sm-145



32

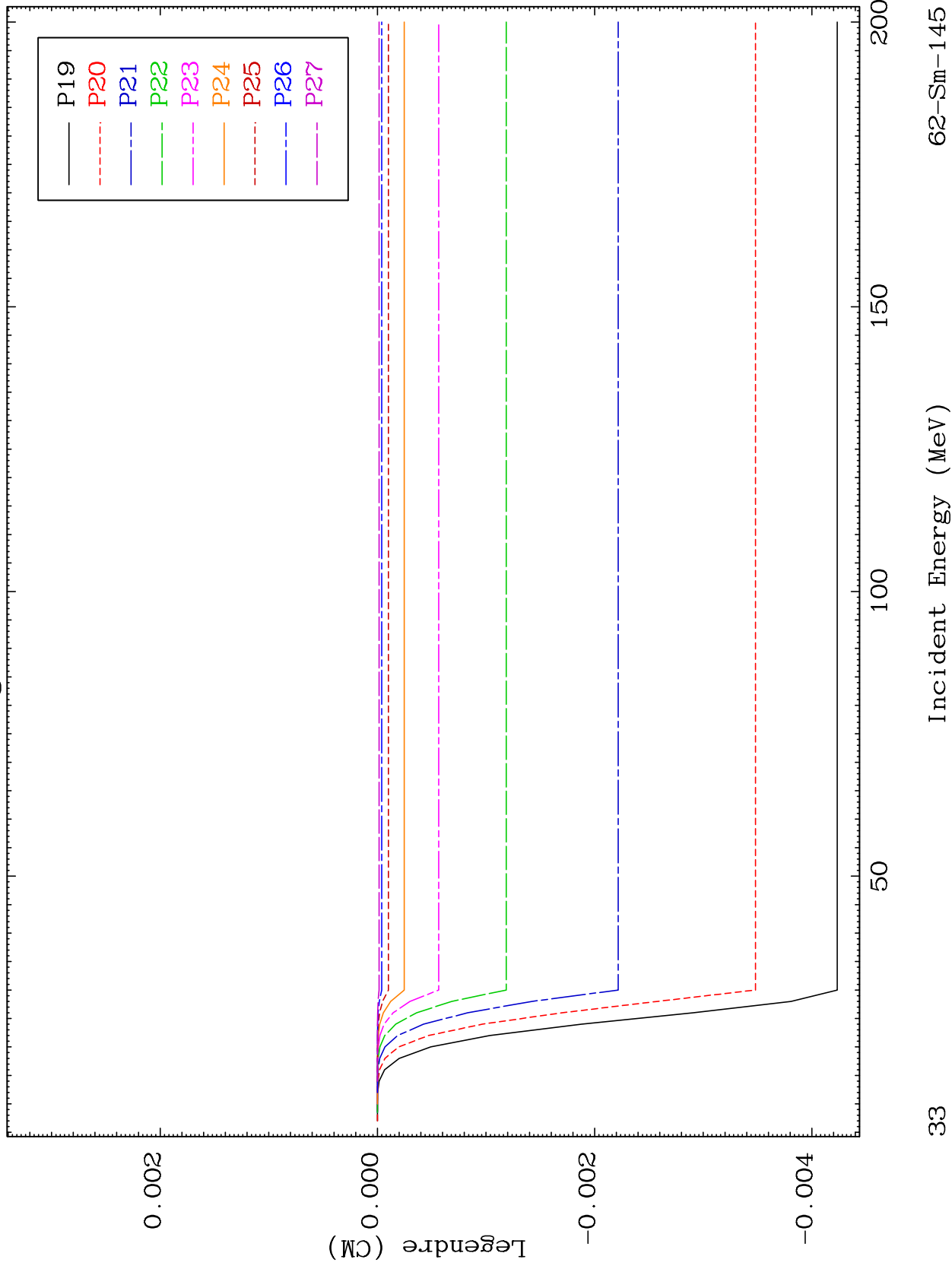
Incident Energy (MeV)

62-Sm-145

MAT 6228

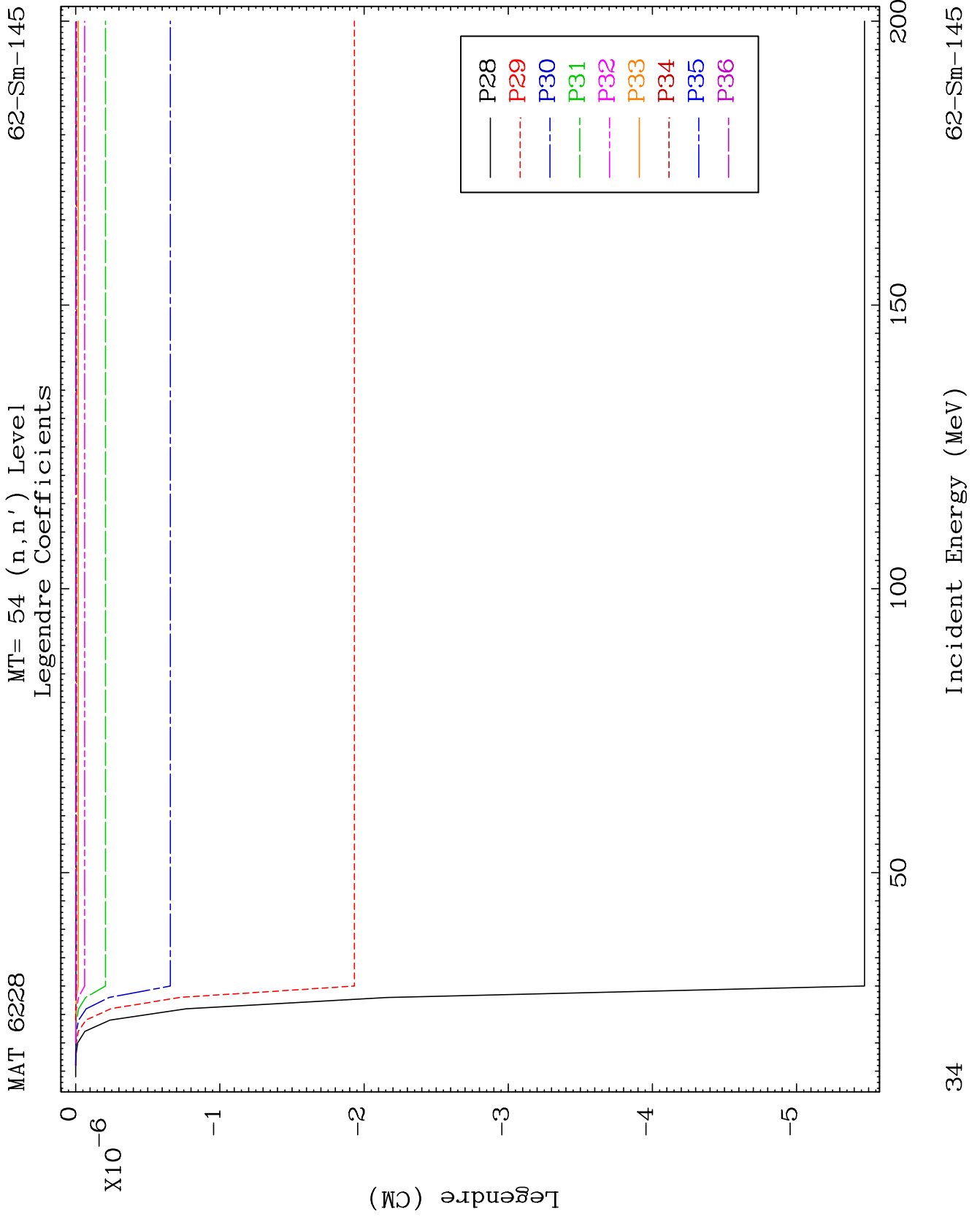
MT= 54 (n,n') Level
Legendre Coefficients

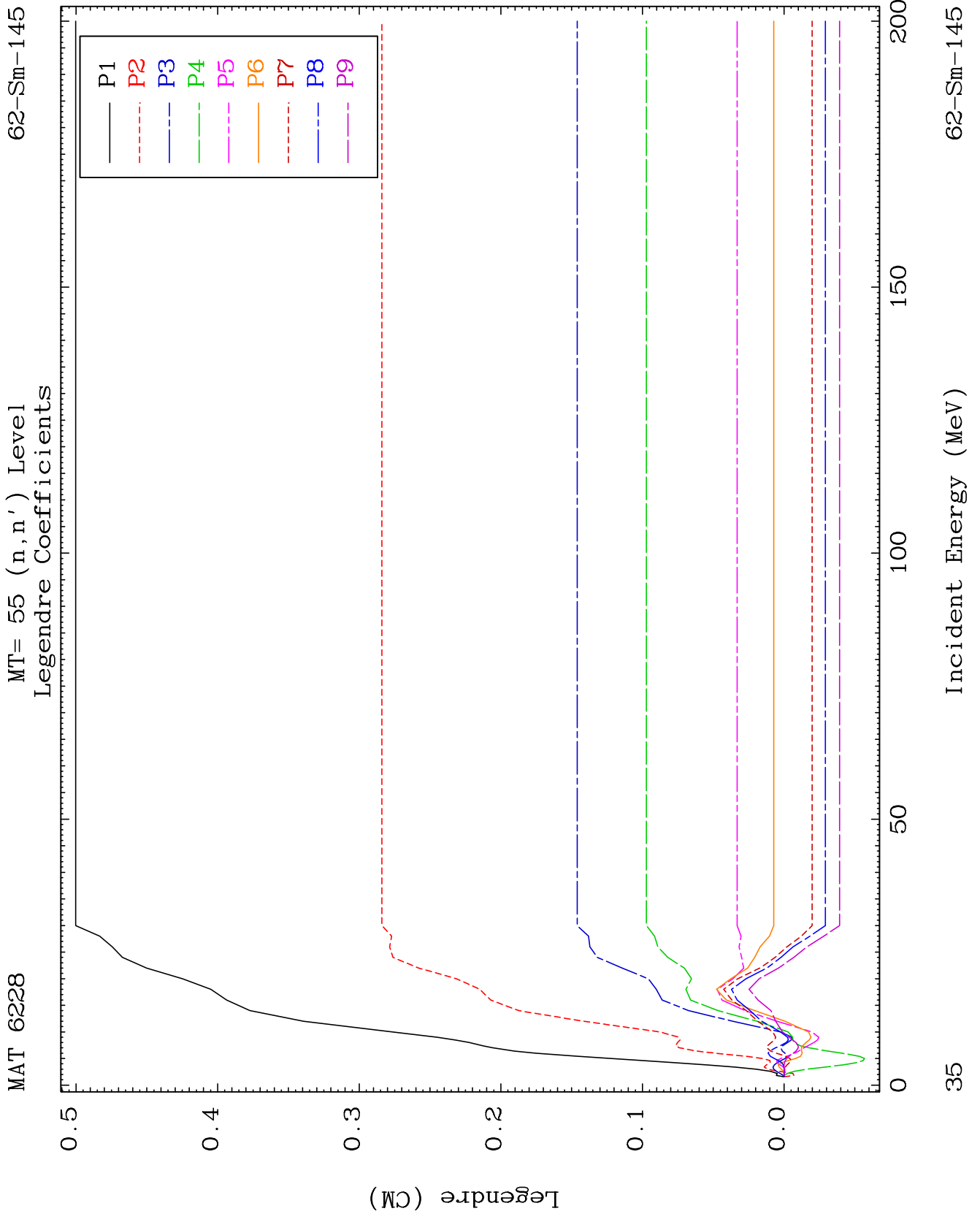
62-Sm-145



33

62-Sm-145

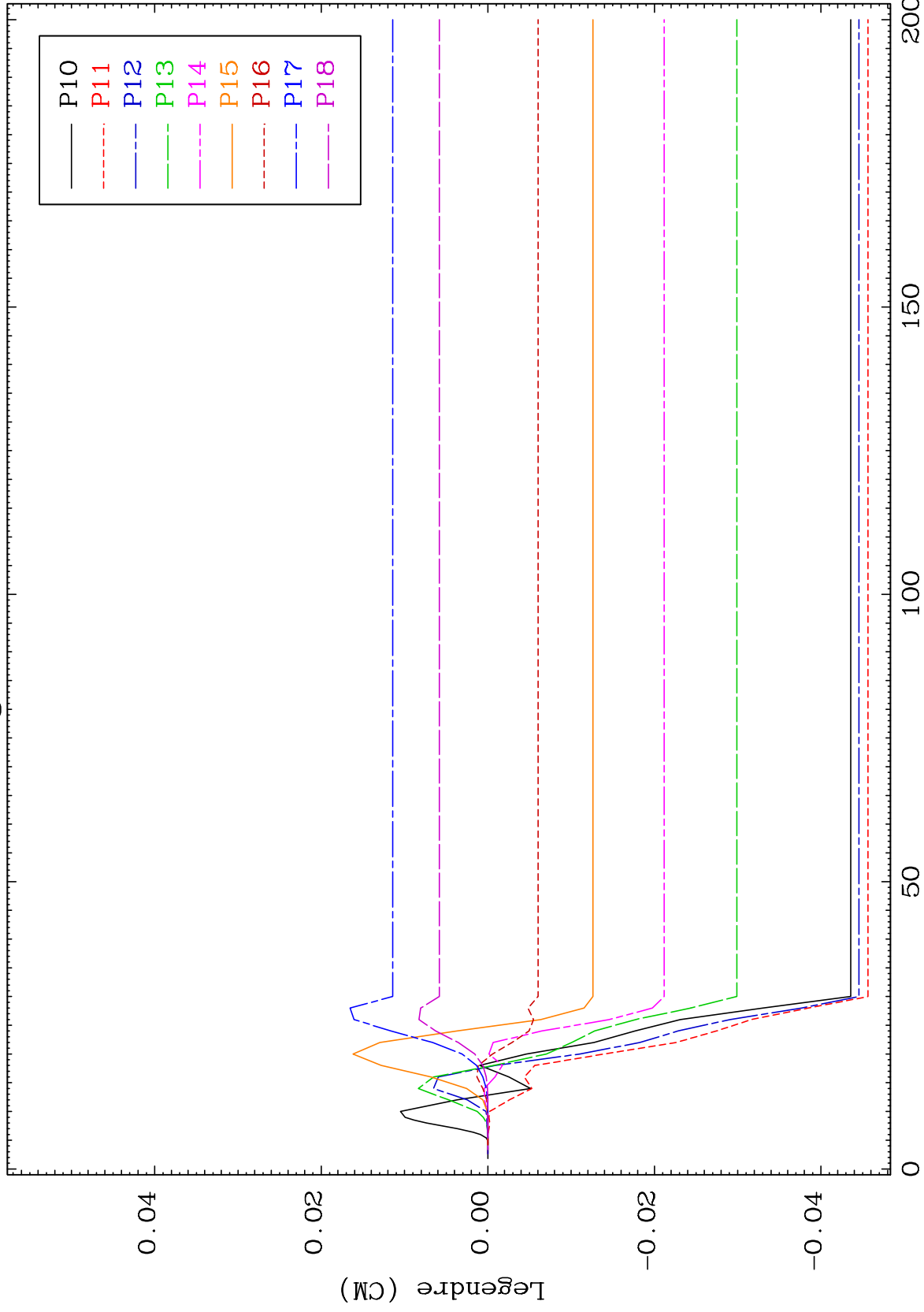




MAT 6228

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

62-Sm-145



36

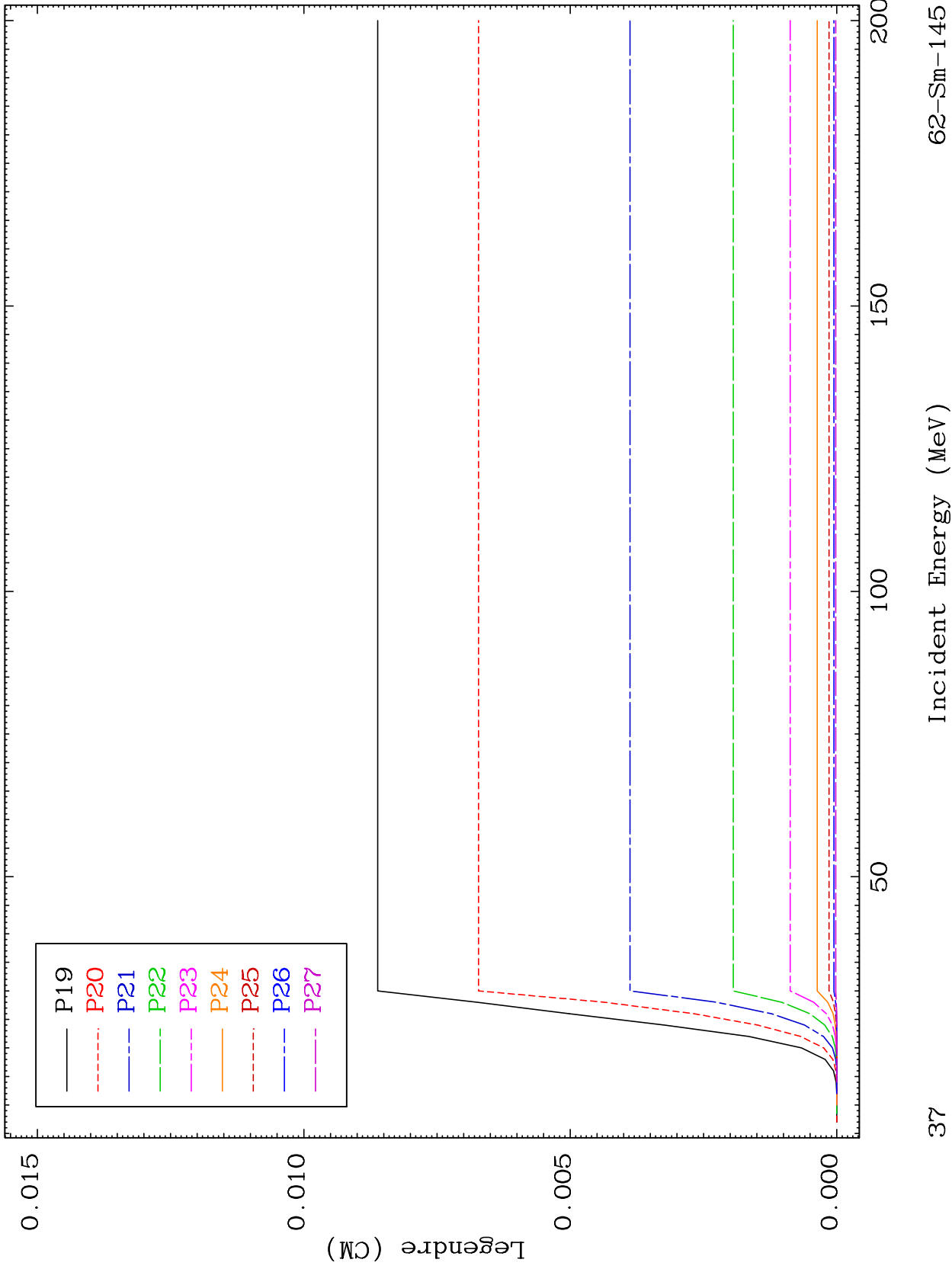
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



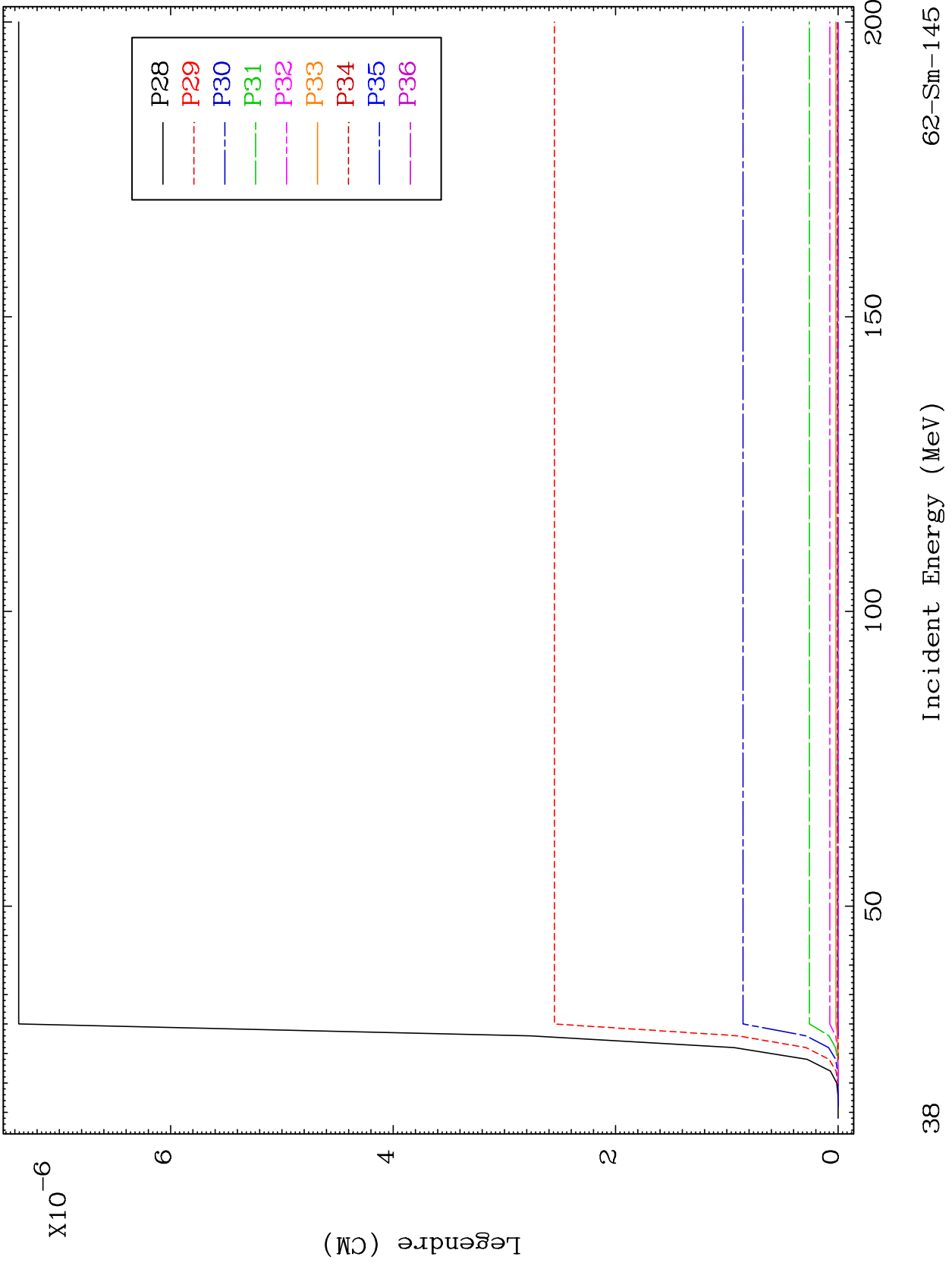
37

62-Sm-145

MAT 6228

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

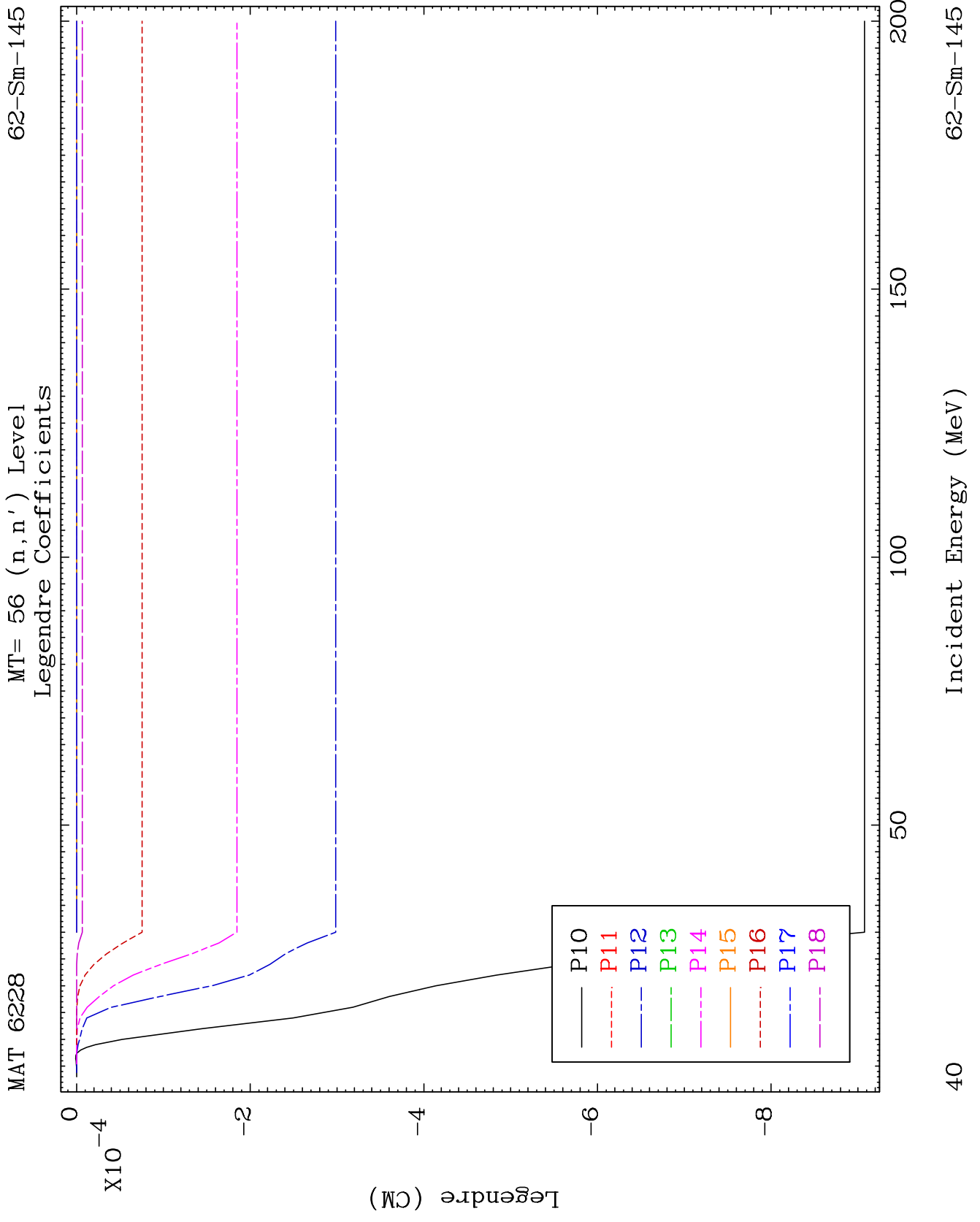
62-Sm-145

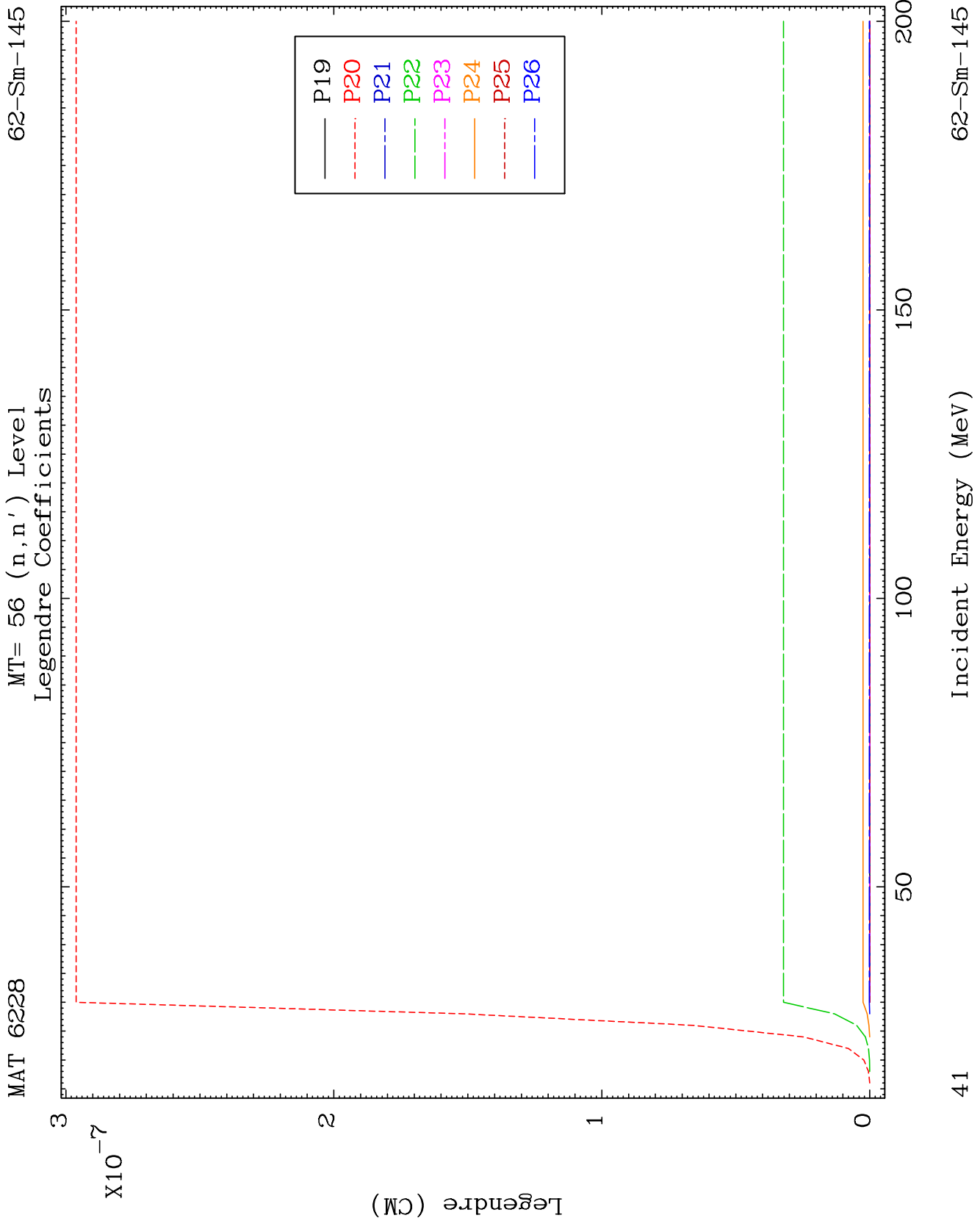


38

Incident Energy (MeV)

62-Sm-145

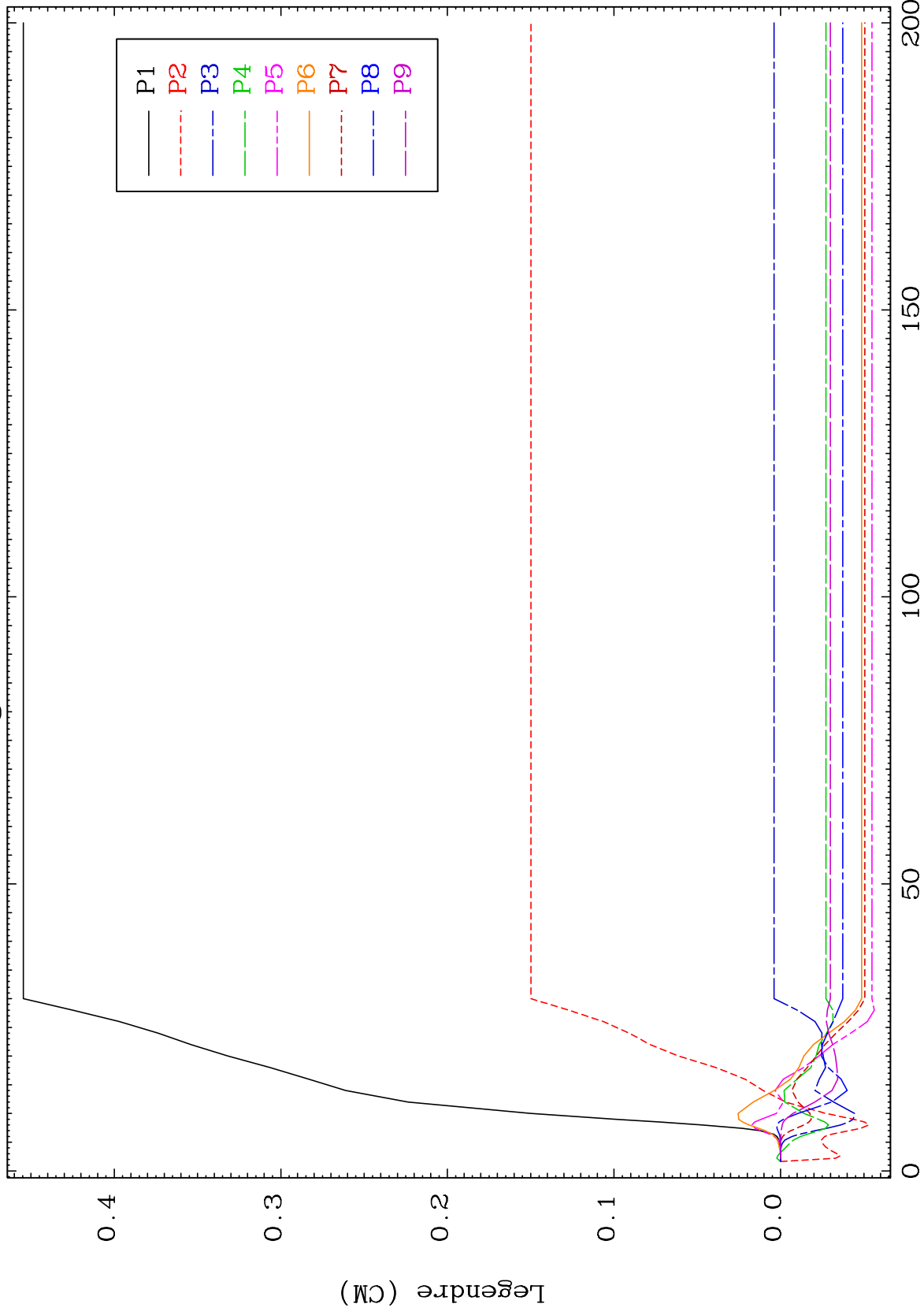




MAT 6228

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

62-Sm-145



42

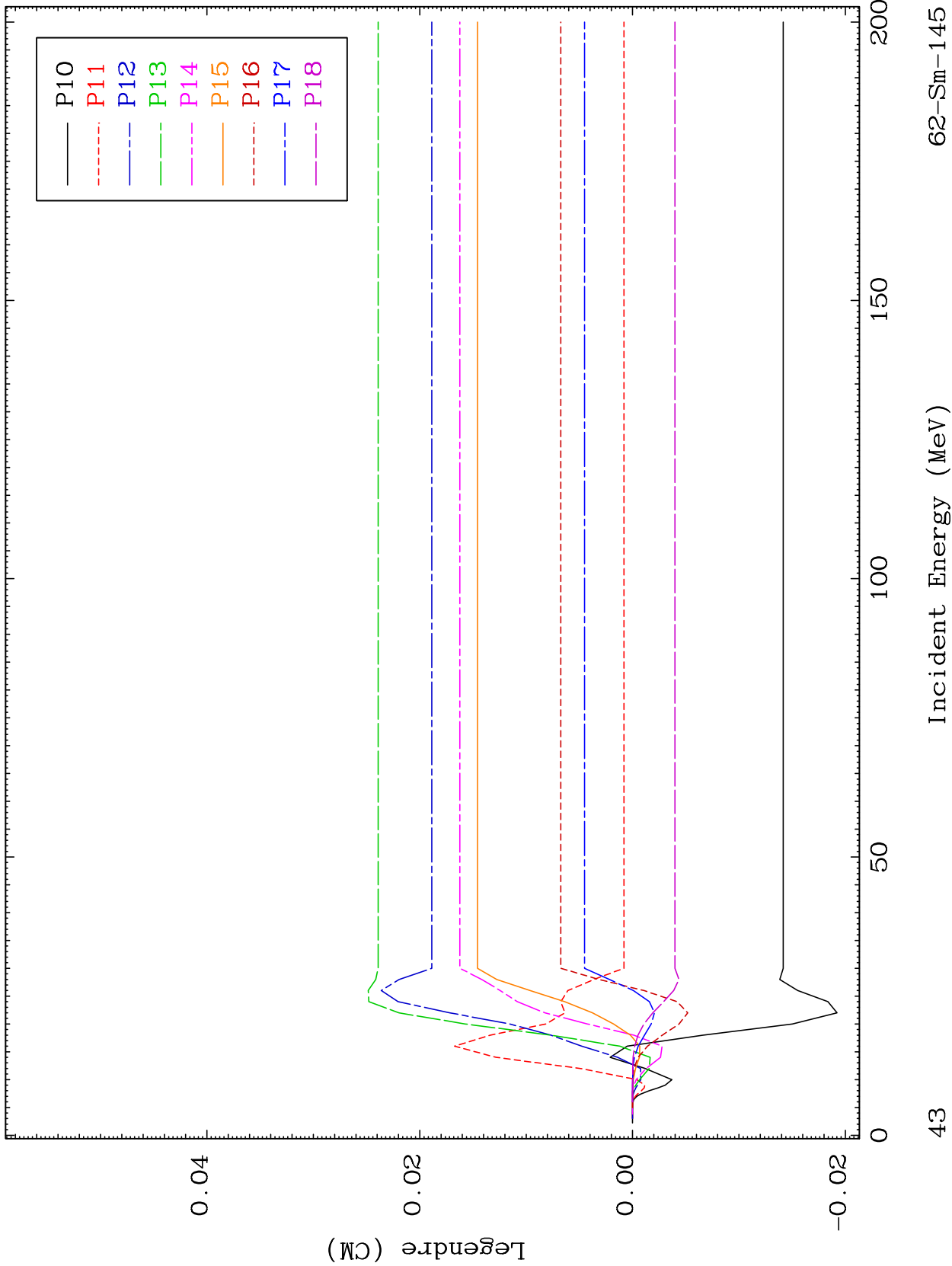
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



43

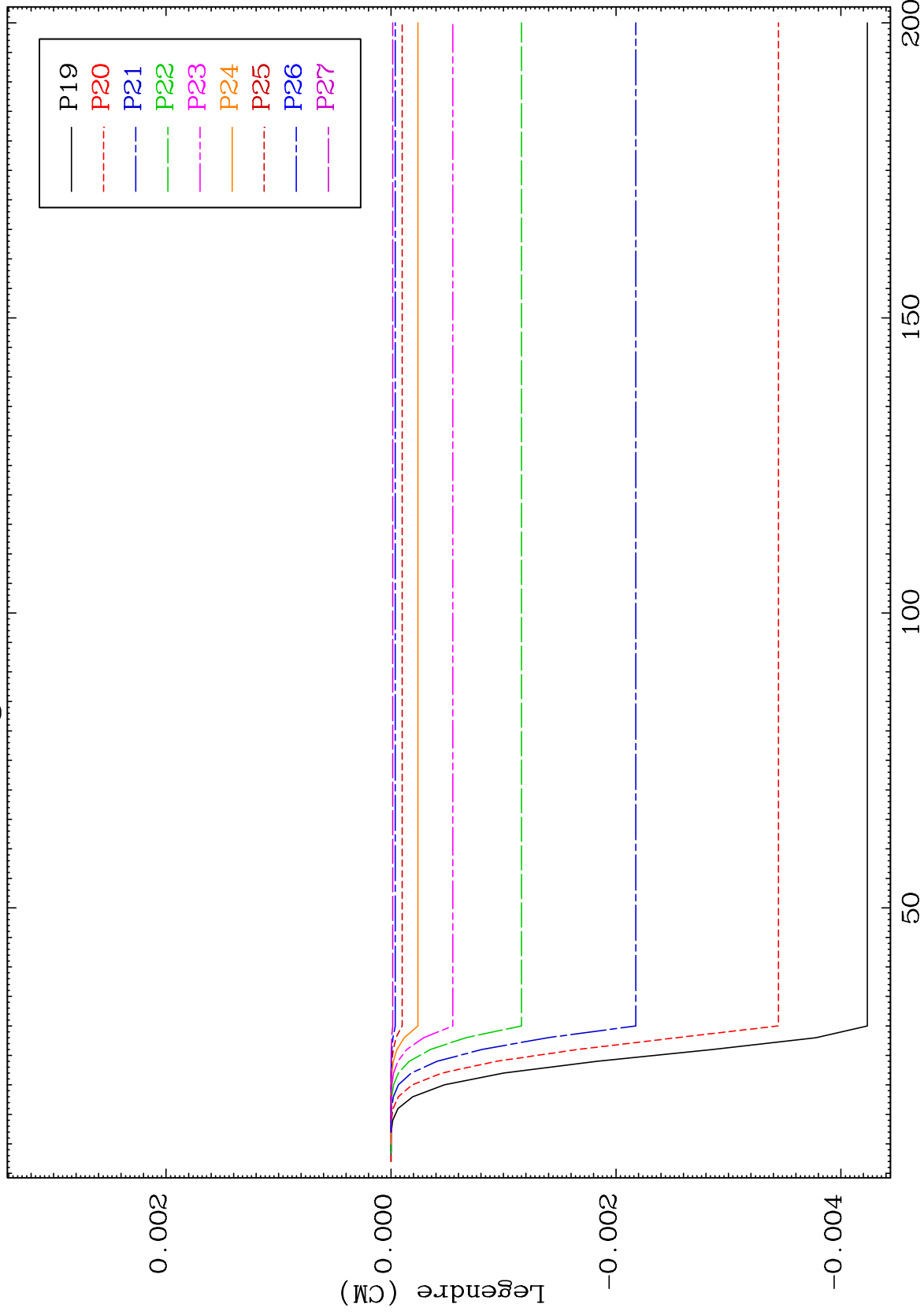
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

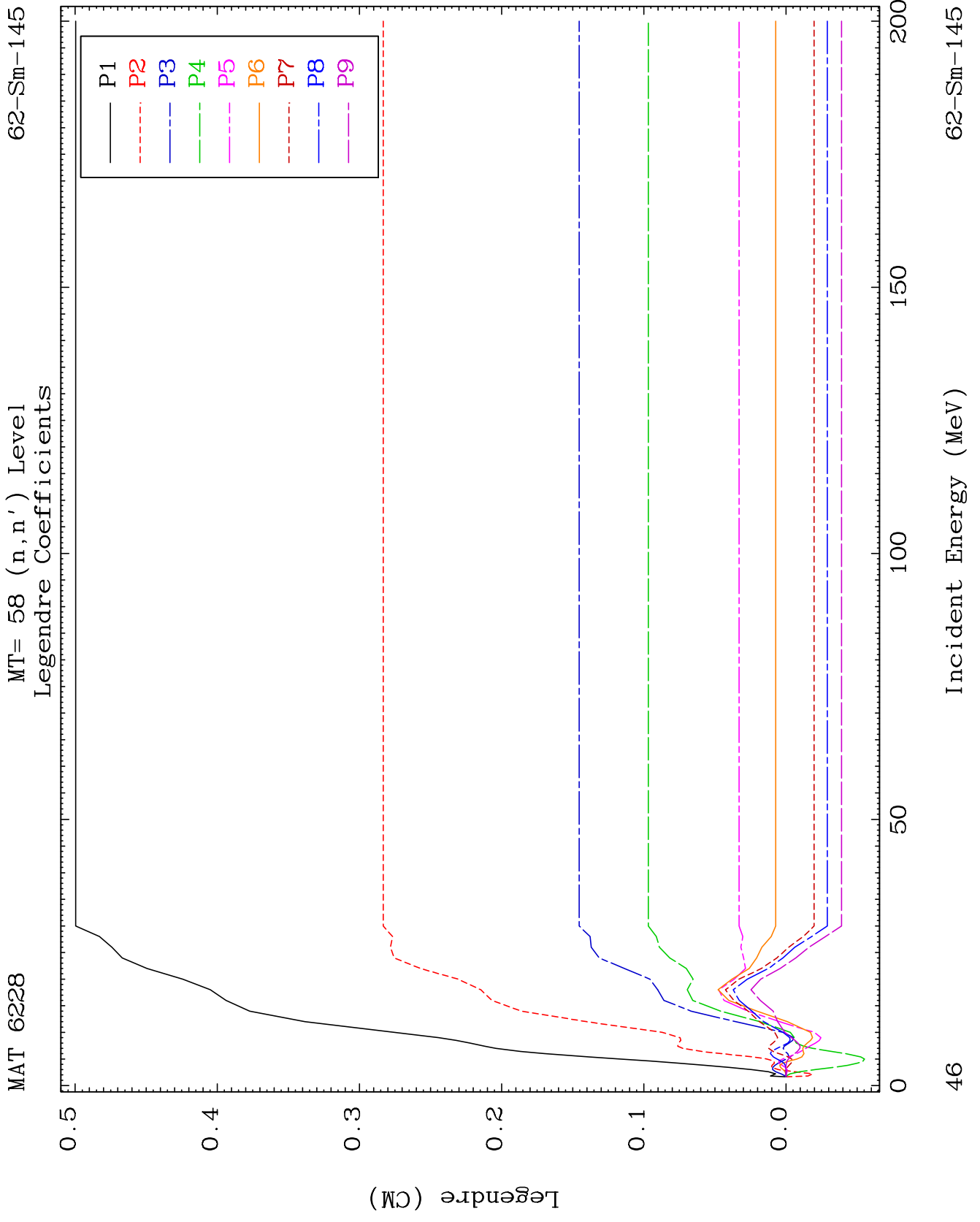
62-Sm-145



44

Incident Energy (MeV)

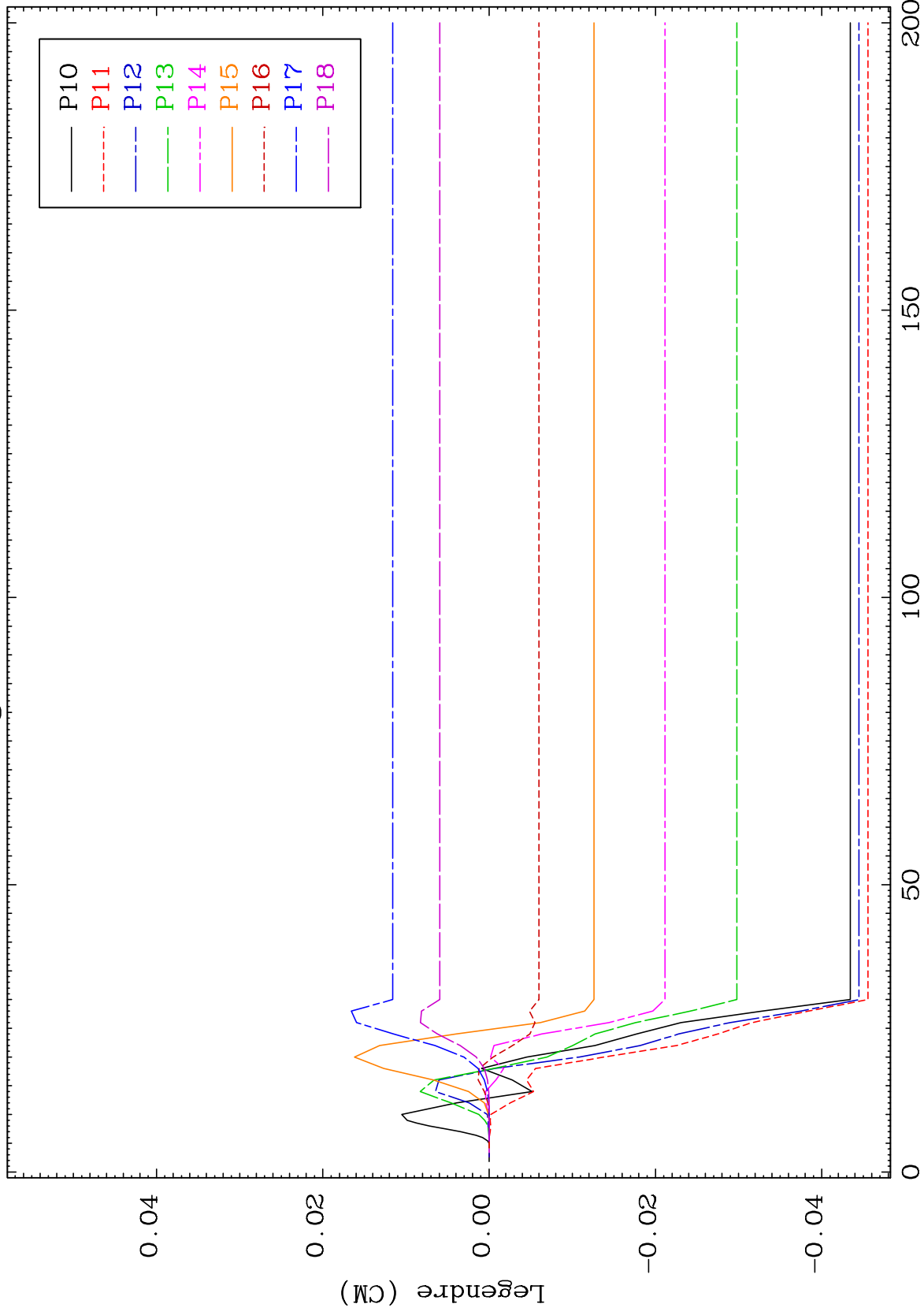
62-Sm-145



MAT 6228

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

62-Sm-145



47

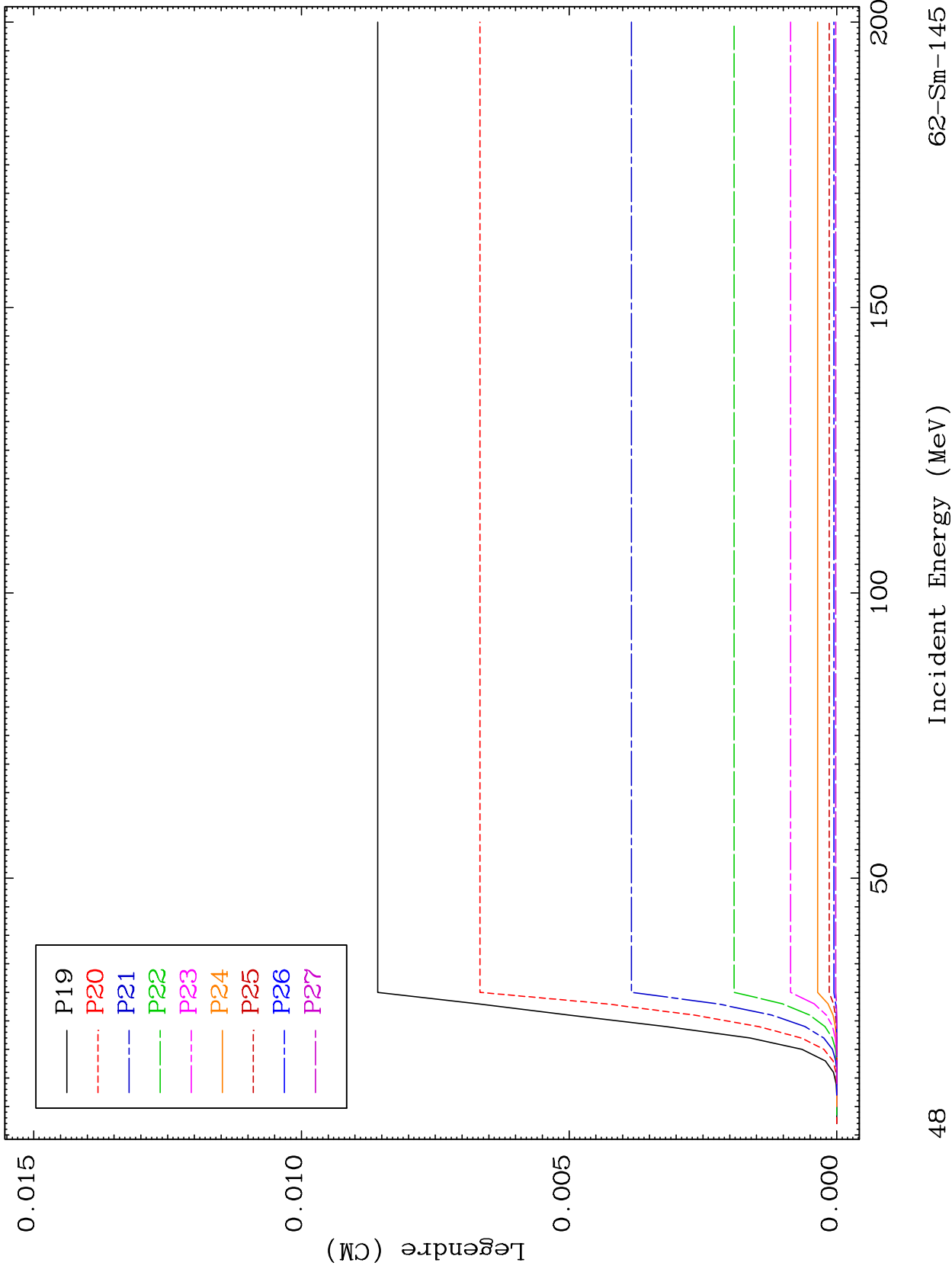
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



48

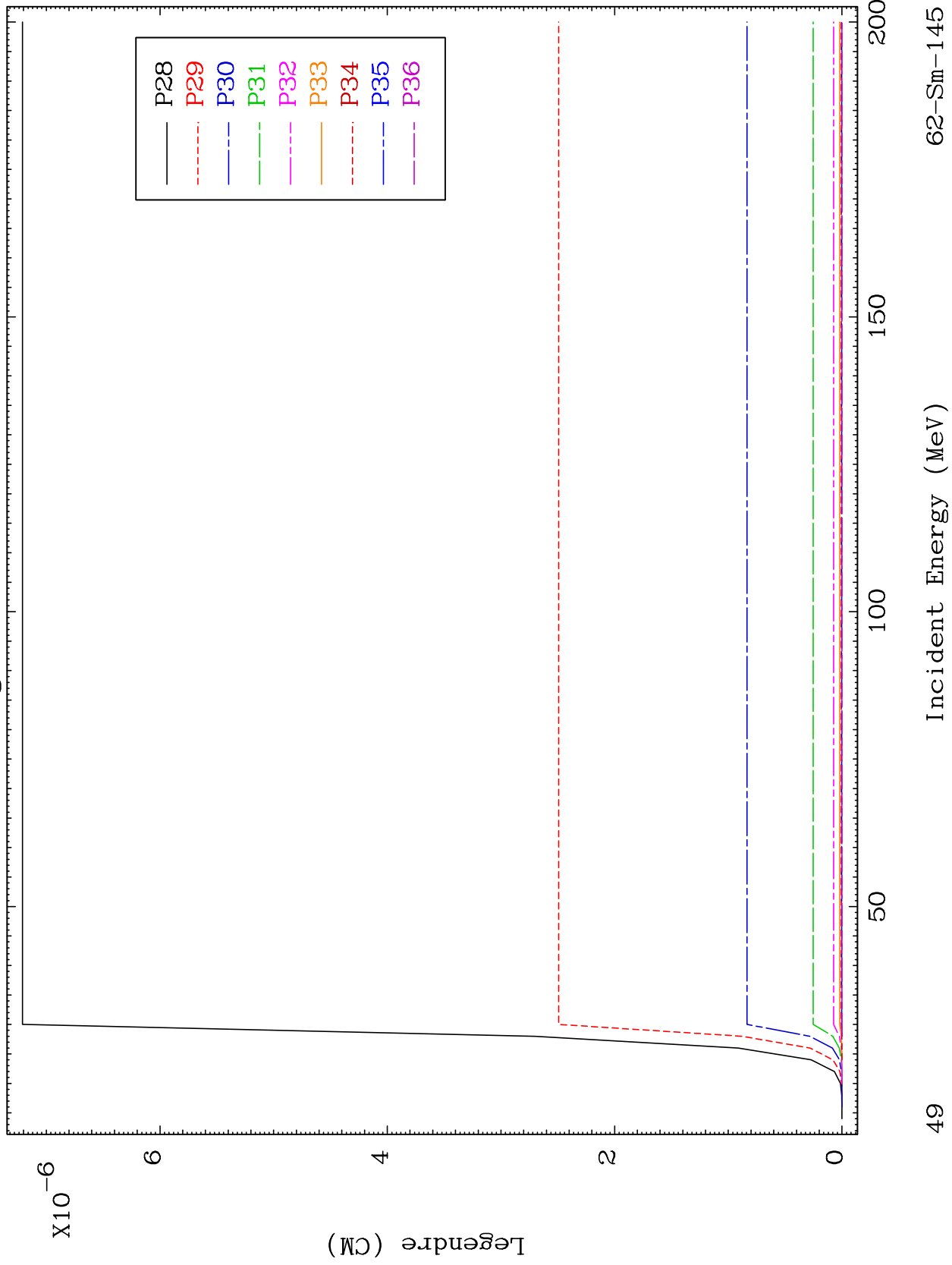
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



49

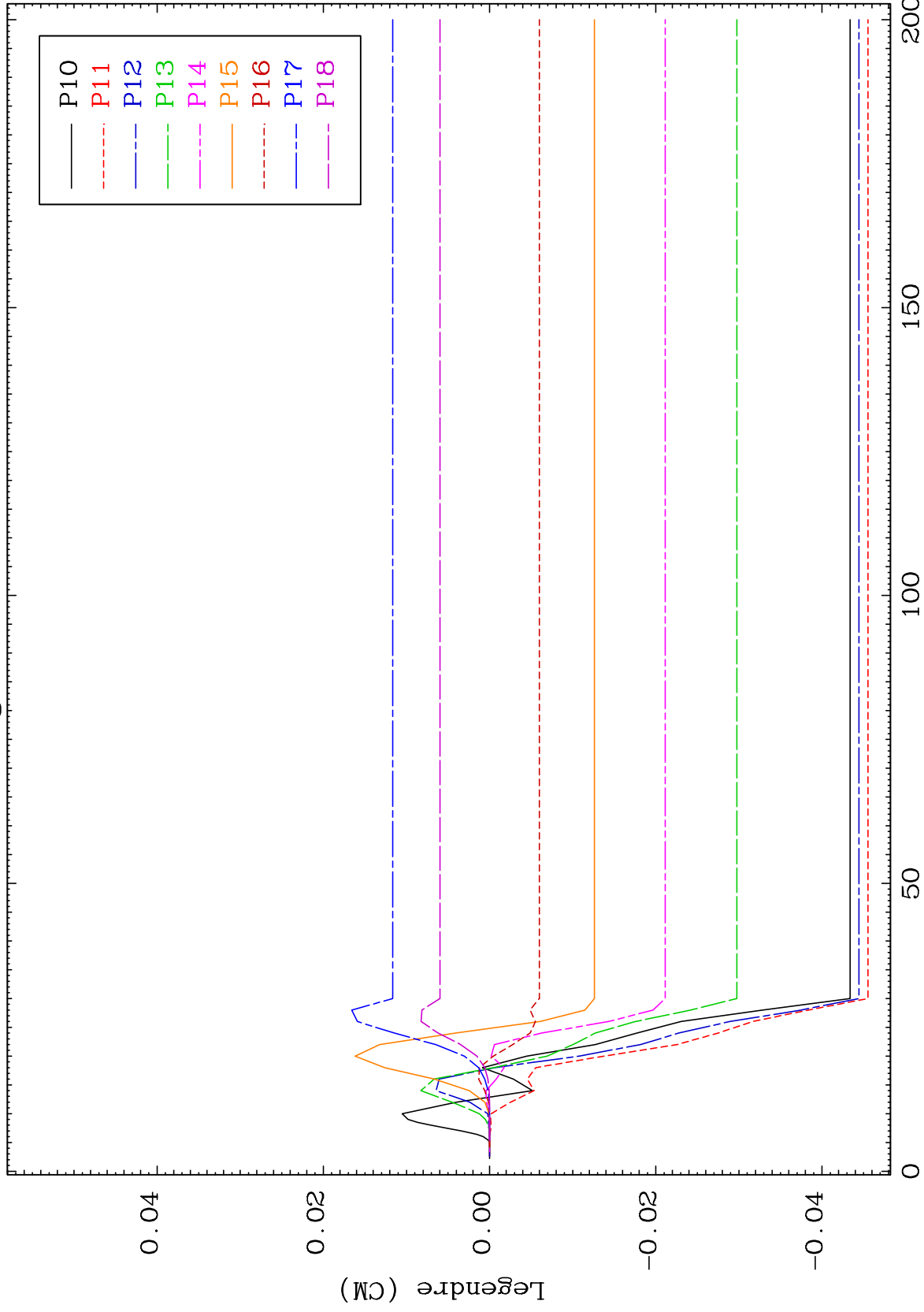
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



51

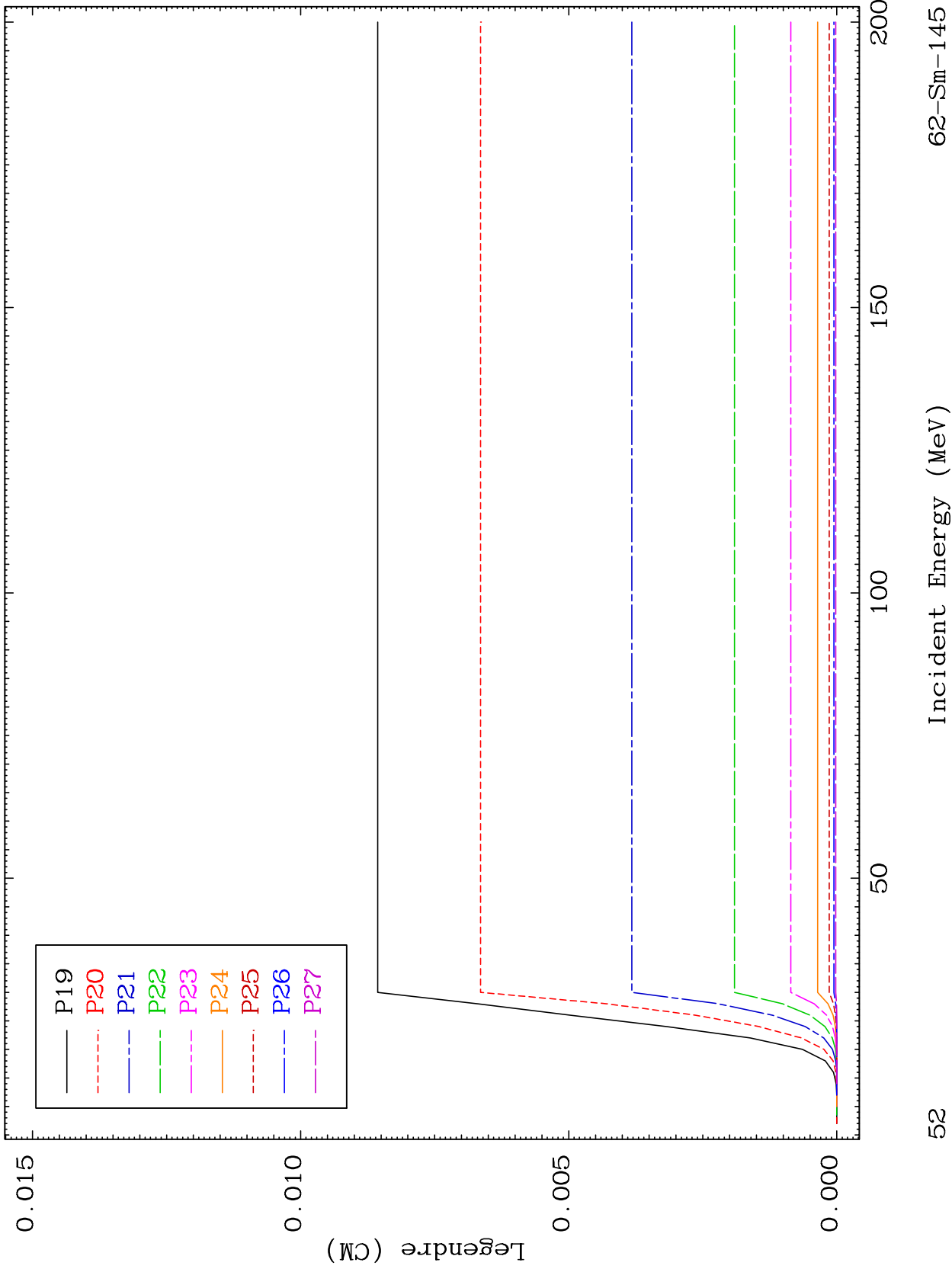
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



52

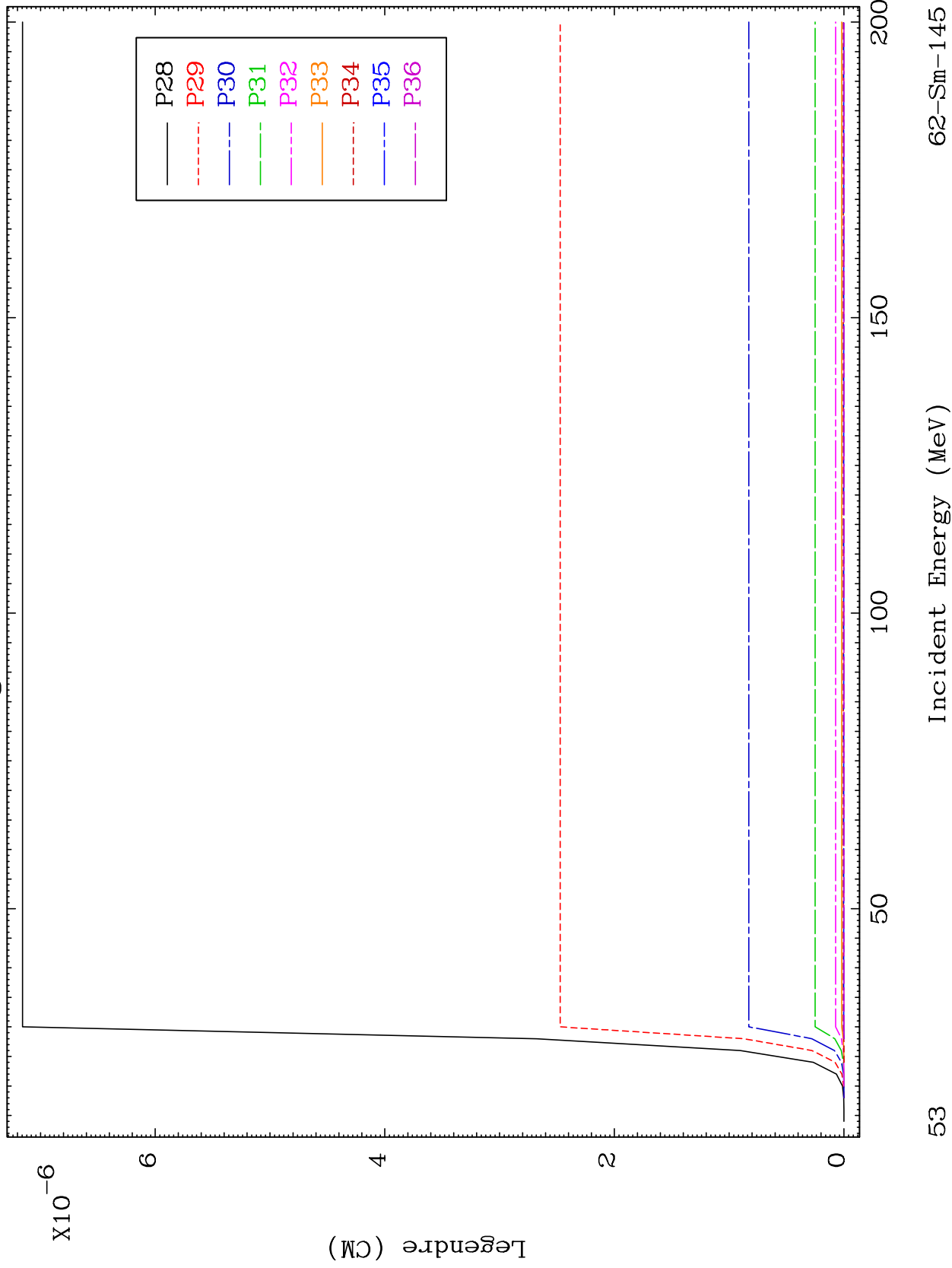
Incident Energy (MeV)

62-Sm-145

MAT 6228

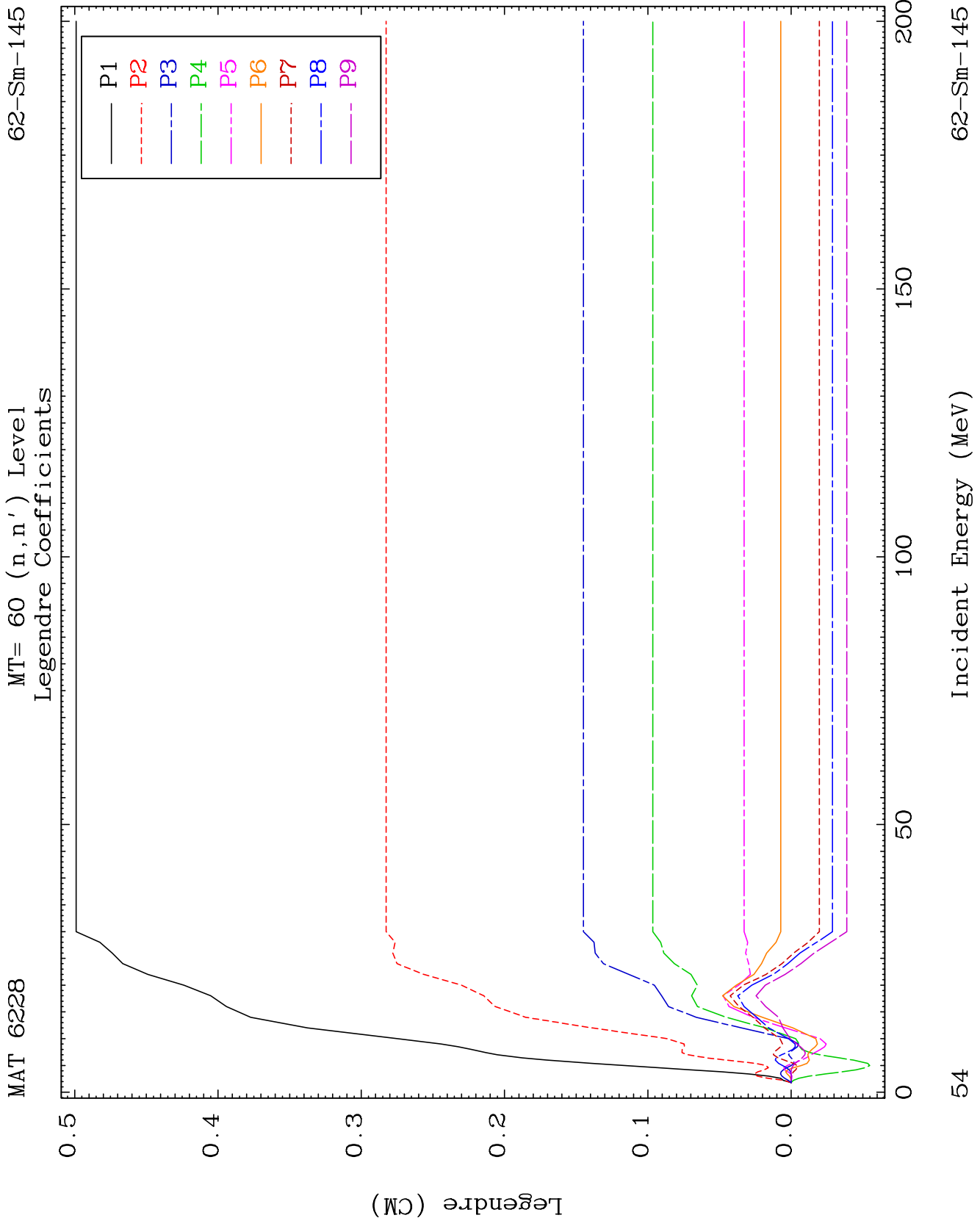
MT= 59 (n,n') Level
Legendre Coefficients

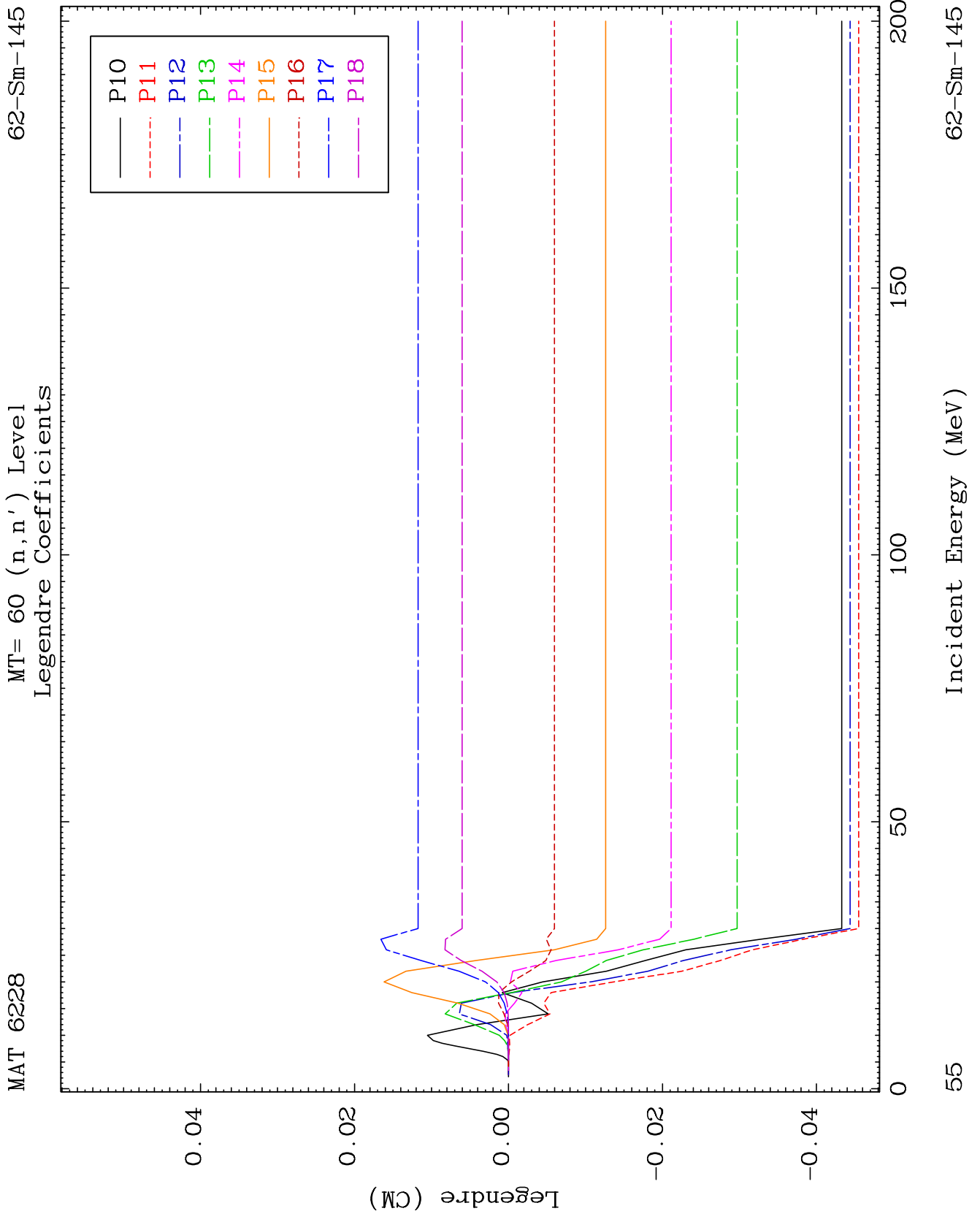
62-Sm-145



53

62-Sm-145

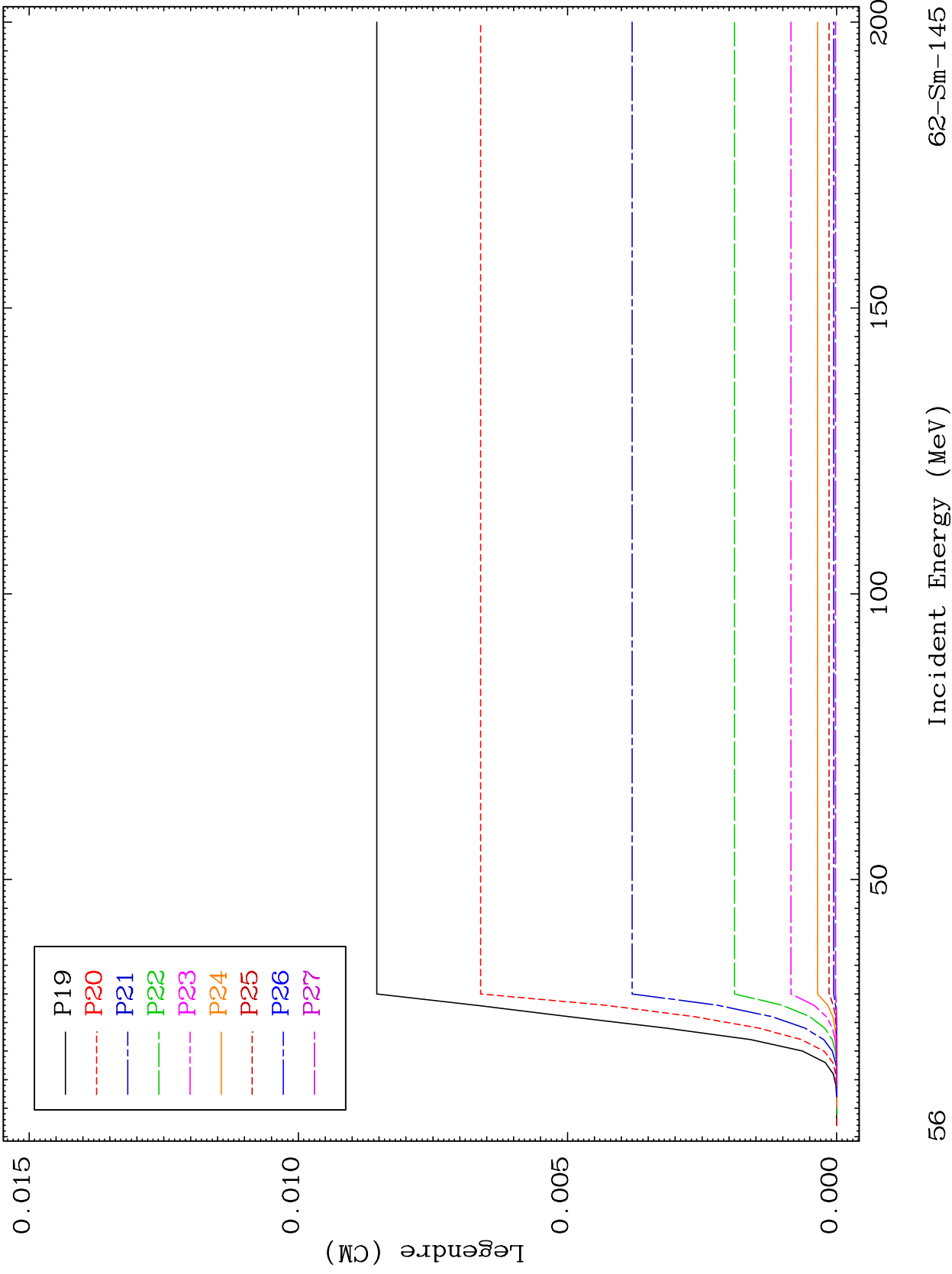




MAT 6228

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

62-Sm-145



56

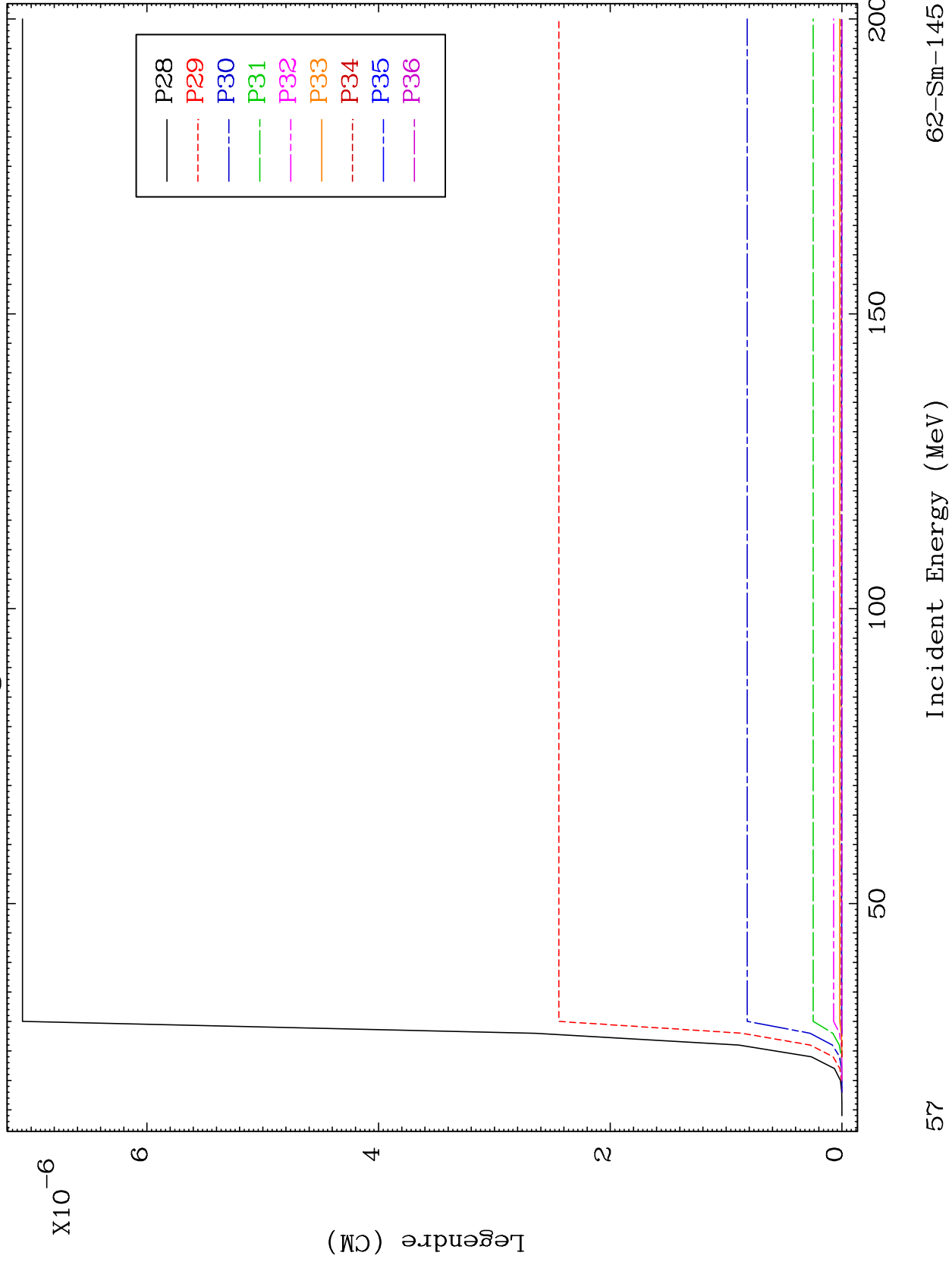
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

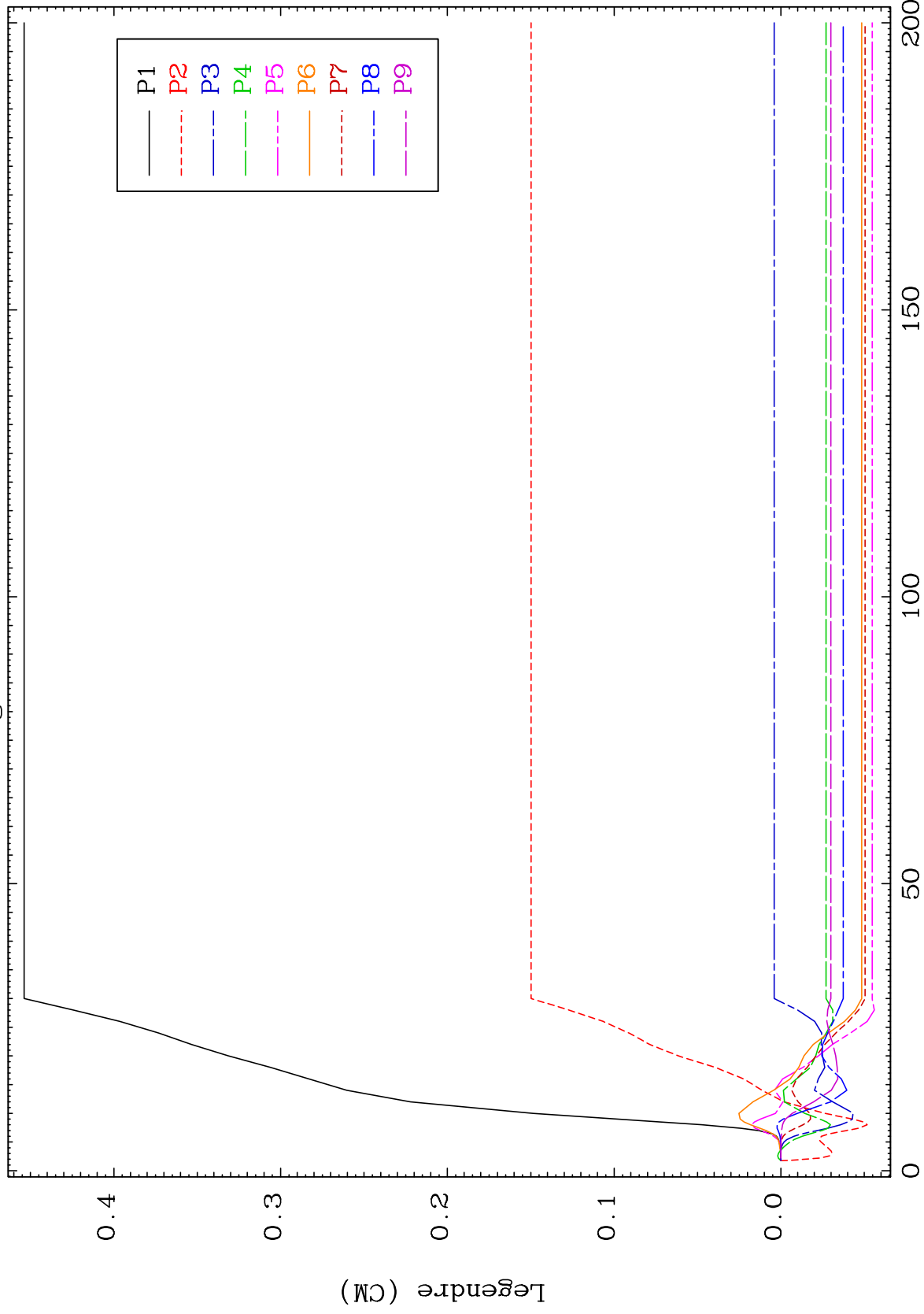
62-Sm-145



MAT 6228

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

62-Sm-145



58

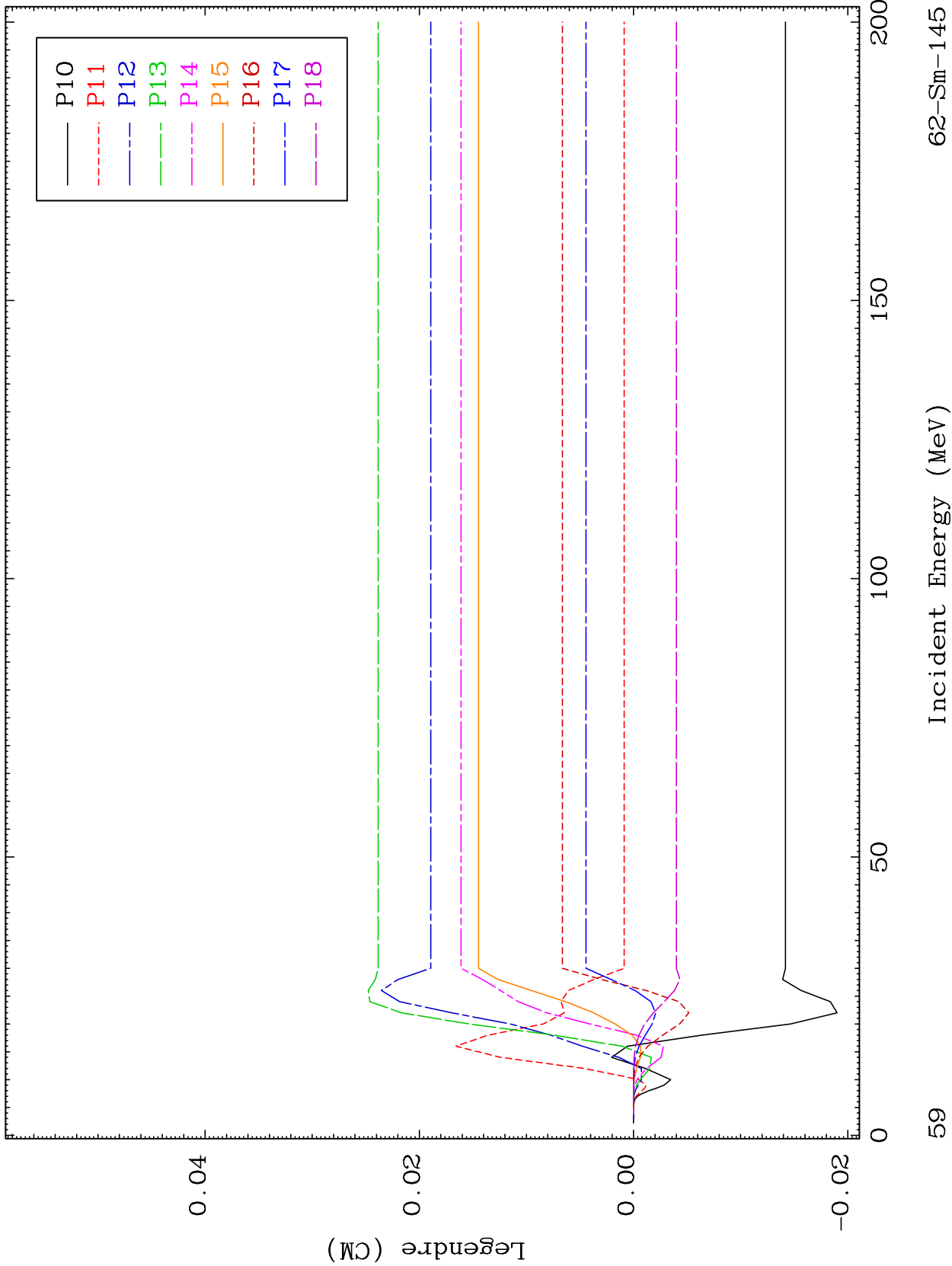
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

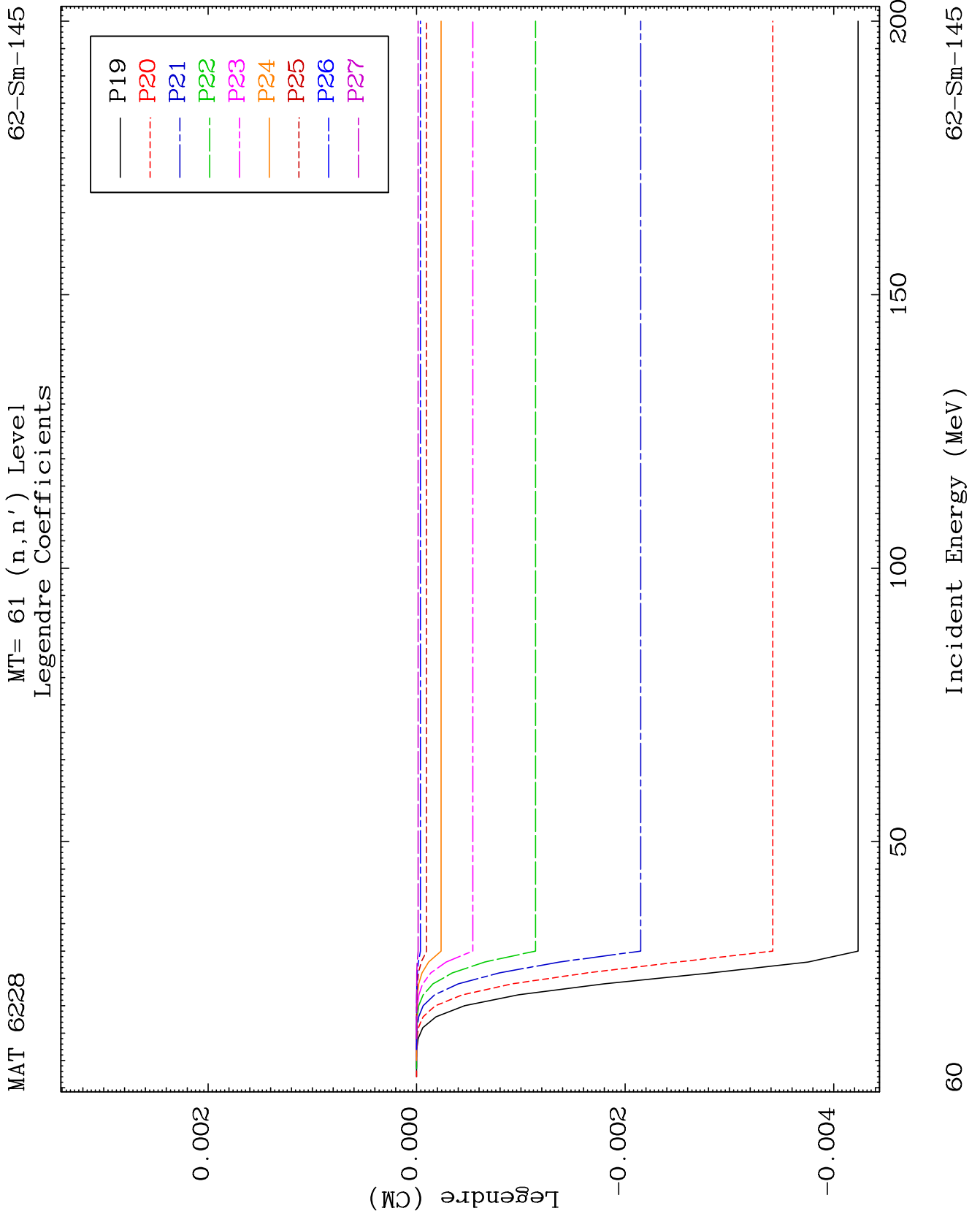
62-Sm-145

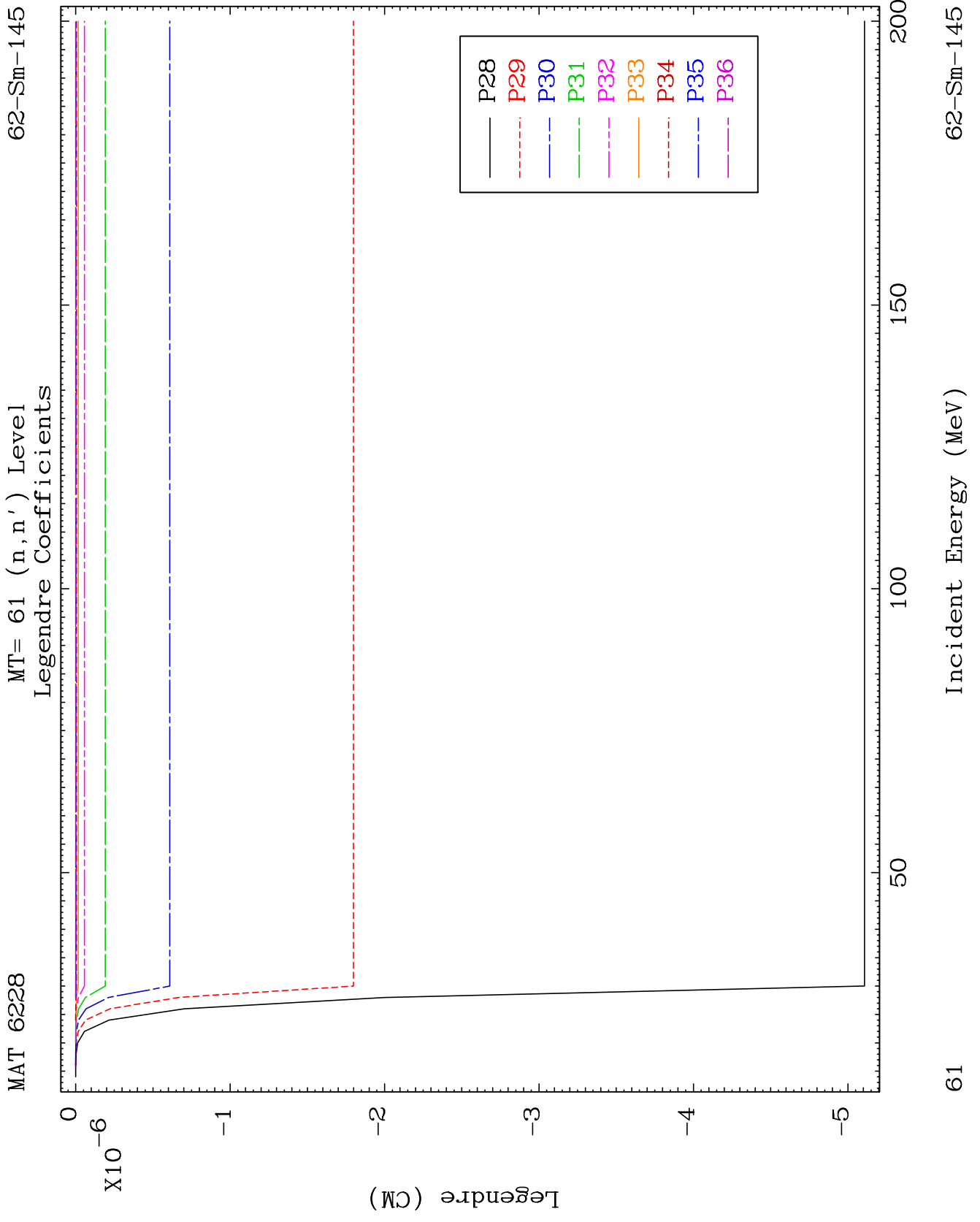


62-Sm-145

Incident Energy (MeV)

59

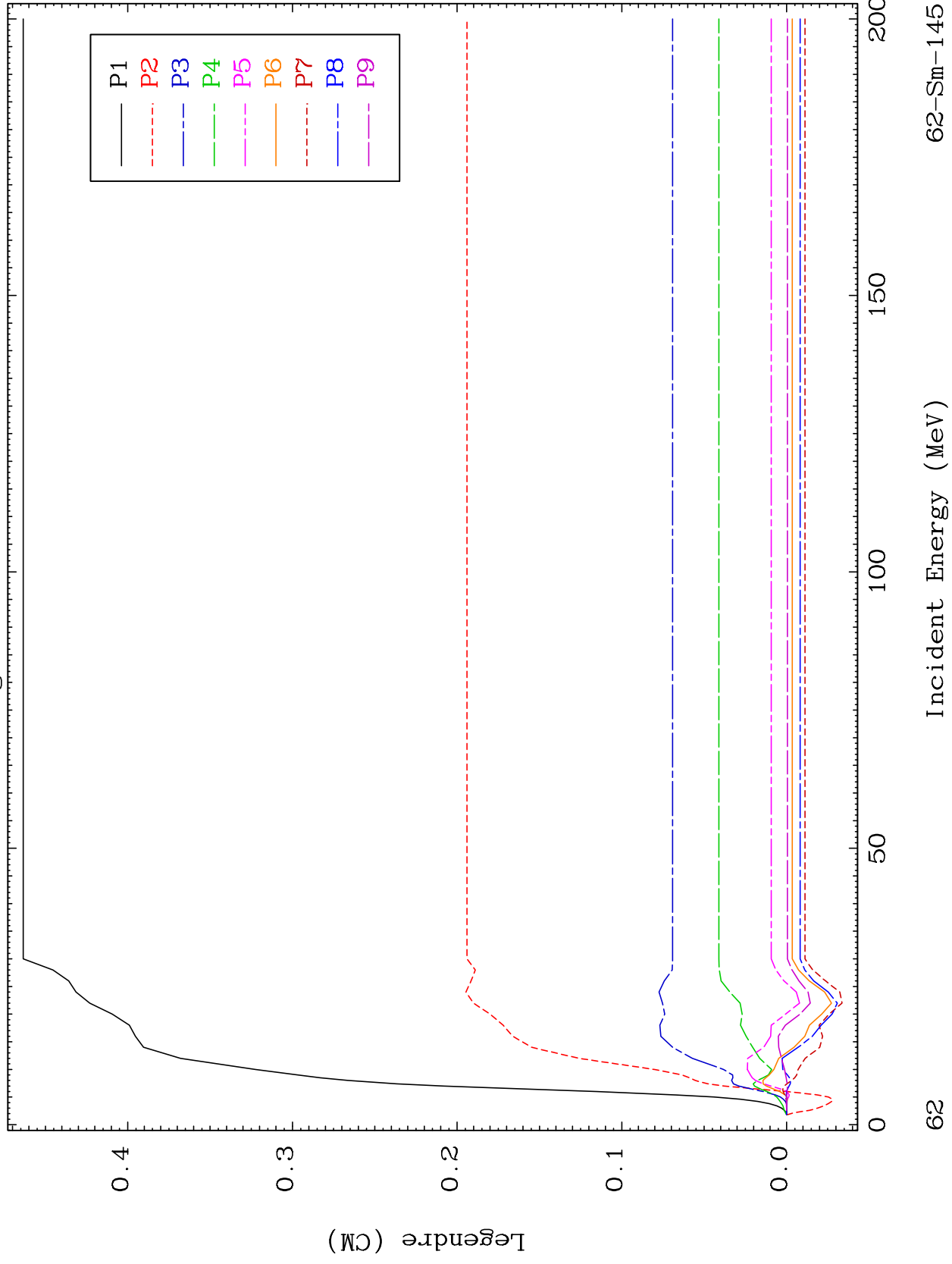




MAT 6228

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

62-Sm-145



62-Sm-145

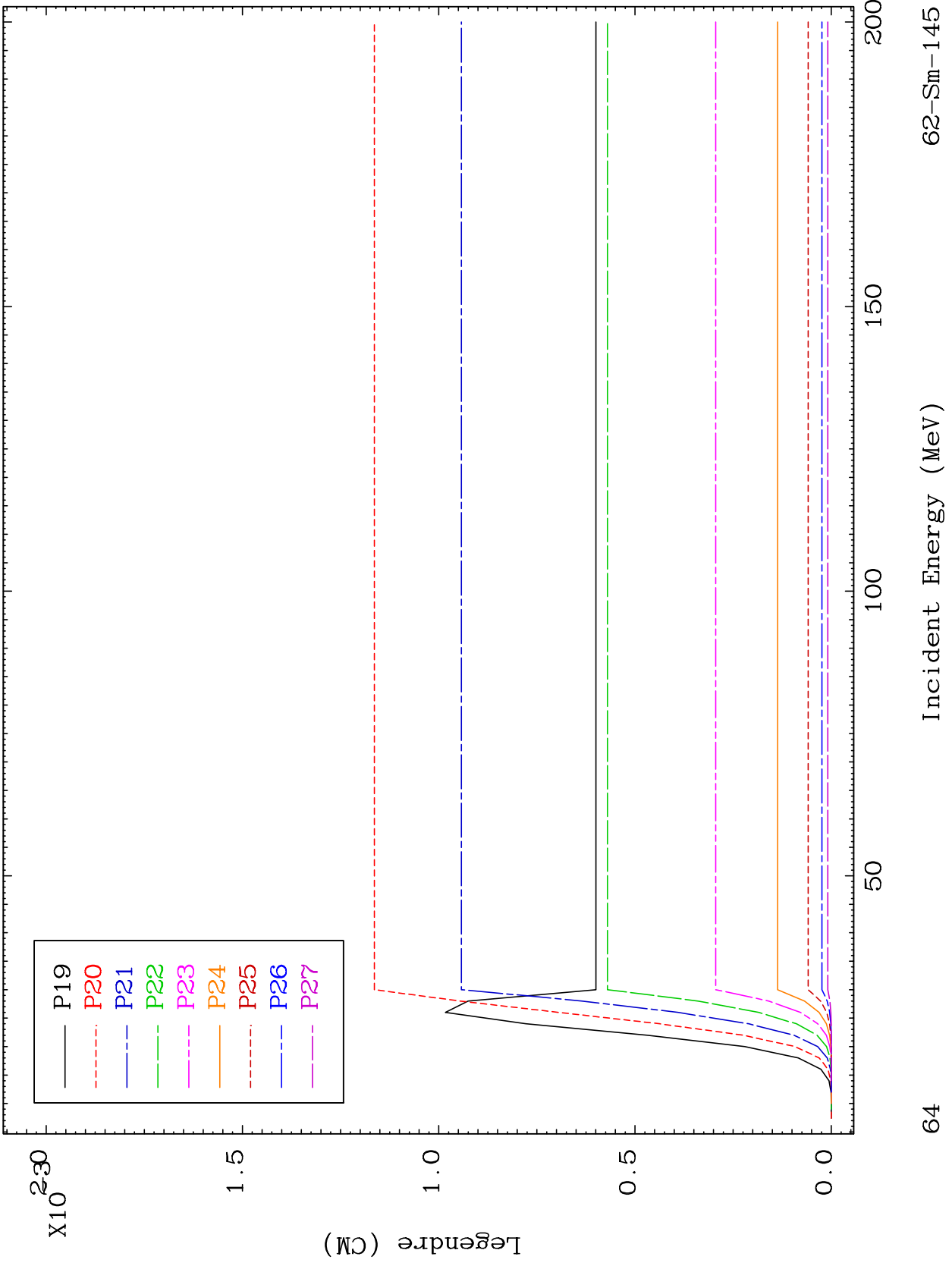
Incident Energy (MeV)

62

MAT 6228

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

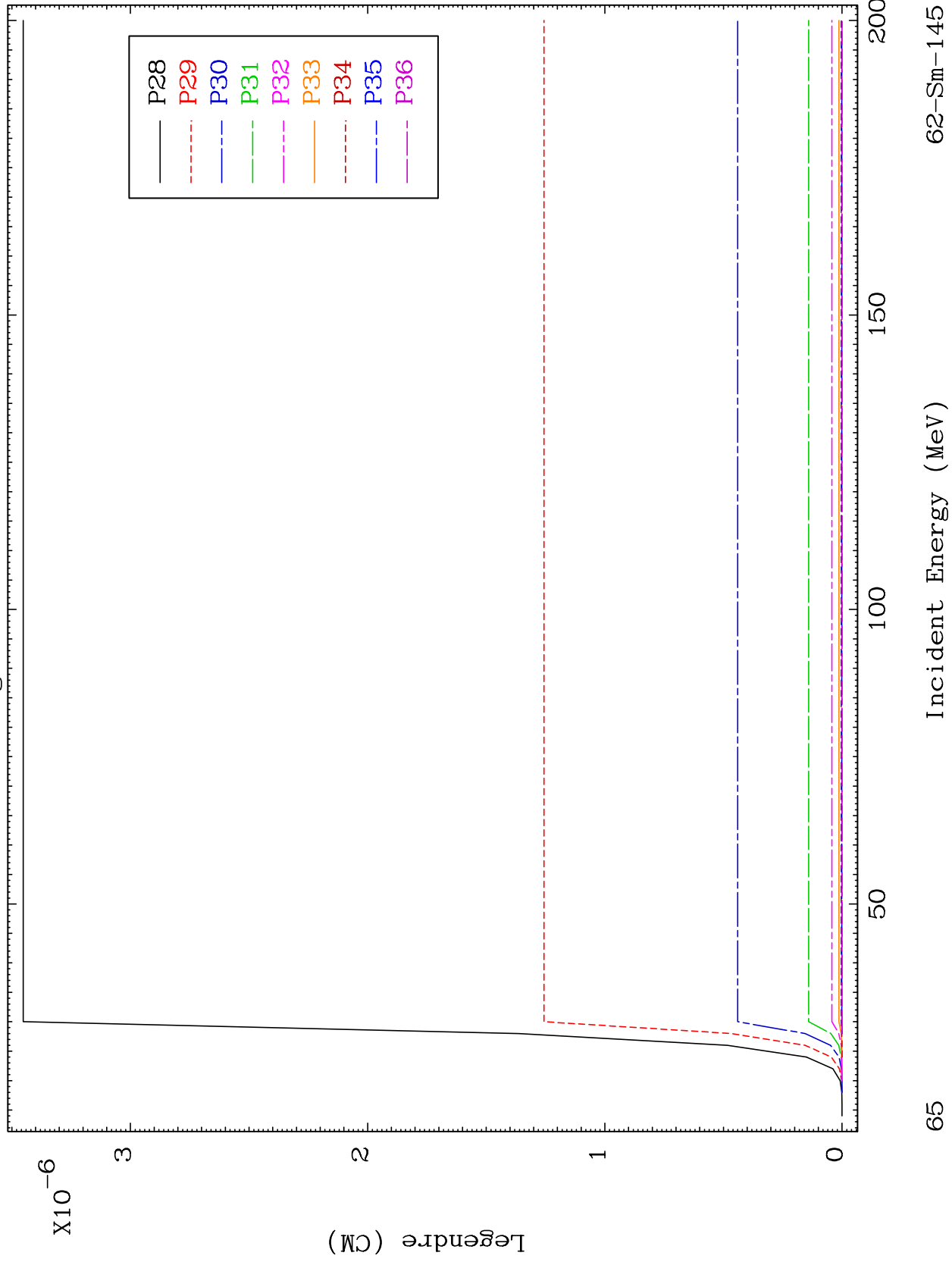
62-Sm-145



MAT 6228

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

62-Sm-145



65

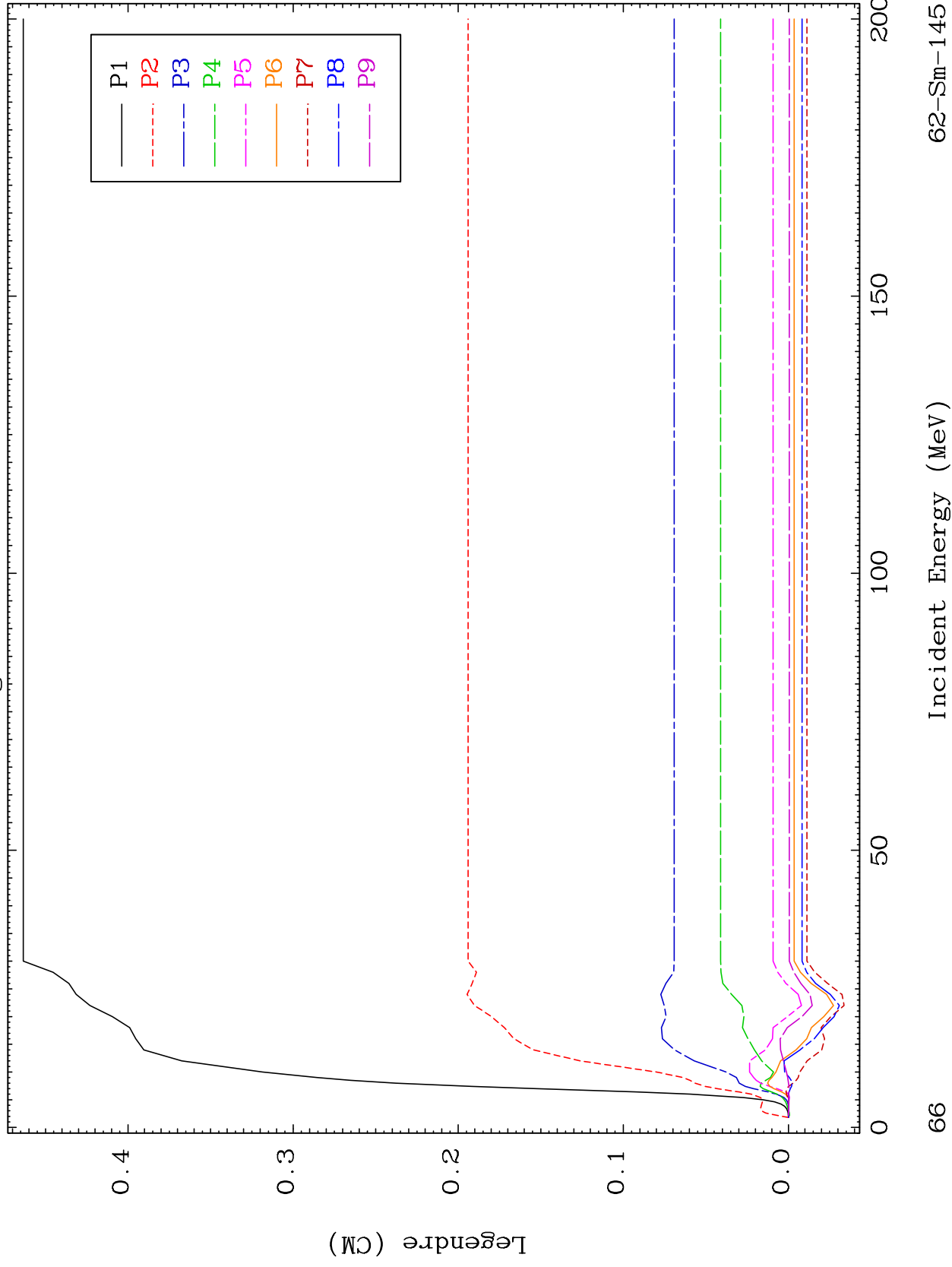
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

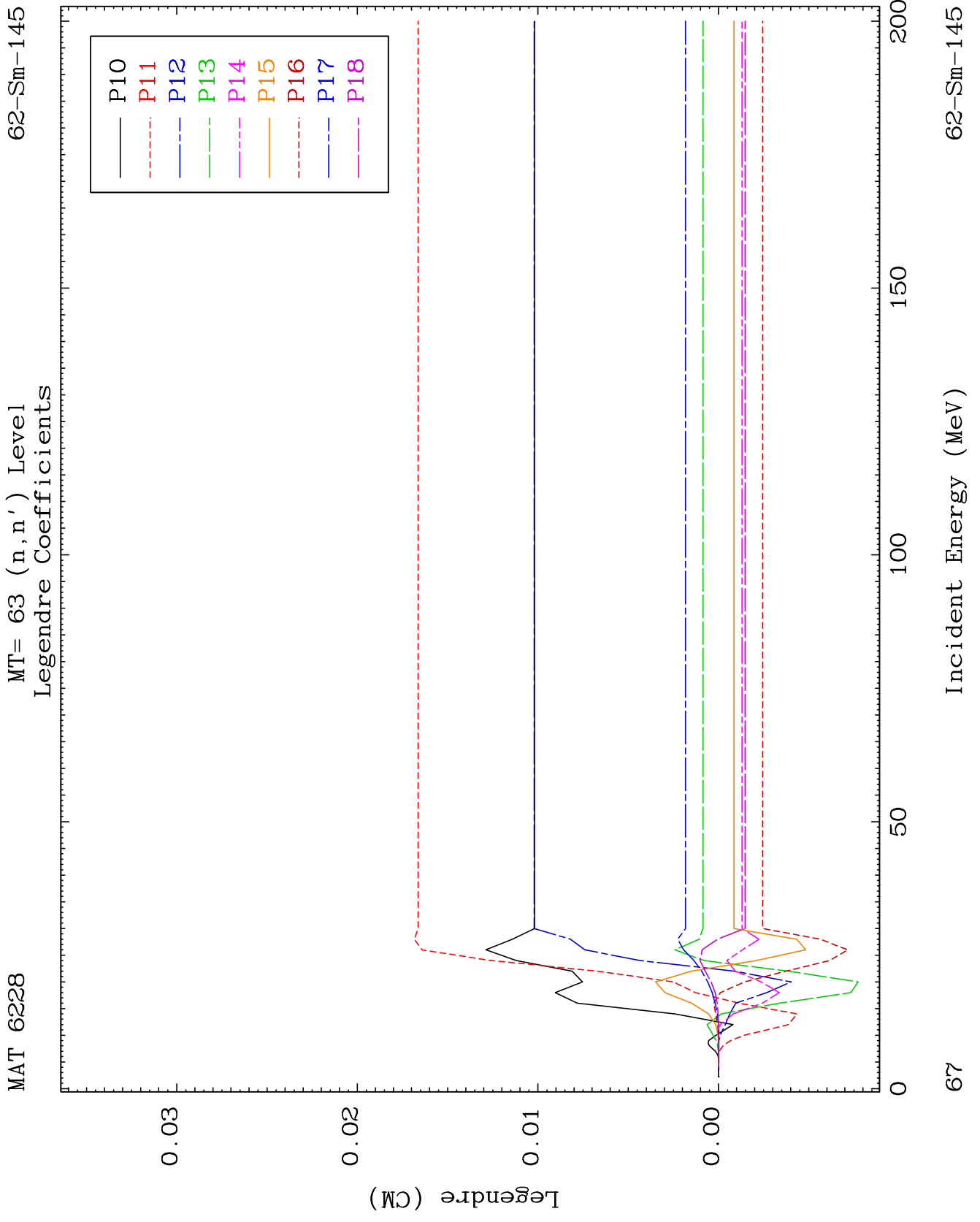
62-Sm-145

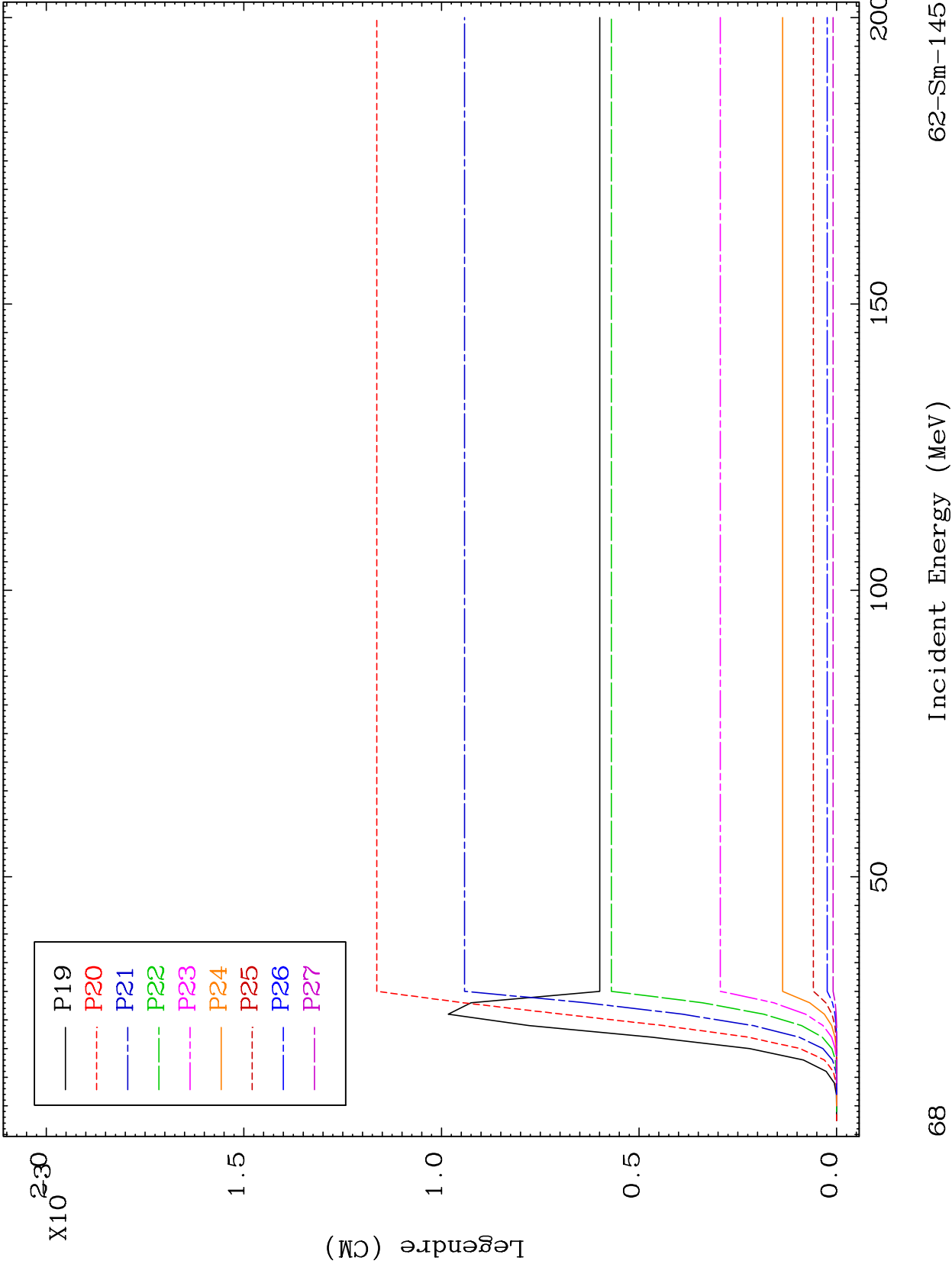


62-Sm-145

Incident Energy (MeV)

66

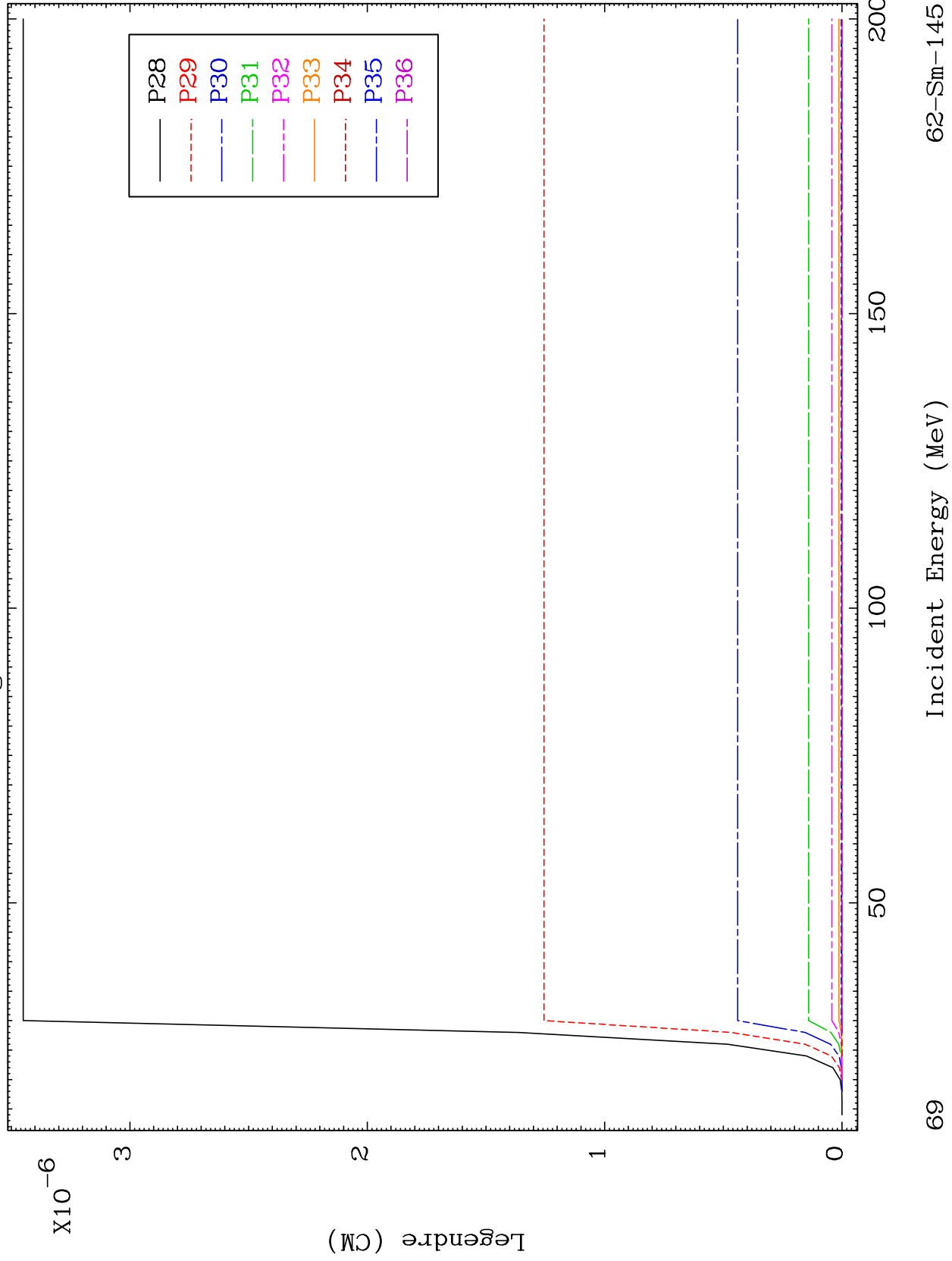




MAT 6228

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

62-Sm-145



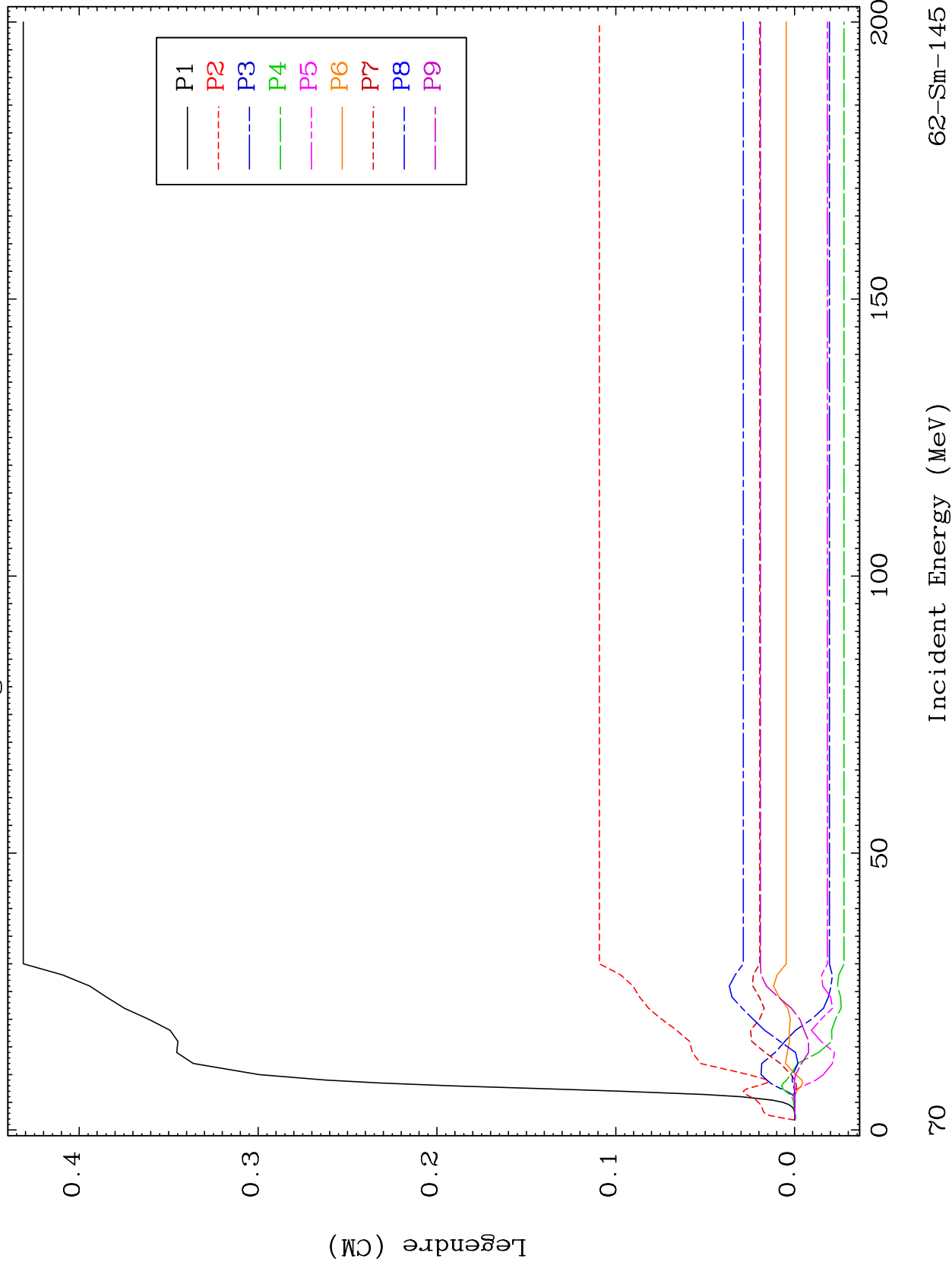
69

62-Sm-145

MAT 6228

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

62-Sm-145



62-Sm-145

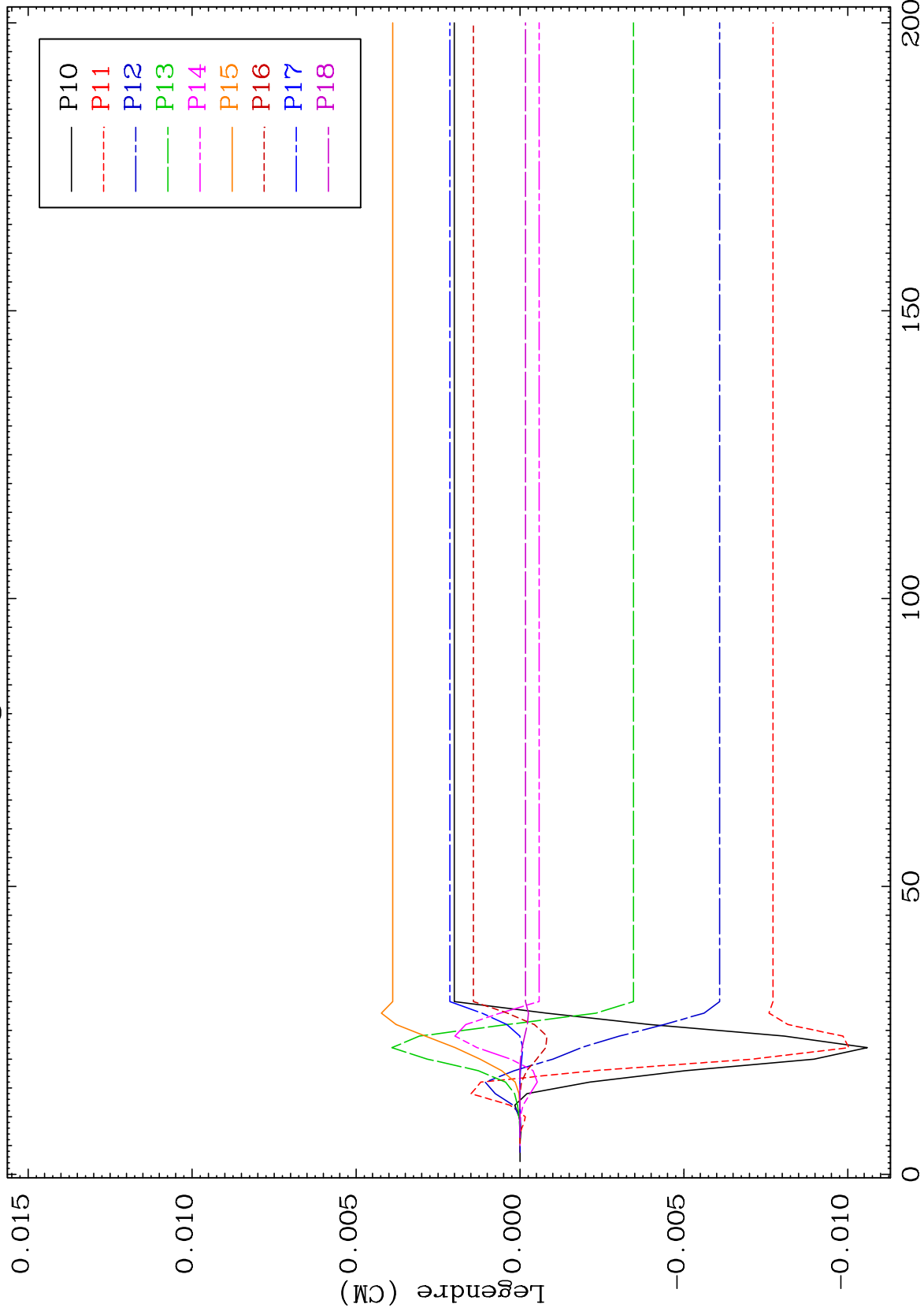
Incident Energy (MeV)

70

MAT 6228

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

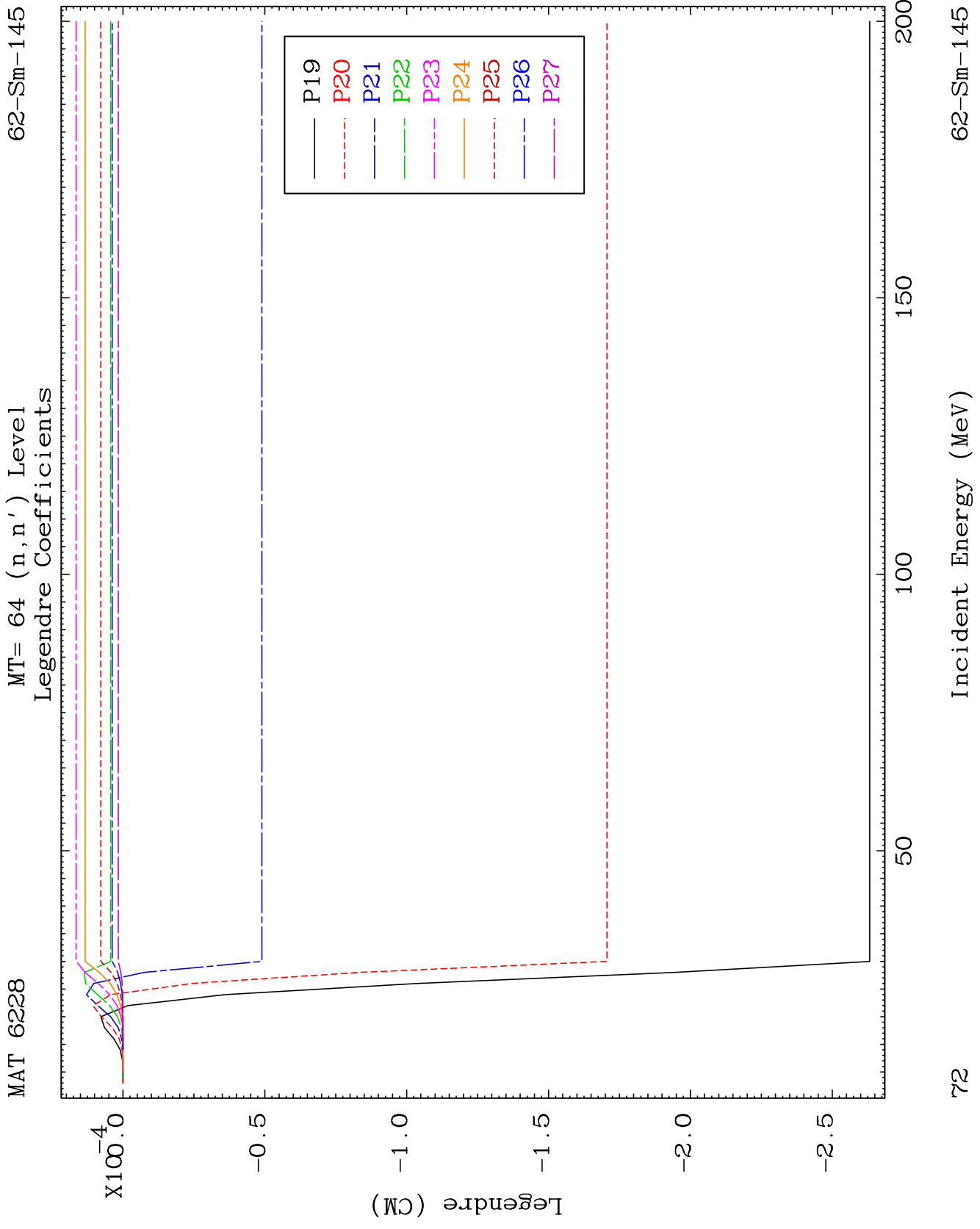
62-Sm-145



71

Incident Energy (MeV)

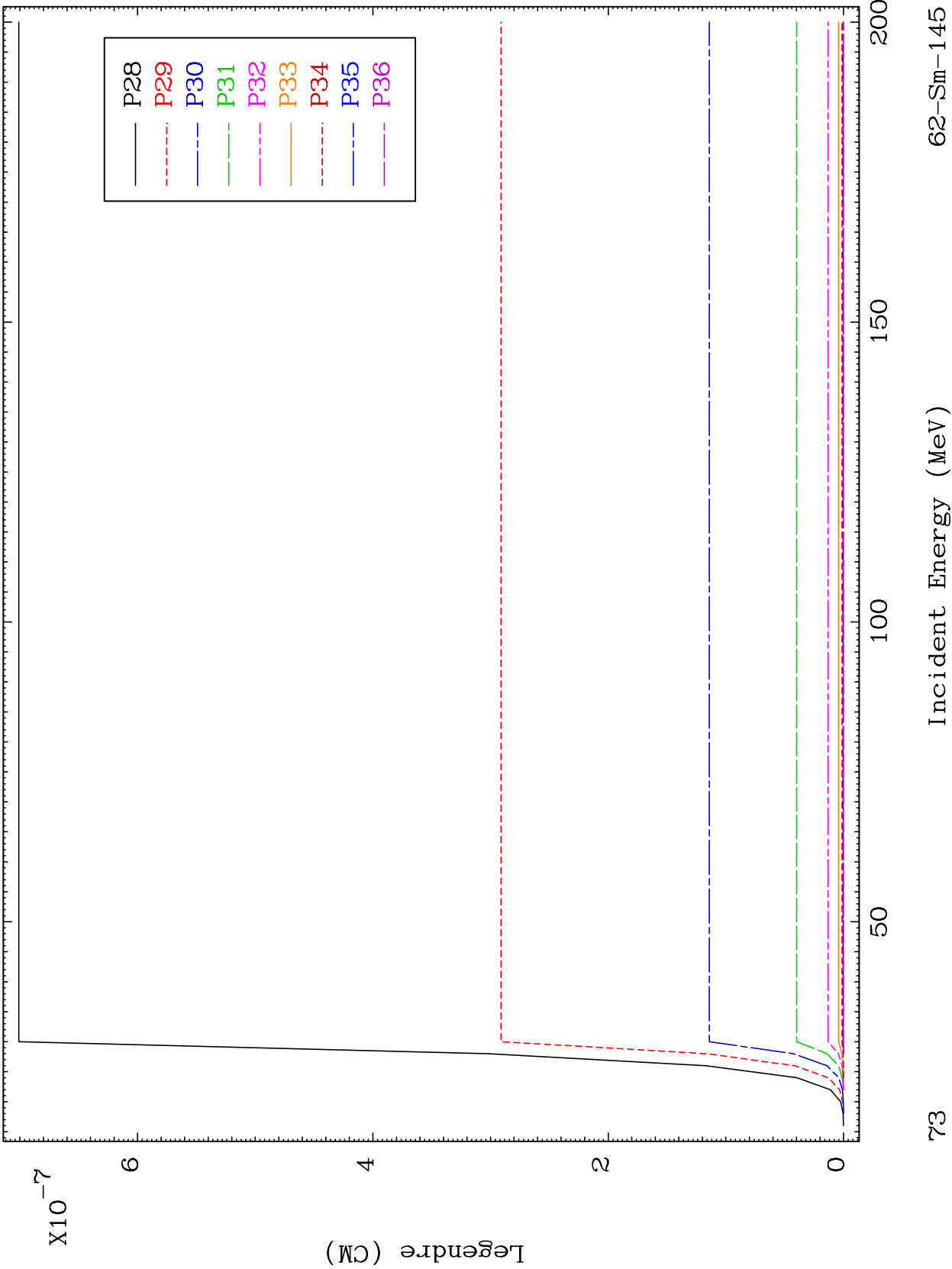
62-Sm-145



MAT 6228

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

62-Sm-145



73

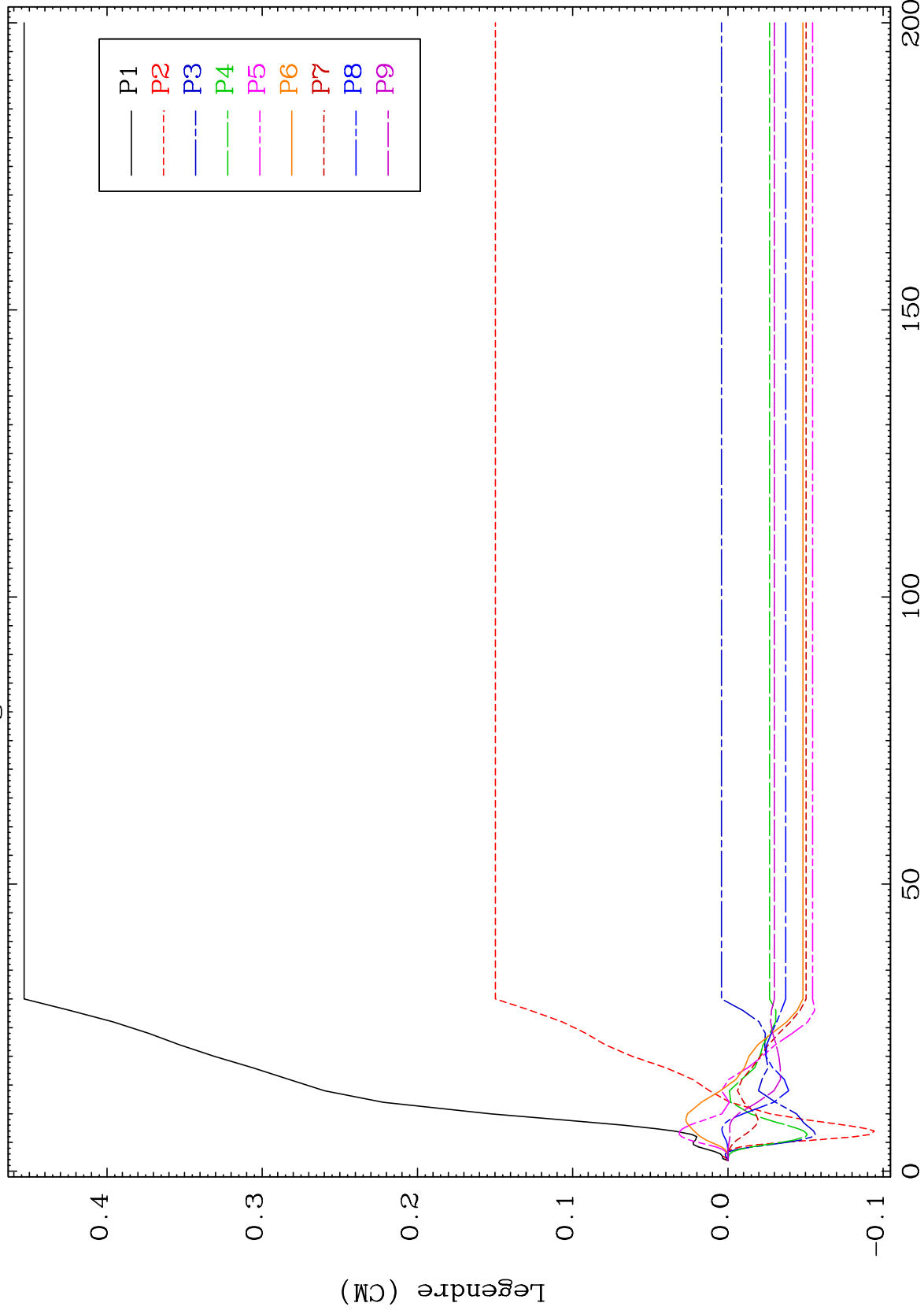
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



74

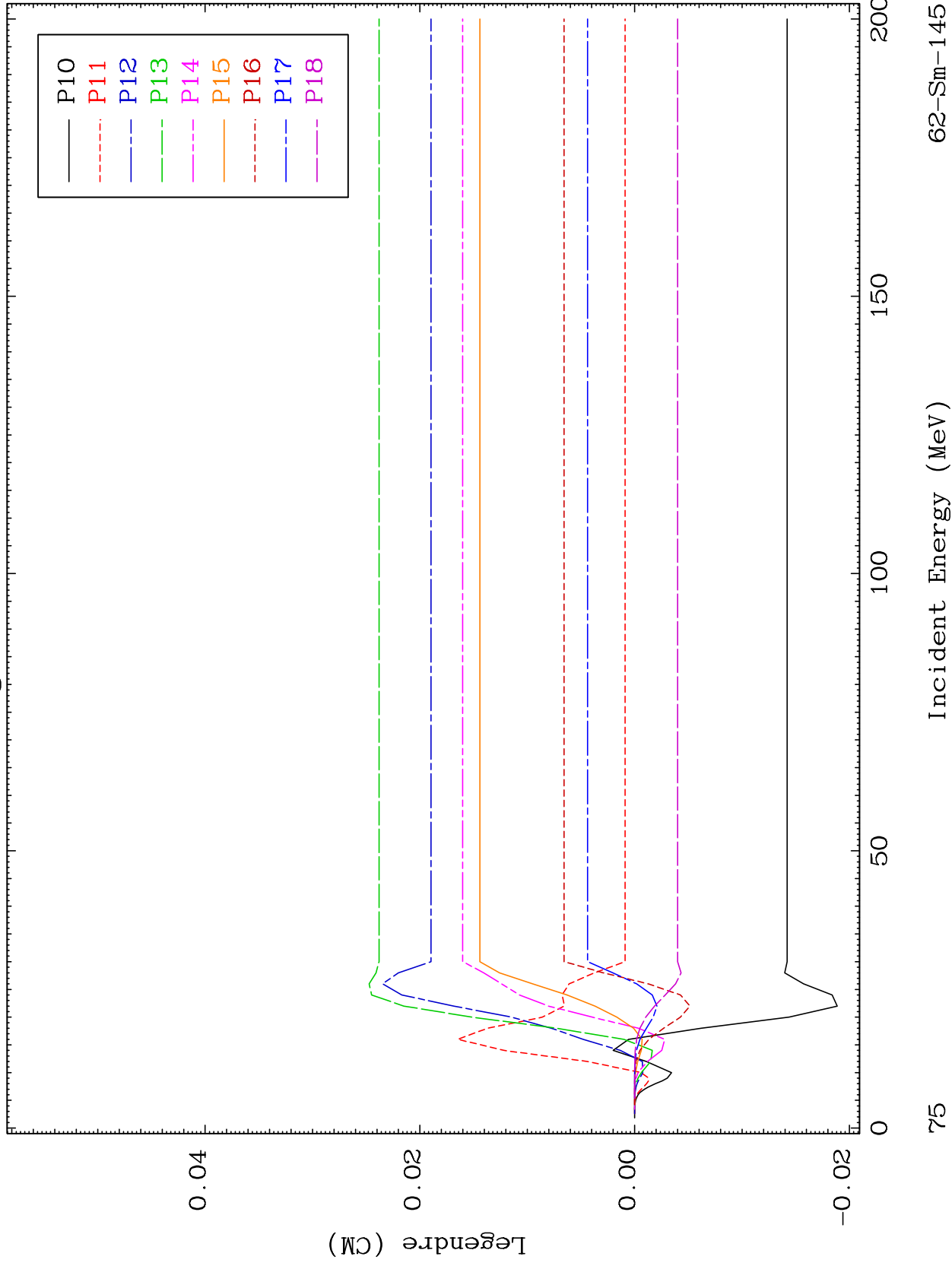
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



62-Sm-145

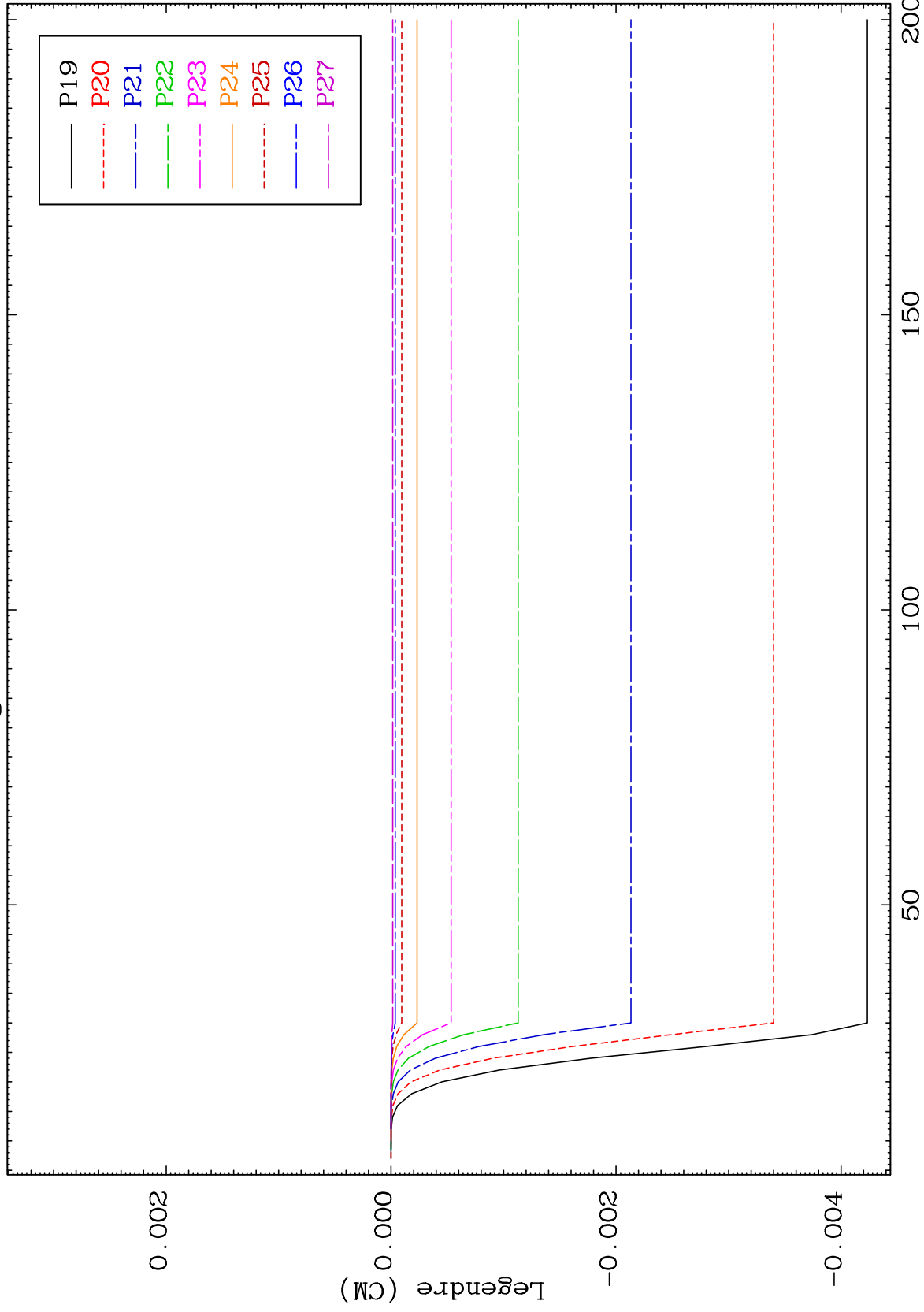
Incident Energy (MeV)

75

MAT 6228

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

62-Sm-145



76

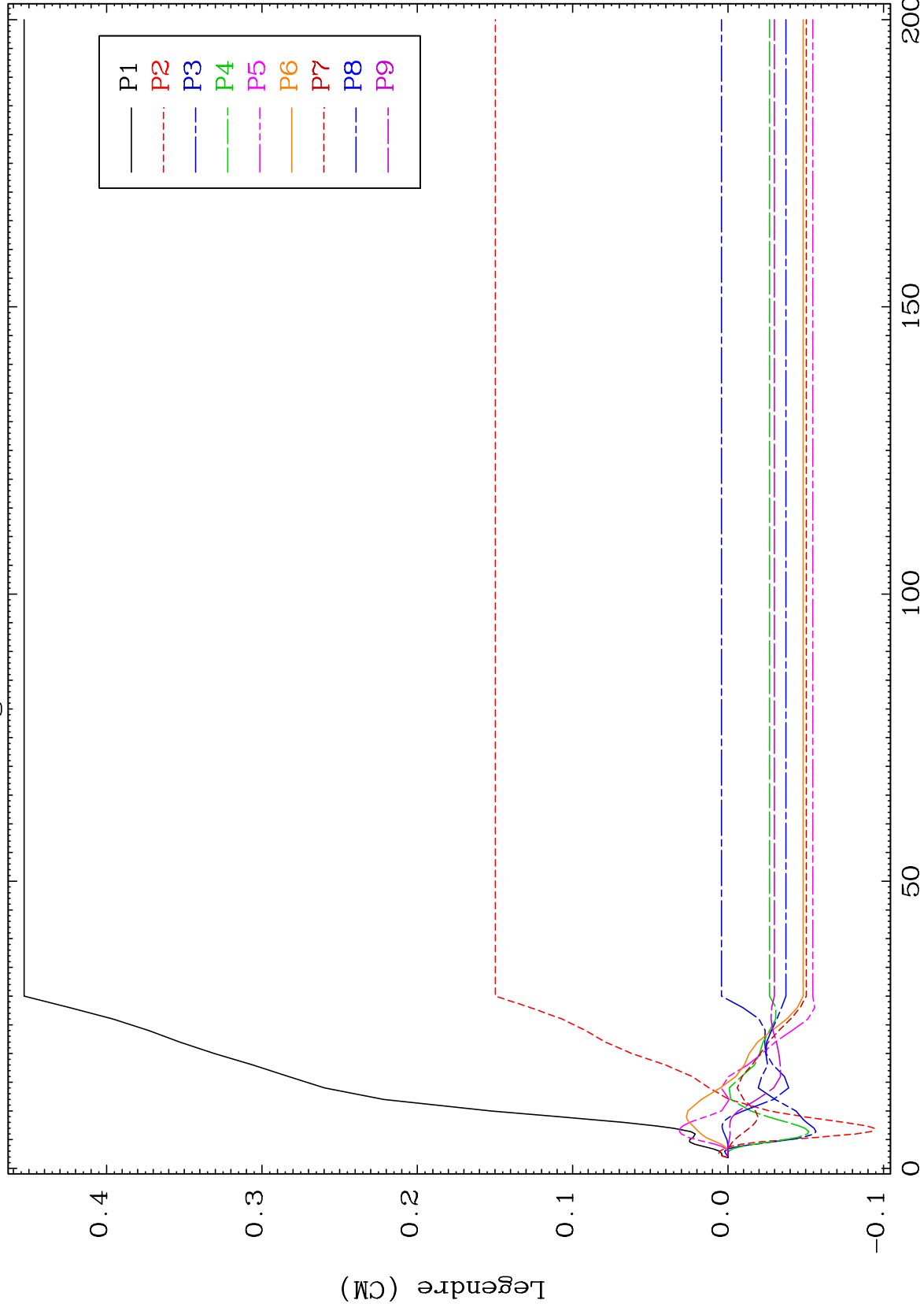
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



78

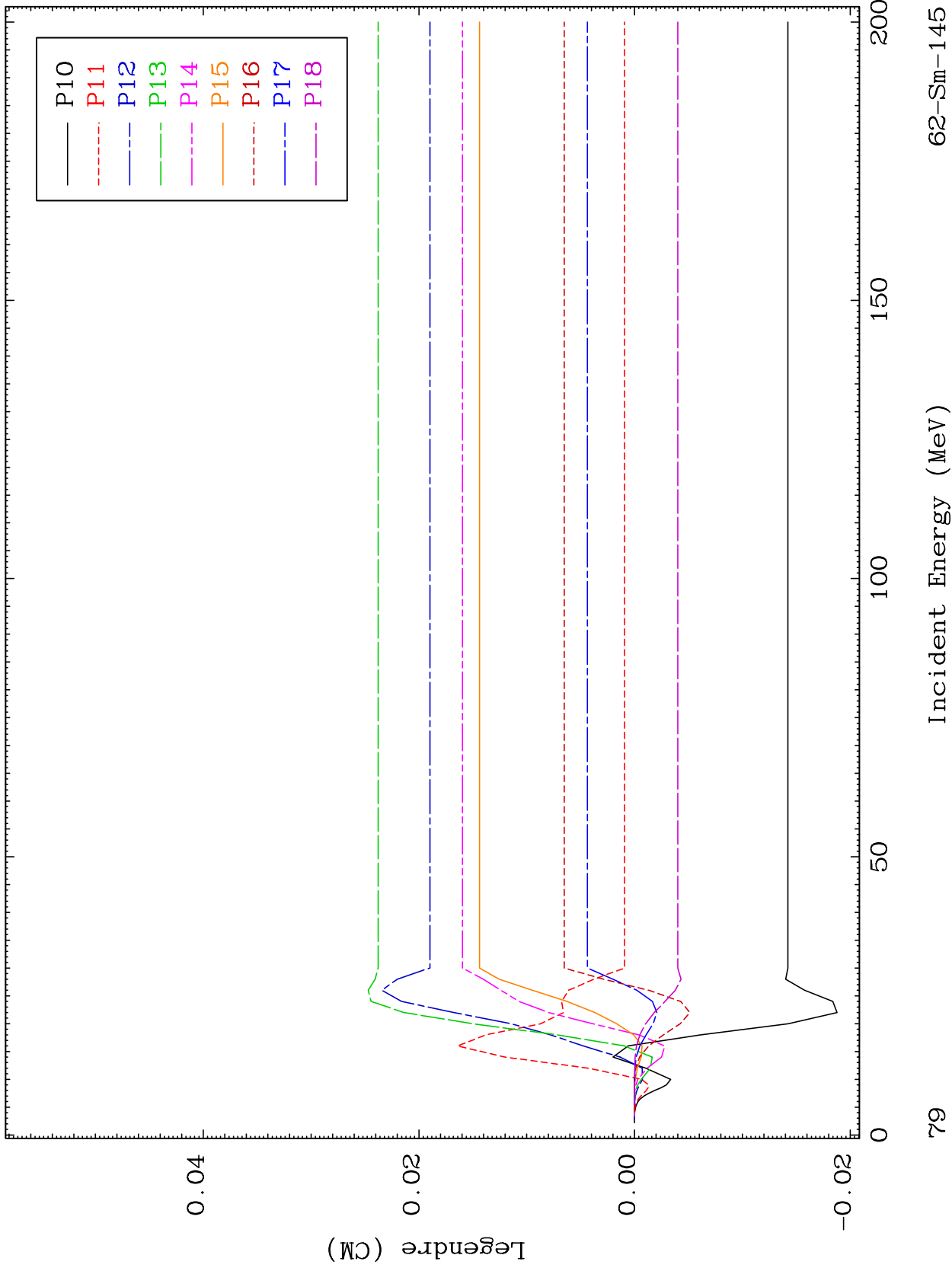
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

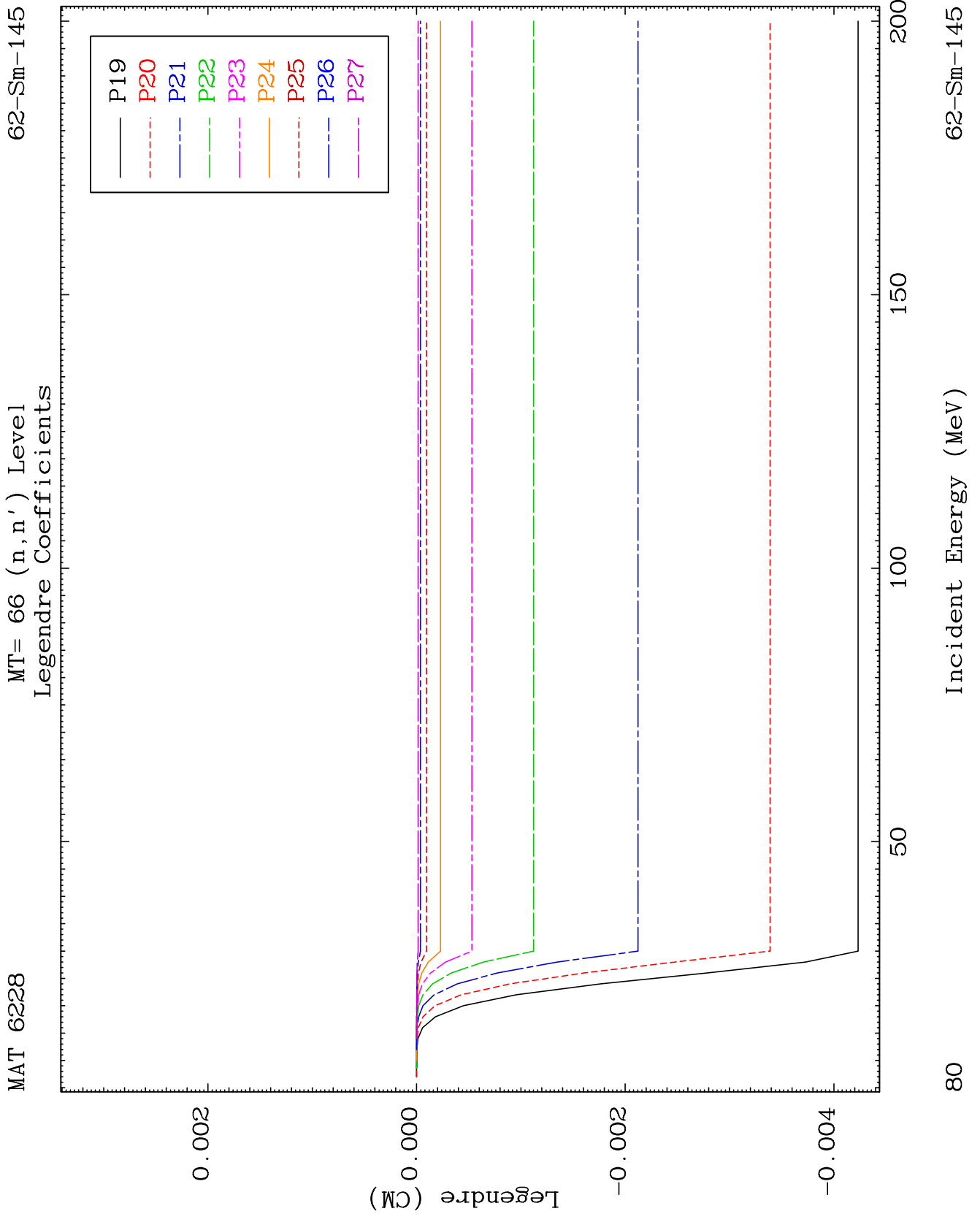
62-Sm-145

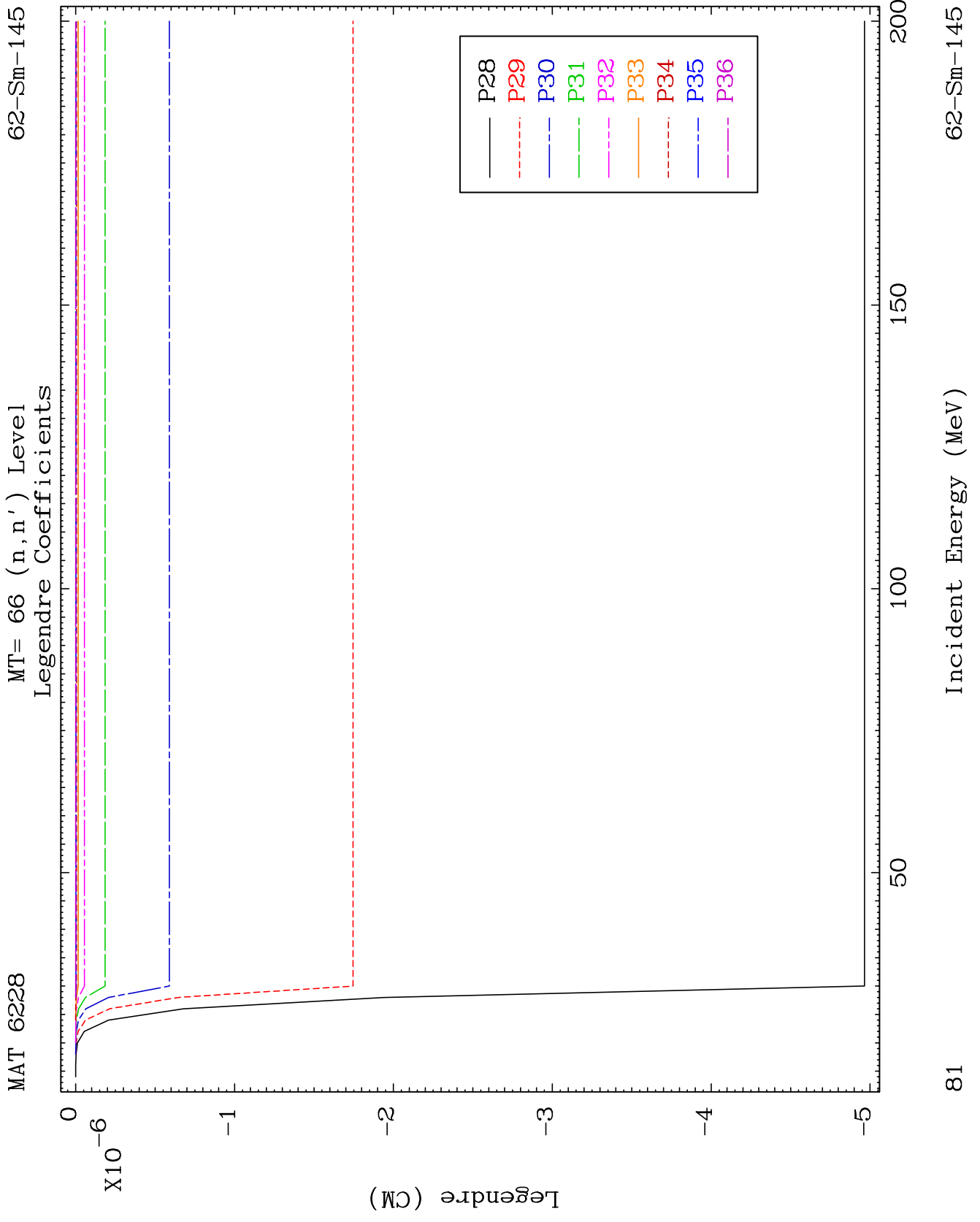


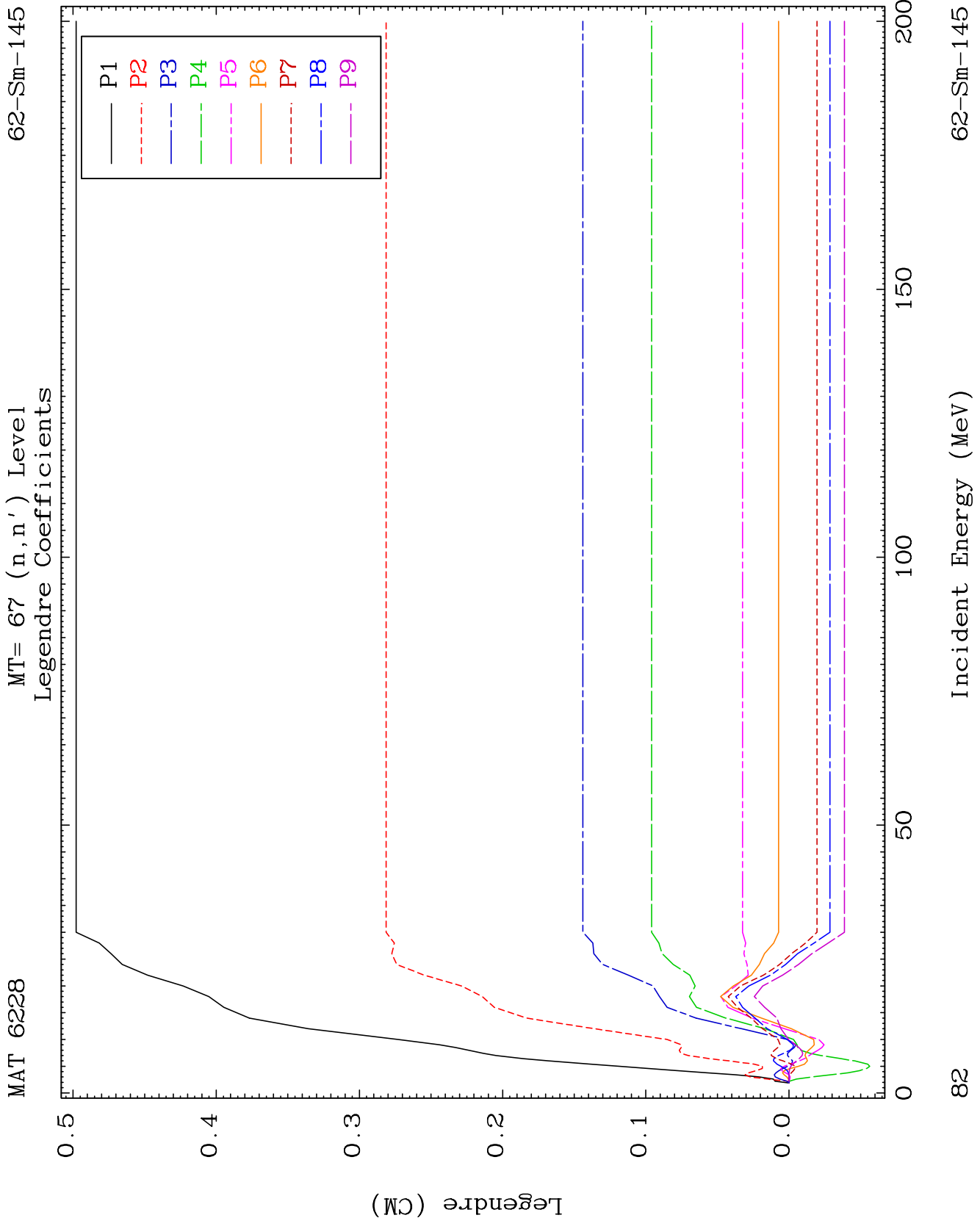
79

Incident Energy (MeV)

62-Sm-145



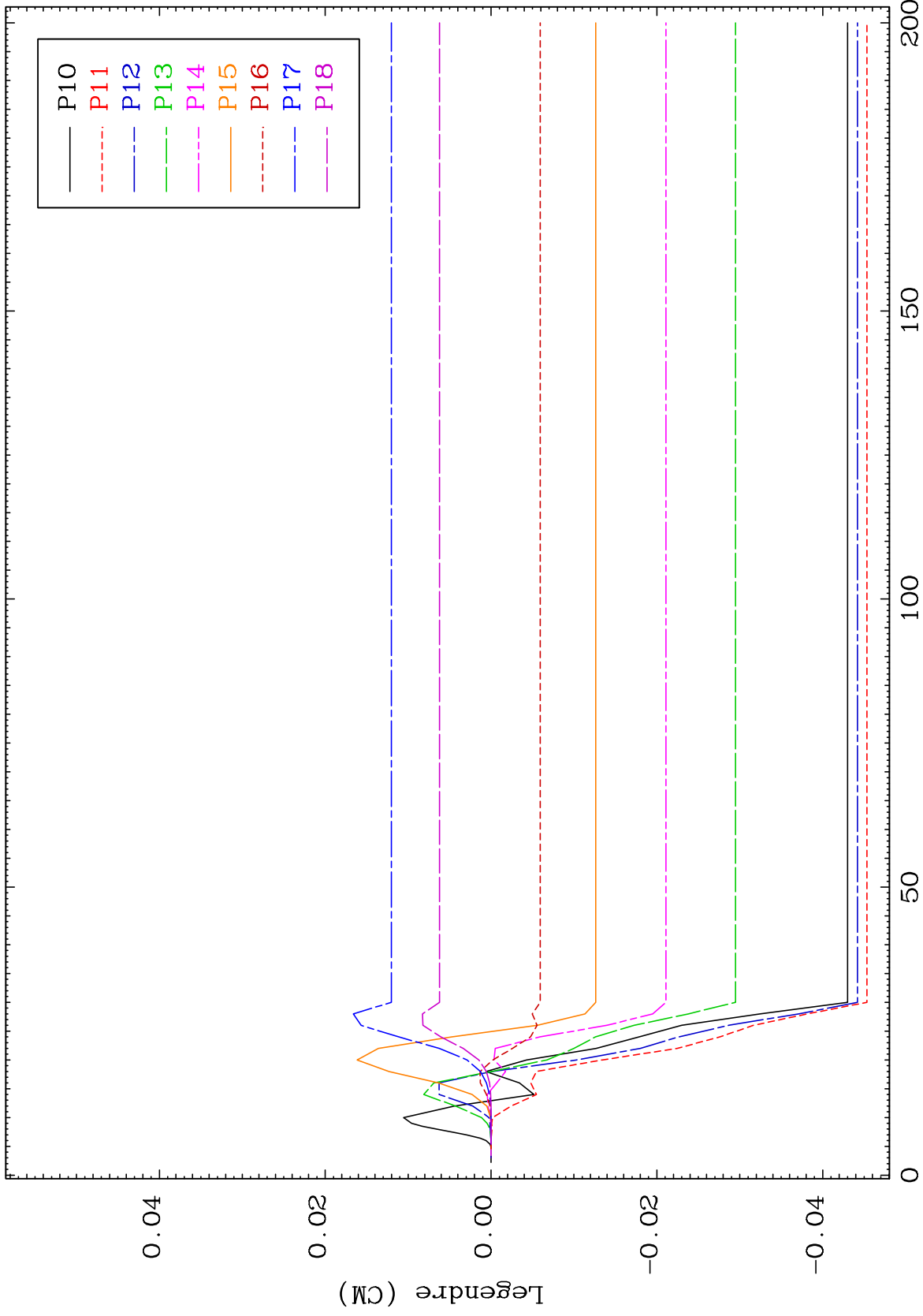




MAT 6228

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

62-Sm-145



83

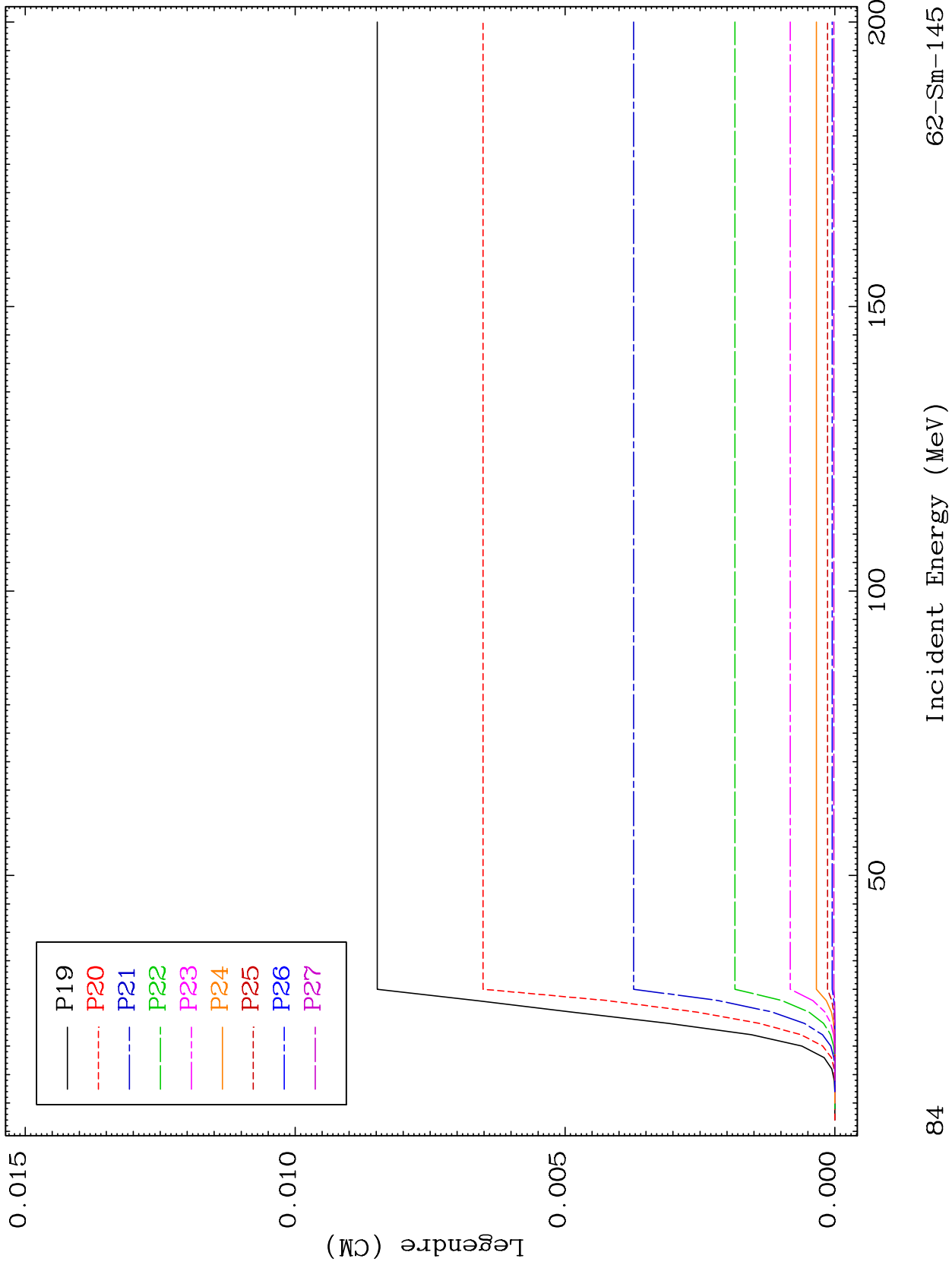
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



84

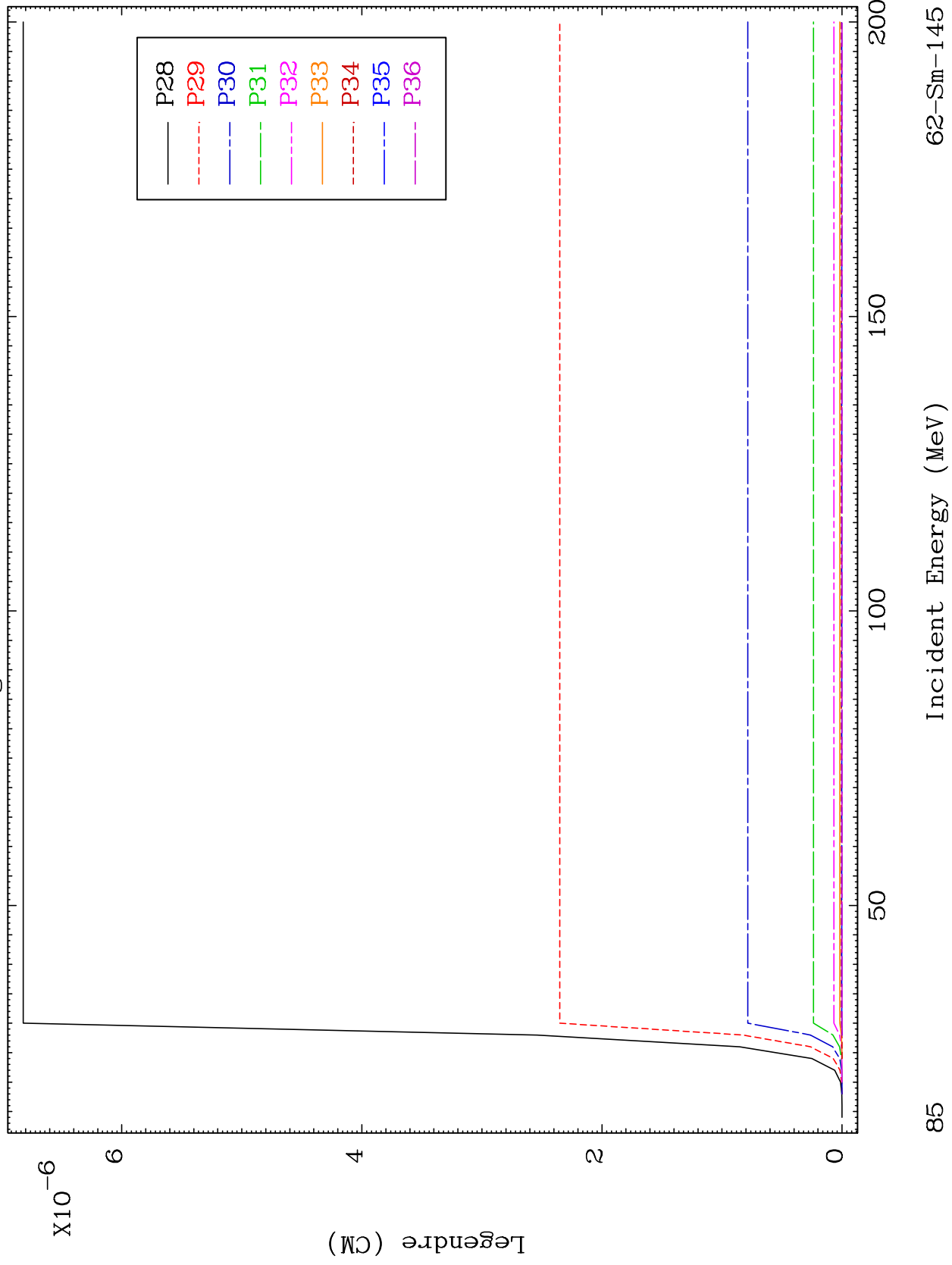
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

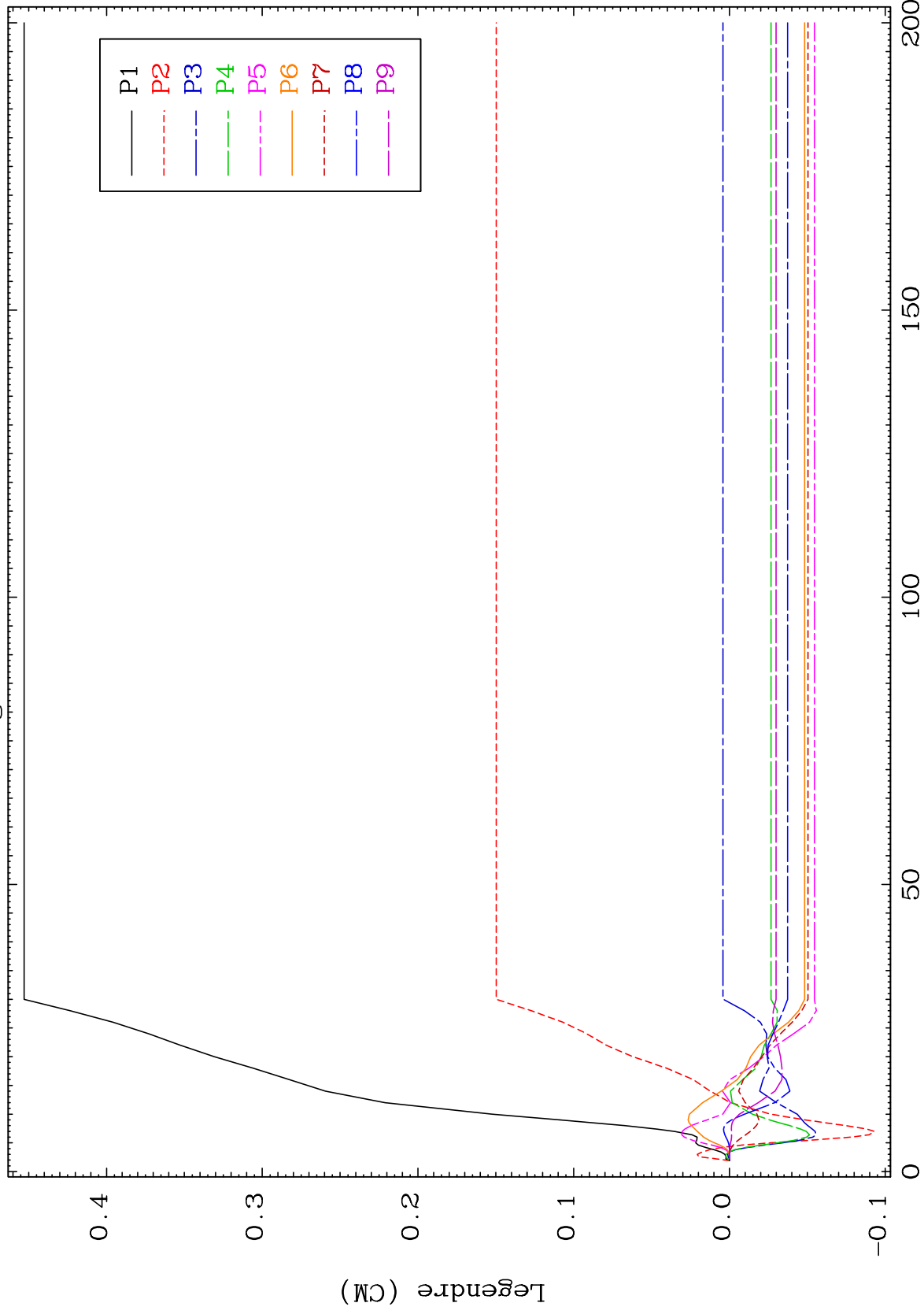
62-Sm-145



MAT 6228

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

62-Sm-145



86

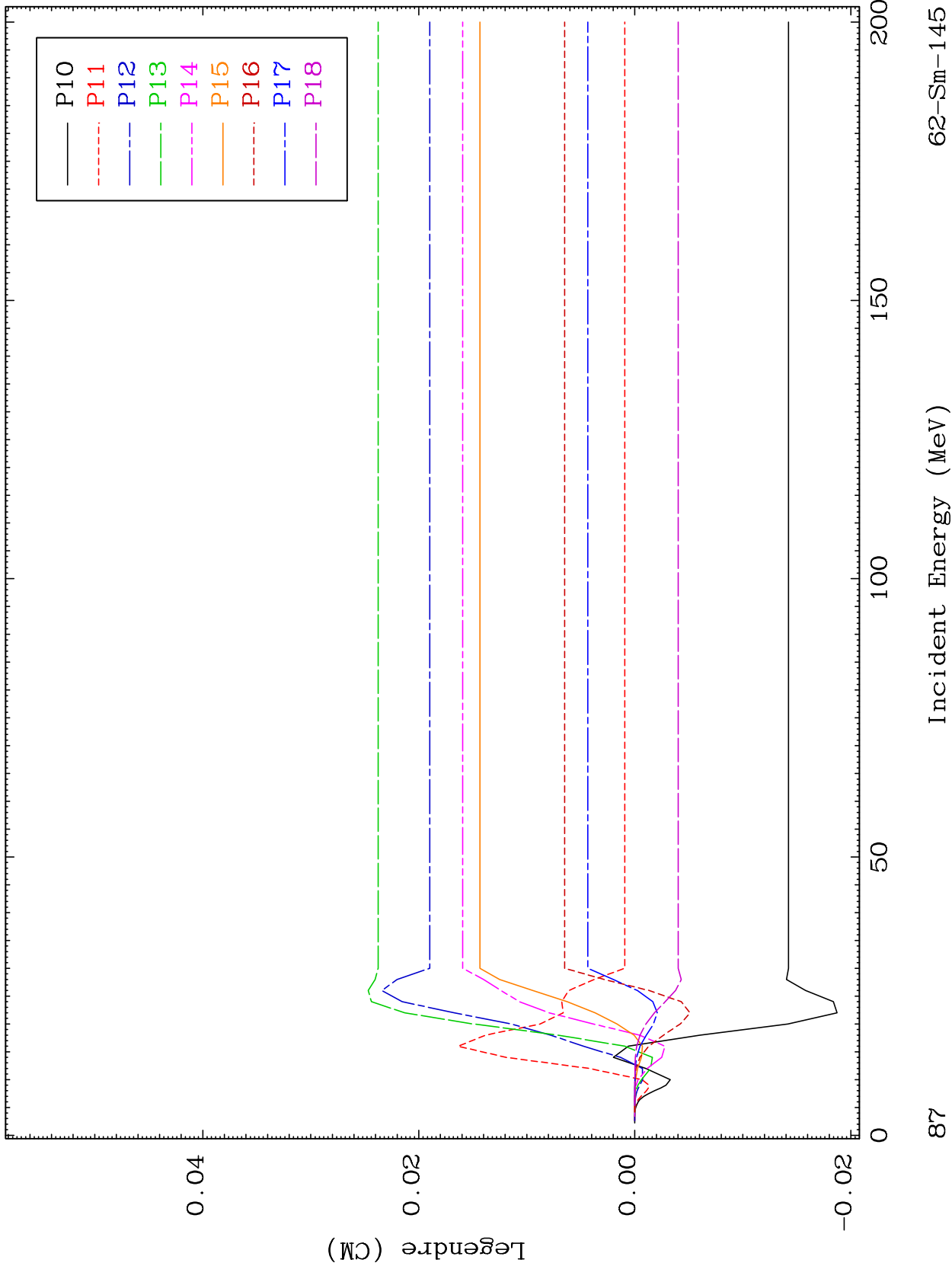
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



87

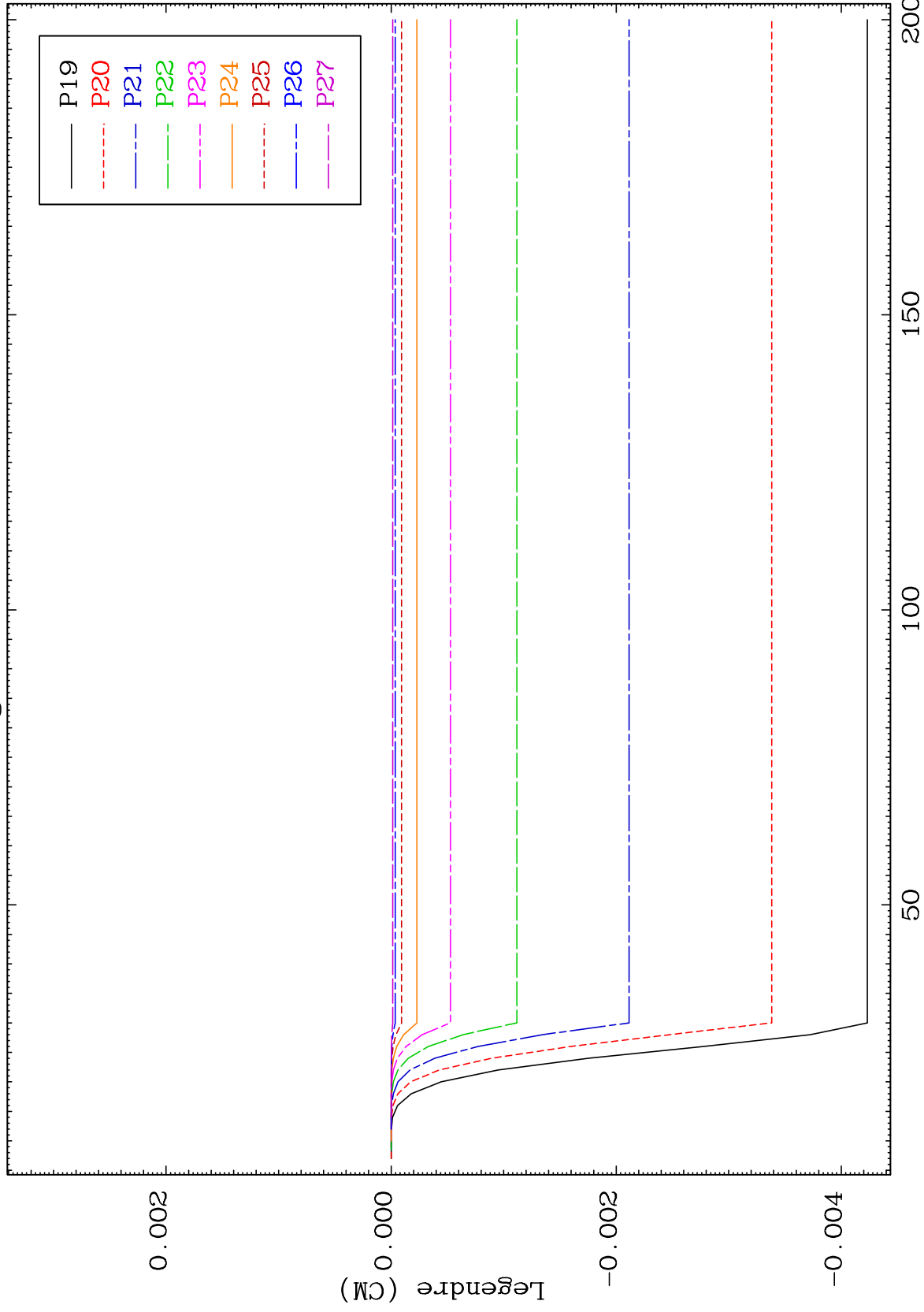
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

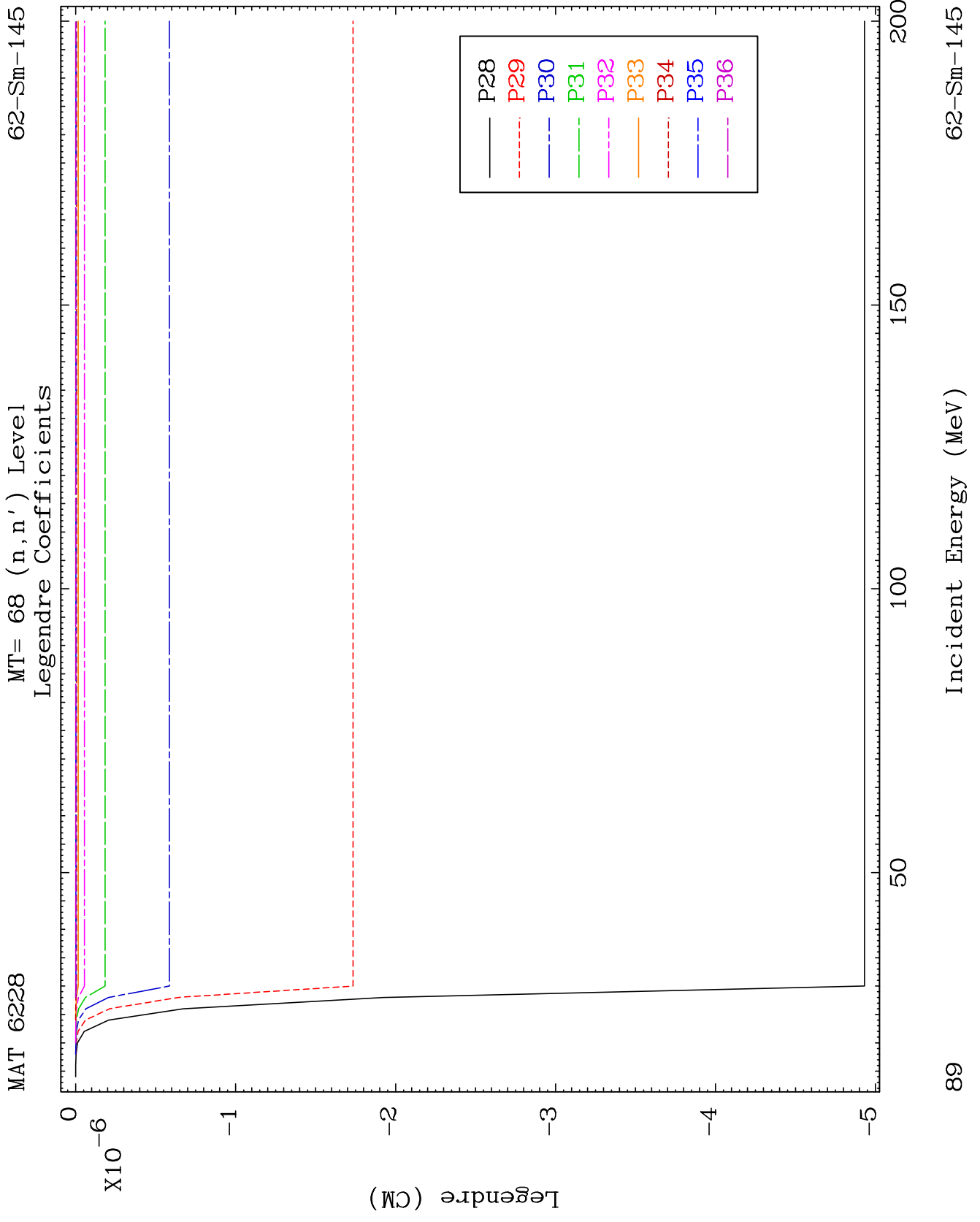
62-Sm-145



88

Incident Energy (MeV)

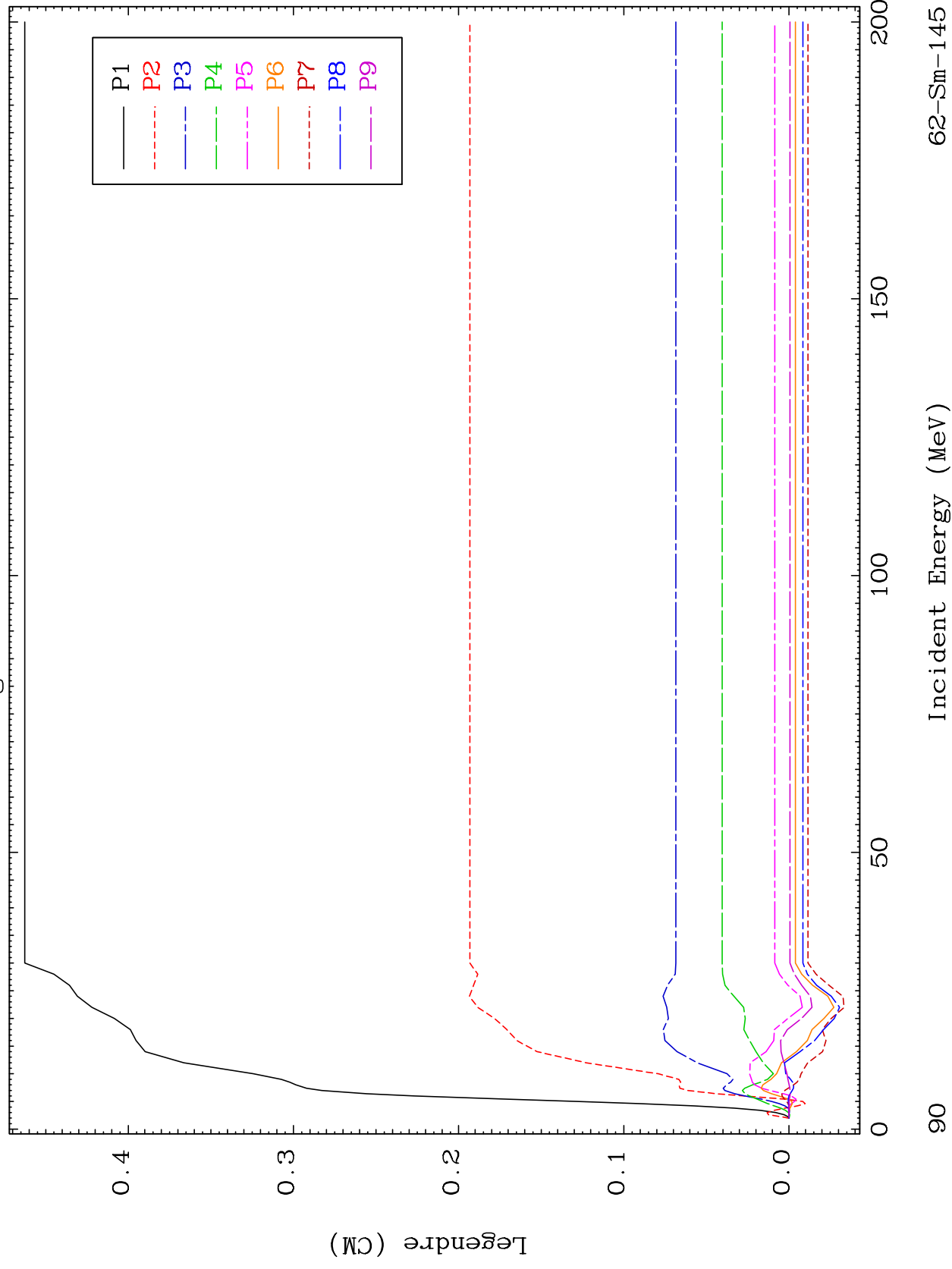
62-Sm-145



MAT 6228

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

62-Sm-145



62-Sm-145

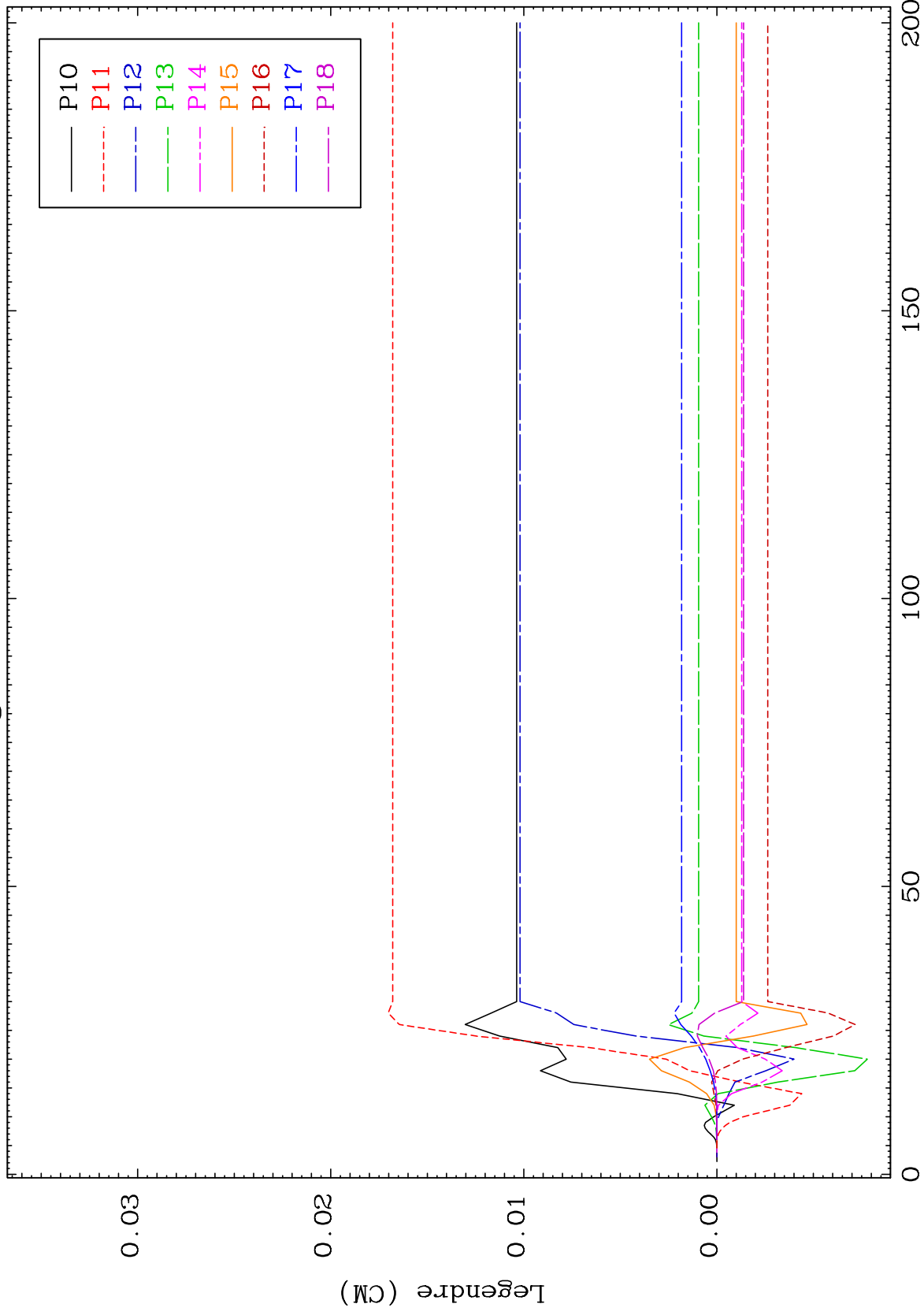
Incident Energy (MeV)

90

MAT 6228

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

62-Sm-145



91

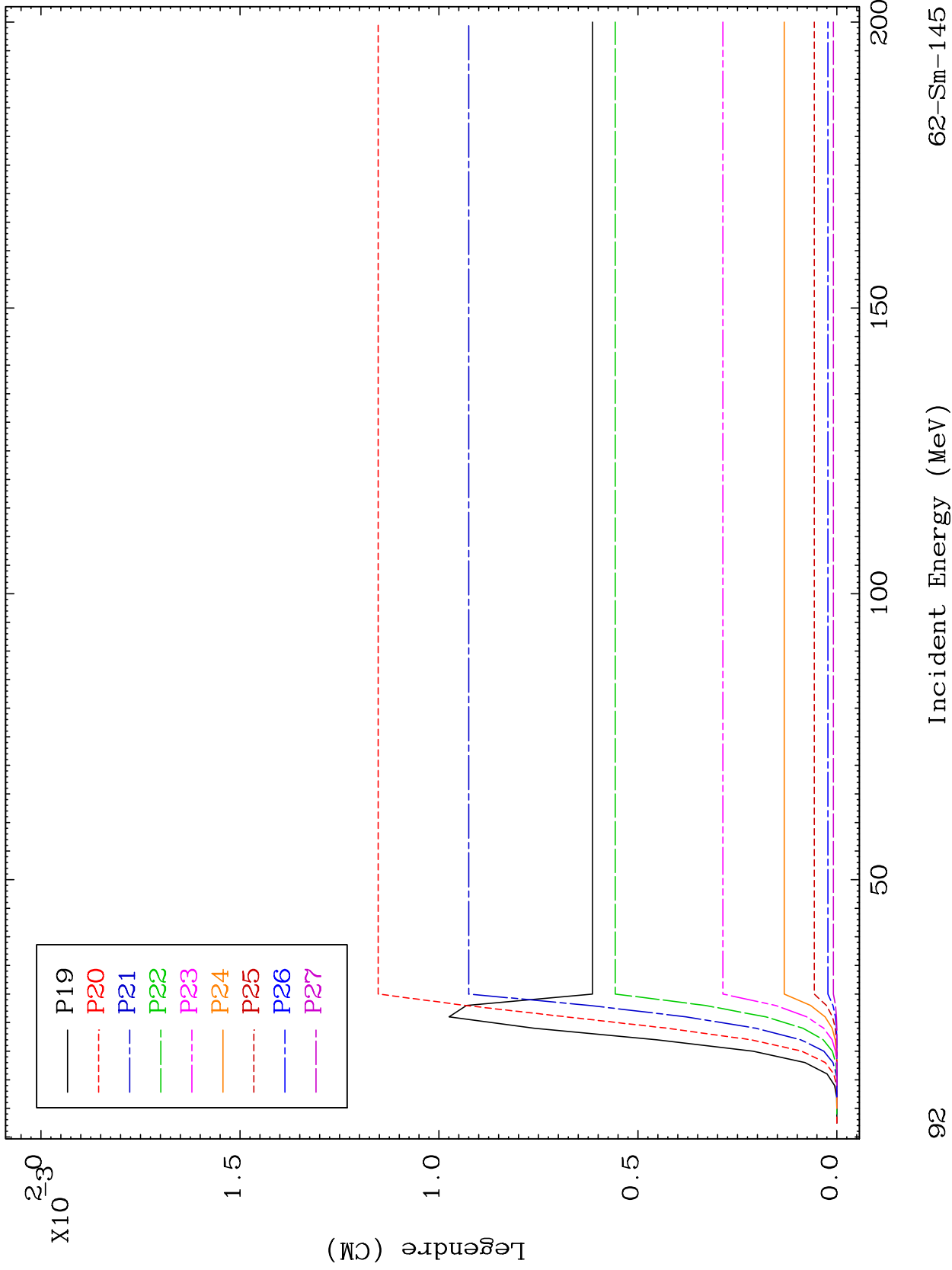
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145

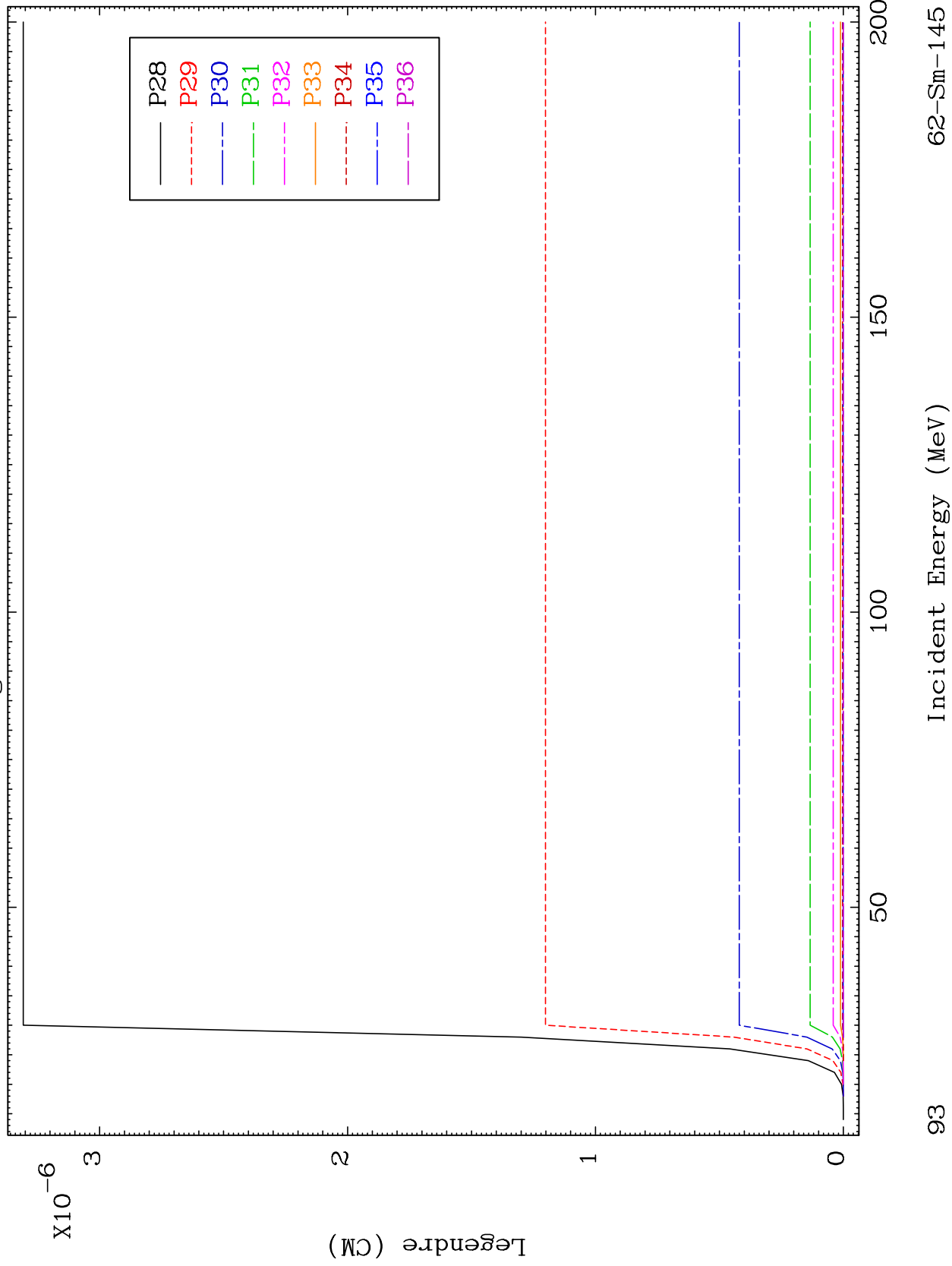


92

MAT 6228

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

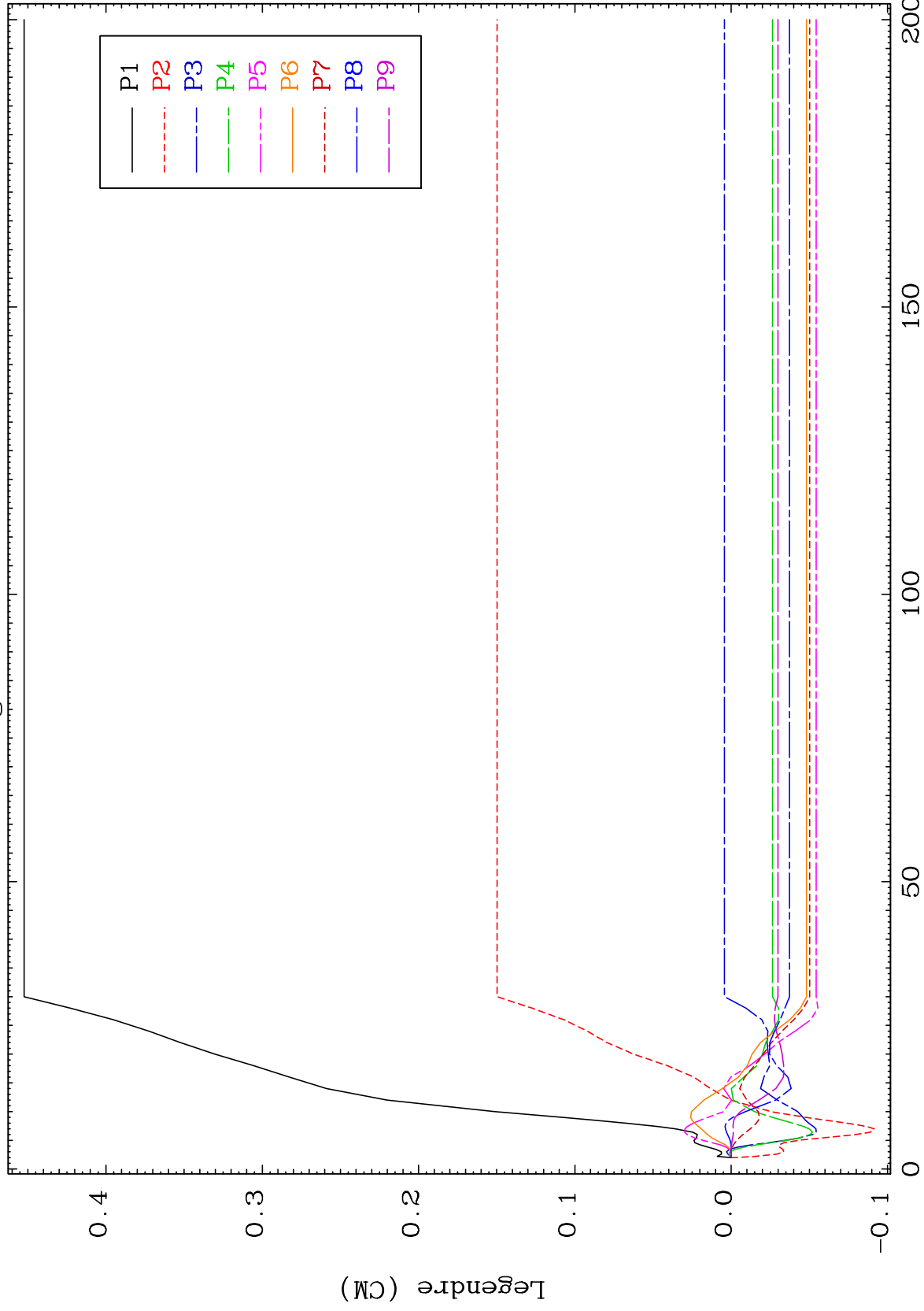
62-Sm-145



MAT 6228

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

62-Sm-145



94

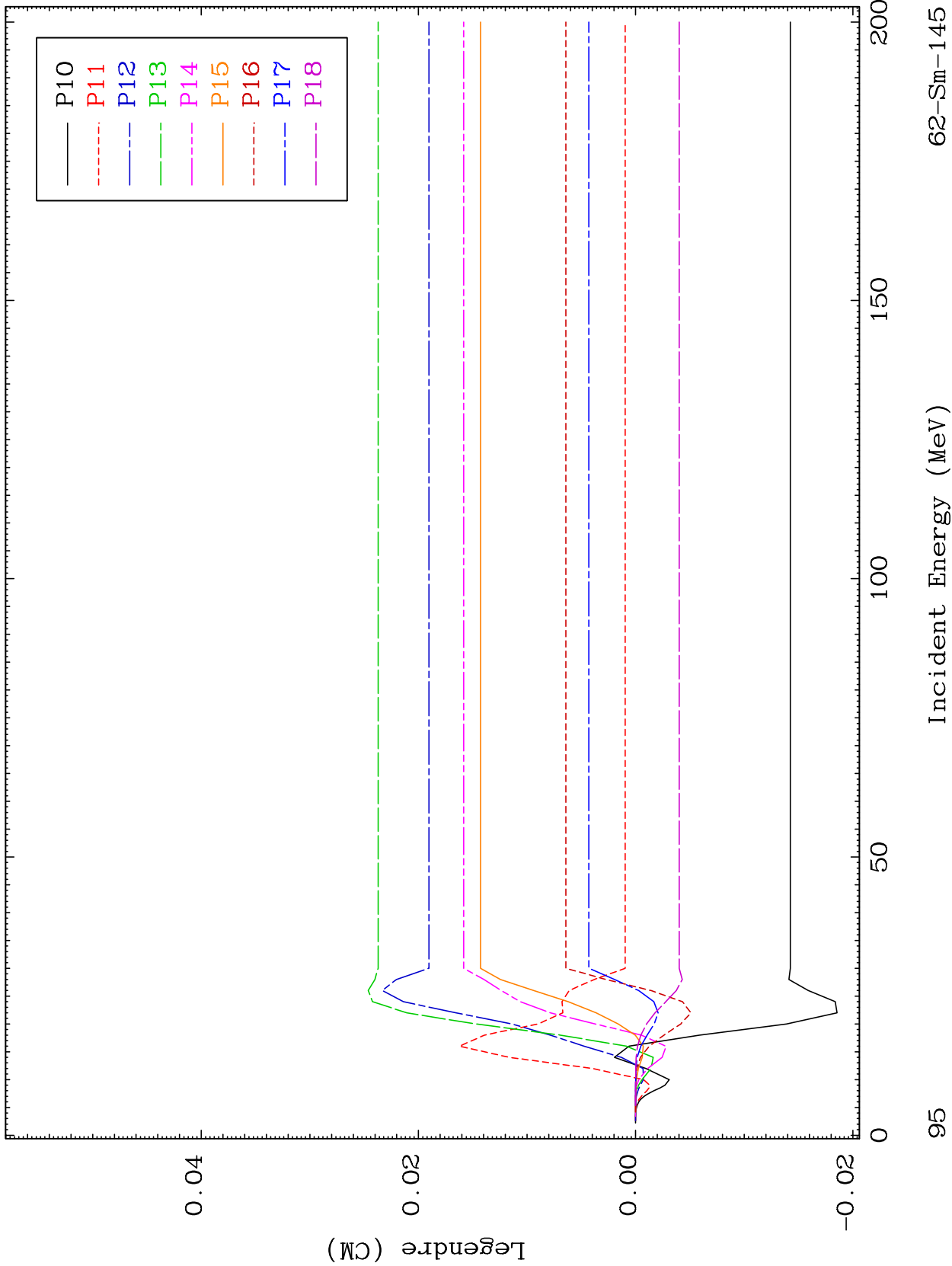
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

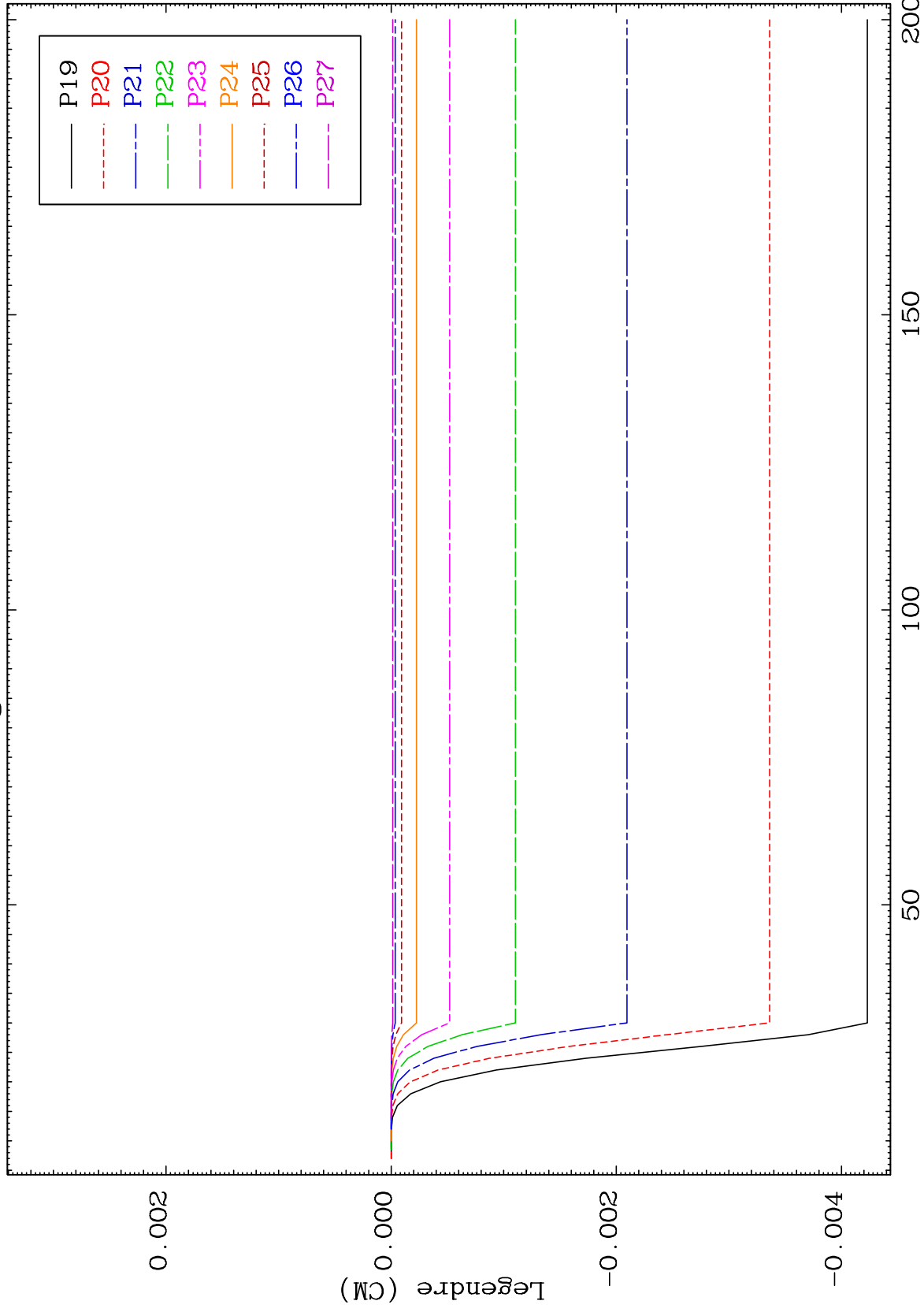
62-Sm-145



MAT 6228

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

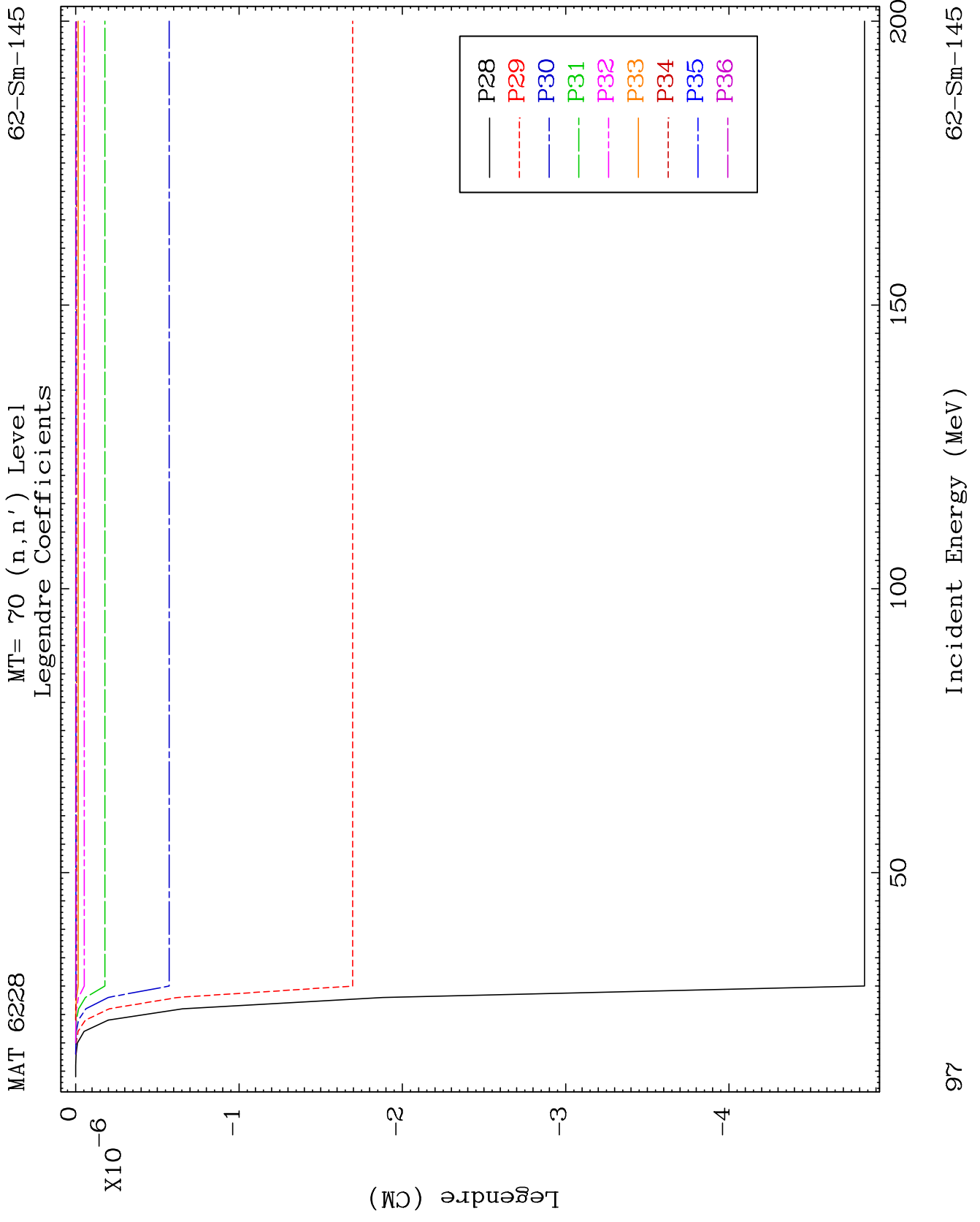
62-Sm-145



96

Incident Energy (MeV)

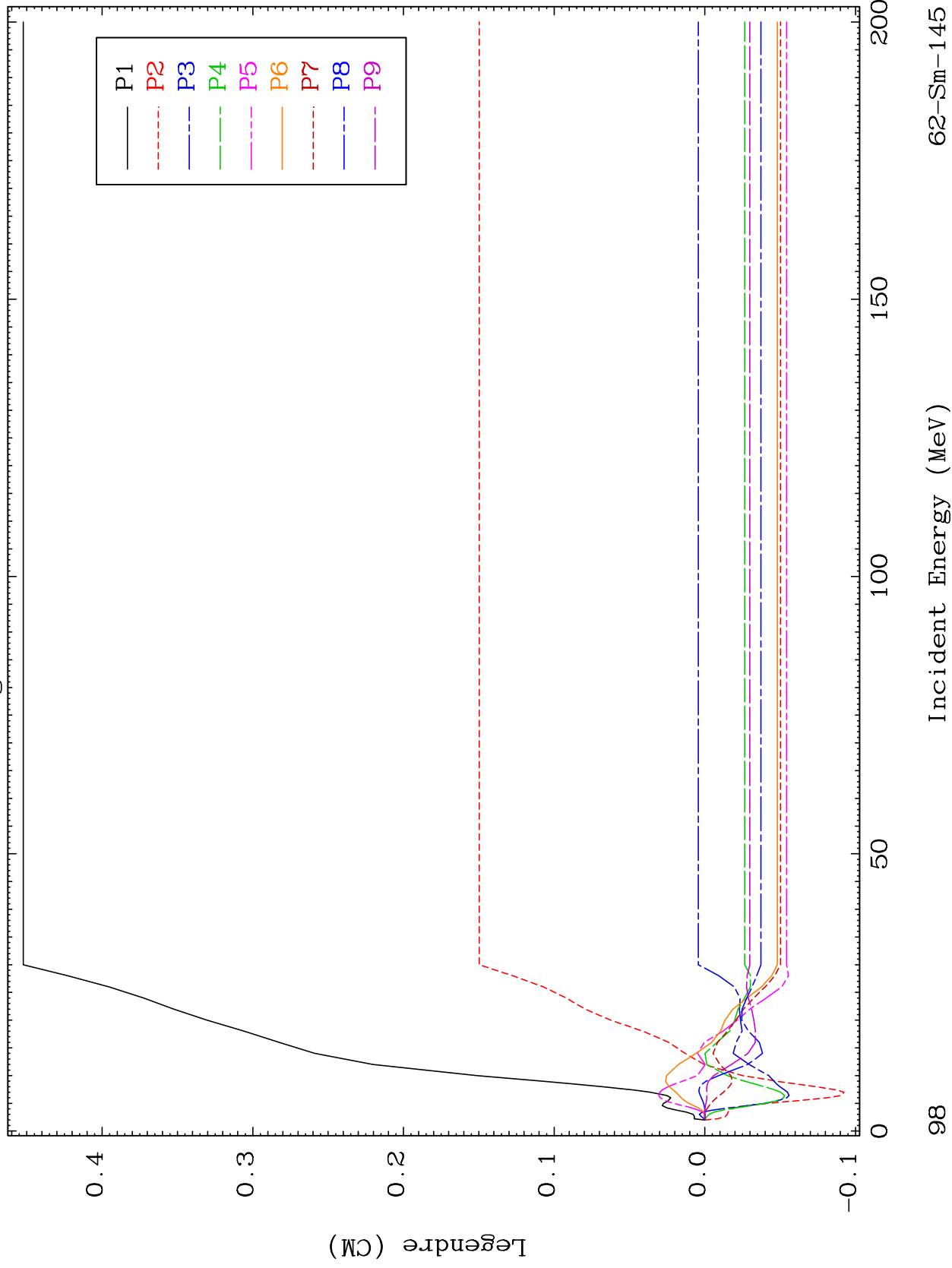
62-Sm-145



MAT 6228

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

62-Sm-145



62-Sm-145

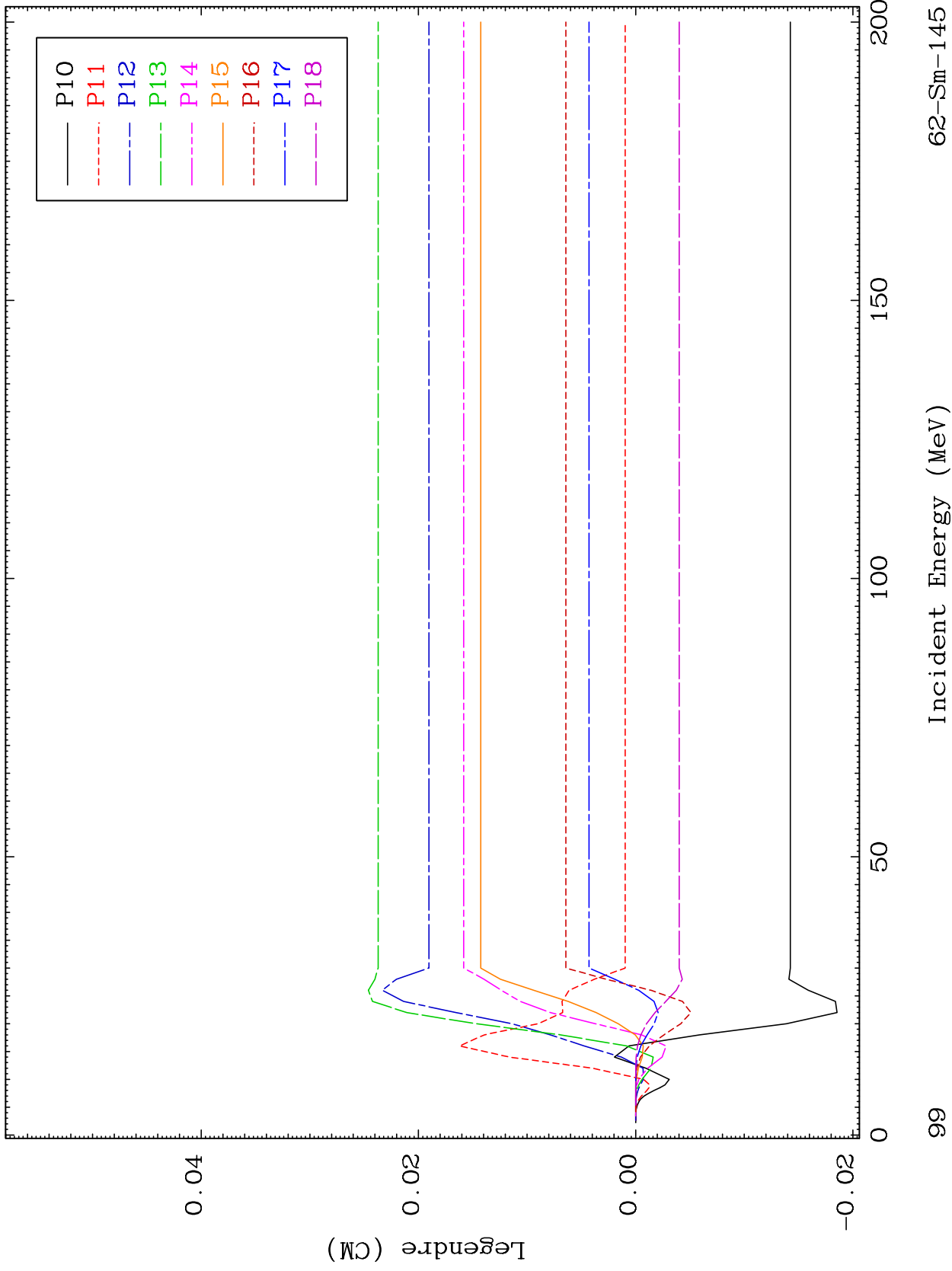
Incident Energy (MeV)

98

MAT 6228

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

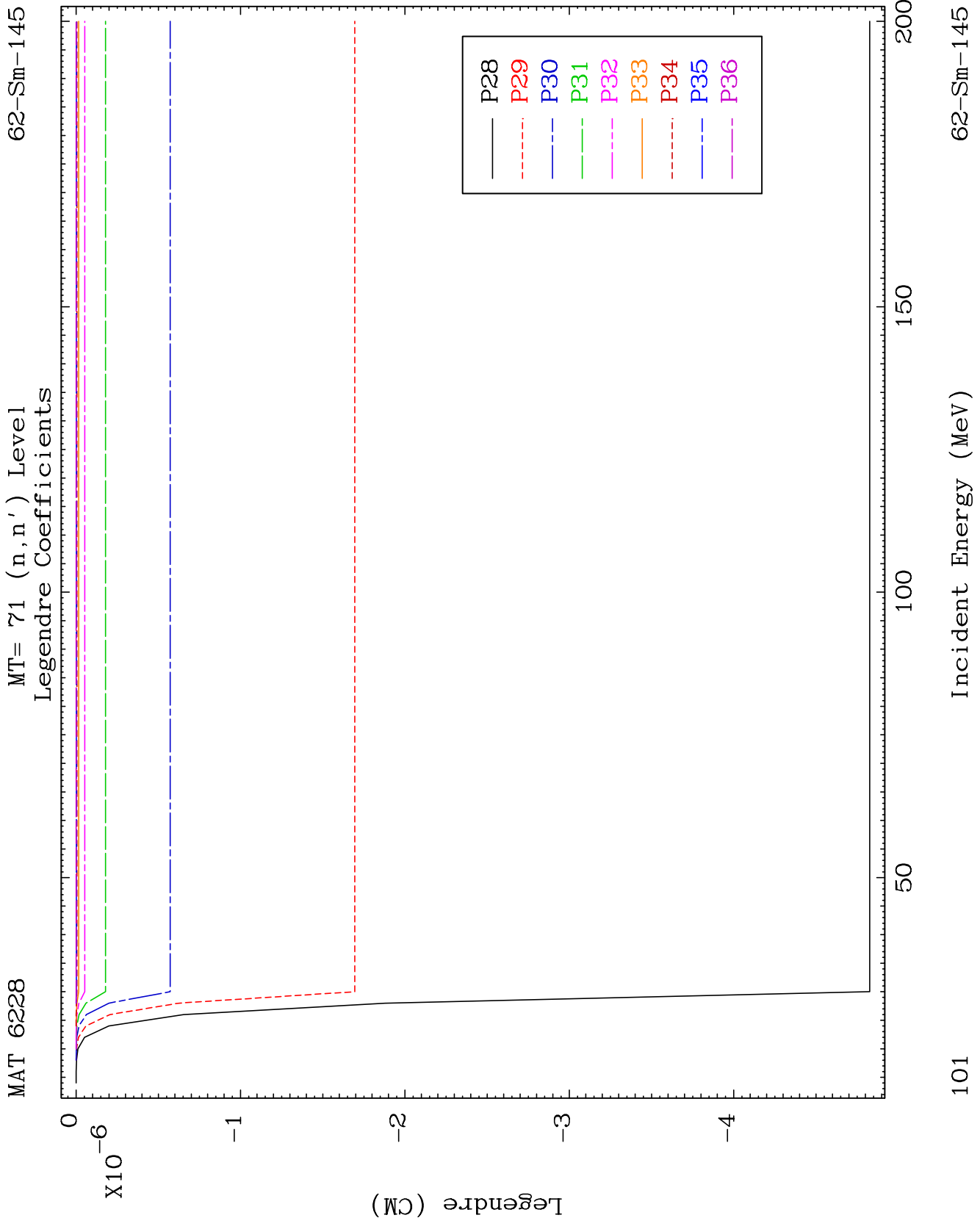
62-Sm-145



62-Sm-145

Incident Energy (MeV)

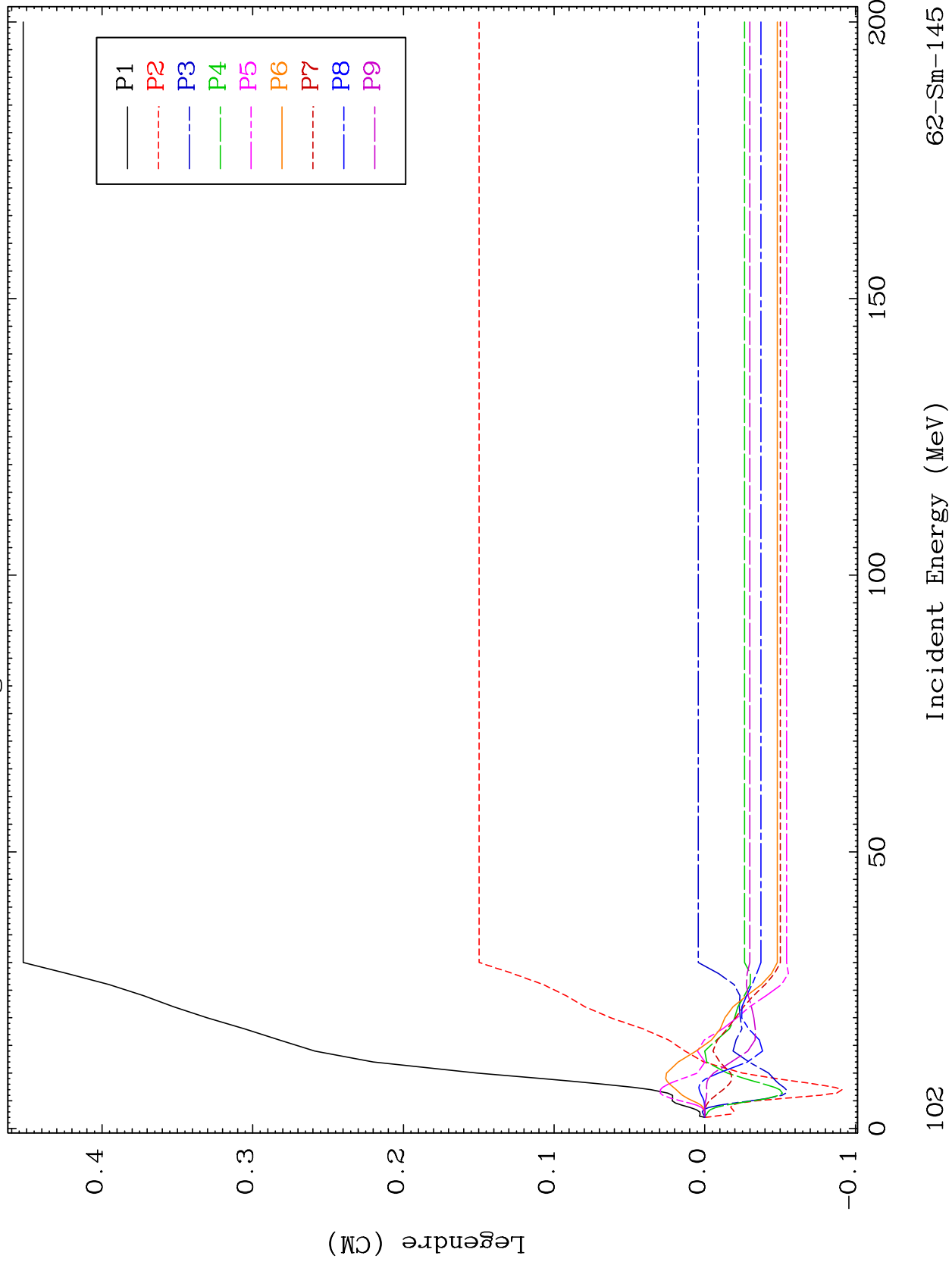
99



MAT 6228

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

62-Sm-145



62-Sm-145

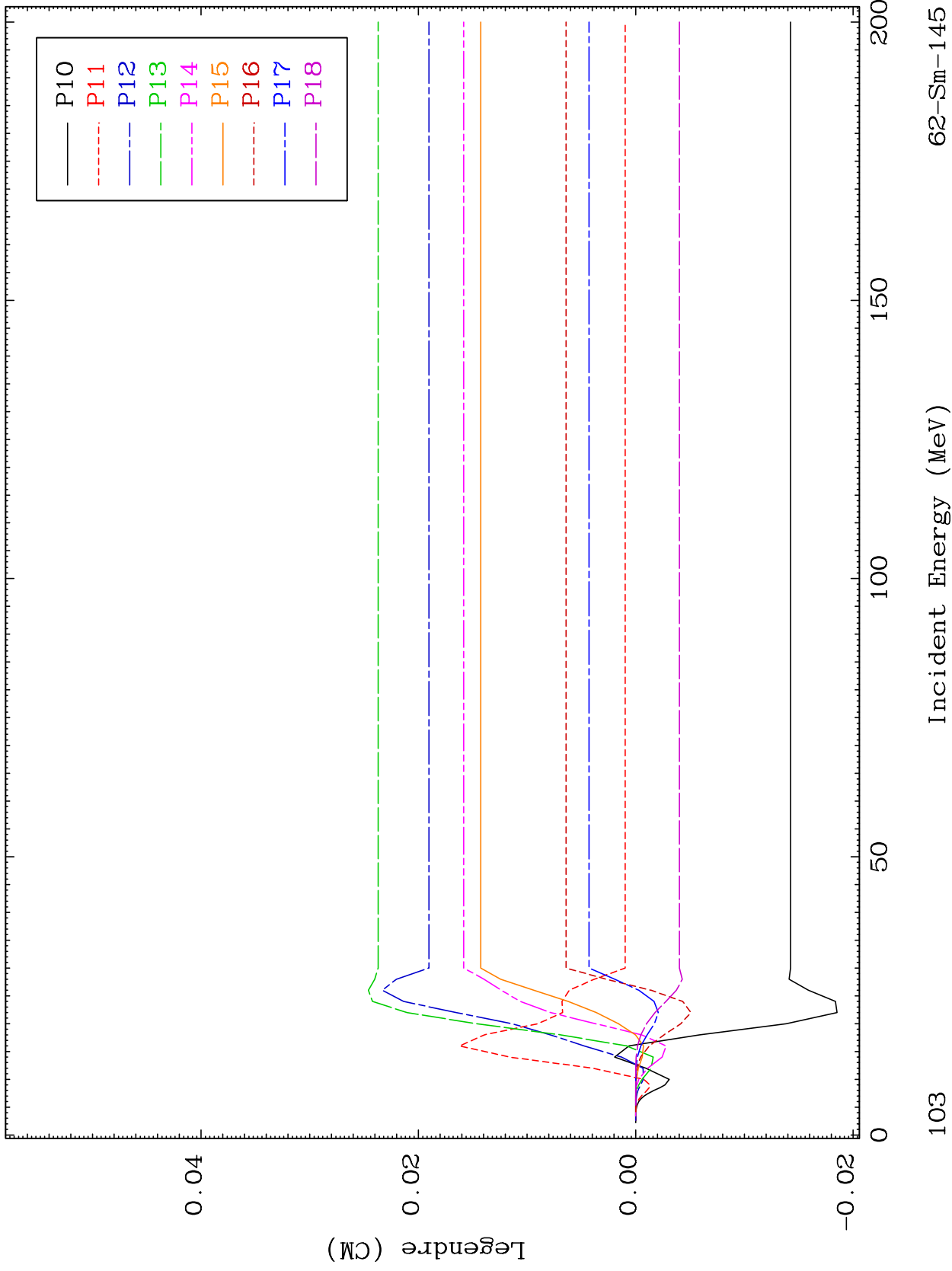
Incident Energy (MeV)

102

MAT 6228

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

62-Sm-145



103

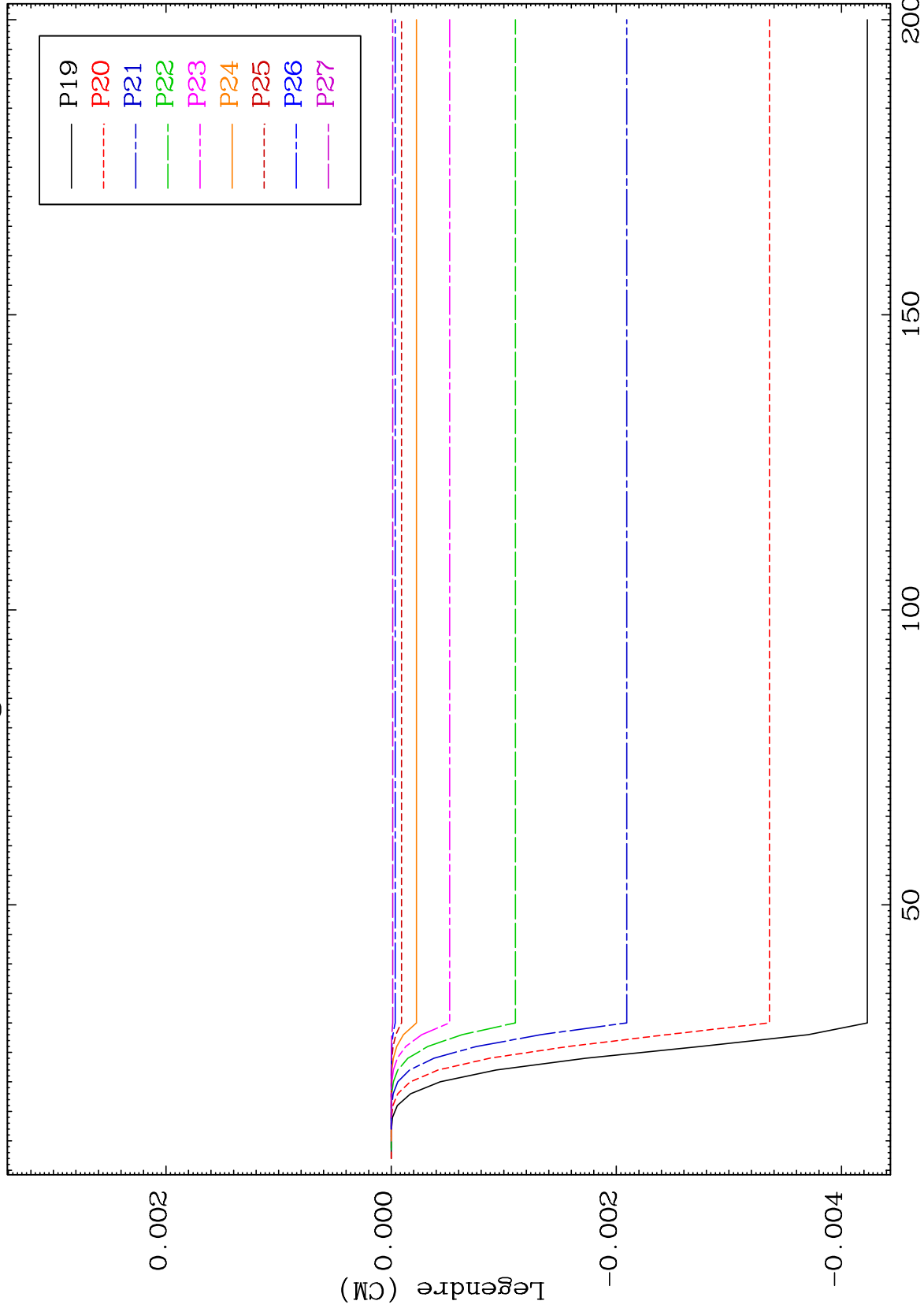
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

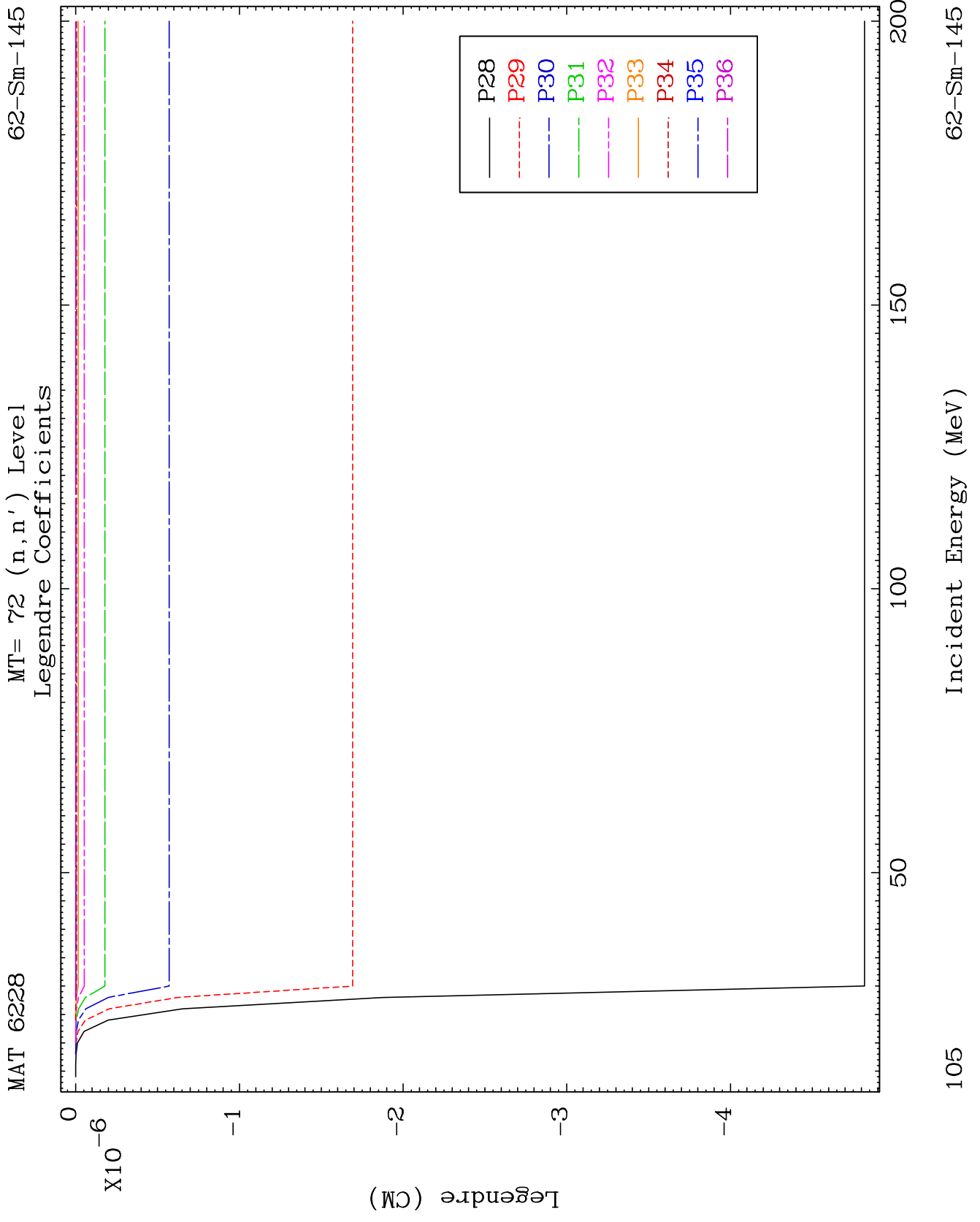
62-Sm-145



104

Incident Energy (MeV)

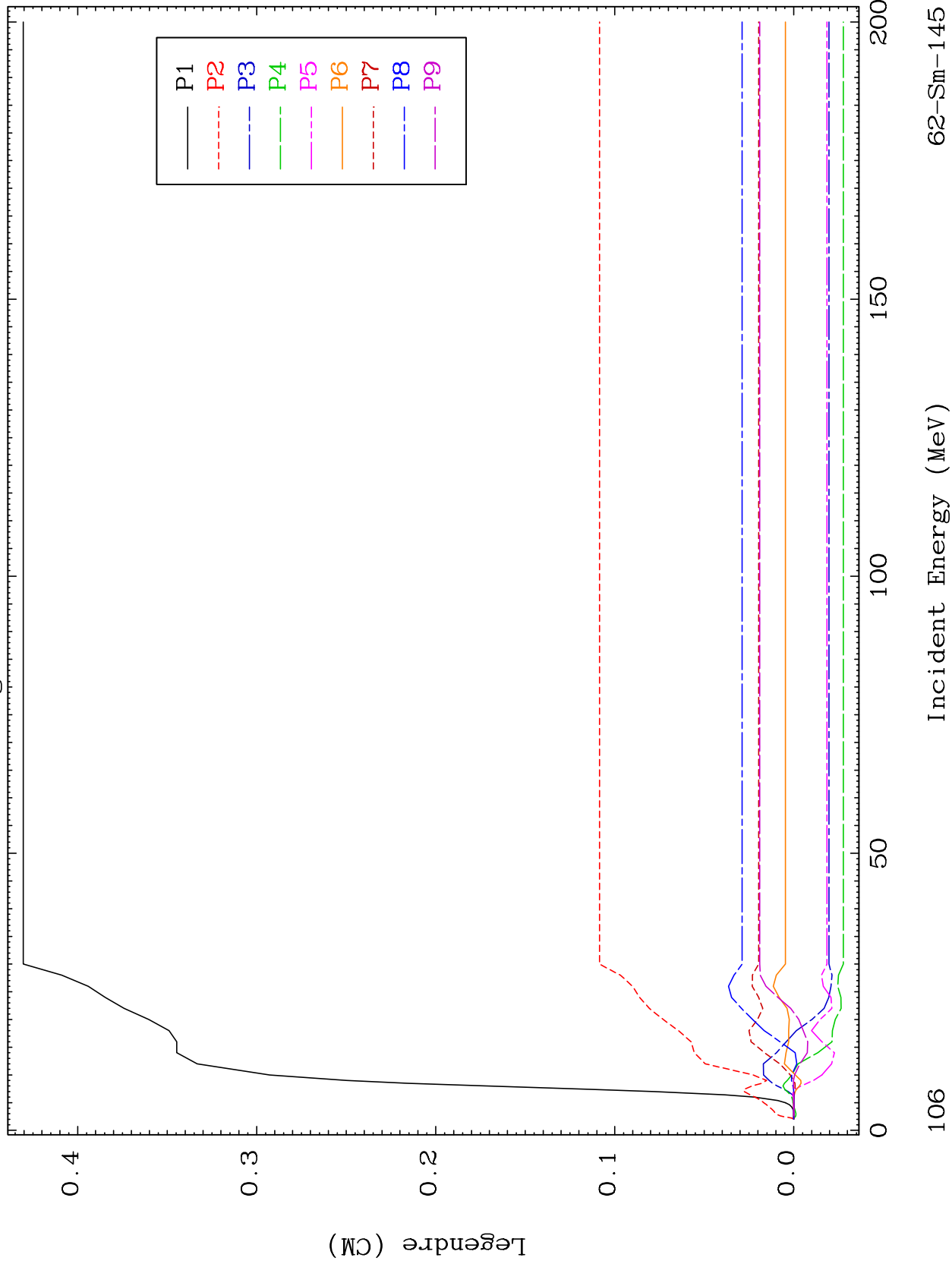
62-Sm-145



MAT 6228

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

62-Sm-145



62-Sm-145

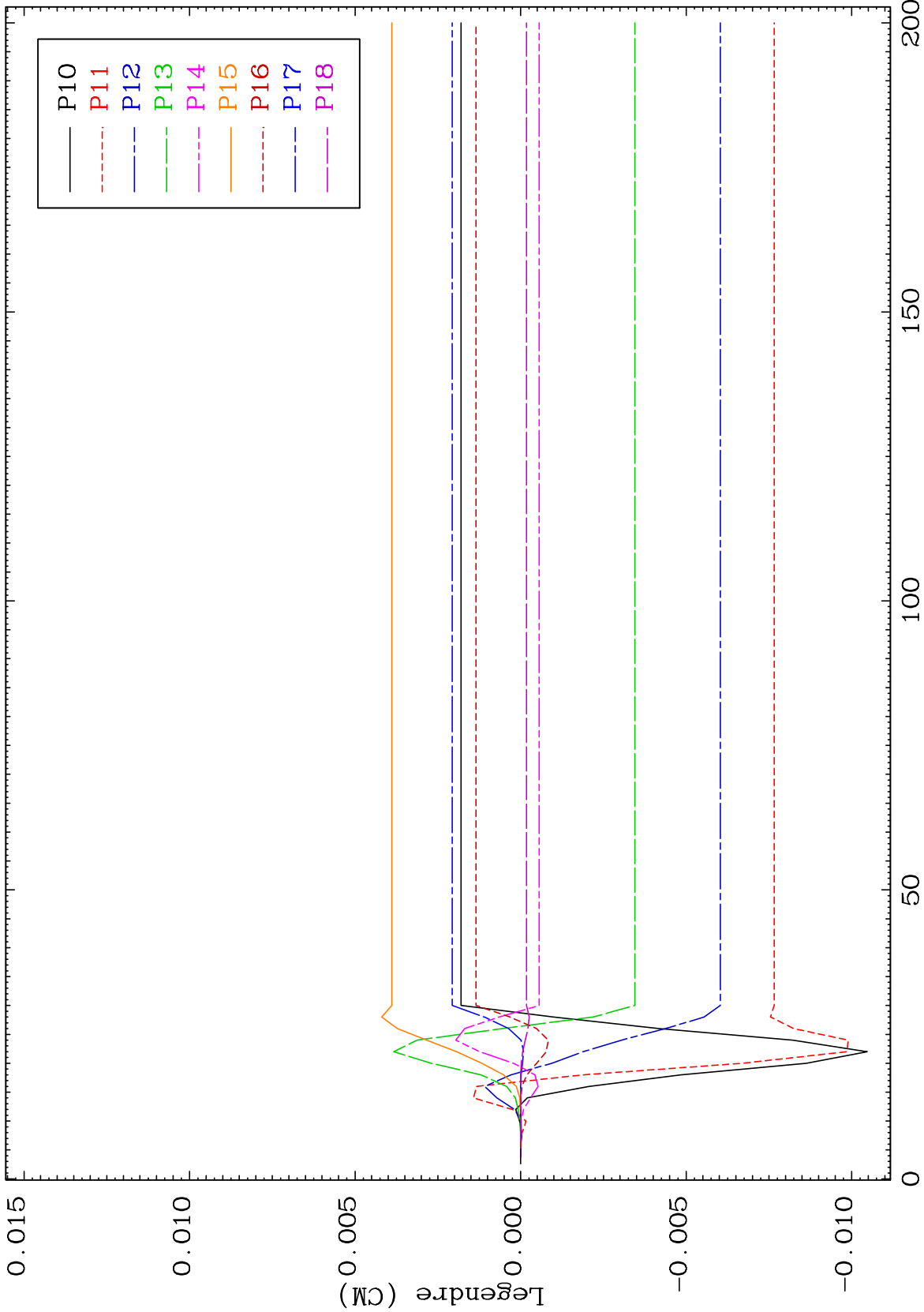
Incident Energy (MeV)

106

MAT 6228

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

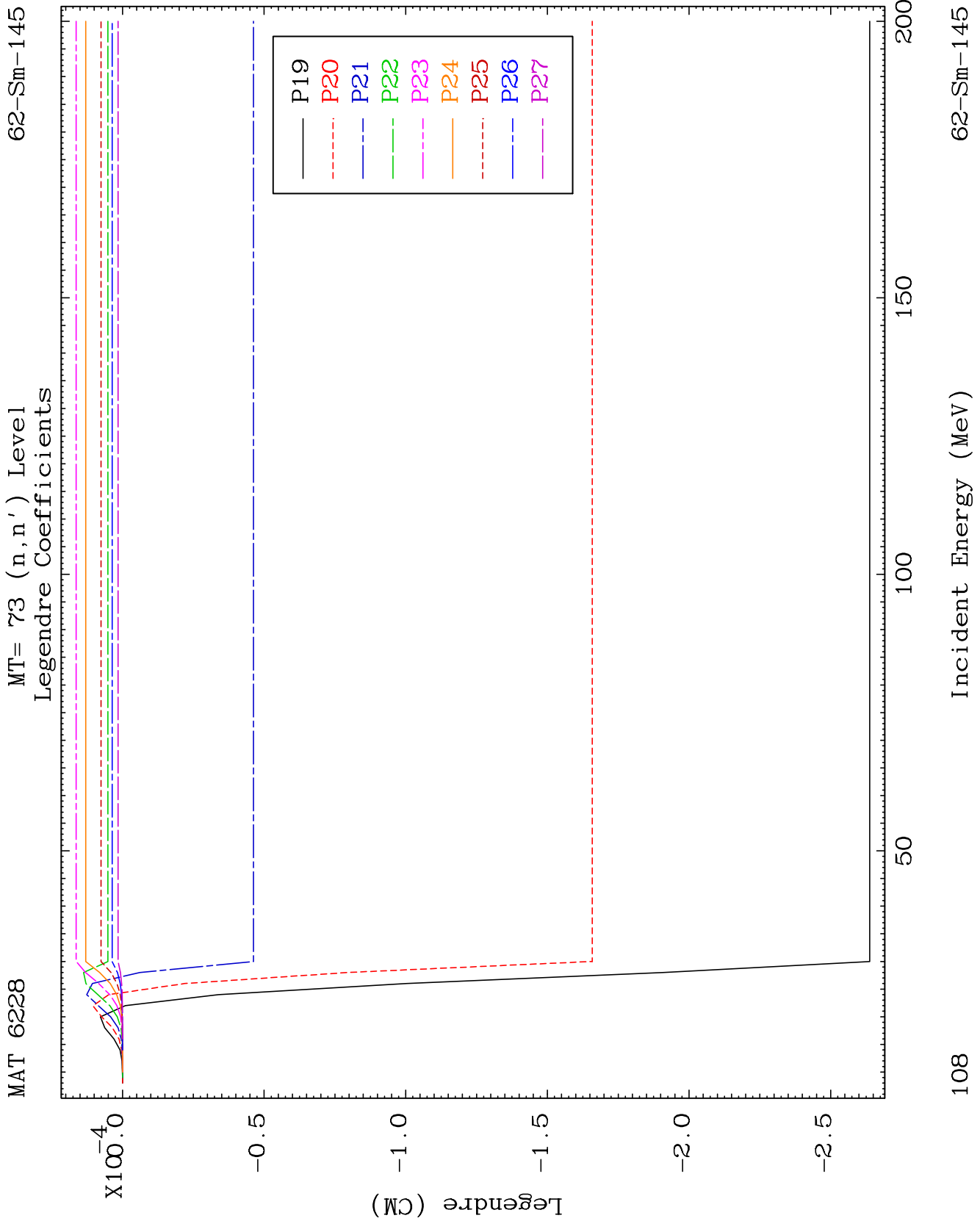
62-Sm-145



107

Incident Energy (MeV)

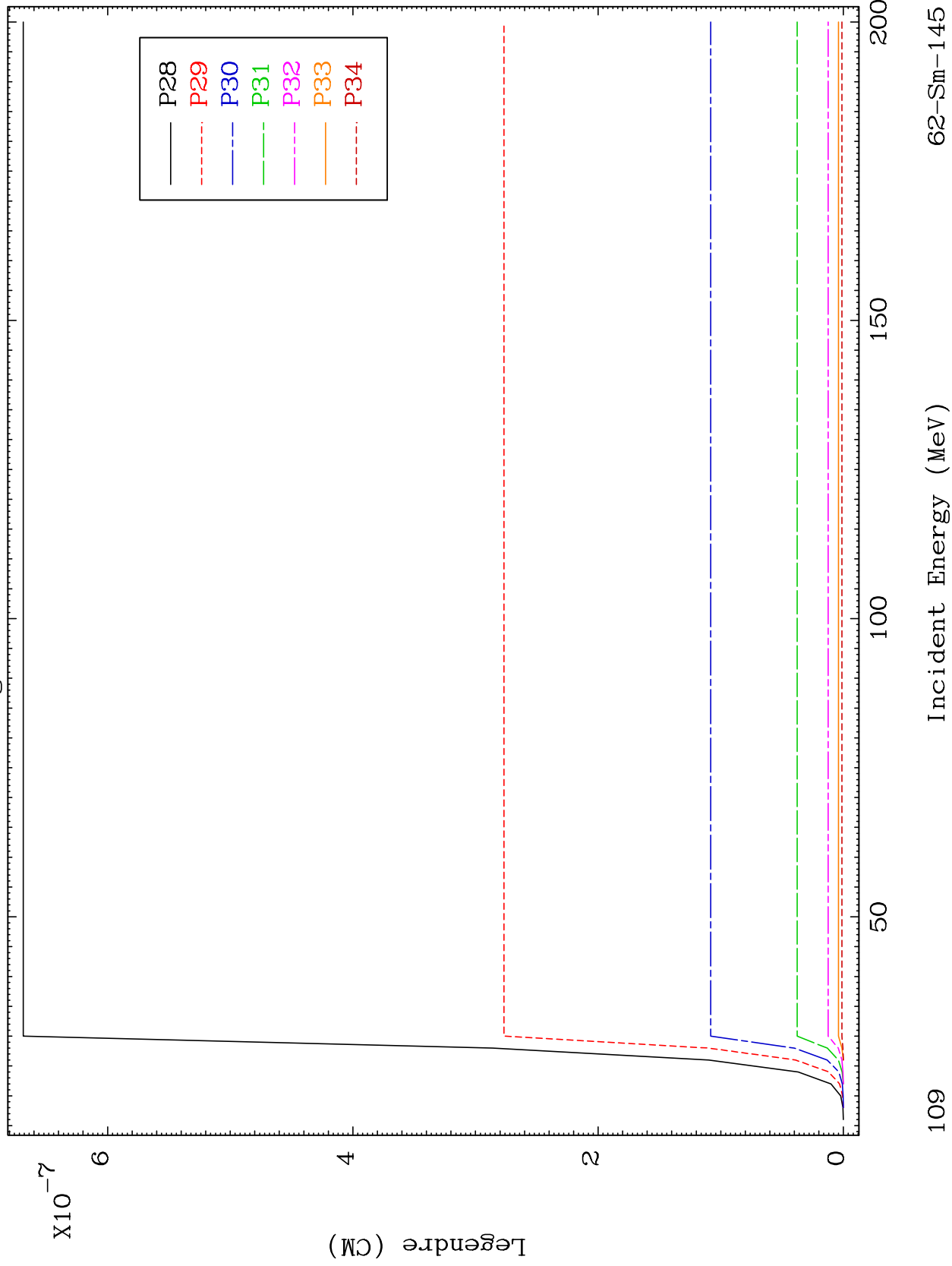
62-Sm-145



MAT 6228

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

62-Sm-145



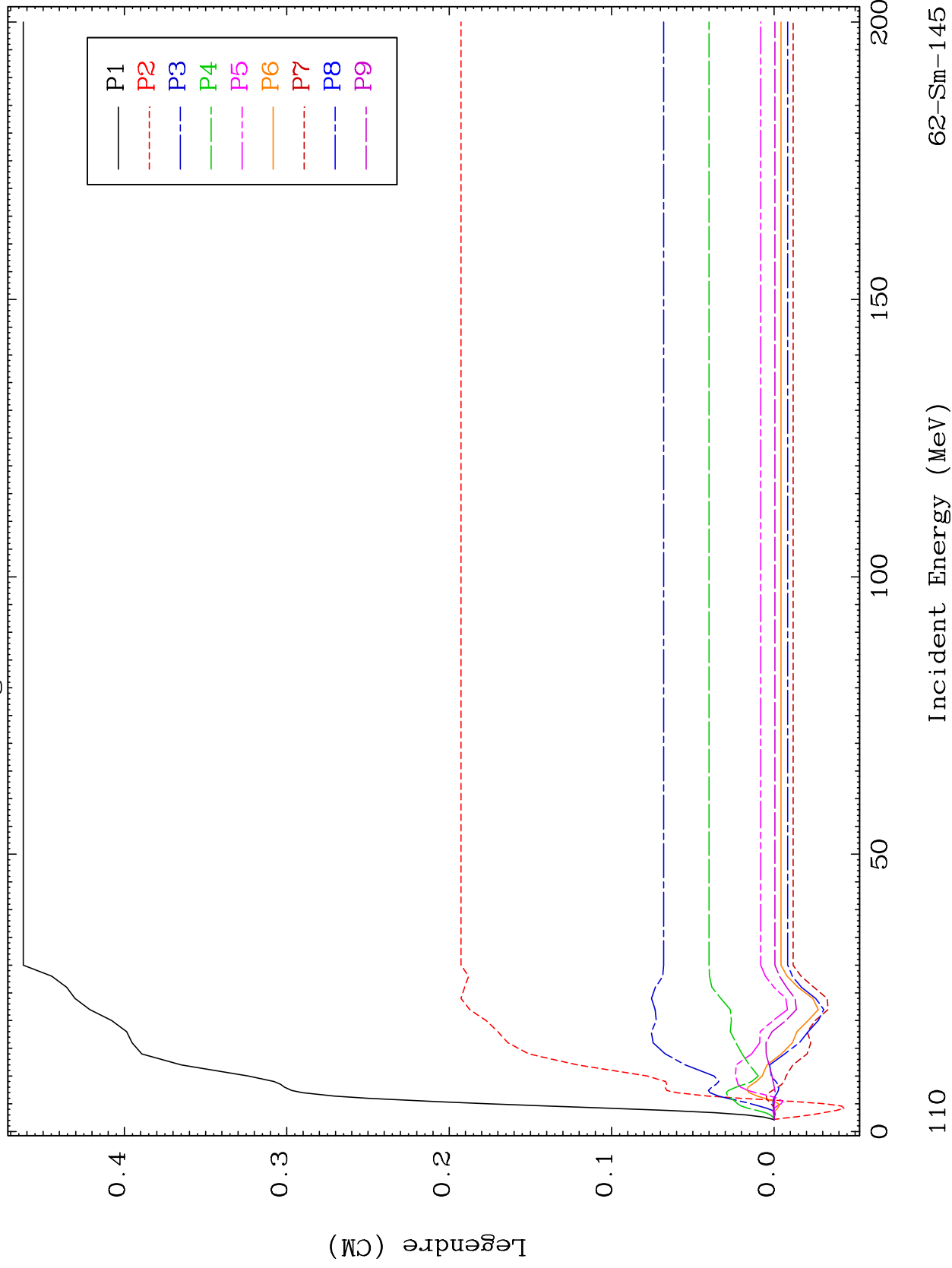
109

62-Sm-145

MAT 6228

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

62-Sm-145



62-Sm-145

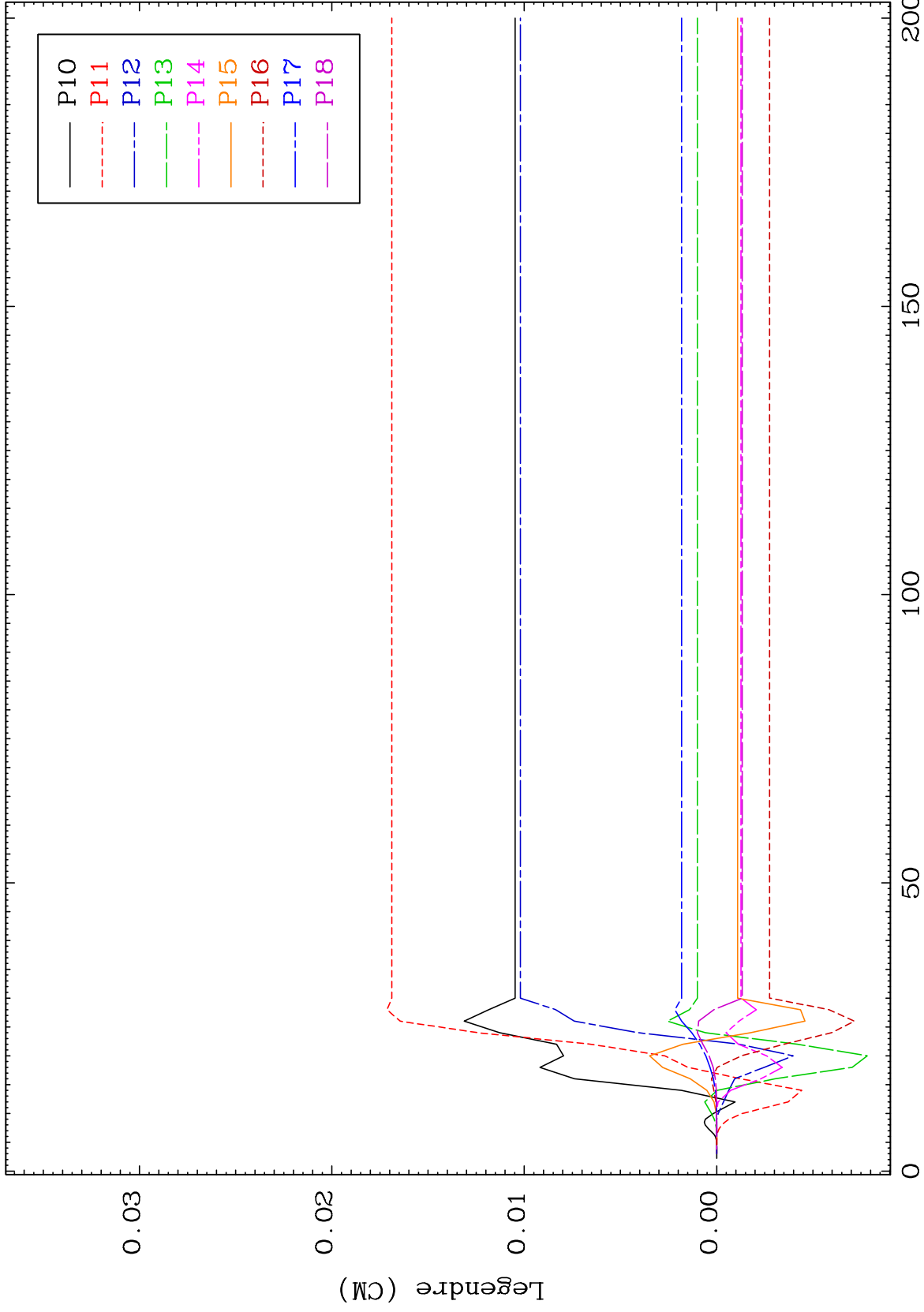
Incident Energy (MeV)

0

MAT 6228

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

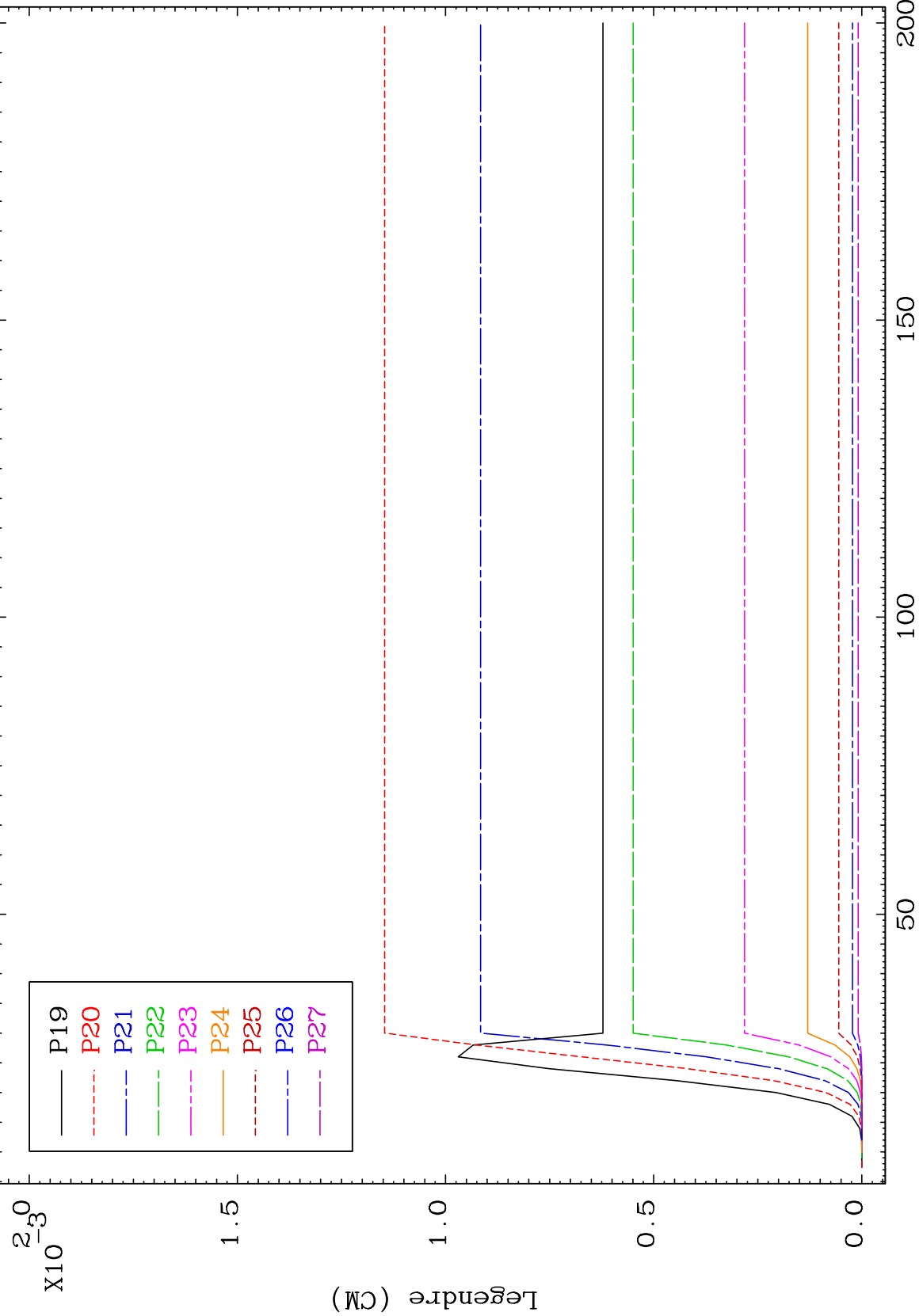
62-Sm-145



111

Incident Energy (MeV)

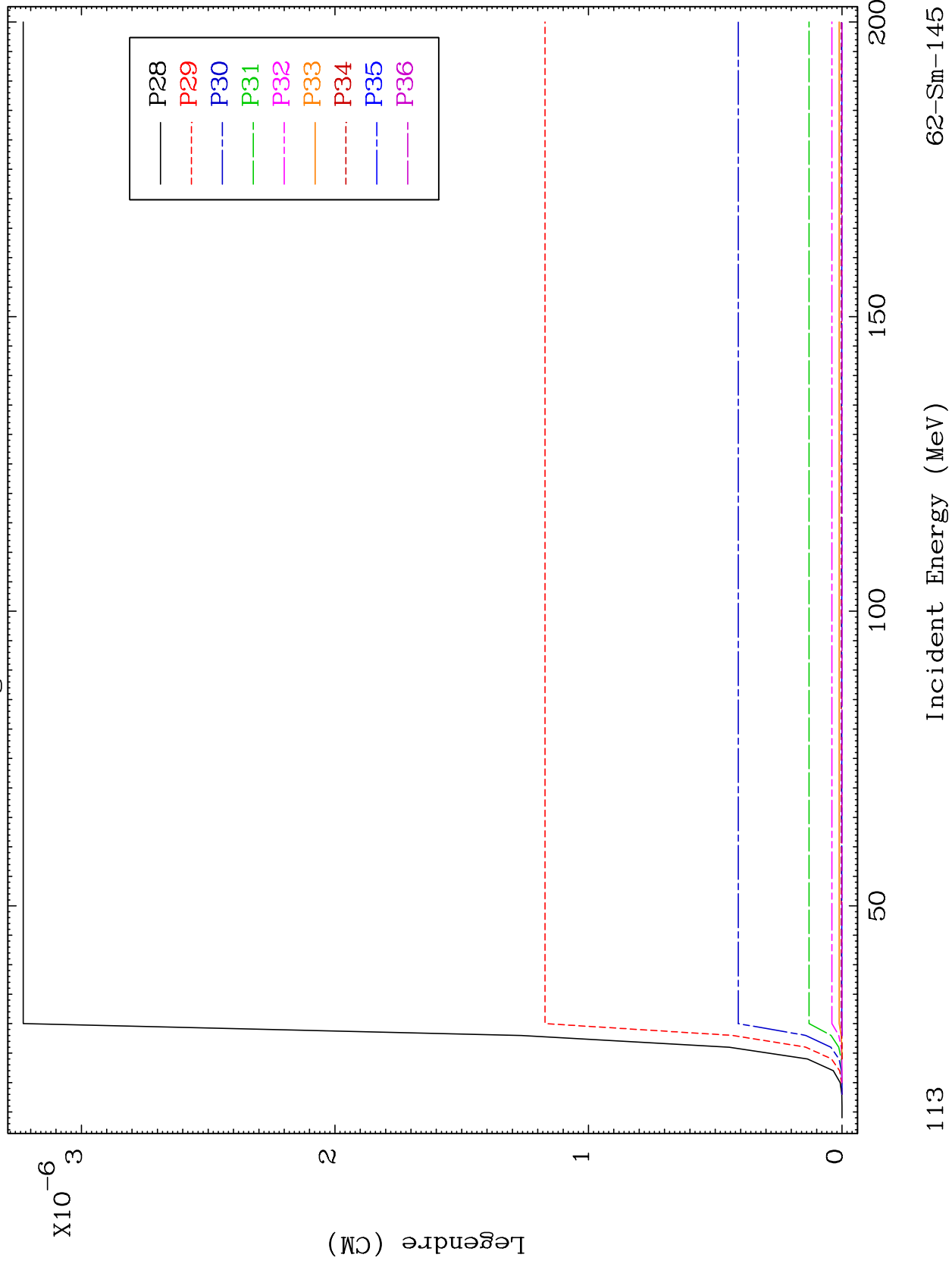
62-Sm-145



MAT 6228

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

62-Sm-145



113

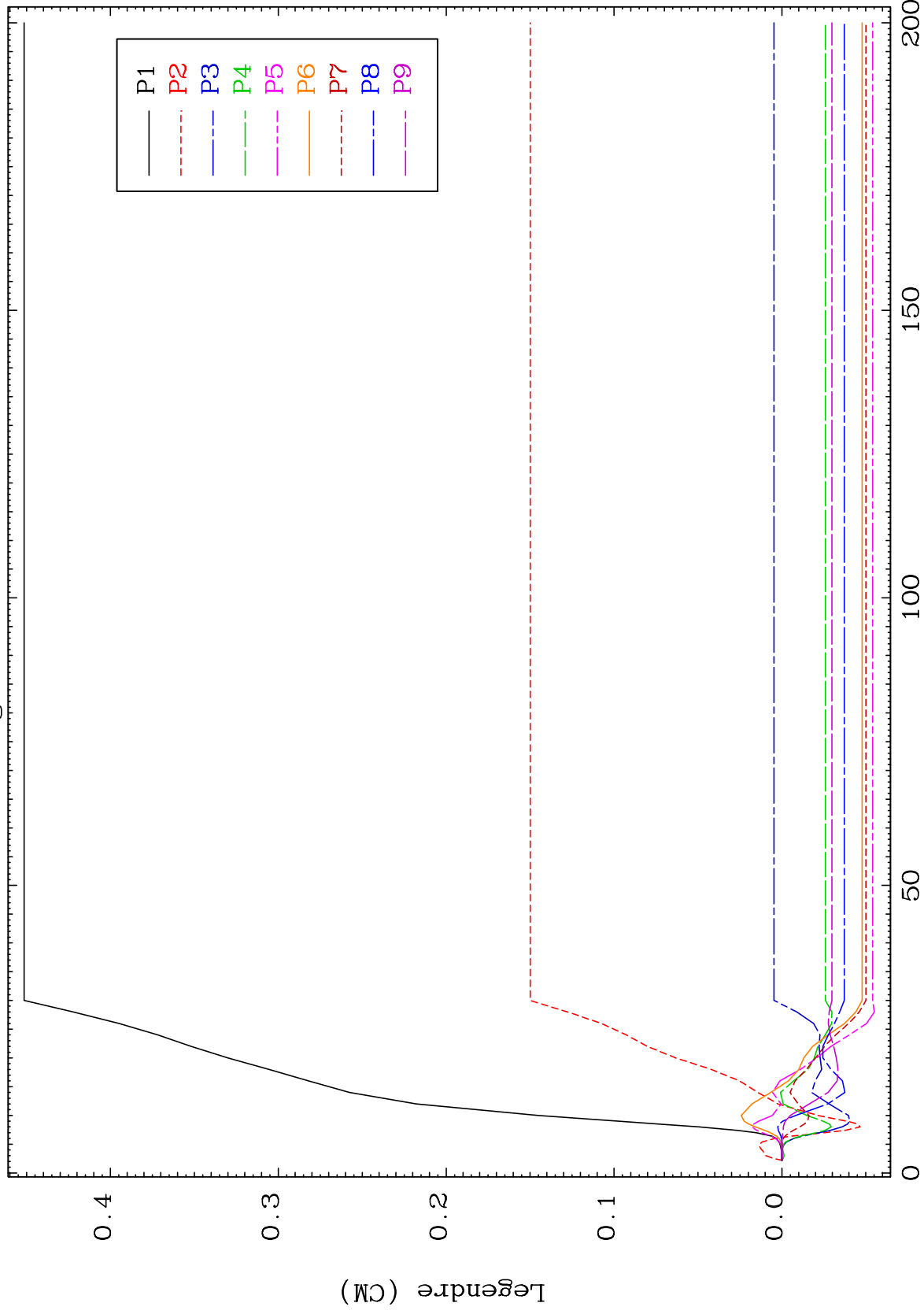
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



114

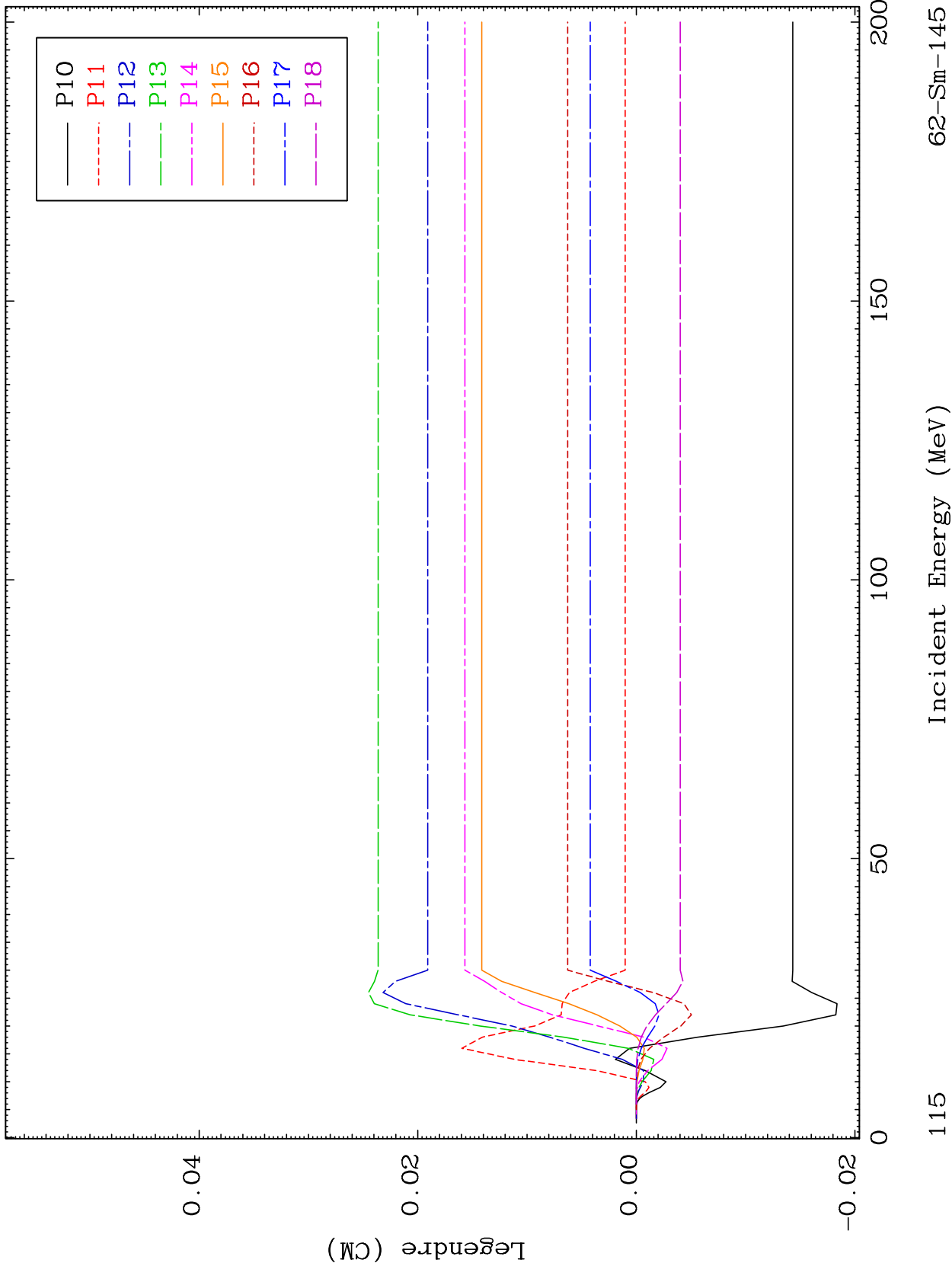
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



62-Sm-145

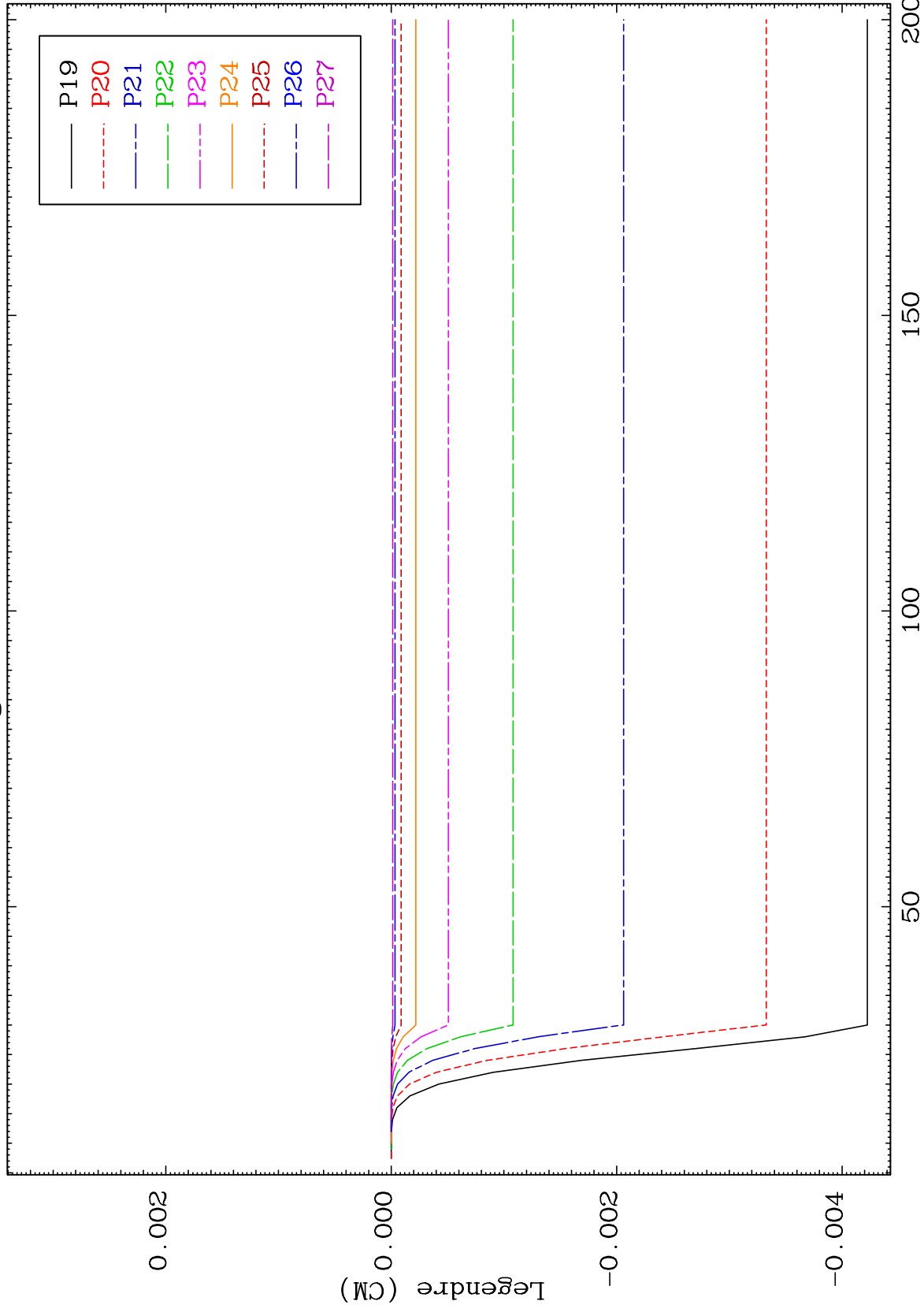
Incident Energy (MeV)

115

MAT 6228

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

62-Sm-145



116

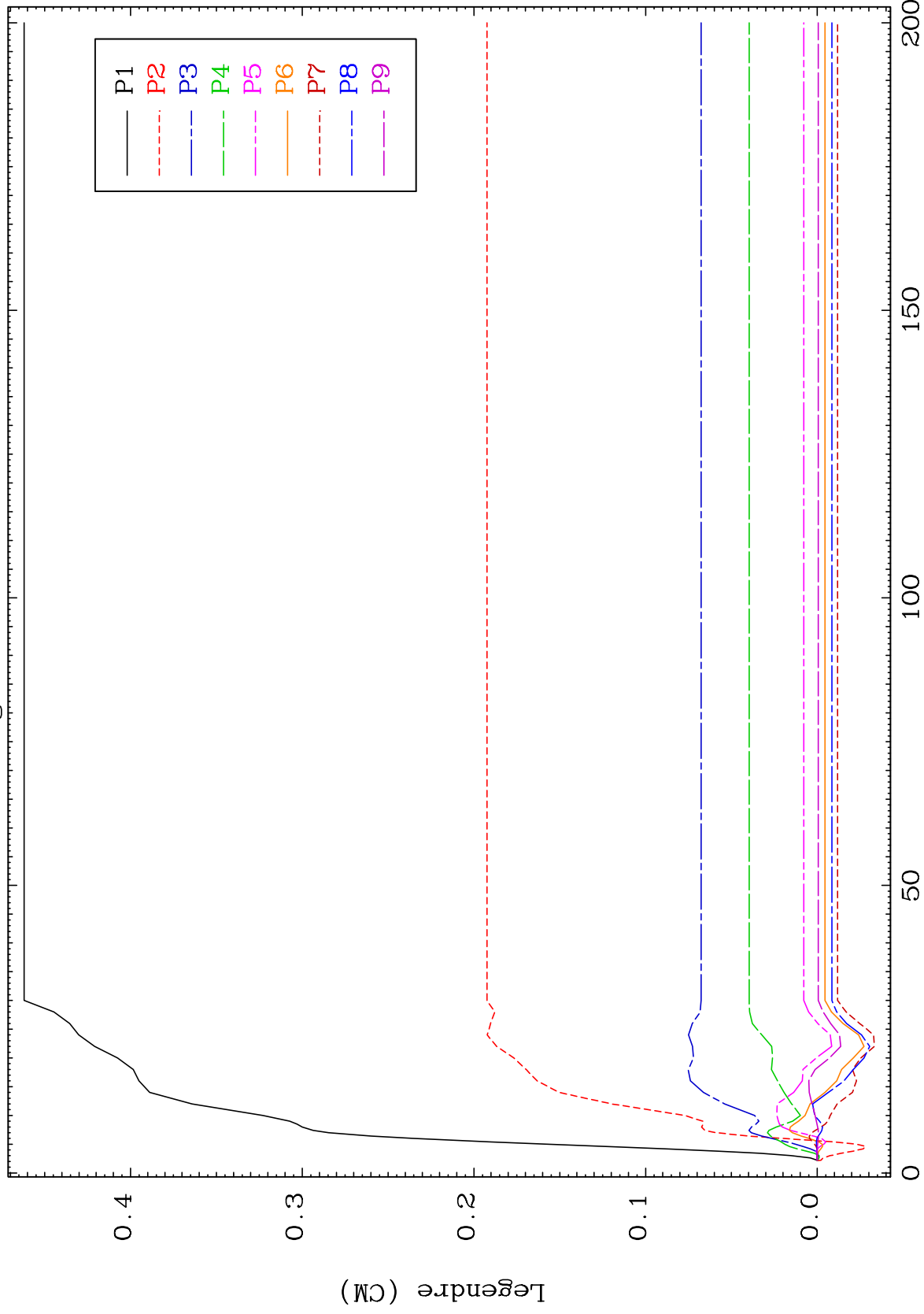
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



118

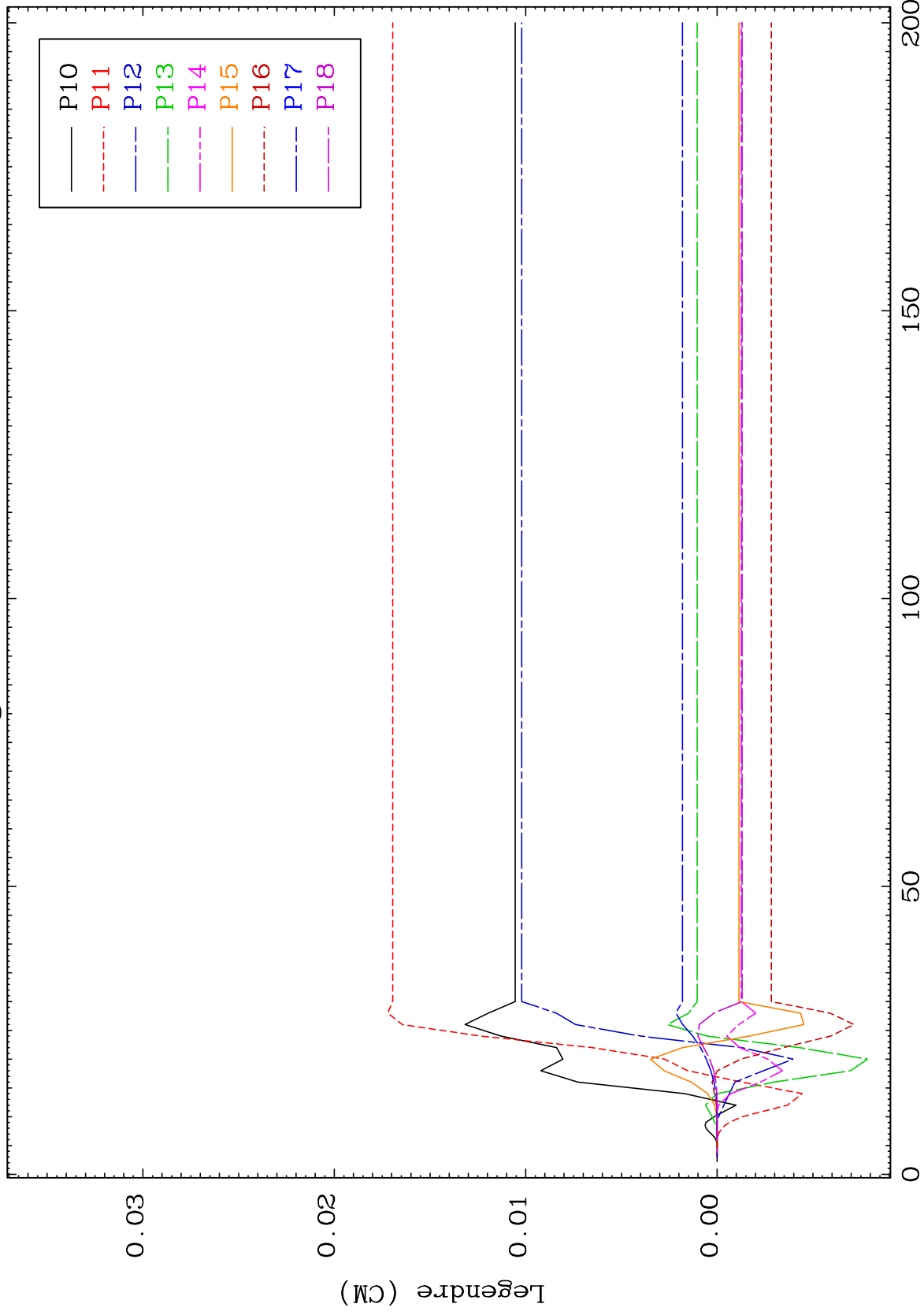
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



119

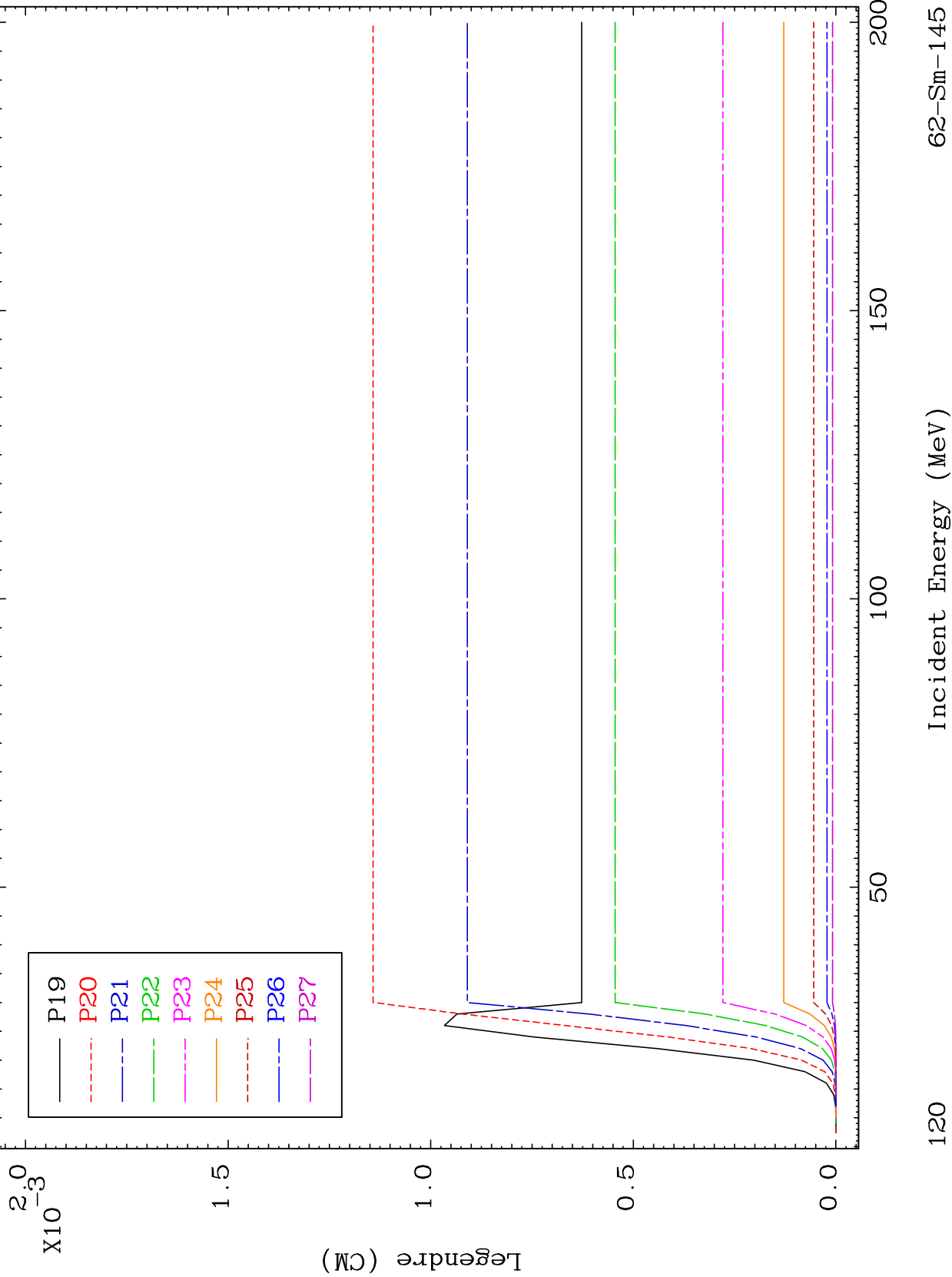
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



120

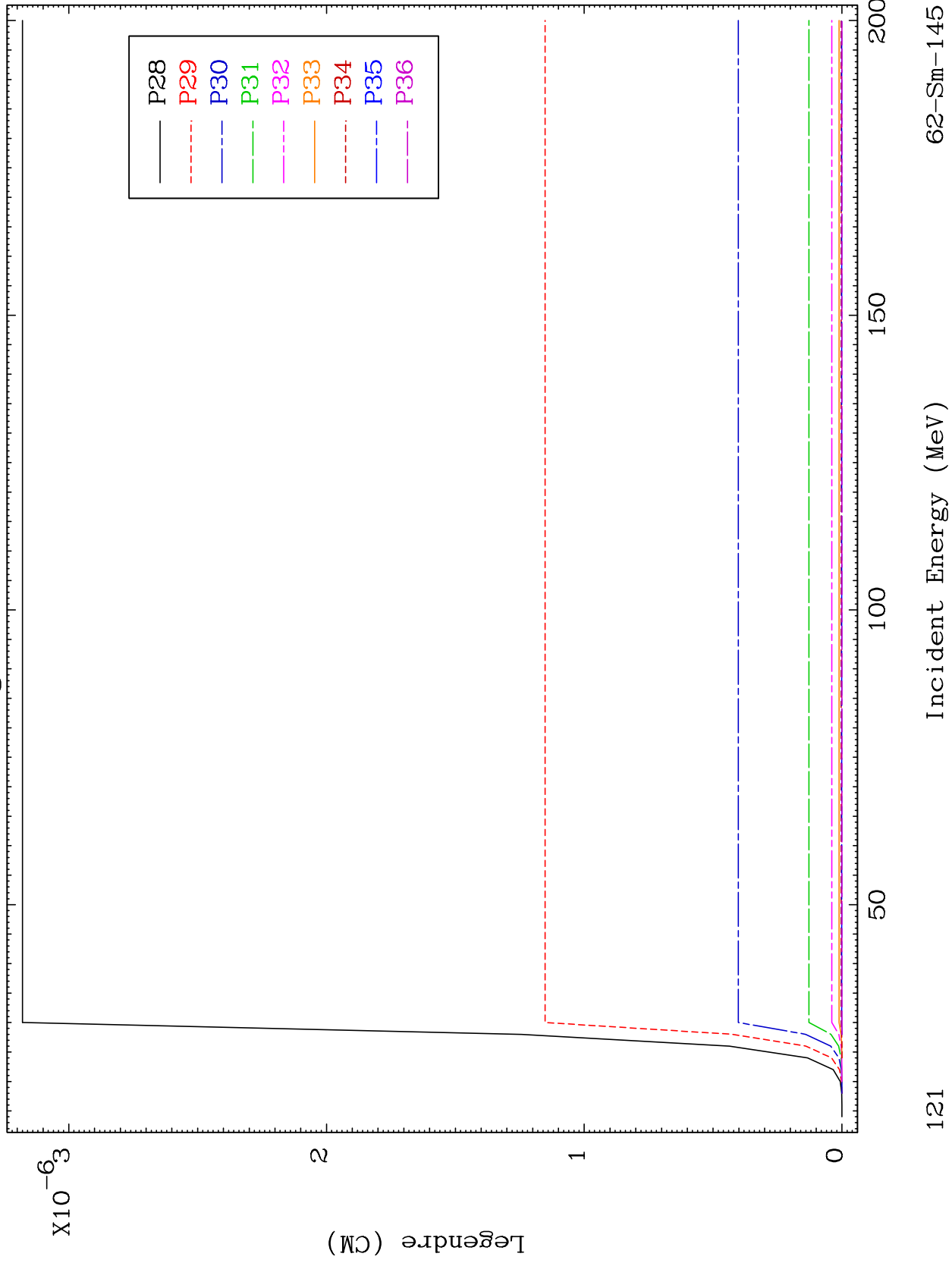
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



121

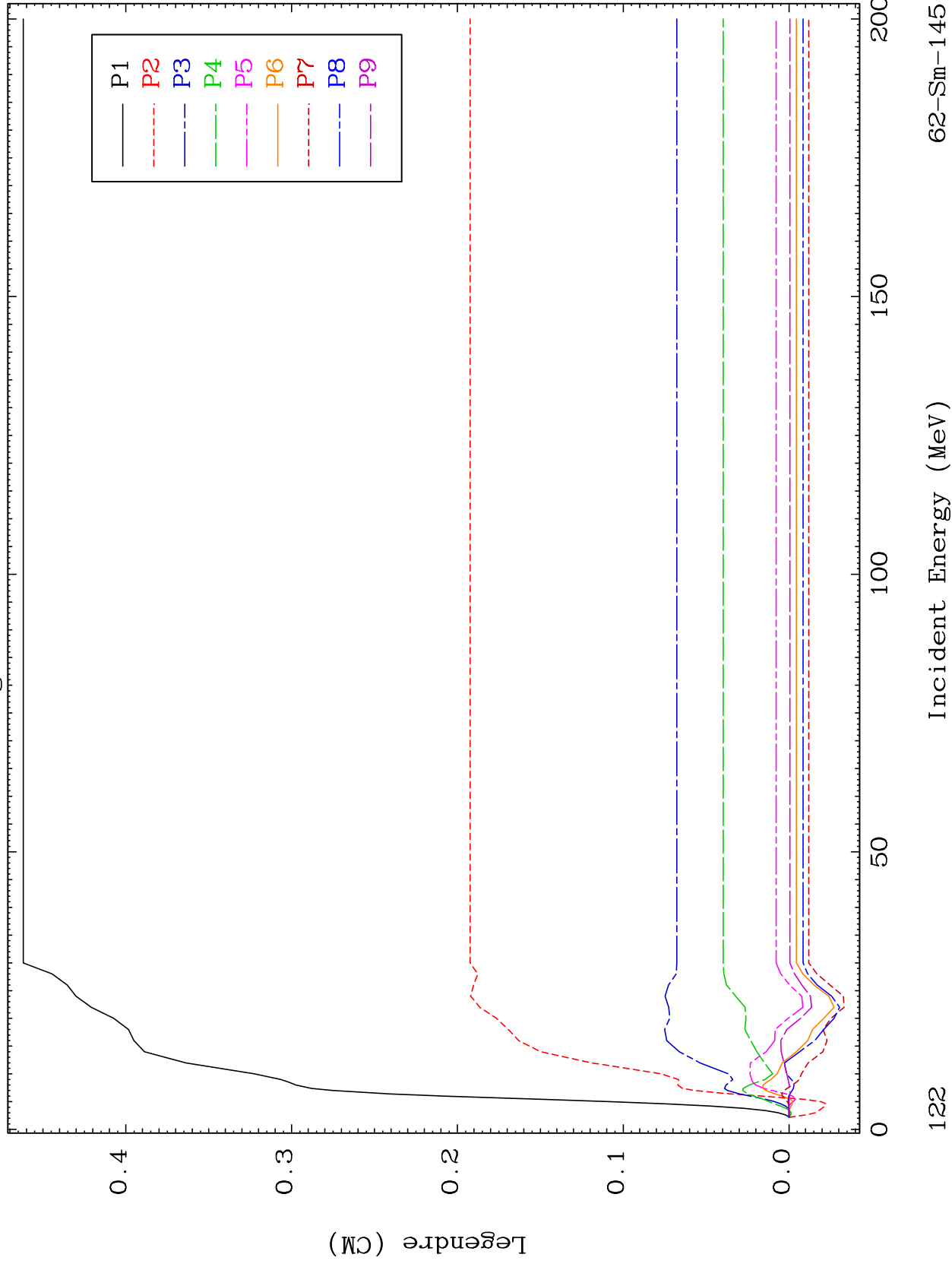
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



62-Sm-145

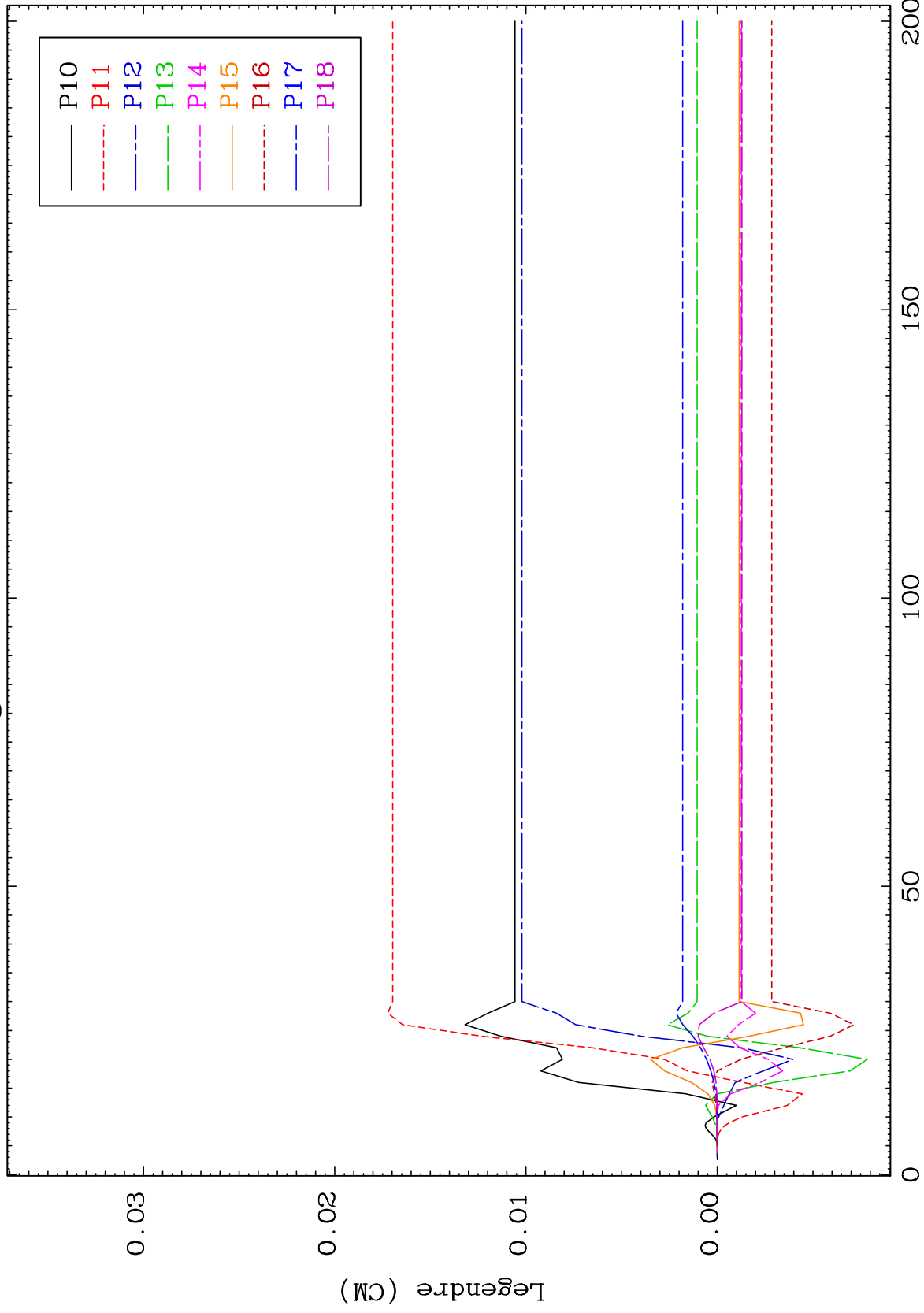
Incident Energy (MeV)

122

MAT 6228

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

62-Sm-145



123

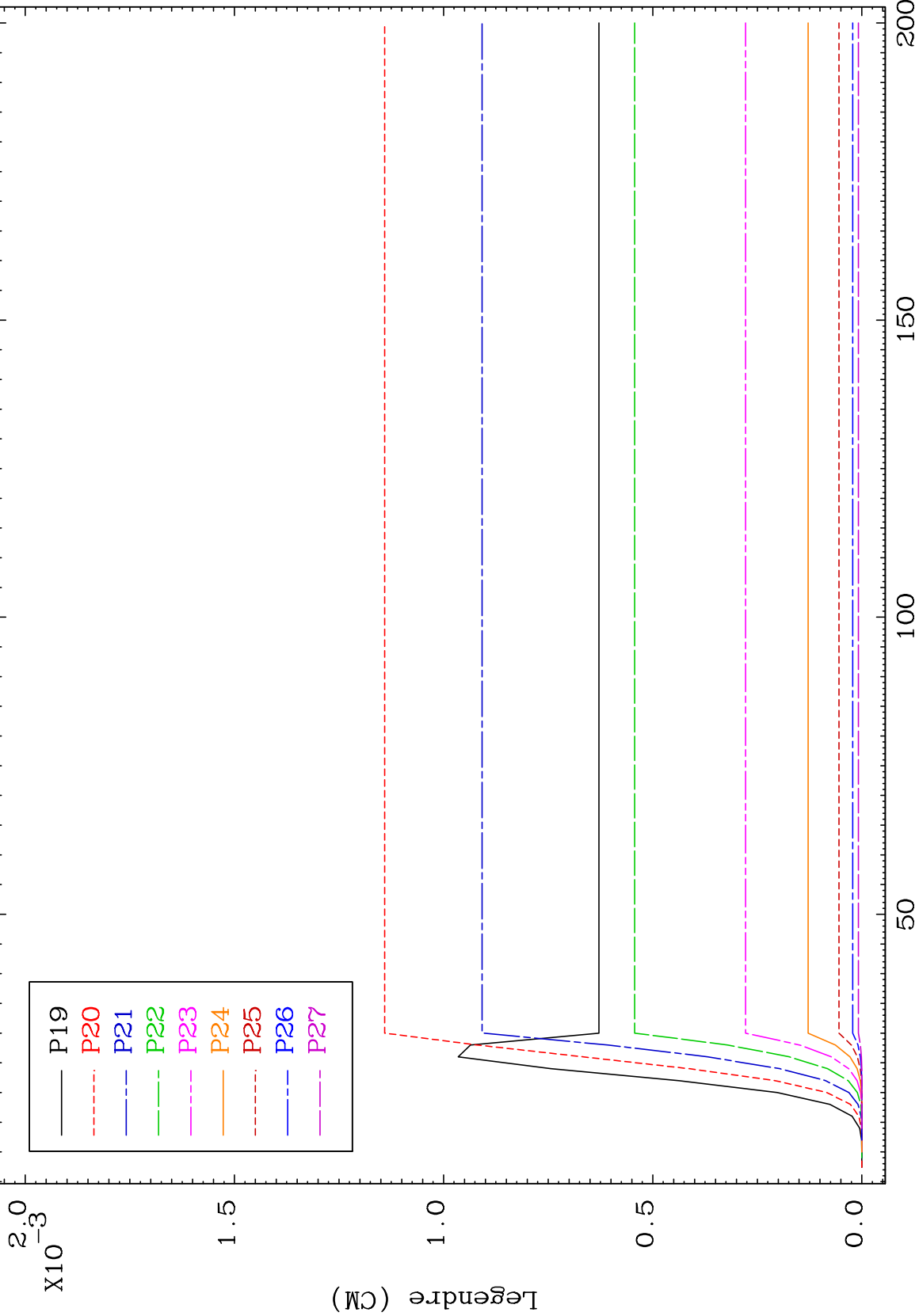
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



124

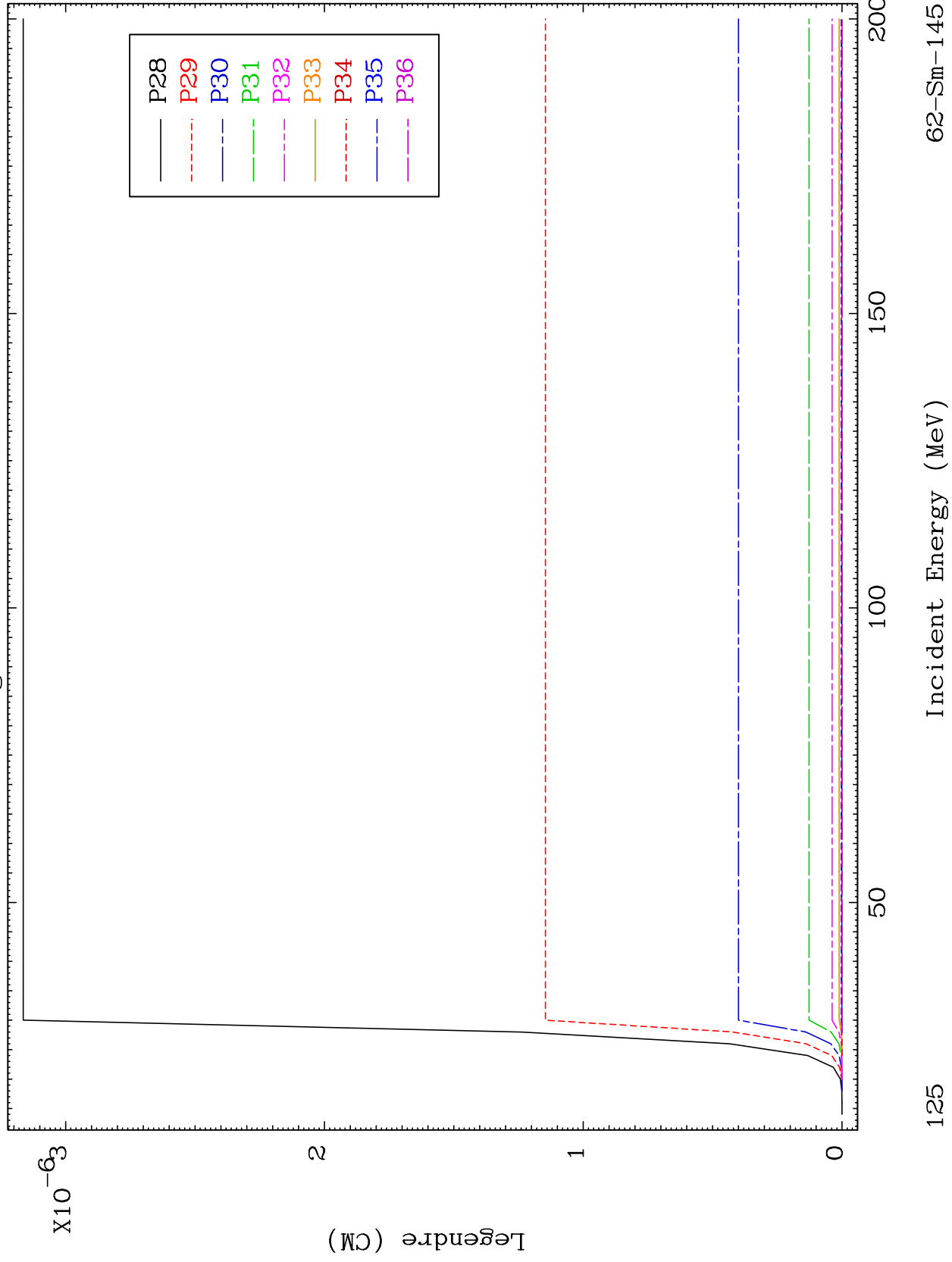
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

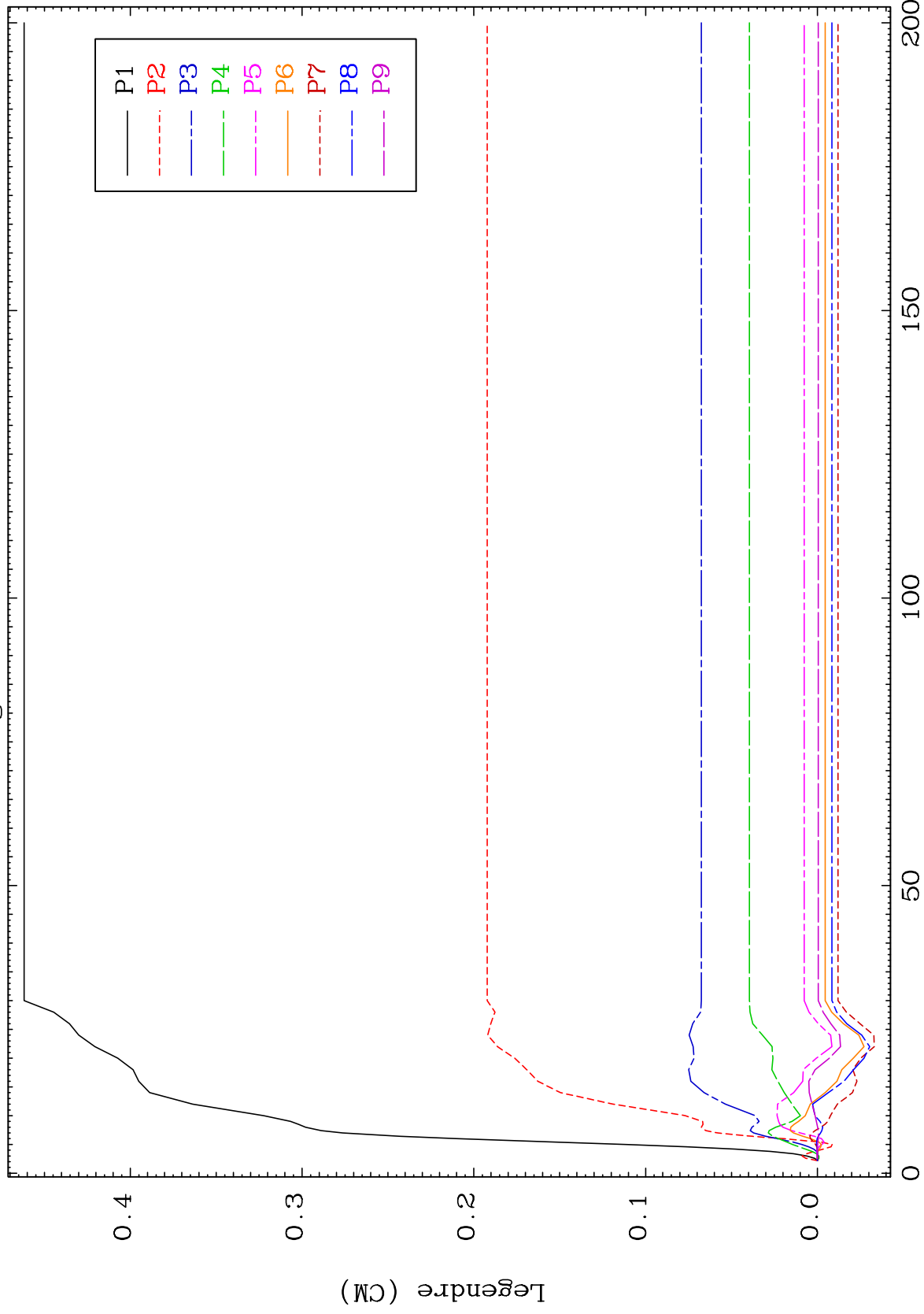
62-Sm-145



MAT 6228

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

62-Sm-145



126

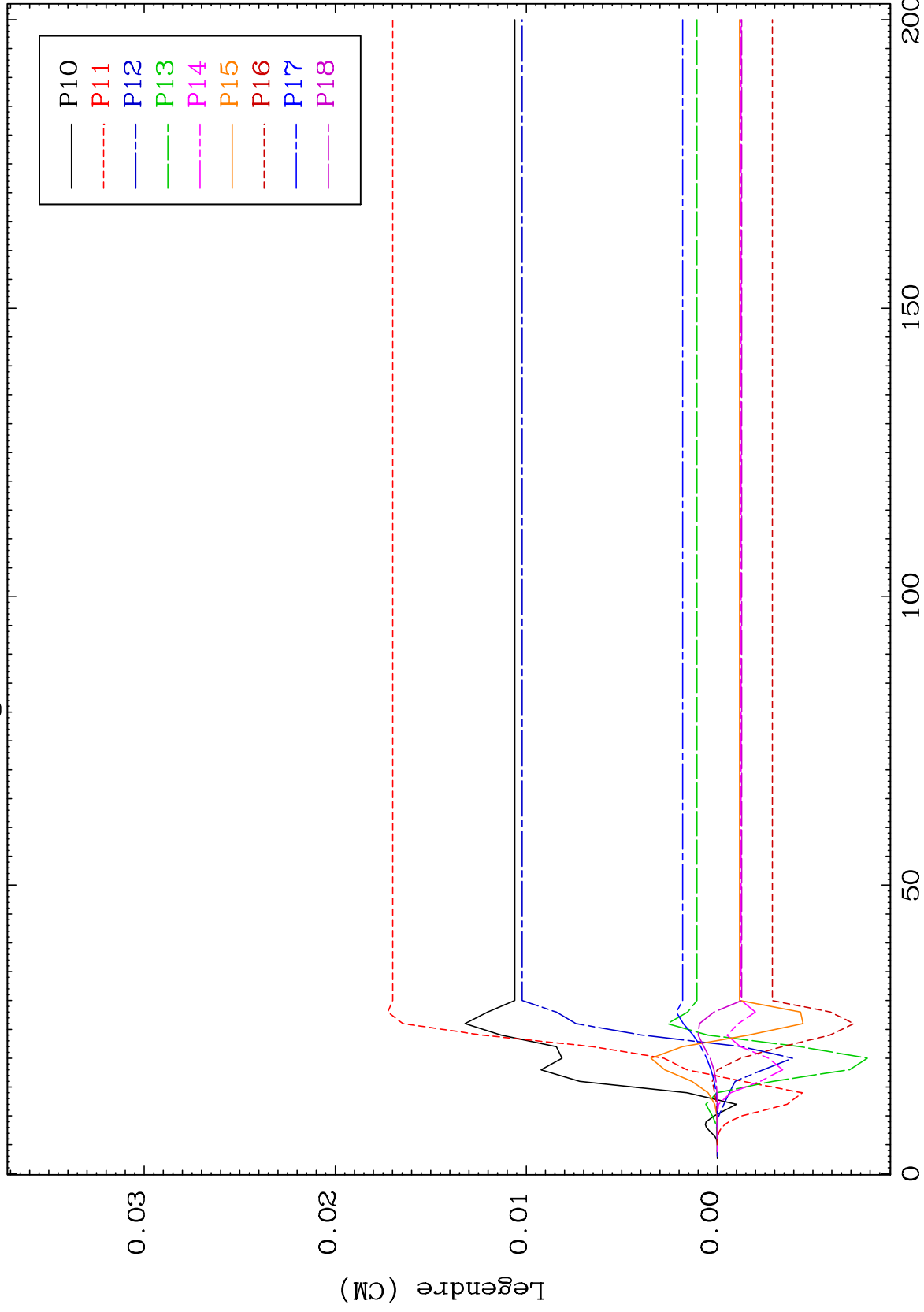
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

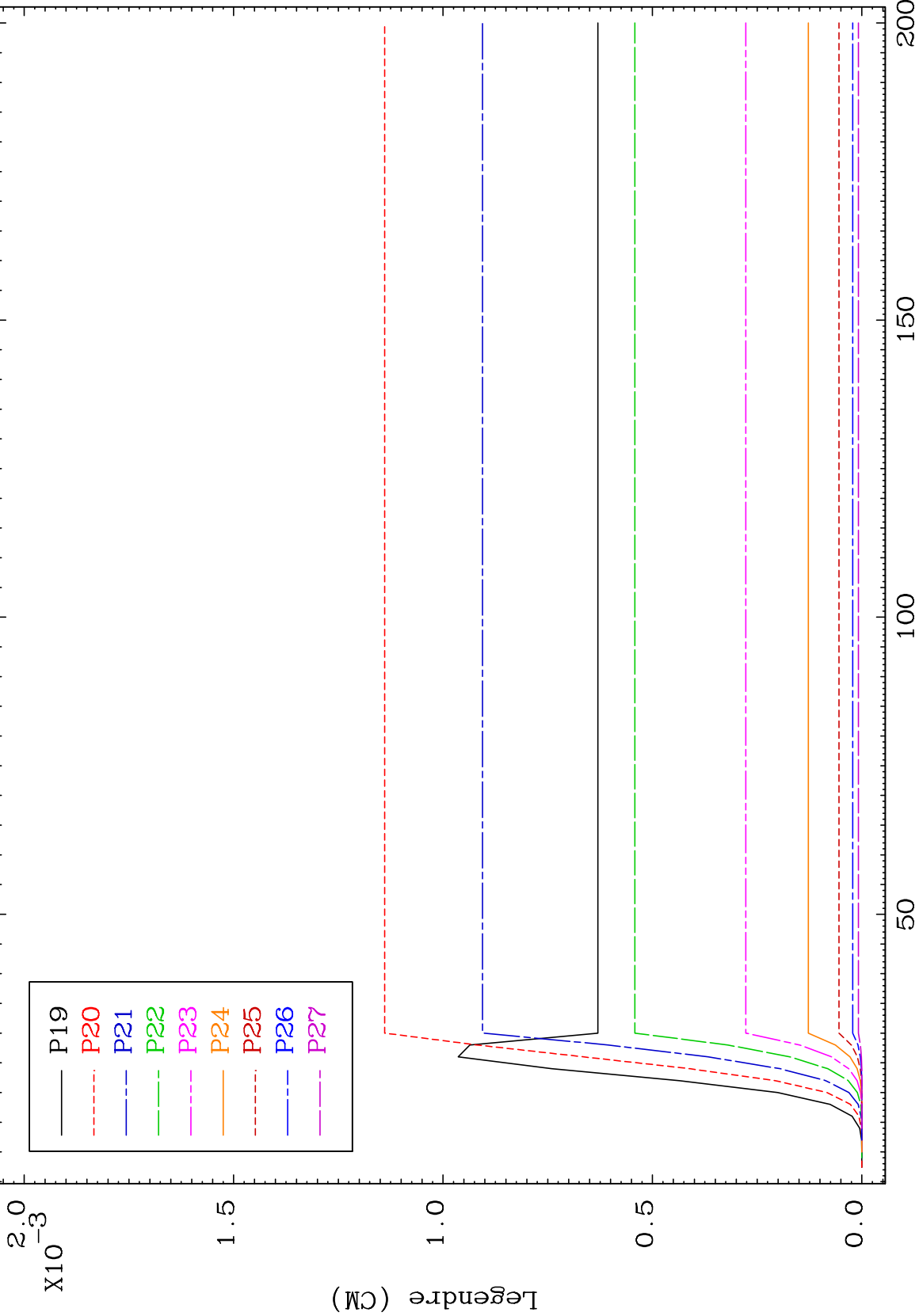
62-Sm-145



127

Incident Energy (MeV)

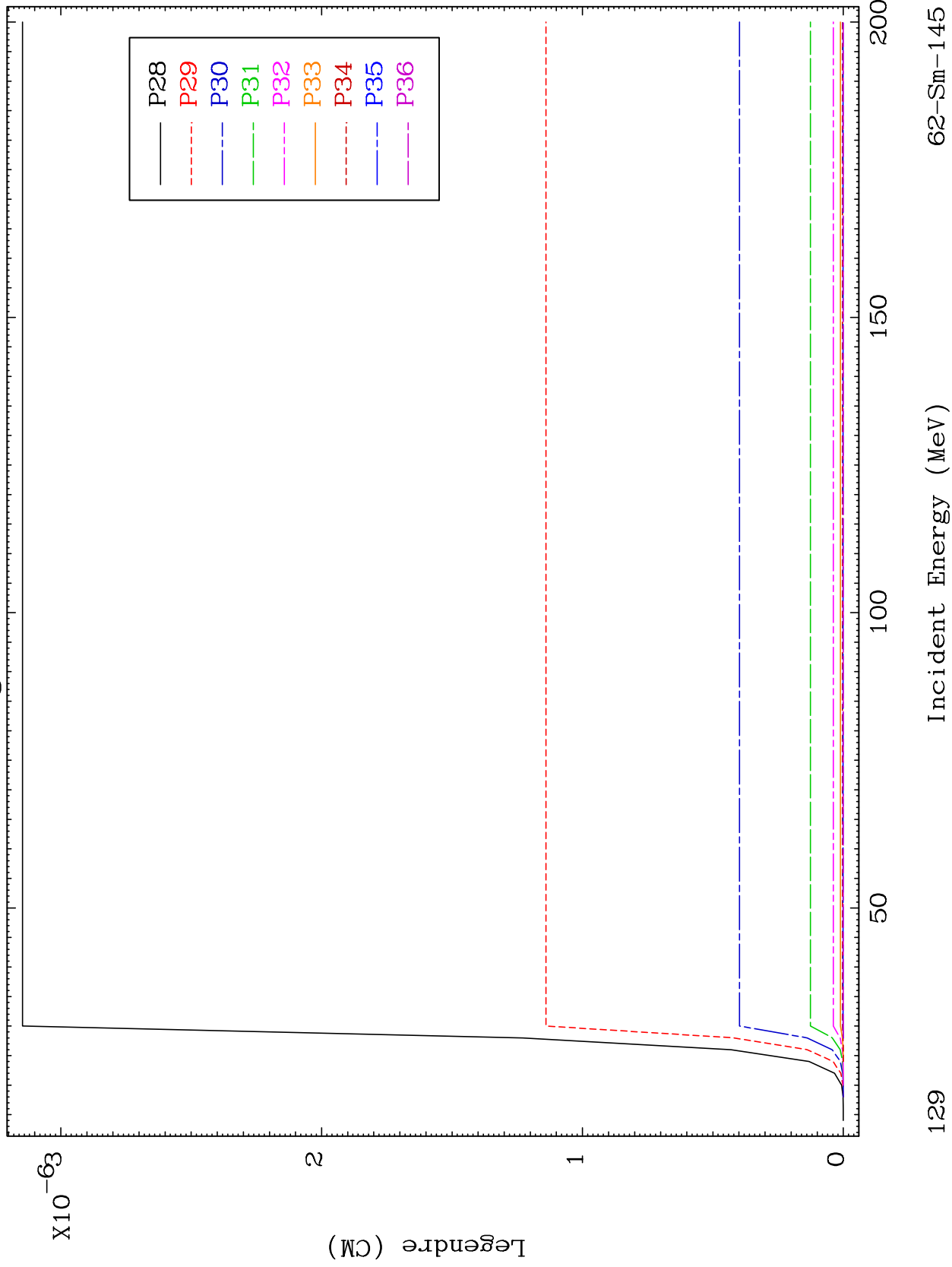
62-Sm-145



MAT 6228

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

62-Sm-145



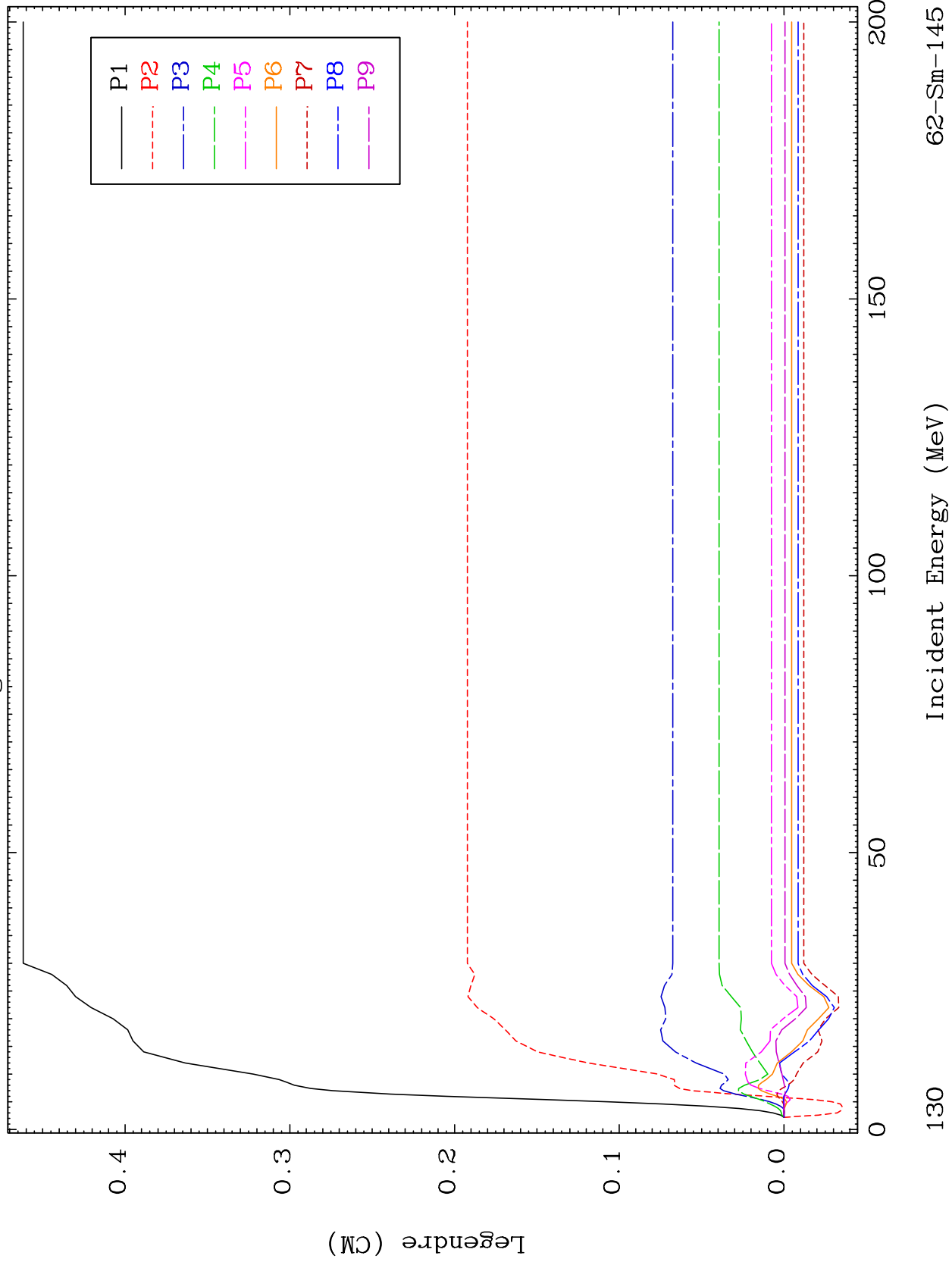
129

62-Sm-145

MAT 6228

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

62-Sm-145



62-Sm-145

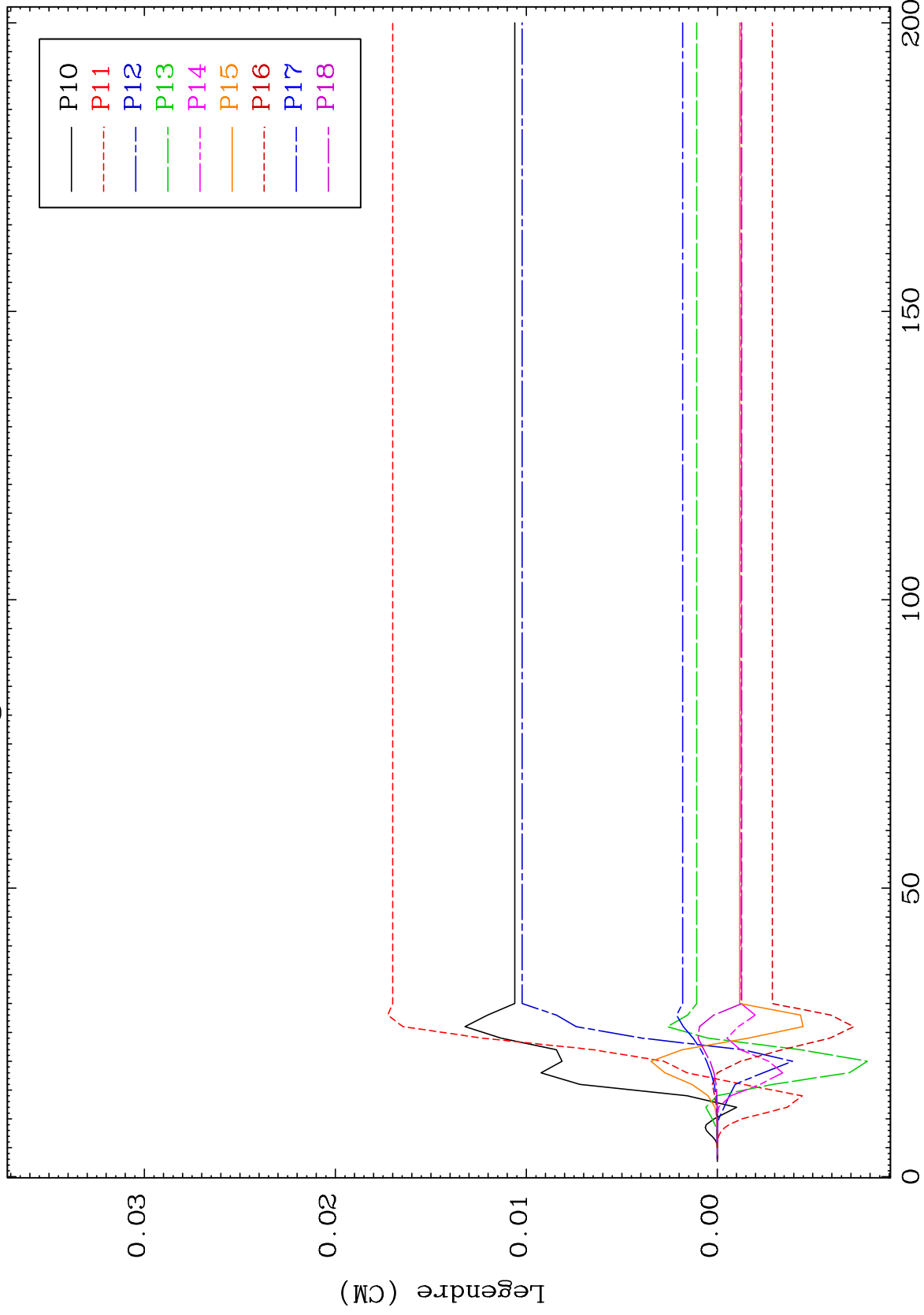
Incident Energy (MeV)

130

MAT 6228

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

62-Sm-145



131

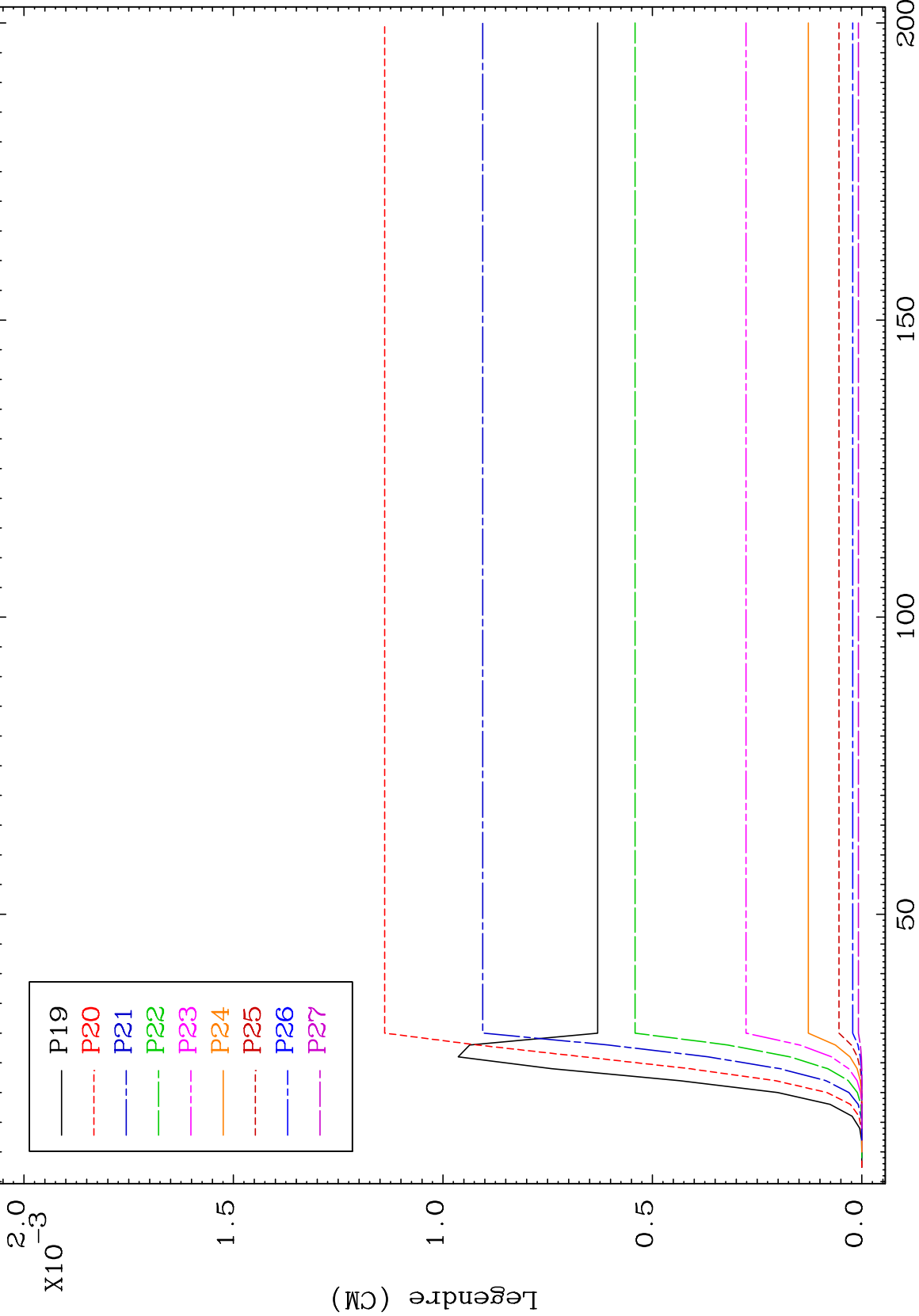
Incident Energy (MeV)

62-Sm-145

MAT 6228

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

62-Sm-145



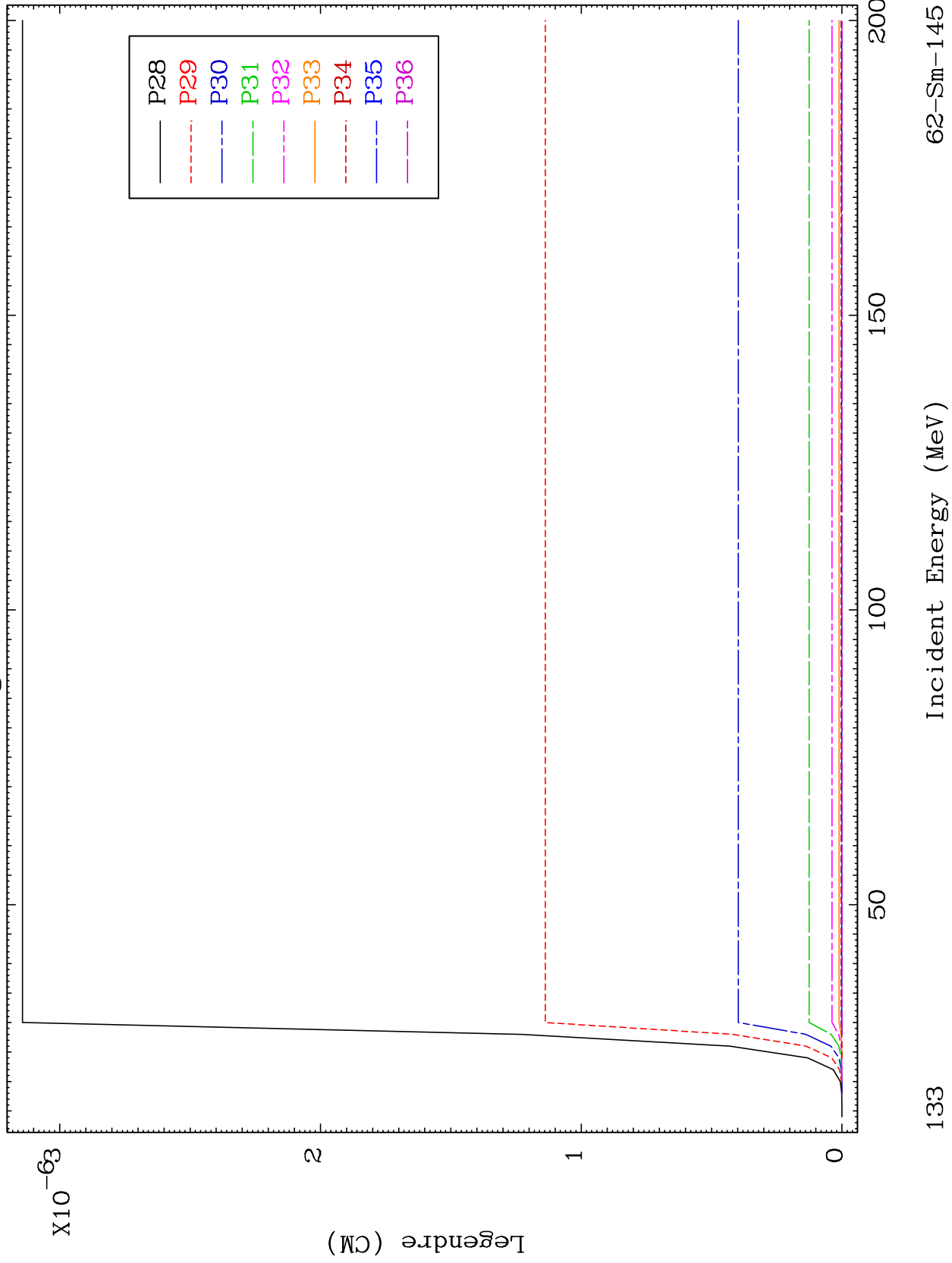
132

62-Sm-145

MAT 6228

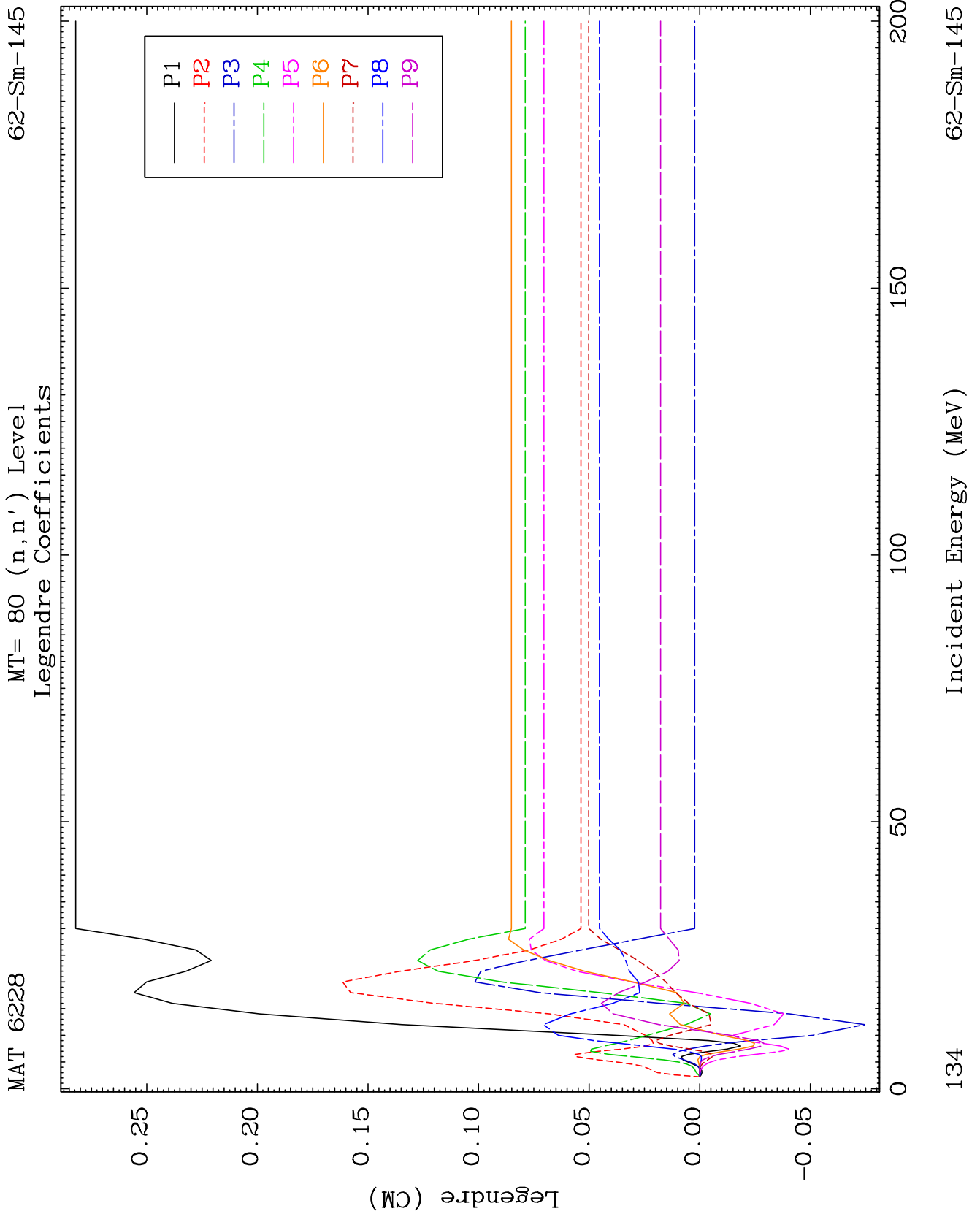
MT= 79 (n,n') Level
Legendre Coefficients

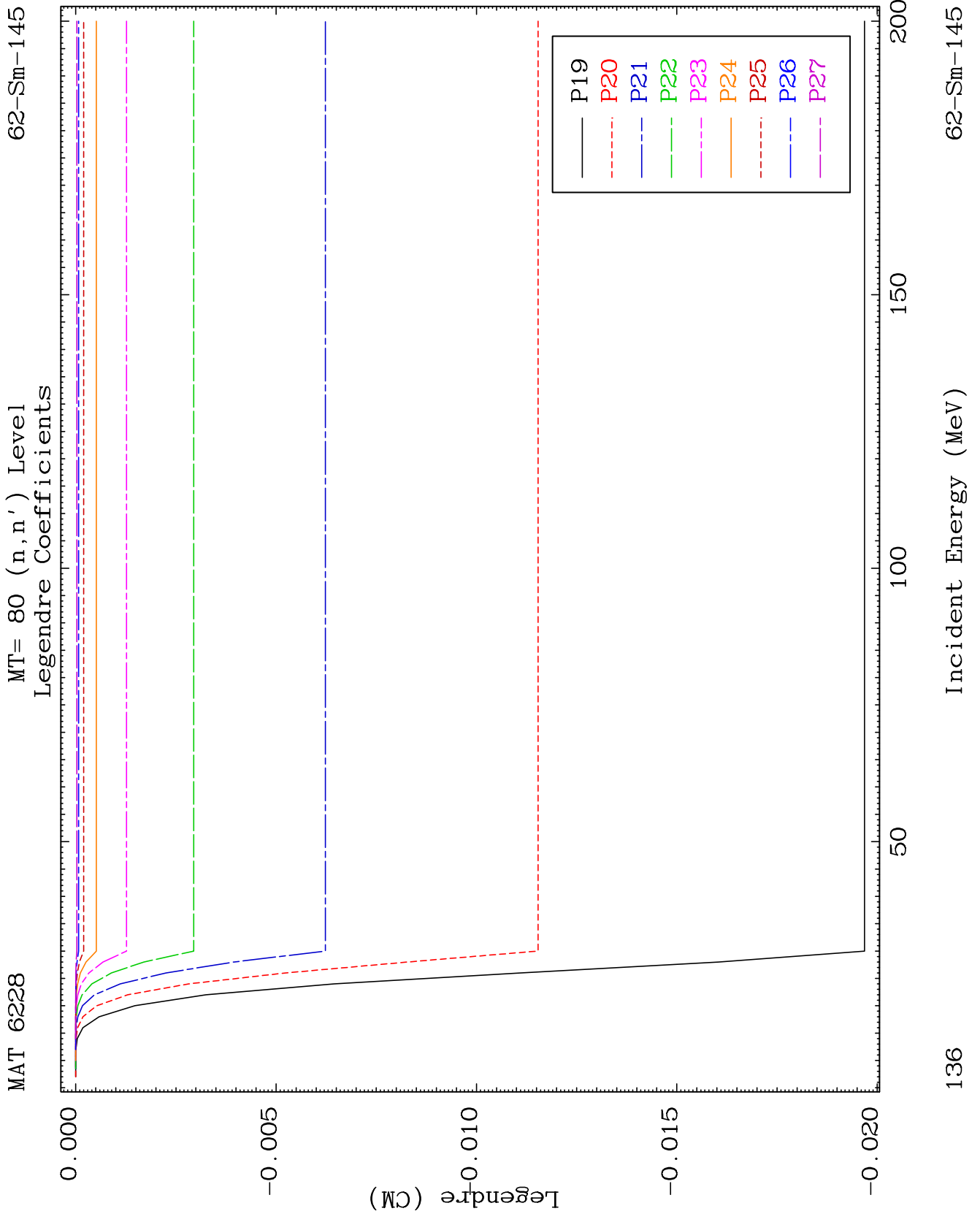
62-Sm-145

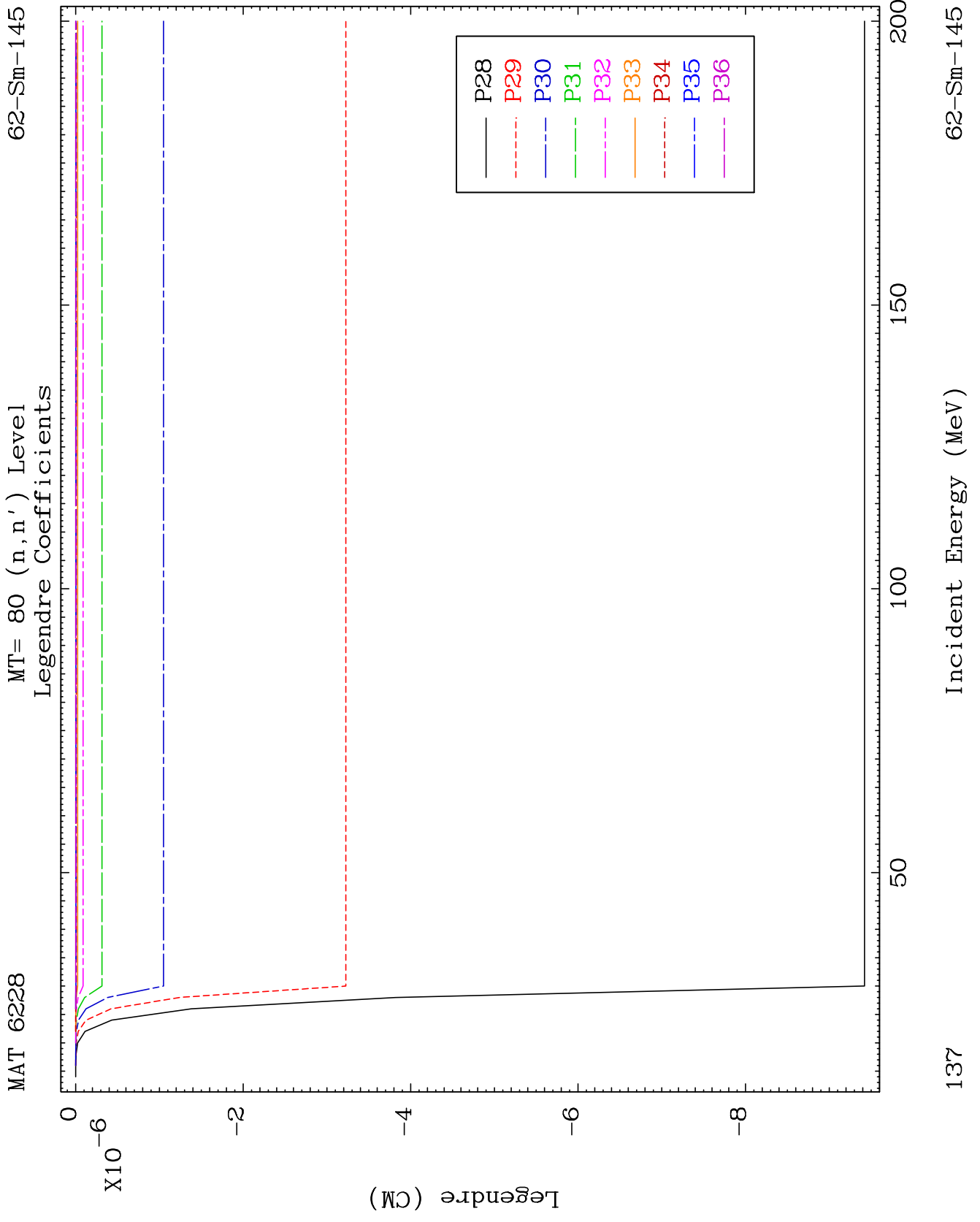


133

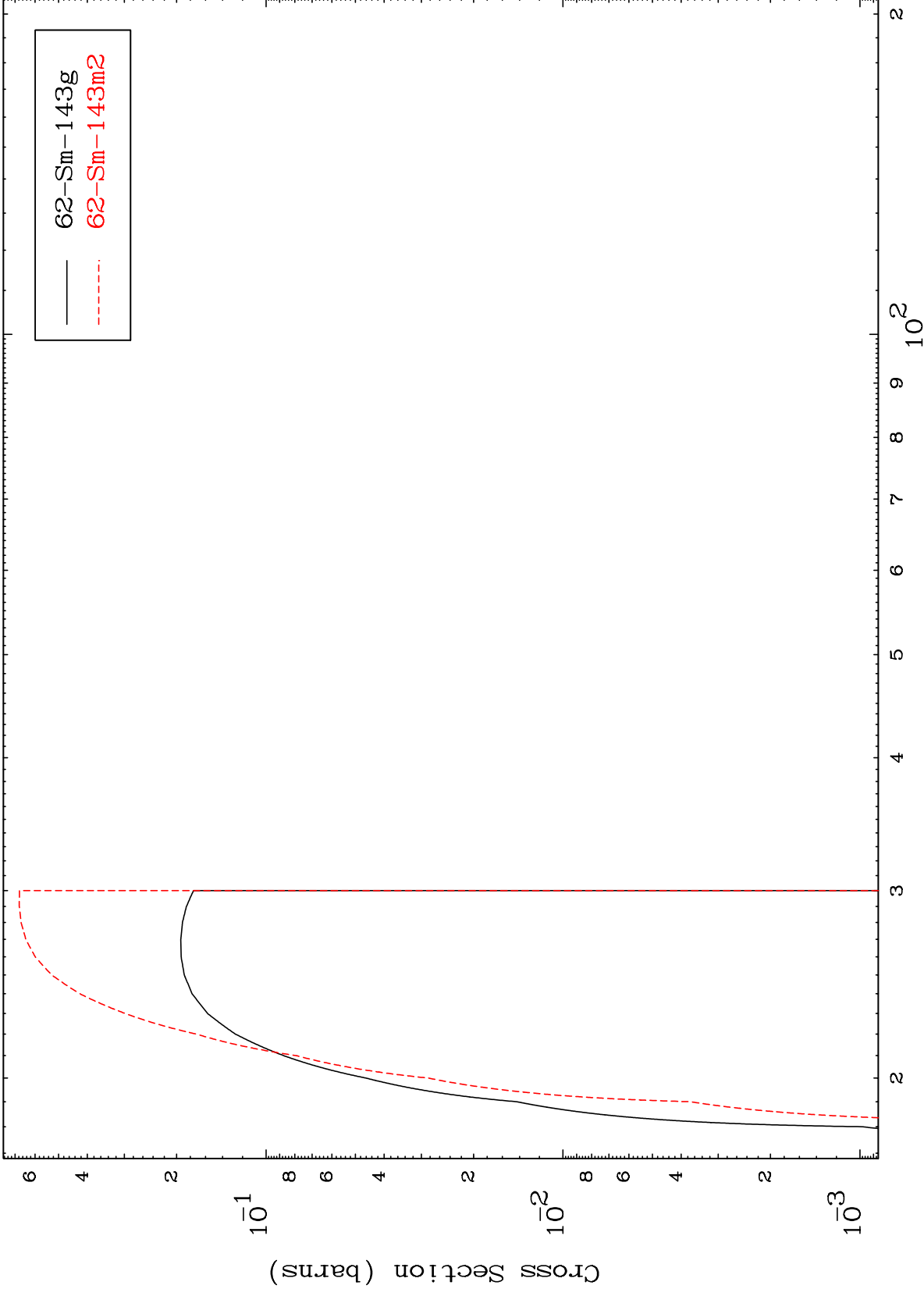
62-Sm-145







Radionuclide Production Cross Section

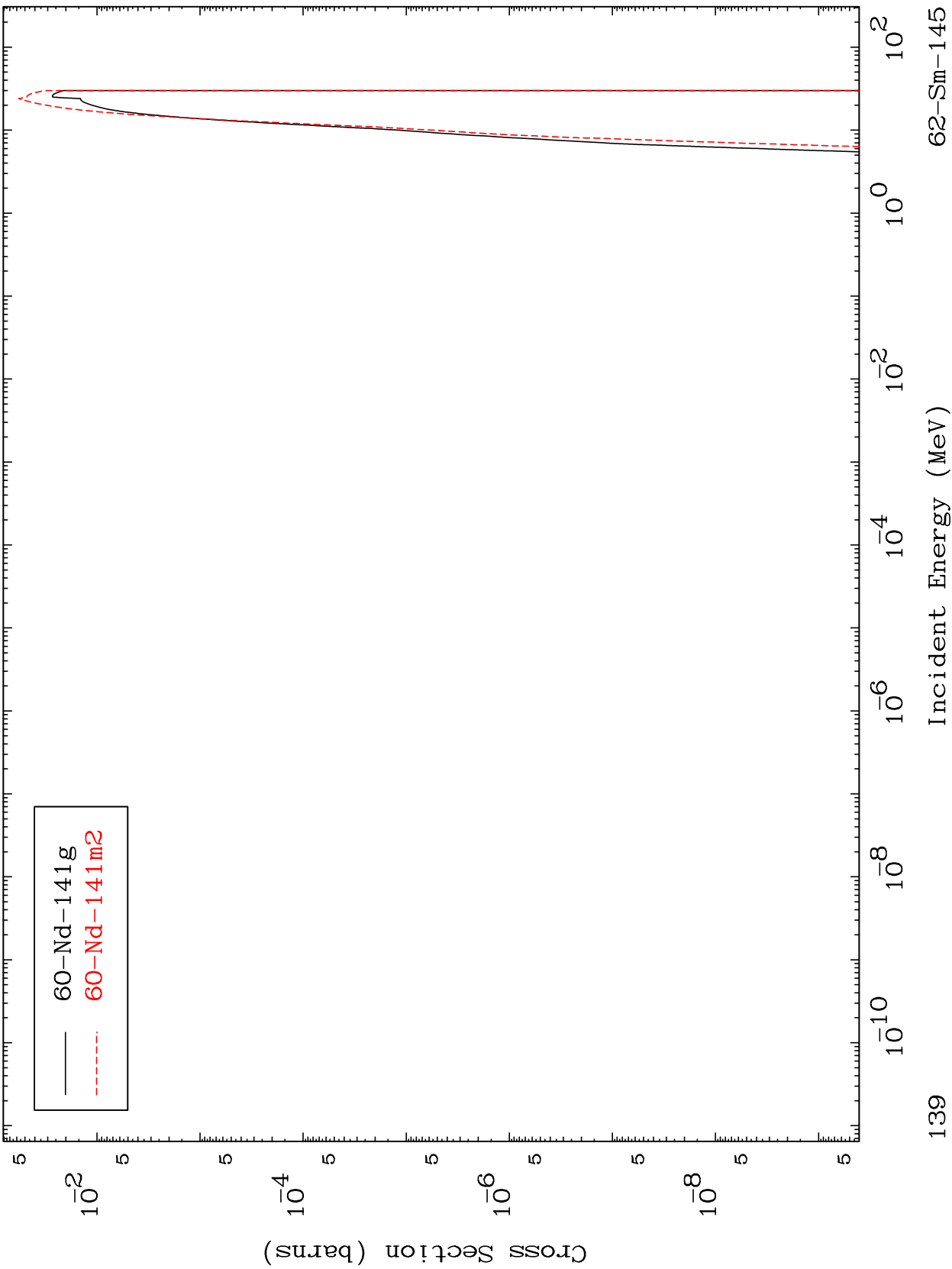


MAT 6228

(n, n') α

$^{62}\text{Sm}-145$

Radionuclide Production Cross Section



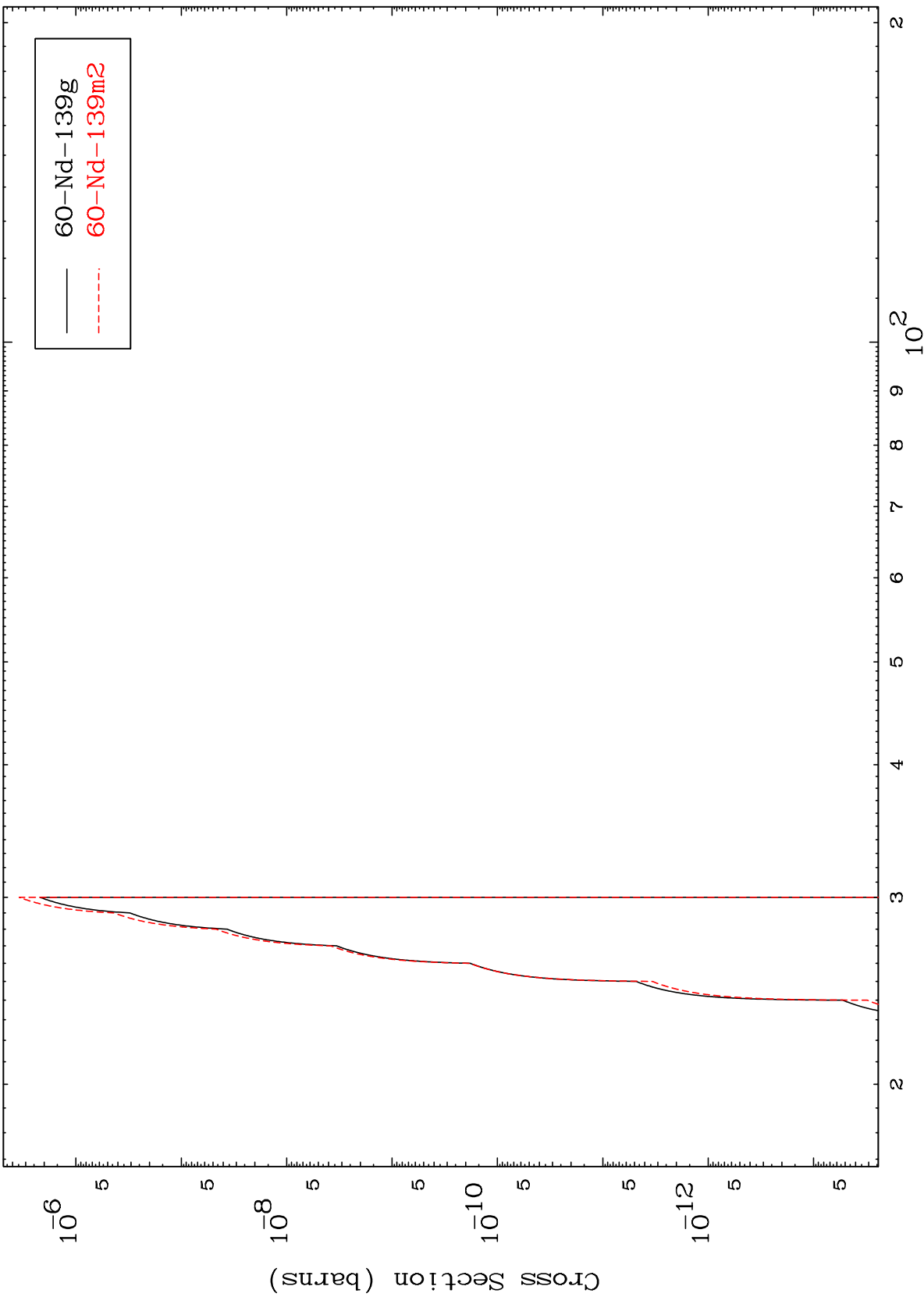
— $^{60}\text{Nd}-141\text{g}$
- - - $^{60}\text{Nd}-141\text{m}2$

MAT 6228

$(n,3n) \alpha$

62-Sm-145

Radionuclide Production Cross Section



140

Incident Energy (MeV)

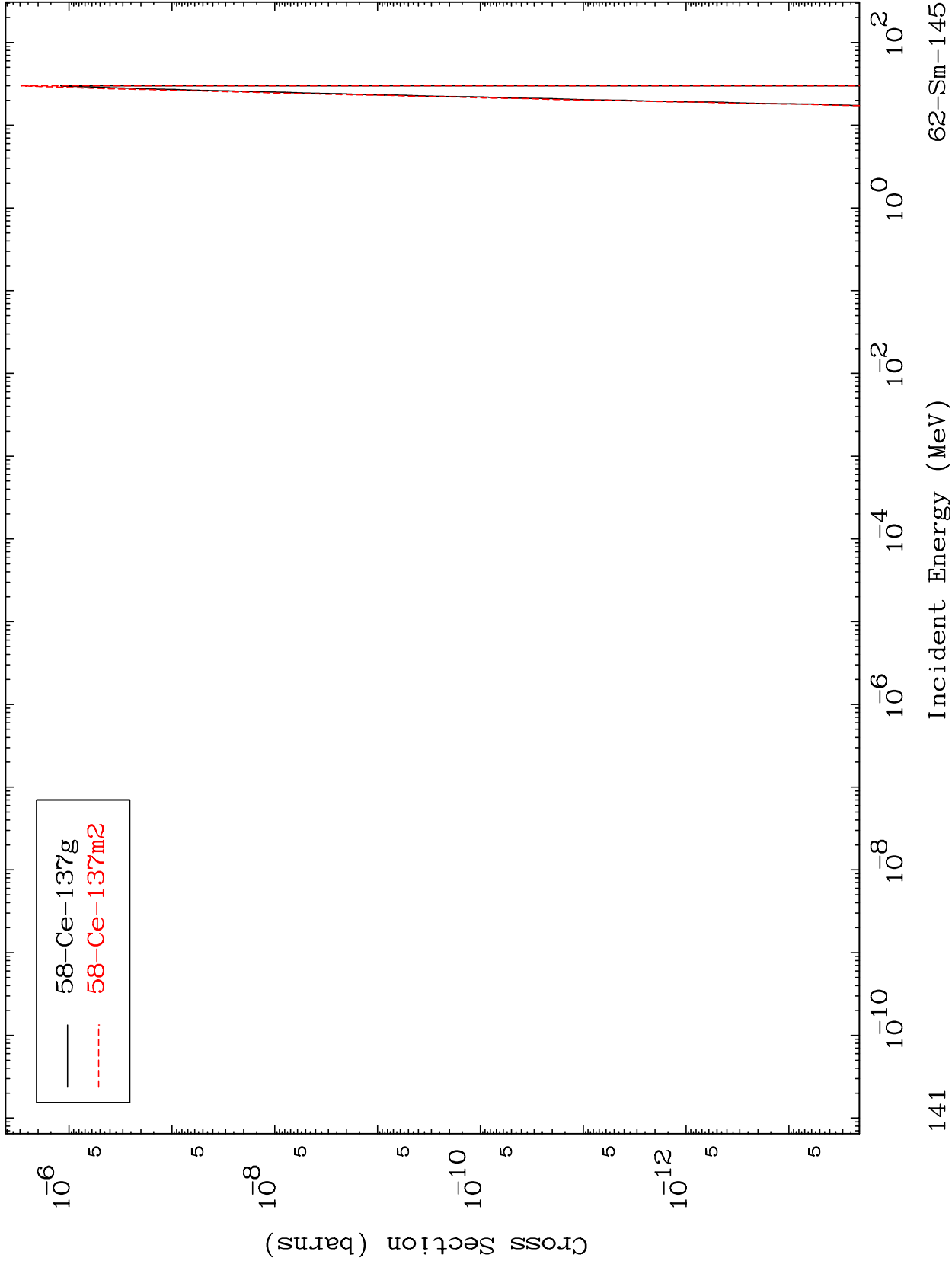
62-Sm-145

MAT 6228

(n,n') 2 α

62-Sm-145

Radionuclide Production Cross Section



141

Incident Energy (MeV)

62-Sm-145