

Program EVALPLOT
(Version 2017-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

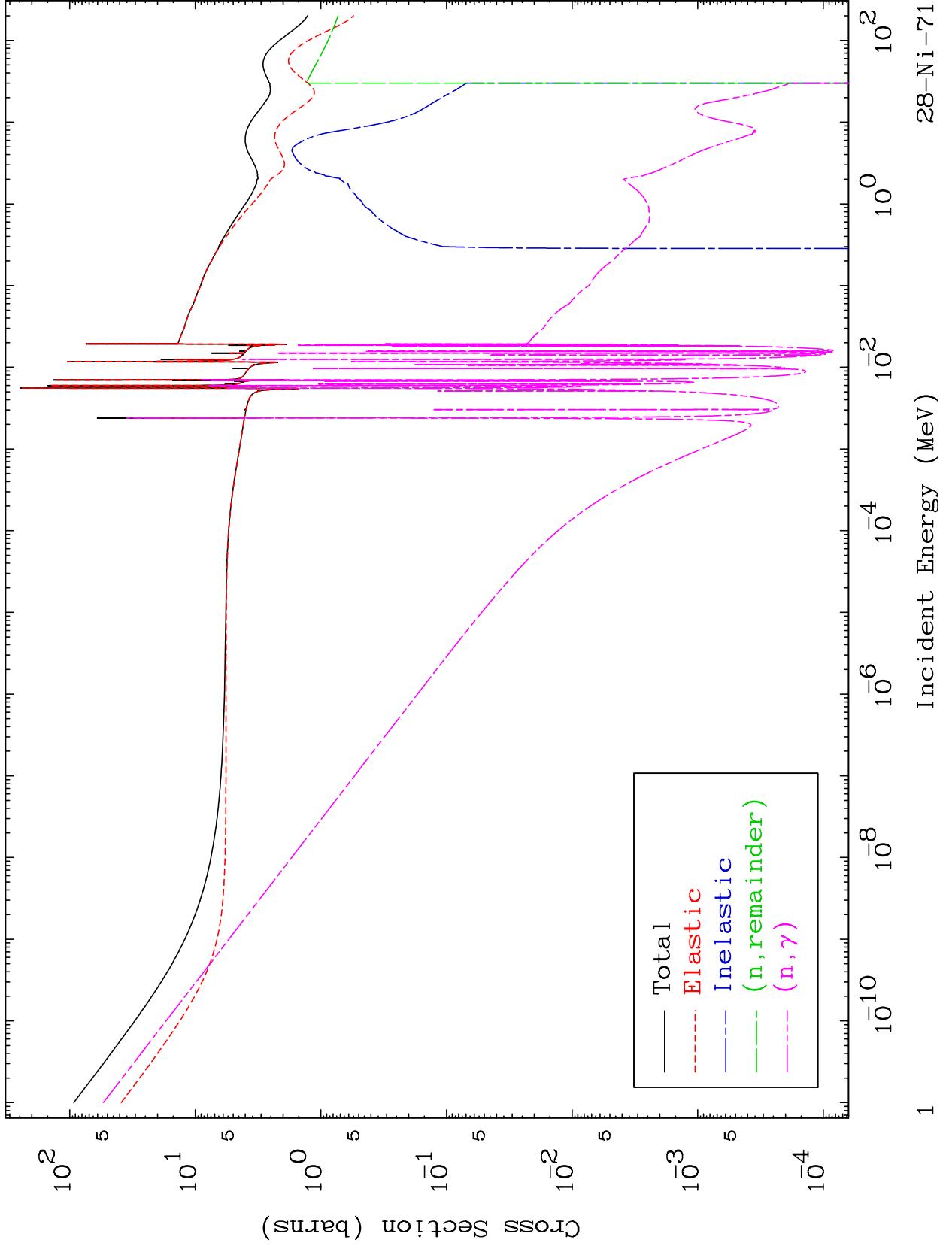
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2864

Major
293 Kelvin Cross Sections

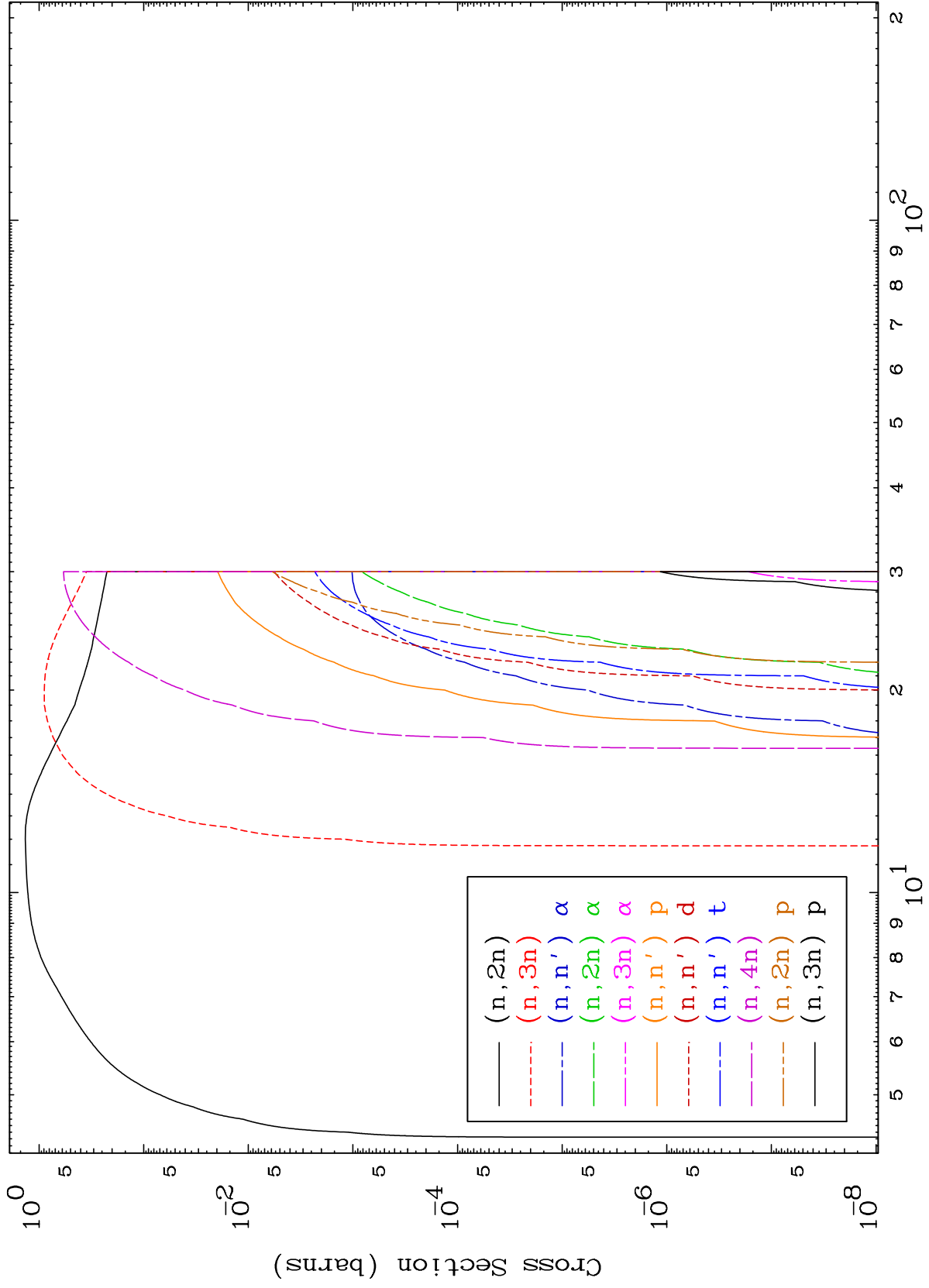
28-Ni-71



MAT 2864

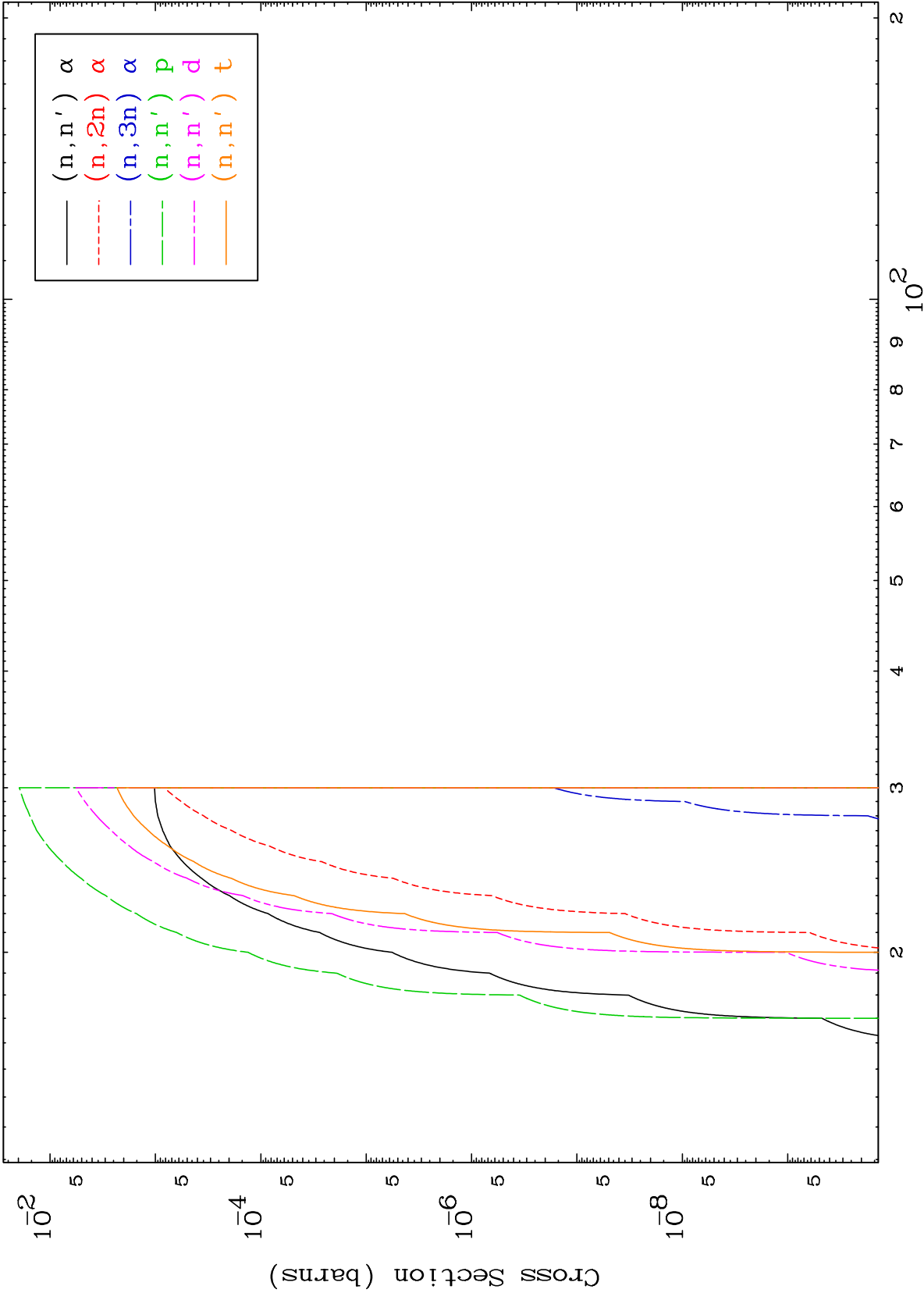
Neutron Production
293 Kelvin Cross Sections

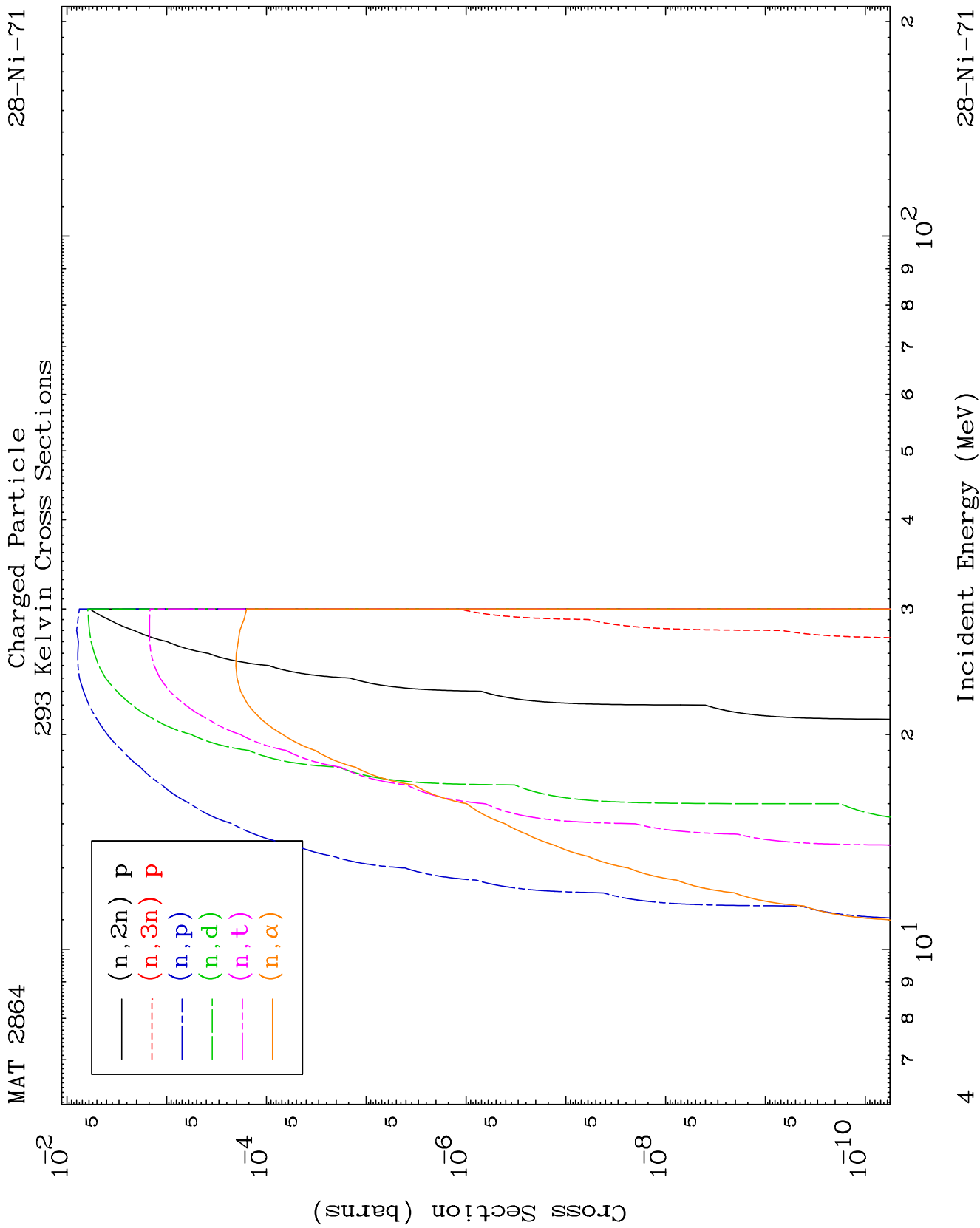
28-Ni-71



Incident Energy (MeV)

28-Ni-71

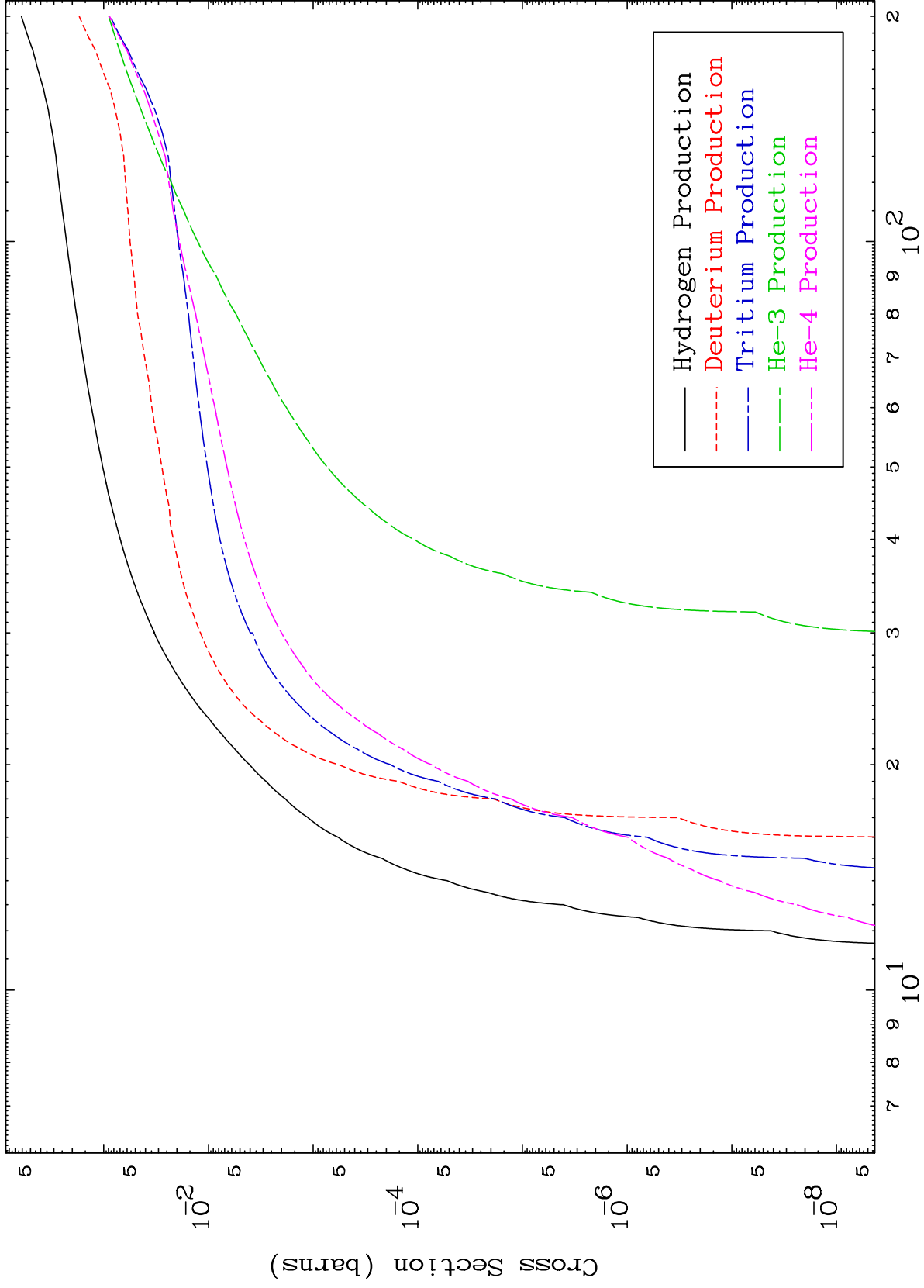




MAT 2864

Particle Production
293 Kelvin Cross Sections

28-Ni-71



5

Incident Energy (MeV)

28-Ni-71

MAT 2864

(n,n') Level

28-Ni-71

293 Kelvin Cross Sections

10^4

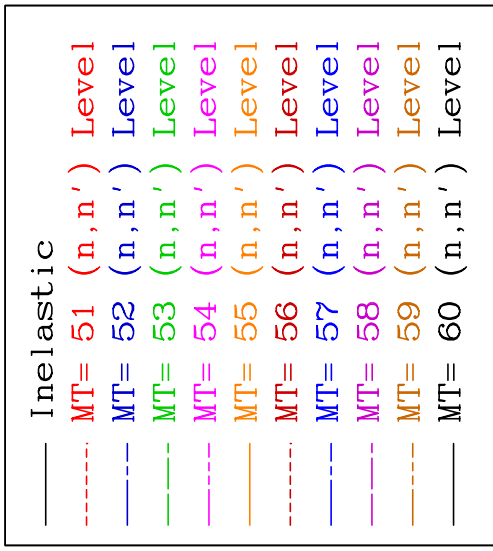
10^2

10^0

10^{-2}

10^{-4}

Cross Section (barns)



4 6 8 10⁰ 2 4 6 8 10¹ 2 4 6 8 10² 2

Incident Energy (MeV)

28-Ni-71

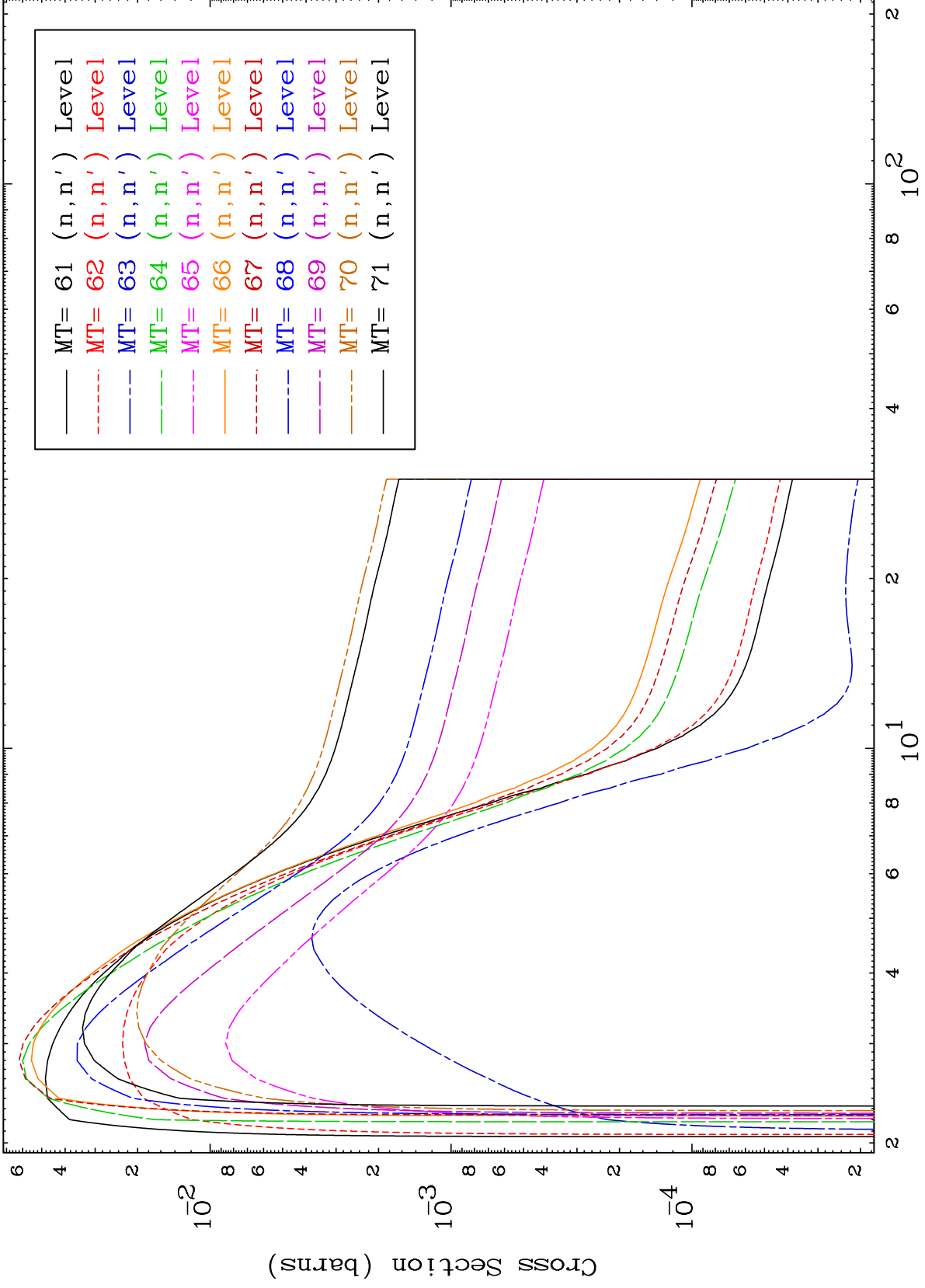
6

MAT 2864

(n,n') Level

28-Ni-71

293 Kelvin Cross Sections



7

Incident Energy (MeV)

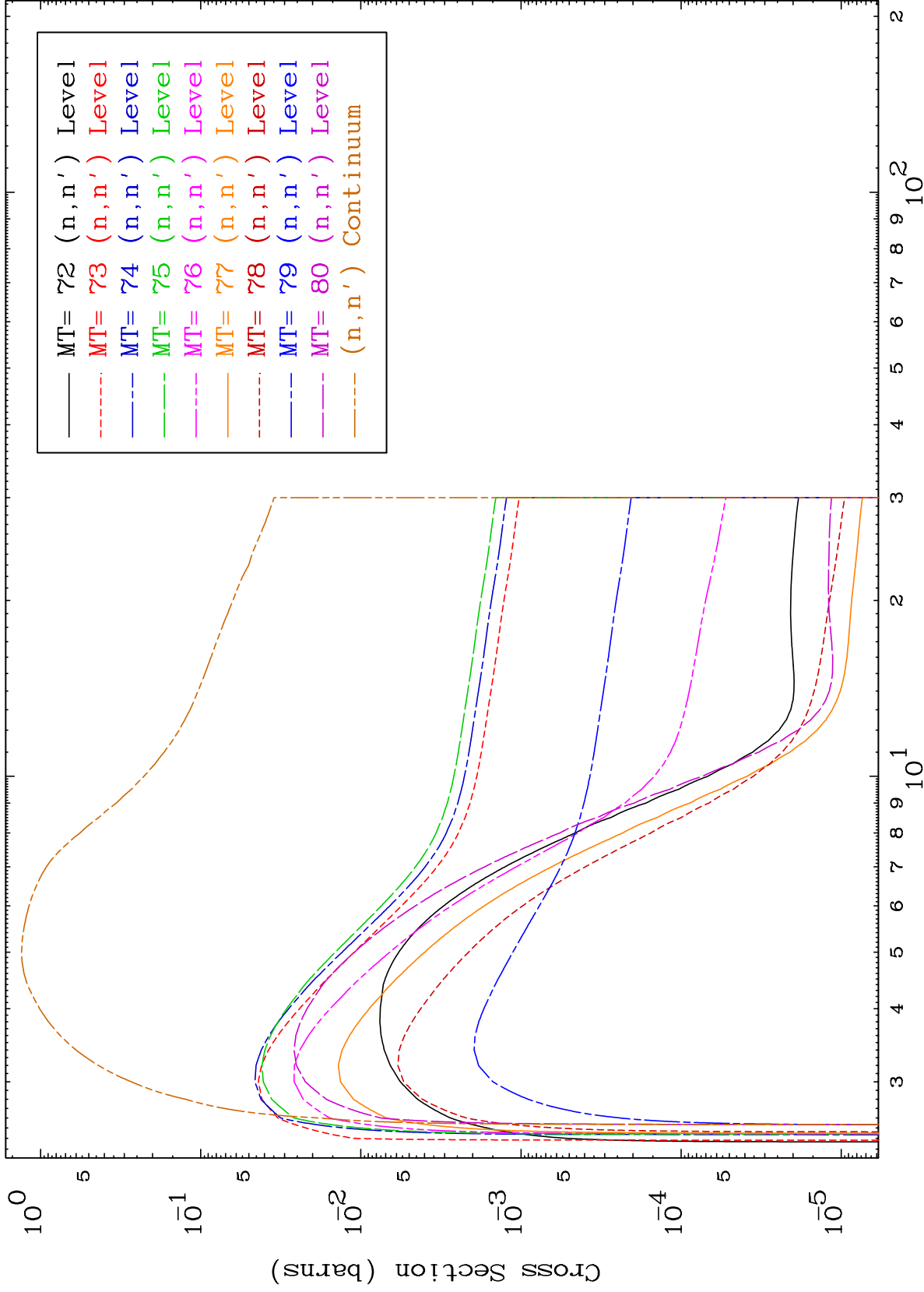
28-Ni-71

MAT 2864

(n,n') Level

28-Ni-71

293 Kelvin Cross Sections



8

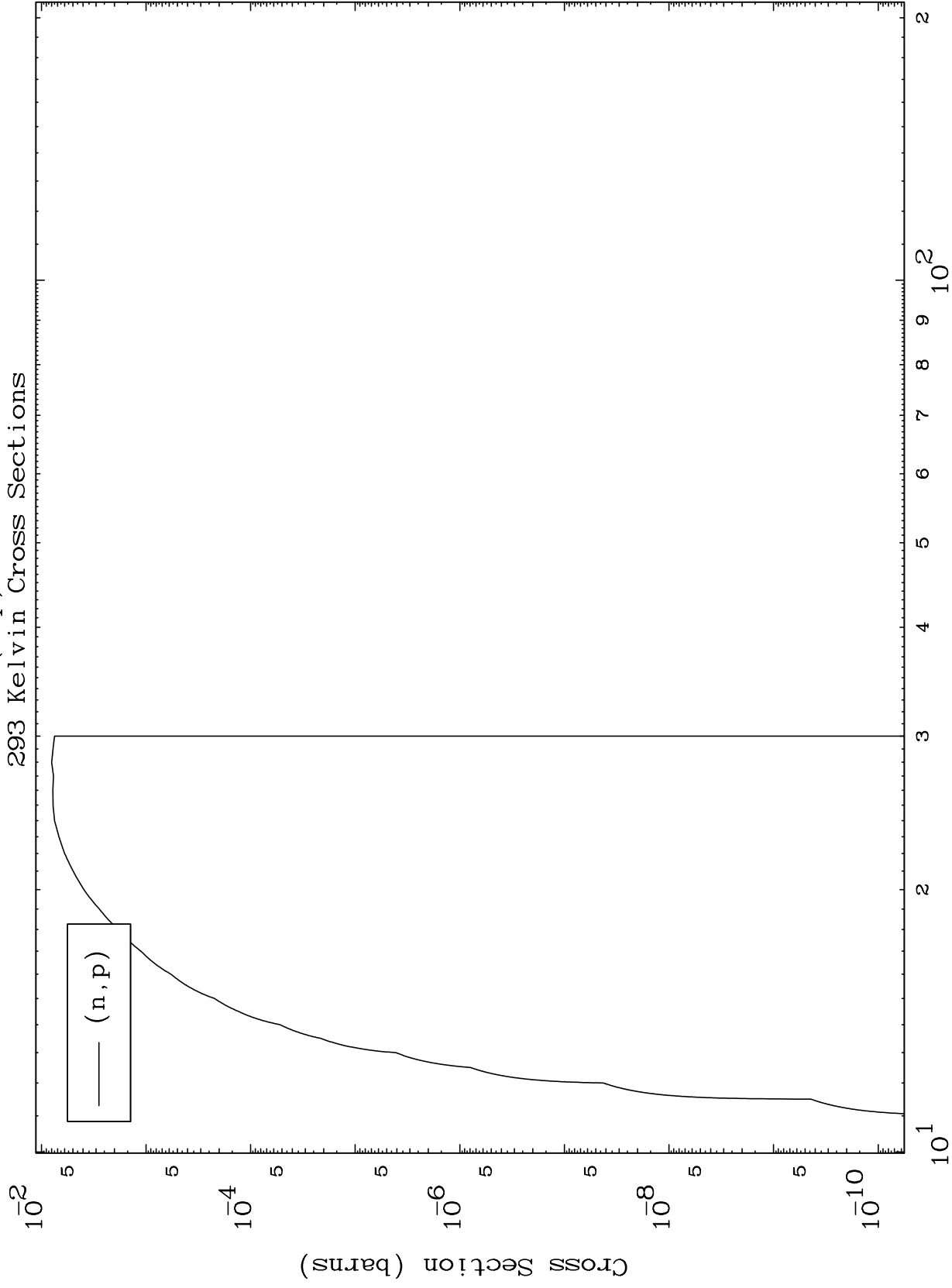
Incident Energy (MeV)

28-Ni-71

MAT 2864

(n,p) Levels
293 Kelvin Cross Sections

28-Ni-71



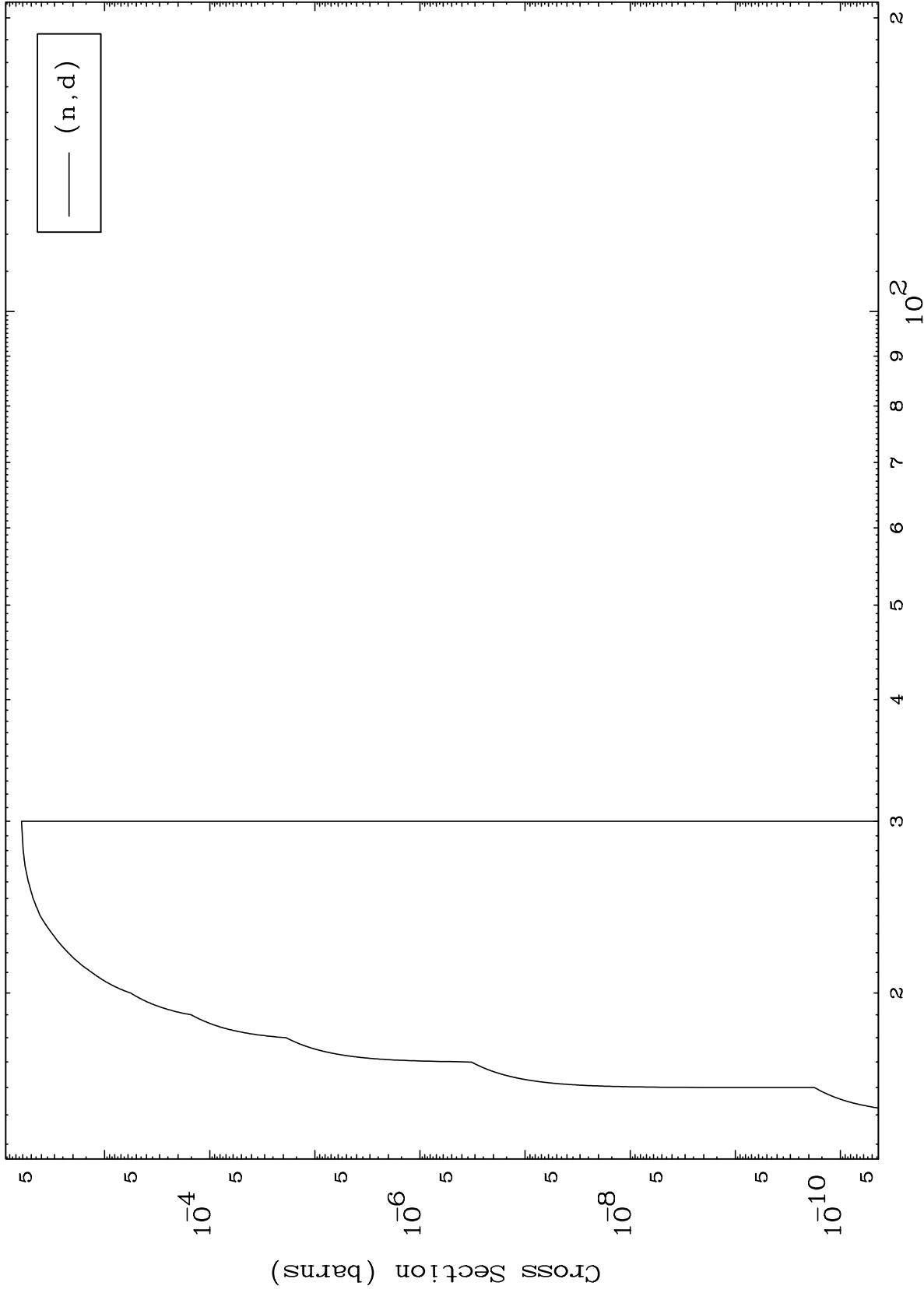
Incident Energy (MeV)

28-Ni-71

MAT 2864

(n,d) Levels
293 Kelvin Cross Sections

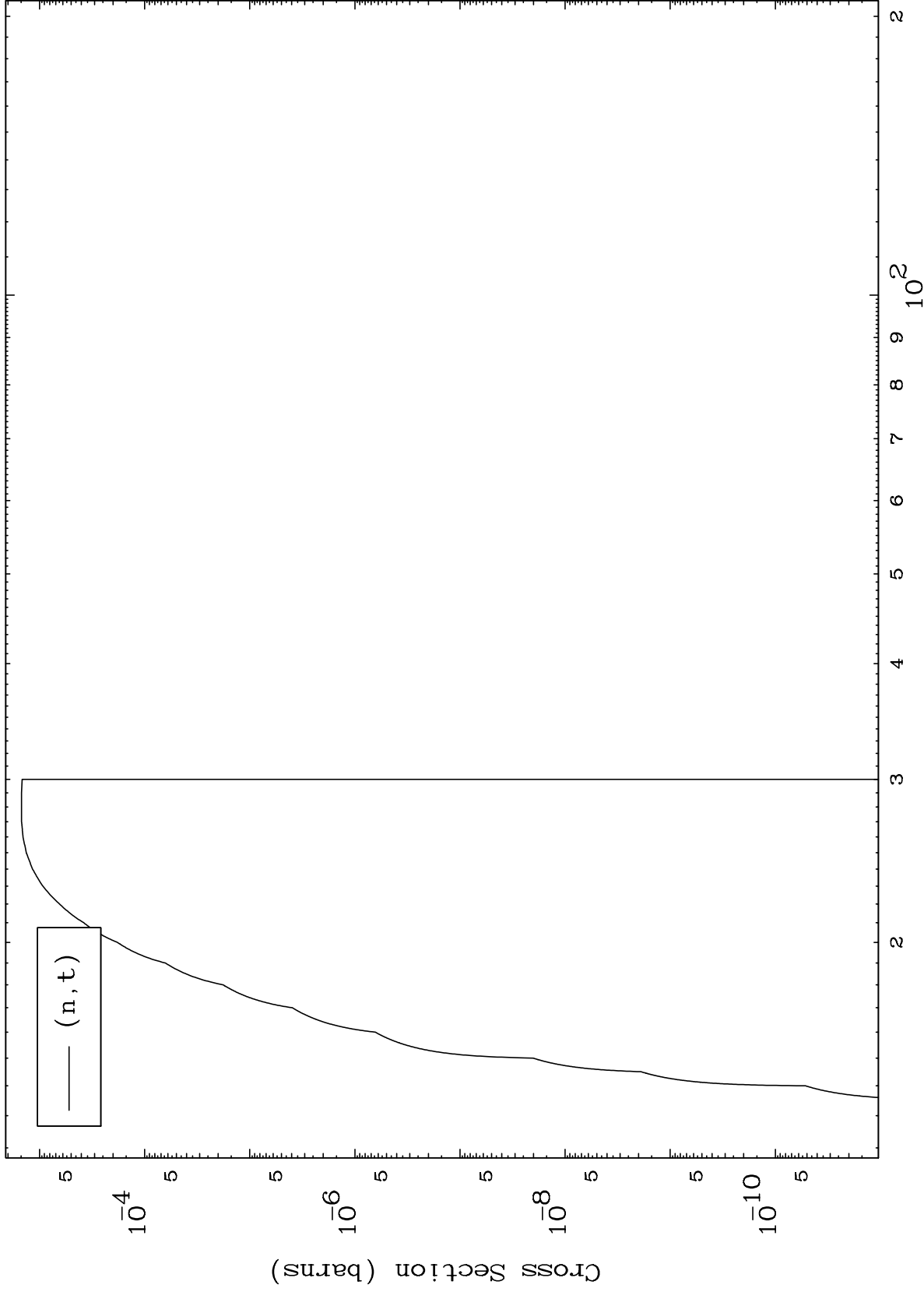
28-Ni-71



10

Incident Energy (MeV)

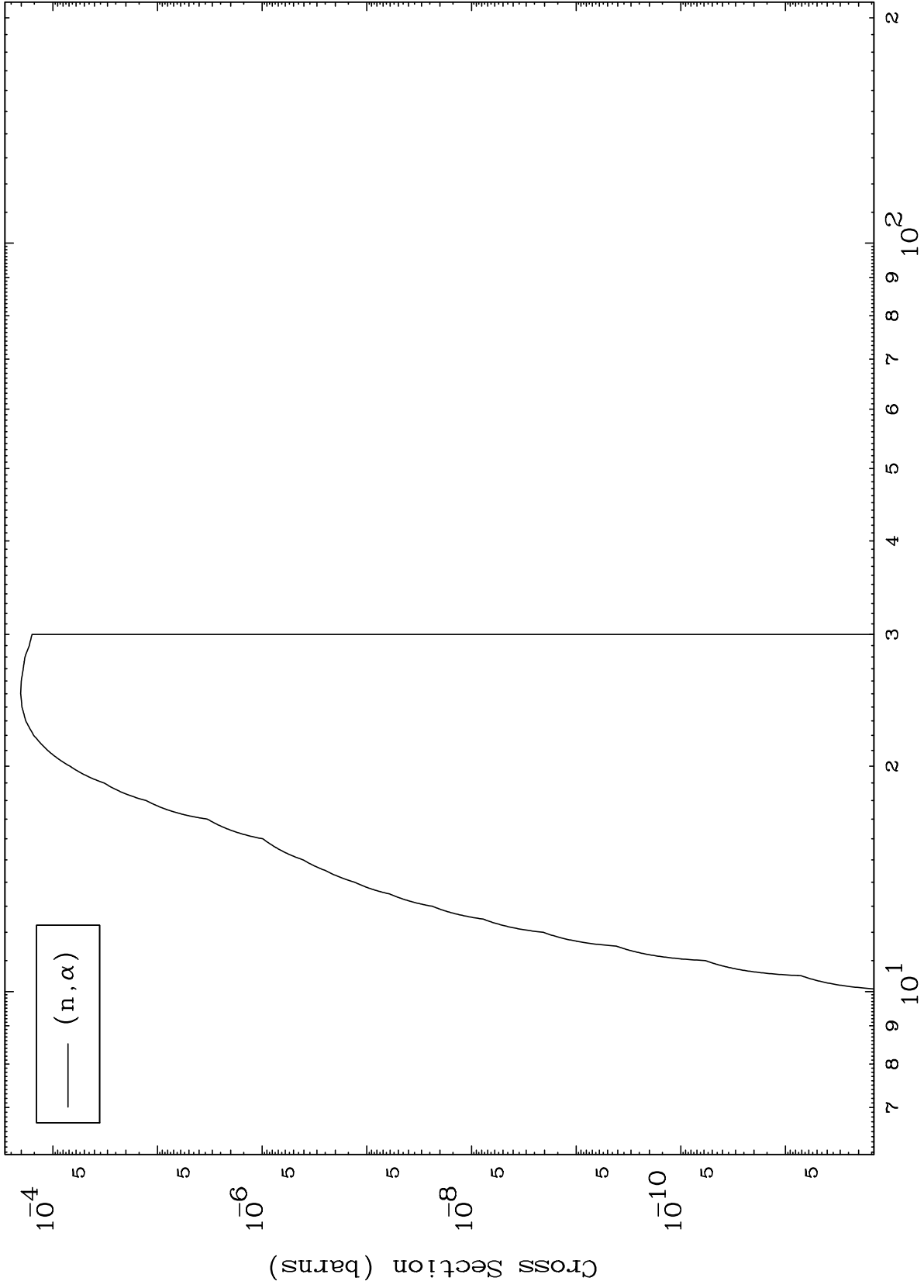
28-Ni-71



MAT 2864

(n, α) Levels
293 Kelvin Cross Sections

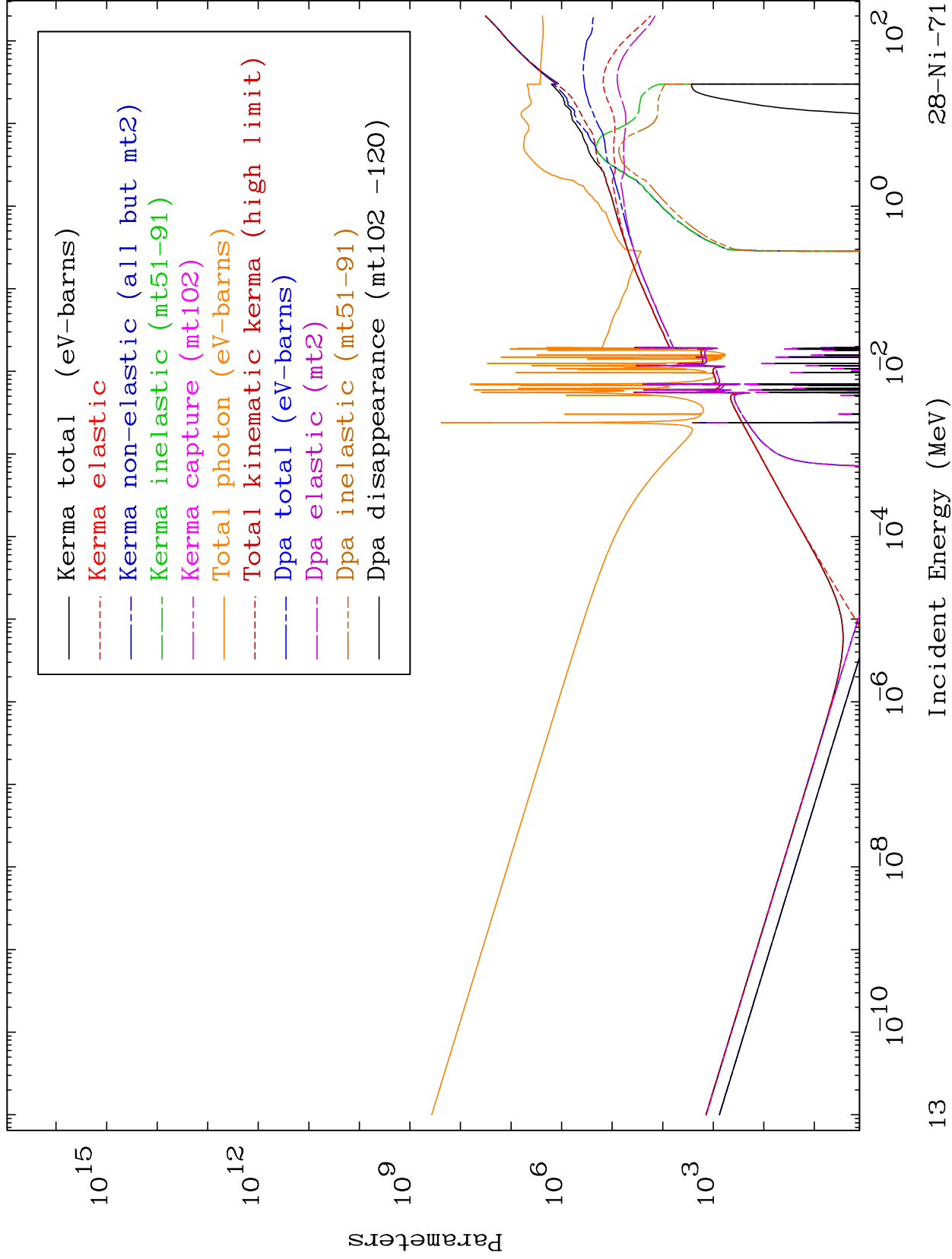
28-Ni-71



12

Incident Energy (MeV)

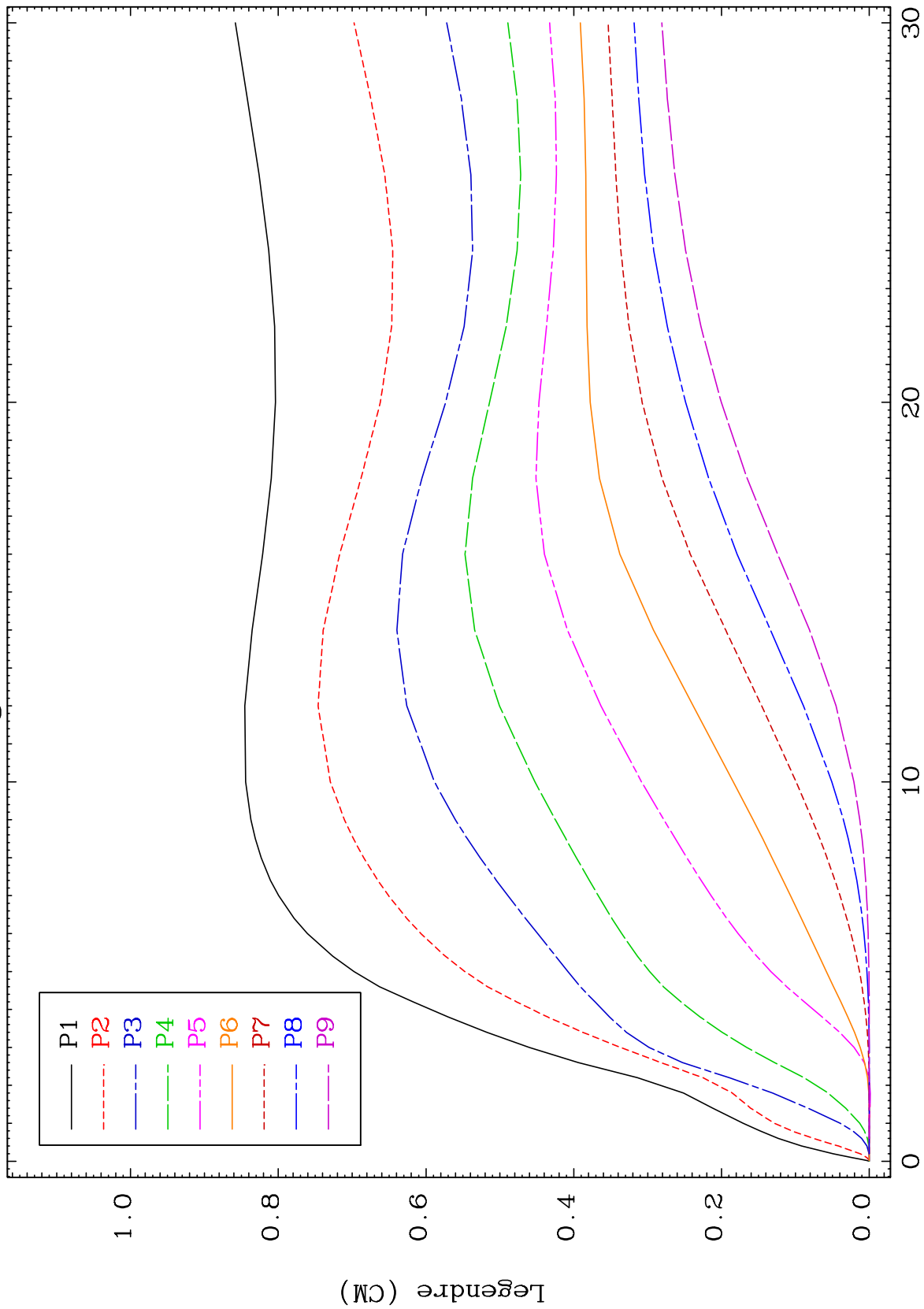
28-Ni-71



MAT 2864

Elastic Legendre Coefficients

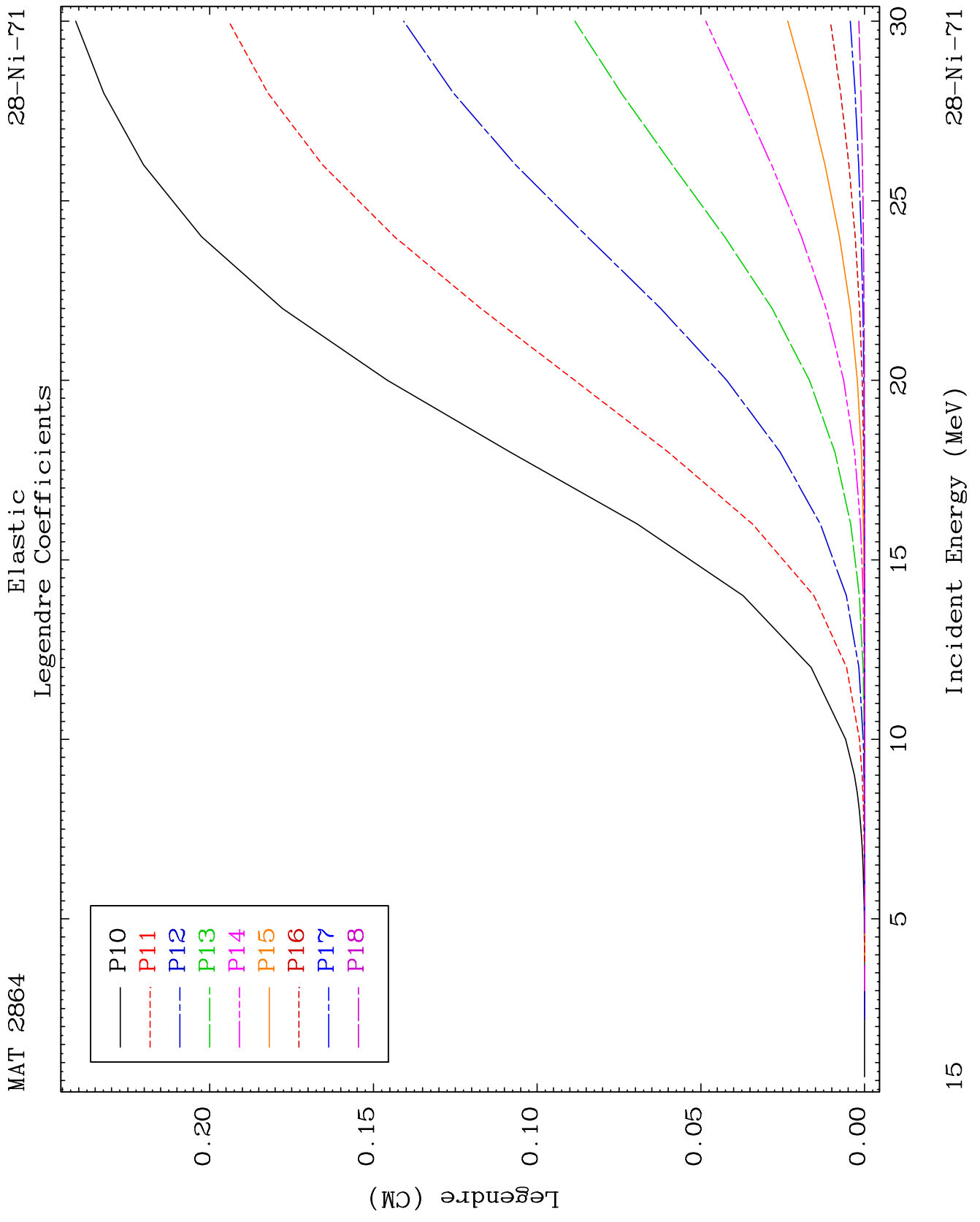
$^{28}\text{Ni-71}$



14

Incident Energy (MeV)

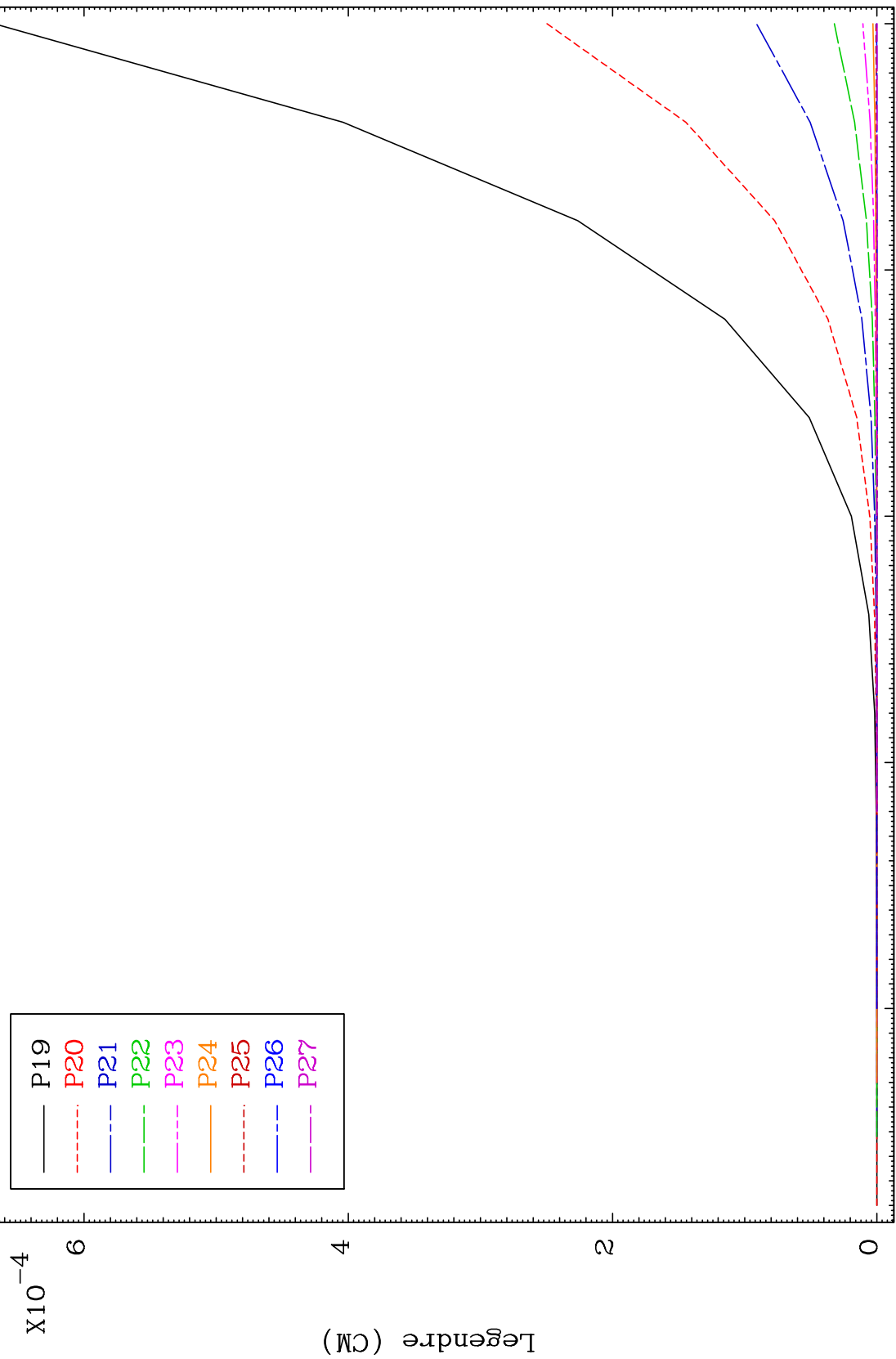
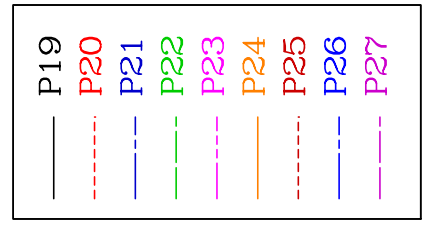
$^{28}\text{Ni-71}$



MAT 2864

Elastic Legendre Coefficients

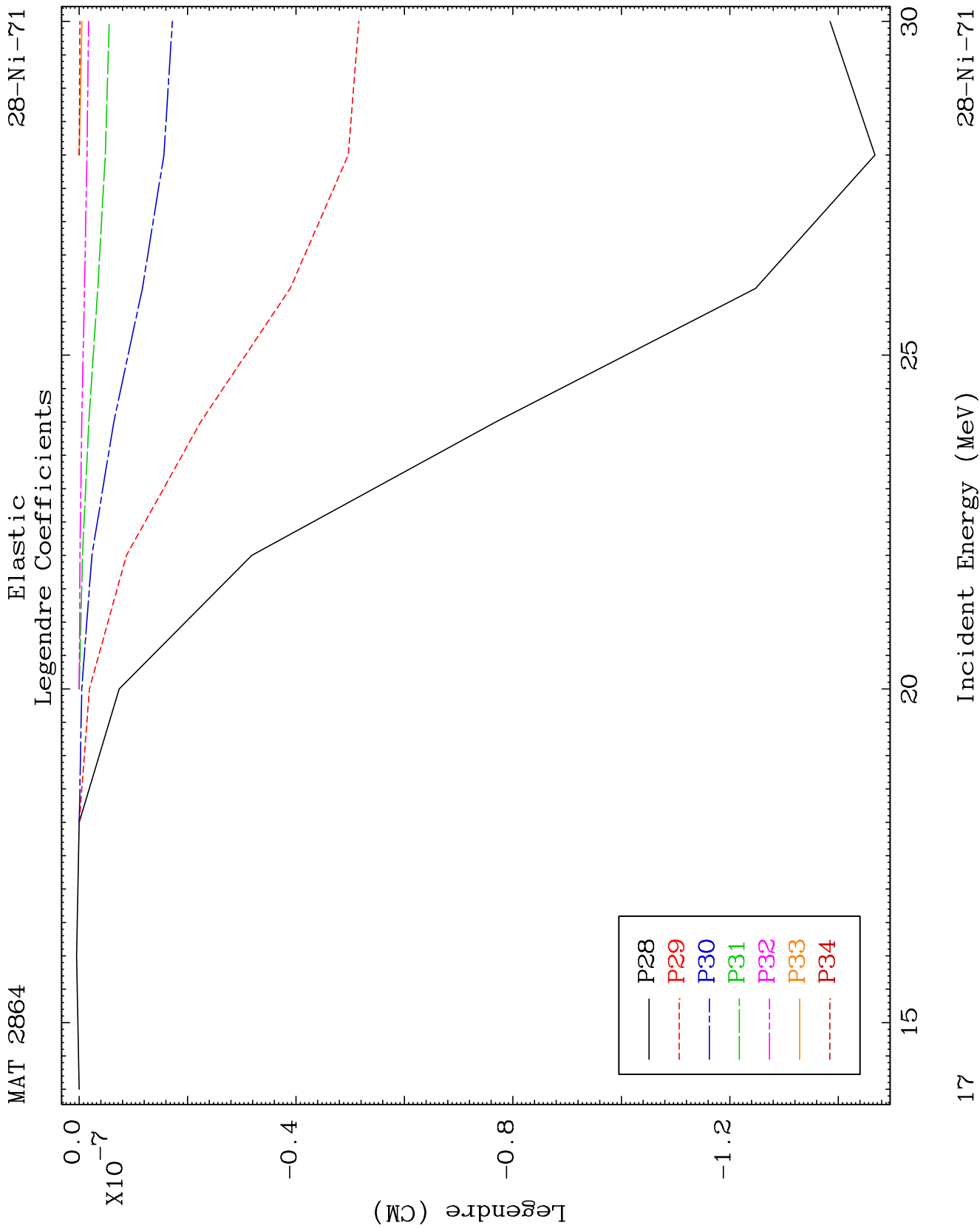
28-Ni-71



16

Incident Energy (MeV)

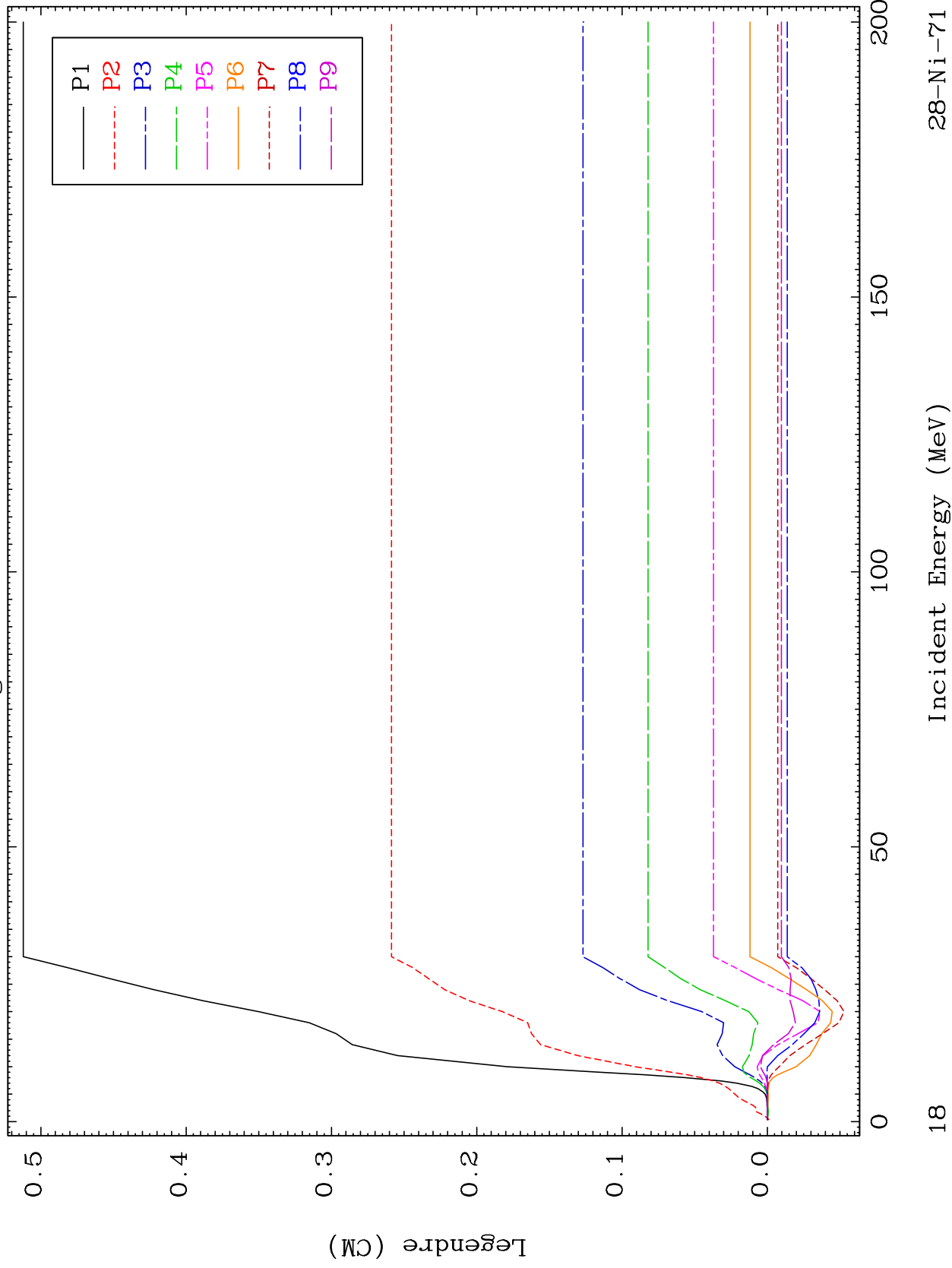
28-Ni-71



MAT 2864

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

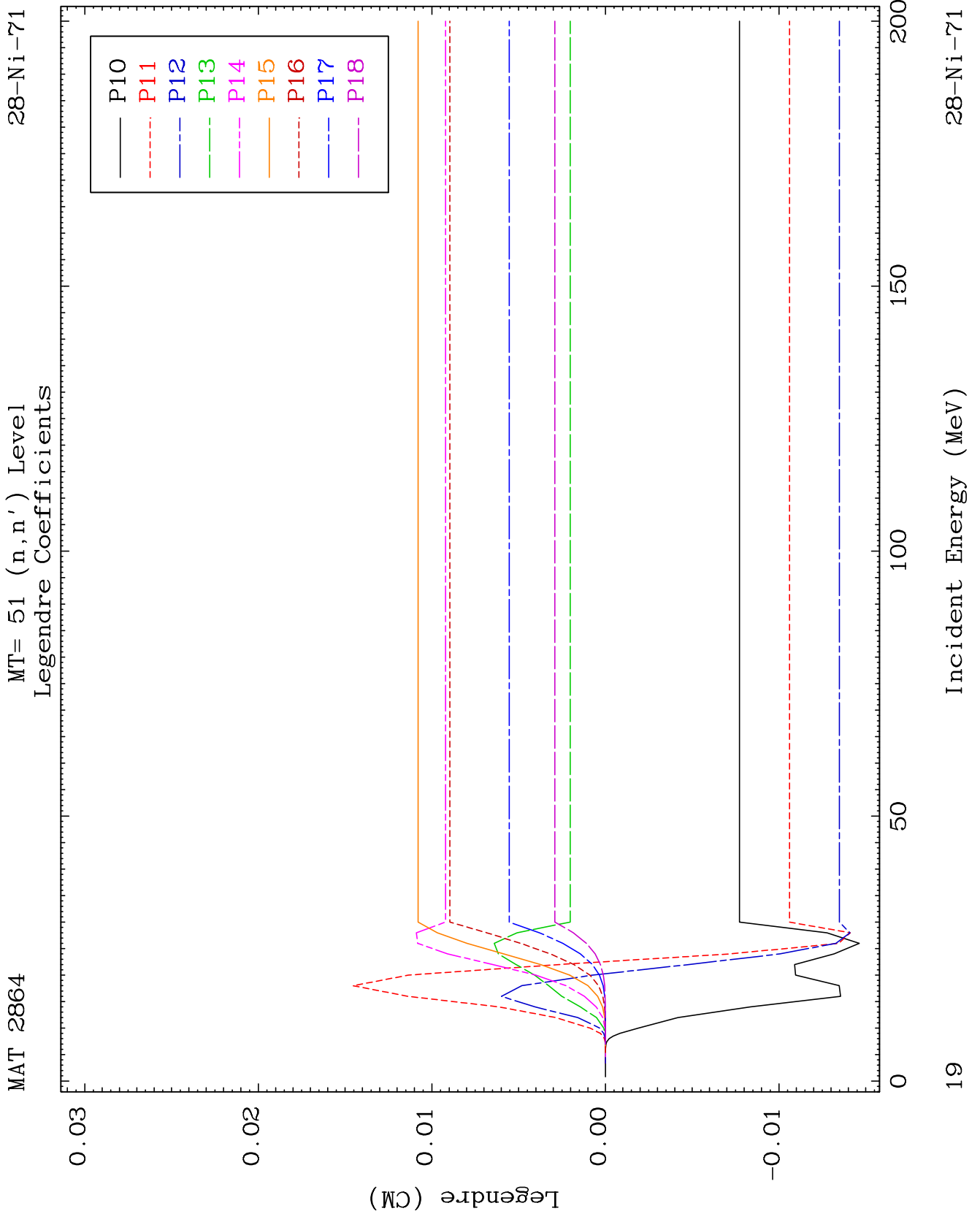
28-Ni-71



18

Incident Energy (MeV)

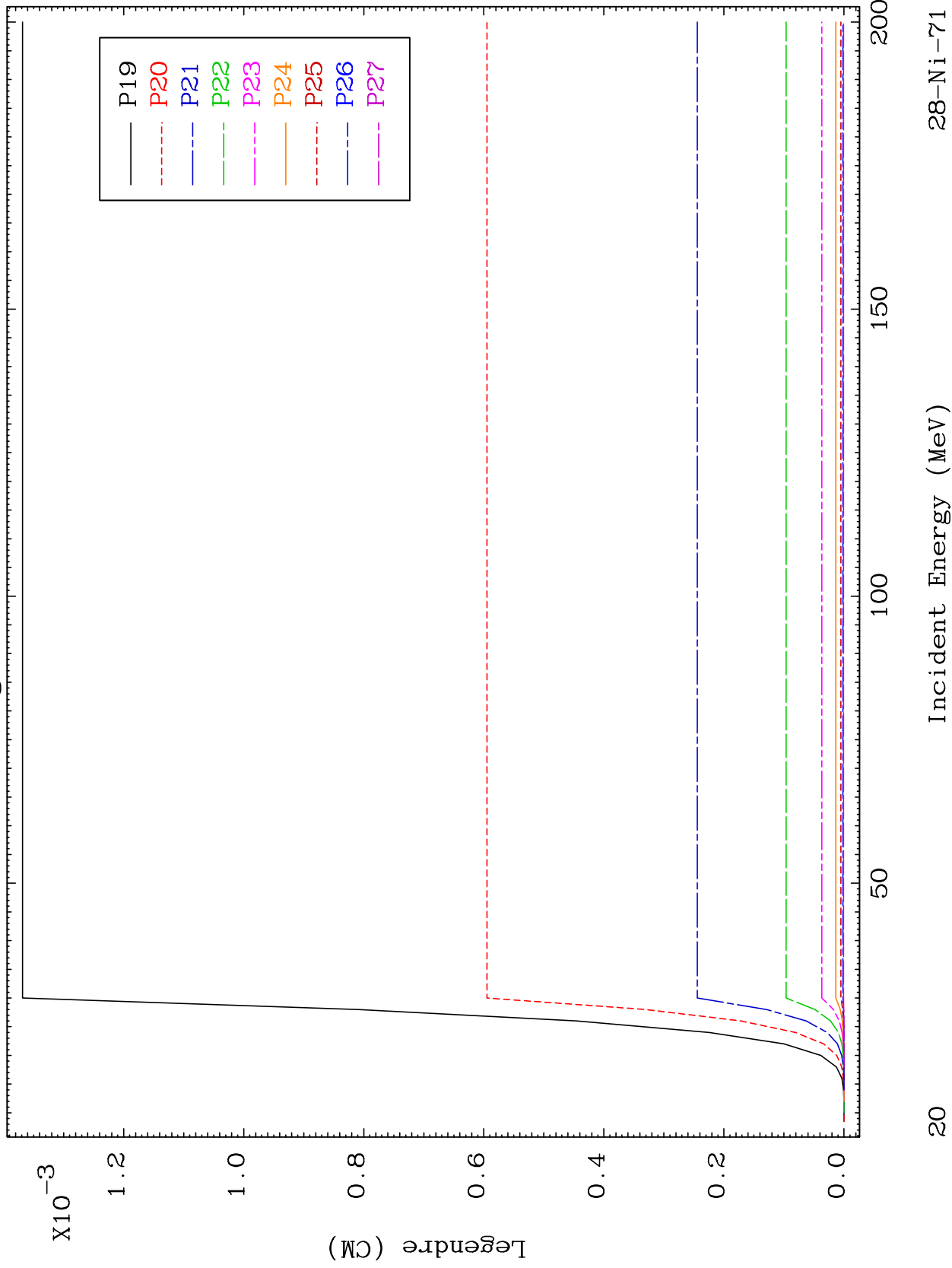
28-Ni-71



MAT 2864

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

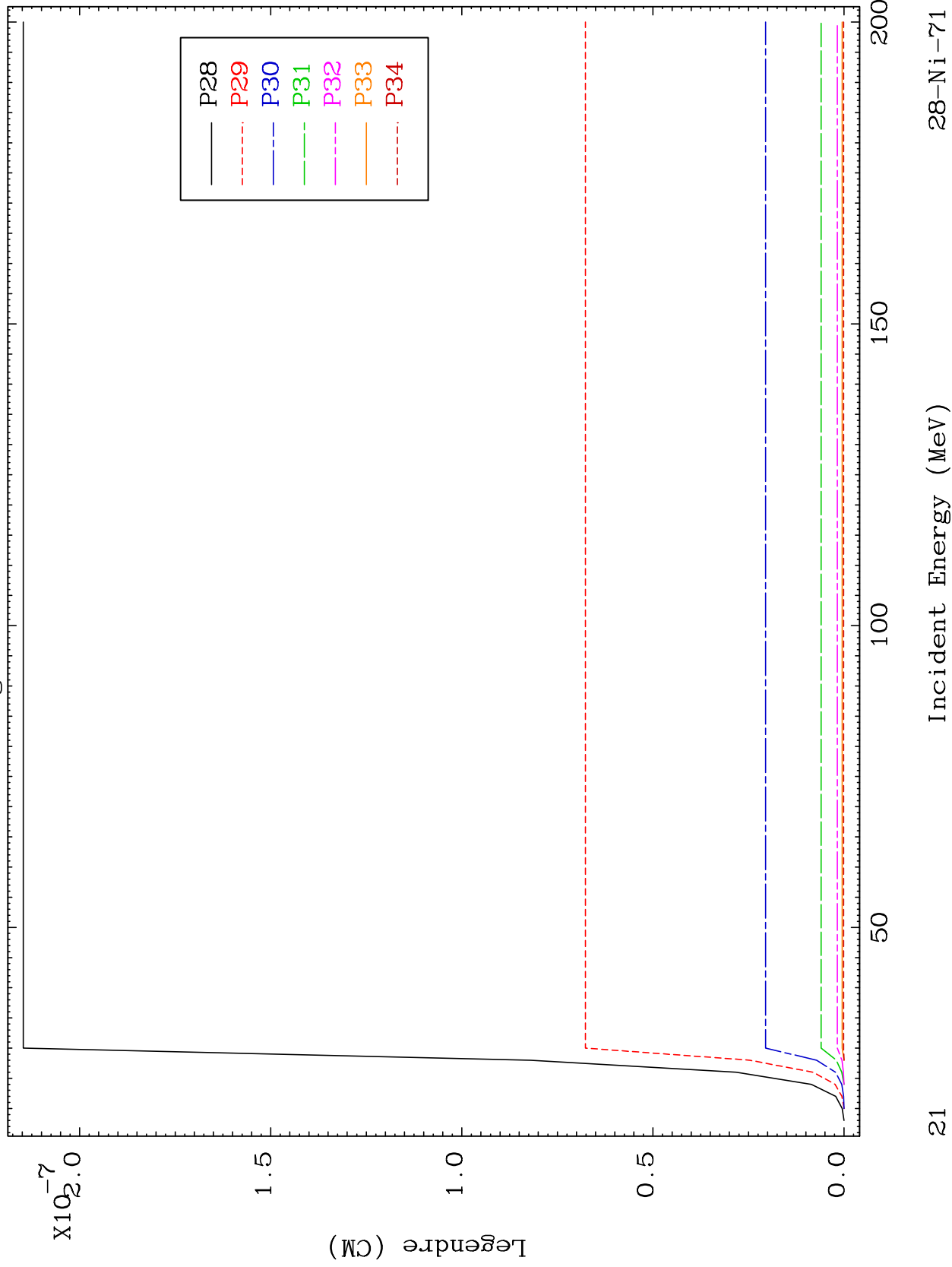
28-Ni-71



MAT 2864

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

28-Ni-71

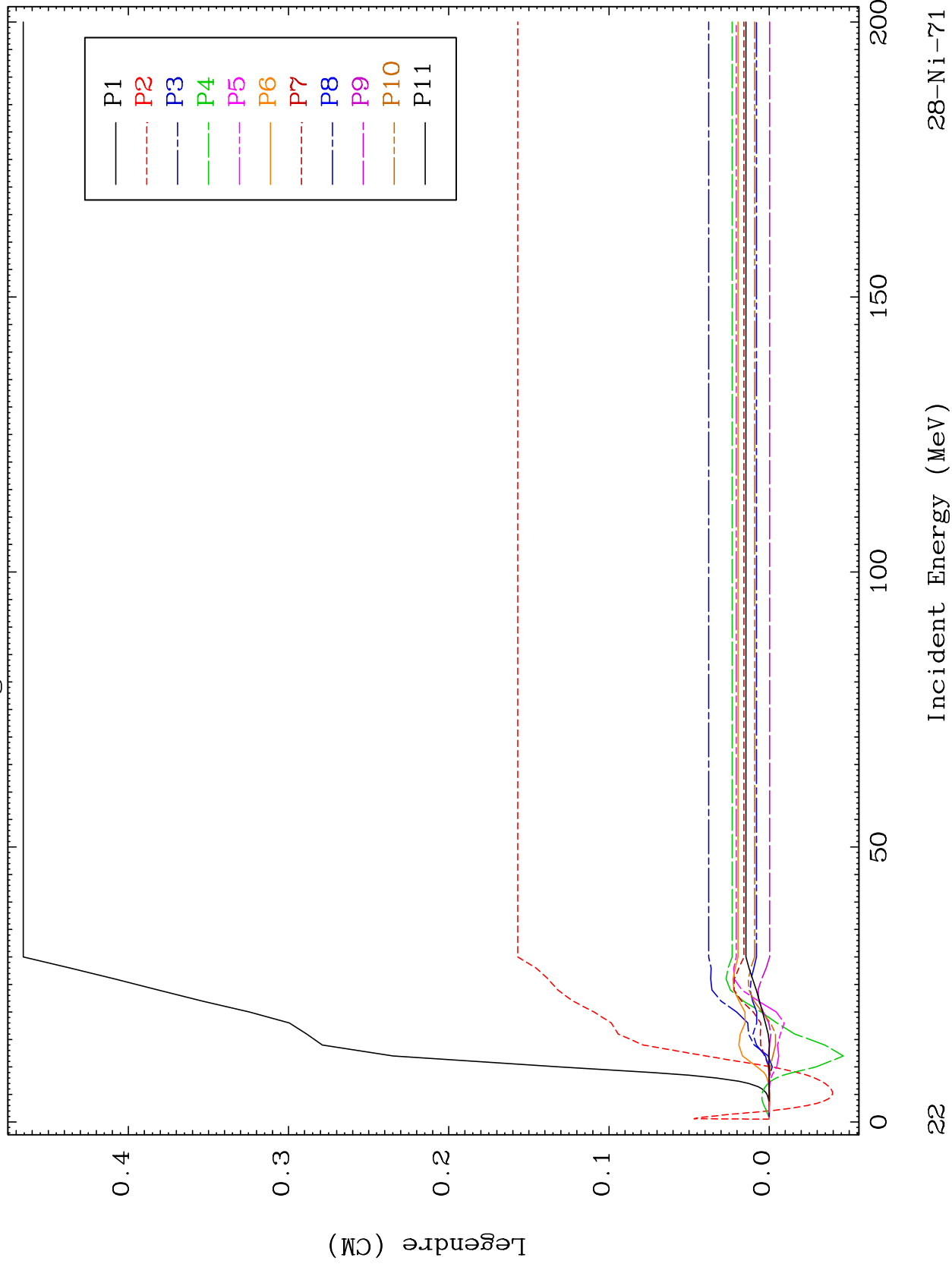


21

MAT 2864

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

28-Ni-71



28-Ni-71

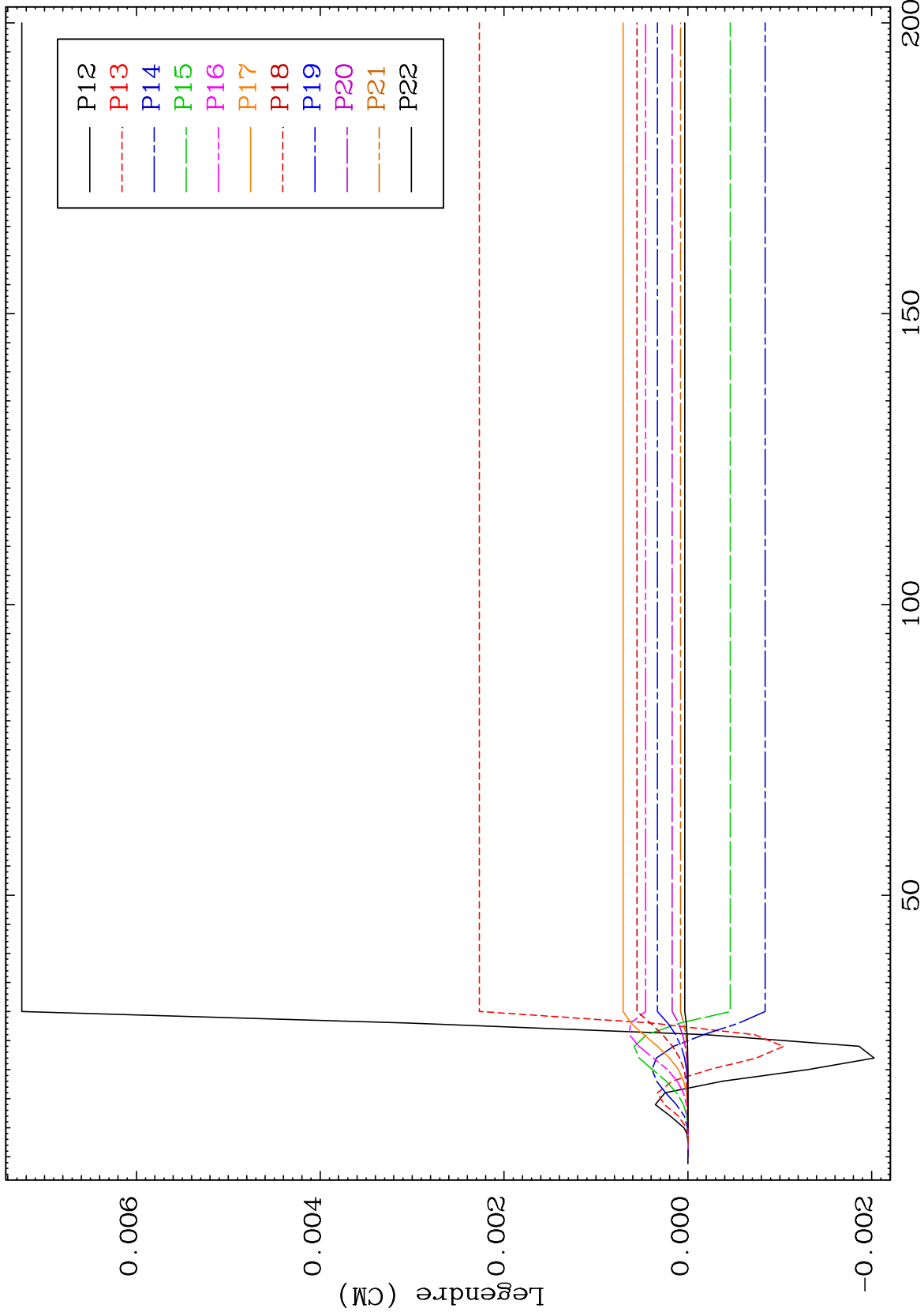
Incident Energy (MeV)

22

MAT 2864

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

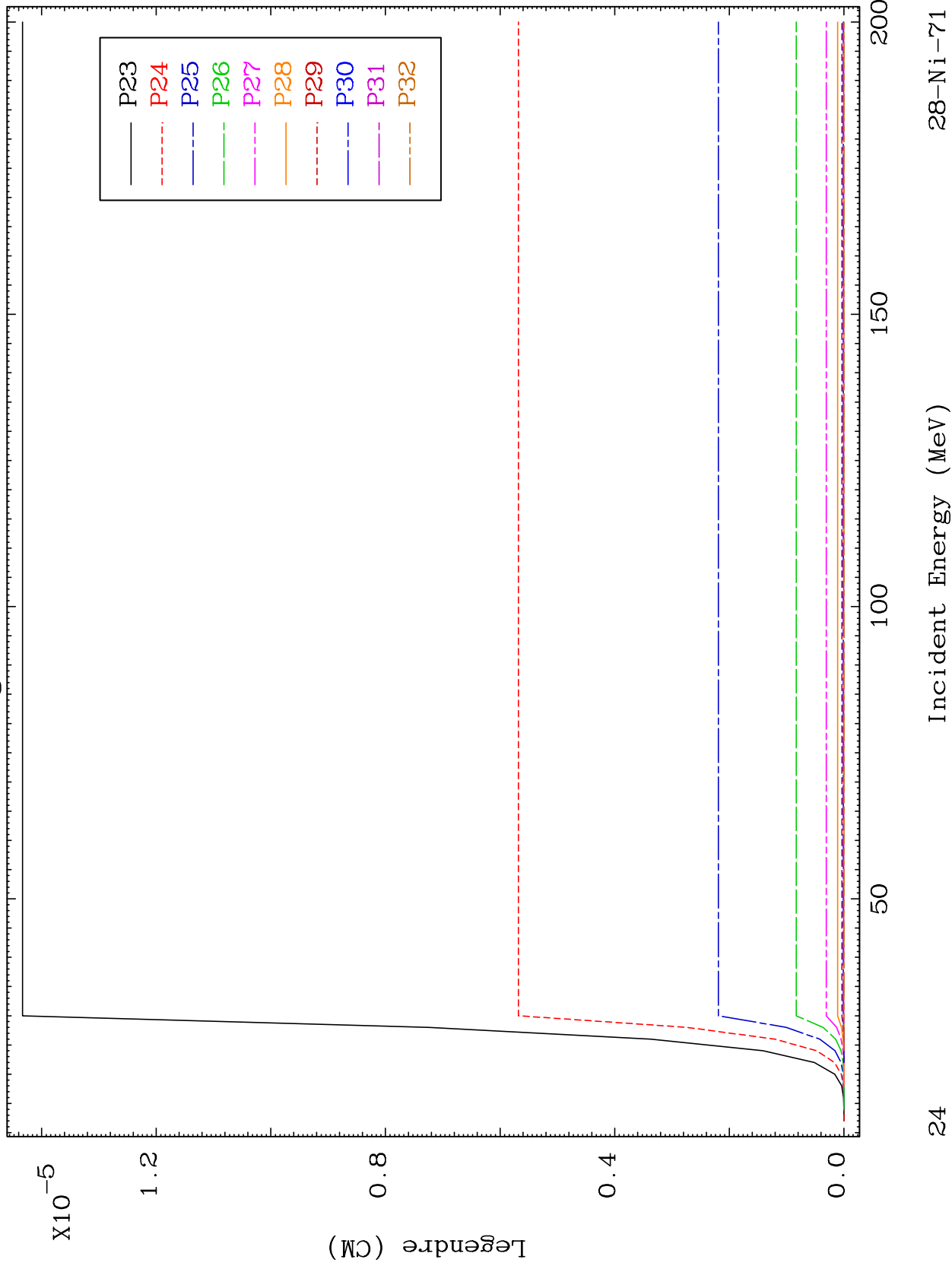
28-Ni-71



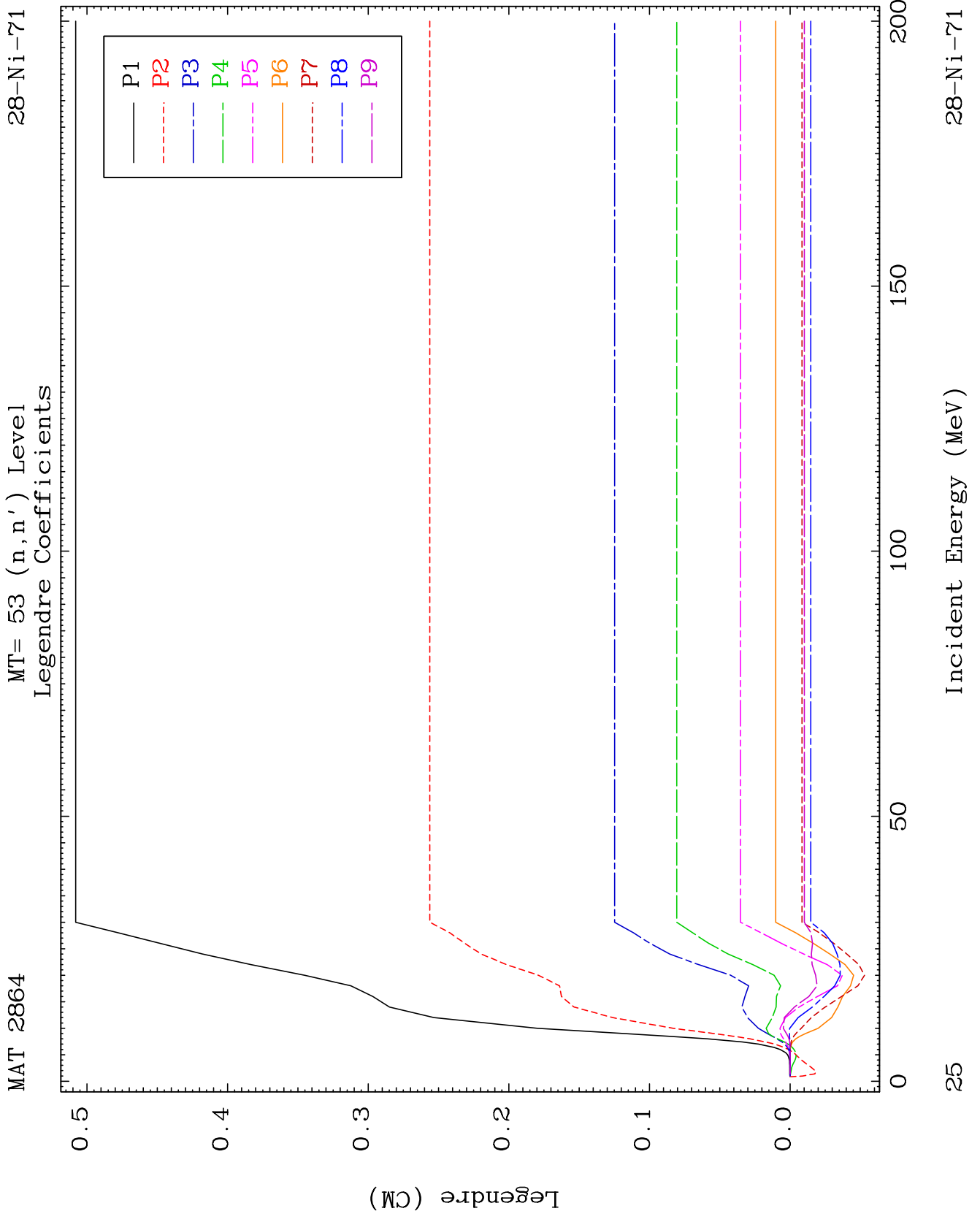
MAT 2864

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

28-Ni-71



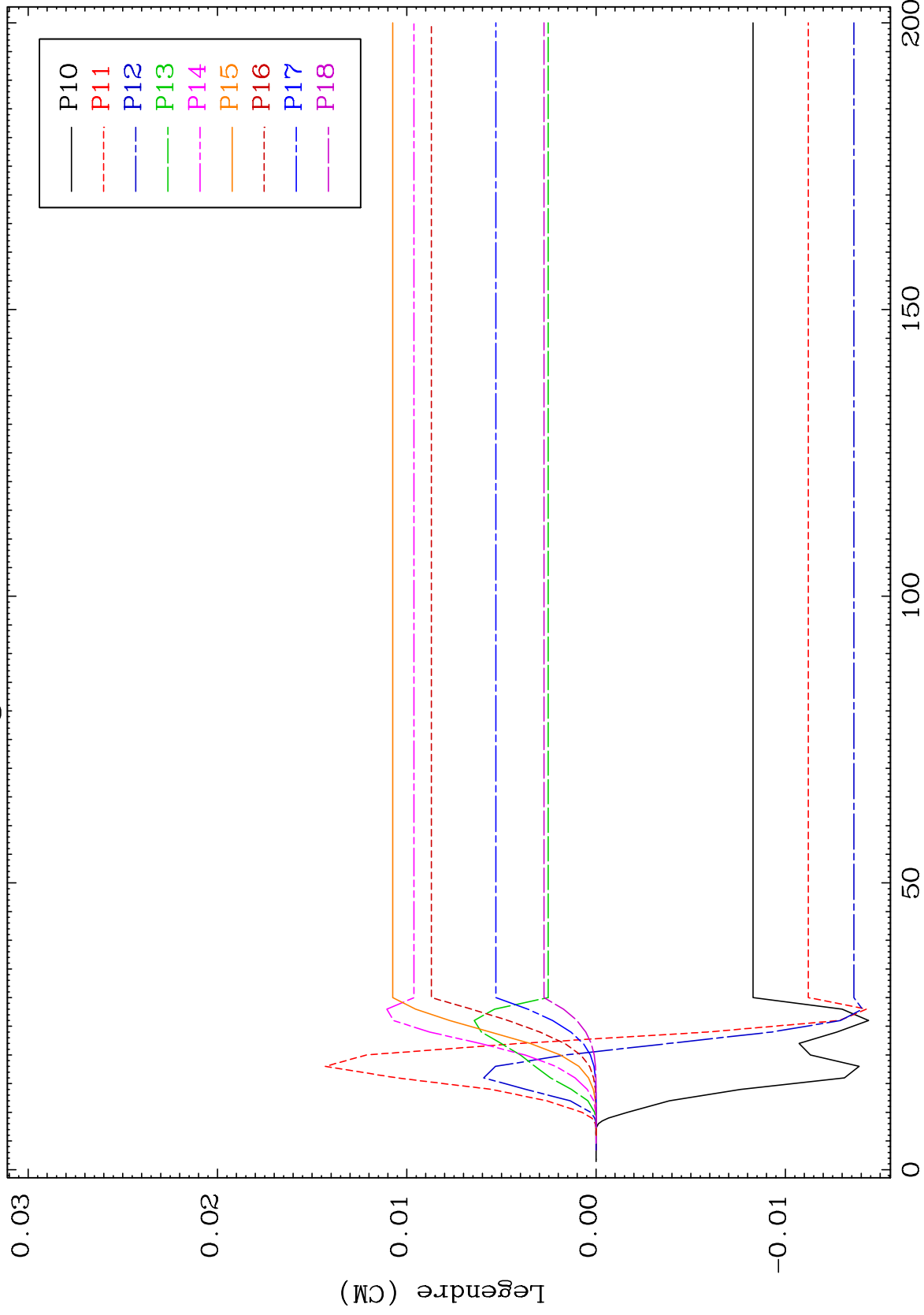
24



MAT 2864

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

28-Ni-71



26

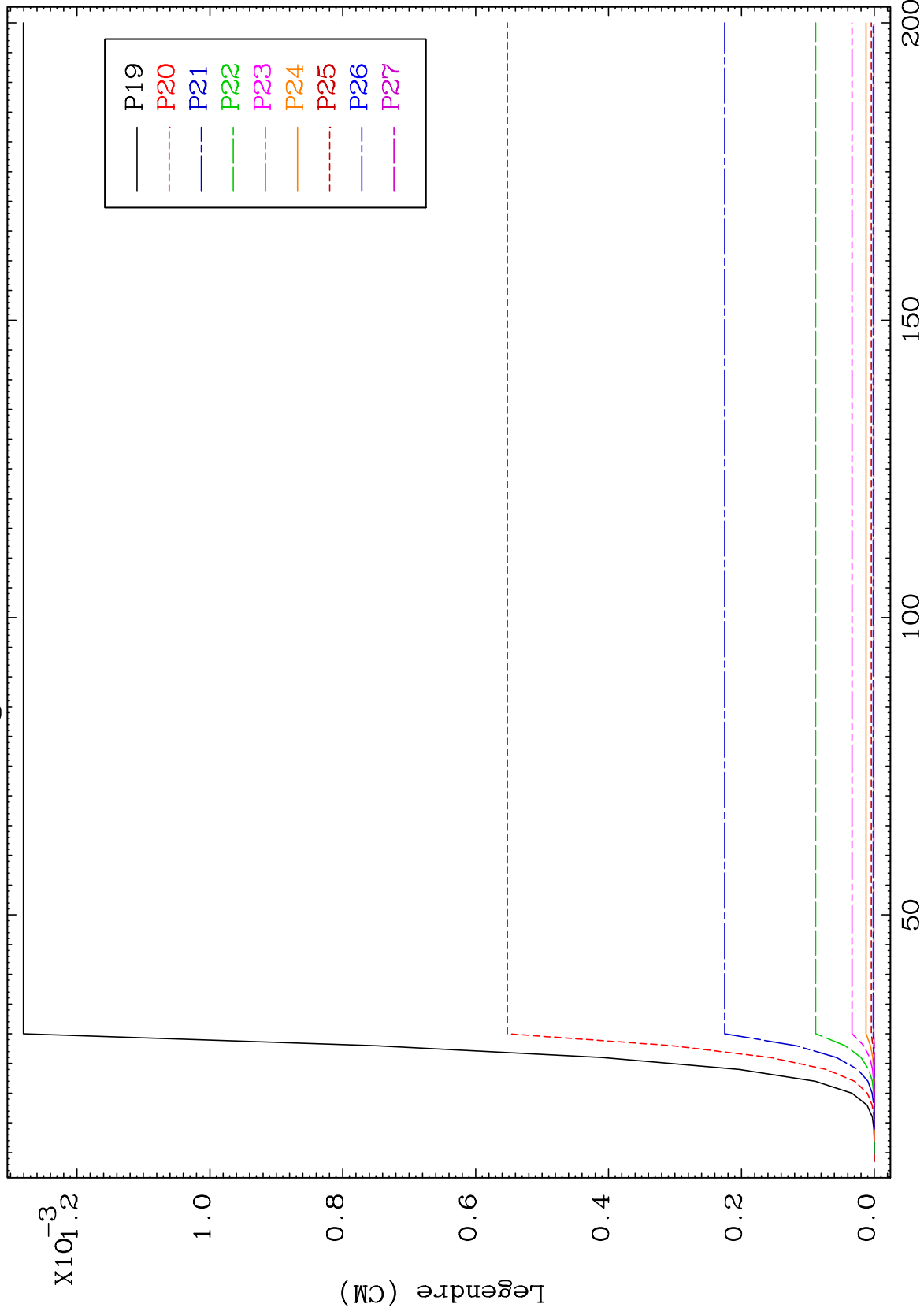
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



27

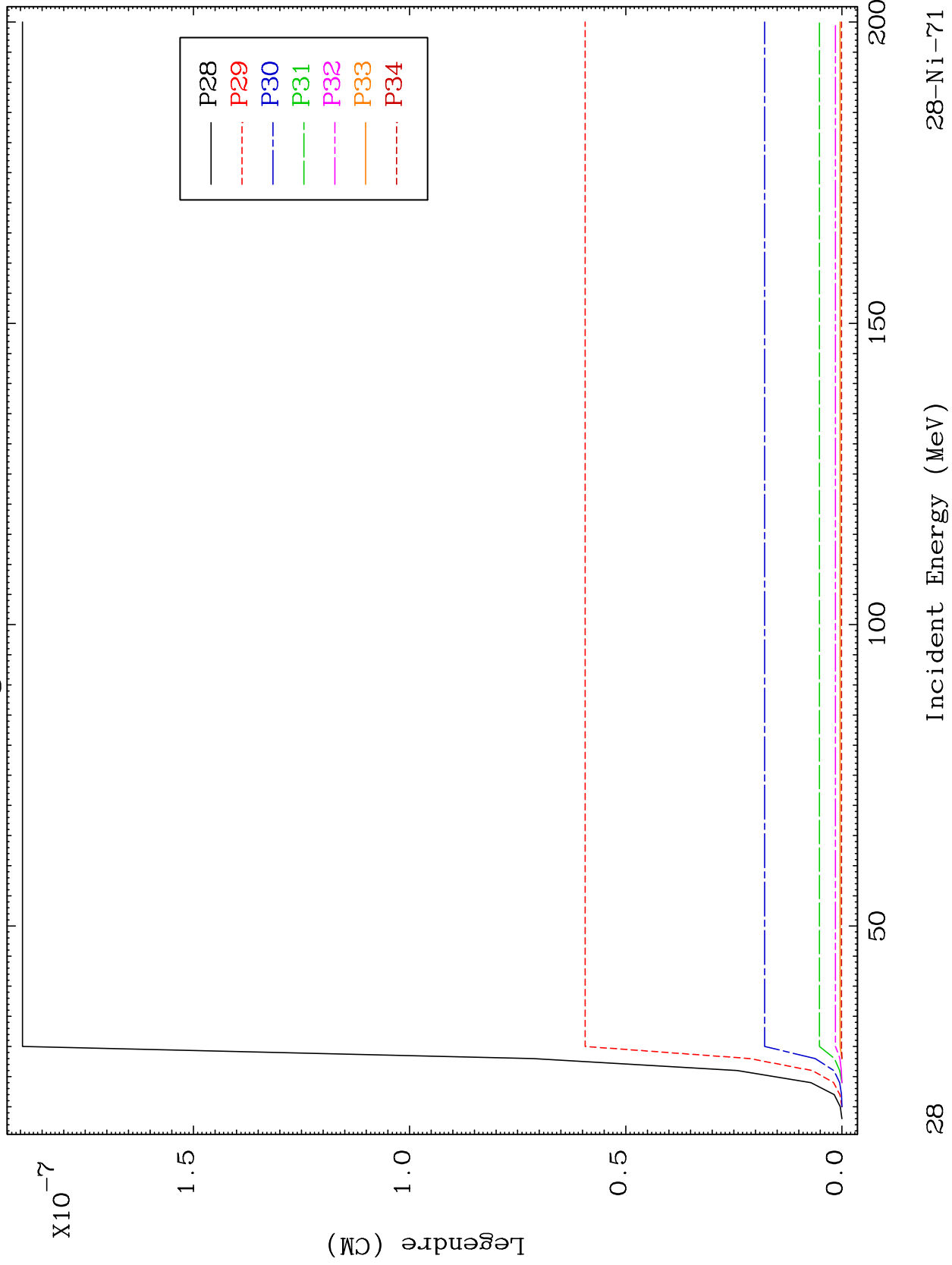
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



28

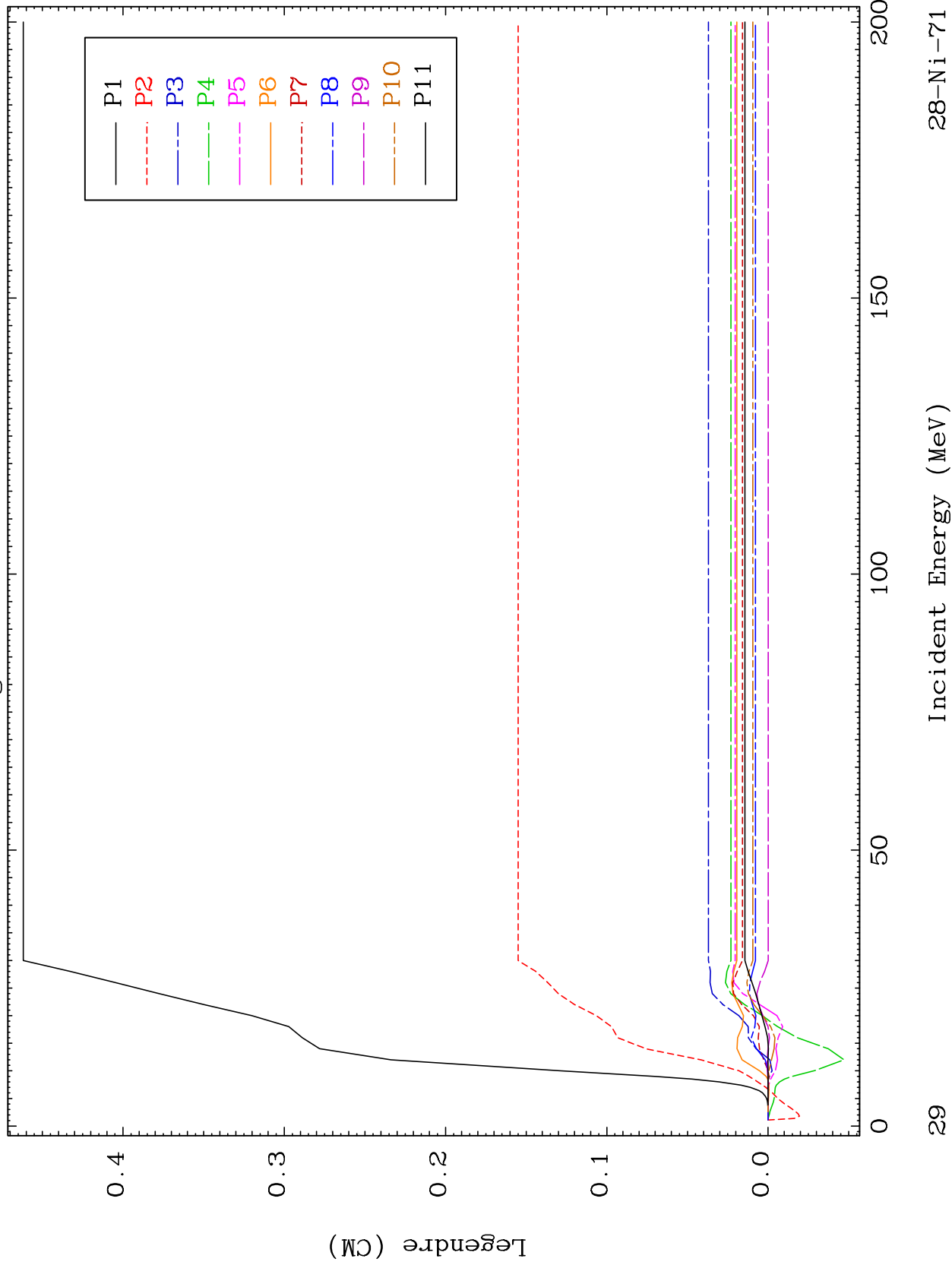
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

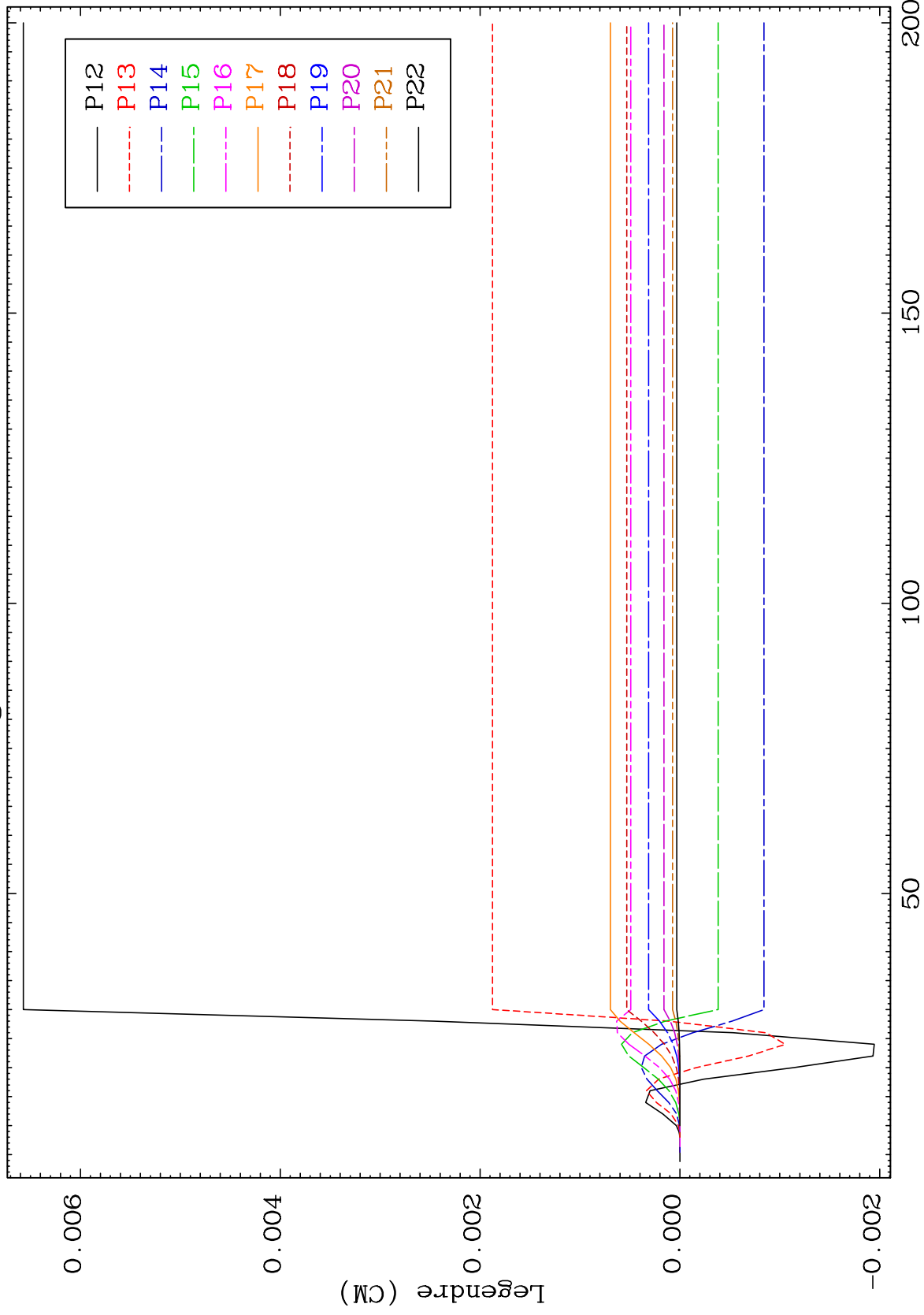
28-Ni-71



MAT 2864

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

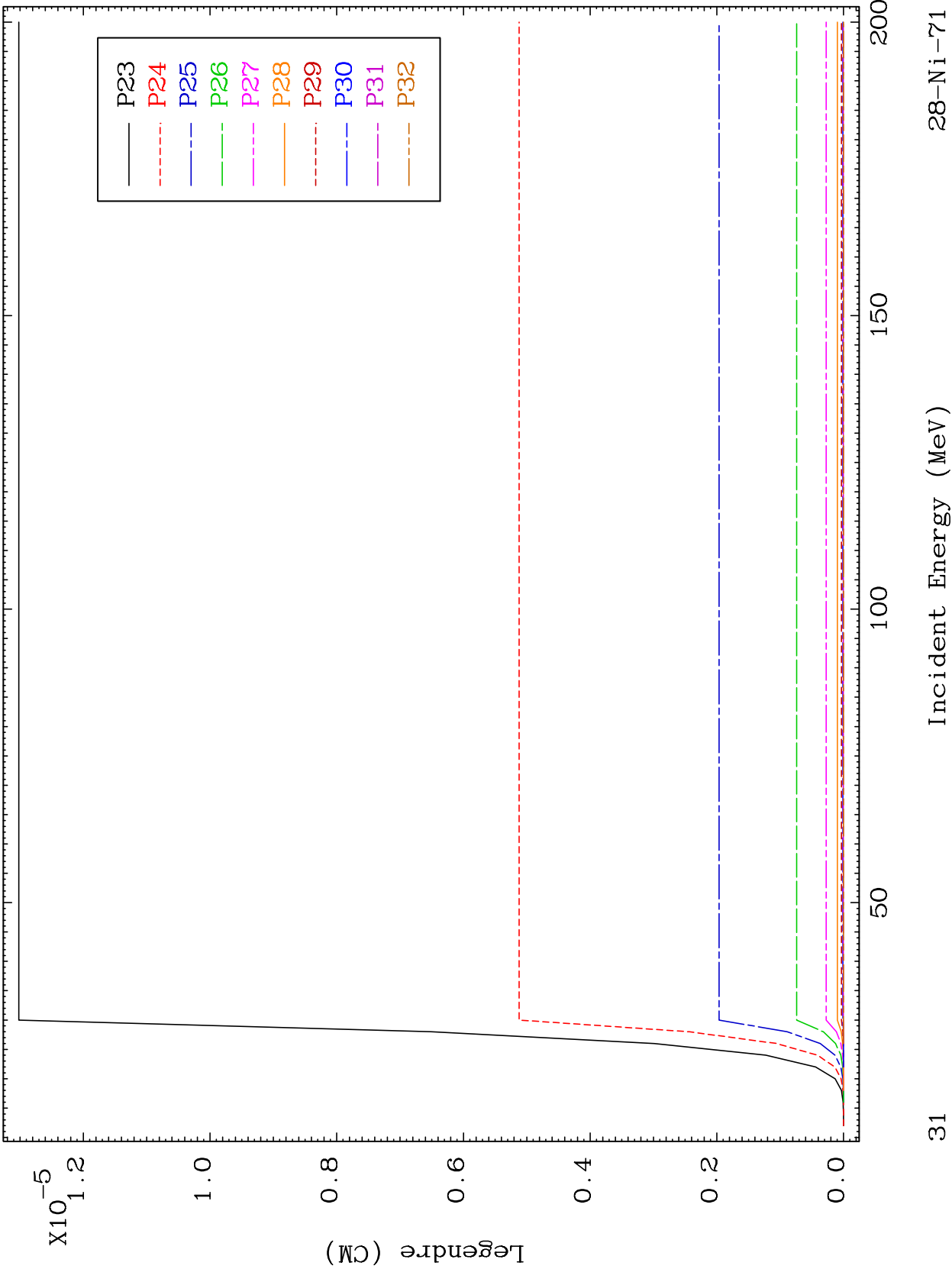
28-Ni-71



30

Incident Energy (MeV)

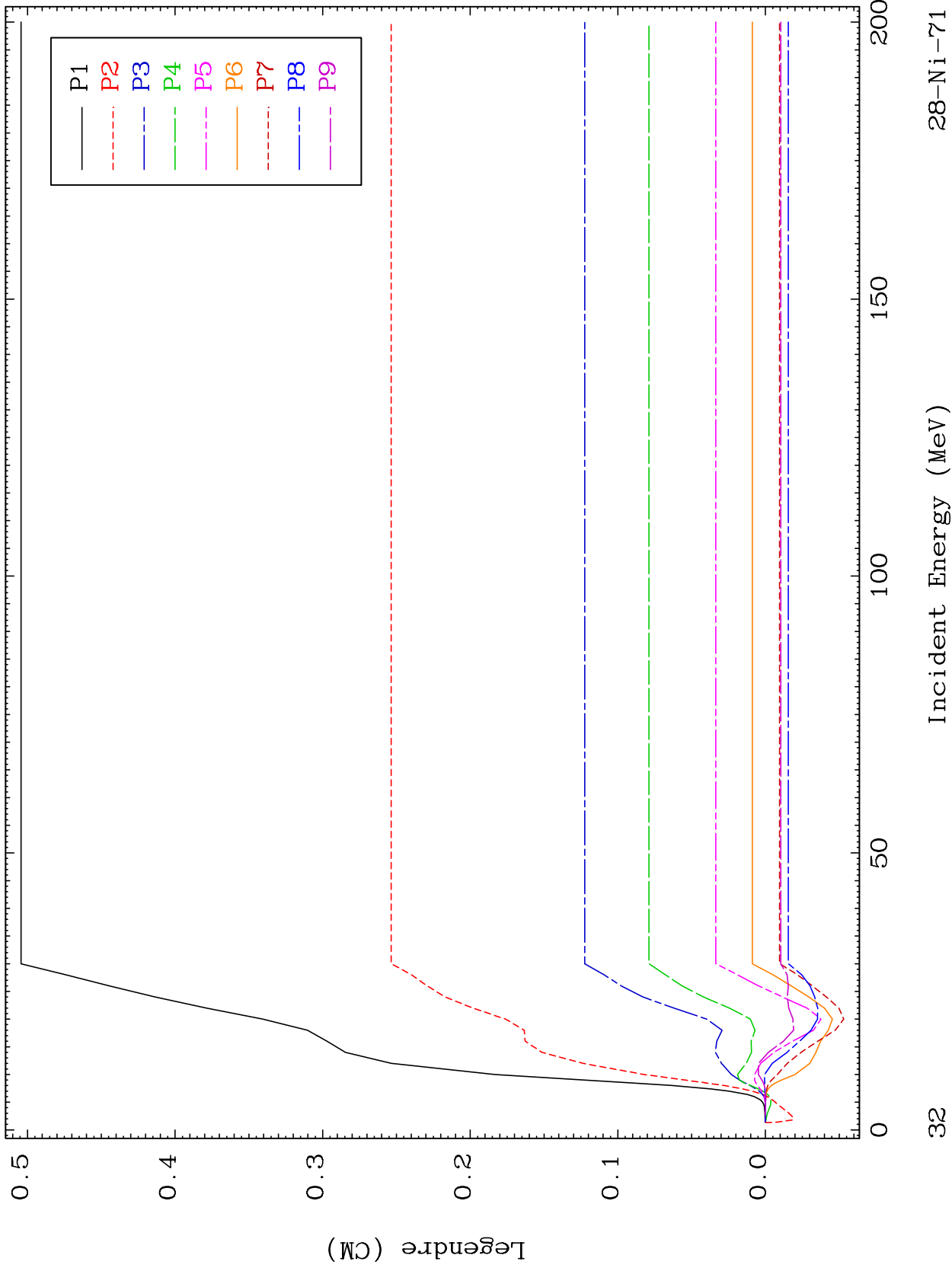
28-Ni-71



MAT 2864

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

28-Ni-71



28-Ni-71

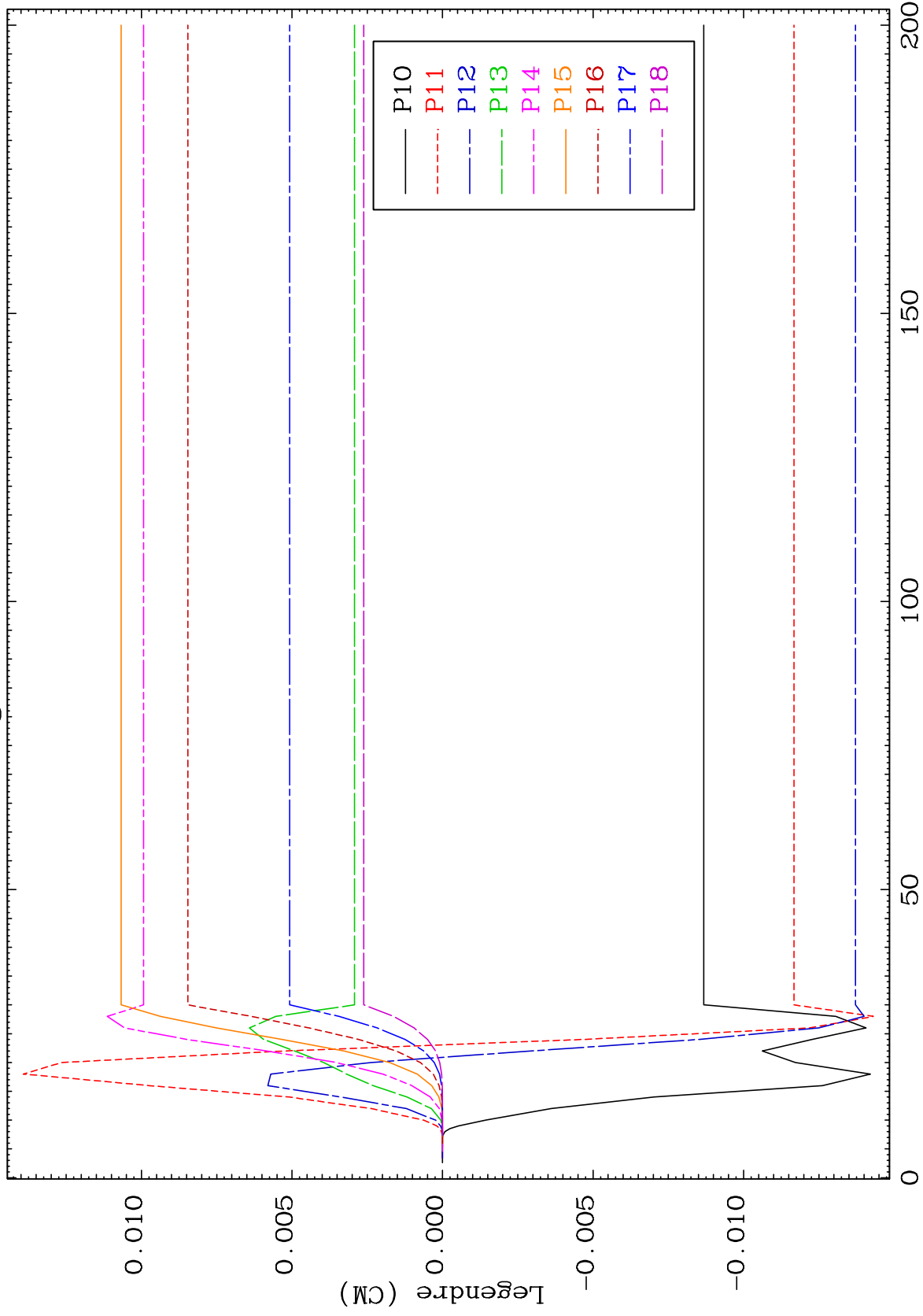
Incident Energy (MeV)

32

MAT 2864

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

28-Ni-71



33

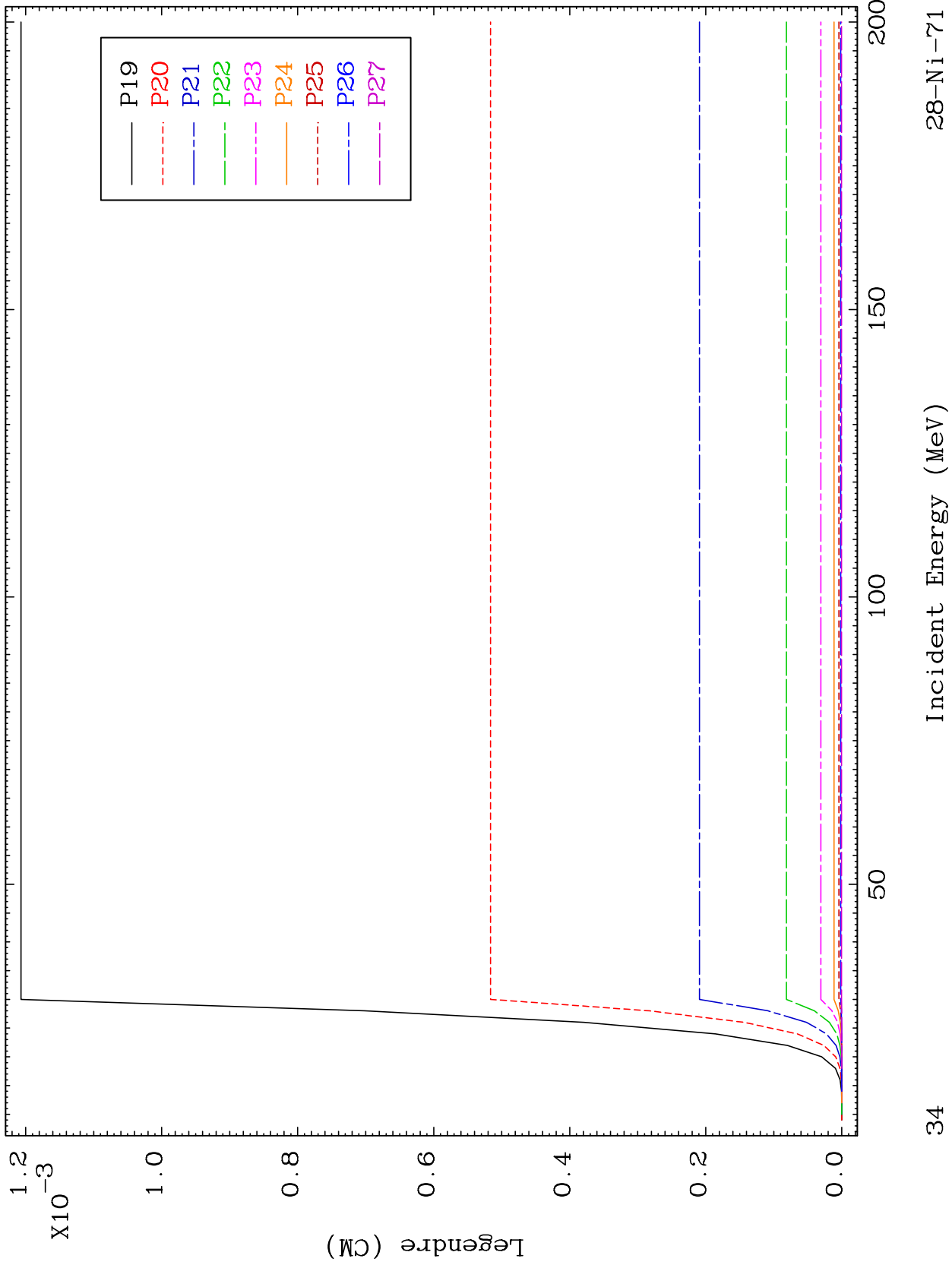
Incident Energy (MeV)

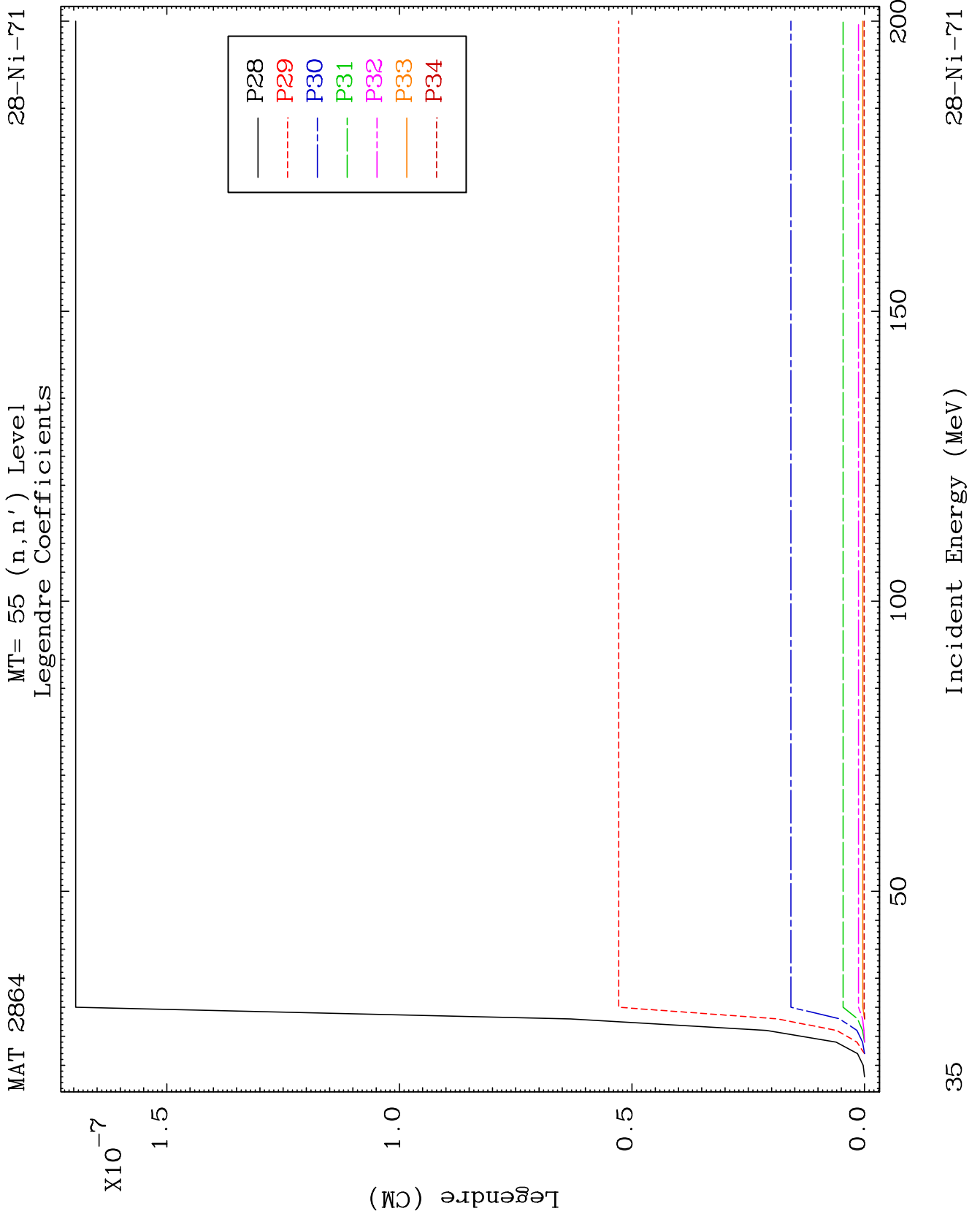
28-Ni-71

MAT 2864

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

28-Ni-71

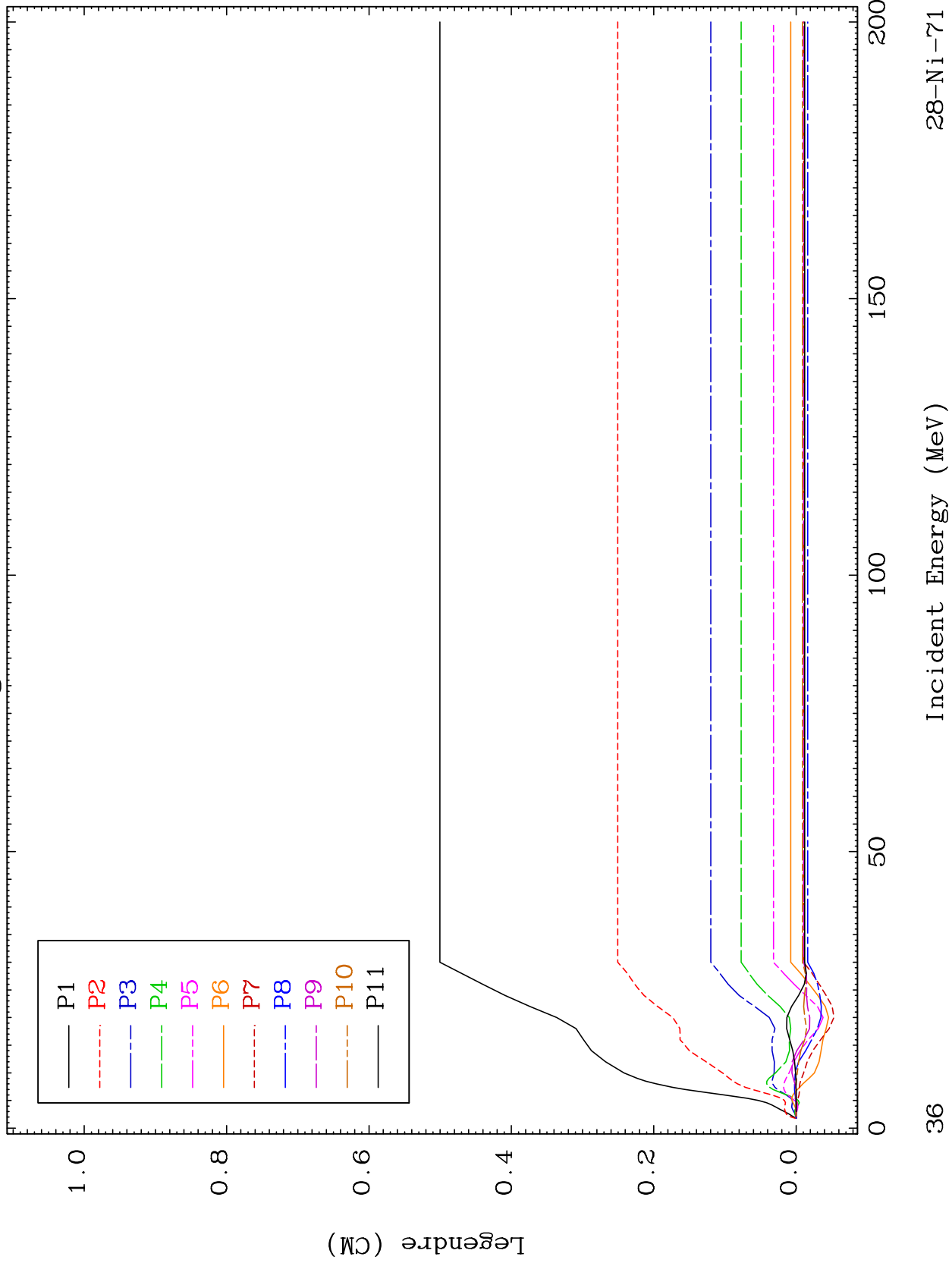




MAT 2864

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

28-Ni-71



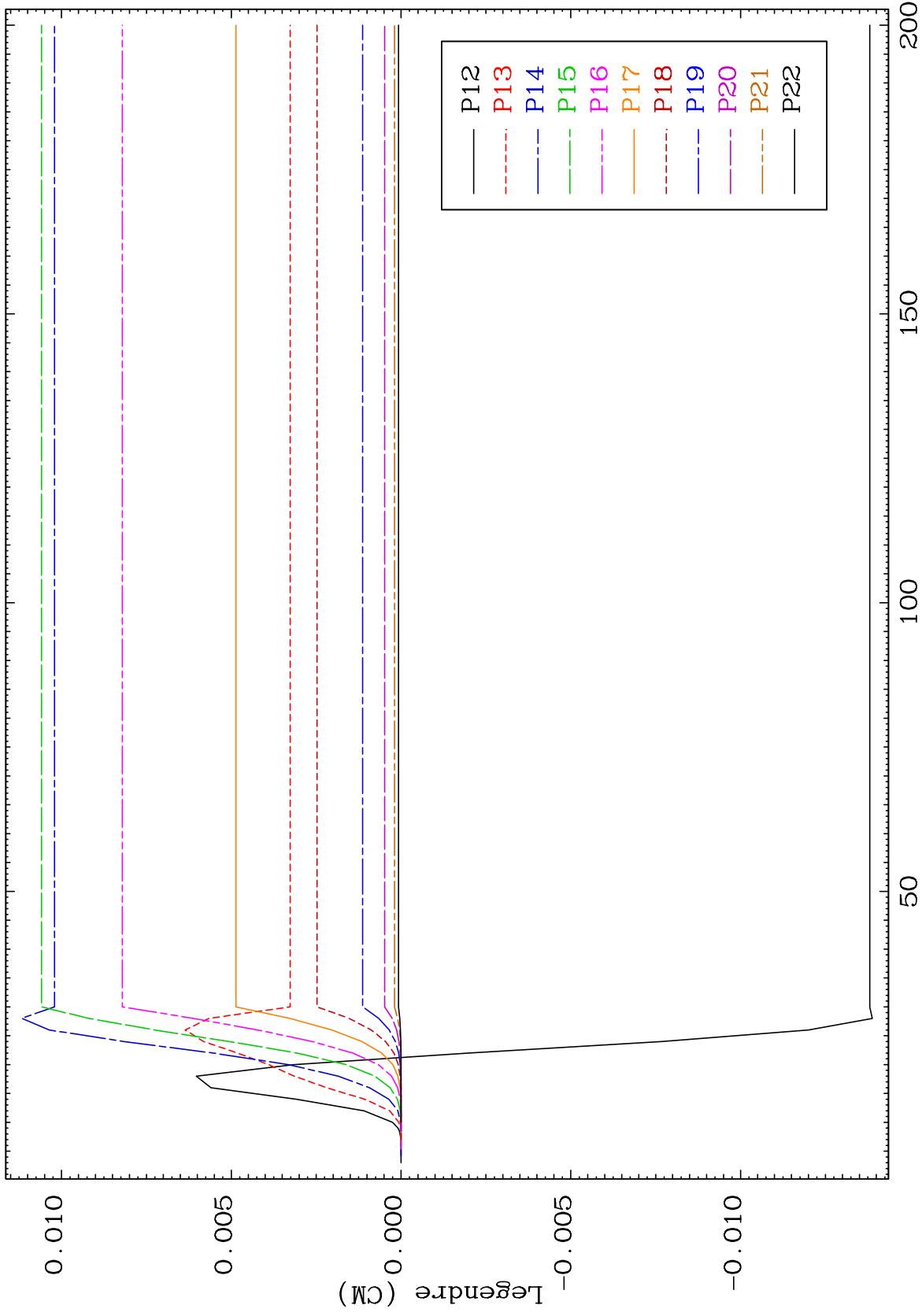
36

28-Ni-71

MAT 2864

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

28-Ni-71



37

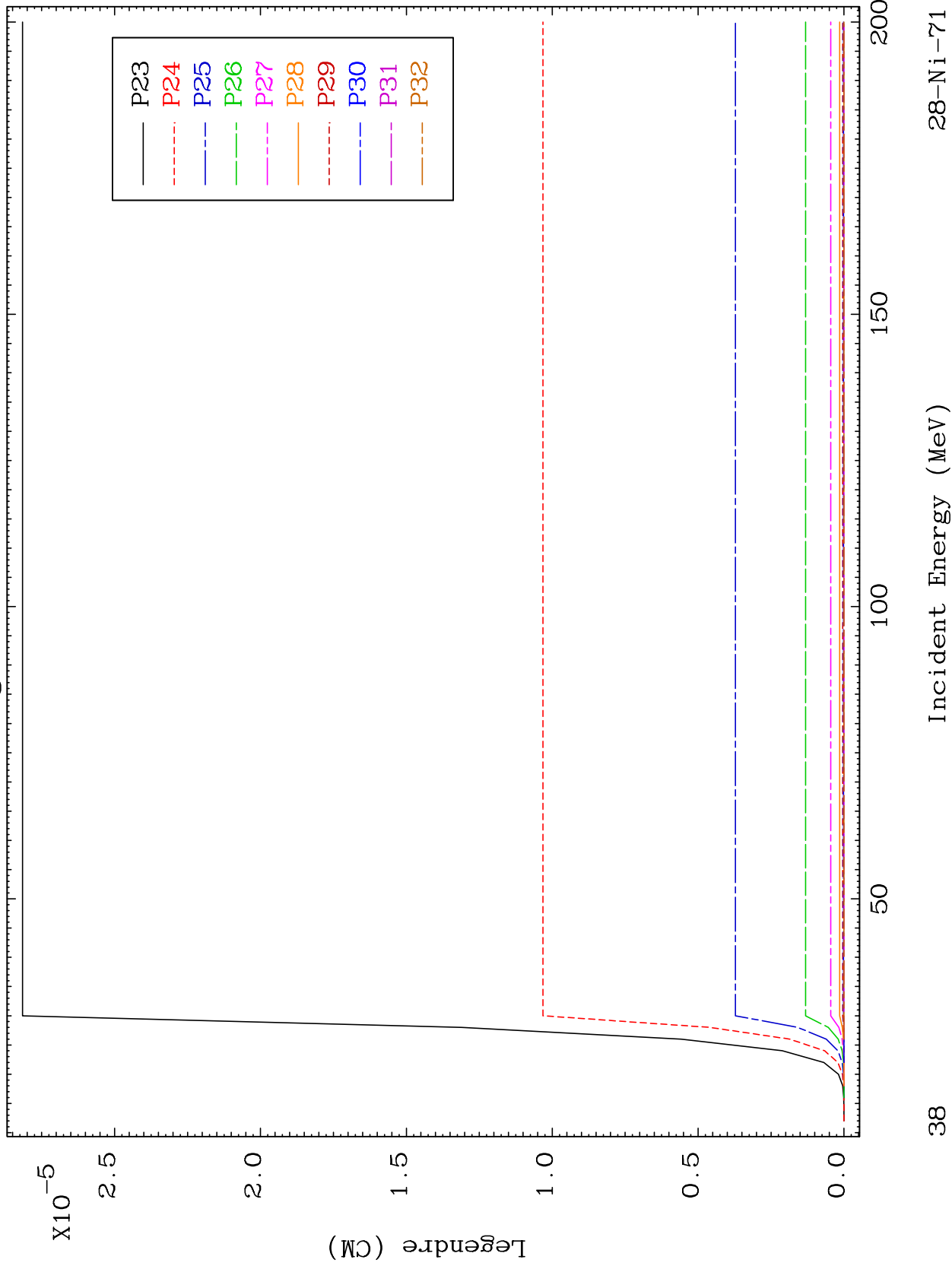
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



38

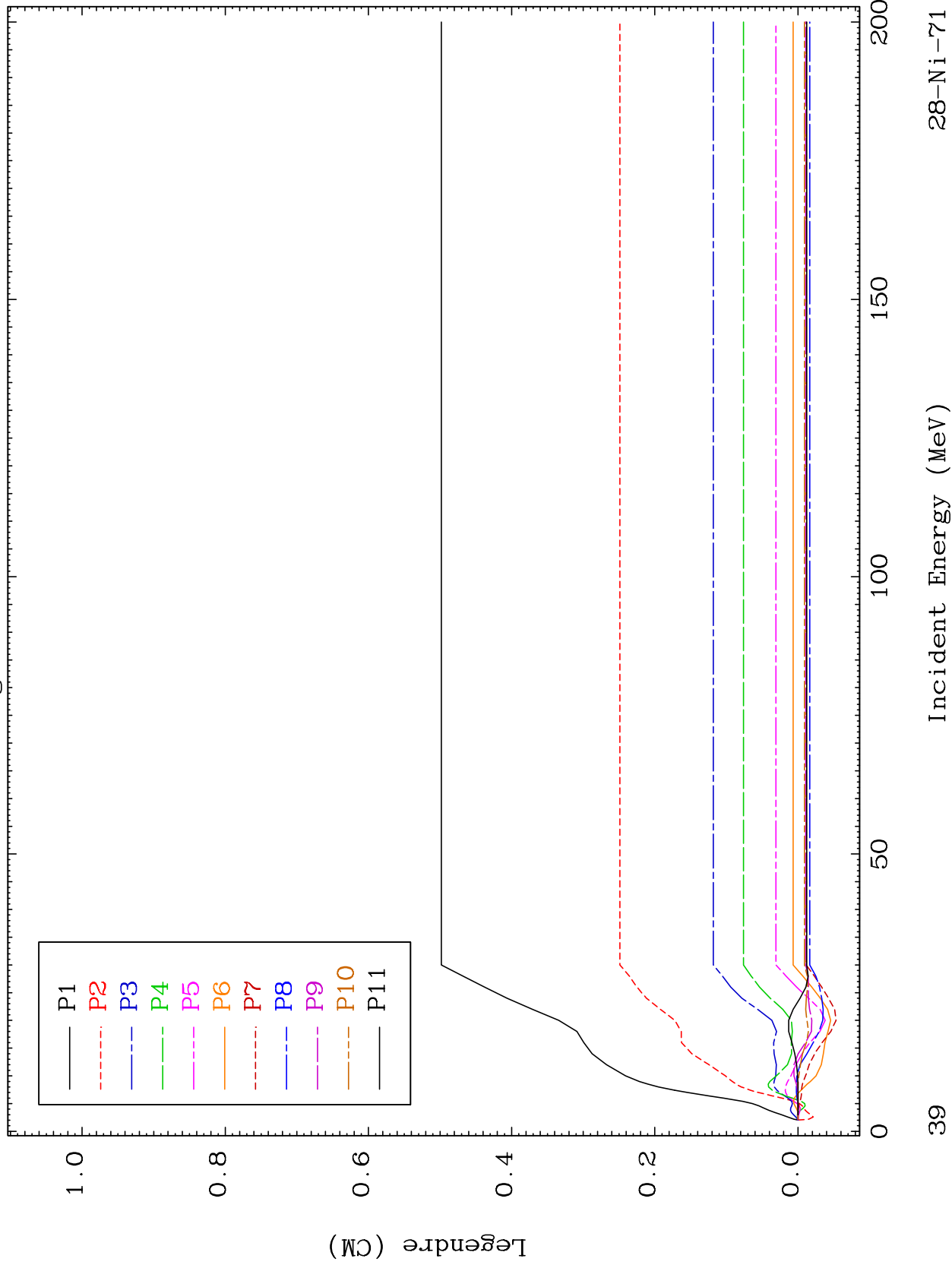
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



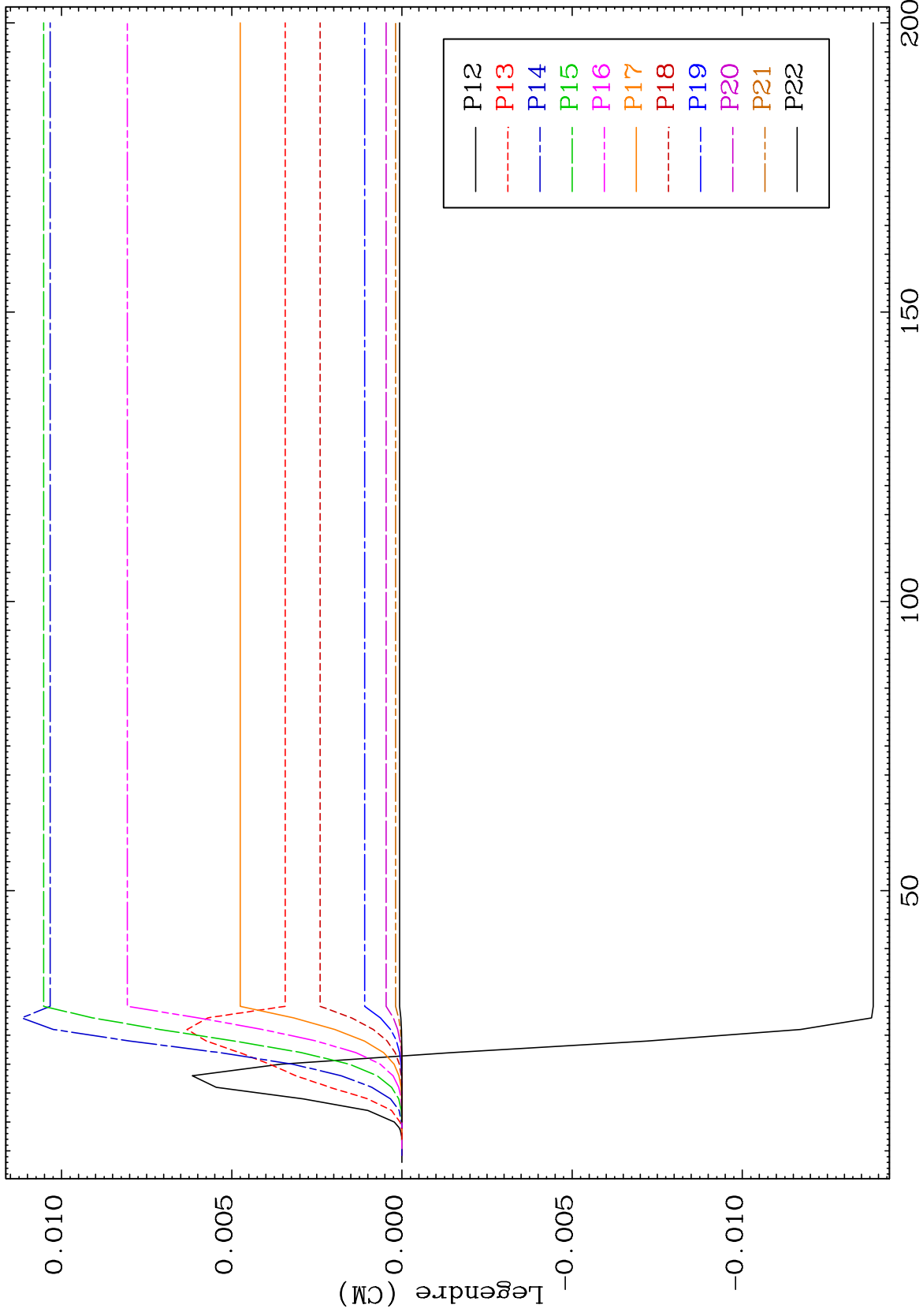
39

28-Ni-71

MAT 2864

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

28-Ni-71



40

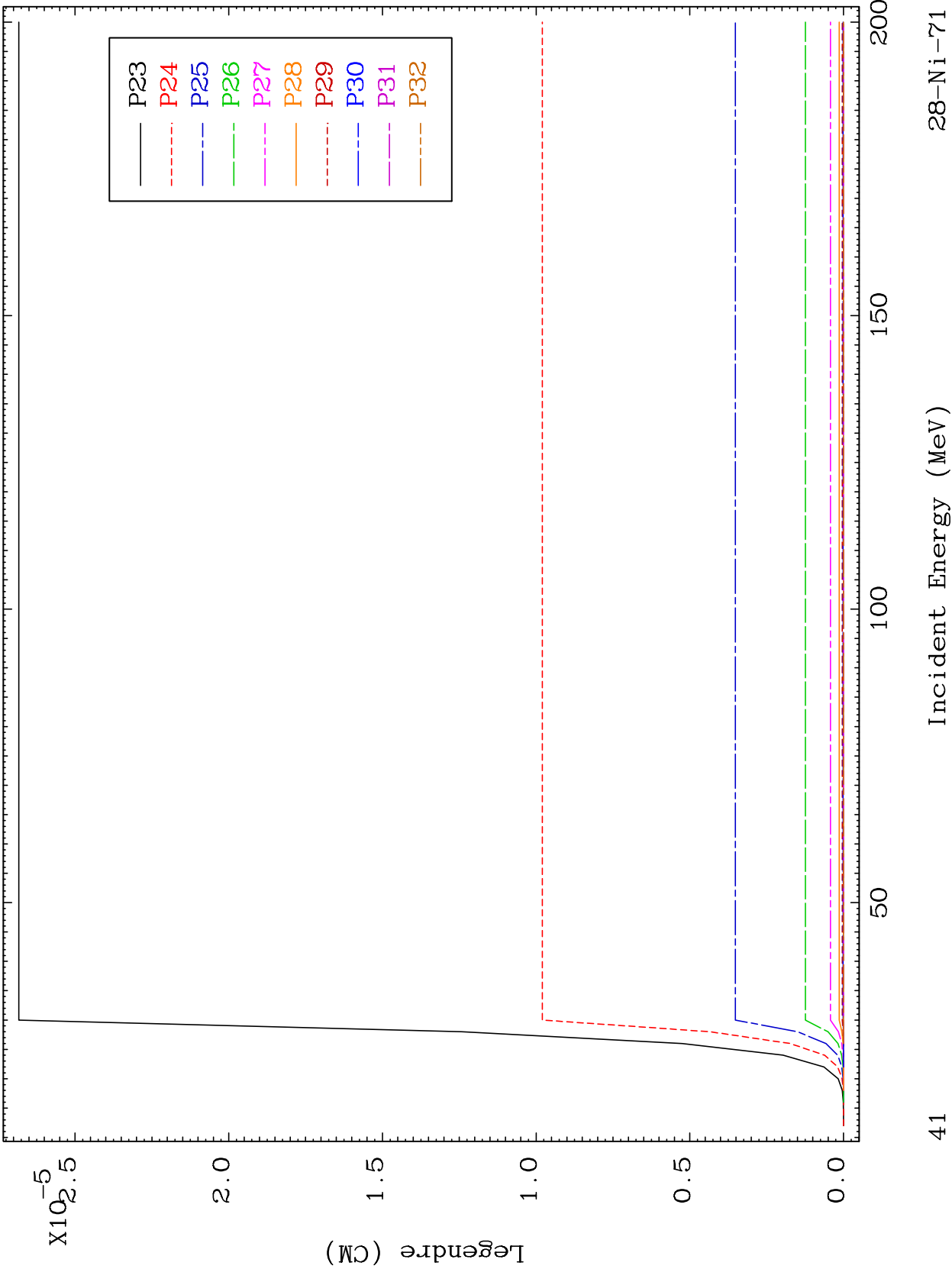
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



41

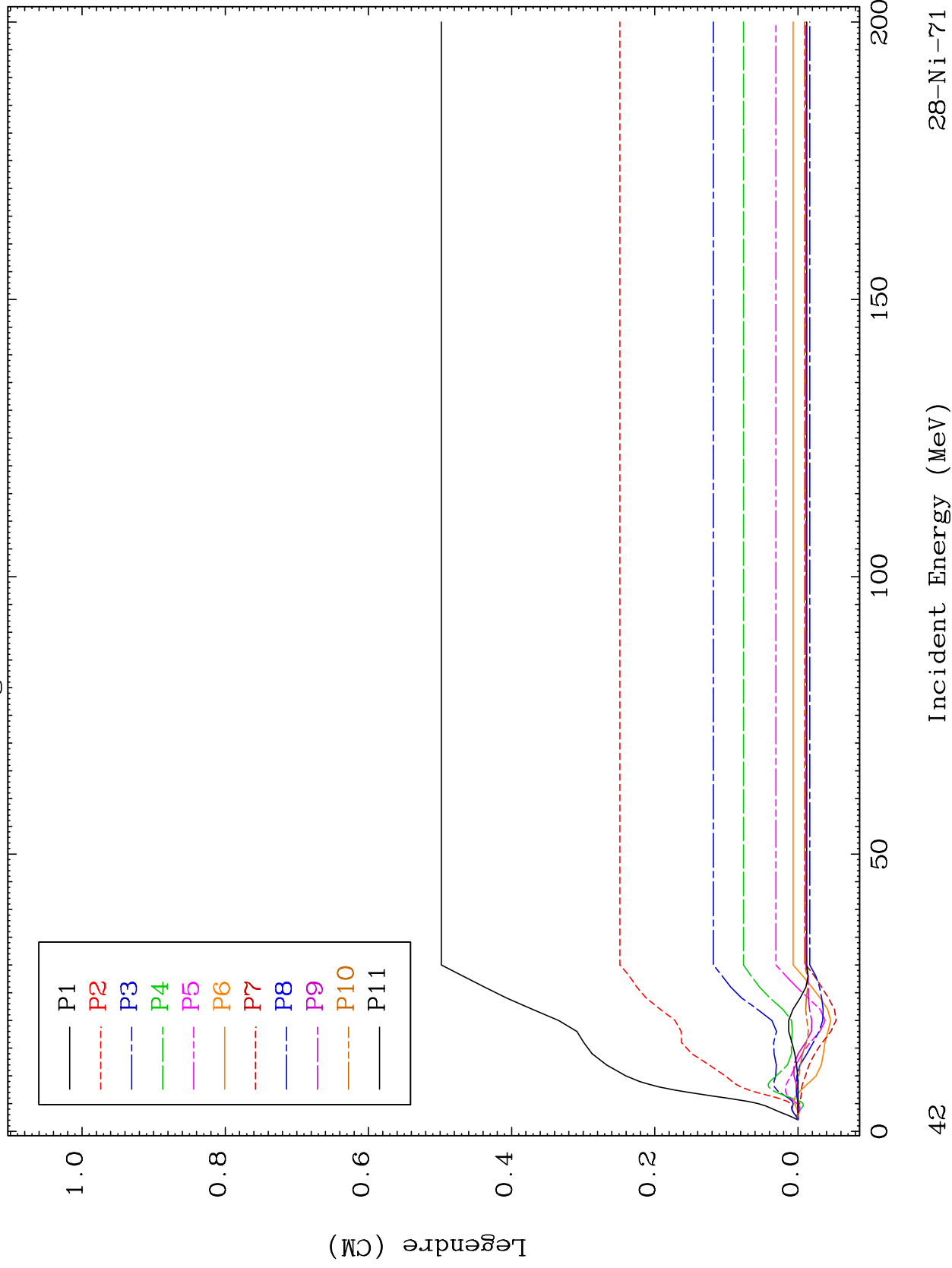
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



42

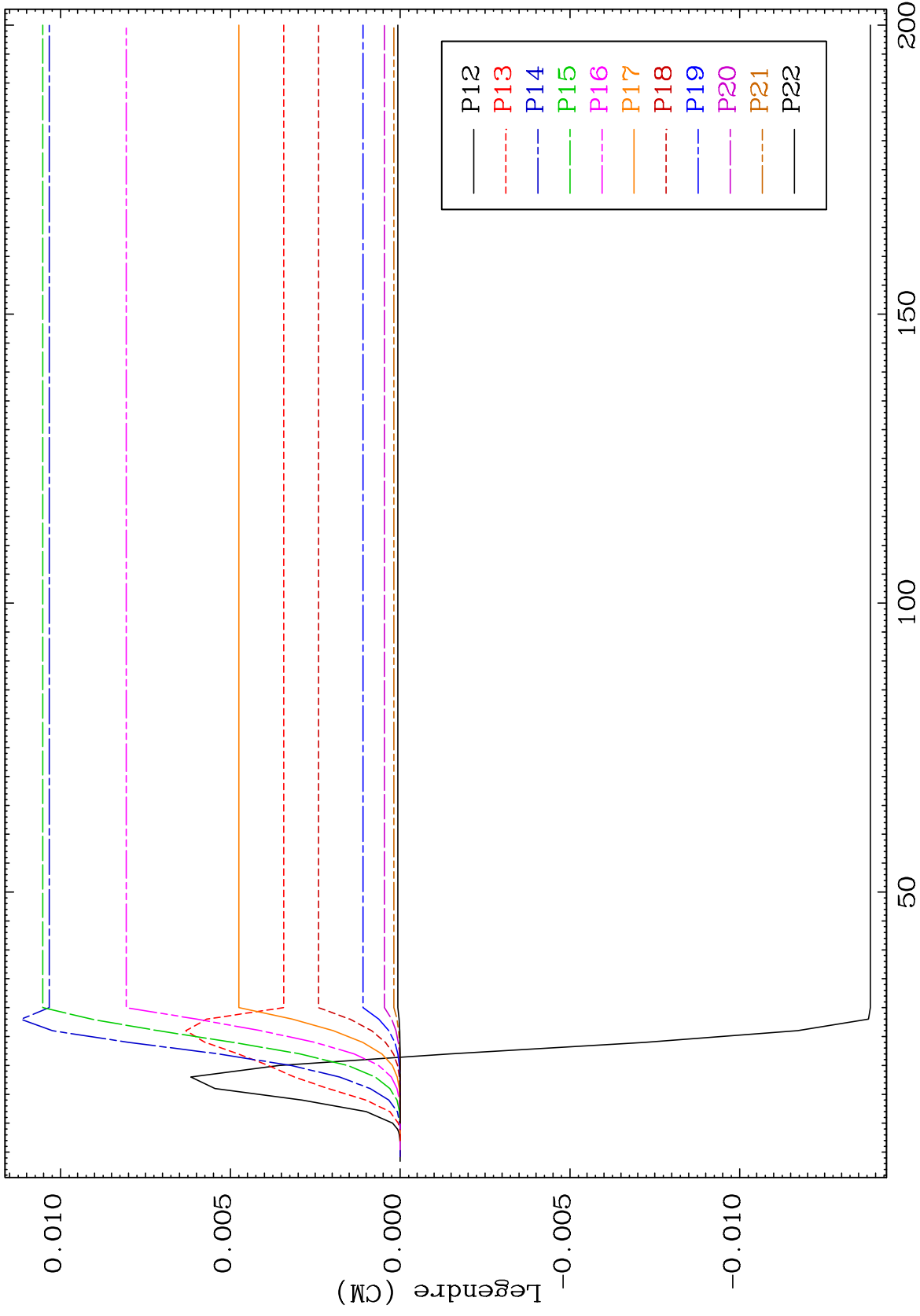
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



43

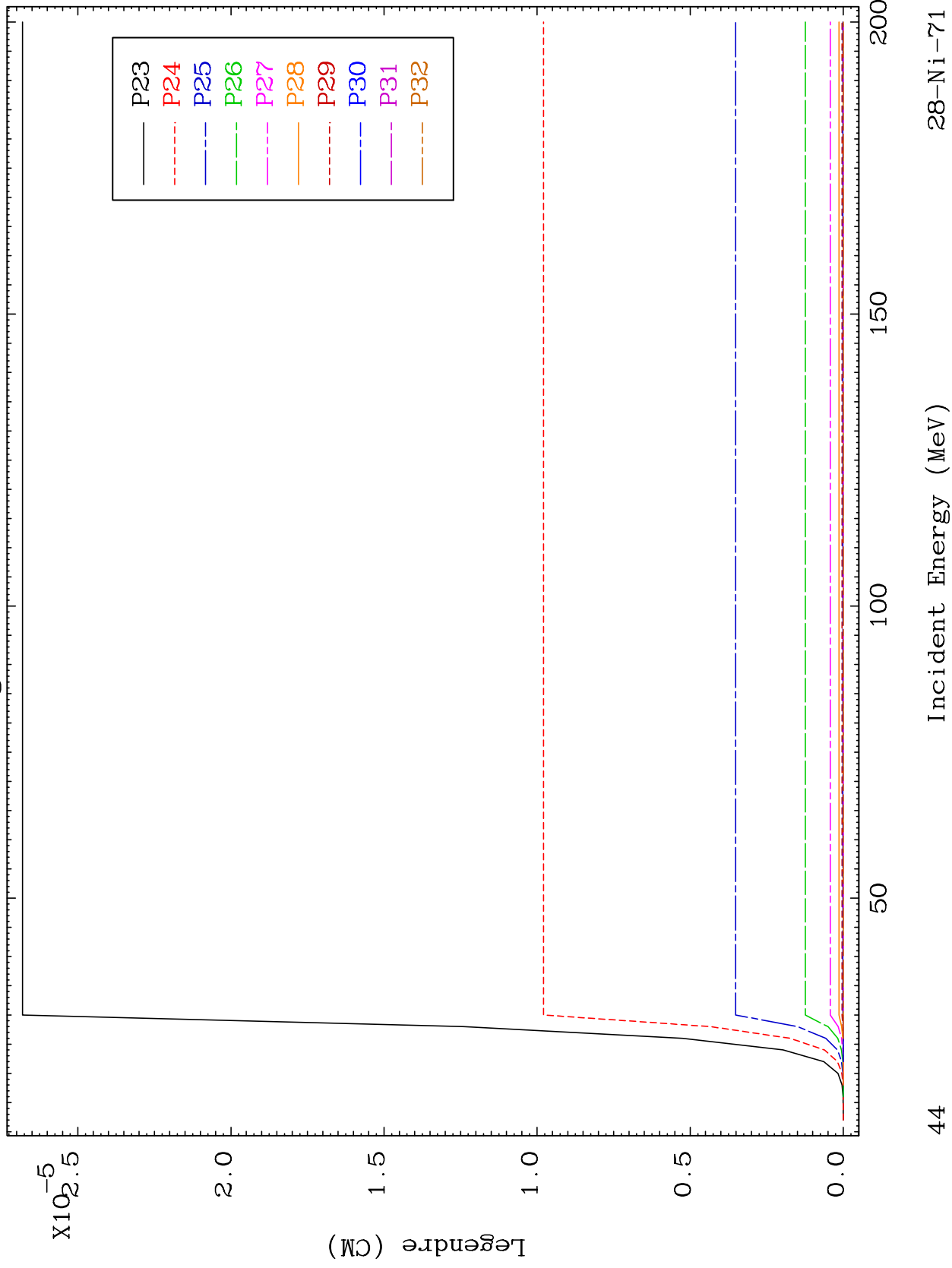
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



44

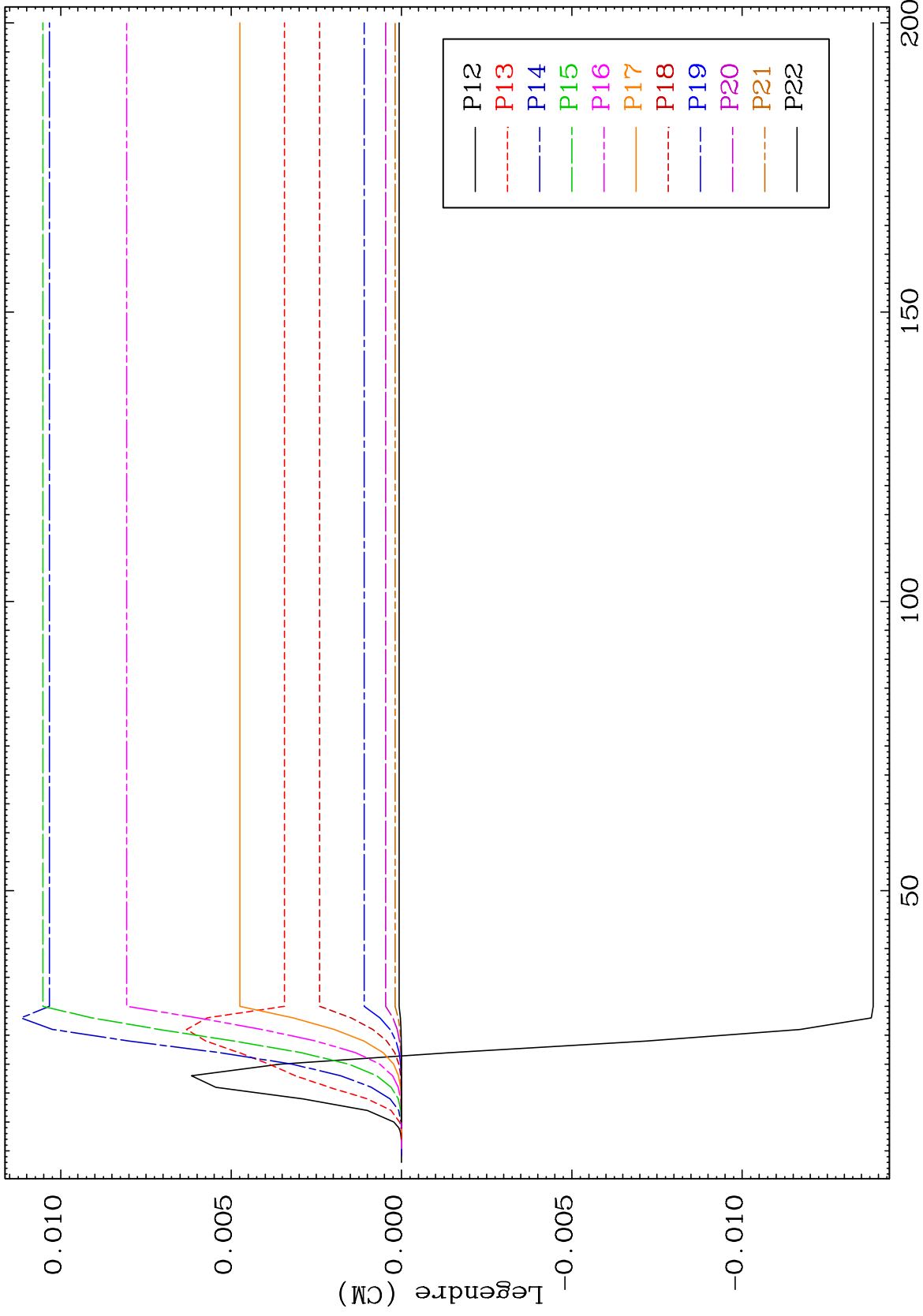
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



46

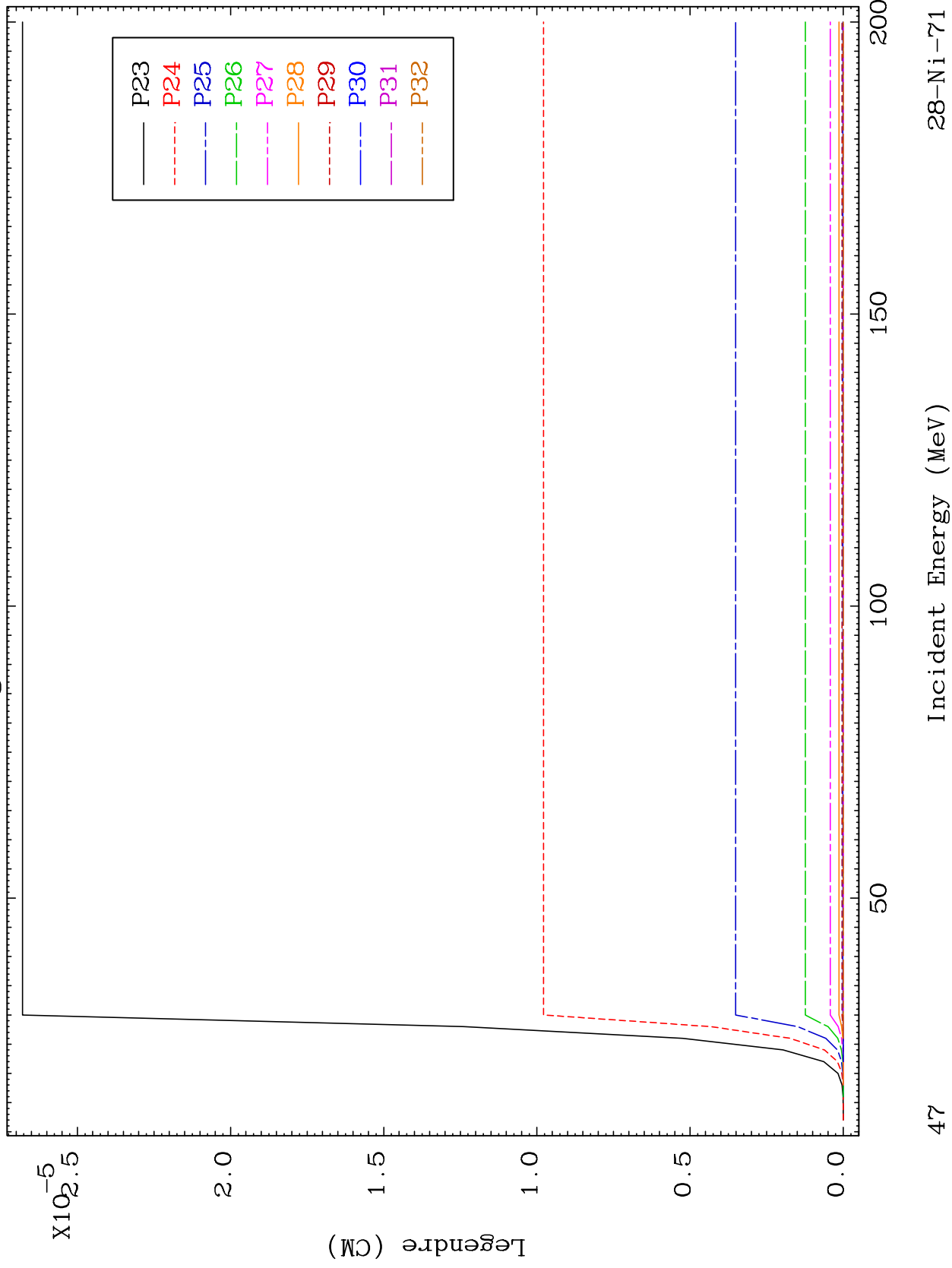
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



47

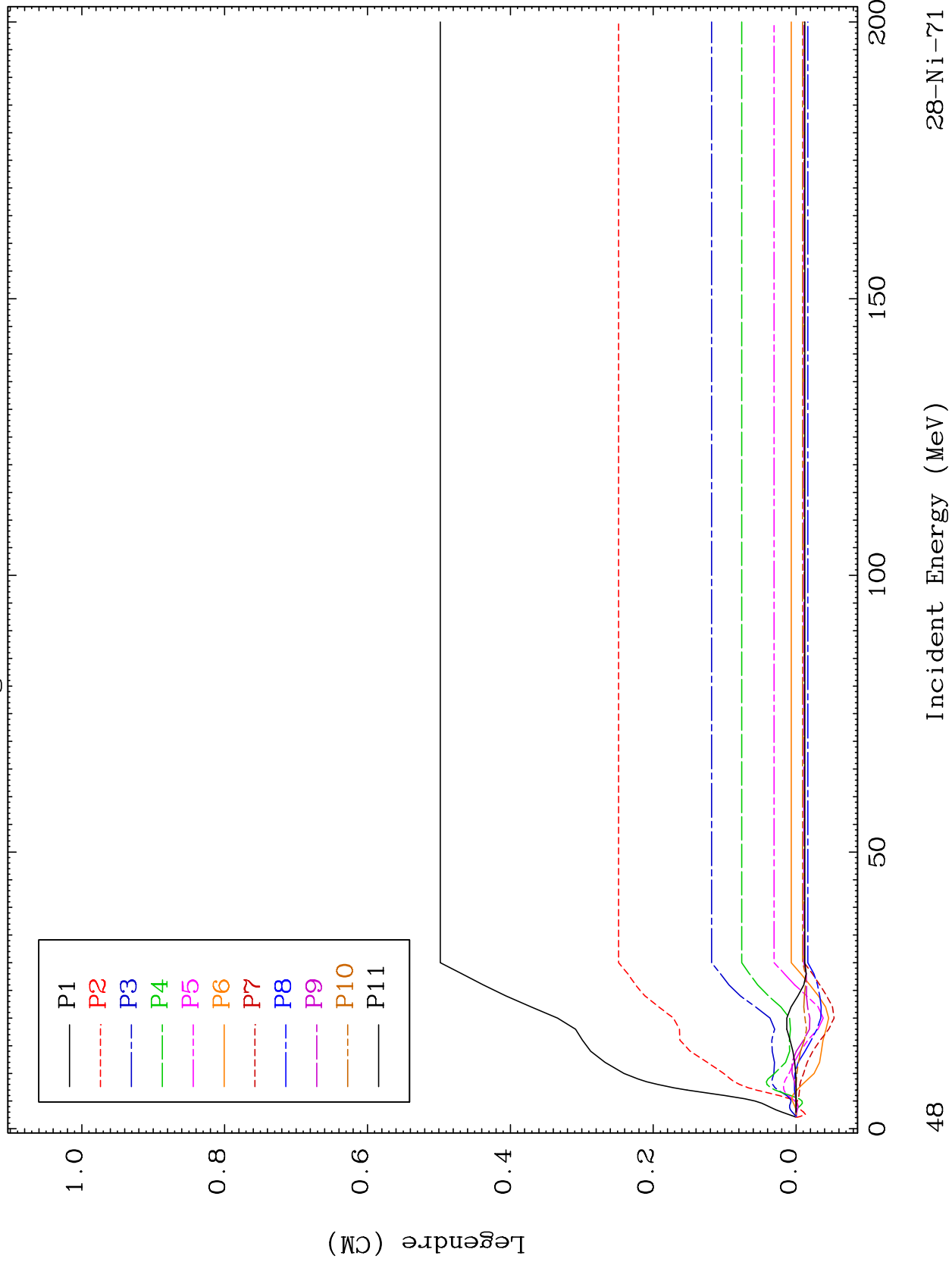
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



28-Ni-71

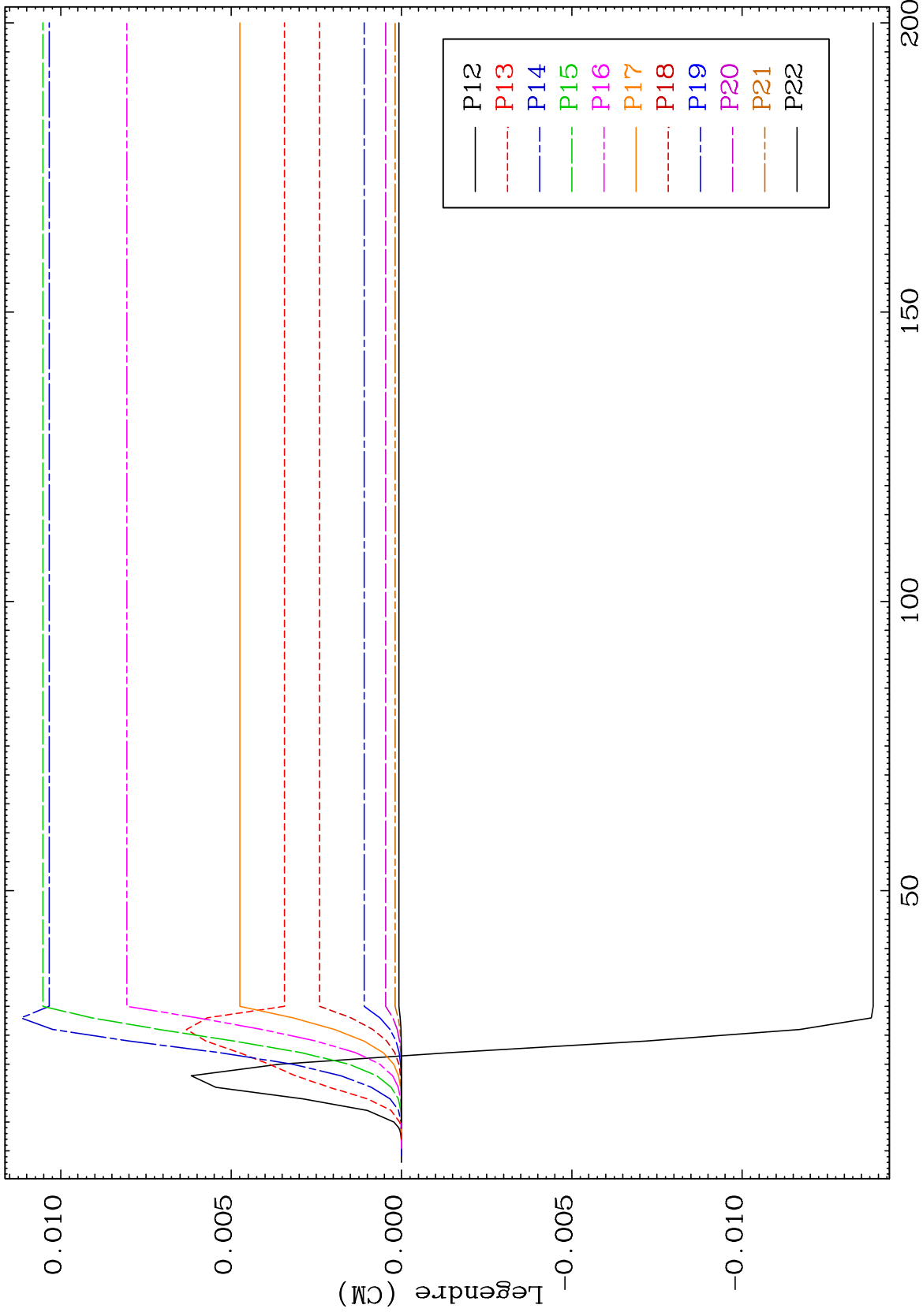
Incident Energy (MeV)

48

MAT 2864

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

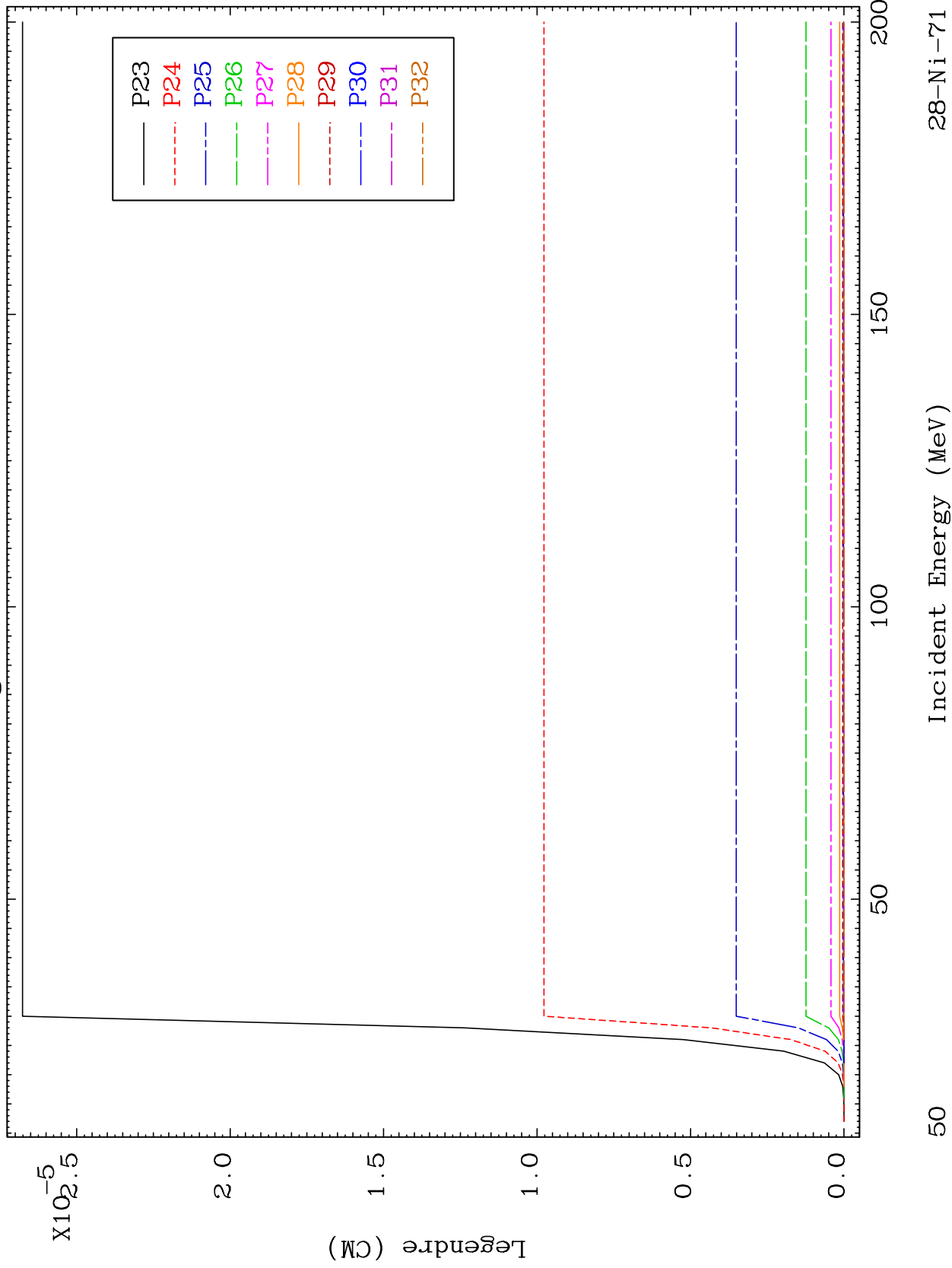
28-Ni-71



MAT 2864

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

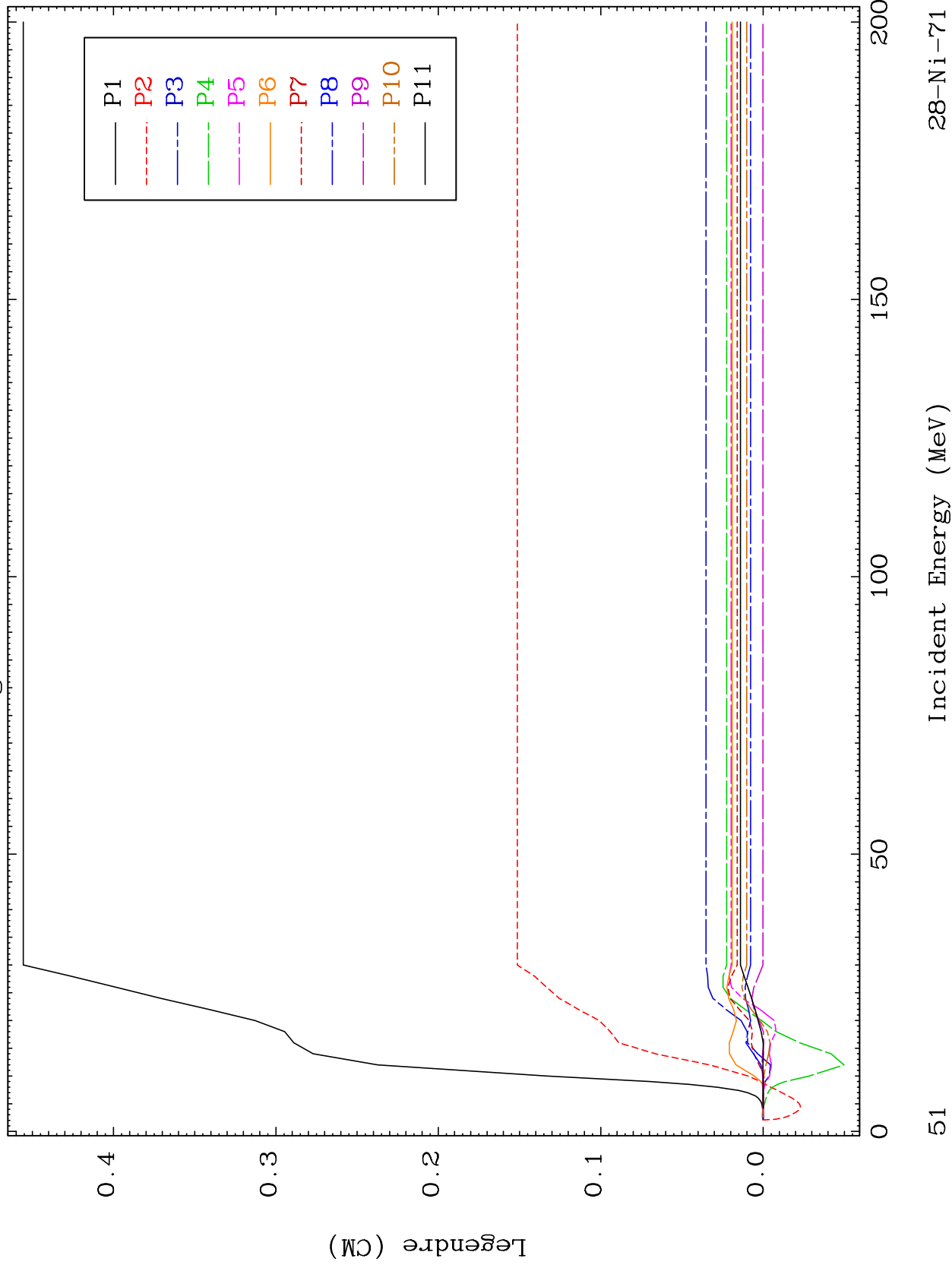
28-Ni-71



MAT 2864

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

28-Ni-71



51

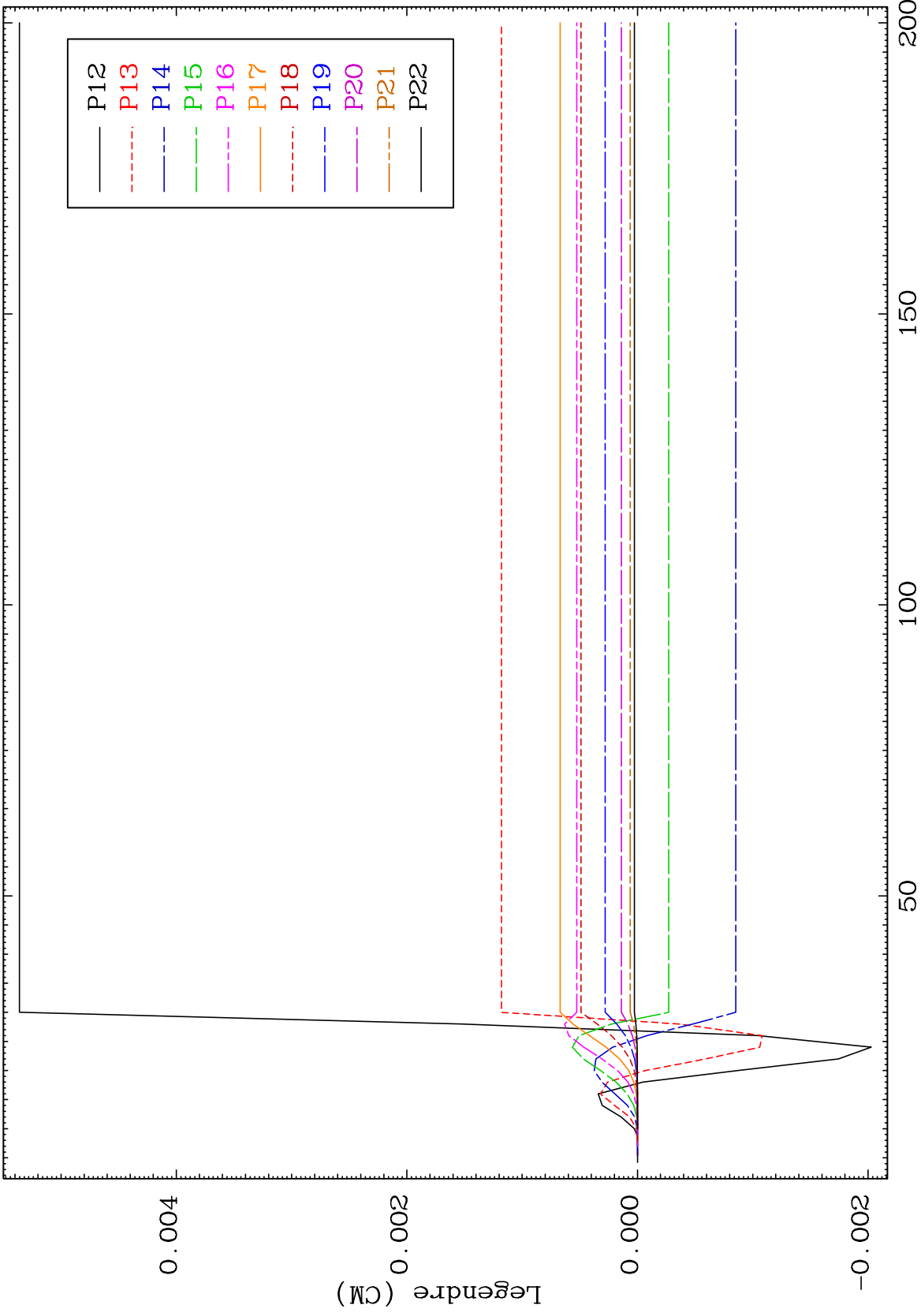
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



52

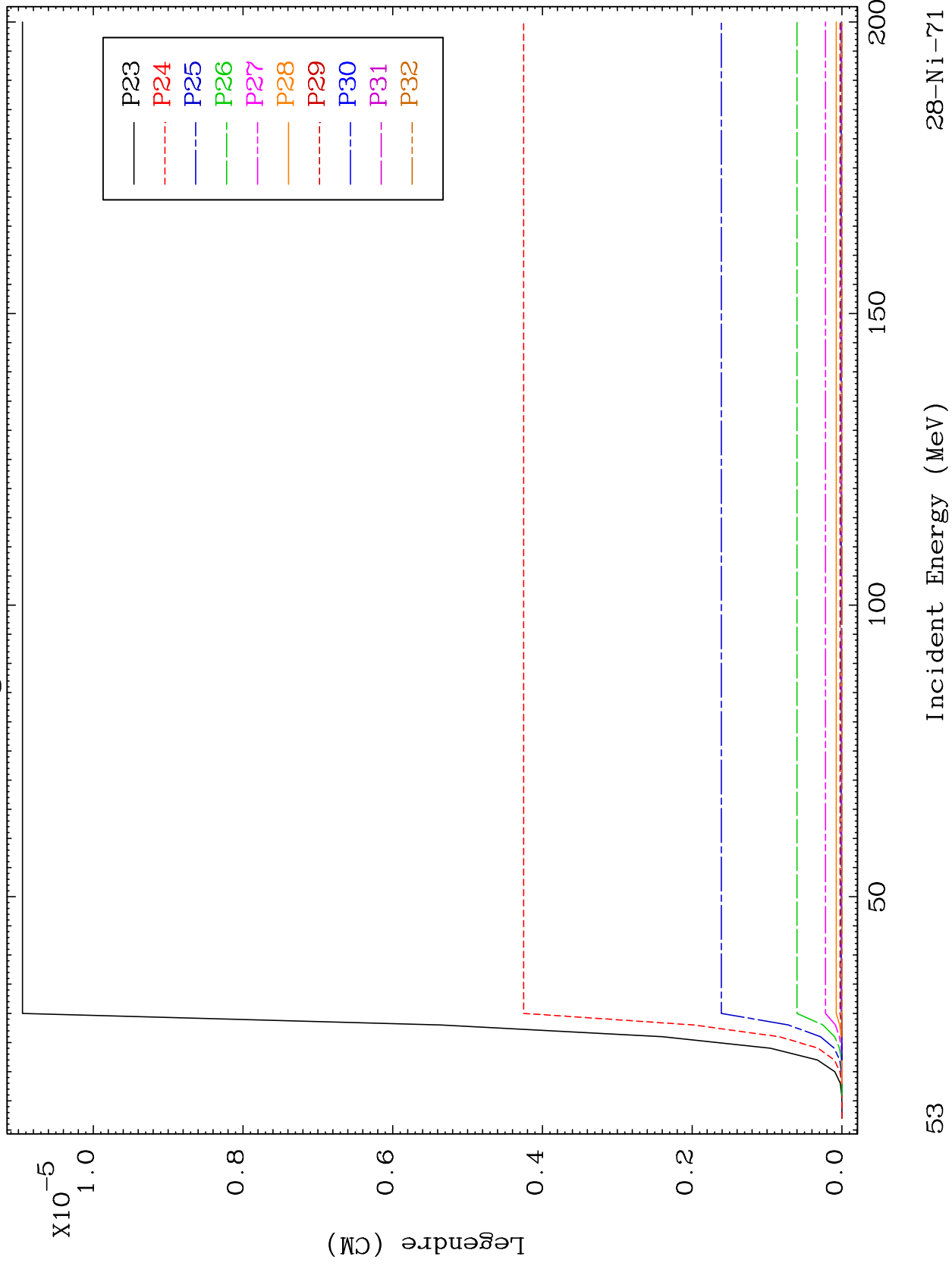
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71

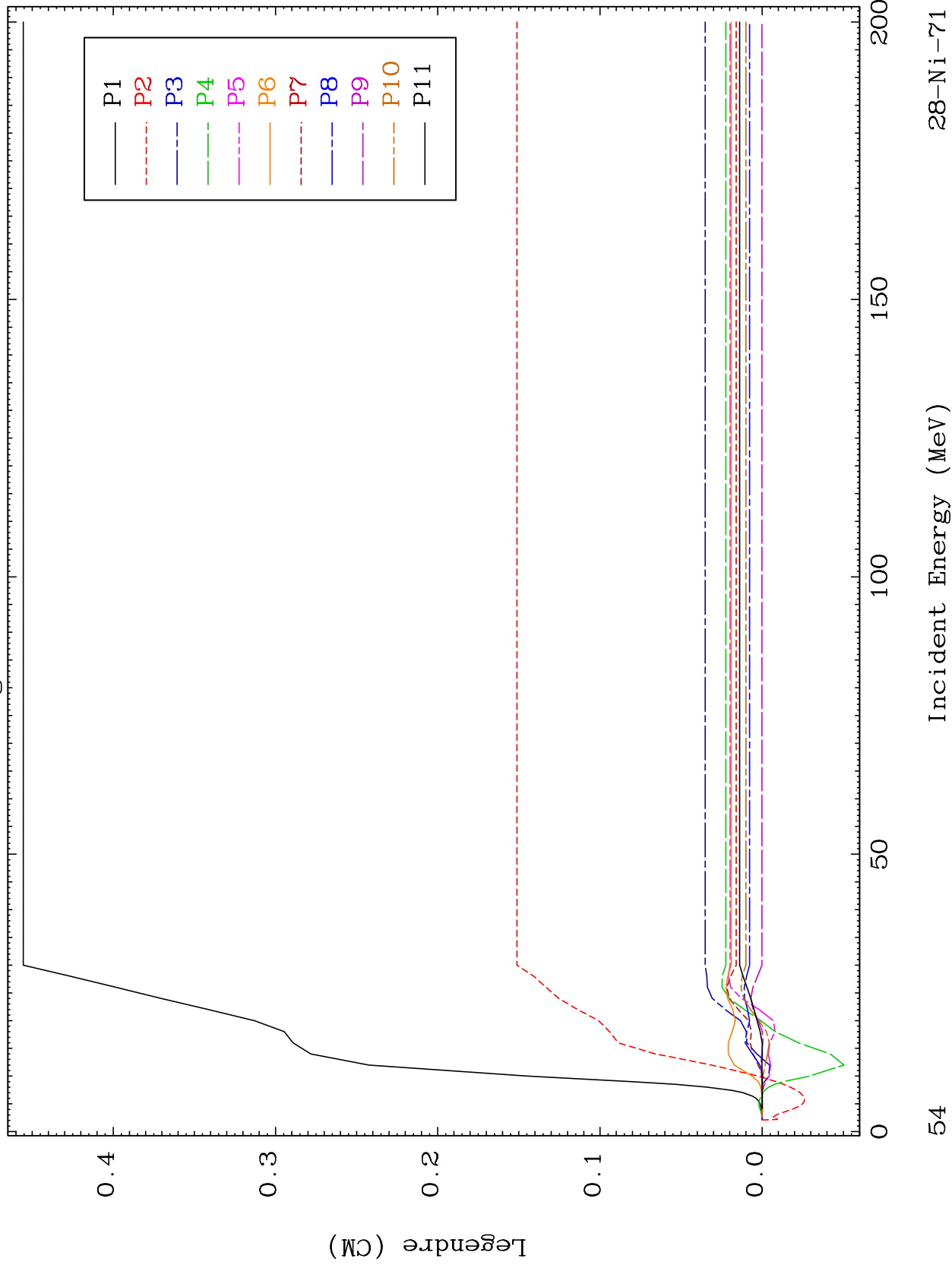


53

MAT 2864

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

28-Ni-71



28-Ni-71

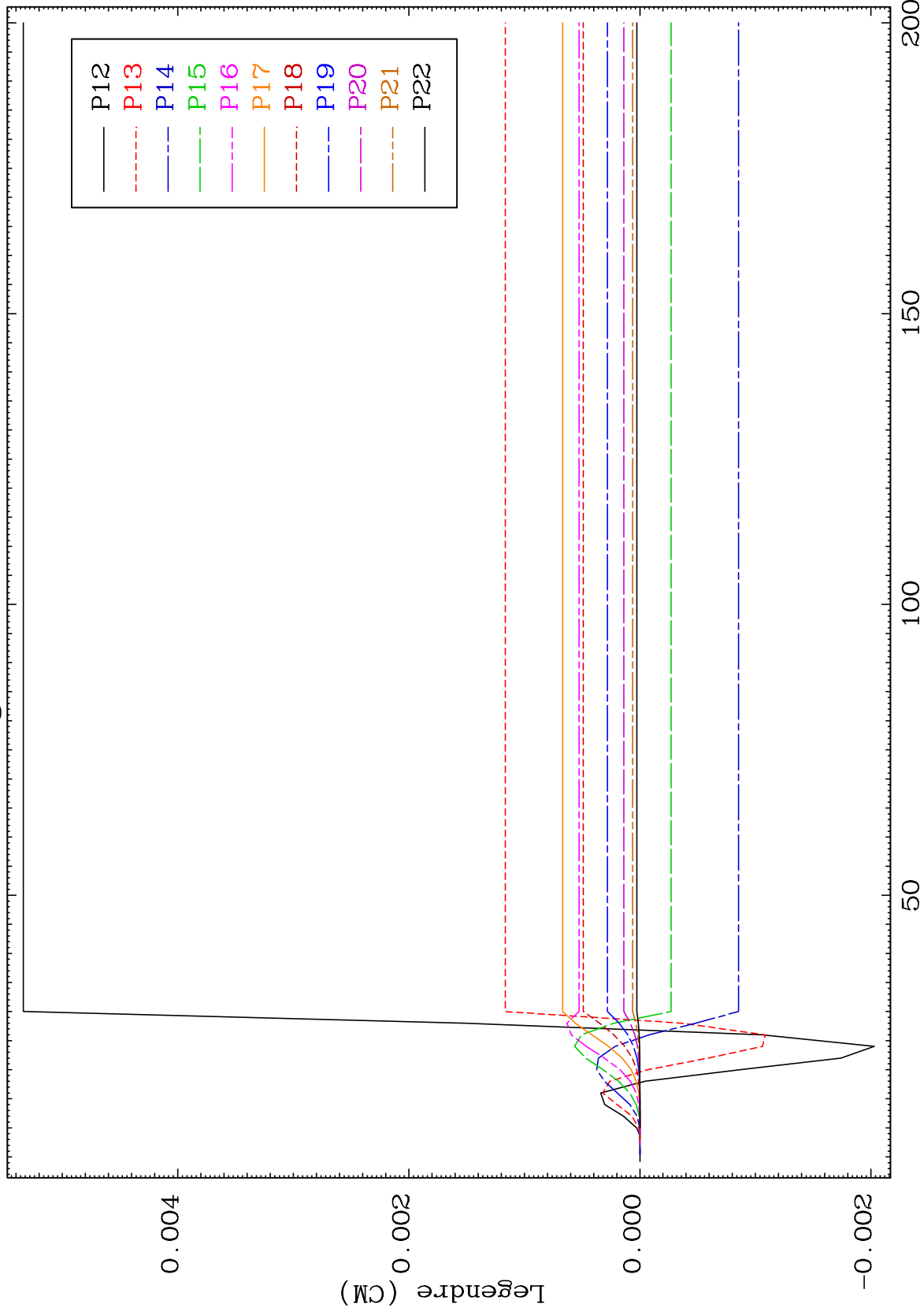
Incident Energy (MeV)

54

MAT 2864

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

28-Ni-71



55

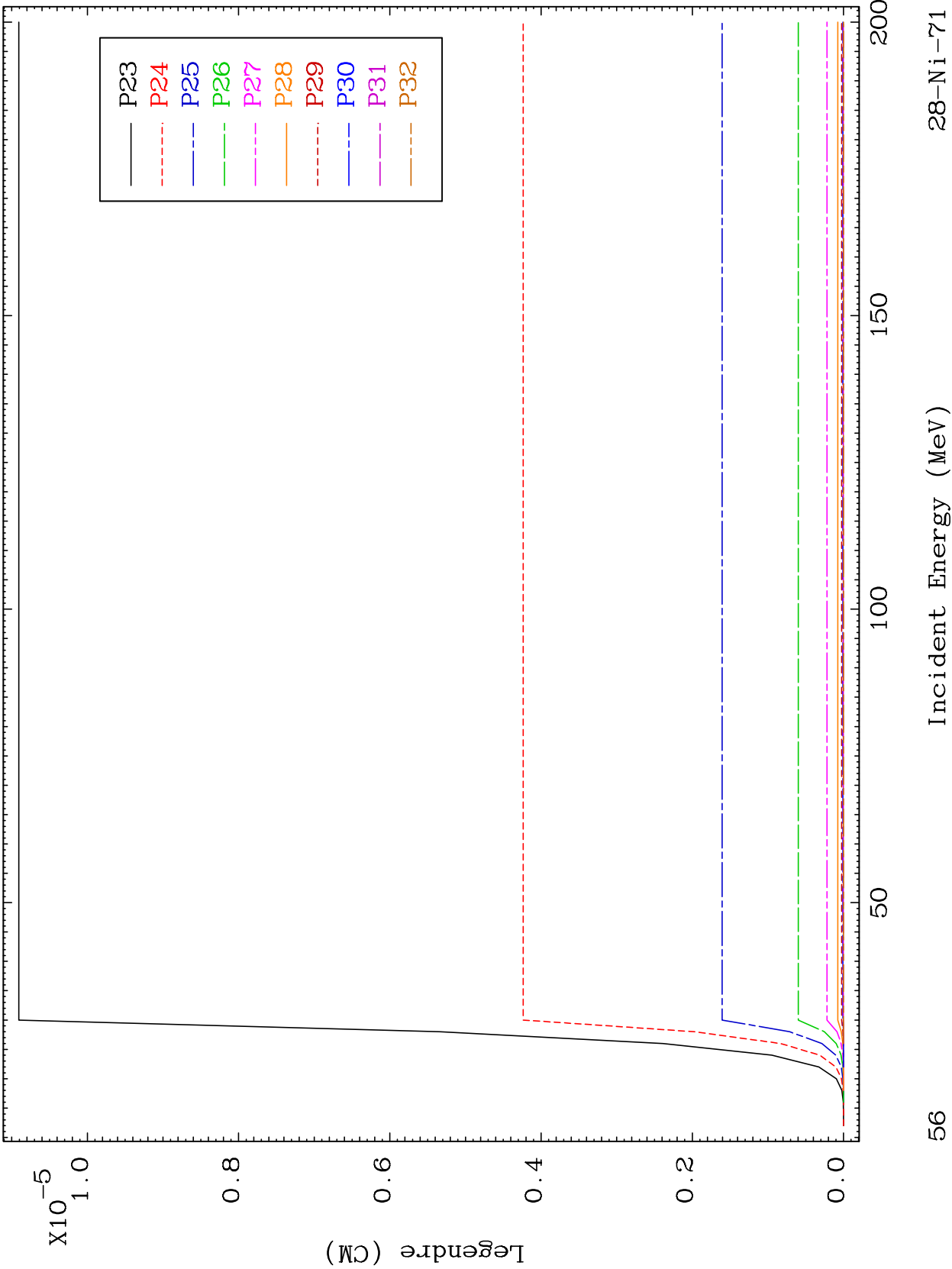
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



56

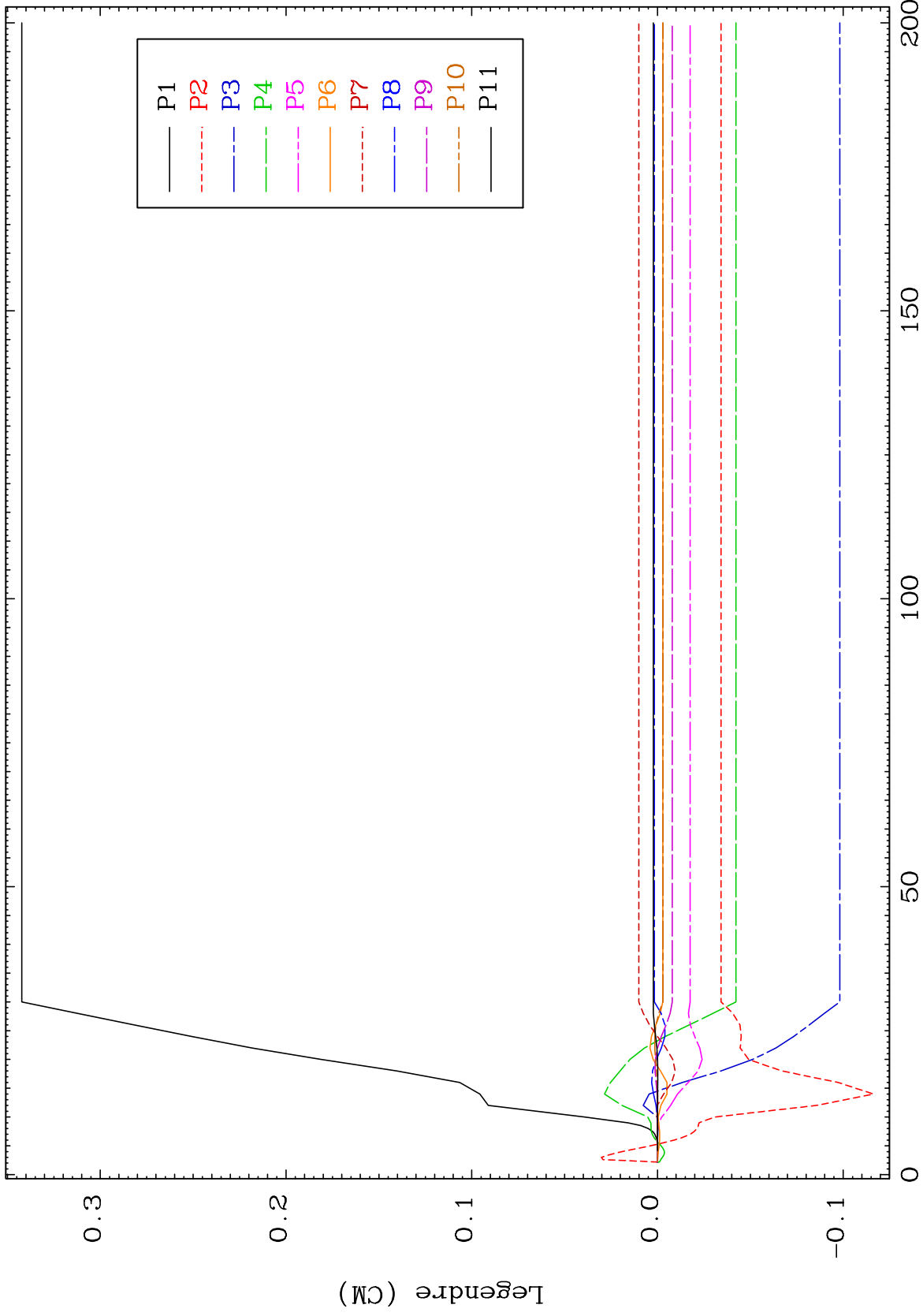
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



57

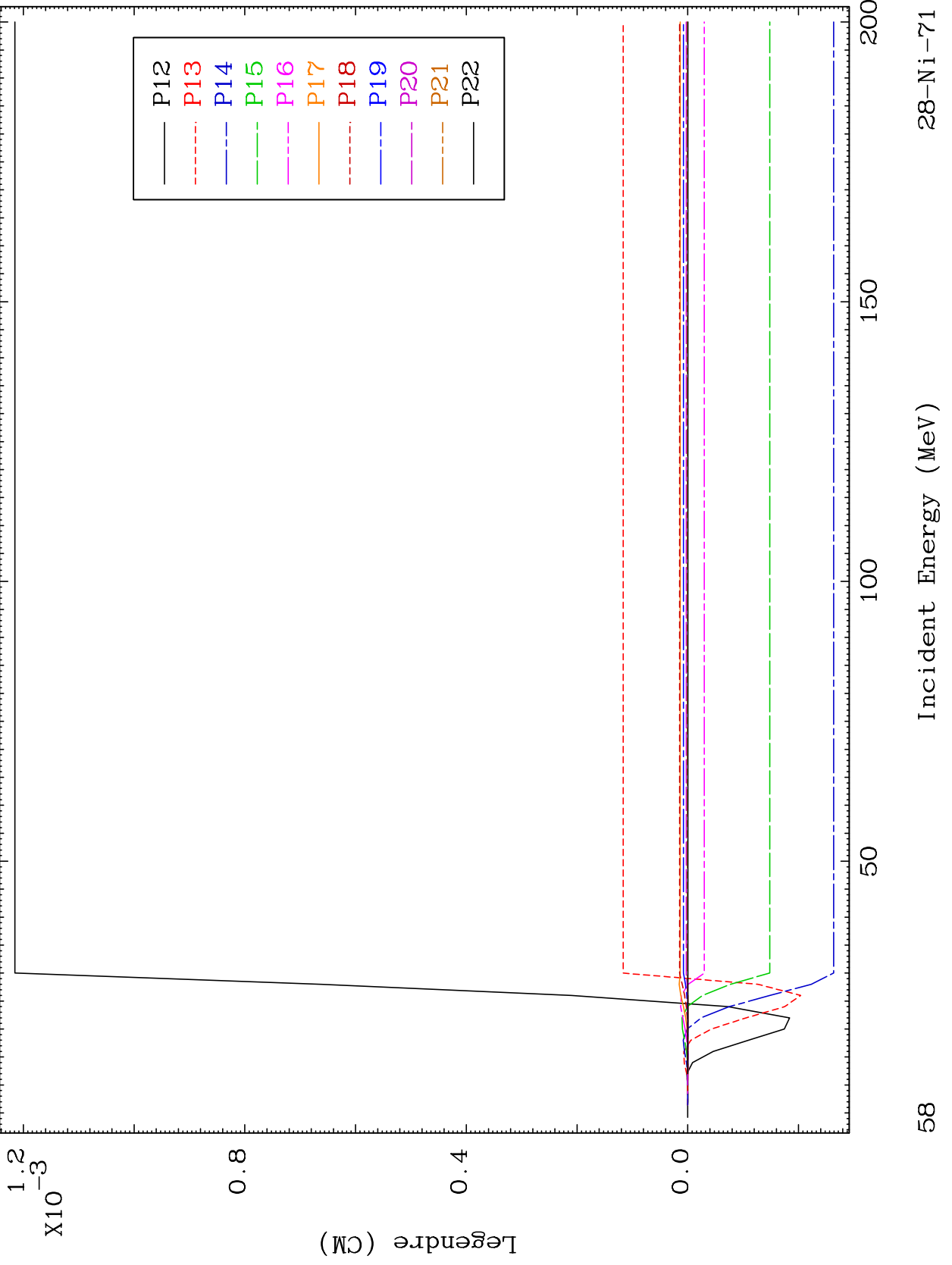
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71

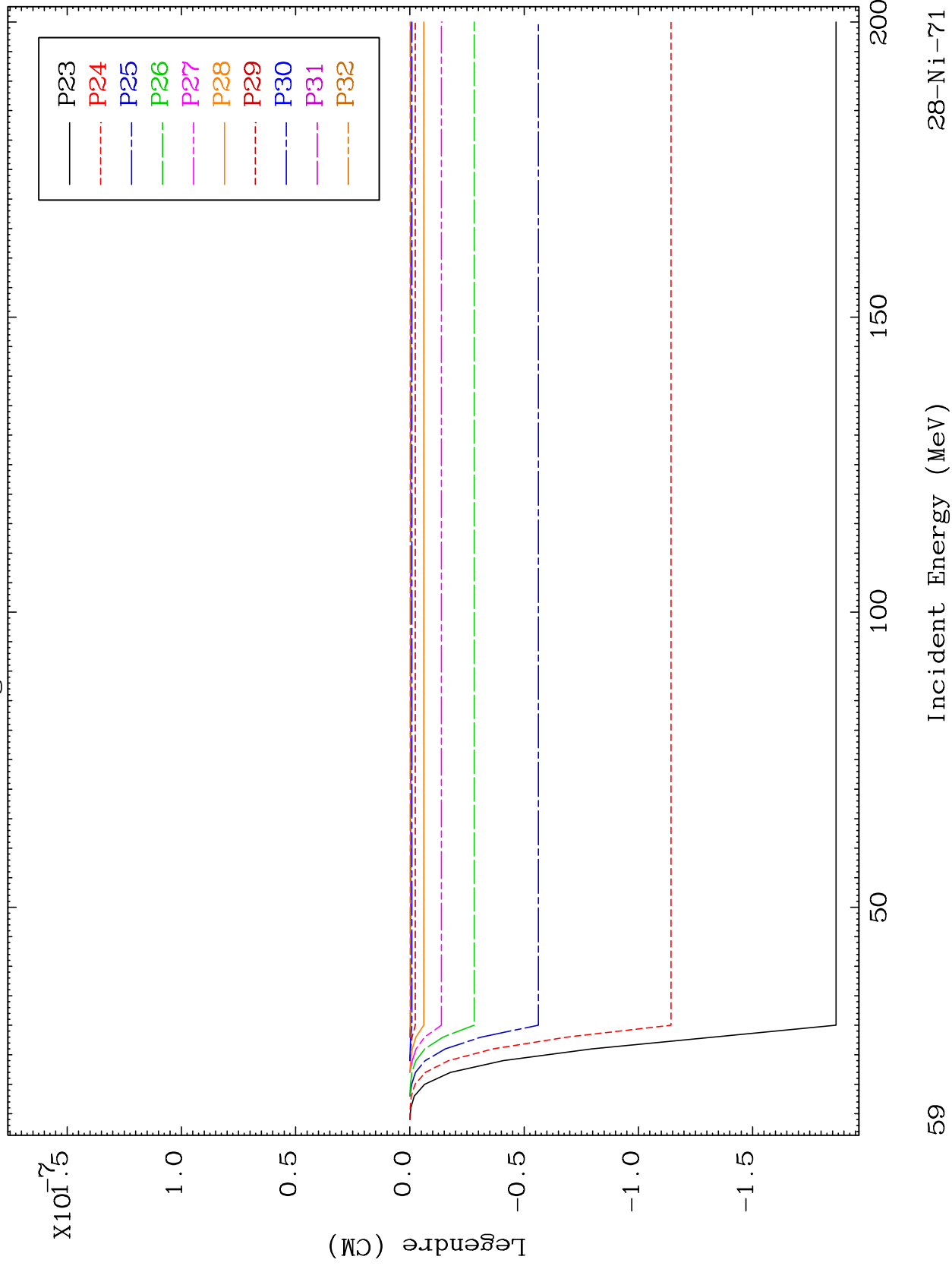


58

MAT 2864

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

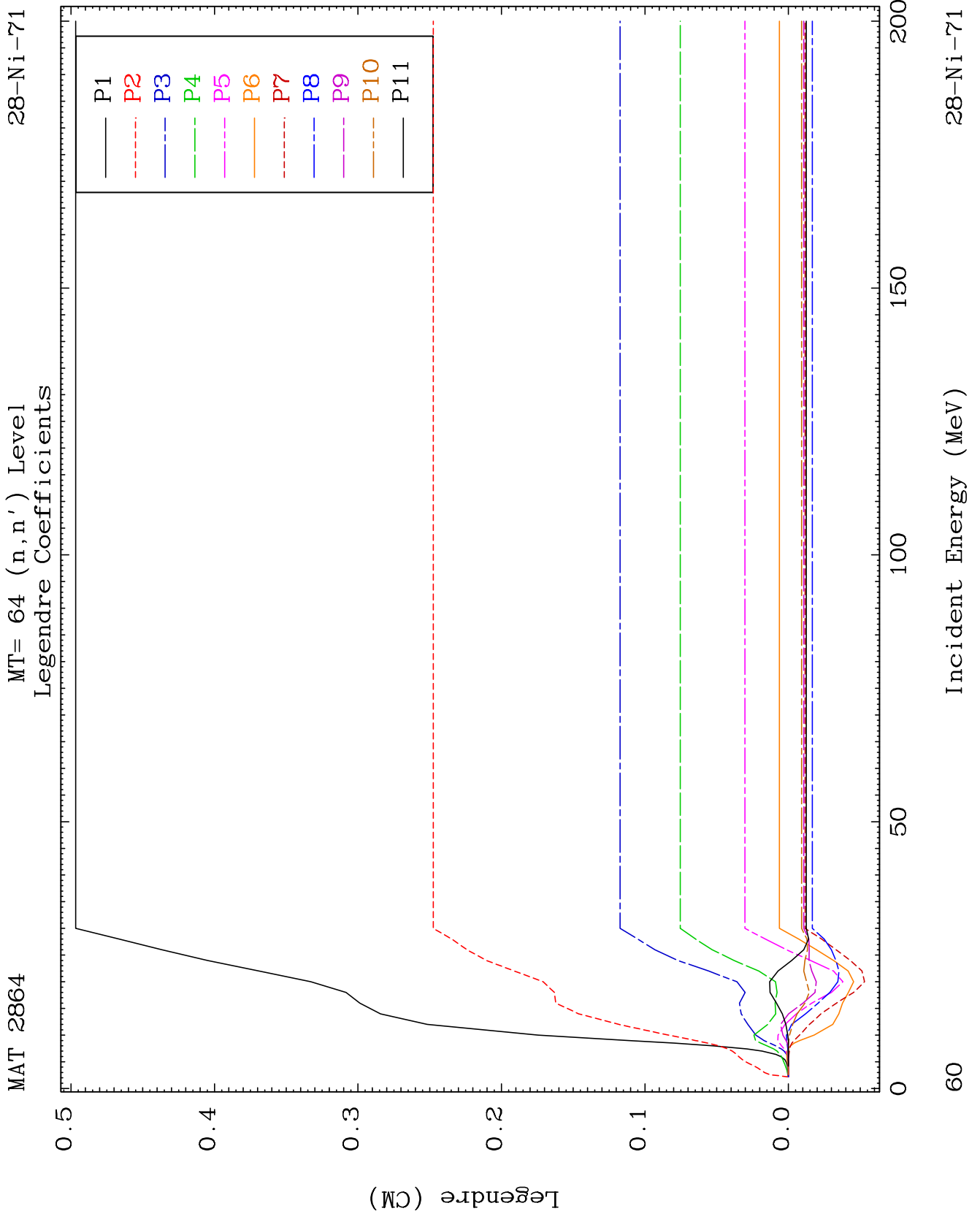
28-Ni-71



59

Incident Energy (MeV)

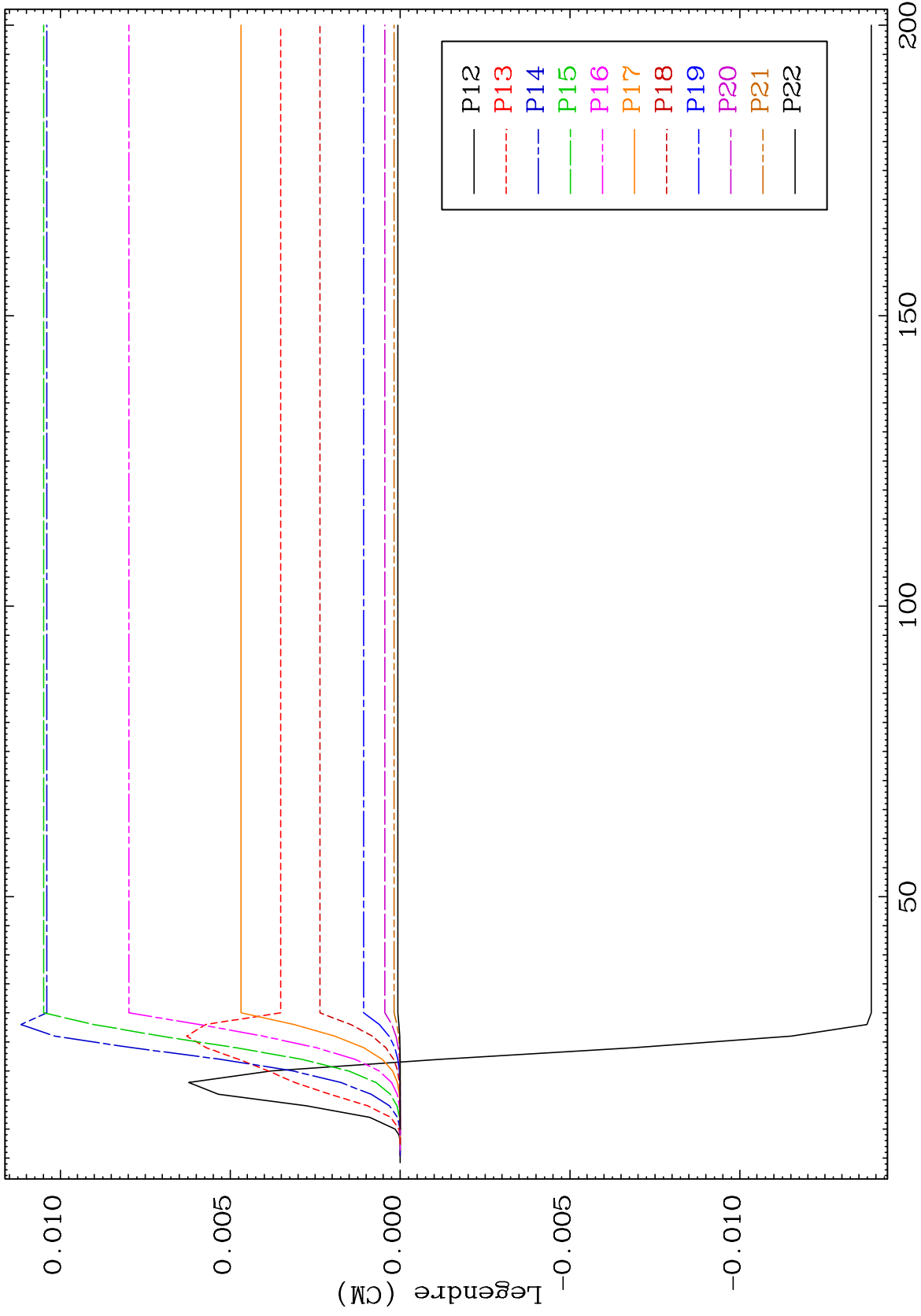
28-Ni-71



MAT 2864

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

28-Ni-71



61

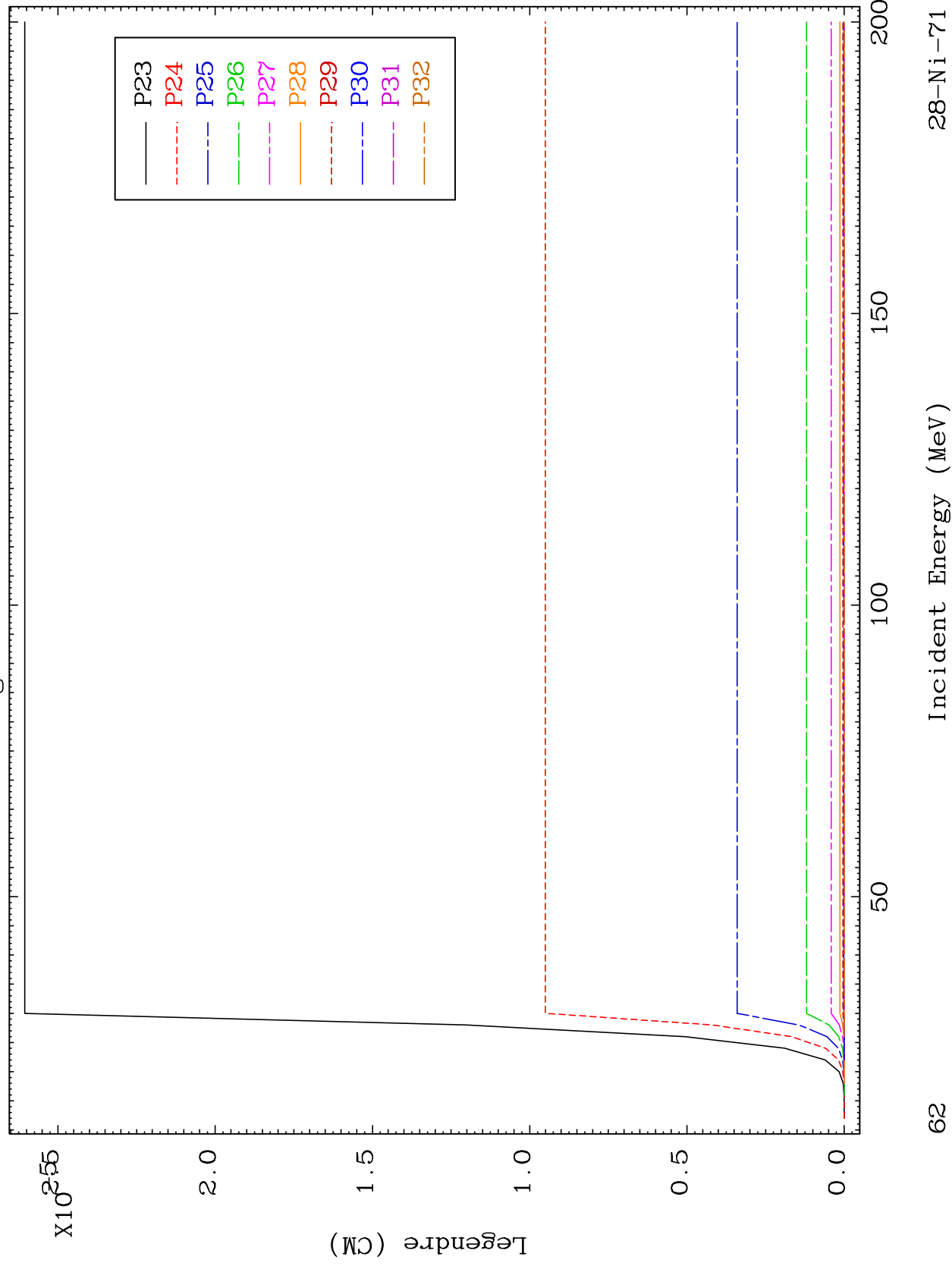
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

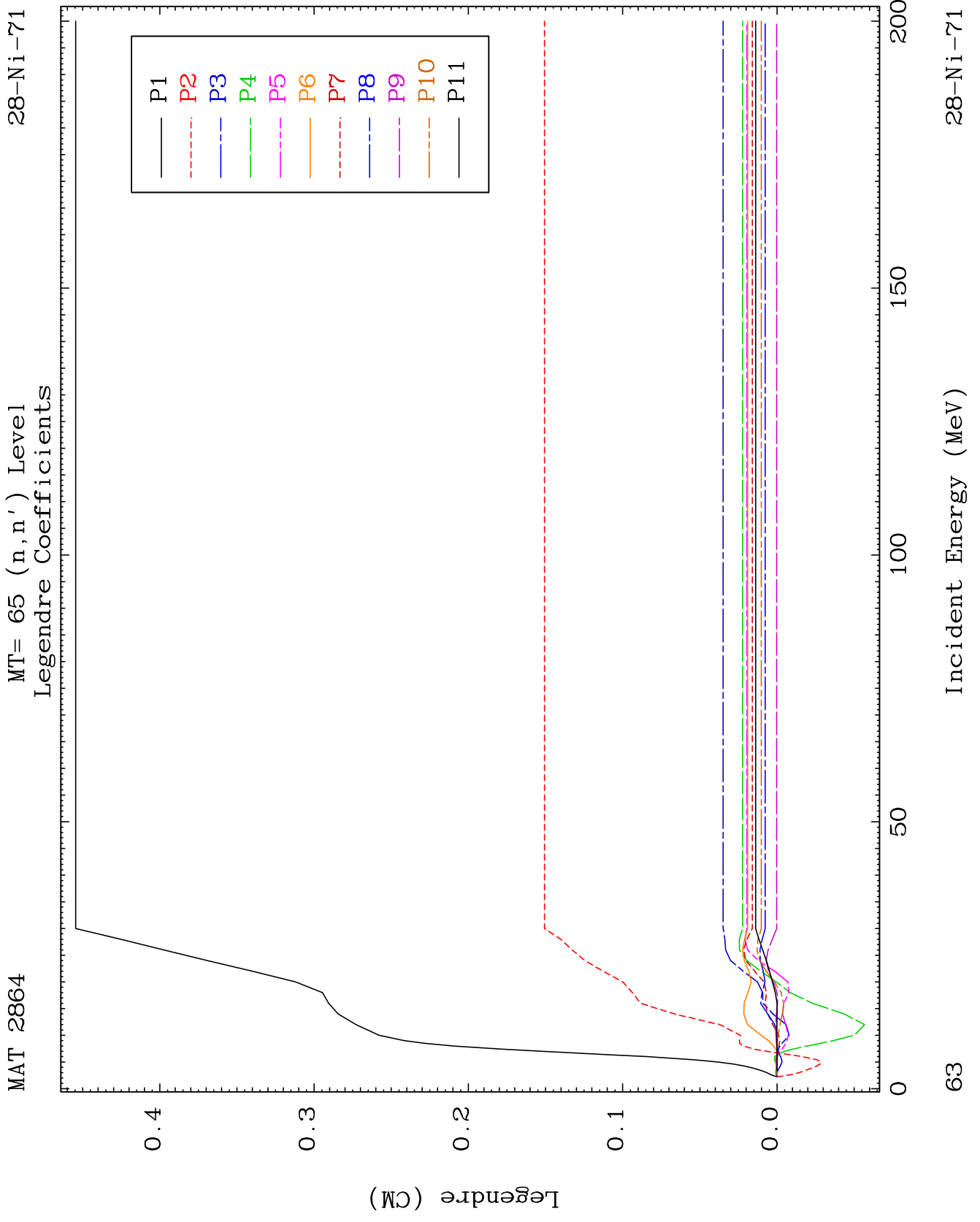
28-Ni-71



62

Incident Energy (MeV)

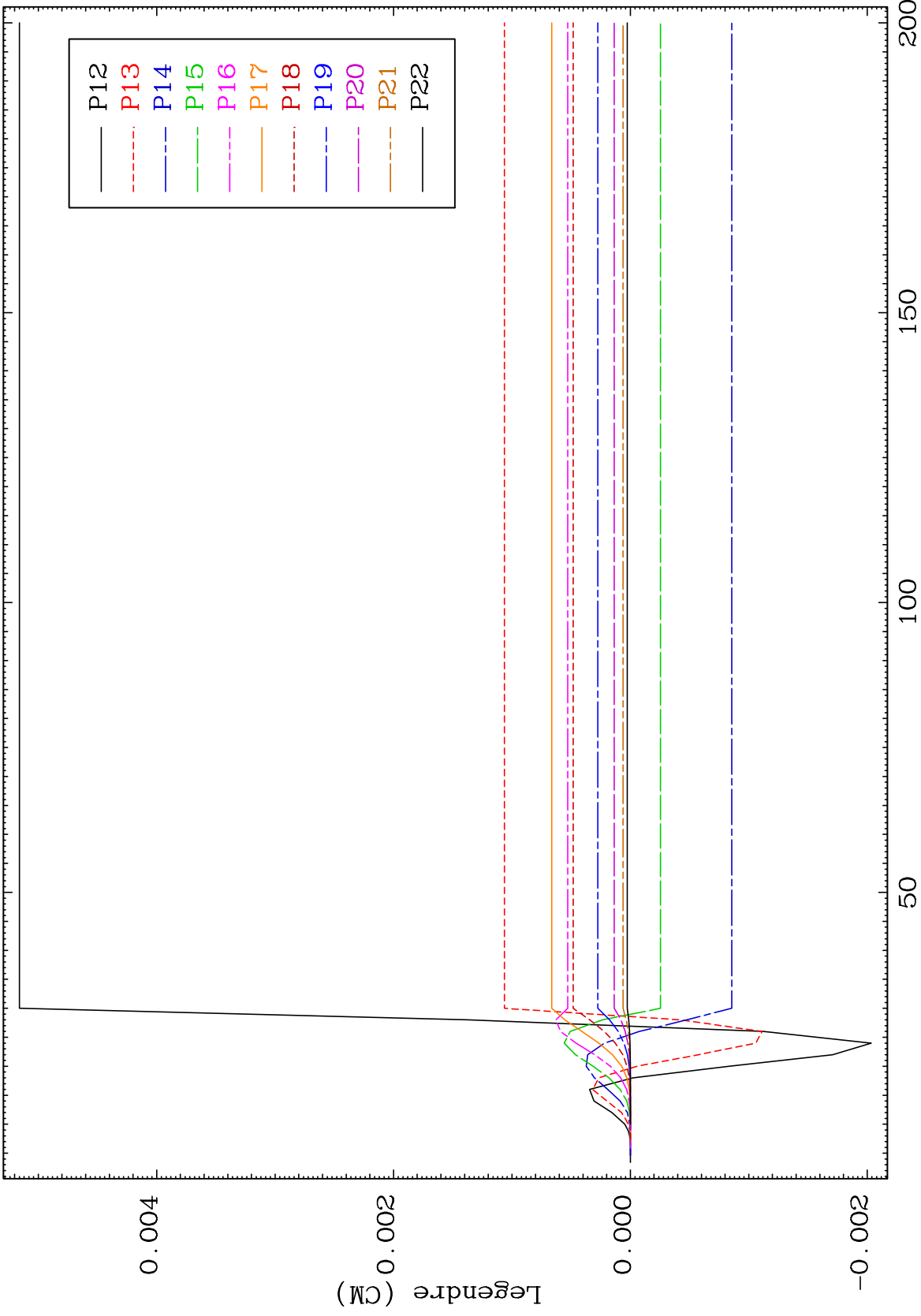
28-Ni-71



MAT 2864

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

28-Ni-71



64

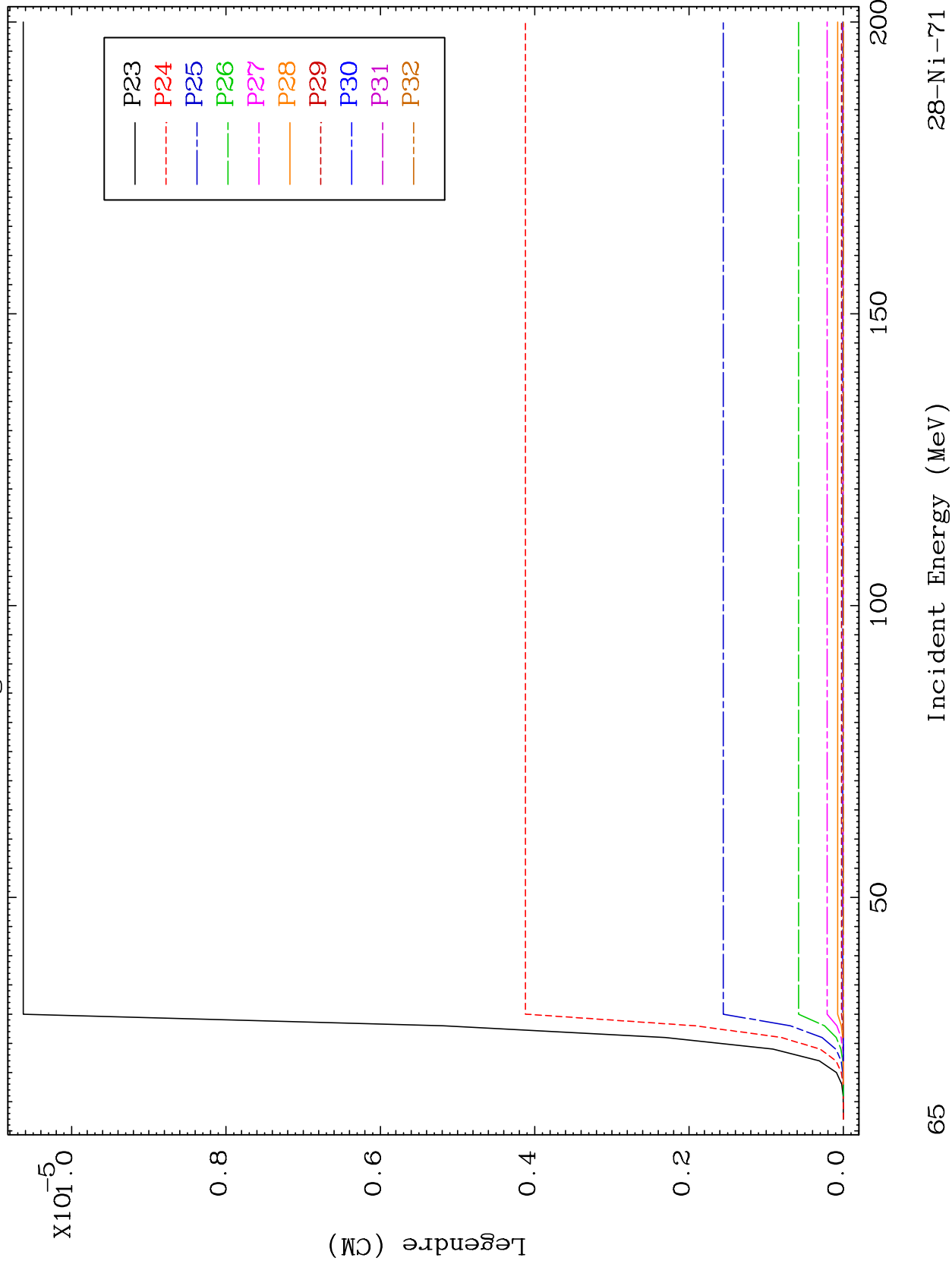
Incident Energy (MeV)

28-Ni-71

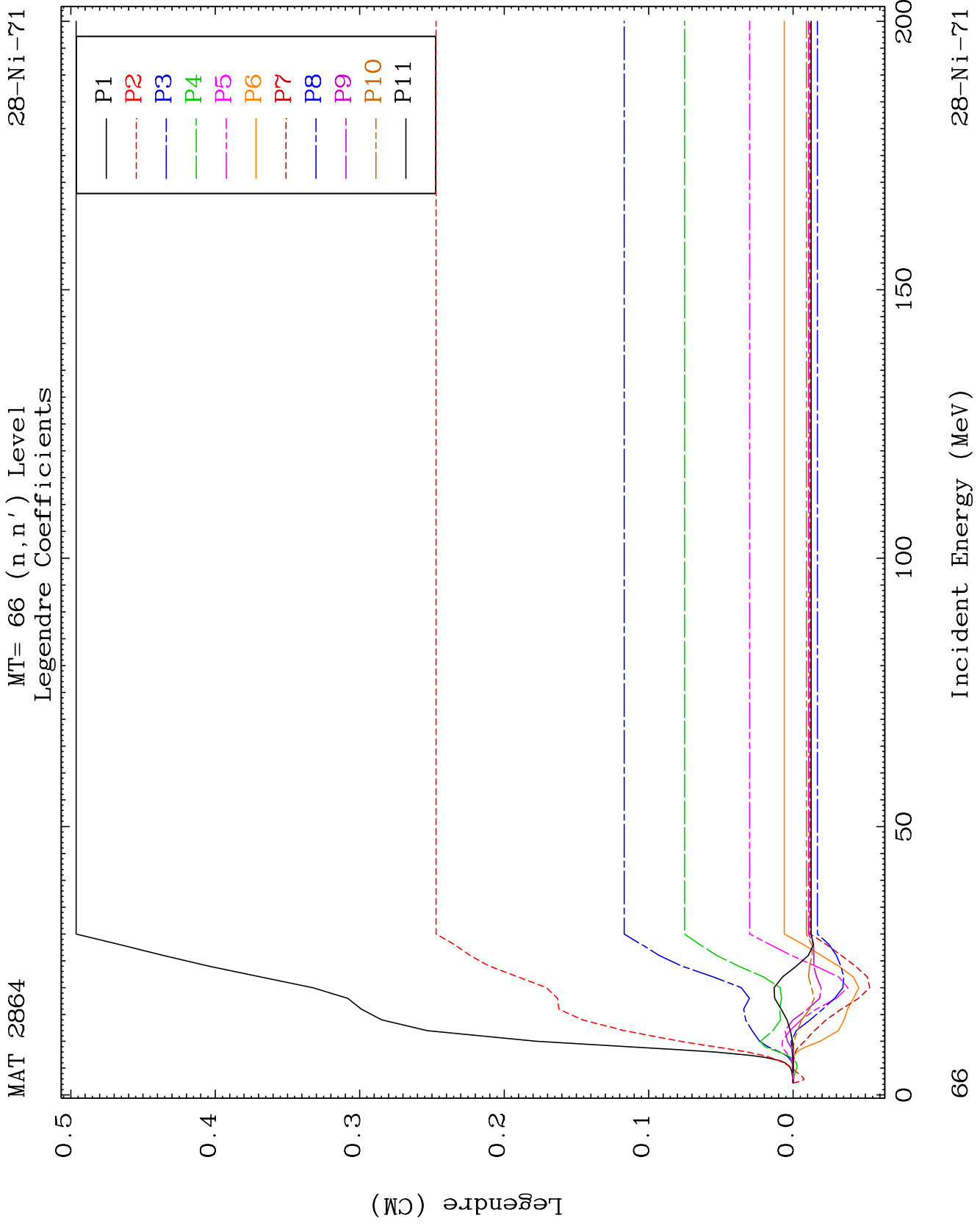
MAT 2864

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

28-Ni-71



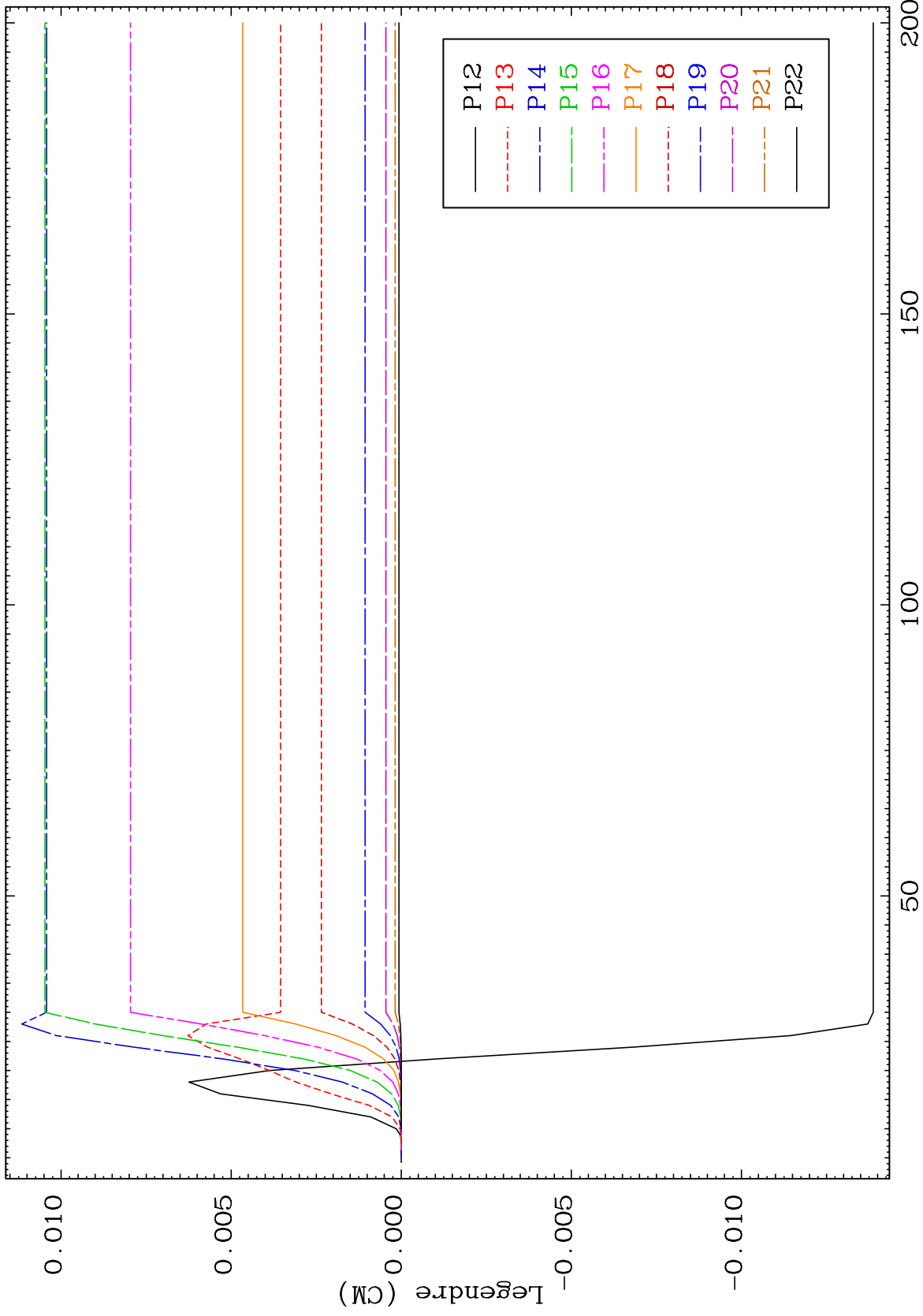
65



MAT 2864

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

28-Ni-71



67

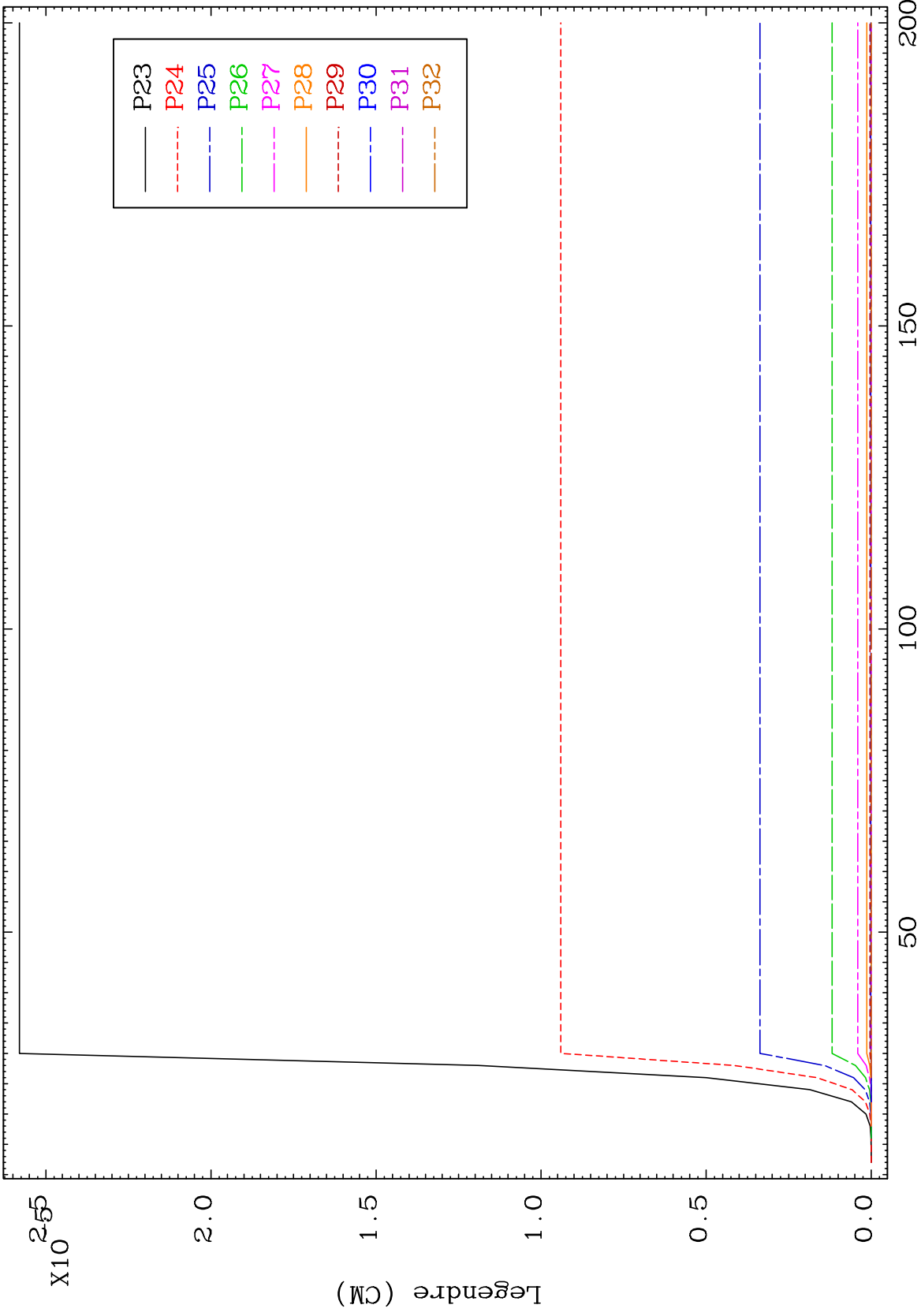
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

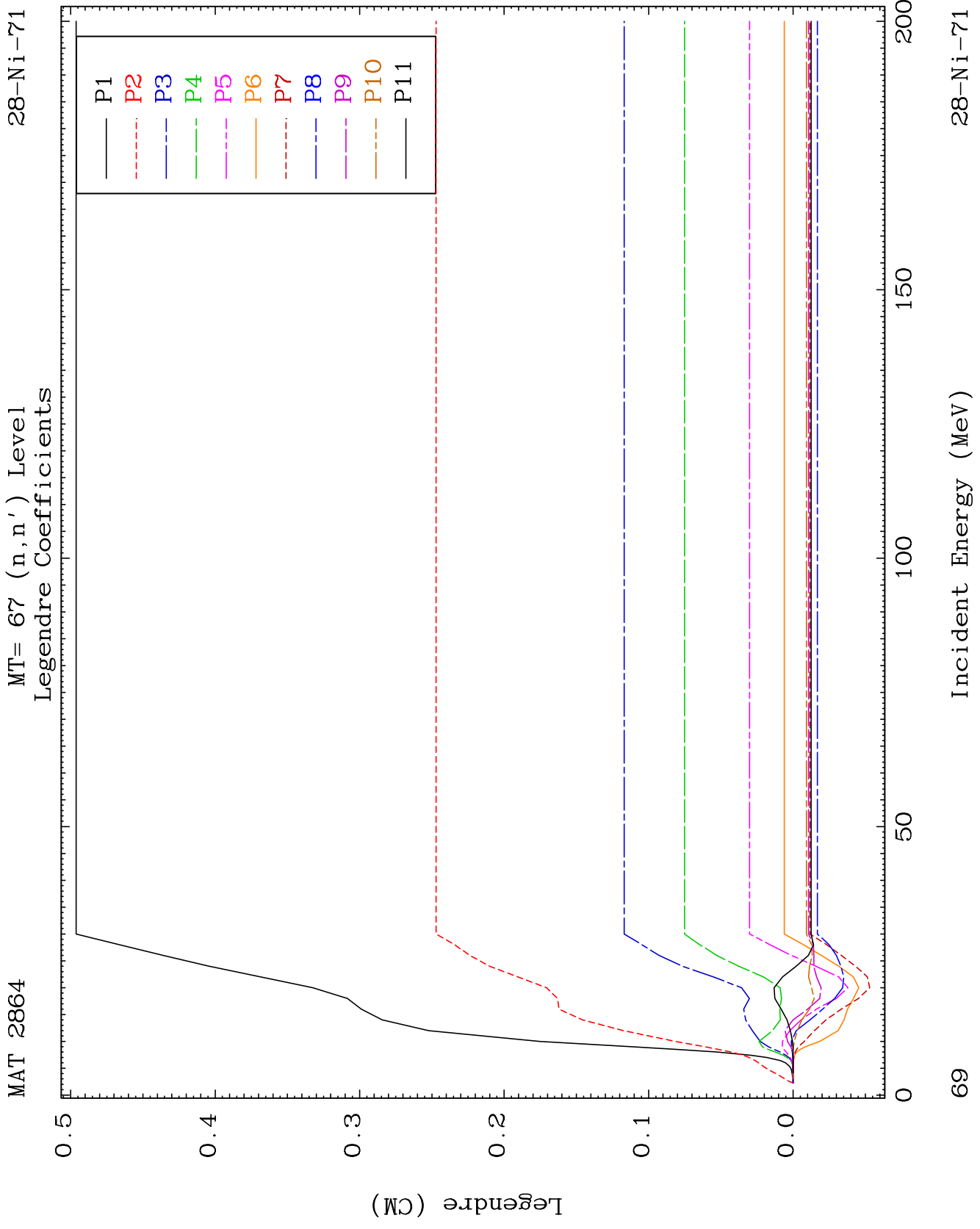
28-Ni-71



68

Incident Energy (MeV)

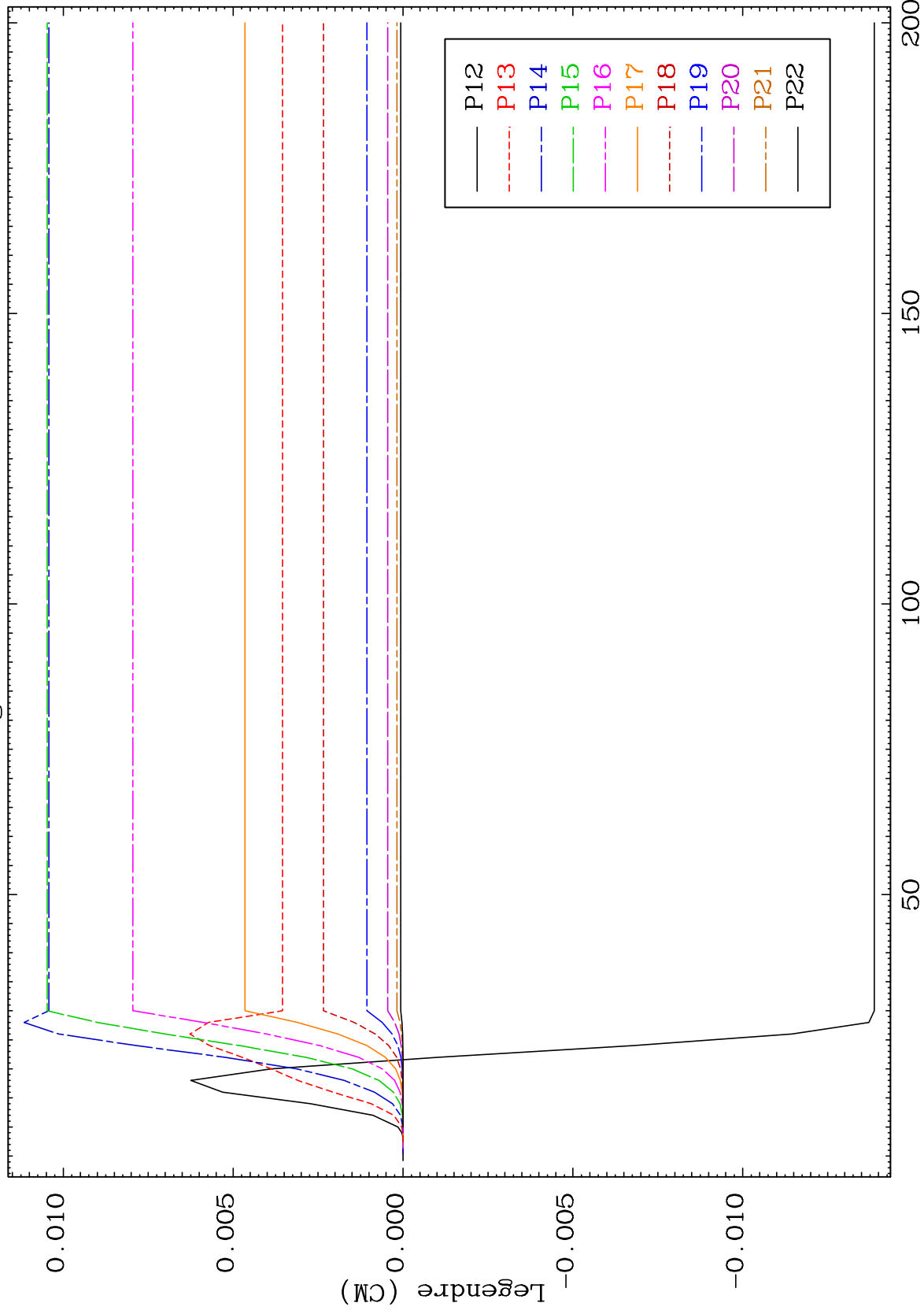
28-Ni-71



MAT 2864

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

28-Ni-71



70

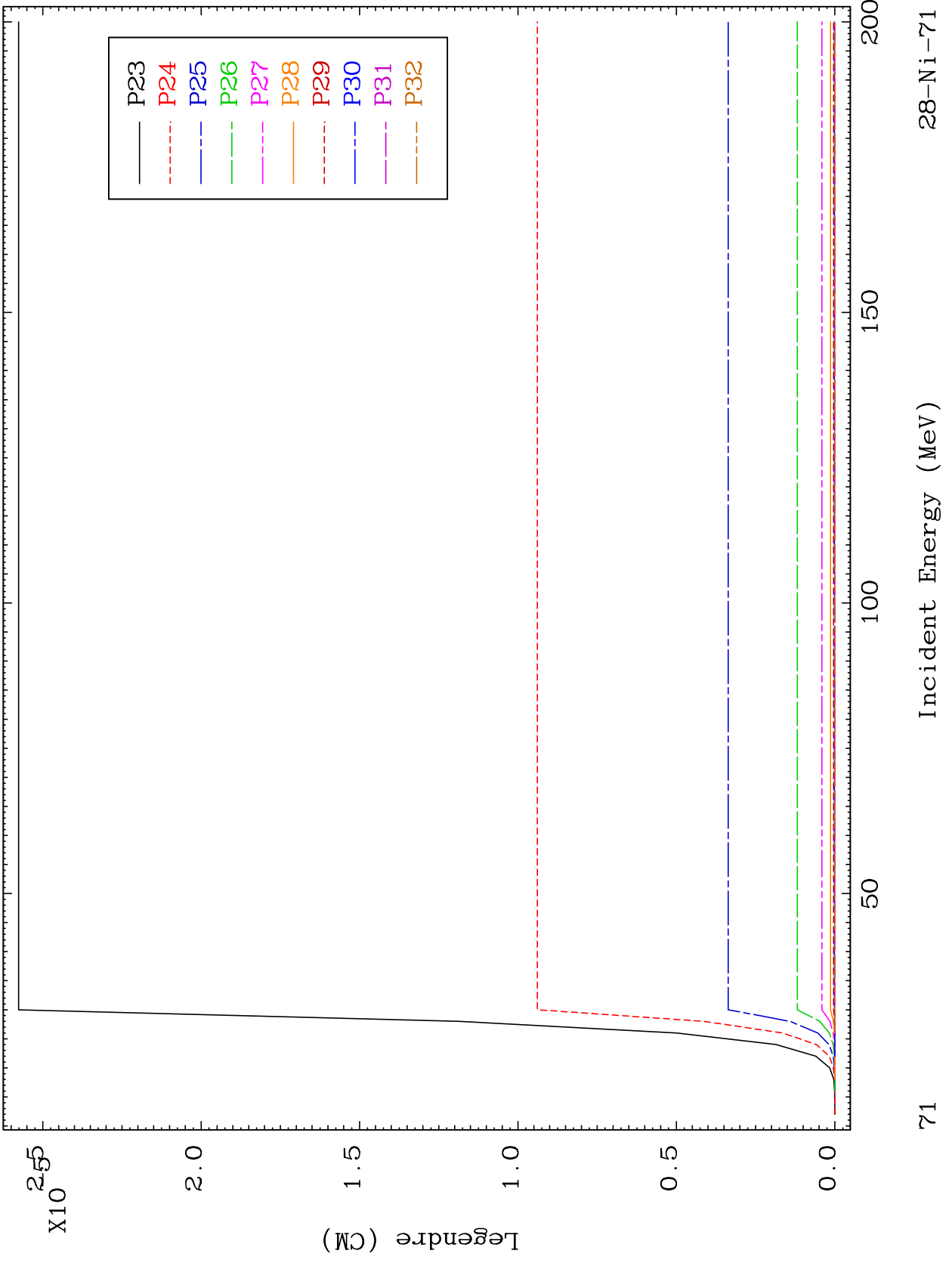
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

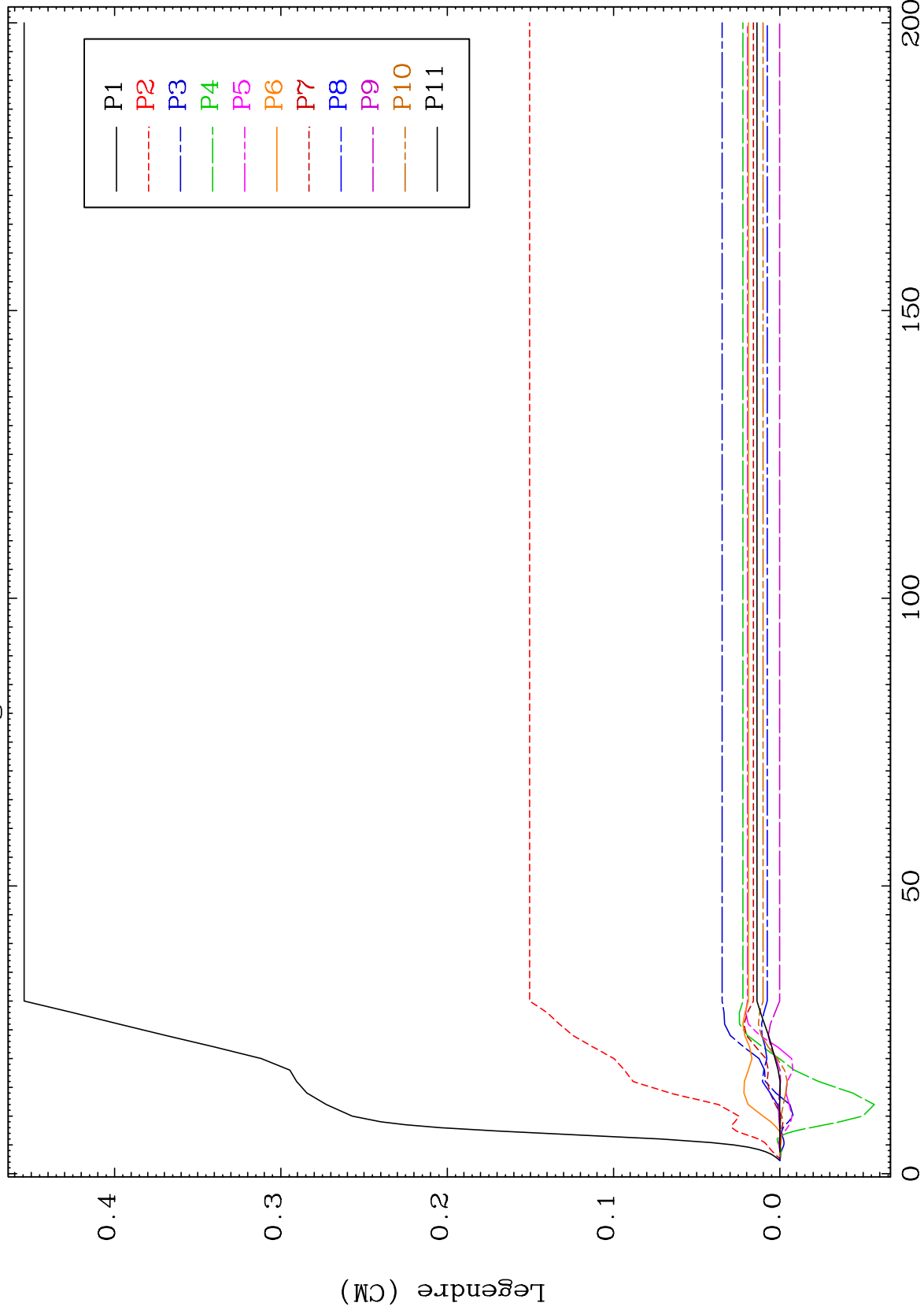
28-Ni-71



MAT 2864

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

28-Ni-71



72

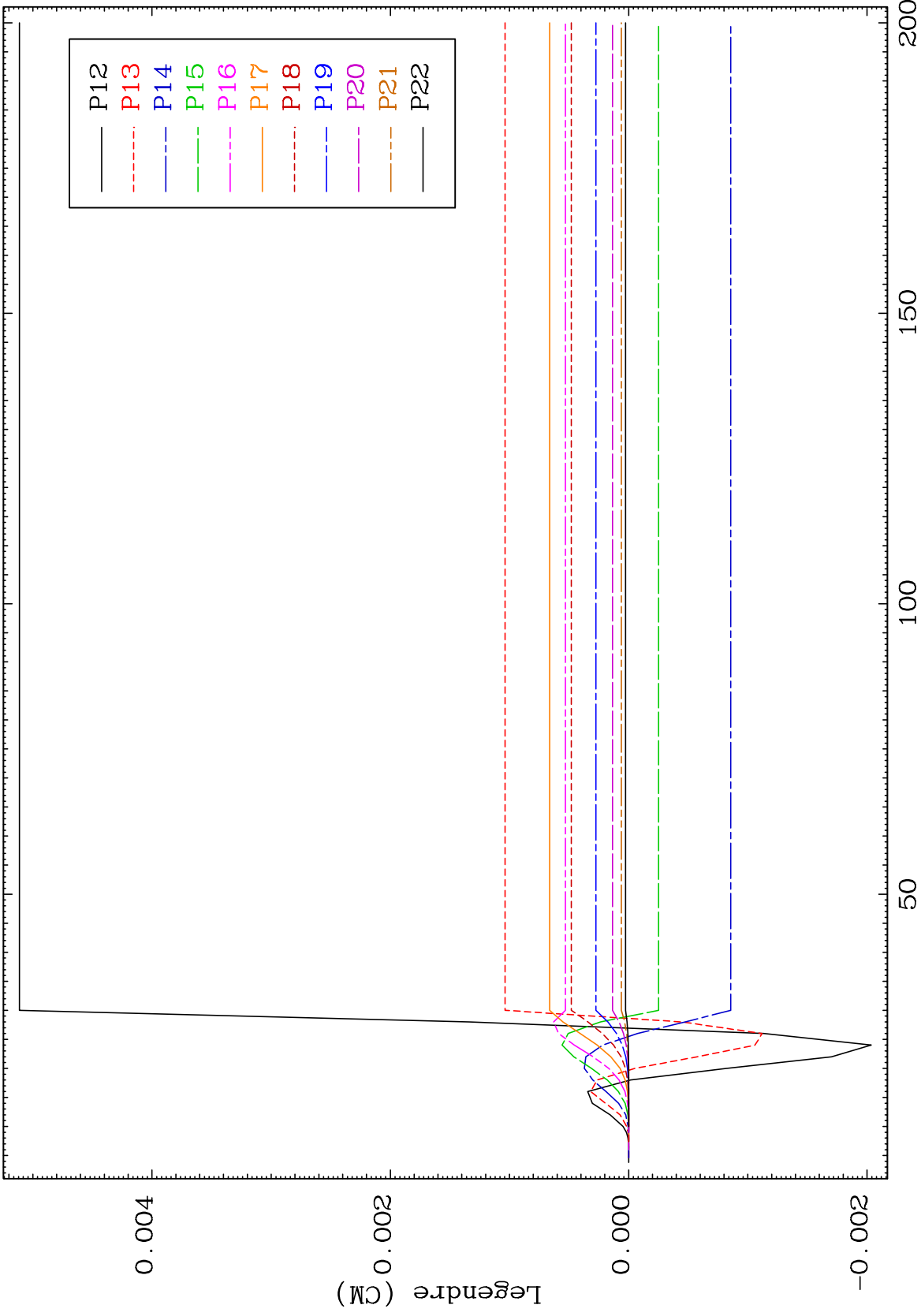
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



73

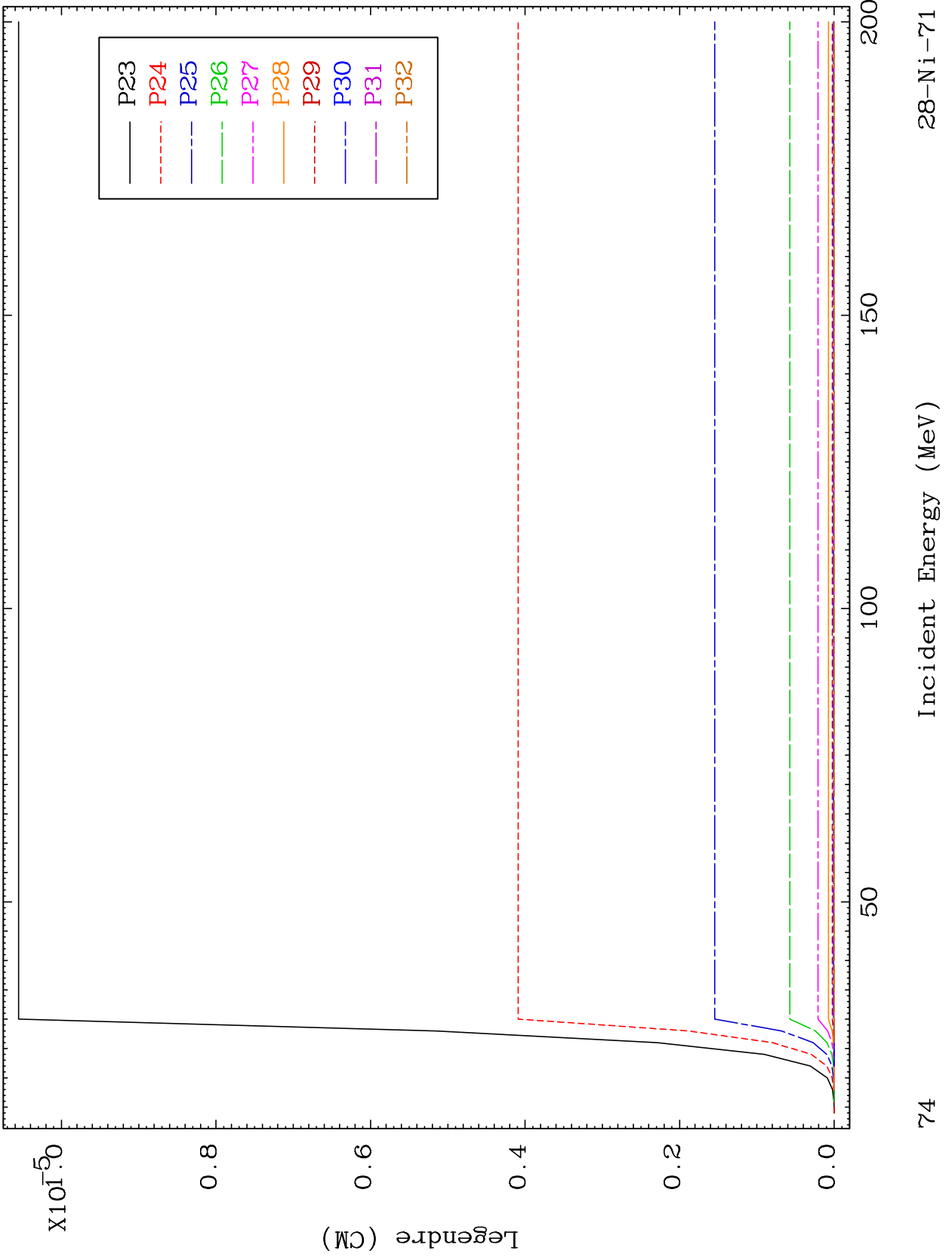
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



74

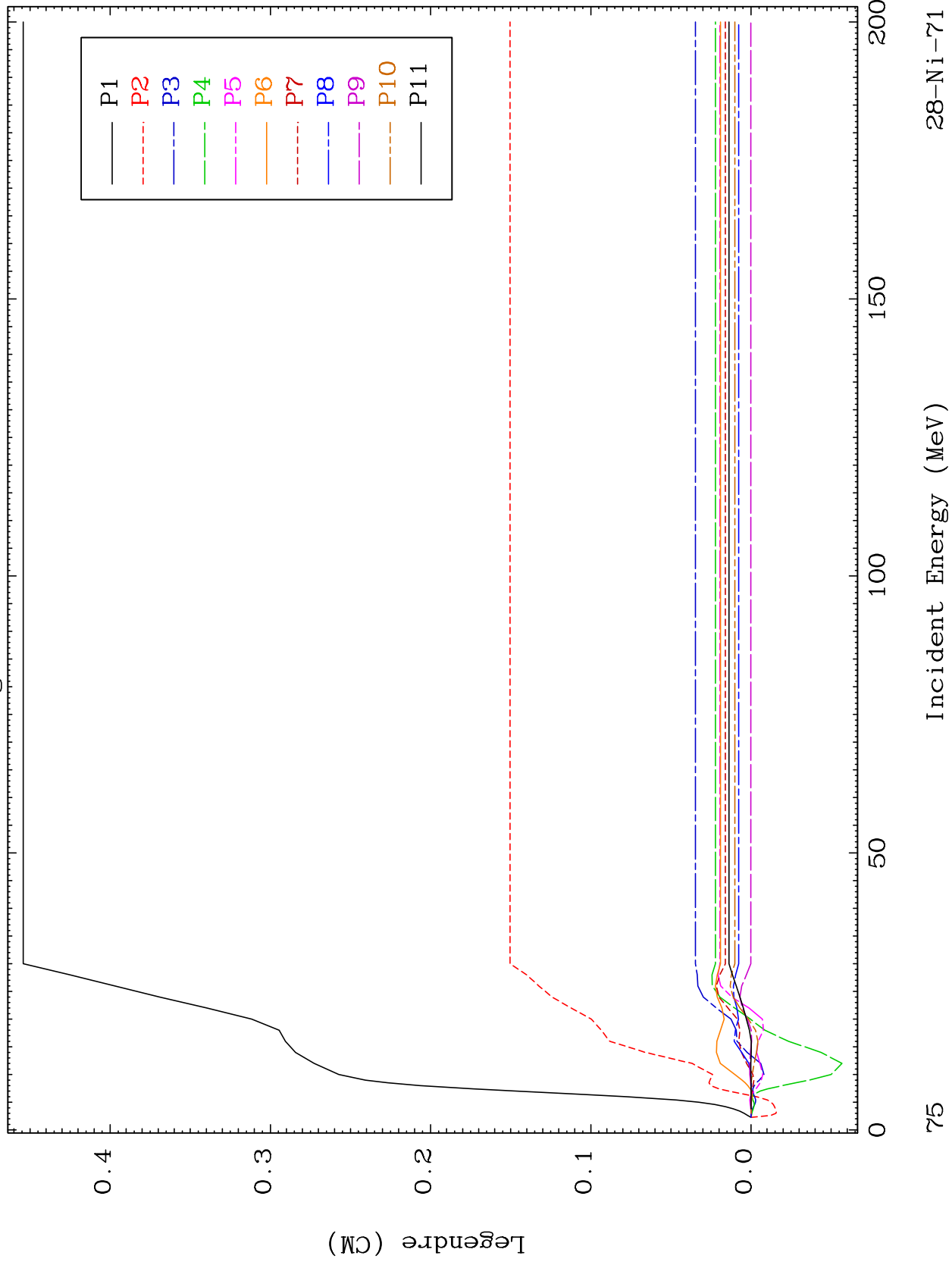
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



28-Ni-71

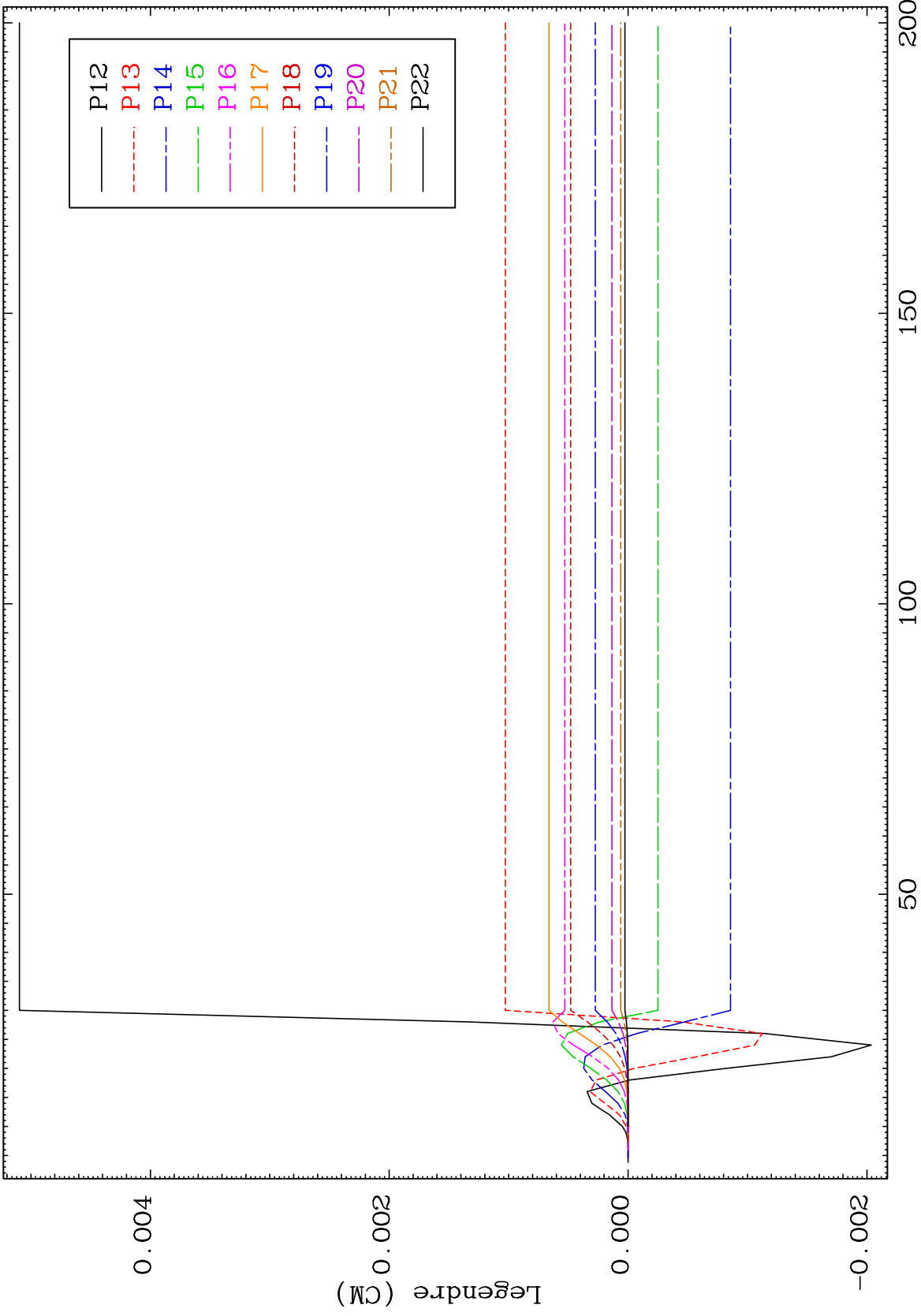
Incident Energy (MeV)

75

MAT 2864

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

28-Ni-71



76

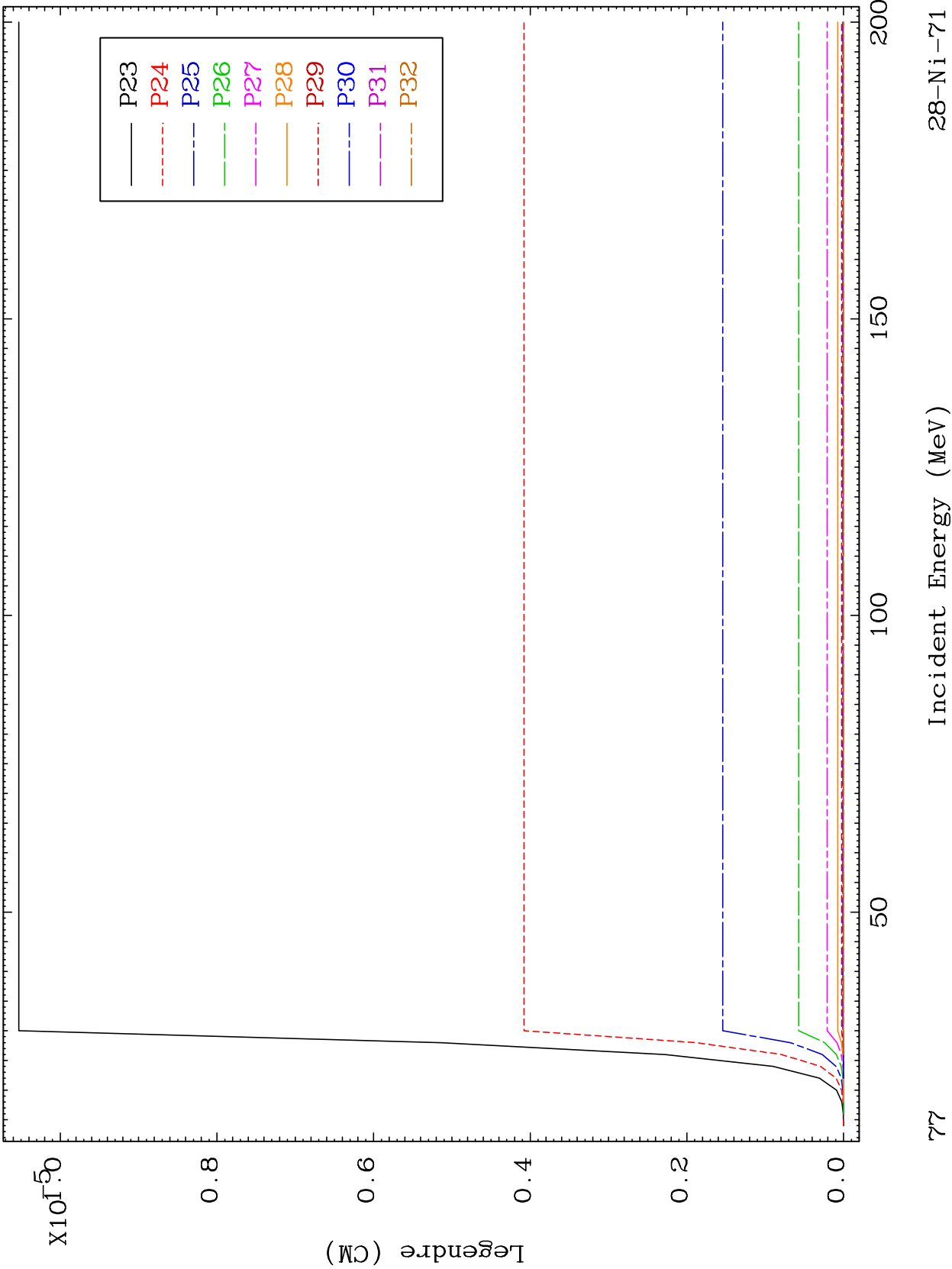
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



77

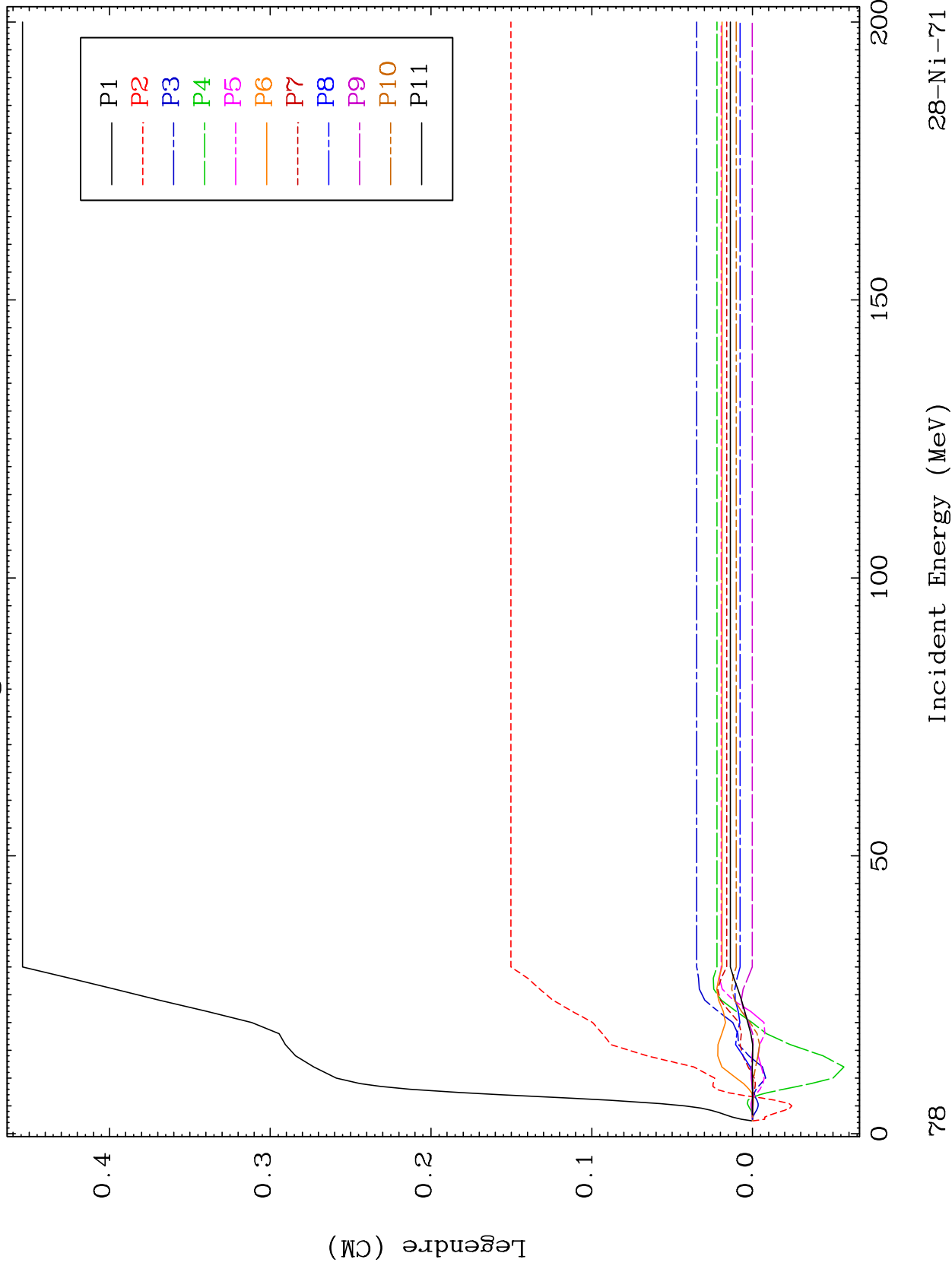
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



78

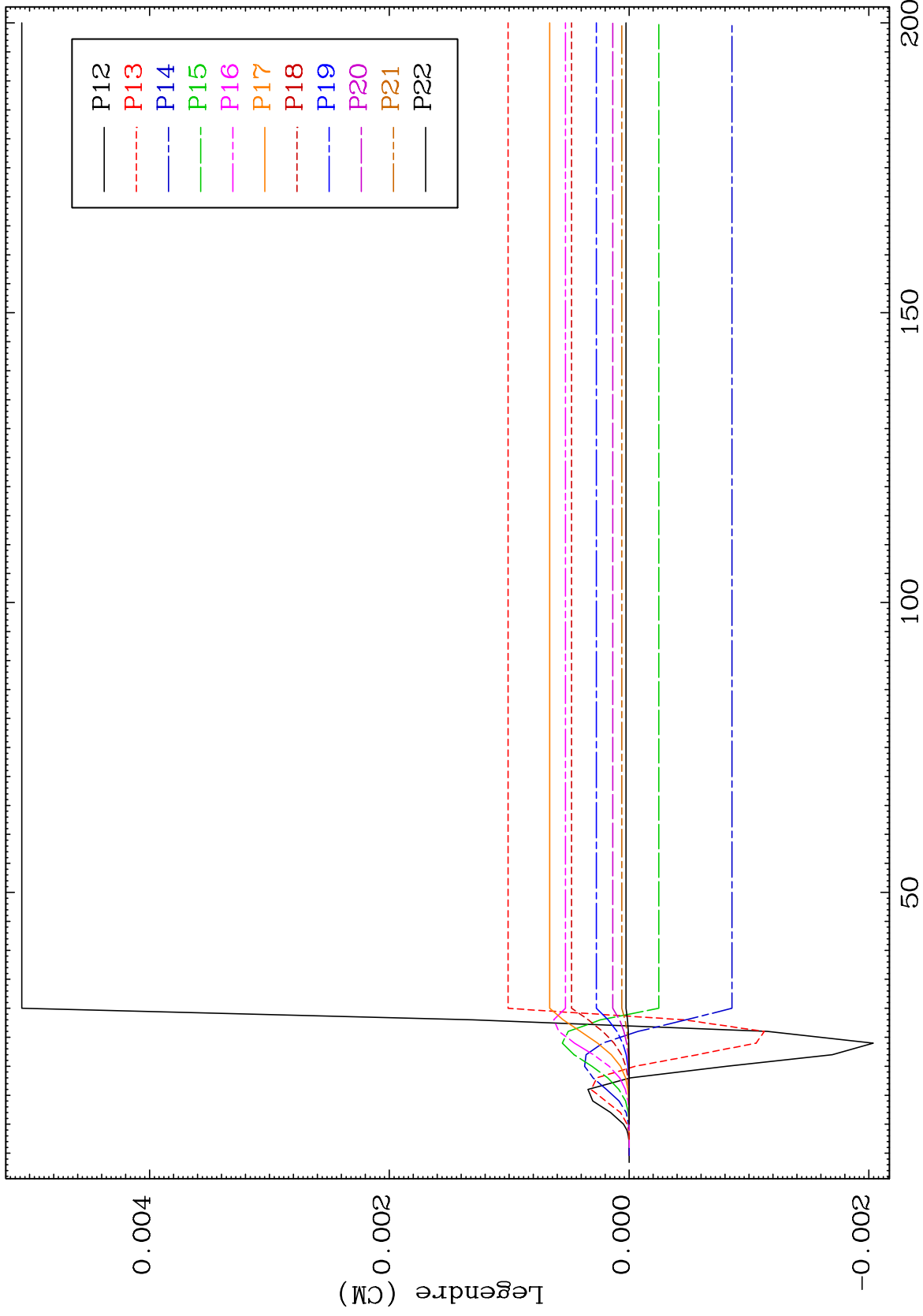
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



79

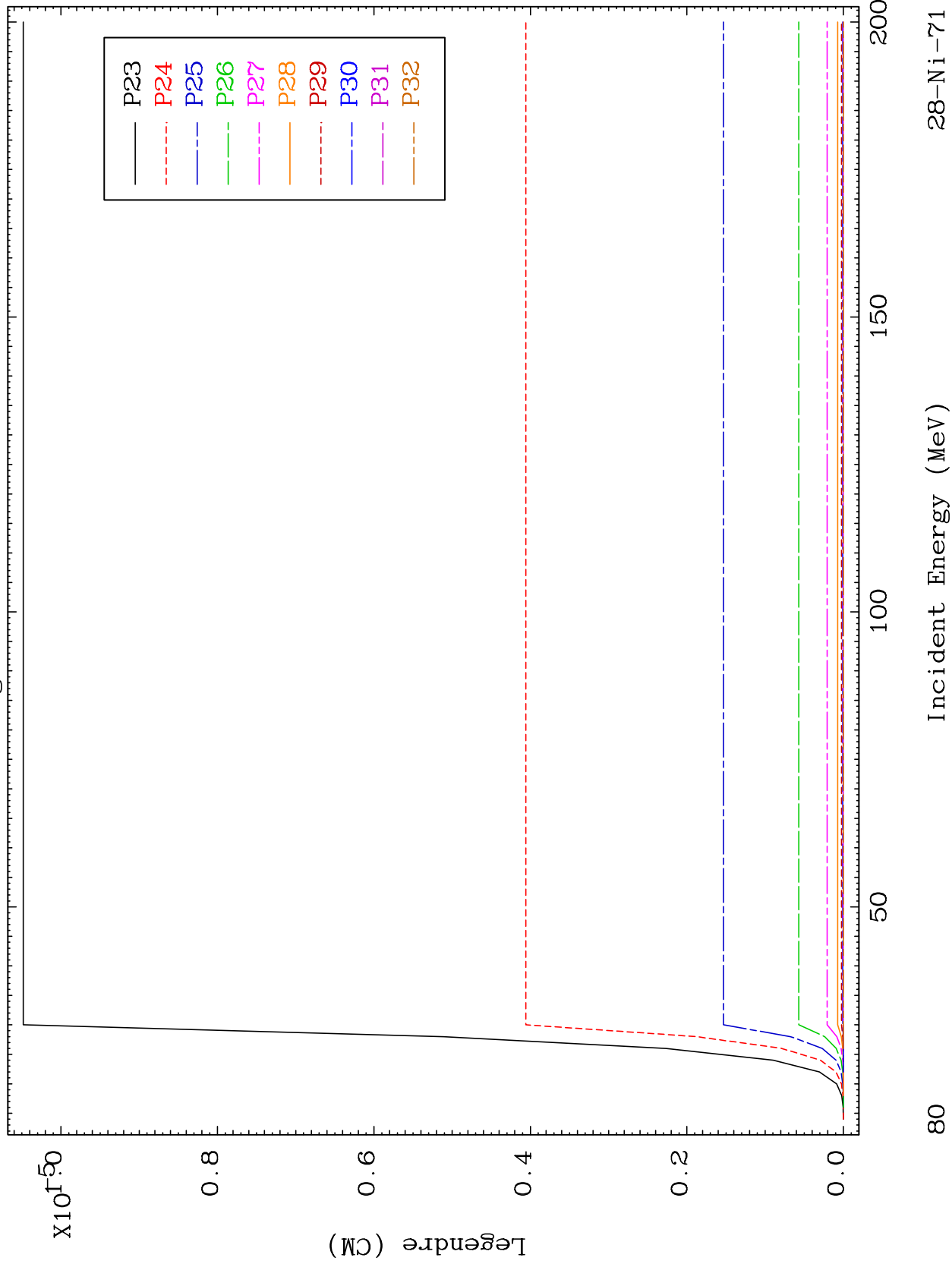
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

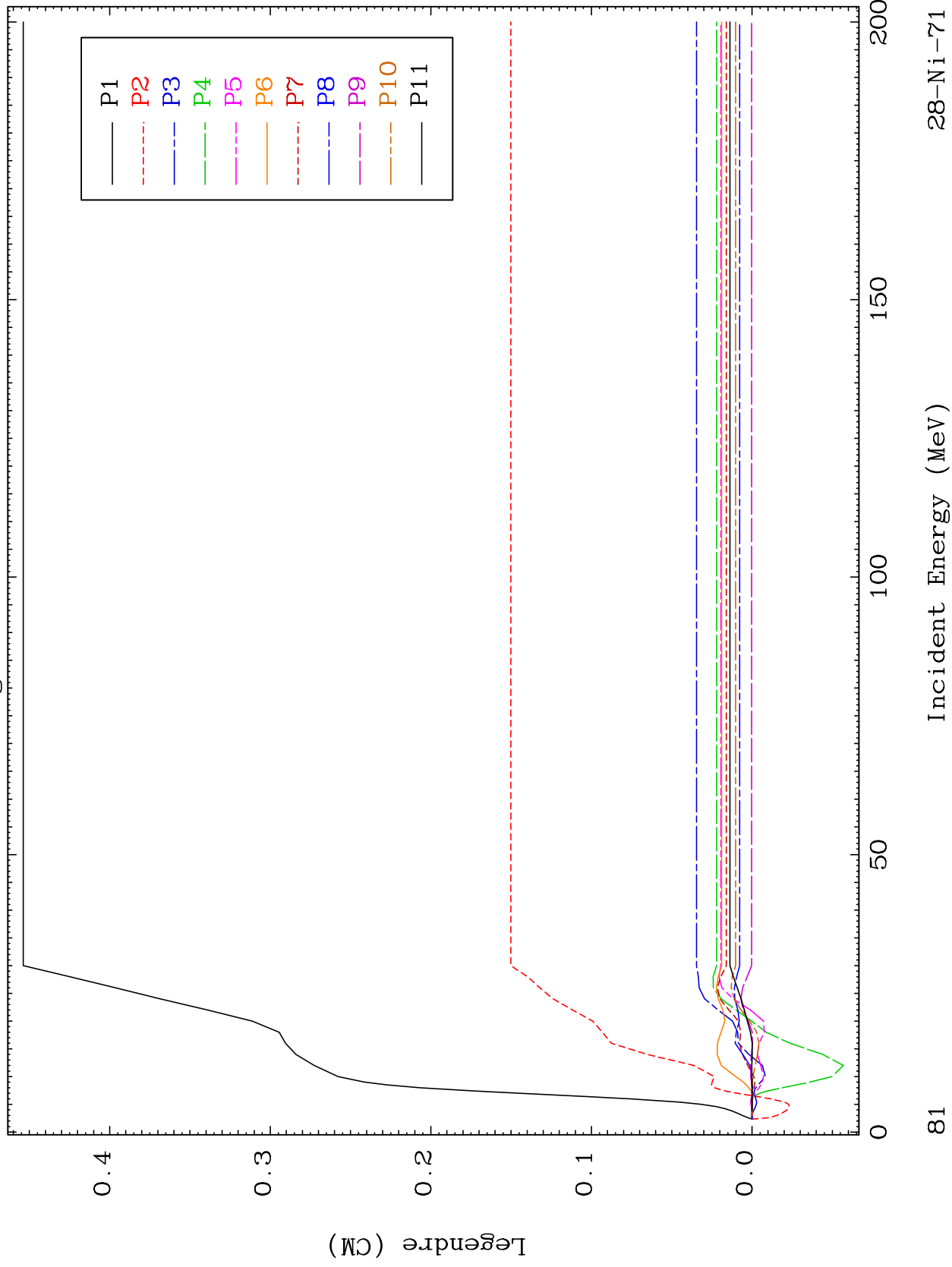
28-Ni-71



MAT 2864

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

28-Ni-71



81

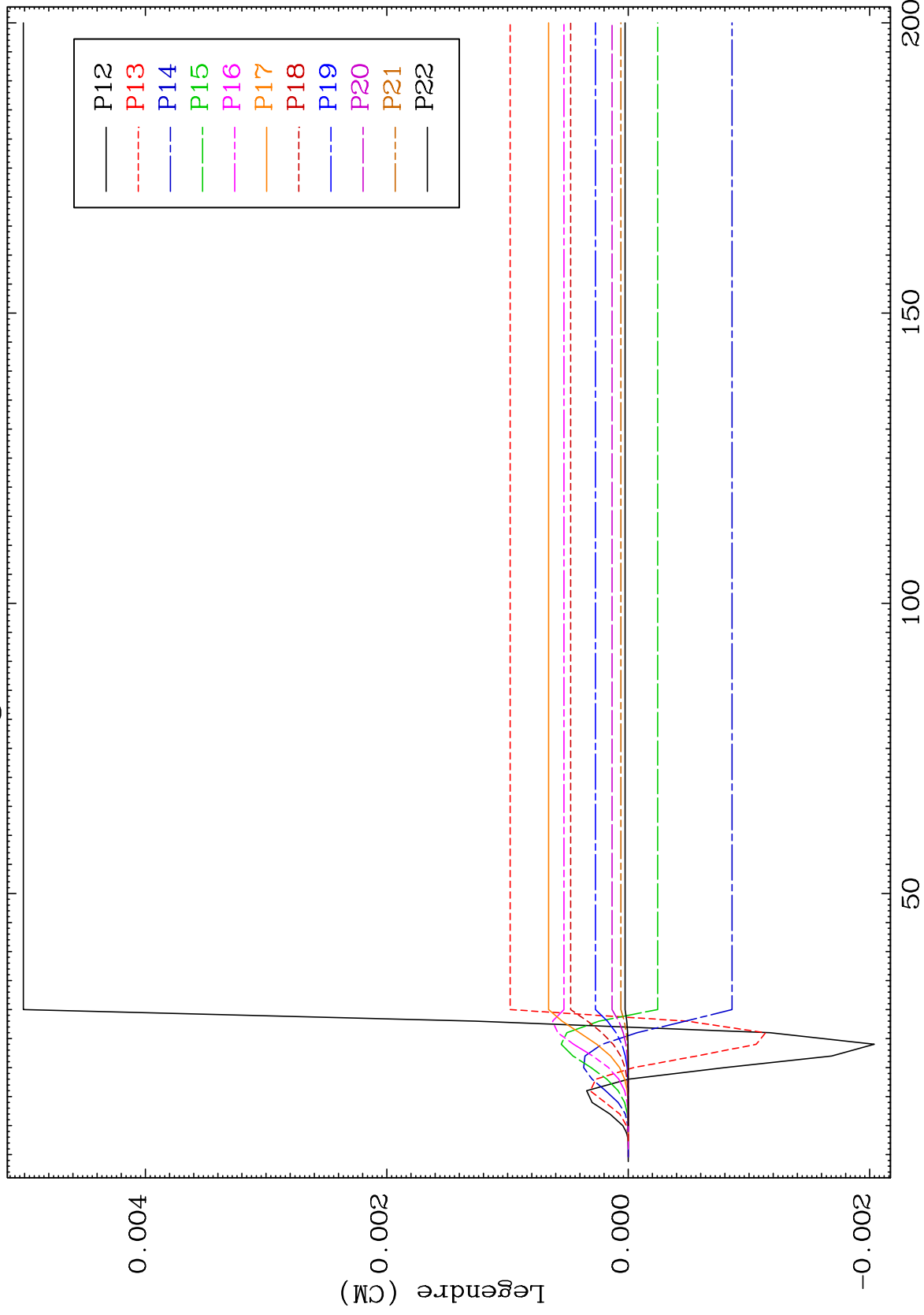
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



82

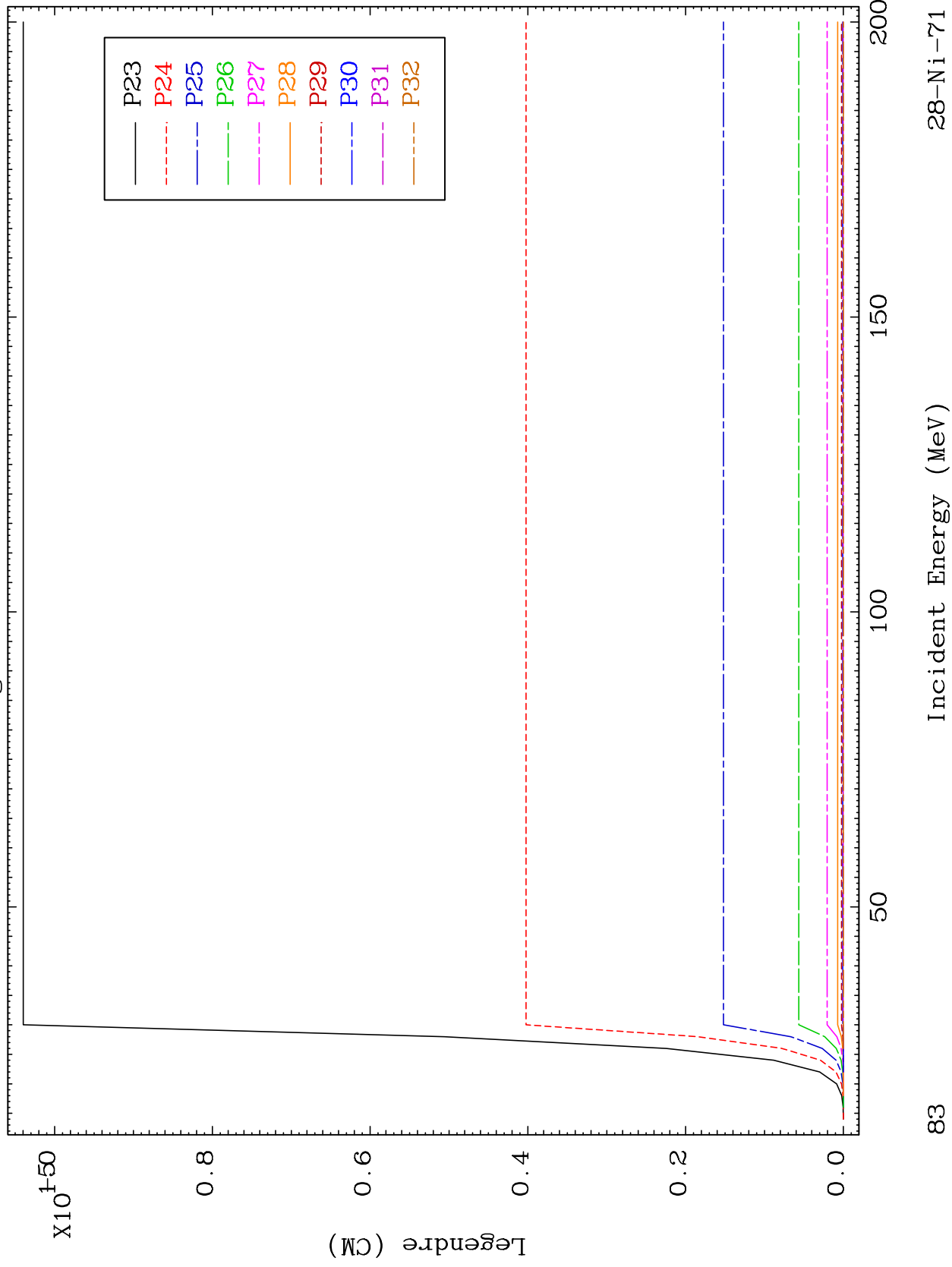
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

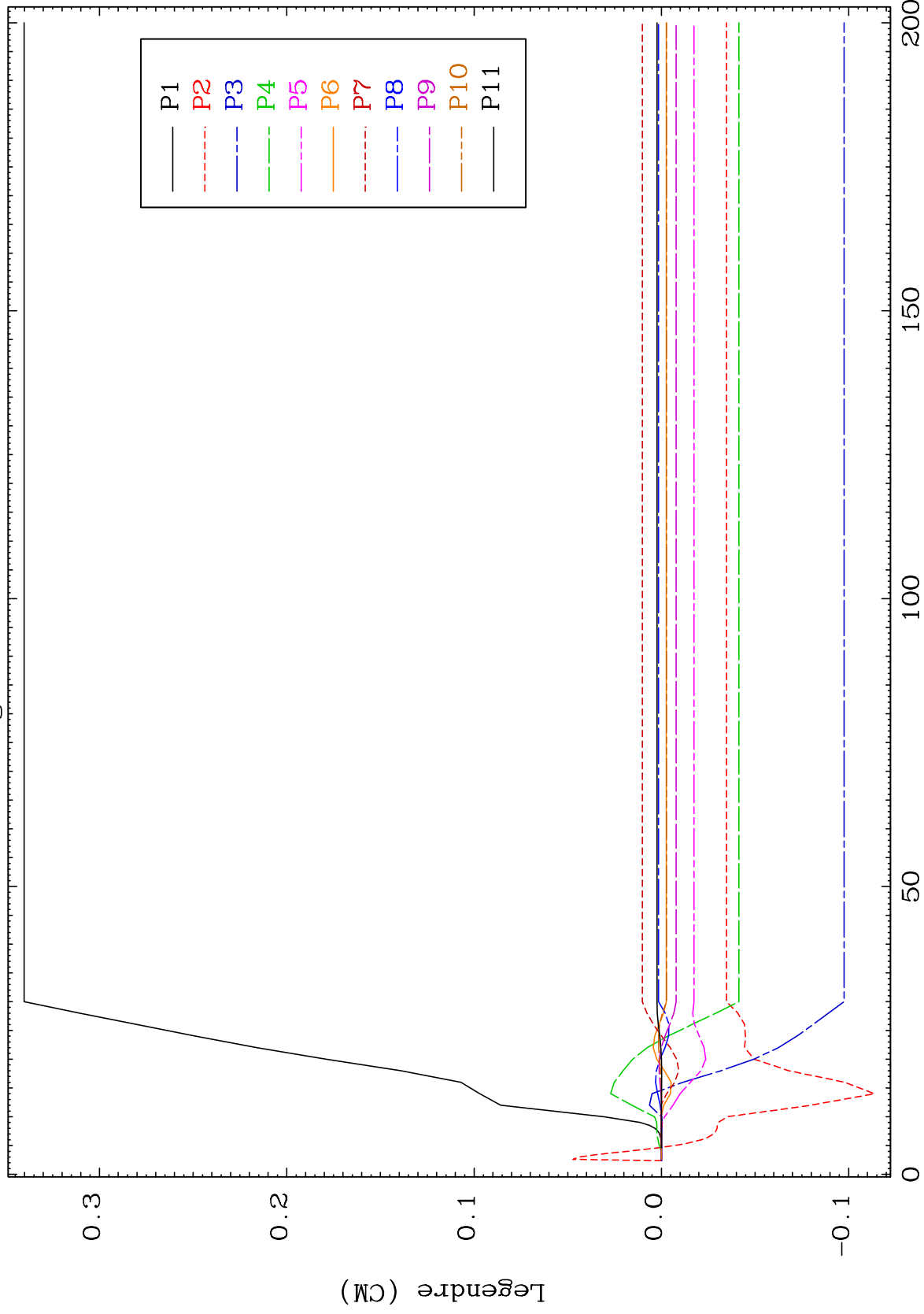
28-Ni-71



MAT 2864

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

28-Ni-71



84

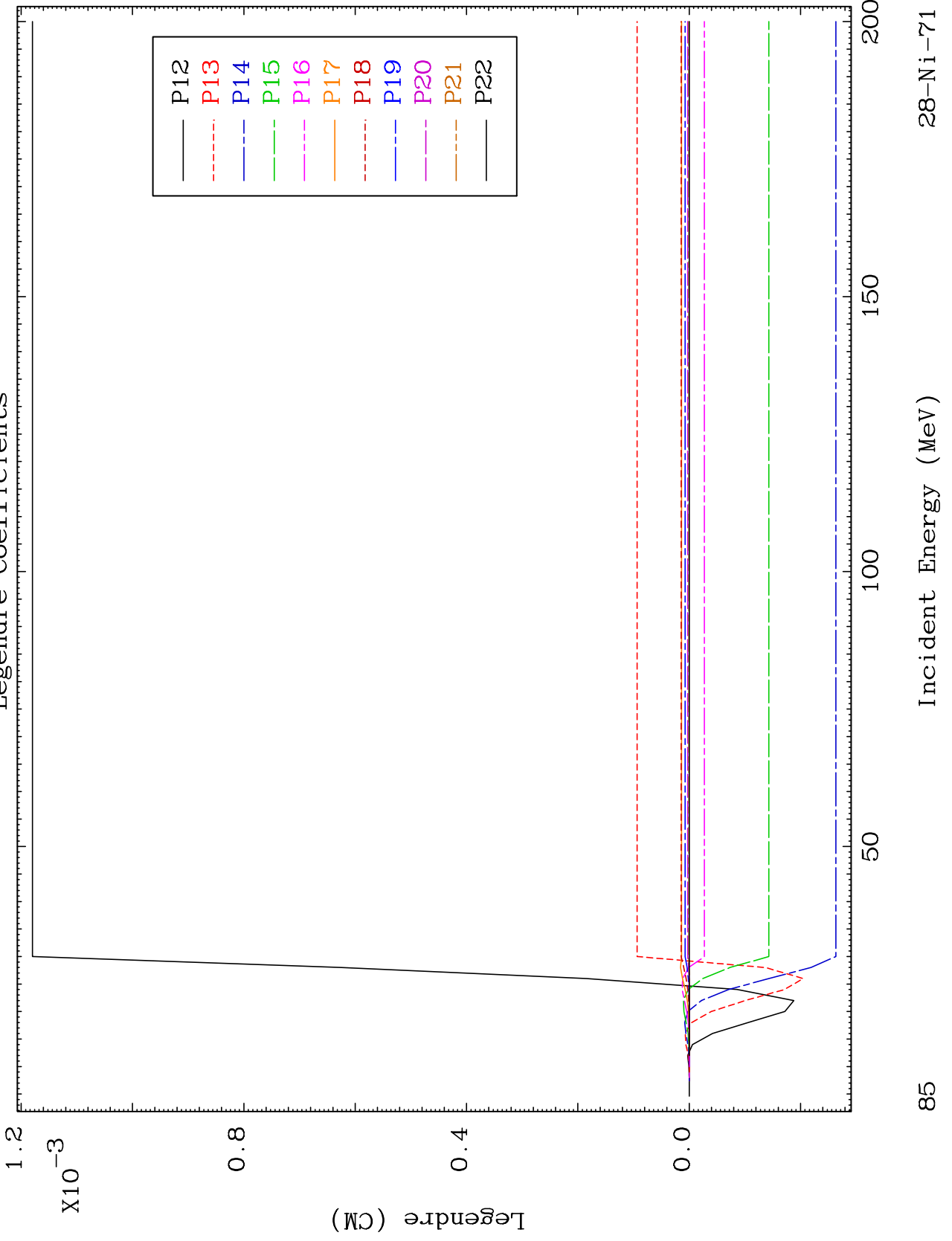
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71

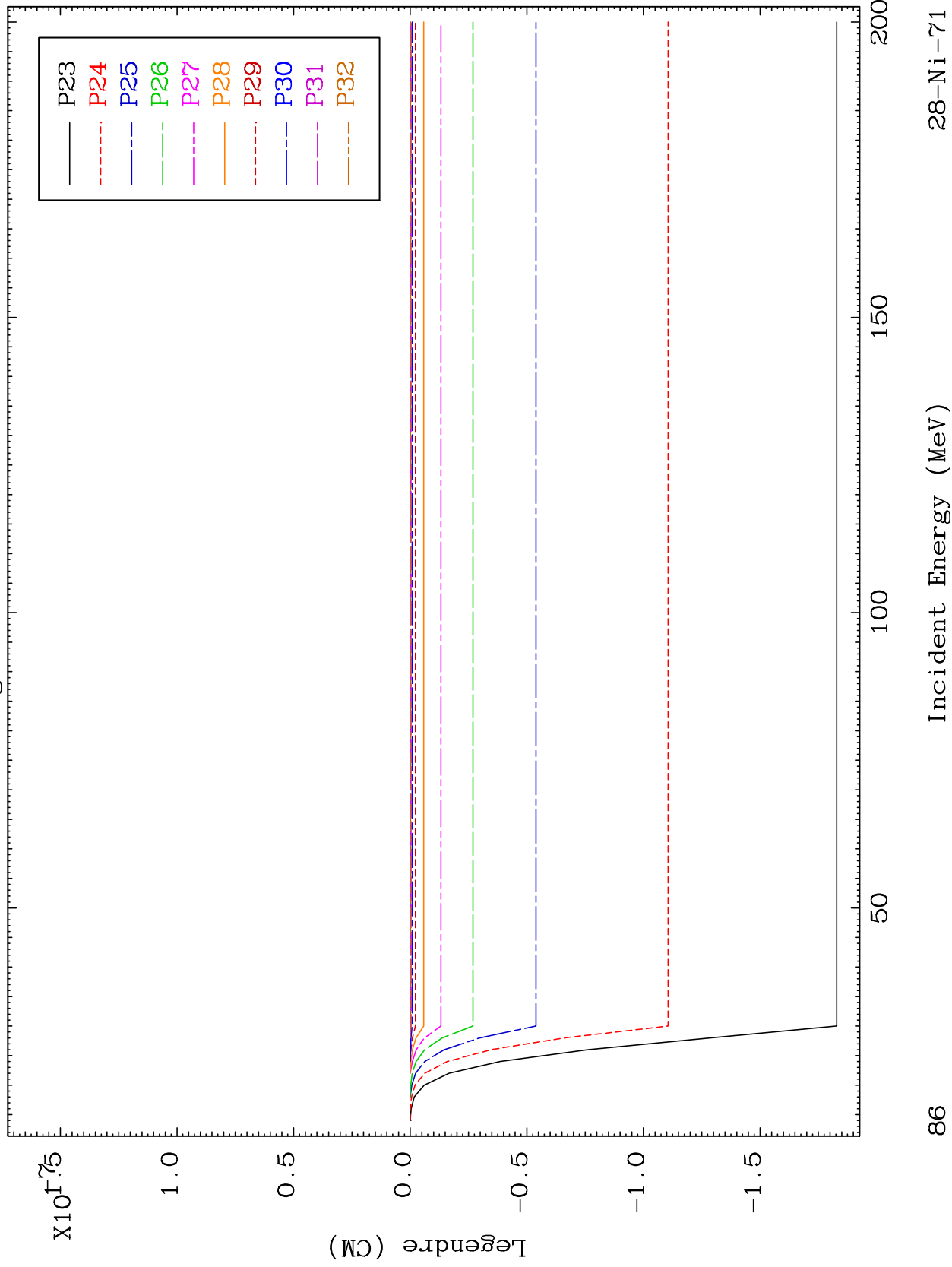


85

MAT 2864

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

28-Ni-71



86

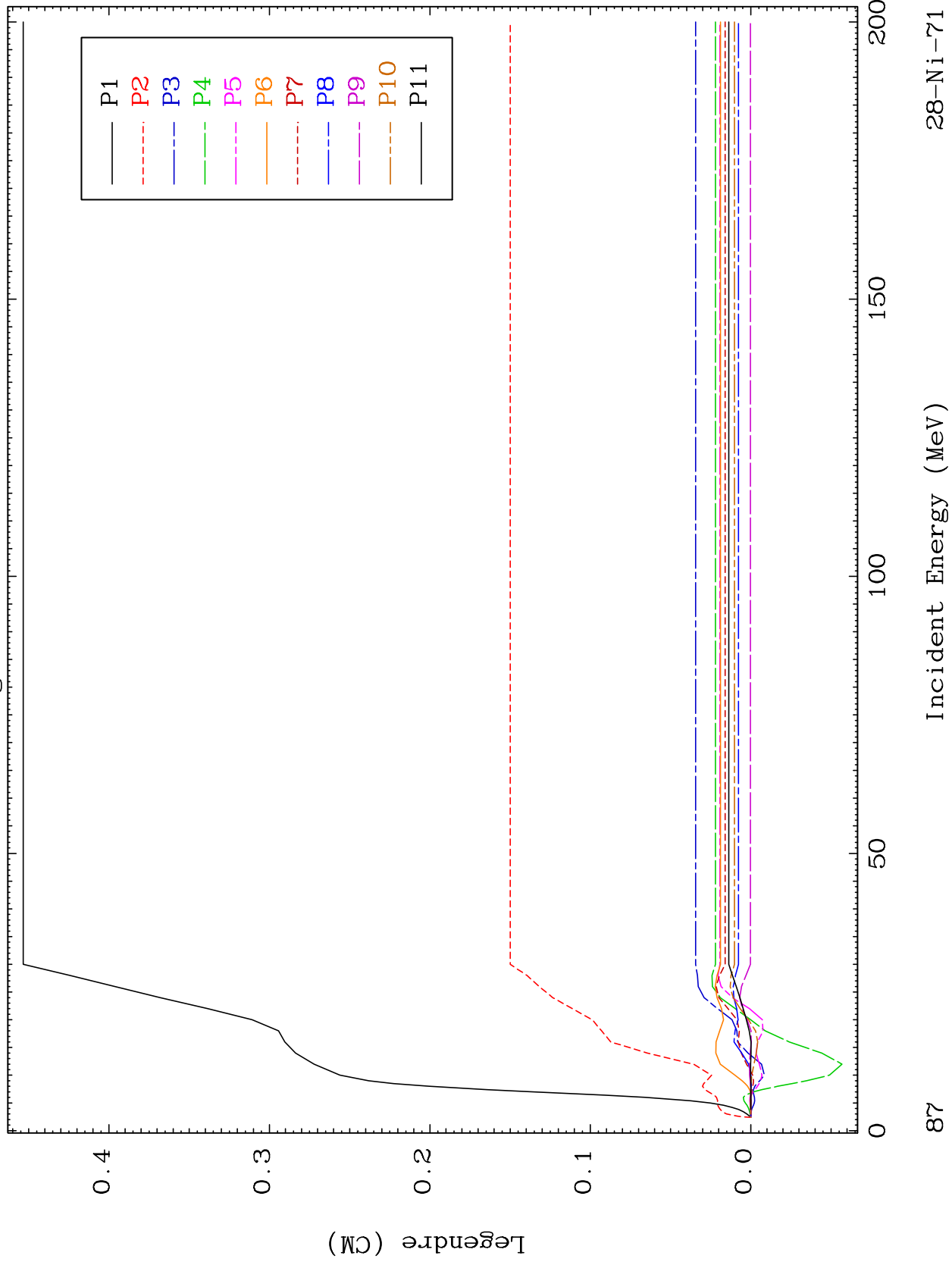
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



87

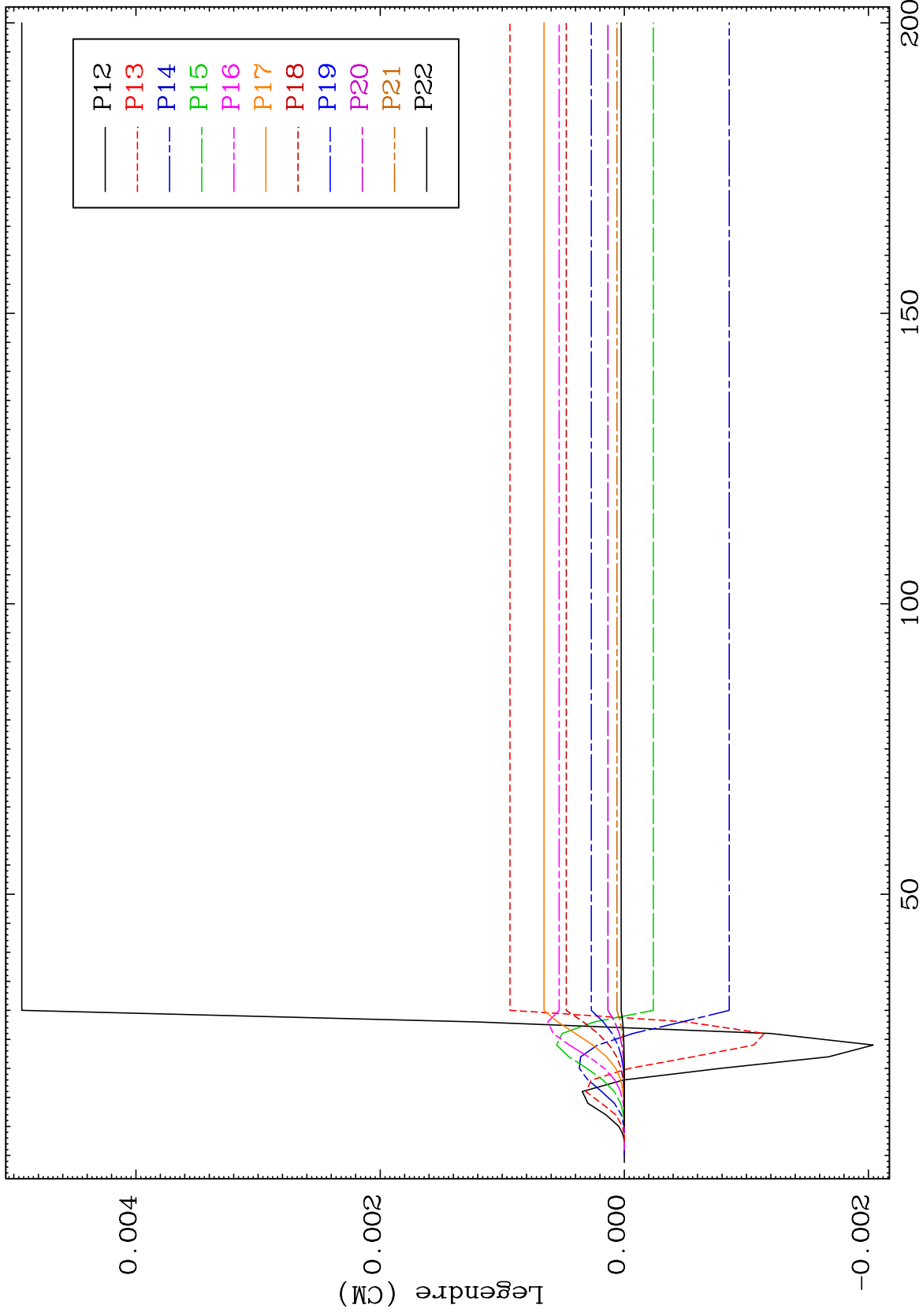
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



88

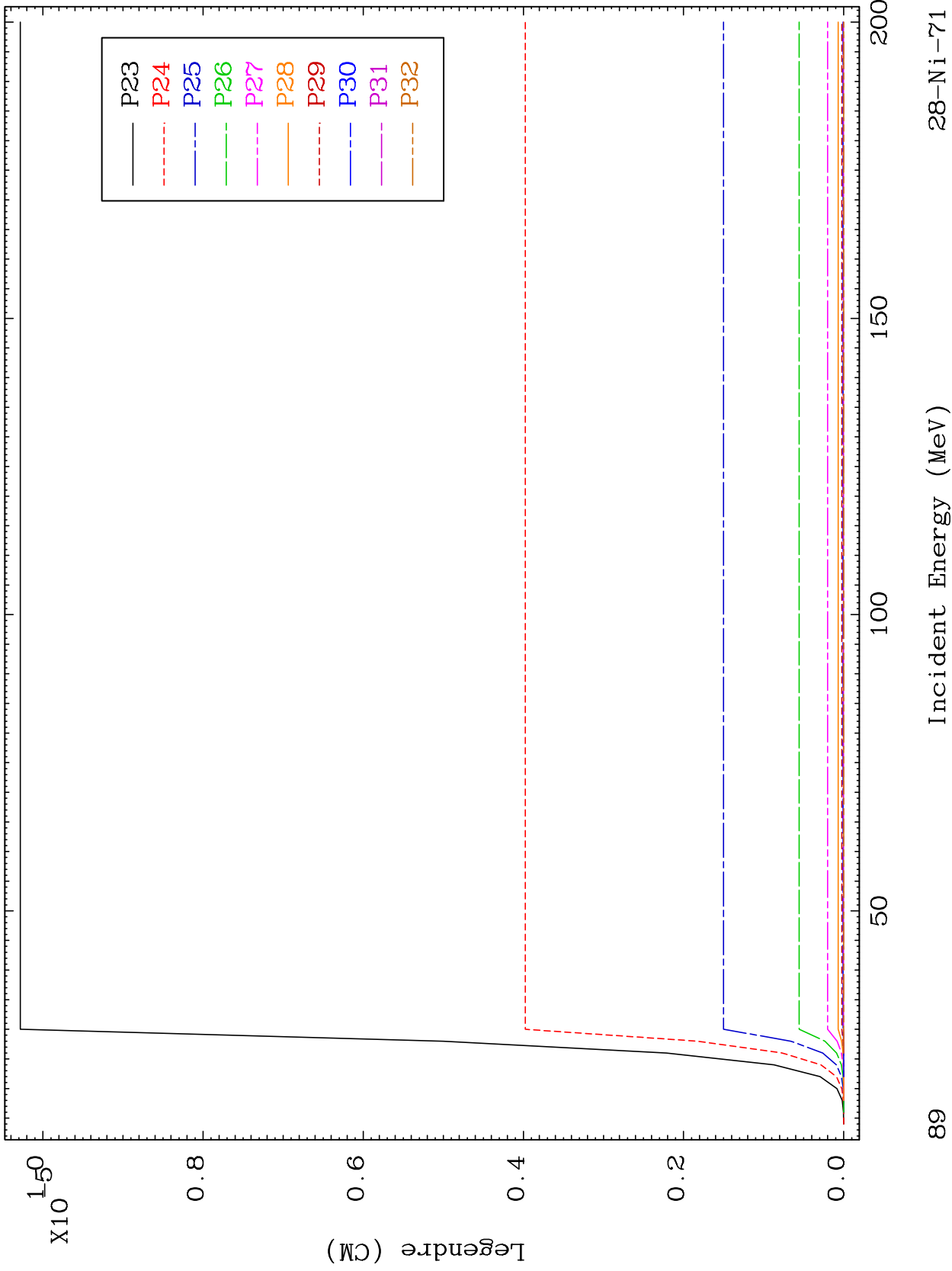
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

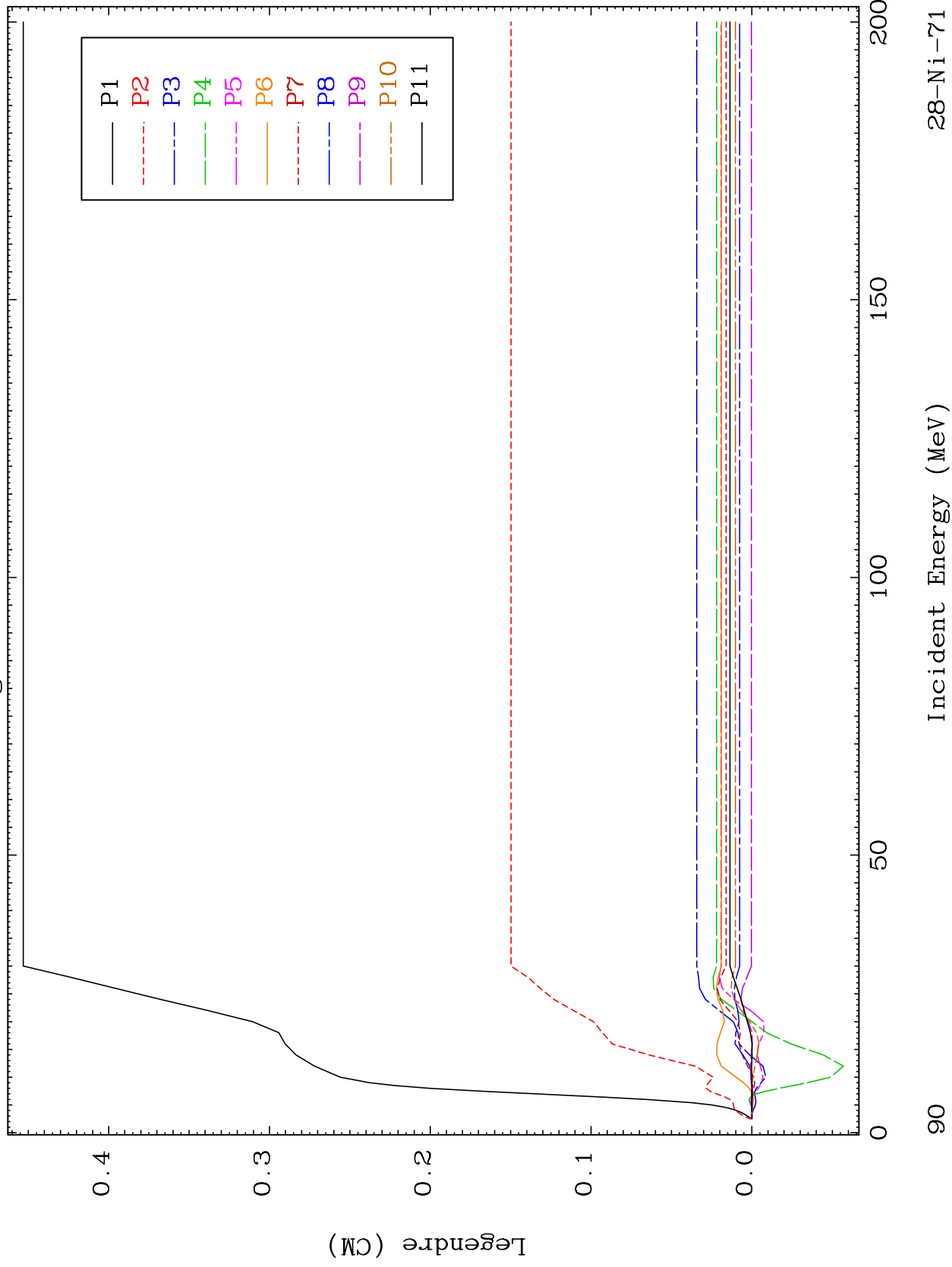
28-Ni-71



MAT 2864

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

28-Ni-71



28-Ni-71

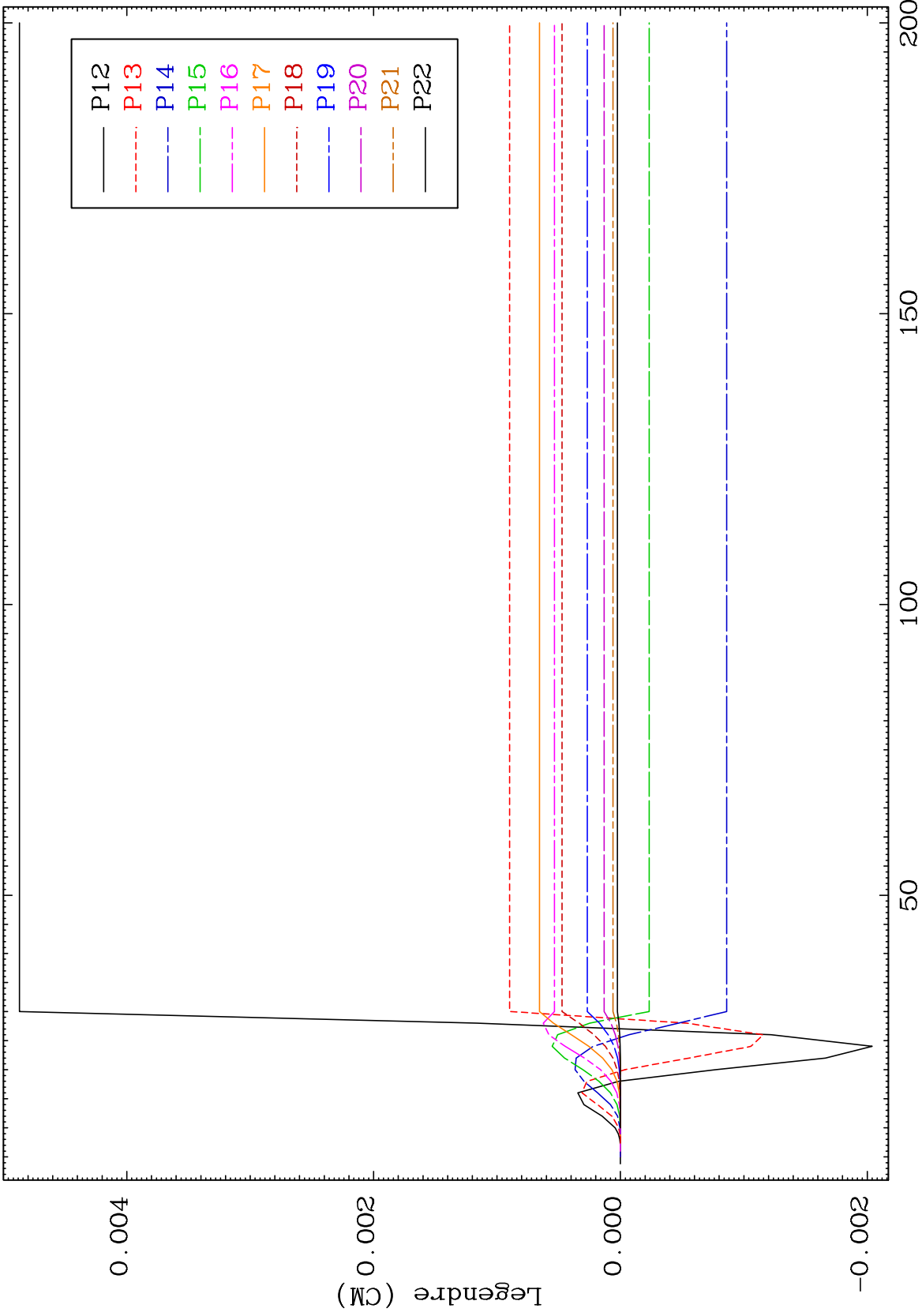
Incident Energy (MeV)

90

MAT 2864

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

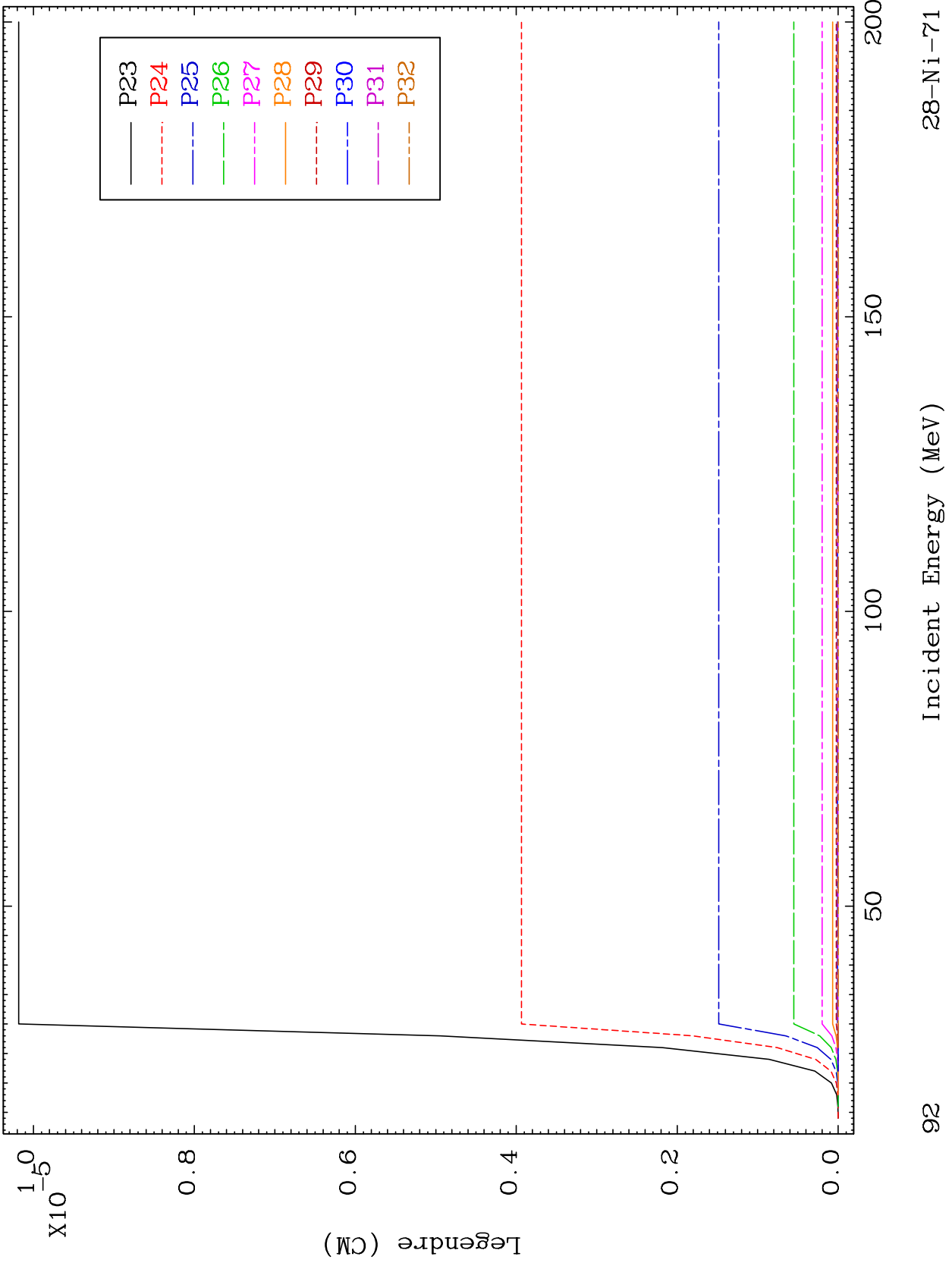
28-Ni-71



MAT 2864

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

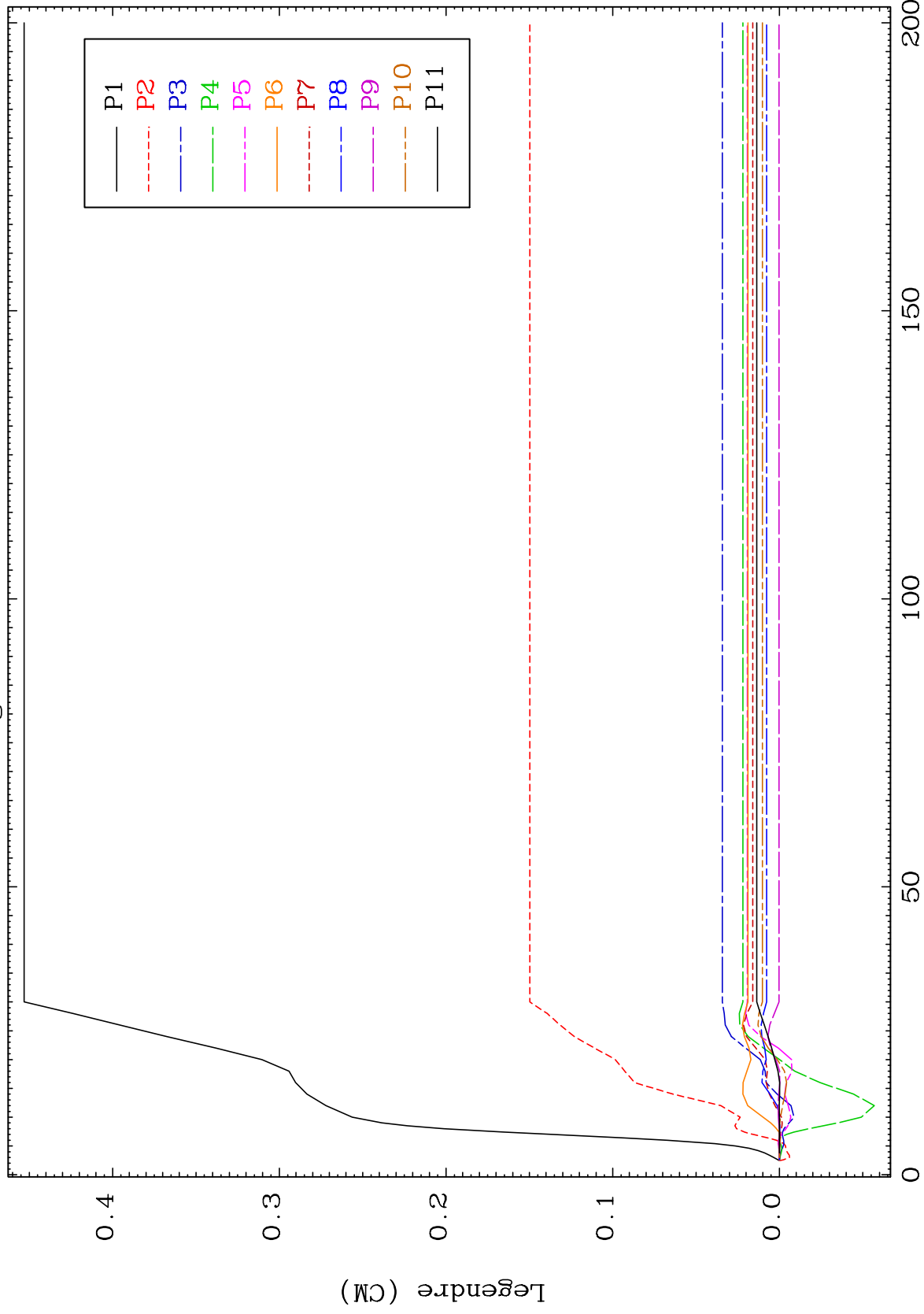
28-Ni-71



MAT 2864

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

28-Ni-71



93

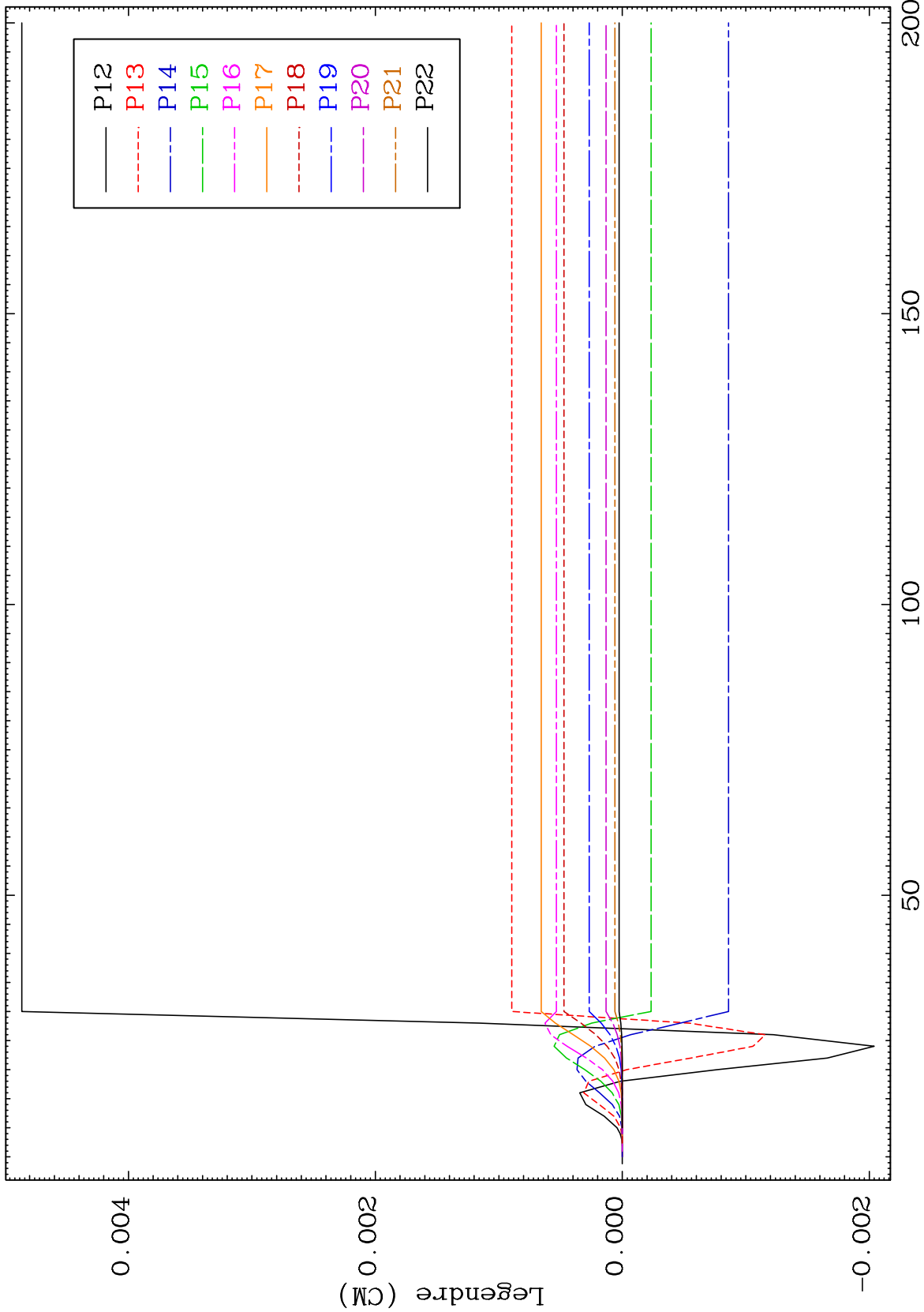
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

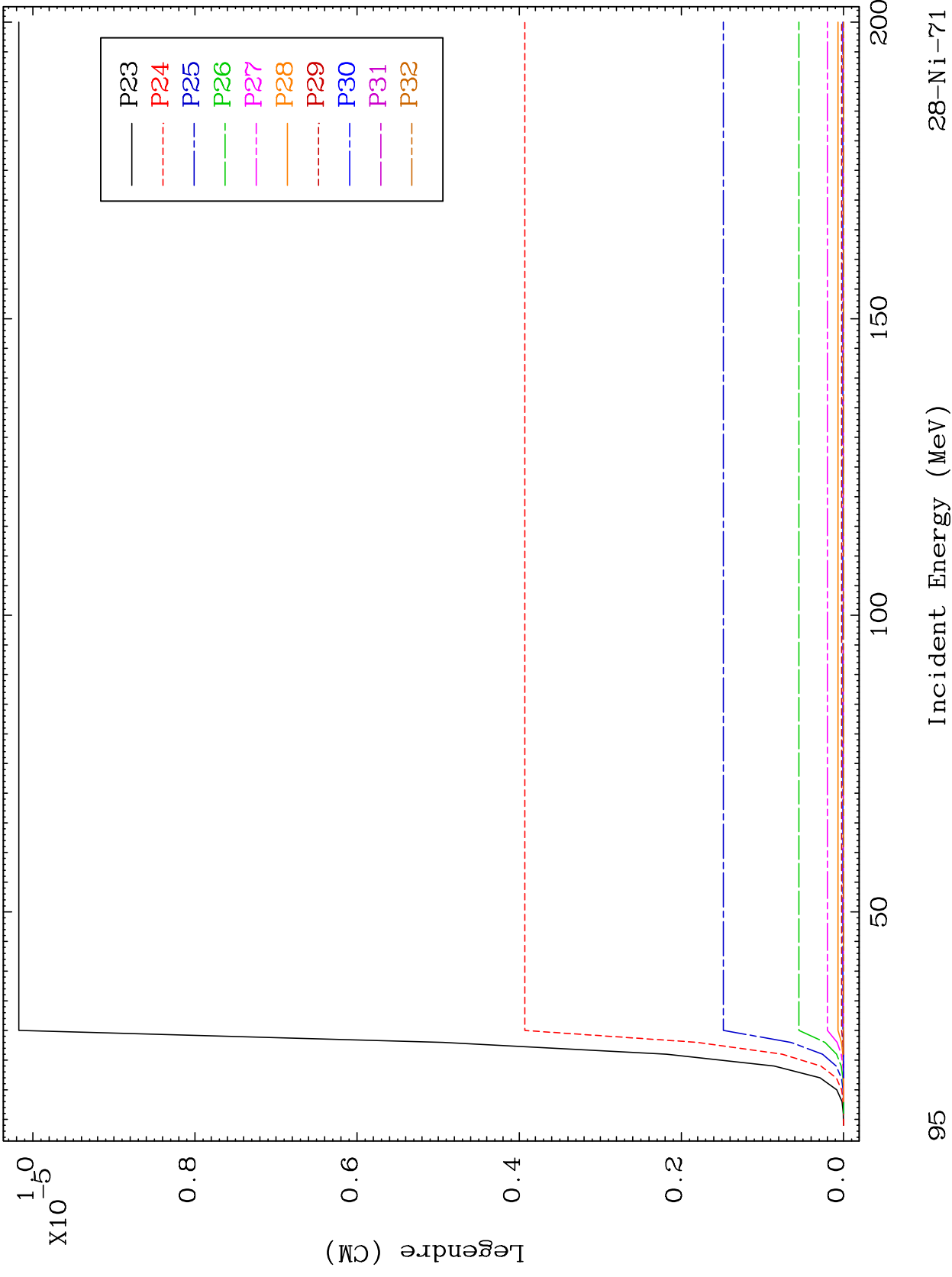
28-Ni-71

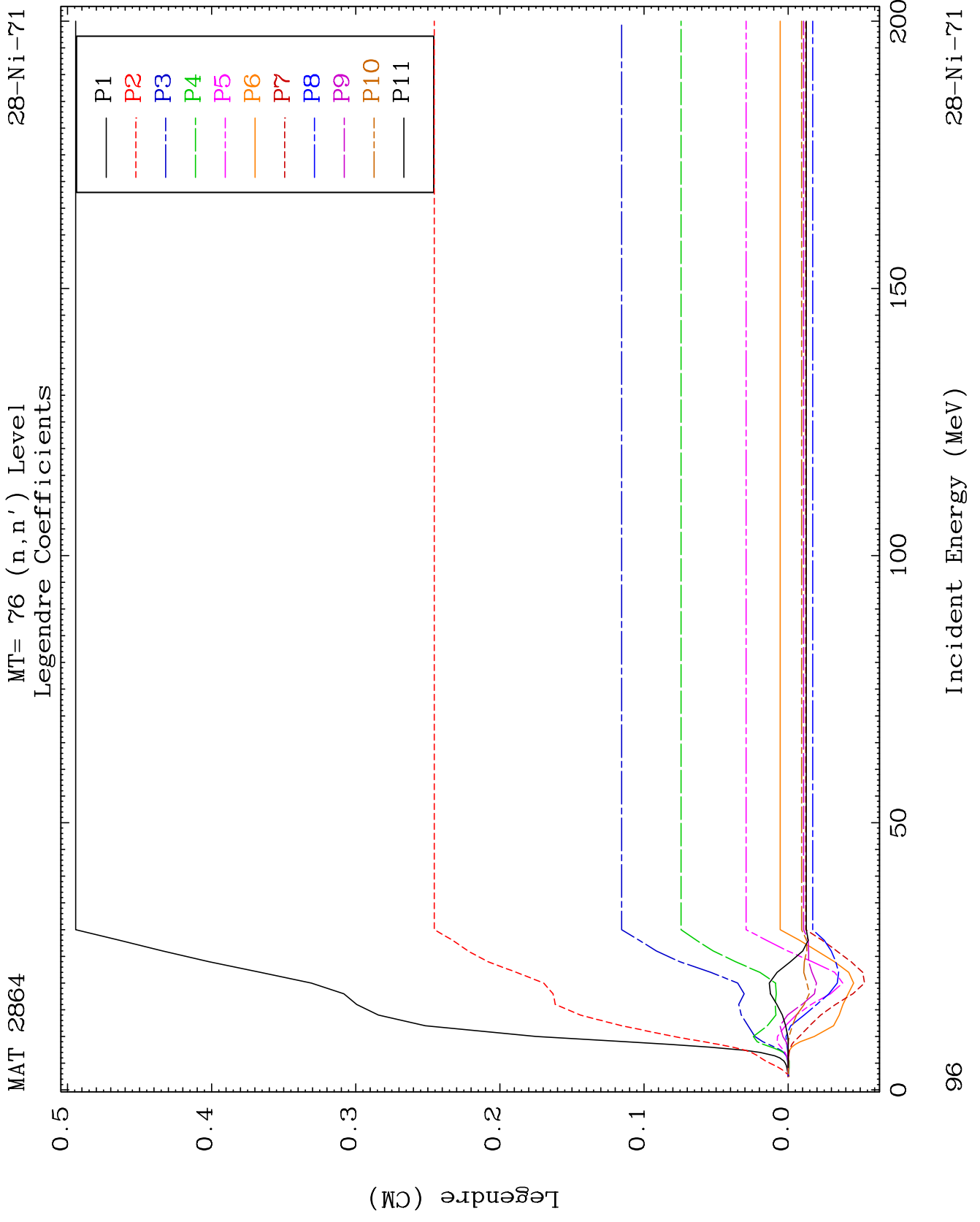


MAT 2864

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

28-Ni-71

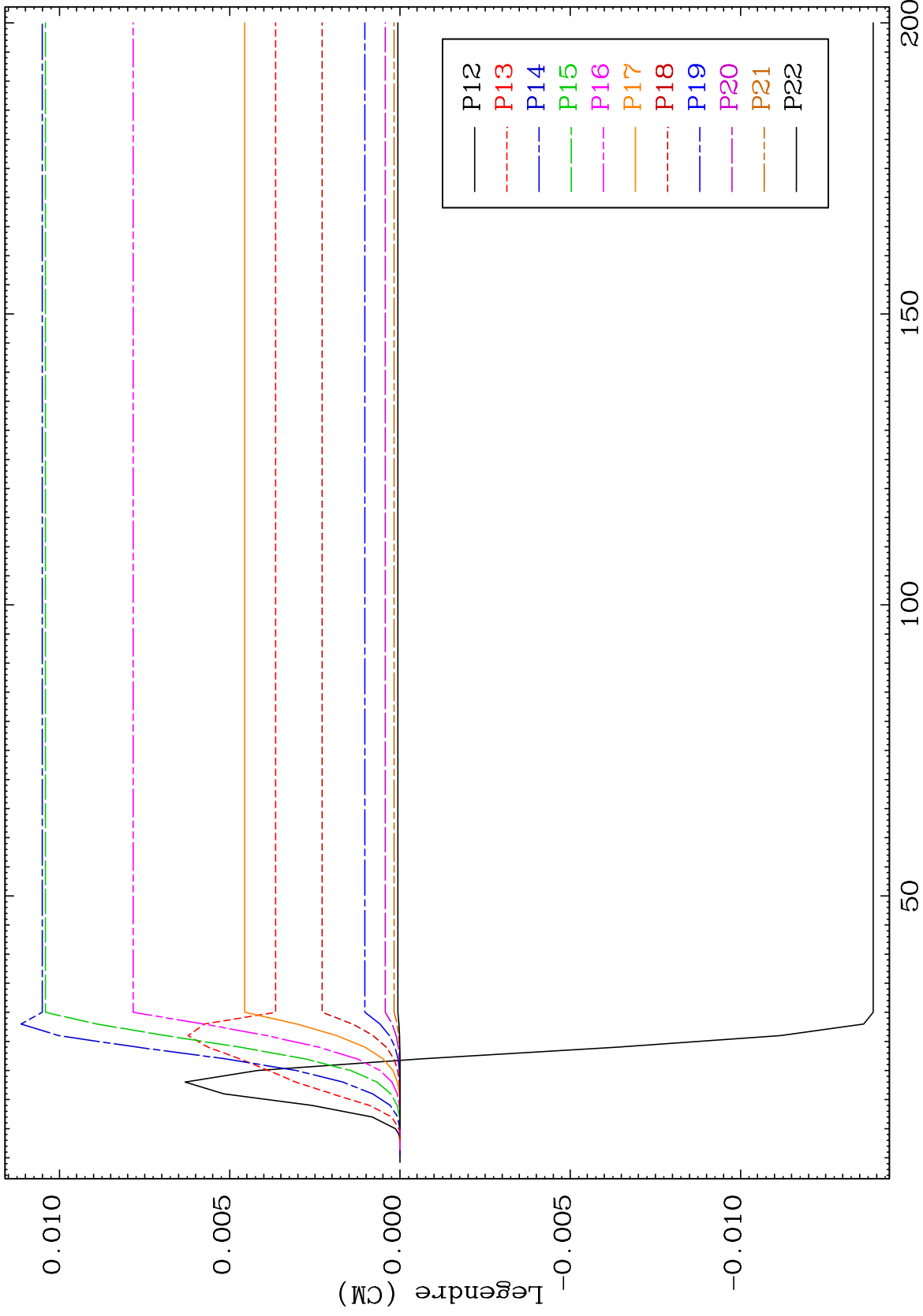




MAT 2864

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

28-Ni-71



97

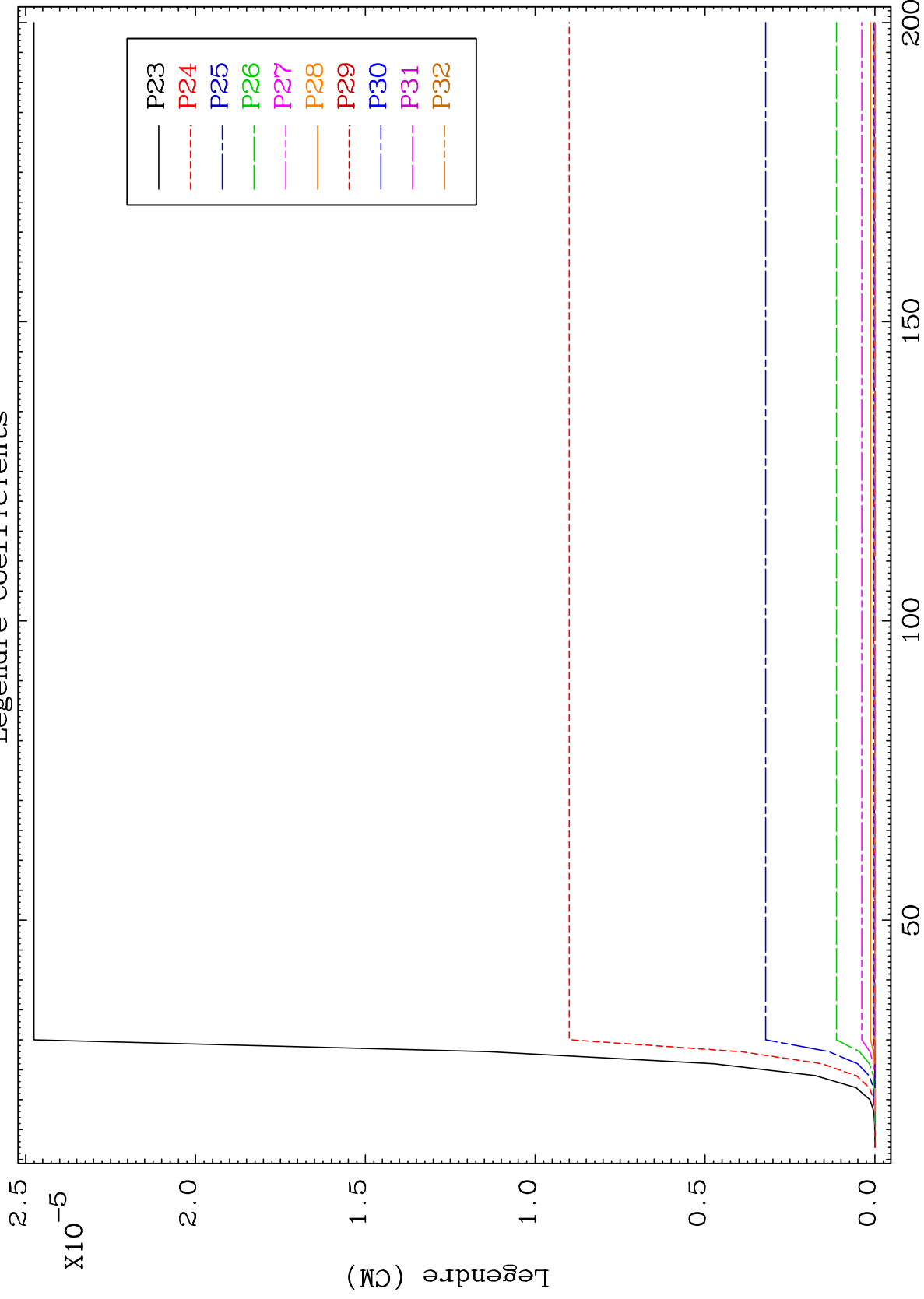
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

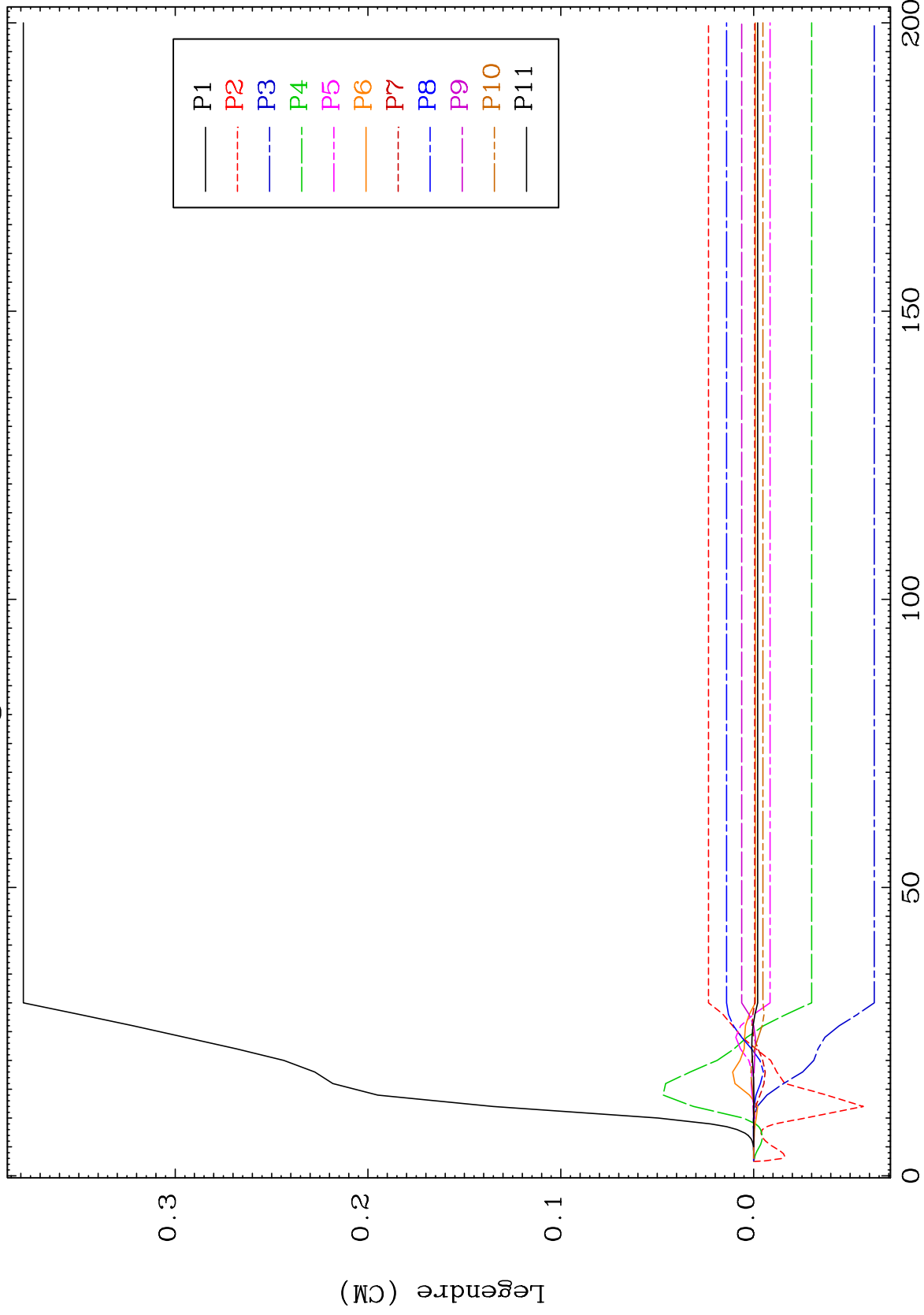
28-Ni-71



MAT 2864

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

28-Ni-71



99

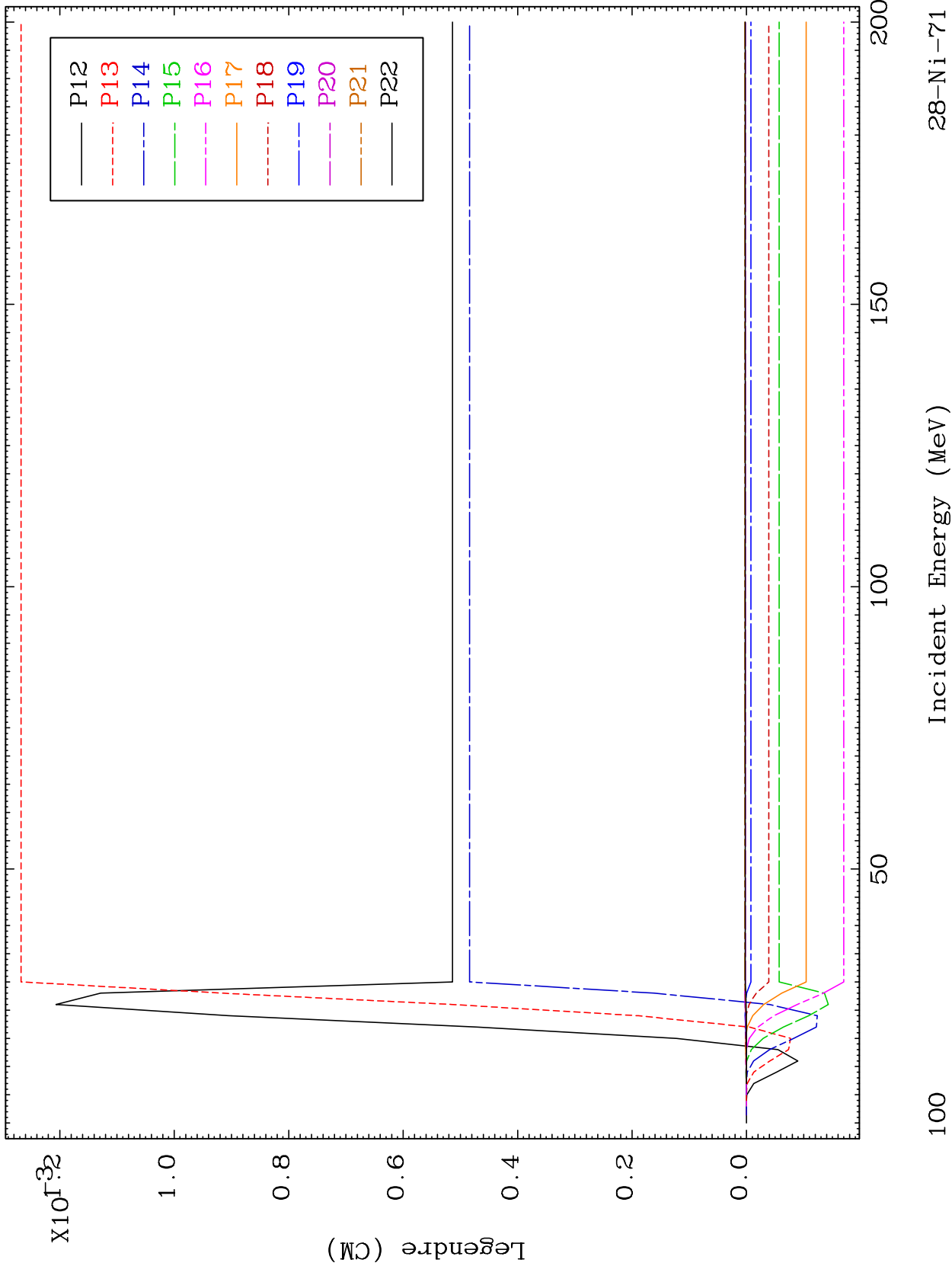
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



100

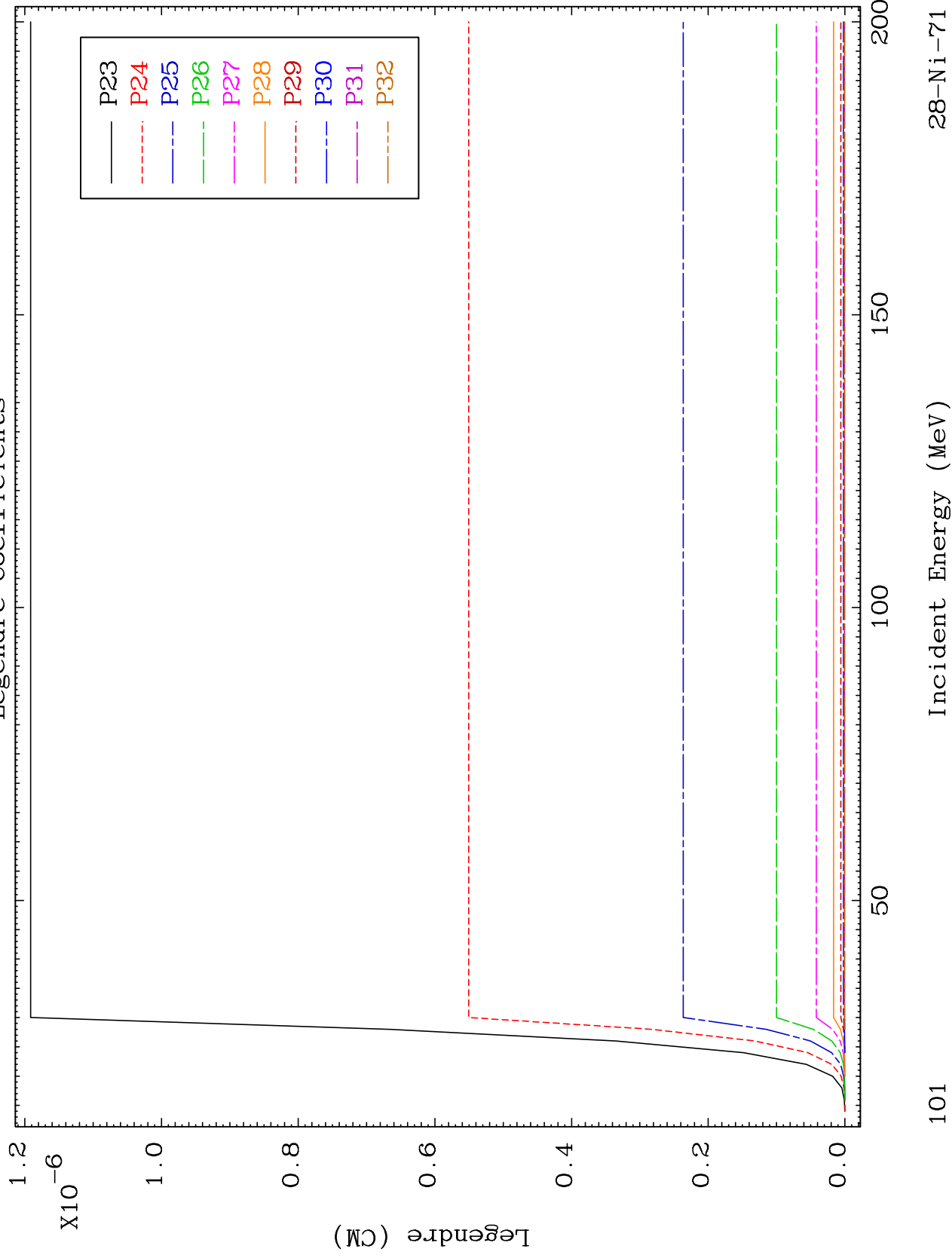
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



101

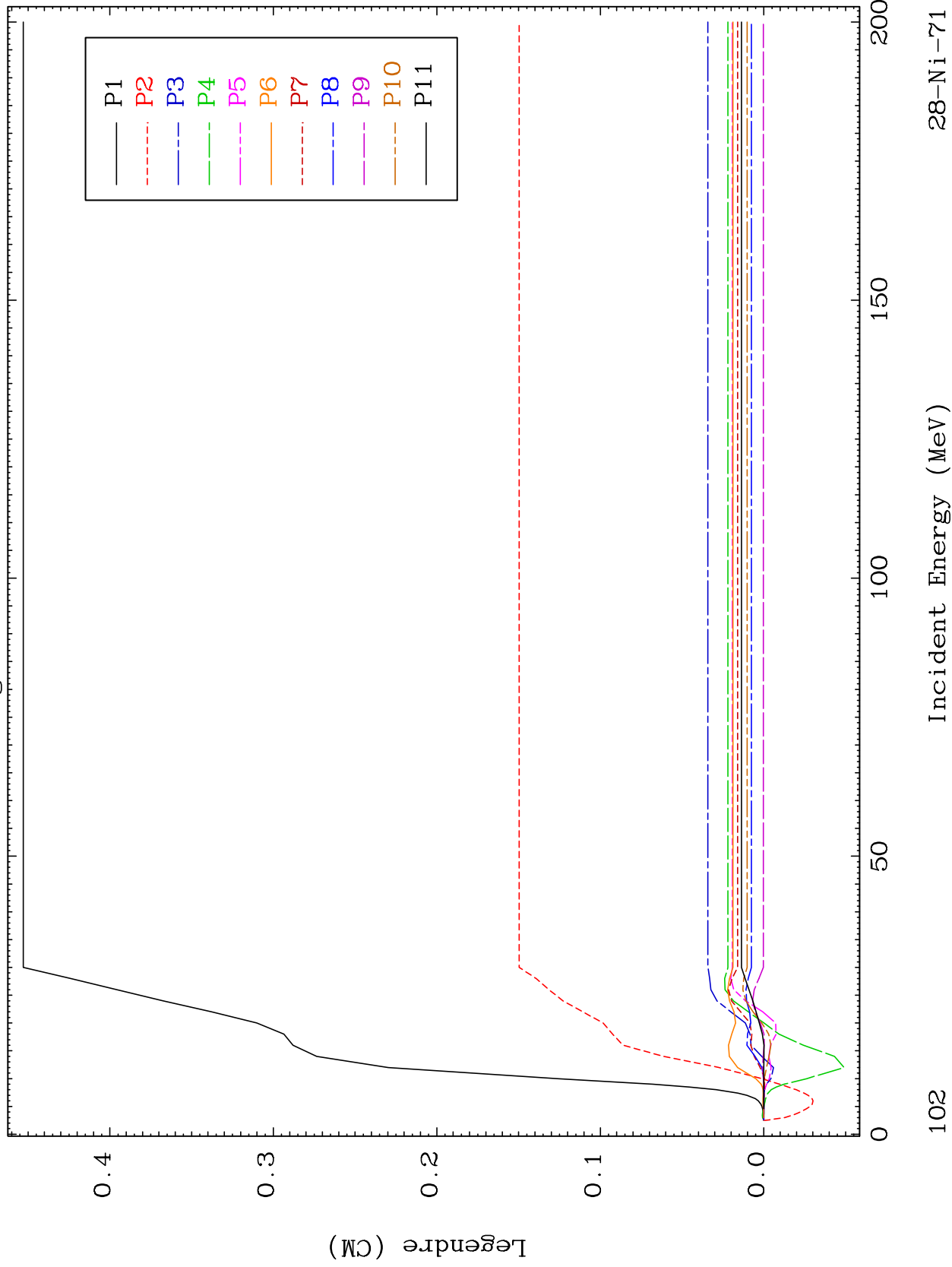
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



28-Ni-71

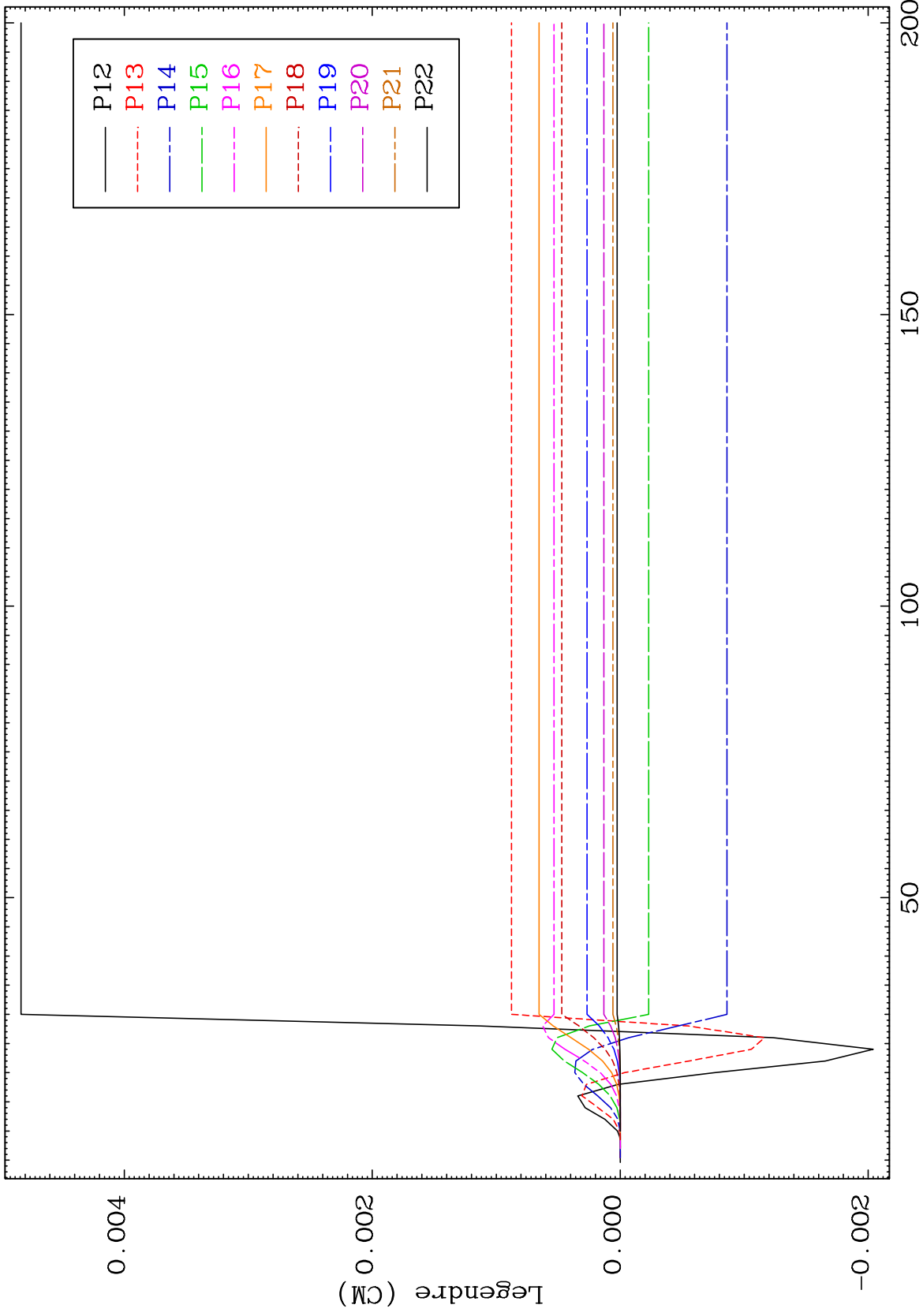
Incident Energy (MeV)

102

MAT 2864

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

28-Ni-71



103

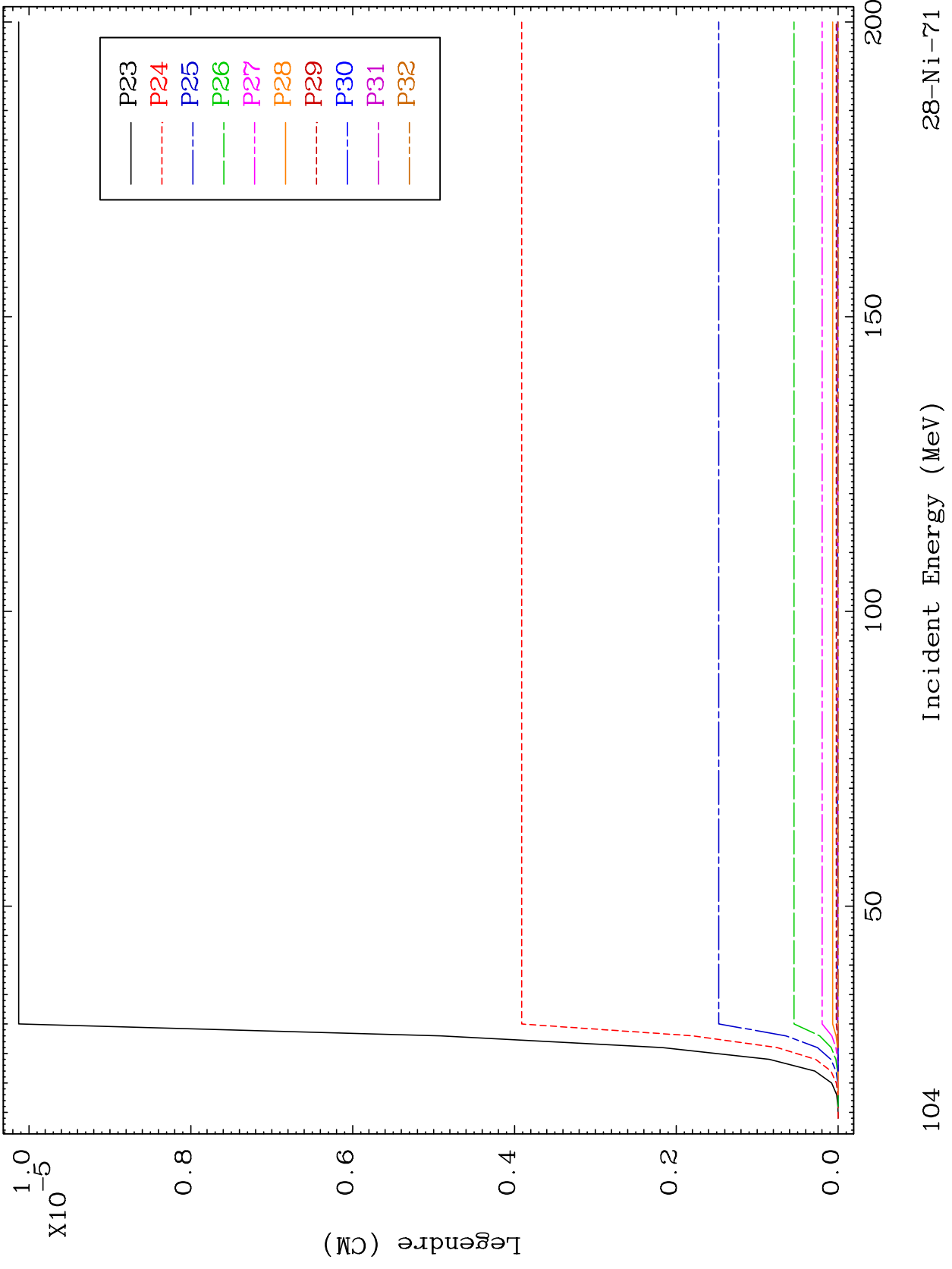
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71

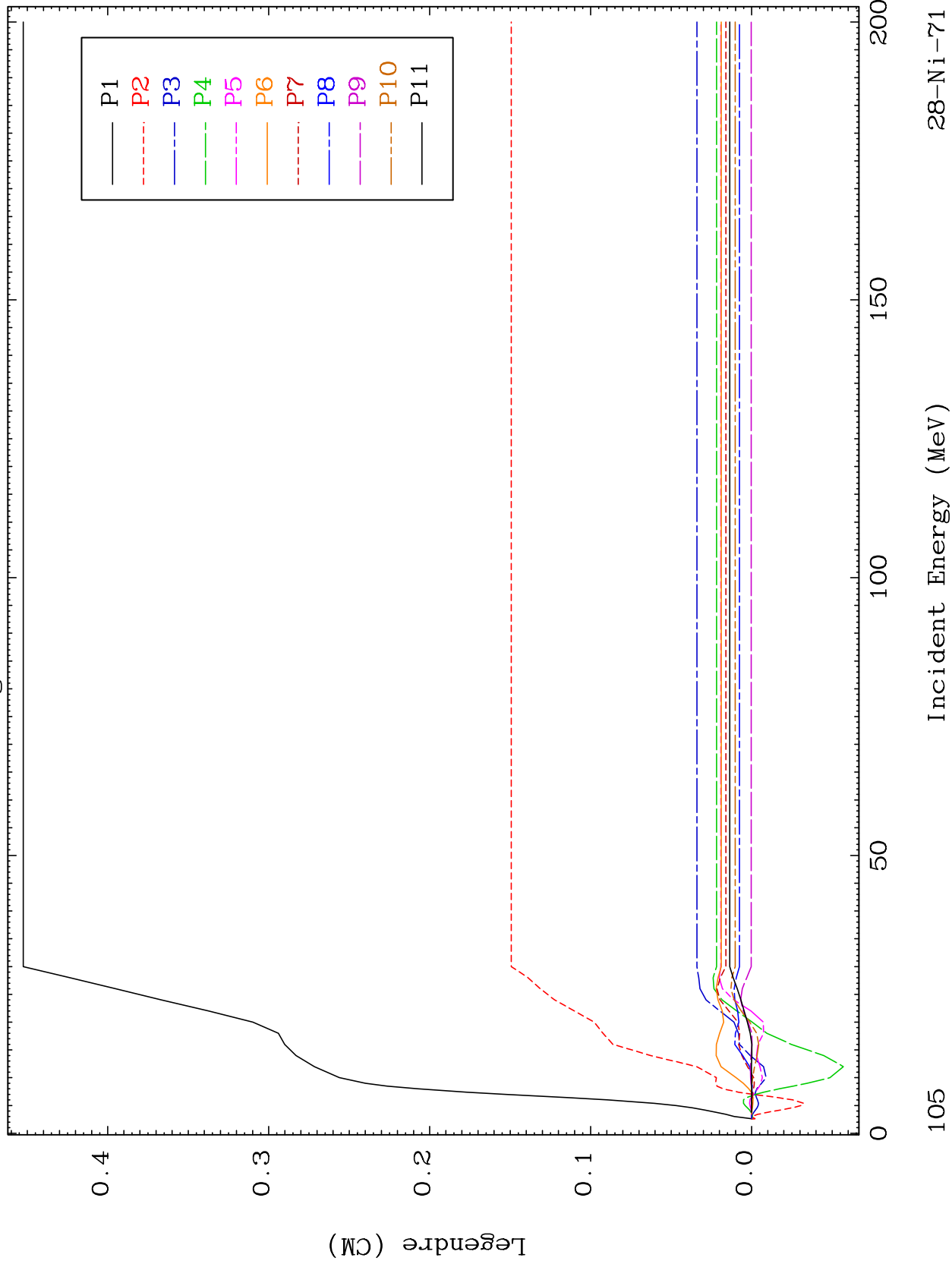


104

MAT 2864

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

28-Ni-71



28-Ni-71

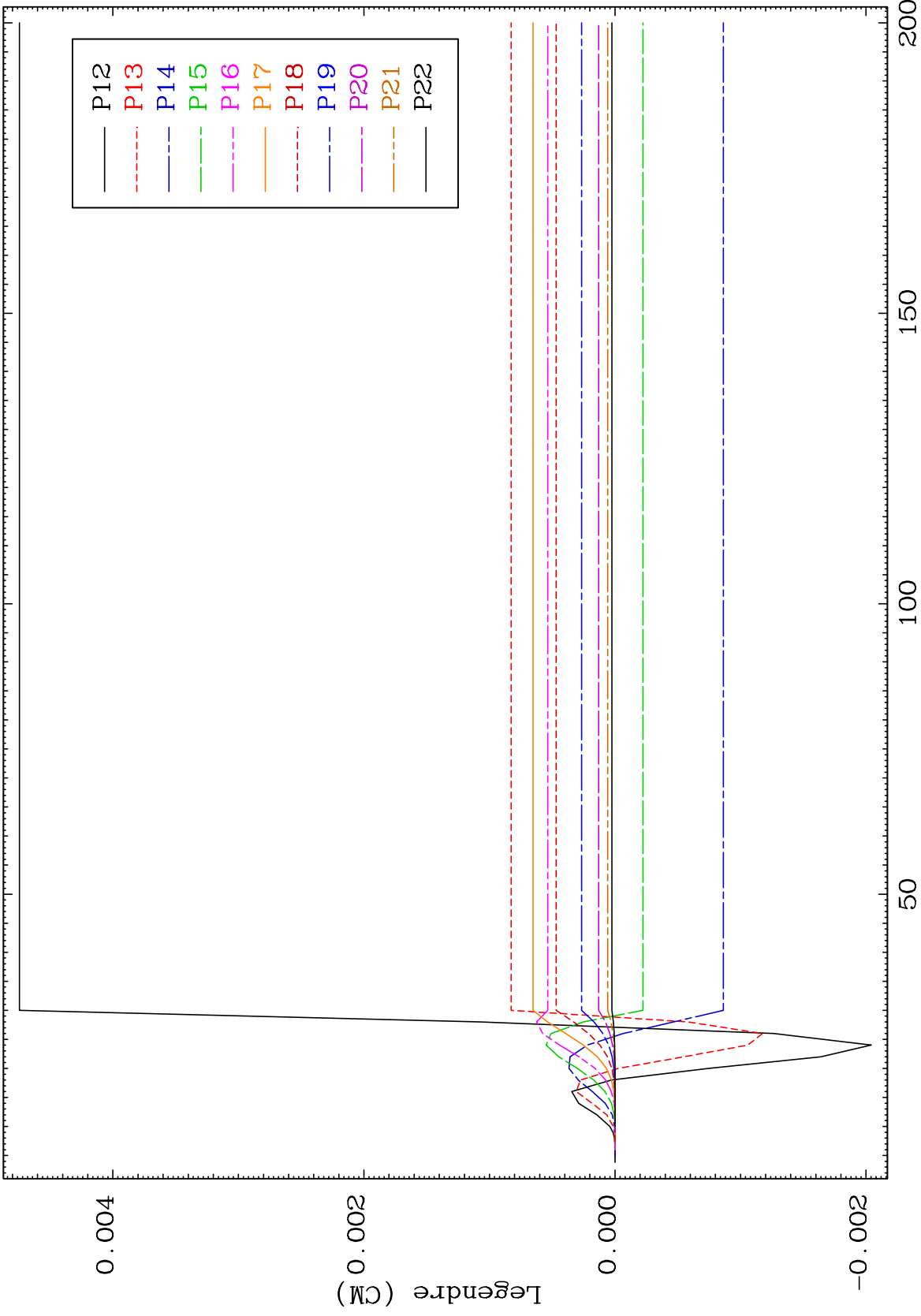
Incident Energy (MeV)

105

MAT 2864

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

28-Ni-71



106

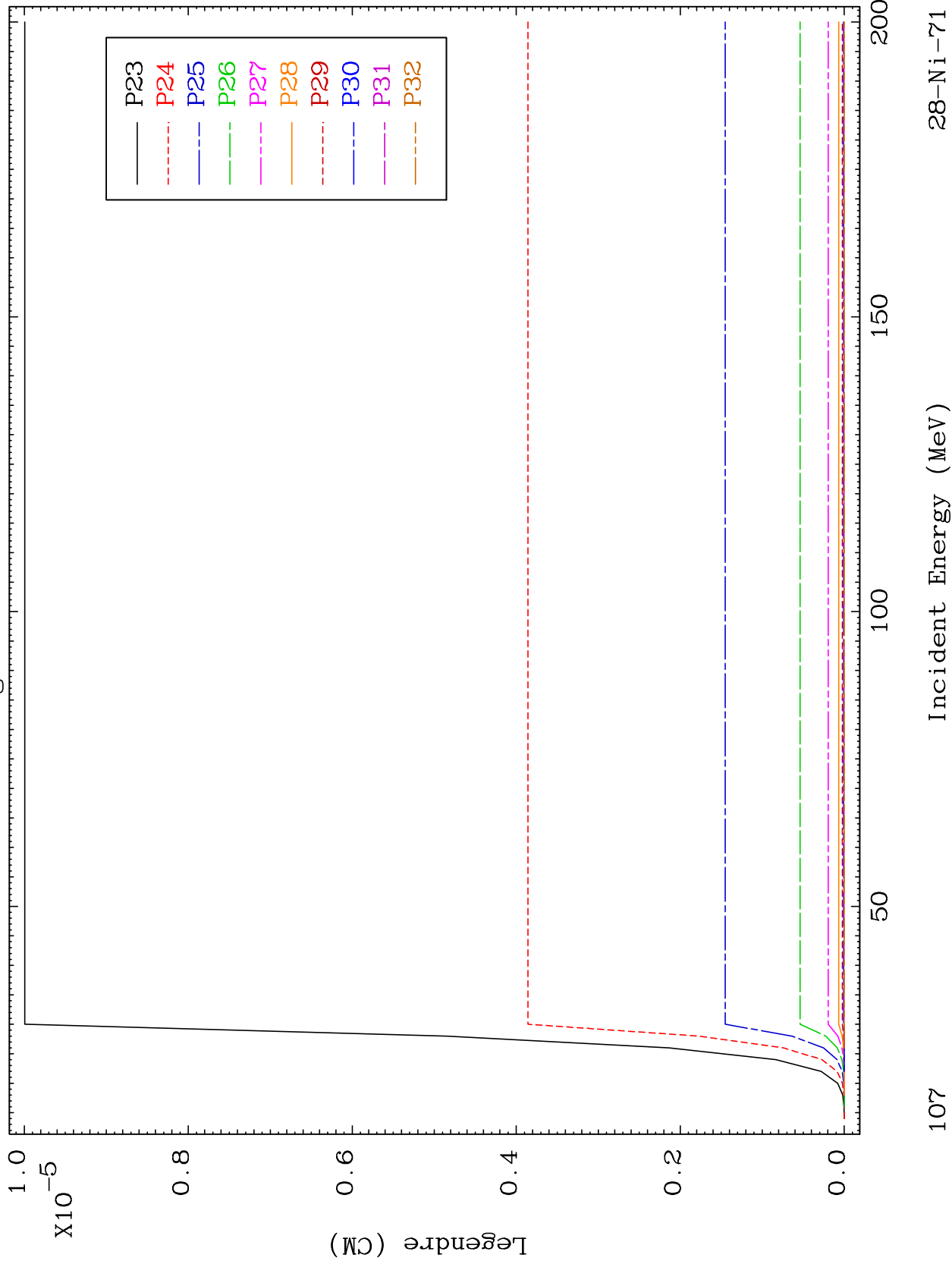
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



107

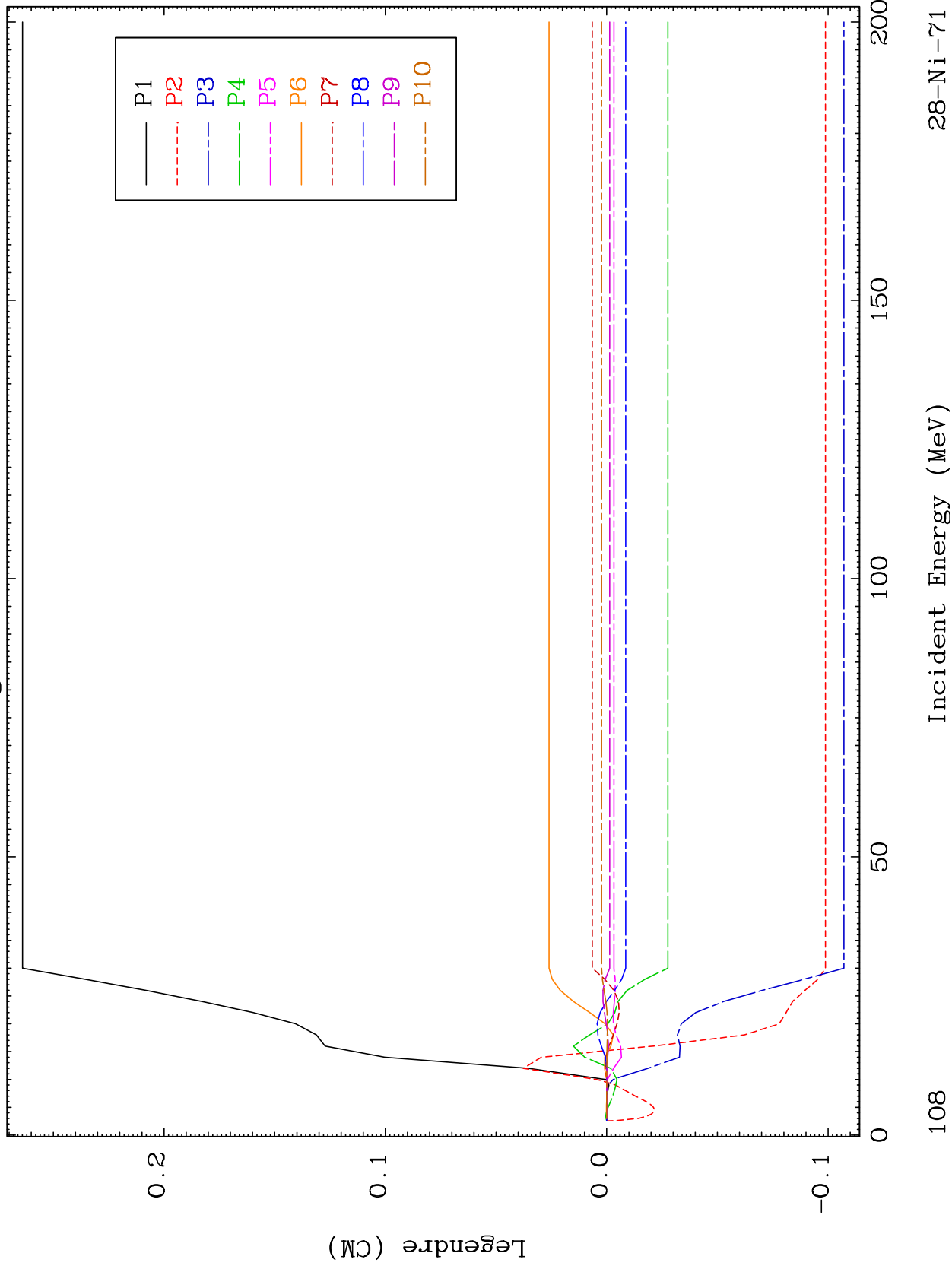
Incident Energy (MeV)

28-Ni-71

MAT 2864

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

28-Ni-71



108

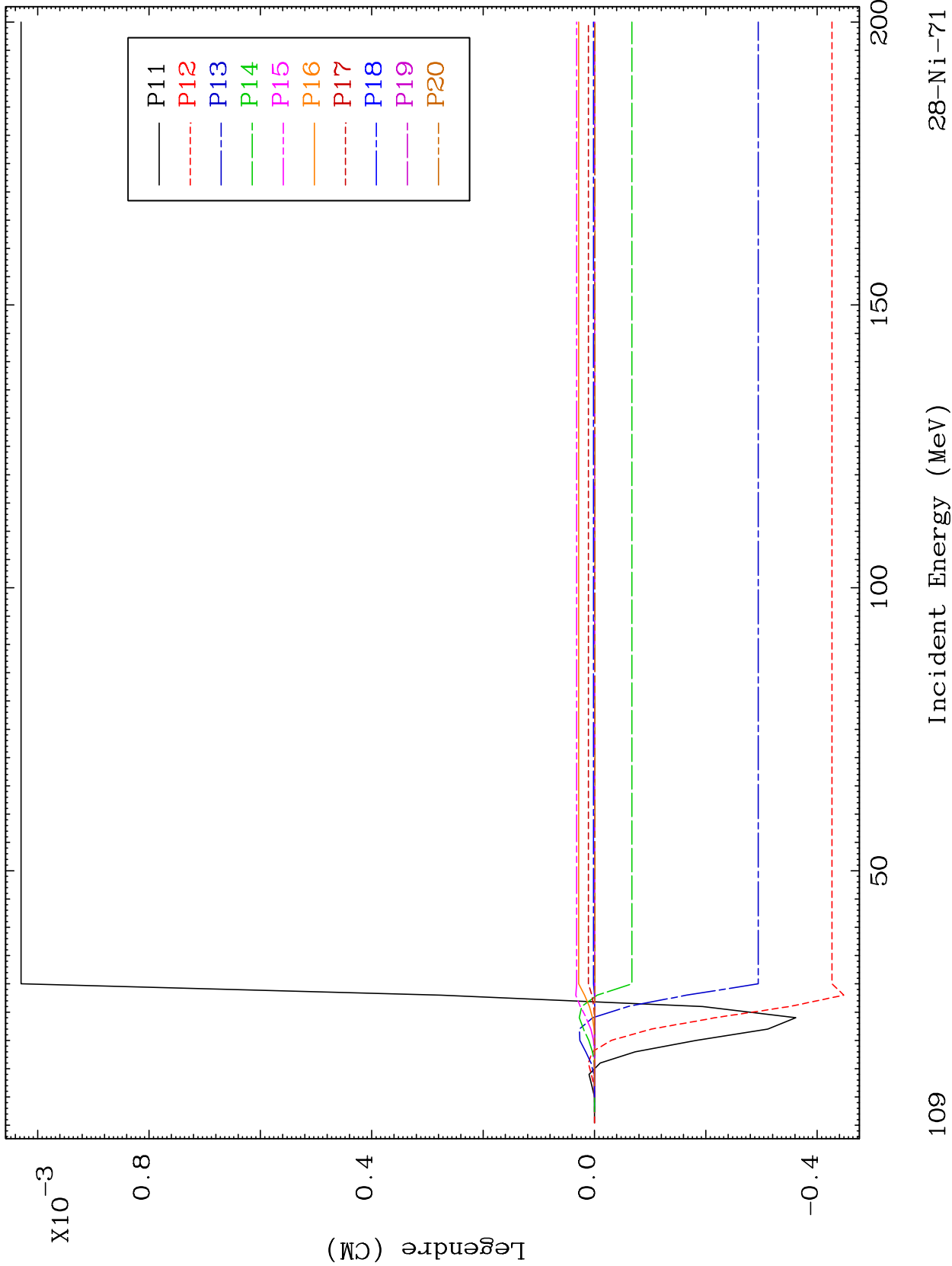
Incident Energy (MeV)

28-Ni-71

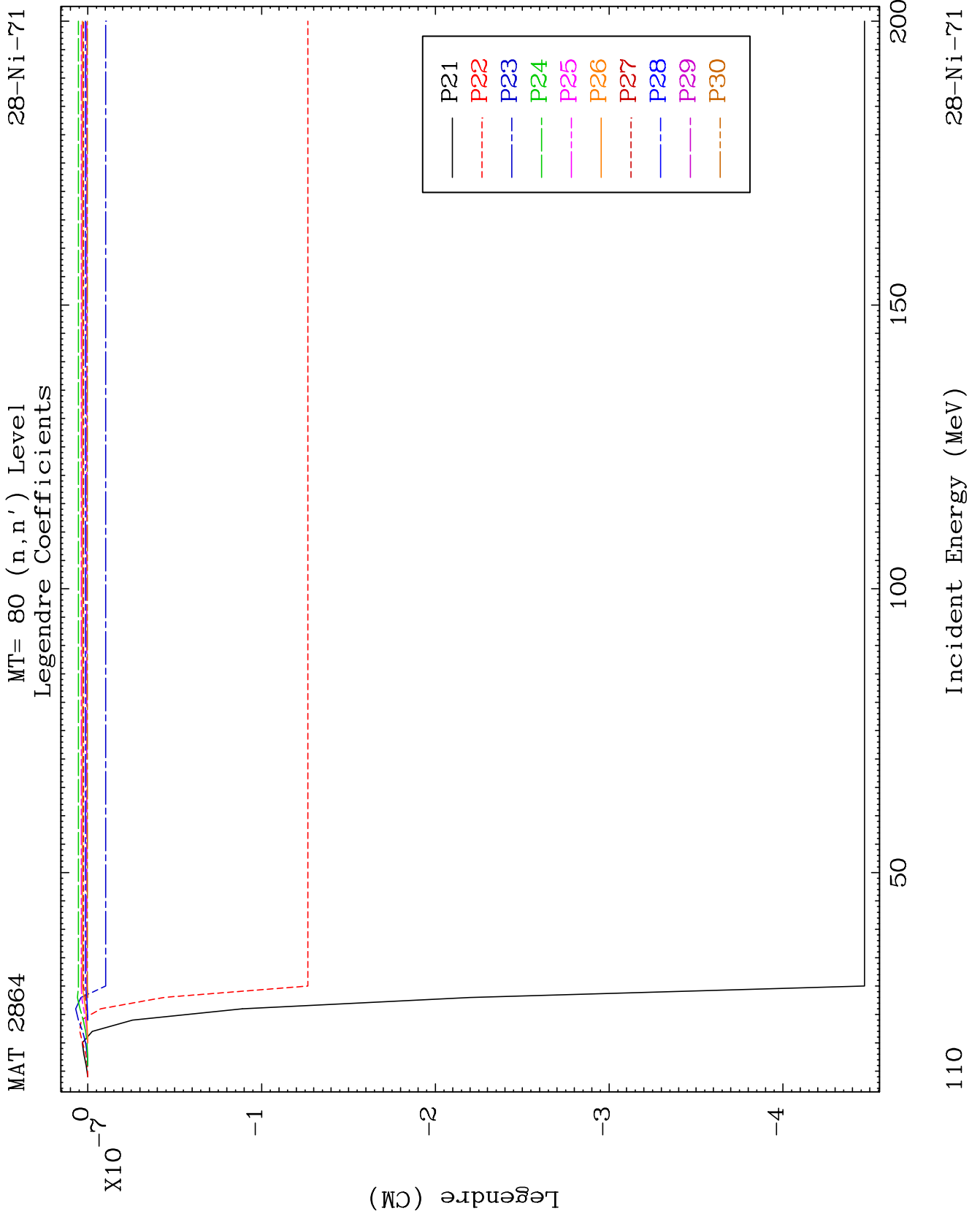
MAT 2864

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

28-Ni-71



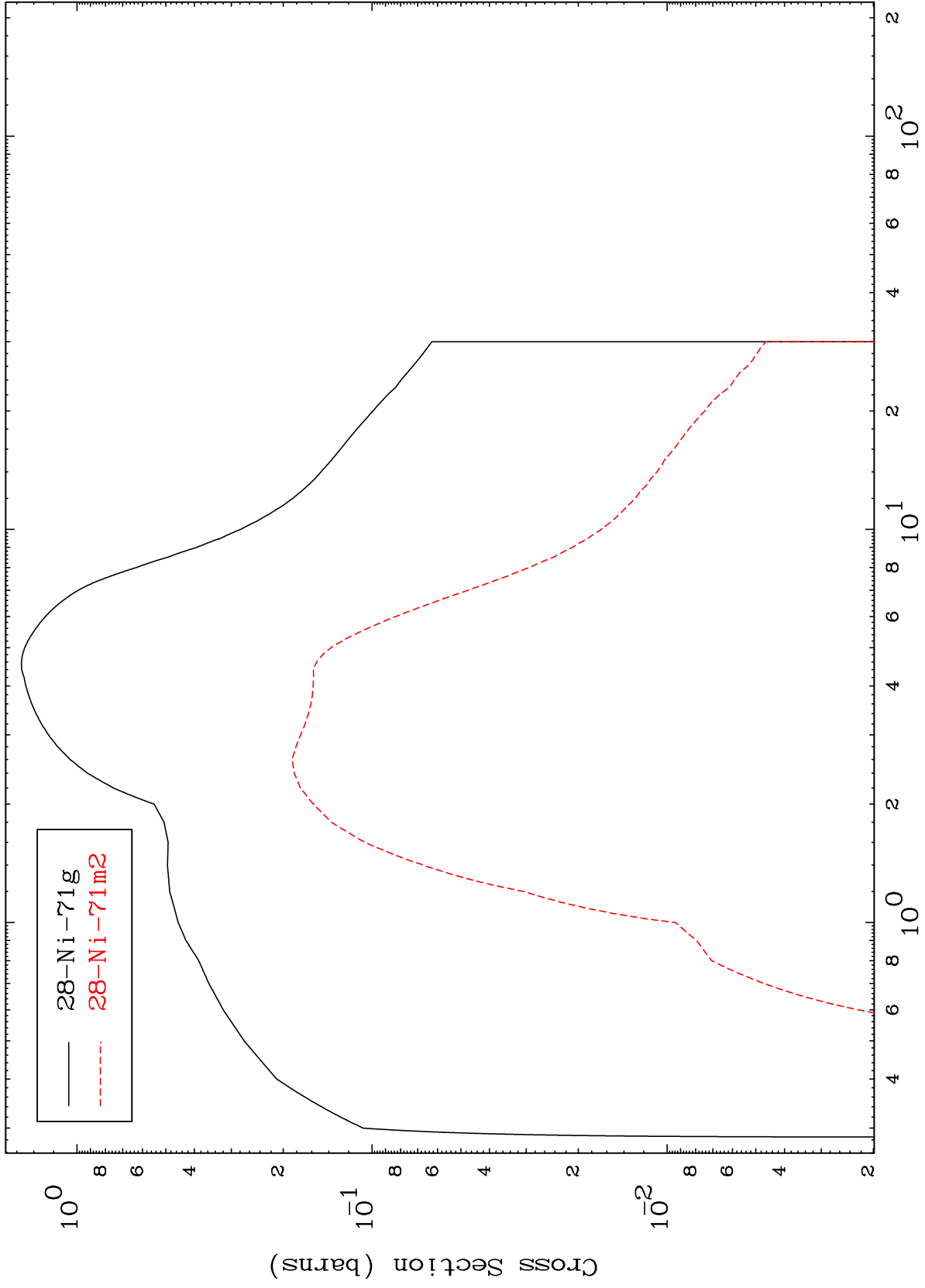
109



MAT 2864

28-Ni-71

Inelastic Radionuclide Production Cross Section

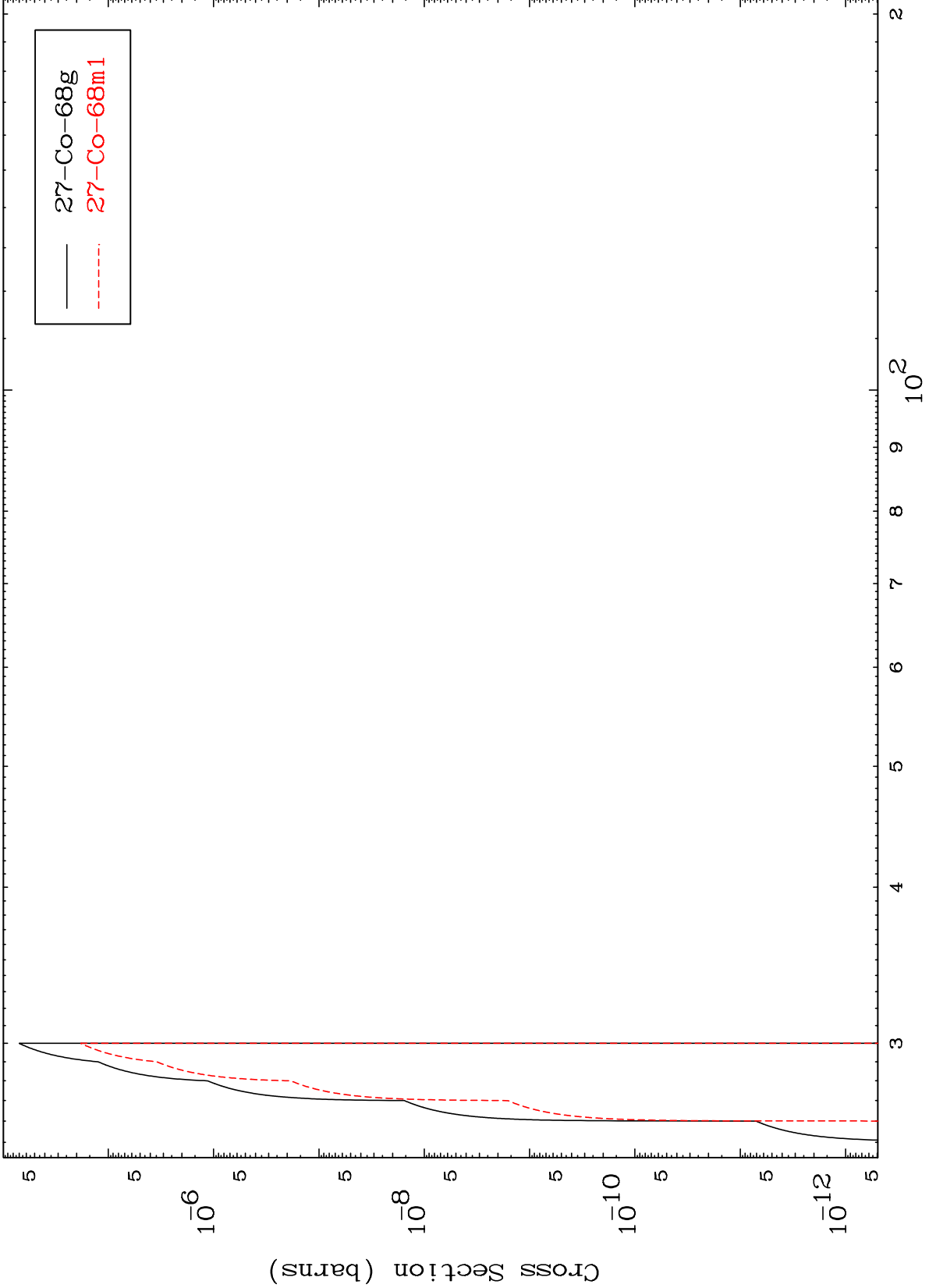


111

28-Ni-71

Incident Energy (MeV)

Radionuclide Production Cross Section

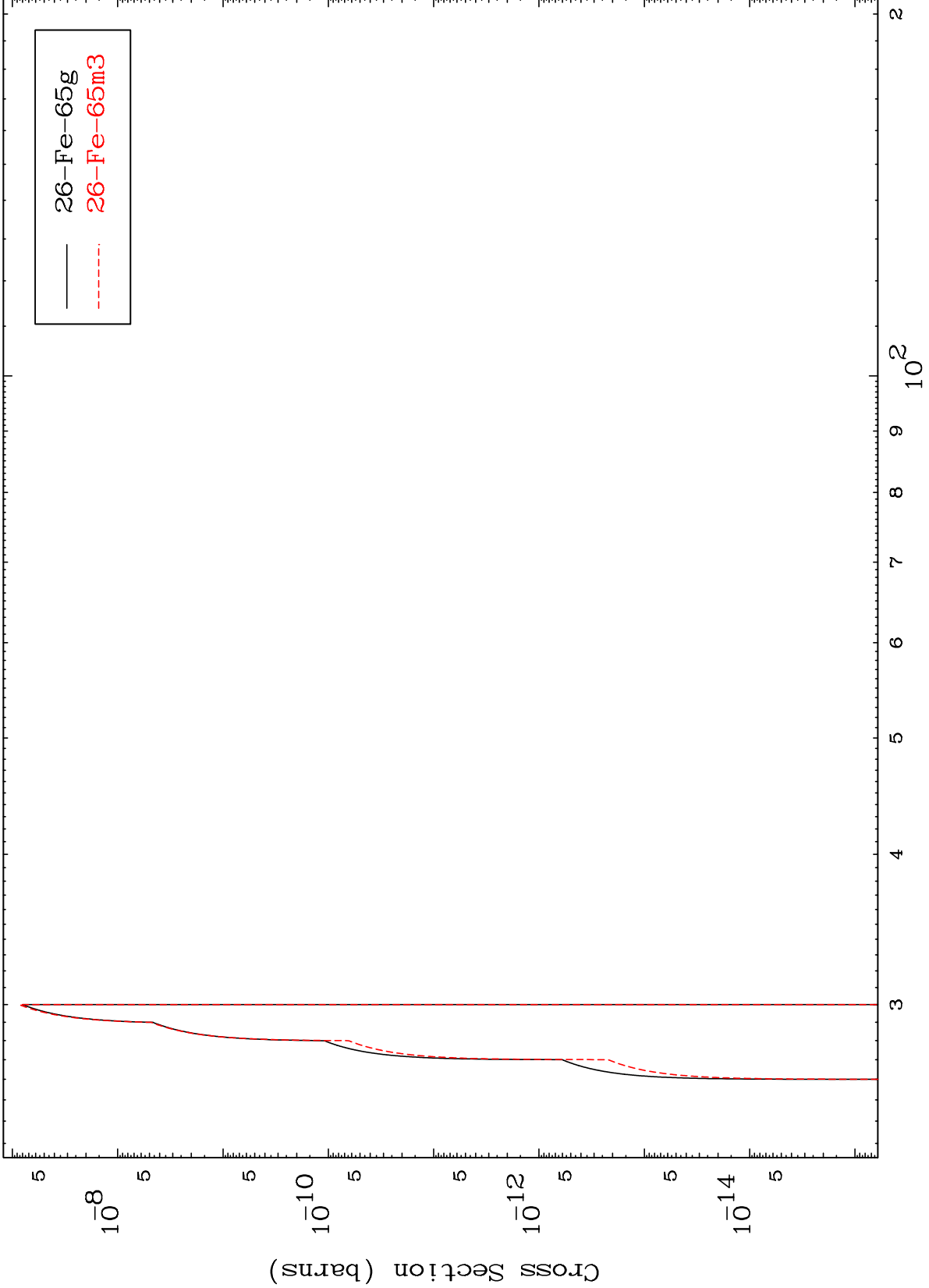


MAT 2864

(n,3n) α

28-Ni-71

Radionuclide Production Cross Section



26-Fe-65g
26-Fe-65m3

113

Incident Energy (MeV)

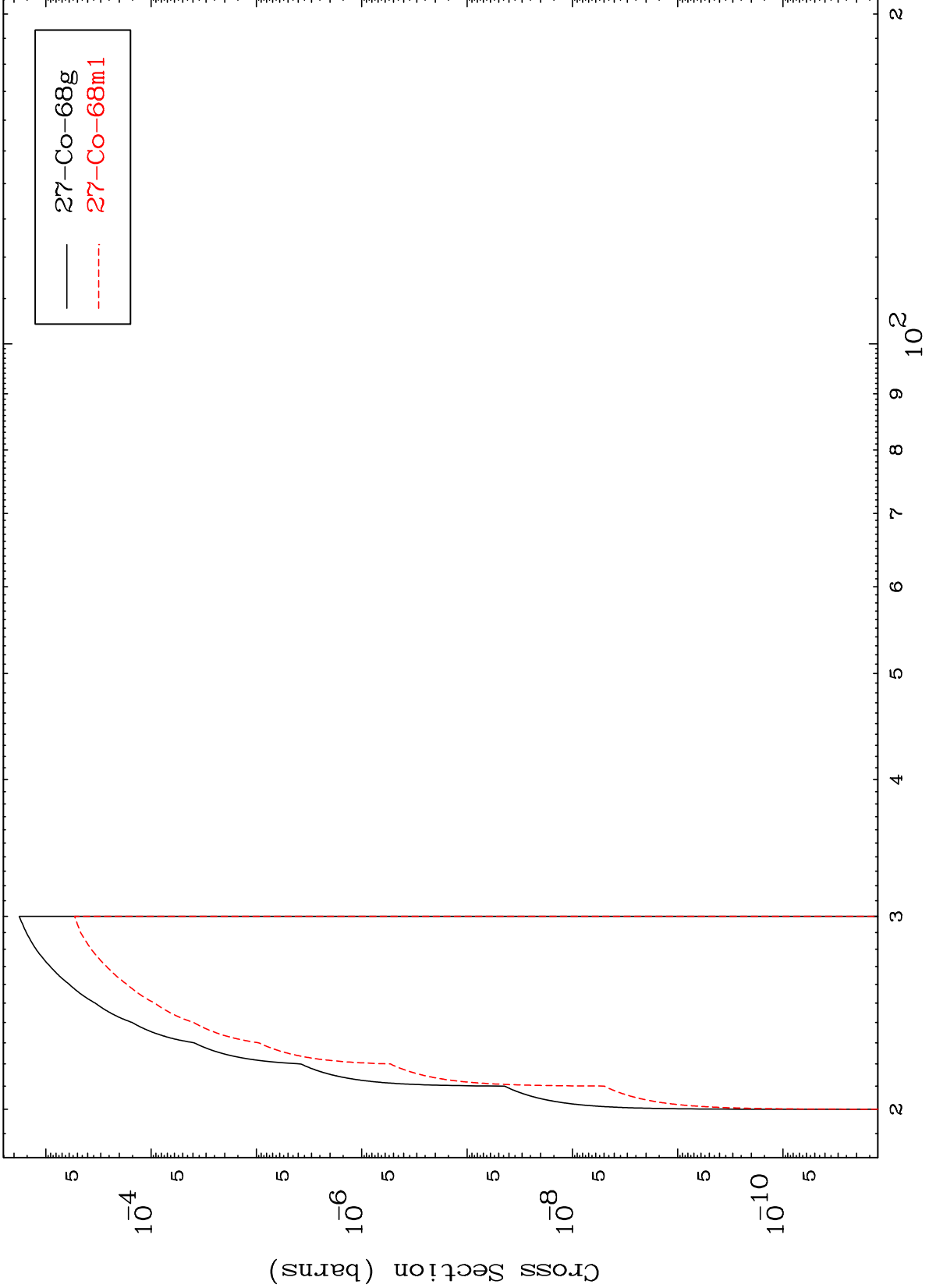
28-Ni-71

MAT 2864

(n,n') t

28-Ni-71

Radionuclide Production Cross Section



114

Incident Energy (MeV)

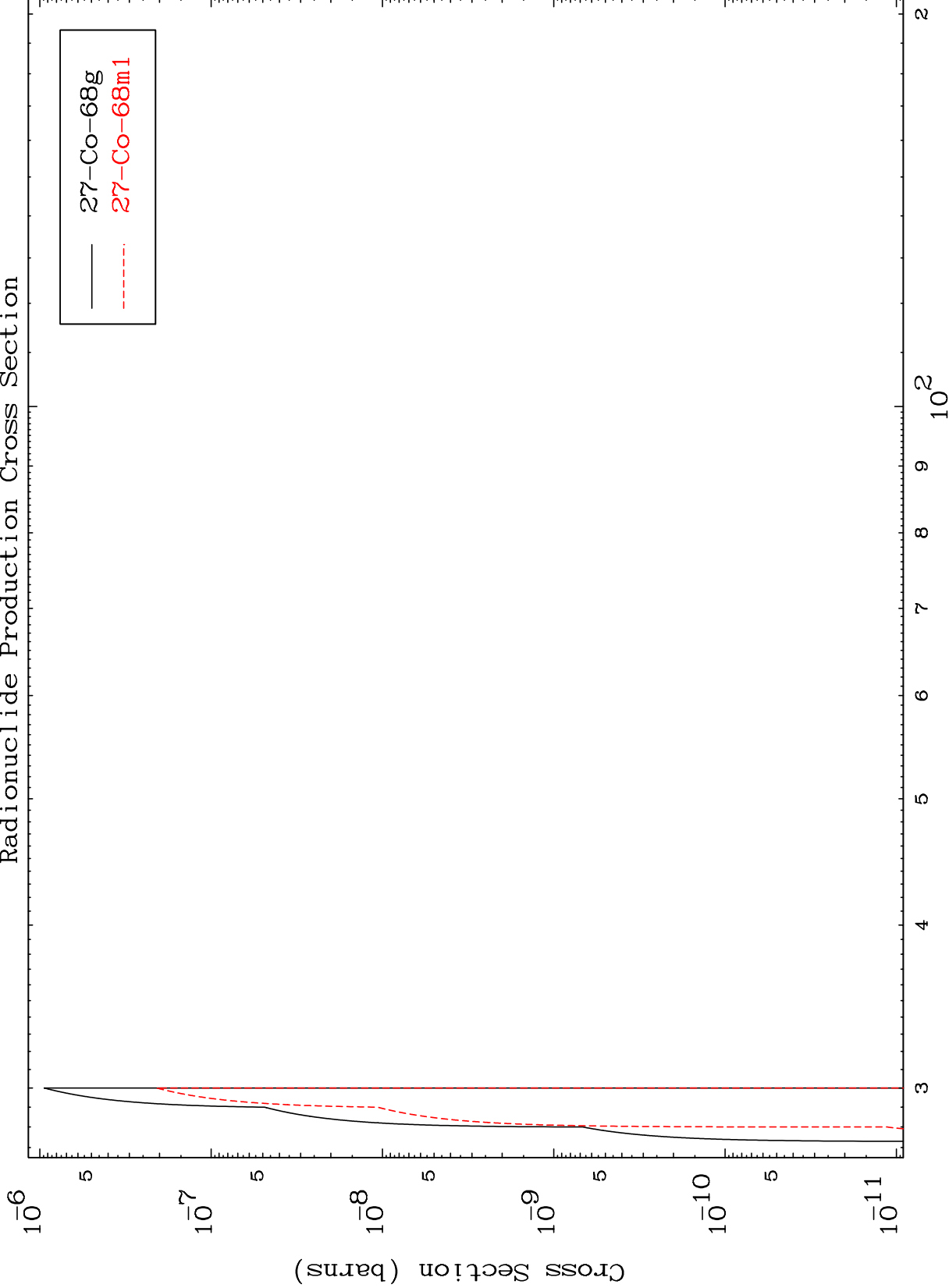
28-Ni-71

MAT 2864

(n,3n) p

28-Ni-71

Radionuclide Production Cross Section



— 27-Co-68g
- - - 27-Co-68m1

115

Incident Energy (MeV)

28-Ni-71