

Program EVALPLOT
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

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

Tele: 925-443-1911

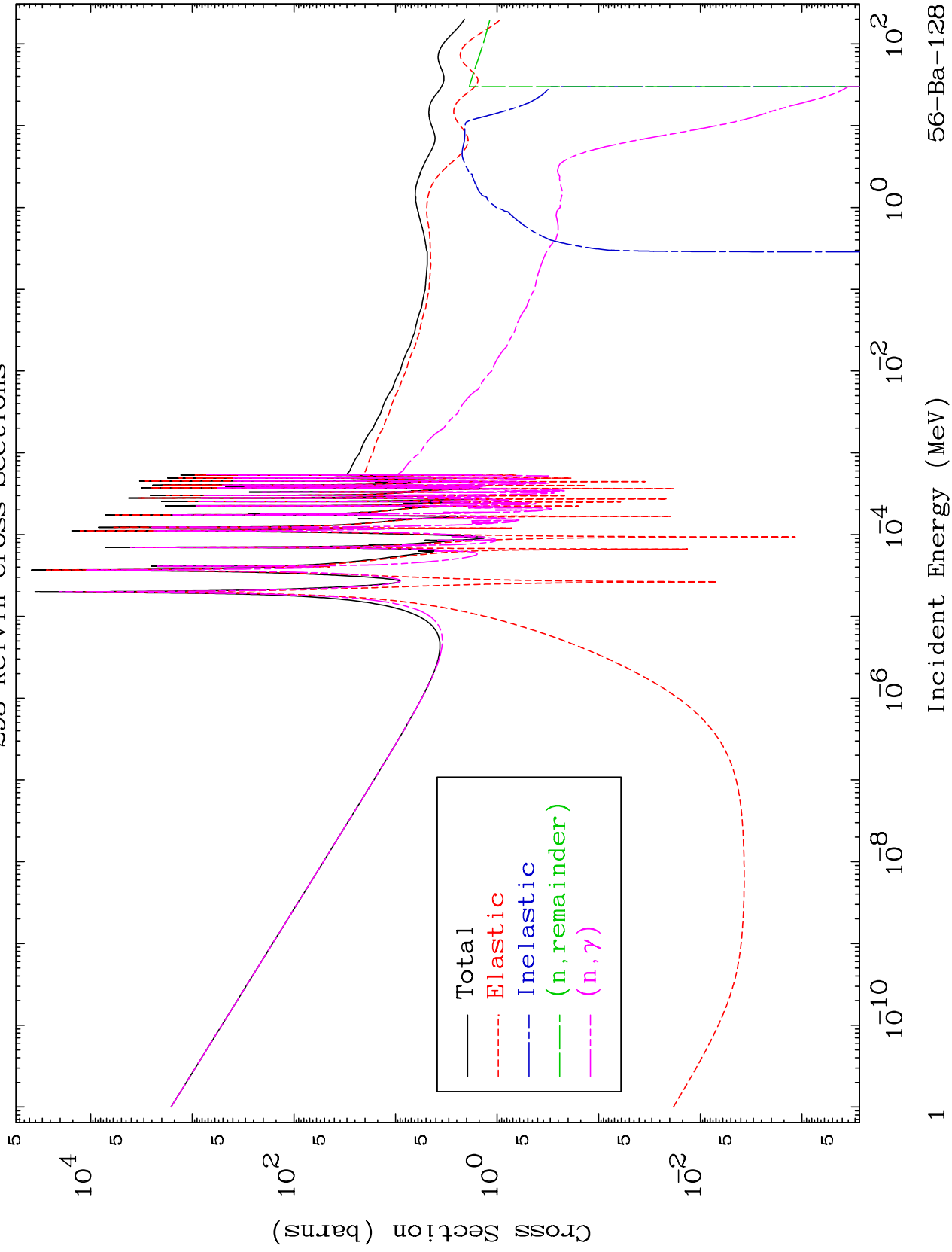
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5619

Major
293 Kelvin Cross Sections

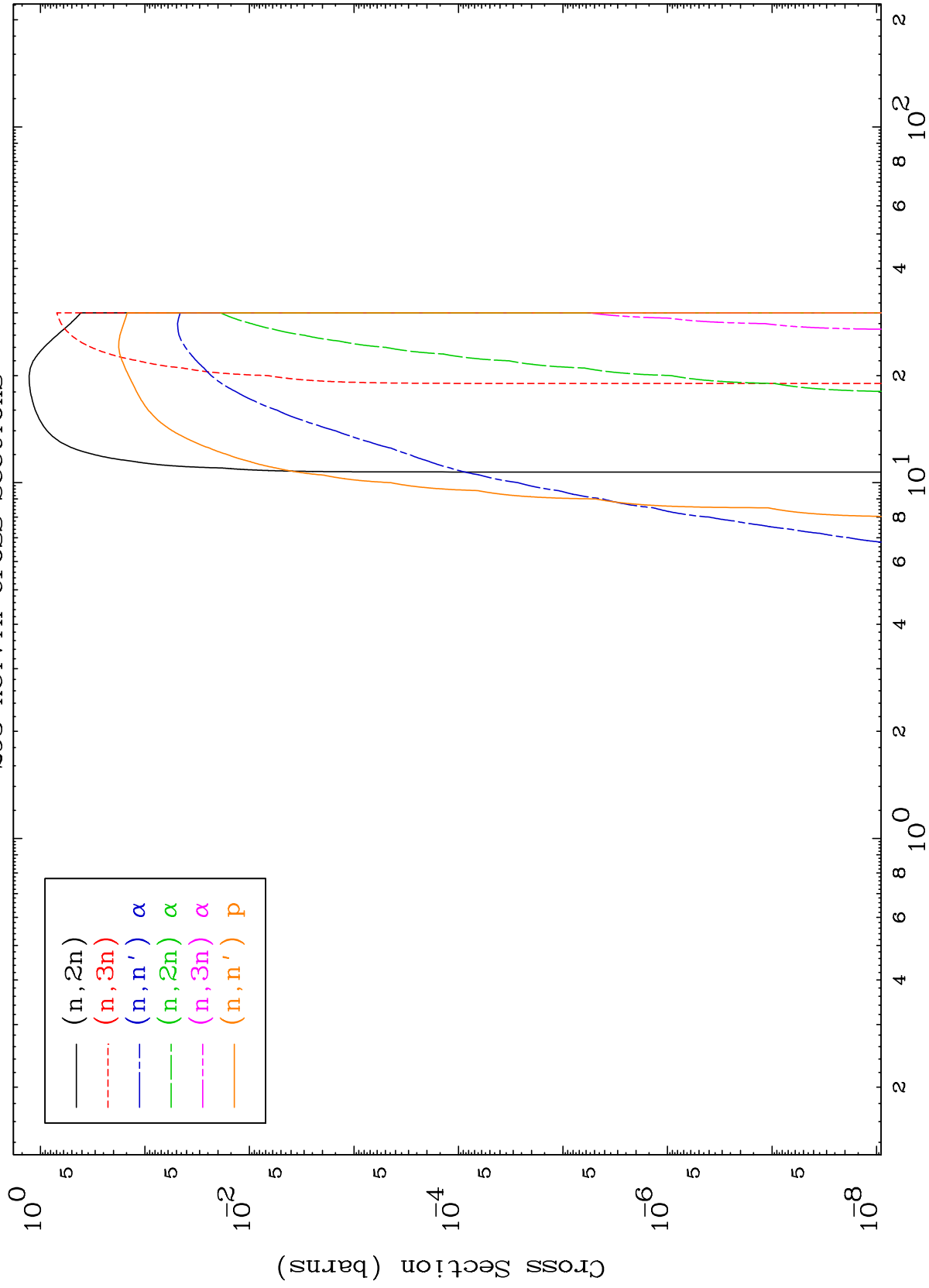
56-Ba-128



MAT 5619

Neutron Production
293 Kelvin Cross Sections

56-Ba-128



2

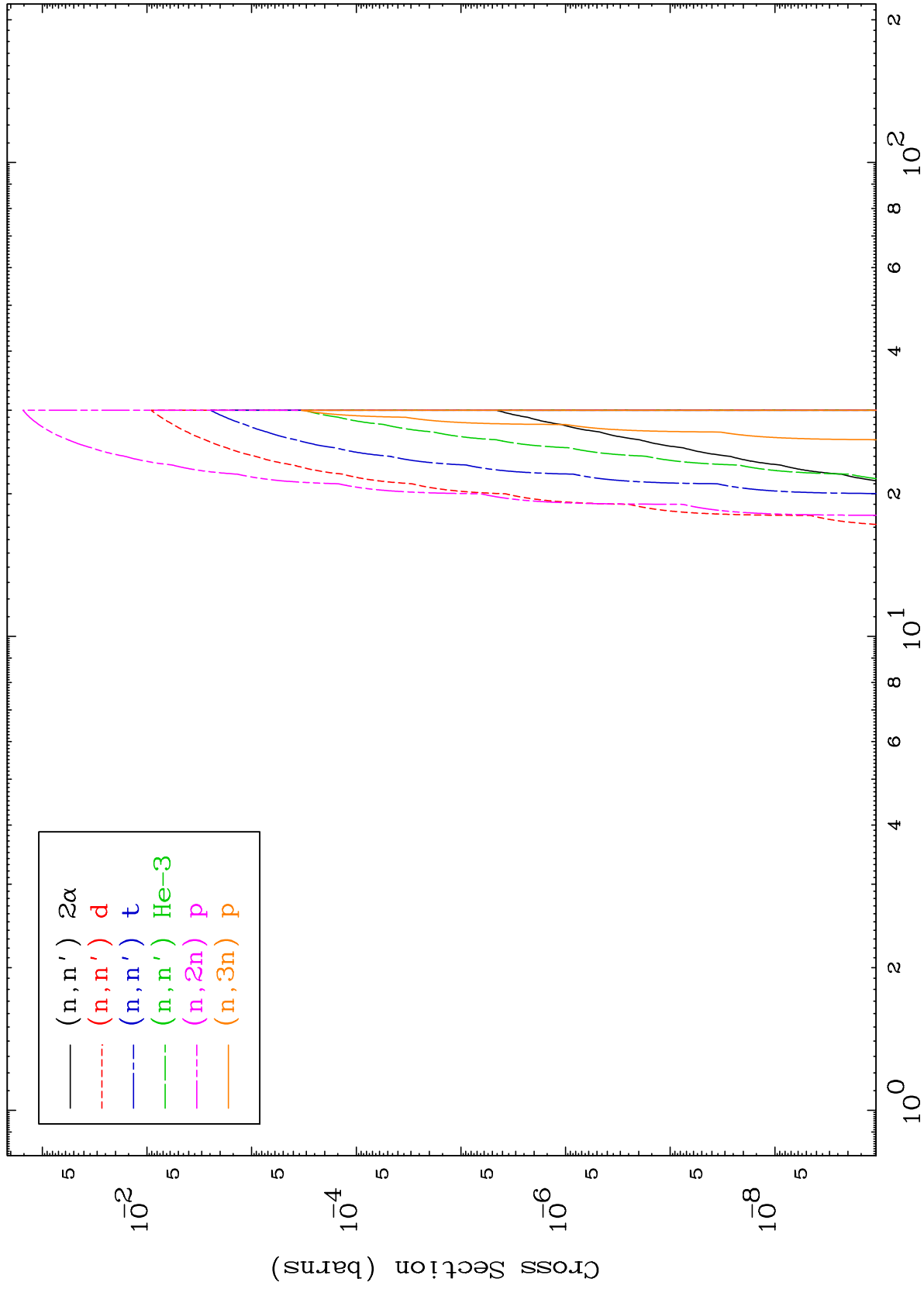
Incident Energy (MeV)

56-Ba-128

MAT 5619

Neutron Production
293 Kelvin Cross Sections

56-Ba-128



3

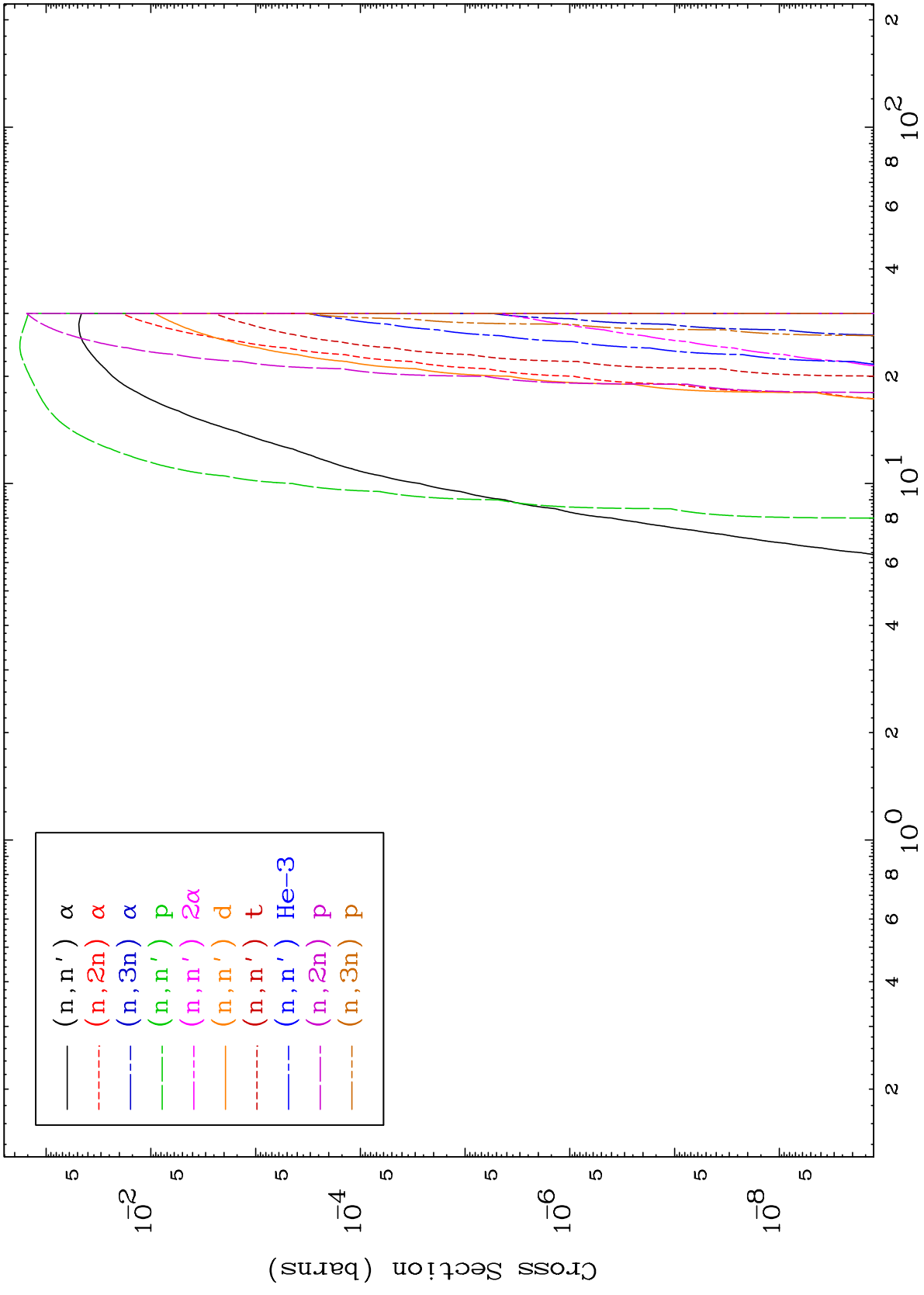
Incident Energy (MeV)

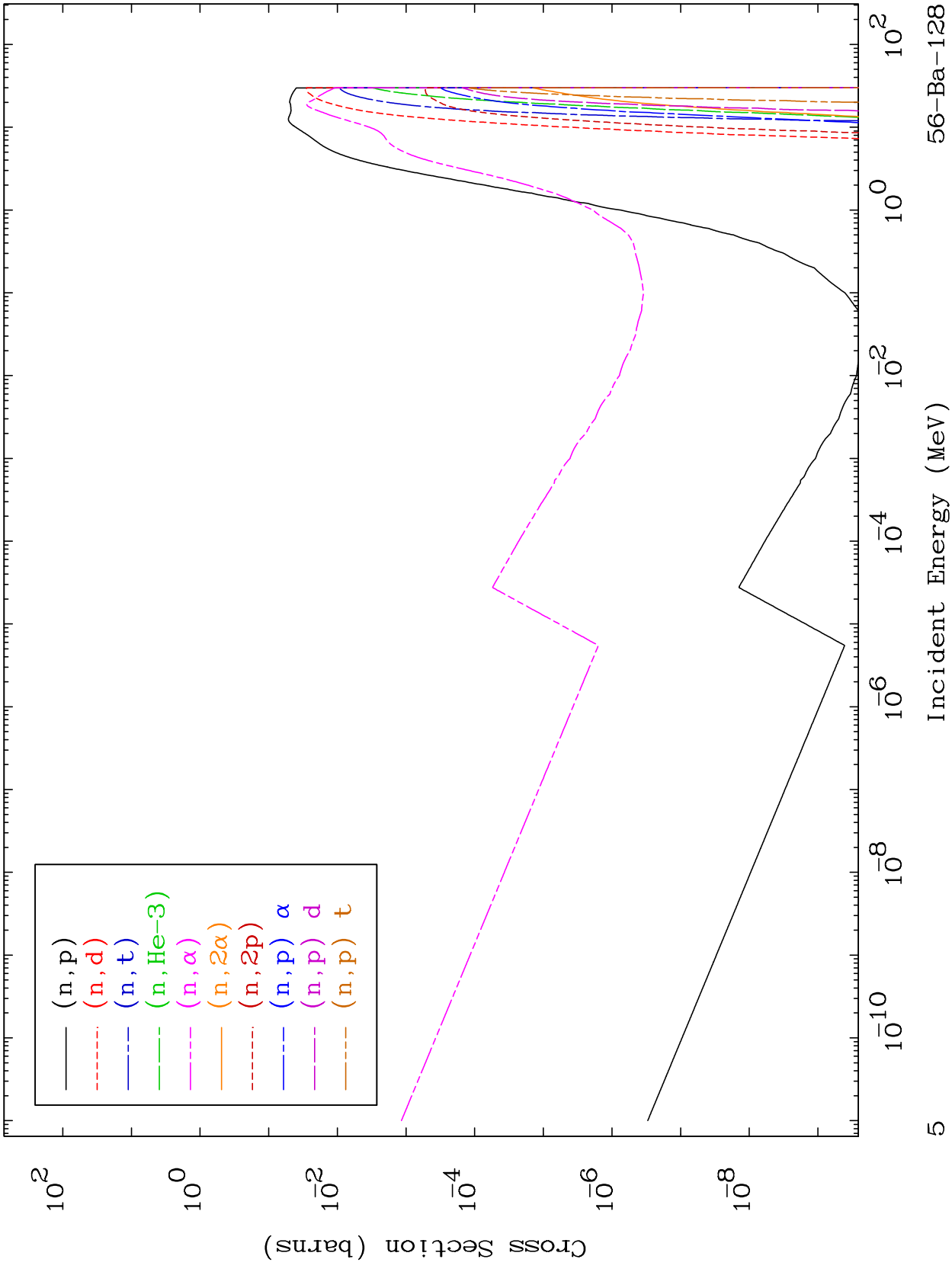
56-Ba-128

MAT 5619

293 Kelvin Cross Sections

56-Ba-128

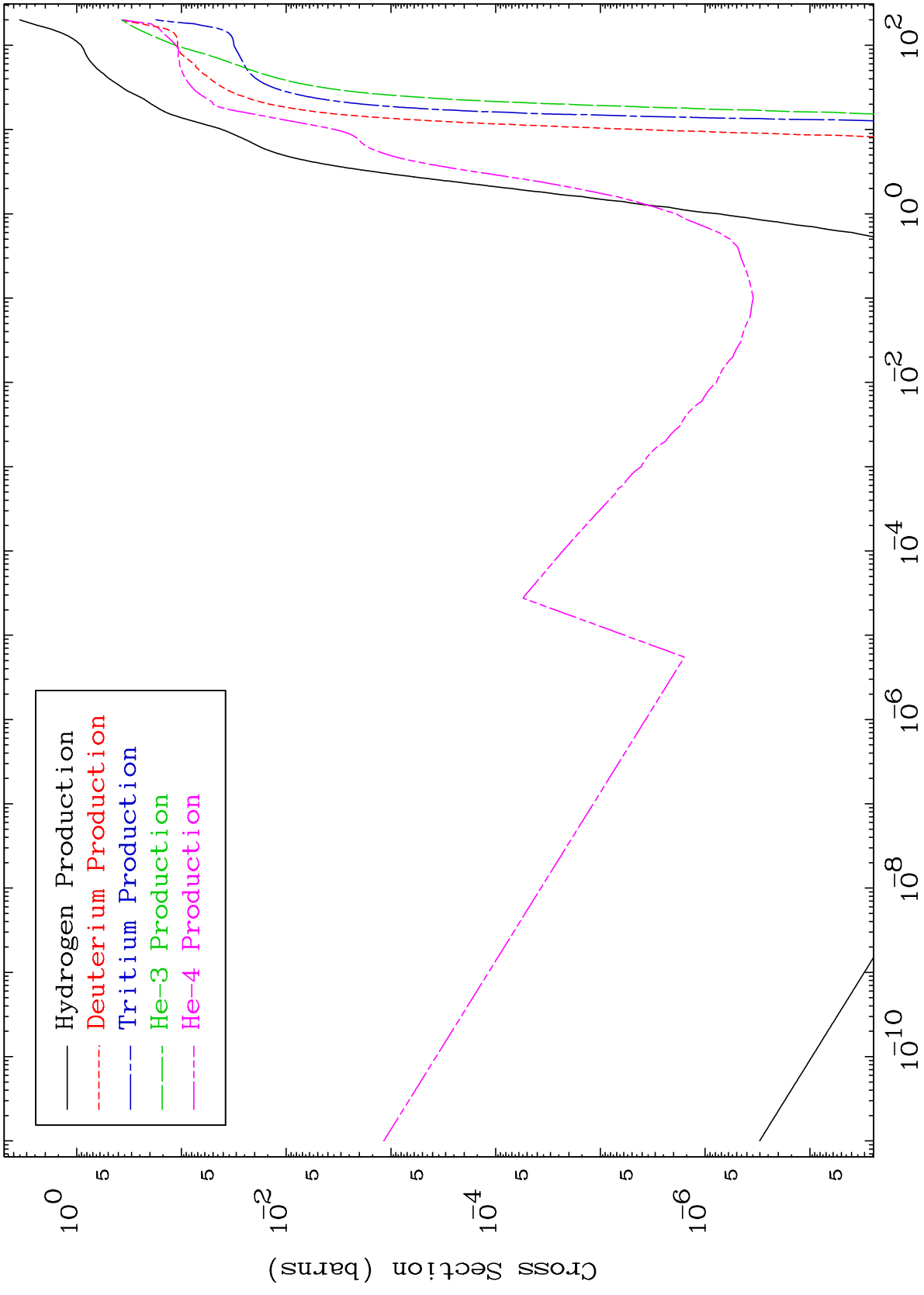




MAT 5619

Particle Production
293 Kelvin Cross Sections

56-Ba-128



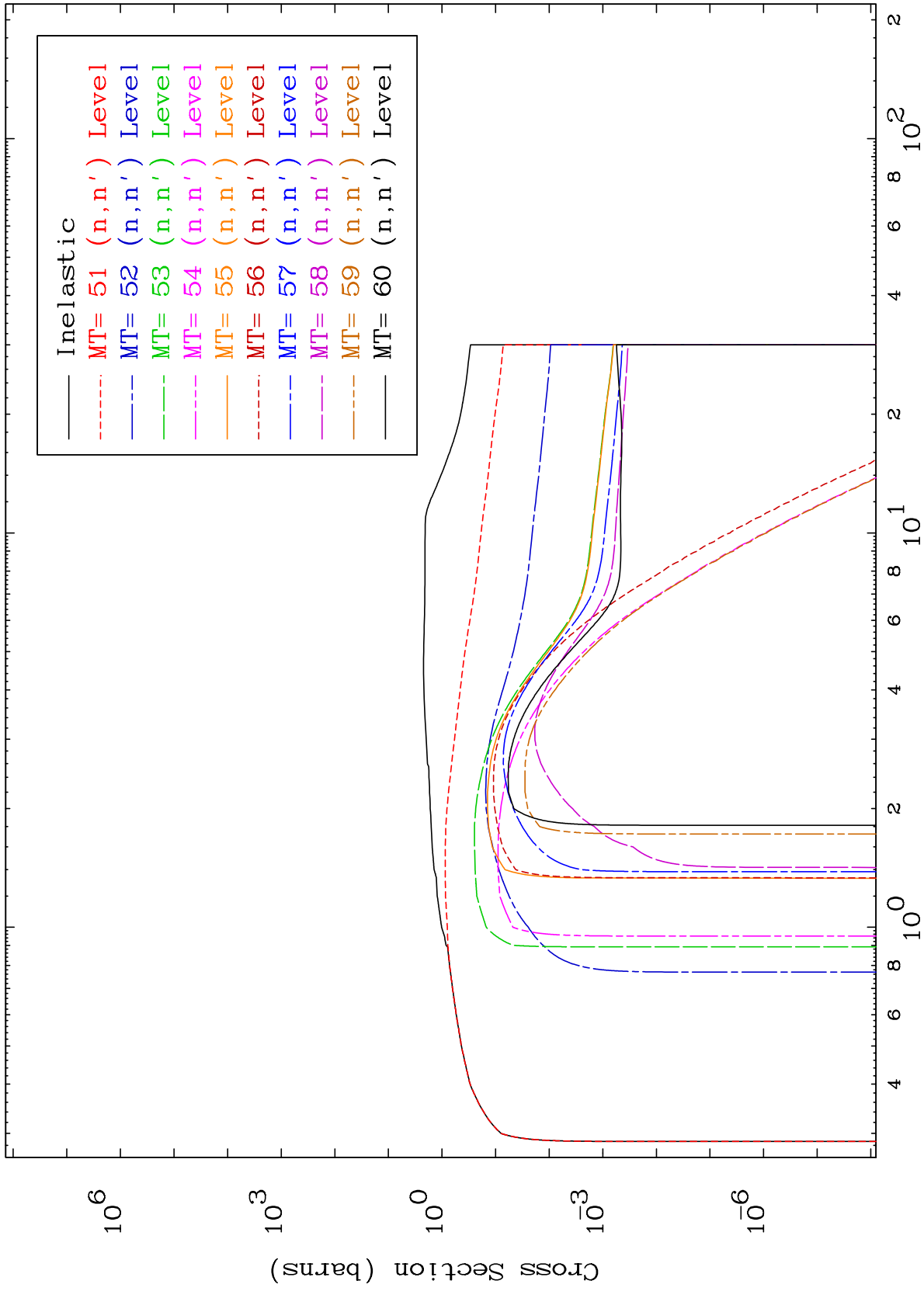
6

56-Ba-128

MAT 5619

(n,n') Level
293 Kelvin Cross Sections

56-Ba-128



7

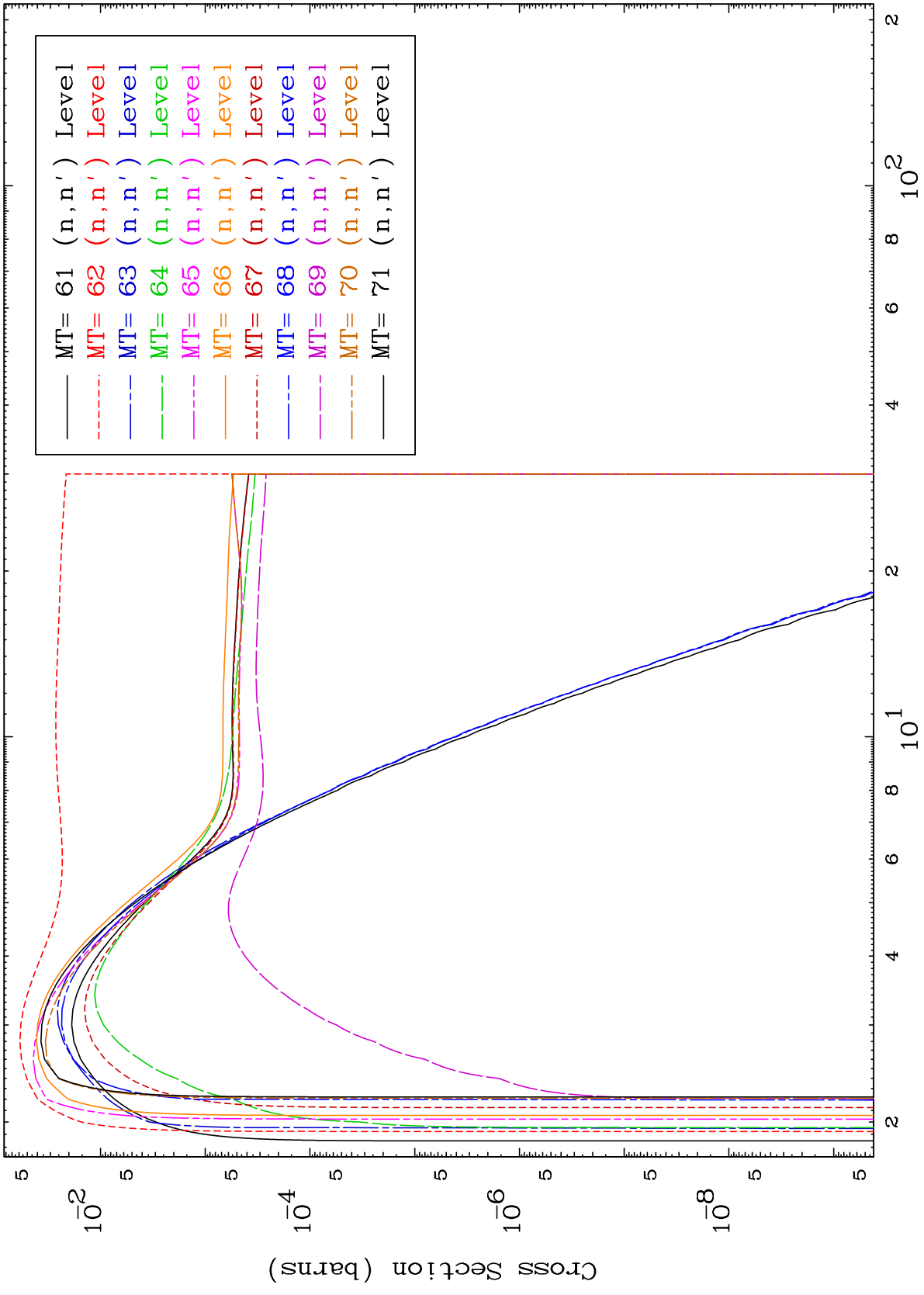
Incident Energy (MeV)

56-Ba-128

MAT 5619

(n,n') Level
293 Kelvin Cross Sections

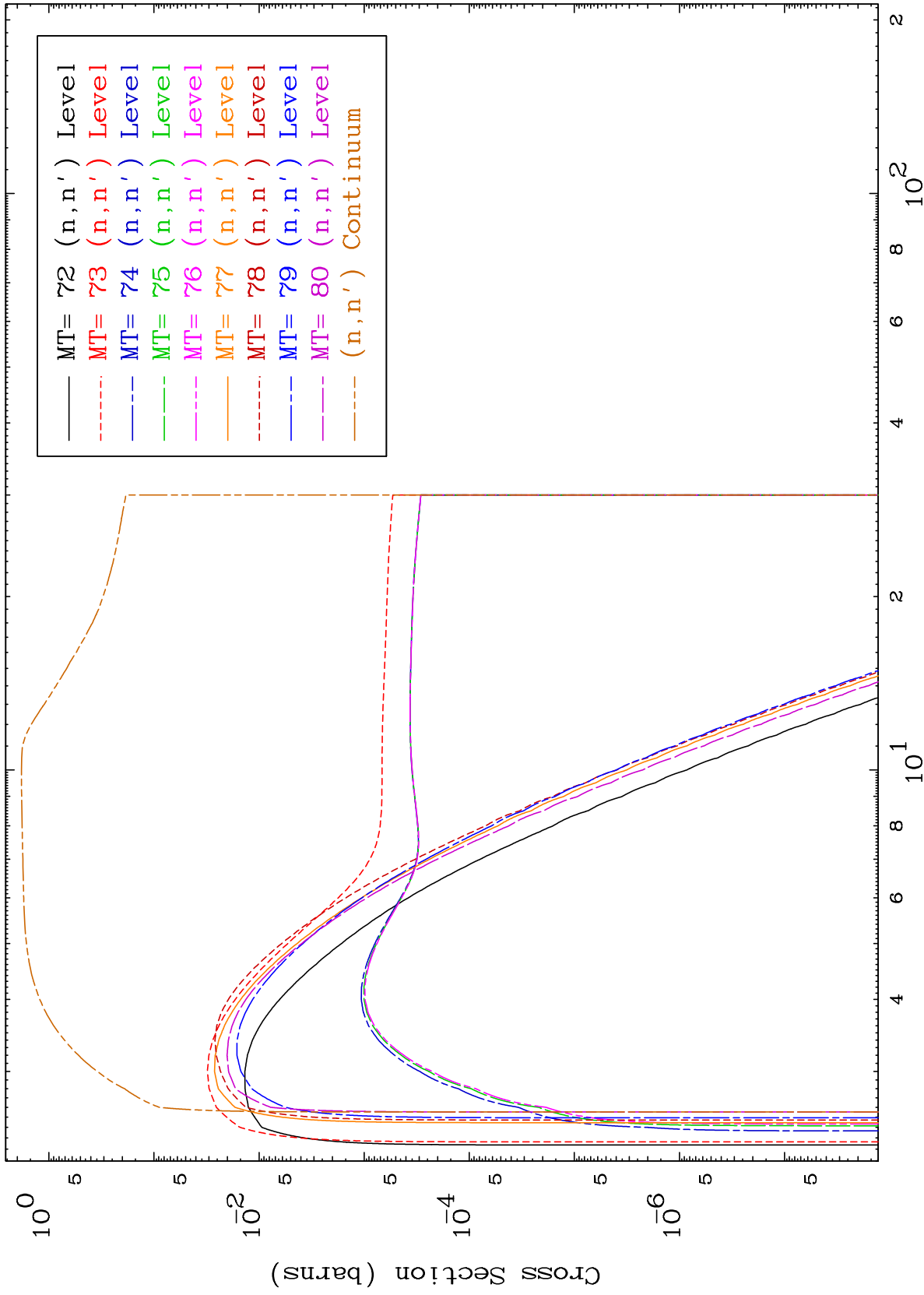
56-Ba-128



8

Incident Energy (MeV)

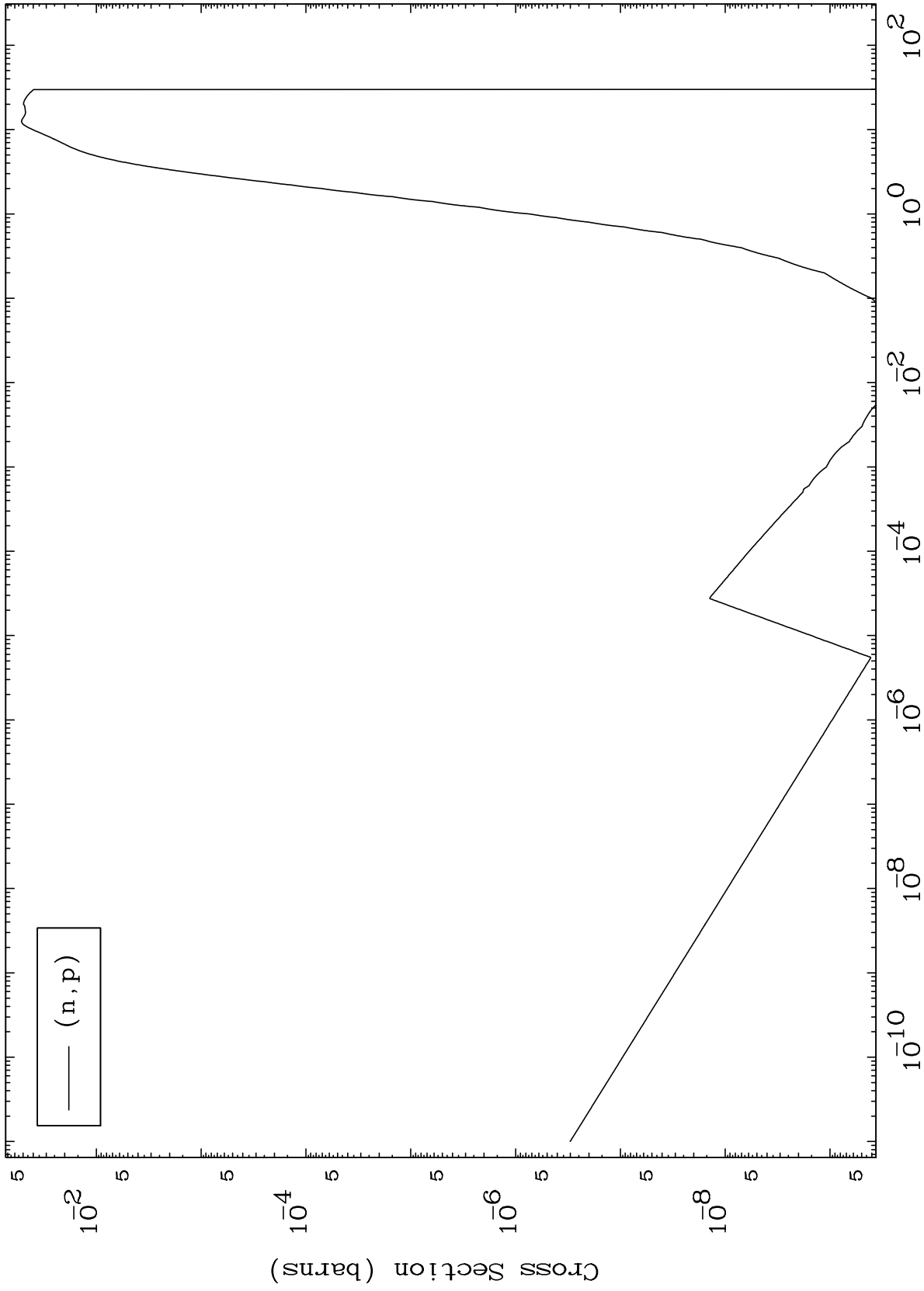
56-Ba-128



MAT 5619

(n,p) Levels
293 Kelvin Cross Sections

56-Ba-128



10

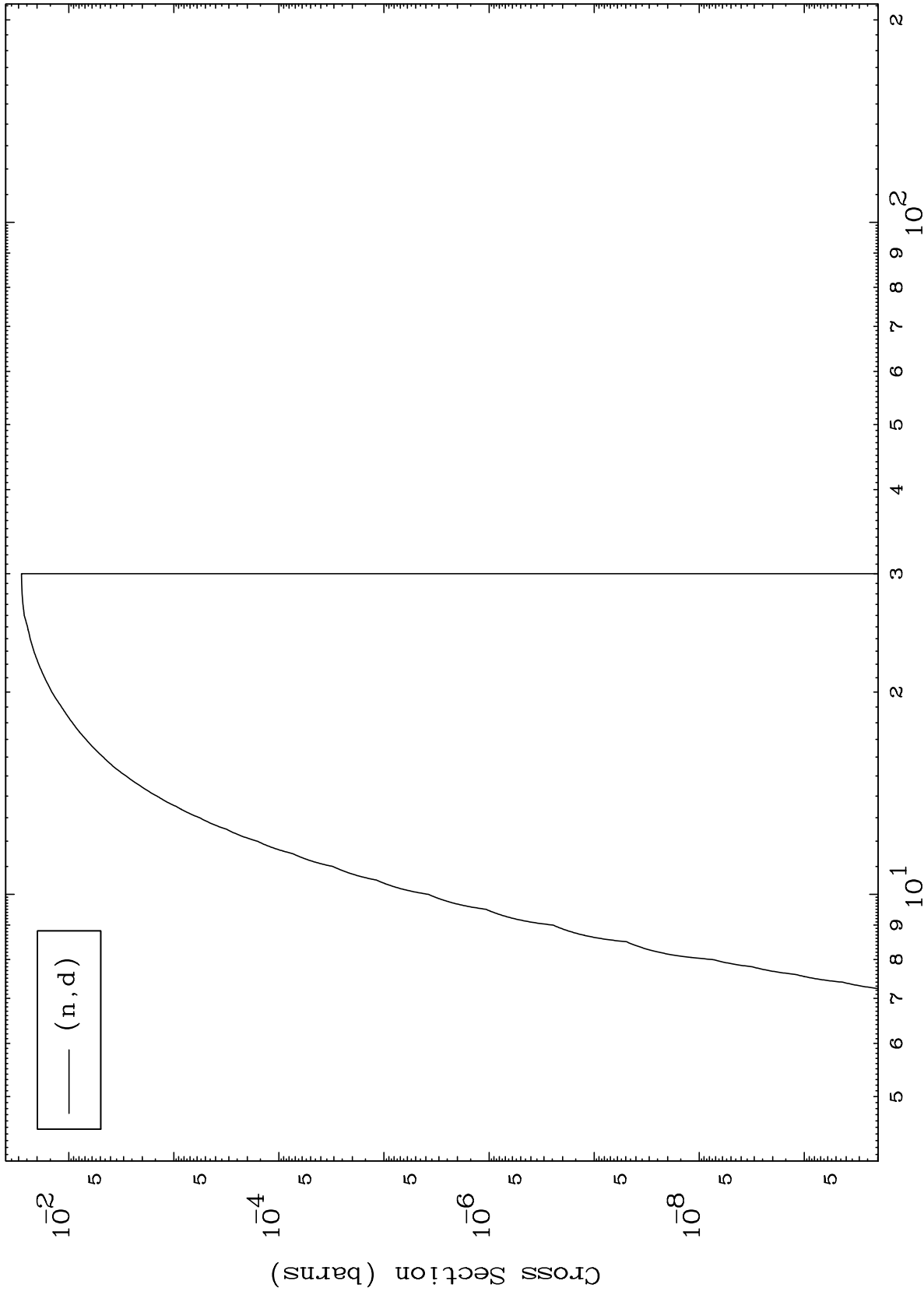
Incident Energy (MeV)

56-Ba-128

MAT 5619

(n,d) Levels
293 Kelvin Cross Sections

56-Ba-128



11

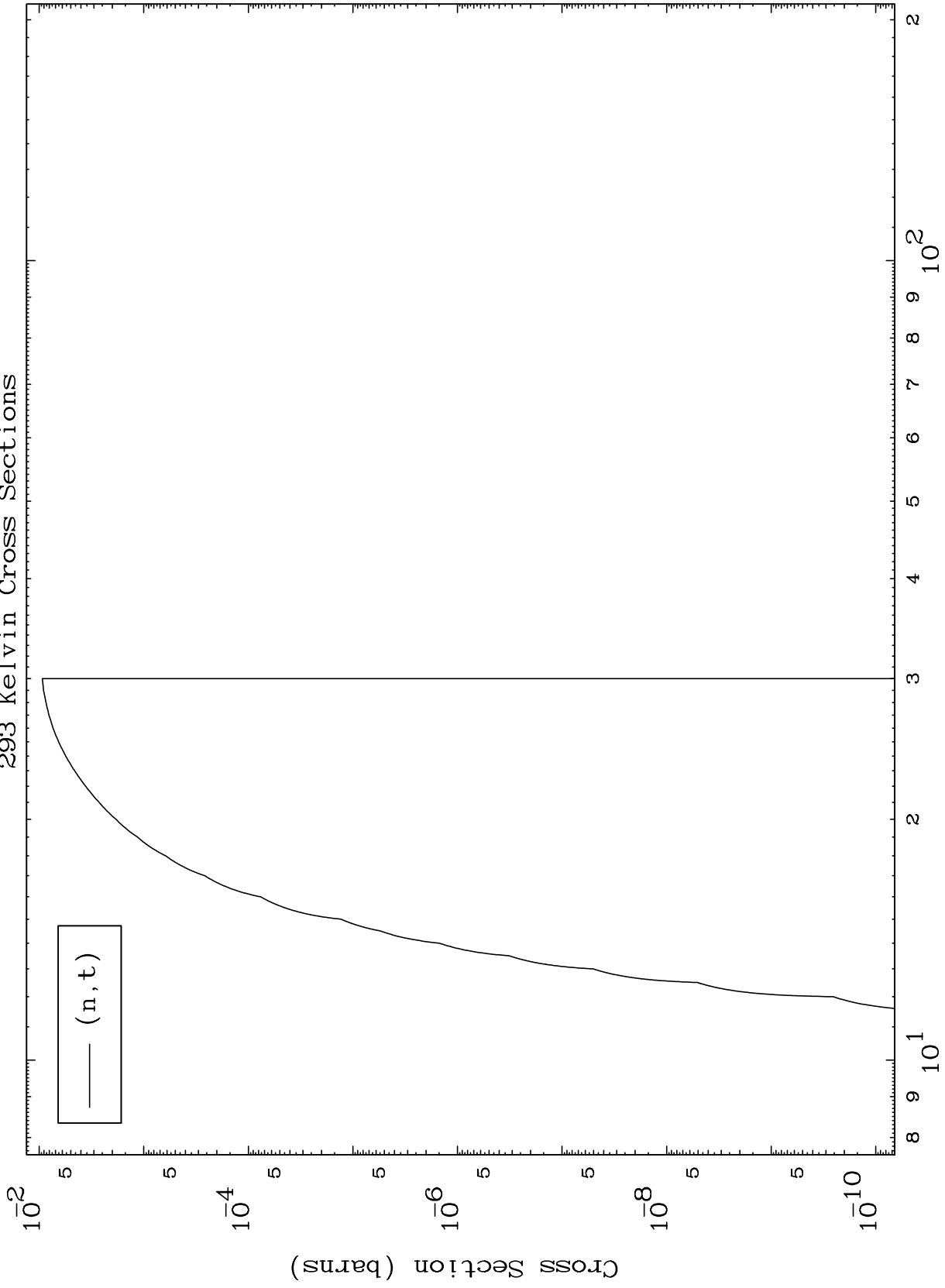
Incident Energy (MeV)

56-Ba-128

MAT 5619

(n,t) Levels
293 Kelvin Cross Sections

56-Ba-128



12

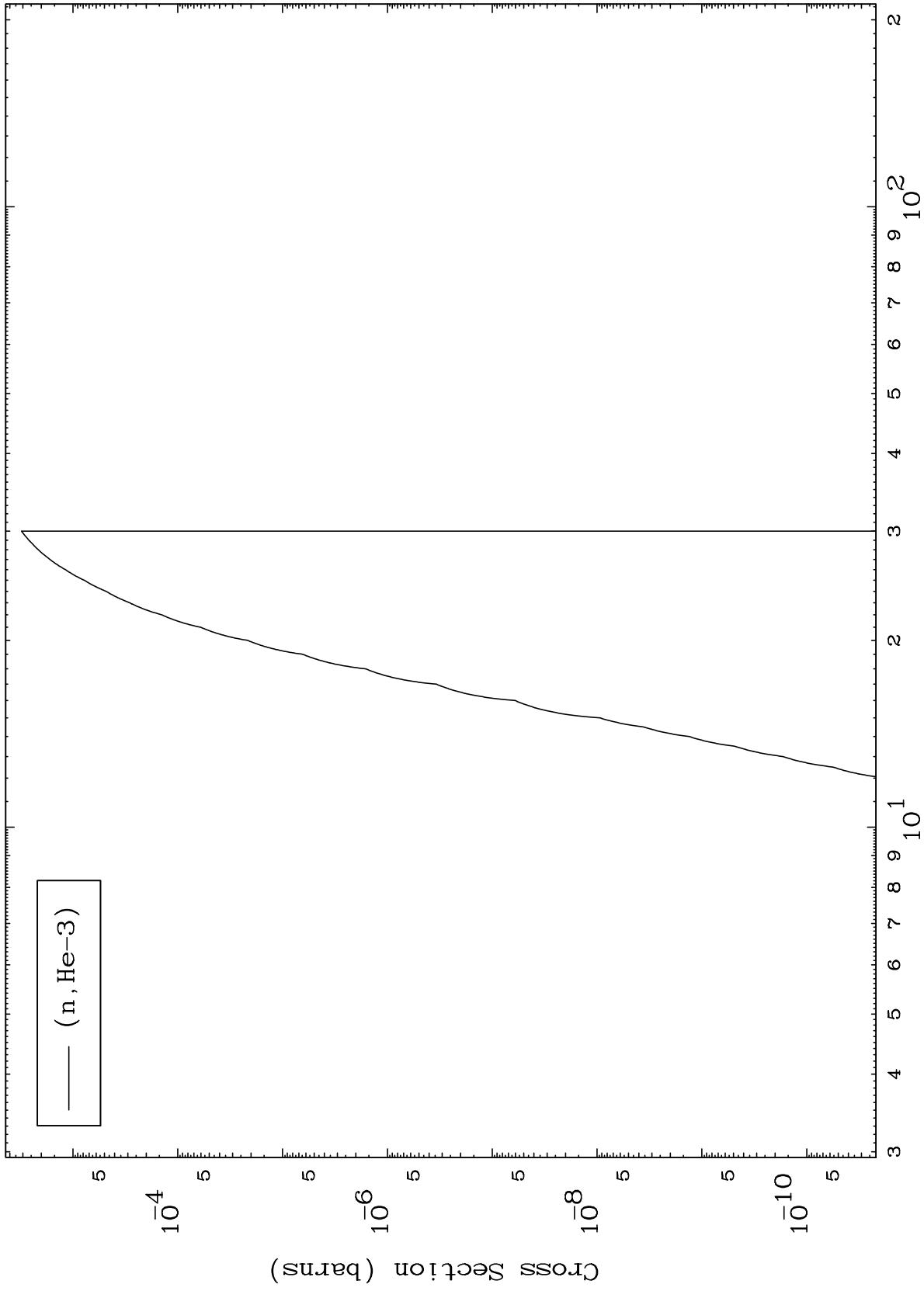
Incident Energy (MeV)

56-Ba-128

MAT 5619

(n,He3) Levels
293 Kelvin Cross Sections

56-Ba-128



13

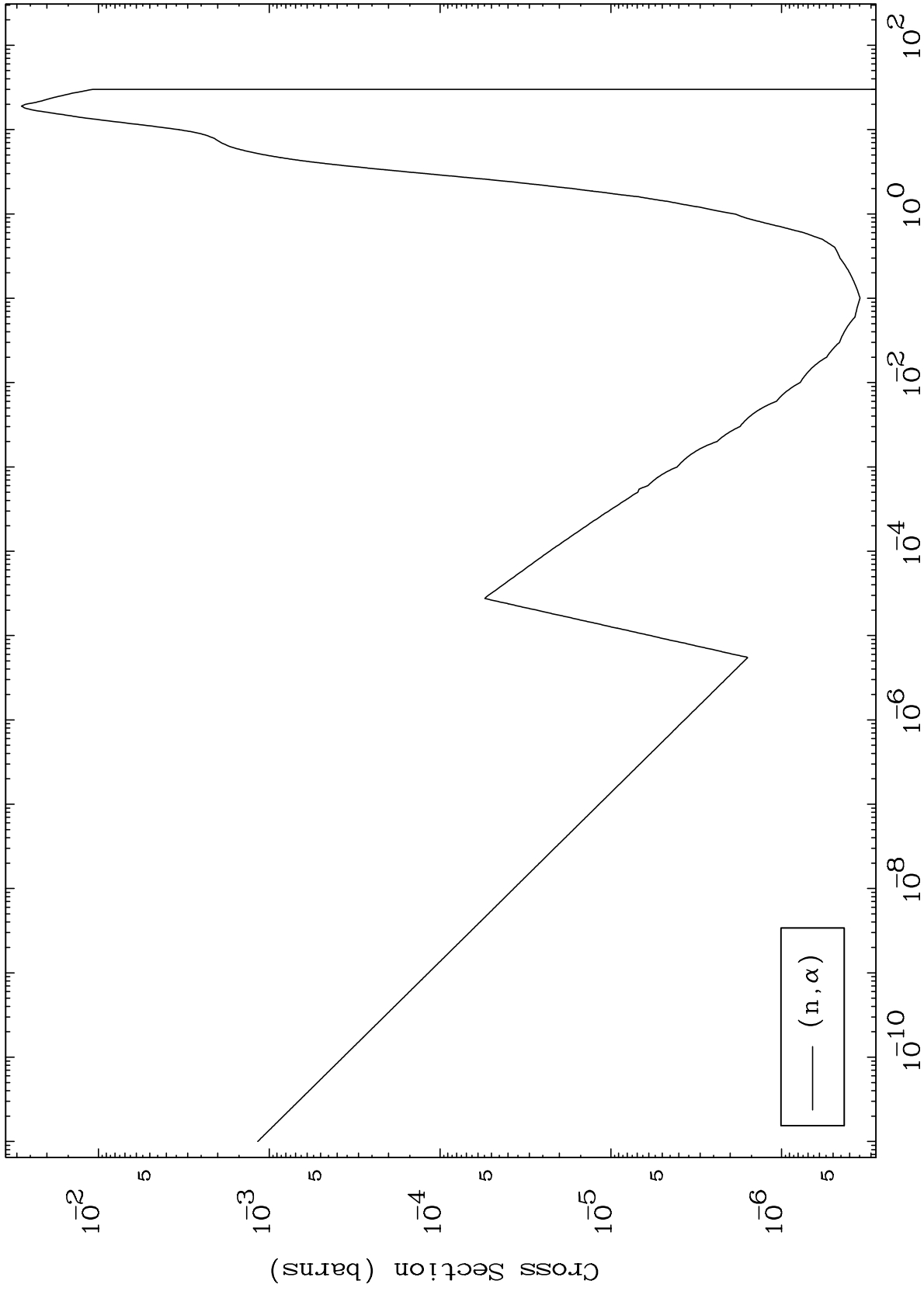
Incident Energy (MeV)

56-Ba-128

MAT 5619

(n,α) Levels
293 Kelvin Cross Sections

56-Ba-128

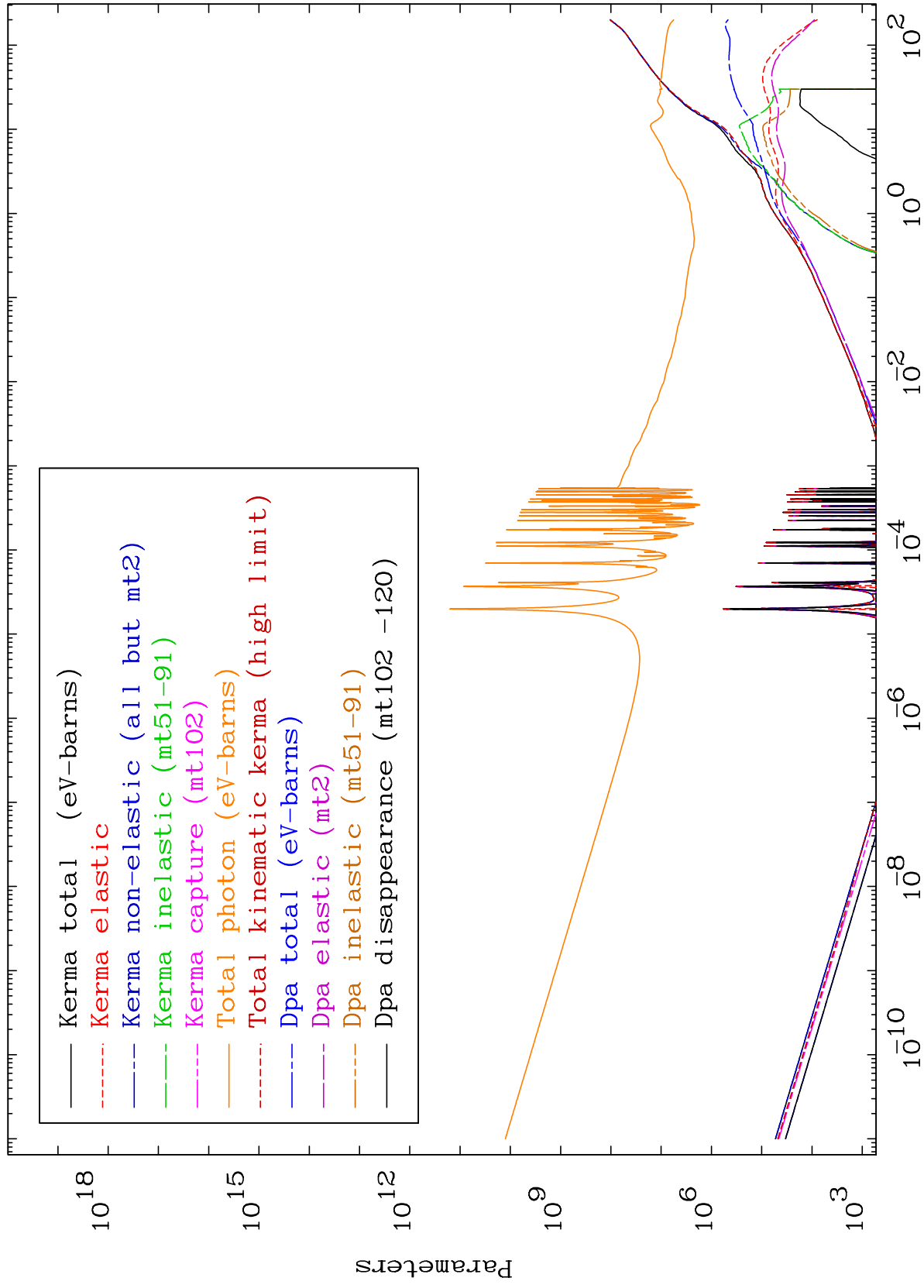


14

Incident Energy (MeV)

56-Ba-128

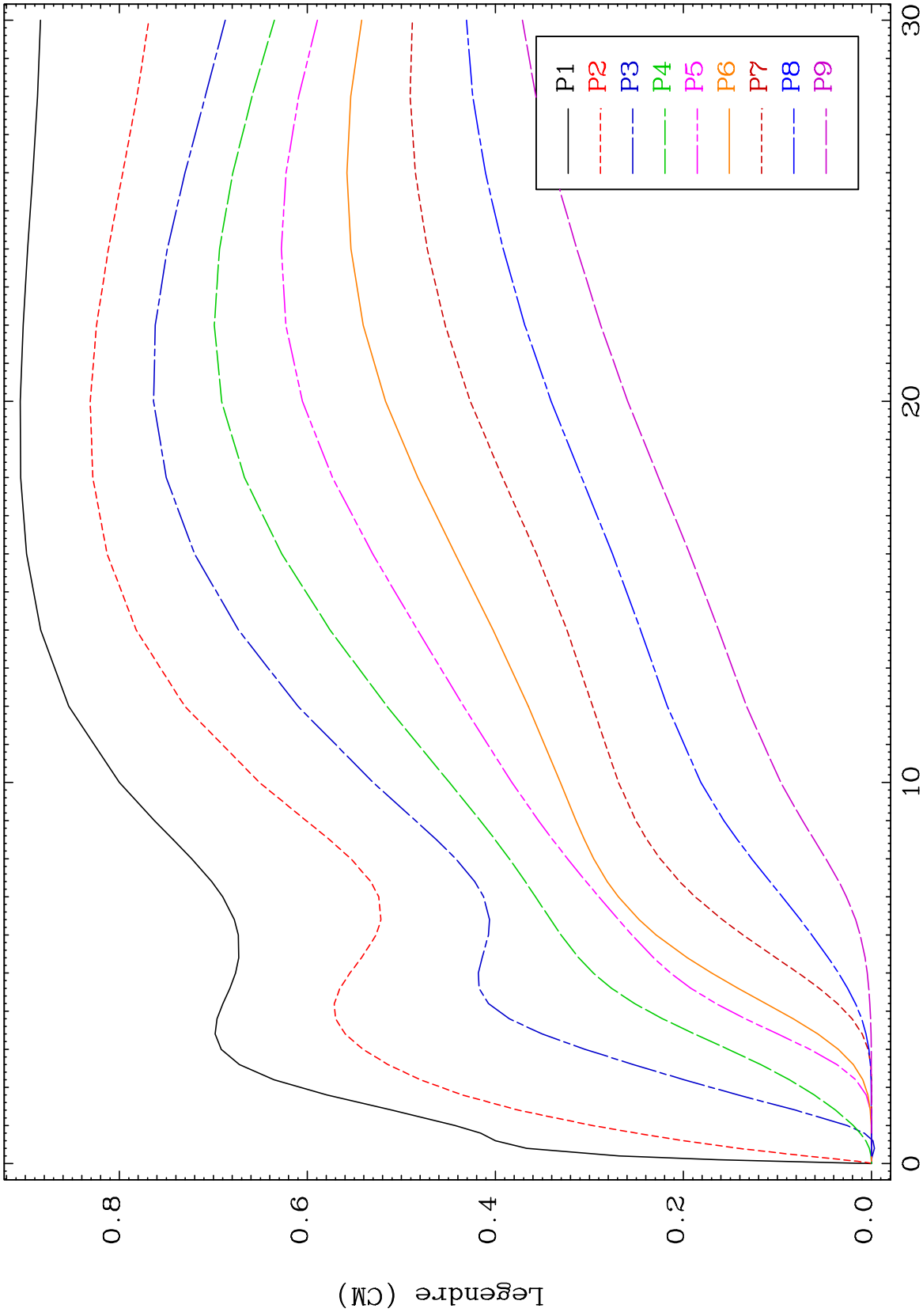
— (n,α)



MAT 5619

Elastic Legendre Coefficients

56-Ba-128



16

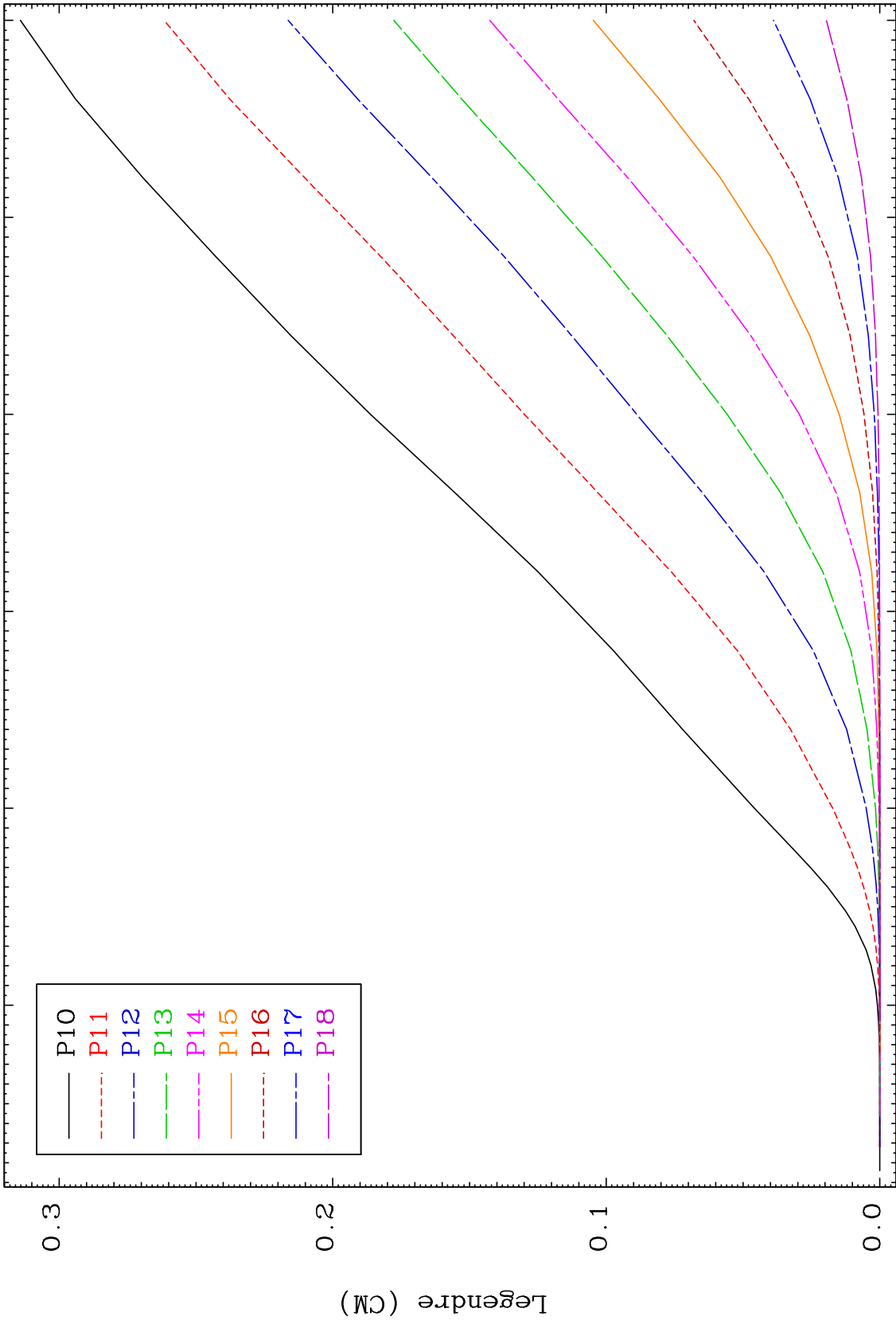
Incident Energy (MeV)

56-Ba-128

MAT 5619

Elastic Legendre Coefficients

56-Ba-128



17

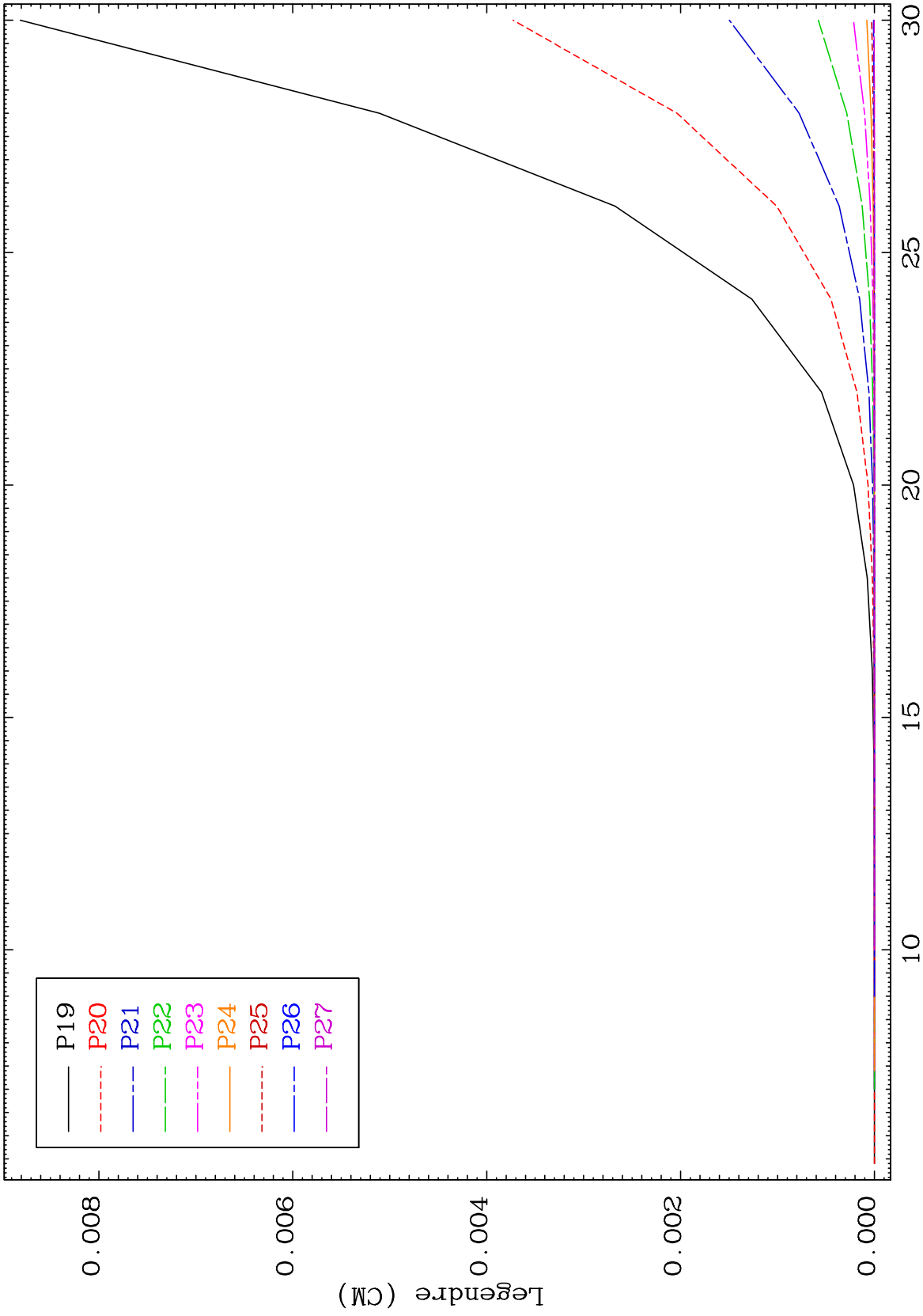
Incident Energy (MeV)

56-Ba-128

MAT 5619

Elastic Legendre Coefficients

56-Ba-128



18

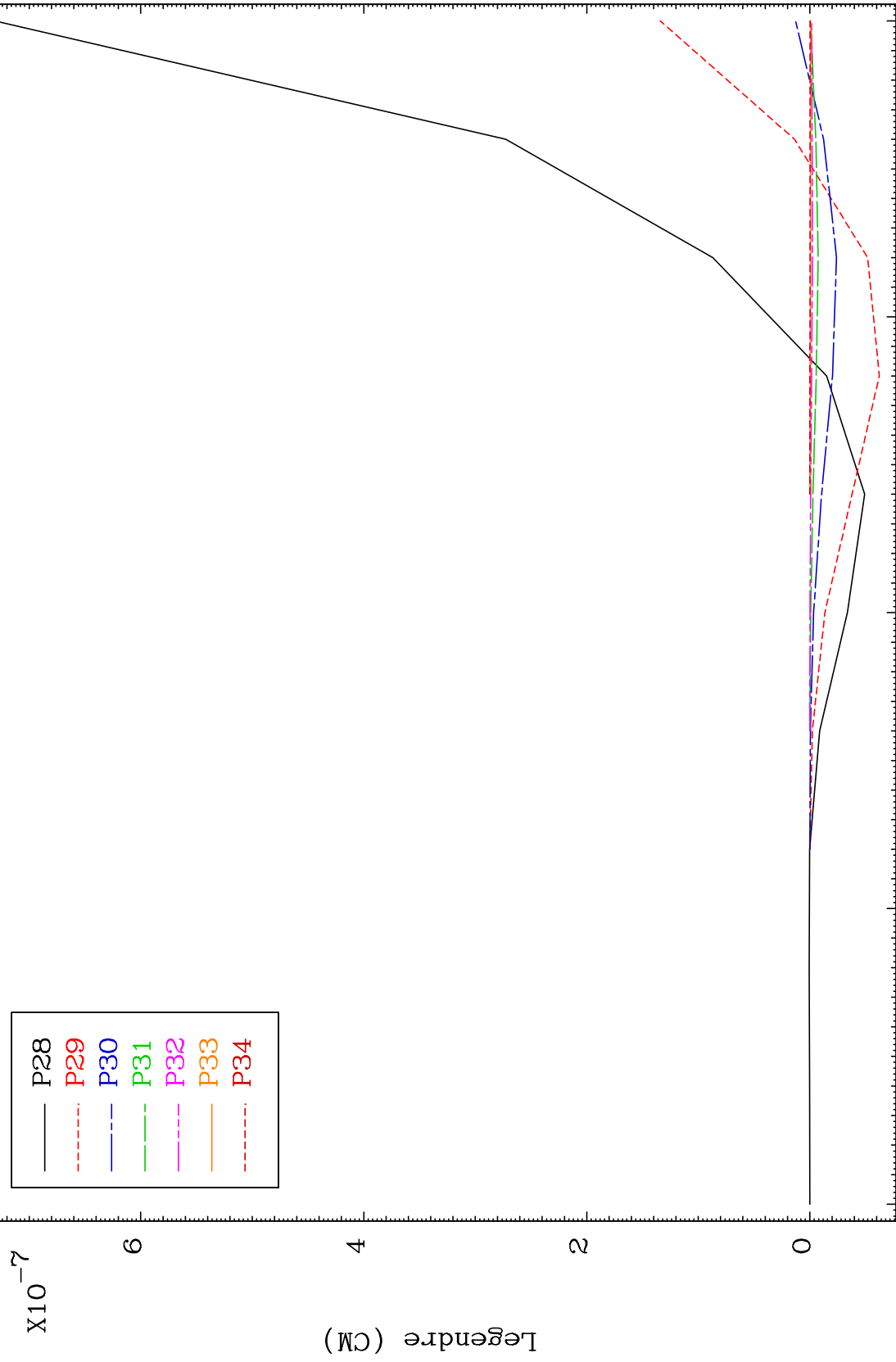
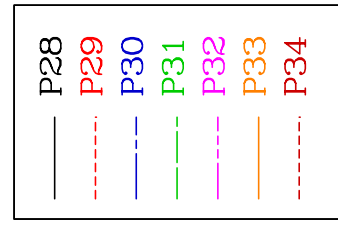
Incident Energy (MeV)

56-Ba-128

MAT 5619

Elastic Legendre Coefficients

56-Ba-128



19

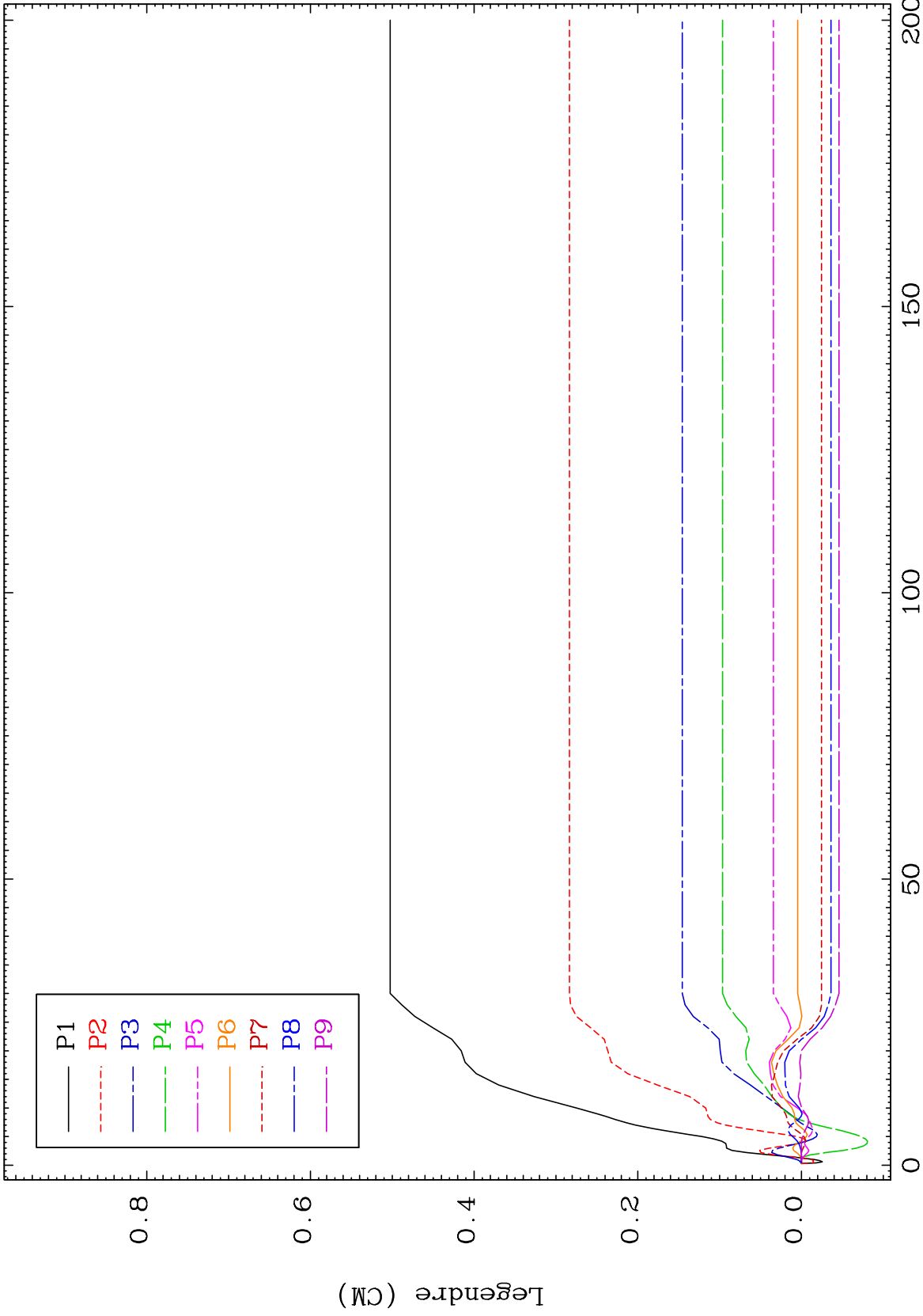
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



20

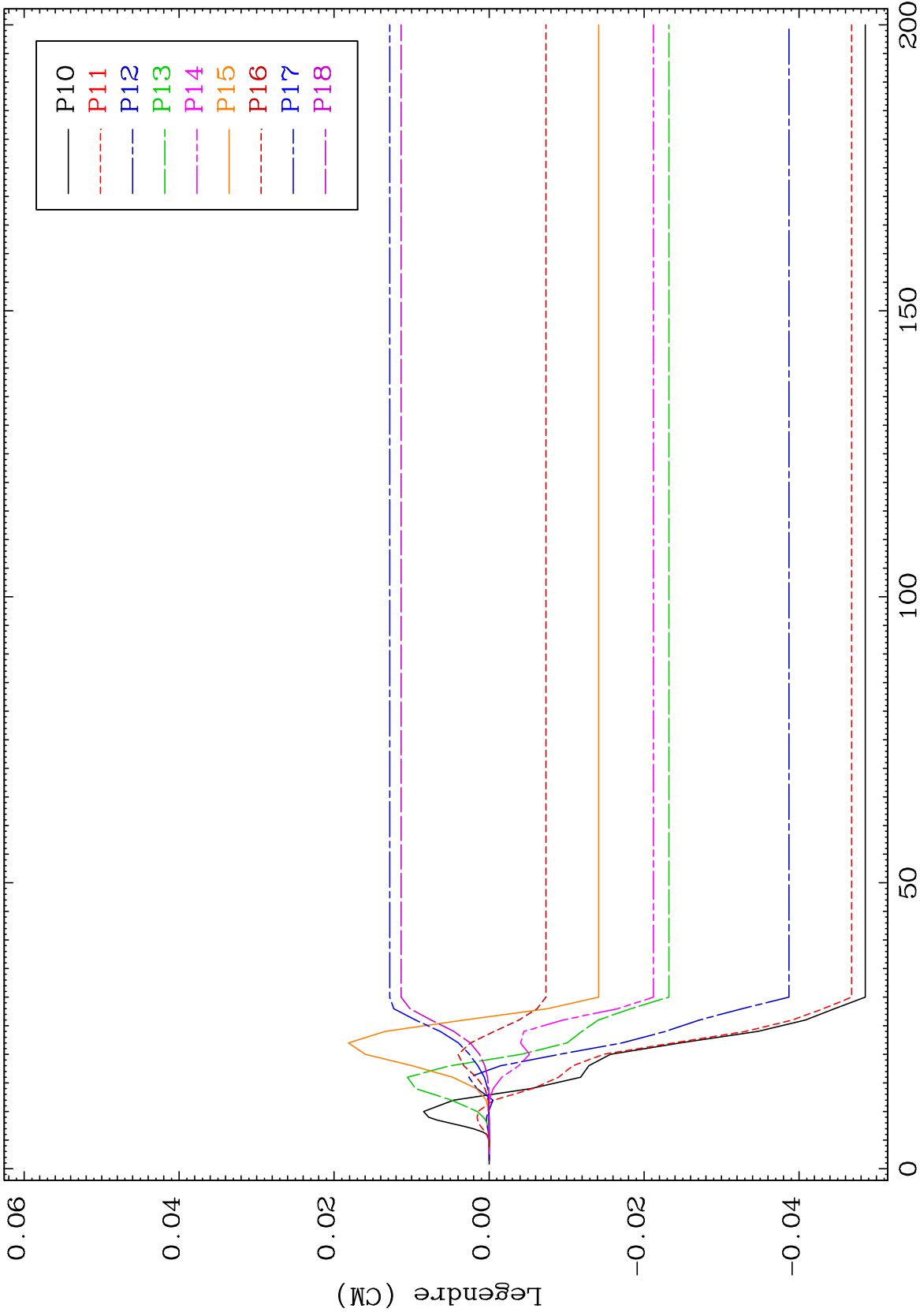
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



21

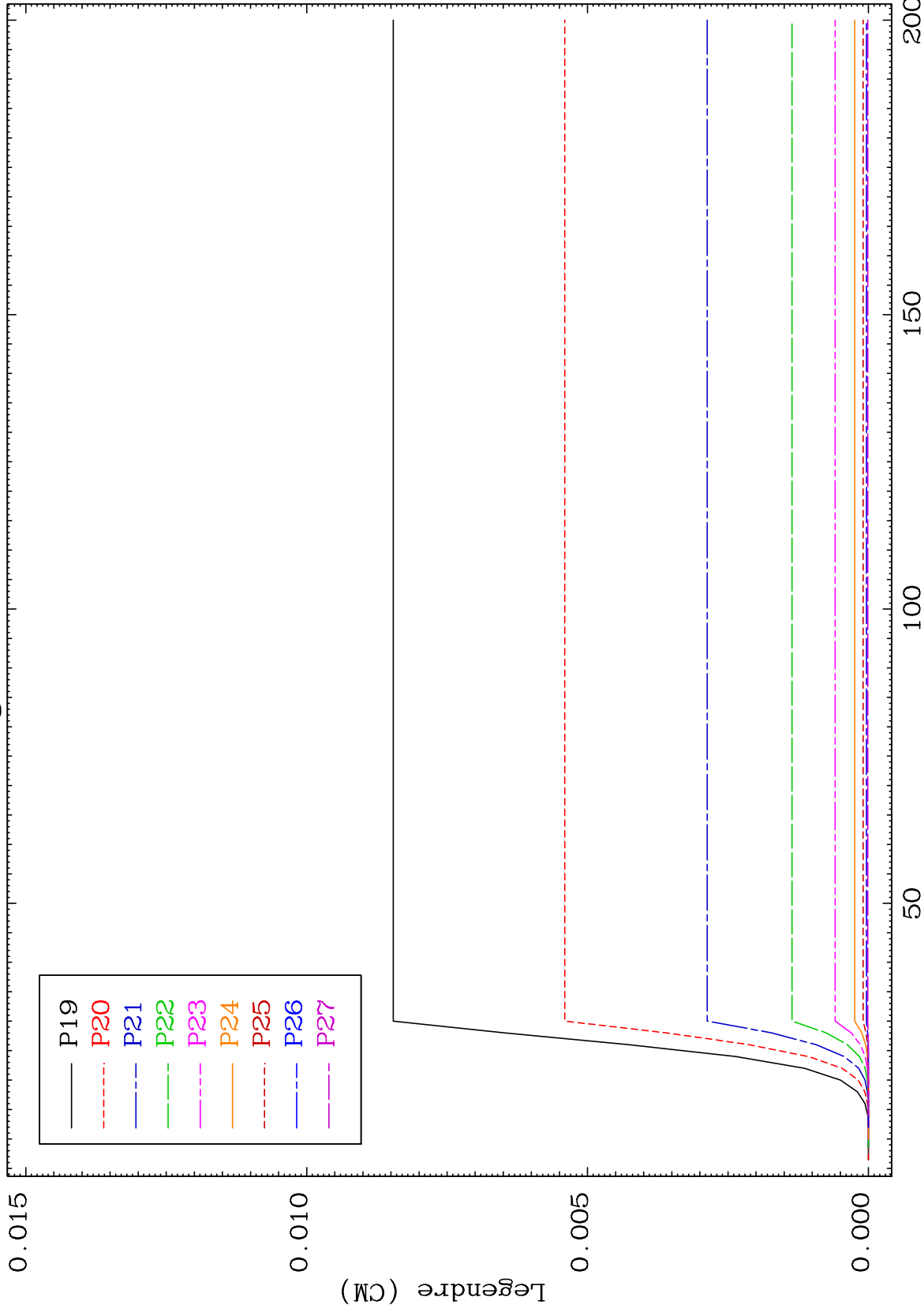
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



22

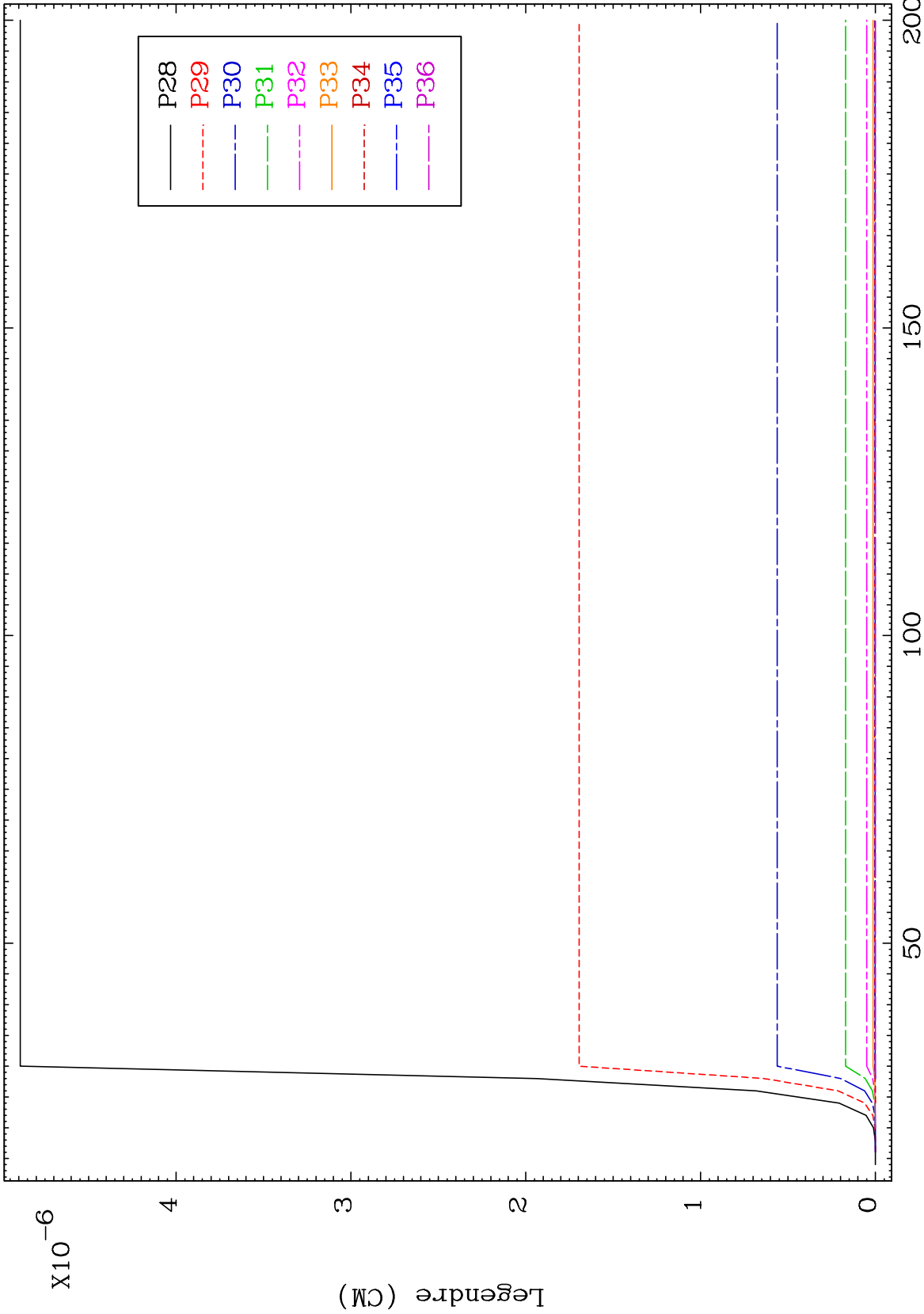
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



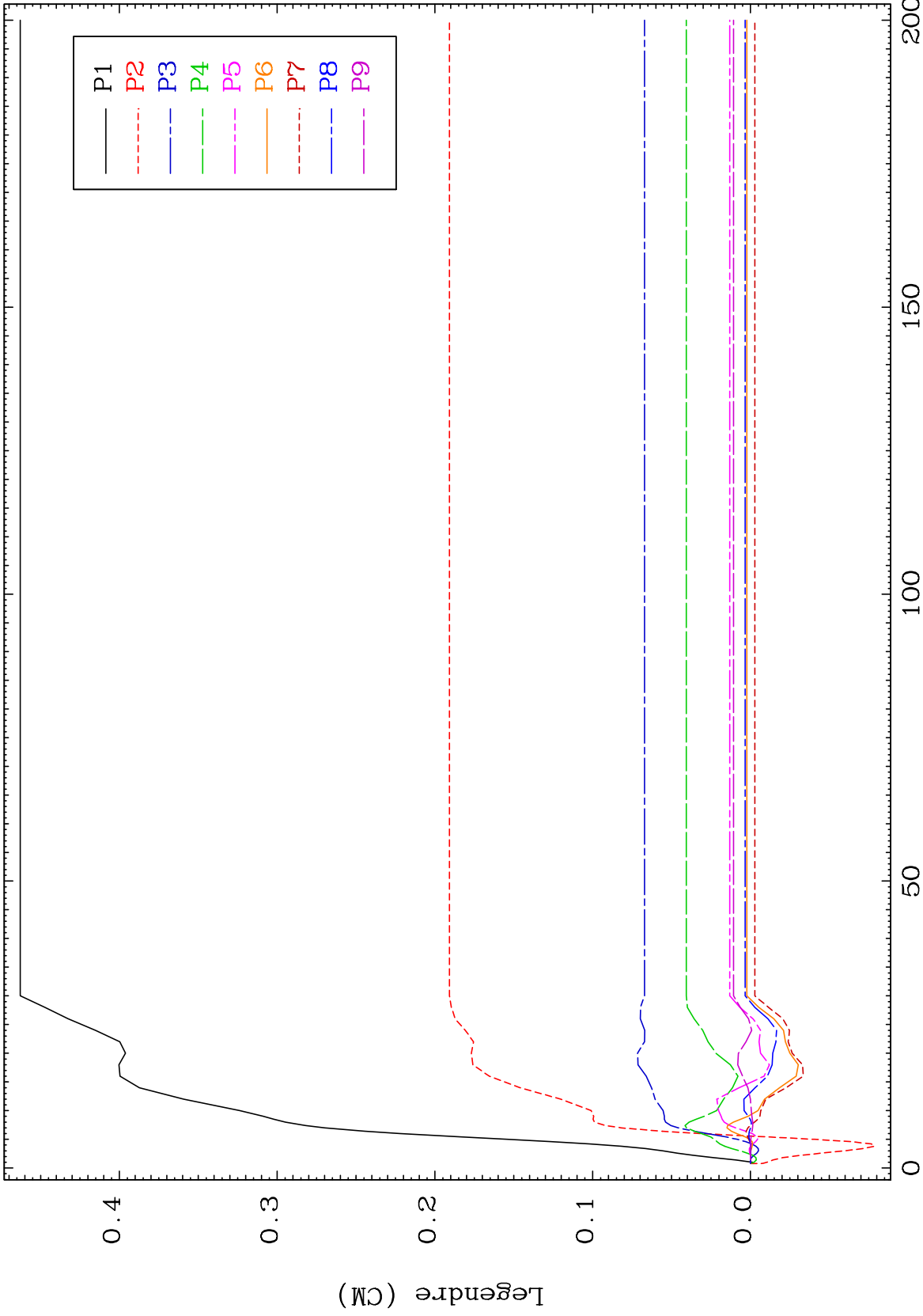
23

56-Ba-128

MAT 5619

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

56-Ba-128



24

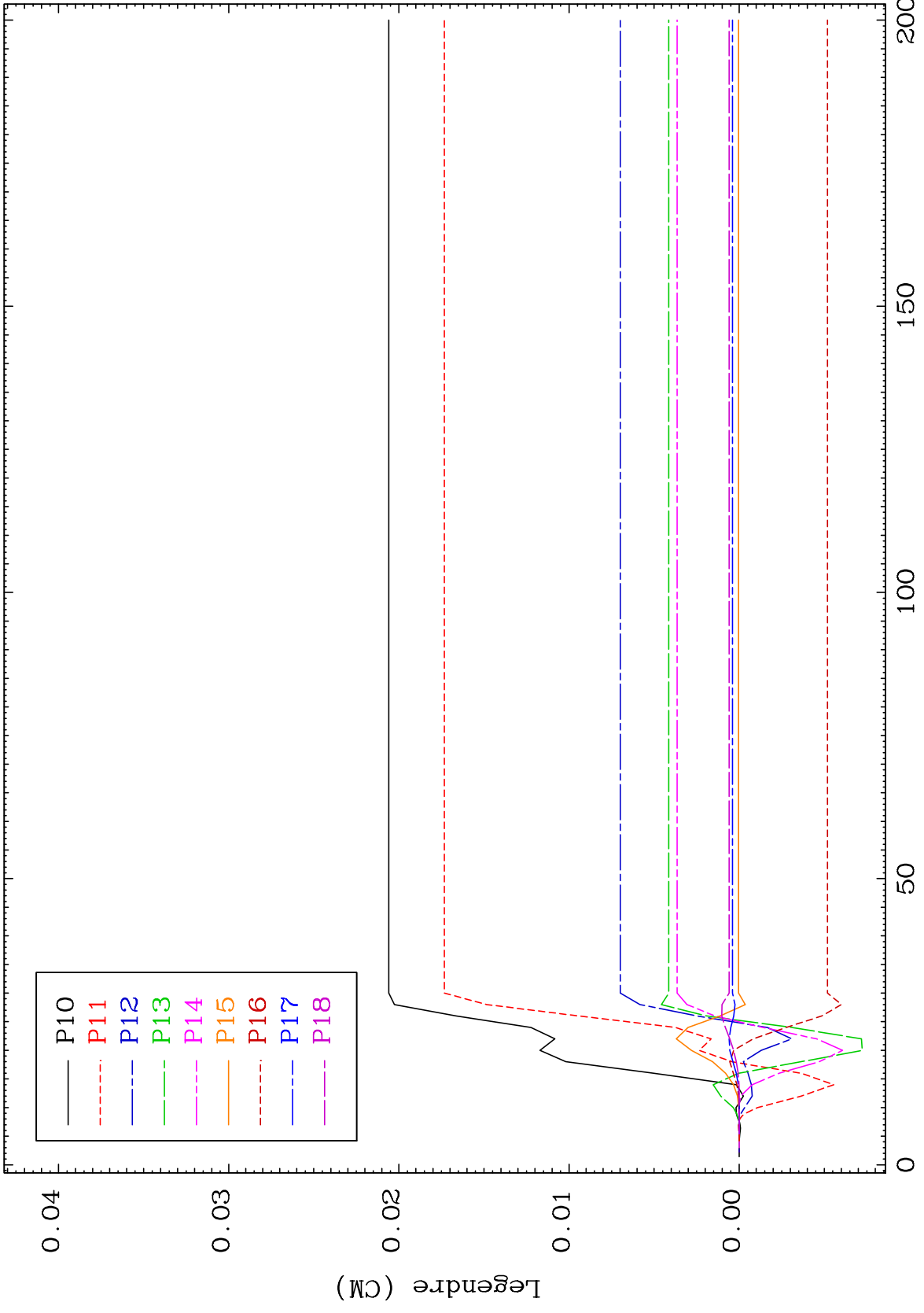
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



25

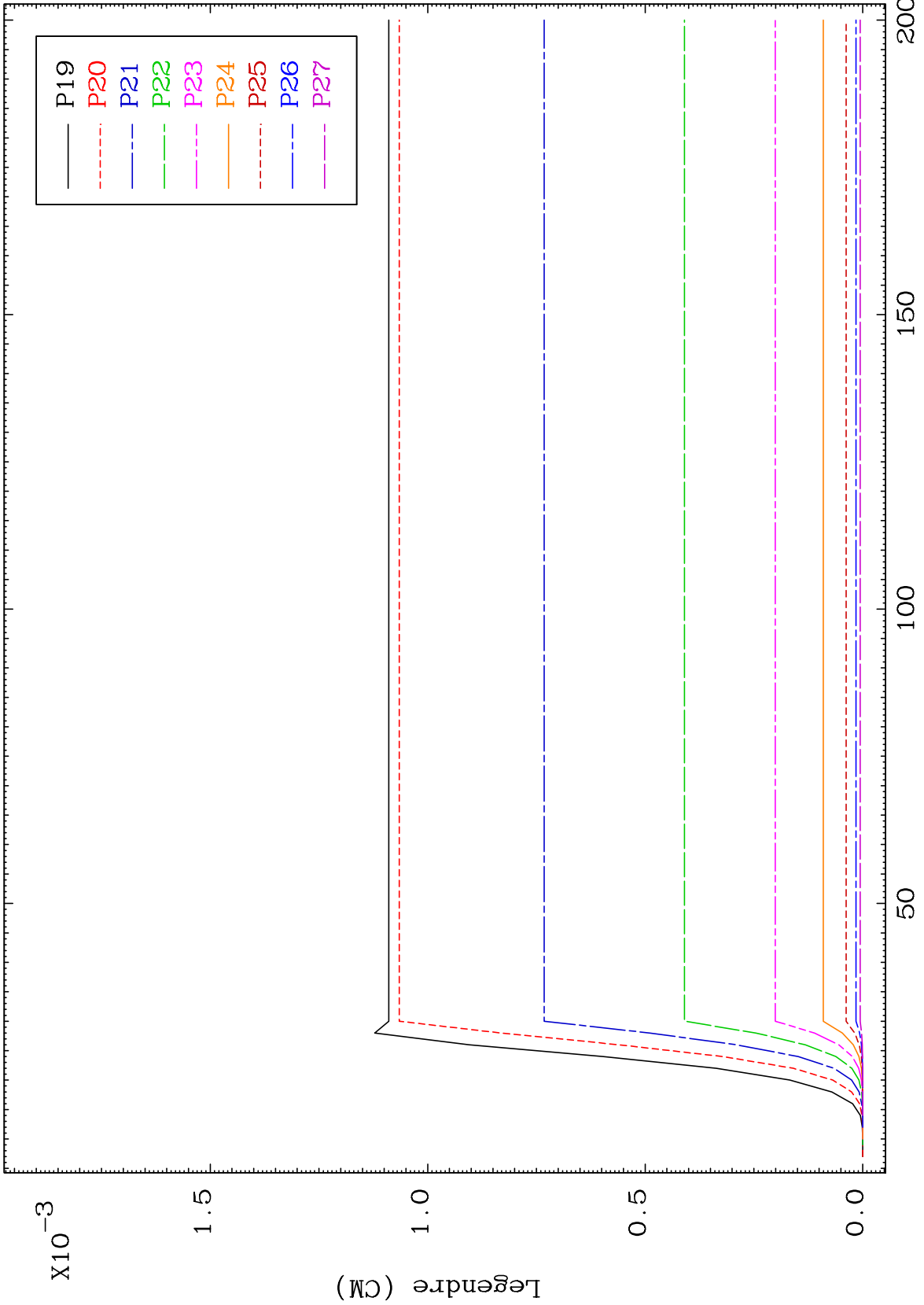
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



26

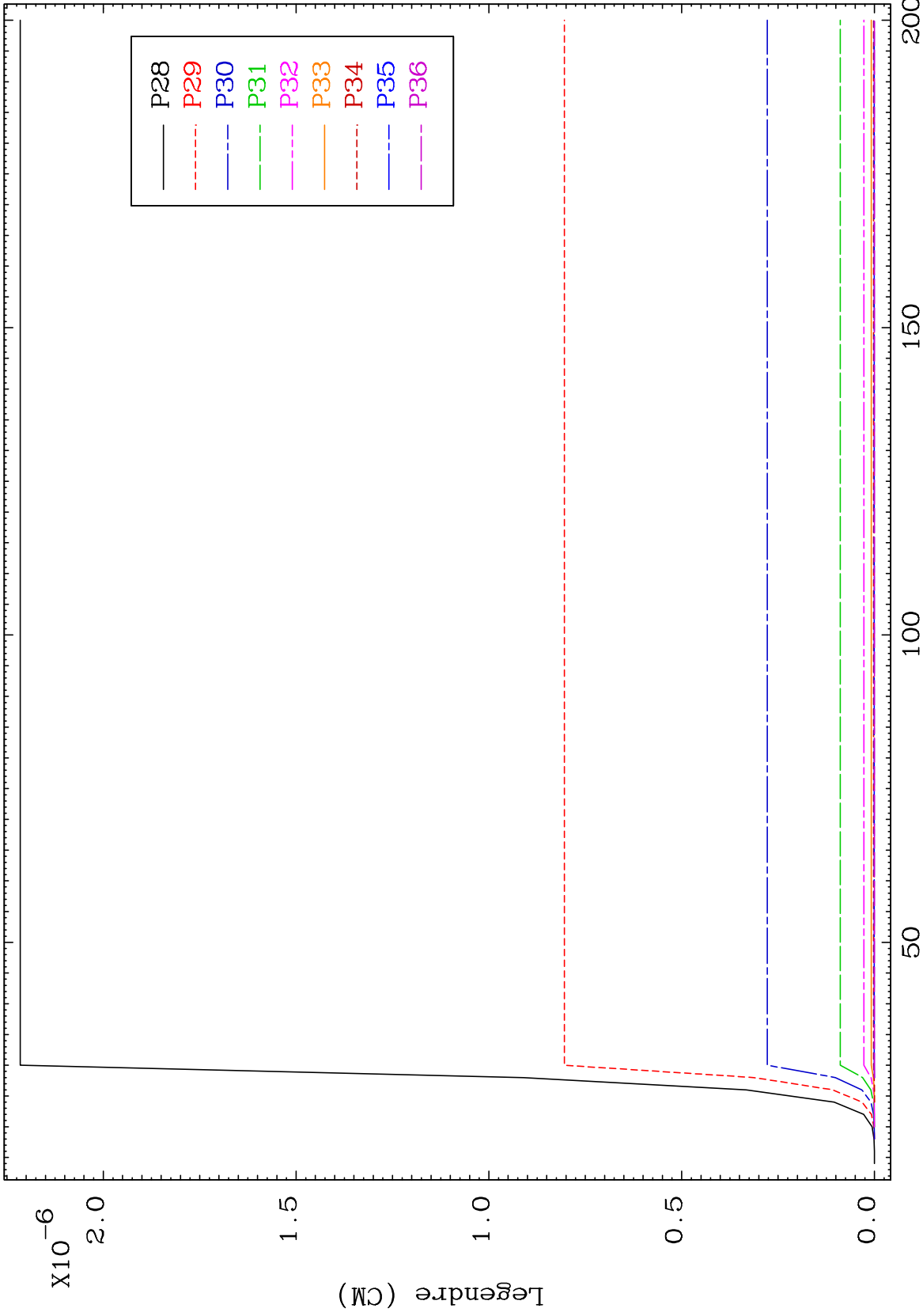
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



27

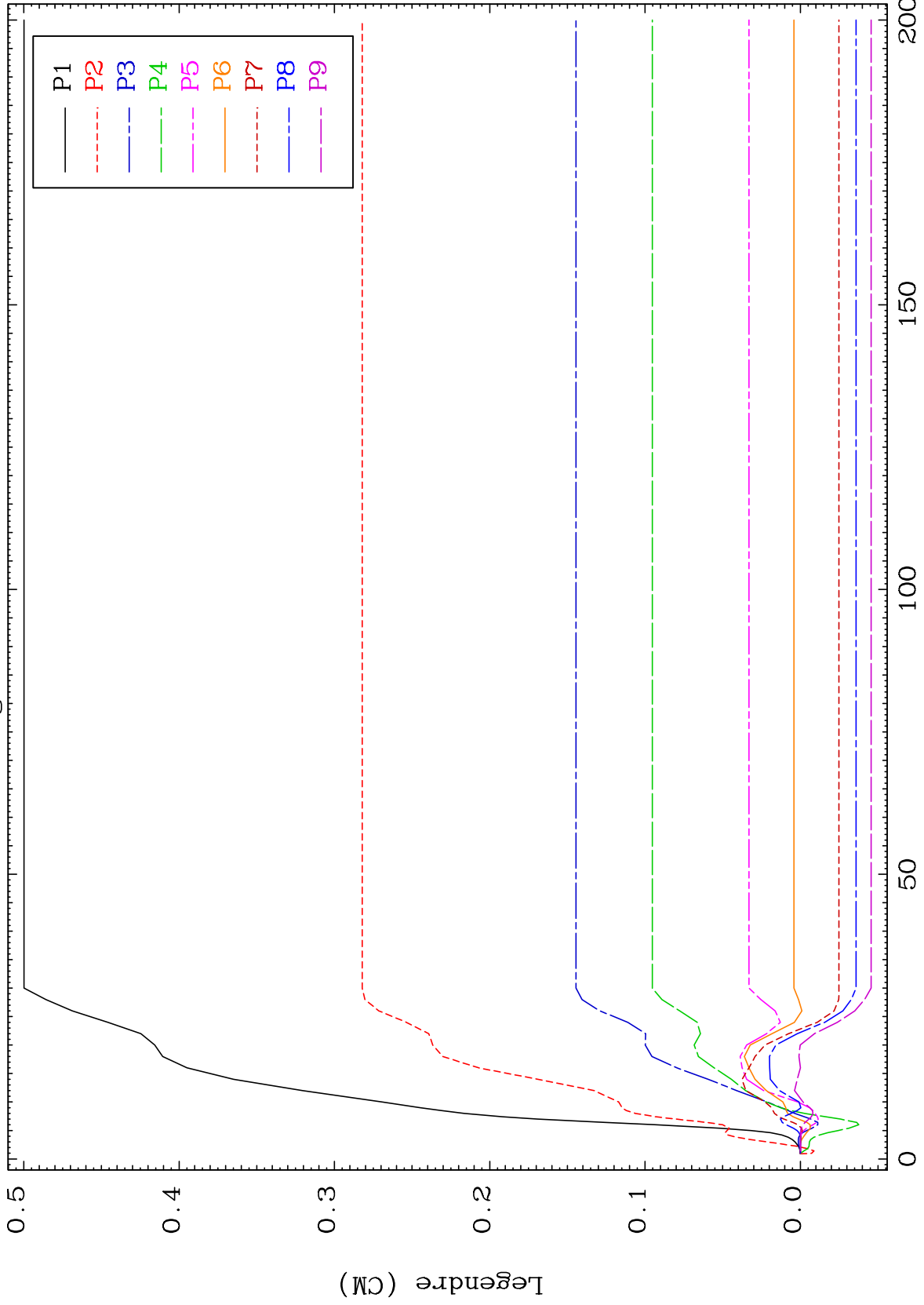
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



28

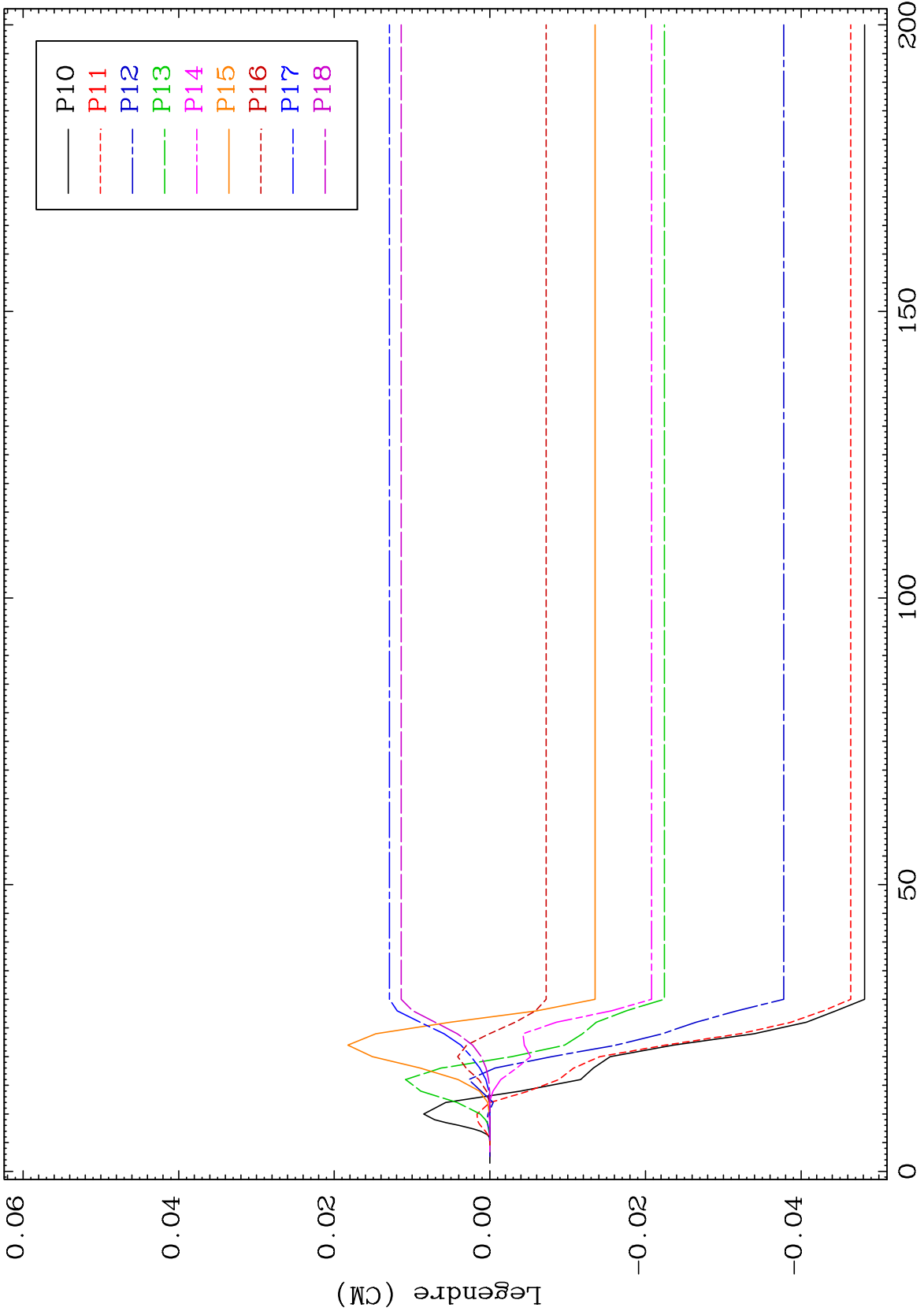
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



29

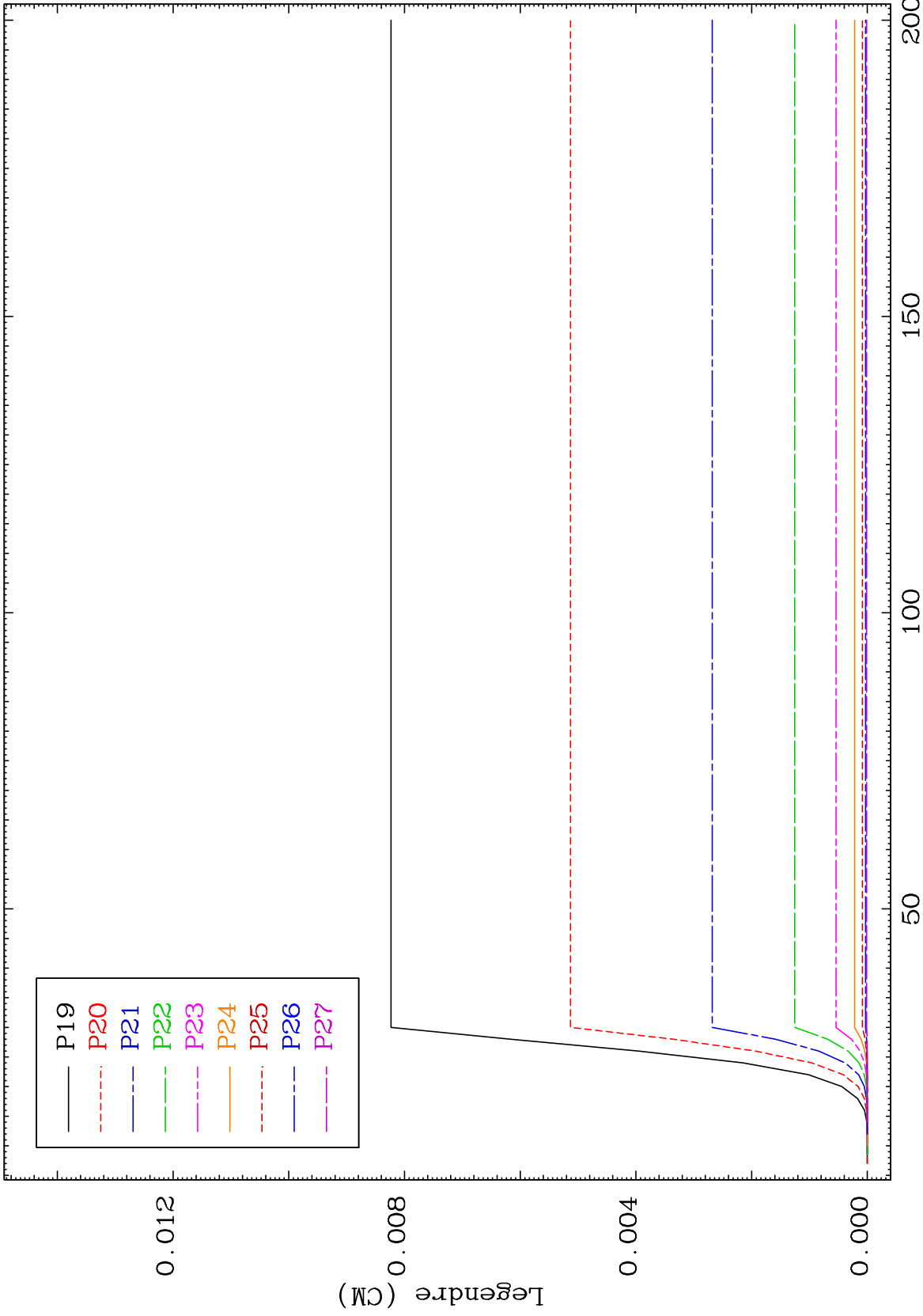
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



30

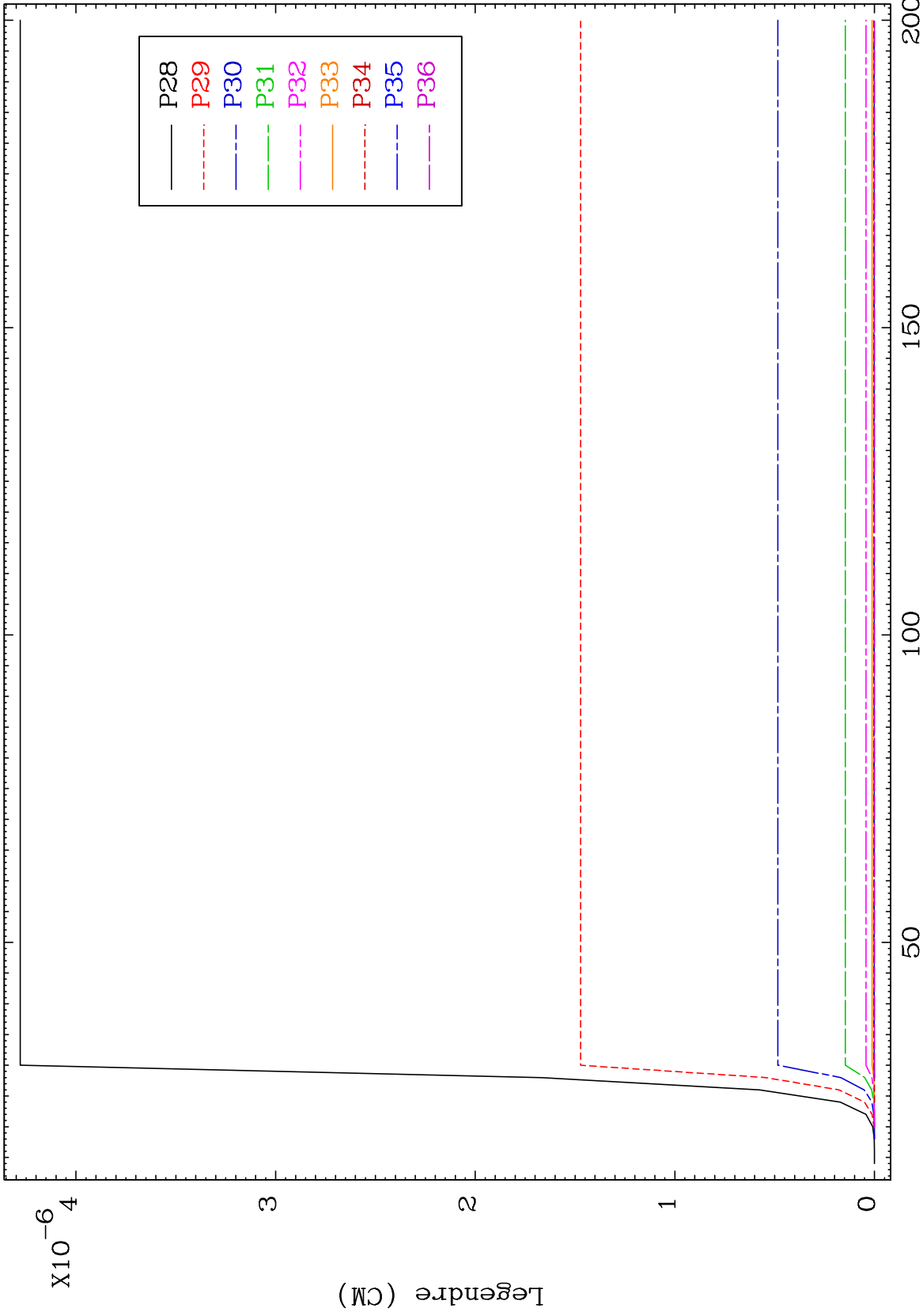
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

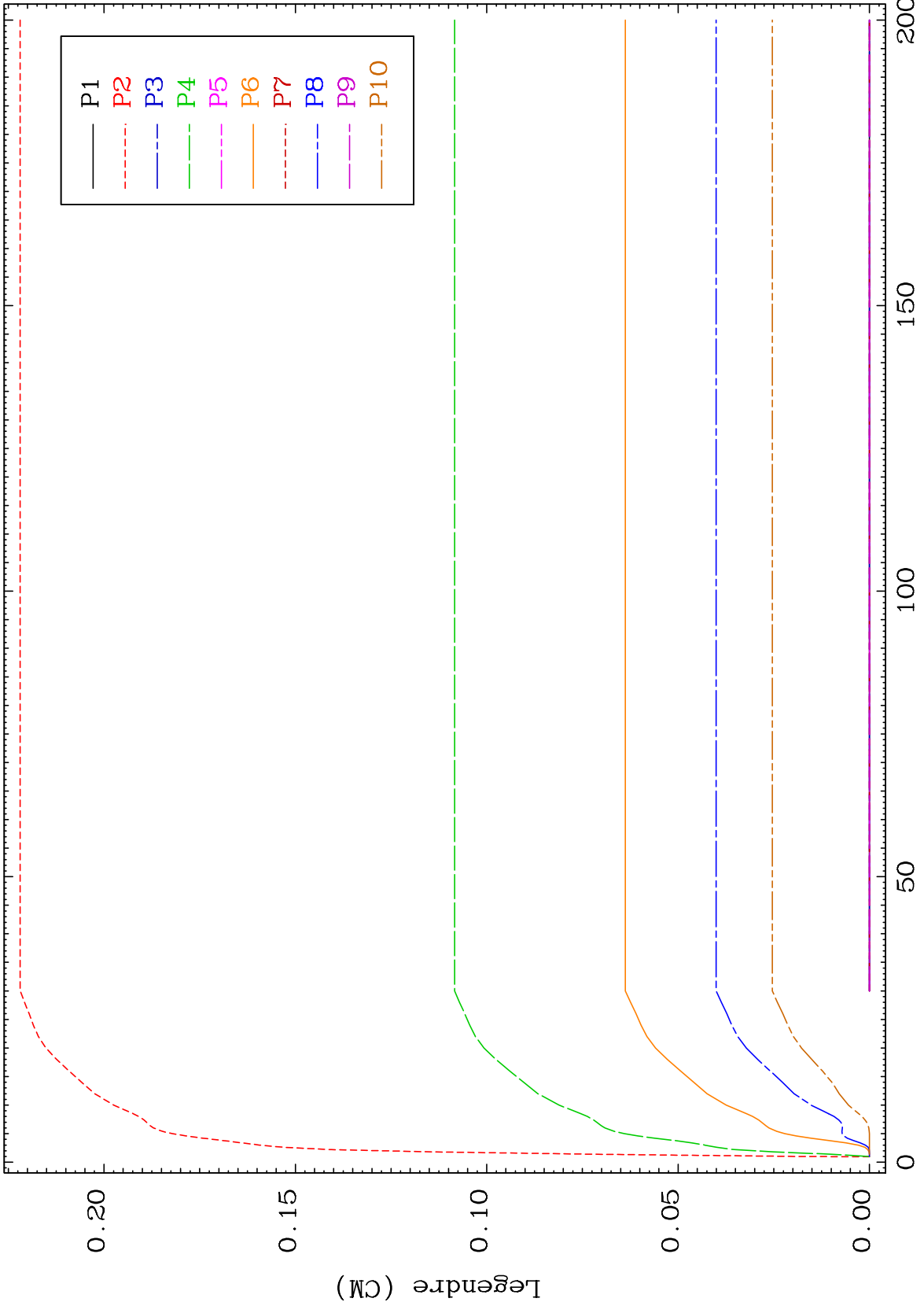
56-Ba-128



31

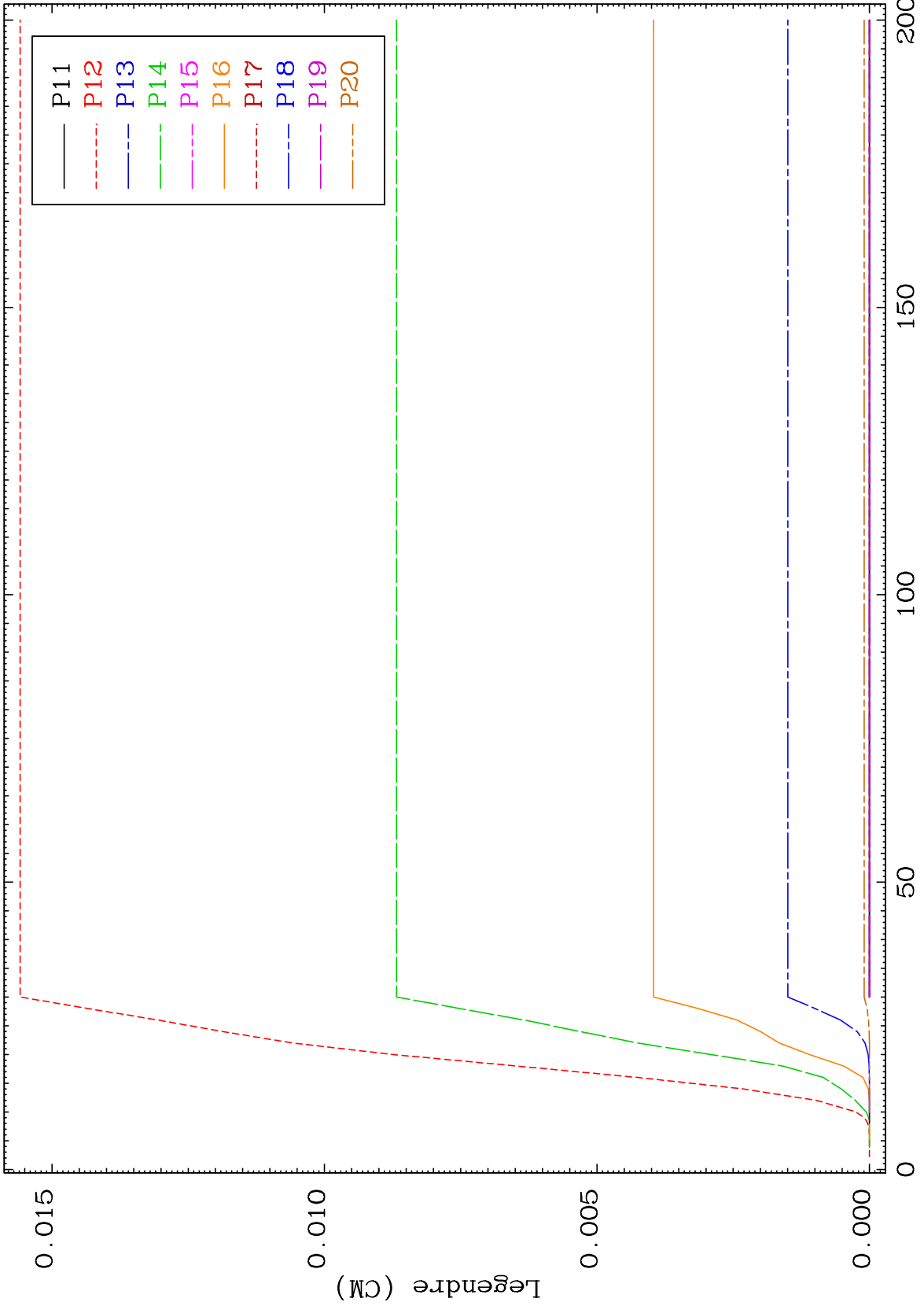
56-Ba-128

MAT 5619 MT= 54 (n,n') Level Legendre Coefficients 56-Ba-128



32 56-Ba-128

MAT 5619 MT= 54 (n,n') Level Legendre Coefficients 56-Ba-128

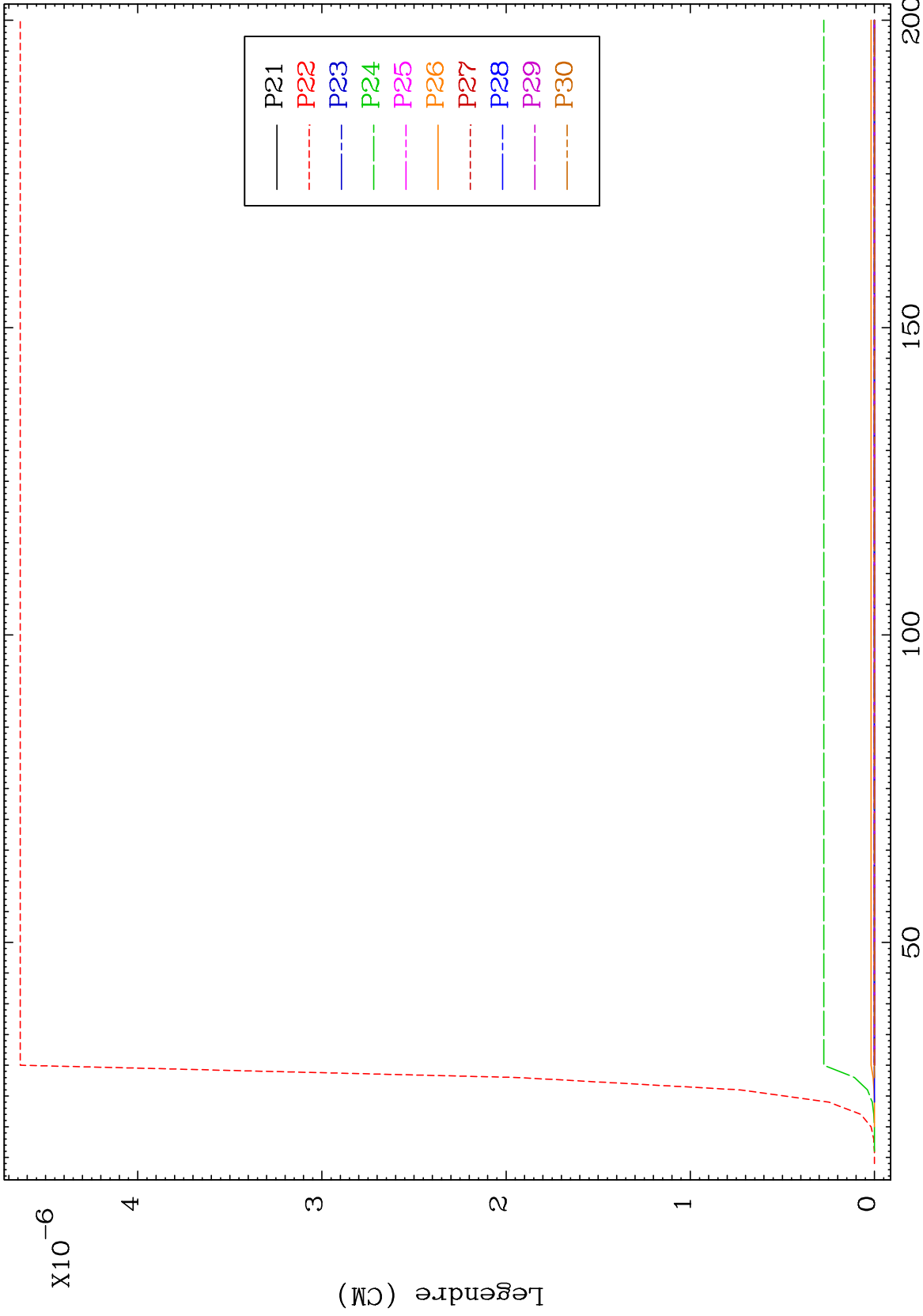


33 56-Ba-128

MAT 5619

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

56-Ba-128

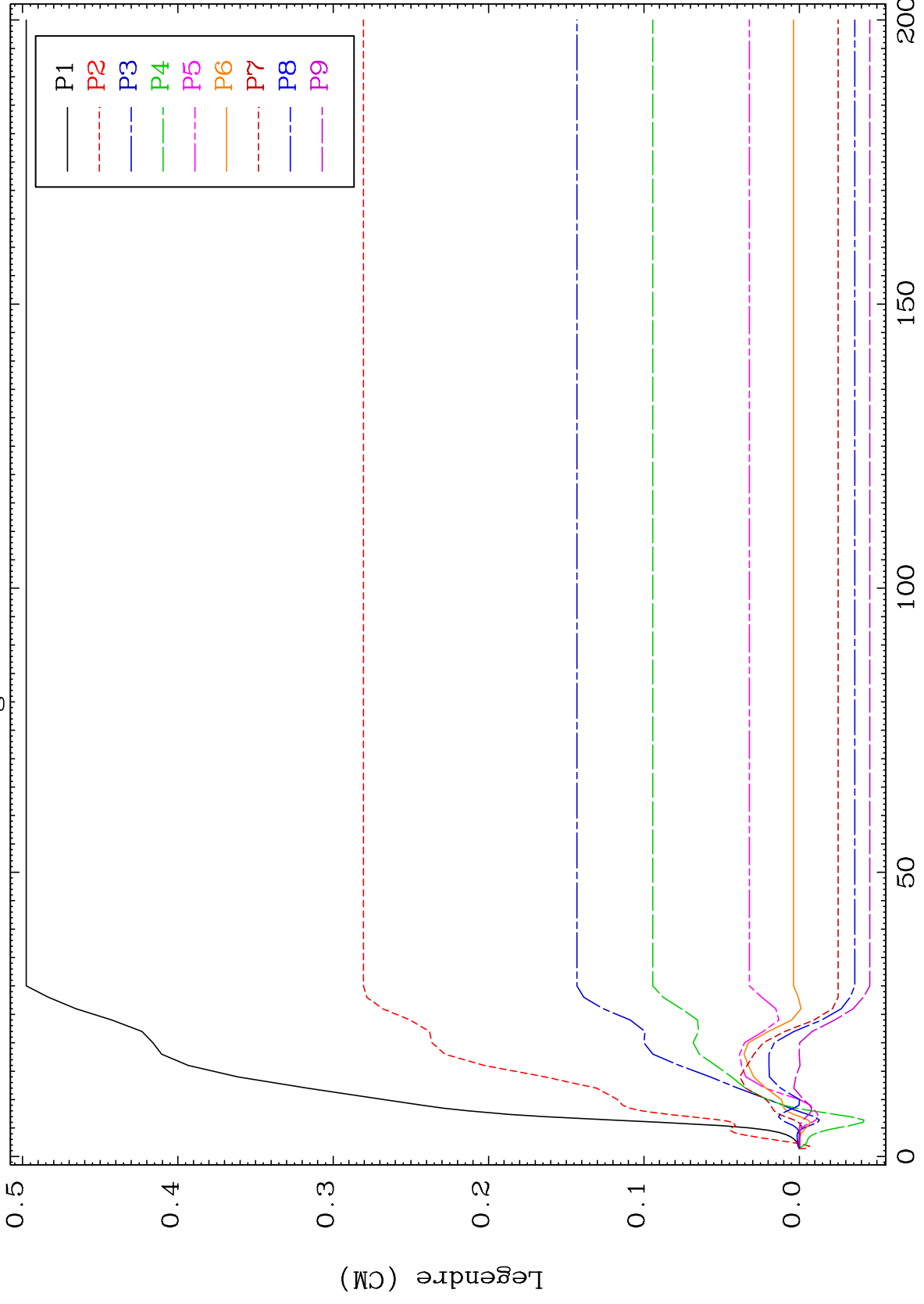


34

Incident Energy (MeV)

56-Ba-128

MAT 5619 MT= 55 (n,n') Level Legendre Coefficients 56-Ba-128

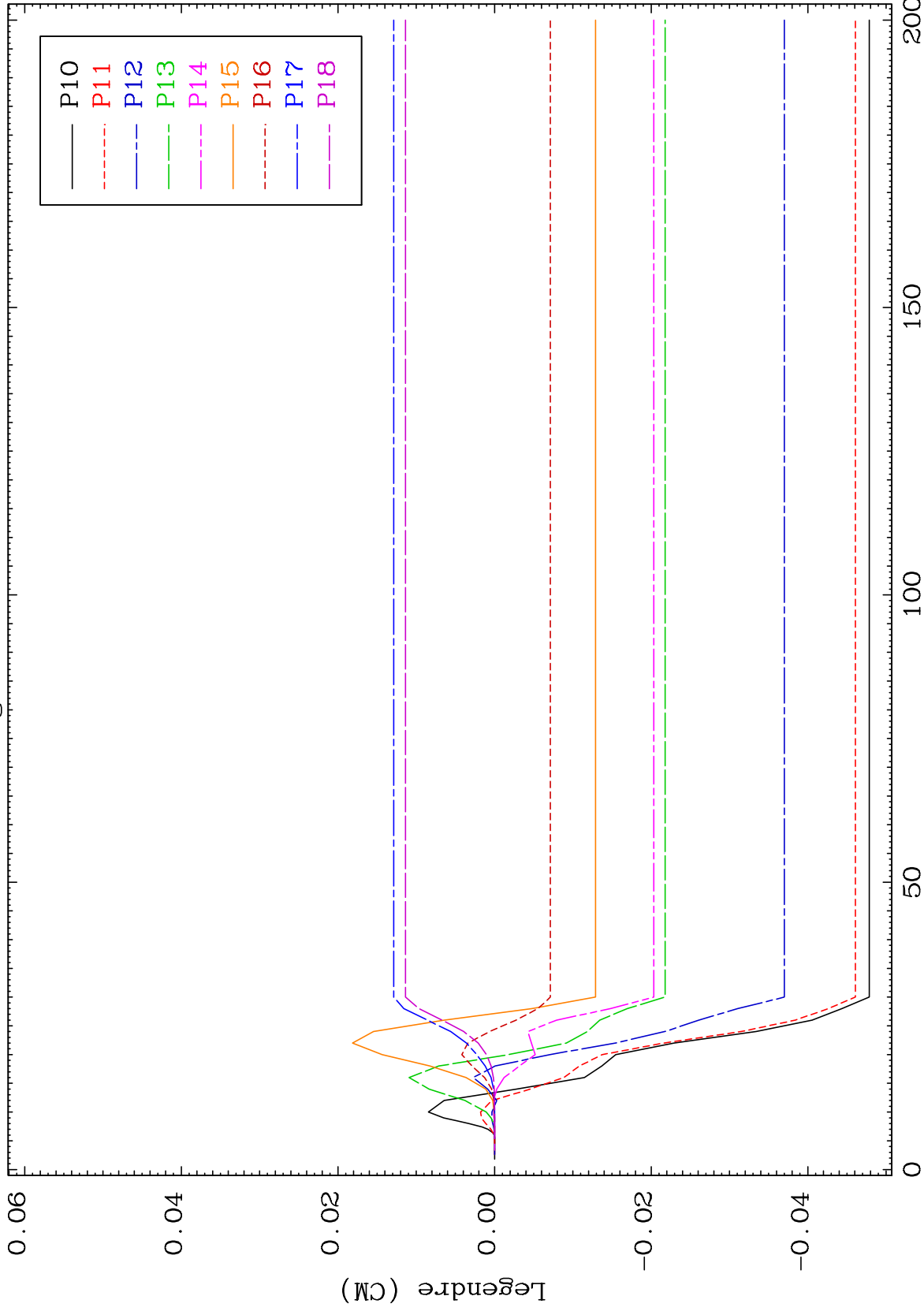


35 Incident Energy (MeV) 56-Ba-128

MAT 5619

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

56-Ba-128

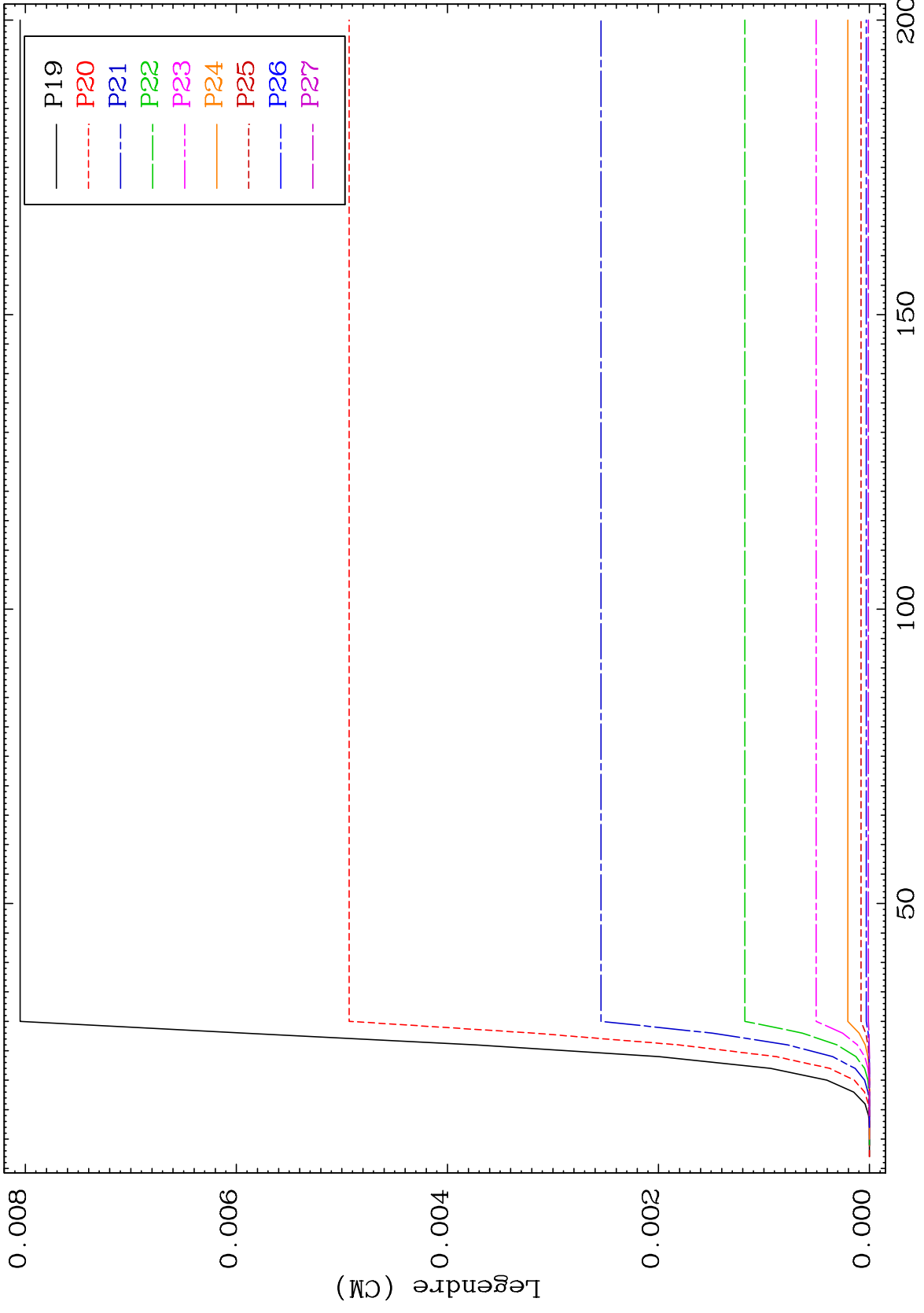


36

Incident Energy (MeV)

56-Ba-128

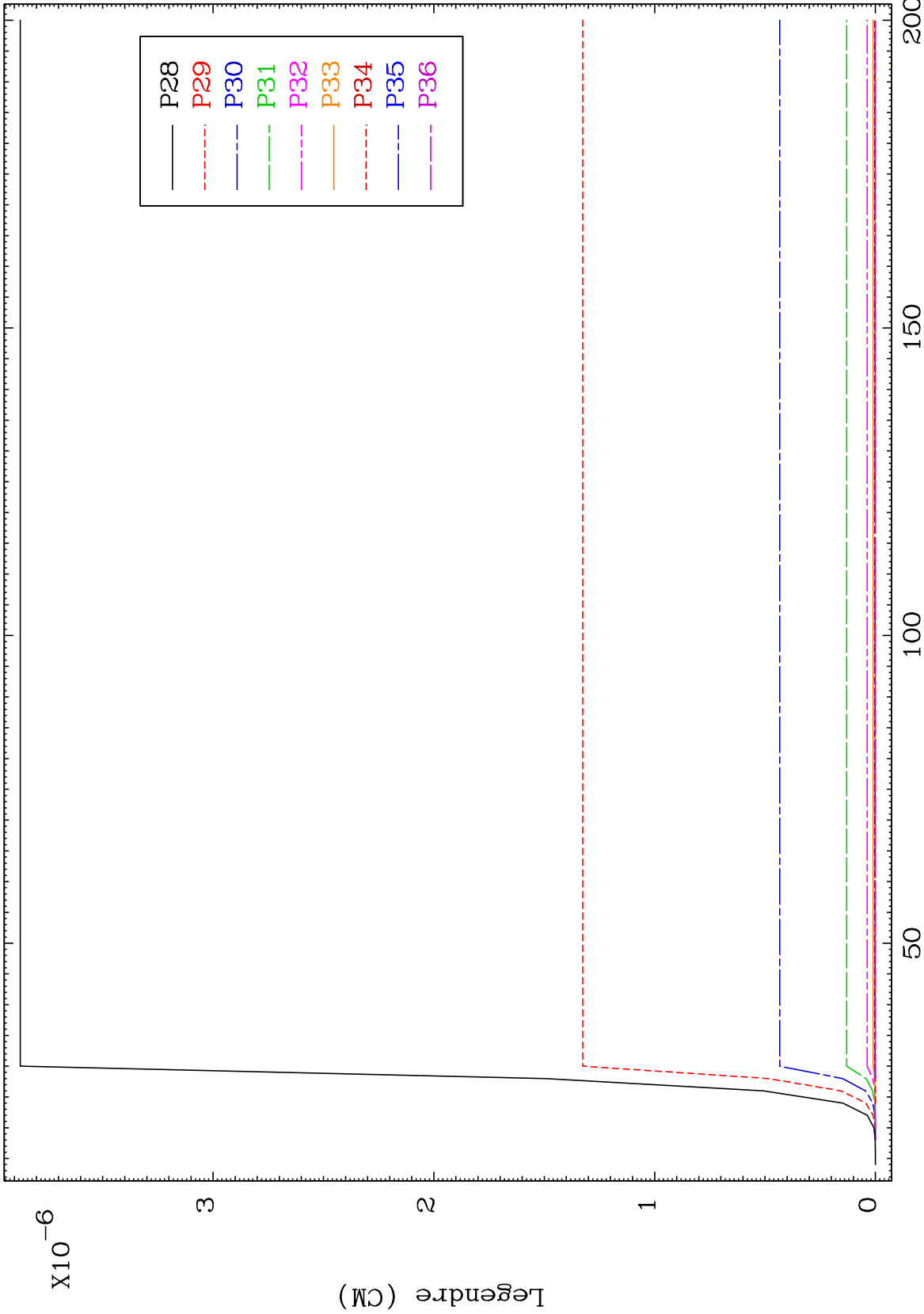
MAT 5619 MT= 55 (n,n') Level Legendre Coefficients 56-Ba-128



MAT 5619

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

56-Ba-128

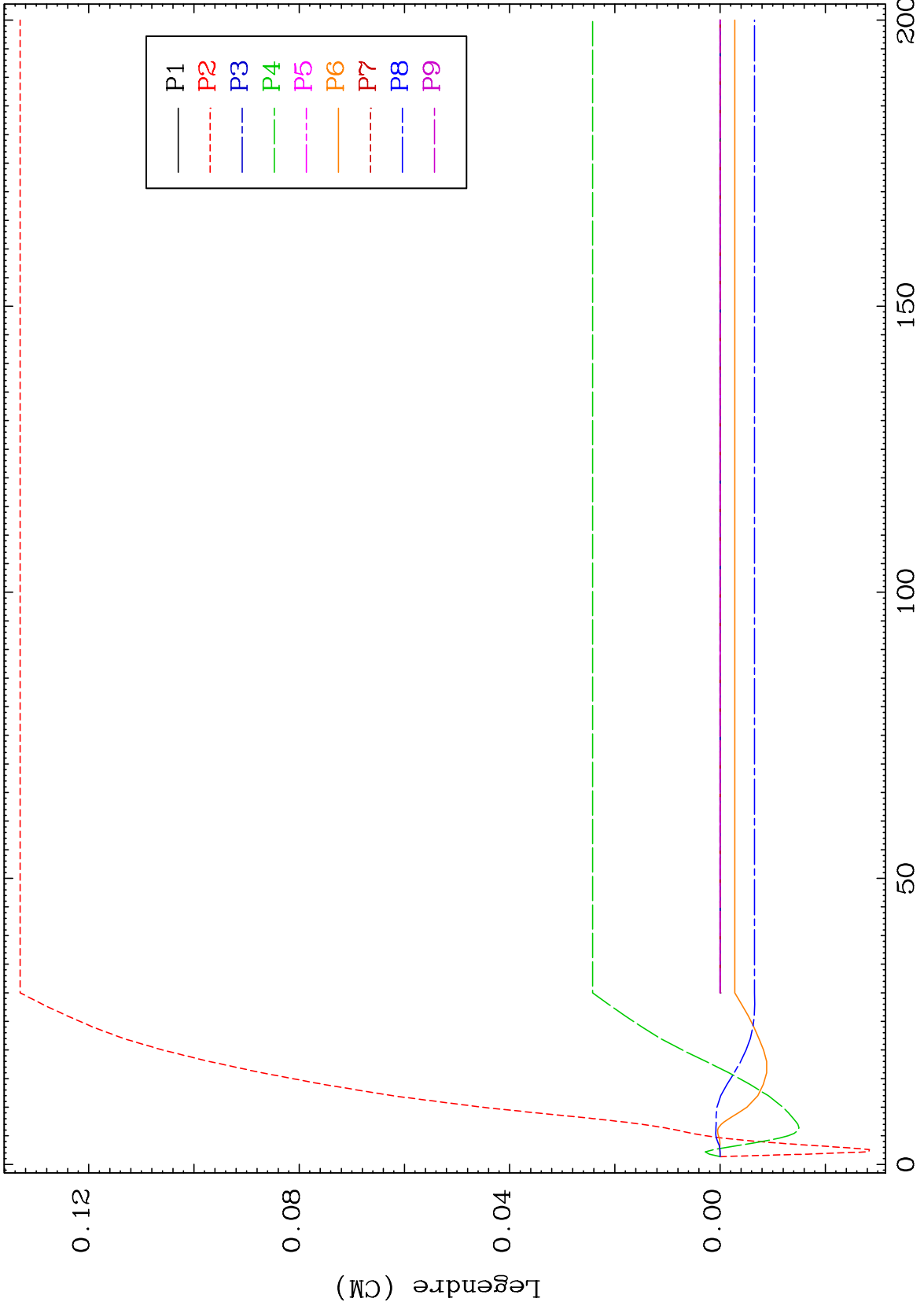


38

Incident Energy (MeV)

56-Ba-128

MAT 5619 MT= 56 (n,n') Level Legendre Coefficients 56-Ba-128

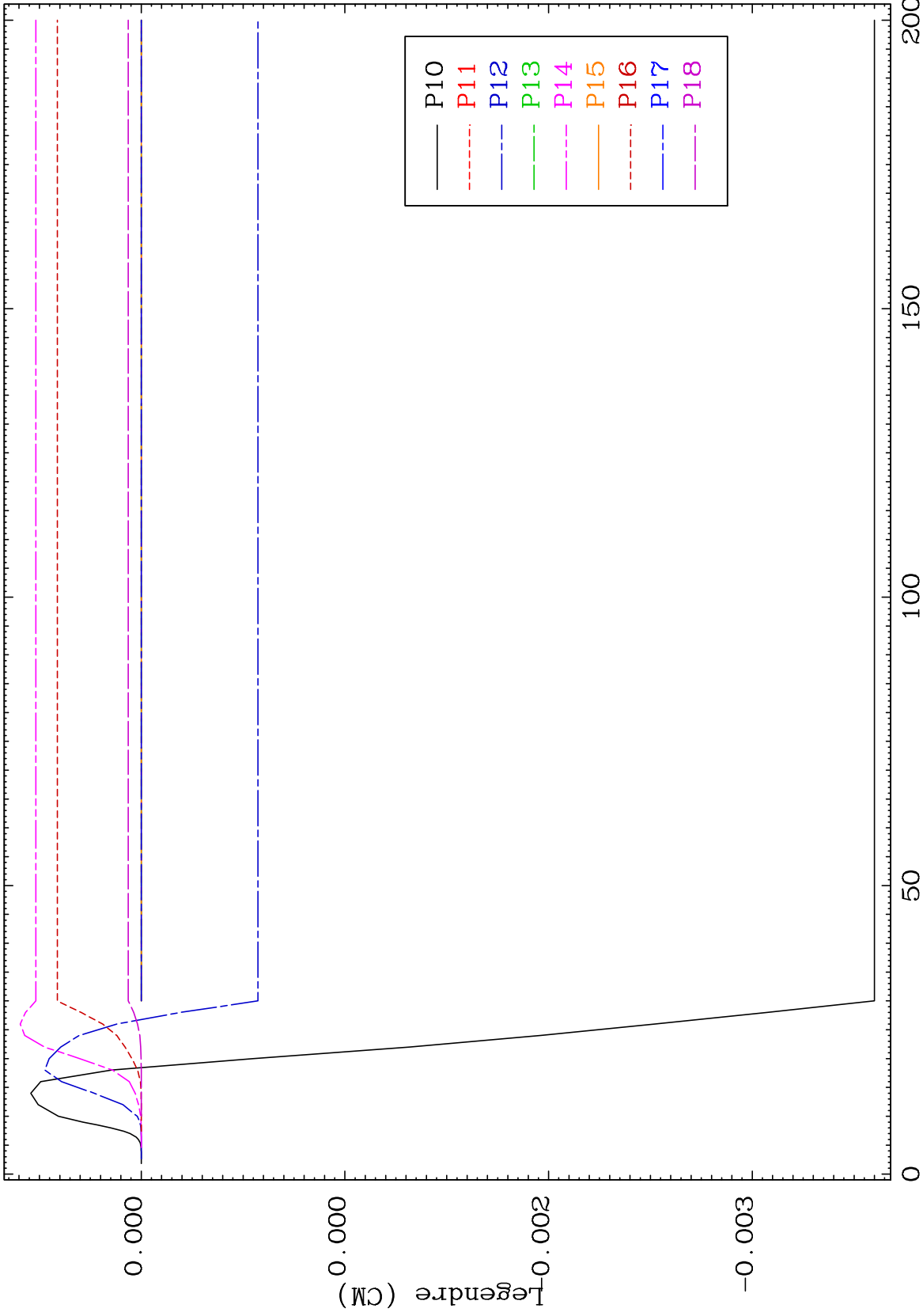


39 56-Ba-128

MAT 5619

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

56-Ba-128

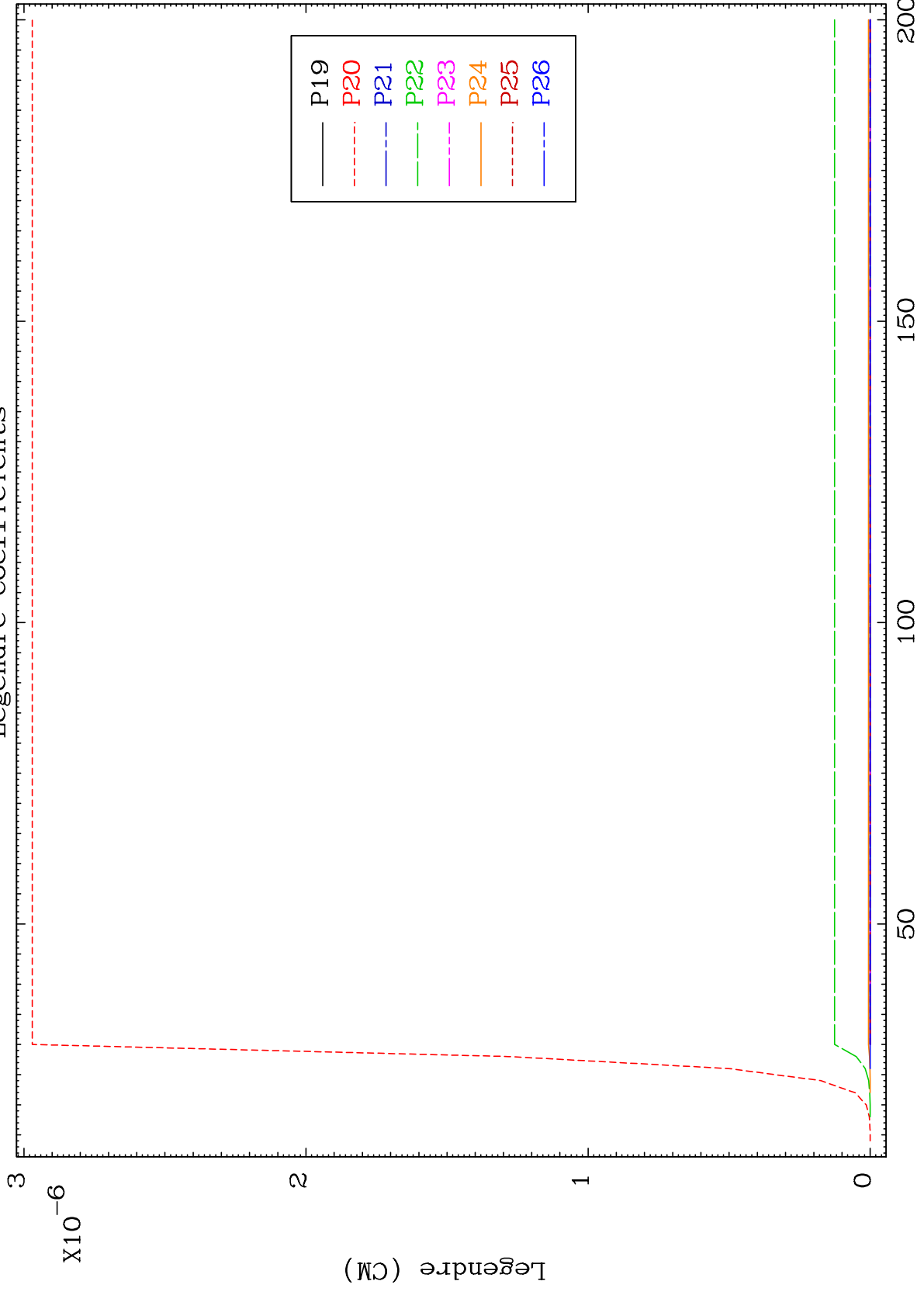


40

Incident Energy (MeV)

56-Ba-128

MAT 5619 MT= 56 (n,n') Level Legendre Coefficients 56-Ba-128

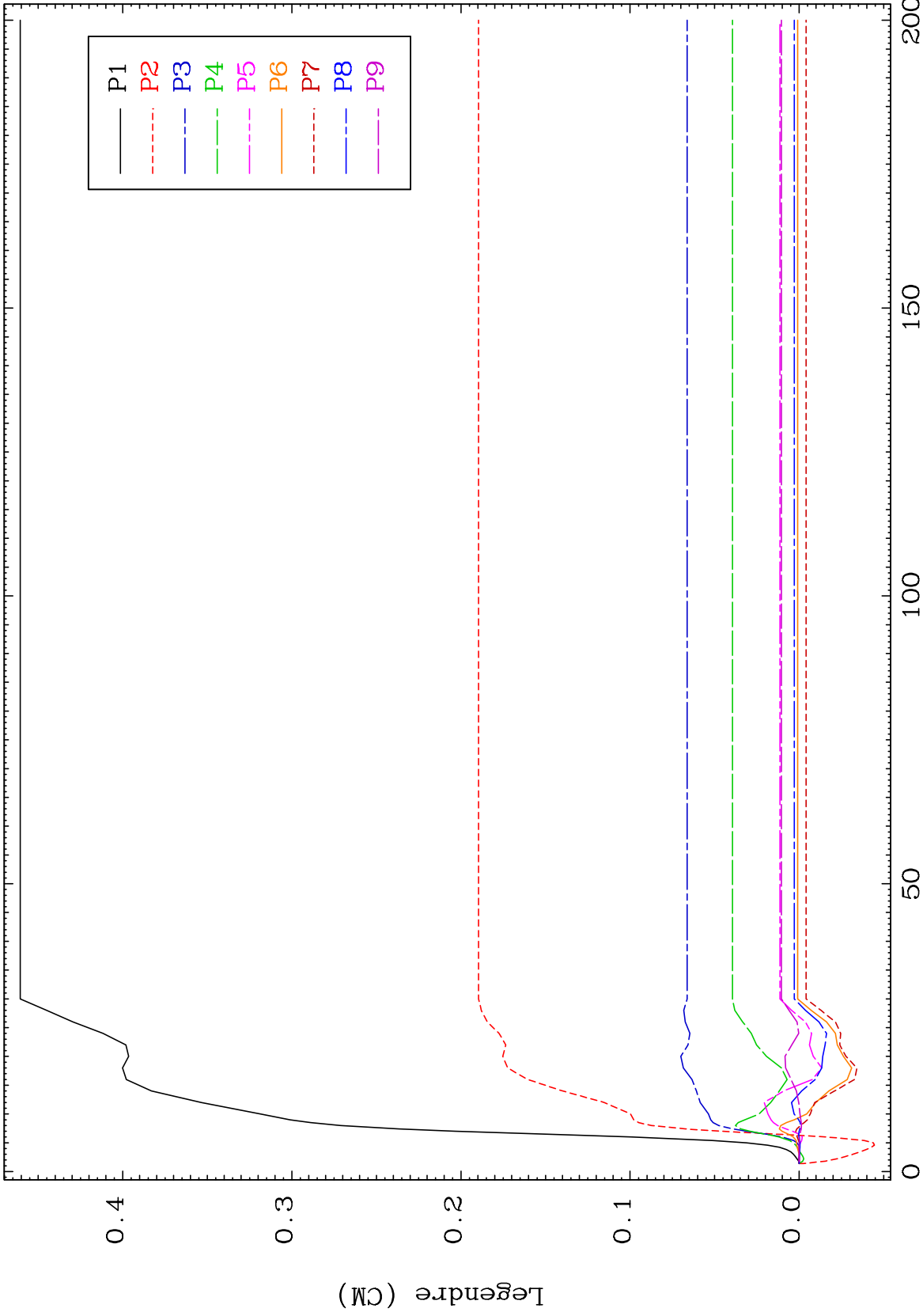


41 56-Ba-128

MAT 5619

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

56-Ba-128



42

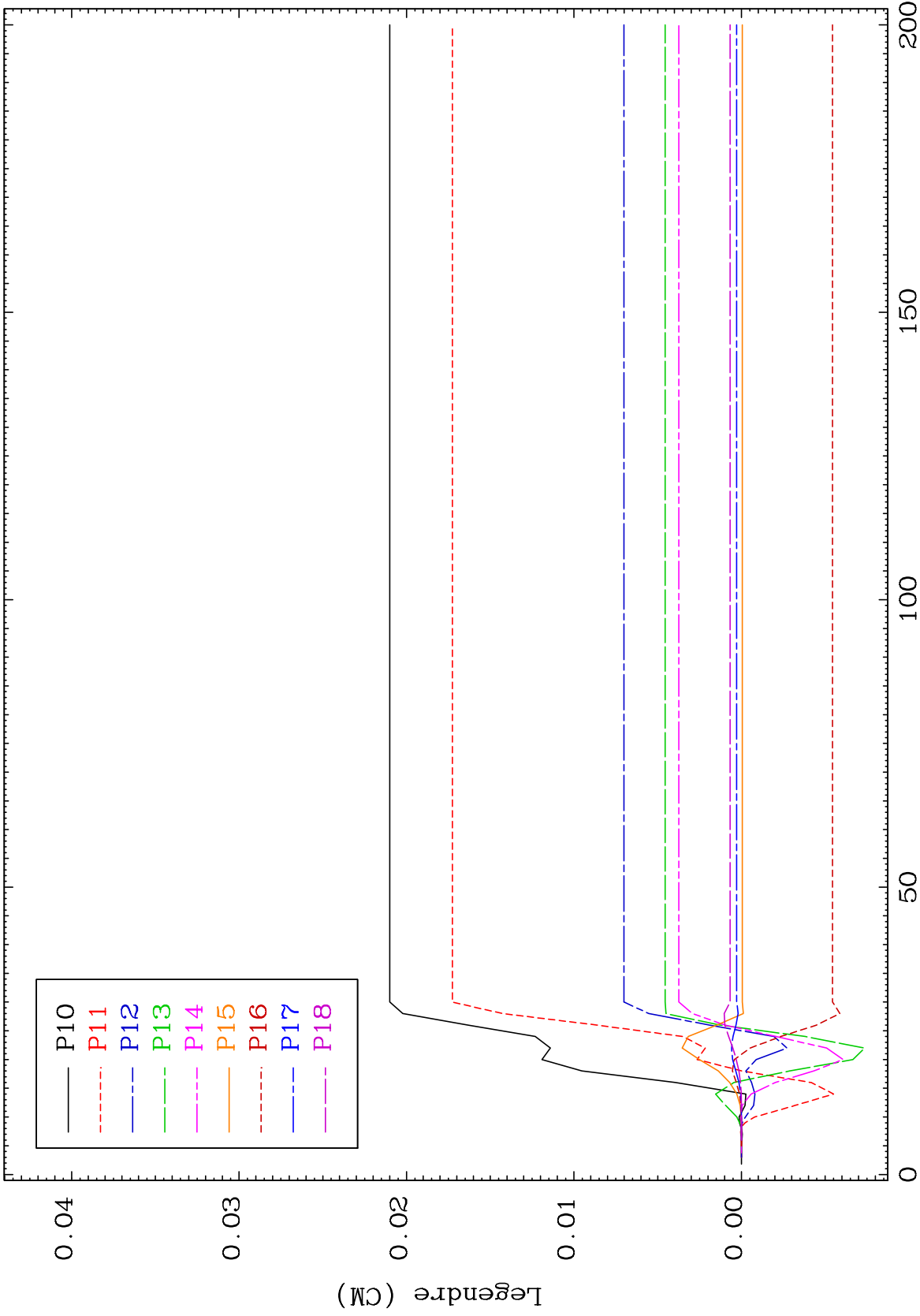
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



43

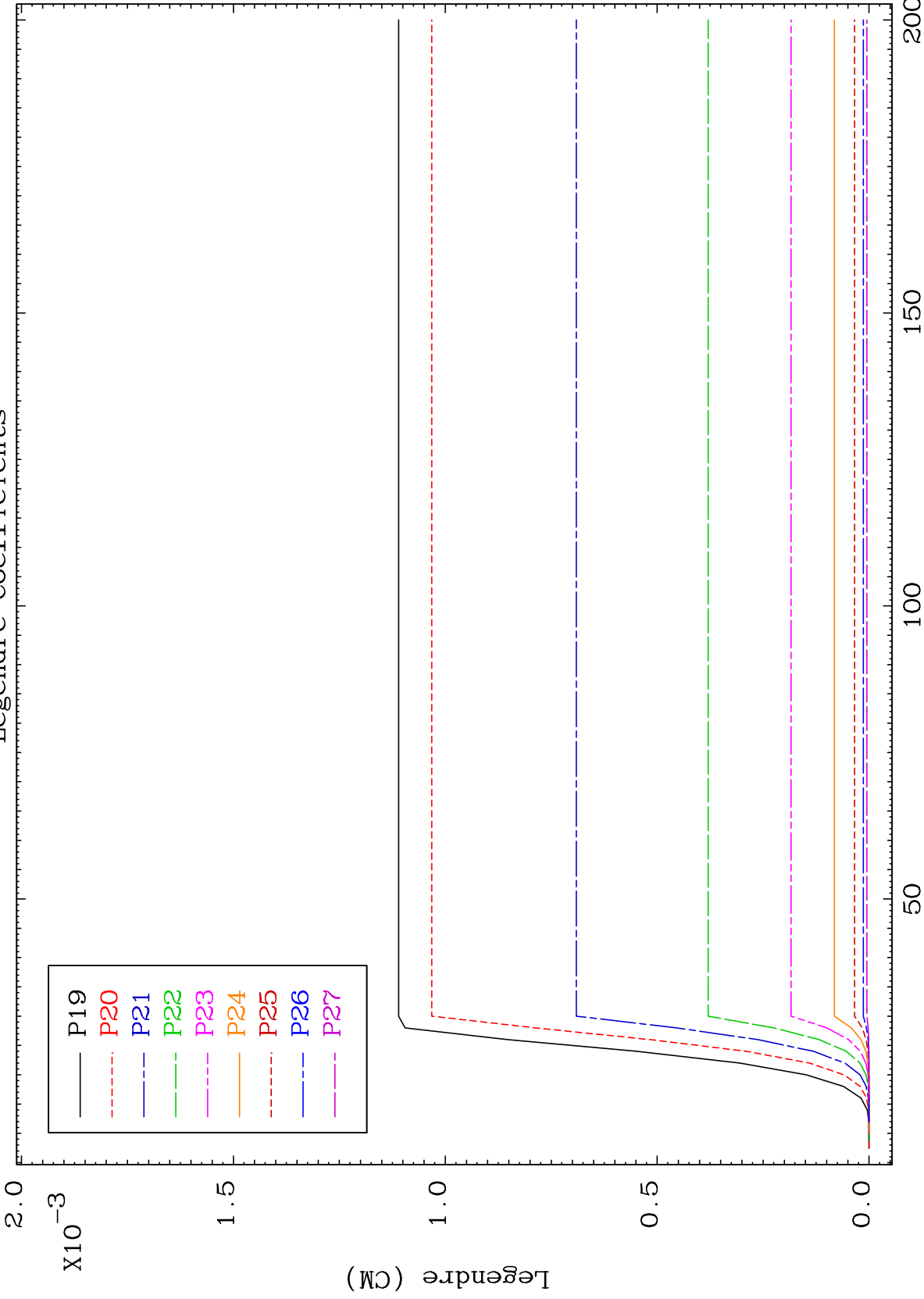
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

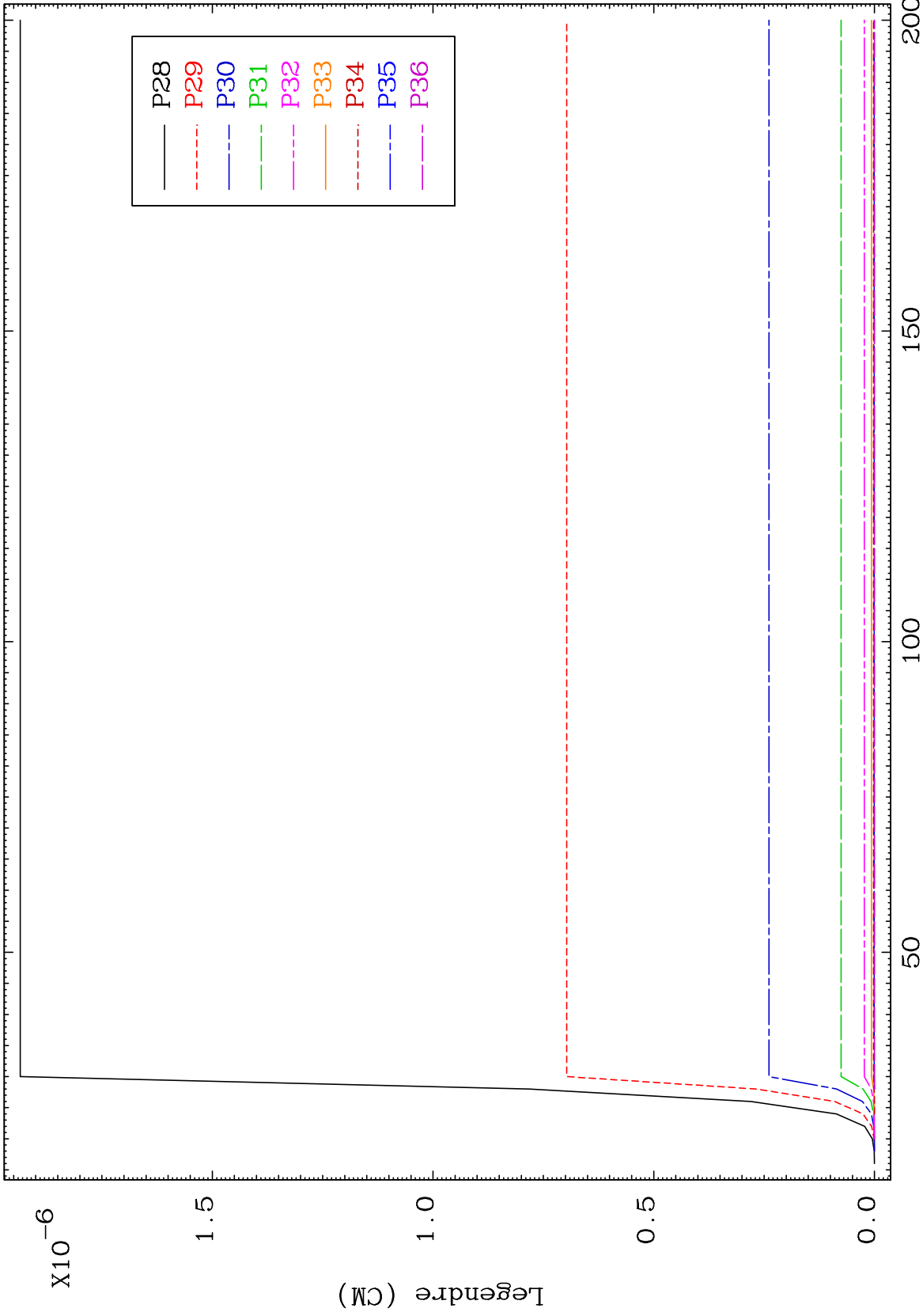
56-Ba-128



MAT 5619

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

56-Ba-128



45

Incident Energy (MeV)

50

100

150

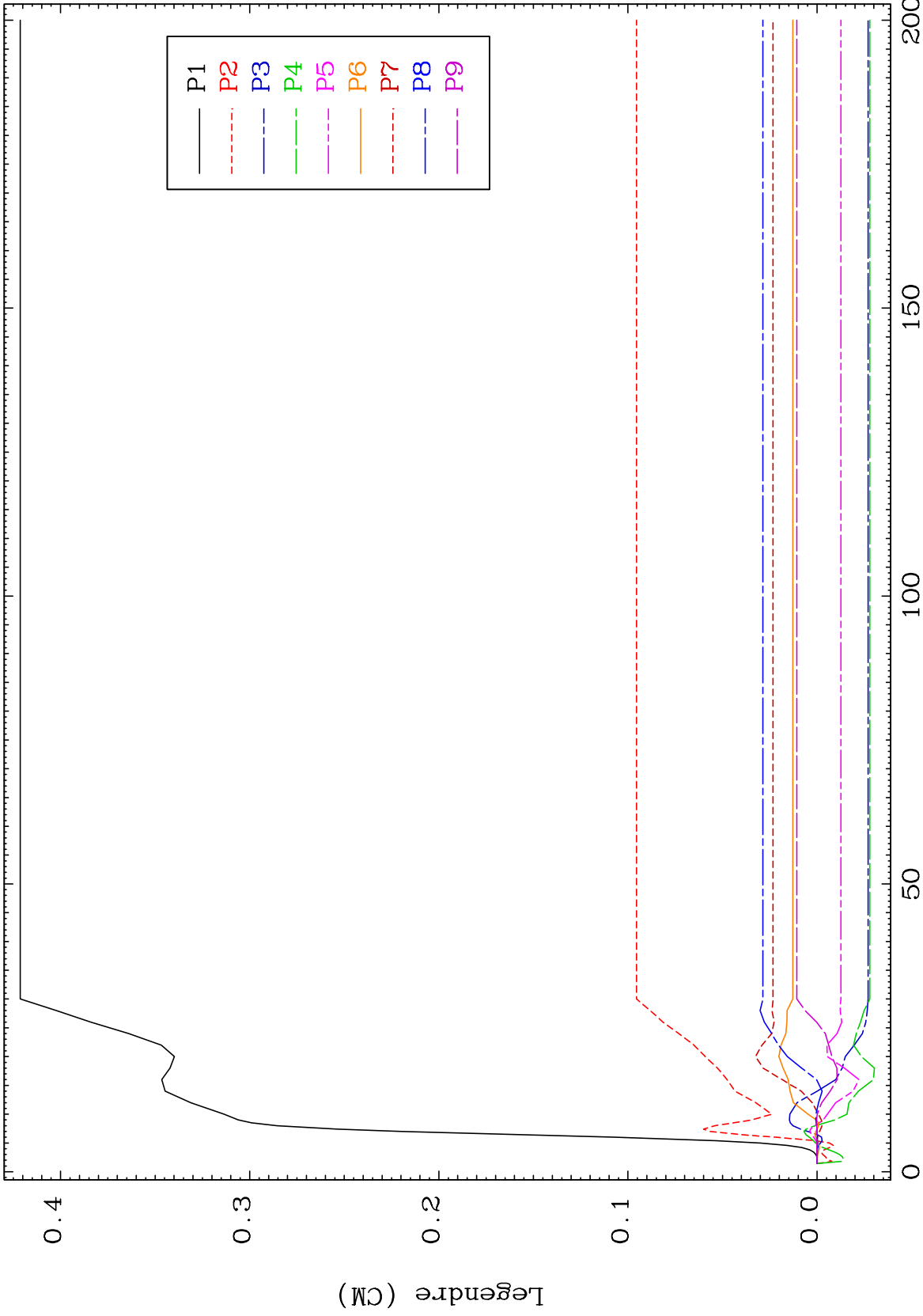
200

56-Ba-128

MAT 5619

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

56-Ba-128



46

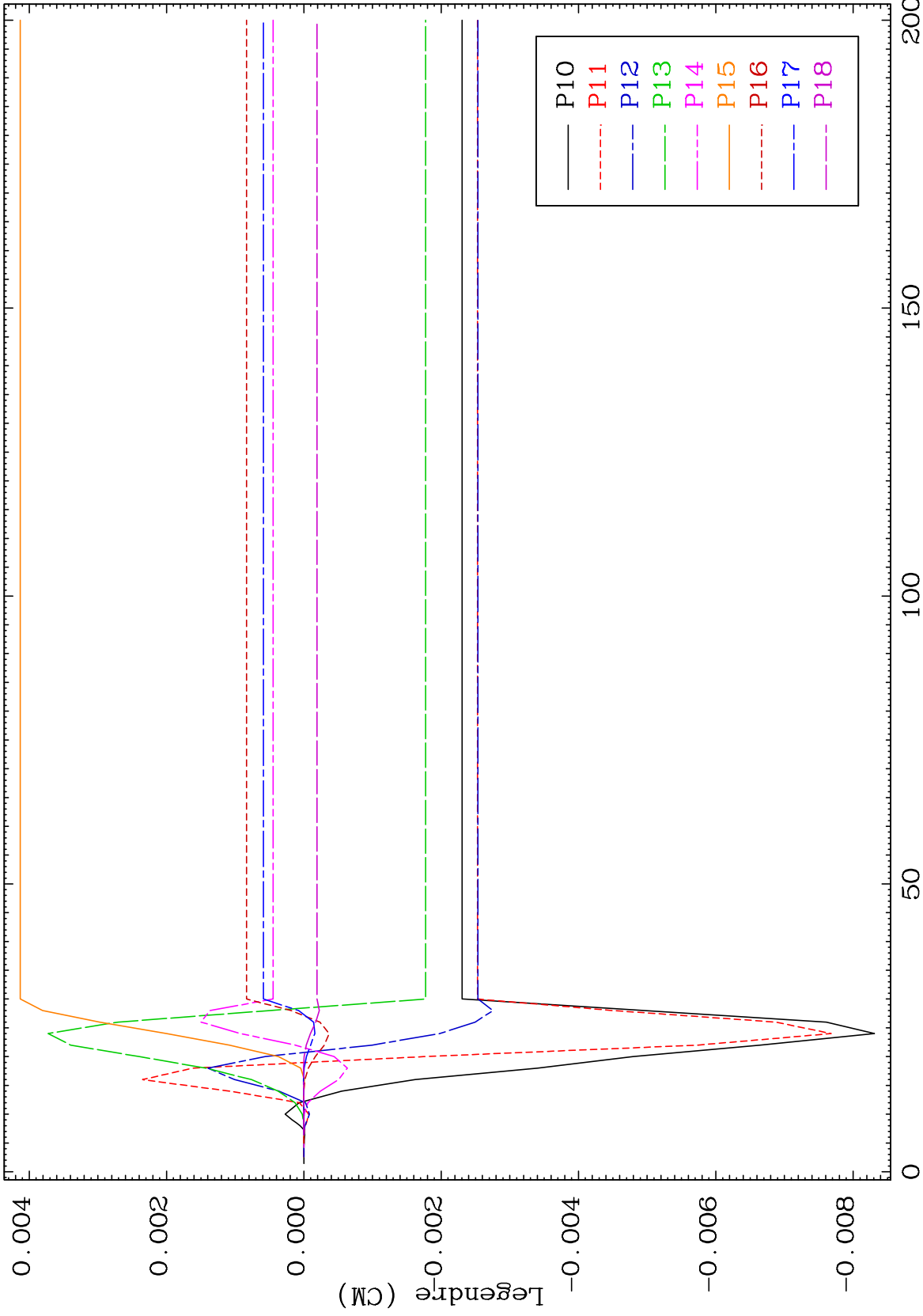
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



47

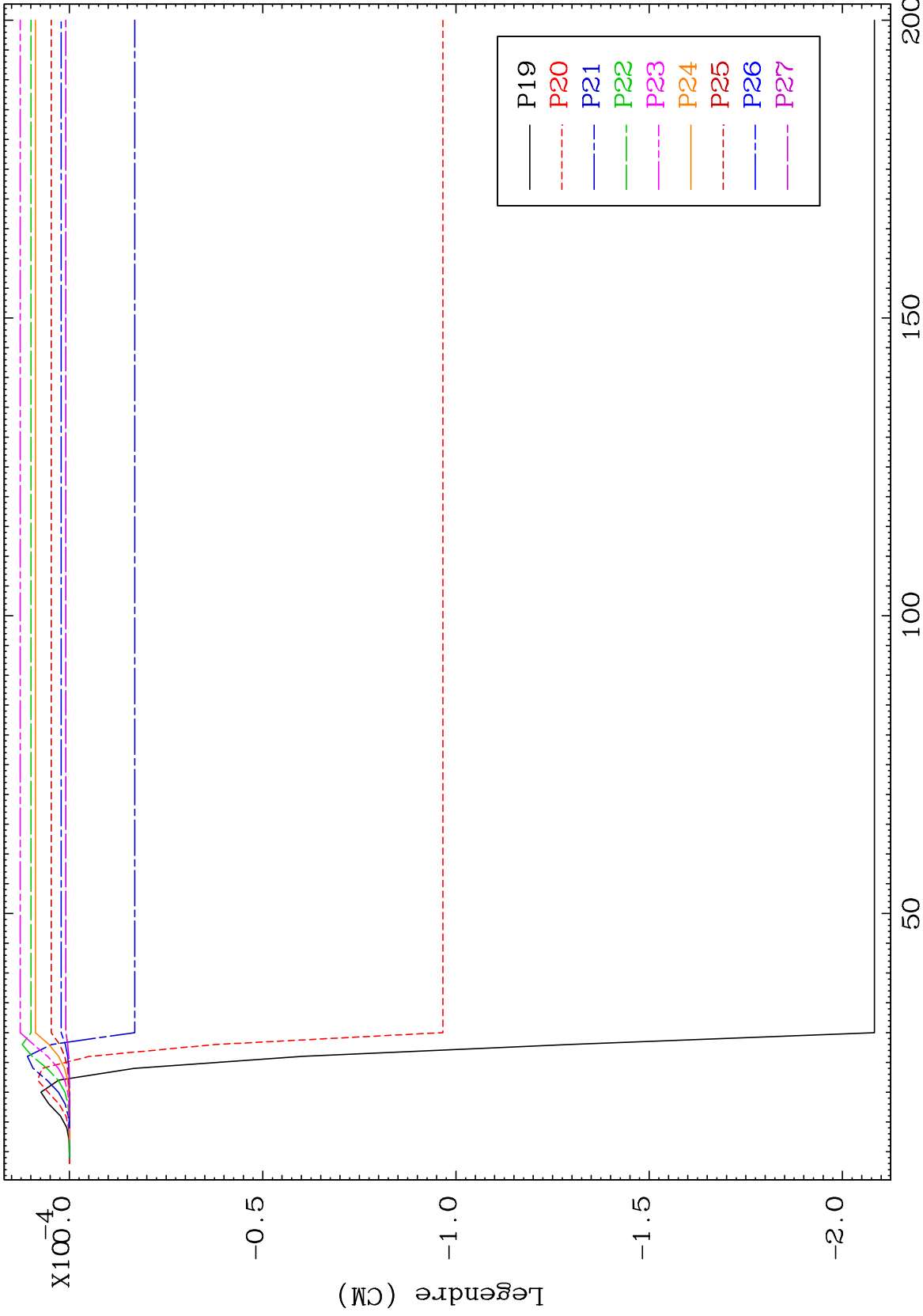
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



56-Ba-128

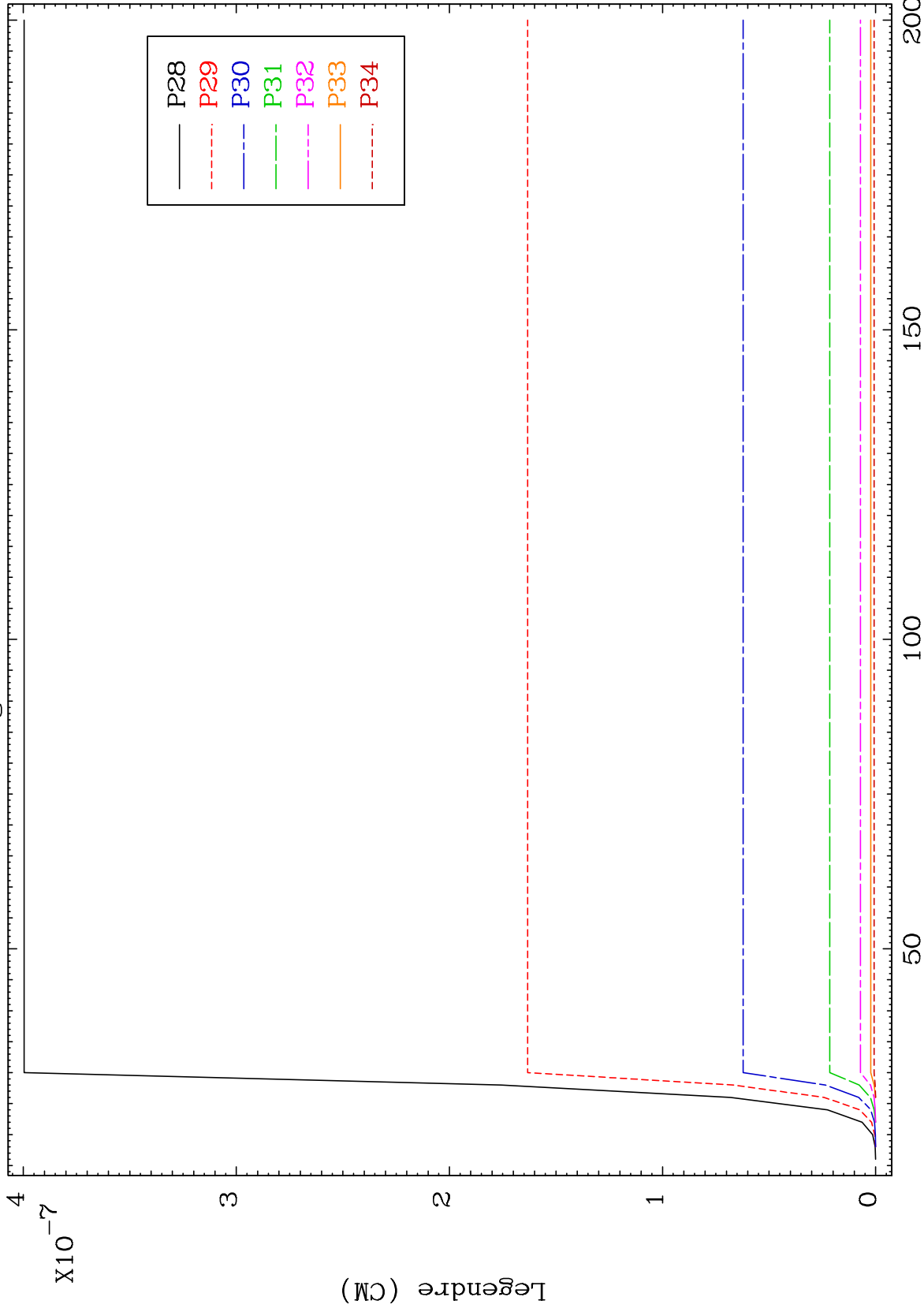
Incident Energy (MeV)

48

MAT 5619

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

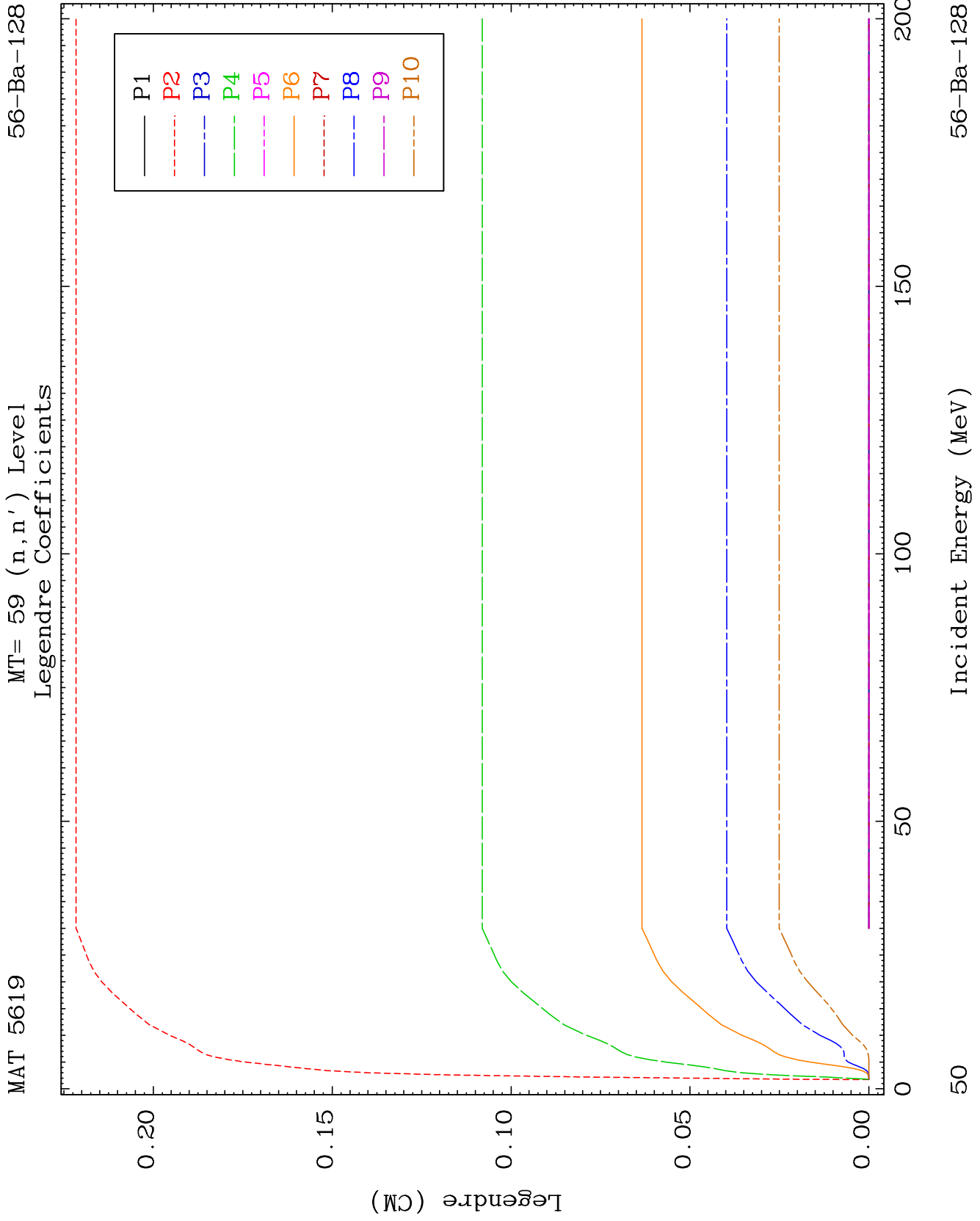
56-Ba-128



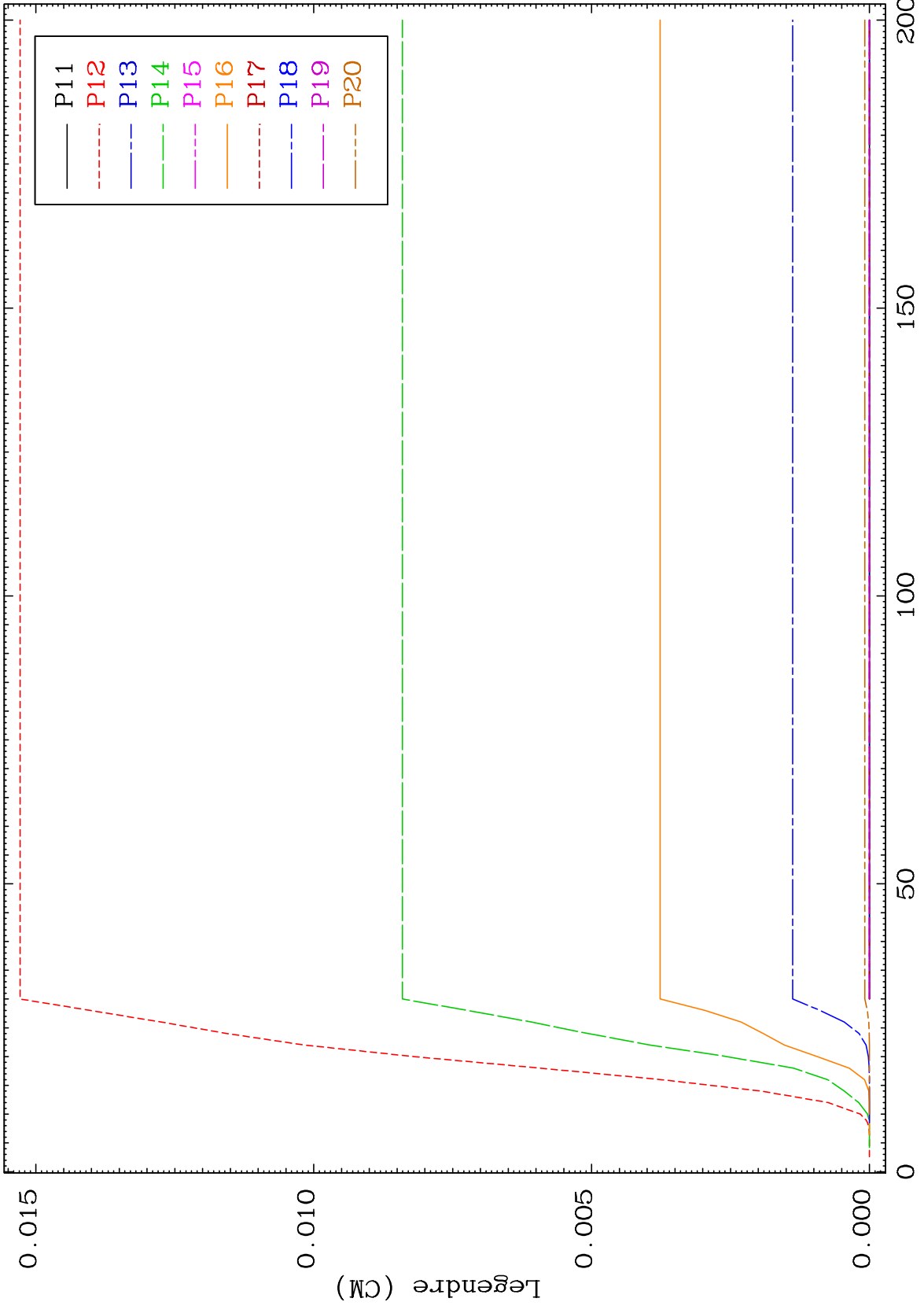
49

Incident Energy (MeV)

56-Ba-128

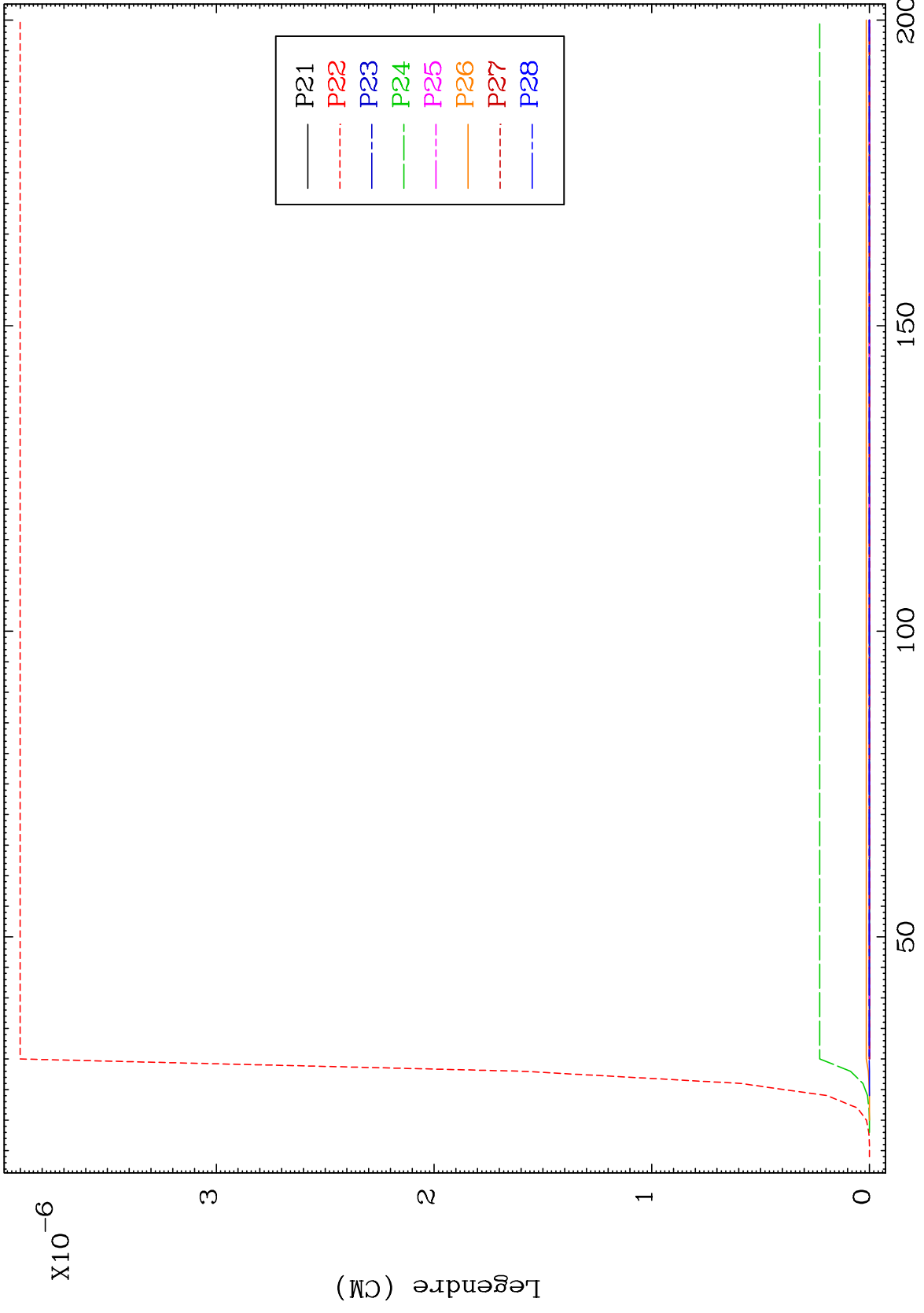


MAT 5619 MT= 59 (n,n') Level Legendre Coefficients 56-Ba-128



51 56-Ba-128

MAT 5619 MT= 59 (n,n') Level Legendre Coefficients 56-Ba-128

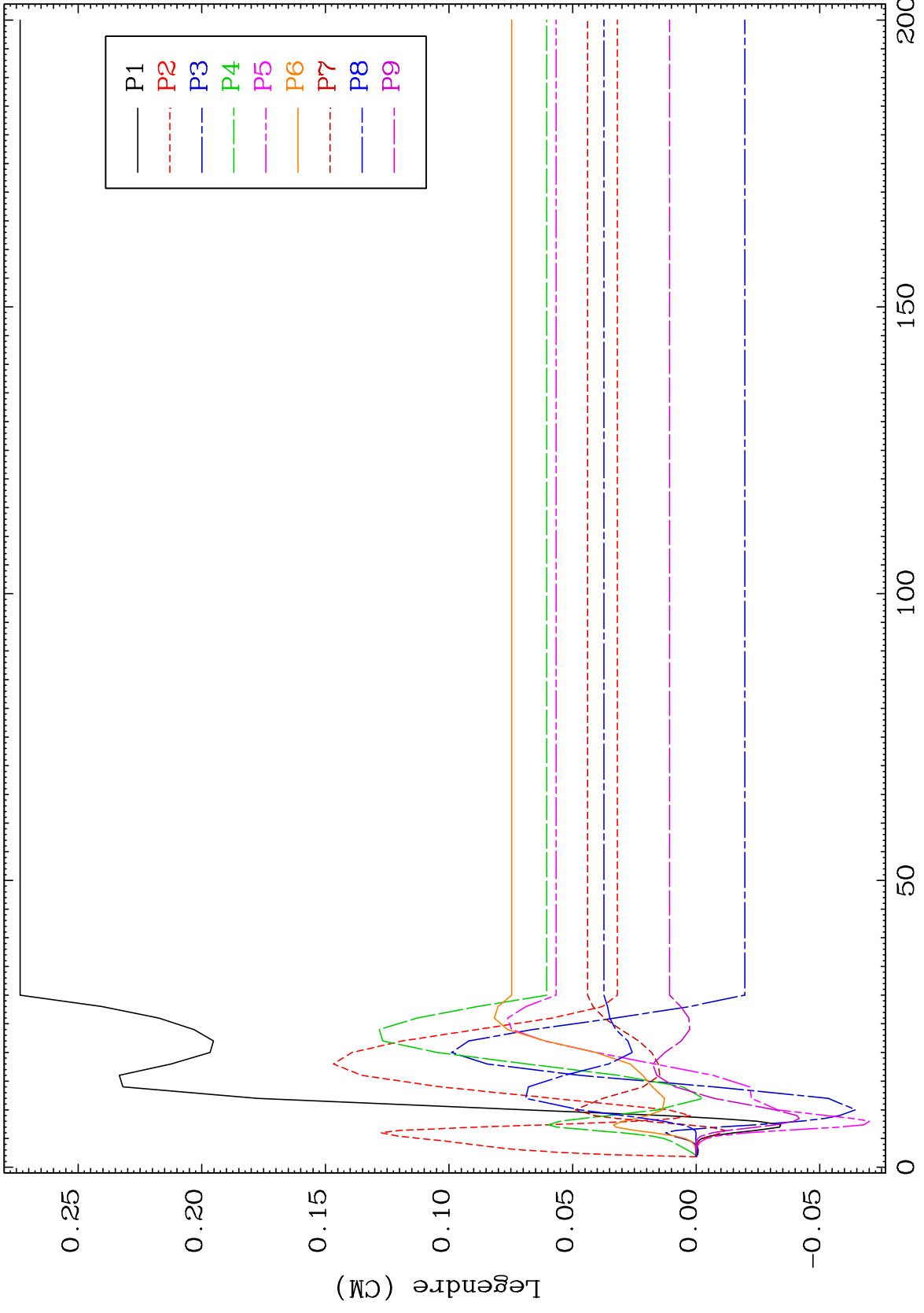


52 50 100 150 200 56-Ba-128

MAT 5619

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

56-Ba-128



53

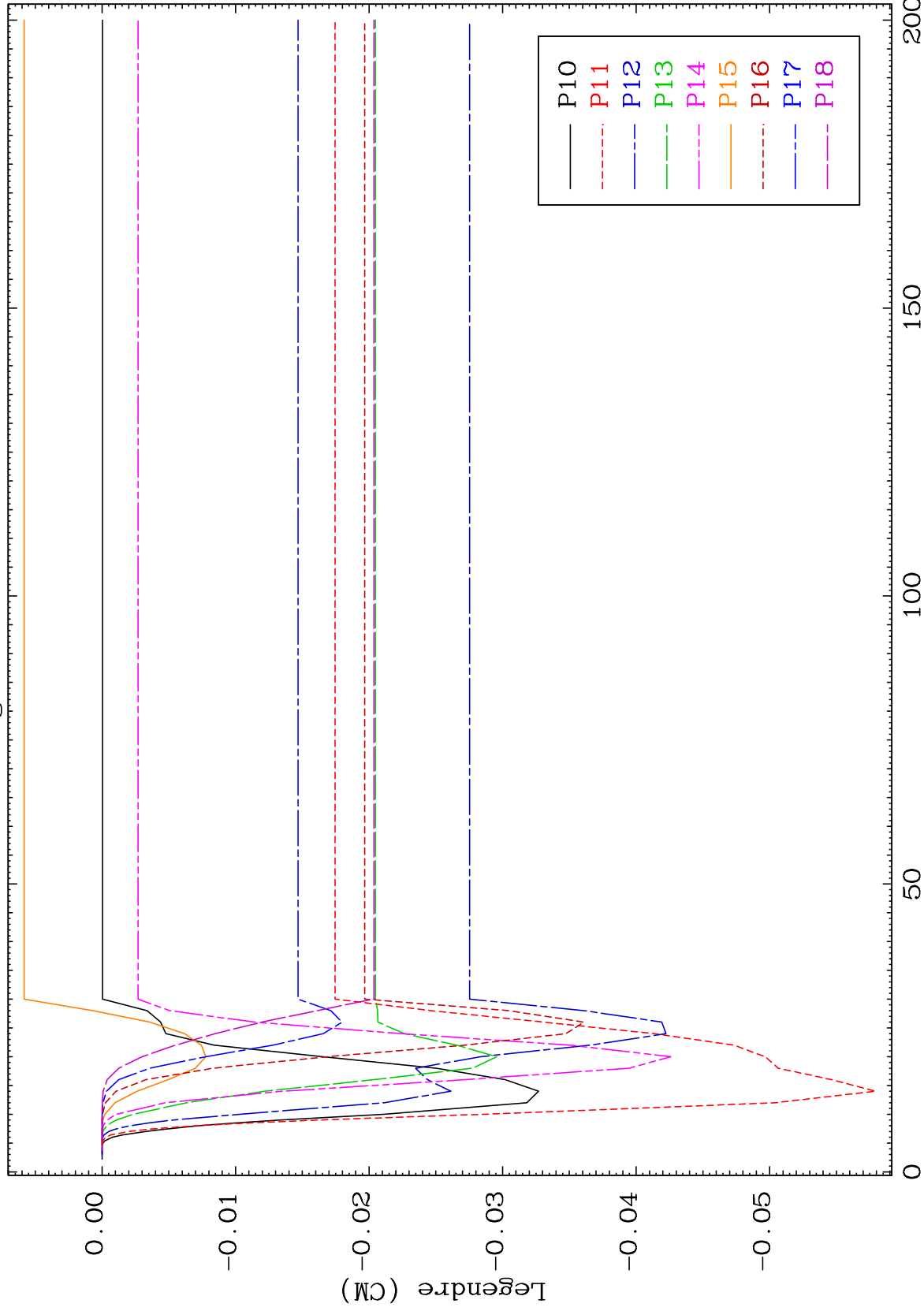
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128

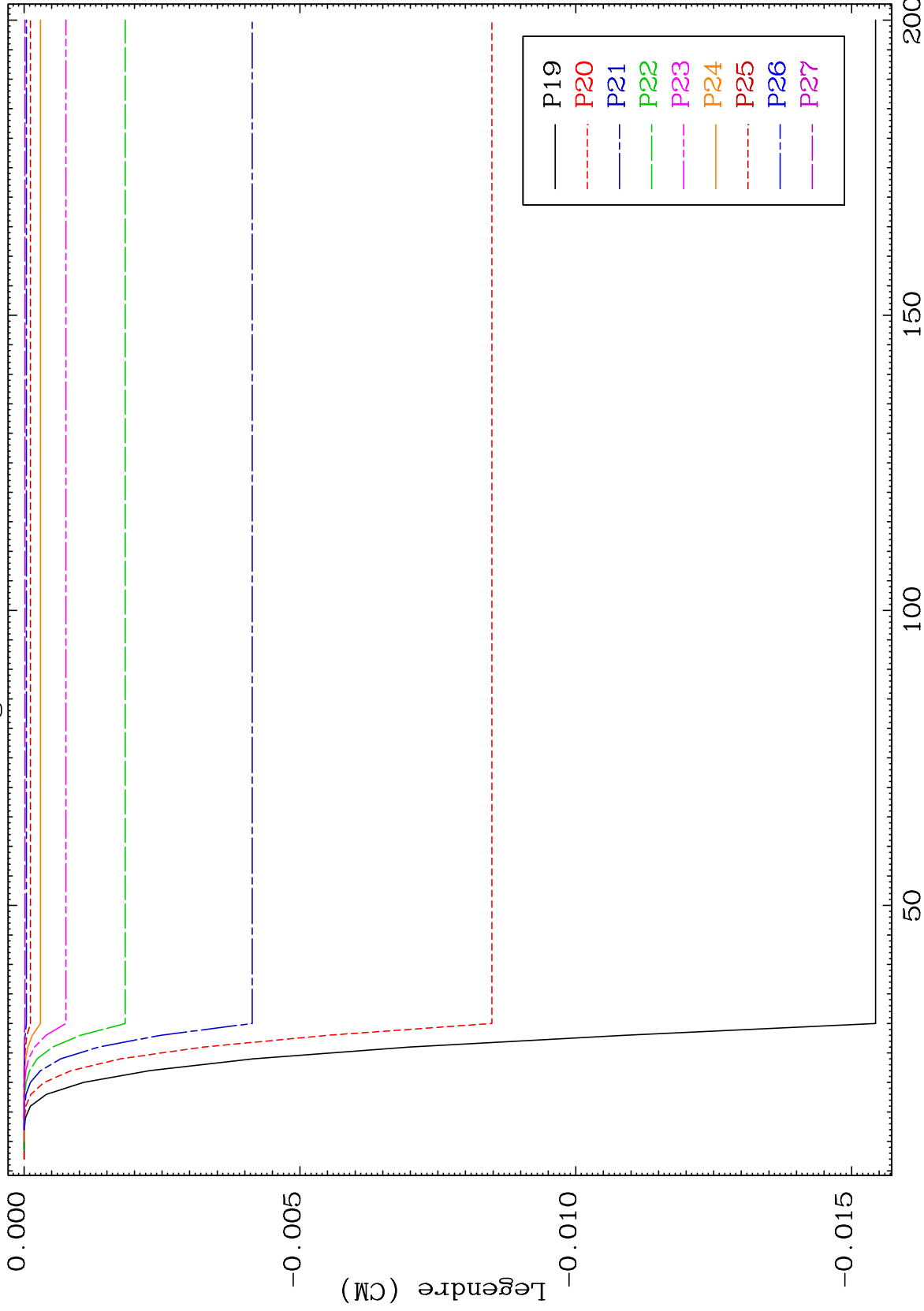


54

Incident Energy (MeV)

56-Ba-128

MAT 5619 MT= 60 (n,n') Level Legendre Coefficients 56-Ba-128

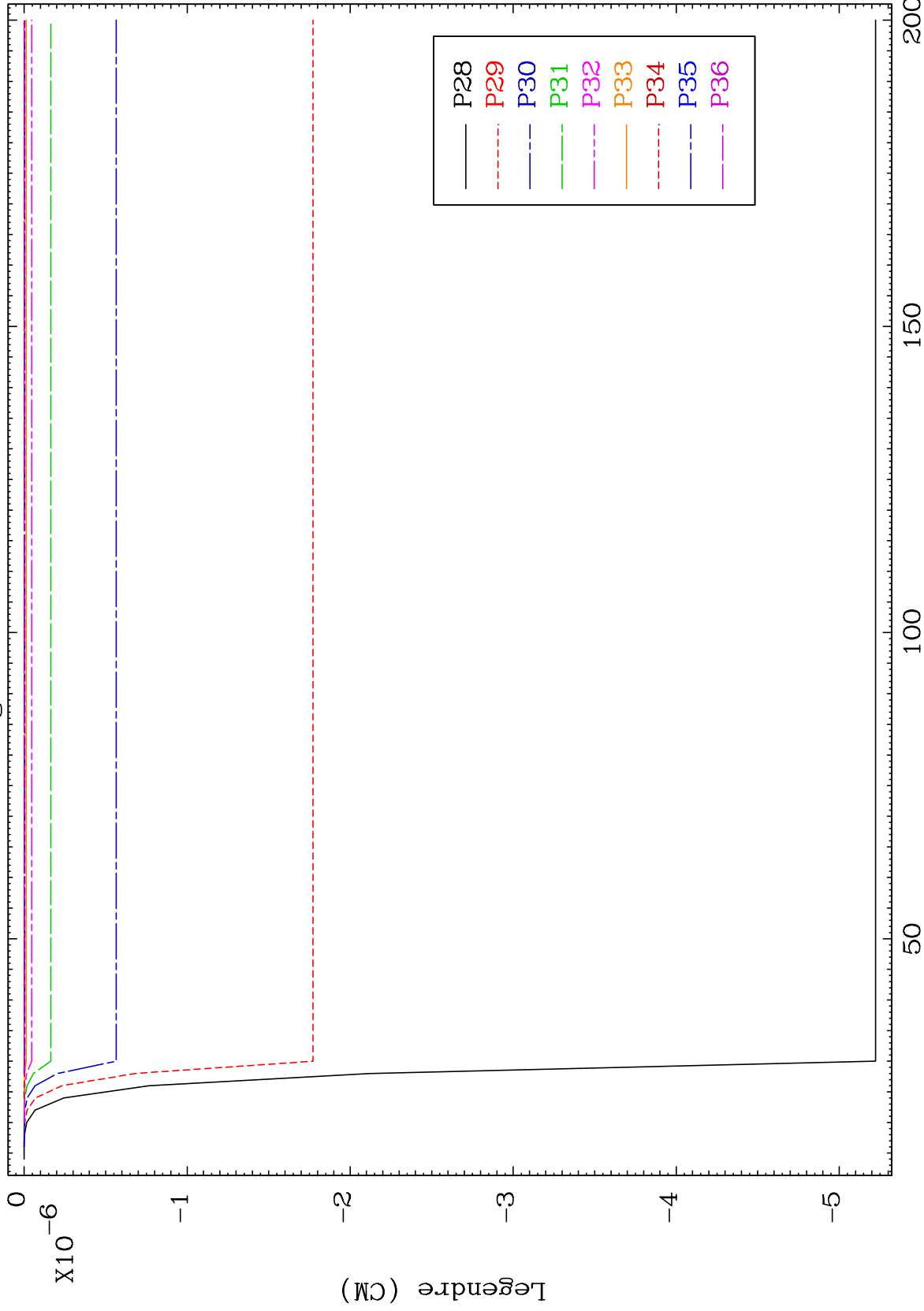


55 Incident Energy (MeV) 56-Ba-128

MAT 5619

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

56-Ba-128



56

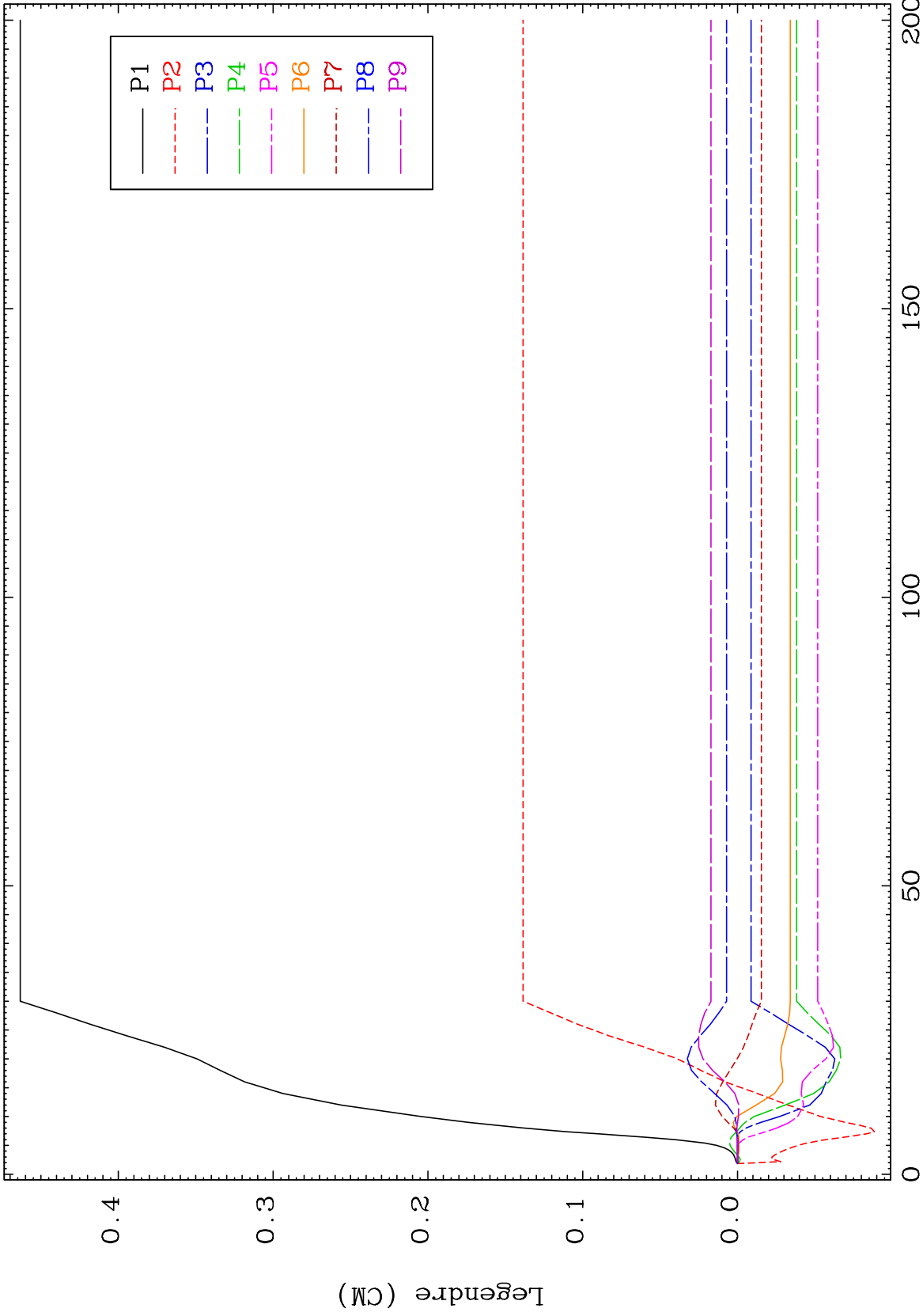
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



57

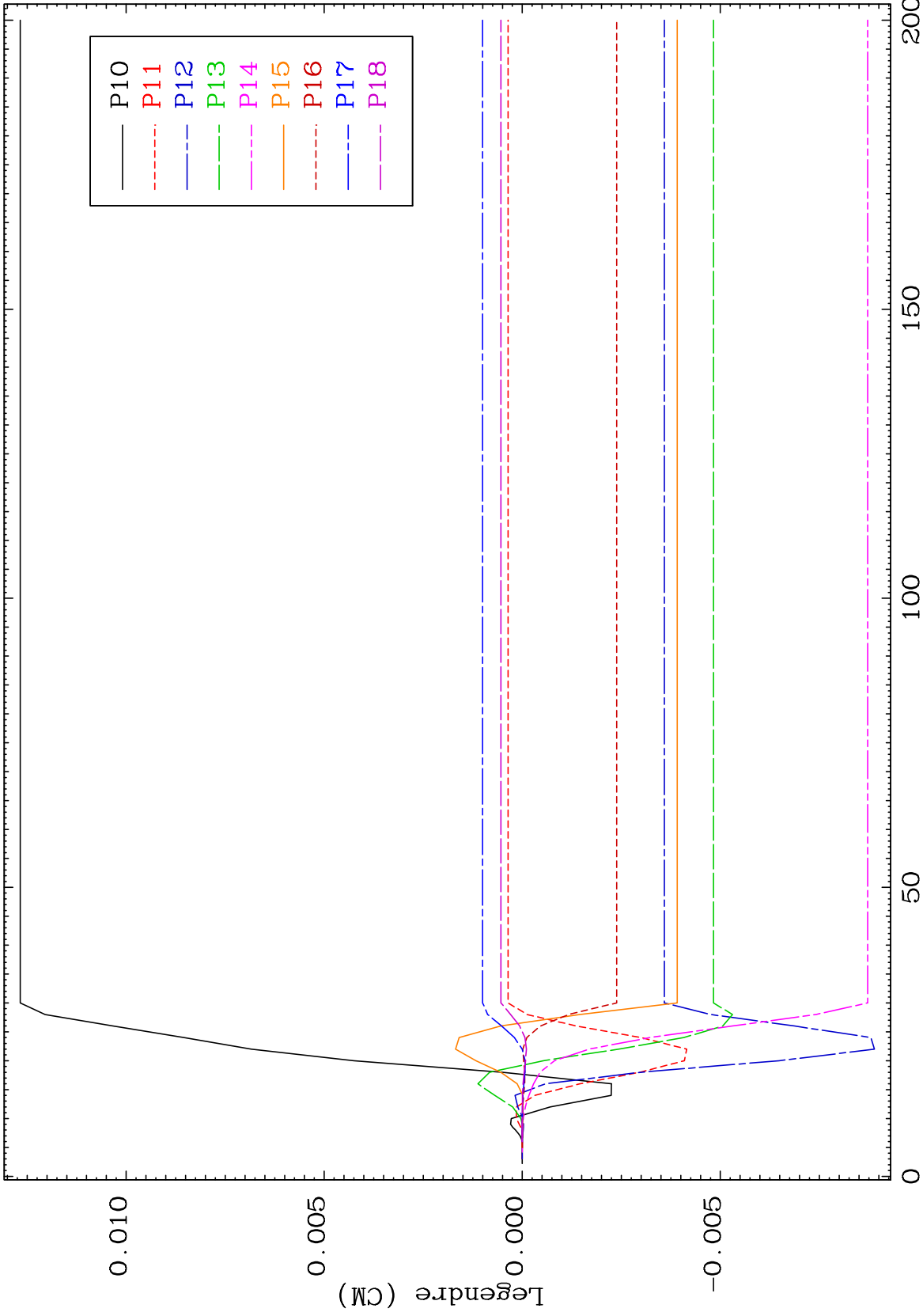
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



58

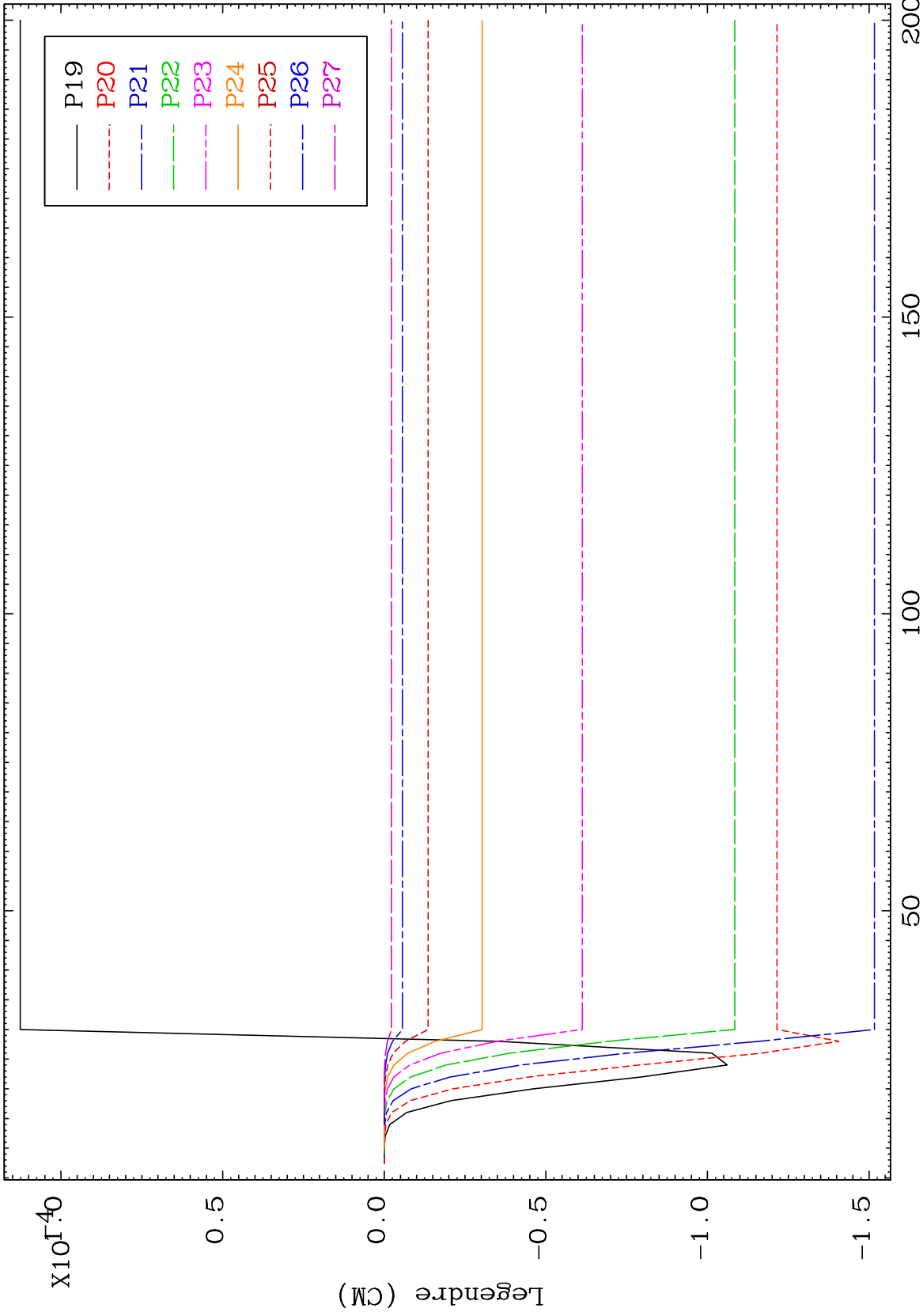
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



59

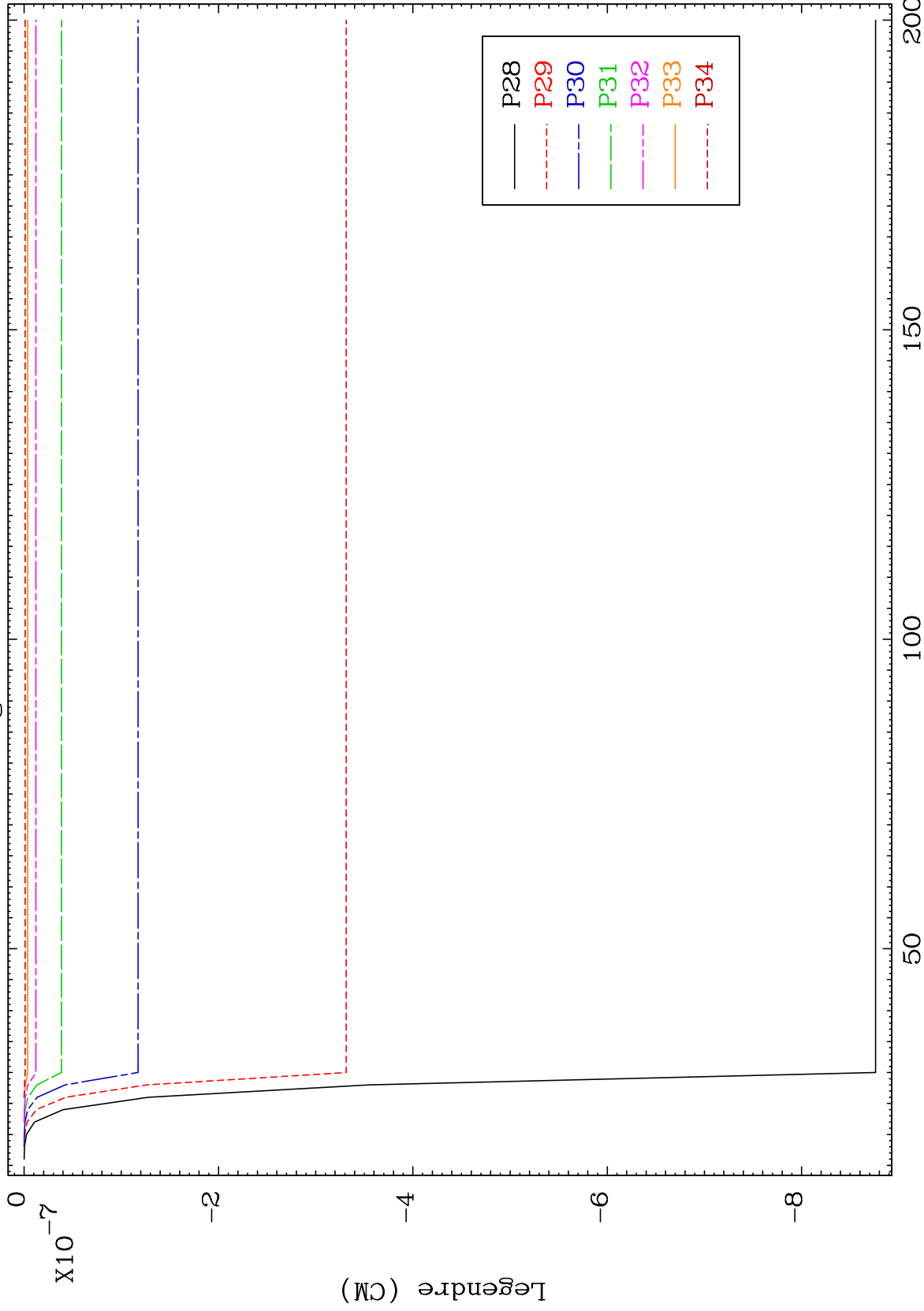
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



56-Ba-128

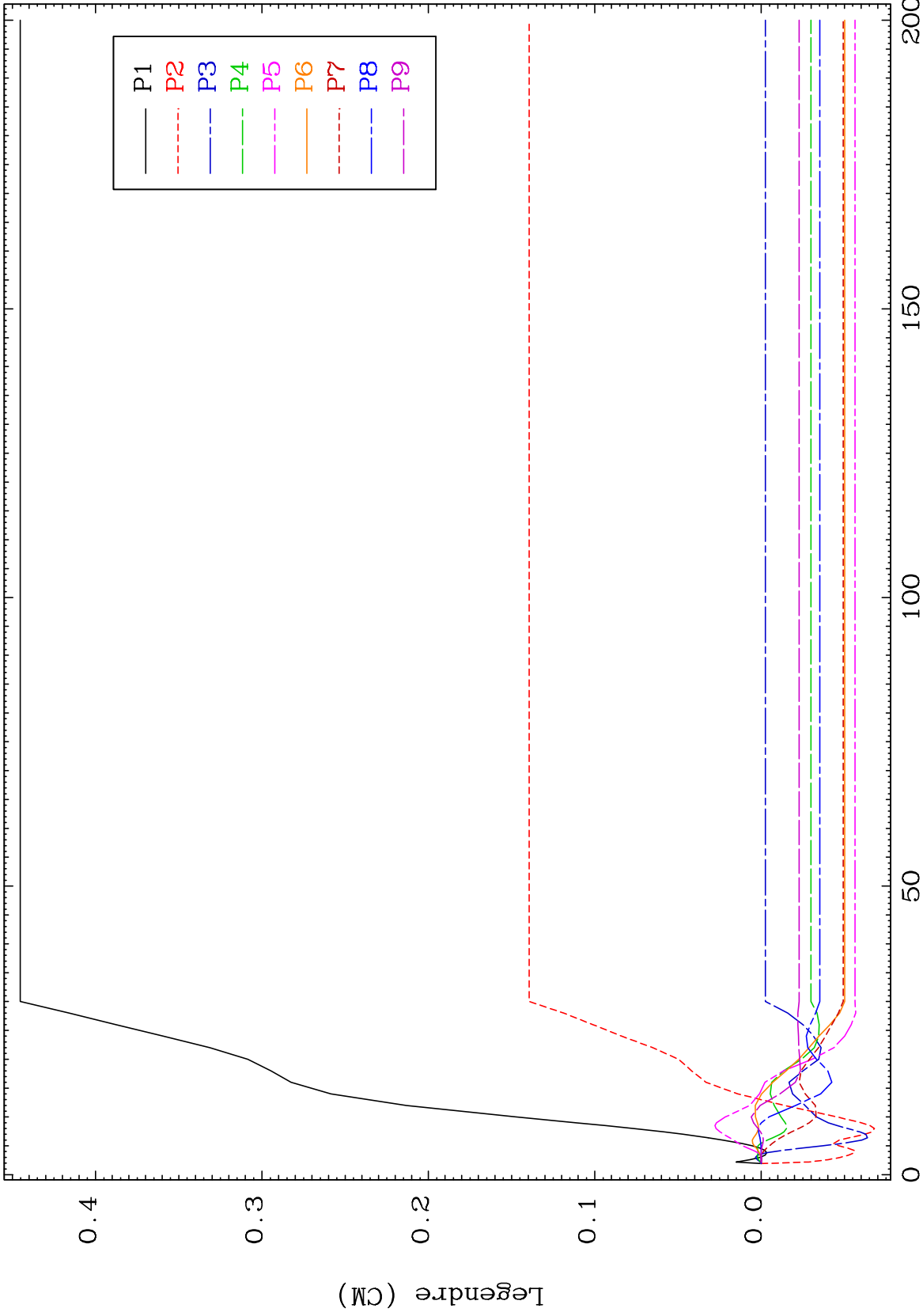
Incident Energy (MeV)

60

MAT 5619

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

56-Ba-128



61

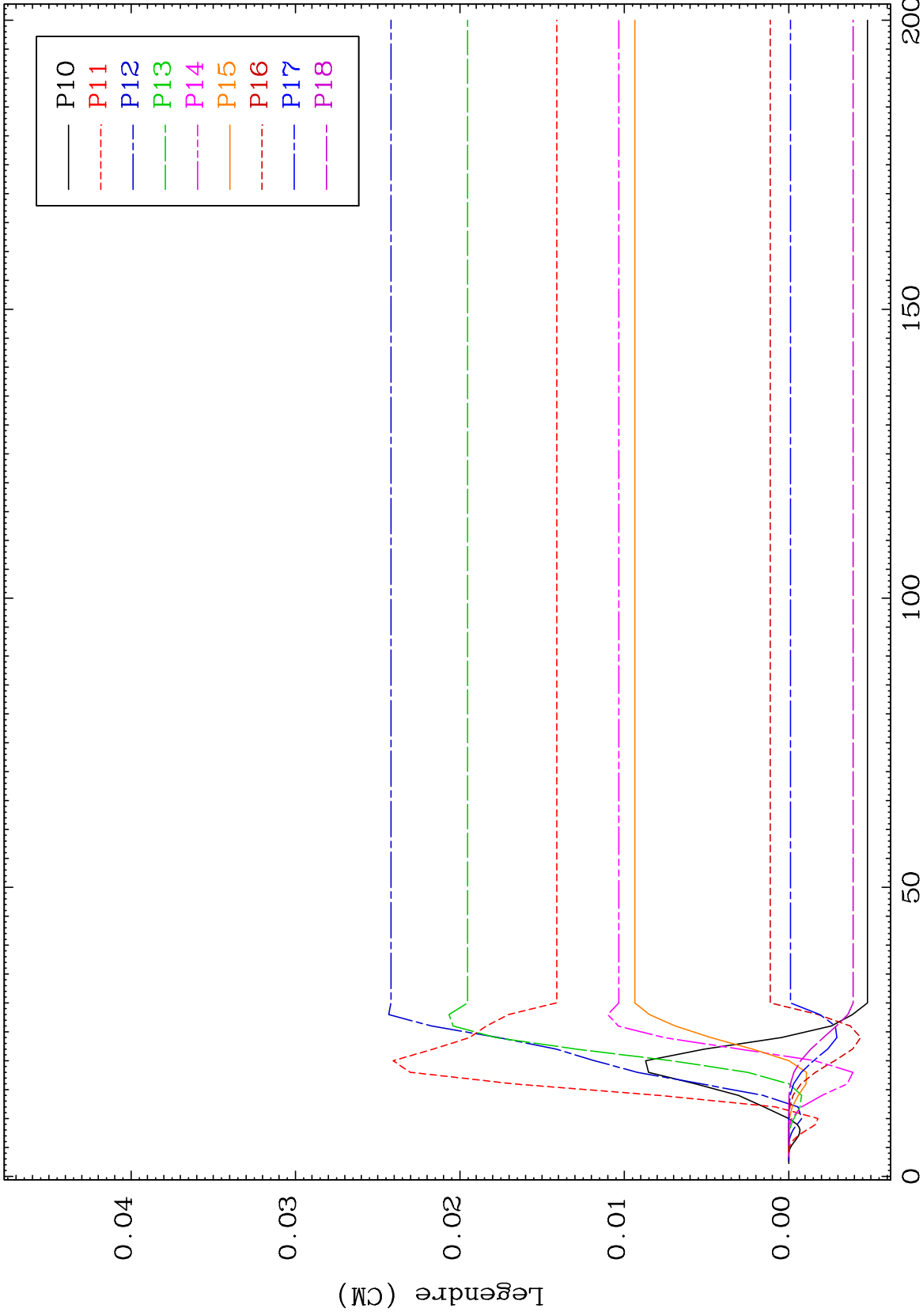
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



62

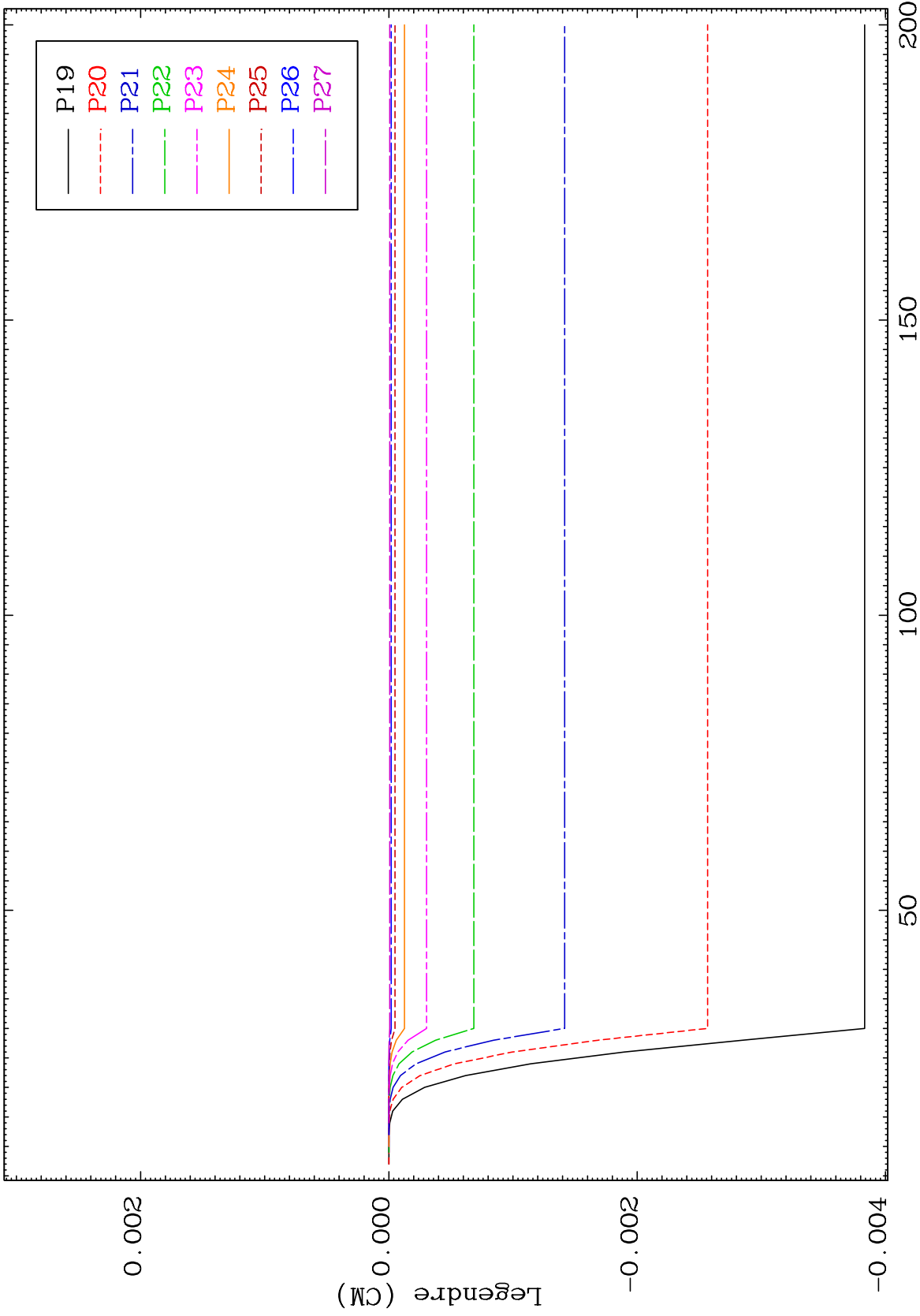
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



63

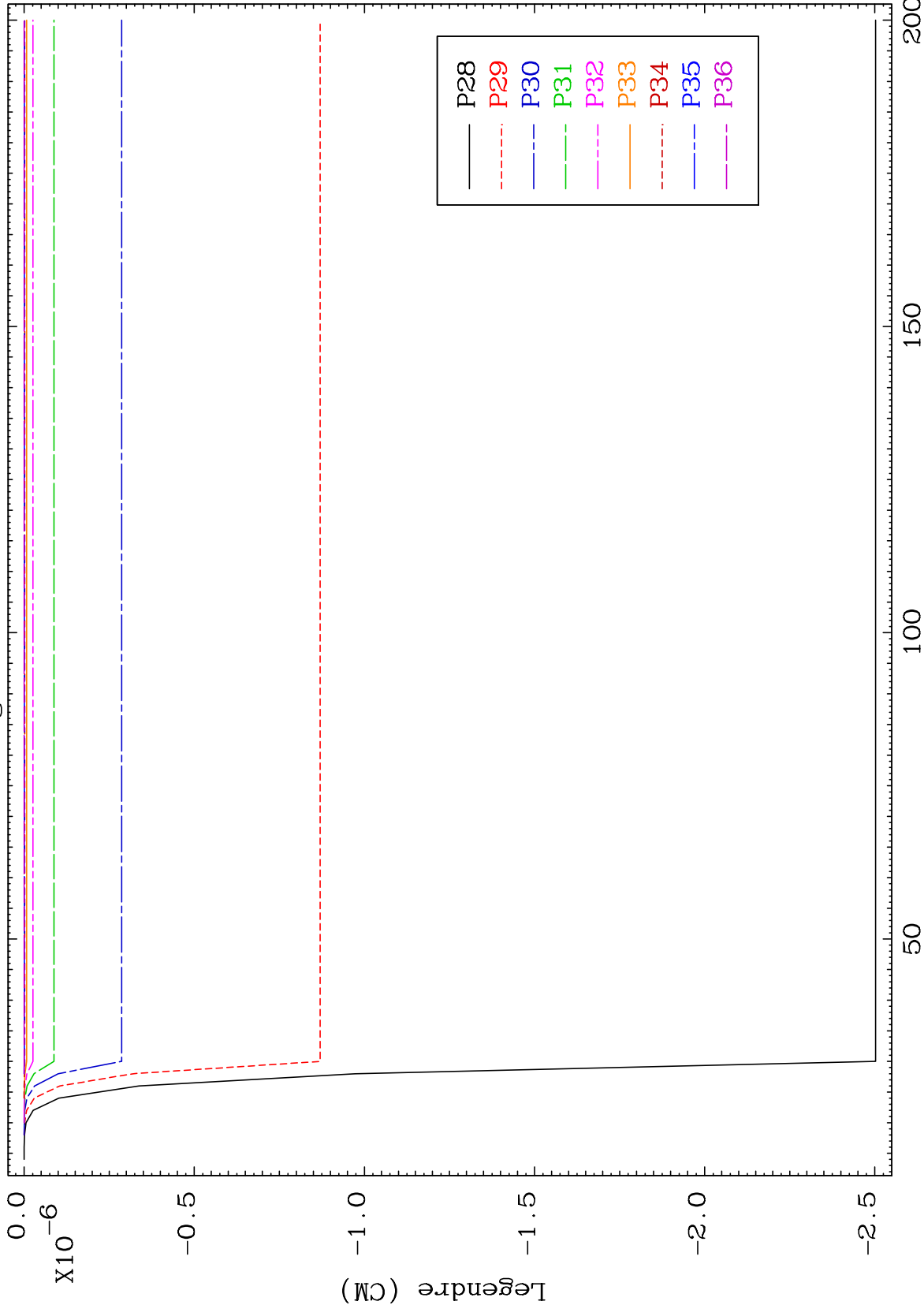
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128

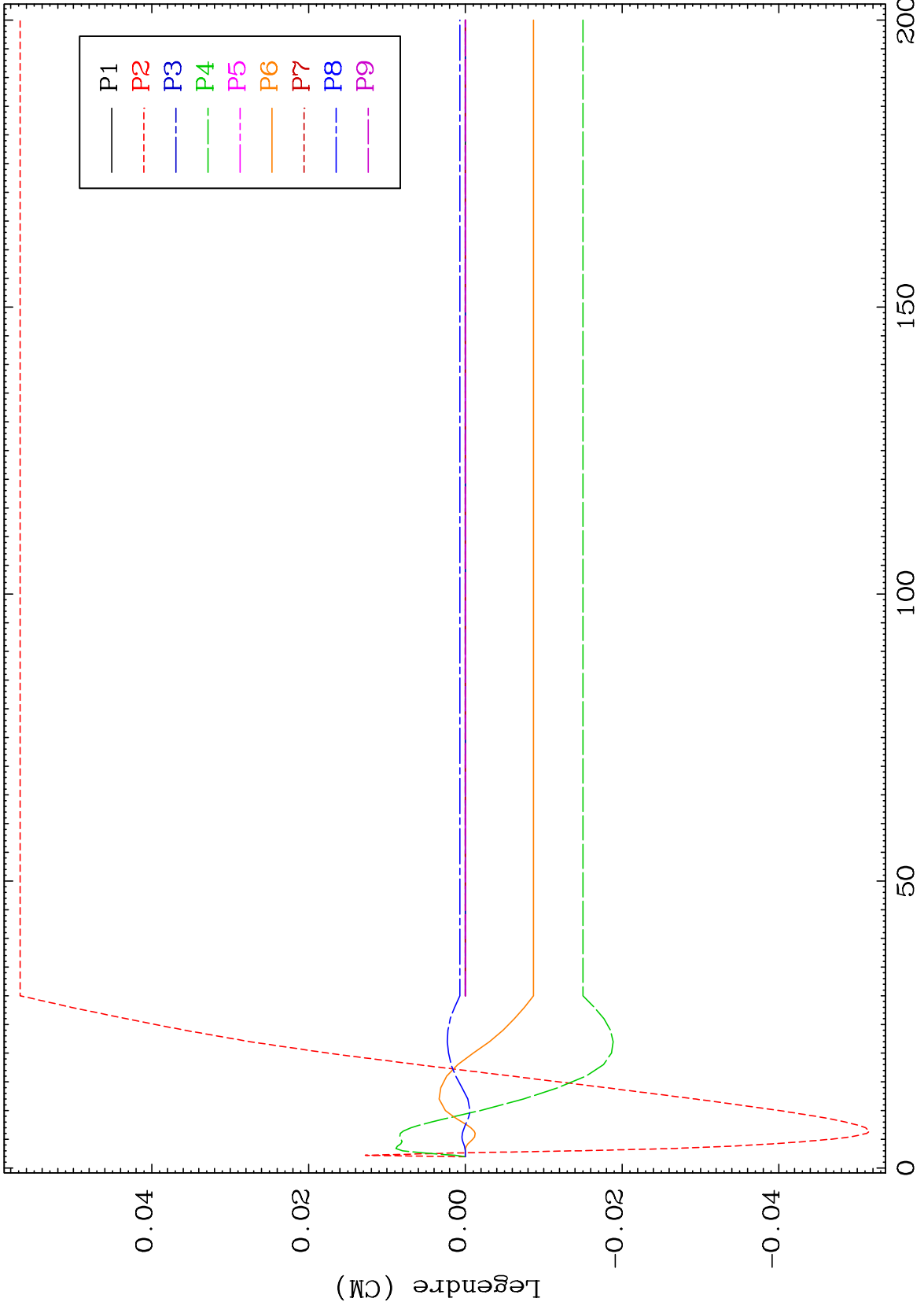


56-Ba-128

Incident Energy (MeV)

64

MAT 5619 MT= 63 (n,n') Level Legendre Coefficients 56-Ba-128

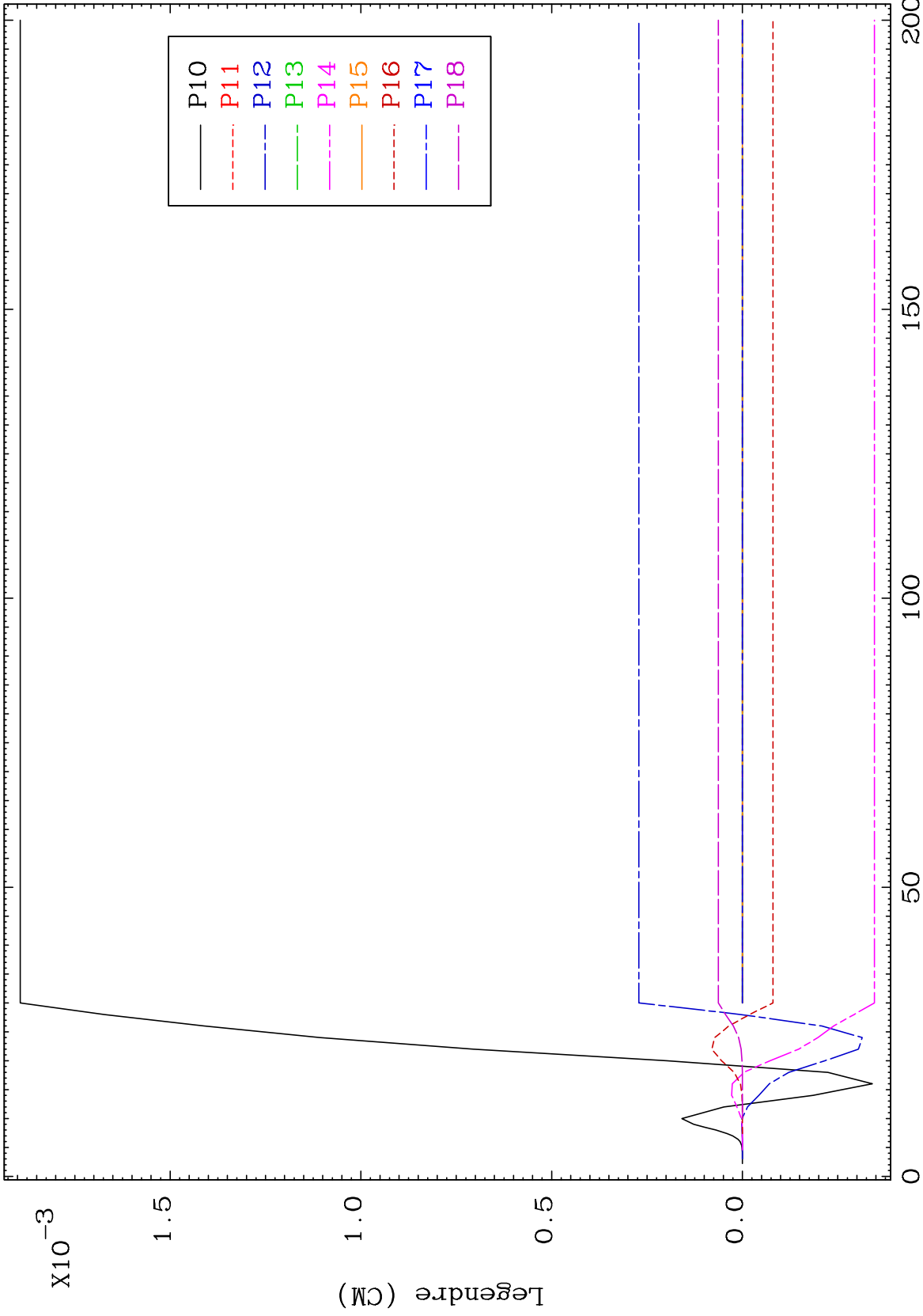


65 56-Ba-128

MAT 5619

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

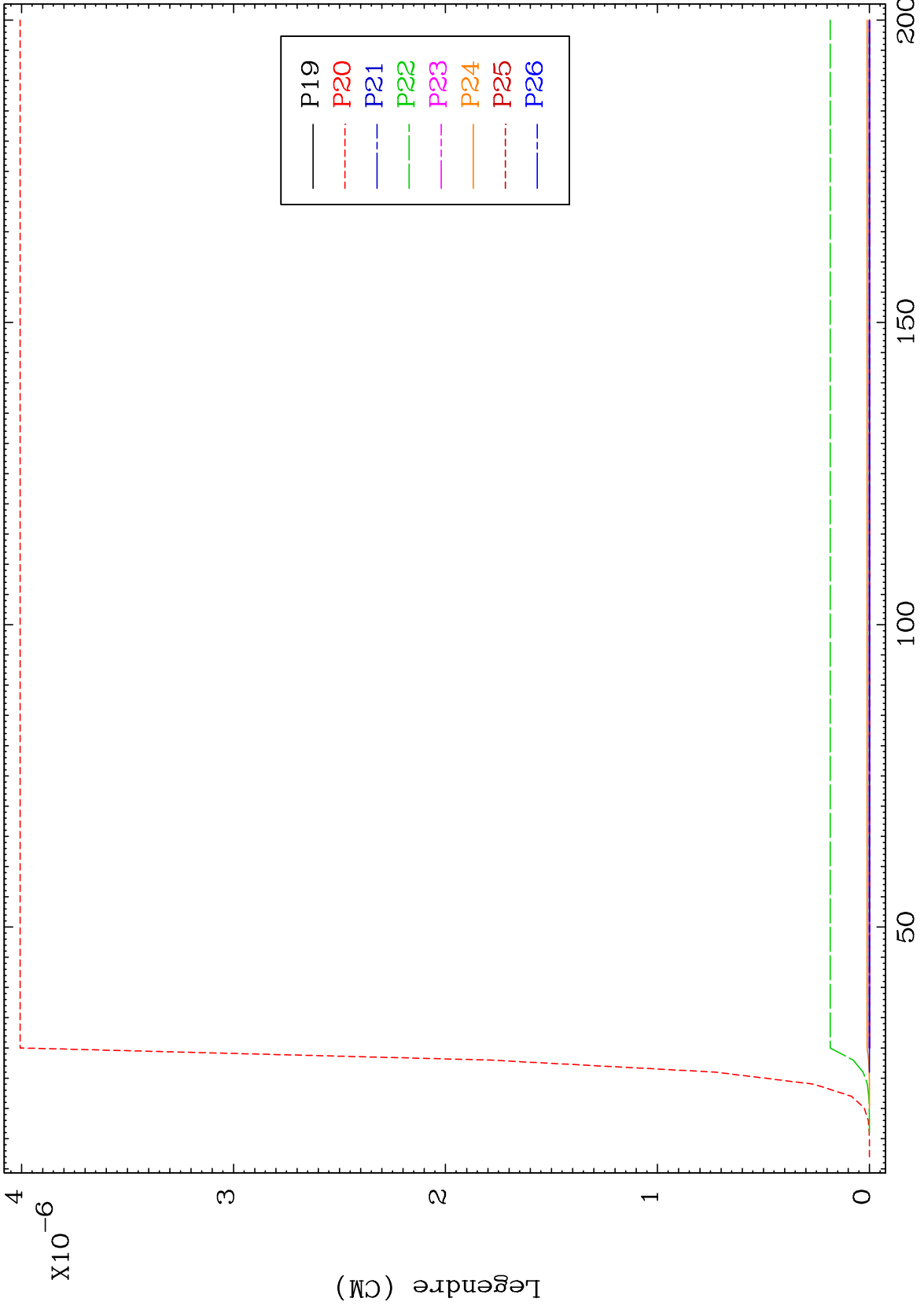
56-Ba-128



66

56-Ba-128

MAT 5619 MT= 63 (n,n') Level Legendre Coefficients 56-Ba-128

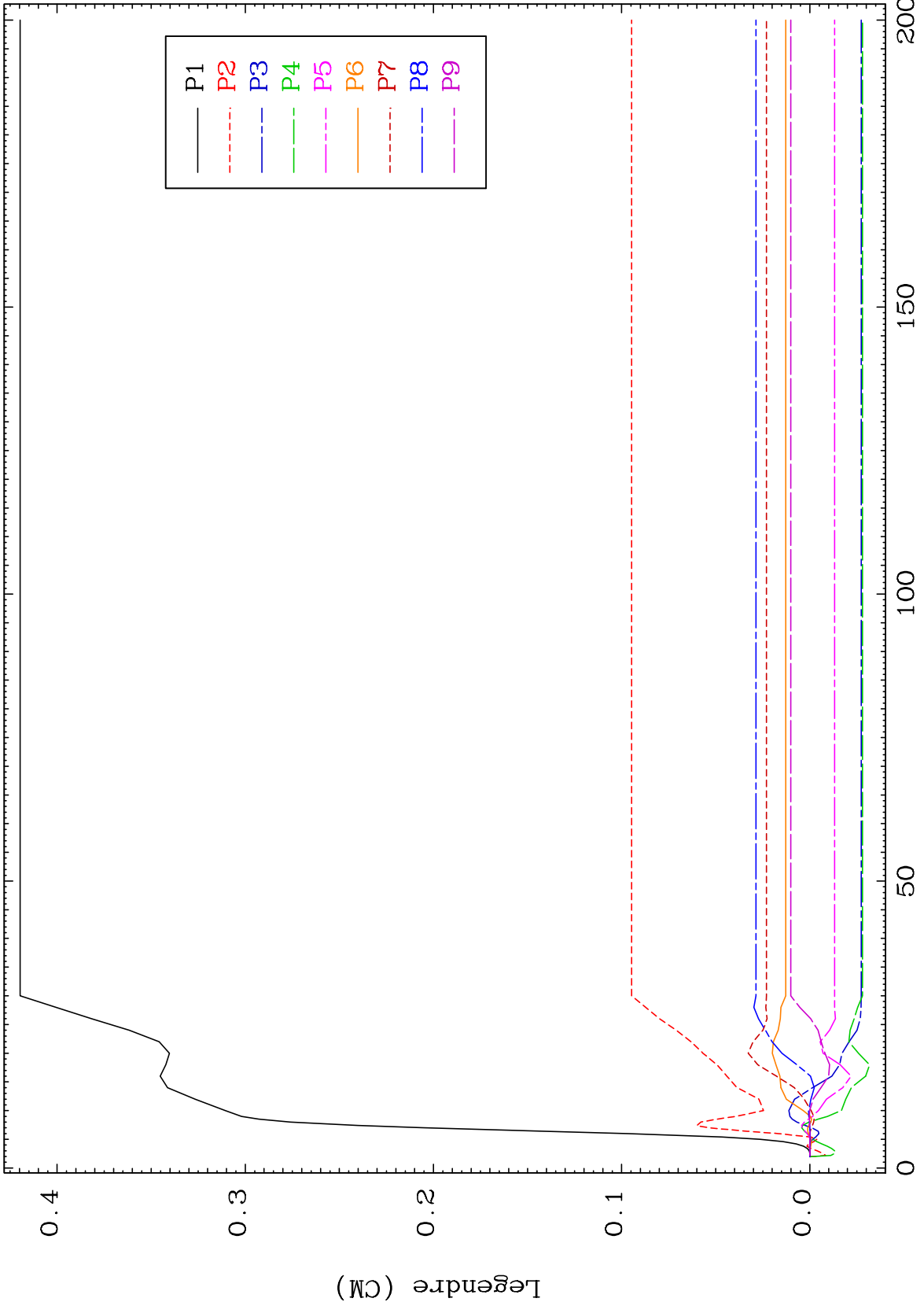


67 56-Ba-128

MAT 5619

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

56-Ba-128



68

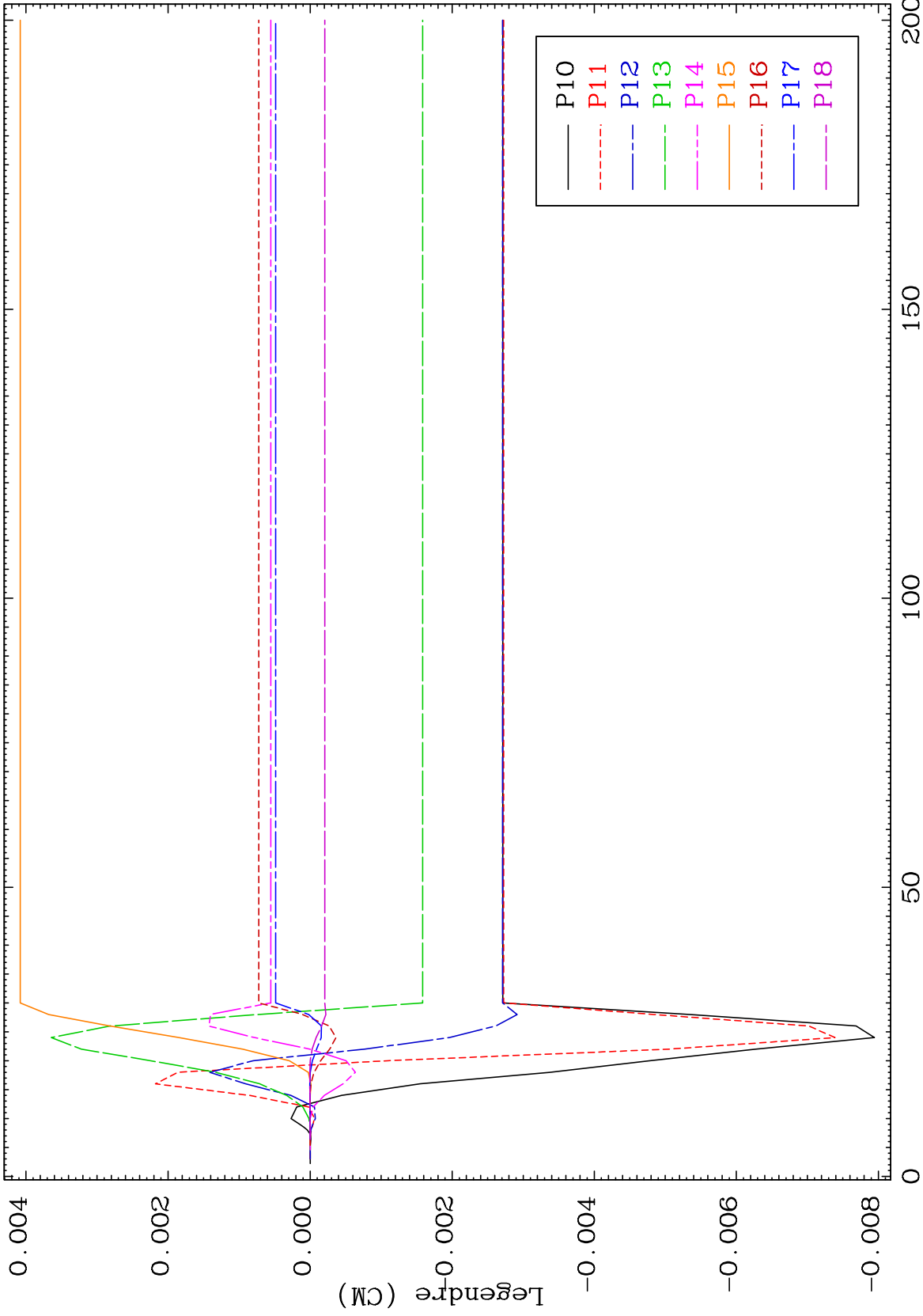
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



69

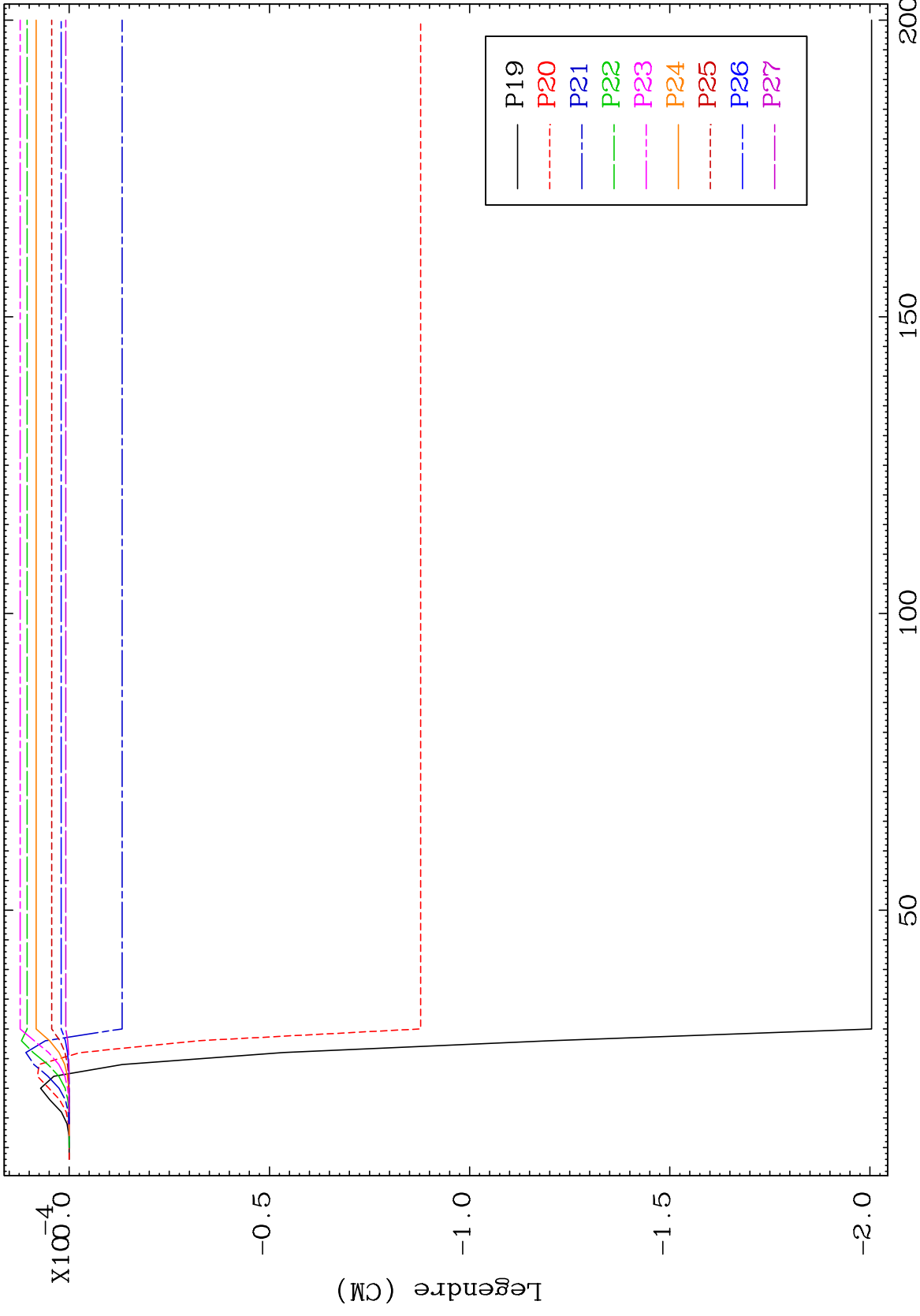
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



56-Ba-128

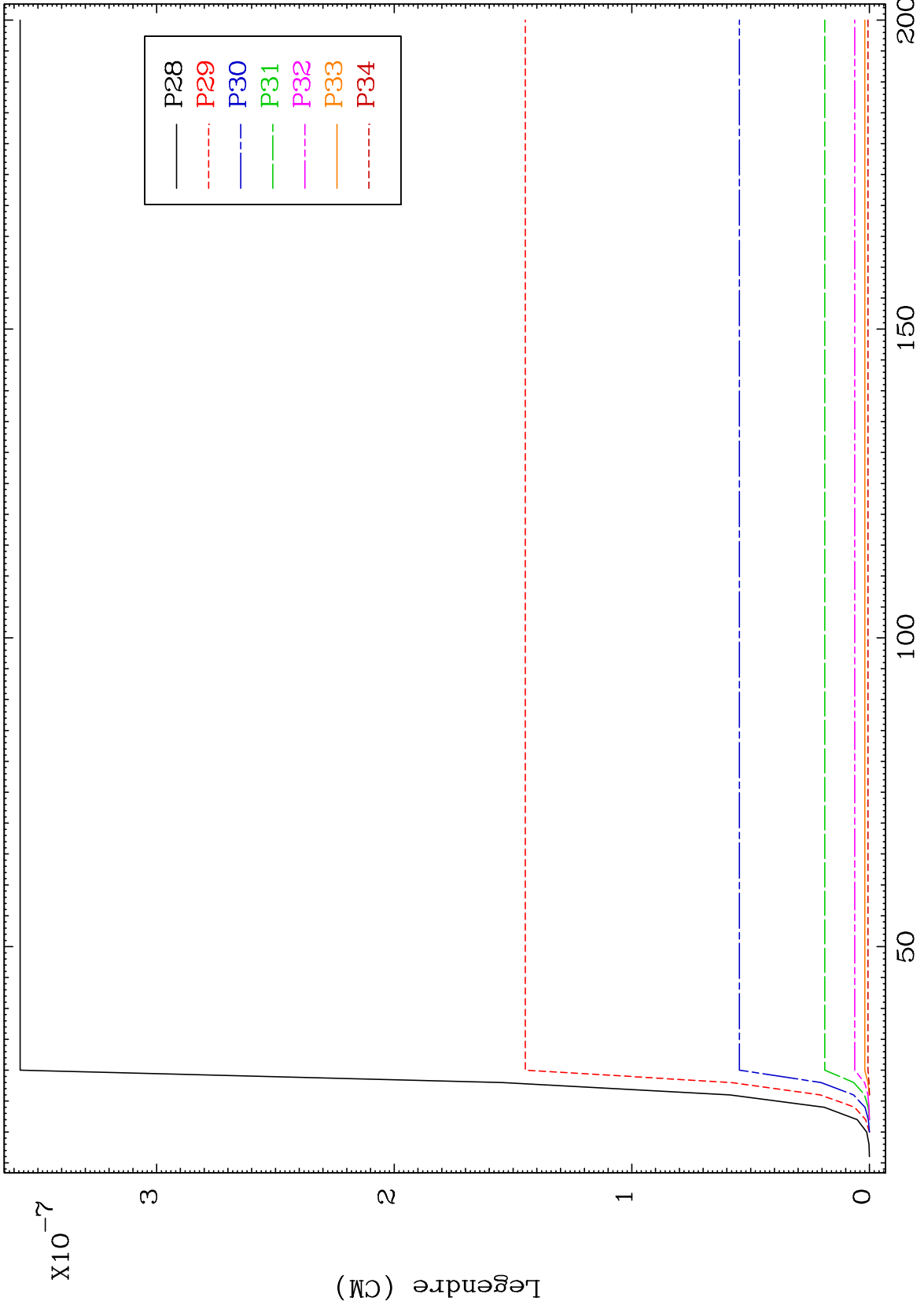
Incident Energy (MeV)

70

MAT 5619

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

56-Ba-128



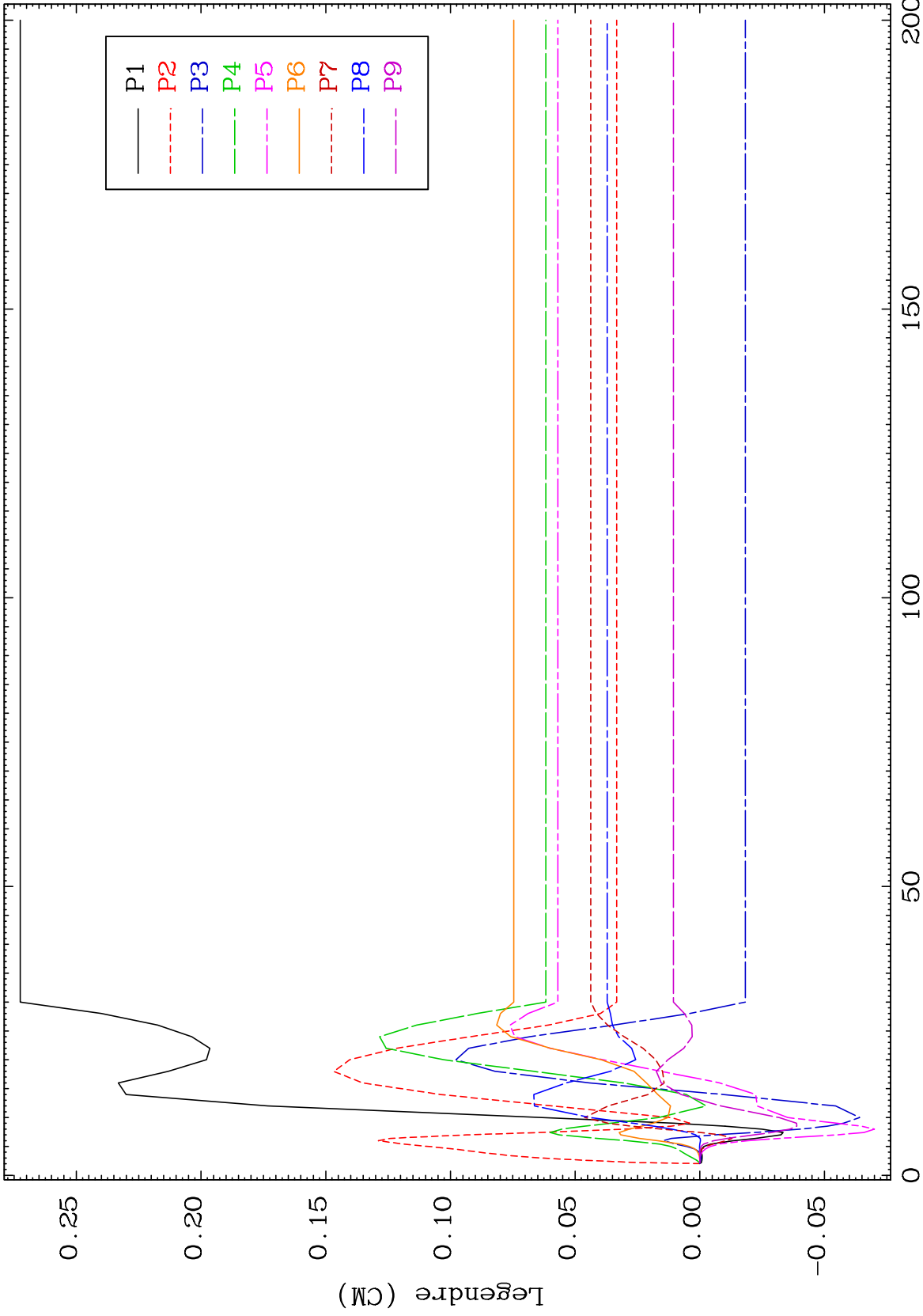
71

56-Ba-128

MAT 5619

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

56-Ba-128



72

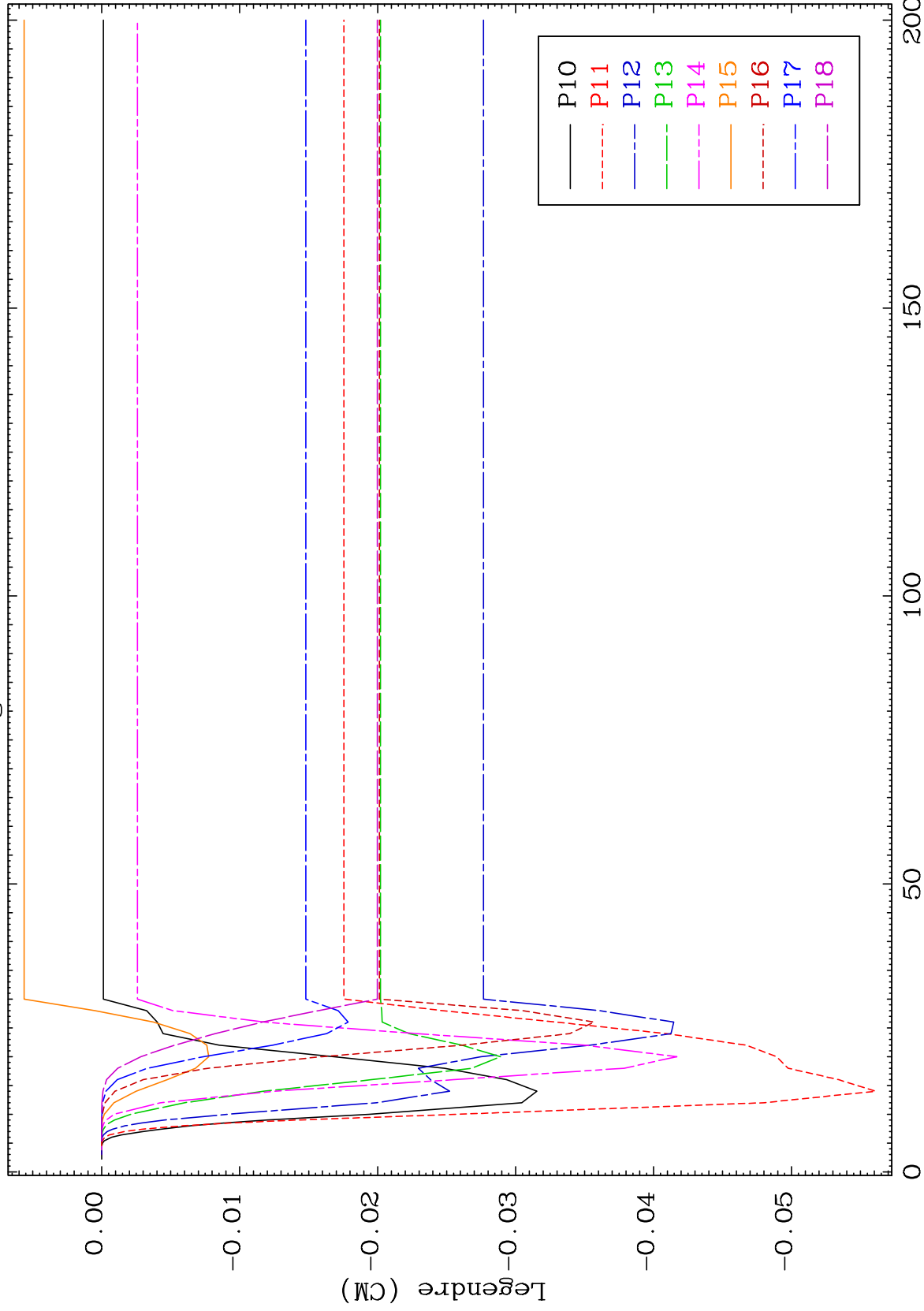
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128

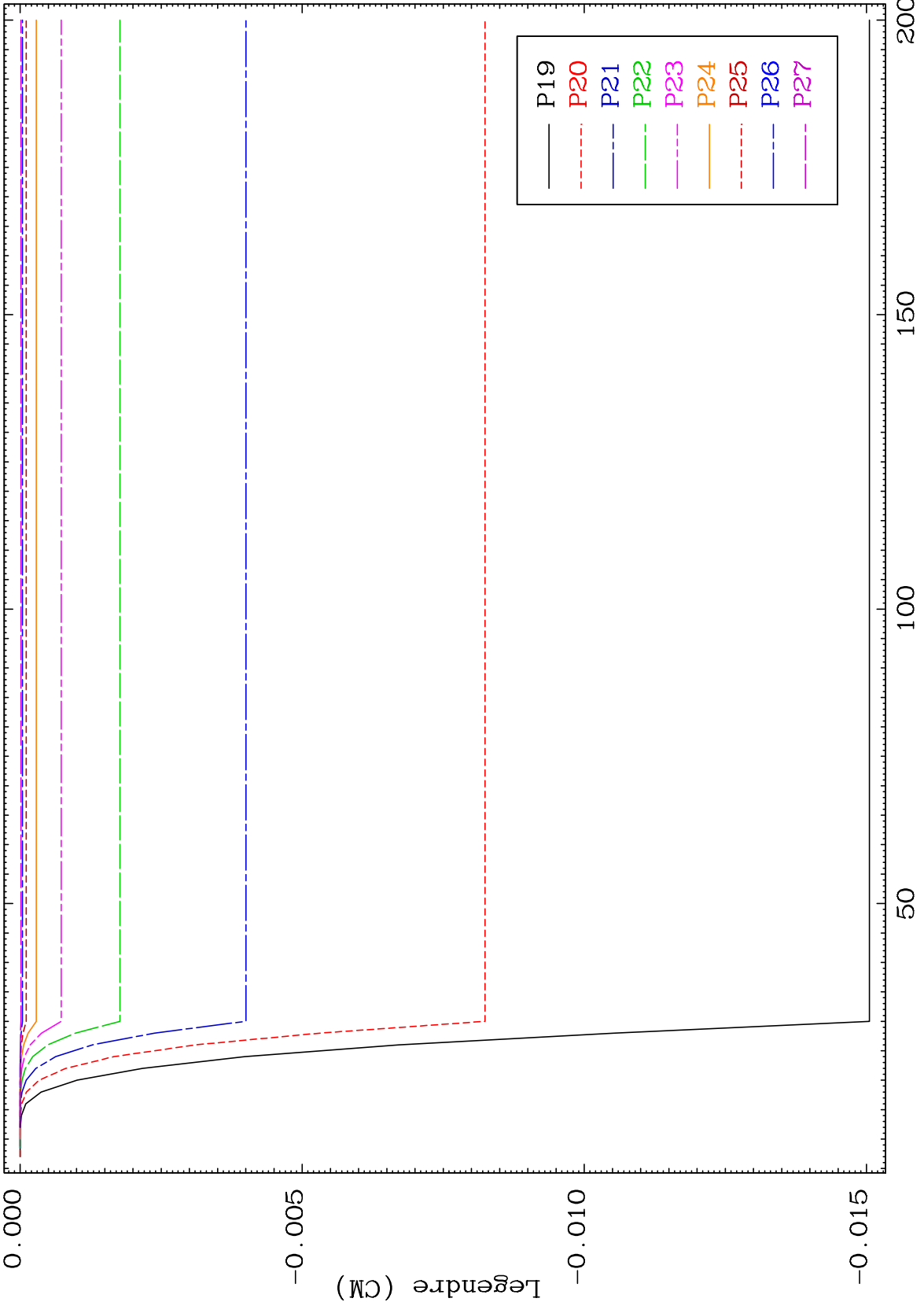


73

Incident Energy (MeV)

56-Ba-128

MAT 5619 MT= 65 (n,n') Level Legendre Coefficients 56-Ba-128

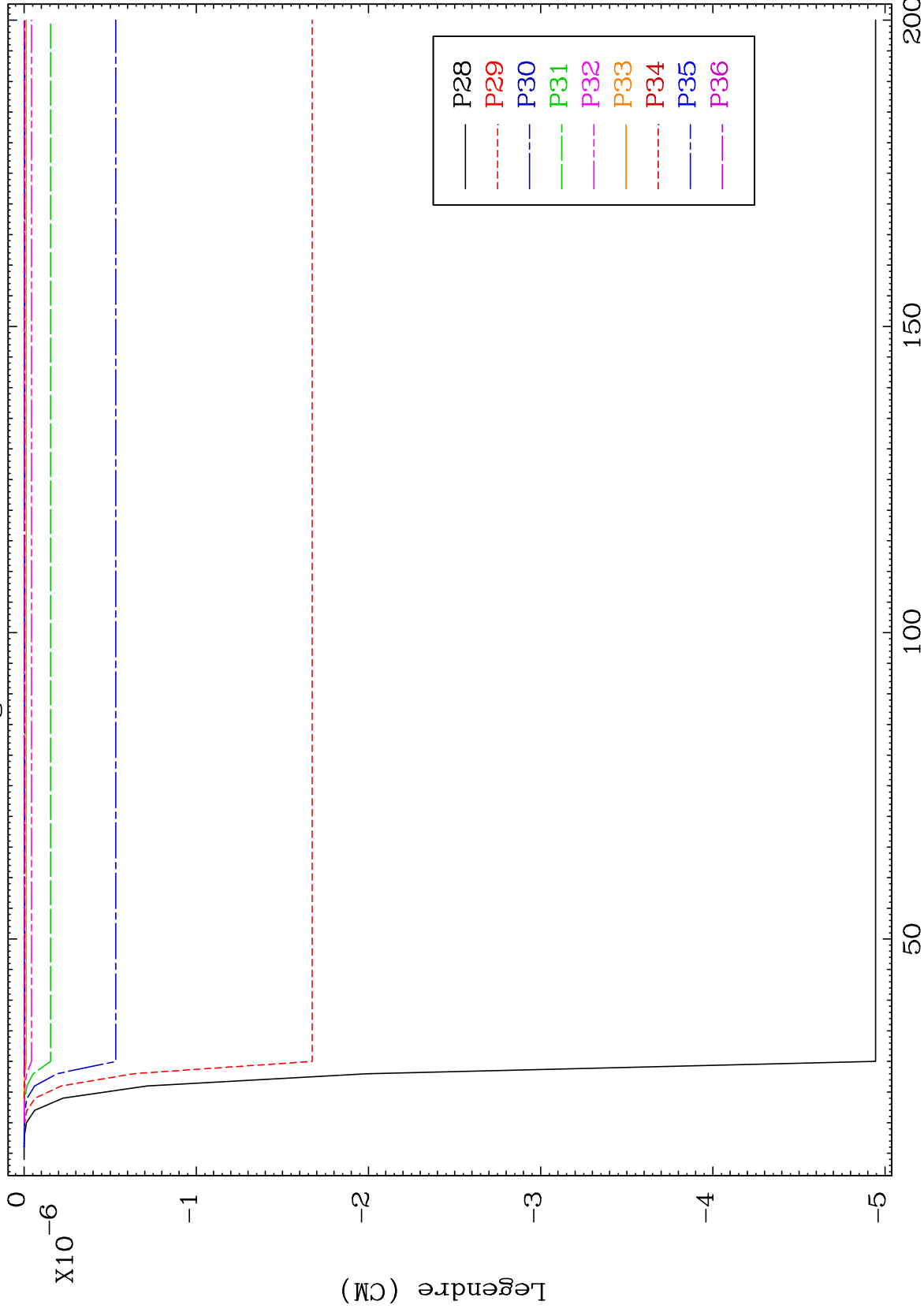


74 56-Ba-128

MAT 5619

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

56-Ba-128



56-Ba-128

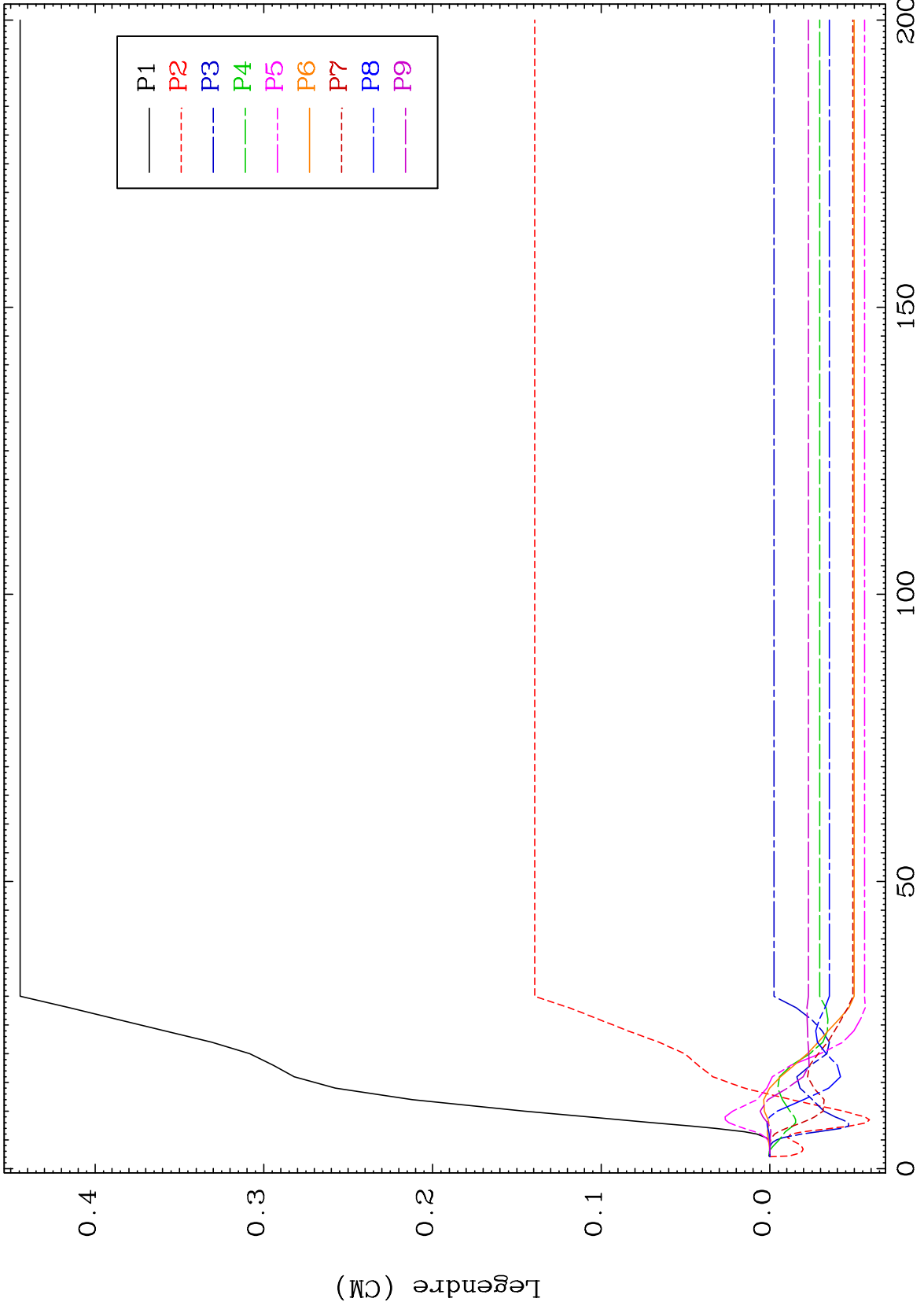
Incident Energy (MeV)

75

MAT 5619

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

56-Ba-128



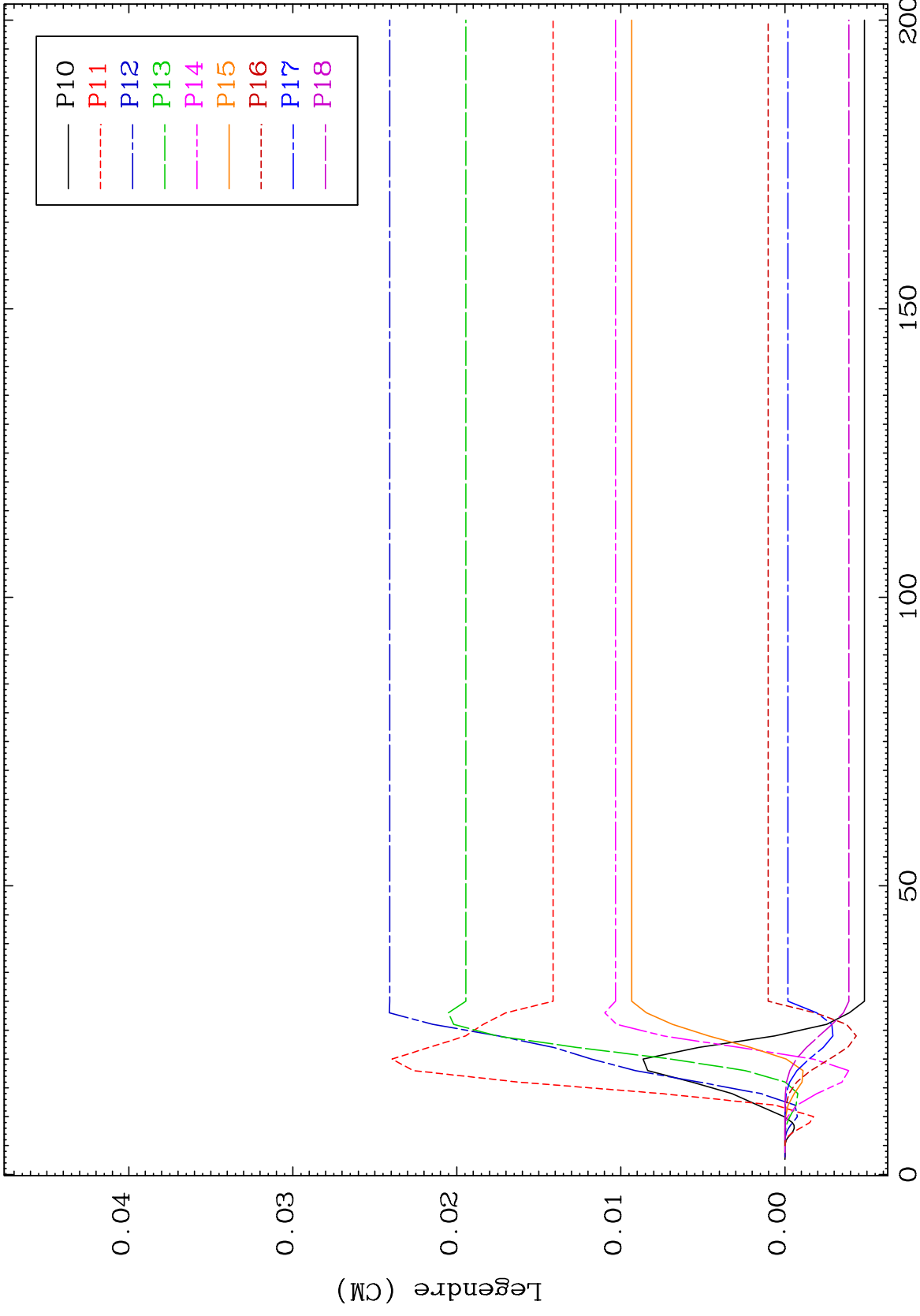
76

56-Ba-128

MAT 5619

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

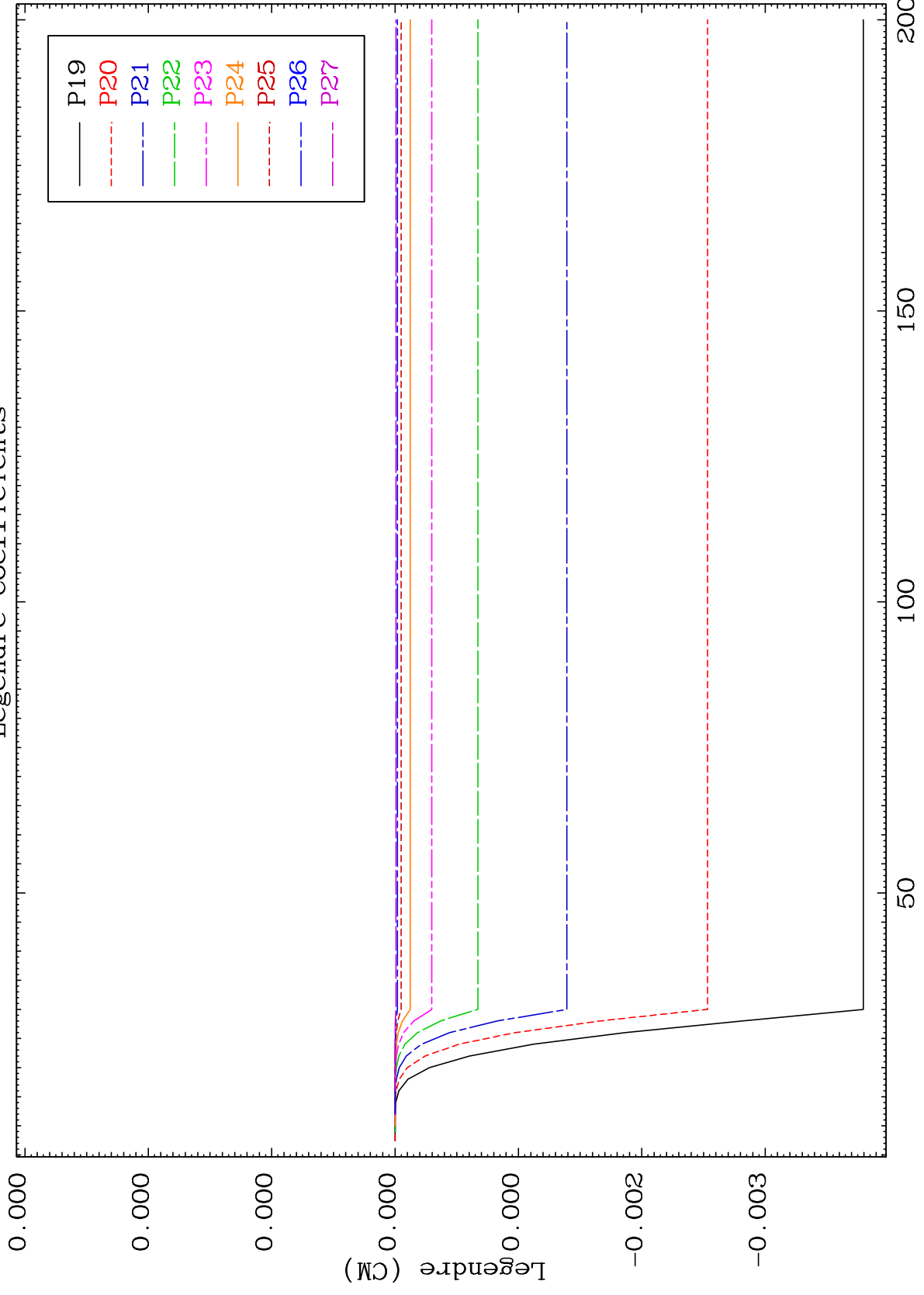
56-Ba-128



77

56-Ba-128

MAT 5619 MT= 66 (n,n') Level Legendre Coefficients 56-Ba-128

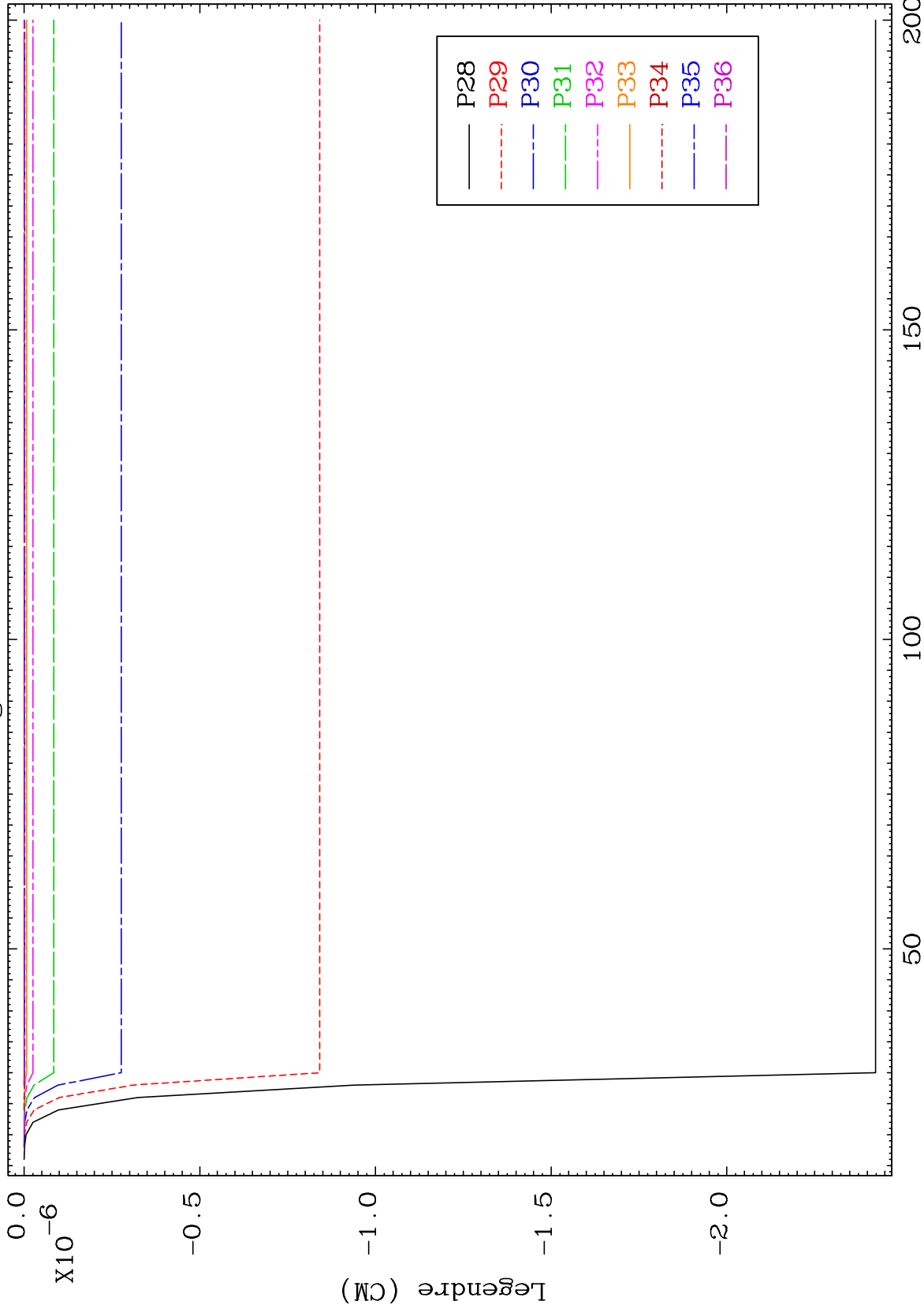


78 56-Ba-128

MAT 5619

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

56-Ba-128



56-Ba-128

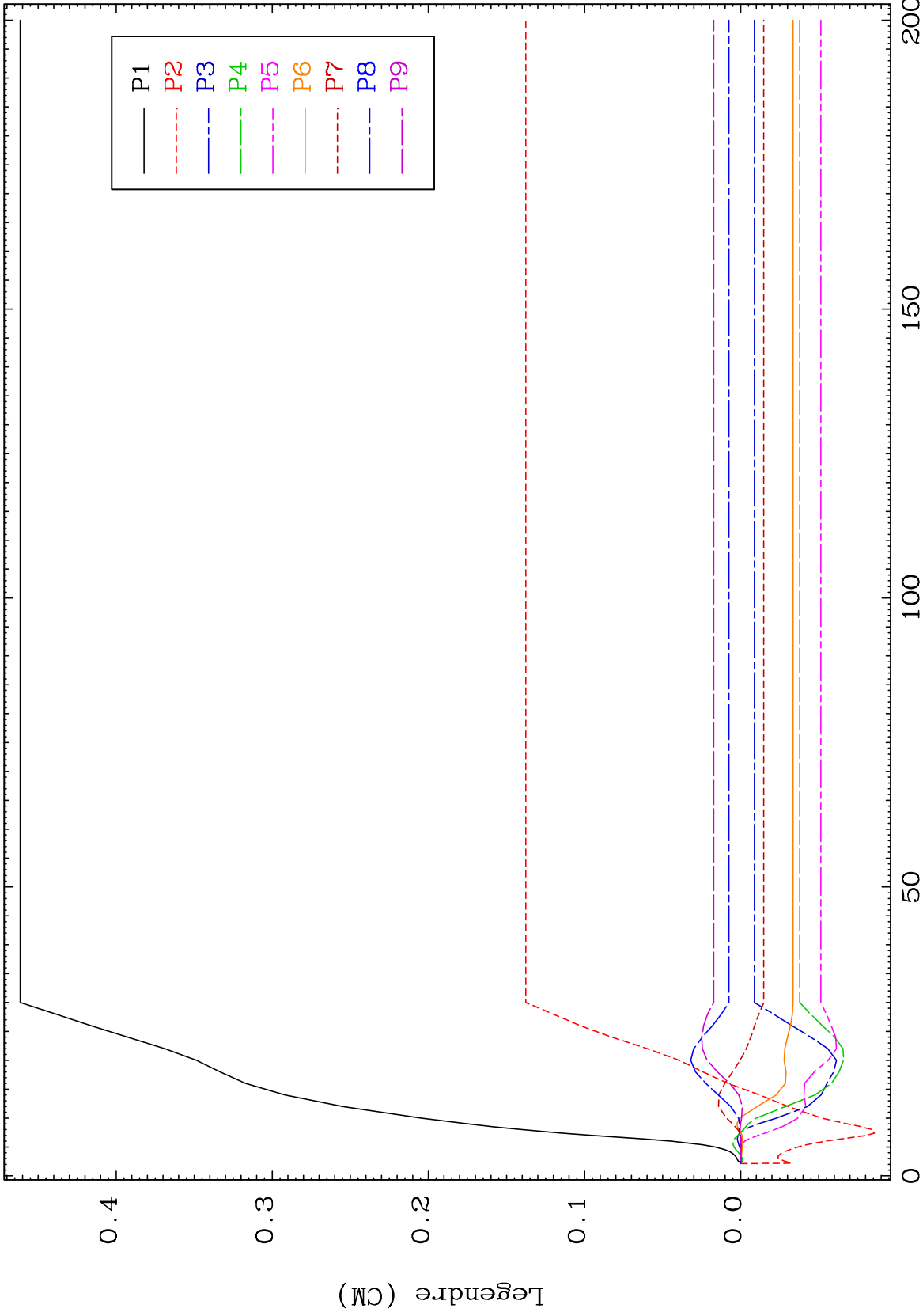
Incident Energy (MeV)

79

MAT 5619

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

56-Ba-128



80

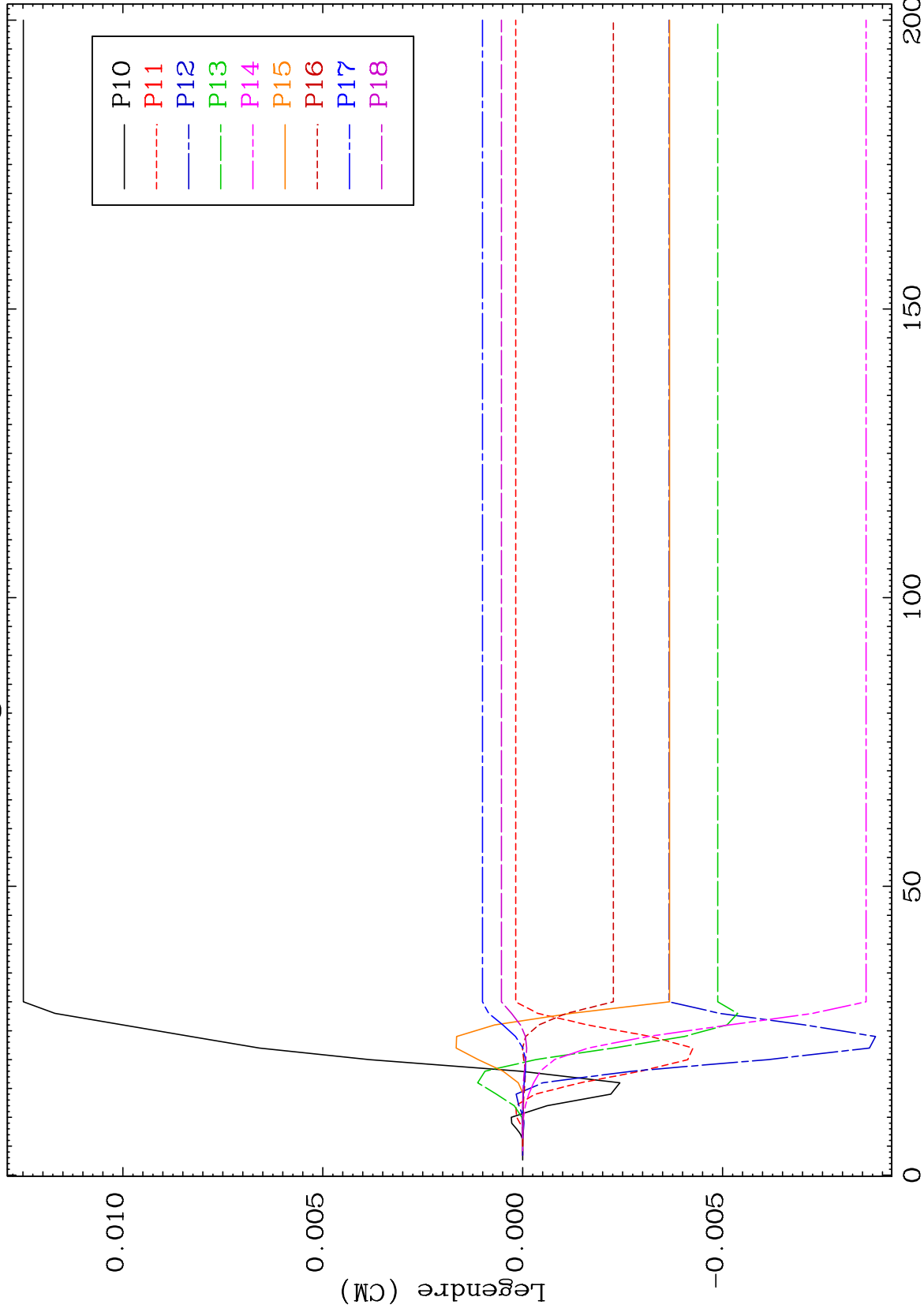
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



81

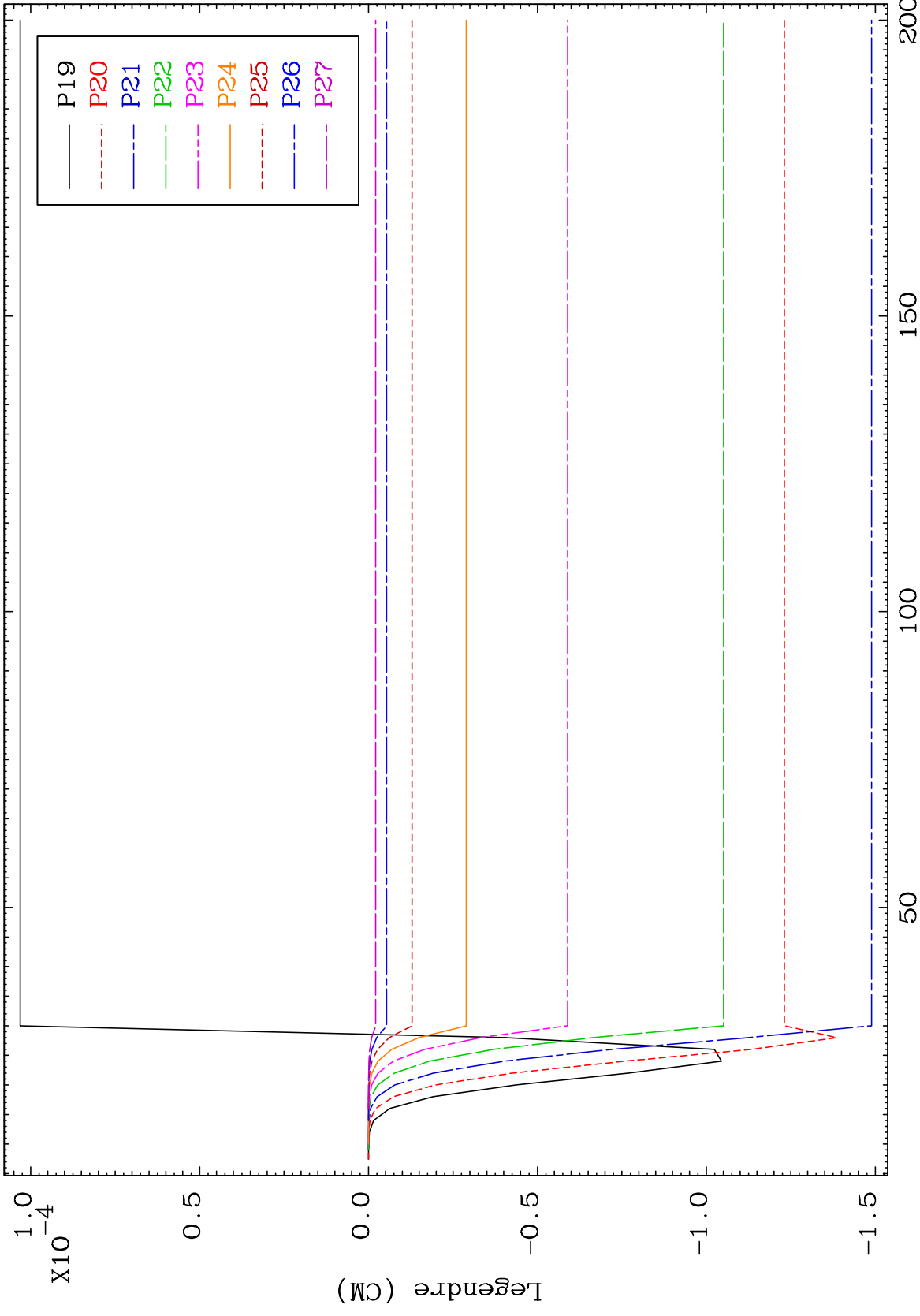
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



82

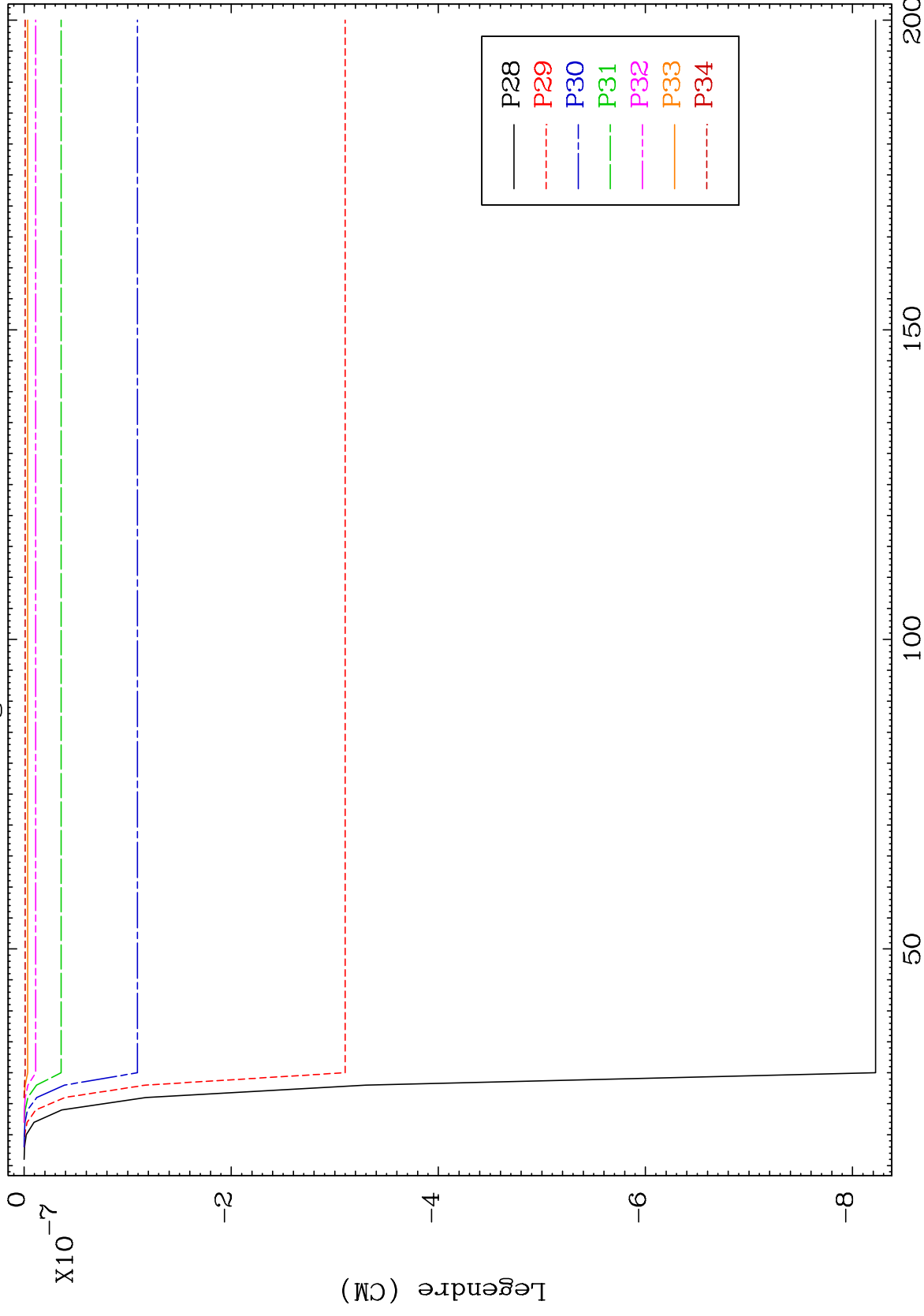
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

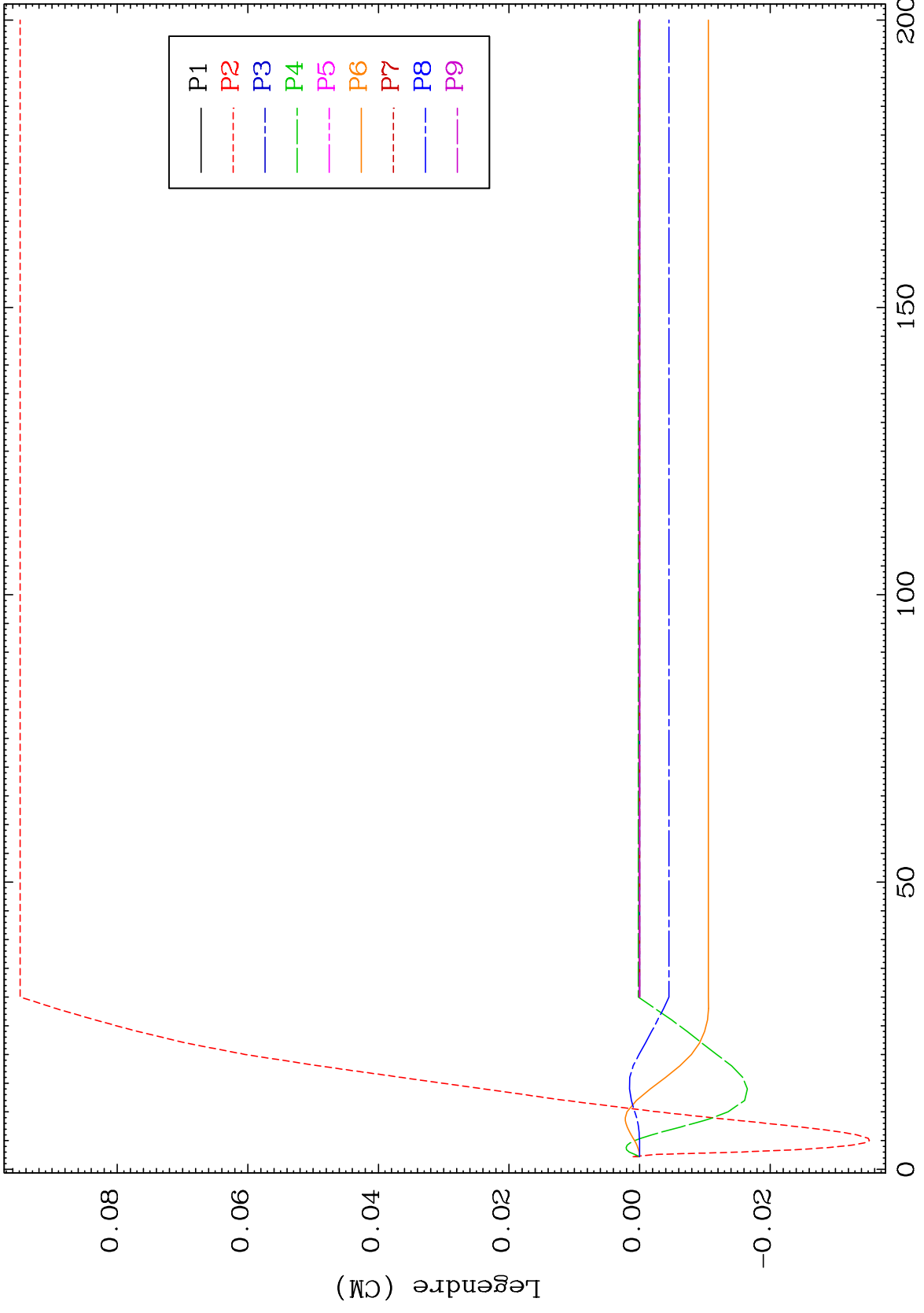
56-Ba-128



83

56-Ba-128

MAT 5619 MT= 68 (n,n') Level Legendre Coefficients 56-Ba-128

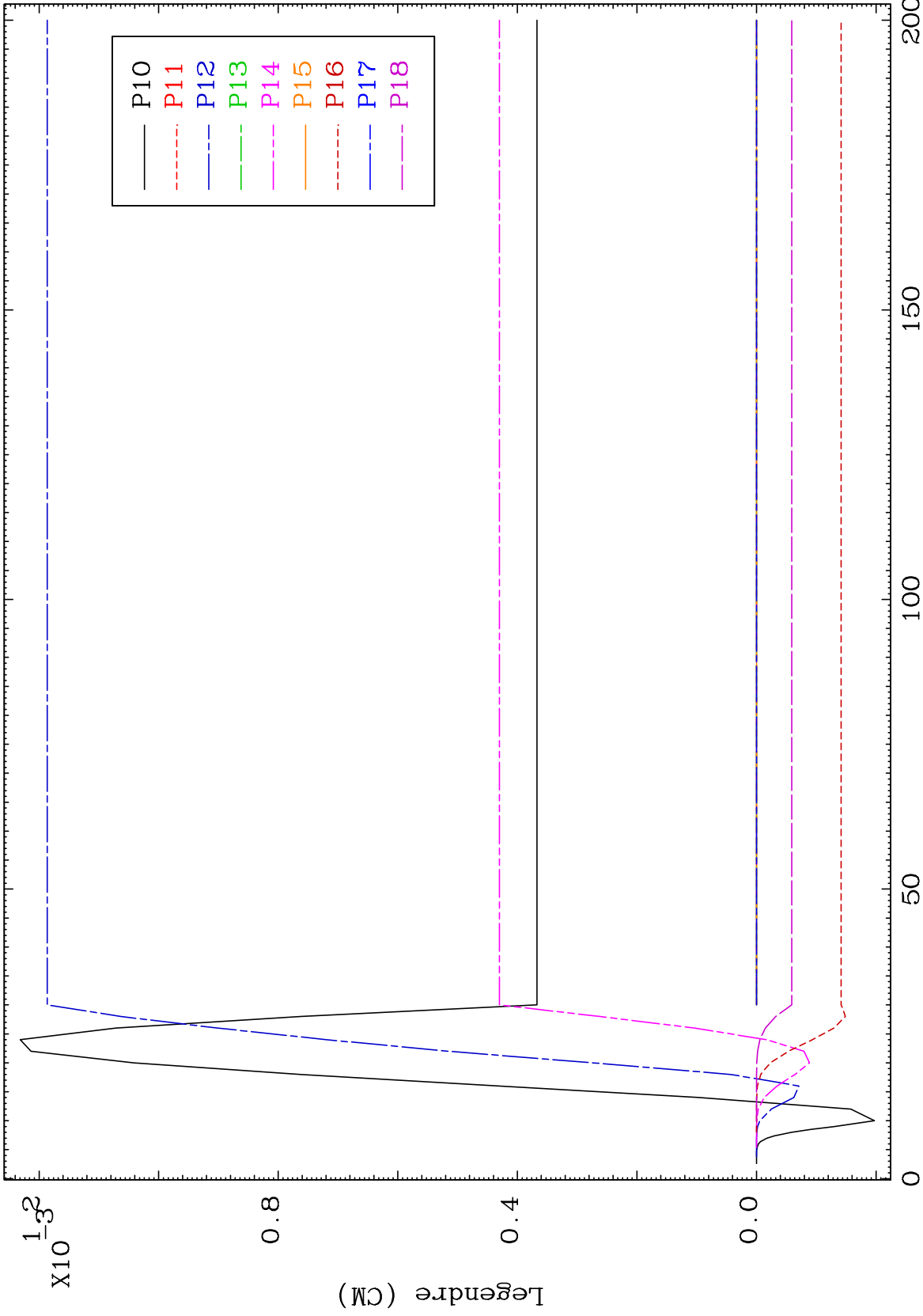


84 56-Ba-128

MAT 5619

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

56-Ba-128



85

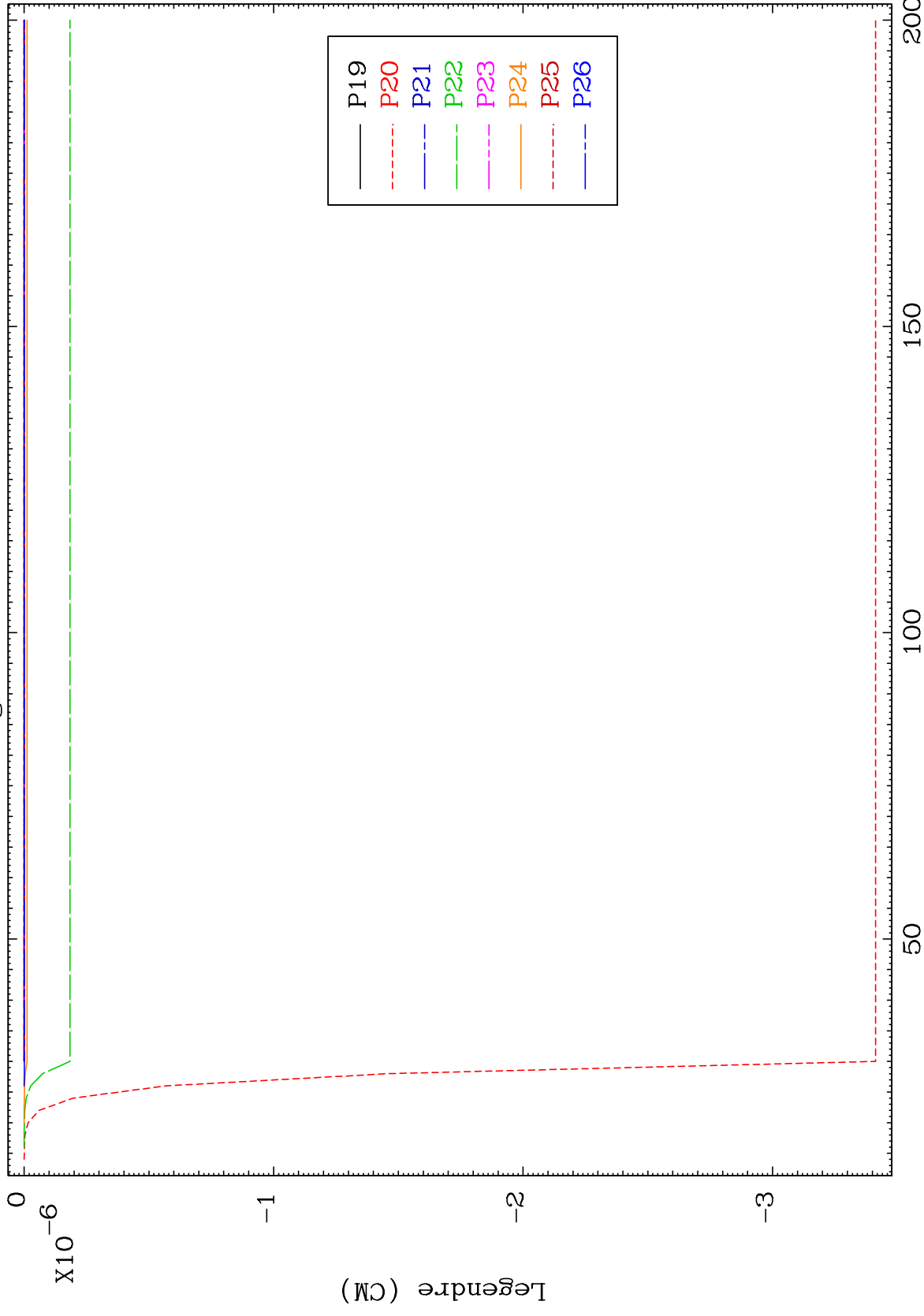
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



56-Ba-128

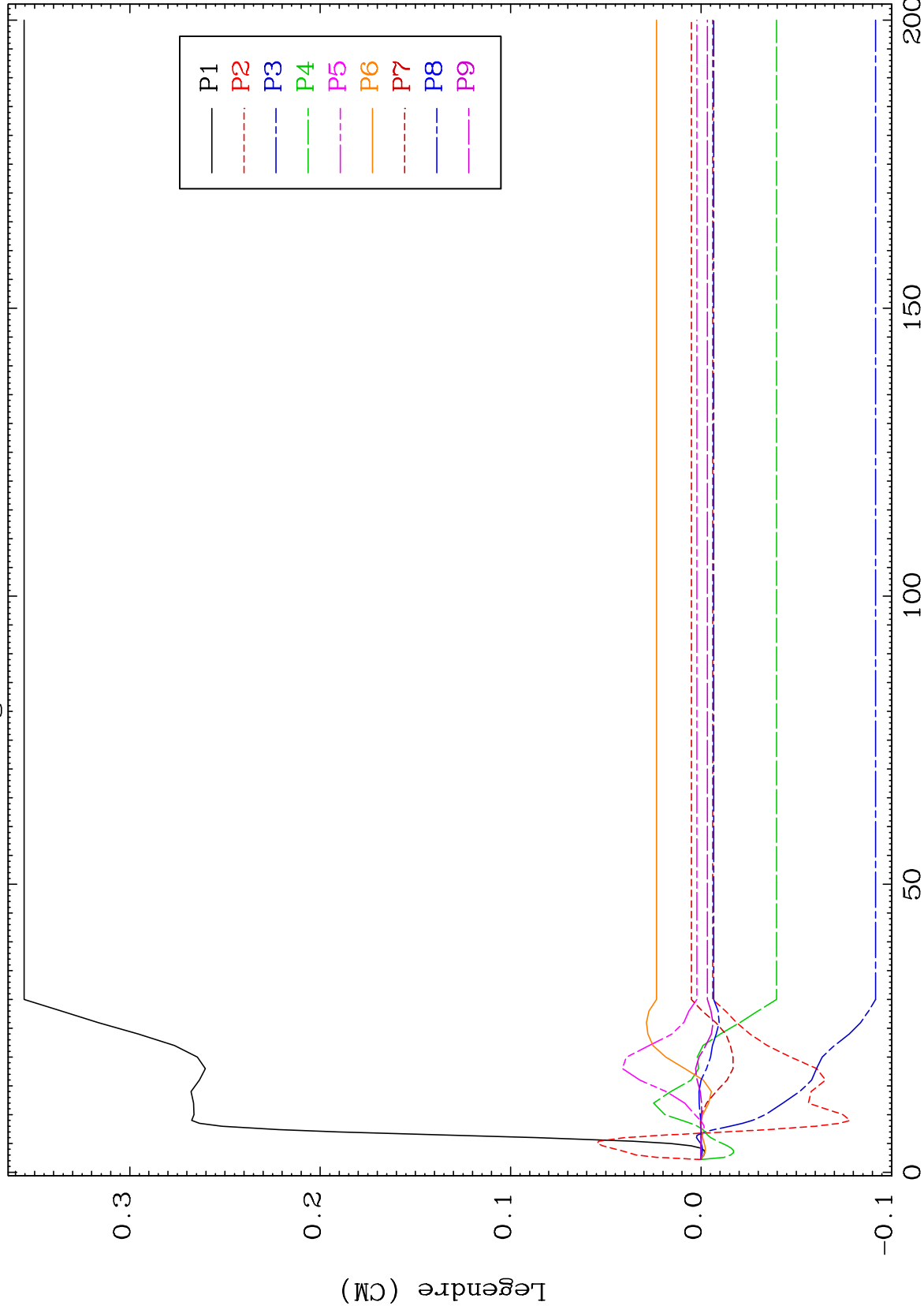
Incident Energy (MeV)

86

MAT 5619

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

56-Ba-128



87

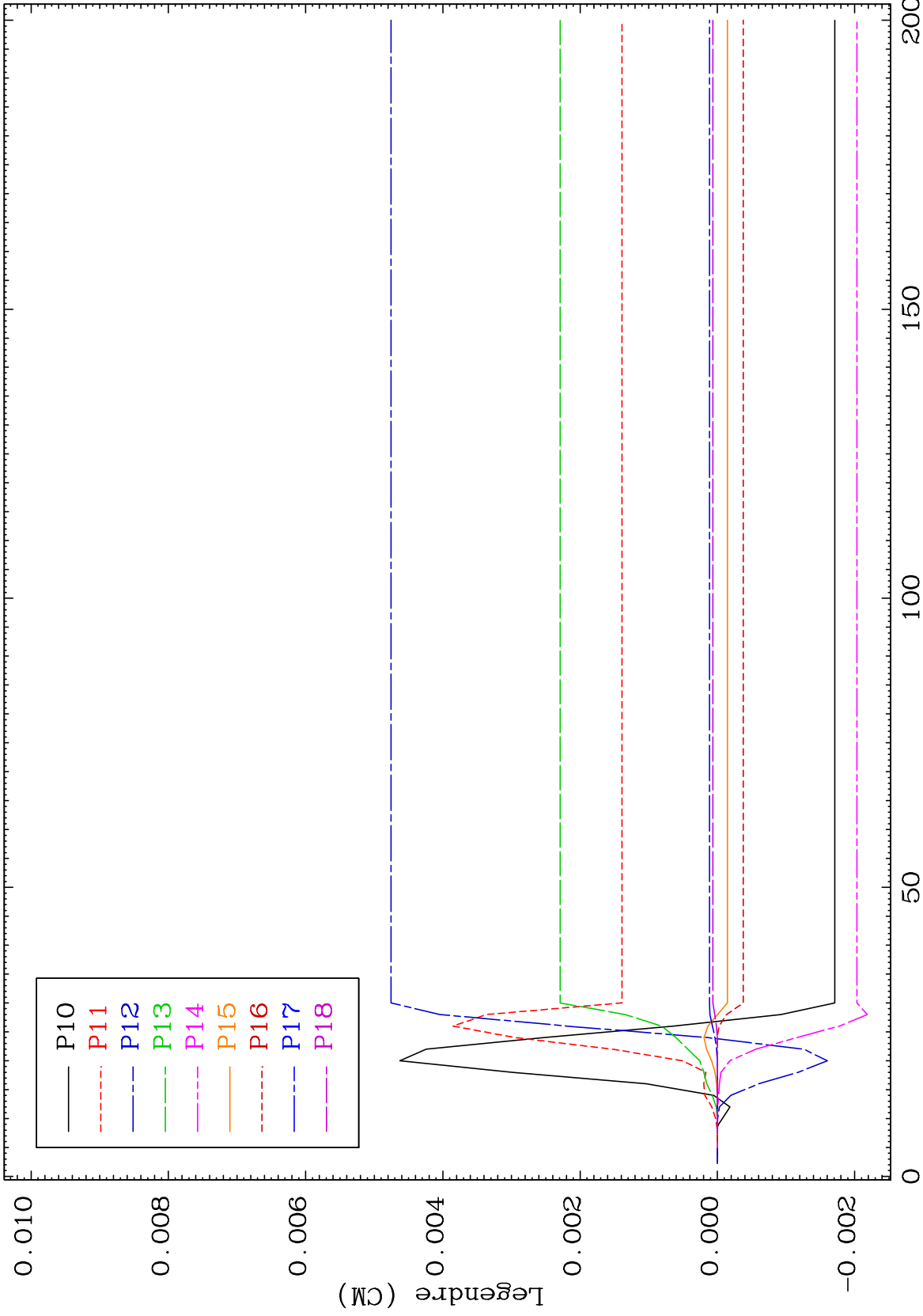
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



88

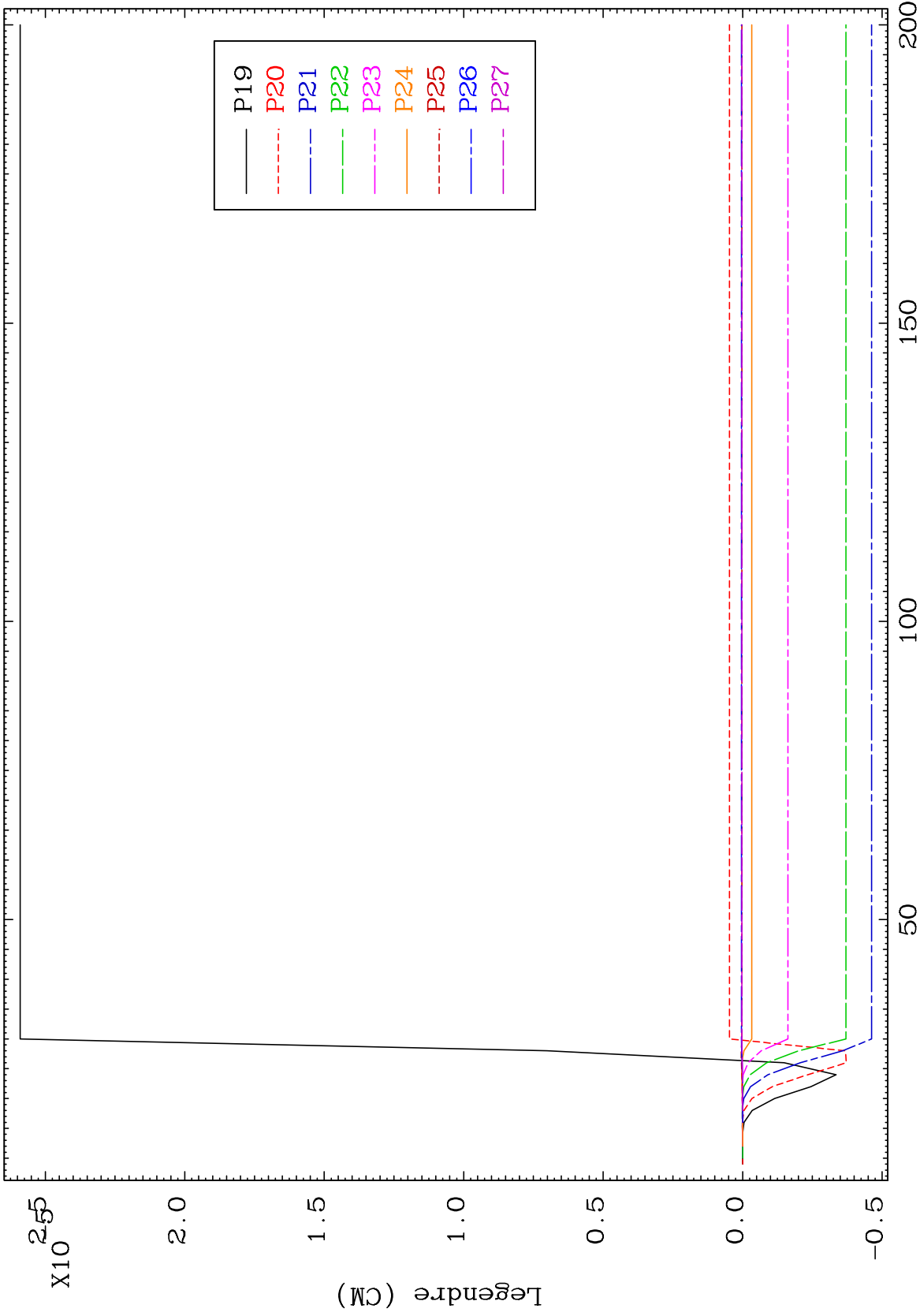
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



89

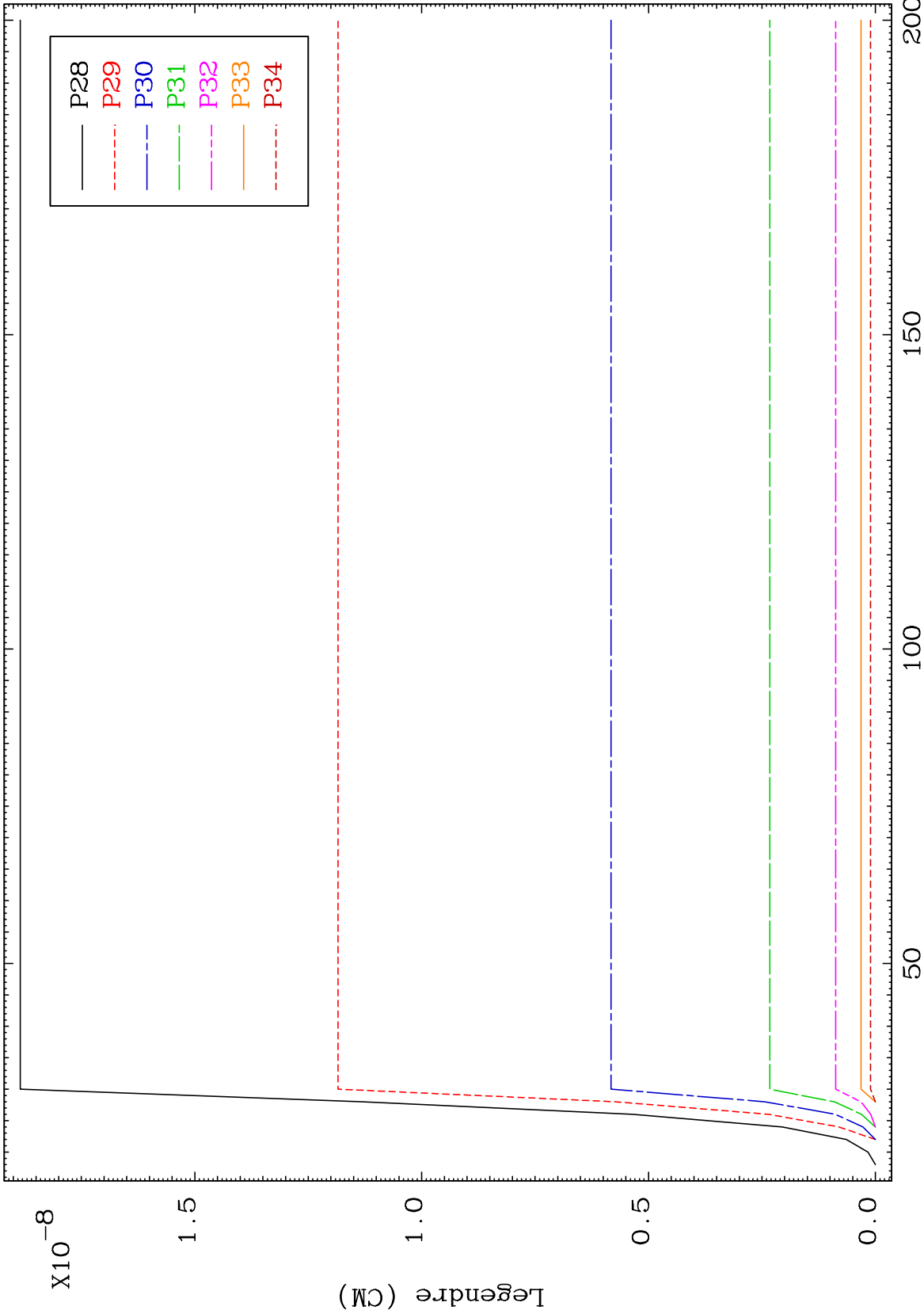
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



90

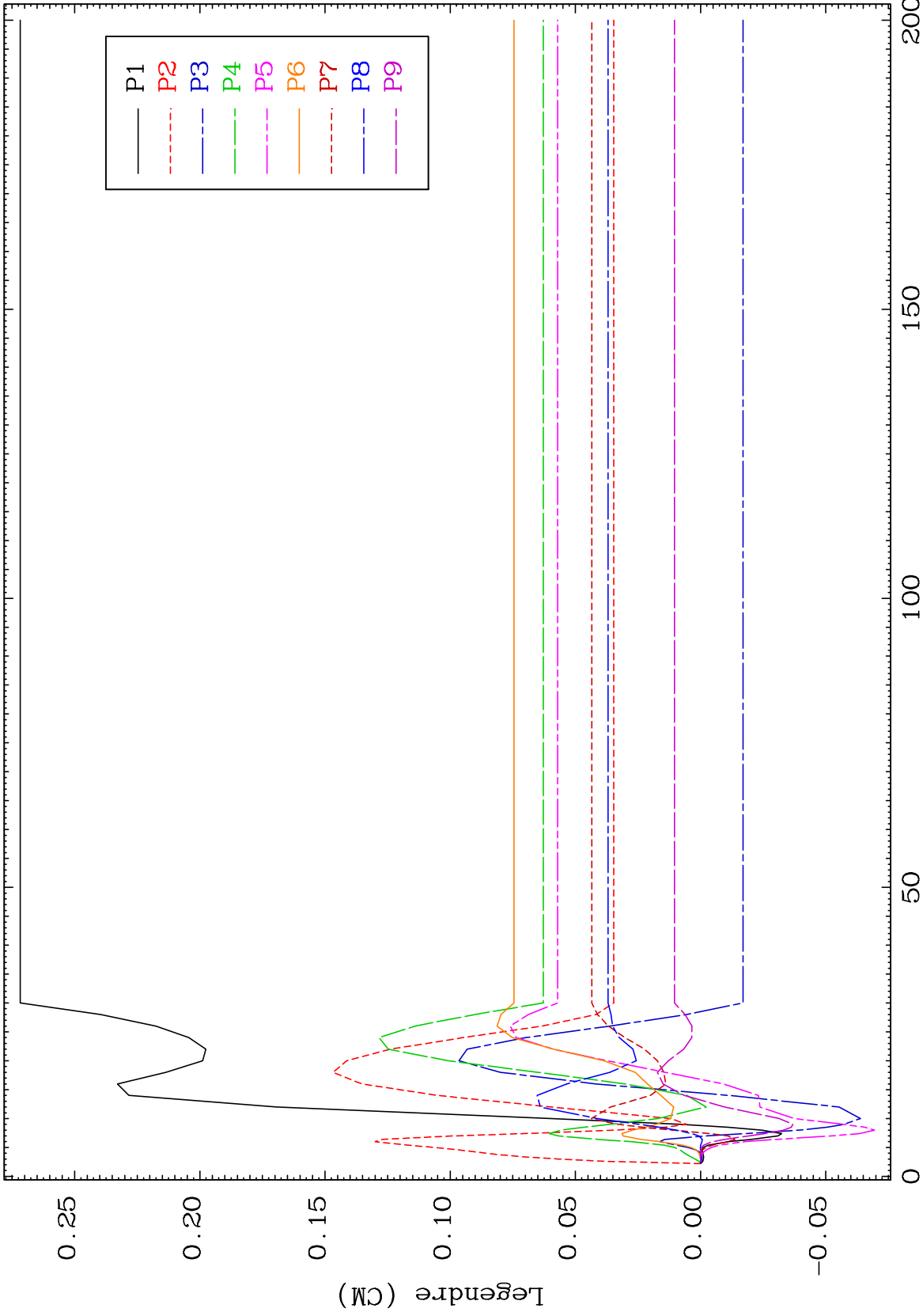
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



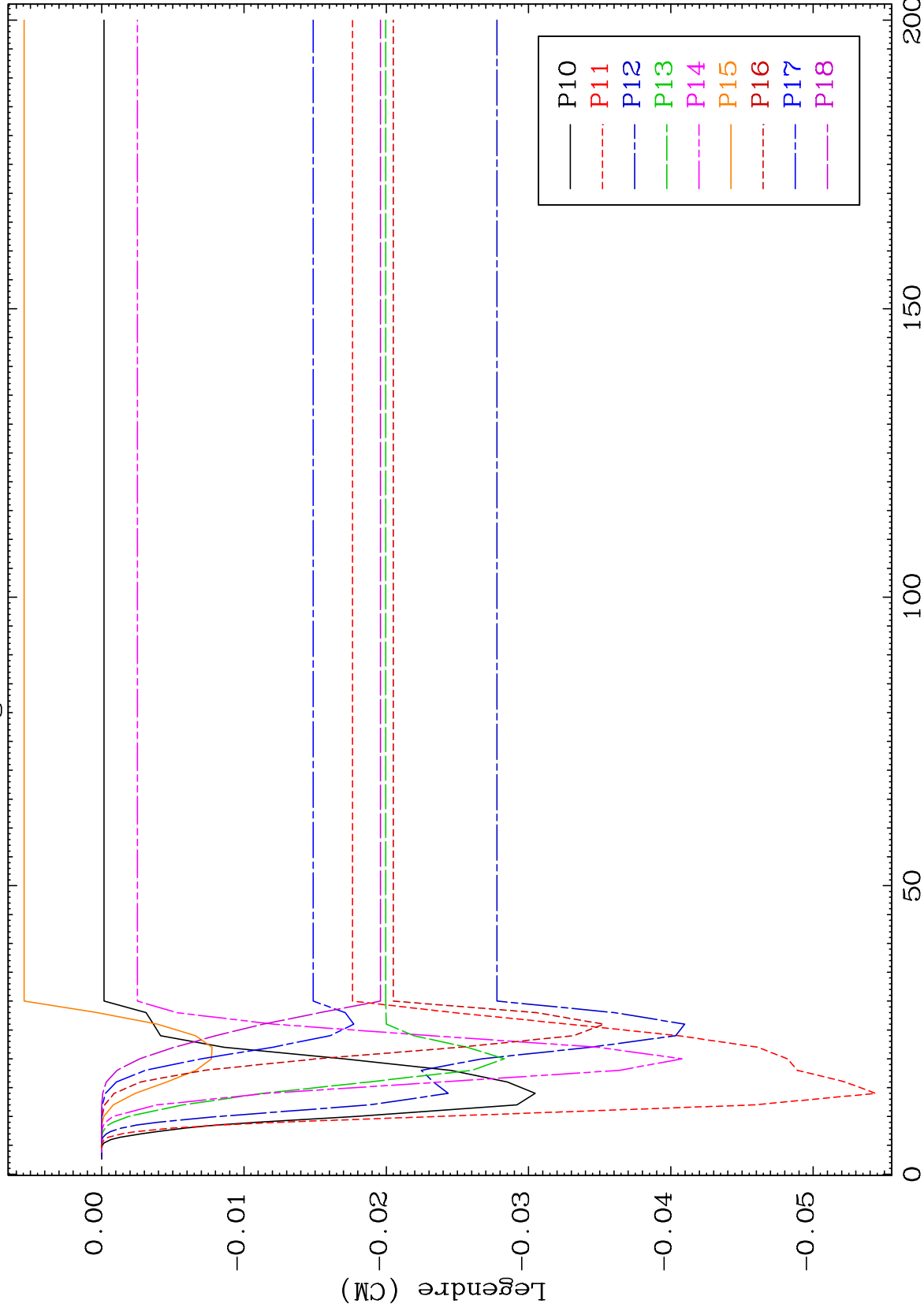
91

56-Ba-128

MAT 5619

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

56-Ba-128

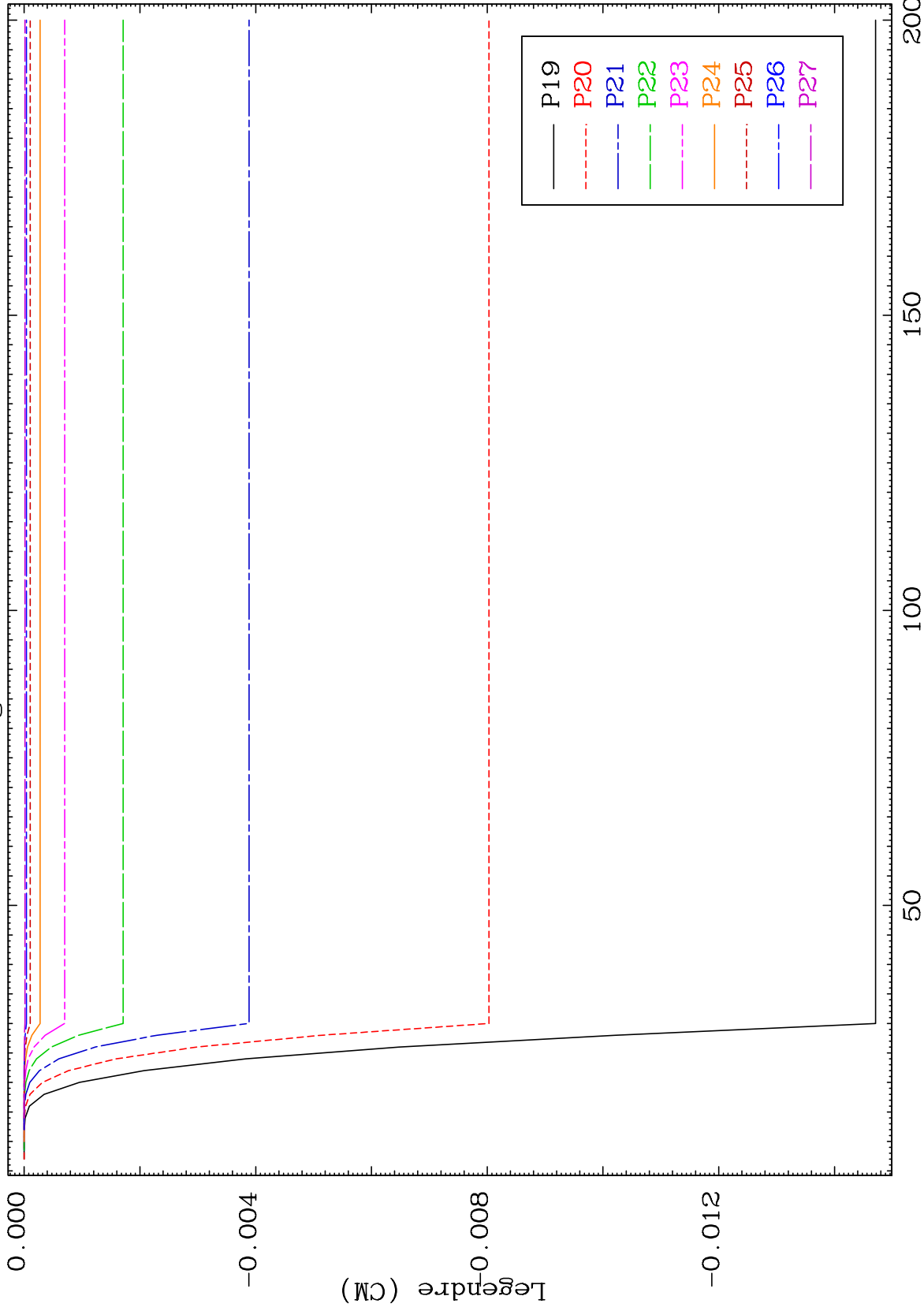


92

Incident Energy (MeV)

56-Ba-128

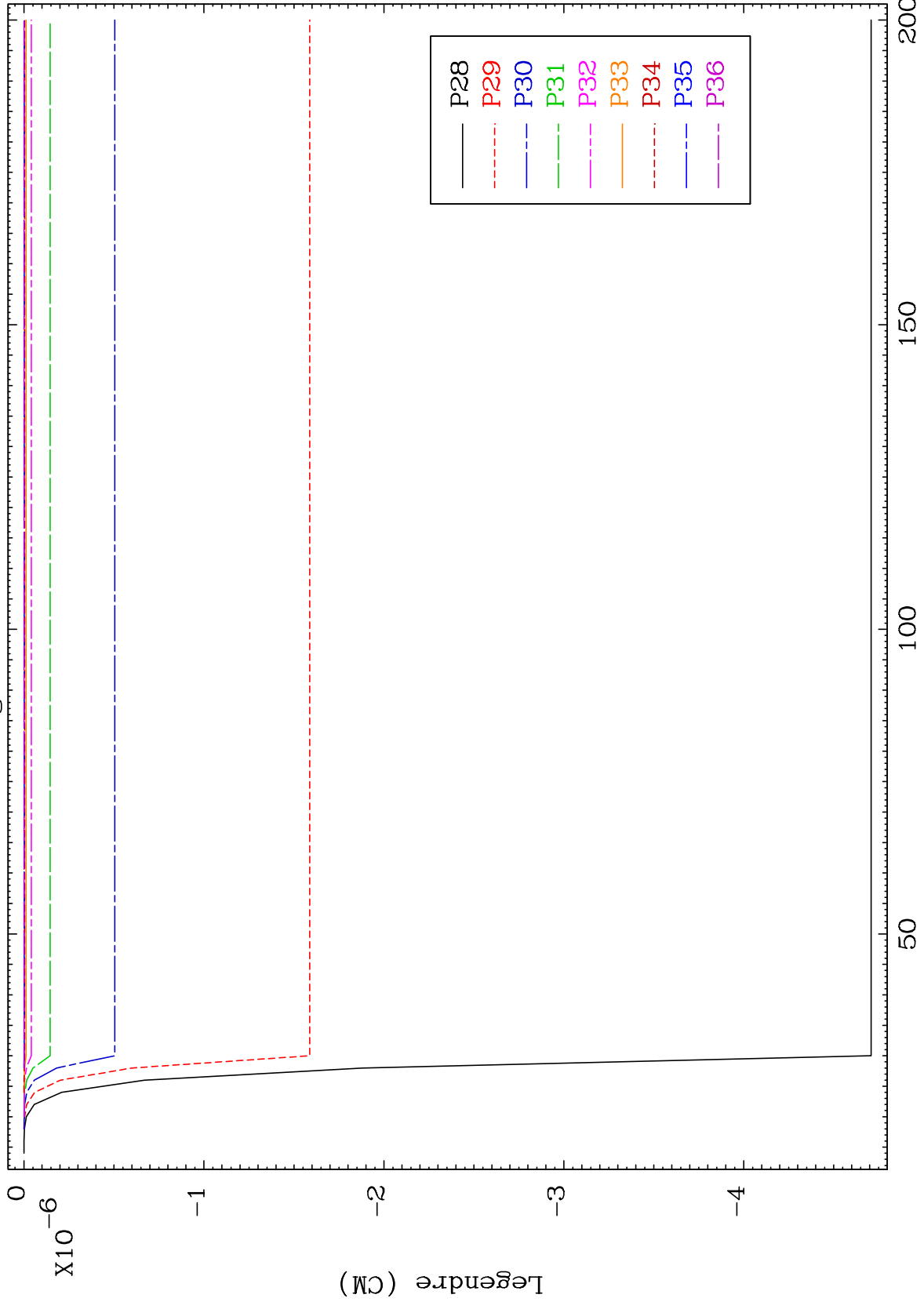
MAT 5619 MT= 70 (n,n') Level Legendre Coefficients 56-Ba-128



MAT 5619

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

56-Ba-128



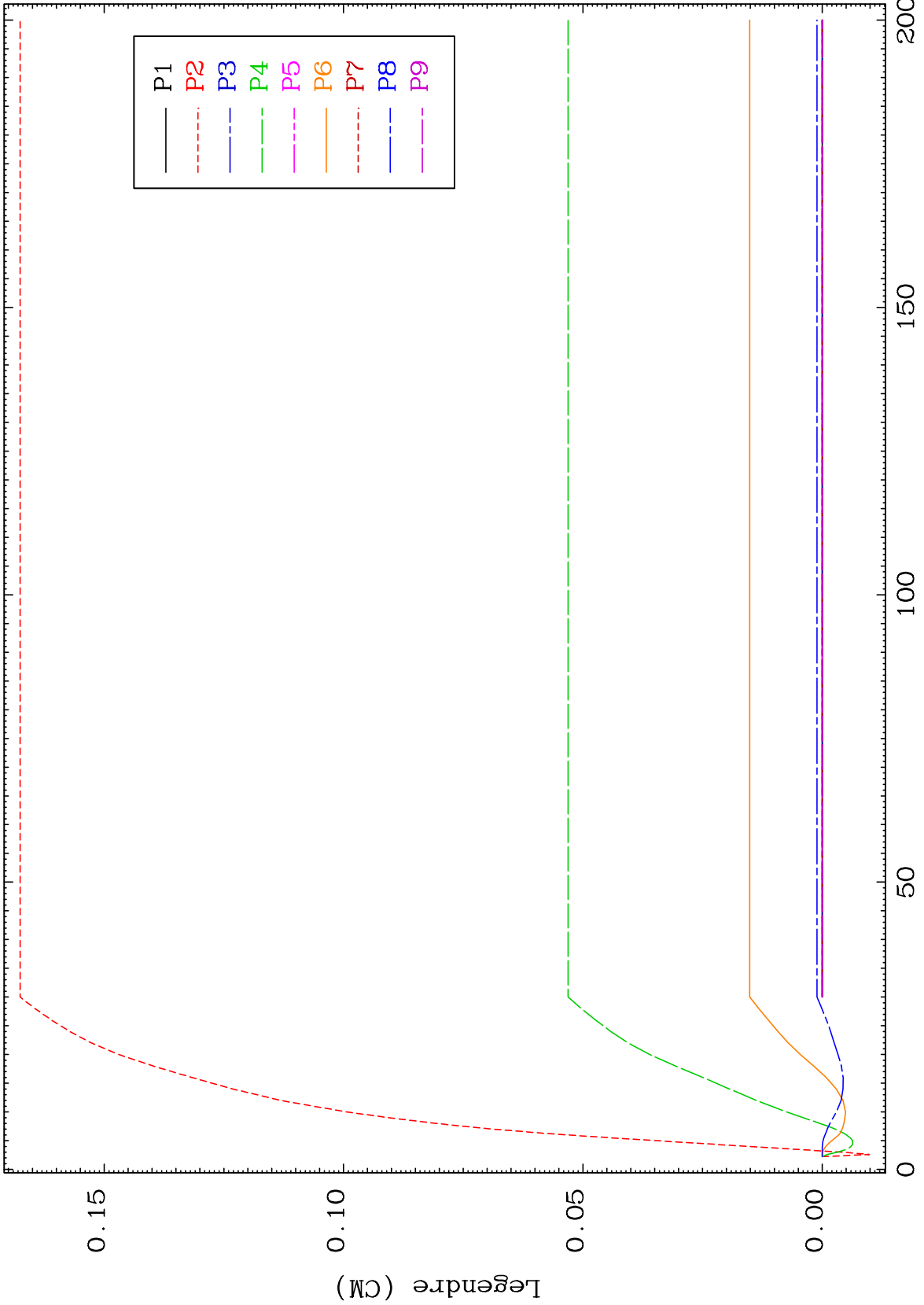
94

56-Ba-128

MAT 5619

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

56-Ba-128



95

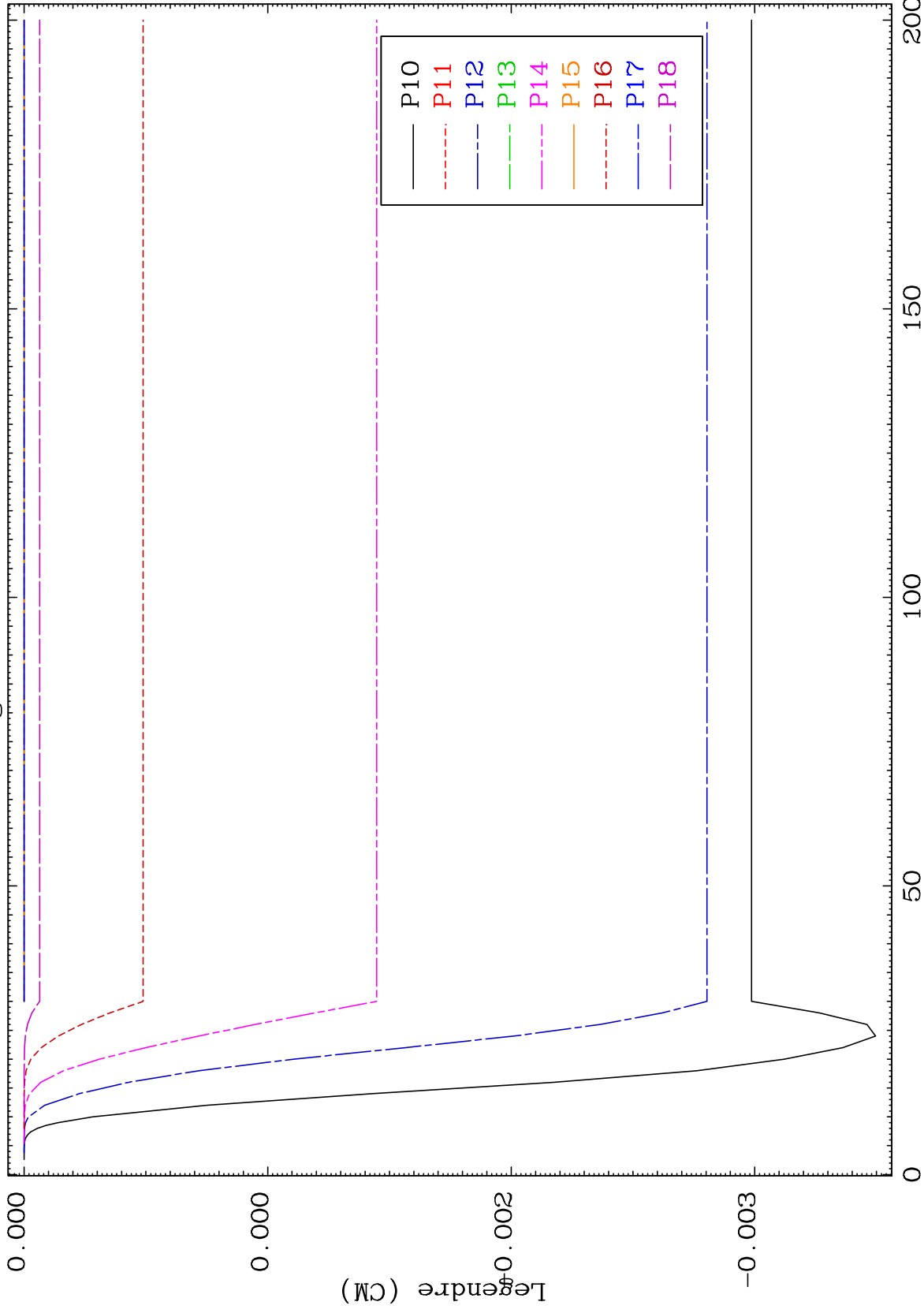
Incident Energy (MeV)

56-Ba-128

56-Ba-128

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

MAT 5619



56-Ba-128

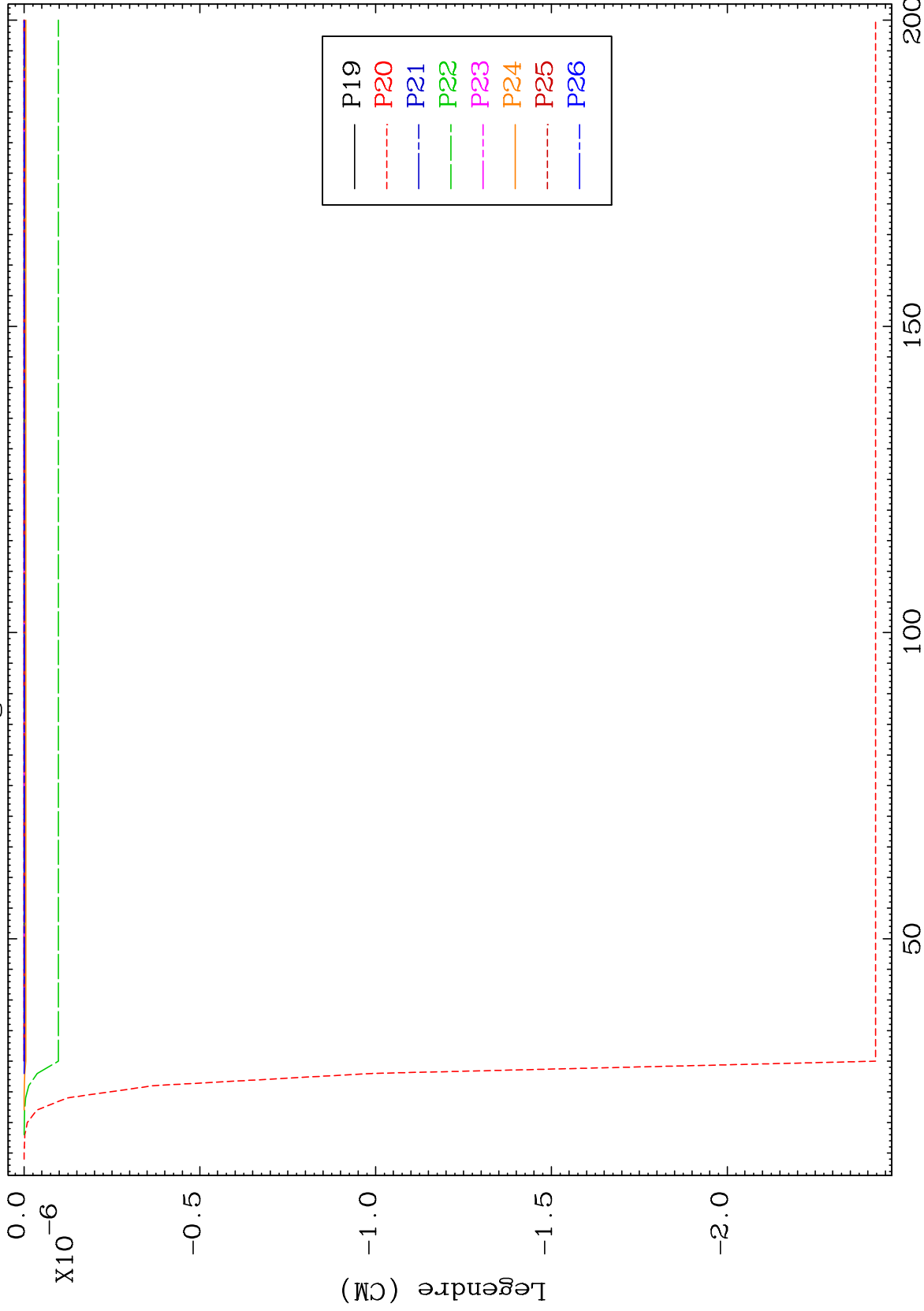
Incident Energy (MeV)

96

MAT 5619

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

56-Ba-128

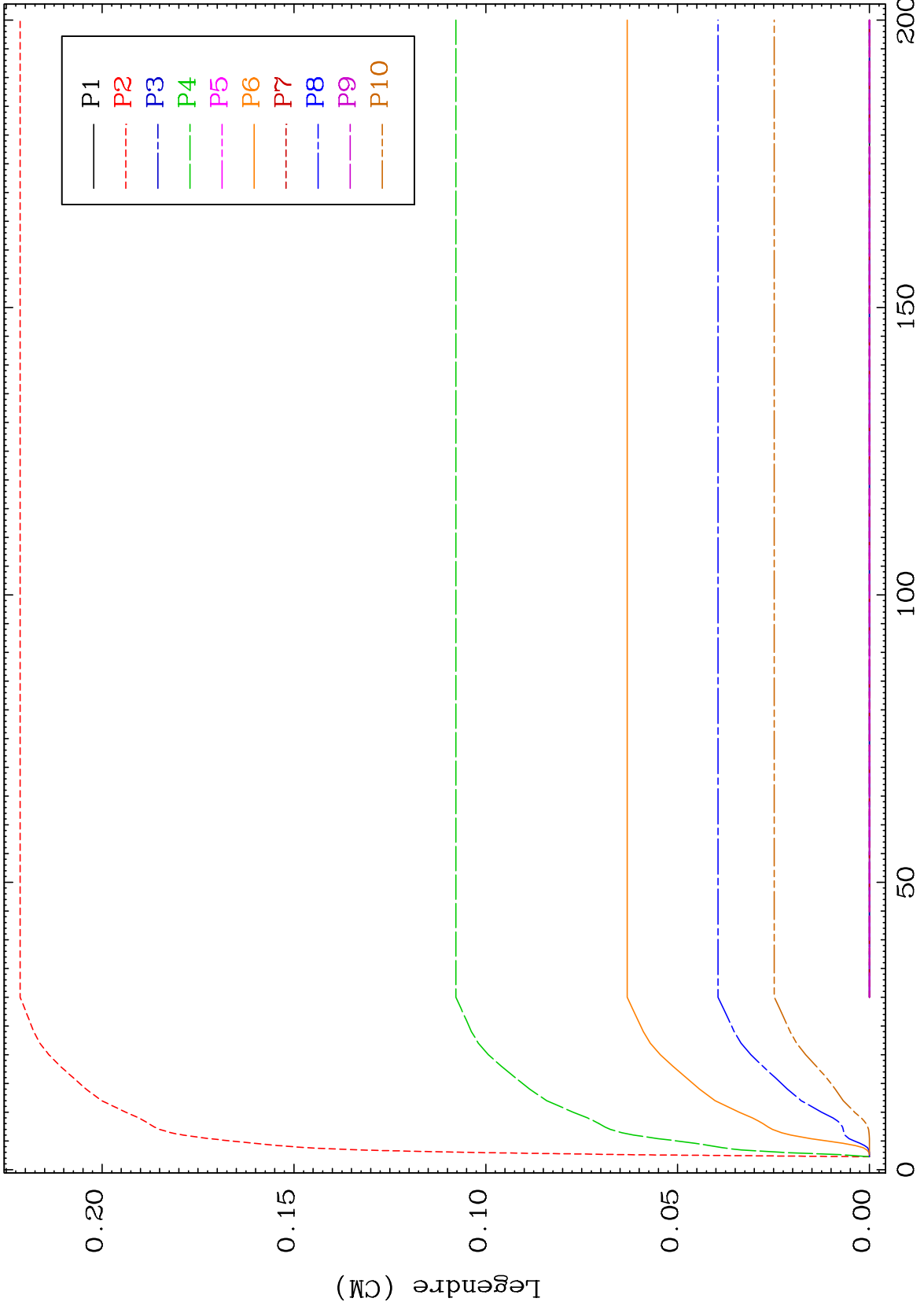


97

Incident Energy (MeV)

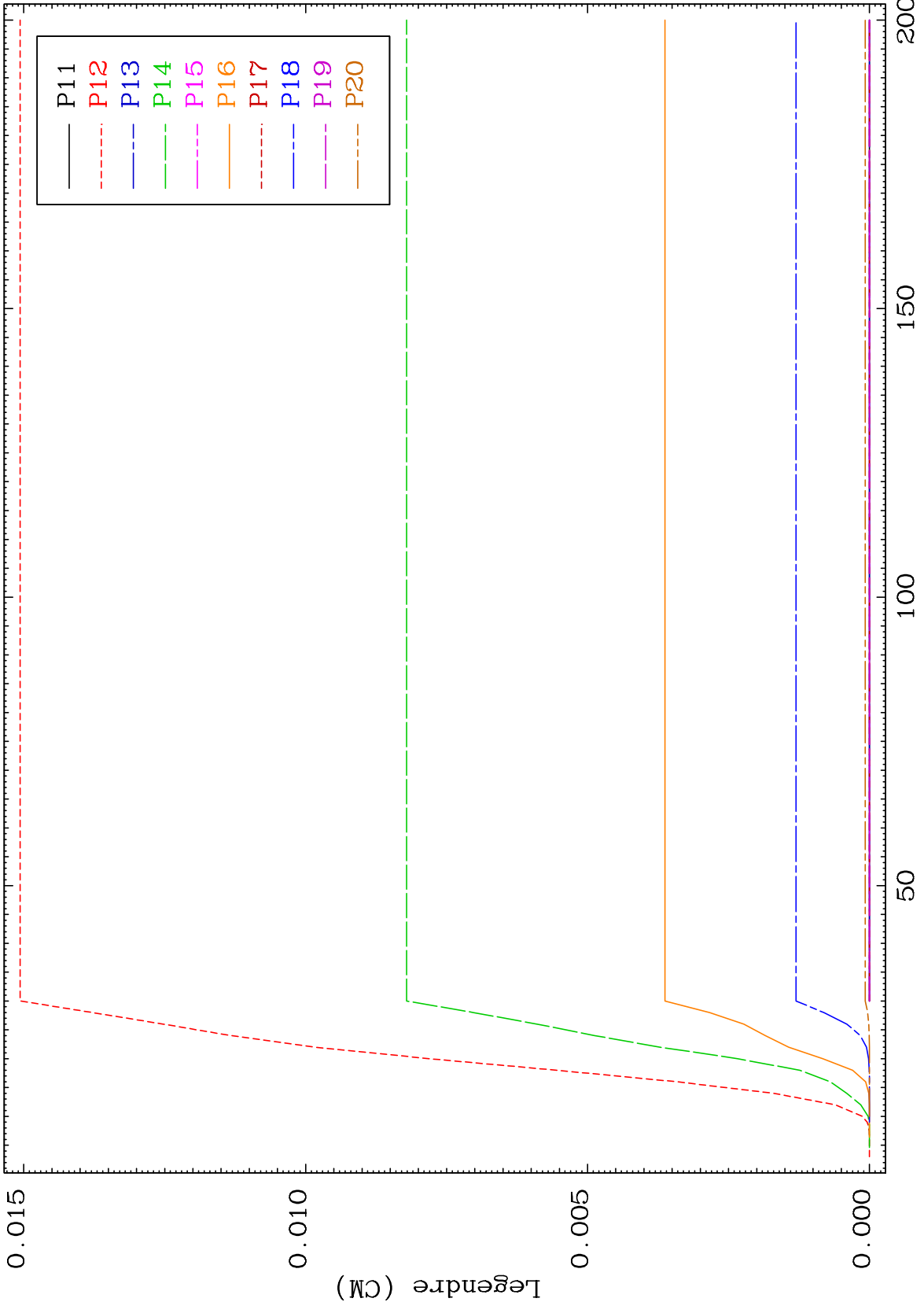
56-Ba-128

MAT 5619 MT= 72 (n,n') Level Legendre Coefficients 56-Ba-128



98 56-Ba-128

MAT 5619 MT= 72 (n,n') Level Legendre Coefficients 56-Ba-128

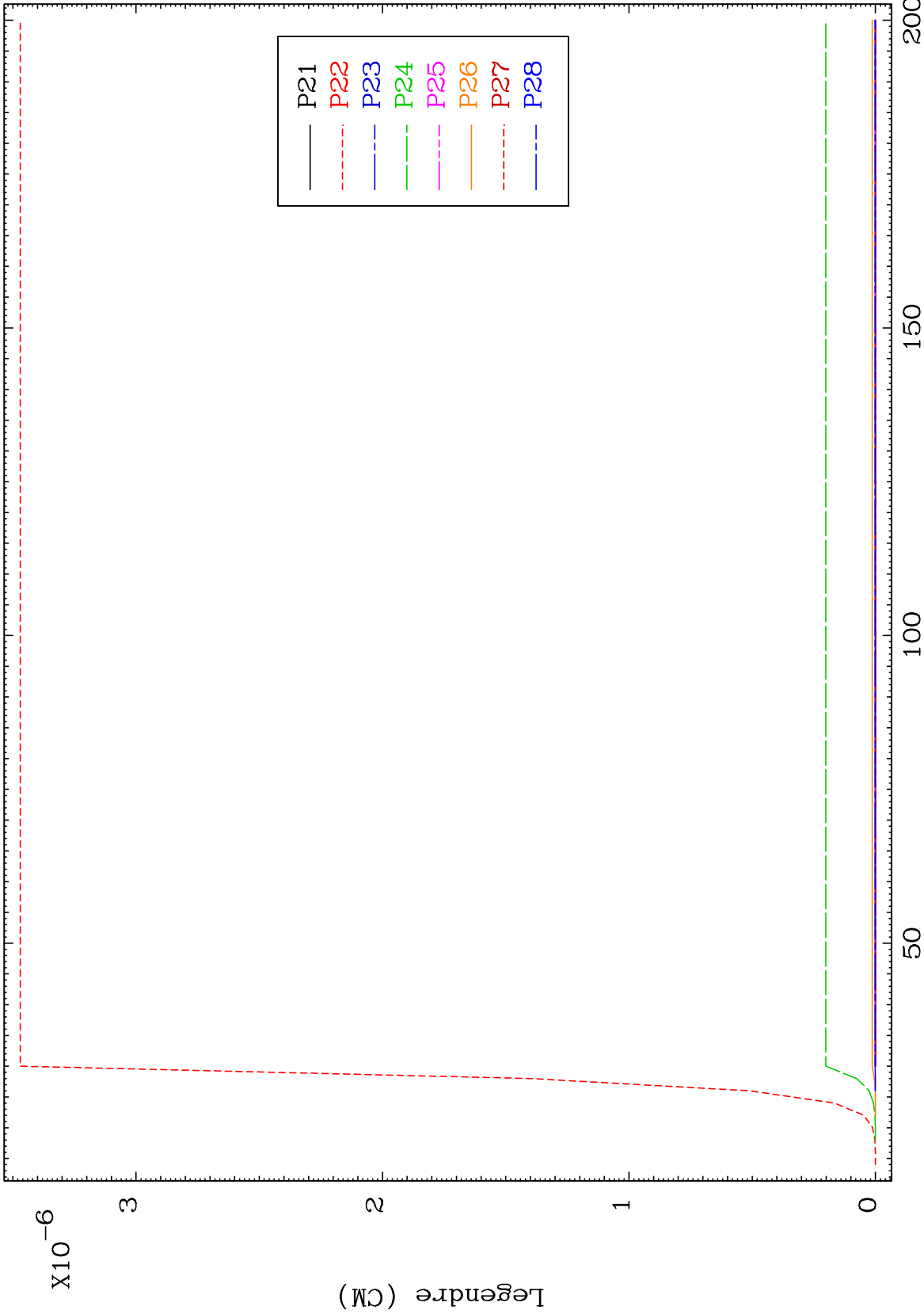


99 56-Ba-128

MAT 5619

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

56-Ba-128



100

50

100

150

200

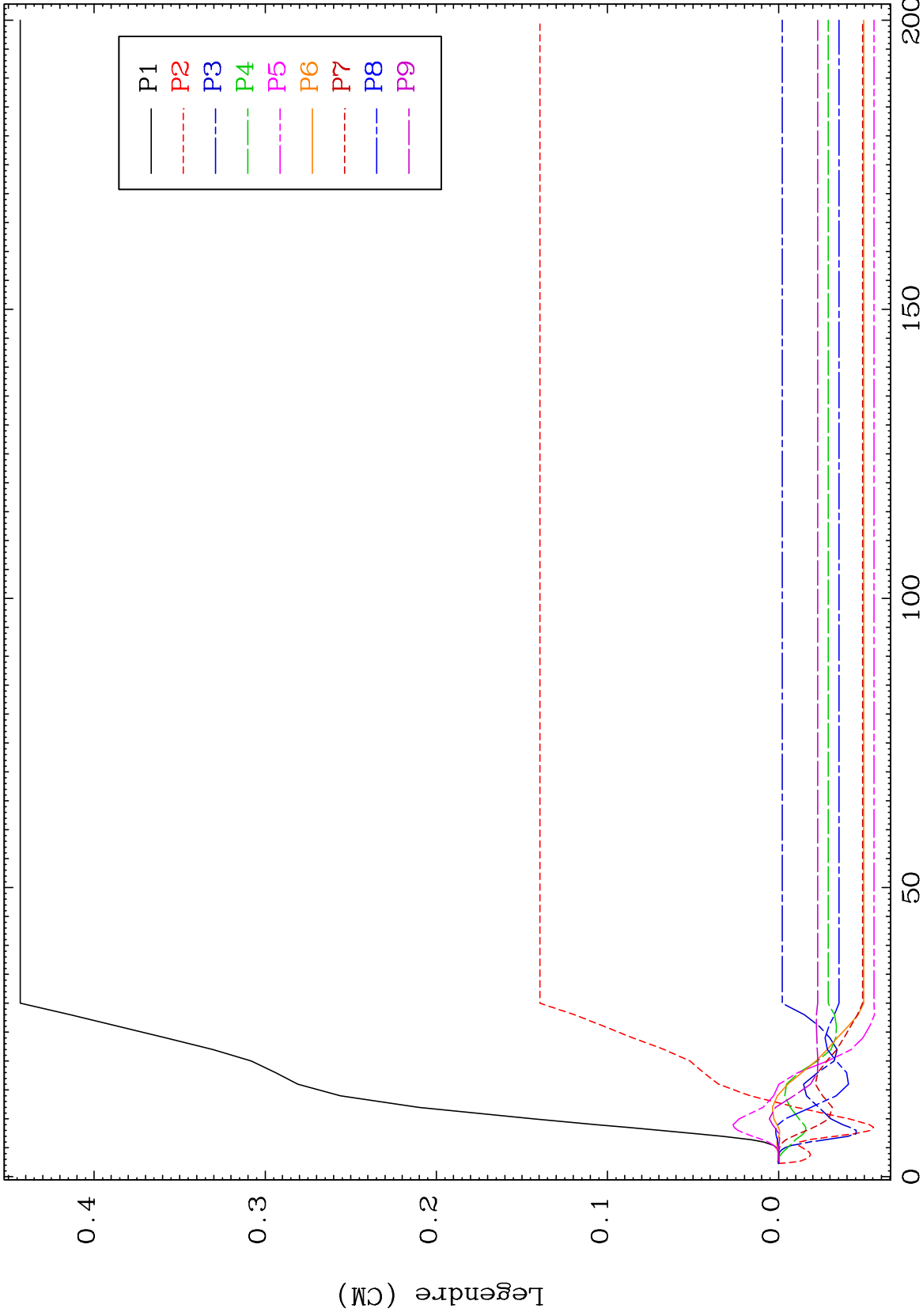
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



101

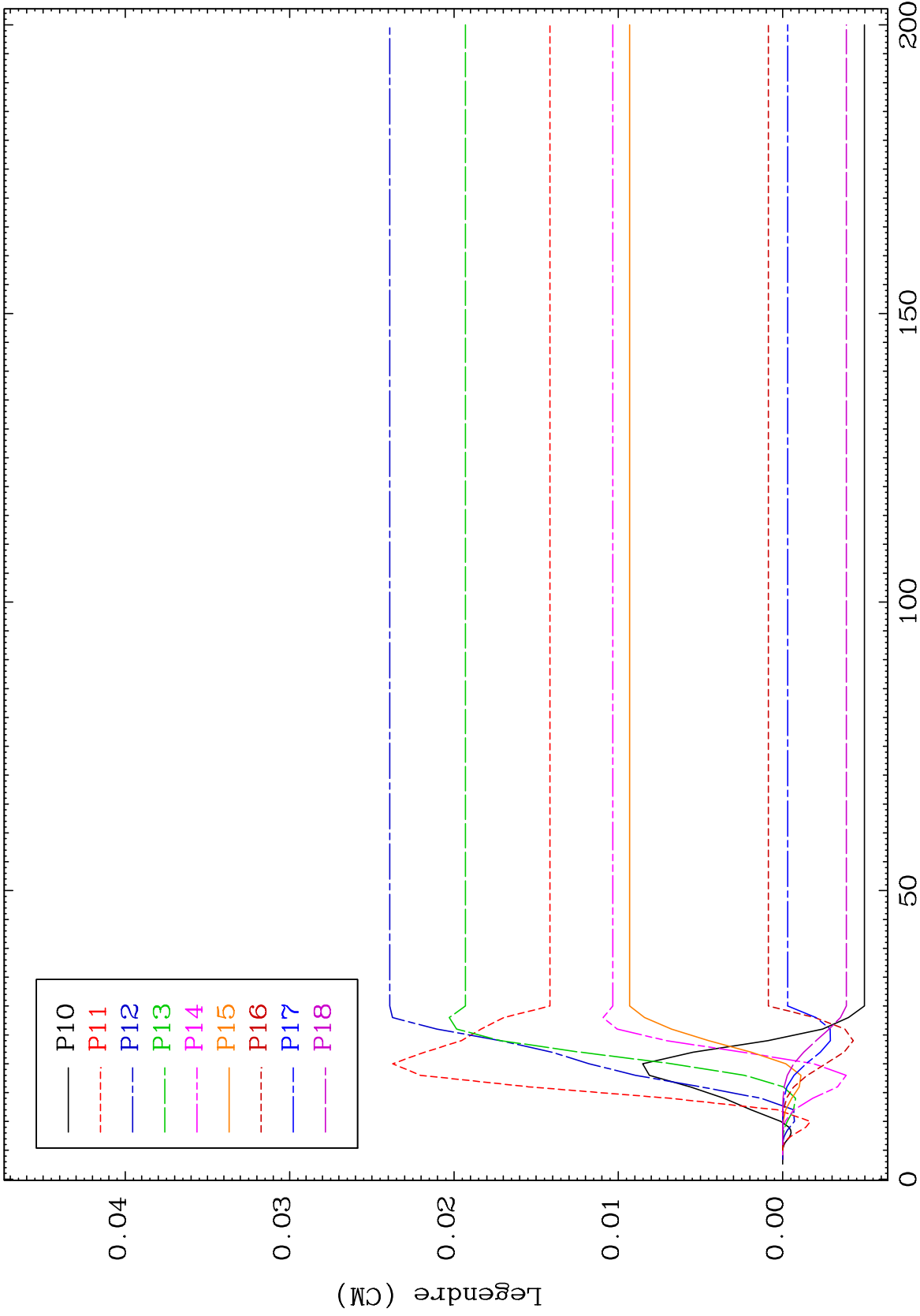
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128

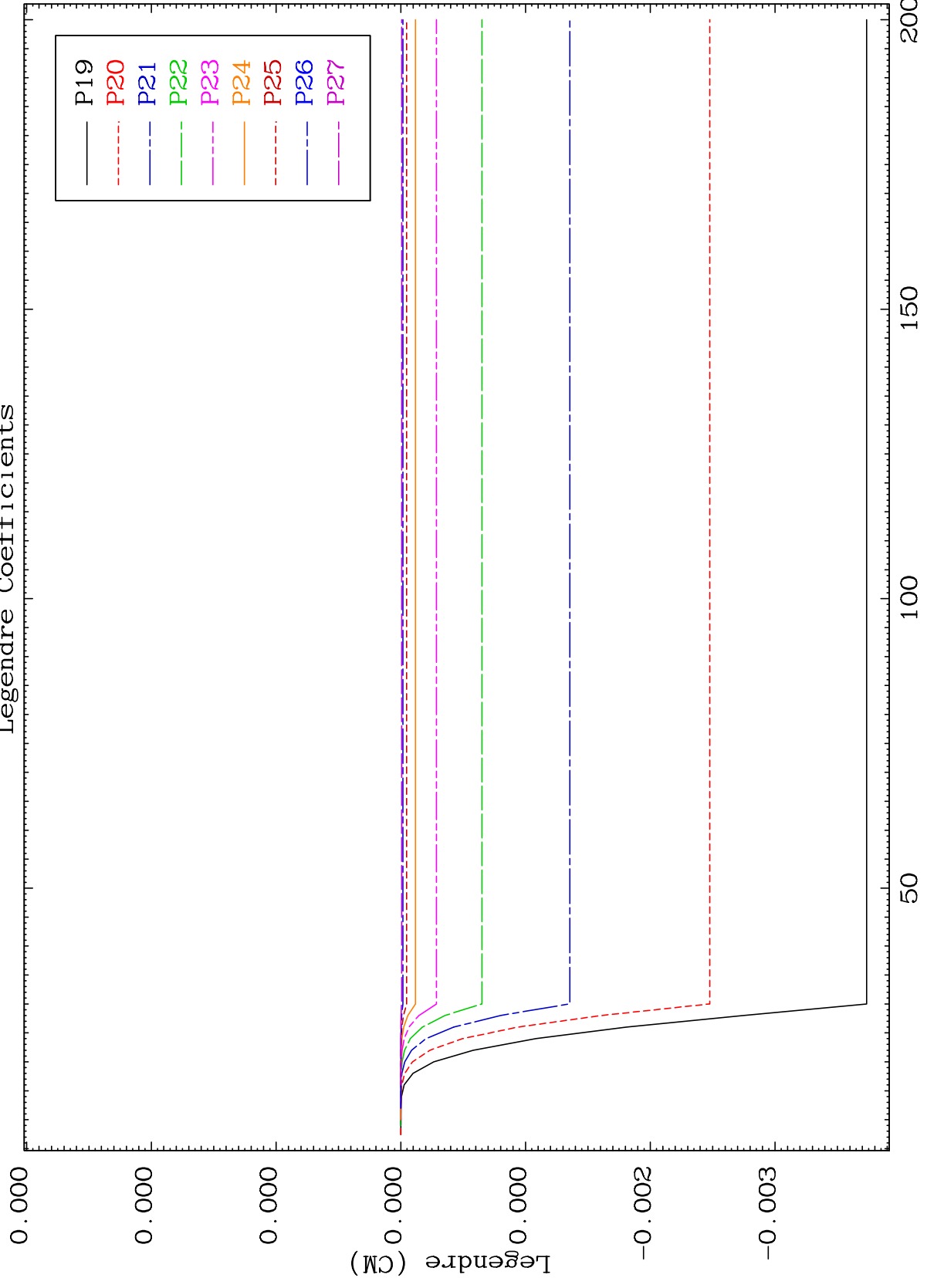


102

Incident Energy (MeV)

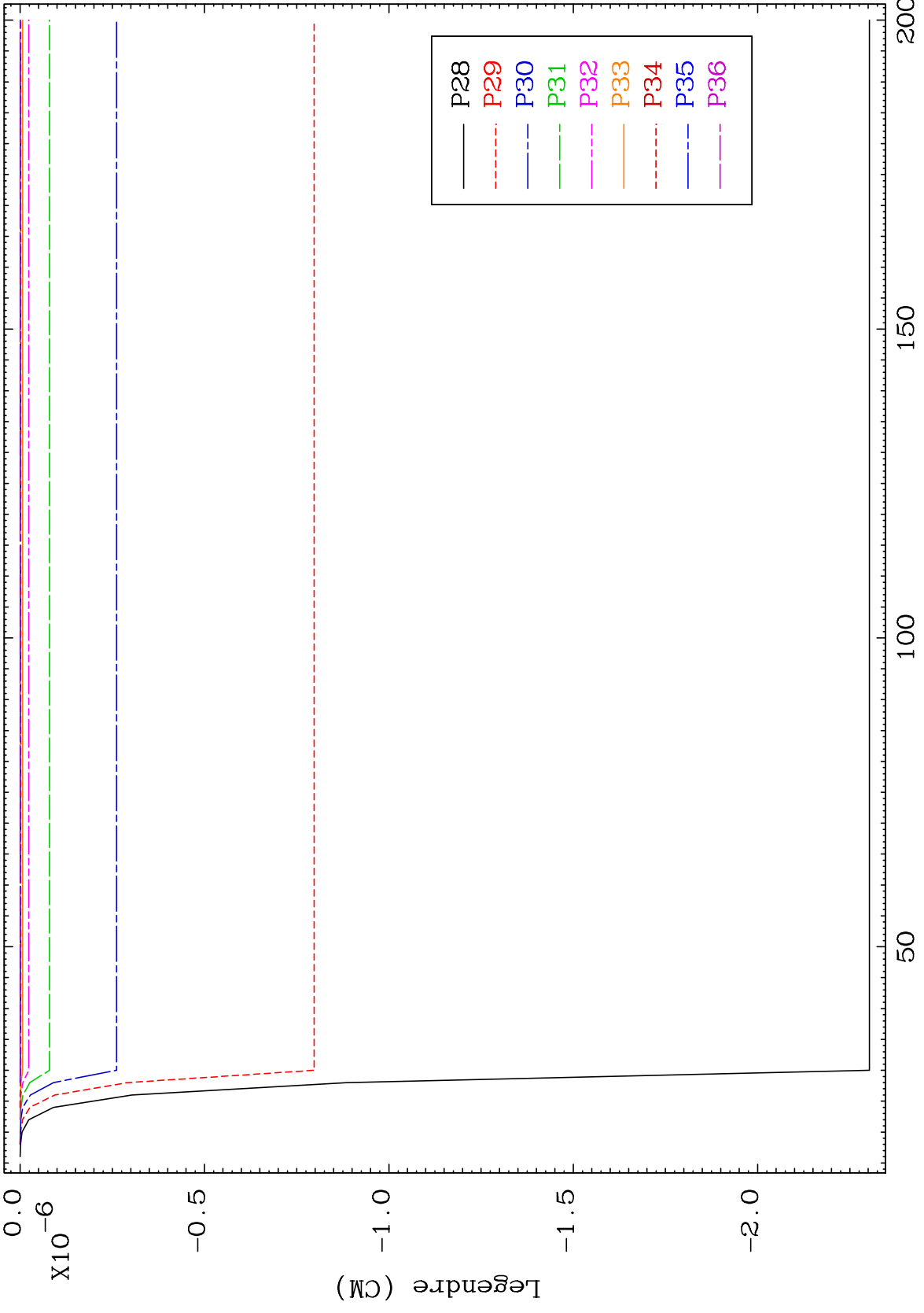
56-Ba-128

MAT 5619 MT= 73 (n,n') Level Legendre Coefficients 56-Ba-128



103 56-Ba-128

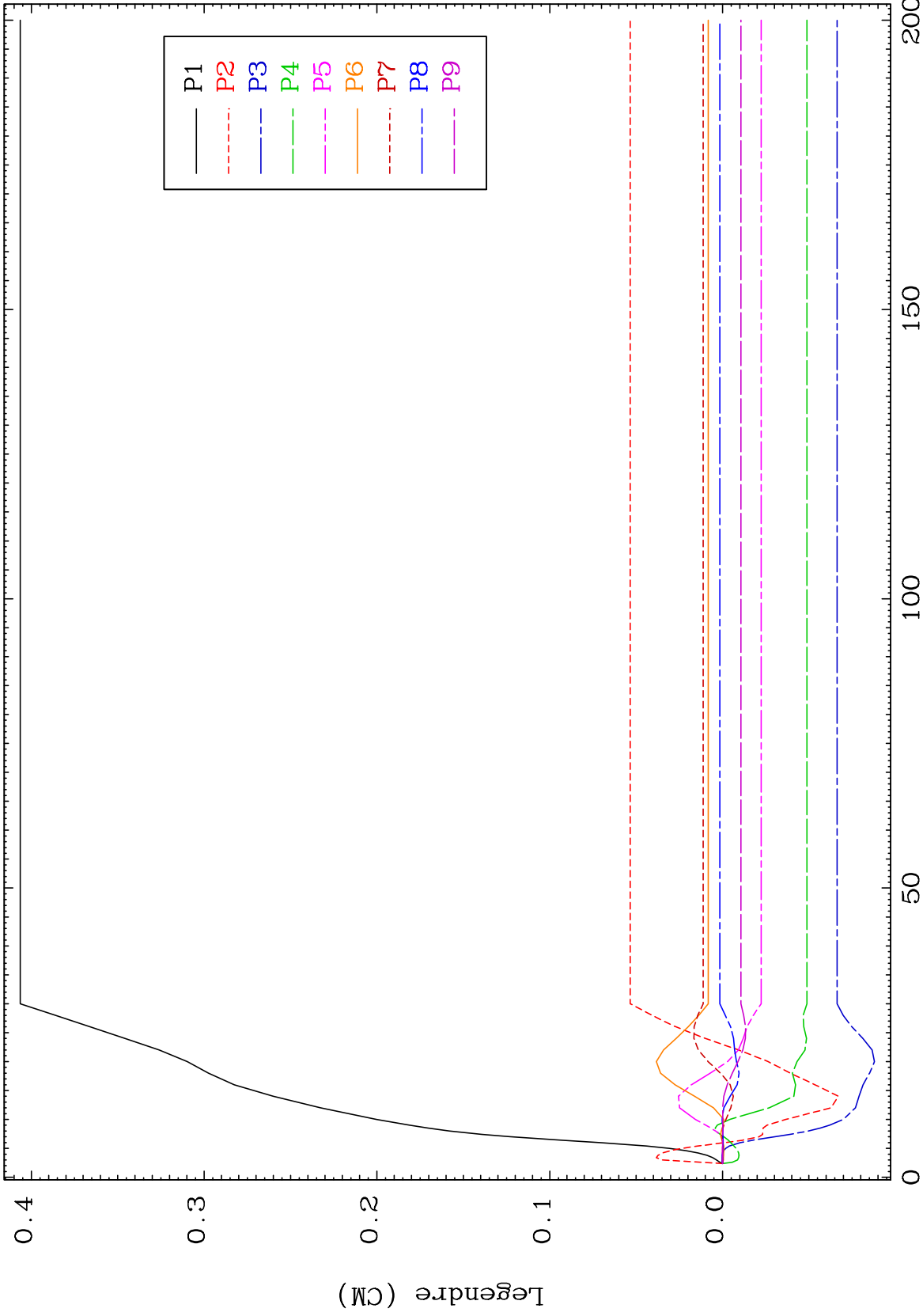
MAT 5619 MT= 73 (n,n') Level Legendre Coefficients 56-Ba-128



MAT 5619

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

56-Ba-128



105

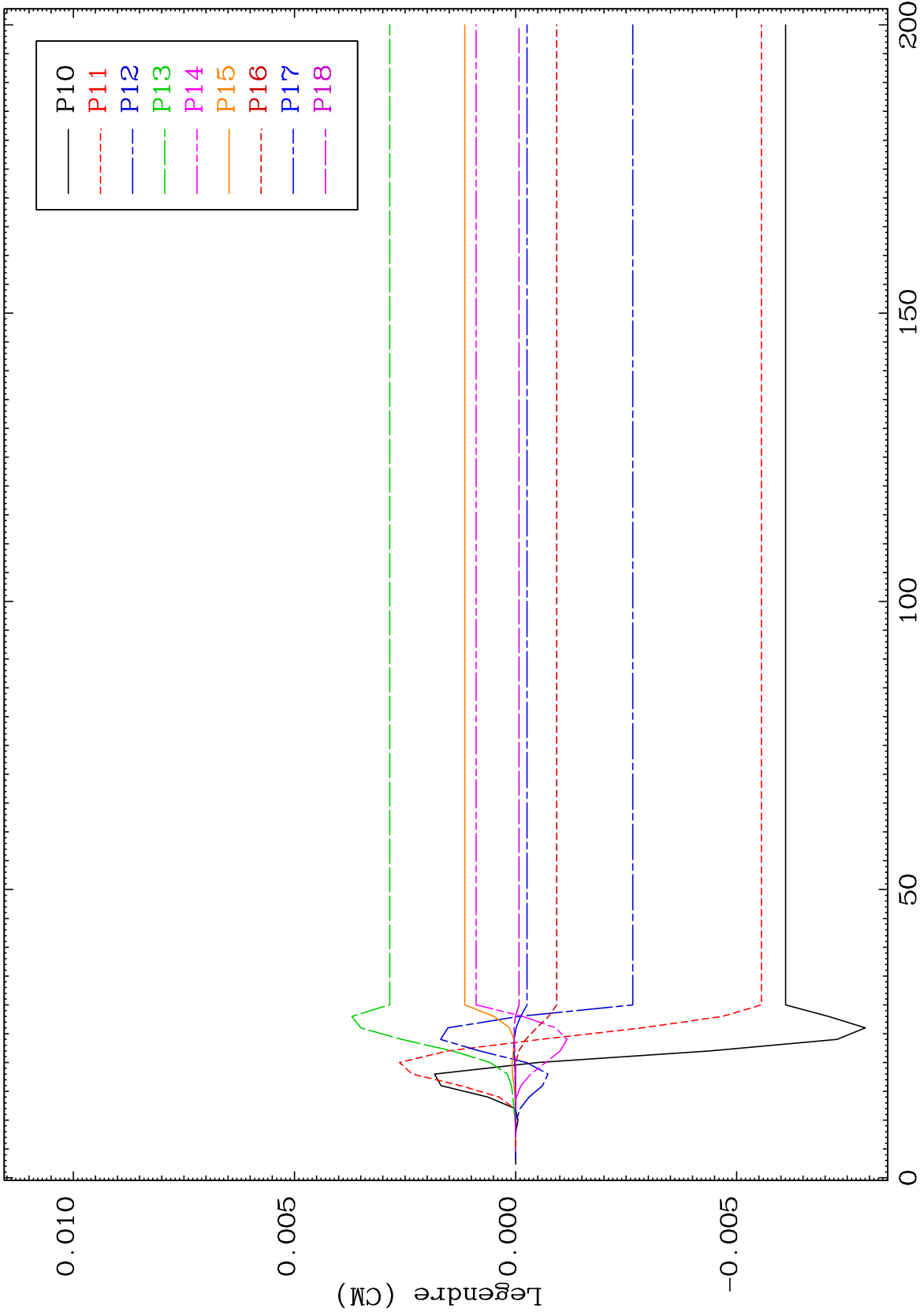
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



106

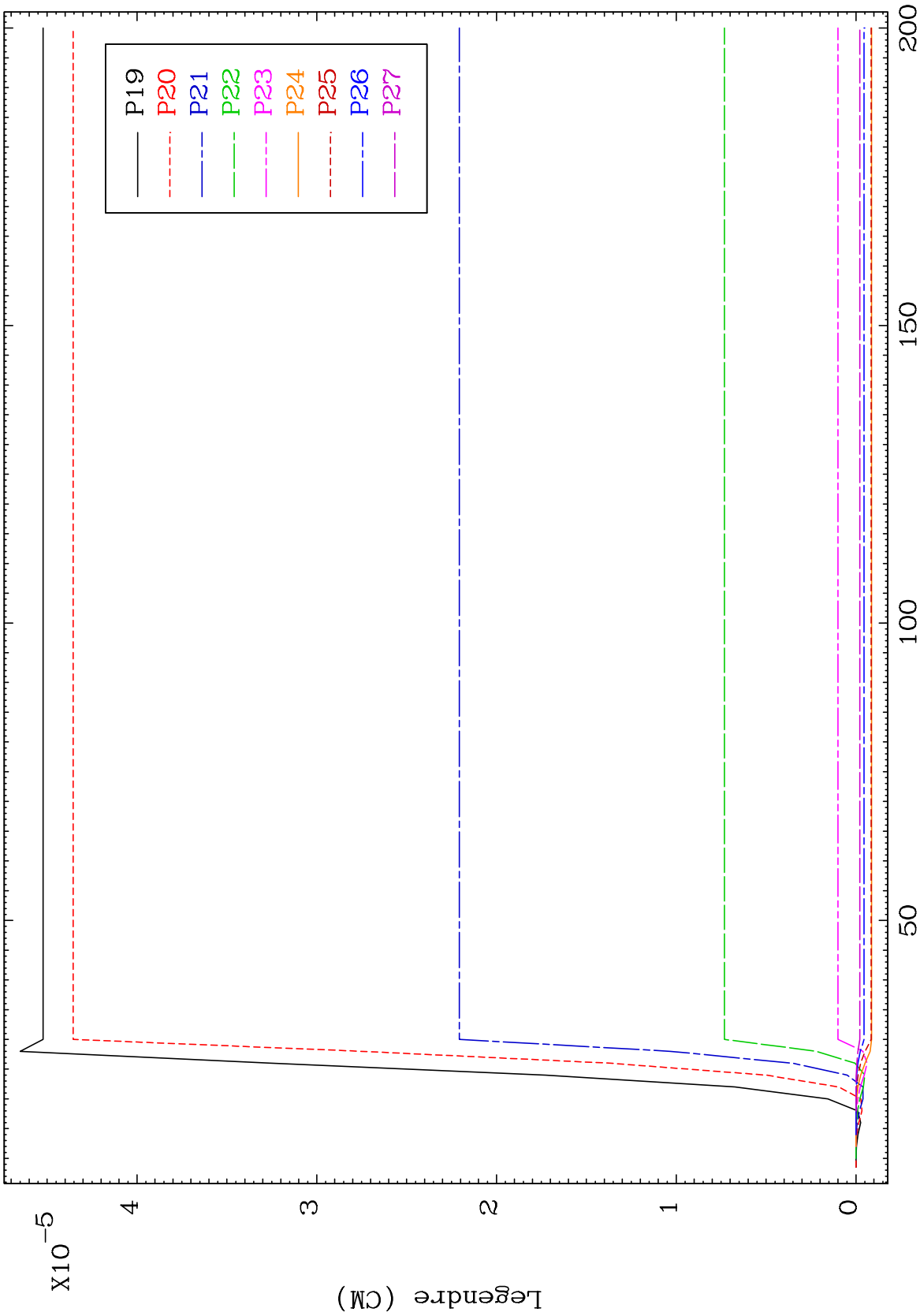
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



107

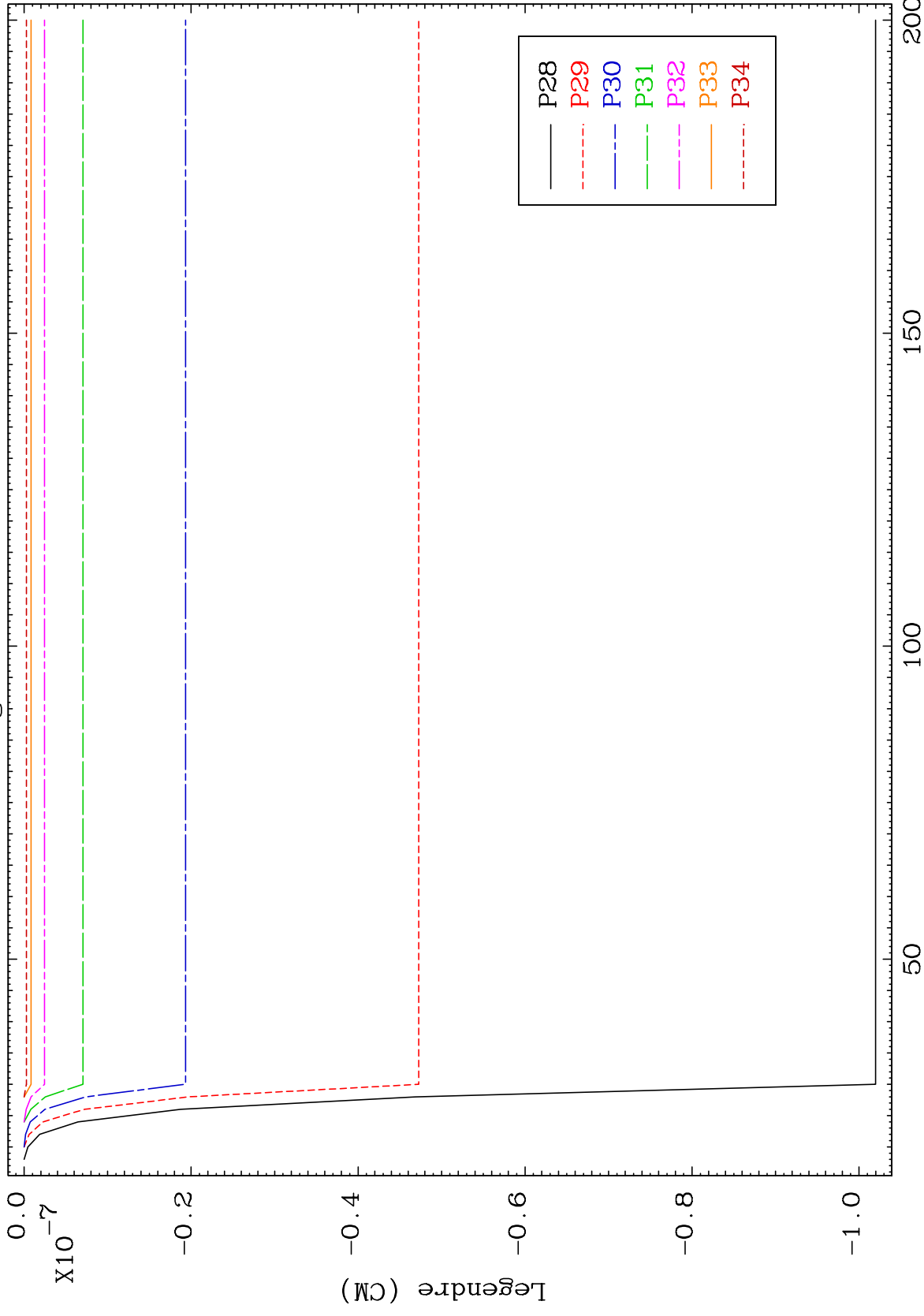
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



56-Ba-128

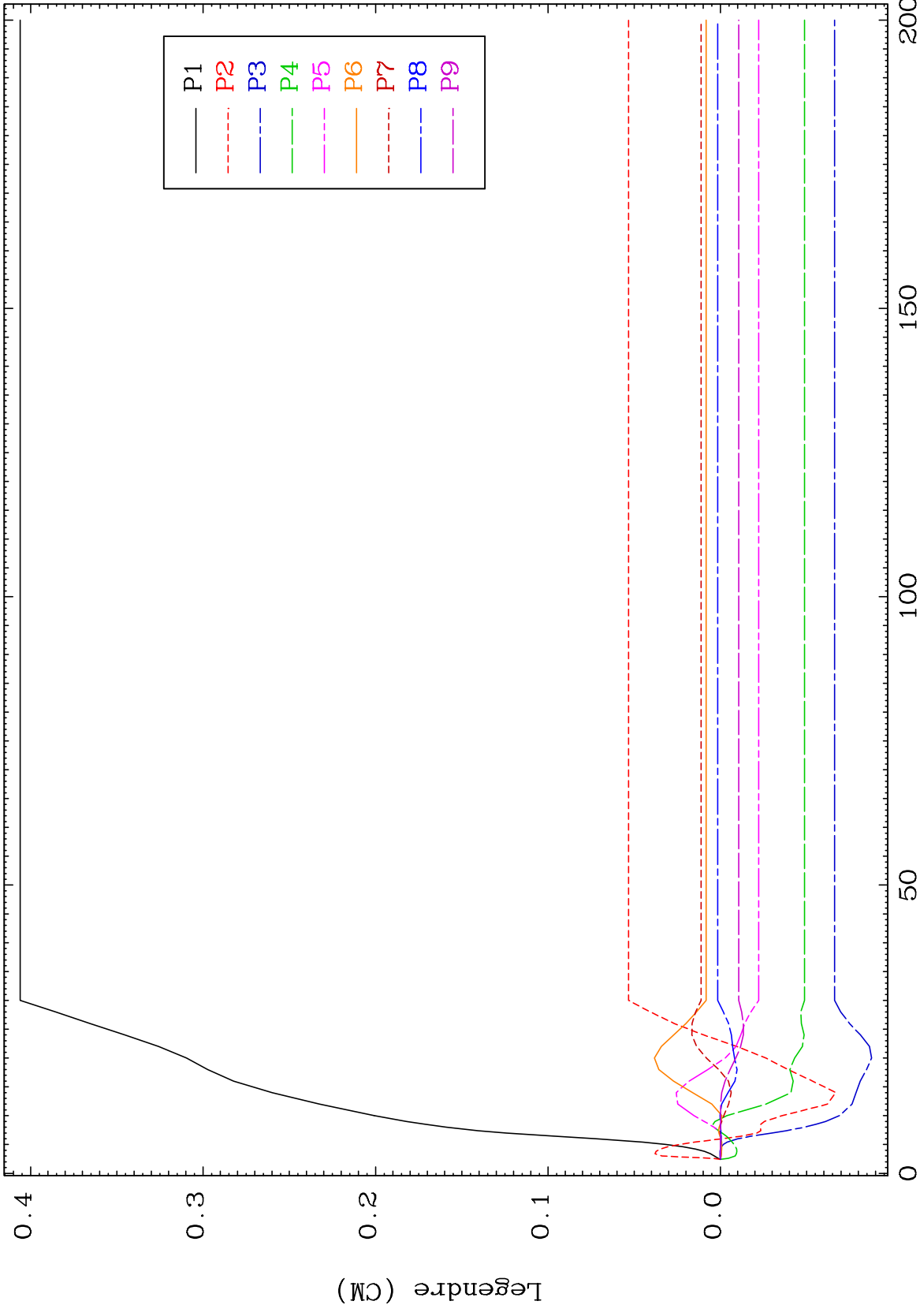
Incident Energy (MeV)

108

MAT 5619

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

56-Ba-128



109

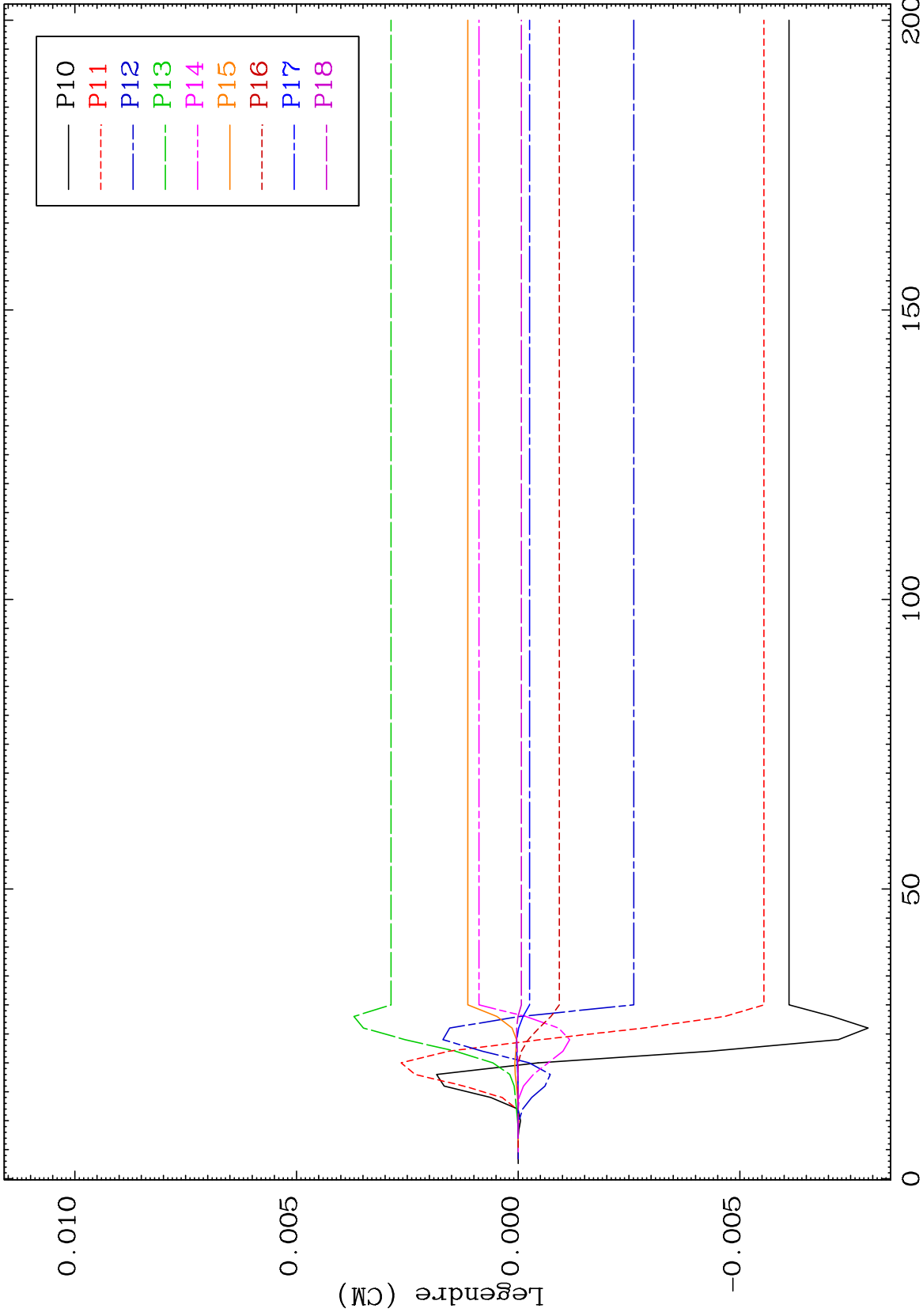
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



110

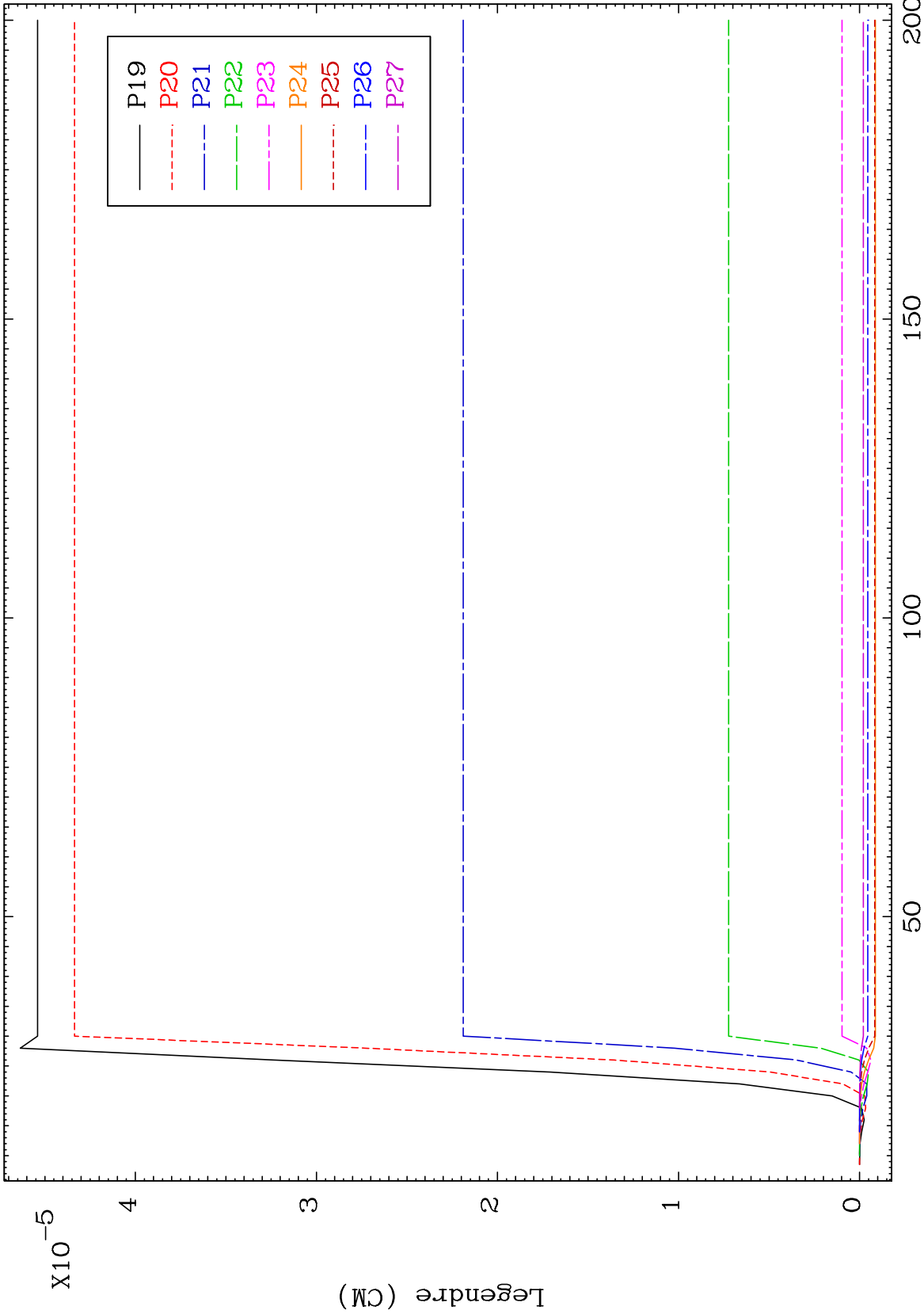
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



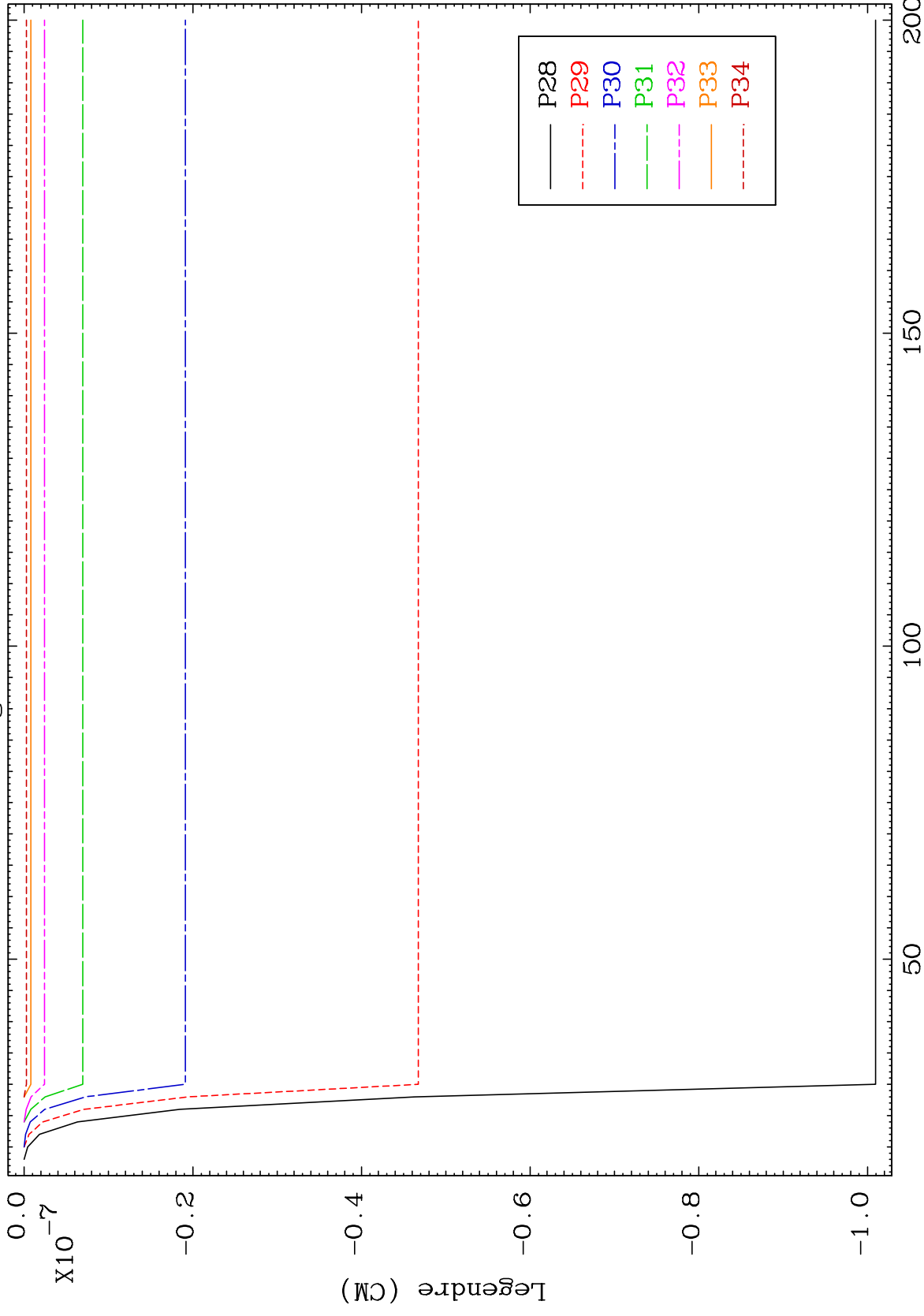
111

56-Ba-128

MAT 5619

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

56-Ba-128



56-Ba-128

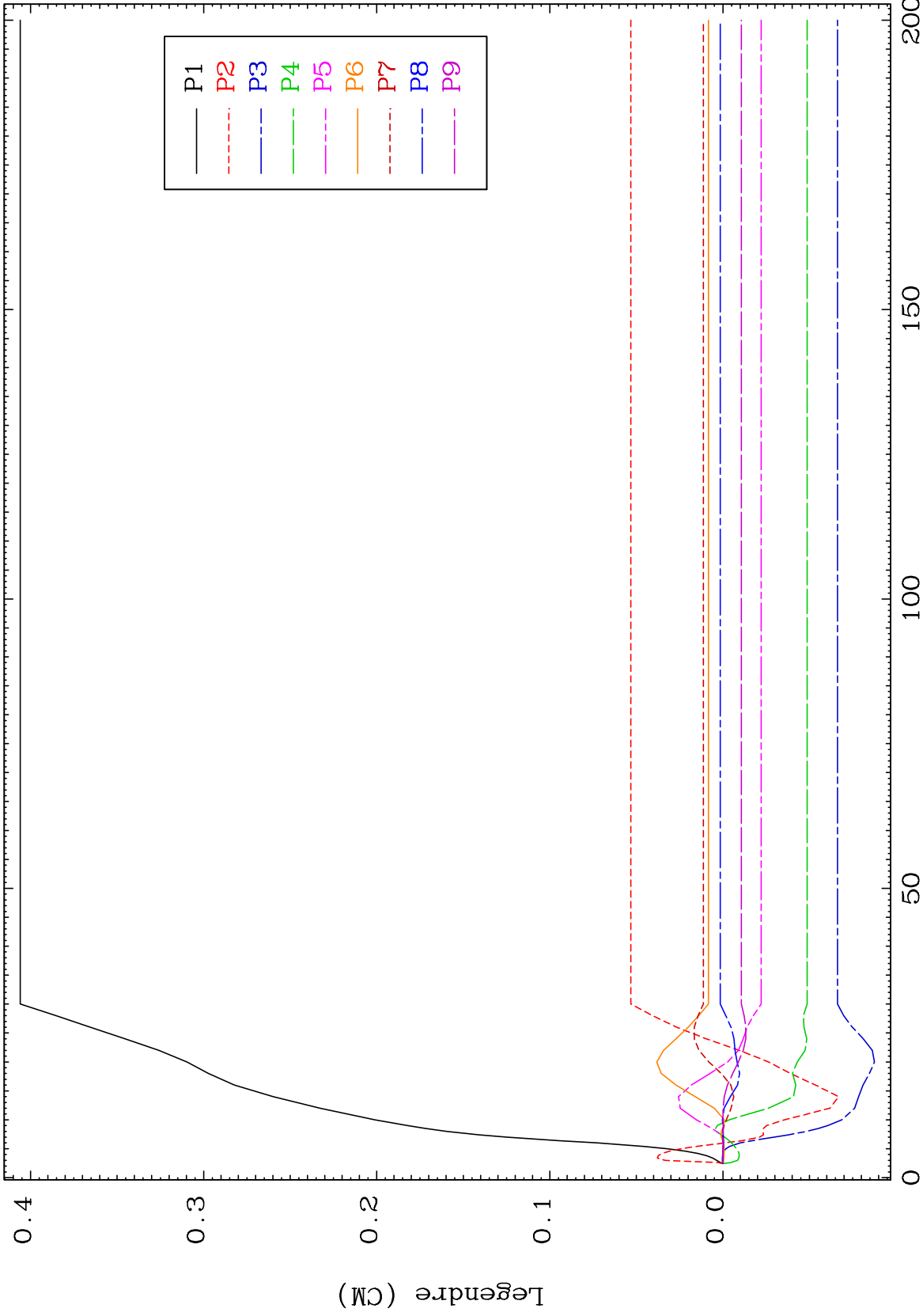
Incident Energy (MeV)

112

MAT 5619

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

56-Ba-128



113

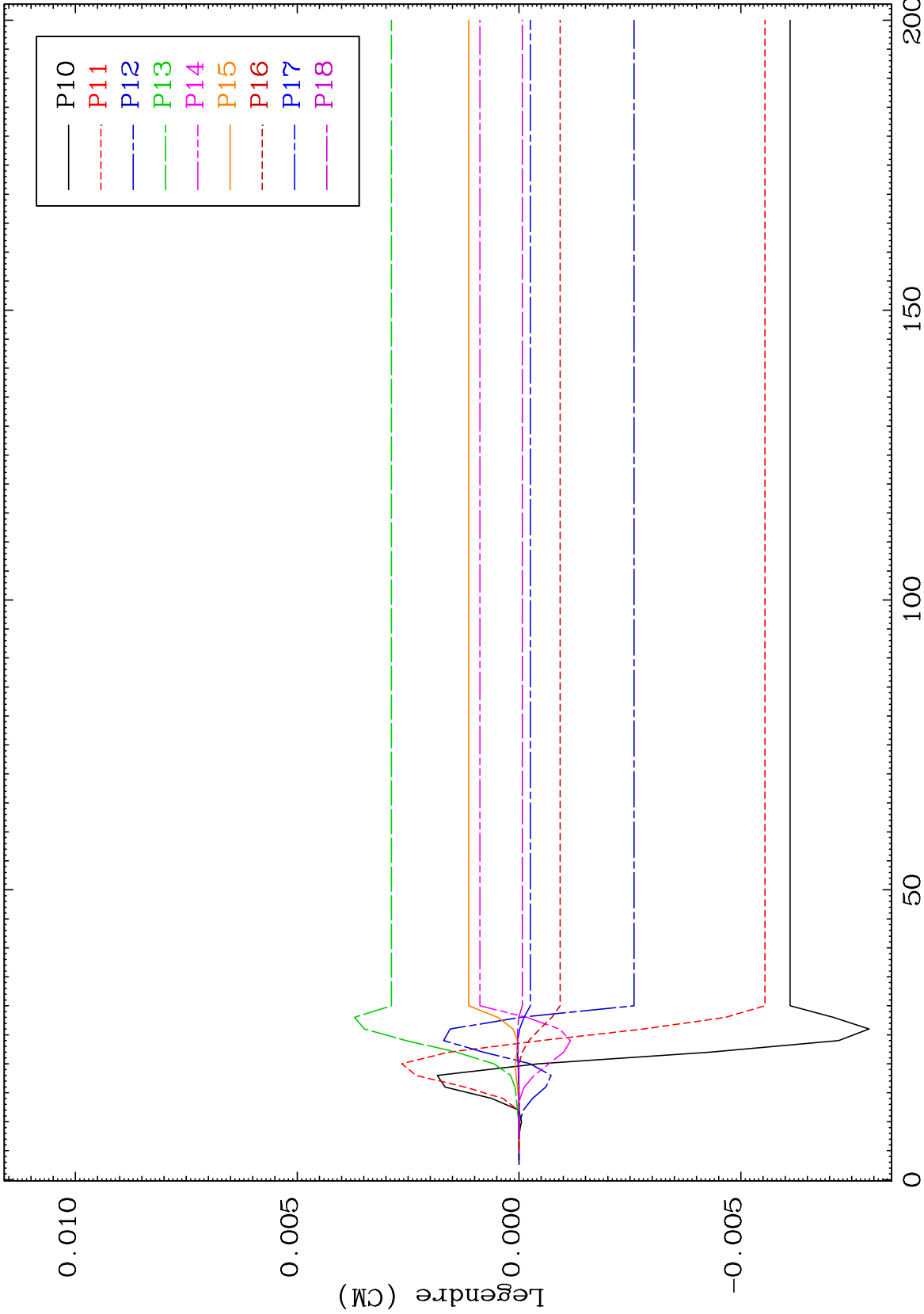
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



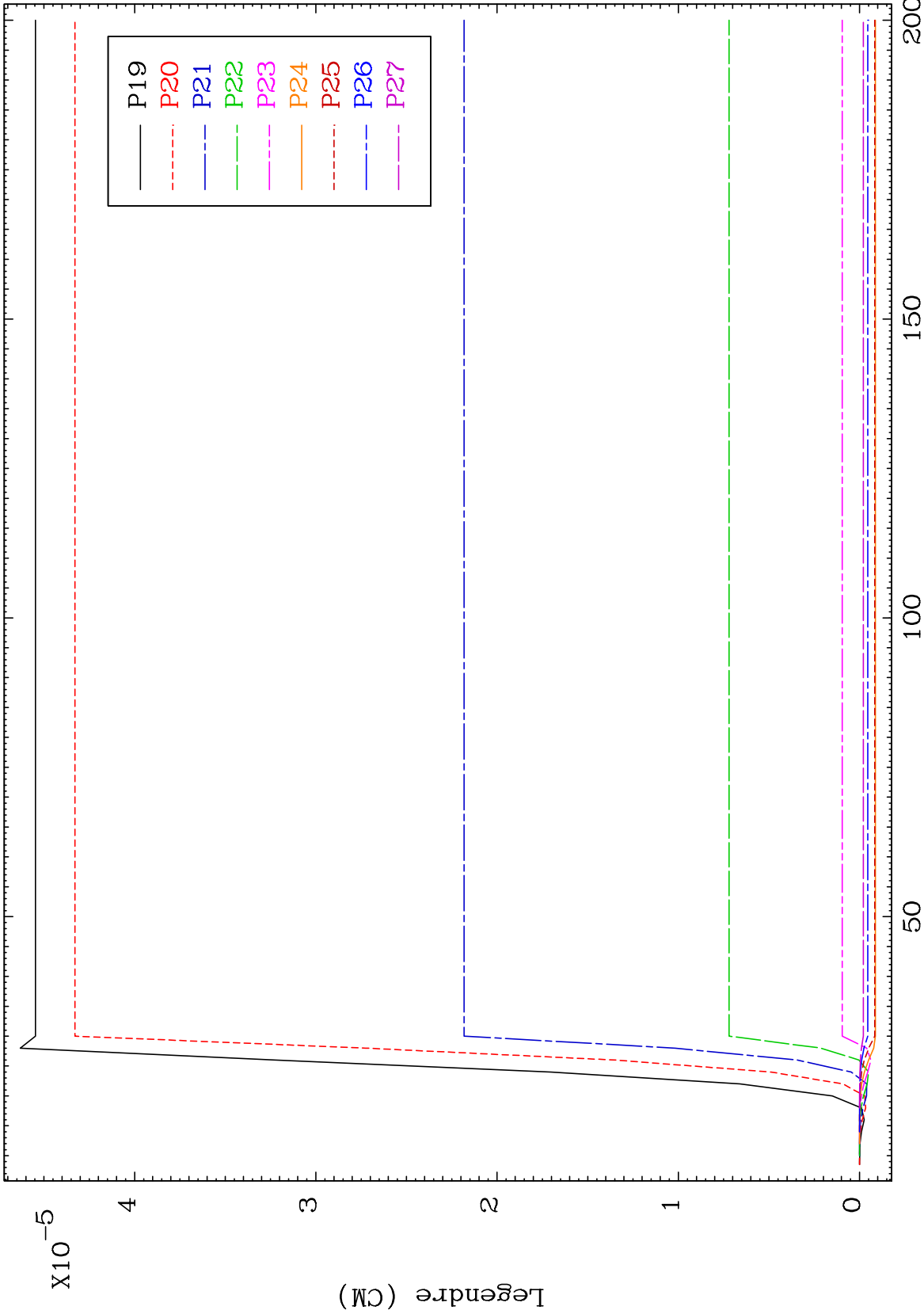
114

56-Ba-128

MAT 5619

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

56-Ba-128



115

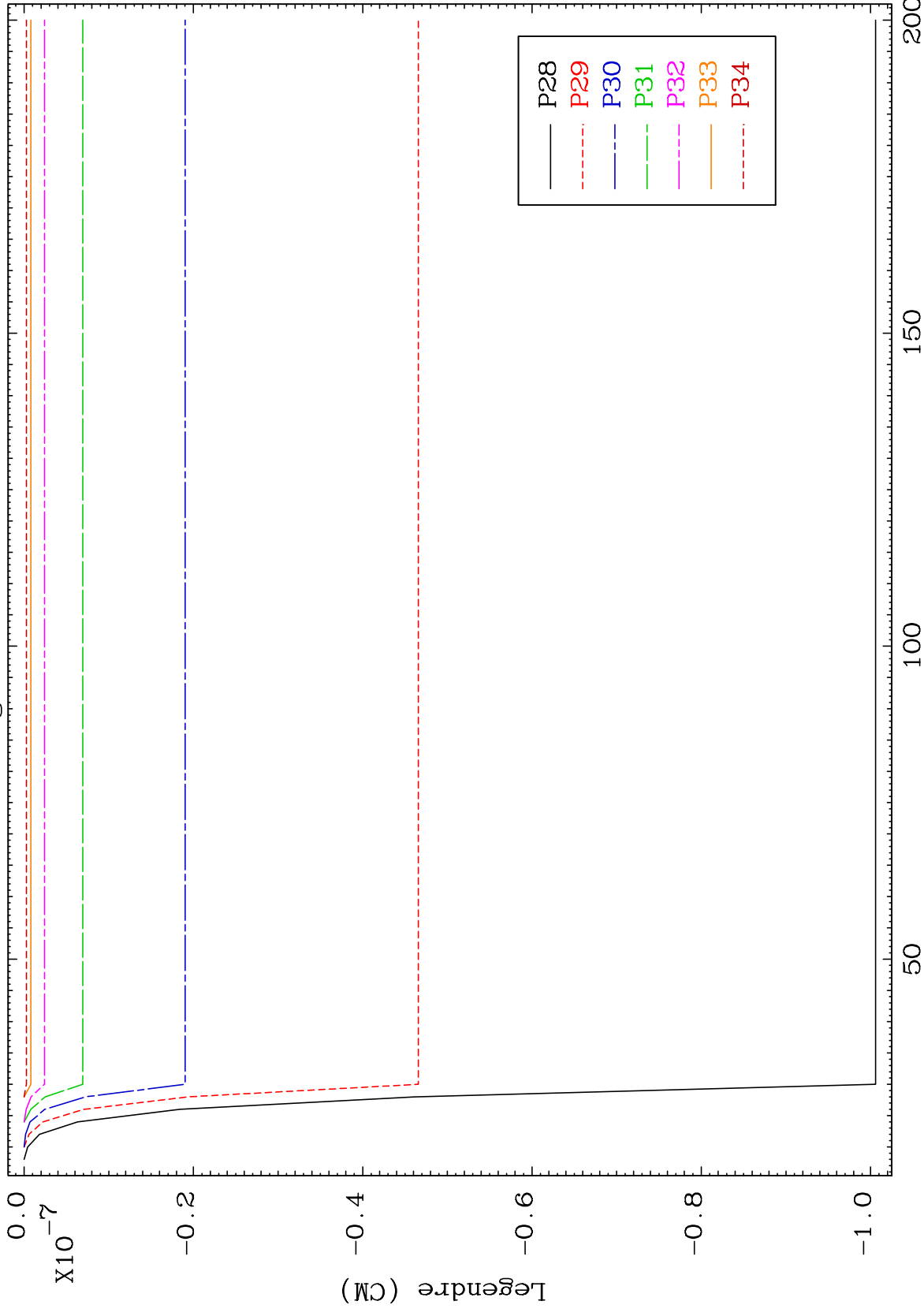
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



56-Ba-128

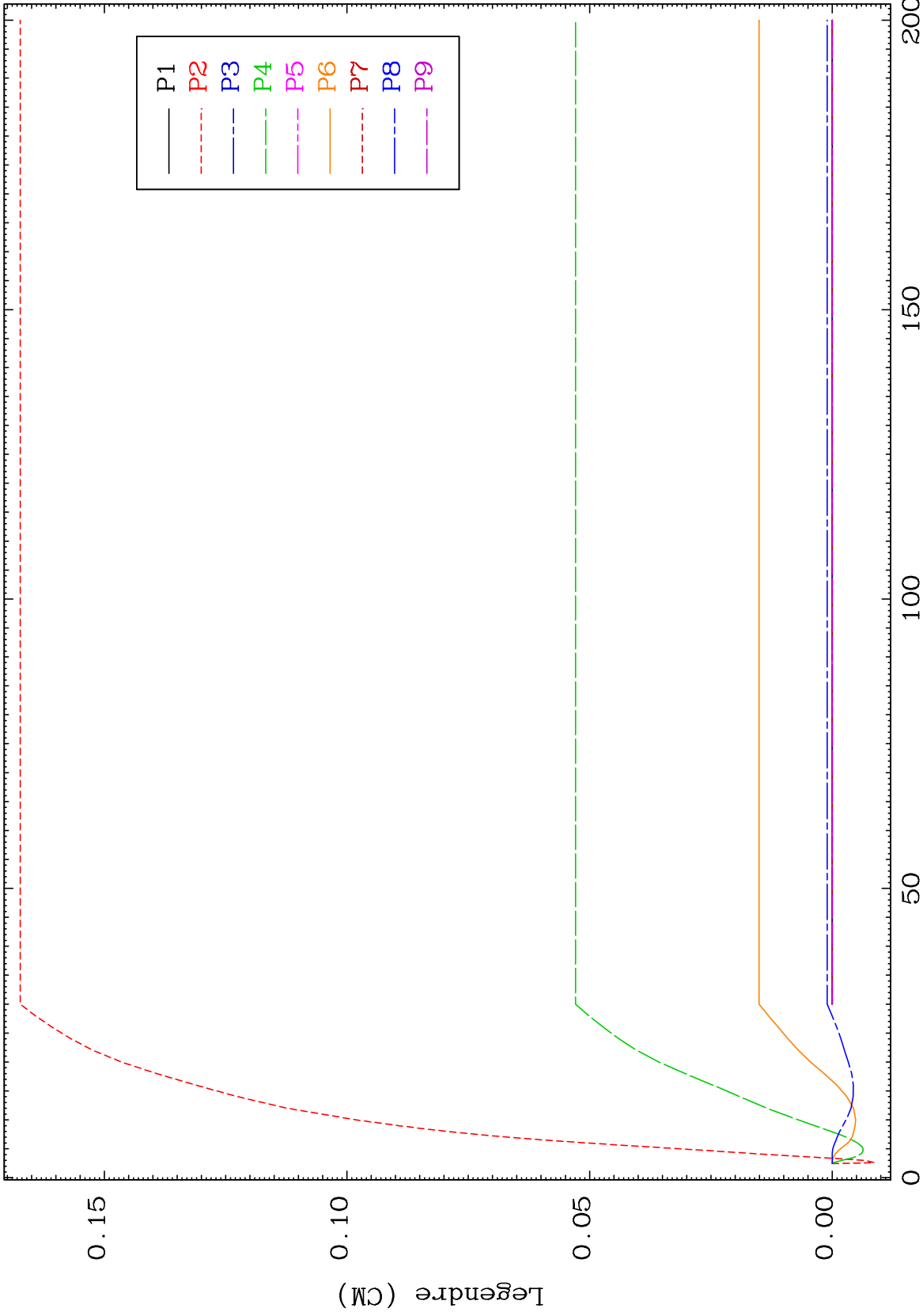
Incident Energy (MeV)

116

MAT 5619

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

56-Ba-128

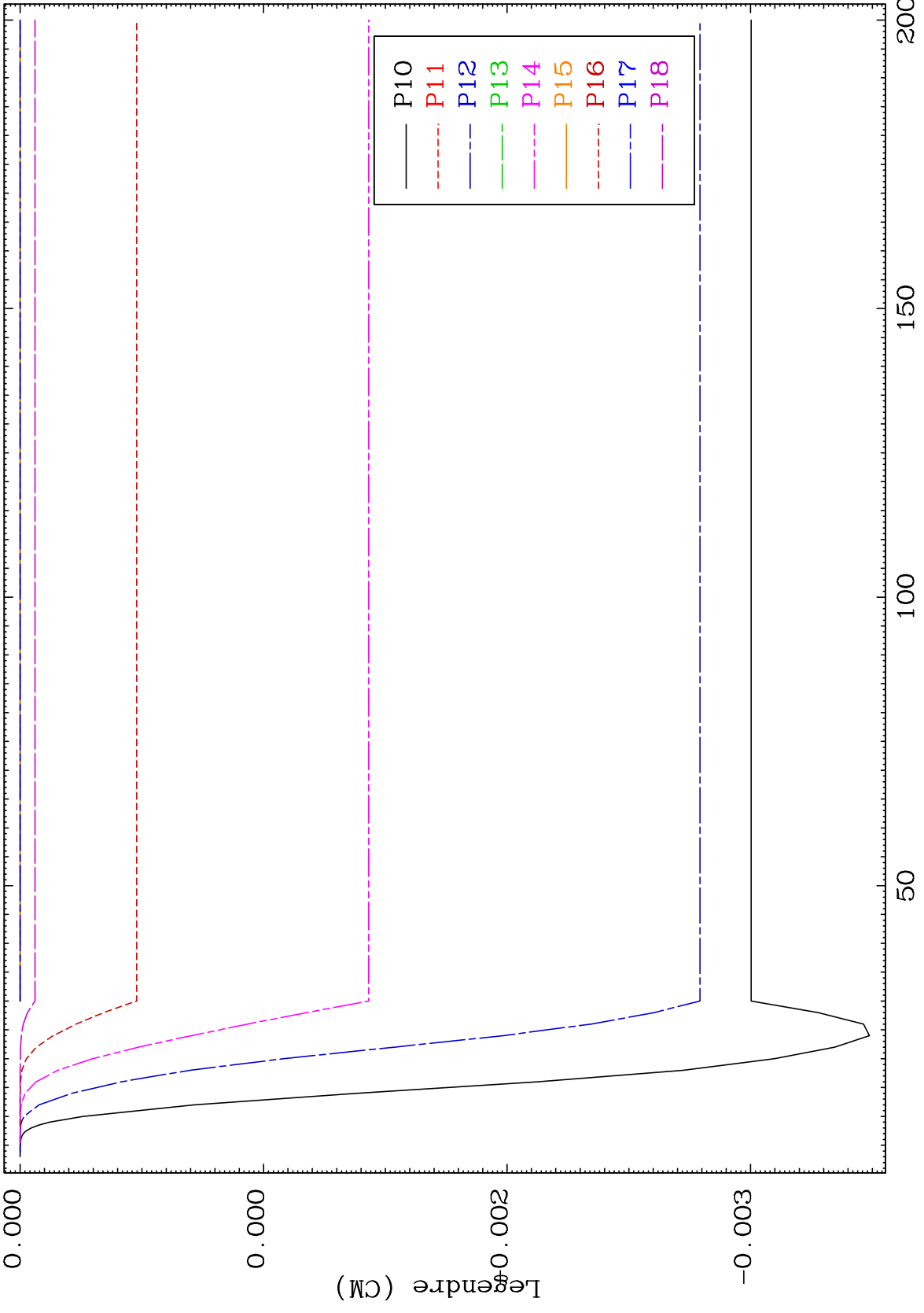


117

Incident Energy (MeV)

56-Ba-128

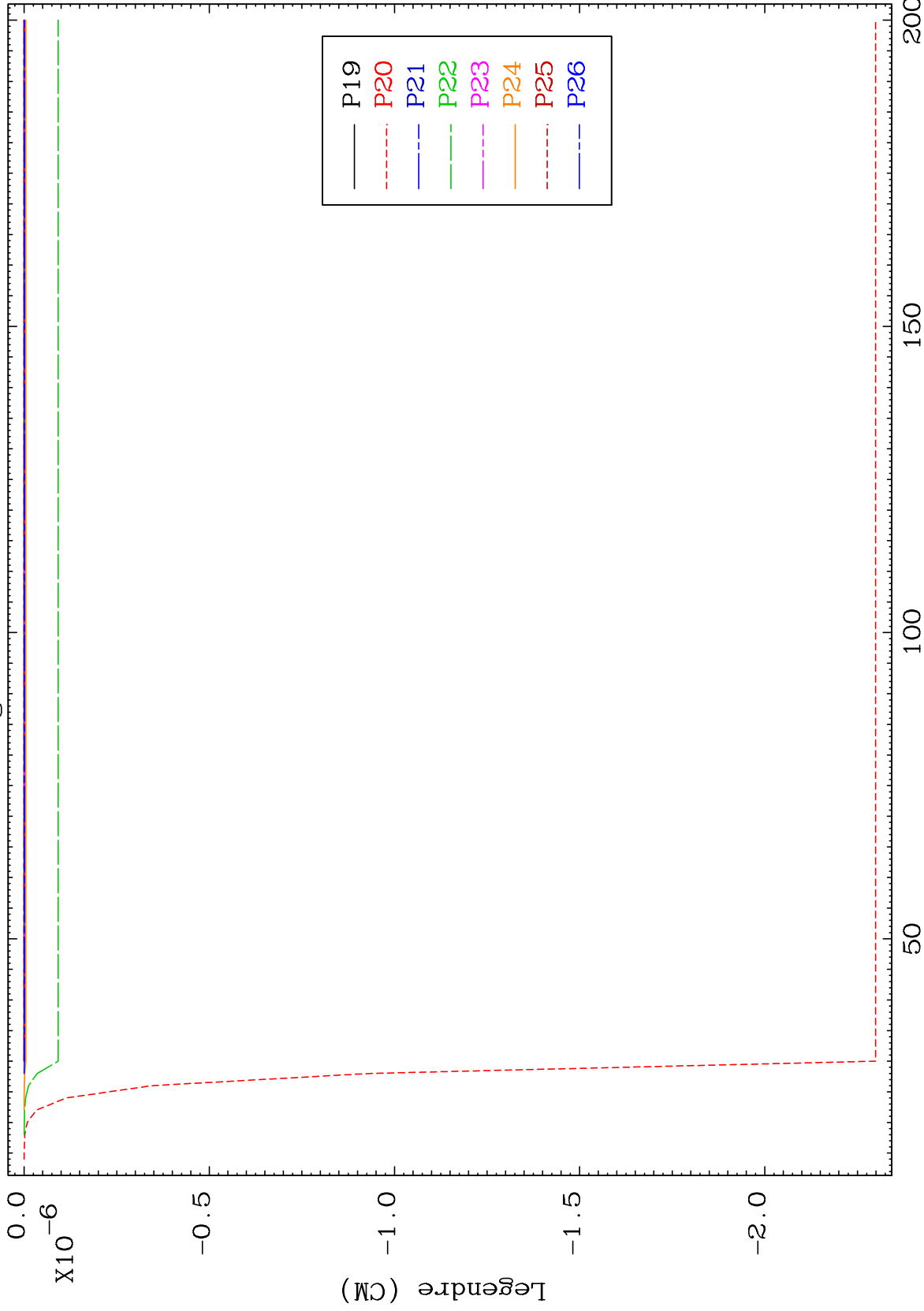
MAT 5619 MT= 77 (n,n') Level Legendre Coefficients 56-Ba-128



MAT 5619

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

56-Ba-128

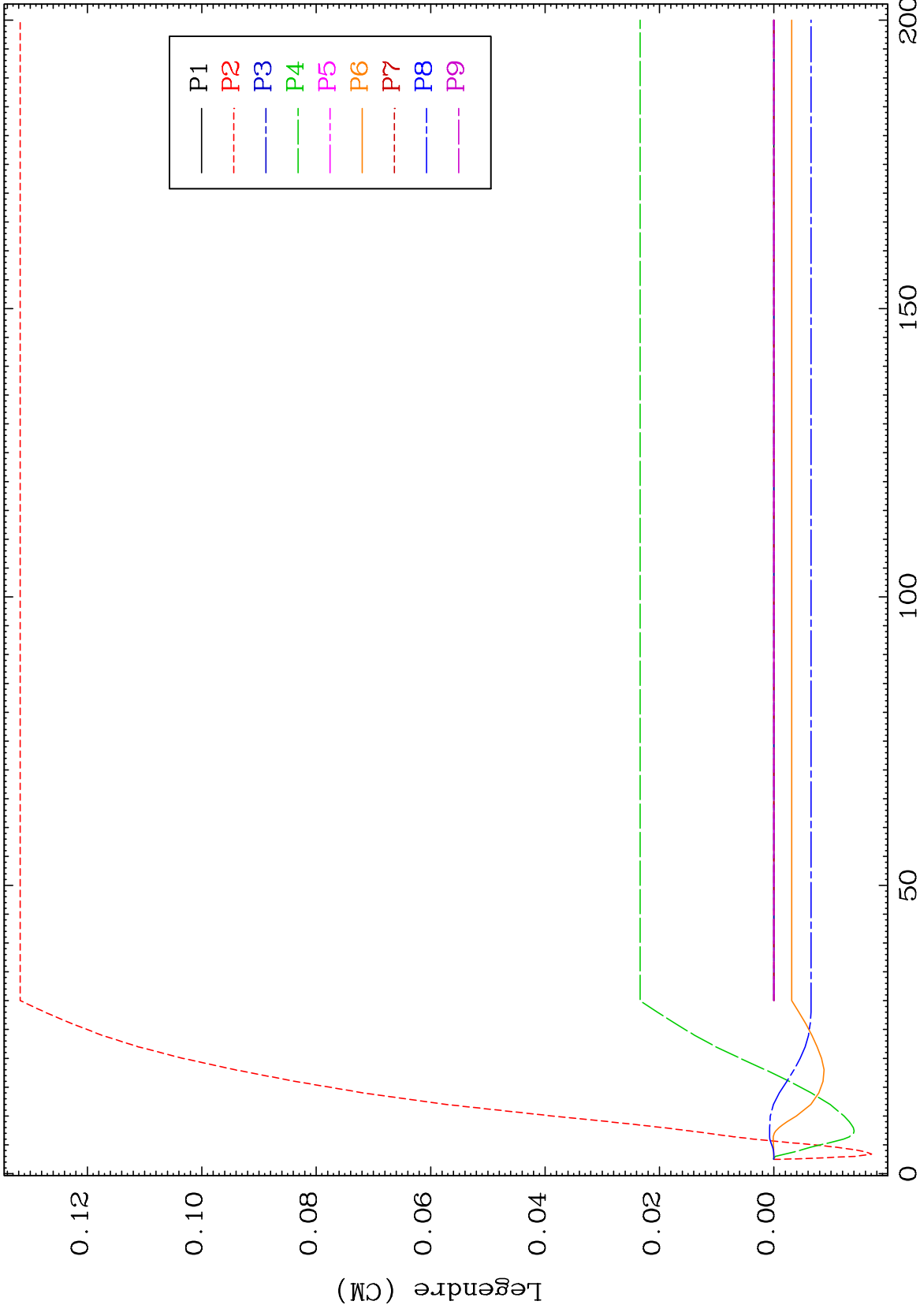


119

Incident Energy (MeV)

56-Ba-128

MAT 5619 MT= 78 (n,n') Level Legendre Coefficients 56-Ba-128

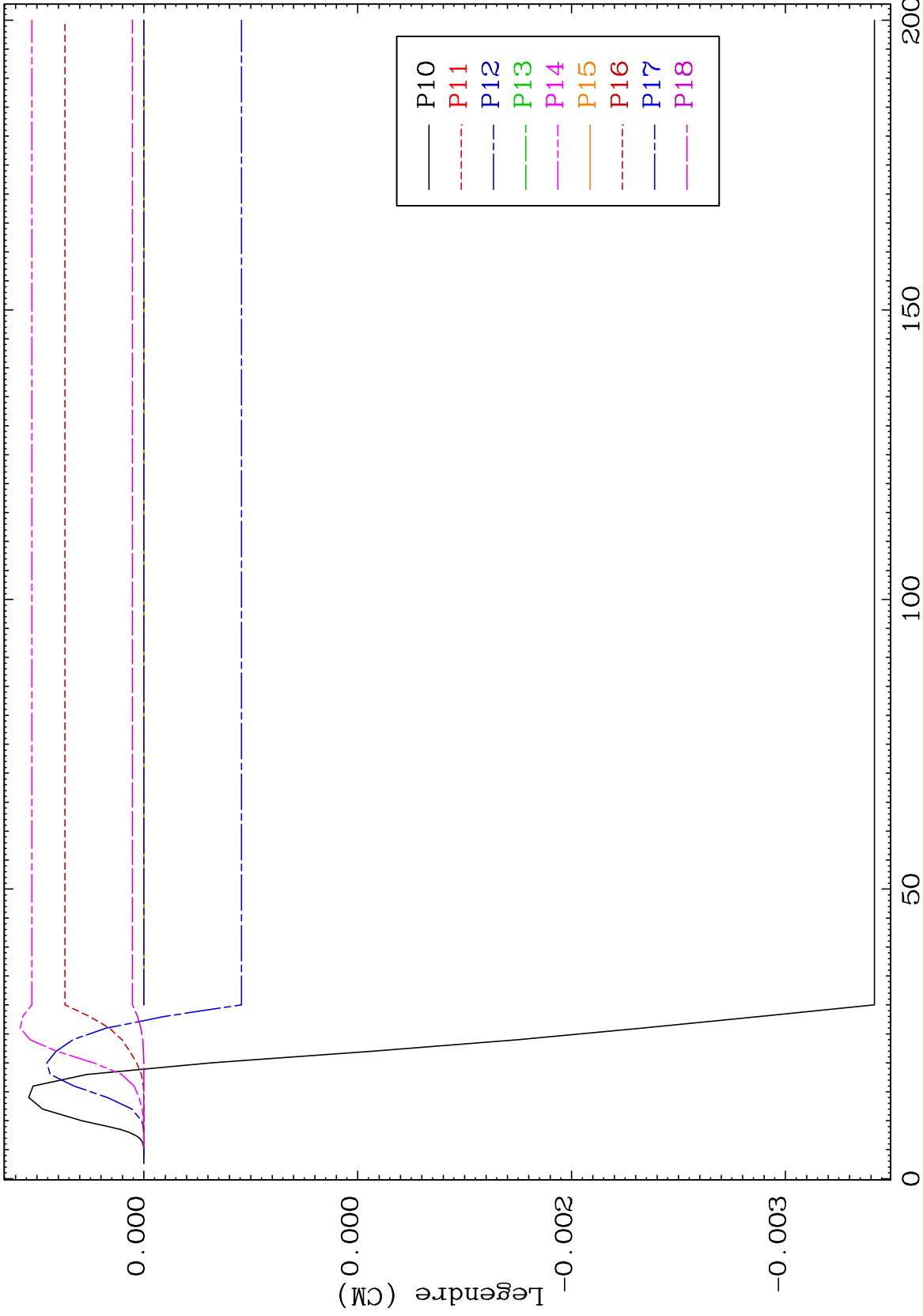


56-Ba-128

MAT 5619

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

56-Ba-128



121

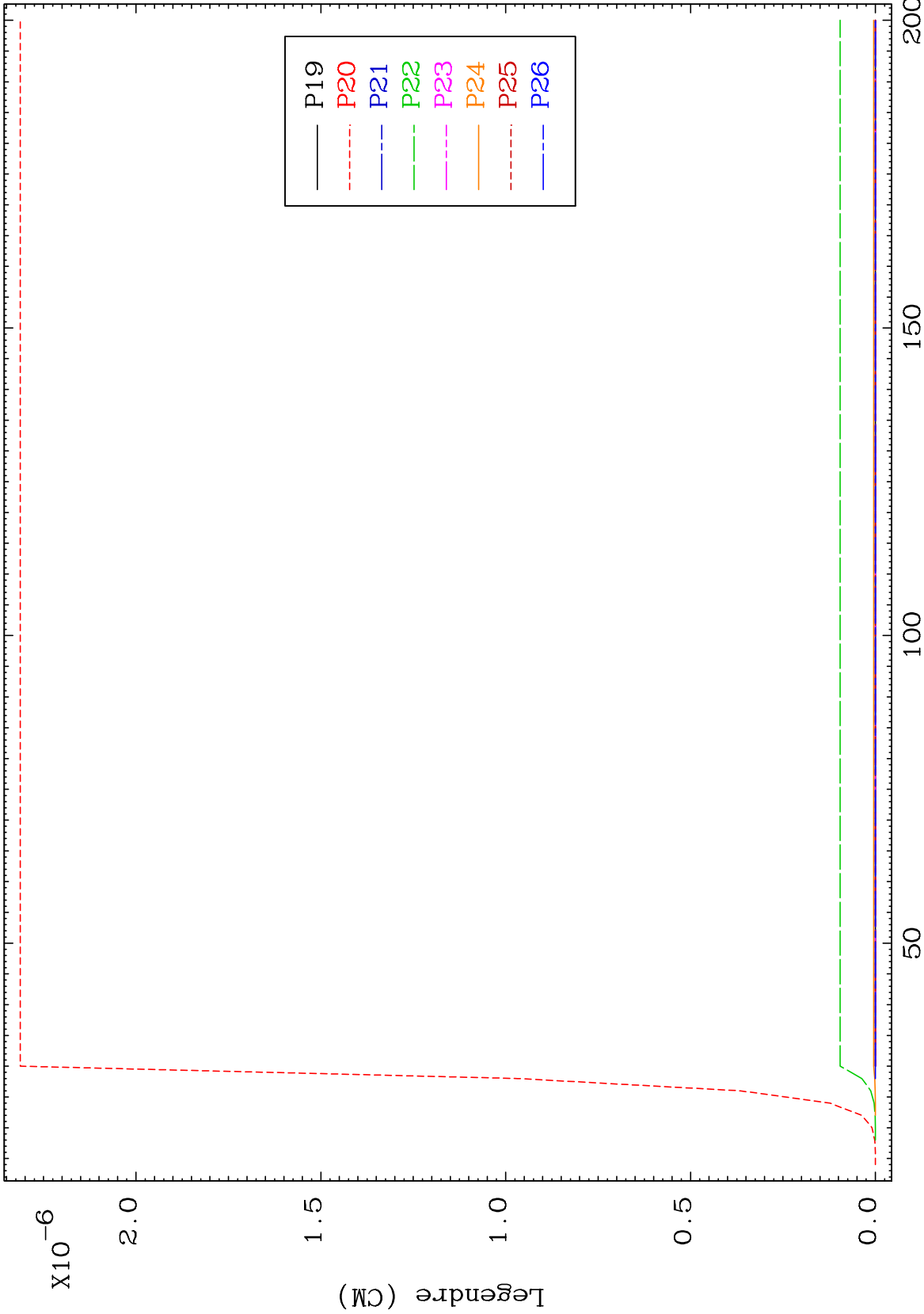
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



122

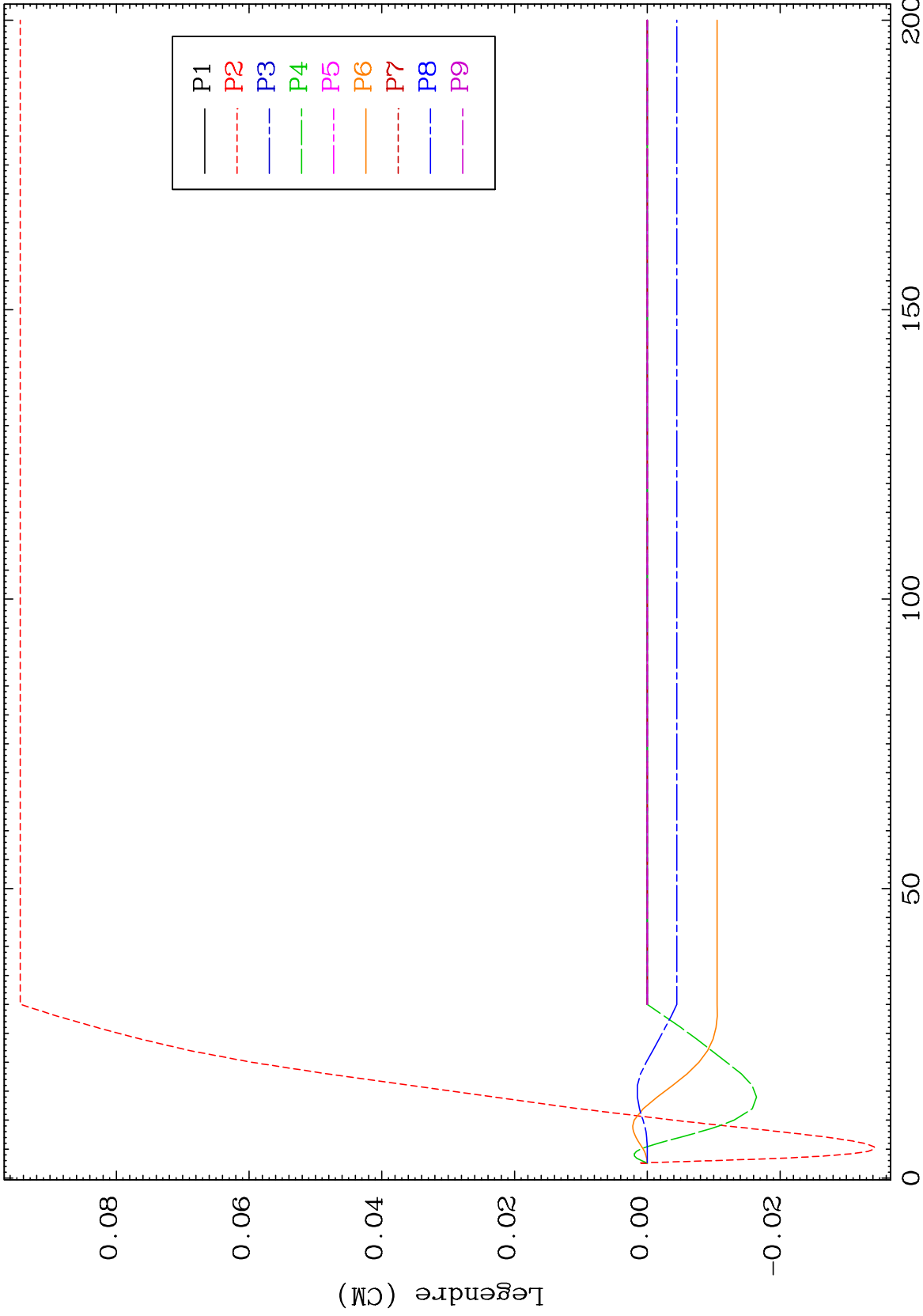
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128



123

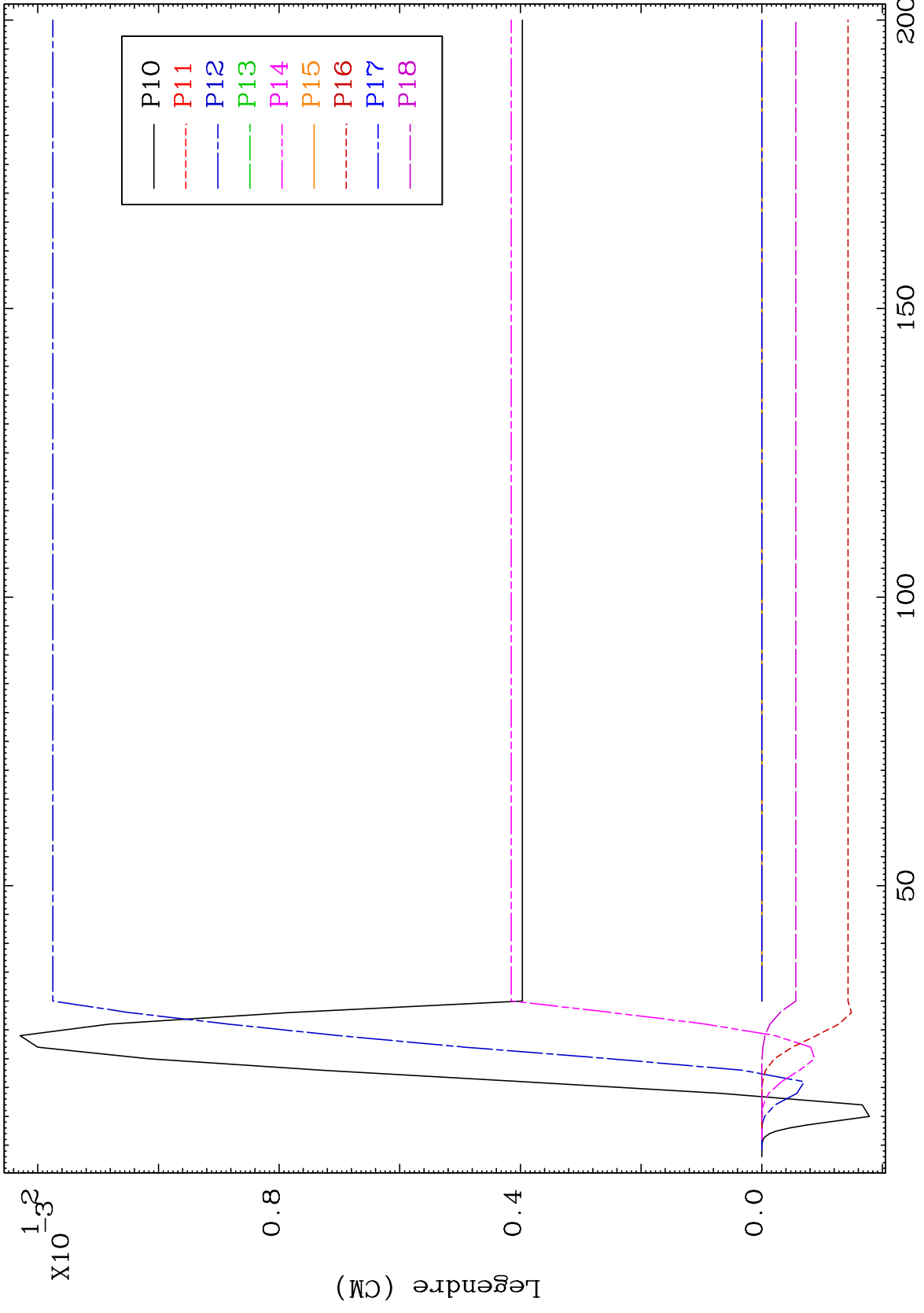
Incident Energy (MeV)

56-Ba-128

MAT 5619

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

56-Ba-128

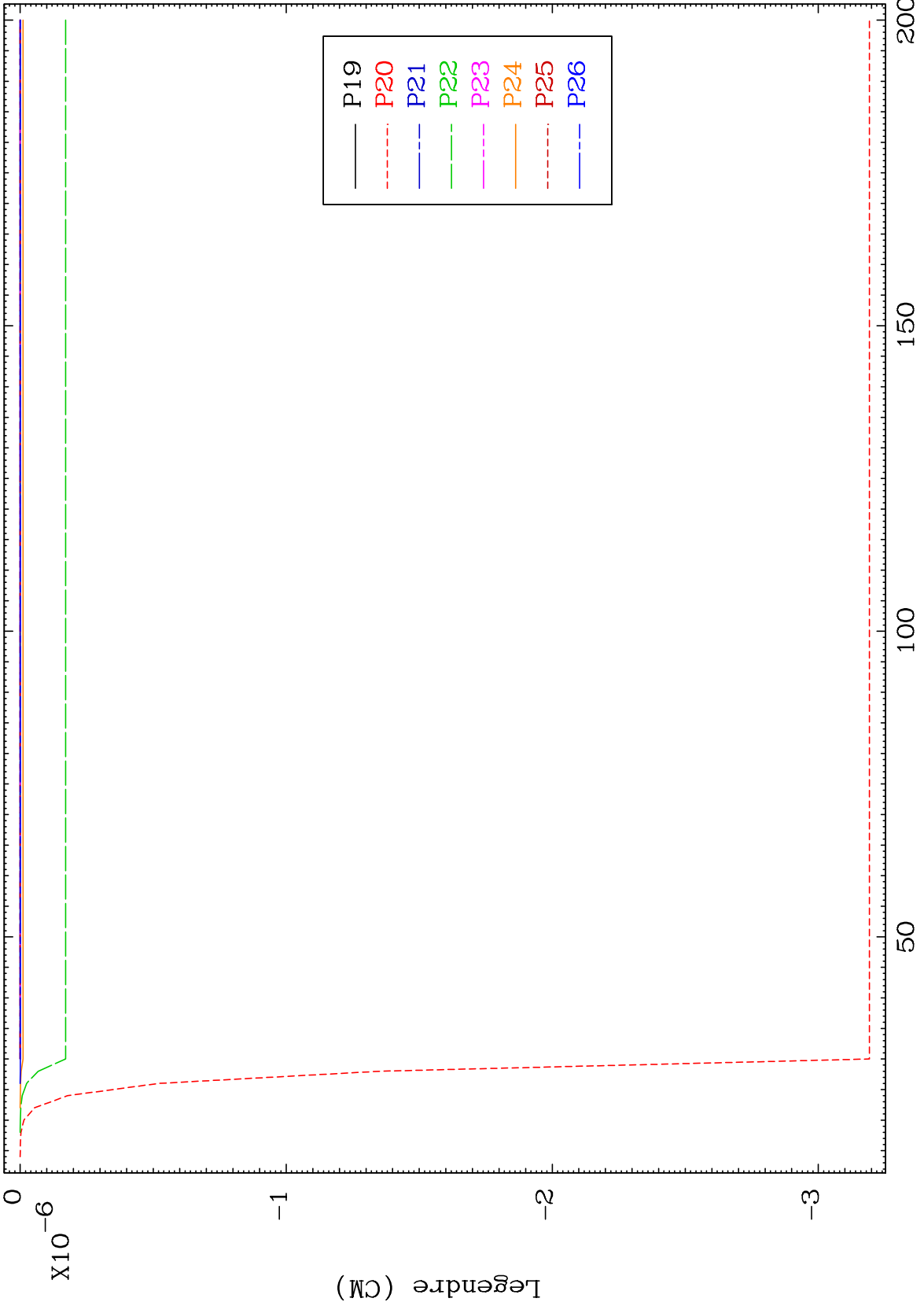


124

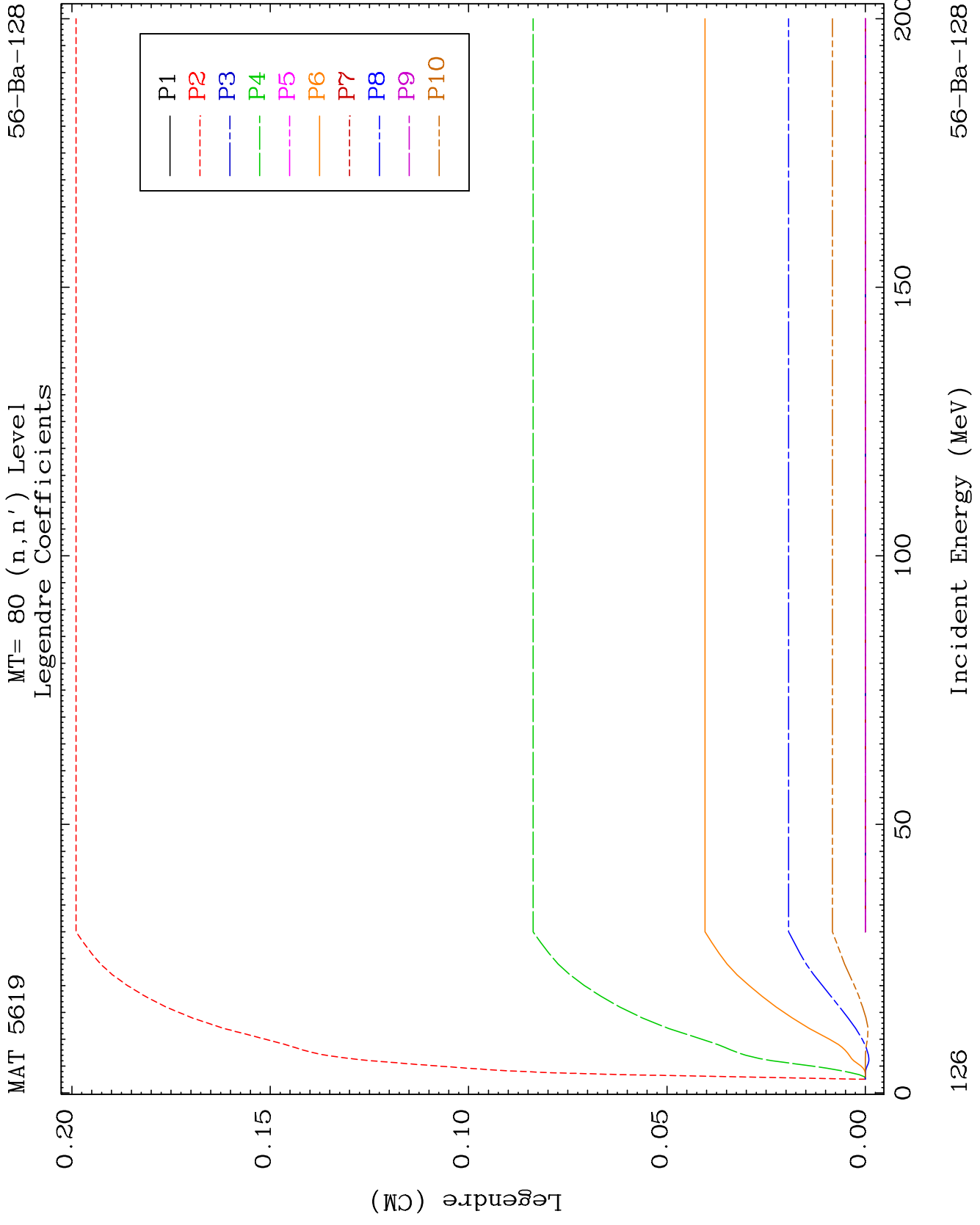
Incident Energy (MeV)

56-Ba-128

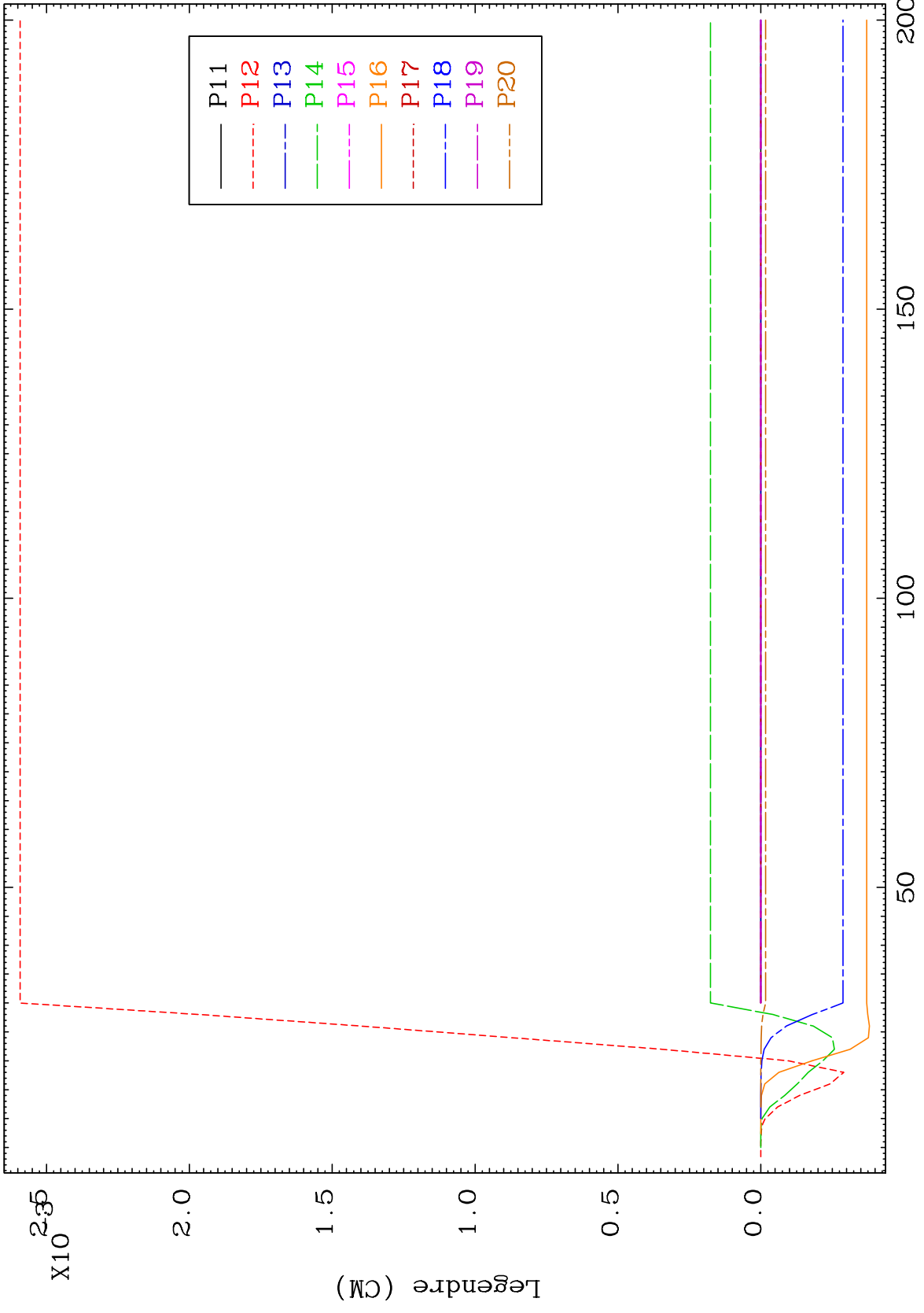
MAT 5619 MT= 79 (n,n') Level Legendre Coefficients 56-Ba-128



125 50 100 150 200 Incident Energy (MeV) 56-Ba-128

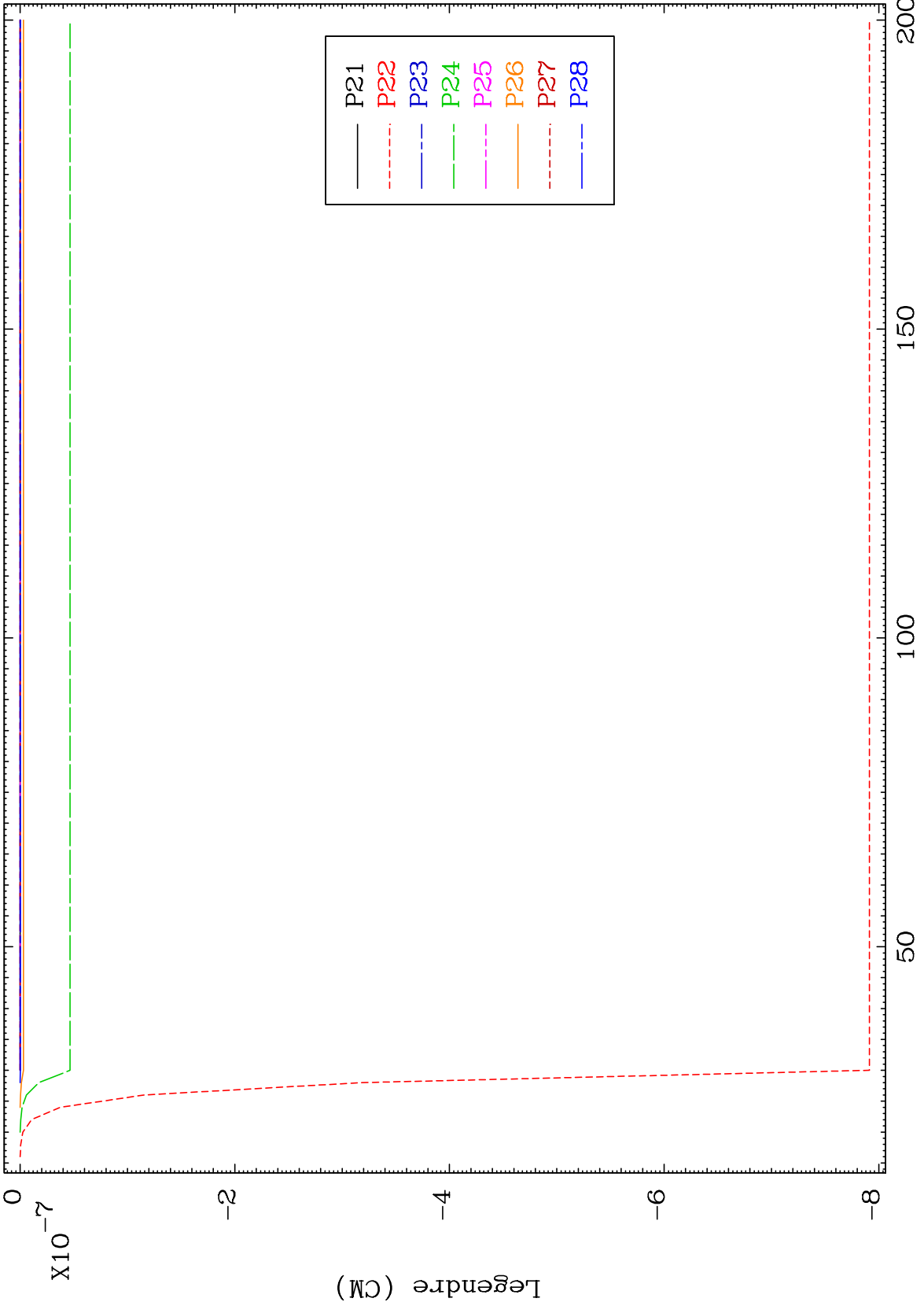


MAT 5619 MT= 80 (n,n') Level Legendre Coefficients 56-Ba-128



127 56-Ba-128

MAT 5619 MT= 80 (n,n') Level Legendre Coefficients 56-Ba-128

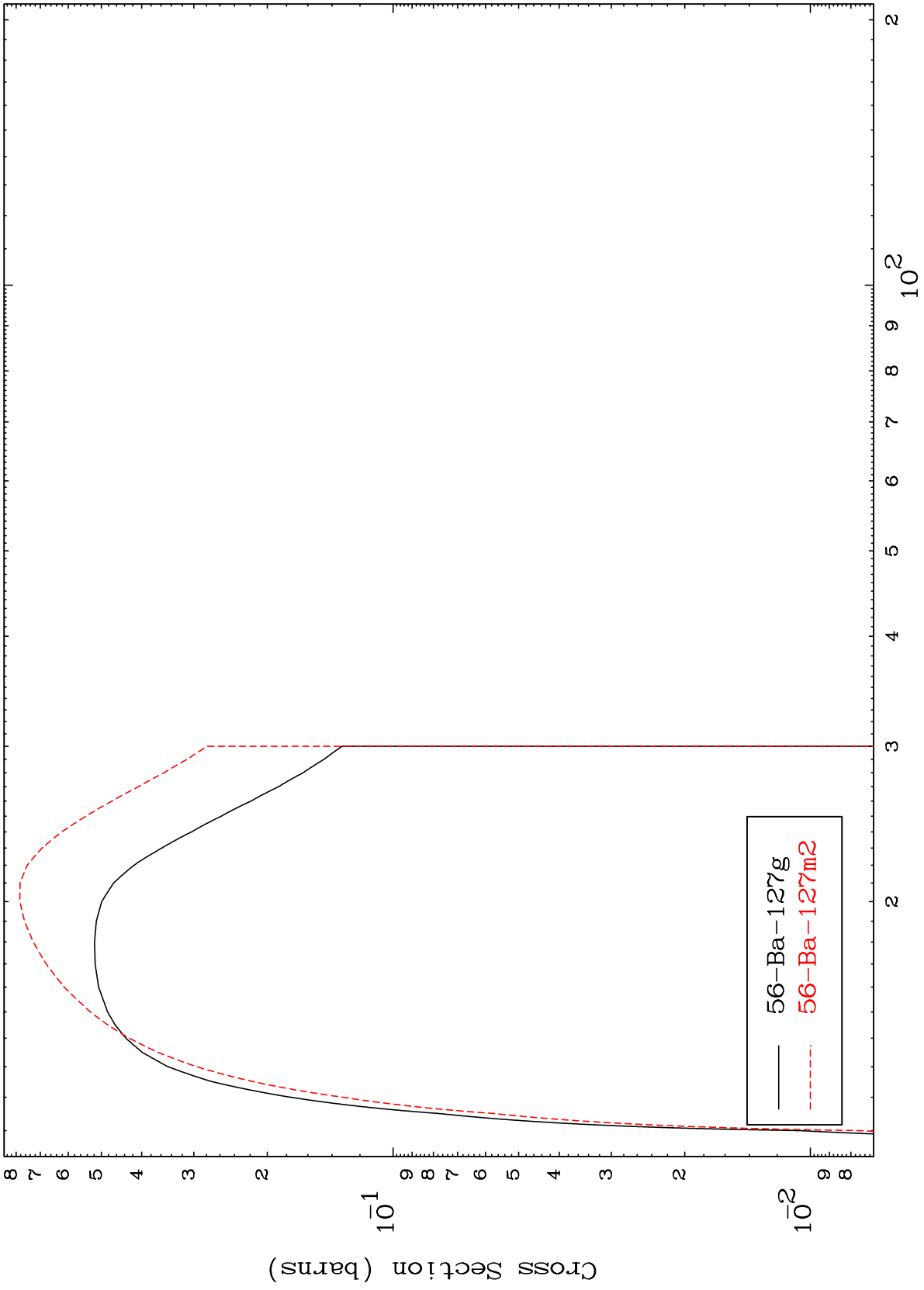


128 56-Ba-128

MAT 5619

56-Ba-128

(n,2n)
Radionuclide Production Cross Section



129

56-Ba-128

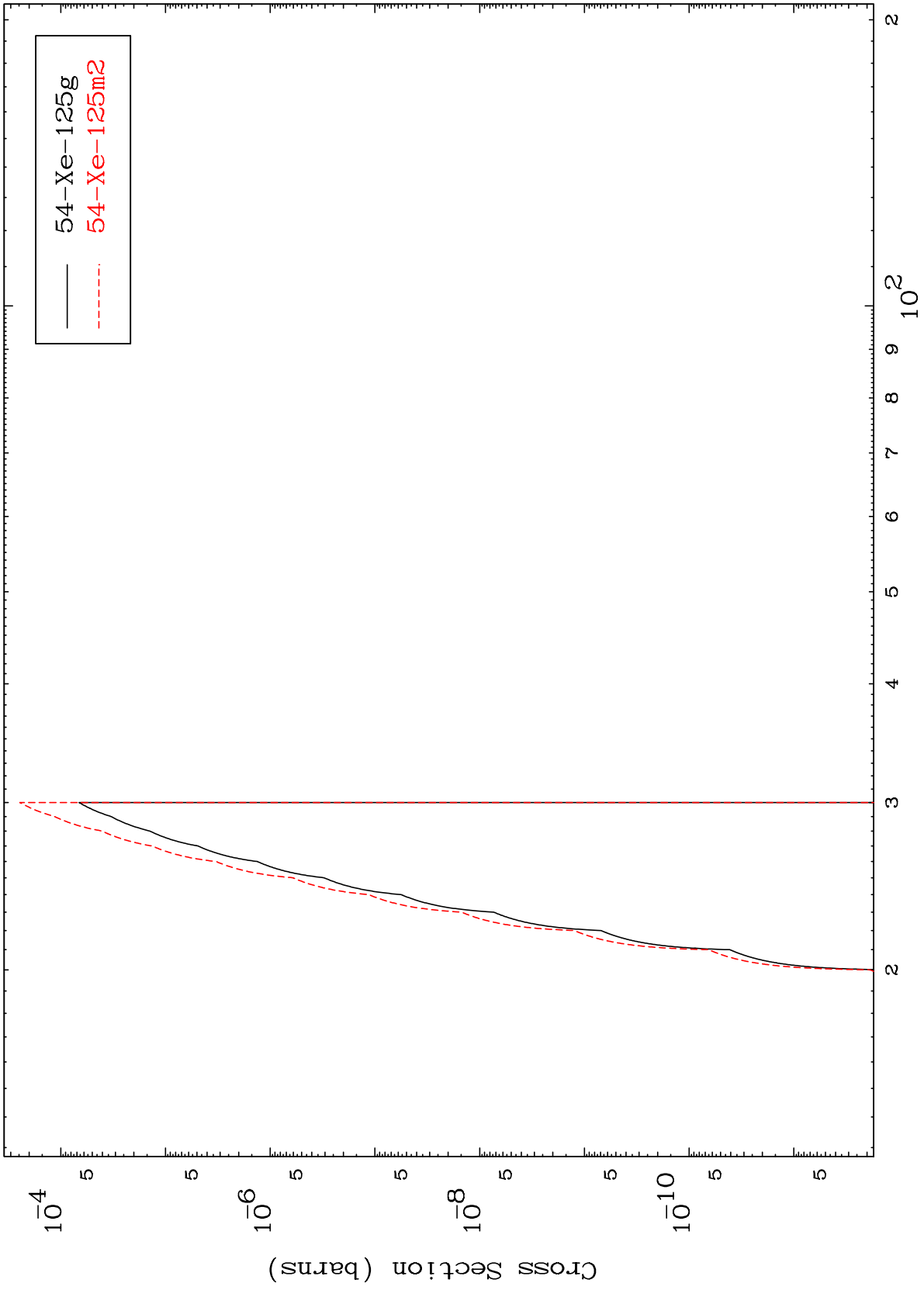
Incident Energy (MeV)

MAT 5619

(n, n') He-3

56-Ba-128

Radionuclide Production Cross Section



130

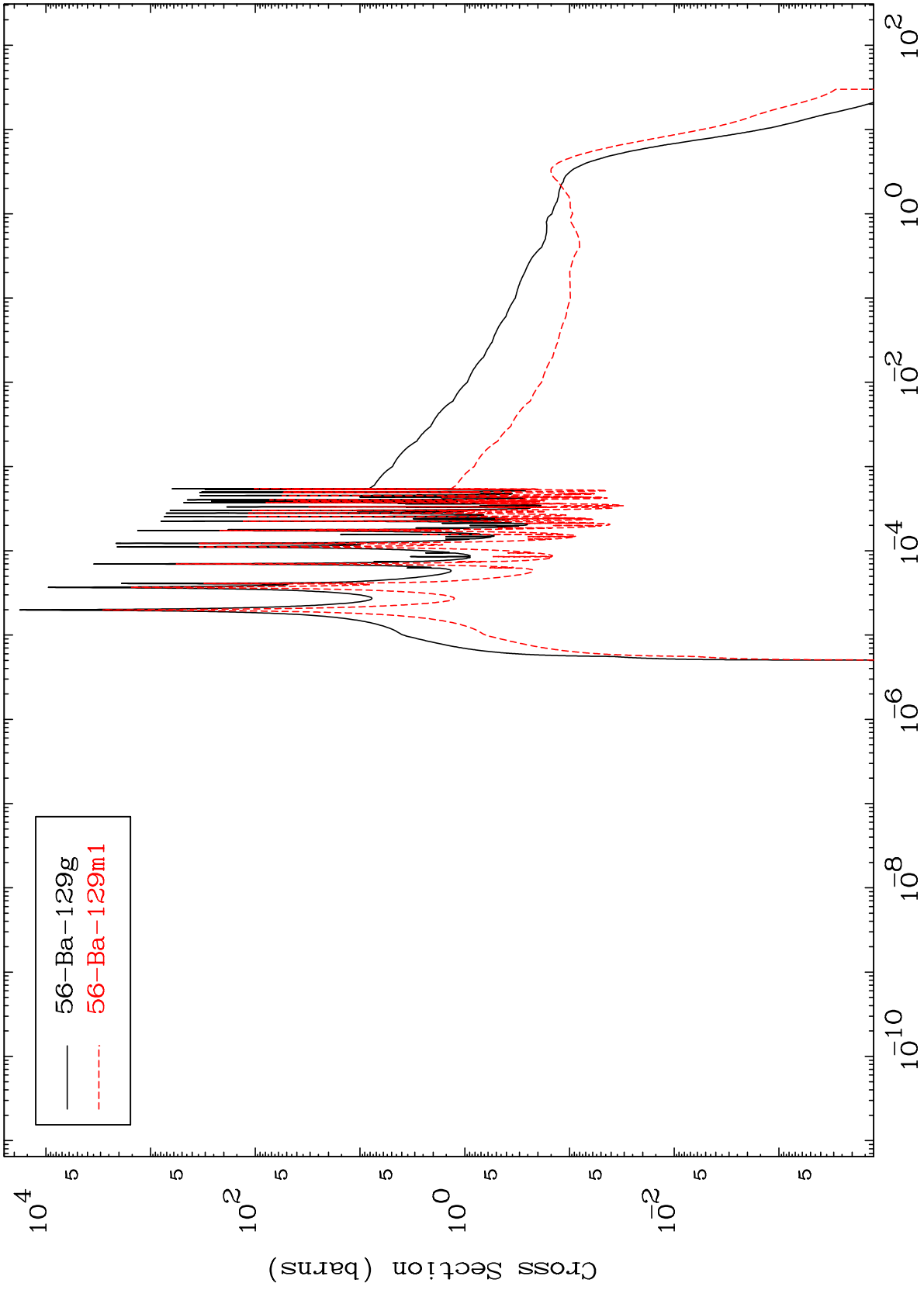
Incident Energy (MeV)

56-Ba-128

MAT 5619

56-Ba-128

(n,γ)
Radionuclide Production Cross Section



131

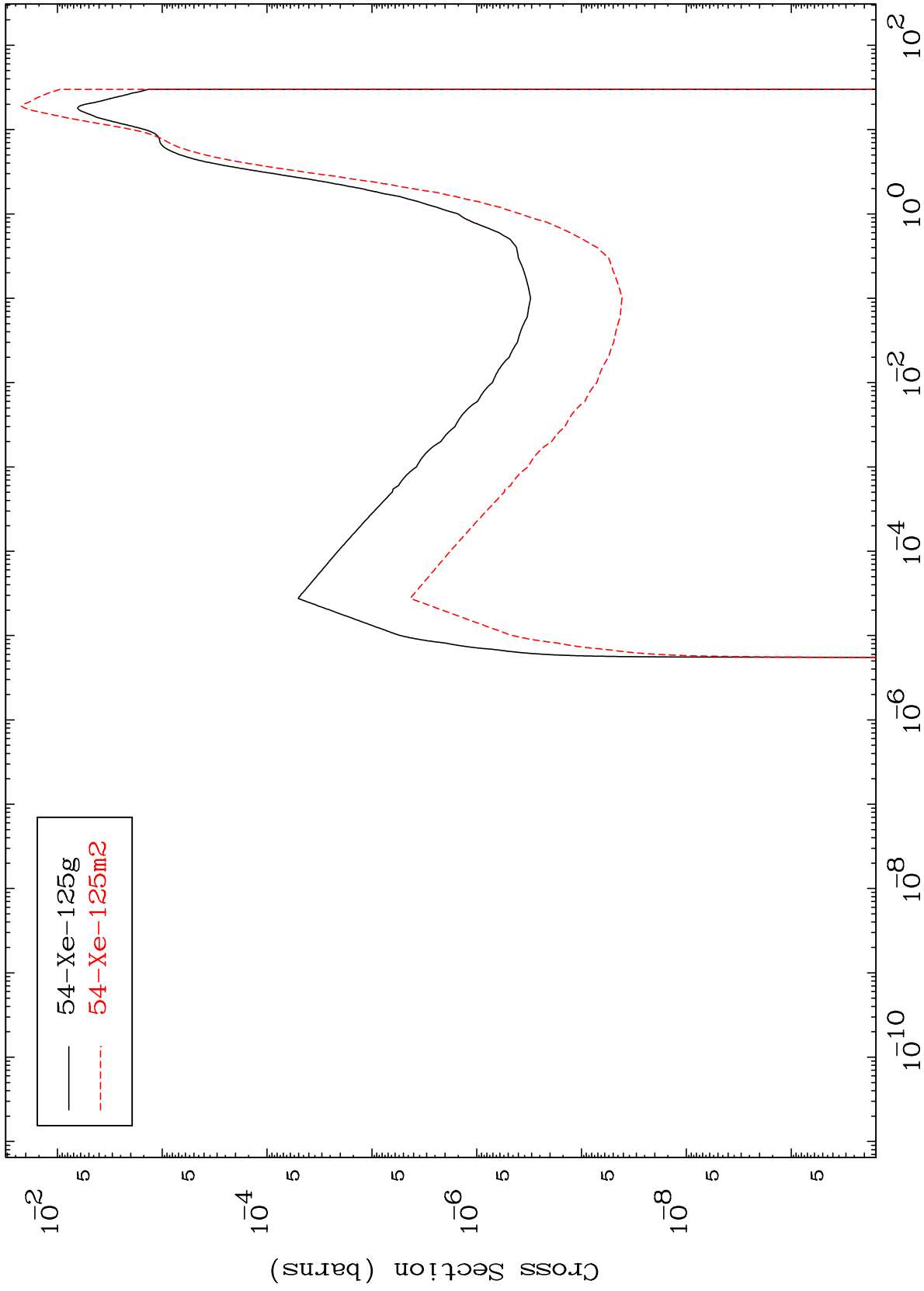
56-Ba-128

MAT 5619

(n, α)

56-Ba-128

Radionuclide Production Cross Section



132

Incident Energy (MeV)

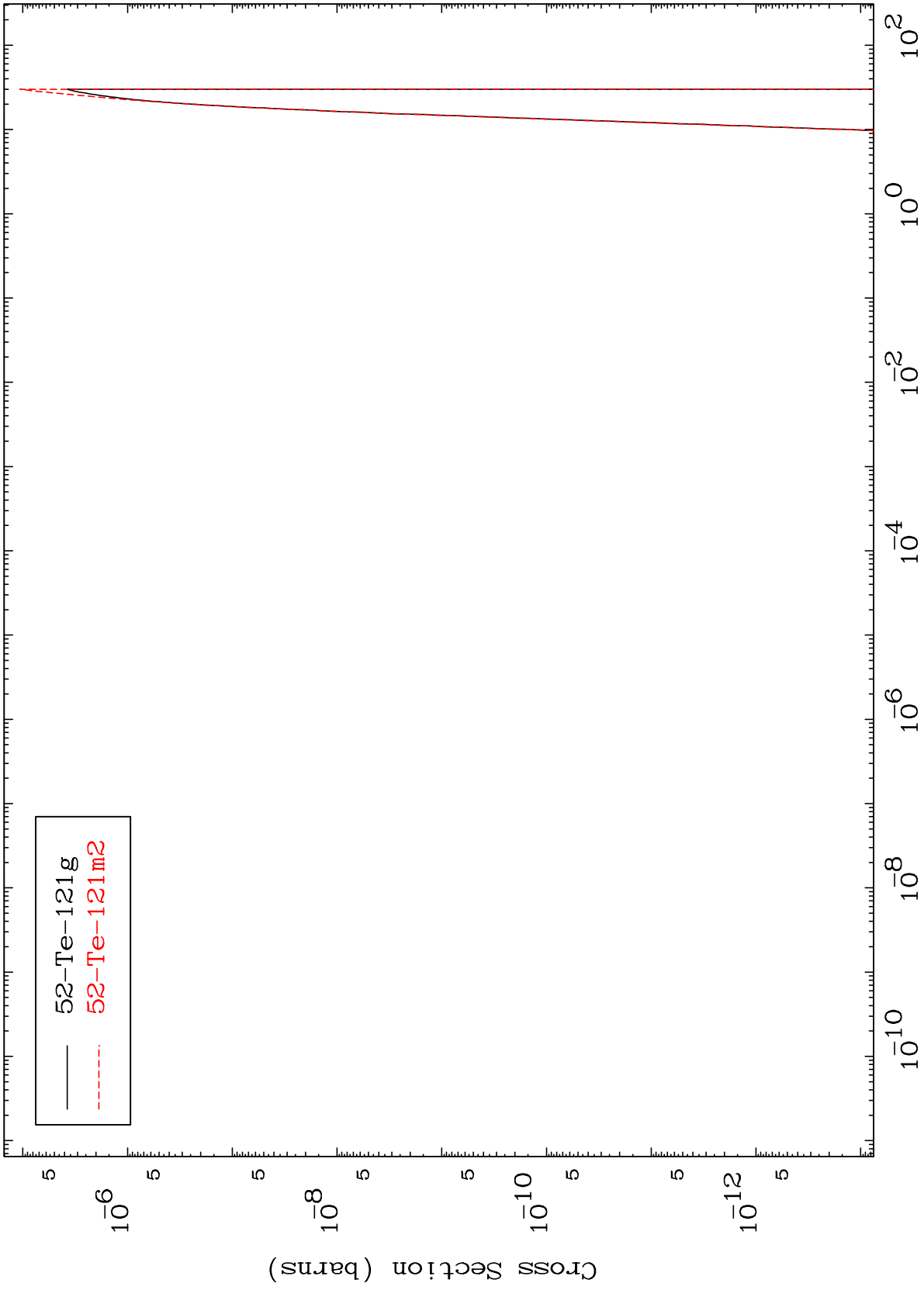
56-Ba-128

MAT 5619

(n,2α)

56-Ba-128

Radionuclide Production Cross Section



133

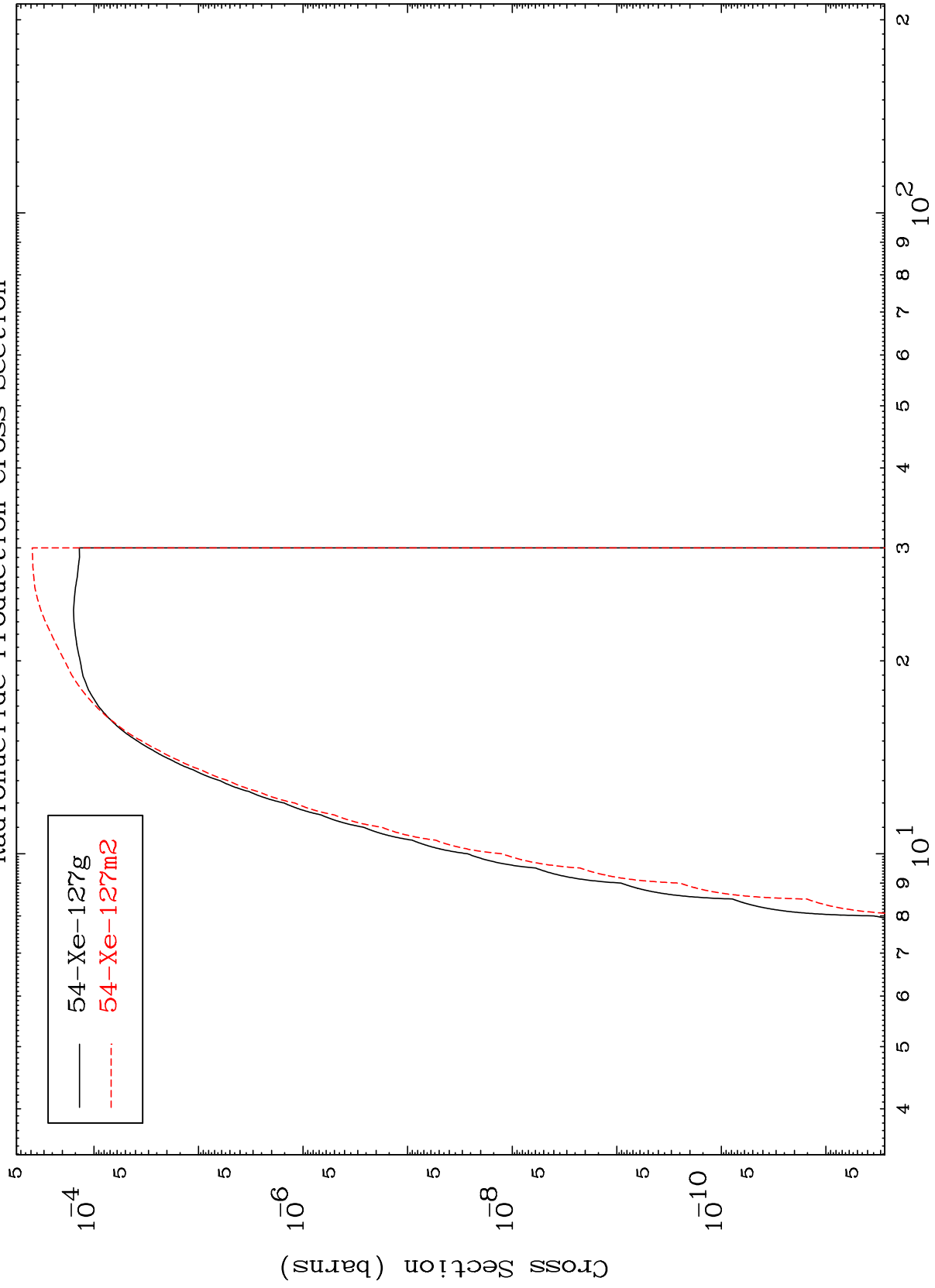
Incident Energy (MeV)

56-Ba-128

MAT 5619

56-Ba-128

(n,2p)
Radionuclide Production Cross Section



— 54-Xe-127g
- - - 54-Xe-127m2

134

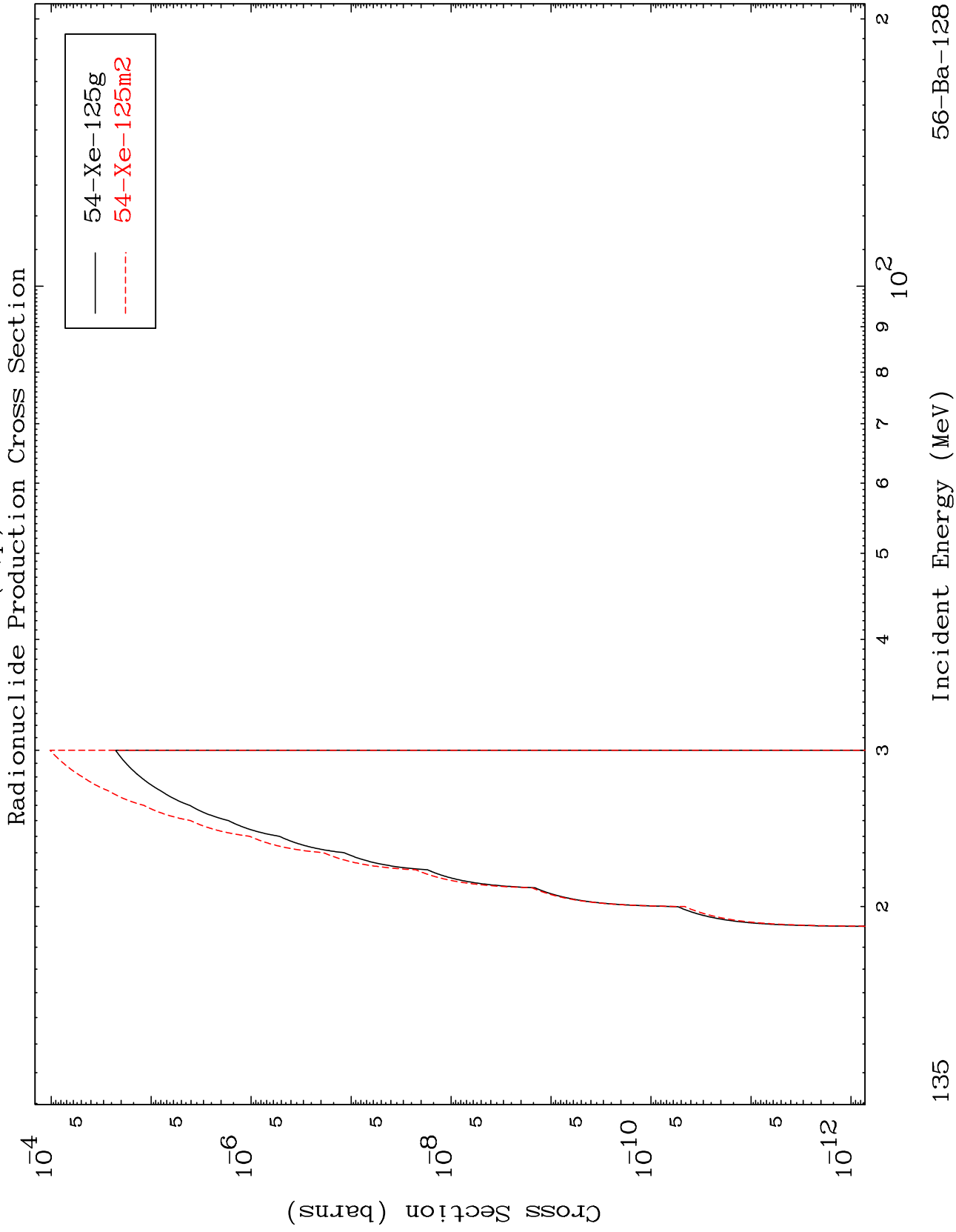
Incident Energy (MeV)

56-Ba-128

MAT 5619

(n,p) t

56-Ba-128



135

56-Ba-128