

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

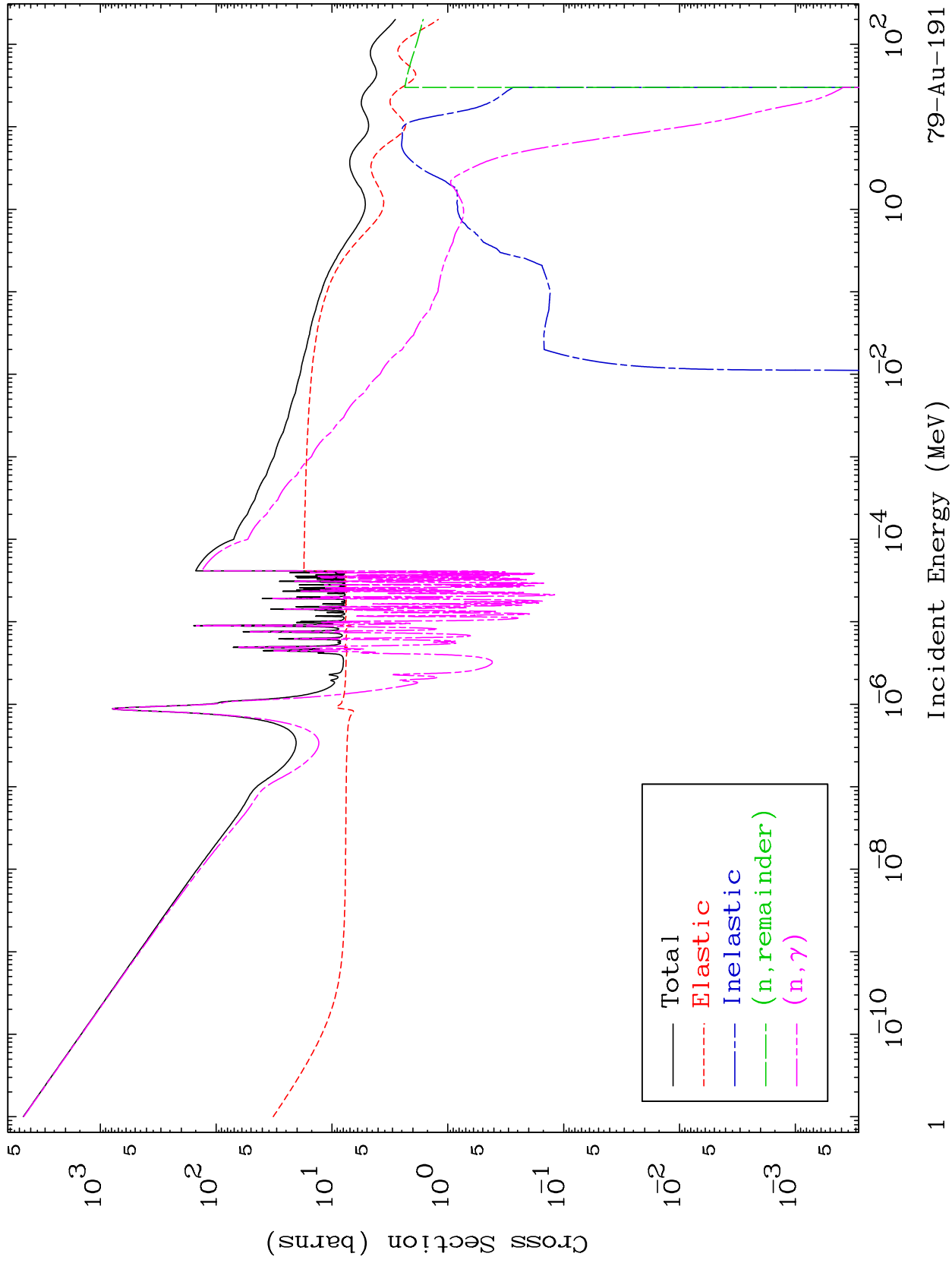
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7907

Major
293 Kelvin Cross Sections

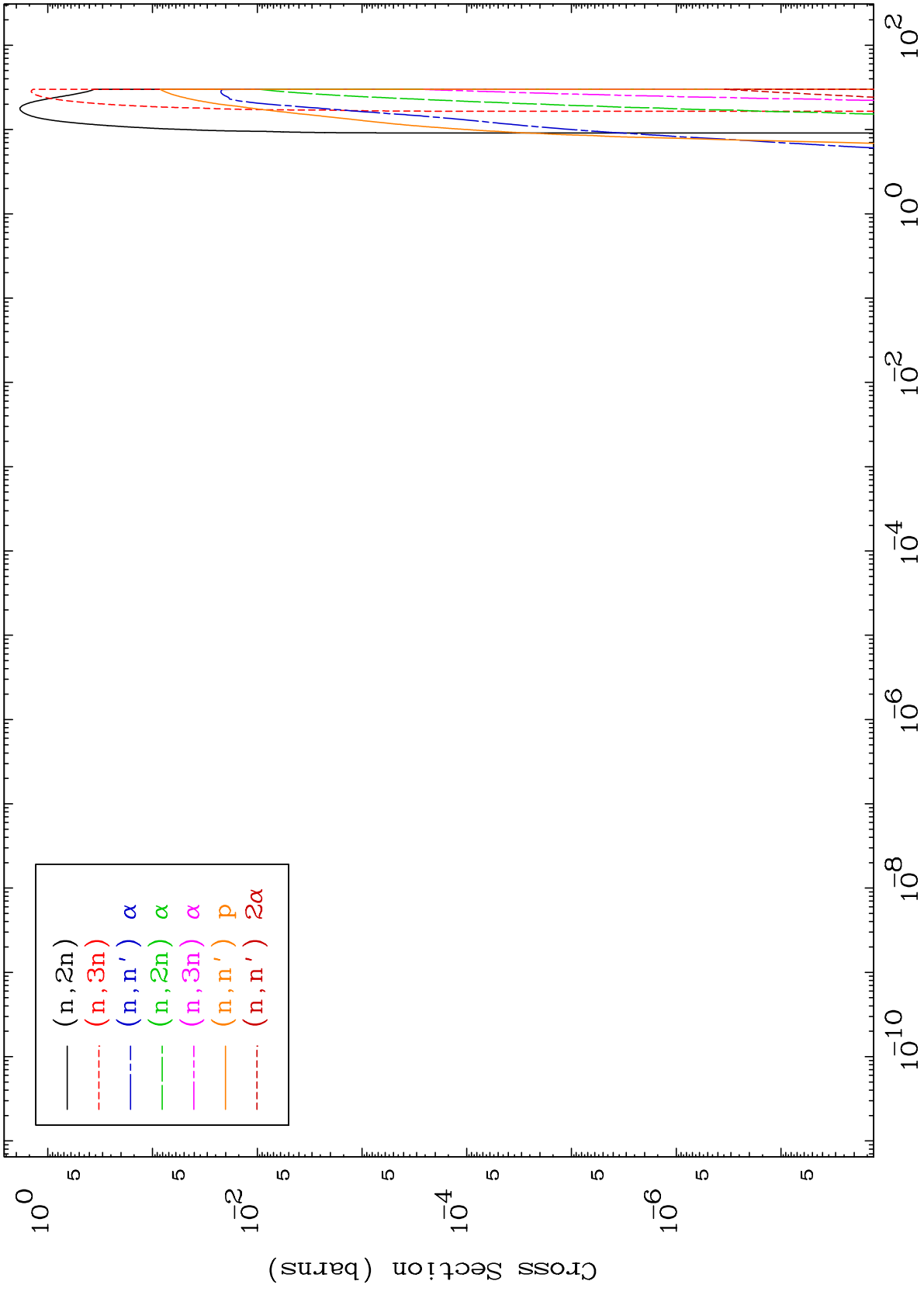
79-Au-191



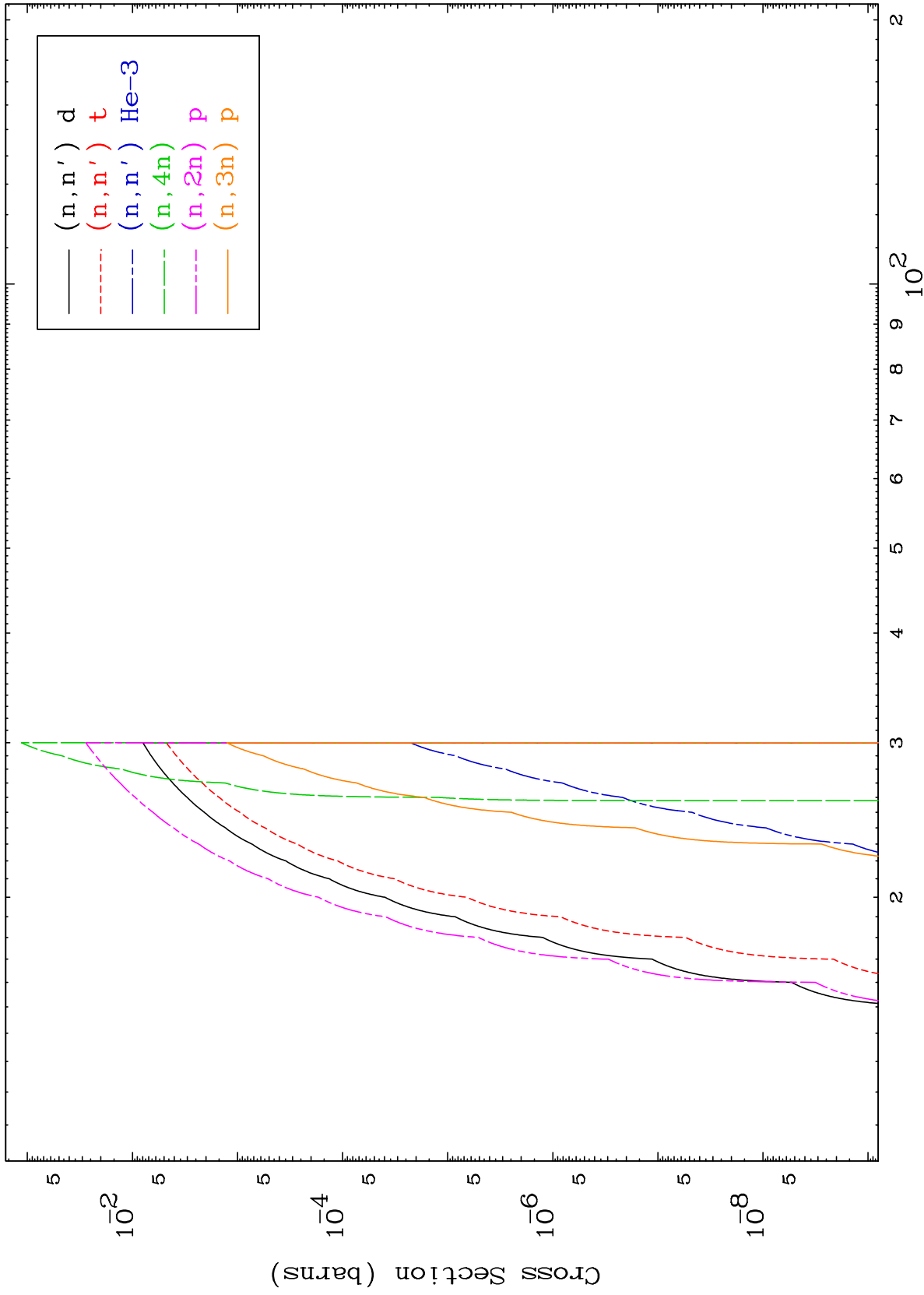
MAT 7907

Neutron Production
293 Kelvin Cross Sections

79-Au-191



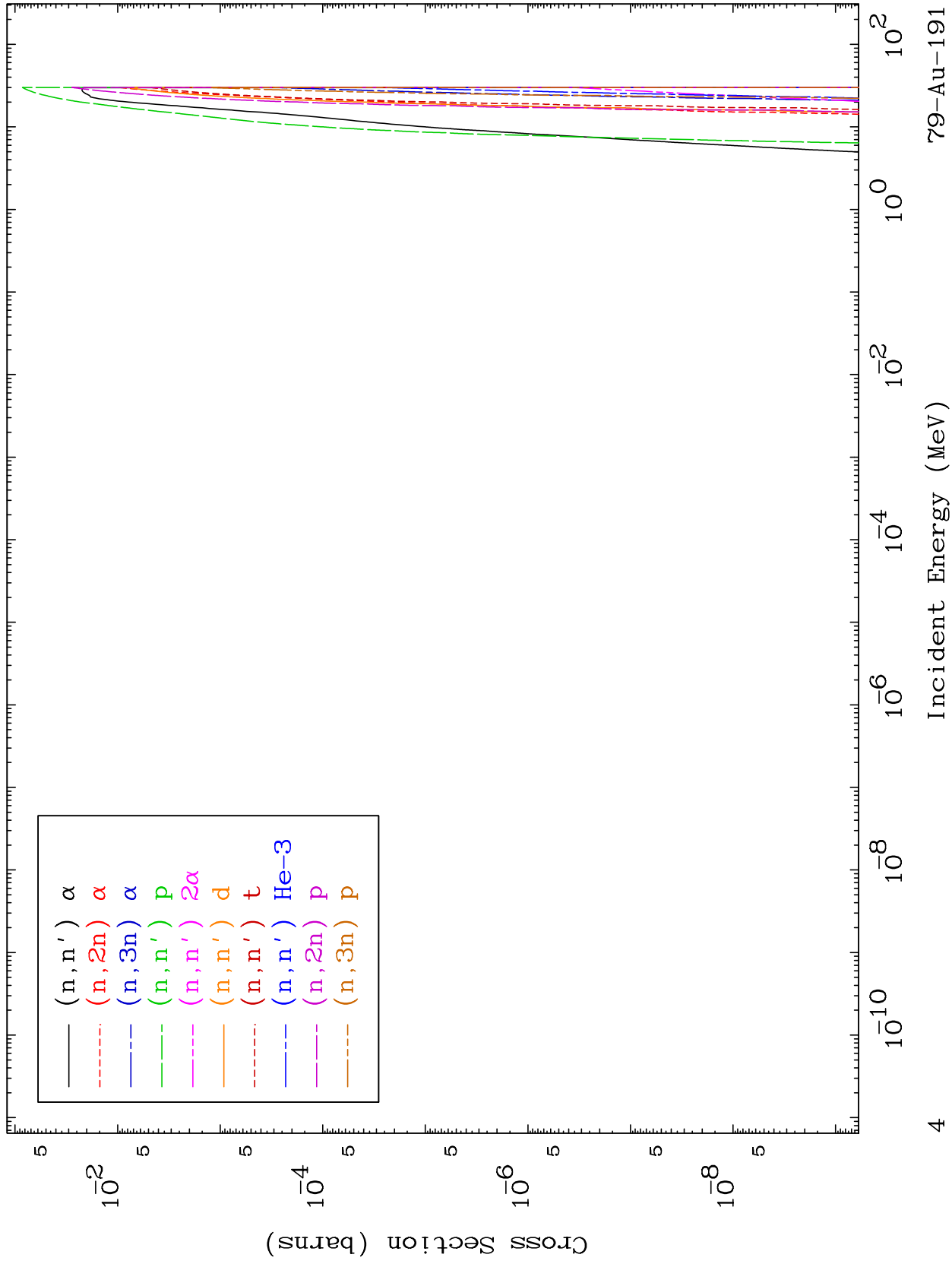
79-Au-191



MAT 7907

Charged Particle
293 Kelvin Cross Sections

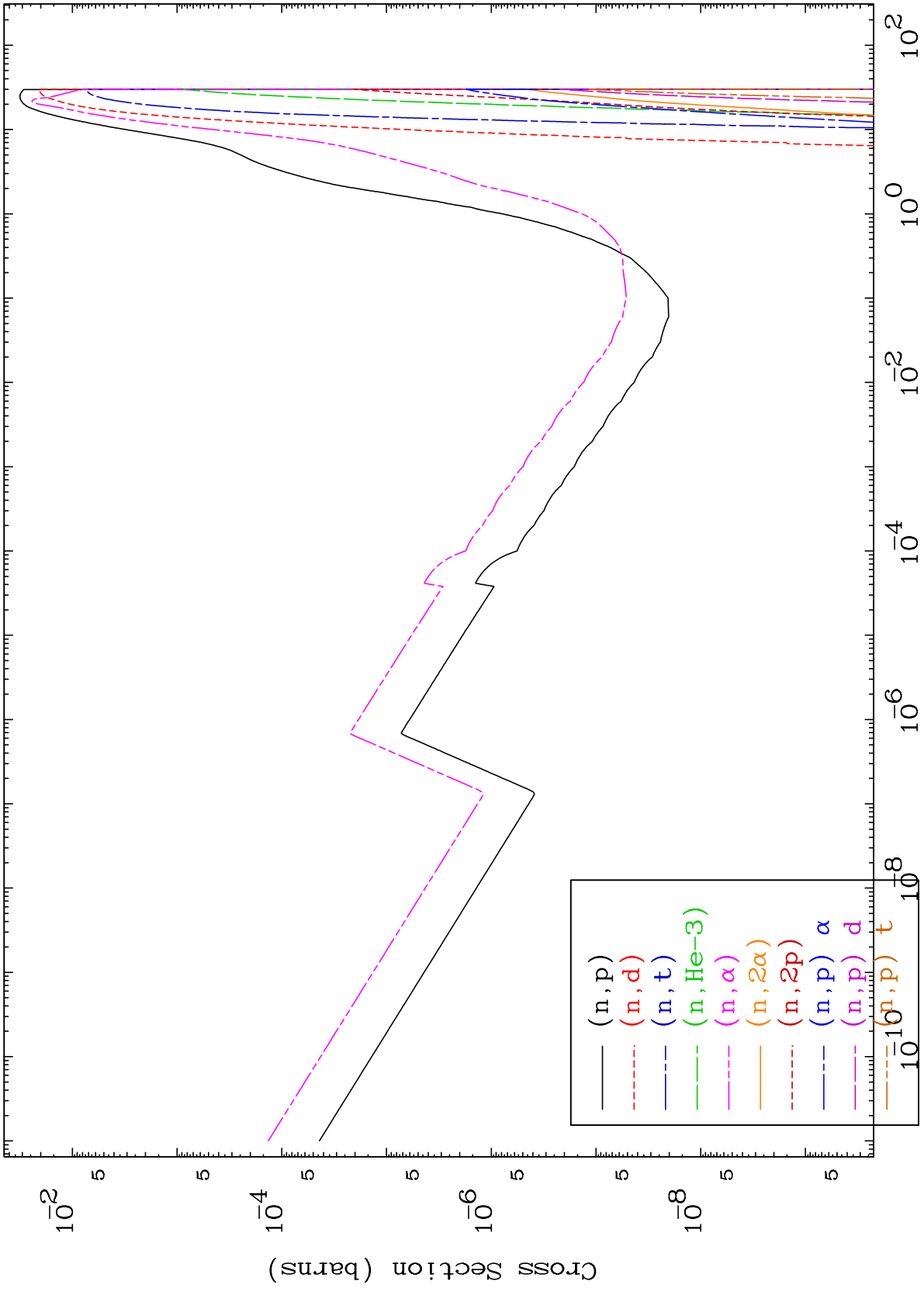
79-Au-191



MAT 7907

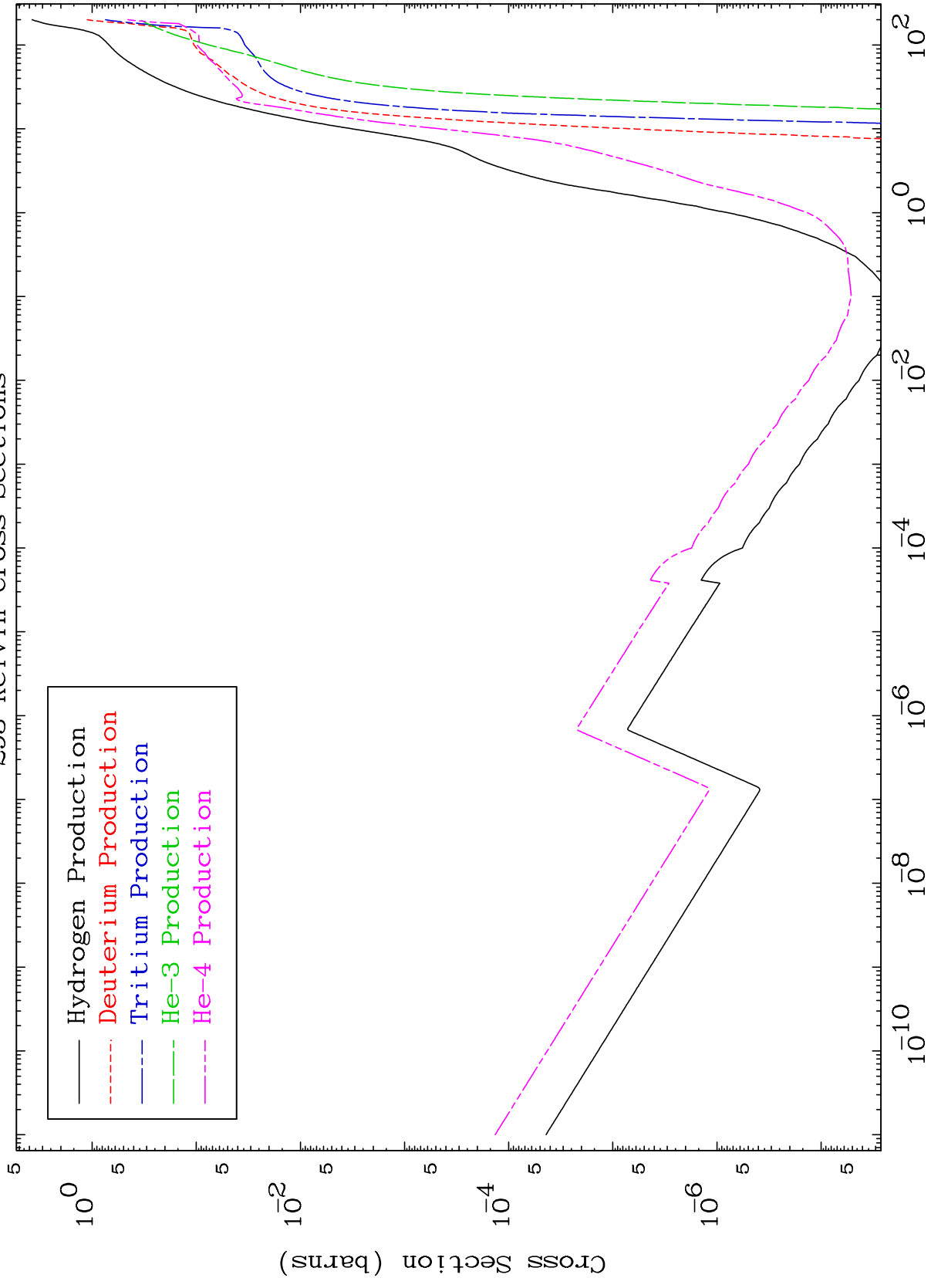
Charged Particle
293 Kelvin Cross Sections

79-Au-191



5

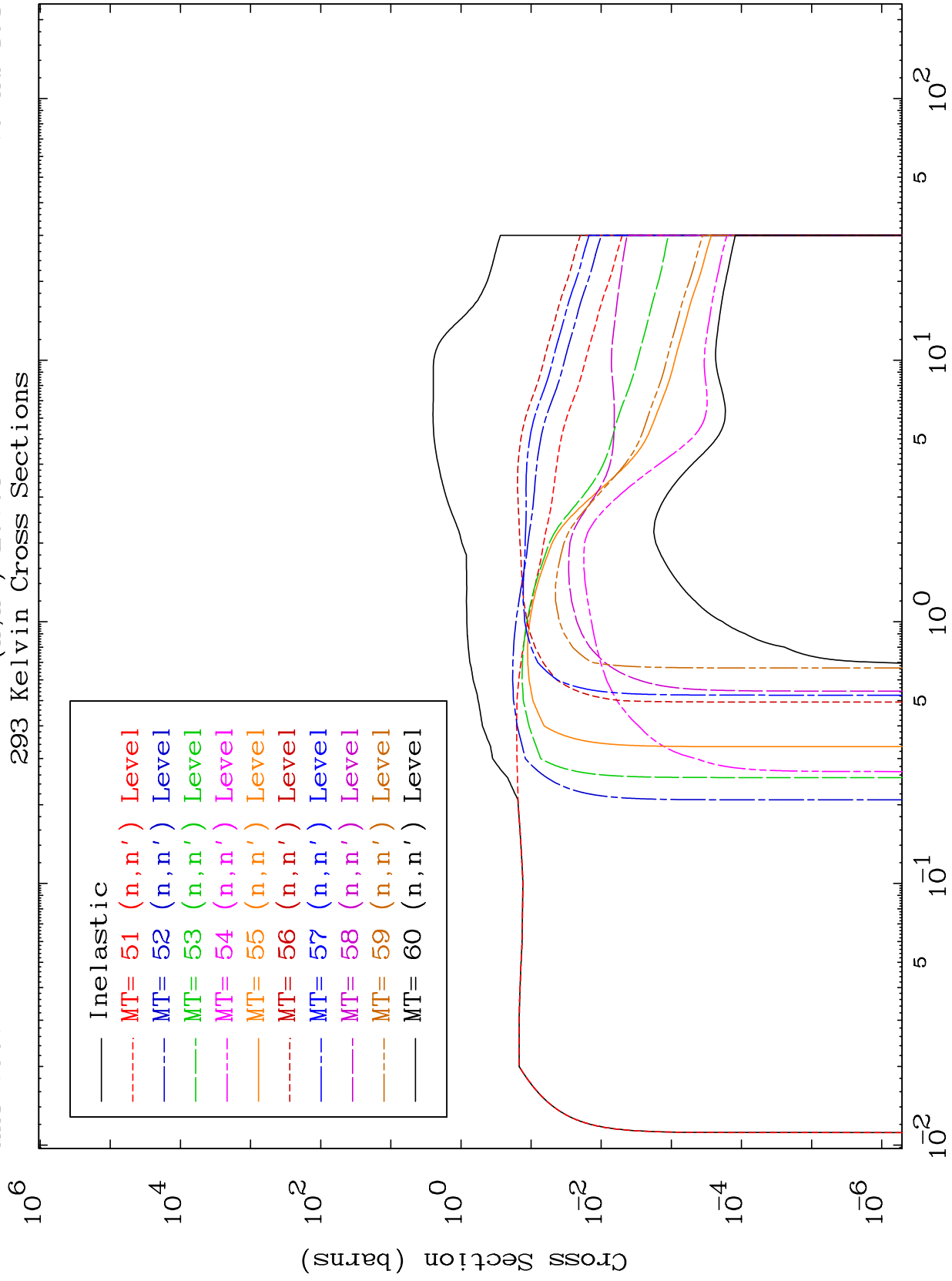
79-Au-191



MAT 7907

(n,n') Level
293 Kelvin Cross Sections

79-Au-191



79-Au-191

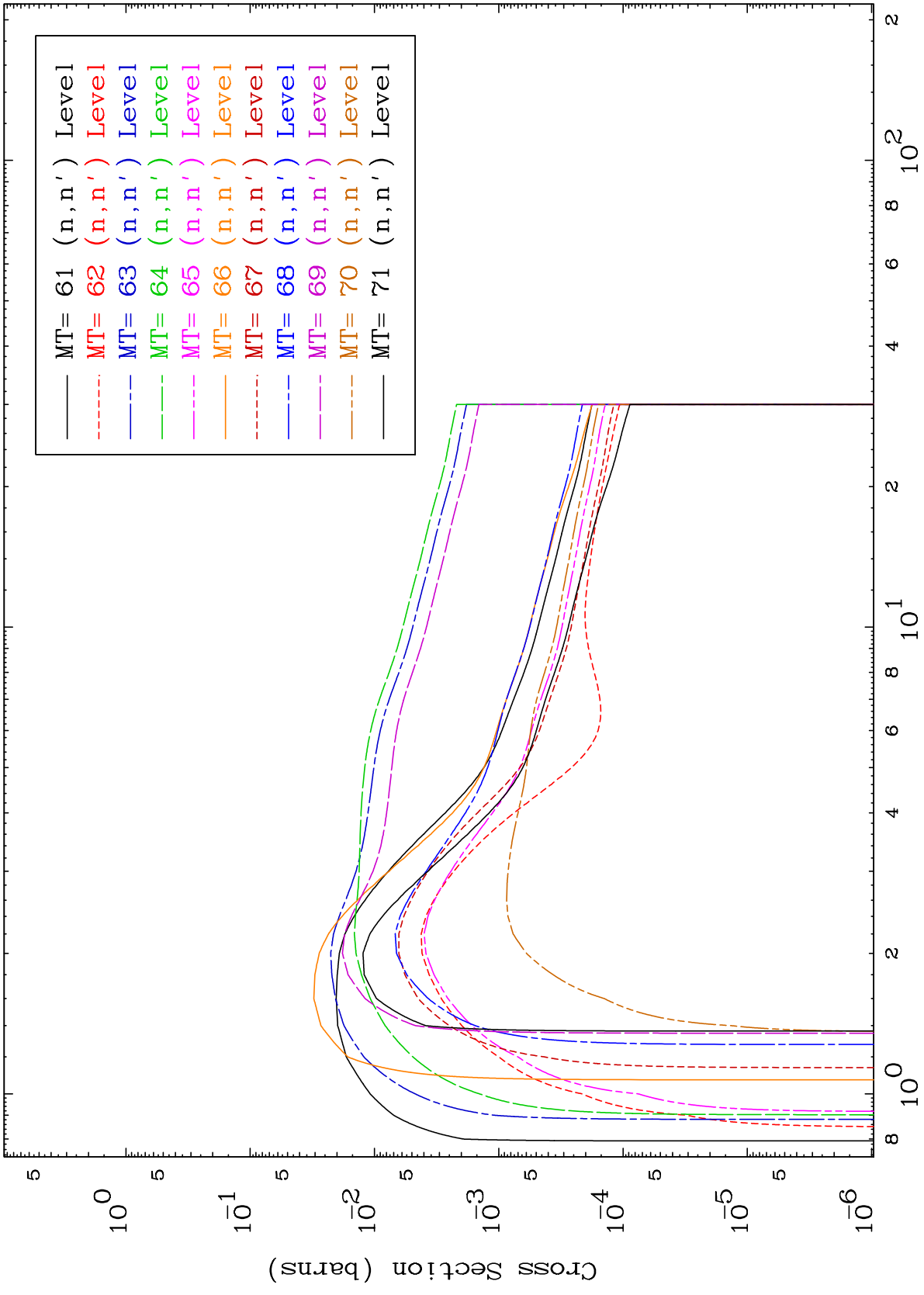
Incident Energy (MeV)

7

MAT 7907

(n,n') Level
293 Kelvin Cross Sections

79-Au-191



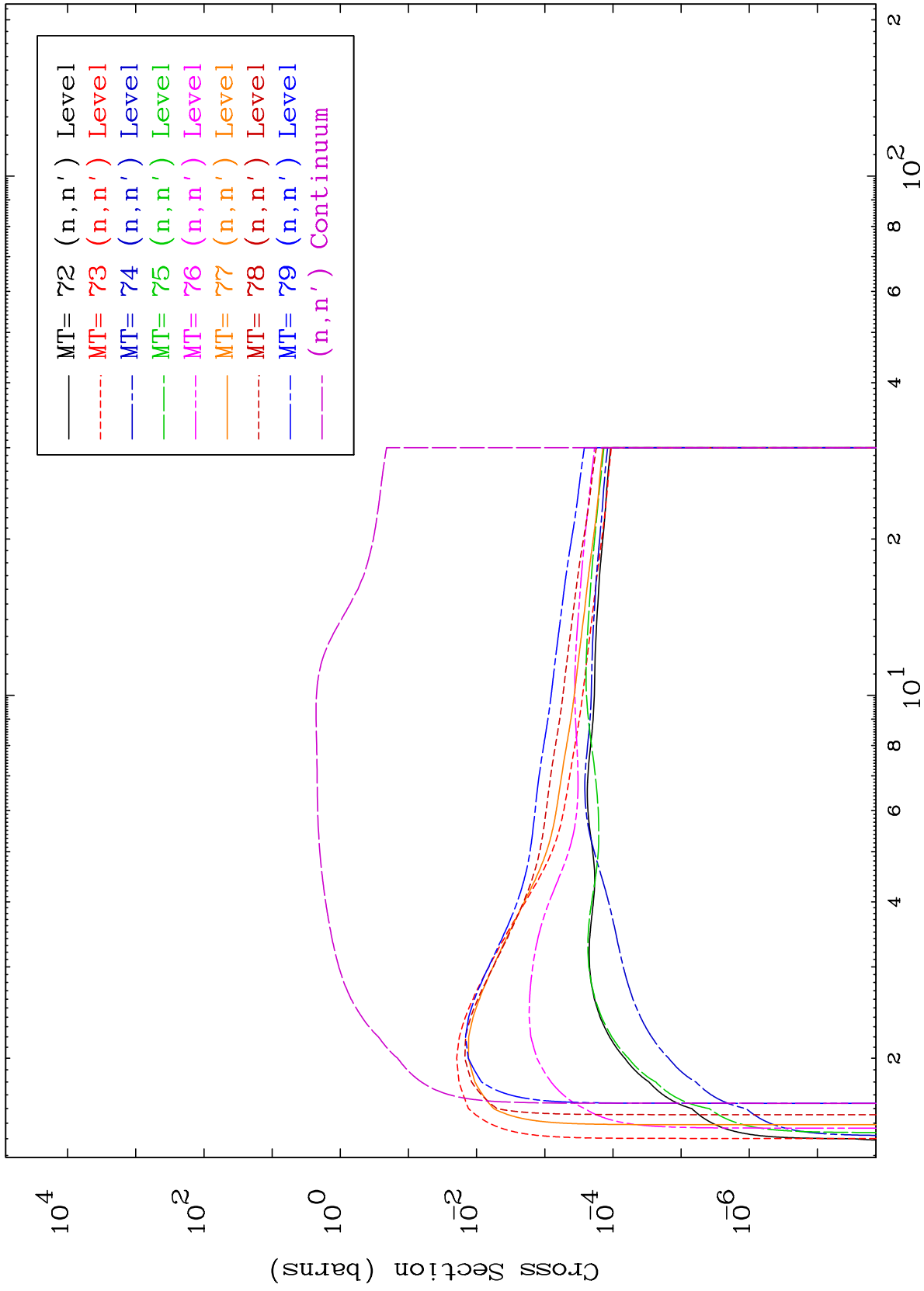
Incident Energy (MeV)

79-Au-191

MAT 7907

(n,n') Level
293 Kelvin Cross Sections

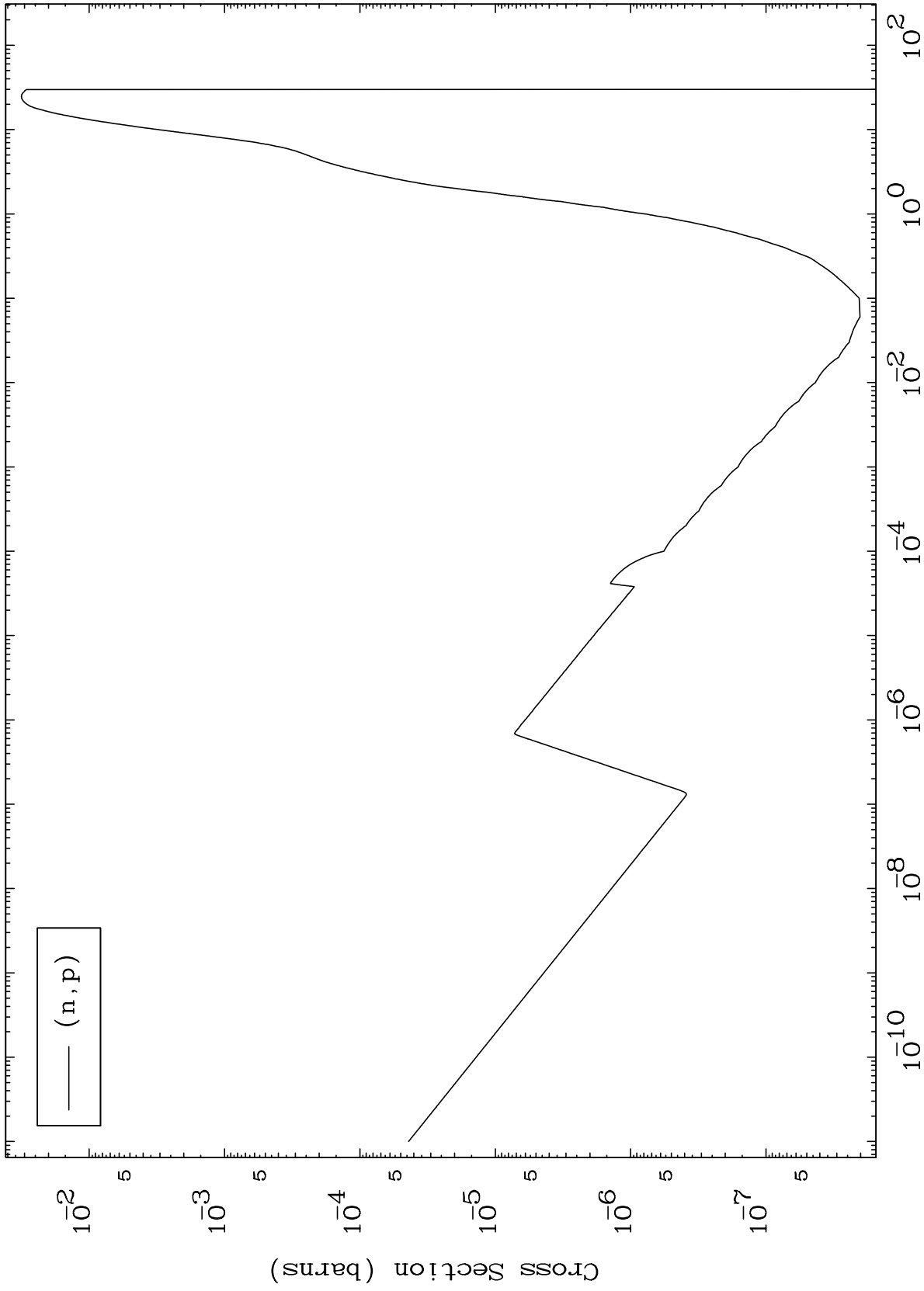
79-Au-191



MAT 7907

(n,p) Levels
293 Kelvin Cross Sections

79-Au-191



10

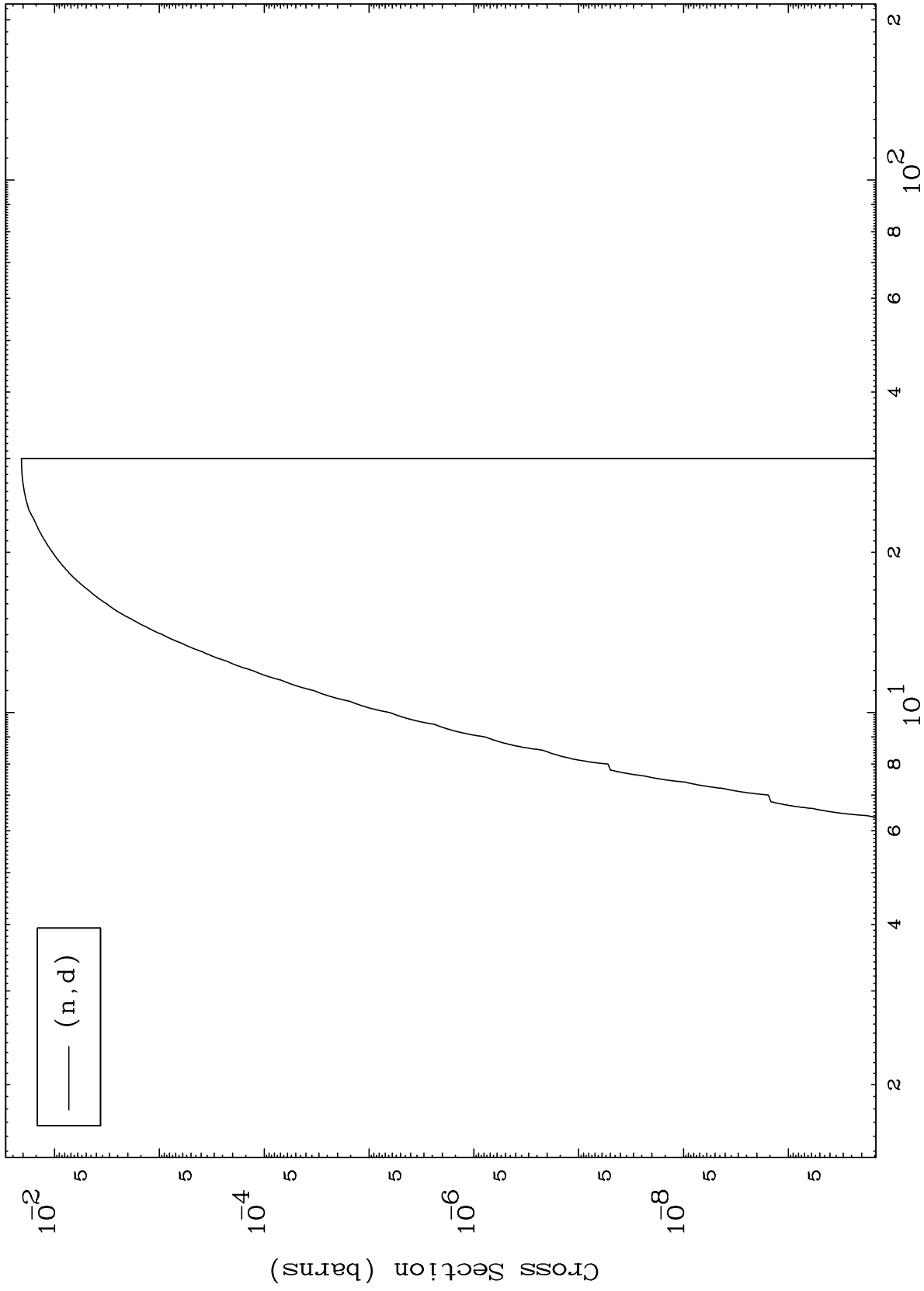
Incident Energy (MeV)

79-Au-191

MAT 7907

(n,d) Levels
293 Kelvin Cross Sections

79-Au-191



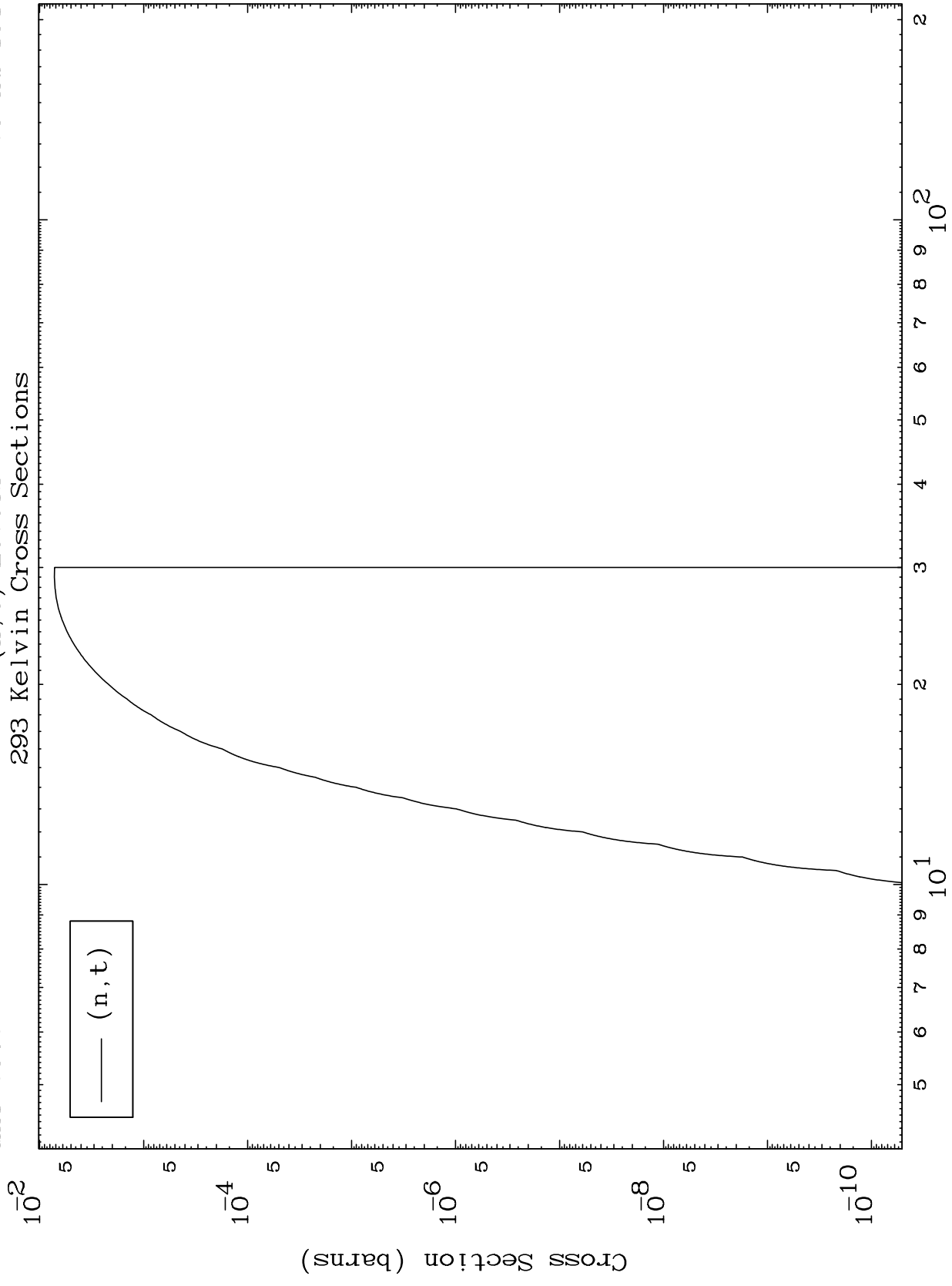
11

79-Au-191

MAT 7907

(n,t) Levels
293 Kelvin Cross Sections

79-Au-191



12

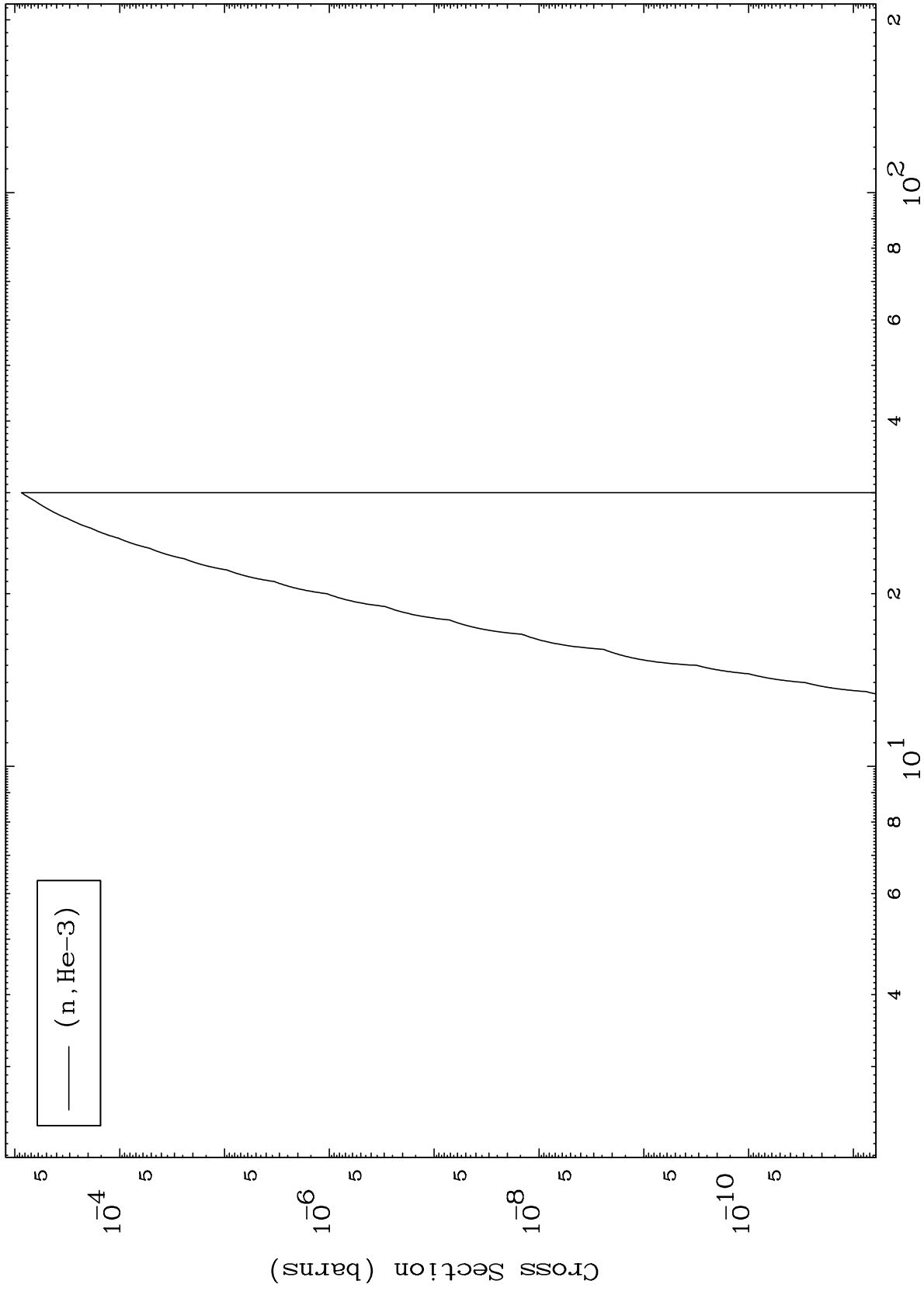
Incident Energy (MeV)

79-Au-191

MAT 7907

(n,He3) Levels
293 Kelvin Cross Sections

79-Au-191



13

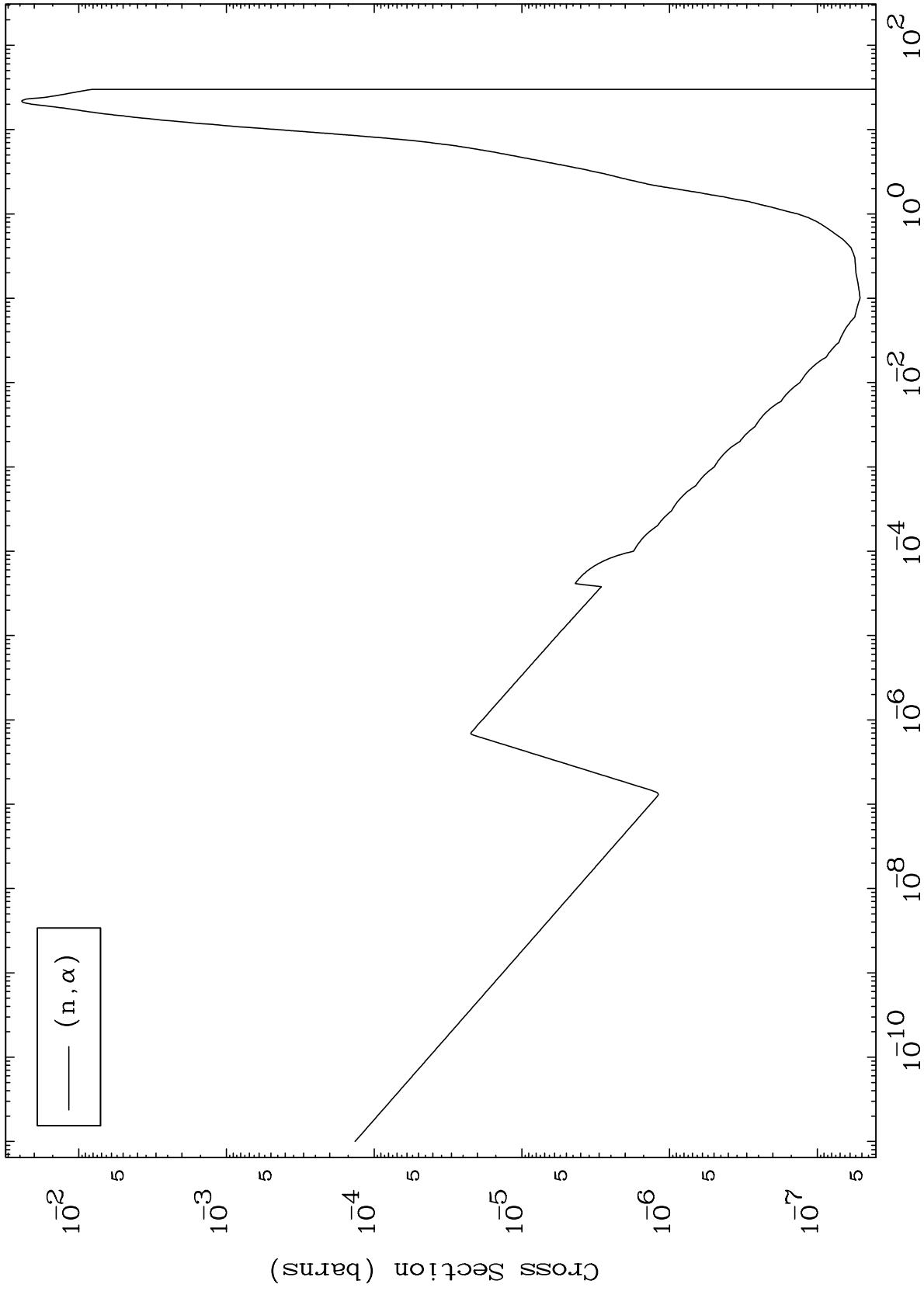
Incident Energy (MeV)

79-Au-191

MAT 7907

(n,α) Levels
293 Kelvin Cross Sections

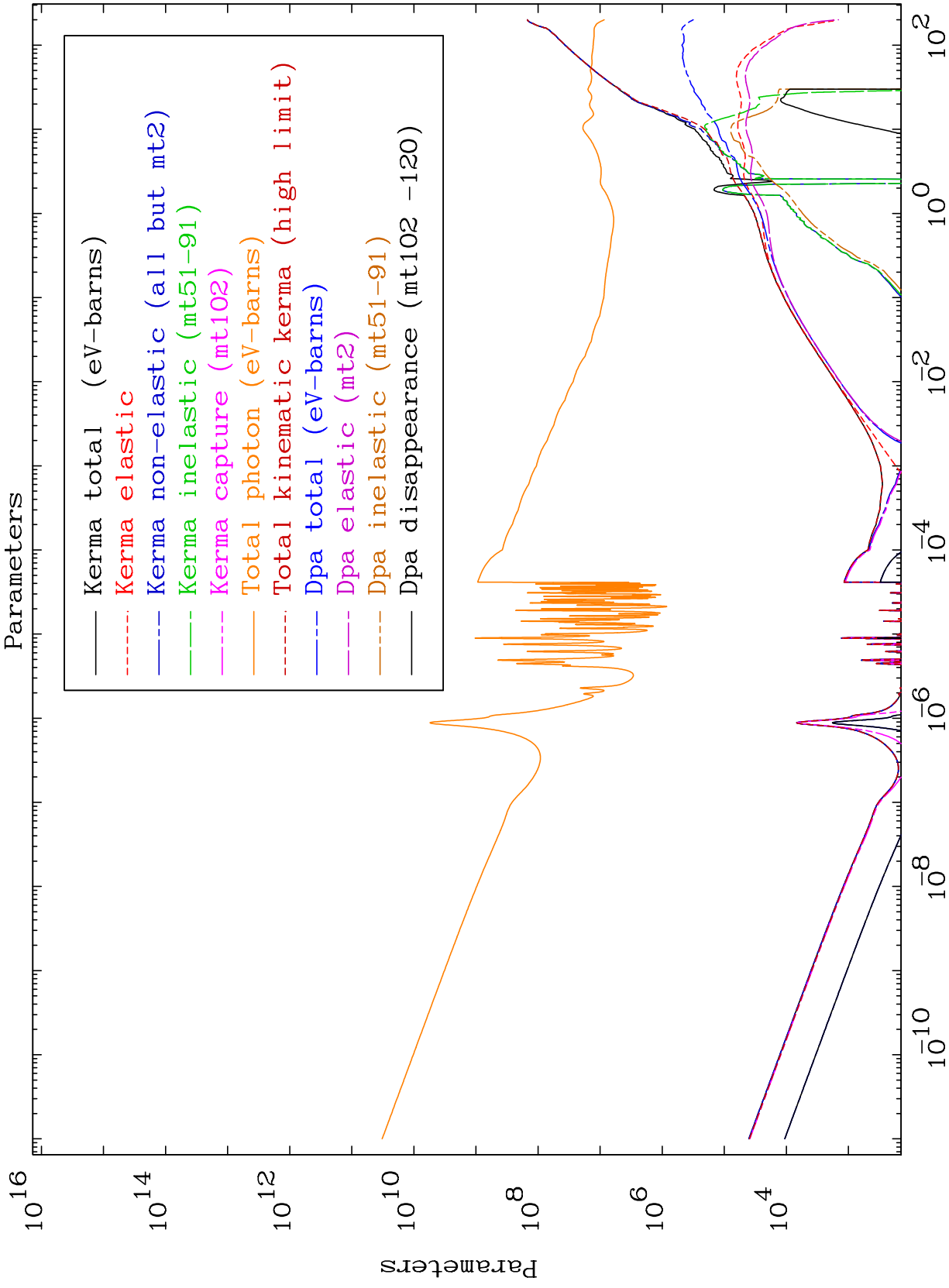
79-Au-191



14

Incident Energy (MeV)

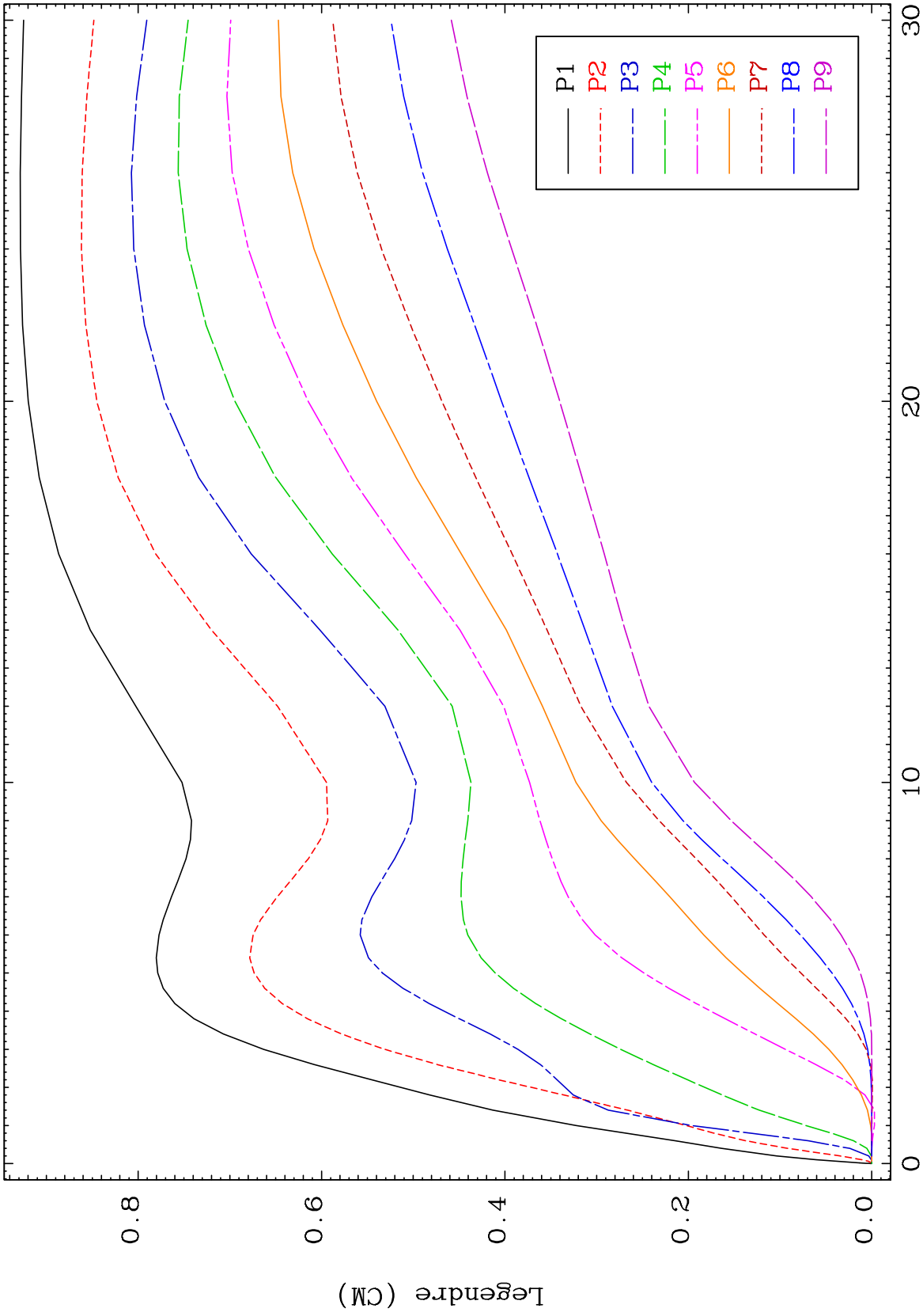
79-Au-191



MAT 7907

Elastic Legendre Coefficients

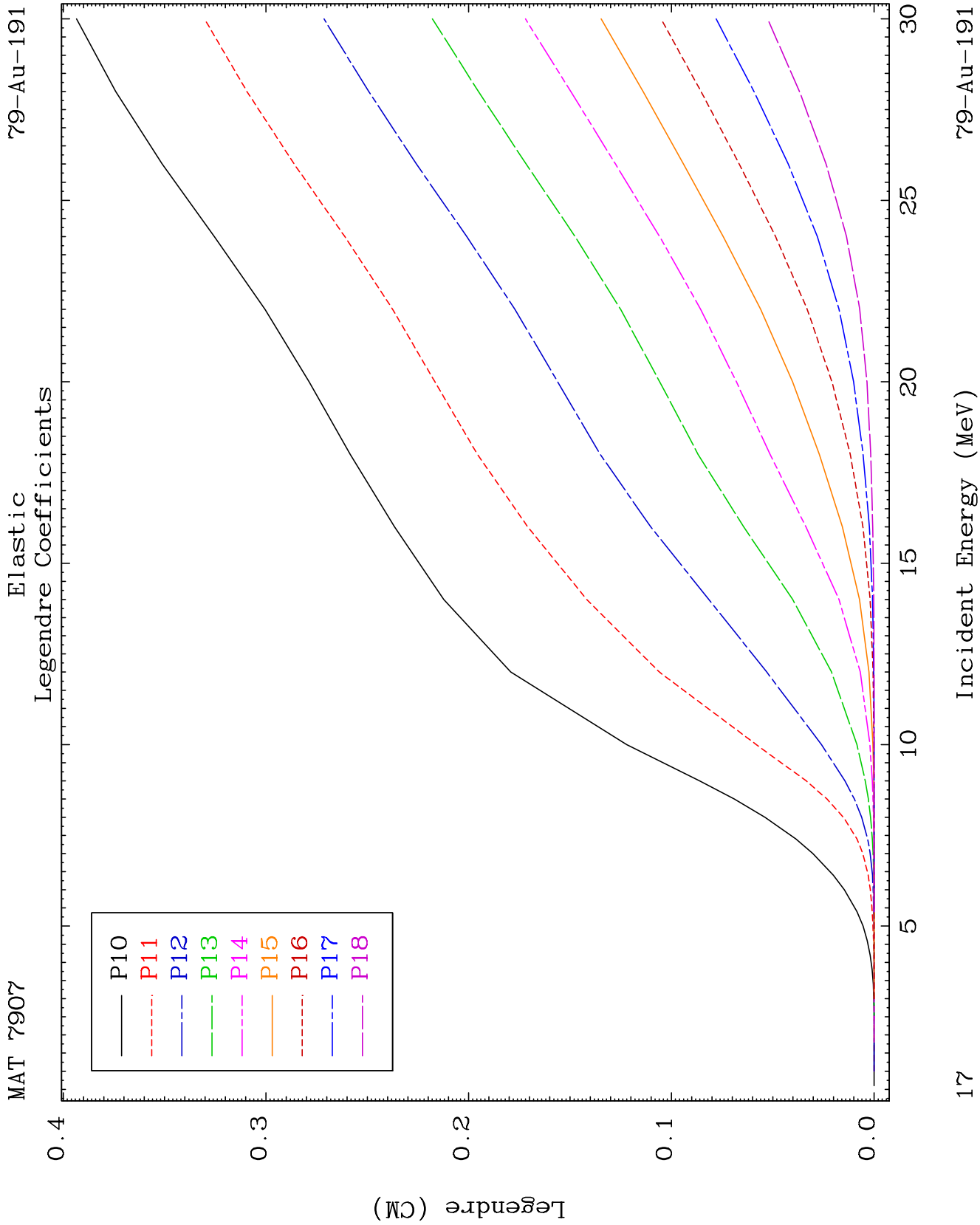
⁷⁹Au-¹⁹¹



16

Incident Energy (MeV)

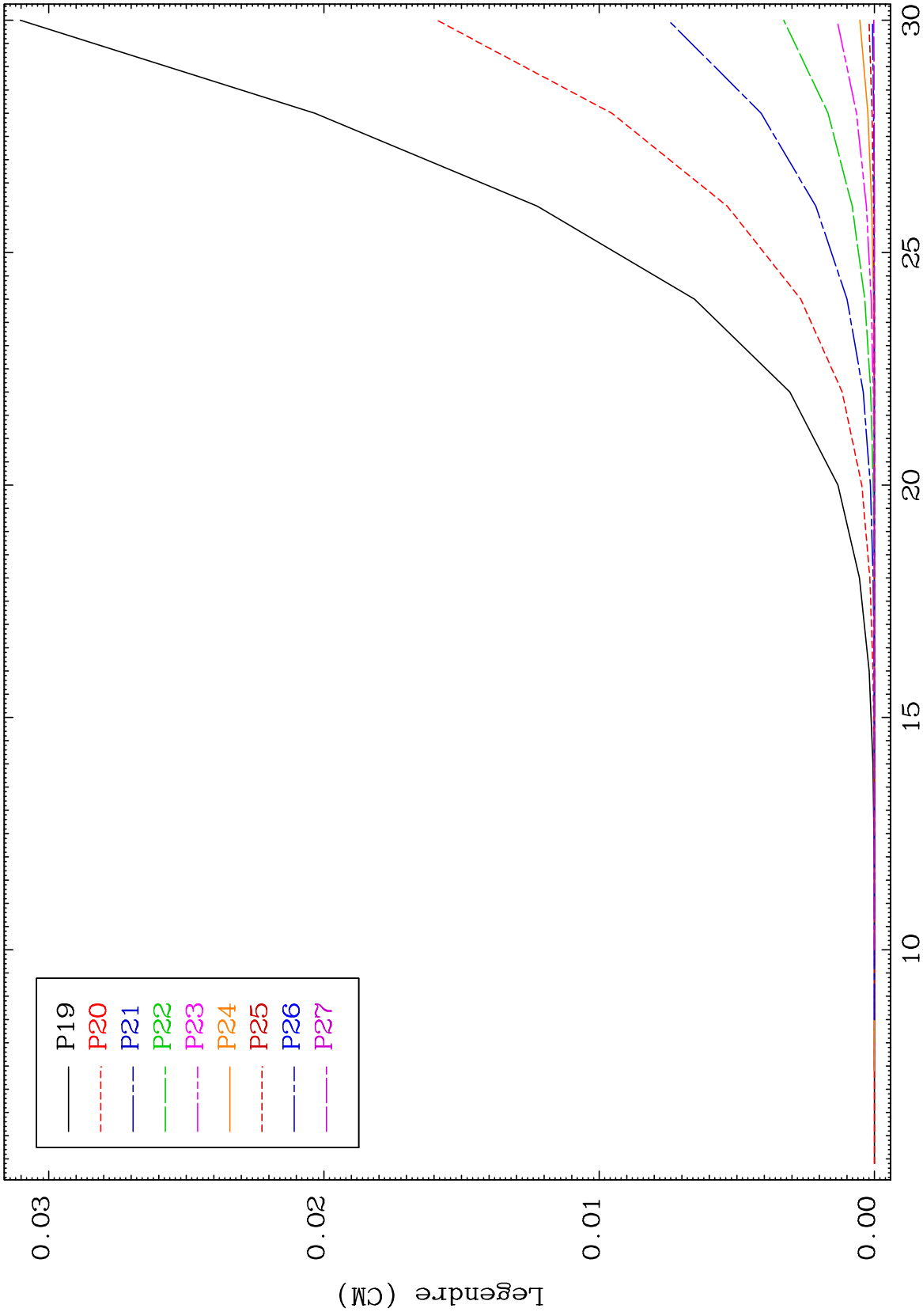
⁷⁹Au-¹⁹¹



MAT 7907

Elastic Legendre Coefficients

79-Au-191



18

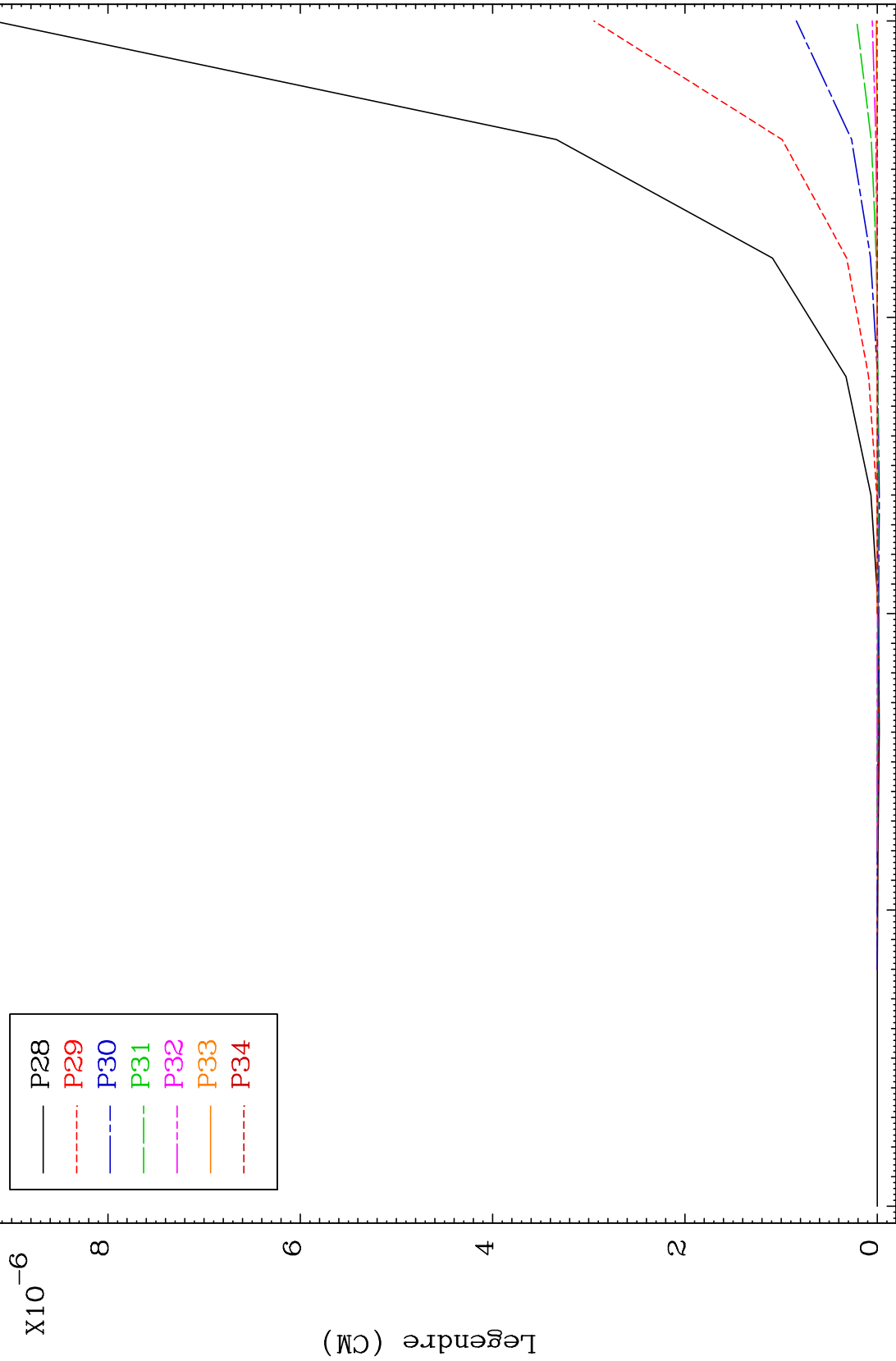
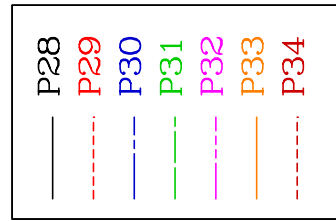
Incident Energy (MeV)

79-Au-191

MAT 7907

Elastic Legendre Coefficients

79-Au-191



10

15

20

25

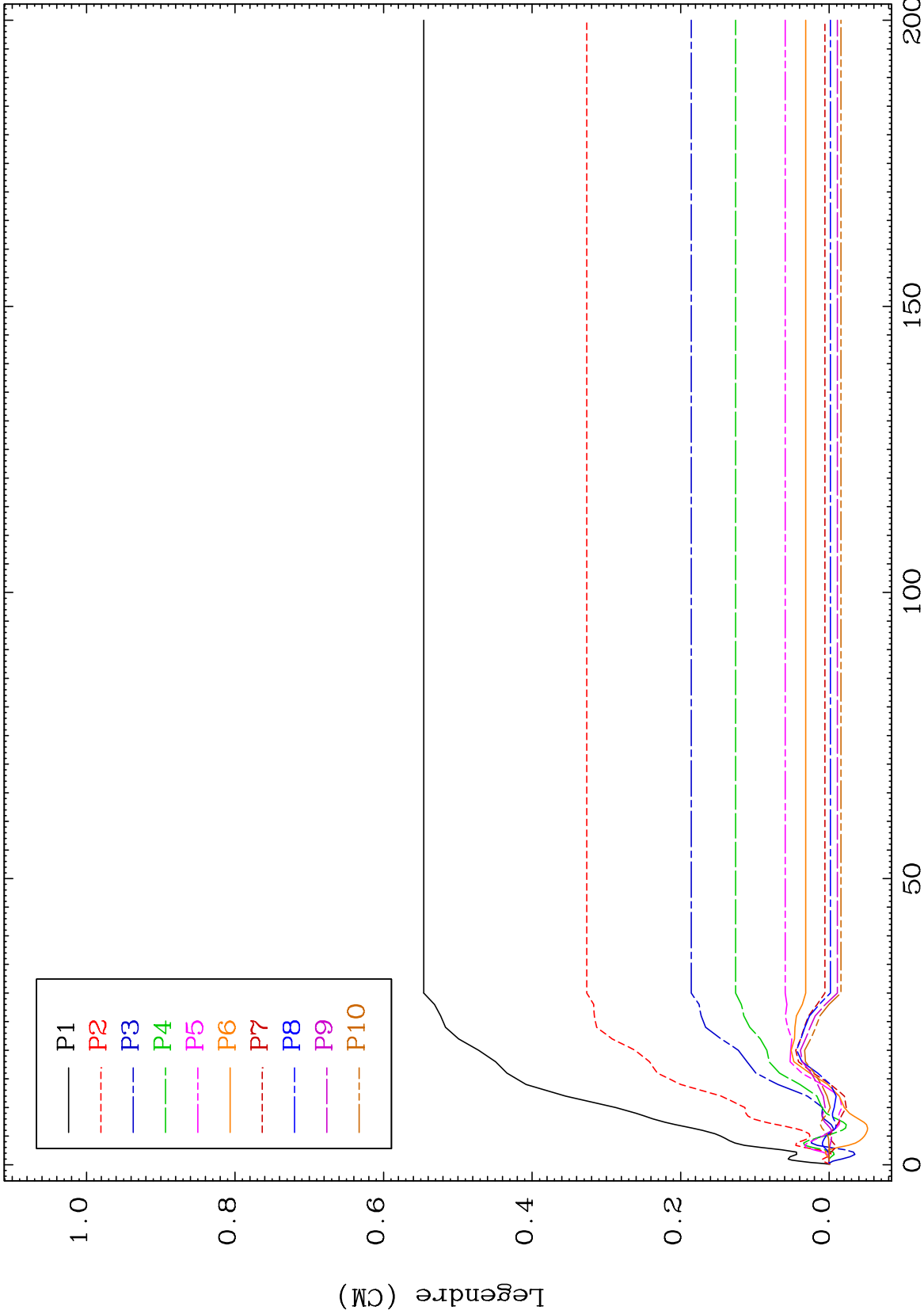
30

79-Au-191

MAT 7907

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

79-Au-191



79-Au-191

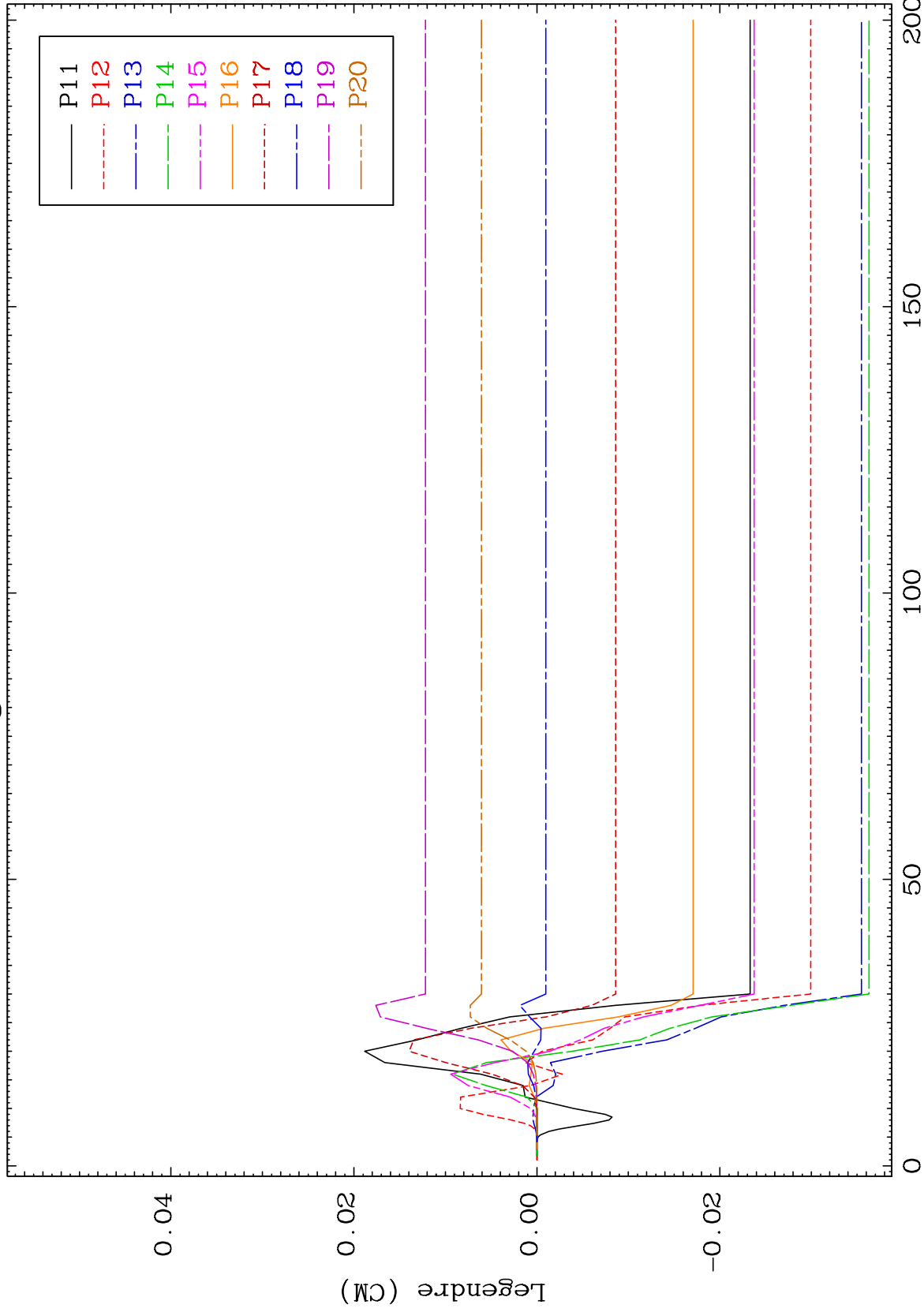
Incident Energy (MeV)

20

MAT 7907

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

79-Au-191



21

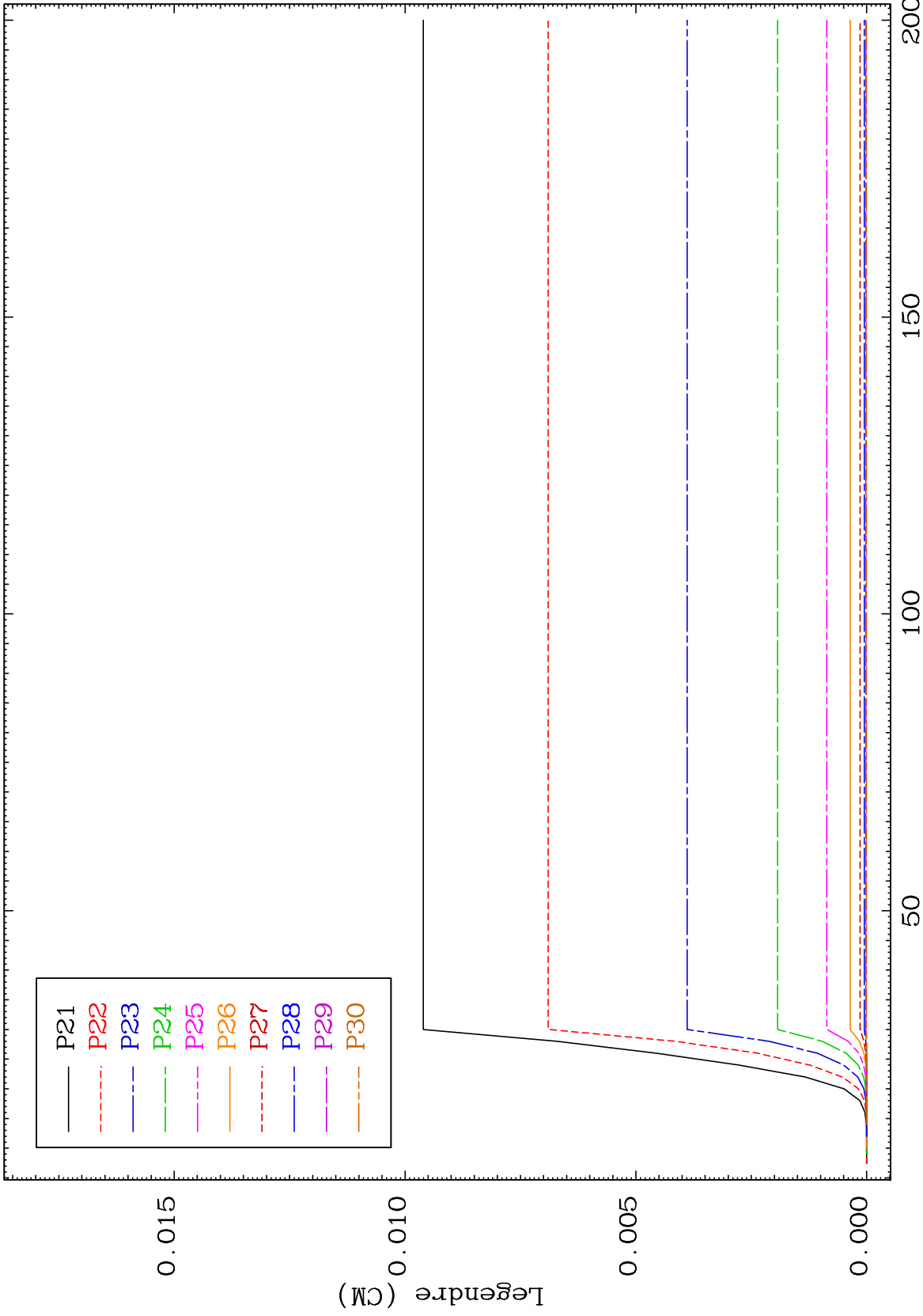
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



22

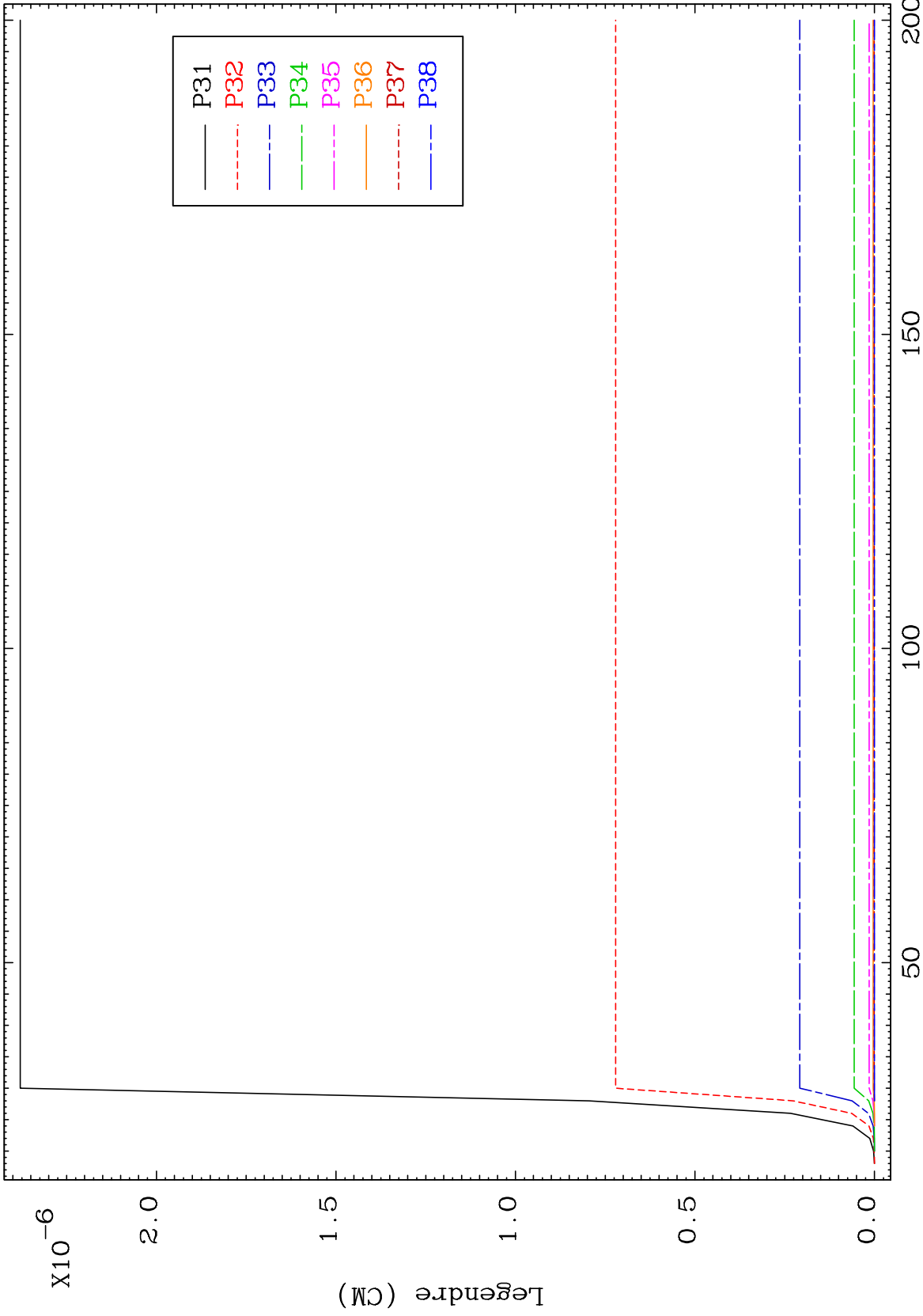
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



23

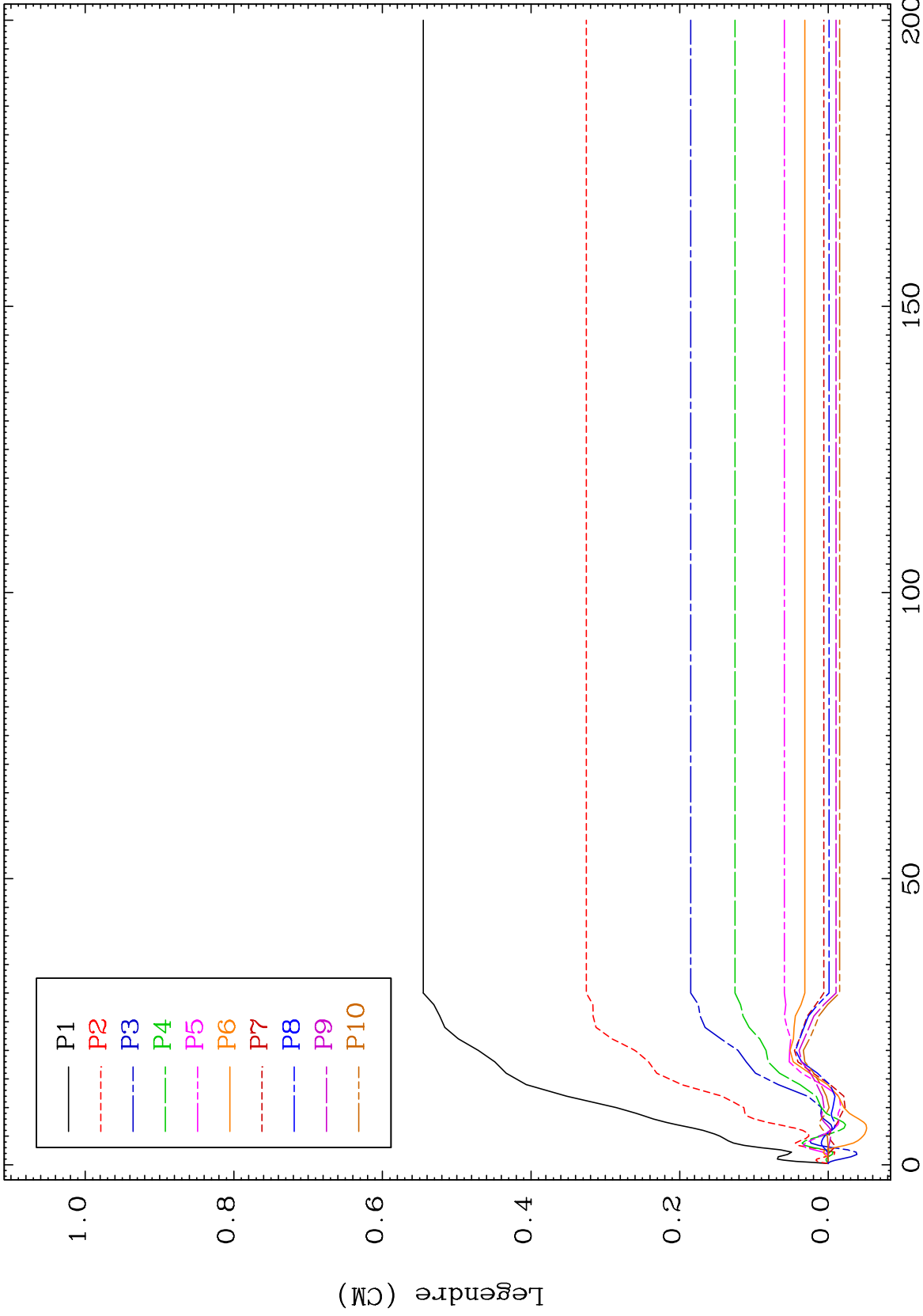
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



24

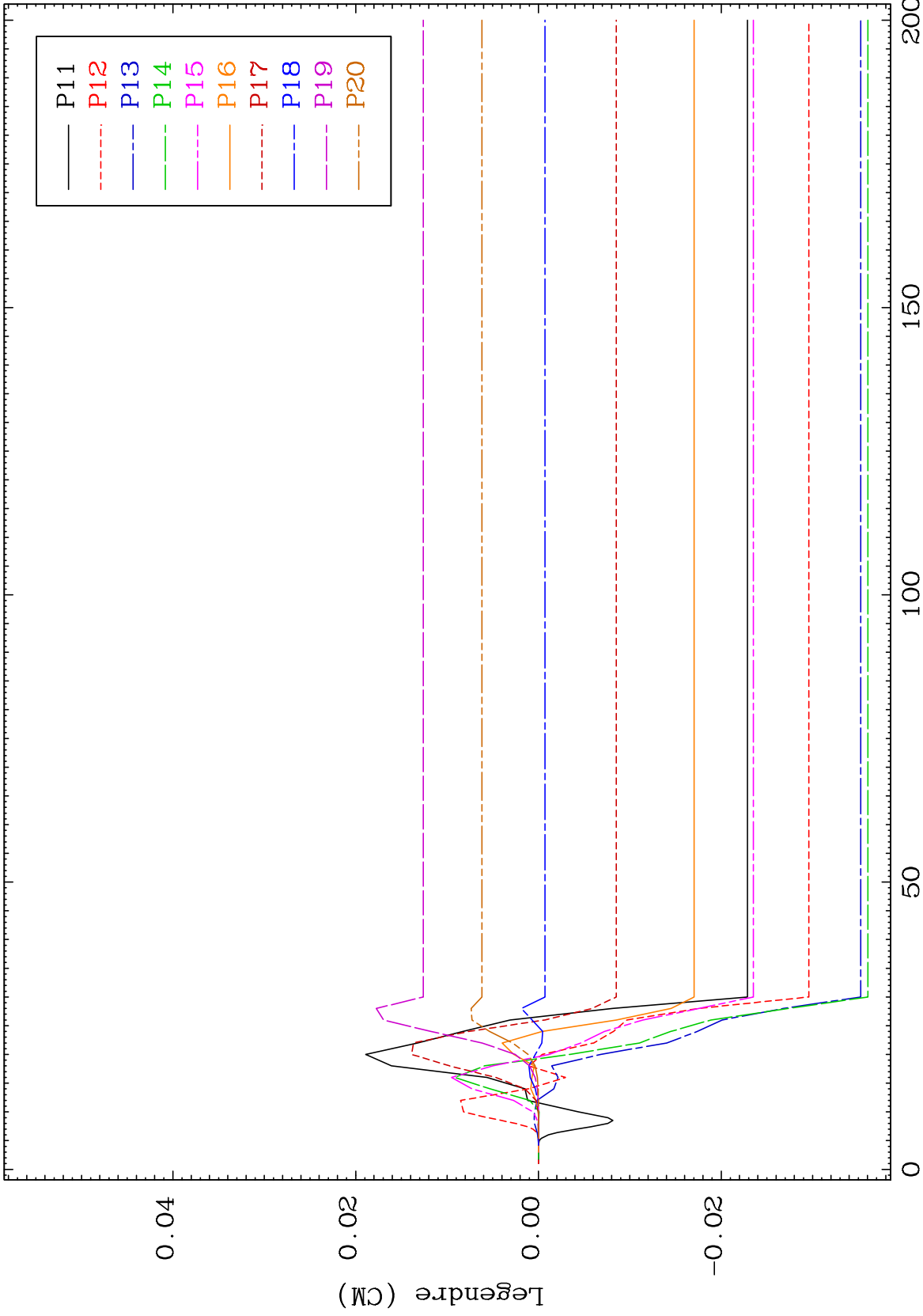
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



25

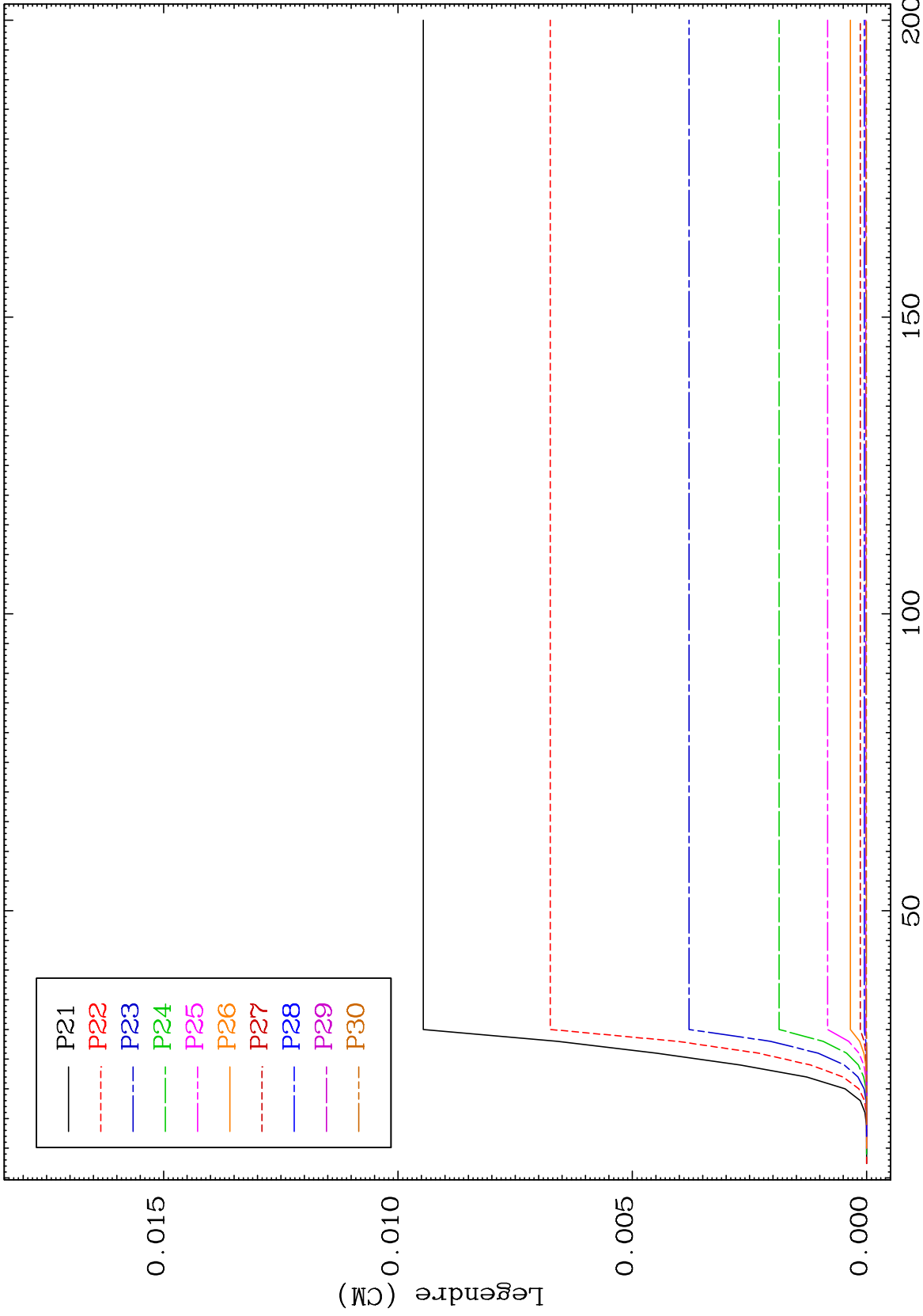
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



26

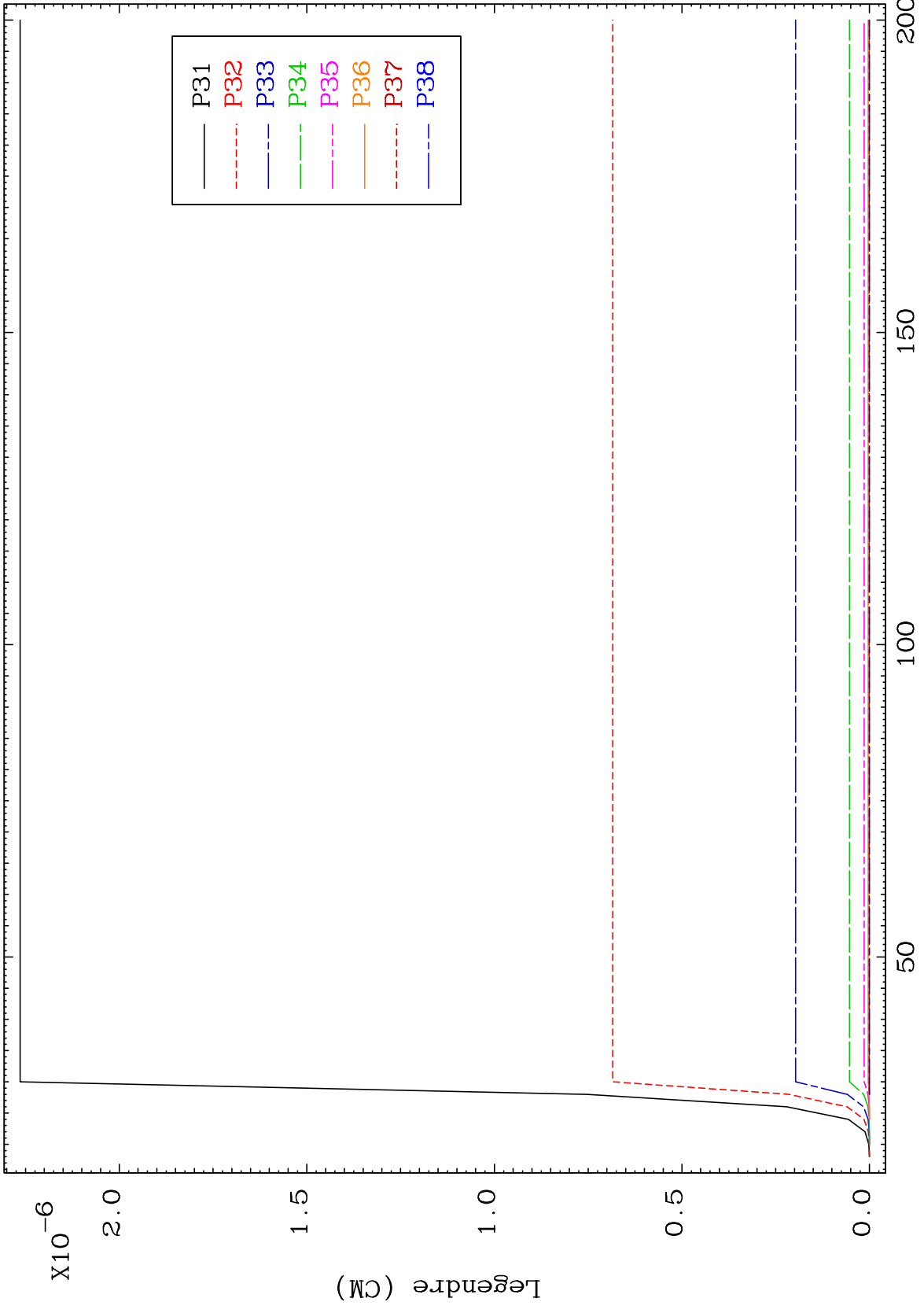
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



27

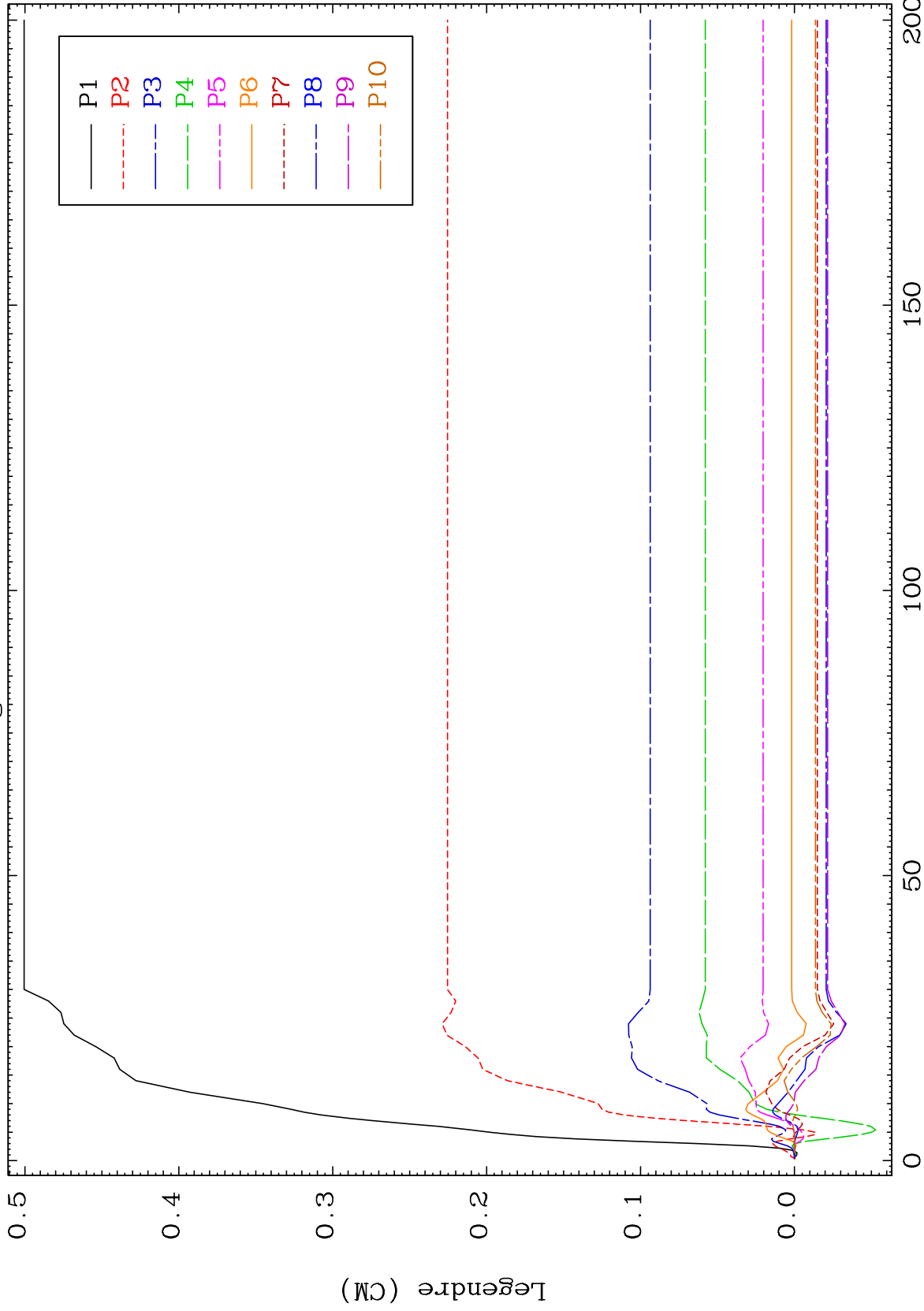
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



28

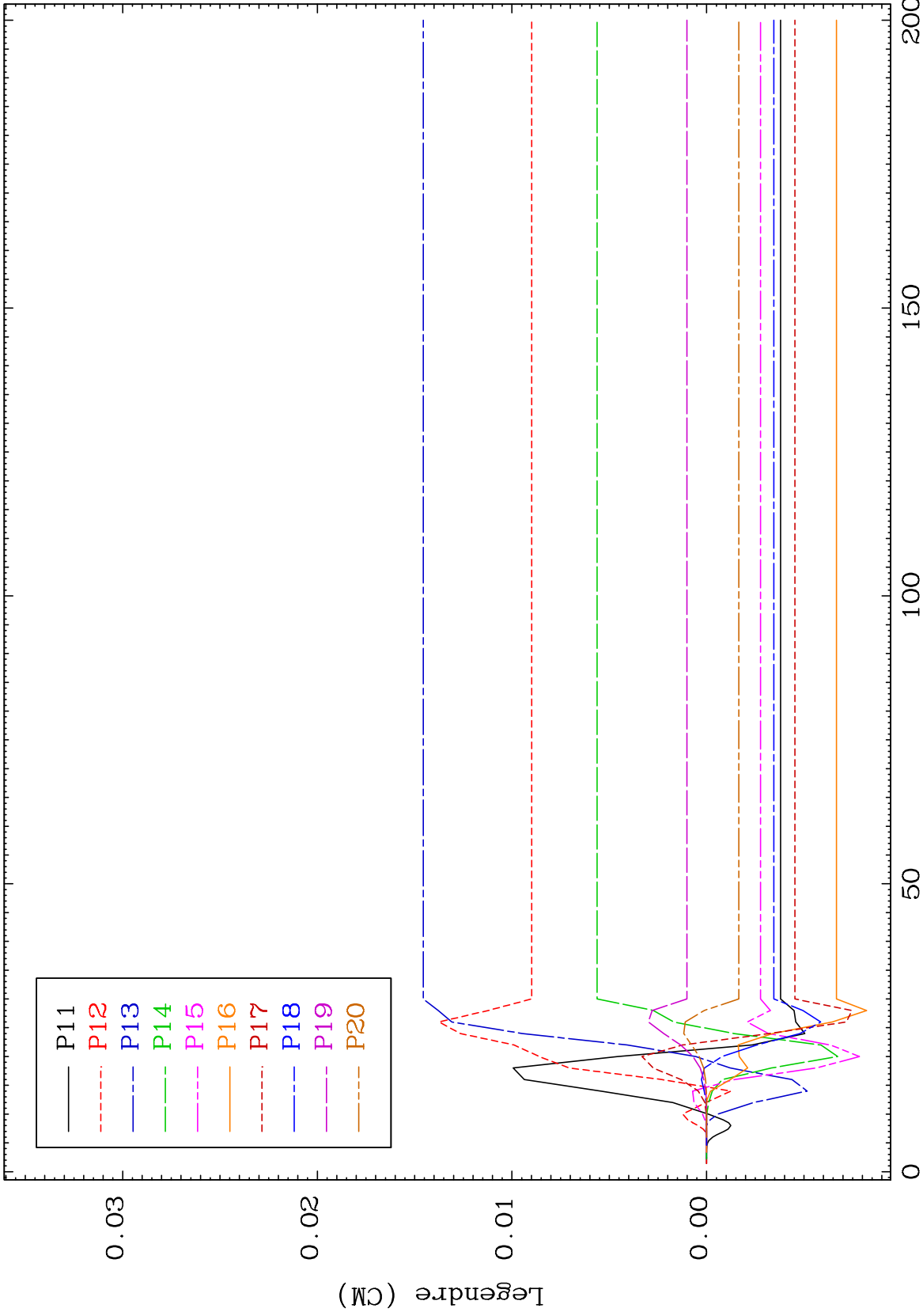
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



29

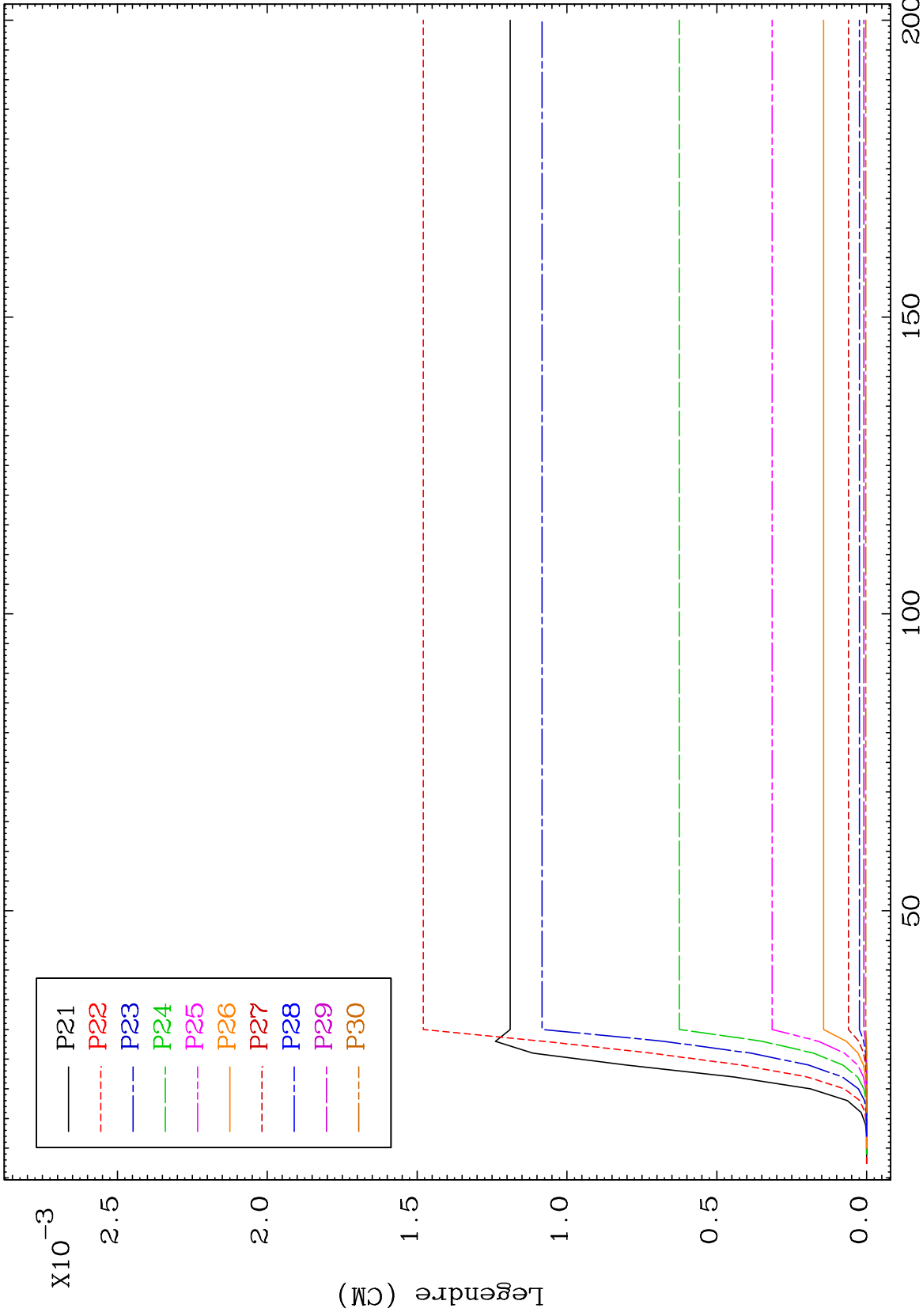
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



30

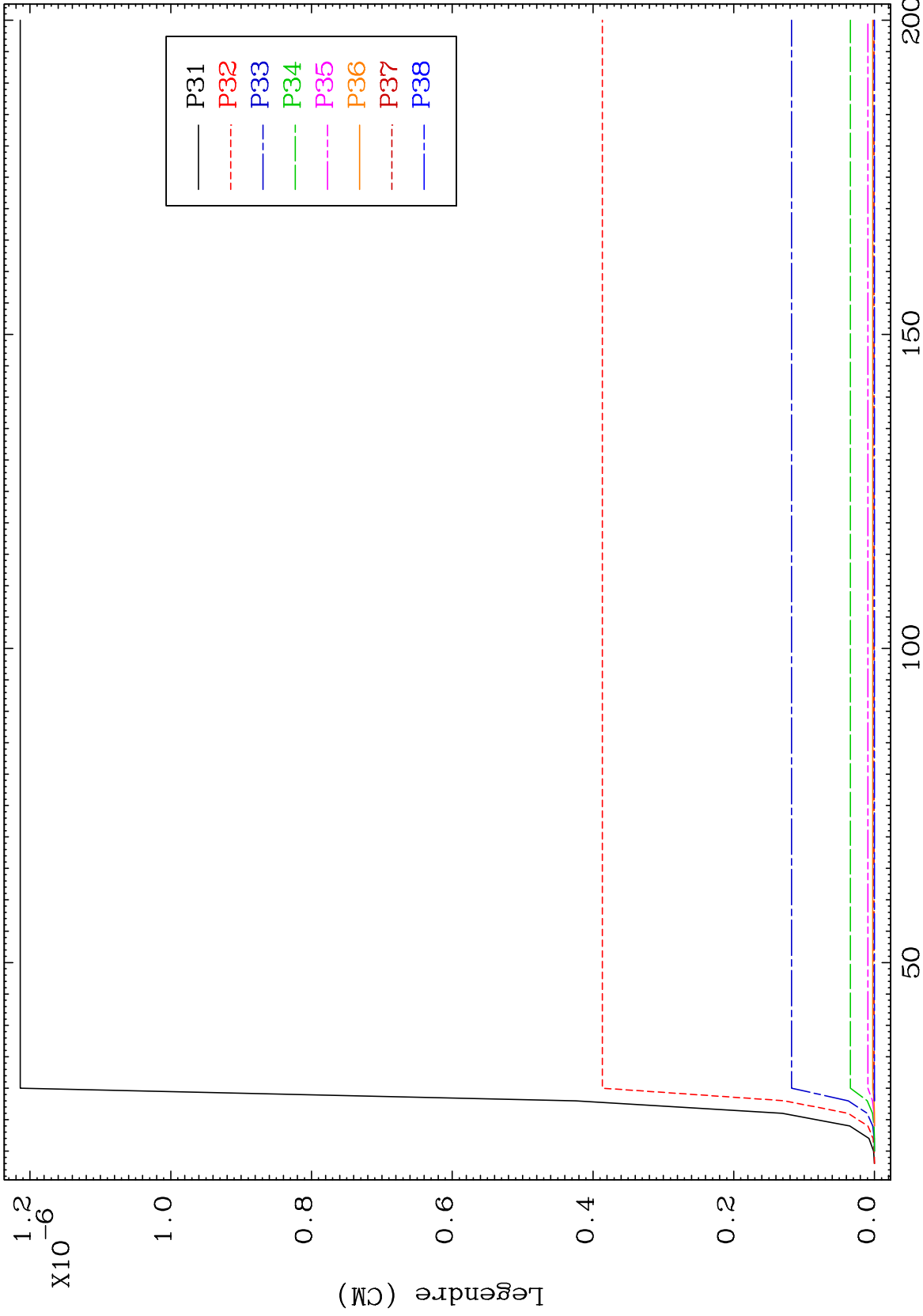
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



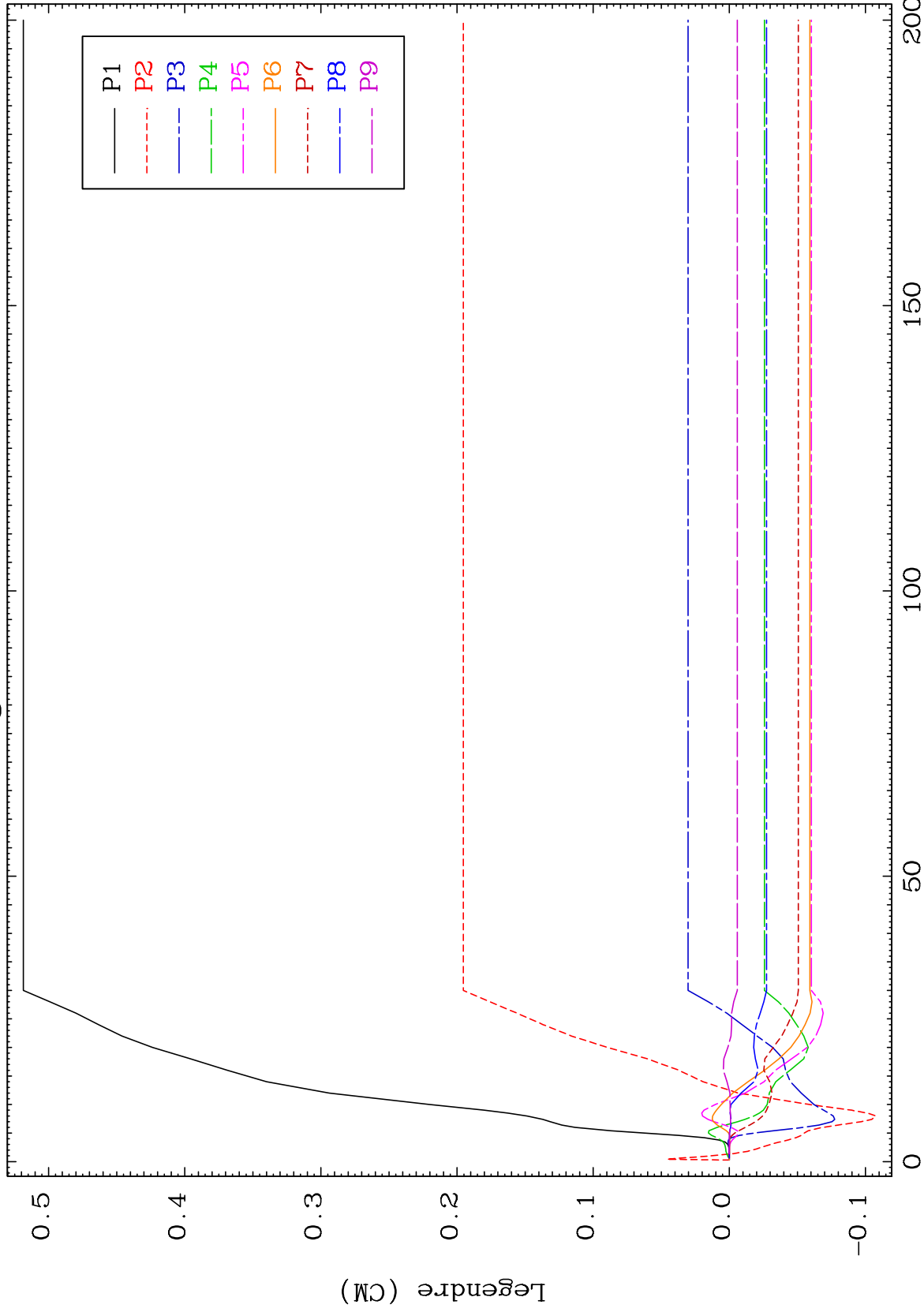
31

79-Au-191

MAT 7907

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

79-Au-191



32

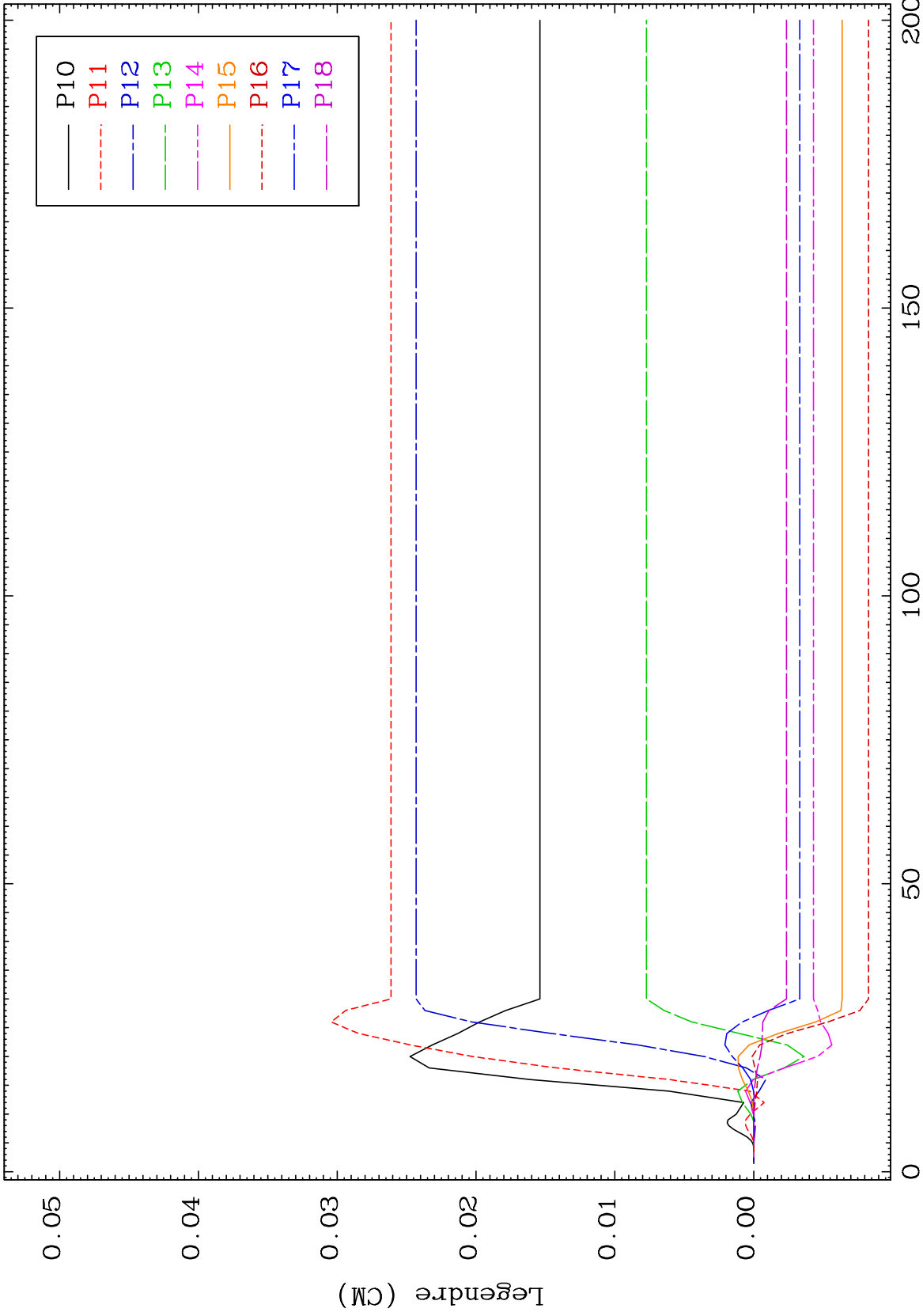
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



33

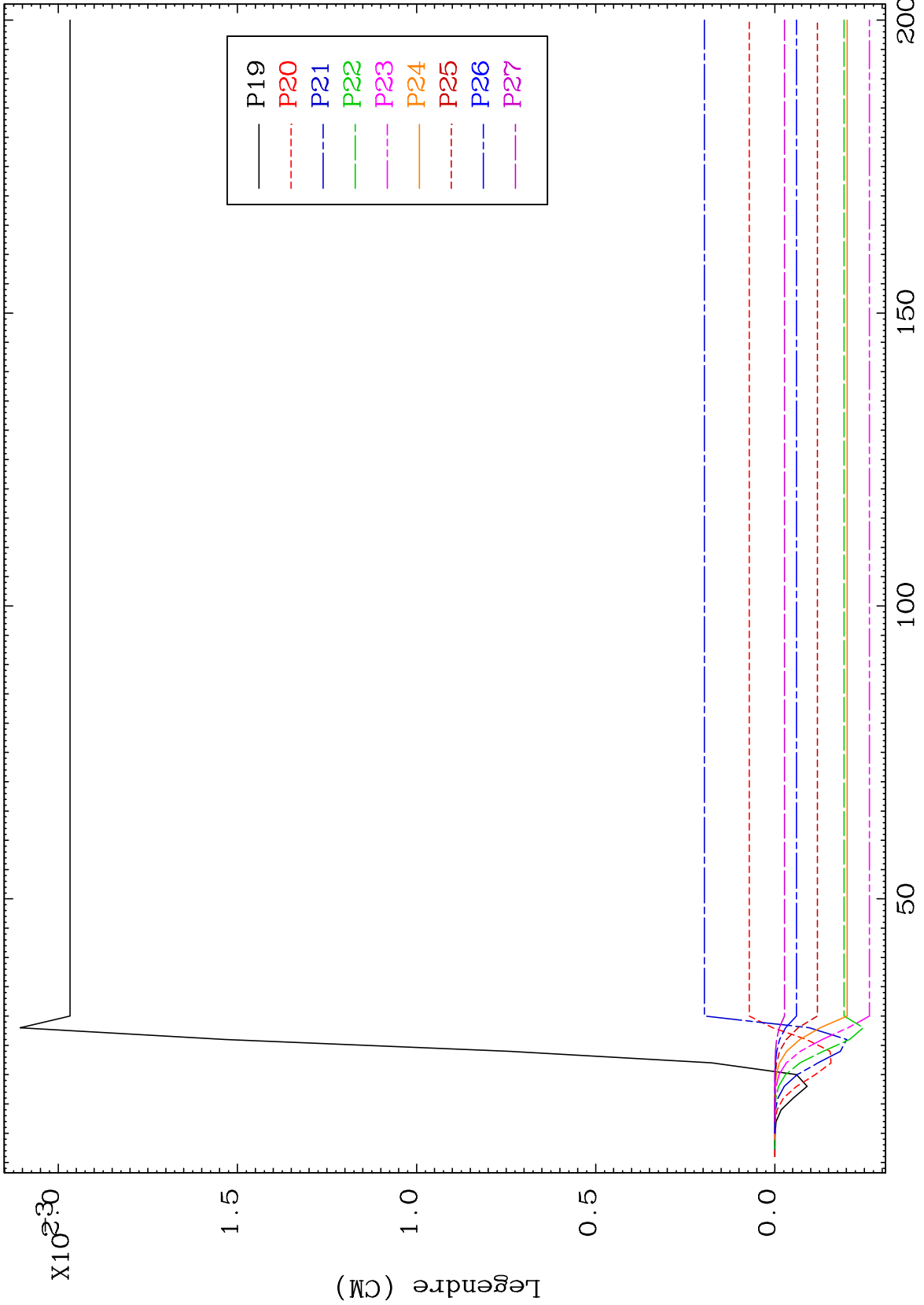
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191

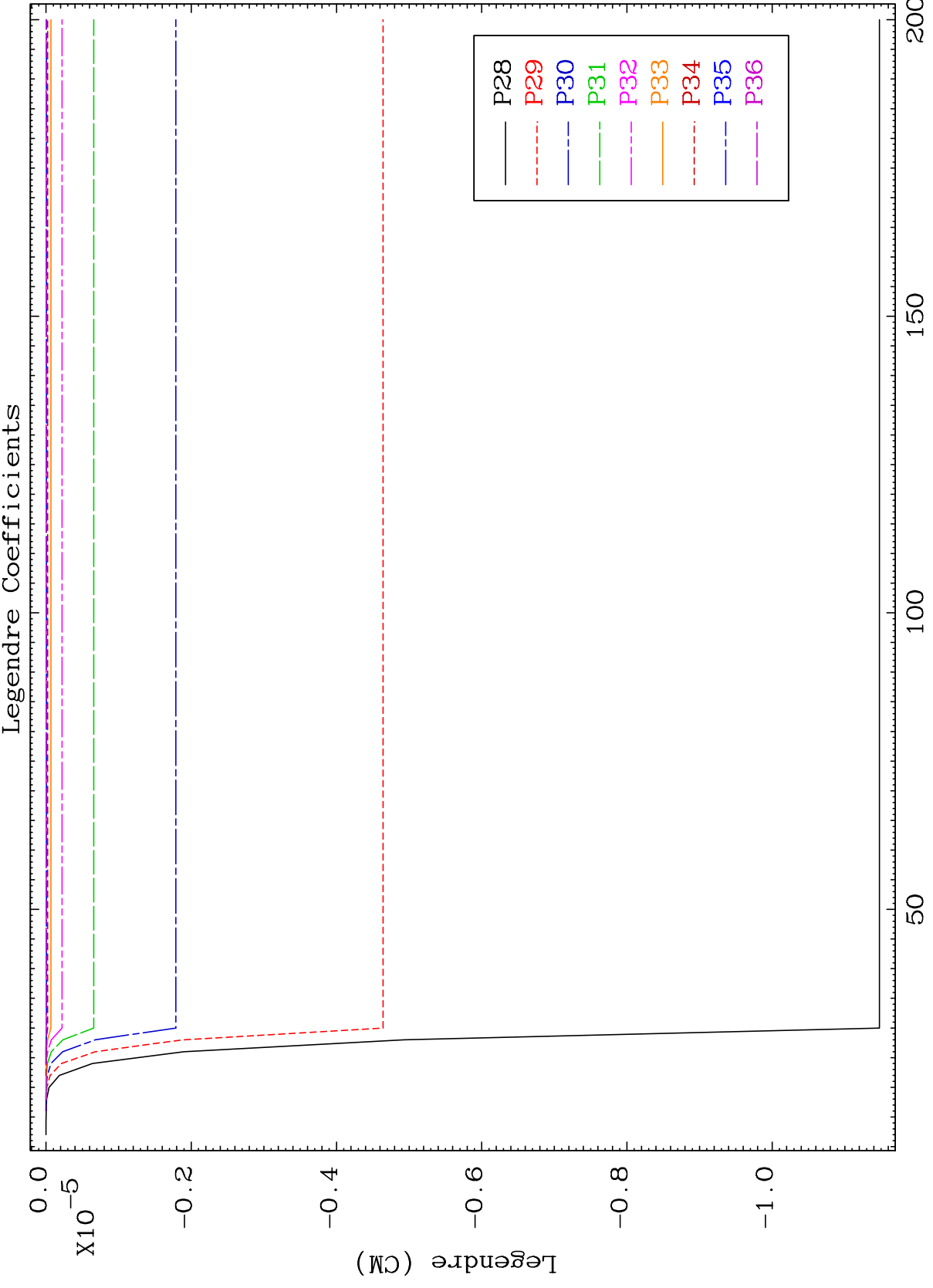


34

Incident Energy (MeV)

79-Au-191

MAT 7907 MT= 54 (n,n') Level Legendre Coefficients 79-Au-191

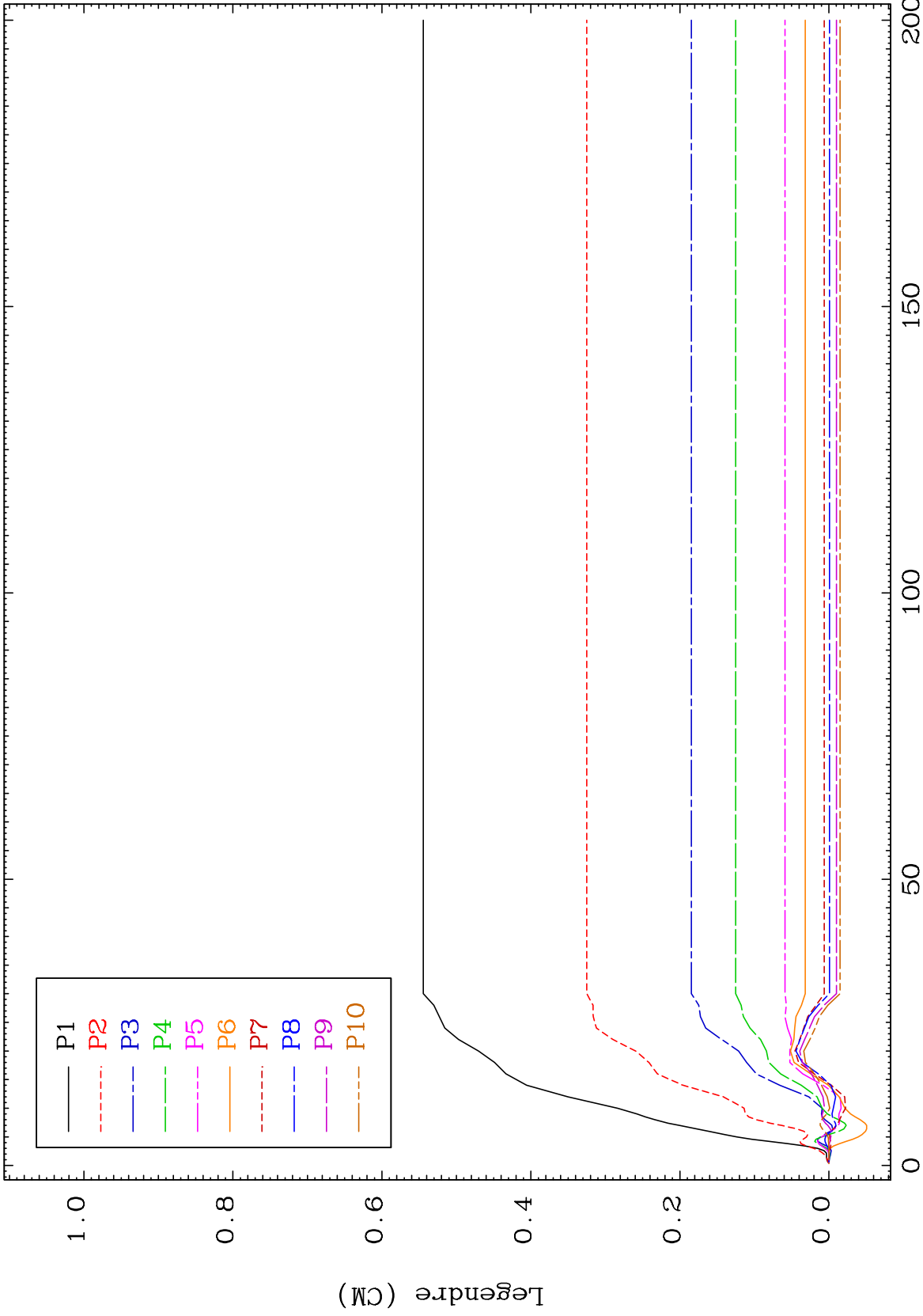


35 Incident Energy (MeV) 79-Au-191

MAT 7907

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

79-Au-191



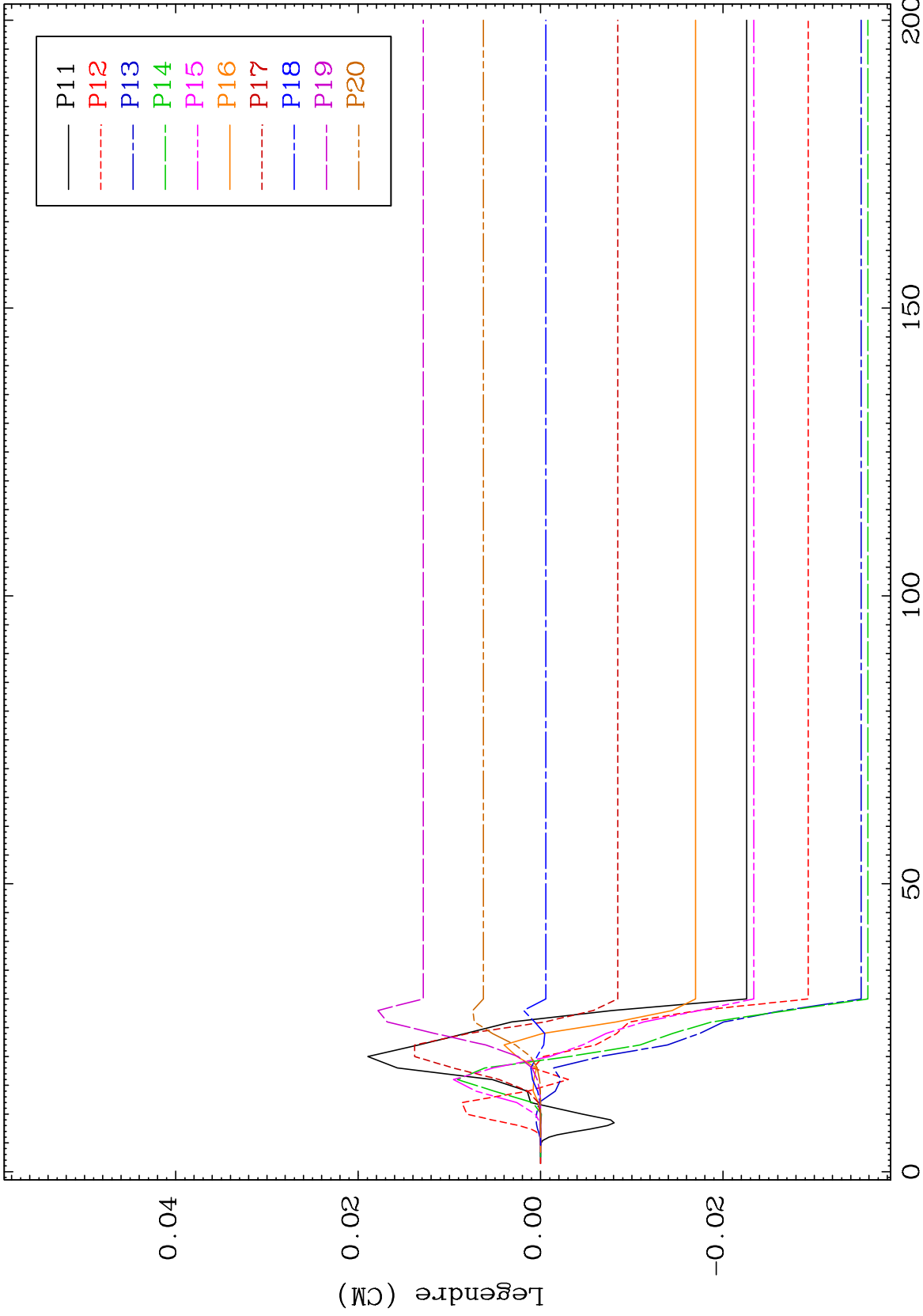
36

79-Au-191

MAT 7907

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

79-Au-191



37

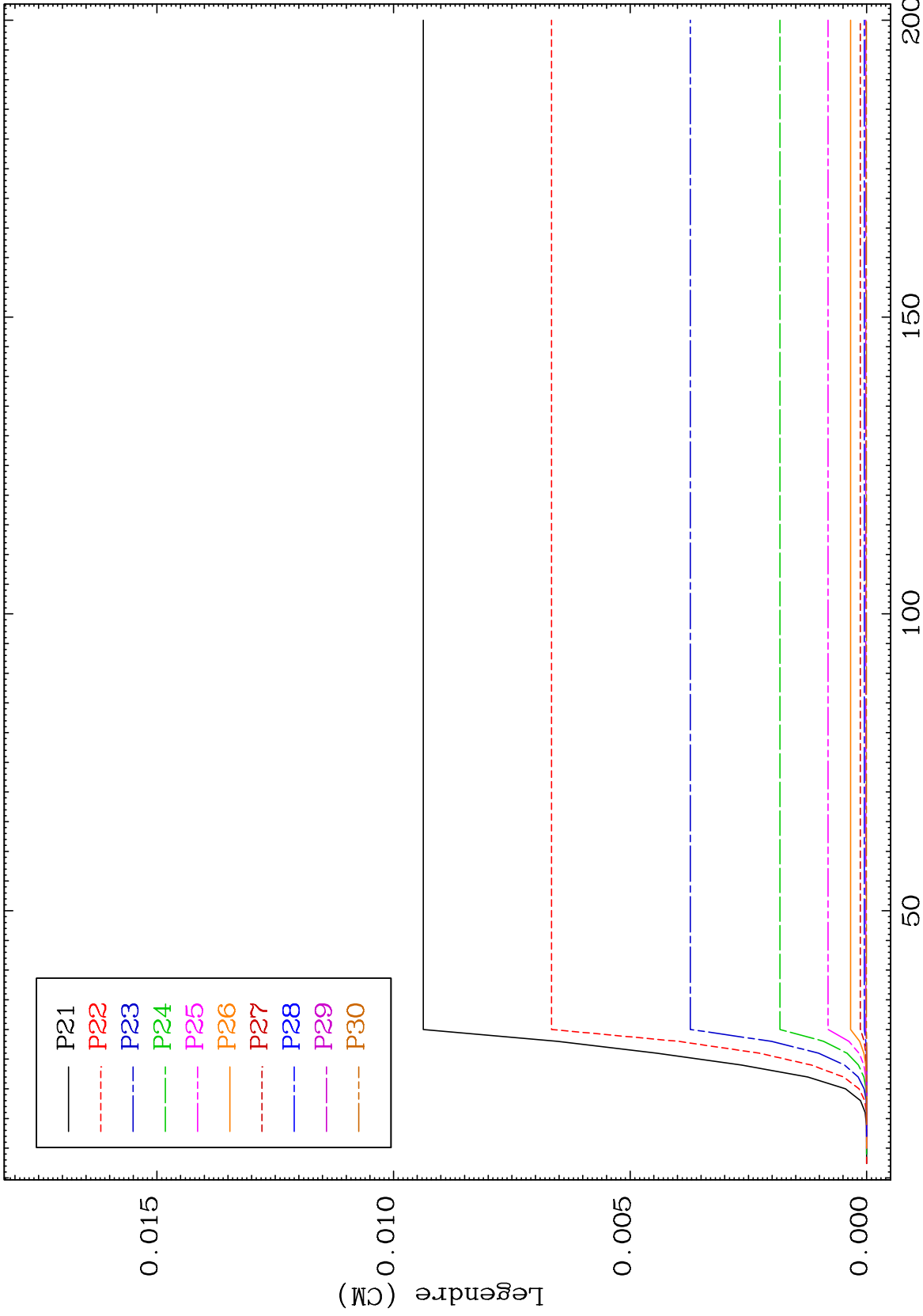
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



38

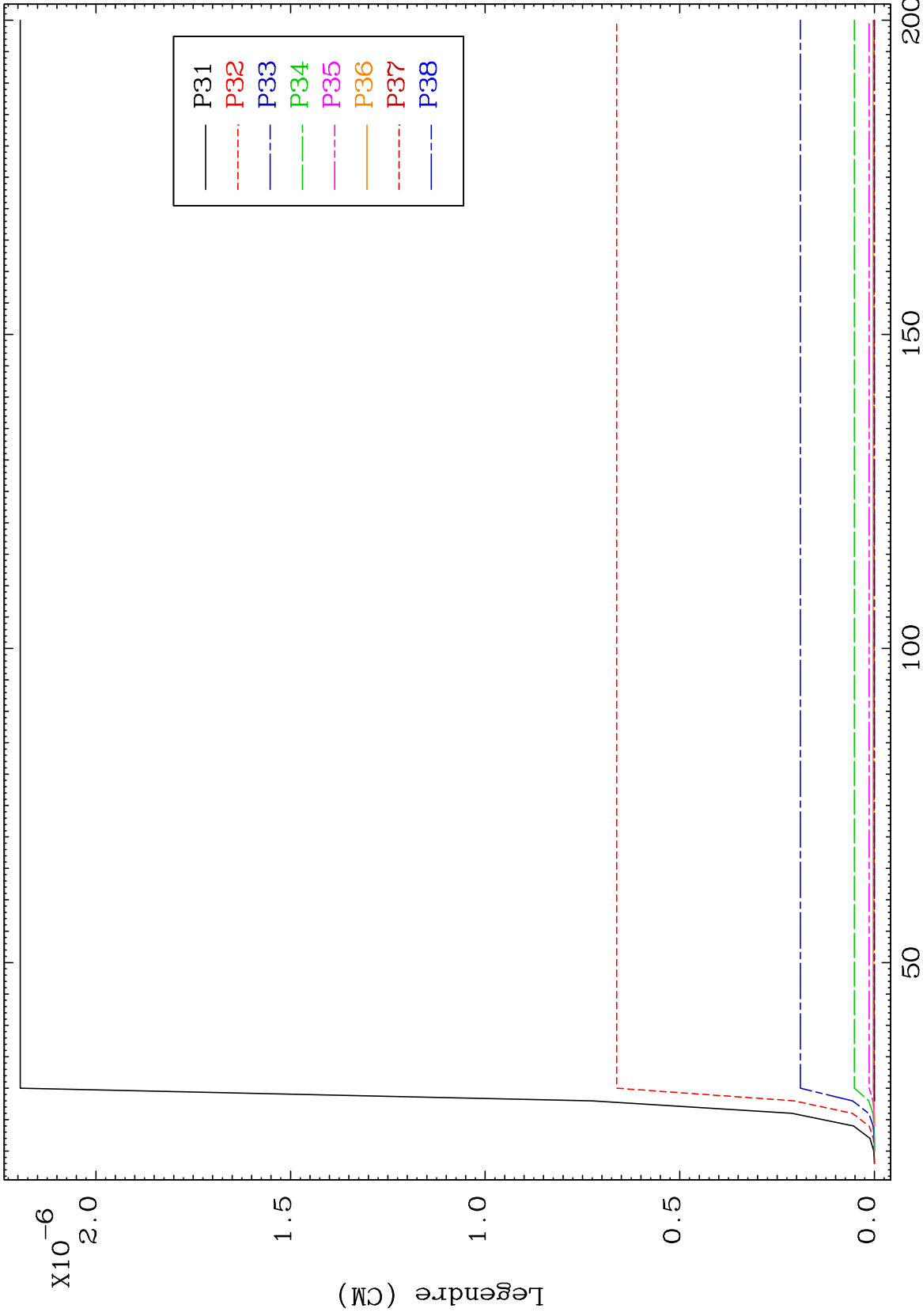
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



39

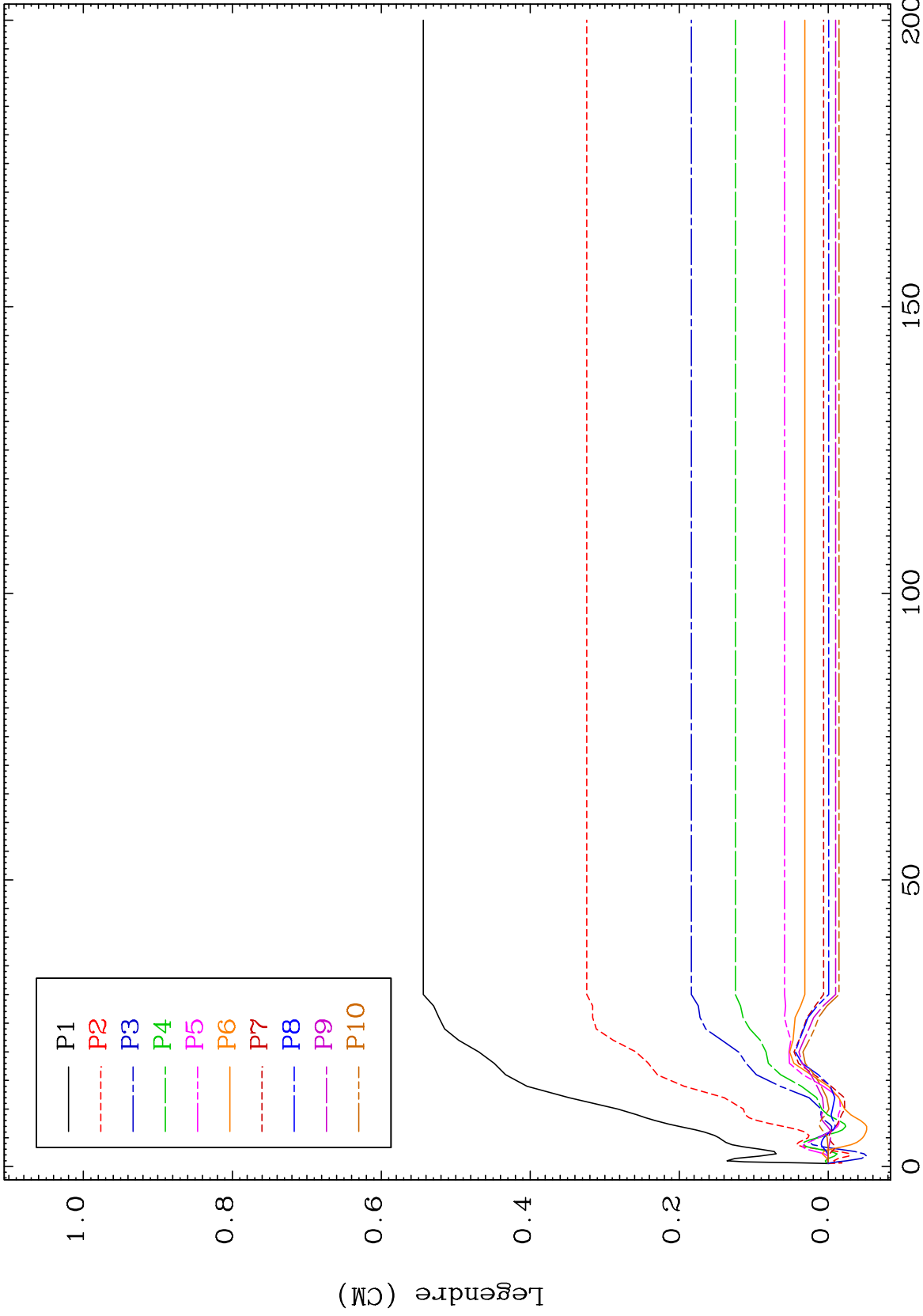
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



40

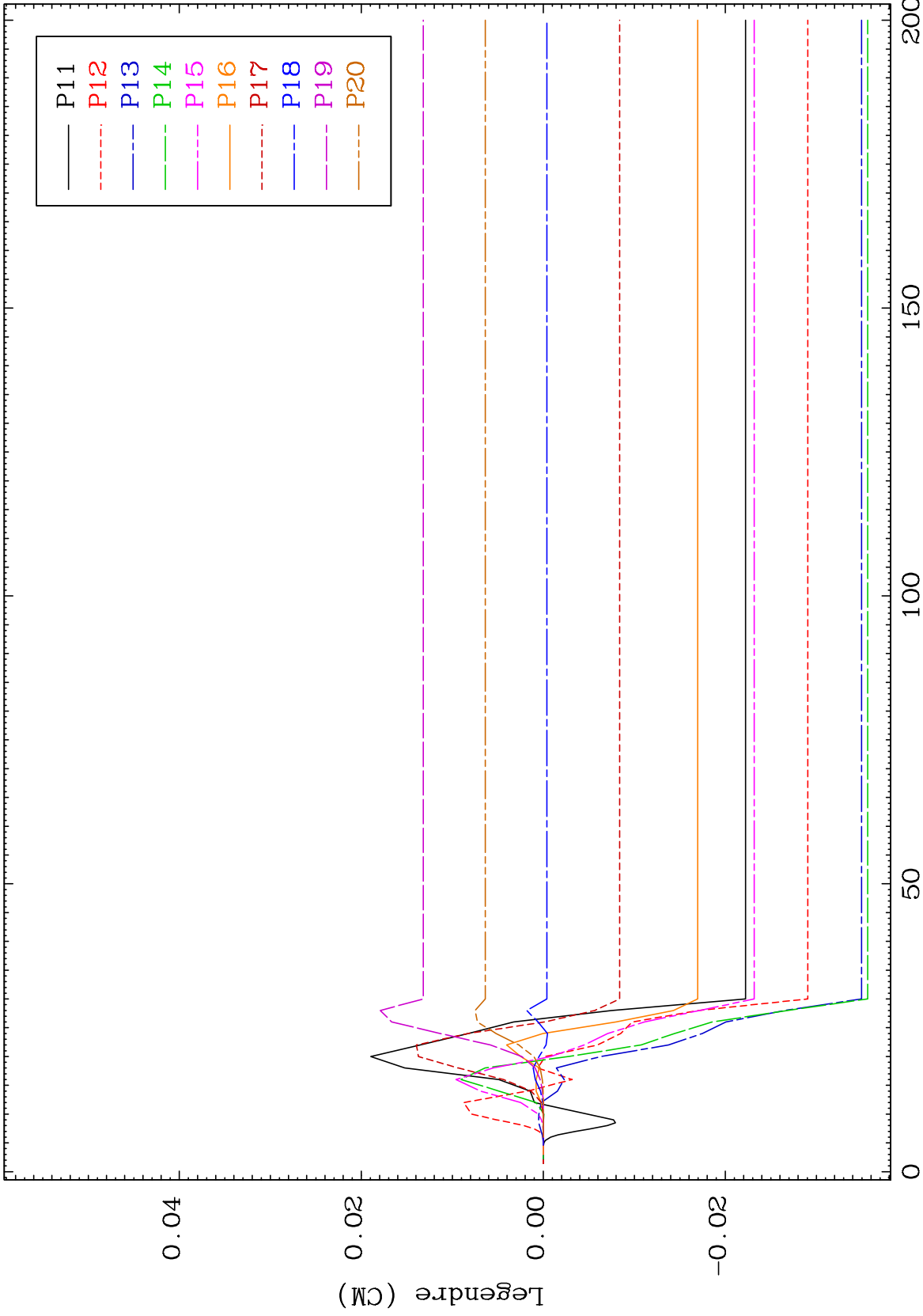
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



41

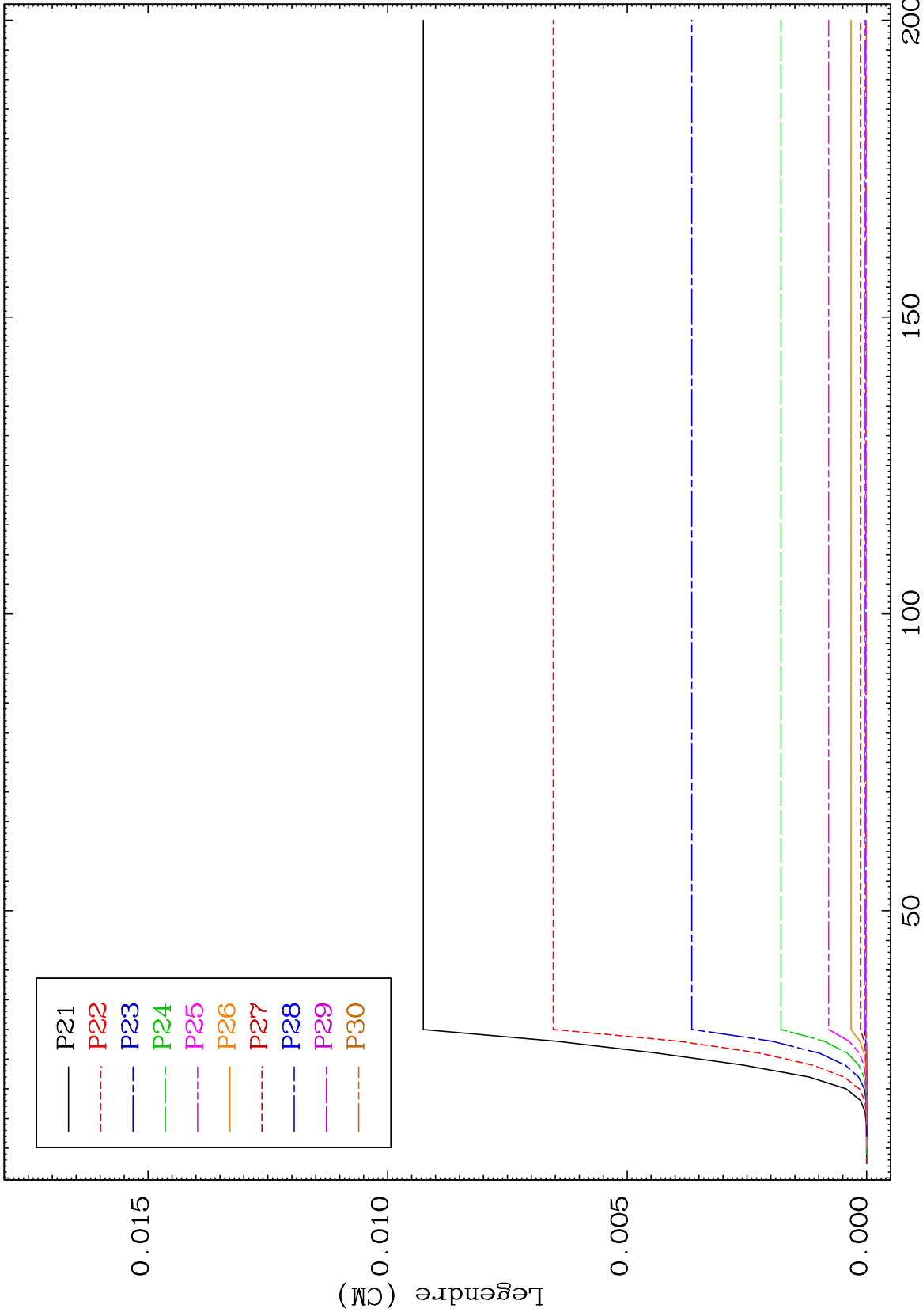
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



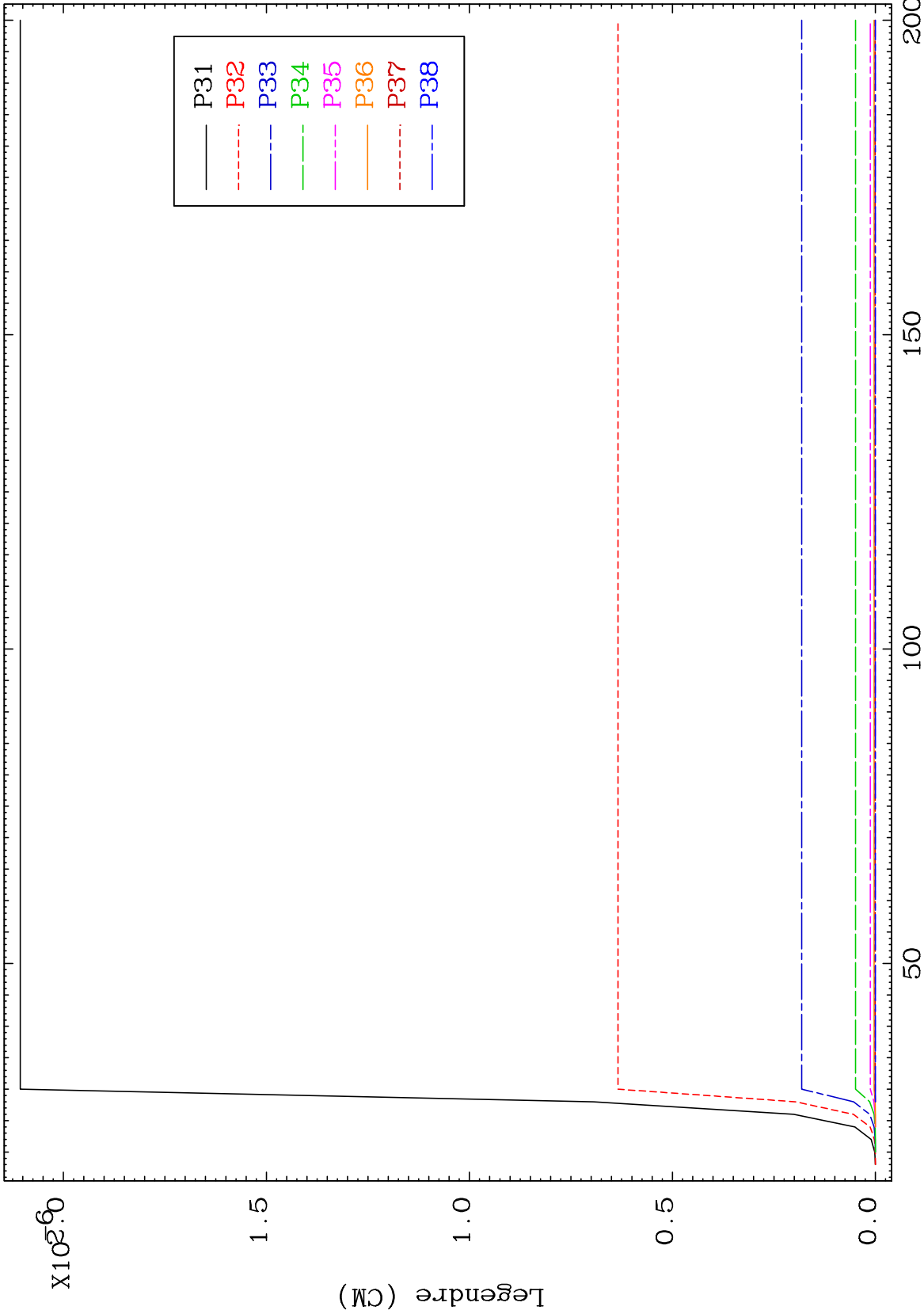
42

79-Au-191

MAT 7907

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

79-Au-191



43

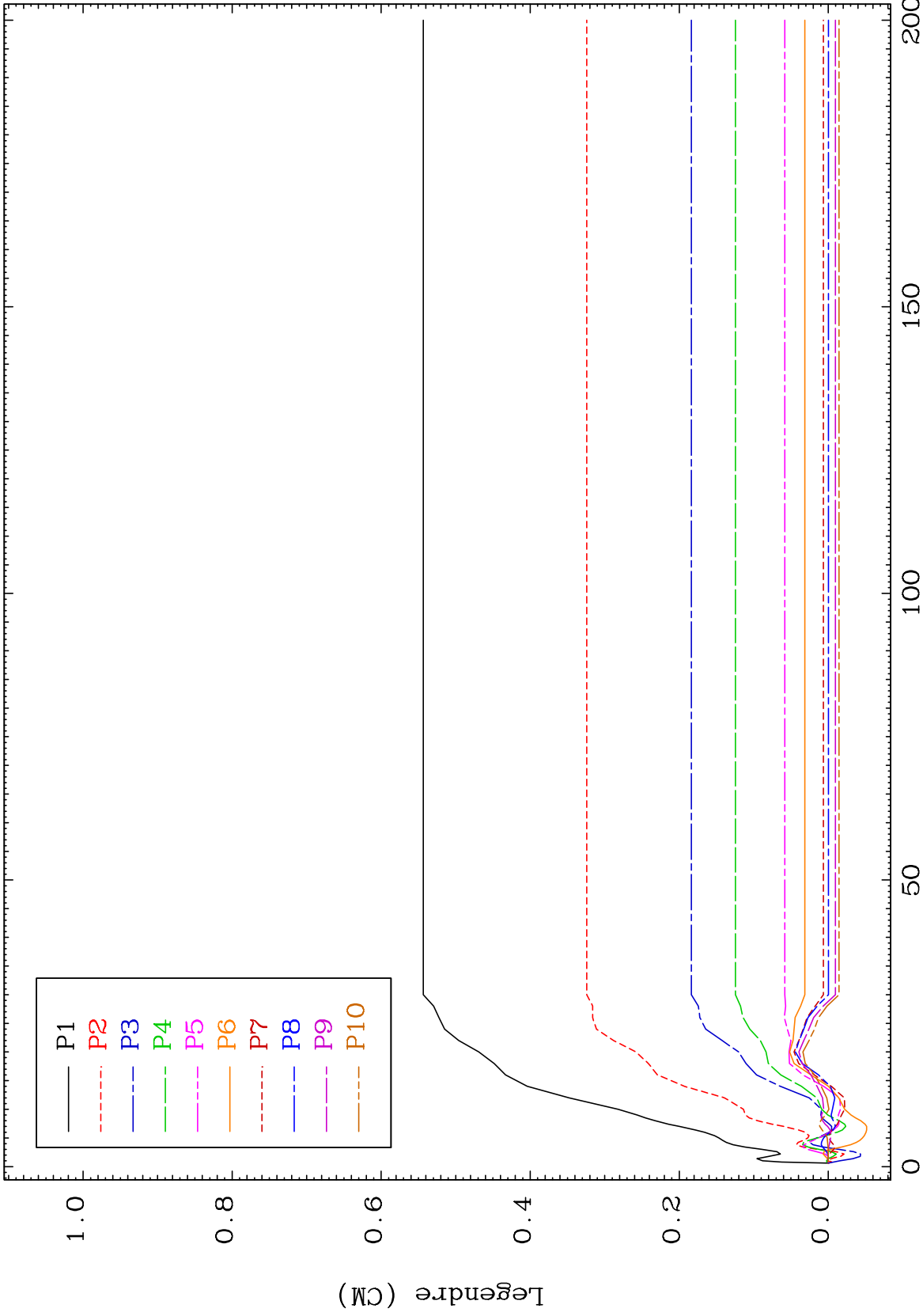
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



44

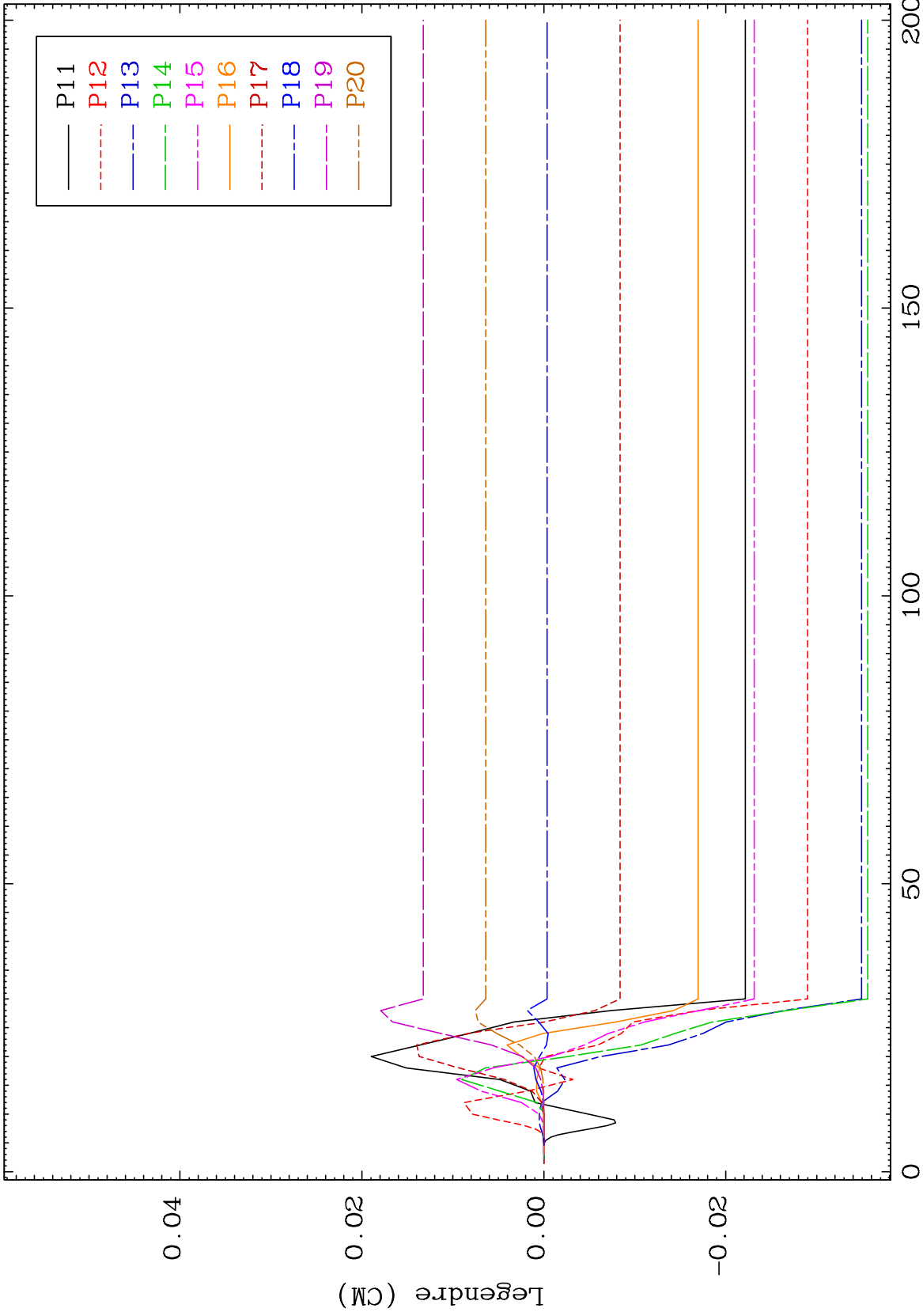
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



45

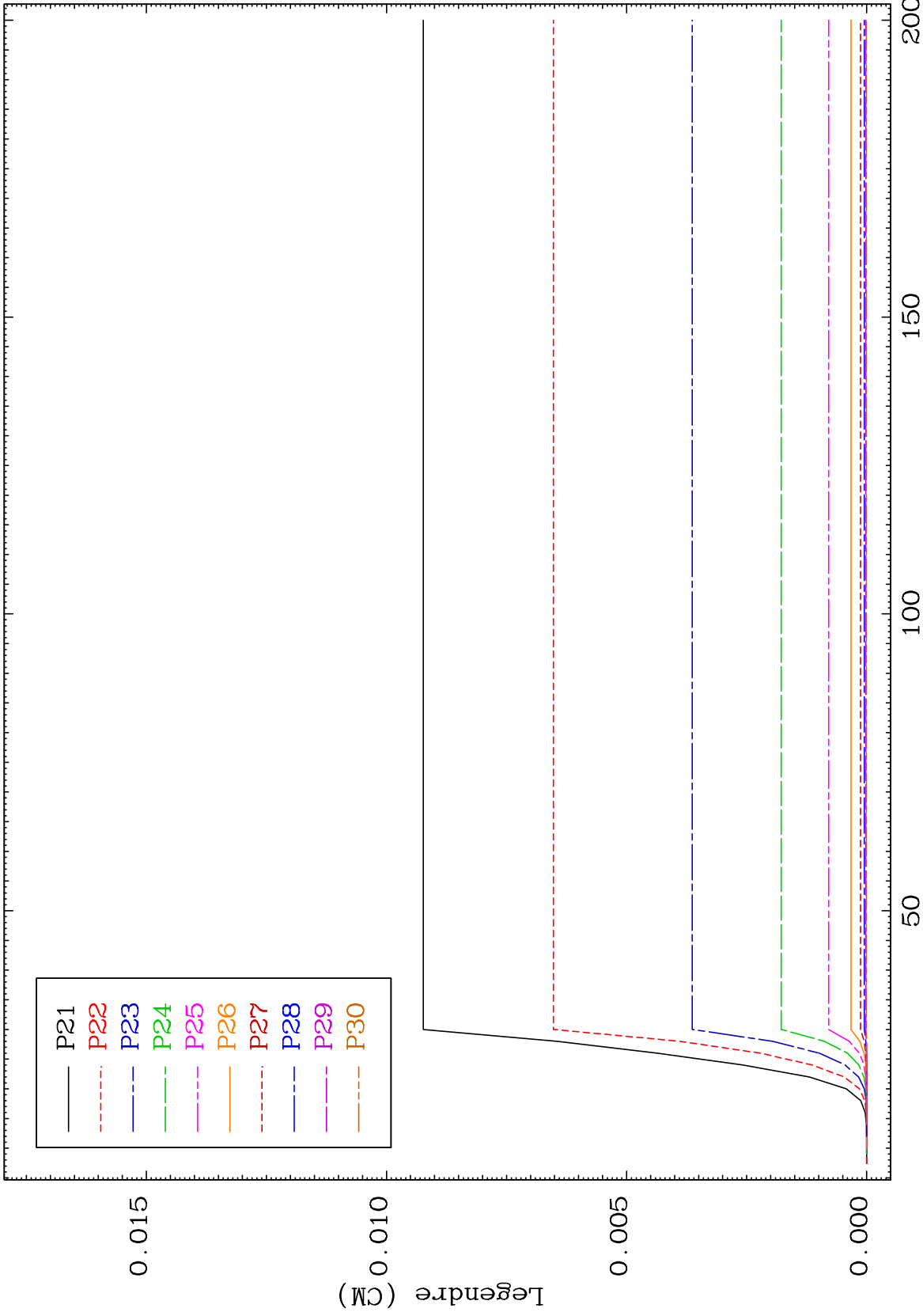
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



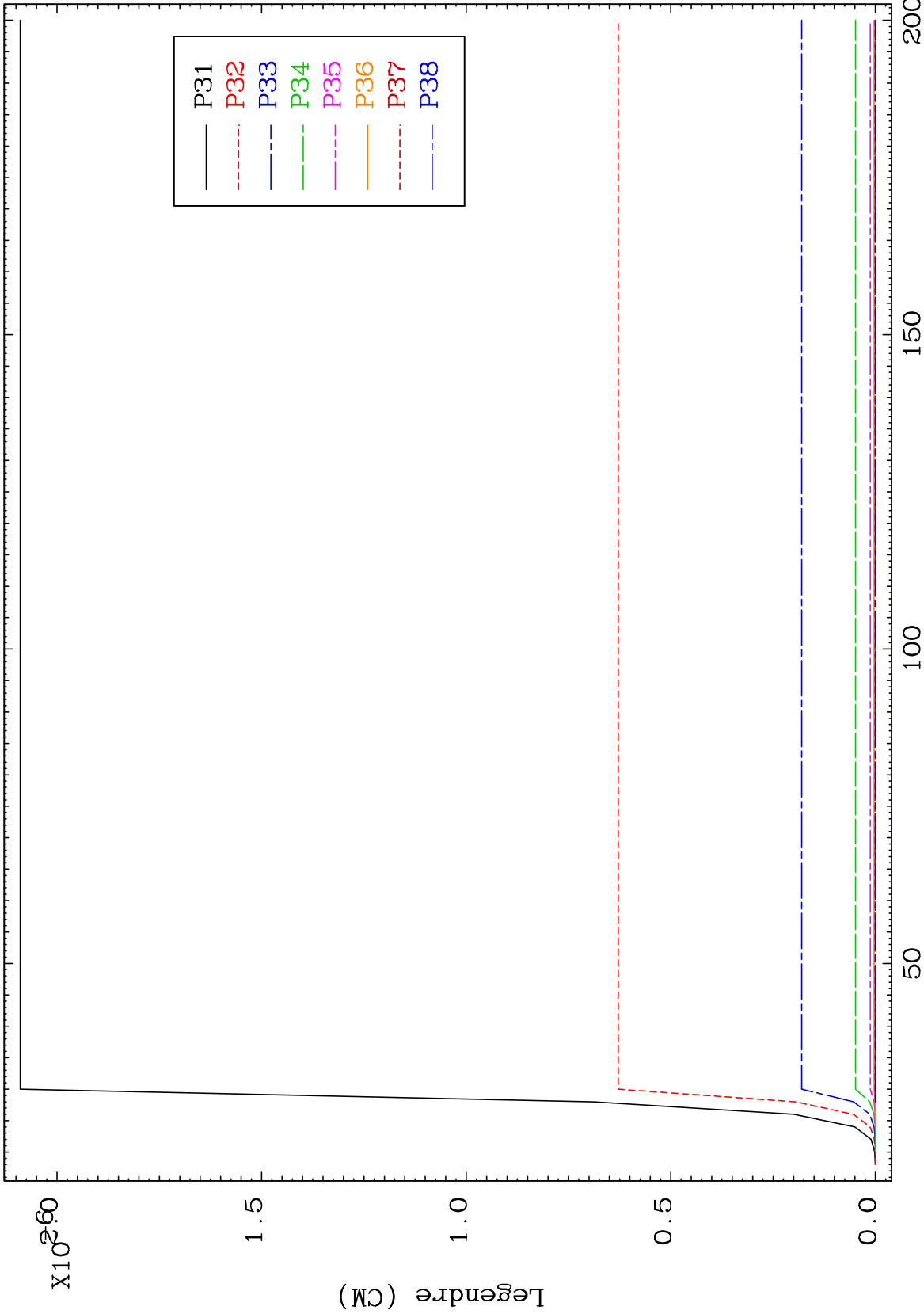
46

79-Au-191

MAT 7907

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

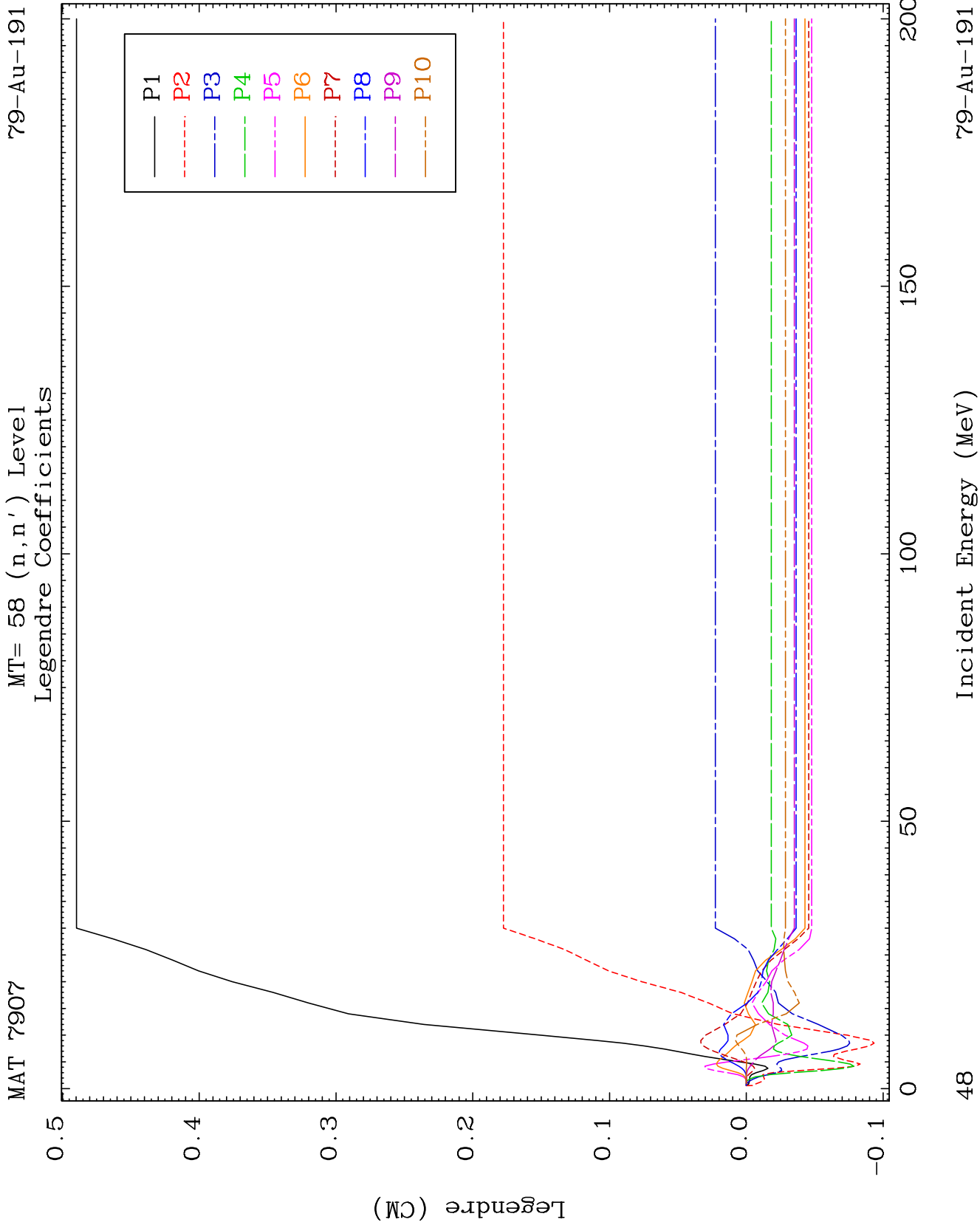
79-Au-191



47

Incident Energy (MeV)

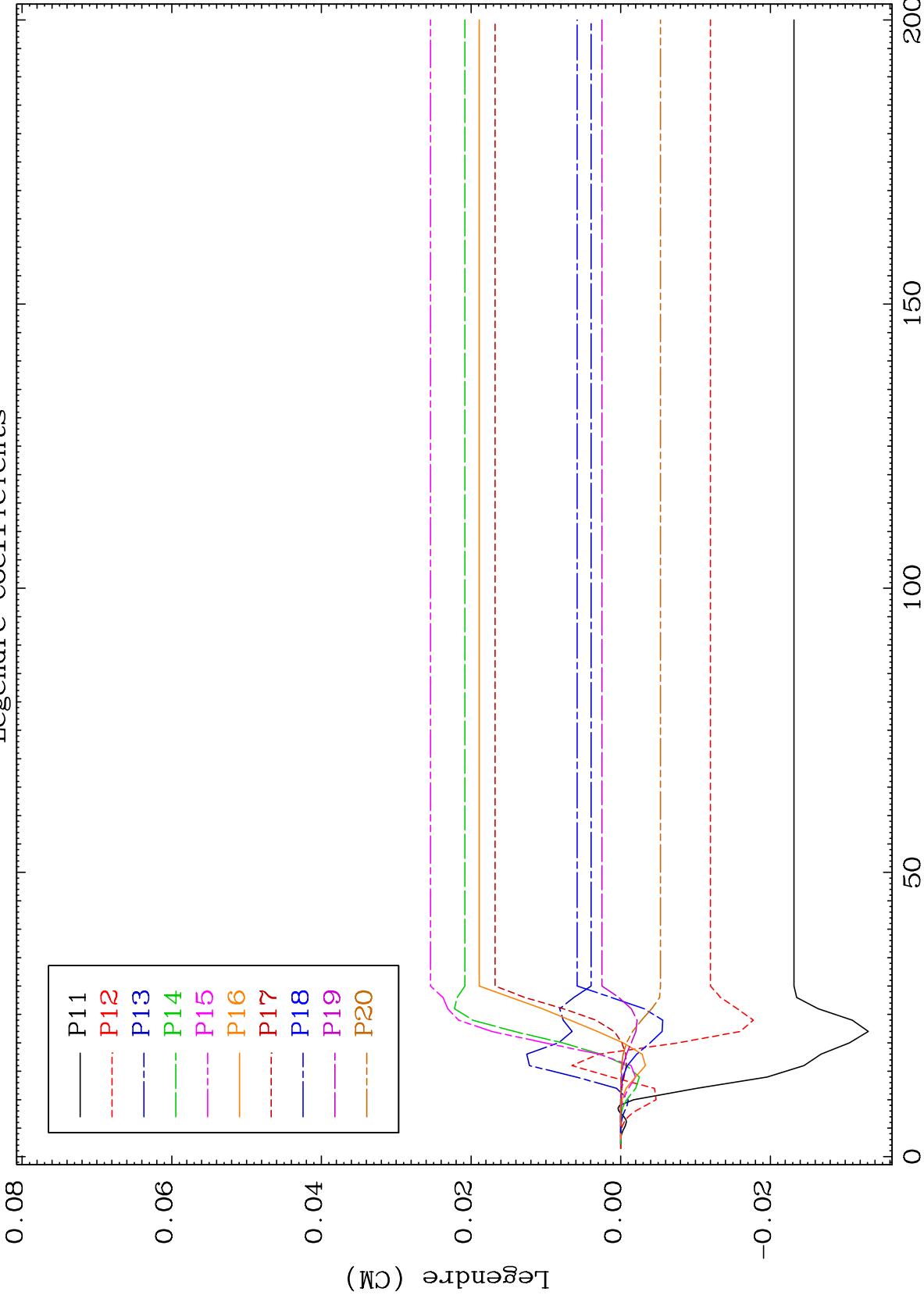
79-Au-191



MAT 7907

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

79-Au-191



49

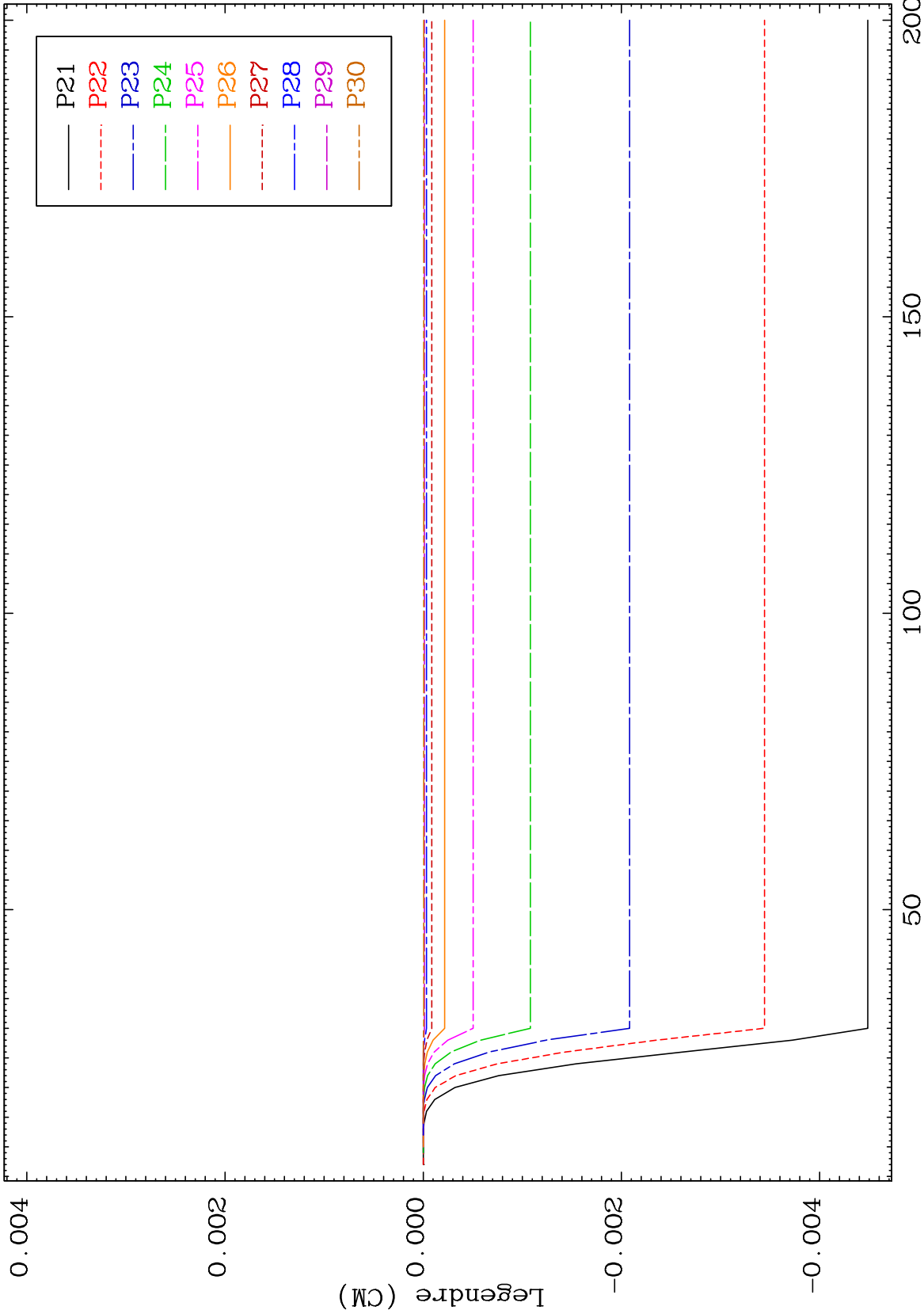
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



50

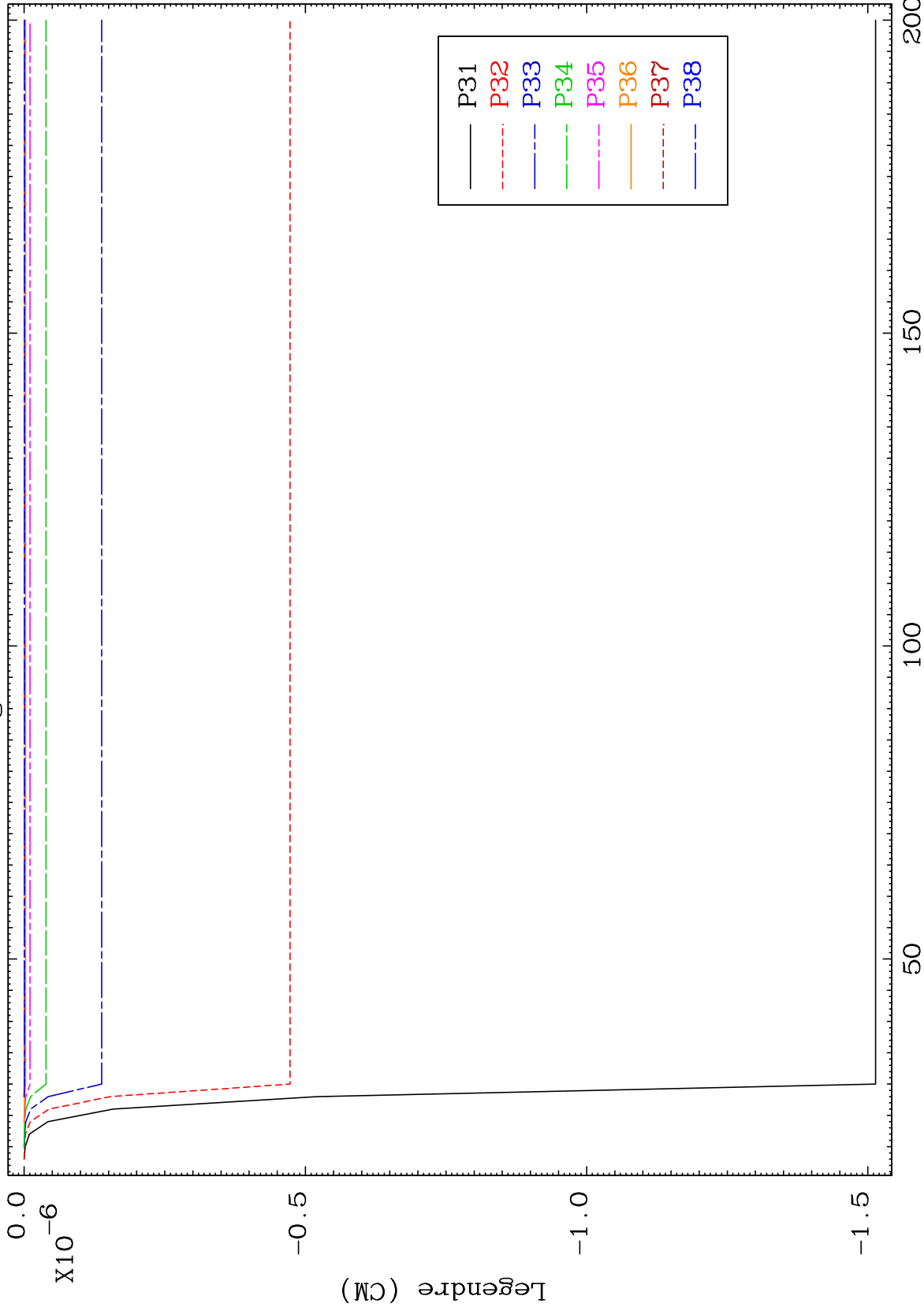
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



51

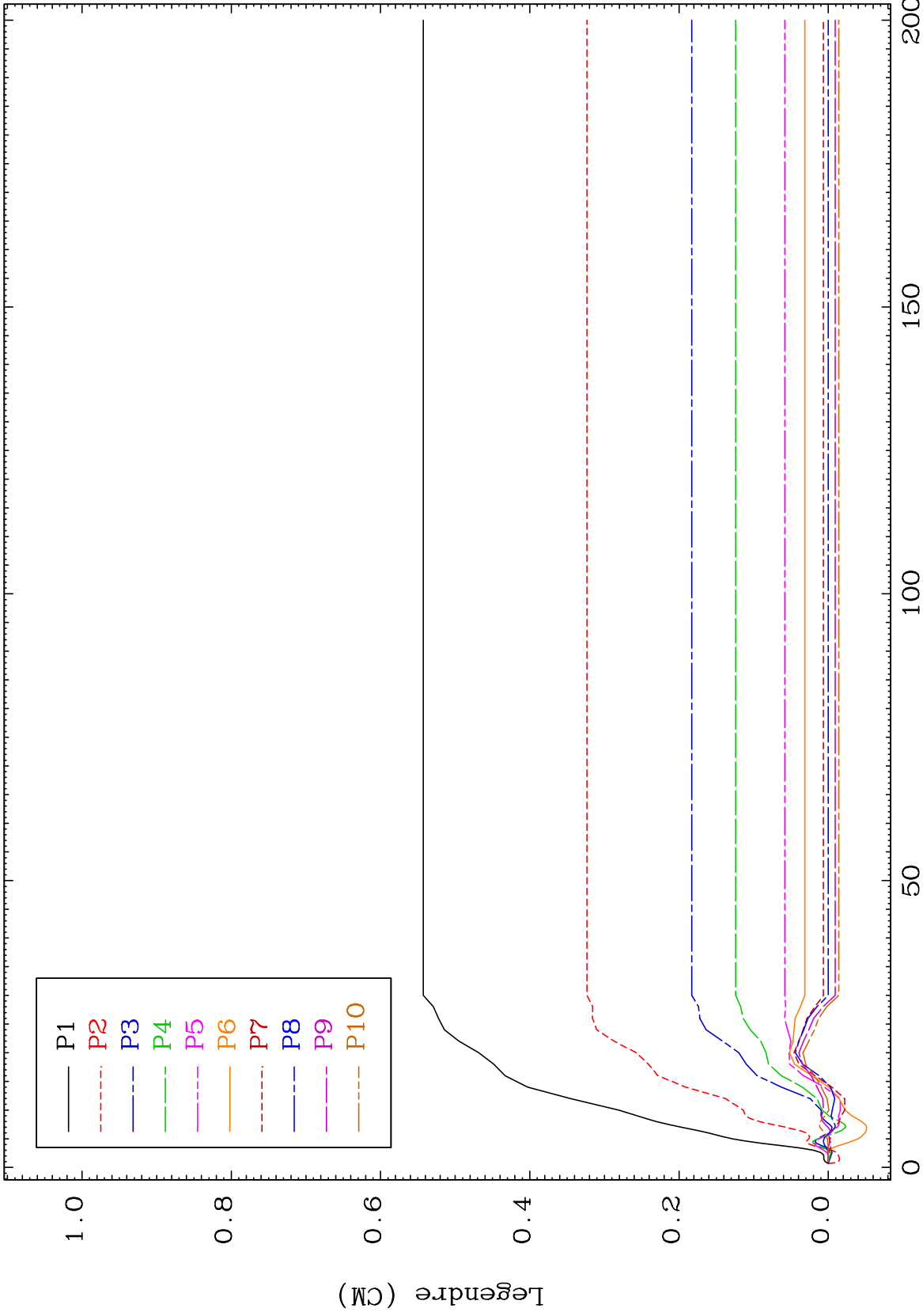
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



52

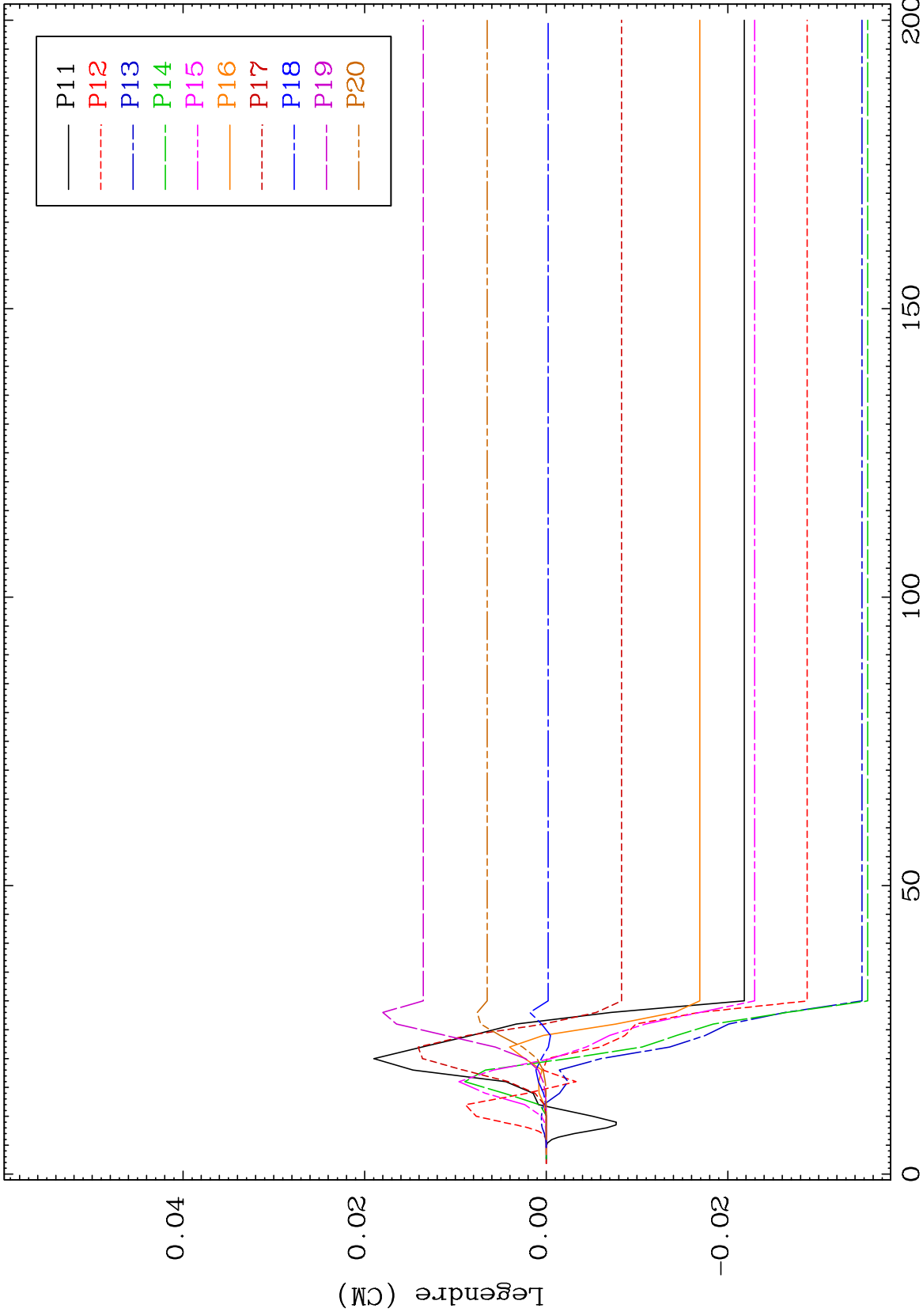
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



53

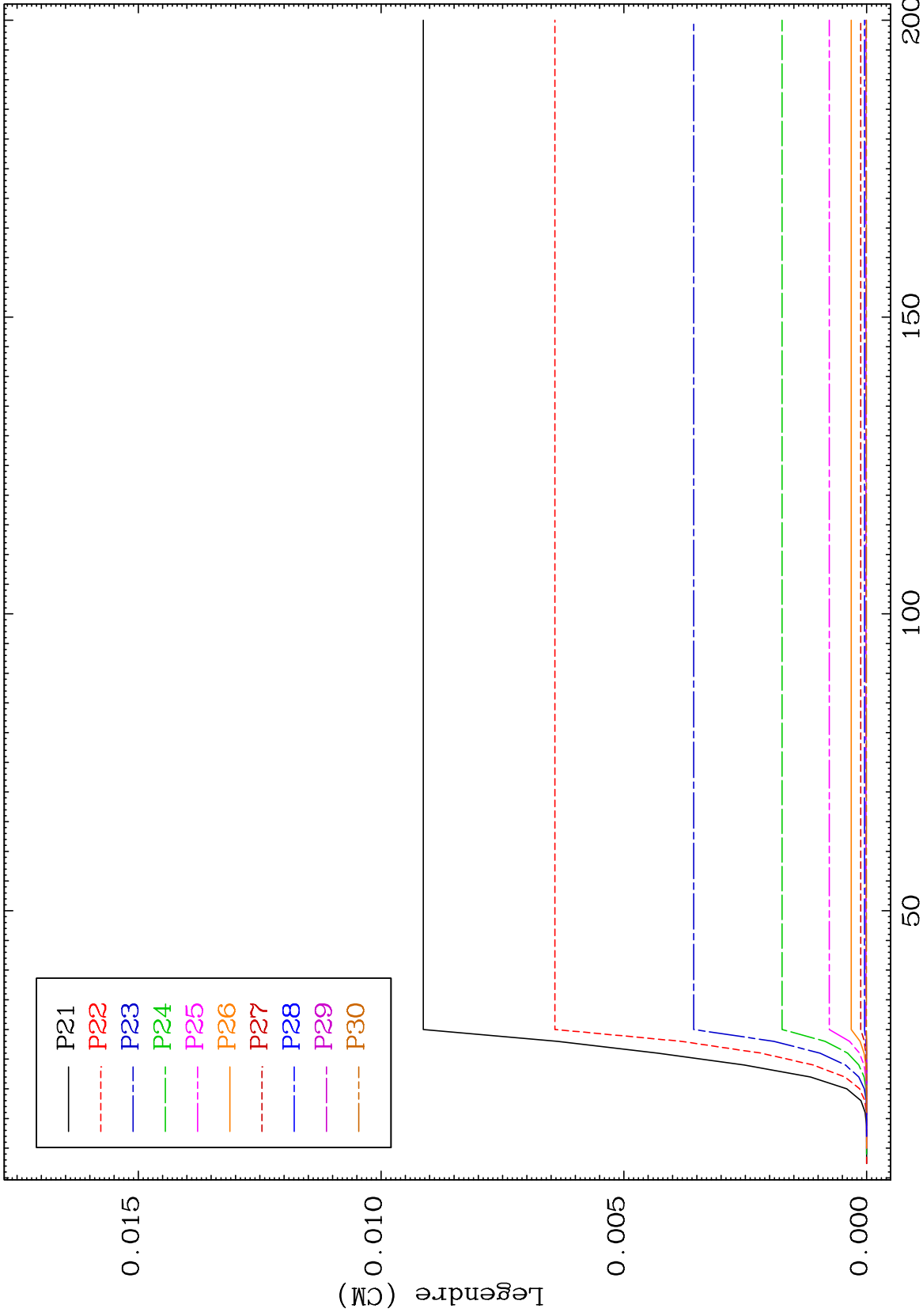
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



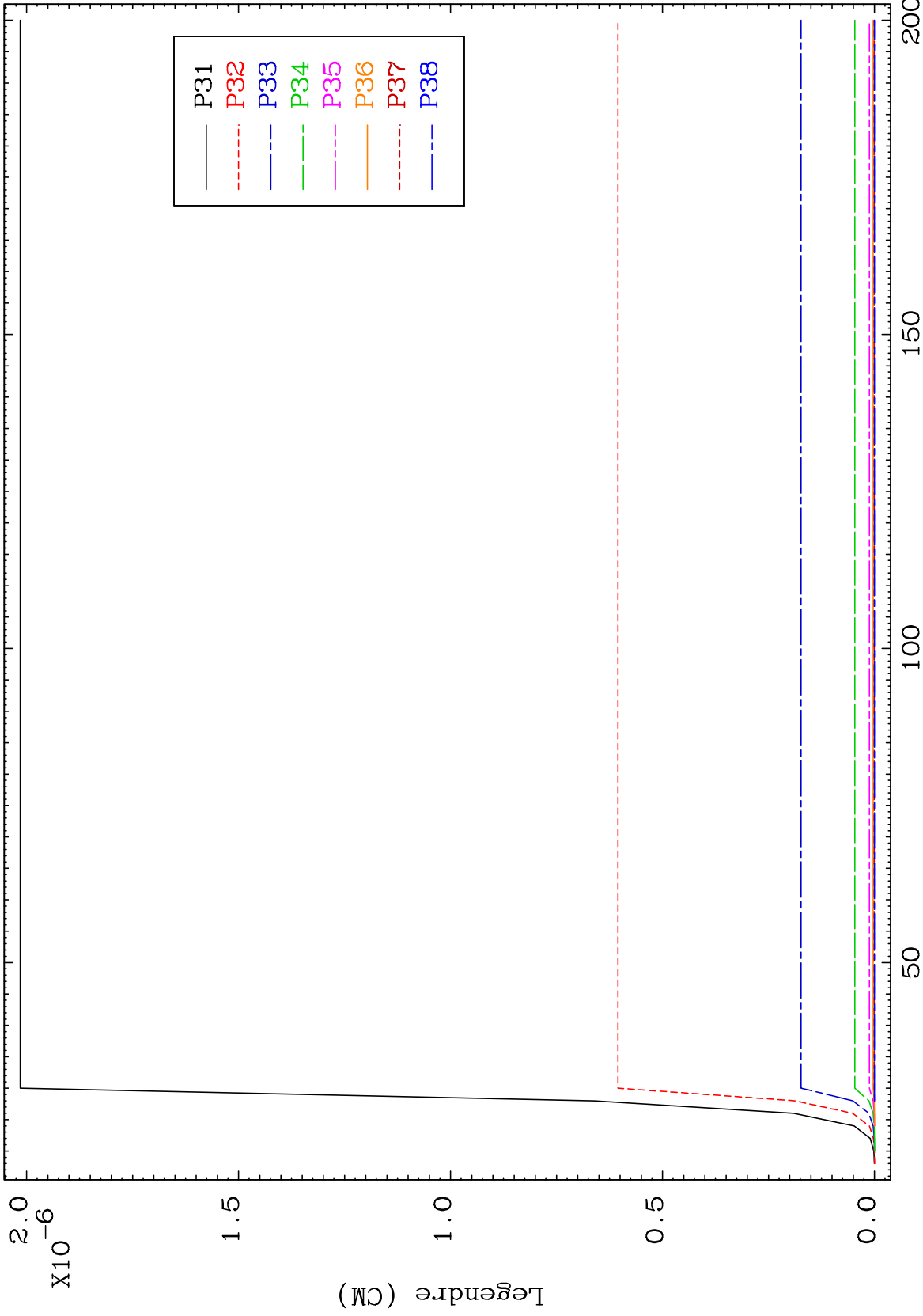
54

79-Au-191

MAT 7907

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

79-Au-191



55

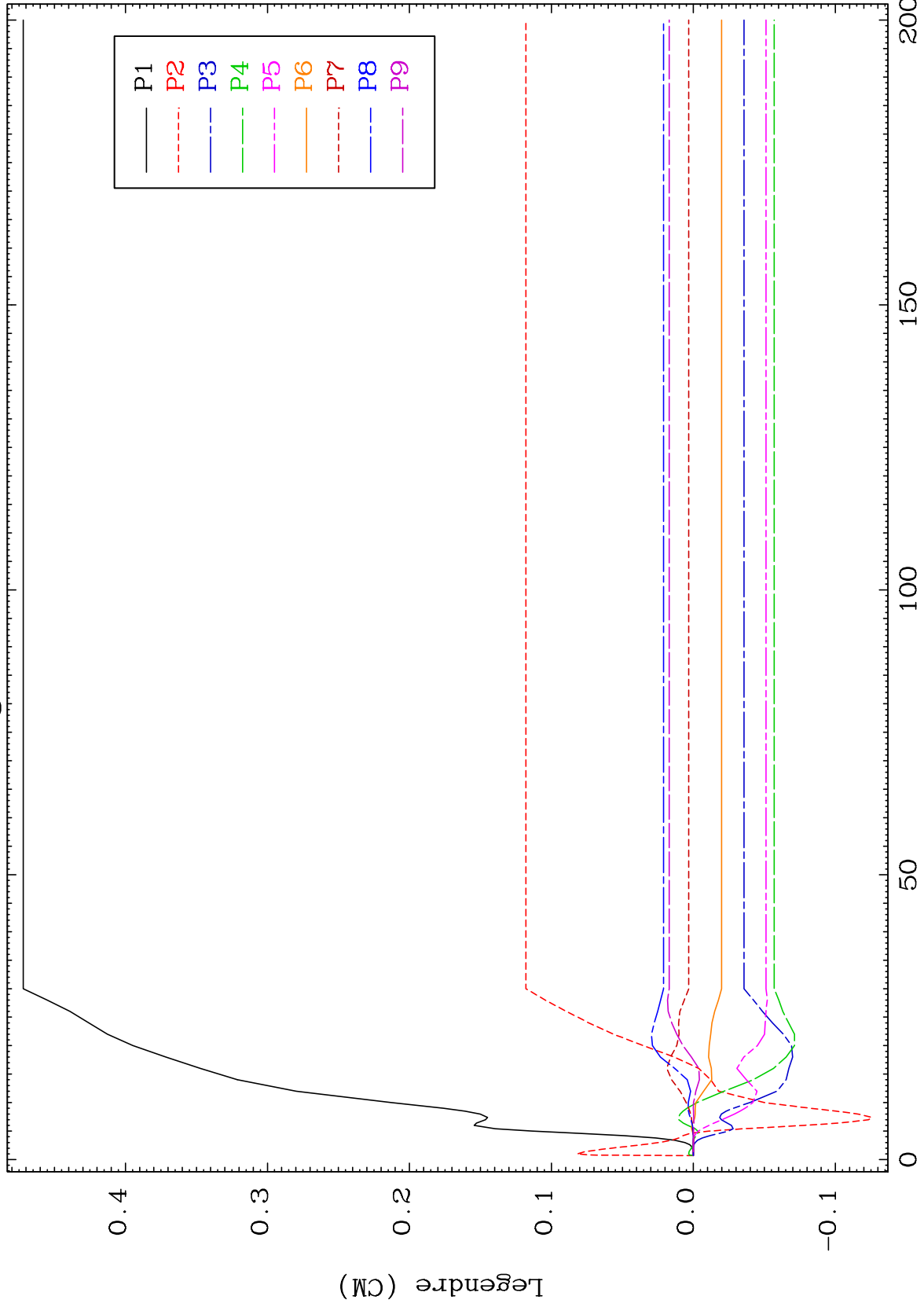
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



56

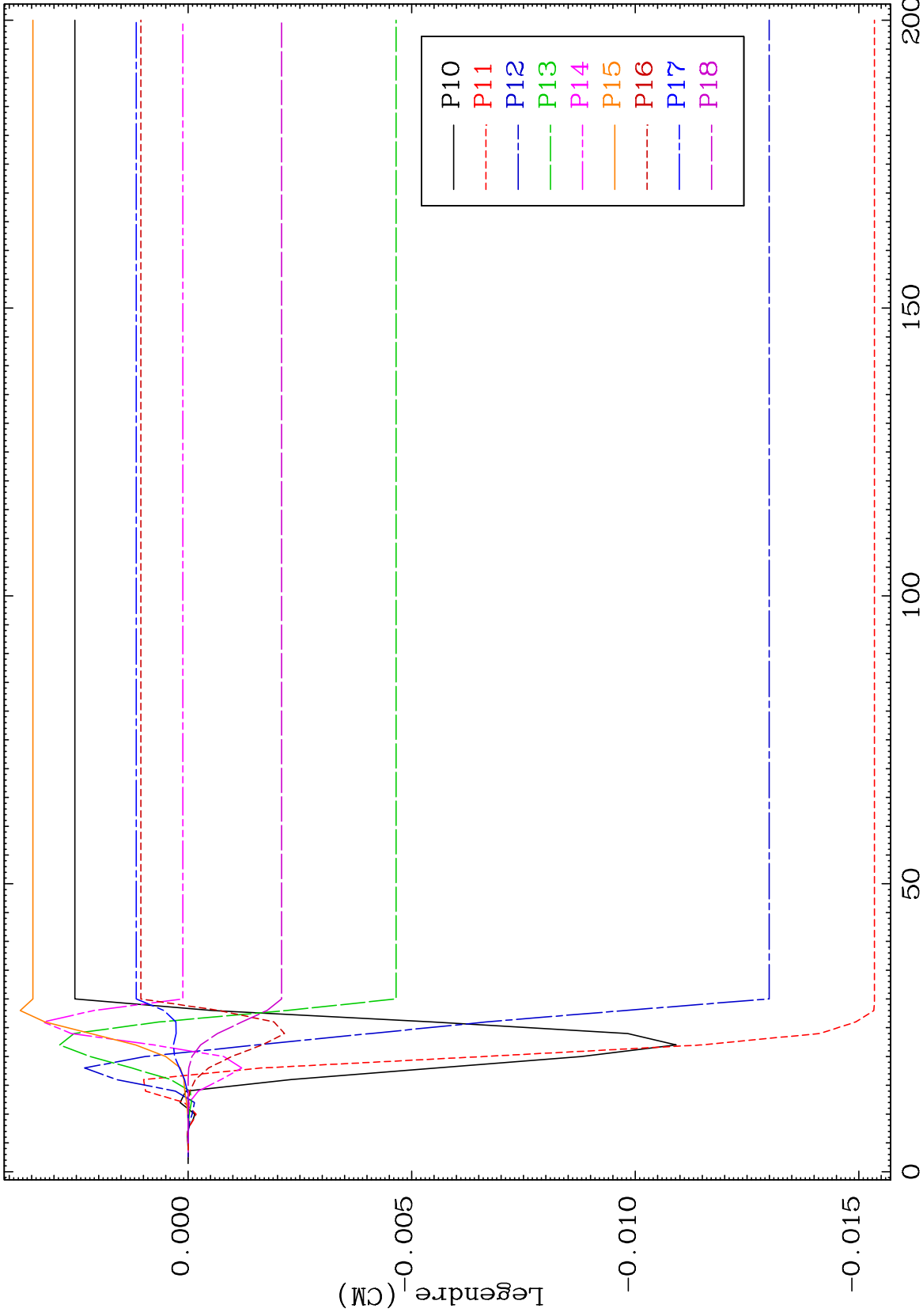
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



57

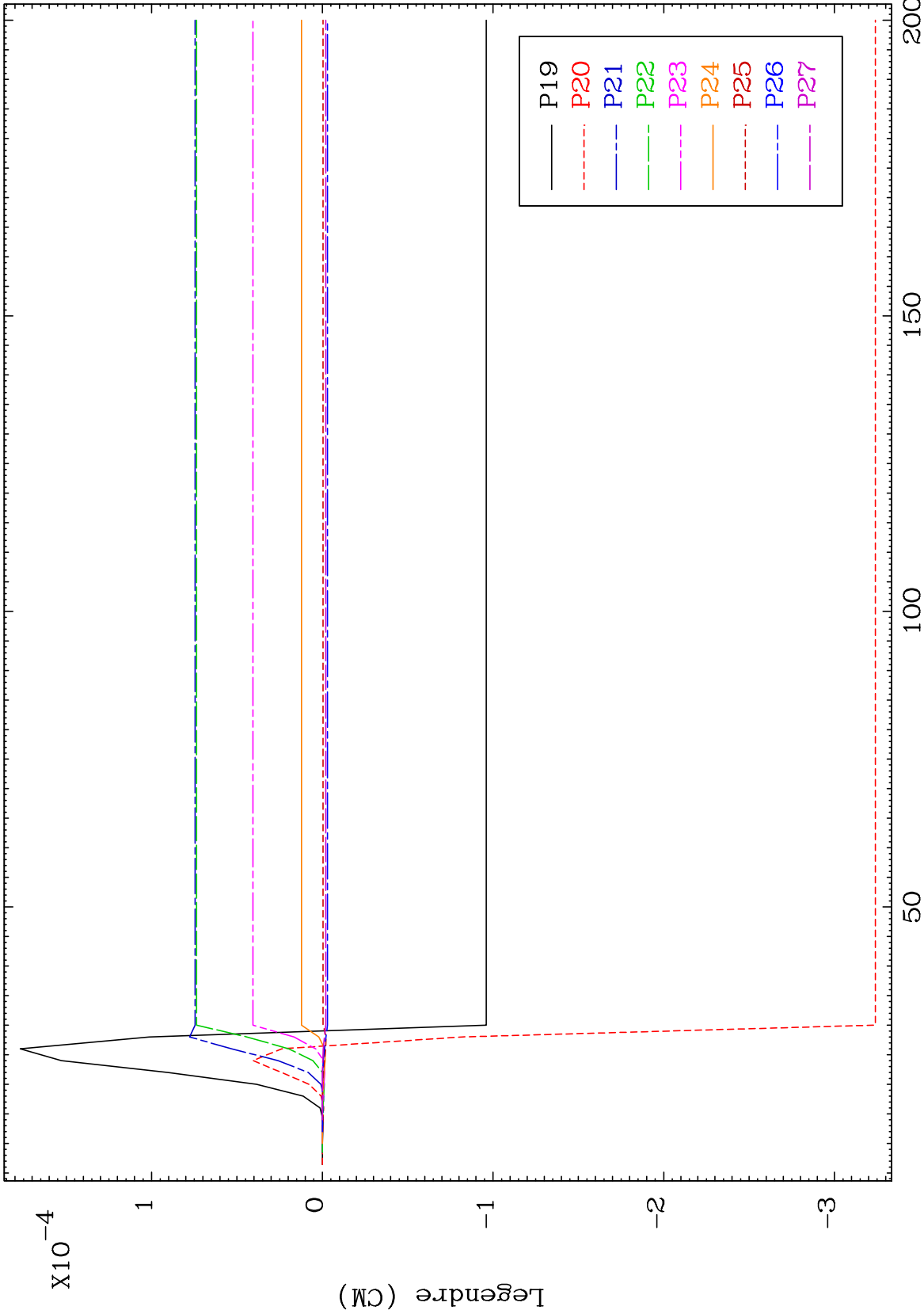
Incident Energy (MeV)

79-Au-191

MAT 7907

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

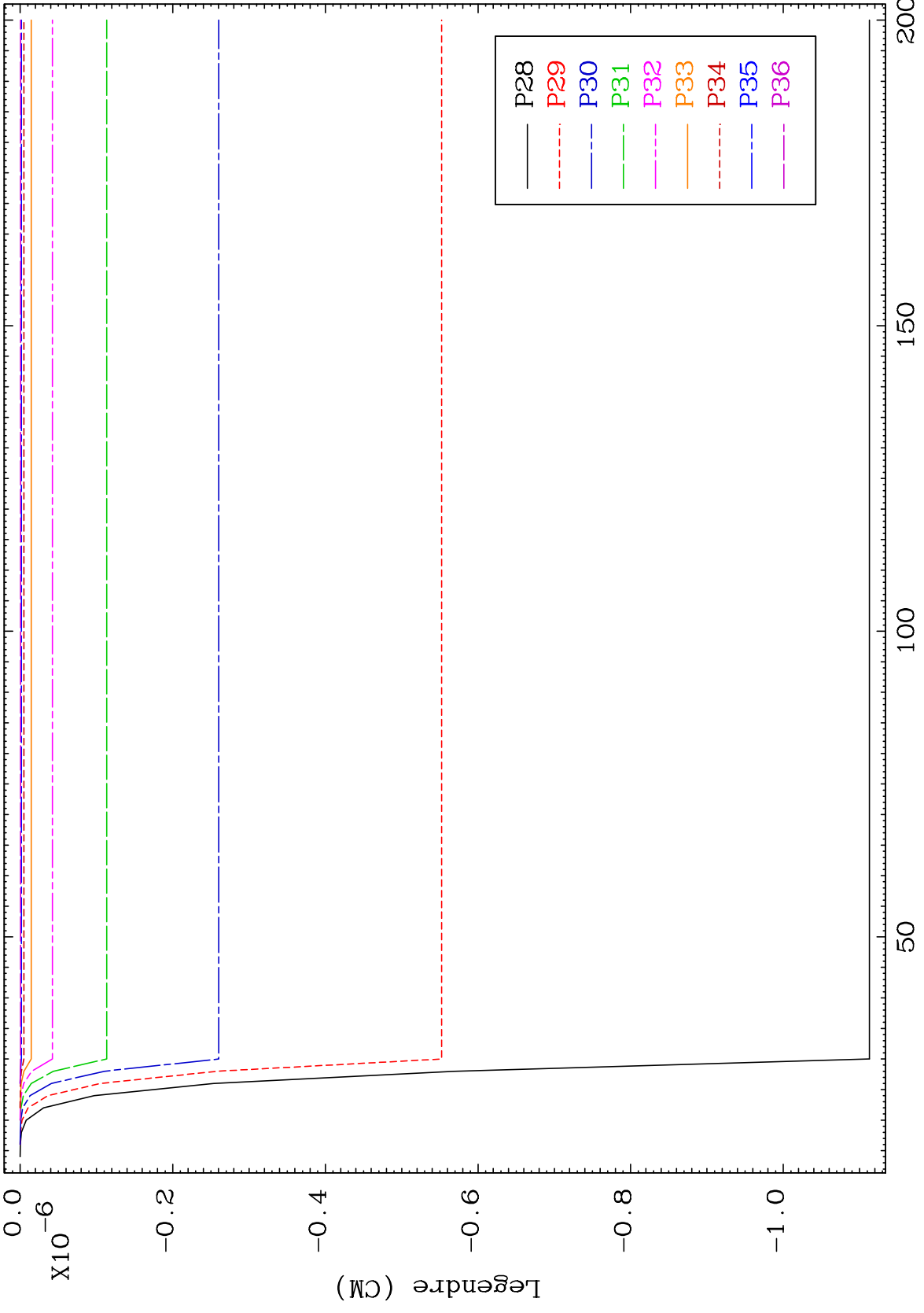
79-Au-191



58

79-Au-191

MAT 7907 MT= 60 (n,n') Level Legendre Coefficients 79-Au-191

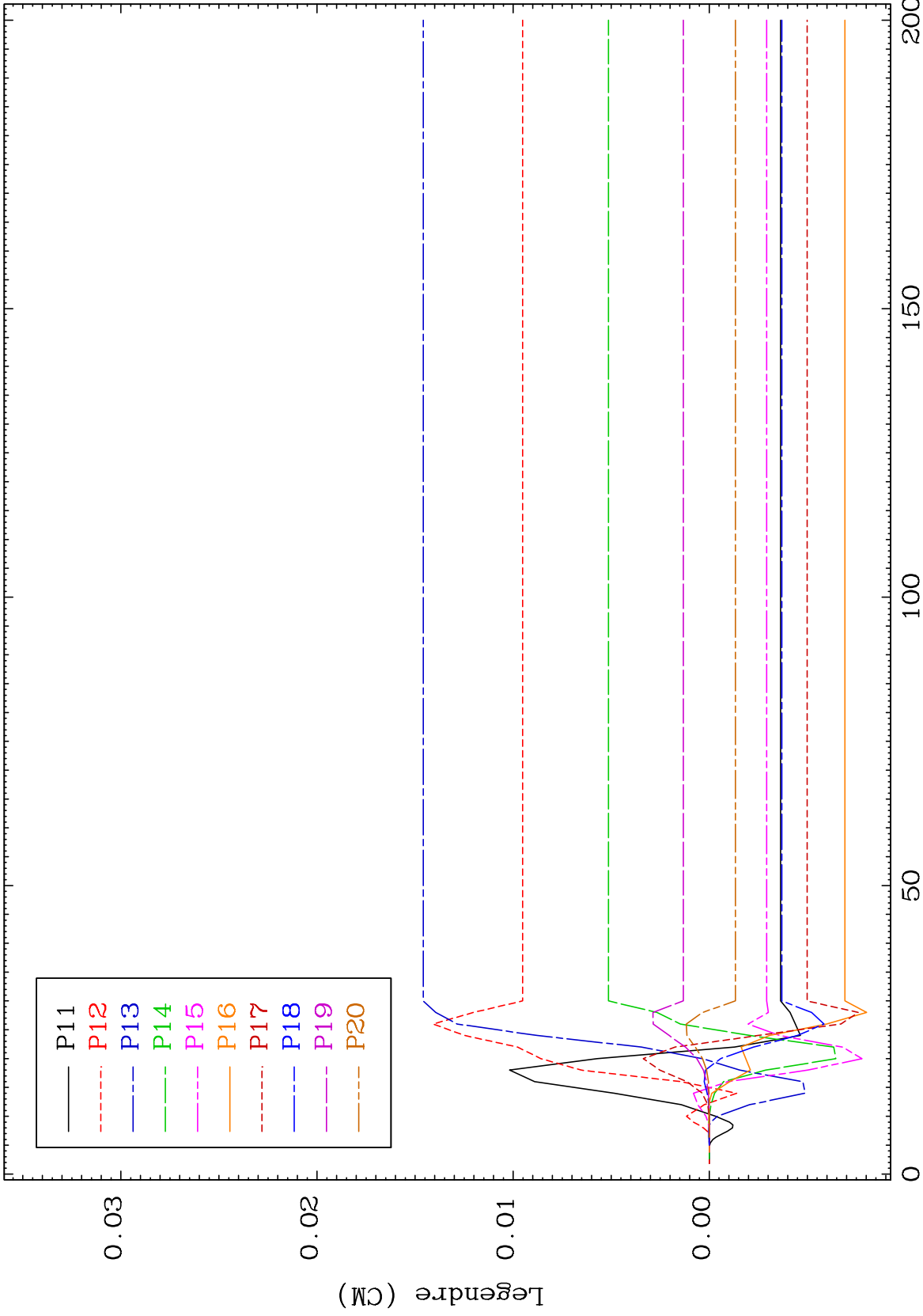


59 79-Au-191

MAT 7907

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

79-Au-191



61

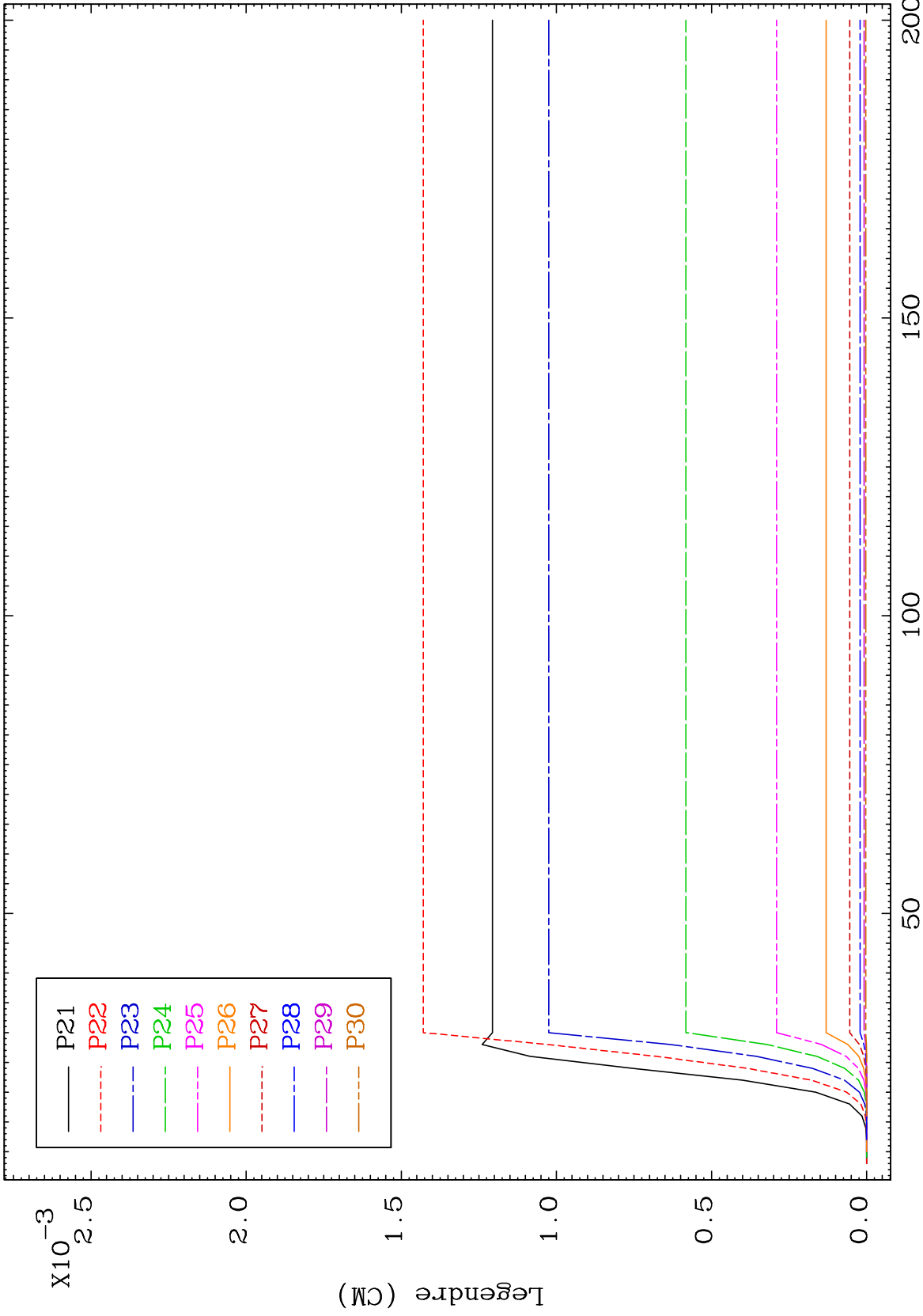
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



62

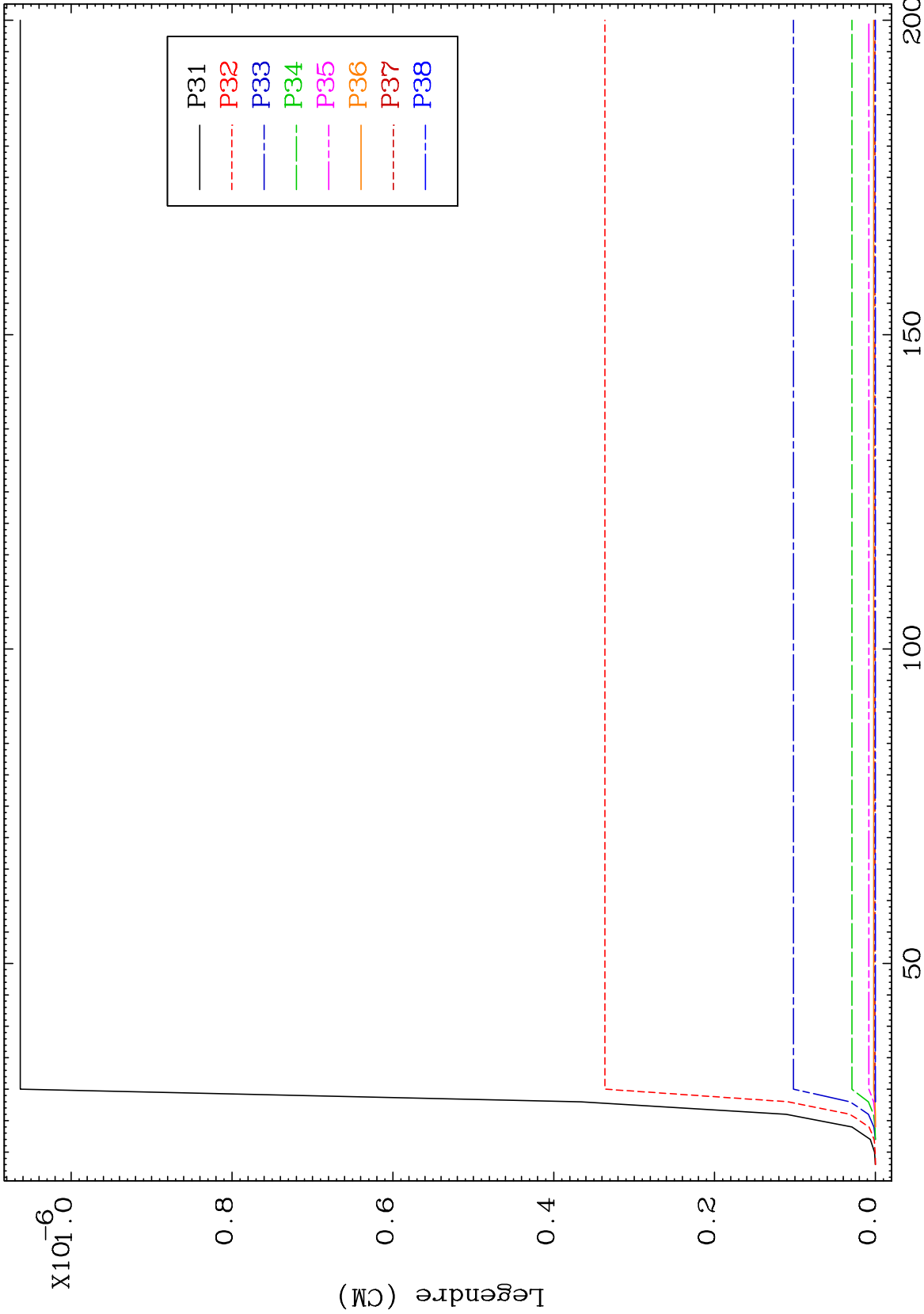
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



63

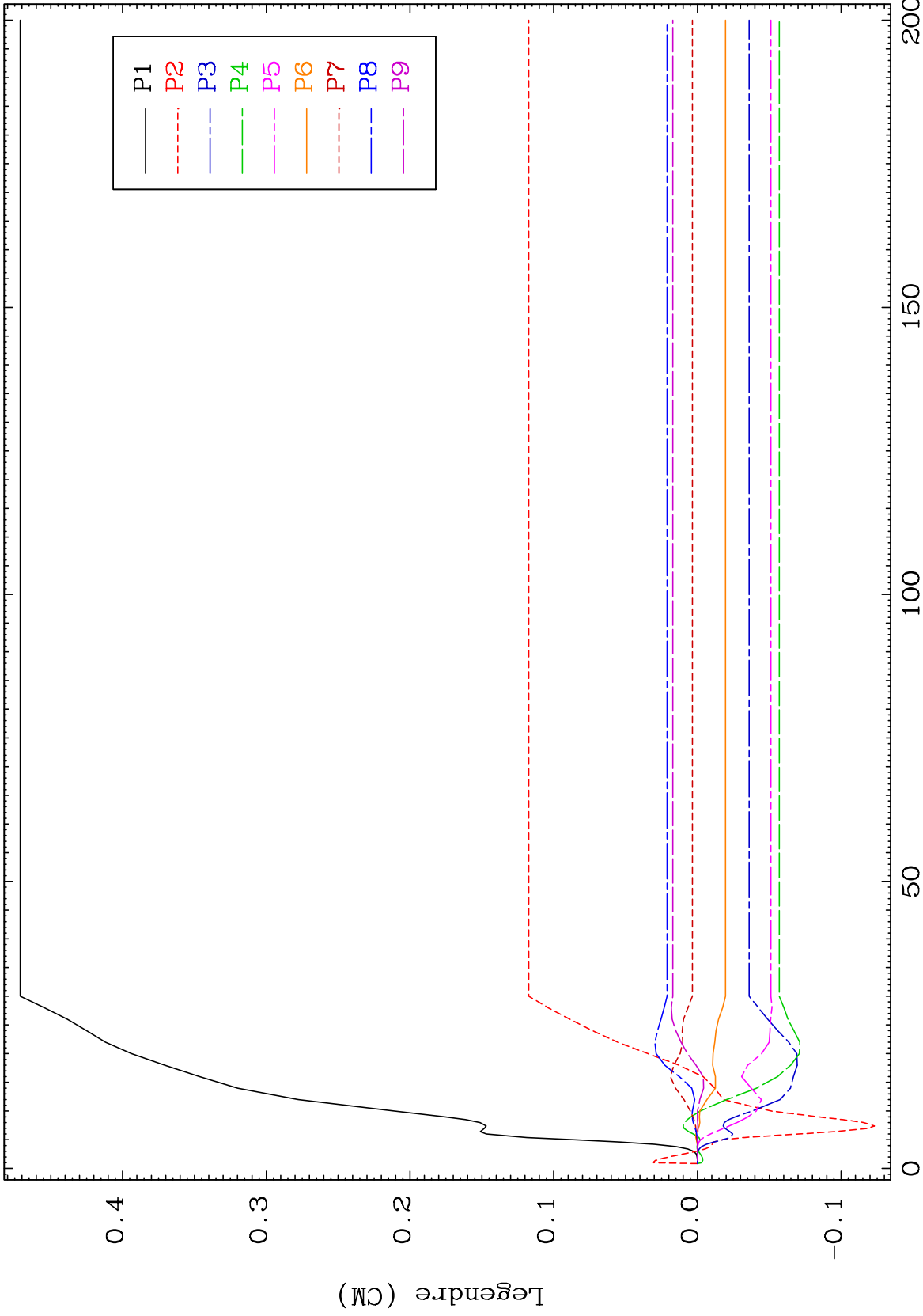
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



64

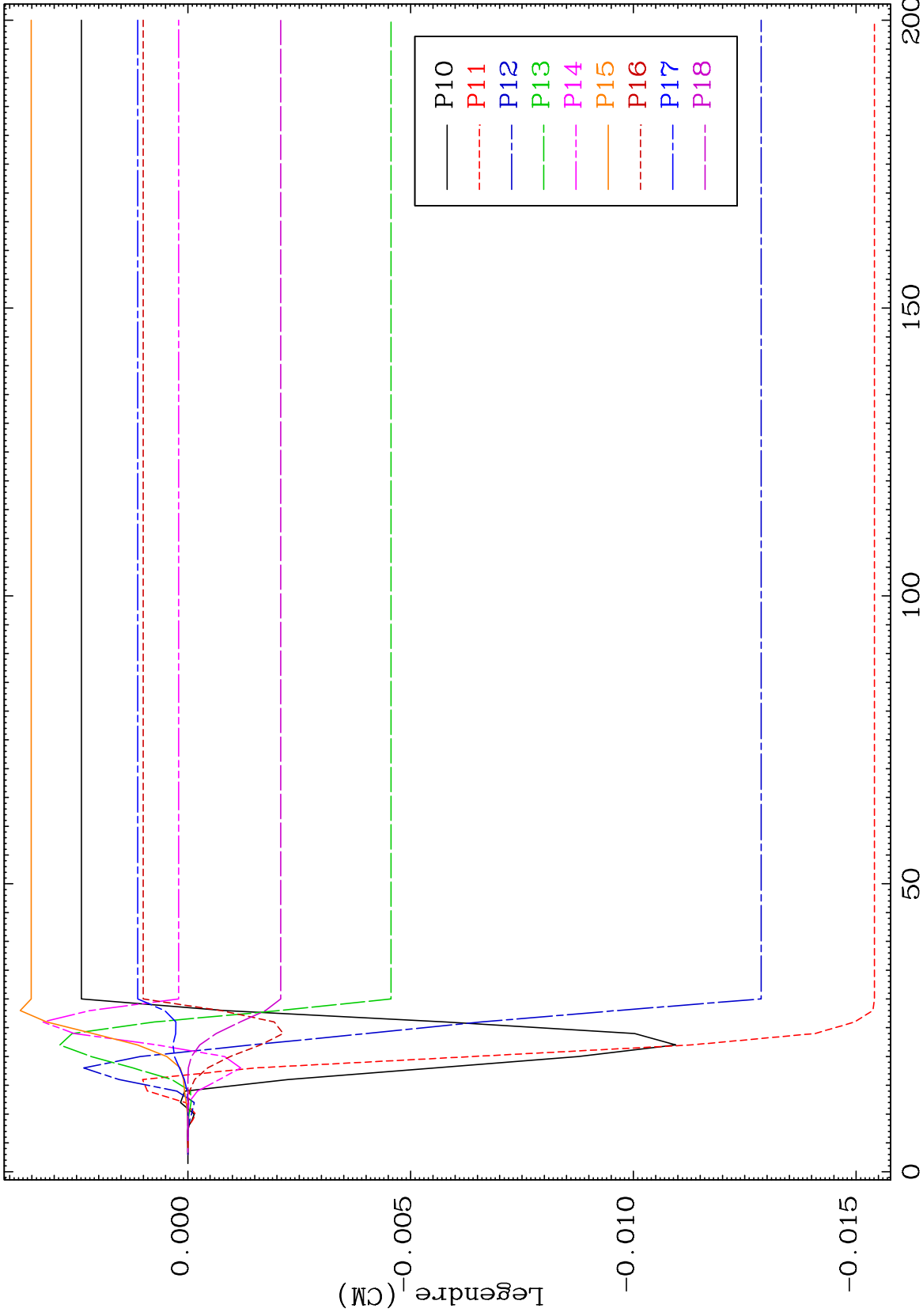
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



65

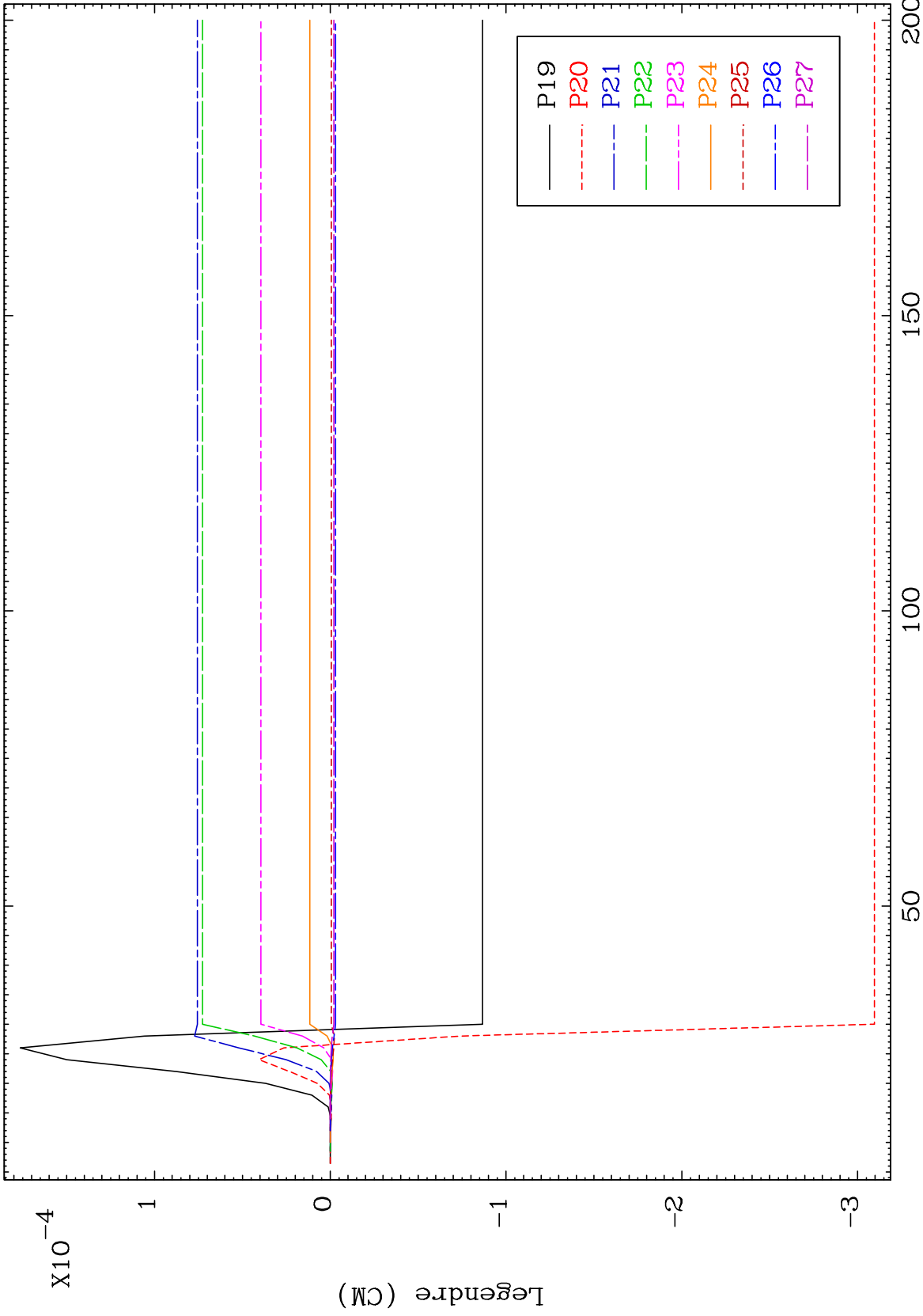
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191

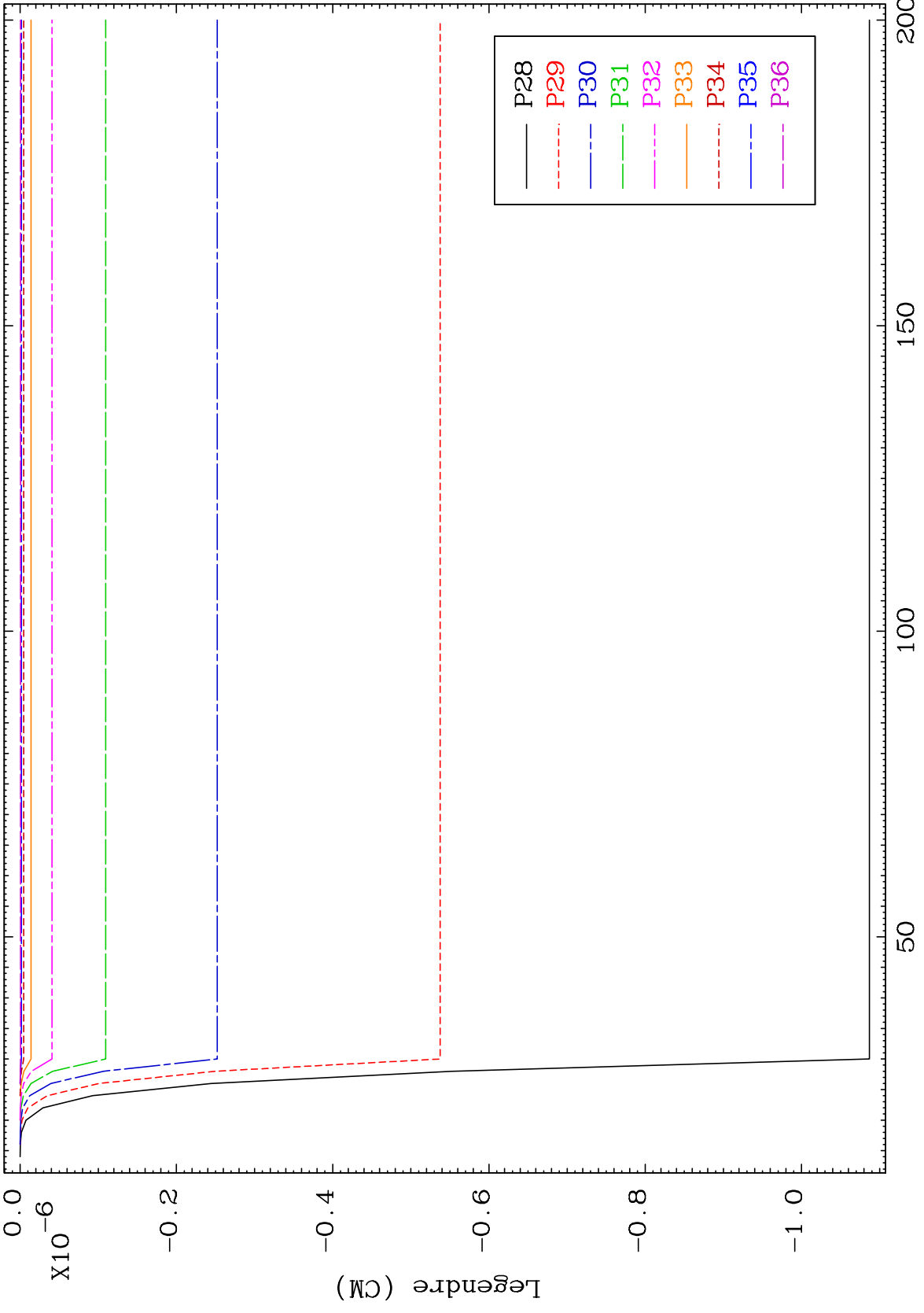


66

Incident Energy (MeV)

79-Au-191

MAT 7907 MT= 62 (n,n') Level Legendre Coefficients 79-Au-191

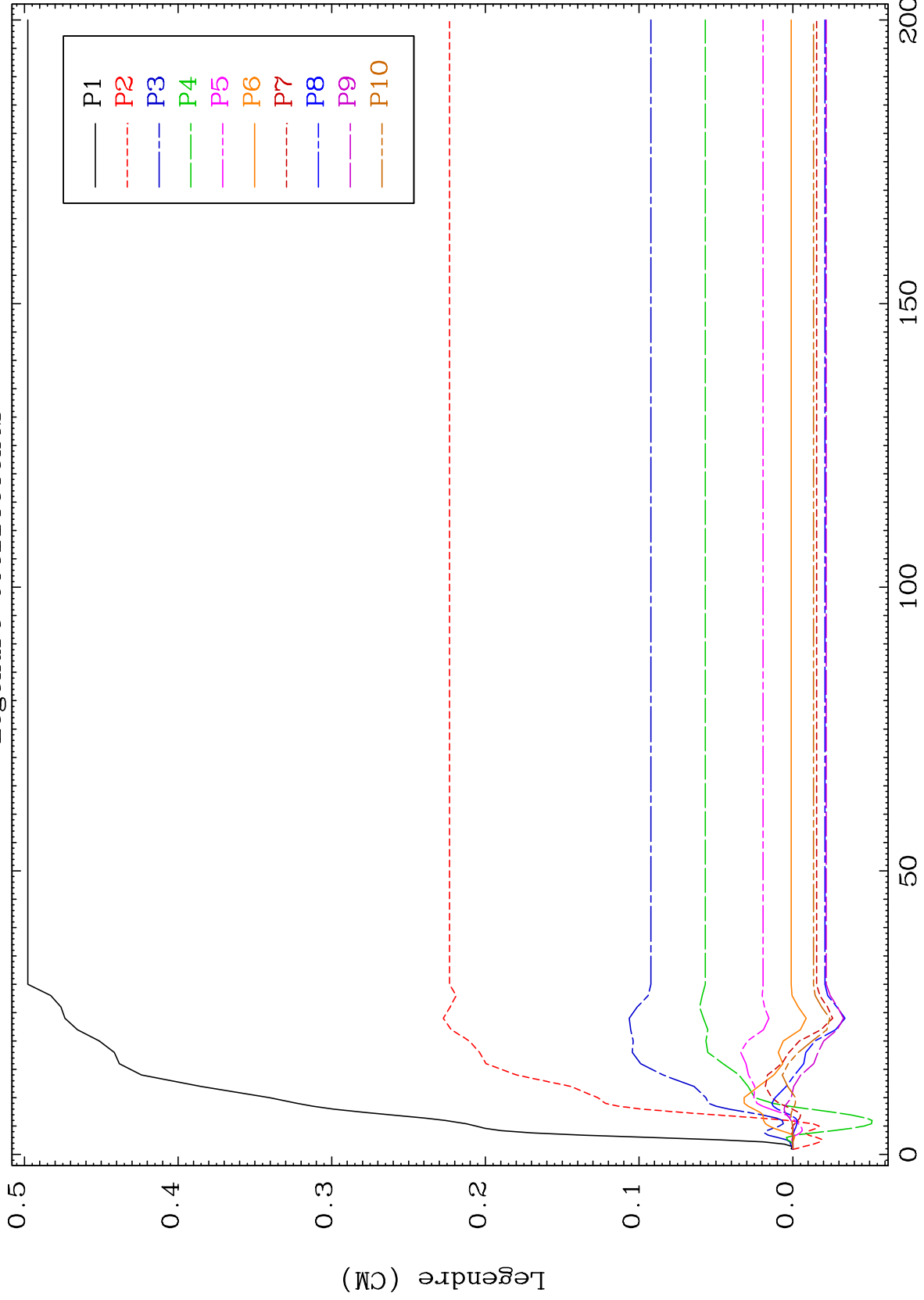


67 79-Au-191

MAT 7907

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

79-Au-191



68

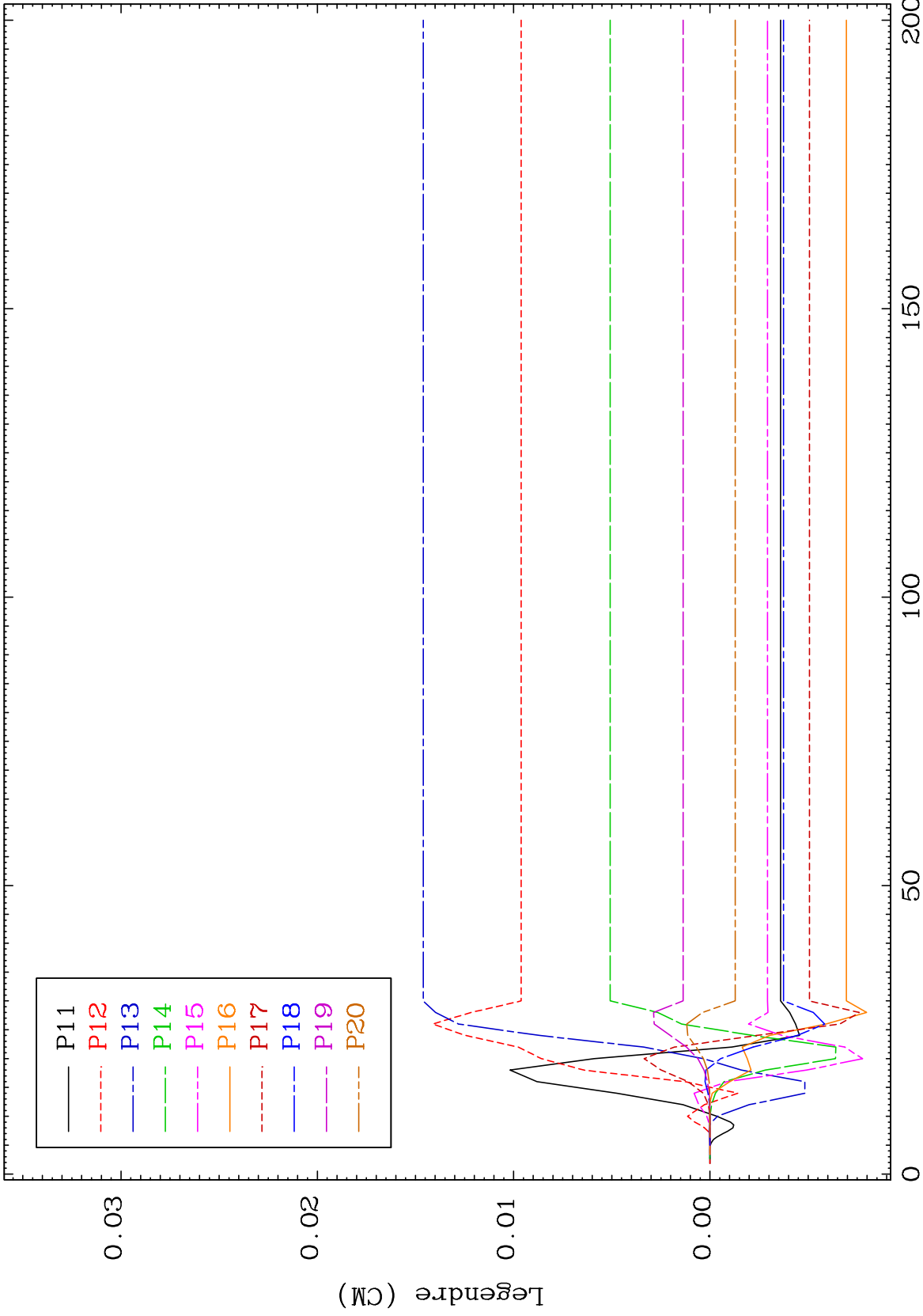
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



69

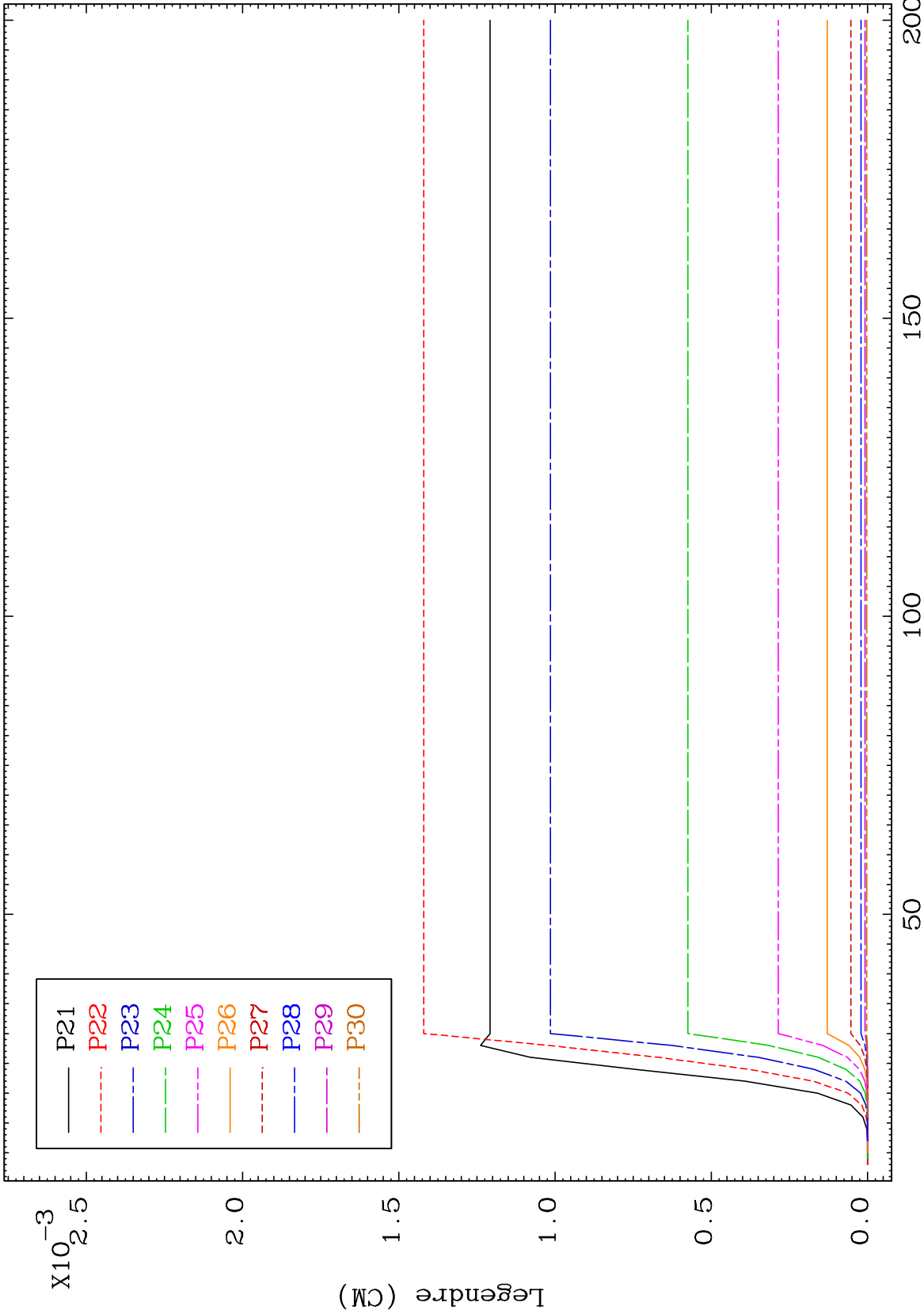
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



70

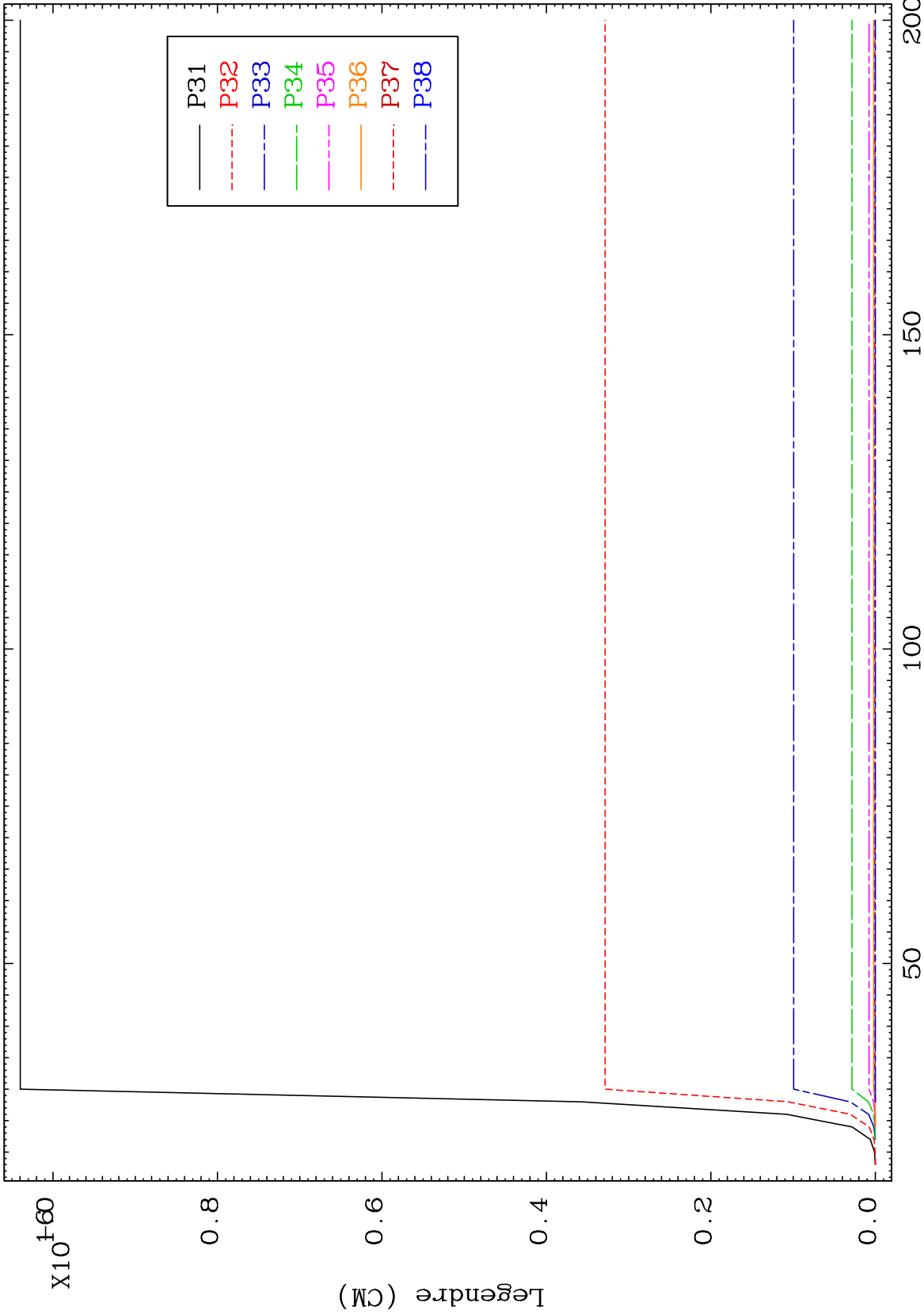
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



71

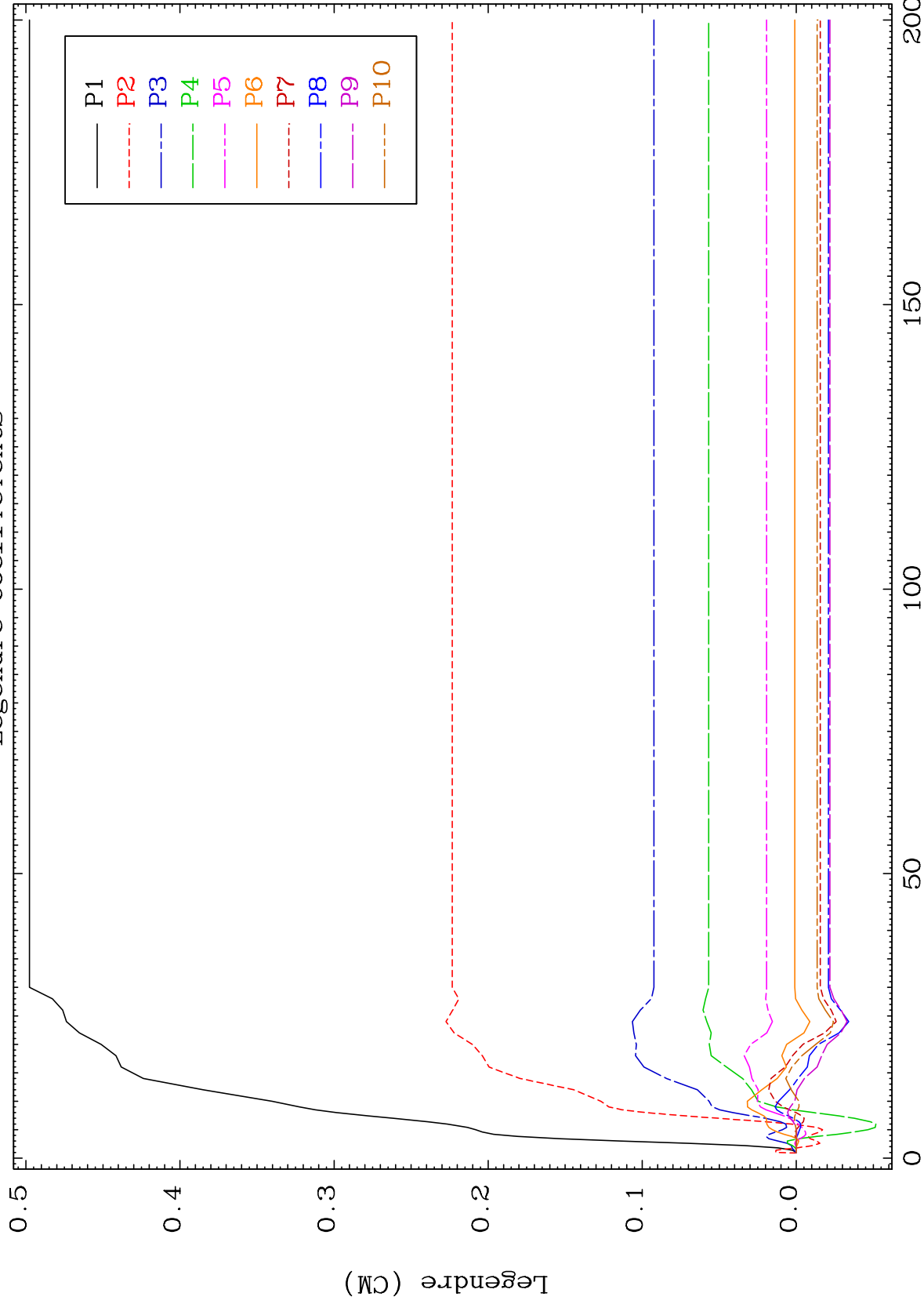
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



72

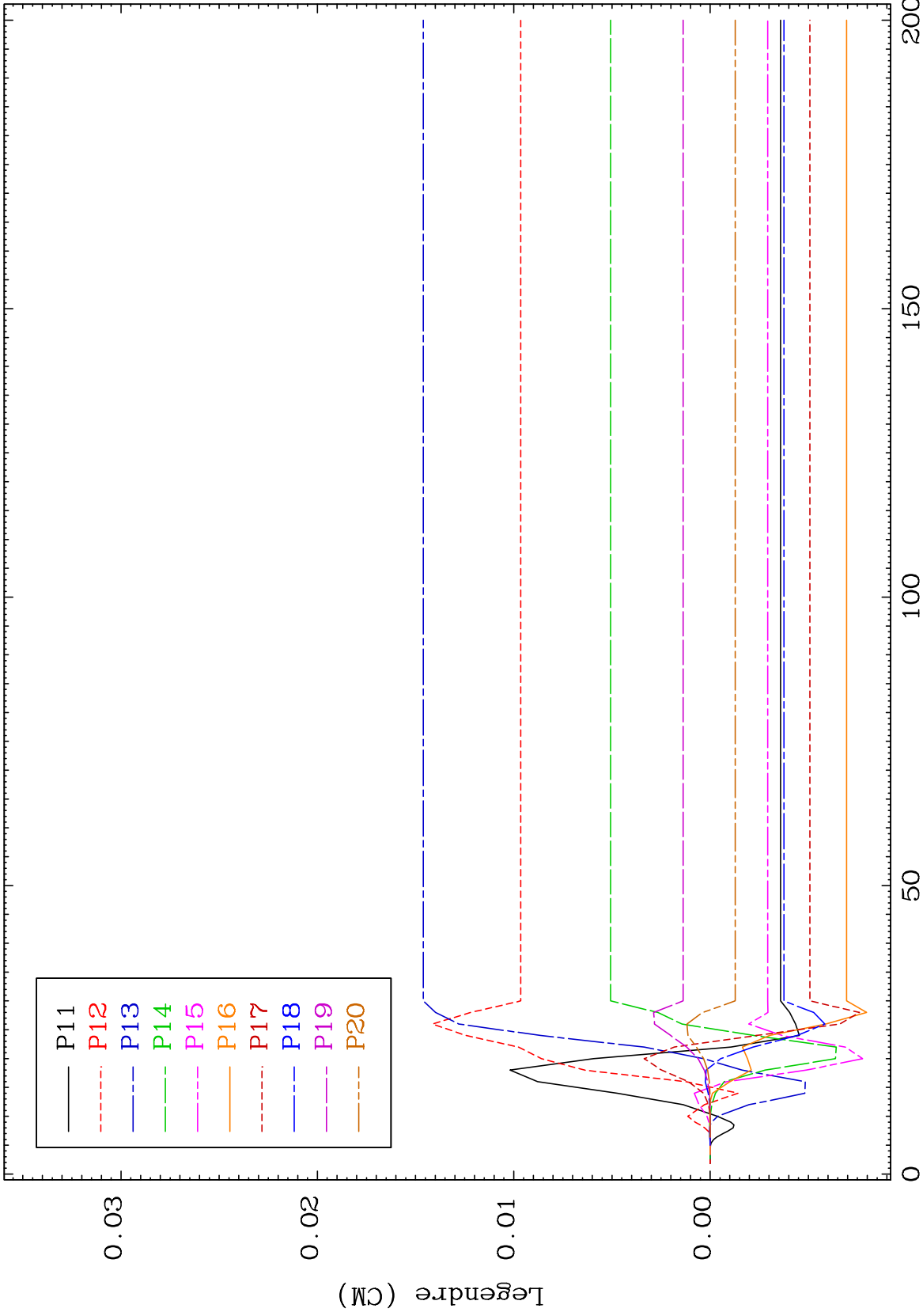
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



73

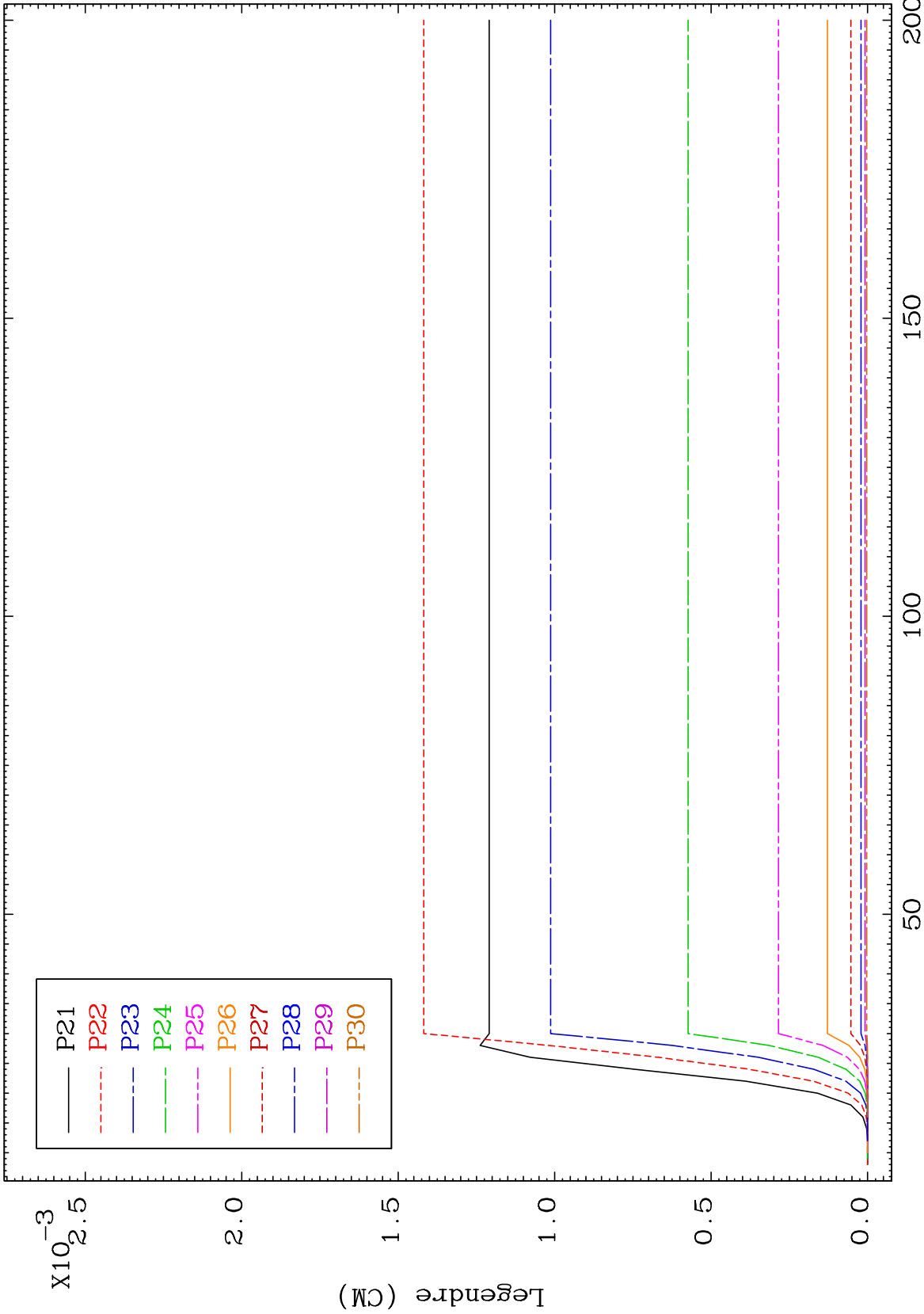
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



74

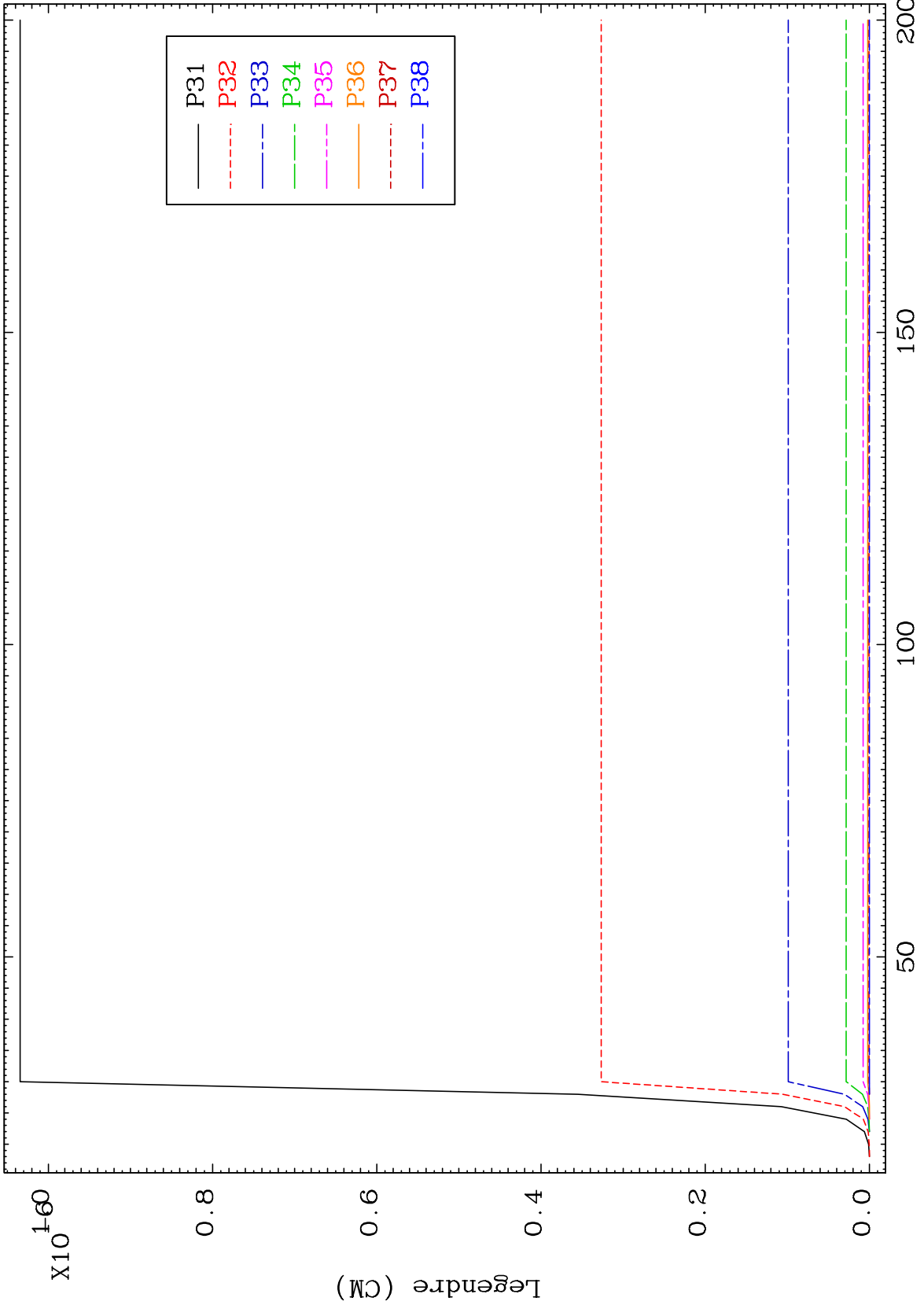
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



75

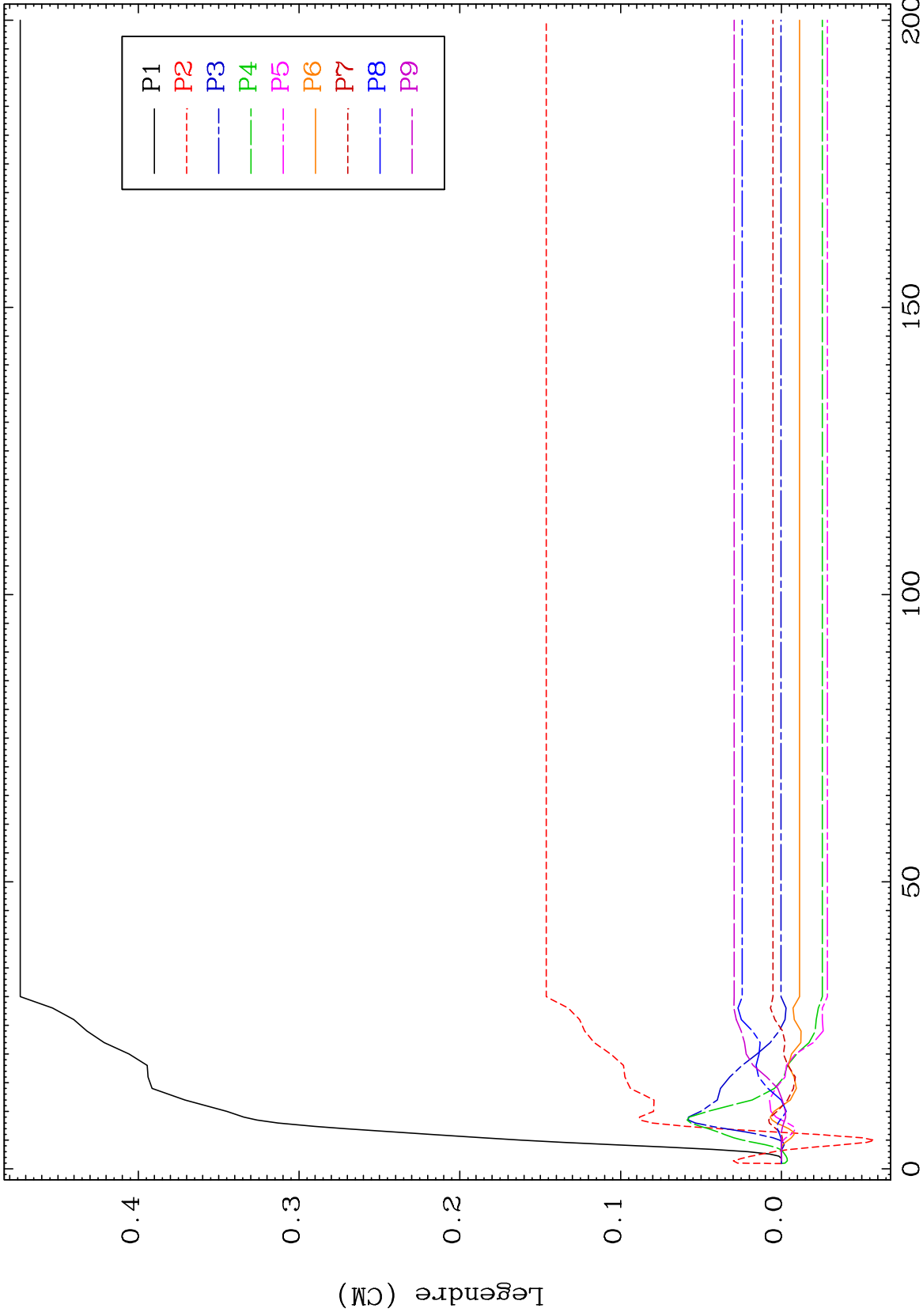
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



76

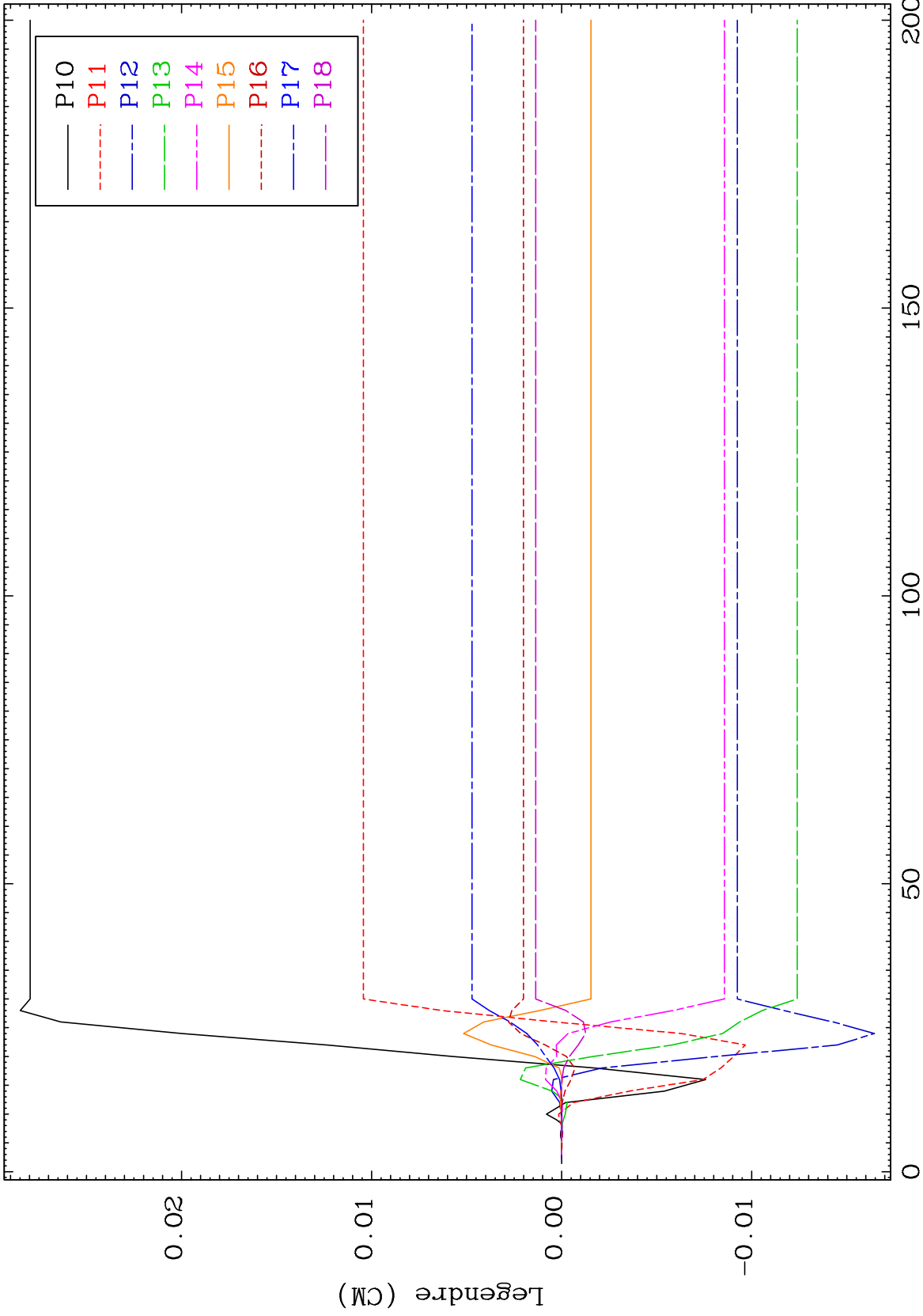
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



77

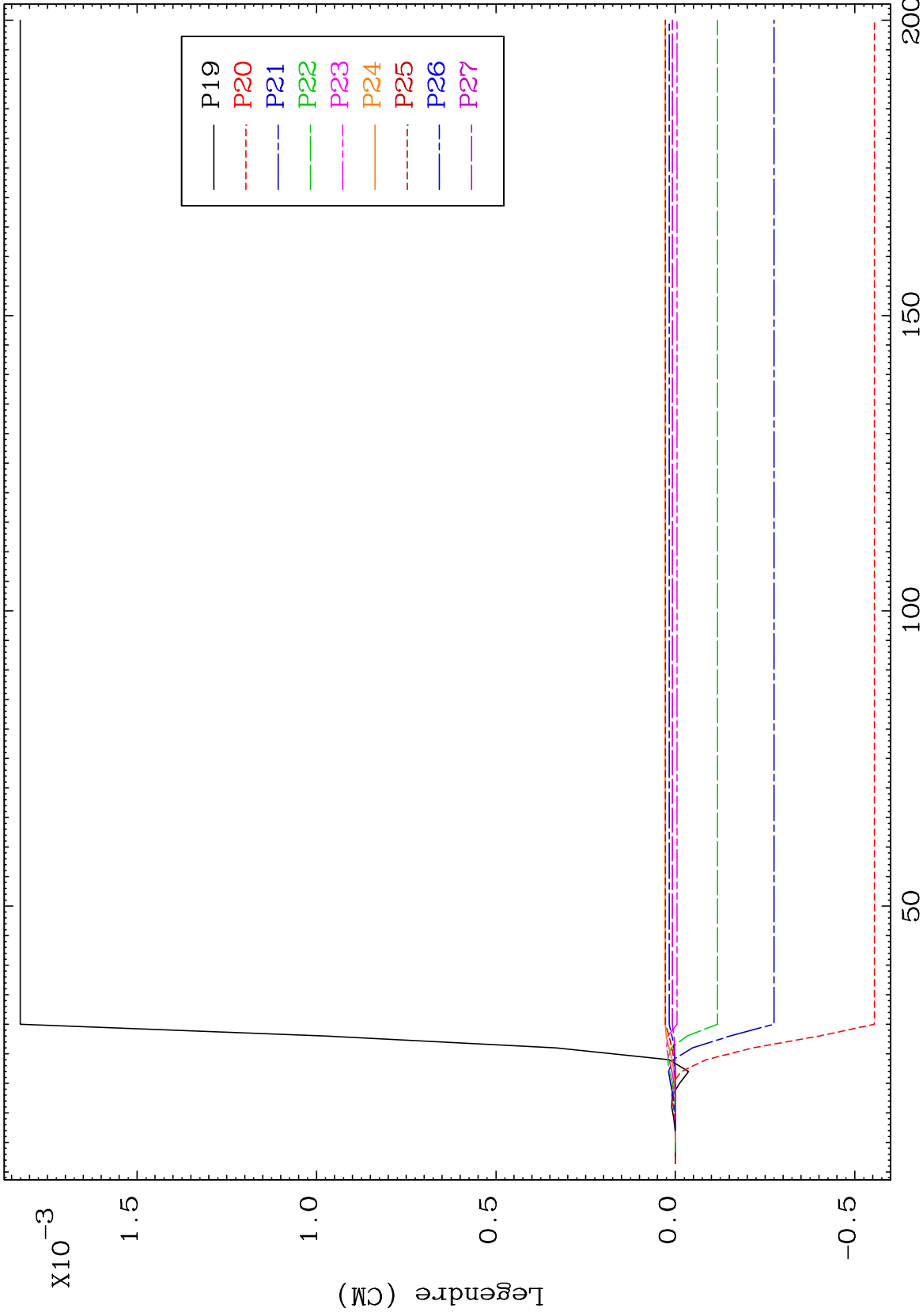
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



78

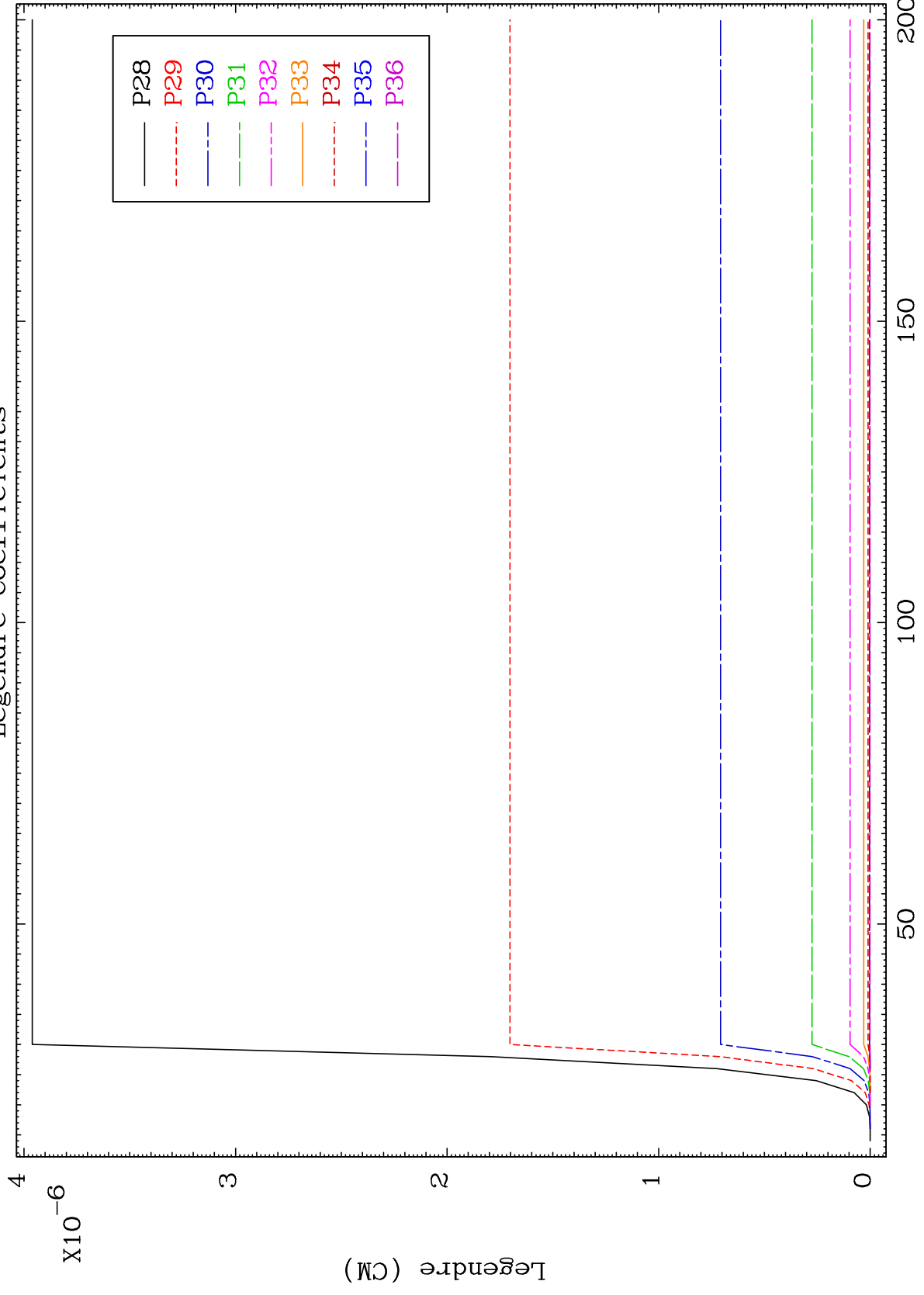
Incident Energy (MeV)

79-Au-191

MAT 7907

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

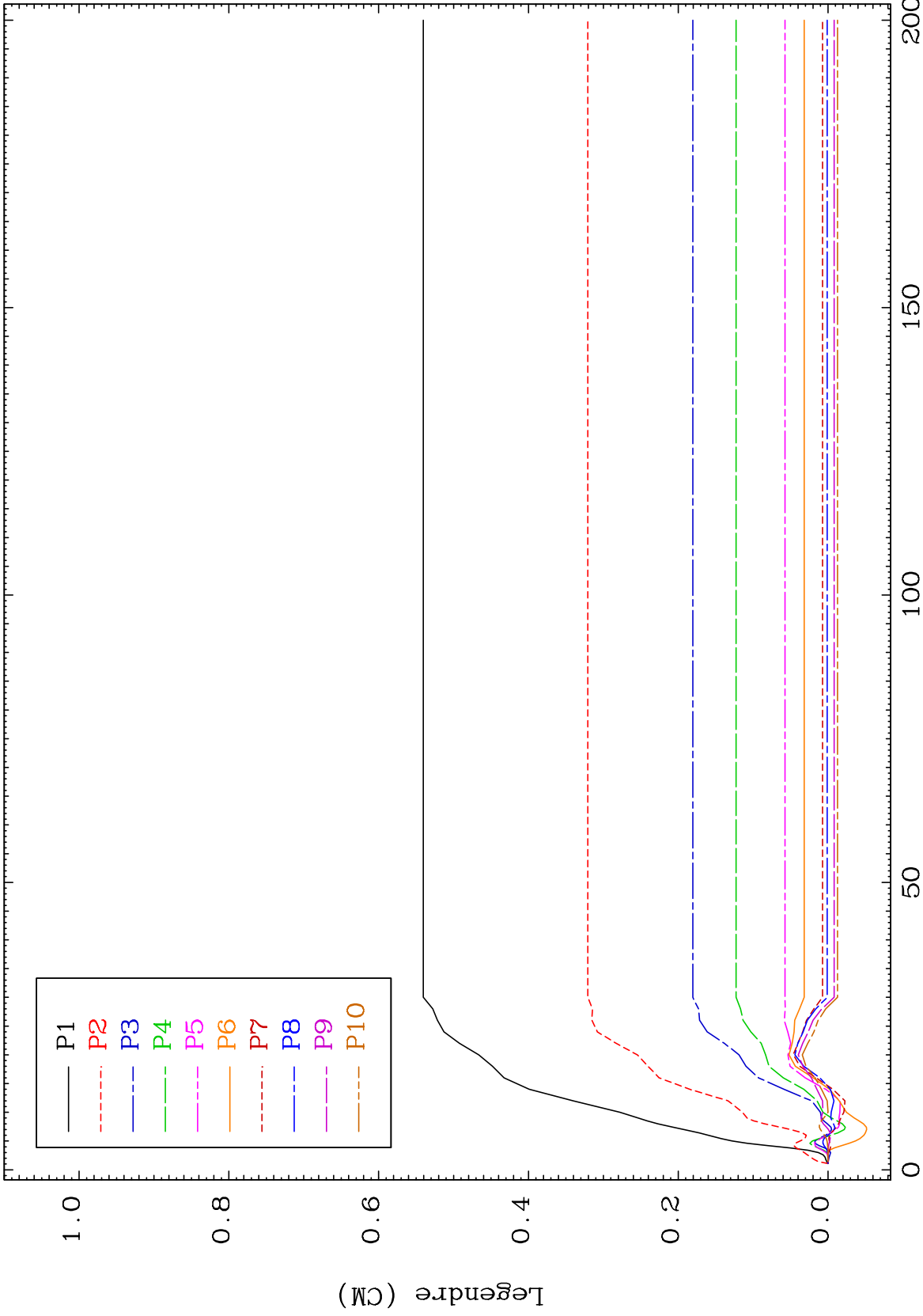
79-Au-191



MAT 7907

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

79-Au-191



79-Au-191

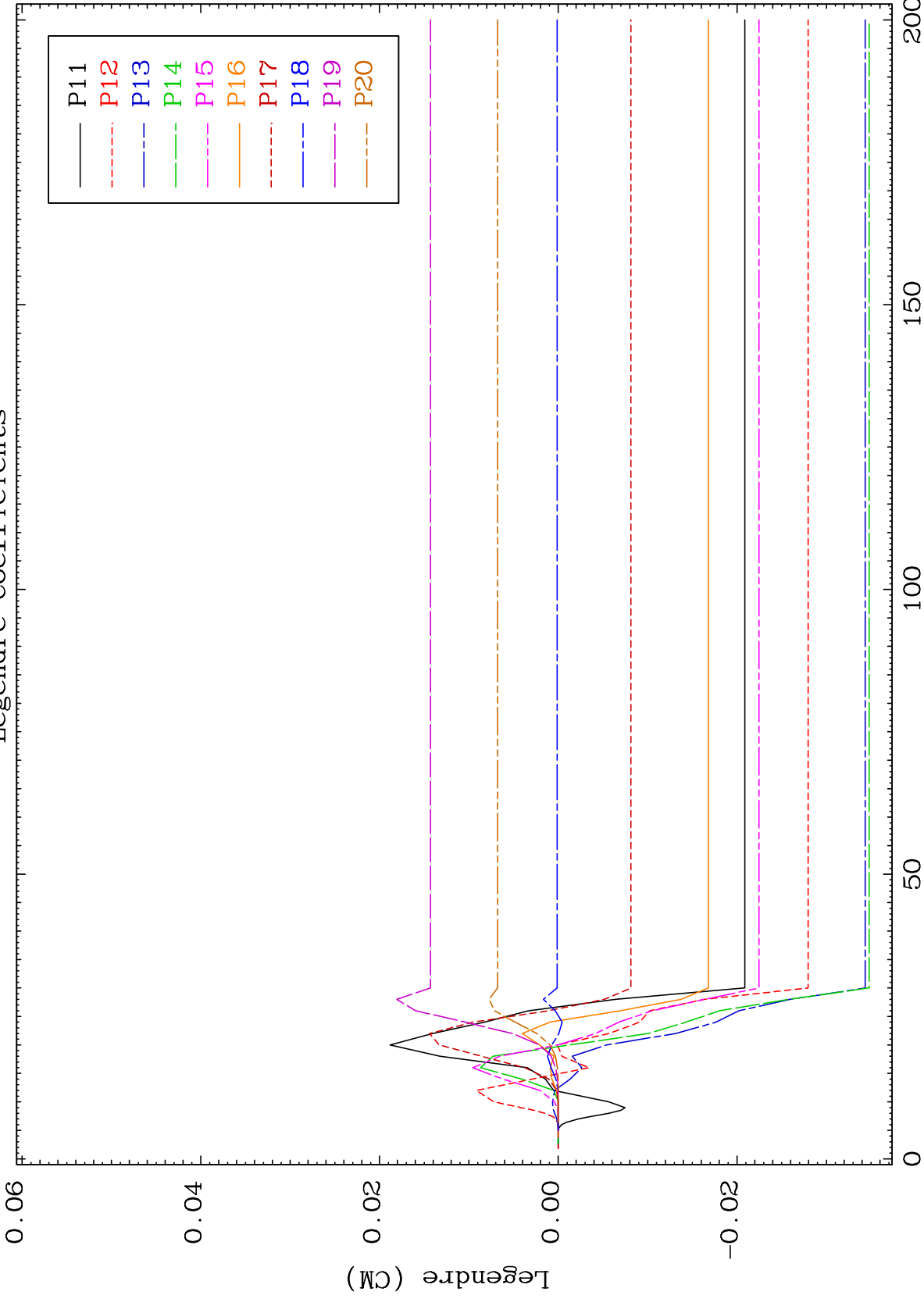
Incident Energy (MeV)

80

MAT 7907

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

79-Au-191



81

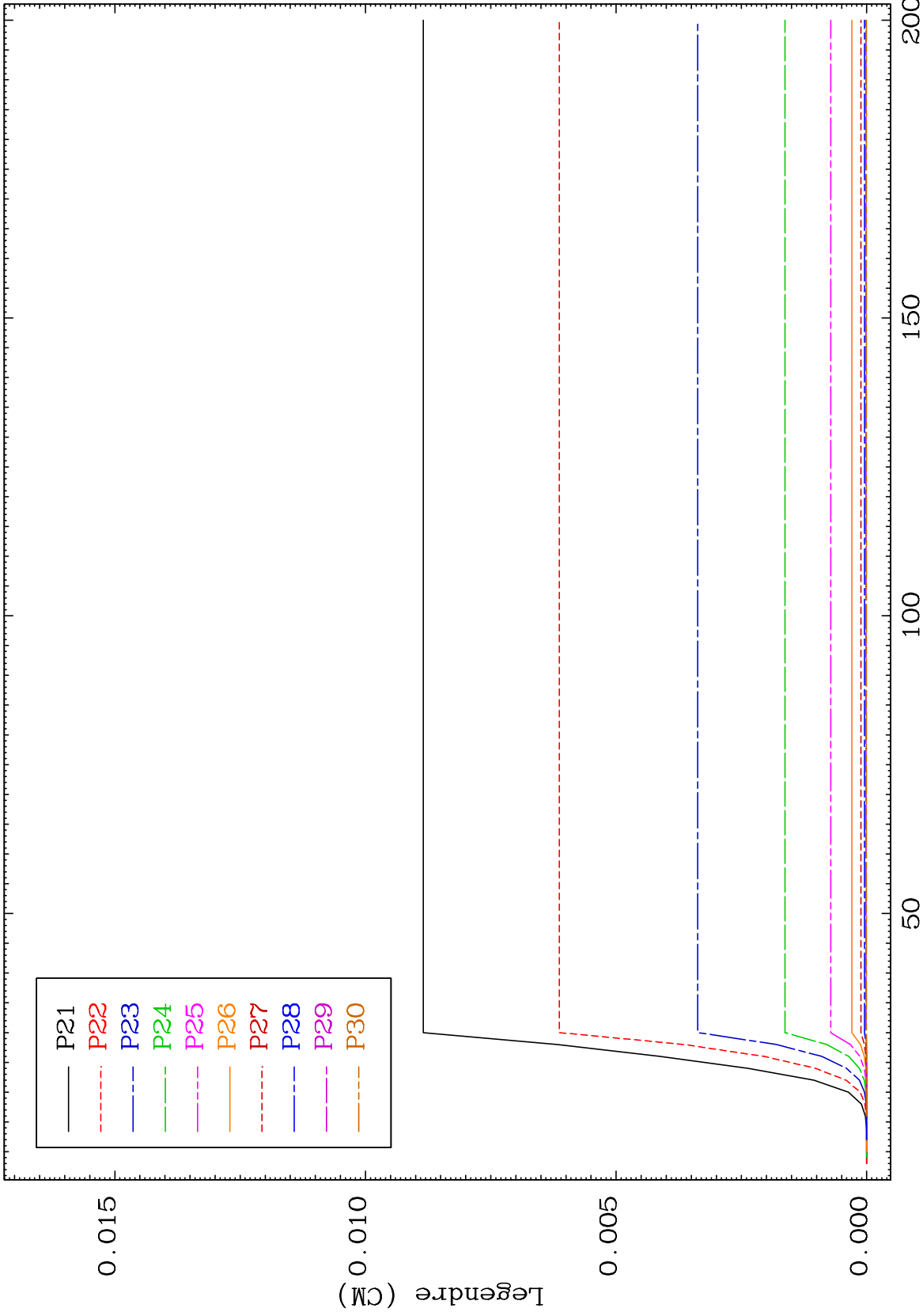
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



82

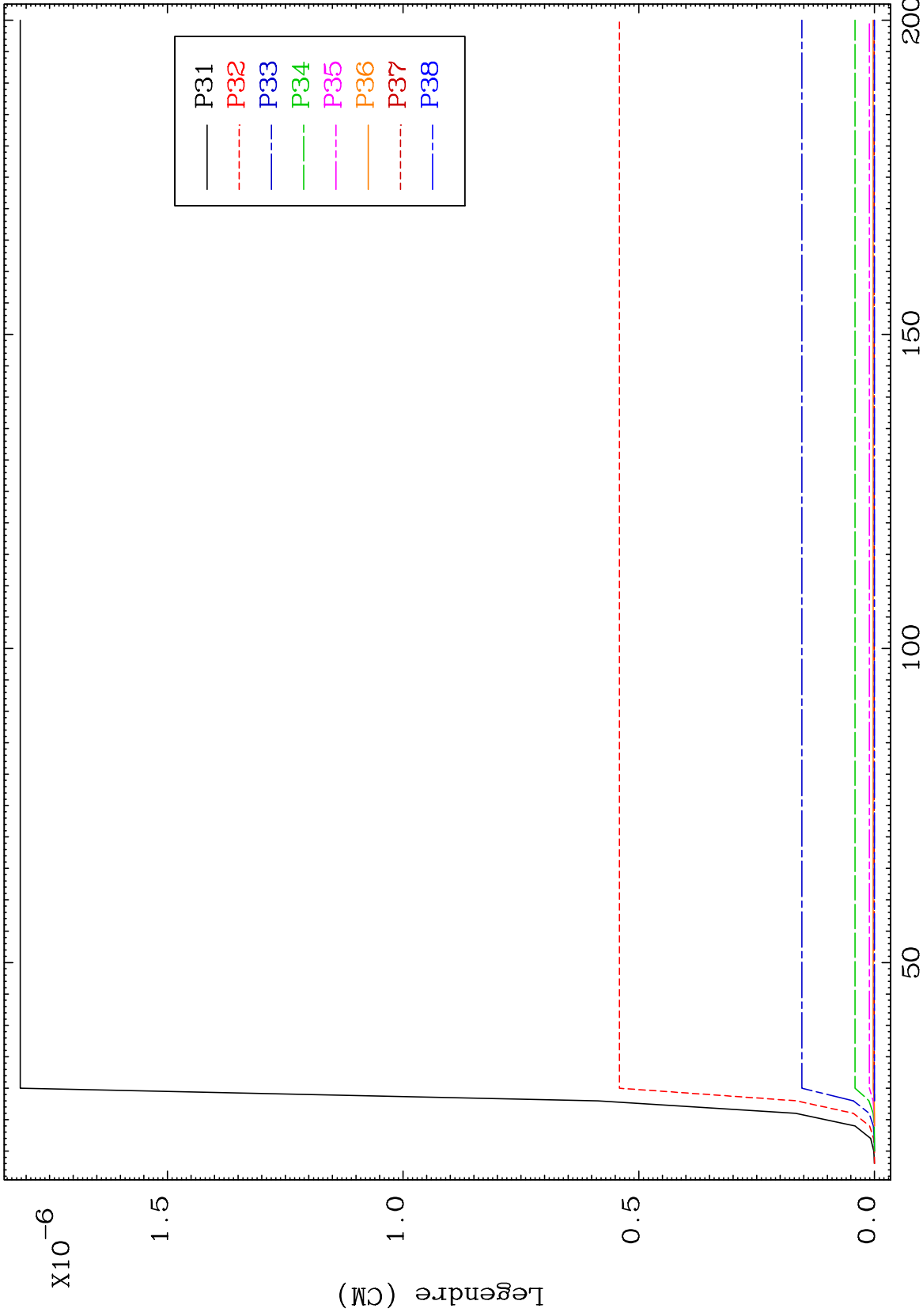
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



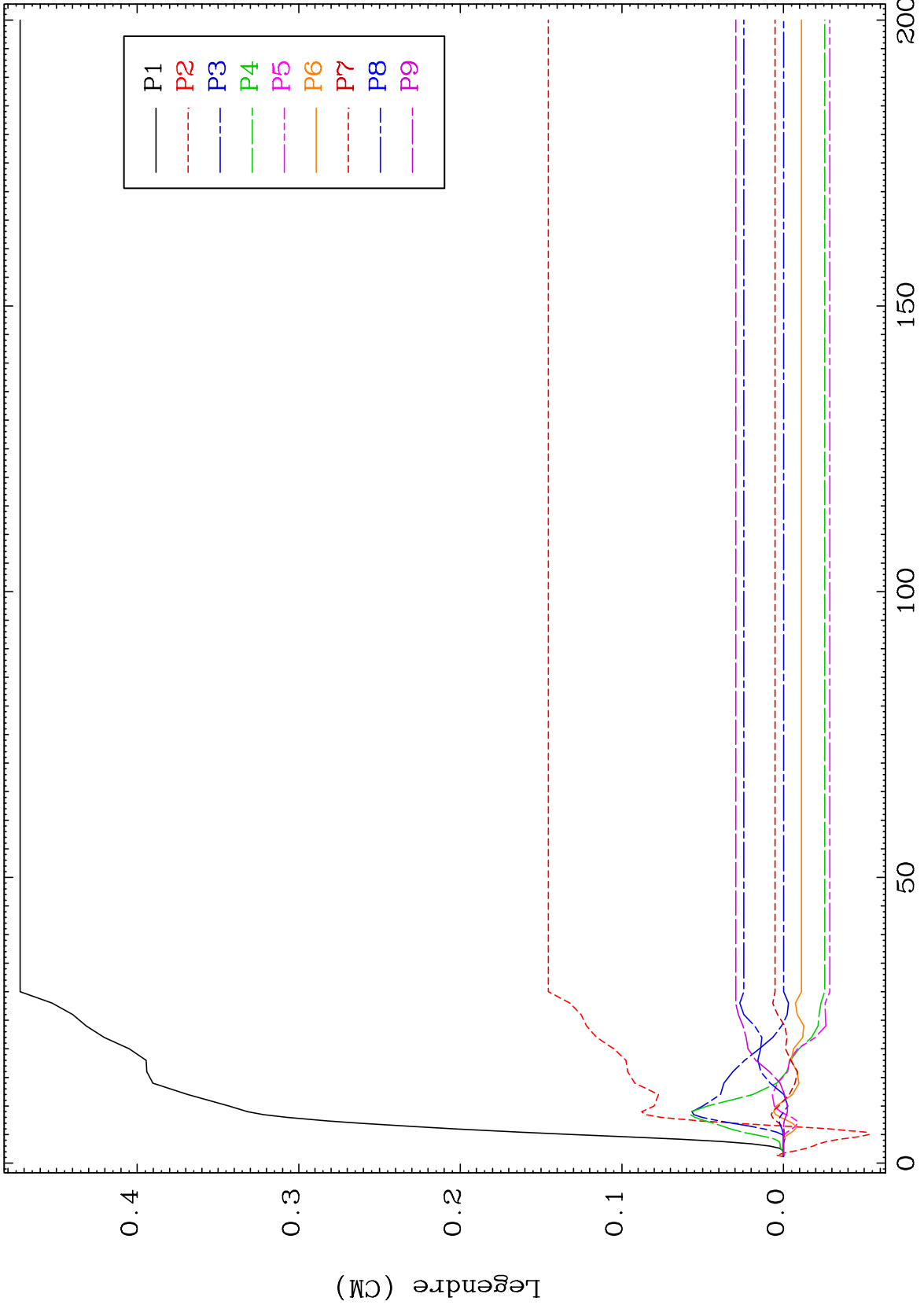
83

79-Au-191

MAT 7907

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

79-Au-191



84

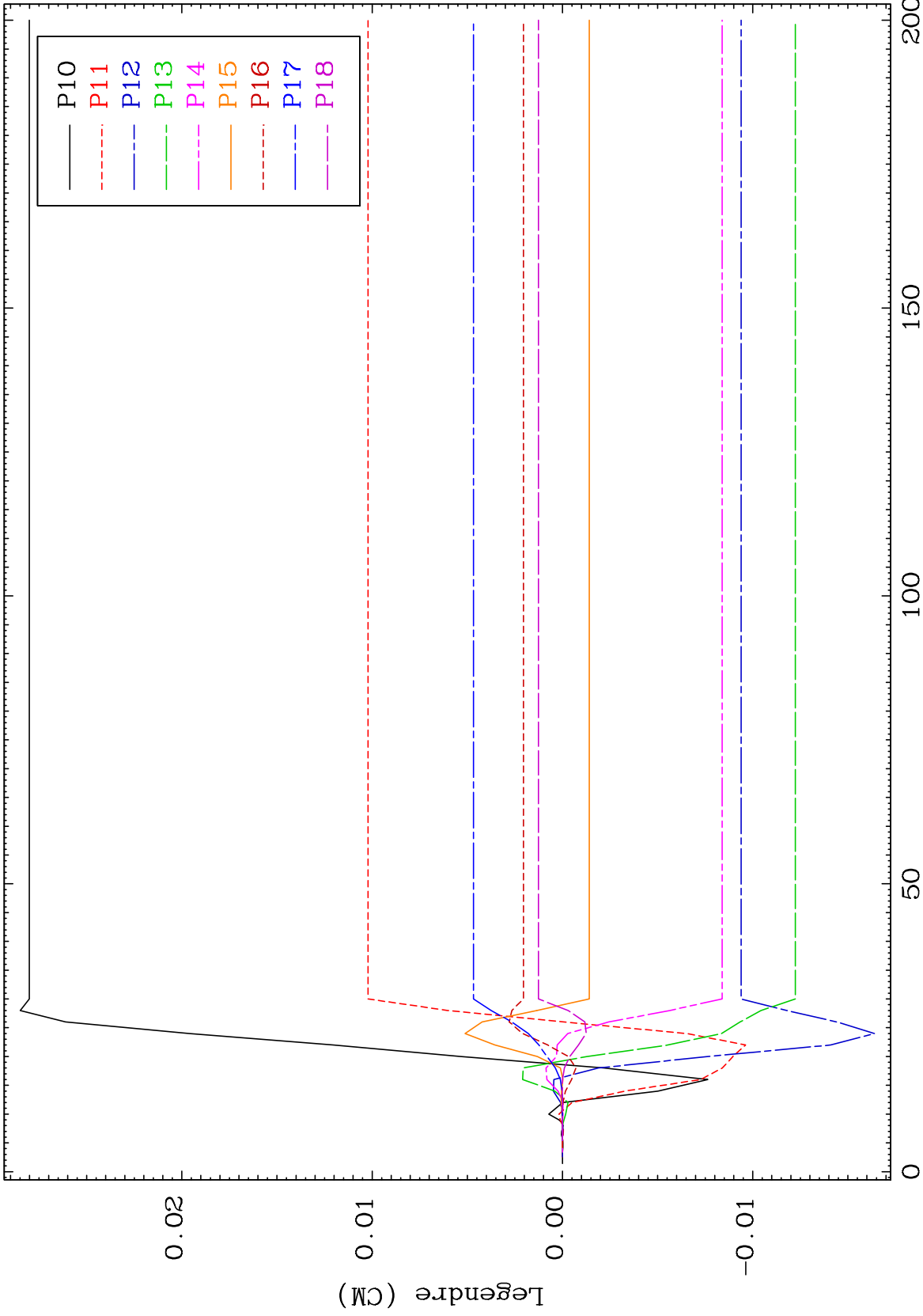
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



85

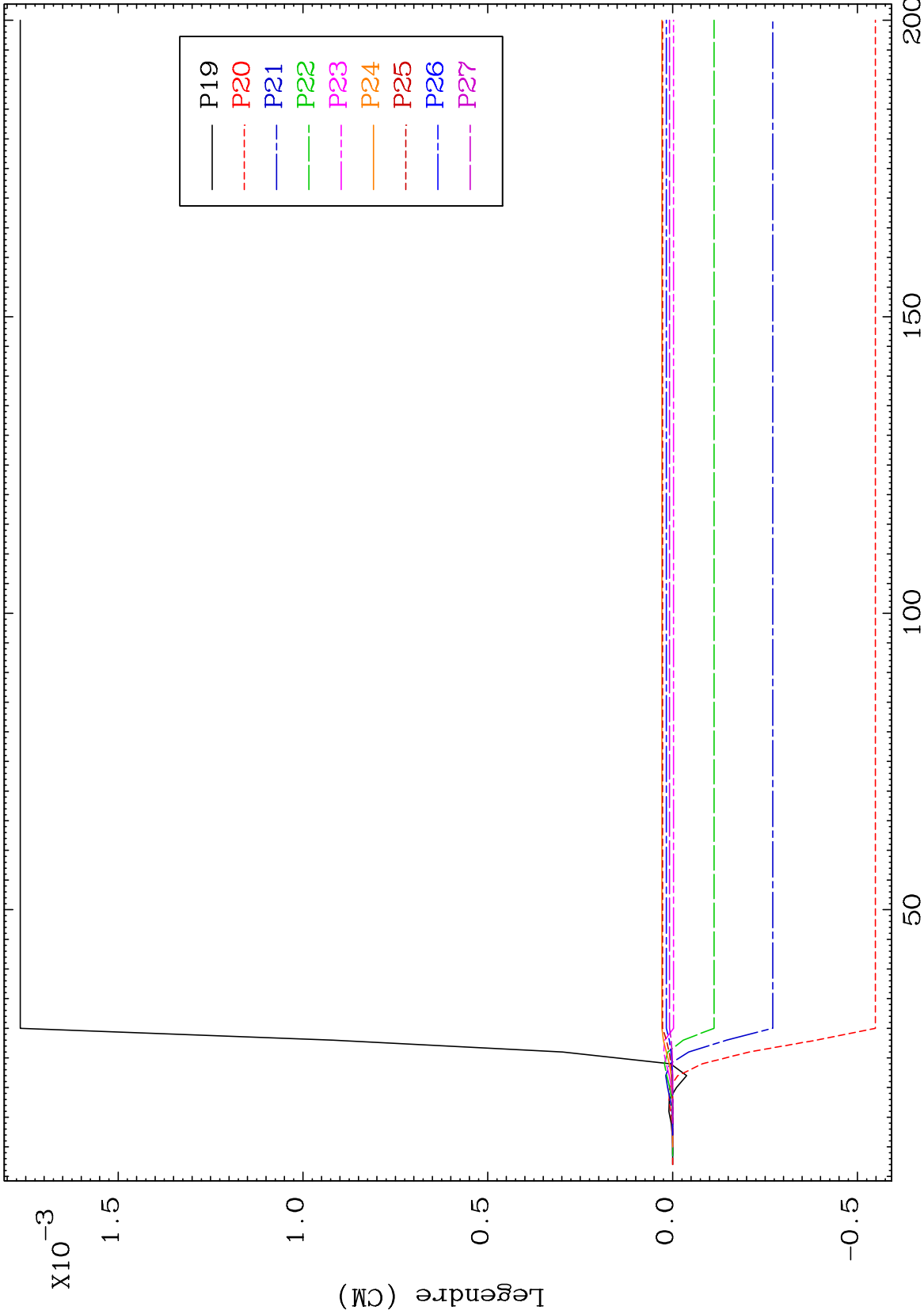
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



86

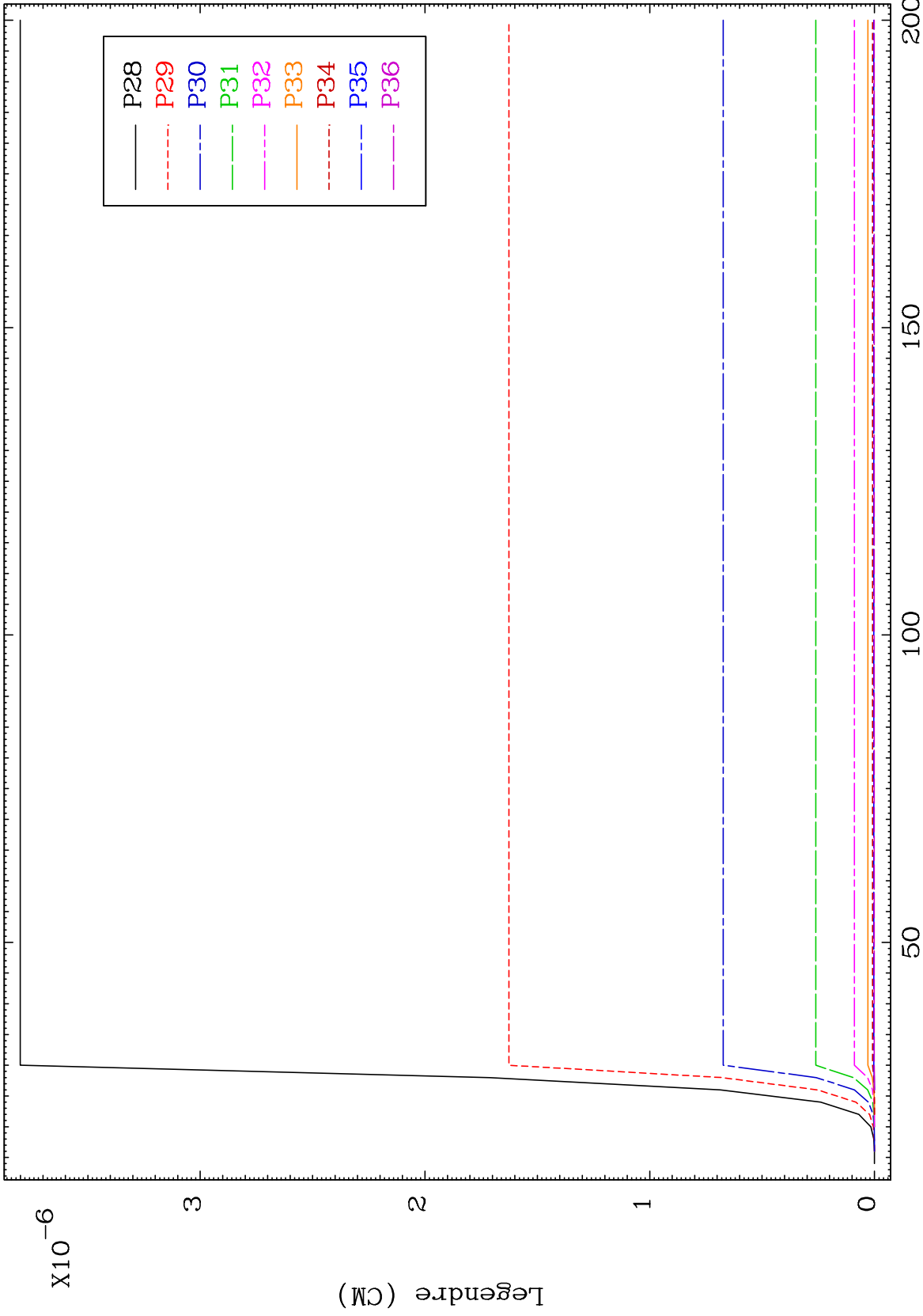
Incident Energy (MeV)

79-Au-191

MAT 7907

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

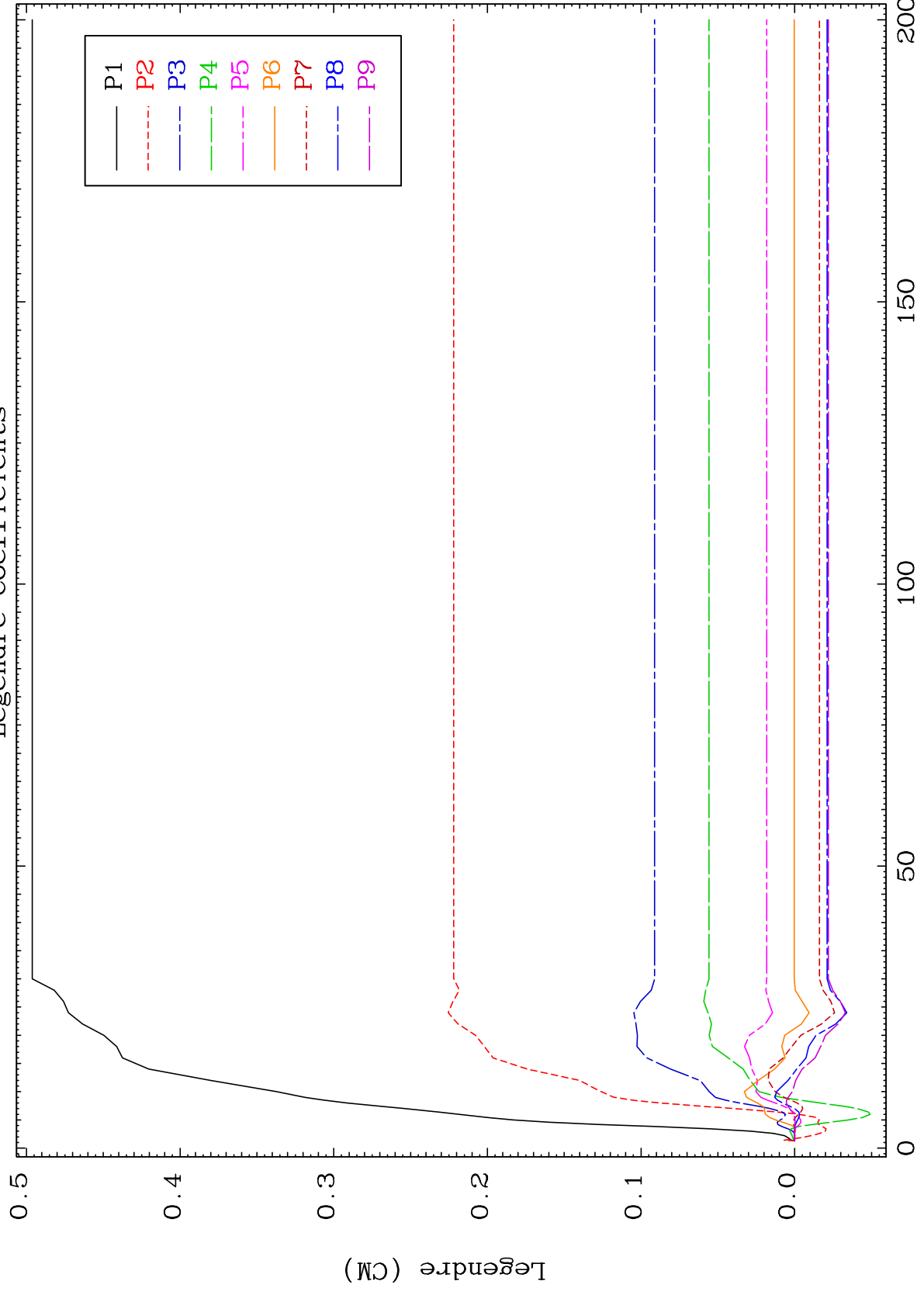
79-Au-191



87

79-Au-191

MAT 7907 MT= 68 (n,n') Level Legendre Coefficients 79-Au-191

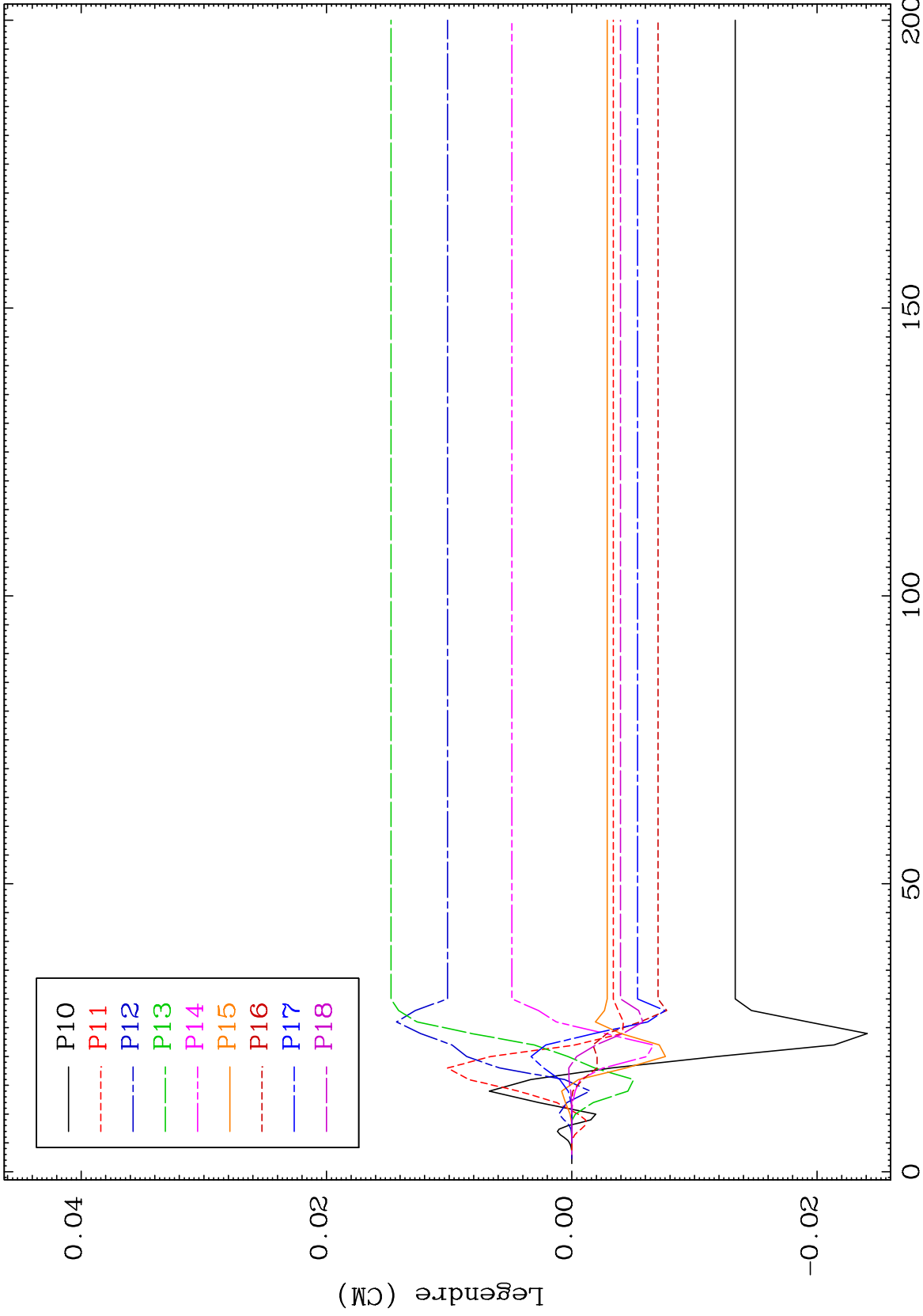


88 Incident Energy (MeV) 79-Au-191

MAT 7907

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

79-Au-191



89

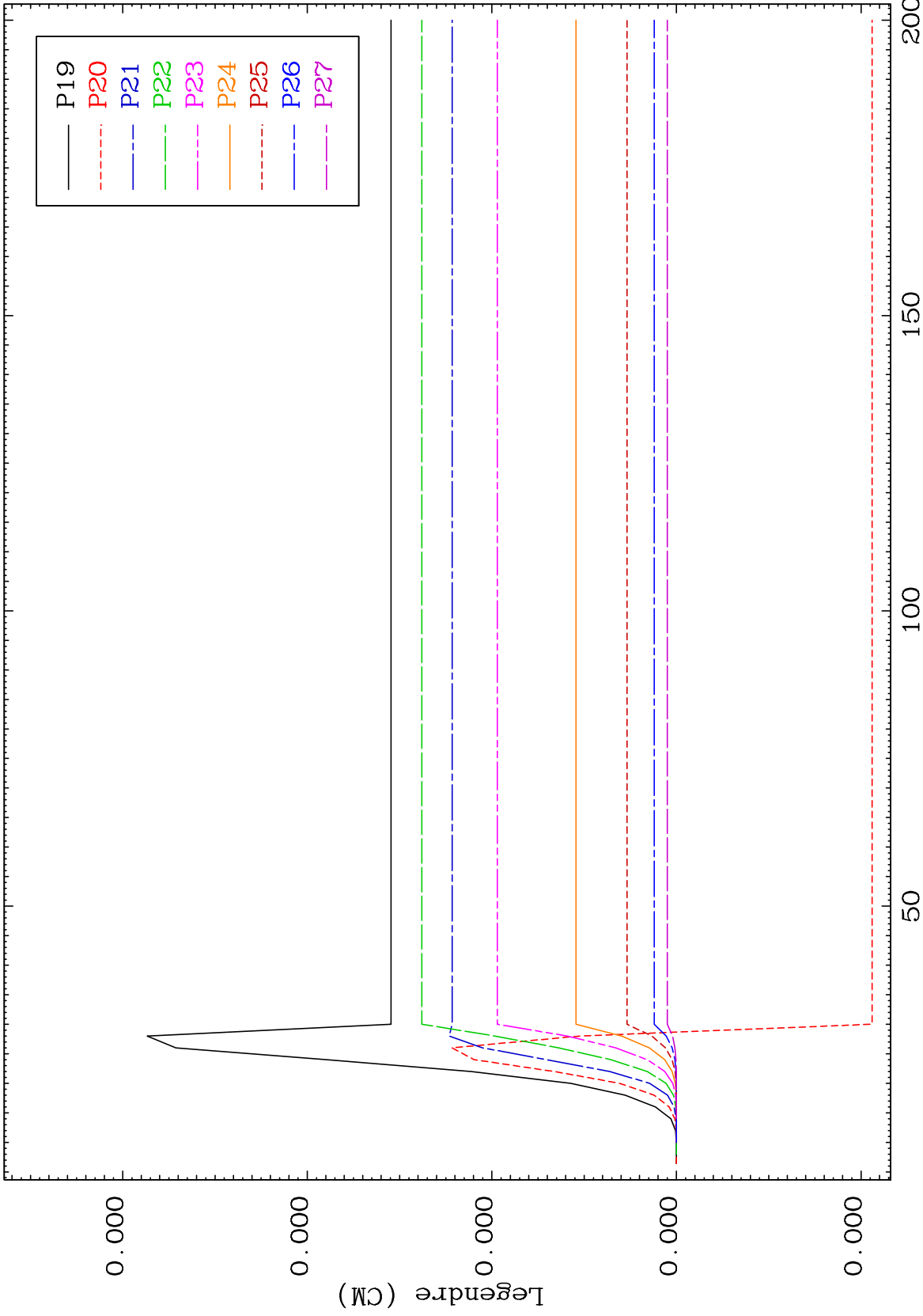
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



90

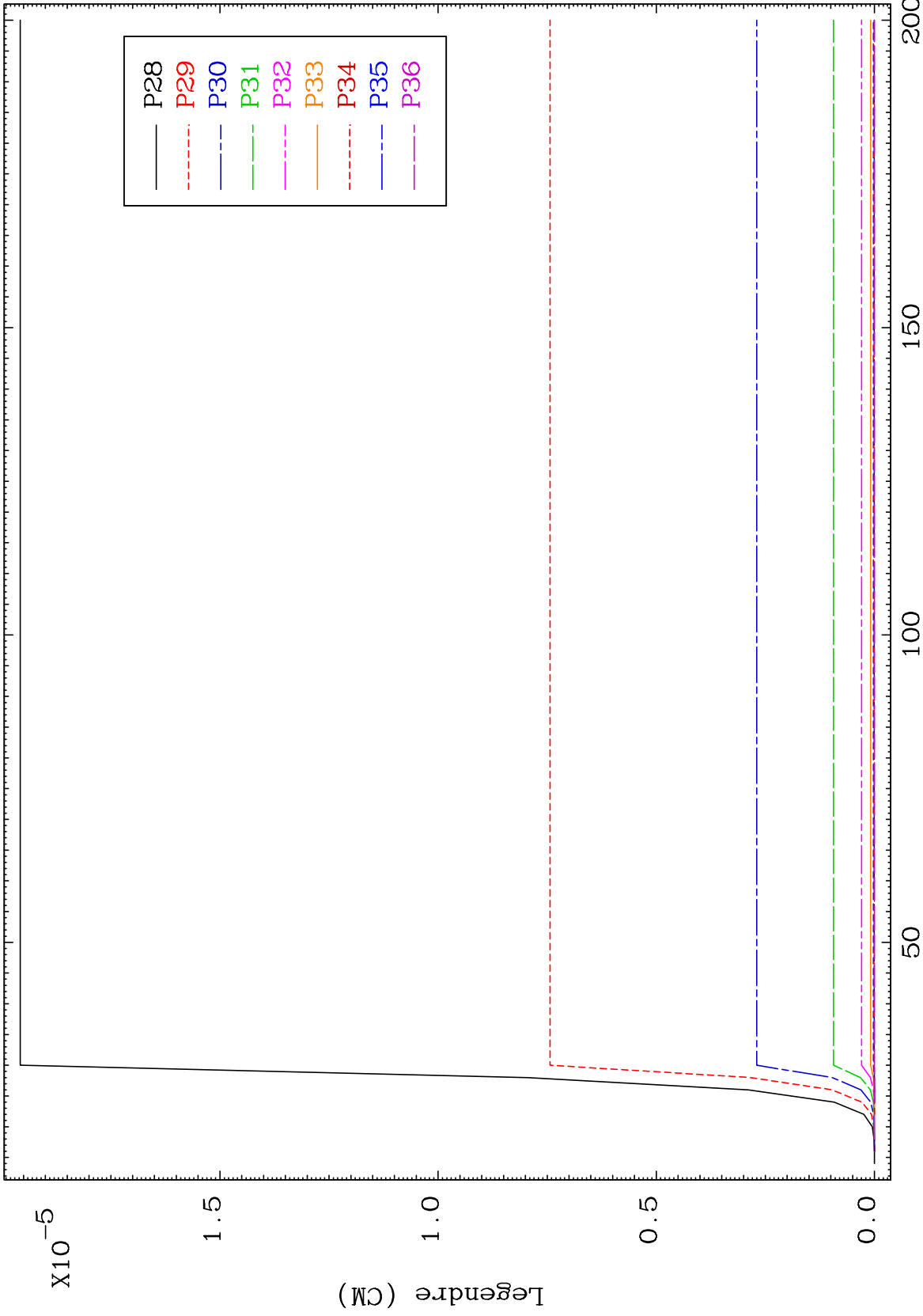
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



91

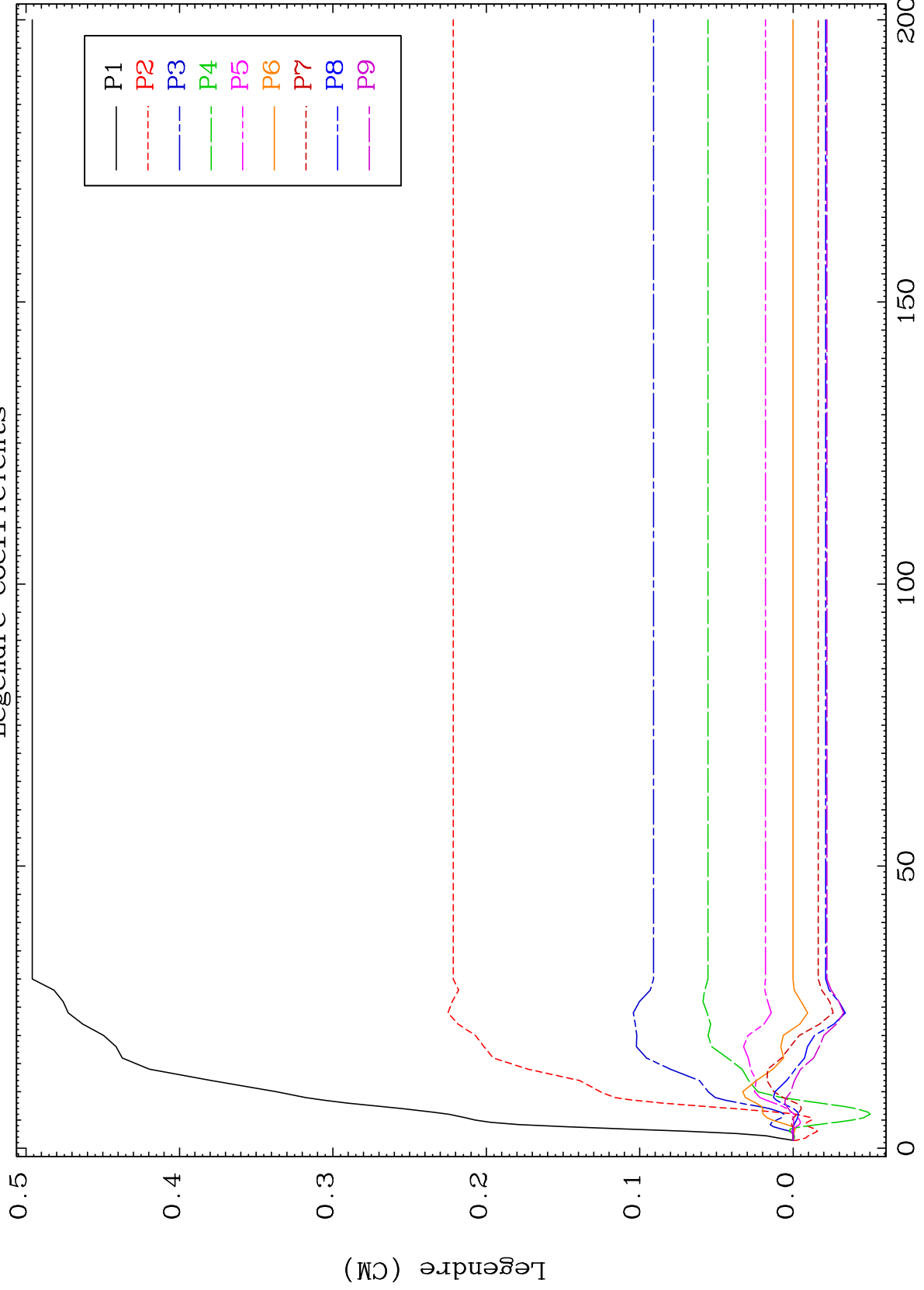
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



92

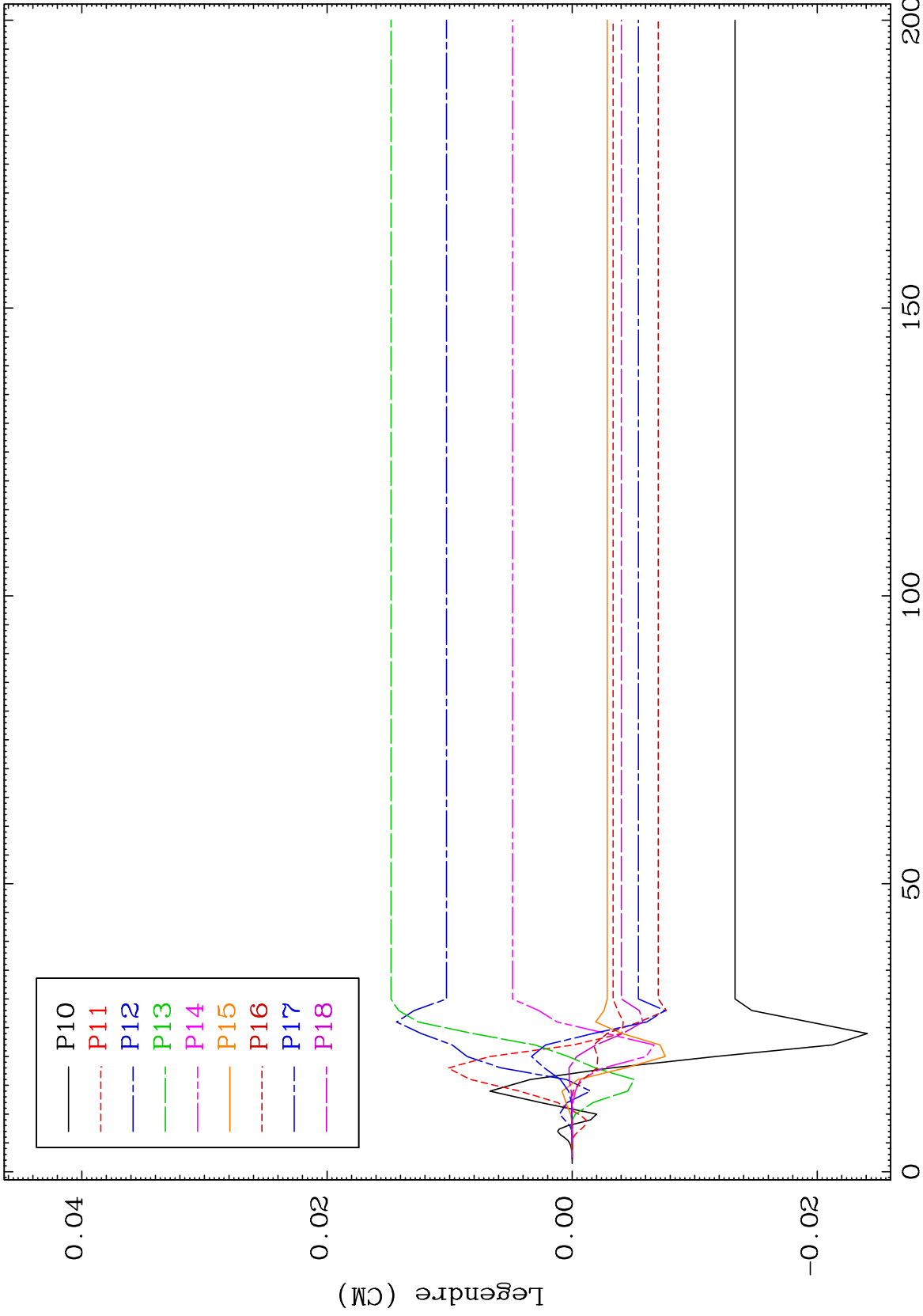
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



93

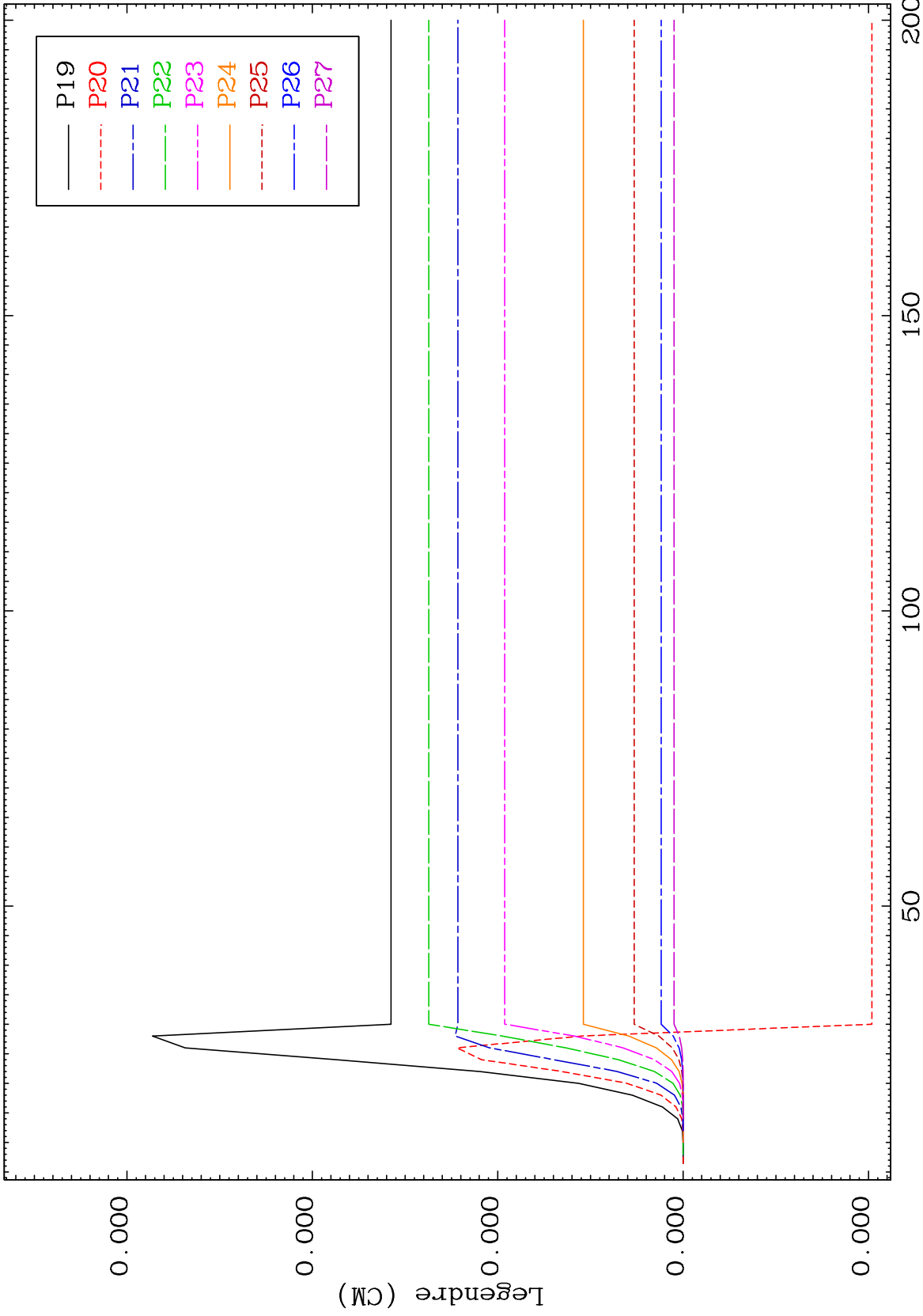
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



94

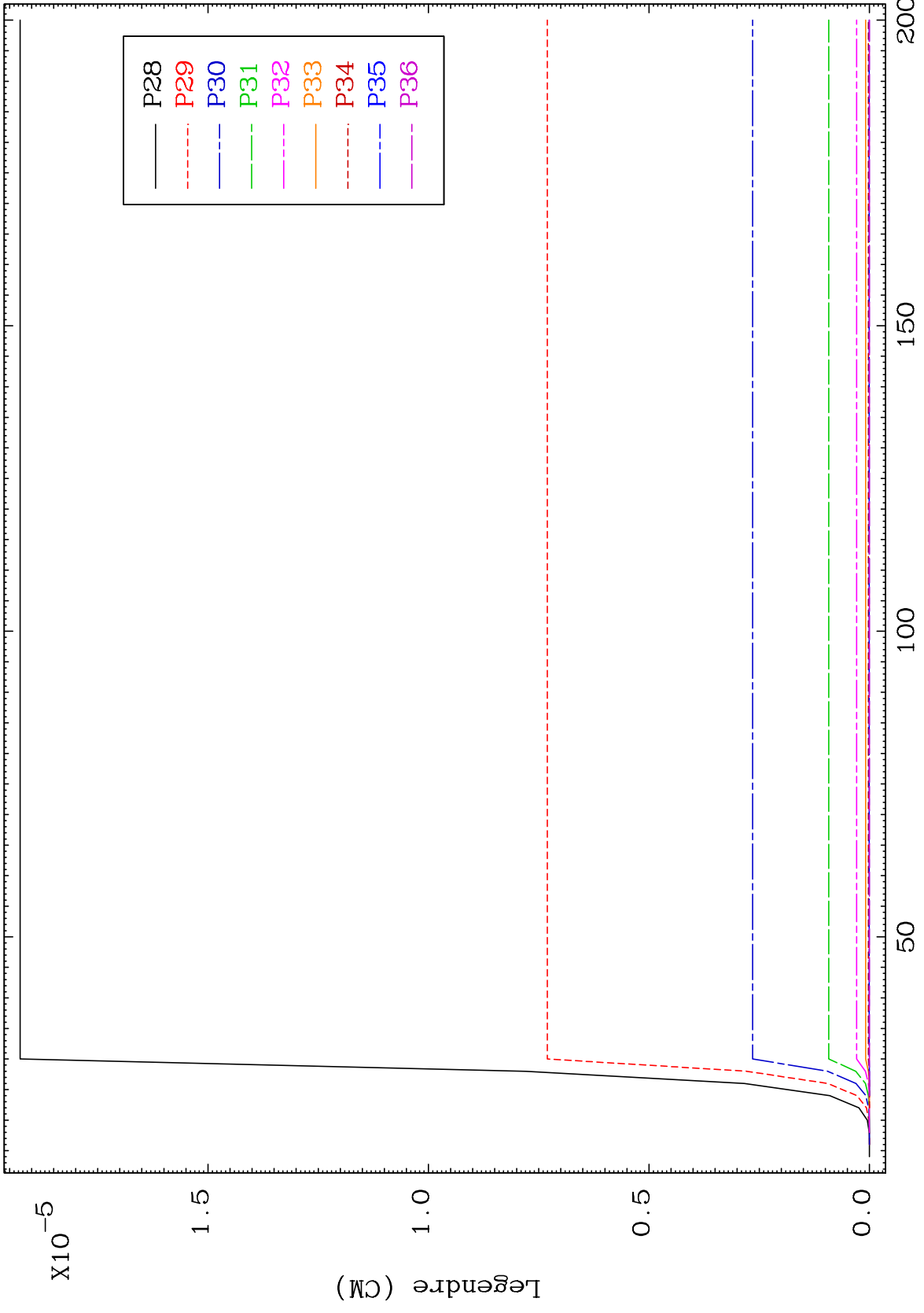
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



95

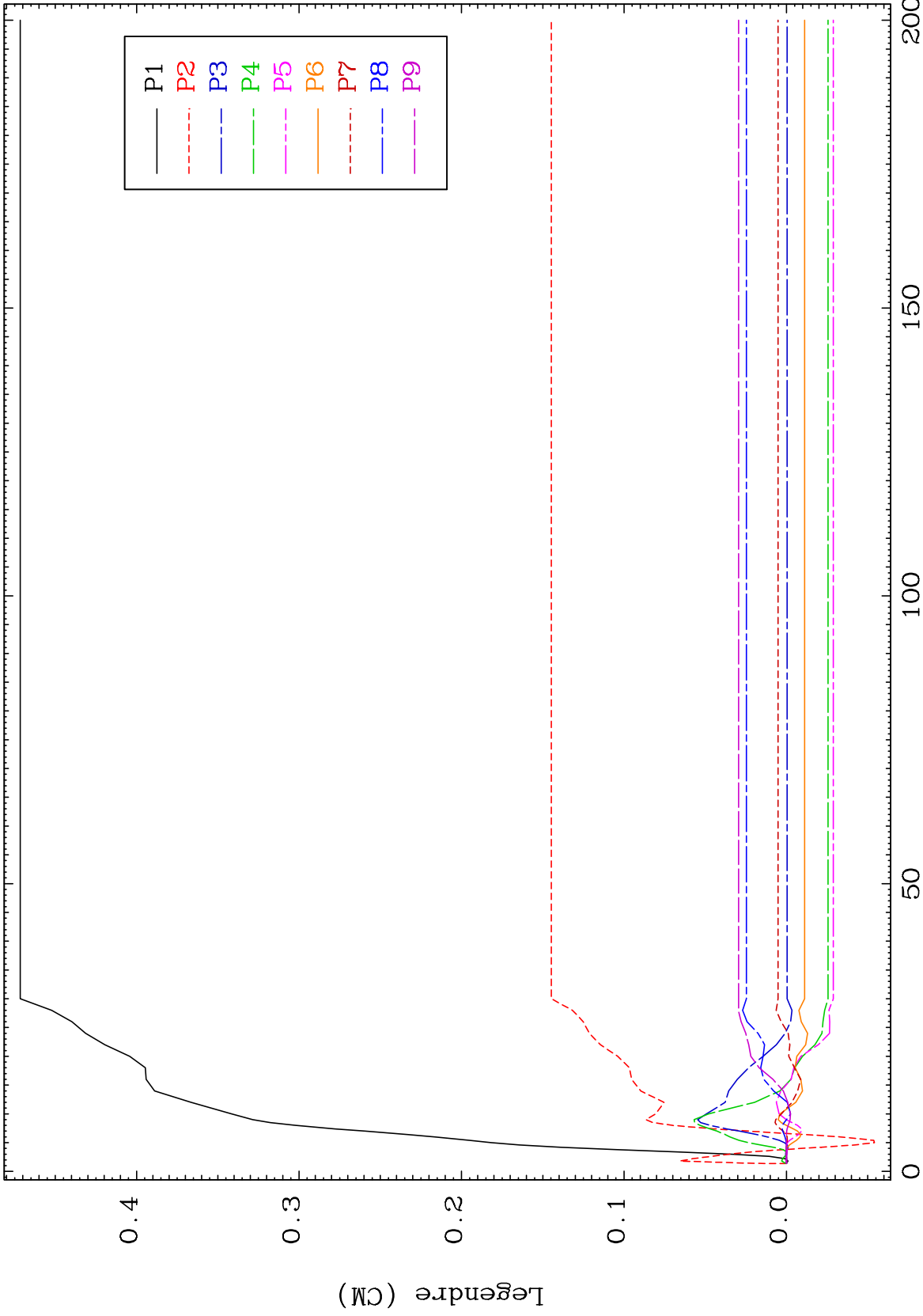
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



96

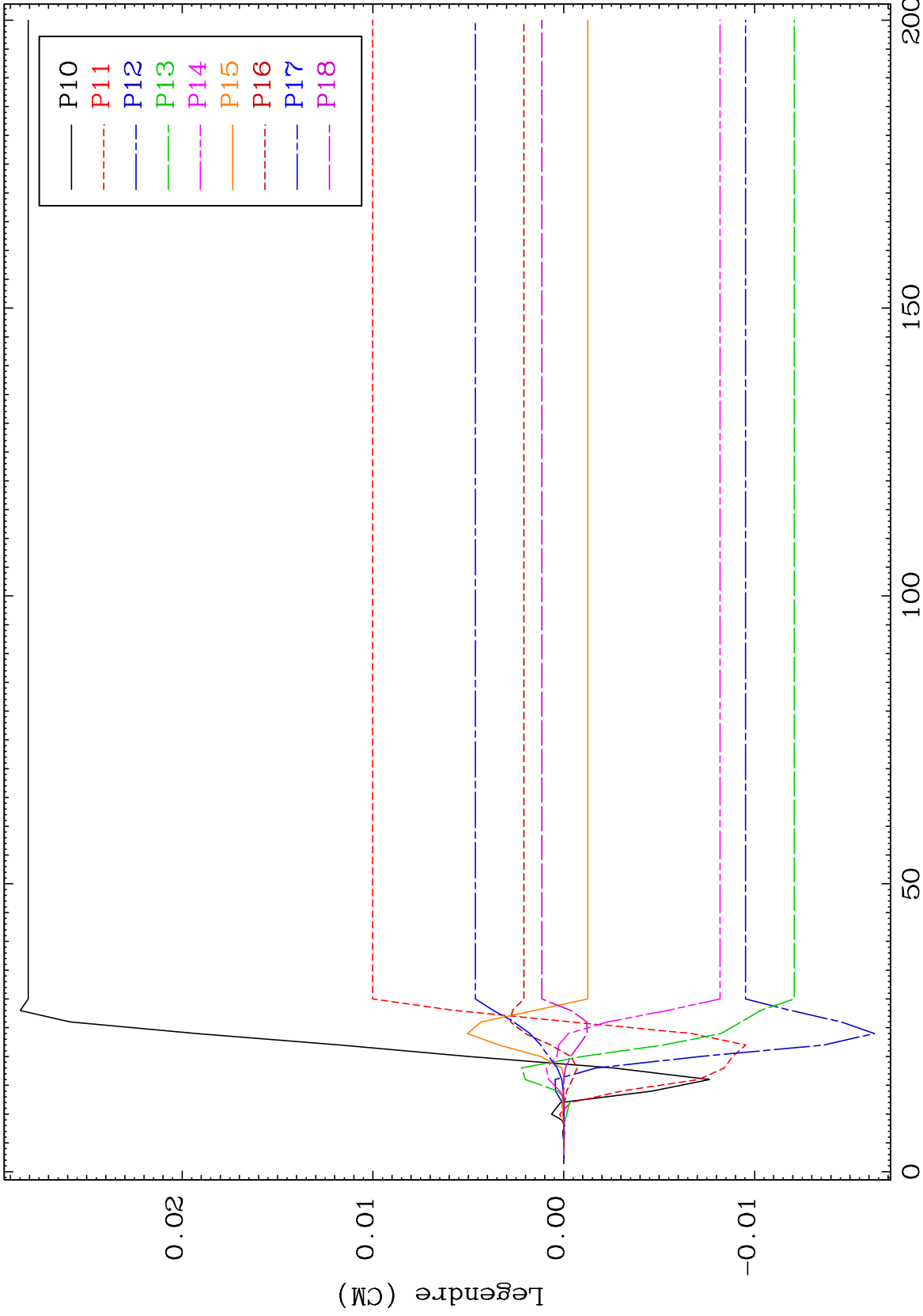
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



97

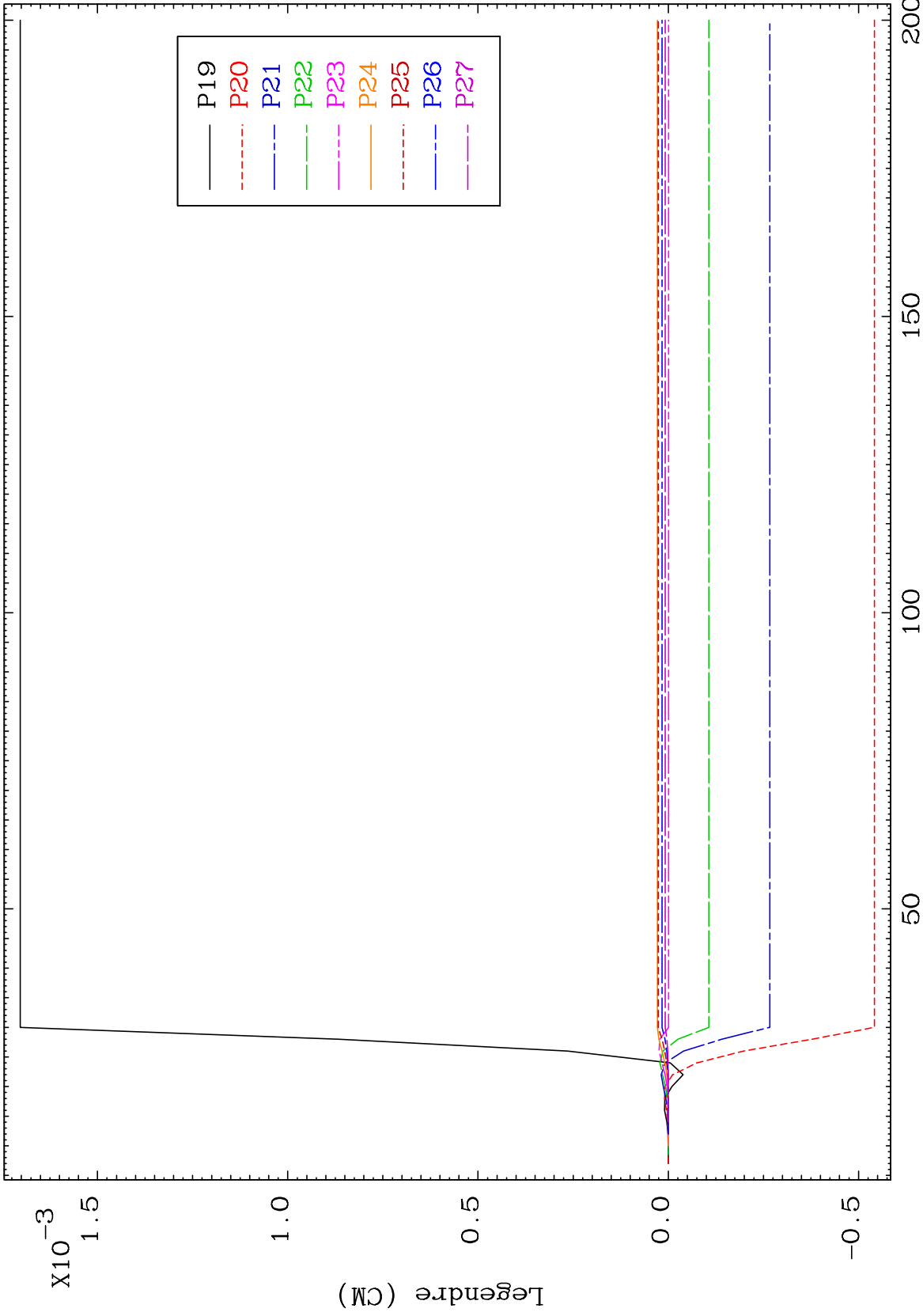
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



98

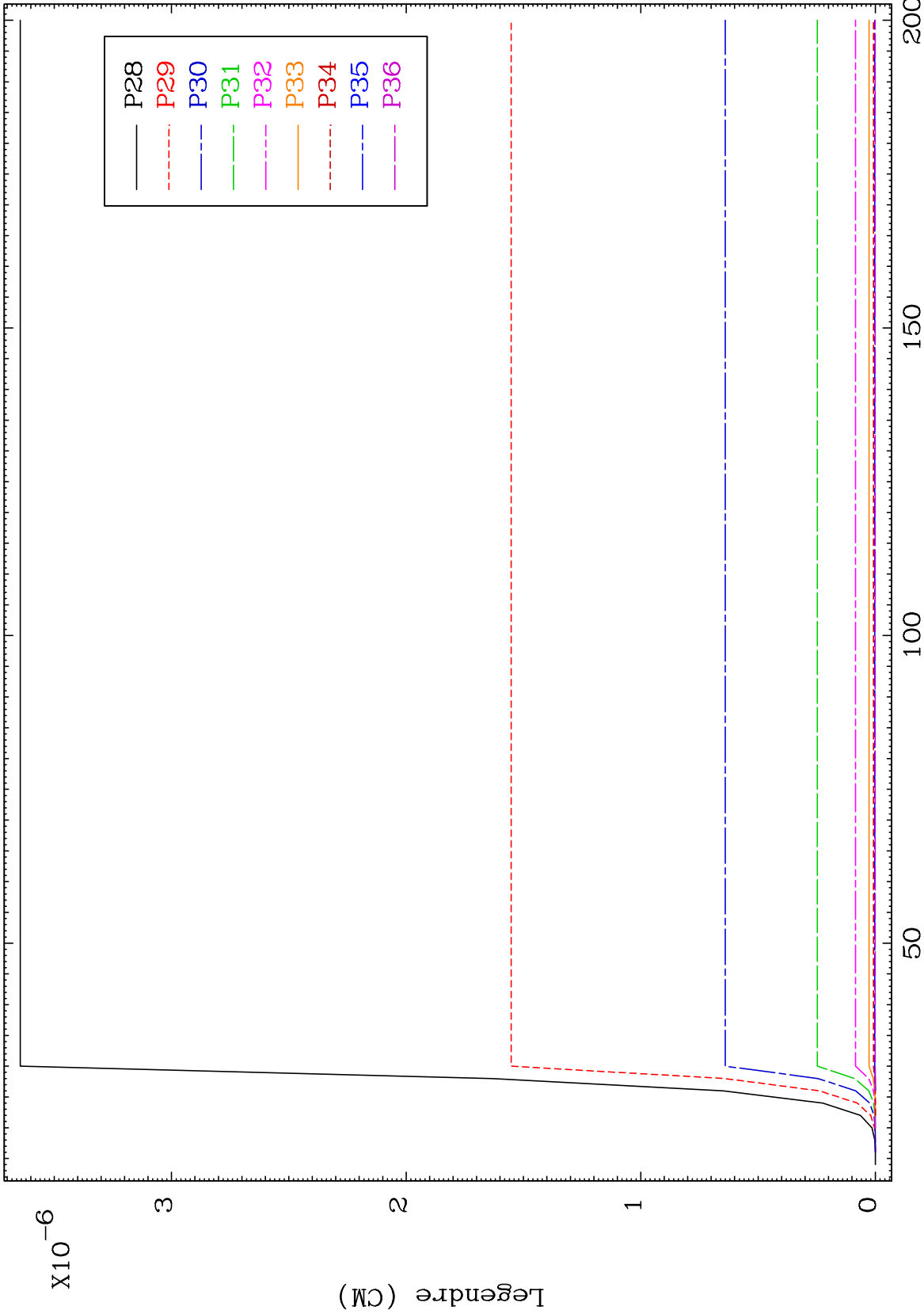
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



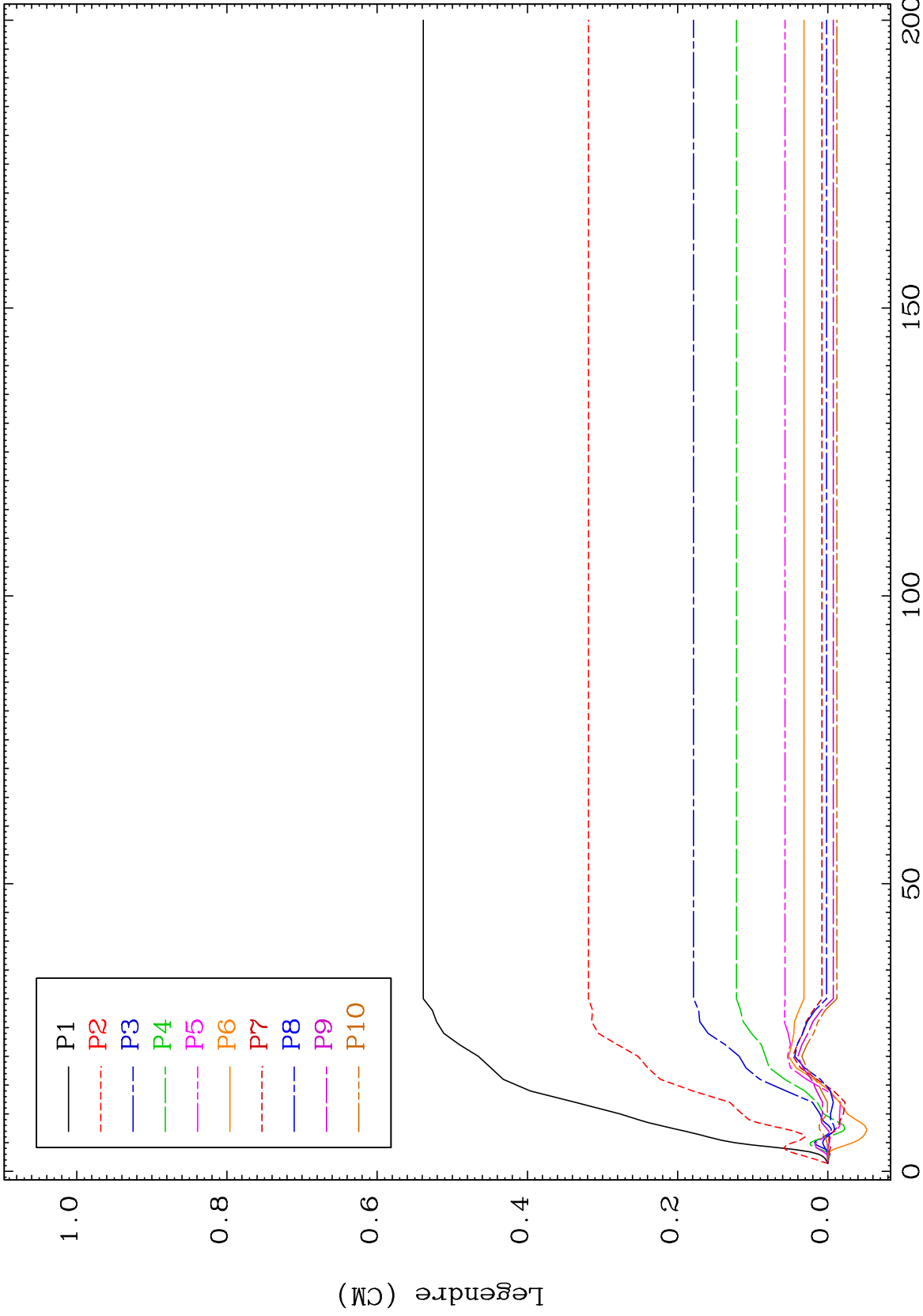
99

79-Au-191

MAT 7907

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

79-Au-191



79-Au-191

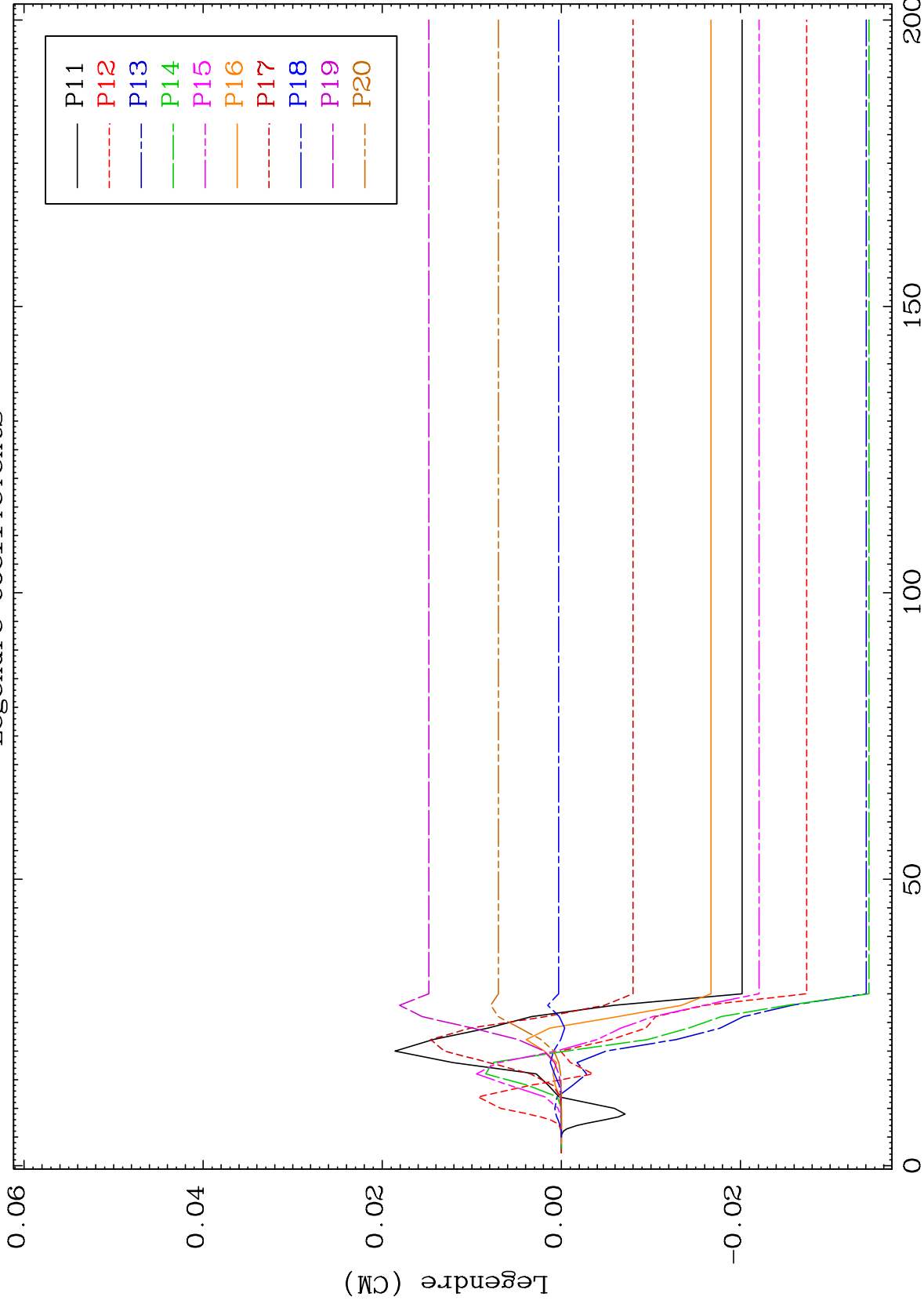
Incident Energy (MeV)

100

MAT 7907

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

79-Au-191



101

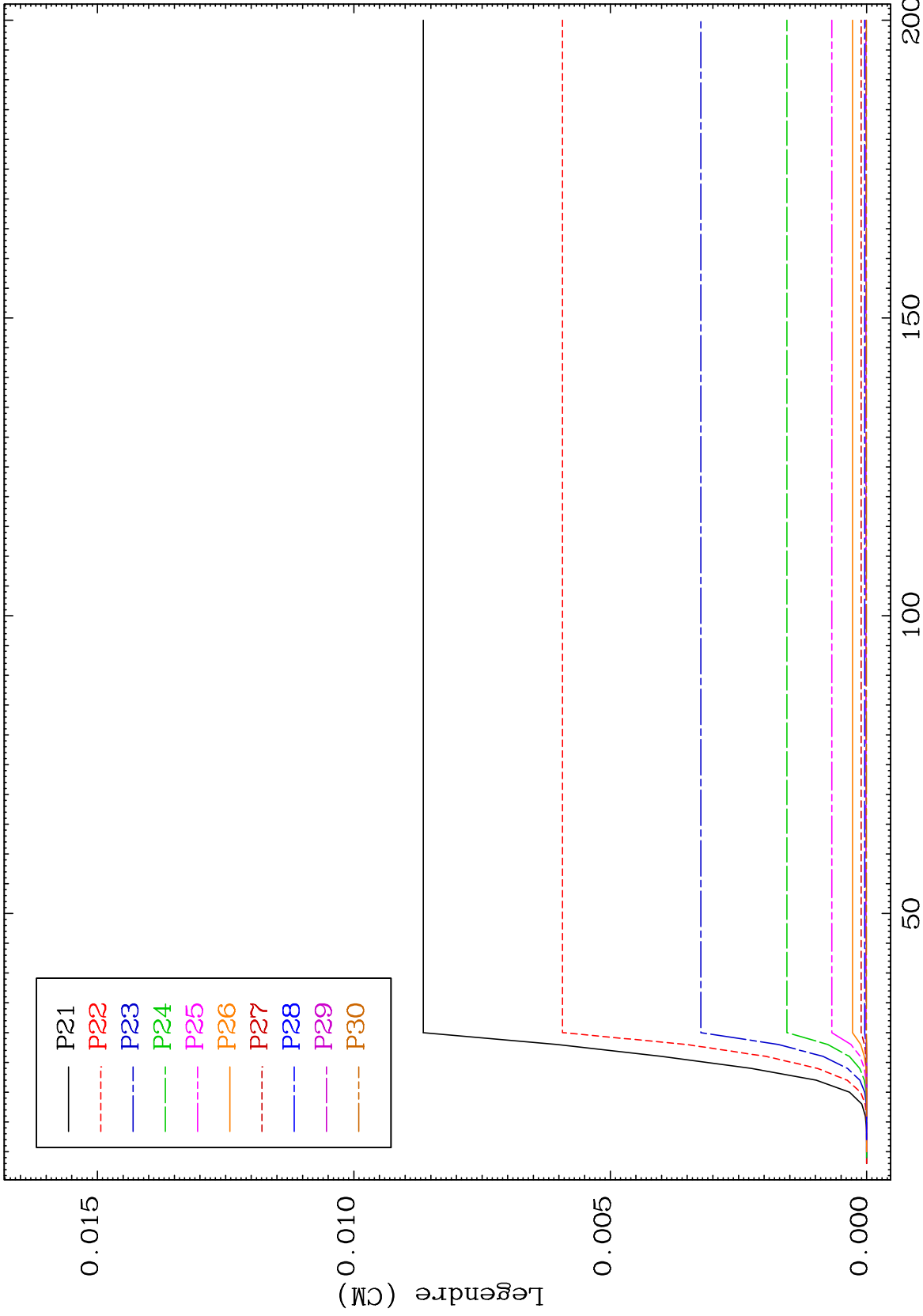
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



79-Au-191

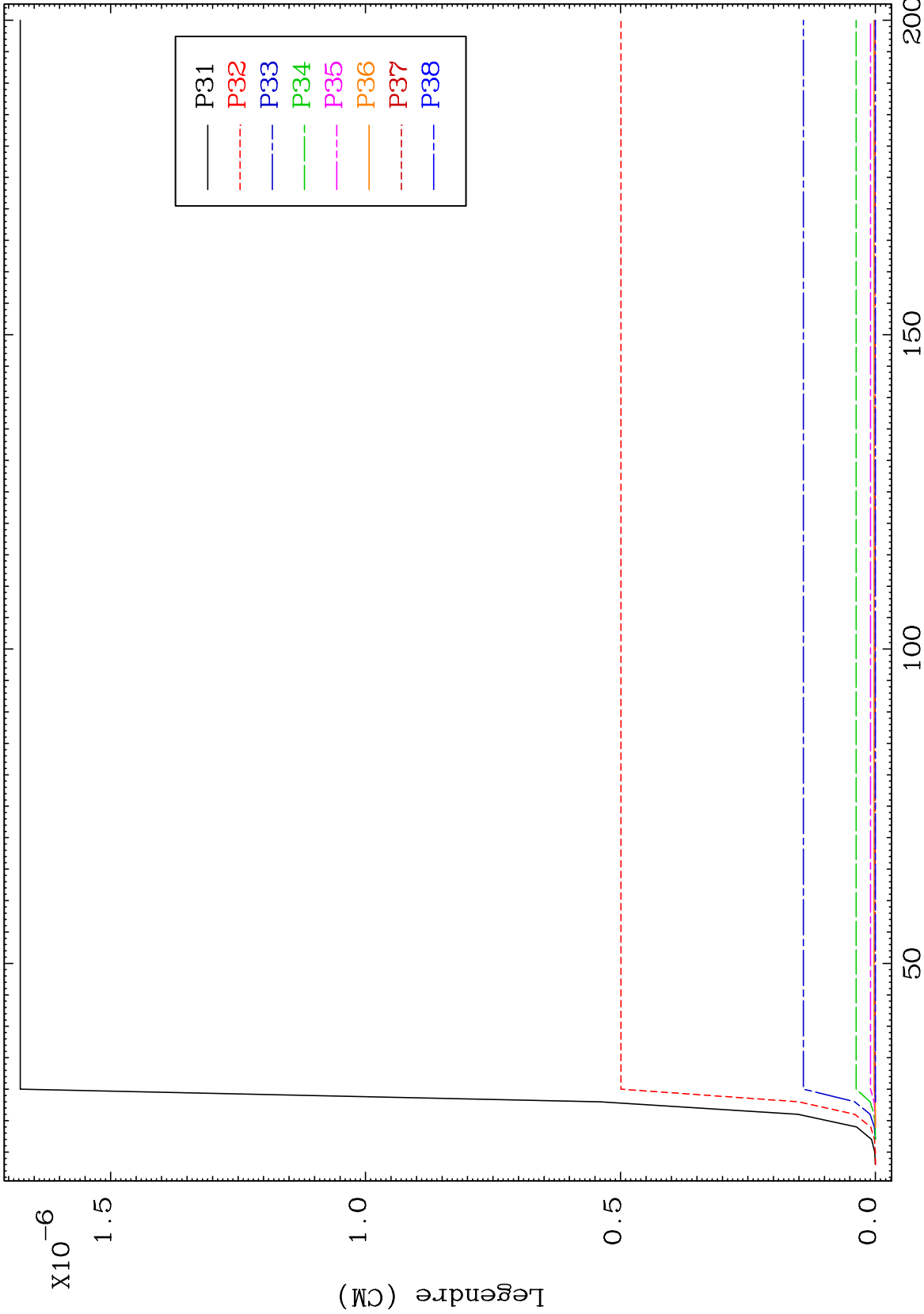
Incident Energy (MeV)

102

MAT 7907

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

79-Au-191



103

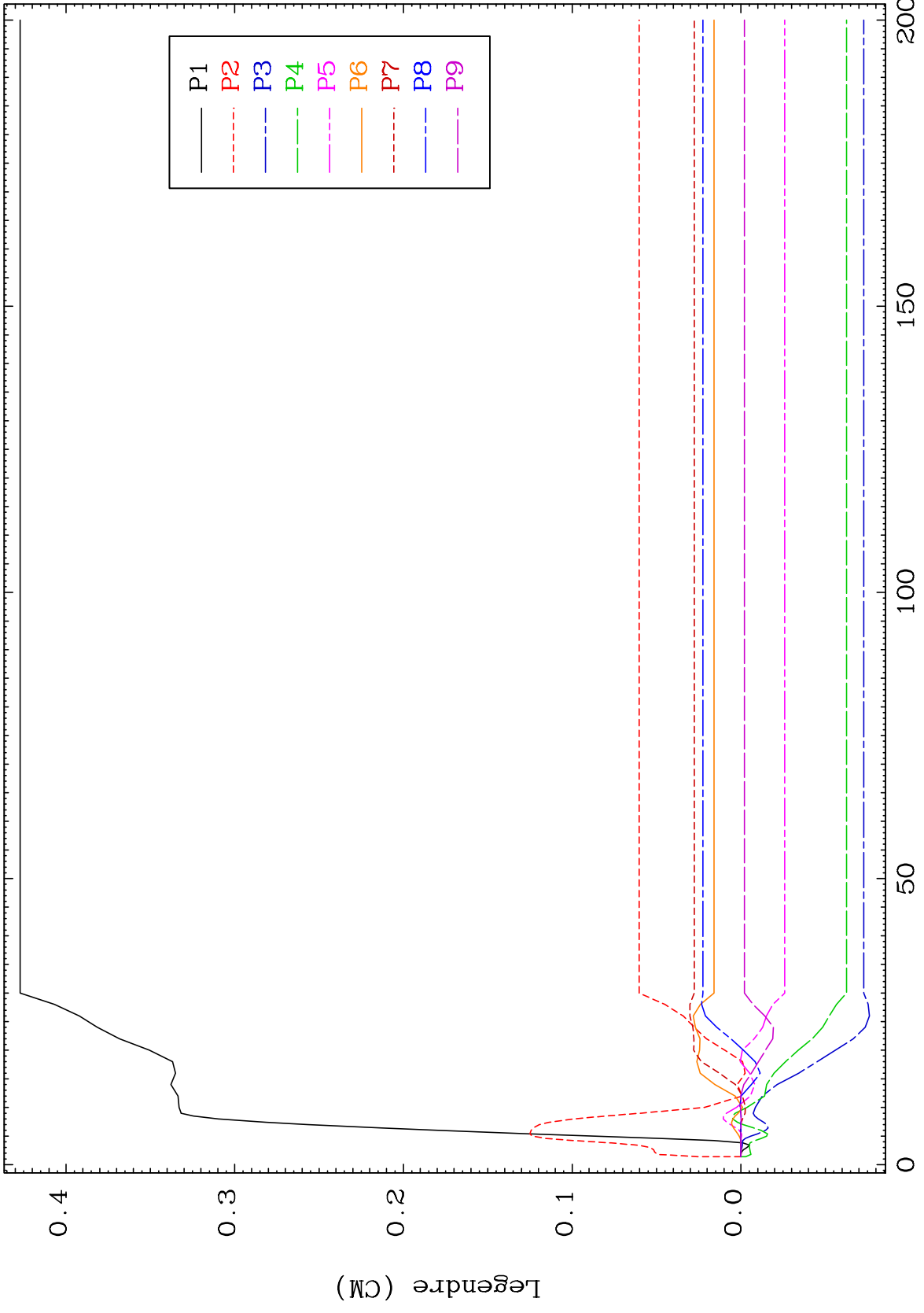
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



79-Au-191

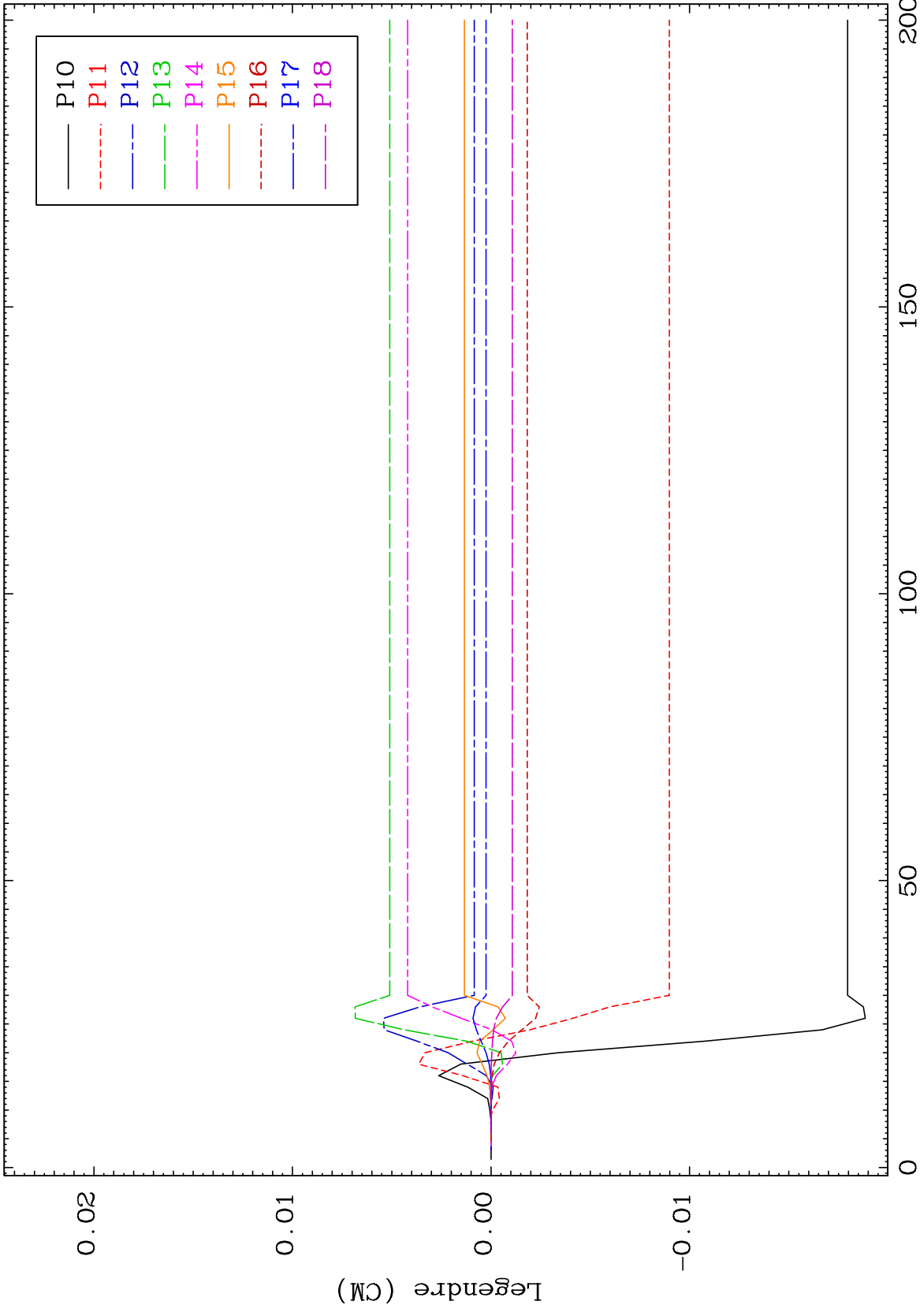
Incident Energy (MeV)

104

MAT 7907

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

79-Au-191



105

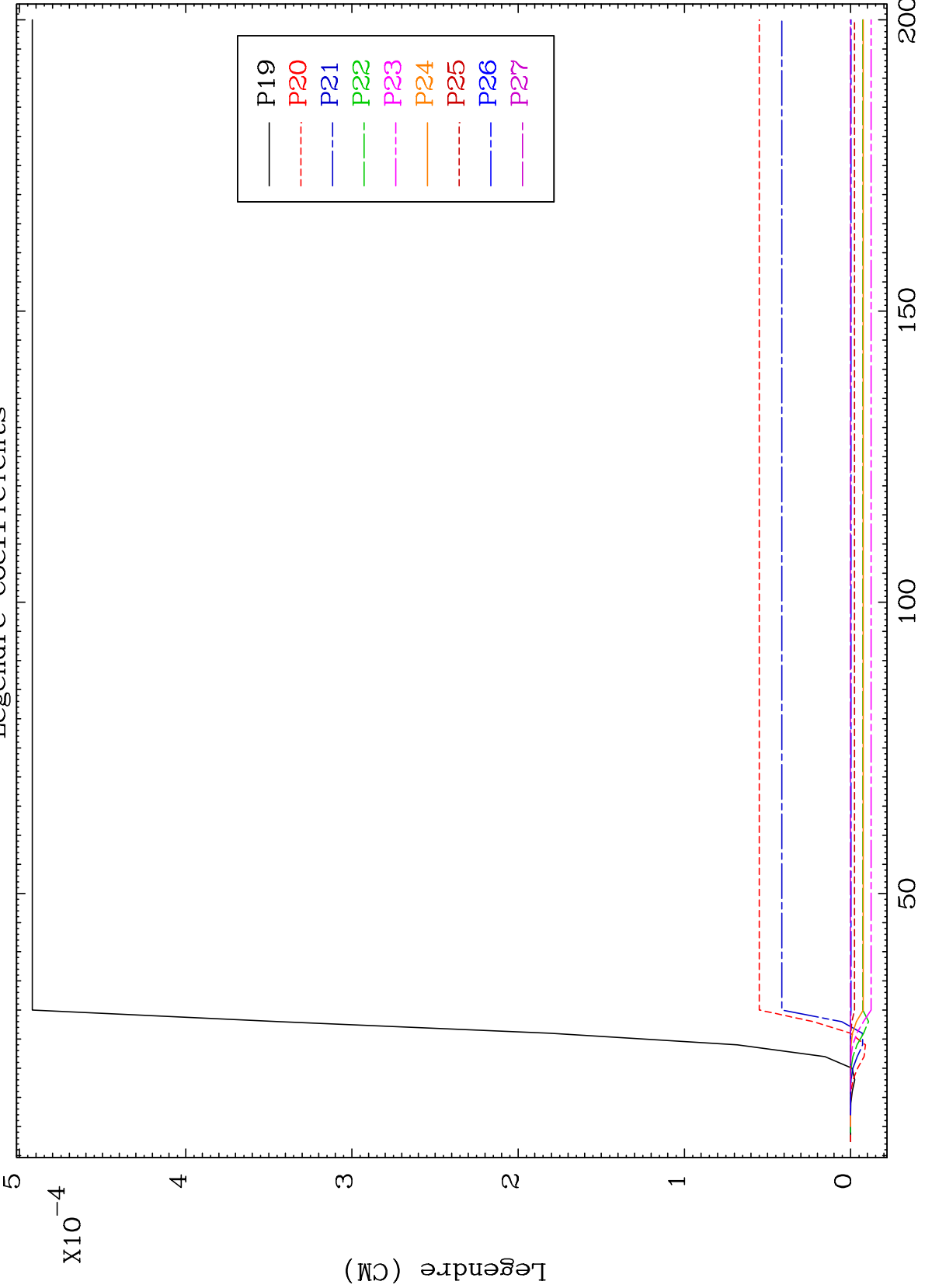
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



106

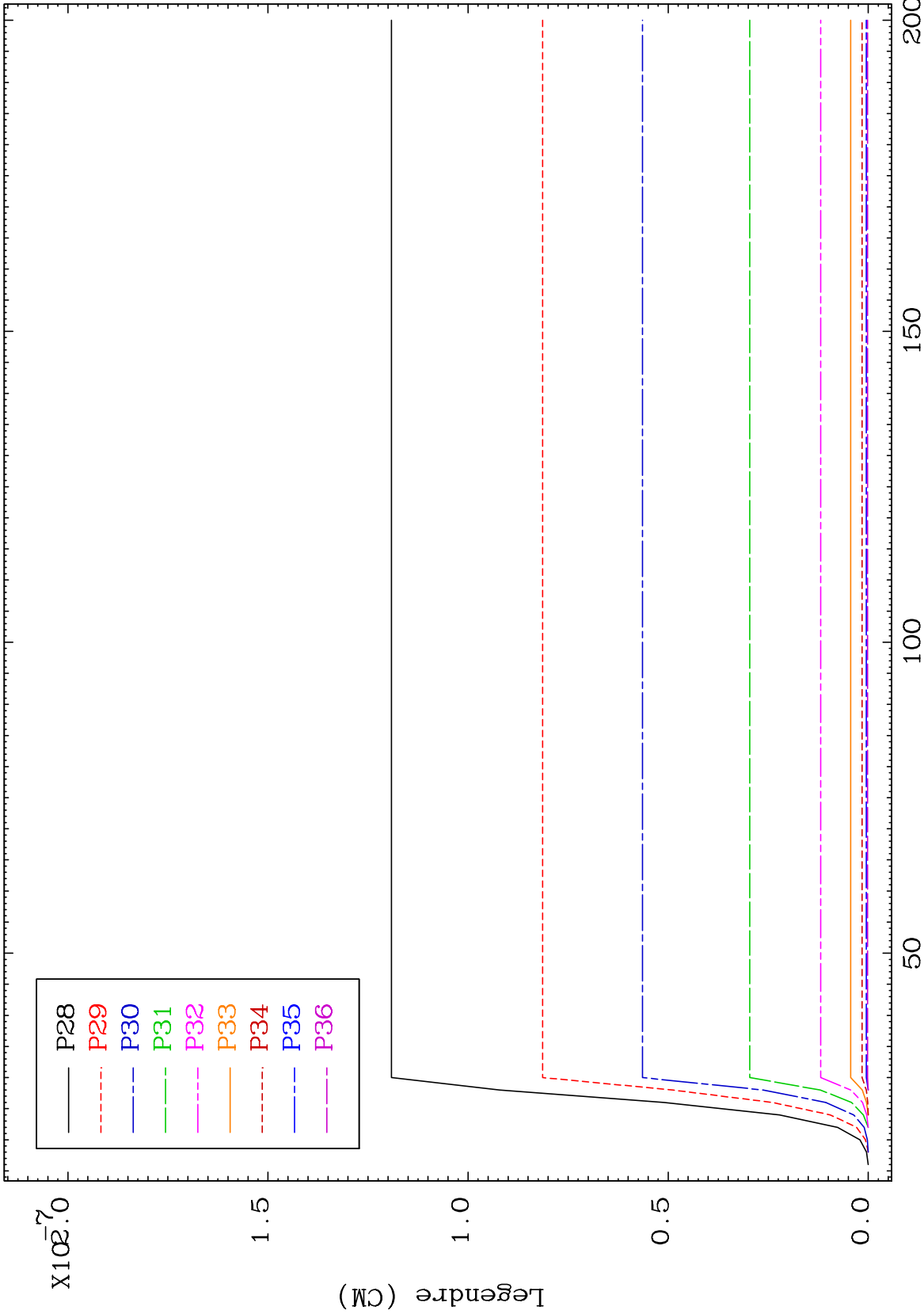
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



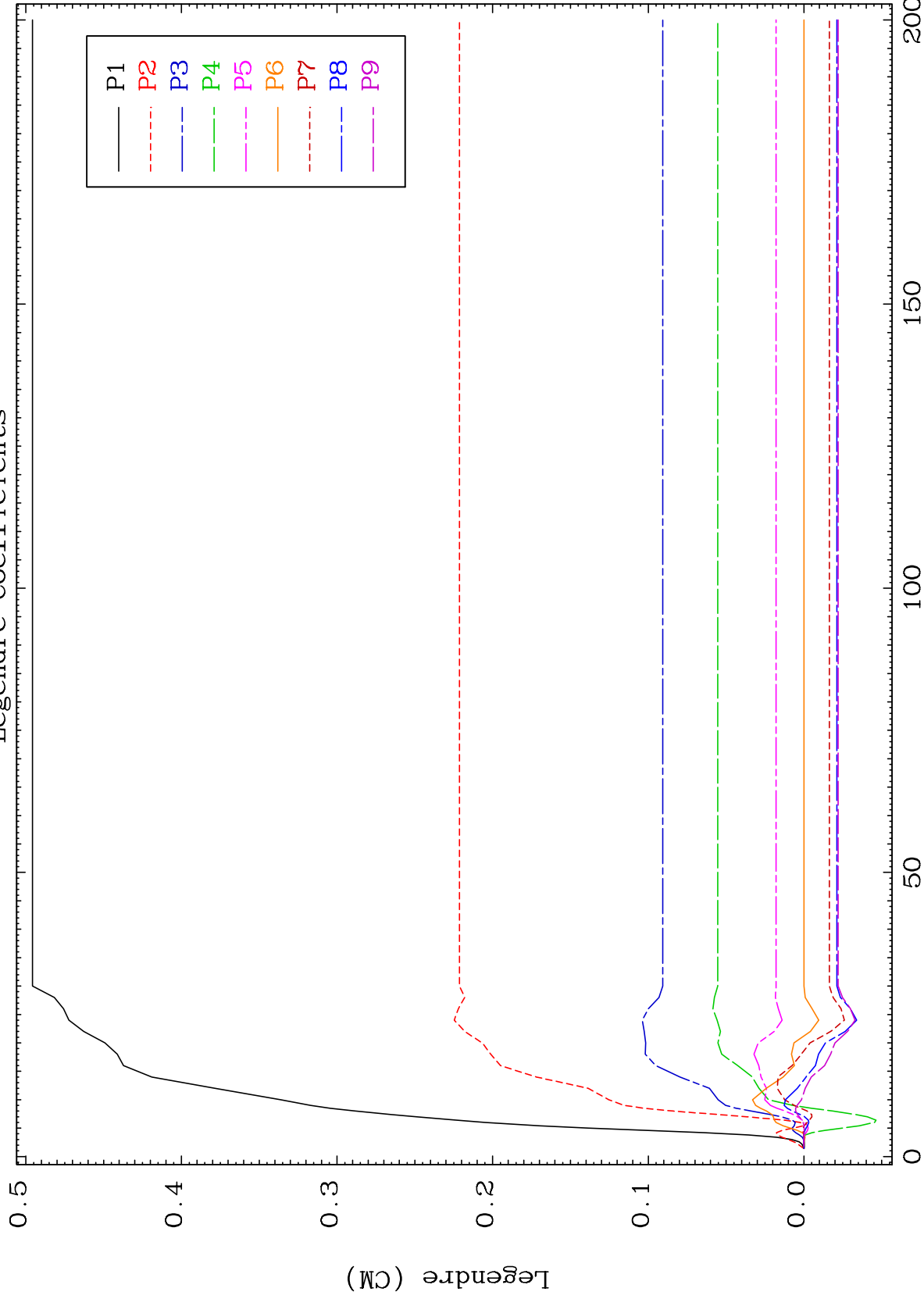
107

79-Au-191

MAT 7907

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

79-Au-191



108

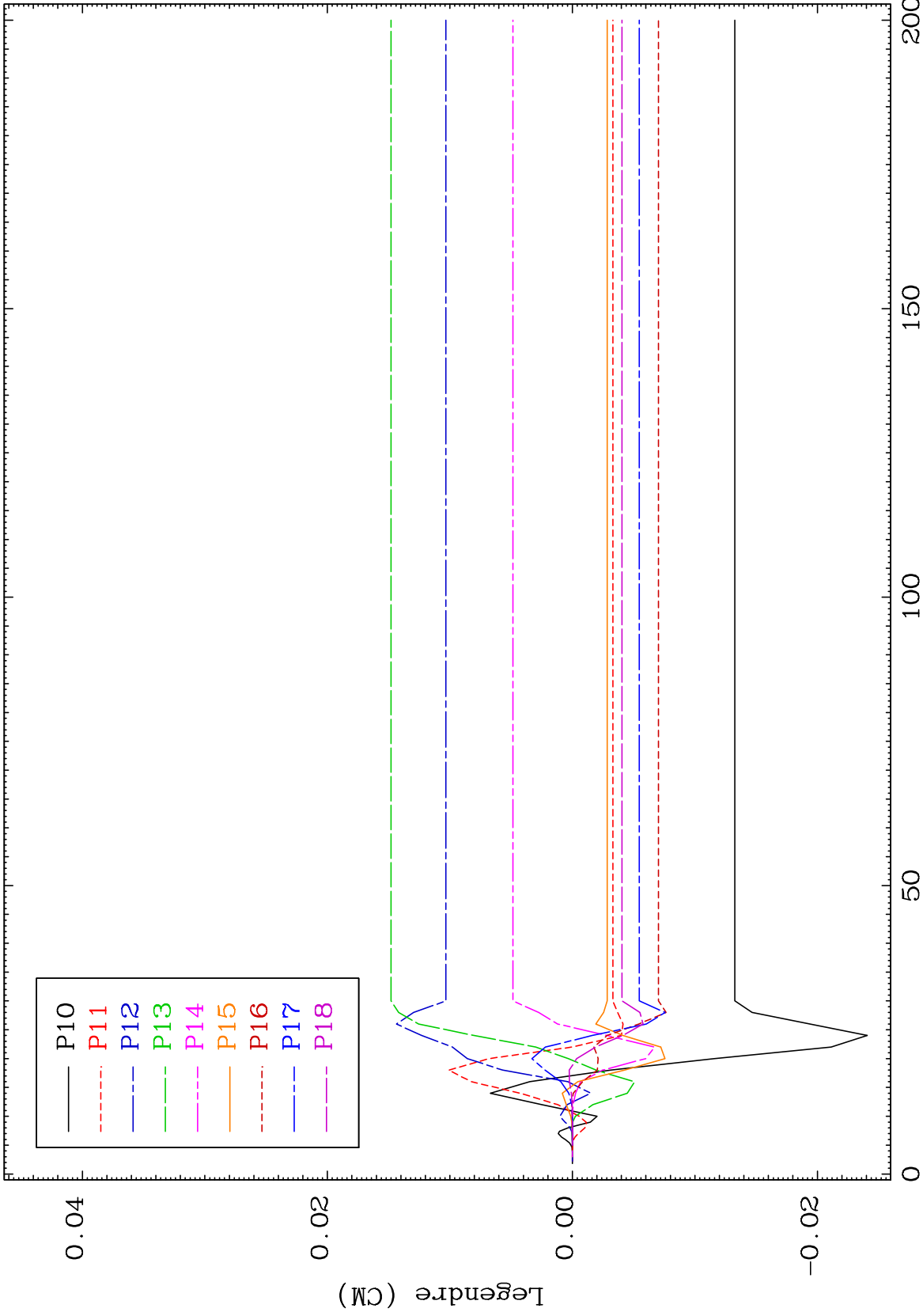
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



109

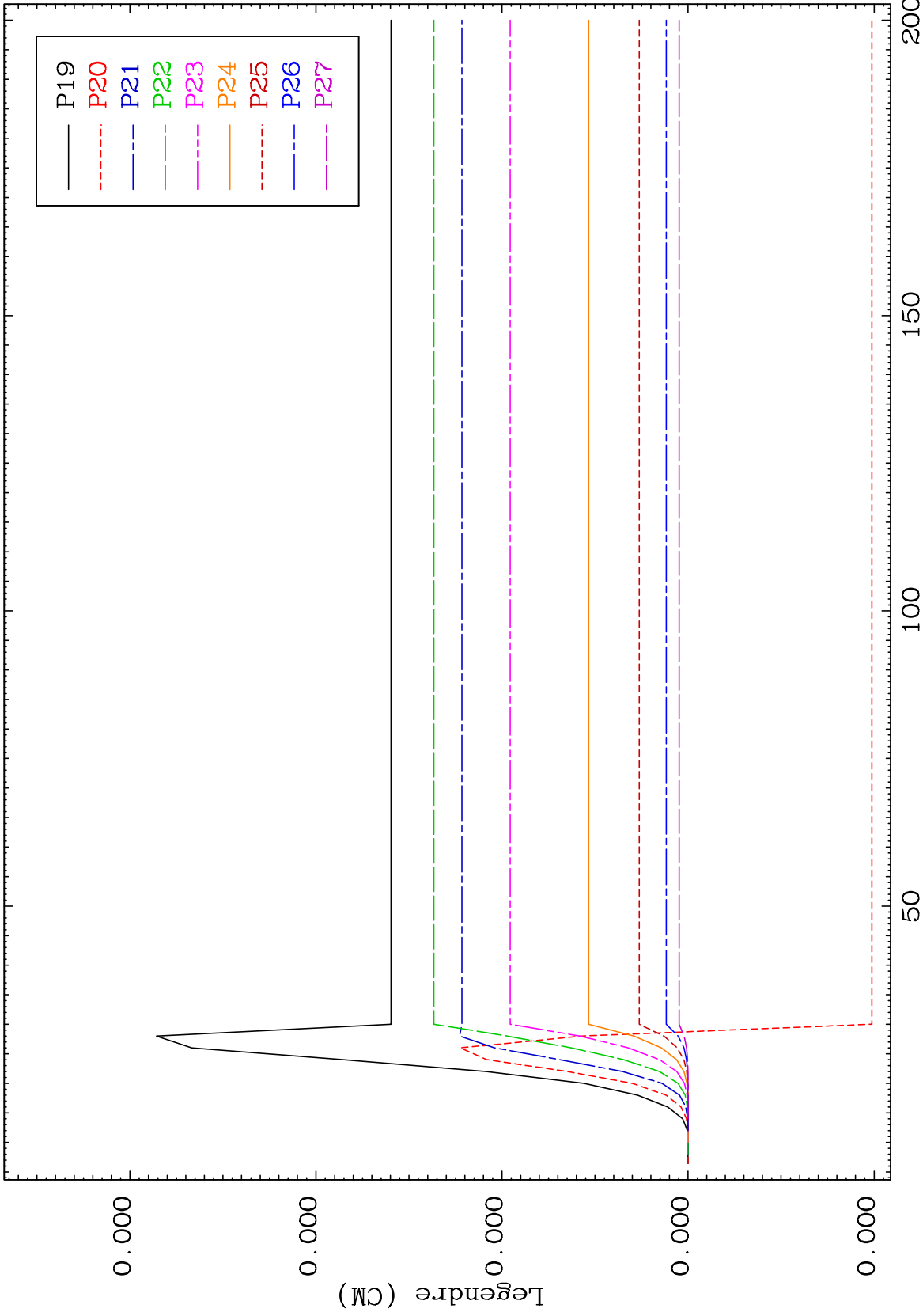
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



110

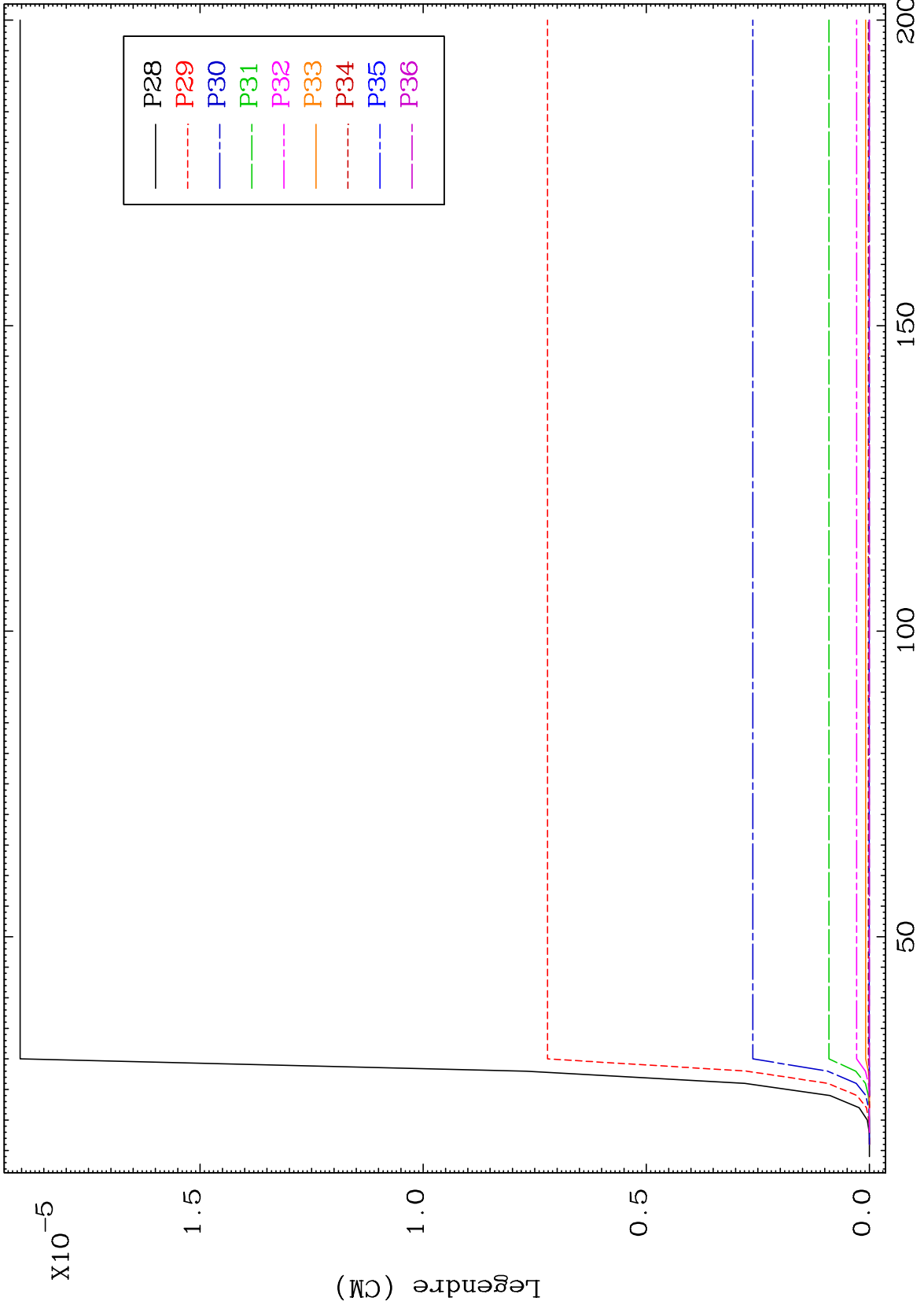
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



111

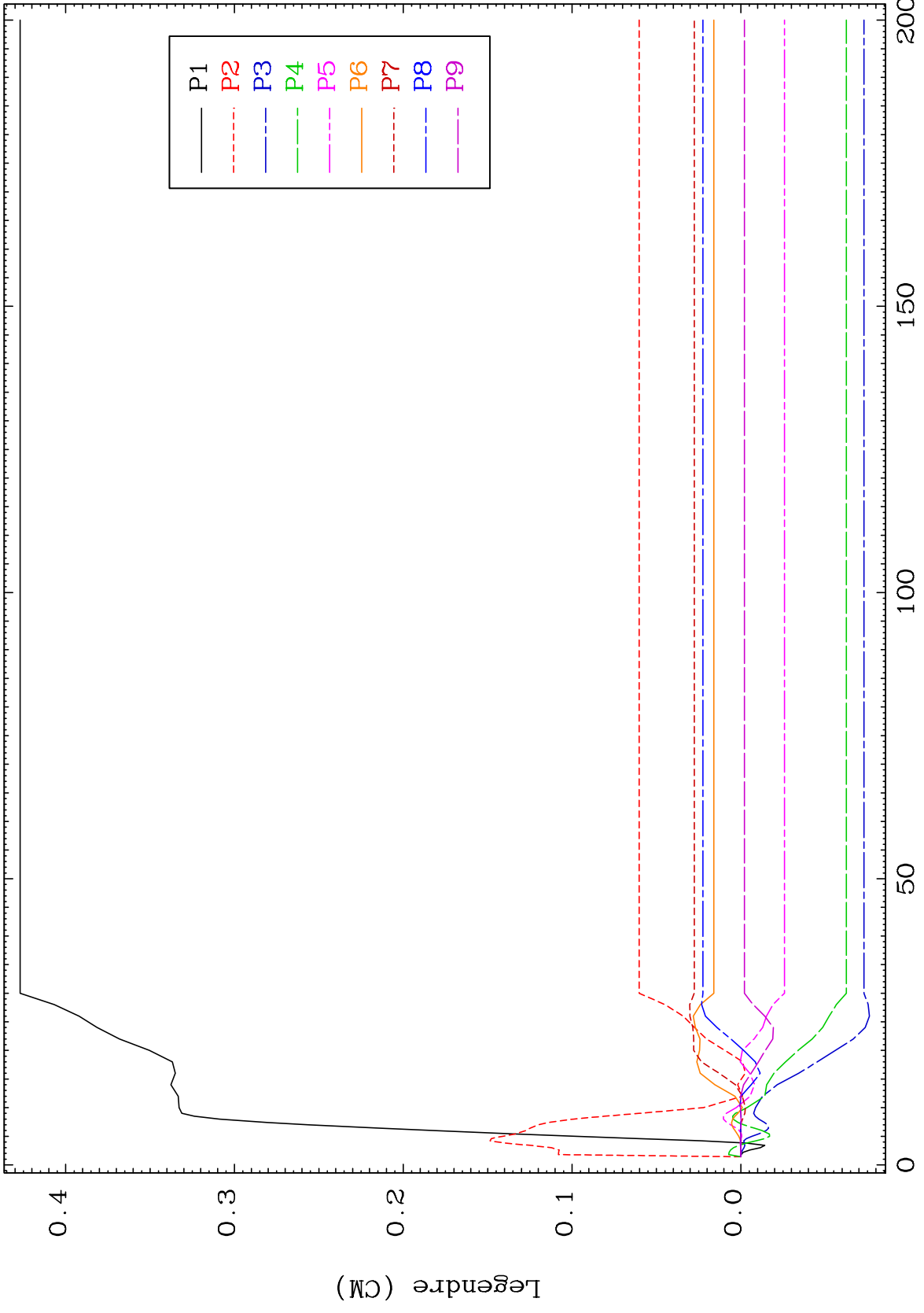
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



79-Au-191

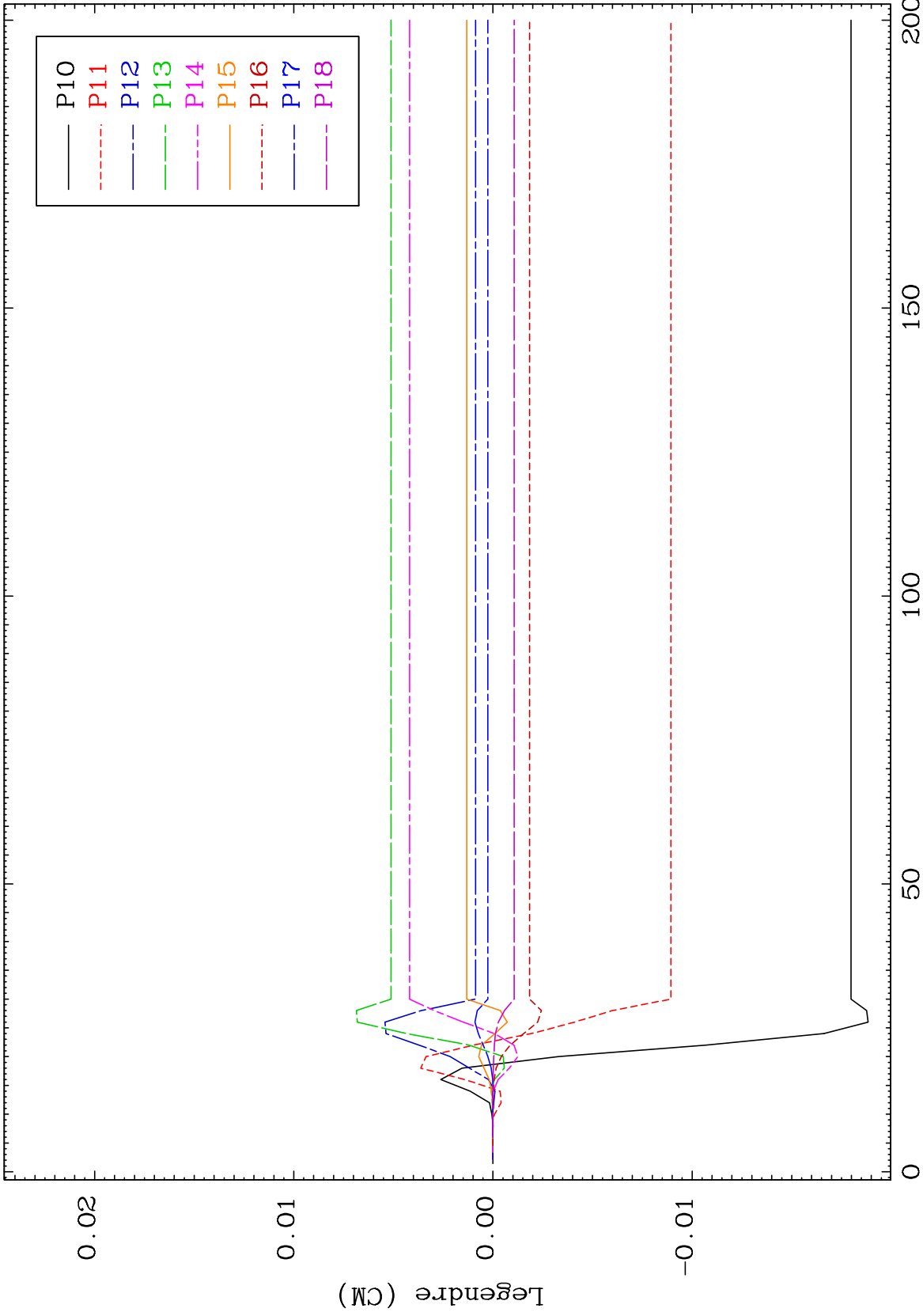
Incident Energy (MeV)

112

MAT 7907

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

79-Au-191



113

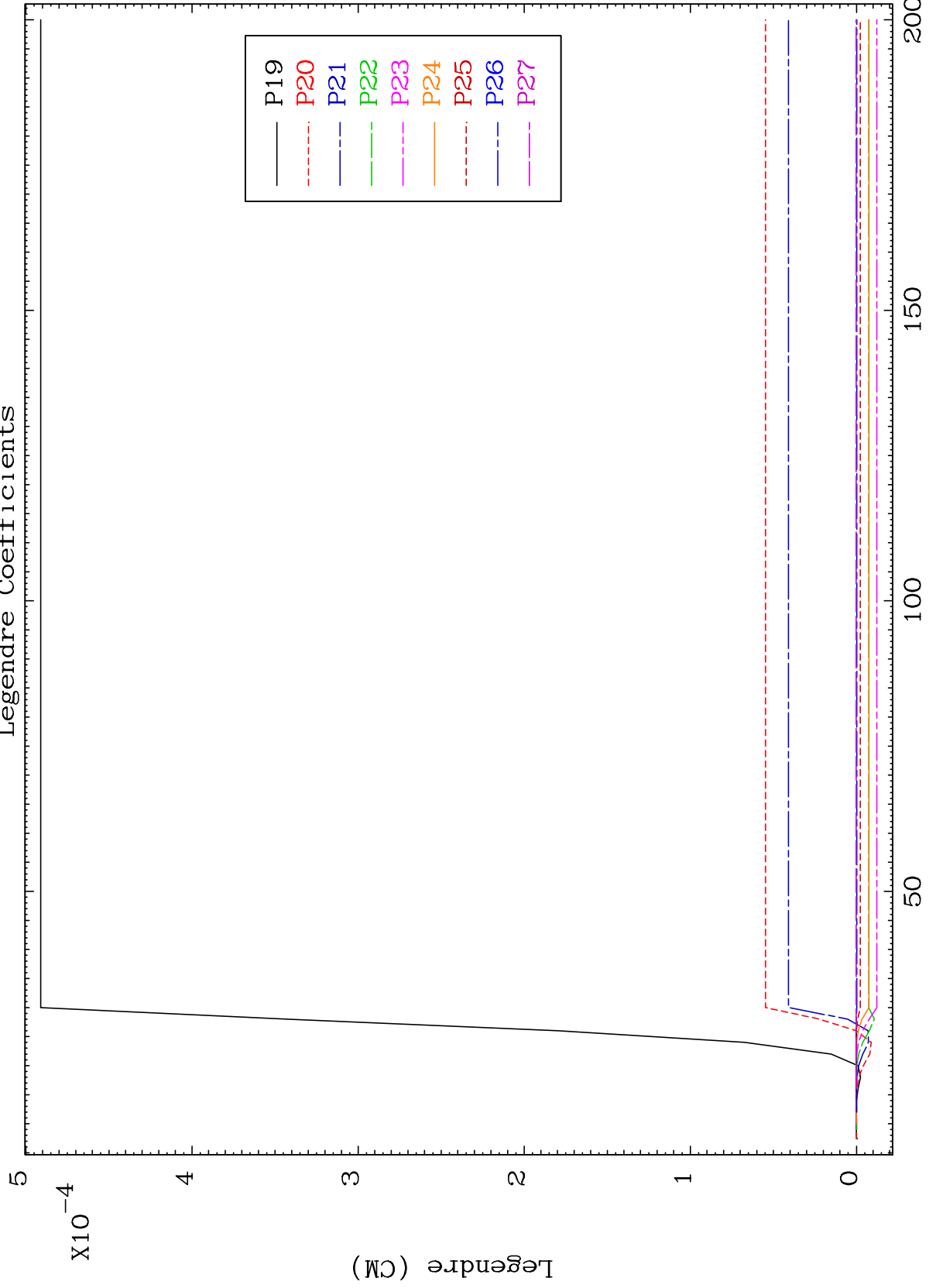
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



114

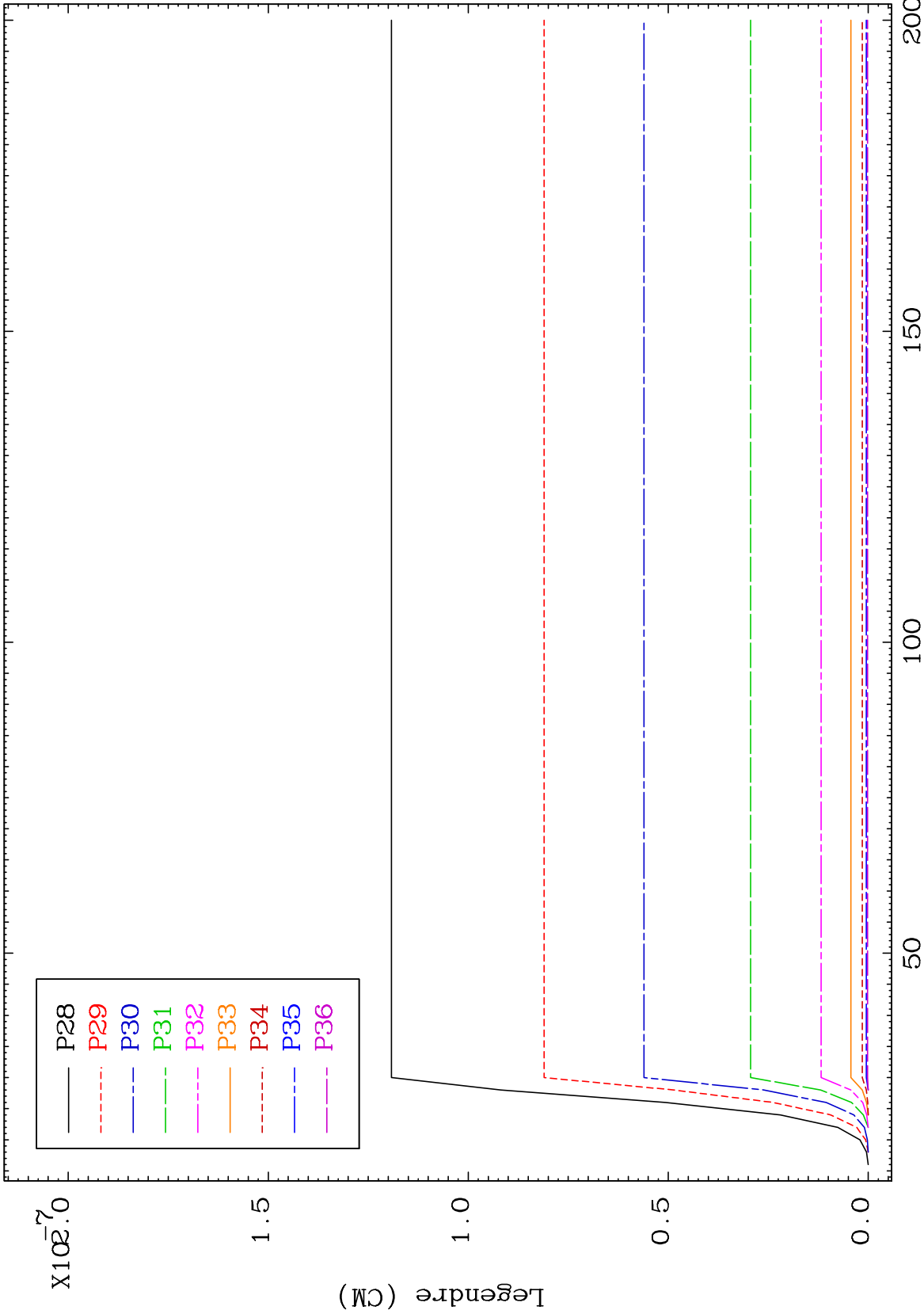
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



115

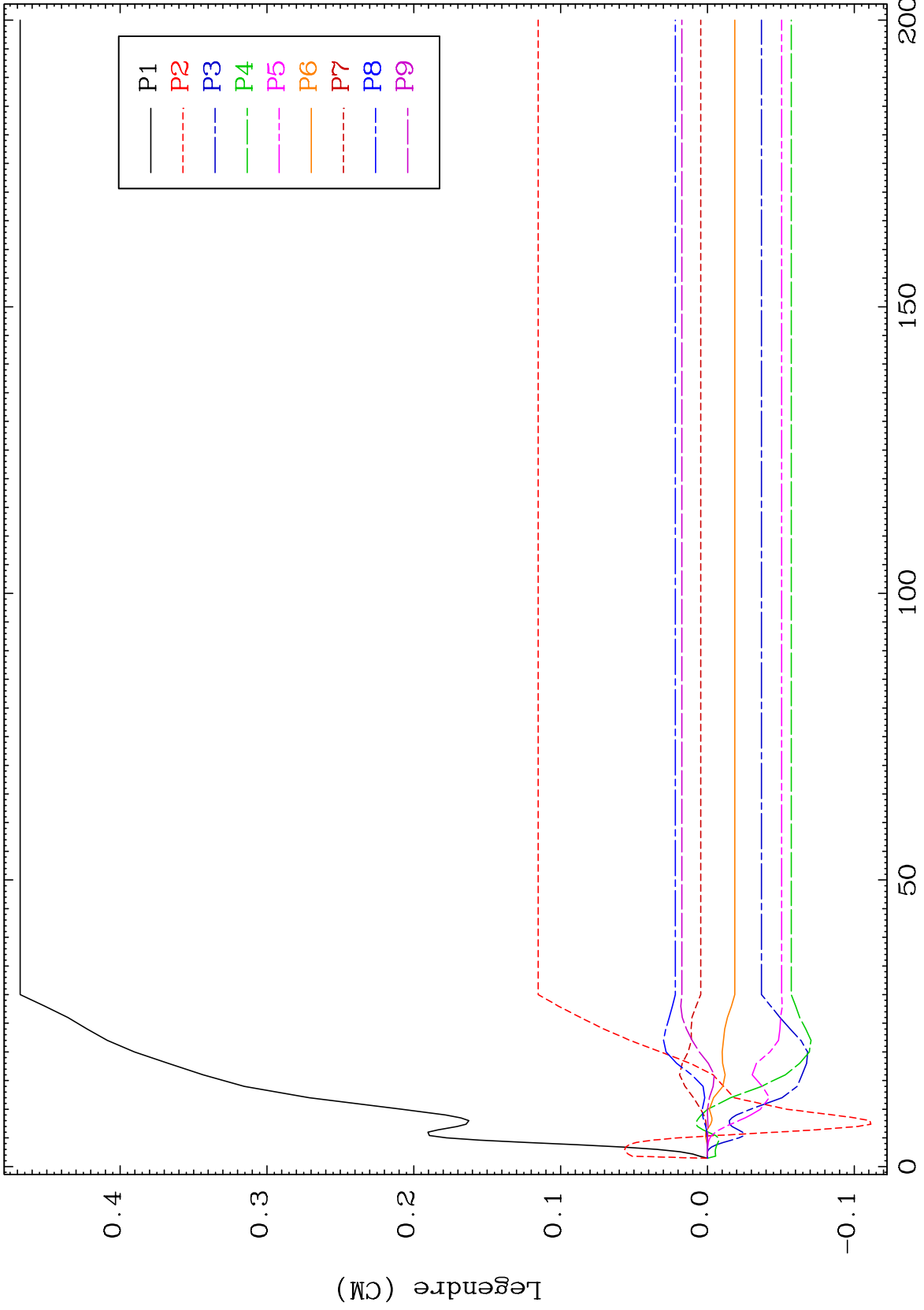
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



116

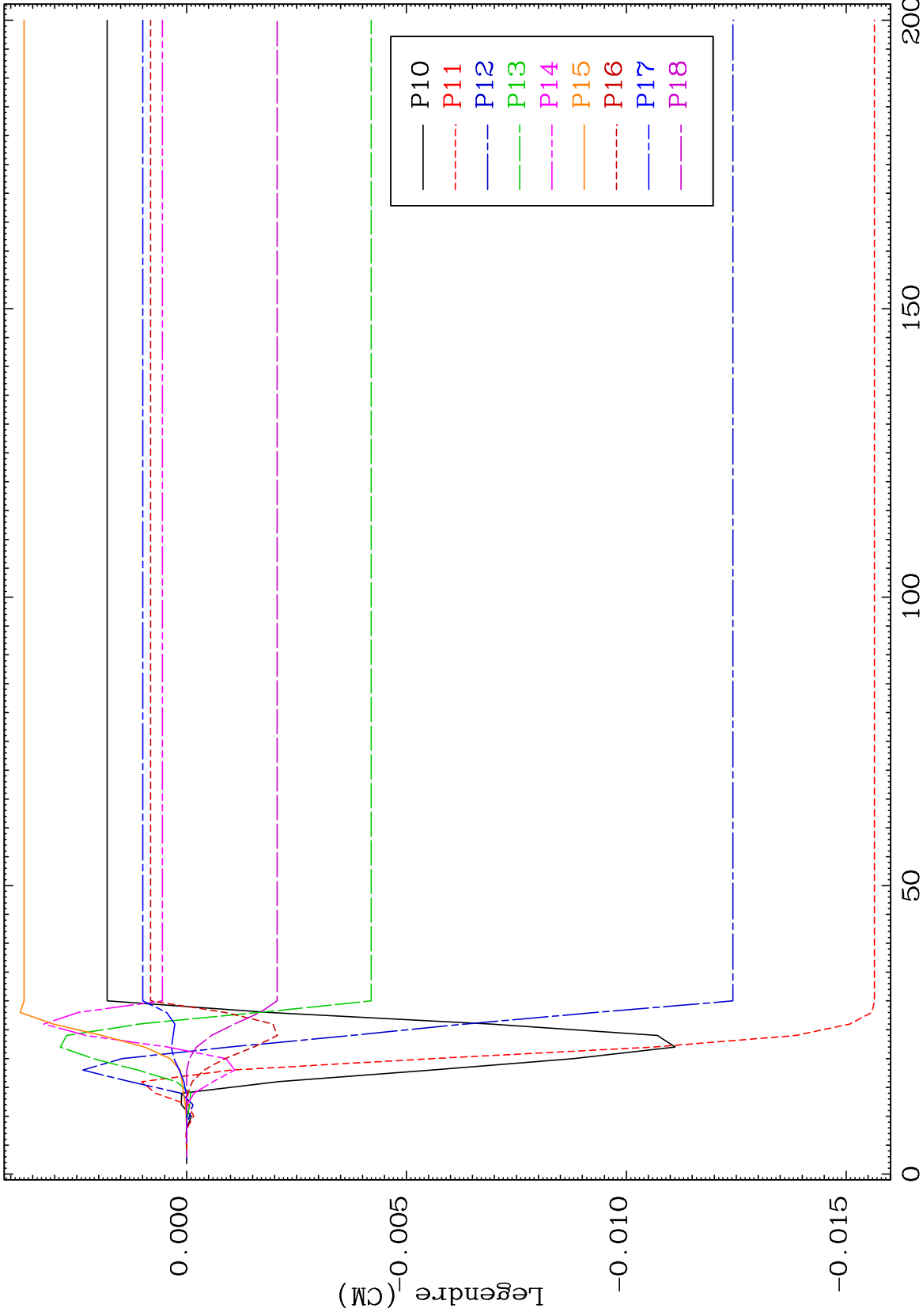
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



117

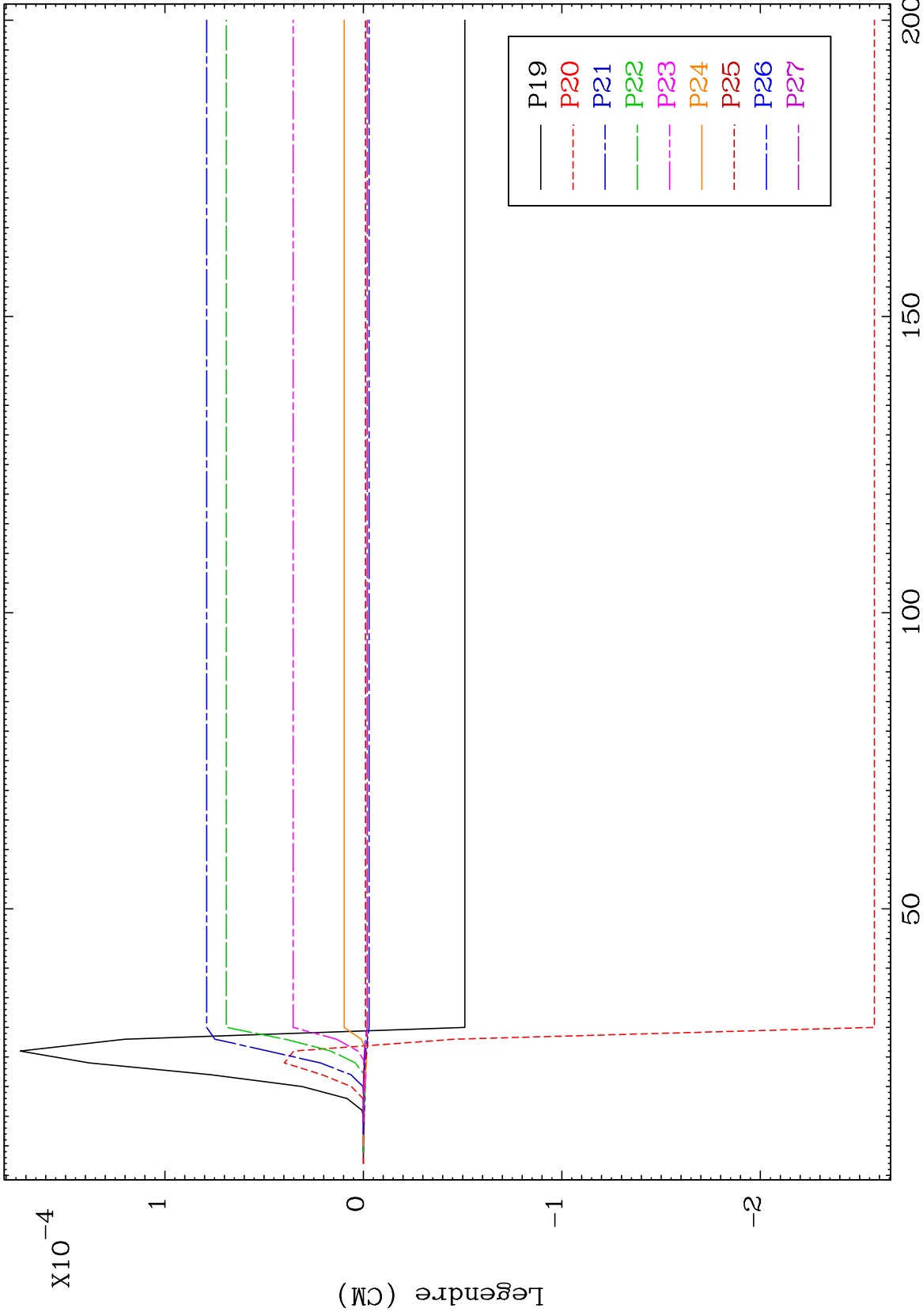
Incident Energy (MeV)

79-Au-191

MAT 7907

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

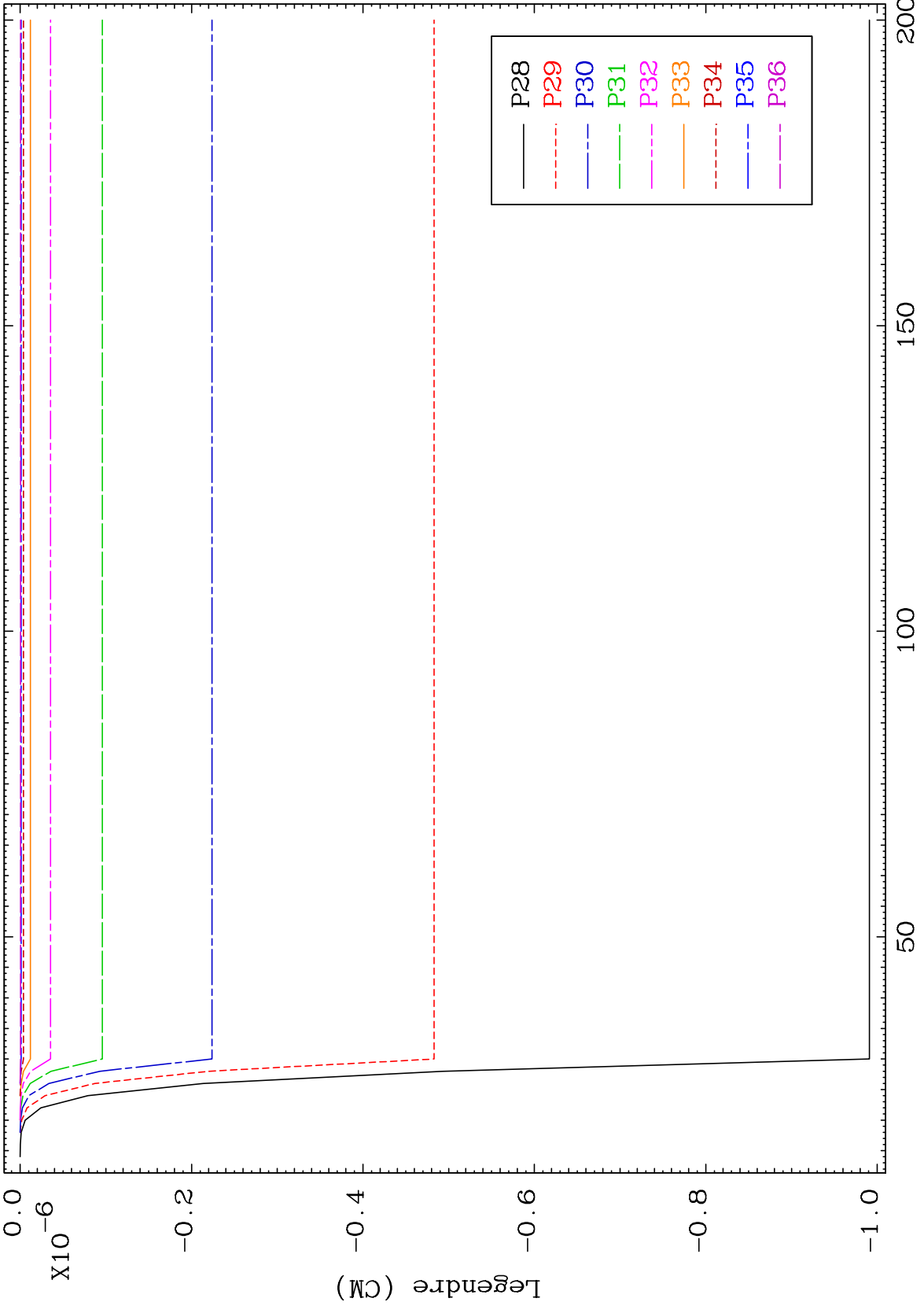
79-Au-191



118

79-Au-191

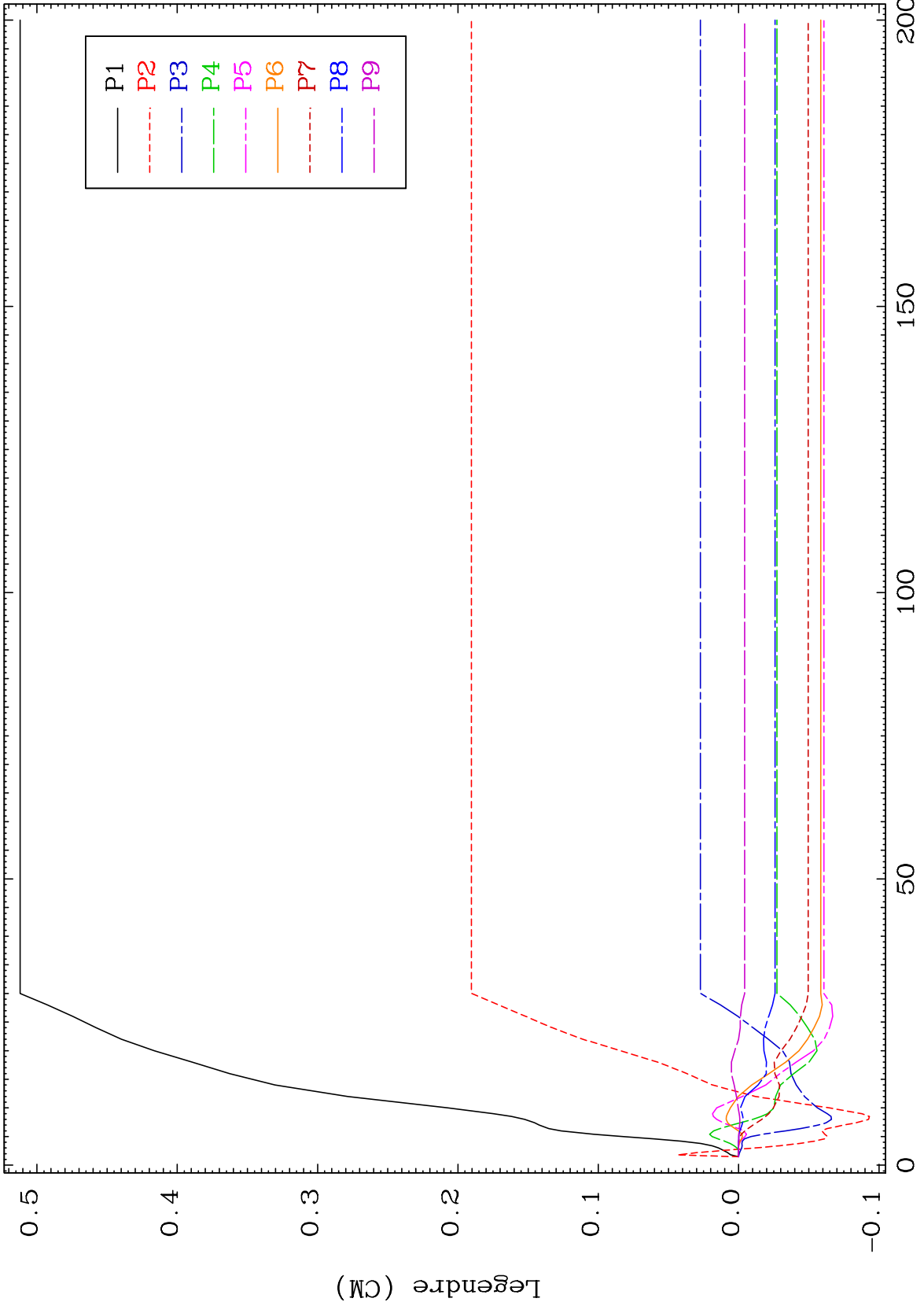
MAT 7907 MT= 75 (n,n') Level Legendre Coefficients 79-Au-191



MAT 7907

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

79-Au-191



120

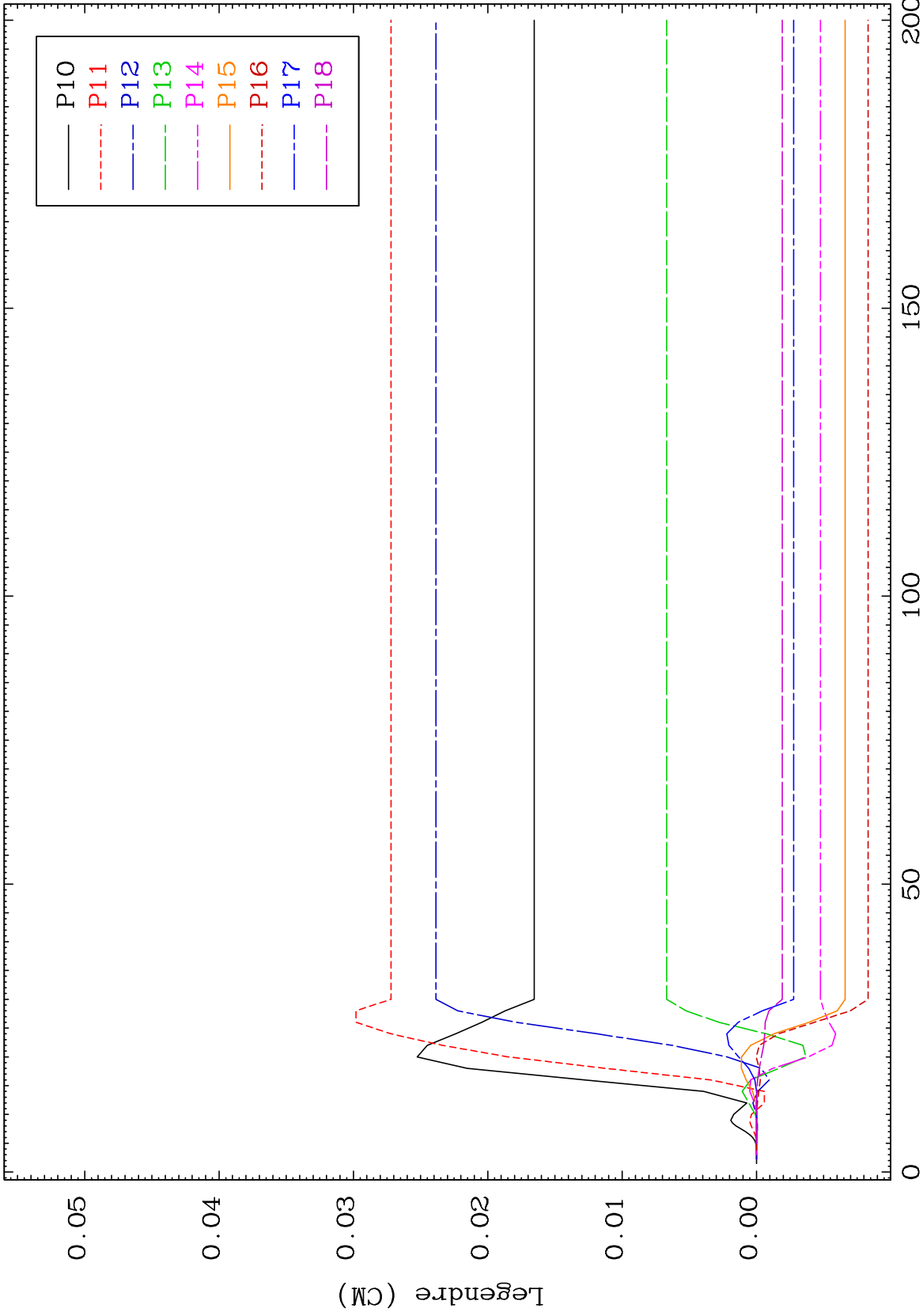
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



79-Au-191

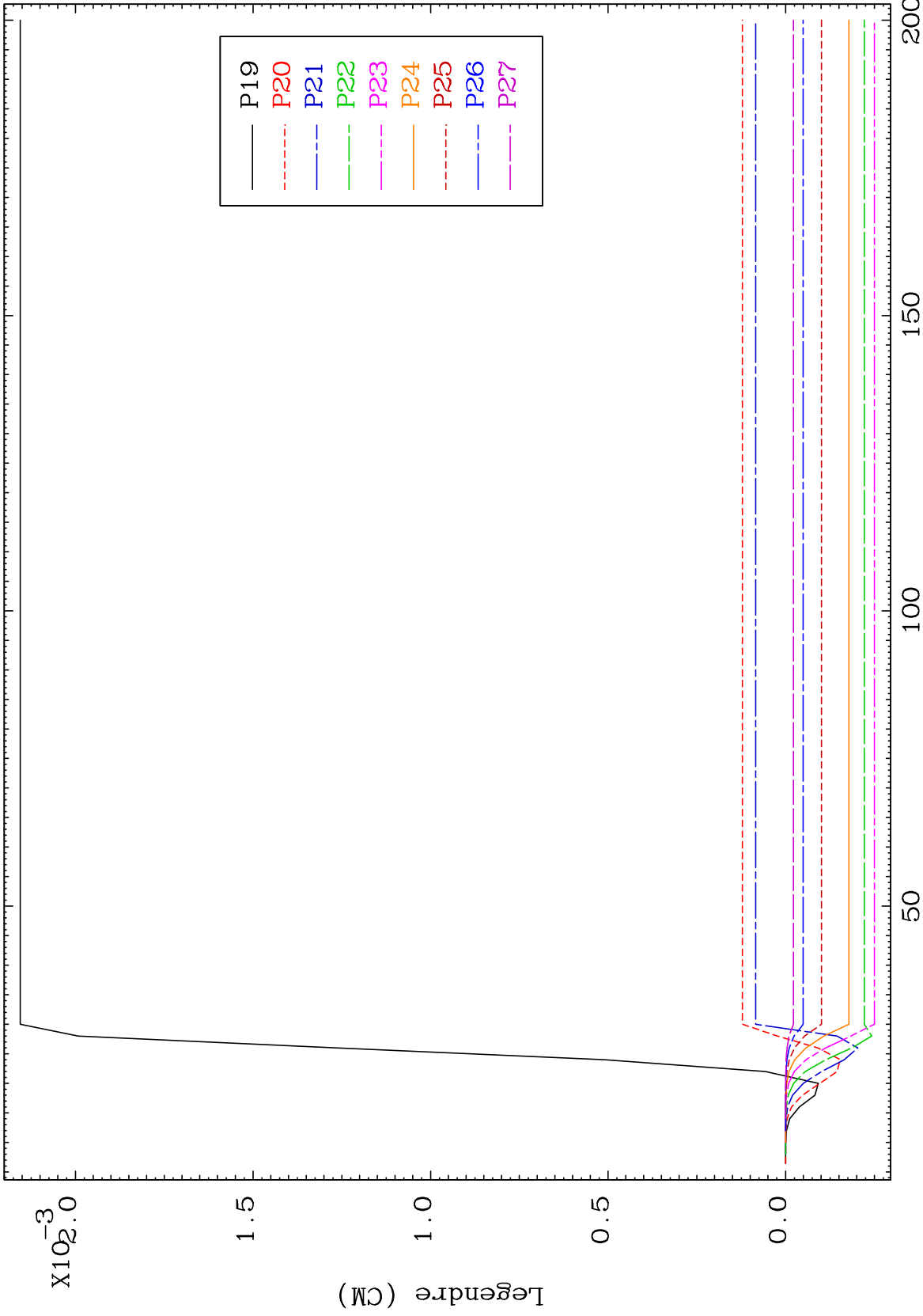
Incident Energy (MeV)

121

MAT 7907

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

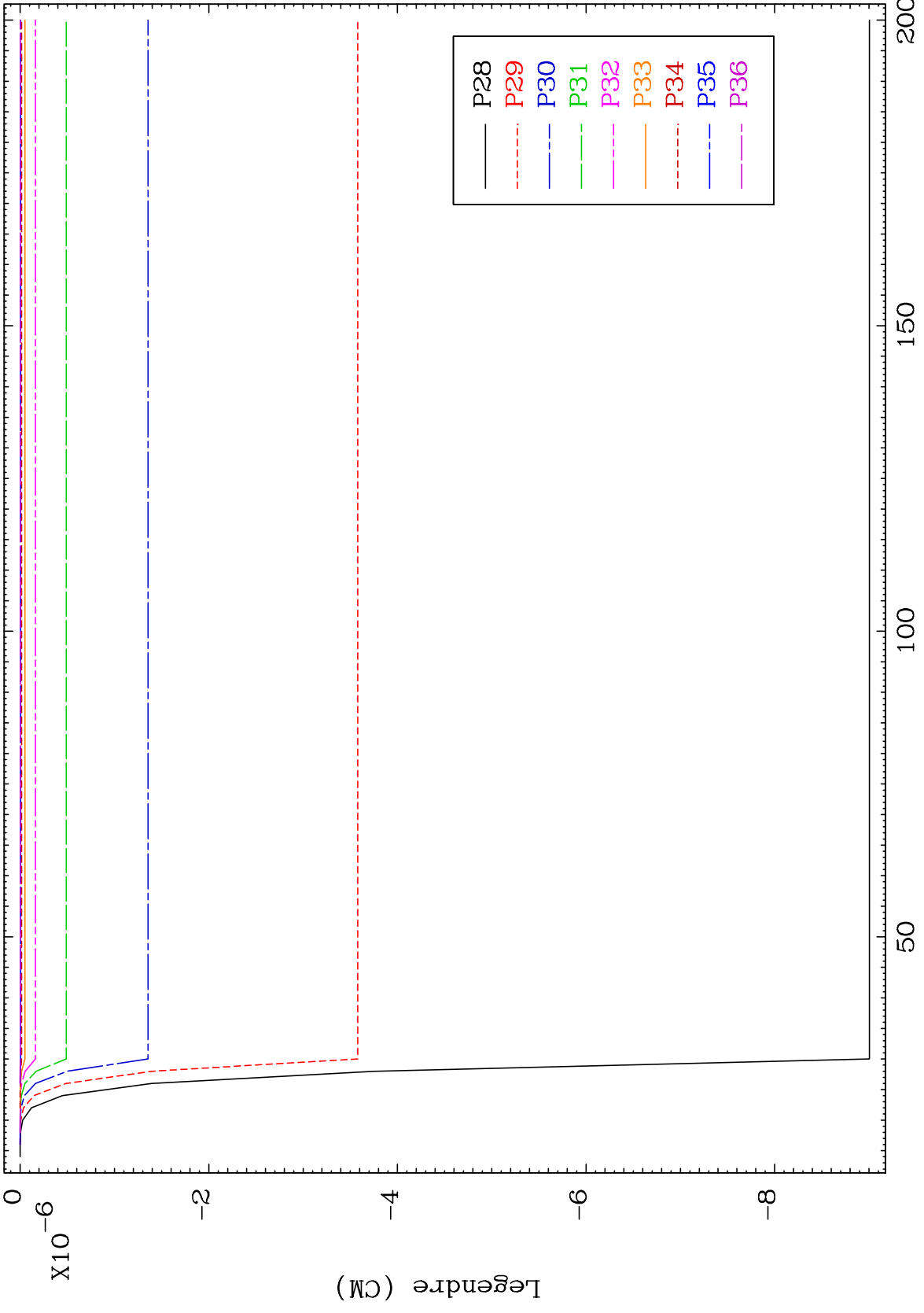
79-Au-191



122

79-Au-191

MAT 7907 MT= 76 (n,n') Level Legendre Coefficients 79-Au-191

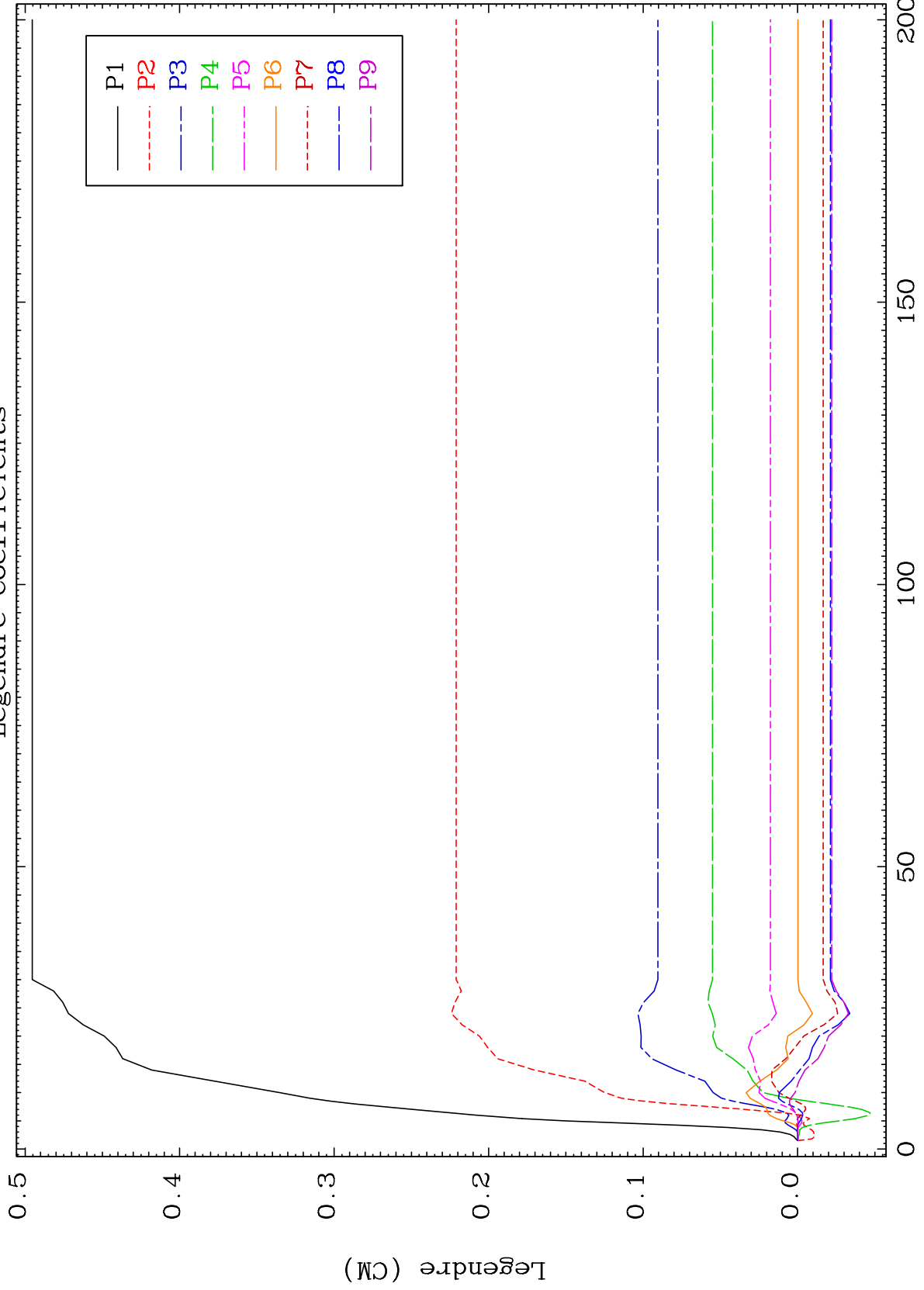


123 79-Au-191

MAT 7907

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

79-Au-191



124

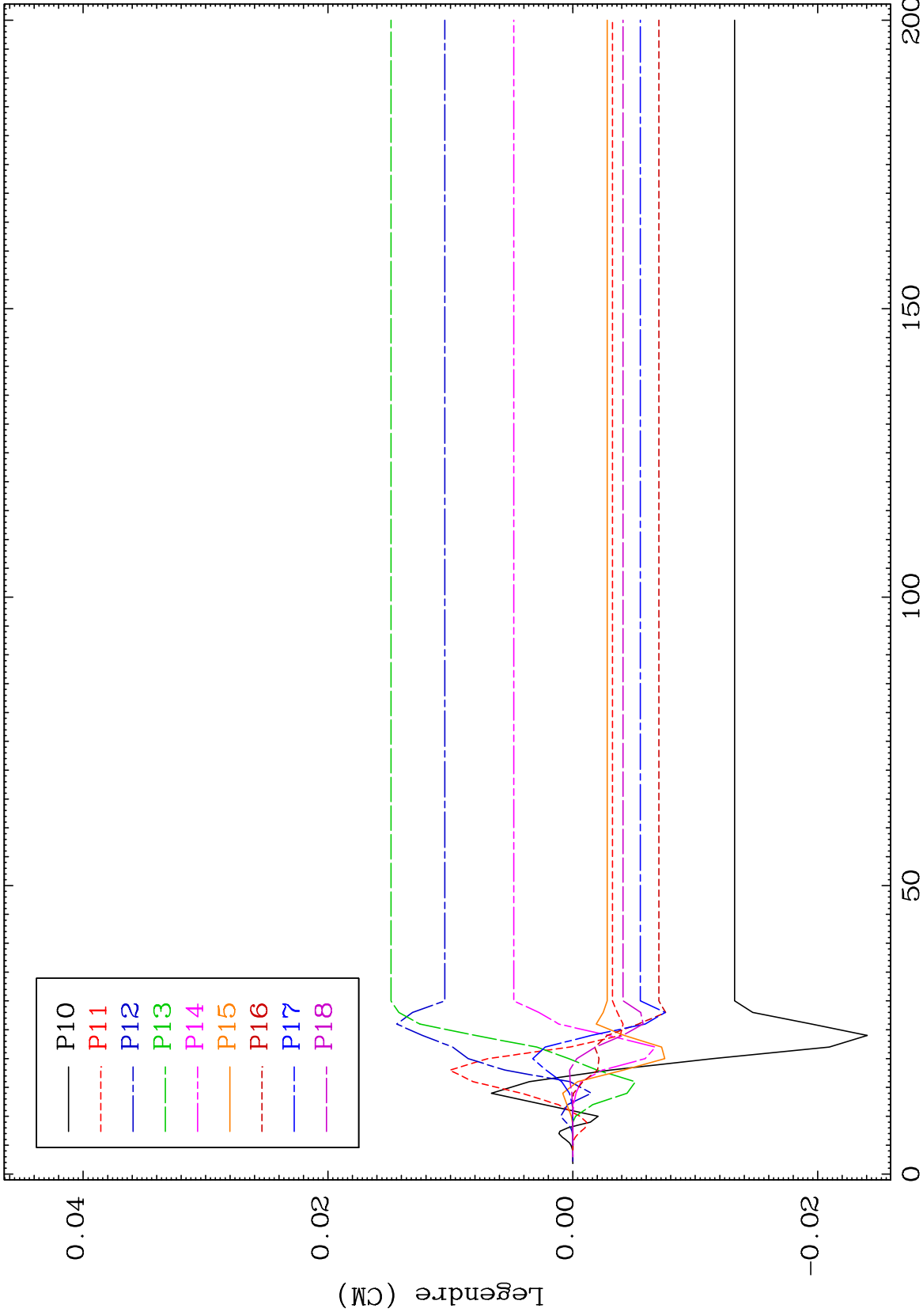
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



125

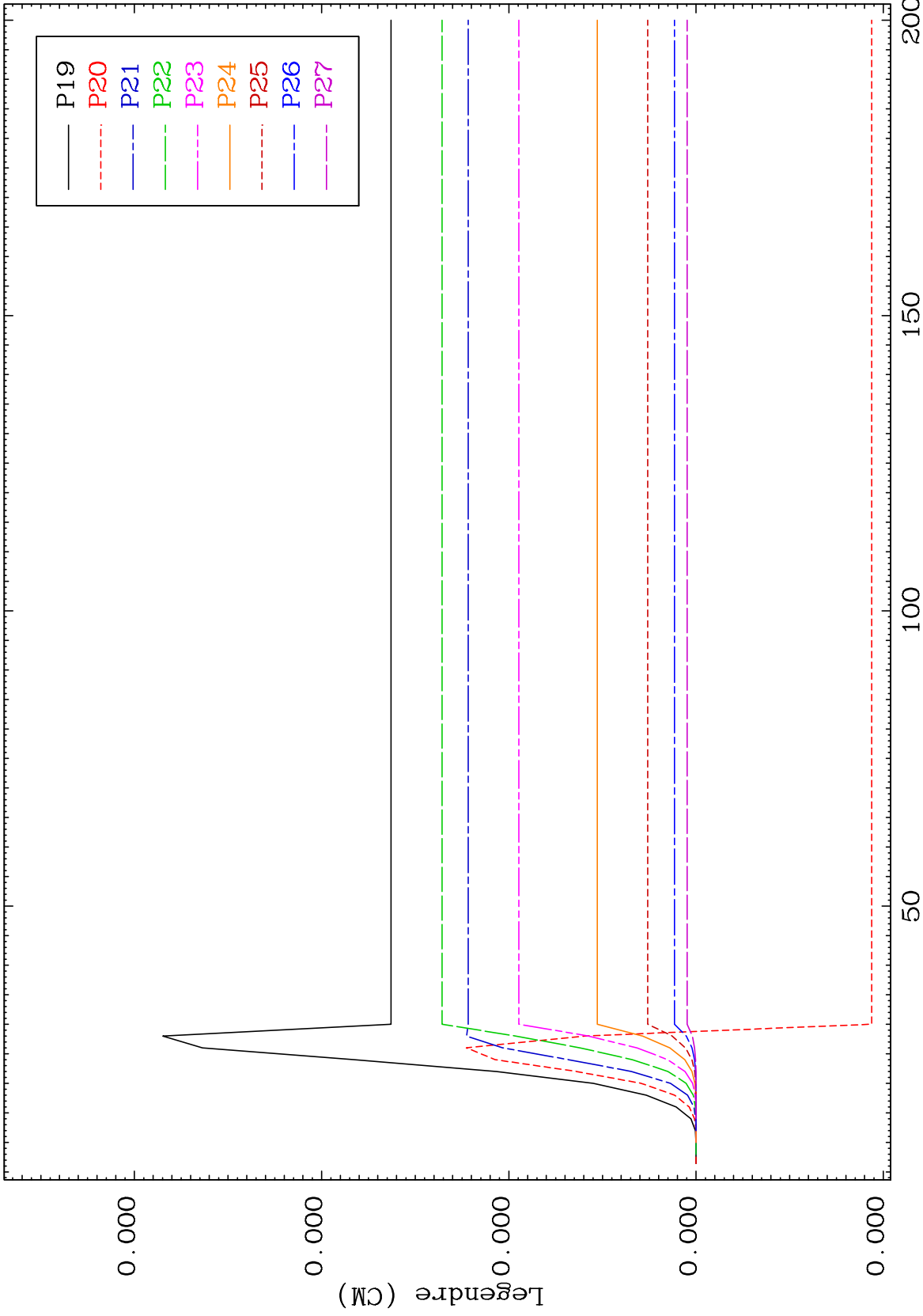
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



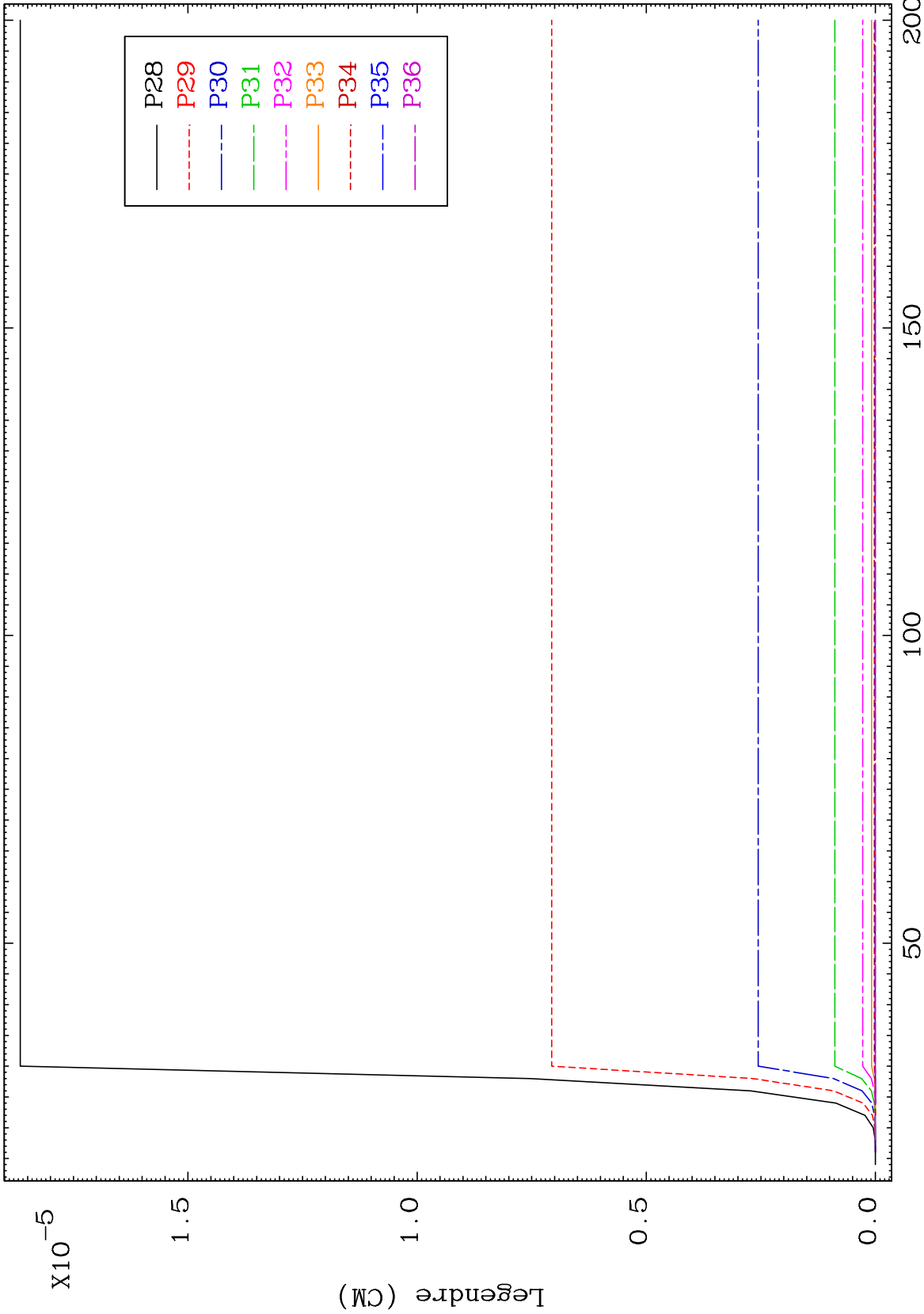
126

79-Au-191

MAT 7907

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

79-Au-191



127

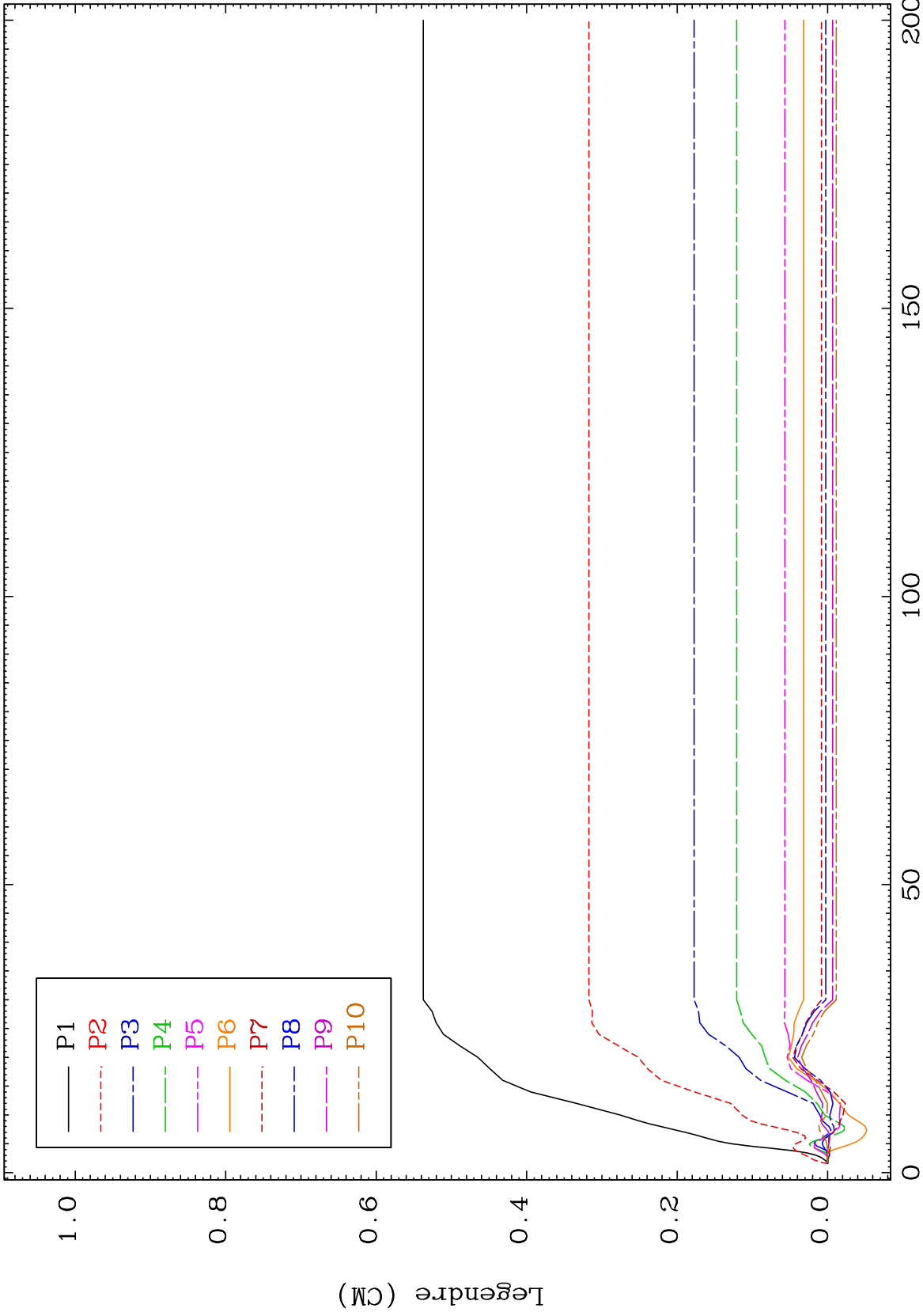
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191

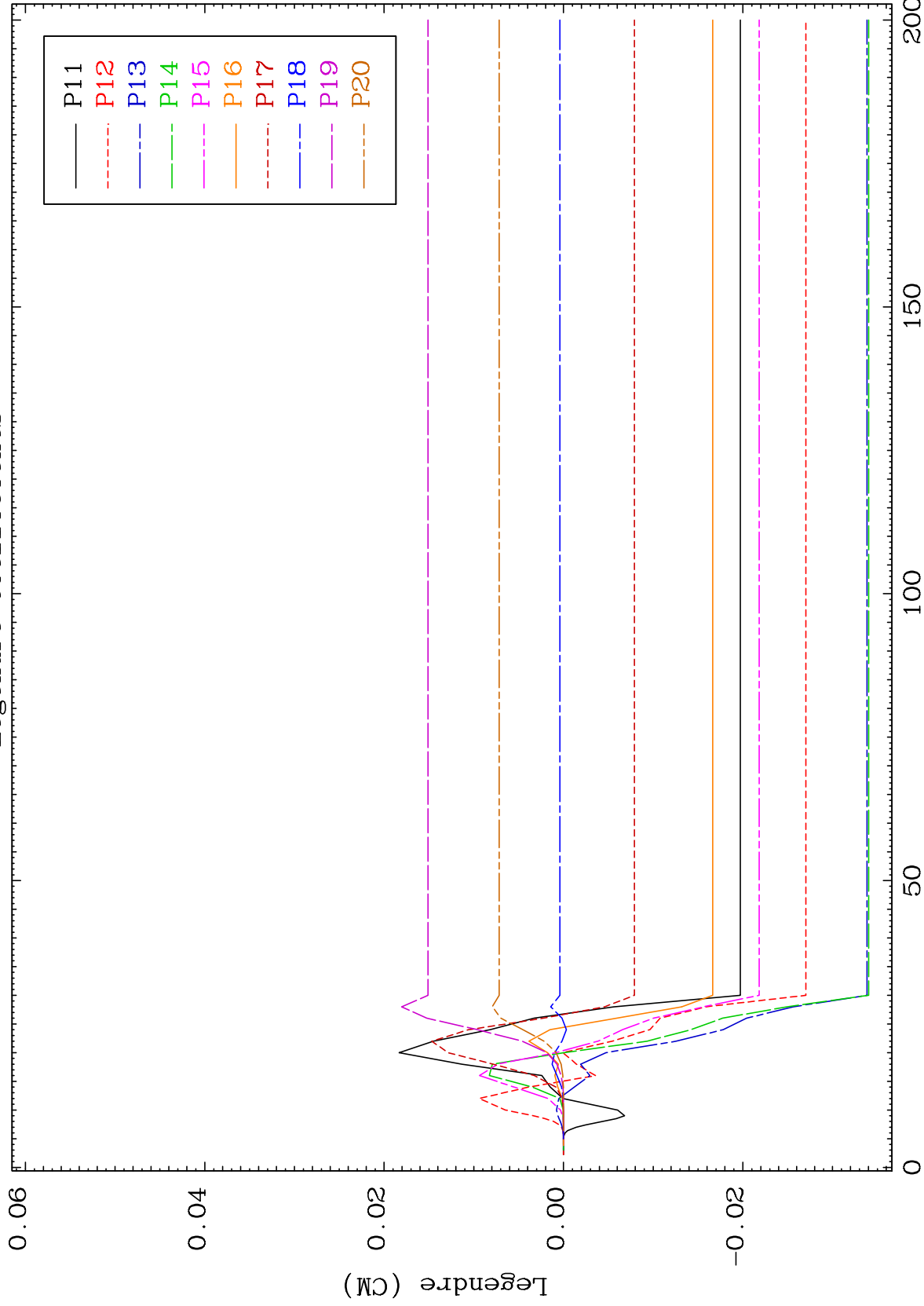


128

MAT 7907

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

79-Au-191



129

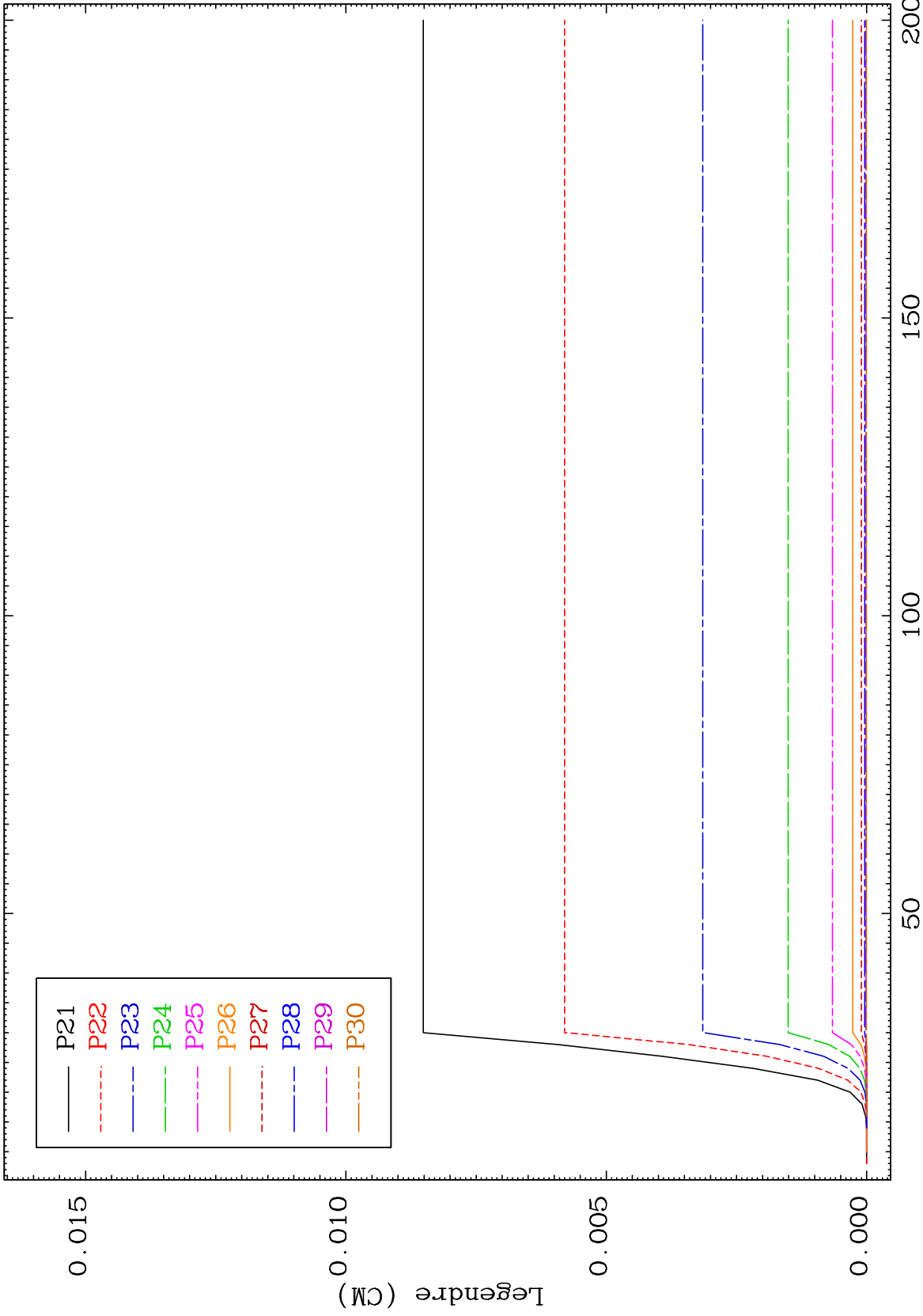
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



130

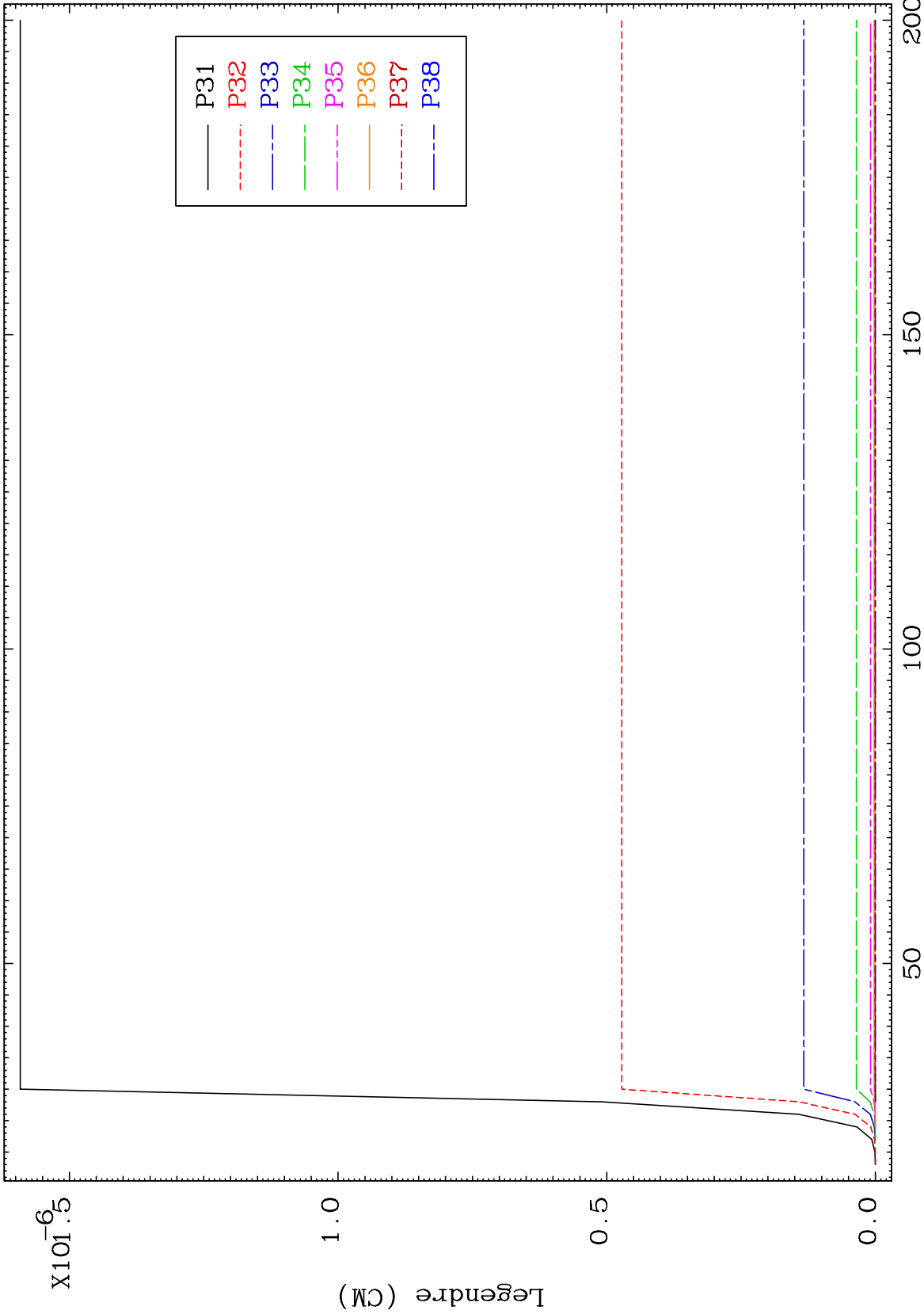
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



131

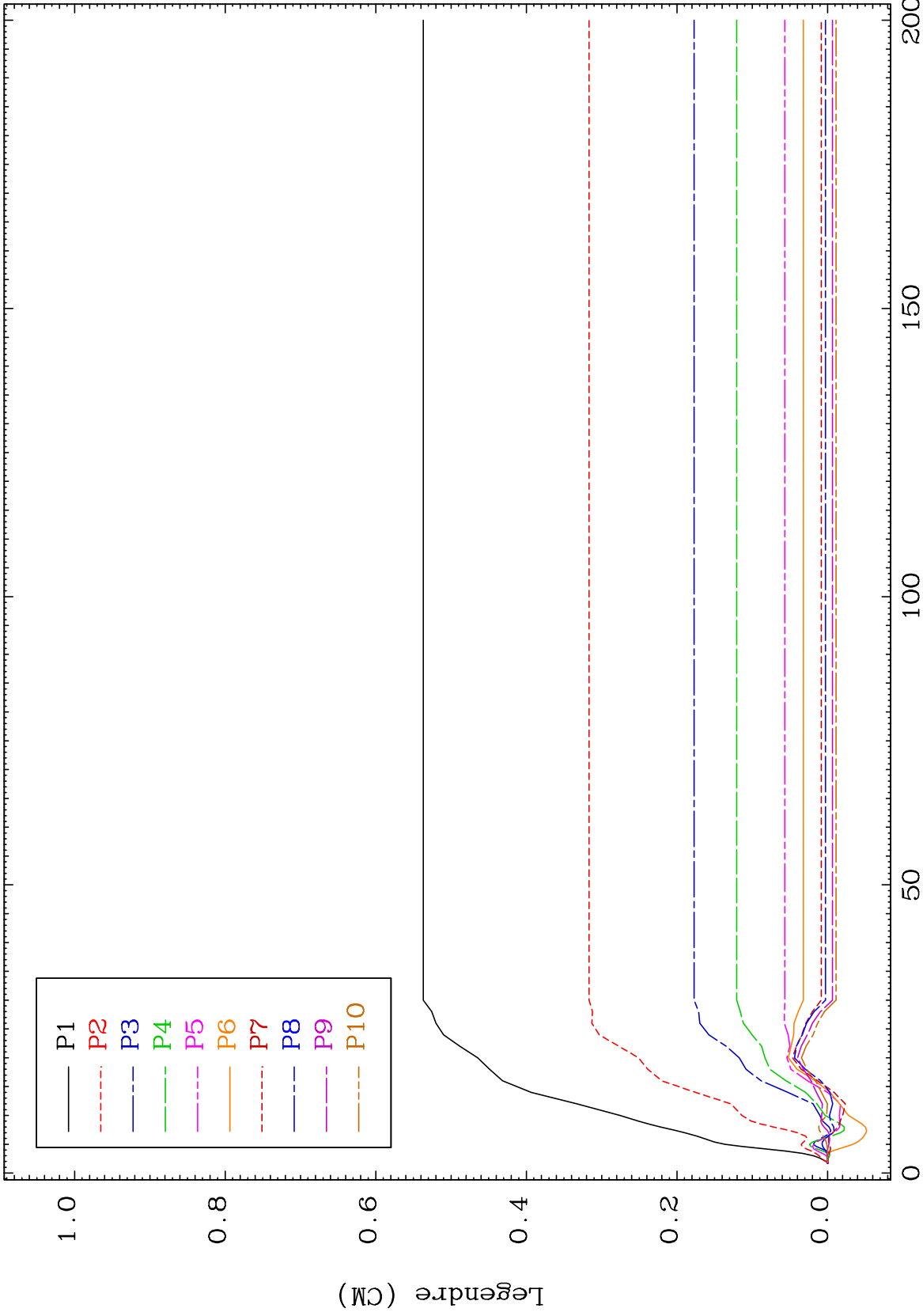
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



79-Au-191

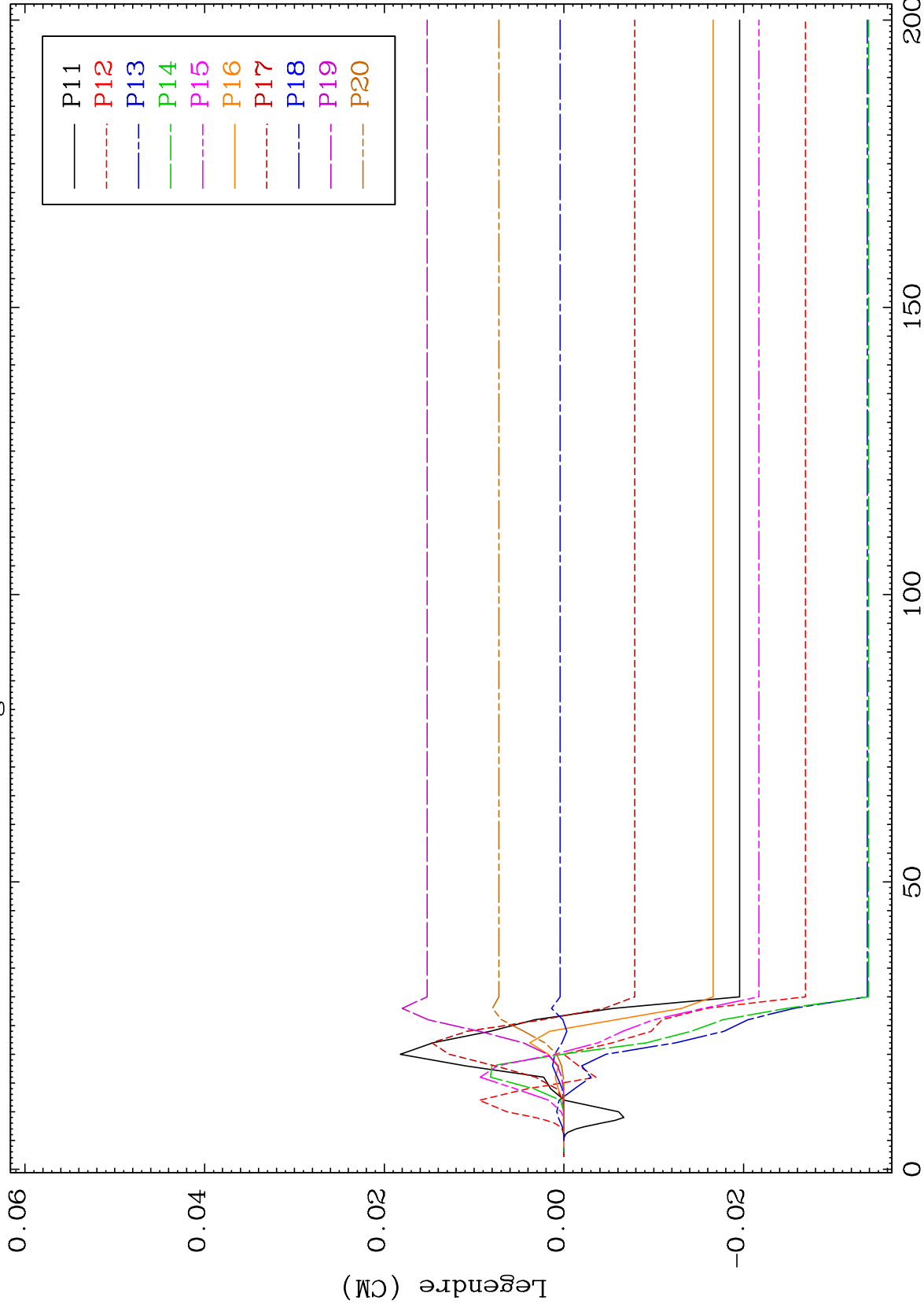
Incident Energy (MeV)

132

MAT 7907

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

79-Au-191



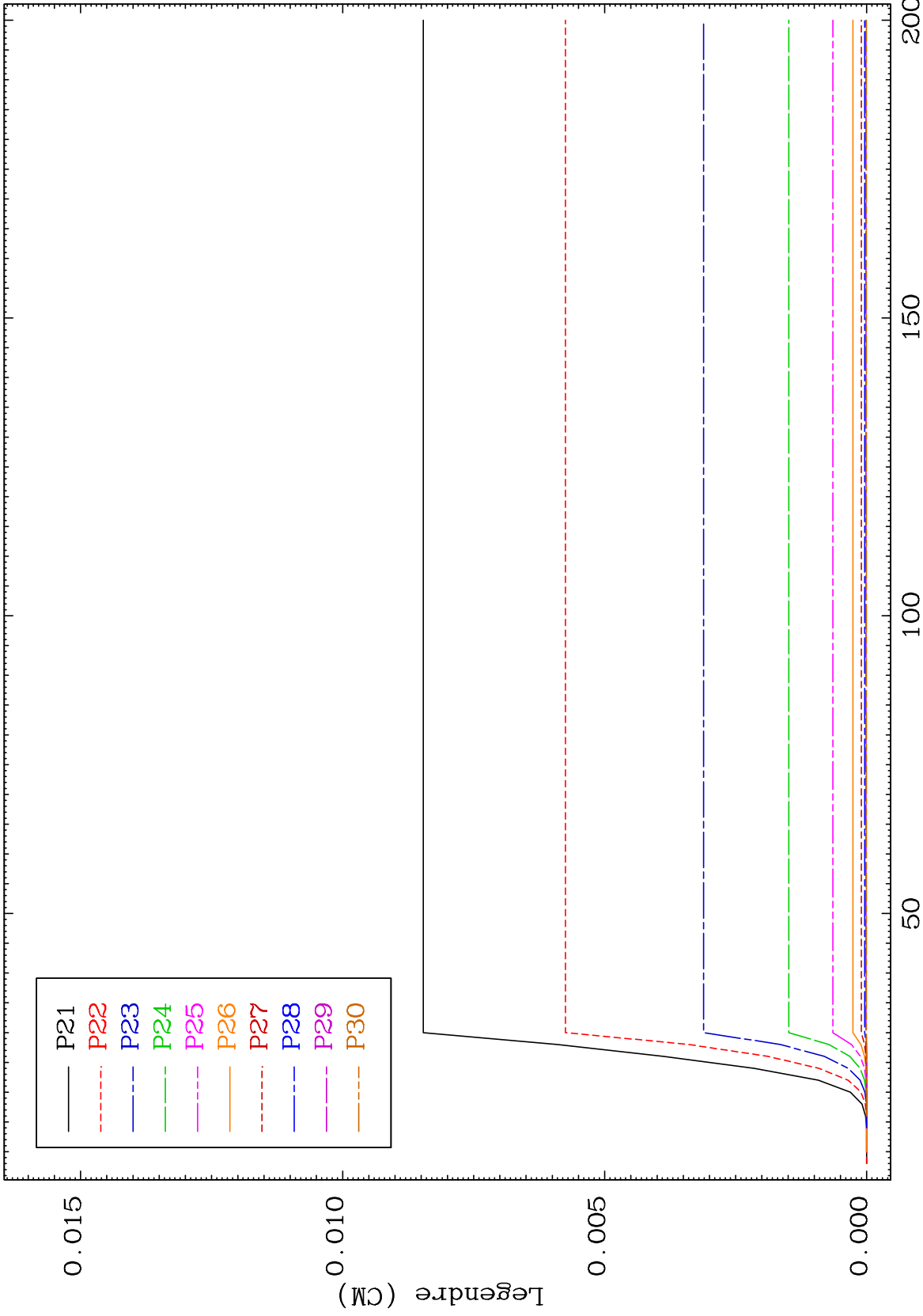
133

79-Au-191

MAT 7907

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

79-Au-191



134

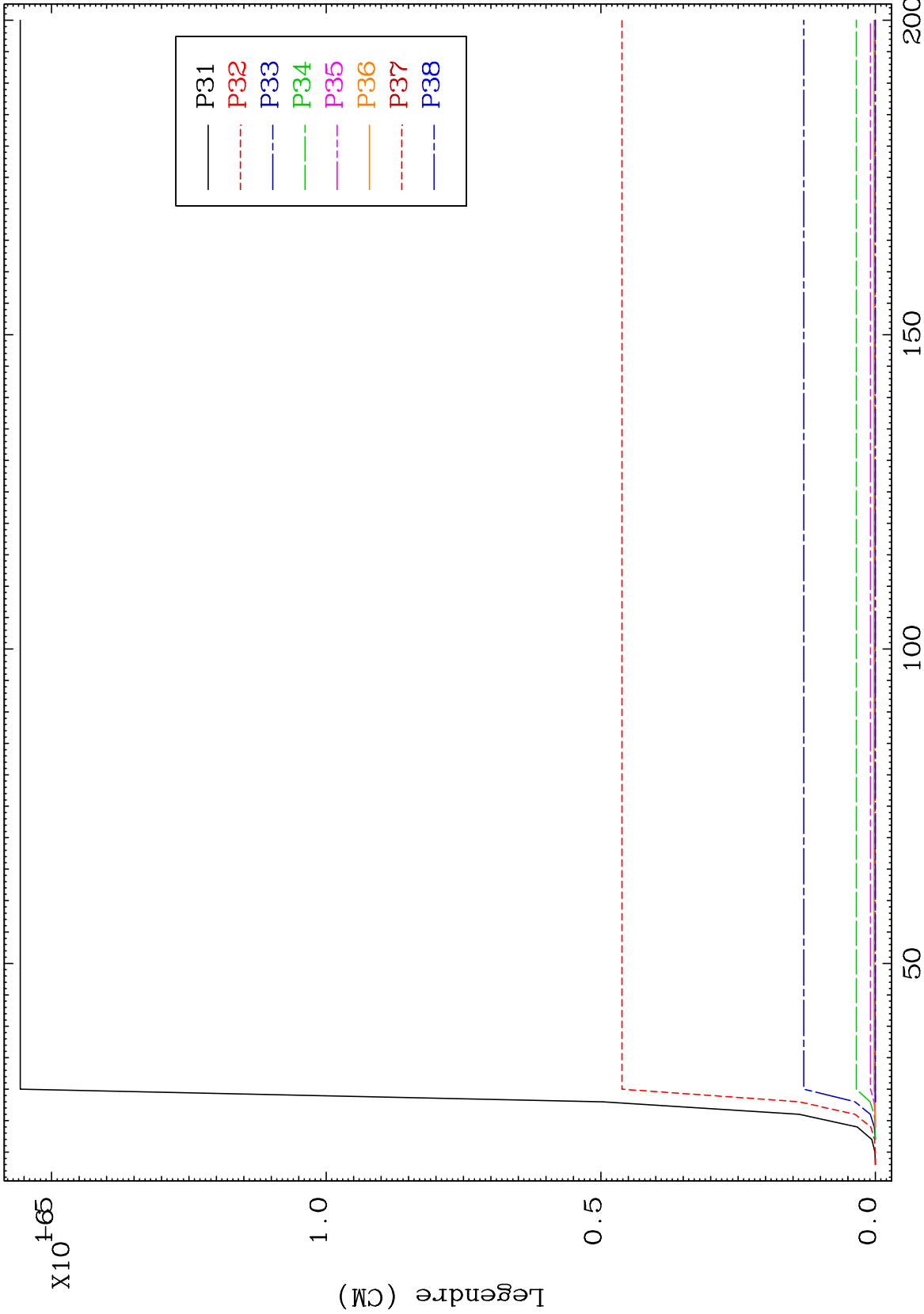
Incident Energy (MeV)

79-Au-191

MAT 7907

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

79-Au-191



135

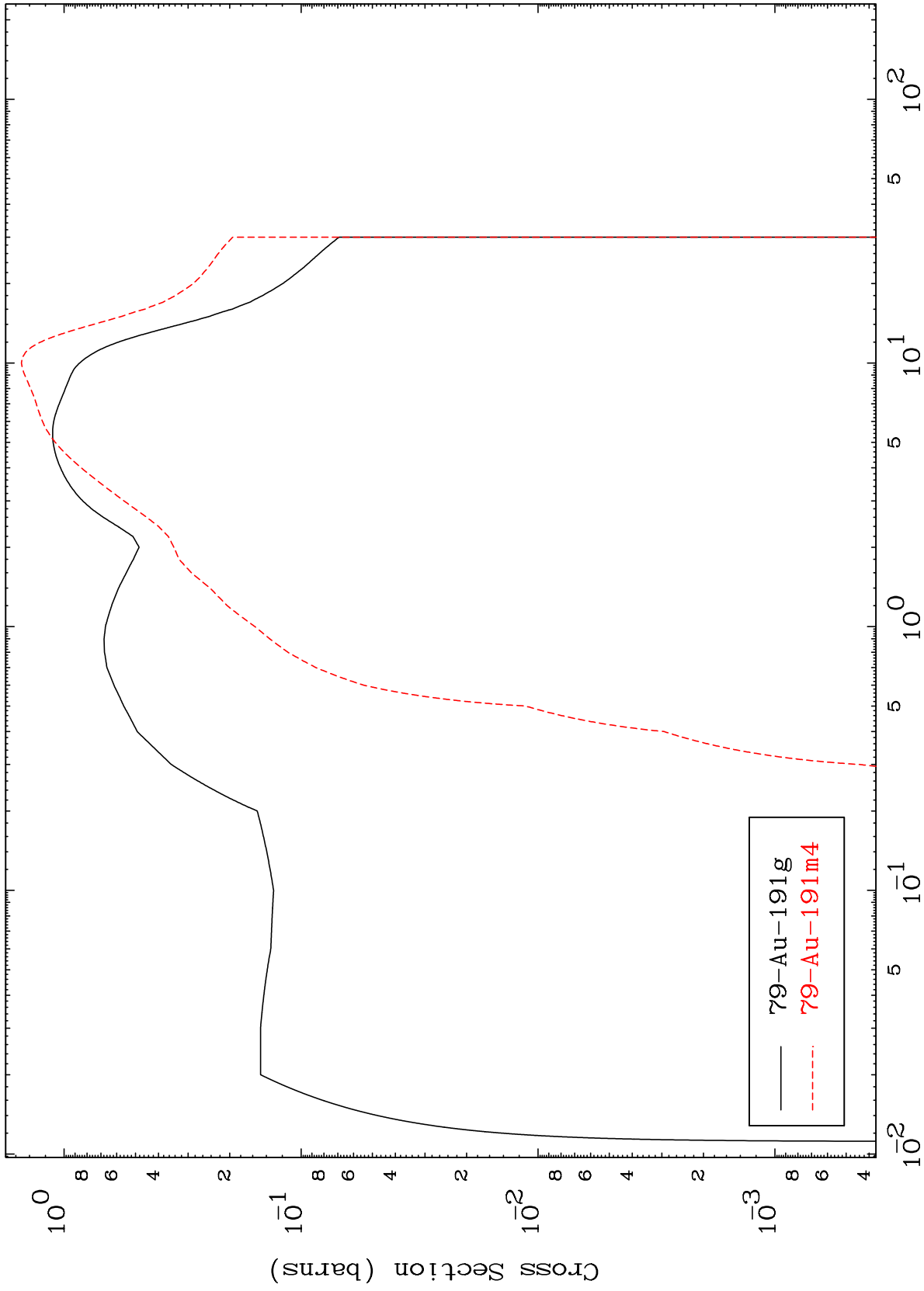
Incident Energy (MeV)

79-Au-191

MAT 7907

⁷⁹Au-191

Inelastic
Radionuclide Production Cross Section



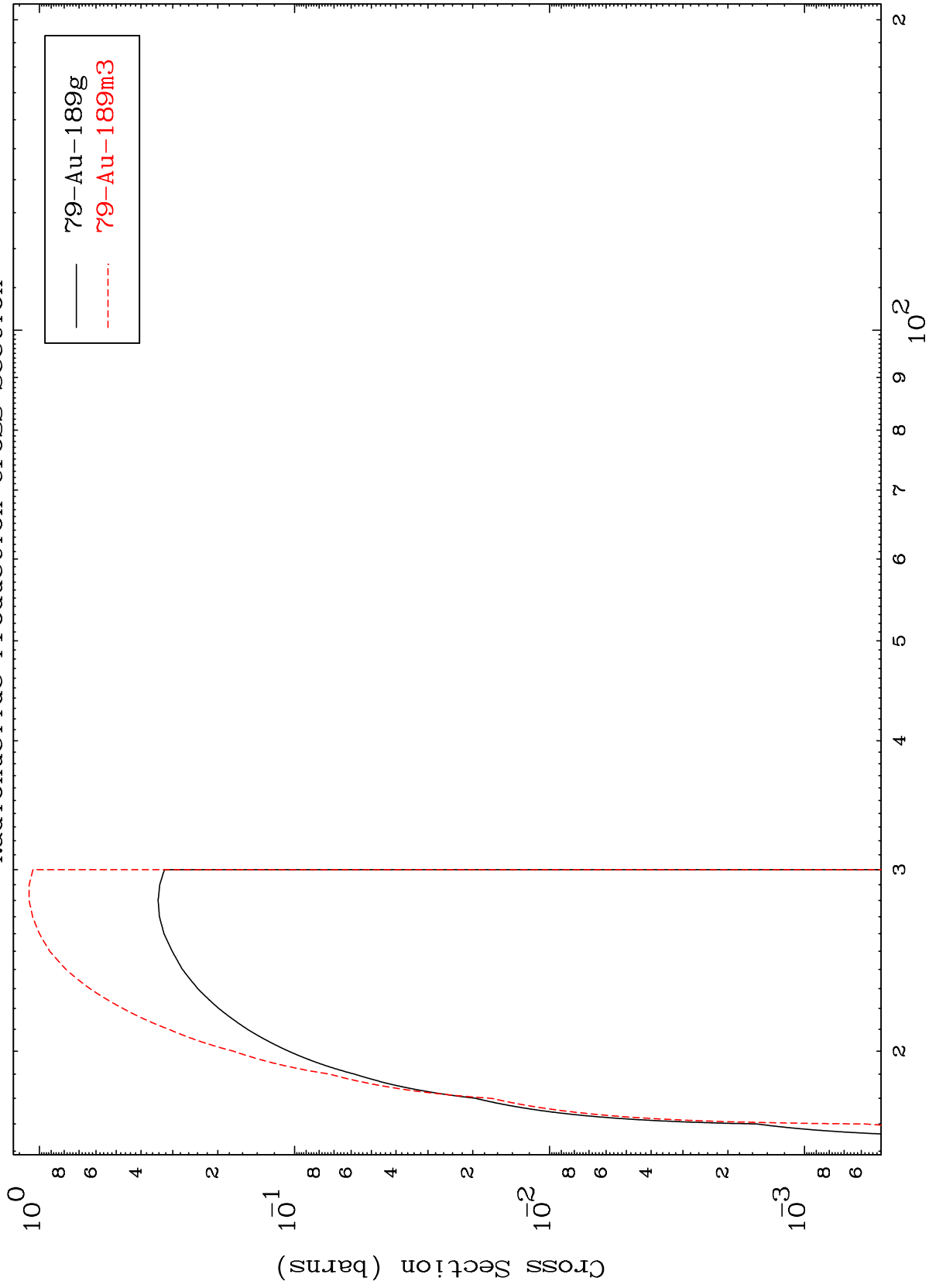
136

⁷⁹Au-191

MAT 7907

⁷⁹Au-191

(n,3n)
Radionuclide Production Cross Section



137

Incident Energy (MeV)

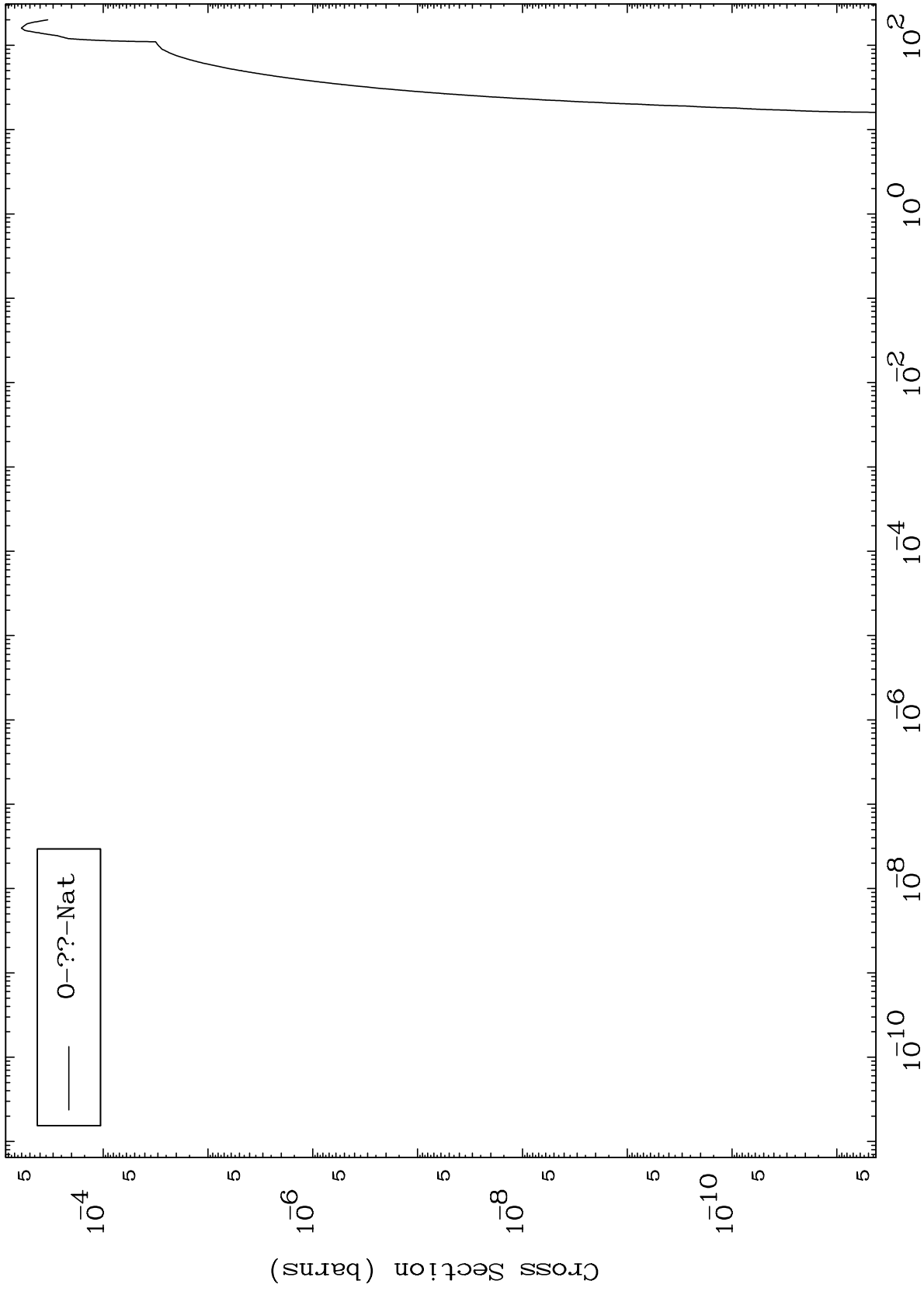
⁷⁹Au-191

MAT 7907

Fission

⁷⁹Au-191

Radionuclide Production Cross Section



138

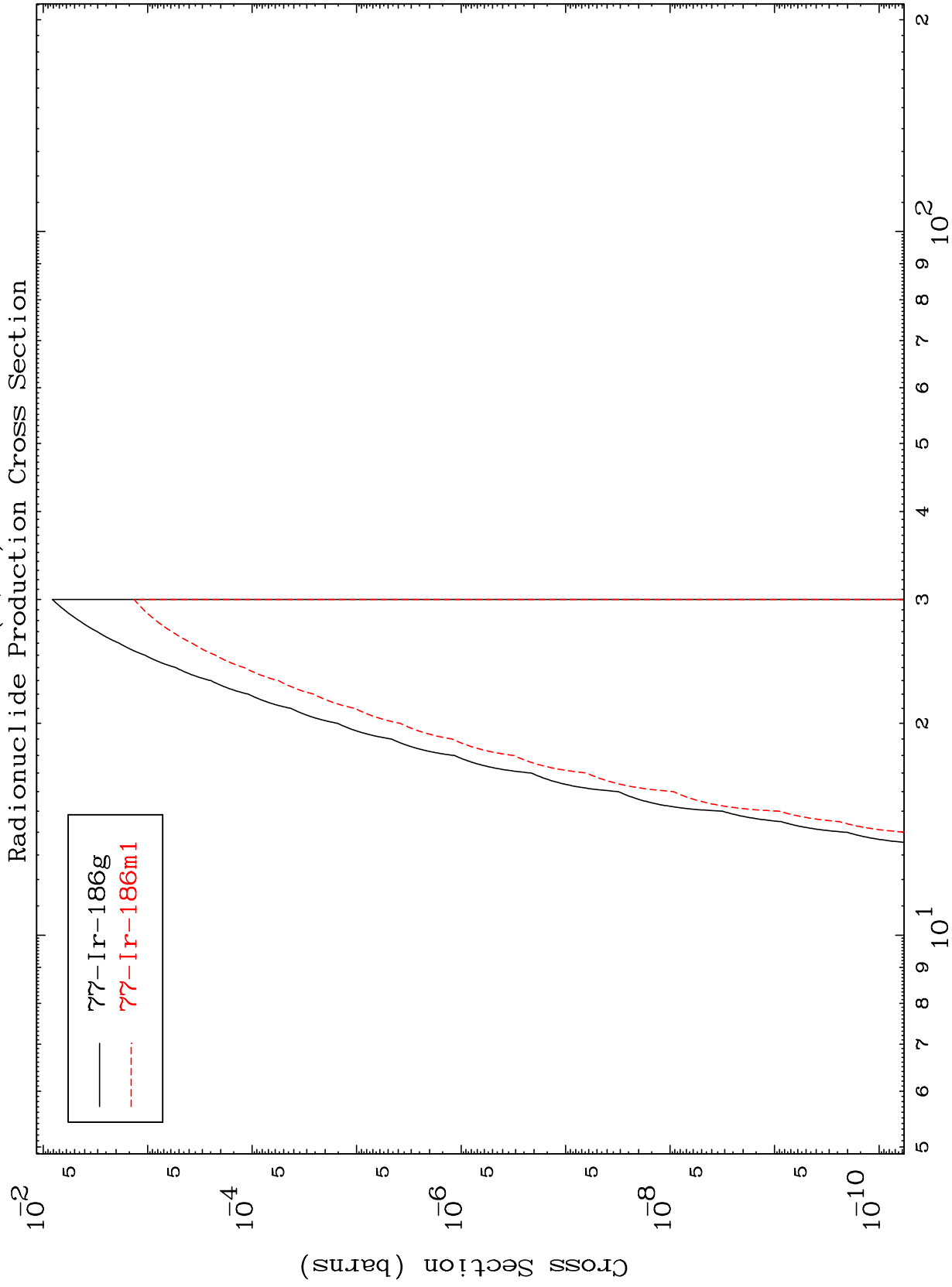
Incident Energy (MeV)

⁷⁹Au-191

MAT 7907

$(n, 2n) \alpha$

$^{79}\text{Au-191}$



$^{77}\text{Ir-186g}$
 $^{77}\text{Ir-186m1}$

139

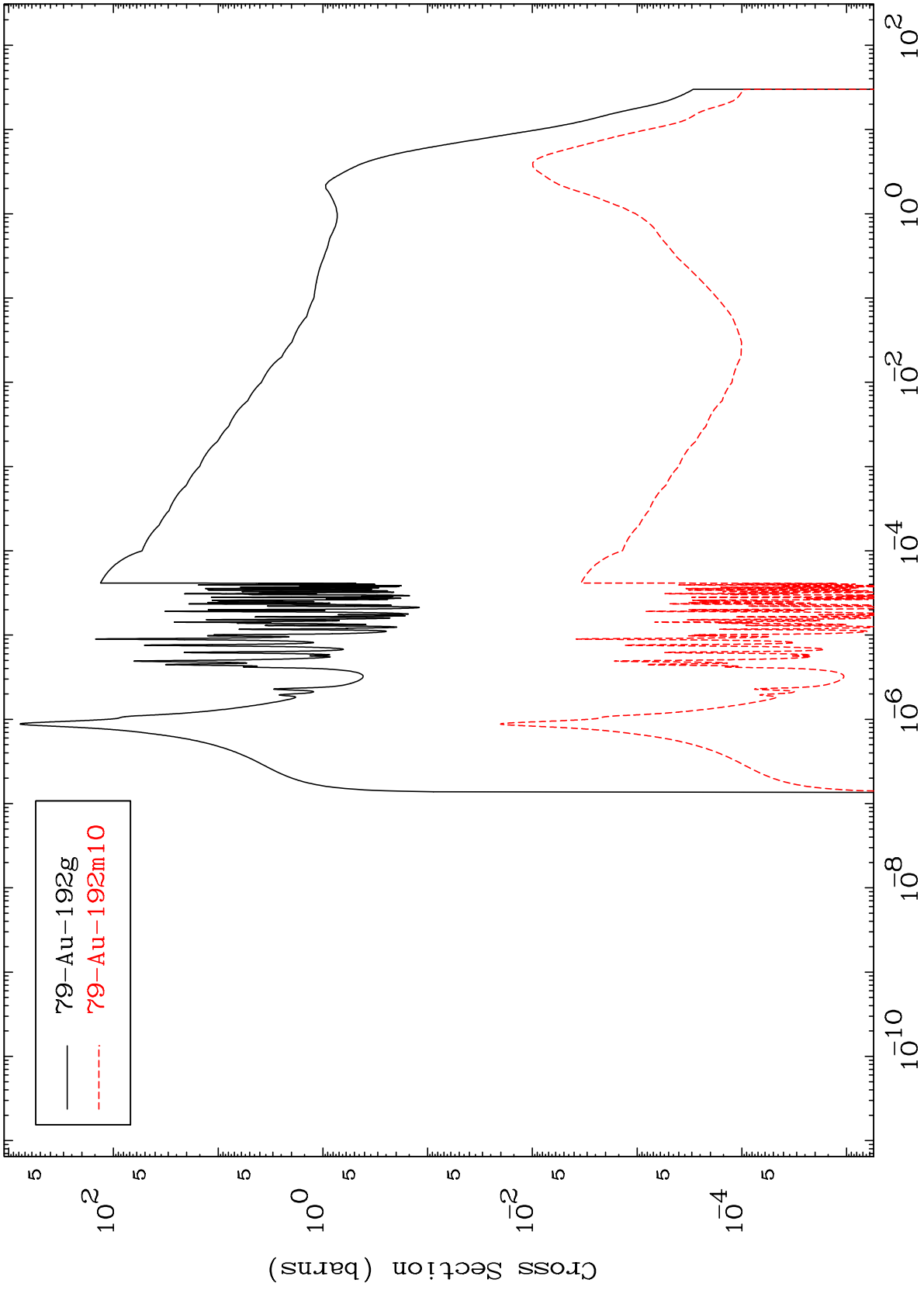
Incident Energy (MeV)

$^{79}\text{Au-191}$

MAT 7907

Radionuclide Production Cross Section
(n,γ)

⁷⁹Au-191



140

Incident Energy (MeV)

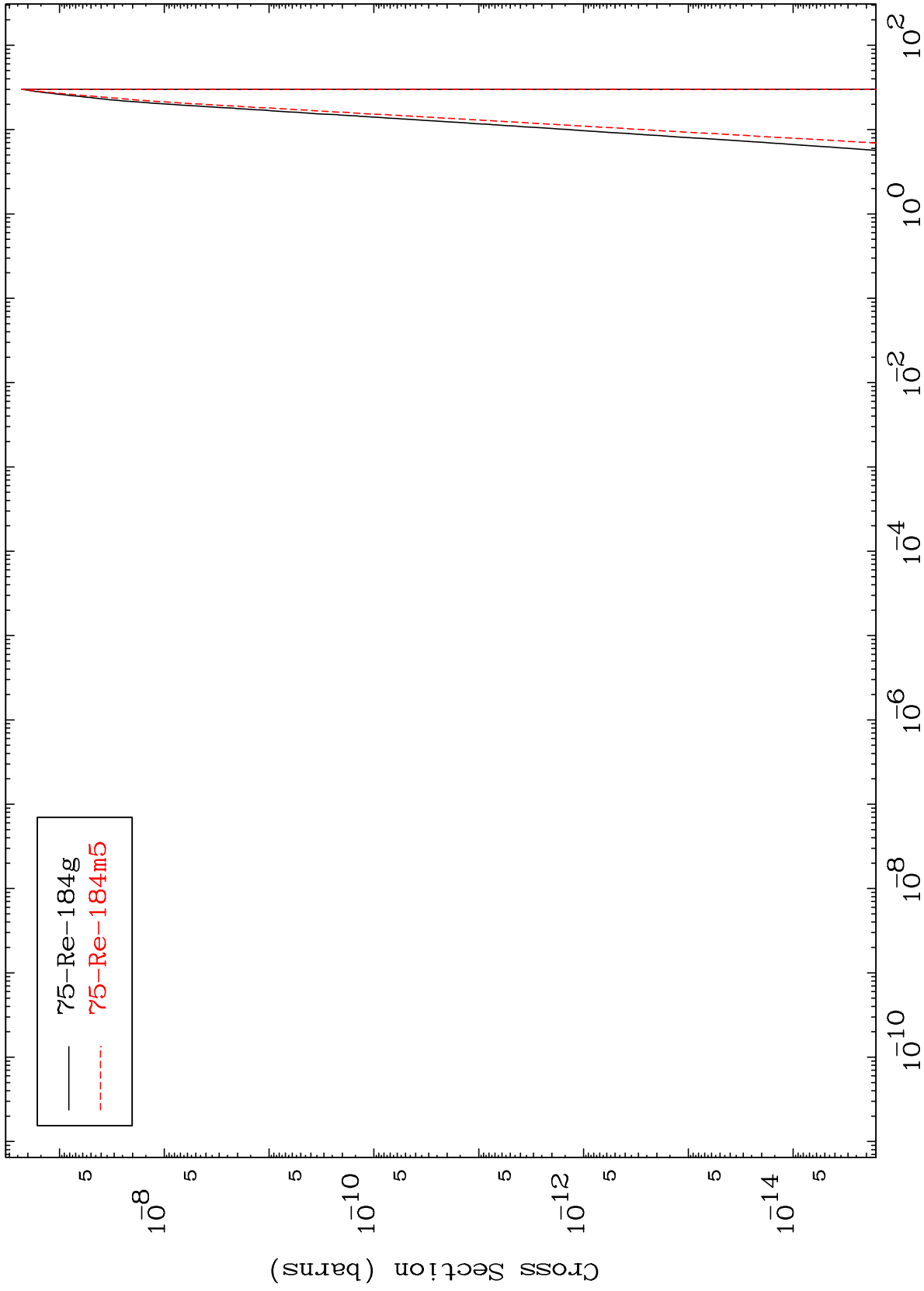
⁷⁹Au-191

MAT 7907

(n,2α)

79-Au-191

Radionuclide Production Cross Section



141

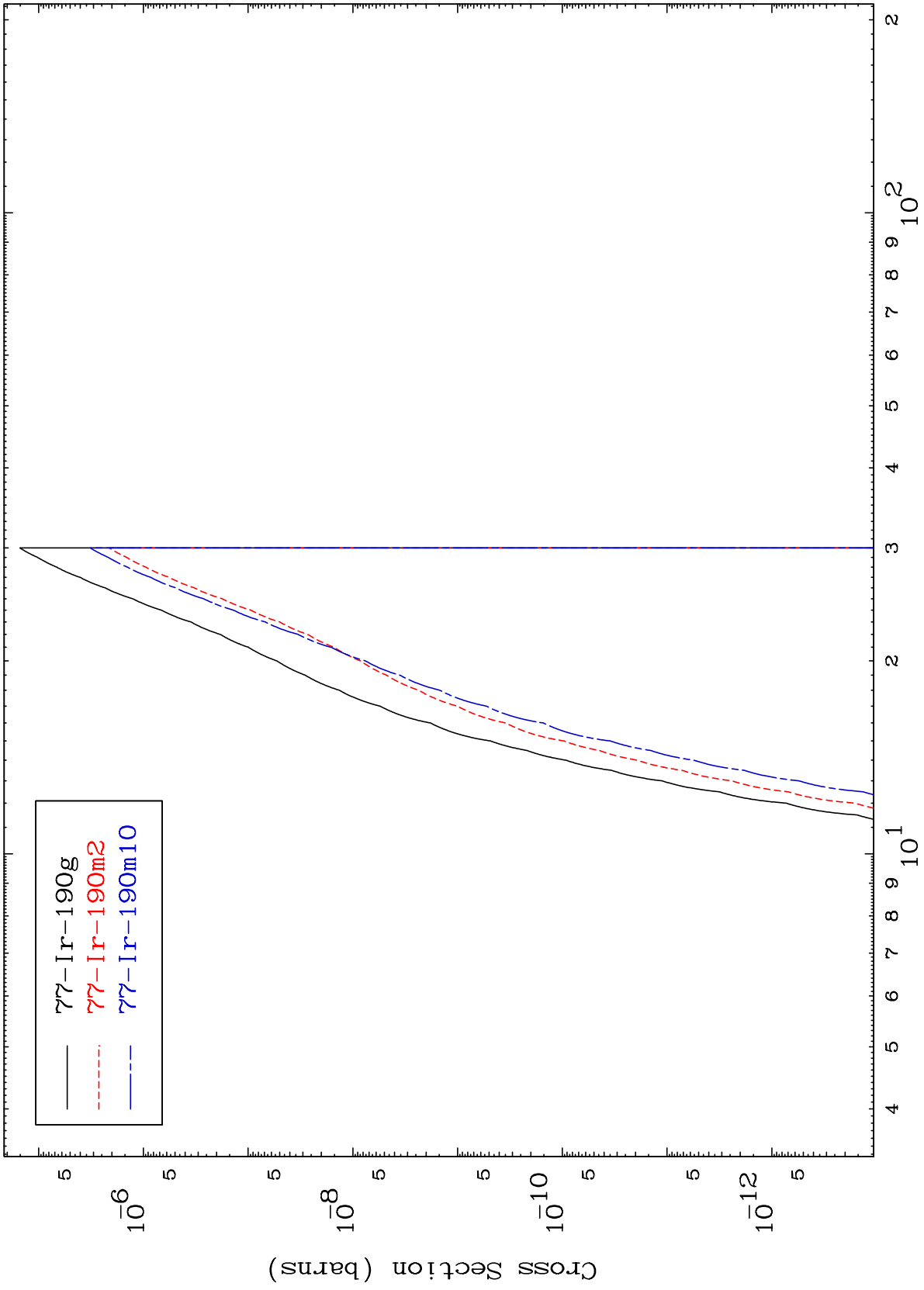
Incident Energy (MeV)

79-Au-191

MAT 7907

79-Au-191

(n,2p)
Radionuclide Production Cross Section



142

79-Au-191