

Program EVALPLOT
(Version 2018-1)

by

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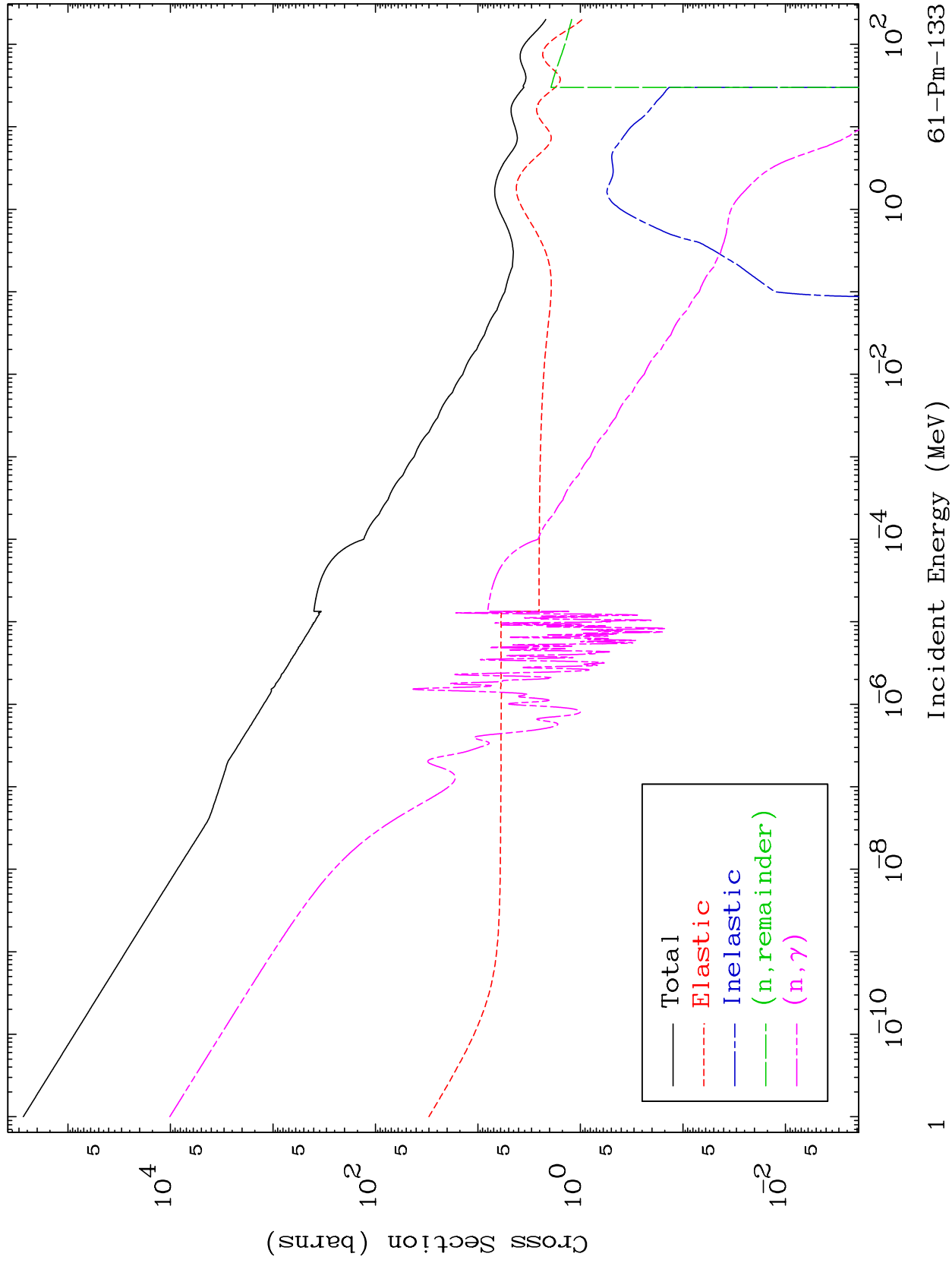
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6107

Major
293 Kelvin Cross Sections

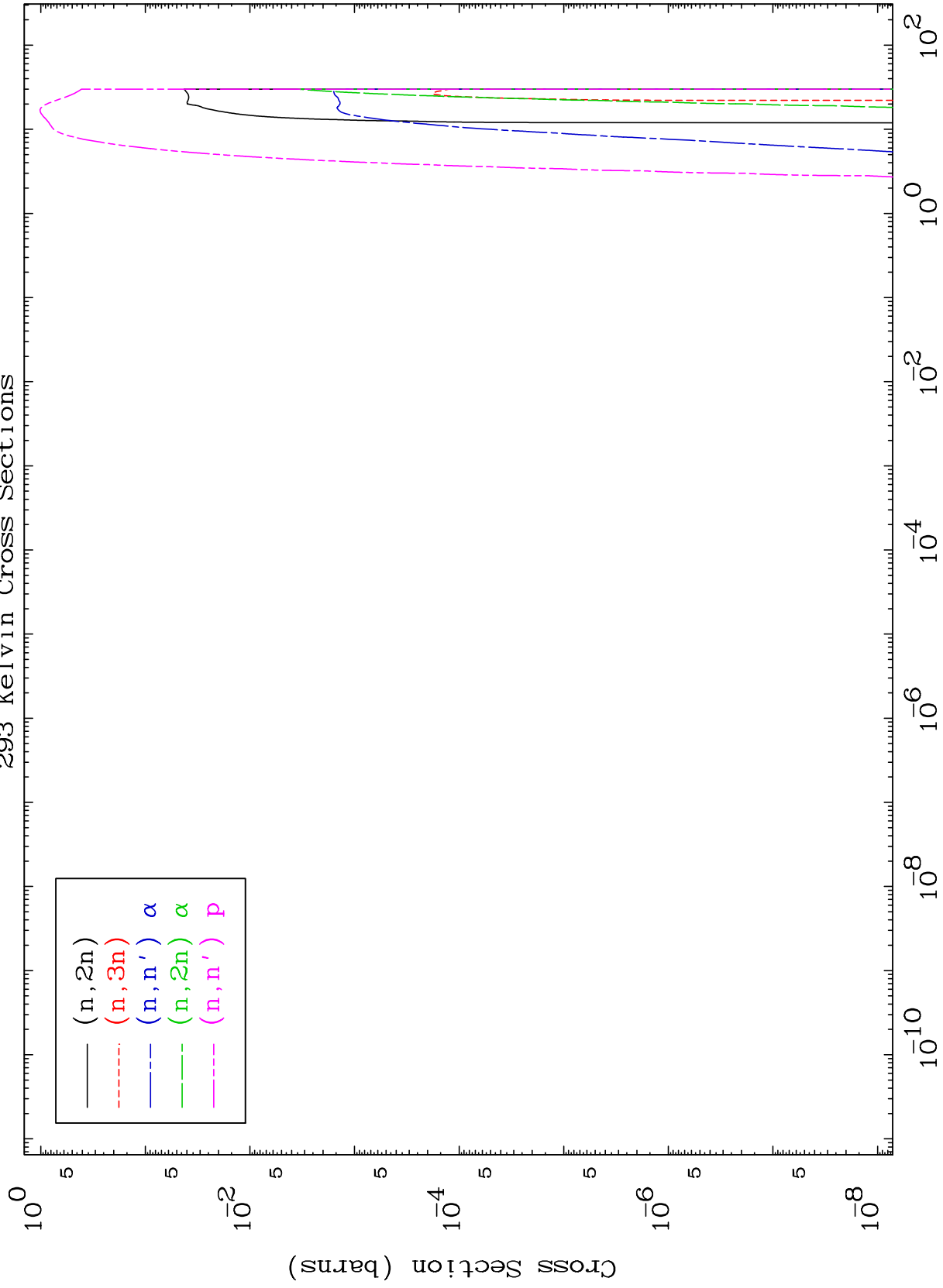
61-Pm-133



MAT 6107

Neutron Production
293 Kelvin Cross Sections

61-Pm-133



2

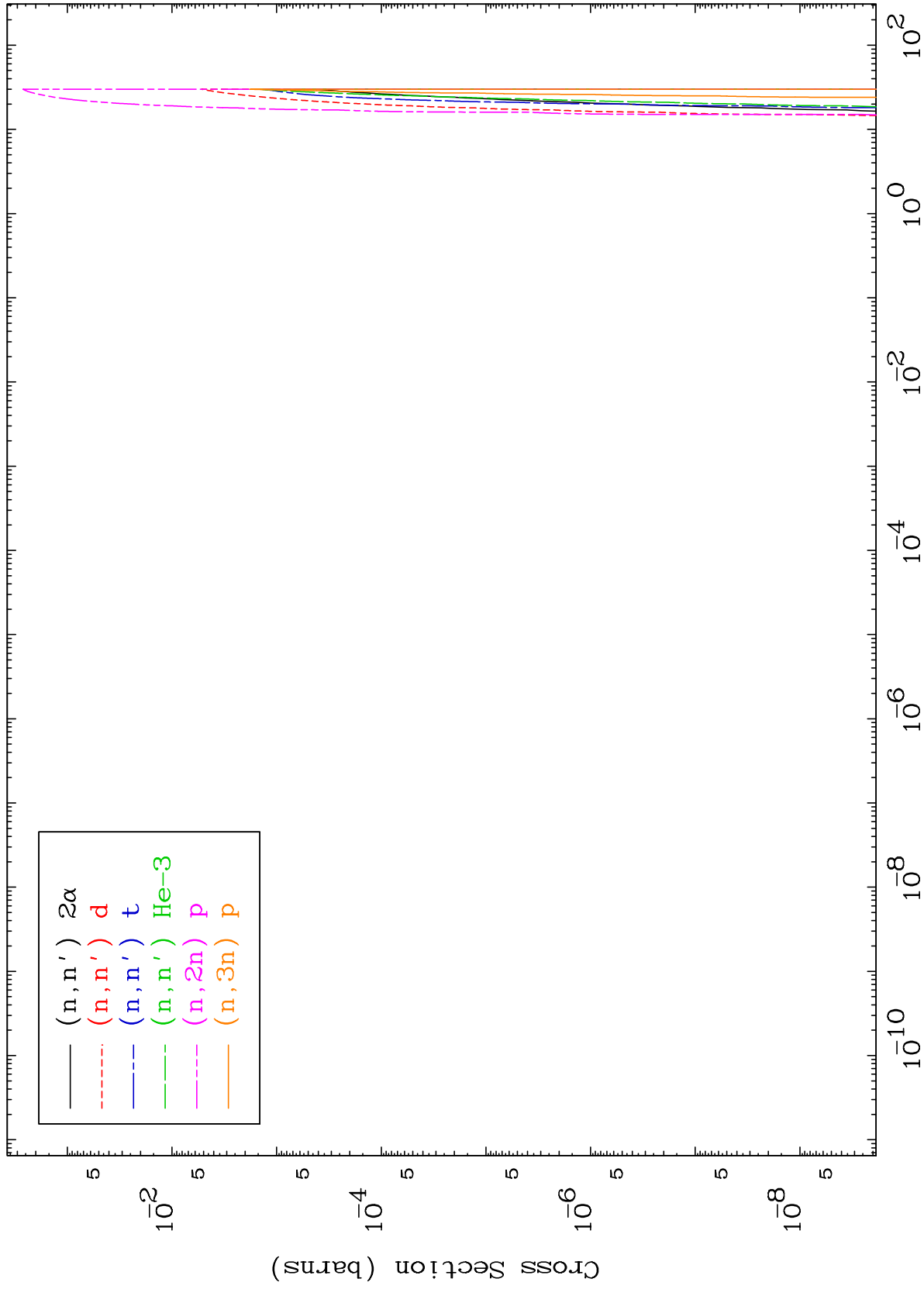
Incident Energy (MeV)

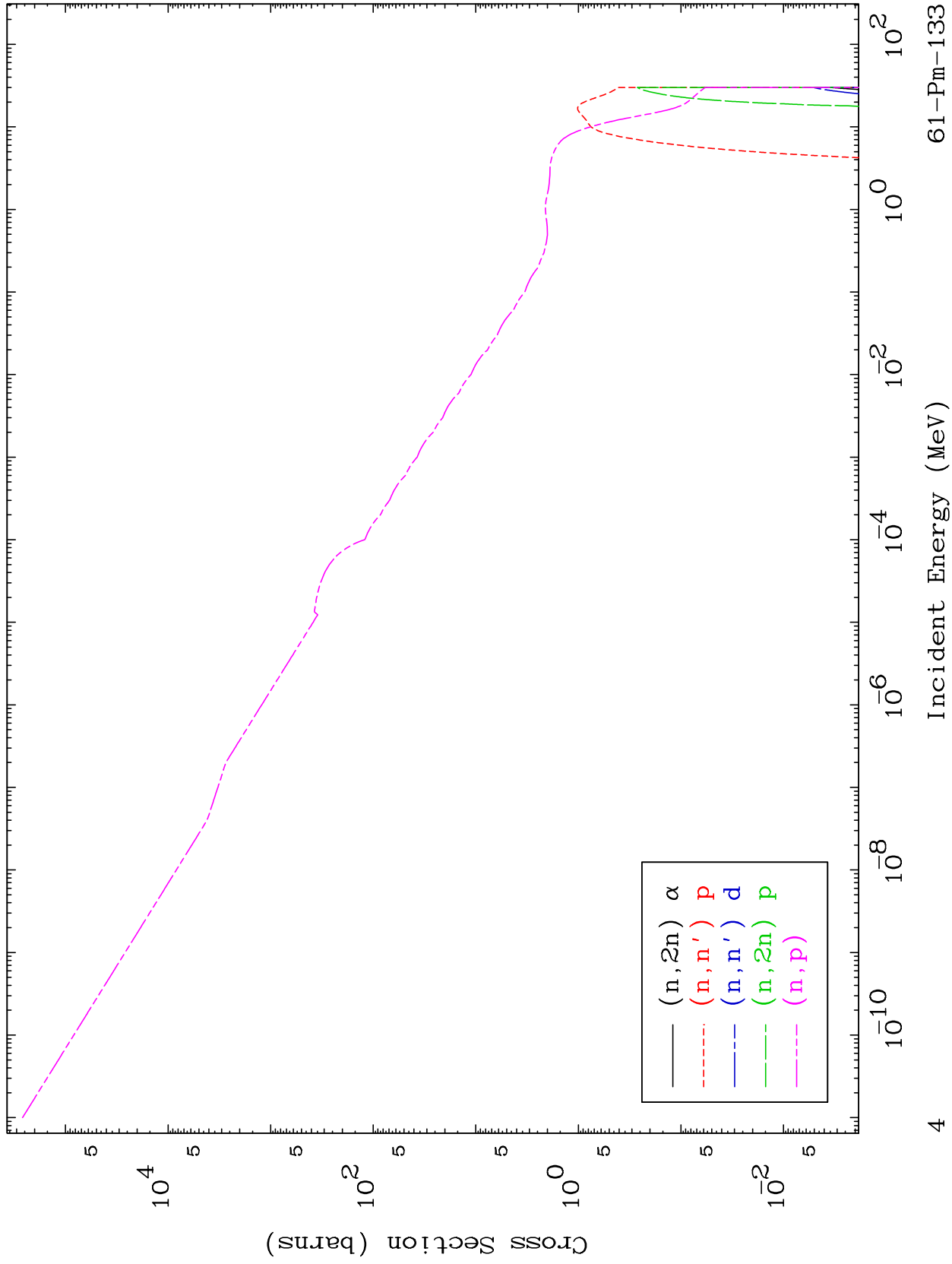
61-Pm-133

MAT 6107

Neutron Production
293 Kelvin Cross Sections

61-Pm-133

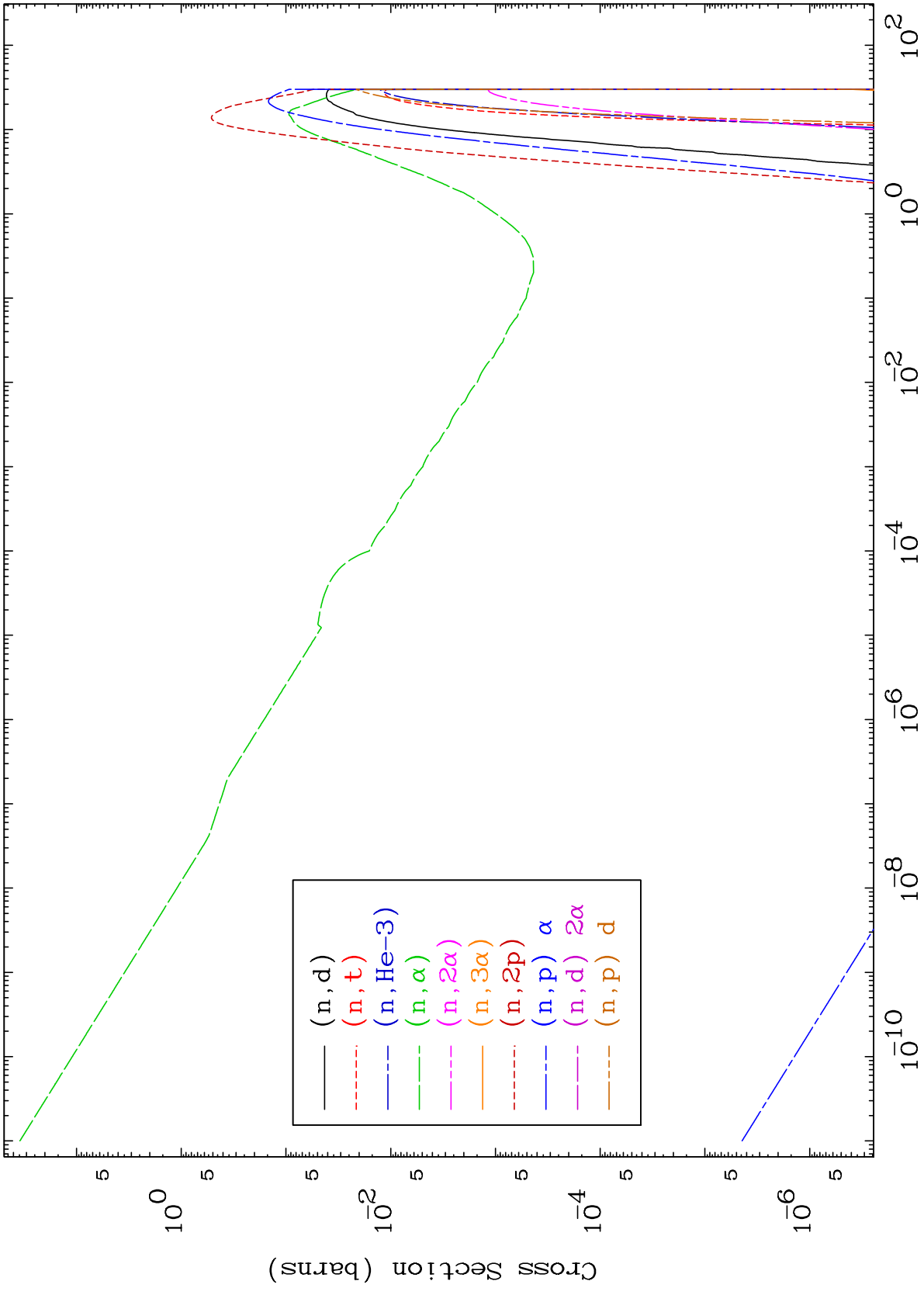


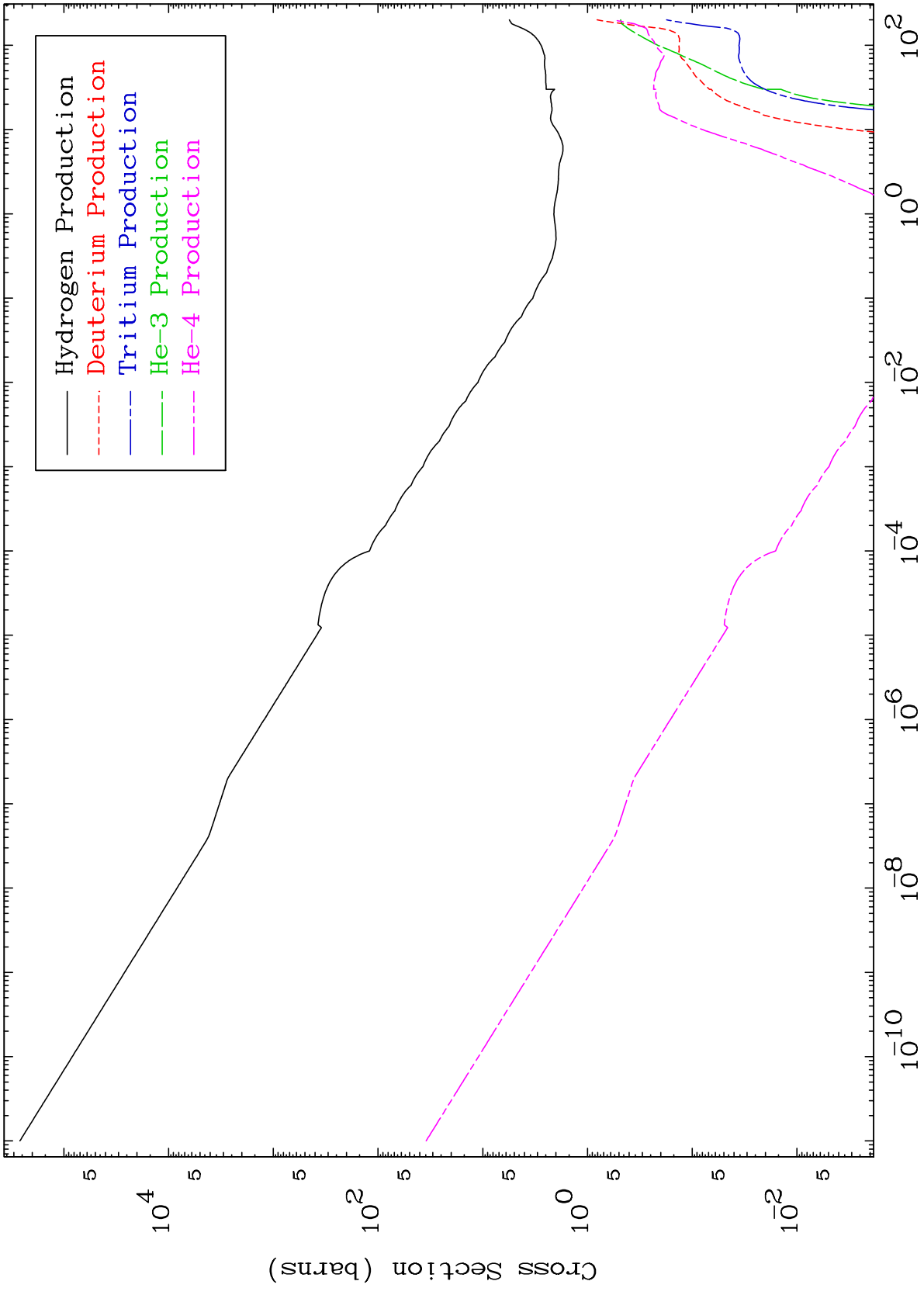


MAT 6107

Charged Particle
293 Kelvin Cross Sections

61-Pm-133



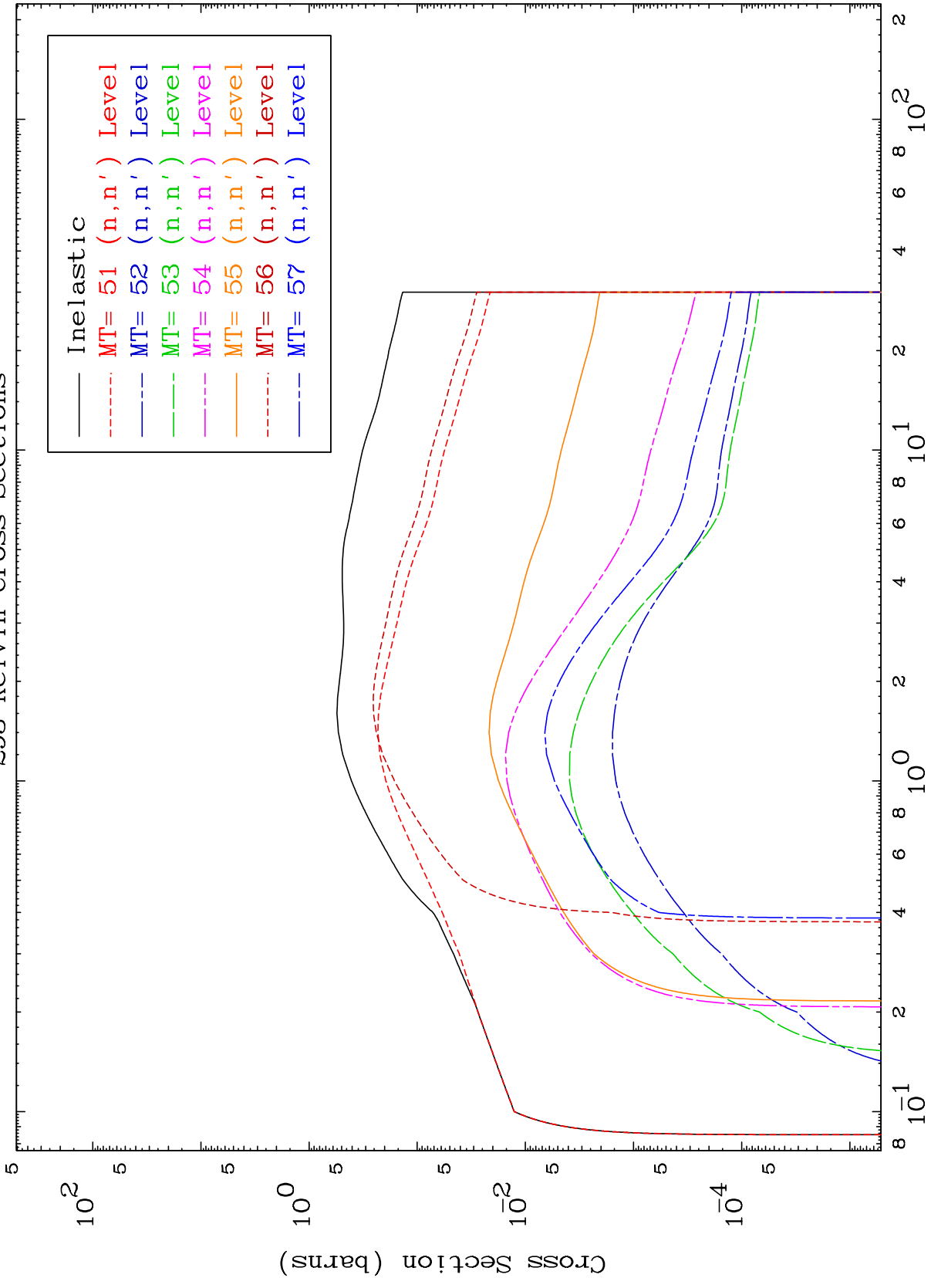


MAT 6107

(n,n') Level

61-Pm-133

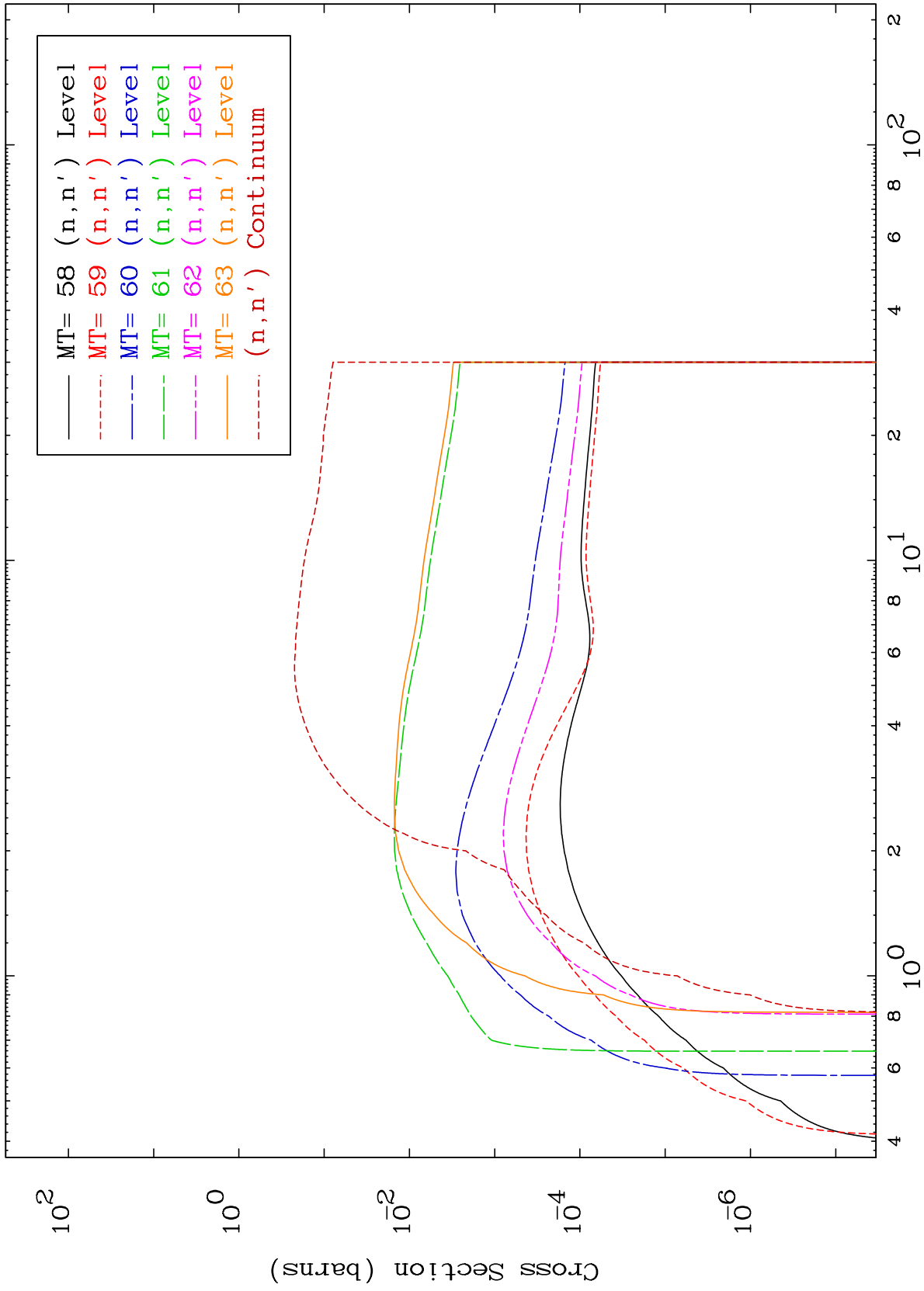
293 Kelvin Cross Sections



7

Incident Energy (MeV)

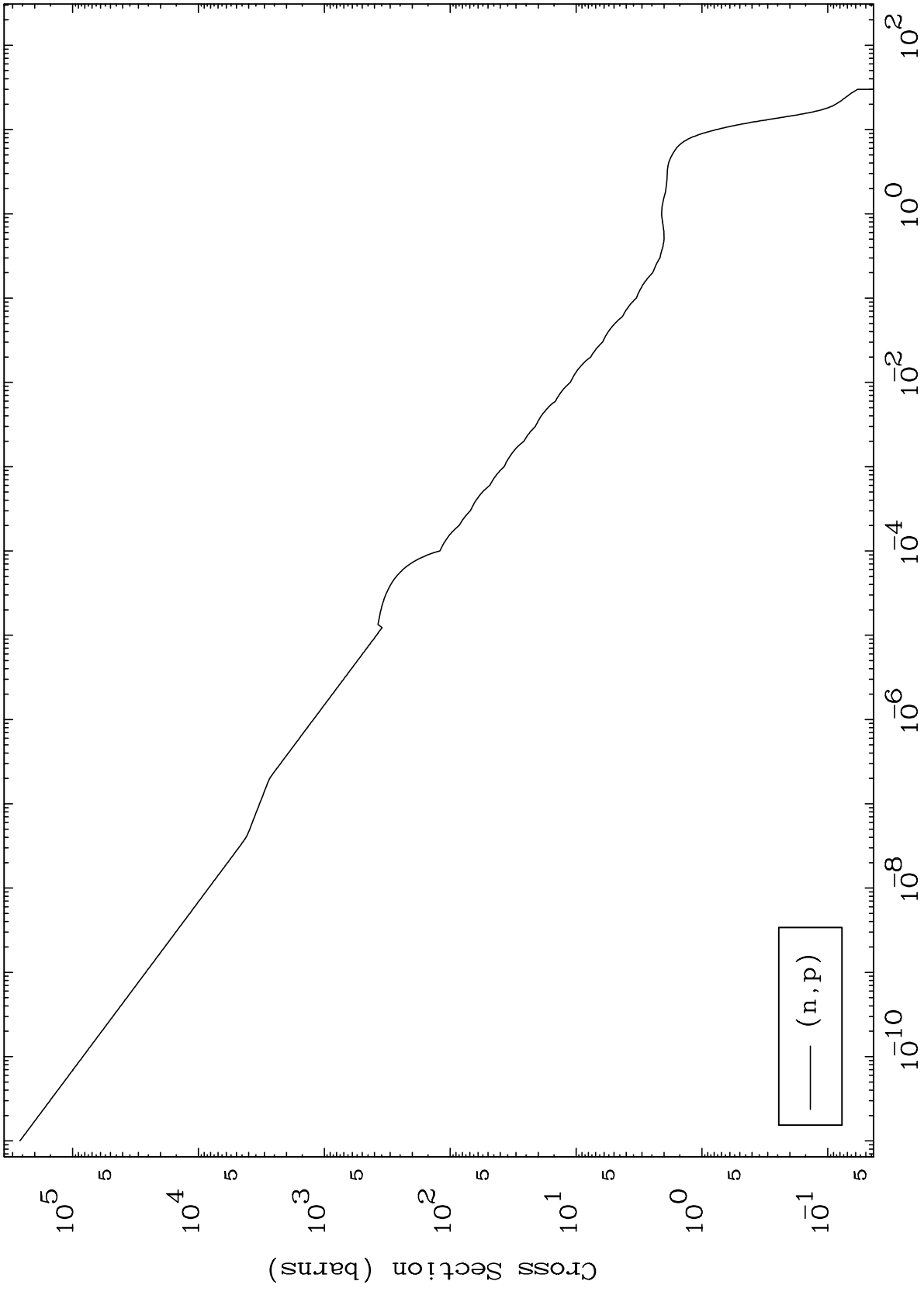
61-Pm-133



MAT 6107

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-133



— (n, p)

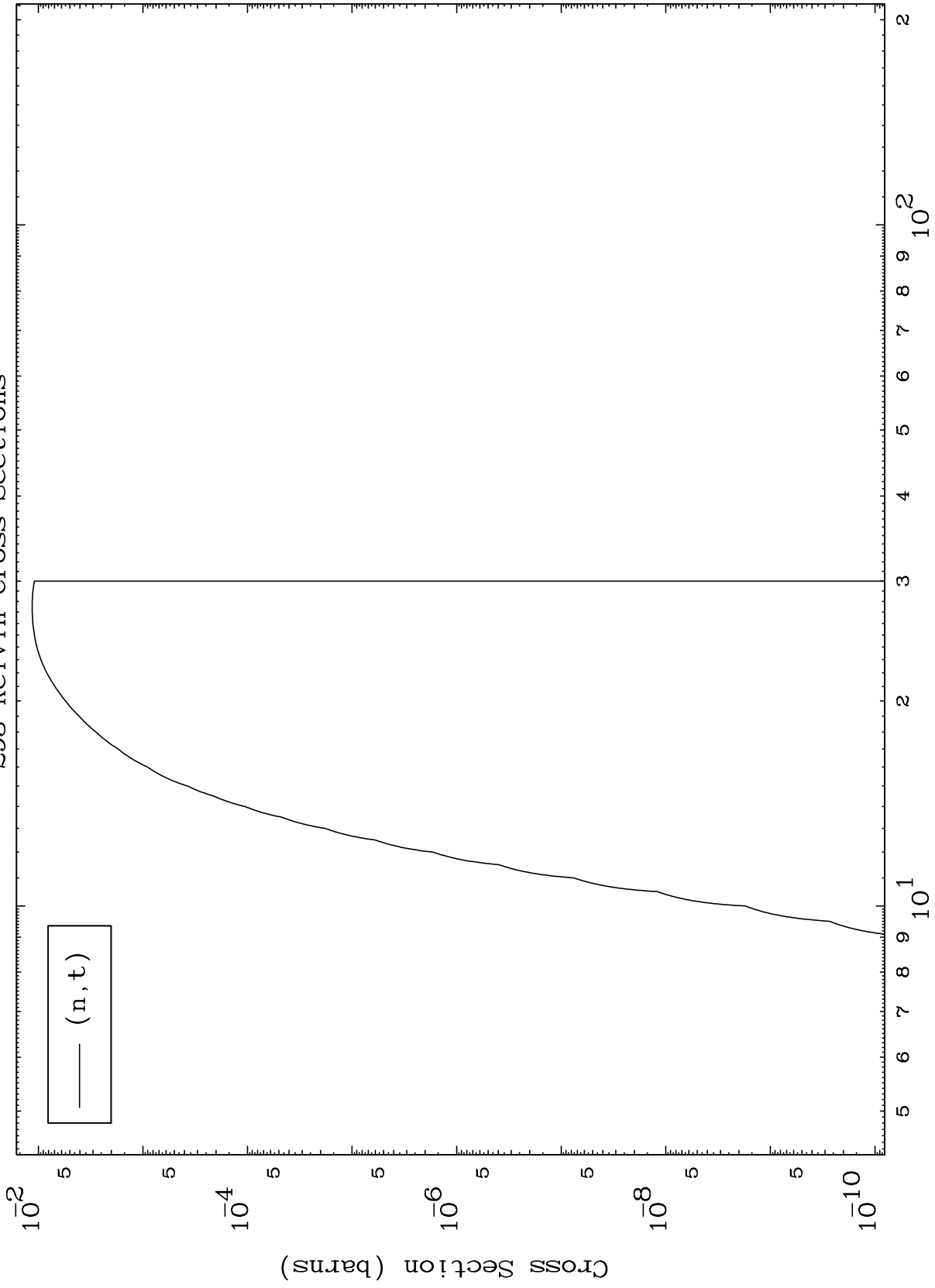
61-Pm-133

Incident Energy (MeV)

MAT 6107

61-Pm-133

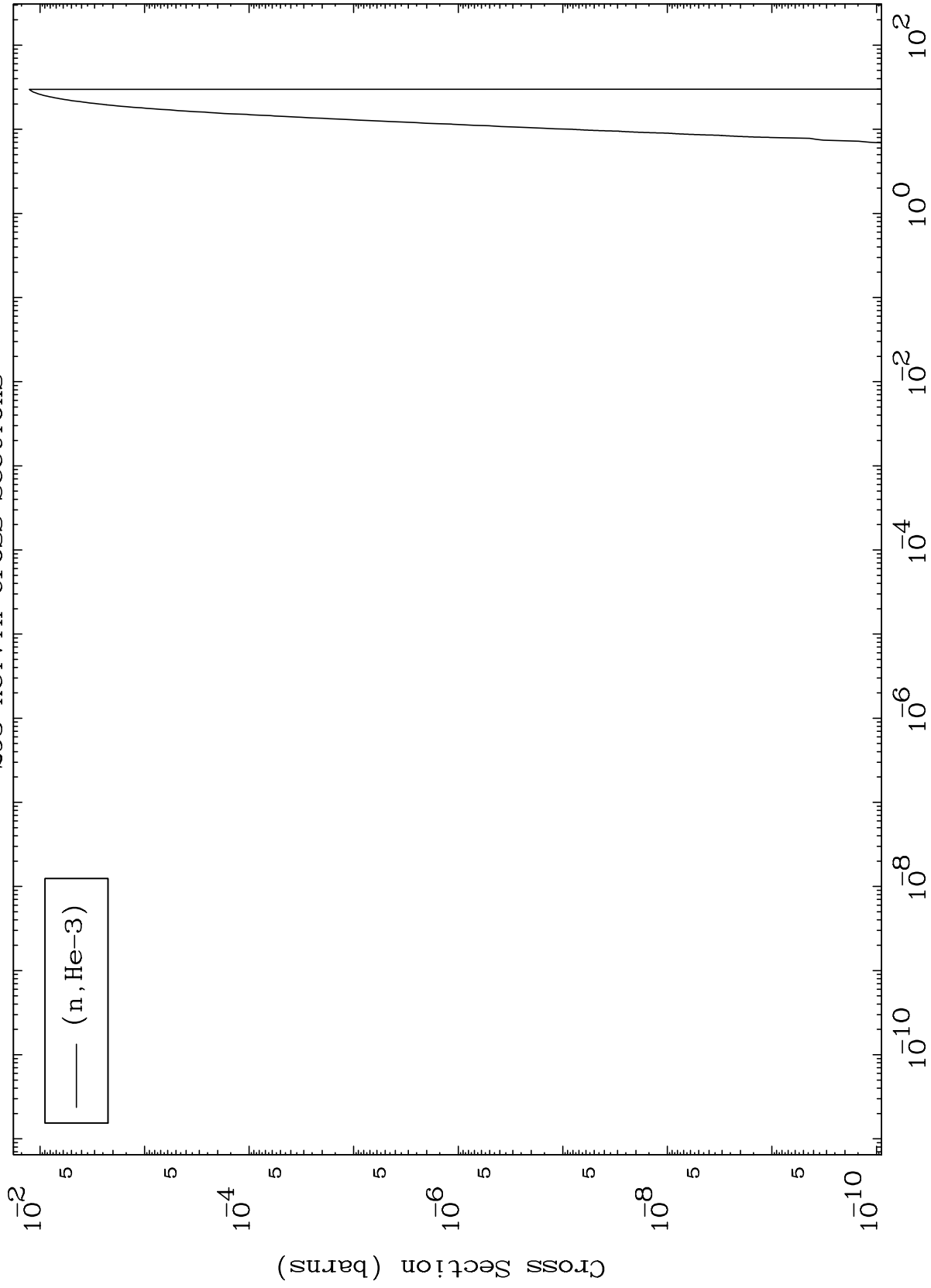
(n,t) Levels
293 Kelvin Cross Sections



MAT 6107

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-133



12

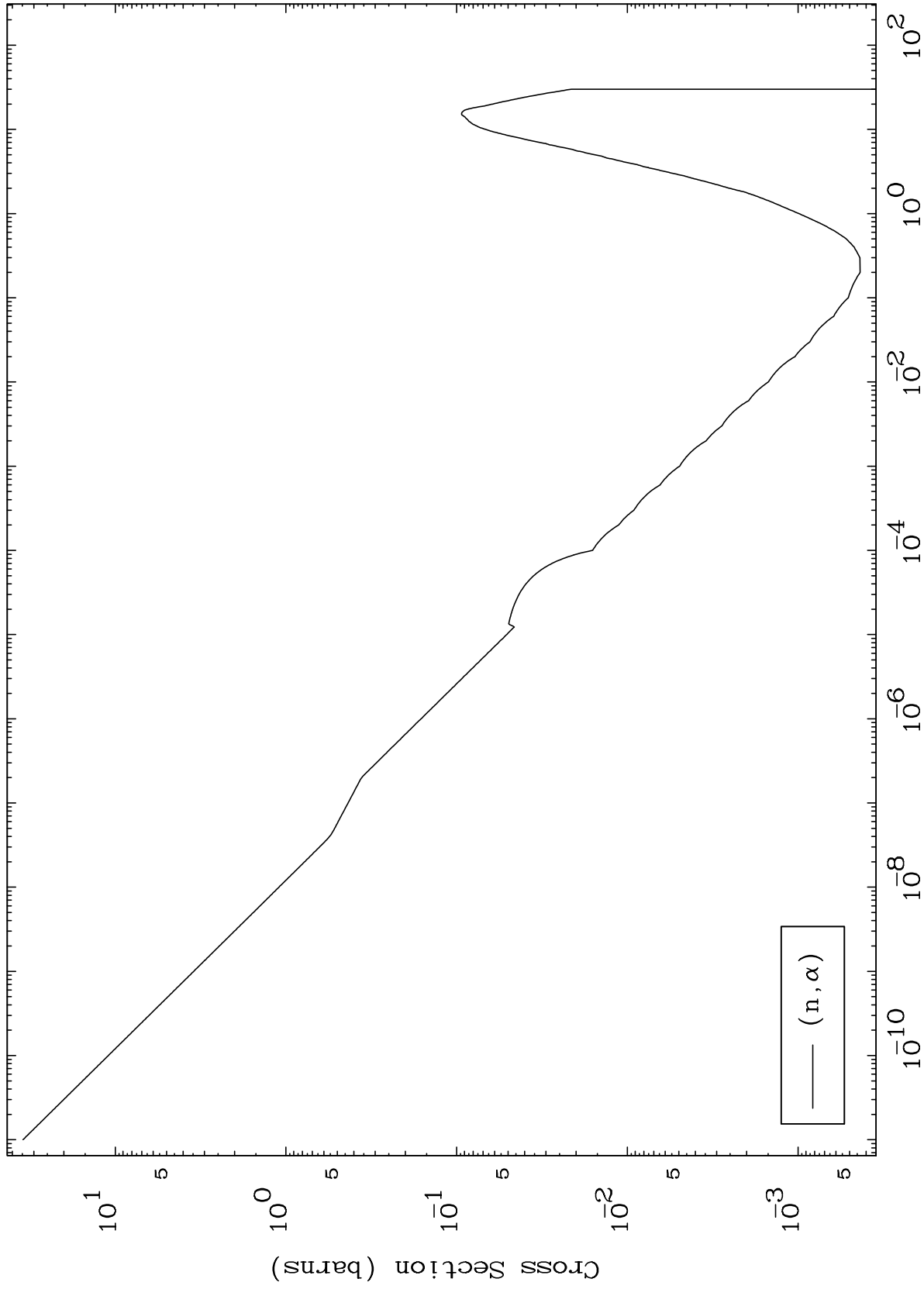
Incident Energy (MeV)

61-Pm-133

MAT 6107

(n,α) Levels
293 Kelvin Cross Sections

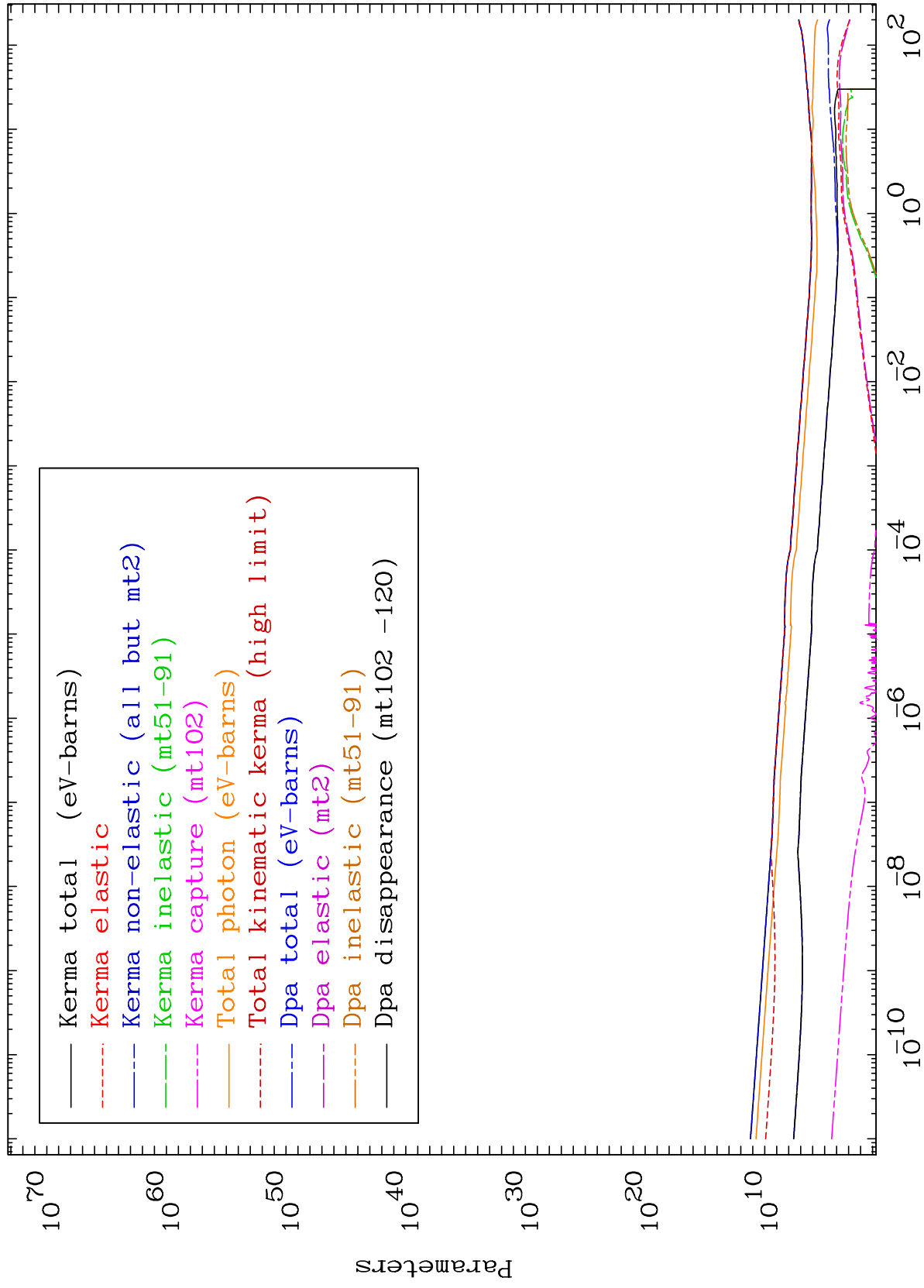
61-Pm-133



13

Incident Energy (MeV)

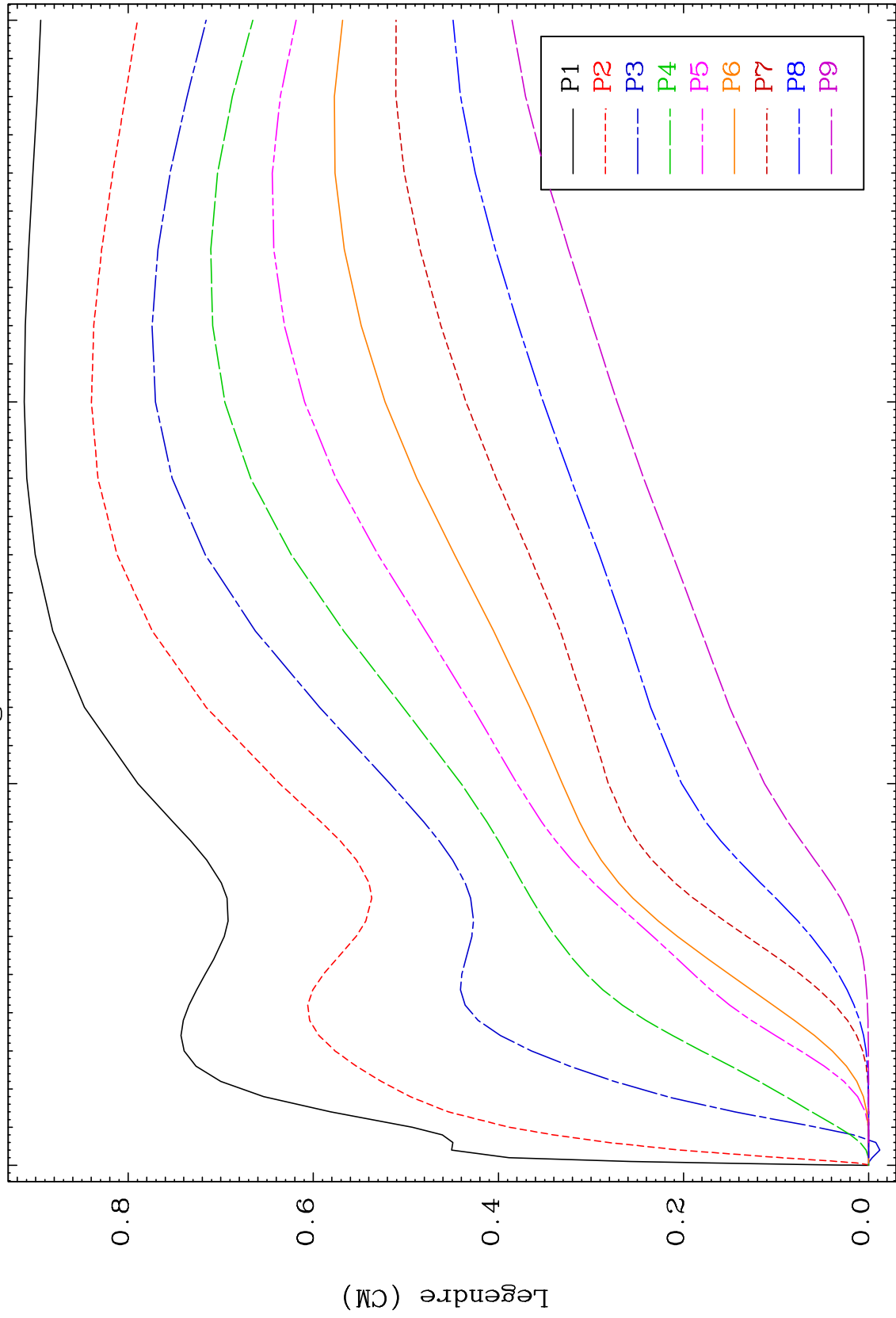
61-Pm-133



MAT 6107

Elastic Legendre Coefficients

61-Pm-133



15

Incident Energy (MeV)

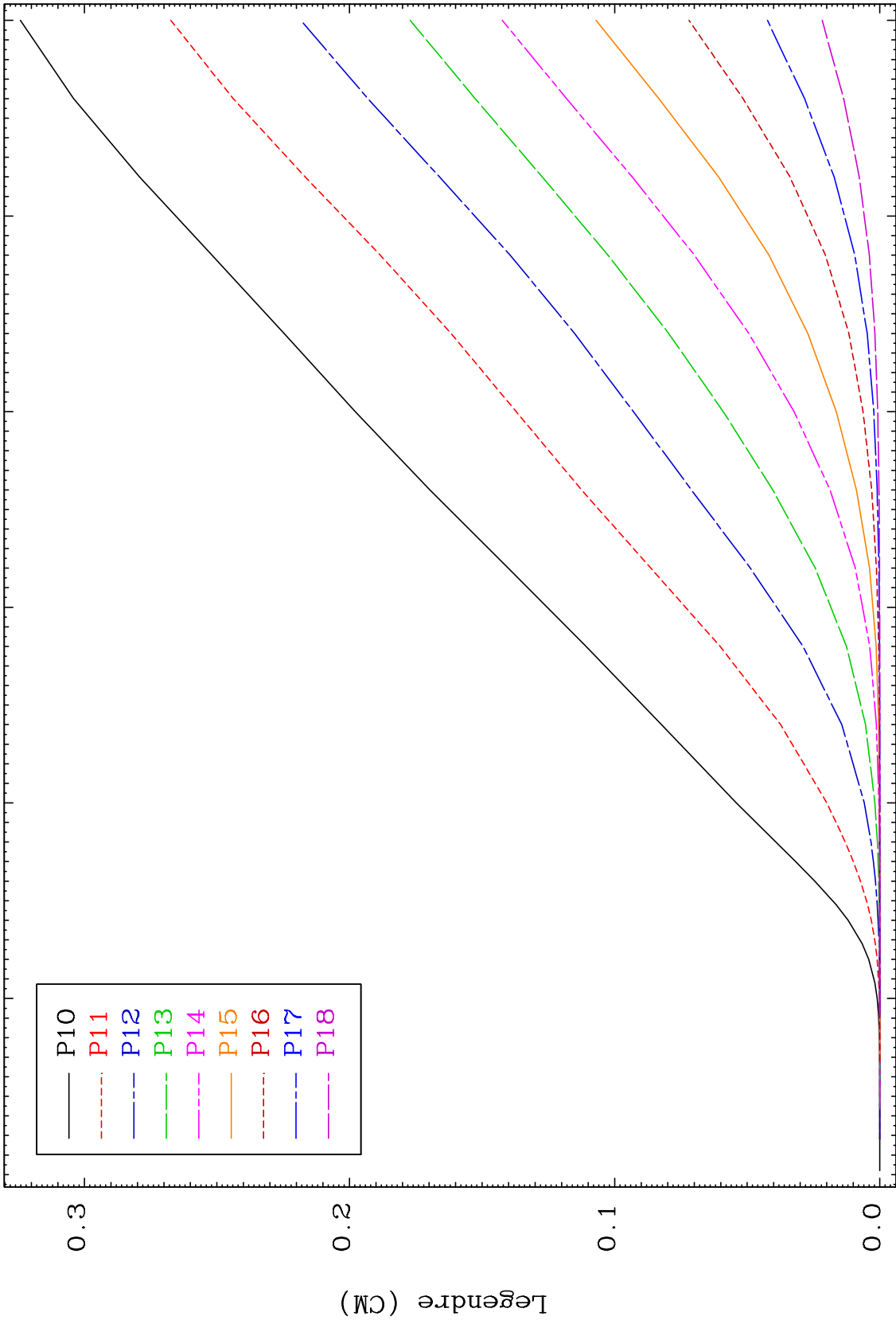
61-Pm-133

30

MAT 6107

Elastic Legendre Coefficients

61-Pm-133



16

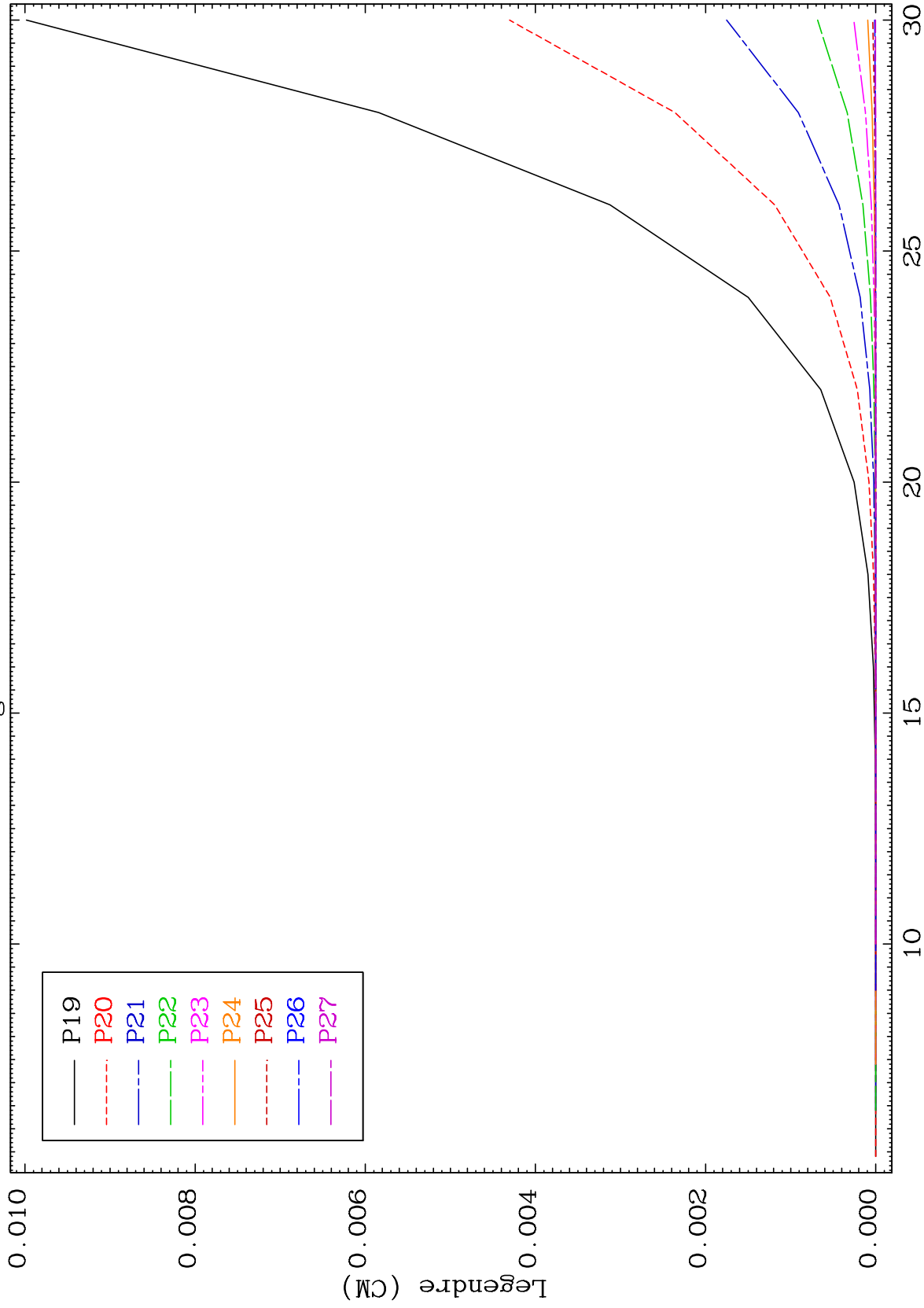
Incident Energy (MeV)

61-Pm-133

MAT 6107

Elastic Legendre Coefficients

61-Pm-133



17

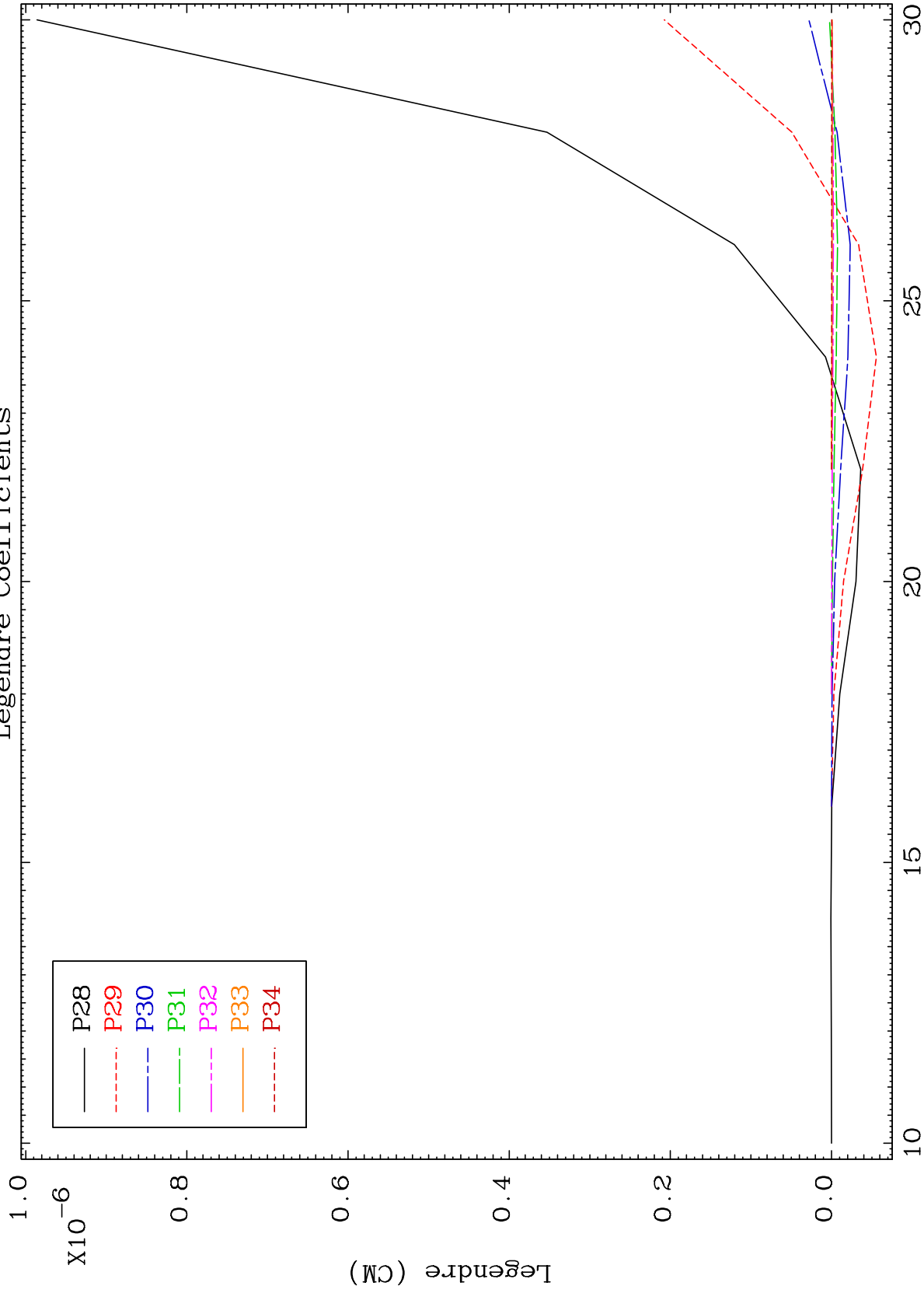
Incident Energy (MeV)

61-Pm-133

MAT 6107

Elastic Legendre Coefficients

61-Pm-133



18

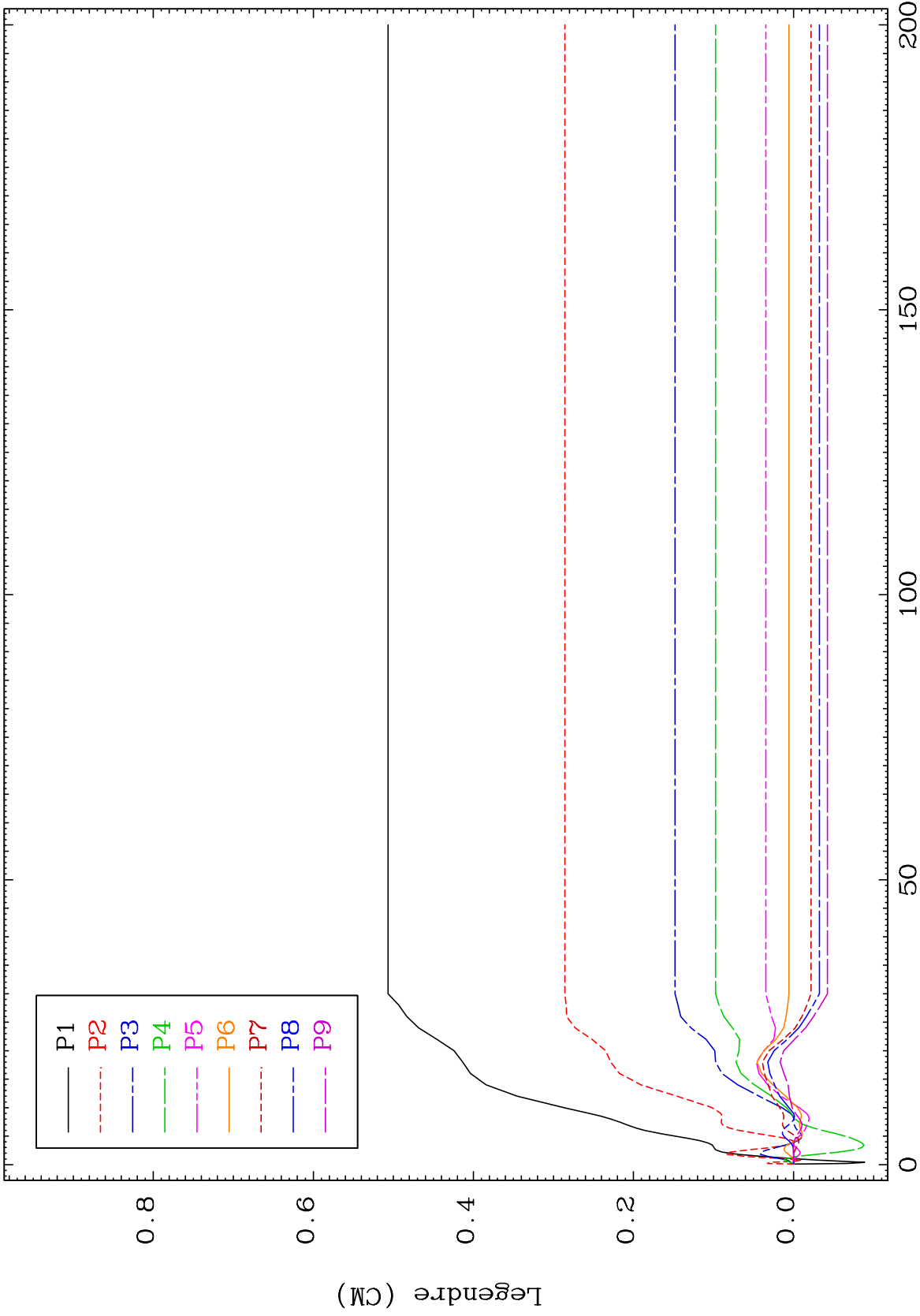
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



19

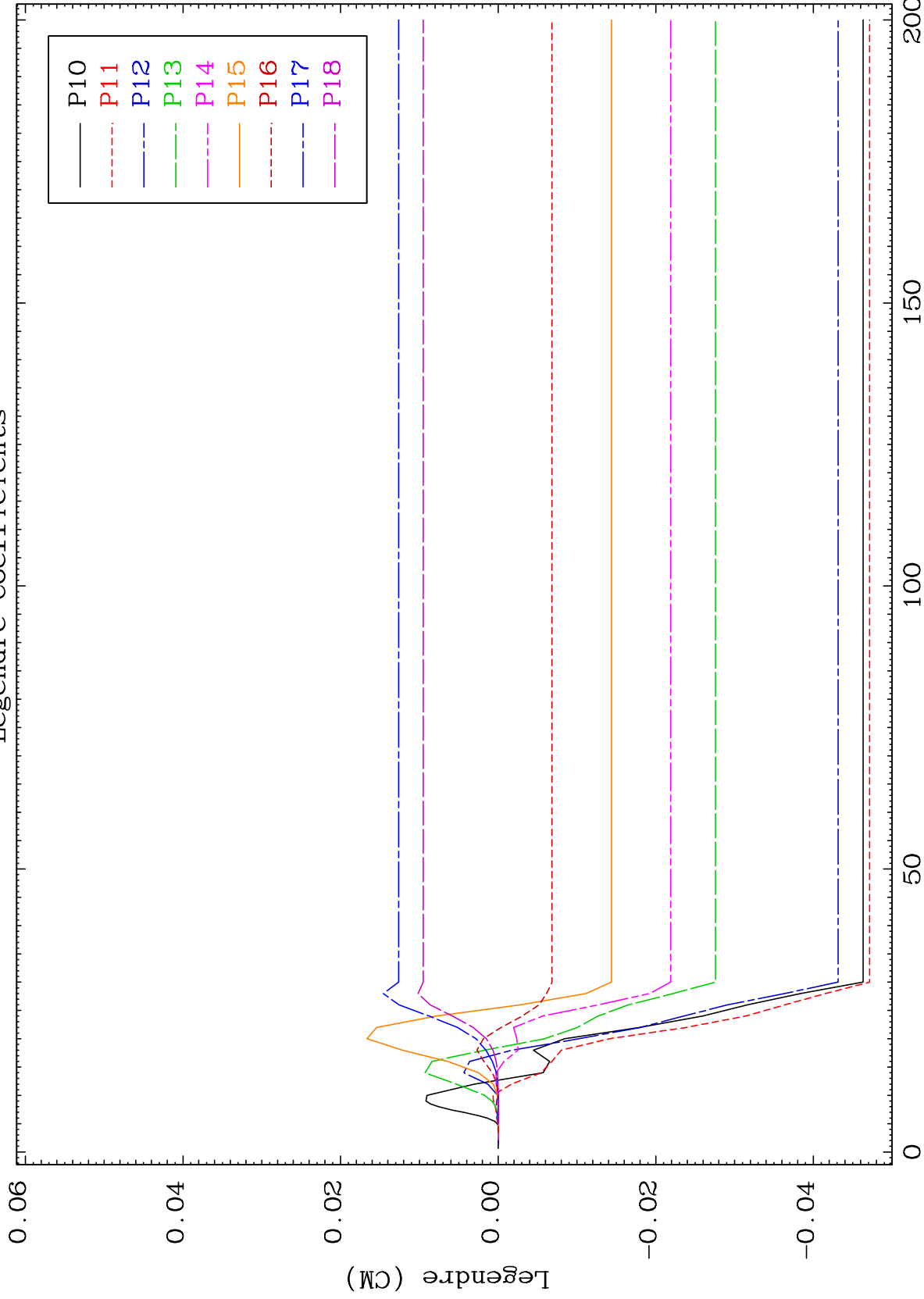
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

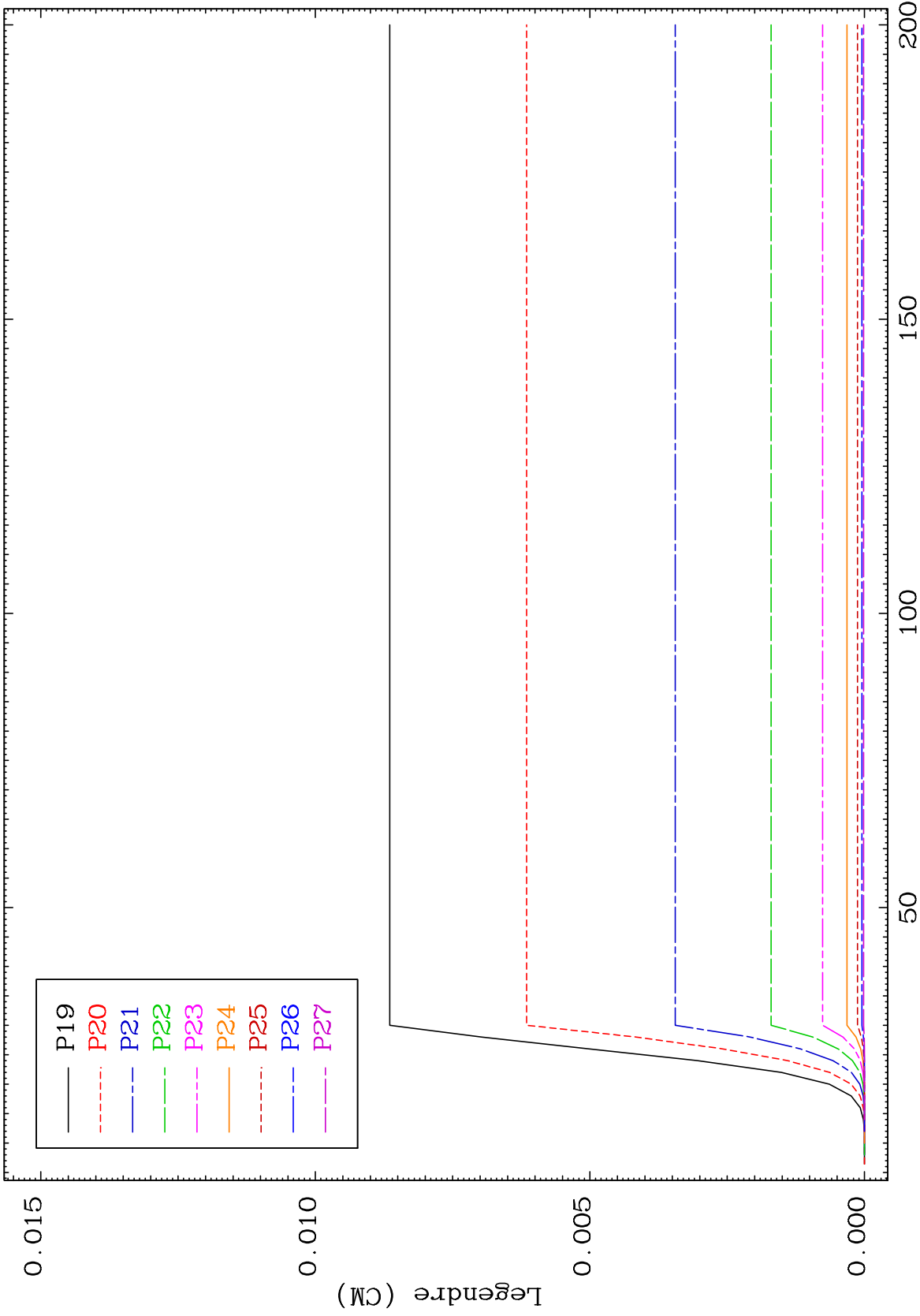
61-Pm-133



61-Pm-133

Incident Energy (MeV)

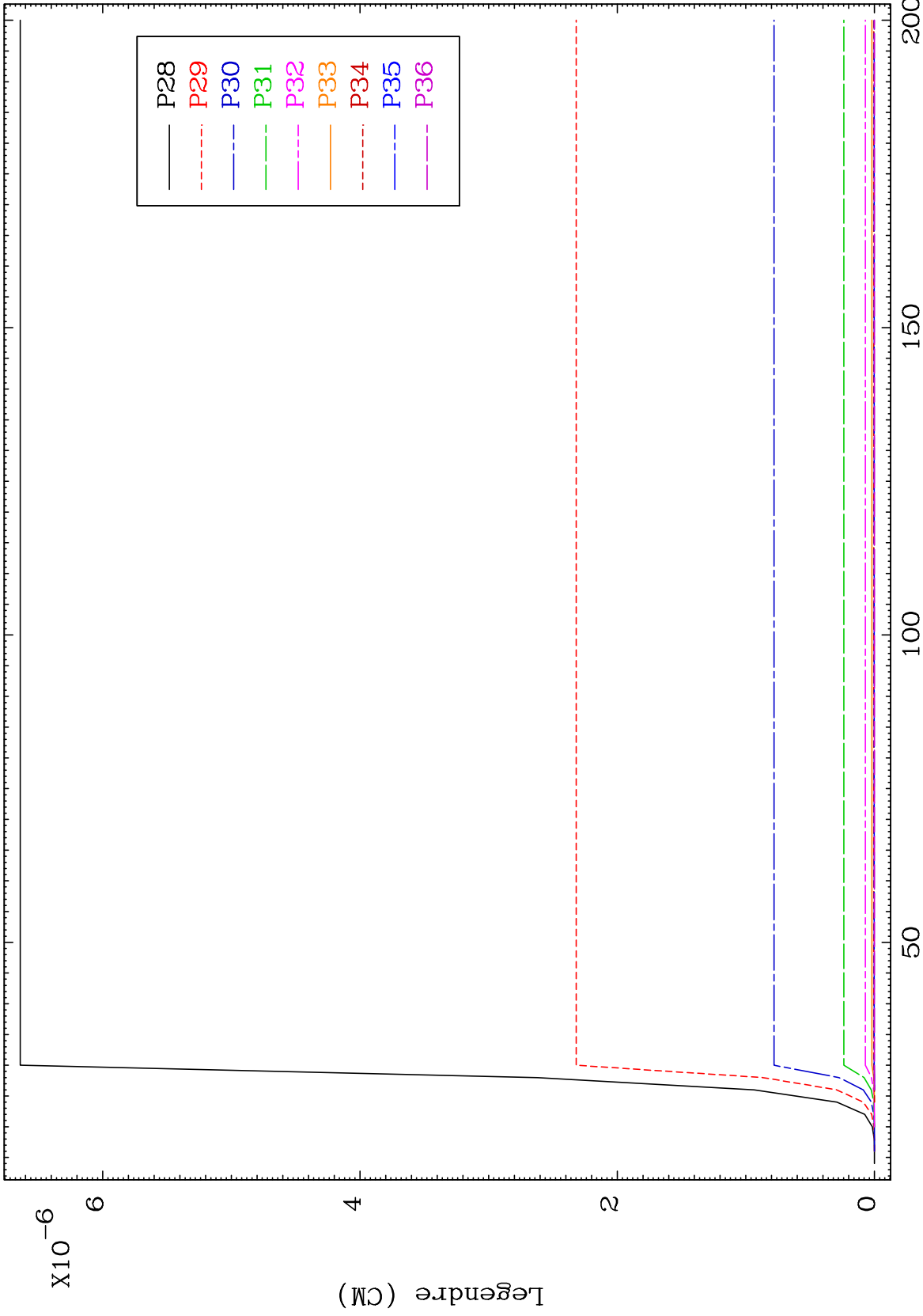
20



MAT 6107

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

61-Pm-133



22

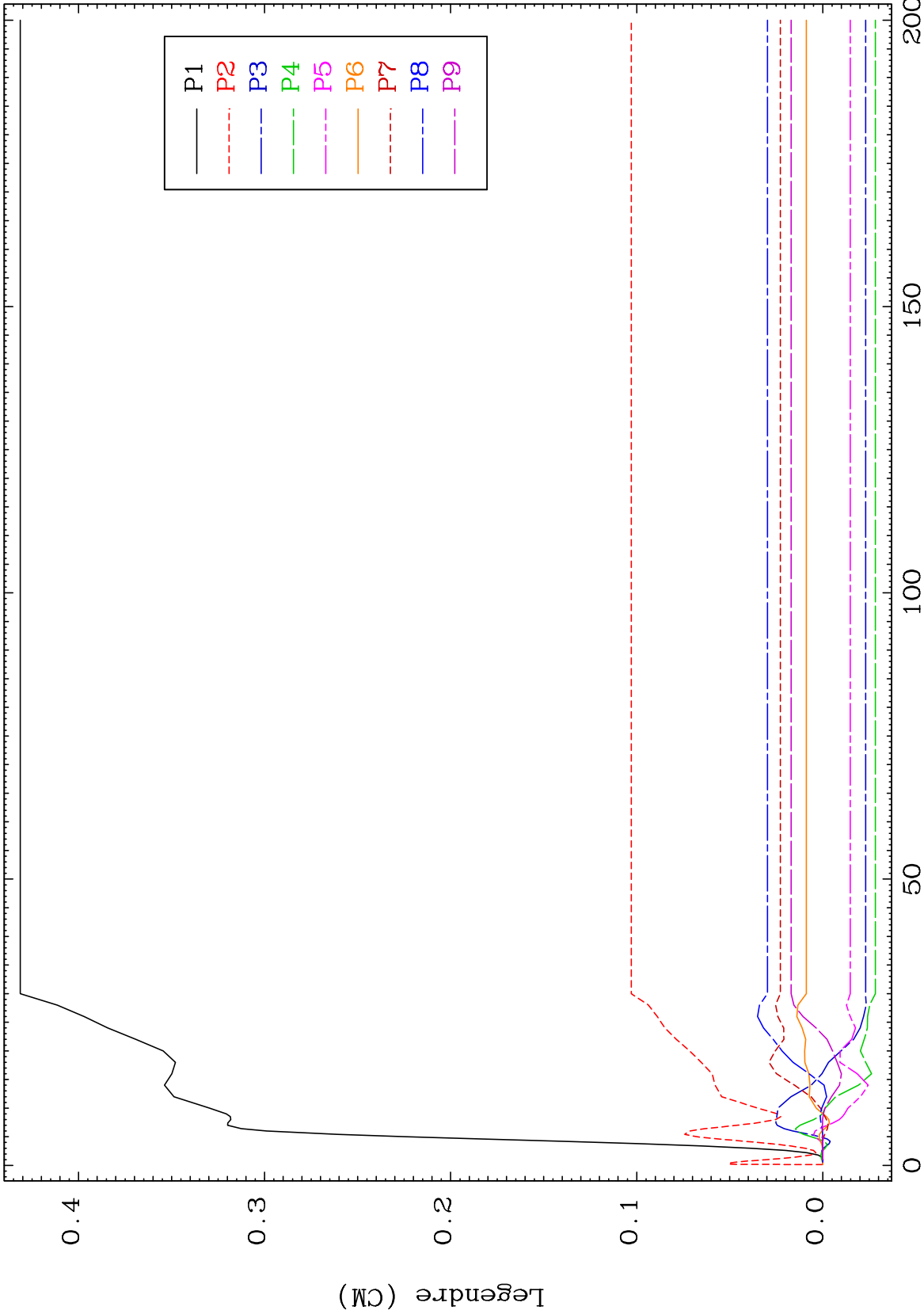
61-Pm-133

61-Pm-133

MAT 6107

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

61-Pm-133



23

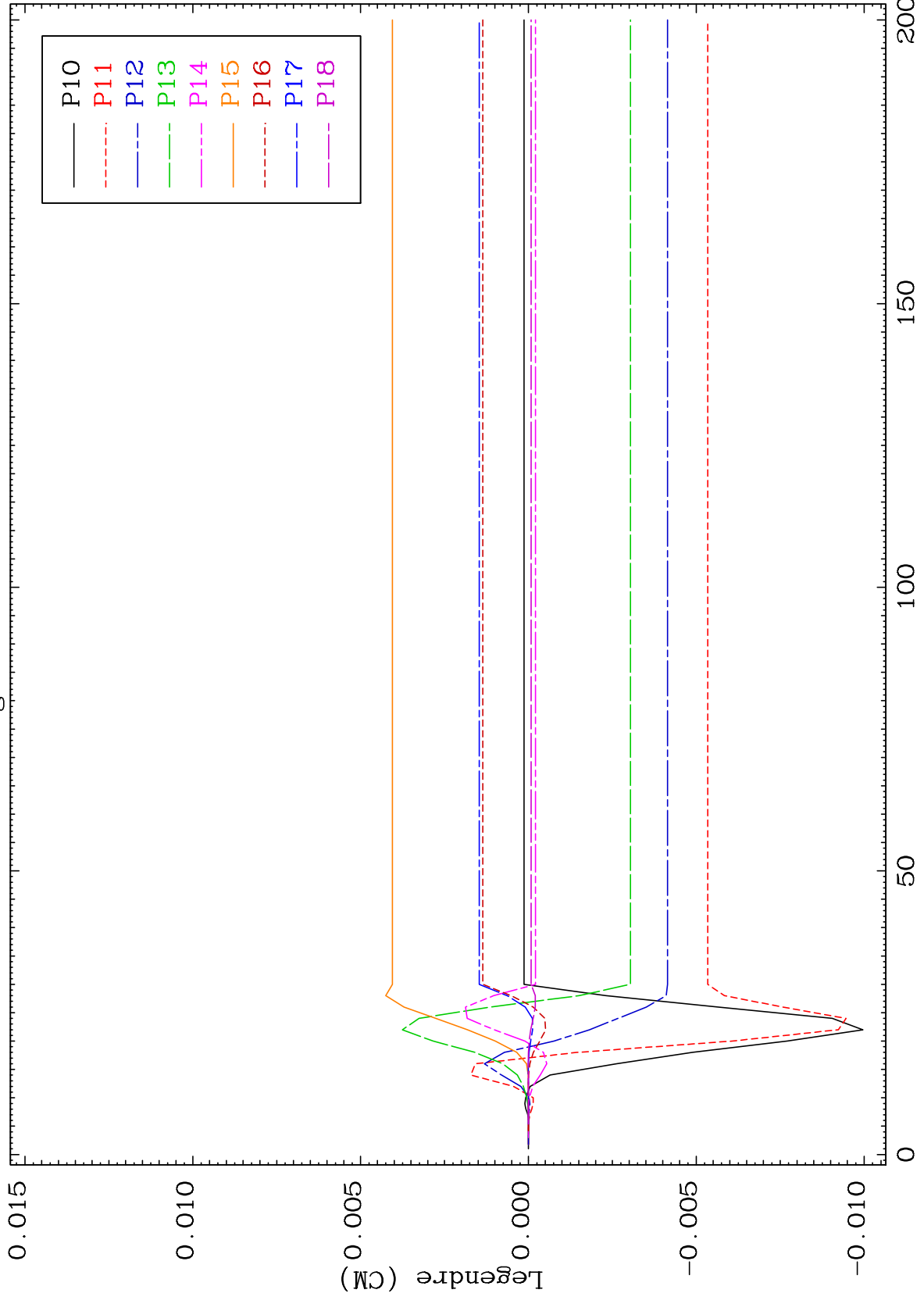
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



24

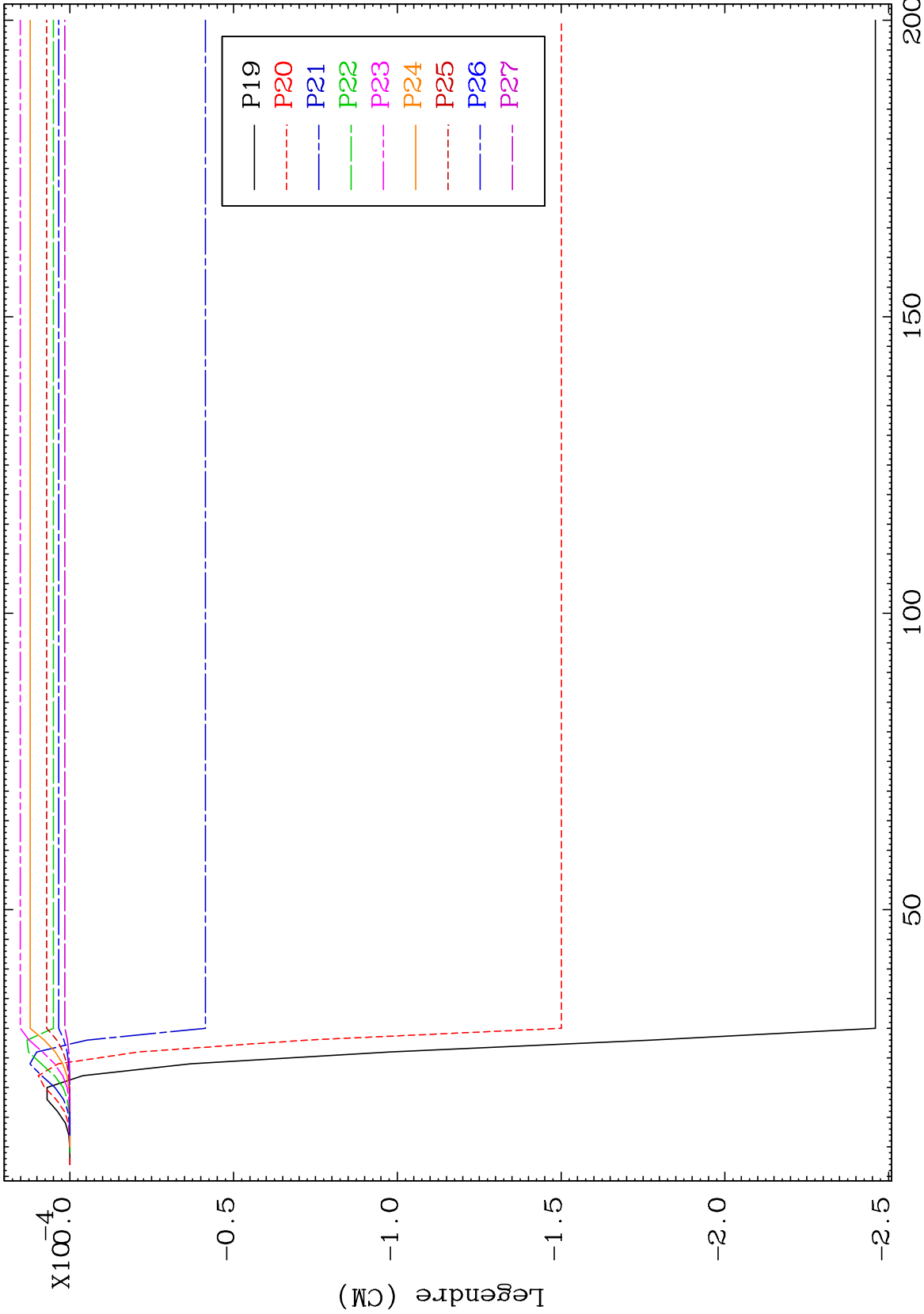
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



25

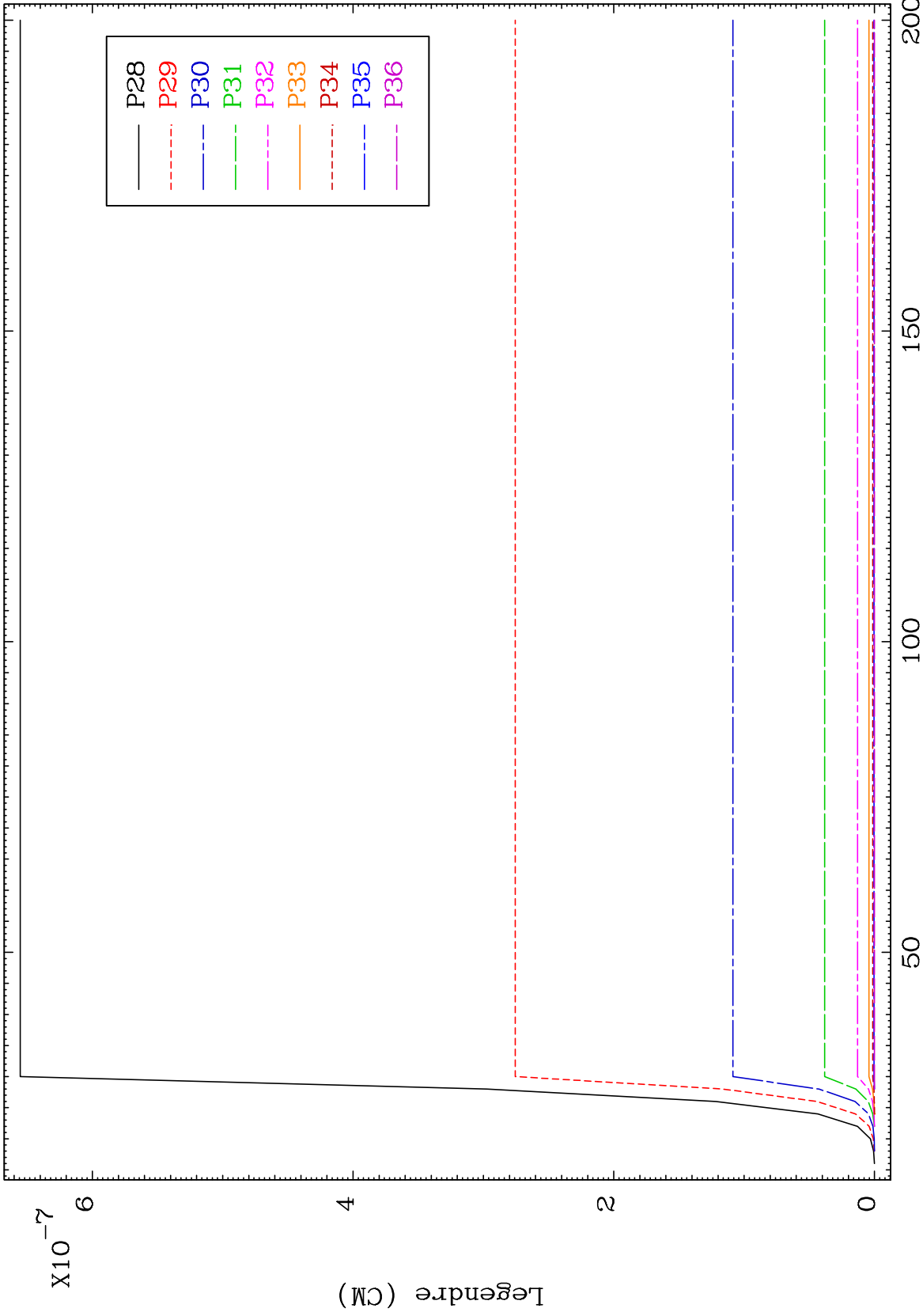
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



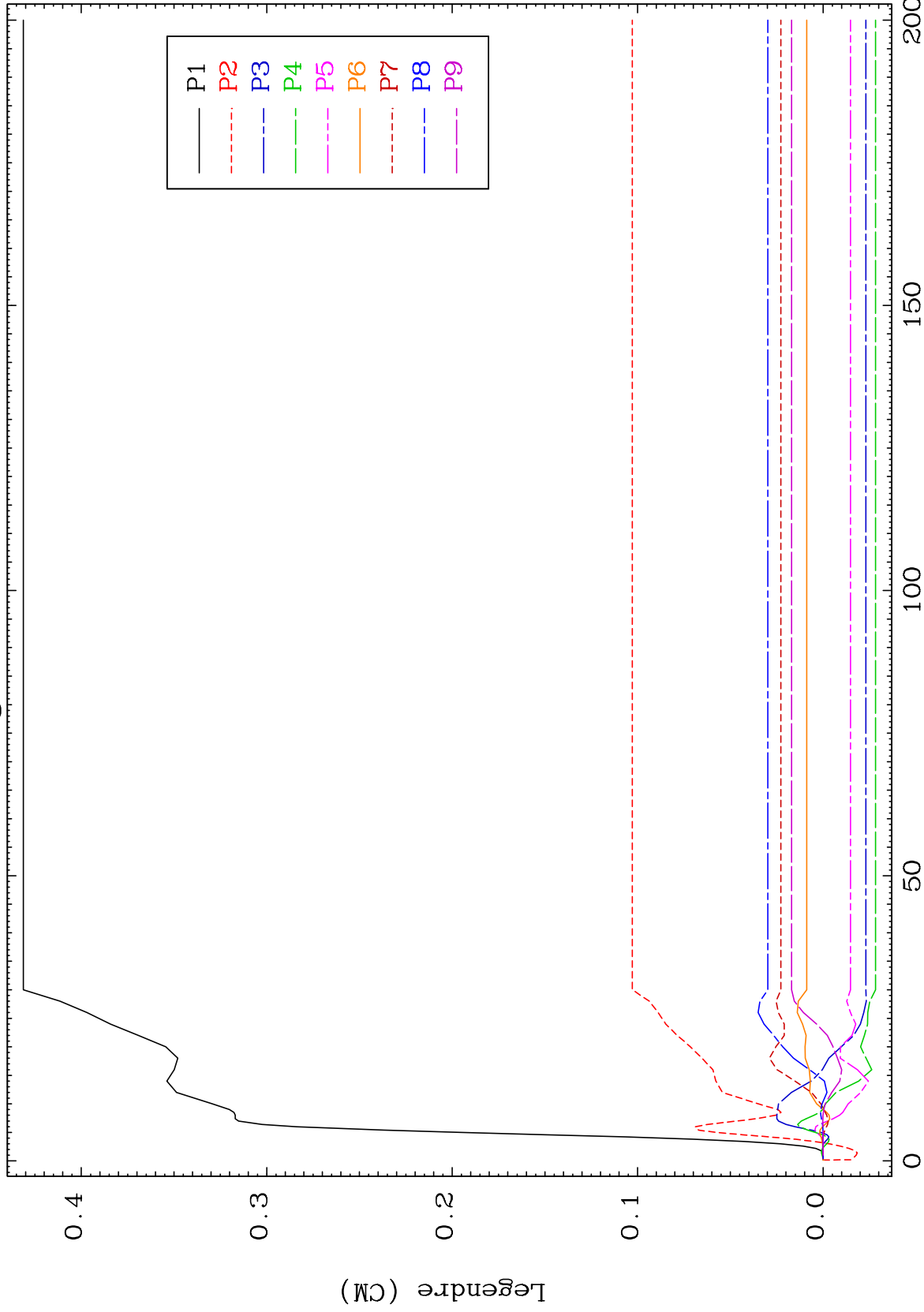
26

61-Pm-133

MAT 6107

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

61-Pm-133



27

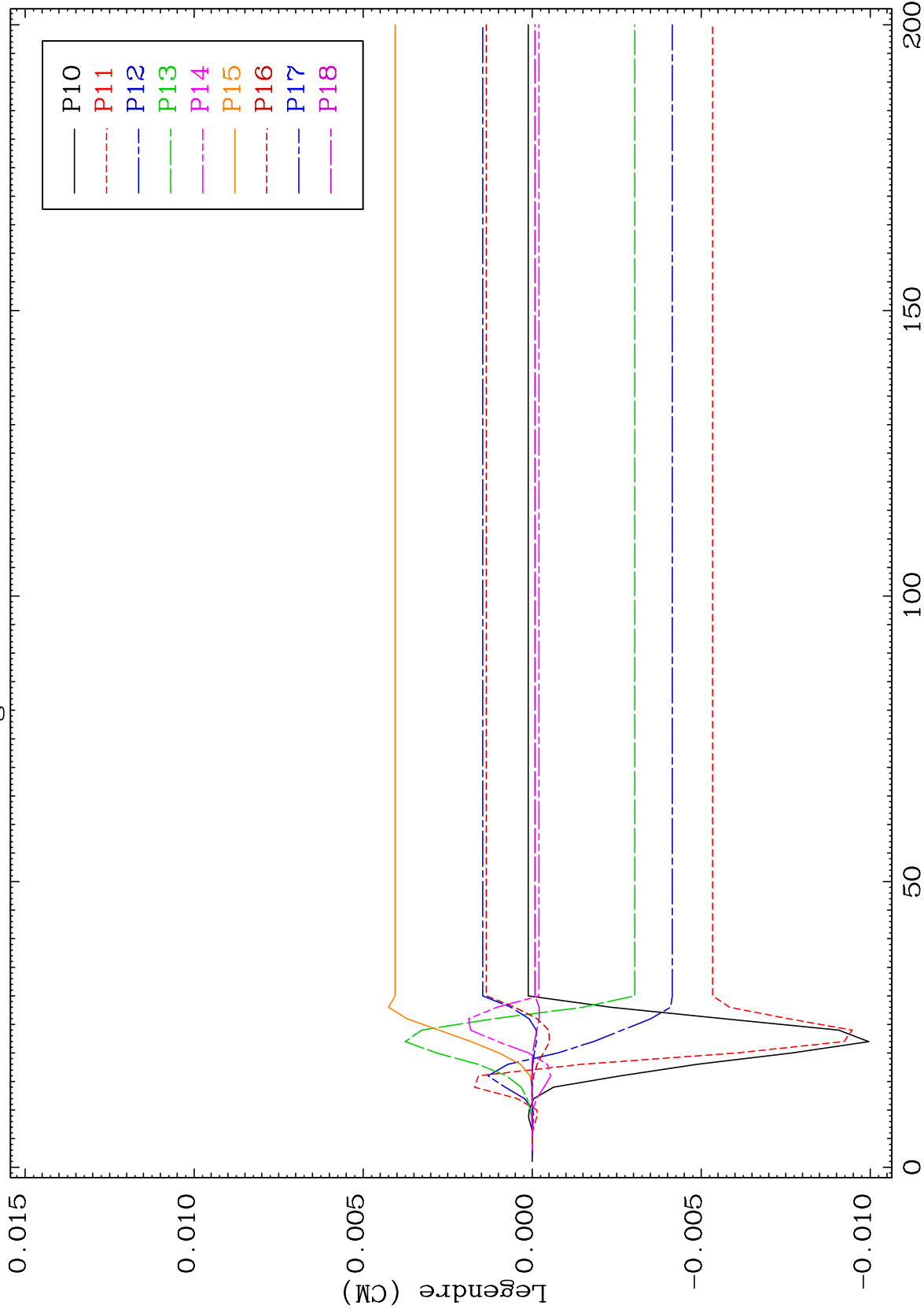
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



28

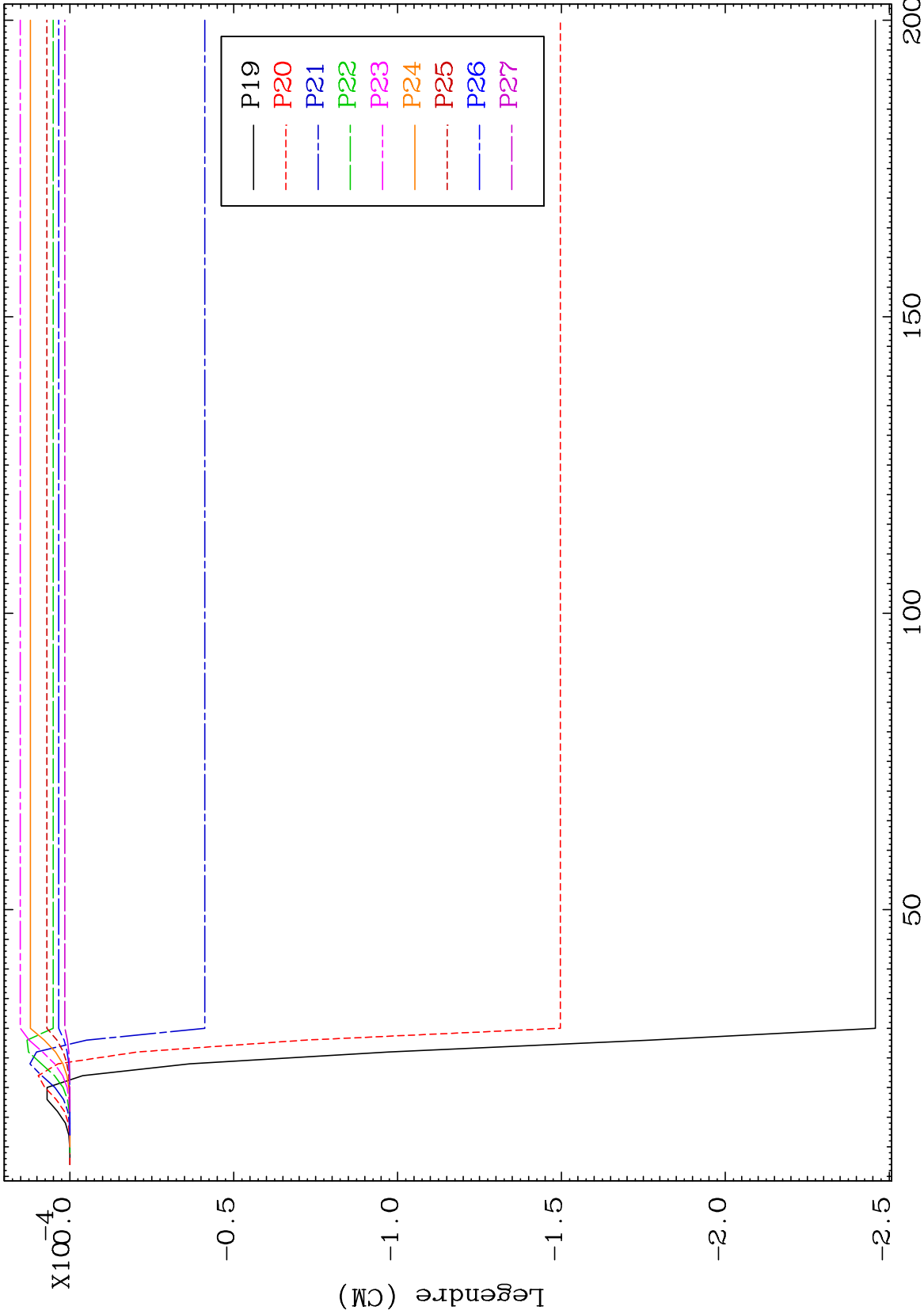
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



29

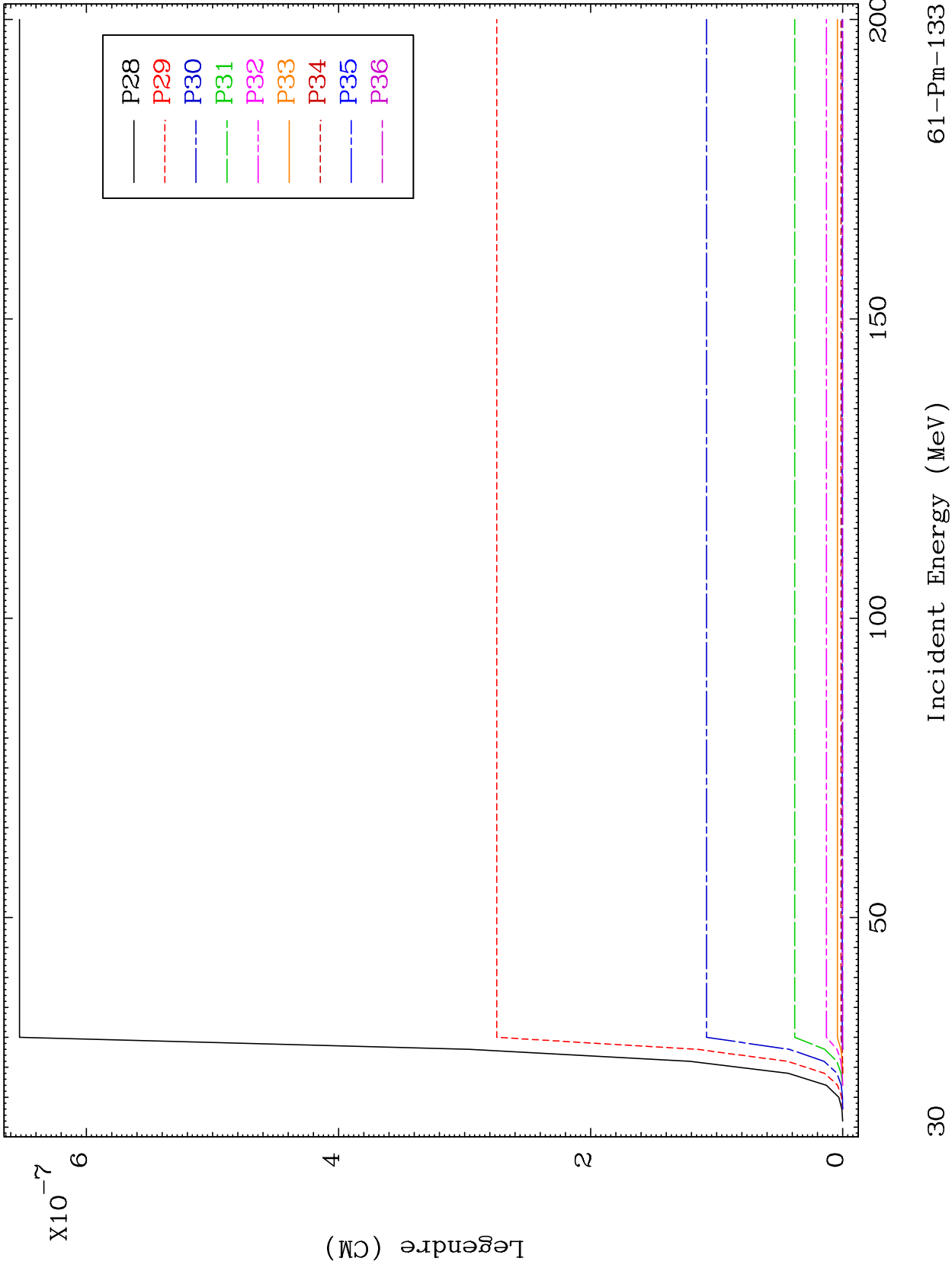
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

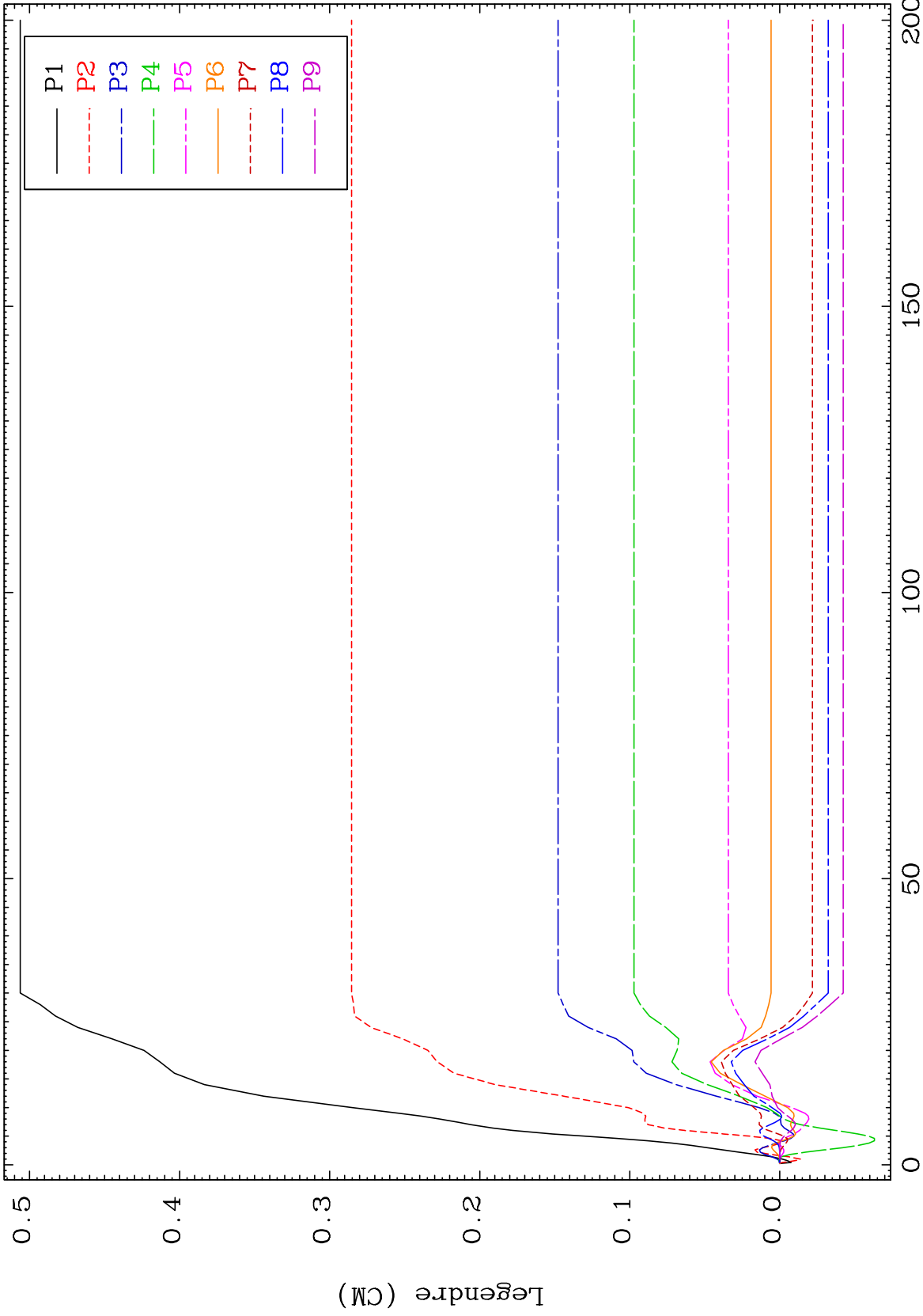
61-Pm-133



MAT 6107

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

61-Pm-133



31

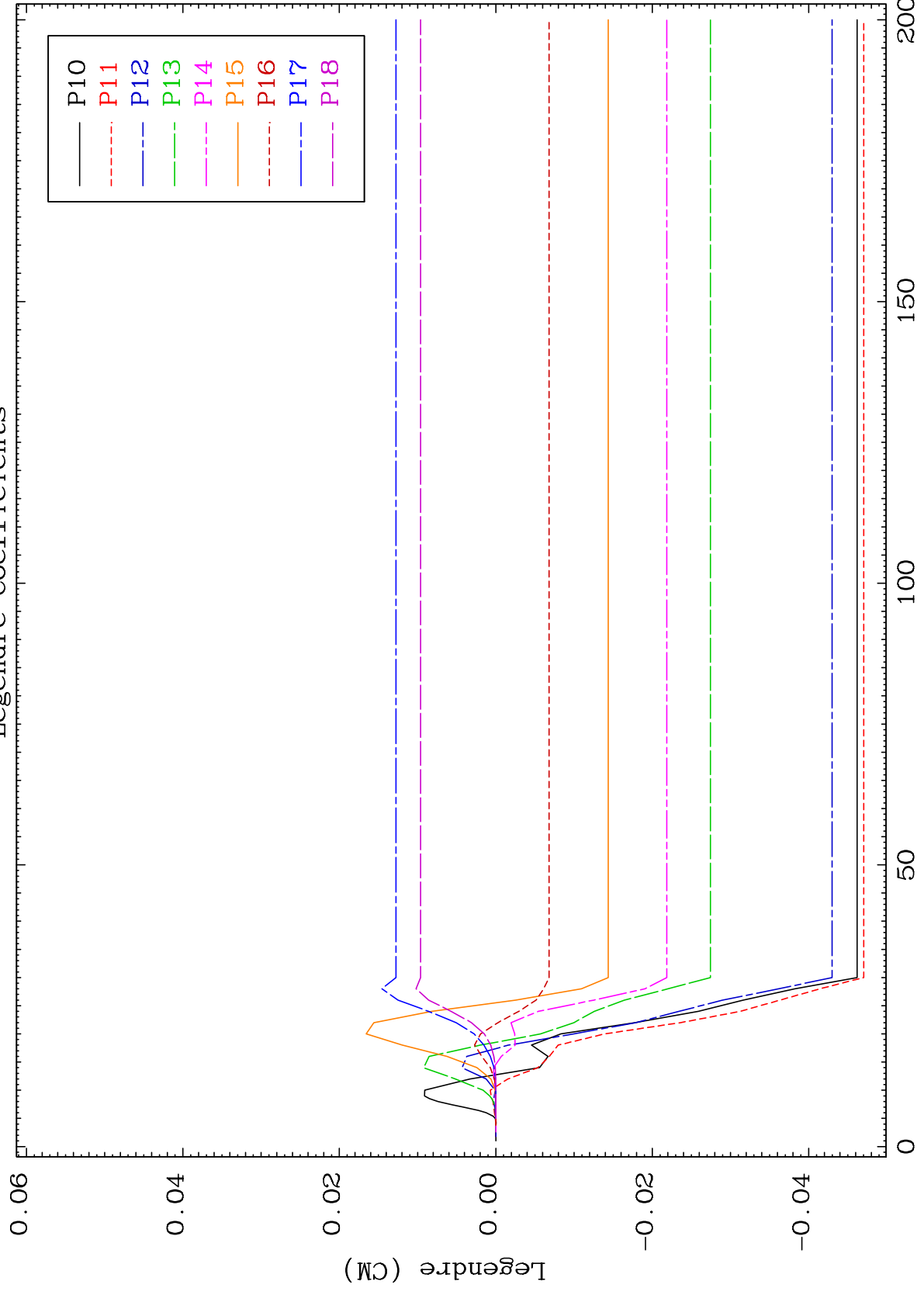
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

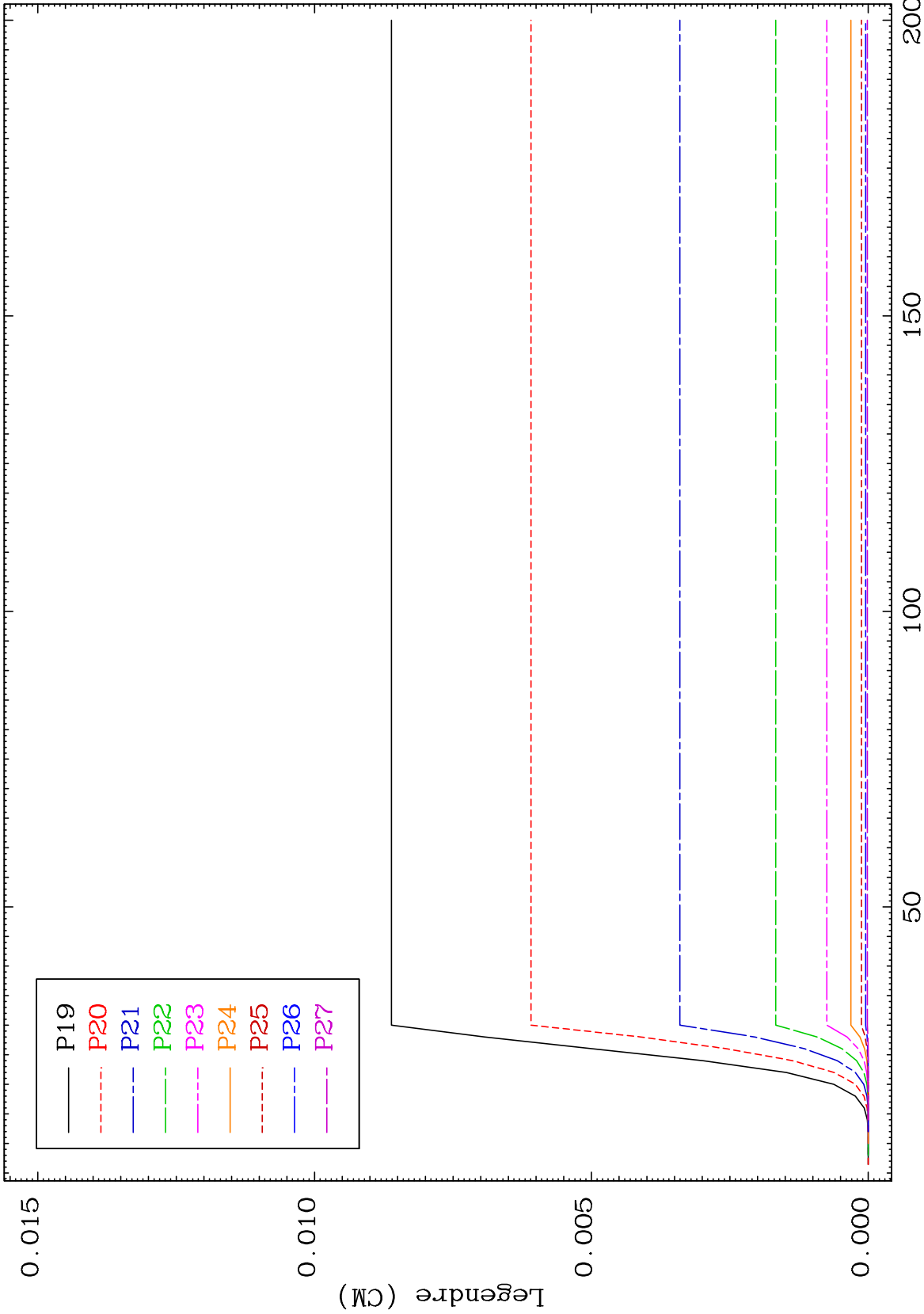
61-Pm-133



32

Incident Energy (MeV)

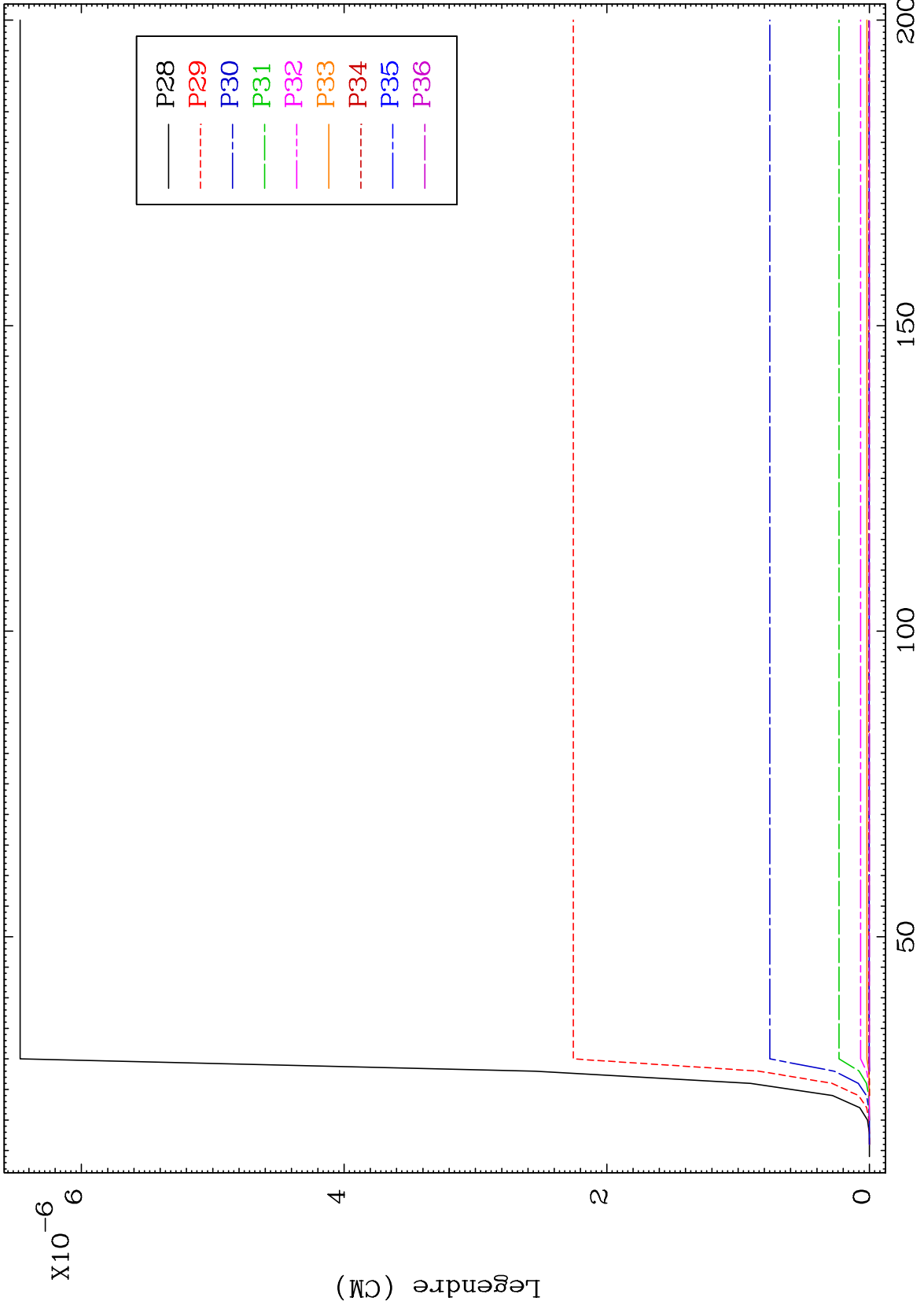
61-Pm-133



MAT 6107

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

61-Pm-133



34

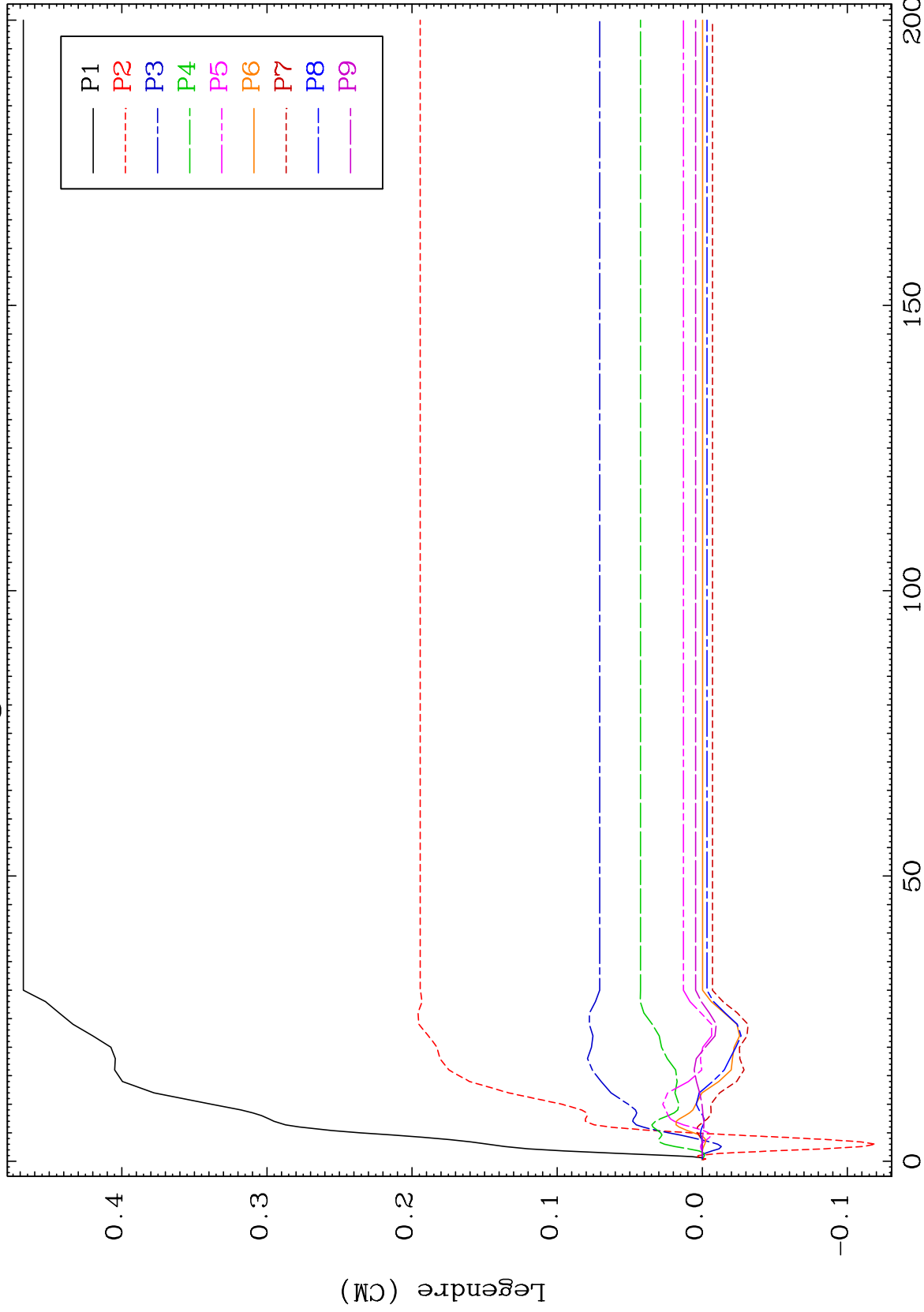
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



35

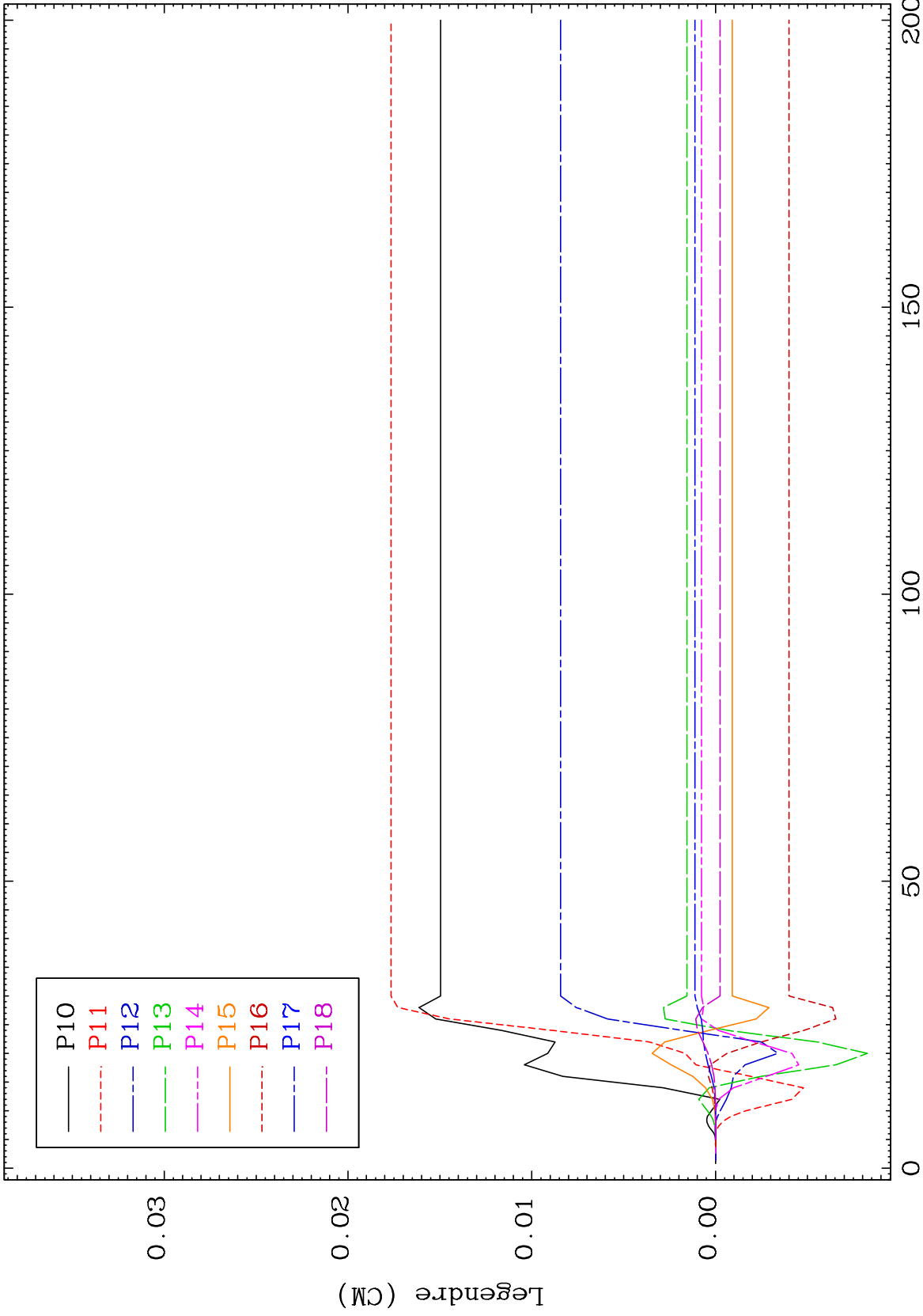
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

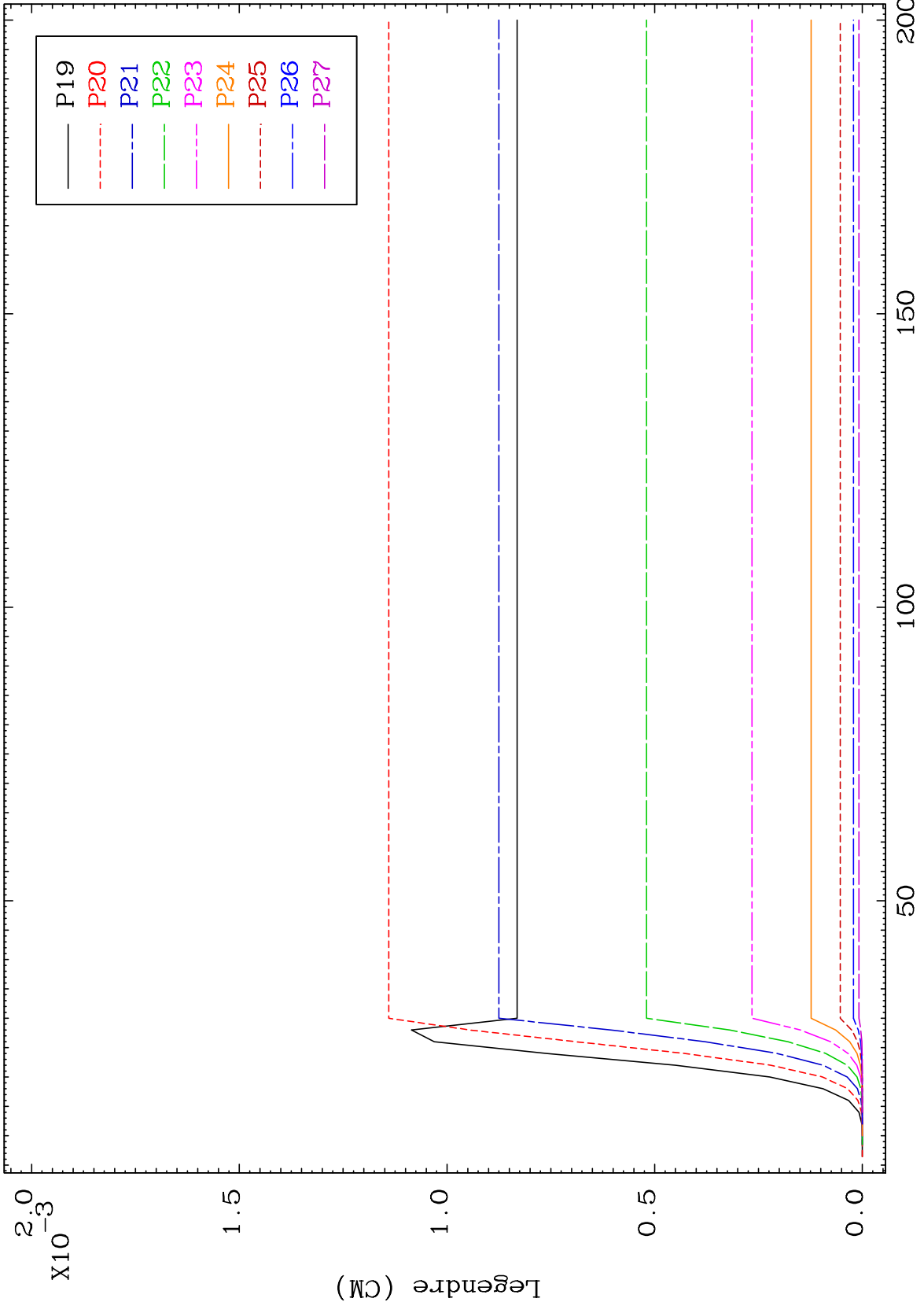
61-Pm-133



36

Incident Energy (MeV)

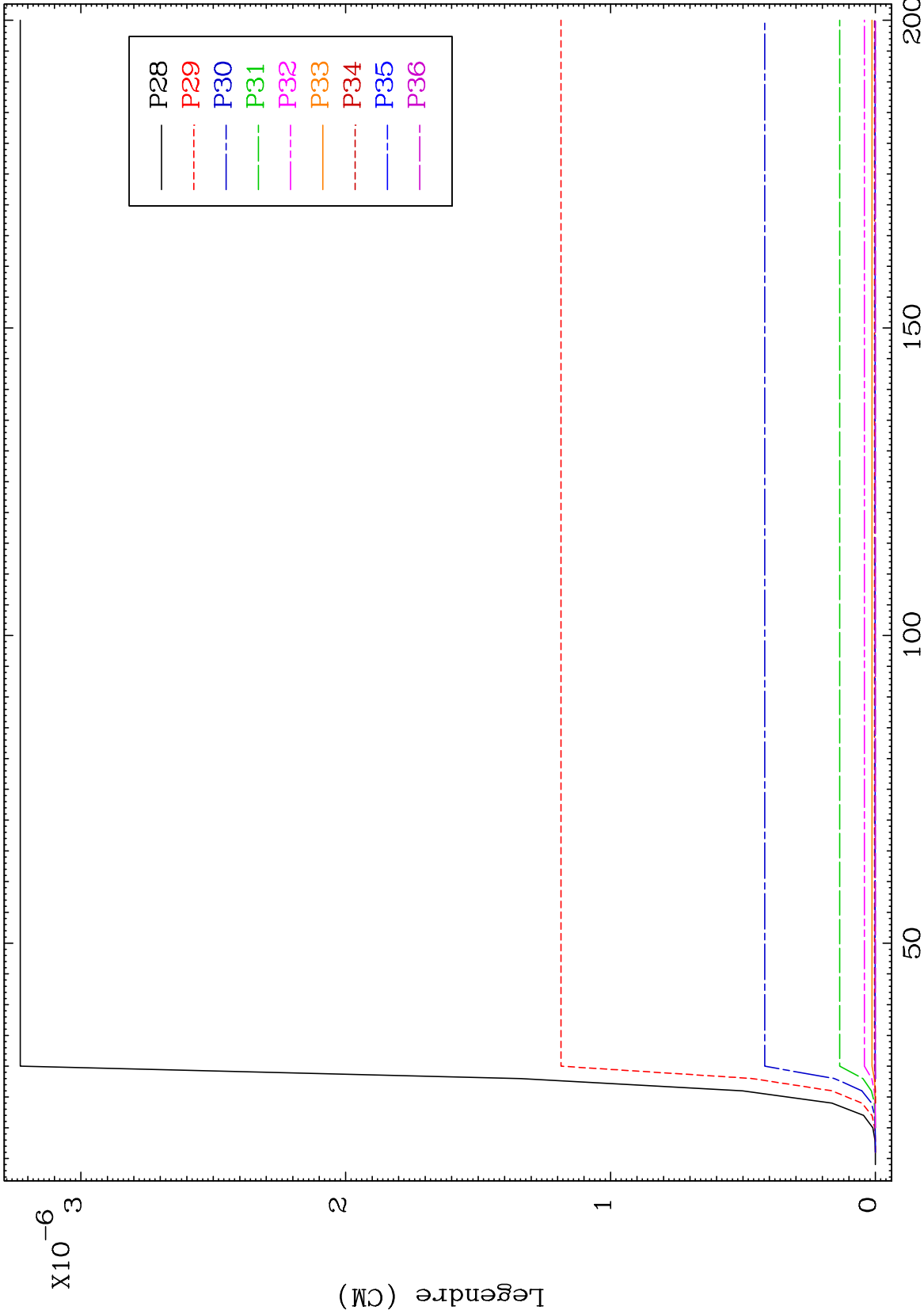
61-Pm-133



MAT 6107

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

61-Pm-133



38

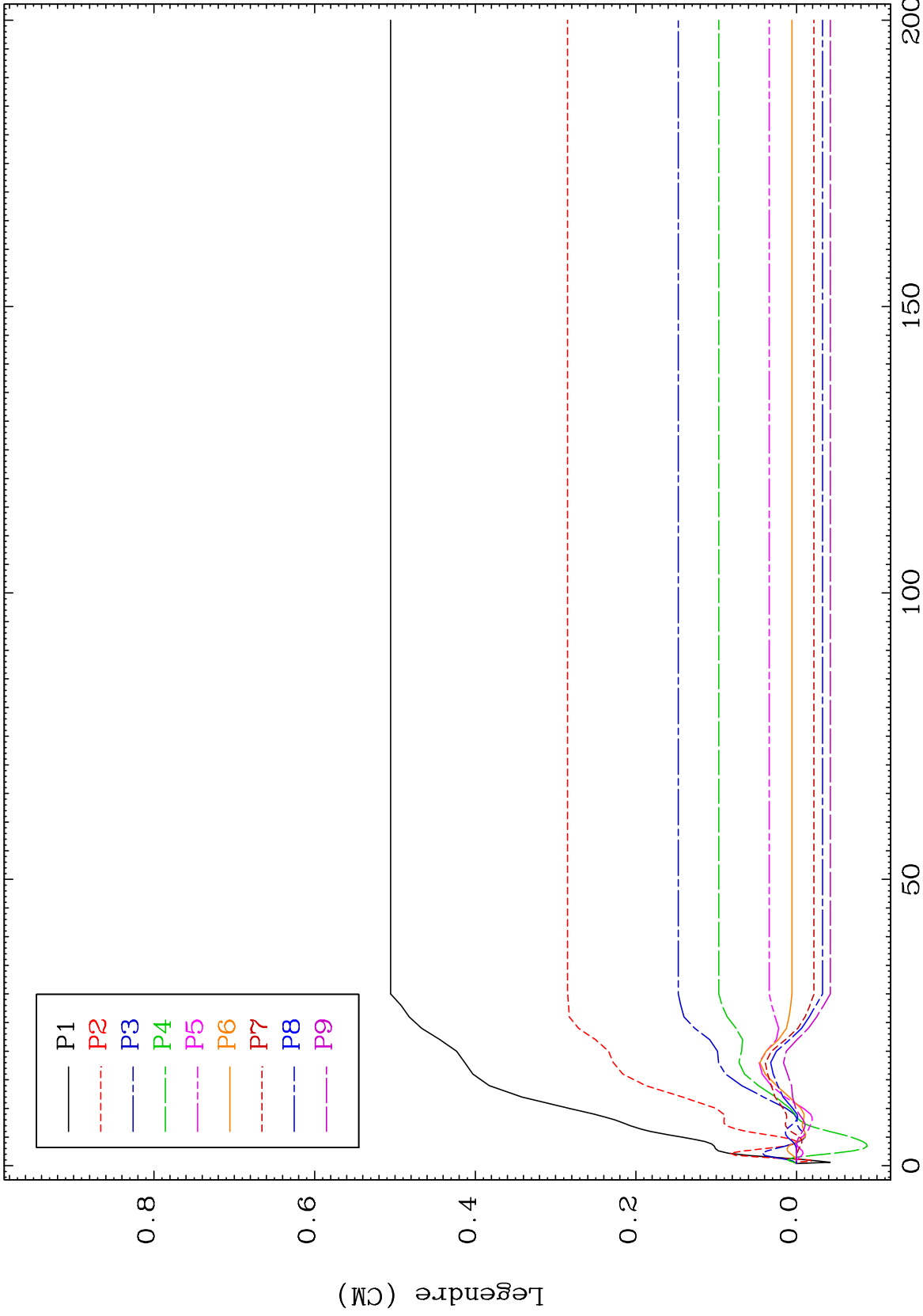
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



39

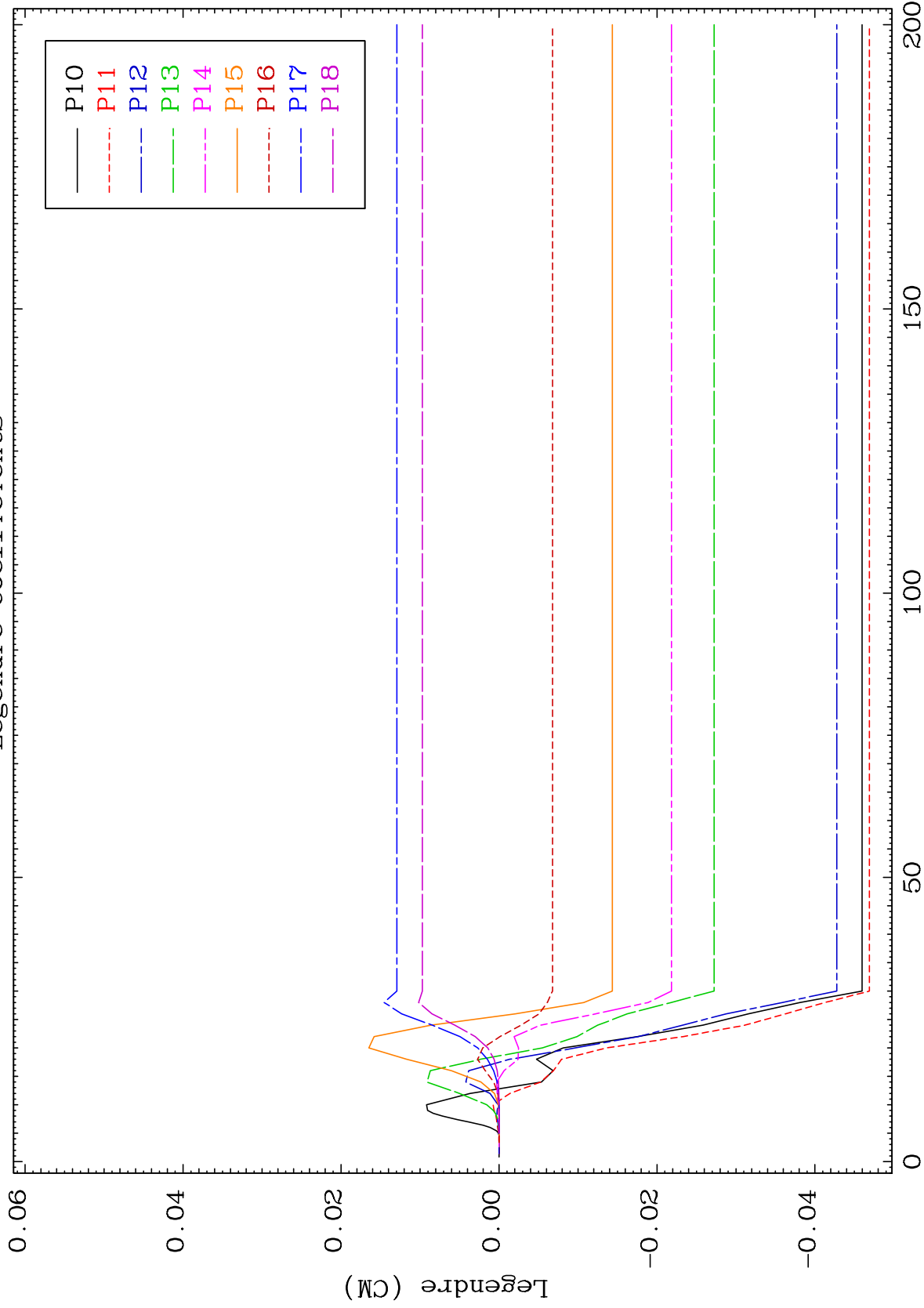
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



40

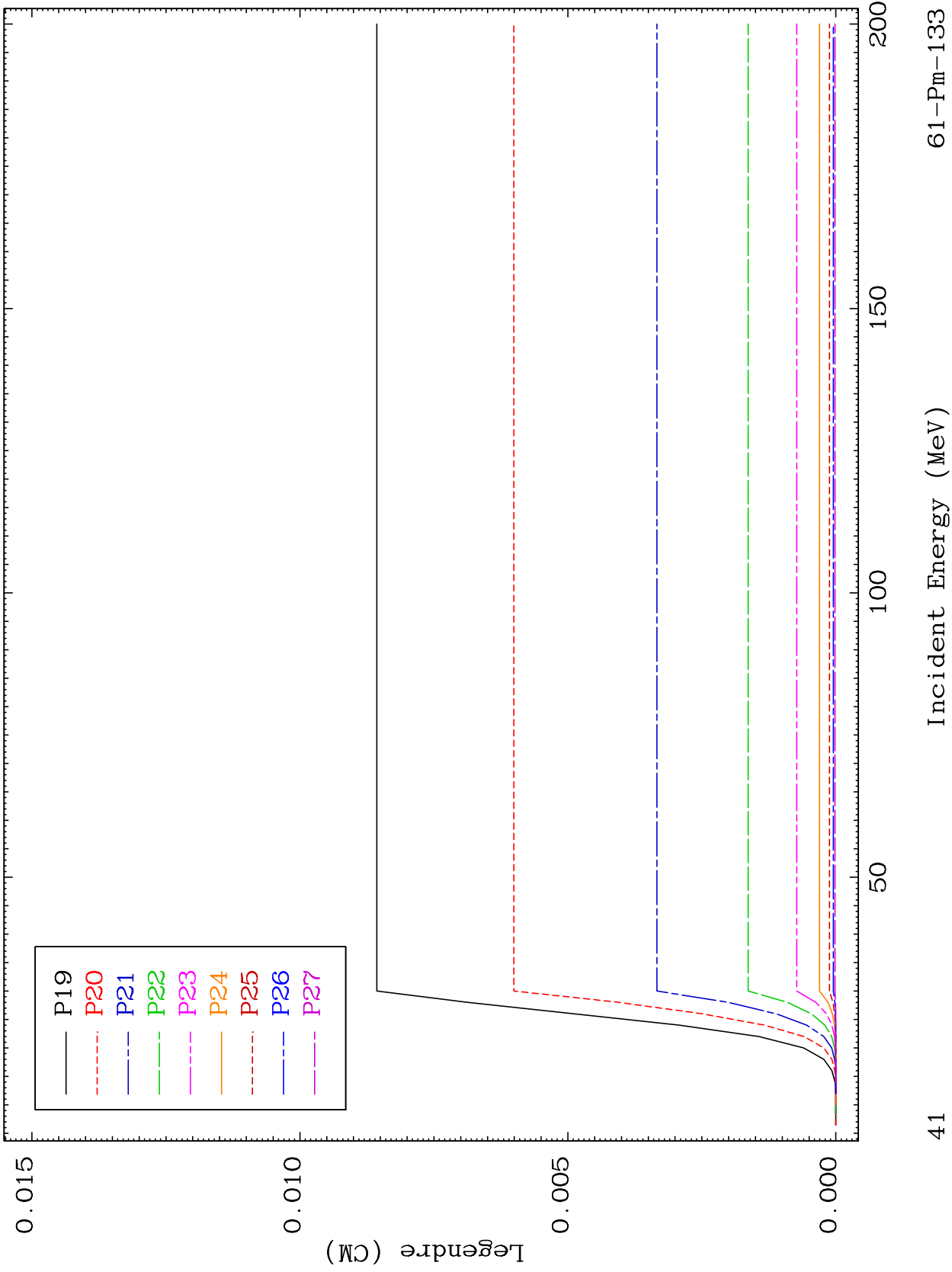
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

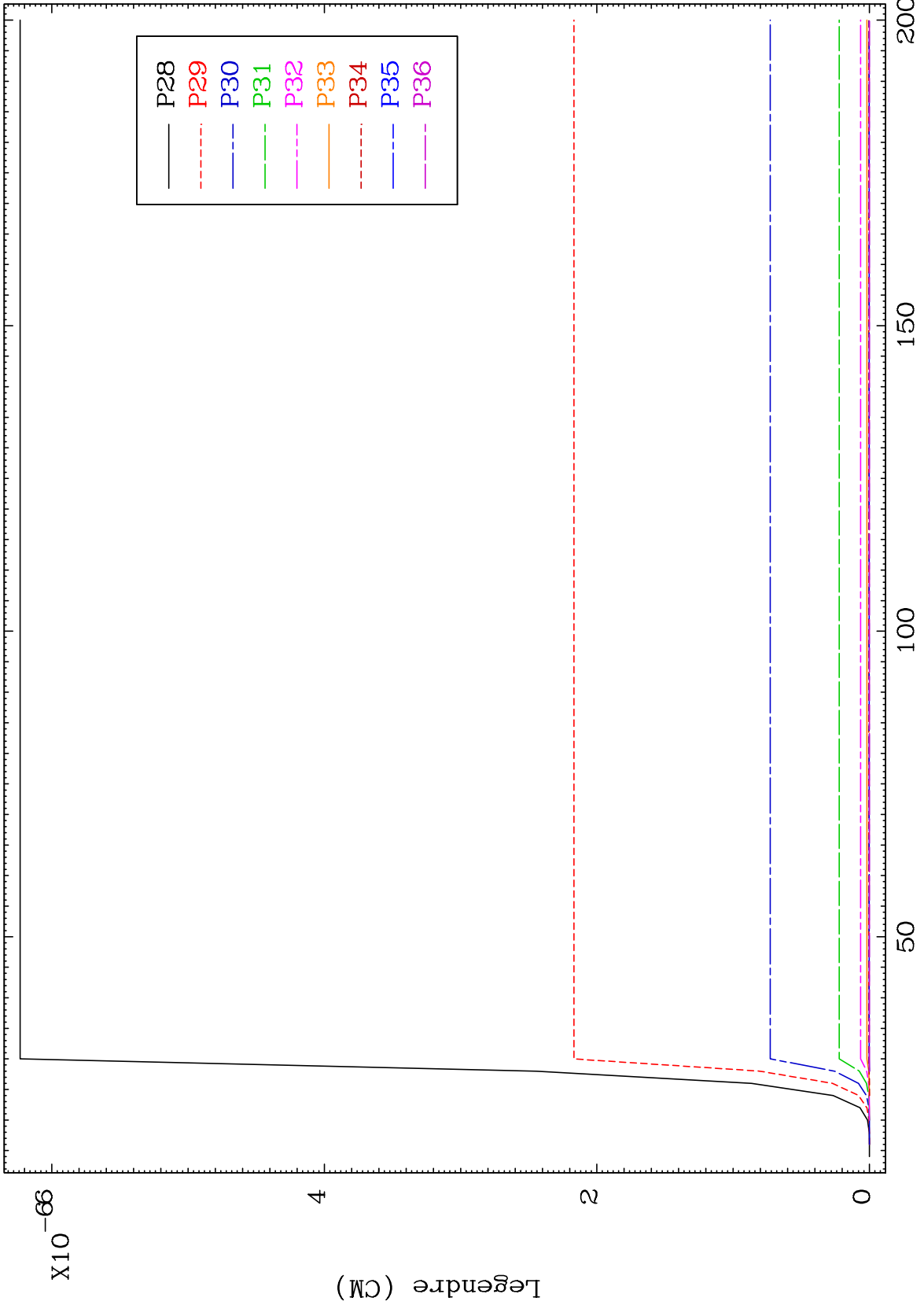
61-Pm-133



MAT 6107

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

61-Pm-133



42

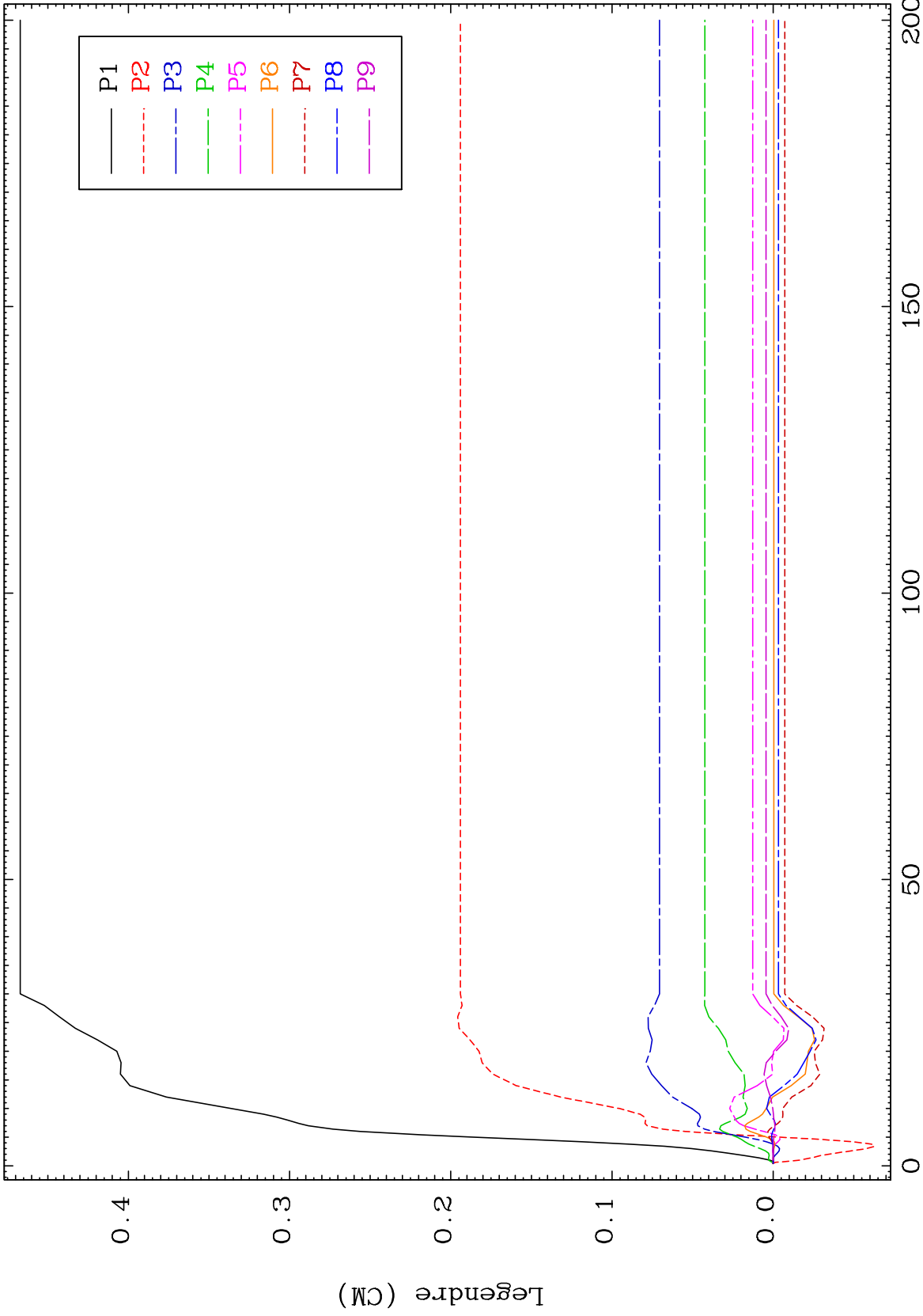
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



43

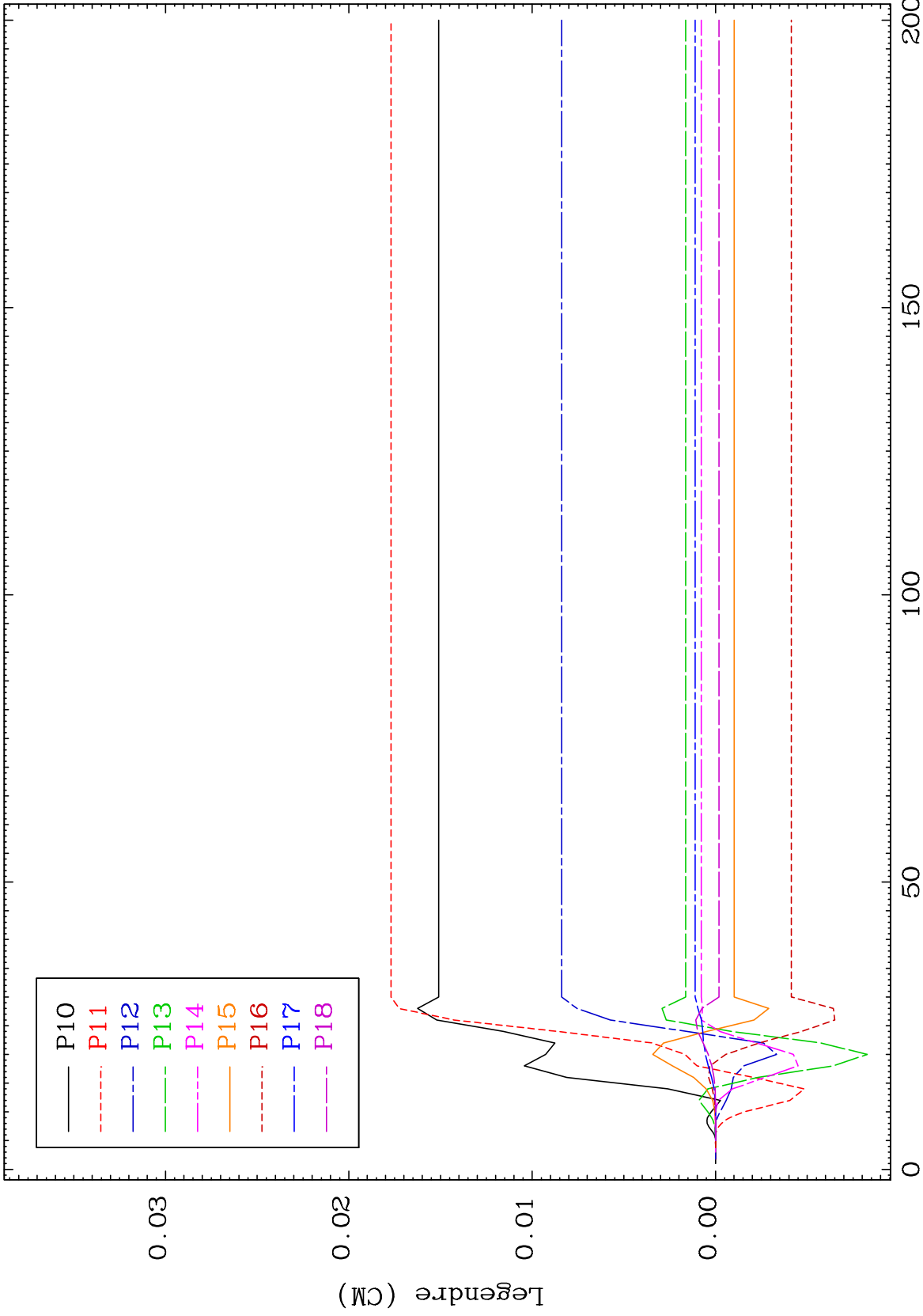
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



44

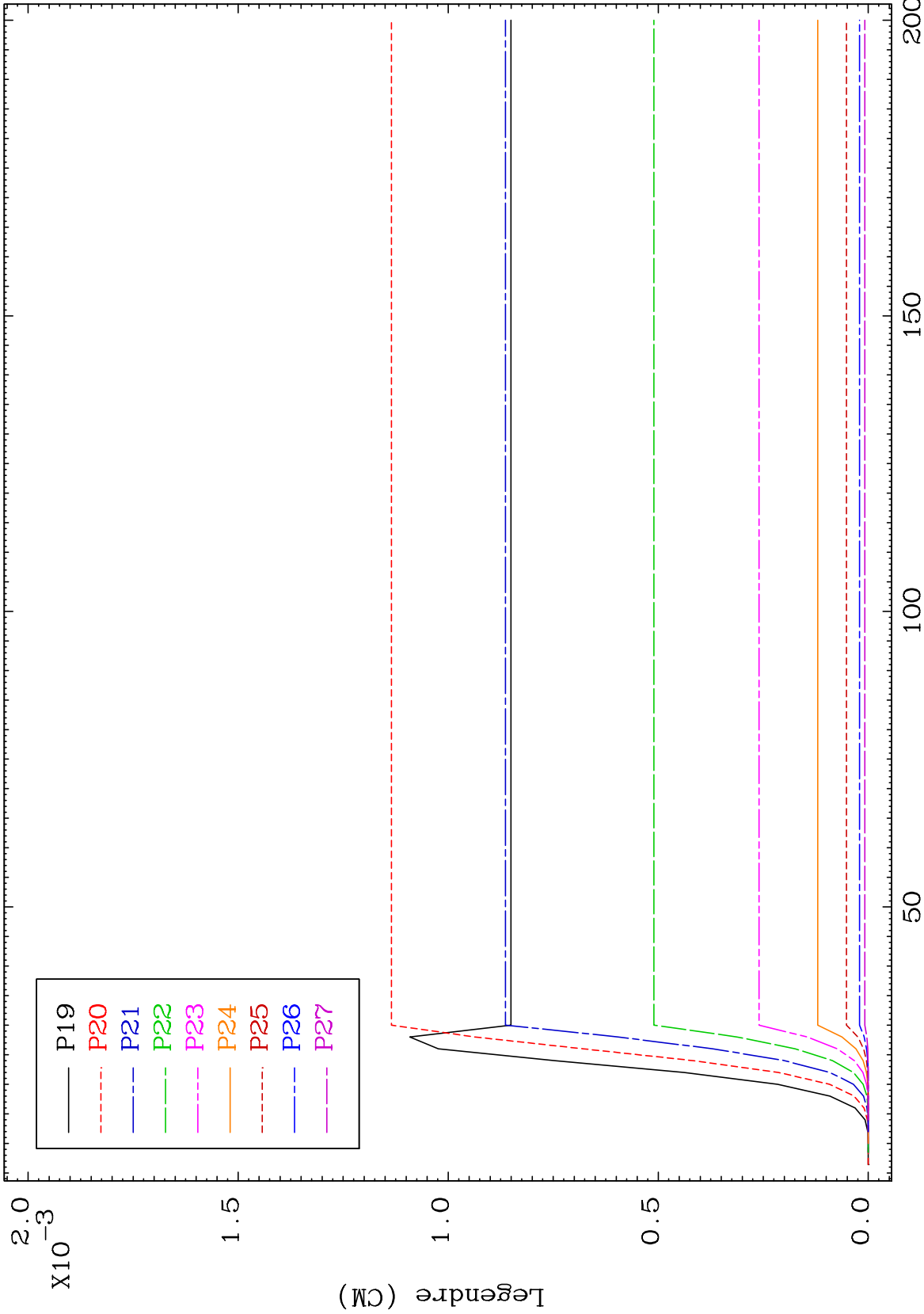
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



45

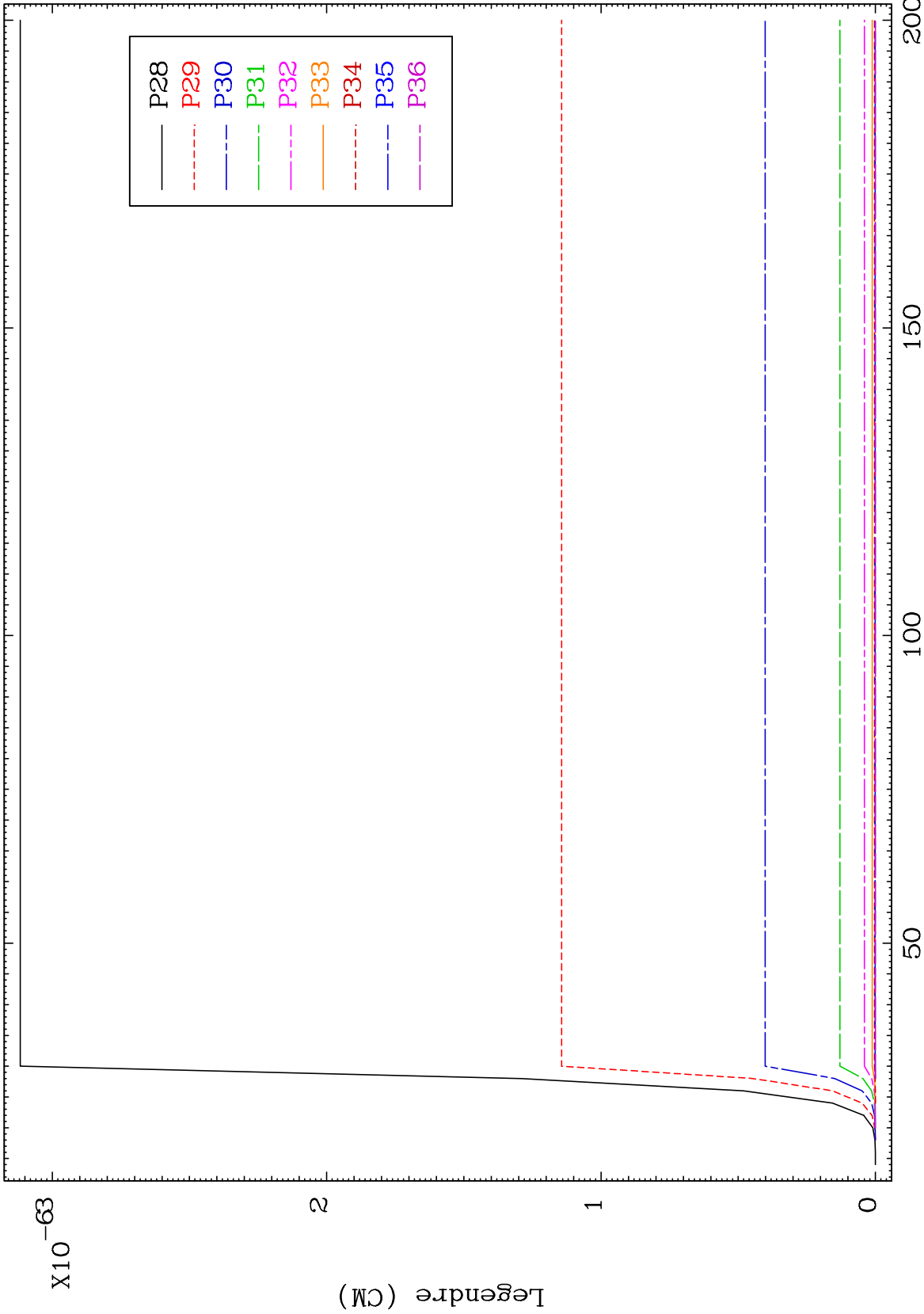
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



46

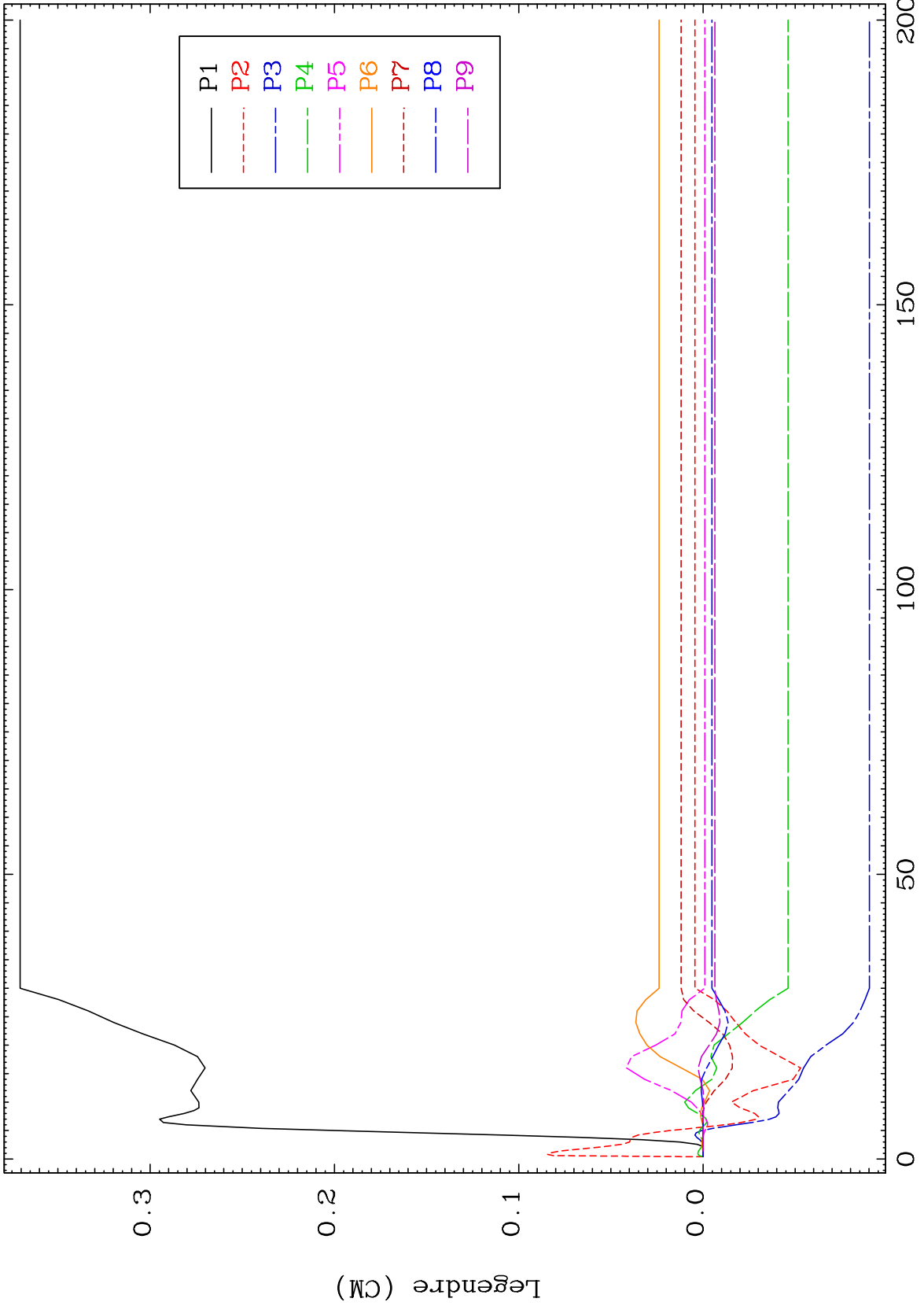
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



47

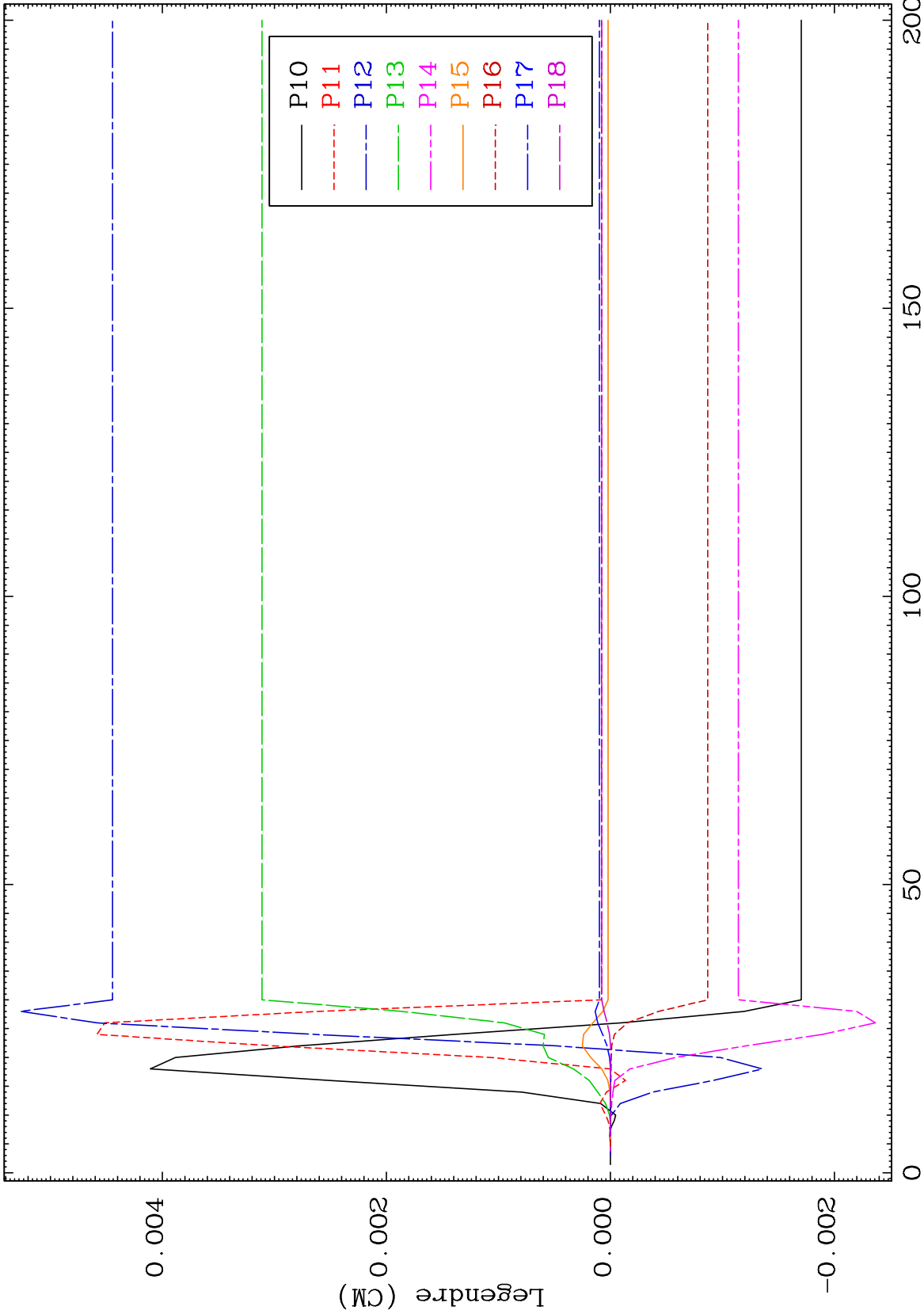
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

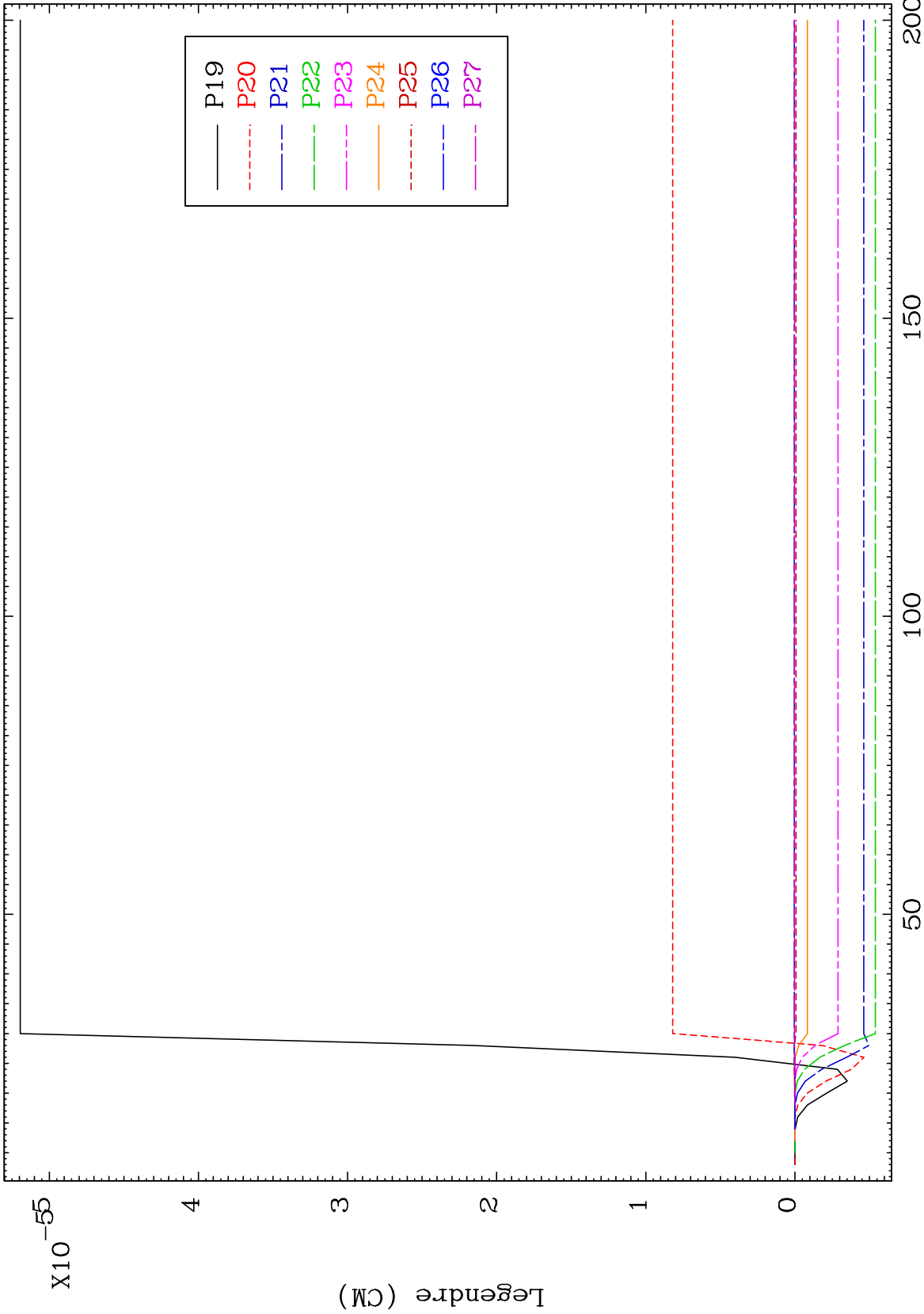
61-Pm-133



48

Incident Energy (MeV)

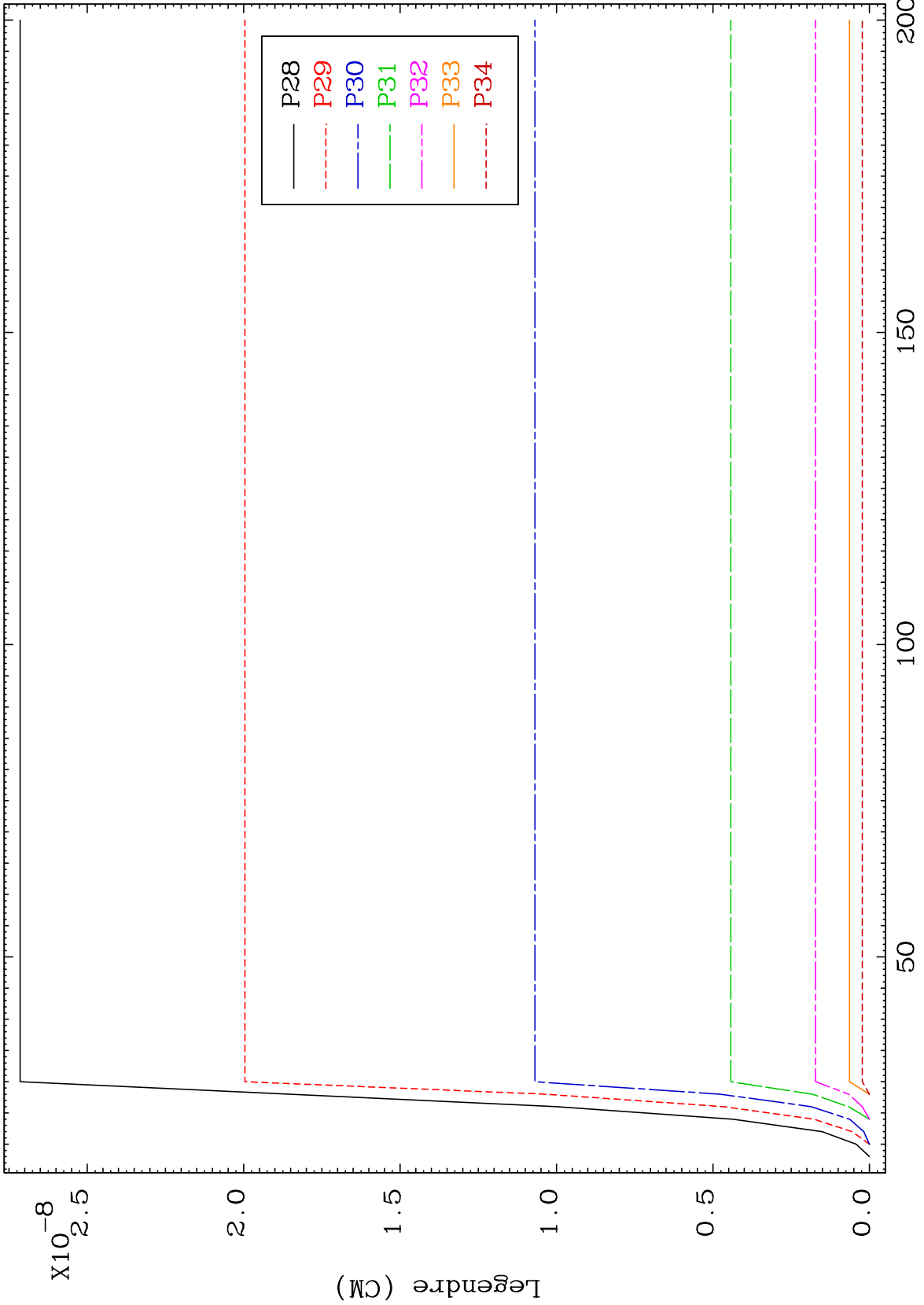
61-Pm-133



MAT 6107

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

61-Pm-133



50

50

100

150

200

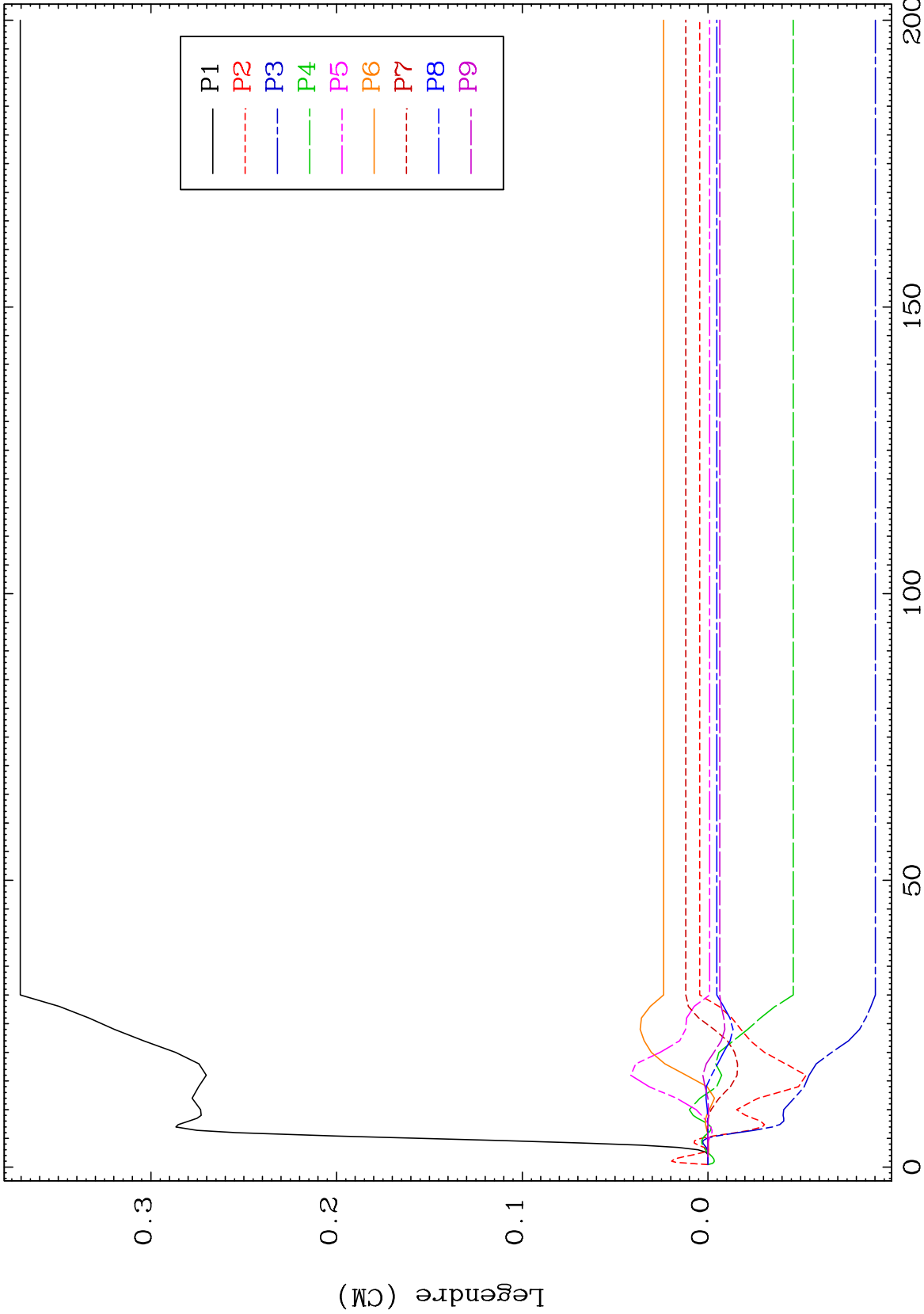
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



51

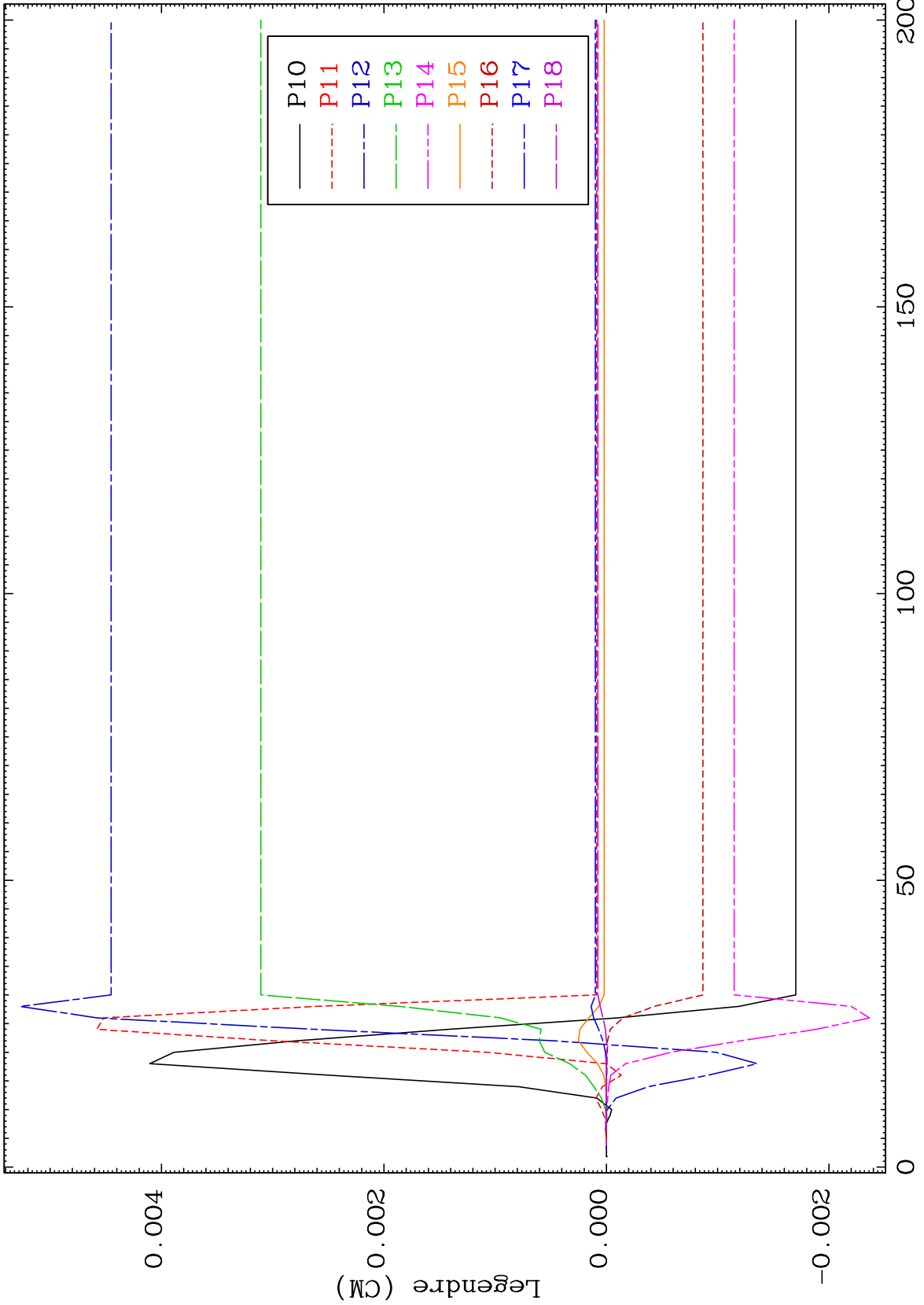
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



52

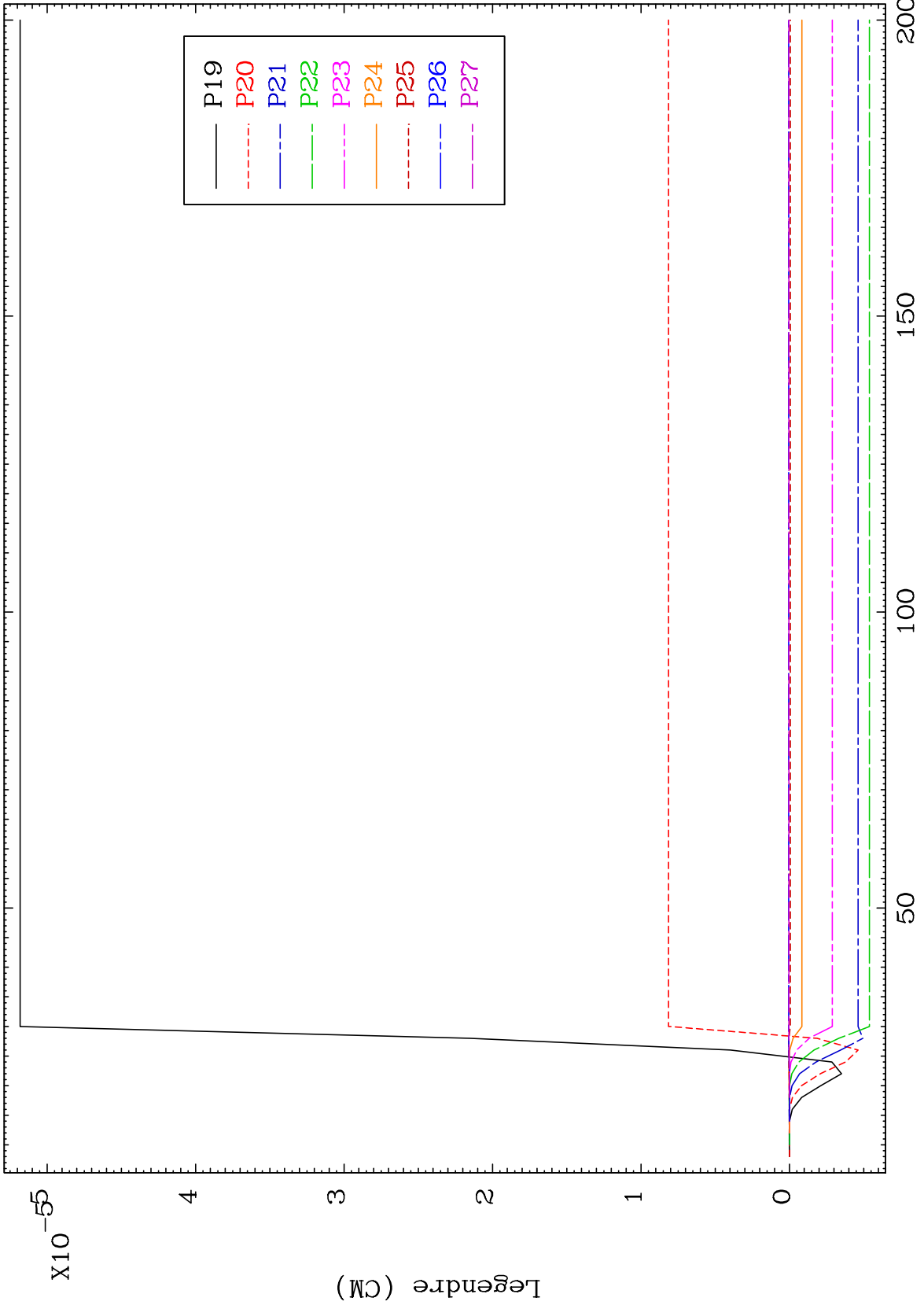
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



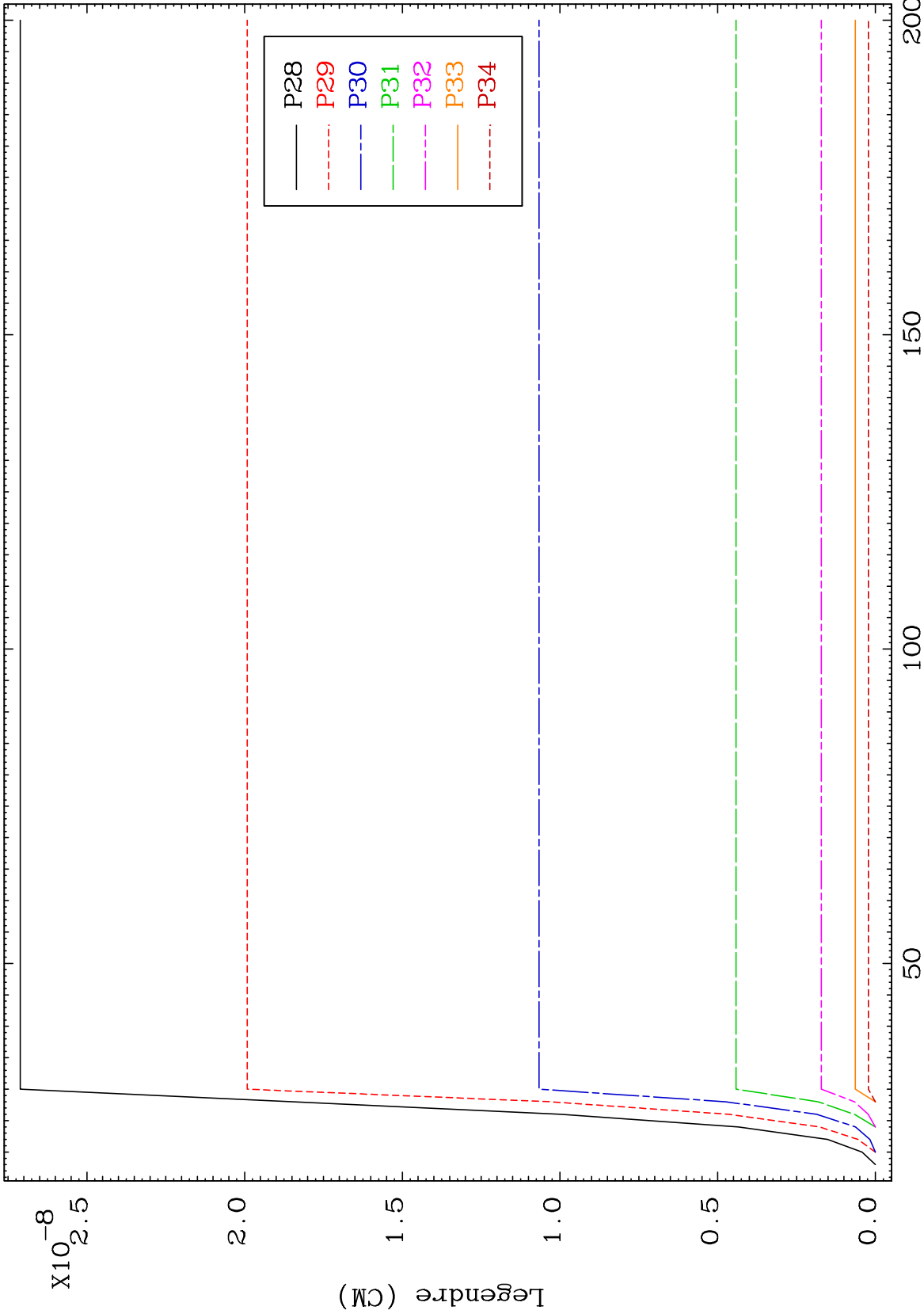
53

61-Pm-133

MAT 6107

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

61-Pm-133



54

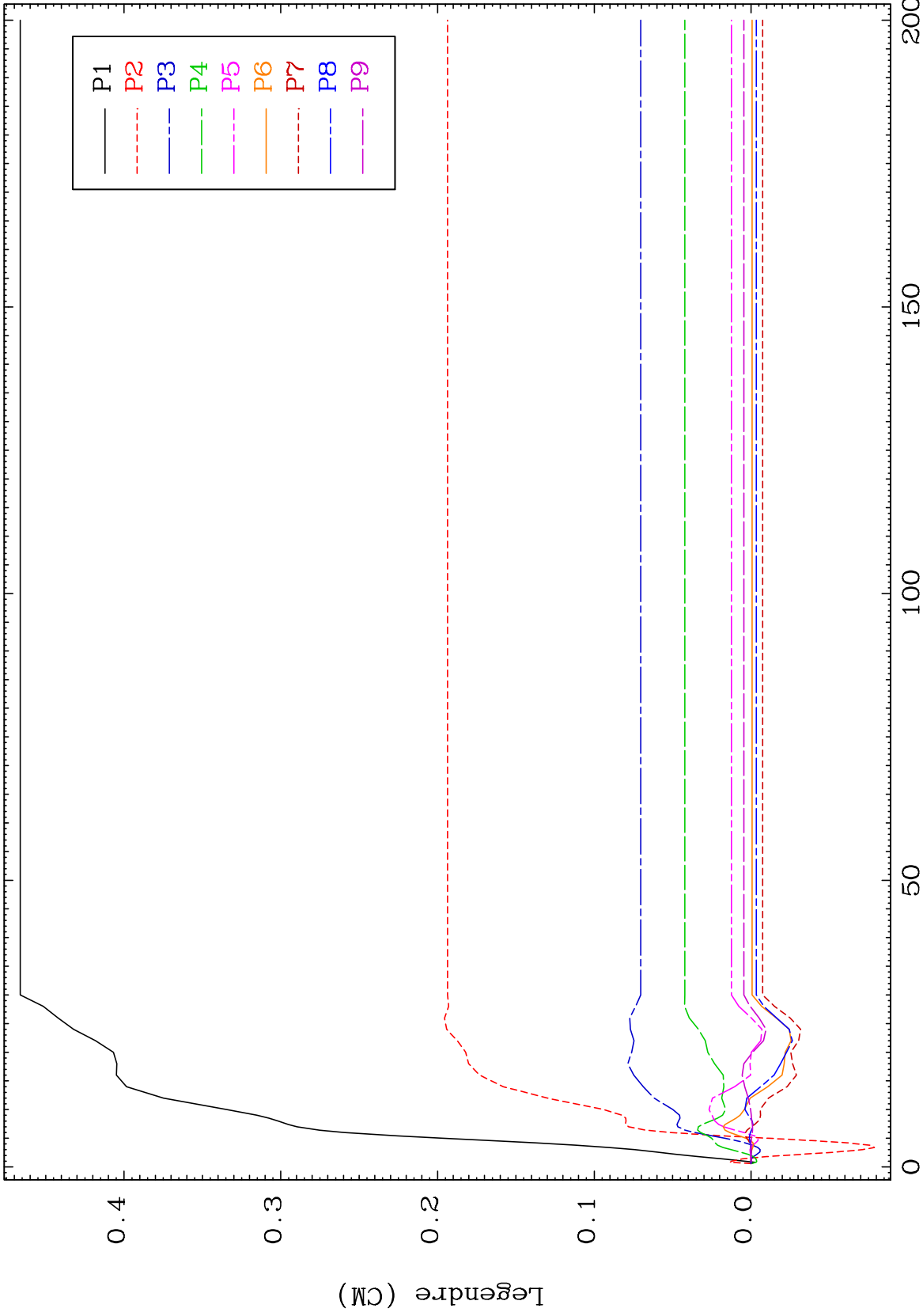
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



55

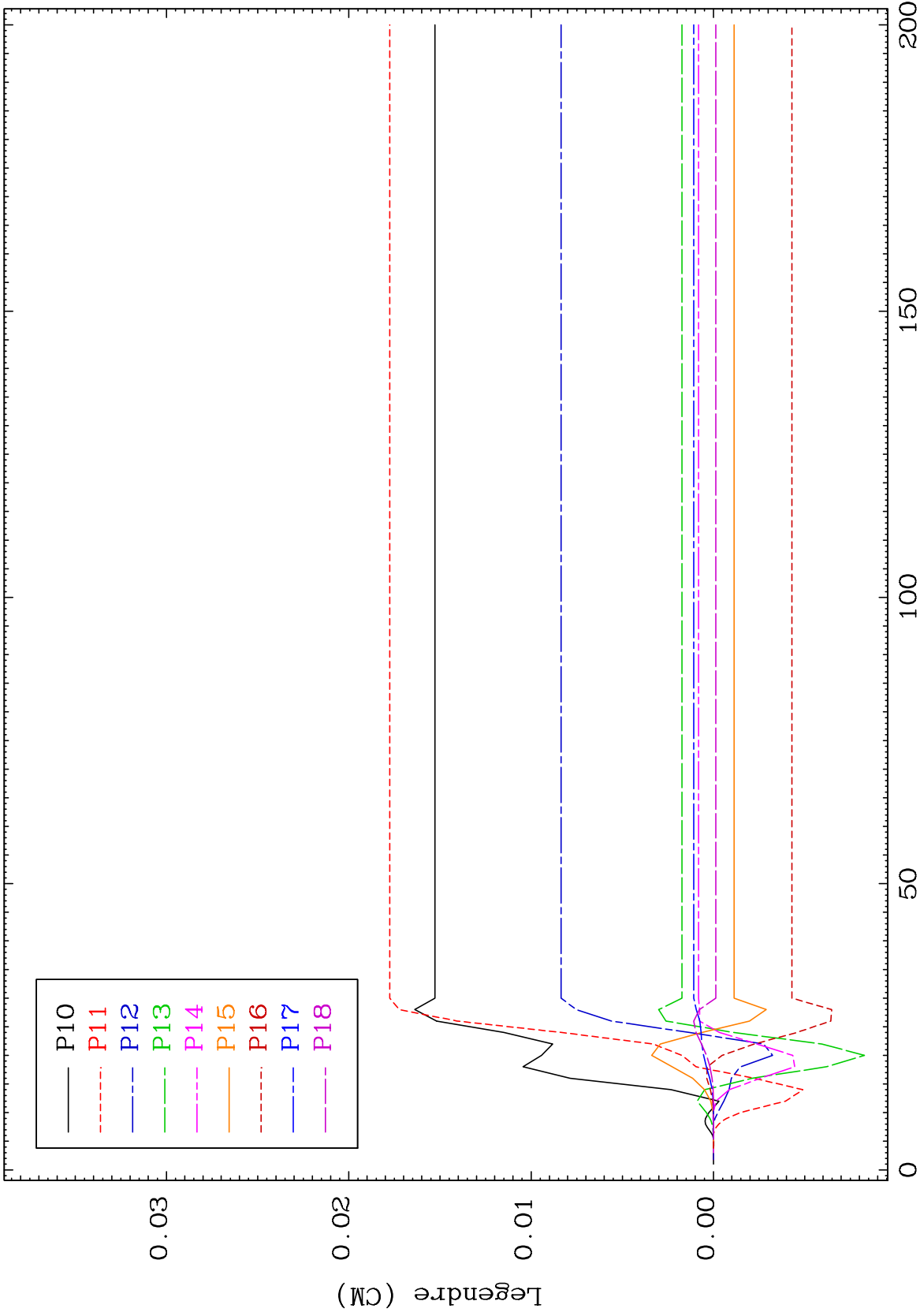
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



56

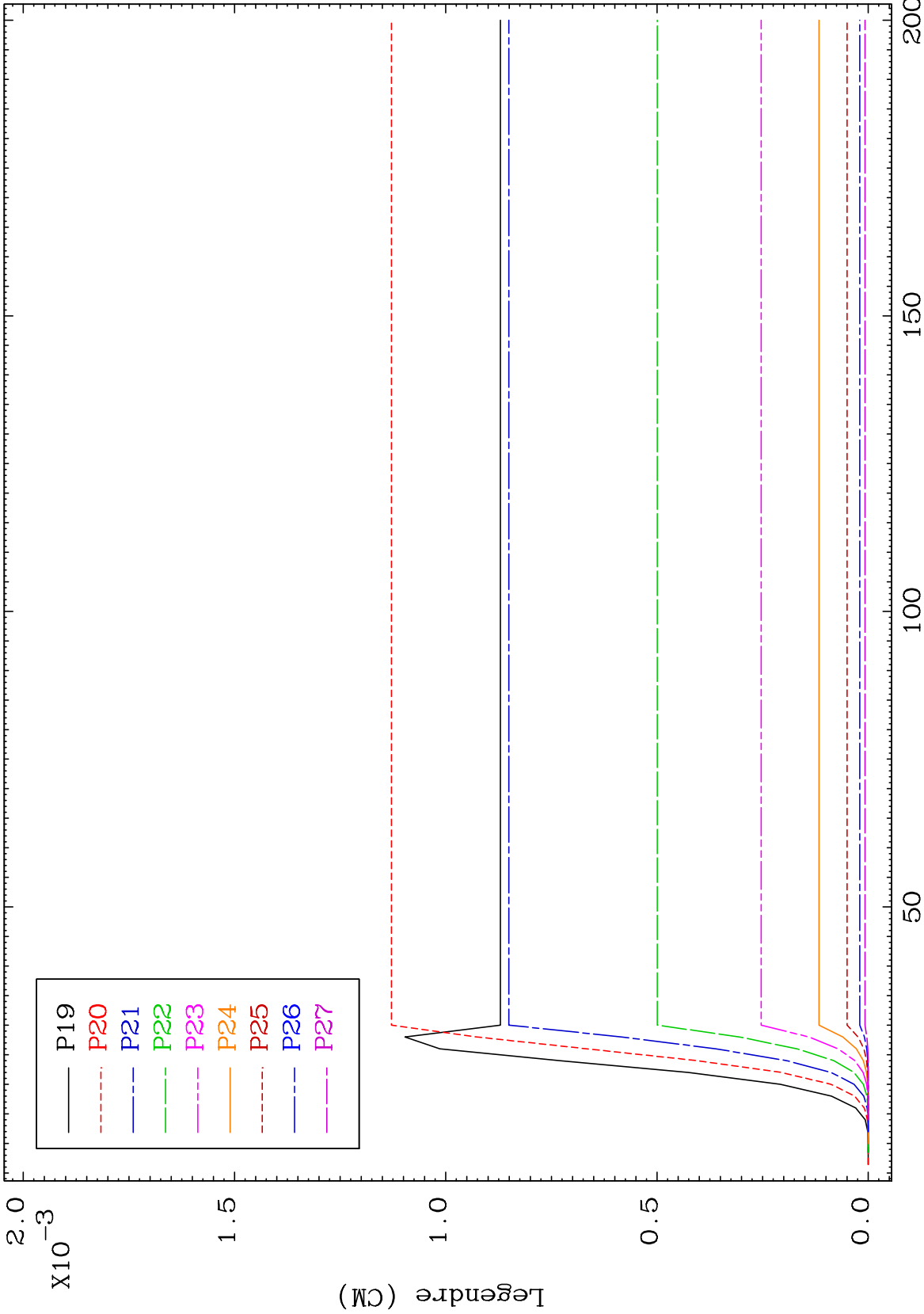
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



57

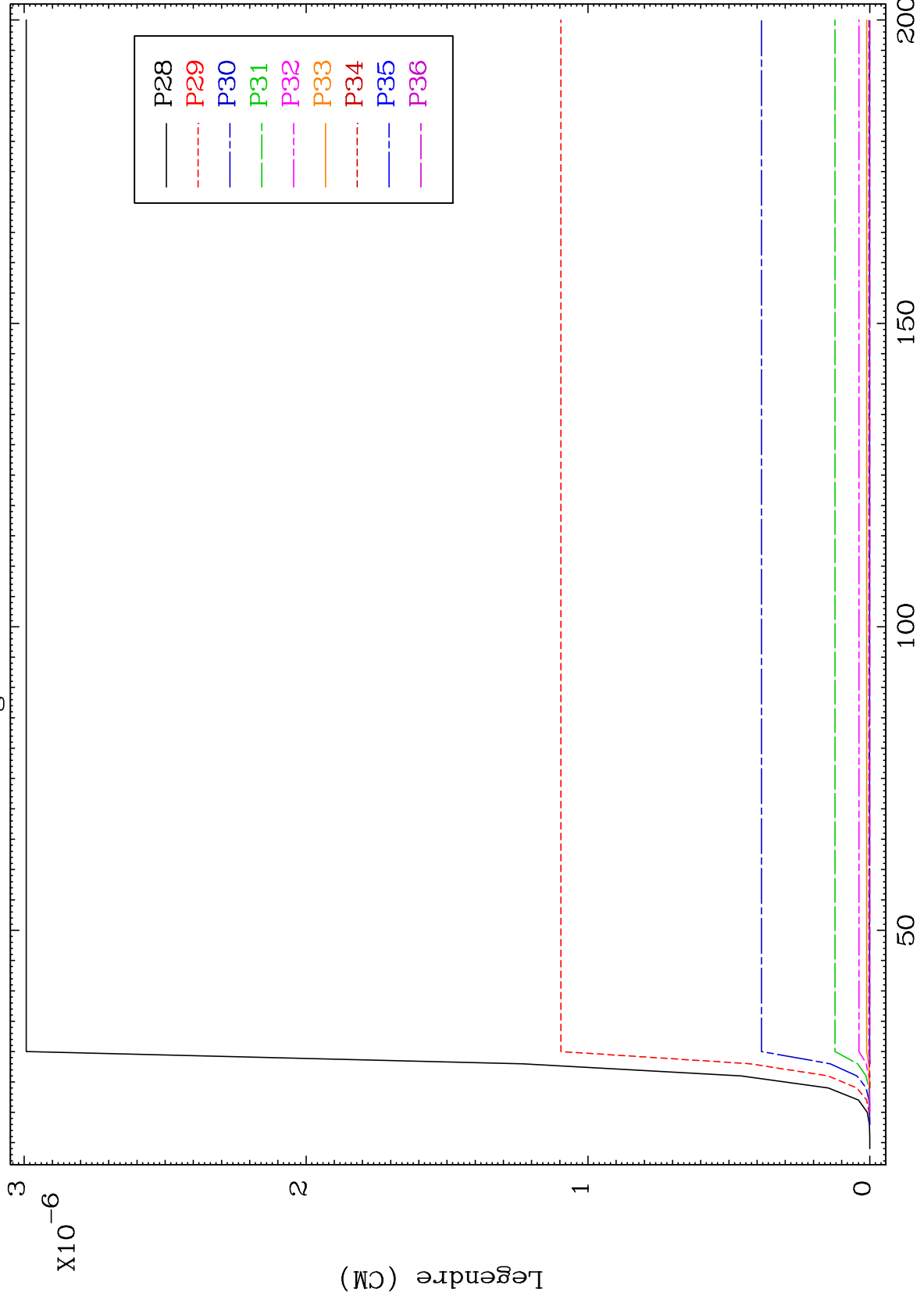
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



58

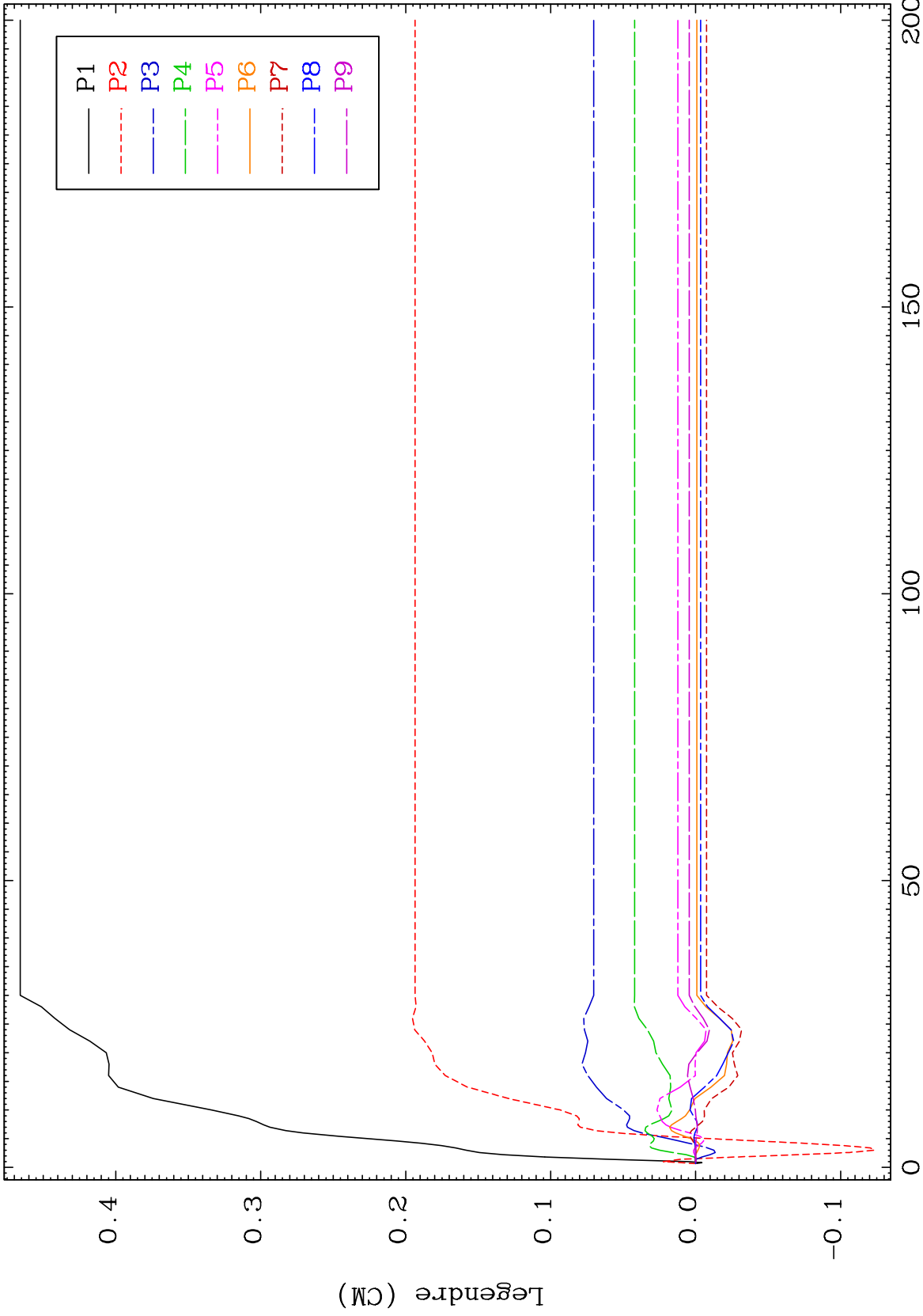
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



59

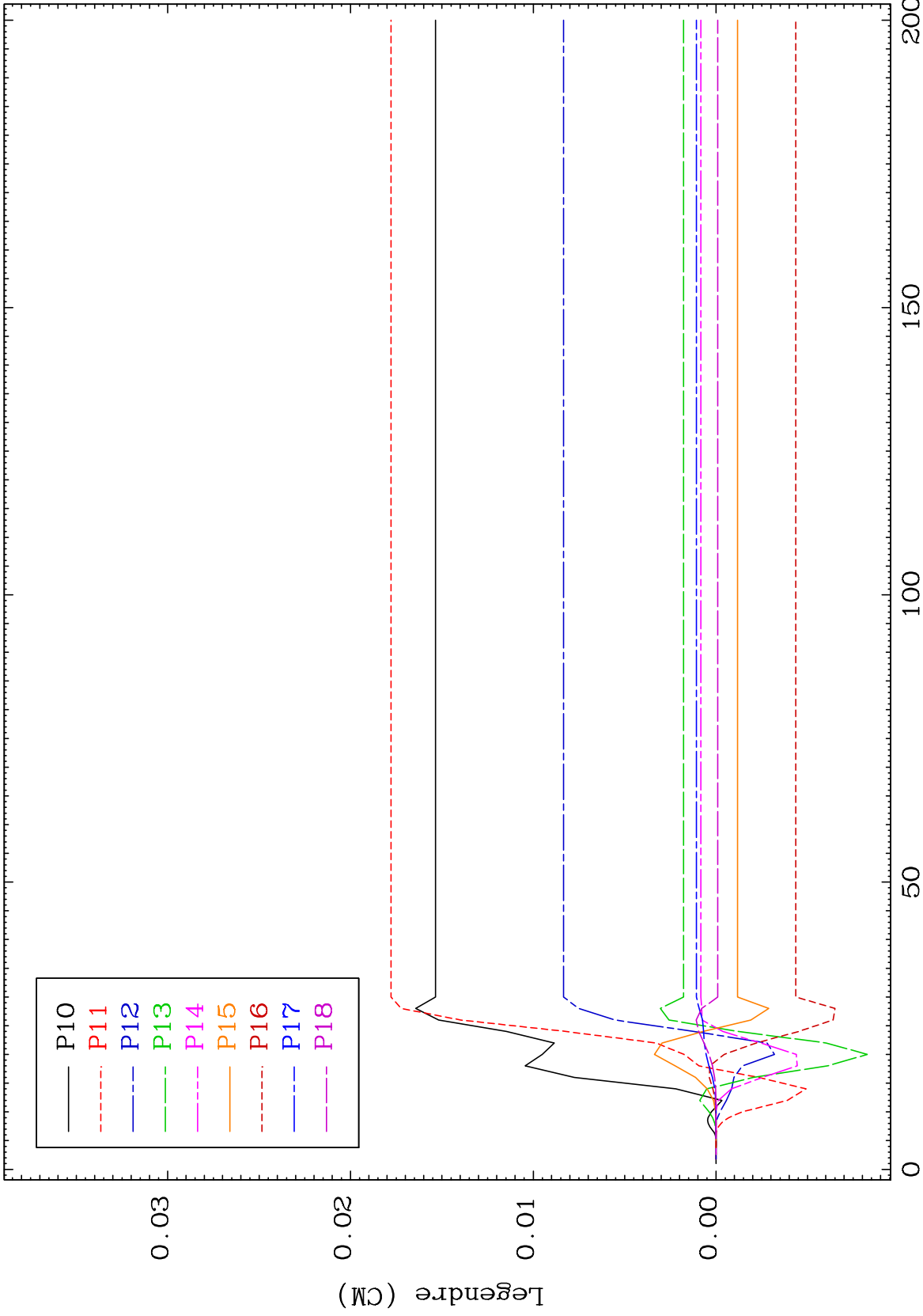
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



0

50

100

150

200

61-Pm-133

Incident Energy (MeV)

Legendre (cm)

0.03

0.02

0.01

0.00

P10

P11

P12

P13

P14

P15

P16

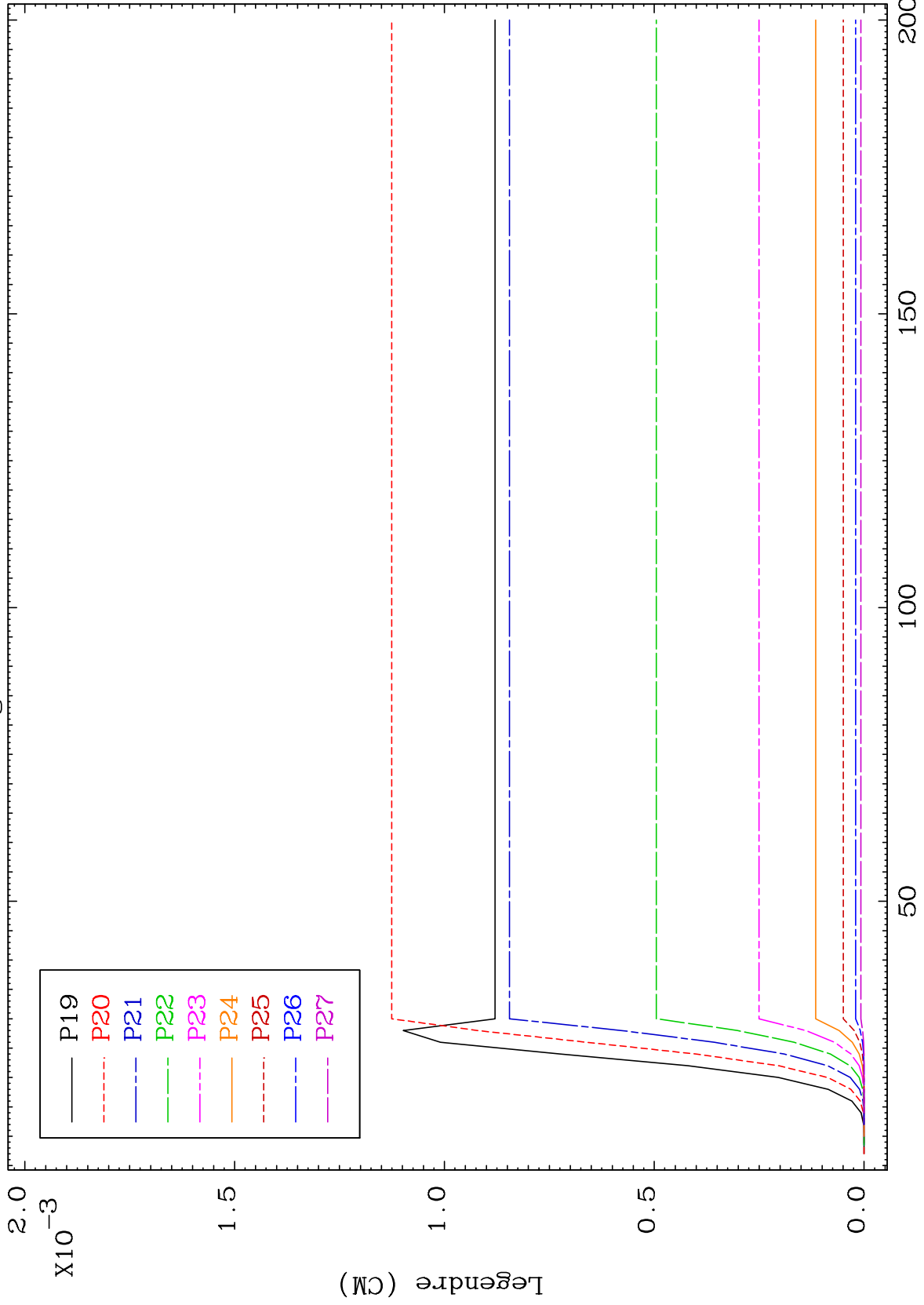
P17

P18

MAT 6107

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

61-Pm-133



61

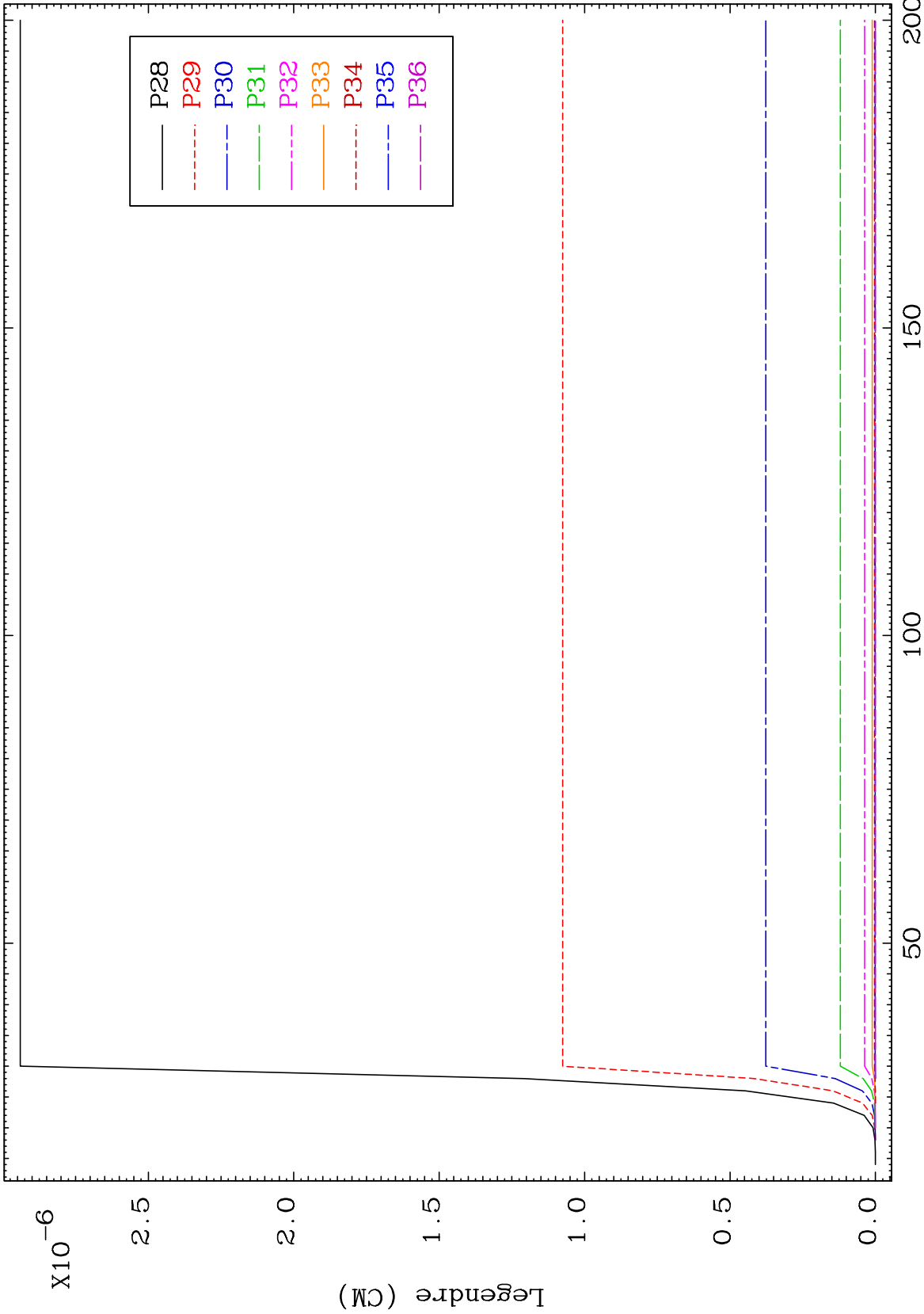
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



62

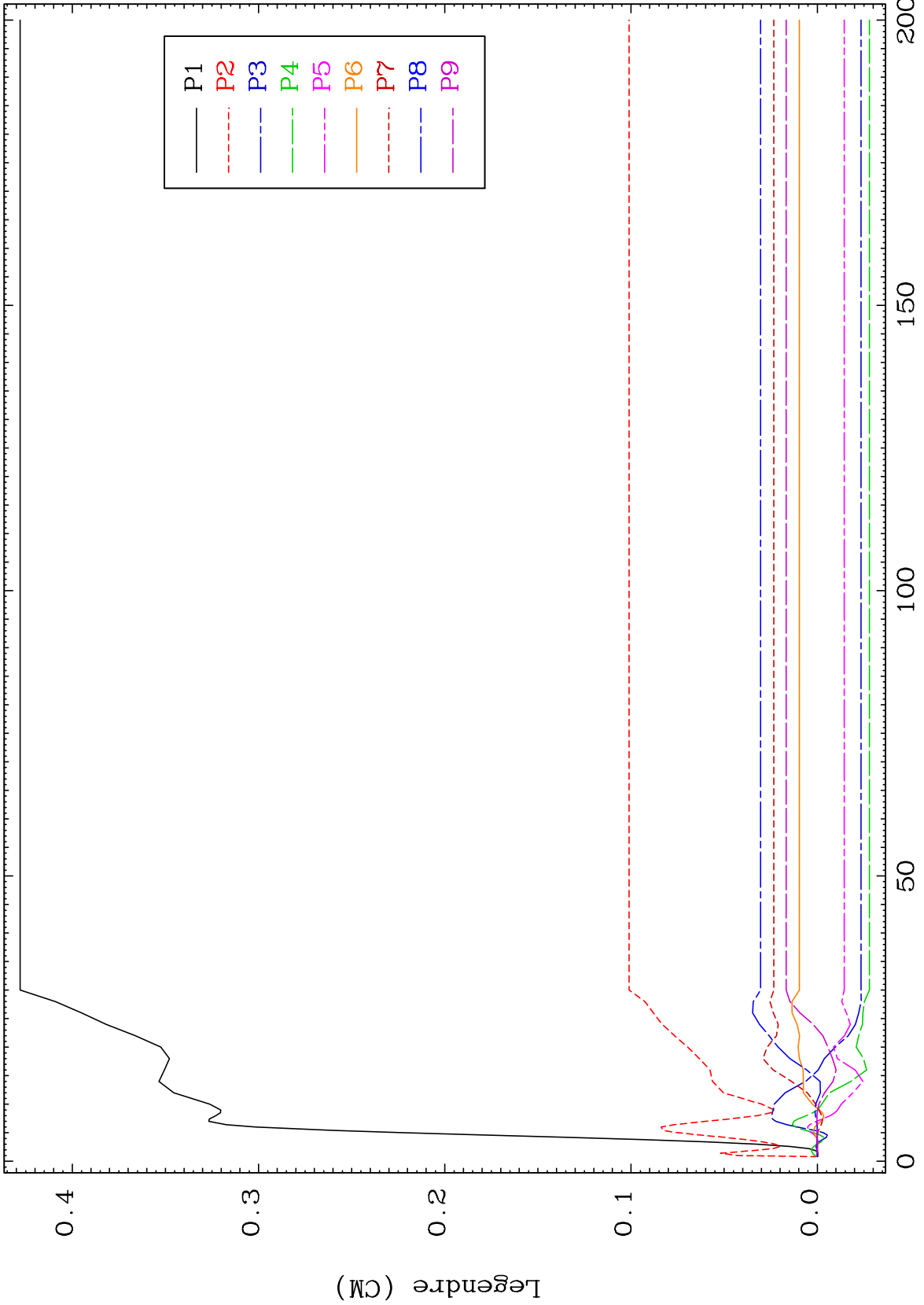
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



63

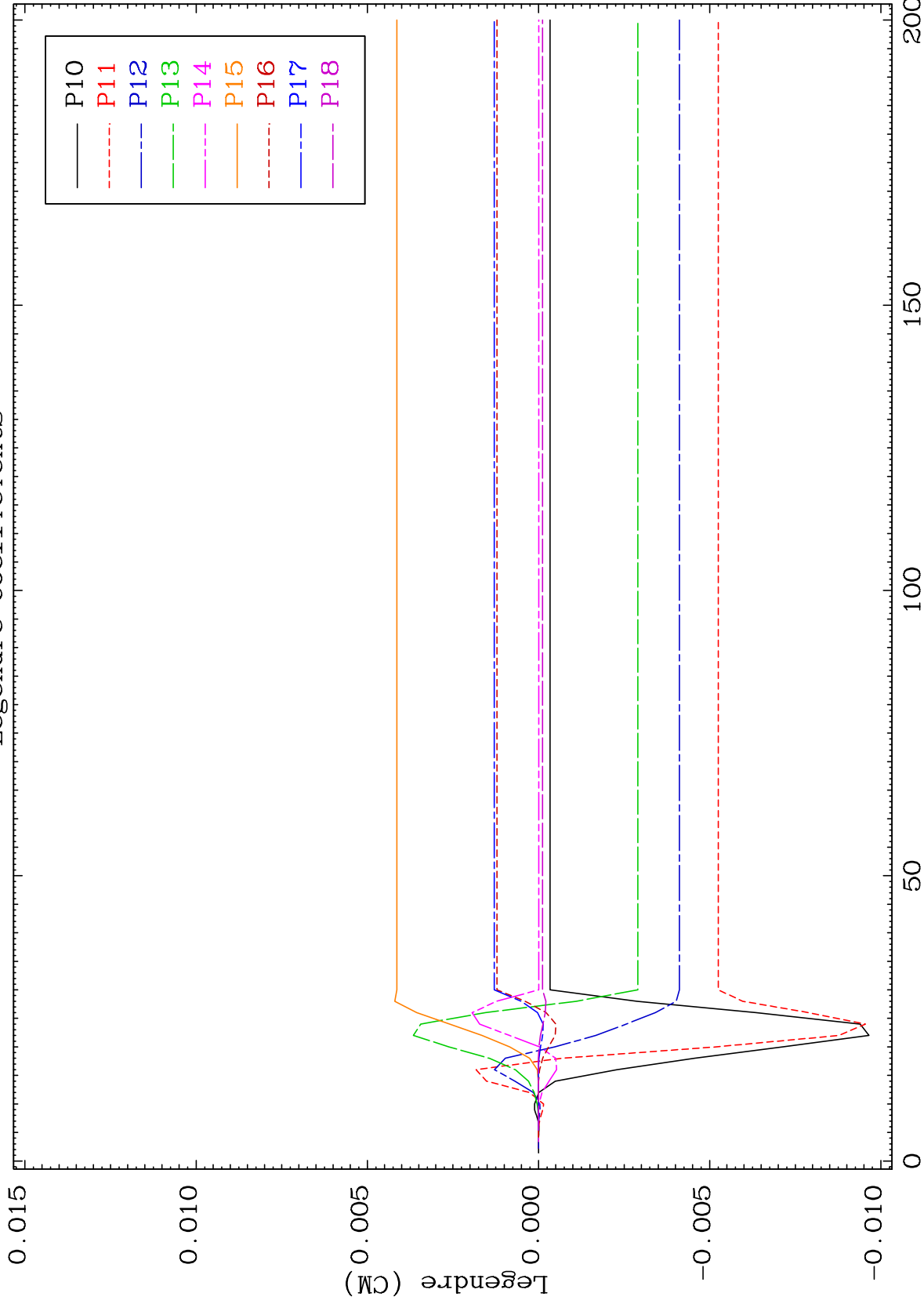
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



64

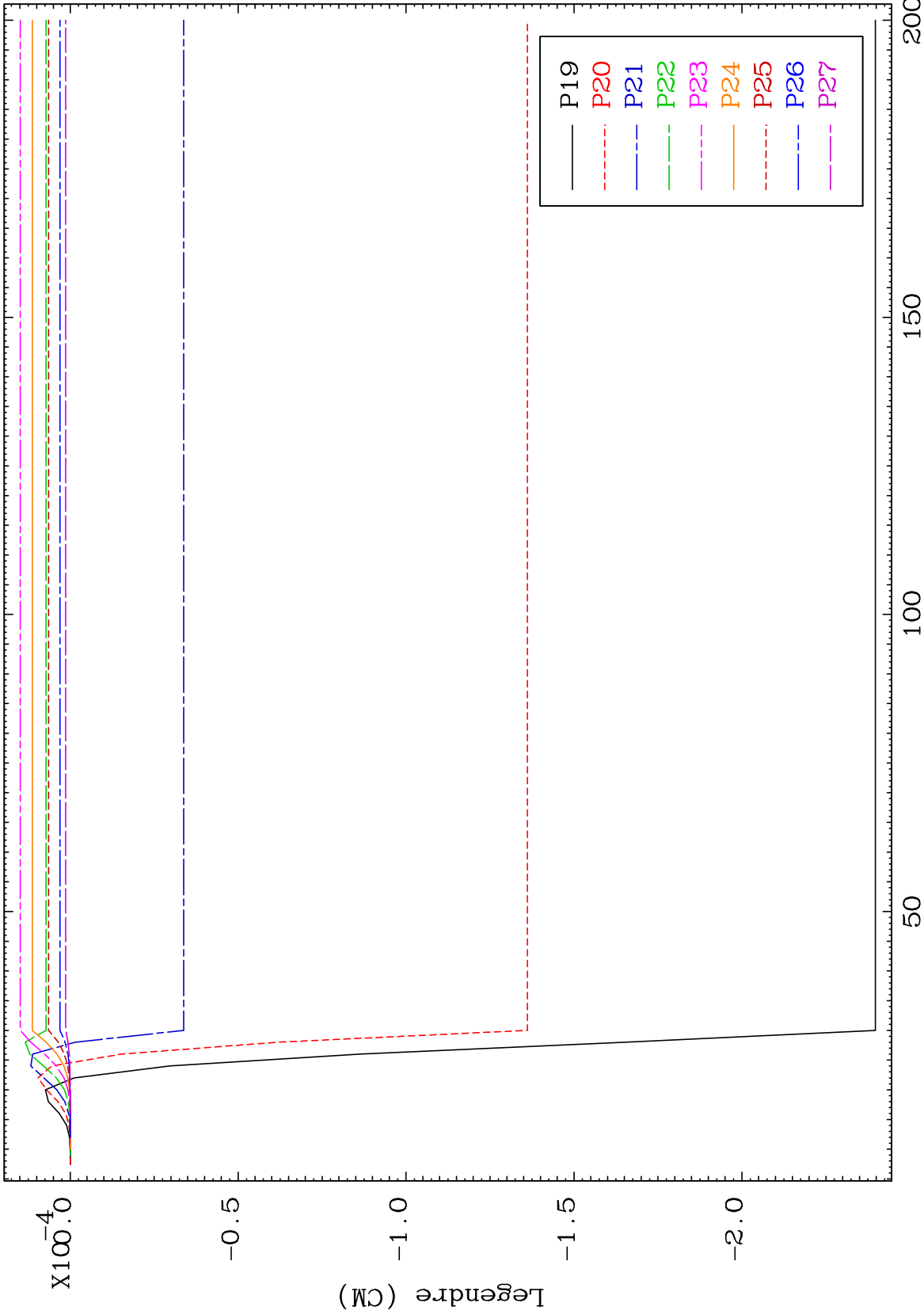
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



65

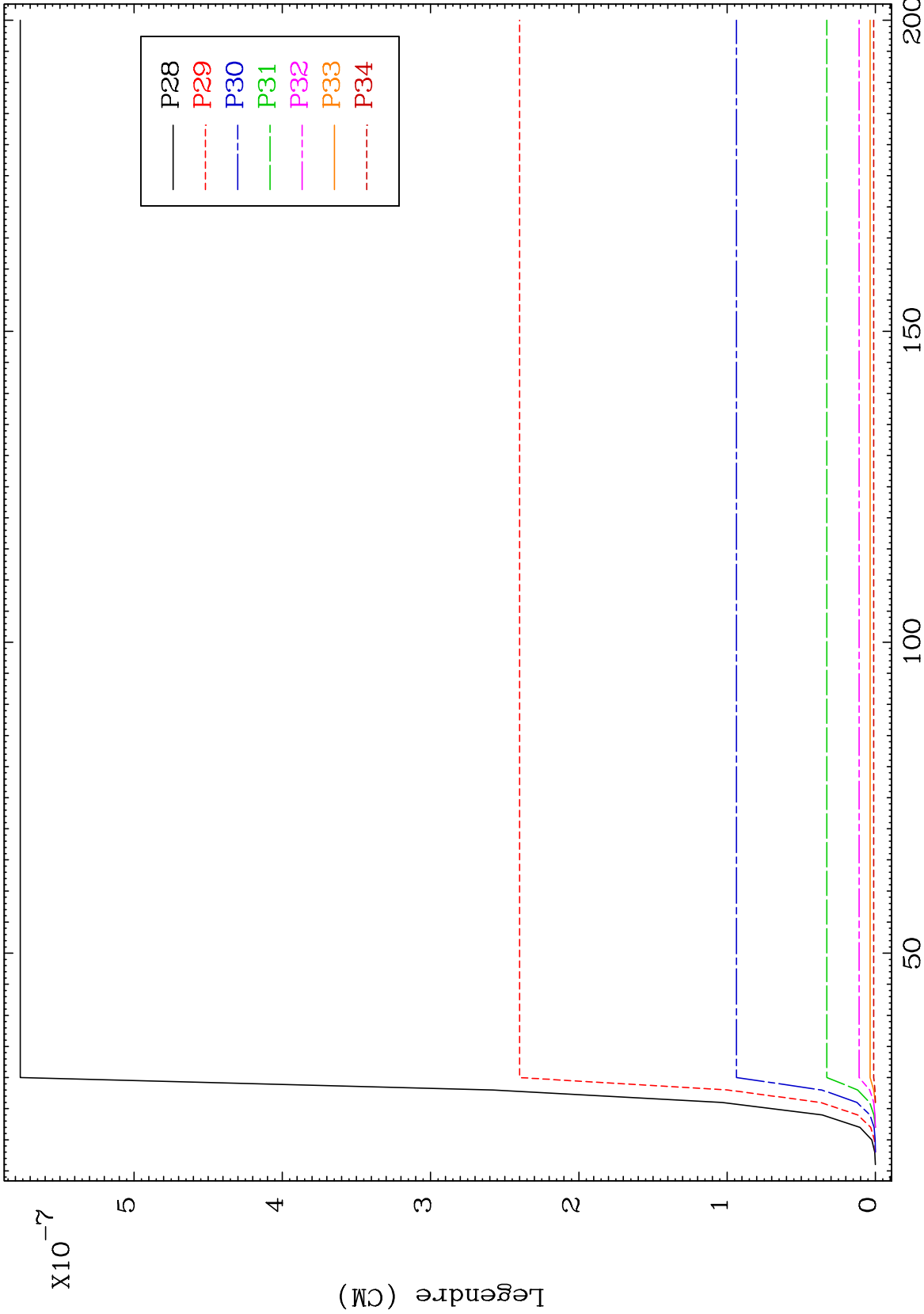
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



66

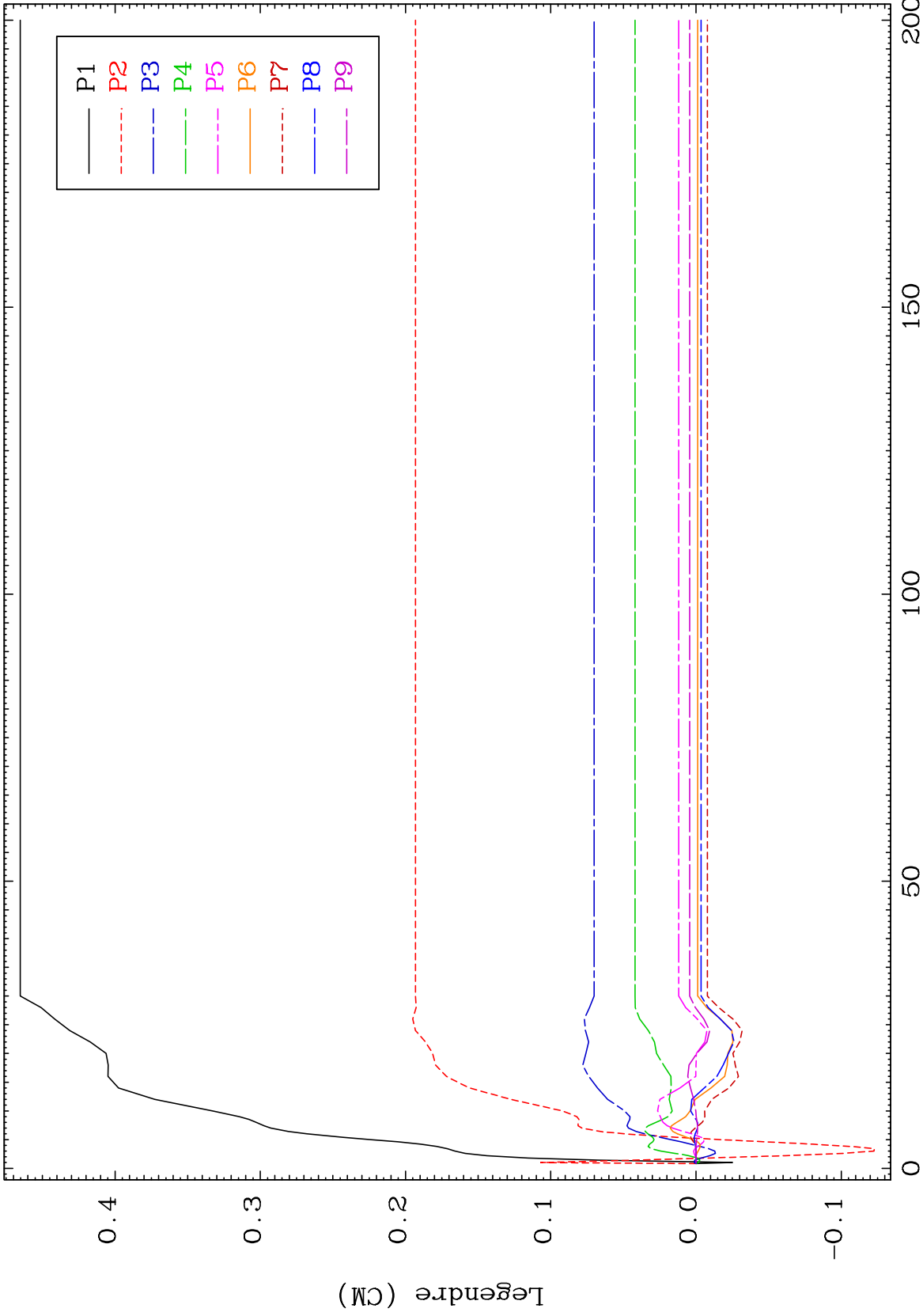
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

61-Pm-133



67

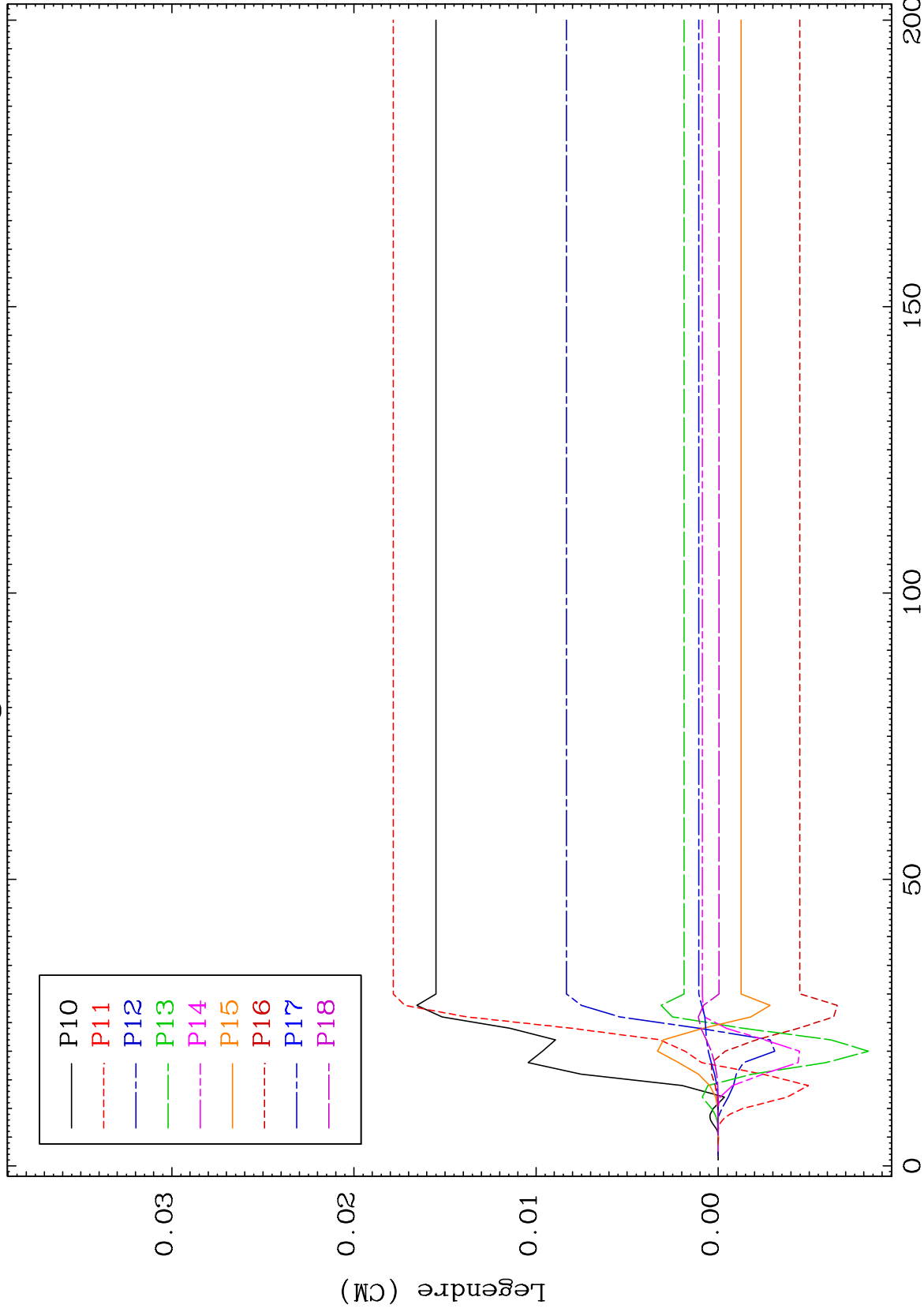
Incident Energy (MeV)

61-Pm-133

MAT 6107

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

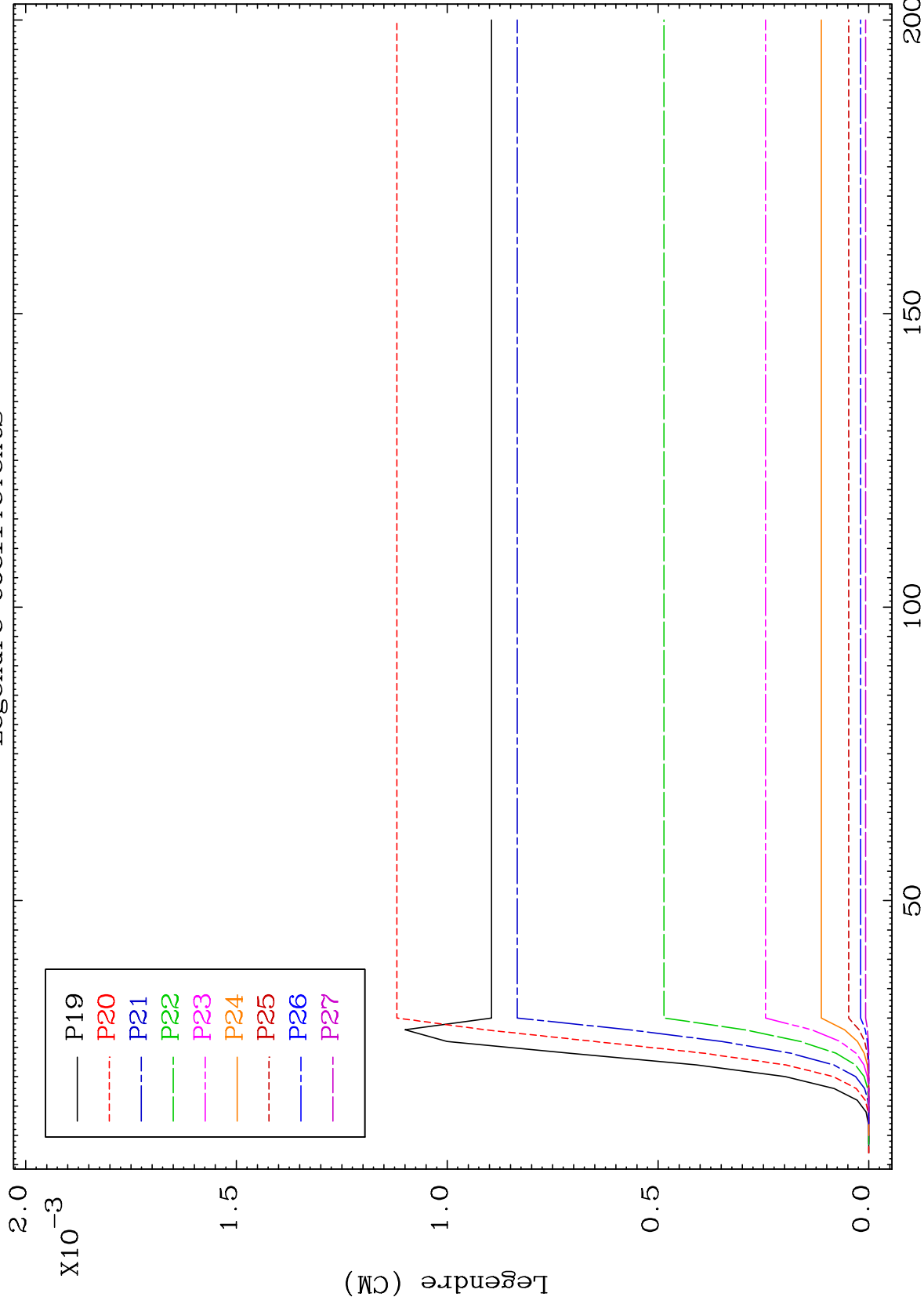
61-Pm-133



68

Incident Energy (MeV)

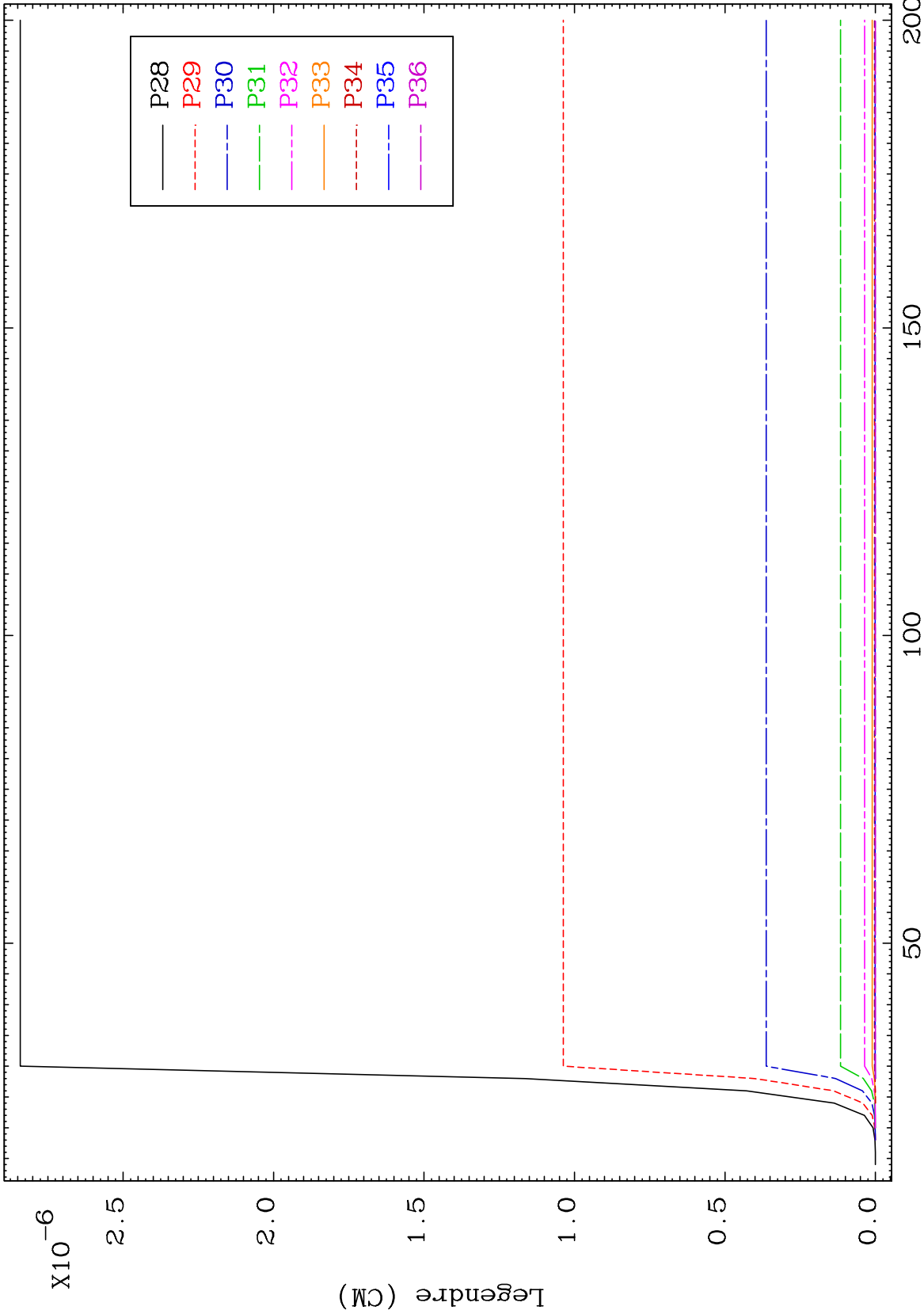
61-Pm-133



MAT 6107

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

61-Pm-133



70

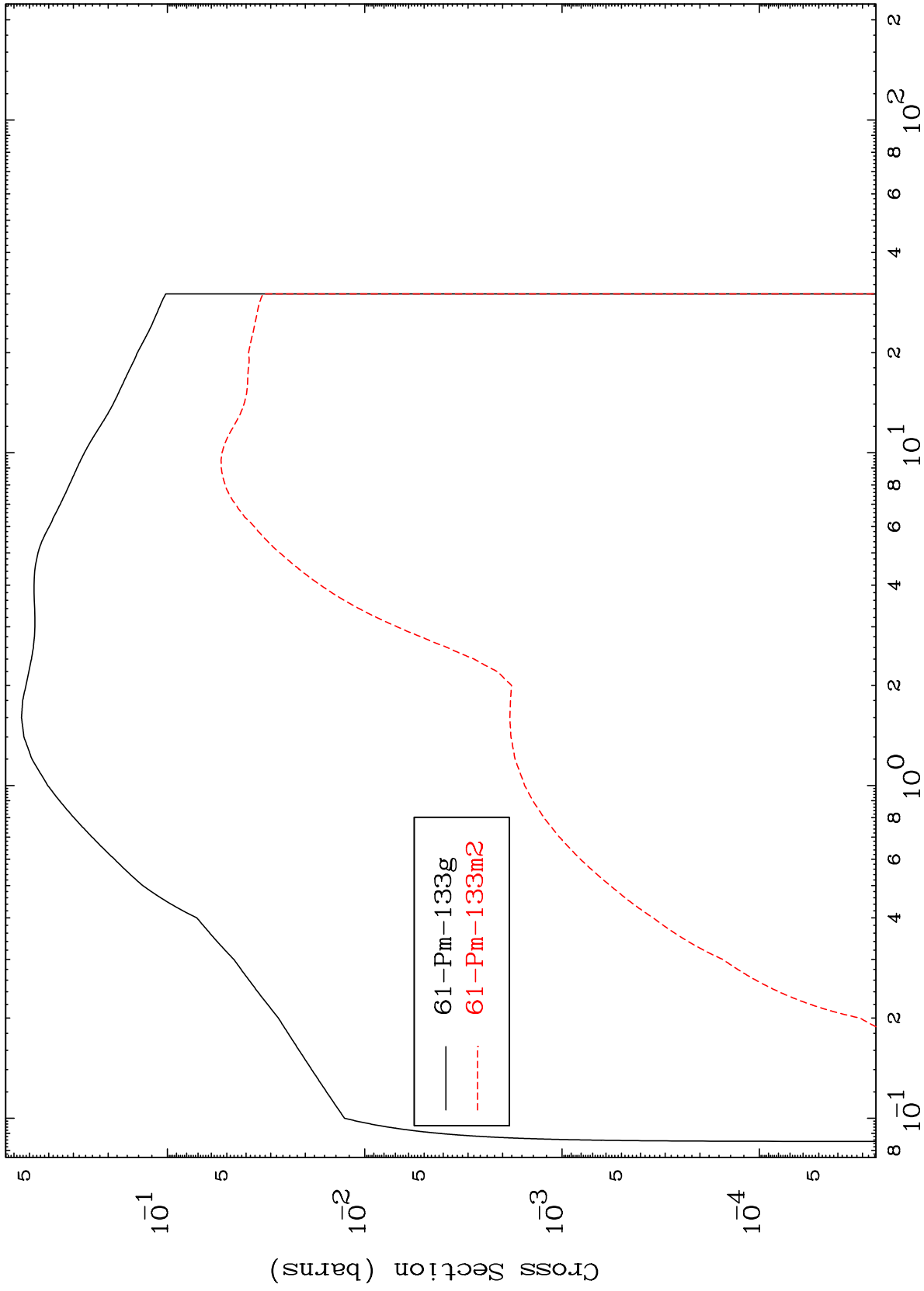
Incident Energy (MeV)

61-Pm-133

MAT 6107

Inelastic Radionuclide Production Cross Section

61-Pm-133



71

Incident Energy (MeV)

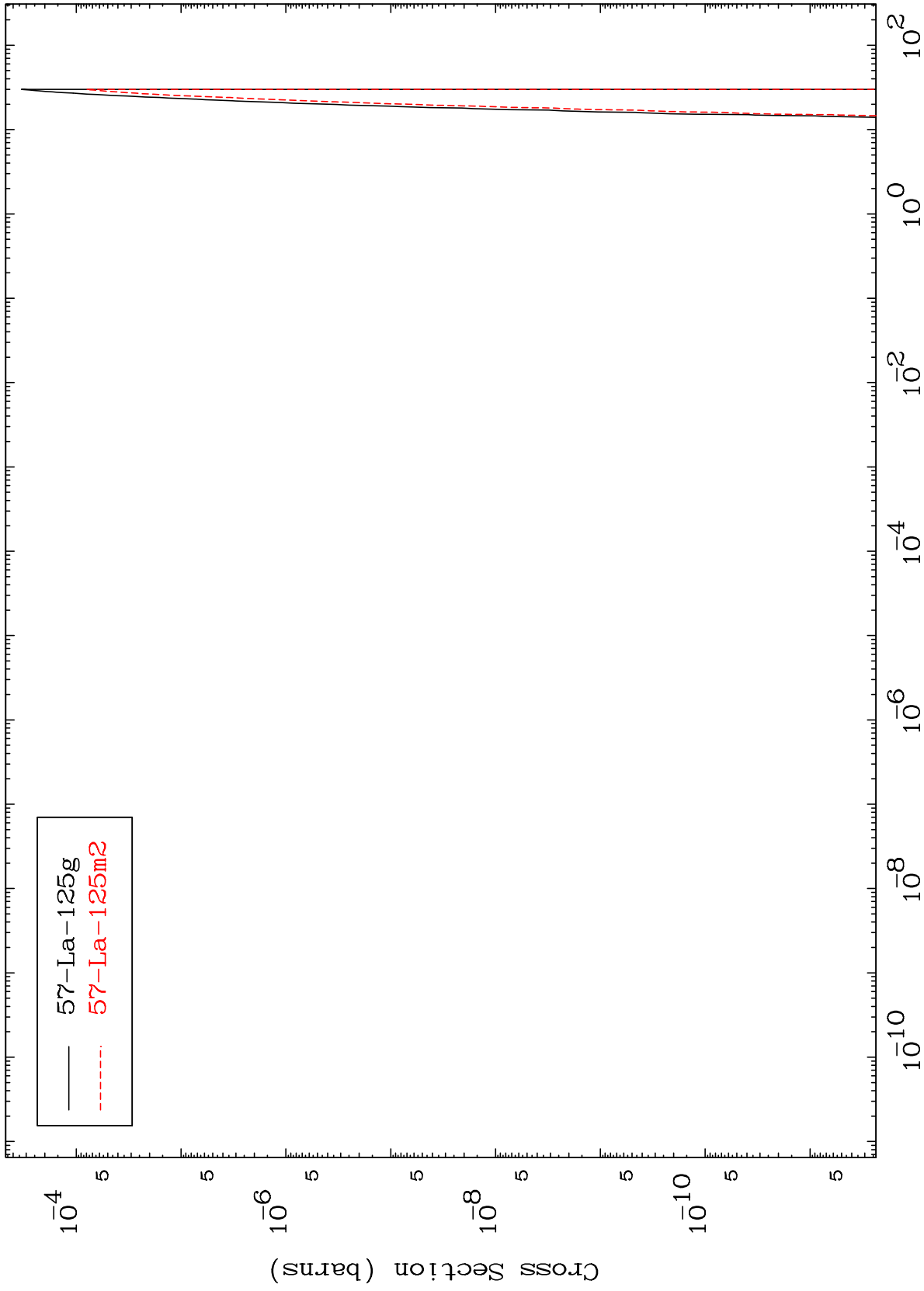
61-Pm-133

MAT 6107

(n,n') 2 α

61-Pm-133

Radionuclide Production Cross Section



72

Incident Energy (MeV)

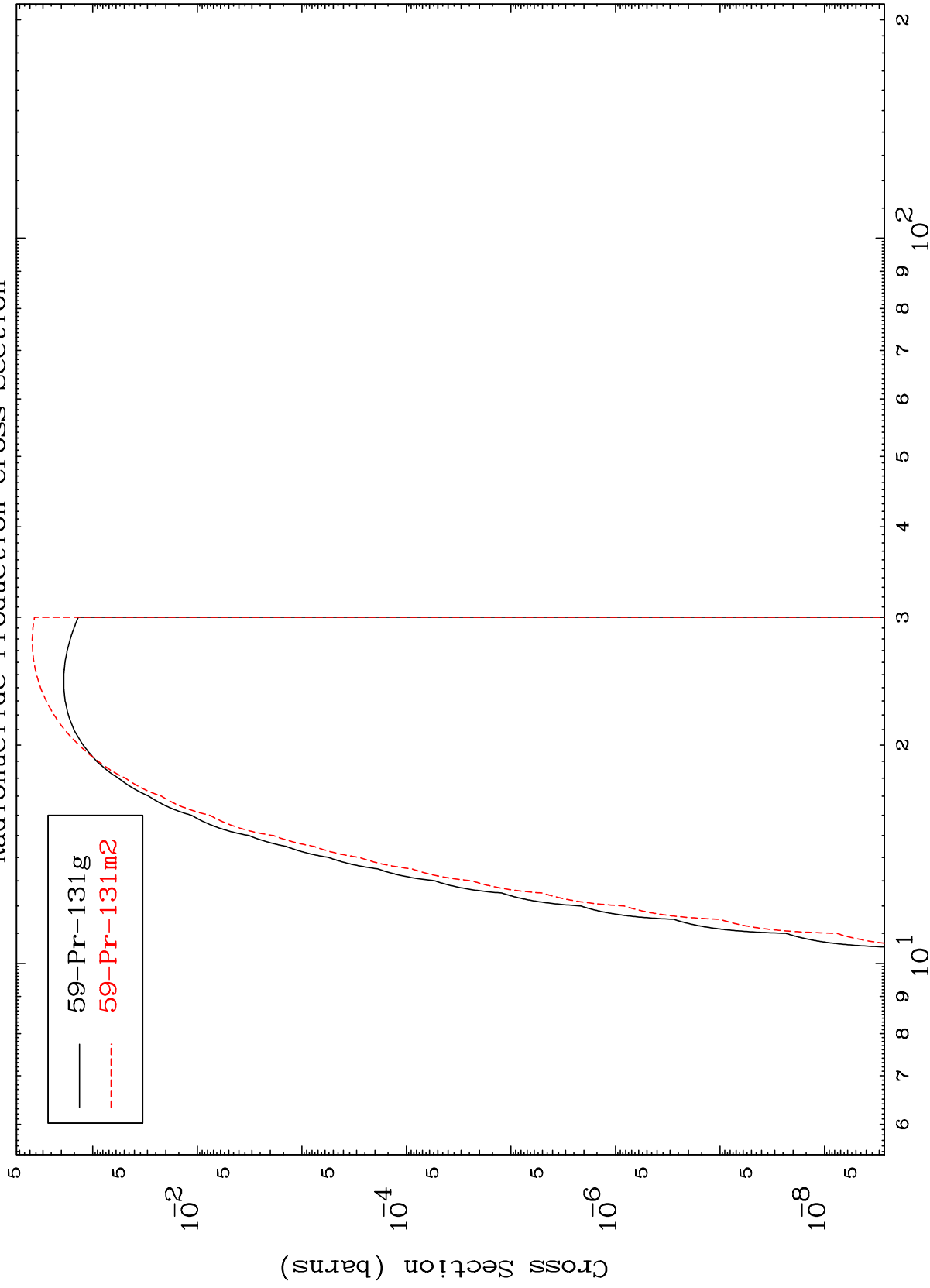
61-Pm-133

MAT 6107

(n,2n) p

61-Pm-133

Radionuclide Production Cross Section



73

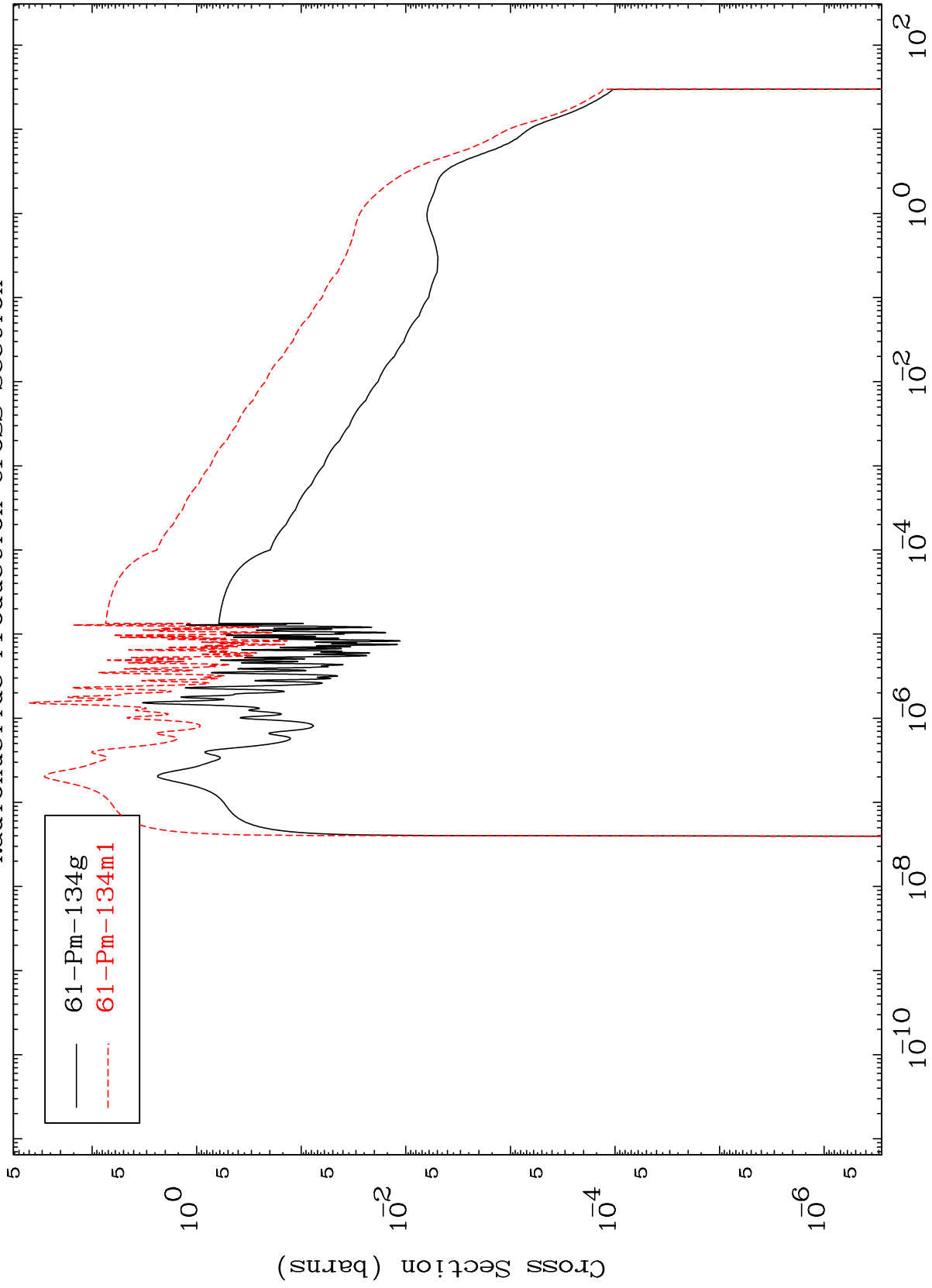
Incident Energy (MeV)

61-Pm-133

MAT 6107

61-Pm-133

Radionuclide Production Cross Section (n,γ)



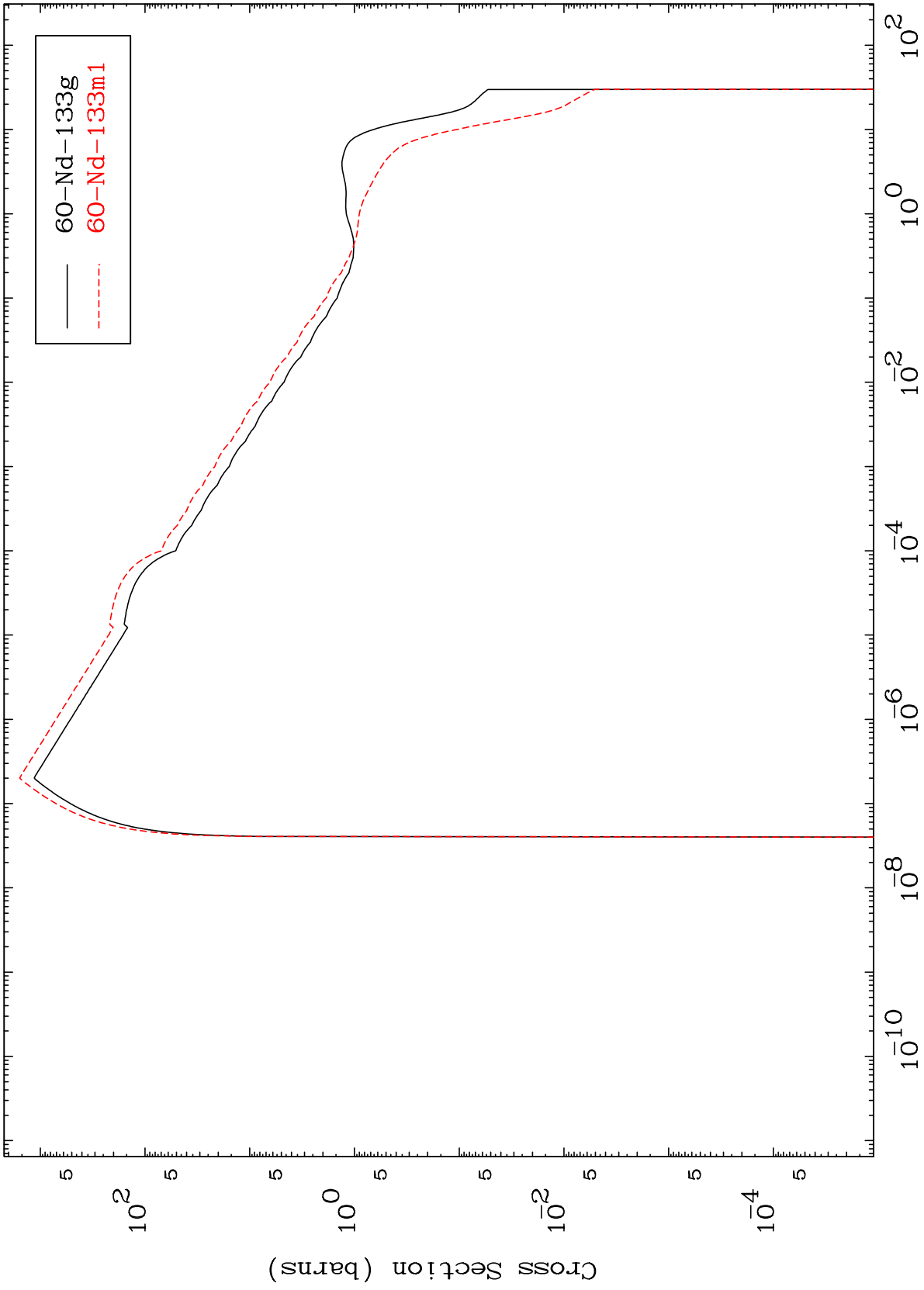
74

61-Pm-133

MAT 6107

61-Pm-133

(n,p)
Radionuclide Production Cross Section



75

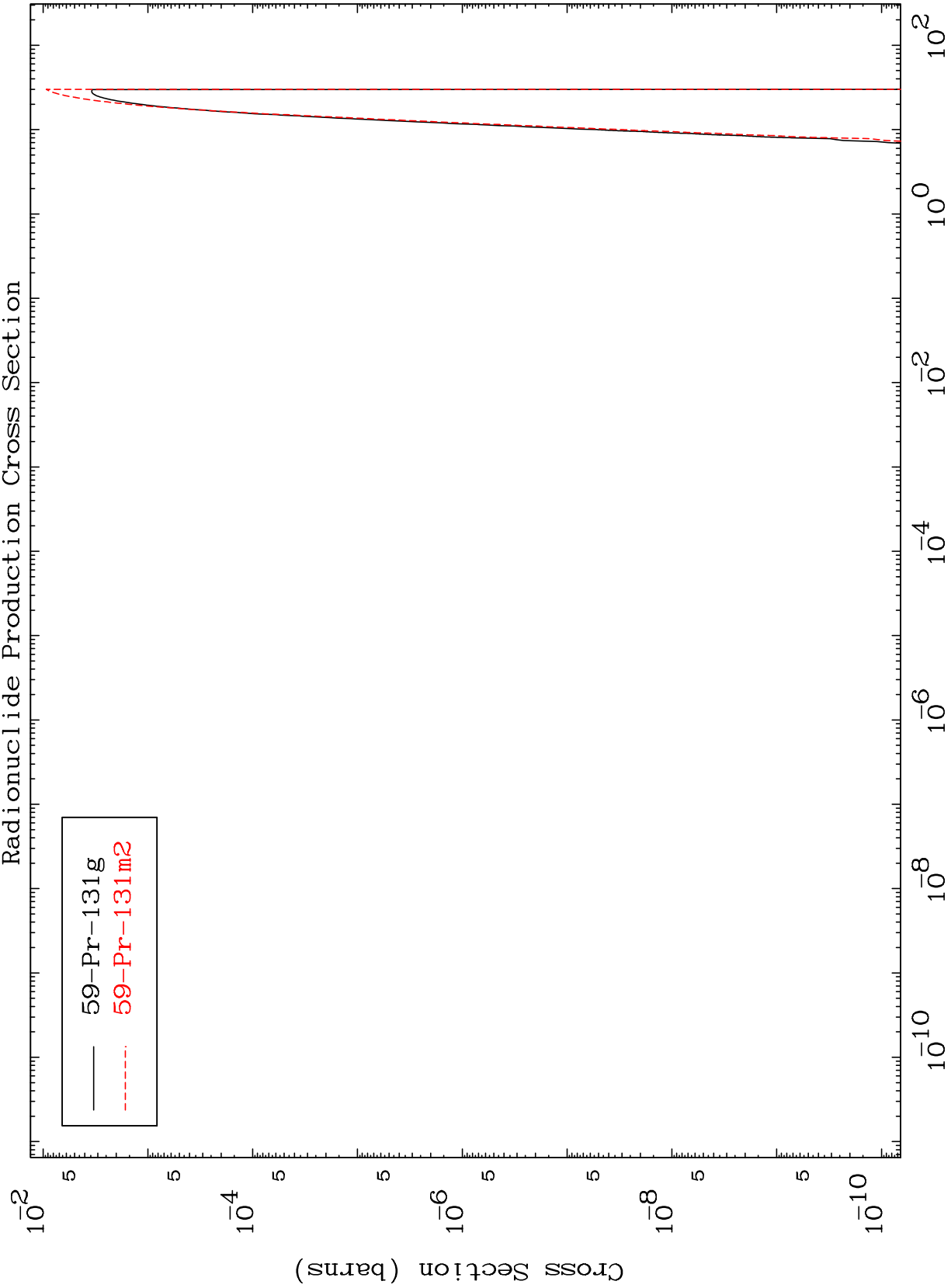
61-Pm-133

MAT 6107

(n, He-3)

61-Pm-133

Radionuclide Production Cross Section



76

Incident Energy (MeV)

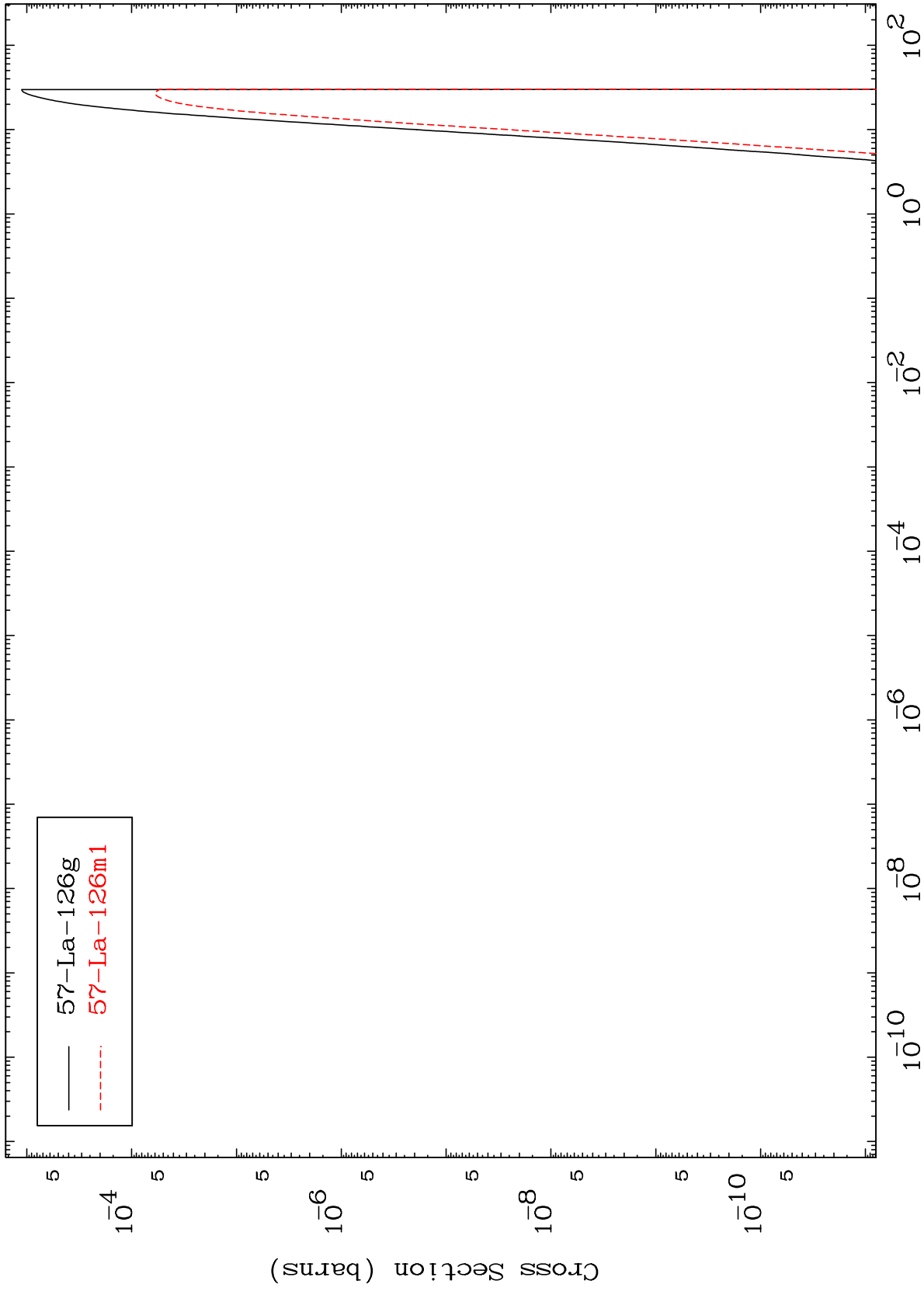
61-Pm-133

MAT 6107

(n,2α)

61-Pm-133

Radionuclide Production Cross Section



77

Incident Energy (MeV)

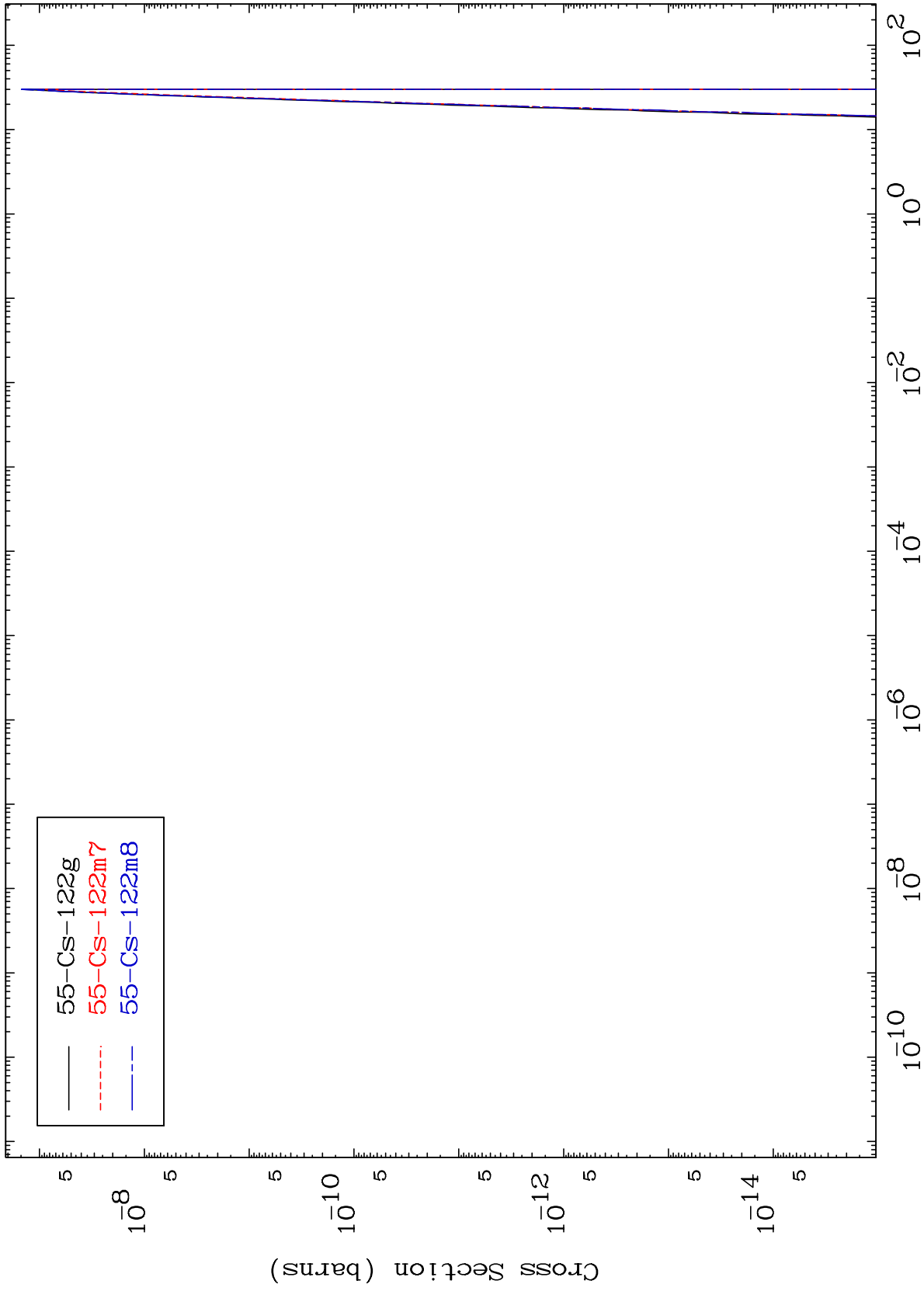
61-Pm-133

MAT 6107

(n,3α)

61-Pm-133

Radionuclide Production Cross Section



78

Incident Energy (MeV)

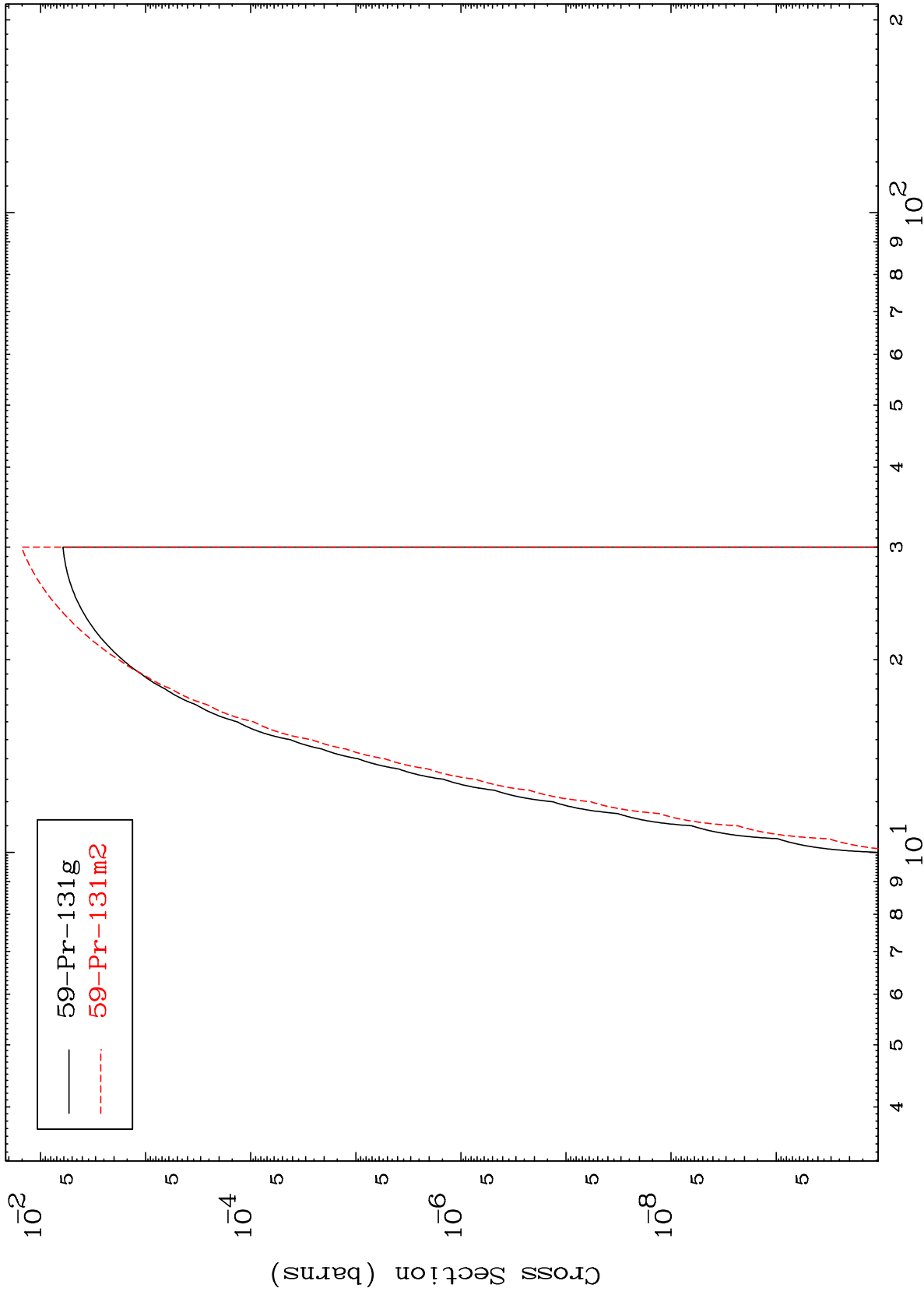
61-Pm-133

MAT 6107

(n,p) d

61-Pm-133

Radionuclide Production Cross Section



79

Incident Energy (MeV)

61-Pm-133