

Program EVALPLOT  
(Version 2018-1)

by

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(Present Contact Information)

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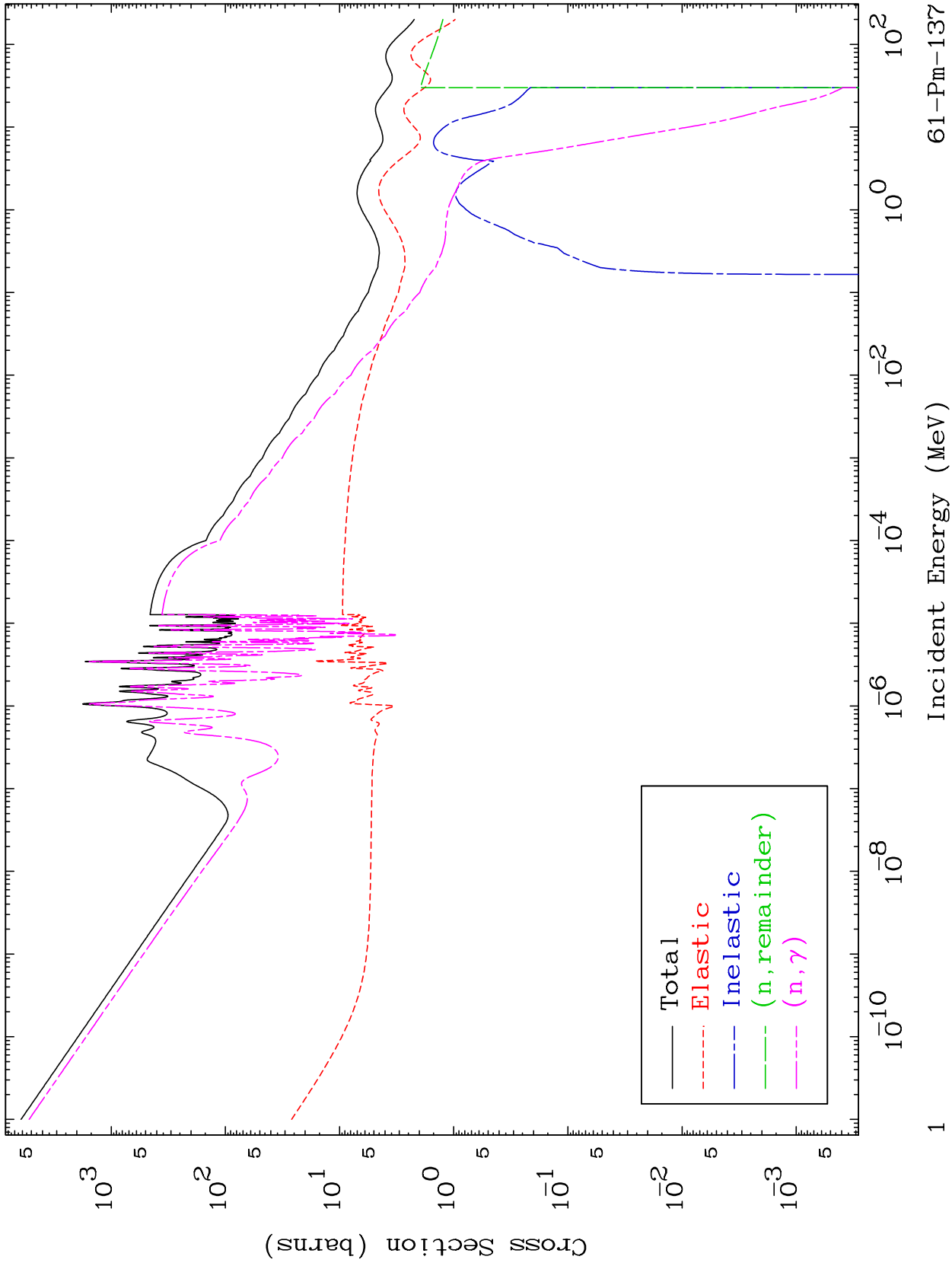
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6119

Major  
293 Kelvin Cross Sections

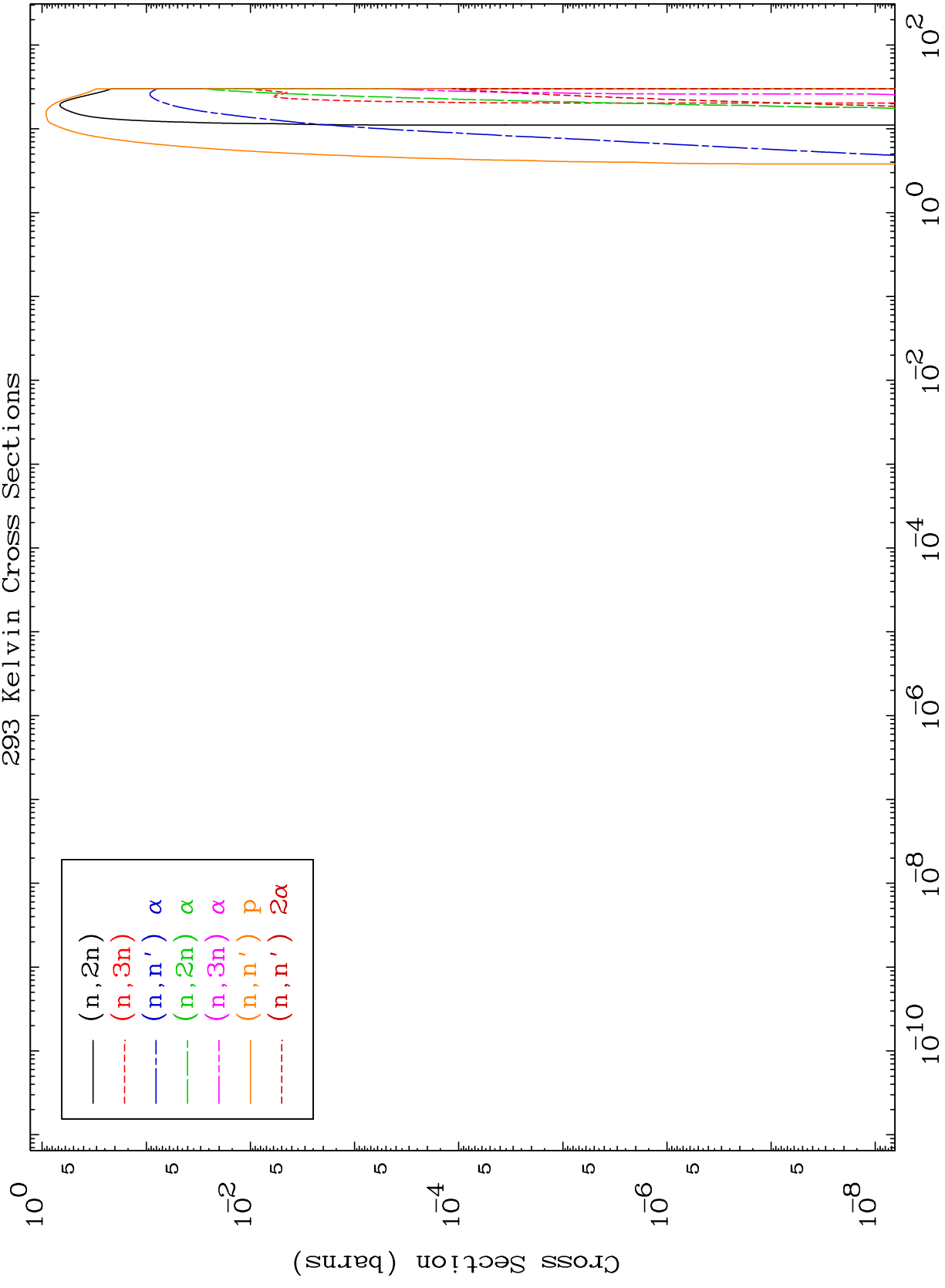
61-Pm-137



MAT 6119

Neutron Production  
293 Kelvin Cross Sections

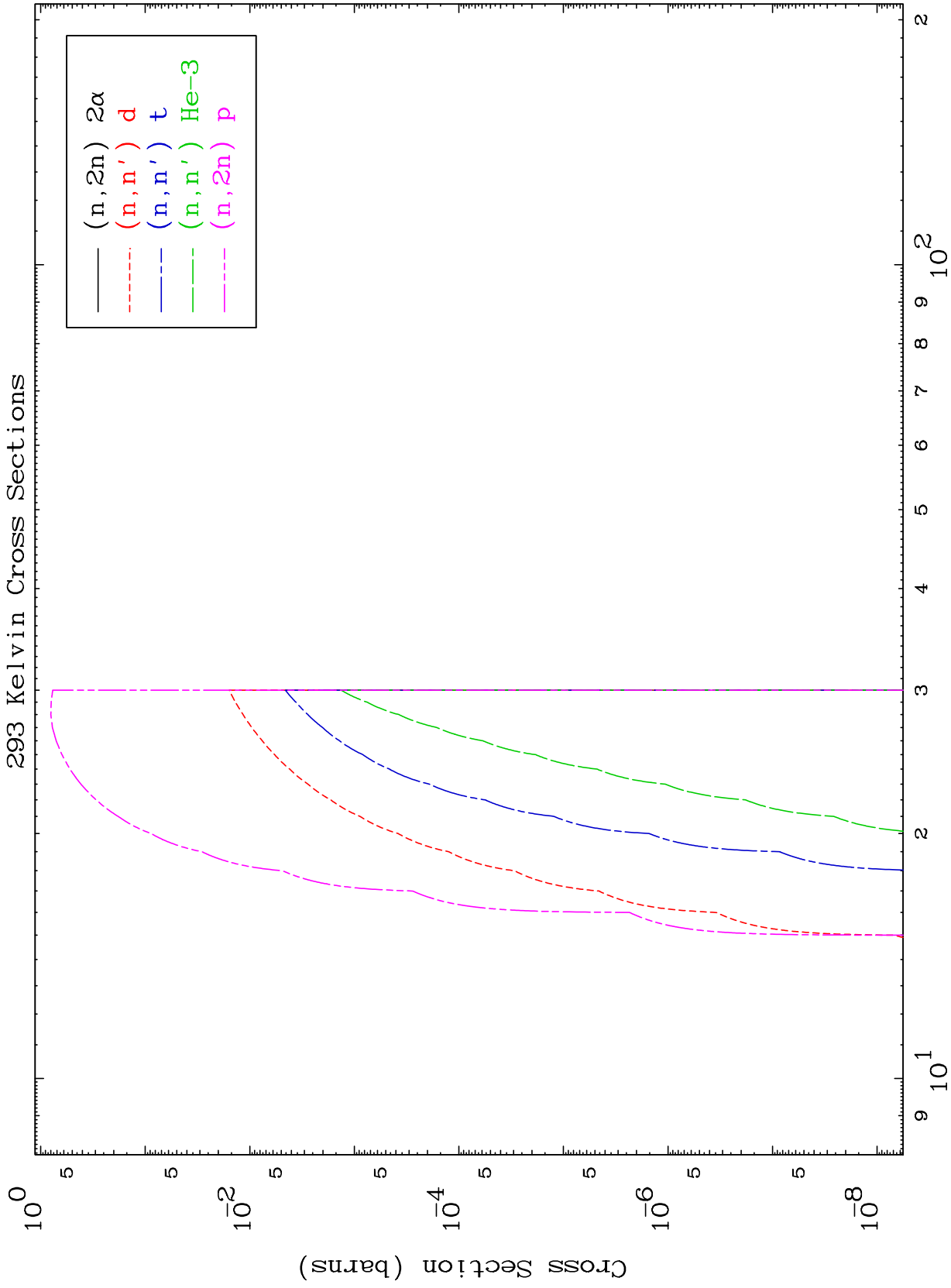
61-Pm-137



MAT 6119

Neutron Production  
293 Kelvin Cross Sections

61-Pm-137



3

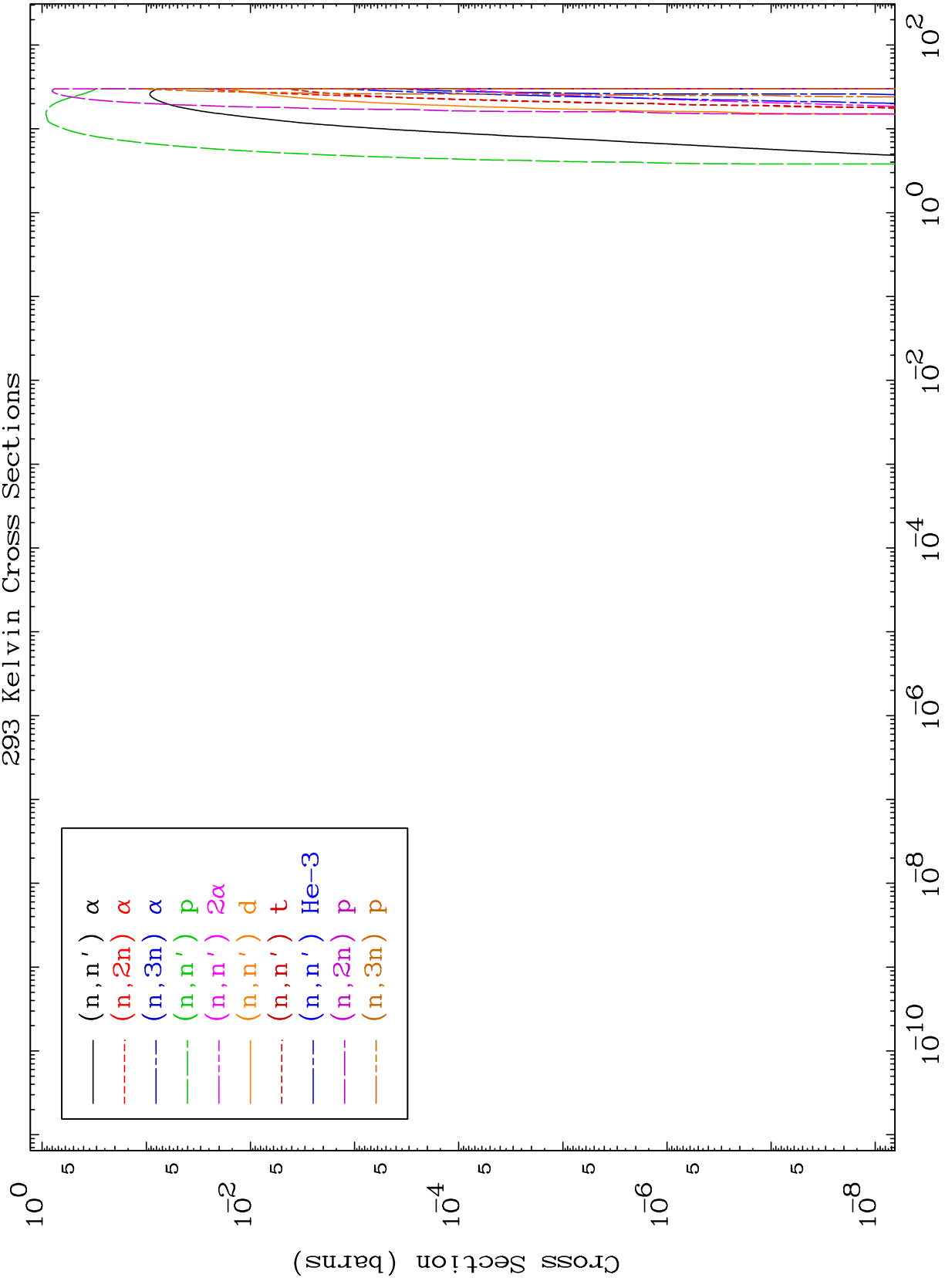
Incident Energy (MeV)

61-Pm-137

MAT 6119

Charged Particle  
293 Kelvin Cross Sections

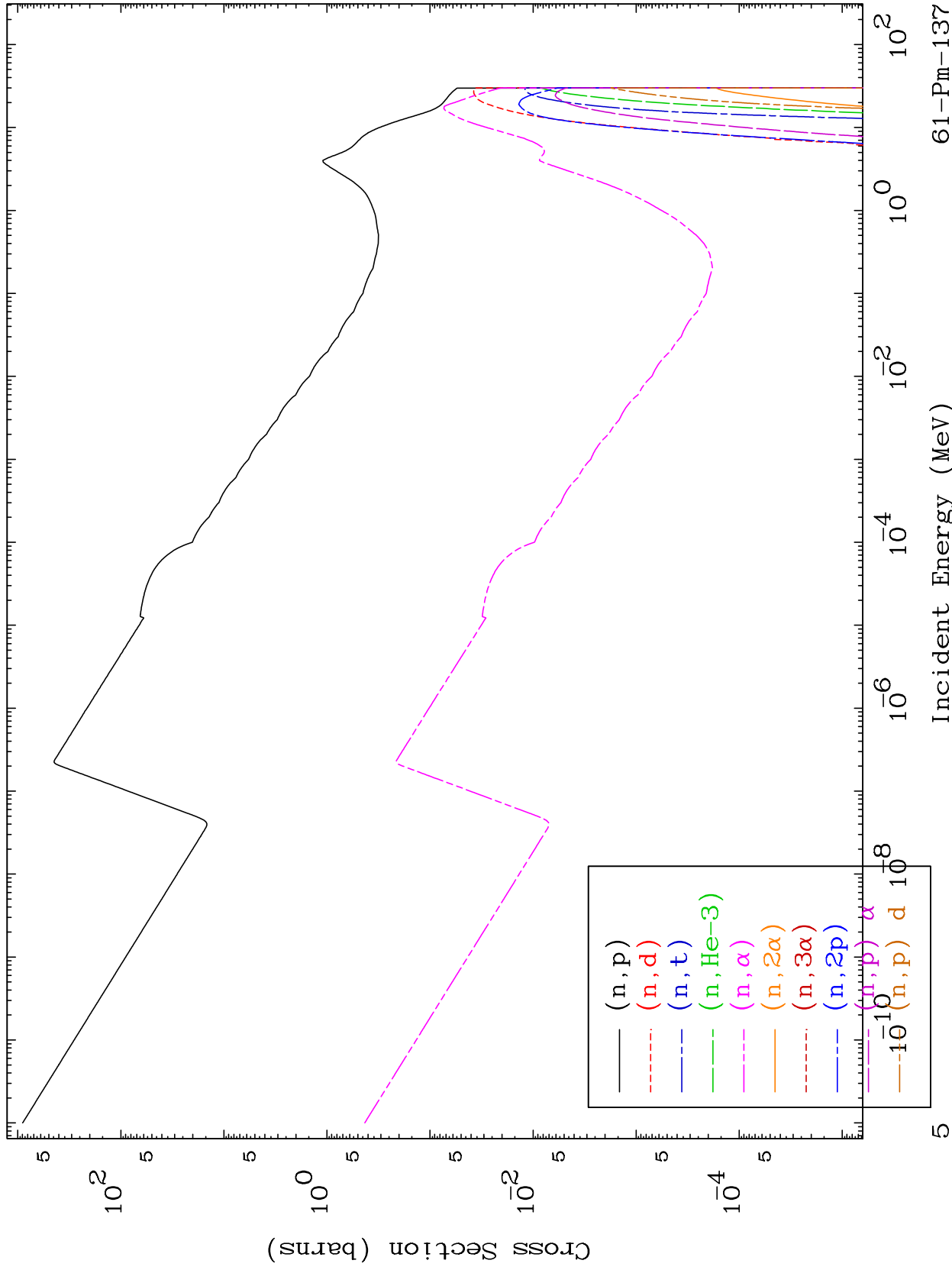
61-Pm-137



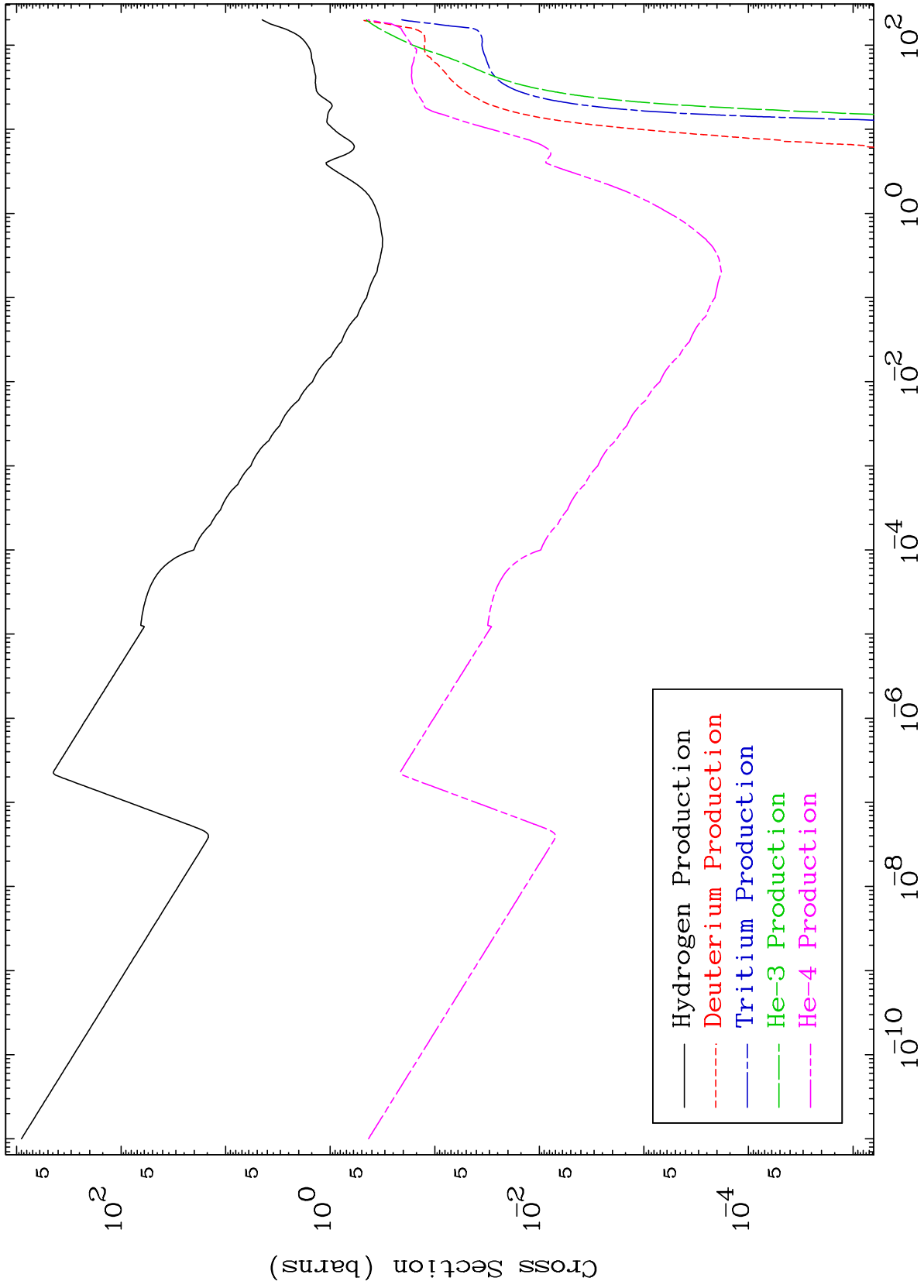
MAT 6119

Charged Particle  
293 Kelvin Cross Sections

61-Pm-137



61-Pm-137

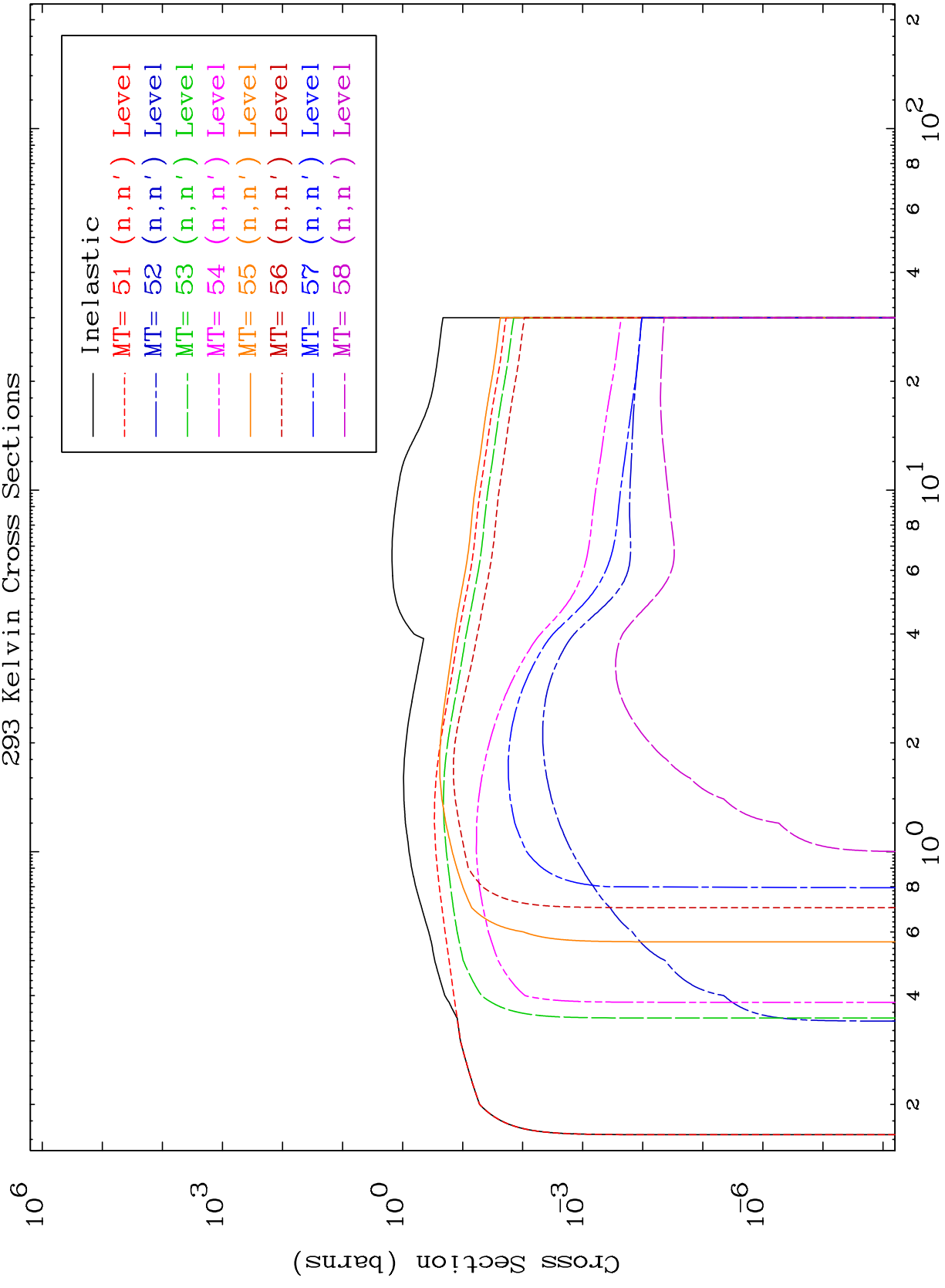


MAT 6119

(n,n') Level

61-Pm-137

293 Kelvin Cross Sections



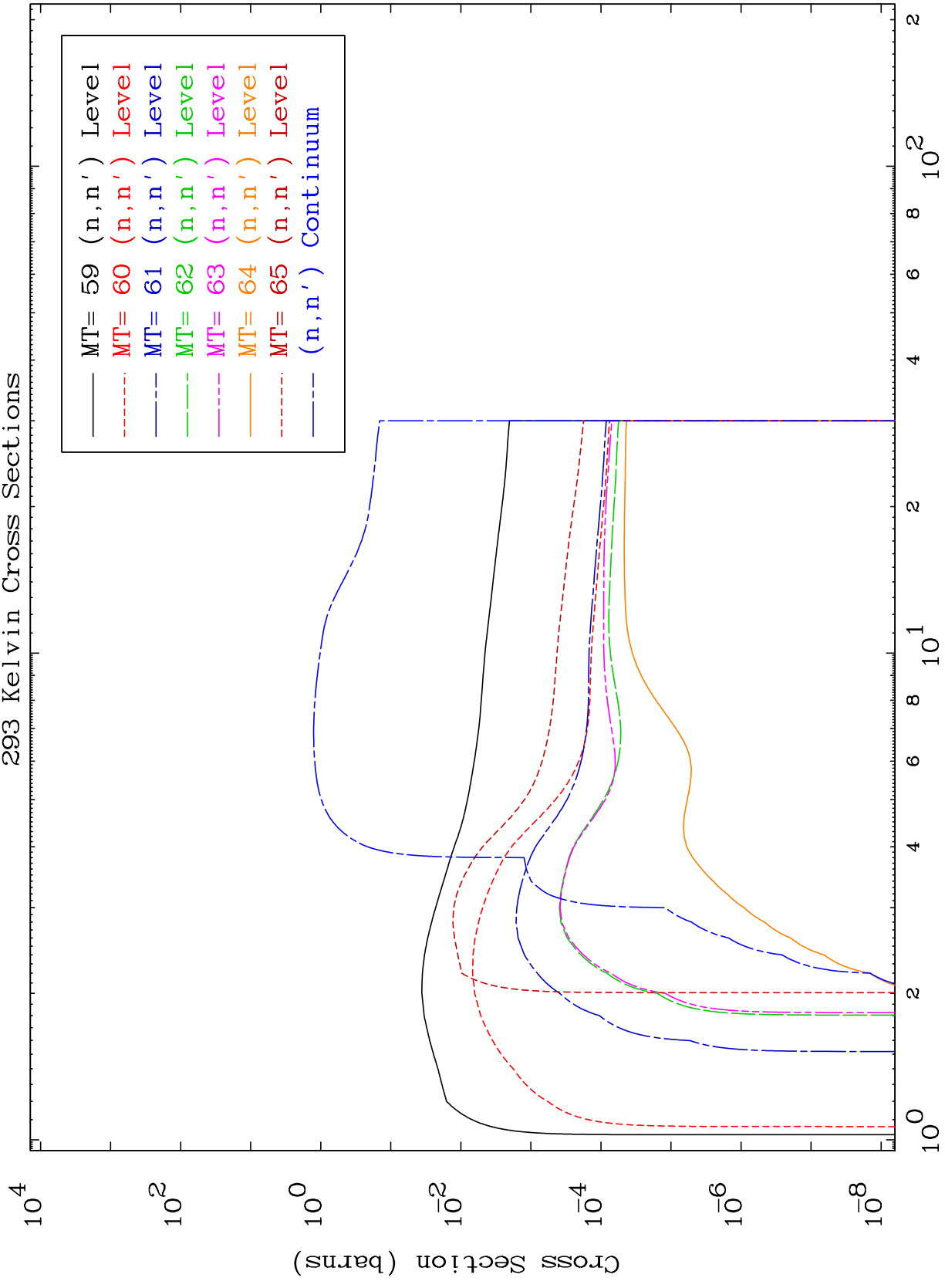


MAT 6119

(n,n') Level

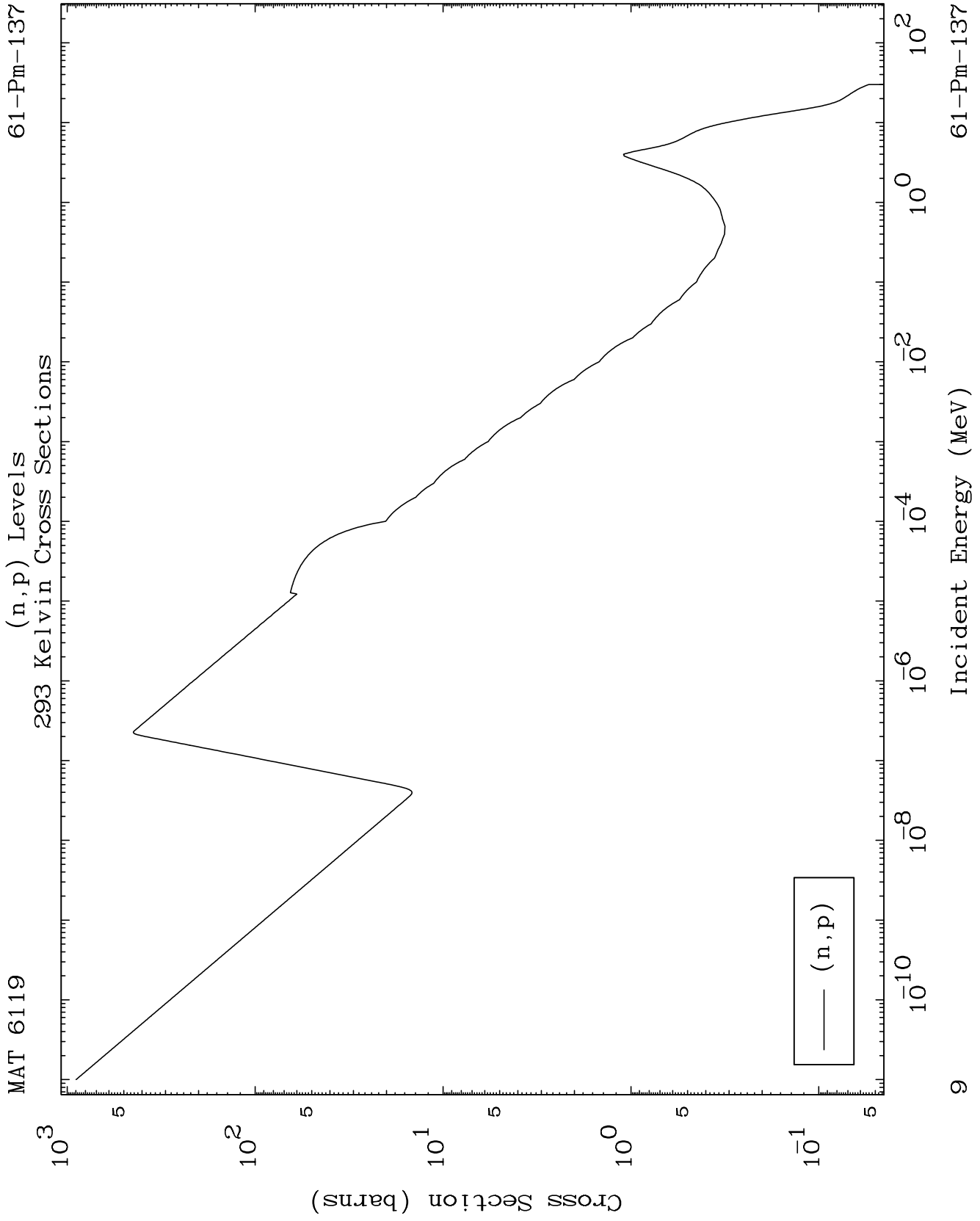
61-Pm-137

293 Kelvin Cross Sections



Incident Energy (MeV)

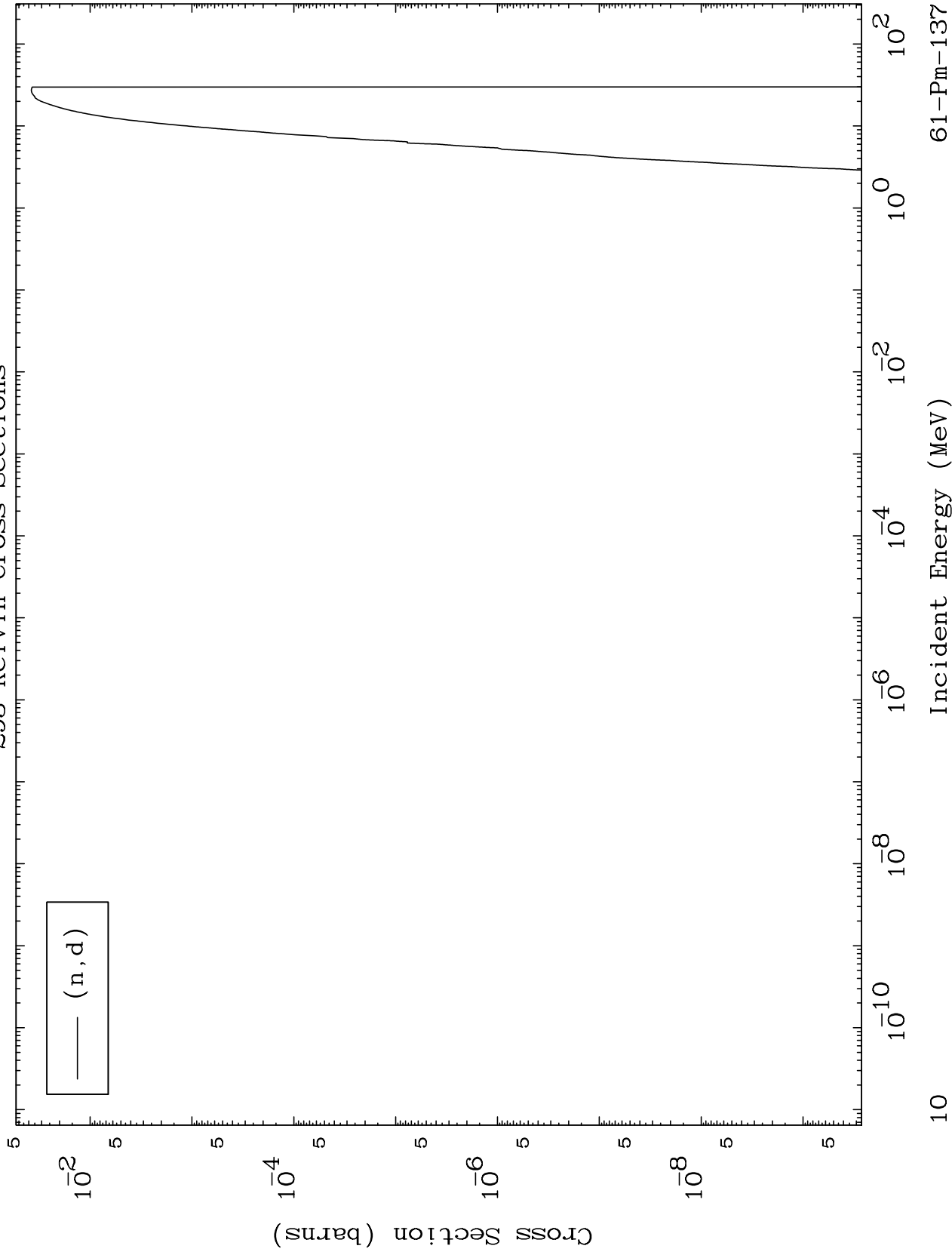
61-Pm-137



MAT 6119

(n,d) Levels  
293 Kelvin Cross Sections

61-Pm-137

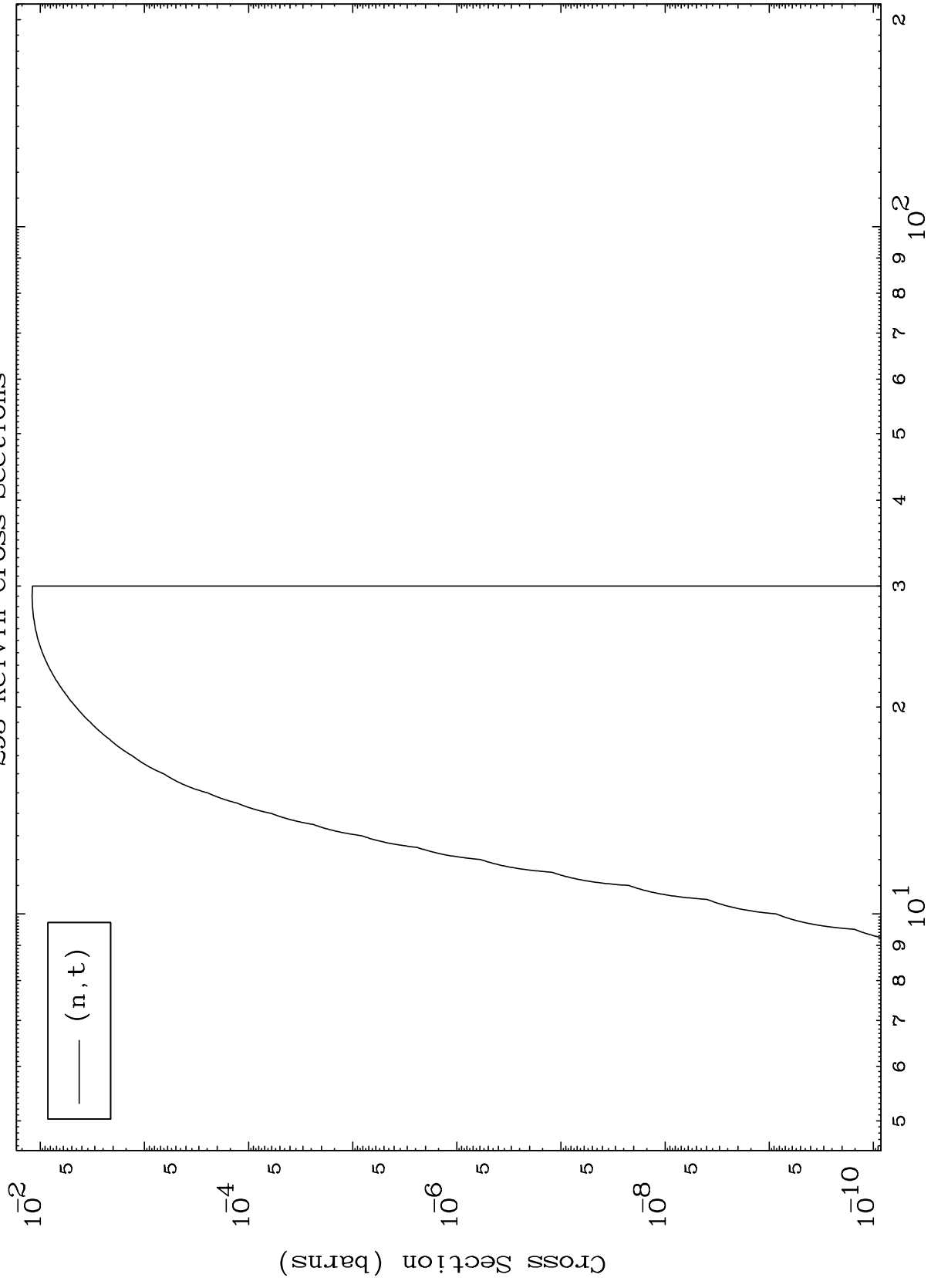


61-Pm-137

MAT 6119

61-Pm-137

(n,t) Levels  
293 Kelvin Cross Sections



11

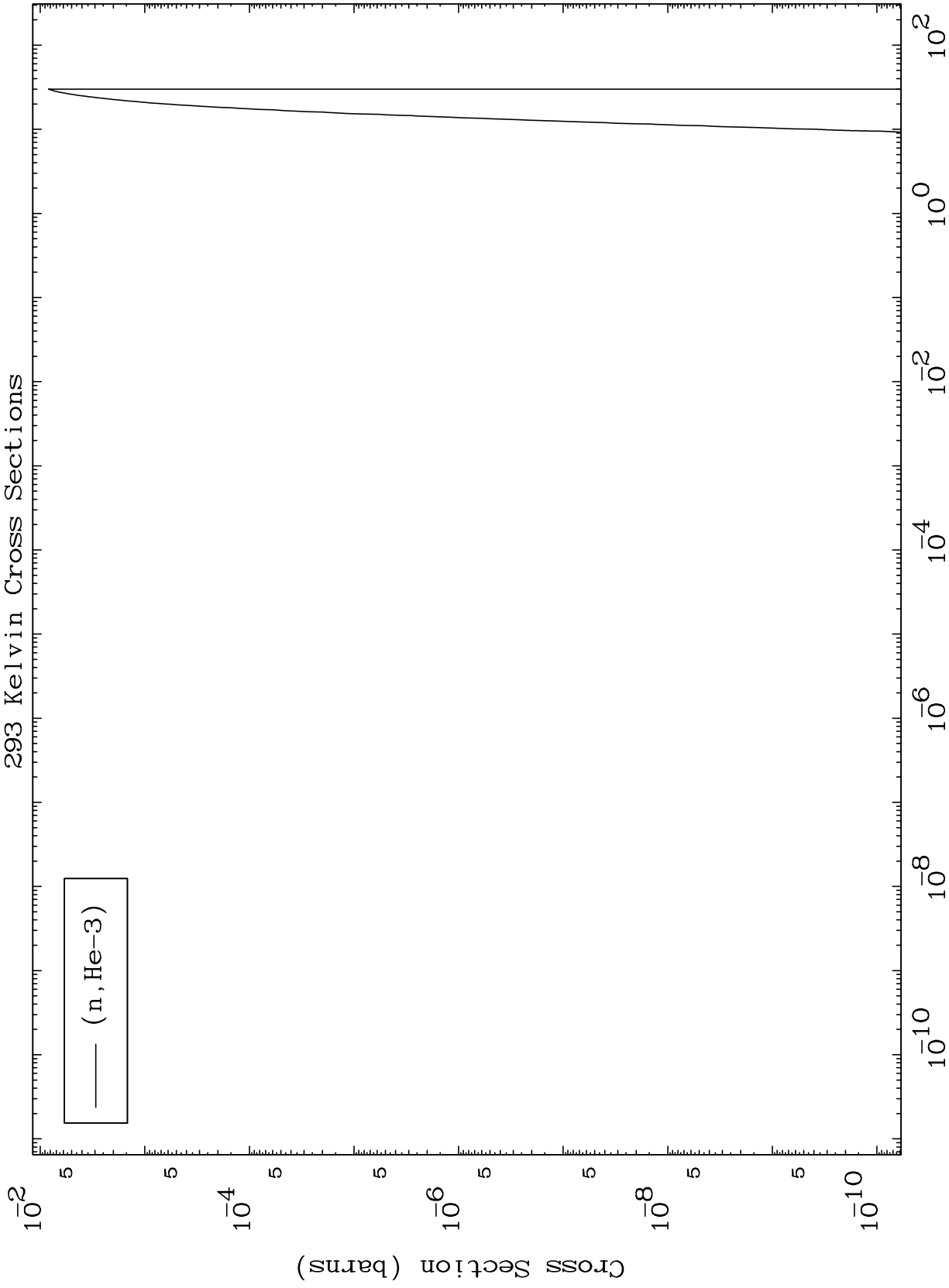
Incident Energy (MeV)

61-Pm-137

MAT 6119

(n,He3) Levels  
293 Kelvin Cross Sections

61-Pm-137



12

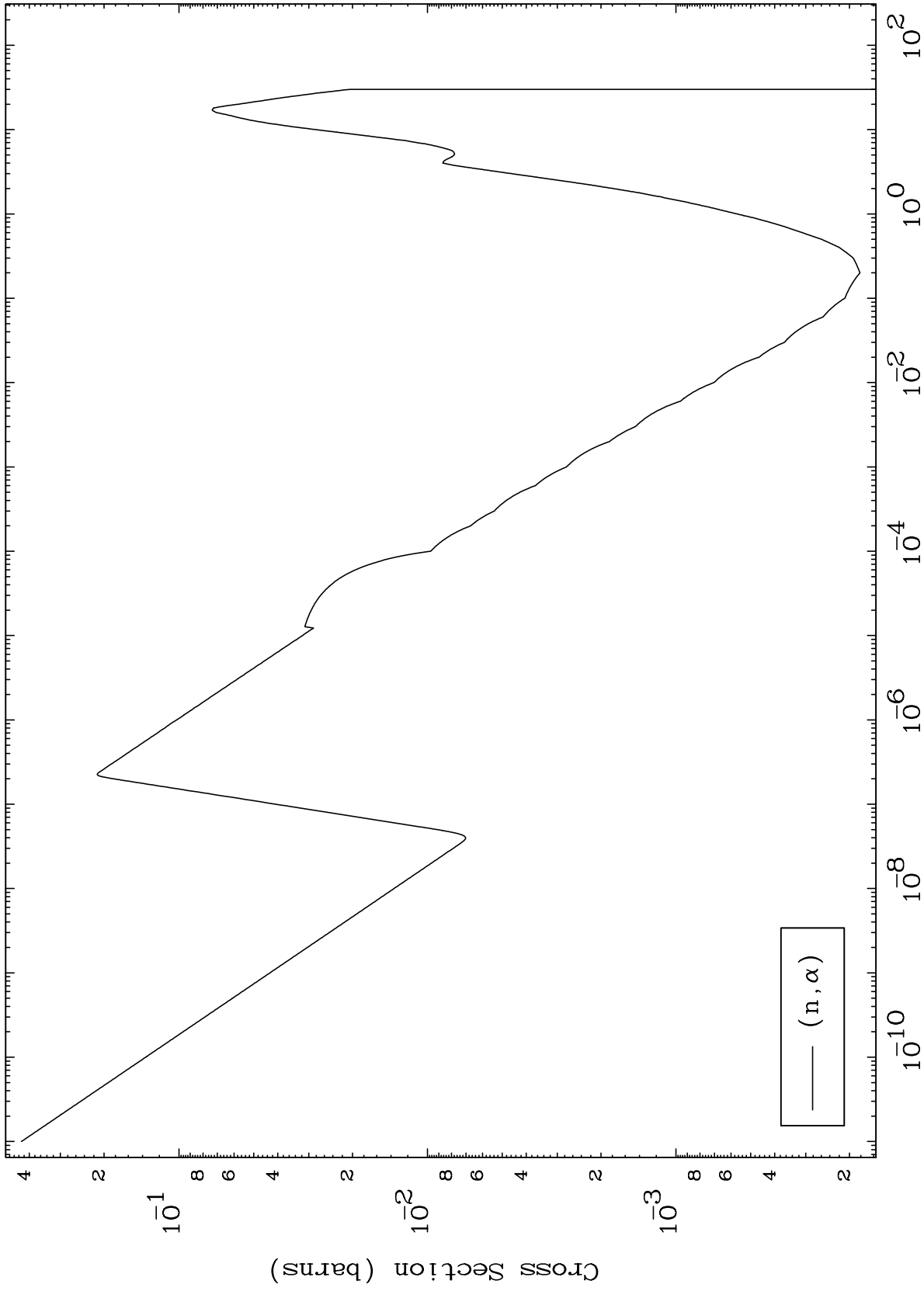
Incident Energy (MeV)

61-Pm-137

MAT 6119

(n,α) Levels  
293 Kelvin Cross Sections

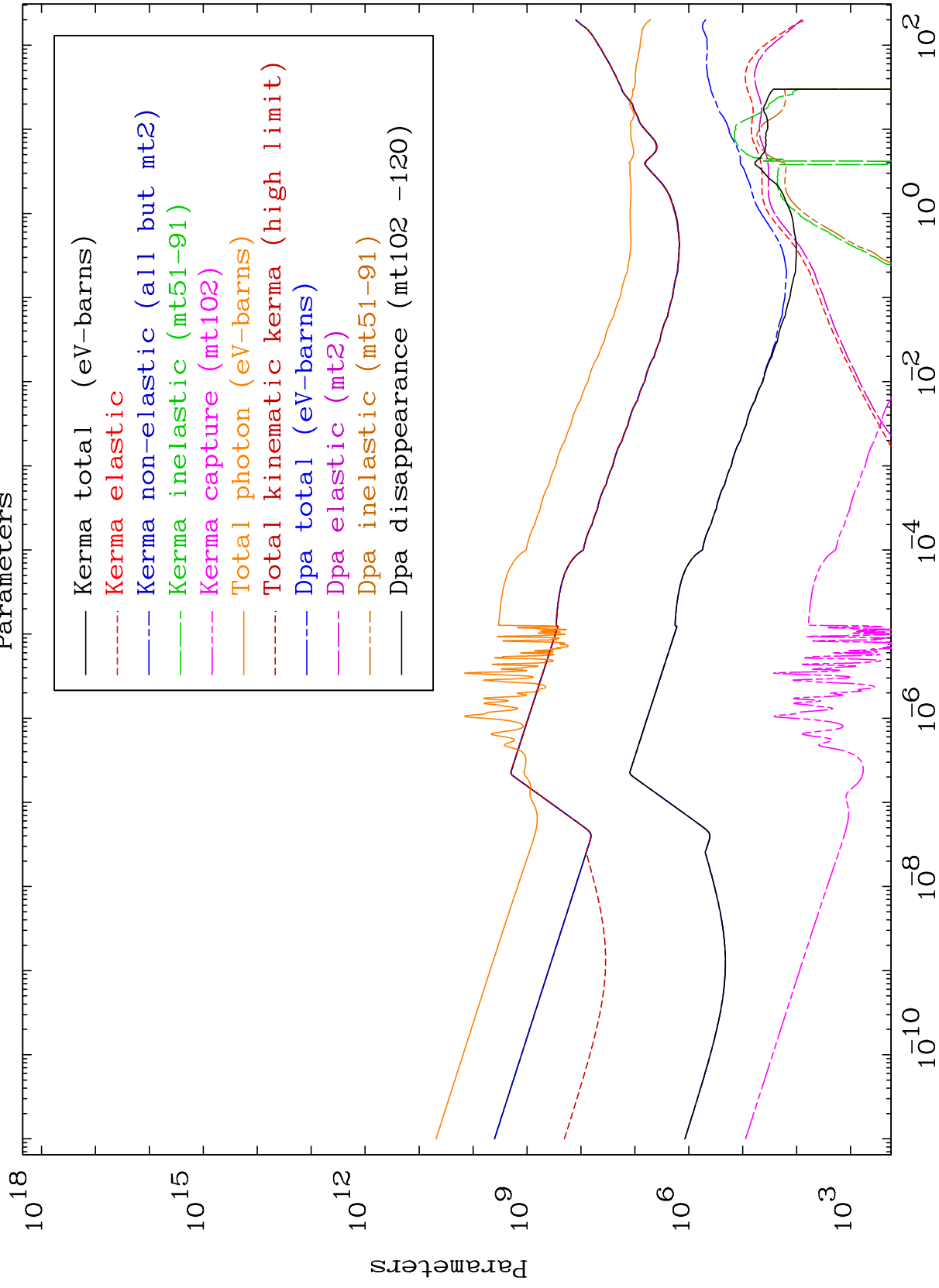
61-Pm-137



13

Incident Energy (MeV)

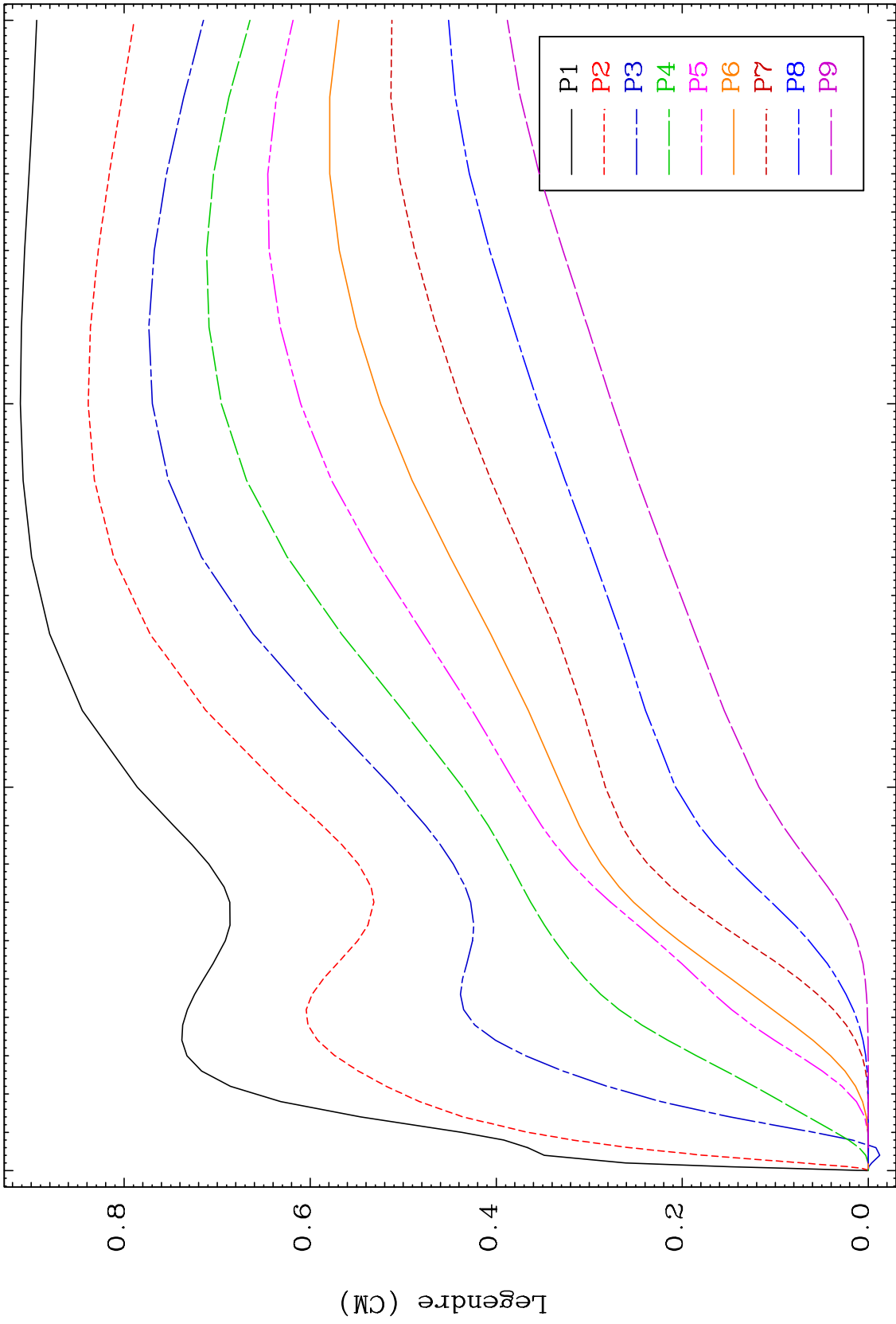
61-Pm-137



MAT 6119

Elastic Legendre Coefficients

61-Pm-137



15

Incident Energy (MeV)

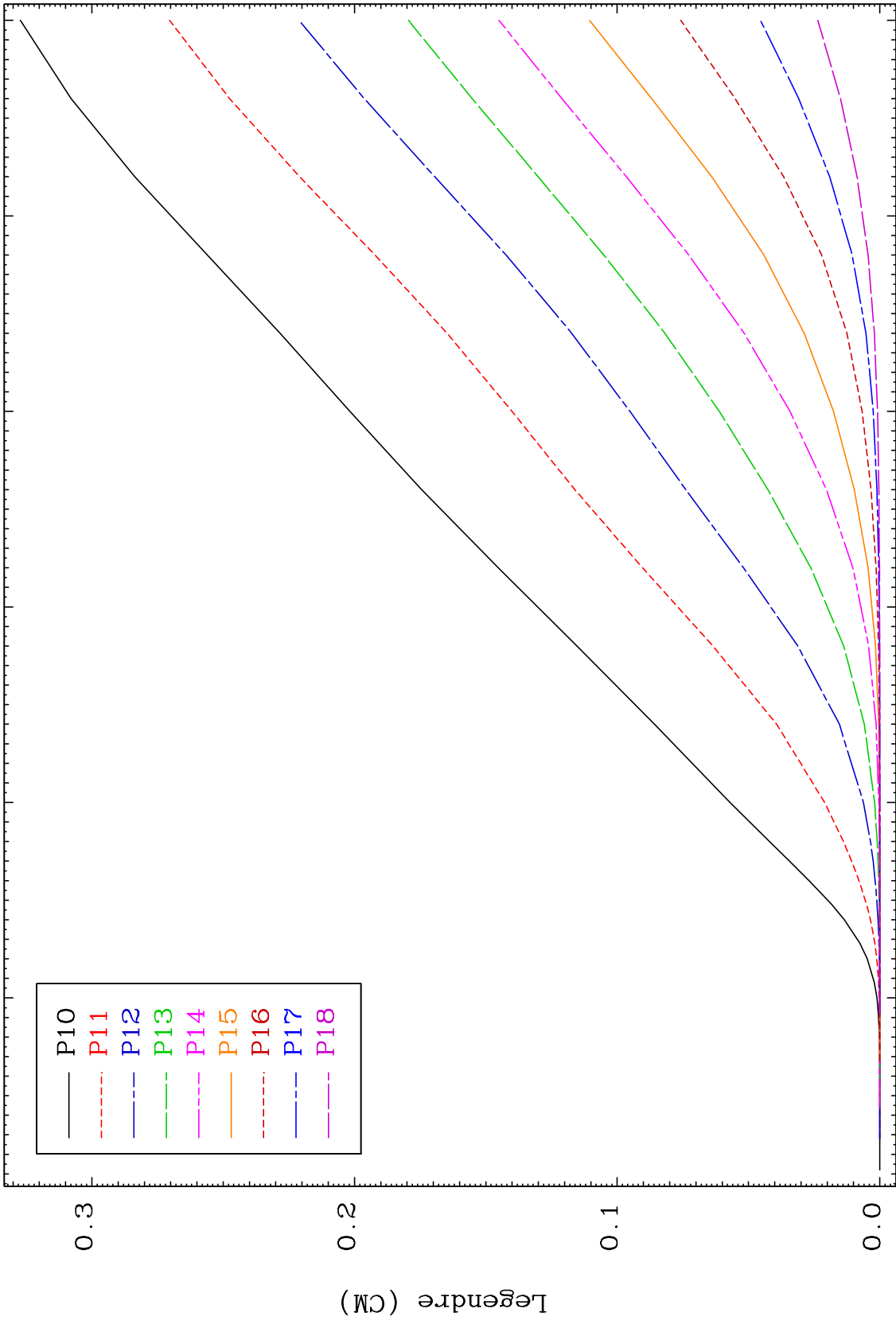
61-Pm-137



MAT 6119

Elastic Legendre Coefficients

61-Pm-137



16

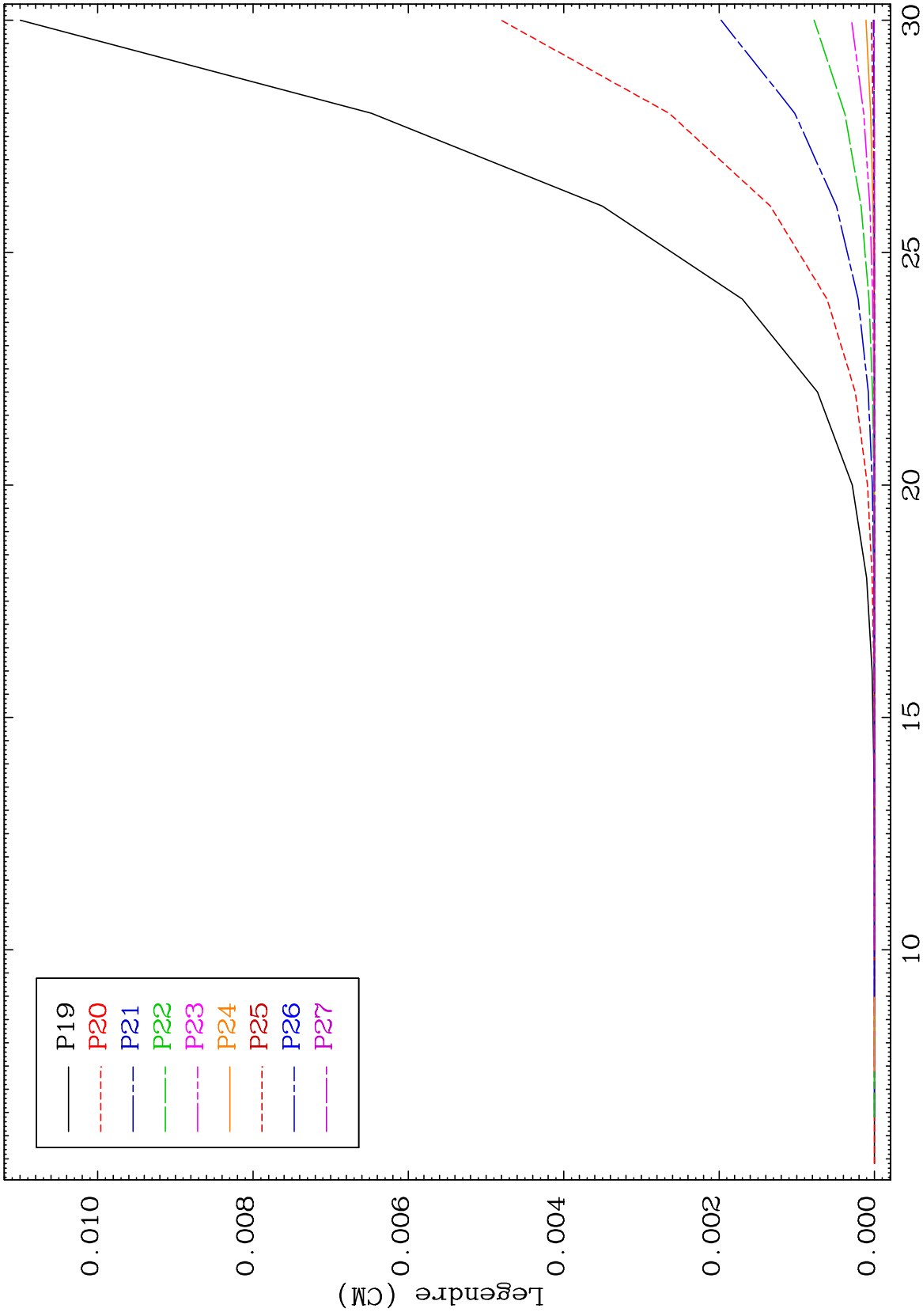
Incident Energy (MeV)

61-Pm-137

MAT 6119

### Elastic Legendre Coefficients

61-Pm-137



17

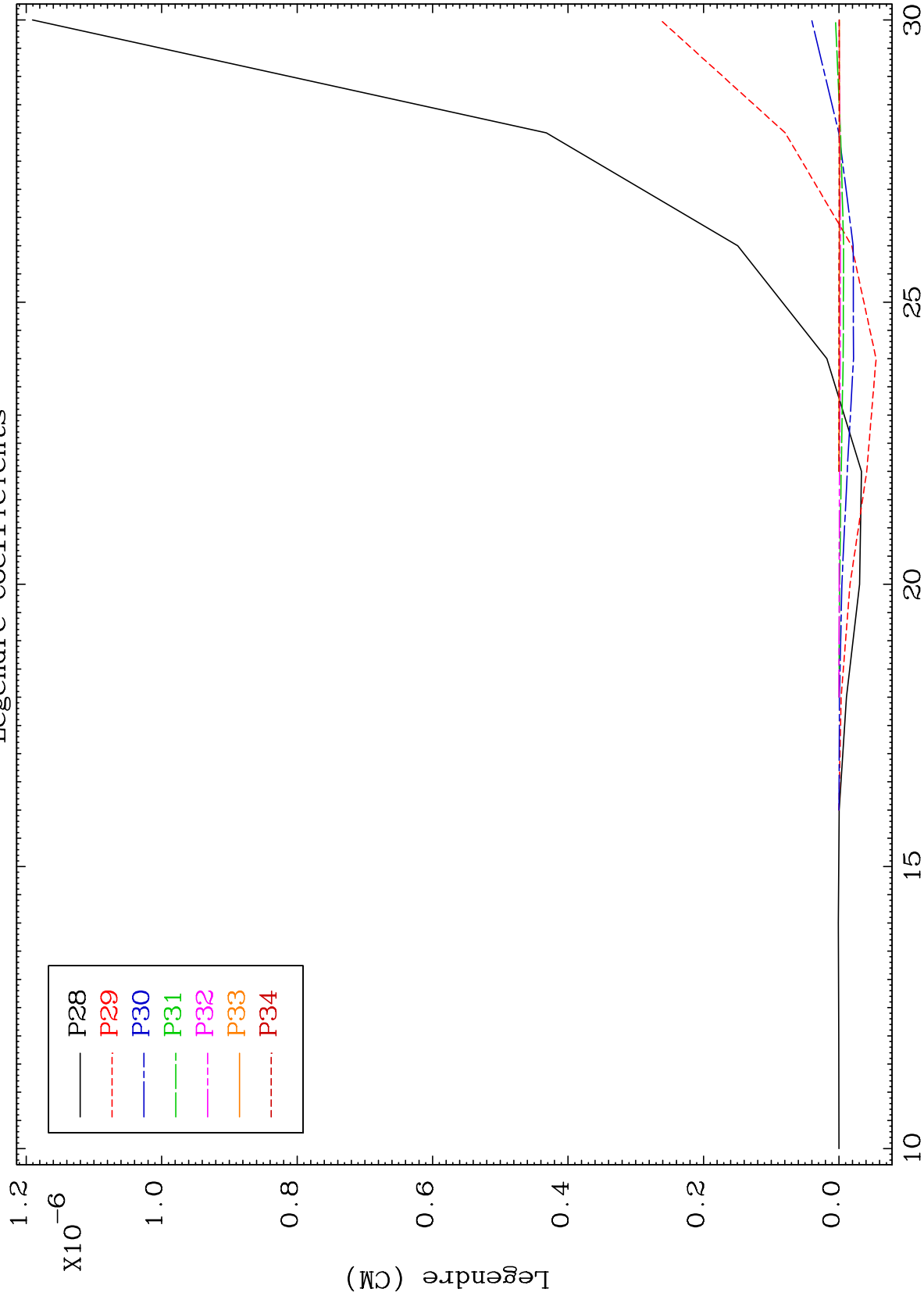
Incident Energy (MeV)

61-Pm-137

MAT 6119

Elastic Legendre Coefficients

61-Pm-137



18

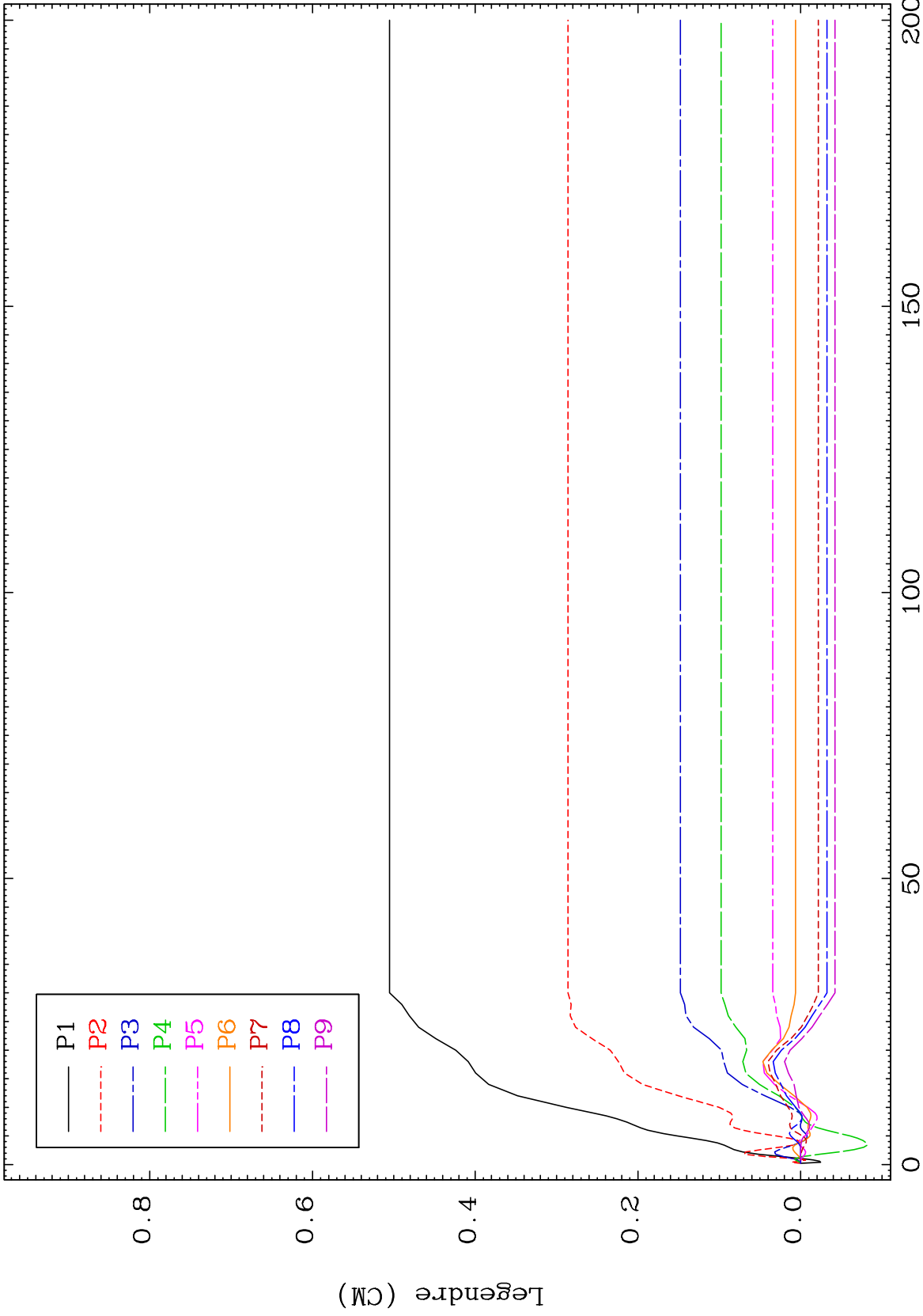
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137

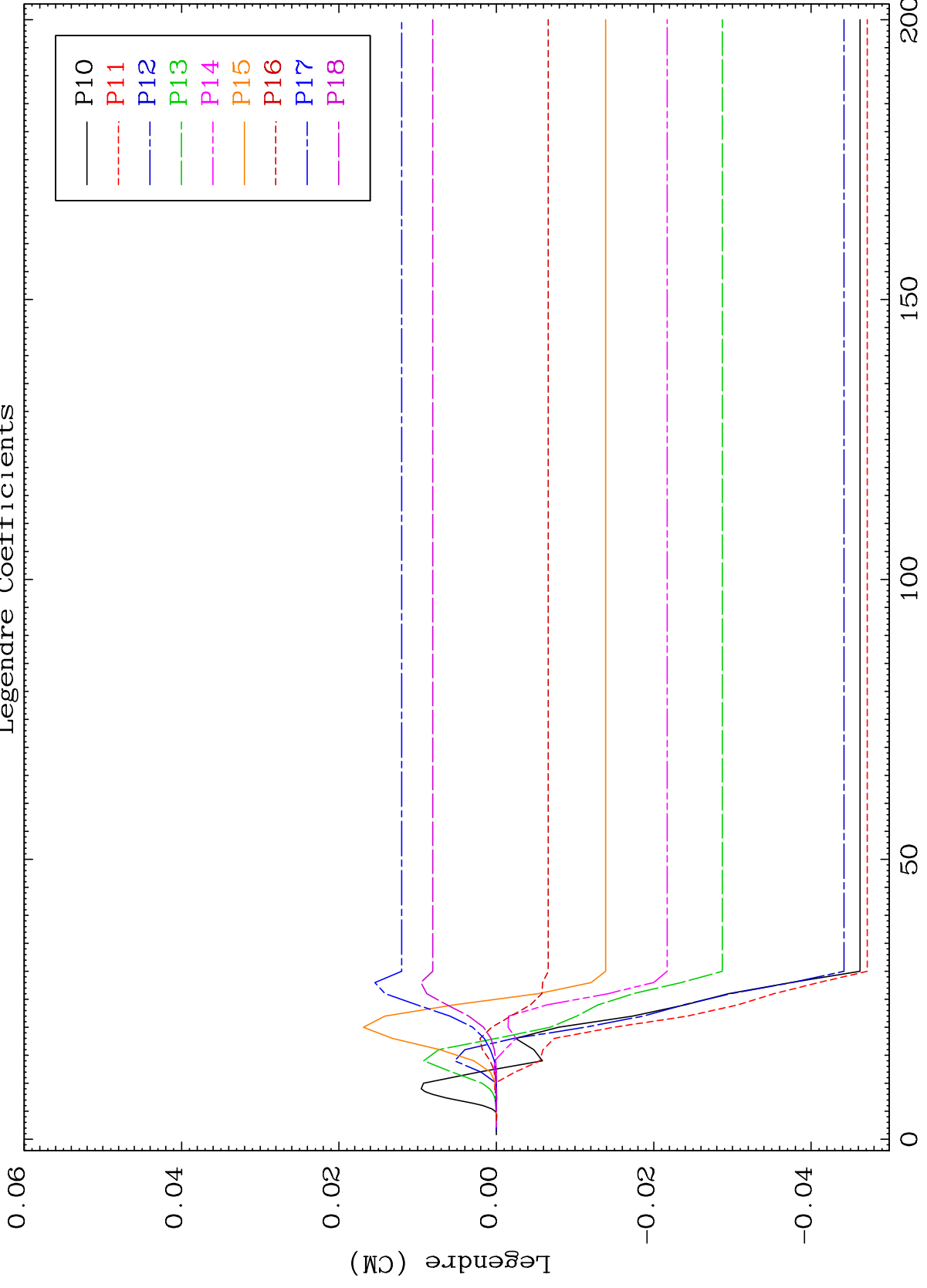


19

Incident Energy (MeV)

61-Pm-137

MAT 6119 MT= 51 (n,n') Level Legendre Coefficients 61-Pm-137

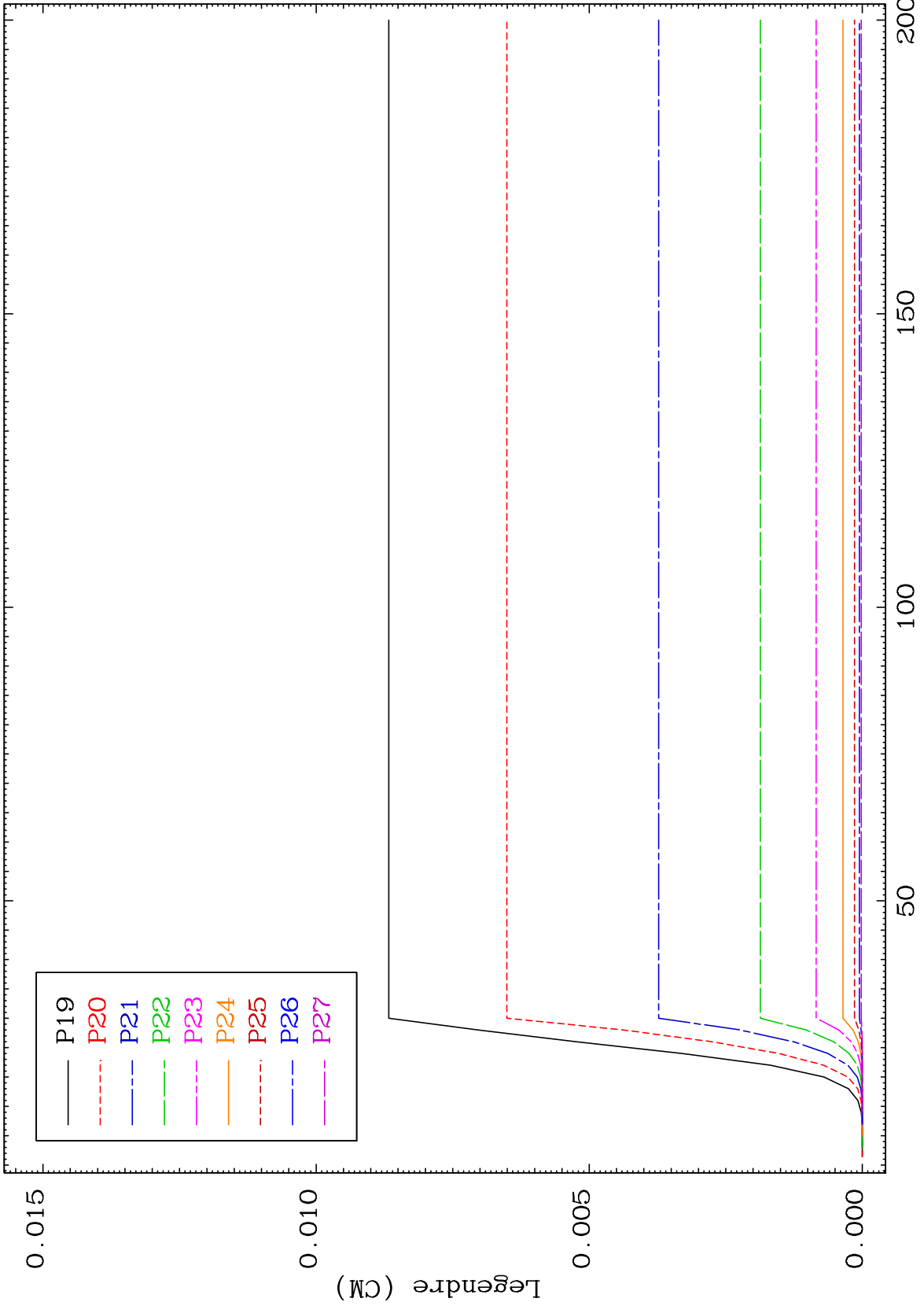


61-Pm-137

MAT 6119

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

61-Pm-137



21

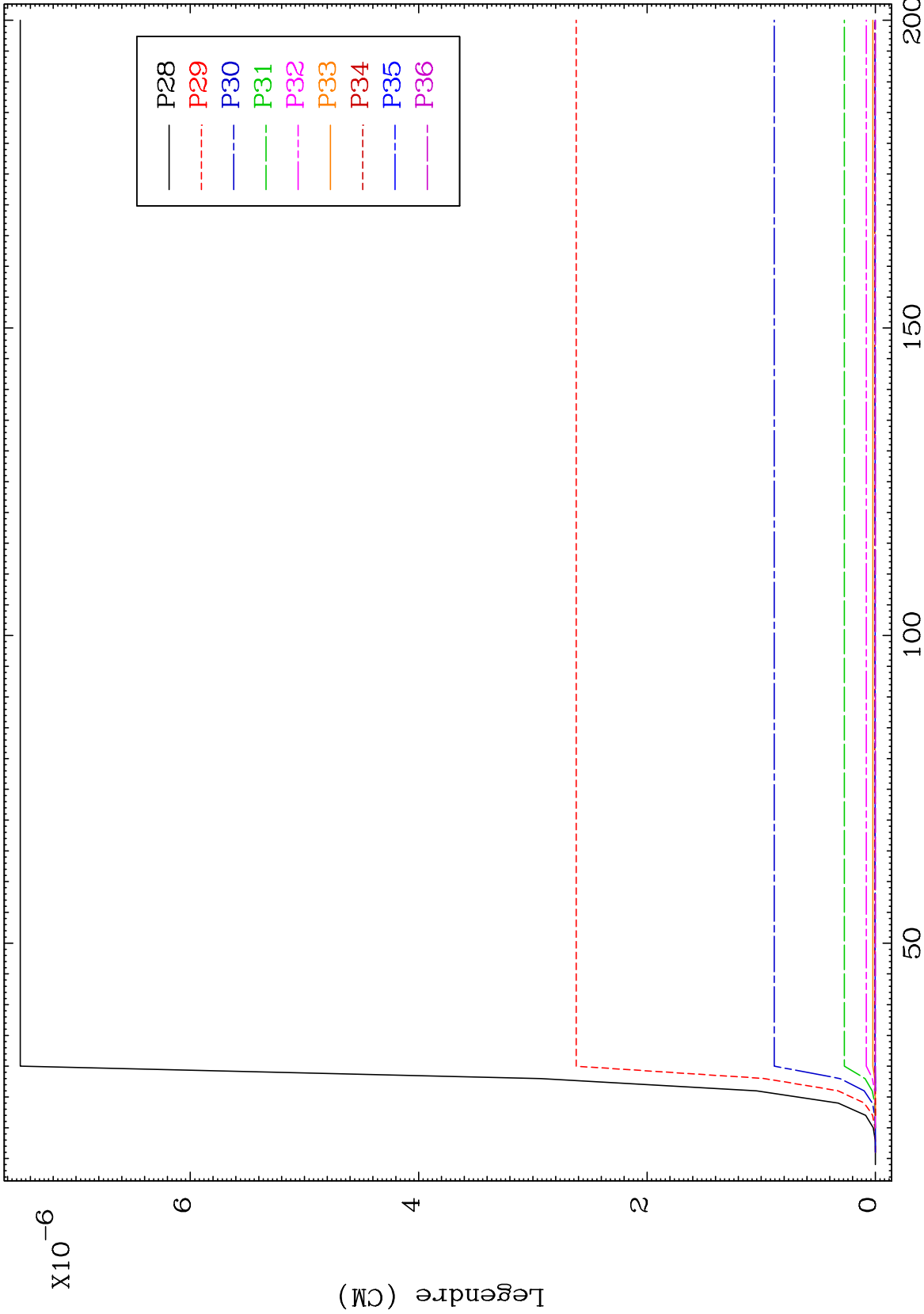
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



22

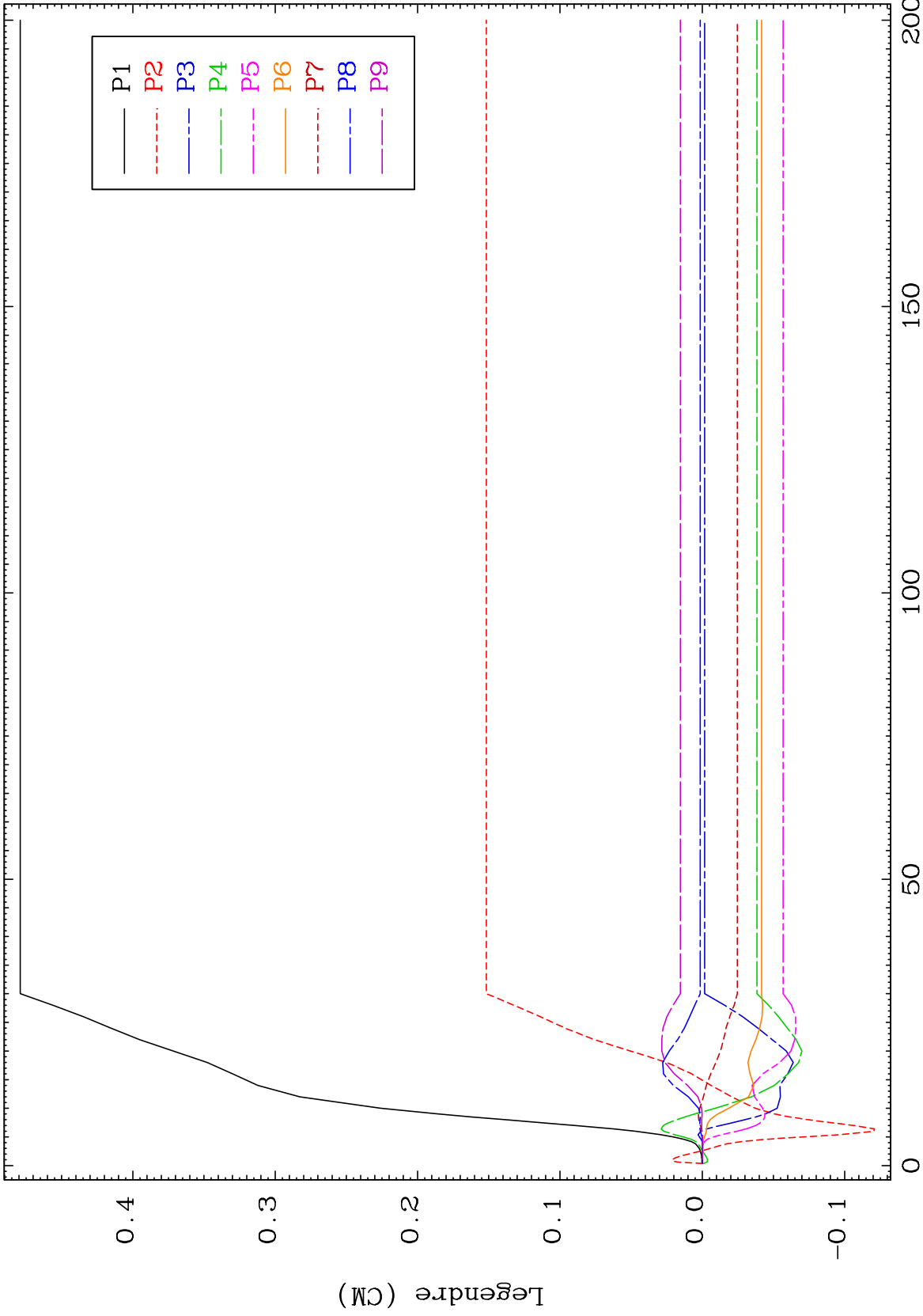
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



23

Incident Energy (MeV)

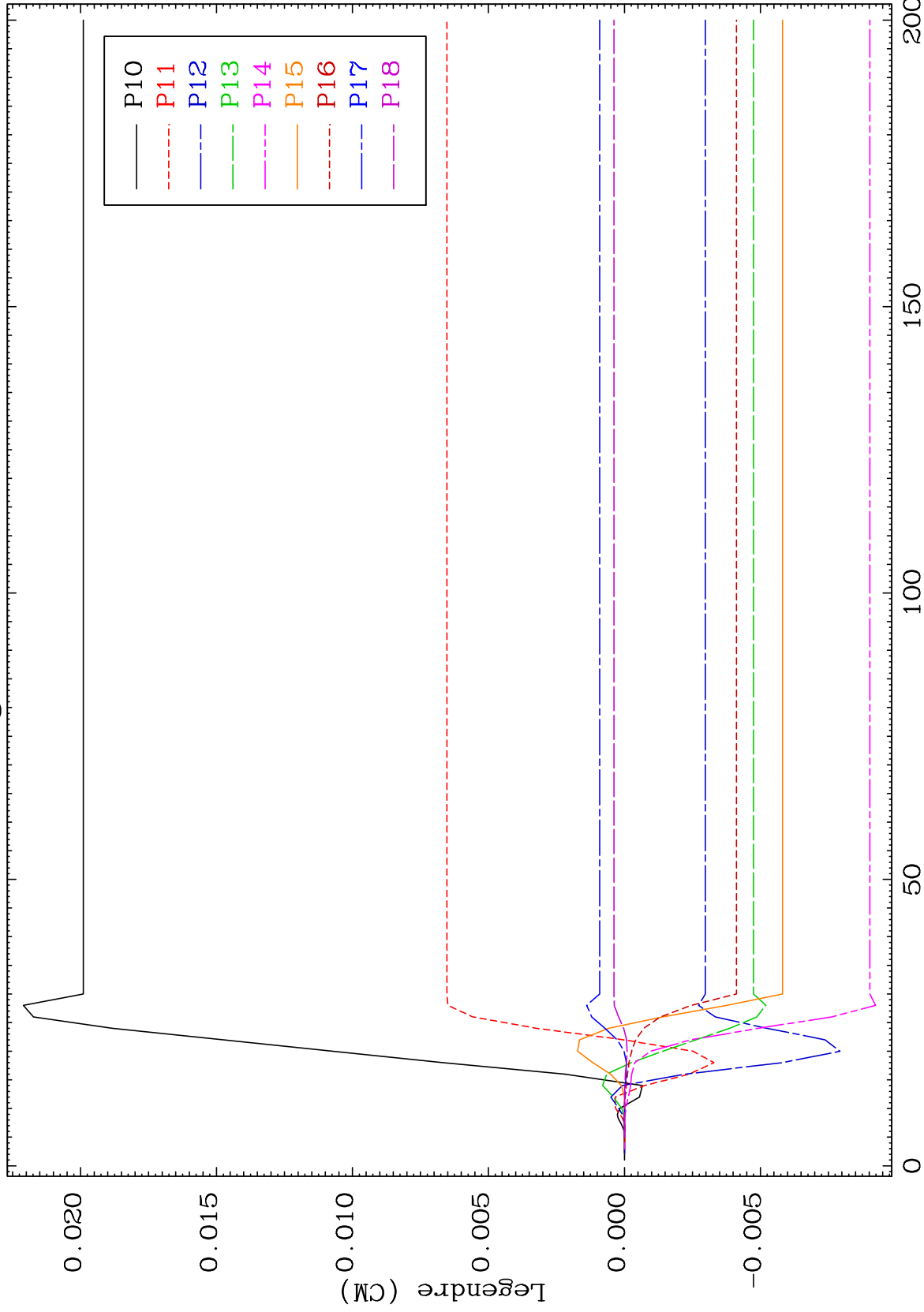
61-Pm-137



MAT 6119

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

61-Pm-137



24

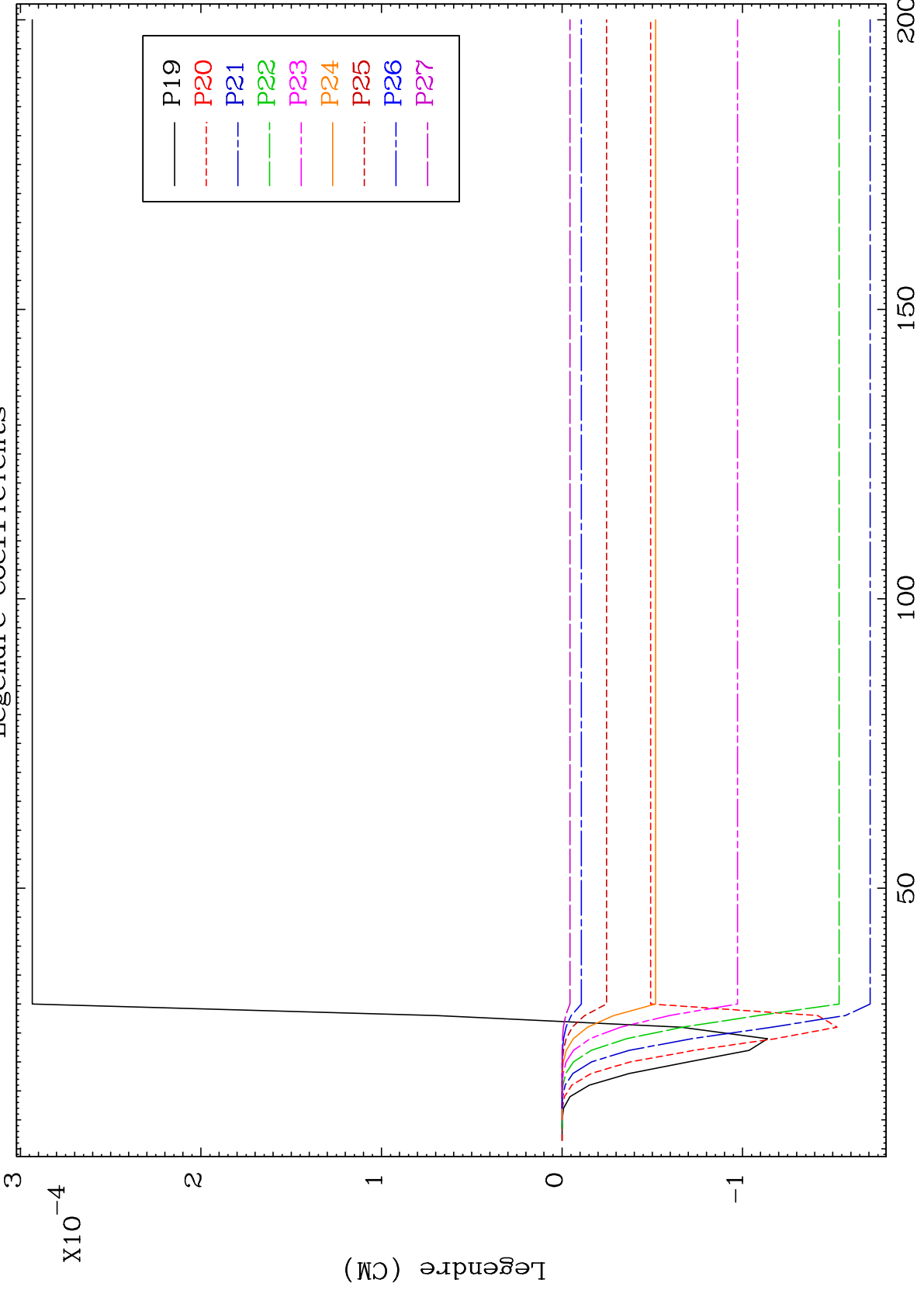
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



25

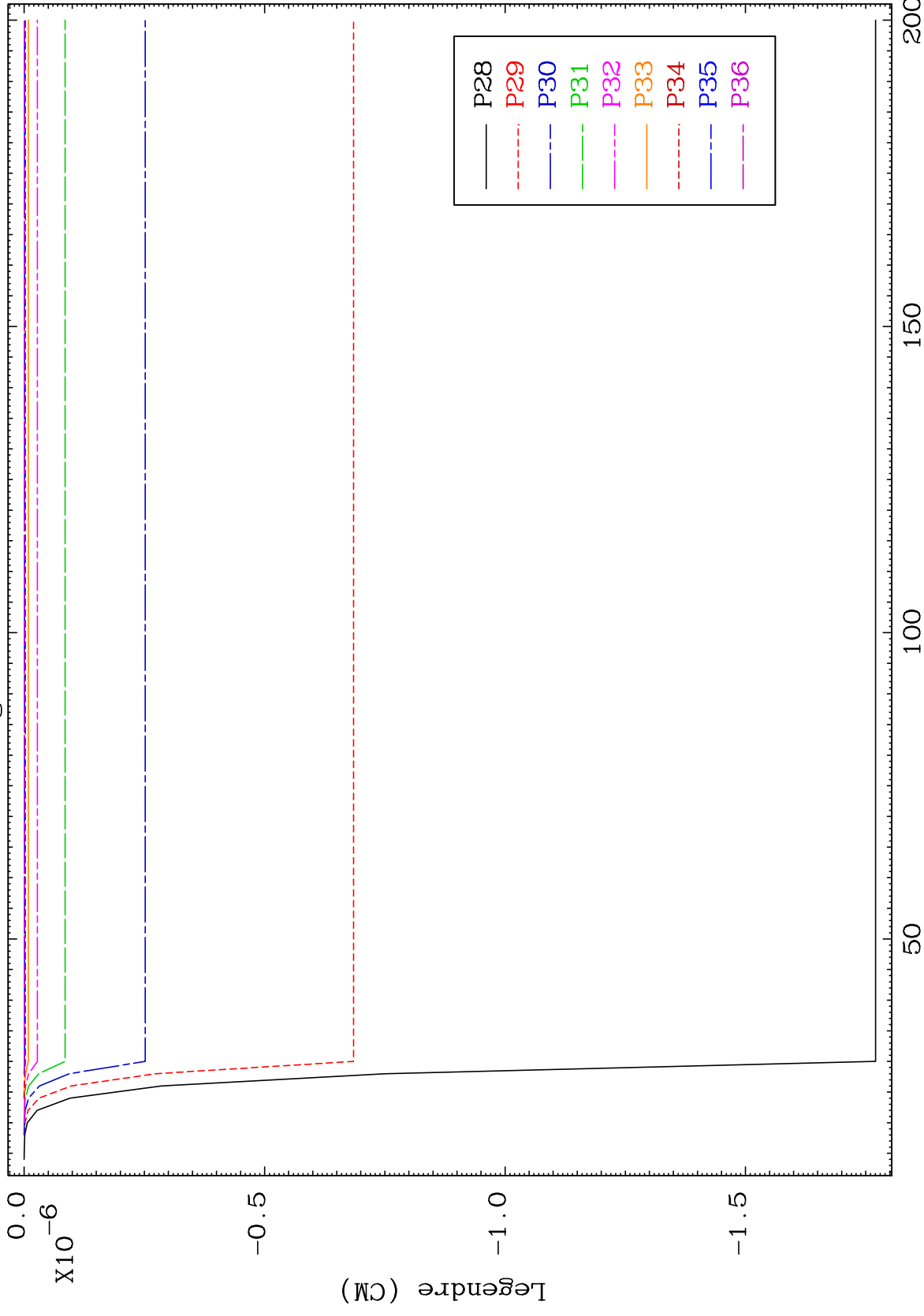
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



61-Pm-137

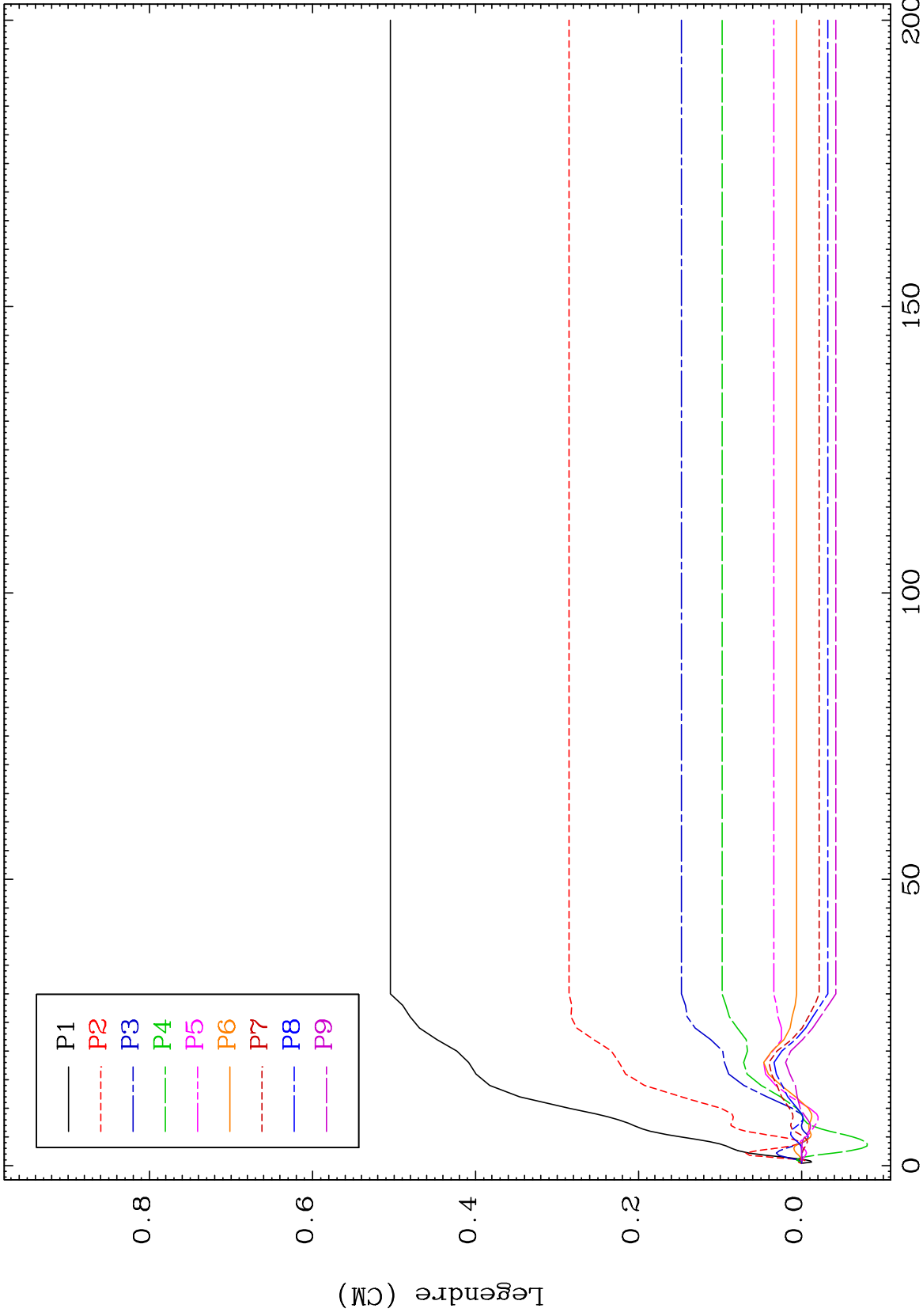
Incident Energy (MeV)

26

MAT 6119

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

61-Pm-137



27

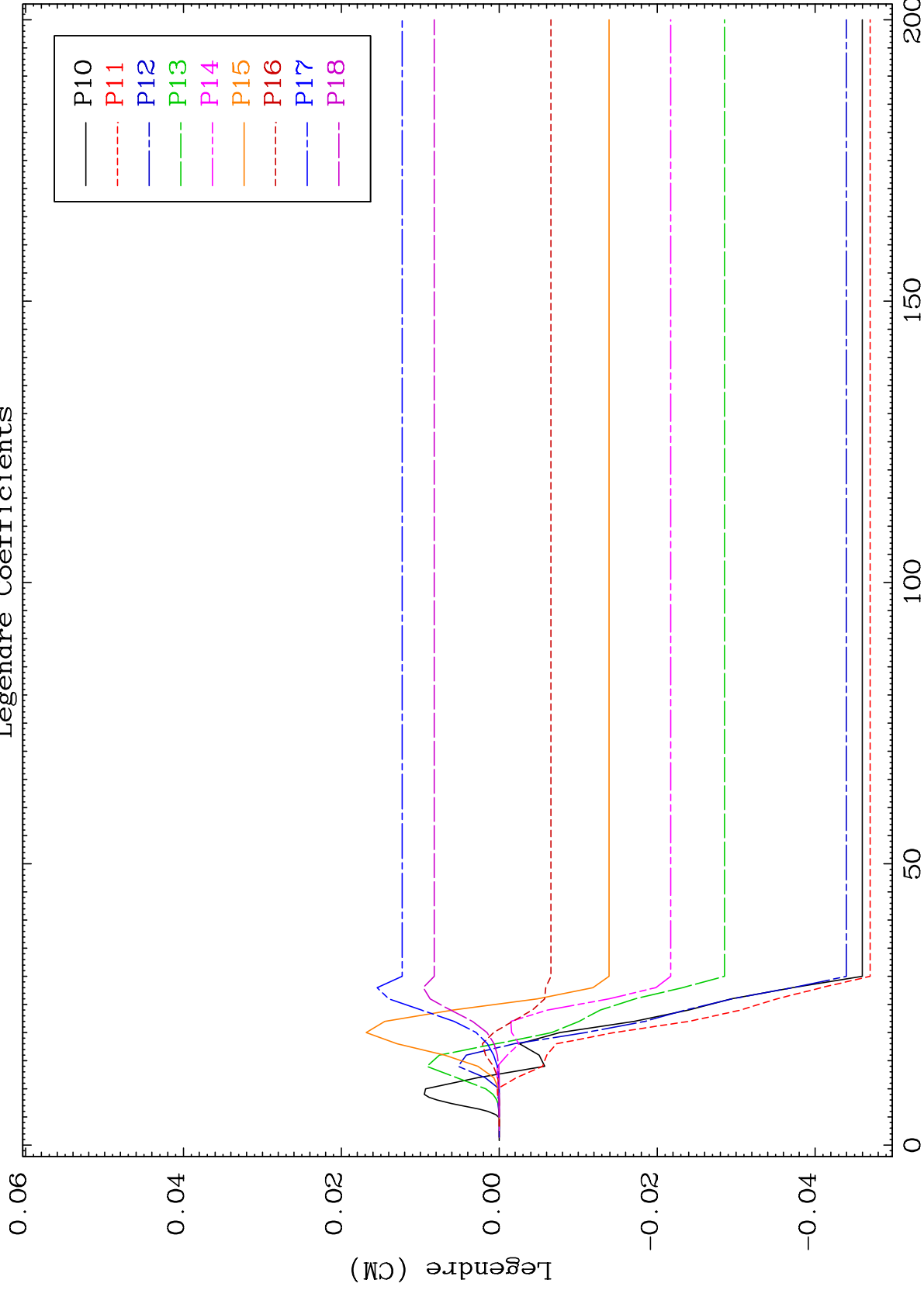
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



28

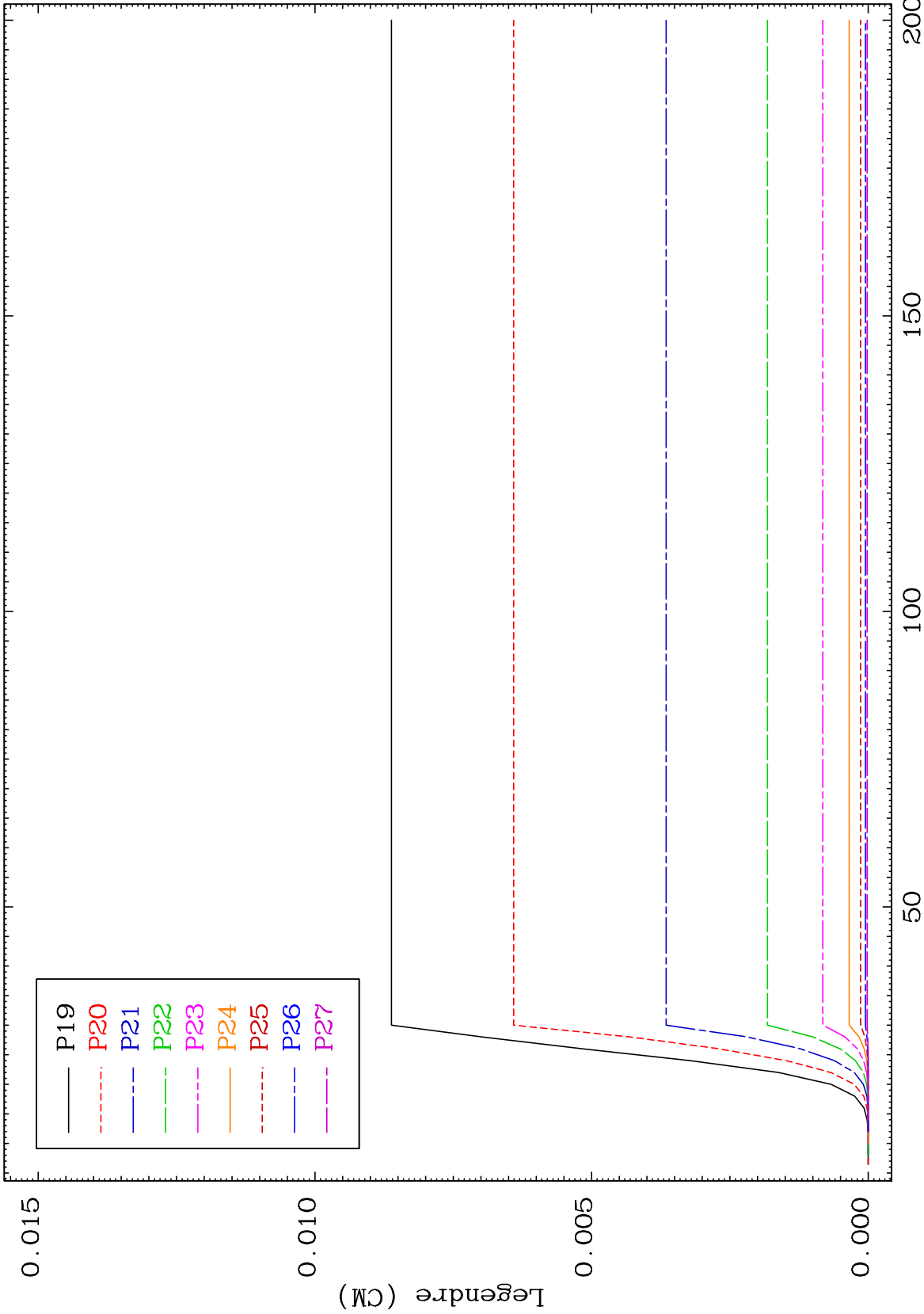
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



29

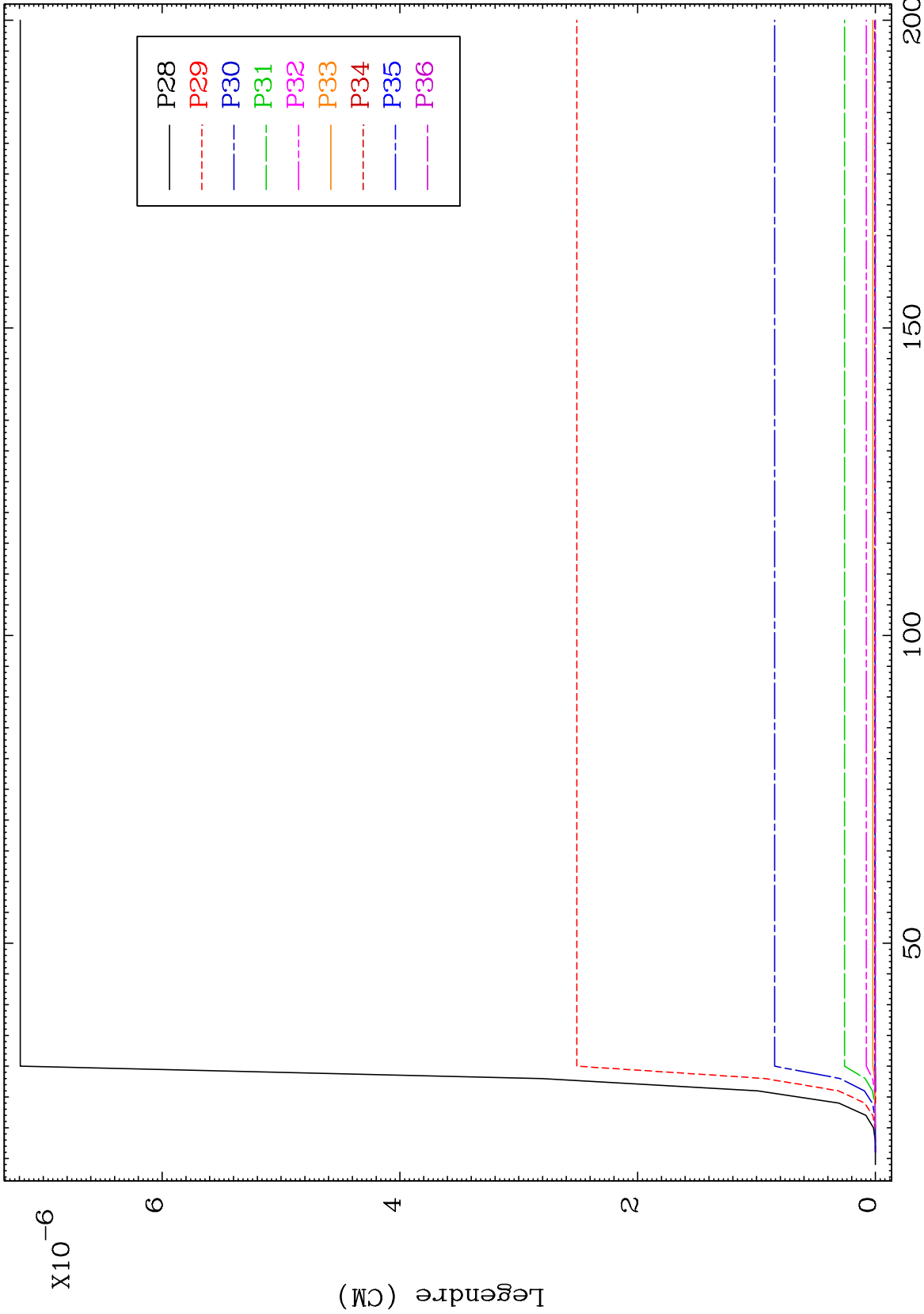
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



30

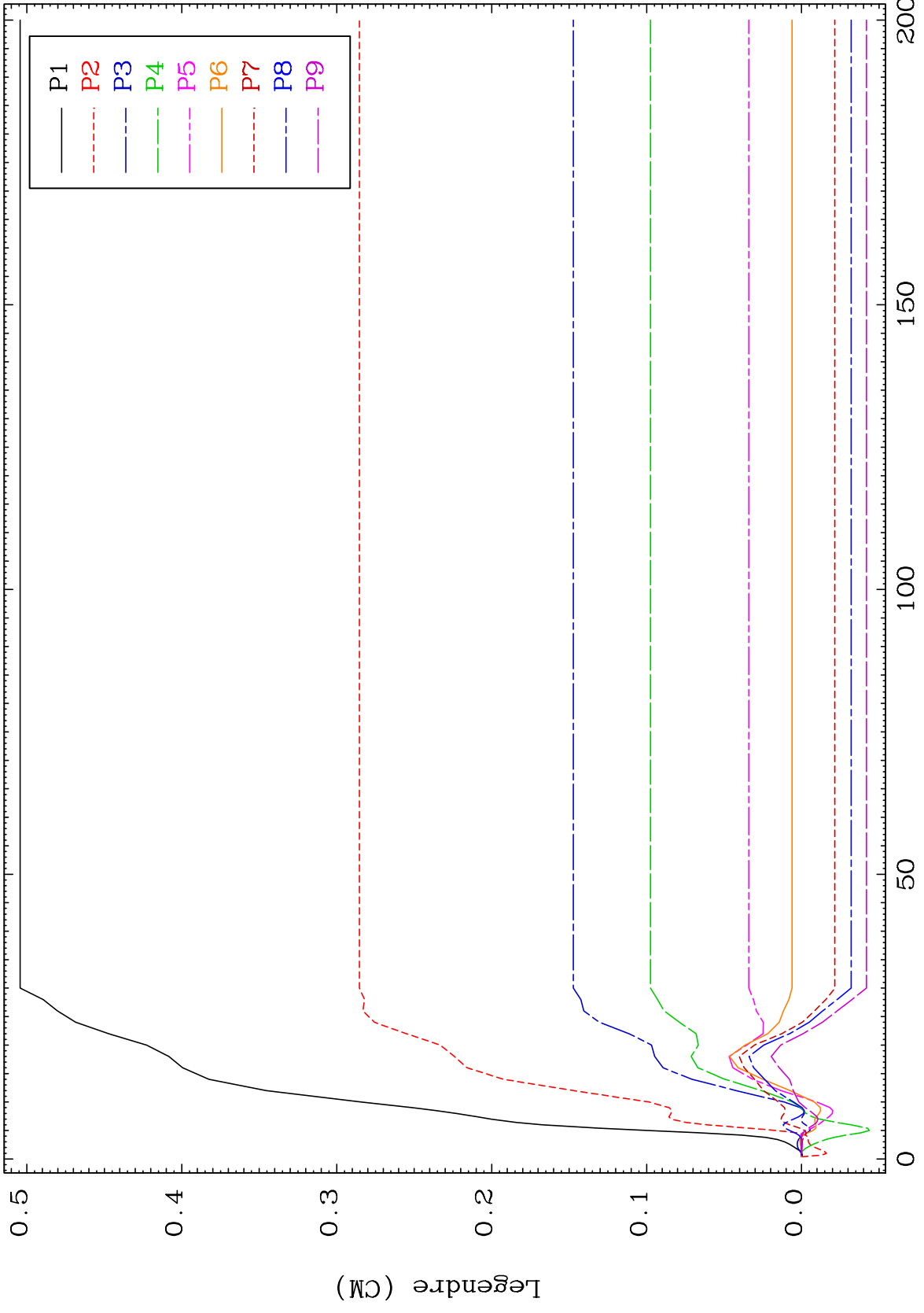
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



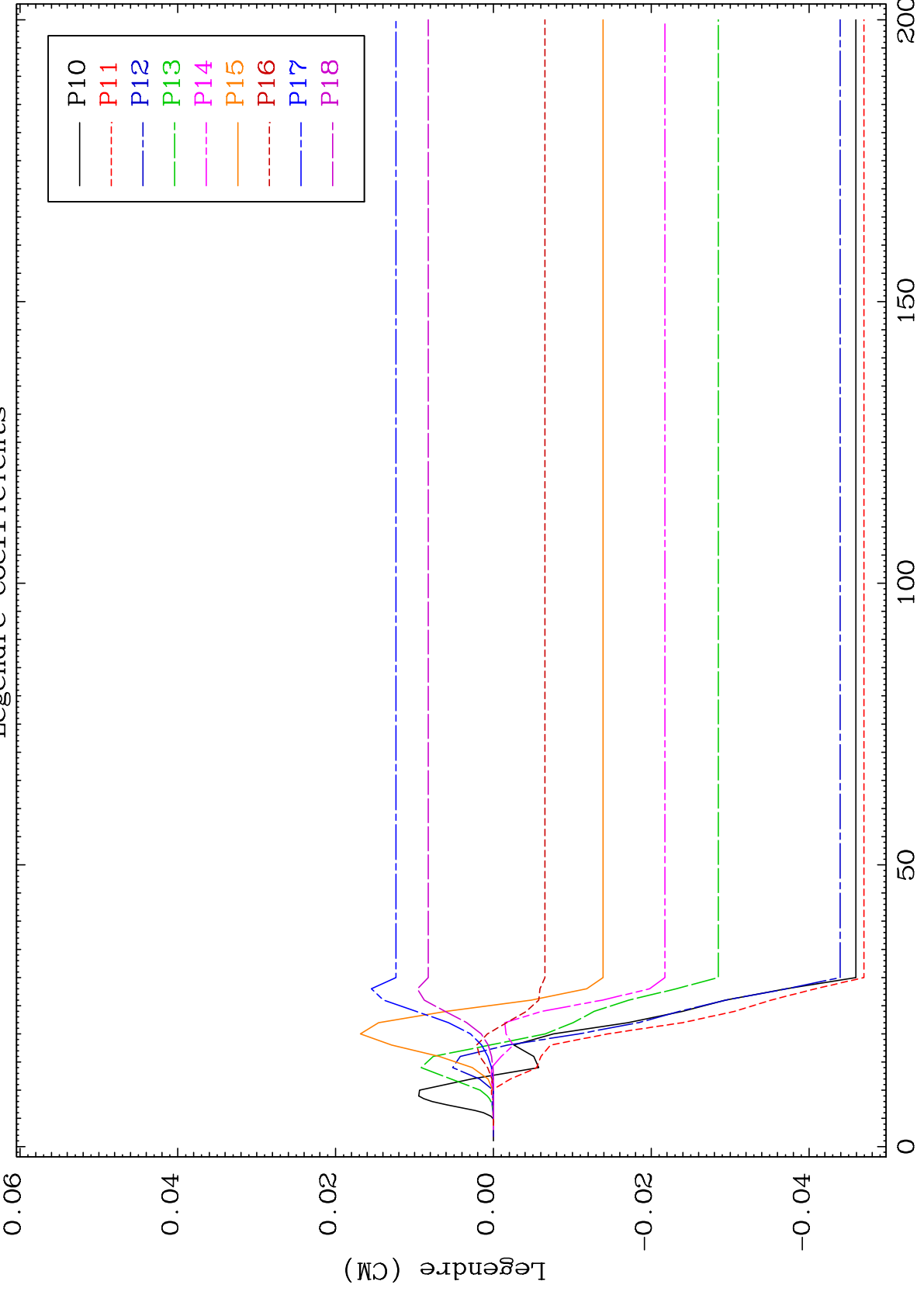
31

Incident Energy (MeV)

61-Pm-137



MAT 6119 MT= 54 (n,n') Level Legendre Coefficients 61-Pm-137

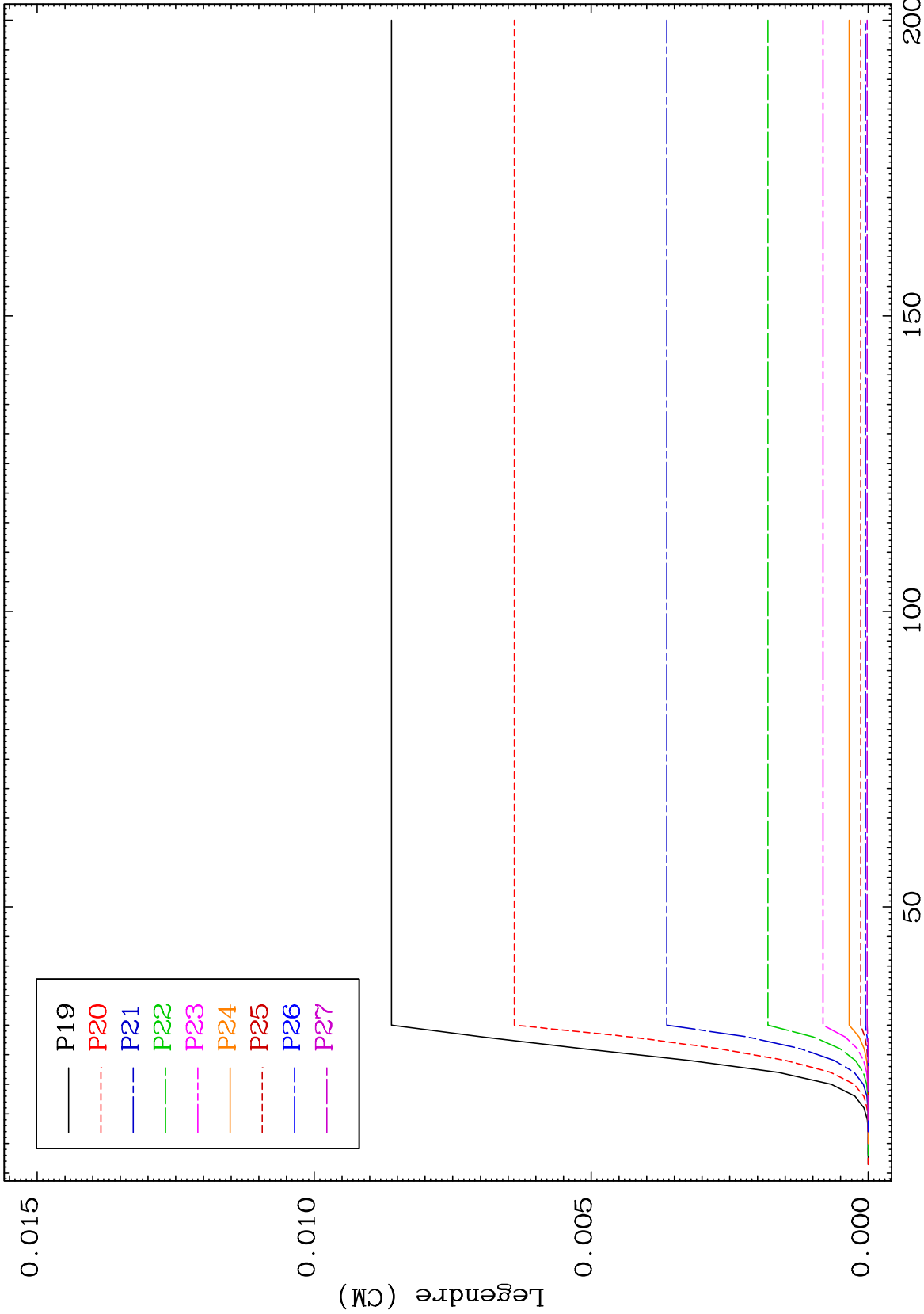


32 61-Pm-137

MAT 6119

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

61-Pm-137



33

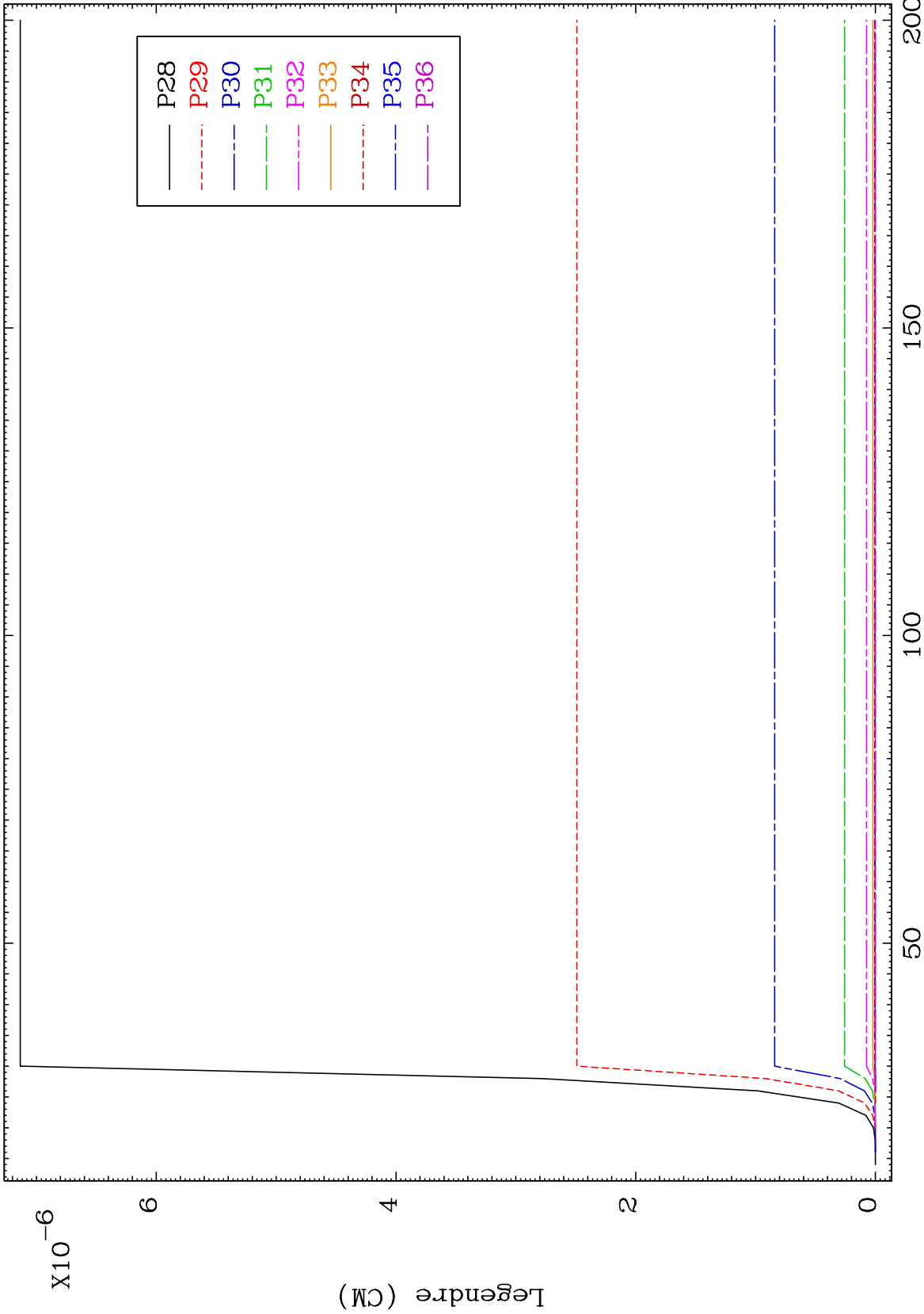
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



34

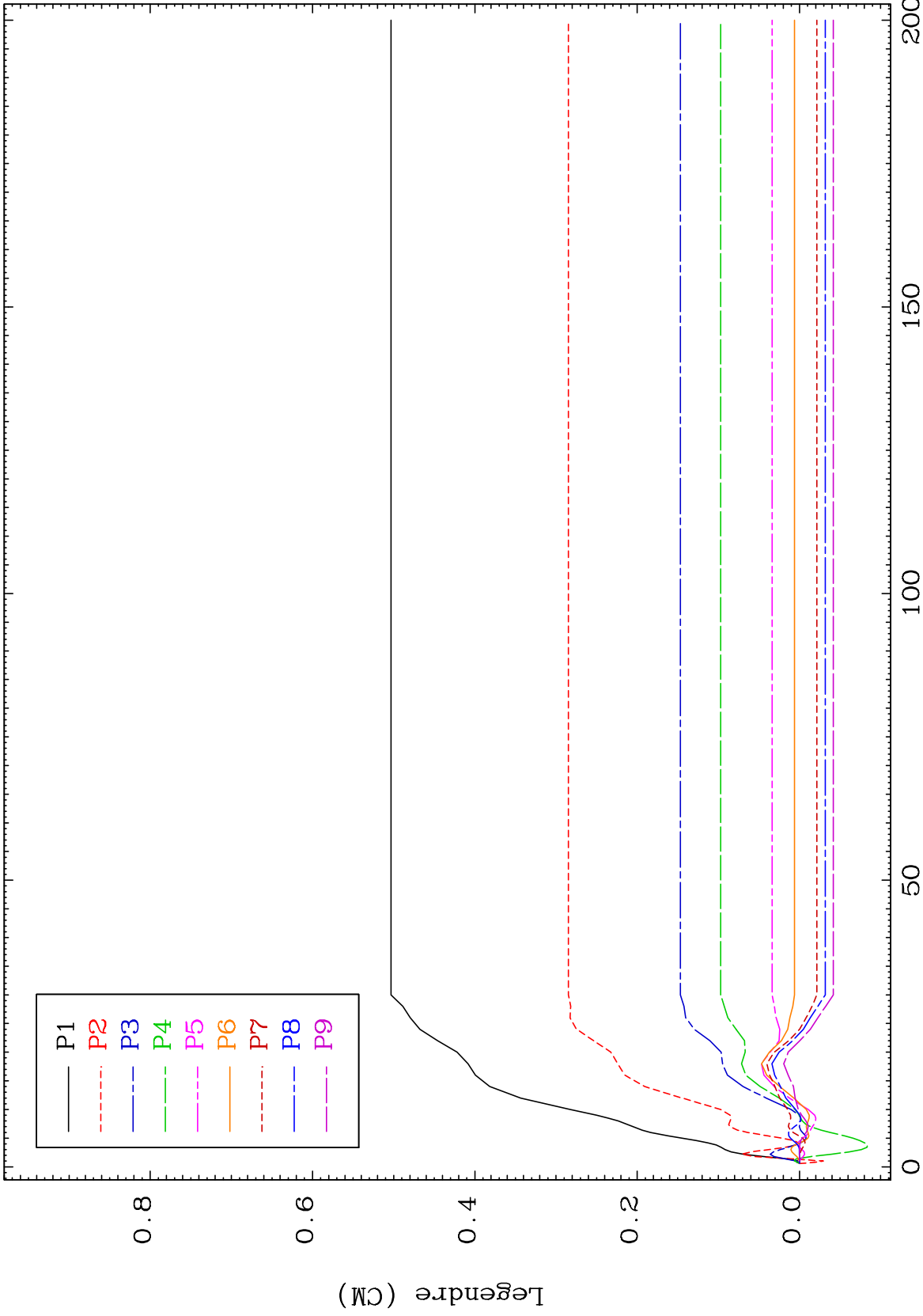
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



35

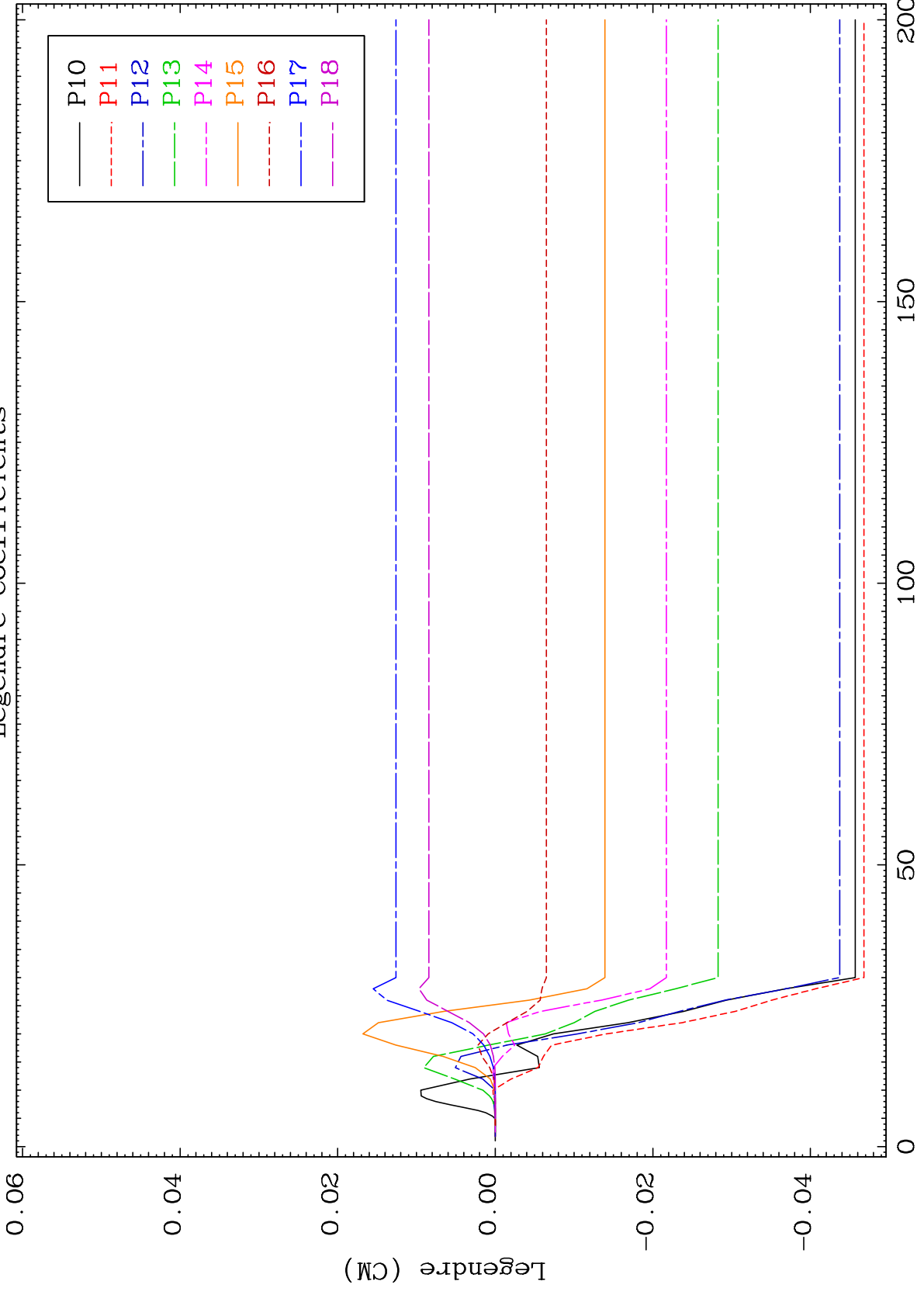
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



36

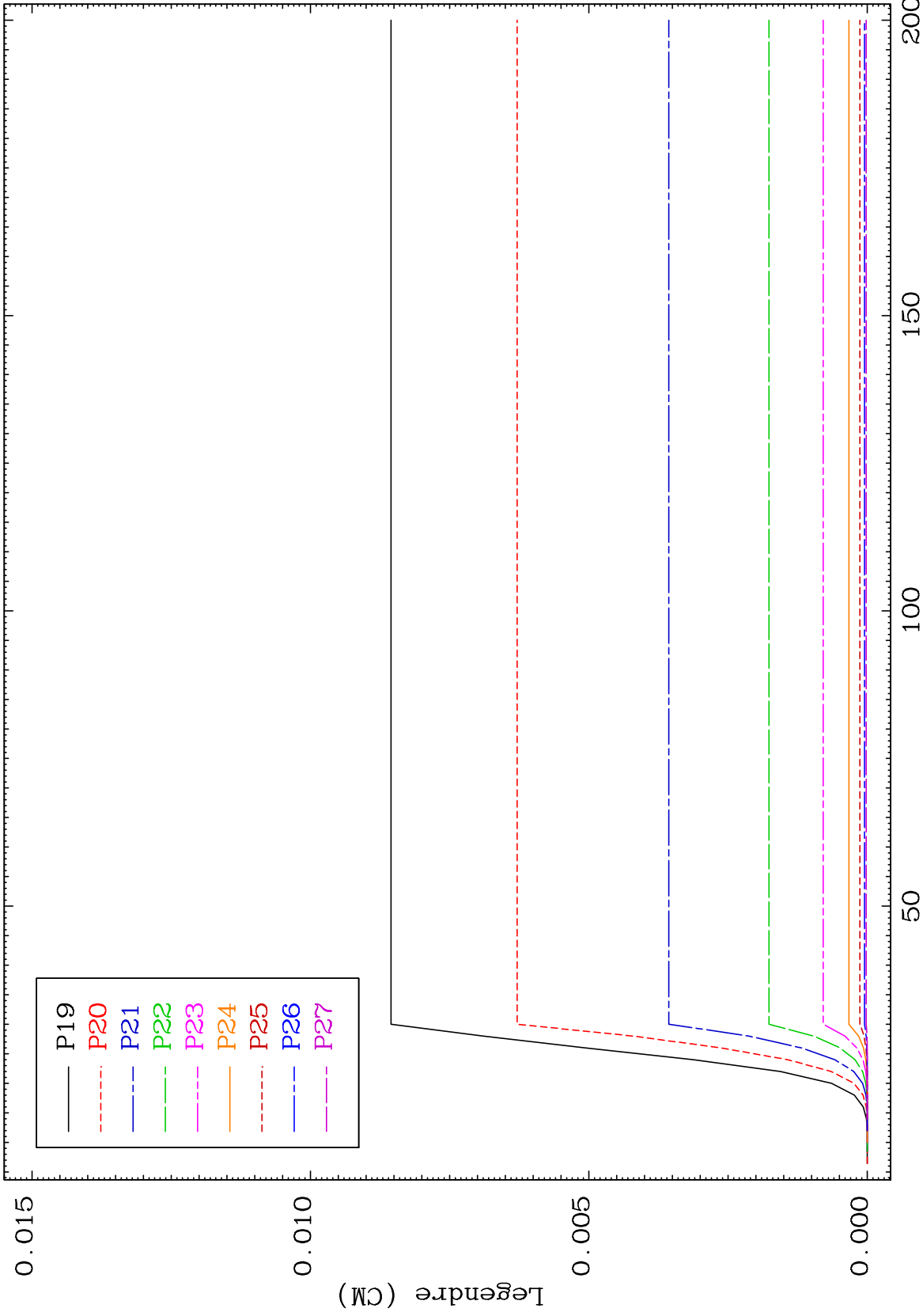
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



37

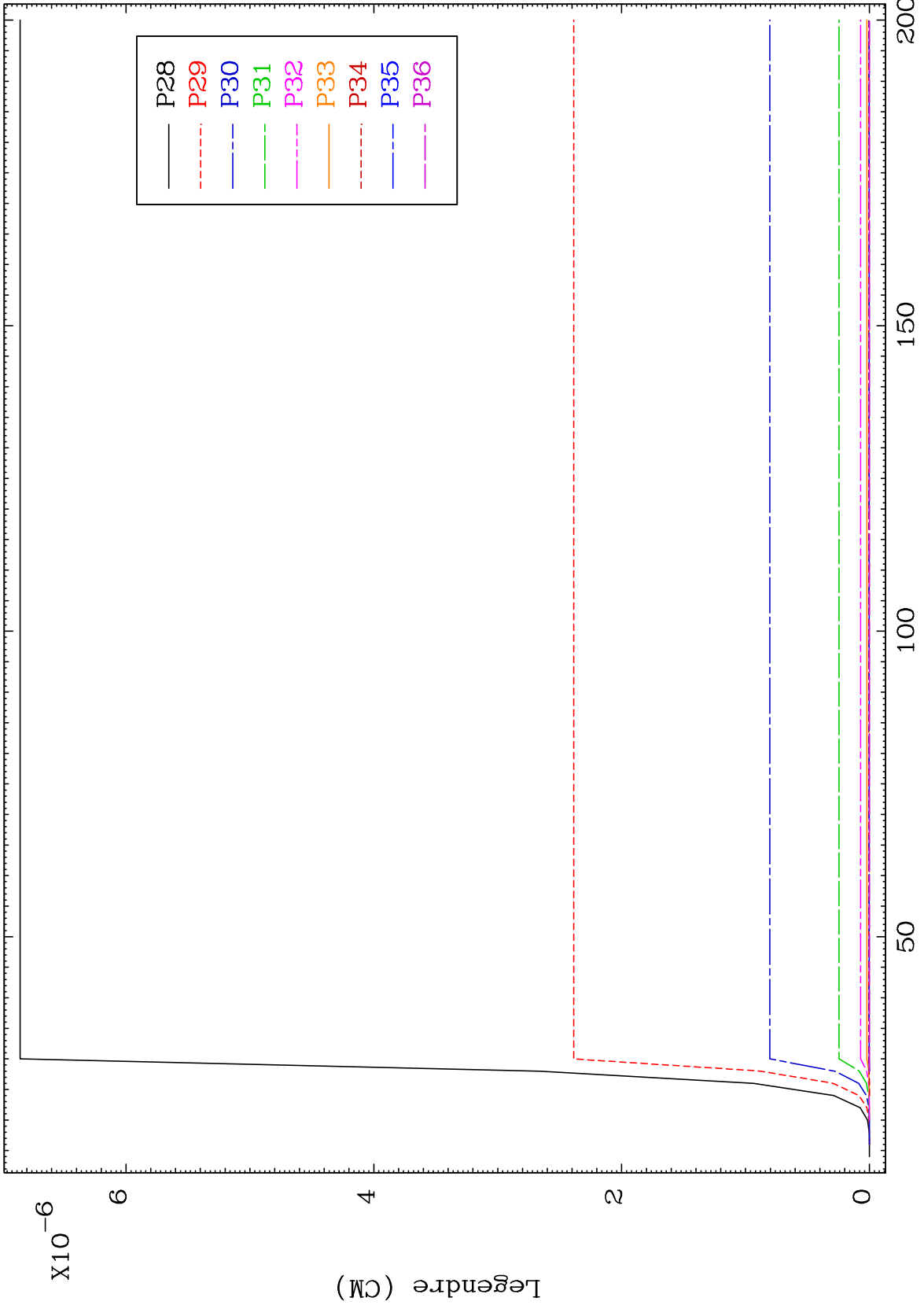
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



38

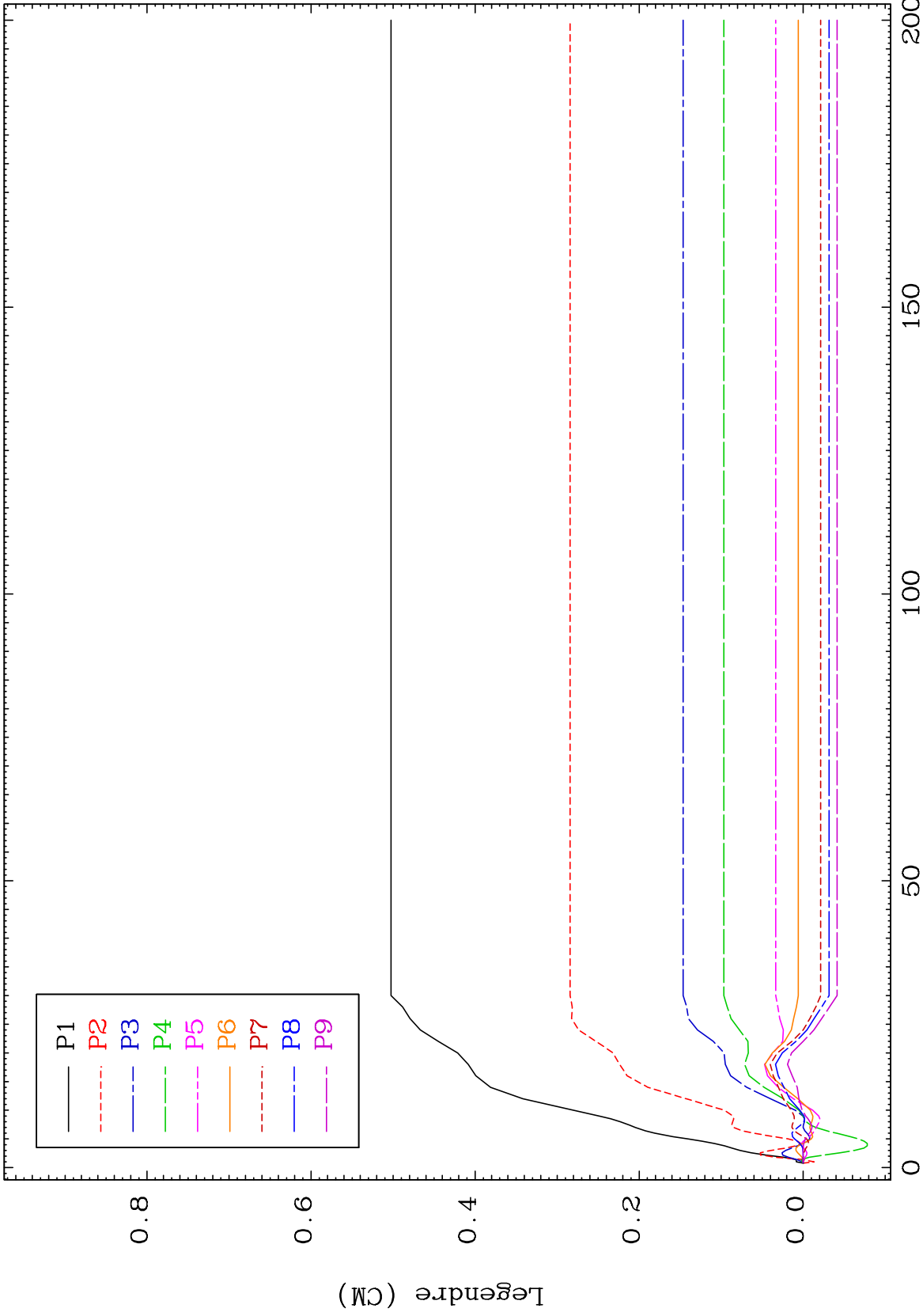
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



39

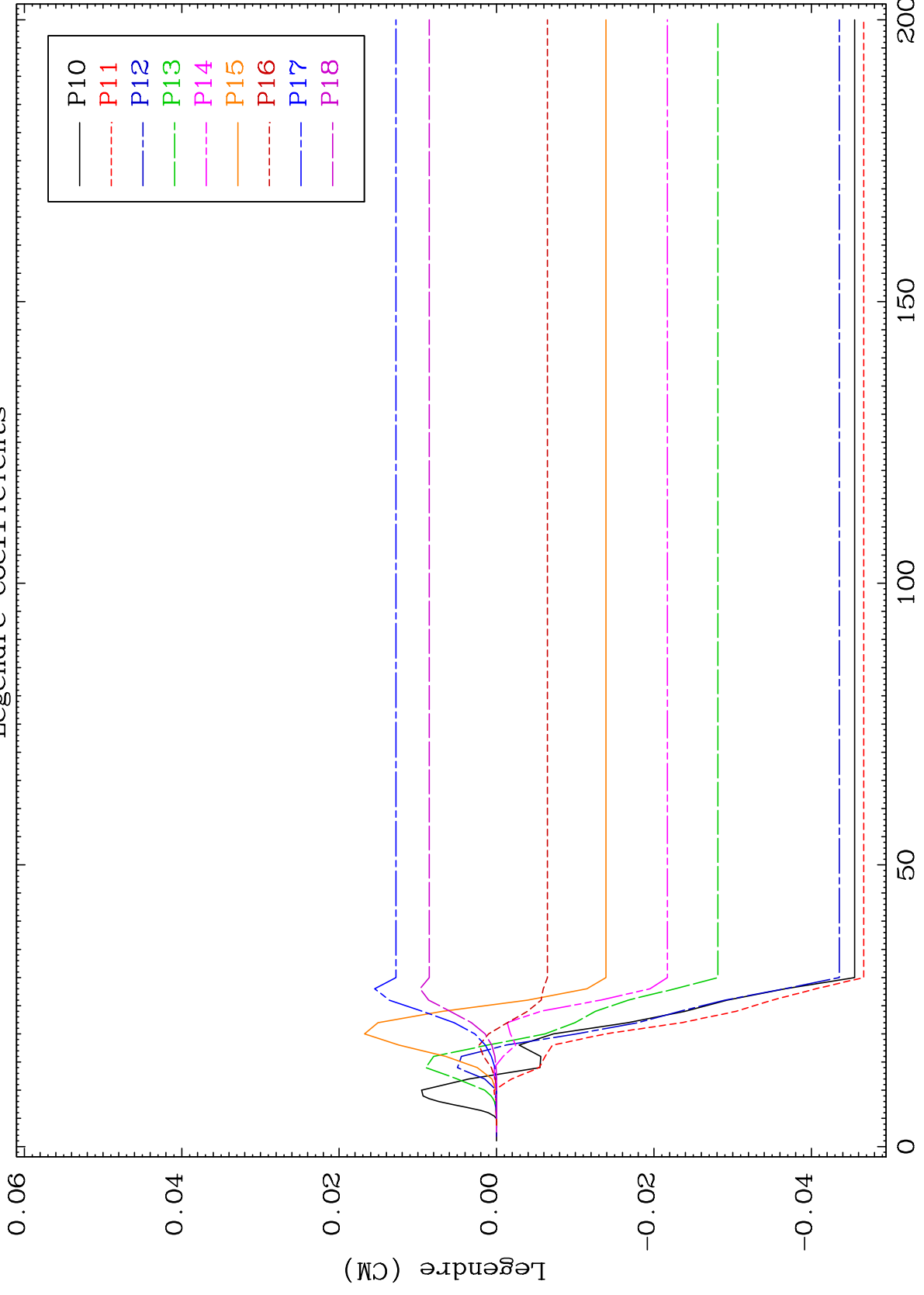
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MAT 6119

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

61-Pm-137



40

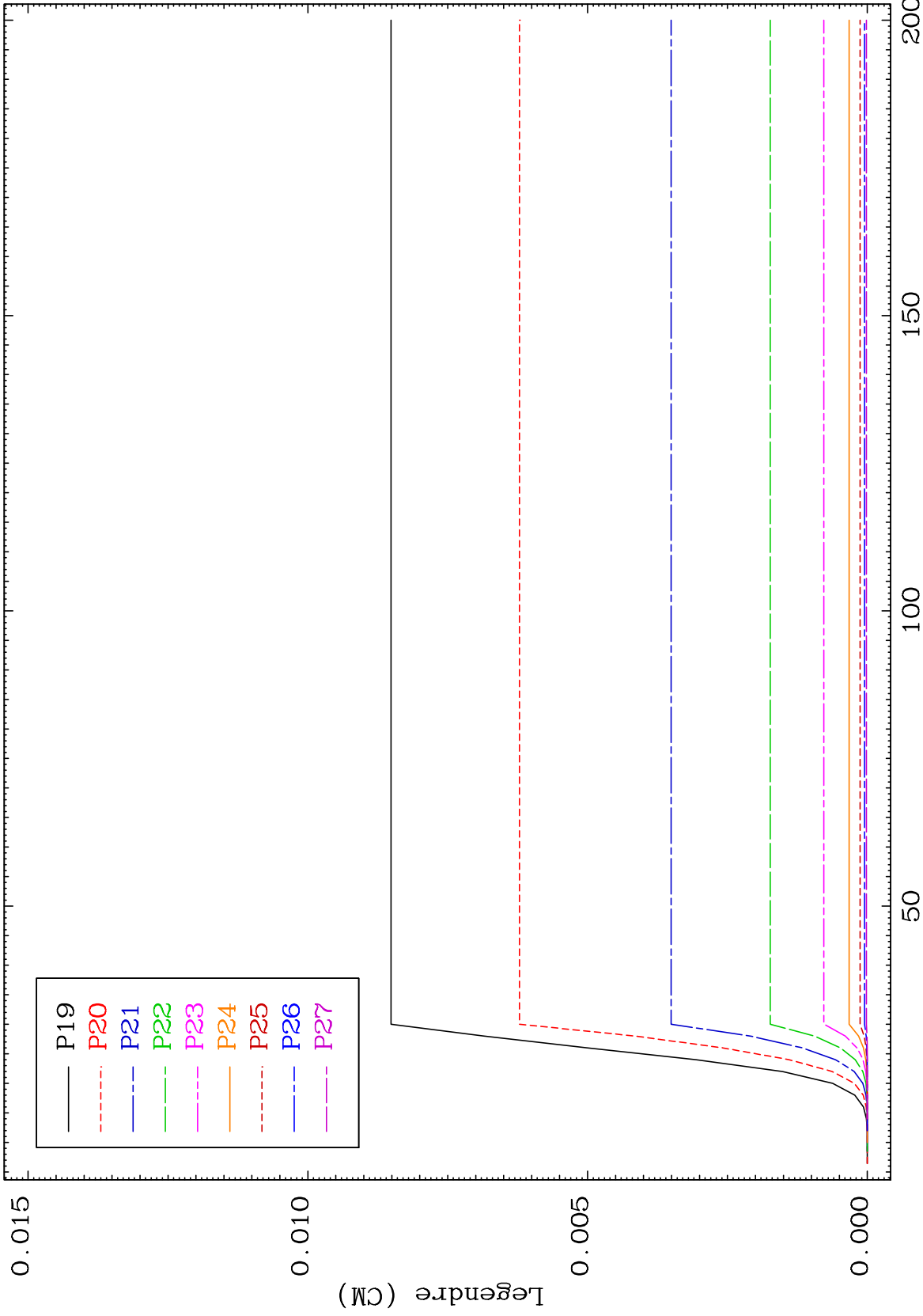
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

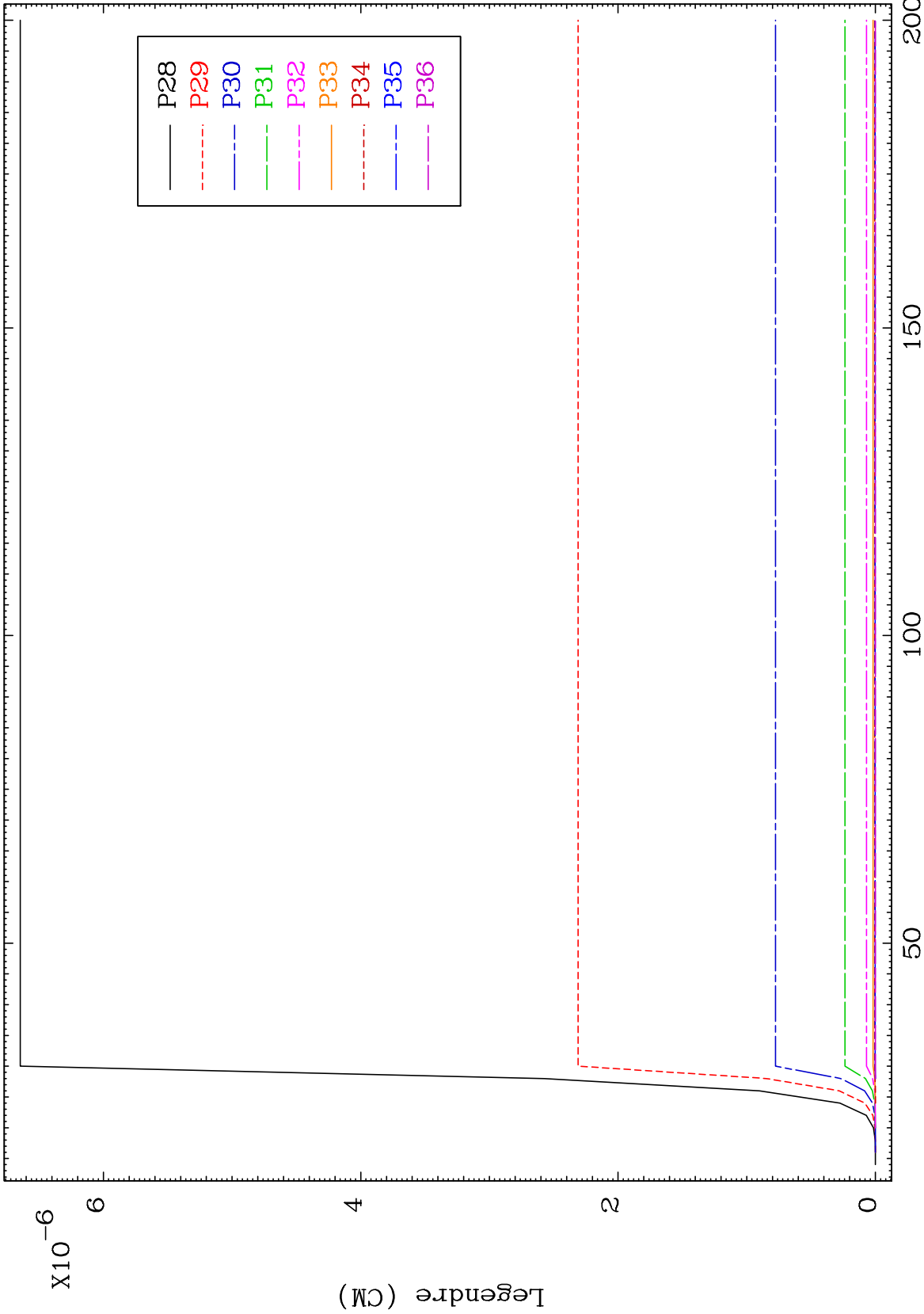
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MAT 6119

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

61-Pm-137



42

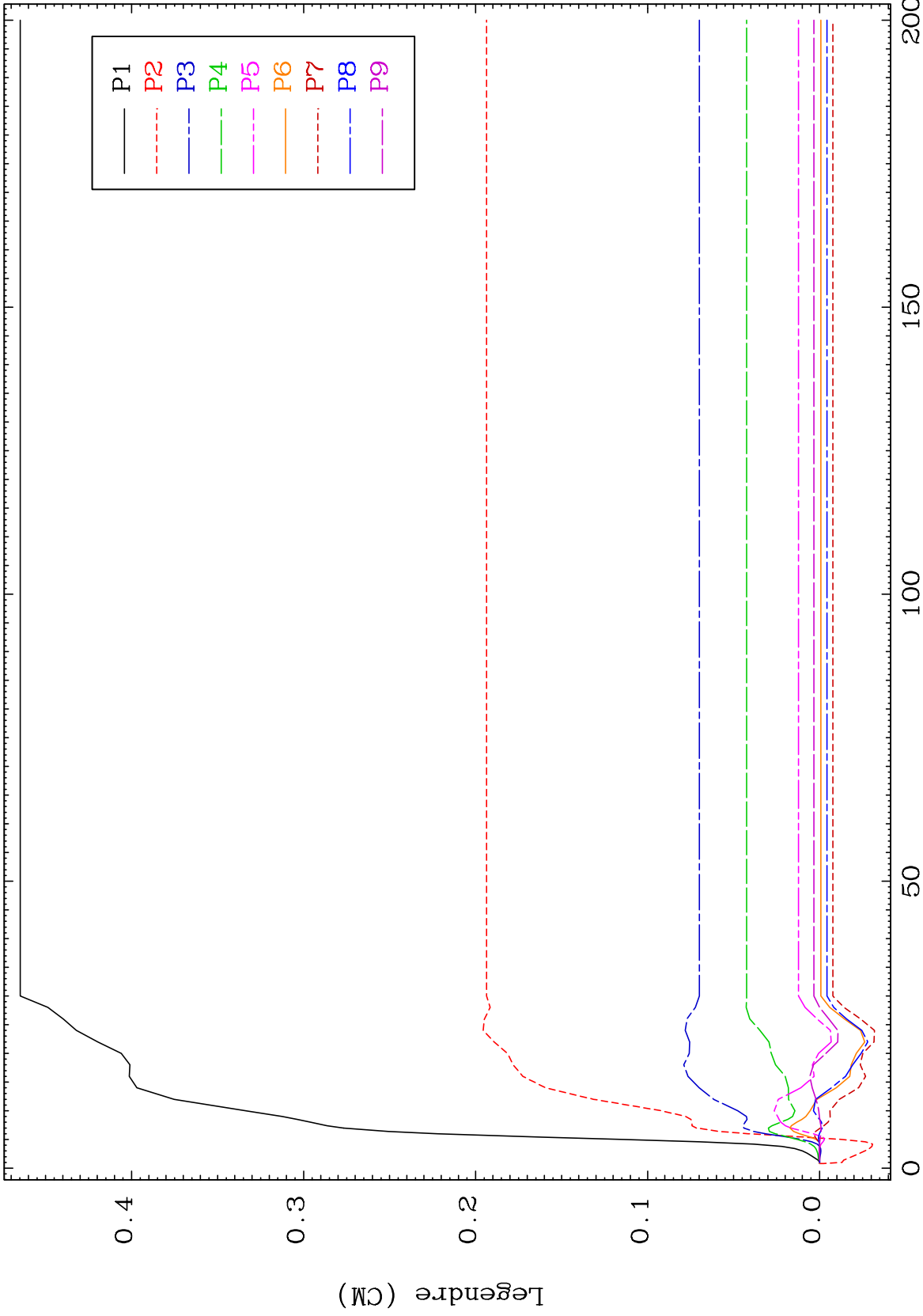
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



43

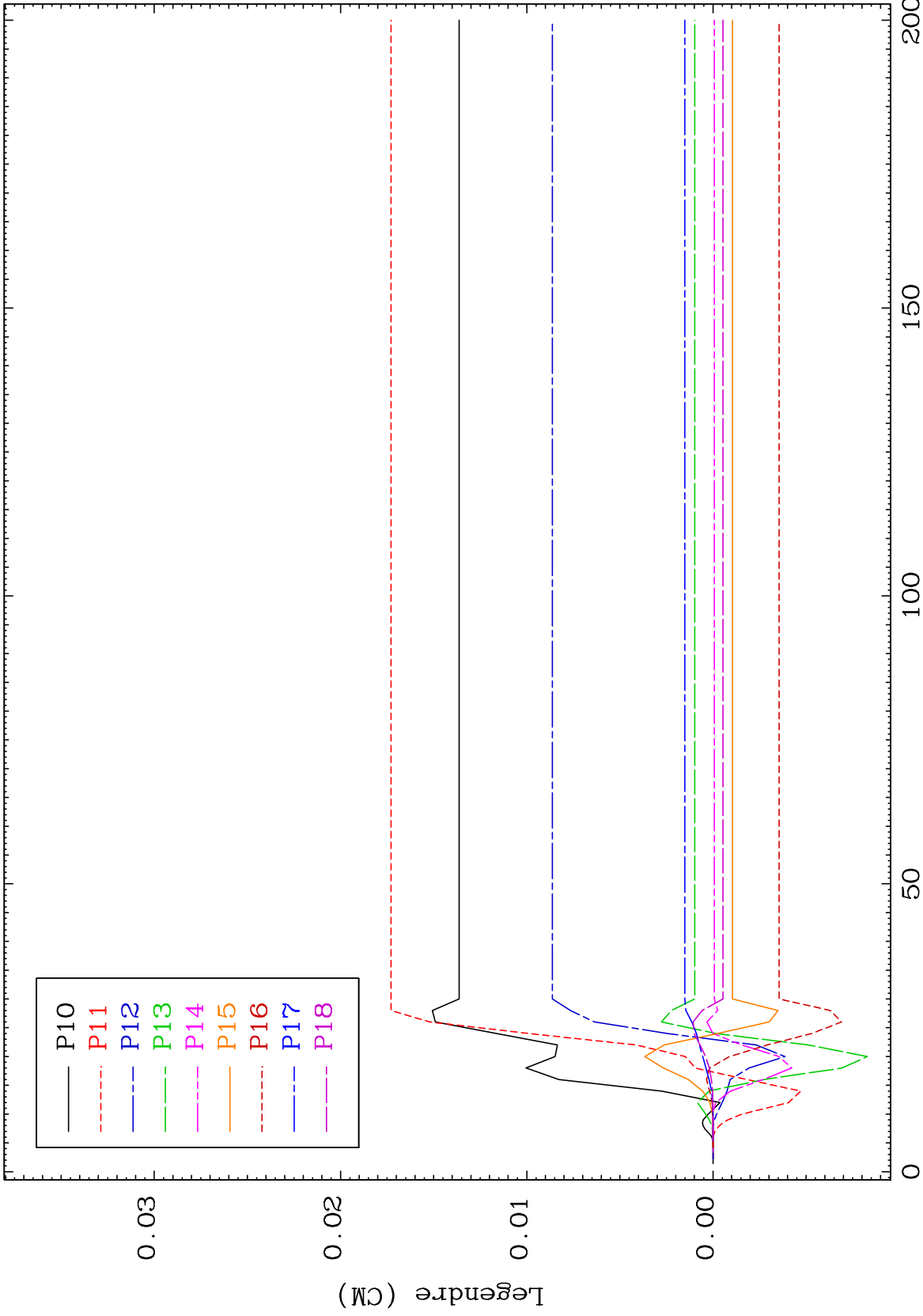
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



44

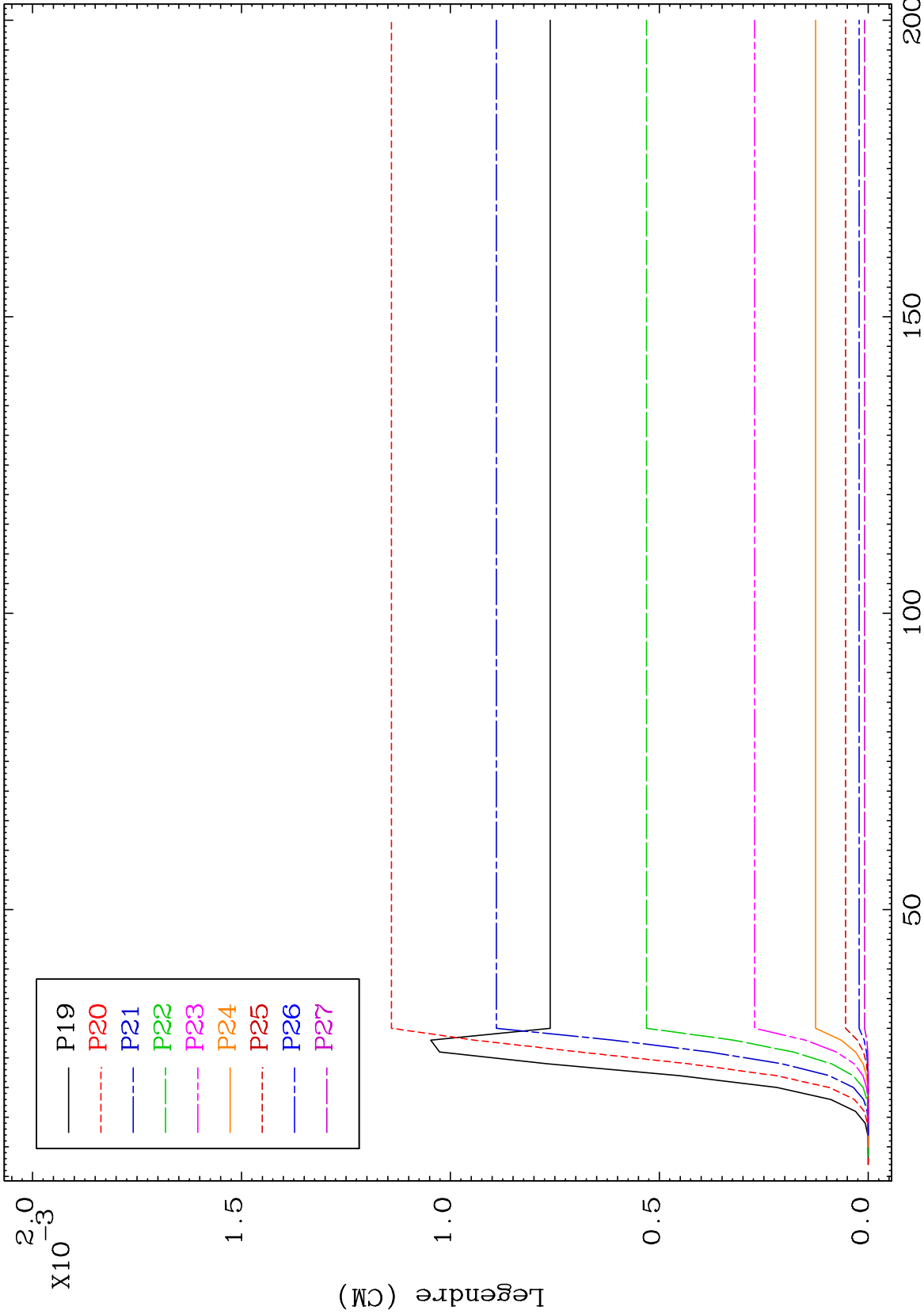
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



45

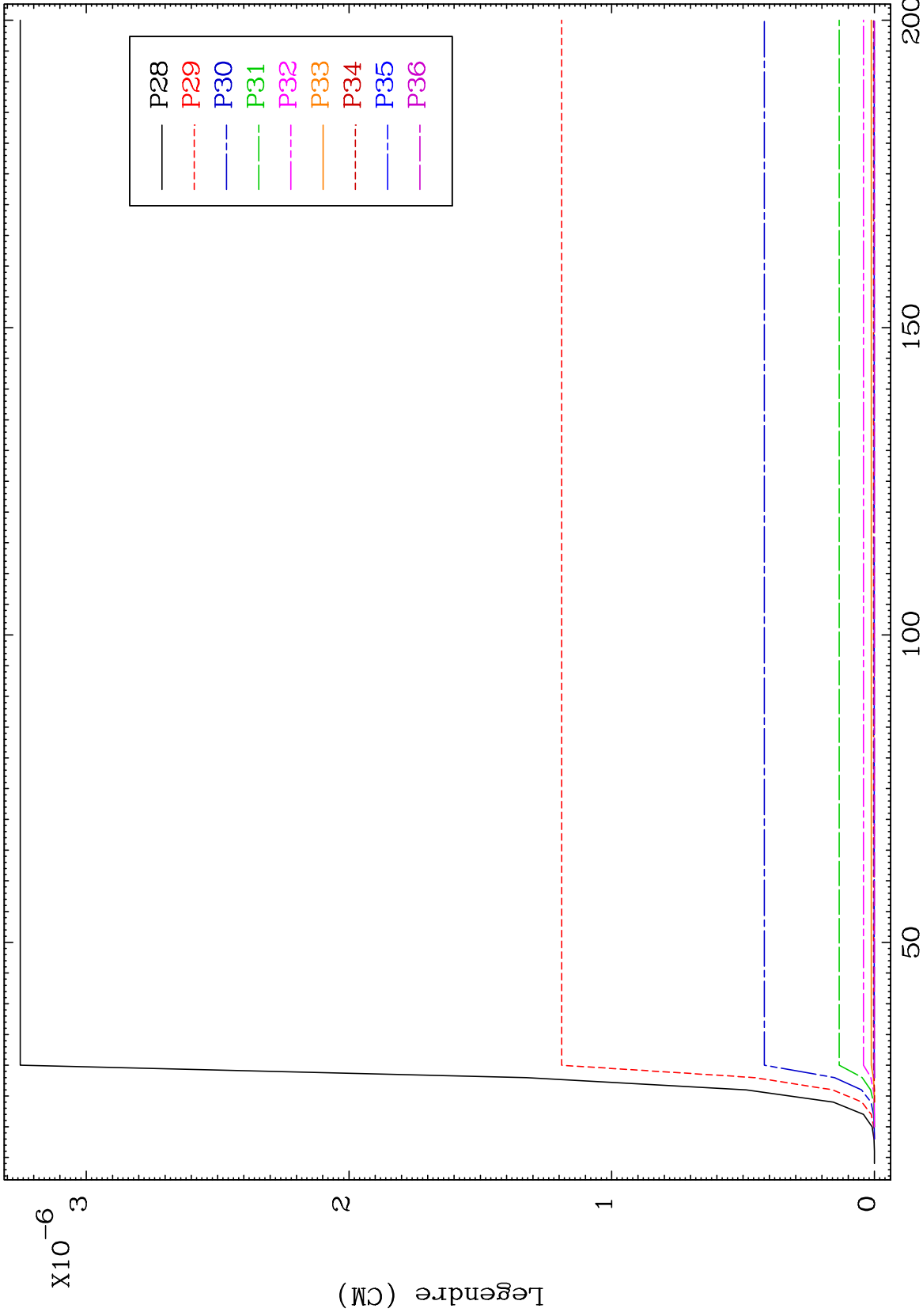
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



46

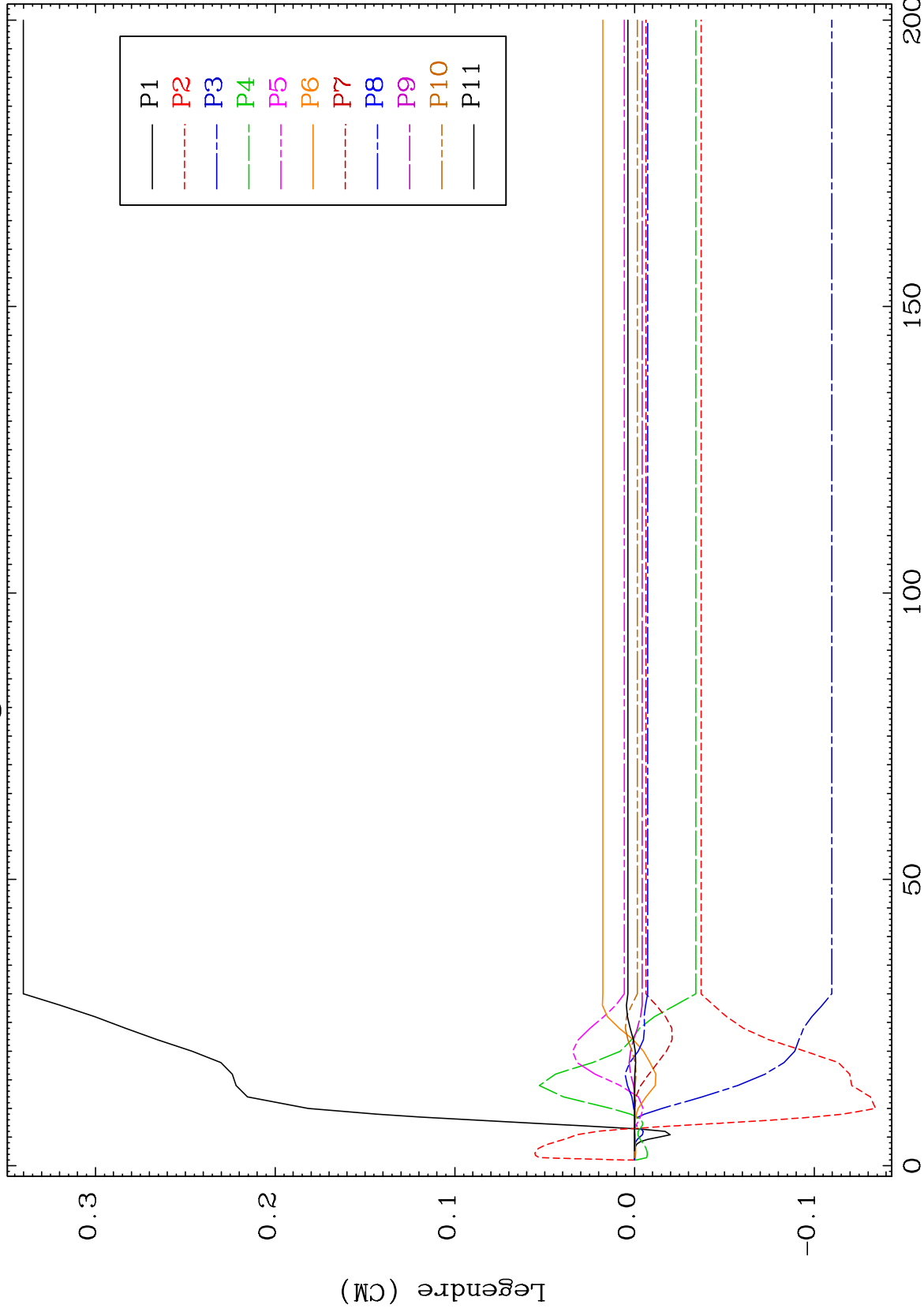
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



47

Incident Energy (MeV)

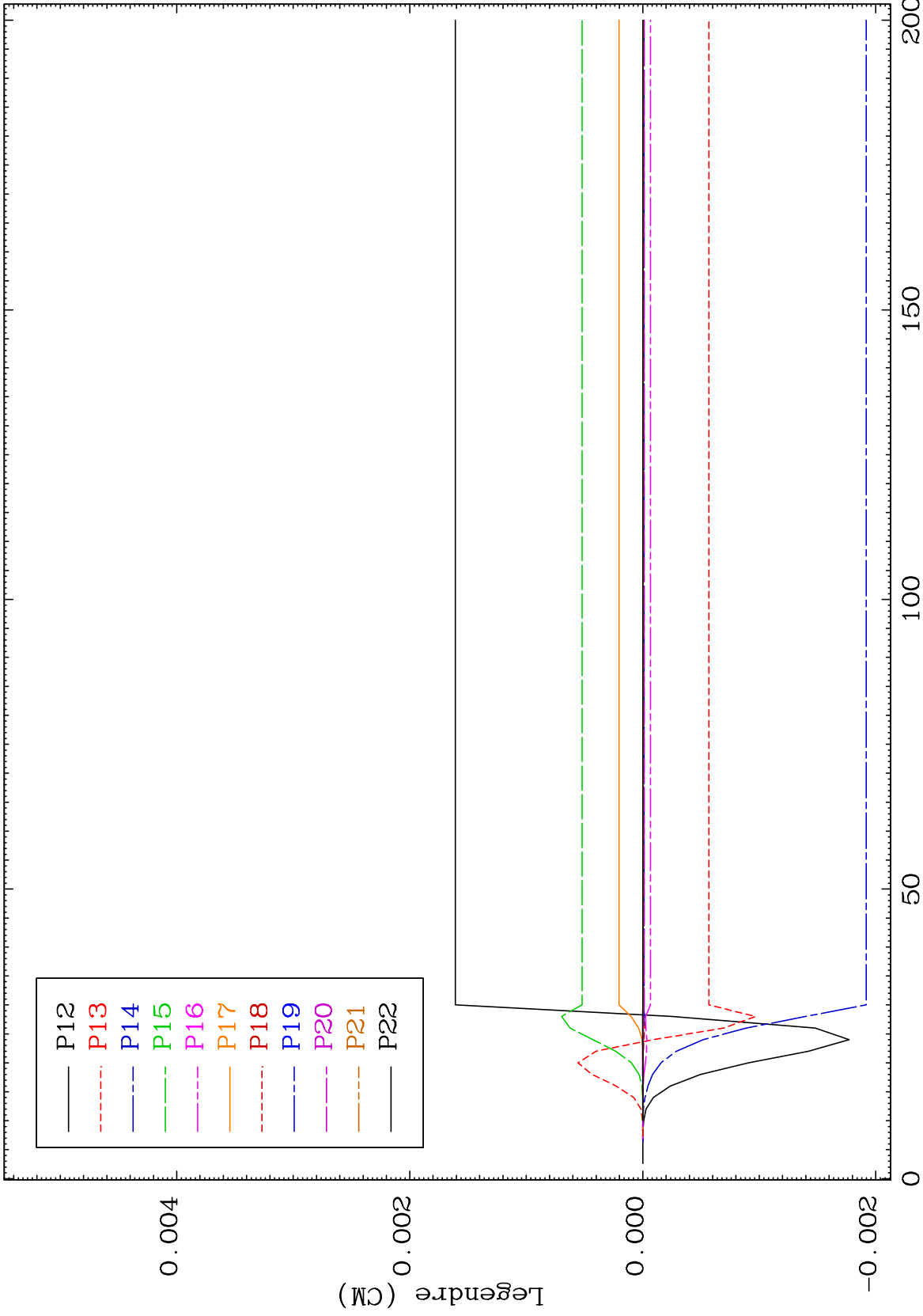
61-Pm-137



MAT 6119

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

61-Pm-137



48

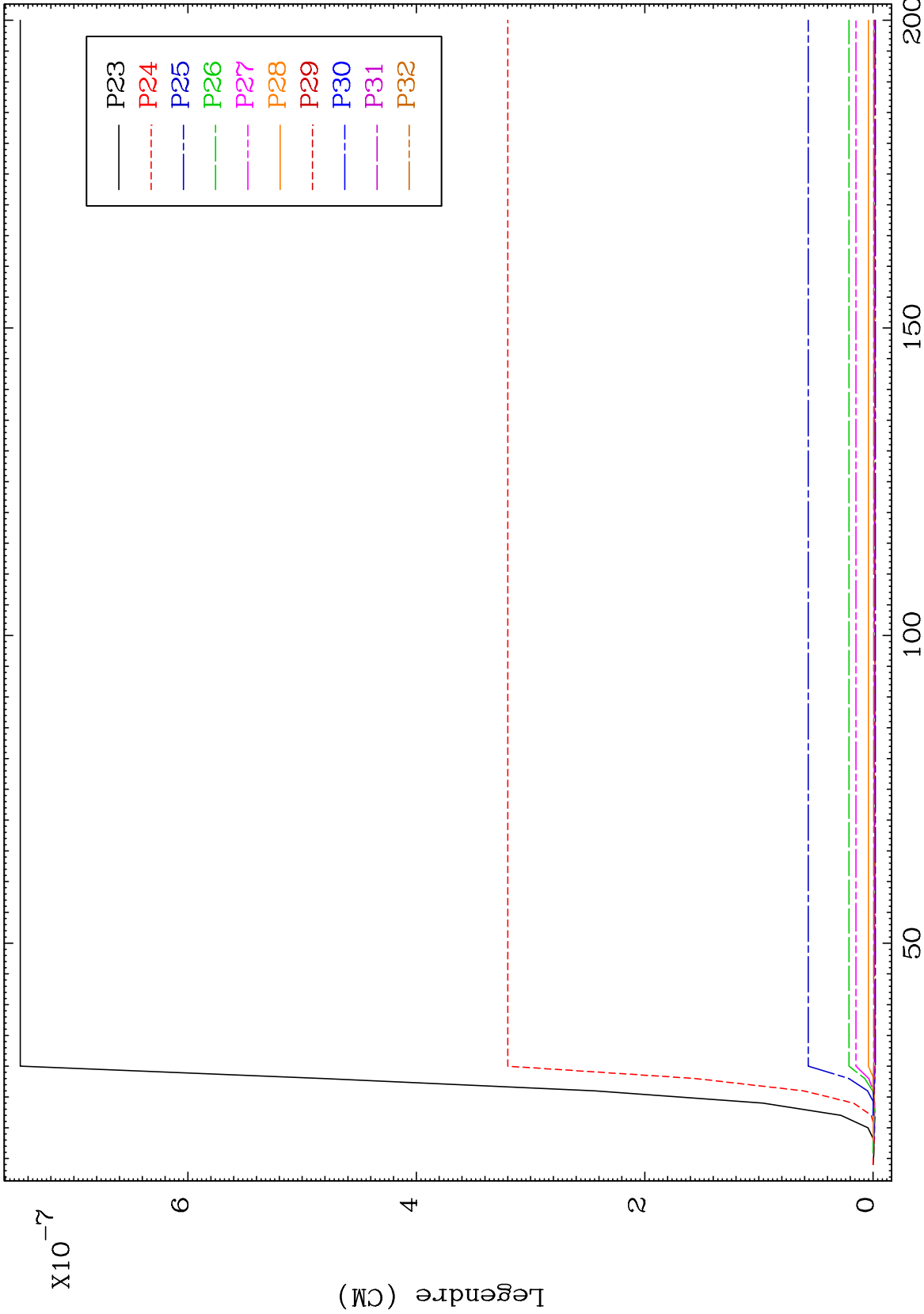
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



49

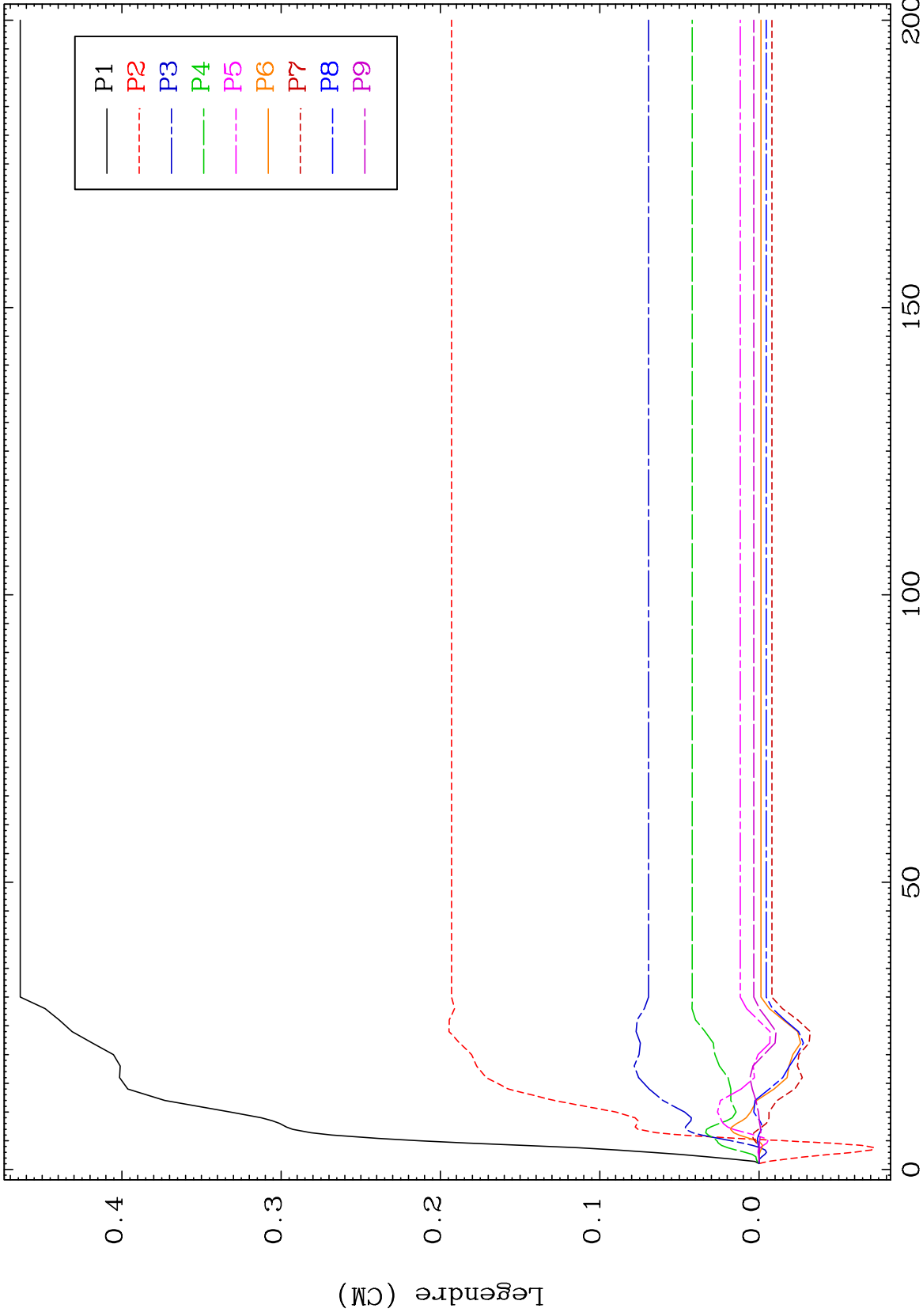
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



61-Pm-137

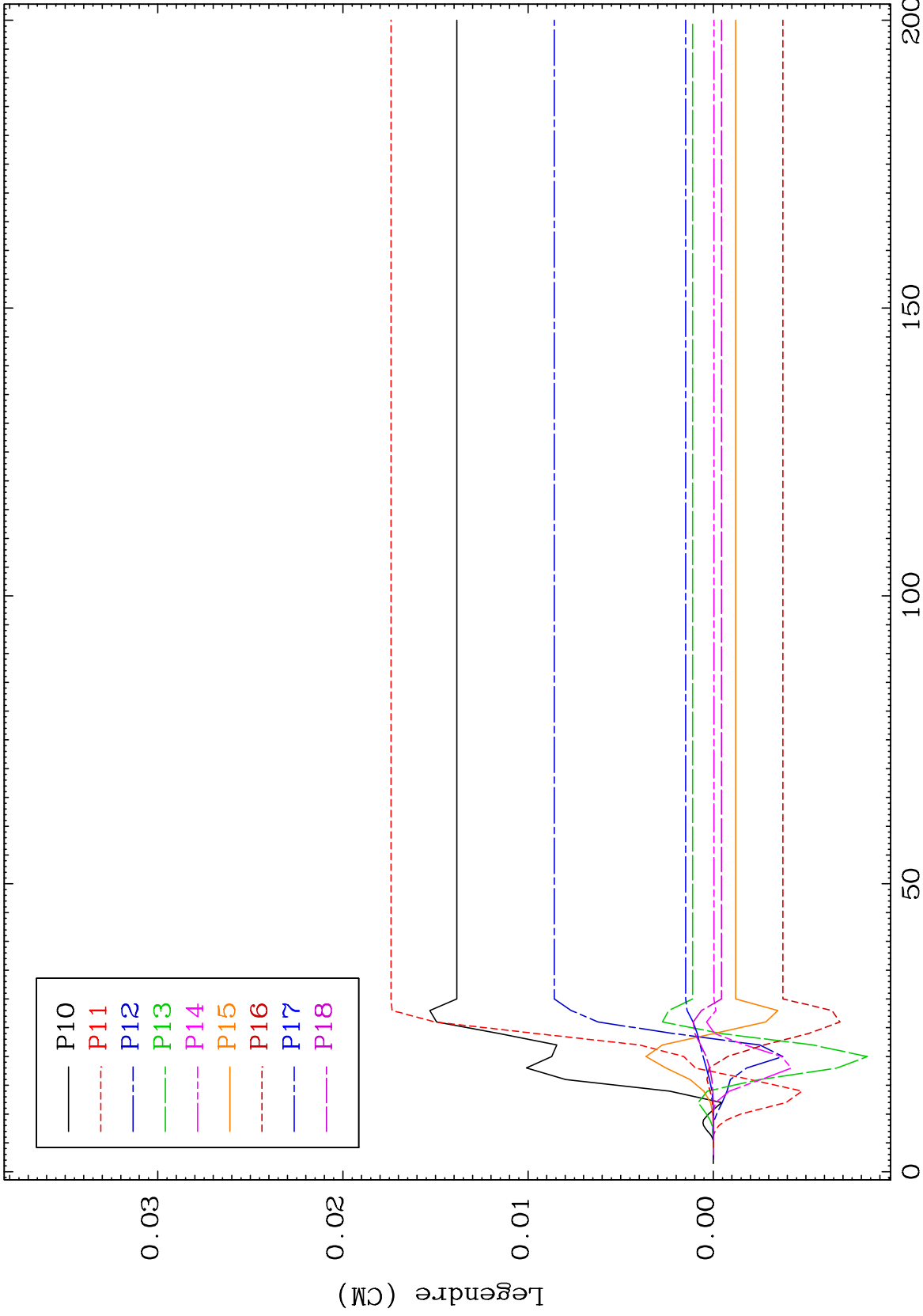
Incident Energy (MeV)

Legendre (CM)

MAT 6119

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

61-Pm-137



51

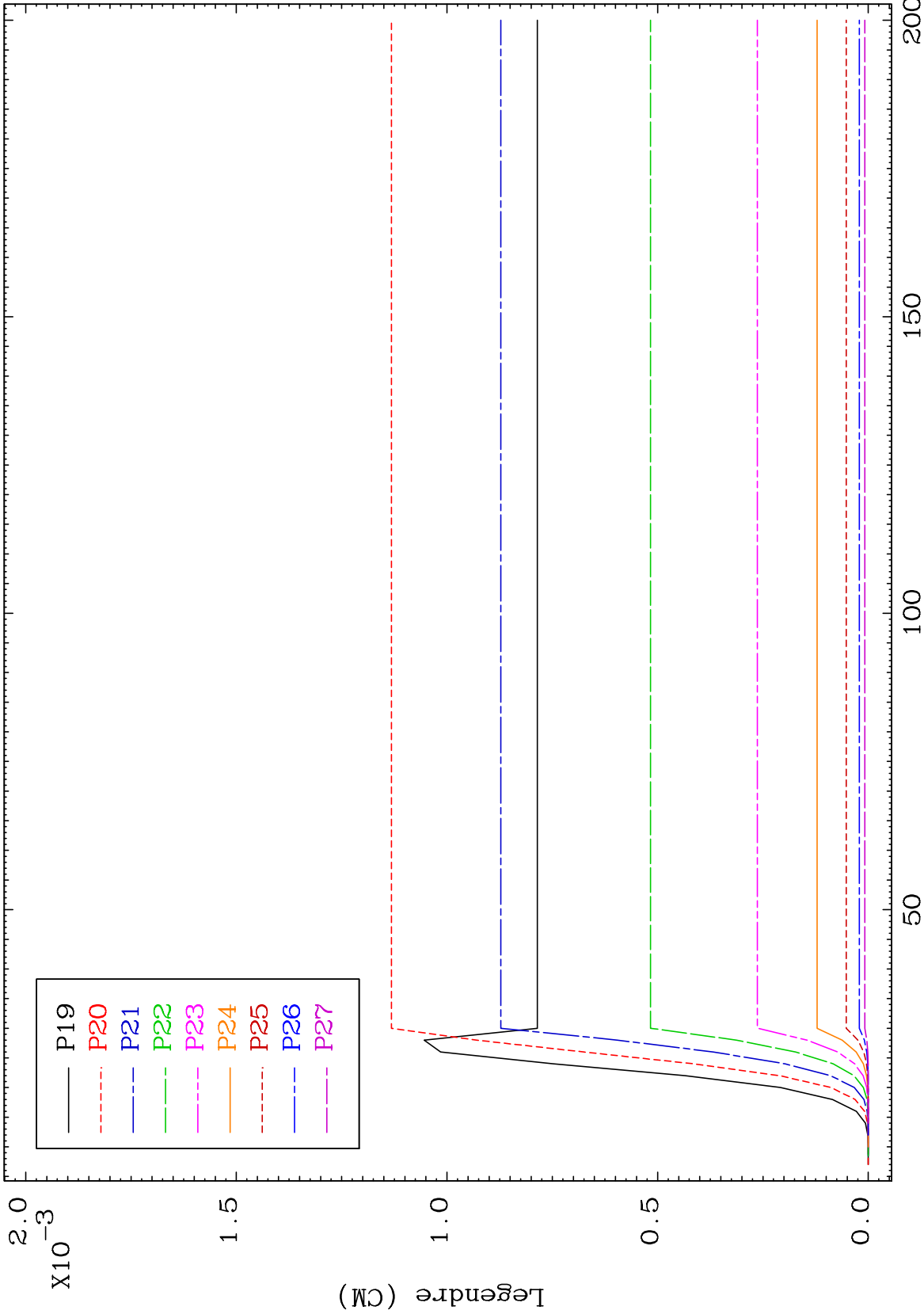
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



52

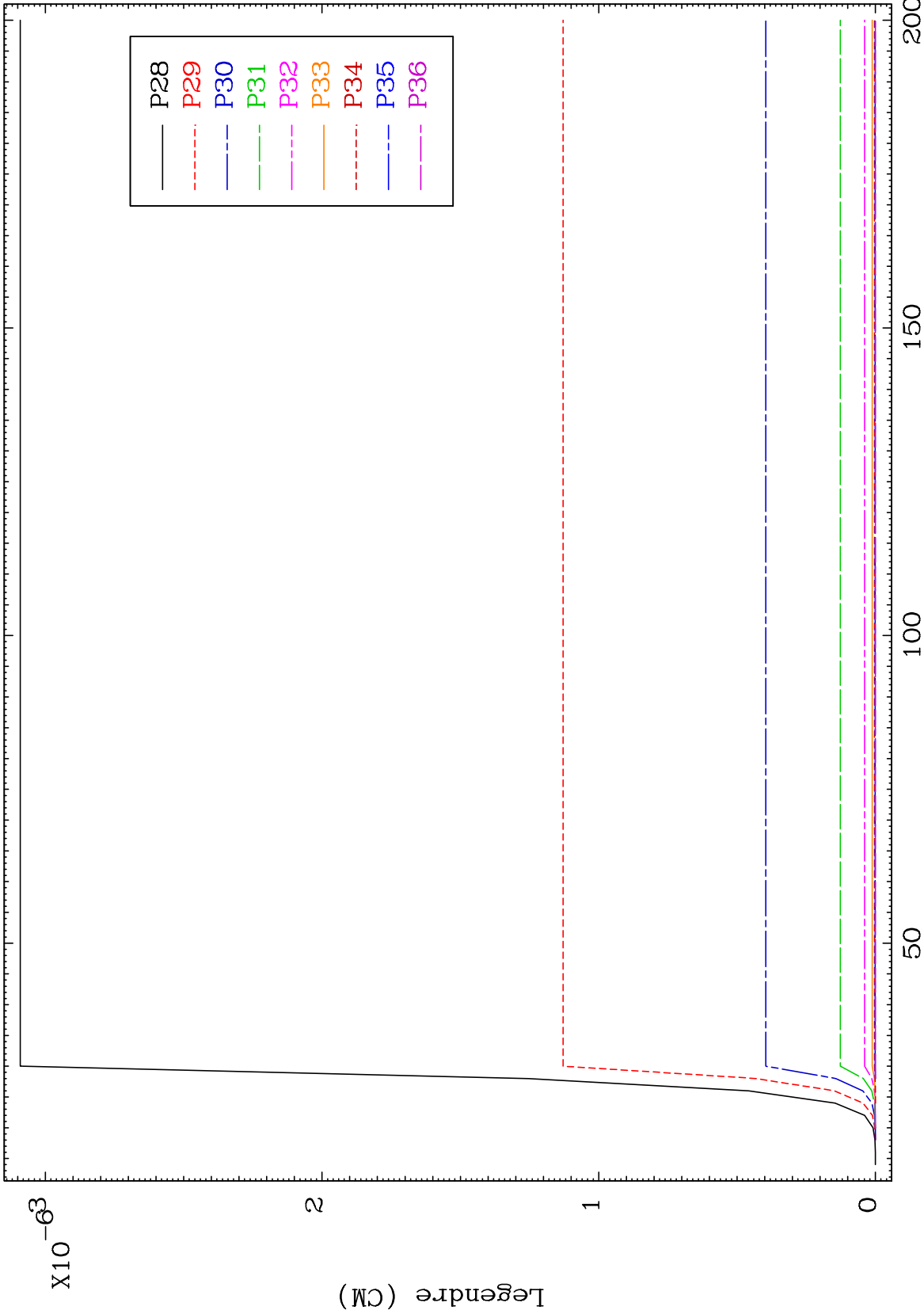
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



53

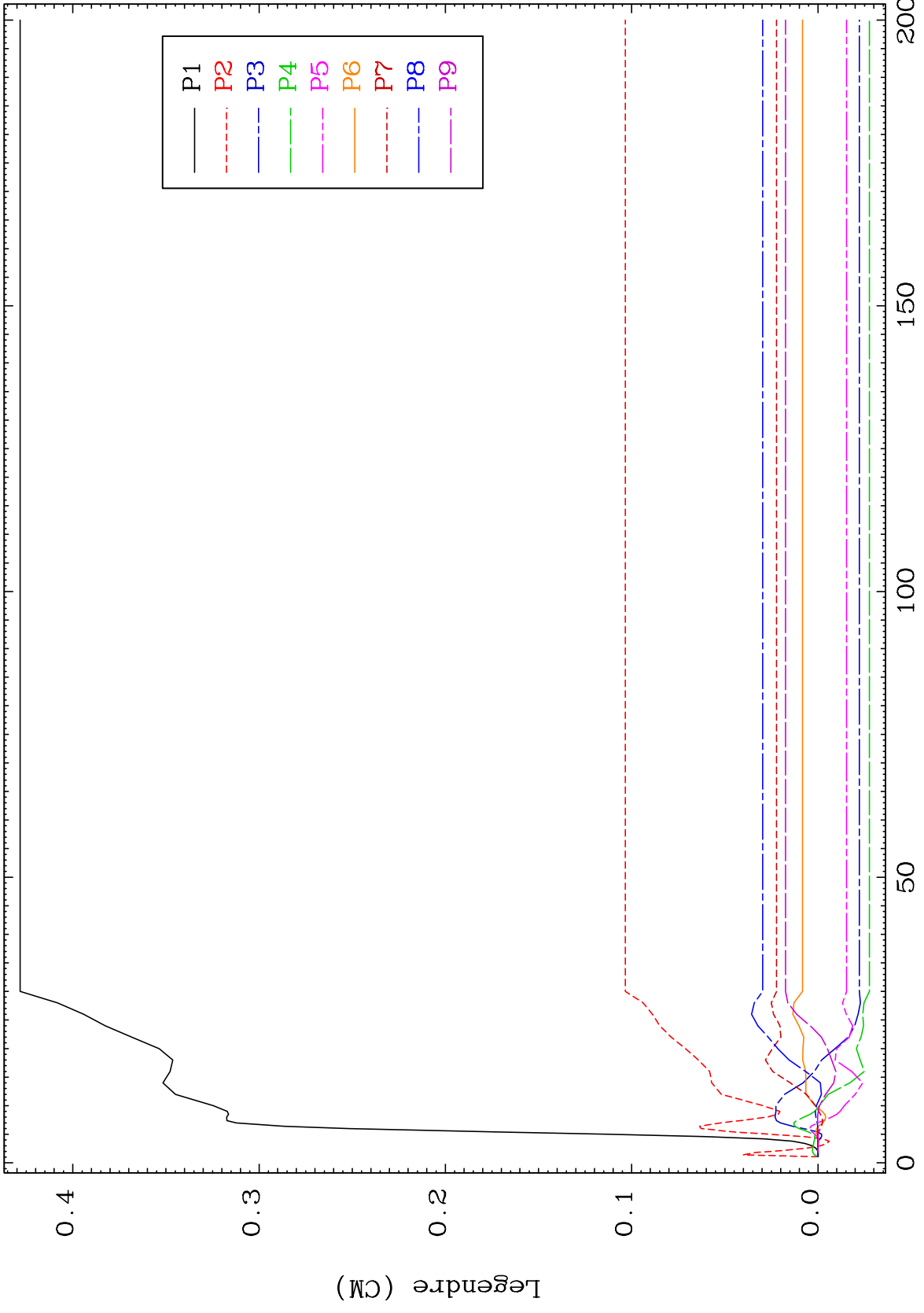
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



54

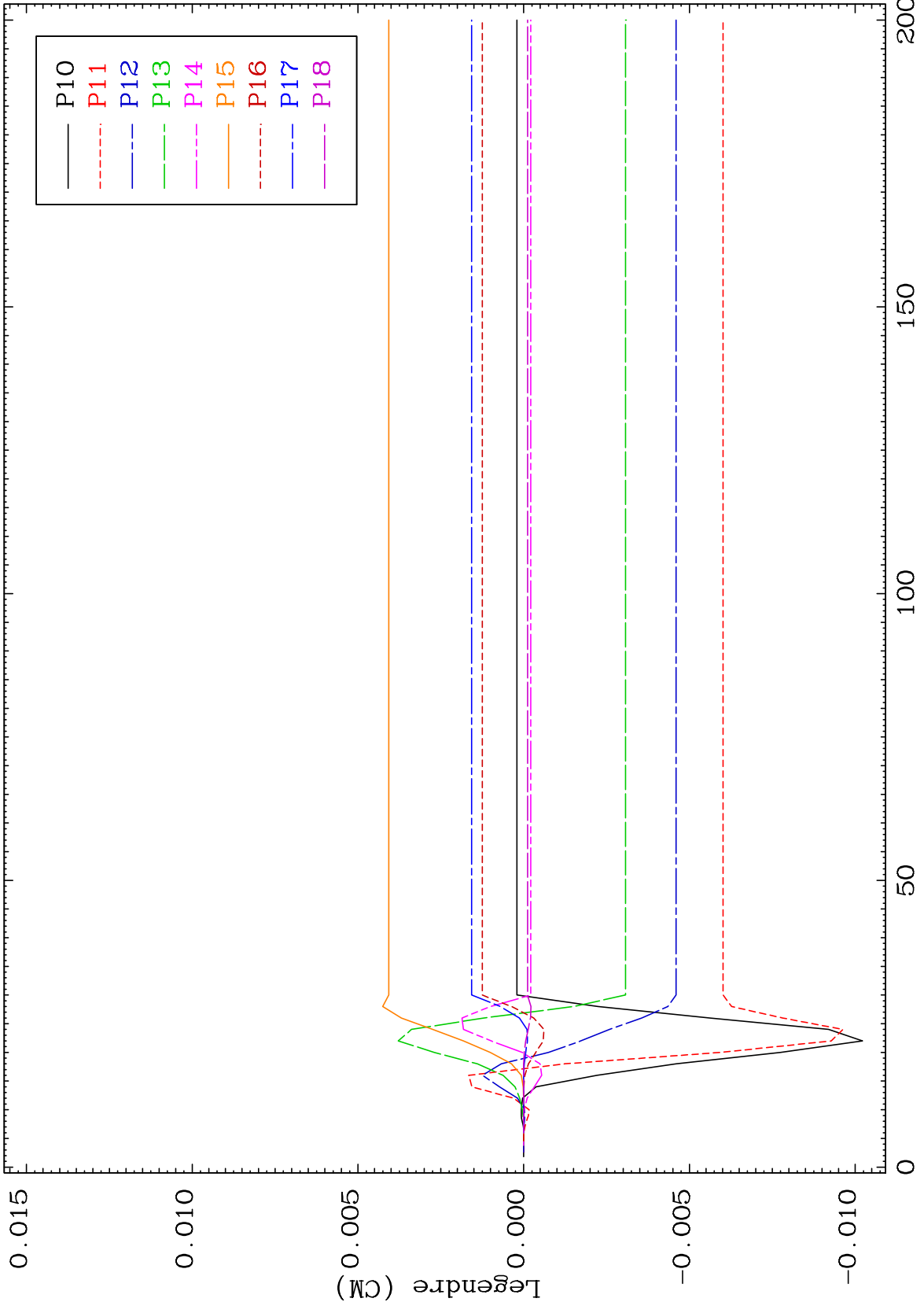
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



55

Incident Energy (MeV)

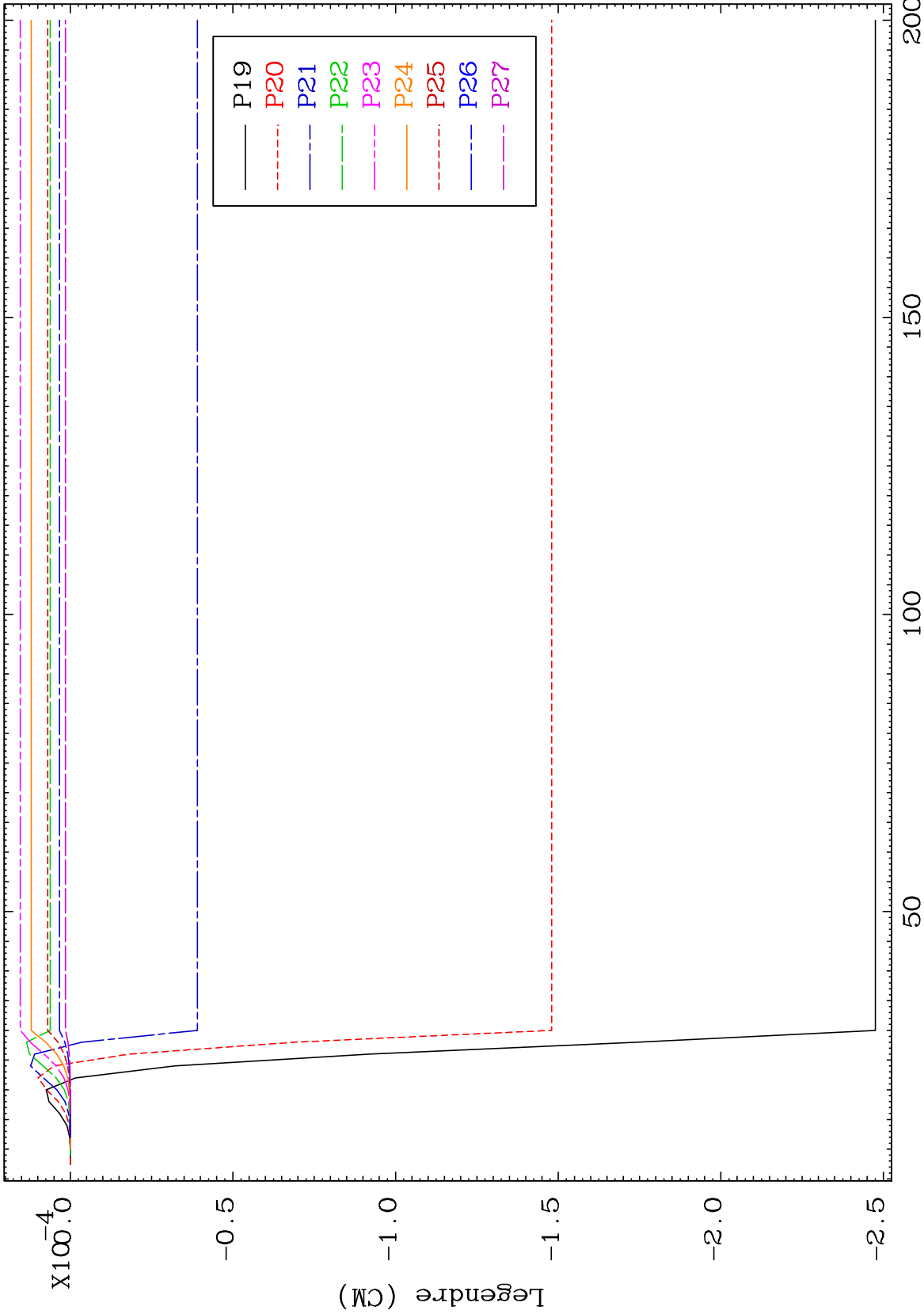
61-Pm-137



MAT 6119

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

61-Pm-137



56

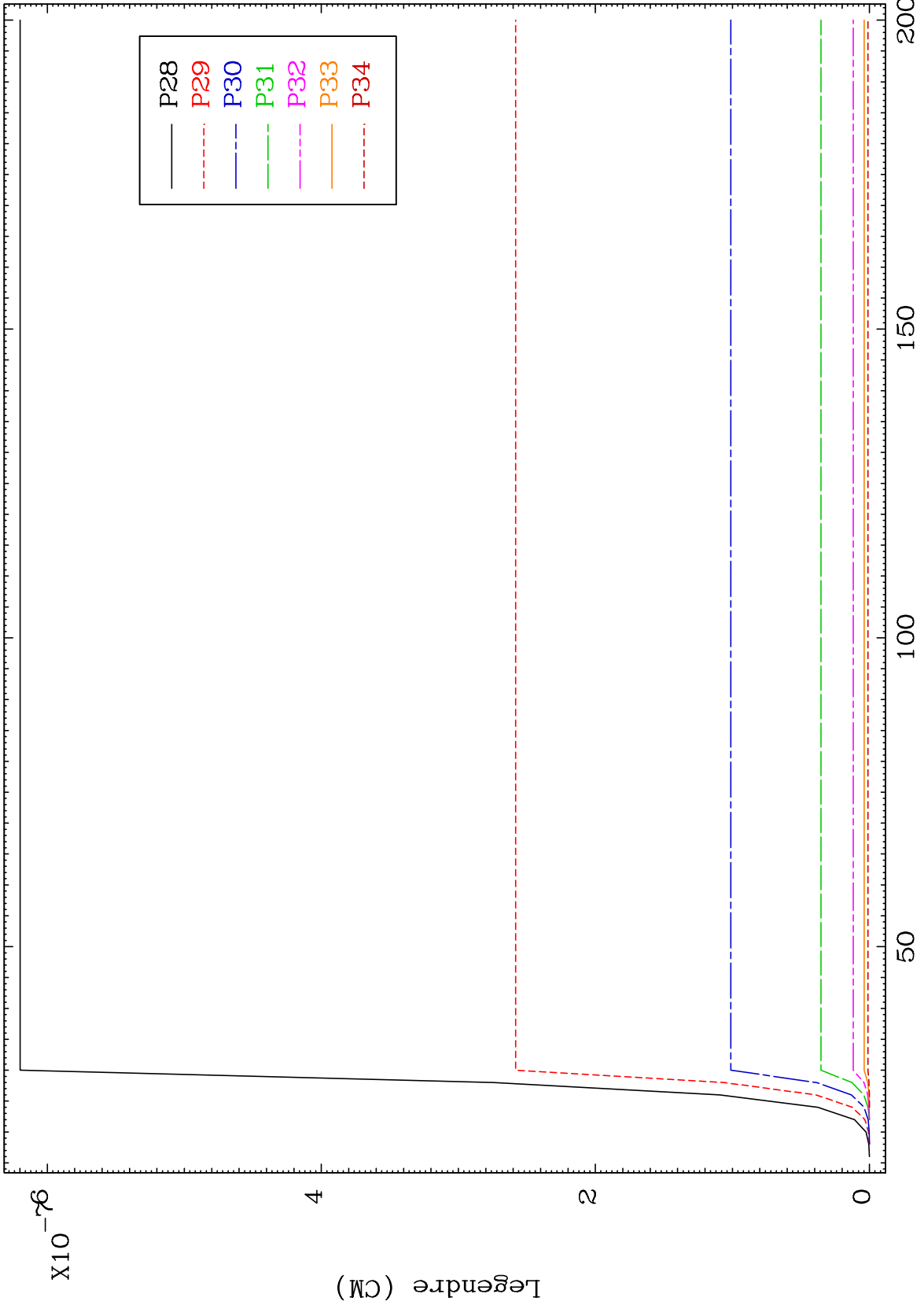
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



57

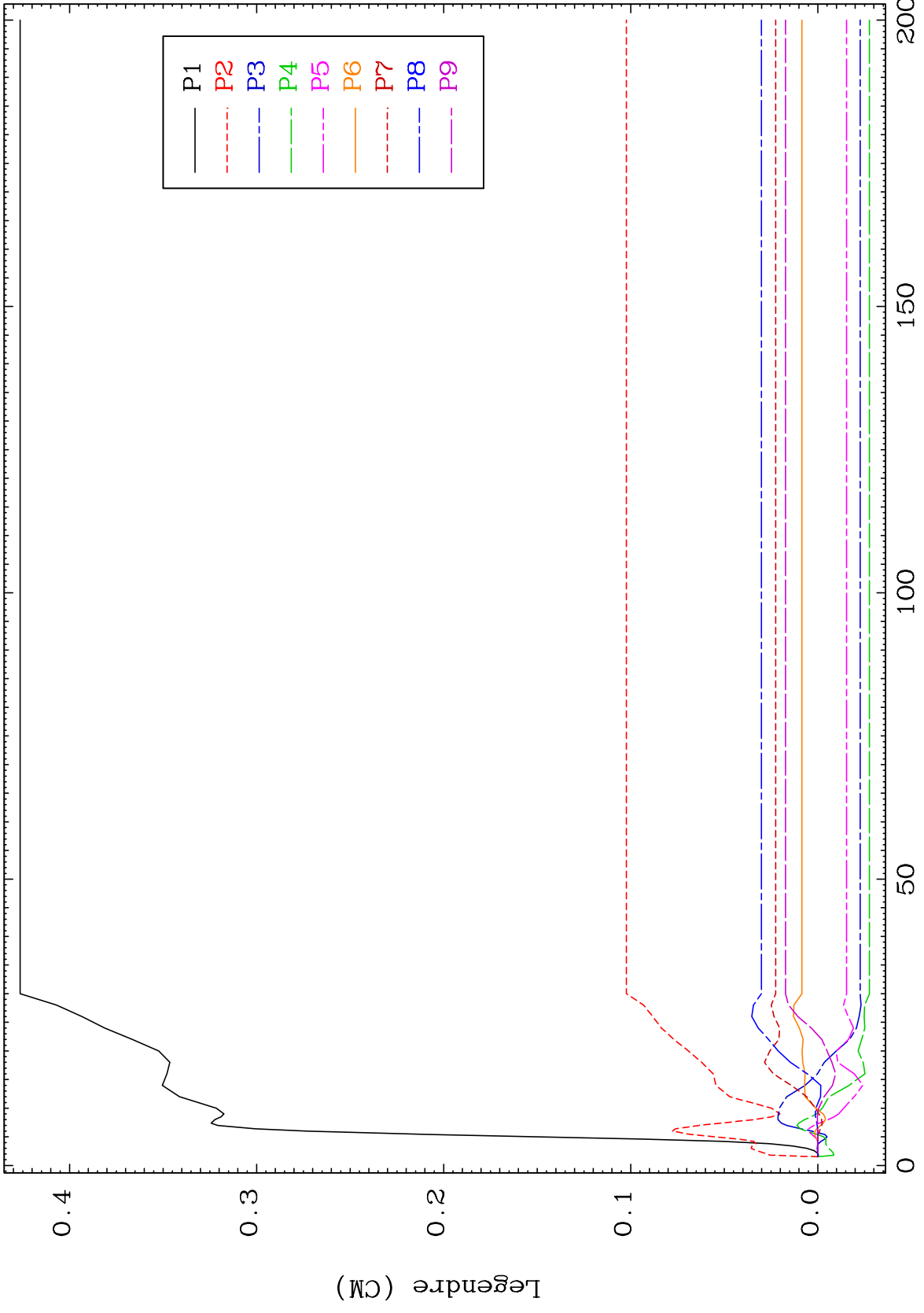
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



58

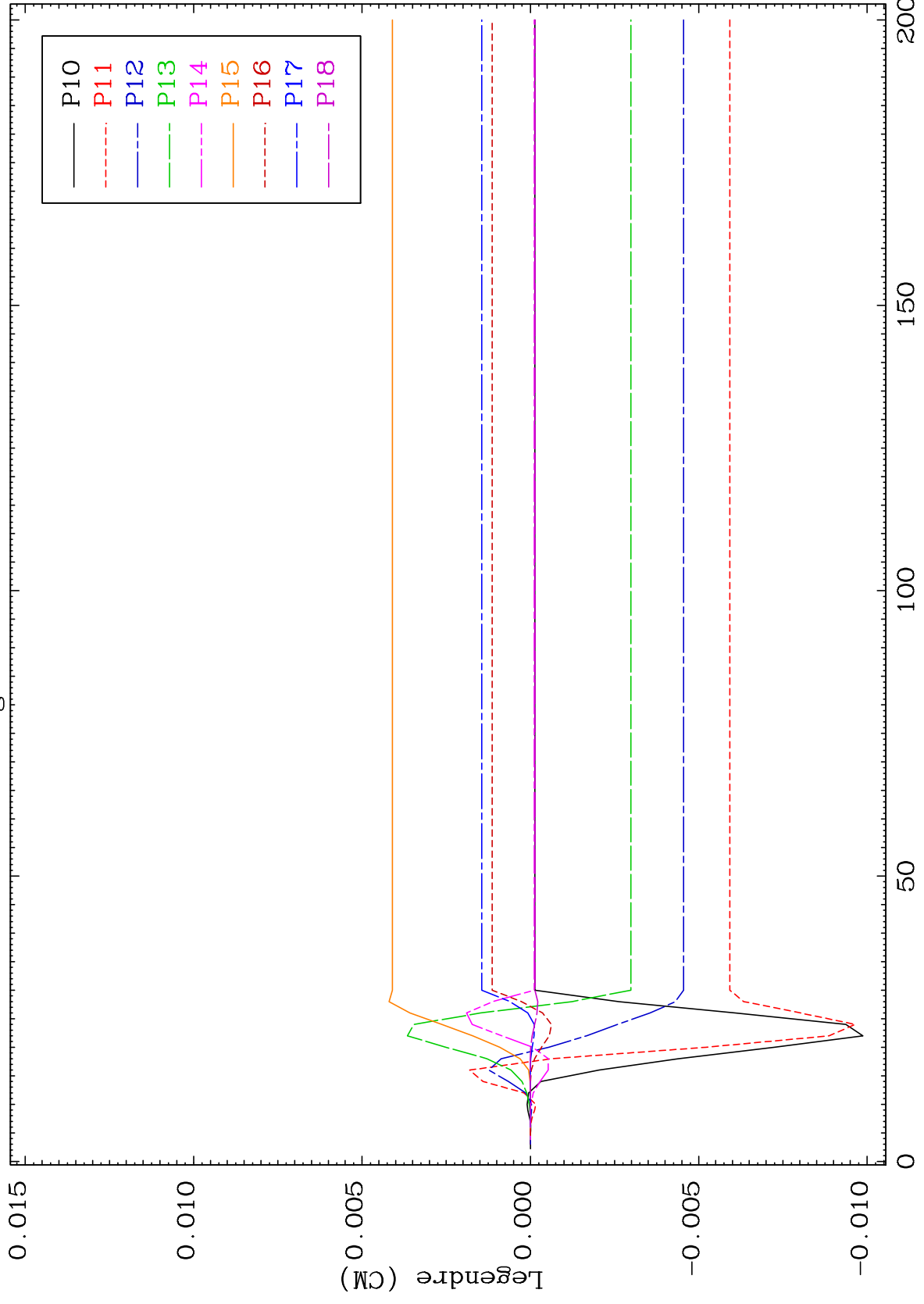
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



59

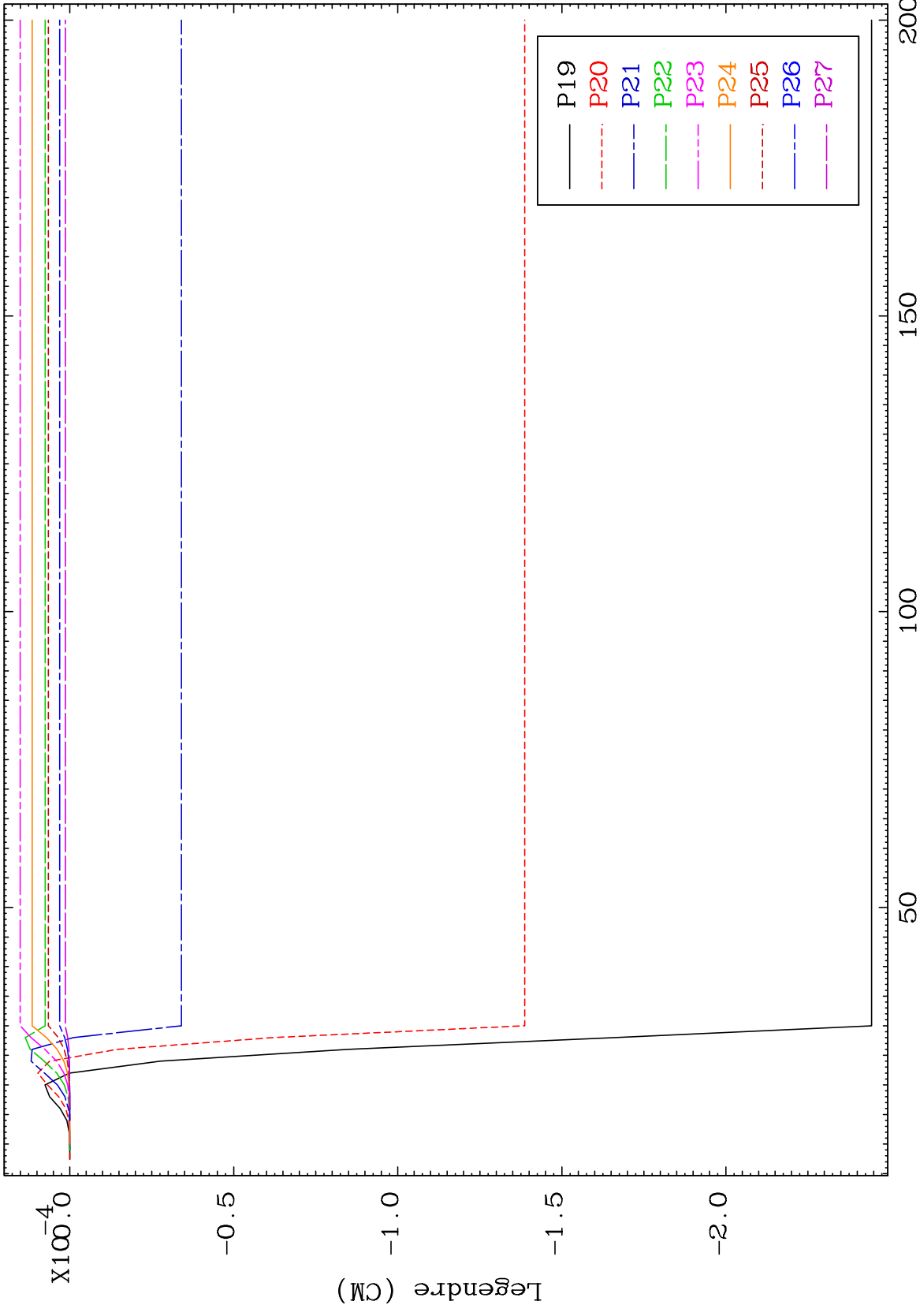
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



61-Pm-137

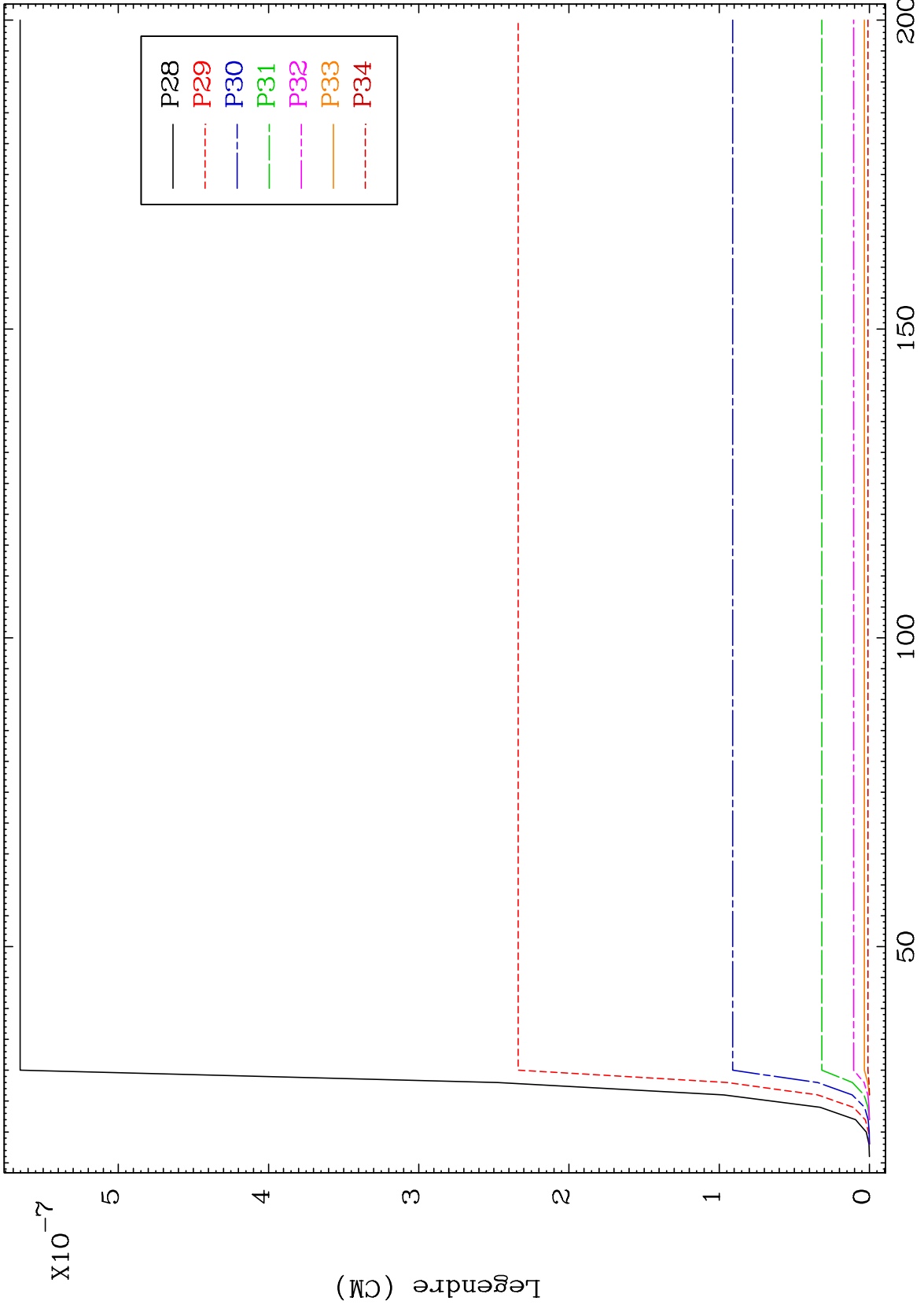
Incident Energy (MeV)

60

MAT 6119

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

61-Pm-137



61

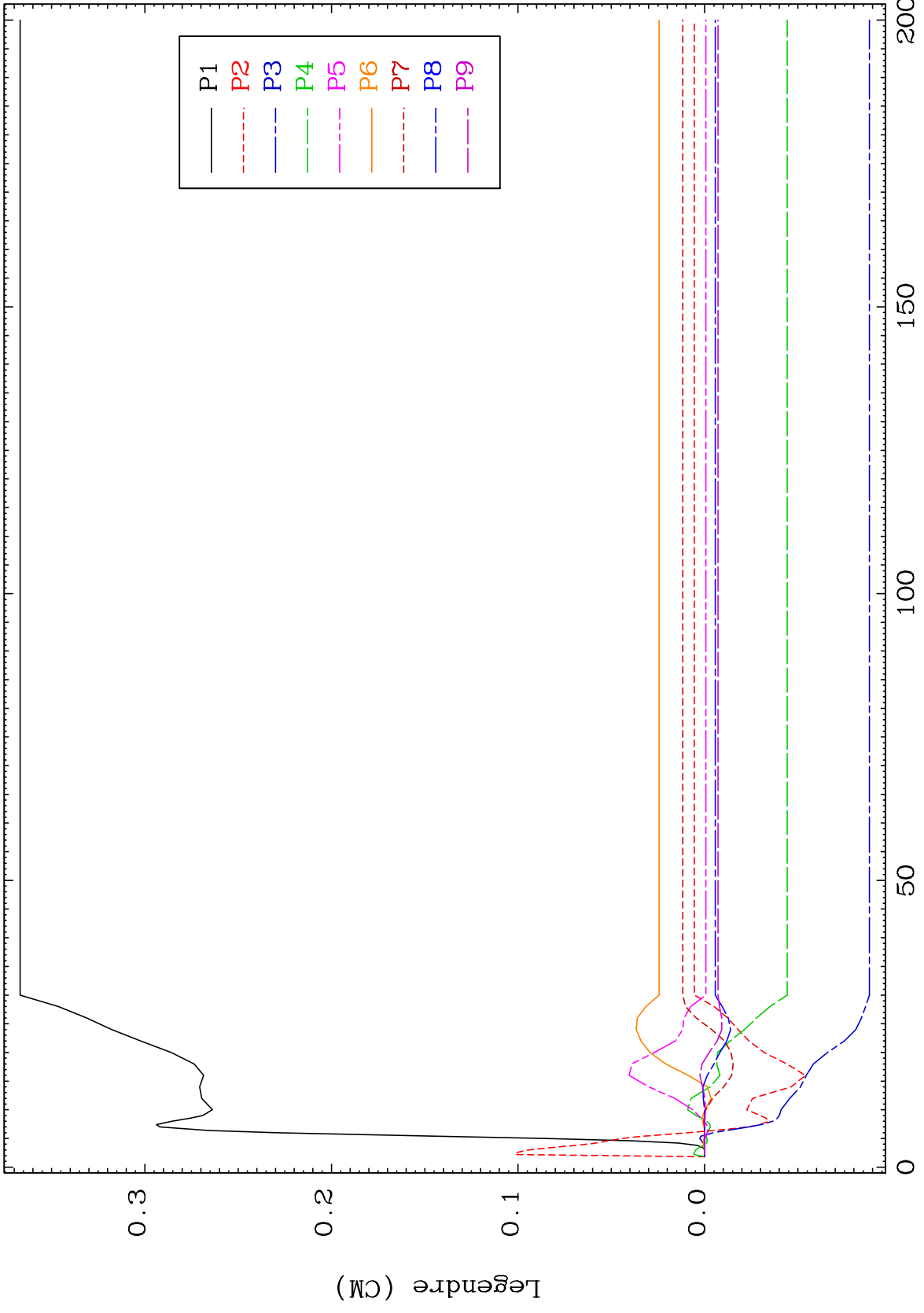
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



62

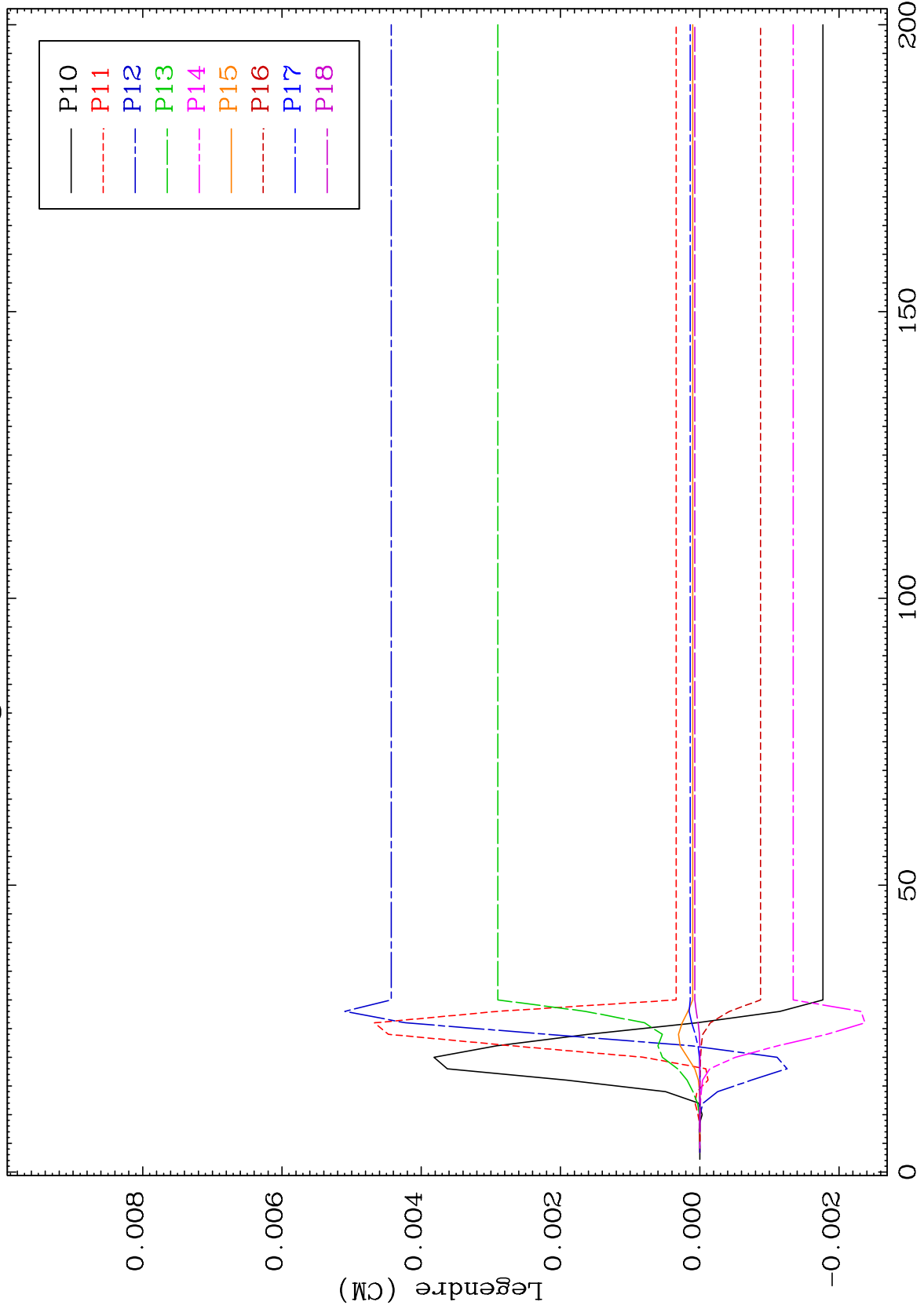
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



63

Incident Energy (MeV)

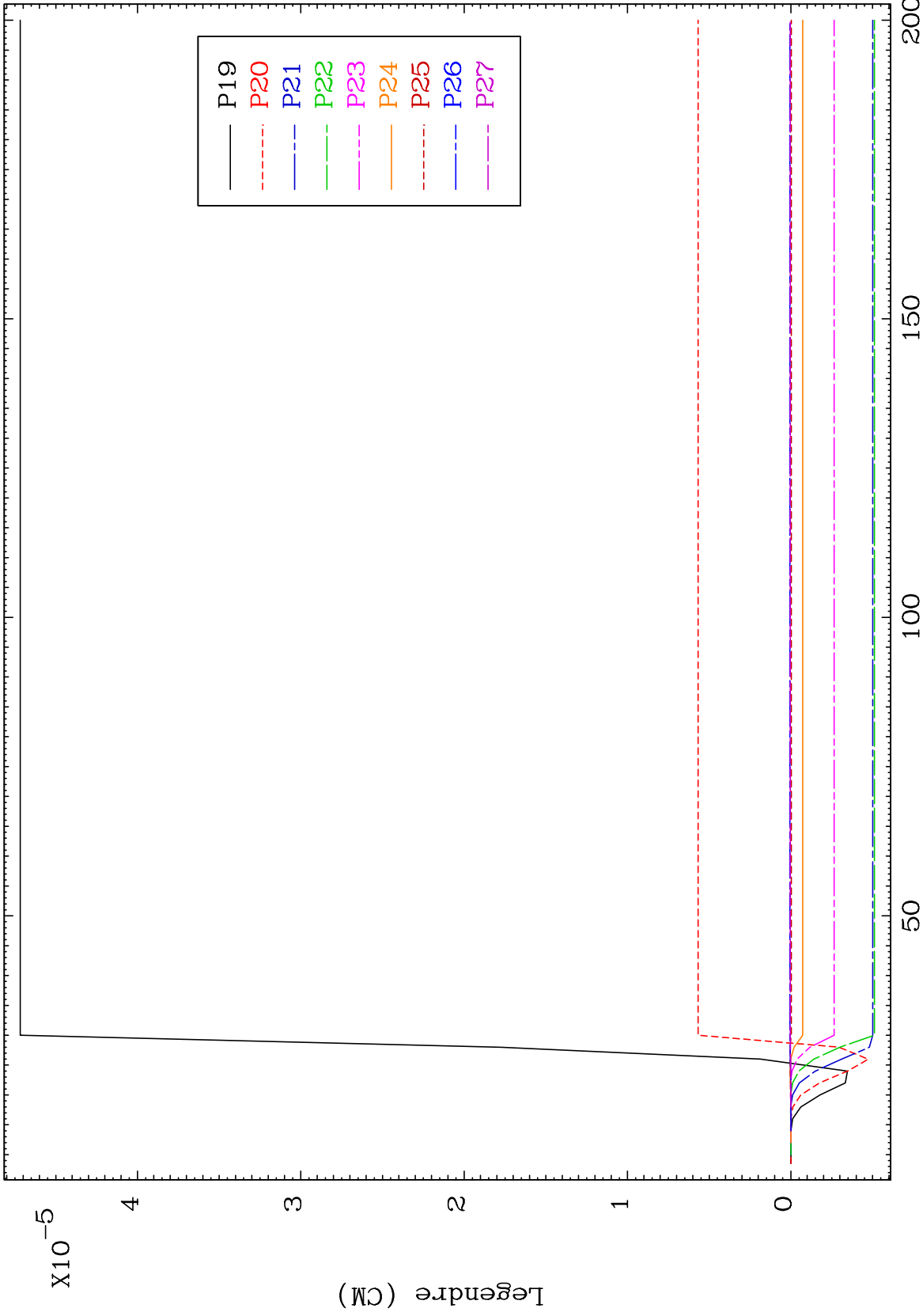
61-Pm-137



MAT 6119

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

61-Pm-137



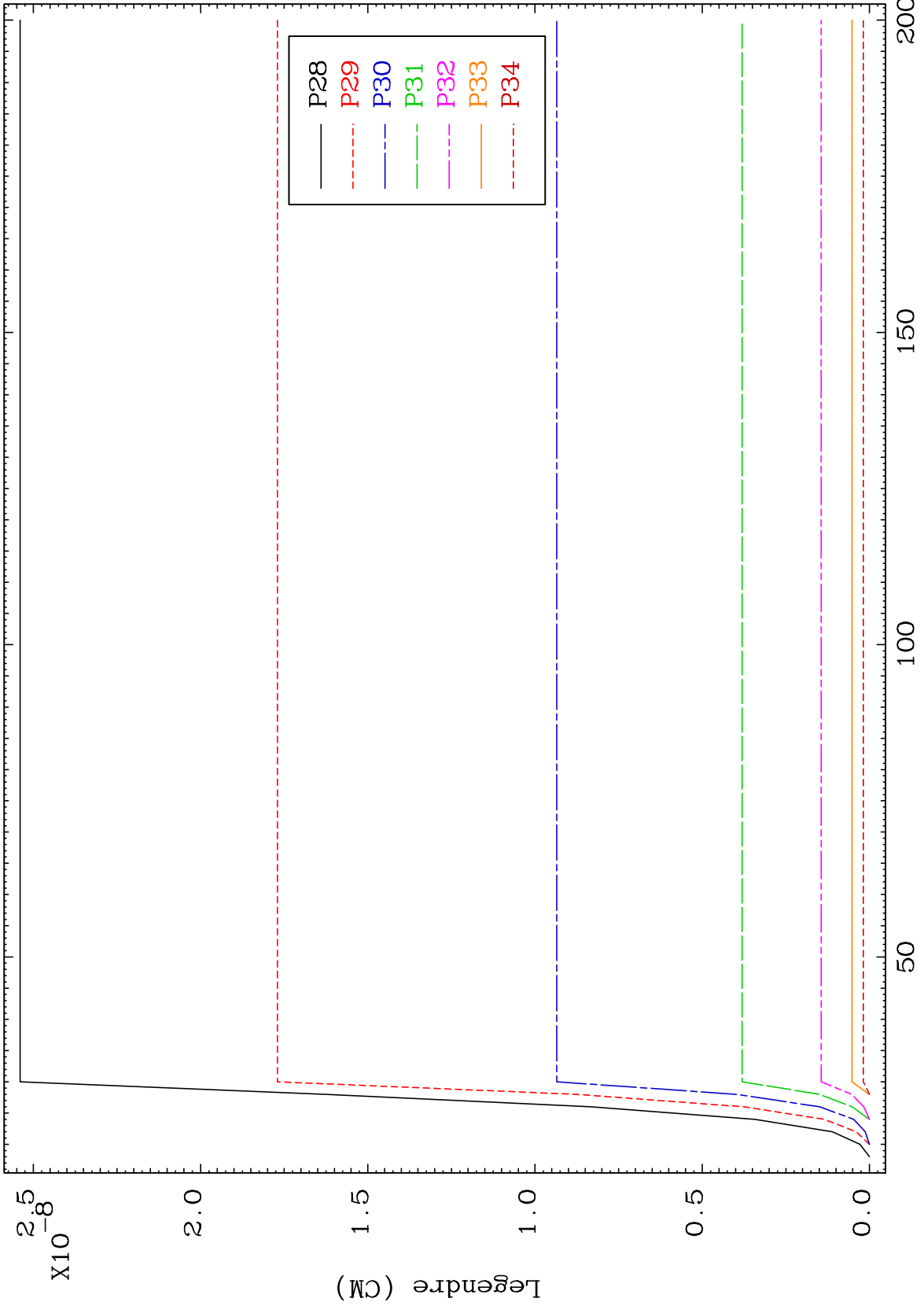
64

61-Pm-137

MAT 6119

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

61-Pm-137



65

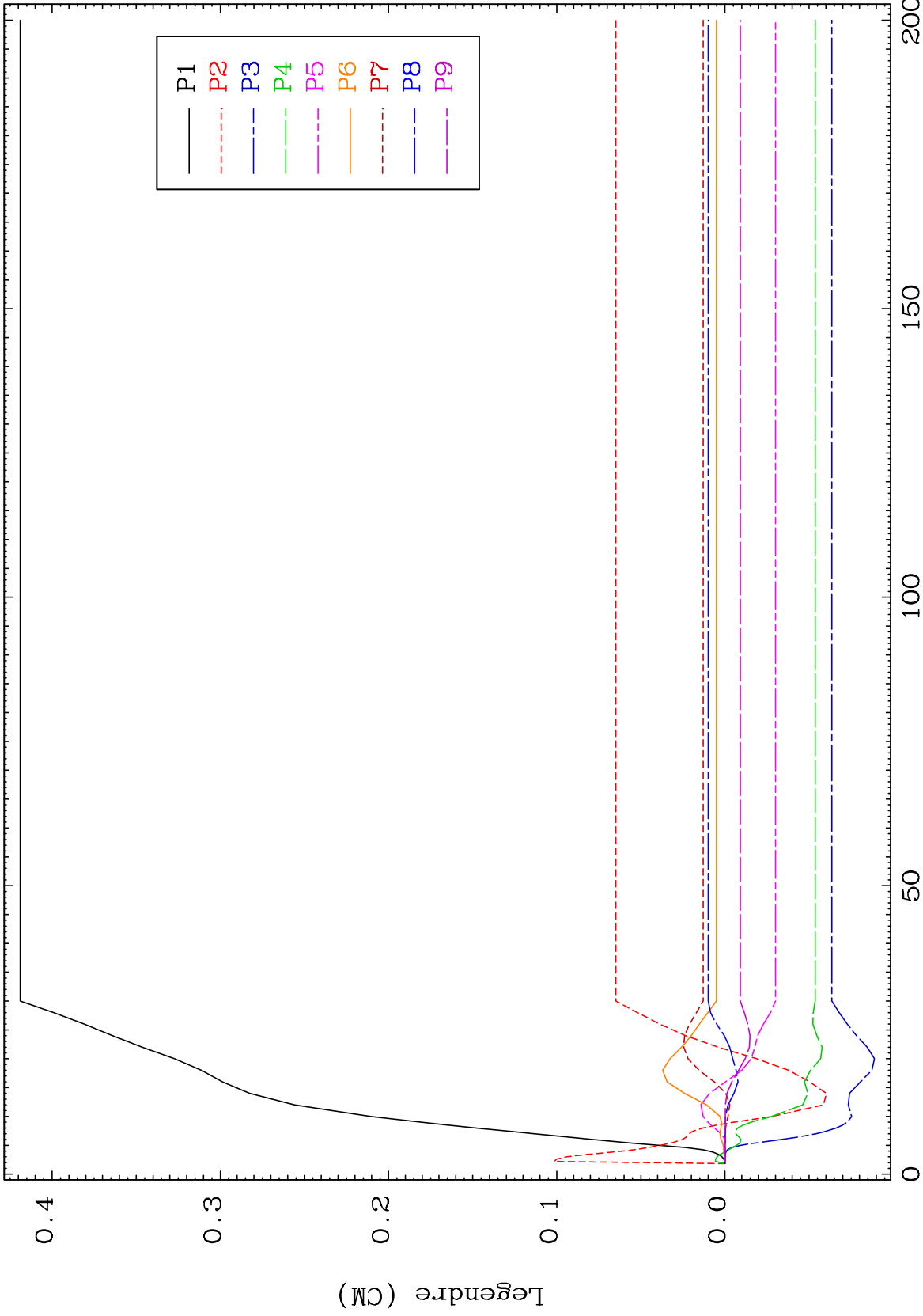
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



66

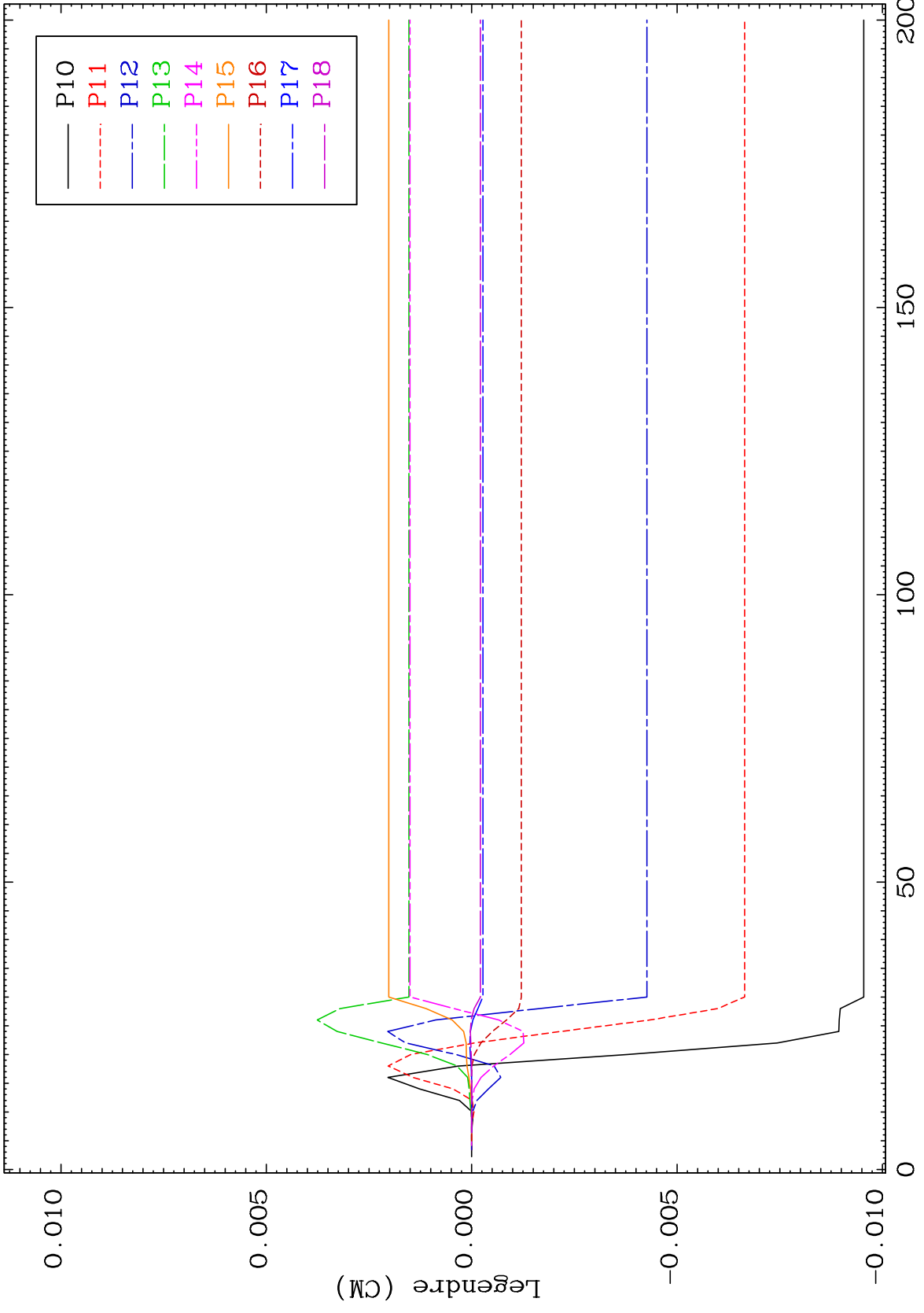
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



67

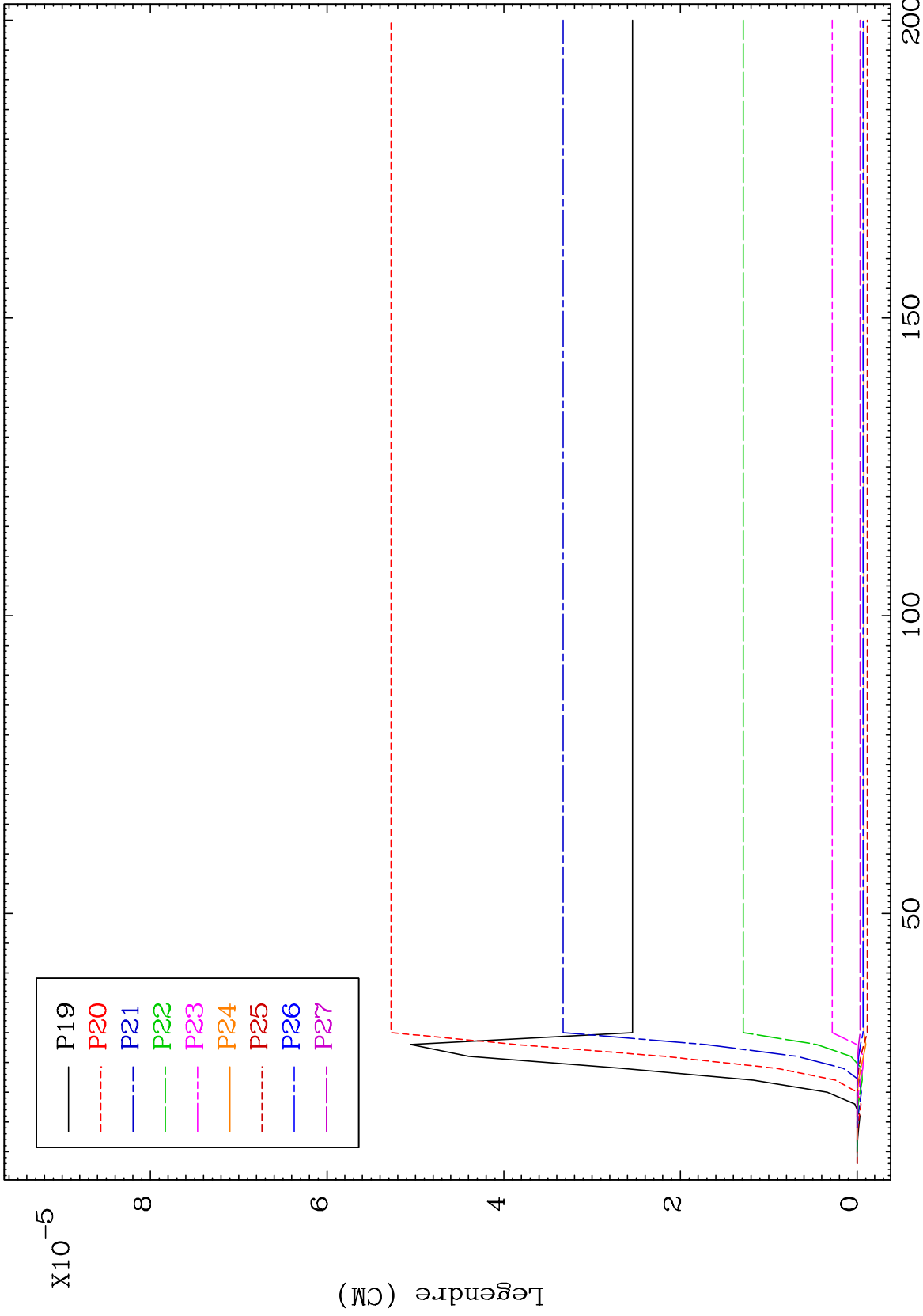
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



68

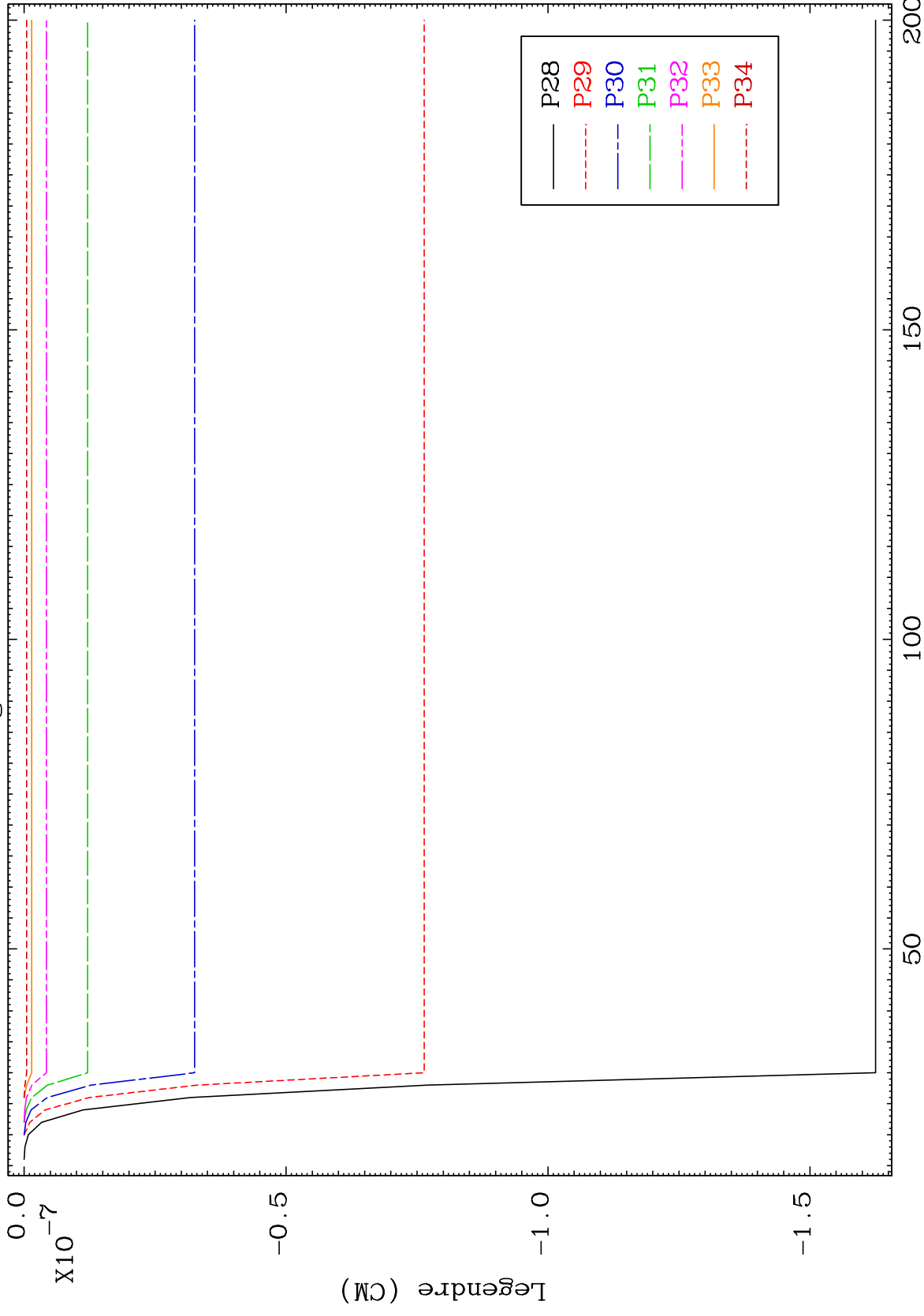
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



61-Pm-137

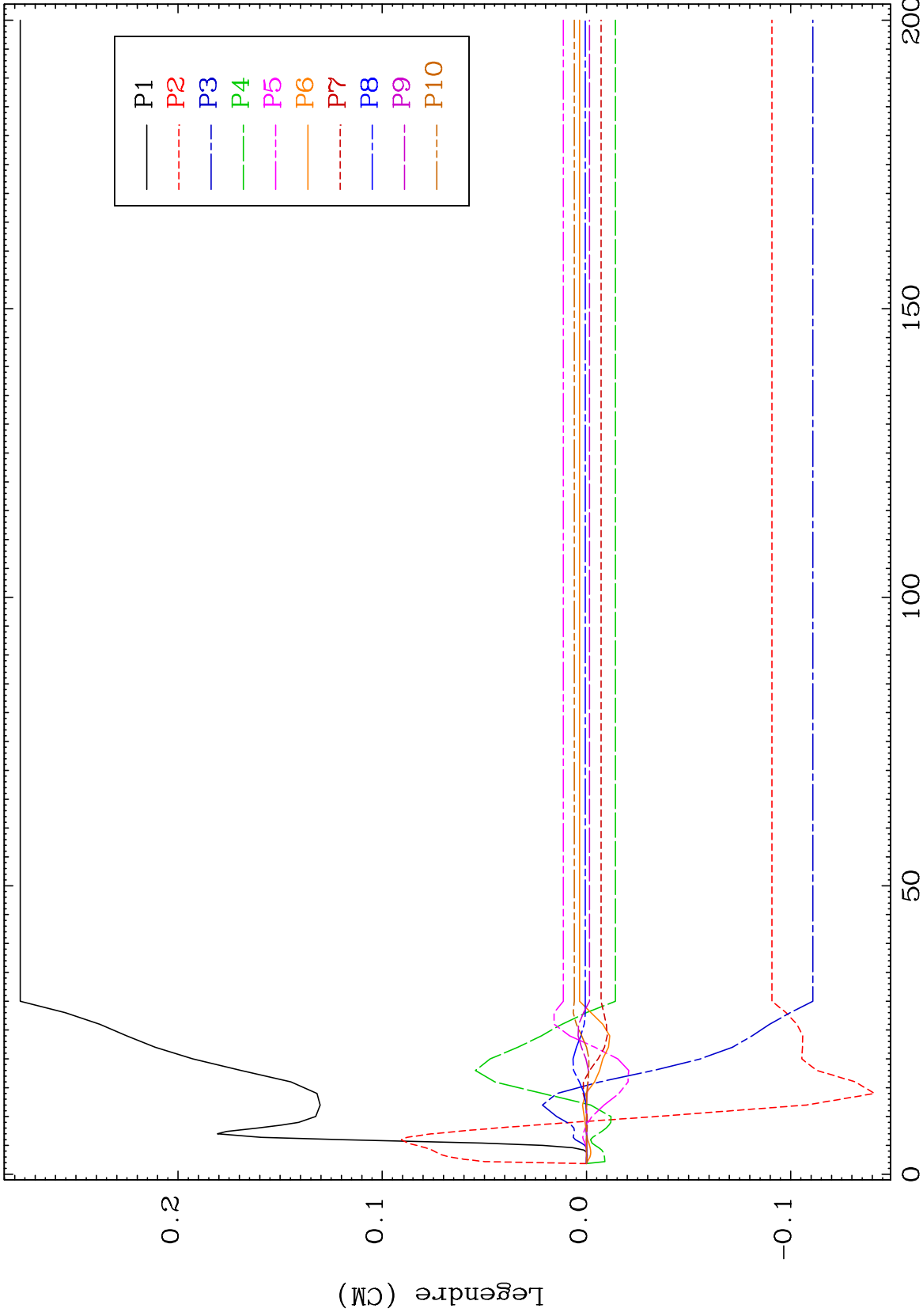
Incident Energy (MeV)

69

MAT 6119

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

61-Pm-137



70

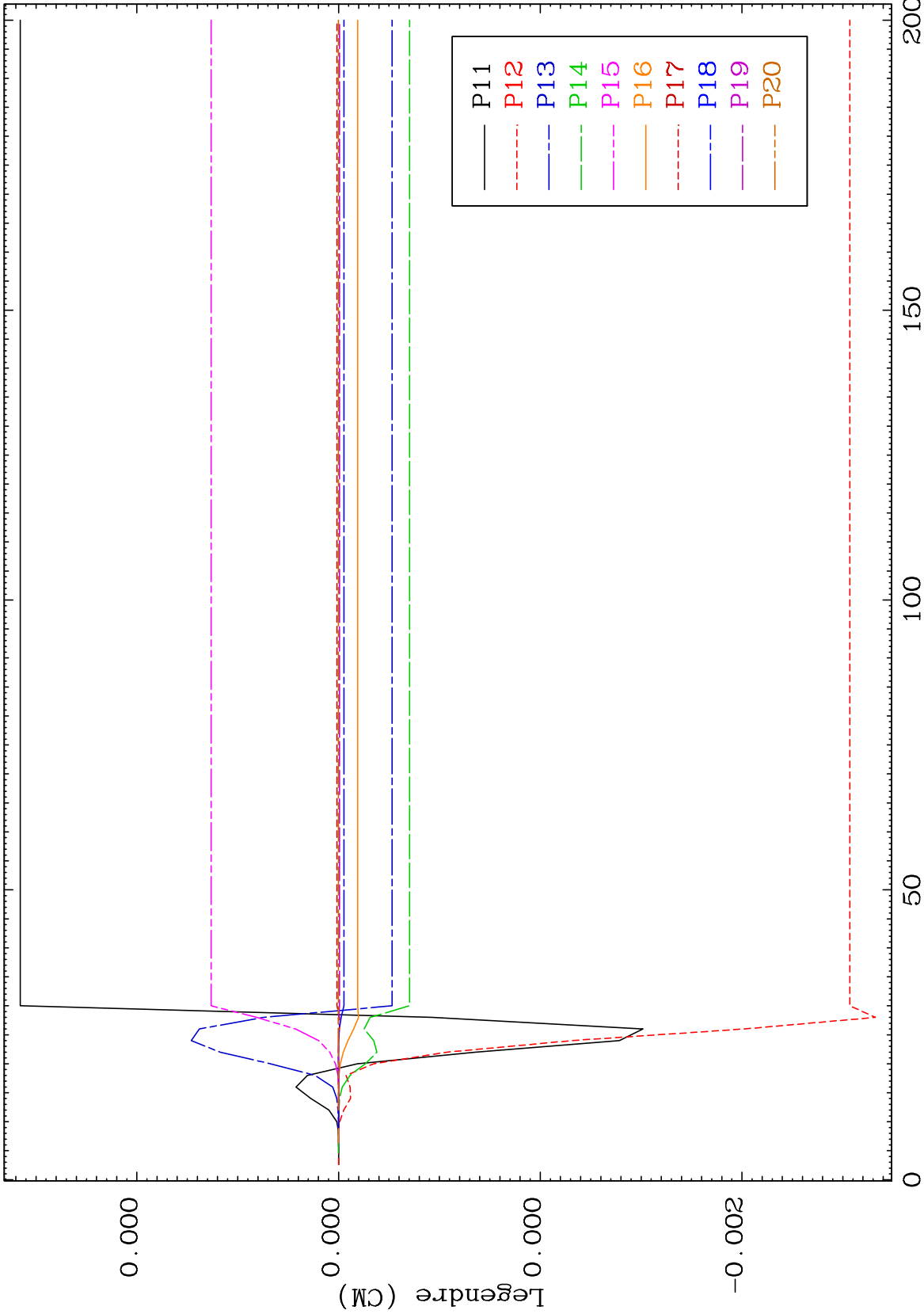
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



71

Incident Energy (MeV)

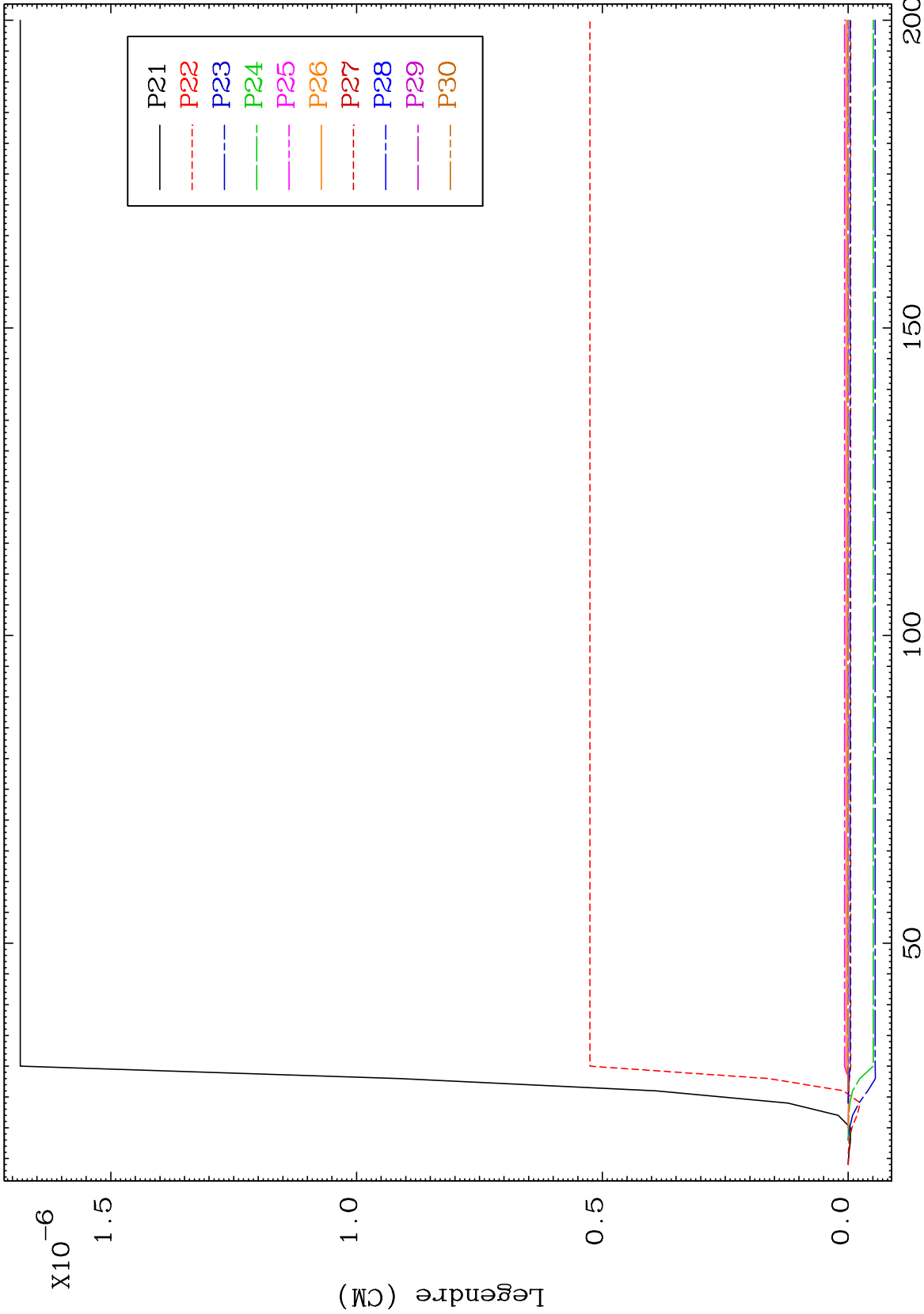
61-Pm-137



MAT 6119

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

61-Pm-137

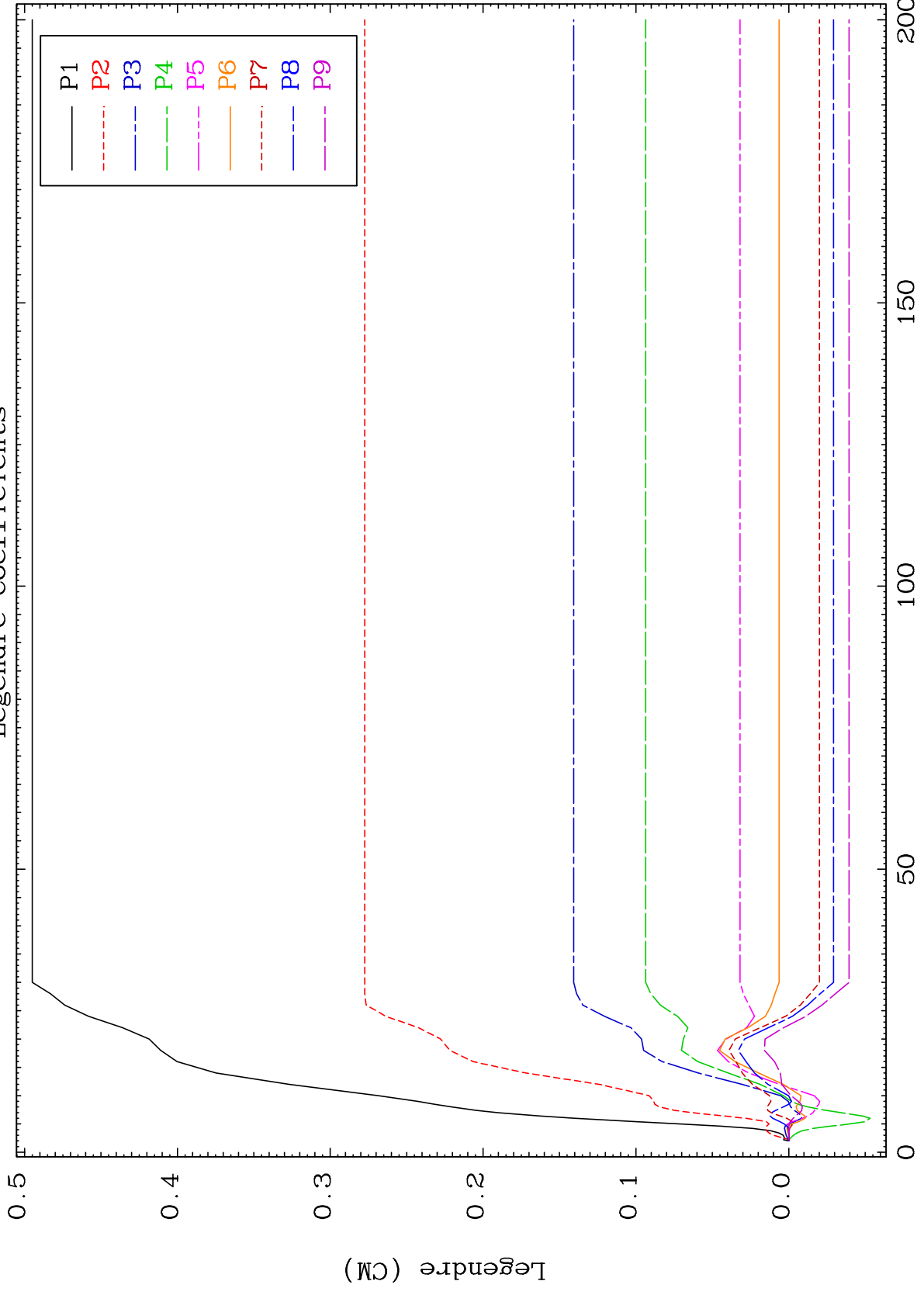


72

Incident Energy (MeV)

61-Pm-137

MAT 6119 MT= 65 (n,n') Level Legendre Coefficients 61-Pm-137

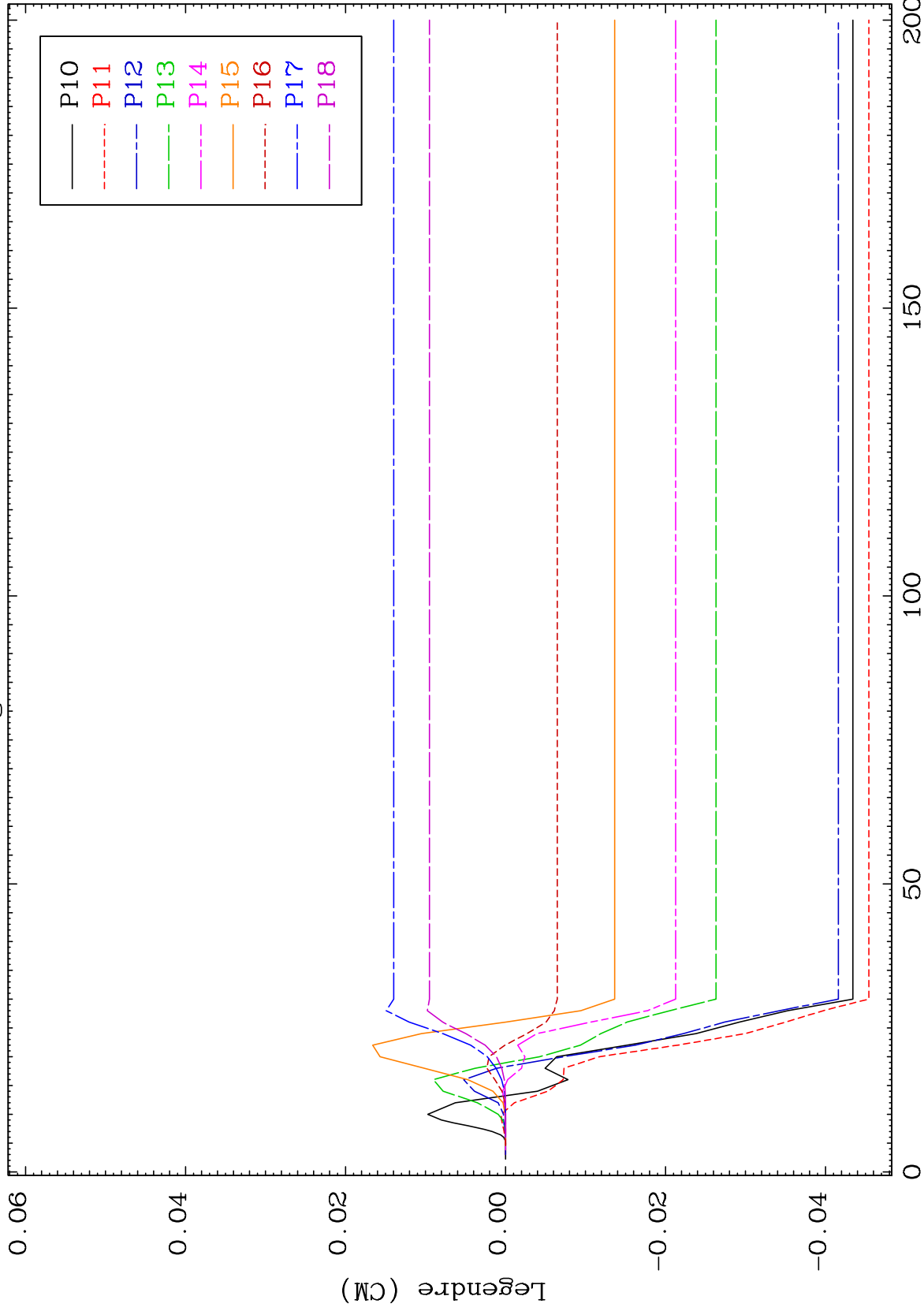


73 61-Pm-137

MAT 6119

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

61-Pm-137



74

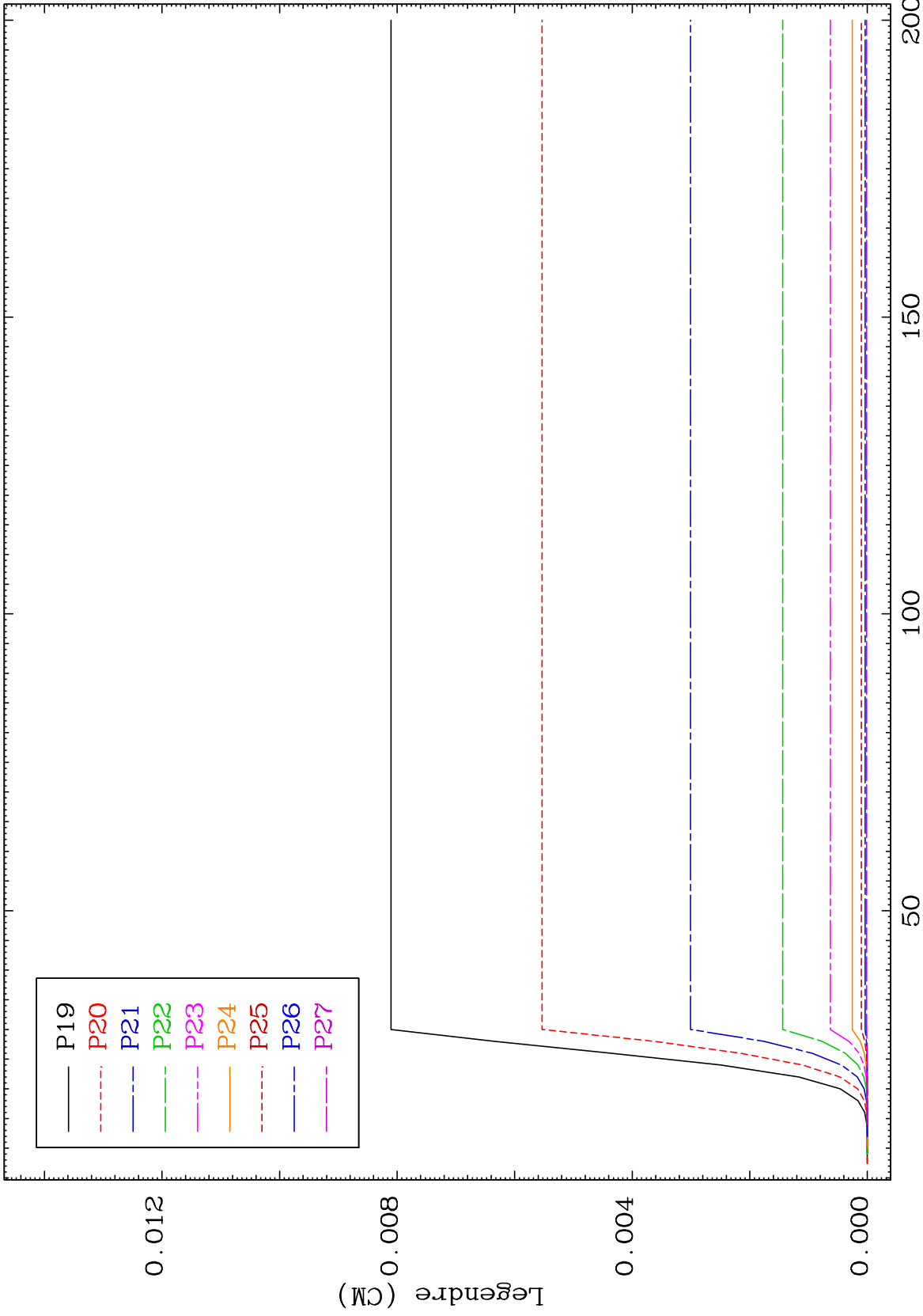
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



75

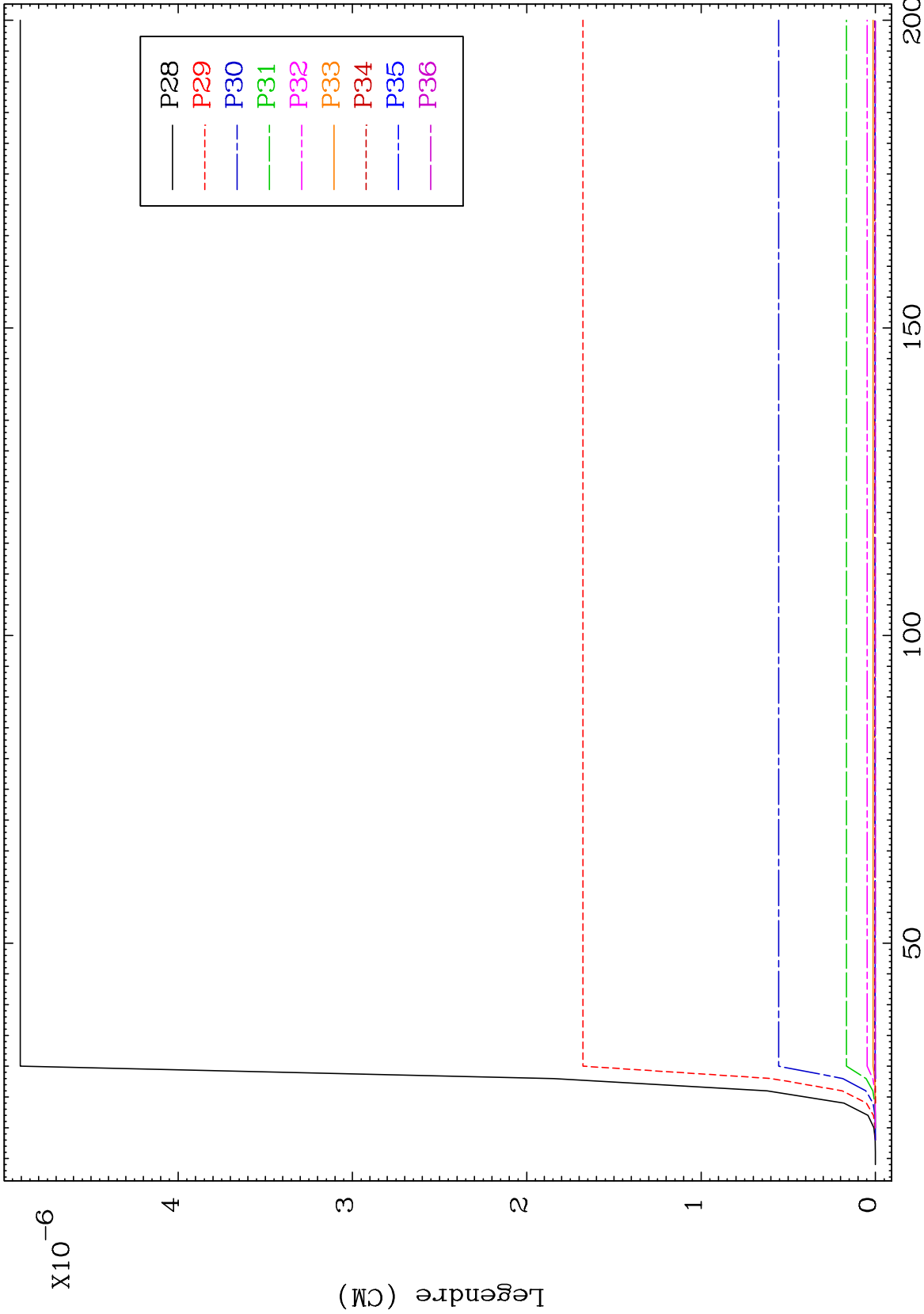
Incident Energy (MeV)

61-Pm-137

MAT 6119

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

61-Pm-137



76

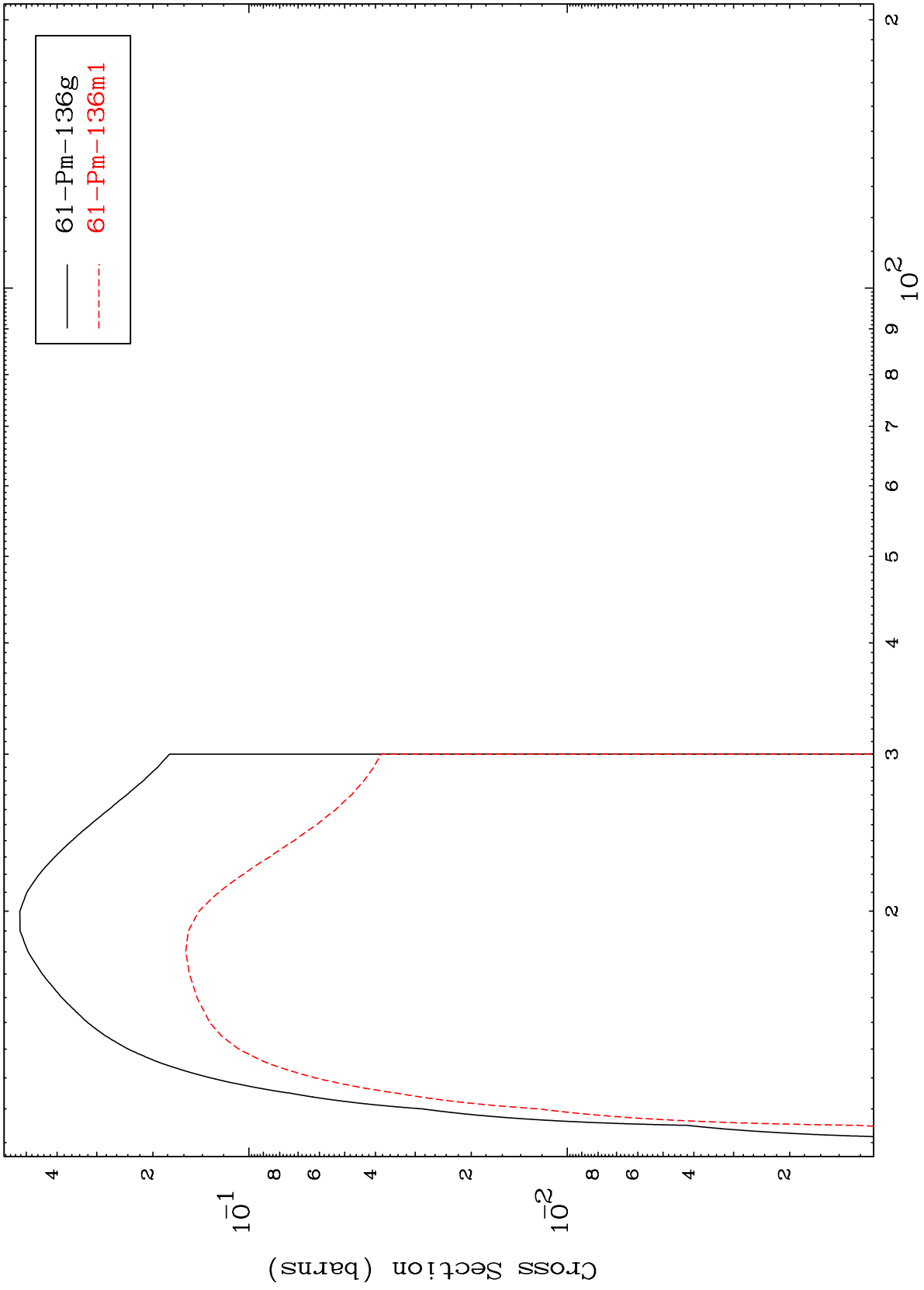
Incident Energy (MeV)

61-Pm-137

MAT 6119

61-Pm-137

(n,2n)  
Radionuclide Production Cross Section



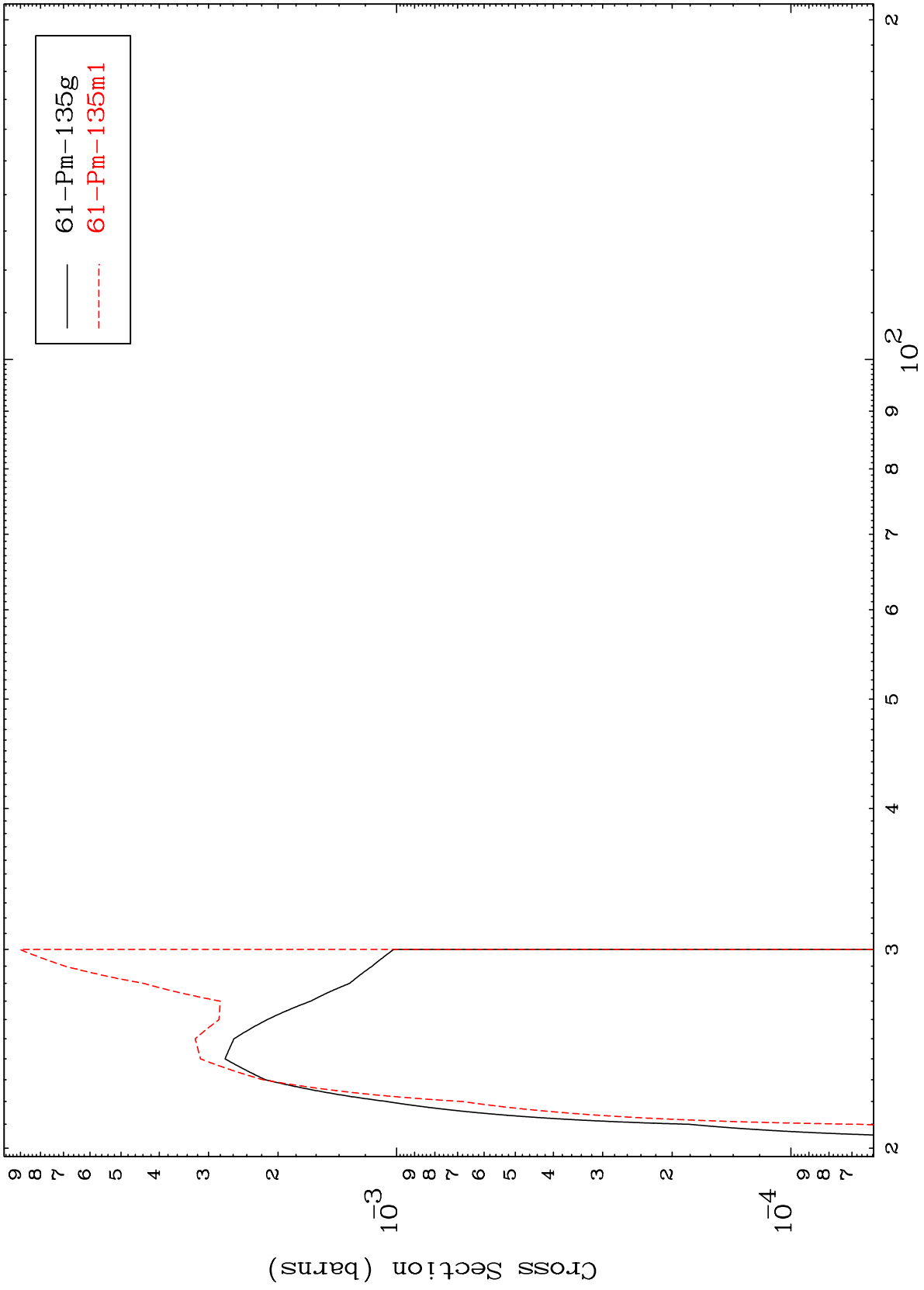
77

61-Pm-137

MAT 6119

61-Pm-137

(n,3n)  
Radionuclide Production Cross Section



78

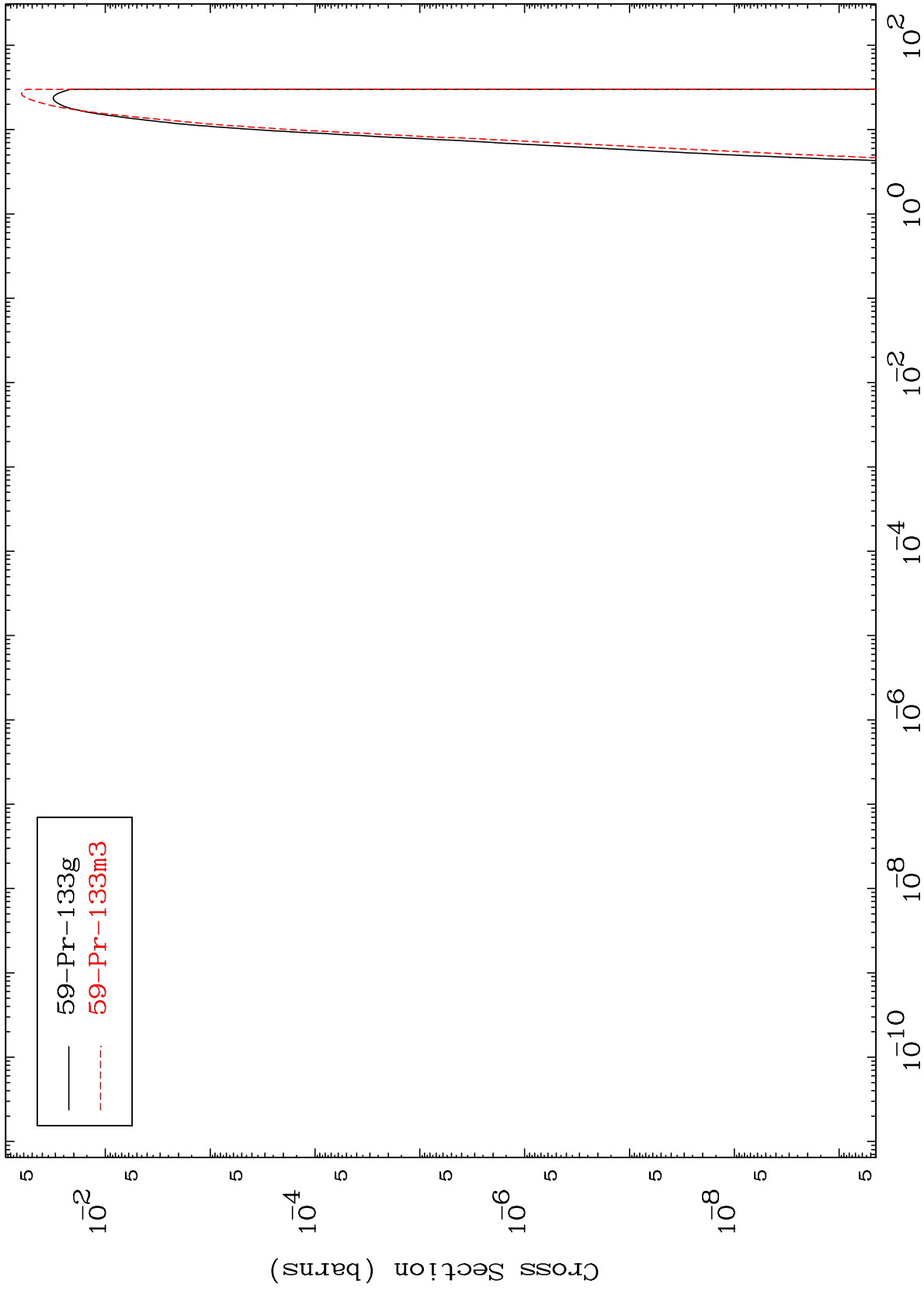
61-Pm-137

MAT 6119

(n,n')  $\alpha$

61-Pm-137

Radionuclide Production Cross Section



79

Incident Energy (MeV)

61-Pm-137

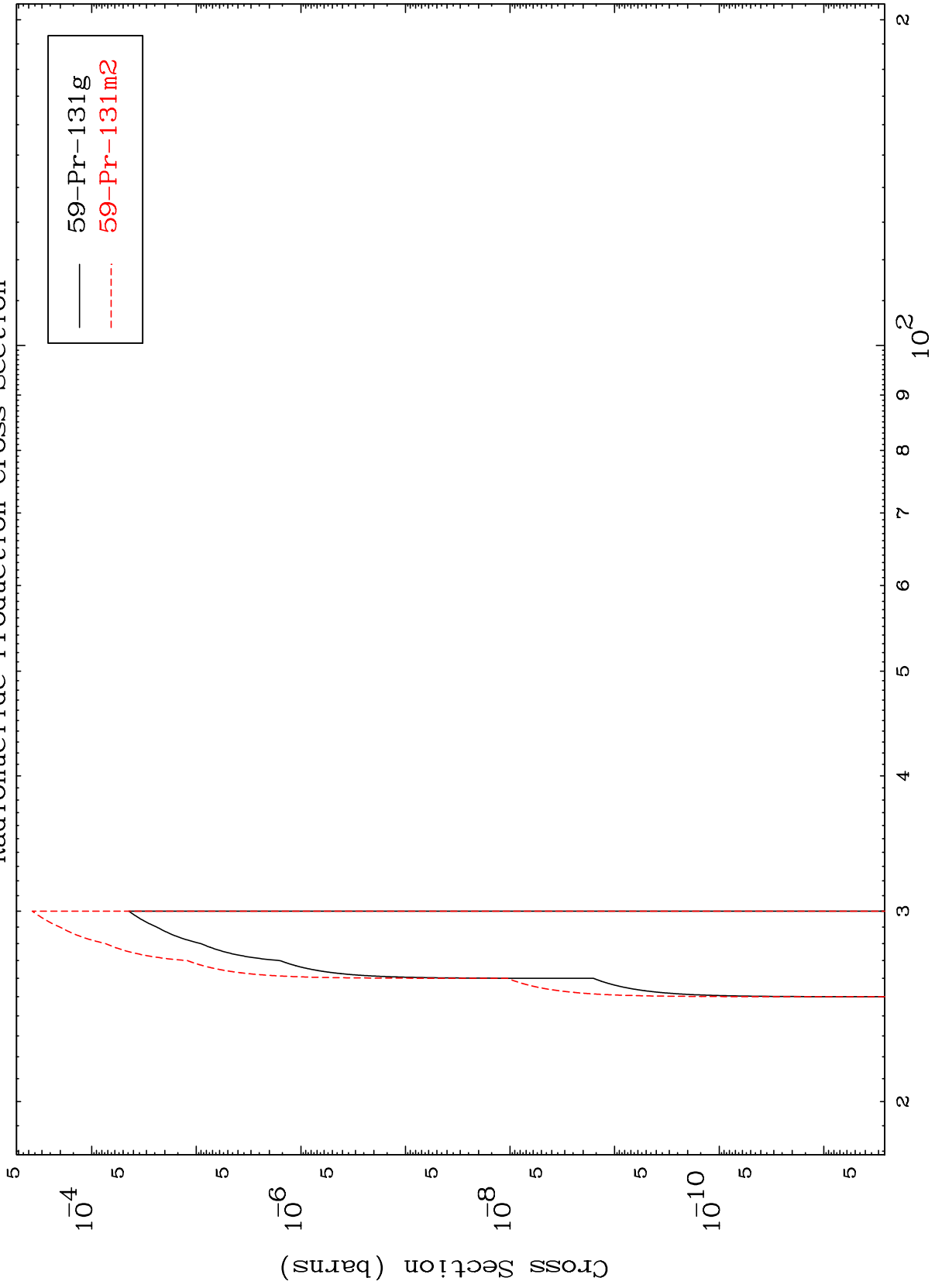


MAT 6119

(n,3n)  $\alpha$

61-Pm-137

Radionuclide Production Cross Section



80

Incident Energy (MeV)

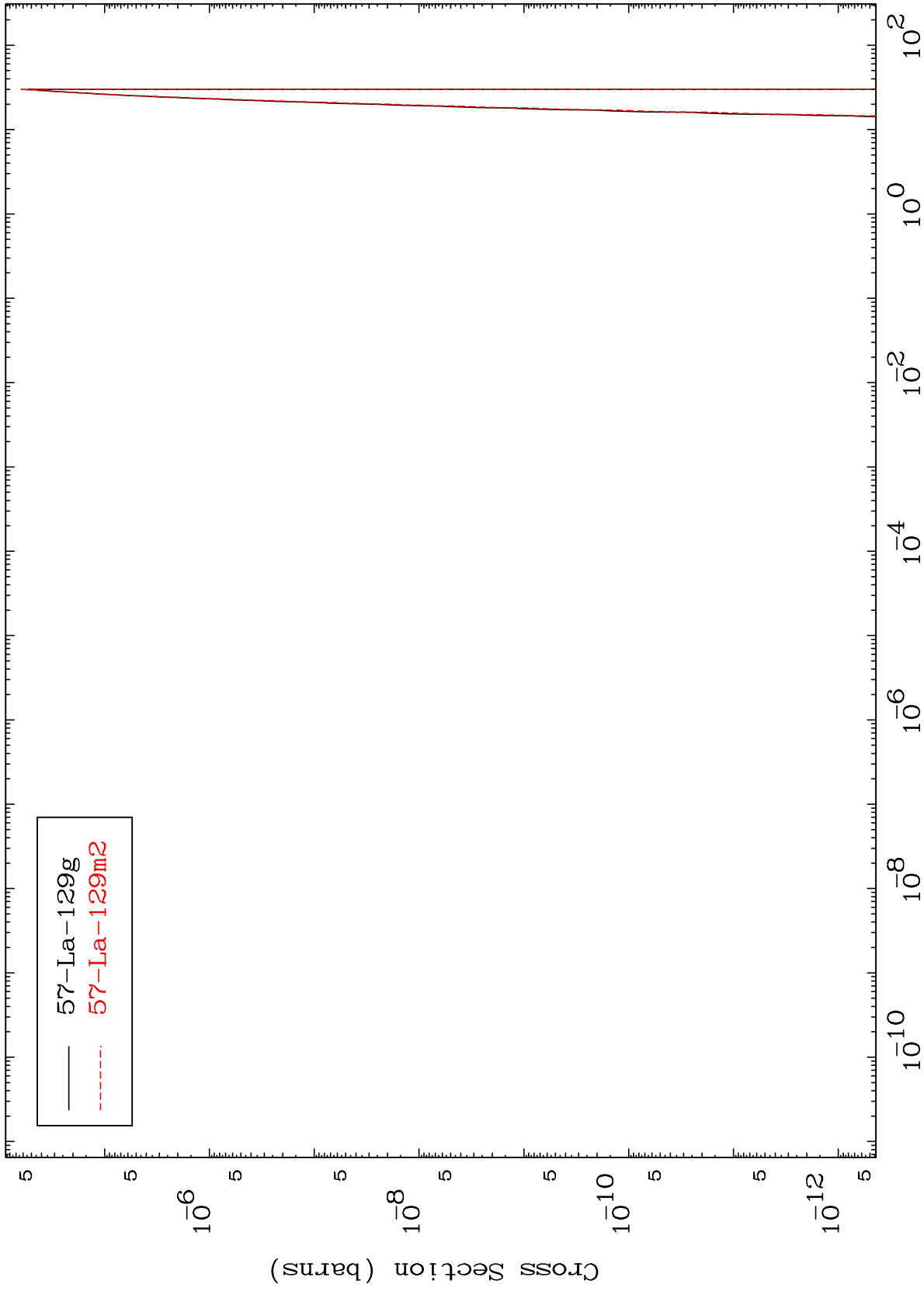
61-Pm-137

MAT 6119

(n,n') 2 $\alpha$

61-Pm-137

Radionuclide Production Cross Section



81

Incident Energy (MeV)

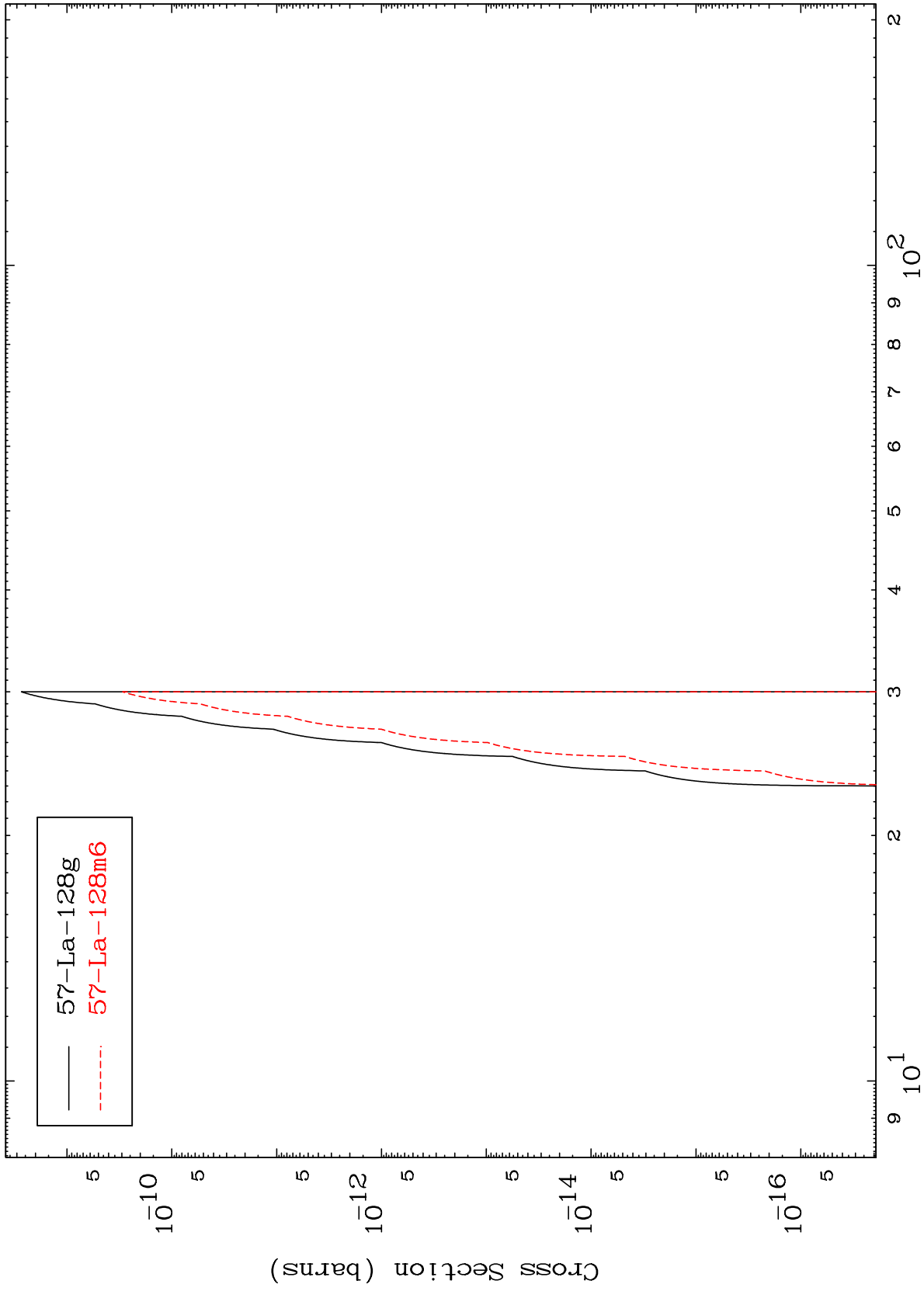
61-Pm-137

MAT 6119

(n,2n) 2α

61-Pm-137

Radionuclide Production Cross Section



82

Incident Energy (MeV)

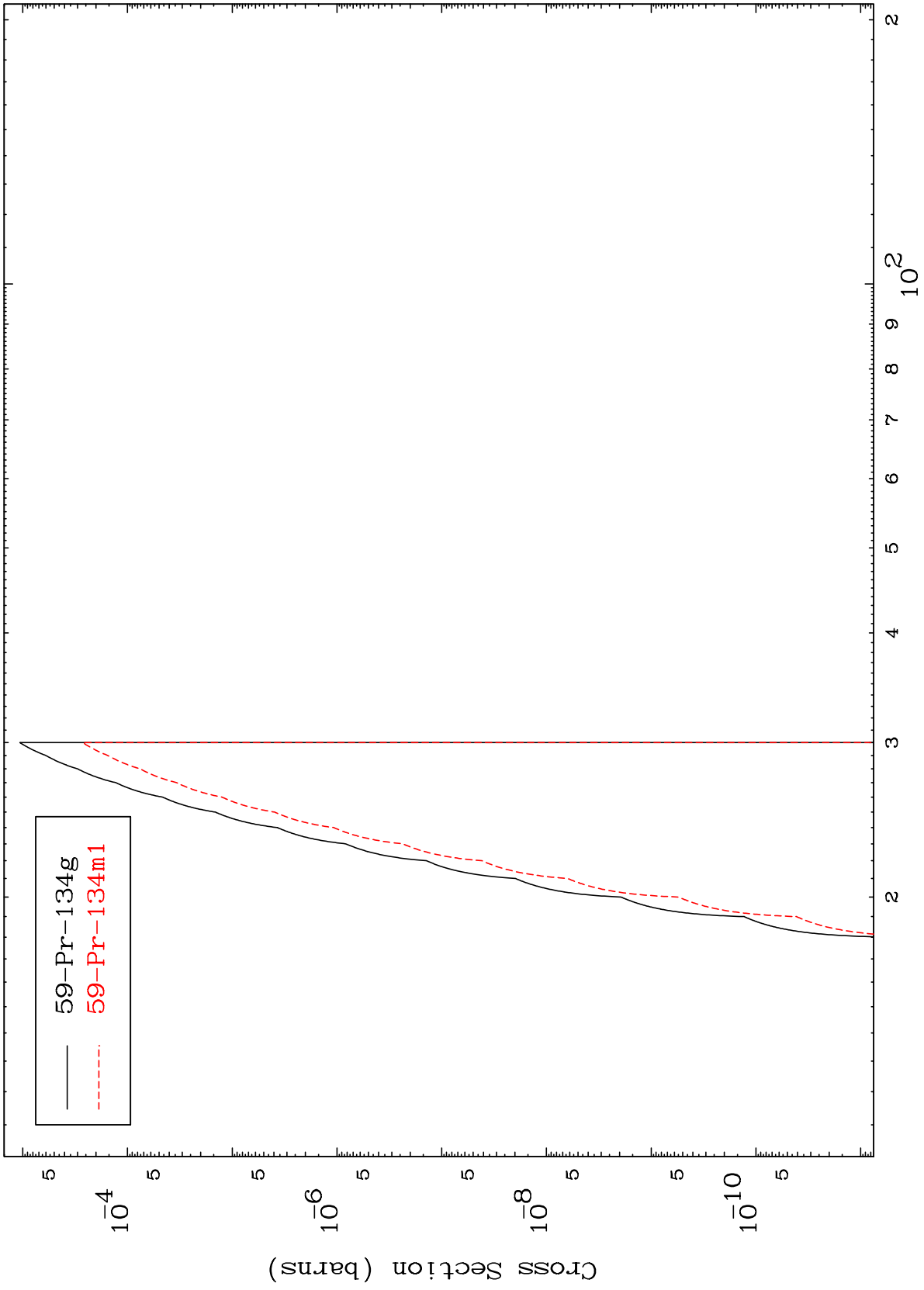
61-Pm-137

MAT 6119

(n, n') He-3

61-Pm-137

Radionuclide Production Cross Section



83

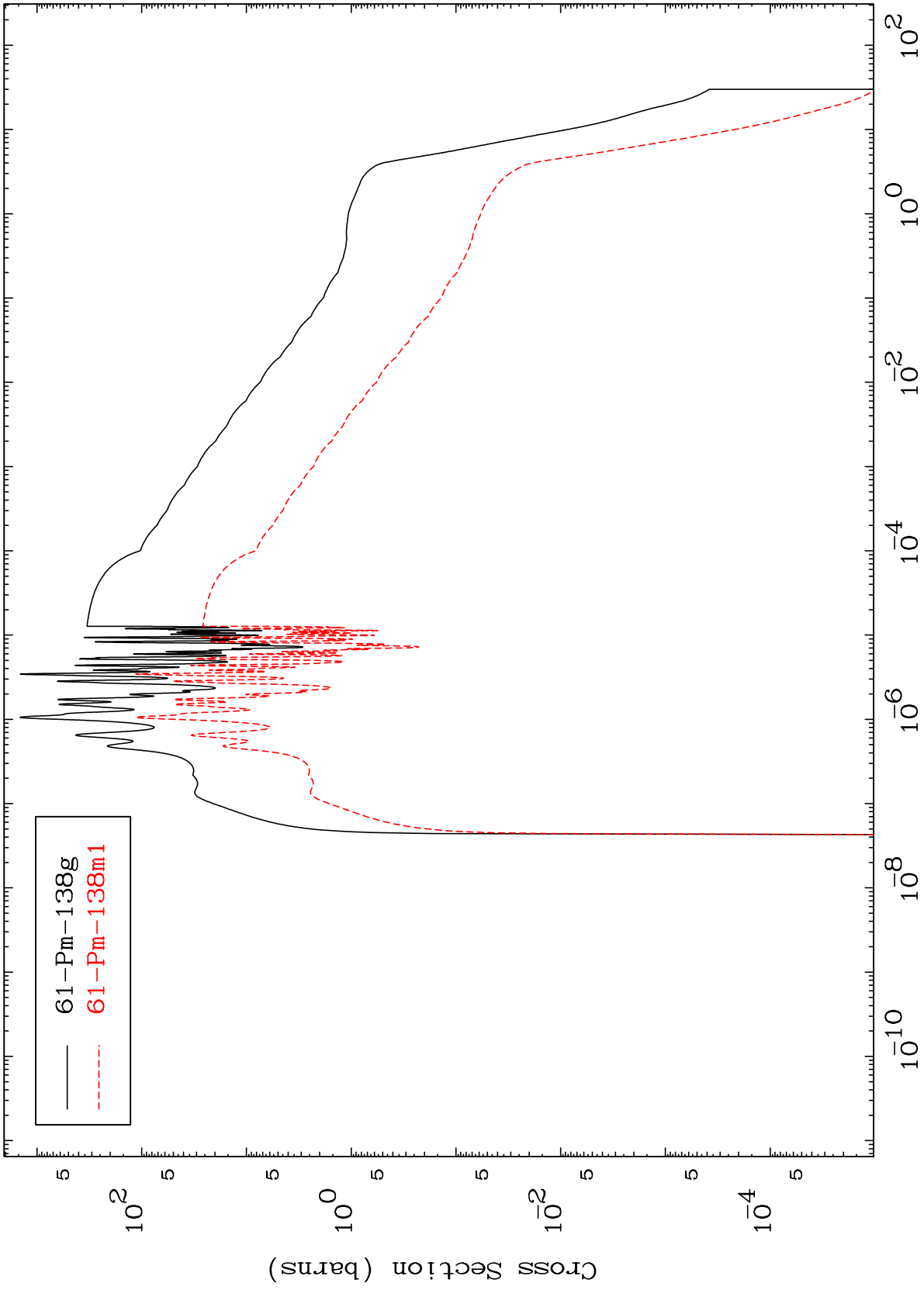
Incident Energy (MeV)

61-Pm-137

MAT 6119

61-Pm-137

Radionuclide Production Cross Section (n,γ)



84

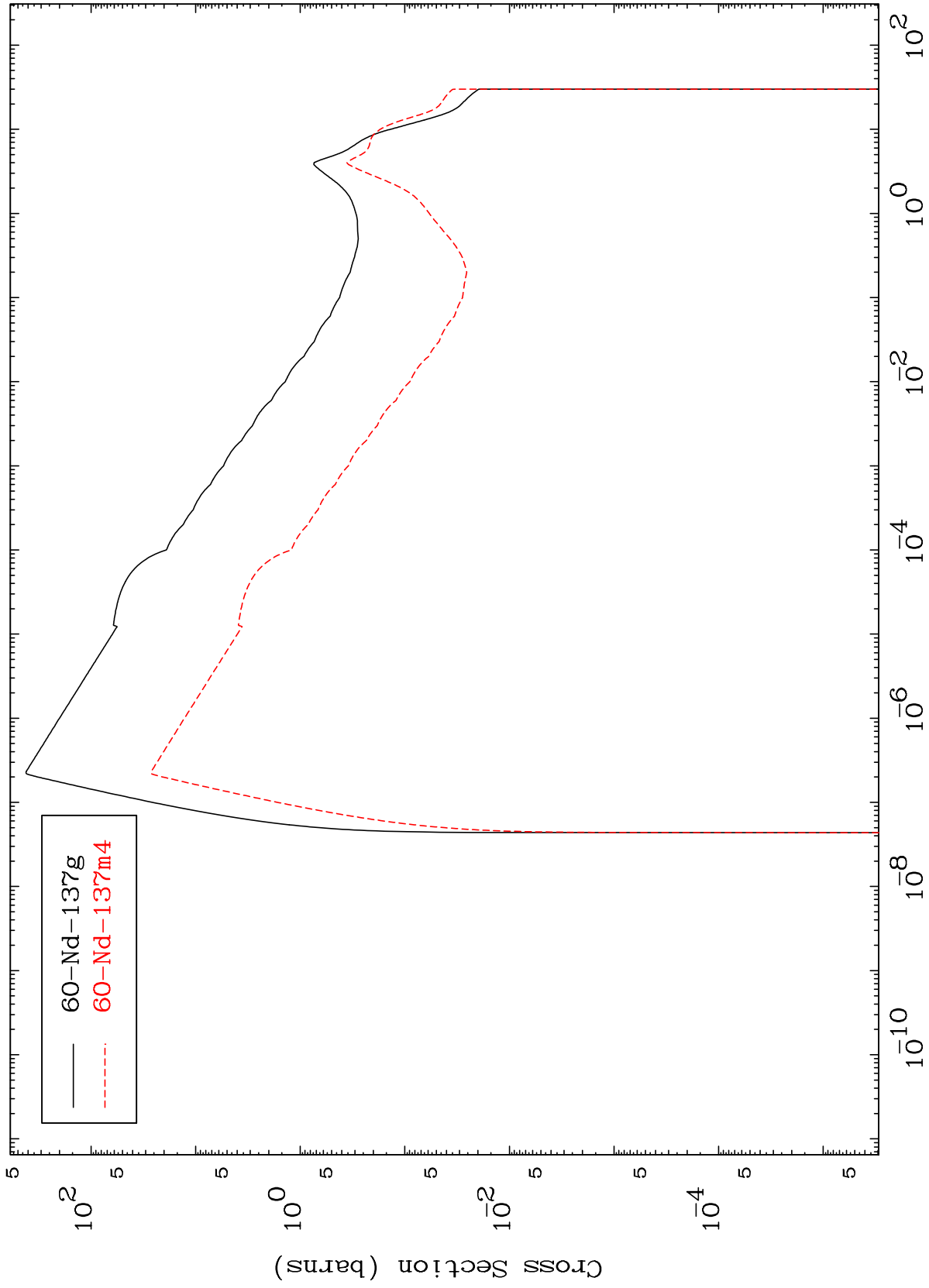
61-Pm-137

MAT 6119

(n,p)

61-Pm-137

Radionuclide Production Cross Section



85

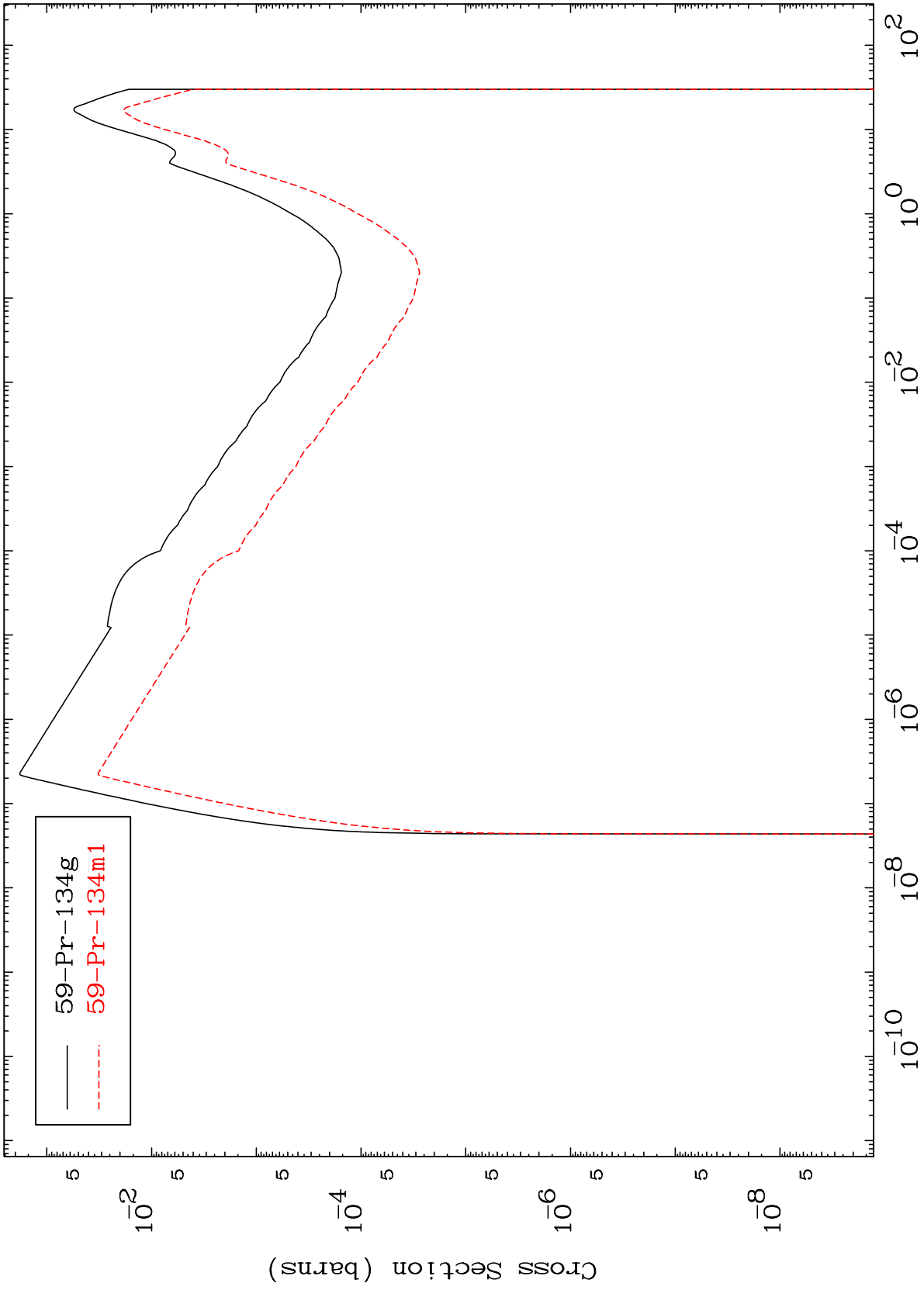
61-Pm-137

MAT 6119

(n,  $\alpha$ )

61-Pm-137

Radionuclide Production Cross Section



— 59-Pr-134g  
- - - 59-Pr-134m1

86

Incident Energy (MeV)

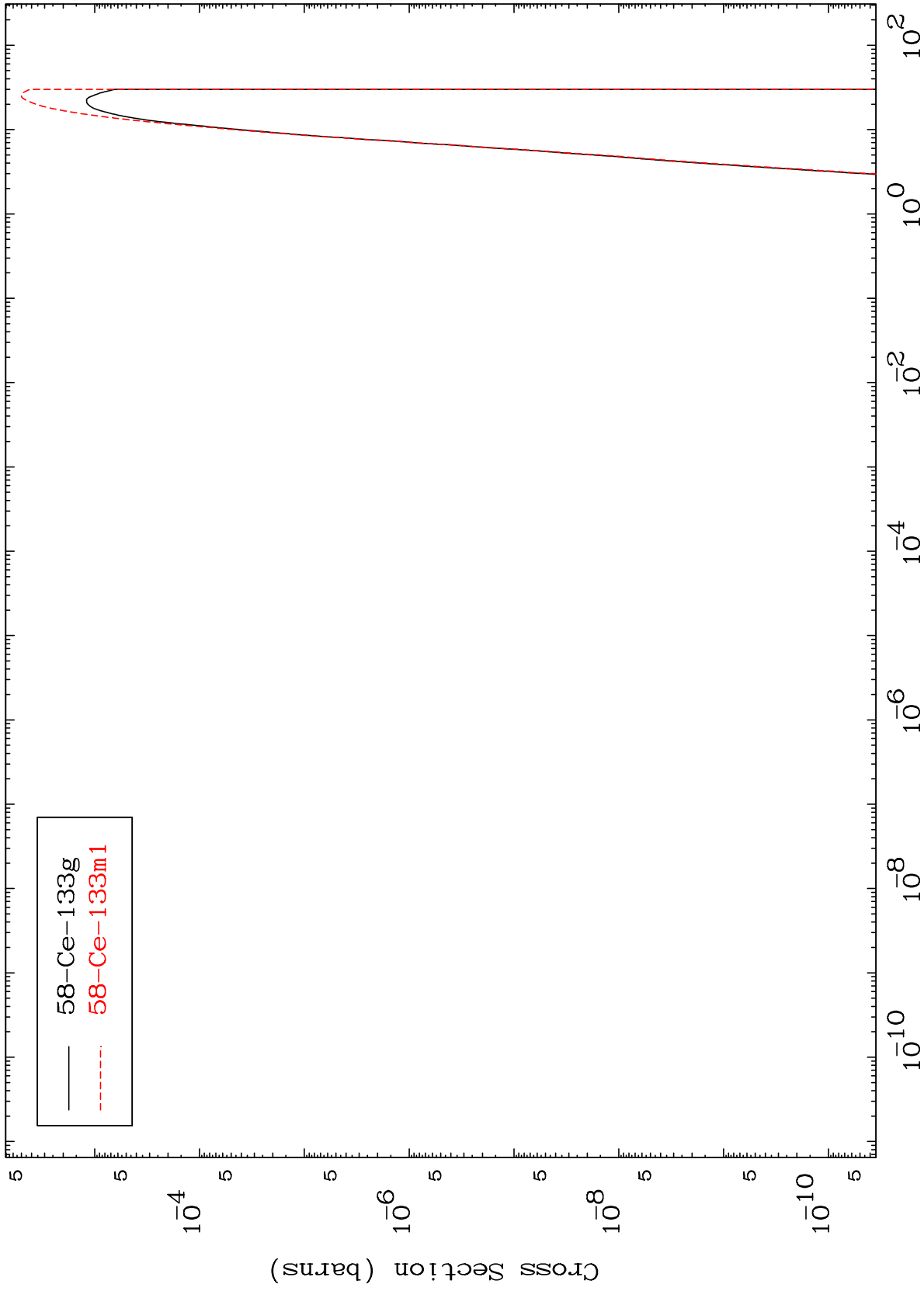
61-Pm-137

MAT 6119

(n,p)  $\alpha$

61-Pm-137

Radionuclide Production Cross Section



87

Incident Energy (MeV)

61-Pm-137

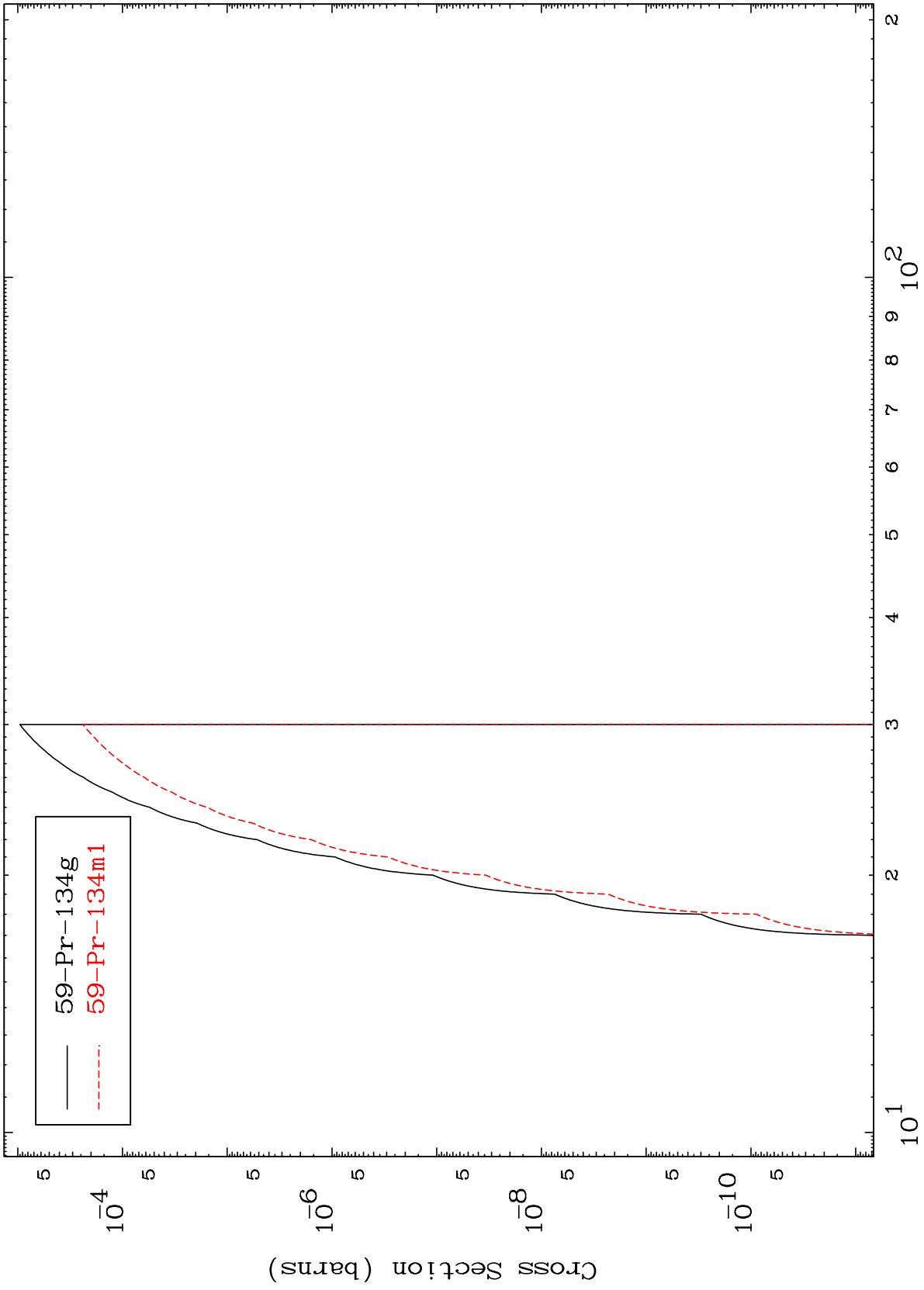


MAT 6119

(n,p) t

61-Pm-137

Radionuclide Production Cross Section



59-Pr-134g  
59-Pr-134m1

88

Incident Energy (MeV)

61-Pm-137