

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

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

Tele: 925-443-1911

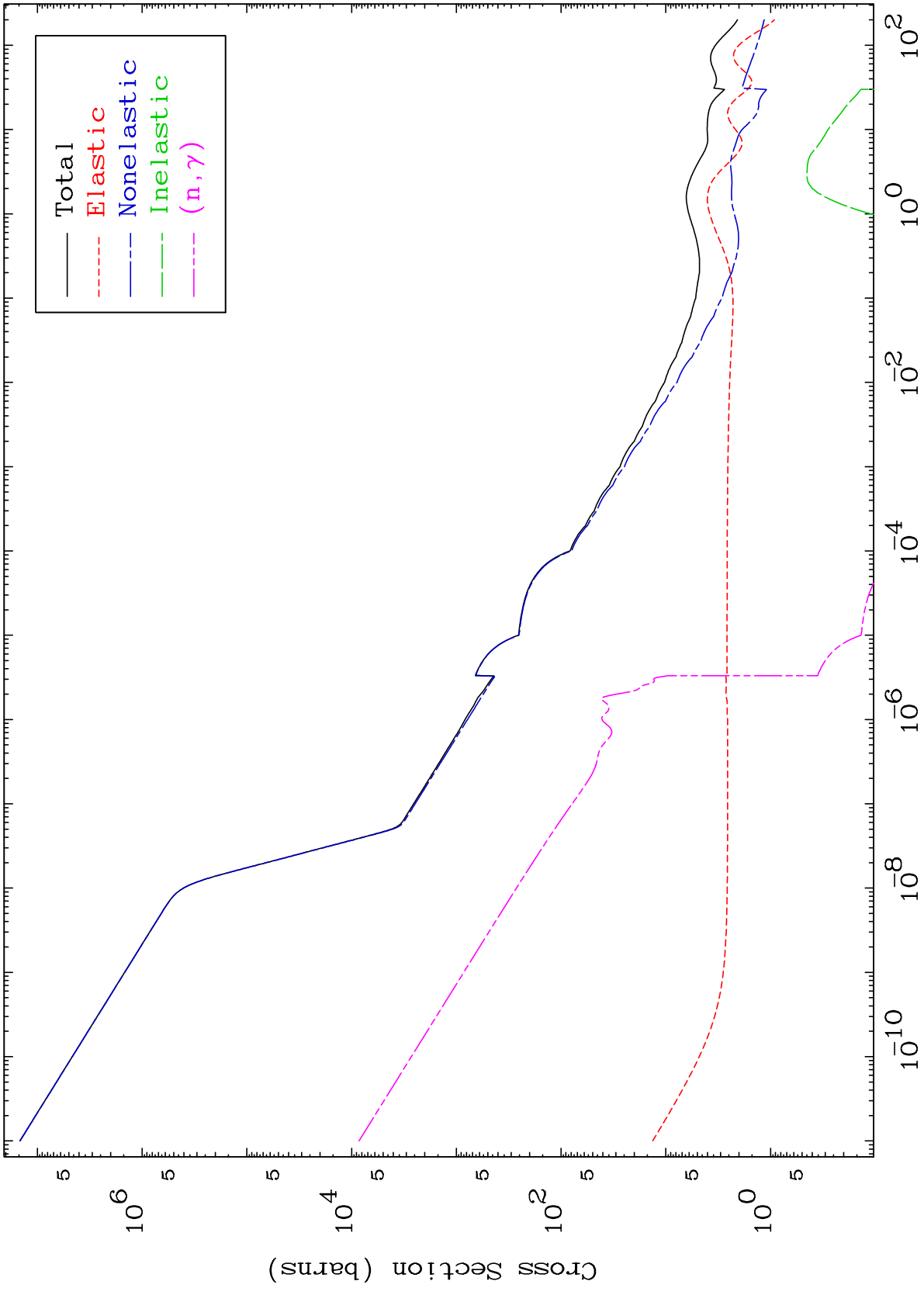
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5874

Neutron Major  
293 Kelvin Cross Sections

59-Pr-124



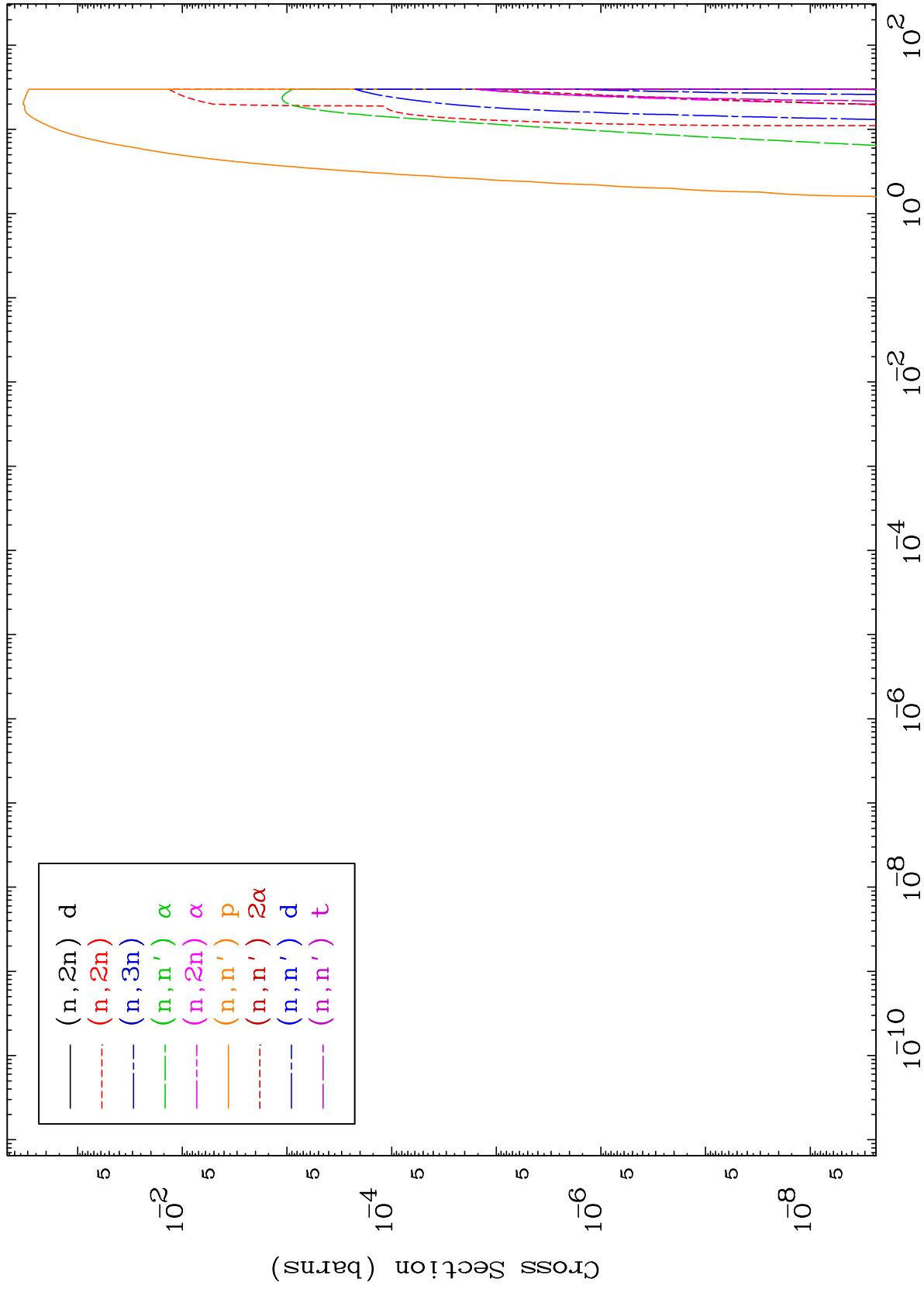
1

59-Pr-124

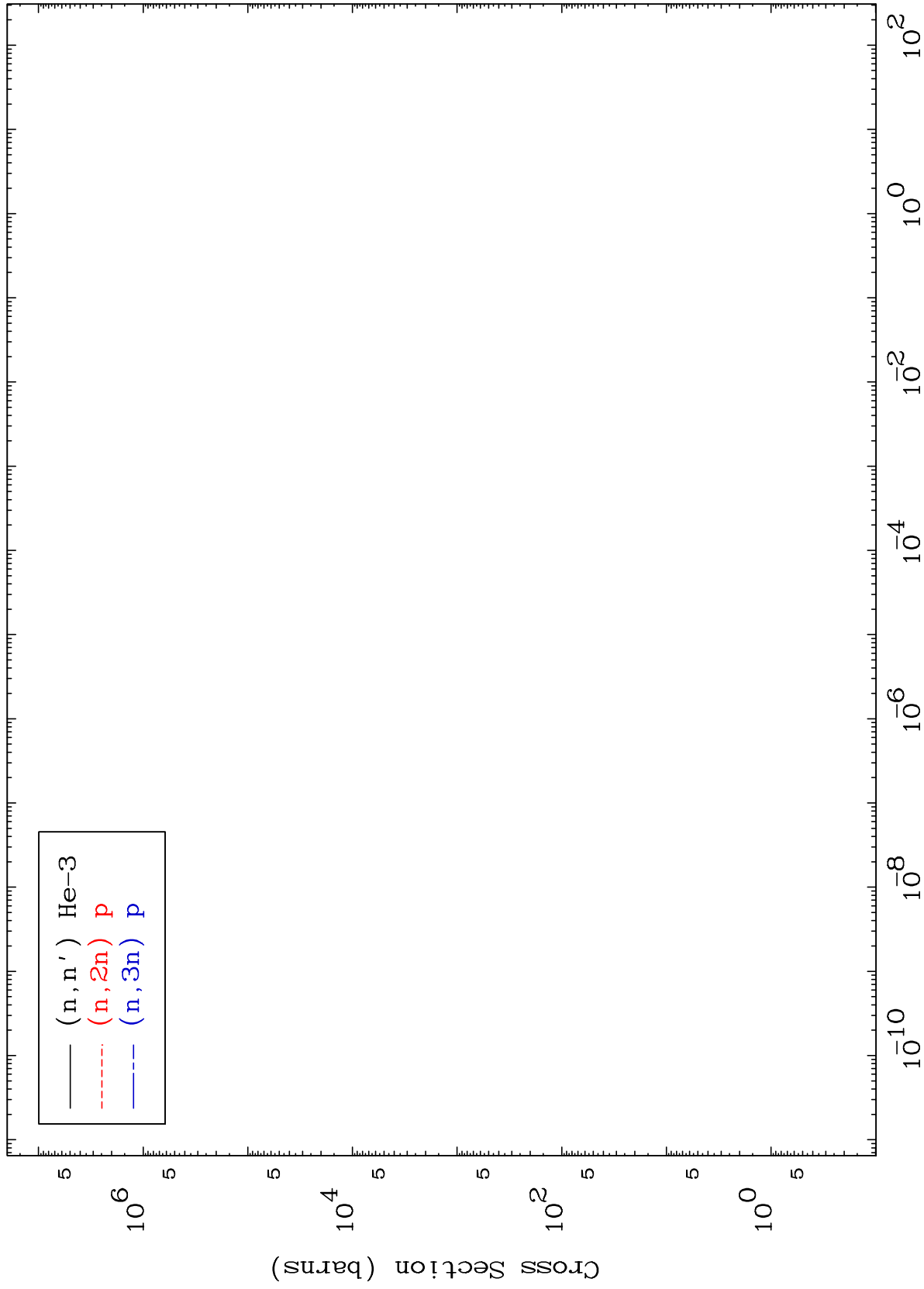
MAT 5874

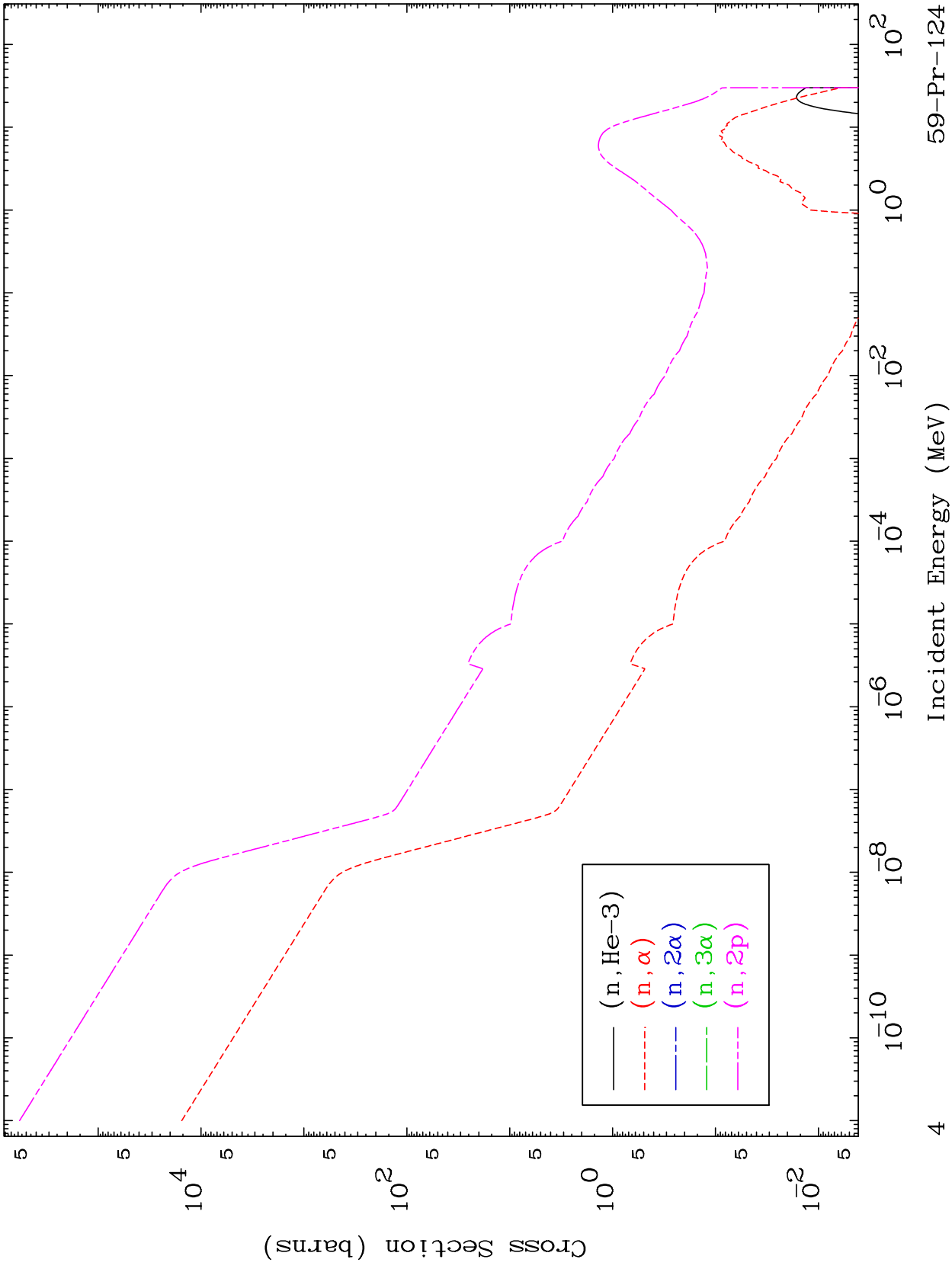
Neutron Absorption  
293 Kelvin Cross Sections

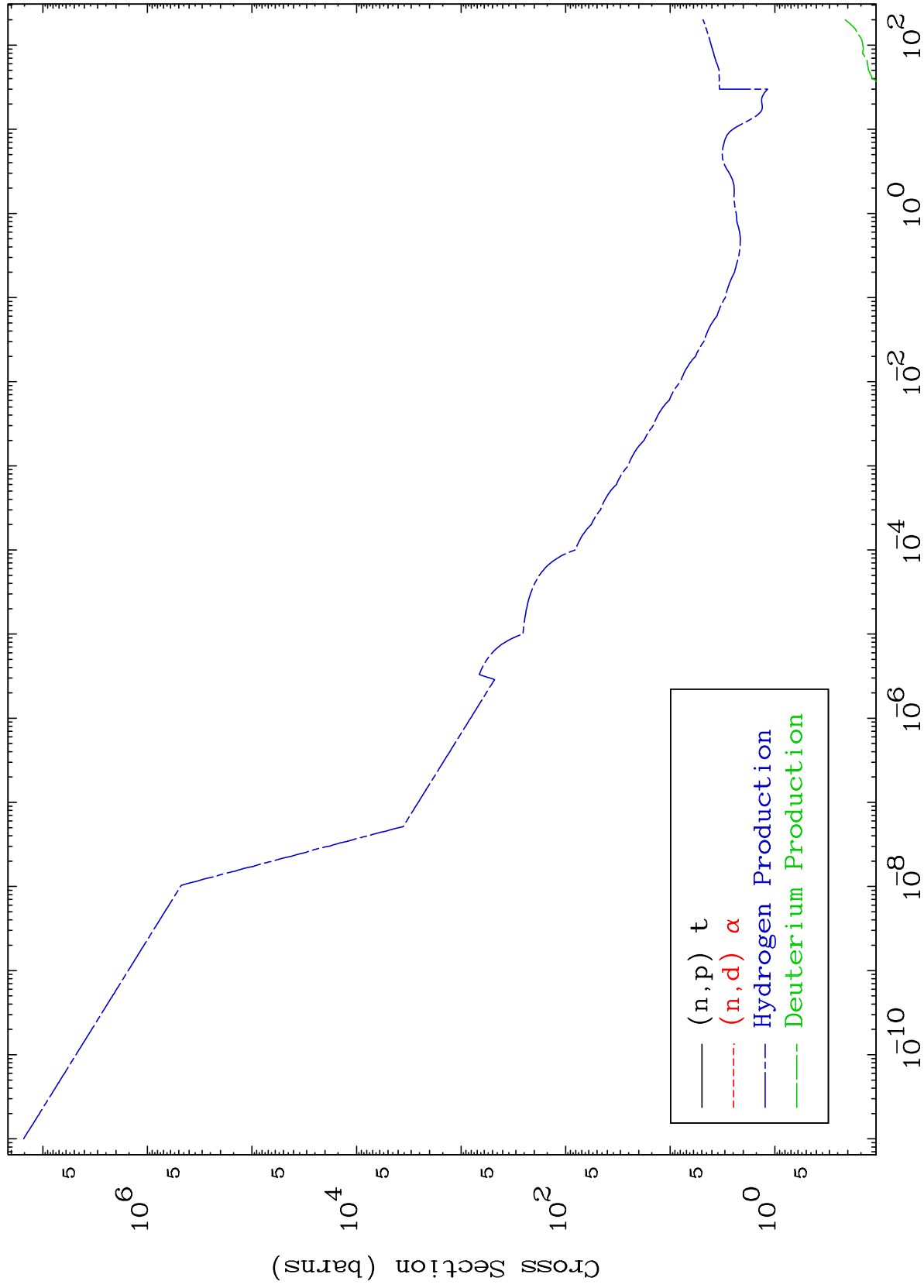
59-Pr-124



59-Pr-124



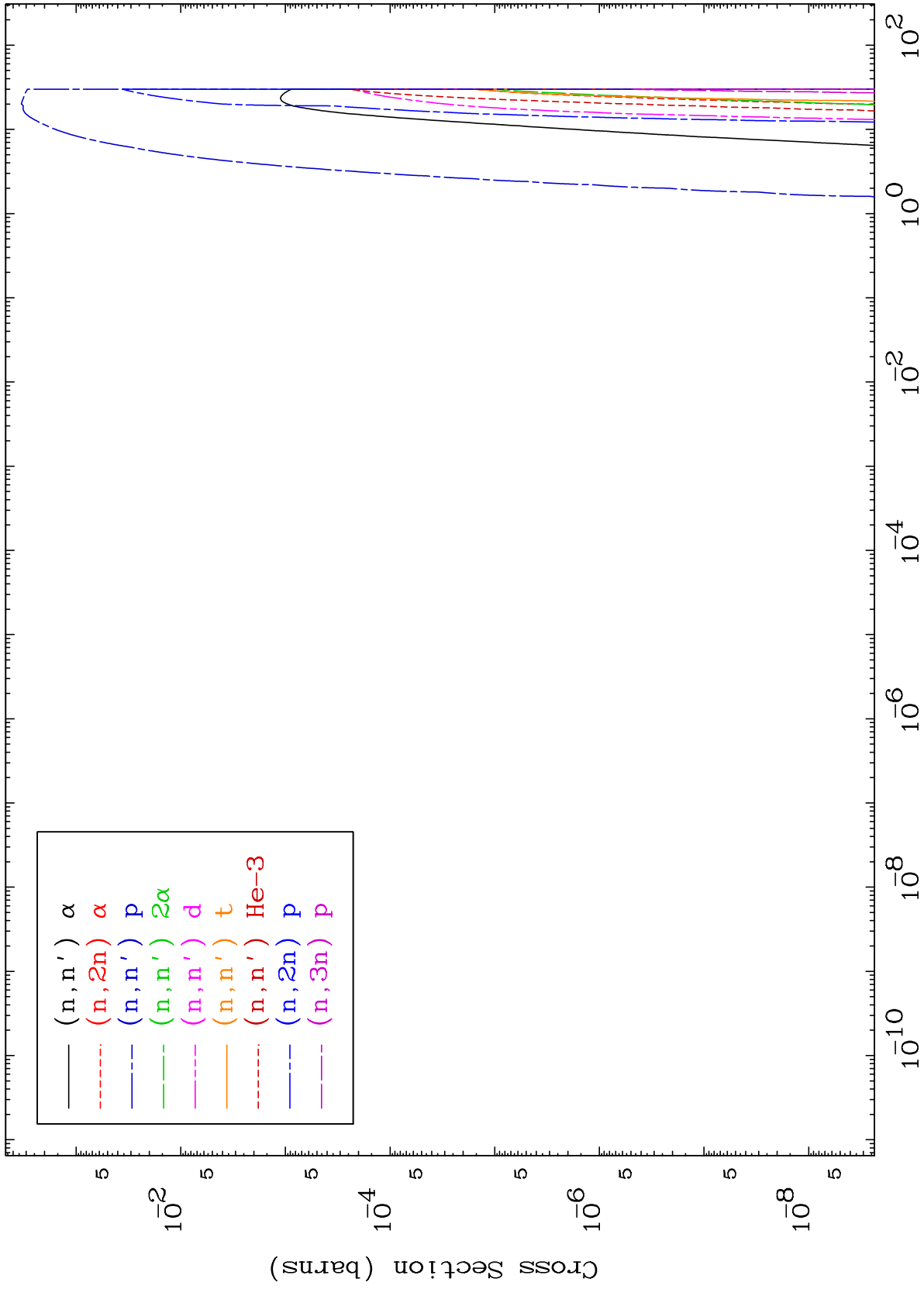




MAT 5874

Charged Particle  
293 Kelvin Cross Sections

59-Pr-124



6

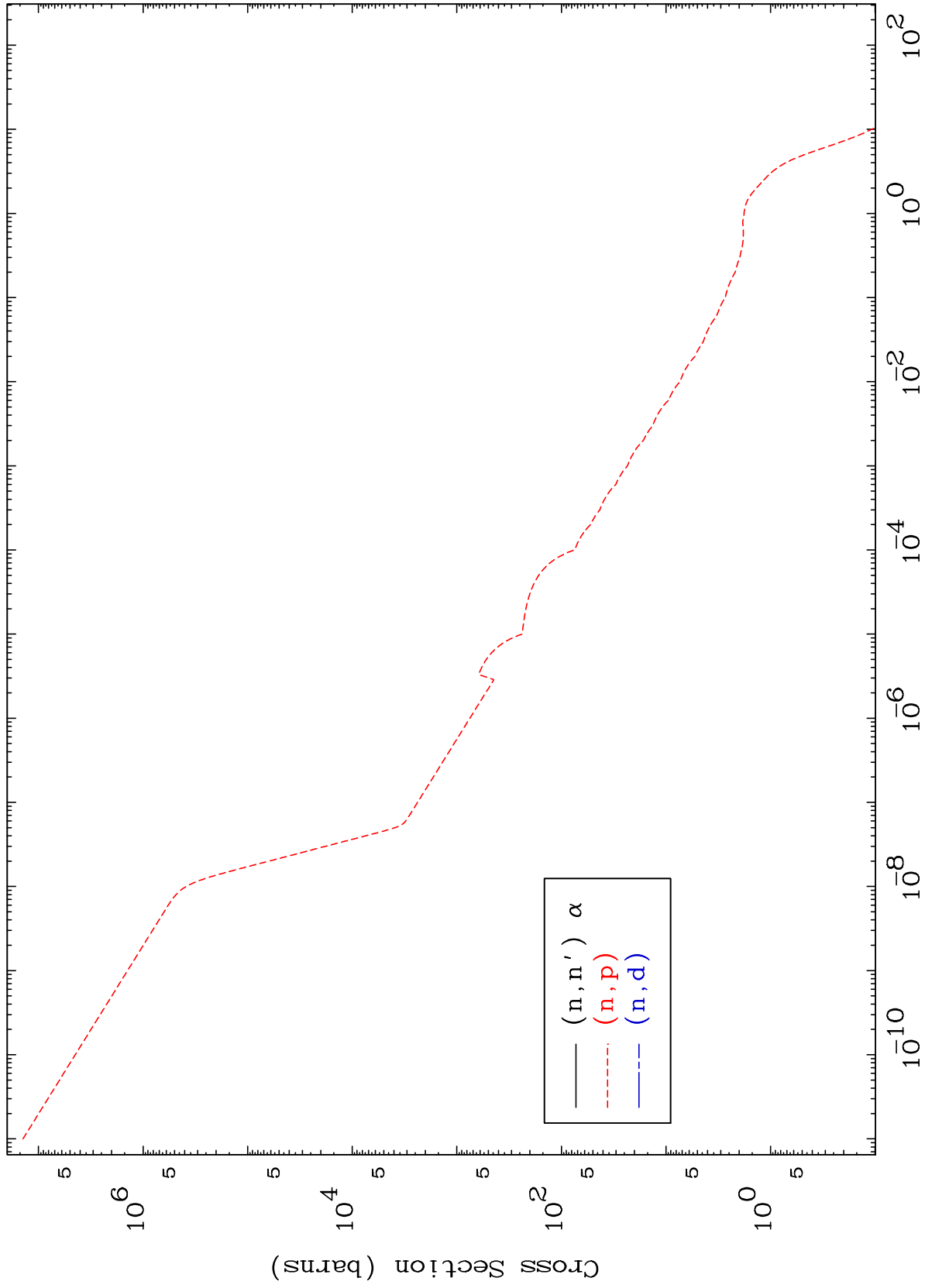
Incident Energy (MeV)

59-Pr-124

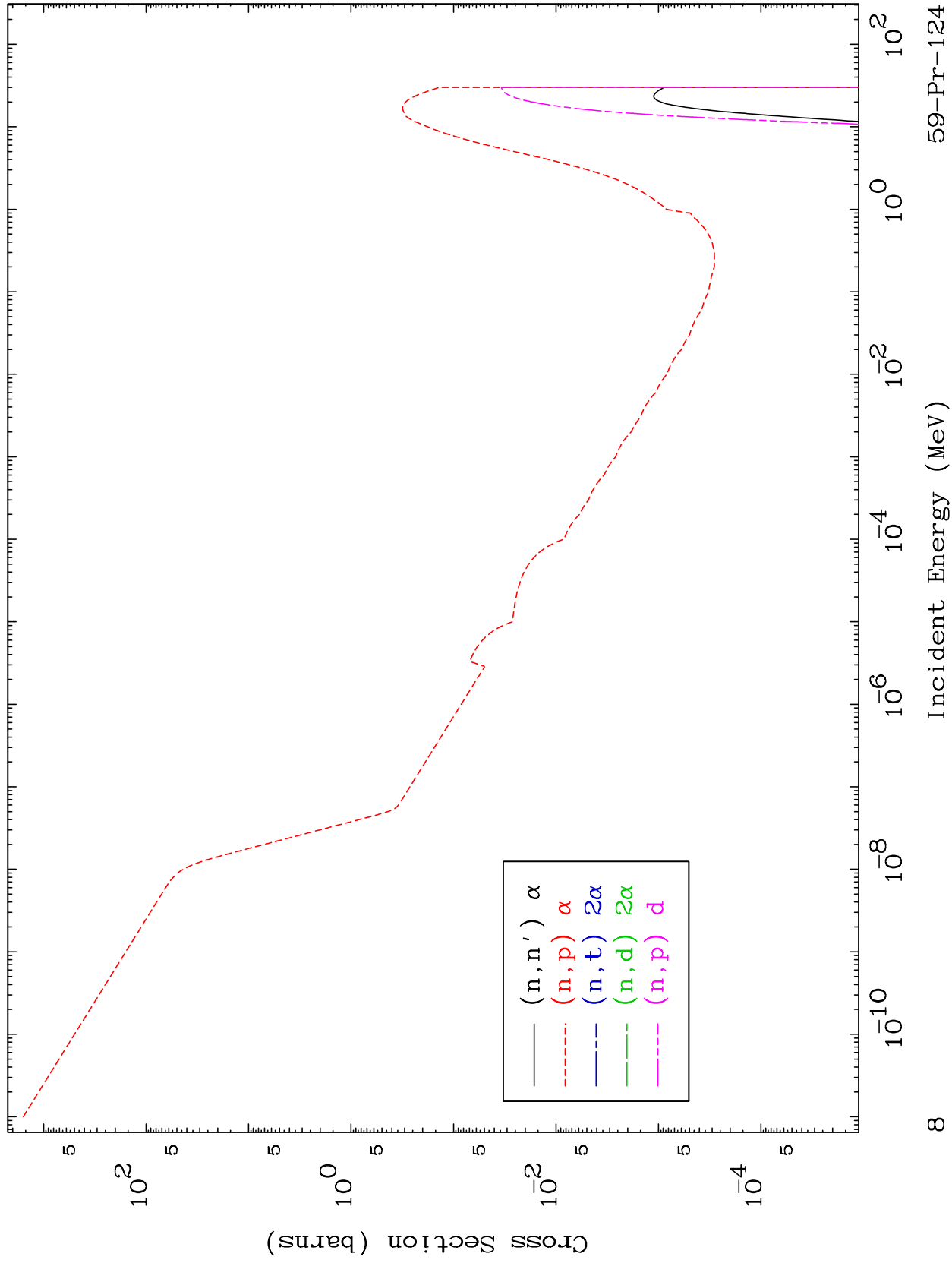
MAT 5874

Charged Particle  
293 Kelvin Cross Sections

59-Pr-124



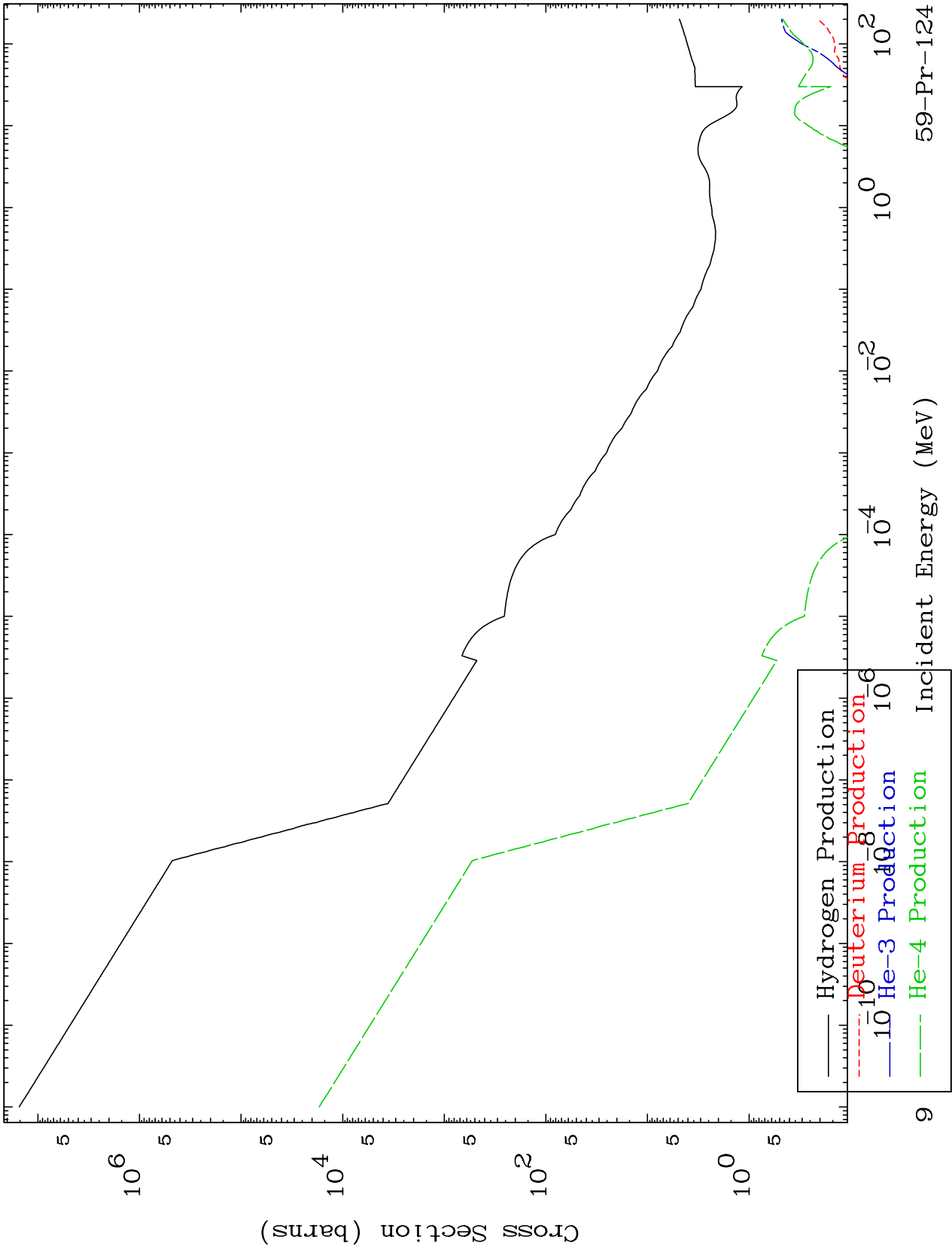




MAT 5874

Particle Production  
293 Kelvin Cross Sections

59-Pr-124



9

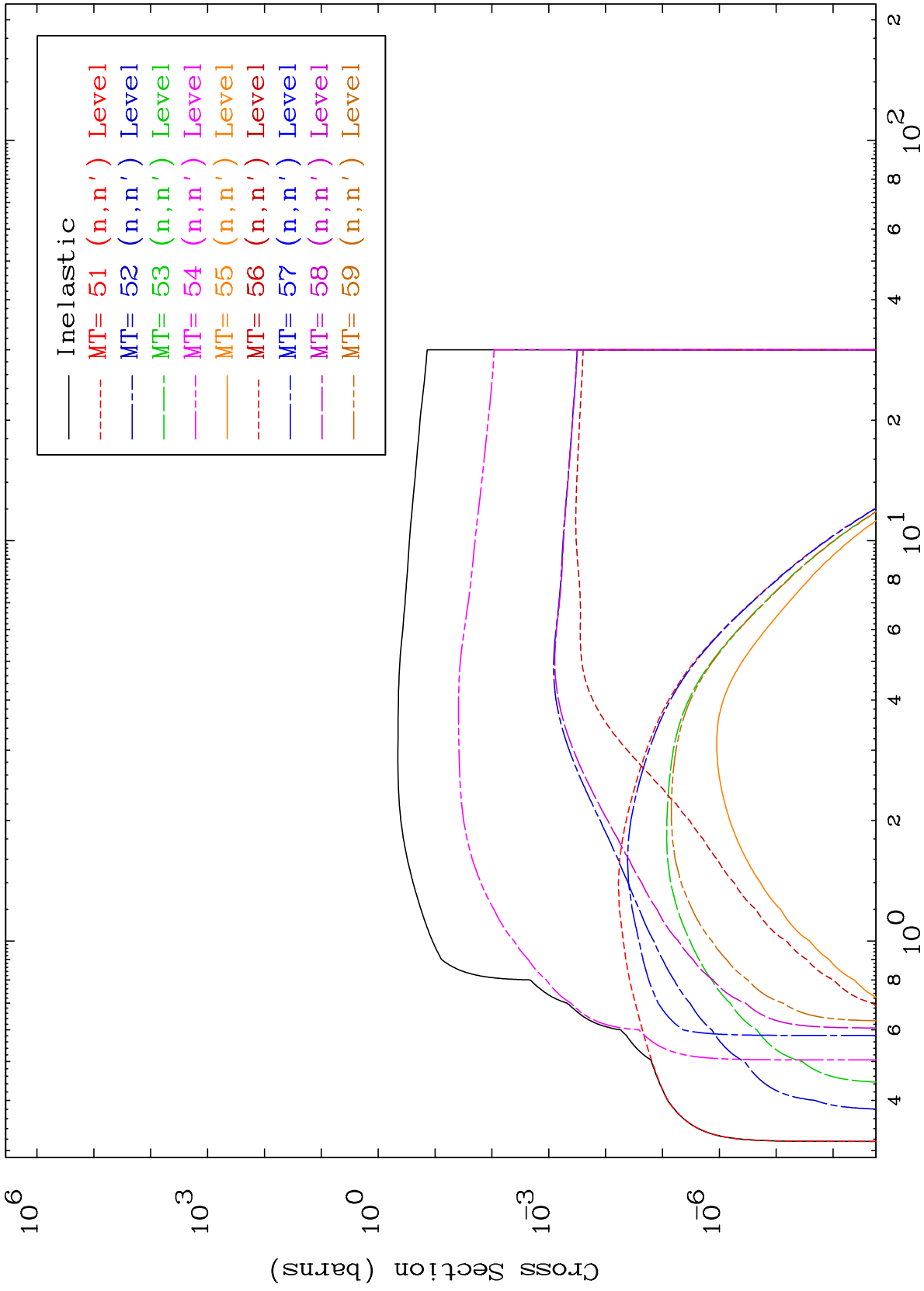
59-Pr-124

MAT 5874

(n,n') Levels

59-Pr-124

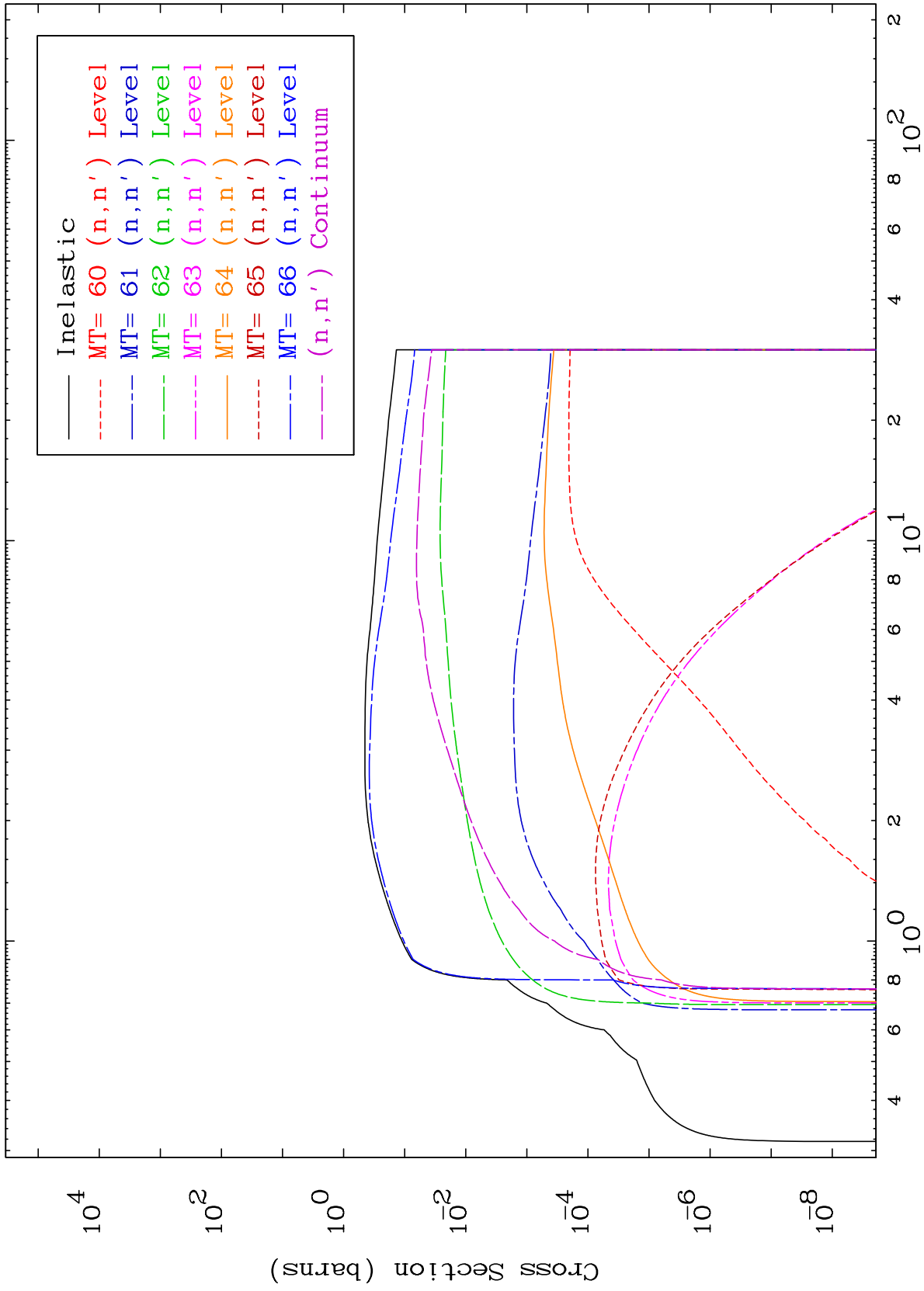
293 Kelvin Cross Sections



10

Incident Energy (MeV)

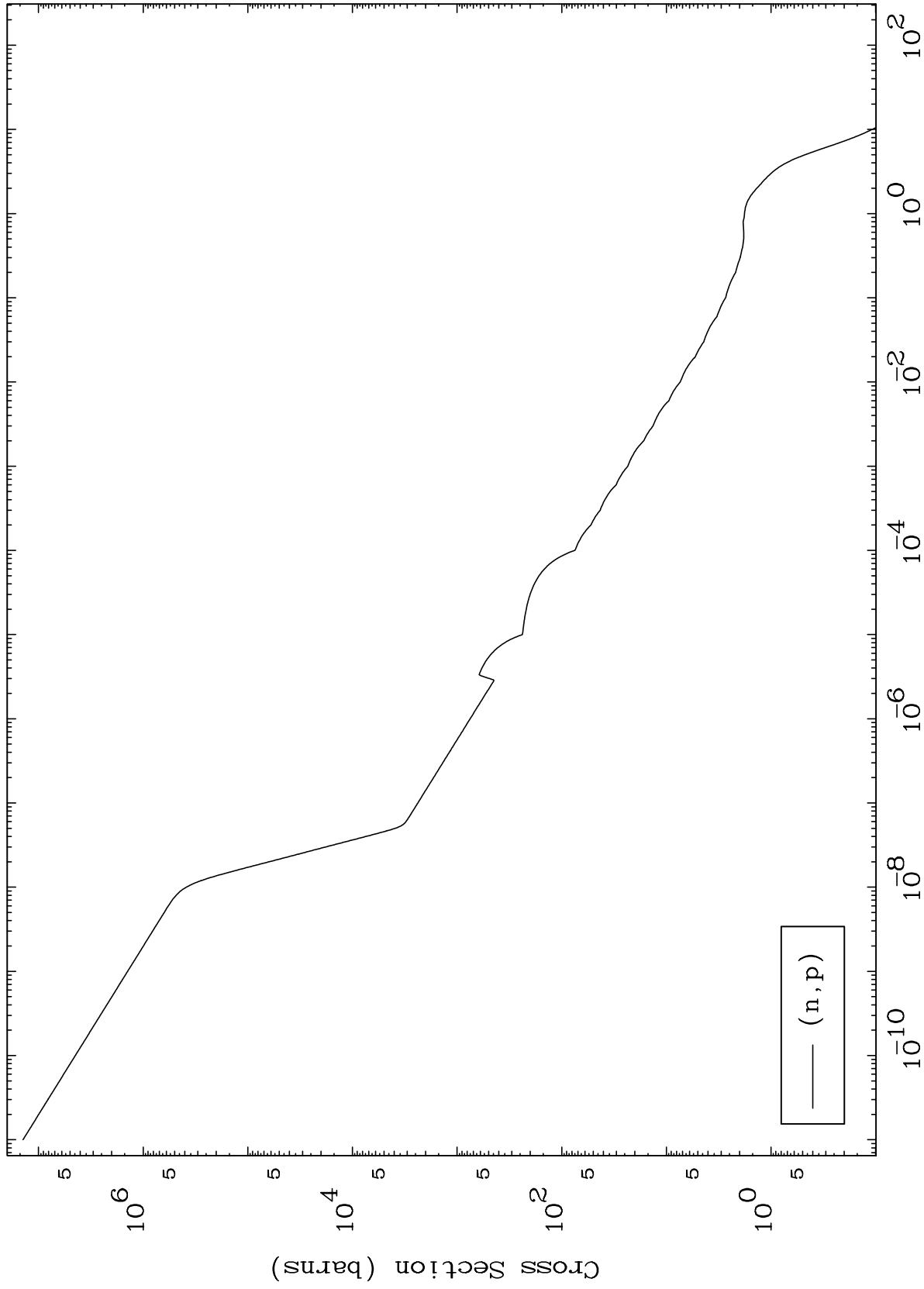
59-Pr-124



MAT 5874

(n,p) Levels  
293 Kelvin Cross Sections

59-Pr-124



12

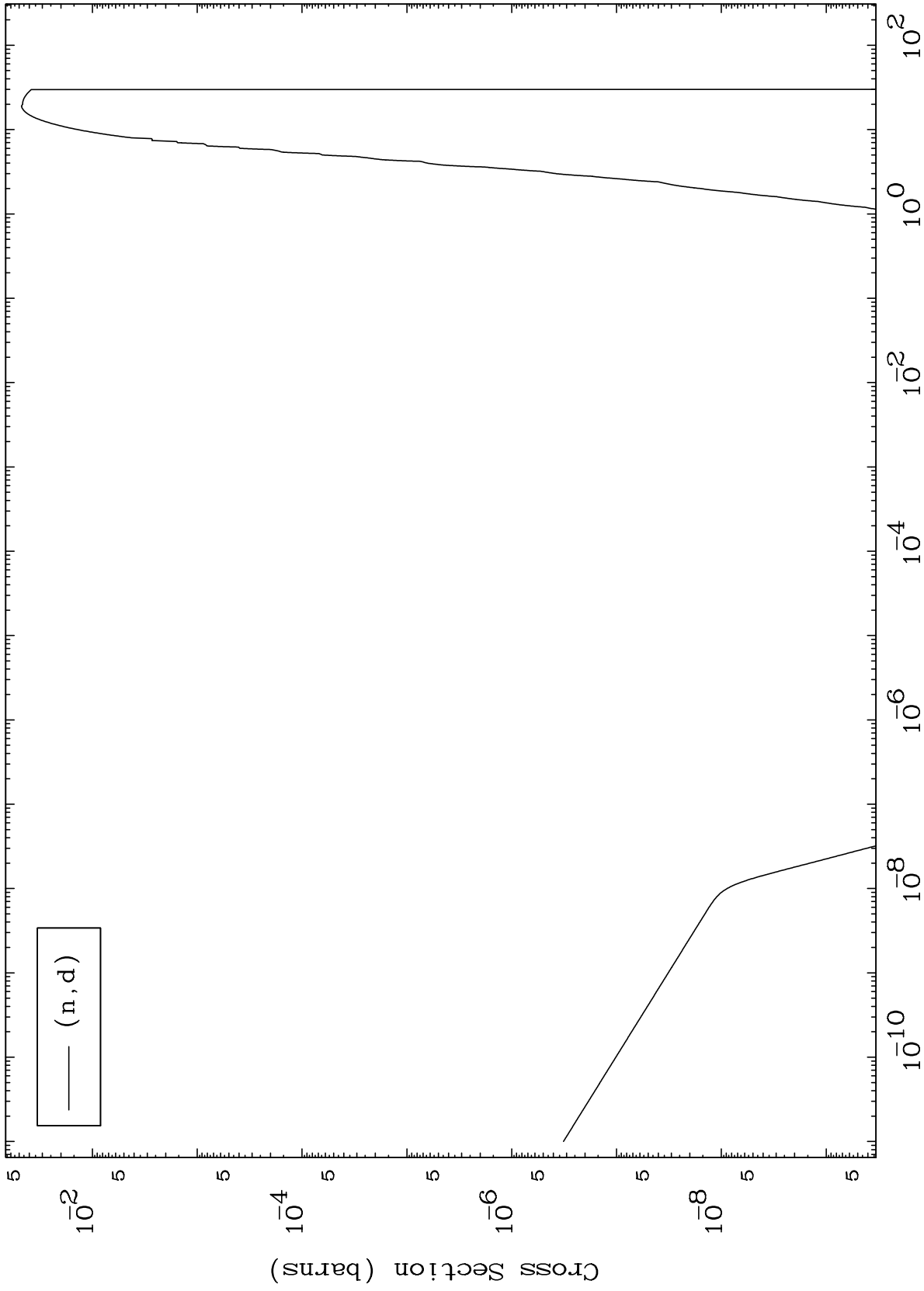
Incident Energy (MeV)

59-Pr-124

MAT 5874

(n,d) Levels  
293 Kelvin Cross Sections

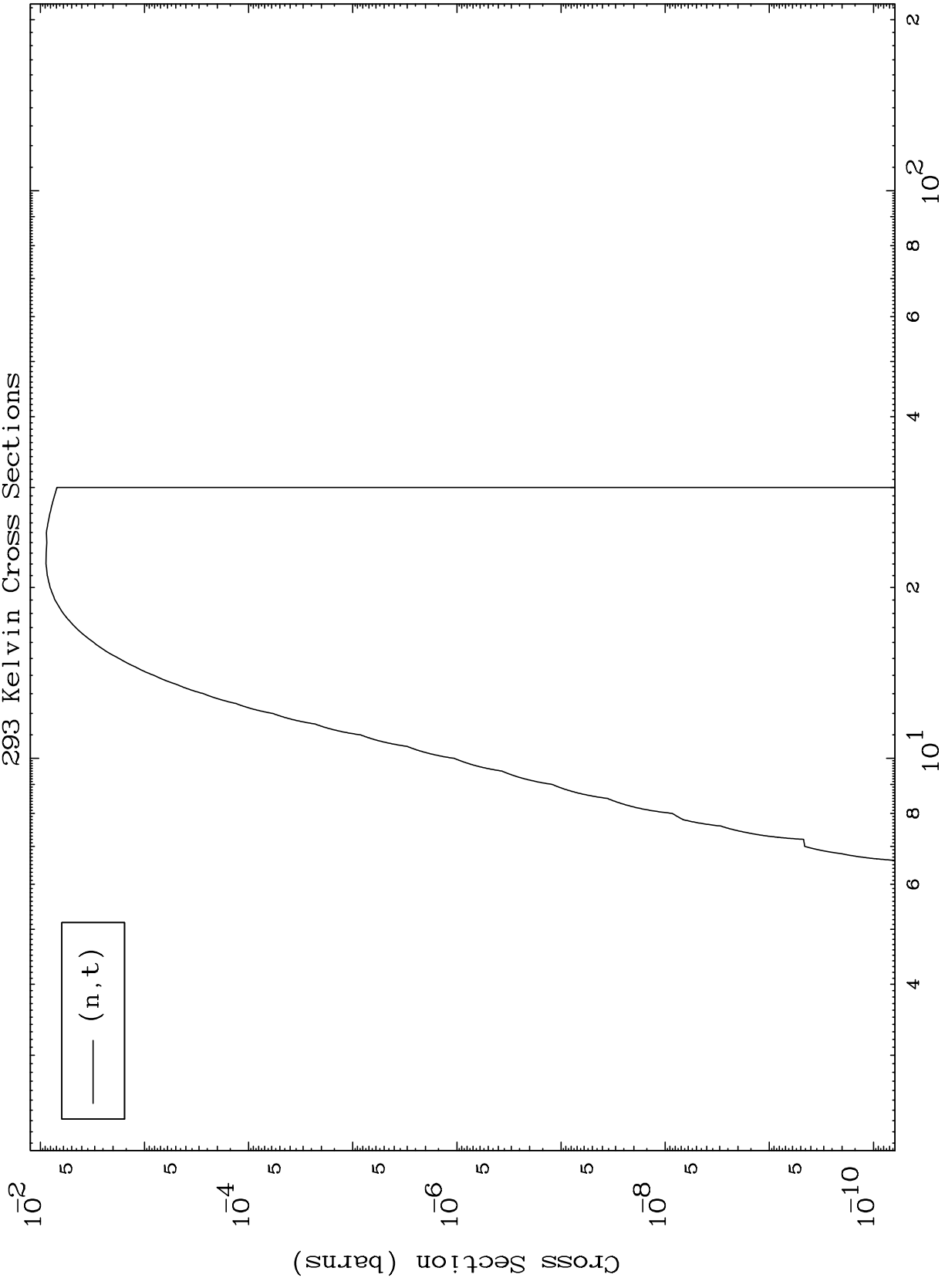
59-Pr-124



MAT 5874

(n,t) Levels  
293 Kelvin Cross Sections

59-Pr-124



14

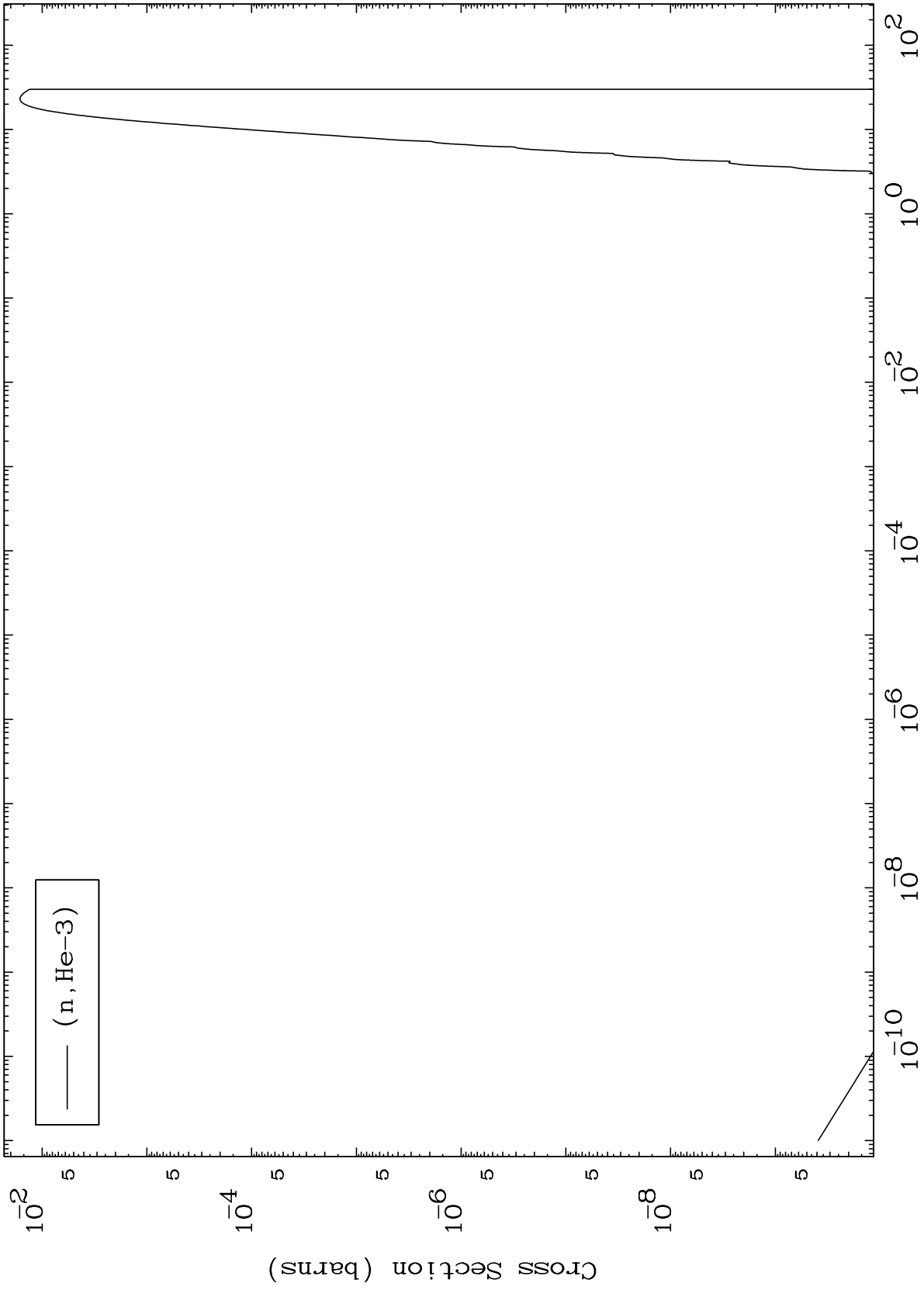
Incident Energy (MeV)

59-Pr-124

MAT 5874

(n,He3) Levels  
293 Kelvin Cross Sections

59-Pr-124



(n, He-3)

59-Pr-124

Incident Energy (MeV)

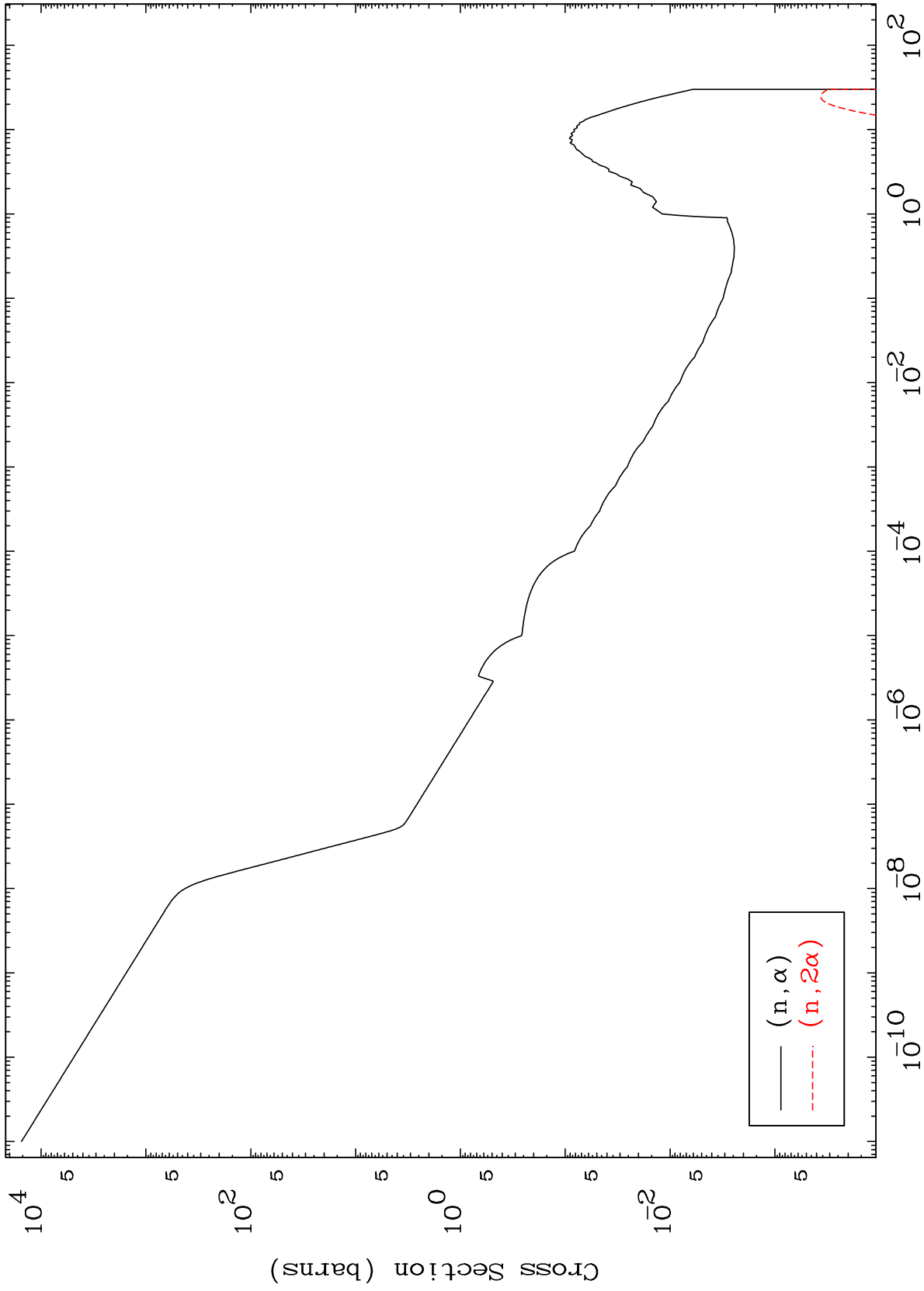
15



MAT 5874

(n,α) Levels  
293 Kelvin Cross Sections

59-Pr-124



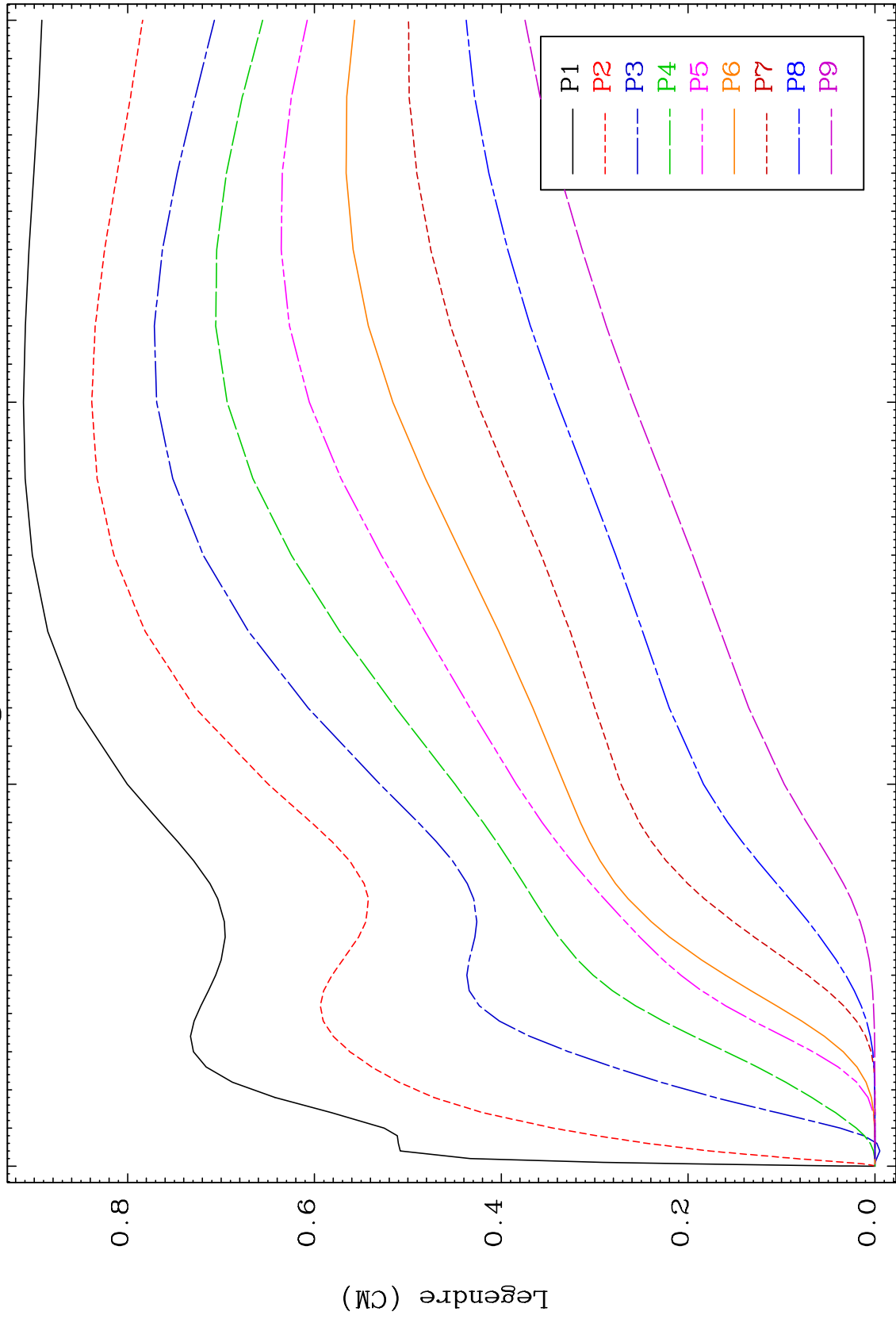
16

59-Pr-124

MAT 5874

Elastic Legendre Coefficients

59-Pr-124



17

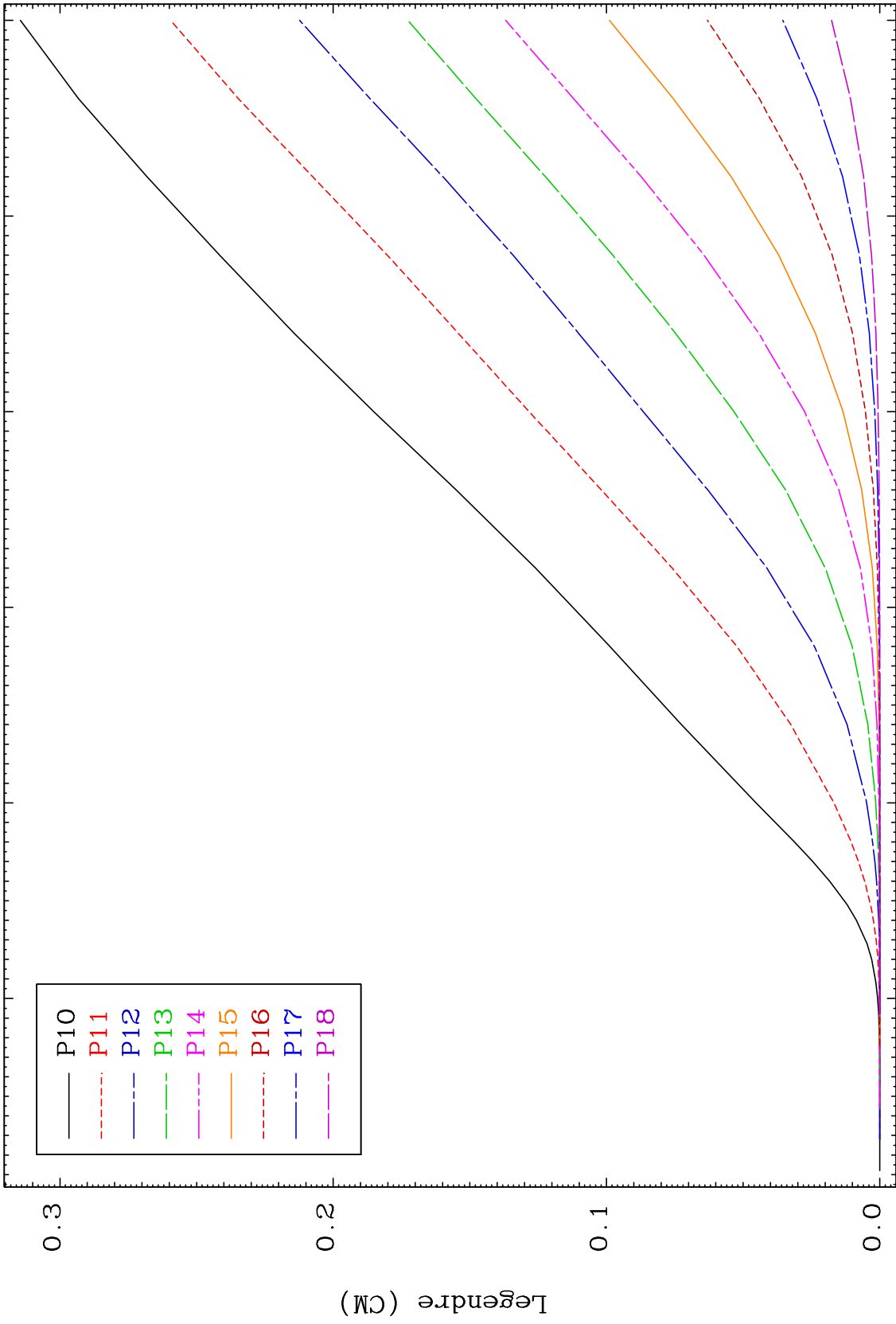
Incident Energy (MeV)

59-Pr-124

MAT 5874

Elastic Legendre Coefficients

59-Pr-124



18

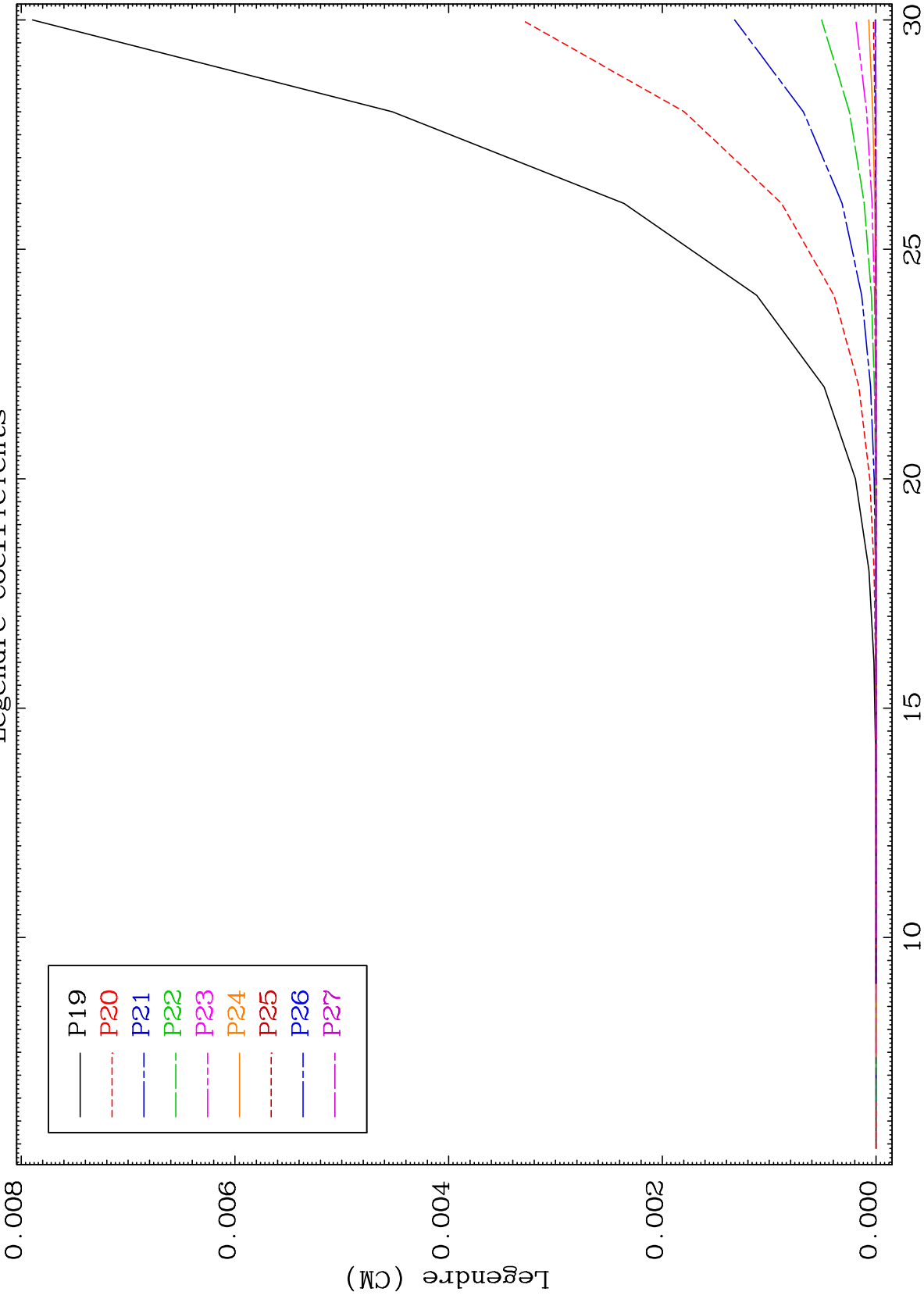
Incident Energy (MeV)

59-Pr-124

MAT 5874

Elastic Legendre Coefficients

59-Pr-124



19

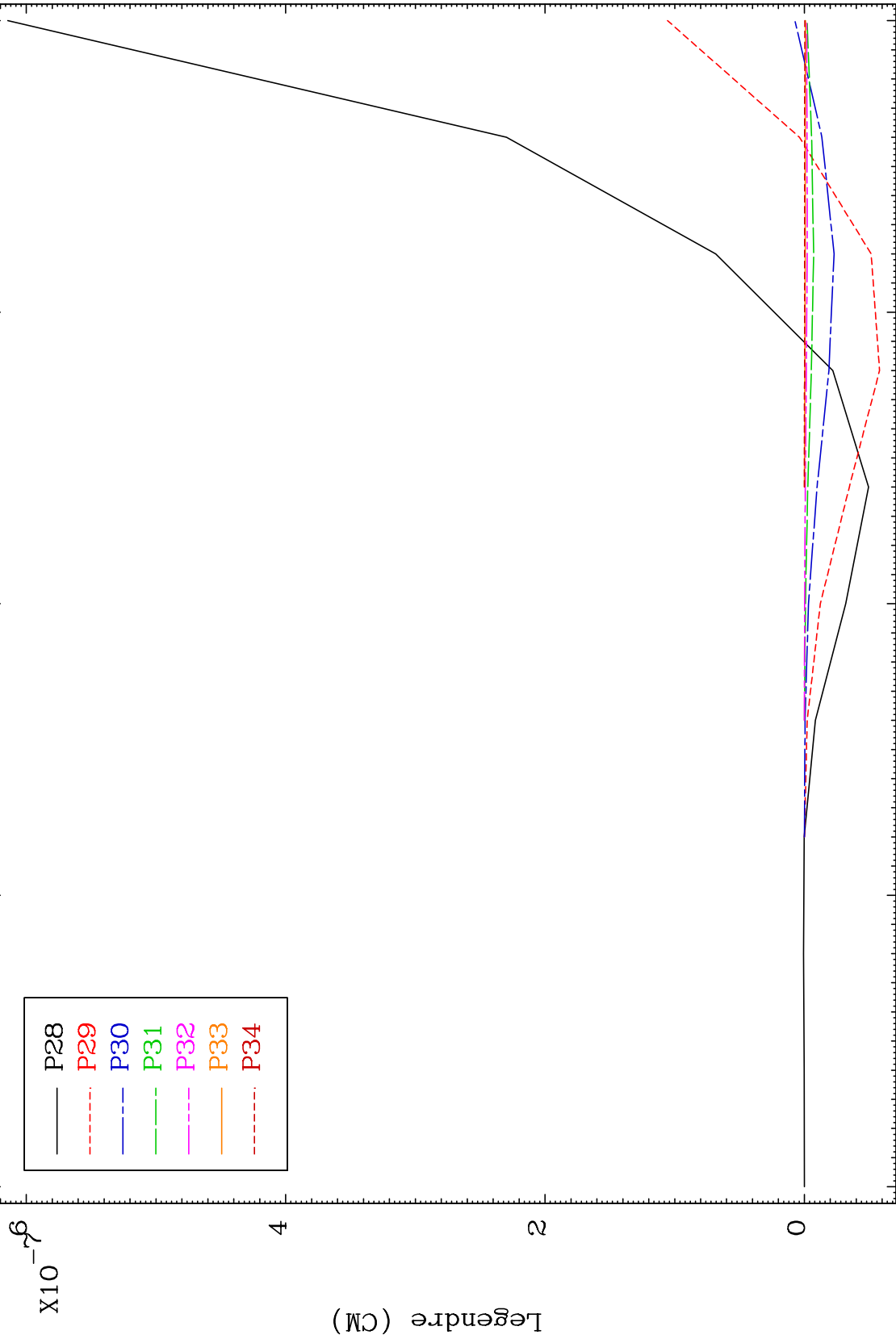
Incident Energy (MeV)

59-Pr-124

MAT 5874

### Elastic Legendre Coefficients

59-Pr-124



20

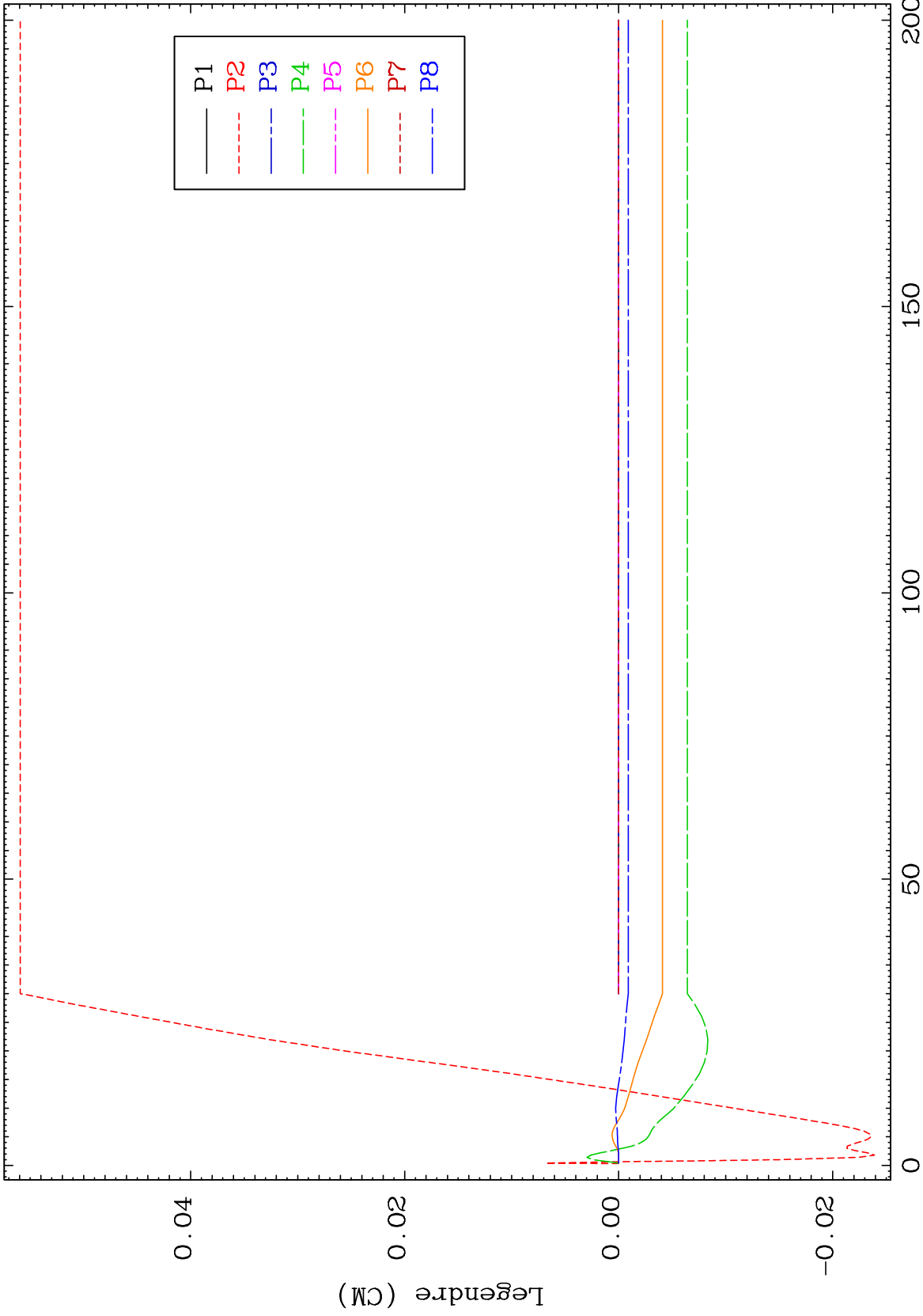
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



21

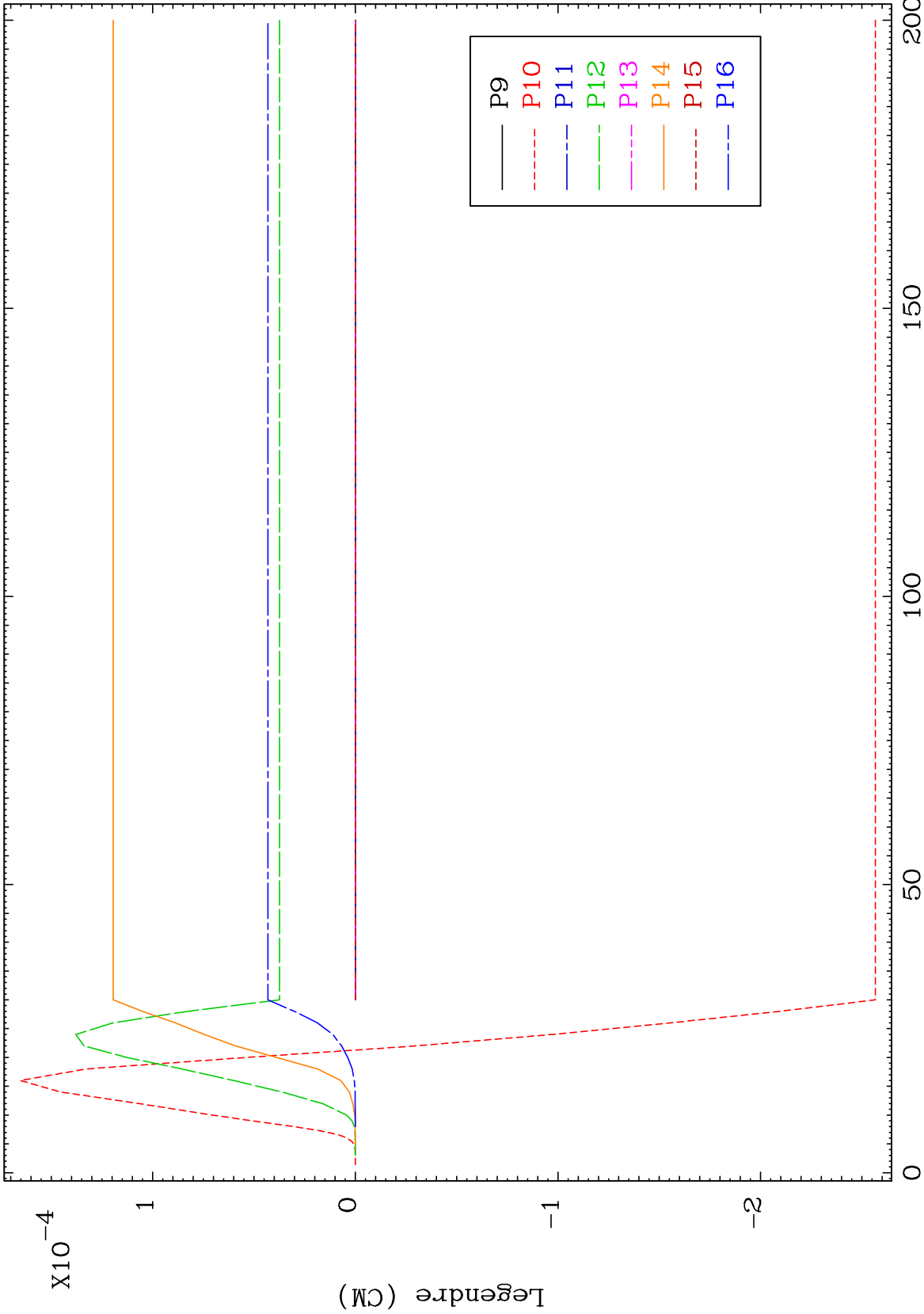
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



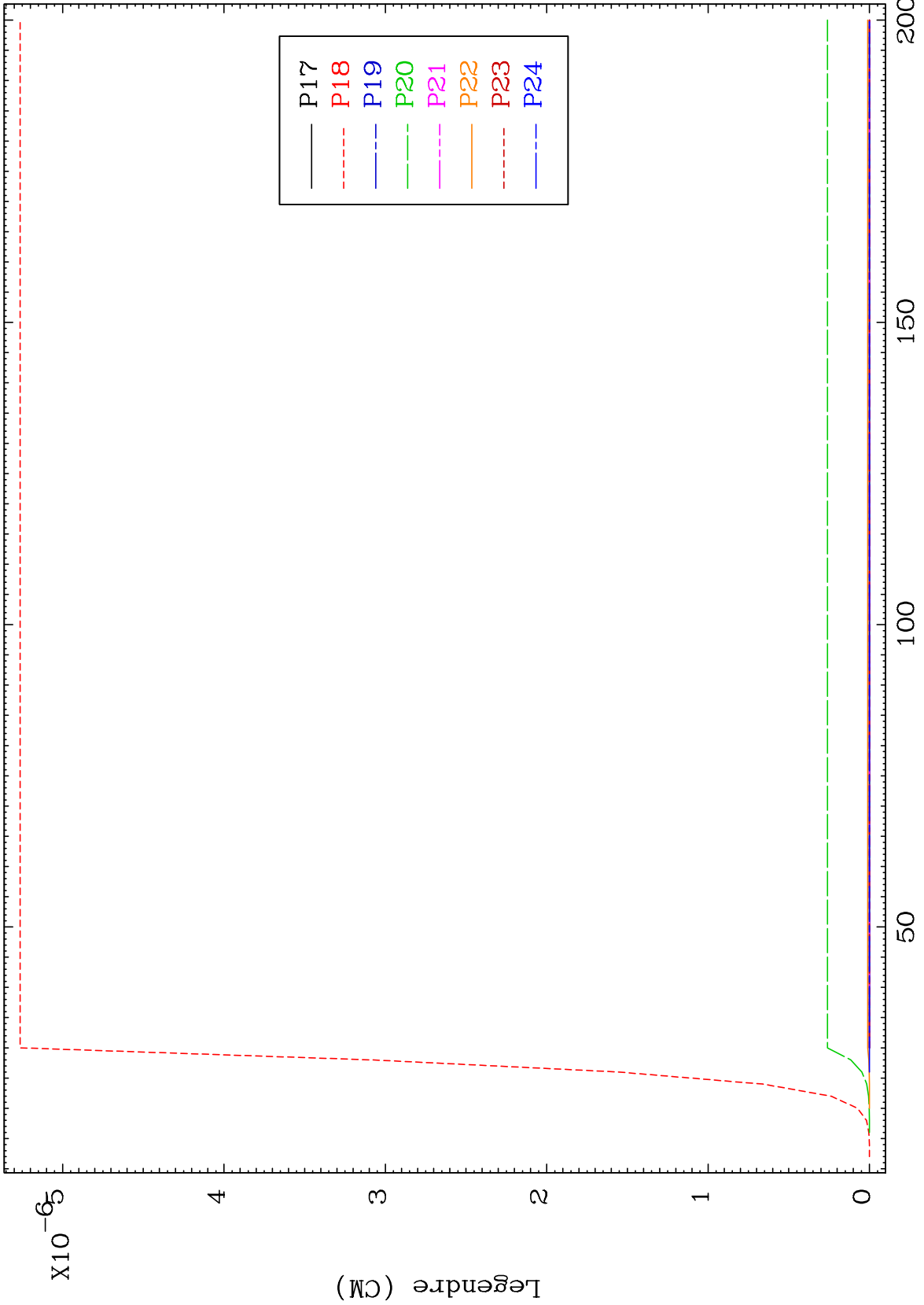
22

59-Pr-124

MAT 5874

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

59-Pr-124



23

Incident Energy (MeV)

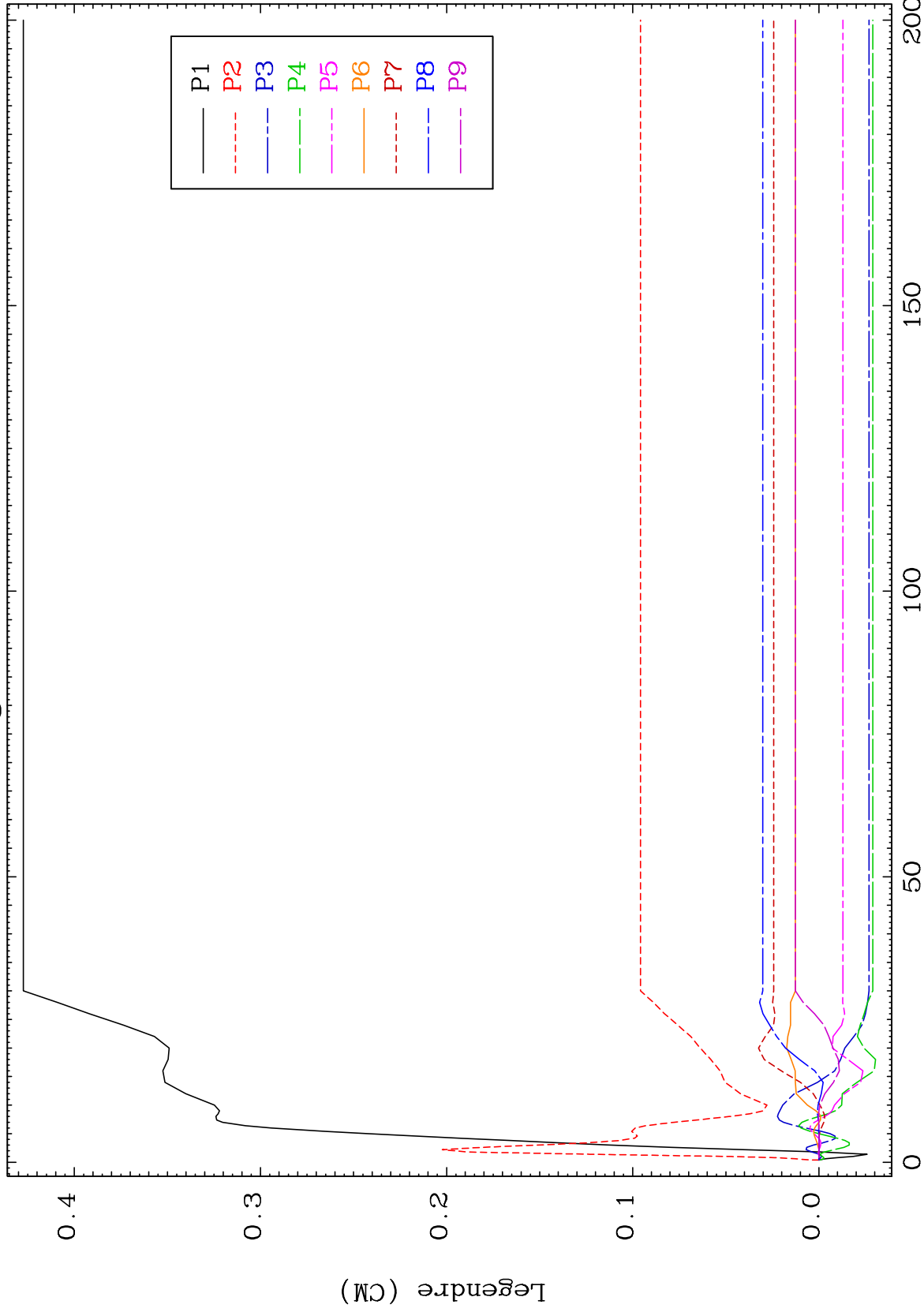
59-Pr-124



MAT 5874

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

59-Pr-124



24

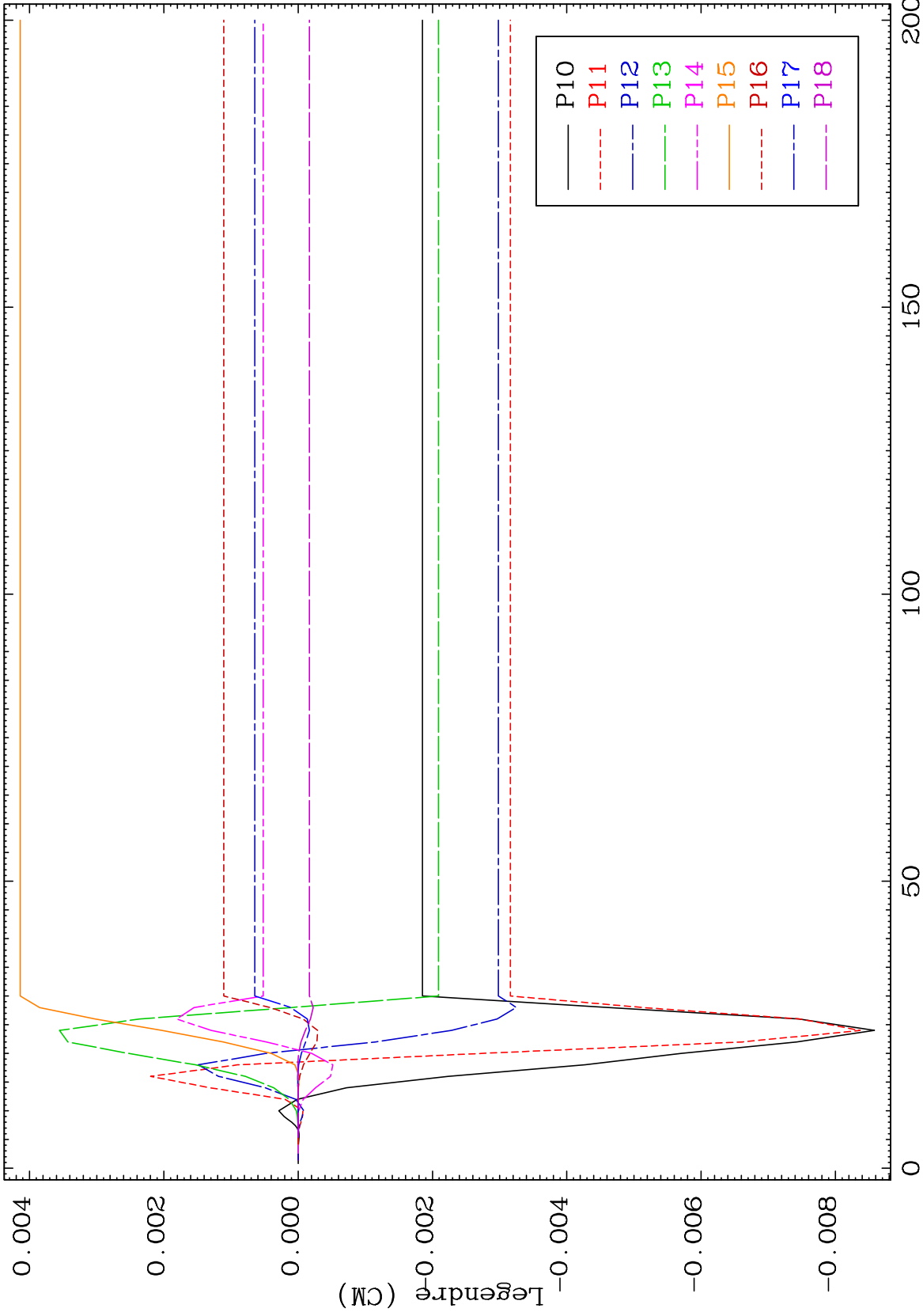
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



25

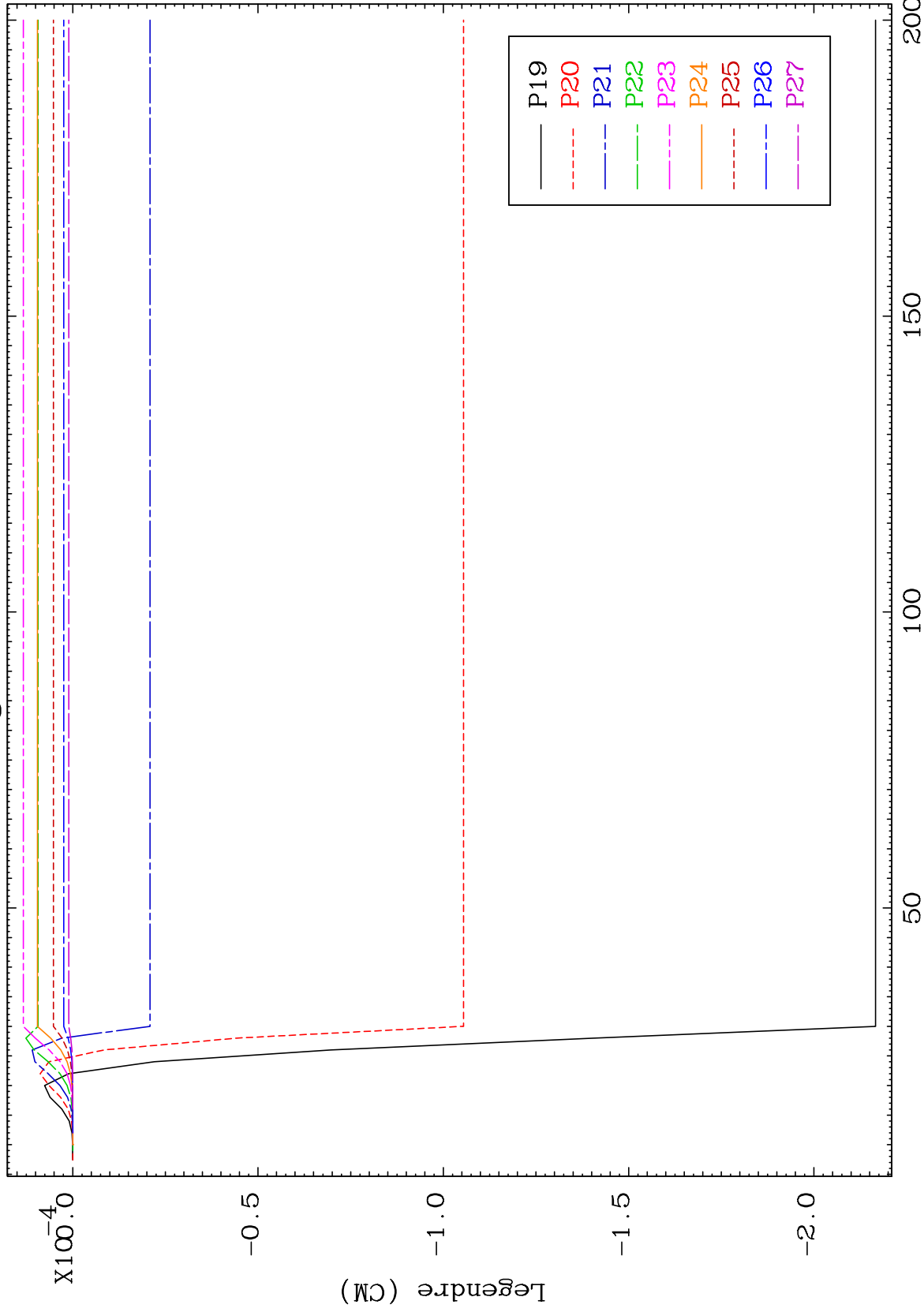
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



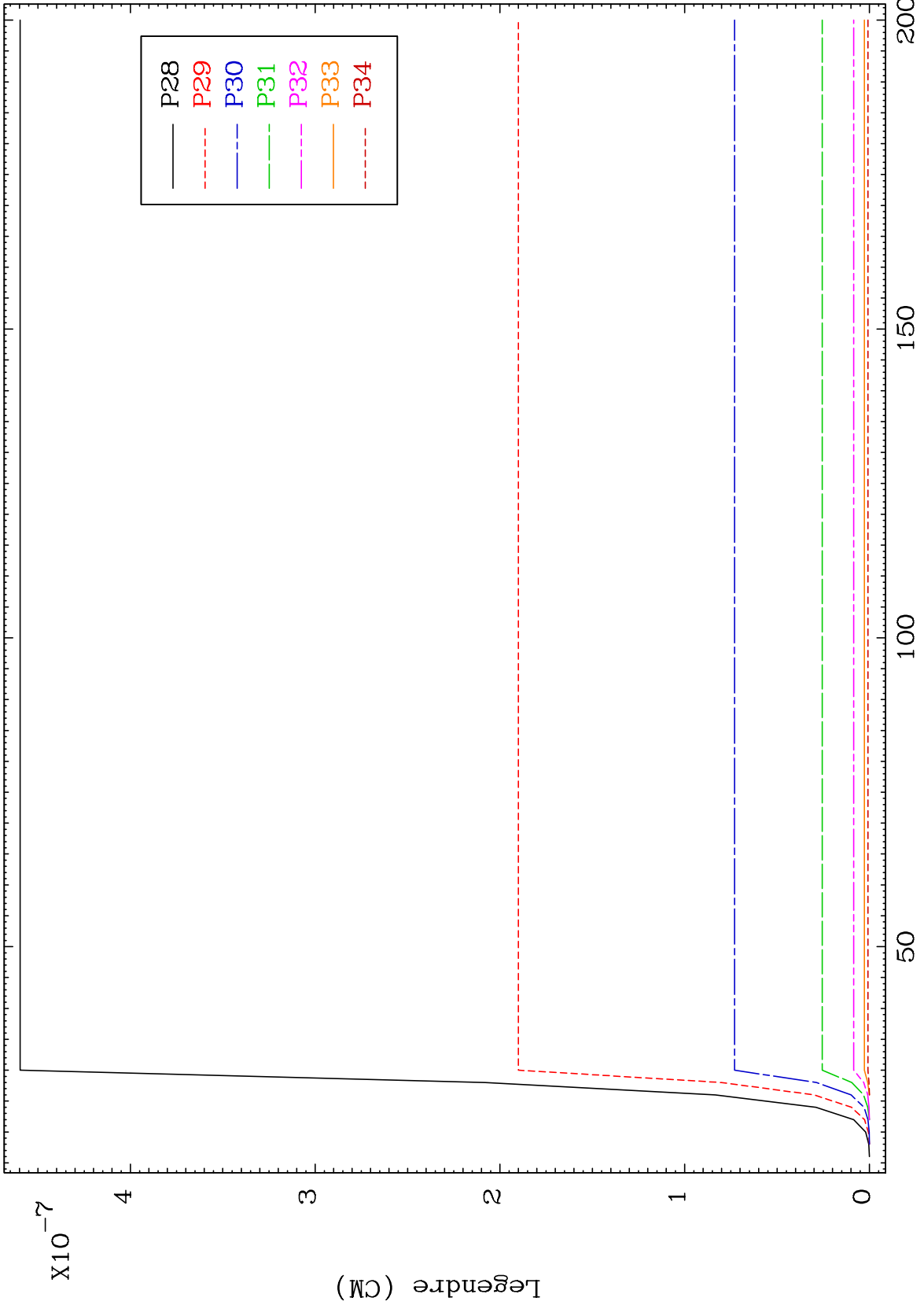
26

59-Pr-124

MAT 5874

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

59-Pr-124



27

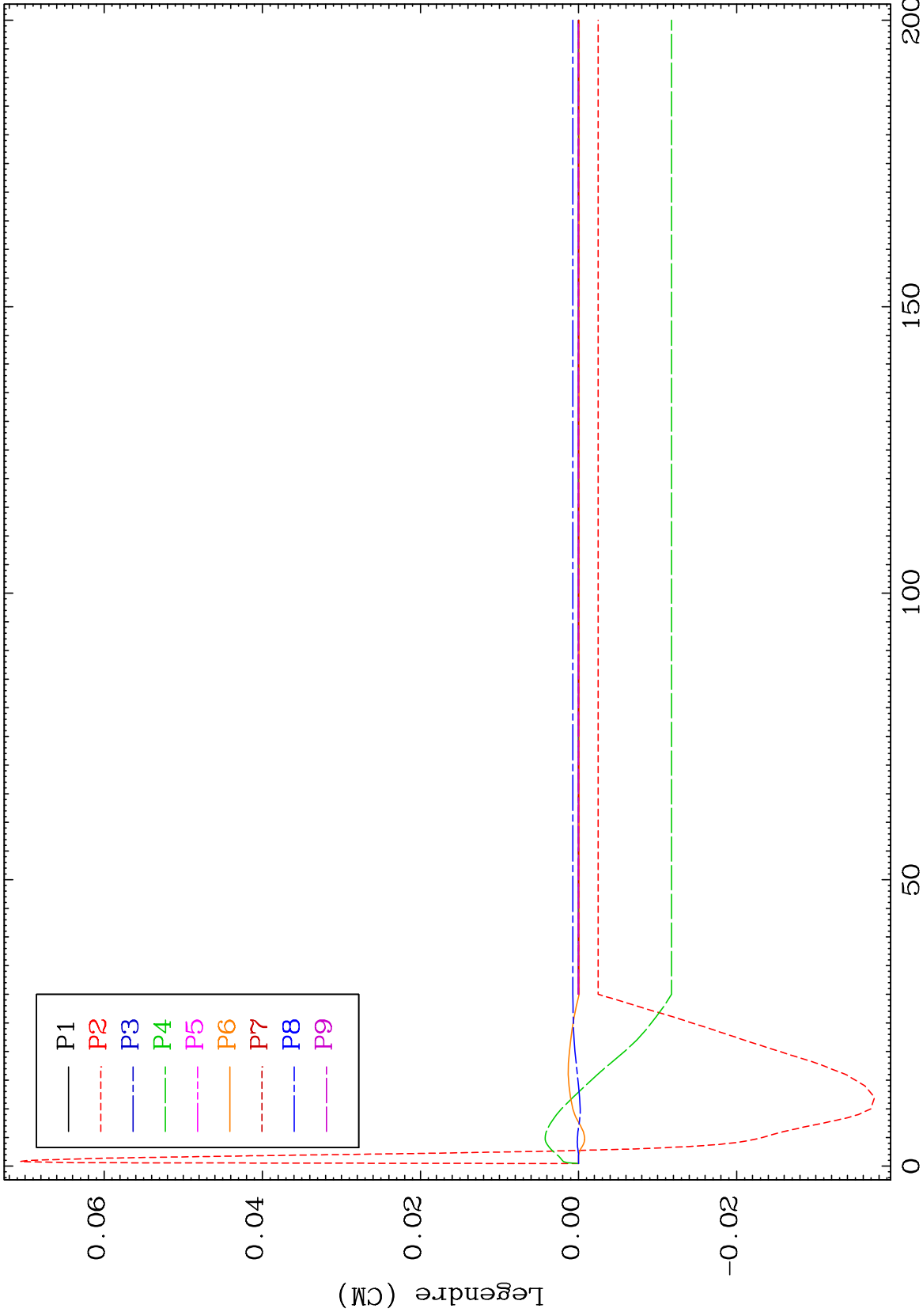
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



28

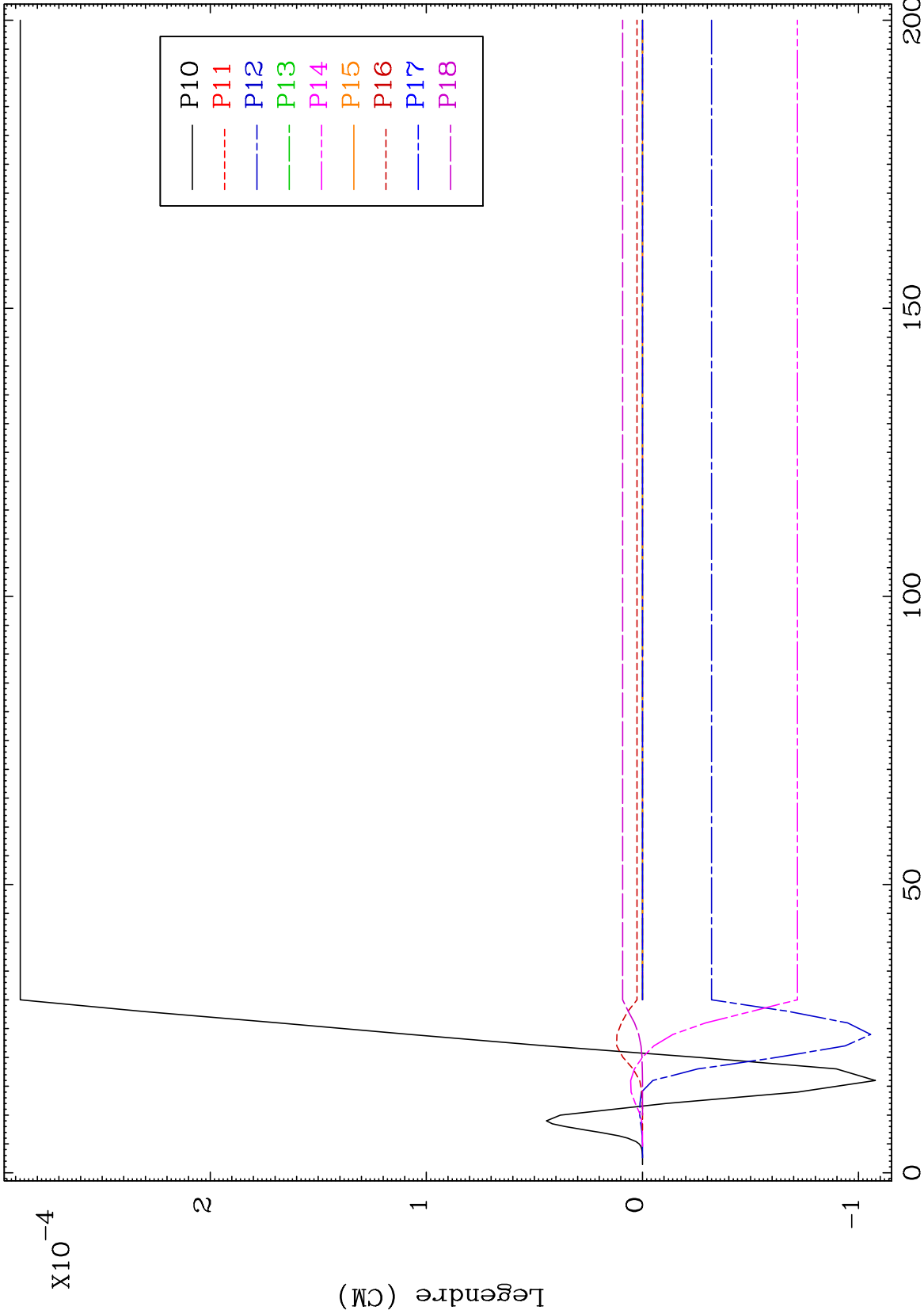
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



29

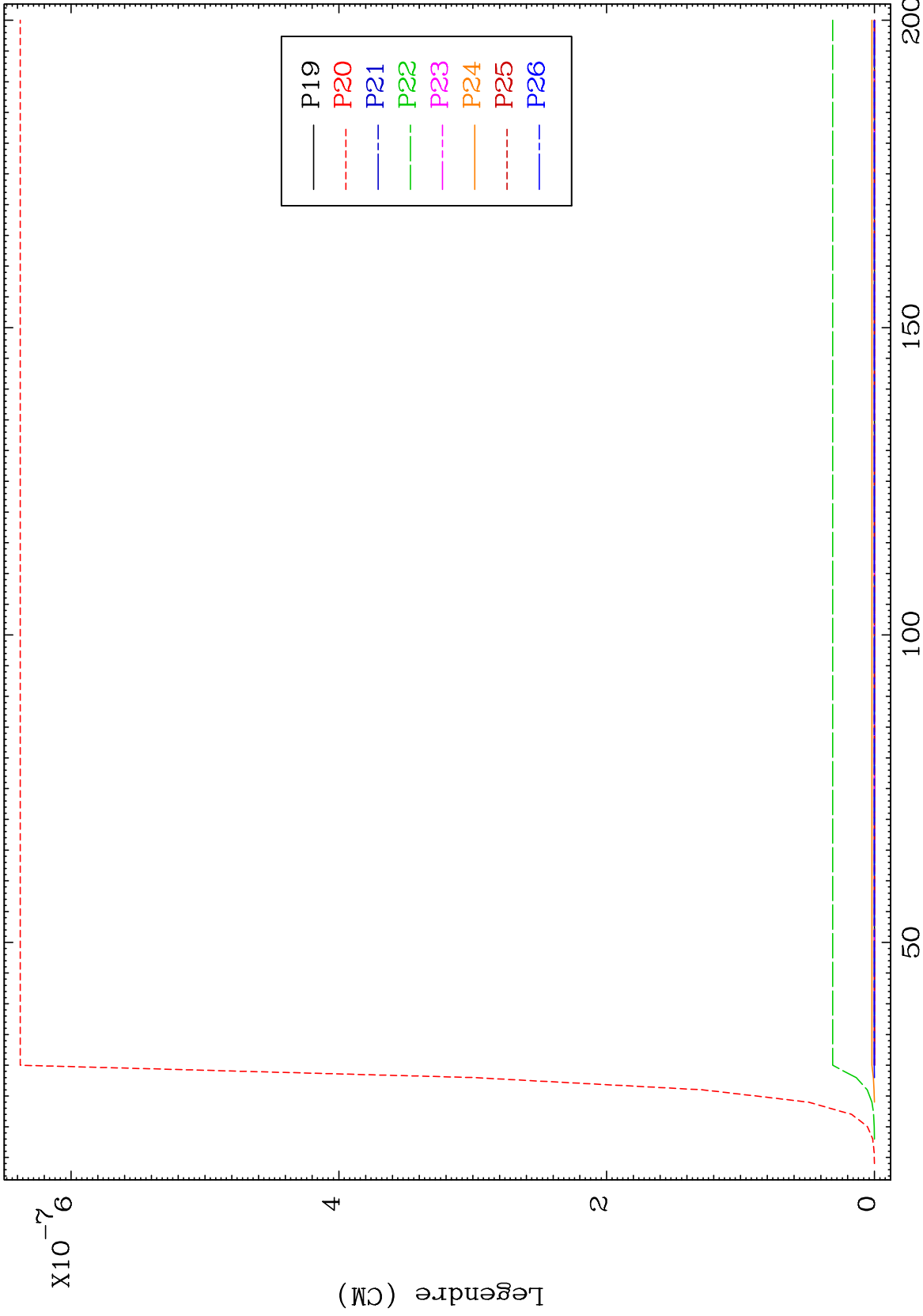
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



30

50

100

150

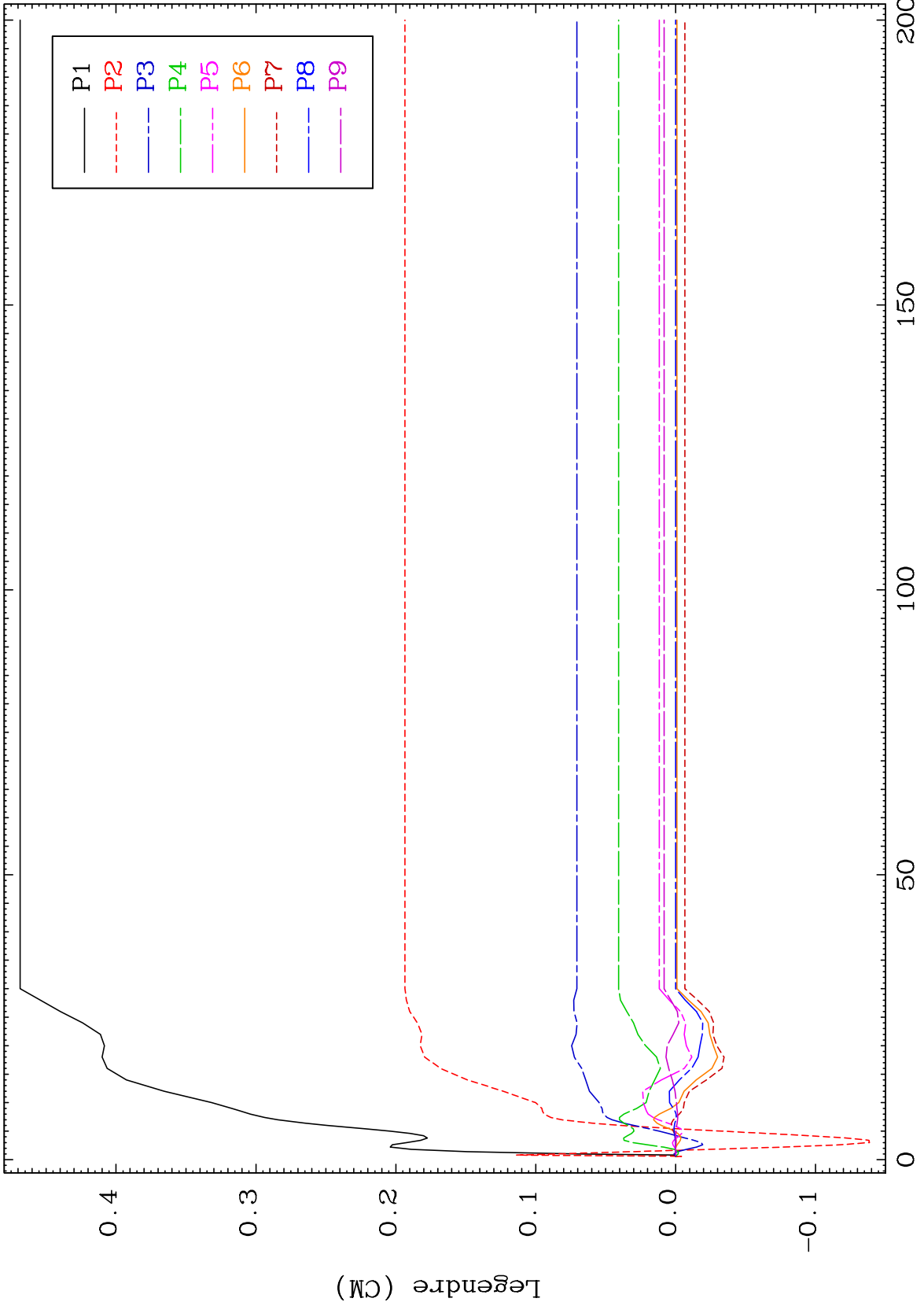
200

59-Pr-124

MAT 5874

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

59-Pr-124



31

Incident Energy (MeV)

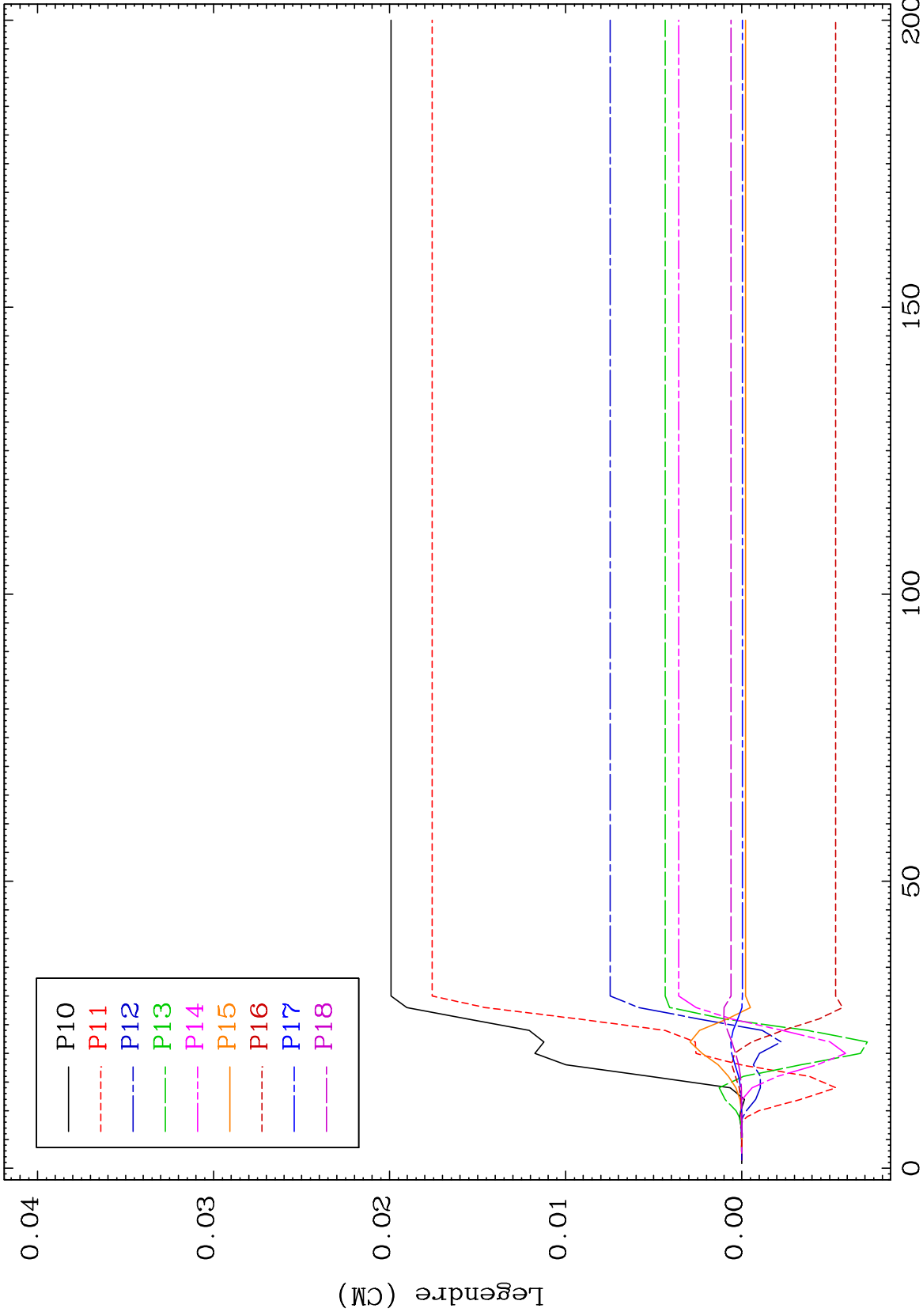
59-Pr-124



MAT 5874

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

59-Pr-124



32

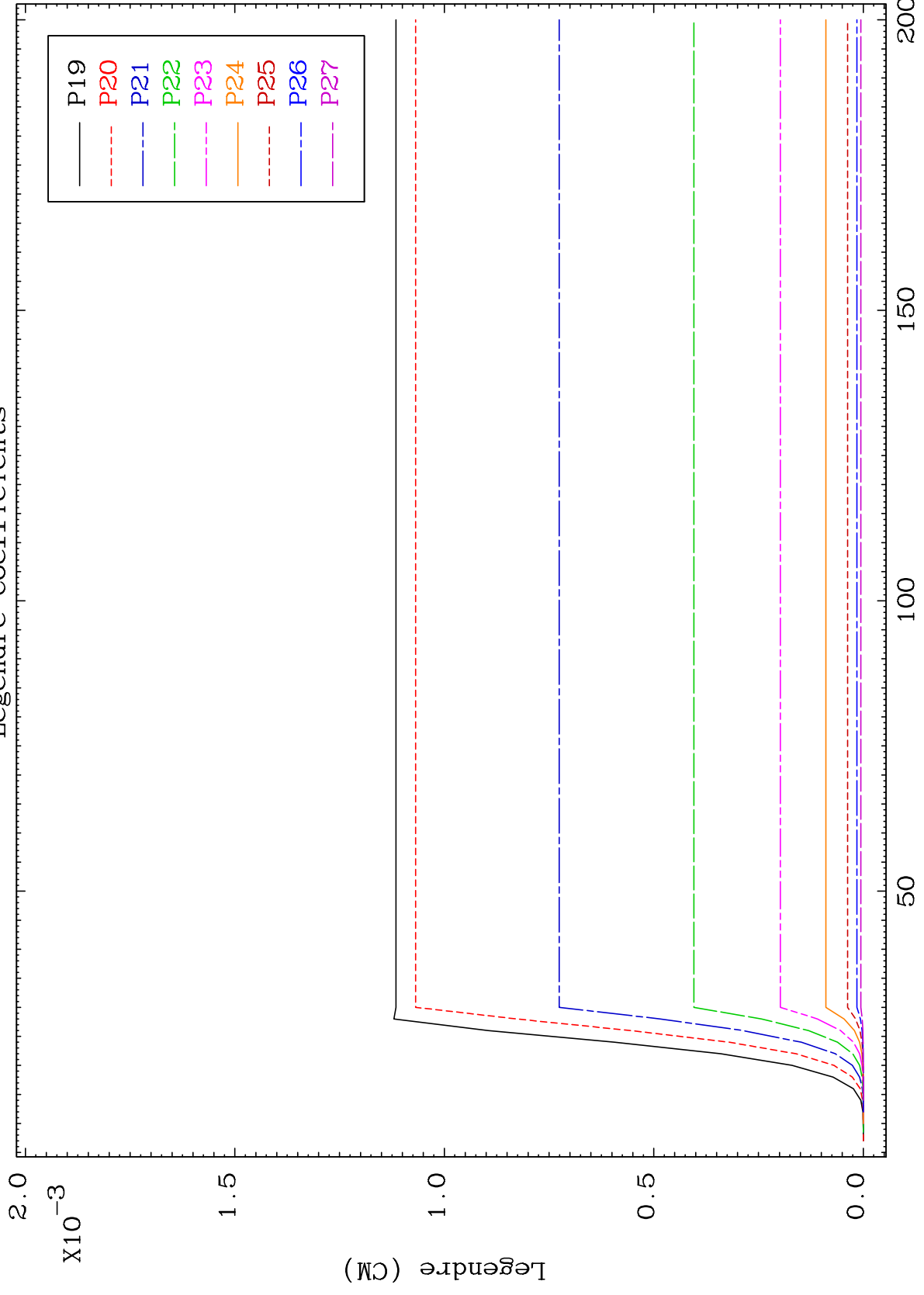
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



33

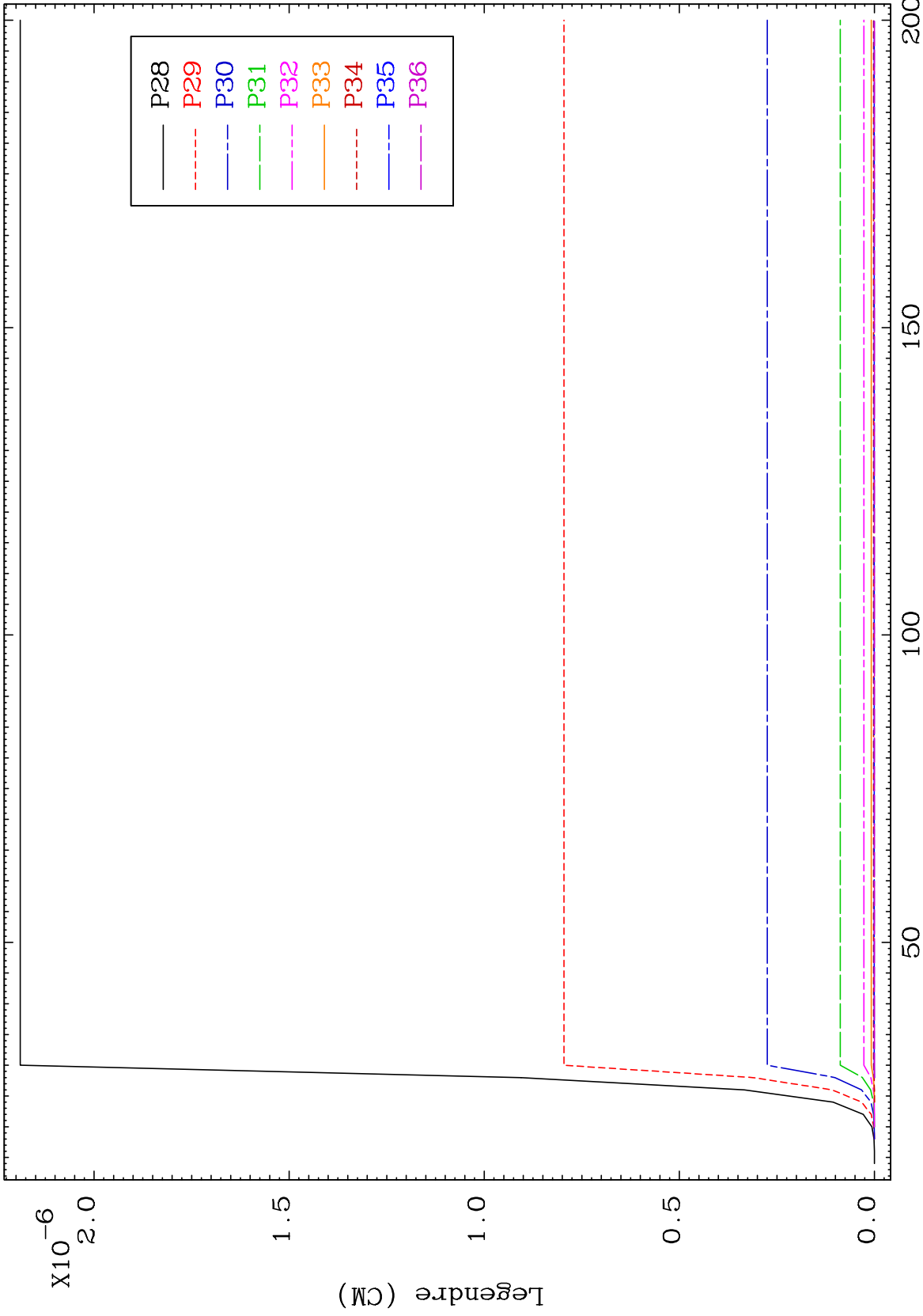
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



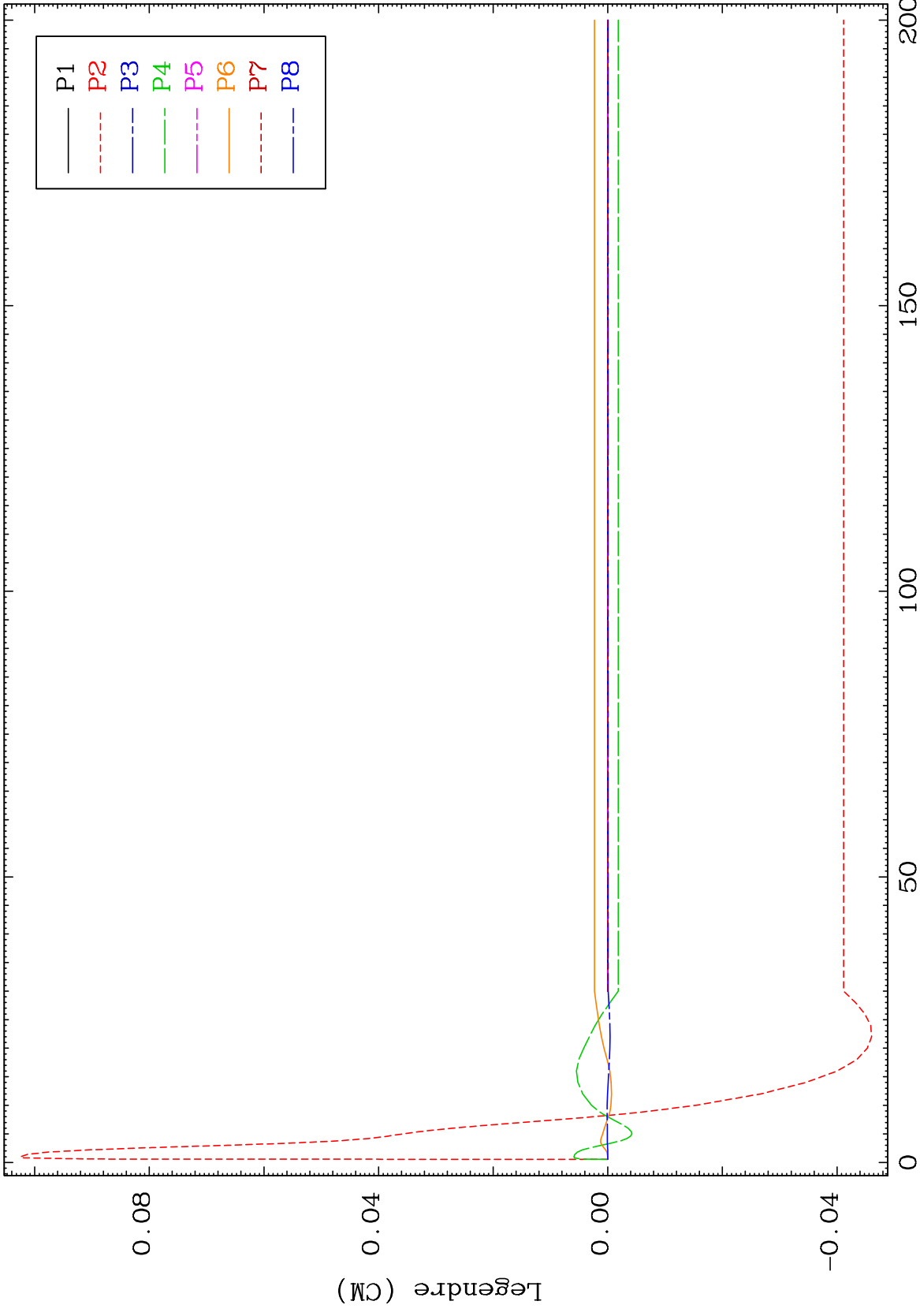
34

59-Pr-124

MAT 5874

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

59-Pr-124



35

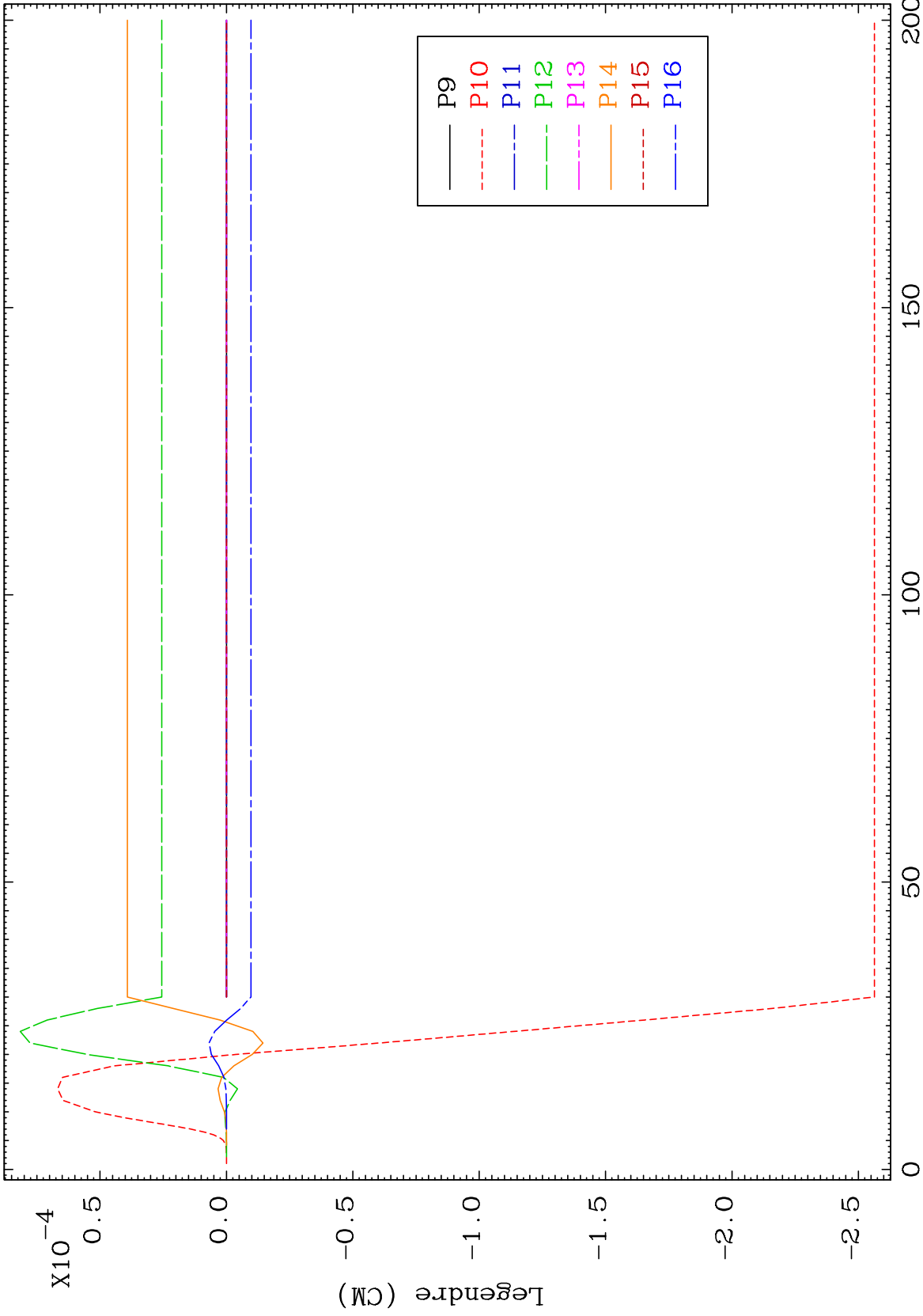
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



36

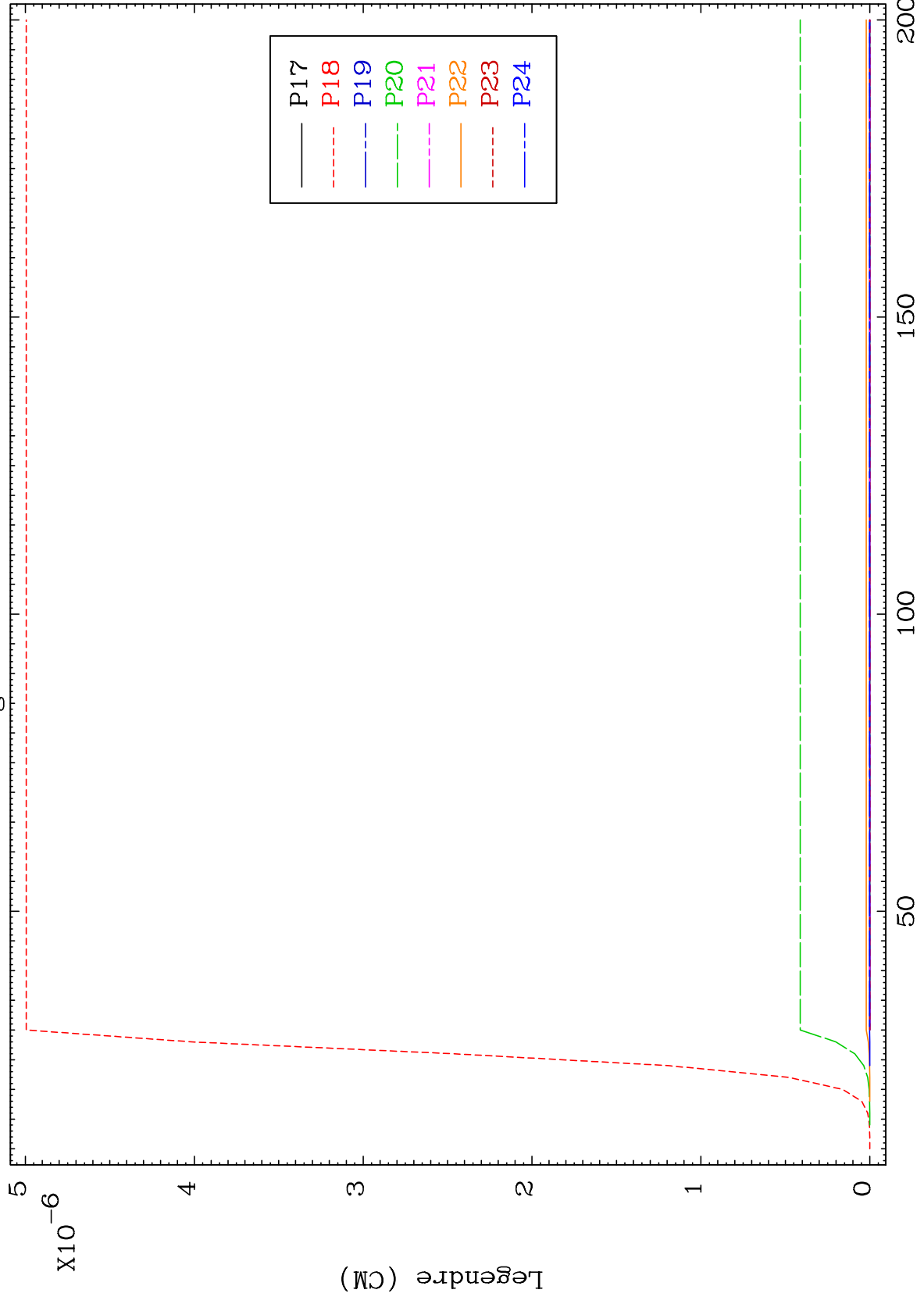
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



37

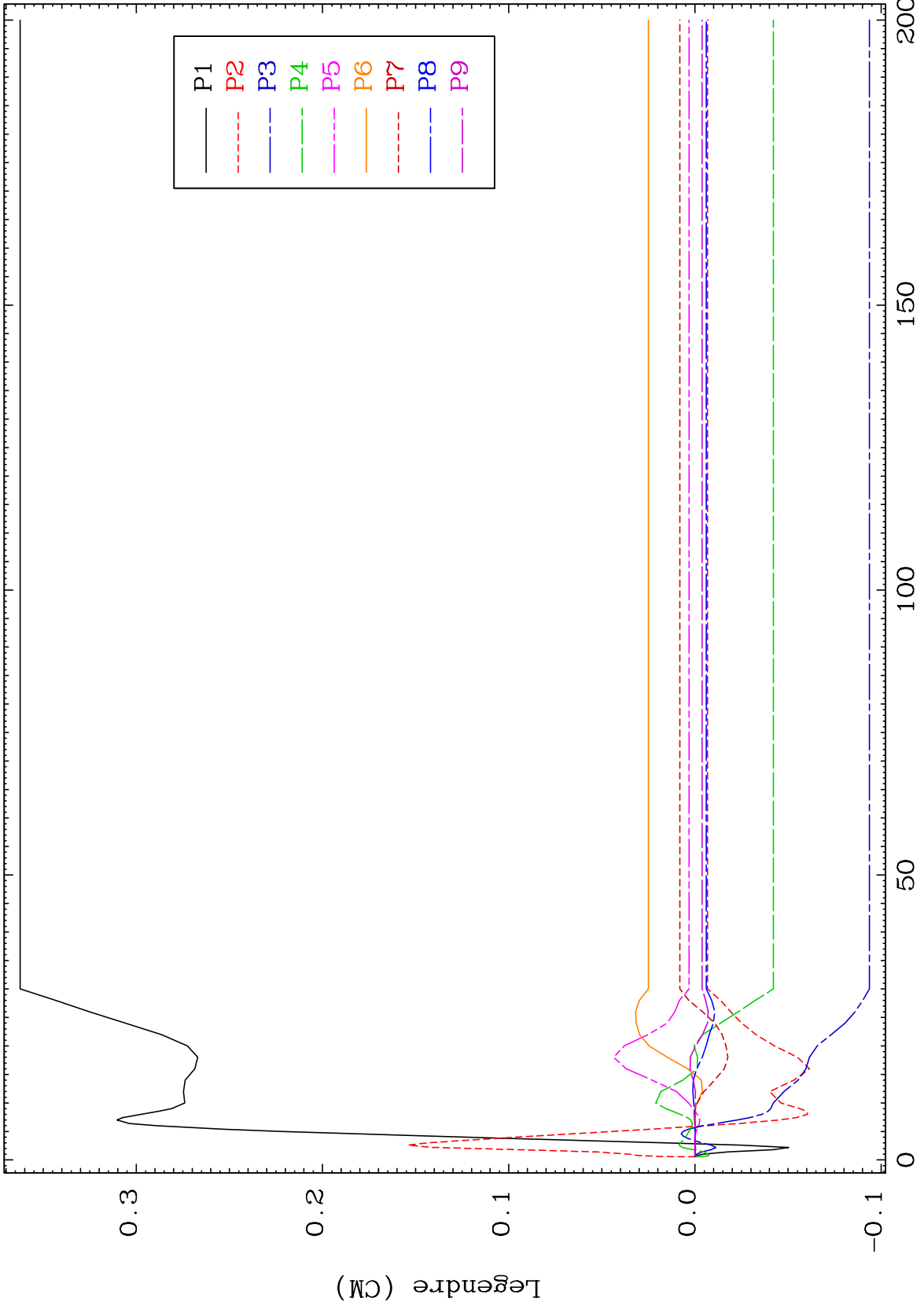
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



38

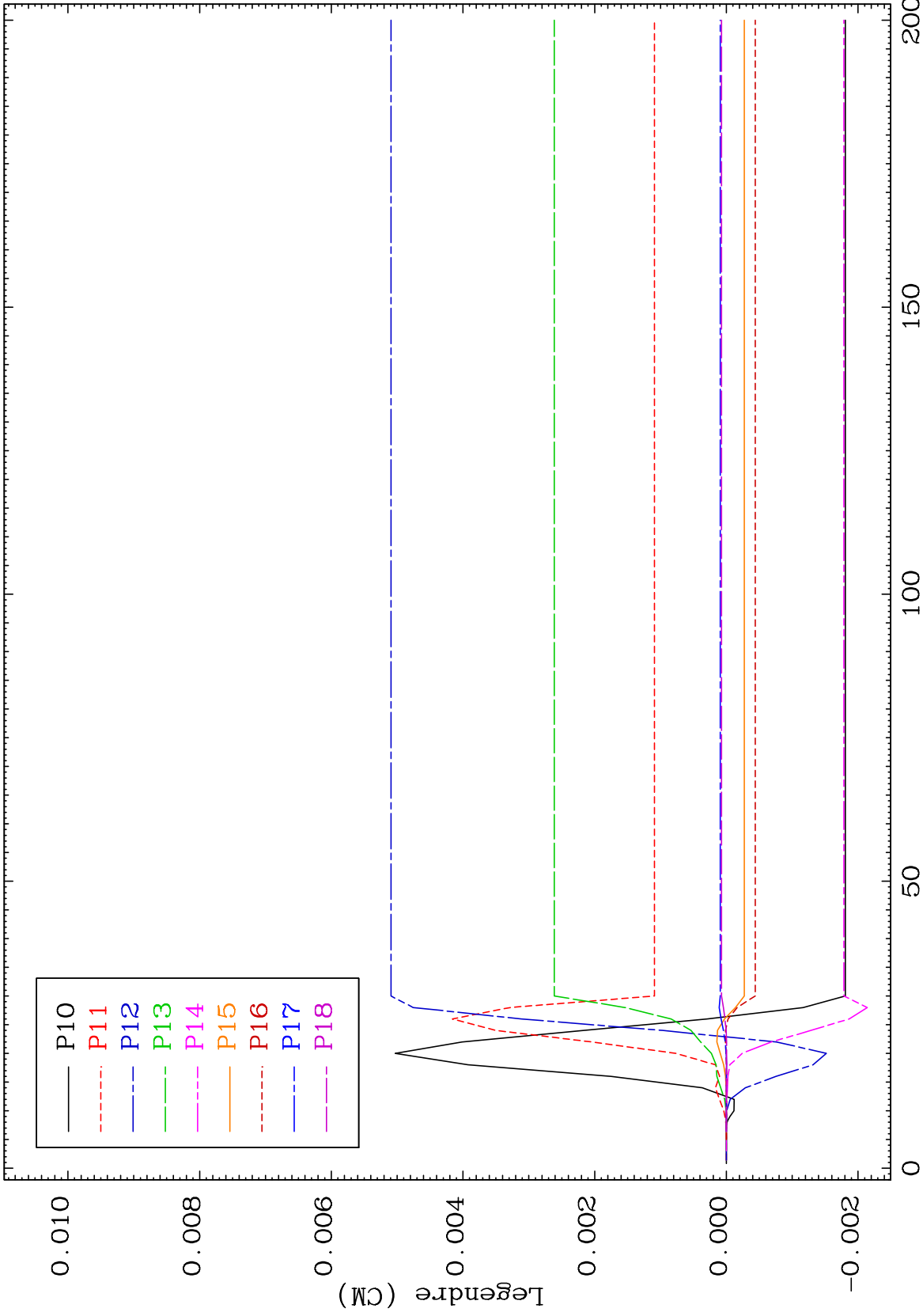
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



39

Incident Energy (MeV)

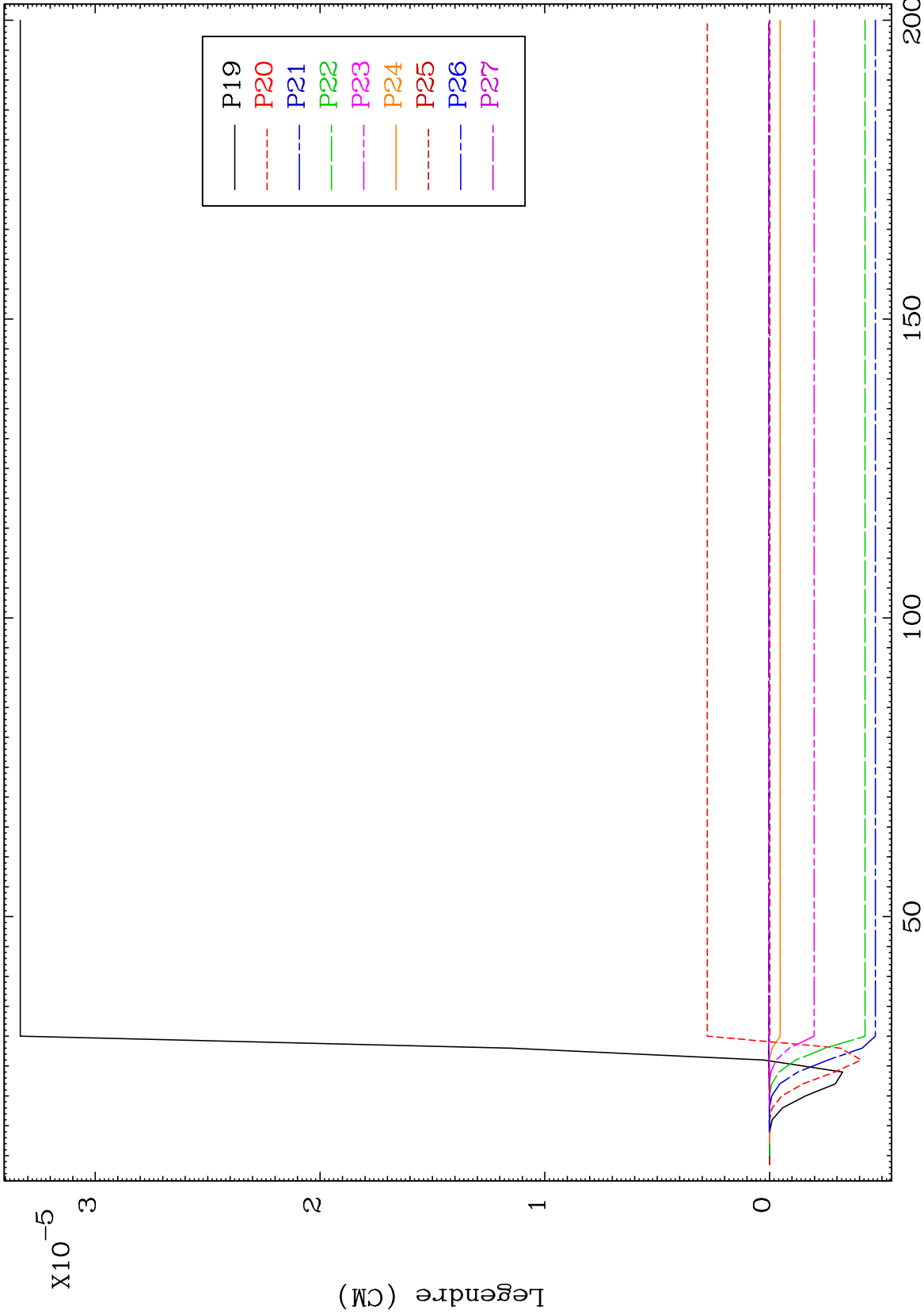
59-Pr-124



MAT 5874

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

59-Pr-124



40

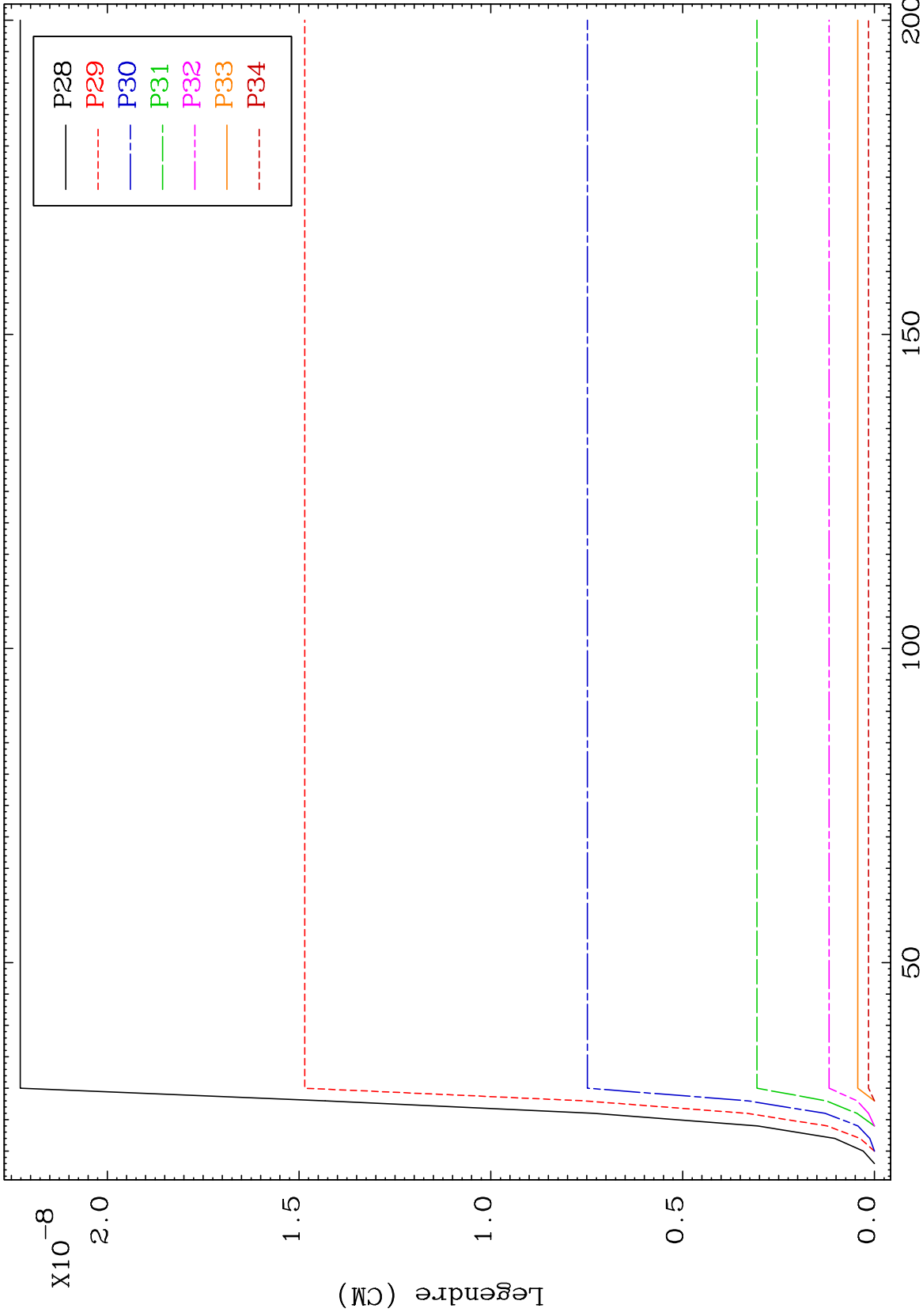
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



41

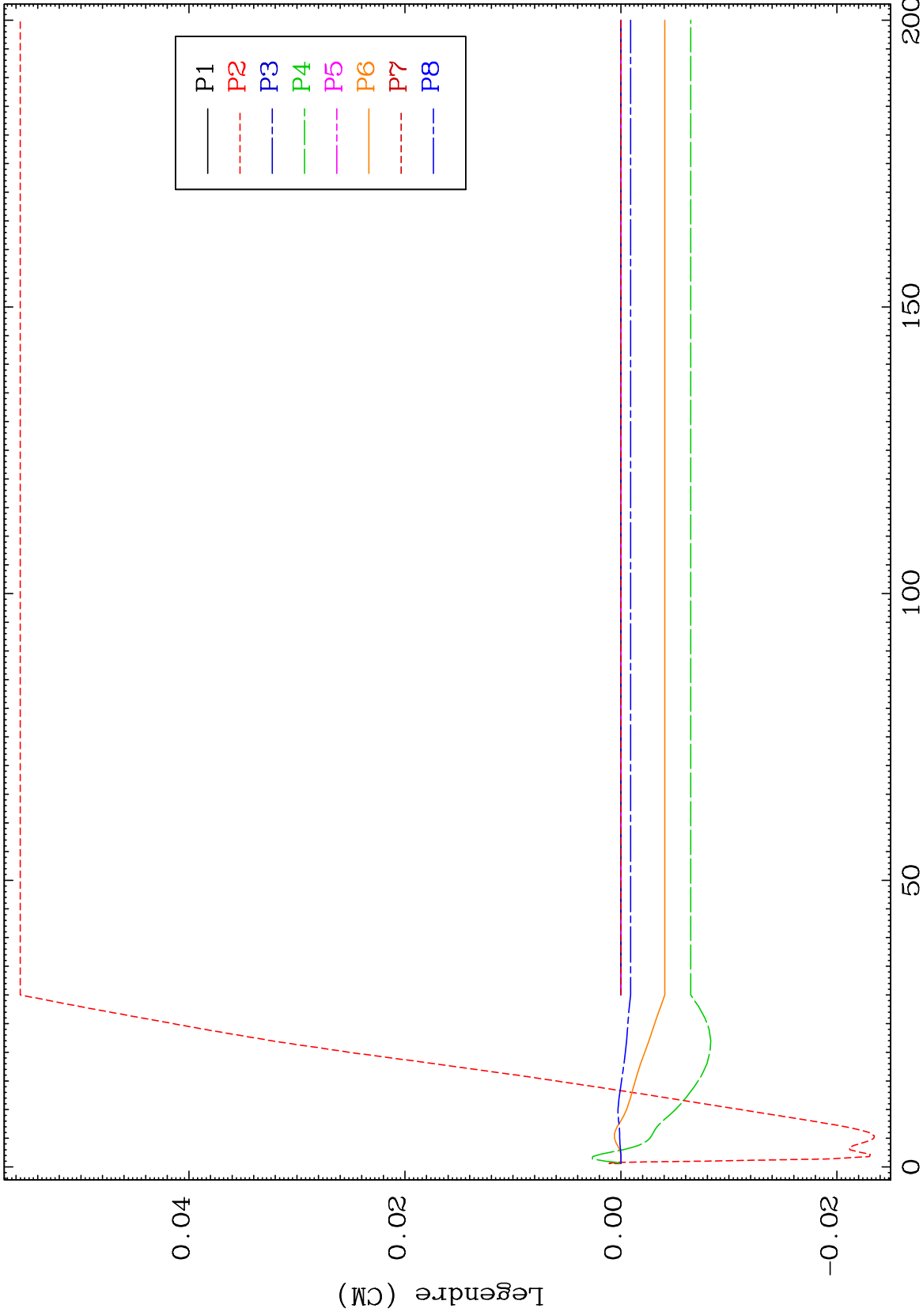
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



42

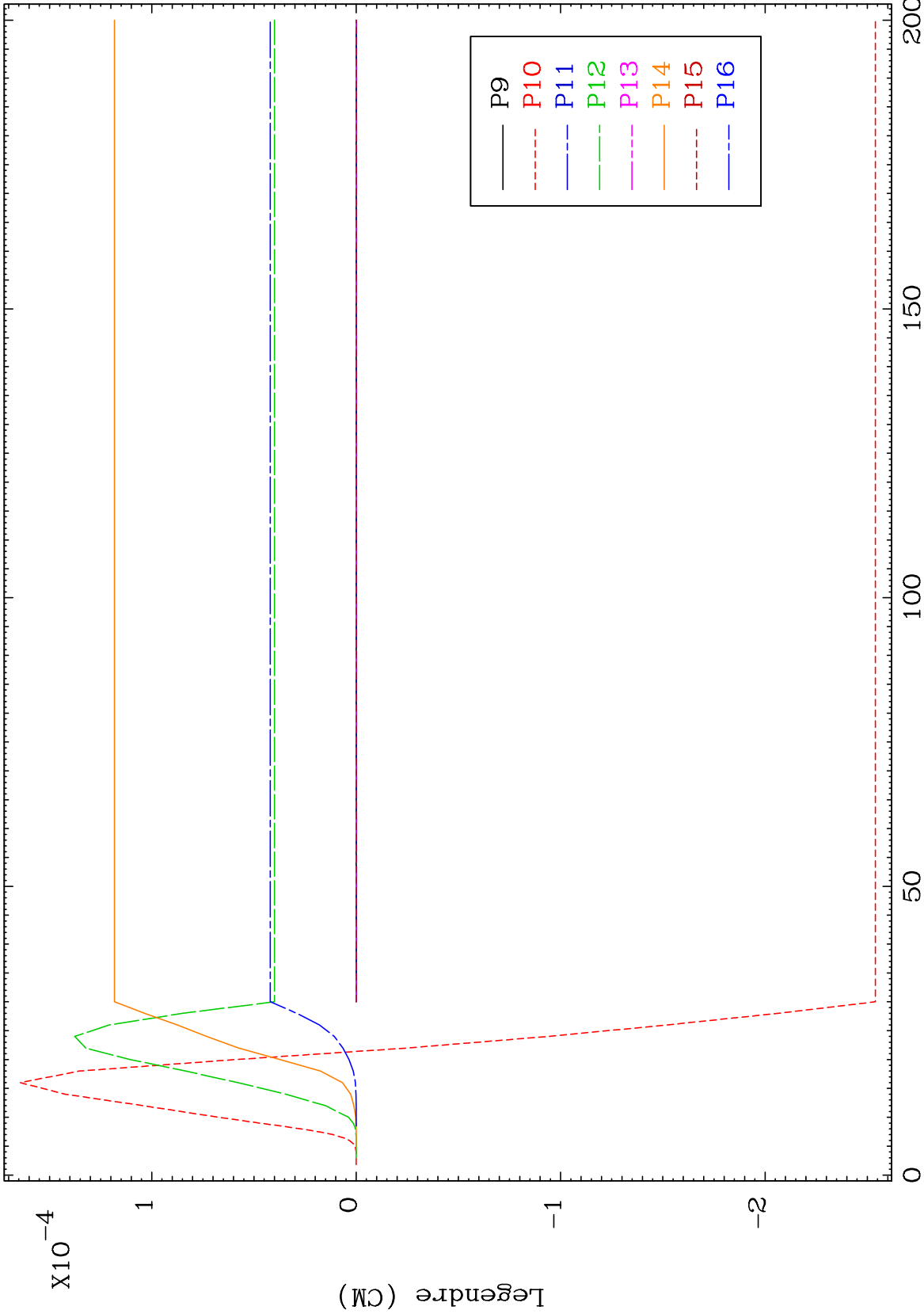
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



43

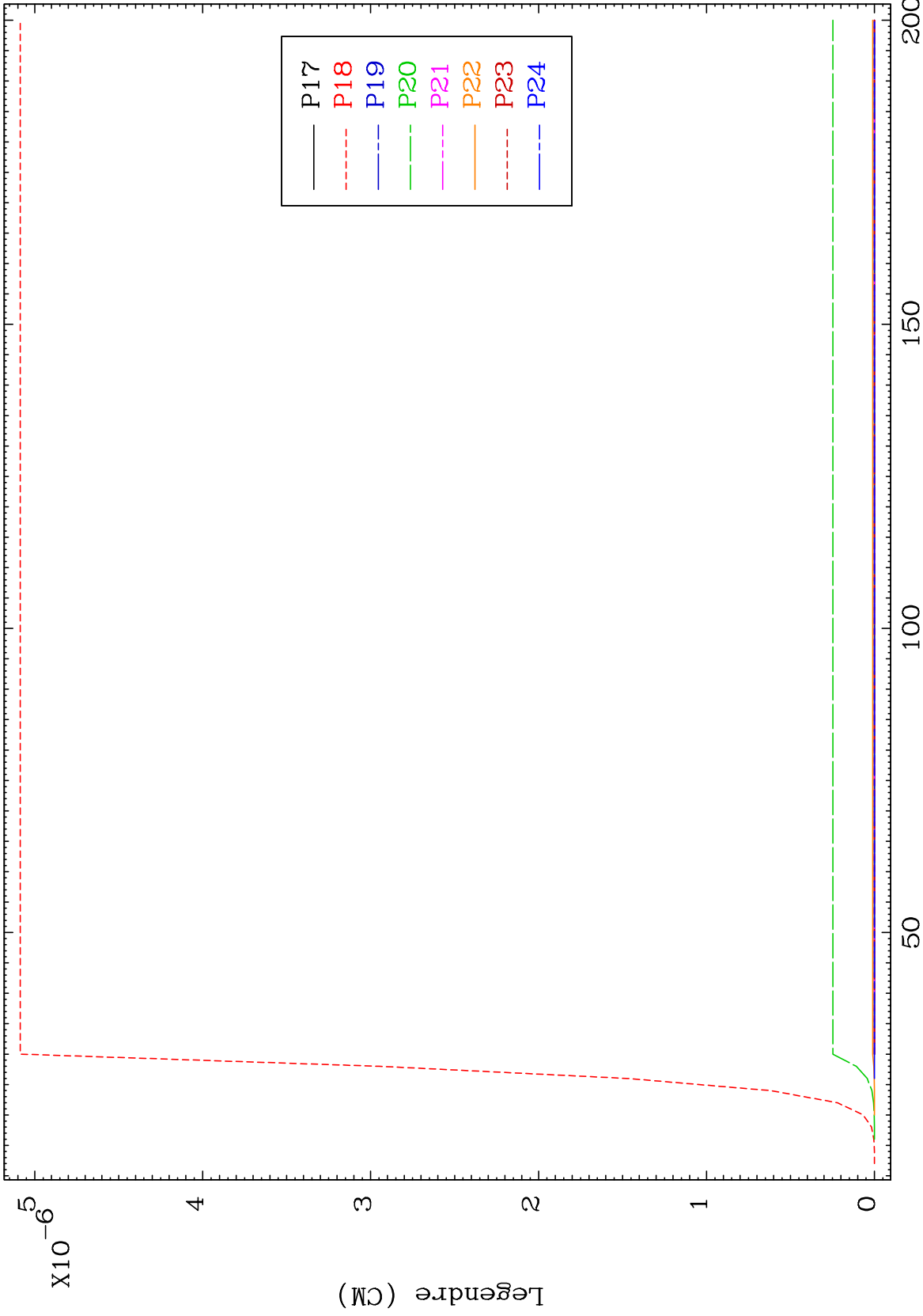
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



44

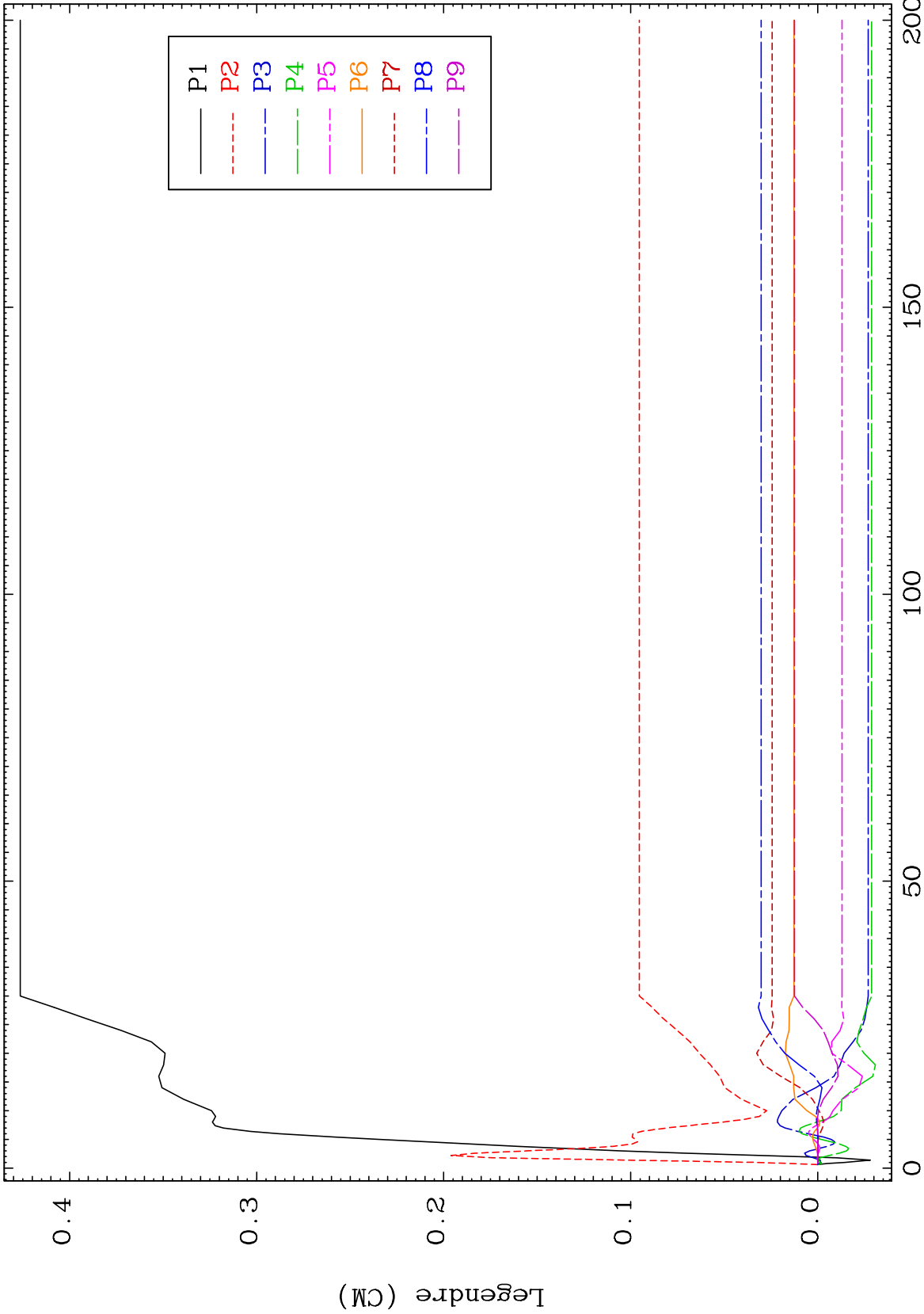
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



45

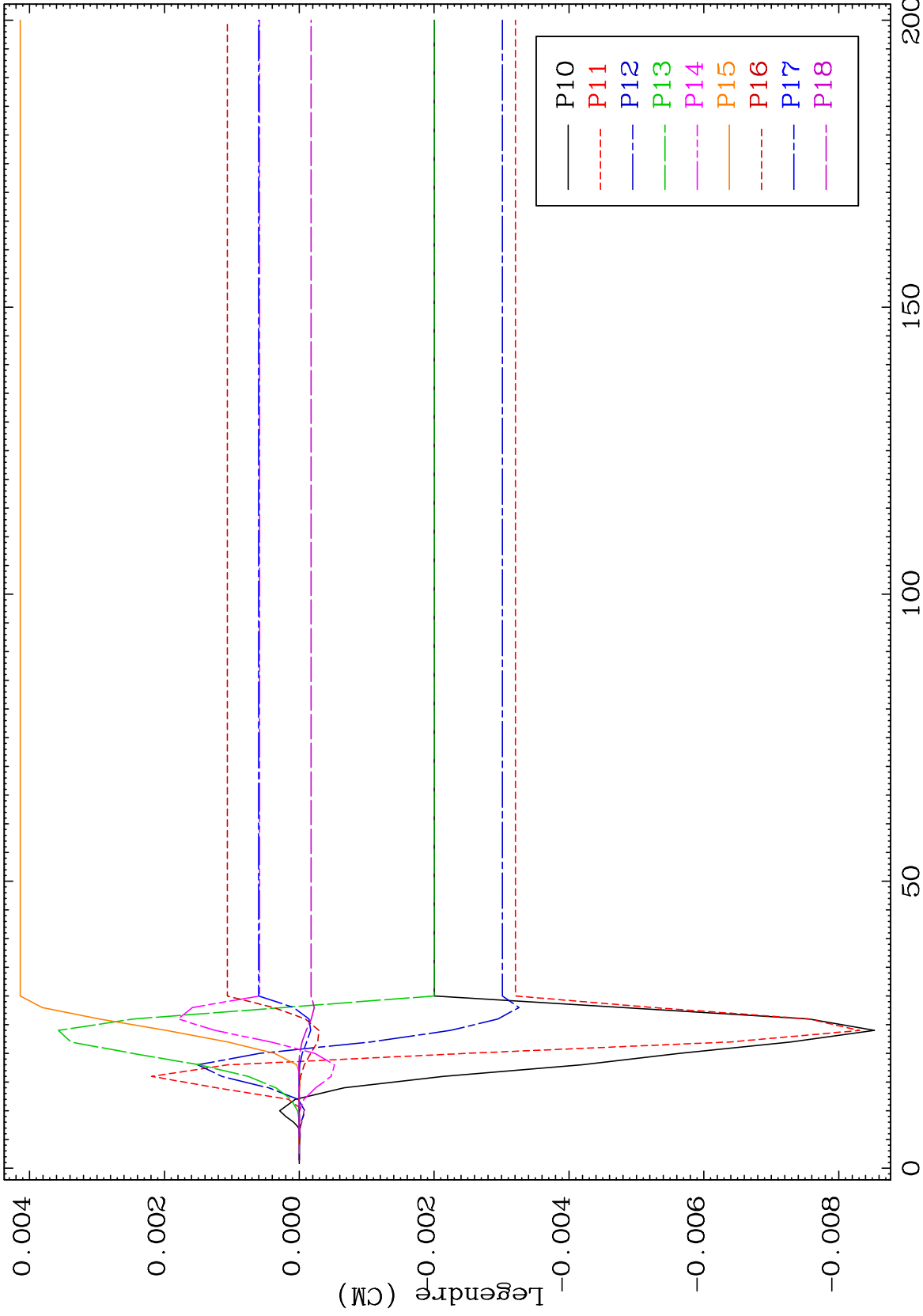
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



46

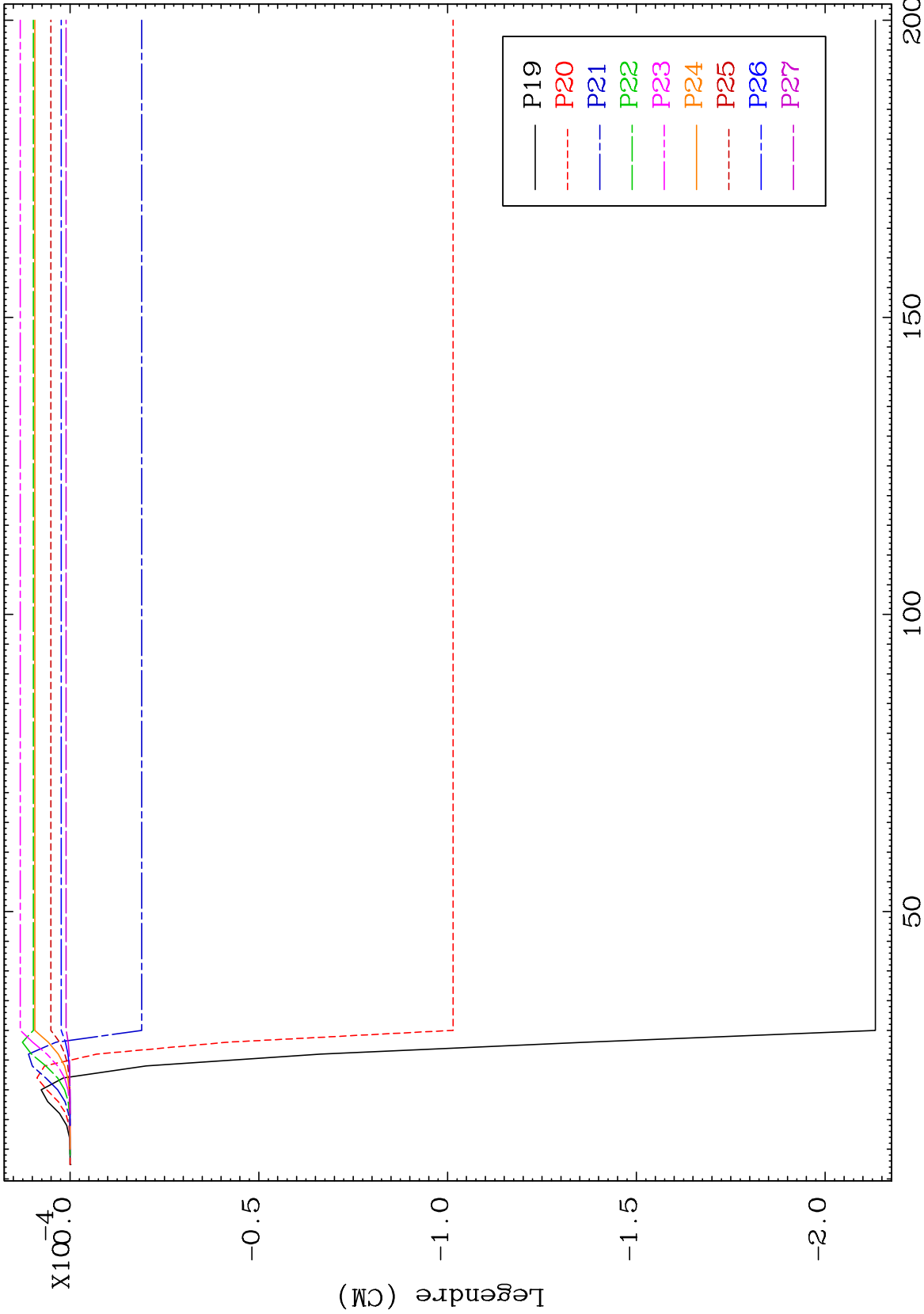
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



47

Incident Energy (MeV)

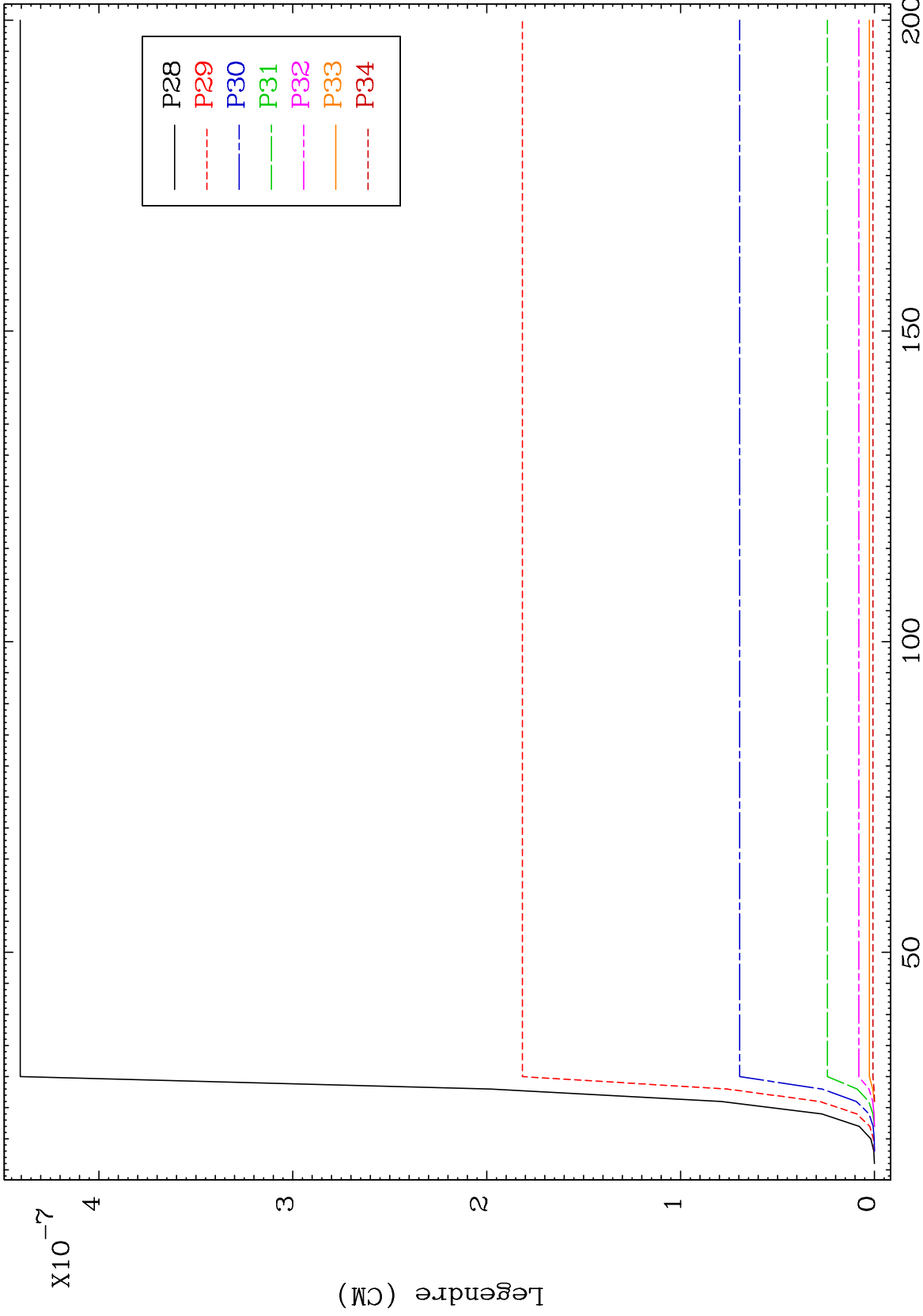
59-Pr-124



MAT 5874

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

59-Pr-124



48

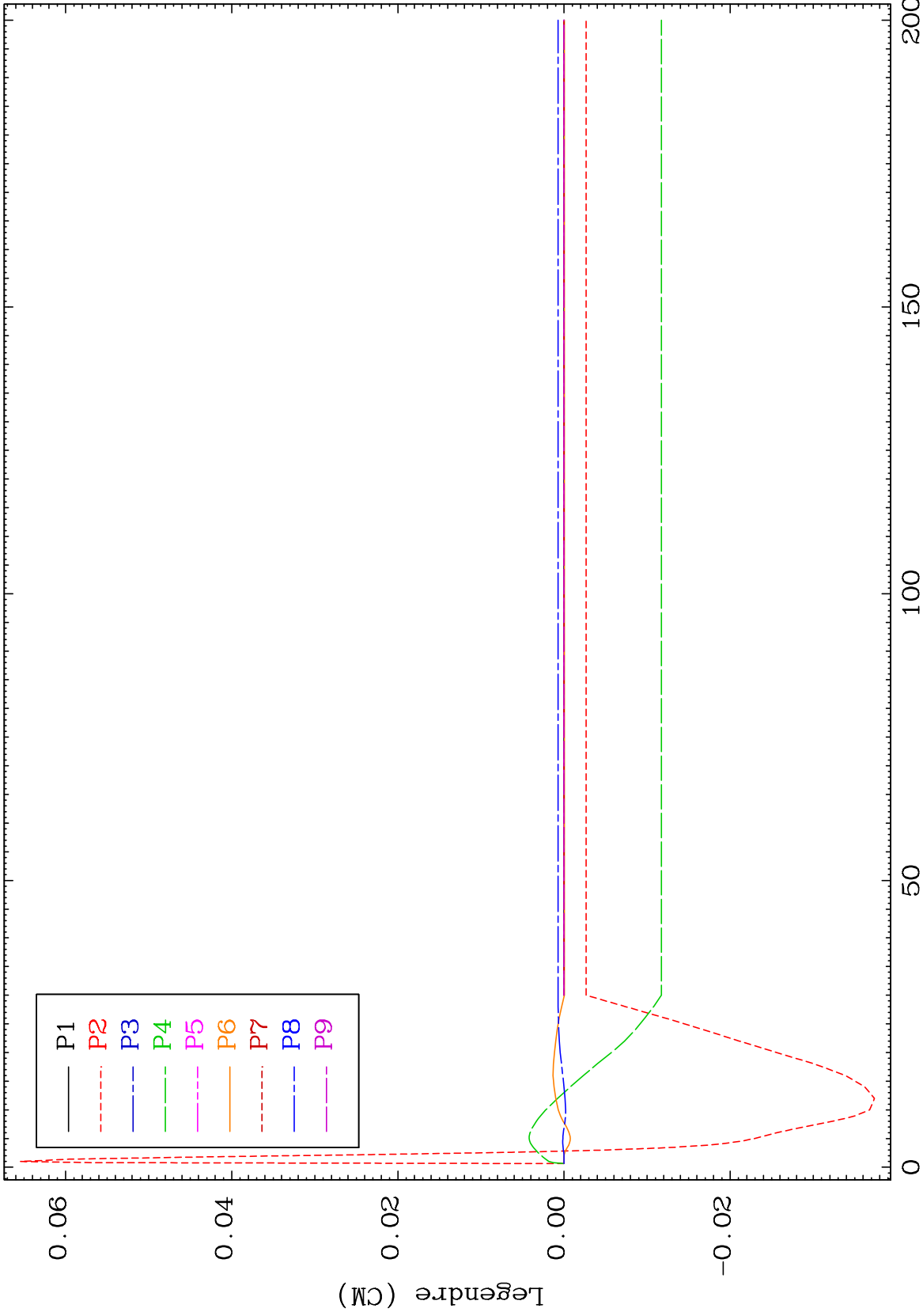
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



49

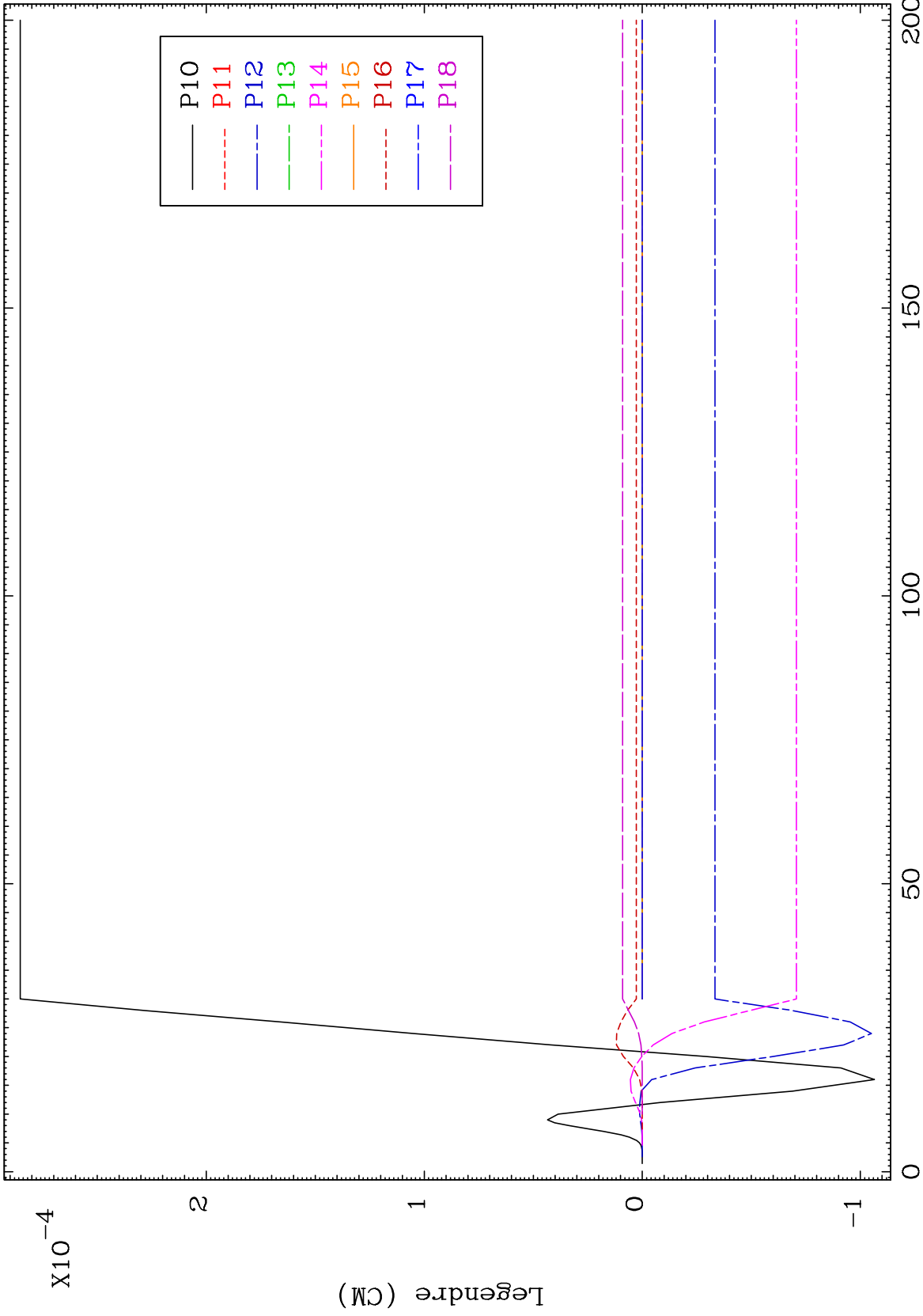
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



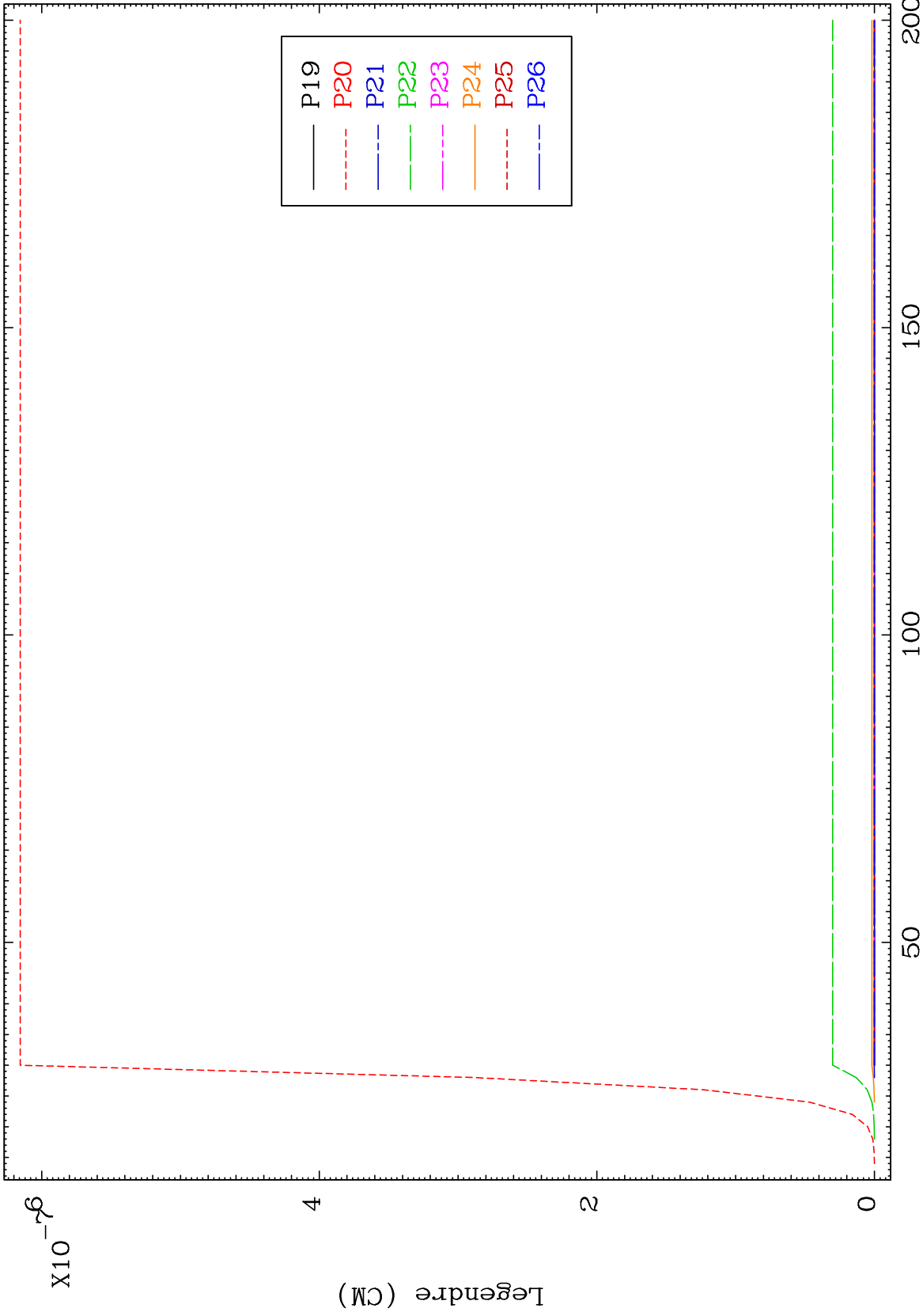
59-Pr-124

Incident Energy (MeV)

MAT 5874

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

59-Pr-124



51

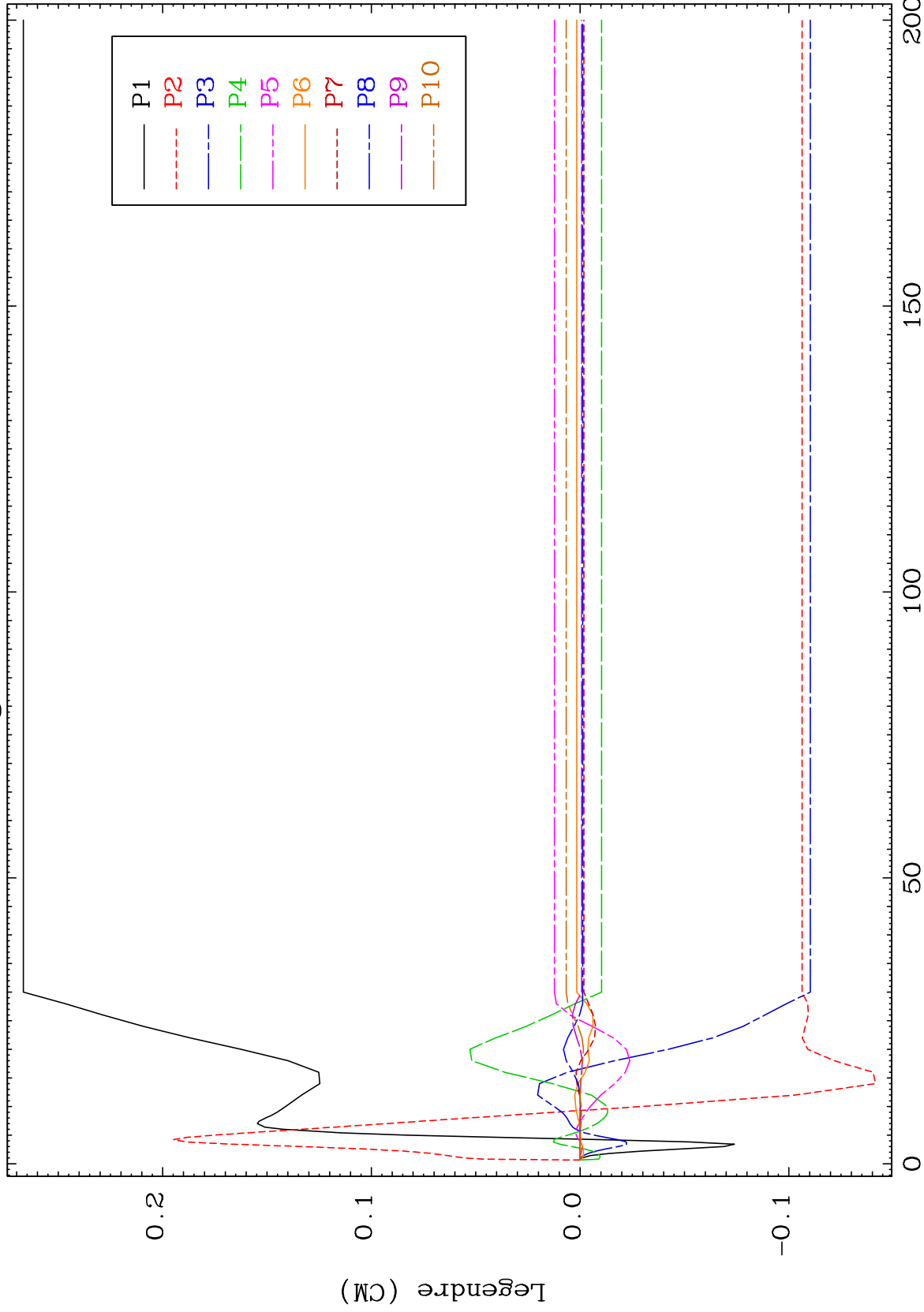
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



52

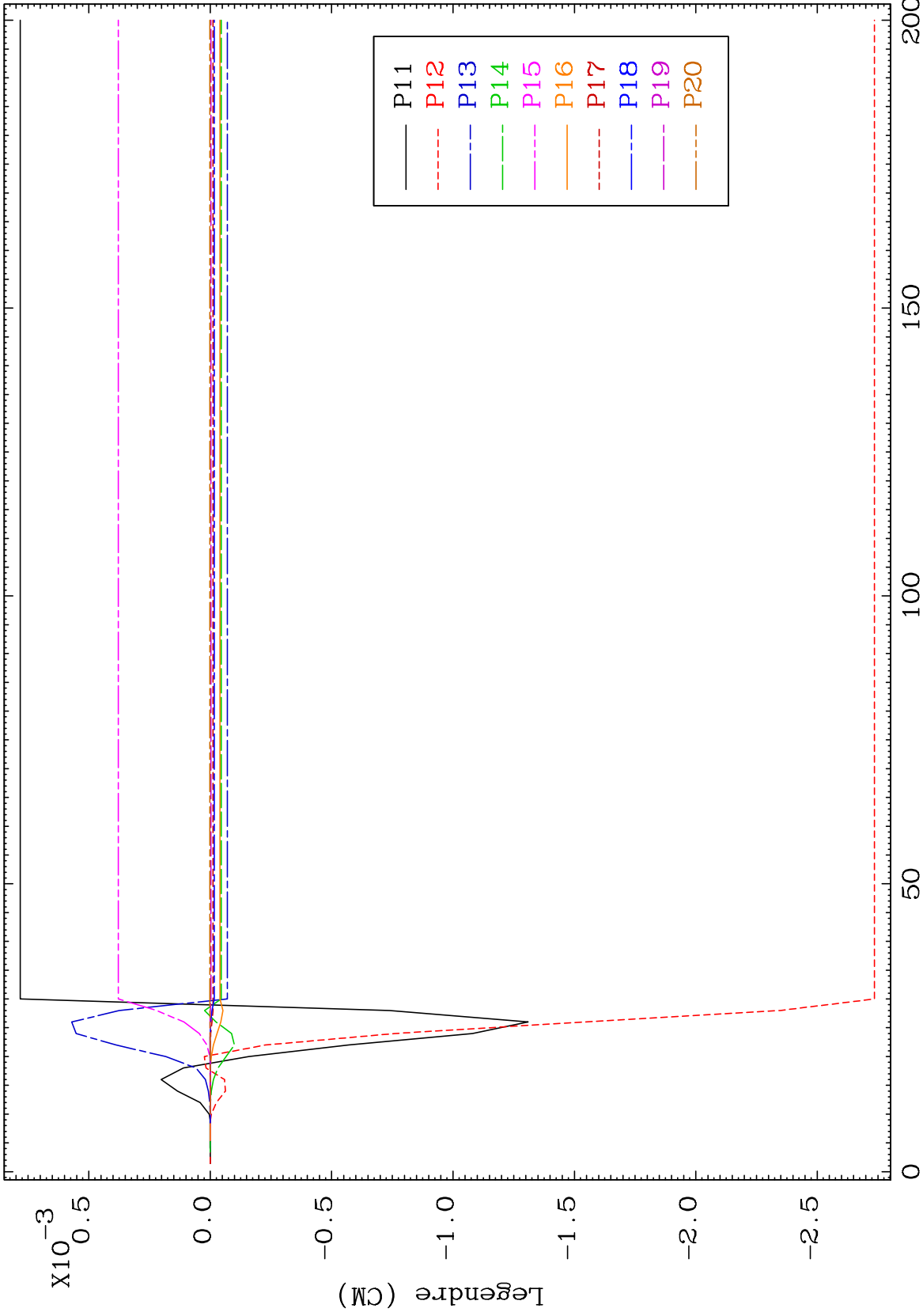
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



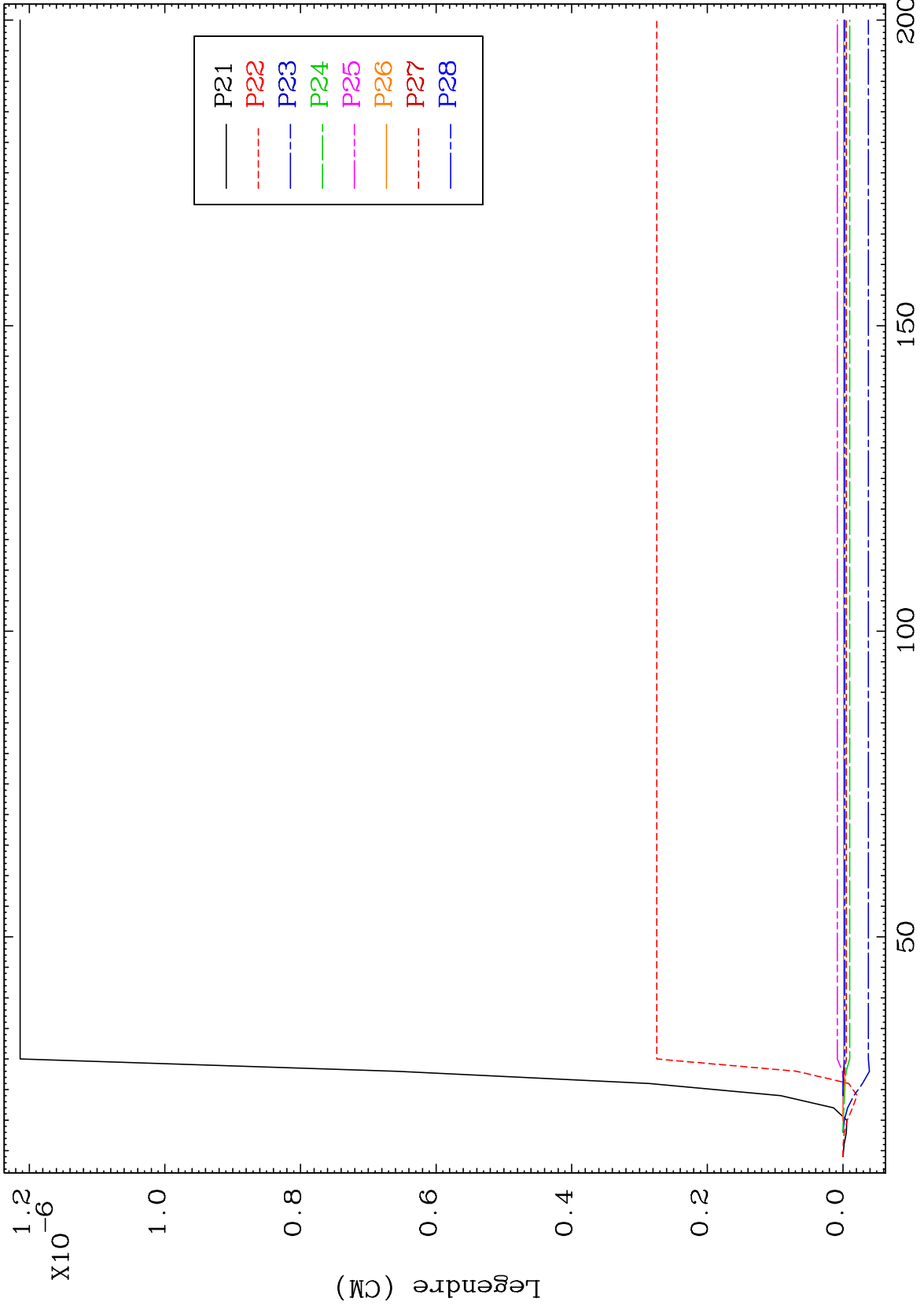
53

59-Pr-124

MAT 5874

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

59-Pr-124



54

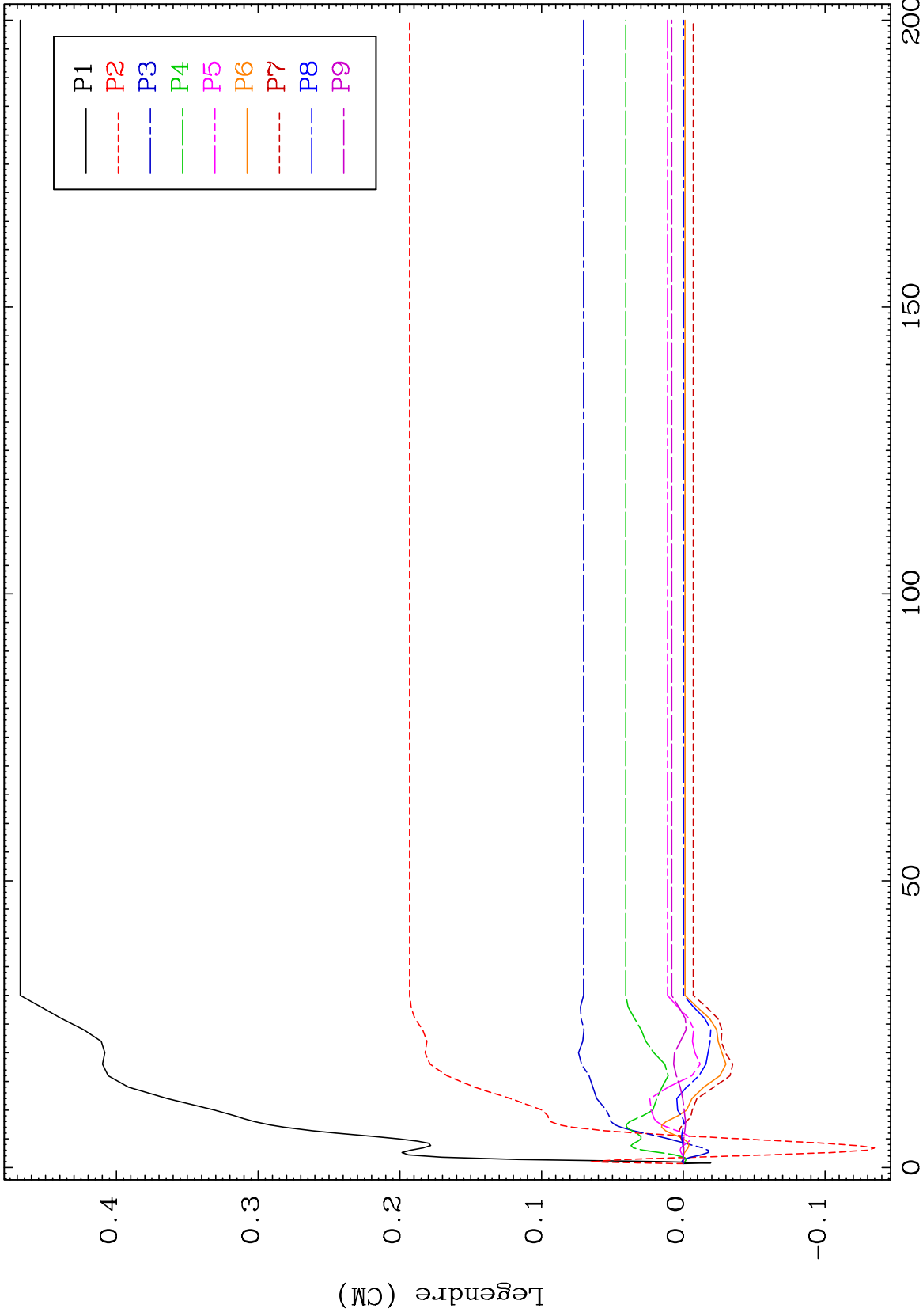
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



55

Incident Energy (MeV)

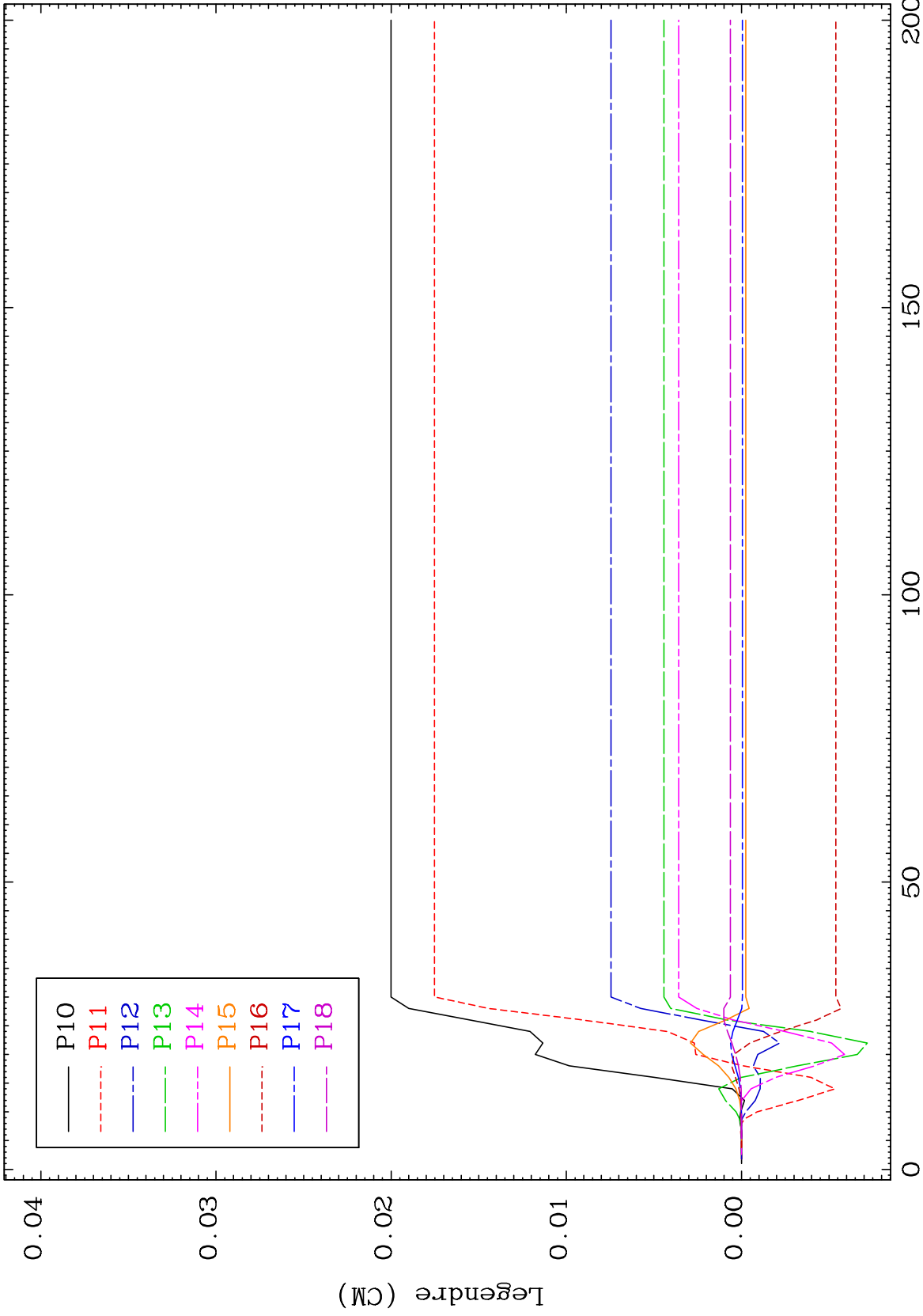
59-Pr-124



MAT 5874

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

59-Pr-124



56

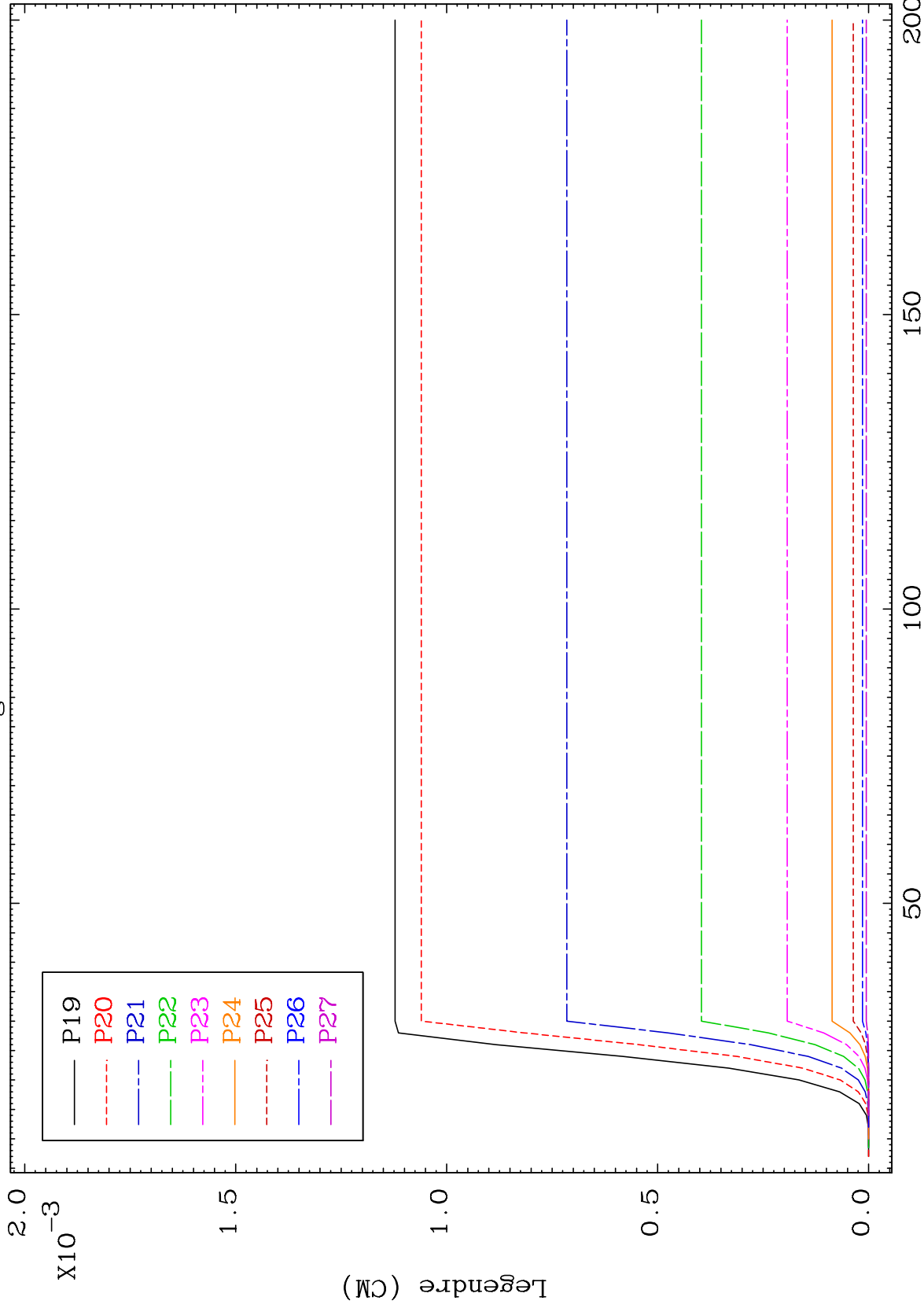
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



57

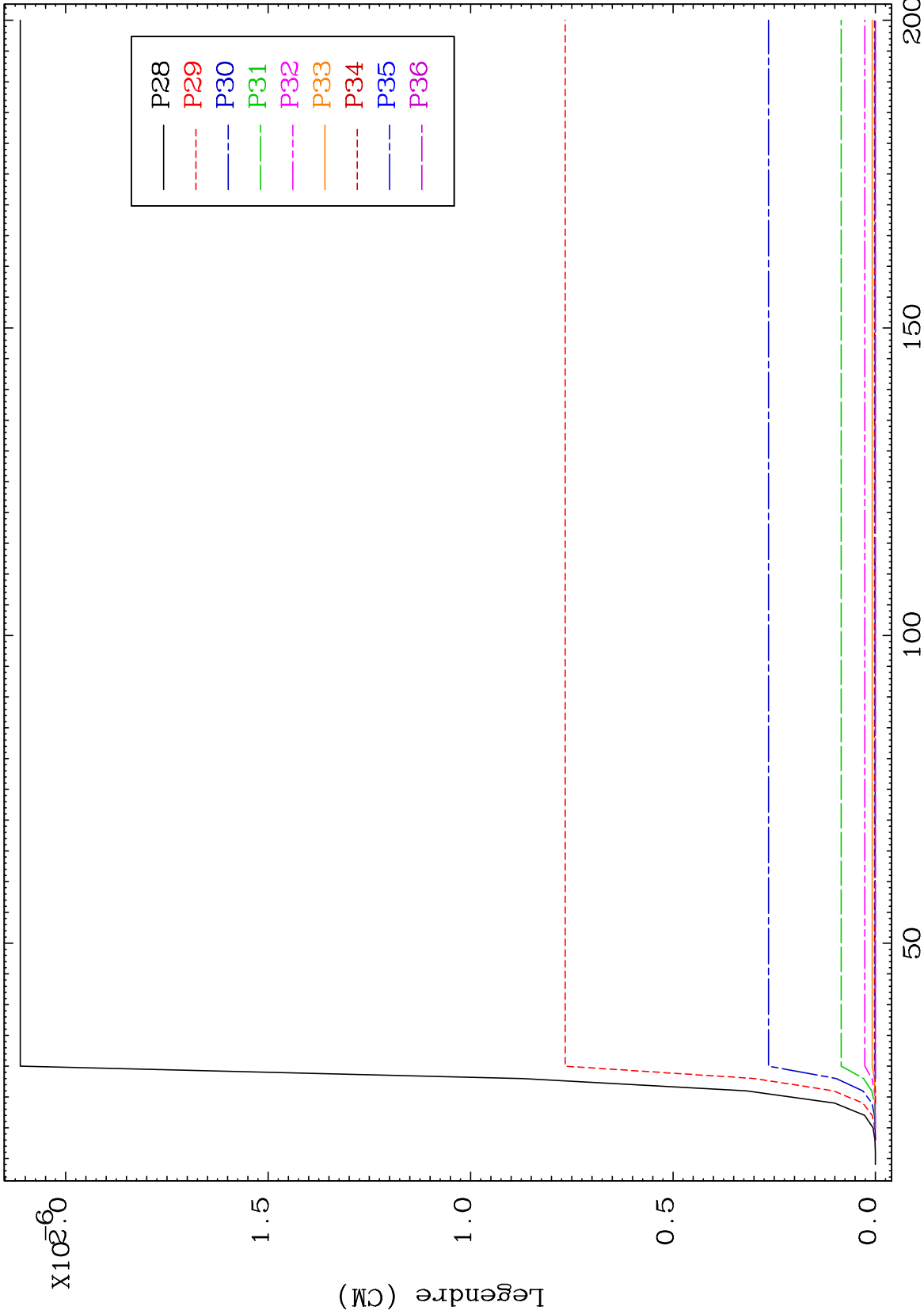
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



58

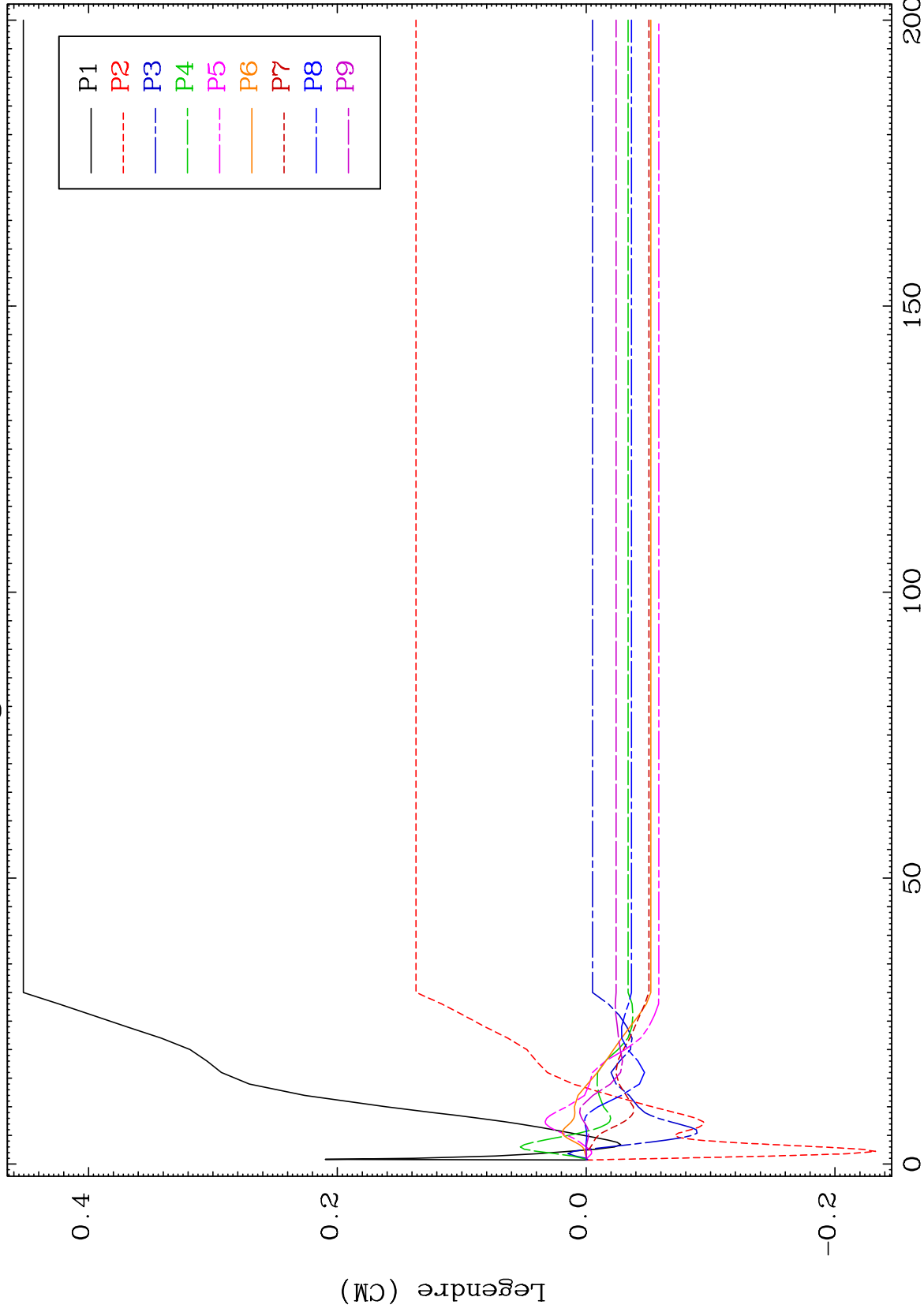
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



59

Incident Energy (MeV)

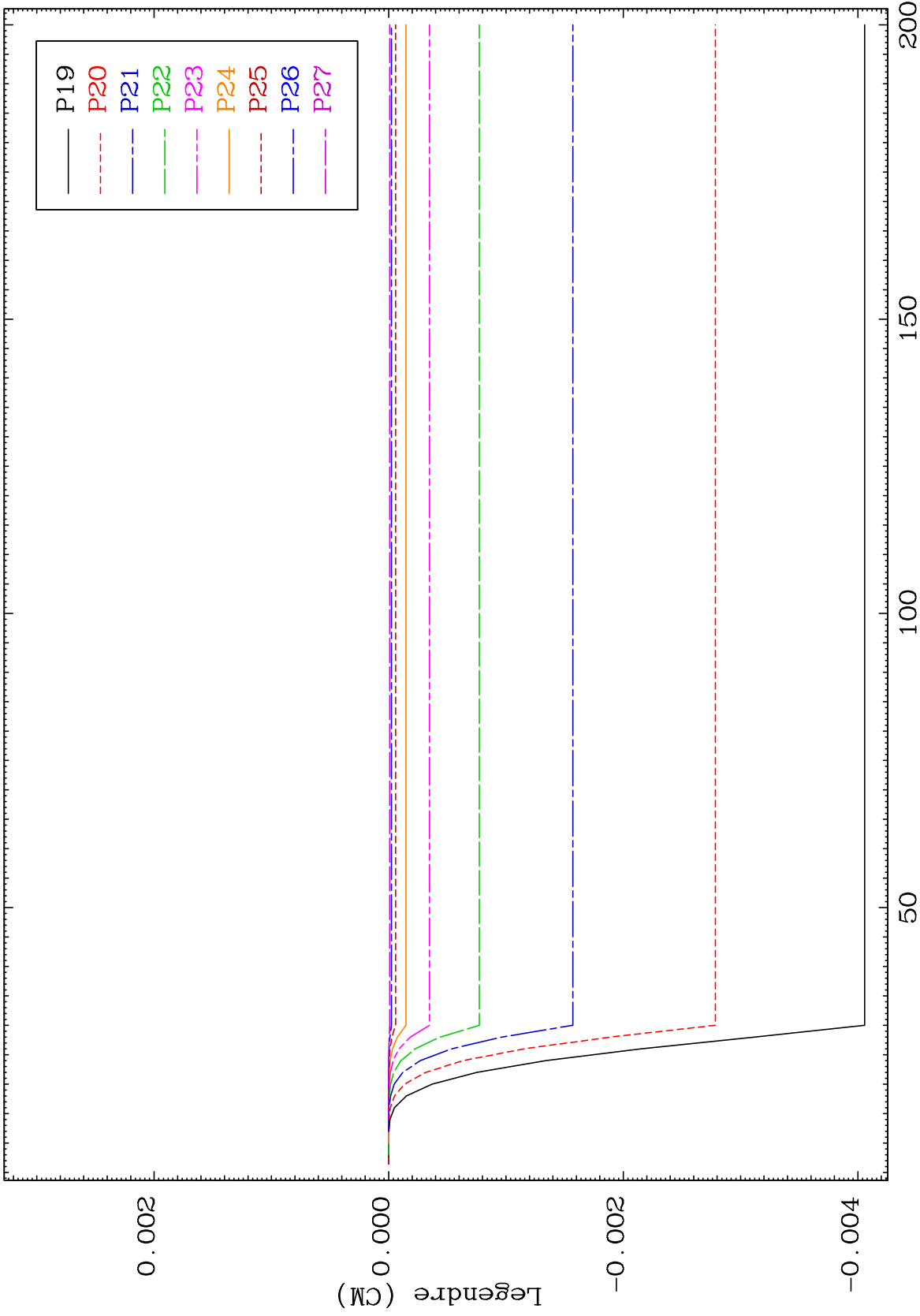
59-Pr-124



MAT 5874

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

59-Pr-124



61

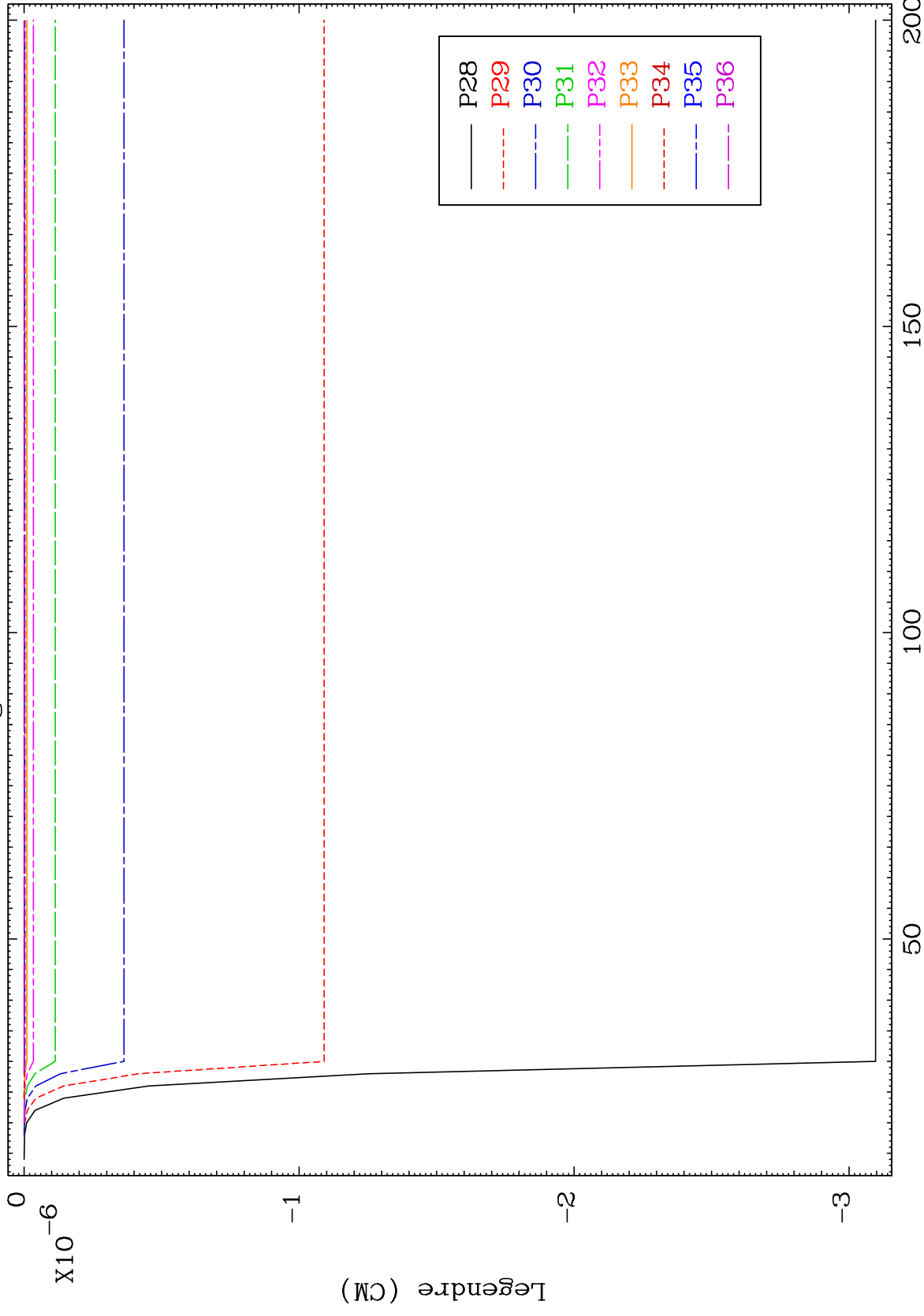
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



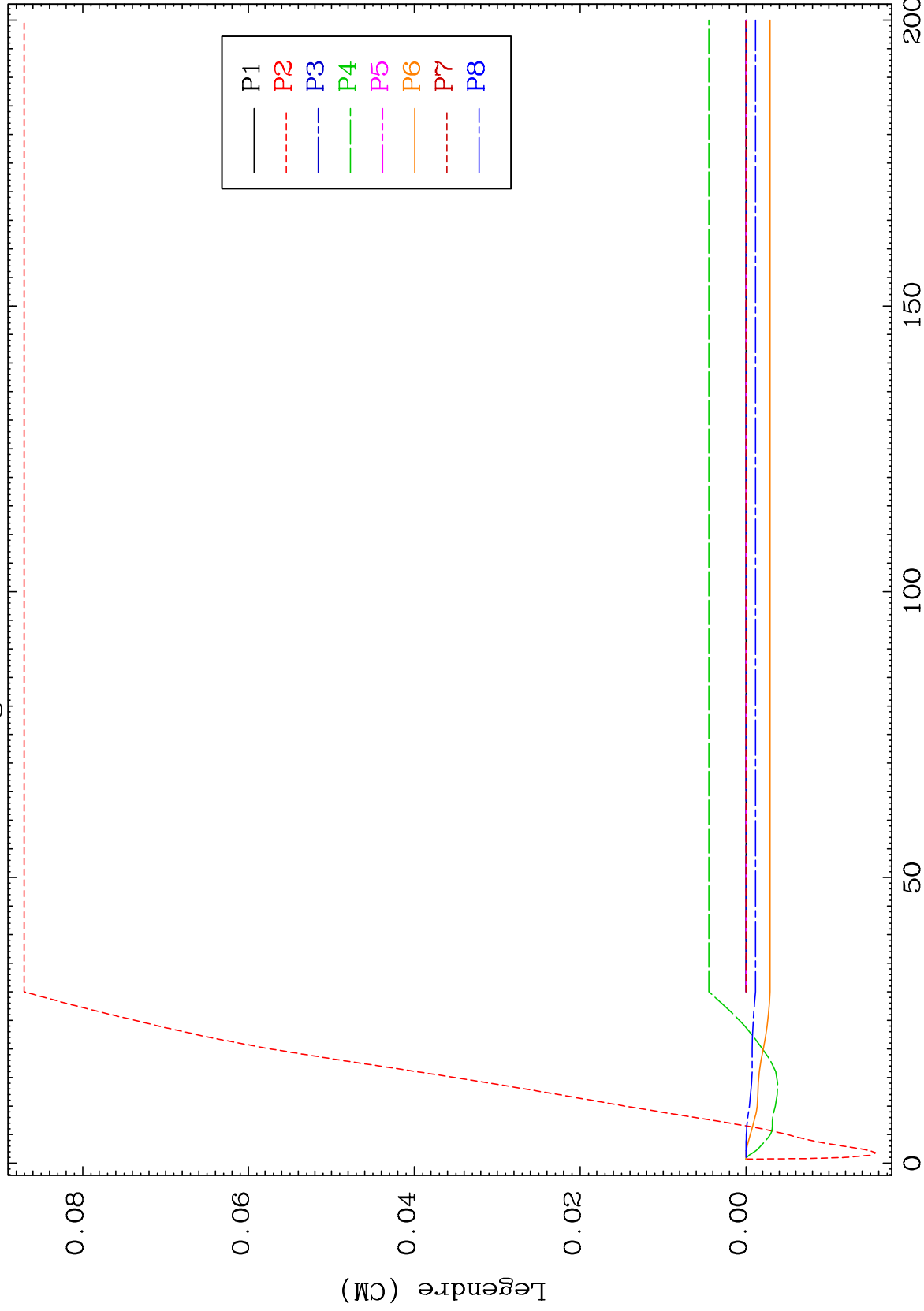
62

59-Pr-124

MAT 5874

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

59-Pr-124



63

Incident Energy (MeV)

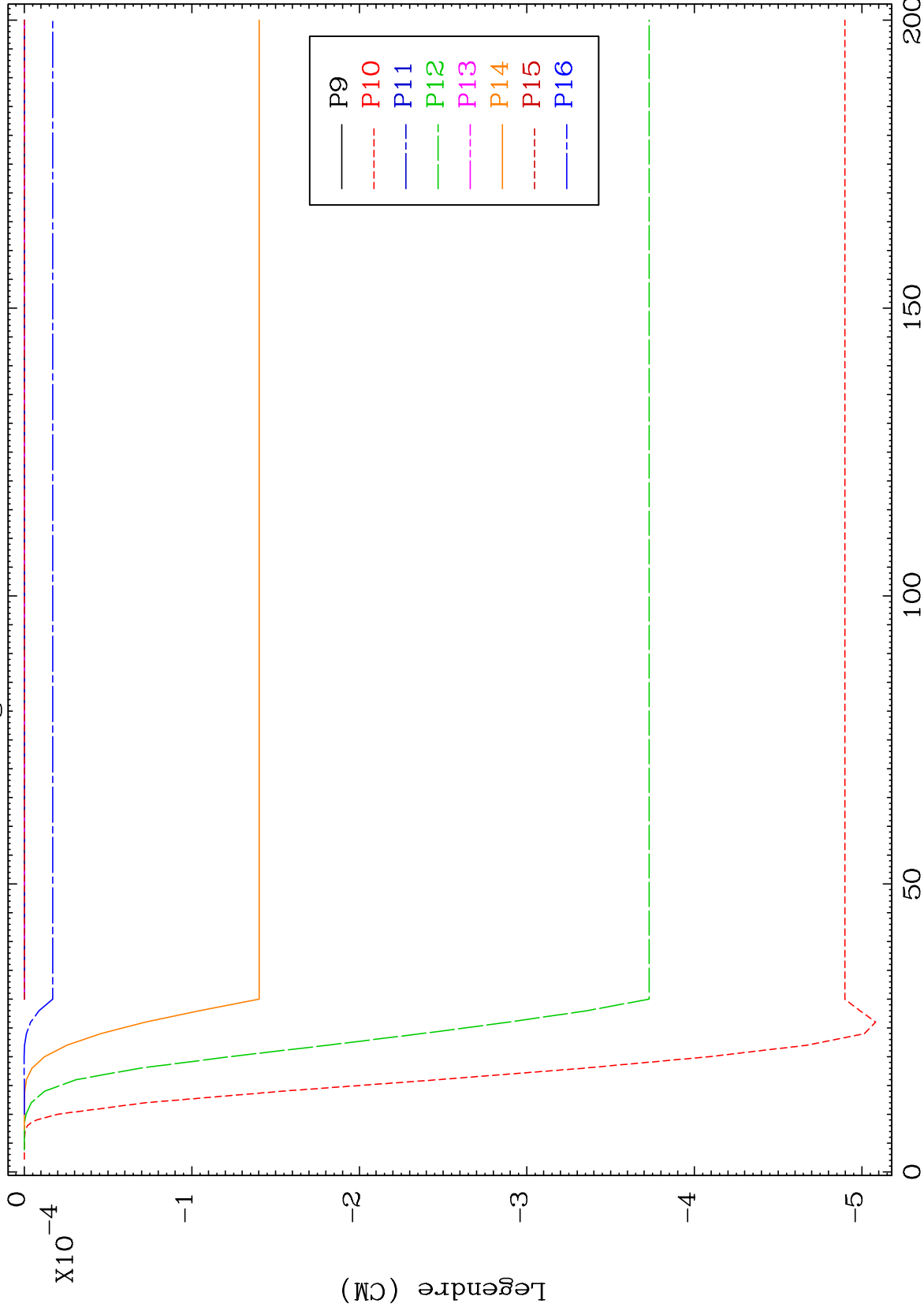
59-Pr-124



MAT 5874

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

59-Pr-124



64

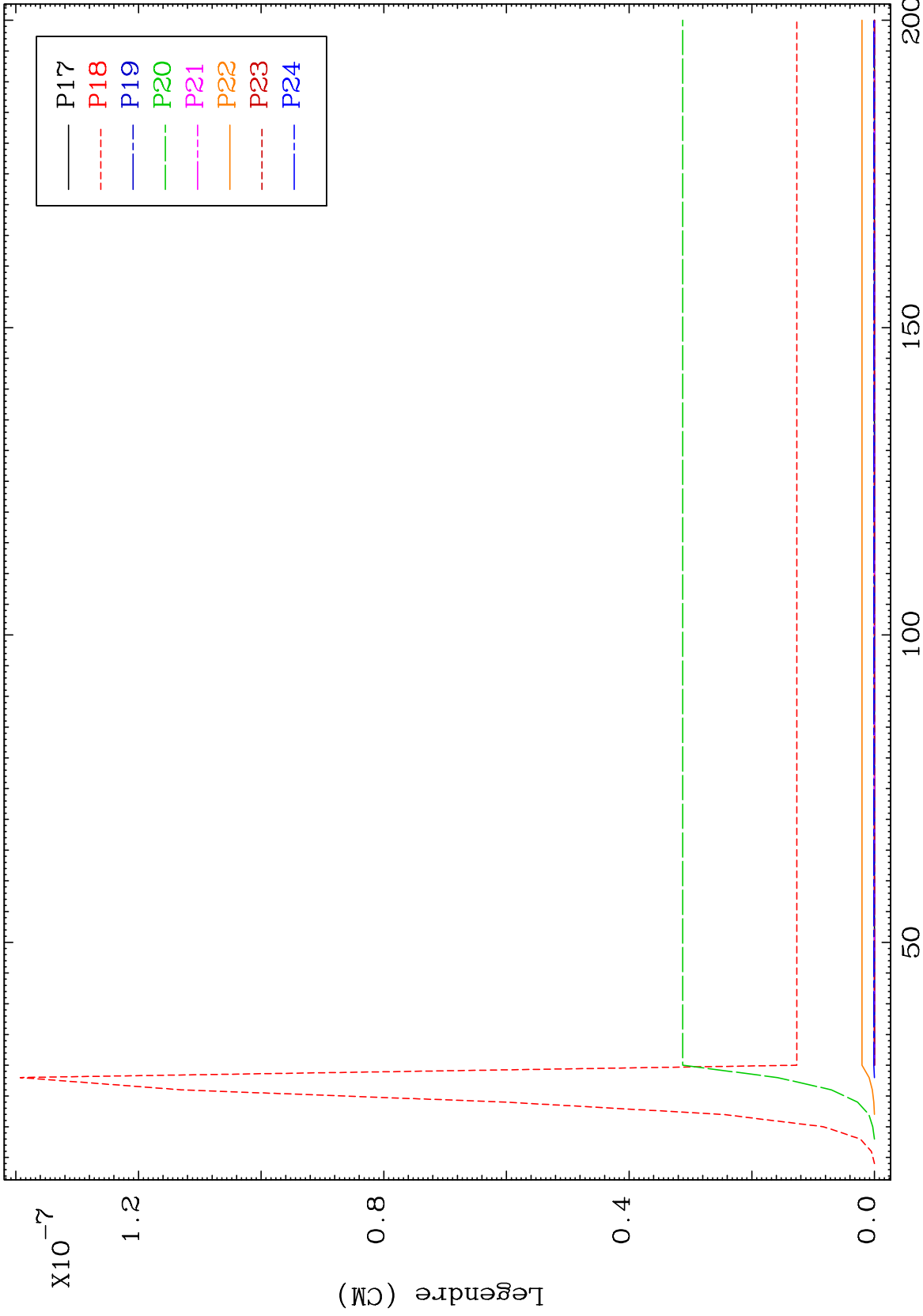
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



65

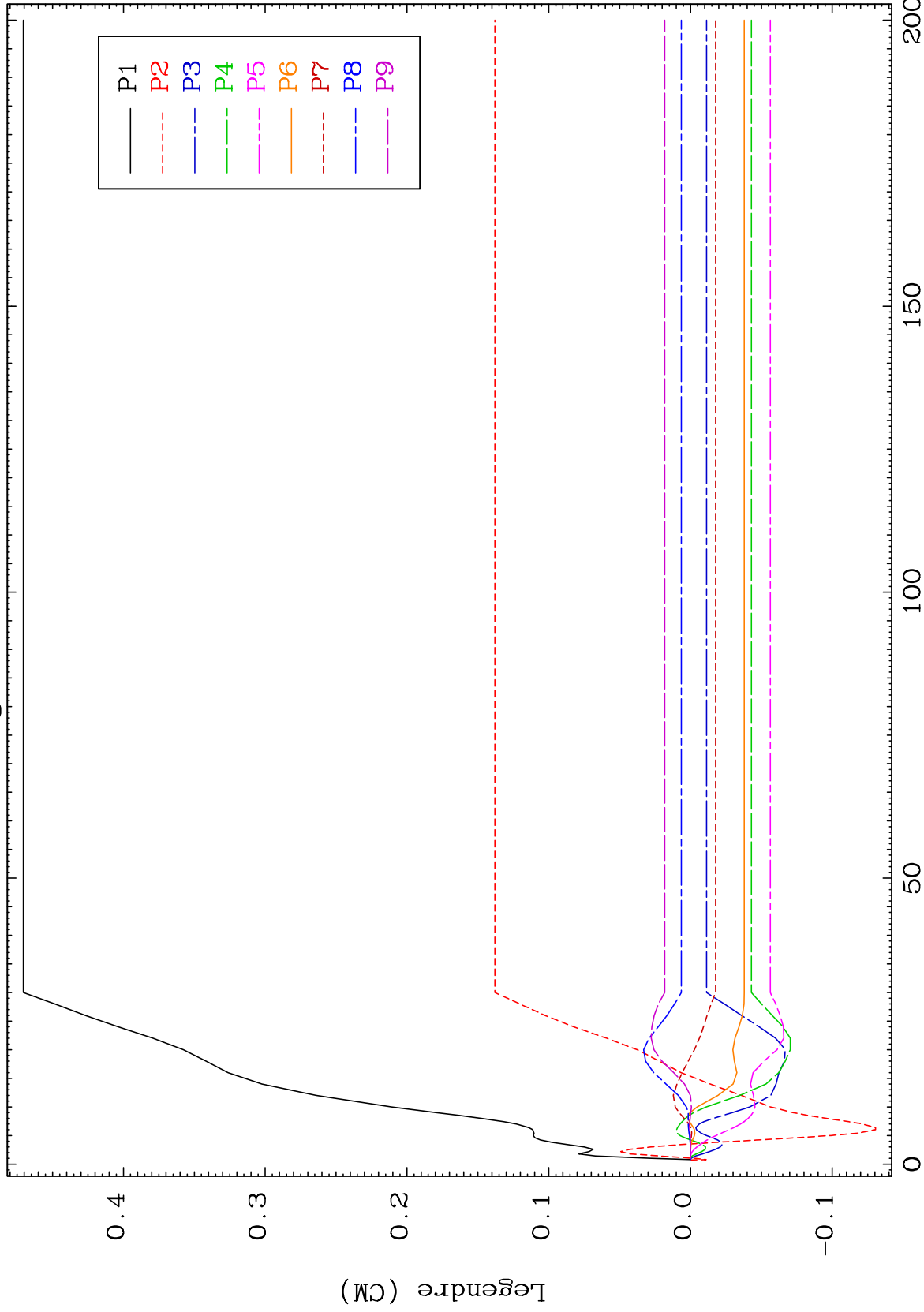
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



66

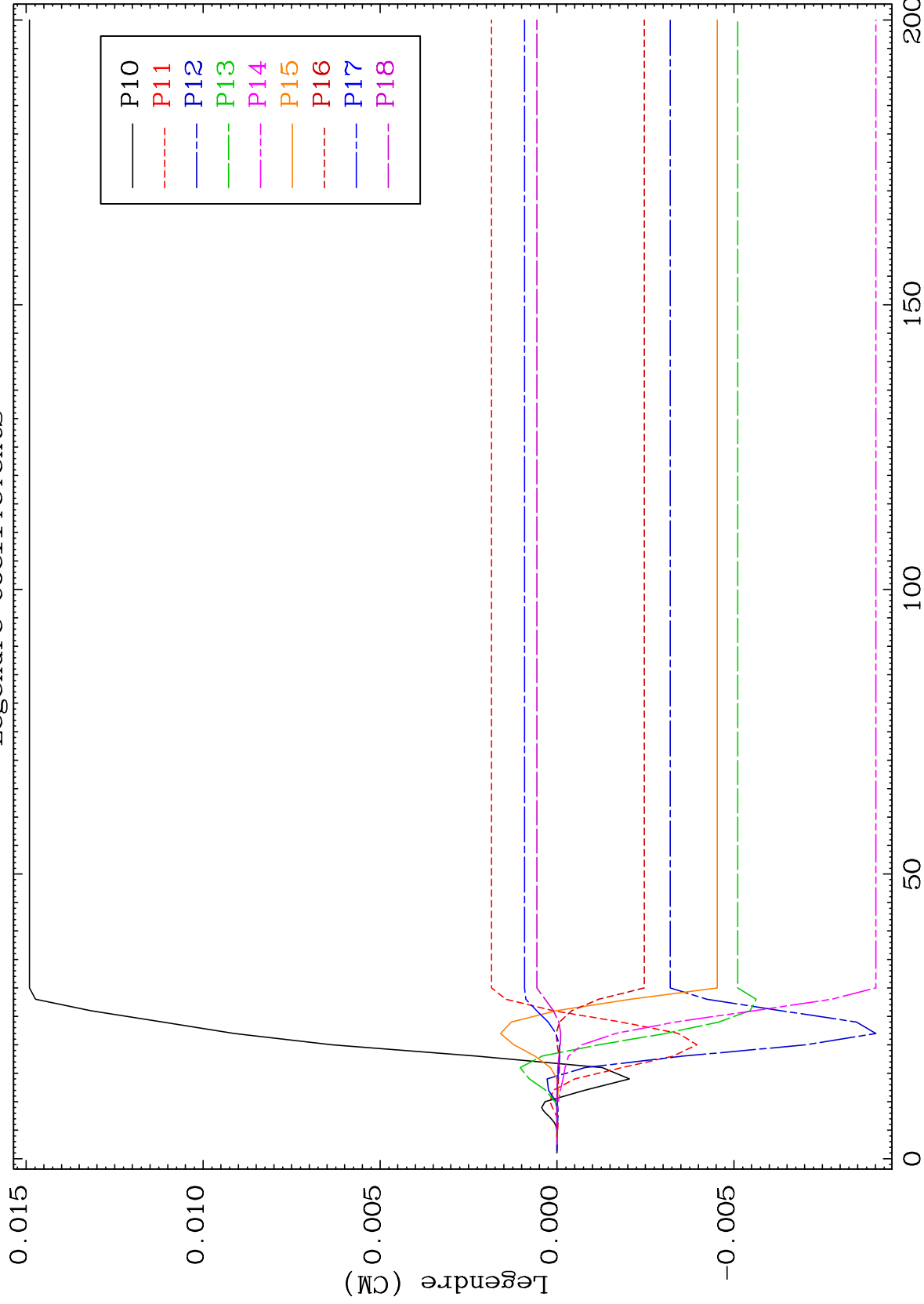
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



67

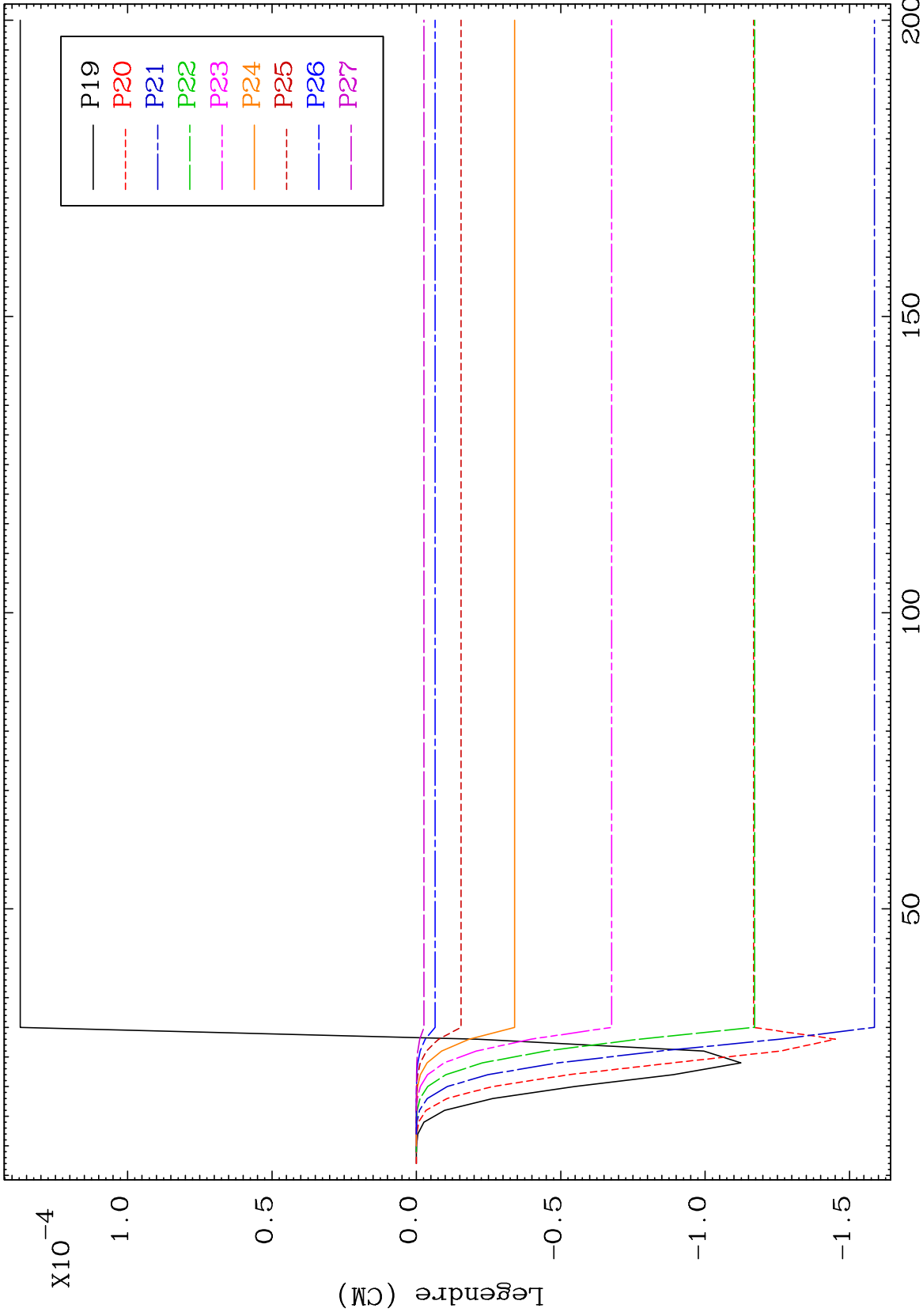
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



68

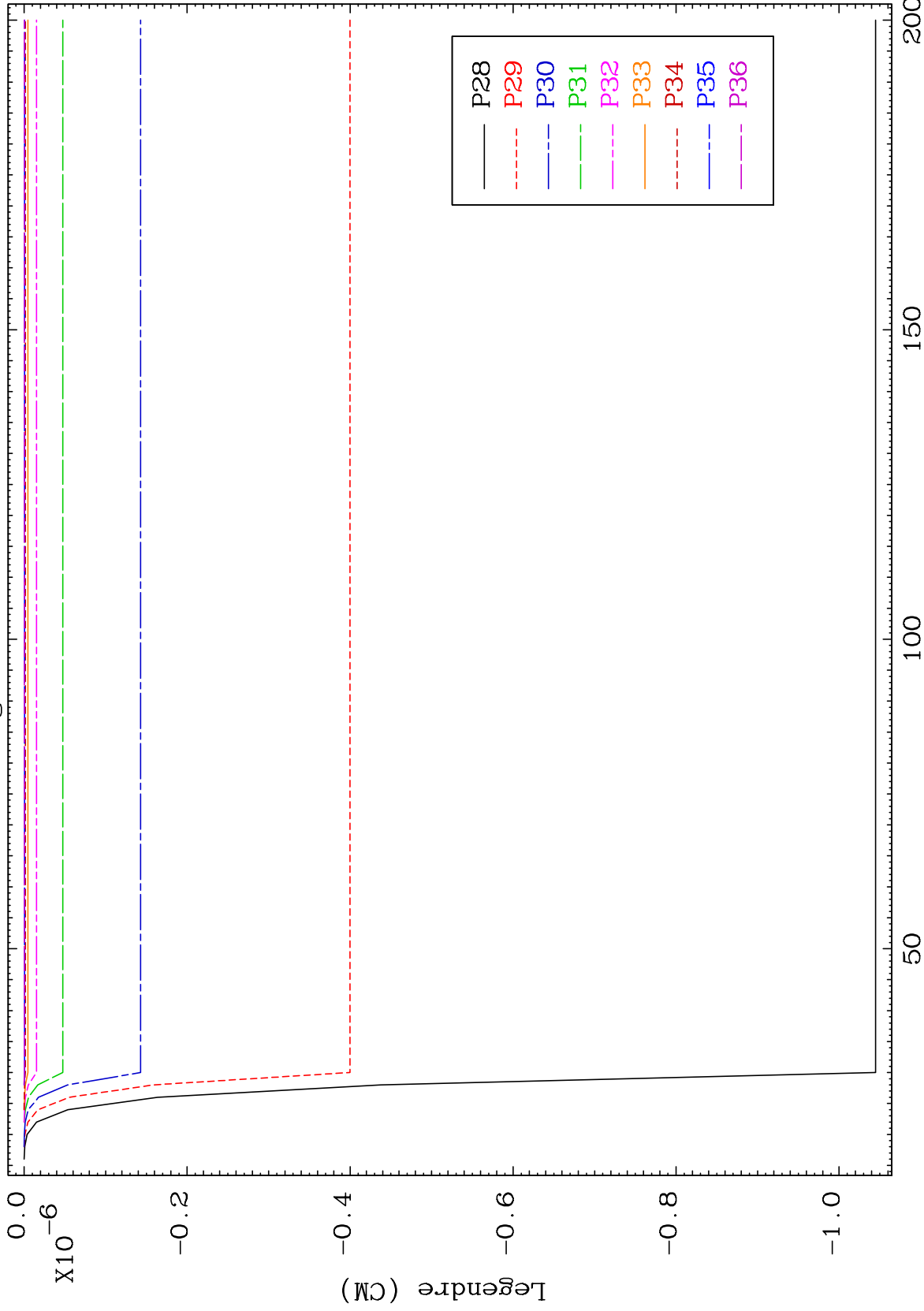
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



69

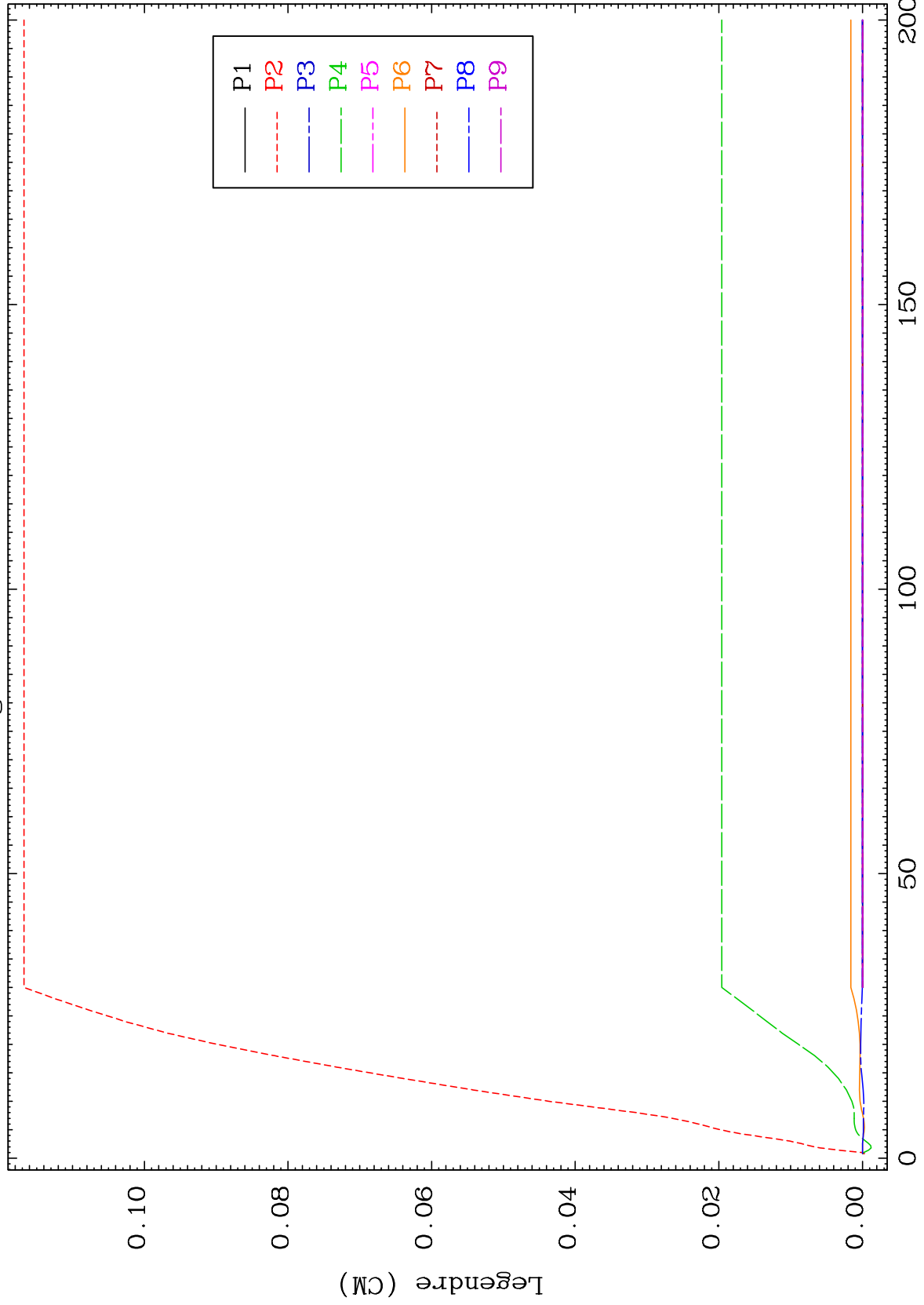
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



70

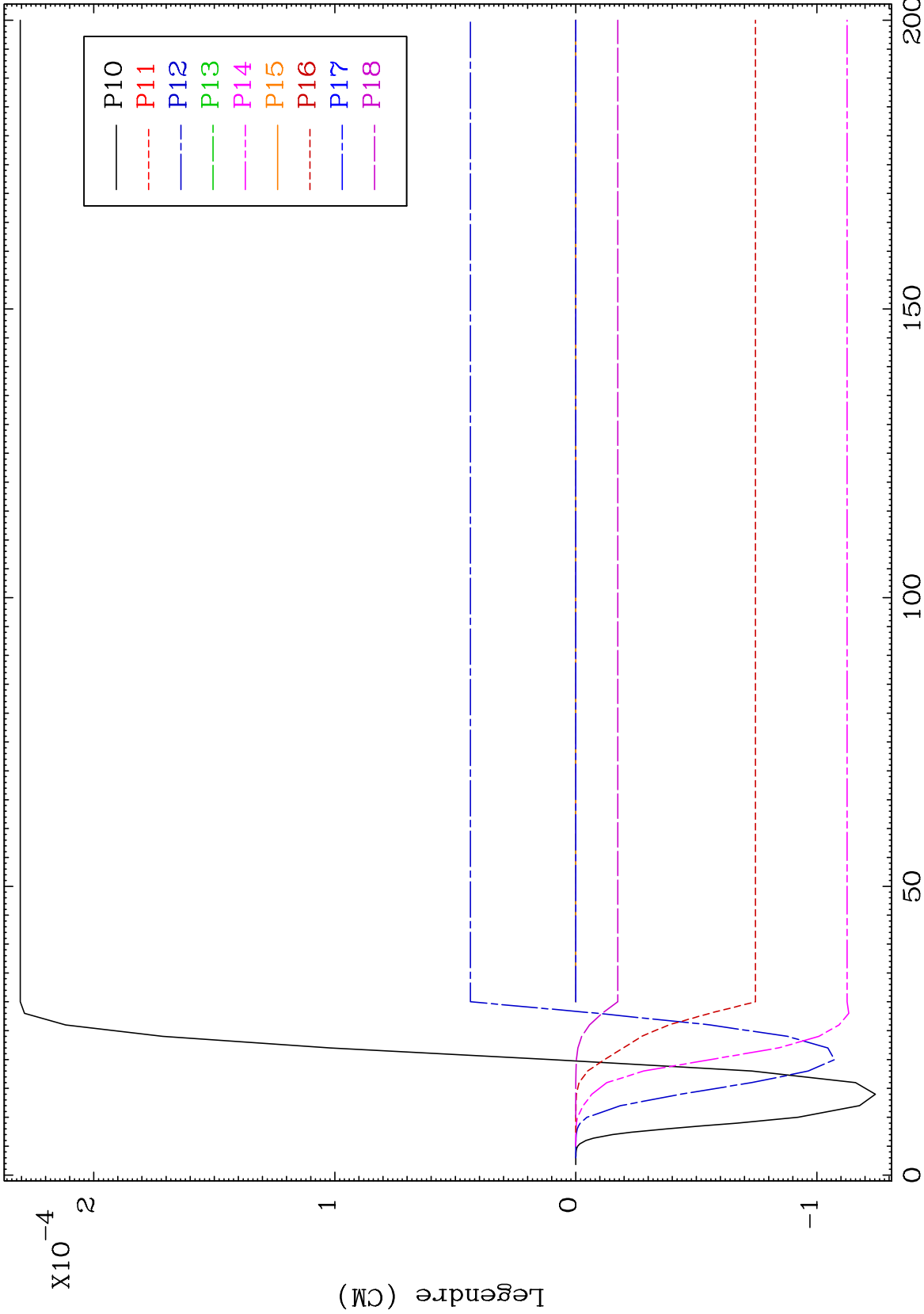
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



71

Incident Energy (MeV)

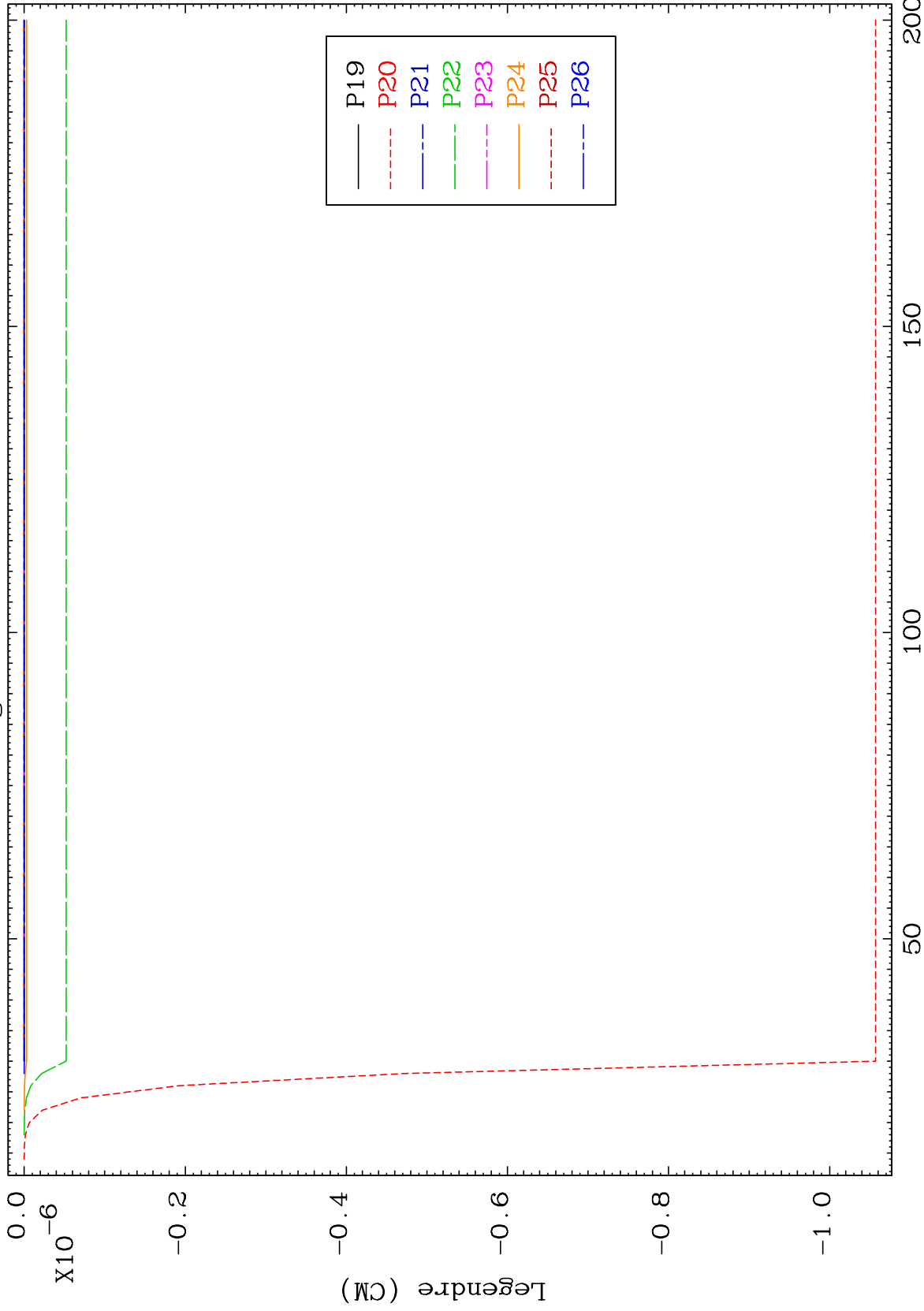
59-Pr-124



MAT 5874

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

59-Pr-124



72

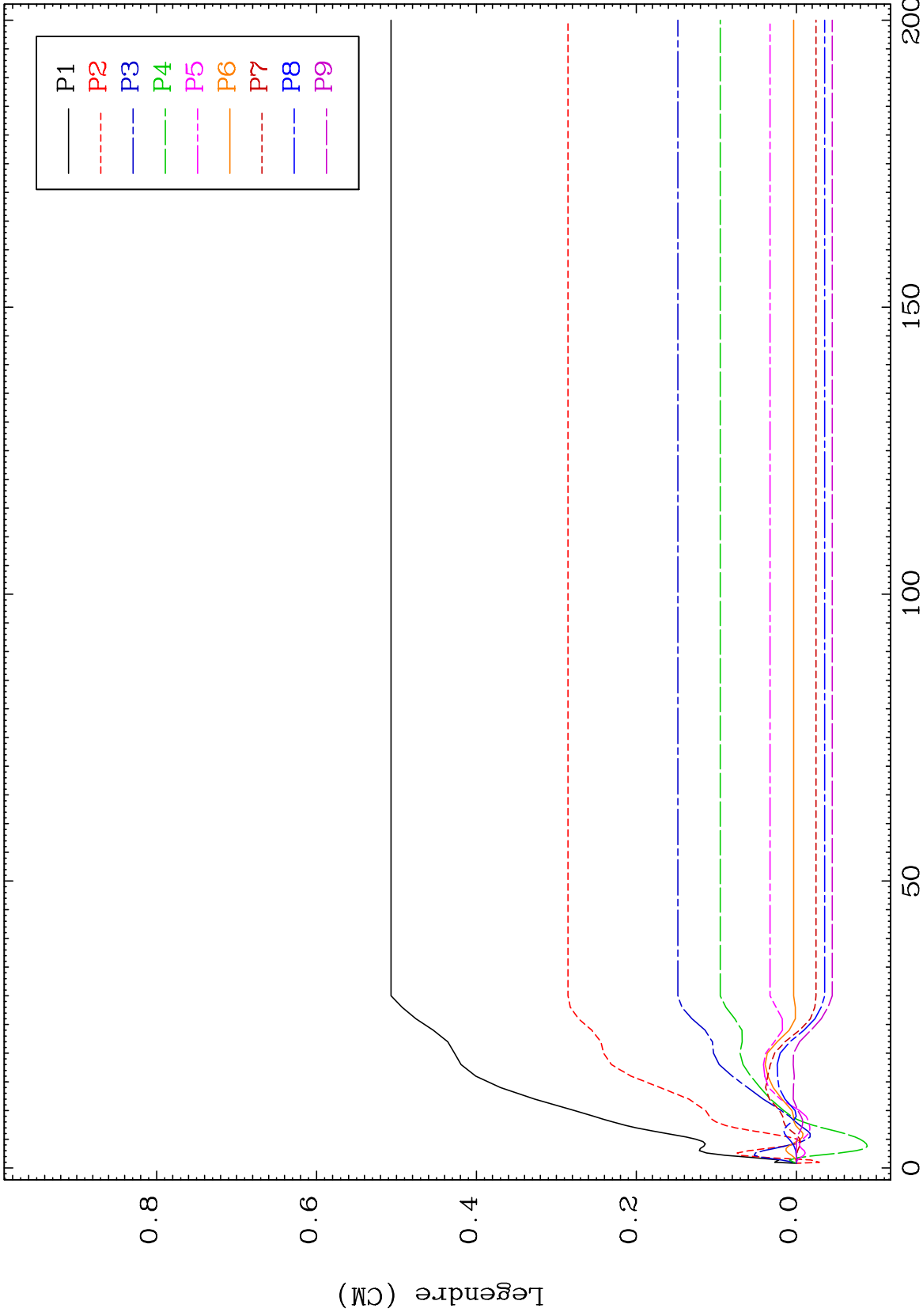
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



73

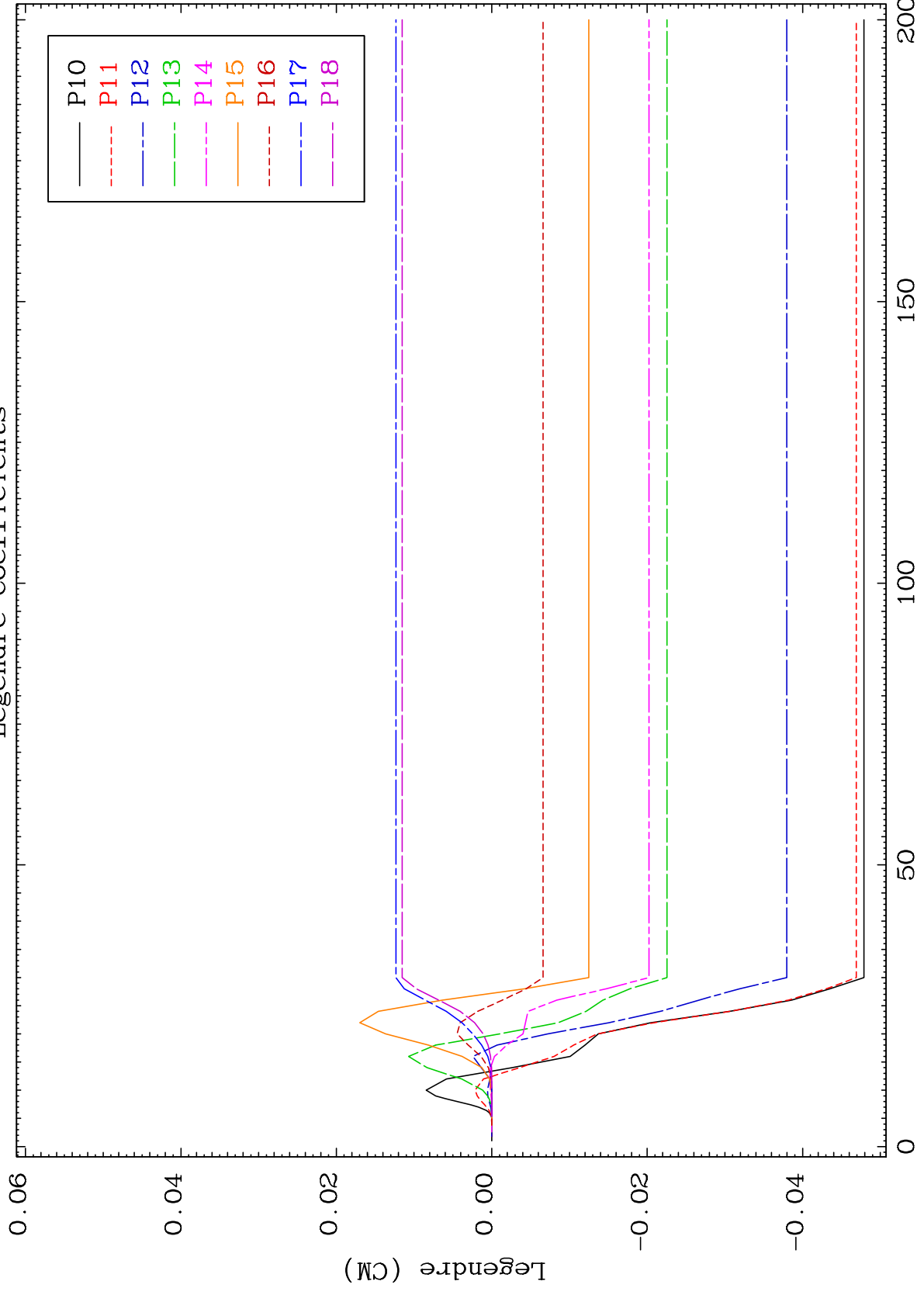
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



74

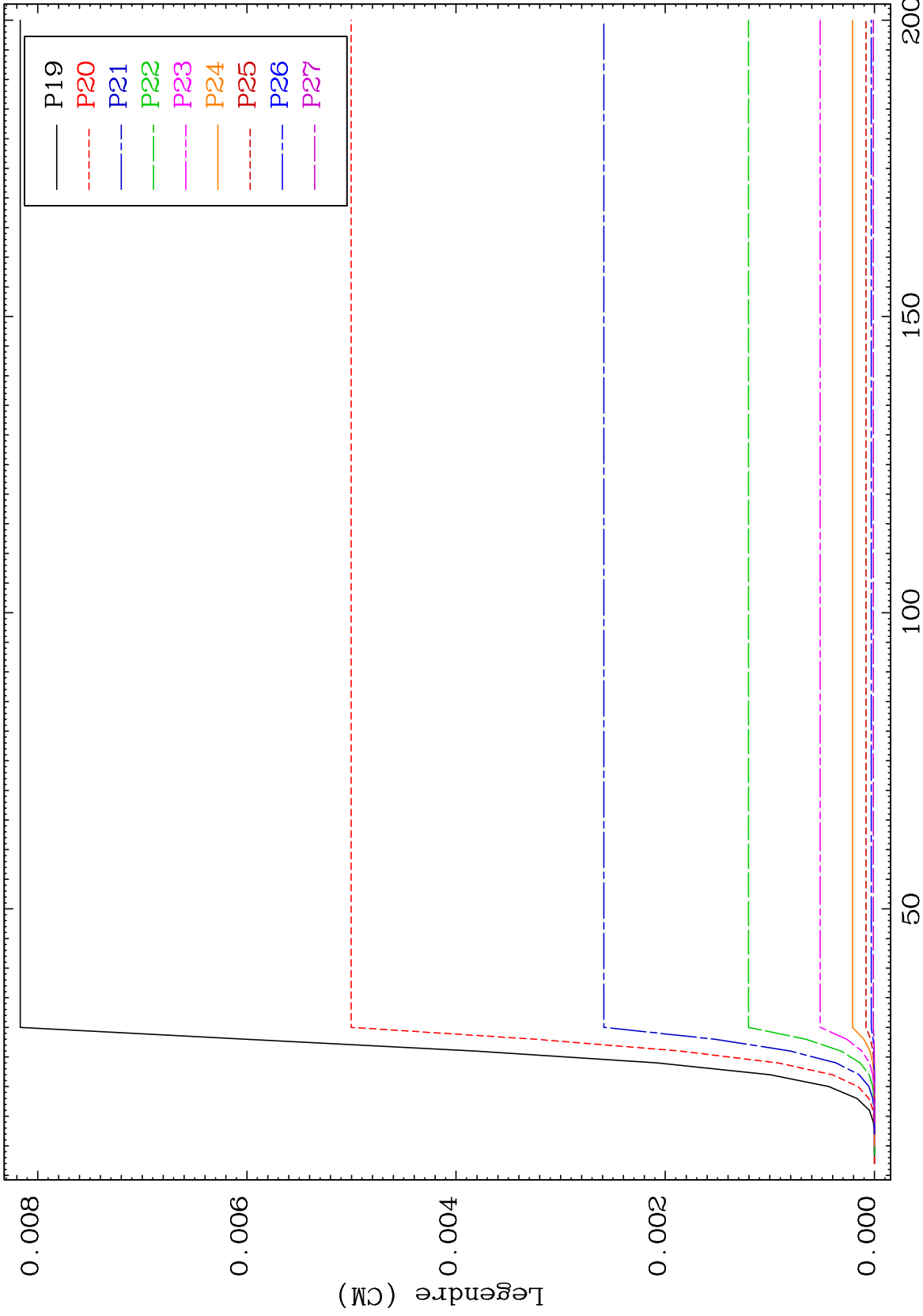
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



75

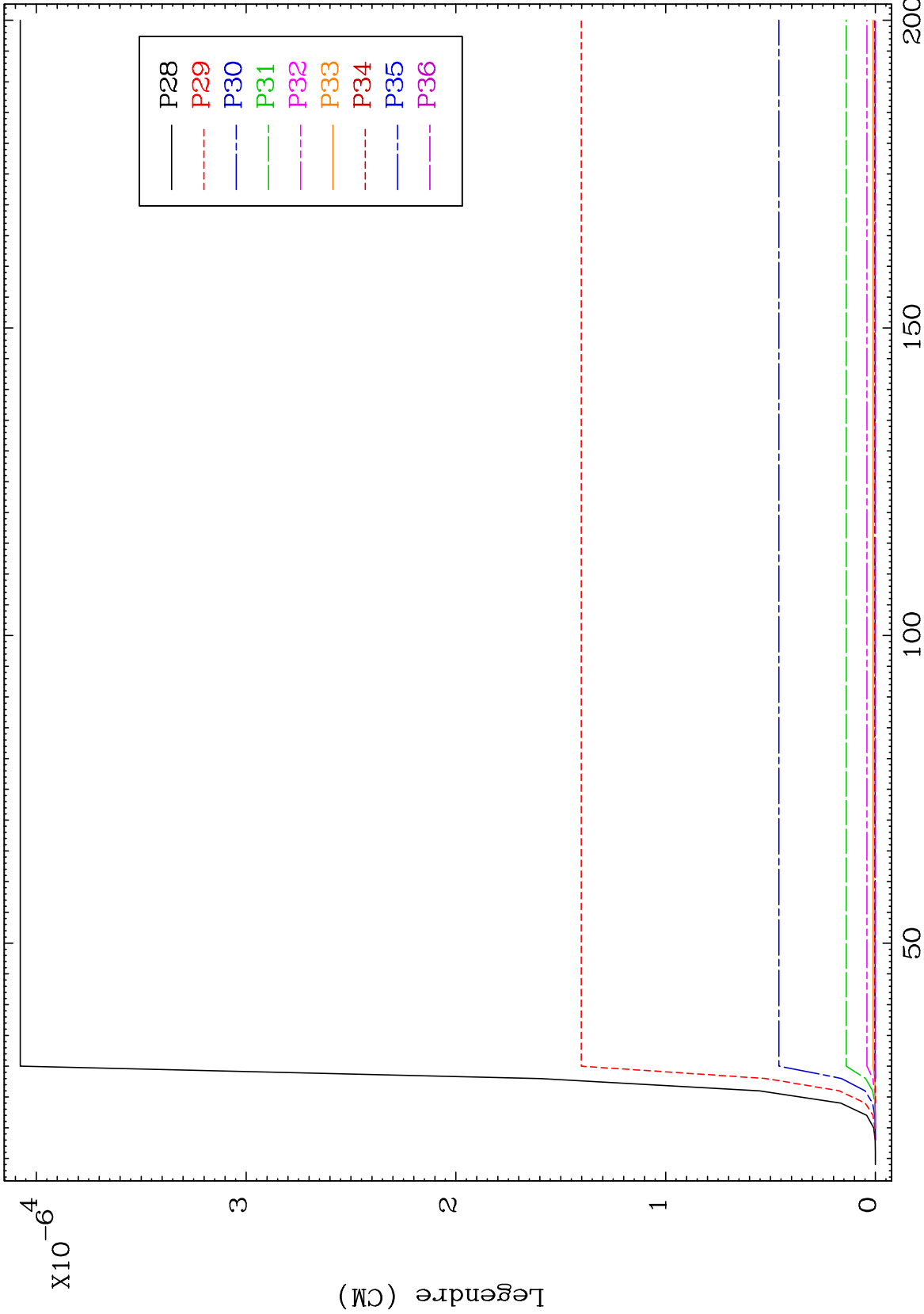
Incident Energy (MeV)

59-Pr-124

MAT 5874

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

59-Pr-124



76

Incident Energy (MeV)

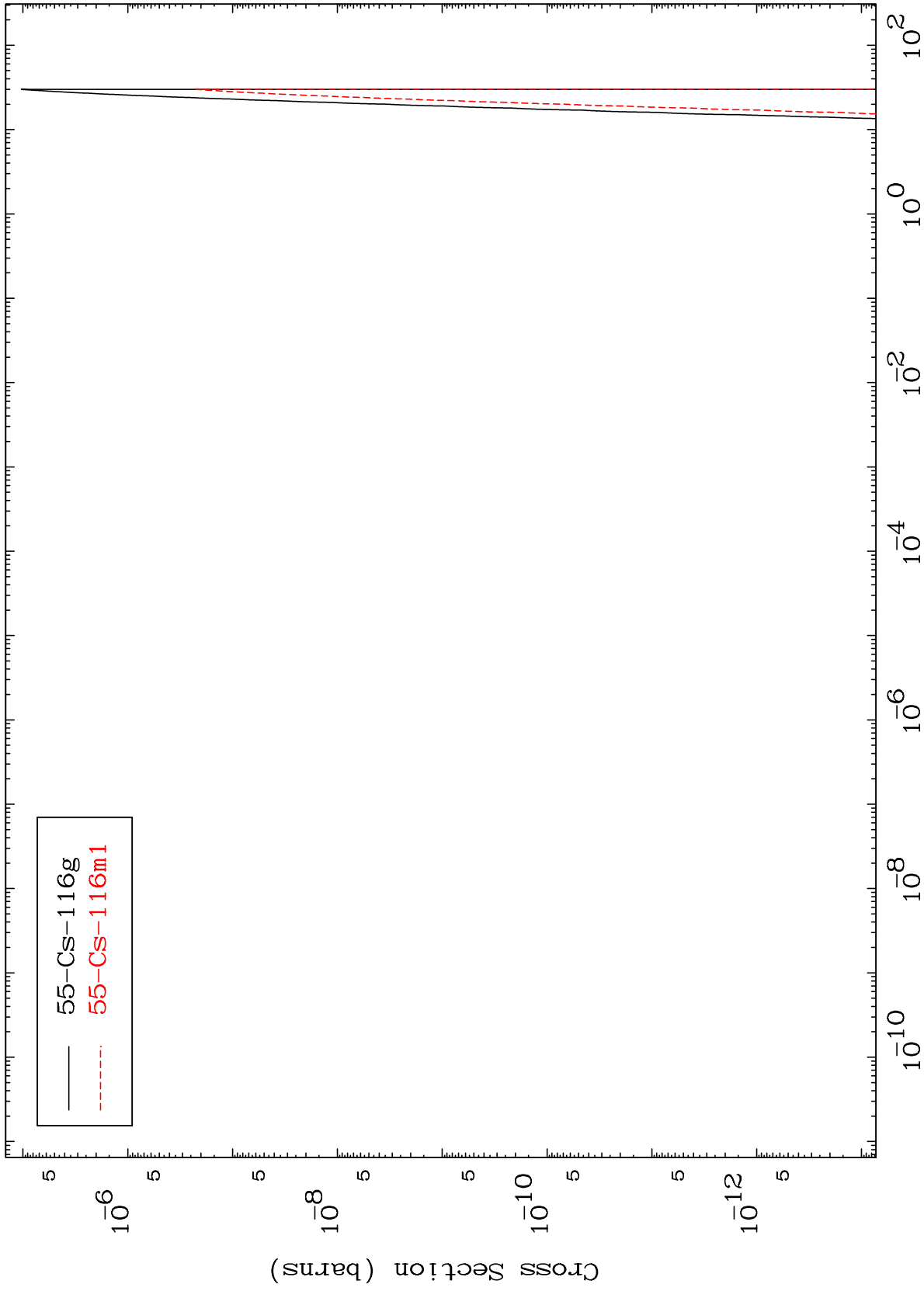
59-Pr-124

MAT 5874

(n,n') 2 $\alpha$

59-Pr-124

Radionuclide Production Cross Section



77

Incident Energy (MeV)

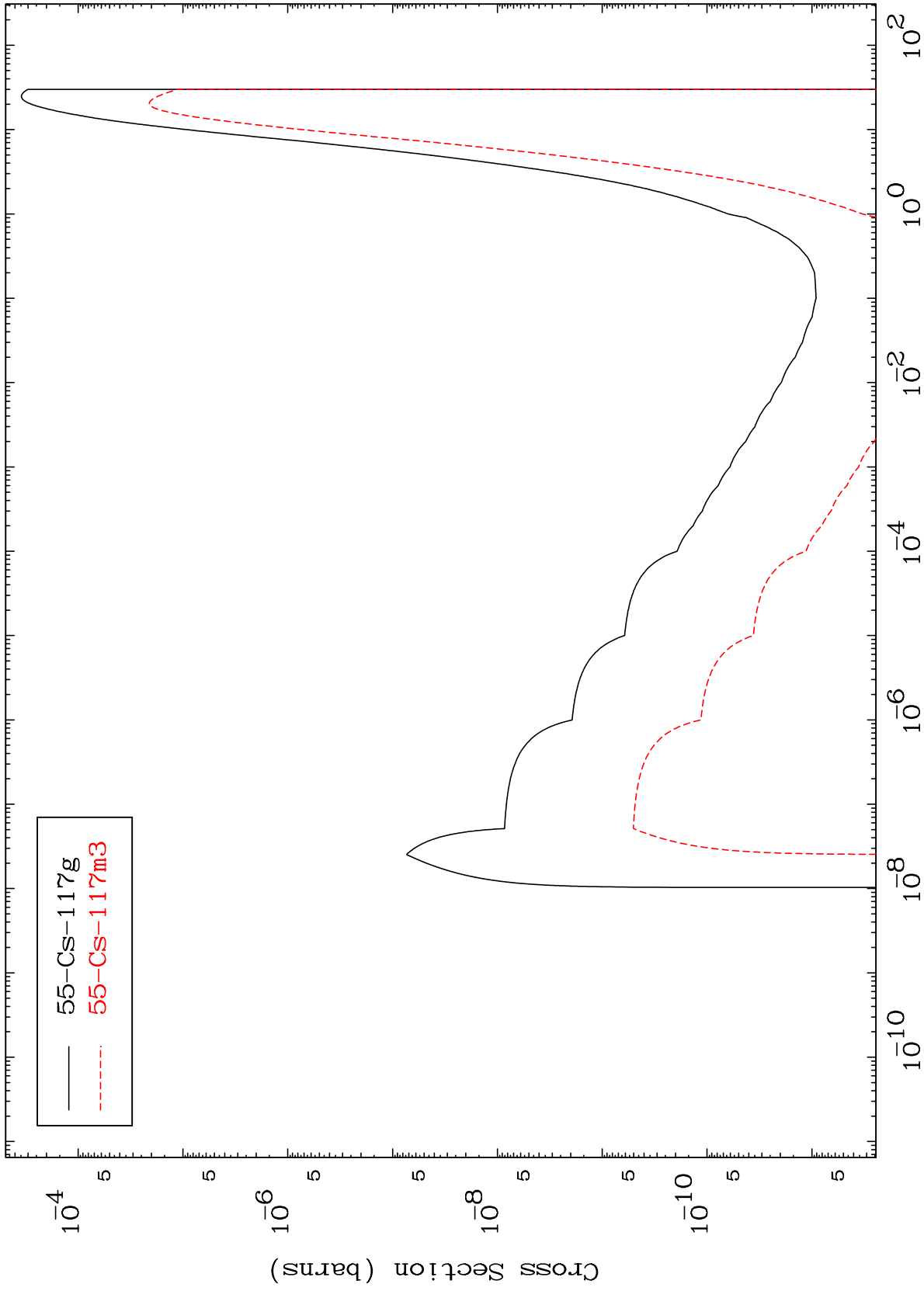
59-Pr-124

MAT 5874

(n,2α)

59-Pr-124

Radionuclide Production Cross Section



78

Incident Energy (MeV)

59-Pr-124