

Program EVALPLOT  
(Version 2017-1)

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

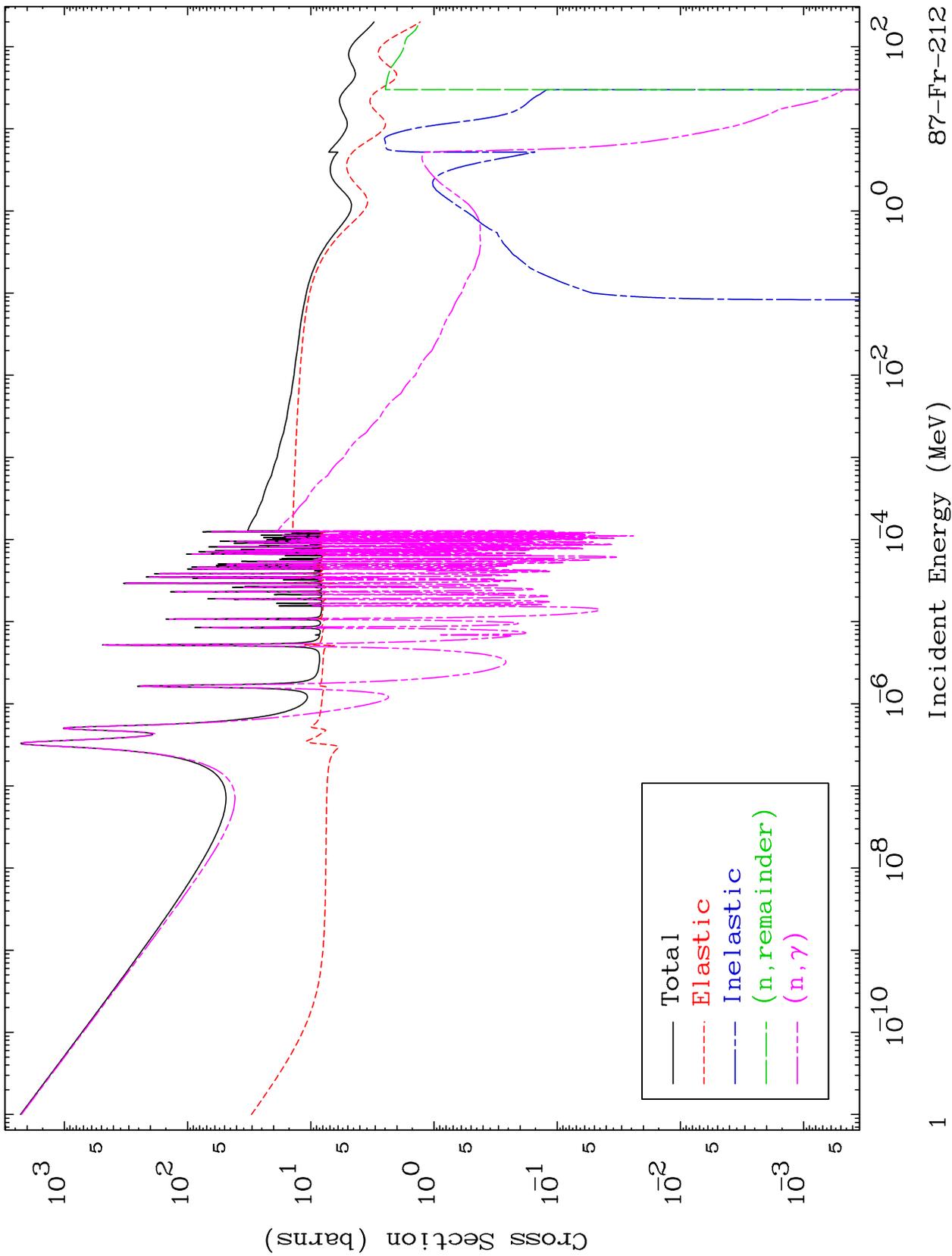
Press Mouse Button to Start

MAT 8725

Major

293 Kelvin Cross Sections

87-Fr-212



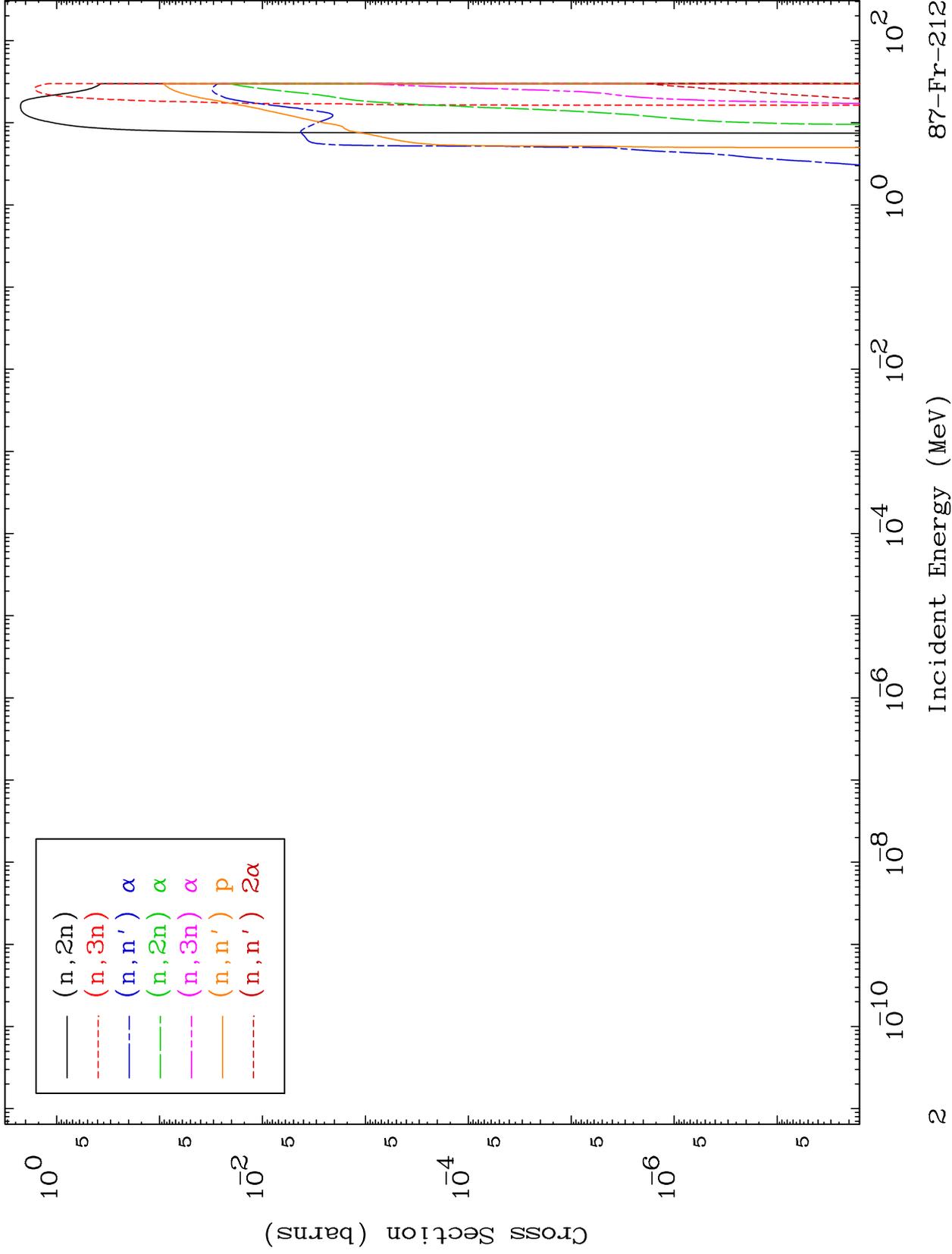
87-Fr-212

Incident Energy (MeV)

MAT 8725

Neutron Production  
293 Kelvin Cross Sections

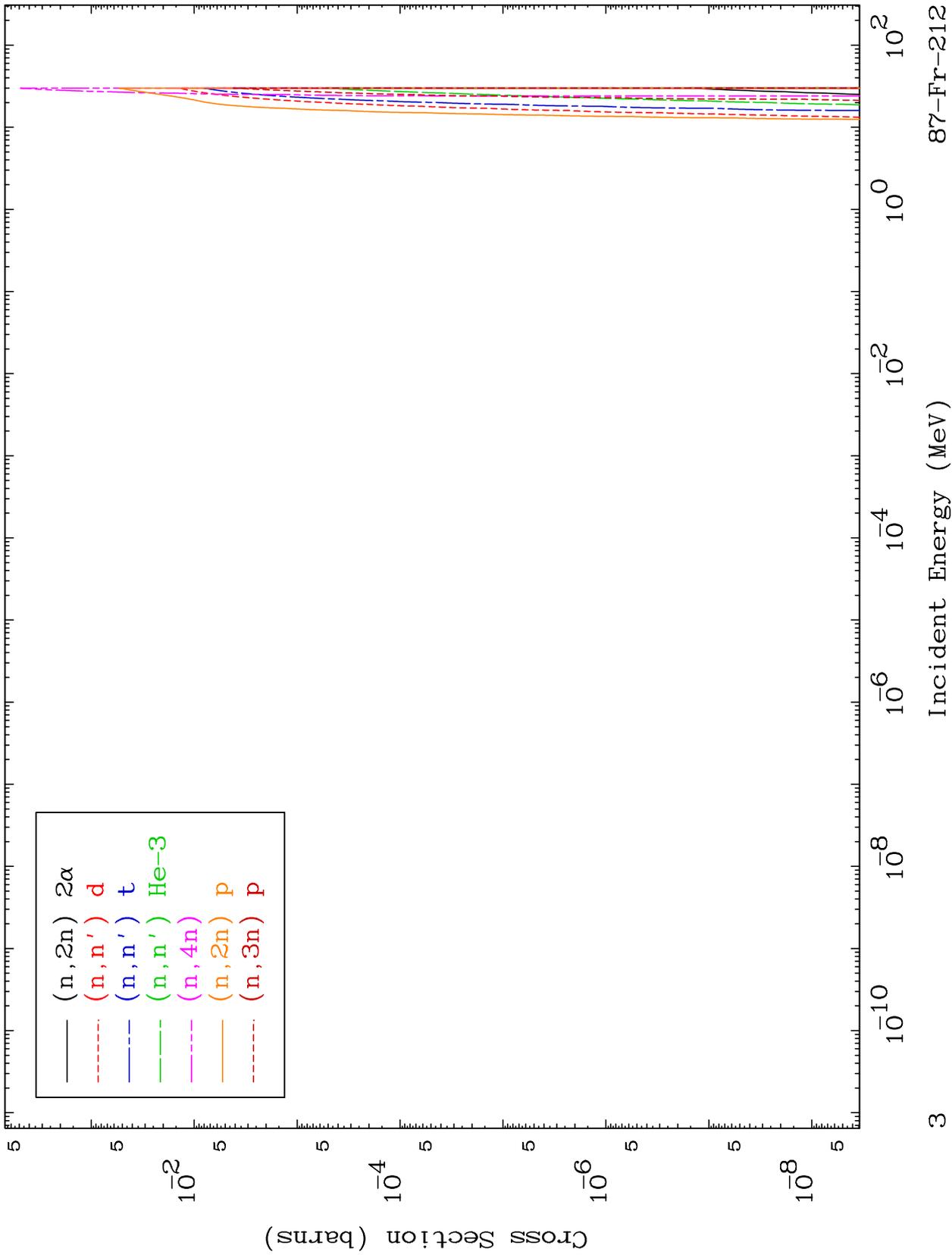
87-Fr-212



MAT 8725

Neutron Production  
293 Kelvin Cross Sections

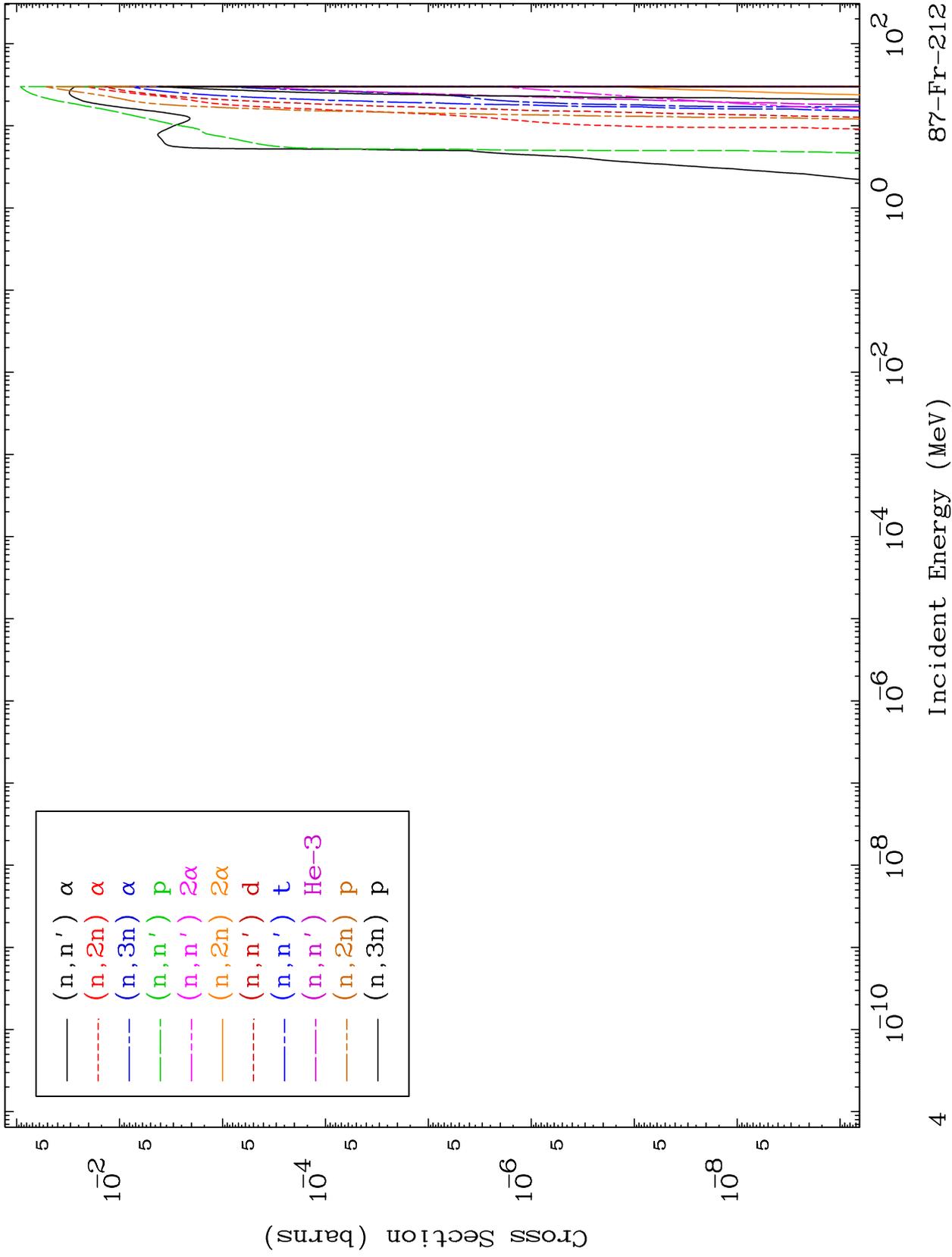
87-Fr-212



MAT 8725

Charged Particle  
293 Kelvin Cross Sections

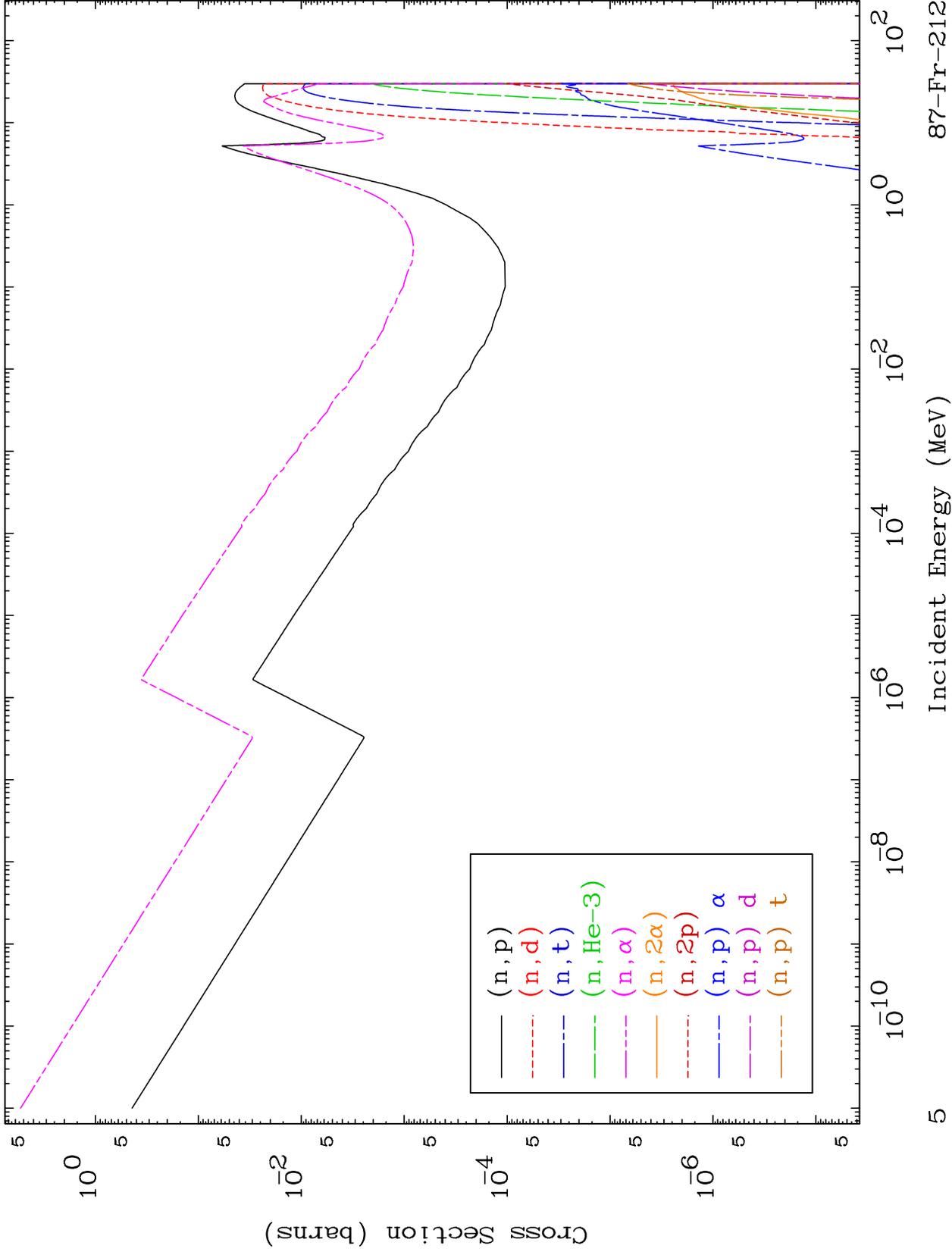
87-Fr-212



MAT 8725

Charged Particle  
293 Kelvin Cross Sections

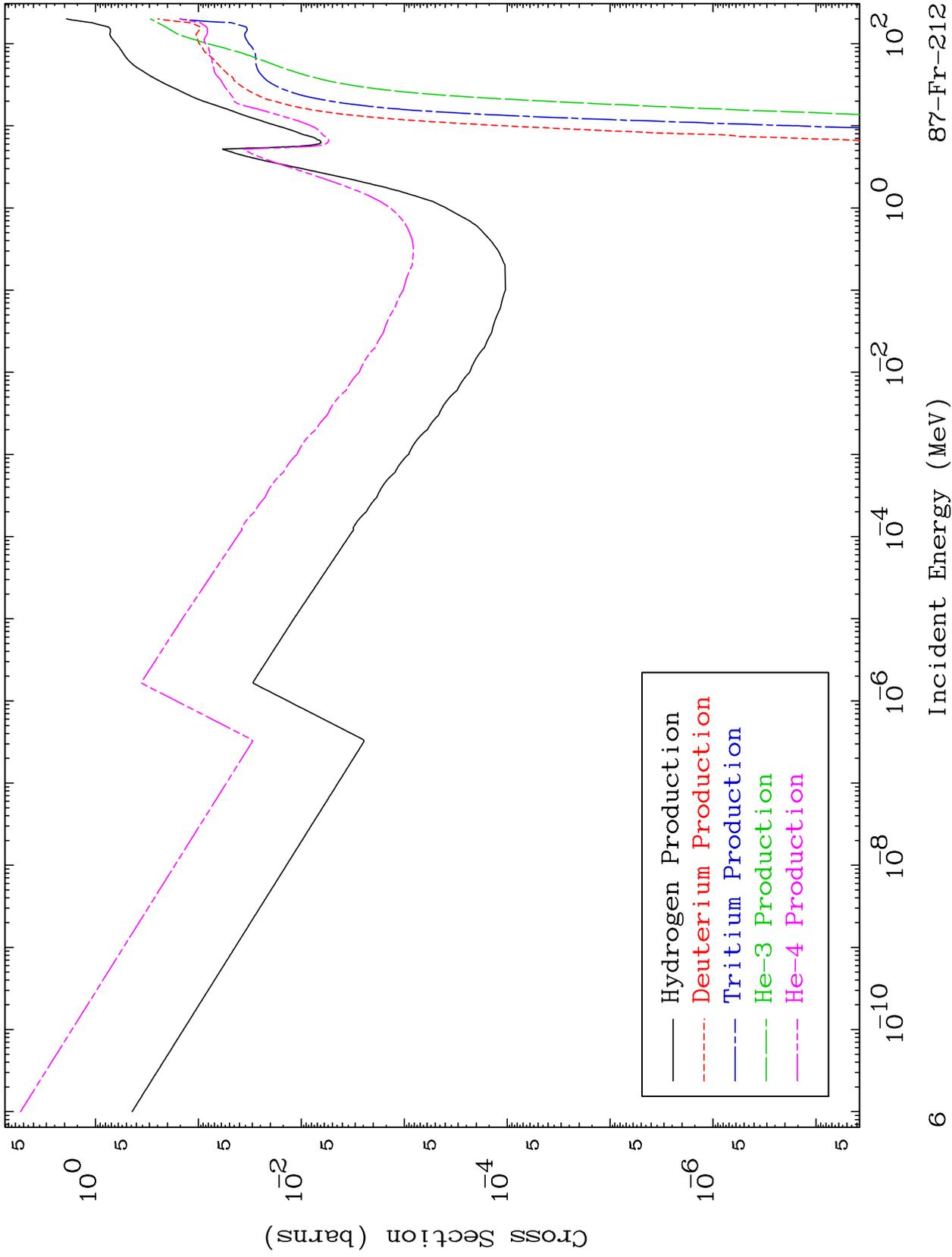
87-Fr-212



MAT 8725

Particle Production  
293 Kelvin Cross Sections

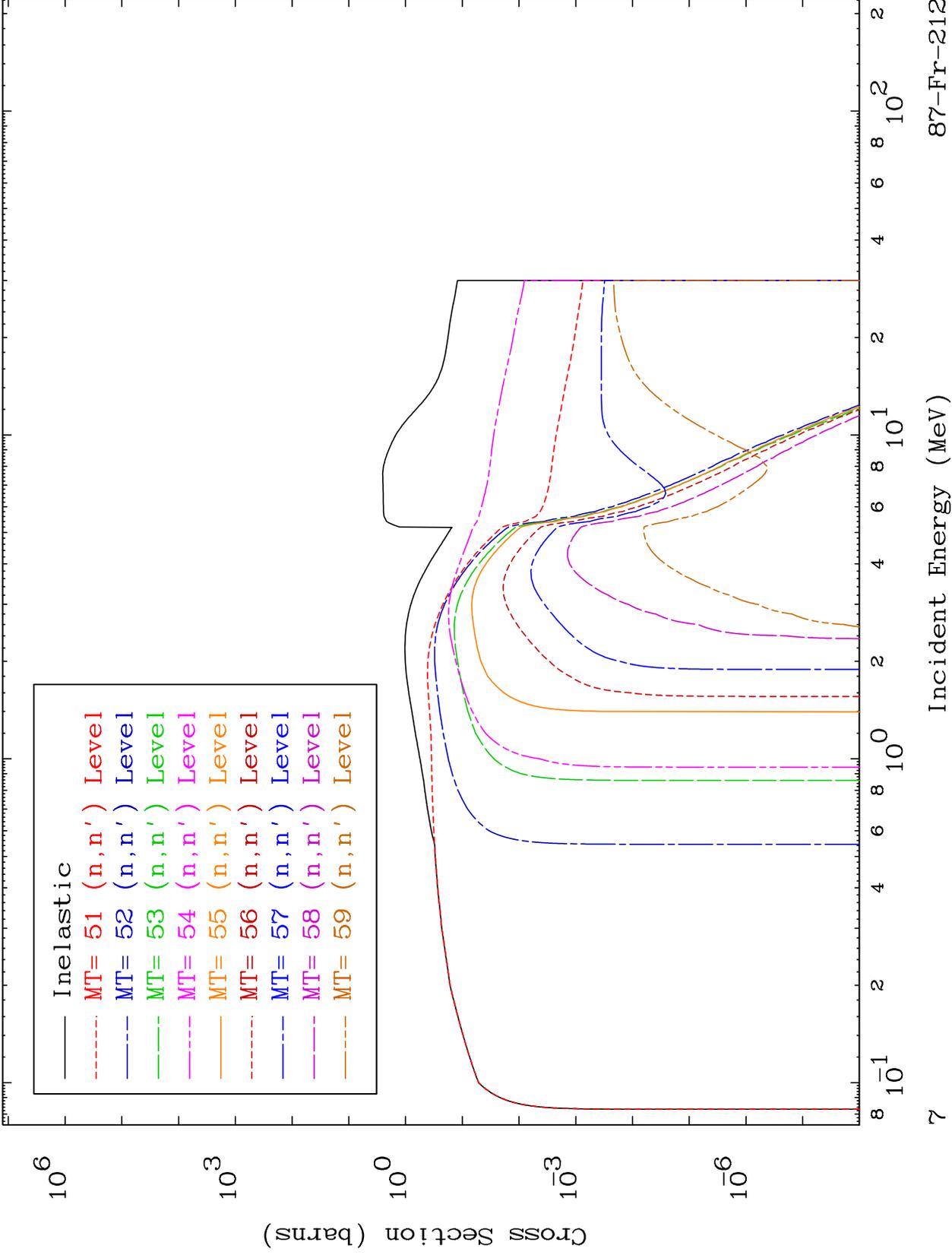
87-Fr-212



MAT 8725

(n,n') Level  
293 Kelvin Cross Sections

87-Fr-212

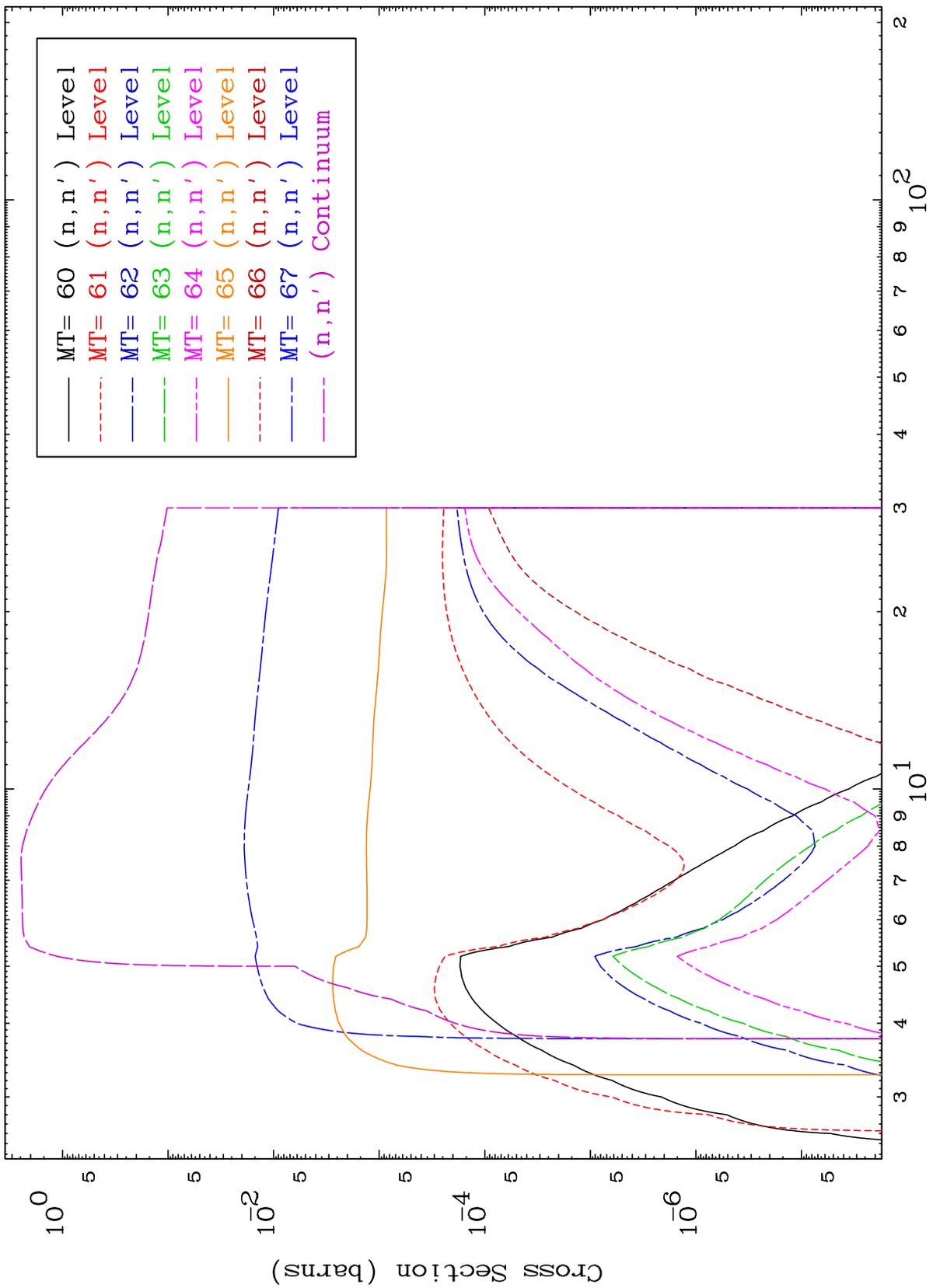


87-Fr-212

Incident Energy (MeV)

7

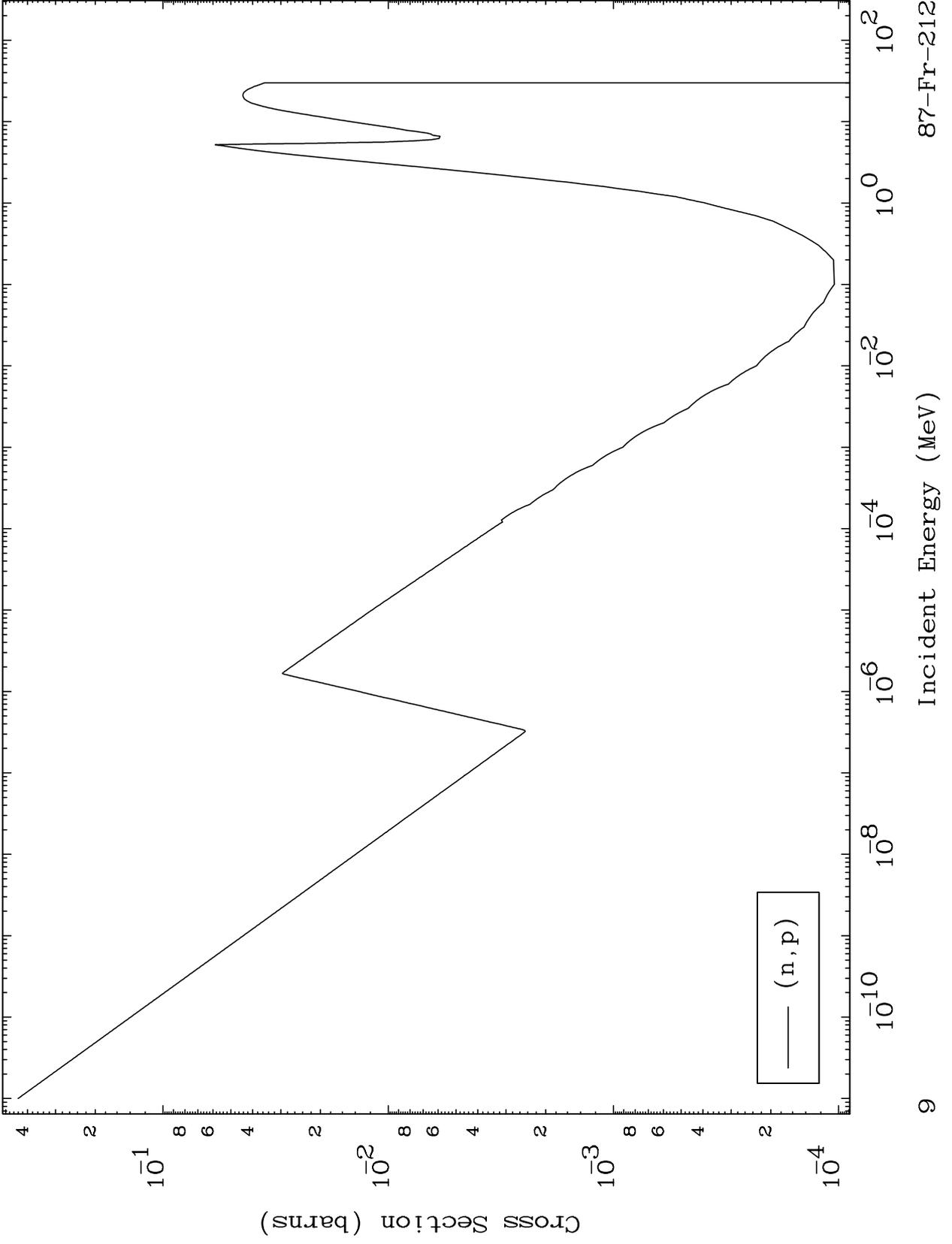
293 Kelvin Cross Sections



MAT 8725

(n,p) Levels  
293 Kelvin Cross Sections

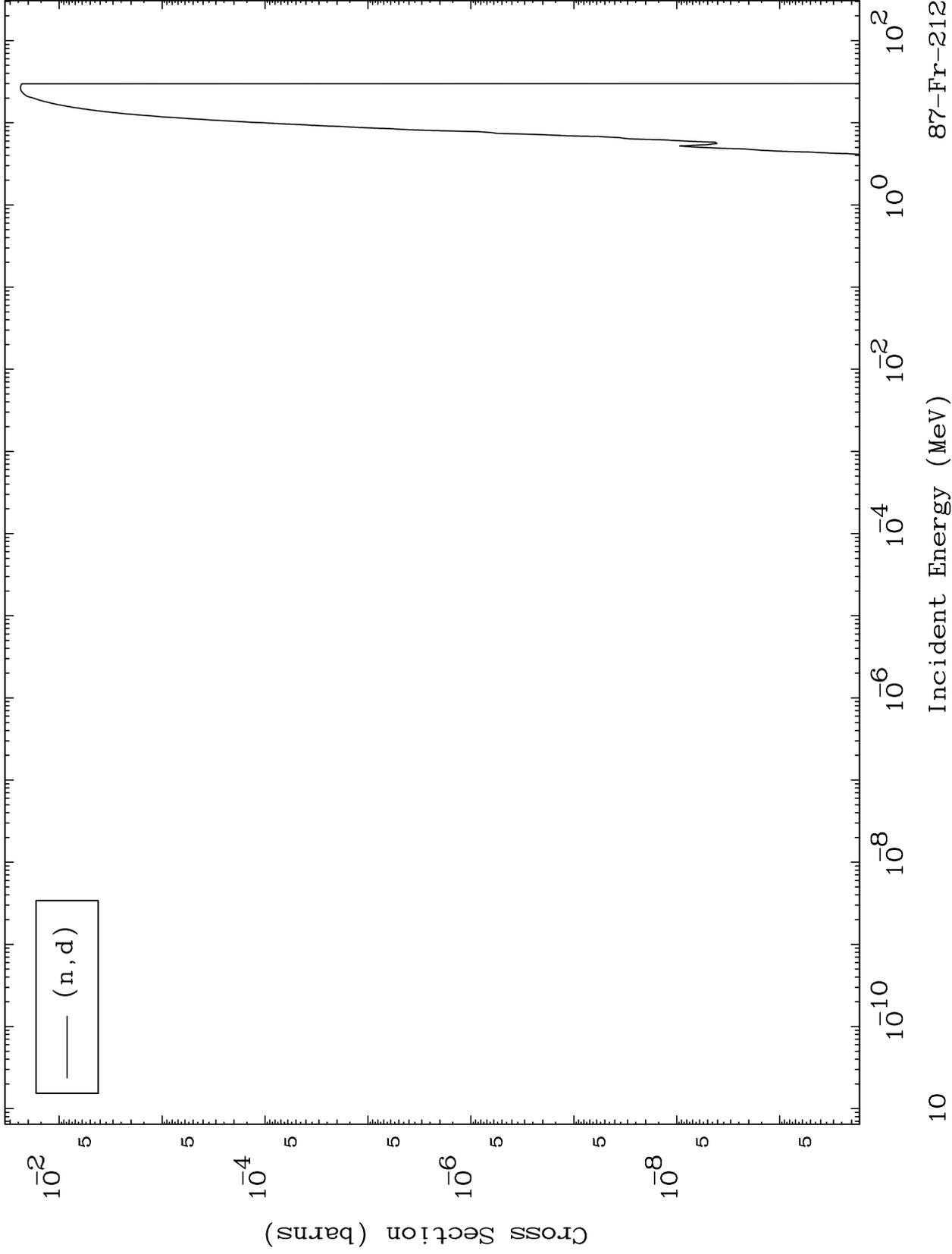
87-Fr-212



MAT 8725

(n,d) Levels  
293 Kelvin Cross Sections

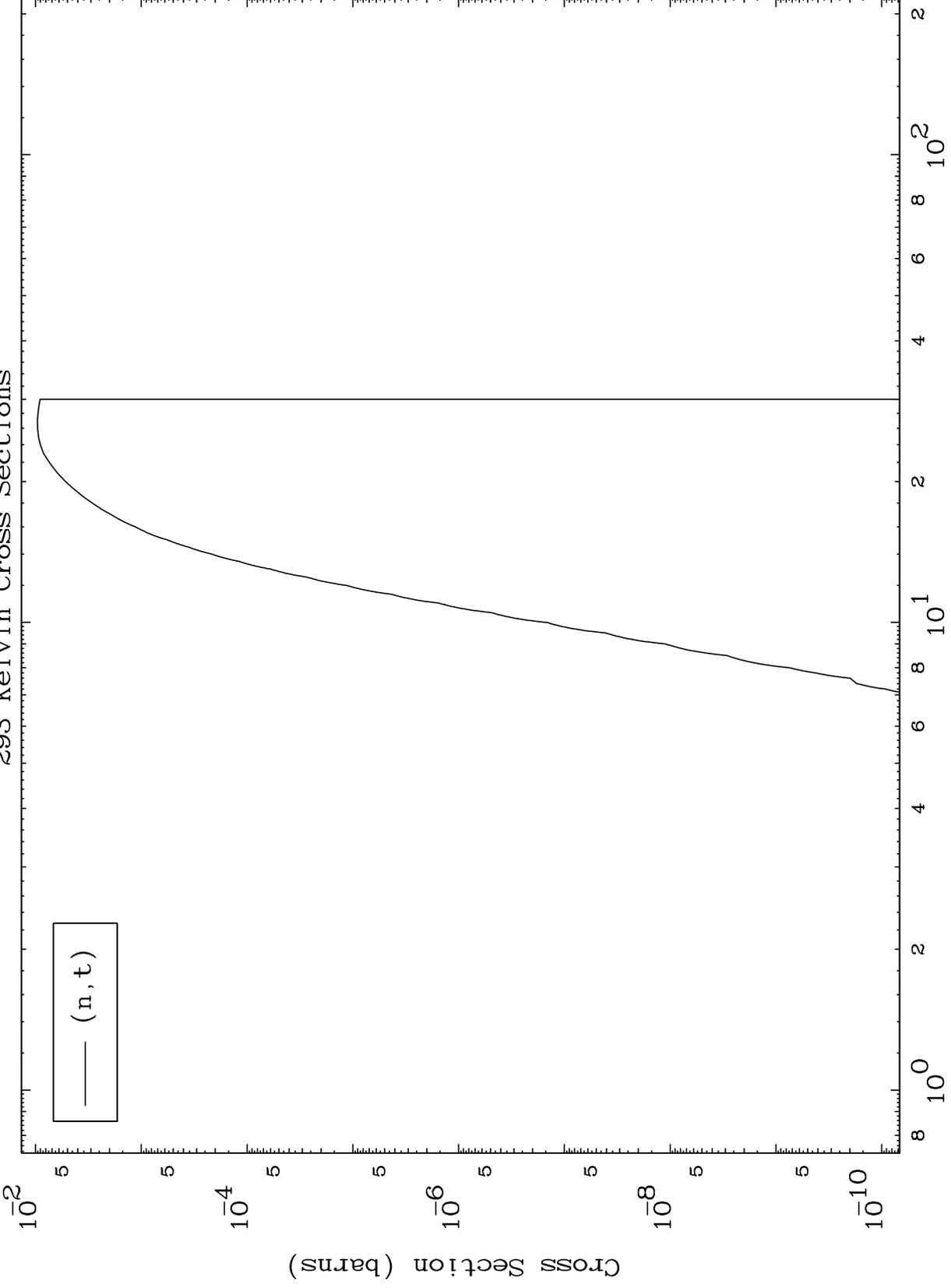
87-Fr-212



MAT 8725

(n,t) Levels  
293 Kelvin Cross Sections

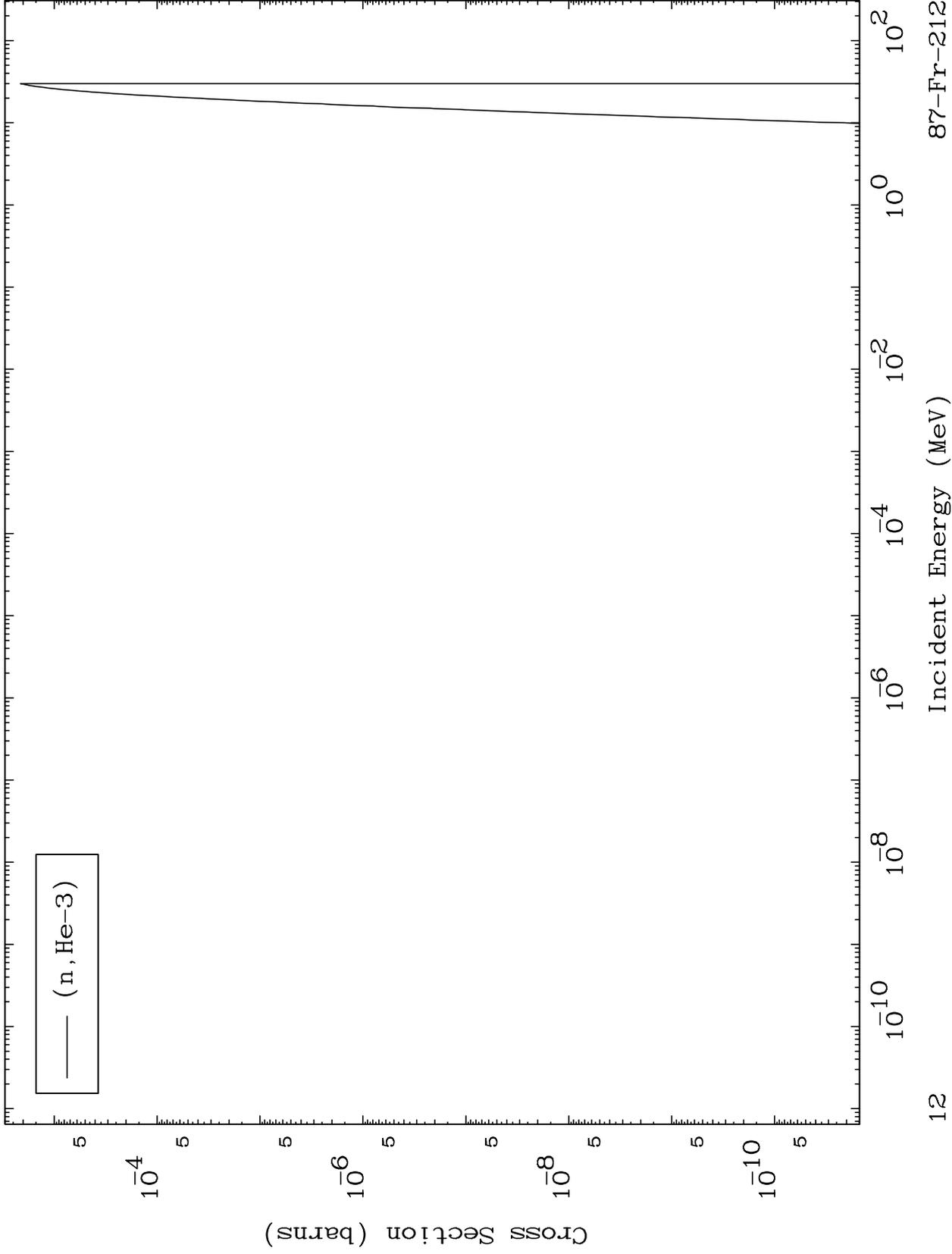
87-Fr-212



MAT 8725

(n,He3) Levels  
293 Kelvin Cross Sections

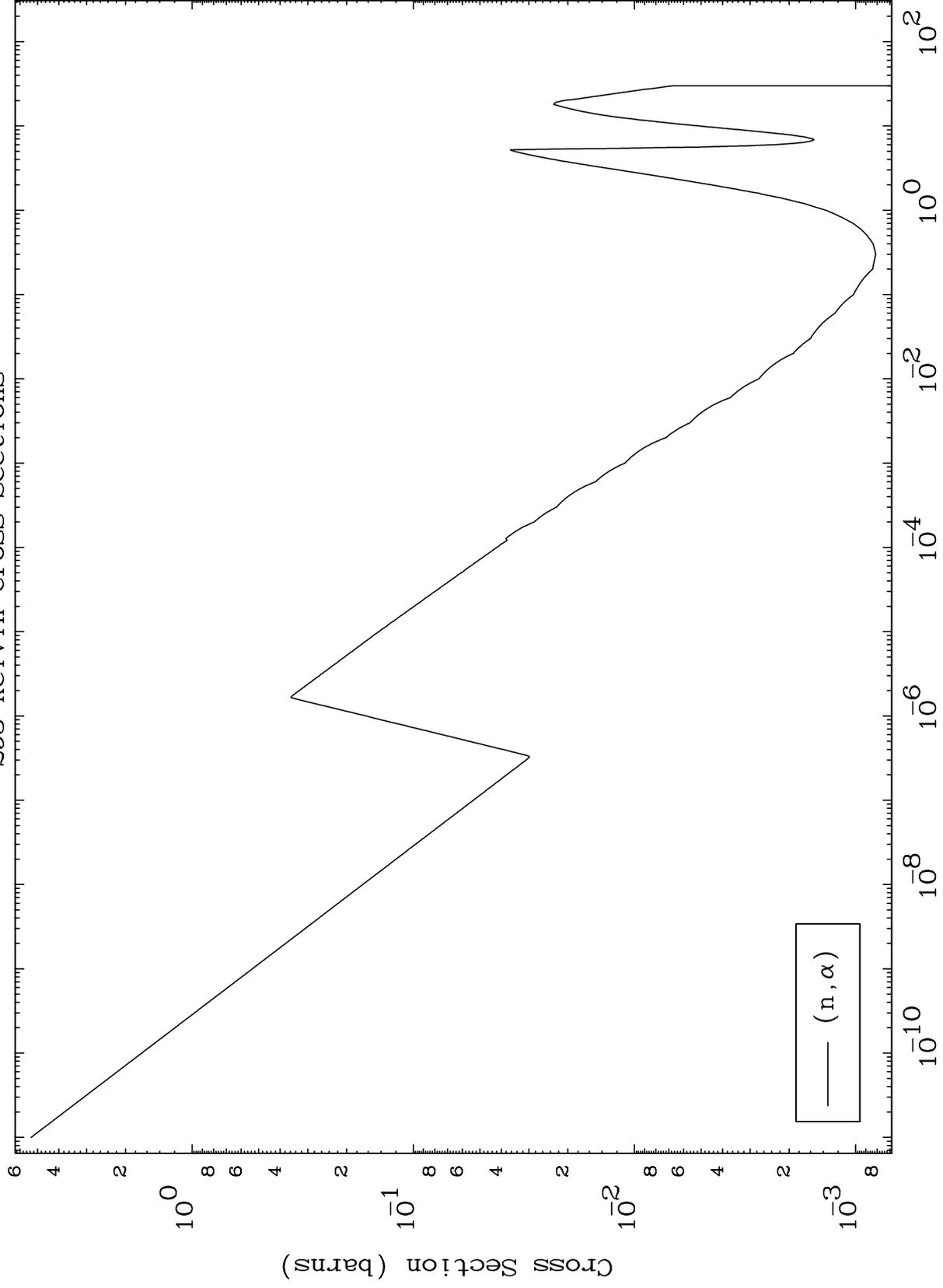
87-Fr-212



MAT 8725

(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

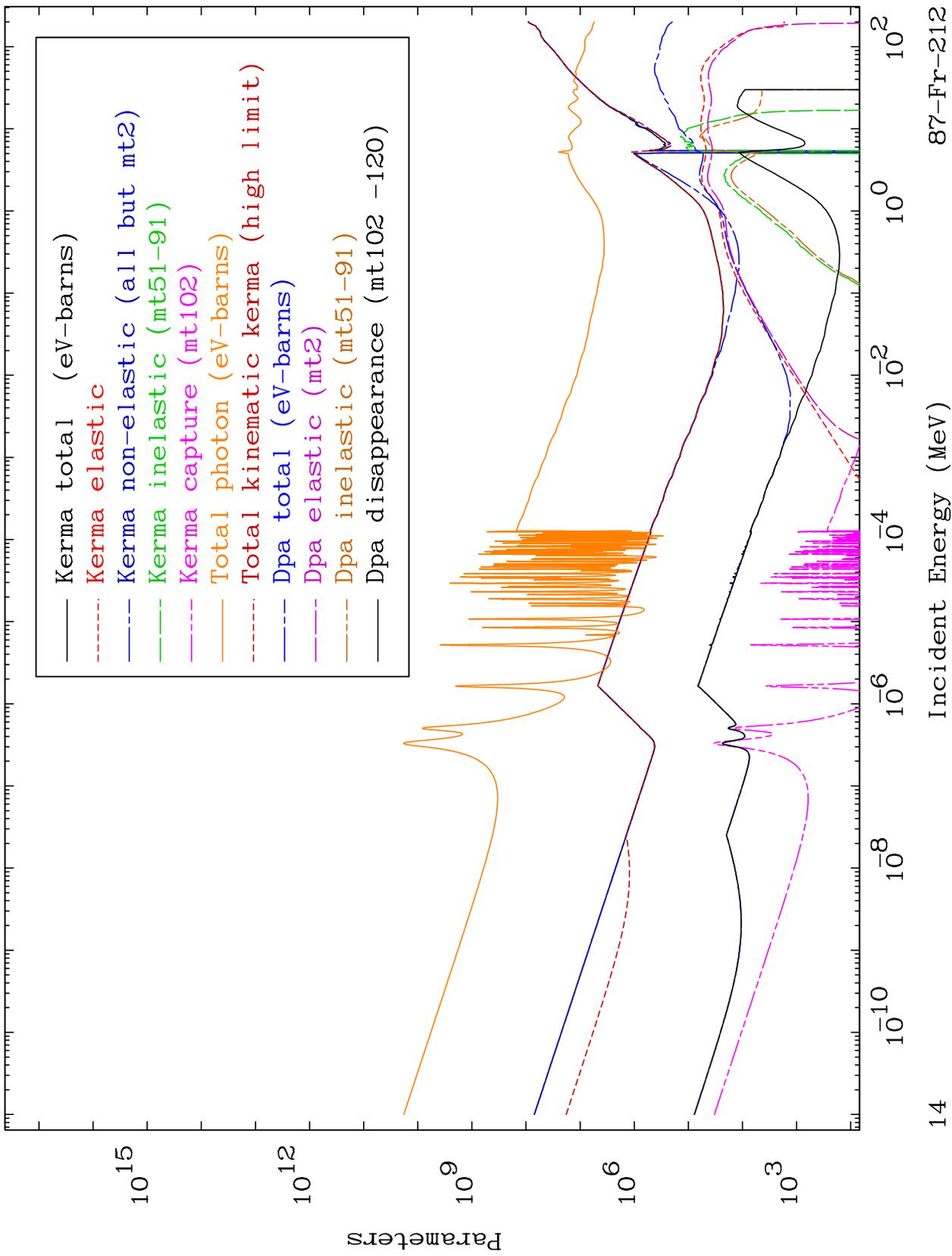
87-Fr-212

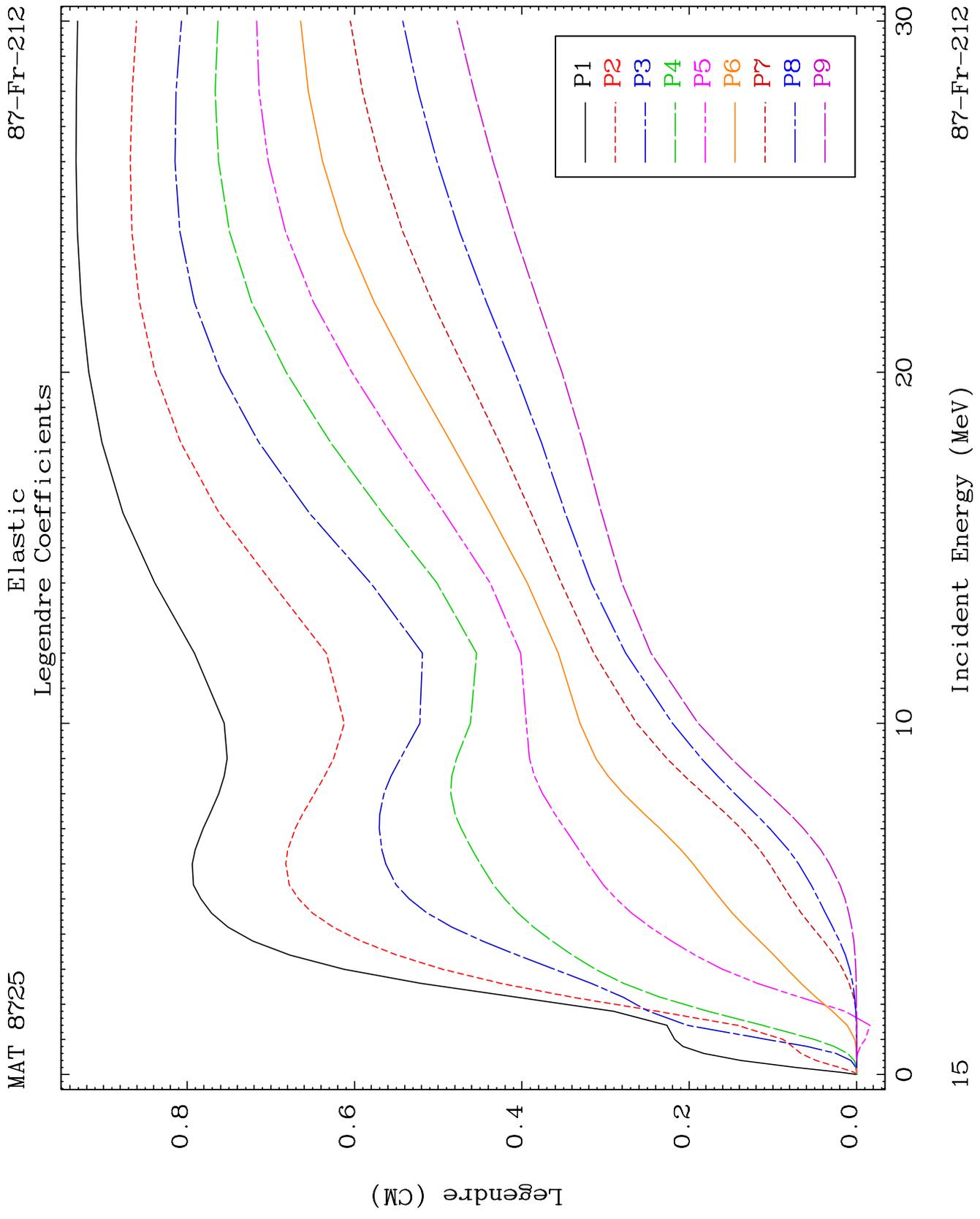


13

Incident Energy (MeV)

87-Fr-212

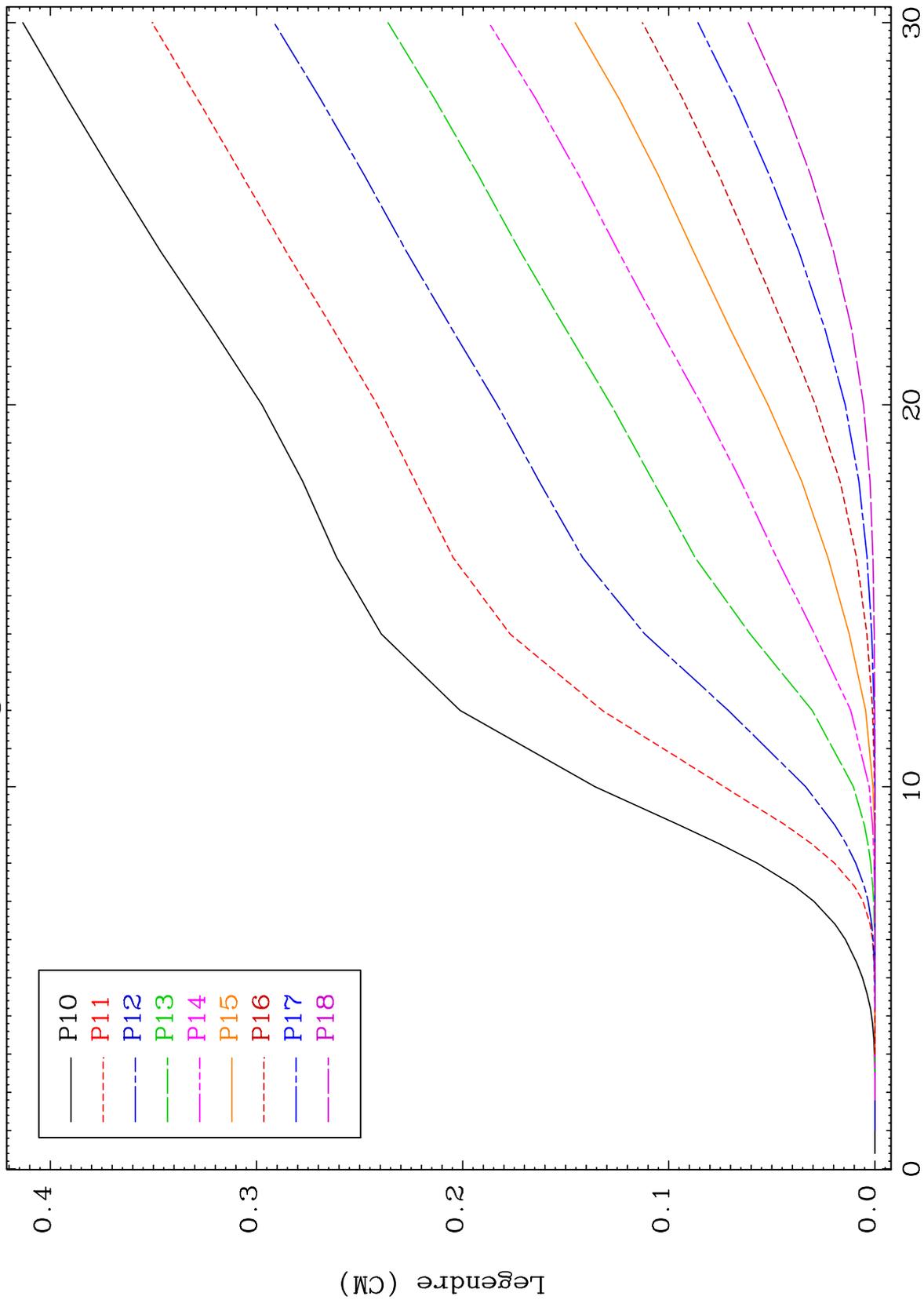




MAT 8725

Elastic Legendre Coefficients

87-Fr-212



16

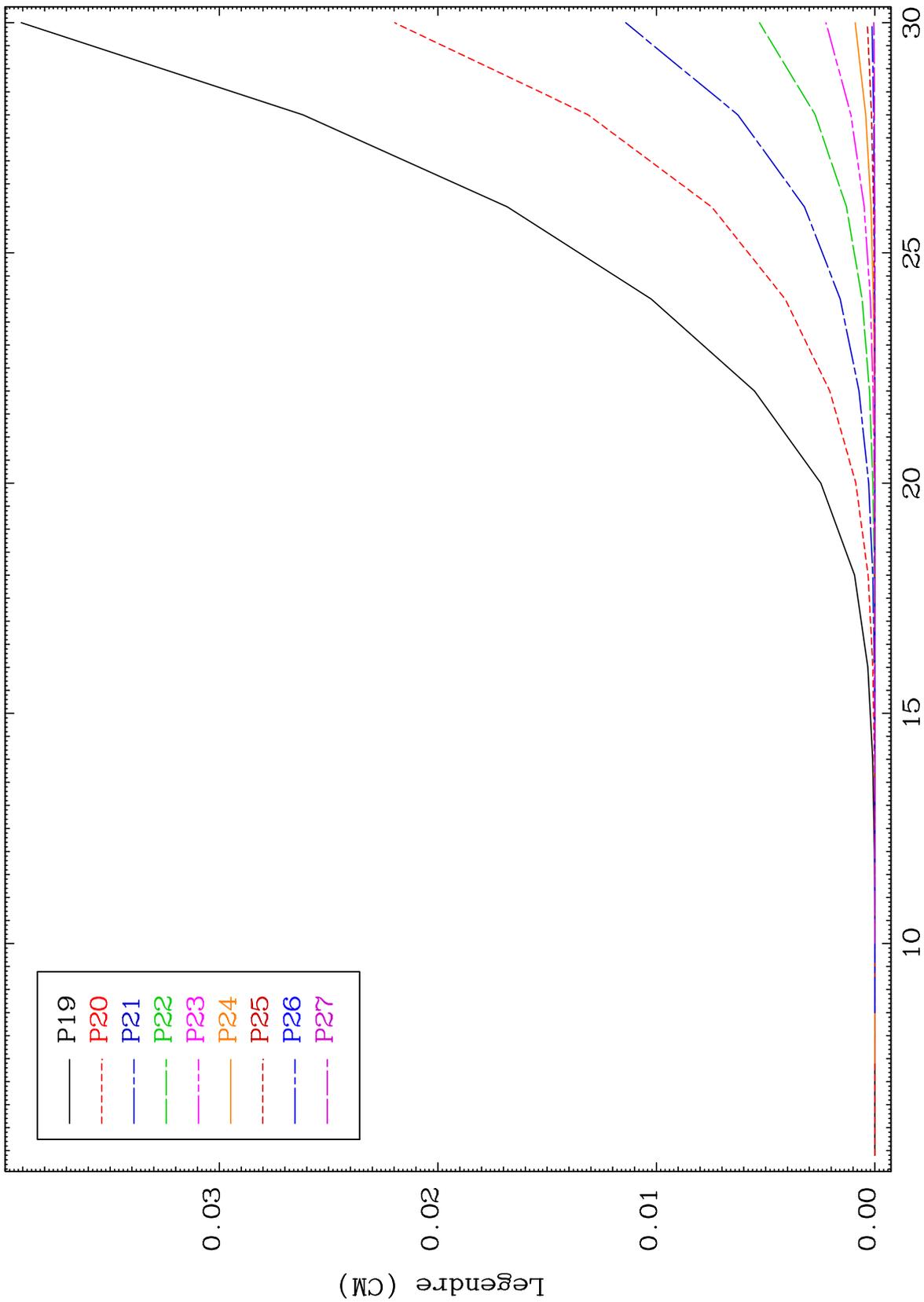
Incident Energy (MeV)

87-Fr-212

MAT 8725

Elastic  
Legendre Coefficients

87-Fr-212



17

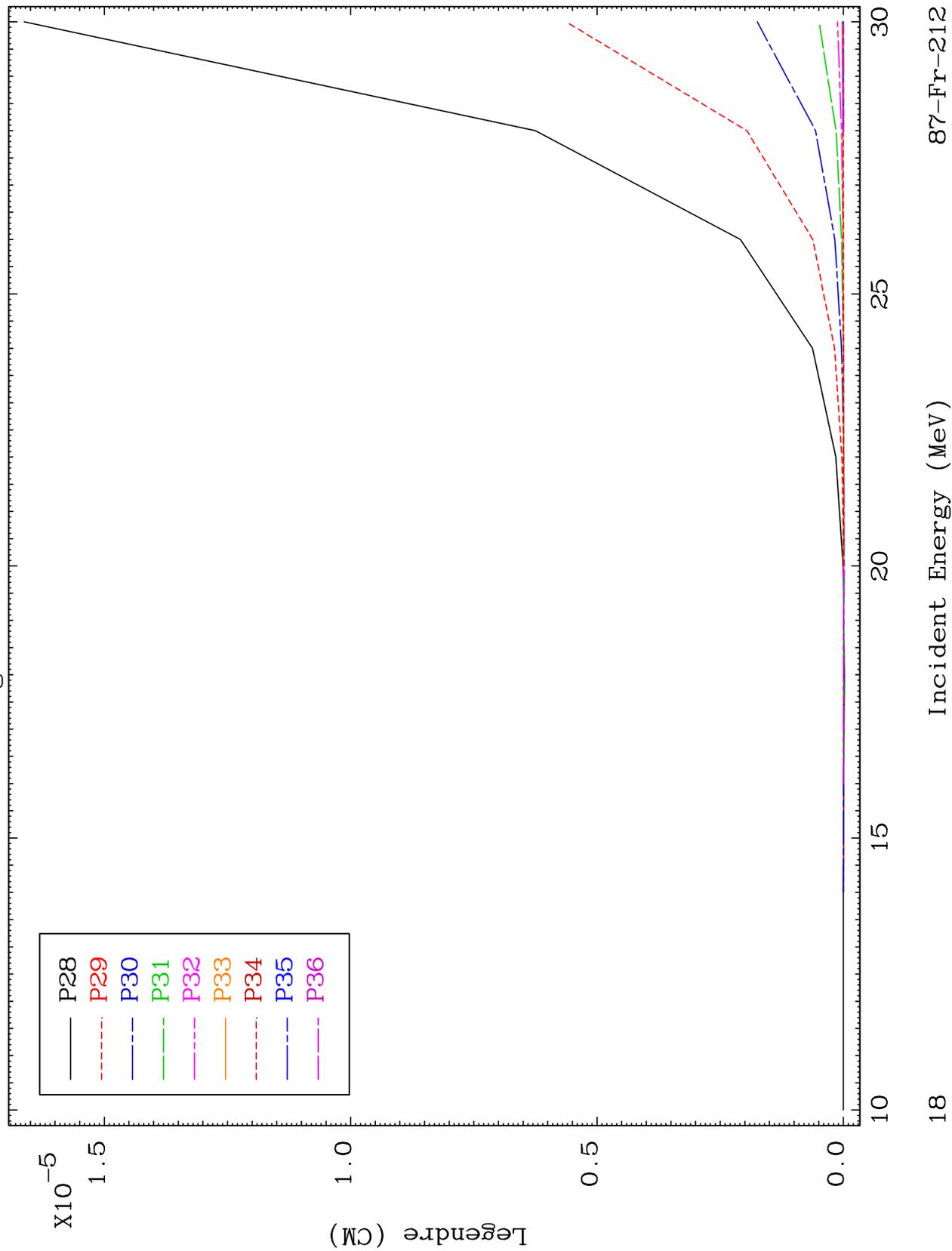
Incident Energy (MeV)

87-Fr-212

MAT 8725

Elastic  
Legendre Coefficients

87-Fr-212



87-Fr-212

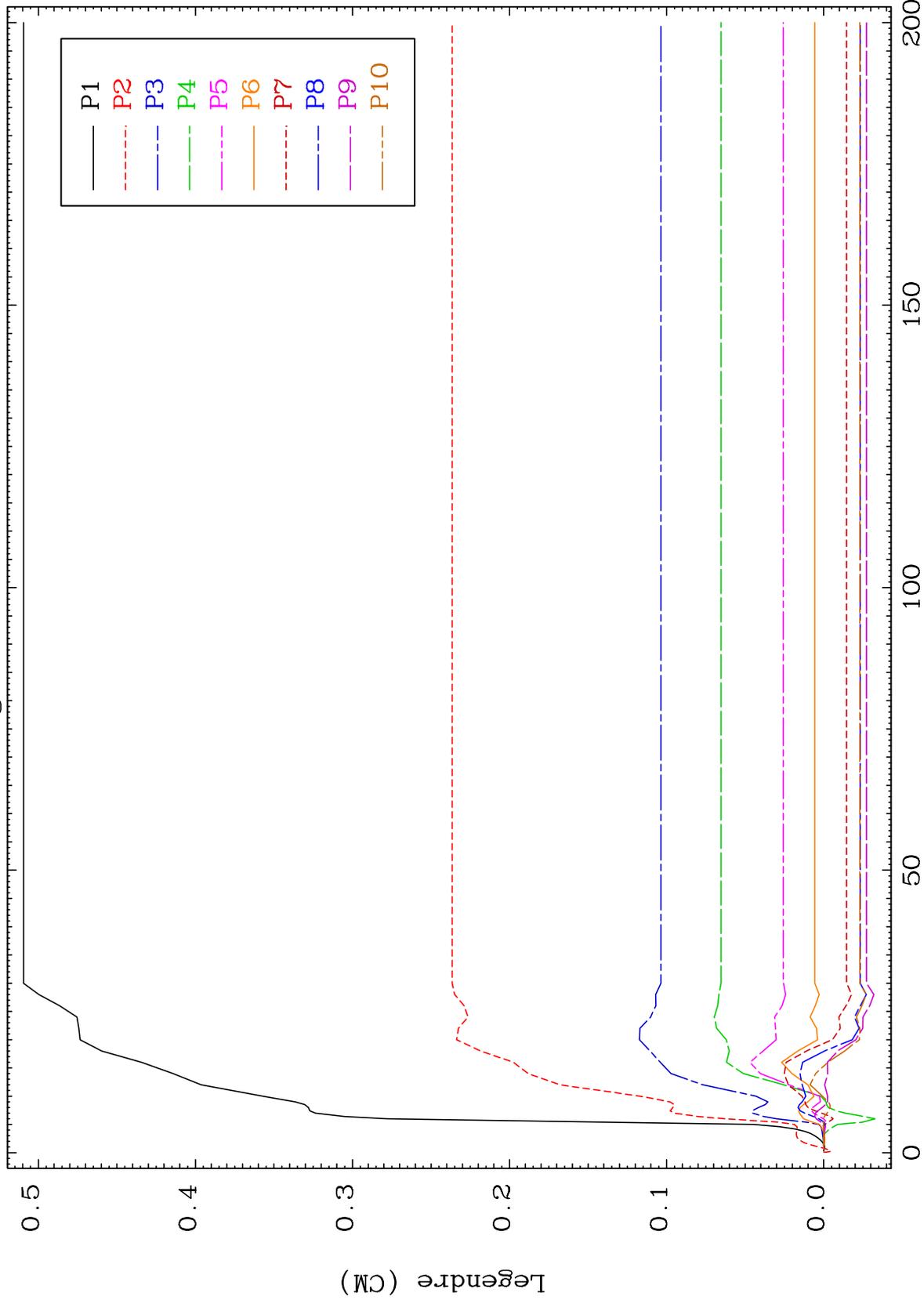
Incident Energy (MeV)

18

MAT 8725

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

87-Fr-212



19

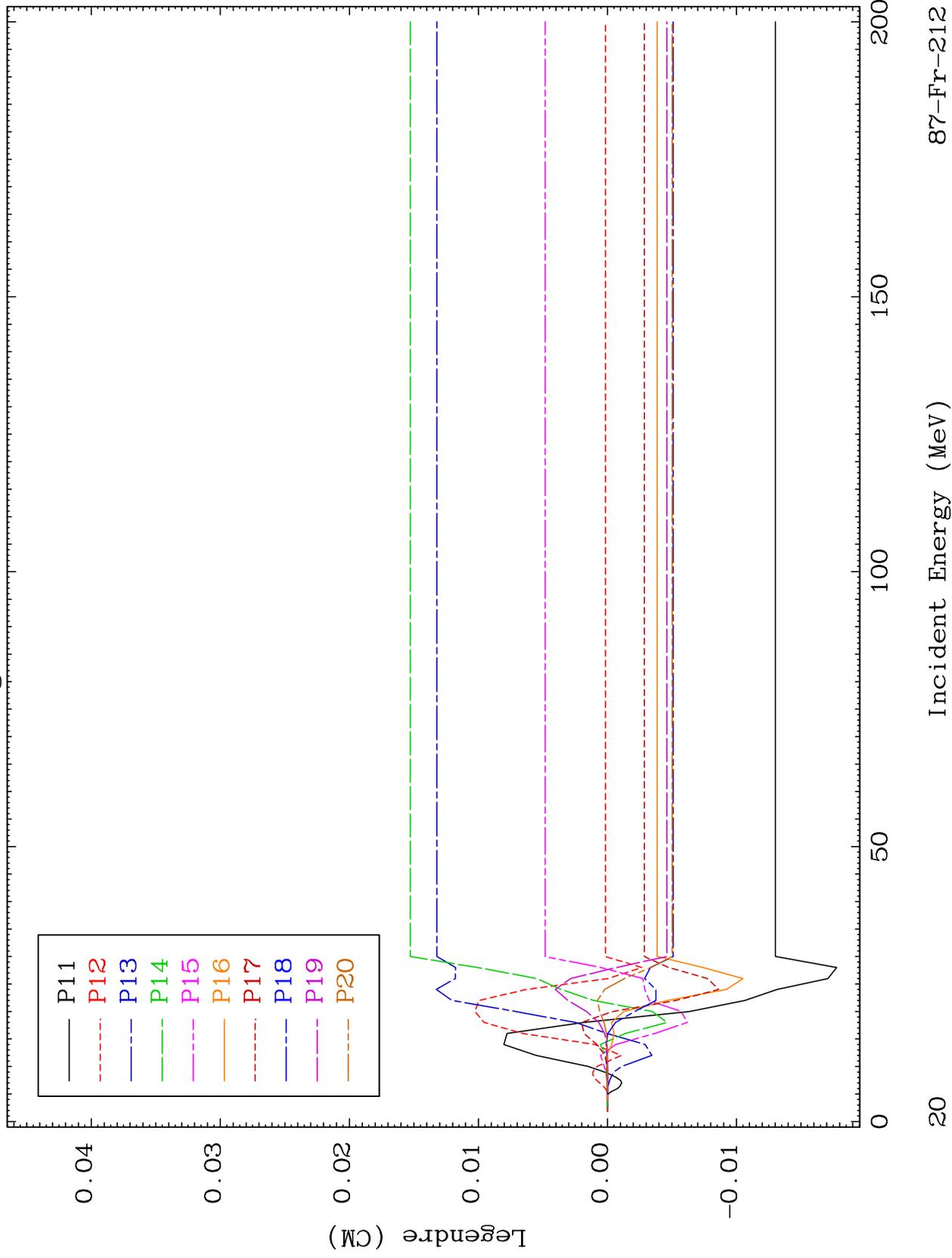
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

87-Fr-212



87-Fr-212

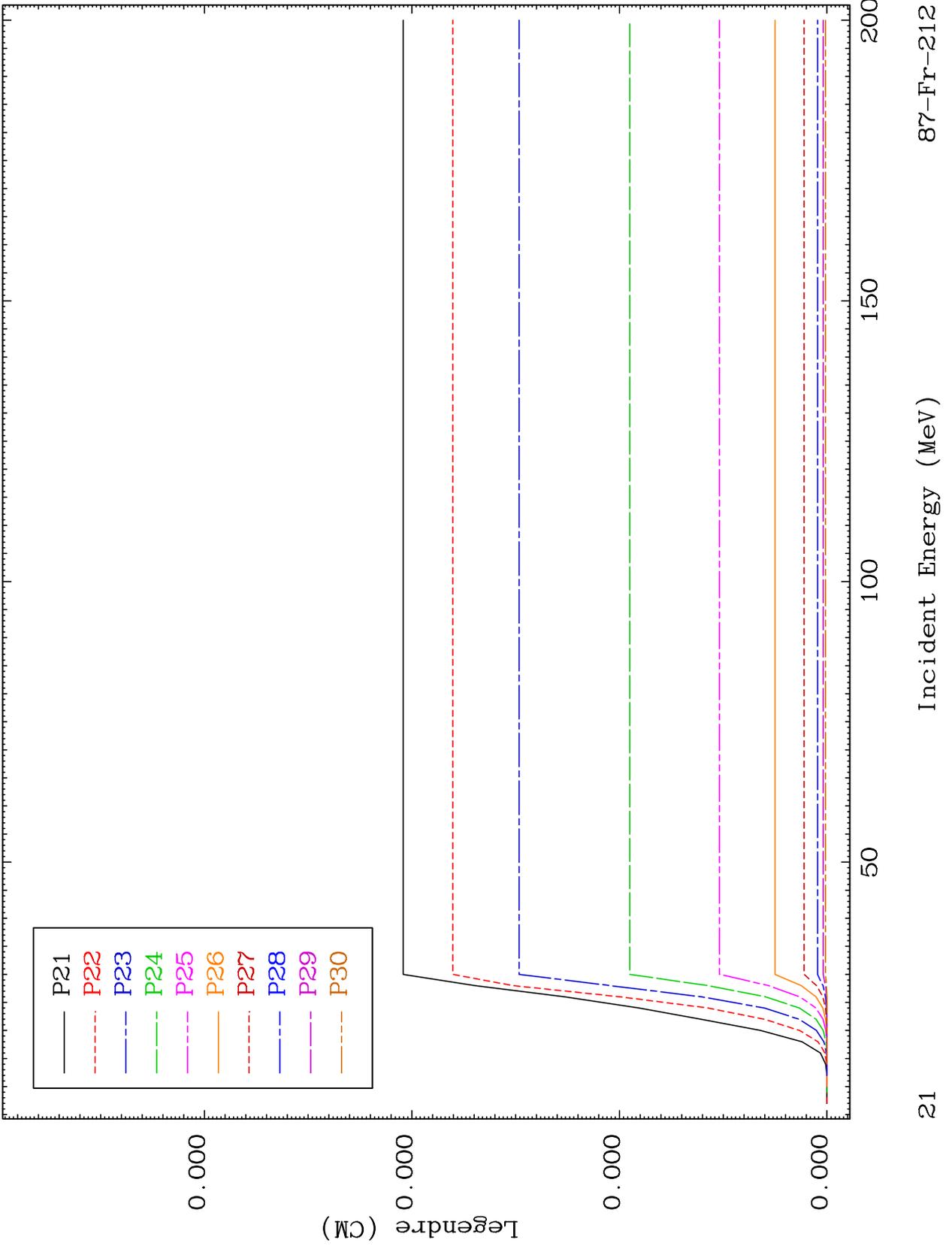
Incident Energy (MeV)

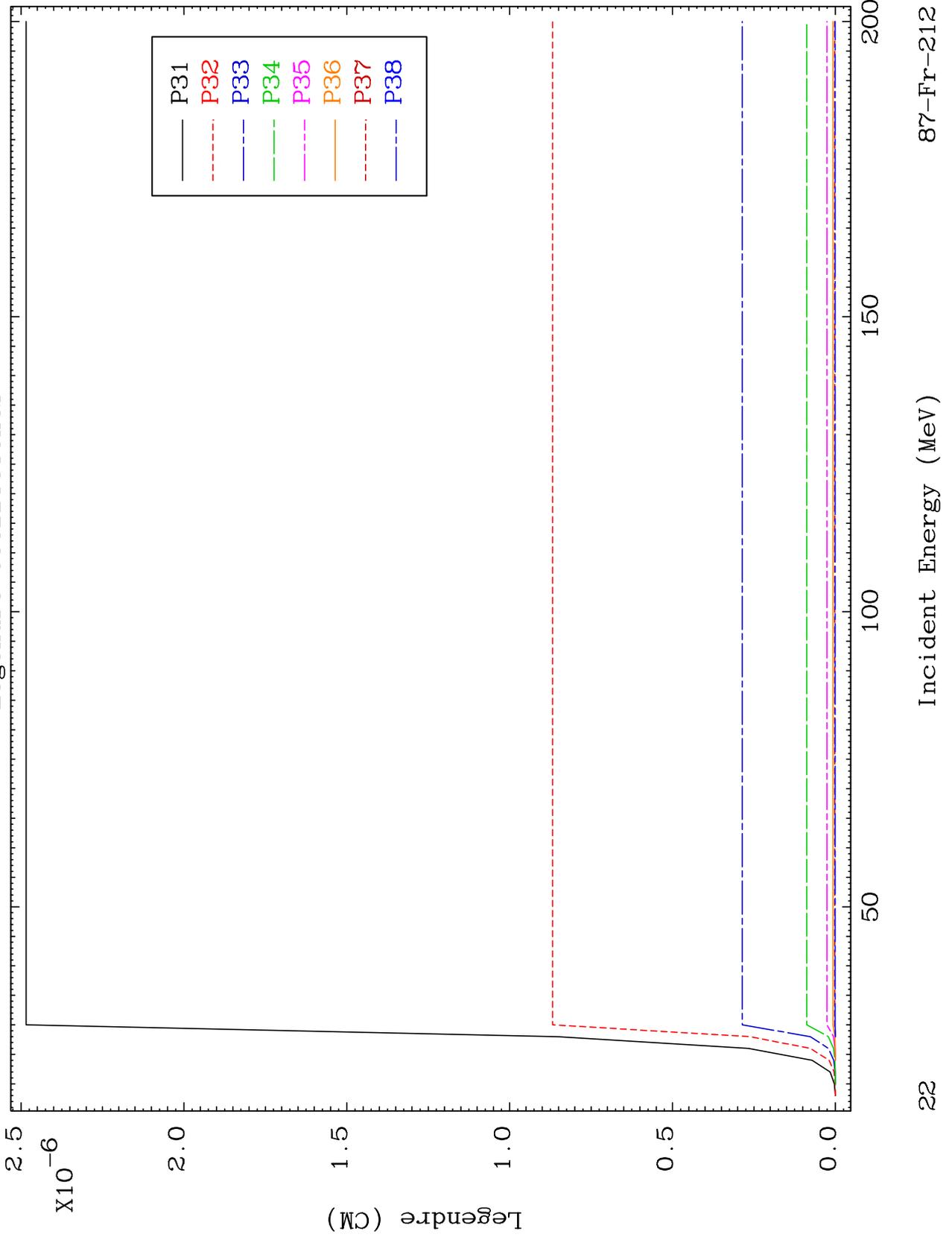
20

MAT 8725

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

87-Fr-212

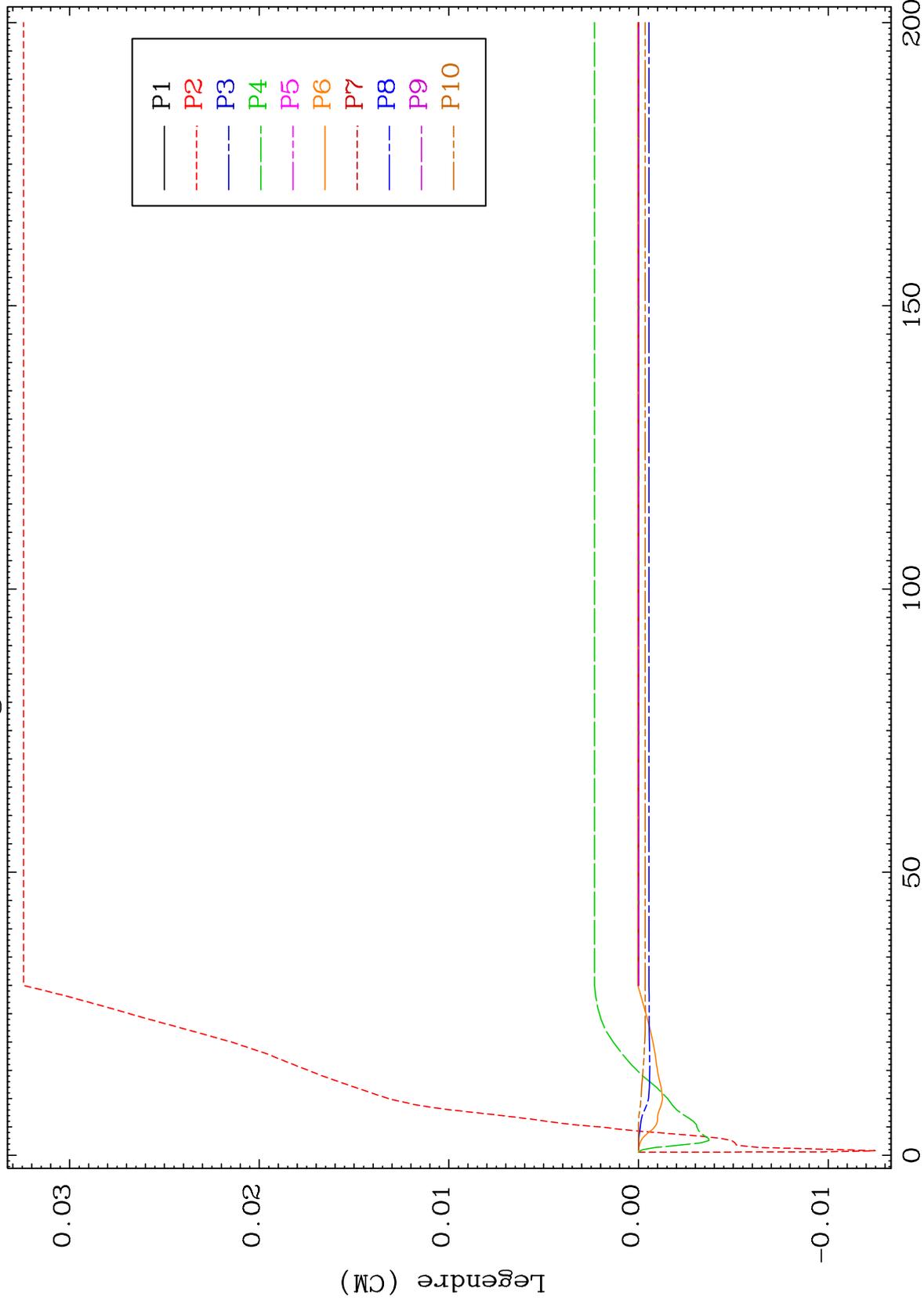




MAT 8725

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

87-Fr-212



23

Incident Energy (MeV)

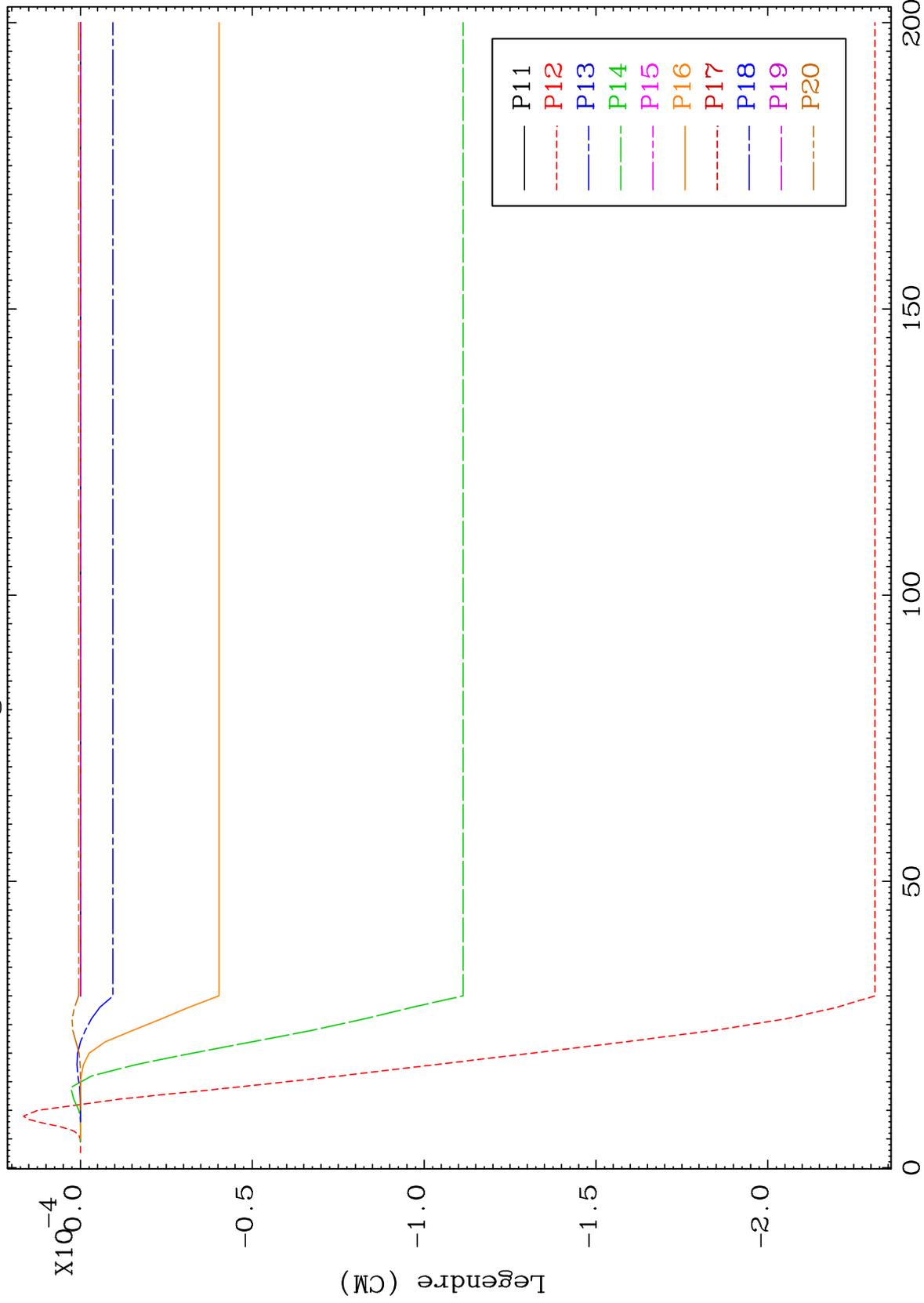
87-Fr-212

MAT 8725

MT= 52 (n,n') Level

87-Fr-212

Legendre Coefficients



24

Incident Energy (MeV)

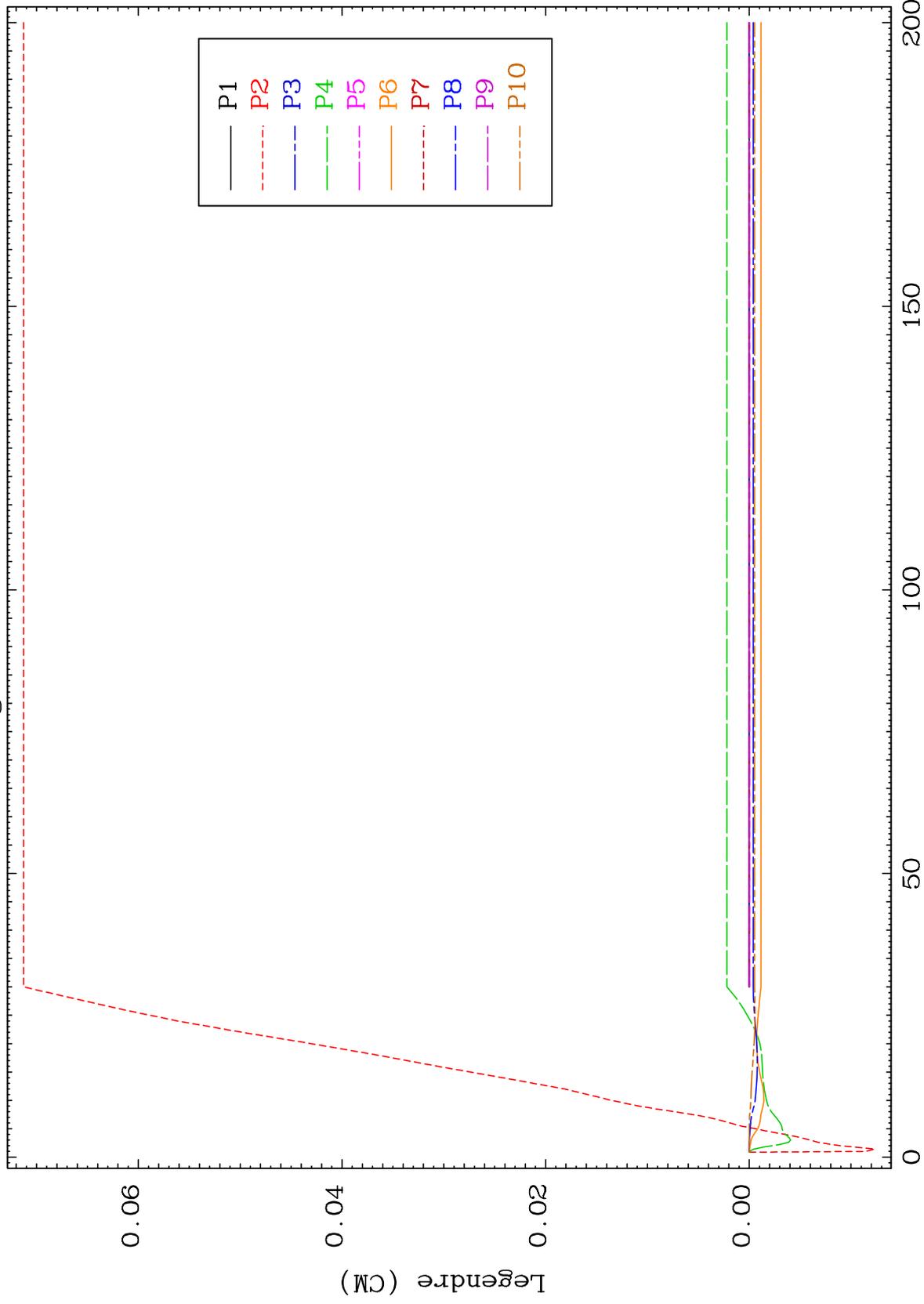
87-Fr-212



MAT 8725

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

87-Fr-212



26

Incident Energy (MeV)

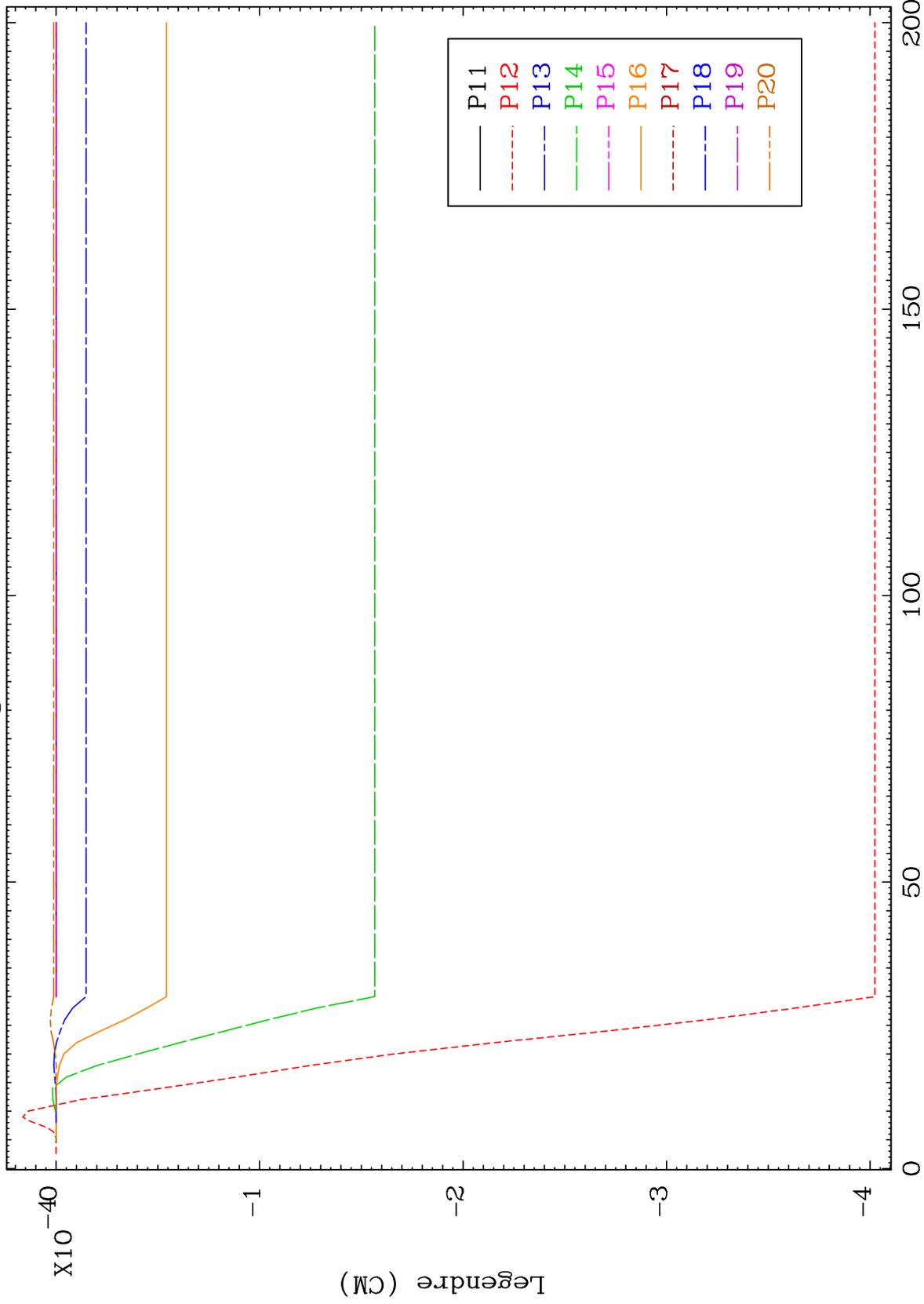
87-Fr-212

MAT 8725

MT= 53 (n,n') Level

87-Fr-212

Legendre Coefficients



27

Incident Energy (MeV)

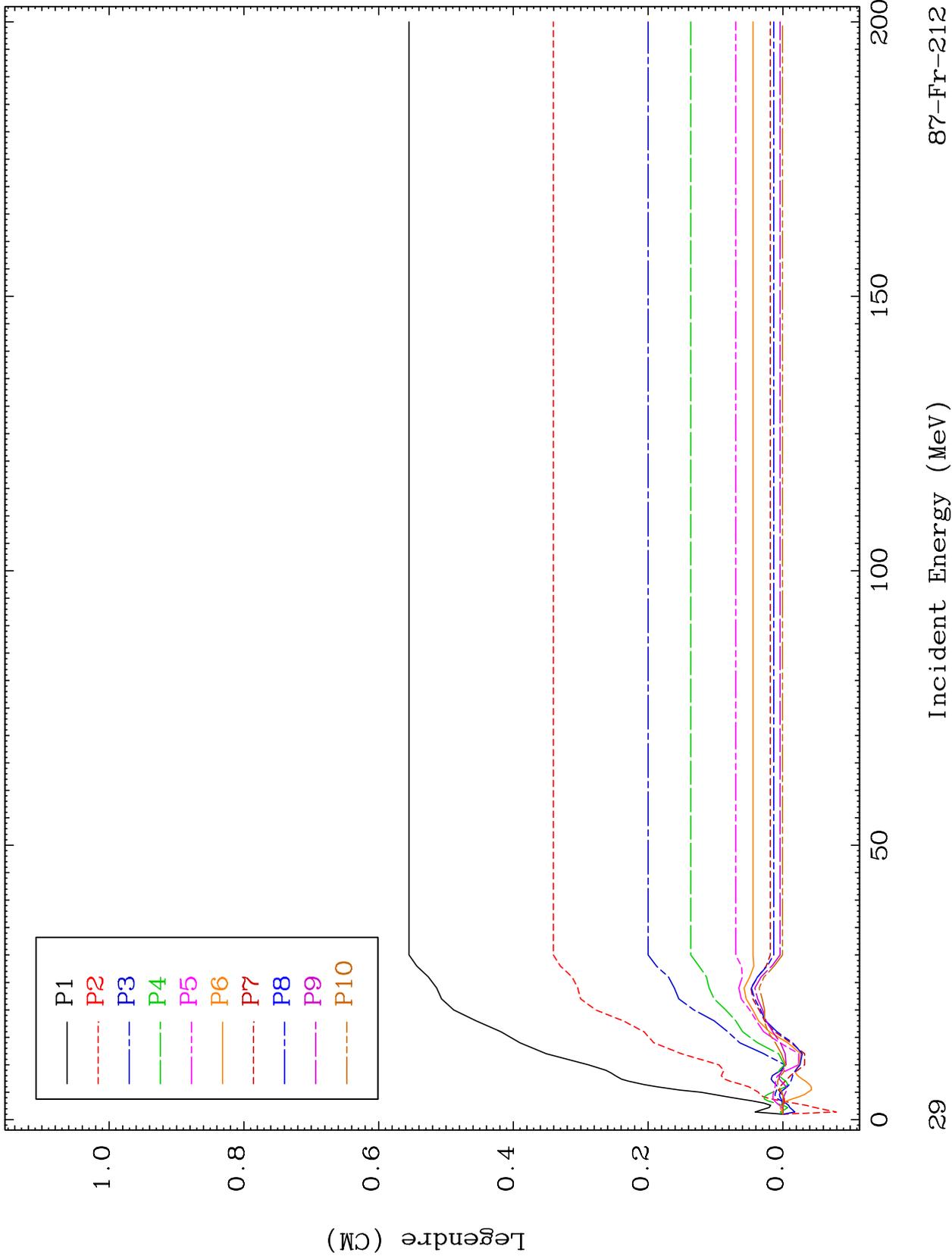
87-Fr-212



MAT 8725

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

87-Fr-212



29

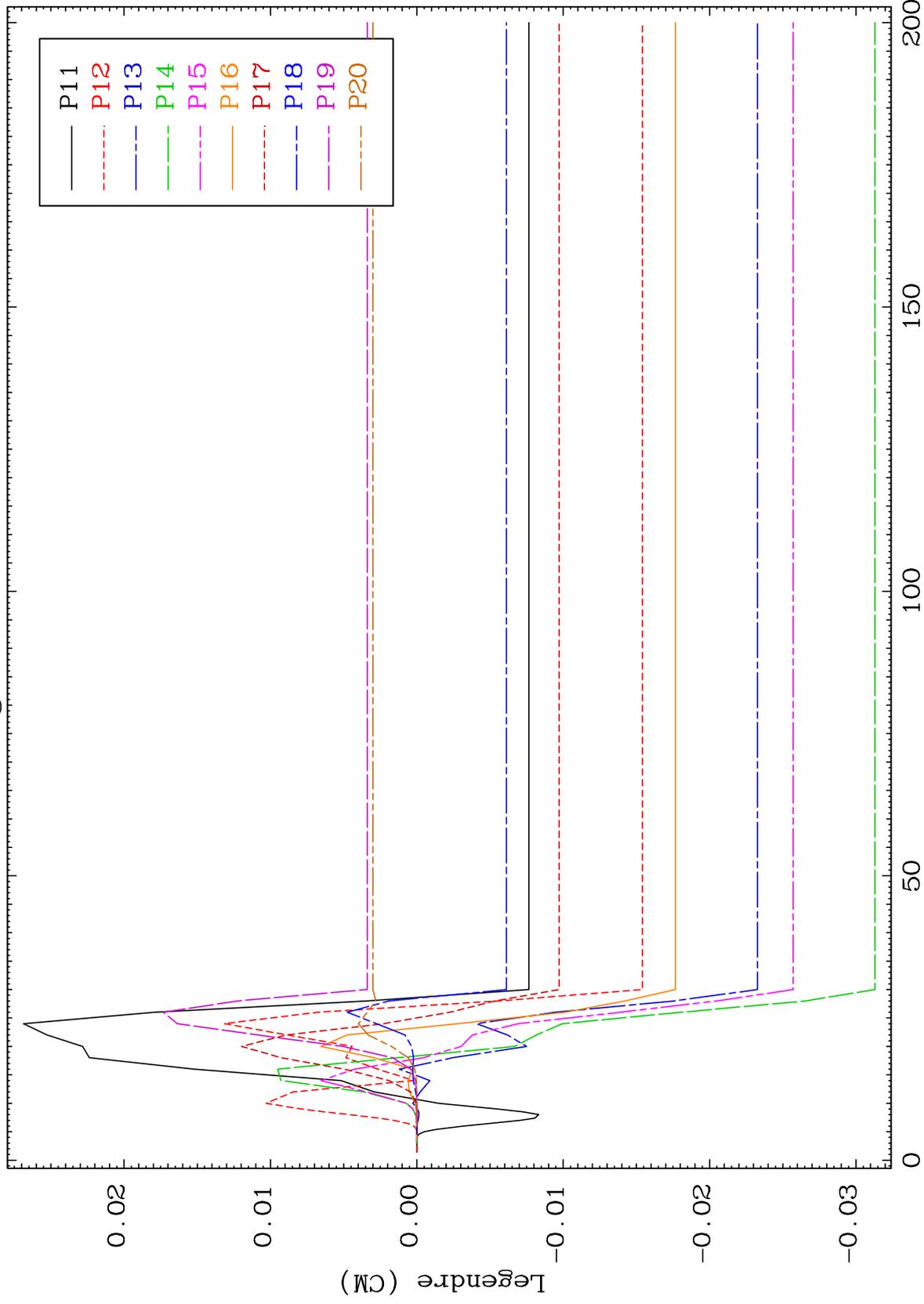
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

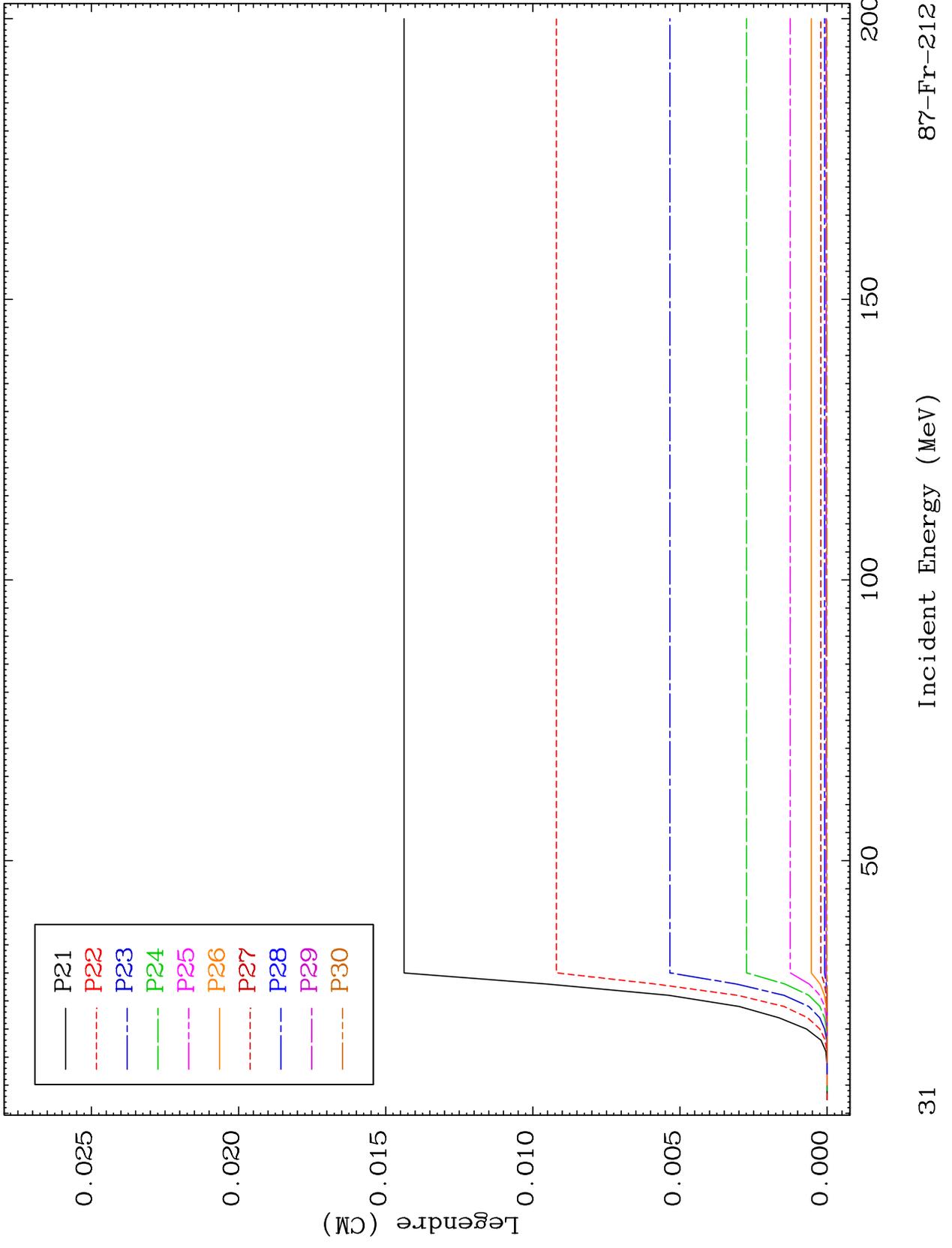
87-Fr-212



87-Fr-212

Incident Energy (MeV)

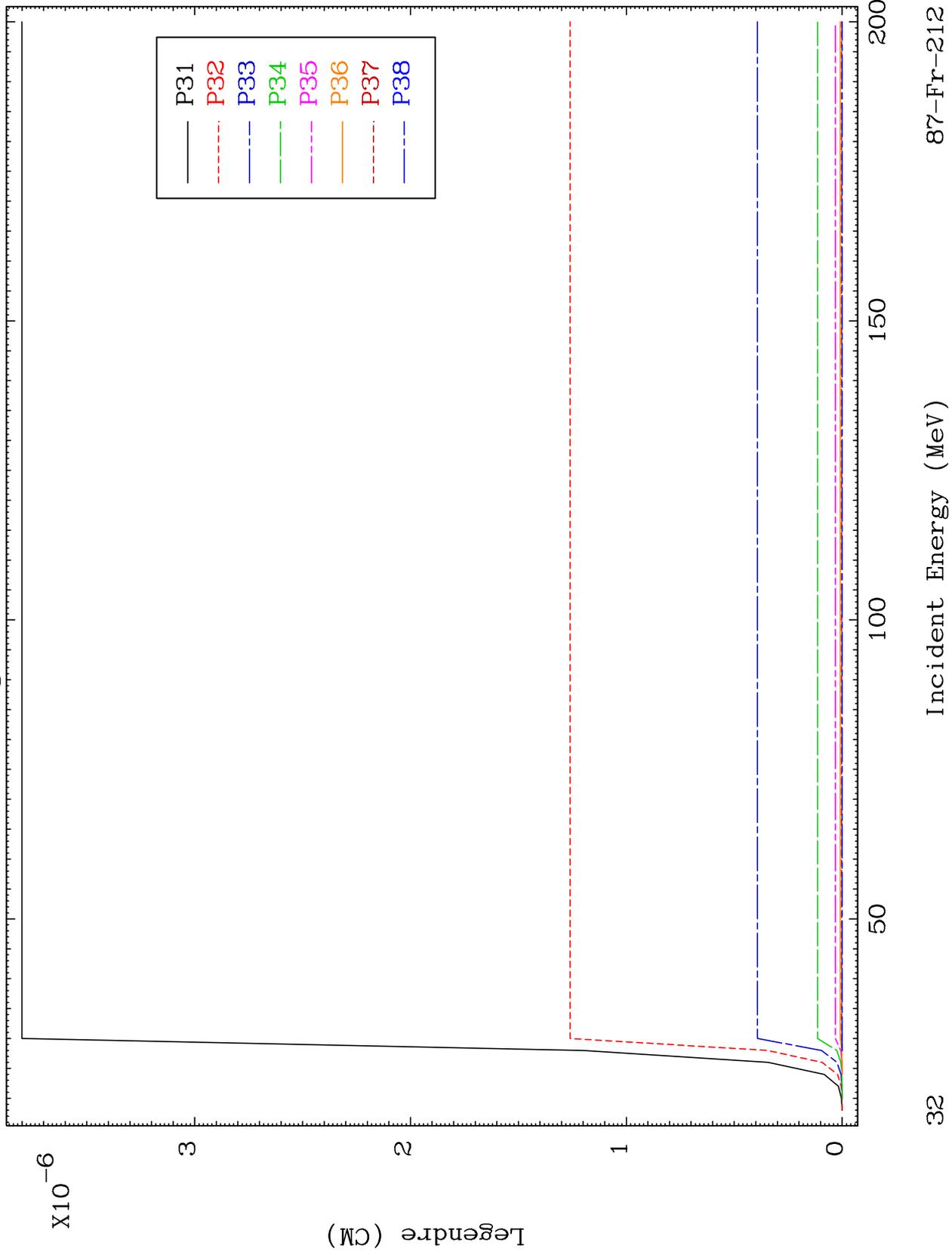
30



MAT 8725

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

87-Fr-212

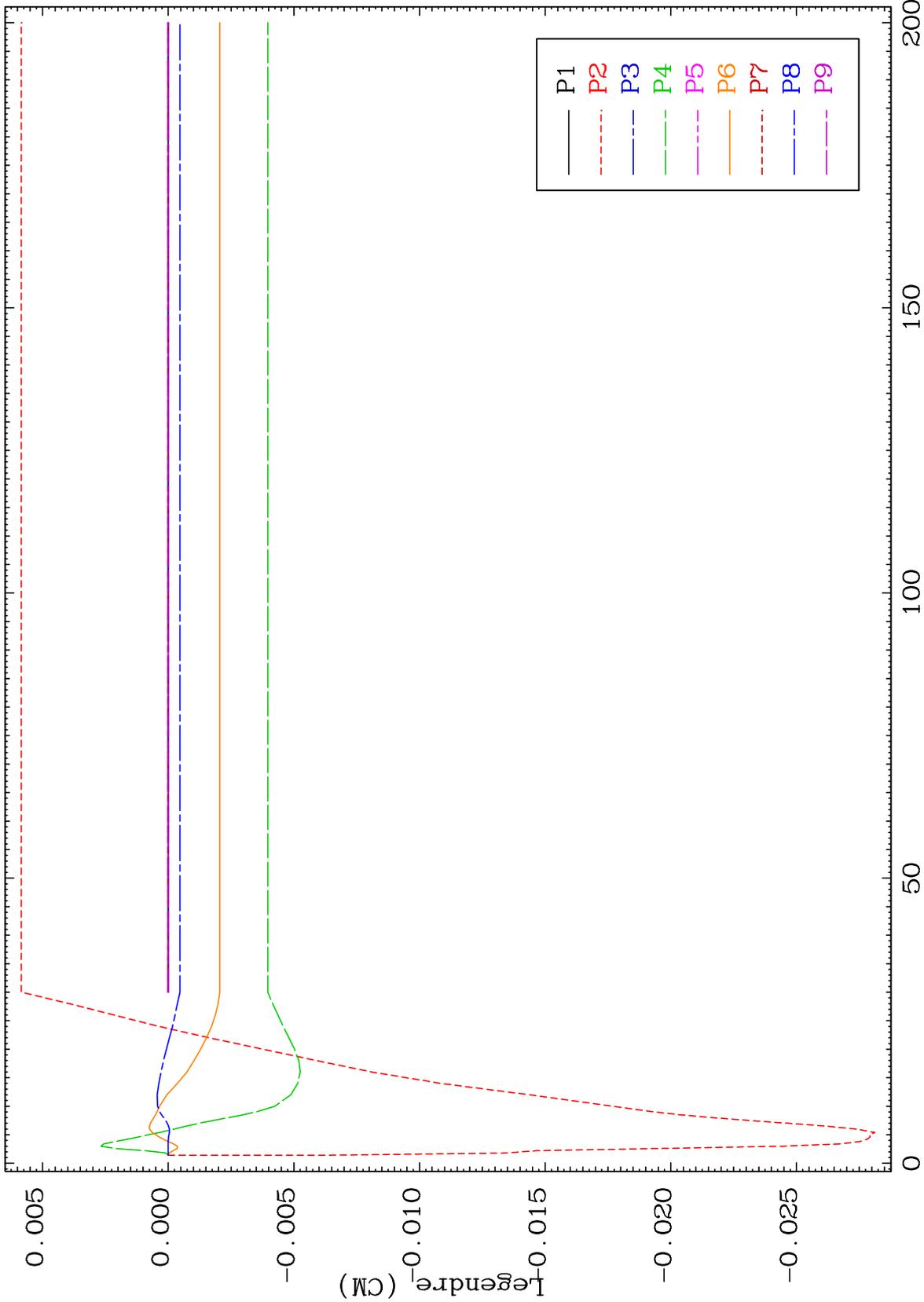


87-Fr-212

MAT 8725

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

87-Fr-212

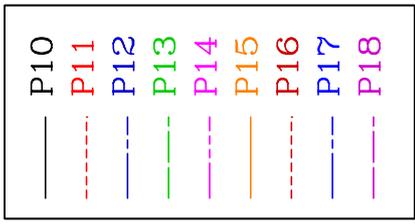


MAT 8725

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

87-Fr-212

$\times 10^{-4}$   
2.5  
2.0  
1.5  
1.0  
0.5  
0.0



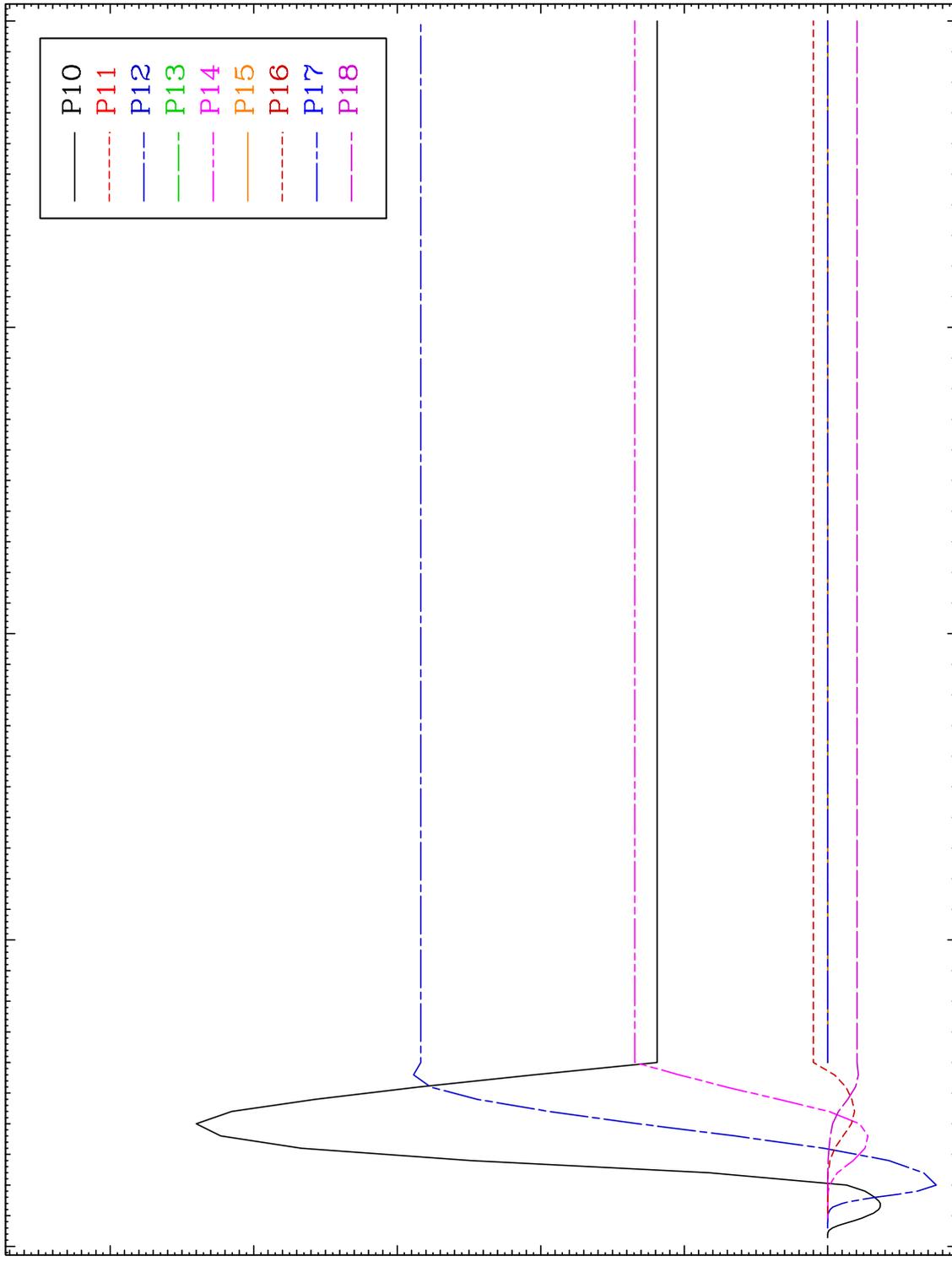
Legendre (CM)

0 50 100 150 200

34

Incident Energy (MeV)

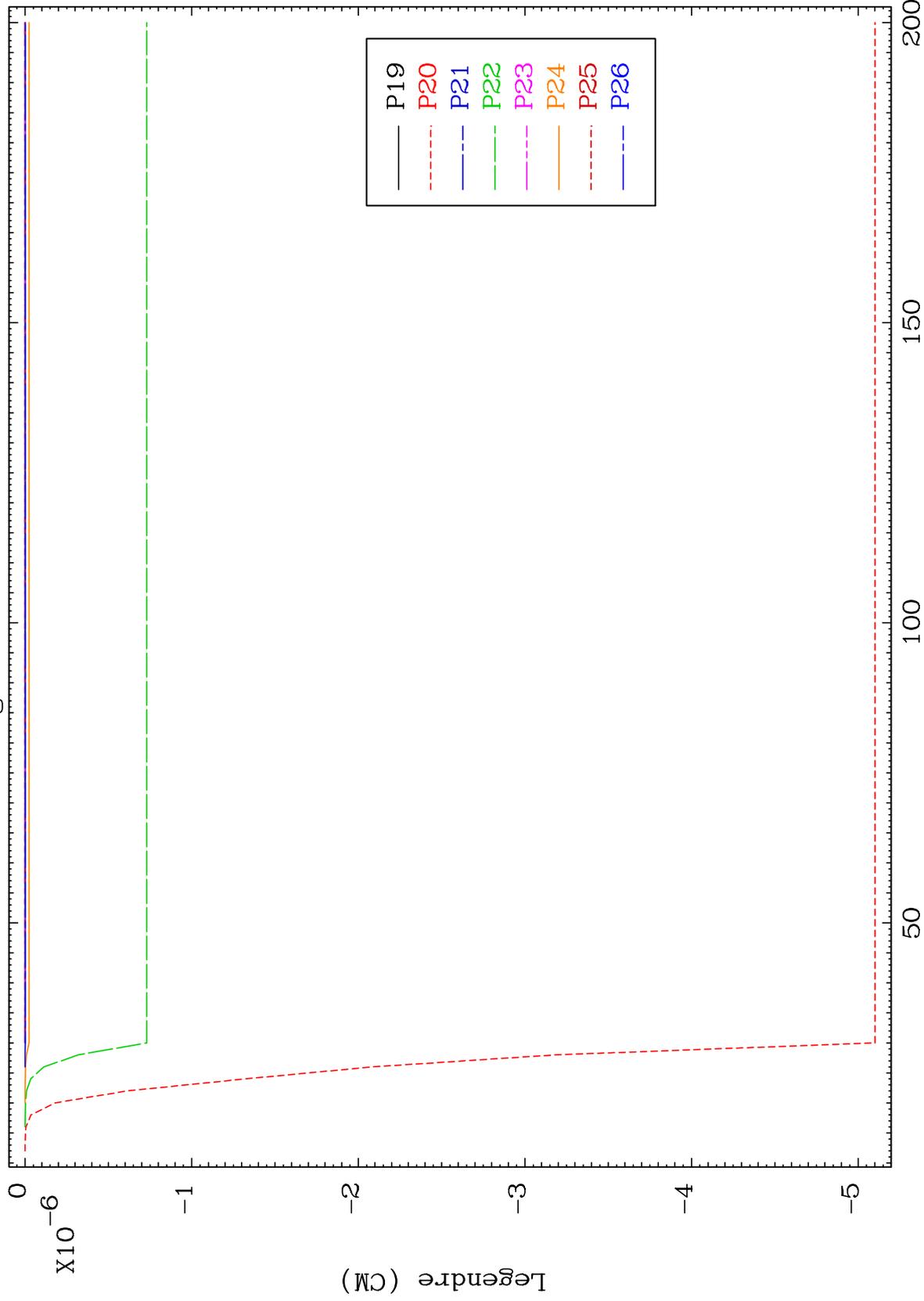
87-Fr-212



MAT 8725

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

87-Fr-212



35

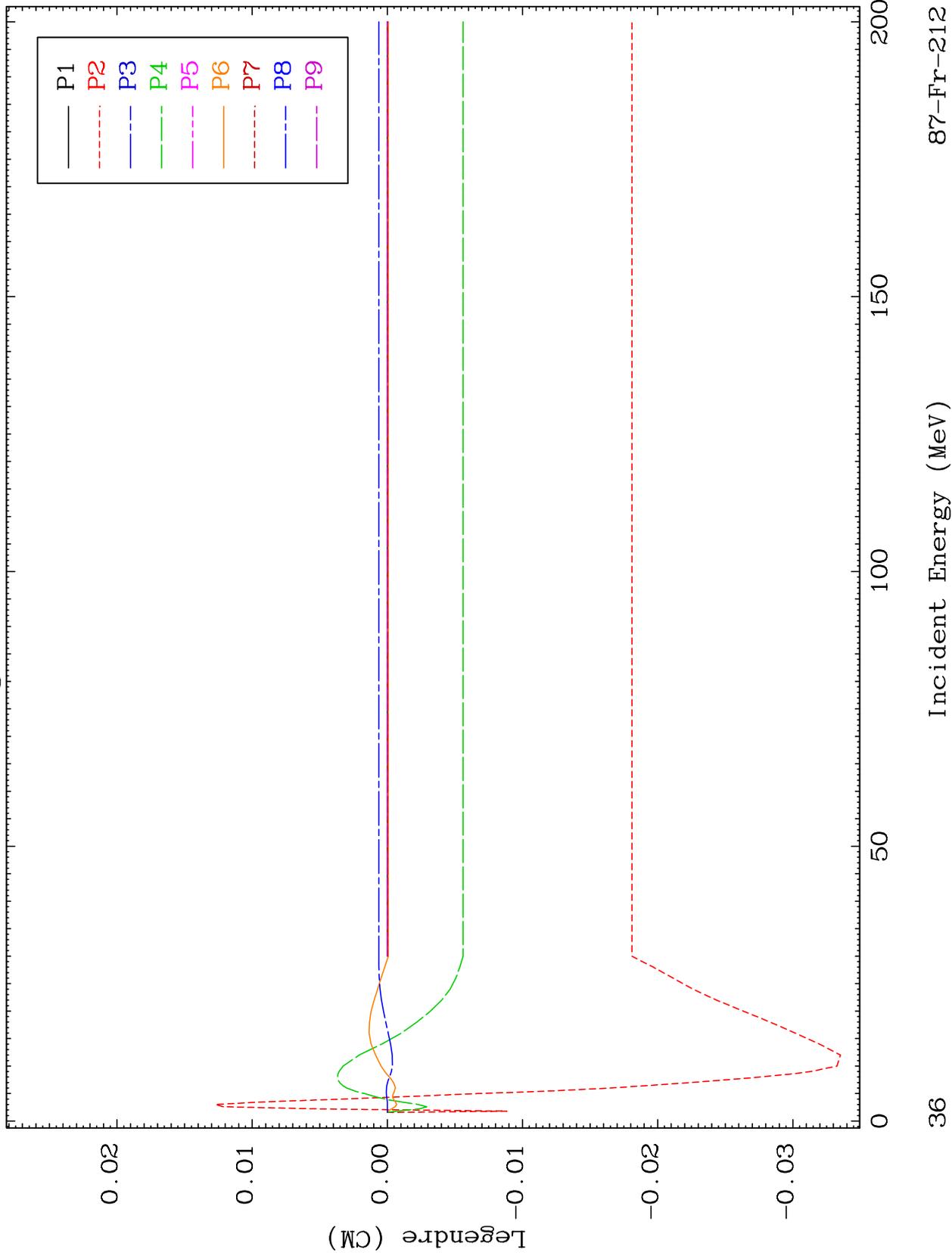
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

87-Fr-212



87-Fr-212

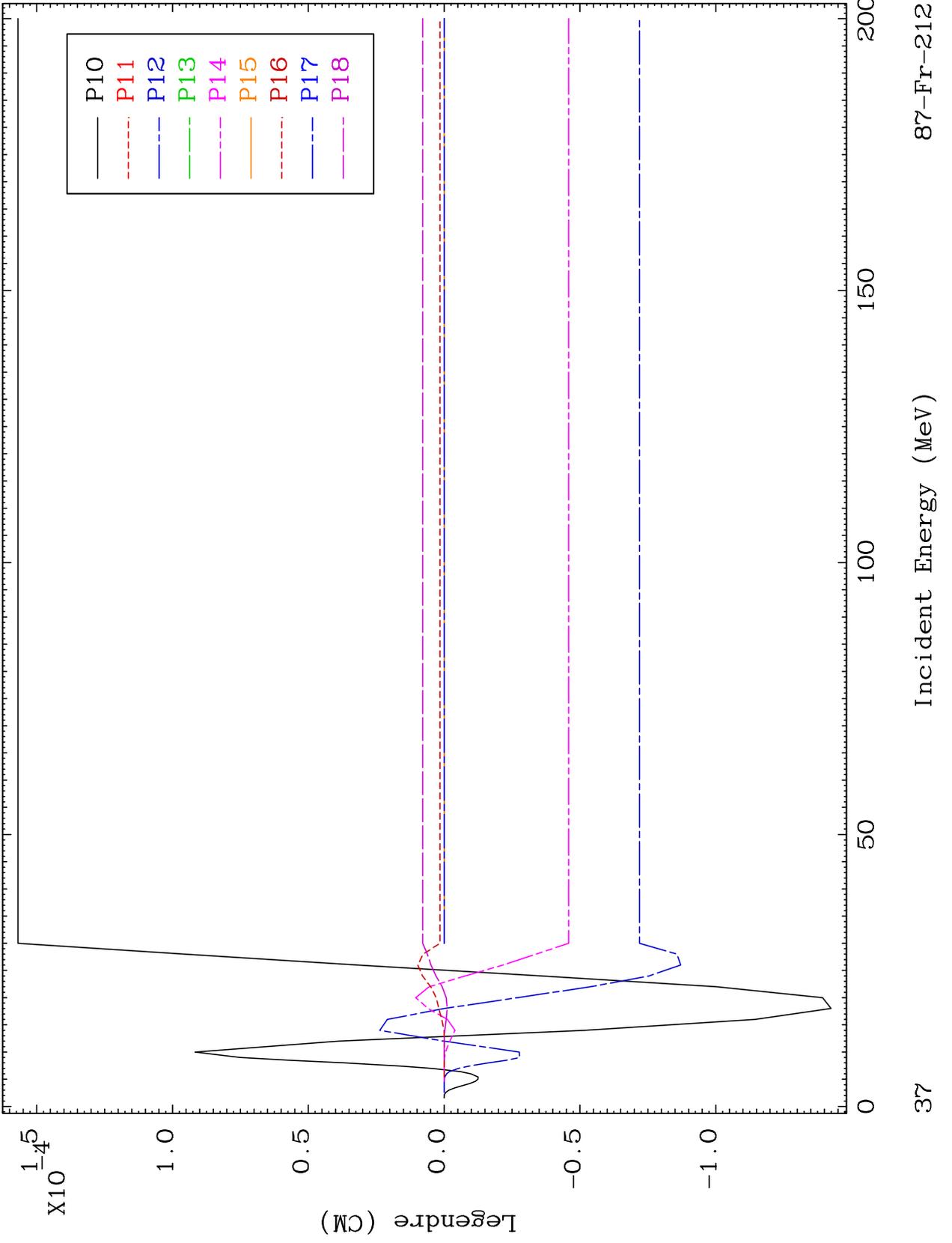
Incident Energy (MeV)

36

MAT 8725

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

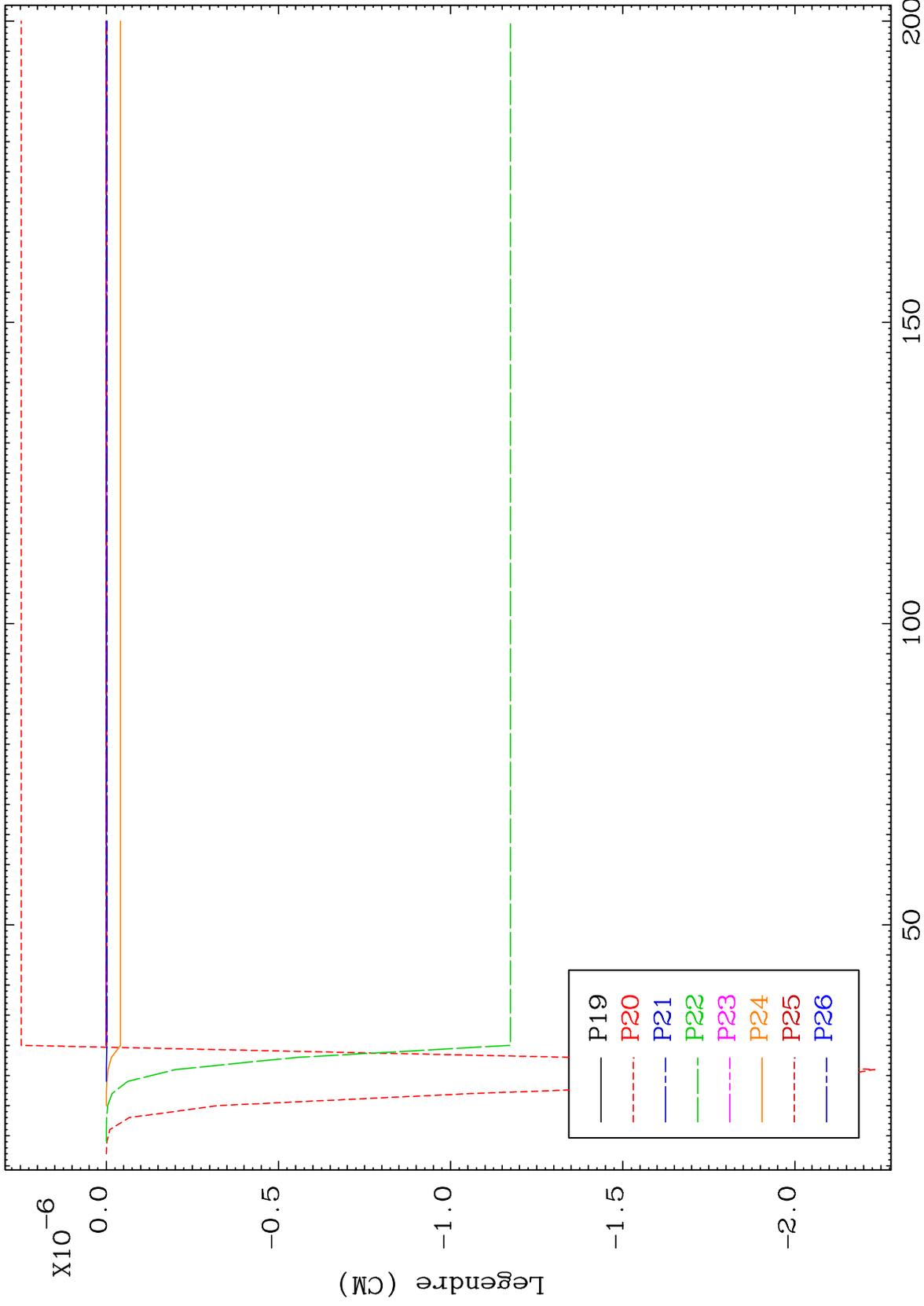
87-Fr-212



MAT 8725

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

87-Fr-212



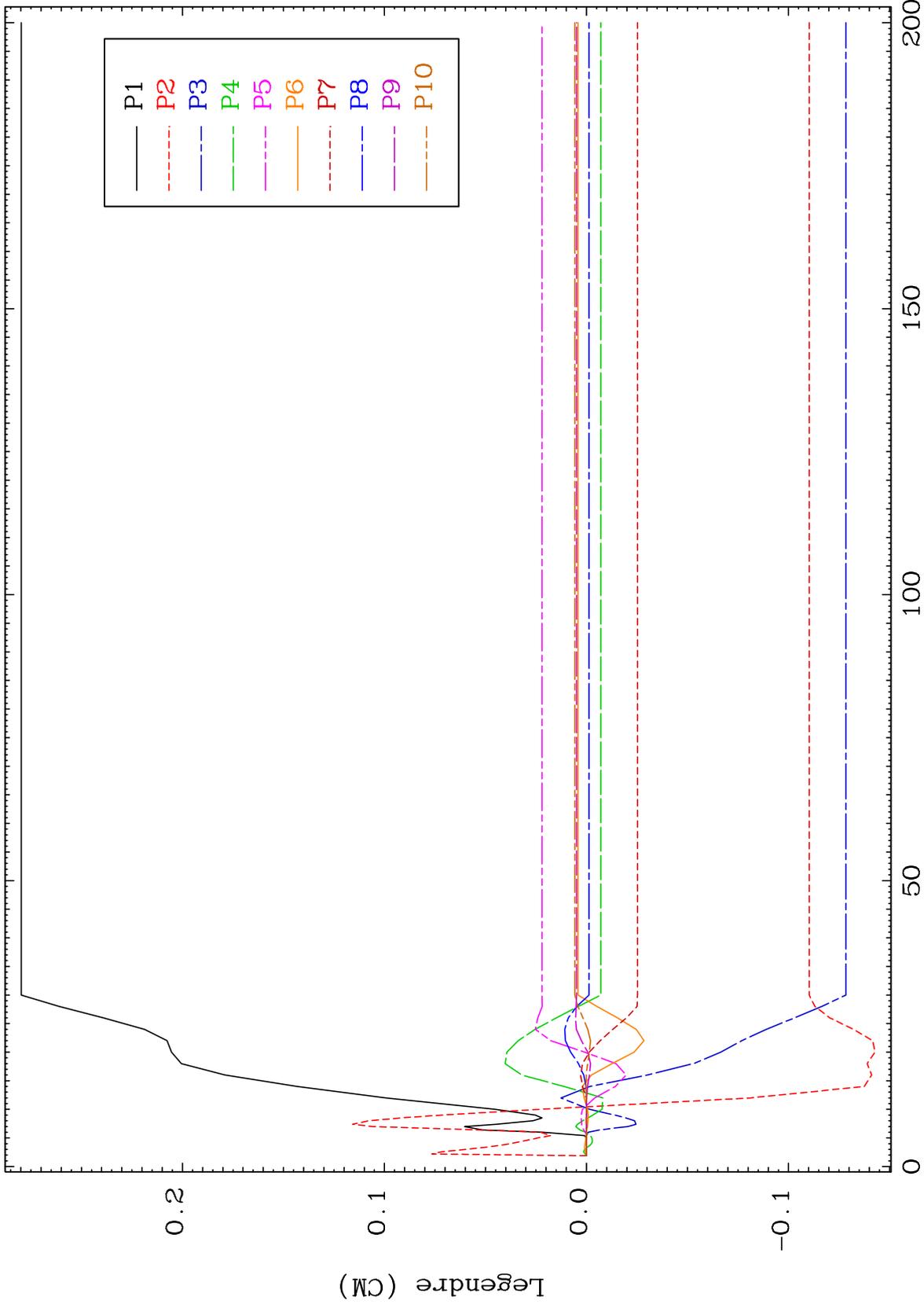
38

87-Fr-212

MAT 8725

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

87-Fr-212



39

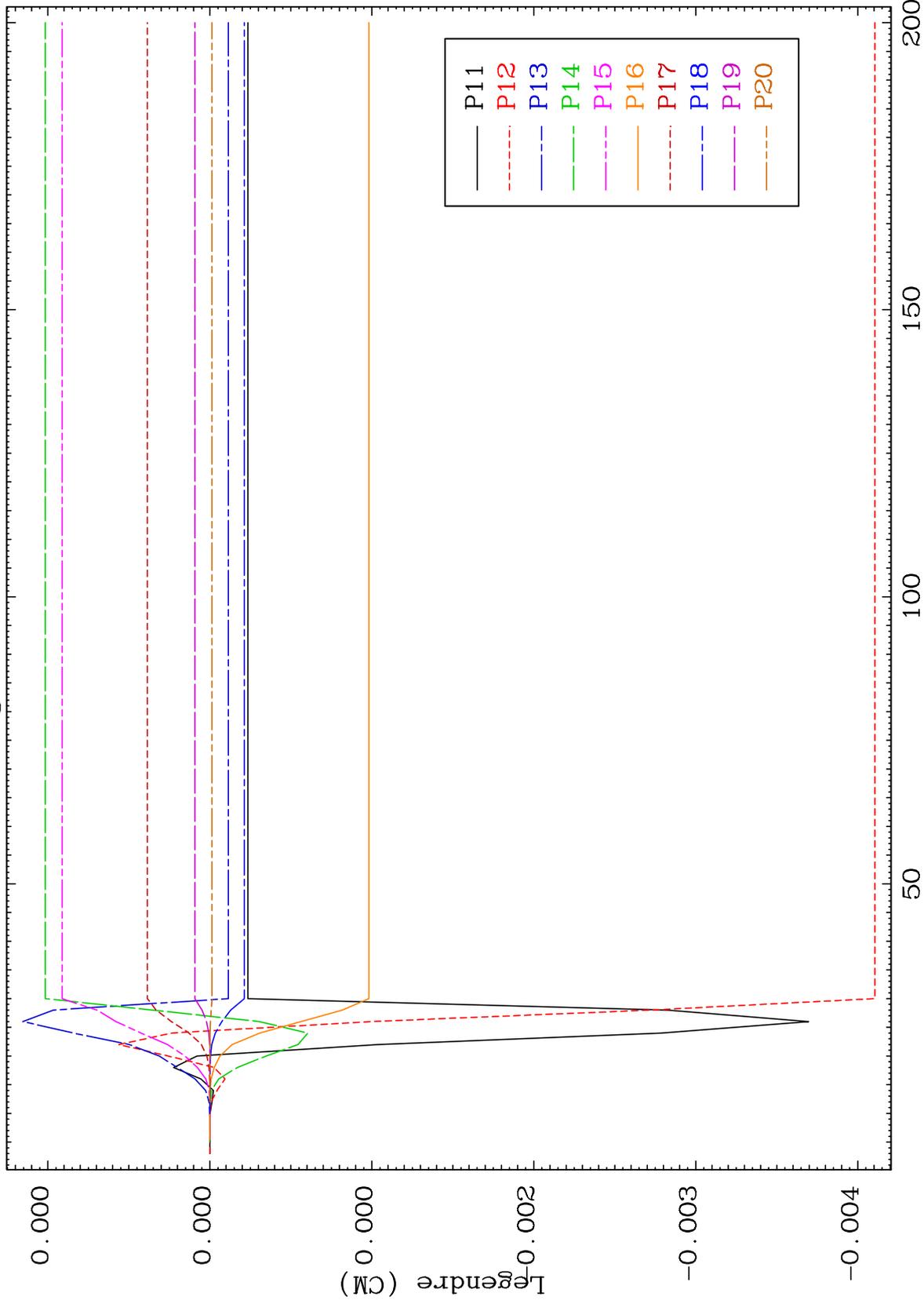
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

87-Fr-212



40

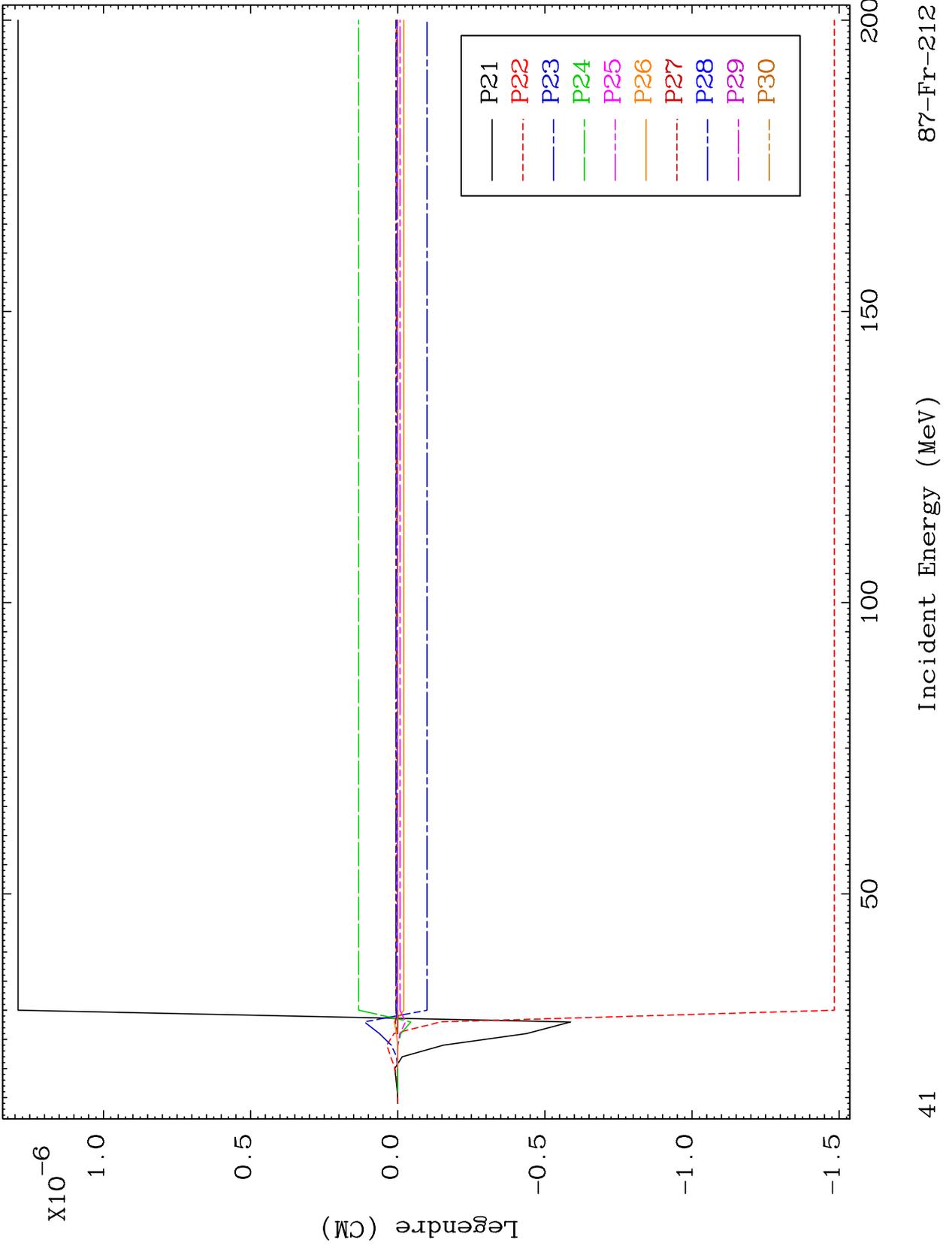
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

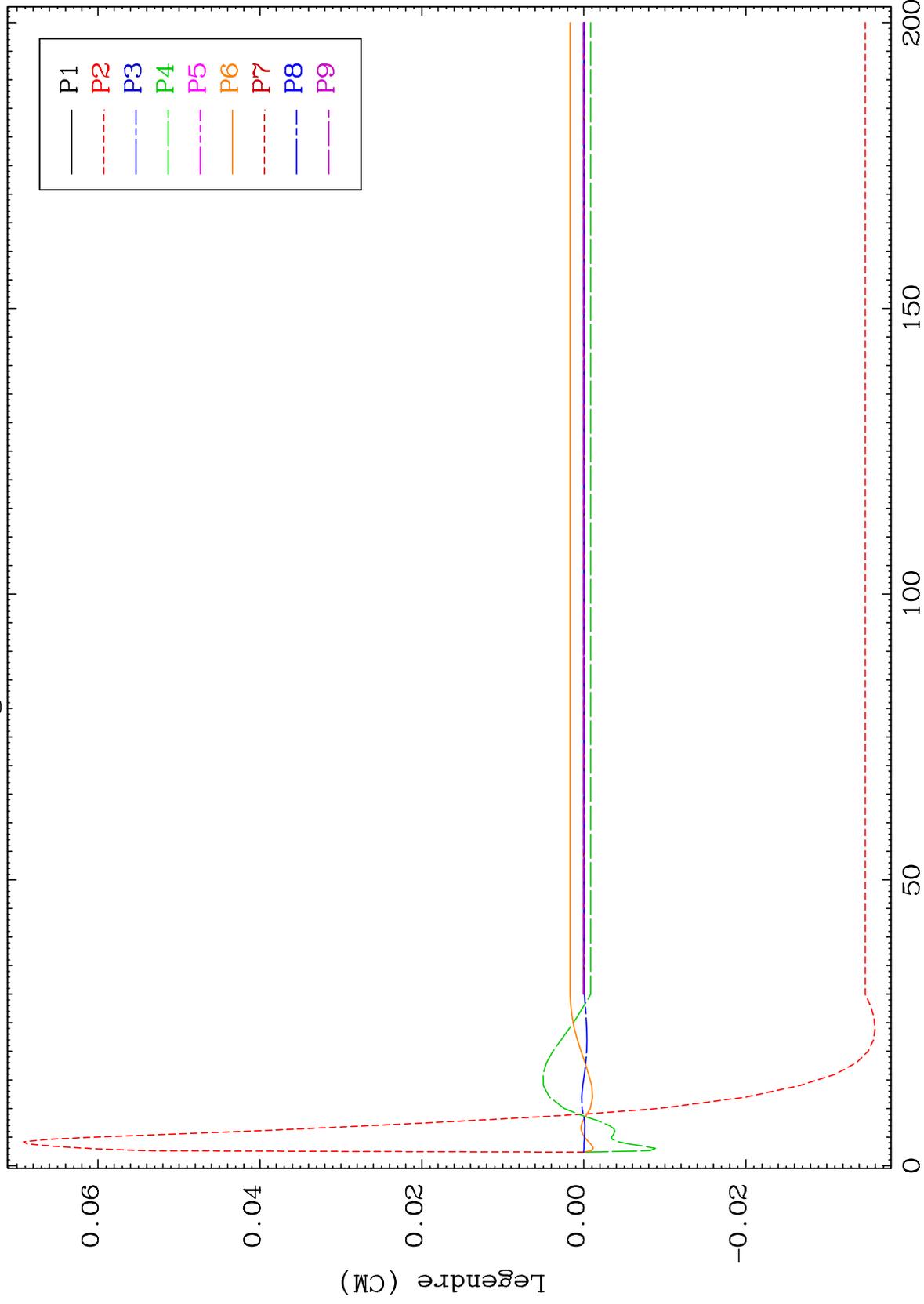
87-Fr-212



MAT 8725

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

87-Fr-212



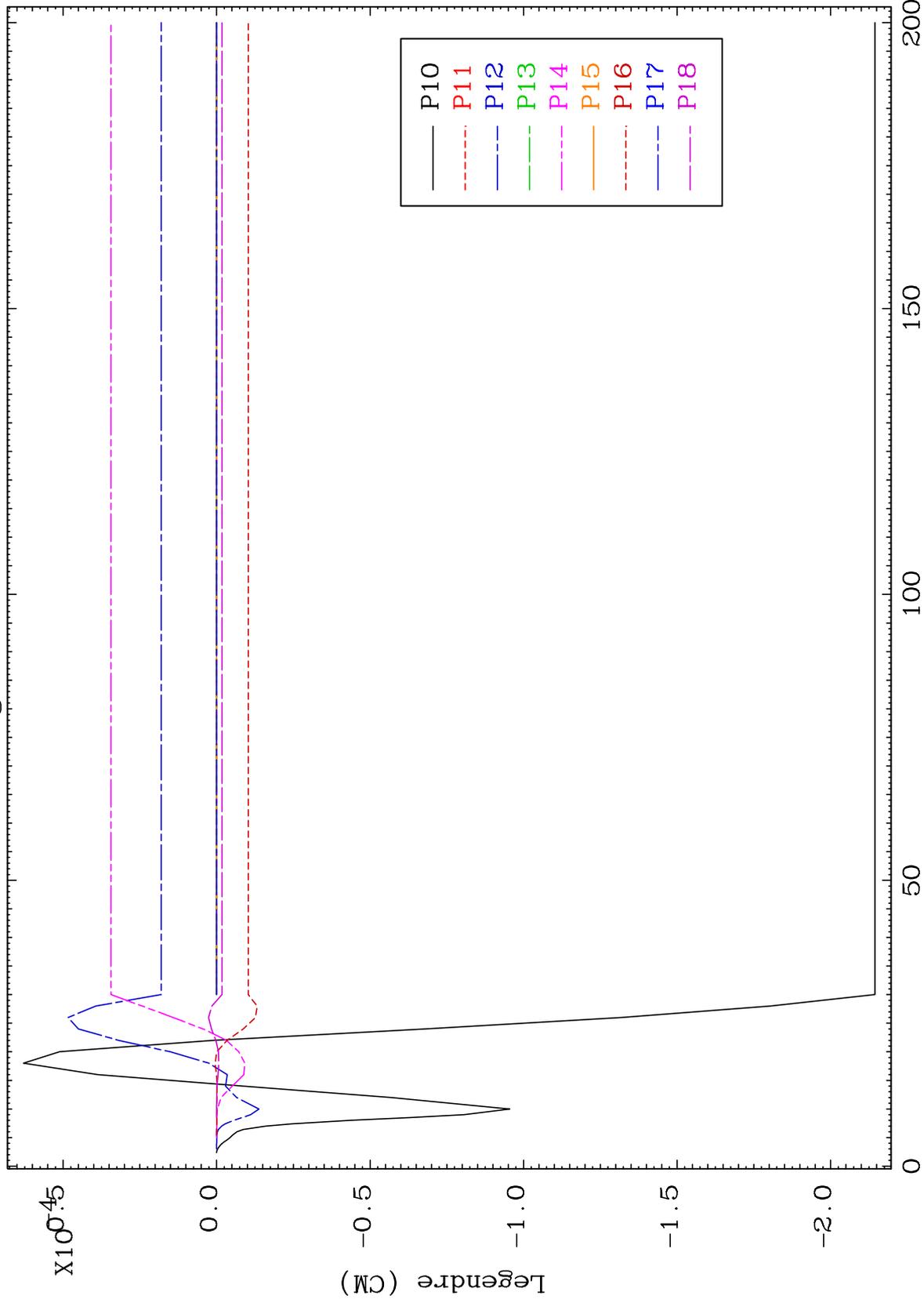
42

87-Fr-212

MAT 8725

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

87-Fr-212



43

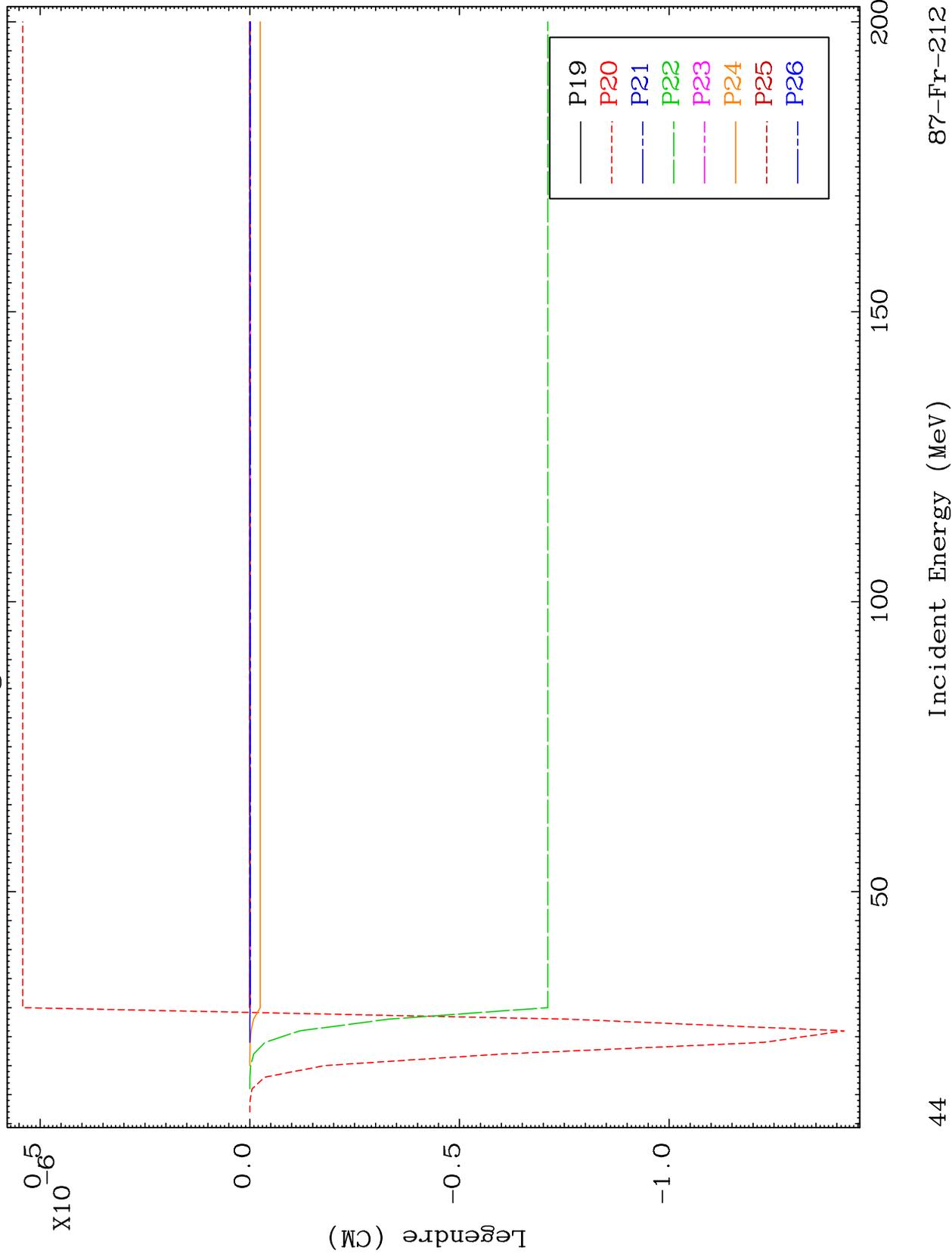
Incident Energy (MeV)

87-Fr-212

MAT 8725

87-Fr-212

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



44

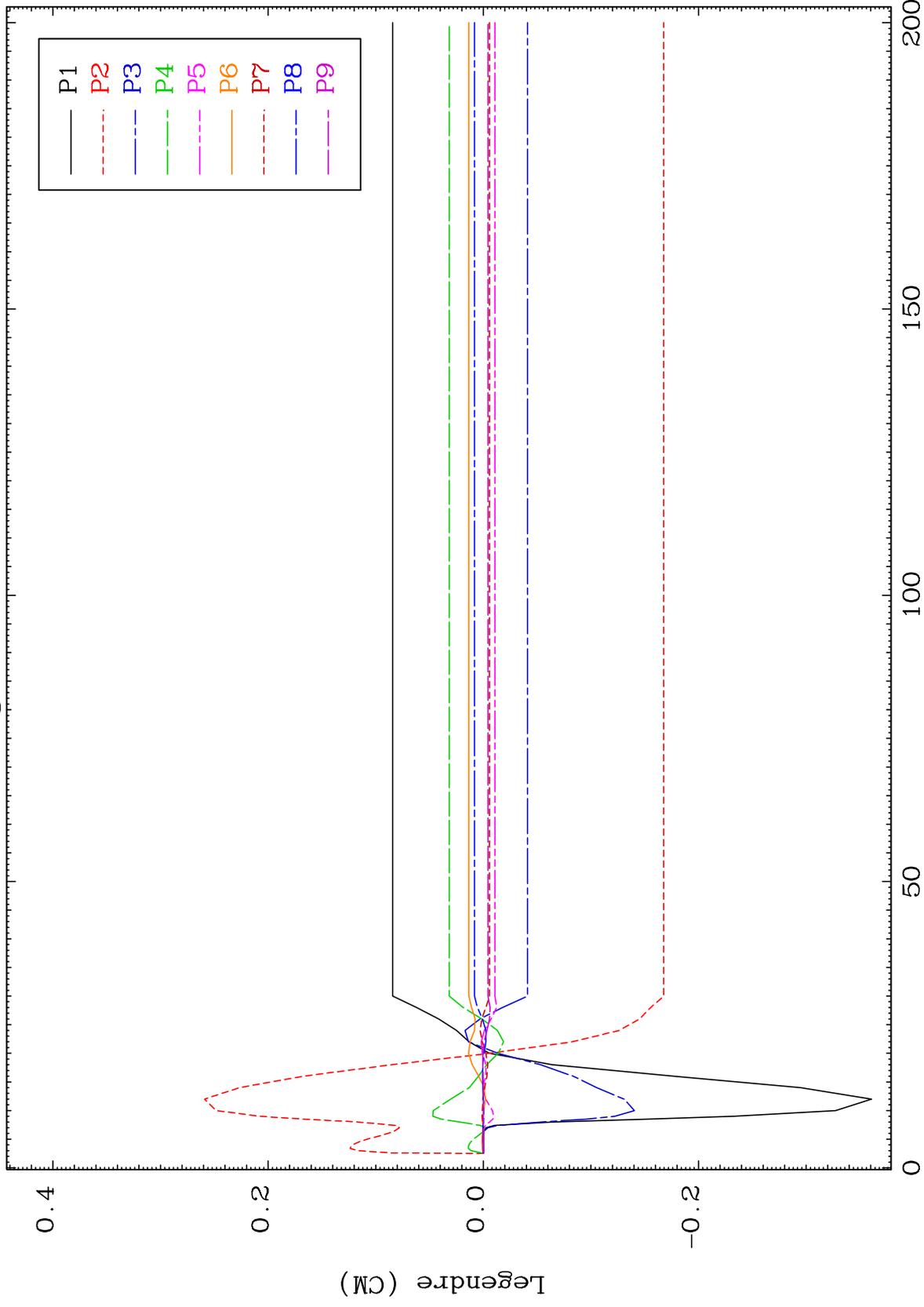
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

87-Fr-212



87-Fr-212

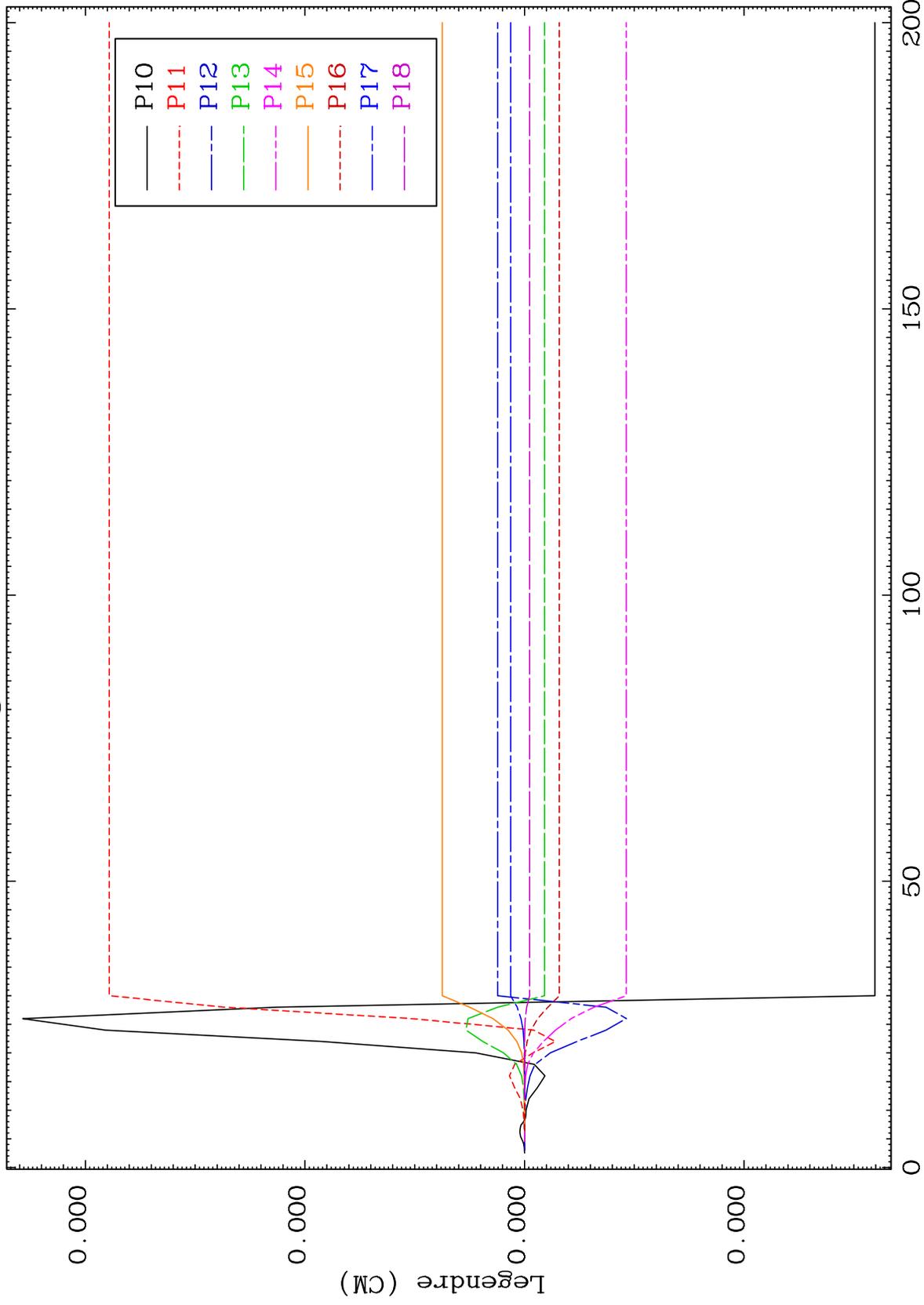
Incident Energy (MeV)

45

MAT 8725

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

87-Fr-212



46

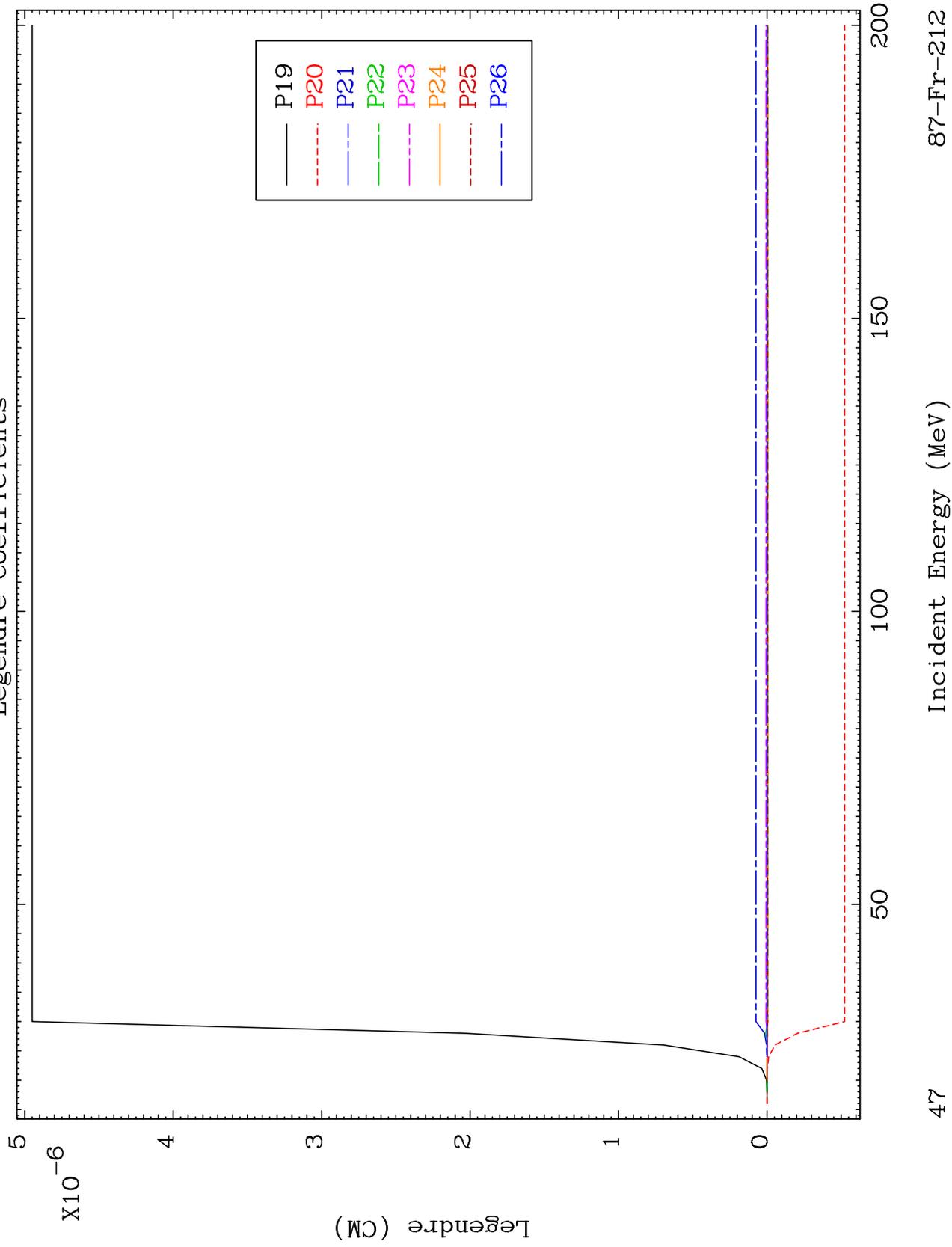
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

87-Fr-212



47

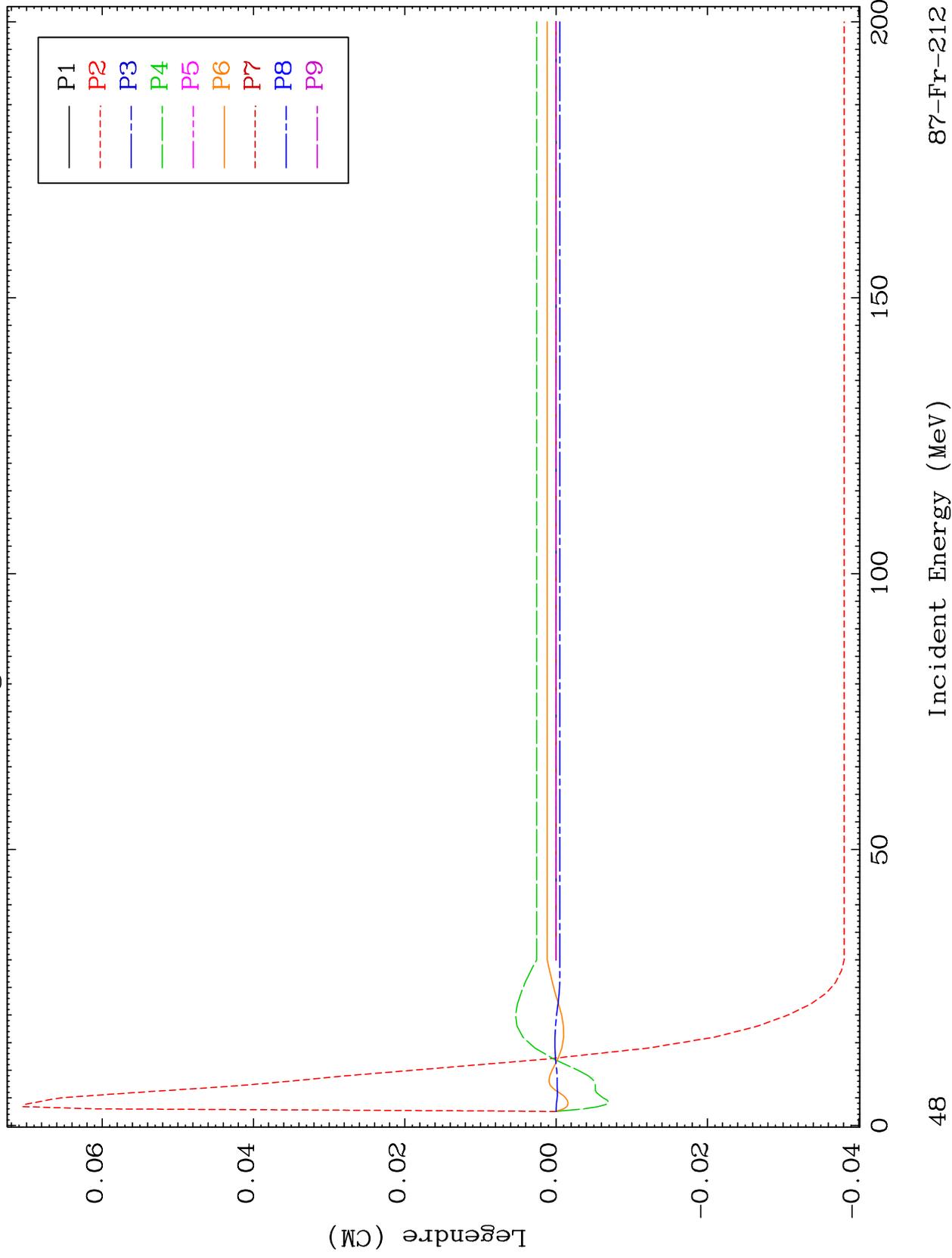
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

87-Fr-212



87-Fr-212

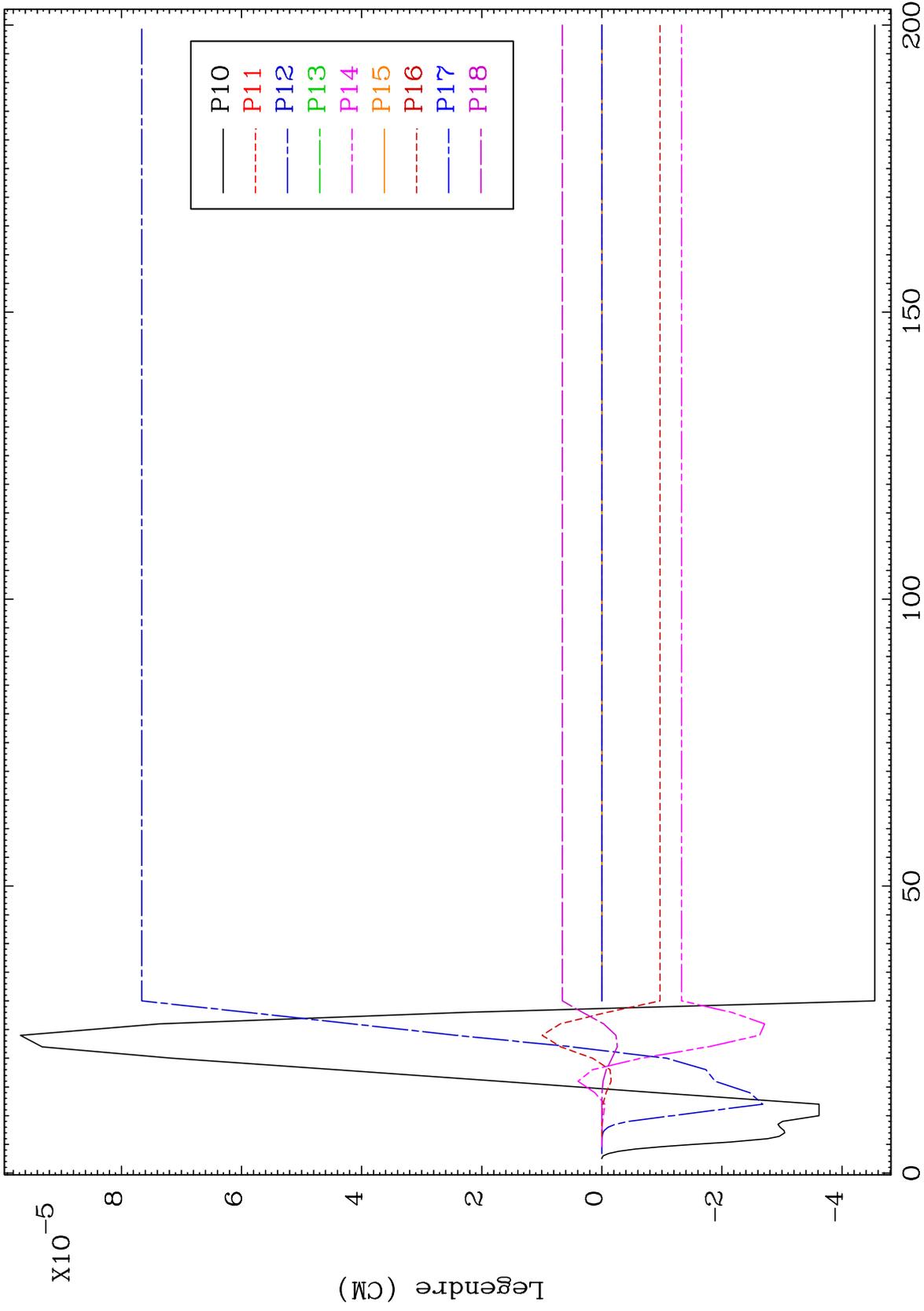
Incident Energy (MeV)

48

MAT 8725

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

87-Fr-212



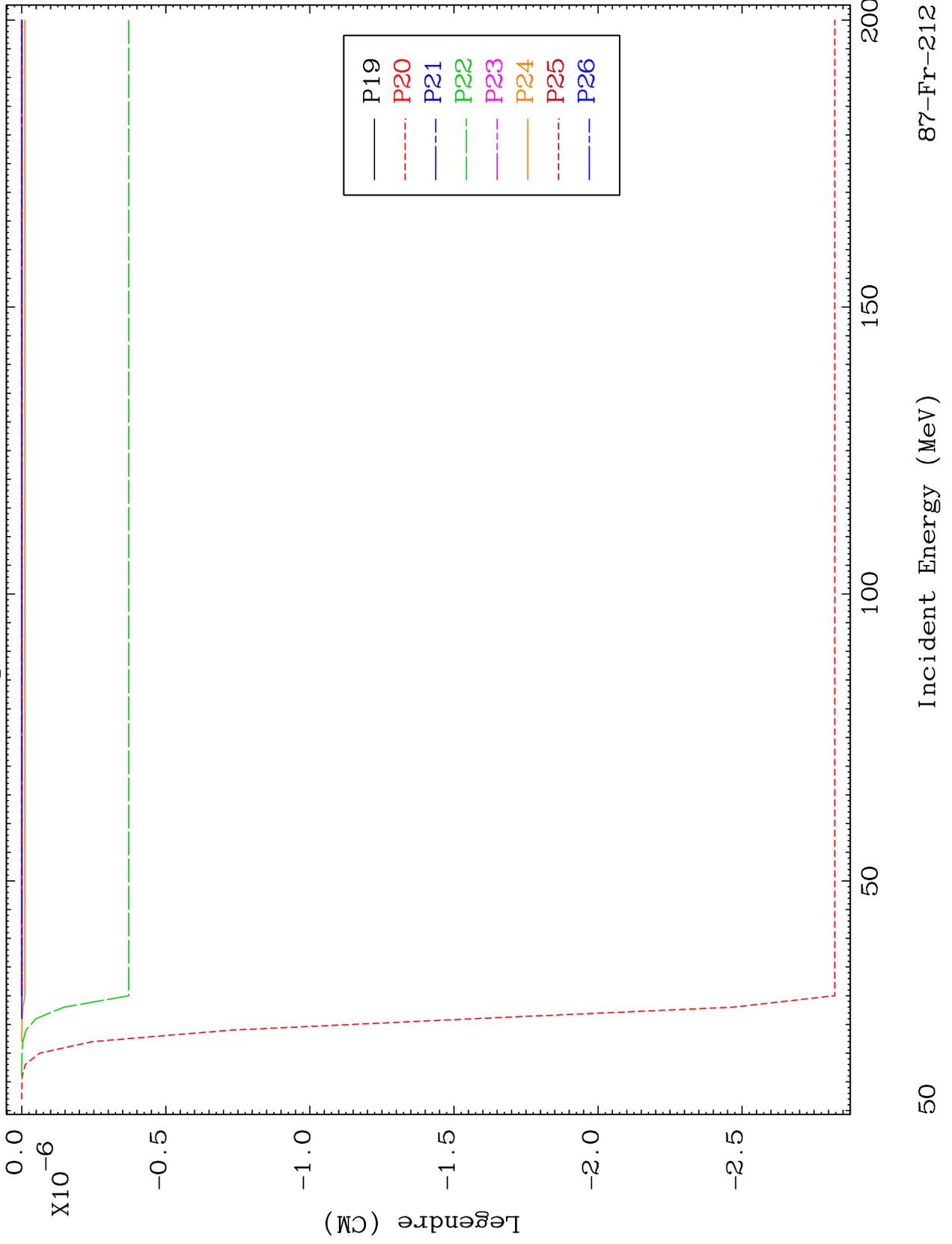
49

87-Fr-212

MAT 8725

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

87-Fr-212

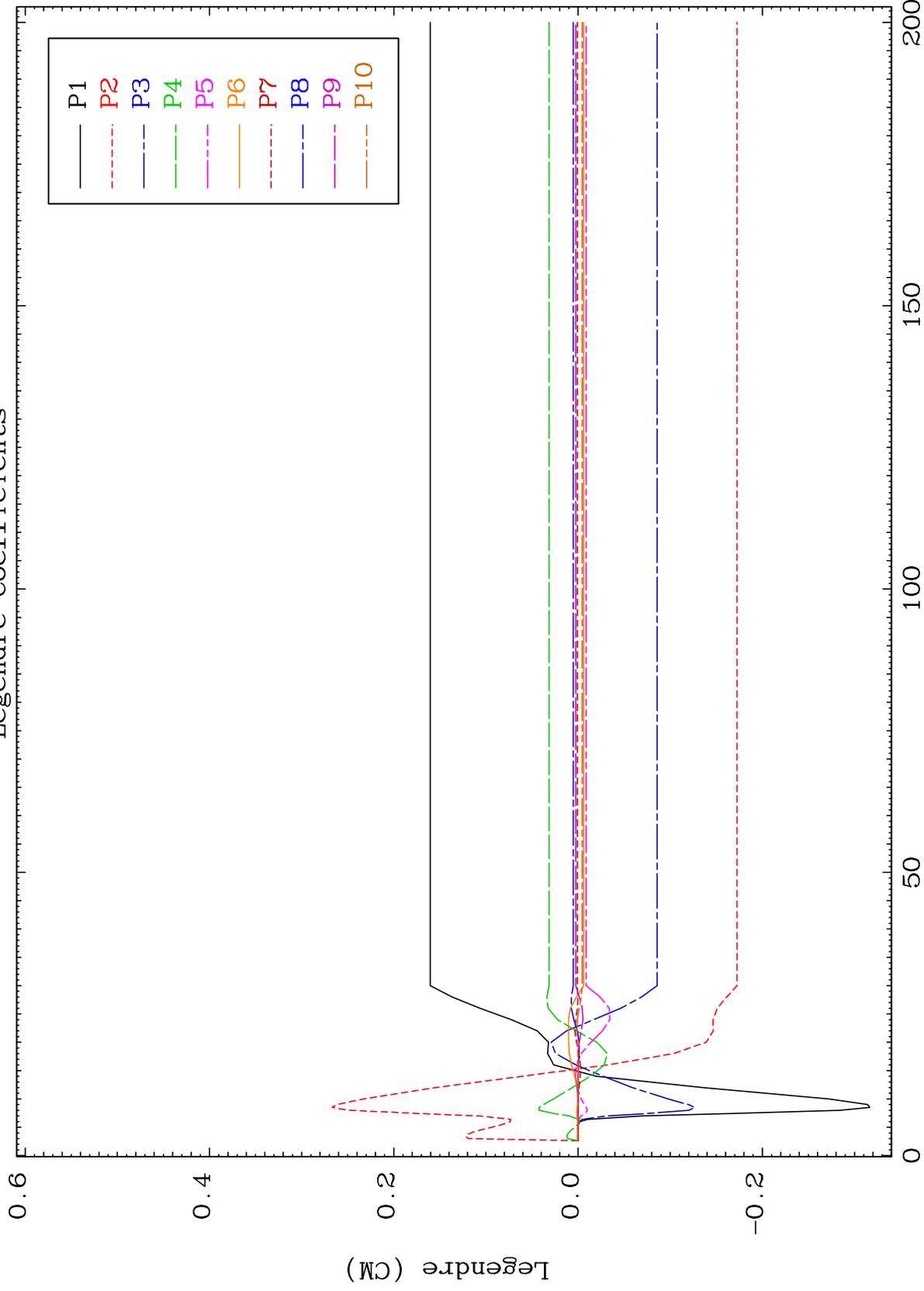


87-Fr-212

MAT 8725

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

87-Fr-212



51

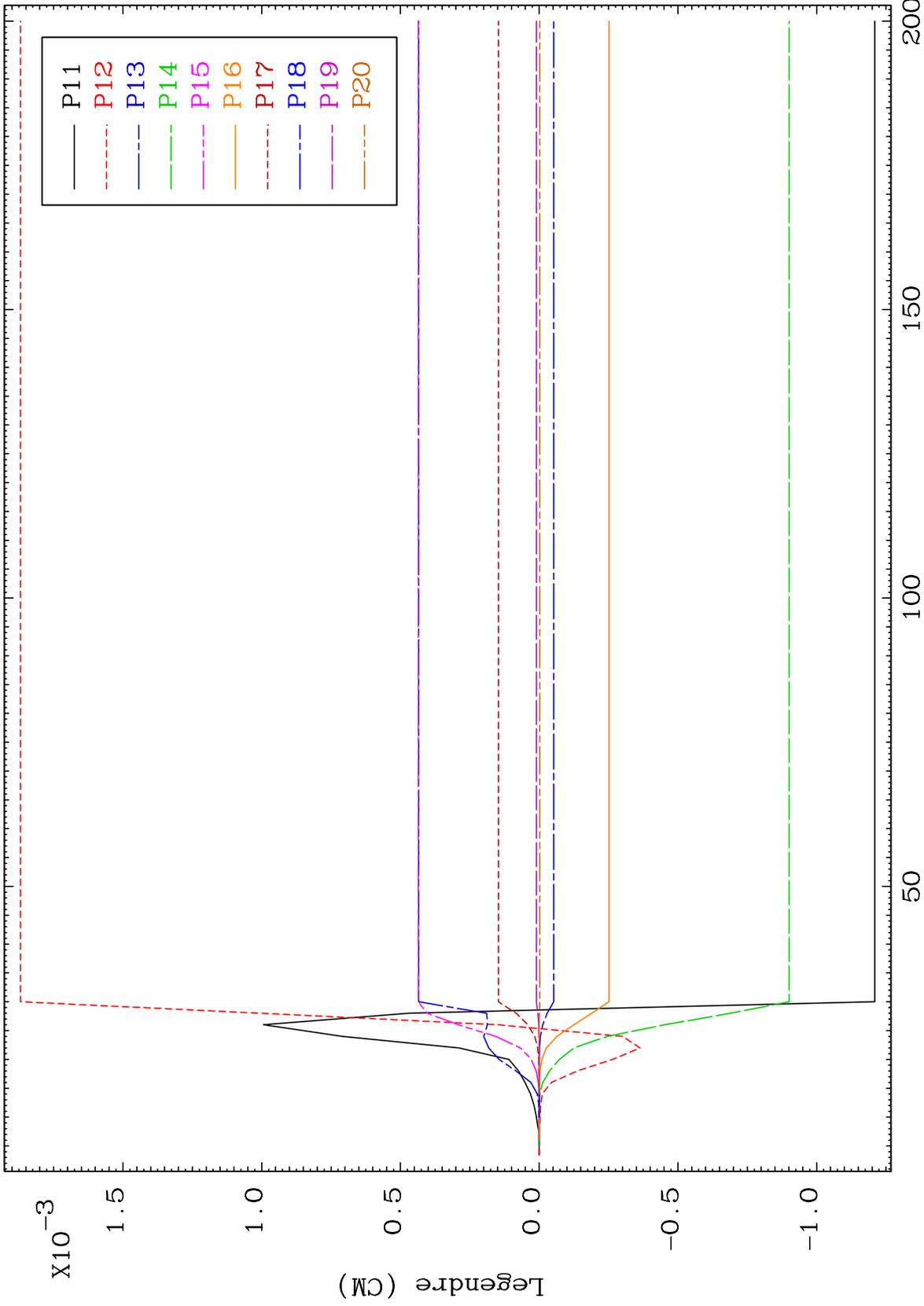
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

87-Fr-212



52

Incident Energy (MeV)

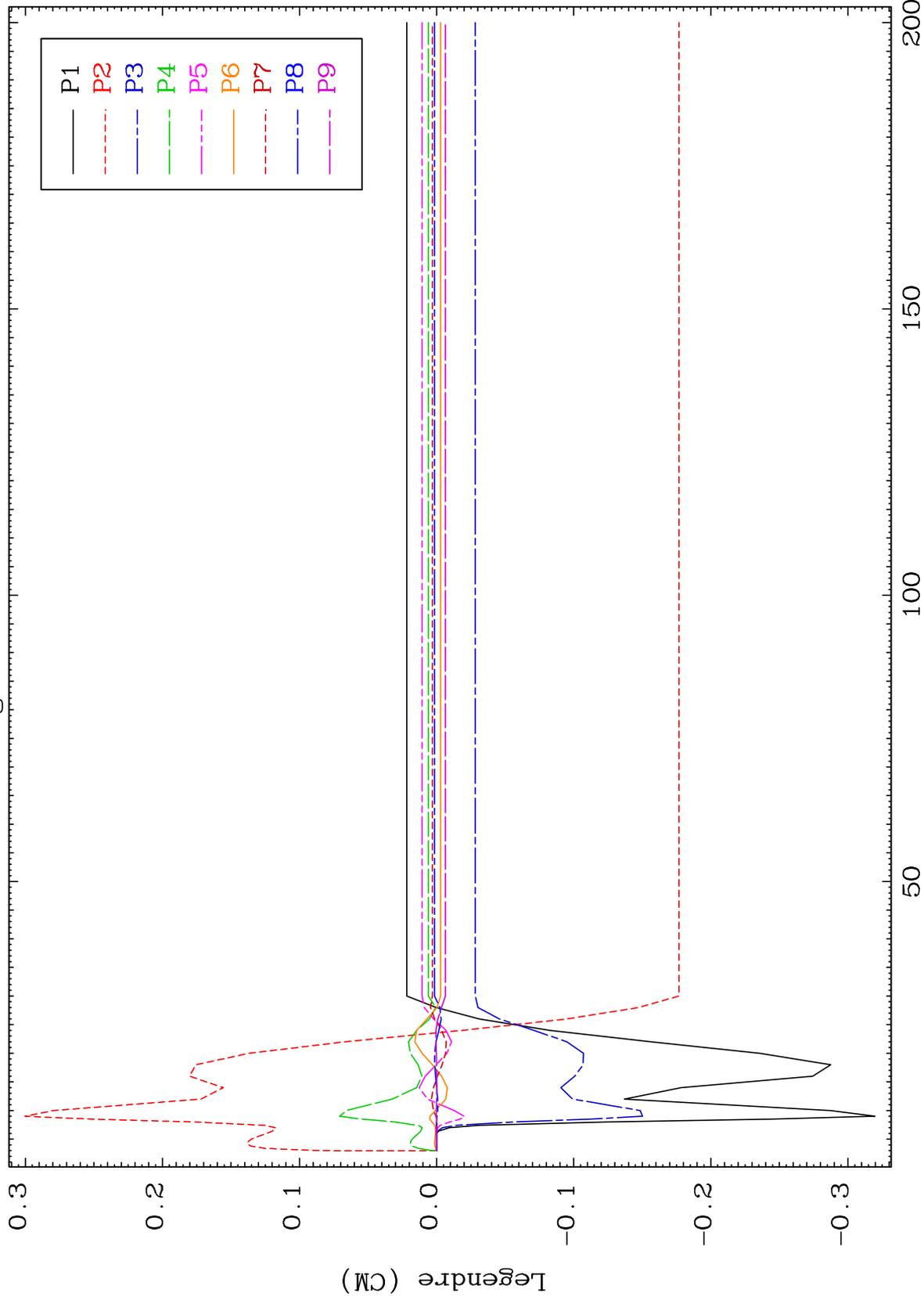
87-Fr-212



MAT 8725

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

87-Fr-212



54

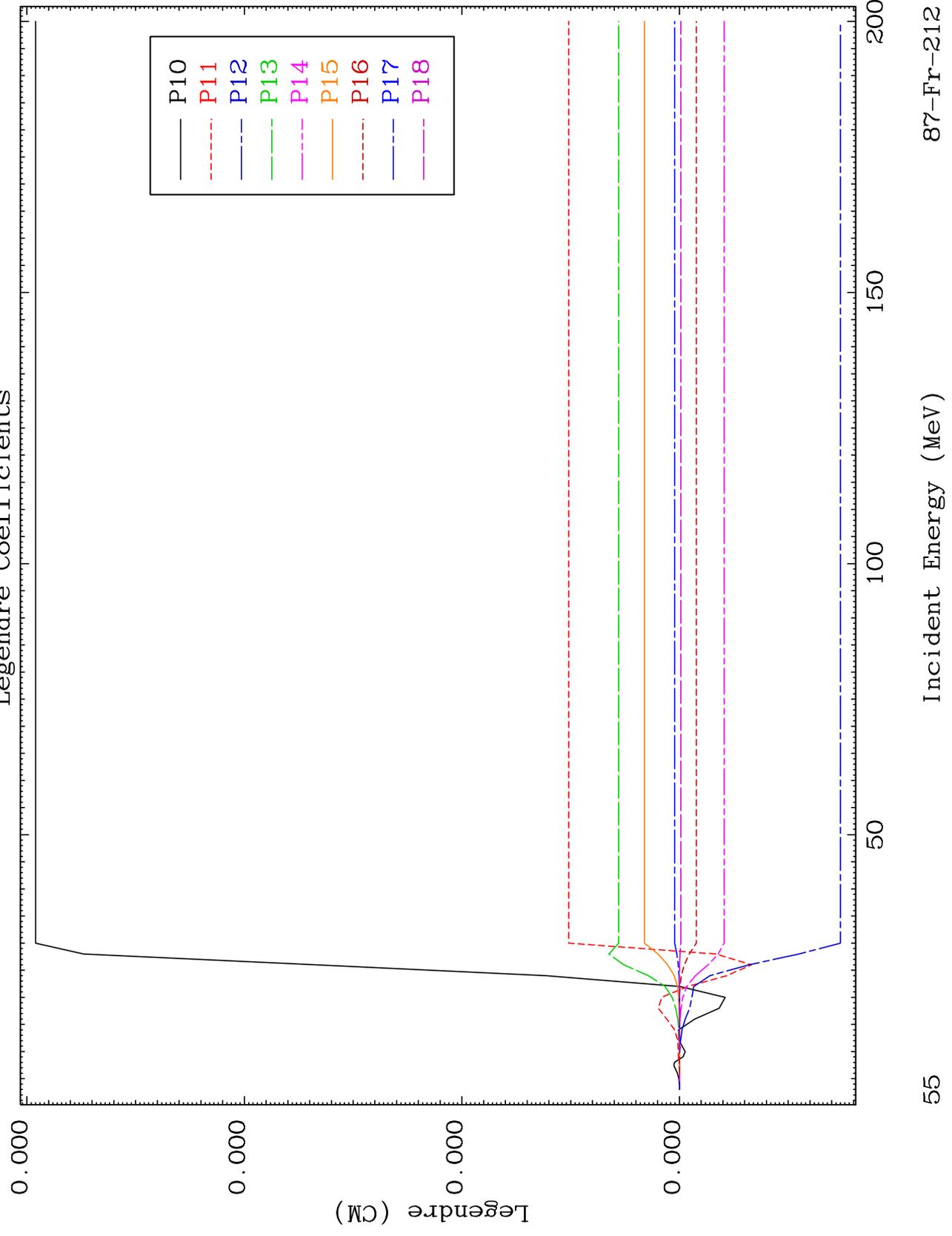
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

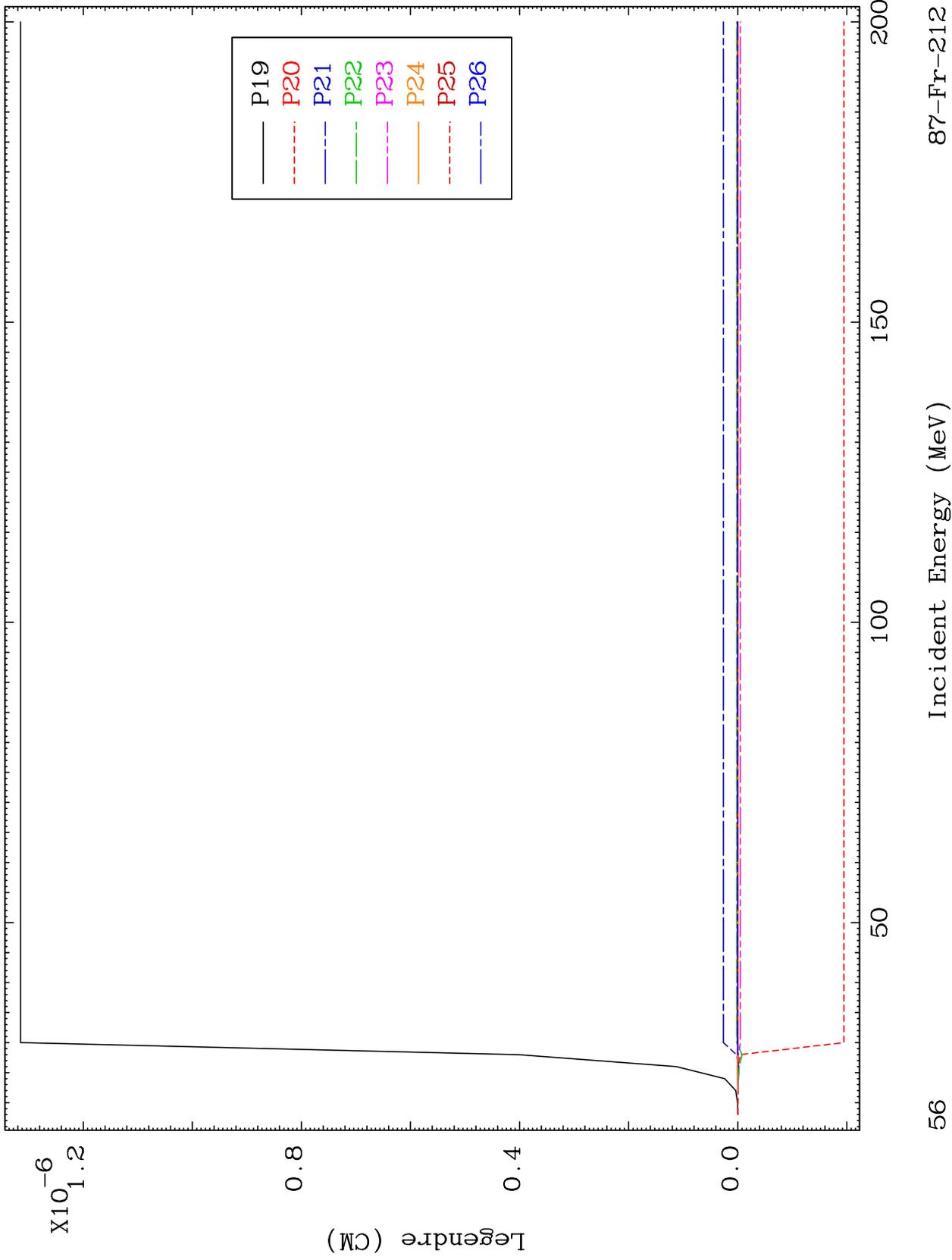
87-Fr-212



55

Incident Energy (MeV)

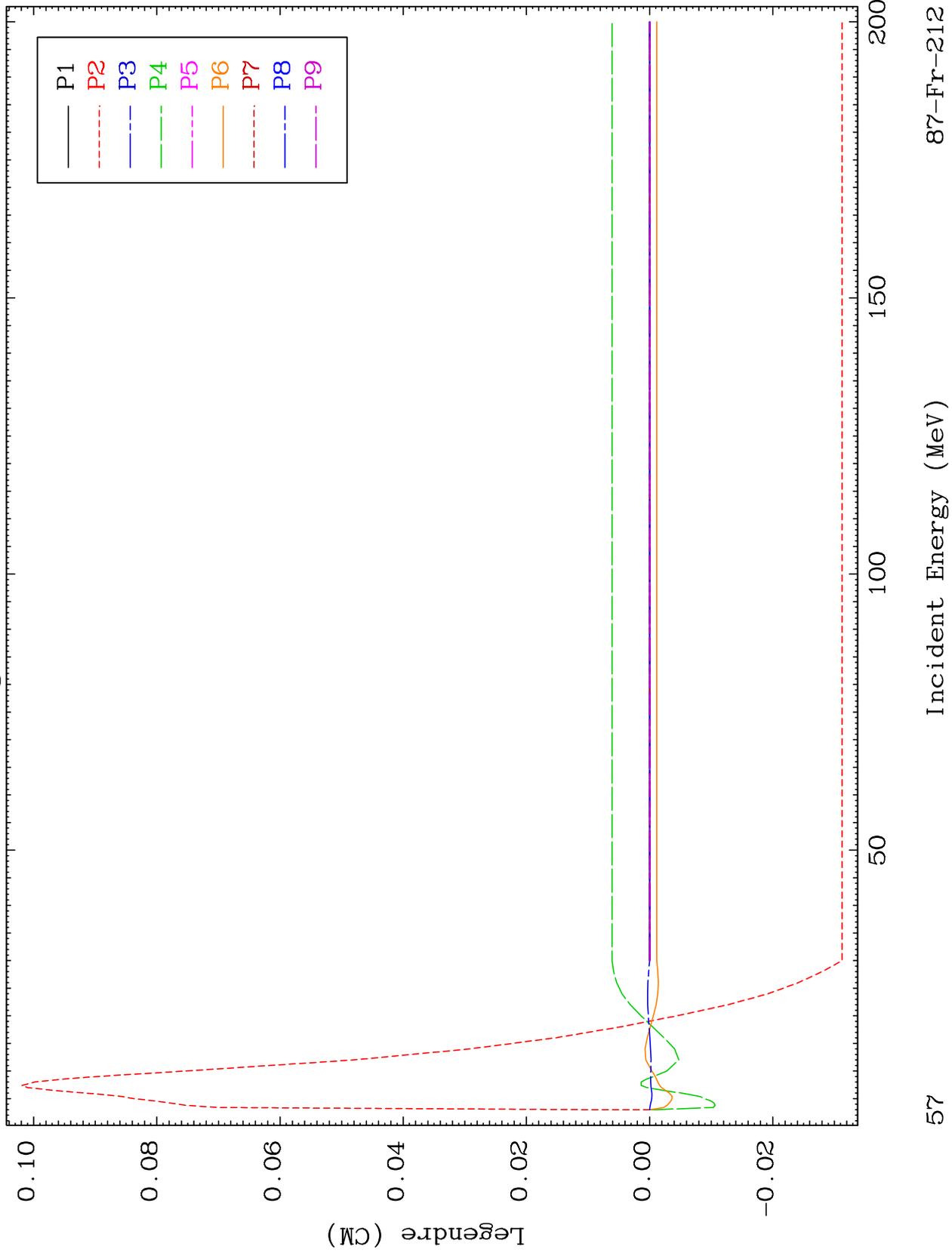
87-Fr-212



MAT 8725

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

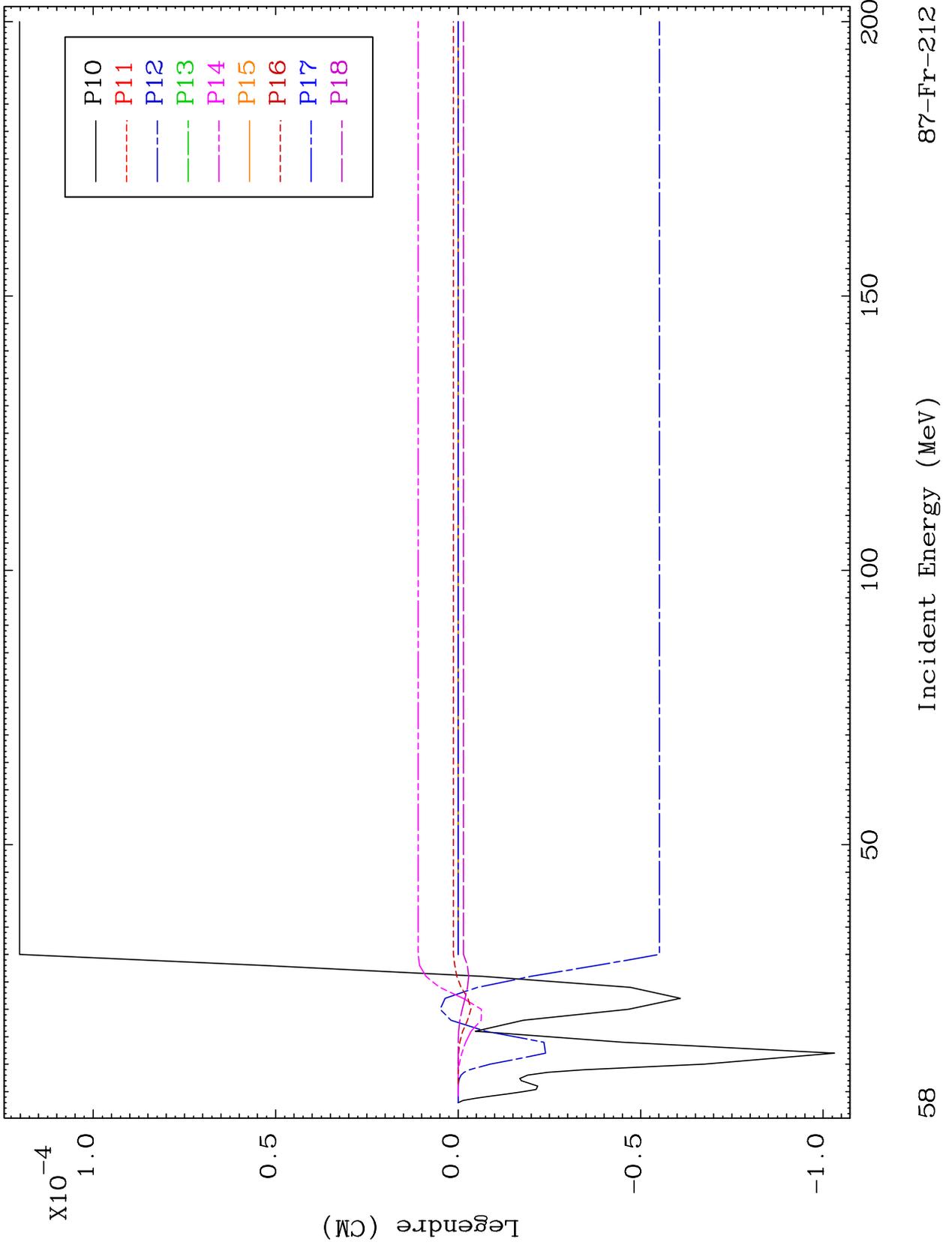
87-Fr-212



57

Incident Energy (MeV)

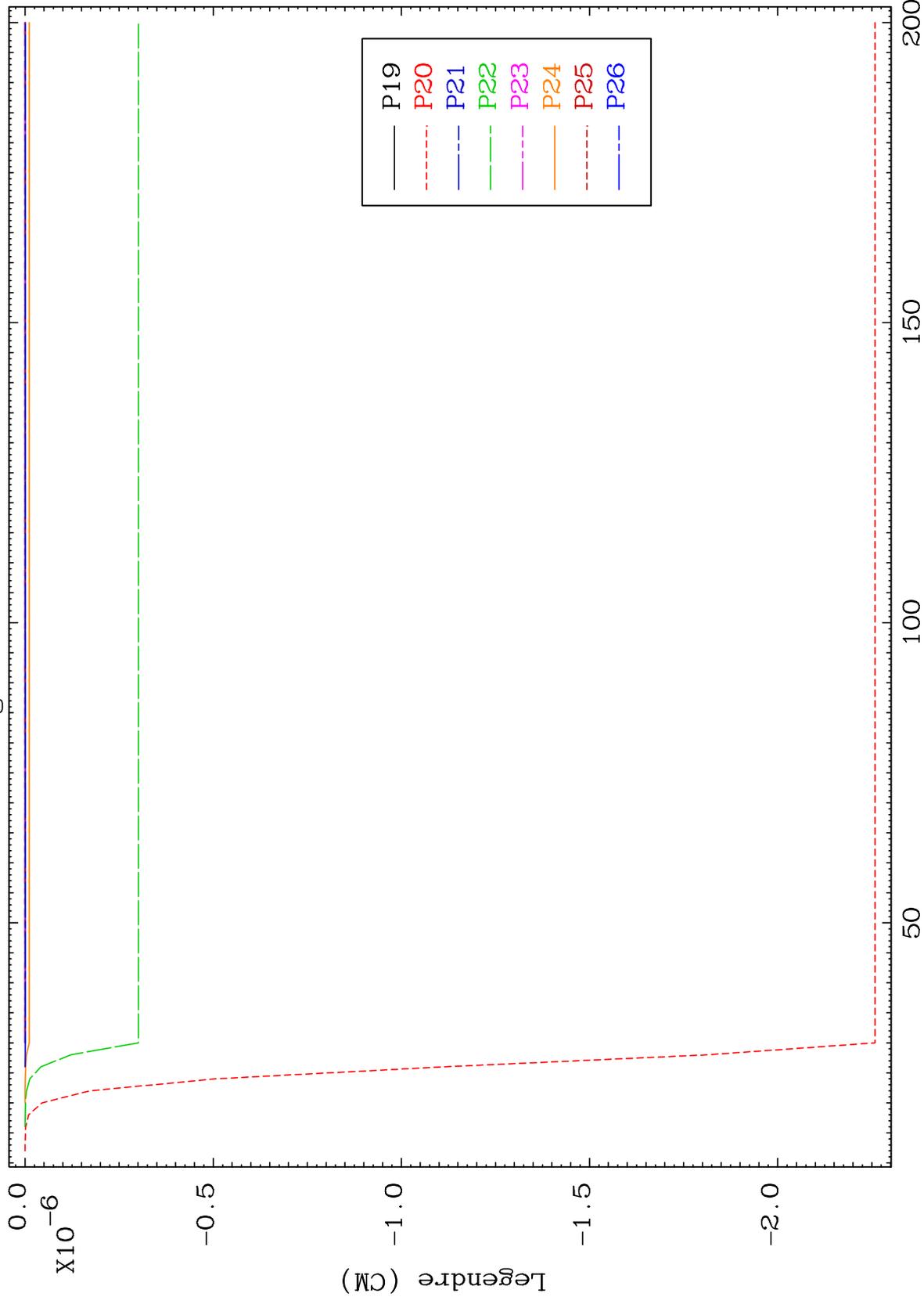
87-Fr-212



MAT 8725

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

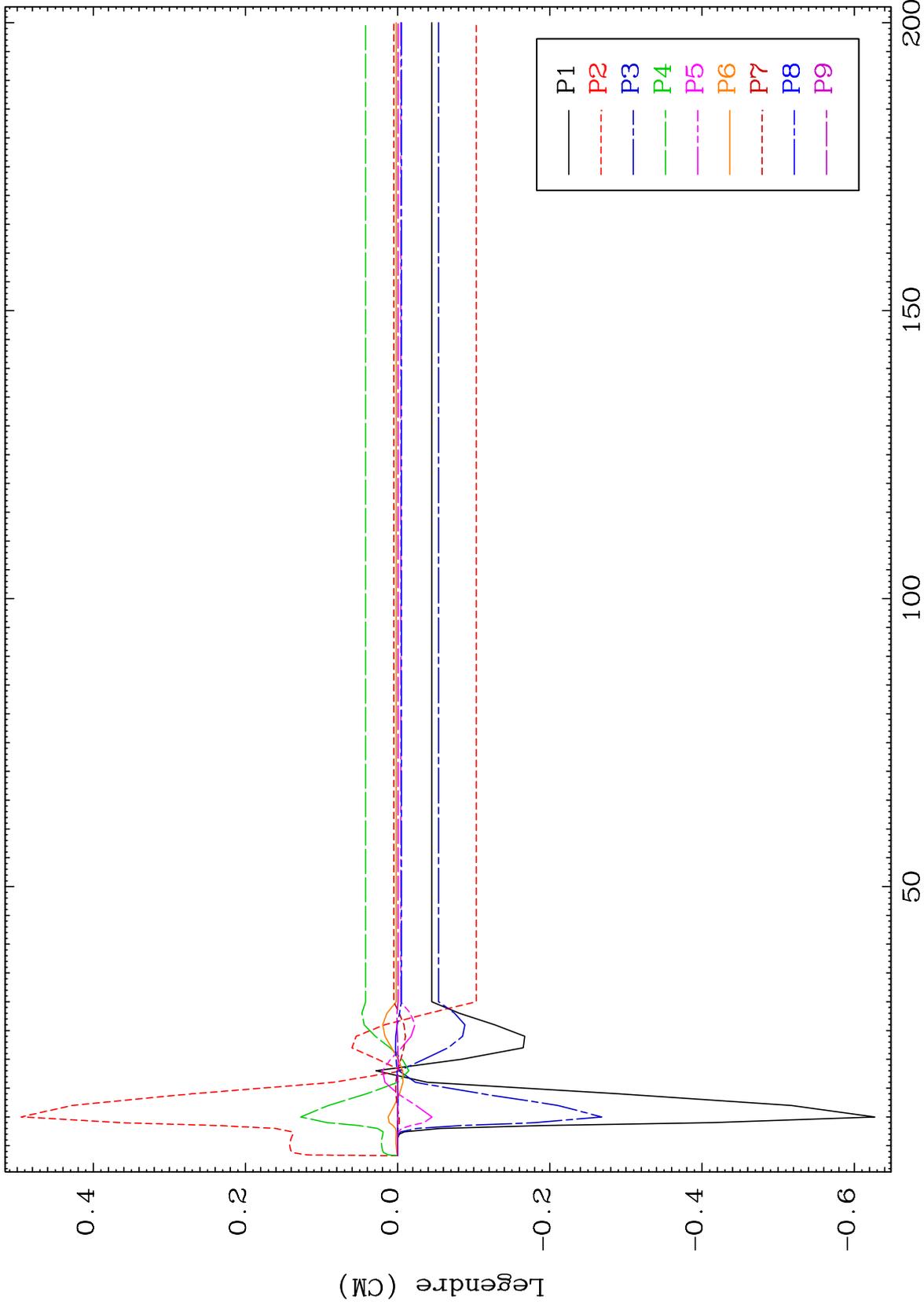
87-Fr-212



MAT 8725

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

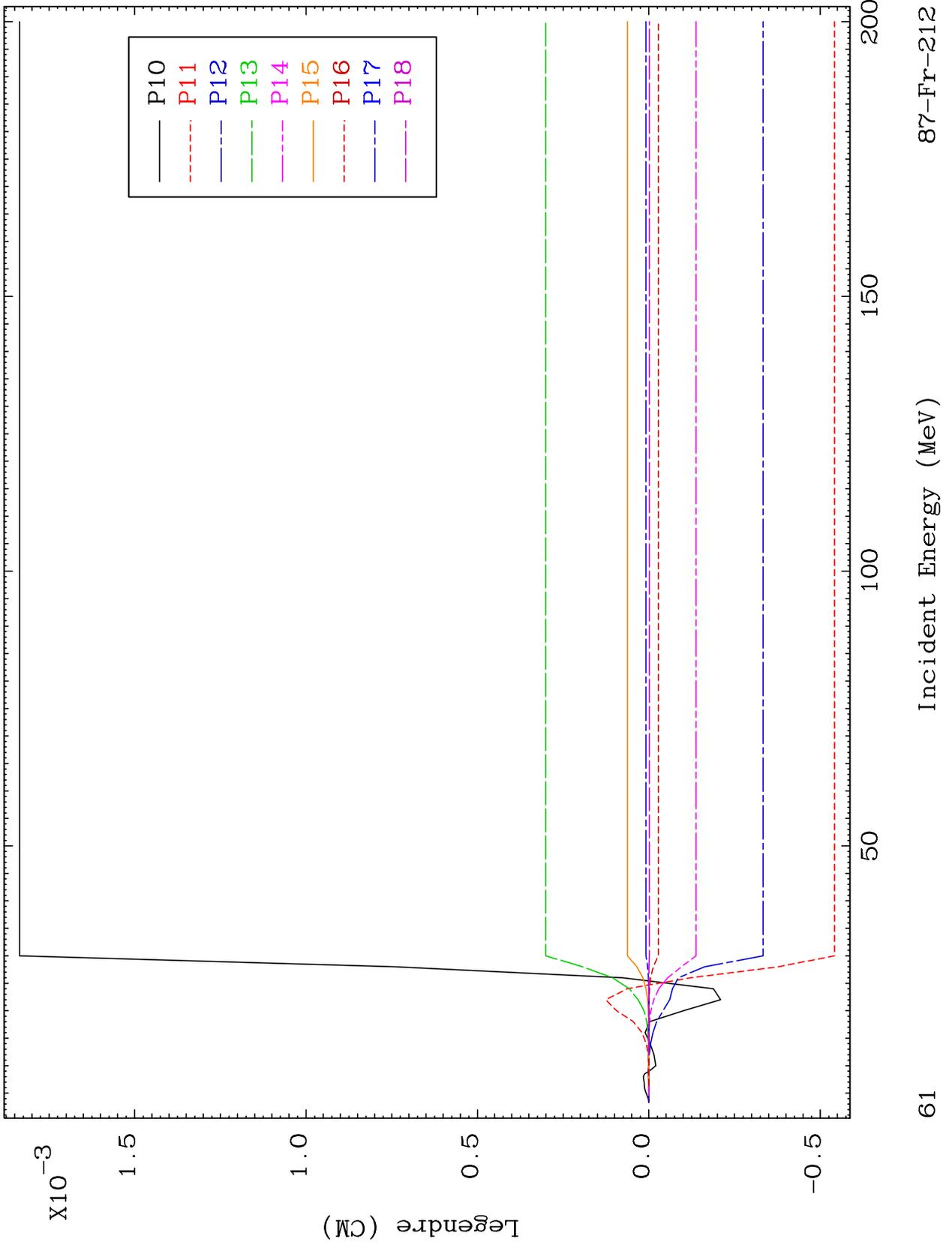
87-Fr-212



60

Incident Energy (MeV)

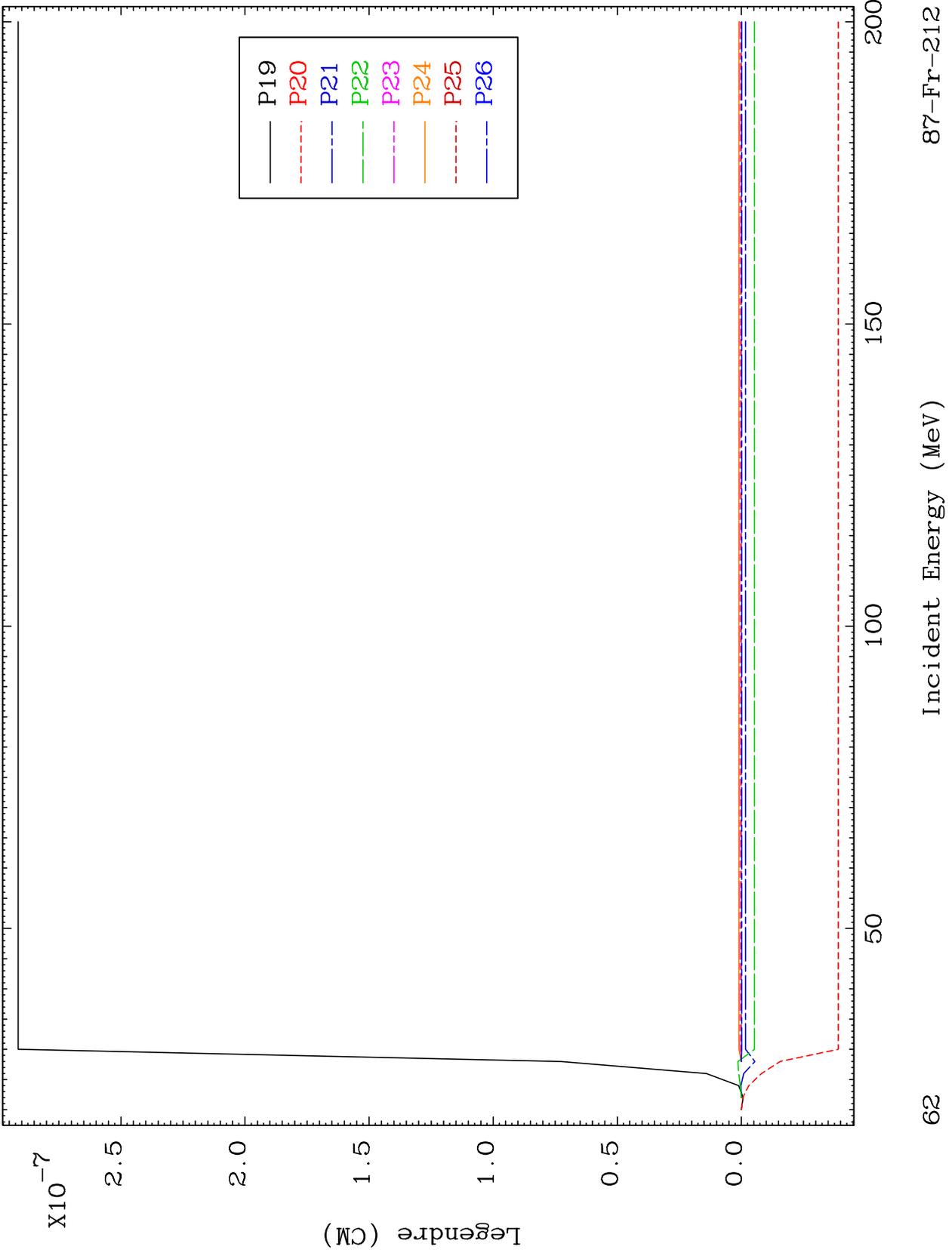
87-Fr-212



MAT 8725

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

87-Fr-212



62

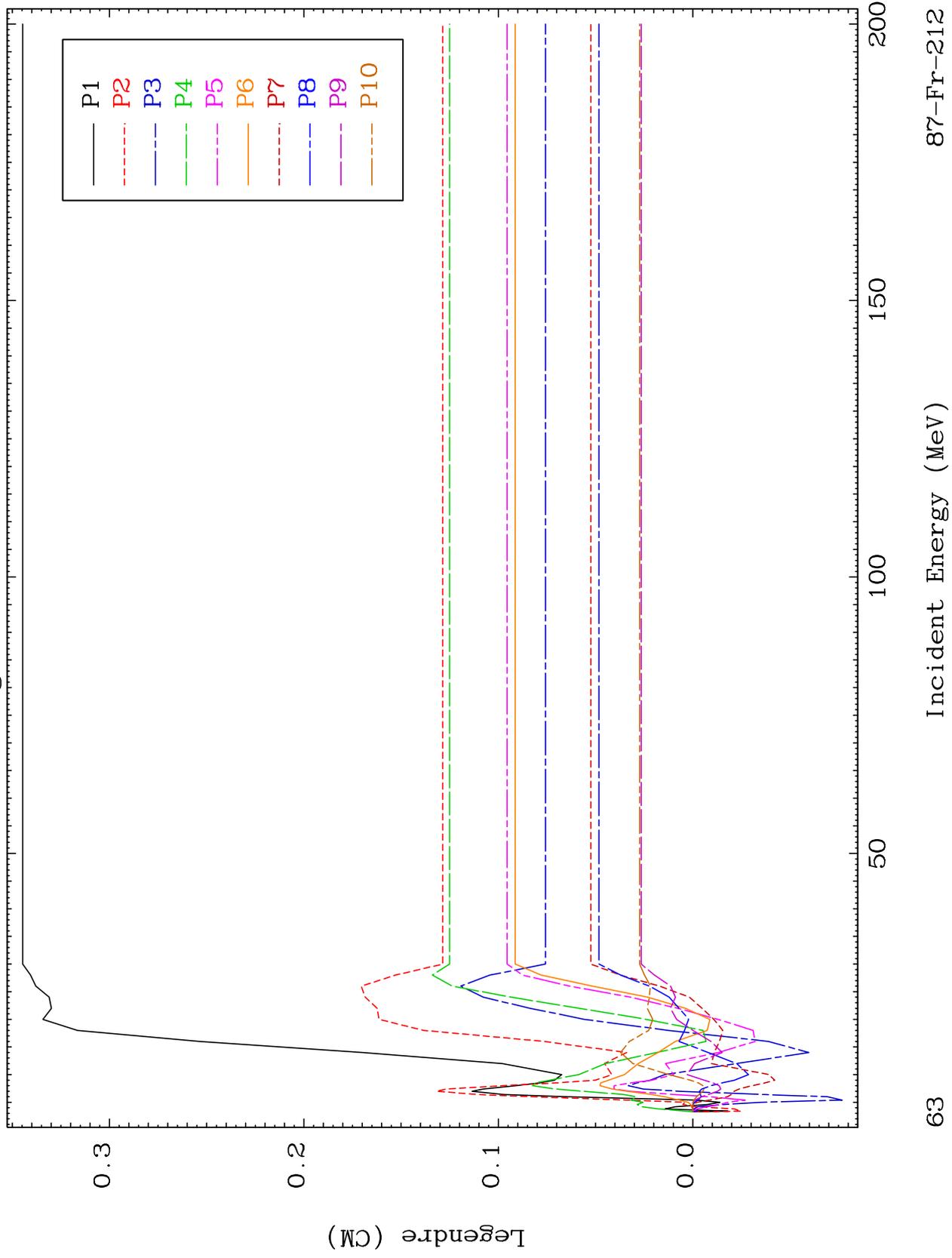
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

87-Fr-212



63

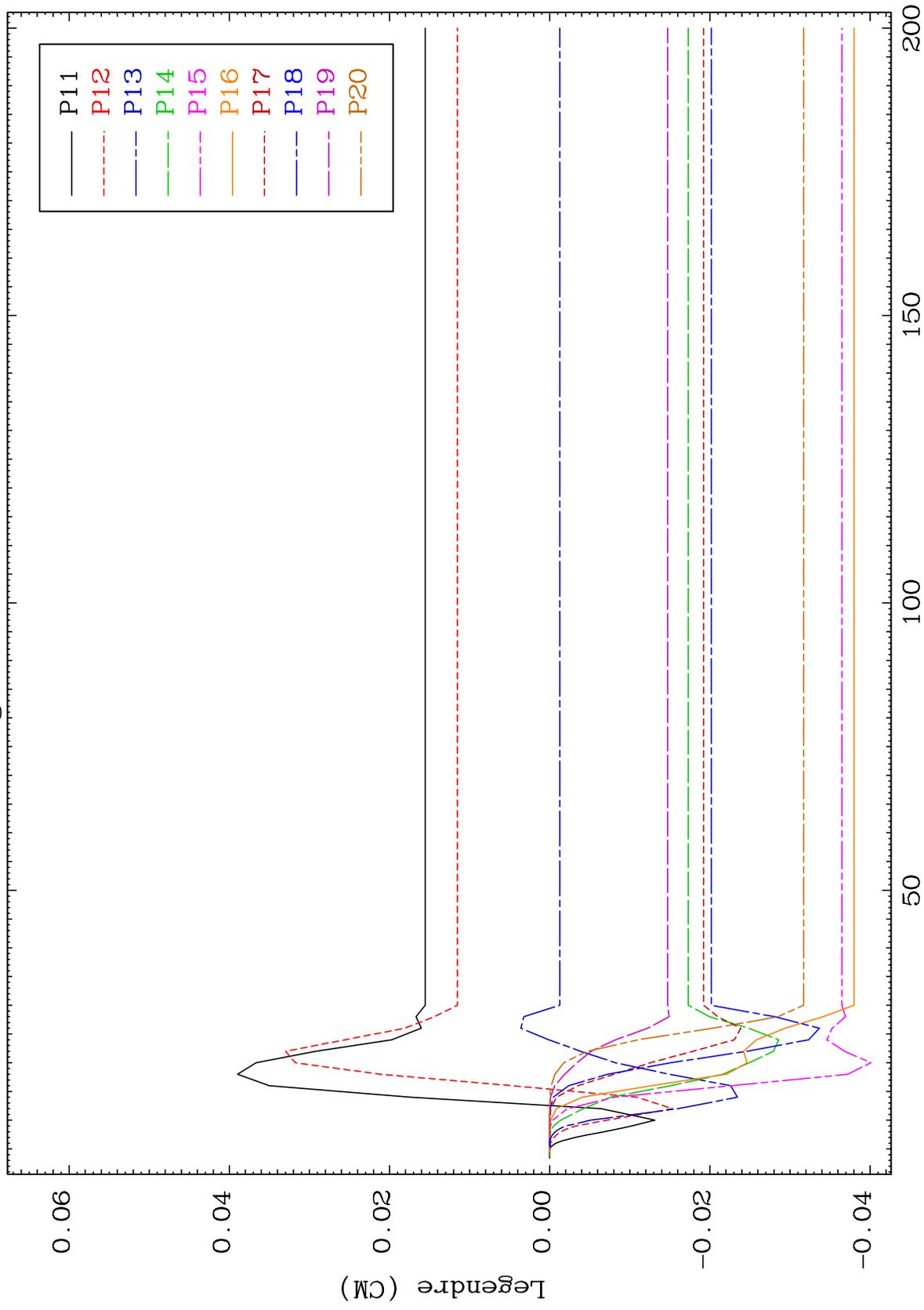
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

87-Fr-212



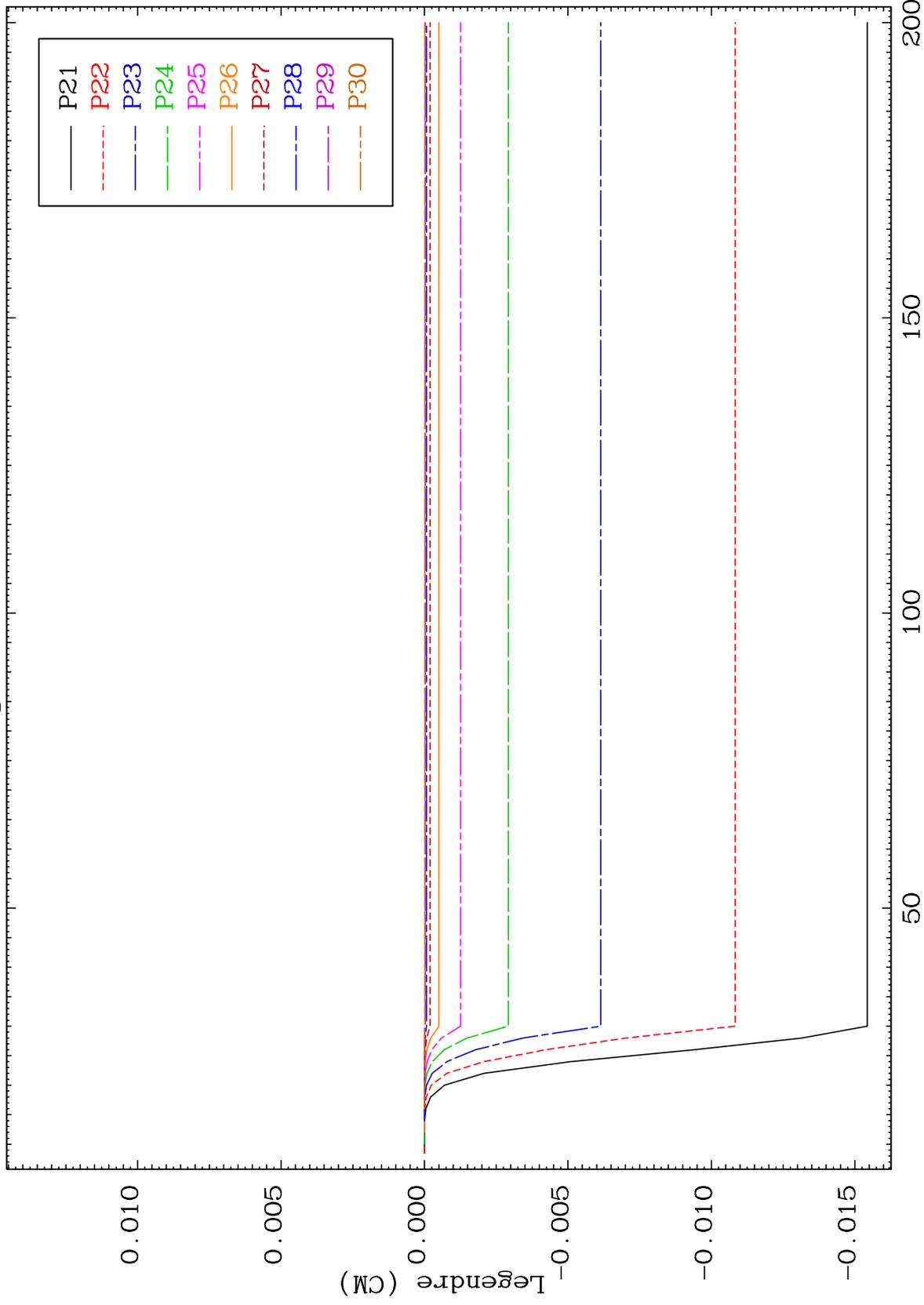
64

87-Fr-212

MAT 8725

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

87-Fr-212



65

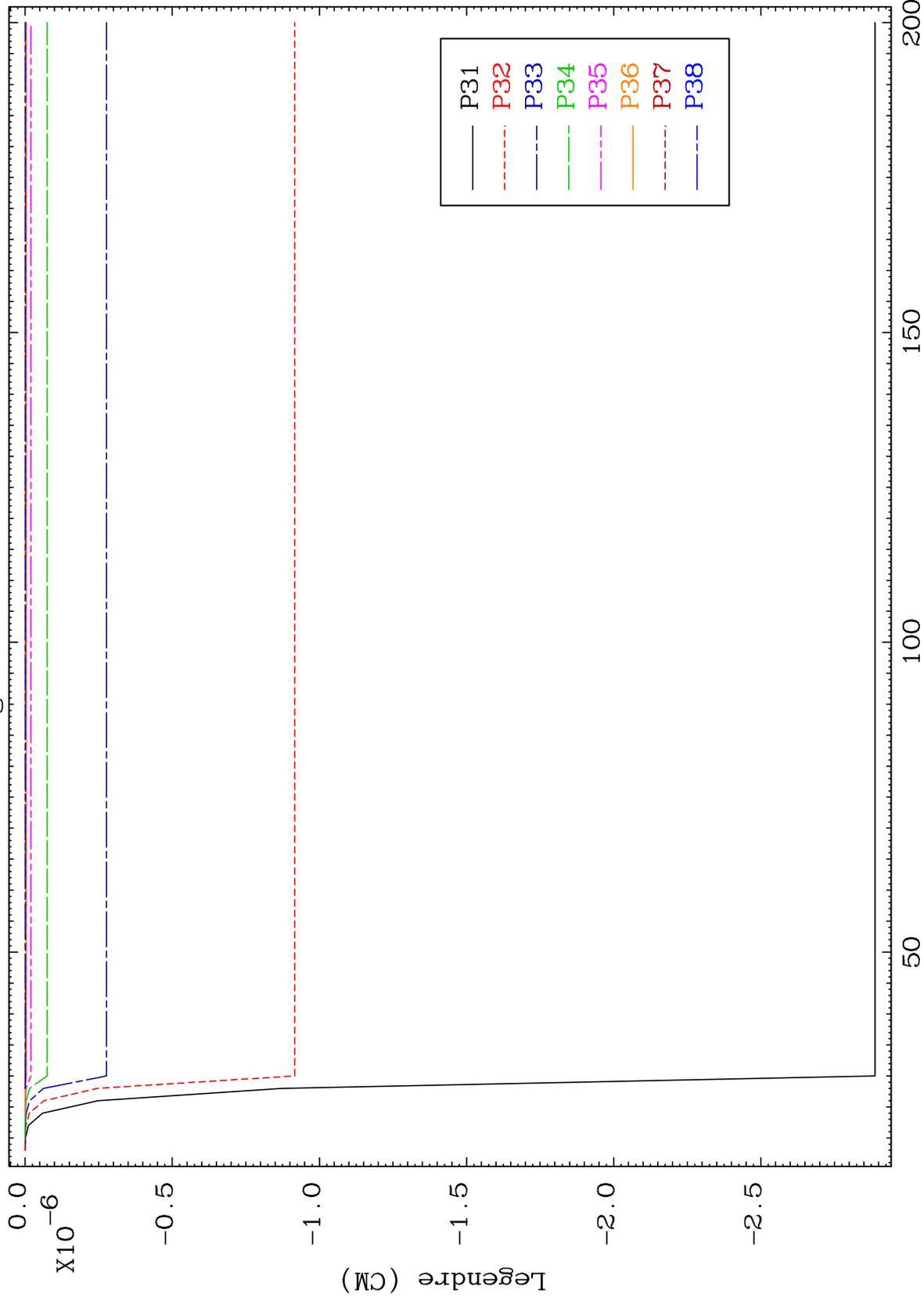
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

87-Fr-212



66

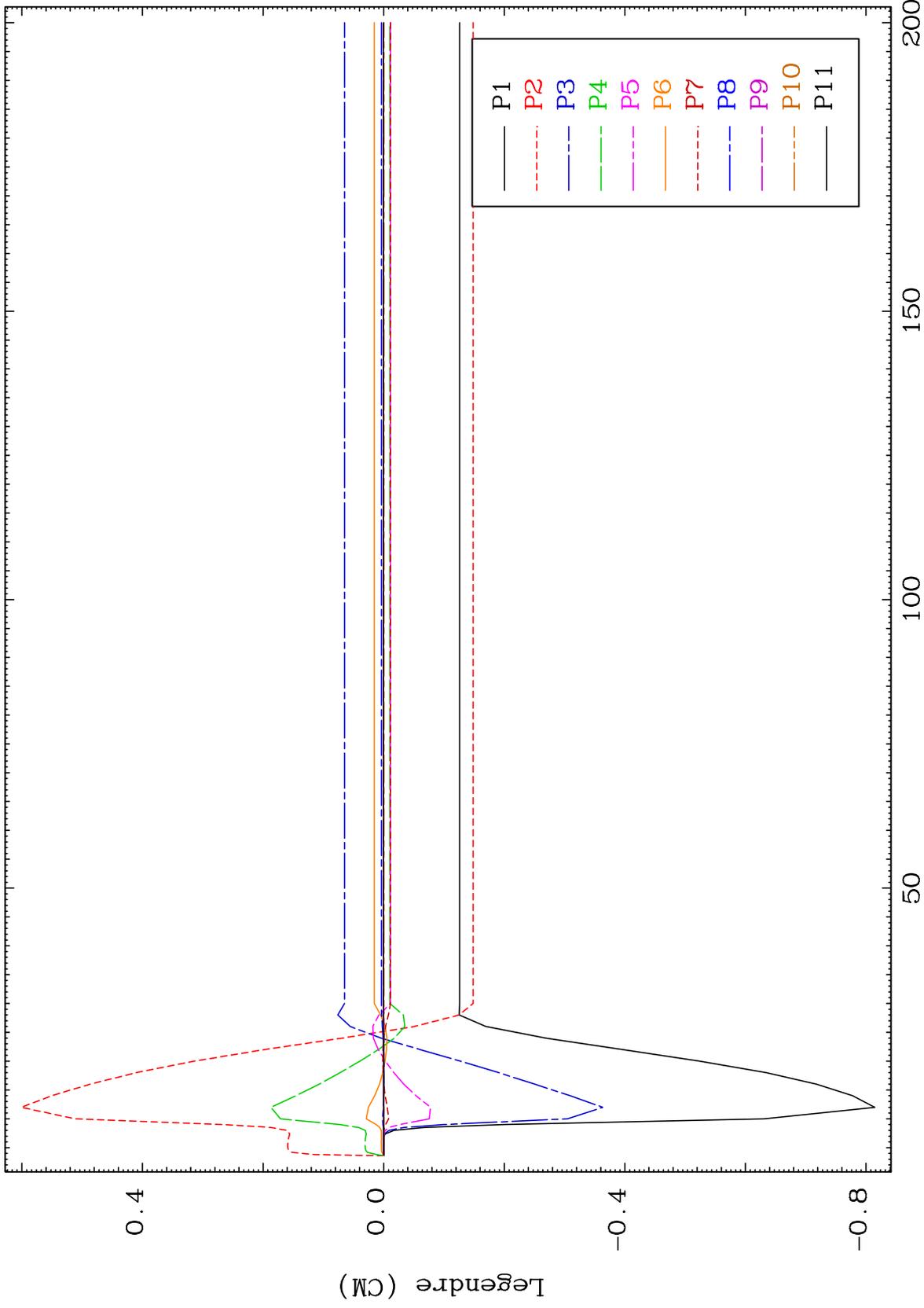
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

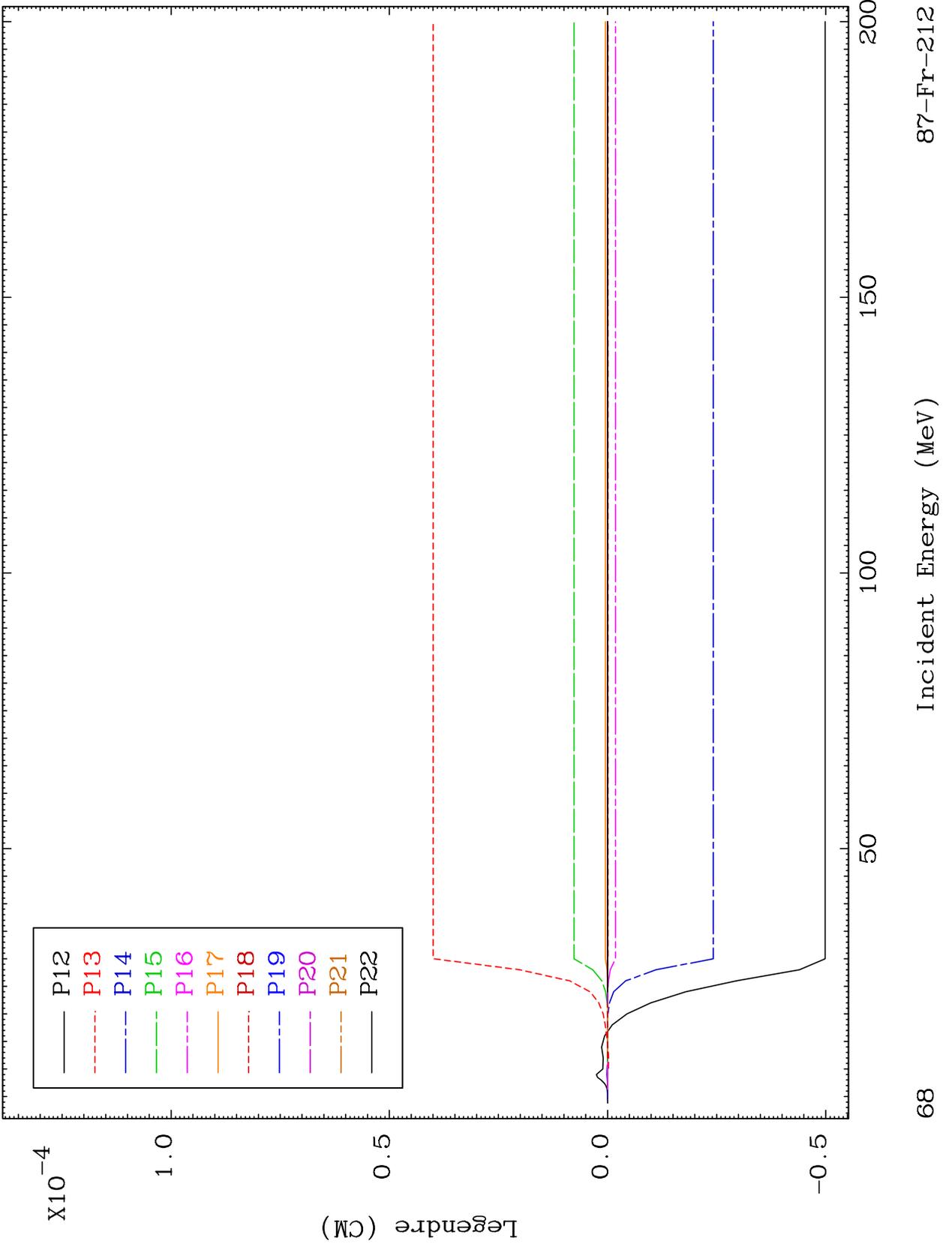
87-Fr-212



67

Incident Energy (MeV)

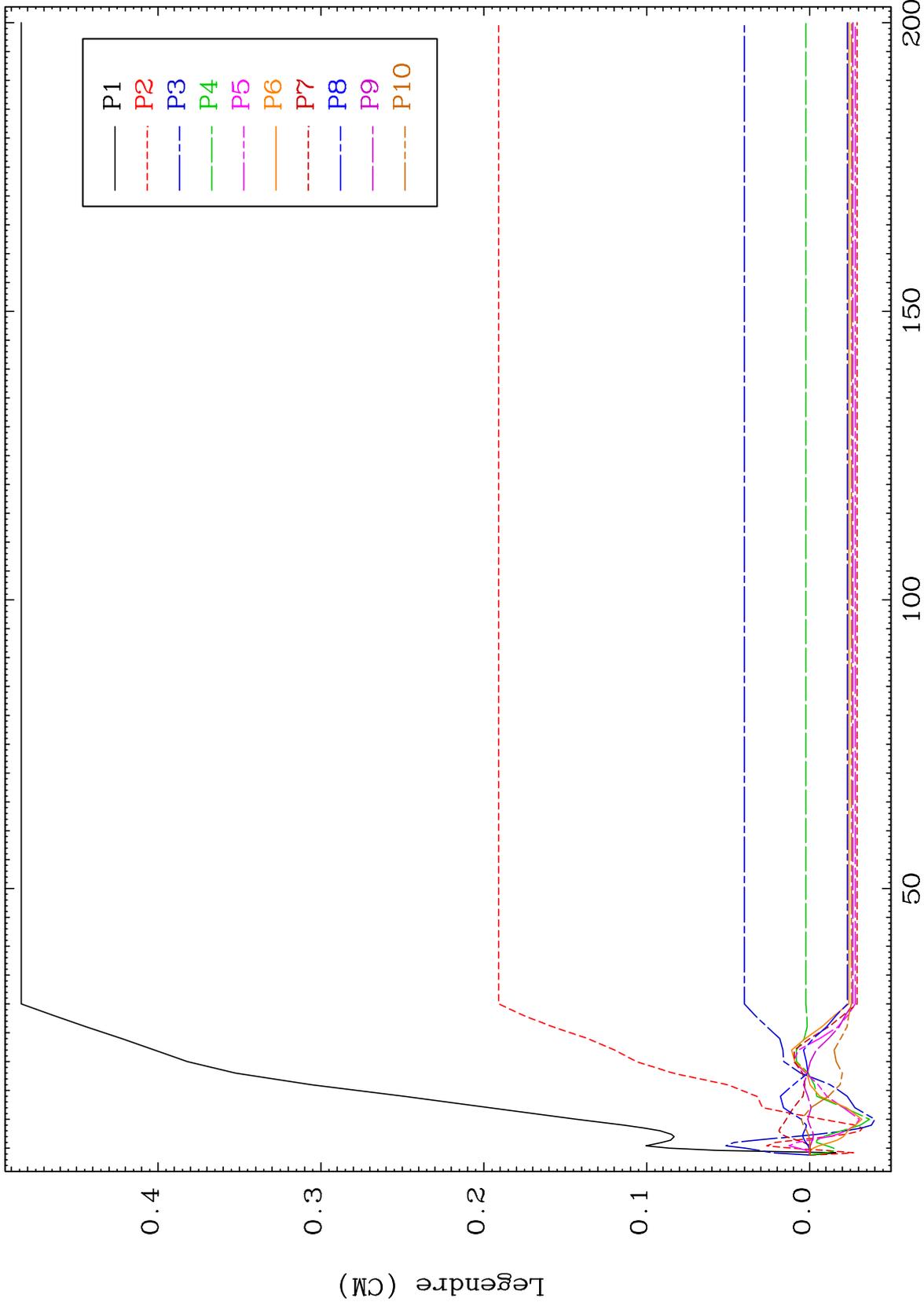
87-Fr-212



MAT 8725

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

87-Fr-212



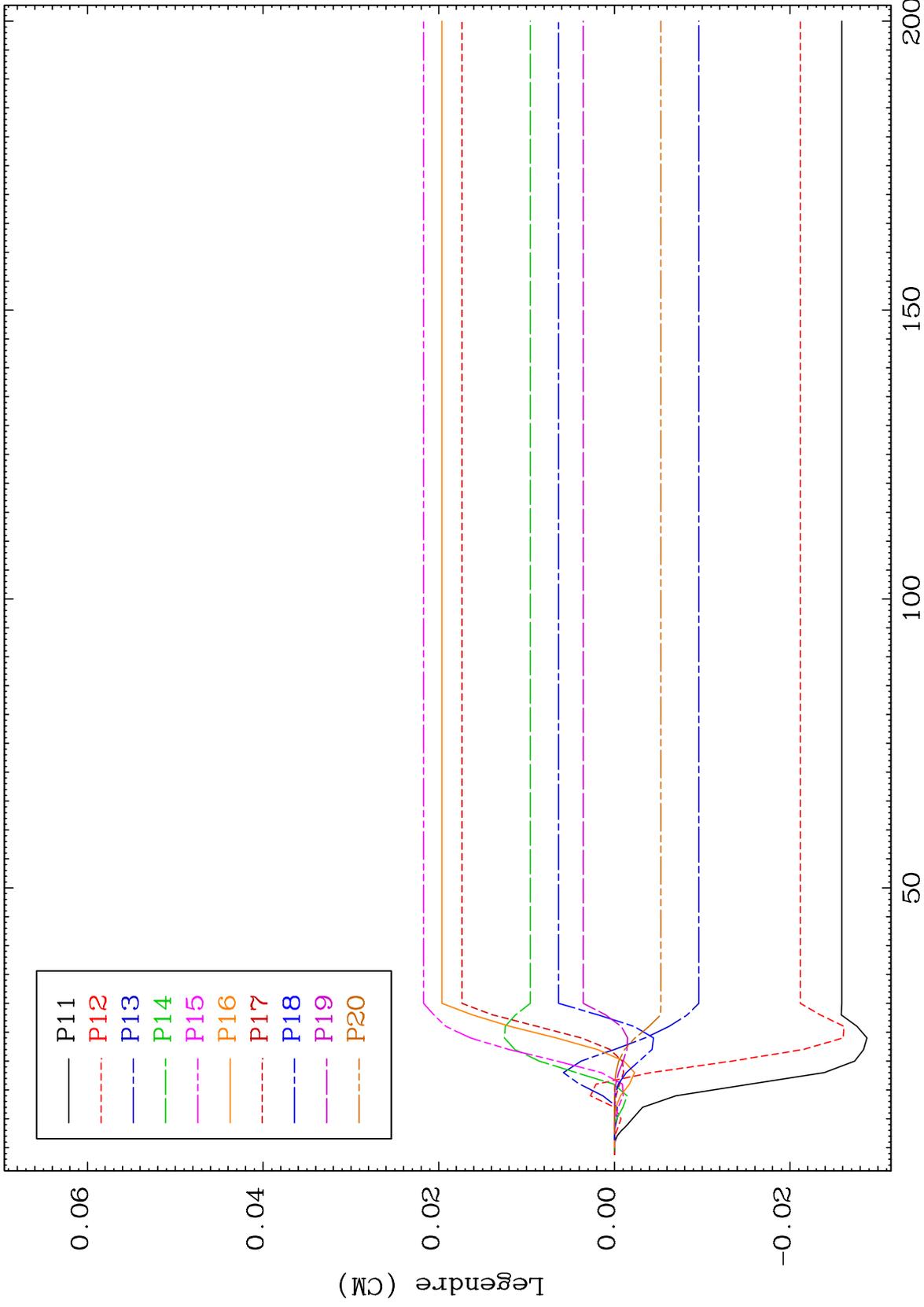
69

87-Fr-212

MAT 8725

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

87-Fr-212



70

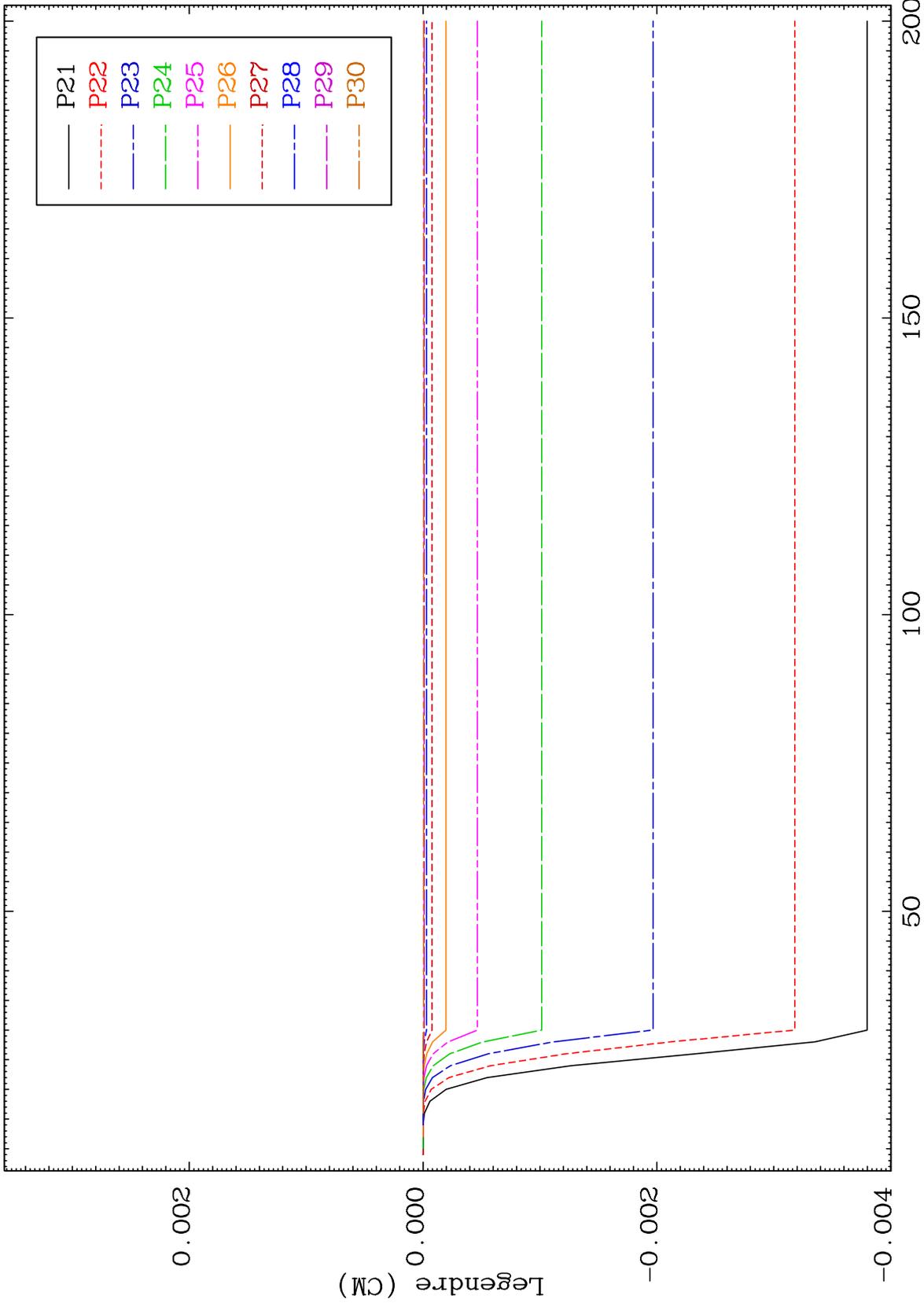
Incident Energy (MeV)

87-Fr-212

MAT 8725

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

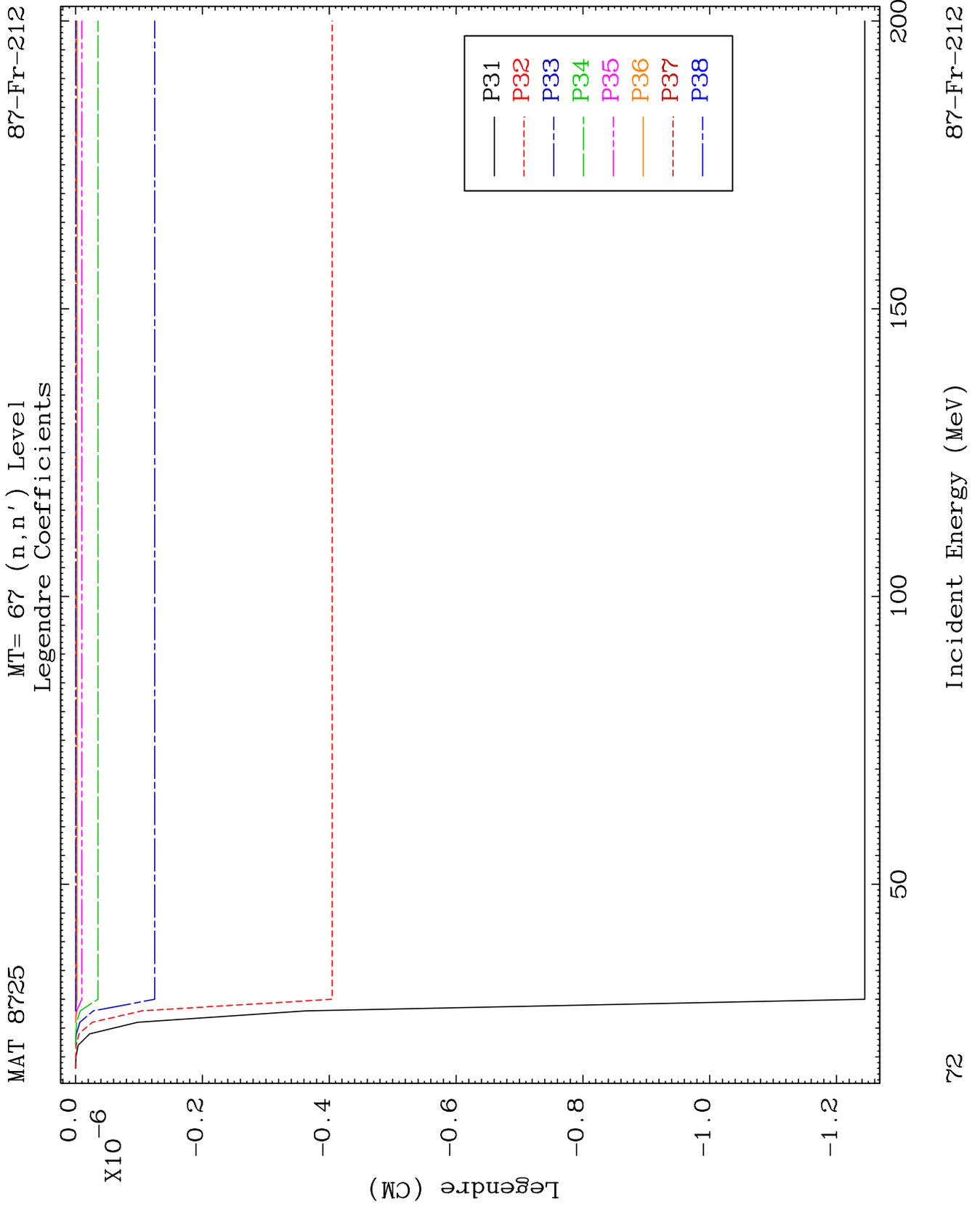
87-Fr-212



71

Incident Energy (MeV)

87-Fr-212

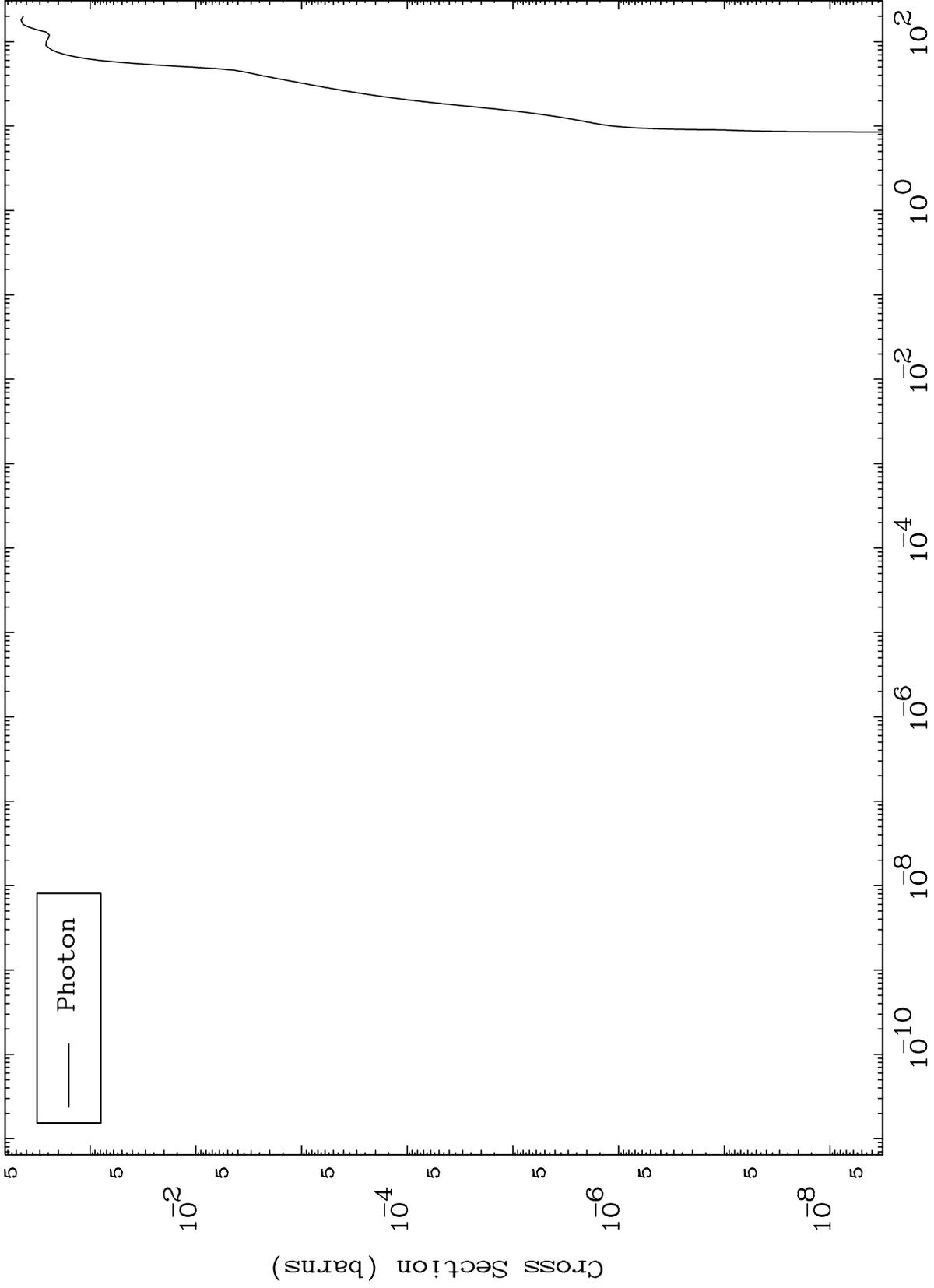


MAT 8725

Fission

87-Fr-212

Radionuclide Production Cross Section



73

Incident Energy (MeV)

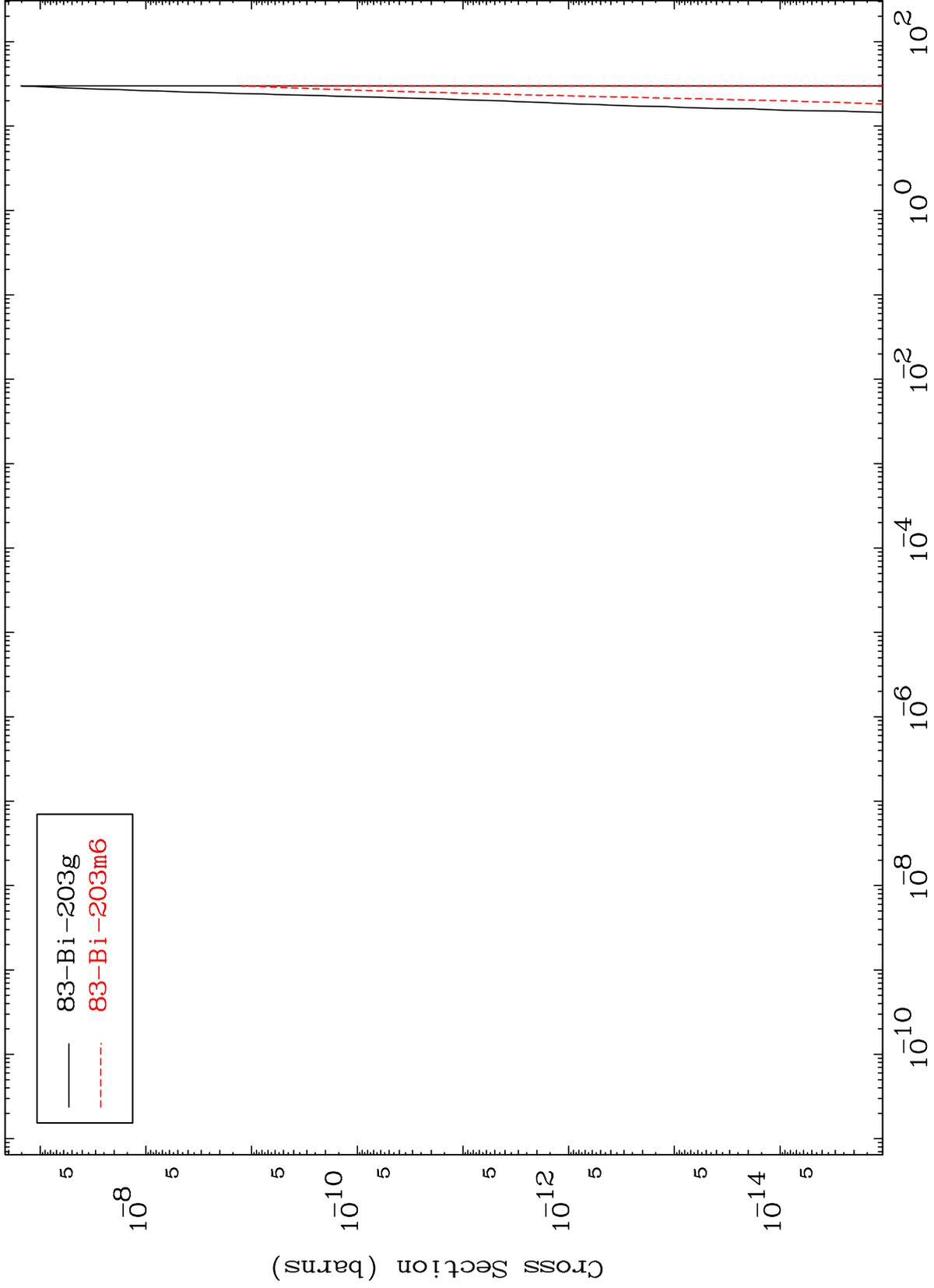
87-Fr-212

MAT 8725

(n,2n) 2 $\alpha$

87-Fr-212

Radionuclide Production Cross Section



74

Incident Energy (MeV)

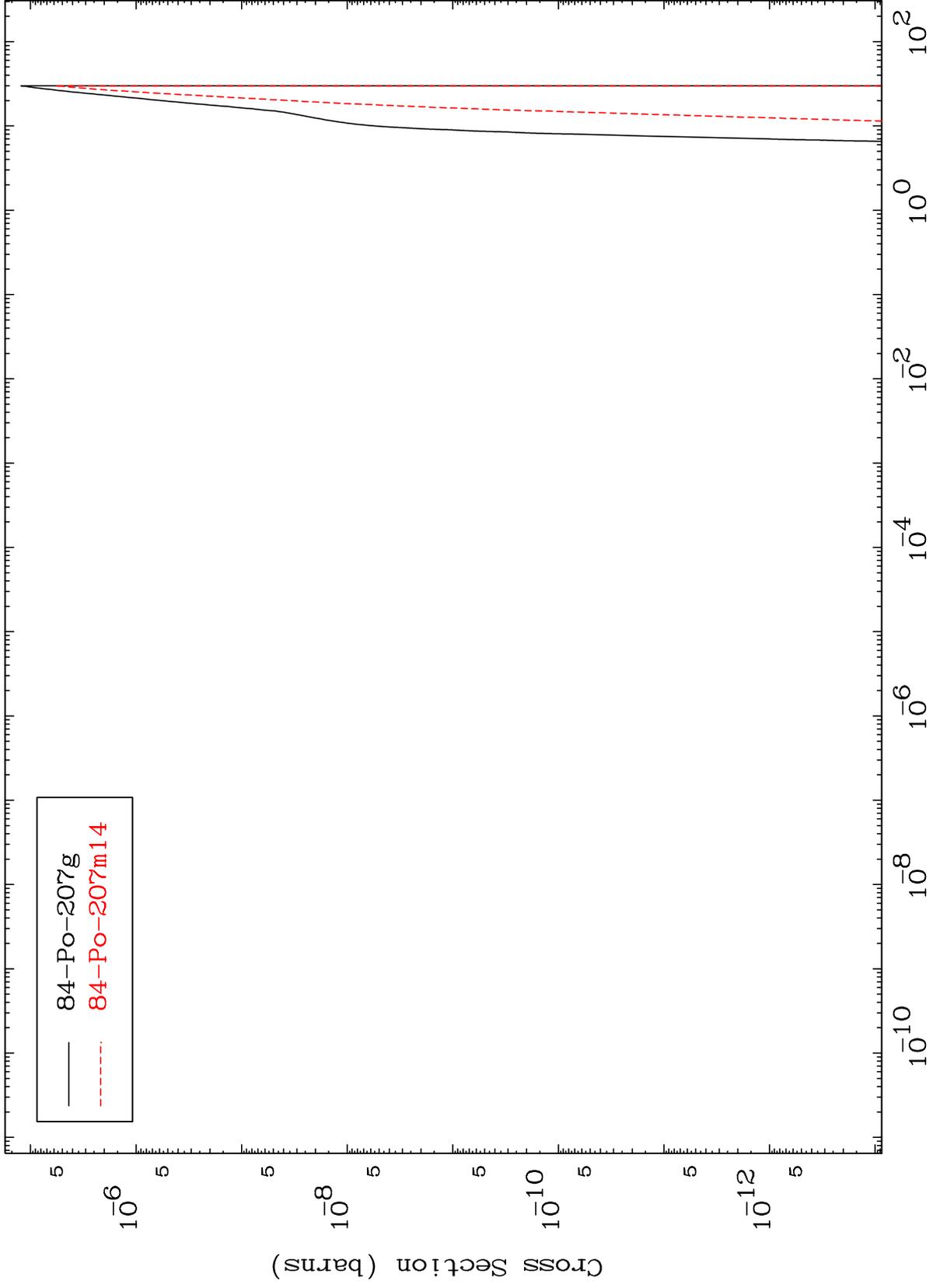
87-Fr-212

MAT 8725

(n,n') p  $\alpha$

87-Fr-212

Radionuclide Production Cross Section



75

Incident Energy (MeV)

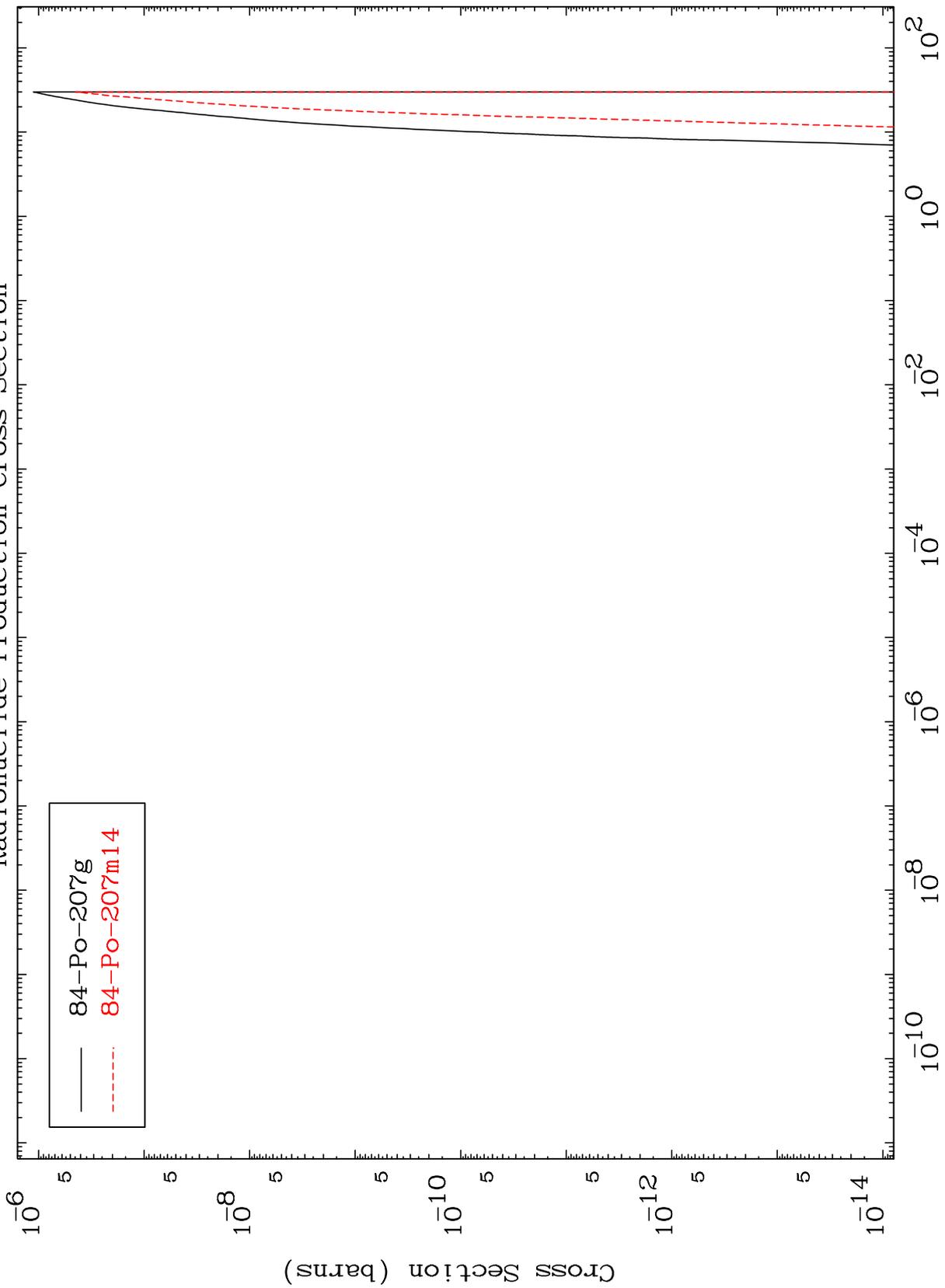
87-Fr-212

MAT 8725

(n,d)  $\alpha$

87-Fr-212

Radionuclide Production Cross Section



76

Incident Energy (MeV)

87-Fr-212