

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

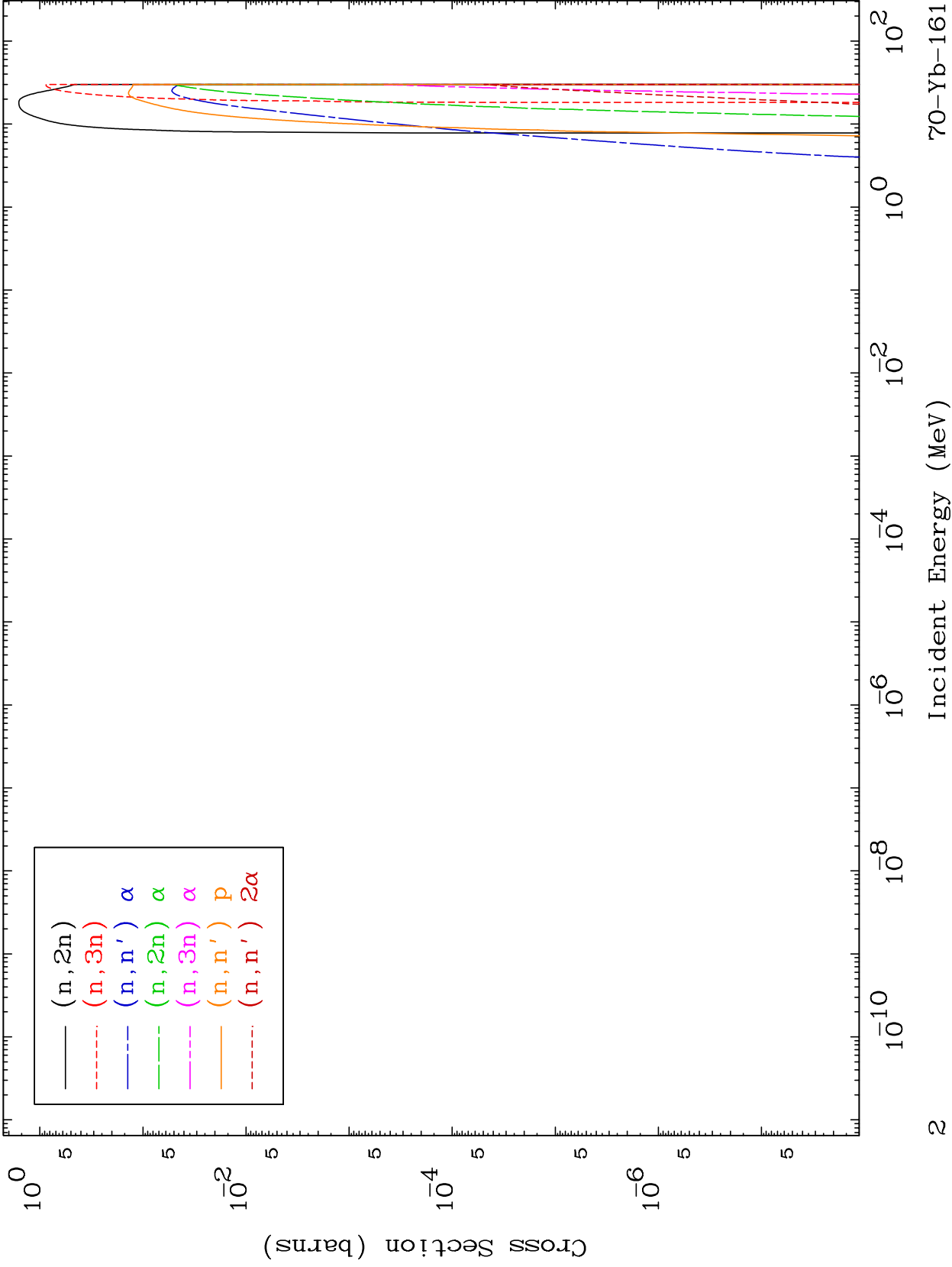
Press Mouse Button to Start



MAT 7004

Neutron Production  
293 Kelvin Cross Sections

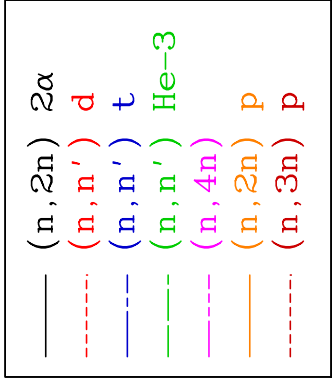
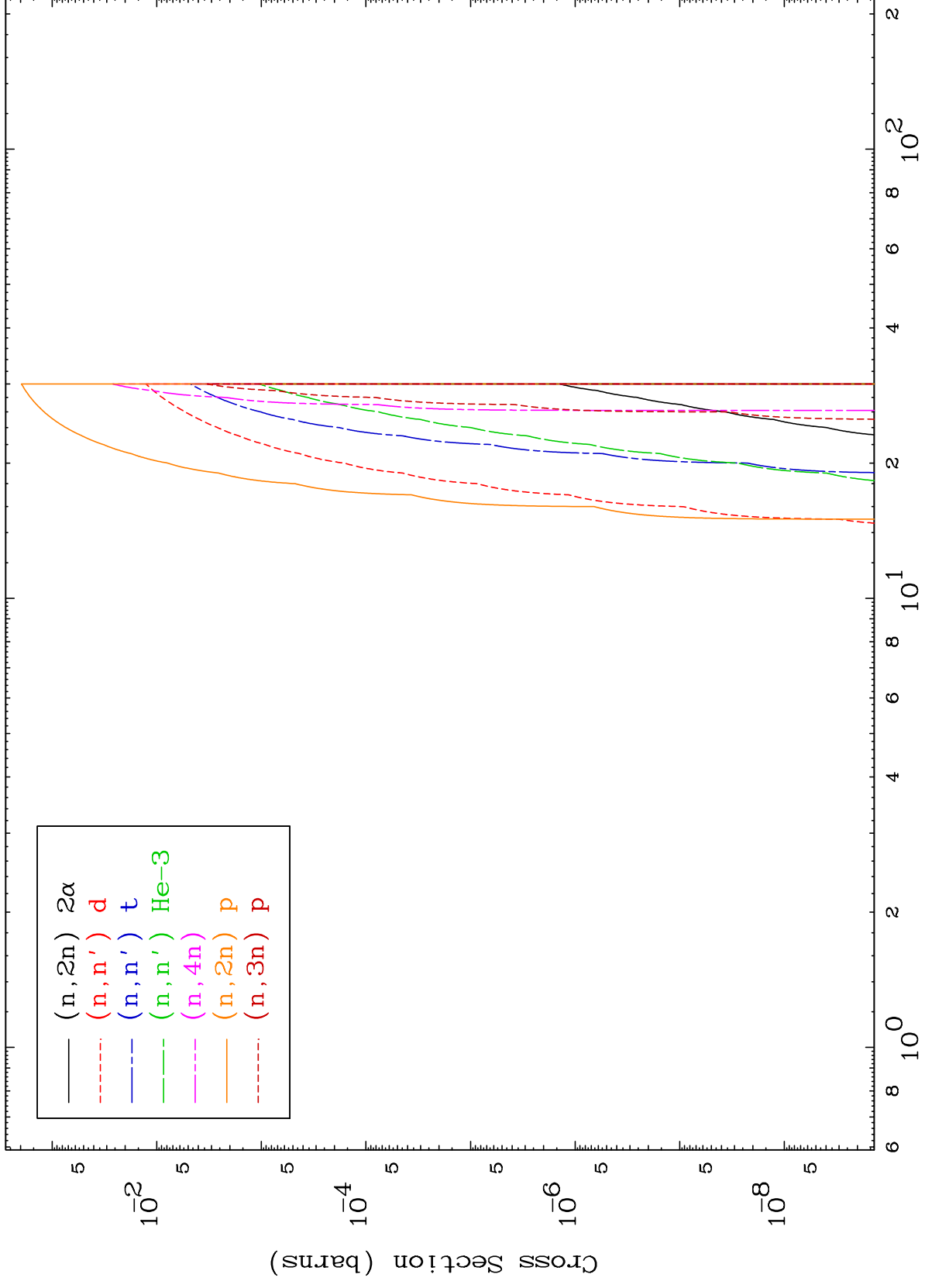
70-Yb-161



MAT 7004

Neutron Production  
293 Kelvin Cross Sections

70-Yb-161



70-Yb-161

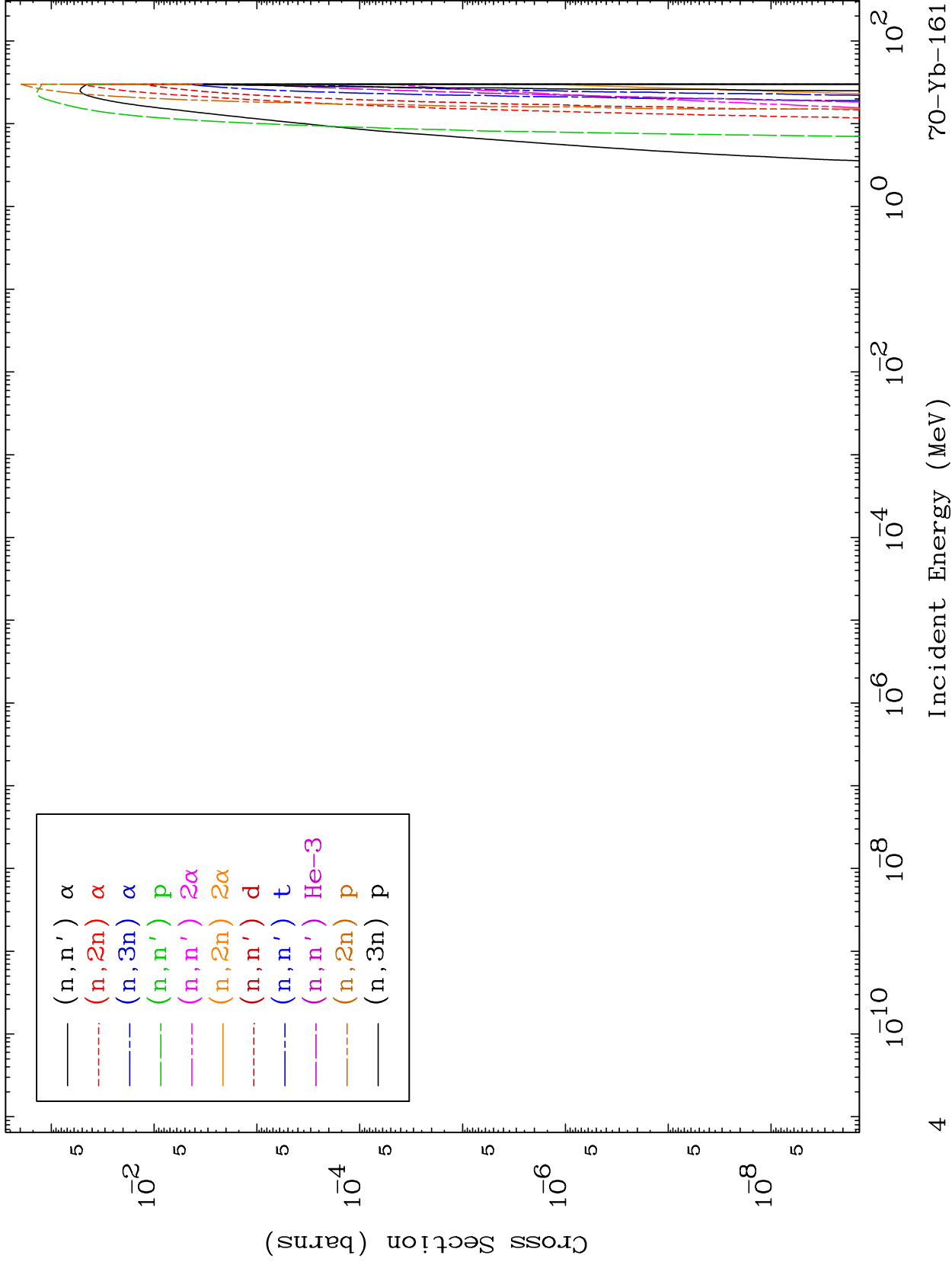
Incident Energy (MeV)

3

MAT 7004

Charged Particle  
293 Kelvin Cross Sections

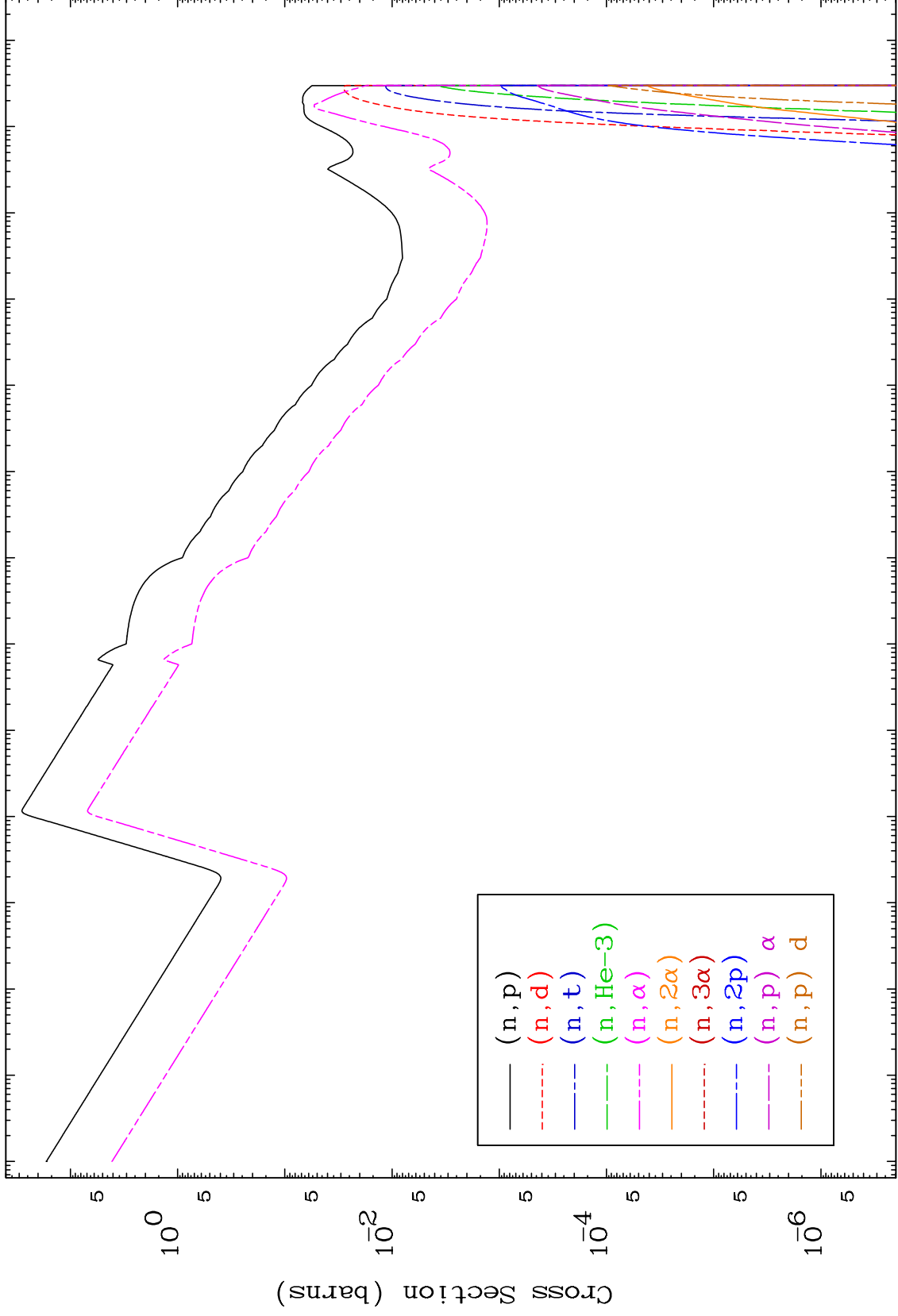
70-Yb-161



MAT 7004

Charged Particle  
293 Kelvin Cross Sections

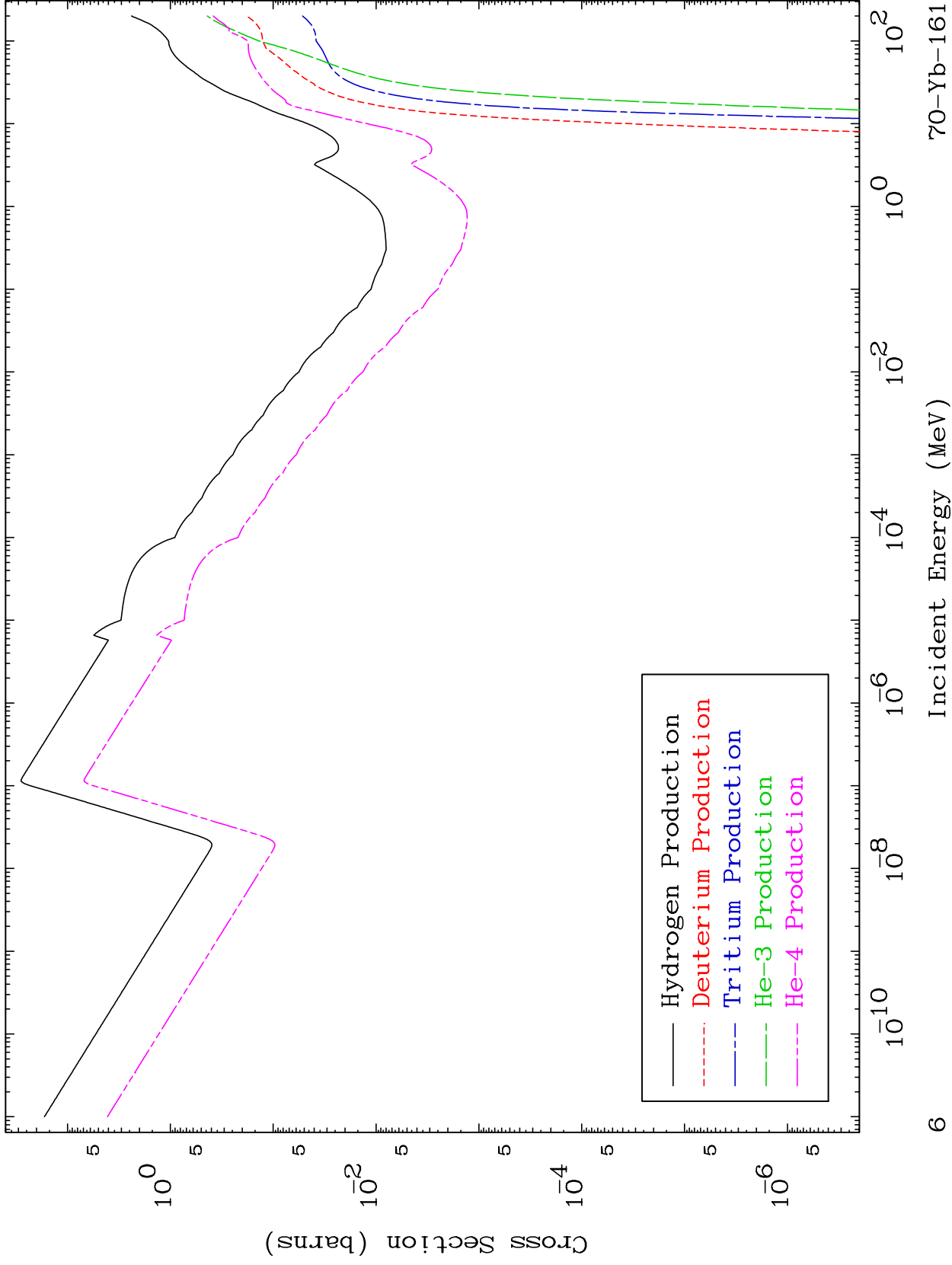
70-Yb-161

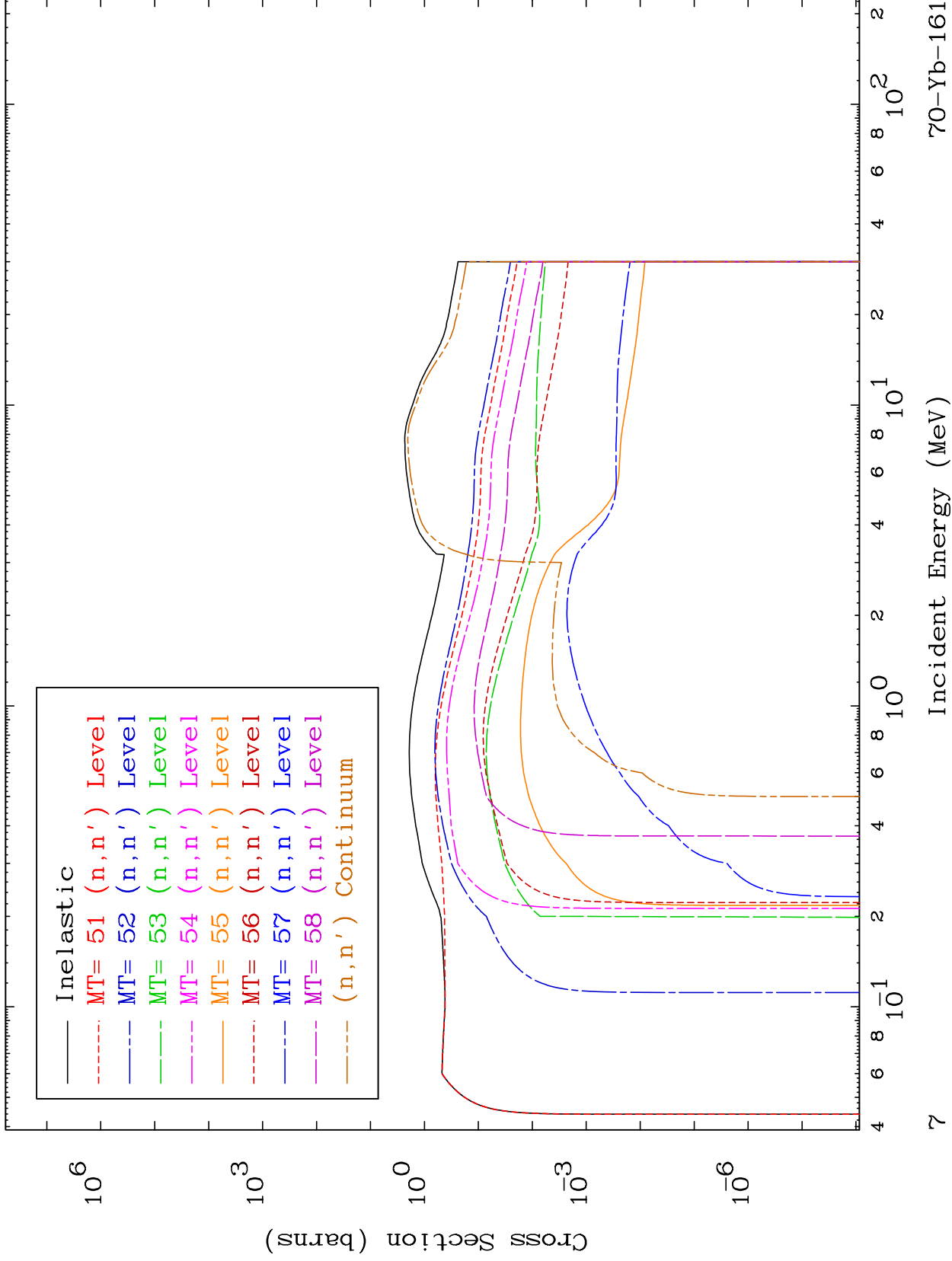


MAT 7004

Particle Production  
293 Kelvin Cross Sections

70-Yb-161

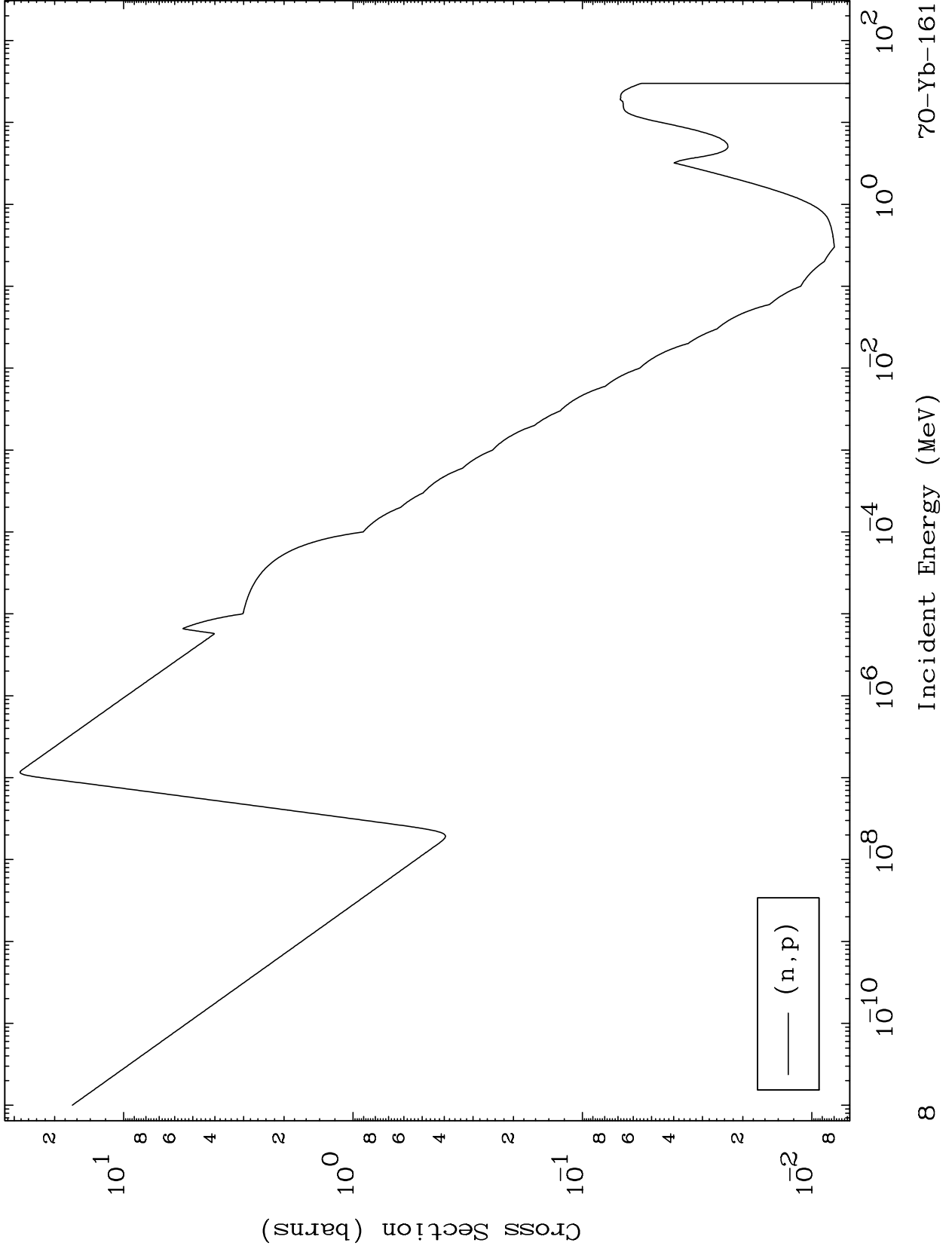




MAT 7004

(n,p) Levels  
293 Kelvin Cross Sections

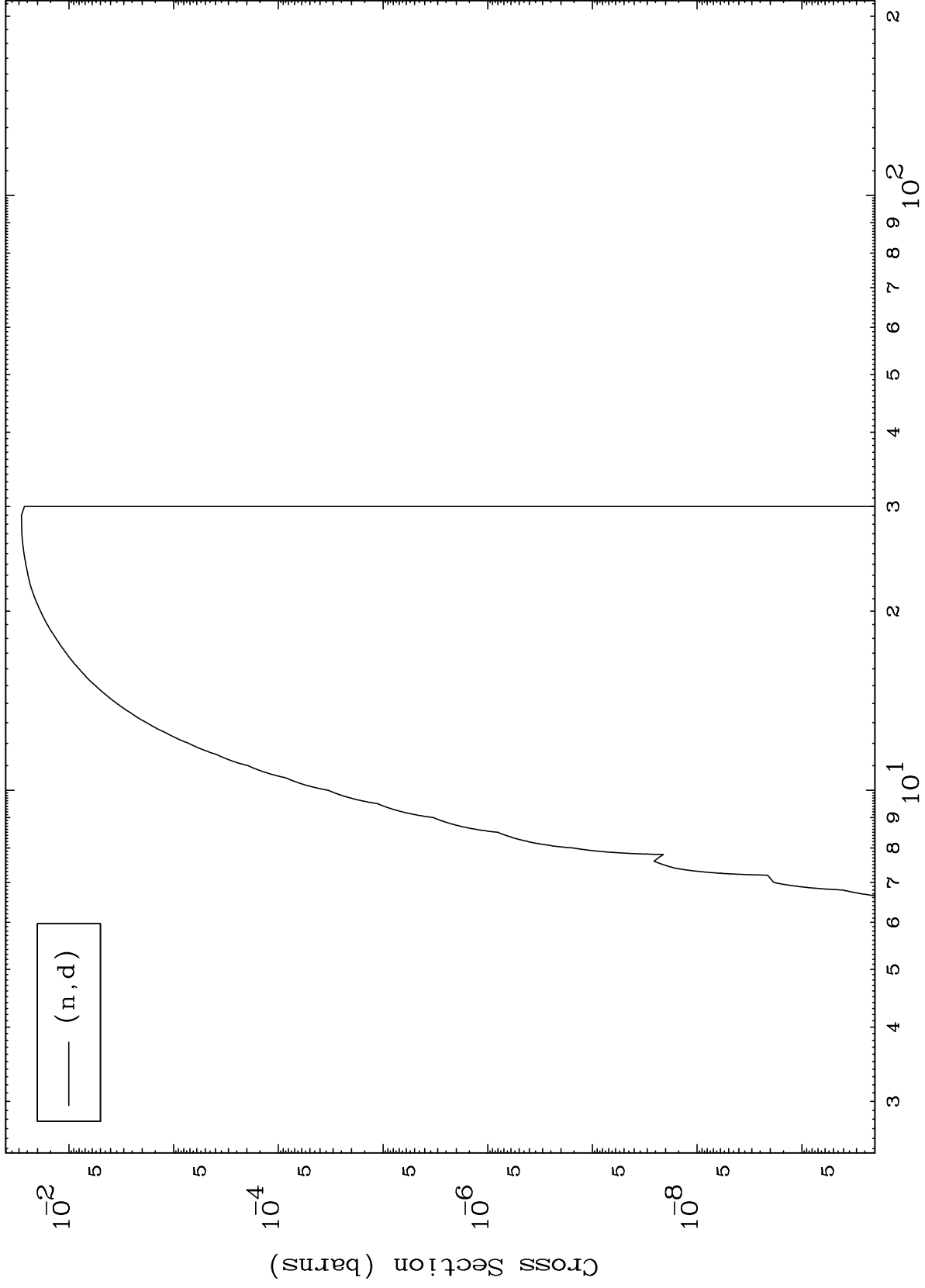
70-Yb-161



MAT 7004

(n,d) Levels  
293 Kelvin Cross Sections

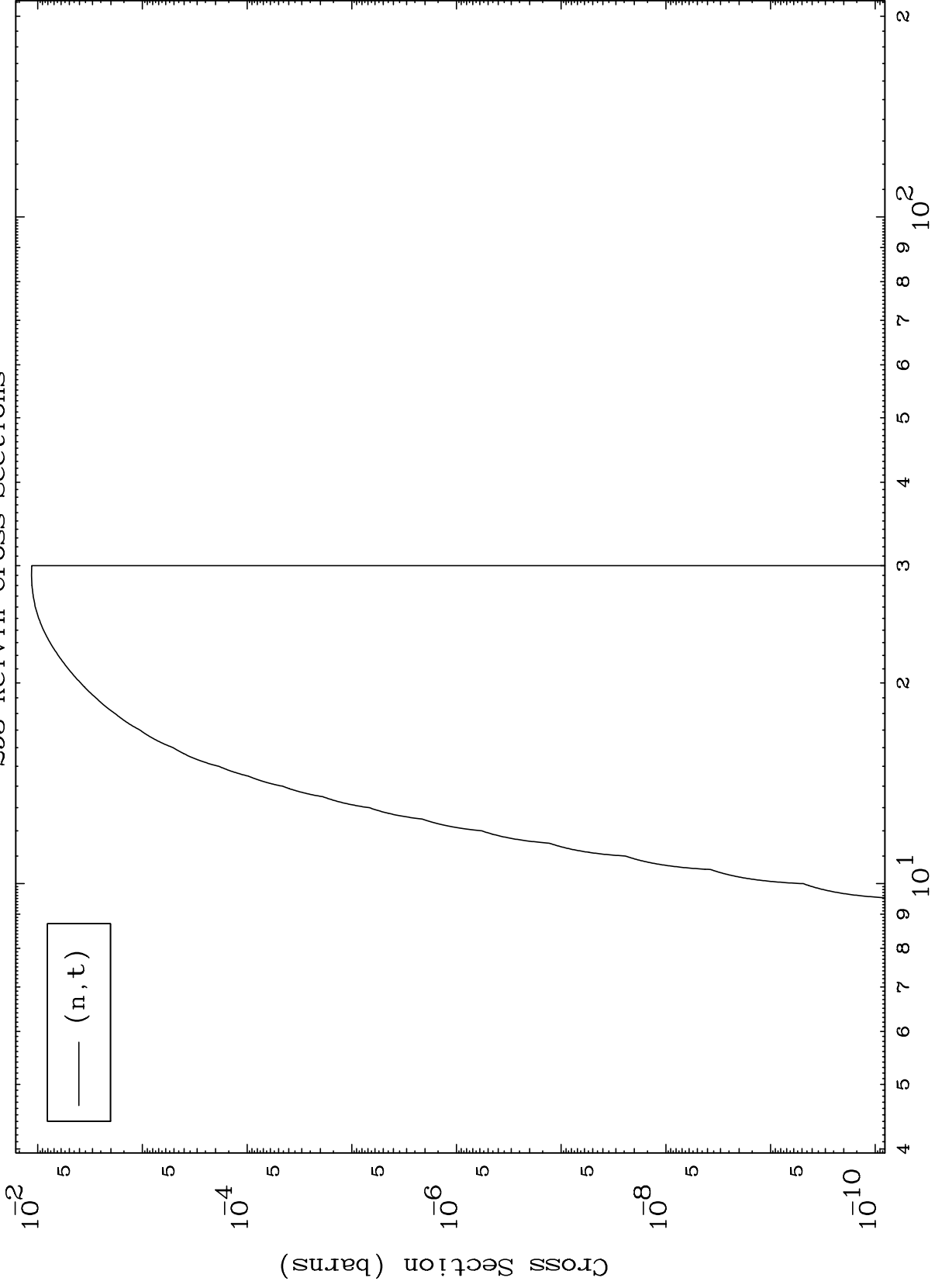
70-Yb-161



MAT 7004

(n,t) Levels  
293 Kelvin Cross Sections

70-Yb-161



10

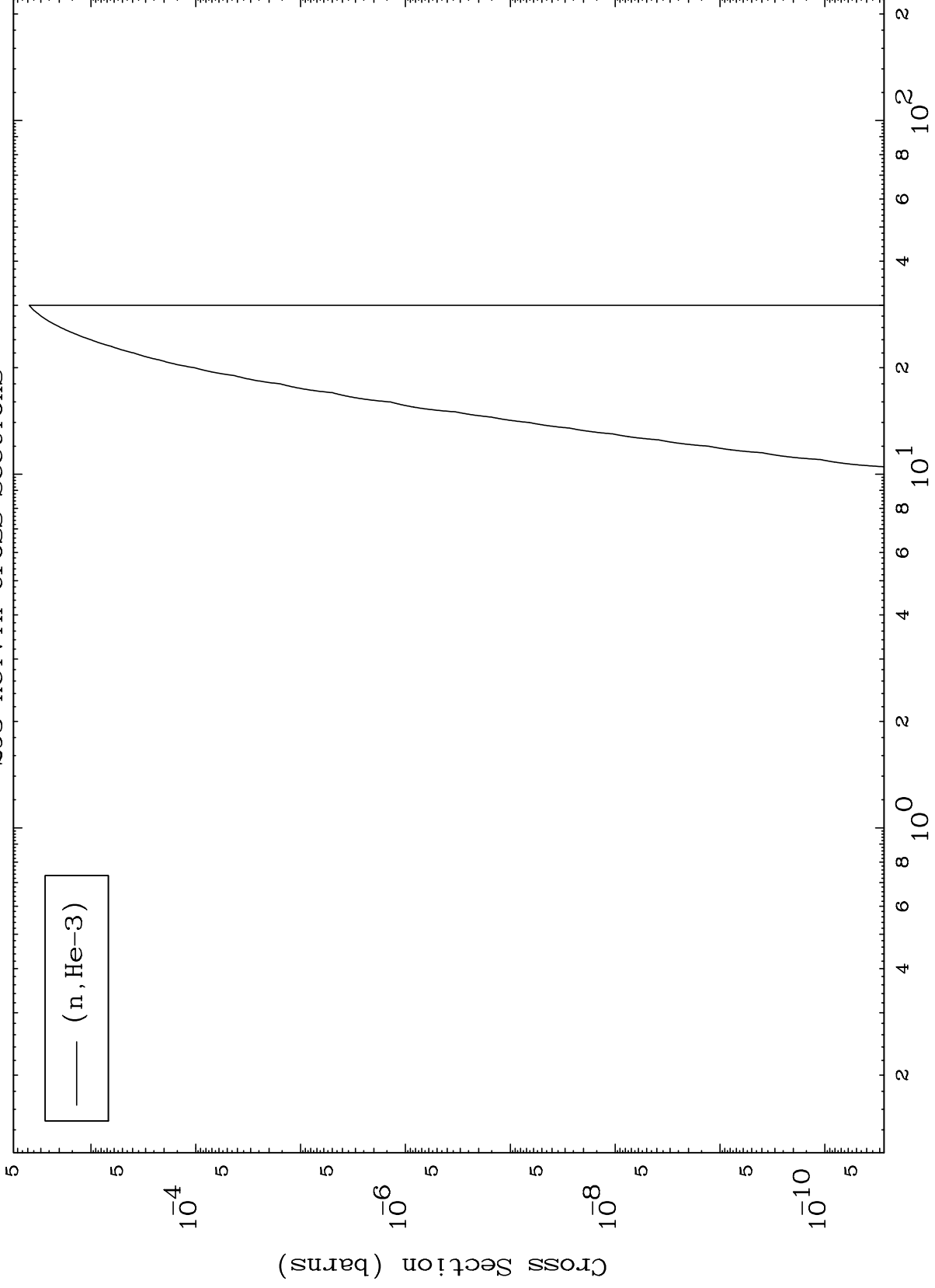
Incident Energy (MeV)

70-Yb-161

MAT 7004

(n,He3) Levels  
293 Kelvin Cross Sections

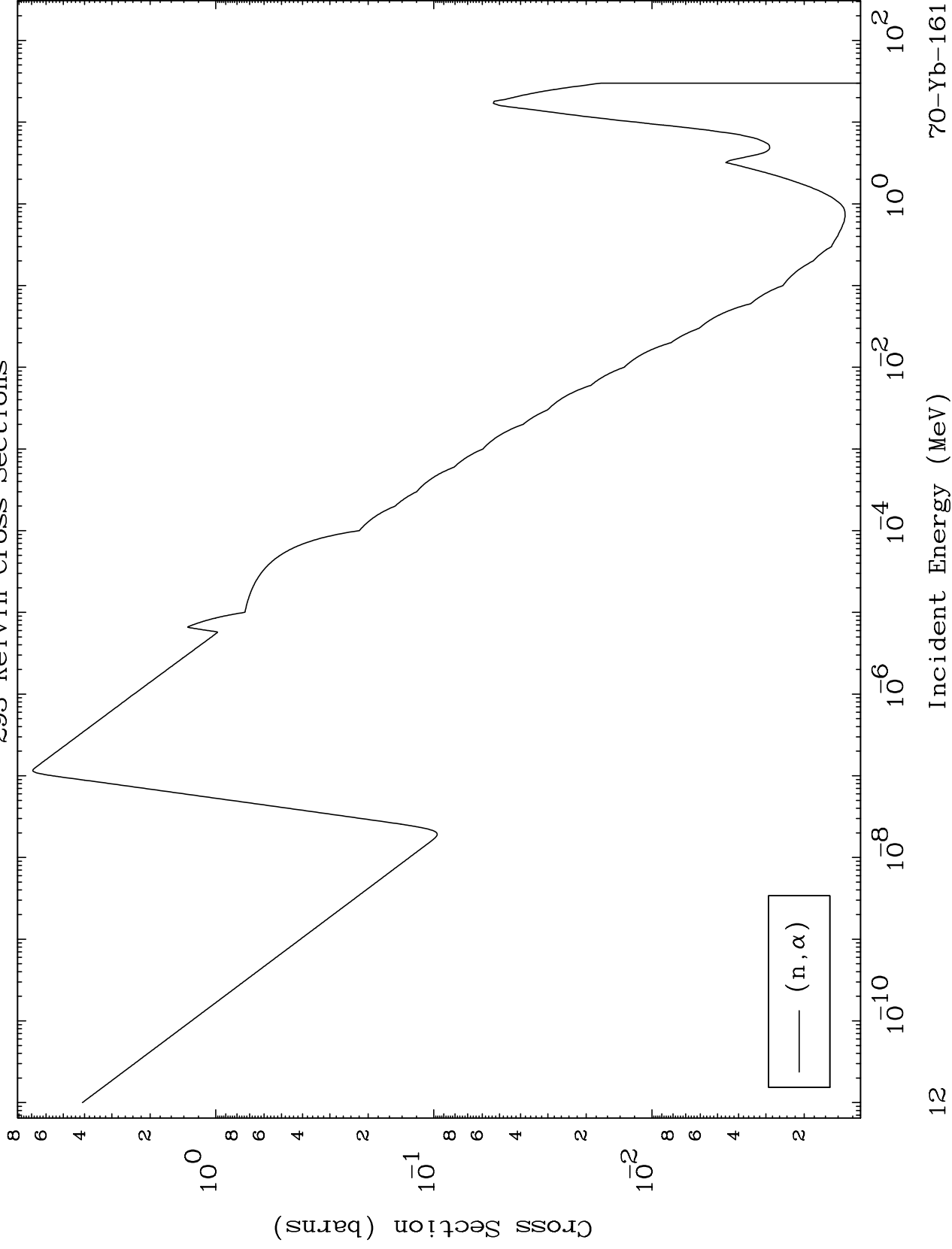
70-Yb-161

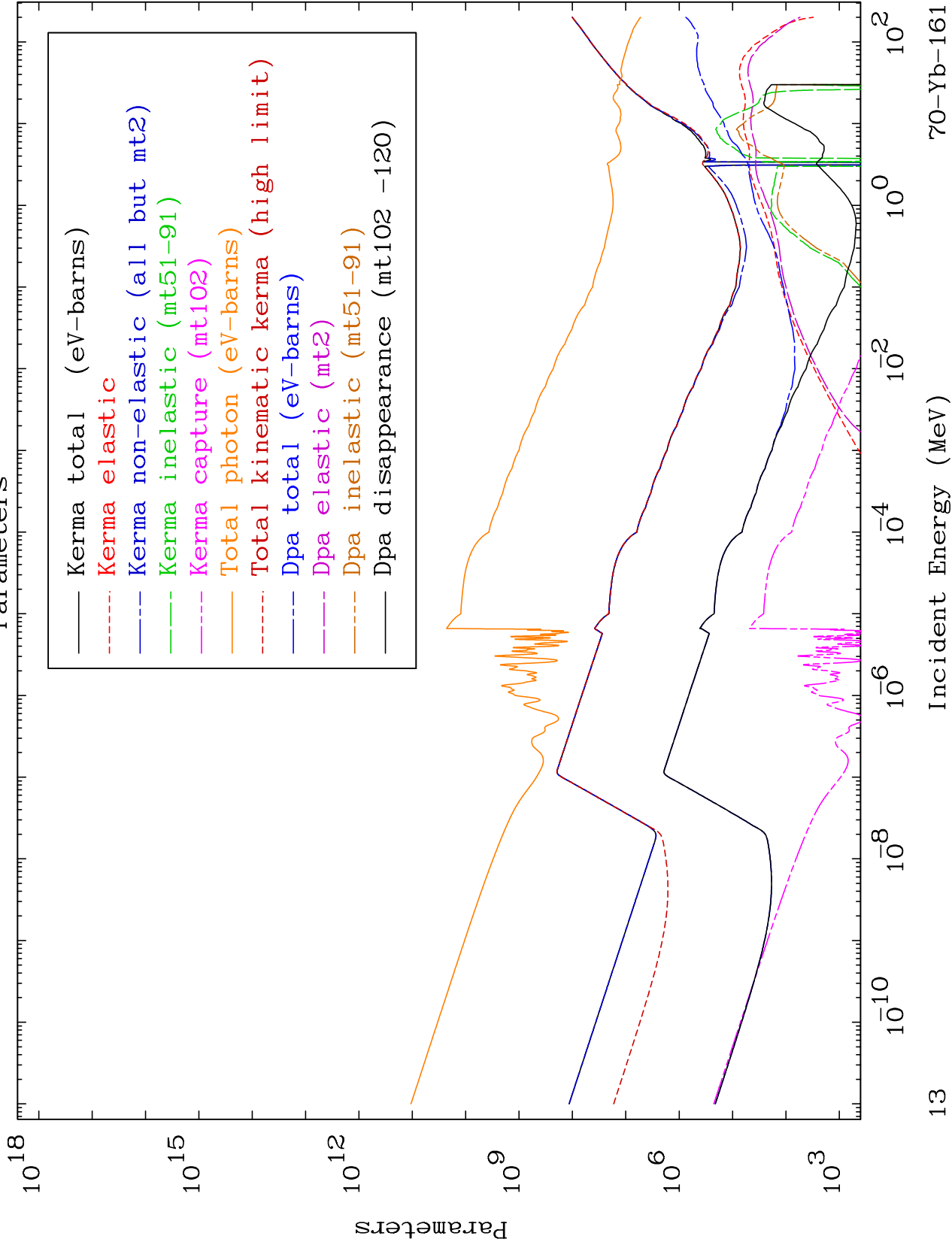


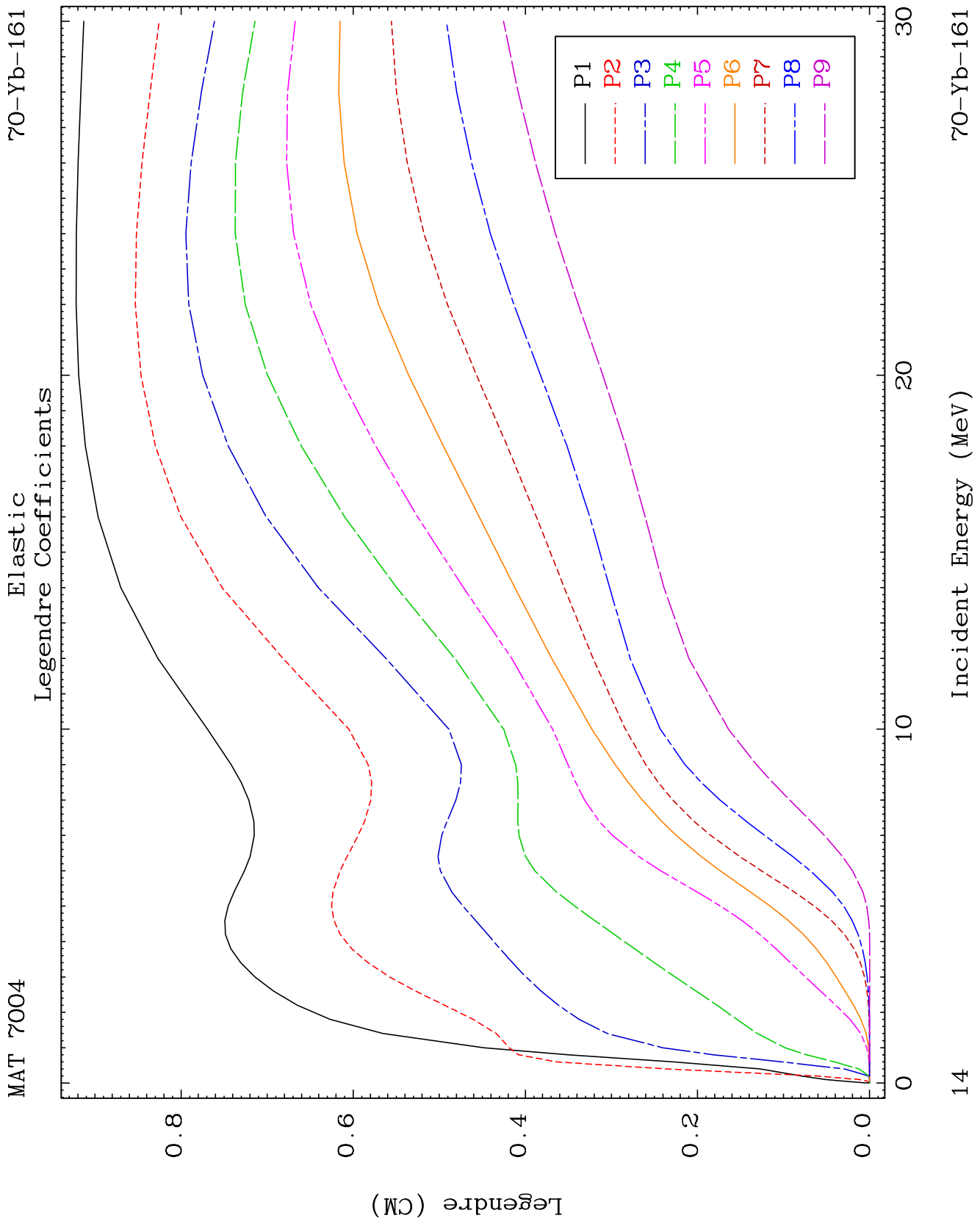
MAT 7004

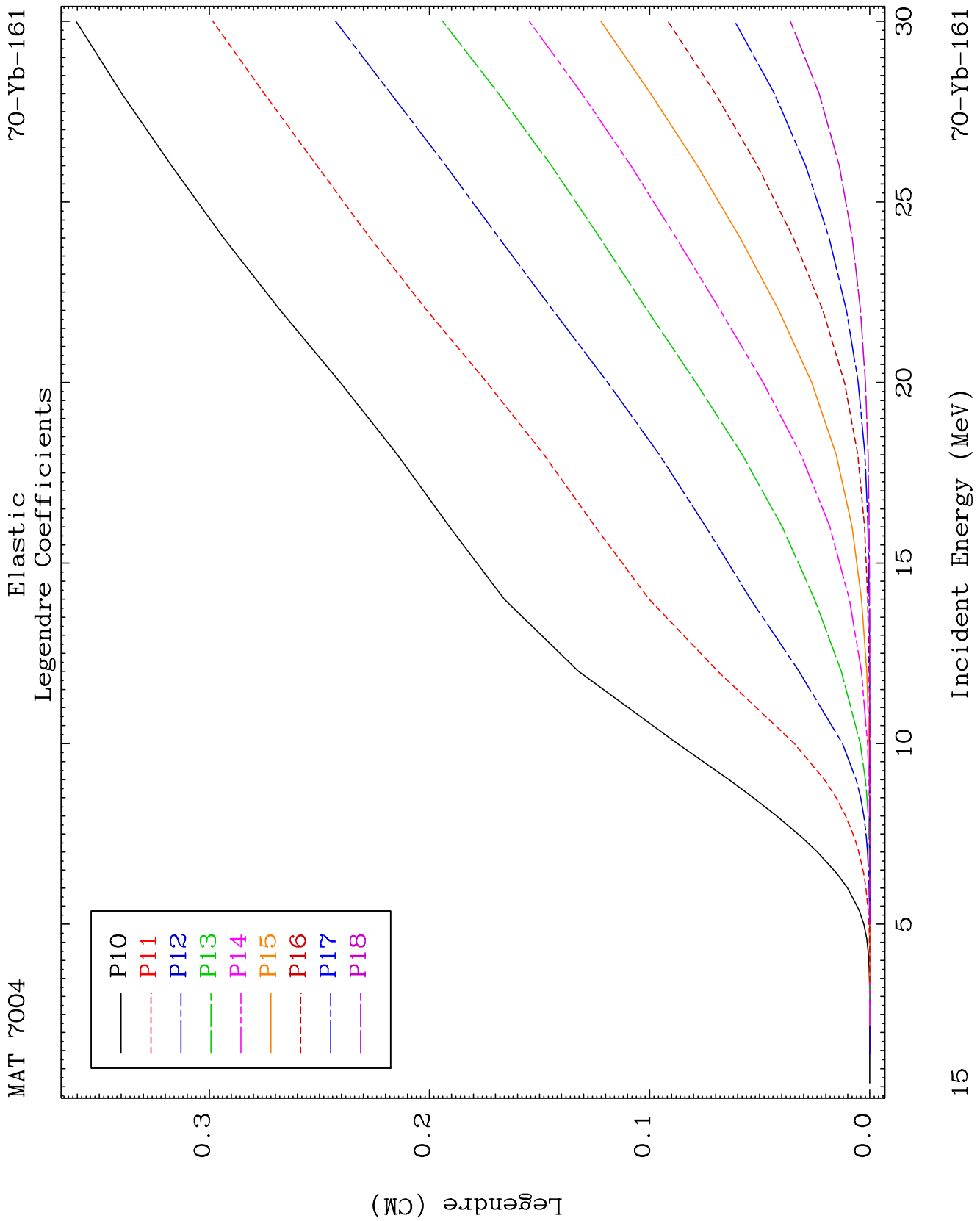
(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

70-Yb-161





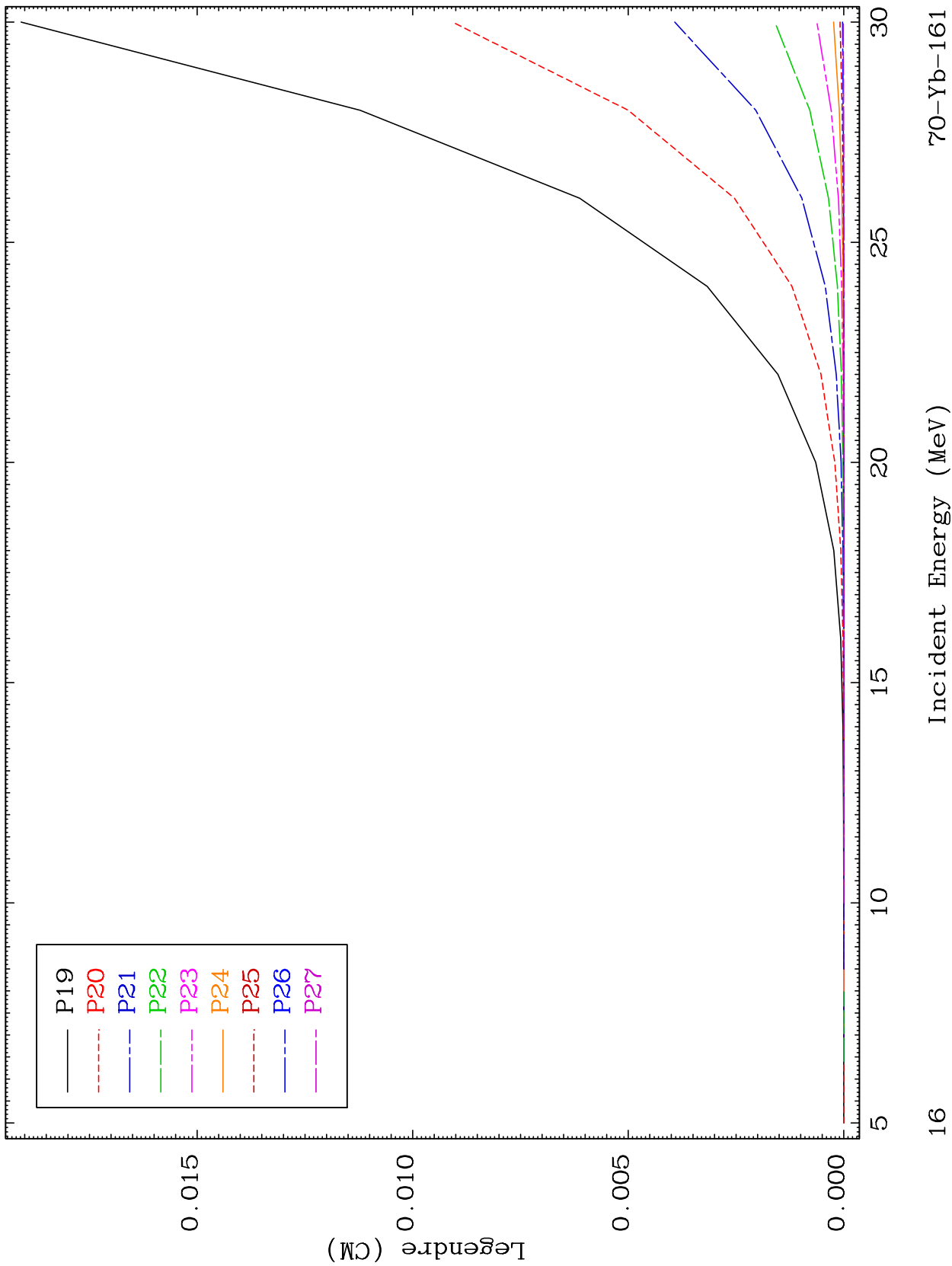




MAT 7004

Elastic  
Legendre Coefficients

70-Yb-161



70-Yb-161

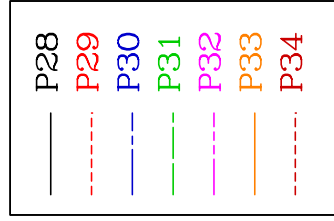
Incident Energy (MeV)

16

MAT 7004

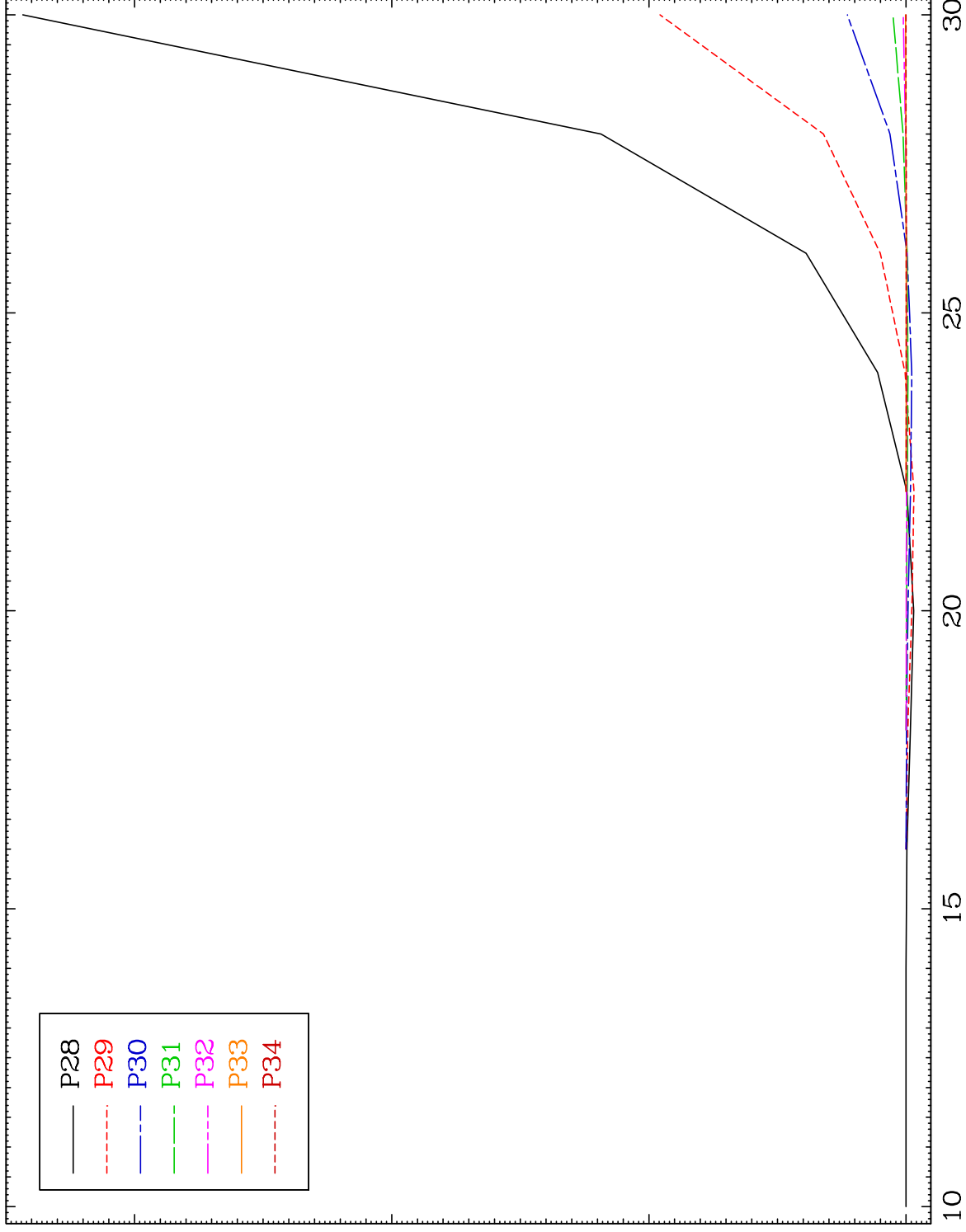
Elastic  
Legendre Coefficients

70-Yb-161



$\times 10^{-6}$

Legendre (CM)



10

15

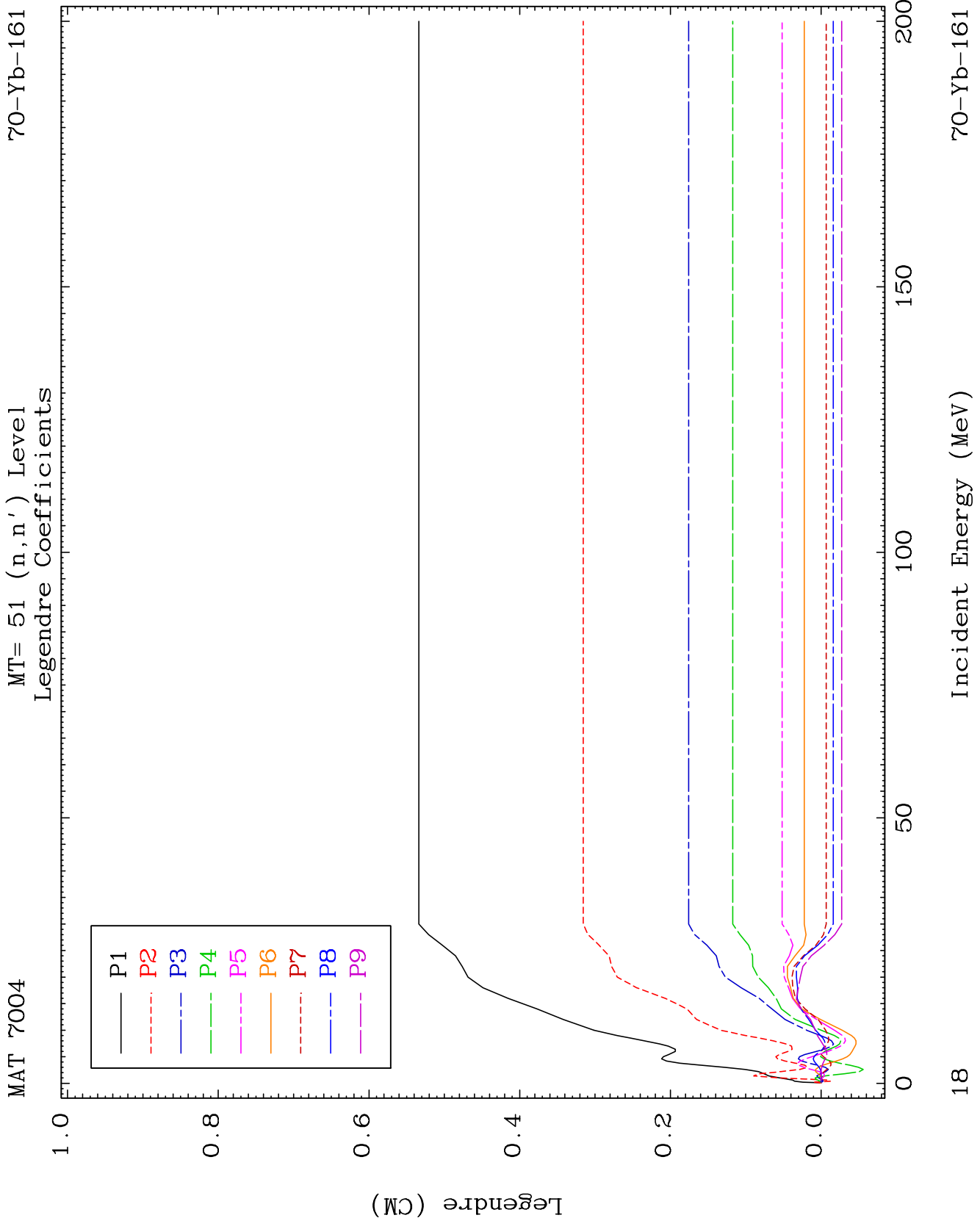
20

25

30

Incident Energy (MeV)

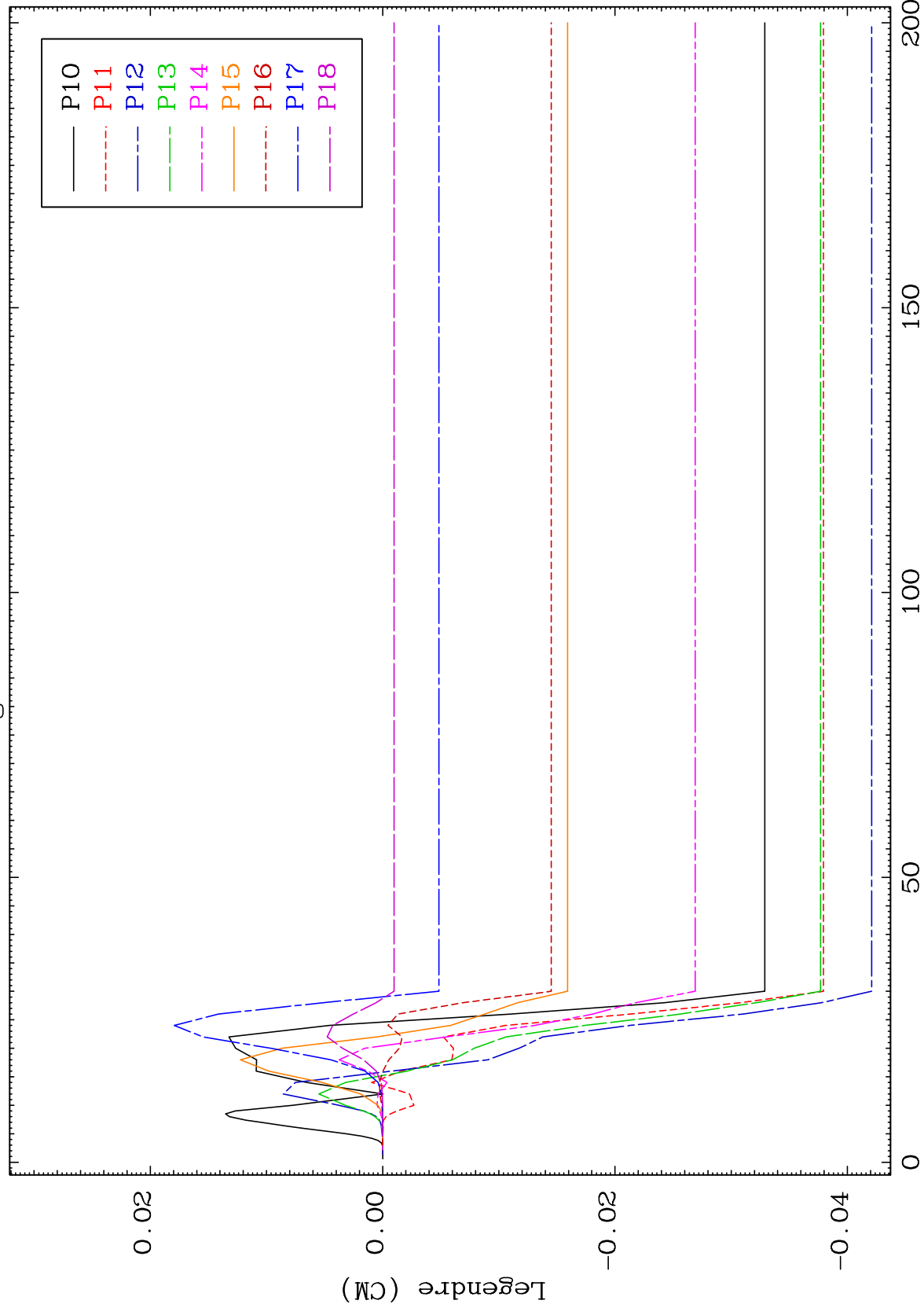
70-Yb-161



MAT 7004

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

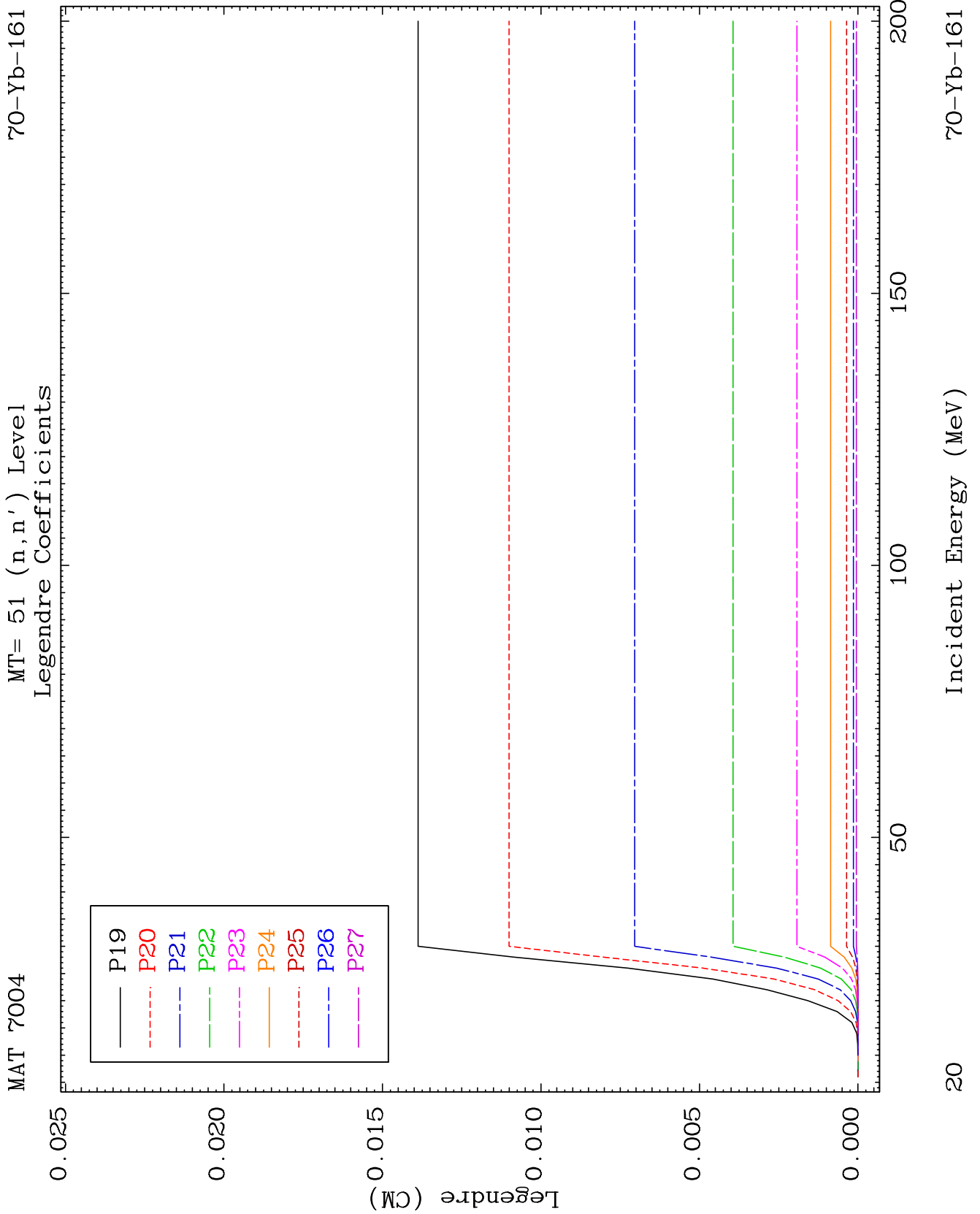
70-Yb-161



19

Incident Energy (MeV)

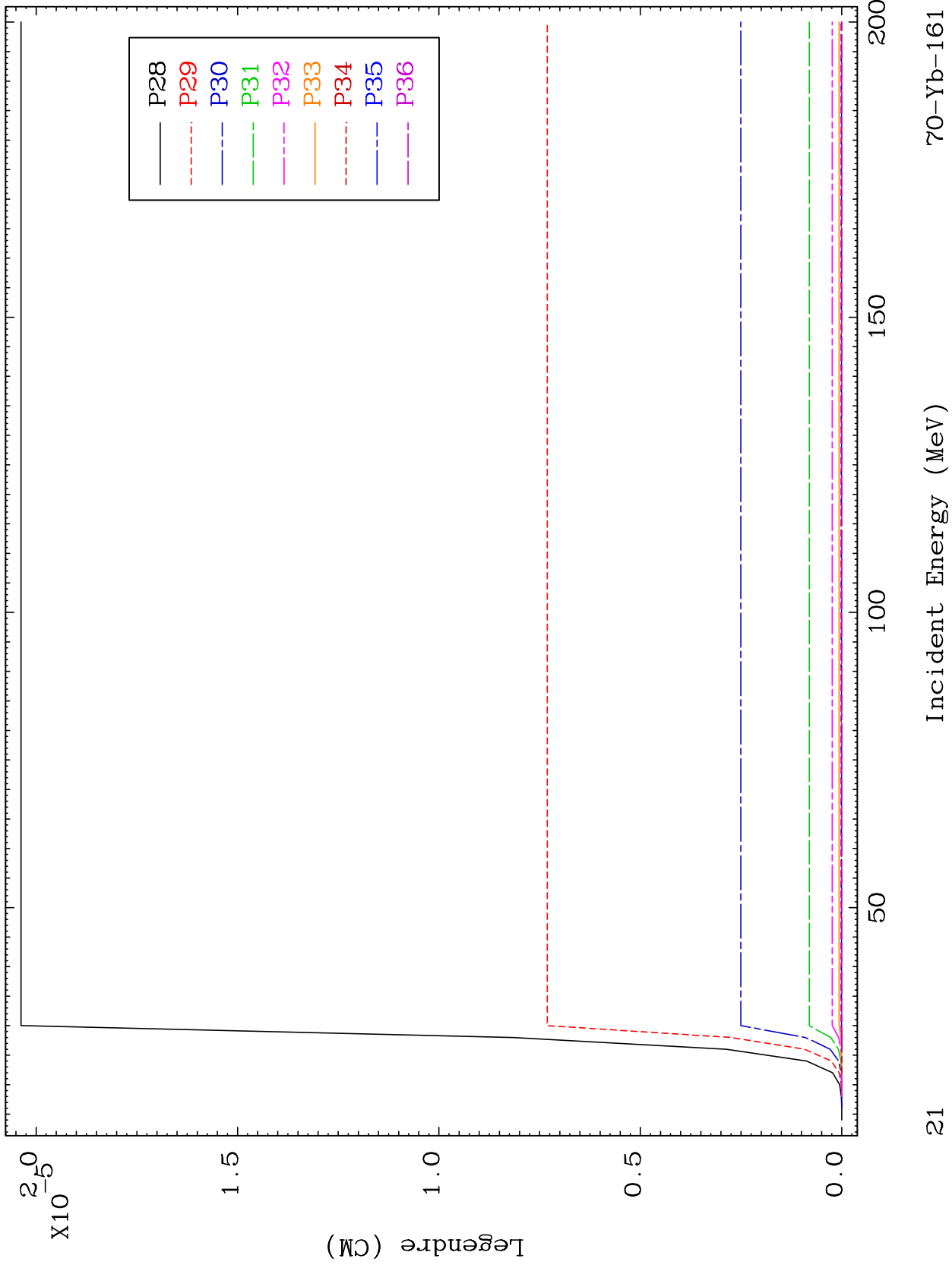
70-Yb-161

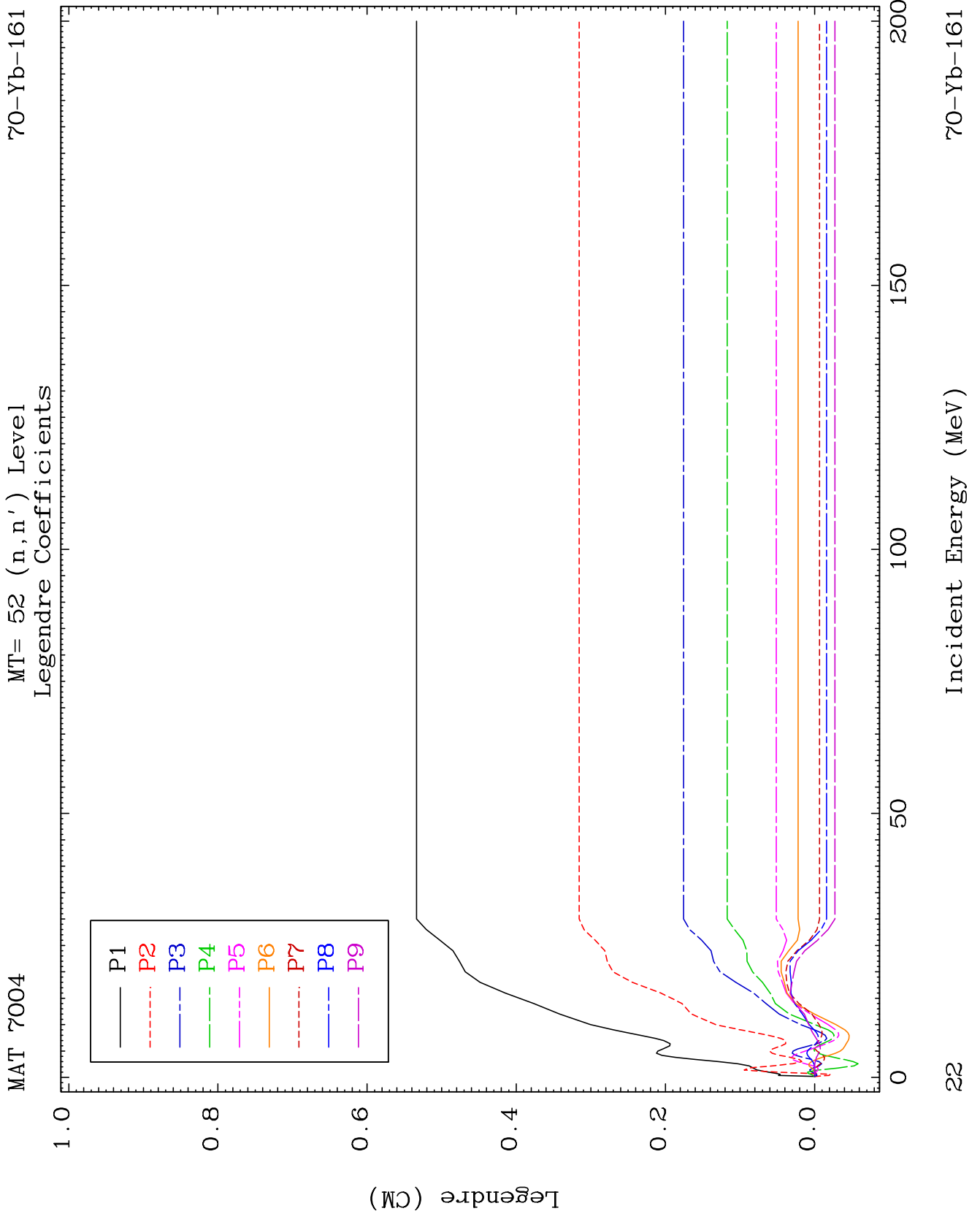


MAT 7004

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

70-Yb-161

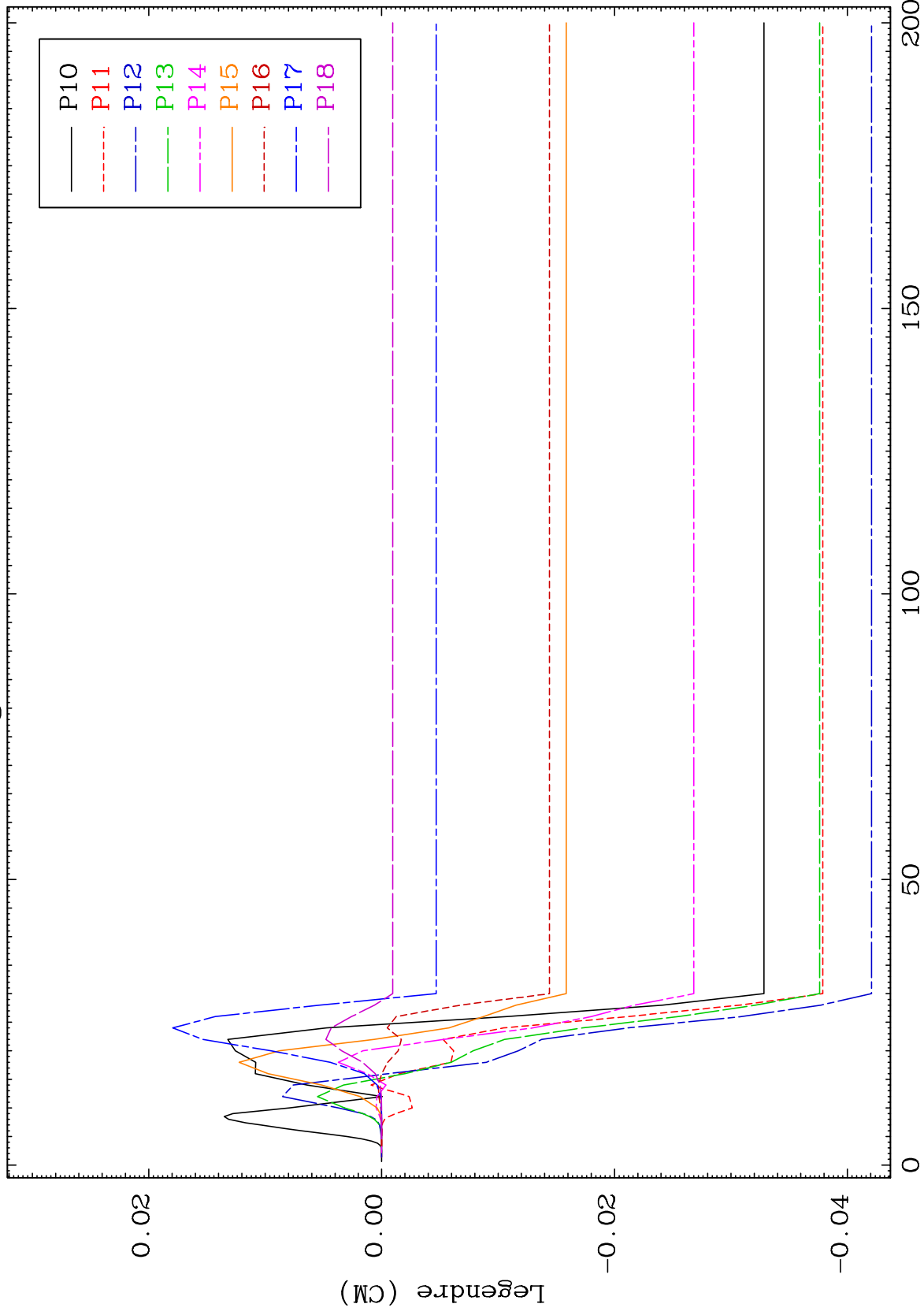




MAT 7004

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

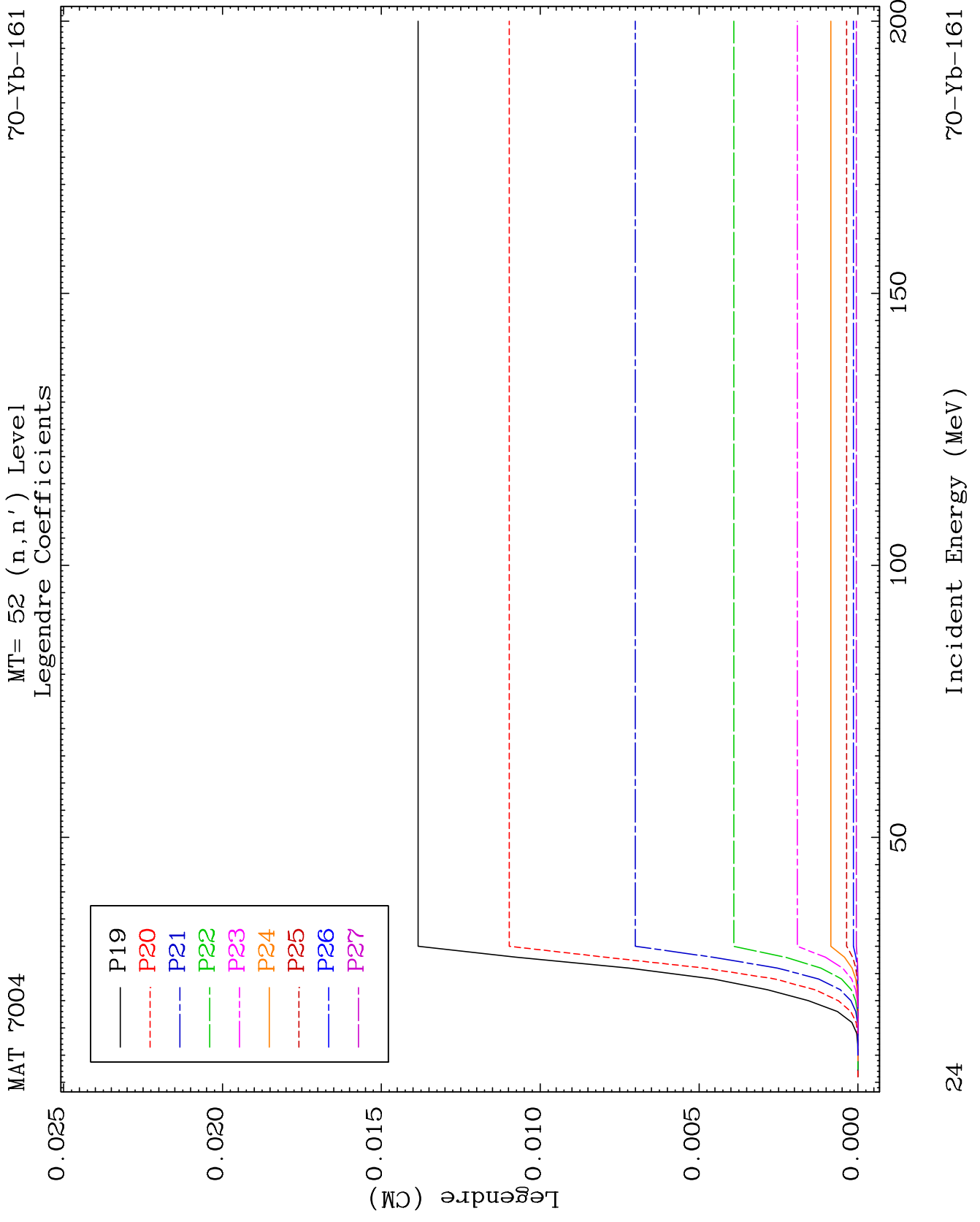
70-Yb-161



23

Incident Energy (MeV)

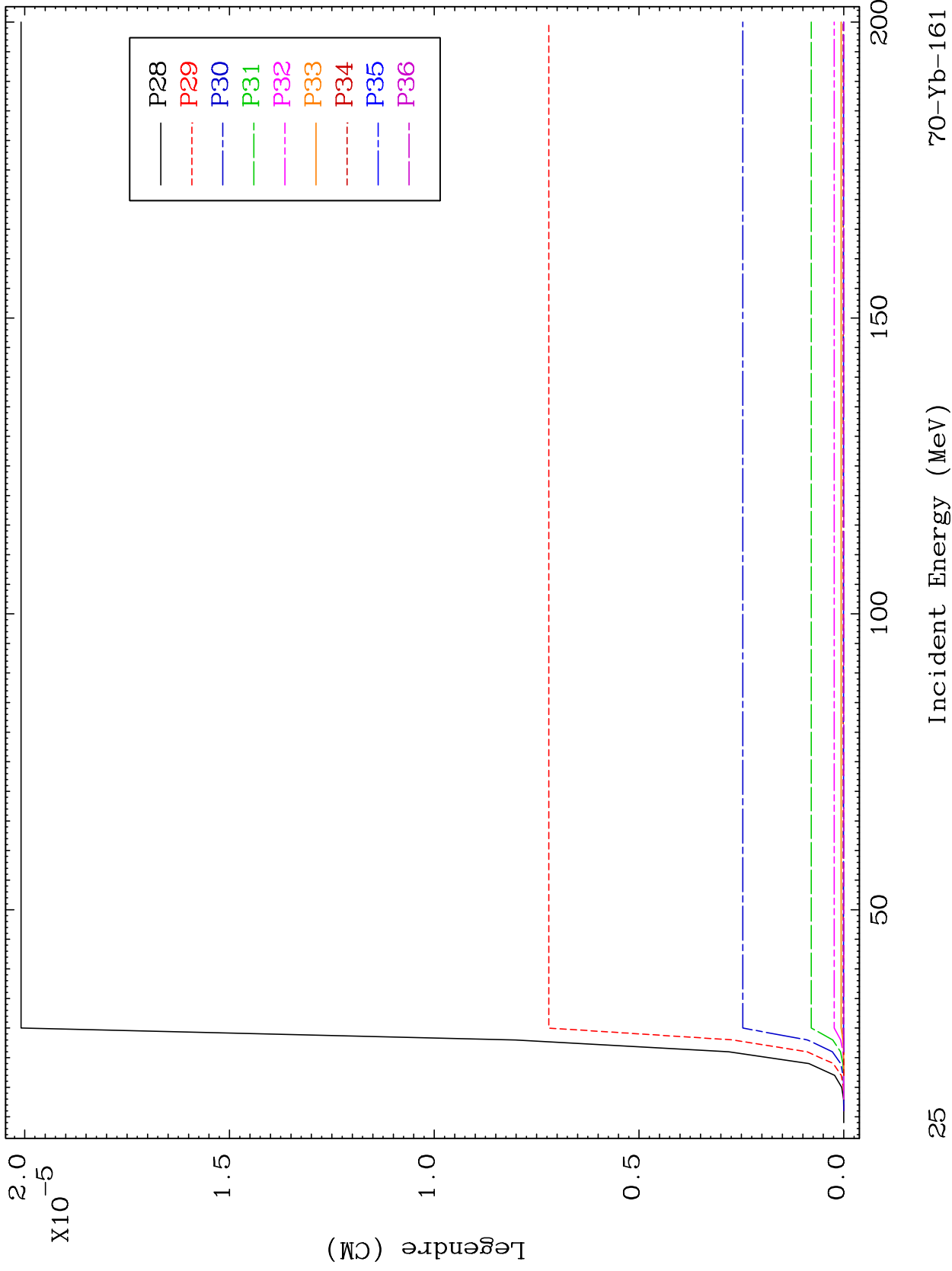
70-Yb-161



MAT 7004

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

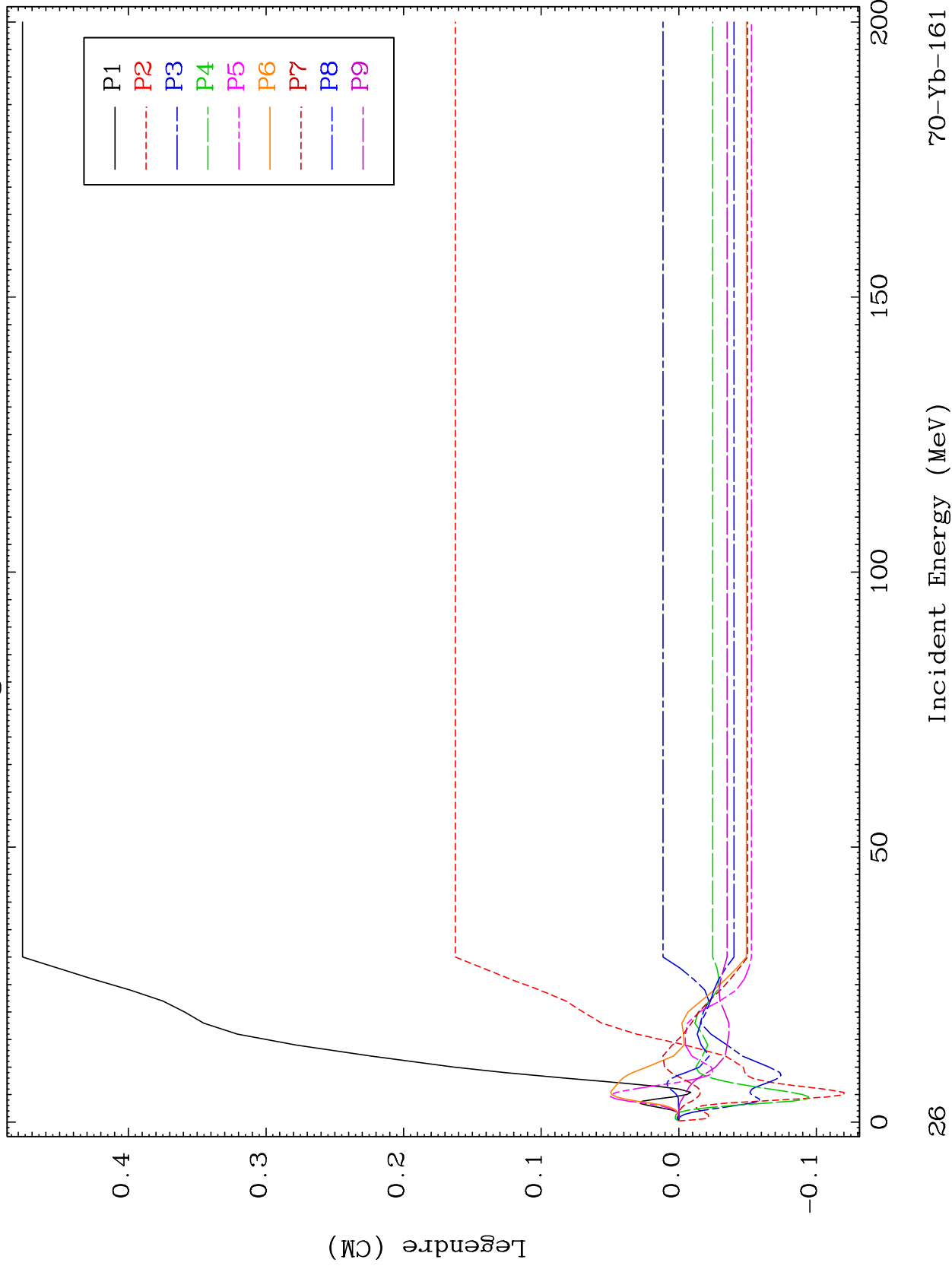
70-Yb-161



MAT 7004

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

70-Yb-161



70-Yb-161

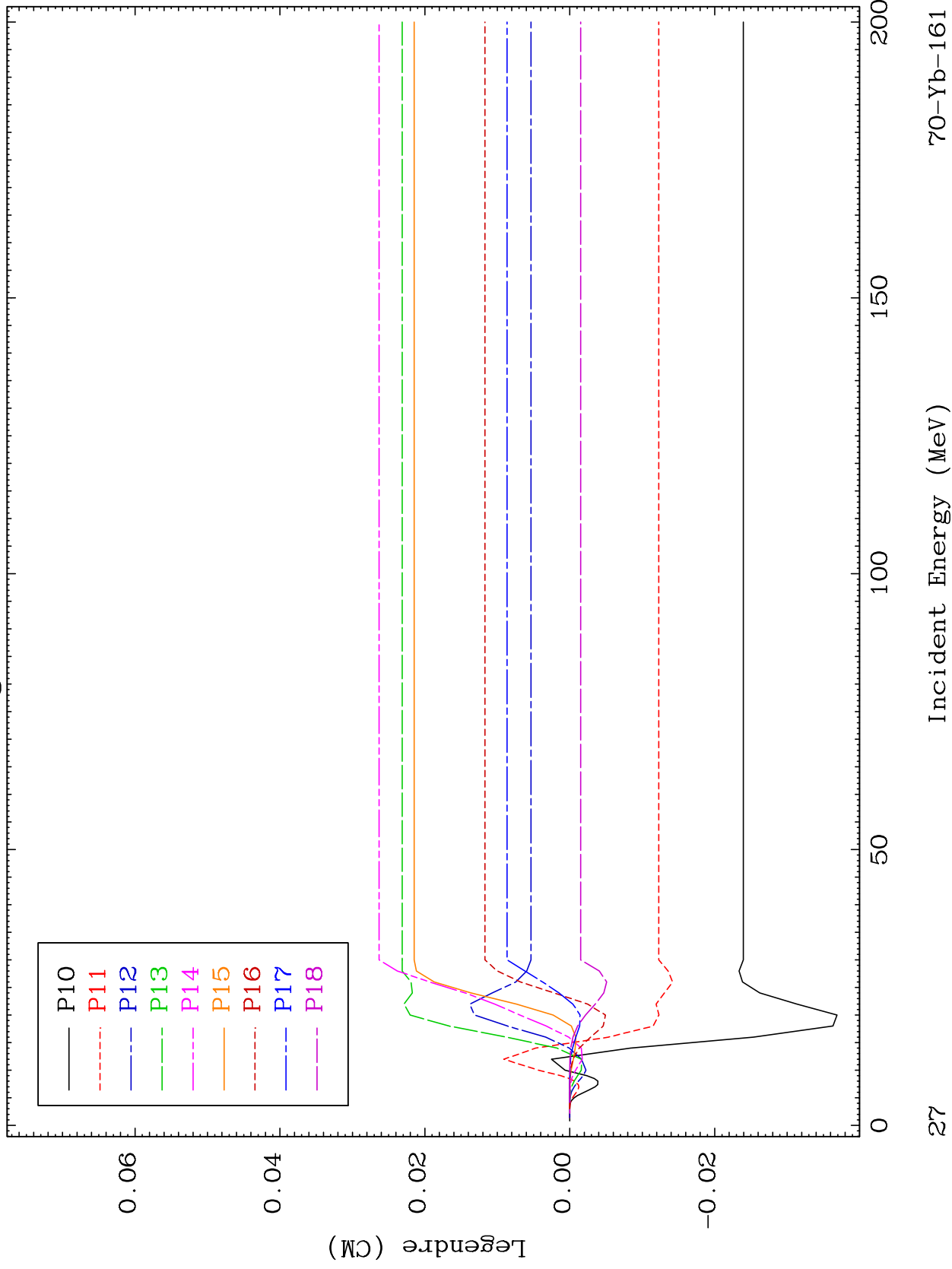
Incident Energy (MeV)

26

MAT 7004

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

70-Yb-161



27

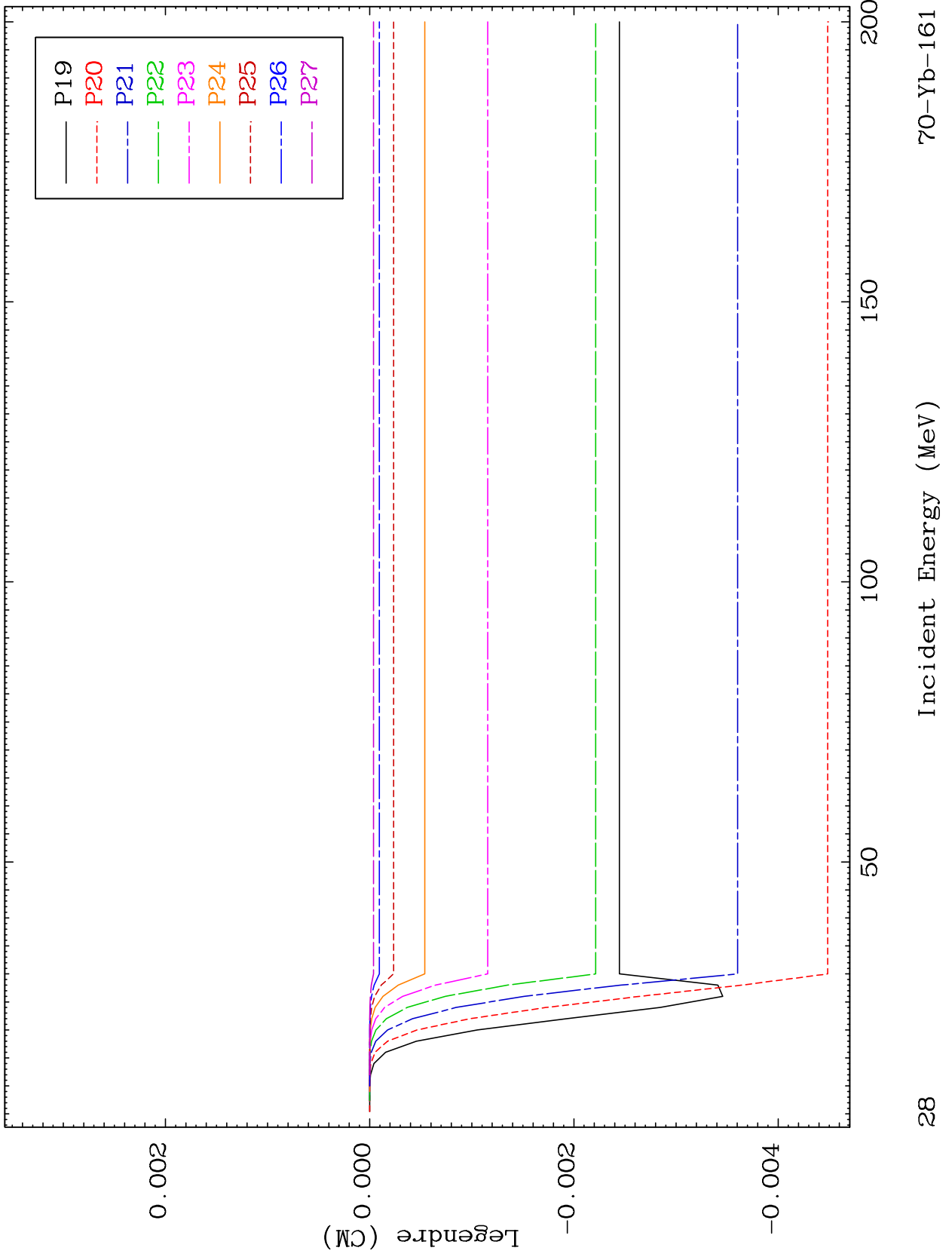
Incident Energy (MeV)

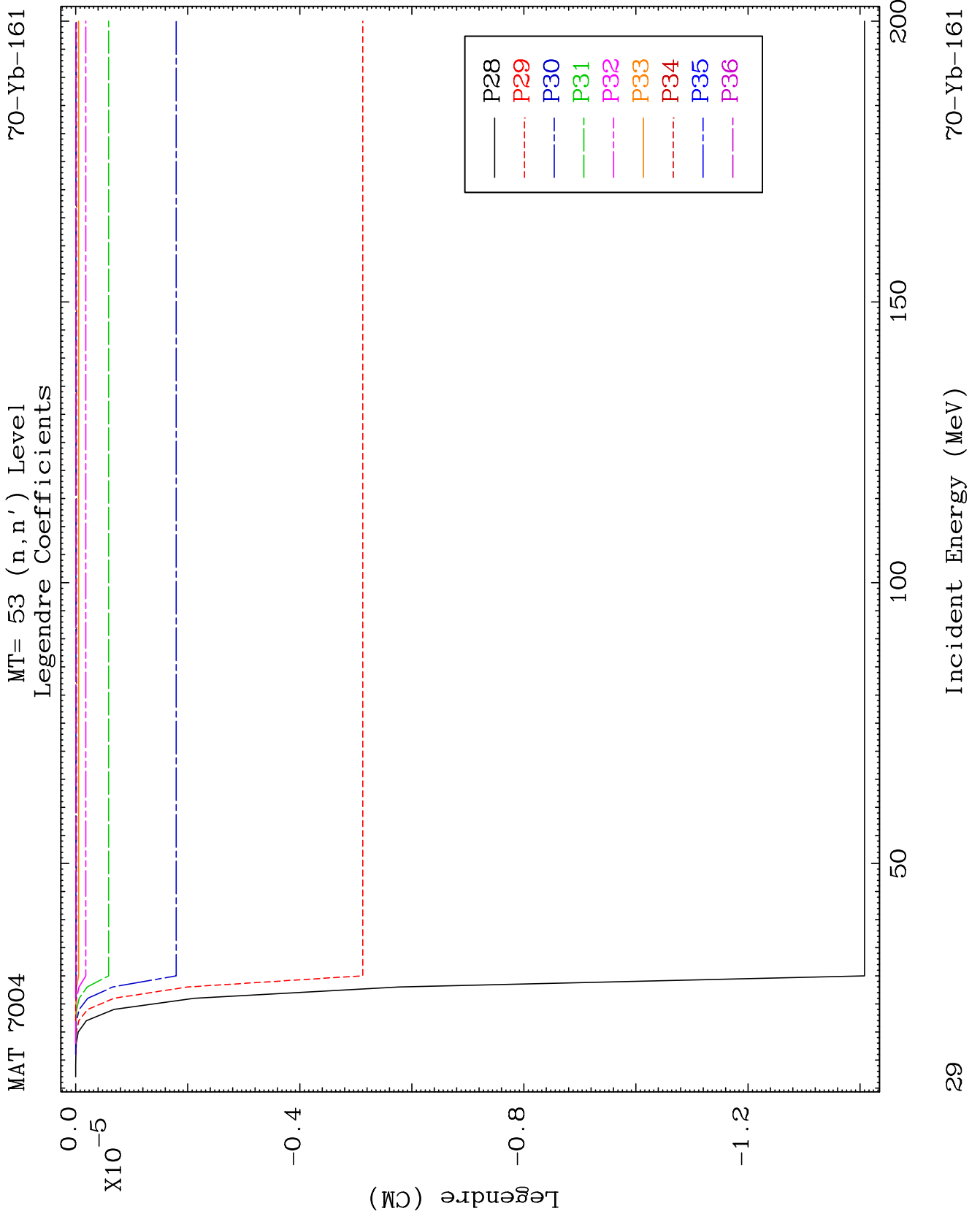
70-Yb-161

MAT 7004

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

70-Yb-161



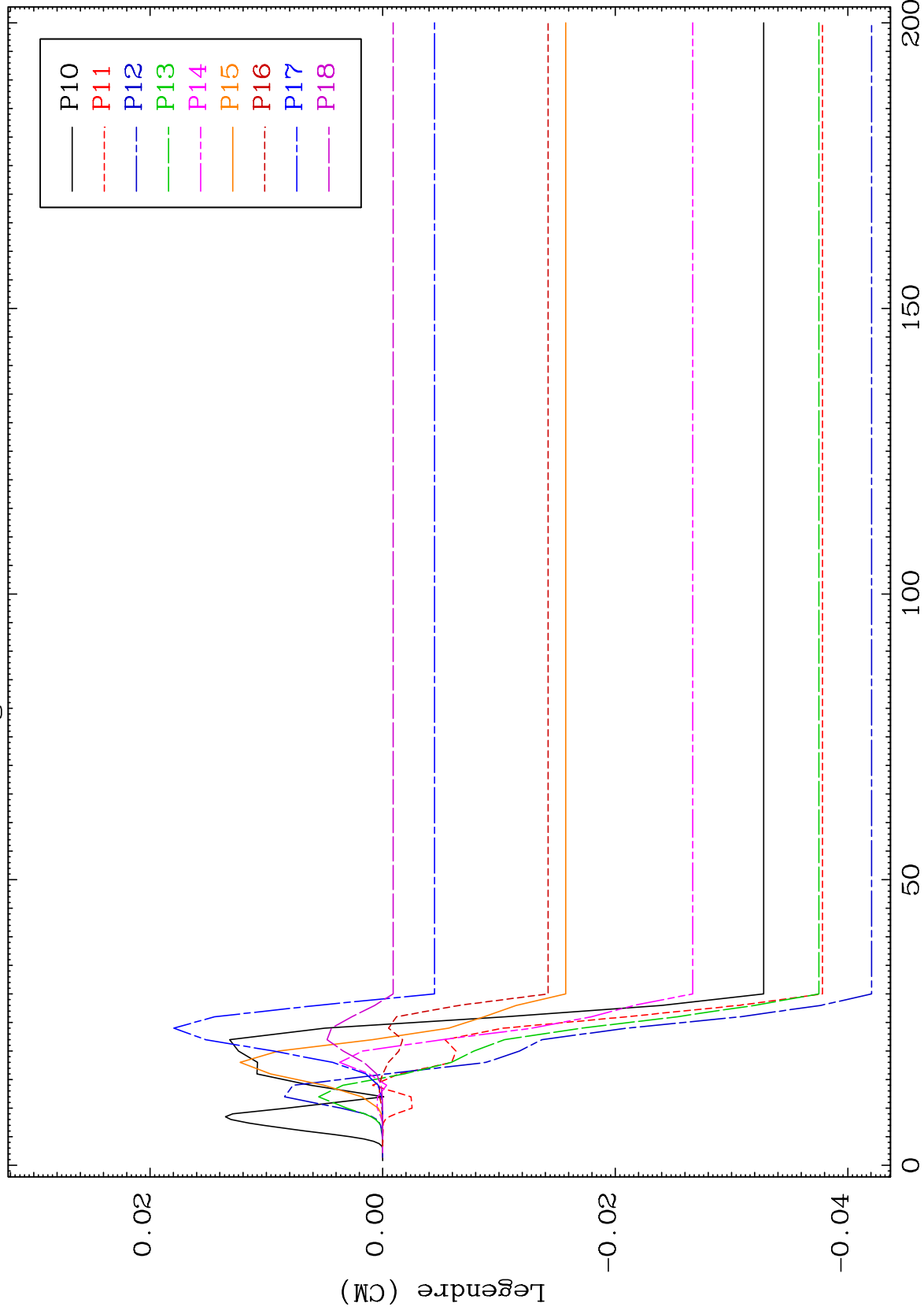




MAT 7004

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

70-Yb-161



31

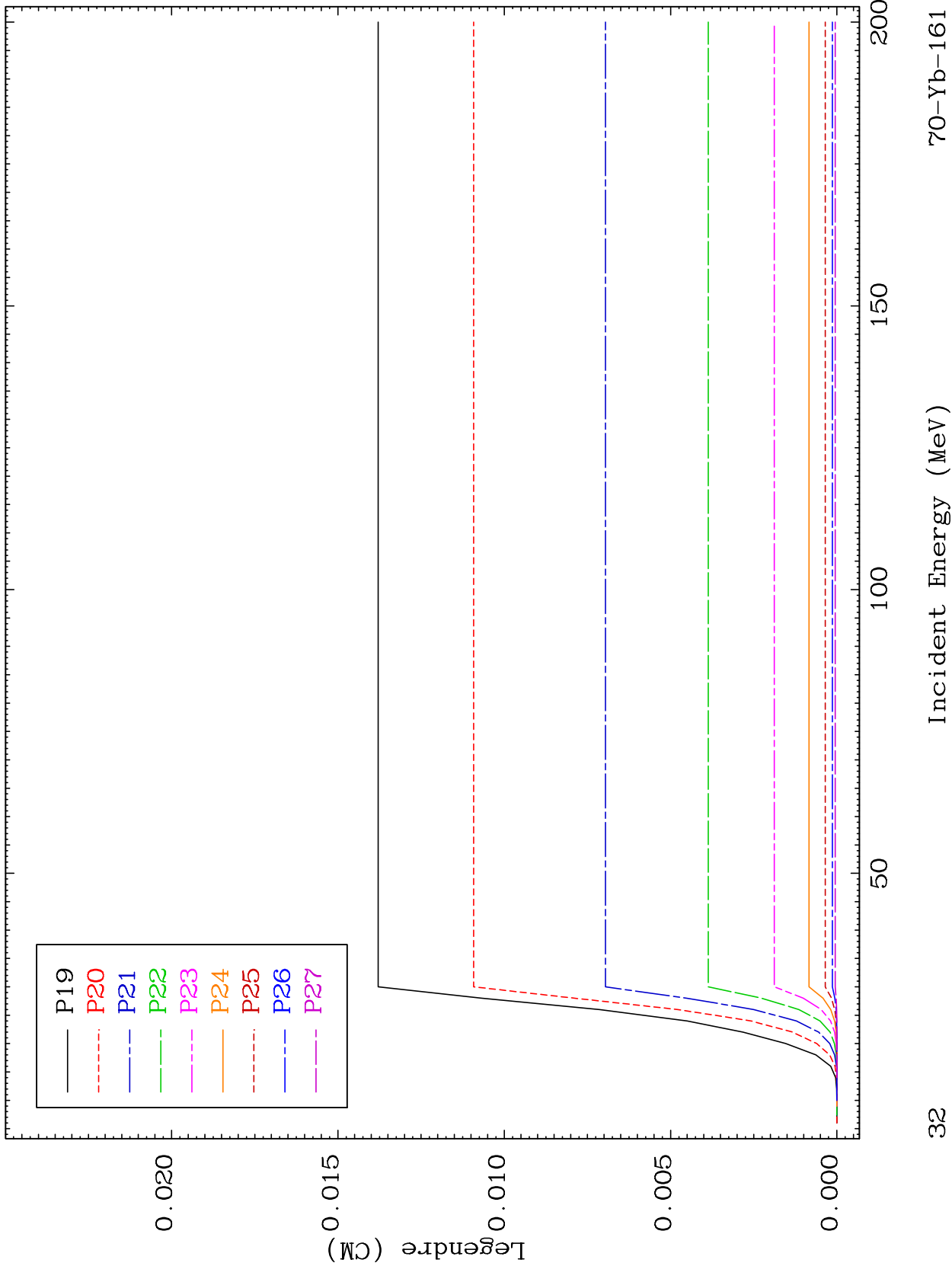
Incident Energy (MeV)

70-Yb-161

MAT 7004

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

70-Yb-161

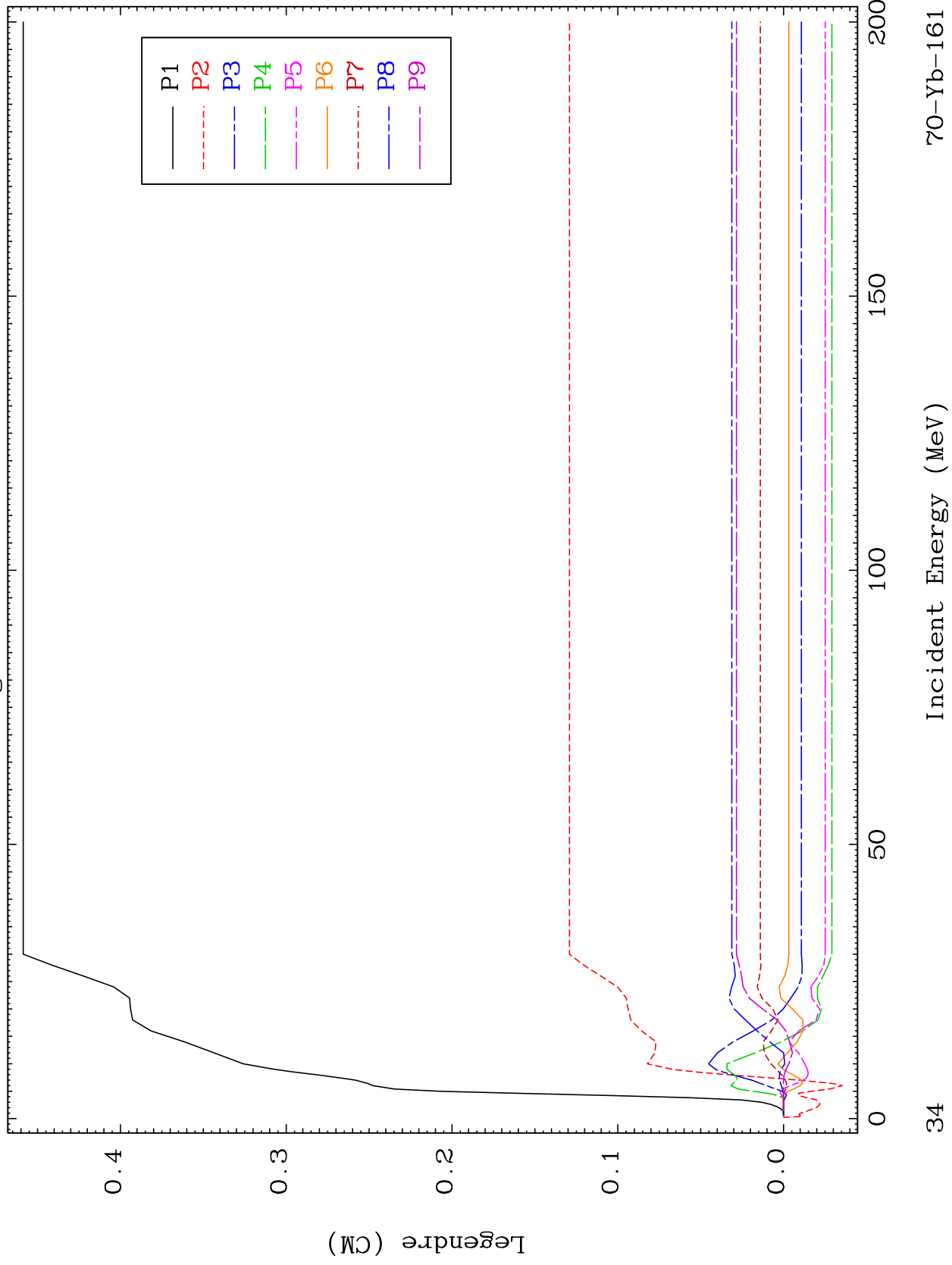




MAT 7004

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

70-Yb-161



34

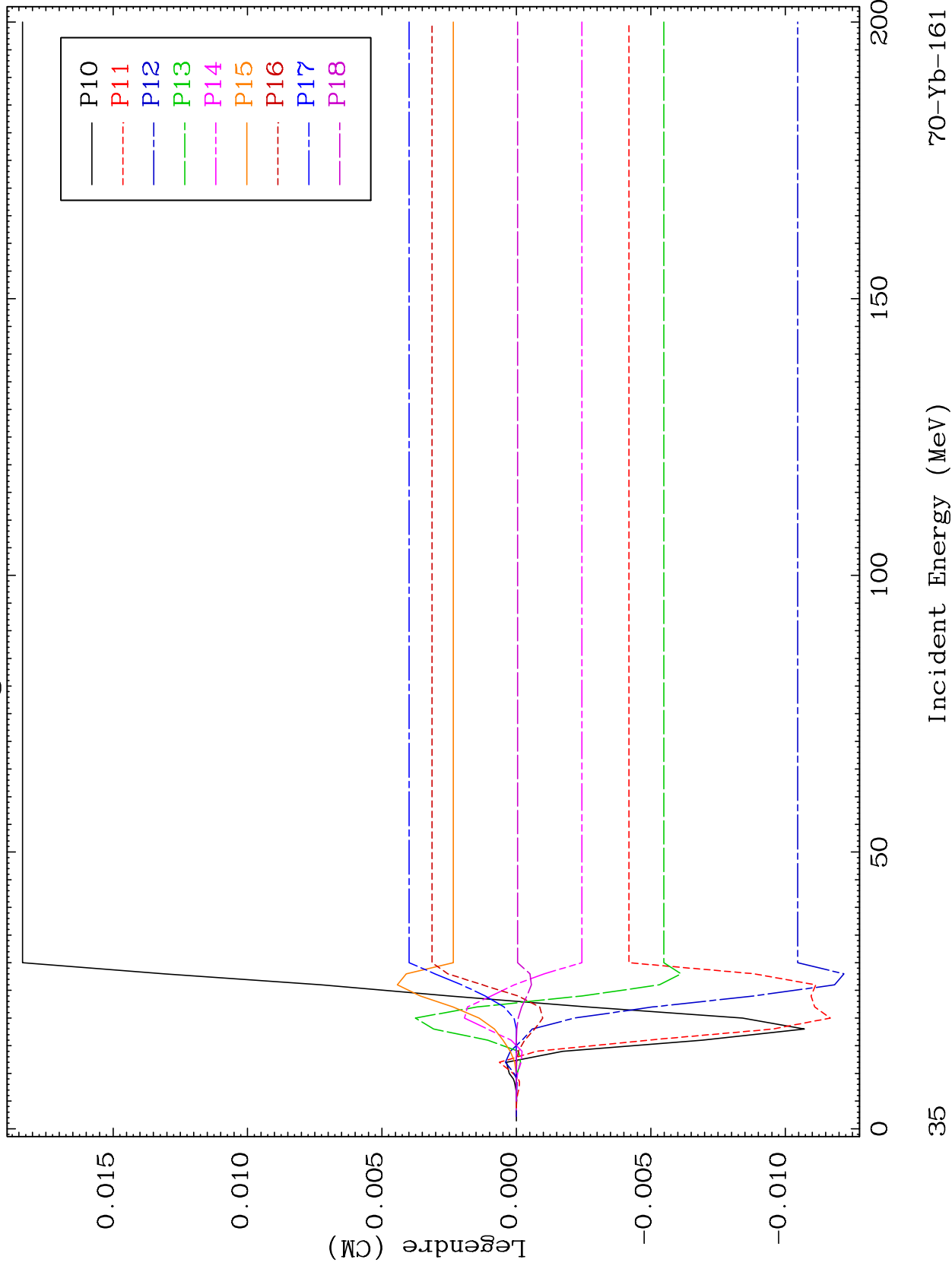
Incident Energy (MeV)

70-Yb-161

MAT 7004

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

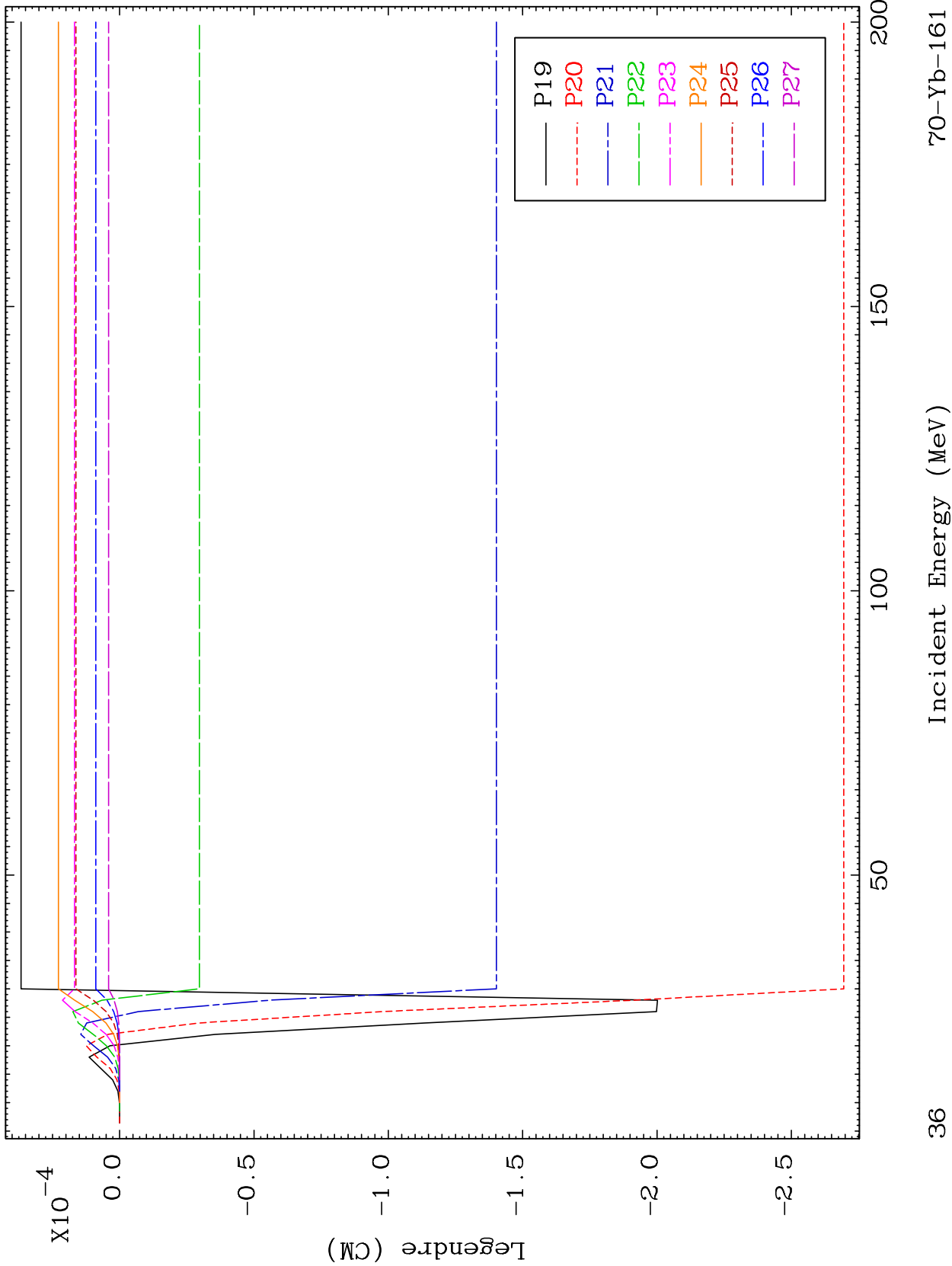
70-Yb-161



70-Yb-161

Incident Energy (MeV)

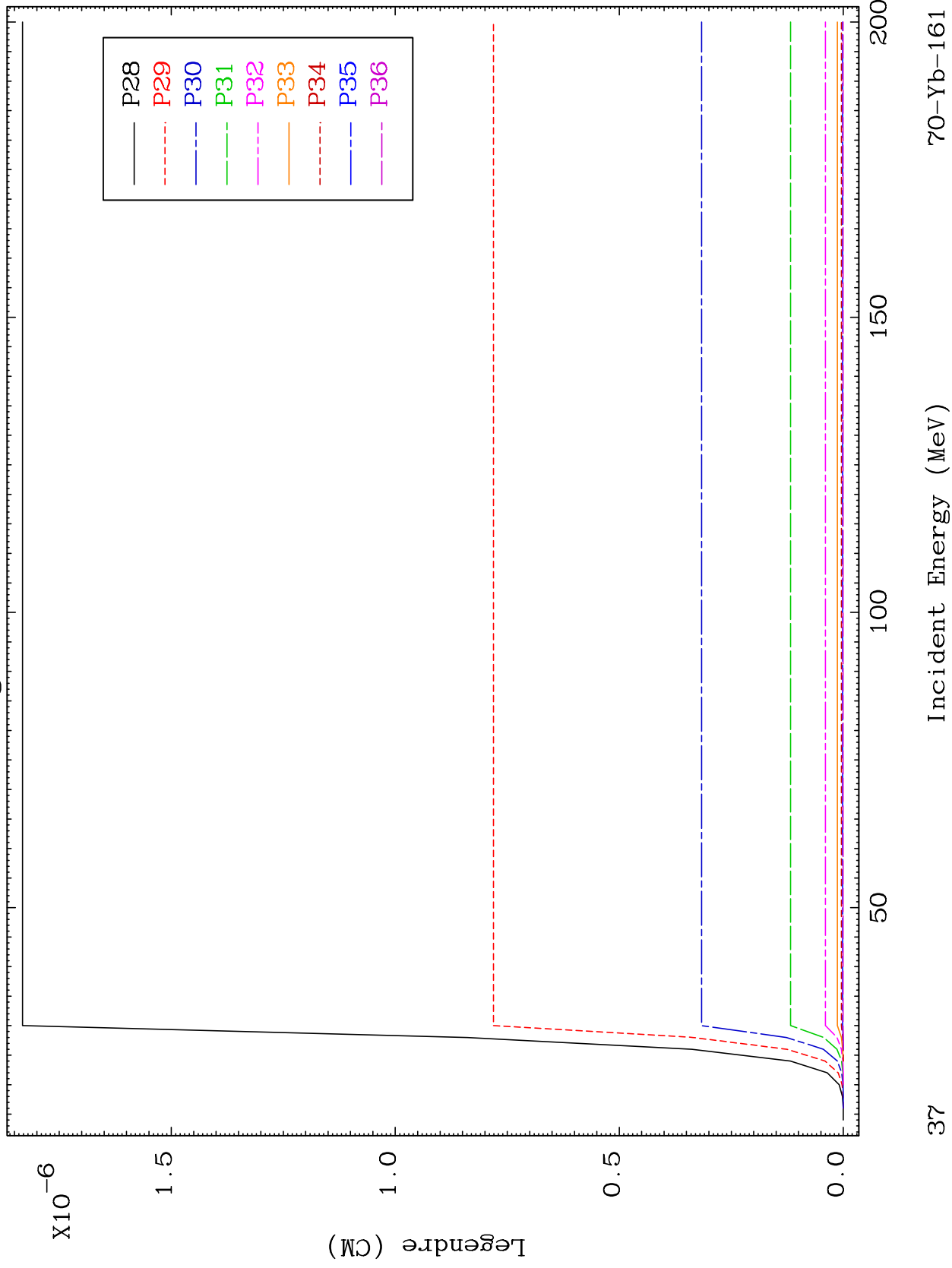
35

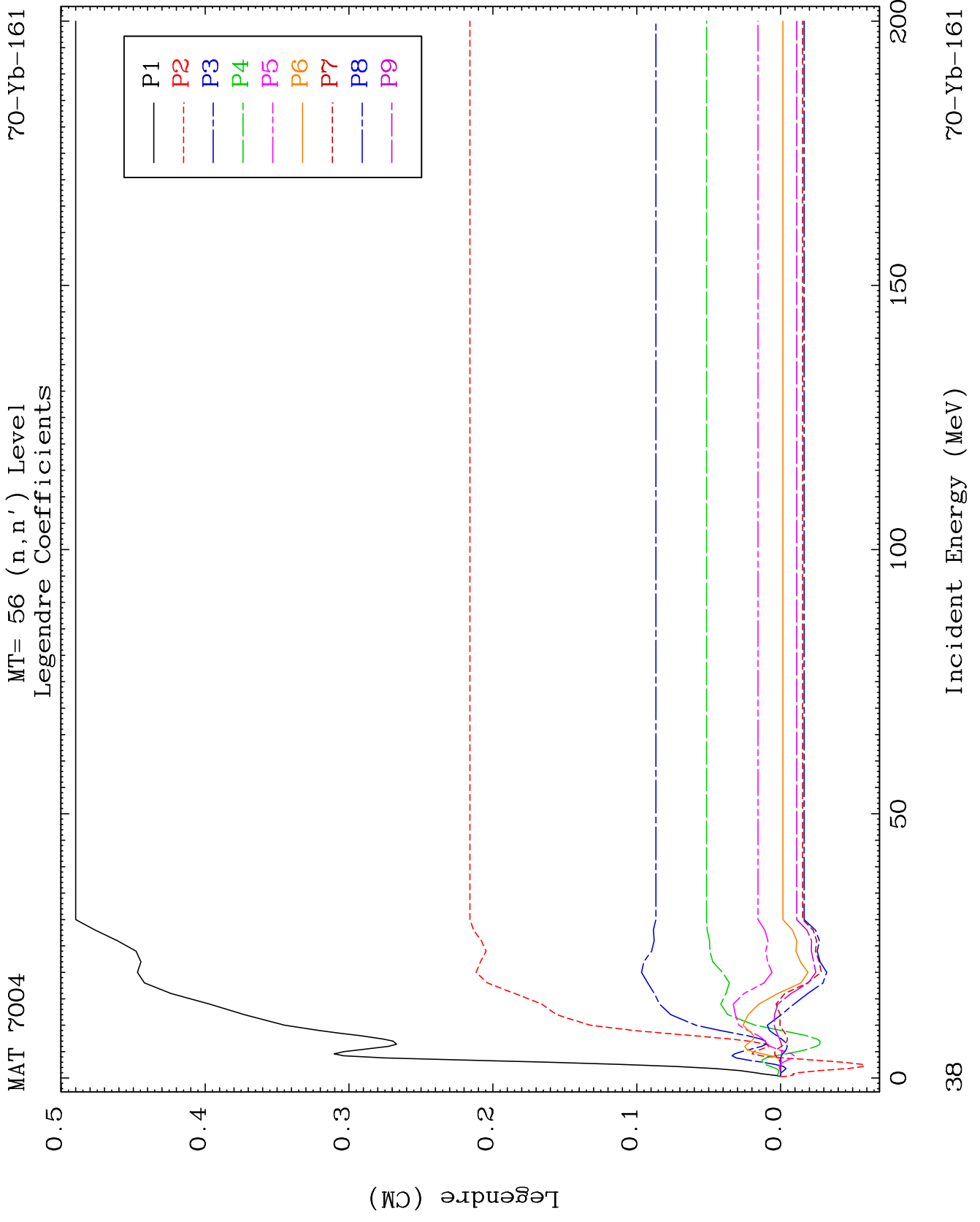


MAT 7004

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

70-Yb-161

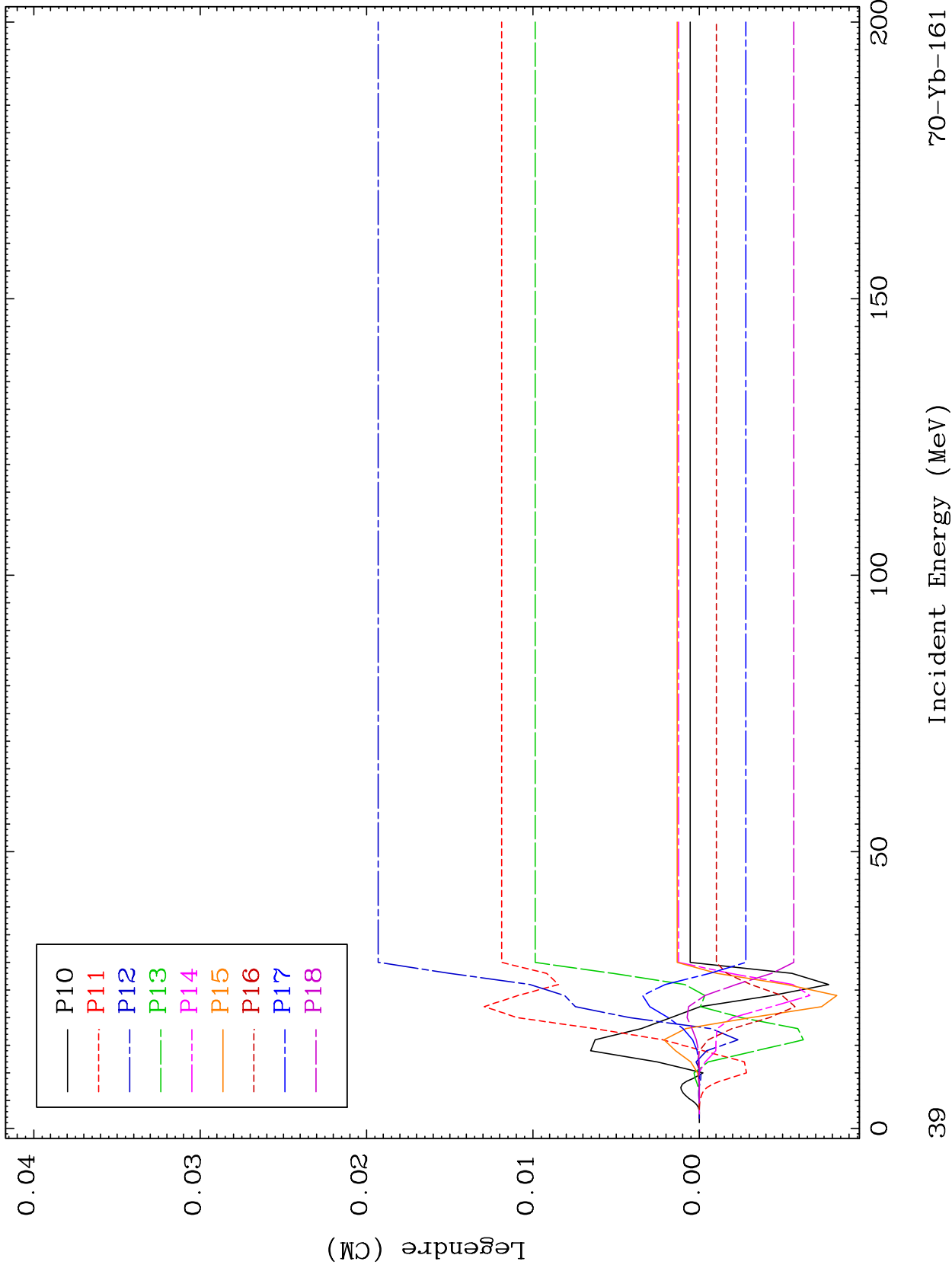




MAT 7004

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

70-Yb-161



39

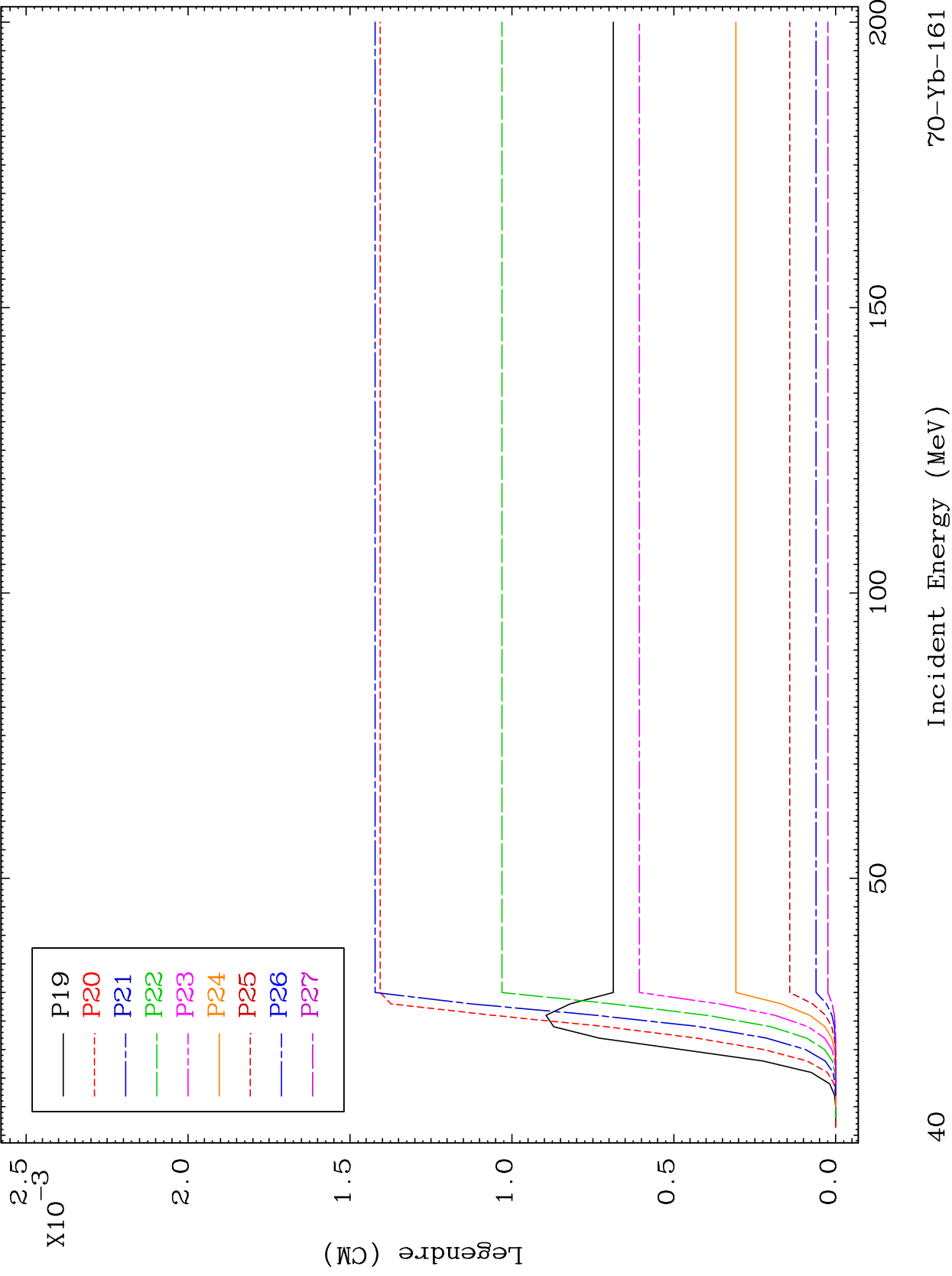
Incident Energy (MeV)

70-Yb-161

MAT 7004

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

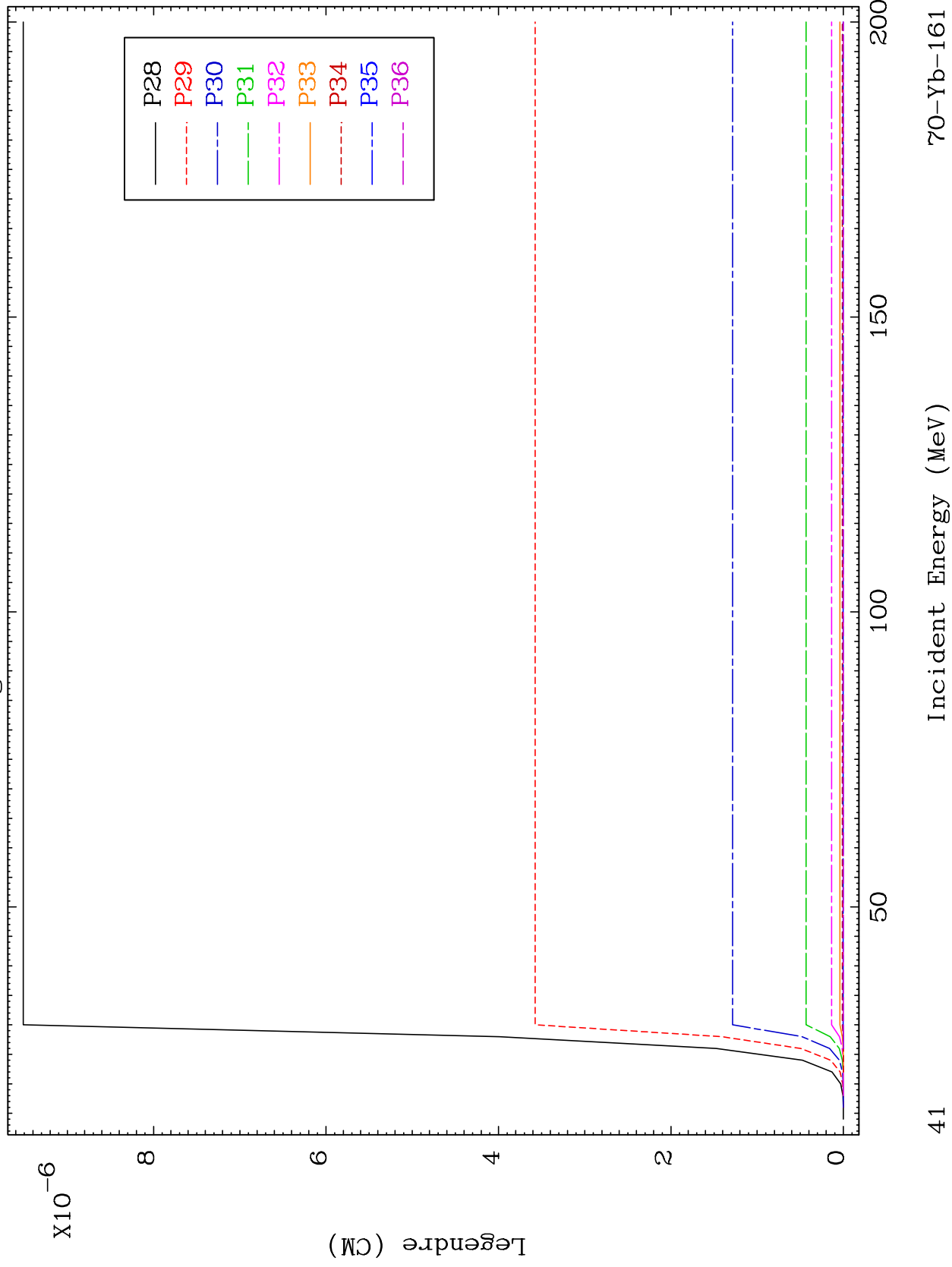
70-Yb-161



MAT 7004

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

70-Yb-161



41

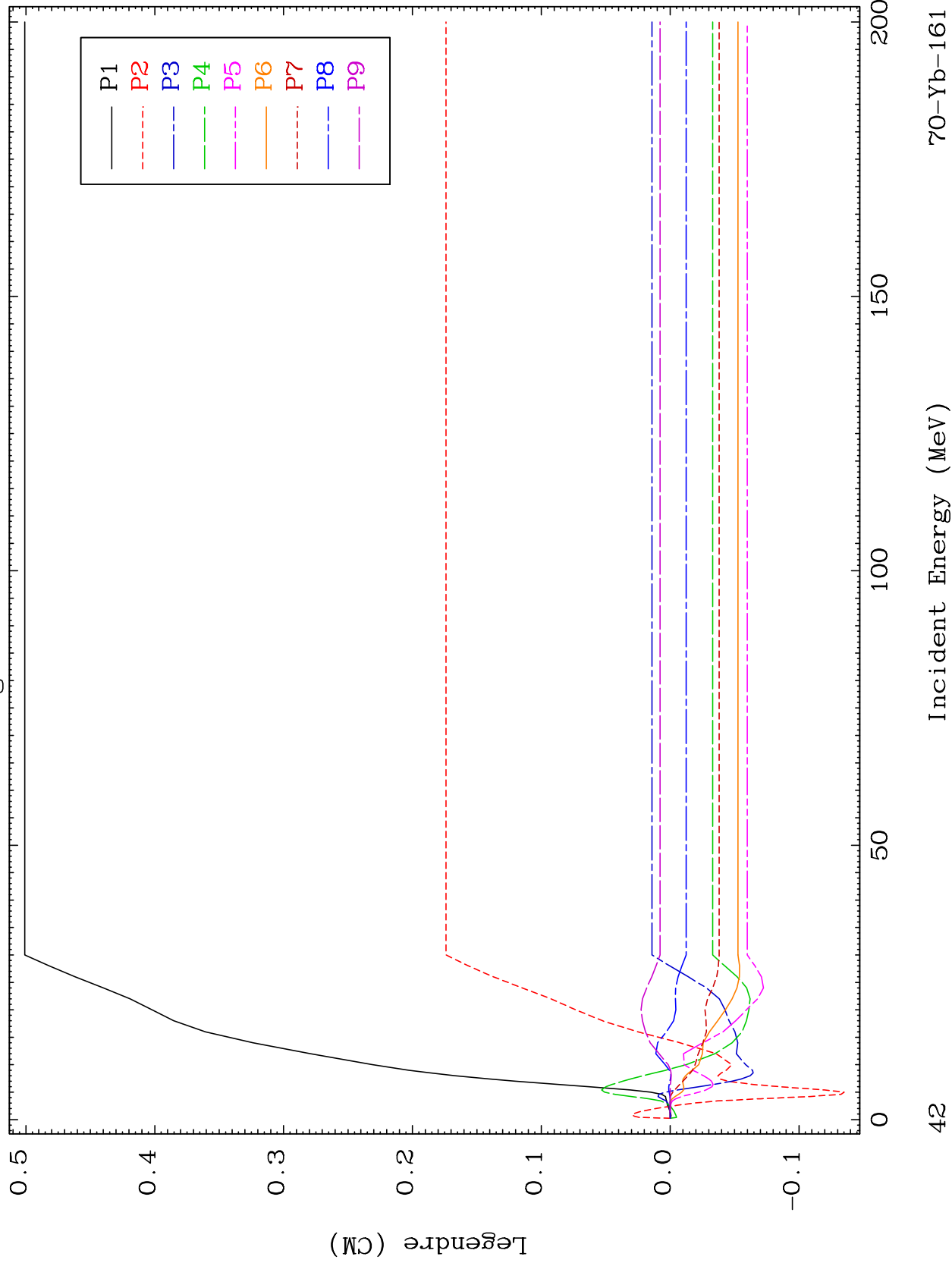
Incident Energy (MeV)

70-Yb-161

MAT 7004

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

70-Yb-161



70-Yb-161

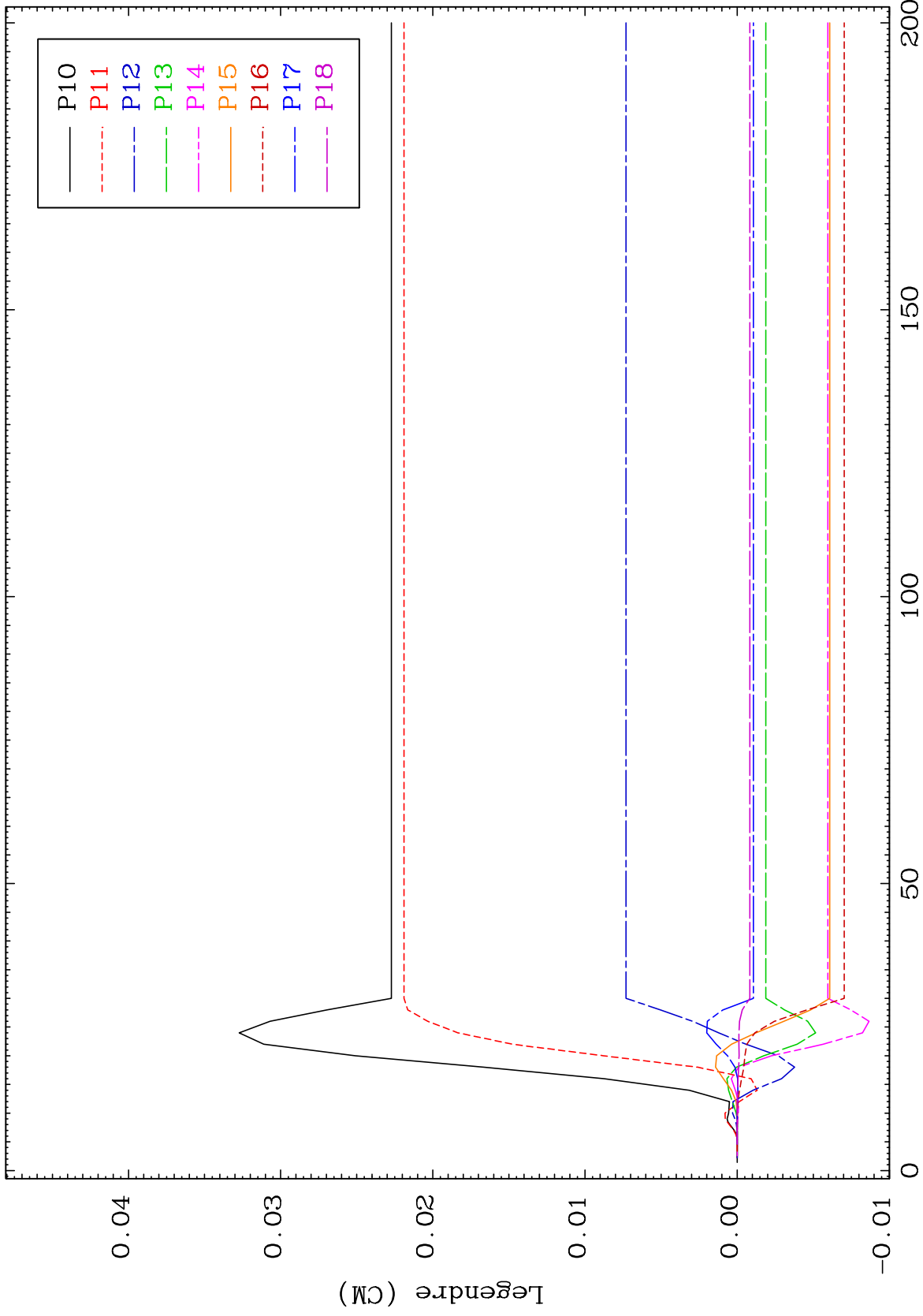
Incident Energy (MeV)

42

MAT 7004

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

70-Yb-161



43

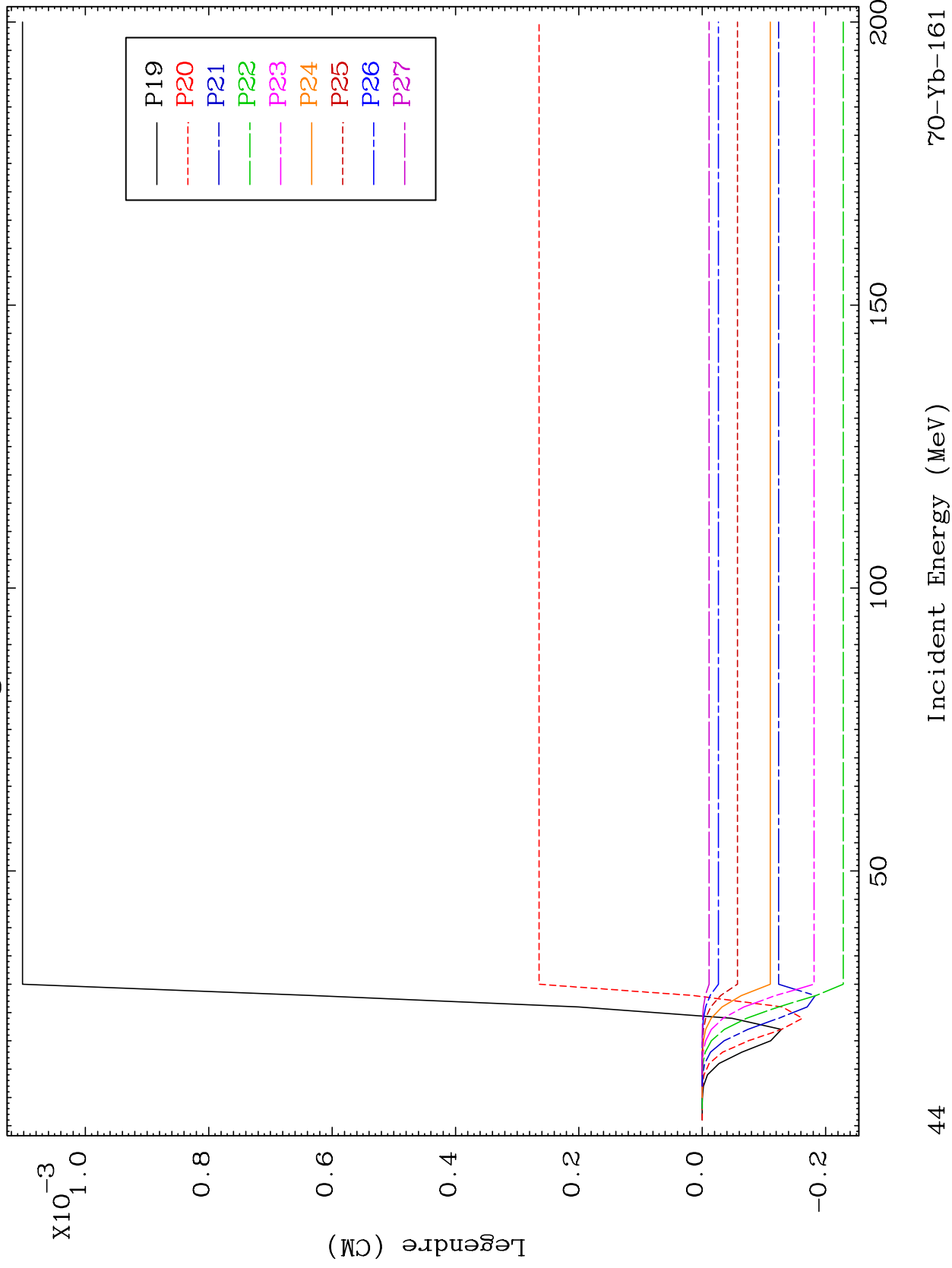
Incident Energy (MeV)

70-Yb-161

MAT 7004

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

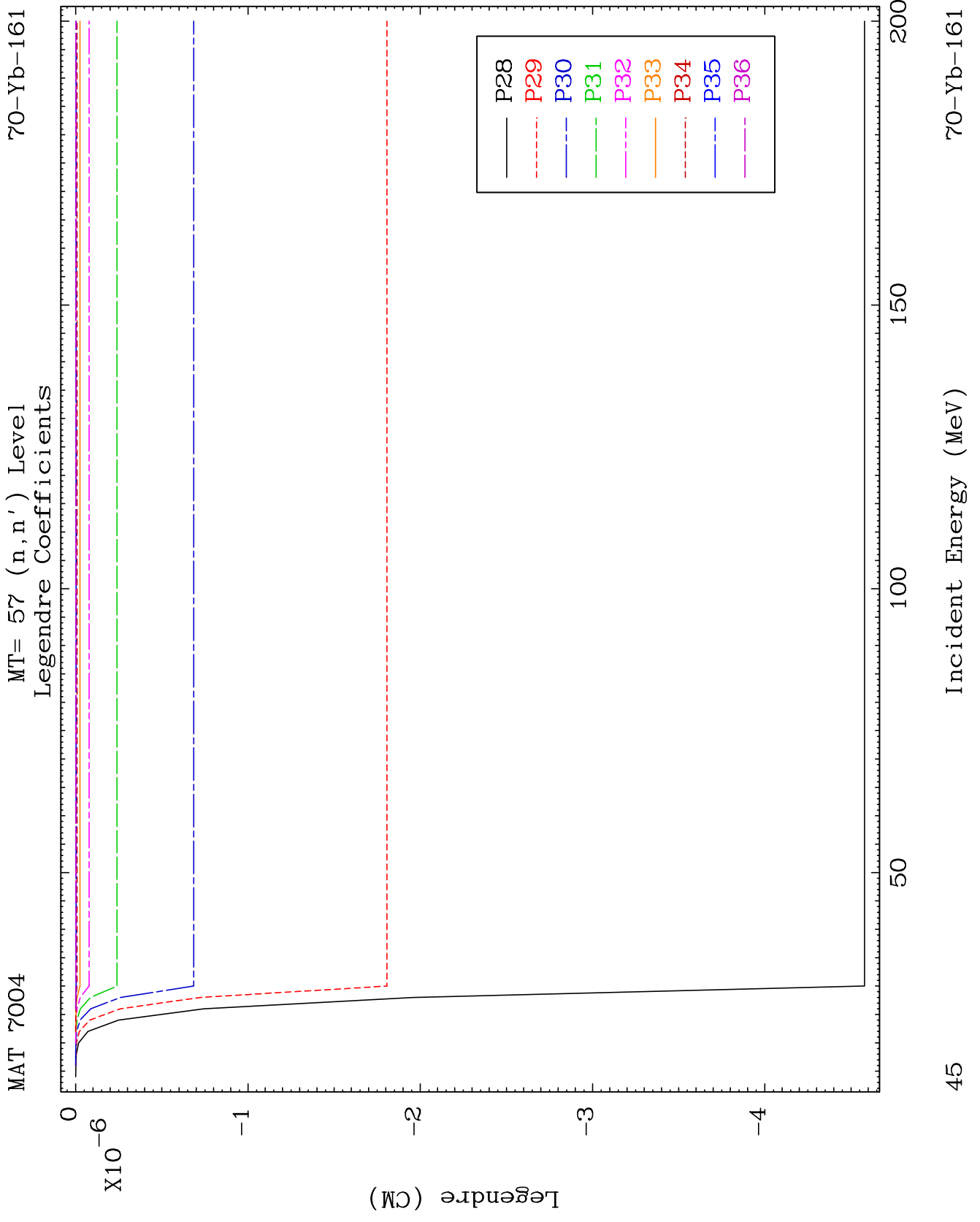
70-Yb-161

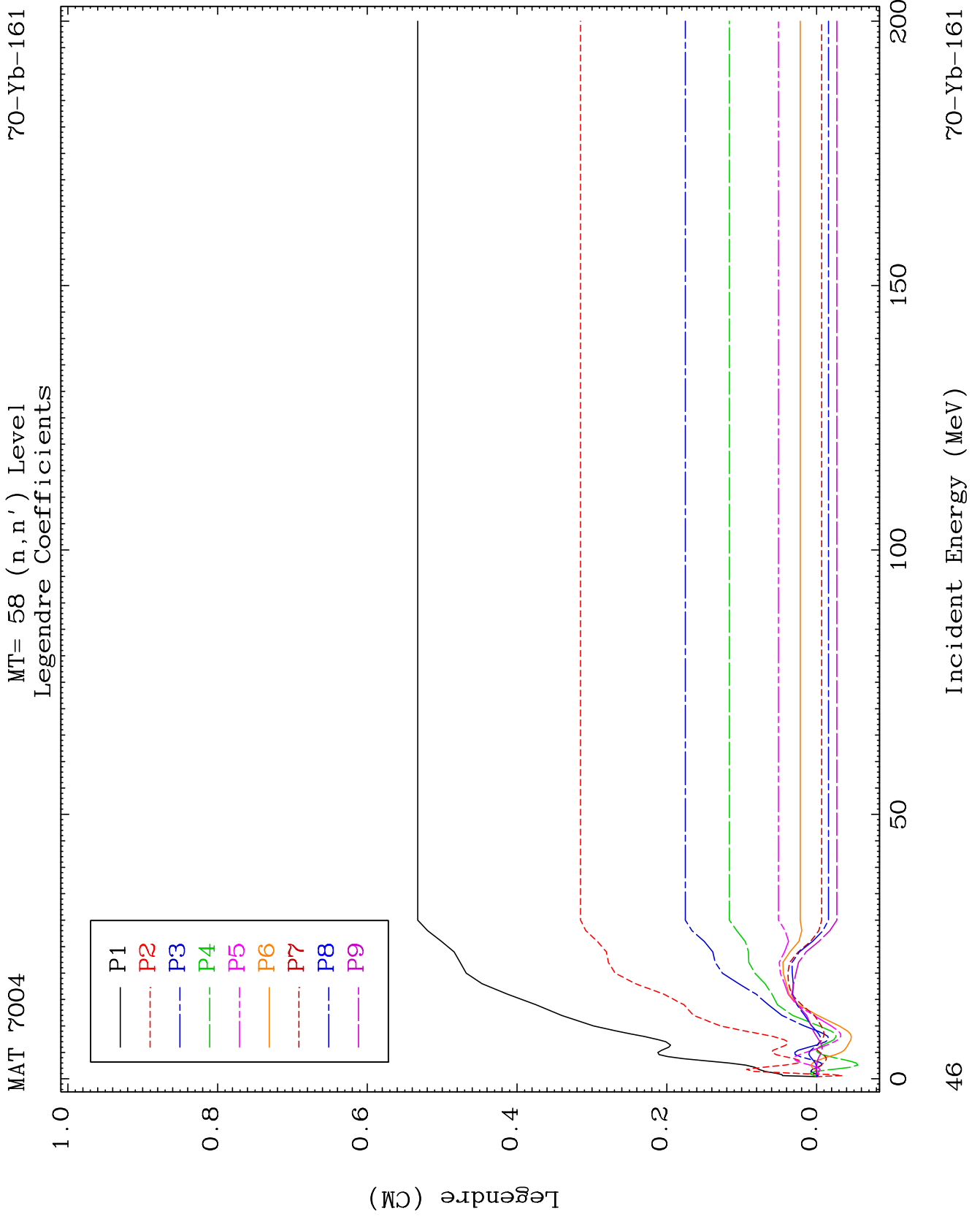


44

Incident Energy (MeV)

70-Yb-161

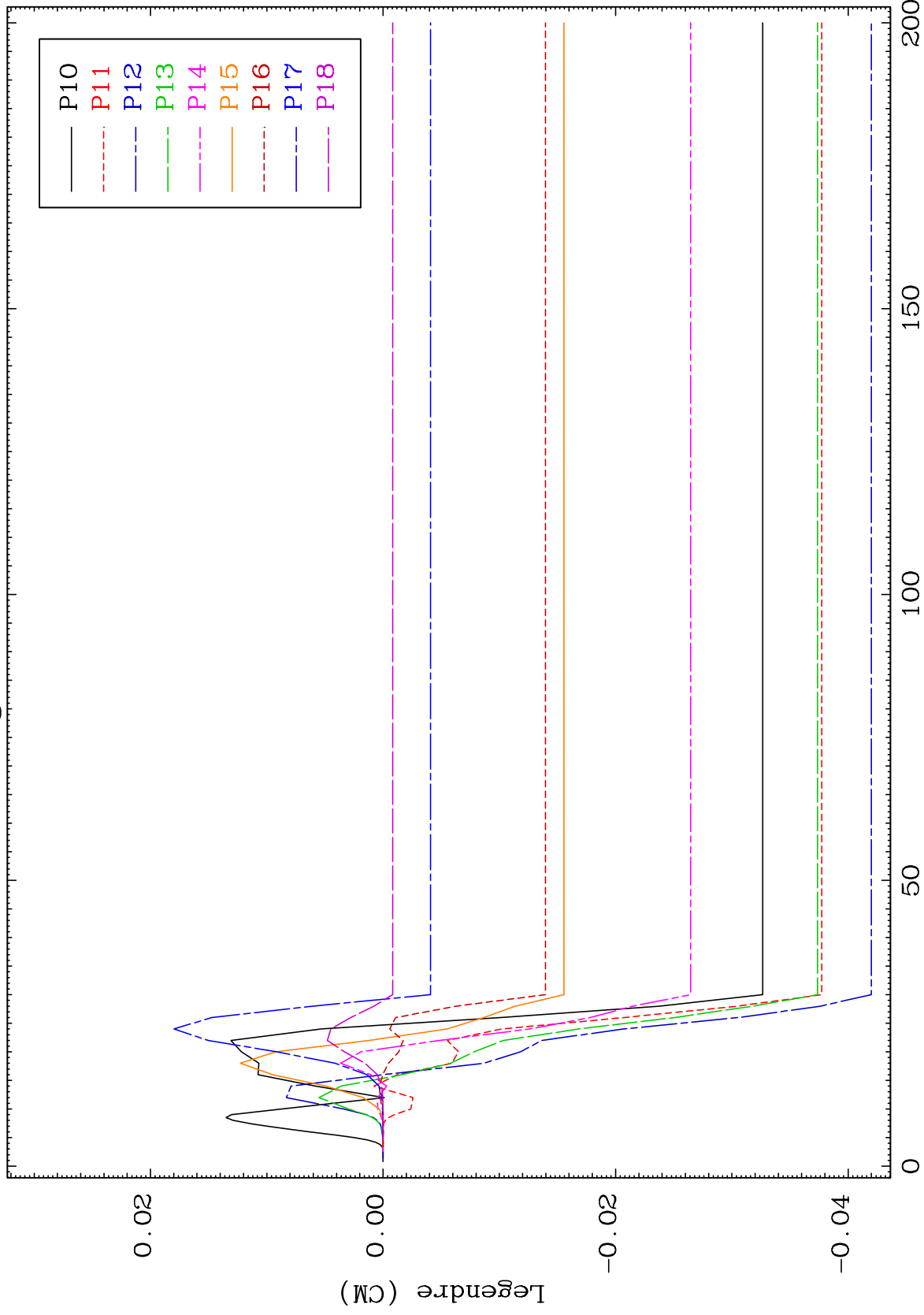




MAT 7004

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

70-Yb-161



47

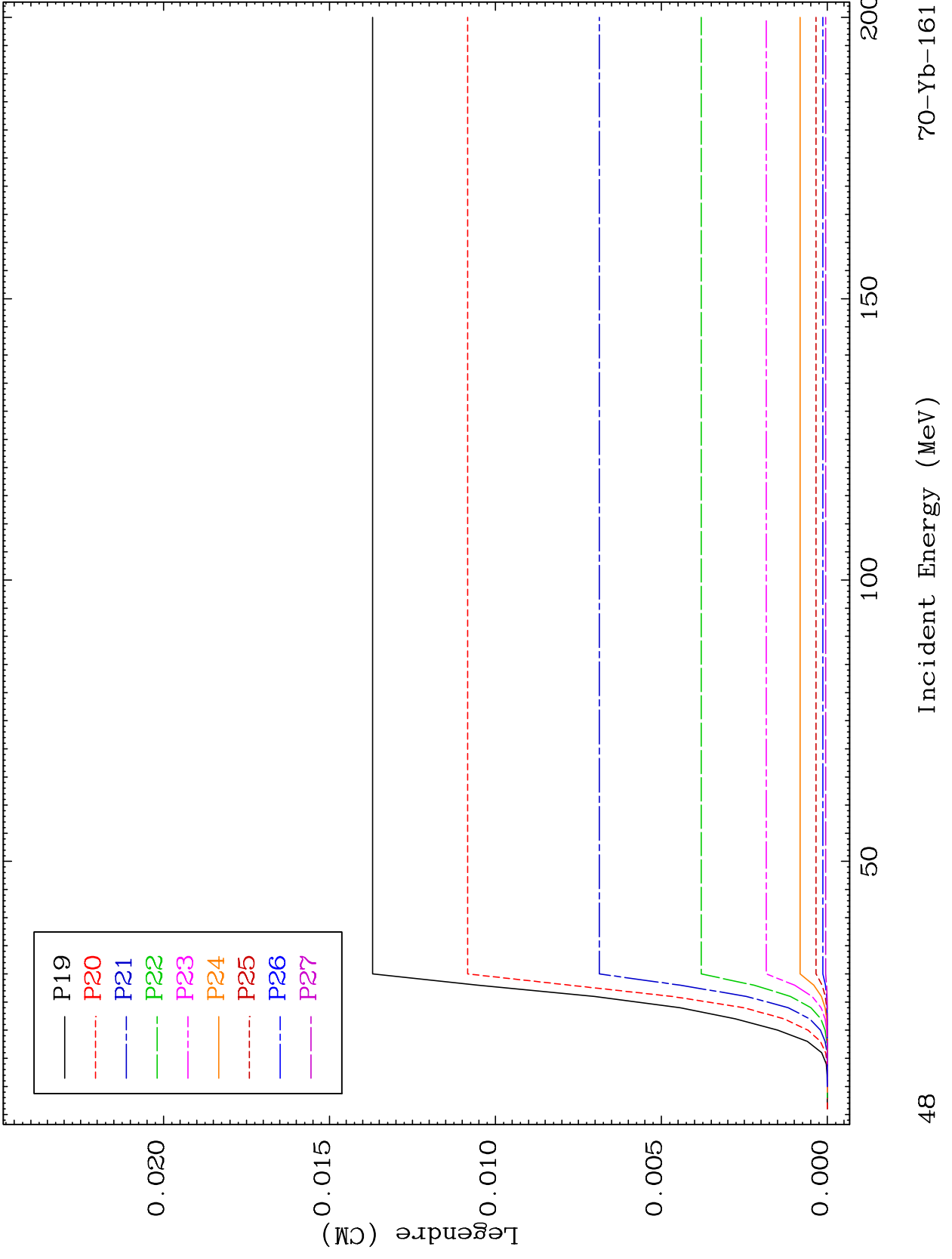
Incident Energy (MeV)

70-Yb-161

MAT 7004

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

70-Yb-161



48

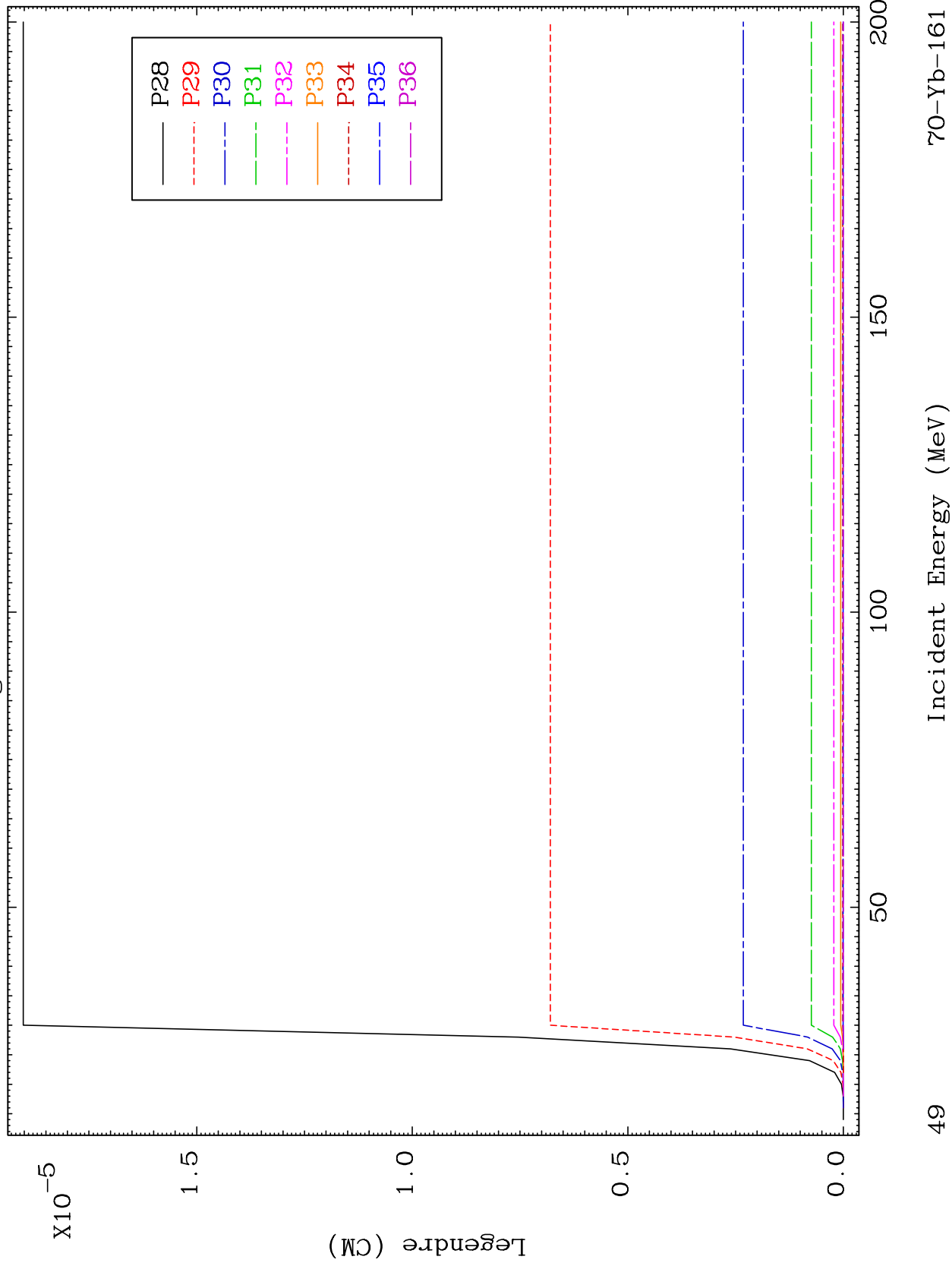
Incident Energy (MeV)

70-Yb-161

MAT 7004

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

70-Yb-161



49

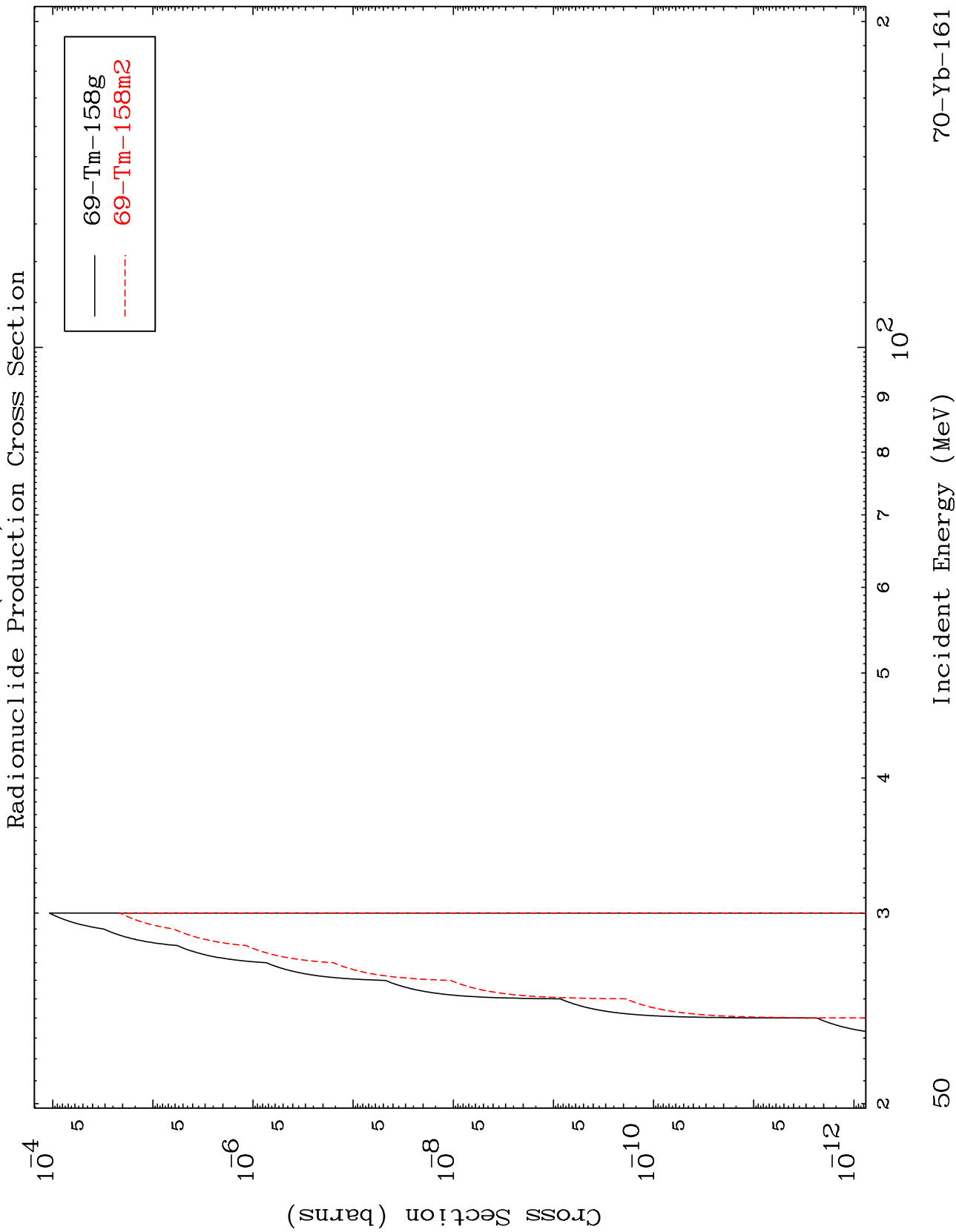
Incident Energy (MeV)

70-Yb-161

MAT 7004

(n,2n) d

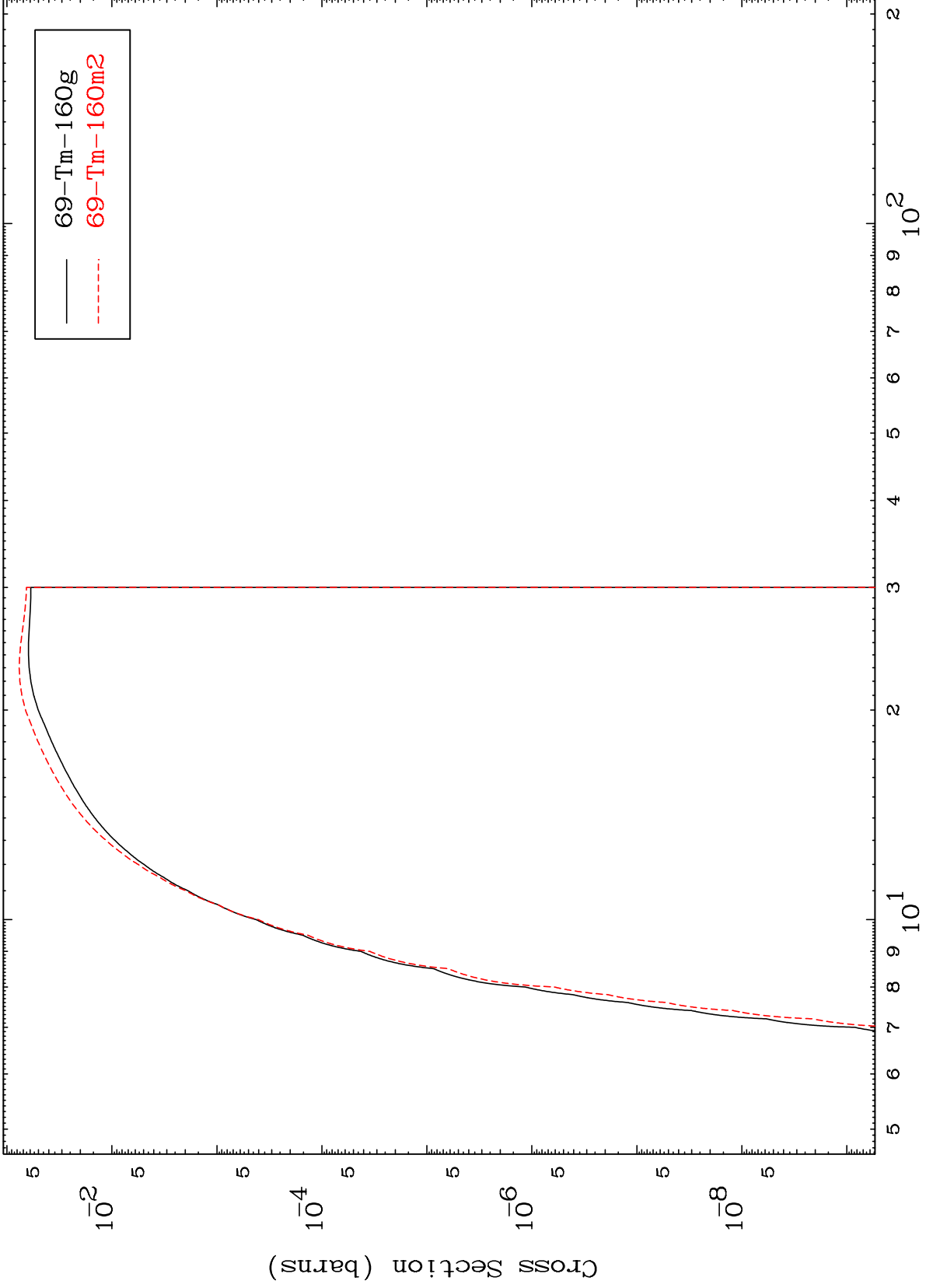
70-Yb-161

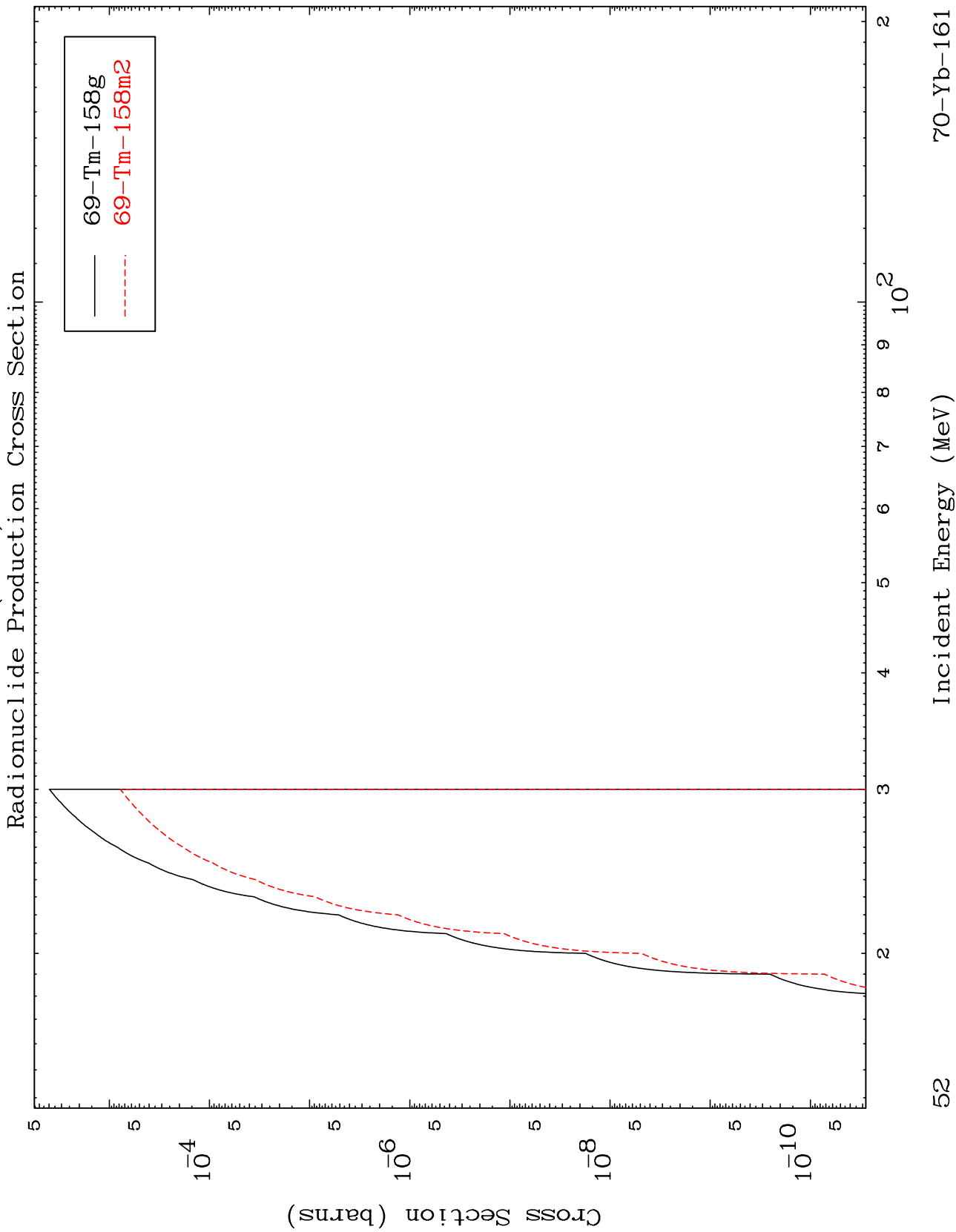


50

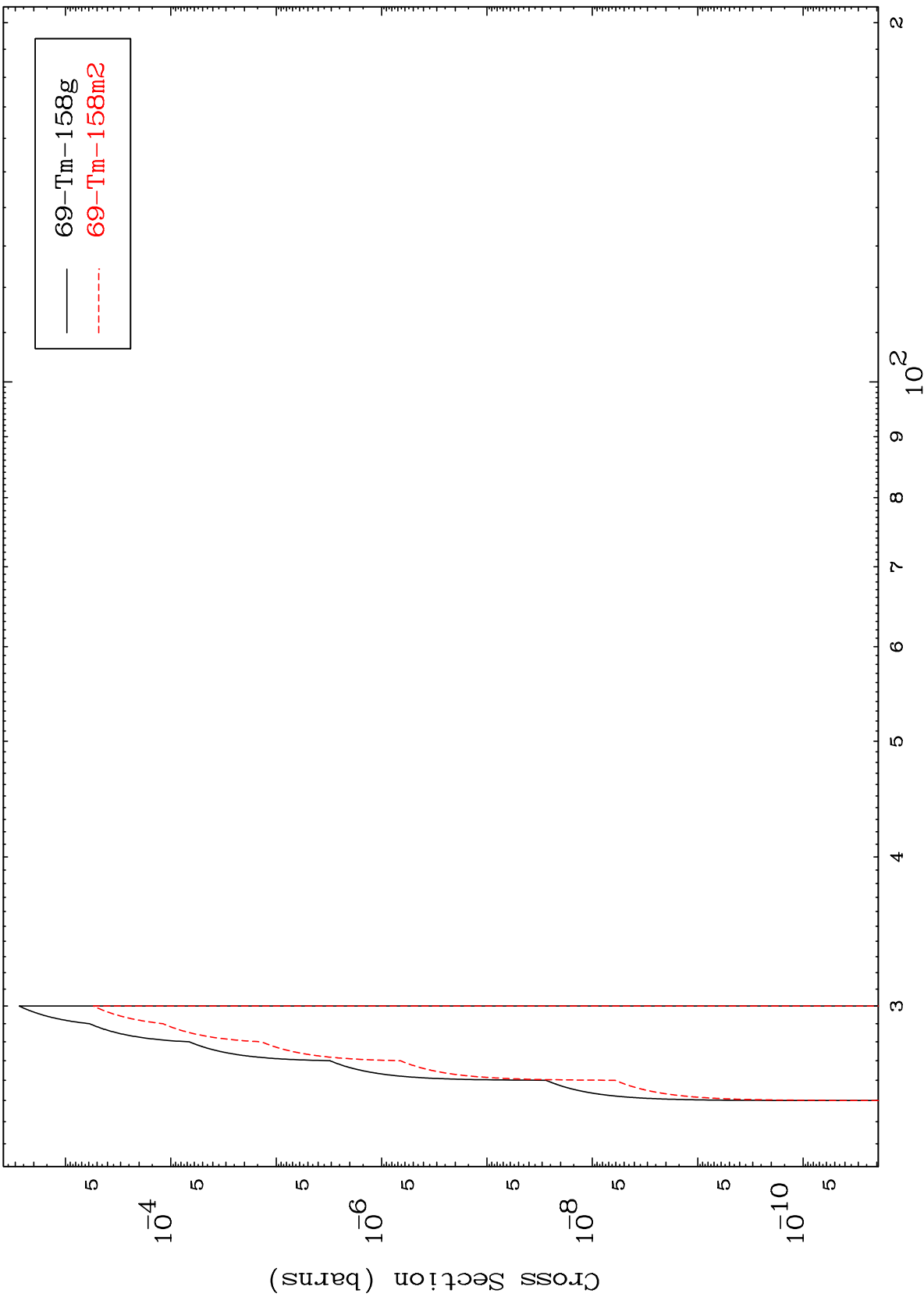
70-Yb-161

Radionuclide Production Cross Section

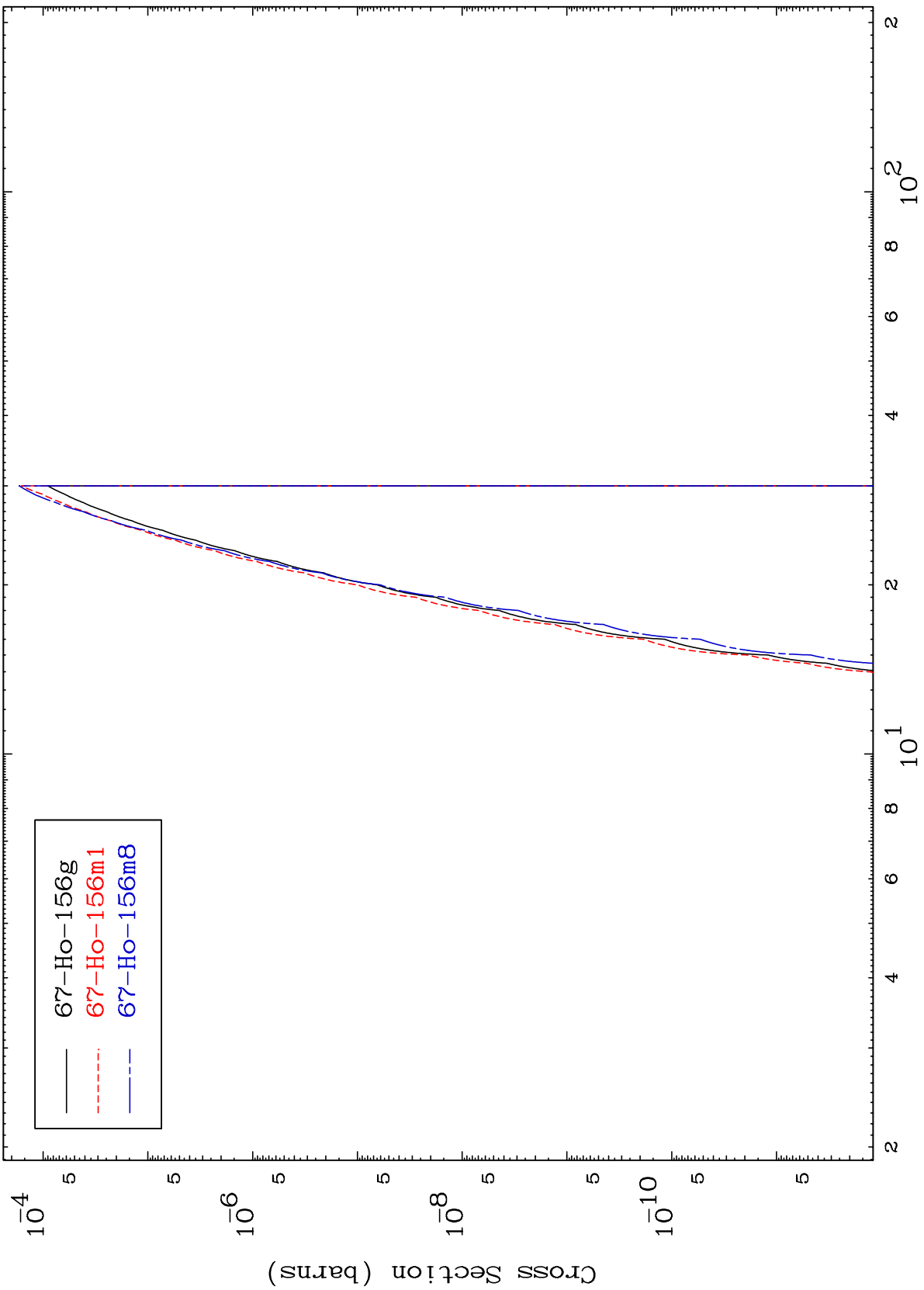




Radionuclide Production Cross Section



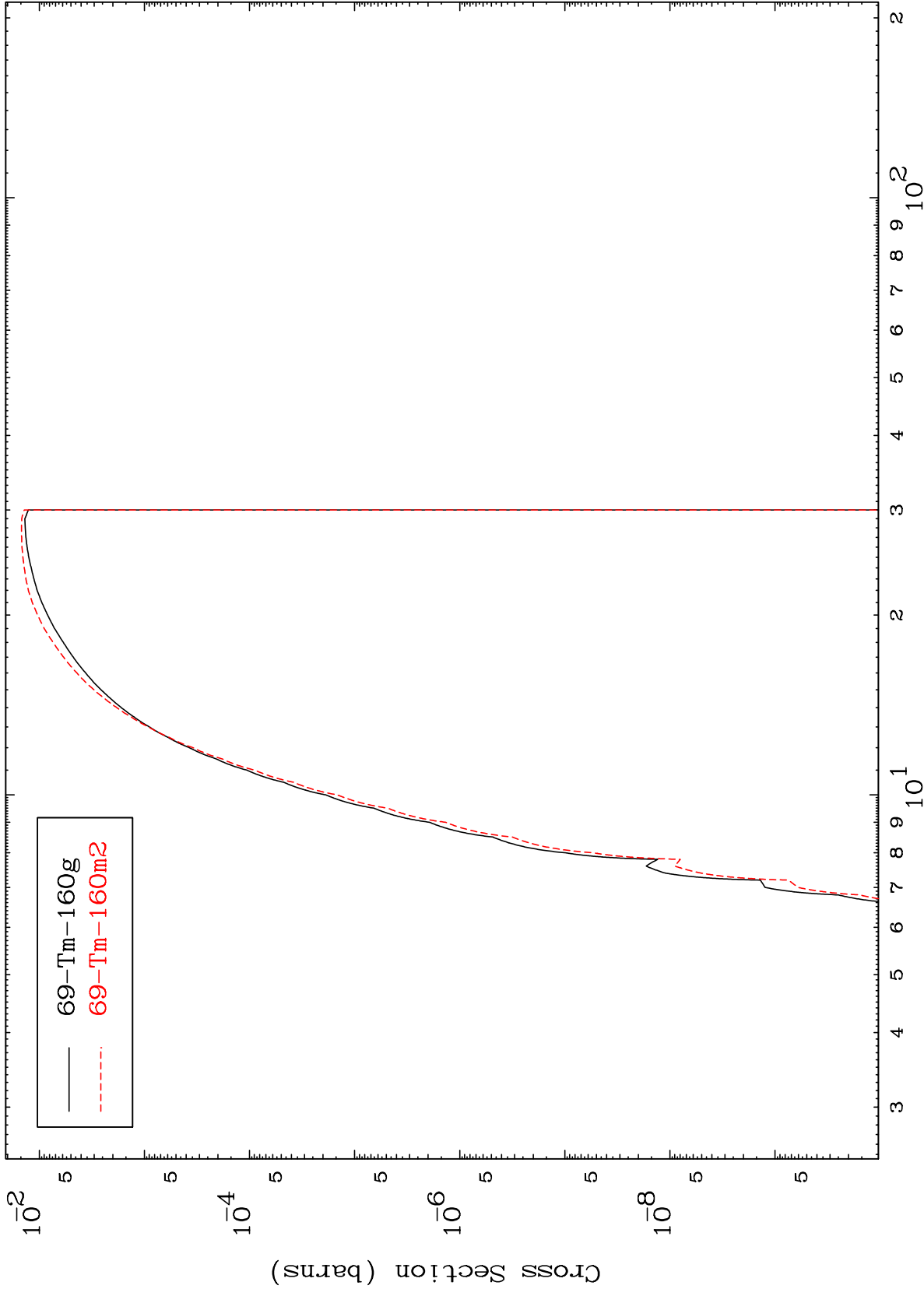
Radionuclide Production Cross Section



MAT 7004

70-Yb-161

(n,d)  
Radionuclide Production Cross Section



70-Yb-161

Incident Energy (MeV)

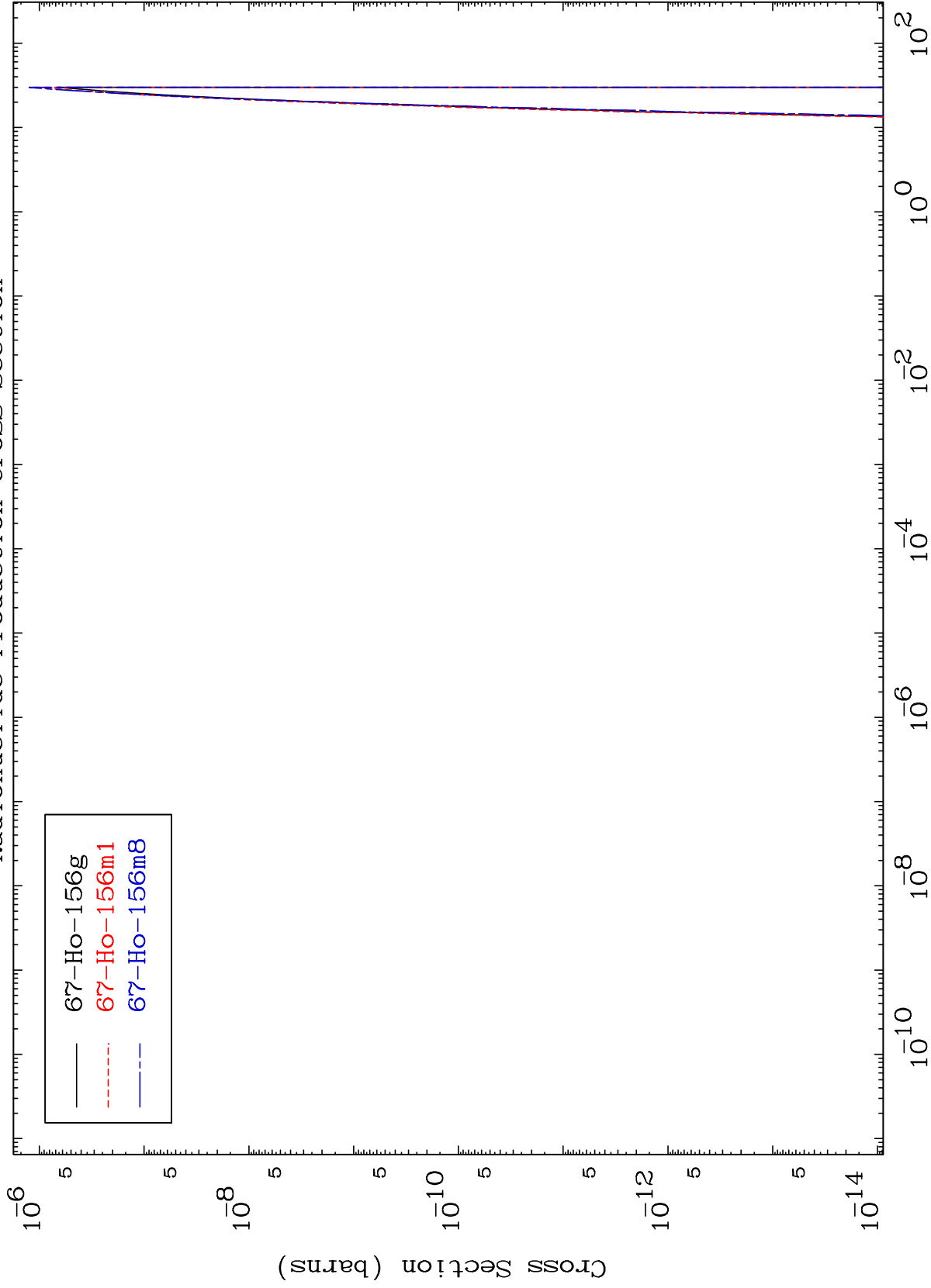
55

MAT 7004

(n,d)  $\alpha$

70-Yb-161

Radionuclide Production Cross Section



56

Incident Energy (MeV)

70-Yb-161