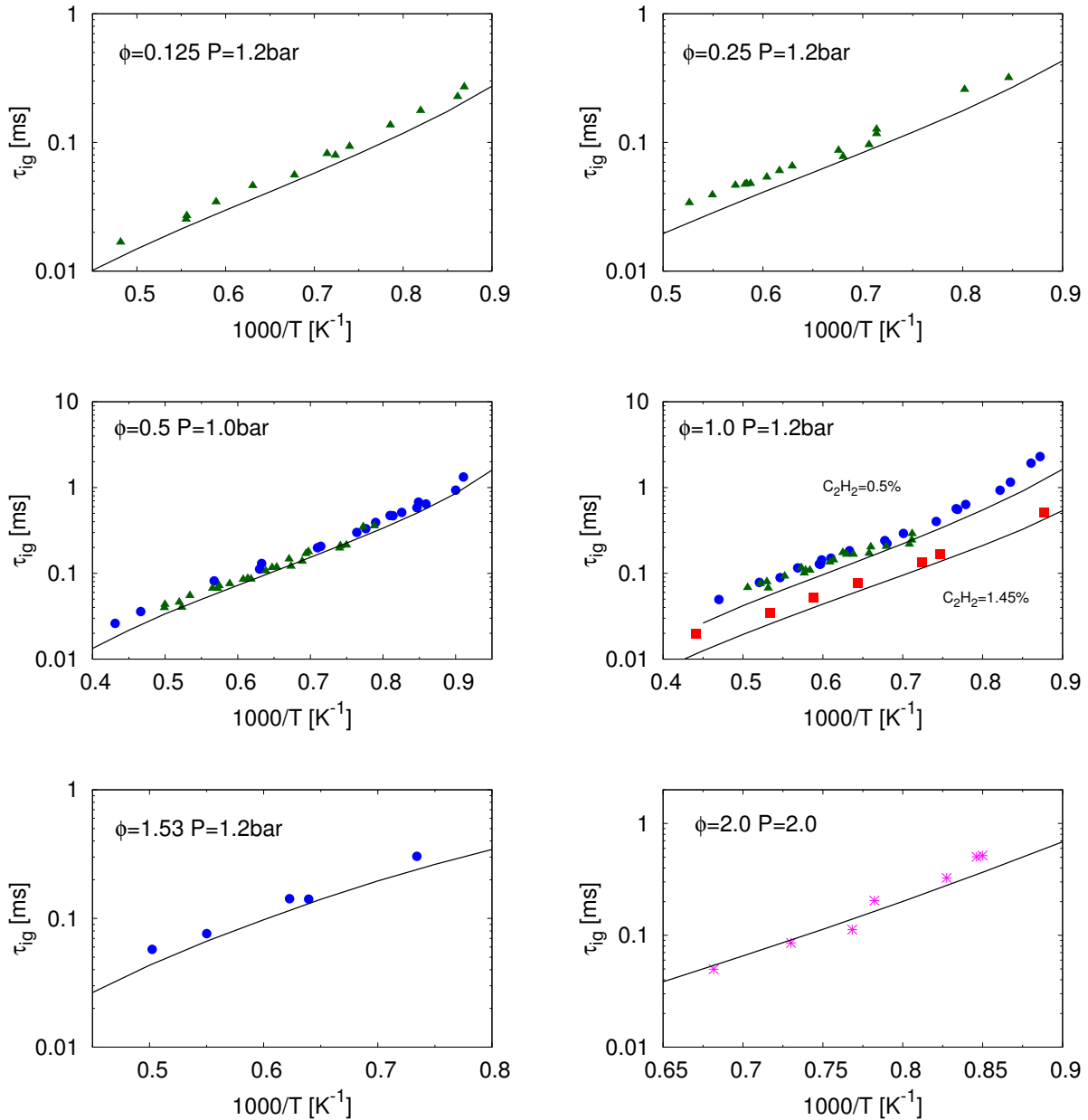


Ignition delay times



Experimental ignition delay times rescaled to indicated pressure using $\tau \sim P^{-1}$ as found in Rickard et al. Sidewall measurements preferred over endwall measurements (Petersen).

Experimental data from Eiteneer & Frenklach for $\phi = 0.48$ shown in figure with $\phi = 0.5$.

References

- [1] Y. Hidaka, K. Hattori, T. Okuno, K. Inami, T. Koike, Shock-tube and modeling study of acetylene pyrolysis and oxidation, Comb. Flame 107 (1996) 401–417.

-
- [2] B. Eiteneer, M. Frenklach, Experimental and modeling study of shock-tube oxidation of acetylene, *Int. J. Chem. Kinet.* 35 (2003) 391–414.
 - [3] M. J. A. Rickard, J. M. Hall, E. L. Petersen, Effect of silane addition on acetylene ignition behind reflected shock waves, *Proc. Comb. Inst.* 30 (2005) 1915–1923.
 - [4] E. L. Petersen, Interpreting endwall and sidewall measurements in shock-tube ignition studies, *Comb. Sci. Tech.* 181 (2009) 1123–1144.