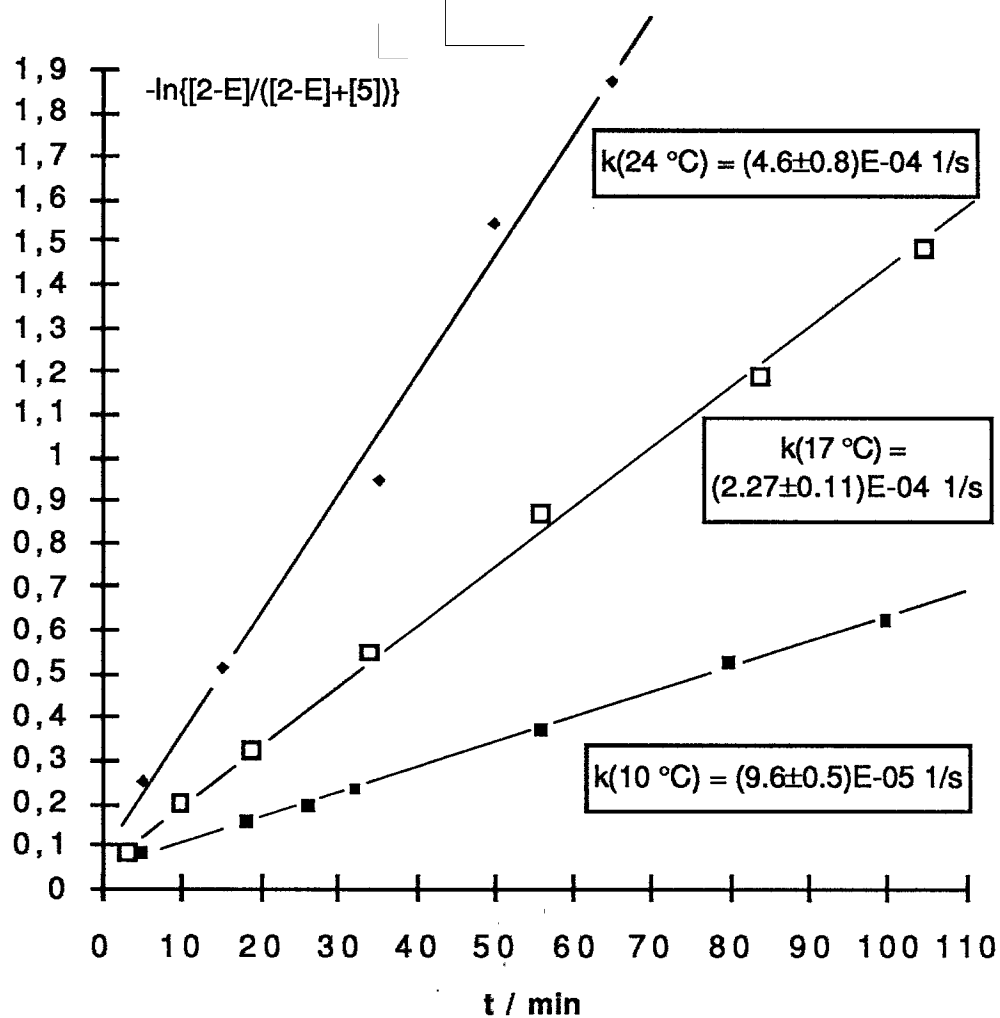


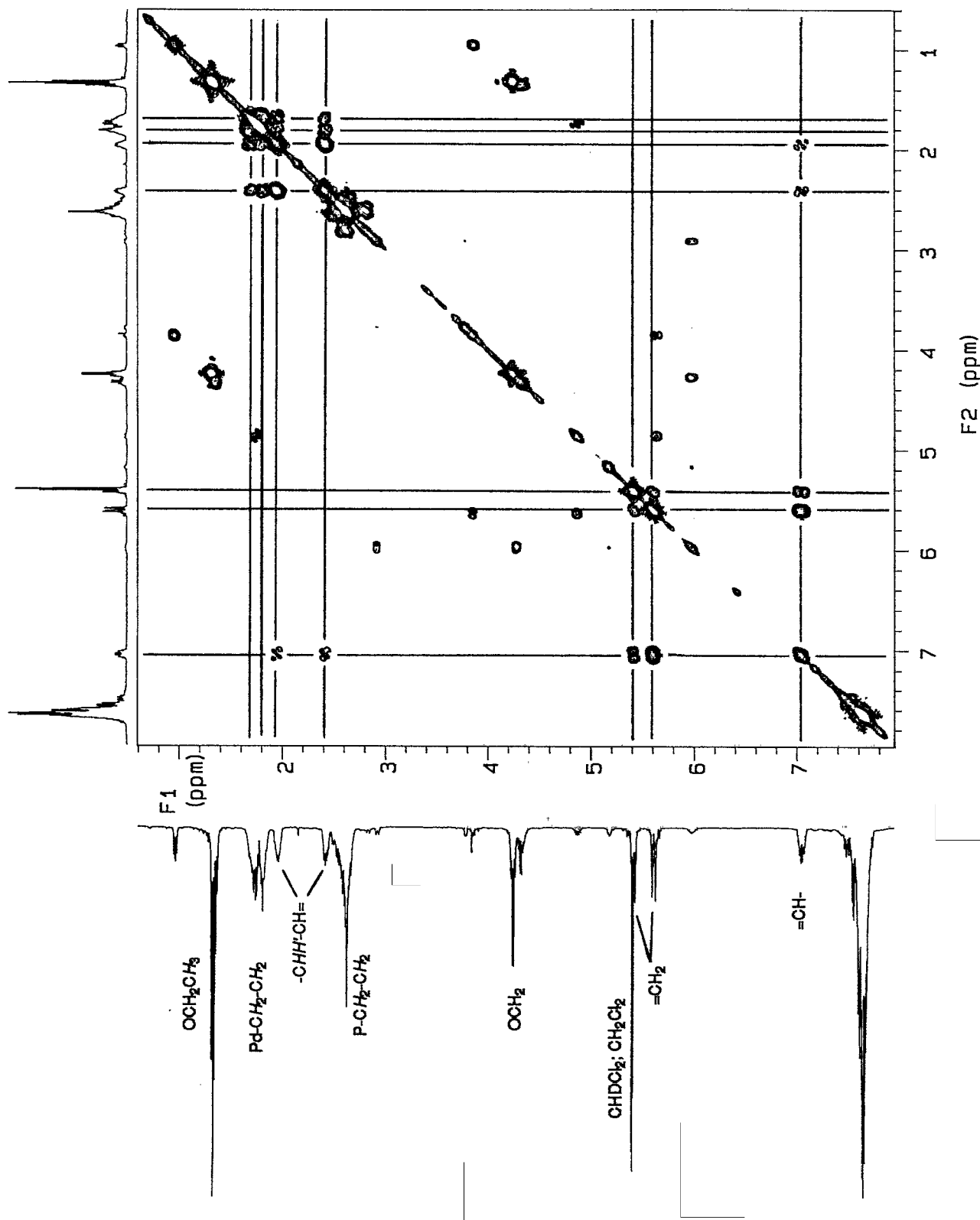
## Supporting Information

### Cationic Palladium $\eta^3$ -Allyl Complexes with Hemilabile P,O-Ligands: Synthesis and Reactivity. Insertion of Ethylene into the Pd-Allyl Function

Stefan Mecking and Wilhelm Keim



Kinetics of the reaction  $2-E \rightarrow 5$  (solvent:  $CD_2Cl_2$ ).



H,H-COSY of complex **5** (500 MHz,  $\text{CD}_2\text{Cl}_2$ ,  $-70^\circ\text{C}$ ). Impurities of **2** and the species with  $\delta(^{31}\text{P})$  21.0 (*cf.* text). Couplings of the pentenyl ligand are designated.