

Observation of Covalent and Electrostatic Bonds in Nitrogen-Containing Polycyclic Ions Formed by Gas Phase Reactions of the Benzene Radical Cation with Pyrimidine

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Supplementary Information

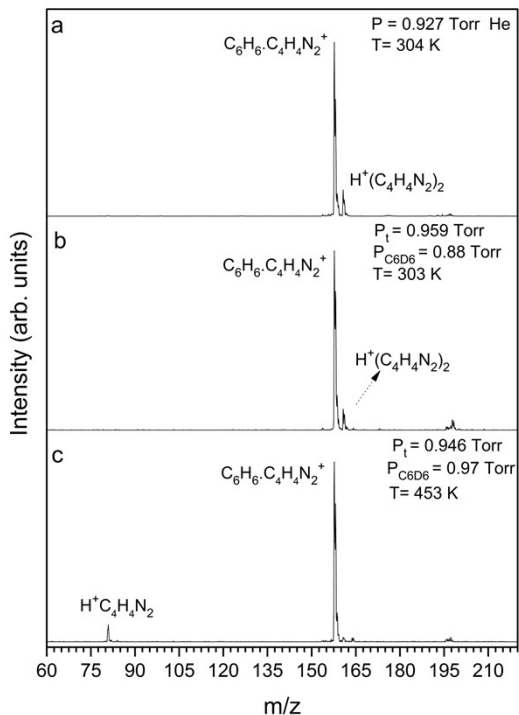


Figure S1. Lack of ligand exchange reactions of the $(C_6H_6.C_4H_4N_2)^{++}$ dimer injected into C_6D_6/He at the pressures and temperatures as indicated. Ligand exchange could yield $(C_6D_6.C_6H_6)^{++}$ (m/z 162) or $(C_4H_4N_2.C_6D_6)^{++}$ (m/z 164) which are not observed.

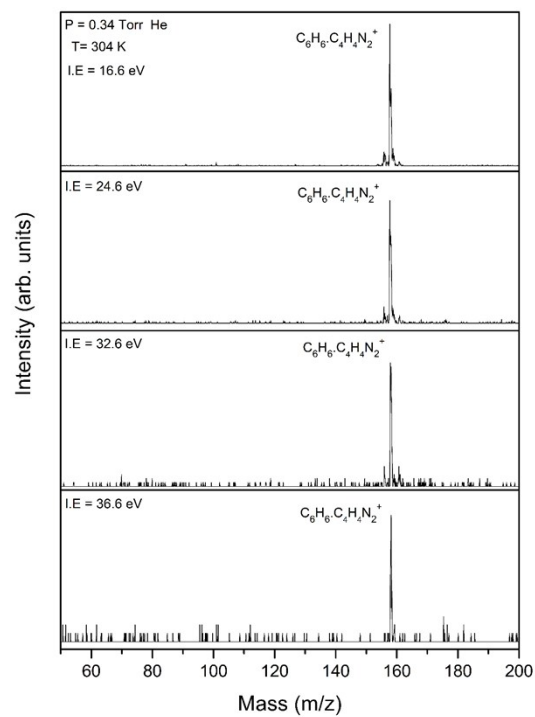


Figure S2: Stability of the $(C_6H_6.C_4H_4N_2)^+$ dimer against collisional dissociation upon injection into the mobility cell. Mass Spectra show no fragmentation at the injection energies (I.E) indicated (lab frame).