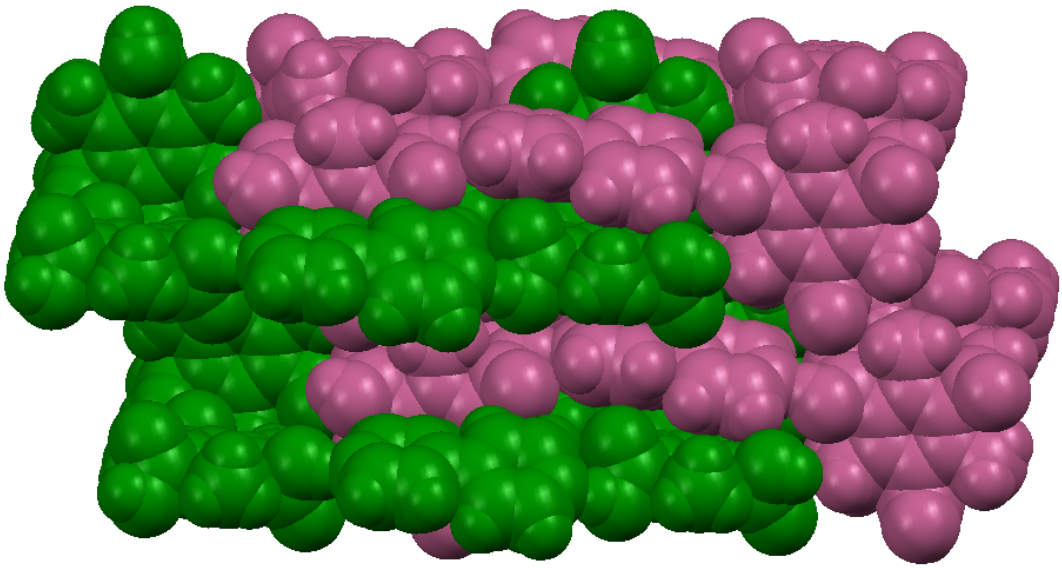
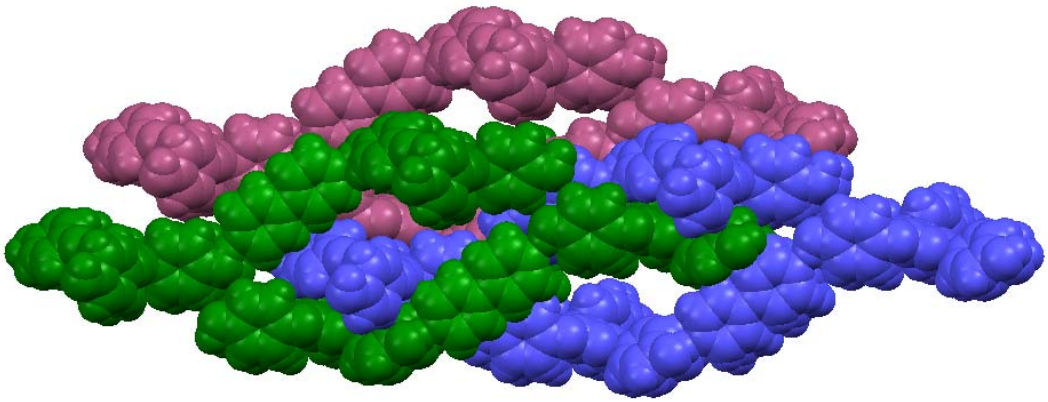
Hydrogen-bond networks in the binary complexes of trigonal molecules with 4,4'-bipyridine

Binoy K Saha* and Suman Bhattacharya

Supplementary Information



(a)



(b)

Figure S1 Space fill models of the interpenetrated networks in the crystal structures of (a) **$MTAH_3$•bipy** and (b) **HPT•bipy**.

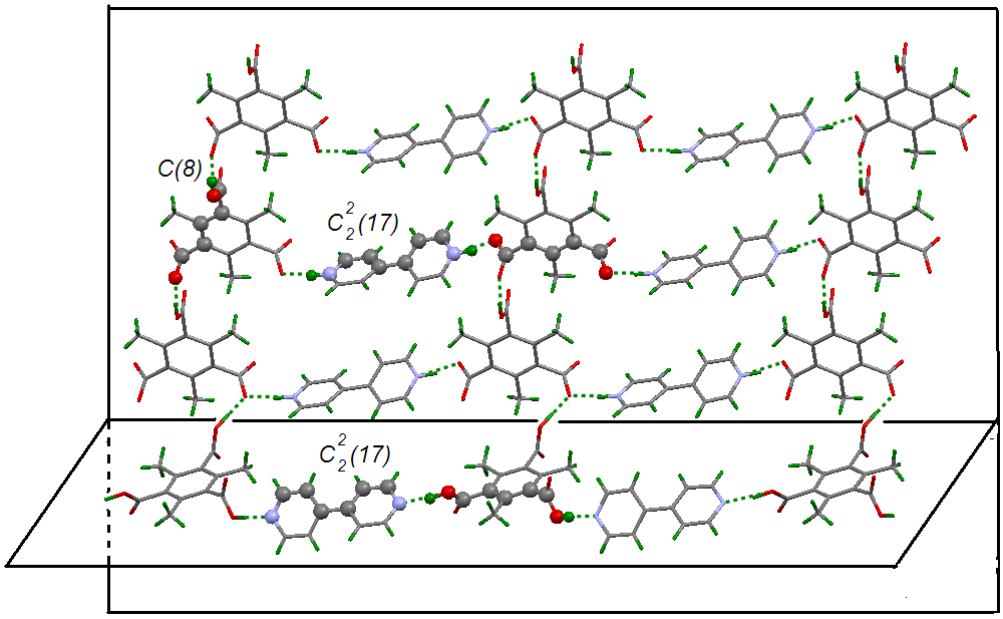
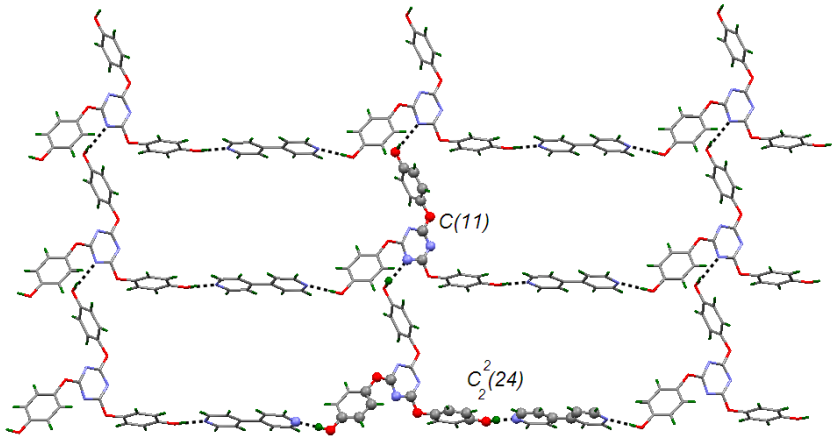
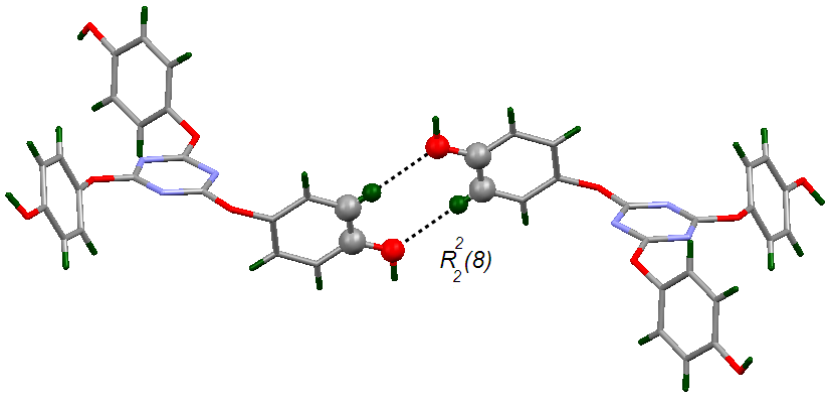


Figure S2 Graphset analysis of the hydrogen bond networks in the crystal structures of **$MTAH_3$•bipy**. The $C(8)$ chains of $MTAH^{2-}$ anions formed through O–H···O^- interactions, $C_2^2(17)$ chain consisting of alternate $bipyH_2^{2+}$ cations and $MTAH^{2-}$ anions and $C_2^2(17)$ chain of neutral $MTAH_3$ and bipy molecules



(a)



(b)

Figure S3 Graphset analysis of the hydrogen bond networks in the crystal structures of **HPT•bipy**.**(a)** Parallel chains of triazine molecules, through O–H···N interactions forming the *C*(11) chain and the adjacent triazine moieties of the *C*(11) chains interconnected by bipy linkers through O–H···N interactions forming the $C_2^2(24)$ chain. **(b)** The $R_2^2(8)$ centrosymmetric dimer like linkage through C–H···O interactions leading to the **pcu** net.

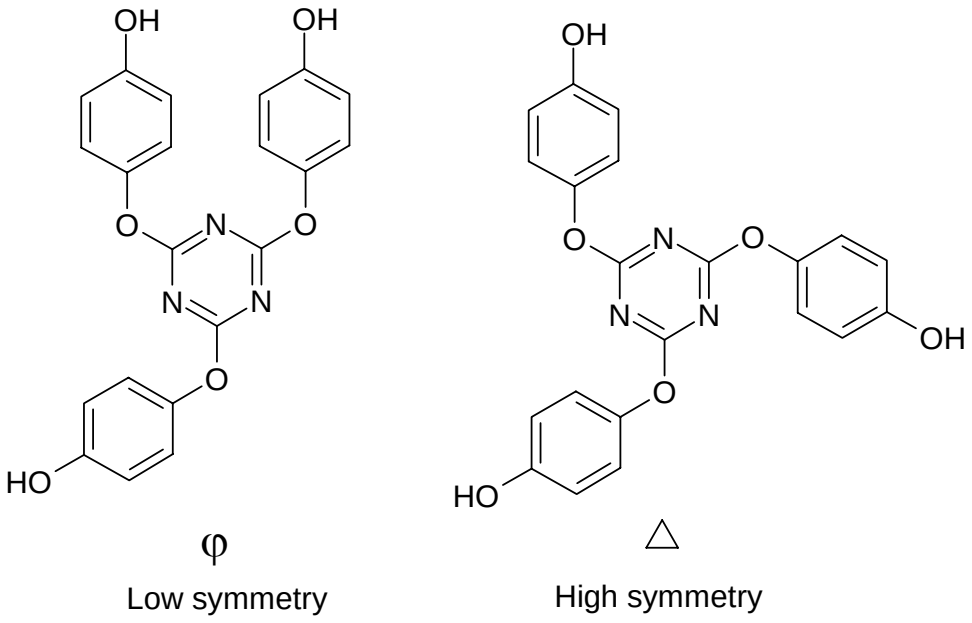


Figure S4 Two possible conformations of HPT – low symmetry (φ) and high symmetry (Δ).