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**Jean-Christophe Novelli\***, Batiment Copernic, IGM – Universite de Marne-La-Vallee, 77454  
Marne La Vallee, France. *Realizations of combinatorial Hopf algebras.*

We illustrate in this talk the usefulness of the concept of alphabet realization and specialisation on Hopf algebras by a large set of examples. Commutative or on-commutative alphabets, simply or doubly-indexed will be considered. We shall begin with examples on compositions, binary trees, permutations and end with the most recent example, the realization of the Connes-Kreimer Hopf algebra. (Received July 28, 2011)