1039-05-155   **Jean-Christophe Novelli*** (`novelli@univ-mlv.fr`), IGM – Batiment Copernic, 77454 Marne-la-Vallee, France. *New applications of combinatorial Hopf algebras.*

We will discuss recent applications of classical combinatorial Hopf algebras (noncommutative symmetric functions, quasi-symmetric functions, free quasi-symmetric functions, word quasi-symmetric functions, ...) to various problems in combinatorics. (Received March 11, 2008)