

Workshop on Combinatorial Hopf Algebras  
and Macdonald Polynomials

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## Colored combinatorial Hopf algebras

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### Abstract

I will survey the category of  $m$ -colored combinatorial Hopf algebras, first suggested by Bergeron and Hohlweg. This category is analogous to Aguiar, Bergeron, and Sottile's category of (1-colored) combinatorial Hopf algebras, with Poirier's  $m$ -colored quasisymmetric functions as the terminal object.

*This talk is based on a joint work with Sam Hsiao:*  
<http://arxiv.org/abs/math/0610984>.