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: