

The George Washington University Combinatorics Seminar

Friday, April 11, 2:30 - 3:30 p.m.

Monroe Hall, Room 267
2115 G Street, N.W., Washington, D.C.

Monoidal categories, Joyal's species, and combinatorial Hopf algebras

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After the development of quantum groups in the 80's and 90's, recent years have seen the emergence of a large class of Hopf algebras of a different nature, loosely grouped under the term "combinatorial Hopf algebras". These objects have grown in profusion in a rather unstructured manner, and the subject is in need of some conceptual organization. In a long research monograph in preparation with my coauthor Swapneel Mahajan, we have been pursuing this goal. In this talk, I will explain some of the main ideas and constructions in our work.