

Atlantic Association for Research in Mathematical Sciences
Memorial University of Newfoundland
ATLANTIC ALGEBRA CENTRE

AAC Colloquium

Hopf algebras in combinatorics

will be delivered by



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Saint Mary's University, Halifax

Friday, March 26, 2010

SN-2105, 4:00 p.m.

Abstract

Hopf algebras are ubiquitous algebraic structures arising in many places in mathematics as well as in physics. In combinatorics they are often used to encode assembly and disassembly of discrete structures. I will outline the general theory of combinatorial Hopf algebras and illustrate it on several examples arising from various branches of mathematics, such as graph theory, representation theory, and free probability.