Hopf Algebra Duality in Relation with Graded Graph Duality





- dual graded graphs.







Computations are done with: MuPAD-Combinat, *http://mupad-combinat.sourceforge.net/*.

1. Examples suggest a strong connection between the two dualities. 2. A combinatorial (algebraic) interpretation of dual graded graphs.

J. NZEUTCHAP, Dual Graded Graphs and Fomin's r-correspondences associated to the Hopf Algebras of Planar Binary Trees, Quasi-symmetric Functions and Noncommutative Symmetric Functions, FPSAC'06.

S. FOMIN, Schensted Algorithms for Dual Graded Graphs, J. Alg. Comb. 4 (1995), 5-45.