

Meeting: 1001, Evanston, Illinois, SS 24A, Special Session on Hopf Algebras at the Crossroads of Algebra, Category Theory, and Topology

1001-16-347 **Mitja Mastnak***, Department of Mathematics and Statistics, Dalhousie University, B3H3J5
Halifax, NS, Central African Republic. *About categories of matched pairs and Singer pairs of Hopf algebras.* Preliminary report.

This is joint work with L. Grunenfelder. We study the relationship between matched pairs and Singer pairs of Hopf algebras via an adjunction between the corresponding categories. Nonabelian cases are considered in detail. (Received August 31, 2004)