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)