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Andrea Jedwab* (jedwab@usc.edu). *An indicator-type invariant for non semisimple Hopf algebras.* Preliminary report.

The Frobenius-Schur indicator has proven to be a very useful invariant in the study of semisimple Hopf algebras. We introduce an invariant for the finite dimensional irreducible representations of Hopf algebras over \mathbb{C} , which agrees with the indicator in the semisimple case and is defined using the antipode. In particular, we determine the value of this invariant for the irreducible representations of the Drinfel'd double of the Taft algebras, by looking at the projection of the double onto $u_q(sl_2)$. (Received March 10, 2008)