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**Martin Lorenz\*** ([lorenz@temple.edu](mailto:lorenz@temple.edu)), Department of Mathematics, 1805 N. Broad Street, Philadelphia, PA 19122. *Some applications of Frobenius algebras to Hopf algebras*. Preliminary report.

We will discuss a unified ring theoretic approach, based on the theory of Frobenius algebras, to a variety of results on Hopf algebras. These include the so-called class equation, the determination of the semisimplicity locus of the Grothendieck ring, and a non-vanishing result for the adjoint character. (Received January 25, 2010)