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Siyu Liu*, siyu@comm.utoronto.ca, and **Felice Manganiello** and **Frank R Kschischang**. *Skew Polynomials in Coding Theory*.

Skew polynomials are a noncommutative generalization of ordinary polynomials that, in recent years, have found applications in coding theory and cryptography. In this talk, we will present an overview of the recent advances in the applications of skew polynomials to coding theory. Some of our recent results, including skew interpolation and evaluation, will be highlighted. Ongoing works and potential new areas of research will be discussed. (Received September 17, 2014)