Speakers: Elena Fuchs and Kristin Lauter

Title: Cryptographic hash functions from Markoff triples

Abstract: In this talk, we discuss how mod-p Markoff graphs can be used to construct cryptographic hash functions. We present potential path finding algorithms in these graphs, which will also lead to questions about lifts of mod p solutions to the Markoff equation will come up as well. This is joint work with M. Litman and A. Tran, as well as with E. Bellah and L. Ye.