

**Speaker:** Carlos Moreno

**Title:** Ramifications old and new of the Quadratic Reciprocity Law

**Abstract:** Exponential sums have played a significant role in the proof of the quadratic reciprocity law since the time of Gauss. We shall discuss various topics associated with the analytic proofs as developed by Hilbert, Hecke and Siegel. A version of the reciprocity law due to Dwork and Langlands will be described. A technical lemma concerning the evaluation of root numbers will also be discussed.