

**Speaker:** Dan Dix (USC)

**Title:** Ergodic Decomposition of Flows

**Abstract:** The sigma algebra of Borel subsets of a Polish space which are invariant under a flow induces a disintegration of a flow-invariant Borel probability measure, which is also a Choquet decomposition of that invariant probability measure as a generalized convex combination of extreme points of the convex set of all flow-invariant Borel probability measures. The proof that the fiber measures of the disintegration are flow-invariant and extreme points (i.e. ergodic) will be outlined.