Speaker: Natasha Dobrinen

Title: Ultrafilters with complete combinatorics over L(R).

Abstract: Building on work of Woodin and Todorcevic, DiPrisco, Mijares, and Nieto proved that, in the presence of a supercompact cardinal, every ultrafilter which is selective with respect to some topological Ramsey space has complete combinatorics over L(R). We present a collection of ultrafilters with weak partition properties, some from the literature (due to Baumgartner and Taylor, Blass, and others) and some new, which have complete combinatorics over L(R). The method of proof involves constructing new topological Ramsey spaces which are dense inside these forcings.