## Title: Random-turn Maker-Breaker games Gal Kronenberg Tel Aviv University

Abstract: We consider random-turn Maker-Breaker games, firstly introduced by Peres, Schramm, Sheffield and Wilson in 2007. A *p*-random-turn Maker-Breaker game is the same as an ordinary Maker-Breaker game, except that instead of alternating turns, the players toss a coin before each turn to decide the identity of the next player to move (the probability of Maker to move is p). We analyze the random-turn version of several classical games such as the game Box (introduced by Chvátal and Erdős in 1987) and its balancing version, the Hamilton cycle game, the game of creating a copy of a fixed graph H (both played on the edge set of  $K_n$ ), etc. For each such game we establish the asymptotic order of the minimum value of p for which Maker typically wins the game.

Joint work with: Asaf Ferber and Michael Krivelevich.