1121-05-230 **Amanda Redlich*** (aredlich@bowdoin.edu). *Strategic graph decompositions.*

Motivated by recent work by Kolaitis and Kopparty on zero-one laws for random graphs, I define a new type of graph decomposition. This approach to decomposition proves an extension of the Kolaitis-Kopparty paper. It can also be thought of as a combinatorial game for two players. In this talk I present winning strategies for the simplest version of the game, connect these strategies to random graphs, and indicate potential extensions to more complex variations. Joint work with Bobby DeMarco. (Received July 18, 2016)