1131-13-93 **Christopher Francisco*** (chris.francisco@okstate.edu), Department of Mathematics, 401 MSCS, Oklahoma State University, Stillwater, OK 74078, and **Jeffrey Mermin** and **Jay Schweig**. *Borel ideals and their surprising appearance in discrete geometry.*

While Borel ideals have been studied for a long time, investigating them from the perspective of Borel generators rather than the usual minimal monomial generating set has led to some interesting new results. Adopting this approach, we describe how certain Borel ideals arise in some counting questions in discrete geometry. This is joint work with J. Mermin and J. Schweig. (Received July 06, 2017)