1131-14-96 **Dan Bates*** (bates@math.colostate.edu), Karleigh Cameron and Margaret Cheney. Numerical algebraic geometry for geolocation. Preliminary report.

Given an RF emitter and multiple receivers, there are various formulations of polynomial systems that can be used to recover the emitter location from received measurements. In this talk, we describe some recent advances in approaching this problem with various techniques from numerical algebraic geometry. (Received July 06, 2017)