1146-92-140        **Alan Veliz-Cuba\*** (`avelizcuba1@udayton.edu`). *Reverse engineering of discrete models using algebraic geometry.* Preliminary report.

The reverse engineering or network inference problem consists in reconstructing the topology or wiring diagram of a dynamic network from data. In this talk I will present a framework and algorithm to study the network inference problem for discrete models. First, previous results about time-series data will be summarized. Then, I will present preliminary results about the problem of inferring network structure from steady-state data. (Received January 16, 2019)