

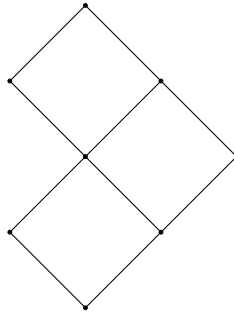
Student Research Talks (StReeTs)

Mason Experimental Geometry Lab (MEGL)

Genetic Mutations and Conjunctive Bayesian Networks

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Abstract

A conjunctive Bayesian network (CBN) is a graphical model, described by a partially ordered set, that describes the accumulation of events bound by that order. We will discuss how a CBN can interpret evolution in a population, specifically how a virus mutates in response to drug treatment. We will apply tools in algebraic combinatorics to assess risk of mutation and success of a drug regime and discuss the usefulness of different ring structures in understanding the information.

Date: Friday, November 10, 2017

Time: 2:30pm–3:30pm

Place: Exploratory Hall 4106

Pizza and soda will be served at the presentation.

For further information or for special accommodations, please contact Sean Lawton via email at seanlawton@gmail.com or drop by the MEGL.