

“Our minds are finite, and yet even in these circumstances of finitude we are surrounded by possibilities that are infinite, and the purpose of life is to grasp as much as we can out of that infinitude.”

— A.N. Whitehead

The Trivial Notions Seminar
Proudly Announces

Posets and finite spaces

A talk by
Jun Hou Fung

Abstract

In the first part of this talk, I will introduce the dictionary between the topology of (finite) Alexandroff spaces and preorders on their underlying sets. We will also discuss the connection between posets and simplicial complexes, as well as a few other categories of interest in homotopy theory. This study of finite topological spaces was initiated by McCord and Stong in the 60s. In the second part, I will talk about a conjecture of Quillen’s from 1978 about nontrivial normal p -subgroups of a finite group, and Stong’s reformulation of this conjecture in terms of the equivariant homotopy theory of finite spaces.

Thursday, March 10th, at 12:00 pm
Science Center 232