**DANIEL VALLIERES**, California State University - Chico Iwasawa theory for branched  $\mathbb{Z}_p$ -towers of finite graphs

In this talk, we will explain that the analogue of Iwasawa's asymptotic class number formula in graph theory can be extended to  $\mathbb{Z}_p$ -towers of finite connected graphs that are not necessarily unramified. This is joint work with Rusiru Gambheera.