

---

**ZANDER KARAGANIS**, University of Toronto  
*Branching rules for  $SL(2, F)$  for  $F$  a 2-adic field*

Giving branching rules consists of describing the decomposition of the restriction of an irreducible representation  $\pi$  of a group  $G$  to a subgroup  $K$ . Here, let  $G = SL_2(F)$  and let  $K$  be a maximal compact open subgroup. If  $F$  is  $p$ -adic with  $p$  odd, these rules are known and uniform. In this talk, we present the astounding arithmetic complexity that arises in the open case of  $F$  a 2-adic field, even for  $\pi$  a depth zero irreducible supercuspidal representation. This is joint work with Dr. Monica Nevins.