

# Philadelphia Area Number Theory Seminar

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The congruence ideal associated to  $p$ -adic families of Yoshida lifts

**Abstract:** This talk will be a report of work in progress with Ming-Lun Hsieh. Just as in classical Iwasawa theory where one studies congruences involving Hecke eigenvalues associated to Eisenstein series, we study congruences involving  $p$ -adic families of Hecke eigensystems associated to the space of Yoshida lifts of two Hida families. Our goal is to show that under suitable assumptions, the characteristic ideal of a dual Selmer group is contained inside the congruence ideal.

**Thursday, September 30, 2021**

**3:25 – 4:45 PM**

Bryn Mawr College

Department of Mathematics

Park Science Center **245**

Informal refreshments at 3:10PM in Park 361