**Philadelphia Area Number Theory Seminar**

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**Explicit period formulas for totally real p-adic L-functions, a la Cassou-Nogues**

**Abstract:**  
The p-adic Hecke L-functions over totally real fields are known to exist by works of Deligne-Ribet, Cassou-Nogues and Barsky in the late 70s, albeit the whole picture of which is still clouded to this day. In this talk I will report my recent work on the explicit determination of the incarnate p-adic measures that generalizes the p-adic Bernoulli distributions, and its applications in the Gross-Stark conjecture and totally real Iwasawa invariants.

**Tuesday, September 6, 2022**  
3–5 PM  
Swarthmore College  
Department of Mathematics and Statistics  
Science Center, Room 149  
Informal refreshments at 3PM – Talk at 3:30PM