ALGEBRA AND NUMBER THEORY
SEMINAR

P-adic Properties of Modular Forms of Half-integral Weight

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Abstract: Motivating with some classical examples, I will explain why congruences are germane to the theory of modular forms and how this "p-adic" point of view has borne fruit in the integral weight setting. As many quantities of arithmetic significance occur in half-integral weight, it is natural to inquire about analogues of the p-adic theory in that world. I will explain a number of aspects of my work on p-adic modular forms of half-integral weight and some of their consequences for congruences.

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