

NUMBER THEORY SEMINAR

Congruences concerning Jacobi polynomials and Apery-like formulae

Tatiana Hessami Pilehrood

Shahrekord University and Dalhousie University

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WHERE: Chase 227

ABSTRACT:

In this talk we will discuss how to obtain congruences for finite central binomial sums arising from the truncation of Apery-type series for zeta values. Applying functional properties of Jacobi polynomials we prove some polynomial congruences. We also establish a generalization of Morley's congruence for the central binomial coefficient $\binom{p-1}{(p-1)/2}$, where $p > 5$ is a prime, to modulo p^6 . (Joint work with Kh. Hessami Pilehrood and R. Tauraso.)

Any questions, please e-mail: rnoble@mathstat.dal.ca.