

NUMBER THEORY SEMINAR

*Gauss factorials, Jacobi primes, and prime factors of
generalized Fermat numbers*

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Dublin, Ireland

WHEN: Wed 19 Mar. 2014, 3:30 p.m.

WHERE: Chase 319

ABSTRACT:

In a just published paper at Acta Mathematica Hungarica, Karl Dilcher and I introduced the notion of a Gauss prime; these primes play an absolutely fundamental role in connection with our study of 'quarter Gauss factorials'. In a future paper we will introduce the notion of a Jacobi prime, and analogously these primes play the same (but much more complex) role with respect to one-third and one-sixth Gauss factorials. In this talk I shall attempt to convey some of the basic ideas. No previous knowledge of Gauss factorials will be presumed.

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