

NUMBER THEORY SEMINAR

Elementary Non Commutative Algebra and Special Functions

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WHEN: Thu 21 Aug. 2014, 2:30 p.m.

WHERE: Chase 319

ABSTRACT:

Special functions such as orthogonal polynomials appear naturally in the context of combinatorics, where their coefficients can be deduced from a counting problem (see Viennot). I will show how they also appear quite naturally in the elementary context of two non-commutative operators p and q that satisfy $qp - pq = i$. Examples will be given involving the Meixner-Pollaczek polynomials and the Euler polynomials.

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