

ANALYSIS AND NUMBER THEORY SEMINAR

Zeros of Partial Sums of Power Series

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WHEN: Thu 1 Mar 2012, 11:30 a.m.

WHERE: Chase 227

ABSTRACT:

Given a power series which converges everywhere, what can we say about the zeros of the partial sums of the series? In this talk we will investigate this question from the viewpoint of asymptotic analysis. A brief overview will be given of a few (of the few) examples which have been previously studied, including the exponential function and the confluent hypergeometric functions. We'll then present a new result which partially answers the question for the Bessel functions.

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