



*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Zeros of entire solutions of second order linear differential equations

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Abstract

We consider the differential equation $w'' + Aw = 0$ and study the question when there are two linearly independent solutions with “few” zeros. After reviewing the results for a polynomial coefficient A , we discuss various results due to Bank, Laine and others dealing with the case of a transcendental entire coefficient A . We also discuss the disproof of a conjecture of Bank and Laine on the topic. This is joint work with Alexandre Eremenko.

Date: March 24, 2015 (Tuesday)

Time: 4:00 – 5:00pm

Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome