THE UNIVERSITY　　　　　**OF HONG KONG**

Institute of Mathematical Research
Department of Mathematics

Analysis Seminar

Reductions of a sine-Gordon equation in 2+1 dimensions
(Joint work with Grundland, Université de Montréal)

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Abstract

We establish all the reductions of a system of two coupled sine-Gordon equations introduced by Konopelchenko and Rogers to ordinary differential equations.

All these reductions are degeneracies of a master equation found by Chazy, which is an algebraic transform of the sixth Painlevé equation.

Date:	January 19, 2023 (Thursday)
Time:	11:00am – 12:00noon
Venue:	Room 210, Run Run Shaw Bldg., HKU

All are welcome