THE UNIVERSITY   **OF HONG KONG**

Geometry Seminar

Reduction of Gauss-Codazzi equations in three-dimensional Euclidean space to the sixth Painlevé equation

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Abstract

Since the Gauss-Codazzi equations are underdetermined (three equations in four unknowns), we first restrict them to a determined system and compute its Lie point symmetries. This allows us to find a reduction to P6 more general than that of Hazzidakis (1897). Joint work with A. Michel Grundland, CRM, Montréal.

Date:	October 21, 2013 (Monday)
Time:	3:30 – 4:30pm
Place:	Room 210, Run Run Shaw Bldg., HKU

All are welcome