THE UNIVERSITY   **OF HONG KONG**

Institute of Mathematical Research
Department of Mathematics

Geometry Seminar

Construction of Lie groupoids and Poisson groupoids

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Abstract

After recalling the notion of Lie groupoids and Lie algebroids, we introduce a blow-up construction of Lie groupoids and Poisson groupoids, which corresponds to an elementary modification of Lie algebroids and Lie bialgebroids. As an application, we construct the adjoint symplectic groupoid of a log symplectic manifold. If time permits, we will also introduce a gluing construction of Lie groupoids and use it to classify the Hausdorff symplectic groupoids of a log symplectic manifold.

Date: May 9, 2013 (Thursday)

Time: 2:30 – 3:30pm

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

All are welcome