



*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Classical and Quantum Symmetries

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Abstract

The physical reality is supposed to be genuinely quantum such that anything classical is just an approximated or a derived notion. On the other hand, classical physical theory came first and certain procedure called quantization has been adapted to mimic quantum description. The purpose of this talk is to introduce a notion of fundamental quantum symmetry and explain how the classical gauge symmetry should be regarded as derived and approximated notion from fundamental quantum symmetry. I will work with an explicit example from the familiar differential geometry of manifold.

Date: December 3, 2014 (Wednesday)

Time: 2:00 – 3:00pm

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

All are welcome