Department of Mathematics
The Chinese University of Hong Kong

數學系
香港中文大學

Joint Short Course

Department of Mathematics & Institute of Mathematical Sciences, CUHK

Heat equation and heat kernel on an arbitrary manifold

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Abstract:

In this course we are concerned with the Cauchy problem for the heat equation on an arbitrary Riemannian (or even weighted) manifold. We present different ways of constructing of the heat kernel – the minimal positive fundamental solution of the heat equation. We discuss also the properties of the heat kernel that do not depend on the geometry of the underlying manifold.

Date: 21 February 2017 (Tuesday)
          28 February 2017 (Tuesday)
          07 March 2017 (Tuesday)
          14 March 2017 (Tuesday)
Time: 10:00 a.m. – 12:00 noon
Venue: Room 222, Lady Shaw Building
          The Chinese University of Hong Kong, Shatin

All are Welcome!