
Student Geometry Seminar

國立清華大學數學系 學生幾何研討會

講題 Formal transformation between geodesic coordinate systems

講者 張華炘

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Abstract

Given an affine connection on a manifold, one has a geodesic exponential map which induces a family of geodesic coordinate systems. In this talk, we will consider a transformation between geodesic coordinate systems associated with two different choices of affine connections. We prove that the infinity jet of such a transformation is uniquely determined by an iteration equation following Fedosov's iteration techniques. The talk is based on a joint work with Hsuan-Yi Liao.