Student Geometry Seminar

國立清華大學數學系 學生幾何研討會

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講題 Morse Theory

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時間 2023.10.05 (Thu)   17:30 – 18:30

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Abstract

Morse theory gives us a way of analyzing the topology of a manifold by studying the differential functions on that manifold. In this talk, we consider a Morse function on a compact manifold, and use the Morse lemma to prove the Morse inequalities. Moreover, the Morse inequalities can be generalized to the Morse-Bott inequalities and the equivariant Morse inequalities.