
Student Geometry Seminar

國立清華大學數學系 學生幾何研討會

講題 Introduction to A-infinity algebras

講者 劉筱玫

時間 2024.12.13 (Fri) 16:45 – 18:15

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Abstract

A-infinity algebras generalize associative algebras by incorporating higher homotopies through a sequence of multilinear operations. Motivated by the desire to reconstruct a multiplication on the cochain complex from the induced operation on its cohomology, A-infinity algebras provide a natural framework for this purpose. In this talk, I will introduce the basic definition, examples and properties of A-infinity algebras. If time permits, I will also discuss a coalgebraic approach to A-infinity algebras.

