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 Brown functors of directed graphs

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時間 2025.05.27 (Tue) 16:30 - 18:00

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Abstract

In this talk, we will consider Brown functors of directed graphs --- that is, contravariant functors from the homotopy category of finite directed graphs to the category of abelian groups, satisfying the triviality axiom, the additivity axiom, and the Mayer-Vietoris axiom. Our main theorem states that such a functor is representable. In addition, I will show that the first path cohomology of directed graphs provides a nontrivial example of a Brown functor. This talk is based on joint work with Zachary McGuirk, Dang Khoa Nguyen, and Byungdo Park.

