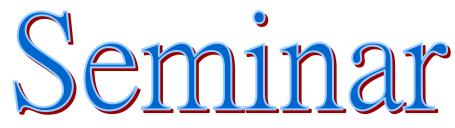


Department of Mathematics The Chinese University of Hong Kong

數學系 香港中文大學

Phone: (852) 3943 7988 • Fax: (852) 2603 5154 • Email: <u>dept@math.cuhk.edu.hk</u> (Math. Dept.) Room 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong



Representations of the Nori fundamental group and variants

Dr. Fabio Tonini

Universitá degli Studi di Firenze

<u>Abstract</u>

The Nori fundamental group scheme of a scheme *X* is a profinite group scheme that "controls" torsors over *X* under finite group schemes.

In the talk I will describe its category of representations by considering vector bundles with extra structure. I will also talk about a variant of this group, the local fundamental group scheme.

Date: 28 October 2019 (Monday)
Time: 11:15am – 12:15pm
Venue: Room 222, Lady Shaw Building, The Chinese University of Hong Kong, Shatin