



*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

On exceptional sequence of objects associated to fake projective planes

Professor Sai-Kee Yeung
Purdue University, USA

Abstract

In a recent paper, Galkin-Katzarkov-Mellit-Shinder proposed to study geometric properties of fake projective planes in terms of exceptional collection of objects, which in turn may be reduced to a problem on vanishing of certain cohomology groups. We plan to introduce the notions involved as well as a conjecture and the work of Galkin-Katzarkov-Mellit-Shinder. We would also explain an approach of Ching-Jui Lai and myself leading to results in some special cases.

Date: August 7, 2014 (Thursday)

Time: 4:15 – 5:15pm

Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome