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**The Hong Kong University of Science and Technology**

**Department of Mathematics**

**Seminar on Pure Mathematics**

**Homological approach to representations**

By

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Abstract

Motivated by Broué's abelian defect group conjecture, a block of a group algebra is connected to its local subgroup via equivalence of derived category. This in turn determines properties in their cohomologies. In this talk I will try to make sense of derived category, its equivalence, and how representations can be involved.

**Date: Friday, 10 August 2018**

**Time: 4:30p.m. - 5:30p.m.**

**Venue: Room 4475, Academic Building  
(Lifts 25, 26), HKUST**

*All are welcome!*