



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

**Department of Mathematics**

**Mathematics Colloquium**

**Low degree cohomologies of congruence  
groups**

By

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**Abstract**

We prove the vanishing of certain low degree cohomologies of some induced representations. As an application, we determine certain low degree cohomologies of congruence groups. Basic theory of continuous cohomologies, and Franke's filtration of the space of automorphic forms will be reviewed. This is a joint work with Jian-Shu Li.

**Date: Friday, 8 March 2019**

**Time: 3:00p.m. - 4:00p.m.**

**Venue: Lecture Theater F,  
Academic Building, 1/F  
(near Lifts 25 - 26), HKUST**

***All are welcome!***