



## **ICTS Colloquium**

Title : Graph entropy and the zero-error capacity of channels

Speaker: Jaikumar Radhakrishnan, Tata Institute of Fundamental Research,

Mumbai

Date: Monday, April 2, 2018

Time : 3:00 PM

Venue: Madhava Lecture Hall, ICTS Campus, Bangalore

Abstract: We will derive Hansel's inequality about graph covering

using probabilistic and information-theoretic arguments. Based on this inequality, we will show bounds on the rate at which one can

communicate across certain channels when no error is

allowed. We will derive everything from scratch. (The talk will be

based on joint work with Siddharth Bhandari, Marco Dalai and

Venkat Guruswami.)

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