



# Math Club

presents

## Derek Lacoursiere

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### Estimating Complexity from Benthic Video Transects

**Abstract:** In recent years the monitoring of coral reefs has become a priority for scientists worldwide. Since coral reefs are a vital element of benthic communities and the health of coral reefs is a particularly good measure of the impact that global warming has on our planet, it is extremely important for scientists to have up-to-date data on the health of these organisms. The collection and analysis of the data, however, is very difficult and laborious. Therefore scientists rely on sampling-based statistical methods to obtain the required information. The purpose of this project is to develop new sampling methods which are both more accurate and informative than existing methods, using computer simulation methods to test their accuracy. [This work is joint with Anthony Steigvilas, under the supervision of Dr. Daniel Ryan.]

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**Monday, November 23, 4:00pm**

**Room C1425, Abbotsford**

All students, faculty and staff are invited to attend.