

# GRADUATE SEMINAR

Xiyuan Wang

## Commutative differential graded algebras with lattices

*MSc Student supervised by Don Stanley*

Monday April 14th

10:00

Math Lounge (CW307.20)

**Abstract:** This talk is based on my master thesis. It follows my first talk. We will define an invariant called the “commutative differential graded algebra with lattice” of a topological space  $X$ . The commutative differential graded algebra with lattice encodes the information of rational homotopy type of  $X$  and the lattice structure of  $X$ . Moreover, we will define an integral Sullivan model and compute some examples.