



*Institute of Mathematical Research  
Department of Mathematics*

## MINI COURSE

# Introduction into Donaldson-Thomas theory for quivers with potential

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### Abstract

The aim of the mini lecture series is to provide a rather gentle introduction into Donaldson-Thomas theory for quivers with potential. We will demystify the rather abstract Donaldson-Thomas invariants by providing an interpretation in terms of classical intersection complexes. In particular, Donaldson-Thomas theory can be used to compute the intersection cohomology of quiver moduli spaces quite easily. This result has been obtained in a joint work with Ben Davison and Markus Reineke.

Lecture 1:	September 29, 2015 (Tuesday) 4:00 – 5:00pm
Lecture 2:	October 2, 2015 (Friday) 4:00 – 5:00pm
Lecture 3:	October 6, 2015 (Tuesday) 4:00 – 5:00pm

**Room 210, Run Run Shaw Bldg., HKU**

*All are welcome*