



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

## **ALGEBRA AND GEOMETRY SEMINAR**

### **Cousins of relative Donaldson-Thomas theory in dimension 4**

by

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#### **Abstract**

The goal of this talk is to give a few examples of moduli spaces originated from relative Donaldson-Thomas theory in dimension 4. Attempts in finding numerical invariants via these moduli spaces lead to a question of functoriality of the cohomology or K-theory of these moduli spaces. Invariants arising from the functoriality in examples will be given. The original parts of the talk are based on a project joint with Cao, and partially with Zhou.

**Date : 11 September 2024 (Wednesday)**

**Time : 4:00pm - 5:30pm**

**Venue : Room 4472 (Lifts 25/26)**

*All are Welcome!*