



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

## SEMINAR ON PURE MATHEMATICS

### Twisted S-duality

by

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#### Abstract

String theory is a framework of physics which in particular gives rise to various interesting predictions in mathematics. Some of the more interesting predictions are derived from so-called S-duality, which provides a non-trivial equivalence of two physical theories. The main aim of the talk is to explain how to mathematically understand aspects of string theory, focusing on topological strings, and discuss S-duality in the context. A large part of the talk will be devoted to providing a dictionary between string theory and mathematical objects. This talk is based on a joint work with Surya Raghavendran.

**Date** : 17 June 2021 (Thursday)

**Time** : 10:30am – 11:30am

**Zoom Meeting** : <https://hkust.zoom.us/j/9584764665> (Passcode: 3131)

*All are Welcome!*