

Department of Mathematics **The Chinese University of Hong Kong**

數學系

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Seminar GRID invariants obstruct decomposable Lagrangian cobordisms Dr. Mike Wong

Abstract

Ozsvath, Szabo, and Thurston defined several combinatorial invariants of Legendrian links in the 3-sphere using grid homology, which is a combinatorial version of link Floer homology. These, collectively called the GRID invariants, are known to be effective in distinguishing some Legendrian knots that have the same classical invariants. In this talk, we show that the GRID invariants provide an obstruction to the existence of decomposable Lagrangian cobordisms between Legendrian links. This obstruction is stronger than the obstructions from the Thurston-Bennequin and rotation numbers, and is closely related to a recent result by Golla and Juhasz. This is joint work with John Baldwin and Tye Lidman.

Louisiana State University

Date: 2 August 2018 (Thursday)

Time: 1:00pm - 2:30pm

Venue: Room 222, Lady Shaw Building,

The Chinese University of Hong Kong, Shatin

All are Welcome