



The Institute of Mathematical Sciences  
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# *Joint Harvard-CUHK-YMSC Differential Geometry Seminar*

## **Tropical disk counts**

**Abstract:** (joint with S. Venugopalan) I will describe version of the Fukaya algebra that appears in a tropical degeneration with the Lagrangian being one of the “tropical fibers”. An example is the count of “twenty-one disks in the cubic surface” (suggested by Sheridan) which is an open analog of the twenty-seven lines. As an application, I will explain why the Floer cohomology of such tropical fibers is well-defined; this is a generalization of a result of Fukaya-Oh-Ohta-Ono for toric varieties.

*By*

**Professor Christopher Woodward**

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**Date: October 20, 2021 (Wednesday)**

**Time: 9:30am – 10:30am (Hong Kong Time)**

**Zoom Link: <https://cuhk.zoom.us/j/92007309455>  
(Meeting ID: 920 0730 9455; Passcode: 20211020)**

*All are Welcome*