



Department of Mathematics  
The Chinese University of Hong Kong

For Favour of Posting

數學系  
香港中文大學

Phone: (852) 3943 7988-9 • Fax: (852) 2603 5154 • Email: dept@math.cuhk.edu.hk  
Rm. 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

## *Seminar*

# **Tau Invariants in Monopole and Instanton Floer Theories**

*by*

***(Dr. Wong C.M. Michael)***  
***(Dartmouth College)***

### Abstract:

The tau invariant in Heegaard Floer theory is a powerful concordance invariant that, for example, bounds the smooth four-genus from below. Its counterparts in monopole and instanton Floer theories each admit two rather different definitions that mirror properties of the Heegaard Floer tau. In this talk, I will outline a result that proves that those two definitions of tau agree, as a natural next step in understanding the connections between the three Floer theories for knots. This is joint work with Sudipta Ghosh and Zhenkun Li.

Date : December 15, 2021(Wednesday)  
Time : 10:00a.m. – 11:30a.m. (Hong Kong SAR)  
Zoom link :  
<https://cuhk.zoom.us/j/97610225631?pwd=MjMvSnlvUIZla1JqTUtFak14OFhBQT09>  
Meeting ID: 976 1022 5631  
Passcode : 642170

*All are Welcome*